**APPENDIX A – NOP/Initial Study**

LA COUNTY PLANNING

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# NOTICE OF PREPARATION
# OF A DRAFT ENVIRONMENTAL IMPACT REPORT

**DATE:** December 17, 2024

**TO:** State Clearinghouse, Responsible Agencies, Trustee Agencies, Organizations and Interested Parties

**SUBJECT:** Notice of Preparation of a Draft Environmental Impact Report in Compliance with Title 14, section 15082(a) of the California Code of Regulations

The County of Los Angeles ("County") is the lead agency pursuant to the California Environmental Quality Act ("CEQA") and intends to prepare an Environmental Impact Report ("EIR") for the proposed project identified below. The County has prepared this Notice of Preparation ("NOP") to provide Responsible Agencies and other interested parties with information describing the project and to identify its potential environmental effects pursuant to State requirements.

**AGENCIES:** The County requests your agency's views on the scope and content of the environmental information relevant to your agency's statutory responsibilities in connection with the proposed project, in accordance with Title 14, section 15082(b) of the California Code of Regulations. Your agency will need to use the EIR prepared by the County when considering any permits that your agency must issue, or other approval for the project.

**ORGANIZATIONS AND INTERESTED PARTIES:** The County requests your comments and concerns regarding the environmental issues associated with construction and operation of the proposed project.

**PROJECT & PERMIT(S):** Altadena Main Library Renovation Project**,** PRJ2023-000474-(5), Conditional Use Permit No. RPPL2023000666, Environmental Plan No. RPPL2024005464

**PROJECT APPLICANT:** Altadena Library District

**PROJECT LOCATION:** APN: 5840-010-900, 600 E. Mariposa Street, Altadena, CA 91001 (Figure 1)

**PROJECT DESCRIPTION:** The planned improvements at the Main include an expansion of the building footprint approximately 700 square feet, interior space reconfigurations, access improvements, seismic retrofit, and replacement of aged building infrastructure to address mechanical (elevator and heating, ventilation, and air conditioning), plumbing (including additional and accessible restrooms), and electrical and structural elements of the facility. Infrastructure improvements are expected to include some modernized Audio Visual spaces with newer technology and updated communications infrastructure and structured cabling. Upgrades to plantings and irrigation and adding outdoor functional spaces are also planned. Project features shown on Figure 2 include the following:

- New Entry/Lobby
- New Community Room Deck
- New Outdoor Reading Court
- New Delivery Loading Zone
- New Entry Wall and Signage
- New Access Ramp
- New Stairs
- Parking lot Re-surfaced and Striped
- Refurbish Existing Bridges

**Demolition**

Some demolition and grading are required to complete the Main renovation and expansion. The site is approximately 1.72 acres with 0.28-acre being disturbed for improvements. Demolition includes removal of concrete, pavement, and removal of existing turf, planters, and shrubs. Grading is designed to slope walking paths, landscapes, and other surfaces away from buildings towards on-site drainage features. Areas of pavement and concrete removal include area for the new entry/lobby along much of the south side of the Main and walkways to bridge on north side of facility. Clearing and grubbing would occur at the new outdoor reading court, new entry/lobby, near the path to the bridge on the north side, and the new Community Room Deck.

In the interior there would be some demolition to non-structural walls, doors, and stairways.

**POTENTIAL ENVIRONMENTAL EFFECTS OF THE PROJECT**

Based on a preliminary review of the proposed project consistent with section 15060 of the CEQA Guidelines, the County has determined that an EIR should be prepared for this proposed project. In addition, consistent with section 15082 of the CEQA Guidelines, the County has identified the following probable environmental effects of the project, which will be addressed in the EIR for this project:

- Air Quality
- Cultural Resource
- Energy
- Greenhouse Gas

- Noise
- Tribal Cultural Resources
- Historic Resources

The County has determined that there is not a likelihood of potentially significant effects related to the following environmental topics:

- Aesthetics
- Agricultural Resources
- Biological Resources
- Geology and Soils
- Hazards and Hazardous Materials
- Hydrology/Water Quality
- Land Use and Planning
- Mineral Resources
- Population and Housing
- Public Services
- Recreation
- Transportation
- Utilities and Service Systems
- Wildfire

The County proposes that the EIR indicate the reasons why these effects were determined not to be significant and are therefore not addressed in detail in the EIR.

**PUBLIC REVIEW PERIOD:** The County has determined to make this NOP available for public review and comment pursuant to Title 14, section 15082(b) of the California Code of Regulations. The comment period for the NOP begins on December 17, 2024 and ends on February 4, 2024.

Any comments provided should identify specific topics of environmental concern and your reason for suggesting the study of these topics in the EIR.

Please direct all written comments to the following address:

Sean Donnelly, AICP, Senior Planner
LA County Planning
Foothills Development Services Section
320 West Temple Street, 13th Floor
Los Angeles, CA 90012
Tel: 213-893-7024
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All written responses will be included as Appendices in the Draft EIR and their contents considered in accordance with State and County environmental guidelines.

**DOCUMENT AVAILABILITY:** The NOP and Initial Study are available for public review during regular business hours at LA County Planning address listed above and the following location:

• Altadena Main Library 600 E. Mariposa Street, Altadena, CA 91001

The public is also encouraged to visit LA County Planning's website to review the initial study at https://planning.lacounty.gov/environmental-review/public-notice/.

Thank you for your participation in the environmental review of this project.




**Figure 1**
Altadena Main Library Renov CEQA
Project Location and Vicinity

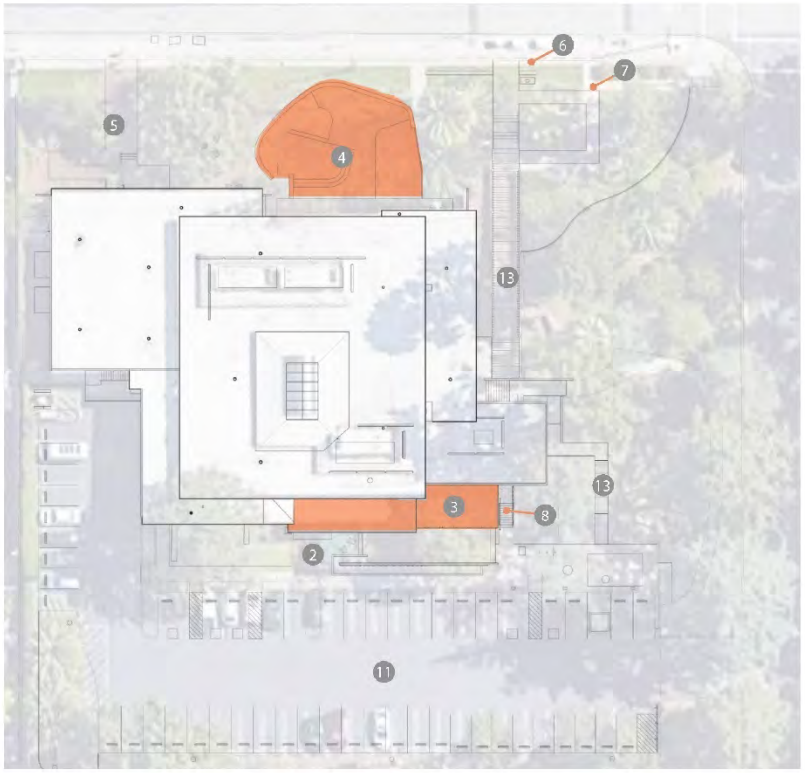


**Figure 2**
Altadena Main Library Renov CEQA
Site Plan

# DRAFT INITIAL STUDY
# Altadena Main Library Renovation Project
# Altadena, California

***Prepared for:***

**Altadena Library District**
600 E. Mariposa St.
Altadena, California 91001

***Prepared by:***

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**March 2024**

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# SECTION 1.0 – PROJECT DESCRIPTION AND ENVIRONMENTAL SETTING

## 1.1 PROJECT PURPOSE

The Altadena Library District (District) is a small public agency that is considered a California Special District. The District is a public library system that operates two libraries. According to the May 2011 estimate for cities and counties from the Demographic Research Unit, State Department of Finance the Altadena Library District provides library services to a population of approximately 51,737 people including the 43,000 residents of Altadena. The District collaborates with its community to create environments for learning and inspiration, serves as a community center, and brings residents together to share the unique history of Altadena and the San Gabriel Valley.

In 2020, ballot Measure Z was passed, establishing the Altadena Library District Community Facilities District, and authorizing a property tax levy to generate stable local funding for the repair and upgrade of the Altadena Libraries. The Main Library was built in 1967 by well-known Southern California architect Boyd Georgi and landscape architects Eriksson, Peters & Thoms were contracted to design its landscape. Since its completion, minimal changes to the building, landscaping, and the site's physical characteristics have occurred. Retaining the architectural integrity of the existing building is a key focus of this Proposed Project. Due to the age of the structure and the changing needs of the community, the library needs renovation, seismic resistance, improved access, and expansion (Proposed Project). Some phasing may occur due to funding availability; however, this document addresses the Project as a whole. The purpose of the renovation is to maximize use of the library space, improve user experience, improve seismic resilience, replace aging infrastructure, and activate outdoor space to increase visibility and engagement.

## 1.2 PROJECT BACKGROUND

The Main Library was designed by Boyd Georgi in 1967 with the landscape designed by Eriksson Peters & Thoms, Landscape Architects. Since its construction minor alterations, including replacement of entrance doors at the exterior, and the addition of a lower-level storage area and replacement of carpet and finishes on the interior, have occurred. However, most of its original landscape and building materials (mature trees and concrete planters, concrete block and stuccoed walls, fixed metal windows, steel-framed bridge with wood decking, hexagonal tile at the entry and reading court) remain. The existing parking lot has 50 spaces, two of them are handicapped accessible.

From the north, the upper footbridge provides access to the main entrance on Mariposa Avenue. Secondary access is possible from the southern parking lot along a lower footbridge and two sets of exterior concrete staircases. Both pathways lead to the main entrance. In addition, another staircase leads to the mid-level of the library. The exterior is exposed concrete block and stucco is topped by multi-level, flat roofs with closed eaves and windows floor to ceiling and grouped elevated windows to allow natural light in the building.

## 1.3 PROJECT LOCATION AND SITE CHARACTERISTICS

### 1.3.1 Location

The Main Library (the Main) is located at 600 E. Mariposa Street, Altadena, CA 91001, at the southwest corner of Santa Rosa Avenue and Mariposa Street. The community of Altadena is in unincorporated Los Angeles County at the foot of the San Gabriel Mountains (Figure 1). The Main is situated in a residential area surrounded by residences to the South and East across Santa Rosa Avenue, Altadena Senior's Center

to the West, and "Camp Mariposa" (owned by the Girl Scouts of Greater Los Angeles Chapter) to the North across E. Mariposa Street (Figure 1). The existing Main is approximately 22,000 square feet, and is built into its sloped site, appearing as a two-story building on the south end and one-story on the north end.

### 1.3.2 General Plan Designation/Zoning

The Project site's Land Use designation is Other Property Type and is zoned Single Family Residential within the Los Angeles County General Plan. Libraries are permitted within Single Family Residential zones with an approved Conditional Use Permit (CUP).

### 1.3.3 Surrounding Land Uses and Project Setting

The County of Los Angeles (County) designated land uses and zoning surrounding the Project site is provided below as Table 1.

**Table 1: Surrounding Land Uses and Zoning**

| Direction | Land Use | Zoning |
|---|---|---|
| North | Recreational | Single Family Residential (R-1) |
| South | Single Family Residence | Single Family Residential (R-1) |
| East | Single Family Residence | Single Family Residential (R-1) |
| West | Single Family Residence | Single Family Residential (R-1) |

## 1.4 PROJECT DESCRIPTION

The planned improvements at the Main include an expansion of the building footprint approximately 25,000 square feet, interior space reconfigurations, access improvements, seismic retrofit, and replacement of aged building infrastructure to address mechanical (elevator and heating, ventilation, and air conditioning [HVAC]), plumbing (including additional and accessible restrooms), and electrical and structural elements of the facility. Infrastructure improvements are expected to include some modernized Audio Visual (AV) spaces with newer technology and updated communications infrastructure and structured cabling. Upgrades to plantings and irrigation and adding outdoor functional spaces are also planned. Project features shown on Figure 2 include the following:

- New Community Room
- New Entry/Lobby
- New Maker Space Deck
- New Amphitheater
- New Staff Parking and Deliveries
- New Entry Wall and Signage
- New Stairs
- New Covered Area
- New Loading Zone
- New Driveway and Parking lot at the Rear Entrance
- Parking lot Re-surfaced and Striped
- Refurbish Existing Bridges

**Demolition**

Some demolition and grading are required to complete the Main renovation and expansion. The site is approximately 1.72 acres with 0.28-acre being disturbed for improvements. Demolition includes removal of concrete, pavement, and removal of existing turf, planters, and shrubs. Grading is designed to slope walking paths, landscapes, and other surfaces away from buildings towards on-site drainage features. Areas of pavement and concrete removal include area for the new Community Room, driveway for new staff parking, new entry/lobby along much of the north side of the Main and walkways to bridge on north side of facility. Clearing and grubbing would occur at the new staff parking lot, amphitheater, new entry/lobby, near the path to the bridge on the north side, and the new Makers Space Deck.

In the interior there would be some demolition to non-structural walls, doors, and stairways.

**Seismic Retrofit**

Current known deficiencies of the existing library include inadequate wall anchorage detailing at masonry bearing walls and inadequate horizontal reinforcing in existing masonry wall. The retrofit plan resolves these inadequacies by the addition of a new full height sheer wall at the south elevation. Larger columns are planned to replace the existing smaller ones to address performance issues with the glass panels between the low and high roofs. Shotcrete is planned at existing masonry walls to increase the shear strength.

**Interior Renovations**

The interior changes are focused on accommodating current trends in library use. Traditional spaces such as reading areas, collections, and staff areas are being added/reconfigured. A new space for fabrication lab/makers space would be placed in the area that currently accommodates the community room which is being relocated and added to the southwest corner of the building. Also, various types of meeting rooms where persons and organizations can reserve rooms to host in person and virtual meetings will be included. Additional support space such as storage, staff, and infrastructure are included in the proposed interior layout. To accommodate access, a new lobby/exhibit space allows for direct Americans with Disabilities Act (ADA) access from the parking lot. An elevator that serves all levels of the building is planned. Reading collections separately located for children, tweens, young adults, and adults have been incorporated into the design.

**Exterior Renovations**

The landscape scope includes new hardscape areas along with planting and irrigation improvements. The east side of the site along Santa Rosa Avenue would receive minor changes to the existing planting and irrigation. The primary planting palette would consist of native and adapted plantings that require low amounts of irrigation and maintenance. The existing community garden on the south side would be protected in place. The remaining area surrounding the building improvements on the north, south and west sides would receive new planting and irrigations systems. Existing trees would be protected with approximately 12 of 51 trees to be removed. Six of the 12 trees planned for removal are in poor condition.

The new pedestrian entry sequence on Mariposa would start with a new low signage wall and a new direct connection to the existing bridge. The North Patio (amphitheater) would accommodate events and daily functions and includes a sunken reading court, terraced seating, and a stage. At the southeast building corner, the Maker Space Deck extends a raised deck from the building. The new southern edge of the building would provide parking for approximately 12 bicycles to the east with a planted walkway moving

west to the new main building entrance. To the west the new Community Plaza is a 900 square foot extension of the new Community Room.

### 1.4.1 Project Construction

The Project is planned to occur in a single phase, estimated to commence in September 2024 and be completed within 18 months. The Main would be closed for public use during construction and users would be directed to utilize services at the Bob Lucas Branch Library. However, it is possible that there may be a short period of time when both the Branch and Main Library are closed during overlapping construction periods. Construction activities would take place between the hours of 7:00 a.m. to 8:00 p.m. Monday through Friday.

**Construction Equipment**

Construction equipment to be used during construction of the Project upgrades include the following items:

- Jackhammers
- Loaders
- Pick-up trucks
- Backhoes
- Water Truck
- Asphalt paver
- Concrete Mixers
- Cranes
- Nail guns
- Power drills and saws

**Staging Areas**

Construction trailers and staging areas would be located within the Project site. The staging areas would be located within the parking lot, outside of the construction zone, but within the Project site.

### 1.4.2 Project Design Features/Best Management Practices

**Project Design Features**

**PDF-1**: If Project clearing and construction must occur during the avian nesting season (February to September). A survey for active nests must be conducted by a qualified biologist no more than 2 weeks prior to the activities to determine the presence/absence, location, and status of any active nests on or adjacent to the Project site. If no active nests are discovered or identified, no further mitigation is required. In the event that active nests are discovered on-site, a suitable buffer determined by the qualified biologist (e.g., 30 to 50 feet for passerines) will be established around such active nests. No ground-disturbing activities will occur within this buffer until the biologist has confirmed that breeding/nesting is completed, and the young have fledged the nest. Limits of construction to avoid a nest site will be established in the field by a qualified biologist with flagging and stakes or construction fencing. Construction personnel will be instructed regarding the ecological sensitivity of the fenced area. The results of the survey will be documented and filed with the District within 5 days after the survey.

**Best Management Practices**

The following design standards are included as part of the Program Design Best Management Practices (BMPs) and would be applied to the Proposed Project:

- Light and Glare: All luminaries, or lighting sources, in connection with the District projects will be installed in such a manner as to minimize glare for pedestrians and drivers and to minimize light spilling onto adjacent properties.
- Cultural Resources: The District will require that the construction contractor, in the event of a cultural resource (i.e., historic or prehistoric artifact, fossilized shell, or bone) is discovered during ground-disturbing activities, stop all work within the immediate area and notify the District and that the find be evaluated by a qualified archaeologist. If the find is determined to be potentially significant, the archaeologist, in consultation with the District and contractor, will develop a treatment plan. All work in the immediate vicinity of the unanticipated discovery will cease until the qualified archaeologist has evaluated the discovery or the treatment plan has been implemented.

## 1.5 REQUIRED PERMITS AND APPROVALS

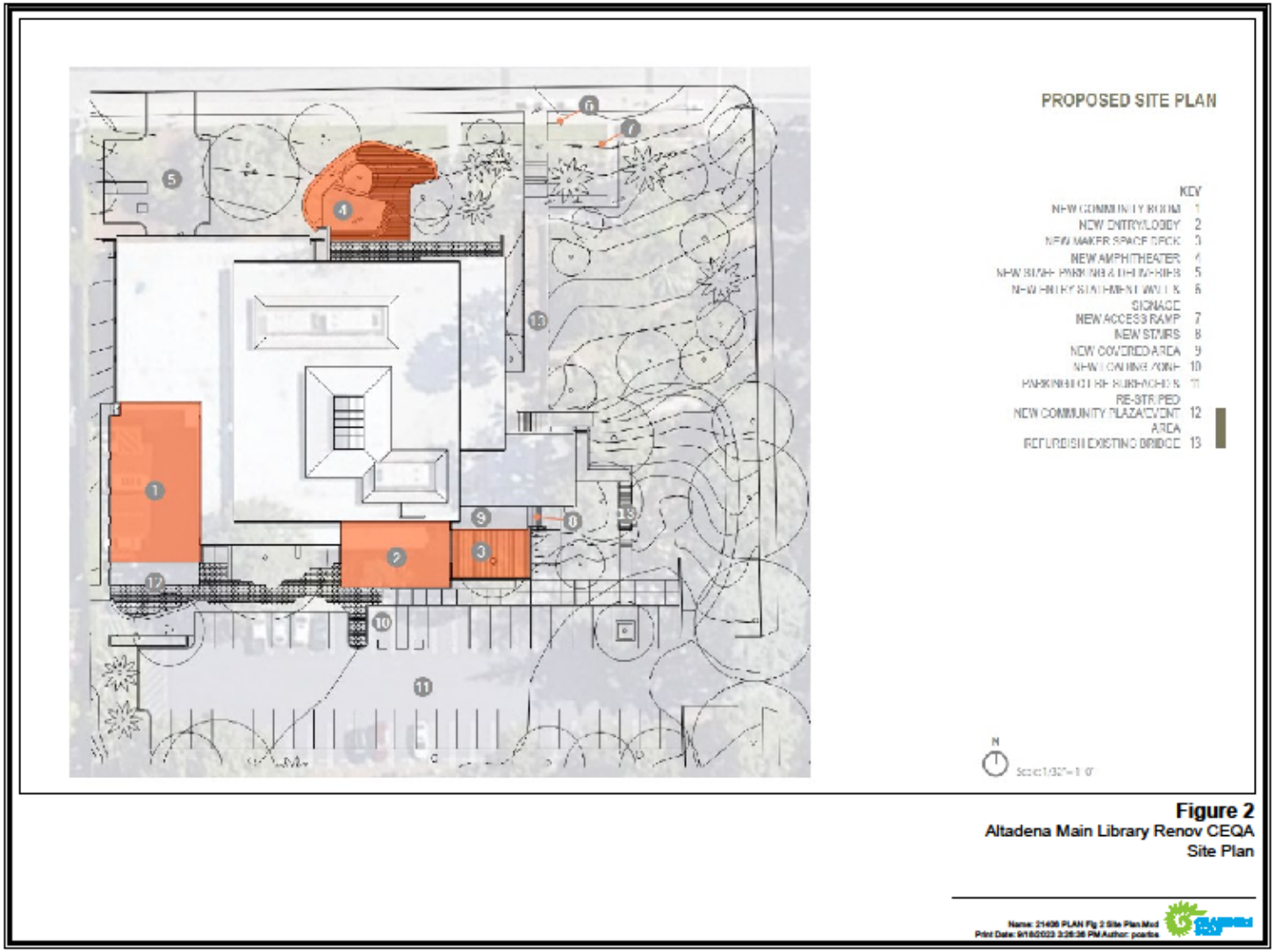
**Regional Agencies**

- Los Angeles County Department of Planning – CUP

**Figure 1: Project Vicinity Map**



**Figure 2: Project Site Plan**



## SECTION 2.0 – ENVIRONMENTAL DETERMINATION

### 2.1 ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED:

*The environmental factors checked below would potentially be affected by this project, involving at least one impact that is a "Potentially Significant Impact," as indicated by the checklists on the following pages. For each of the potentially affected factors, mitigation measures are recommended that would reduce the impacts to less than significant levels.*

| | | |
|---|---|---|
| ☐ *Aesthetics* | ☐ *Agriculture and Forestry Resources* | ☐ *Air Quality* |
| ☐ *Biological Resources* | ☐ *Cultural Resources* | ☐ *Energy* |
| ☐ *Geology /Soils* | ☐ *Greenhouse Gas Emissions* | ☐ *Hazards & Hazardous Materials* |
| ☐ *Hydrology /Water Quality* | ☐ *Land Use / Planning* | ☐ *Mineral Resources* |
| ☐ *Noise* | ☐ *Population / Housing* | ☐ *Public Services* |
| ☐ *Recreation* | ☐ *Transportation* | ☐ *Tribal Cultural Resources* |
| ☐ *Utilities /Service Systems* | ☐ *Wildfire* | ☐ *Mandatory Findings of Significance* |

### 2.2 DETERMINATION

**On the basis of this initial evaluation:**

1. I find that the project **could not** have a significant effect on the environment, and a **NEGATIVE DECLARATION** will be prepared. ☐
2. I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A **MITIGATED NEGATIVE DECLARATION** will be prepared. ☐
3. I find the proposed project **may have a significant effect** on the environment, and an **ENVIRONMENTAL IMPACT REPORT** is required. ☐
4. I find that the proposed project **may have a "potentially significant impact" or "potentially significant unless mitigated impact"** on the environment, but at least one effect (1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and (2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An **ENVIRONMENTAL IMPACT REPORT** is required, but it must analyze only the effects that remain to be addressed. ☐
5. I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or Negative Declaration pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or Negative Declaration, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required. ☐

Signature _____ Date _____

Name _____ Title _____

## SECTION 3.0 – EVALUATION OF ENVIRONMENTAL IMPACTS

1. A brief explanation is required for all answers except "No Impact" answers that are adequately supported by the information sources a lead agency cites. A "No Impact" answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A "No Impact" answer should be explained where it is based on project-specific factors as well as general standards (e.g., the project will not expose sensitive receptors to pollutants, based on a project-specific screening analysis).
2. All answers must take account of the whole action involved, including offsite as well as onsite, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.
3. Once the lead agency has determined that a particular physical impact may occur, then the checklist answers must indicate whether the impact is potentially significant, less than significant with mitigation, or less than significant. "Potentially Significant Impact" is appropriate if substantial evidence exists that an effect may be significant. If one or more "Potentially Significant Impact" entries are marked when the determination is made, an EIR is required.
4. "Negative Declaration: Less Than Significant With Mitigation Incorporated" applies where the incorporation of mitigation measures has reduced an effect from "Potentially Significant Impact" to a "Less Than Significant Impact." The lead agency must describe the mitigation measures and briefly explain how they reduce the effect to a less than significant level (mitigation measures from earlier analyses may be cross-referenced).
5. Earlier analyses may be used where, pursuant to the tiering, program EIR, or other CEQA process, an effect has been adequately analyzed in an earlier EIR or negative declaration. Section 15063(c)(3)(D). In this case, a brief discussion should identify the following:
    a. Earlier Analysis Used. Identify and state where they are available for review.
    b. Impacts Adequately Addressed. Identify which effects from the above checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.
    c. Mitigation Measures. For effects that are "Less than Significant with Mitigation Measures Incorporated," describe the mitigation measures which were incorporated or refined from the earlier document and the extent to which they address site-specific conditions for the project.
6. Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g., general plans, zoning ordinances). Reference to a previously prepared or outside document should, where appropriate, include a reference to the page or pages where the statement is substantiated.
7. Supporting Information Sources: A source list should be attached, and other sources used, or individuals contacted should be cited in the discussion.
8. The explanation of each issue should identify:
    a. The significance criteria or threshold, if any, used to evaluate each question; and
    b. The mitigation measure identified, if any, to reduce the impact to less than significant.

**Note: Instructions may be omitted from final document.*

## SECTION 4.0 – CHECKLIST OF ENVIRONMENTAL ISSUES

### 4.1 AESTHETICS

| 1. | AESTHETICS. Except as provided in Public Resources Code Section 21099, would the project: | Potentially Significant Impact | Less than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|---|
| (a) | Have a substantial adverse effect on a scenic vista? | ☐ | ☐ | ☒ | ☐ |
| (b) | Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway? | ☐ | ☐ | ☒ | ☐ |
| (c) | Substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality? | ☐ | ☐ | ☒ | ☐ |
| (d) | Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area? | ☐ | ☐ | ☒ | ☐ |

#### 4.1.1 Impact Analysis

*a) Would the project have a substantial adverse effect on a scenic vista?*

**Less Than Significant Impact.** The Proposed Project site is located in an urbanized residential area in the unincorporated community of Altadena. The Project site is fully developed and is surrounded by residential uses. The San Gabriel Mountains ridgelines are in close proximity to the Proposed Project site and are recognized as significant ridgeline within the Los Angeles County General Plan (County 2022). The proposed library expansion, interior upgrades, and exterior improvements would largely occur within the footprint of the existing facility. Some of the upgrades would include alterations to the exterior of the existing building; however, these upgrades would have no impact on scenic vistas, as the library will remain a two-story structure built into the existing slope of the Project site. Therefore, implementation of the Proposed Project would result in a less than significant impact associated with scenic vistas.

*b) Would the project substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?*

**Less Than Significant Impact.** The nearest State of California (State) highways in the vicinity of the Proposed Project site are Interstate 210 (I-210) and California State Highway 134 (Google Earth 2023). I-210 runs approximately 2 miles west of the site, Highway 134 is located 2.7 miles southwest of the site. Although portions of Interstate I-210 are classified as eligible for State scenic highway designation, the section nearest the Proposed Project site is not identified as being officially designated (California Department of Transportation [Caltrans] 2018). Due to the location of the Proposed Project over a mile to the northeast and no change in the existing height of the building, a less than significant impact would occur.

c) *Would the project Substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?*

**Less Than Significant Impact.** The Proposed Project activities include reconfiguration of the library, interior and exterior improvements, and the addition of an amphitheater and exterior reading court for the library. The Project site is zoned as Single Family Residential under the County of Los Angeles Zoning Map (County 2023). The immediate surrounding areas are zoned as Residential. The Project activities as proposed would not conflict with existing zoning or applicable regulations; they would include interior work within the existing building along with landscaping improvements and exterior upgrades. The visual character of the Proposed Project site would be minimally altered to retain the existing design features of the building and original landscaping. The exterior of the buildings would not degrade public view of the site and its surroundings as a result of the improvements and modification. The intent of the Project is to retain the visual character of the library, repair and modernize infrastructure, include additional community spaces, and improve access. Thus, implementation of the Proposed Project would result in less than significant impacts associated with visual character or quality.

d) *Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?*

**Less Than Significant Impact.** The Proposed Project site currently contains security lighting, parking lighting, indoor lighting, and adjacent street lighting. Lighting at the Main is currently installed to minimize glare for pedestrians and drivers, and to minimize spillover light. The District would be required to implement Altadena Community Standards District design standards established to ensure that expanded structures are compatible with the characteristics of surrounding residential neighborhoods, protecting the light, air, and privacy of existing single-family residences from negative impacts while providing certain flexibility within residential areas (County 2023a). These standards would be applied towards lighting improvements associated with the Project activities. Therefore, implementation of the Proposed Project would result in less than significant impacts associated with new sources of light or glare.

## 4.2 AGRICULTURE & FORESTRY RESOURCES

| 2. | **AGRICULTURE & FOREST RESOURCES. (In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Department of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment project; and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. Would the project:** | **Potentially Significant Impact** | **Less than Significant With Mitigation Incorporated** | **Less Than Significant Impact** | **No Impact** |
|---|---|---|---|---|---|
| (a) | Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to nonagricultural use? | ☐ | ☐ | ☐ | ☒ |
| (b) | Conflict with existing zoning for agricultural use, or a Williamson Act contract? | ☐ | ☐ | ☐ | ☒ |
| (c) | Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))? | ☐ | ☐ | ☐ | ☒ |
| (d) | Result in the loss of forest land or conversion of forest land to non-forest use? | ☐ | ☐ | ☐ | ☒ |
| (e) | Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to nonagricultural use or the conversion of forest land to non-forest use? | ☐ | ☐ | ☐ | ☒ |

### 4.2.1 Impact Analysis

*a) Would the project convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to nonagricultural use?*

**No Impact**. The Project site has been identified as Urban and Built-up Land as shown on the Department of Conservation's (DOC's) Important Farmland Finder (DOC 2018). The Project site is zoned R-1 (Single Family Residence). Implementation of the Project would not convert Prime Farmland, Unique Farmland or Farmland of Statewide Importance. Therefore, no impact would occur.

*b) Would the project conflict with existing zoning for agricultural use, or a Williamson Act contract?*

**No Impact**. As noted in previous response 4.2.1 a), no areas are zoned for agricultural use on or near the Project site. The immediate surrounding areas are zoned as Residential. Additionally, Los Angeles County does not contain any areas that participate in Williamson Act contracts (DOC 2022b). Therefore, implementation of the Project would not result in an impact associated with Williamson Act lands or agricultural zoning.

*c) Would the project conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?*

**No Impact.** No forest land or timberland is present in or around the Project site of the Main. The proposed building expansion, building upgrades, and addition of an amphitheater, reading court and parking would result in removal of existing turf, planters, and shrubs. However, exterior renovations would not conflict with existing zoning for forest land. Therefore, no impact would occur.

*d) Would the project result in the loss of forest land or conversion of forest land to non-forest use?*

**No Impact.** The Project site does not include any forest land. Even though ornamental trees exist on the Project site, the proposed facility renovation, library expansion, amphitheater and reading court would only result in removal of existing turf, planters, trees, and shrubs on-site. However, the Project would add additional landscaping and would use drought-tolerant landscaping. Therefore, implementation of the Project would not result in an impact related to forest land or the conversion of forest land to non-forest use.

*e) Would the project involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to nonagricultural use or the conversion of forest land to non-forest use?*

**No Impact.** As noted in the previous responses 4.2.1 a) through d), the Project site and surrounding properties do not contain any farmland of importance or forest land. Therefore, implementation of the Project would not result in any impact associated with conversion of farmland to non-agricultural use or forest land to non-forest land.

## 4.3 AIR QUALITY

| 3. | AIR QUALITY. Where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to make the following determinations. Would the project: | Potentially Significant Impact | Less than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|---|
| (a) | Conflict with or obstruct implementation of the applicable air quality plan? | ☐ | ☐ | ☒ | ☐ |
| (b) | Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard? | ☐ | ☐ | ☒ | ☐ |
| (c) | Expose sensitive receptors to substantial pollutant concentrations? | ☐ | ☐ | ☒ | ☐ |

| 3. | **AIR QUALITY. Where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to make the following determinations. Would the project:** | **Potentially Significant Impact** | **Less than Significant With Mitigation Incorporated** | **Less Than Significant Impact** | **No Impact** |
|---|---|---|---|---|---|
| (d) | Result in other emissions, such as those leading to odors adversely affecting a substantial number of people? | ☐ | ☐ | ☒ | ☐ |

### 4.3.1 Environmental Setting

The Proposed Project site is located within the unincorporated community of Altadena in central Los Angeles County. The Proposed Project site is located within the South Coast Air Basin (SCAB), and air quality regulation is administered by the South Coast Air Quality Management District (SCAQMD). The SCAQMD implements the programs and regulations required by the federal and State Clean Air Acts.

**Atmospheric Setting**

Air quality is a function of both the rate and location of pollutant emissions under the influence of meteorological conditions and topographical features. Atmospheric conditions such as wind speed, wind direction, and air temperature gradients interact with physical features of the landscape to determine their movement and dispersal and, consequently, their effect on air quality. The combination of topography and inversion layers generally prevents dispersion of air pollutants in the SCAB.

The climate of the SCAB is influenced by the semi-permanent high-pressure zone of the eastern Pacific, which results in a mild climate tempered by cool sea breezes. Although the SCAB has a semiarid climate, the air near the surface is typically moist due to the presence of a shallow marine layer. Except for infrequent periods when dry air is brought into the basin by offshore winds, the ocean effect is dominant. Periods of heavy fog are frequent, and low stratus clouds, often referred to as “high fog,” are a characteristic climate feature. Average temperatures measured at Altadena Air Quality Monitoring Station, which is the nearest monitoring station to the Proposed Project site (WRCC 2016), range from an average low of 42.3 degrees Fahrenheit (°F) in January to an average high of 86.8 °F in August. The average minimum temperature is 50°F and the average maximum temperature is 74.1°F. Rainfall averages approximately 22.00 inches a year, with most annual rainfall coming from the fringes of mid-latitude storms from late October to early April, with summers being almost completely dry.

Winds are an important parameter in characterizing the air quality environment of a project site because they determine the regional pattern of air pollution transport and control the rate of dispersion near a source. Daytime winds in the SCAB are usually light breezes from off the coast as air moves regionally onshore from the cool Pacific Ocean. These winds are usually the strongest in the dry summer months. Nighttime winds in the SCAB result from the drainage of cool air off the mountains to the east, and they occur more often during the winter months and are usually lighter than the daytime winds. Between the periods of dominant airflow, periods of air stagnation may occur, both in the morning and evening hours. Whether such a period of stagnation occurs is one of the critical determinants of air quality conditions on any given day.

During the winter and fall months, surface high-pressure systems north of the SCAB, combined with other meteorological conditions, can result in strong winds from the northeast called “Santa Ana winds.” These winds normally have durations of a few days before predominant meteorological conditions are

reestablished. The highest wind speed typically occurs during the afternoon due to daytime thermal convection caused by surface heating. This convection brings about a downward transfer of momentum from stronger winds aloft. It is common to have sustained winds of 60 miles per hour with higher gusts during a Santa Ana wind event.

**Regulatory Setting**

The Proposed Project site lies within the SCAB, managed by the SCAQMD. National Ambient Air Quality Standards (NAAQS) and California Ambient Air Quality Standards (CAAQS) have been established for the following criteria pollutants: carbon monoxide (CO), ozone ($O_3$), sulfur dioxide ($SO_2$), nitrogen dioxide ($NO_2$), inhalable particulate matter ($PM_{10}$), fine particulate matter ($PM_{2.5}$), and lead. The CAAQS also set standards for sulfates, hydrogen sulfide, and visibility.

Areas are classified under the federal Clean Air Act as either "attainment" or "nonattainment" areas for each criteria pollutant, based on whether the NAAQS have been achieved. Attainment relative to the State standards is determined by the California Air Resources Board (CARB). The SCAB has been designated by the federal Environmental Protection Agency (EPA) as a nonattainment area for $O_3$ and suspended particulates ($PM_{2.5}$). Currently, the SCAB is in attainment with the ambient air quality standards for CO, $SO_2$, $PM_{10}$, and $NO_2$. The SCAB is designated as partial nonattainment for lead, based on two source-specific monitors in Vernon and in the City of Industry that are both near battery recycling facilities.

The EPA has designated the SCAB as extreme nonattainment for the 8-hour average ozone standard. On October 1, 2015, the EPA instituted the 8-hour ozone NAAQS to 0.070 ppm, effective December 28, 2015, retaining the same form as the previous 1997 and 2008 standards. The 2008 ozone NAAQS are a primary focus of the 2016 Air Quality Management Plan (AQMP).

Additionally, the EPA has designated the SCAB as nonattainment for $PM_{2.5}$. In 1997, the EPA established standards for $PM_{2.5}$ (particles less than 2.5 micrometers), which were not implemented until March 2002. $PM_{2.5}$ is a subset of the $PM_{10}$ emissions and whose standards were developed to complement the $PM_{10}$ standards that cover a full range of inhalable particle matter. For the $PM_{10}$ health standards, the annual $PM_{10}$ standard was revoked by the EPA on October 17, 2006, and the 24-hour average $PM_{10}$ nonattainment status was re-designated to attainment (maintenance) on July 26, 2013.

The 2012 AQMP provides measures to reduce $PM_{2.5}$ emissions to within the federal standard by 2015. On January 25, 2013, the CARB approved the 2012 AQMP that was prepared per the federal Clean Air Act requirements to show attainment of the $PM_{2.5}$ standard by the revised date of 2014. The 2012 AQMP builds upon the approaches taken in the 2007 AQMP utilized to reduce $PM_{2.5}$ emissions in the SCAB. On December 14, 2012, the EPA revised the primary annual $PM_{2.5}$ NAAQS from 15 micrograms per cubic meter ($\mu g/m^3$) to 12 $\mu g/m^3$. The 2016 AQMP includes implementation strategies to meet the revised $PM_{2.5}$ standard.

The SCAB has been designated by CARB as a nonattainment area for $O_3$, $NO_2$, $PM_{10}$, $PM_{2.5}$, and lead. Currently, the SCAB is in attainment with the State ambient air quality standards for CO, $SO_2$, and sulfates and is unclassified for visibility-reducing particles and hydrogen sulfide. The 2007, 2012, and 2016 AQMPs provide measures to meet the State standards for $O_3$, $NO_2$, $PM_{10}$, and $PM_{2.5}$.

Table 2 presents the designations and classifications applicable to the Proposed Project area.

**Table 2: Designations/Classifications for the Project Area**

| Pollutant | Averaging Time Standard | National Standards Attainment Date | California Standards |
|---|---|---|---|
| Ozone ($O_3$) | 1-Hour (1979) (0.12 ppm) | Nonattainment (Extreme) 2/26/2023 | Nonattainment |
| | 8-Hour (1997) (0.08 ppm) | Nonattainment (Extreme) 6/15/2024 | |
| | 8-Hour (2008) (0.075 ppm) | Nonattainment (Extreme) 7/20/2032 | |
| | 8-Hour (2015) (0.07 ppm) | Pending – Expect Nonattainment beyond 2032 | Pending |
| Carbon Monoxide (CO) | 1-Hour (35 ppm) 8-Hour (9 ppm) | Attainment (Maintenance) 6/11/2007 (attained) | Attainment |
| Nitrogen Dioxide ($NO_2$) | 1-Hour (100 ppb) | Unclassifiable/Attainment Attained | Attainment |
| | Annual (0.053 ppm) | Attainment (Maintenance) 9/22/1998 | |
| Sulfur Dioxide ($SO_2$) | 1-Hour (75 ppb) | Designation Pending/ Pending | Attainment |
| | 24-Hour (0.14 ppm) Annual (0.03 ppm) | Unclassifiable/Attainment 3/19/1979 (attained) | |
| Particulate Matter ($PM_{10}$) | 24-Hour (150 µg/$m^3$) | Attainment (Maintenance) 7/26/2013 | Nonattainment |
| Particulate Matter ($PM_{2.5}$) | 24-Hour (2006) (35 µg/$m^3$) | Nonattainment 12/14/2014 | Nonattainment |
| | Annual (2012) (12.0 µg/$m^3$) | Nonattainment 4/5/2015 | |
| | Annual (1997) (15.0 µg/$m^3$) | Attainment (final determination pending) 4/5/2015 (attained 2013) | Attainment |
| Lead (Pb) | 3-Months Rolling (0.15 µg/$m^3$) | Nonattainment (Partial) 12/31/2015 | Nonattainment |

Obtained from http://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/naaqs-caaqs-feb2016.pdf?sfvrsn=14

### 4.3.2 Impact Analysis

*a) Would the project conflict with or obstruct implementation of the applicable air quality plan?*

**Less Than Significant Impact.** The purpose of the AQMP is to provide direction that brings an area into compliance with federal and State air quality standards. The Proposed Project involves exterior and interior work on the Main. The proposed interior space reconfigurations, access and parking

improvements, seismic retrofit, replacement of aged building infrastructure (HVAC, elevator, plumbing, and electrical) and landscaping activities would require minor amounts of grading and demolition, and these activities would not emit large volumes of emissions produced from construction equipment. The Proposed Project would not result in a substantial amount of emissions because the construction emissions would be temporary and the amount of construction equipment that on-site would be minimal in comparison to larger demolition or construction projects in the County. Operational emissions associated with the Proposed Project would be similar to existing conditions as the library would continue to operate in the same manner. Therefore, implementation of the Proposed Project would result in a less than significant impact associated with the AQMP.

b) *Would the project result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?*

**Less Than Significant Impact**. As noted in previous response 4.3.2 a), implementation of the Proposed Project would not result in a substantial amount of emissions during construction due to its temporary nature and the minimal amount of construction equipment required. Operational emissions associated with the Proposed Project would remain similar to existing conditions, as the library would continue to operate in the same manner without an increase in users. Therefore, implementation of the Proposed Project would result in less than significant impacts associated with air quality standards or air quality violations.

c) *Would the project expose sensitive receptors to substantial pollutant concentrations?*

**Less Than Significant Impact.** During construction, the Proposed Project would use various pieces of construction equipment, including diesel equipment which would result in the presence of diesel particulate matter on the Project site. Additionally, as stated in previous response 4.3.2 a) and b), the proposed construction activities would be short term and would not use a significant amount of equipment for long durations. The Proposed Project involves interior and exterior work including new hardscape areas along with planting and irrigation improvements, removal of 12 of the 51 trees, parking for approximately 12 bicycles, new staff parking lot, a planted walkways moving west to the new main building entrance, various interior improvements, a new Community Plaza (an extension of the new Community Room), and the creation of amphitheater and a reading court on the exterior of the building. While there would be indirect temporary exposure to sensitive receptors, concentration amounts would not be in significant quantities in comparison to larger construction projects, and the duration would be short. Impacts would be less than significant.

d) *Would the project result in other emissions, such as those leading to odors adversely affecting a substantial number of people?*

**Less Than Significant Impact.** Sources of odors associated with the Proposed Project would be from diesel equipment used during construction and uses of paints and solvents. As discussed in previous response 4.3.2 c), construction activities would be short term. There are no extensive grading or demolition activities on-site that would result in substantial emissions. Exhaust odors from diesel engines may be considered offensive to some individuals; however, diesel emissions would not be ongoing, and any emissions would disperse rapidly including paints and solvents. Therefore, implementation of the Proposed Project would result in a less than significant impact associated with objectionable odors.

## 4.4 BIOLOGICAL RESOURCES

| 4. | BIOLOGICAL RESOURCES. Would the project: | Potentially Significant Impact | Less than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|---|
| (a) | Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service? | ☐ | ☐ | ☒ | ☐ |
| (b) | Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or U.S. Fish and Wildlife Service? | ☐ | ☐ | ☐ | ☒ |
| (c) | Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means? | ☐ | ☐ | ☐ | ☒ |
| (d) | Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites? | ☐ | ☐ | ☐ | ☒ |
| (e) | Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance? | ☐ | ☒ | ☐ | ☐ |
| (f) | Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan? | ☐ | ☐ | ☐ | ☒ |

### 4.4.1 Impact Analysis

*a) Would the project have a substantial adverse effect, either directly or through habitat modification, on any species identified as candidate, sensitive or special status species in local or regional plans, policies or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?*

**Less Than Significant Impact.** The Main is located in an urbanized neighborhood in the unincorporated community of Altadena and was originally built in 1967. Due to the developed nature of the site and surrounding area, no candidate, sensitive, or special status species exist on or around the site. While the Proposed Project site is not suitable habitat, it is possible that birds may be using the existing vegetation and trees for nests within the site and its immediate vicinity. The majority of facility repairs and upgrades would occur in the interior of existing buildings. However, the landscaping improvements, the addition of 12 bicycle parking spaces, amphitheater, and a new staff parking lot would result in some ground-disturbing activities. Since Project activities would remove 12 trees, and the construction timeline (late Summer 2024 into Spring 2025), construction activities might pose a risk to nesting birds. Implementation of PDF-1 (described in the Project Description Section 1.4.2) prevents impacts to nesting birds and would comply with the Migratory Bird Treaty Act (MBTA), which

prohibits the removal of listed migratory birds or their parts, such as eggs and nests, from private property. Therefore, impacts either directly or through habitat modification, on any species identified as candidate, sensitive or special status species would be less than significant.

b) *Would the project have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?*

**No Impact.** As noted above, the Proposed Project site is an existing library campus located in an urbanized area of the unincorporated community of Altadena. On-site vegetation is limited to ornamental landscaping. No riparian habitat or other sensitive natural communities exist on the Proposed Project site (United States Fish and Wildlife Service [USFWS] 2023). Therefore, implementation of the Proposed Project would not result in impacts associated with riparian habitat or other sensitive natural communities.

c) *Would the project have a substantial adverse effect on state or federally protected wetlands (including but not limited to marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?*

**No Impact.** The Proposed Project site, Main Library, is located in an urbanized area in the community. Onsite vegetation is ornamental landscaping. A review of the USFWS records reveal that no known wetlands exist on-site (USFWS 2023). Therefore, implementation of the Proposed Project would not result in an impact associated with wetlands.

d) *Would the project Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?*

**No Impact.** As noted above, the Main is located in an urbanized area, and no native resident or migratory fish or wildlife species, established wildlife corridors, or native wildlife nursery sites exist on the Proposed Project site. Therefore, implementation of the Proposed Project would not result in an impact associated with native migratory species or nursery sites.

e) *Would the project conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?*

**Less than Significant with Mitigation.** As discussed previously, the Proposed Project activities would result in the removal of 12 of 51 trees on-site. None of the trees that would be removed have special status. There are no oak trees on the Project site. The remaining 39 trees would be protected in place. Six new trees are currently proposed, including large specimens at the North Patio and Community Plaza. However, the County Municipal Code for Altadena Community Standards (Municipal Code 22.306(3)(d)) requires that mature trees are preserved as part of a CUP that would be required for the Proposed Project. This could result in a significant impact associated with conflicting with a local ordinance. Implementation of Mitigation Measure Bio-1 would reduce the impact associated with conflicting with local ordinances to less than significant.

**MM Bio-**1 Tree Replacement. The District shall retain a certified arborist to conduct a tree survey and complete a report on the trees subject to removal. The report shall contain the type, size, and condition of the trees proposed for removal. The Tree report shall be submitted to the County to determine the replacement requirements for the trees to comply with County ordinances.

*f) Would the project conflict with the provisions of an adopted Habitat Conservation Plan, Natural Conservancy Conservation Plan, or other approved local, regional, or state habitat conservation plan?*

**No Impact.** No adopted habitat conservation plans or natural community conservation plans exist for the County of Los Angeles or the surrounding area, nor is the Proposed Project located in a recognized Significant Ecological Area, or Wildlife habitat linkage (County 2022c). Therefore, implementation of the Proposed Project would not result in impacts associated with an applicable habitat conservation plan or natural community conservation plan.

## 4.5 CULTURAL RESOURCES

| 5. | CULTURAL RESOURCES. Would the project: | Potentially Significant Impact | Less than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|---|
| (a) | Cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5? | ☒ | ☐ | ☐ | ☐ |
| (b) | Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5? | ☐ | ☐ | ☒ | ☐ |
| (c) | Disturb any human remains, including those interred outside of formal cemeteries? | ☐ | ☐ | ☒ | ☐ |

### 4.5.1 Environmental Setting

A cultural resource records search was conducted of records maintained by the California Historic Resources Inventory System (CHRIS) at the South Central Coastal Information Center (SCCIC) at California State University, Fullerton. The records were received by Kleinfelder on September 27, 2022 (SCCIC File No.: 24012.10187). The records search encompassed the Project area and a 0.25-mile buffer radius. The purpose of the record search was to identify if any historic-period cultural resources had been identified and determine if cultural resources studies had been previously documented in the Project area and/or the surrounding 0.25-mile buffer. Further, Kleinfelder reviewed the Built Environment Resource Directory (BERD) to determine if any additional historic-period built environment resources not included in the records search results were recorded.

The results of the records search indicate that no previous cultural resources studies have been conducted within the Project area and that no previously identified cultural resources have been located within the Project area. One previously conducted cultural resource study was identified, but no previously identified historic-period cultural resources have been documented, within 0.25 mile of the Project area.

In addition to the records search, an extensive pedestrian survey was conducted in January 2024 by Kleinfelder's Principal Architectural Historian. The interior and exterior of the Main Library were photo documented, then analyzed against the historic context. The full Architectural History Study is included as Appendix A.

As discussed in Appendix A, the CEQA Statute and Guidelines Section (15064.5 (b)(3)) states, impacts on historical resources from a project that follows the Secretary of the Interior's Standards for the Treatment of Historic Properties with Guidelines for Preserving, Rehabilitating, Restoring, and Reconstructing Historic Buildings or the Secretary of the Interior's Standards for Rehabilitation and Guidelines for

Rehabilitating Historic Buildings, as appropriate, shall be considered less than significant impact. Kleinfelder recommended that the Secretary of the Interior Standards for Rehabilitation (SOI Standards) are the most appropriate of the Secretary of the Interior's Standards for the Treatment of Historic Properties for the proposed Project due to the nature of the Project and the condition of the existing building. Rehabilitation is defined as the act or process of making possible a compatible use for a property through repair, alterations, and additions while preserving those portions or features which convey its historical, cultural, or architectural values. The SOI Standards acknowledge the need to alter or add to a historic building to meet continuing or new uses while retaining the building's historic character. The analysis below provides a summary of the detailed findings in Appendix A.

### 4.5.2 Impact Analysis

*a) Would the project cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5?*

**Potentially Significant Impact.** Appendix A includes an analysis of if the Project design changes, to character defining features of the Main Library, meet the SOI Standards. The changes are grouped into three categories: 1) site and landscape, 2) building exterior and 3) building interior. The following discussion is a summary of the Project design changes by the three categories and if they meet each of the SOI Standards.

**Site and Landscape-**

- The removal of 12 trees, six of which are in poor condition, will not modify the overall appearance of the landscape in such a way that will compromise the historic integrity of the landscaping plan.
- The built environment landscaping elements such as the footbridges and globe lanterns will be repaired if possible, using in-kind materials in conformance with the SOI Standards.
- Additions to the building, new walkways, and the potential construction of the amphitheater alter the landscape and the site plan but are compatible with the intent and the design for the space while not creating a false sense of history.

**Building Exterior**

- The addition of the new entrance and atrium on the south façade of the library will alter character defining features such as the emphasis of horizontal planes, characteristic of Mid-Century Modern architecture. Partially removing the existing fascia creates a visual break in horizontality.
- A portion of the existing concrete masonry unit (CMU) wall on the south façade will be demolished, breaking the visual horizontality, a character-defining feature.
- A portion of the glass windows on the southern façade will be replaced with CMU block (per schematic design) breaking the interior/exterior character-defining feature associated with Mid-Century Modern architecture.
- The main entrance will be altered and replaced with a new set of modern glass doors and an atrium, making it the central focus of the south façade and thus removing the character-defining feature of unassuming recessed entrances.
- The new entrance will consist of double-height glass; however, it might be partially obscured by the existing CMU wall, thus partially obstructing the indoor/outdoor transition.

**Building Interior**

- Open spaces will be broken with bigger enclosed spaces, notably on the western portion of the interior space, breaking the open plan space.
- Character-defining features of the sunken living room, such as tiled floor, will be removed.
- All wood paneling and millwork will be removed and will not be reused in any aspects of the interior design.

Table 3 (4.1 in Appendix A) summarizes the overall compliance with the SOI Standards

**Table 3: Standards Assessment**

| SOI Standards | Assessment |
|---|---|
| A property will be used as it was historically or be given a new use that requires minimal change to its distinctive materials, features, spaces, and spatial relationships. | The Altadena Main Library will continue to be used as a public library. Therefore, the Project generally conforms to this standard. |
| The historic character of a property will be retained and preserved. The removal of distinctive materials or alteration of features, spaces, and spatial relationships that characterize a property will be avoided. | Based on the Project plans, historic character features will be altered, distinctive character defining materials will be removed, and spatial relationships between spaces will be altered. These alterations will result in a significant change in the spatial relationship and to the integrity of materials, design, workmanship, and feeling, particularly for the interior of the building. Therefore, the Project does not generally conform to this standard. |
| Each property will be recognized as a physical record of its time, place, and use. Changes that create a false sense of historical development, such as adding conjectural features or elements from other historic properties, will not be undertaken. | Based on the Project plans that have been provided, the alterations to the property will be distinct from the historical design, while also complimentary to the intent of the original design. These changes will be differentiated from the historical material and will not create a false sense of history. Therefore, the Project generally conforms to this standard. |
| Changes to a property that have acquired historic significance in their own right will be retained and preserved. | No changes to the property that have acquired historic significance have been identified. Therefore, the Project generally conforms to this standard. |
| Distinctive materials, features, finishes, and construction techniques or examples of craftsmanship that characterize a property will be preserved. | Although some materials and finishes will be retained, other of the character-defining features such as wood paneling and millwork, tiles, spatial relationship between the interior and exterior, and emphasis in horizontal panes will be removed. These alterations will result in an overall loss of integrity of materials, design, workmanship, and feeling. Therefore, the Project does not generally conform to this standard. |
| Deteriorated historic features will be repaired rather than replaced. Where the severity of deterioration requires replacement of a distinctive | Based on the Project plans, historic features such as the trellis/chandelier, will be refurbished rather than replaced. In addition, the wooden bridges on |

| SOI Standards | Assessment |
|---|---|
| feature, the new feature will match the old in design, color, texture, and, where possible, materials. Replacement of missing features will be substantiated by documentary and physical evidence. | the exterior of the building will be repaired and/or replaced with in-kind materials. While these specific improvements generally conform to this standard, the building will undergo such significant alterations that other historic features (such as windows and wood paneling) will be removed. These alterations will result in an overall loss of integrity of materials, design, workmanship, and feeling. Therefore, the Project does not generally conform to this standard. |
| Chemical or physical treatments, if appropriate, will be undertaken using the gentlest means possible. Treatments that cause damage to historic materials will not be used. | Based on the Project plans that have been provided, it does not appear that use of chemical or physical treatments will cause damage to historic materials that will not be modified by removal and new construction. Therefore, the Project generally conforms to this standard. |
| Archeological resources will be protected and preserved in place. If such resources must be disturbed, mitigation measures will be undertaken. | Appendix A does not address archaeological resources. |
| New additions, exterior alterations, or related new construction will not destroy historic materials, features, and spatial relationships that characterize the property. The new work shall be differentiated from the old and will be compatible with the historic materials, features, size, scale and proportion, and massing to protect the integrity of the property and its environment. | The proposed additions will alter character defining features and will remove/destroy historic materials. These alterations will result in an overall loss of integrity of materials, design, workmanship, and feeling. Therefore, the Project does not generally conform to this standard. |
| New additions and adjacent or related new construction will be undertaken in a such a manner that, if removed in the future, the essential form and integrity of the historic property and its environment would be unimpaired. | The majority of the modifications to the building under this Project will permanently modify the building in such a way that, if removed in the future, the essential form and integrity of the historic property would not be retained. Therefore, the Project does not generally conform to this standard. |

As summarized in Table 3, the Project will not conform to all of the SOI Standards and will result in an overall loss of integrity of materials, design, workmanship, and feeling. Therefore, the Project will result in a significant and unavoidable change to a historical resource. Mitigation Measures CUL-1 and CUL-2 would be implemented to reduce the impact, but the impact to the Main Library would remain significant.

**MM CUL-1: Historic American Buildings Survey-like Documentation:** Prior to the commencement of demolition, the building should be recorded through a documentation report based on Historic American Buildings Survey (HABS)-standards. The report will be completed by an architectural historian or historic architect who meets the Secretary of the Interior's Professional Qualification Standards and will be based on the National Park Service (NPS) HABS Level III format and content requirements. An archival copy of the HABS report will be filed with the Altadena Library and nonarchival copies may be deposited in the collections of the Long Beach Public Library and Long

Beach Heritage Museum, if requested, and in the California Historical Resources Information System (CHRIS) South Central Coastal Information Center (SCCIC).

**MM-CUL-2: Salvage and Use of Salvaged Materials:** Prior to the commencement of demolition, the Altadena Library District should coordinate with an architectural historian or historic architect who meets the Secretary of the Interior's Professional Qualification Standards, the Project architect, and the demolition contractor to develop a list of materials that would be salvaged during demolition and a salvage plan which may include architectural history monitoring during demolition.

b) *Would the project cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?*

**Less than Significant Impact.** As noted above, the results of the records search indicate that no previous cultural resources studies have been conducted within the Project area and that no previously identified cultural resources have been located within the Project area. In addition, if any archaeological resources are encountered during construction activities, the construction BMPs related to cultural resources noted in Section 1.4.2 would be followed. Further, ground disturbance of any native soils or soils not previously disturbed would not occur as part of the Proposed Project. Due to the low potential to encounter archaeological resources, a less than significant impact would occur.

c) *Would the project disturb any human remains, including those interred outside of formal cemeteries?*

**Less than Significant Impact.** As noted in Section 1.4.2, the proposed Project site is located in a residential area, previously disturbed by past activities. No known human remains are known to be in the Project area. Thus, the disturbance of human remains is not expected in conjunction with project grading and excavation activities. While no formal cemeteries, other places of human internment, or burial grounds sites are known to occur within the immediate Project site, human remains could always possibly be encountered during construction. Should human remains be encountered unexpectedly during grading or construction activities, State Health and Safety Code Section 7050.5 requires that no further disturbance shall occur until the County Coroner has made the necessary findings as to origin and disposition pursuant to Public Resource Code (PCR) Section 5097.98. No further excavation or disturbance of the Project site or any nearby area reasonably suspected to overlie adjacent remains would occur until the County Coroner has determined, within two working days of notification of the discovery, if the remains are human. In the event human remains are discovered, a less than significant impact would occur.

## 4.6 ENERGY

| 6. | ENERGY<br>Would the project: | Potentially Significant Impact | Less than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|---|
| (a) | Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation? | ☐ | ☐ | ☒ | ☐ |
| (b) | Conflict with or obstruct a state or local plan for renewable energy or energy efficiency? | ☐ | ☐ | ☒ | ☐ |

### 4.6.1 Impact Analysis

*a) Would the project a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?*

**Less than Significant Impact.** The Proposed Project involves interior and exterior improvements including interior space reconfigurations, access and parking improvements, seismic retrofit, replacement of aged building infrastructure (HVAC, elevator, plumbing, and electrical) and landscaping activities, and other improvements. The Proposed Project would, at a minimum, implement California Code of Regulations (CCR) Title 24 Part 6: California's Energy Efficiency Standards for Residential and Nonresidential Buildings. In addition, the proposed repairs and improvements include the installation of energy-efficient systems. The Proposed Project would, therefore, result in a less than significant impact.

*b) Would the project Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?*

**Less than Significant Impact.** The Proposed Project would comply with the CCR Title 24, which regulates the amount of energy consumed by a new development for heating, cooling, ventilation, and lighting – all of which would apply to the renovation of the Main. The Proposed Project would result in less than significant impacts.

## 4.7 GEOLOGY AND SOILS

| 7. | GEOLOGY AND SOILS. Would the project: | Potentially Significant Impact | Less than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|---|
| (a) | Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving: | | | | |
| | i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42. | ☐ | ☐ | ☒ | ☐ |
| | ii) Strong seismic ground shaking? | ☐ | ☐ | ☒ | ☐ |
| | iii) Seismic-related ground failure, including liquefaction? | ☐ | ☐ | ☒ | ☐ |
| | iv) Landslides? | ☐ | ☐ | ☒ | ☐ |
| (b) | Result in substantial soil erosion or the loss of topsoil? | ☐ | ☐ | ☒ | ☐ |
| (c) | Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse? | ☐ | ☐ | ☒ | ☐ |
| (d) | Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property? | ☐ | ☐ | ☒ | ☐ |

| 7. | GEOLOGY AND SOILS. Would the project: | Potentially Significant Impact | Less than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|---|
| (e) | Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water? | ☐ | ☐ | ☐ | ☒ |
| (f) | Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature? | ☐ | ☐ | ☐ | ☒ |

### 4.7.1 Impact Analysis

*a) i) Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.*

**Less than Significant Impact.** The Project site is not identified to be located within a State-designated Alquist-Priolo Fault Zone. The nearest designated Alquist-Priolo Earthquake Fault Zone is the Raymond Fault Zone located approximately 4.7 miles south of the Project site (DOC 2021). Further, all construction activities for the Project would be conducted in accordance with the Uniform Building Code as well as County regulations and ordinances, pertaining to the mitigation of potential geologic and seismic impacts. Some improvements include increasing the seismic resilience of the facility. Implementation of the Project would not exacerbate the existing conditions of the library or result in risk of loss, injury, or death involving a rupture of a known fault. Therefore, the Proposed Project would result in a less than significant impact associated with earthquake fault rupture**.**

*ii) Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving strong seismic ground shaking?*

**Less than Significant Impact.** The most significant seismic hazard potentially affecting the Project site is ground shaking from a major earthquake. The Project site is an existing library that would be undergoing upgrades and renovation. Seismic retrofit includes a new full height sheer wall at the South elevation, larger columns to replace the existing smaller ones to address performance issues with the glass panels between the low and high roofs, reinforcing in existing masonry wall to increase sheer strength. As noted in the previous response, the Project site is not located within a fault zone, and the closest fault is approximately 4.7 miles south. The interior and exterior upgrades proposed as a part of the Project would be conducted in accordance with the Uniform Building Code (UBC), as well as local regulations and ordinances pertaining to the mitigation of potential geologic and seismic impacts. Therefore, implementation of the Project would result in a less than significant impact associated with strong seismic ground shaking.

*iii) Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving seismic-related ground failure, including liquefaction?*

**Less than Significant Impact.** The Department of Conservation's EQZapp Program identifies the Project site as not being located within a liquefaction zone (DOC 2021). The Project site is an existing library that would be undergoing interior and exterior upgrades. Additionally, all Project activities would be conducted in accordance with the UBC, as well as County regulations and ordinances, pertaining to the mitigation of potential geologic and seismic impacts. Therefore, implementation of the Project would result in a less than significant impact associated with seismic-induced ground failure, including liquefaction.

*iv) Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving landslides?*

**Less than Significant Impact.** Although the Project site has a slight slope in the topography, it is not identified by the Department of Conservation's EQZapp Program as an area prone to seismically induced landslide (DOC 2021). Therefore, implementation of the Project would result in a less than significant impact associated with landslides.

*b) Would the project result in substantial soil erosion or the loss of topsoil?*

**Less than Significant Impact.** The Project activities including removal of concrete, pavement, and removal of existing turf, trees, planters, and shrubs. Areas of pavement and concrete removal include the new Community Room, driveway for new staff parking, new entry/lobby along much of the north side of the Main and walkways to bridge on north side of facility. Clearing and grubbing would occur at the new staff parking lot, amphitheater, new entry/lobby, near the path to the bridge on the north side, and the new Makers Space Deck. Exterior demolition would require approximately 0.28 acres of ground disruption activities. The majority of work associated with implementation of the Proposed Project involves upgrades within the interior of the existing building. If more than 50 cubic yards of grading would be necessary, a County Grading Permit would be required (County 2017). BMPs to manage soil erosion on the site would be required and if grading occurs after November 1 Erosion and Sediment Control Plans would need to be submitted to the County Building Official (County 2017). Due to past development of the area, the limited amount of ground-disturbing activities associated with the Proposed Project, and County required BMPs, the potential for soil erosion or loss of topsoil would be minimal. Therefore, implementation of the Proposed Project would result in less than significant impacts associated with soil erosion or loss of topsoil.

*c) Would the project be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?*

**Less Than Significant Impact.** As noted in Impact 4.7 a) iii, the Proposed Project site is not located within a liquefaction zone, and the soil is not prone to liquefaction (DOC 2021, USDA 2022). Further, the Proposed Project site has been previously graded and developed, and all Project-related activities would be conducted in accordance with the UBC and County regulations and ordinances pertaining to the mitigation of potential geologic and seismic impacts. Therefore, implementation of the Proposed Project would result in less than significant impacts associated with off-site landslide, lateral spreading, subsidence, liquefaction, or collapse.

*d) Would the project be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?*

**Less than Significant Impact.** Expansive soils possess clay particles that react to moisture changes by shrinking when dry or swelling when wet. These types of soils have the potential to crack building foundations and, in some cases, structurally distress the buildings themselves. Minor to severe damage to overlying structures is possible. However, the Proposed Project is located on Urban Land-Sobaba-Tijunga complex, which has low expansive properties (United States Department of Agriculture [USDA] 2022). The work associated with implementation of the Proposed Project would involve minor ground-disturbing activities. Therefore, the Project would not expose people or the library to adverse effects associated with expansive soils resulting in less than significant impacts.

*e) Would the project have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?*

**No Impact.** The Proposed Project site relies on existing wastewater infrastructure to accommodate wastewater disposal requirements. Therefore, implementation of the Proposed Project would not result in an impact associated with soils incapable of supporting septic systems

*f) Would the project directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?*

**No Impact.** No known paleontological resources are located on the Proposed Project site. As noted in Section 4.5, the Proposed Project site is located in an urbanized area disturbed by past activities. In addition, if any paleontological resources are encountered during construction activities, the construction BMPs related to cultural resources noted in Section 1.4.2 would be followed. Further, ground disturbance of any native soils or soils not previously disturbed would not occur as part of the Proposed Project resulting in no impacts associated with unique paleontological resources or site or a unique geologic feature.

## 4.8 GREENHOUSE GAS EMISSIONS

| 8. | GREENHOUSE GAS EMISSIONS. Would the project: | Potentially Significant Impact | Less than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|---|
| (a) | Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment? | ☐ | ☐ | ☒ | ☐ |
| (b) | Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases? | ☐ | ☐ | ☒ | ☐ |

### 4.8.1 Impact Analysis

*a) Would the project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?*

**Less than Significant Impact.** The Proposed Project would allow for an approximately 4,000 square feet increase in the size of the Main. Operational, library activities would remain consistent with previous uses with no new activities proposed that would result in long-term increase in operational

greenhouse gas (GHG) emissions and more energy efficient infrastructure would be installed as part of the renovations. Therefore, implementation of the Proposed Project would result in a less than significant impact associated with GHG emissions.

*b) Would the project conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases?*

**Less than Significant Impact**. In 2011, SCAQMD prepared an Air Quality-Related Energy Policy that integrates air quality, energy, and climate change issues. It outlines policies to guide and coordinate SCAQMD efforts and provides guidance in developing future clean air programs which includes reducing greenhouse gas emissions. Los Angeles County has adopted a Climate Action Plan for the 2015–2020 period and is in the process of adopting a Climate Action Plan for 2045.

The Proposed Project emissions are short term and would be insignificant in comparison to larger construction projects. The operation of the Proposed Project would not create a significant increase in GHG emissions, as the library would continue to operate in the same manner as previously once the upgrades and repairs have been completed. In addition, the proposed improvements include upgrades to provide energy-efficient systems to improve library conditions. Policy 9 of the Air Quality-Related Energy Policy includes actions to promote use of energy-efficient appliances (SCAQMD 2011). Therefore, implementation of the Proposed Project would result in a less than significant impact associated with an applicable plan, policy, or regulation adopted for reducing the emissions of GHGs.

## 4.9 HAZARDS AND HAZARDOUS MATERIALS

| 9. | HAZARDS AND HAZARDOUS MATERIALS. Would the project: | Potentially Significant Impact | Less than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|---|
| (a) | Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials? | ☐ | ☐ | ☒ | ☐ |
| (b) | Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment? | ☐ | ☐ | ☒ | ☐ |
| (c) | Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school? | ☐ | ☐ | ☒ | ☐ |
| (d) | Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment? | ☐ | ☐ | ☐ | ☒ |
| (e) | For a project located within an airport land use plan or, where such a plan had not been adopted, within 2 miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area? | ☐ | ☐ | ☐ | ☒ |

| 9. | HAZARDS AND HAZARDOUS MATERIALS. Would the project: | Potentially Significant Impact | Less than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|---|
| (f) | Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan? | ☐ | ☐ | ☒ | ☐ |
| (g) | Expose people or structures, either directly or indirectly, to a significant risk of loss, injury, or death involving wildland fires? | ☐ | ☐ | ☐ | ☒ |

### 4.9.1 Impact Analysis

*a) Would the project create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?*

**Less than Significant Impact.** As a library site, the Project would not involve the production or use of a significant amount of hazardous materials. During construction, the Proposed Project would involve the use of equipment that would emit emissions associated with internal combustion engines, (i.e., diesel and gasoline). In addition, other hazardous materials that would be used (e.g., petroleum-based products, paints, solvents, sealers, oils, grease, and cleaning fluids) would be transported, used, stored, and disposed of according to existing regulations, including the manufacturer's product labels and Safety Data Sheets, safeguarding against significant hazards to the public or the environment. The use of these materials would be short term and would occur in accordance with standard construction practices. The use of hazardous materials during library operations would include minimal amounts of cleaning solvents and fuel for janitorial purposes and chemicals associated with landscaping maintenance. Limited amounts of these types of hazardous materials would be transported or disposed of during routine day-to-day operations. Therefore, implementation of the Proposed Project would result in less than significant impacts associated with the routine transport, use, or disposal of hazardous materials.

*b) Would the project create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?*

**Less than Significant Impact.** The Proposed Project would not include any significant structural renovations that would result in the accidental release of hazardous materials to the environment. Due to the time of original construction (1967) it is possible that the Main contains both asbestos-containing materials (ACM)/asbestos-containing building materials (ACBM) and lead-based paint (LBP).

Construction activities associated with the Proposed Project would require compliance with federal and State laws that regulate construction activities which might involve interaction with ACM or LBP. Regulations require that, prior to demolition, alteration, or renovation, (1) proper notification is given to the SCAQMD (who regulates airborne pollutants) and the local California Occupational Health and Safety Administration (OSHA) office; (2) the District will certify that ACMs have been removed or mitigated by a licensed asbestos abatement contractor certified by the State of California Contractors Licensing Board; and (3) the District will institute an operations and maintenance (O&M) program so that ACMs that are not damaged or LBP that will remain in place are properly managed to prevent

exposure to them. These permitting requirements automatically apply to all development associated with the Proposed Project and are standard conditions for approval of the Proposed Project.

Library staff and contractors conducting on-site construction work would be informed of the type of ACBMs that they may encounter and the location of the ACBM. The appropriate employers/contractors and certified Hazardous Materials oversight consultants will implement specific work practices to protect workers, staff, and students from airborne asbestos exposures. Control measures will be implemented that will address worker, staff, and visitor safety during the proposed upgrades.

Compliance with these regulations and implementation of the required safety measures would reduce potential impacts during construction and operation to a level below significant.

Additionally, as noted in previous response 4.9.1 a), the construction phase of the Proposed Project would involve the use of equipment during construction that would emit emissions associated with internal combustion engines (i.e., diesel and gasoline); however, the use of fuels is regulated by the State and would be in compliance with all State regulations during construction. Implementation of the Proposed Project would result in a less than significant impact associated with the release of hazardous materials.

c) *Would the project emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?*

**Less than Significant Impact.** The implementation of the Proposed Project includes facility repairs and upgrades, exterior repairs, and access and landscaping upgrades to the Main. The schools closest to the Proposed Project site are the Pasadena Waldorf High School and the Altadena Arts Magnet School, located approximately 0.12 mile southwest and 0.33 mile southeast respectively from the Proposed Project site. As noted in the previous responses, the Proposed Project would involve the use of construction equipment that would emit emissions associated with internal combustion engines (i.e., diesel and gasoline). Once operational, the Proposed Project would involve minimal amounts of cleaning solvents and fuel for janitorial purposes and chemicals for landscaping maintenance which would be subject to federal, State, and local health and safety requirements. Adherence to all local, County, State, and federal policies and regulations would reduce impacts to a level less than significant. Therefore, implementation of the Proposed Project would result in less than significant impacts associated with hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school.

d) *Would the project be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?*

**No Impact.** The Proposed Project site is not on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 (State Water Resources Control Board [SWRCB] 2023; Department of Toxic Substances Control [DTSC] 2023); therefore, implementation of the Proposed Project would not result in an impact associated with known hazardous materials sites.

*e) For a project located within an airport land use plan or, where such a plan had not been adopted, within 2 miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?*

**No Impact.** The Proposed Project site is located approximately 9.5 miles northwest of San Gabriel Valley Airport (Google Earth 2023). Therefore, the implementation of the Proposed Project would not result in an impact associated with a public airport.

*f) Would the project impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?*

**Less than Significant Impact.** Implementation of the Proposed Project involves a new entrance with ADA compliant pathways, a new driveway and parking lot at the rear entrance, interior and exterior upgrades, expansion of the facility, and exterior landscaping. These activities would not interfere with established emergency response or emergency evacuation plans and may improve entry and exit in the case of an evacuation. These changes may require an update to the evacuation plan as there would be more options for evacuation. Therefore, a less than significant impact would occur associated with physically interfering with an adopted emergency response or evacuation plan.

*g) Would the project expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?*

**No Impact.** The Proposed Project site at the Main is not located within a State- or locally classified very high fire hazard severity zone (Cal Fire 2023). Therefore, implementation of the Proposed Project would not result in an impact associated with wildland fires.

## 4.10 HYDROLOGY AND WATER QUALITY

| 10. | HYDROLOGY AND WATER QUALITY. Would the project: | Potentially Significant Impact | Less than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|---|
| (a) | Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality? | ☐ | ☐ | ☒ | ☐ |
| (b) | Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin? | ☐ | ☐ | ☒ | ☐ |
| (c) | Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would: | | | | |
| | i) Result in substantial erosion or siltation on- or off-site; | ☐ | ☐ | ☒ | ☐ |
| | ii) Substantially increase the rate or amount of surface runoff in a manner which would result in flood on- or off-site; | ☐ | ☐ | ☒ | ☐ |
| | iii) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or | ☐ | ☐ | ☒ | ☐ |

| 10. | HYDROLOGY AND WATER QUALITY. Would the project: | Potentially Significant Impact | Less than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|---|
| | iv) Impede or redirect flood flows? | ☐ | ☐ | ☐ | ☒ |
| (d) | In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation? | ☐ | ☐ | ☐ | ☒ |
| (e) | Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan? | ☐ | ☐ | ☒ | ☐ |

### 4.10.1 Impact Analysis

*a) Would the project violate any water quality standards or waste discharge requirements, or otherwise substantially degrade surface or ground water quality?*

**Less than Significant Impact.** As noted previously, the Main is an existing developed site and is currently in compliance with water quality standards, discharge requirements and is not degrading surface or groundwater quality. Implementation of the Proposed Project involves expansion of the building from approximately 22,000 square feet to a building footprint of approximately 25,000 square feet. The creation of the amphitheater, outdoor reading court, and constructing a new parking lot along with other outdoor construction would result in soil disturbance. The site is approximately 1.72 acres with 0.28 acre being disturbed for improvements.

Soil from ground disturbance, along with pollutants from construction activities, has the potential to enter the storm drain system and result in short-term impacts to site drainage during construction periods. However, the Proposed Project would also employ BMPs required by the County for approval of the CUP which would reduce the potential for erosion by implementing erosion and sediment control measures that regulate the amount and quality of runoff from the construction site. After construction the finished grading would slope walking paths, landscapes, and other surfaces away from buildings towards onsite drainage features to improve management of runoff, and the Main would operate as it is currently. Therefore, implementation of the BMPs during the Proposed Project activities and incorporating grading design to manage runoff would result in less than significant impacts associated with water quality standards or waste discharge requirements.

*b) Would the project substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?*

**Less than Significant.** The Proposed Project involves facility repairs and upgrades, landscaping upgrades, and expansion at the Main. The Proposed Project site is currently developed, and the majority of ground cover is an impervious surface. The Proposed Project would increase the amount of impervious surfaces with the building expansion, amphitheater, and new parking area. The footprint of the building is being increased by approximately 4,000 square feet. However, the Proposed Project would not result in a significant increase in the number of staff or users, and additional water resources would not be required to accommodate any such growth. In addition, new irrigation and infrastructure would be in place to use water more efficiently on the site. Therefore, implementation of the Proposed Project would result in less than significant impacts associated with groundwater recharge or groundwater depletion.

*c) i) Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would result in substantial erosion or siltation on- or off-site;*

**Less than Significant Impact.** As noted previously, the Proposed Project site is in an urbanized location and is currently developed and mostly covered in impervious surfaces except for landscaped areas with turf, ornamental shrubs, and trees some that have been there since the original landscaping of the site. The increase in impervious surfaces would be approximately 2,200 square feet as a result of the proposed improvements. Therefore, the Proposed Project would not substantially increase the area of impervious surfaces at the Proposed Project site. Construction resulting in ground-disturbing activities would implement BMPs, identified by the County during the permitting process that would reduce any potential erosion or siltation on- or offsite. Further, the drainage pattern of the Proposed Project site and surrounding area is well established and would be more efficient with the additional grading sloping towards existing drainage features. No streams or rivers are located on or near the Proposed Project site. Therefore, implementation of the Proposed Project would result in less than significant impacts associated with the existing Drainage pattern.

*ii) Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site;*

**Less than Significant Impact.** The Proposed Project site is in an urbanized location and the site is currently developed and mostly covered in impervious surface. Further, the Proposed Project would not create or contribute significant runoff. Building expansion and the additional outdoor functional spaces would result in an increase in impervious surfaces. However, the increases in impervious surfaces are minimal on the overall 1.72-acre site, the Proposed Project would not create or contribute a significant increase to surface runoff volume that would exceed the capacity of the existing stormwater drainage systems. The small amount of grading would slope towards existing drainage structures improving control of drainage on-site. The Proposed Project site does not include any streams or rivers on or near the site; the drainage pattern of the completed Project would be similar to existing conditions. Therefore, implementation of the Proposed Project would result in a less than significant impact associated with surface runoff potentially resulting in flooding.

*iii) Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources or polluted runoff; or*

**Less than Significant Impact.** As noted above, the Proposed Project site is in an urbanized location, and the site is currently developed and covered in impervious surface. Building and landscaping would result in a slight increase in impervious surfaces. The drainage pattern of the completed Project would be similar to existing conditions, and the Proposed Project would not significantly impact stormwater runoff. Further, County required BMPs would reduce any impacts during construction associated with stormwater runoff; implementation of the Proposed Project would

result in a less than significant impact associated with stormwater drainage from construction activities.

*iv) Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would impede or redirect flood flows?*

**No Impact.** The Proposed Project is not located within a Federal Emergency Management Agency (FEMA) identified 100-year flood hazard area; however, the Proposed Project is located within Zone X (minimal chance of flood hazard) (FEMA 2008). In addition, the on-site soil is not conducive to flooding (USDA 2023). The Proposed Project mostly involves interior and exterior upgrades with approximately 0.23 acres of ground-disturbing activities. Grading would slope towards drainage structures. Therefore, implementation of the Proposed Project would not result in an impact associated with redirecting flood flows in a flood hazard area.

*d) Would the project in flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?*

**No Impact**. Seiches or mudflows are not potential hazards in the Proposed Project area. Tsunamis have the potential to impact the coastal area; however, the Proposed Project site is located approximately 24 miles inland and is not located in an inundation or tsunami hazard area. The Proposed Project is not located within a FEMA identified 100-year flood hazard area (FEMA 2008). Implementation of the Proposed Project would not result in an impact associated with inundation by flood hazard, seiche, or tsunami.

*e) Would the project conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?*

**Less Than Significant Impact.** The Proposed Project lies within the purview of the Los Angeles Regional Water Quality Control Board. The Los Angeles Regional Water Quality Control Board's Basin Plan is designed to preserve and enhance water quality and protect the beneficial uses of all regional waters (SWRCB 2018). As mentioned above, the Proposed Project would employ BMPs prior to initiation of construction activities and throughout the duration of construction that prevent impacts to water quality as a result of construction activities reducing any impacts to less than significant. Although a small additional parking lot would be constructed for staff, the Proposed Project would not create or contribute a significant increase to surface runoff volume during operations. The Project would be compliant with all city, state, and federal regulations. Therefore, implementation of the Proposed Project would result in a less than significant impact associated with water quality control plan or sustainable groundwater management plan.

## 4.11 LAND USE AND PLANNING

| 11. | LAND USE/PLANNING<br>Would the project: | Potentially Significant Impact | Less than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|---|
| (a) | Physically divide an established community? | ☐ | ☐ | ☐ | ☒ |

| 11. | LAND USE/PLANNING<br>Would the project: | Potentially Significant Impact | Less than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|---|
| (b) | Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect? | ☐ | ☐ | ☐ | ☒ |

### 4.11.1 Impact Analysis

*a) Would the project physically divide an established community?*

**No Impact.** The Project would be located on a site that has been in use as a public library since it was originally built in 1967. The Project would continue the longstanding presence of a public facility at the Project site. Implementation of the Project includes facility repairs, expansion, and upgrades, landscaping upgrades, and additional outdoor functional spaces. The Project would not change the land uses currently existing at the site or create an incompatible use. The continued use of the site as a library would not result in a new barrier that would divide the established surrounding community; therefore, implementation of the Project would have no impact on an established community.

*b) Would the project cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?*

**No Impact.** As described above, the Project site is designated as Other Property Type and zoned as Single Family Residential (R-1). According to the County's zoning code, libraries are conditionally authorized land uses within the R-1 zone (Municipal Code Section 22.18). The Project does not propose a change to the existing land use or zoning designations. Therefore, implementation of the Project would not result in an impact associated with an applicable land use plan, policy, or regulation.

## 4.12 MINERAL RESOURCES

| 12. | MINERAL RESOURCES<br>Would the project: | Potentially Significant Impact | Less than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|---|
| (a) | Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state? | ☐ | ☐ | ☐ | ☒ |
| (b) | Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan? | ☐ | ☐ | ☐ | ☒ |

### 4.12.1 Impact Analysis

*a) Would the project result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?*

**No Impact.** The Main site does not support any mineral resource extraction on-site or within the area. The Project would not result in any loss of availability of oil to the region or State. Further, the Department of Conservation (DOC) does not identify any mines in the community of Altadena (DOC

2023). Therefore, implementation of the Project would not result in an impact associated with mineral resources.

*b) Would the project result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?*

**No Impact.** As noted previously, no existing or historic mineral resource sites are present in or around the Project site; therefore, implementation of the Project would not result in an impact associated with a mineral resource recovery site.

## 4.13 NOISE

| 13. | NOISE<br>Would the project result in: | Potentially Significant Impact | Less than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|---|
| (a) | Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies? | ☐ | ☐ | ☒ | ☐ |
| (b) | Generation of excessive groundborne vibration or groundborne noise levels? | ☐ | ☐ | ☒ | ☐ |
| I | For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels? | ☐ | ☐ | ☐ | ☒ |

### 4.13.1 Environmental Setting

The North Patio is the location of the new amphitheater and reading court. The nearest receptors to the North Patio of the Main Include the Altadena Senior Center to the west of the facility at a distance of approximately 182 feet (Google Earth 2023). A residence to the east of the Project site is approximately 214 feet away from the North Patio (Google Earth 2023). Table 4 shows the allowable exterior noise levels in a residential area per County Municipal Code:

**Table 4: Los Angeles County Exterior Noise Limits**

| Designate Land Use (Receptors) | Time Interval | Allowable Exterior Noise Level (dB) |
|---|---|---|
| Residential | 10:00 pm to 7:00 am (nighttime) | 45 |
| Residential | 7:00 am to 10:00 pm (daytime) | 50 |

### 4.13.2 Impact Analysis

*a) Would the project result in generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?*

**Less than Significant Impact.** Implementation of the Proposed Project includes facility repairs and upgrades, landscaping improvements, utility upgrades, installation of a new HVAC and fire sprinkler system, and interior upgrades. Construction is expected to occur in one phase over an 18-month period, beginning September 2024. Although construction noise may be audible at surrounding properties, construction activities will be limited to the allowable construction times provided in Section 12.08.470 of the County Municipal Code, which restricts construction noise that occurs between 10:00 p.m. and 7:00 a.m. Monday through Sunday. Work associated with the Proposed Project would occur both interior and on the exterior of the existing building; construction noise levels would not exceed the construction noise levels beyond the 90-decibel (dB) OSHA standard. Therefore, construction of the Proposed Project would result in less than significant impacts associated with noise levels and standards.

The Proposed Project would increase the size of the library. This increase in use would allow for comfort for existing users. Additionally, the Proposed Project would create more functional spaces outdoors which would increase noise in the vicinity of the library with people talking without sound amplification (microphones). However, the library hours are Monday - Tuesday: 10:00 a.m. – 8:00 p.m., Wednesday - Friday: 10:00 a.m. – 6:00 p.m., Saturday: 10:00 a.m. – 4:00 p.m., and Sunday: Closed. There should only be noise from the library during daytime hours. The decibel level of a normal conversation between people is around 60 dB (dB 2024). County Noise limits during daytime is 50 db. The attenuation created by the distance from receptors, trees, and buildings would reduce the 60 db(A) created by human voices to the limits allowed by the County. Therefore, the long-term operation of the Project would result in a less than significant impact regarding an increase in noise or an impact associated with noise level standards.

*b) Would the project result in generation of excessive groundborne vibration or groundborne noise levels?*

**Less than Significant Impact.** The work associated with the Proposed Project would occur both inside and outside the existing building and would not create a significant amount of groundborne vibration or groundborne noise. Moreover, these activities would be temporary, and cease once the Proposed Project is returned to normal library operations. Therefore, implementation of the Proposed Project would result in less than significant impacts associated with groundborne vibration or groundborne noise.

*c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public us airport, would the project expose people residing or working in the project area to excessive noise levels?*

**No Impact.** The Proposed Project site is located approximately 9.5 miles southeast of San Gabriel Valley Airport (Google Earth 2023). The Proposed Project would not expose people residing or working in the surrounding area to excessive levels of airport-generated noise. Therefore, the Proposed Project would not result in an impact associated with public airport noise.

## 4.14 POPULATION AND HOUSING

| 14. | POPULATION AND HOUSING. Would the project: | Potentially Significant Impact | Less than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|---|
| (a) | Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)? | ☐ | ☐ | ☐ | ☒ |
| (b) | Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere? | ☐ | ☐ | ☐ | ☒ |

### 4.14.1 Impact Analysis

*a) Would the project induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?*

**No Impact.** Implementation of the Project includes facility repairs and upgrades, landscaping upgrades, and facility expansion to Main Library. The upgrades are intended to provide improved facilities for the existing community. Therefore, the Project would not induce population growth in the surrounding areas, nor would it create the need for additional housing. Further, the Project would be located on an existing library site already served by adjacent roadways and utilities infrastructure. Therefore, the implementation of the Project would result in no impacts associated with population growth.

*b) Would the project displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?*

**No Impact.** The Project site, Main Library, does not contain any residences or housing units and does not involve residential use; implementation of the Project would not result in an impact associated with the displacement of existing housing. Further, as noted previously, the Project would not induce population growth in the surrounding areas, nor would it create the need for replacement housing; therefore, no impacts would occur.

## 4.15 PUBLIC SERVICES

| 15. | PUBLIC SERVICES. | Potentially Significant Impact | Less than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|---|
| (a) | Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services: | | | | |
| | i) Fire Protection? | ☐ | ☐ | ☒ | ☐ |
| | ii) Police Protection? | ☐ | ☐ | ☒ | ☐ |
| | iii) Schools? | ☐ | ☐ | ☒ | ☐ |
| | iv) Parks? | ☐ | ☐ | ☒ | ☐ |
| | v) Other public facilities? | ☐ | ☐ | ☐ | ☒ |

### 4.15.1 Impact Analysis

*a) i) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for fire protection?*

**Less than Significant Impact.** Fire protection services are provided to the Main by the County of Los Angeles Fire Department. The Los Angeles County Fire Department Fire Station No. 11, located approximately 0.24 mile to the east of the site, serves as the primary responding station to the Proposed Project site (Google Earth 2023). The Proposed Project includes interior upgrades, building expansion, and other features throughout the campus. Land uses at the Proposed Project site would remain the same as under current conditions, and the Project improvements would not induce a growth in population. Thus, an increase in the demand for fire services resulting from the Proposed Project would not occur. Additionally, the Proposed Project would not result in the need for new or physically altered fire protection facilities. Further, the Proposed Project site is located in an urbanized area in the community that is void of any wildlands that may create significant fire risks to the Proposed Project site. In addition, to ensure conformance with State Fire Codes, the Proposed Project would not result in street closures that would result in inadequate access to the Proposed Project site. Therefore, implementation of the Proposed Project would result in a less than significant impact associated with fire protection.

*ii) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for police protection?*

**Less than Significant Impact.** The County of Los Angeles Sheriff's Department will be the provider of law enforcement services to the Proposed Project. The nearest Sheriff's Department location is the Altadena Sheriff's Station, approximately 0.27 mile east of the Project site (Google Earth 2023). As noted previously, the Proposed Project would not induce population growth resulting in the need for additional police services. Therefore, implementation of the Proposed Project would result in a less than significant impact associated with police protection.

*iii) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for schools?*

**Less than Significant Impact.** Implementation of the Proposed Project involves expansion of an existing building, interior and exterior upgrades, and other features throughout the library property boundary. As noted in Section 2.5, the construction would occur in one phase spanning an 18-month period (unless funding is delayed and then an additional temporary closure may occur to construct the starting in late Summer 2024, during which portions of the buildings would not be available for school use. However, the span of 18 months may be in two phases because the community room and/or amphitheater additions may be deferred for future construction if funding is not received prior to initiation of construction. The potential restrictions on use would be short term, and following construction the Main would return to its fully functioning existing uses. Bob Lucas Memorial Library would be used to support Main Library users during construction, but there could be a possible overlap in construction at the two libraries if the Bob Lucas Memorial Library construction is delayed or extended; however, the overlap in construction would be short term. Therefore, implementation of the Proposed Project would result in a less than significant impact associated with schools.

*iv) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for parks?*

**No Impact.** The Proposed Project activities do not involve the construction of any recreational facilities which could result in a short- or long-term impact on parks and recreation facilities in the vicinity. As noted in previous responses, the Proposed Project would not induce population growth and would not increase the number of library users. Therefore, implementation of the Proposed Project would not result in an impact associated with parks.

*v) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for other public facilities?*

**No Impact.** Implementation of the Proposed Project would not impact any other public facilities not discussed above. Therefore, no impacts to government facilities would occur.

## 4.16 RECREATION

| 16. | RECREATION. Would the project: | Potentially Significant Impact | Less than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|---|
| (a) | Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated? | ☐ | ☐ | ☐ | ☒ |
| (b) | Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment? | ☐ | ☐ | ☐ | ☒ |

### 4.16.1 Impact Analysis

*a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?*

**No Impact.** As noted in response 4.15 iv), implementation of the Proposed Project would not increase the use of existing neighborhood and regional parks or any other recreational facilities. There are a minimum of four parks within 1 mile of the Proposed Project including Altadena Triangle Park to the east, Mount Lowe Park to the northeast, Five Corners Park to the north and Charles White Park to the west. The Project would not induce population growth or result in a substantial increase in use that might cause deterioration of these facilities. Therefore, implementation of the Project would result in no impact associated with the deterioration of recreational facilities.

*b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?*

**No Impact.** The Project site is located at the Main, which provides residents library facilities and is 0.26 mile from Altadena Triangle Park (Google Earth 2023). Implementation of the Project would not require the construction or expansion of off-site recreational facilities. Further, the Project would not induce population growth, which could burden any facility beyond capacity by generating additional recreational users. Therefore, no impact would occur that would construction or expansion of recreational facilities.

## 4.17 TRANSPORTATION

| 17. | **TRANSPORTATION.**<br>**Would the project:** | **Potentially Significant Impact** | **Less than Significant With Mitigation Incorporated** | **Less Than Significant Impact** | **No Impact** |
|---|---|---|---|---|---|
| (a) | Conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadways, bicycle and pedestrian facilities? | ☐ | ☐ | ☒ | ☐ |
| (b) | Conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)? | ☐ | ☐ | ☒ | ☐ |
| (c) | Substantially increase hazards due to a geometric design feature (e. g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)? | ☐ | ☐ | ☒ | ☐ |
| (d) | Result in inadequate emergency access? | ☐ | ☐ | ☐ | ☒ |

### 4.17.1 Impact Analysis

*a) Would the project conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadways, bicycle and pedestrian facilities?*

**Less than Significant Impact.** The Proposed Project would generate minor increases in traffic associated with the short-term construction activities by workers and equipment travelling to and from the Proposed Project. These increases would be minor and limited only to the construction period (Summer 2024–Spring 2026). The Proposed Project would not significantly interfere with the flow of traffic along Lake Avenue, the major thoroughfare in the immediate vicinity, as the Project does not propose any roadwork in the area.

Implementation of the Proposed Project involves expansion of the existing building, interior upgrades, outdoor functional areas, access and landscaping improvements, bicycle parking as well as other various improvements. It would not include activities that would impede any bicycle or pedestrian facilities, as all proposed activities would remain within the campus and would improve access for pedestrians and bicycles. Thus, implementation of the Proposed Project would not conflict with any applicable plans, ordinances, or policies establishing measures of effectiveness for the circulation systems, and the impacts would be less than significant.

*b) Would the project Conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?*

**Less than Significant Impact.** The Proposed Project site is located within one-half mile of Altadena/Marengo and Altadena/Lake transit stops along E. Altadena Drive. The proximity to multiple transit stops would result in a less than significant impact associated with transportation. Further, the Proposed Project would not induce population growth; it does not include development of land uses that would increase vehicle travel to and from the area. Thus, the impact would be less than significant as a result of implementation of the Proposed Project.

*c) Would the project substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?*

**Less than Significant Impact**. The Proposed Project includes a new driveway with delivery and staff parking from Mariposa Street. The driveway would be approximately 50 feet to the east of the

Altadena Senior Center driveway and would not result in increased hazards due to design features. The changes would occur on the Project site and do not include significant adjustments to the roadways or signals. The Proposed Project uses are compatible with the existing land uses. Less than significant impacts would occur associated with hazards due to a design feature or incompatible uses.

*d) Would the project result in inadequate emergency access?*

**No Impact.** All work proposed as a part of the Project would occur entirely within the Main site. There would be an additional parking area near the main entrance so access may be improved. There are no proposed changes to the roadways that would result in inadequate emergency access. No impact would occur.

## 4.18 TRIBAL CULTURAL RESOURCES

| 18. | **TRIBAL CULTURAL RESOURCES.** **Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:** | **Potentially Significant Impact** | **Less than Significant With Mitigation Incorporated** | **Less Than Significant Impact** | **No Impact** |
|---|---|---|---|---|---|
| (a) | Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or | ☐ | ☐ | ☐ | ☐ |
| (b) | A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe. | ☐ | ☐ | ☐ | ☐ |

### 4.18.1 Environmental Setting

### 4.18.2 Impact Analysis

a) *Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k)?*

b) *Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is a resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe?*

## 4.19 UTILITIES AND SERVICE SYSTEMS

| 19. | UTILITIES/SERVICE SYSTEMS. Would the project: | Potentially Significant Impact | Less than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|---|
| (a) | Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects? | ☐ | ☐ | ☒ | ☐ |
| (b) | Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years? | ☐ | ☐ | ☒ | ☐ |
| (c) | Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments? | ☐ | ☐ | ☒ | ☐ |
| (d) | Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals? | ☐ | ☐ | ☒ | ☐ |
| (e) | Negatively impact the provision of solid waste services or impair the attainment of solid waste reduction goals? | ☐ | ☐ | ☒ | ☐ |
| (f) | Comply with federal, state, and local management and reduction statutes and regulations related to solid wastes? | ☐ | ☐ | ☒ | ☐ |

### 4.19.1 Impact Analysis

*a) Would the project require or result in the relocation or construction of new or expanded water, wastewater treatment or stormwater drainage, electric power, natural gas, or telecommunications facilities, the construction or expansion of which could cause significant environmental effects?*

**Less than Significant Impact.** As noted in previous sections, implementation of the Proposed Project would not result in a substantial increase in usage or size in population. Interior renovations do include additional restrooms for access purposes. However, the volume of people using the library would not increase so there should not be an increase in wastewater or water usage. The existing facility already maintains connections for water, wastewater, electric power, and telecommunication facilities. The Proposed Project would use existing connections and would not require relocation or construction of new utility facilities. Thus, after construction, the generation of wastewater and water usage on the Proposed Project site may be improved from existing conditions with irrigation and infrastructure upgrades or remain about the same. Therefore, implementation of the Proposed Project would result in less than significant impacts associated with water and/or wastewater facilities.

*b) Would the project have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal dry and multiple dry years?*

**Less than Significant.** The community of Altadena including the Proposed Project site is served by the Lincoln Avenue Water Company, which receives its water supply from groundwater, surface water, and imported water from Metropolitan Water District sources (Lincoln Avenue Water Company 2021). The Proposed Project does not involve increases in staff populations at the library, and no substantial increase in water supply requirements associated with the project. In addition, the District would comply with local, regional, and State water conservation policies and would follow standard BMPs in order to reduce water consumption. The additional restrooms would not significantly increase water usage at the site because there would not be an increase library patronage and the new restrooms are being added for accessibility. Improvements to the plumbing infrastructure and landscape irrigations system would improve water use efficiency. Implementation of the Proposed Project would result in a less than significant impact associated with available water supplies.

*c) Would the project result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?*

**Less than Significant.** The Proposed Project would be located on an existing developed site with established sewer line connections that are currently serviced by the County of Los Angeles Sanitation Districts. Further, as noted previously, the Proposed Project would not result in a substantial increase in staff or resident usage; however additional restrooms are included in the interior renovations for accessibility. The additional restrooms would not create a significant net increase in wastewater generation in the region. Therefore, implementation of the Proposed Project would not result in an impact associated with new or expanded wastewater treatment facilities.

*d) Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?*

**Less than Significant Impact.** The County of Los Angeles Sanitation Districts requires any solid waste produced in association with the Proposed Project to be sent to the Scholl Canyon Landfill in Glendale. As noted in previous responses, the Proposed Project would not result in an increase in the

surrounding population; therefore, the Project would not have the potential to result in an increase in waste generation once in operation. During construction, the Proposed Project would result in the generation of solid wastes such as scrap, lumber, concrete, plastics, packaging material, and kitchen and bathroom fixtures. The County of Los Angeles complies with California Department of Resources Recycling and Recovery (CalRecycle) regulations requiring 65% of all construction and demolition (C&D) materials to be recycled. Furthermore, impacts from construction activities would be short term and intermittent and would be mitigated by BMPs and compliance with existing State solid waste reduction statutes. Incorporation of these programs would result in impacts that are less than significant in association with exceeding capacity of local infrastructure or attainment of solid waste reduction goals.

*e) Would the project negatively impact the provision of solid waste services or impair the attainment of solid waste reduction goals?*

*f) Would the project comply with federal, state, and local management and reduction statutes and regulations related to solid waste?*

*e and f*) **Less than Significant Impact.** The Proposed Project would not result in a substantial increase in solid waste generation or an increase in population and therefore would not result in an increase in operational solid waste. Thus, the operation of the Proposed Project would not result in an increase in waste generation beyond existing conditions. However, as noted in response 4.19.1 d), the construction activities would generate solid waste materials. During construction and operation of the Proposed Project, the District would comply with all County and State solid waste diversion, reduction, and recycling mandates, including compliance with the county-wide Integrated Waste Management Plan (IWMP). Implementation of material recovery, reuse, and recycling would result in less than significant impact associated with waste regulations.

## 4.20 WILDFIRE

| 20. | WILDFIRE. If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project: | Potentially Significant Impact | Less than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|---|
| (a) | Substantially impair an adopted emergency response plan or emergency evacuation plan? | ☐ | ☐ | ☐ | ☒ |
| (b) | Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire? | ☐ | ☐ | ☐ | ☒ |
| (c) | Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment? | ☐ | ☐ | ☐ | ☒ |
| (d) | Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes? | ☐ | ☐ | ☒ | ☐ |

### 4.20.1 Impact Analysis

*a) Would the project impair an adopted emergency response plan or emergency evacuation plan?*

**No Impact.** The Project site at Main Library is not located within a State- or locally classified very high fire hazard severity zone (Cal Fire 2023). Additionally, as noted in Impact 4.17, the Project would not result in any hindrance to emergency access routes and would not interfere with any adopted emergency response or evacuation plans. No impacts would occur associated with an adopted emergency or evacuation plan.

*b) Would the project, due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?*

**No Impact.** As discussed in Impact 4.20 (a), the Project site is located outside of the State and locally classified very high fire hazard severity zone. The Main is located within established and built-out urbanized environment. No impact would occur associated with exacerbating wildland fire risks.

*c) Would the project require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines, or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?*

**No Impact.** All proposed activities would occur within the Main campus, which is not located within a very high fire hazard severity zone. Additionally, the Project would not include any activities involving installation or maintenance of roads, fuel breaks, emergency water sources, or other utilities that may exacerbate a fire risk. No impact would occur that would exacerbate wildland fire risks.

*d) Would the project expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability or drainage changes?*

**Less Than Significant.** The Project site is not located within a very high fire hazard severity zone (Cal Fire 2022). The topography of the site slopes gradually to the south (Architectural Resources Group 2020). The Main is built onto the existing slope of the library grounds. As discussed in Impact 4.7.1 (a)iv) the Project site not identified by the Department of Conservation's EQZapp Program as an area prone to seismically induced landslides (DOC 2021) and would not pose a risk of post-fire induced landslides. Therefore, the impacts associated with post fire slope instability would be less than significant.

## 4.21 MANDATORY FINDINGS OF SIGNIFICANCE

| 21. | MANDATORY FINDINGS OF SIGNIFICANCE. | Potentially Significant Impact | Less than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|---|
| (a) | Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory? | ☒ | ☐ | ☐ | ☐ |
| (b) | Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects?) | ☐ | ☐ | ☒ | ☐ |
| (c) | Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly? | ☐ | ☐ | ☒ | ☐ |

### 4.21.1 Impact Analysis

a) *Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?*

**Potentially Significant.** The Proposed Project would not have a significant impact on any fish, wildlife, or habitat. Project Design Features will be implemented to minimize or avoid the Proposed Project's environmental effects to nesting birds. Mitigation Measure Bio-1 would reduce impacts associated with conflicts with County ordinances to less than significant by determining the extent of tree replacement (size, type, and number) with the County. Therefore, the Proposed Project activities, including the implementation of the project design features noted in the project description, would have a less than significant impact on degrading the quality of the environment associated with biological resources.

The interior and exterior modifications proposed as a part of the Project would result in the loss of an overall loss of integrity of materials, design, workmanship, and feeling of the historic character-defining features of the Main Library. Mitigation measures CUL-1 and CUL-3 would reduce the severity of the impacts to the Main Library's historic character but would not reduce them to less than significant levels. No known archaeological resources are located on the Proposed Project site. In addition, if any archaeological resources are encountered during construction activities, BMPs noted in Section 1.4.2 related to cultural resources will be followed. The Proposed Project activities, including the implementation of the project design features noted in the project description, would

have a potentially significant impact on degrading the quality of the environment associated with an example of major periods in California history.

b) *Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects?)*

**Less than Significant Impact.** Based on the preceding discussion, with implementation of the BMPs and Project Design Features included in this Initial Study (IS), and compliance with existing regulations, the Proposed Project would not result in any significant adverse impacts which could contribute to a cumulatively considerable impact. A less than significant cumulative impact would occur.

c) *Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?*

**Less than Significant Impact.** The Proposed Project would result in temporary impacts to air quality, noise, and traffic during repair and upgrade activities. The impacts would cease upon completion of construction. However, as discussed in the above analyses for the Project, with implementation of the BMPs and Project Design Features included in this IS, and compliance with existing regulations, the Proposed Project would not result in any unmitigated significant adverse impacts. During operations after the project is completed there would not be a change from existing conditions except for some increase in noise from human voices using the new reading court and amphitheater. This increase would not be outside of the County defined daytime hours and the increase would not be outside of the allowable noise levels for residential land uses. Thus, the Project would not have the potential to result in substantial adverse effects on human beings. As noted in the impact discussions above, a less than significant impact would occur.

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# APPENDIX B – Air Quality Screening Assessment

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January 8, 2025

Christie Robinson
Chambers Group, Inc.
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Costa Mesa, CA 92626

**RE: Altadena Main Library Renovation Project Construction Air Quality Screening Assessment – Altadena**

The purpose of this air quality screening letter is to identify potential air quality impacts, if any, which may be created from the renovation and construction of the Altadena Main Library Expansion project "Project". The Altadena Main Library is located at 600 E. Mariposa Street, Altadena, CA 91001, situated in a residential area surrounded by residences to the South and East across Santa Rosa Avenue, Altadena Senior's Center to the West, and "Camp Mariposa" (owned by the Girl Scouts of Greater Los Angeles Chapter) to the North across E. Mariposa Street. The community of Altadena is in unincorporated Los Angeles County. The existing Branch is approximately 22,000 square feet (SF). A general vicinity map is shown in Figure 1 below.

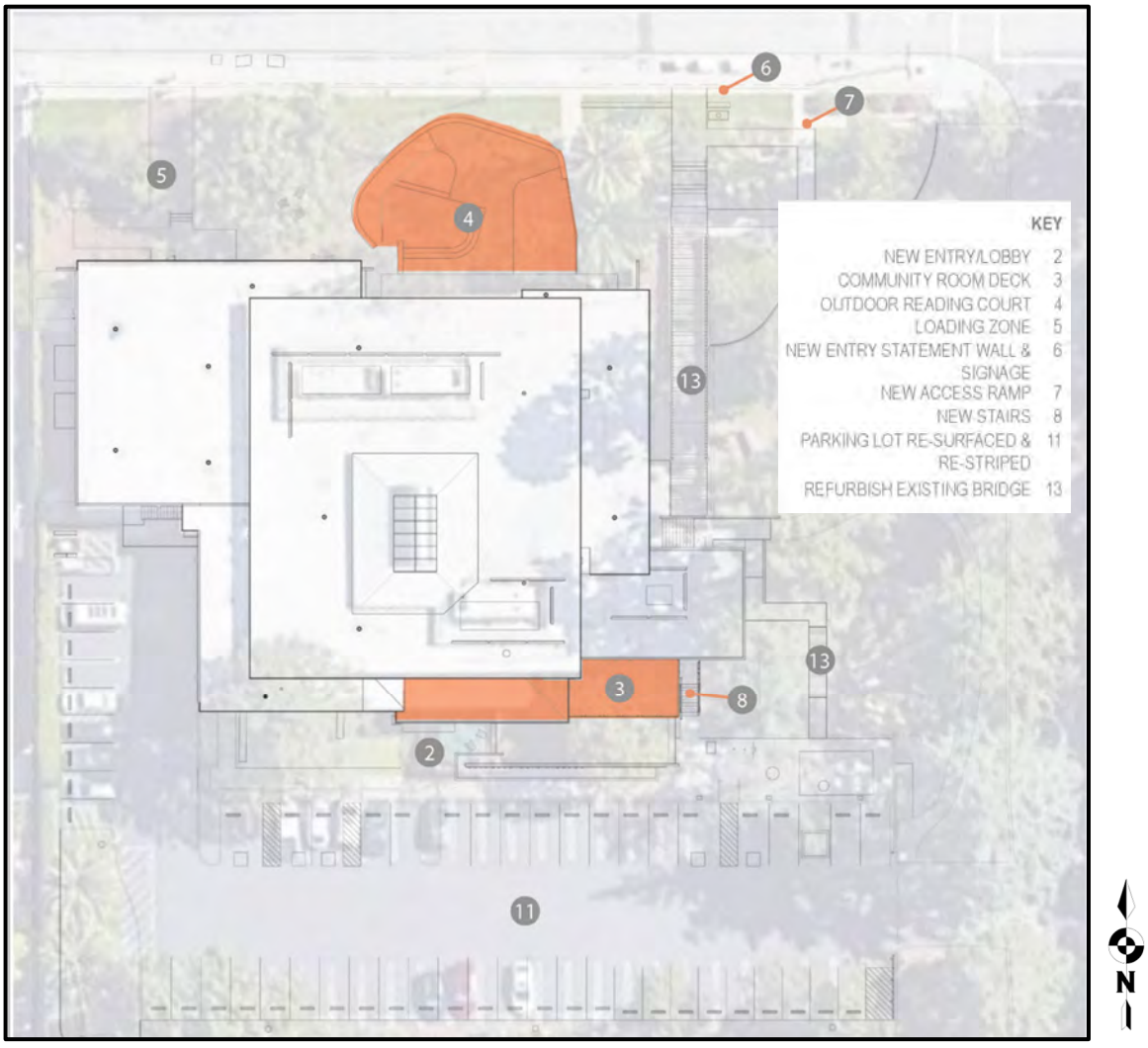
**Figure 1: Project Vicinity Map**




Source: (Google, 2024)

The planned improvements at the Main include an expansion of the building footprint approximately 700 square feet, interior space reconfigurations, access improvements, seismic retrofit, and replacement of aged building infrastructure to address mechanical (elevator and heating, ventilation, and air conditioning [HVAC]), plumbing (including additional and accessible restrooms), and electrical and structural elements of the facility. Infrastructure improvements are expected to include some modernized Audio Visual (AV) spaces with newer technology and updated communications infrastructure and structured cabling. Upgrades to plantings and irrigation and adding outdoor functional spaces are also planned. The Project is expected to occur in one phase, estimated to commence in May 2025 and be completed within 14 months. A proposed site development plan is shown in Figure 2 below.

**Figure 2: Proposed Project Site Development Plan**



The community of Altadena lies within the South Coast Air Basin (SCAB). The South Coast Air Quality Management District (SCAQMD) is the government agency, which regulates sources of air pollution within the district. Construction emissions would be required to conform to all federal, state and local regional air quality laws. The air quality emissions from this project were analyzed using CalEEMod 2022.1 and compared to local significance thresholds.

### *Thresholds of Significance*

To determine whether a project would create potential air quality impacts, Los Angeles County uses SQAQMD Air Quality Thresholds. The screening thresholds for construction and daily operations are shown in Table 1 below.

**Table 1: Screening Threshold for Criteria Pollutants**

| Pollutant | Total Emissions (Pounds per Day) |
|---|---|
| Construction Emissions | |
| Respirable Particulate Matter ($PM_{10}$ and $PM_{2.5}$) | 150 and 55 |
| Nitrogen Oxide ($NO_x$) | 100 |
| Sulfur Oxide ($SO_x$) | 150 |
| Carbon Monoxide (CO) | 550 |
| Volatile Organic Compounds (VOCs) | 75 |

### Localized Significance Analysis

In addition, the County utilizes a Localized Significance Thresholds (LSTs) approach be SCAQMD recommendations. In June 2003, the SCAQMD proposed a methodology for calculating for $NO_2$, O, $PM_{2.5}$ and $PM_{10}$. The LST methodology was developed to be used as a tool to assist lead agencies to analyze localized impacts associated with project-specific level proposed projects and would not be applicable to regional projects such as general plans. The LST methodology was last updated to incorporate the most recent ambient air quality standards (July 2008). (South Coast Air Quality Management District, 2008). The LST methodology is often utilized by most agencies governed under SCAQMD CEQA review. SCAQMD developed mass rate look-up tables for projects to assist agencies with development of LSTs (South Coast Air Quality Management District, 2014).

The LSTs derived by SCAQMD differentiated by Source Receptor area for which the proposed project is would be represented by SRA #8 within the West San Gabriel Valley area. The project was analyzed using a worst-case construction schedule where all buildings and the parking are

under construction simultaneously using the appropriate equipment and quantities for this scenario with a 1-acre disturbed area (Smallest LST lookup area). Table 2 below shows the LST at 25 meters which is the worst-case LST and essentially represents the project property line for the site (SCAQMD, 2009).

**Table 2: LST Construction Emission Thresholds (1-Acre Site)**

| Pollutant | LST @ 25 meters (lb/day) |
|---|---|
| CO | 535 |
| $PM_{10}$ | 4 |
| $PM_{2.5}$ | 3 |
| $NO_2$ (Corrected utilizing $NO_2/NO_x$ Ratio) Construction and Operation | 69 |

## Project Related Construction Emissions

Air Quality impacts related to construction and daily operations were calculated using CalEEMod 2022.1 air quality model, which was developed by South Coast Air Quality Management District (SCAQMD).

The proposed construction schedule and construction equipment list is identified in Table 3. The site is 1.72 acres in size.

**Table 3: Proposed Construction Phase and Duration**

| Equipment Identification | Proposed Start | Proposed Completion | Quantity |
|---|---|---|---|
| **Demolition** | 5/1/2025 | 5/21/2025 | |
| Skid Steer Loaders | | | 1 |
| Concrete/Industrial Saws | | | 1 |
| **Grading** | 5/22/2025 | 5/23/2025 | |
| Tractors/Loaders/Backhoes | | | 1 |
| Skid Steer Loaders | | | 1 |
| **Building Construction (Interior Renovation)** | 6/15/2025 | 8/24/2025 | |
| Forklifts | | | 1 |
| **Building Construction (Building Expansion)** | 8/25/2025 | 10/31/2025 | |
| Cranes | | | 1 |
| Forklifts | | | 1 |
| Skid Steer Loaders | | | 1 |

| Equipment Identification | Proposed Start | Proposed Completion | Quantity |
|---|---|---|---|
| Concrete/Industrial Saws | | | 1 |
| **Building Construction (Exterior Improvements)** | 11/1/2025 | 3/20/2026 | |
| Skid Steer Loaders | | | 1 |
| Aerial Lifts | | | |
| **Paving** | 10/9/2025 | 10/16/2025 | |
| Cement and Mortar Mixers | | | 4 |
| Pavers | | | 1 |
| Rollers | | | 1 |
| Tractors/Loaders/Backhoes | | | 1 |
| **Architectural Coating** | 3/1/2026 | 3/6/2026 | |
| Air Compressors | | | 1 |
| This equipment list is based upon equipment inventory and estimates within CalEEMod 2022.1 | | | |

It should be noted that construction equipment is typically Tier 4 as defined by the U.S. EPA however for purposes of this analysis it was assumed that equipment is Tier 3 or better. The construction emissions as calculated in CalEEMod are shown in Table 4. In addition, the project would be expected to follow Best Management Practices (BMPs) which would include keeping the soil wet to reduce dust during demolition, site preparation and grading activities or whenever open soil is exposed and disturbed during construction activities. The Project modeling outputs from CalEEMod are provided as ***Attachment A***.

**Table 4: Expected Maximum Daily Construction Emissions Lb/Day**

| Year | ROG | $NO_x$ | CO | $SO_2$ | $PM_{10}$ (Exhaust) | $PM_{10}$ (Dust) | $PM_{10}$ (Total) | $PM_{2.5}$ (Exhaust) | $PM_{2.5}$ (Dust) | $PM_{2.5}$ (Total) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2025 (lb/day) | 0.64 | 8.2 | 11.1 | 0.02 | 0.06 | 0.36 | 0.41 | 0.05 | 0.08 | 0.14 |
| 2026 (lb/day) | 43.4 | 3.1 | 3.73 | 0.01 | 0.03 | 0.18 | 0.21 | 0.03 | 0.04 | 0.07 |
| **Significance Threshold (lb/day)** | **75** | **100** | **550** | **150** | **-** | **-** | **150** | **-** | **-** | **55** |
| **LST Screening Threshold (lb/day)** | - | **69** | **535** | - | - | - | **4** | - | - | **3** |
| **Exceeds Thresholds?** | **No** | **No** | **No** | **No** | **-** | **-** | **No** | **-** | **-** | **No** |
| Expected Construction emissions are based upon CalEEMod 2022.1 modeling assumptions for equipment and durations listed in Table 2 above using Tier 3 equipment. | | | | | | | | | | |

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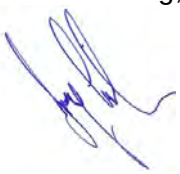
## Project Related Operational Emissions

The Proposed Project's operations would remain consistent with current library use and are not expected to increase traffic generation or intensity. Emissions from the existing library's operations are accounted for in the existing ambient air quality background emissions and no additional operational emissions from the library are anticipated following the renovations. It should be noted however, the planned renovations would improve energy efficiency, which may reduce air quality emissions overall but were not calculated as part of this analysis. Given these Project observations, the Project's operational emissions would remain negligible and would result in a less than significant air quality impact.

Per this analysis, no construction air quality impacts are anticipated. If you have any questions, please do not hesitate to contact me directly at (760) 473-1253.

Sincerely,
Ldn Consulting, Inc.



Jeremy Louden, Principal

**Attachments:** CalEEMod Results

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# 1. Basic Project Information

## 1.1. Basic Project Information

| Data Field | Value |
|---|---|
| Project Name | Altadena Library Renovation |
| Construction Start Date | 5/1/2025 |
| Lead Agency | — |
| Land Use Scale | Project/site |
| Analysis Level for Defaults | County |
| Windspeed (m/s) | 2.50 |
| Precipitation (days) | 5.20 |
| Location | 600 E Mariposa St, Altadena, CA 91001, USA |
| County | Los Angeles-South Coast |
| City | Unincorporated |
| Air District | South Coast AQMD |
| Air Basin | South Coast |
| TAZ | 4932 |
| EDFZ | 7 |
| Electric Utility | Southern California Edison |
| Gas Utility | Southern California Gas |
| App Version | 2022.1.1.29 |

## 1.2. Land Use Types

| Land Use Subtype | Size | Unit | Lot Acreage | Building Area (sq ft) | Landscape Area (sq ft) | Special Landscape Area (sq ft) | Population | Description |
|---|---|---|---|---|---|---|---|---|
| Government (Civic Center) | 22.7 | 1000sqft | 0.52 | 22,700 | 25,000 | — | — | — |
| Parking Lot | 50.0 | Space | 0.45 | 0.00 | 25,000 | — | — | — |

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

| Sector | # | Measure Title |
|---|---|---|
| Construction | C-6 | Use Diesel Particulate Filters |

# 2. Emissions Summary

### 2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Un/Mit. | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 0.19 | 4.38 | 5.54 | 0.01 | 0.21 | 0.13 | 0.33 | 0.19 | 0.03 | 0.22 | — | 1,073 | 1,073 | 0.04 | 0.03 | 1,082 |
| Mit. | 0.19 | 4.38 | 5.54 | 0.01 | 0.03 | 0.13 | 0.16 | 0.03 | 0.03 | 0.06 | — | 1,073 | 1,073 | 0.04 | 0.03 | 1,082 |
| % Reduced | — | — | — | — | 84% | — | 52% | 85% | — | 73% | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 43.4 | 8.20 | 11.1 | 0.02 | 0.38 | 0.36 | 0.73 | 0.34 | 0.08 | 0.43 | — | 2,120 | 2,120 | 0.09 | 0.04 | 2,135 |
| Mit. | 43.4 | 8.20 | 11.1 | 0.02 | 0.06 | 0.36 | 0.41 | 0.05 | 0.08 | 0.14 | — | 2,120 | 2,120 | 0.09 | 0.04 | 2,135 |
| % Reduced | — | — | — | — | 85% | — | 43% | 85% | — | 68% | — | — | — | — | — | — |
| Average Daily (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 0.61 | 1.13 | 1.47 | < 0.005 | 0.06 | 0.06 | 0.11 | 0.05 | 0.01 | 0.07 | — | 291 | 291 | 0.01 | 0.01 | 294 |
| Mit. | 0.61 | 1.13 | 1.47 | < 0.005 | 0.01 | 0.06 | 0.07 | 0.01 | 0.01 | 0.02 | — | 291 | 291 | 0.01 | 0.01 | 294 |
| % Reduced | — | — | — | — | 84% | — | 42% | 84% | — | 67% | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Annual (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 0.11 | 0.21 | 0.27 | < 0.005 | 0.01 | 0.01 | 0.02 | 0.01 | < 0.005 | 0.01 | — | 48.1 | 48.1 | < 0.005 | < 0.005 | 48.7 |
| Mit. | 0.11 | 0.21 | 0.27 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 48.1 | 48.1 | < 0.005 | < 0.005 | 48.7 |
| % Reduced | — | — | — | — | 84% | — | 42% | 84% | — | 67% | — | — | — | — | — | — |

## 2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Year | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily - Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2025 | 0.19 | 4.38 | 5.54 | 0.01 | 0.21 | 0.13 | 0.33 | 0.19 | 0.03 | 0.22 | — | 1,073 | 1,073 | 0.04 | 0.03 | 1,082 |
| Daily - Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2025 | 0.64 | 8.20 | 11.1 | 0.02 | 0.38 | 0.36 | 0.73 | 0.34 | 0.08 | 0.43 | — | 2,120 | 2,120 | 0.09 | 0.04 | 2,135 |
| 2026 | 43.4 | 3.10 | 3.73 | 0.01 | 0.19 | 0.18 | 0.37 | 0.17 | 0.04 | 0.22 | — | 693 | 693 | 0.03 | 0.03 | 702 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2025 | 0.06 | 1.13 | 1.47 | < 0.005 | 0.06 | 0.06 | 0.11 | 0.05 | 0.01 | 0.07 | — | 291 | 291 | 0.01 | 0.01 | 294 |
| 2026 | 0.61 | 0.32 | 0.41 | < 0.005 | 0.02 | 0.02 | 0.04 | 0.02 | < 0.005 | 0.02 | — | 80.7 | 80.7 | < 0.005 | < 0.005 | 81.9 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2025 | 0.01 | 0.21 | 0.27 | < 0.005 | 0.01 | 0.01 | 0.02 | 0.01 | < 0.005 | 0.01 | — | 48.1 | 48.1 | < 0.005 | < 0.005 | 48.7 |
| 2026 | 0.11 | 0.06 | 0.07 | < 0.005 | < 0.005 | < 0.005 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 13.4 | 13.4 | < 0.005 | < 0.005 | 13.6 |

## 2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Year | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily - Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2025 | 0.19 | 4.38 | 5.54 | 0.01 | 0.03 | 0.13 | 0.16 | 0.03 | 0.03 | 0.06 | — | 1,073 | 1,073 | 0.04 | 0.03 | 1,082 |
| Daily - Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2025 | 0.64 | 8.20 | 11.1 | 0.02 | 0.06 | 0.36 | 0.41 | 0.05 | 0.08 | 0.14 | — | 2,120 | 2,120 | 0.09 | 0.04 | 2,135 |
| 2026 | 43.4 | 3.10 | 3.73 | 0.01 | 0.03 | 0.18 | 0.21 | 0.03 | 0.04 | 0.07 | — | 693 | 693 | 0.03 | 0.03 | 702 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2025 | 0.06 | 1.13 | 1.47 | < 0.005 | 0.01 | 0.06 | 0.07 | 0.01 | 0.01 | 0.02 | — | 291 | 291 | 0.01 | 0.01 | 294 |
| 2026 | 0.61 | 0.32 | 0.41 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | 0.01 | — | 80.7 | 80.7 | < 0.005 | < 0.005 | 81.9 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2025 | 0.01 | 0.21 | 0.27 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 48.1 | 48.1 | < 0.005 | < 0.005 | 48.7 |
| 2026 | 0.11 | 0.06 | 0.07 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 13.4 | 13.4 | < 0.005 | < 0.005 | 13.6 |

# 3. Construction Emissions Details

## 3.1. Demolition (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.12 | 2.92 | 3.03 | < 0.005 | 0.18 | — | 0.18 | 0.17 | — | 0.17 | — | 428 | 428 | 0.02 | < 0.005 | 429 |
| Demolition | — | — | — | — | — | 0.02 | 0.02 | — | < 0.005 | < 0.005 | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.12 | 0.12 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 17.6 | 17.6 | < 0.005 | < 0.005 | 17.6 |
| Demolition | — | — | — | — | — | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 2.91 | 2.91 | < 0.005 | < 0.005 | 2.92 |
| Demolition | — | — | — | — | — | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.02 | 0.02 | 0.35 | 0.00 | 0.00 | 0.07 | 0.07 | 0.00 | 0.02 | 0.02 | — | 69.1 | 69.1 | < 0.005 | < 0.005 | 70.2 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | < 0.005 | 0.02 | 0.01 | < 0.005 | < 0.005 | < 0.005 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 18.5 | 18.5 | < 0.005 | < 0.005 | 19.4 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 2.73 | 2.73 | < 0.005 | < 0.005 | 2.77 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.76 | 0.76 | < 0.005 | < 0.005 | 0.80 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.45 | 0.45 | < 0.005 | < 0.005 | 0.46 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.13 | 0.13 | < 0.005 | < 0.005 | 0.13 |

## 3.2. Demolition (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.12 | 2.92 | 3.03 | < 0.005 | 0.03 | — | 0.03 | 0.03 | — | 0.03 | — | 428 | 428 | 0.02 | < 0.005 | 429 |
| Demolition | — | — | — | — | — | 0.02 | 0.02 | — | < 0.005 | < 0.005 | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.12 | 0.12 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 17.6 | 17.6 | < 0.005 | < 0.005 | 17.6 |
| Demolition | — | — | — | — | — | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 2.91 | 2.91 | < 0.005 | < 0.005 | 2.92 |
| Demolition | — | — | — | — | — | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.02 | 0.02 | 0.35 | 0.00 | 0.00 | 0.07 | 0.07 | 0.00 | 0.02 | 0.02 | — | 69.1 | 69.1 | < 0.005 | < 0.005 | 70.2 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | < 0.005 | 0.02 | 0.01 | < 0.005 | < 0.005 | < 0.005 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 18.5 | 18.5 | < 0.005 | < 0.005 | 19.4 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 2.73 | 2.73 | < 0.005 | < 0.005 | 2.77 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.76 | 0.76 | < 0.005 | < 0.005 | 0.80 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.45 | 0.45 | < 0.005 | < 0.005 | 0.46 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.13 | 0.13 | < 0.005 | < 0.005 | 0.13 |

## 3.3. Grading (2025) - Unmitigated

### Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.07 | 2.27 | 3.06 | < 0.005 | 0.12 | — | 0.12 | 0.11 | — | 0.11 | — | 438 | 438 | 0.02 | < 0.005 | 439 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dust From Material Movement | — | — | — | — | — | 0.00 | 0.00 | — | 0.00 | 0.00 | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | 0.01 | 0.02 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 2.40 | 2.40 | < 0.005 | < 0.005 | 2.41 |
| Dust From Material Movement | — | — | — | — | — | 0.00 | 0.00 | — | 0.00 | 0.00 | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 0.40 | 0.40 | < 0.005 | < 0.005 | 0.40 |
| Dust From Material Movement | — | — | — | — | — | 0.00 | 0.00 | — | 0.00 | 0.00 | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.02 | 0.02 | 0.35 | 0.00 | 0.00 | 0.07 | 0.07 | 0.00 | 0.02 | 0.02 | — | 69.1 | 69.1 | < 0.005 | < 0.005 | 70.2 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.36 | 0.36 | < 0.005 | < 0.005 | 0.37 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.06 | 0.06 | < 0.005 | < 0.005 | 0.06 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.4. Grading (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.07 | 2.27 | 3.06 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 438 | 438 | 0.02 | < 0.005 | 439 |
| Dust From Material Movement | — | — | — | — | — | 0.00 | 0.00 | — | 0.00 | 0.00 | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Off-Road Equipment | < 0.005 | 0.01 | 0.02 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 2.40 | 2.40 | < 0.005 | < 0.005 | 2.41 |
| Dust From Material Movement | — | — | — | — | — | 0.00 | 0.00 | — | 0.00 | 0.00 | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 0.40 | 0.40 | < 0.005 | < 0.005 | 0.40 |
| Dust From Material Movement | — | — | — | — | — | 0.00 | 0.00 | — | 0.00 | 0.00 | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.02 | 0.02 | 0.35 | 0.00 | 0.00 | 0.07 | 0.07 | 0.00 | 0.02 | 0.02 | — | 69.1 | 69.1 | < 0.005 | < 0.005 | 70.2 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.36 | 0.36 | < 0.005 | < 0.005 | 0.37 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.06 | 0.06 | < 0.005 | < 0.005 | 0.06 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.5. Building Construction (Interior Renovation) (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.02 | 0.59 | 0.80 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 114 | 114 | < 0.005 | < 0.005 | 115 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | 0.08 | 0.11 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 15.7 | 15.7 | < 0.005 | < 0.005 | 15.7 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | 0.01 | 0.02 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 2.59 | 2.59 | < 0.005 | < 0.005 | 2.60 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.03 | 0.03 | 0.51 | 0.00 | 0.00 | 0.09 | 0.09 | 0.00 | 0.02 | 0.02 | — | 100 | 100 | < 0.005 | < 0.005 | 102 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Vendor | < 0.005 | 0.13 | 0.07 | < 0.005 | < 0.005 | 0.03 | 0.03 | < 0.005 | 0.01 | 0.01 | — | 118 | 118 | < 0.005 | 0.02 | 123 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | 0.01 | 0.06 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 13.2 | 13.2 | < 0.005 | < 0.005 | 13.4 |
| Vendor | < 0.005 | 0.02 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 16.2 | 16.2 | < 0.005 | < 0.005 | 16.9 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 2.19 | 2.19 | < 0.005 | < 0.005 | 2.22 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 2.68 | 2.68 | < 0.005 | < 0.005 | 2.80 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.6. Building Construction (Interior Renovation) (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.02 | 0.59 | 0.80 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 114 | 114 | < 0.005 | < 0.005 | 115 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Off-Road Equipment | < 0.005 | 0.08 | 0.11 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 15.7 | 15.7 | < 0.005 | < 0.005 | 15.7 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | 0.01 | 0.02 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 2.59 | 2.59 | < 0.005 | < 0.005 | 2.60 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.03 | 0.03 | 0.51 | 0.00 | 0.00 | 0.09 | 0.09 | 0.00 | 0.02 | 0.02 | — | 100 | 100 | < 0.005 | < 0.005 | 102 |
| Vendor | < 0.005 | 0.13 | 0.07 | < 0.005 | < 0.005 | 0.03 | 0.03 | < 0.005 | 0.01 | 0.01 | — | 118 | 118 | < 0.005 | 0.02 | 123 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | 0.01 | 0.06 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 13.2 | 13.2 | < 0.005 | < 0.005 | 13.4 |
| Vendor | < 0.005 | 0.02 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 16.2 | 16.2 | < 0.005 | < 0.005 | 16.9 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 2.19 | 2.19 | < 0.005 | < 0.005 | 2.22 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 2.68 | 2.68 | < 0.005 | < 0.005 | 2.80 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.7. Building Constrcution (Building Expansion) (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.16 | 4.22 | 4.96 | 0.01 | 0.20 | — | 0.20 | 0.19 | — | 0.19 | — | 854 | 854 | 0.03 | 0.01 | 857 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.16 | 4.22 | 4.96 | 0.01 | 0.20 | — | 0.20 | 0.19 | — | 0.19 | — | 854 | 854 | 0.03 | 0.01 | 857 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.02 | 0.58 | 0.68 | < 0.005 | 0.03 | — | 0.03 | 0.03 | — | 0.03 | — | 117 | 117 | < 0.005 | < 0.005 | 117 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | 0.11 | 0.12 | < 0.005 | 0.01 | — | 0.01 | < 0.005 | — | < 0.005 | — | 19.4 | 19.4 | < 0.005 | < 0.005 | 19.4 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.03 | 0.03 | 0.51 | 0.00 | 0.00 | 0.09 | 0.09 | 0.00 | 0.02 | 0.02 | — | 100 | 100 | < 0.005 | < 0.005 | 102 |
| Vendor | < 0.005 | 0.13 | 0.07 | < 0.005 | < 0.005 | 0.03 | 0.03 | < 0.005 | 0.01 | 0.01 | — | 118 | 118 | < 0.005 | 0.02 | 123 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.03 | 0.03 | 0.43 | 0.00 | 0.00 | 0.09 | 0.09 | 0.00 | 0.02 | 0.02 | — | 95.2 | 95.2 | < 0.005 | < 0.005 | 96.4 |
| Vendor | < 0.005 | 0.14 | 0.07 | < 0.005 | < 0.005 | 0.03 | 0.03 | < 0.005 | 0.01 | 0.01 | — | 118 | 118 | < 0.005 | 0.02 | 123 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | 0.01 | 0.06 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 13.2 | 13.2 | < 0.005 | < 0.005 | 13.4 |
| Vendor | < 0.005 | 0.02 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 16.2 | 16.2 | < 0.005 | < 0.005 | 16.9 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 2.19 | 2.19 | < 0.005 | < 0.005 | 2.22 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 2.68 | 2.68 | < 0.005 | < 0.005 | 2.80 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.8. Building Constrcution (Building Expansion) (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.16 | 4.22 | 4.96 | 0.01 | 0.03 | — | 0.03 | 0.03 | — | 0.03 | — | 854 | 854 | 0.03 | 0.01 | 857 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.16 | 4.22 | 4.96 | 0.01 | 0.03 | — | 0.03 | 0.03 | — | 0.03 | — | 854 | 854 | 0.03 | 0.01 | 857 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.02 | 0.58 | 0.68 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 117 | 117 | < 0.005 | < 0.005 | 117 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | 0.11 | 0.12 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 19.4 | 19.4 | < 0.005 | < 0.005 | 19.4 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.03 | 0.03 | 0.51 | 0.00 | 0.00 | 0.09 | 0.09 | 0.00 | 0.02 | 0.02 | — | 100 | 100 | < 0.005 | < 0.005 | 102 |
| Vendor | < 0.005 | 0.13 | 0.07 | < 0.005 | < 0.005 | 0.03 | 0.03 | < 0.005 | 0.01 | 0.01 | — | 118 | 118 | < 0.005 | 0.02 | 123 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.03 | 0.03 | 0.43 | 0.00 | 0.00 | 0.09 | 0.09 | 0.00 | 0.02 | 0.02 | — | 95.2 | 95.2 | < 0.005 | < 0.005 | 96.4 |
| Vendor | < 0.005 | 0.14 | 0.07 | < 0.005 | < 0.005 | 0.03 | 0.03 | < 0.005 | 0.01 | 0.01 | — | 118 | 118 | < 0.005 | 0.02 | 123 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | 0.01 | 0.06 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 13.2 | 13.2 | < 0.005 | < 0.005 | 13.4 |
| Vendor | < 0.005 | 0.02 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 16.2 | 16.2 | < 0.005 | < 0.005 | 16.9 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Worker | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 2.19 | 2.19 | < 0.005 | < 0.005 | 2.22 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 2.68 | 2.68 | < 0.005 | < 0.005 | 2.80 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.9. Building Construction (Exterior Improvements) (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.07 | 1.83 | 2.06 | < 0.005 | 0.12 | — | 0.12 | 0.11 | — | 0.11 | — | 294 | 294 | 0.01 | < 0.005 | 295 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.22 | 0.25 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 35.1 | 35.1 | < 0.005 | < 0.005 | 35.3 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | 0.04 | 0.04 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 5.82 | 5.82 | < 0.005 | < 0.005 | 5.84 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.03 | 0.03 | 0.43 | 0.00 | 0.00 | 0.09 | 0.09 | 0.00 | 0.02 | 0.02 | — | 95.2 | 95.2 | < 0.005 | < 0.005 | 96.4 |
| Vendor | < 0.005 | 0.14 | 0.07 | < 0.005 | < 0.005 | 0.03 | 0.03 | < 0.005 | 0.01 | 0.01 | — | 118 | 118 | < 0.005 | 0.02 | 123 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | 0.05 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 11.5 | 11.5 | < 0.005 | < 0.005 | 11.7 |
| Vendor | < 0.005 | 0.02 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 14.1 | 14.1 | < 0.005 | < 0.005 | 14.7 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 1.91 | 1.91 | < 0.005 | < 0.005 | 1.94 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 2.33 | 2.33 | < 0.005 | < 0.005 | 2.44 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.10. Building Construction (Exterior Improvements) (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.07 | 1.83 | 2.06 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 294 | 294 | 0.01 | < 0.005 | 295 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Off-Road Equipment | 0.01 | 0.22 | 0.25 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 35.1 | 35.1 | < 0.005 | < 0.005 | 35.3 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | 0.04 | 0.04 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 5.82 | 5.82 | < 0.005 | < 0.005 | 5.84 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.03 | 0.03 | 0.43 | 0.00 | 0.00 | 0.09 | 0.09 | 0.00 | 0.02 | 0.02 | — | 95.2 | 95.2 | < 0.005 | < 0.005 | 96.4 |
| Vendor | < 0.005 | 0.14 | 0.07 | < 0.005 | < 0.005 | 0.03 | 0.03 | < 0.005 | 0.01 | 0.01 | — | 118 | 118 | < 0.005 | 0.02 | 123 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | 0.05 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 11.5 | 11.5 | < 0.005 | < 0.005 | 11.7 |
| Vendor | < 0.005 | 0.02 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 14.1 | 14.1 | < 0.005 | < 0.005 | 14.7 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 1.91 | 1.91 | < 0.005 | < 0.005 | 1.94 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 2.33 | 2.33 | < 0.005 | < 0.005 | 2.44 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.11. Building Construction (Exterior Improvements) (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.07 | 1.83 | 2.06 | < 0.005 | 0.12 | — | 0.12 | 0.11 | — | 0.11 | — | 294 | 294 | 0.01 | < 0.005 | 295 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.28 | 0.32 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 45.5 | 45.5 | < 0.005 | < 0.005 | 45.7 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | 0.05 | 0.06 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 7.54 | 7.54 | < 0.005 | < 0.005 | 7.56 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.03 | 0.03 | 0.40 | 0.00 | 0.00 | 0.09 | 0.09 | 0.00 | 0.02 | 0.02 | — | 93.3 | 93.3 | < 0.005 | < 0.005 | 94.4 |
| Vendor | < 0.005 | 0.13 | 0.06 | < 0.005 | < 0.005 | 0.03 | 0.03 | < 0.005 | 0.01 | 0.01 | — | 116 | 116 | < 0.005 | 0.02 | 121 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | 0.01 | 0.06 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 14.6 | 14.6 | < 0.005 | < 0.005 | 14.8 |
| Vendor | < 0.005 | 0.02 | 0.01 | < 0.005 | < 0.005 | < 0.005 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 17.9 | 17.9 | < 0.005 | < 0.005 | 18.7 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 2.42 | 2.42 | < 0.005 | < 0.005 | 2.46 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 2.97 | 2.97 | < 0.005 | < 0.005 | 3.10 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.12. Building Construction (Exterior Improvements) (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.07 | 1.83 | 2.06 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 294 | 294 | 0.01 | < 0.005 | 295 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.28 | 0.32 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 45.5 | 45.5 | < 0.005 | < 0.005 | 45.7 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Off-Road Equipment | < 0.005 | 0.05 | 0.06 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 7.54 | 7.54 | < 0.005 | < 0.005 | 7.56 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.03 | 0.03 | 0.40 | 0.00 | 0.00 | 0.09 | 0.09 | 0.00 | 0.02 | 0.02 | — | 93.3 | 93.3 | < 0.005 | < 0.005 | 94.4 |
| Vendor | < 0.005 | 0.13 | 0.06 | < 0.005 | < 0.005 | 0.03 | 0.03 | < 0.005 | 0.01 | 0.01 | — | 116 | 116 | < 0.005 | 0.02 | 121 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | 0.01 | 0.06 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 14.6 | 14.6 | < 0.005 | < 0.005 | 14.8 |
| Vendor | < 0.005 | 0.02 | 0.01 | < 0.005 | < 0.005 | < 0.005 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 17.9 | 17.9 | < 0.005 | < 0.005 | 18.7 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 2.42 | 2.42 | < 0.005 | < 0.005 | 2.46 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 2.97 | 2.97 | < 0.005 | < 0.005 | 3.10 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.13. Paving (2025) - Unmitigated

### Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.14 | 3.73 | 4.58 | 0.01 | 0.17 | — | 0.17 | 0.16 | — | 0.16 | — | 823 | 823 | 0.03 | 0.01 | 826 |
| Paving | 0.24 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | 0.05 | 0.06 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 11.3 | 11.3 | < 0.005 | < 0.005 | 11.3 |
| Paving | < 0.005 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 1.87 | 1.87 | < 0.005 | < 0.005 | 1.87 |
| Paving | < 0.005 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.07 | 0.08 | 1.03 | 0.00 | 0.00 | 0.23 | 0.23 | 0.00 | 0.05 | 0.05 | — | 229 | 229 | 0.01 | 0.01 | 232 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 3.19 | 3.19 | < 0.005 | < 0.005 | 3.23 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.53 | 0.53 | < 0.005 | < 0.005 | 0.53 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.14. Paving (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.14 | 3.73 | 4.58 | 0.01 | 0.03 | — | 0.03 | 0.02 | — | 0.02 | — | 823 | 823 | 0.03 | 0.01 | 826 |
| Paving | 0.24 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | 0.05 | 0.06 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 11.3 | 11.3 | < 0.005 | < 0.005 | 11.3 |
| Paving | < 0.005 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 1.87 | 1.87 | < 0.005 | < 0.005 | 1.87 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Paving | < 0.005 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.07 | 0.08 | 1.03 | 0.00 | 0.00 | 0.23 | 0.23 | 0.00 | 0.05 | 0.05 | — | 229 | 229 | 0.01 | 0.01 | 232 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 3.19 | 3.19 | < 0.005 | < 0.005 | 3.23 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.53 | 0.53 | < 0.005 | < 0.005 | 0.53 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.15. Architectural Coating (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.05 | 1.09 | 0.96 | < 0.005 | 0.07 | — | 0.07 | 0.06 | — | 0.06 | — | 134 | 134 | 0.01 | < 0.005 | 134 |
| Architectural Coatings | 43.2 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 1.83 | 1.83 | < 0.005 | < 0.005 | 1.84 |
| Architectural Coatings | 0.59 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 0.30 | 0.30 | < 0.005 | < 0.005 | 0.30 |
| Architectural Coatings | 0.11 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.02 | 0.02 | 0.24 | 0.00 | 0.00 | 0.06 | 0.06 | 0.00 | 0.01 | 0.01 | — | 56.0 | 56.0 | < 0.005 | < 0.005 | 56.7 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.78 | 0.78 | < 0.005 | < 0.005 | 0.79 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.13 | 0.13 | < 0.005 | < 0.005 | 0.13 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.16. Architectural Coating (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.05 | 1.09 | 0.96 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 134 | 134 | 0.01 | < 0.005 | 134 |
| Architectural Coatings | 43.2 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Off-Road Equipment | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 1.83 | 1.83 | < 0.005 | < 0.005 | 1.84 |
| Architectural Coatings | 0.59 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 0.30 | 0.30 | < 0.005 | < 0.005 | 0.30 |
| Architectural Coatings | 0.11 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.02 | 0.02 | 0.24 | 0.00 | 0.00 | 0.06 | 0.06 | 0.00 | 0.01 | 0.01 | — | 56.0 | 56.0 | < 0.005 | < 0.005 | 56.7 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.78 | 0.78 | < 0.005 | < 0.005 | 0.79 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.13 | 0.13 | < 0.005 | < 0.005 | 0.13 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

# 4. Operations Emissions Details

## 4.10. Soil Carbon Accumulation By Vegetation Type

### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Vegetation | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

### 4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Species | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Avoided | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

### 4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Vegetation | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

### 4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

## 4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Species | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

# 5. Activity Data

## 5.1. Construction Schedule

| Phase Name | Phase Type | Start Date | End Date | Days Per Week | Work Days per Phase | Phase Description |
|---|---|---|---|---|---|---|
| Demolition | Demolition | 5/1/2025 | 5/21/2025 | 5.00 | 15.0 | — |
| Grading | Grading | 5/22/2025 | 5/23/2025 | 5.00 | 2.00 | — |
| Building Construction (Interior Renovation) | Building Construction | 6/15/2025 | 8/24/2025 | 5.00 | 50.0 | — |
| Building Constrcution (Building Expansion) | Building Construction | 8/25/2025 | 10/31/2025 | 5.00 | 50.0 | — |
| Building Construction (Exterior Improvements) | Building Construction | 11/1/2025 | 3/20/2026 | 5.00 | 100 | — |
| Paving | Paving | 10/9/2025 | 10/16/2025 | 5.00 | 5.00 | — |
| Architectural Coating | Architectural Coating | 3/1/2026 | 3/6/2026 | 5.00 | 5.00 | — |

## 5.2. Off-Road Equipment

### 5.2.1. Unmitigated

| Phase Name | Equipment Type | Fuel Type | Engine Tier | Number per Day | Hours Per Day | Horsepower | Load Factor |
|---|---|---|---|---|---|---|---|
| Demolition | Skid Steer Loaders | Diesel | Tier 3 | 1.00 | 6.00 | 71.0 | 0.37 |
| Demolition | Concrete/Industrial Saws | Diesel | Tier 3 | 1.00 | 8.00 | 33.0 | 0.73 |
| Grading | Tractors/Loaders/Backhoes | Diesel | Tier 3 | 1.00 | 7.00 | 84.0 | 0.37 |
| Grading | Skid Steer Loaders | Diesel | Tier 3 | 1.00 | 6.00 | 71.0 | 0.37 |
| Building Construction (Interior Renovation) | Forklifts | Diesel | Tier 3 | 1.00 | 6.00 | 82.0 | 0.20 |
| Building Constrcution (Building Expansion) | Cranes | Diesel | Tier 3 | 1.00 | 4.00 | 367 | 0.29 |
| Building Constrcution (Building Expansion) | Forklifts | Diesel | Tier 3 | 1.00 | 6.00 | 82.0 | 0.20 |
| Building Constrcution (Building Expansion) | Skid Steer Loaders | Diesel | Tier 3 | 1.00 | 6.00 | 71.0 | 0.37 |
| Building Constrcution (Building Expansion) | Concrete/Industrial Saws | Diesel | Tier 3 | 1.00 | 2.00 | 33.0 | 0.73 |
| Building Construction (Exterior Improvements) | Skid Steer Loaders | Diesel | Tier 3 | 1.00 | 6.00 | 71.0 | 0.37 |
| Building Construction (Exterior Improvements) | Aerial Lifts | Diesel | Tier 3 | 1.00 | 6.00 | 46.0 | 0.31 |
| Paving | Cement and Mortar Mixers | Diesel | Tier 3 | 4.00 | 6.00 | 10.0 | 0.56 |
| Paving | Pavers | Diesel | Tier 3 | 1.00 | 7.00 | 81.0 | 0.42 |
| Paving | Rollers | Diesel | Tier 3 | 1.00 | 7.00 | 36.0 | 0.38 |
| Paving | Tractors/Loaders/Backhoes | Diesel | Tier 3 | 1.00 | 7.00 | 84.0 | 0.37 |
| Architectural Coating | Air Compressors | Diesel | Tier 3 | 1.00 | 6.00 | 37.0 | 0.48 |

### 5.2.2. Mitigated

| Phase Name | Equipment Type | Fuel Type | Engine Tier | Number per Day | Hours Per Day | Horsepower | Load Factor |
|---|---|---|---|---|---|---|---|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Demolition | Skid Steer Loaders | Diesel | Tier 3 | 1.00 | 6.00 | 71.0 | 0.37 |
| Demolition | Concrete/Industrial Saws | Diesel | Tier 3 | 1.00 | 8.00 | 33.0 | 0.73 |
| Grading | Tractors/Loaders/Backhoes | Diesel | Tier 3 | 1.00 | 7.00 | 84.0 | 0.37 |
| Grading | Skid Steer Loaders | Diesel | Tier 3 | 1.00 | 6.00 | 71.0 | 0.37 |
| Building Construction (Interior Renovation) | Forklifts | Diesel | Tier 3 | 1.00 | 6.00 | 82.0 | 0.20 |
| Building Constrcution (Building Expansion) | Cranes | Diesel | Tier 3 | 1.00 | 4.00 | 367 | 0.29 |
| Building Constrcution (Building Expansion) | Forklifts | Diesel | Tier 3 | 1.00 | 6.00 | 82.0 | 0.20 |
| Building Constrcution (Building Expansion) | Skid Steer Loaders | Diesel | Tier 3 | 1.00 | 6.00 | 71.0 | 0.37 |
| Building Constrcution (Building Expansion) | Concrete/Industrial Saws | Diesel | Tier 3 | 1.00 | 2.00 | 33.0 | 0.73 |
| Building Construction (Exterior Improvements) | Skid Steer Loaders | Diesel | Tier 3 | 1.00 | 6.00 | 71.0 | 0.37 |
| Building Construction (Exterior Improvements) | Aerial Lifts | Diesel | Tier 3 | 1.00 | 6.00 | 46.0 | 0.31 |
| Paving | Cement and Mortar Mixers | Diesel | Tier 3 | 4.00 | 6.00 | 10.0 | 0.56 |
| Paving | Pavers | Diesel | Tier 3 | 1.00 | 7.00 | 81.0 | 0.42 |
| Paving | Rollers | Diesel | Tier 3 | 1.00 | 7.00 | 36.0 | 0.38 |
| Paving | Tractors/Loaders/Backhoes | Diesel | Tier 3 | 1.00 | 7.00 | 84.0 | 0.37 |
| Architectural Coating | Air Compressors | Diesel | Tier 3 | 1.00 | 6.00 | 37.0 | 0.48 |

## 5.3. Construction Vehicles

### 5.3.1. Unmitigated

| Phase Name | Trip Type | One-Way Trips per Day | Miles per Trip | Vehicle Mix |
|---|---|---|---|---|
| Demolition | — | — | — | — |
| Demolition | Worker | 5.00 | 18.5 | LDA,LDT1,LDT2 |
| Demolition | Vendor | — | 10.2 | HHDT,MHDT |
| Demolition | Hauling | 0.27 | 20.0 | HHDT |
| Demolition | Onsite truck | — | — | HHDT |
| Grading | — | — | — | — |
| Grading | Worker | 5.00 | 18.5 | LDA,LDT1,LDT2 |
| Grading | Vendor | — | 10.2 | HHDT,MHDT |
| Grading | Hauling | 0.00 | 20.0 | HHDT |
| Grading | Onsite truck | — | — | HHDT |
| Building Construction (Interior Renovation) | — | — | — | — |
| Building Construction (Interior Renovation) | Worker | 7.26 | 18.5 | LDA,LDT1,LDT2 |
| Building Construction (Interior Renovation) | Vendor | 3.72 | 10.2 | HHDT,MHDT |
| Building Construction (Interior Renovation) | Hauling | 0.00 | 20.0 | HHDT |
| Building Construction (Interior Renovation) | Onsite truck | — | — | HHDT |
| Paving | — | — | — | — |
| Paving | Worker | 17.5 | 18.5 | LDA,LDT1,LDT2 |
| Paving | Vendor | — | 10.2 | HHDT,MHDT |
| Paving | Hauling | 0.00 | 20.0 | HHDT |
| Paving | Onsite truck | — | — | HHDT |
| Architectural Coating | — | — | — | — |
| Architectural Coating | Worker | 4.36 | 18.5 | LDA,LDT1,LDT2 |
| Architectural Coating | Vendor | — | 10.2 | HHDT,MHDT |
| Architectural Coating | Hauling | 0.00 | 20.0 | HHDT |

| | | | | |
|---|---|---|---|---|
| Architectural Coating | Onsite truck | — | — | HHDT |
| Building Constrcution (Building Expansion) | — | — | — | — |
| Building Constrcution (Building Expansion) | Worker | 7.26 | 18.5 | LDA,LDT1,LDT2 |
| Building Constrcution (Building Expansion) | Vendor | 3.72 | 10.2 | HHDT,MHDT |
| Building Constrcution (Building Expansion) | Hauling | 0.00 | 20.0 | HHDT |
| Building Constrcution (Building Expansion) | Onsite truck | — | — | HHDT |
| Building Construction (Exterior Improvements) | — | — | — | — |
| Building Construction (Exterior Improvements) | Worker | 7.26 | 18.5 | LDA,LDT1,LDT2 |
| Building Construction (Exterior Improvements) | Vendor | 3.72 | 10.2 | HHDT,MHDT |
| Building Construction (Exterior Improvements) | Hauling | 0.00 | 20.0 | HHDT |
| Building Construction (Exterior Improvements) | Onsite truck | — | — | HHDT |

### 5.3.2. Mitigated

| Phase Name | Trip Type | One-Way Trips per Day | Miles per Trip | Vehicle Mix |
|---|---|---|---|---|
| Demolition | — | — | — | — |
| Demolition | Worker | 5.00 | 18.5 | LDA,LDT1,LDT2 |
| Demolition | Vendor | — | 10.2 | HHDT,MHDT |
| Demolition | Hauling | 0.27 | 20.0 | HHDT |
| Demolition | Onsite truck | — | — | HHDT |
| Grading | — | — | — | — |
| Grading | Worker | 5.00 | 18.5 | LDA,LDT1,LDT2 |
| Grading | Vendor | — | 10.2 | HHDT,MHDT |

| | | | | |
|---|---|---|---|---|
| Grading | Hauling | 0.00 | 20.0 | HHDT |
| Grading | Onsite truck | — | — | HHDT |
| Building Construction (Interior Renovation) | — | — | — | — |
| Building Construction (Interior Renovation) | Worker | 7.26 | 18.5 | LDA,LDT1,LDT2 |
| Building Construction (Interior Renovation) | Vendor | 3.72 | 10.2 | HHDT,MHDT |
| Building Construction (Interior Renovation) | Hauling | 0.00 | 20.0 | HHDT |
| Building Construction (Interior Renovation) | Onsite truck | — | — | HHDT |
| Paving | — | — | — | — |
| Paving | Worker | 17.5 | 18.5 | LDA,LDT1,LDT2 |
| Paving | Vendor | — | 10.2 | HHDT,MHDT |
| Paving | Hauling | 0.00 | 20.0 | HHDT |
| Paving | Onsite truck | — | — | HHDT |
| Architectural Coating | — | — | — | — |
| Architectural Coating | Worker | 4.36 | 18.5 | LDA,LDT1,LDT2 |
| Architectural Coating | Vendor | — | 10.2 | HHDT,MHDT |
| Architectural Coating | Hauling | 0.00 | 20.0 | HHDT |
| Architectural Coating | Onsite truck | — | — | HHDT |
| Building Constrcution (Building Expansion) | — | — | — | — |
| Building Constrcution (Building Expansion) | Worker | 7.26 | 18.5 | LDA,LDT1,LDT2 |
| Building Constrcution (Building Expansion) | Vendor | 3.72 | 10.2 | HHDT,MHDT |
| Building Constrcution (Building Expansion) | Hauling | 0.00 | 20.0 | HHDT |
| Building Constrcution (Building Expansion) | Onsite truck | — | — | HHDT |

| | | | | |
|---|---|---|---|---|
| Building Construction (Exterior Improvements) | — | — | — | — |
| Building Construction (Exterior Improvements) | Worker | 7.26 | 18.5 | LDA,LDT1,LDT2 |
| Building Construction (Exterior Improvements) | Vendor | 3.72 | 10.2 | HHDT,MHDT |
| Building Construction (Exterior Improvements) | Hauling | 0.00 | 20.0 | HHDT |
| Building Construction (Exterior Improvements) | Onsite truck | — | — | HHDT |

## 5.4. Vehicles

### 5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

## 5.5. Architectural Coatings

| Phase Name | Residential Interior Area Coated (sq ft) | Residential Exterior Area Coated (sq ft) | Non-Residential Interior Area Coated (sq ft) | Non-Residential Exterior Area Coated (sq ft) | Parking Area Coated (sq ft) |
|---|---|---|---|---|---|
| Architectural Coating | 0.00 | 0.00 | 34,050 | 11,350 | 1,176 |

## 5.6. Dust Mitigation

### 5.6.1. Construction Earthmoving Activities

| Phase Name | Material Imported (Ton of Debris) | Material Exported (Ton of Debris) | Acres Graded (acres) | Material Demolished (Ton of Debris) | Acres Paved (acres) |
|---|---|---|---|---|---|
| Demolition | 0.00 | 0.00 | 0.00 | 15.0 | — |
| Grading | 0.00 | 0.00 | 0.00 | 0.00 | — |
| Paving | 0.00 | 0.00 | 0.00 | 0.00 | 0.45 |

### 5.6.2. Construction Earthmoving Control Strategies

| Control Strategies Applied | Frequency (per day) | PM10 Reduction | PM2.5 Reduction |
|---|---|---|---|
| Water Exposed Area | 2 | 61% | 61% |

## 5.7. Construction Paving

| Land Use | Area Paved (acres) | % Asphalt |
|---|---|---|
| Government (Civic Center) | 0.00 | 0% |
| Parking Lot | 0.45 | 100% |

## 5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

| Year | kWh per Year | CO2 | CH4 | N2O |
|---|---|---|---|---|
| 2025 | 0.00 | 349 | 0.03 | < 0.005 |
| 2026 | 0.00 | 346 | 0.03 | < 0.005 |

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

| Vegetation Land Use Type | Vegetation Soil Type | Initial Acres | Final Acres |
|---|---|---|---|

#### 5.18.1.2. Mitigated

| Vegetation Land Use Type | Vegetation Soil Type | Initial Acres | Final Acres |
|---|---|---|---|

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

| Biomass Cover Type | Initial Acres | Final Acres |
|---|---|---|

### 5.18.1.2. Mitigated

| Biomass Cover Type | Initial Acres | Final Acres |
|---|---|---|

### 5.18.2. Sequestration

### 5.18.2.1. Unmitigated

| Tree Type | Number | Electricity Saved (kWh/year) | Natural Gas Saved (btu/year) |
|---|---|---|---|

### 5.18.2.2. Mitigated

| Tree Type | Number | Electricity Saved (kWh/year) | Natural Gas Saved (btu/year) |
|---|---|---|---|

# 6. Climate Risk Detailed Report

## 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

| Climate Hazard | Result for Project Location | Unit |
|---|---|---|
| Temperature and Extreme Heat | 25.8 | annual days of extreme heat |
| Extreme Precipitation | 10.0 | annual days with precipitation above 20 mm |
| Sea Level Rise | — | meters of inundation depth |
| Wildfire | 28.2 | annual hectares burned |

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

| Climate Hazard | Exposure Score | Sensitivity Score | Adaptive Capacity Score | Vulnerability Score |
|---|---|---|---|---|
| Temperature and Extreme Heat | 3 | 0 | 0 | N/A |
| Extreme Precipitation | N/A | N/A | N/A | N/A |
| Sea Level Rise | 1 | 0 | 0 | N/A |
| Wildfire | 1 | 0 | 0 | N/A |
| Flooding | N/A | N/A | N/A | N/A |
| Drought | N/A | N/A | N/A | N/A |
| Snowpack Reduction | N/A | N/A | N/A | N/A |
| Air Quality Degradation | 0 | 0 | 0 | N/A |

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

| Climate Hazard | Exposure Score | Sensitivity Score | Adaptive Capacity Score | Vulnerability Score |
|---|---|---|---|---|
| Temperature and Extreme Heat | 3 | 1 | 1 | 3 |
| Extreme Precipitation | N/A | N/A | N/A | N/A |
| Sea Level Rise | 1 | 1 | 1 | 2 |
| Wildfire | 1 | 1 | 1 | 2 |
| Flooding | N/A | N/A | N/A | N/A |
| Drought | N/A | N/A | N/A | N/A |

| | | | | |
|---|---|---|---|---|
| Snowpack Reduction | N/A | N/A | N/A | N/A |
| Air Quality Degradation | 1 | 1 | 1 | 2 |

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

| Indicator | Result for Project Census Tract |
|---|---|
| Exposure Indicators | — |
| AQ-Ozone | 80.0 |
| AQ-PM | 59.0 |
| AQ-DPM | 39.7 |
| Drinking Water | 71.8 |
| Lead Risk Housing | 88.7 |
| Pesticides | 0.00 |
| Toxic Releases | 66.5 |
| Traffic | 14.7 |
| Effect Indicators | — |
| CleanUp Sites | 0.00 |
| Groundwater | 0.00 |
| Haz Waste Facilities/Generators | 16.6 |
| Impaired Water Bodies | 0.00 |
| Solid Waste | 35.7 |

| | |
|---|---|
| Sensitive Population | — |
| Asthma | 39.5 |
| Cardio-vascular | 21.5 |
| Low Birth Weights | 71.0 |
| Socioeconomic Factor Indicators | — |
| Education | 59.3 |
| Housing | 62.4 |
| Linguistic | 51.1 |
| Poverty | 37.4 |
| Unemployment | 26.9 |

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

| Indicator | Result for Project Census Tract |
|---|---|
| Economic | — |
| Above Poverty | 47.64532273 |
| Employed | 55.84498909 |
| Median HI | 59.373797 |
| Education | — |
| Bachelor's or higher | 64.85307327 |
| High school enrollment | 3.156679071 |
| Preschool enrollment | 69.60092391 |
| Transportation | — |
| Auto Access | 57.21801617 |
| Active commuting | 58.51405107 |
| Social | — |
| 2-parent households | 41.42178878 |
| Voting | 86.66752214 |

| | |
|---|---|
| Neighborhood | — |
| Alcohol availability | 34.72346978 |
| Park access | 52.88079045 |
| Retail density | 34.54382138 |
| Supermarket access | 84.46041319 |
| Tree canopy | 84.47324522 |
| Housing | — |
| Homeownership | 45.0019248 |
| Housing habitability | 29.05171308 |
| Low-inc homeowner severe housing cost burden | 11.98511485 |
| Low-inc renter severe housing cost burden | 36.0708328 |
| Uncrowded housing | 26.21583472 |
| Health Outcomes | — |
| Insured adults | 41.5629411 |
| Arthritis | 0.0 |
| Asthma ER Admissions | 59.7 |
| High Blood Pressure | 0.0 |
| Cancer (excluding skin) | 0.0 |
| Asthma | 0.0 |
| Coronary Heart Disease | 0.0 |
| Chronic Obstructive Pulmonary Disease | 0.0 |
| Diagnosed Diabetes | 0.0 |
| Life Expectancy at Birth | 70.1 |
| Cognitively Disabled | 66.4 |
| Physically  Disabled | 81.6 |
| Heart Attack ER Admissions | 80.3 |
| Mental Health Not Good | 0.0 |
| Chronic Kidney Disease | 0.0 |

| | |
|---|---|
| Obesity | 0.0 |
| Pedestrian Injuries | 70.2 |
| Physical Health Not Good | 0.0 |
| Stroke | 0.0 |
| Health Risk Behaviors | — |
| Binge Drinking | 0.0 |
| Current Smoker | 0.0 |
| No Leisure Time for Physical Activity | 0.0 |
| Climate Change Exposures | — |
| Wildfire Risk | 0.0 |
| SLR Inundation Area | 0.0 |
| Children | 61.0 |
| Elderly | 57.9 |
| English Speaking | 67.0 |
| Foreign-born | 53.0 |
| Outdoor Workers | 37.8 |
| Climate Change Adaptive Capacity | — |
| Impervious Surface Cover | 78.4 |
| Traffic Density | 29.8 |
| Traffic Access | 23.0 |
| Other Indices | — |
| Hardship | 62.8 |
| Other Decision Support | — |
| 2016 Voting | 39.9 |

## 7.3. Overall Health & Equity Scores

| Metric | Result for Project Census Tract |
|---|---|
| CalEnviroScreen 4.0 Score for Project Location (a) | 43.0 |

| | |
|---|---|
| Healthy Places Index Score for Project Location (b) | 50.0 |
| Project Located in a Designated Disadvantaged Community (Senate Bill 535) | No |
| Project Located in a Low-Income Community (Assembly Bill 1550) | No |
| Project Located in a Community Air Protection Program Community (Assembly Bill 617) | No |

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

## 7.4. Health & Equity Measures

No Health & Equity Measures selected.

## 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

## 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

# 8. User Changes to Default Data

| Screen | Justification |
|---|---|
| Construction: Construction Phases | Project existing building is 22,000 SF. Project would renovate existing building and add an additional 700 SF. Site is approximately 1.72 acres with 0.28 acres being disturbed for improvements. |
| Construction: Off-Road Equipment | Construction Equipment Expected during renovations and construction of the 700 SF add-on |

**APPENDIX C – Historical Resource Impact Asssessment Report**

# HISTORICAL RESOURCE IMPACT ASSESSMENT REPORT IN SUPPORT OF THE ALTADENA MAIN LIBRARY RENOVATION PROJECT, ALTADENA, CALIFORNIA

**KLEINFELDER PROJECT # 24002361.001A**

**February 2024**

**Revised August 2024**

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A Report Prepared for:

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**HISTORICAL RESOURCE IMPACT ASSESSMENT REPORT IN SUPPORT OF THE ALTADENA MAIN LIBRARY RENOVATION PROJECT, ALTADENA, CALIFORNIA**

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## MANAGEMENT SUMMARY

The Altadena Library District proposes to renovate the existing Altadena Main Library. The Altadena Main Library was built in 1967 by well-known Southern California architect Boyd Georgi and landscape architects Eriksson, Peters & Thoms were contracted to design its landscape. The Altadena Main Library has been recommended eligible for listing on the National Register of Historic Places, the California Register of Historical Resources, and as a Los Angeles County Landmark under Criteria A/1/A.1 and C/3/A.3 for its association with the increase in civic services resulting from Altadena's postwar population boom as well as for being an excellent example of Mid-Century Modern architecture designed by noted architect Boyd Georgi. It has also been recommended as eligible for listing as a Los Angeles County Landmark under Criterion A.7 for its integral landscape, designed by Eriksson, Peters & Thoms. Therefore, the Altadena Main Library is considered a historical resource for the purposes of the California Environmental Quality Act (CEQA).

The purpose of this investigation is to assess what potential impacts the proposed Altadena Main Library Renovation Project (Project) may have to the character-defining features of the Altadena Main Library and identify if the Project will result in substantial adverse changes to the historical resource under CEQA.

Kleinfelder's principal architectural historian reviewed available Project plans (Appendix A) and completed a site visit in January 2024 to assess the potential impacts of the Project on the Altadena Library District. Based on a review of the available Project plans and the scope of the proposed Project, the Project will result in significant modification or destruction of the character-defining features of the Altadena Main Library. The Project will result in a substantial adverse change that would impair the historical significance of the resource.


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# 1 INTRODUCTION

## 1.1 PROJECT DESCRIPTION

In 2020, ballot Measure Z was passed, establishing the Altadena Library District Community Facilities District and authorizing a property tax levy to generate stable local funding for the repair and upgrade of the Altadena Libraries. The Altadena Main Library was built in 1967 by well-known Southern California architect Boyd Georgi and landscape architects Eriksson, Peters & Thoms were contracted to design its landscape. Since its completion, minimal changes to the building, landscaping, and the site's physical characteristics have occurred. Retaining the architechtural integrity of the existing building is a key focus to the proposed Altadena Main Library Renovation Project (Project). Due to the age of the structure and the changing needs of the community, the library is in need of renovation, seismic resistance, improved access, and expansion. Some phasing may occur due to funding availability, however this document addresses the Project as a whole. The purpose of the renovation is to maximize use of the library space, improve user experience, improve seismic resilence, replace aging infrastructure, and activate outdoor space to increase visibility and engagement. Project Plans are included in Appendix A.

The planned improvements at the Altadena Main Library include an expansion of the building footprint by approximately 700 square feet, interior space reconfigurations, access improvements, seismic retrofit, and replacement of aged building infrastructure to address mechanical (elevator and HVAC), plumbing (including additional and accessible restrooms), and electrical and structural elements of the facility. Infrastructure improvements are expected to include some modernized Audio Visual (AV) spaces with newer technology and updated communications infrastructure and structured cabling. Upgrades to plantings and irrigation and adding outdoor functional spaces are also planned. Project features shown on the available plans (Appendix A) will include the following:

- New Entry/Lobby
- New Community Room Deck
- New Amphitheater (optional)
- New Delivery Area
- New Entry Wall and Signage
- New Stairs
- Parking lot Re-surfaced and Striped
- Refurbish Existing Bridges

### 1.1.1 Demolition

Some demolition and grading are required to complete the Altadena Main Library renovation and expansion. The site is approximately 1.72 acres with 0.28 acre being disturbed for improvements.


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Demolition includes removal of concrete, pavement, and removal of existing turf, planters, and shrubs. Grading is designed to slope walking paths, landscapes, and other surfaces away from buildings towards onsite drainage features. Areas of pavement and concrete removal include the driveway for new delivery area, new entry/lobby along much of the south side of the building, and walkways to bridge on north side of facility. Clearing and grubbing will occur at the delivery area, amphitheater, new entry/lobby, near the path to the bridge on the north side, and the new Community Room Deck. In the interior there will be some demolition to nonstructural walls, doors, and stairways.

### 1.1.2 Seismic Retrofit

Current known deficiencies include inadequate wall anchorage detailing at masonry bearing walls and inadequate horizontal reinforcing in existing masonry wall. The retrofit plan resolves these inadequacies by the addition of a new full-height shear wall at the south elevation. Larger columns are planned to replace the existing smaller ones to address performance issues with the glass panels between the low and high roofs. Shotcrete is planned at existing masonry walls to increase the shear strength.

### 1.1.3 Interior Renovations

The interior changes are focused on accommodating current trends in library use. Traditional spaces such as reading areas, collections, and staff areas are being added/reconfigured. A new space for fabrication lab/makers space would be placed in the area that currently accommodates the community room which is being relocated and added to the southwest corner of the building and various types of meeting rooms where persons and organizations can reserve rooms to host in person and virtual meetings. Additional support space, such as storage, staff, and infrastructure space, is in included in the proposed interior layout. To accommodate access, a new lobby/exhibit space allows for direct Americans with Disabilities Act (ADA) access from the parking lot. An elevator that serves all levels of the building is planned. Reading collections separately located for children, tweens, young adults, and adults have been incorporated into the design.

### 1.1.4 Exterior Renovations

A new two-story entry/lobby will be constructed along much of the eastern portion of the north side of the building, which will also result in changes to the fenestration and doors on the remaining western portion of the first floor of the elevation. New fenestration will be added to the south, east, and north elevations of the existing community room. A new door will be constructed on the western portion of the north elevation, and fenestration will change on the eastern portion of the north elevation.

The landscape scope includes new hardscape areas along with planting and irrigation improvements. The east side of the site along Santa Rosa Avenue will receive minor changes to the existing planting and


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irrigation. The primary planting palette would consist of native and adapted plantings that require low amounts of irrigation and maintenance. The existing community garden on the south side will be protected in place. The remaining area surrounding the building improvements on the north, south, and west sides will receive new planting and irrigations systems. Existing trees will be protected though approximately 12 of 51 trees will be removed. Six of the 12 trees planned for removal are in poor condition.

The new pedestrian entry sequence on Mariposa Street will start with a new low signage wall and a new direct connection to the existing bridge. The North Patio (amphitheater) will accommodate events and daily functions and includes a sunken reading court, terraced seating, and a stage. At the southeast building corner, the Community Room Deck extends a raised deck from the building. The new southern edge of the building will provide parking for approximately 12 bicycles to the east with a planted walkway moving west to the new main building entrance.

## 1.2 PROJECT AREA

The Altadena Main Library is located at 600 E. Mariposa Street, Altadena, CA 91001, at the southwest corner of Santa Rosa Avenue and Mariposa Street. The community of Altadena is in unincorporated Los Angeles County at the foot of the San Gabriel Mountains. The Altadena Main Library is situated in a residential area surrounded by residences to the south and east across Santa Rosa Avenue, Altadena Senior's Center to the West, and "Camp Mariposa" (owned by the Girl Scouts of Greater Los Angeles Chapter) to the North across E. Mariposa Street. The existing Altadena Main Library is approximately 22,000 square feet, and is built into its sloped site, appearing as a two-story building on the south end and a one-story building on the north end.

## 1.3 REPORT OBJECTIVES

The purpose of this investigation is to assess what potential impacts the proposed Project may have to the character-defining features of the Altadena Main Library and identify if the Project will result in substantial adverse changes to the historical resource under the California Environmental Quality Act (CEQA).


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# 2 REGULATORY CONTEXT

In the state of California, historic-period built environment resources may be subject to several levels of governmental review, including those at the State level. State laws provide frameworks for the identification of historic-period built environment resources and their evaluation for historical significance. On a state level, these frameworks are included within the CEQA, which establishes the California Register of Historical Resources (CRHR). CEQA requires state and local agencies to identify and reduce, if feasible, the significant, negative environmental impacts of land use decisions. CEQA Guidelines Section 15064.5 provides specific guidance for determining the significance of impacts on historical resources.

## 2.1 CALIFORNIA ENVIRONMENTAL QUALITY ACT OF 1970, AS AMENDED

The California Environmental Quality Act (CEQA) requires State and local agencies to identify and reduce, if feasible, the significant, negative environmental impacts of land use decisions.

### 2.1.1 CEQA Guidelines: Title 14 California Code of Regulations (CCR) Section 15064.4 subsection (b)

This section of CEQA defines "historical resource," addresses reburial options for Native American remains, and presents the preferred mitigation of historical resources. Cultural resources are buildings, sites, landscapes, traditional cultural properties, structures, or objects that may have historical, architectural, cultural, or scientific importance. A "Historical Resource" includes, but is not limited to, any object, building, structure, site, area, place, record, or manuscript that is historically or archaeologically significant, or is significant in the architectural, engineering, scientific, economic, agricultural, educational, social, political, military, or cultural annals of California.

### 2.1.2 CEQA Guidelines: Title 14 CCR Section 15064.5

This section of CEQA identifies which resources are considered cultural resources, as stated below.

- Resource(s) listed or eligible for listing on the CRHR (Title 14 CCR Section 15064.5(a)(1)); and
- Resource(s) either listed in the National Register of Historic Places (NRHP) or in a "local register of historical resources" unless "the preponderance of evidence demonstrates that it is not historically or culturally significant," (Title 14 CCR Section 15064.5(a)(2)); and
- Resources identified as significant in a historical resource survey meeting the requirements in section 5024.1(g) of the Public Resources Code (PRC) [Title 14 CCR Section 15065.5(a)(2)].

In addition, Subdivision (g) provides the guidelines referenced below regarding historical surveys.


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A resource identified as significant in a historical survey may be listed in the CRHR if the survey meets all the following criteria:

- The survey has been or will be included in the State Historic Resources Inventory.
- The survey and the survey documents were prepared in accordance with procedures and requirements of the California Office of Historic Preservation (OHP).
- The resource is evaluated and determined by OHP to have a significance rating of Category 1 to 5 on the Department of Parks and Recreation (DPR) Historic Resources Inventory Form.
- If the survey is 5 years or older at the time of its nomination for inclusion in the CRHR, the survey is updated to identify historic resources that have become eligible or ineligible due to changed circumstances or further documentation and those which have been demolished or altered in a manner that substantially diminished the significance of the resource.
- Resources identified during such surveys are presumed to be historically or culturally significant unless the preponderance of evidence demonstrates otherwise.
- A final category of "historical resources" may be determined at the discretion of the lead agency when: any object, building, structure, site, area, place, record, or manuscript which a lead agency determines to be historically significant or significant in the architectural, engineering, scientific, economic, agricultural, education, social, political, military, or cultural annals of California may be considered to be a historical resource, provided the lead agency's determination is supported by substantial evidence in light of the whole record [Title 14 CCR Section 15064.5(a)(3)].

### 2.1.3 CEQA Guidelines: Title 14 CCR Section 15064.5(b)

Section 15124(b) addresses mitigation, and states that the preferred mitigation for historical resources is treatment in a manner consistent with the Secretary of the Interior's Standards for the Treatment of Historic Properties with Guidelines for Preserving, Rehabilitating, Restoring, and Reconstructing Historic Buildings. The preferred mitigation for archaeological sites is preservation in place.

### 2.1.4 CEQA Guidelines: Title 14 CCR Section 15064.7 "Thresholds of Significance"

This section encourages agencies to develop thresholds of significance to be used in determining potential impacts and defines the term "cumulatively significant."

### 2.1.5 CEQA Guidelines: Title 14 CCR Section 15064.5 "Consideration and Discussion of Mitigation Measures Proposed to Minimize Significant Effects", sub-section (b) "Mitigation Measures Related to Impacts on Historical Resources"

Title 14 CCR Section 15064.5(b) addresses mitigation and states that the preferred mitigation for historical resources is treatment in a manner consistent with Secretary of the Interior's Standards for the Treatment


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of Historic Properties with Guidelines for Preserving, Rehabilitating, Restoring, and Reconstructing Historic Buildings.

- Per Title 14 CCR Section 15064.5(b), the preferred mitigation for archaeological sites is Mitigation through avoidance of damaging effects on any historical resource of an archaeological nature, preferably by preservation in place, or by data recovery through excavation if avoidance or preservation in place is not feasible; data recovery must be conducted in accordance with an adopted data recovery plan.

Subsection (b) discusses:

- Impacts of maintenance, repair, stabilization, restoration, conservation, or reconstruction of a historical resource; and
- Documentation as a mitigation measure; and
- Mitigation through avoidance of damaging effects on any historical resource of an archaeological nature, preferably by preservation in place, or by data recovery through excavation if avoidance or preservation in place is not feasible; data recovery must be conducted in accordance with an adopted data recovery plan.

### 2.1.6 CEQA Appendix G Section V (Impacts under CEQA)

This appendix is a checklist that identifies potential impacts to historical and archaeological resources, and/or human remains. The checklist includes the following questions, which are used to determine if a potential project would:

- Cause a substantial adverse change in the significance of a historical resource as defined in Section 15064.5; and
- Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5; and
- Disturb any human remains, including those interred outsides of formal cemeteries.

Questions on the checklist are answered to assess whether impacts associated with a project would be potentially significant, less than significant with mitigation, less than significant, or have no impact. The final determination of project-related impacts is made by the lead agency on a project.

CEQA states that if a project will have a significant adverse change on important cultural resources, deemed “historically significant,” then project alternatives and mitigation measures must be considered (PRC 21084.1). A “Substantial adverse change” means demolition, destruction, relocation, or alteration such that the significance of a historical resource would be impaired. Impacts of maintenance, repair, stabilization, restoration, conservation, or reconstruction of a historical resource are discussed in Title 14 CCR Section 15126.4 Subsection (b). Historical resources not listed on the CRHR or other local lists may


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still be considered historical resources at the discretion of the lead agency on the project. Additionally, any proposed project that may affect historically significant cultural resources must be submitted to the State Historic Preservation Officer (SHPO) for review and comment prior to project approval by the responsible agency and prior to construction.

### 2.1.7 CEQA Historical Resources

CEQA defines historically significant resources as "resources listed or eligible for listing in the California Register of Historical Resources (CRHR)" (PRC Section 5024.1). A cultural resource may be considered historically significant if the resource is 45 years old or older; possesses integrity of location, design, setting, materials, workmanship, feeling, and association; and meets any of the following criteria for listing on the CRHR:

1. Is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage;
2. Is associated with the lives of persons important in our past;
3. Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values; or
4. Has yielded, or may be likely to yield, information important in prehistory or history (PRC Section 5024.1).

Cultural resources are buildings, sites, landscapes, traditional cultural properties, structures, or objects that may have historical, architectural, cultural, or scientific importance. CEQA states that if a project will have a significant impact on important cultural resources, deemed "historically significant," then project alternatives and mitigation measures must be considered. Additionally, any proposed project that may affect historically significant cultural resources must be submitted to the SHPO for review and comment prior to project approval by the responsible agency and prior to construction.

## 2.2 PUBLIC RESOURCES CODES

The following provides a summary of California Public Resources Codes that apply to cultural resources.

### 2.2.1 PRC Section 5020.1

This section defines several terms, including those provided below.

> "Historical resource" includes, but is not limited to, any object, building, structure, site, area, place, record, or manuscript that is historically or archaeologically significant, or is significant in the architectural, engineering, scientific, economic, agricultural, educational, social, political, military, or cultural annals of California.


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"Substantial adverse change" means demolition, destruction, relocation, or alteration such that the significance of a historical resource would be impaired.

### 2.2.2 PRC Section 5024.1

This section establishes the CRHR. A resource may be listed as a historical resource in the CRHR if it meets the NRHP criteria or the following state criteria:

- Is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage; and/or
- Is associated with the lives of persons important in our past; and/or
- Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values; and/or
- Has yielded, or may be likely to yield, information important in prehistory or history.

### 2.2.3 PRC Section 21084.1

This section sets forth that a project that may cause a significant adverse change in a significant historical resource is a project that may be considered to have adverse effects on the environment. Historical resources not listed on the CRHR, or other local lists, may still be considered historical resources at the discretion of the lead agency on the project.


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# 3 ALTADENA MAIN LIBRARY

## 3.1 2020 ALTADENA MAIN LIBRARY HISTORICAL RESOURCE ASSESSMENT

In 2020, the Altadena Library District commisioned Architectural Resources Group (ARG) to complete a historical resources assessment of the Altadena Main Library (ARG 2020). ARG assessed the Altadena Main Library for historical significance under the NRHP, CRHR, and Los Angeles County landmark (Local Register) criteria. Based on their analysis, ARG recommended that the Altadena Main Library is eligible for listing on the NRHP, the CRHR, and the Local Register under Criteria A/1/A.1 and C/3/A.3, respectively, for its association with the increase in civic services resulting from Altadena's postwar population boom as well as for being an excellent example of Mid-Century Modern architecture designed by noted architect Boyd Georgi. They also recommended that it is eligible for listing as a Los Angeles County Landmark under Criterion A.7 for its integral landscape, designed by Eriksson, Peters & Thoms. The library's period of significance was defined as 1967, corresponding with its date of construction (ARG 2020). The 2020 Report is included in Appendix B.

## 3.2 CHARACTER-DEFINING FEATURES OF THE ALTADENA MAIN LIBRARY

Character refers to all those visual aspects and physical features that comprise the appearance of every historic building, structure, or landscape. Character-defining elements can include the overall shape or layout, materials, craftsmanship, decorative details, interior spaces, and features, as well as the various aspects of the site and environment. Based on the assessment made by ARG of the Altadena Main Library, the following are considered the character-defining features of the historical resource.

### 3.2.1 Site and Landscape

- Undulating sloped topography.
- Lush, mature vegetation.
- Concrete planters and freestanding concrete block walls.
- Concrete walkways and steel-framed footbridges with globe lanterns and wood decking.

### 3.2.2 Building Exterior

- Irregularly shaped plan.
- Two-story height with three intersecting levels.
- Low-lying, horizontal massing, built into the natural terrain of the site.


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- Multi-level flat roofs with closed eaves and wide fascia, emphasizing the horizontality of the building's design.
- Exposed concrete block walls and smooth stucco cladding.
- Unassuming recessed entrances.
- Grouped fixed metal windows, both floor-to-ceiling and clerestory.
- Metal doors, both flush and fully glazed (some of the actual doors have been replaced).
- Double-height, glazed east (main) entrance that allows for natural light and provides an important reveal when transitioning from indoor to outdoor.
- Metal wall-mounted sculptures (two) by local artist David Green.

### 3.2.3 Building Interior

- Large open space comprising the main level with smaller enclosed spaces along the perimeter.
- Sunken reading court with concrete planters, wood-paneled screen, globe lanterns, tiled floor, trellis, and skylight.
- Concrete block walls.
- Wood paneled accent cladding in the community room and south entry vestibule.


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# 4 POTENTIAL EFFECTS ON CHARACTER-DEFINING FEATURES

Kleinfelder's principal architectural historian reviewed available Project plans and completed a site visit in January 2024 to assess the potential impacts of the Project on the Altadena Main Library.

According to CEQA, a project that has been determined to conform with the Secretary of the Interior's Standards for the Treatment of Historic Properties can generally be considered to be a project that will not cause a significant impact (14 CCR Section 15126.4(b)(1)). In the case of historic built environment resources, a significant impact is a substantial adverse change to the historic integrity of a resource. A substantial adverse change includes demolition, destruction, relocation, or alteration such that the significance of a historical resource would be impaired. The significance of an historical resource is materially impaired when a project:

> (A) Demolishes or materially alters in an adverse manner those physical characteristics of an historical resource that convey its historical significance and that justify its inclusion in, or eligibility for, inclusion in the CRHR; or
>
> (B) Demolishes or materially alters in an adverse manner those physical characteristics that account for its inclusion in a County Register of historical resources pursuant to section 5020.1(k) of the Public Resources Code or its identification in an historical resources survey meeting the requirements of section 5024.1(g) of the Public Resources Code, unless the public agency reviewing the effects of the project establishes by a preponderance of evidence that the resource is not historically or culturally significant; or
>
> (C) Demolishes or materially alters in an adverse manner those physical characteristics of a historical resource that convey its historical significance and that justify its eligibility for inclusion in the CRHR as determined by a lead agency for purposes of CEQA.

## 4.1 SECRETARY OF THE INTERIOR STANDARDS FOR REHABILITATION

Per CEQA (15064.5 (b)(3)), impacts on historical resources from a project that follows the Secretary of the Interior's Standards for the Treatment of Historic Properties with Guidelines for Preserving, Rehabilitating, Restoring, and Reconstructing Historic Buildings or the Secretary of the Interior's Standards for Rehabilitation and Guidelines for Rehabilitating Historic Buildings, as appropriate, shall be considered less than significant impact. The complete demolition of a historical resource cannot, however, be mitigated to a less than significant impact.

Kleinfelder recommended that the Secretary of the Interior Standards for Rehabilitation (SOI Standards) are the most appropriate of the Secretary of the Interior's Standards for the Treatment of Historic


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Properties for this Project due to the nature of the Project and the condition of the existing building. Rehabilitation is defined as the act or process of making possible a compatible use for a property through repair, alterations, and additions while preserving those portions or features which convey its historical, cultural, or architectural values. The SOI Standards acknowledge the need to alter or add to a historic building to meet continuing or new uses while retaining the building's historic character. The SOI Standards state:

1. A property will be used as it was historically or be given a new use that requires minimal change to its distinctive materials, features, spaces, and spatial relationships.
2. The historic character of a property will be retained and preserved. The removal of distinctive materials or alteration of features, spaces, and spatial relationships that characterize a property will be avoided.
3. Each property will be recognized as a physical record of its time, place, and use. Changes that create a false sense of historical development, such as adding conjectural features or elements from other historic properties, will not be undertaken.
4. Changes to a property that have acquired historic significance in their own right will be retained and preserved.
5. Distinctive materials, features, finishes, and construction techniques or examples of craftsmanship that characterize a property will be preserved.
6. Deteriorated historic features will be repaired rather than replaced. Where the severity of deterioration requires replacement of a distinctive feature, the new feature will match the old in design, color, texture, and, where possible, materials. Replacement of missing features will be substantiated by documentary and physical evidence.
7. Chemical or physical treatments, if appropriate, will be undertaken using the gentlest means possible. Treatments that cause damage to historic materials will not be used.
8. Archeological resources will be protected and preserved in place. If such resources must be disturbed, mitigation measures will be undertaken.
9. New additions, exterior alterations, or related new construction will not destroy historic materials, features, and spatial relationships that characterize the property. The new work shall be differentiated from the old and will be compatible with the historic materials, features, size, scale and proportion, and massing to protect the integrity of the property and its environment.
10. New additions and adjacent or related new construction will be undertaken in a such a manner that, if removed in the future, the essential form and integrity of the historic property and its environment would be unimpaired.


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## 4.2 POTENTIAL EFFECTS ON CHARACTER-DEFINING FEATURES

### 4.2.1 Site and Landscape

Demolition includes removal of concrete, pavement, and removal of existing turf, planters, and shrubs. Grading is designed to slope walking paths, landscapes, and other surfaces away from buildings towards onsite drainage features. Areas of pavement and concrete removal include the driveway for new delivery area, new entry/lobby along much of the south side of the Main Library, and walkways to bridge on north side of facility. Clearing and grubbing will occur at the delivery area, amphitheater, new entry/lobby, near the path to the bridge on the north side, and the new Community Room Deck.

The landscape scope includes new hardscape areas along with planning and irrigation improvements. The east side of the site along Santa Rosa Avenue will receive minor changes to the existing planting and irrigation. The primary planting palette would consist of native and adapted plantings that require low amounts of irrigation and maintenance. The existing community garden on the south side will be protected in place. The remaining area surrounding the building improvements on the north, south, and west sides will receive new planting and irrigations systems. Existing trees will be protected though approximately 12 of 51 trees to be removed. Six of the 12 trees planned for removal are in poor condition. The new pedestrian entry sequence on Mariposa Street will start with a new low signage wall and a new direct connection to the existing bridge. At the southeast building corner, the Community Room Deck extends a raised deck from the building. The new southern edge of the building will provide parking for approximately 12 bicycles to the east with a planted walkways moving west to the new main building entrance. An optional plan for the construction of amphitheater that will accommodate events and daily functions and includes a sunken reading court, terraced seating, and a stage has not been approved in the current design.

#### 4.2.1.1 Character-defining Features

- Undulating sloped topography.
- Lush, mature vegetation.
- Concrete planters and freestanding concrete block walls.
- Concrete walkways and steel-framed footbridges with globe lanterns and wood decking.

#### 4.2.1.2 Impact on Character-defining Features

- The removal of 12 trees, six of which are in poor condition, will not modify the overall appearance of the landscape in such a way that will compromise the historic integrity of the landscaping plan.


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- Kleinfelder understands that built environment landscaping elements such as the footbridges and globe lanterns will be repaired if possible, using in-kind materials. In the event that elements cannot be repaired, Kleinfelder understands that materials will be replaced in-kind in conformance with the SOI Standards.
- Additions to the building, new walkways, and the potential construction of the amphitheater alter the landscape and the site plan but are compatible with the intent and the design for the space while not creating a false sense of history.

#### 4.2.2 Building Exterior

A new two-story entry/lobby will be constructed along much of the eastern portion of the south side of the building, which will also result in changes to the fenestration and doors on the remaining western portion of the first floor of the elevation. New fenestration will be added to the south, east, and north elevations of the existing community room. A new door and parking area will be constructed on the western portion of the north elevation, and fenestration will change on the eastern portion of the north elevation.

##### 4.2.2.1 Character-defining Features

- Irregularly shaped plan.
- Two-story height with three intersecting levels.
- Low-lying, horizontal massing, built into the natural terrain of the site.
- Multi-level flat roofs with closed eaves and wide fascia, emphasizing the horizontality of the building's design.
- Exposed concrete block walls and smooth stucco cladding.
- Unassuming recessed entrances.
- Grouped fixed metal windows, both floor-to-ceiling and clerestory.
- Metal doors, both flush and fully glazed (some of the actual doors have been replaced).
- Double-height, glazed east (main) entrance that allows for natural light and provides an important reveal when transitioning from indoor to outdoor.
- Metal wall-mounted sculptures (two) by local artist David Green.


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#### 4.2.2.2 Impact on Character-defining Features

- The addition of the new entrance and atrium on the south façade of the library will alter character-defining features such as the emphasis of horizontal planes, characteristic of Mid-Century Modern architecture. Partially removing the existing fascia creates a visual break in horizontality.
- A portion of the existing concrete masonry unit (CMU) wall on the south façade will be demolished, breaking the visual horizontality, a character-defining feature.
- A portion of the glass windows on the southern façade will be replaced with CMU block (per schematic design) breaking the interior/exterior character-defining feature associated with Mid-Century Modern architecture.
- The main entrance will be altered and replaced with a new set of modern glass doors and an atrium, making it the central focus of the south façade and thus removing the character-defining feature of unassuming recessed entrances.
- The new entrance will consist of double-height glass; however, it might be partially obscured by the existing CMU wall, thus partially obstructing the indoor/outdoor transition.

### 4.2.3 Building Interior

The interior changes are focused on accommodating current trends in library use. Traditional spaces such as reading areas, collections, and staff areas are being added/reconfigured. Much of the western portion of the interior space on the library's main floor will be enclosed with new walls and entrance doors. The eastern portion of the library's main floor will have the existing wood paneled walls and frosted glass that currently constitute staff offices removed and replaced. To accommodate access, a new lobby/exhibit space allows for direct ADA access from the parking lot. An elevator that serves all levels of the building is planned. Reading collections separately located for children, tweens, young adults, and adults have been incorporated into the design. Current known deficiencies include inadequate wall anchorage detailing at masonry bearing walls and inadequate horizontal reinforcing in existing masonry wall. The retrofit plan resolves these inadequacies by the addition of a new full height shear wall at the south elevation. Larger columns are planned to replace the existing smaller ones to address performance issues with the glass panels between the low and high roofs. Shotcrete is planned at existing masonry walls to increase the shear strength. Windows will be replaced.

#### 4.2.3.1 Character-defining Features

- Large open space comprising the main level with smaller enclosed spaces along the perimeter.
- Sunken reading court with concrete planters, wood-paneled screen, globe lanterns, tiled floor, trellis, and skylight.


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- Concrete block walls.
- Wood paneled accent cladding in the community room and south entry vestibule.

#### 4.2.3.2 Impact on Character-defining Features

- Open spaces will be broken with bigger enclosed spaces, notably on the western portion of the interior space, breaking the open plan space.
- Character-defining features of the sunken living room, such as the tiled floor will be retained, except where an ADA-compliant ramp will be installed.
- All wood paneling and millwork will be removed, and decorative wooden tiles will be incorporated into the new design.

## 4.3 SECRETARY OF THE INTERIOR STANDARDS FOR REHABILITATION ASSESSMENT

Based on the review of the available Project plans and the assessment of impacts to the character-defining features above, Kleinfelder has prepared the following assessment for the Project's overall compliance with the SOI Standards (Table 4.1).

Table 4.1: SOI Standards Assessment

| SOI Standards | Assessment |
|---|---|
| A property will be used as it was historically or be given a new use that requires minimal change to its distinctive materials, features, spaces, and spatial relationships. | The Altadena Main Library will continue to be used as a public library. Therefore, the Project generally conforms to this standard. |
| The historic character of a property will be retained and preserved. The removal of distinctive materials or alteration of features, spaces, and spatial relationships that characterize a property will be avoided. | Based on the Project plans, some historic character features will be altered, some distinctive character-defining materials will be removed, and some spatial relationships between spaces will be altered. These alterations will result in a significant change in the spatial relationship and to the integrity of materials, design, workmanship, and feeling, particularly for the interior of the building. Therefore, the Project does not generally conform to this standard. |
| Each property will be recognized as a physical record of its time, place, and use. Changes that create a false sense of historical development, such as adding conjectural features or elements from other historic properties, will not be undertaken. | Based on the Project plans that have been provided, the alterations to the property will be distinct from the historical design, while also complimentary to the intent of the original design. These changes will be differentiated from the historical material and will not create a false sense of history. Therefore, the Project generally conforms to this standard. |


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| SOI Standards | Assessment |
|---|---|
| Changes to a property that have acquired historic significance in their own right will be retained and preserved. | No changes to the property that have acquired historic significance in their own right have been identified. Therefore, the Project generally conforms to this standard. |
| Distinctive materials, features, finishes, and construction techniques or examples of craftsmanship that characterize a property will be preserved. | Although some materials and finishes will be retained, other of the character-defining features such as wood paneling and millwork will be removed. These alterations will result in an overall loss of integrity of materials, design, workmanship, and feeling. Therefore, the Project does not generally conform to this standard. |
| Deteriorated historic features will be repaired rather than replaced. Where the severity of deterioration requires replacement of a distinctive feature, the new feature will match the old in design, color, texture, and, where possible, materials. Replacement of missing features will be substantiated by documentary and physical evidence. | Based on the Project plans, historic features such as the trellis/chandelier, will be refurbished rather than replaced. In addition, the wooden bridges on the exterior of the building will be repaired and/or replaced with in-kind materials. While these specific improvements generally conform to this standard, the building will undergo such significant alterations that other historic features (such as wood paneling) will be removed. These alterations will result in an overall loss of integrity of materials, design, workmanship, and feeling. Therefore, the Project does not generally conform to this standard. |
| Chemical or physical treatments, if appropriate, will be undertaken using the gentlest means possible. Treatments that cause damage to historic materials will not be used. | Based on the Project plans that have been provided, it does not appear that use of chemical or physical treatments will cause damage to historic materials that will not be modified by removal and new construction. Therefore, the Project generally conforms to this standard. |
| Archeological resources will be protected and preserved in place. If such resources must be disturbed, mitigation measures will be undertaken. | This study does not address archaeological resources. |
| New additions, exterior alterations, or related new construction will not destroy historic materials, features, and spatial relationships that characterize the property. The new work shall be differentiated from the old and will be compatible with the historic materials, features, size, scale and proportion, and massing to protect the integrity of the property and its environment. | The proposed additions will alter some character-defining features and will remove/destroy historic materials. These alterations will result in an overall loss of integrity of materials, design, workmanship, and feeling. Therefore, the Project does not generally conform to this standard. |
| New additions and adjacent or related new construction will be undertaken in a such a manner that, if removed in the future, the essential form and integrity of the historic | The majority of the modifications to the building under this Project will permanently modify the building in such a way that, if removed in the future, the essential form and integrity of the |


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| SOI Standards | Assessment |
|---|---|
| property and its environment would be unimpaired. | historic property would not be retained. Therefore, the Project does not generally conform to this standard. |

Based on this assessment, the Project will not generally conform to the SOI Standards and will result in an overall loss of integrity of materials, design, workmanship, and feeling. Therefore, the Project will result in a substantial adverse change to a historical resource under CEQA.


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# 5 CONCLUSION AND RECOMMENDATIONS

Based on a review of available Project plans and the scope of the proposed Project, the Project will result in the significant modification to character-defining features of the Altadena Main Library. Therefore, based on the current Project description, the Project will result in a substantial adverse change that would impair the historic significance of the Altadena Main Library.

Because the Project will result in the loss of historic materials, the Project cannot be mitigated to a less than significant level under CEQA. However, CEQA requires that all feasible mitigation be undertaken even if it does not mitigate below a level of significance. In this context, recordation serves a legitimate archival purpose. The level of documentation required as a mitigation should be proportionate with the level of significance of the resource. Kleinfelder reccomends the following mitigation measures to lessen the impact the Project will have to the histoirical resource:

- **MM-1: Historic American Buildings Survey-like Documentation:** Prior to the commencement of demolition, the building should be recorded through a documentation report based on Historic American Buildings Survey (HABS)-standards. The report will be completed by an architectural historian or historic architect who meets the Secretary of the Interior's Professional Qualification Standards and will be based on the National Park Service (NPS) HABS Level III format and content requirements. An archival copy of the HABS report will be filed with the Altadena Library and non-archival copies may be deposited in the collections of the Long Beach Public Library and Long Beach Heritage Museum, if requested, and in the California Historical Resources Information System (CHRIS) South Central Coastal Information Center (SCCIC).

- **MM-2: Salvage and Use of Salvaged Materials**: Prior to the commencement of demolition, the Altadena Library District should coordinate with an architectural historian or historic architect who meets the Secretary of the Interior's Professional Qualification Standards, the Project architect, and the demolition contractor to develop a list of materials that would be salvaged during demolition and a salvage plan which may include architectural history monitoring during demolition.

Should the Project design change, further review may be necessary to assess further potential to cause a significant impact to the Altadena Main Library.


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# 6 REFERENCES CITED

Architectural Resources Group (ARG)

2020 *Altadena Main Library Historical Resource Assessment Report.* Prepared by ARG for the Altadena Library District.


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# 7 PREPARER'S QUALIFICATIONS

This report was prepared by Kleinfelder Principal Architectural Historian Justin Castells, M.A. and Kleinfelder Architectural Historian Magaly Colón-Morales, M.S.

Mr. Castells is Kleinfelder's Cultural Resources Program Manager for Southern California and Principal Architectural Historian. He exceeds the Secretary of the Interior's Professional Qualification Standards in architectural history and history. Mr. Castells has a M.A. in history and over 16 years of professional experience in cultural resources management and historic preservation. He has completed countless cultural resources studies in compliance with local, state, and federal regulations including the National Environmental Policy Act (NEPA), CEQA, and Sections 106 and 110 of the NHPA. He has prepared technical reports including Environmental Impact Studies/Environmental Impact Reports, DPR 523 series forms, Historic American Buildings Survey (HABS)/Historic American Engineering Record (HAER) documentation, historic preservation plans, and cultural landscape reports. He has completed work for various federal, state, and local agencies, including the Federal Emergency Management Agency (FEMA), California High Speed Rail Authority, California Department of Transportation (Caltrans), as well as numerous private clients.

Ms. Colón-Morales is an Architectural Historian who exceeds the Secretary of the Interior's Professional Qualification Standards in architectural history and history. Ms. Colón-Morales has a M.S. in historic preservation and over three years of professional experience in historic preservation, object conservation, and historic research and assessment. She has conducted research, surveys, and completed evaluations for historical significance throughout the United States and has prepared technical reports in compliance with NEPA, Section 106 of the NHPA, CEQA, and local requirements.


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# APPENDIX A

# PROJECT PLANS

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# APPENDIX B

## 2020 ALTADENA MAIN LIBRARY HISTORICAL ASSESSMENT REPORT

# APPENDIX C

## SURVEY PHOTOGRAPHS



South elevation, facing northwest. New two-story atrium/entrance and deck will be located on this elevation.



South elevation, facing northeast. Doors and fenestration on first floor will be altered.



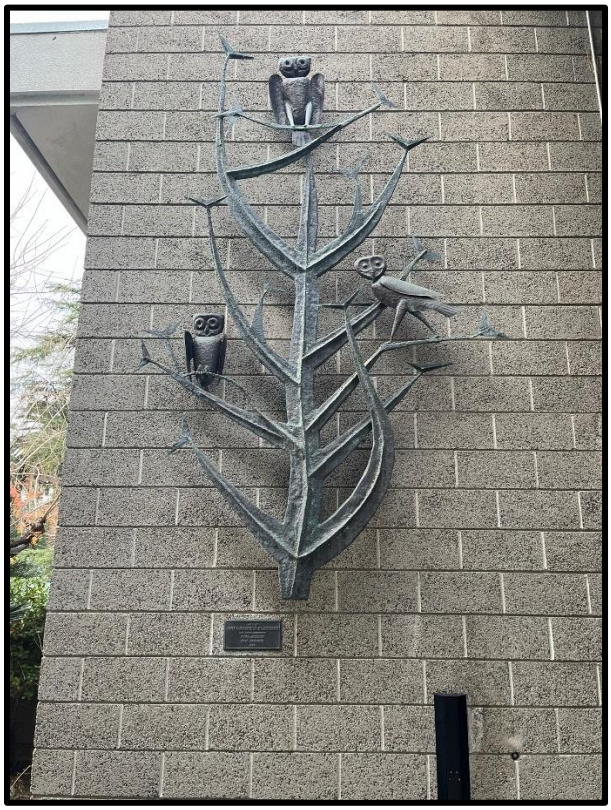
South elevation of community room, facing north. New deck will be located on this elevation, with a shade canopy and sliding doors. New fenestration will be added to east and north elevations of the community room.



South and east elevations, facing northwest. New two-story atrium/entrance and deck will be located on this elevation.



South elevation entry doors. These will be removed.



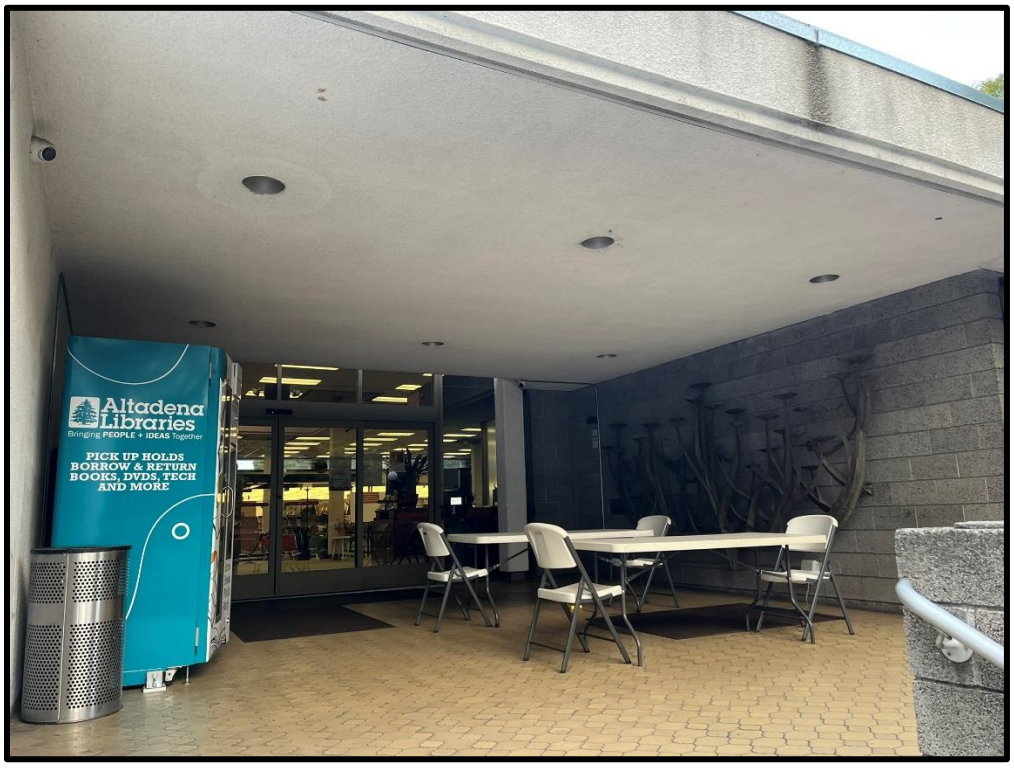
South elevation David Green sculpture. Planned to be relocated.



South elevation bridge, facing north. Bridge expected to remain, materials replaced in-kind if necessary.



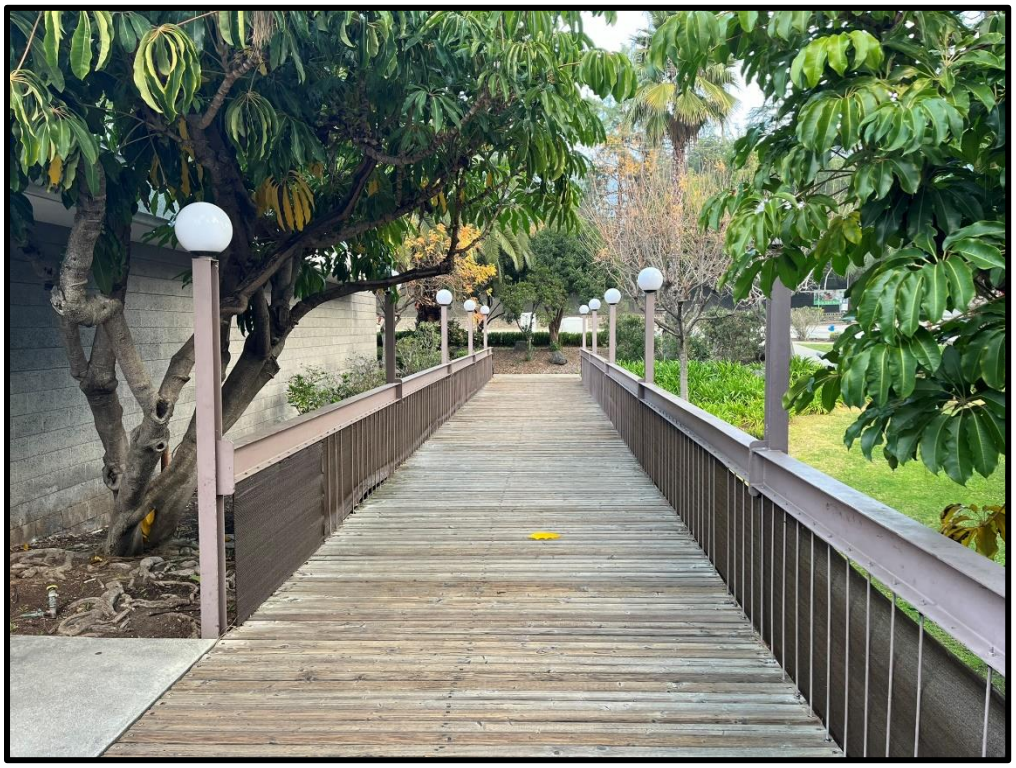
South elevation bridge and east elevation of community room, facing northwest. Bridge expected to remain, materials replaced in-kind if necessary. New fenestration is proposed on east elevation of community room.




East elevation entry, facing east. Non-historic-period doors and windows which will likely be replaced.



East elevation entry David Green sculpture. No current plan to relocate.



East elevation bridge, facing north. Bridge expected to remain, materials replaced in-kind if necessary.



East elevation bridge, facing west. Bridge expected to remain, materials replaced in-kind if necessary.



North elevation, west and central portion, facing south. New entrance door and parking lot planned for west portion of the elevation, potential sunken amphitheater planned for central portion; several trees will be removed.



North elevation, east portion, facing south. Fenestration and doors will change.



West elevation, facing northeast. No expected modifications to this elevation.



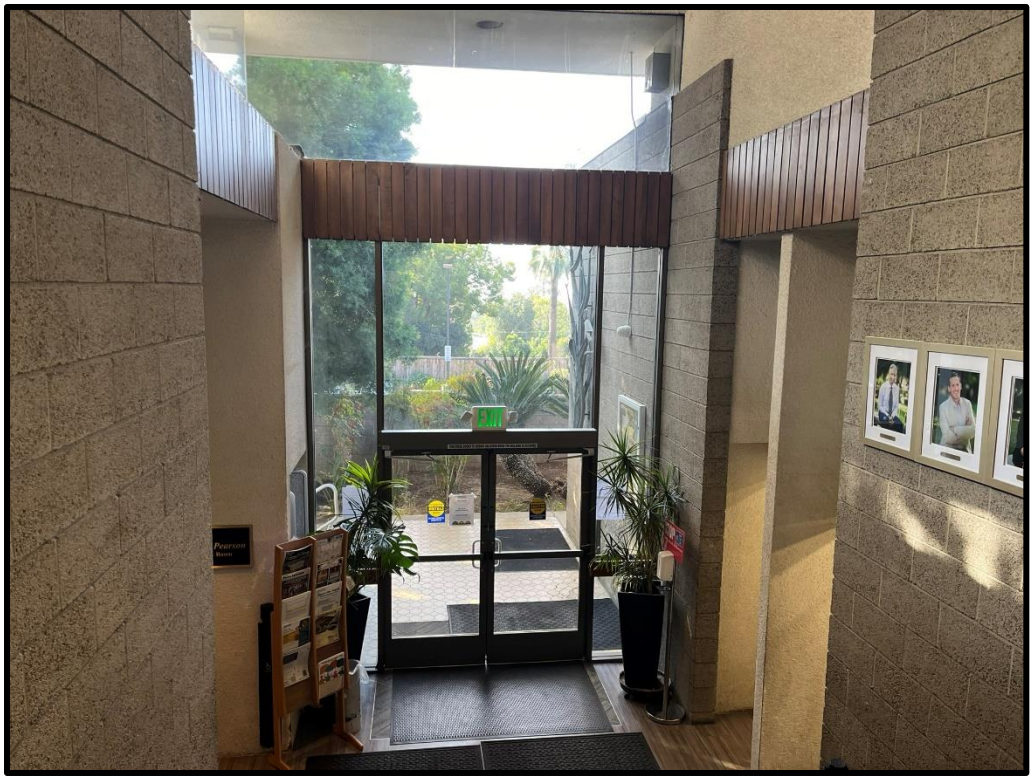
HVAC enclosure. Modifications will be made to make them more cohesive with the building.




North and east elevation pathway and landscaping, facing southwest. Concrete walkway will be modified.



East elevation community garden, facing northwest; will not experience significant changes.



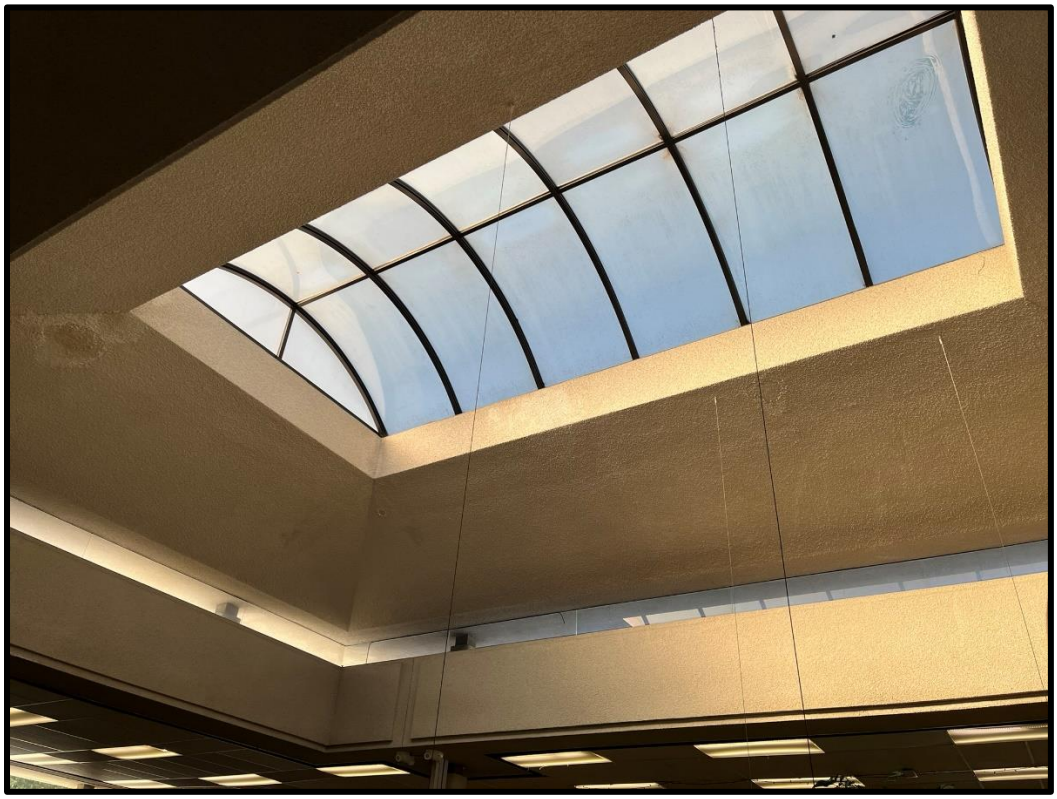

Interior view of south elevation entrance. Community room access on the left of image, bathrooms on the right of image. Space will be significantly modified.




Interior view, community room, facing west.



Sunken reading area, facing southwest. Steps on left side of image will be replaced with ADA-compliant ramp, globe lamps will remain. Portion of wood wall on left side of image will be removed.



Skylight clearstory windows over sunken reading area. Glass will be replaced.




Office on eastern portion of main floor, facing northeast. Walls, doors, and existing windows will be removed and replaced. Space will be reconfigured.



Western portion of main floor, facing northwest. New office area will be constructed, enclosing area.




Office on western portion of main floor, facing northeast. Walls, doors, and existing windows will be removed and replaced. Space will be reconfigured.




Western portion of main floor, facing southeast. New lobby area will be constructed here.




Example of circulation desk with detailed relief. The tiles will be reused.



Ca. 1967 kitchenette on ground floor breakroom which should be salvaged.

# APPENDIX A

# PROJECT PLANS



# ALTADENA MAIN LIBRARY

600 E MARIPOSA STREET ALTADENA, CA, 91001

## PROJECT DIRECTORY

| | | | |
|---|---|---|---|
| ARCHITECT: | ANDERSON BRULÉ ARCHITECTS<br>325 SOUTH FIRST STREET, 4TH FLOOR<br>SAN JOSE, CA 95113<br>CONTACT: ANGSHUPRIYA PATHAK<br>PHONE: (408) 298-1885 | CIVIL ENGINEER: | VCA ENGINEERS, INC.<br>1041 S. GARFIELD AVE., SUITE 210<br>ALHAMBRA, CA 91801<br>CONTACT: VIRGIL C. AOANAN<br>PHONE: (323) 729-6098 |
| LANDSCAPE ARCHITECT: | DEPARTMENT OF SPACE<br>480 N INDIAN HILL BLVD, SUITE C<br>CLAREMONT, CA 91711<br>CONTACT: BEN MCCOY<br>PHONE: (909) 32-1460 | ACOUSTICS, AV & IT: | WAVEGUIDE, LLC<br>6060 CENTER DR., SUITE 870<br>LOS ANGELES, CA 90045<br>CONTACT: BRANDON MOSST<br>PHONE: (310) 213-0112 |
| STRUCTURAL ENGINEER: | MIYAMOTO INTERNATIONAL, INC.<br>1450 HALYARD DRIVE, SUITE ONE<br>WEST SACRAMENTO, CA 95691<br>CONTACT: TRACI WONG<br>PHONE: (833) 270-8848 | MEP, LIGHTING, T-24 ENERGY COMPLIANCE: | DCGA ENGINEERS, INC.<br>4750 EAST ONTARIO MILLS PARKWAY<br>ONTARIO, CA 91764<br>CONTACT: CHRIS VILLALOBOS<br>PHONE: (909) 987-0017 |

## VICINITY MAP




## PROJECT INFORMATION

ASSESSOR'S PARCEL NUMBER: 5840-010-900

ZONING DISTRICT: LA COUNTY UNINCOPRPORATED

PROJECT DESCRIPTION:

THE RENOVATION AND ADDITION (ADD ALTERNATE) OF THE ALTADENA MAIN LIBRARY ADDRESSES COMMUNITY NEEDS FOR A LARGER MULTI-USE COMMUNITY SPACE, WHICH COULD OPERATE AFTER LIBRARY HOURS, MAKER AND FABRICATION SPACES TO MEET EDUCATIONAL AND COMMUNITY NEEDS, AS WELL ADDITIONAL MEETING SPACES THROUGH-OUT.

THE PROJECT ENCOMPASSES 3,962 SQUARE FEET OF ADDITIONS, IN ADDITION TO THE FULL RENOVATION OF THE EXISTING BUILDING.

THE PROJECT ADDRESSES DEFICIENCIES WITH THE BUILDING REGARDING TECHNOLOGY, ACCESS, AND SEISMIC RESISTANCE.
ALL SYSTEMS ARE BEING UPGRADED INCLUDING MECHANICAL, PLUMBING, (INCLUDING ADDITIONAL AND ACCESSIBLE RESTROOMS), ELECTRICAL, AND STRUCTURAL.

THE SITE IS BEING UPGRADED WITH THE RENOVATION OF THE PEDESTRIAN BRIDGES, UPDATED PLANTINGS AND IRRIGATION, AND THE ADDITION OF EXTERIOR FUNCTIONAL SPACES, SUCH AS AN EXTERIOR DECK.

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| L100A | SITE CONSTRUCTION PLAN A-L1.01 | M004 | MECHANICAL DETAILS AND PIPING DIAGRAM |
| L111 | SITE CONSTRUCTION DETAILS-L111 | M200 | LOWER LEVEL MECHANICAL DEMOLITION PLAN |
| L200 | IRRIGATION PLAN-L1.01 | M201 | MAIN LEVEL MECHANICAL DEMOLITION PLAN |
| L200A | IRRIGATION PLAN-L1.01 | M202 | LOWER LEVEL MECHANICAL PLAN |
| L300 | PLANTING PLAN-L1.01 | M203 | MAIN LEVEL MECHANICAL PLAN |
| L300A | PLANTING PLAN A-L1.01 | M300 | MECHANICAL DEMOLITION ROOF PLAN |
| | | M301 | MECHANICAL ROOF PLAN |
| **ARCHITECTURAL** | | MD201 | LOWER LEVEL MECHANICAL PLAN - ADD ALTS |
| A100 | SITE PLAN | MD202 | MAIN LEVEL MECHANICAL PLAN - ADD ALTS |
| A130 | SITE DETAILS | MD301 | MECHANICAL ROOF PLAN - ADD ALTS |
| A160 | DEMO FLOOR PLAN - LOWER LEVEL | | |
| A161 | DEMO FLOOR PLAN - MAIN LEVEL | **PLUMBING** | |
| A170 | DEMO ROOF PLAN - LOW ROOF | P000 | PLUMBING GENERAL NOTES |
| A171 | DEMO ROOF PLAN - HIGH ROOF | P001 | PLUMBING GENERAL NOTES SYMBOLS AND ABBREVIATIONS |
| A180 | DEMO RCP - LOWER LEVEL | P002 | PLUMBING SCHEDULES & DETAILS |
| A181 | DEMO RCP - MAIN LEVEL LOWER CEILING | P003 | PLUMBING DETAILS |
| A182 | DEMO RCP - MAIN LEVEL UPPER CEILING | P200 | LOWER LEVEL PLUMBING DEMOLITION PLAN |
| A200 | FLOOR PLAN - LOWER LEVEL | P201 | MAIN LEVEL PLUMBING DEMOLITION PLAN |
| A201 | FLOOR PLAN - MAIN LEVEL | P202 | LOWER LEVEL PLUMBING PLAN |
| A210 | ROOF PLAN - LOW ROOF | P203 | MAIN LEVEL PLUMBING PLAN |
| A211 | ROOF PLAN - HIGH ROOF | P300 | PLUMBING DEMOLITION ROOF PLAN |
| A220 | RCP - LOWER LEVEL | P301 | PLUMBING ROOF PLAN |
| A221 | RCP - MAIN LEVEL LOWER CEILING | PD201 | LOWER LEVEL PLUMBING PLAN - ADD ALTS |
| A222 | RCP - MAIN LEVEL UPPER CEILING | PD202 | MAIN LEVEL PLUMBING PLAN - ADD ALTS |
| A230 | FINISH PLAN - LOWER LEVEL | PD301 | PLUMBING ROOF PLAN - ADD ALTS |
| A231 | FINISH PLAN - MAIN LEVEL | | |
| A240 | FINISH LEGEND | **ELECTRICAL** | |
| A290 | ENLARGED TOILET ROOM PLANS AND ELEVATIONS | E000 | ELECTRICAL GENERAL |
| A291 | ENLARGED TOILET ROOM PLANS AND ELEVATIONS | E002 | ELETRICAL SYMBOLS LIST AND ABBREVIATIONS |
| A292 | ENLARGED PLANS | E003 | LIGHTING FIXTURE SCHEDULE AND NOTES |
| A293 | ENLARGED PLANS | E004 | SINGLE LINE DIAGRAM AND FEEDER SCHEDULE |
| A294 | ENLARGED PLANS | E005 | BRANCH CIRCUIT VOLTAGE DROP CALCULATIONS |
| A300 | EXTERIOR ELEVATIONS | E111 | ELECTRICAL SITE PLAN |
| A400 | BUILDING SECTIONS | E200 | LOWER LEVEL ELECTRICAL DEMOLITION PLAN |
| A401 | BUILDING SECTIONS | E201 | MAIN LEVEL ELECTRICAL DEMOLITION PLAN |
| A410 | WALL SECTIONS | E202 | LOWER LEVEL LIGHTING PLAN |
| A450 | STAIR AND ELEVATOR SECTIONS, ENLARGED PLANS, AND DETAILS | E203 | MAIN LEVEL LIGHTING PLAN |
| A500 | INTERIOR ELEVATIONS | E204 | LOWER LEVEL POWER PLAN |
| A501 | INTERIOR ELEVATIONS | E205 | MAIN LEVEL POWER PLAN |
| A502 | INTERIOR ELEVATIONS | E206 | ELECTRICAL ROOF PLAN |
| A503 | INTERIOR ELEVATIONS | ED201 | LOWER LEVEL LIGHTING PLAN - ADD ALTS |
| A504 | INTERIOR ELEVATIONS | ED202 | MAIN LEVEL LIGHTING PLAN - ADD ALTS |
| A505 | INTERIOR ELEVATIONS | ED203 | LOWER LEVEL POWER PLAN - ADD ALTS |
| A506 | INTERIOR ELEVATIONS | ED204 | MAIN LEVEL POWER PLAN - ADD ALTS |
| A600 | DOOR TYPES, FRAME TYPES, AND SCHEDULES | ED205 | ELECTRICAL ROOF PLAN - ADD ALTS |
| A610 | EXTERIOR WINDOW TYPES | E401 | ELECTRICAL DETAILS |
| A611 | INTERIOR WINDOW TYPES | E402 | ELECTRICAL DETAILS |
| A800 | INTERIOR PARTITION TYPES | E403 | ELECTRICAL DETAILS |
| A804 | INTERIOR DETAILS | E501 | PANEL SCHEDULES |
| A820 | CASEWORK DETAILS | | |
| | | **AUDIO/VISUAL REFERENCE** | |
| **ARCHITECTURAL ADDITIVE ALTERNATES** | | AV000 | LEGEND |
| AD 0.0 | ADDITIVE ALTERNATES - SHEET LIST & KEYPLANS | AV101 | FLOOR PLAN - LOWER LEVEL - AV SYSTEMS |
| AD 0.1 | ADD ALTERNATE SITE PLAN | AV101A | FLOOR PLAN - LOWER LEVEL - ADD ALTS - AV SYSTEMS |
| AD 0.3 | ADD ALTERNATE EXTERIOR ELEVATIONS | AV102 | FLOOR PLAN - MAIN LEVEL - AV SYSTEMS |
| AD 0.4 | ADD ALTERNATE BUILDING SECTIONS | AV201 | TELE MEETING ROOM ENLARGED PLANS |
| AD 1.1 | NOT IN USE - COMMUNITY ROOM ADDITION - FLOOR PLAN - LOWER LEVEL | AV202 | STAFF MEETING ROOM ENLARGED PLANS |
| | | AV203 | DIGITAL SIGNAGE ENLARGED PLANS |
| AD 1.2 | NOT IN USE - COMMUNITY ROOM ADDITION - RCP - LOWER LEVEL | AV204 | GAMING ROOM ENLARGED PLANS |
| AD 1.3 | NOT IN USE - COMMUNITY ROOM ADDITION - FLOOR PLAN + RCP - MAIN LEVEL | AV205 | COMMUNITY ROOM ENLARGED PLANS |
| | | AV206 | OPEN WORK AREA ENLARGED PLANS |
| AD 1.4 | NOT IN USE - COMMUNITY ROOM ADDITION - ROOF PLAN + WALL SECTIONS | AV301 | TELE MEETING ROOM SECTIONS AND ELEVATIONS |
| | | AV302 | STAFF MEETING ROOM SECTIONS AND ELEVATIONS |
| AD 1.5 | NOT IN USE - ALTERNATE MID LEVEL - FLOOR PLAN, RCP, + ELEVATIONS | AV303 | DIGITAL SIGNAGE SECTIONS AND ELEVATIONS |
| | | AV304 | GAMING ROOM SECTIONS AND ELEVATIONS |
| AD 1.7 | NOT IN USE - COMMUNITY ROOM ADDITION - INTERIOR & EXTERIOR ELEVATIONS | AV305 | COMMUNITY ROOM SECTIONS AND ELEVATIONS |
| | | AV306 | OPEN WORK AREA SECTIONS AND ELEVATIONS |
| AD 1.8 | NOT IN USE - COMMUNITY ROOM ADDITION - INTERIOR ELEVATIONS | | |
| | | **AUDIO/VISUAL INFRASTRUCTURE** | |
| AD 2.1 | NOT IN USE - ENLARGED ENTRY - DEMO PLAN, FLOOR PLAN, ROOF PLAN + RCP | EAV000 | LEGEND |
| | | EAV101 | FLOOR PLAN - LOWER LEVEL - AV INFRASTRUCTURE |
| AD 2.2 | NOT IN USE - ENLARGED ENTRY - PLANS & INTERIOR ELEVATIONS | EAV102 | FLOOR PLAN - MAIN LEVEL - AV INFRASTRUCTURE |
| AD 2.3 | NOT IN USE - ENLARGED ENTRY - WALL SECTIONS | EAV101A | FLOOR PLAN - LOWER LEVEL - ADD ALTS - AV INFRASTRUCTURE |
| AD 4 | NORTH PATIO + SLIDING DOORS - FLOOR PLAN + ELEVATIONS | EAV201 | TELE MEETING ROOM ENLARGED PLANS |
| AD 5 | NOT IN USE - TERRAZO IN LIEU OF POLISHED CONCRETE | EAV202 | STAFF MEETING ROOM ENLARGED PLANS |
| AD 6 | NOT IN USE - BRISE SOLEIL - FLOOR PLAN + ELEVATION | EAV204 | GAMING ROOM ENLARGED PLANS |
| AD 7 | MEETING ROOM ADDITION - FLOOR PLAN, RCP, + ELEVATIONS | EAV205 | COMMUNITY ROOM ENLARGED PLANS |
| AD 8 | WOOD SLAT CEILING | EAV203 | DIGITAL SIGNAGE ENLARGED PLANS |
| | | EAV206 | OPEN WORK AREA ENLARGED PLANS |
| **STRUCTURAL** | | EAV301 | TELE MEETING ROOM SECTIONS AND ELEVATIONS |
| S0.01 | GENERAL NOTES | EAV302 | STAFF MEETING ROOM SECTIONS AND ELEVATIONS |
| S0.02 | GENERAL MATERIAL NOTES | EAV303 | DIGITAL SIGNAGE SECTIONS AND ELEVATIONS |
| S0.11 | TYPICAL FOUNDATION & SOG DETAILS | EAV304 | GAMING ROOM SECTIONS AND ELEVATIONS |
| S0.13 | TYPICAL CONCRETE DETAILS | EAV305 | COMMUNITY ROOM SECTIONS AND ELEVATIONS |
| S0.21 | TYPICAL MASONRY DETAILS | EAV306 | OPEN WORK AREA SECTIONS AND ELEVATIONS |
| S0.31 | TYPICAL STRUCTURAL STEEL DETAILS | | |
| S0.32 | TYPICAL STRUCTURAL STEEL DETAILS | **TELECOM** | |
| S0.33 | TYPICAL STEEL STAIR DETAILS | T000 | TELECOM SYMBOLS AND NOTES |
| S0.41 | TYPICAL METAL DECK DETAILS | T001 | TELECOM STANDARDS (1 OF 2) |
| S0.43 | TYPICAL CHANNEL STRUT DETAILS | T002 | TELECOM STANDARDS (2 OF 2) |
| S0.51 | TYPICAL COLD-FORMED STEEL DETAILS | T100 | TELECOM SITE PLAN |
| S0.52 | TYPICAL INTERIOR COLD-FORMED STEEL DETAILS | T100A | TELECOM SITE PLAN - ADD ALTS |
| S0.53 | TYPICAL EXTERIOR COLD-FORMED STEEL DETAILS | T101 | TELECOM LOWER LEVEL FLOOR PLAN |
| S1.00 | LOWER LEVEL FOUNDATION PLAN | T101A | TELECOM LOWER LEVEL FLOOR PLAN - ADD ALTS |
| S1.00A | LOWER LEVEL FOUNDATION PLAN - ADD ALTS | T102 | TELECOM MAIN LEVEL FLOOR PLAN |
| S1.01 | MAIN LEVEL FOUNDATION PLAN | T102A | TELECOM MAIN LEVEL FLOOR PLAN - ADD ALTS |
| S1.02 | FIRST FLOOR FRAMING PLAN | T201 | TELECOM ENLARGED PLANS |
| S1.02A | FIRST FLOOR FRAMING PLAN - ADD ALTS | T201A | TELECOM ENLARGED PLANS - ADD ALTS |
| S1.03 | LOW ROOF FRAMING PLAN | T301 | TELECOM RACK ELEVATIONS |
| | | T301A | TELECOM RACK ELEVATIONS - ADD ALTS |
| | | T401A | TELECOM RISER DIAGRAMS - ADD ALTS |


## CLIENT REVIEW

THIS DESIGN SET HAS BEEN REVIEWED & APPROVED BY:

CLIENT 1 & CLIENT 2

ANDERSON BRULÉ ARCHITECTS MAY PROCEED WITH WORK IN THE NEXT PHASE.

DATE:

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CONSULTANTS LOGO

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PROJECT TITLE:

ALTADENA MAIN LIBRARY

600 E MARIPOSA STREET
ALTADENA, CA 91001

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| PROJECT NO. | 2111010 |
| DATE: | 01-08-2024 |

SHEET TITLE:

**COVER SHEET**

SCALE:


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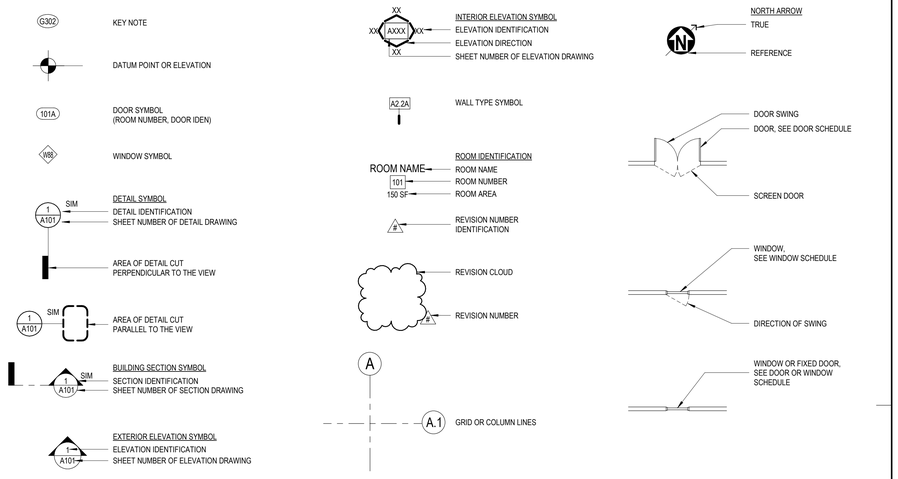
## GENERAL NOTES

1. ALL PARTS OF THE WORK - INCLUDING MATERIALS, METHODS, ASSEMBLIES, ETC. - MUST COMPLY WITH THE MINIMUM REQUIREMENTS OF THE GOVERNING REGULATIONS OF ALL FEDERAL, STATE, DISTRICT AND LOCAL AUTHORITIES HAVING JURISDICTION OVER THE PROJECT AS WELL AS THOSE GREATER REQUIREMENTS INDICATED BY THE CONTRACT DOCUMENTS. NO PART OF THE CONTRACT DOCUMENTS MAY BE CONSTRUED TO REQUIRED OR PERMIT WORK CONTRARY TO A GOVERNING REGULATION.
2. THE TERM "OWNER", AS NOTED ON DRAWINGS AND AS SPECIFIED HEREIN, REFERS TO PUBLIC FACILITIES GROUP.
3. THE TERM "ARCHITECT", AS NOTED IN DRAWINGS, REFERS TO ANDERSON BRULE ARCHITECTS, INC.
4. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS WITH THOSE SHOWN ON THE DRAWINGS AND PROMPTLY REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO STARTING THE AFFECTED WORK.
5. THE ARCHITECTURAL DRAWINGS ARE A PART OF A LARGER SET OF DRAWINGS WHICH, WHEN COMPLETE, CONSISTS OF ALL DRAWINGS LISTED BY THE INDEX OF DRAWINGS. THE WORK DESCRIBED BY THE DRAWINGS OF ANY ONE DISCIPLINE MAY BE AFFECTED BY THE WORK DESCRIBED ON DRAWINGS OF ANOTHER DISCIPLINE AND MAY REQUIRE REFERENCE TO THE DRAWINGS OF ANOTHER DISCIPLINE. PARTIAL SETS OF DRAWINGS ARE INCOMPLETE AND SHOULD NOT BE DISTRIBUTED OR UTILIZED BY THE CONTRACTOR. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE WORK OF ALL SUBCONTRACTORS, TRADES, AND SUPPLIERS WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BEFORE COMMENCING CONSTRUCTION, AND TO ASSURE THAT ALL PARTIES ARE AWARE OF ALL REQUIREMENTS, REGARDLESS OF WHERE THE REQUIREMENTS OCCUR IN THE CONTRACT DOCUMENTS, WHICH MIGHT AFFECT THE WORK OF THAT PARTY.
6. AS PART OF THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE WORK OF ALL SUBCONTRACTORS, TRADES, AND SUPPLIERS, THE CONTRACTOR SHALL ENDEAVOR TO IDENTIFY AND NOTIFY THE ARCHITECT OF ANY CONFLICTS BETWEEN THE WORK OF DIFFERENT PARTIES AT THE EARLIEST POSSIBLE DATE SO AS TO ALLOW A REASONABLE AND ADEQUATE TIME FOR THE CONFLICT TO BE RESOLVED WITHOUT DELAYING THE WORK. ALL DEVIATIONS FROM THAT WHICH IS REQUIRED BY THE CONTRACT DOCUMENTS MUST BE APPROVED IN ADVANCE BY THE ARCHITECT.
7. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL BE THOROUGHLY FAMILIAR WITH ALL ASPECTS OF THE WORK AS SET FORTH IN THESE DRAWINGS AND SPECIFICATIONS.
8. PERMITS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING APPROVAL AND PERMITS FOR ALL DESIGN/BUILD SYSTEMS, FOR EXAMPLE: FIRE SPRINKLERS AND UNDERGROUND FIRE LINES, AND VERIFY THAT THE SYSTEMS MEET ALL APPLICABLE CODE REQUIREMENTS.
9. MODIFICATIONS: ANY MODIFICATIONS TO THE BUILDING DESIGN RESULTING FROM FIELD CONDITIONS SHALL BE REPORTED TO THE ARCHITECT ALONG WITH ANY REQUIRED COSTS OR SAVINGS PRIOR TO CONSTRUCTION.
10. SHOP DRAWINGS: NEITHER THE ARCHITECT'S REVIEW NOR APPROVAL OF SHOP DRAWINGS SHALL RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR DEVIATIONS FROM DRAWINGS OR SPECIFICATIONS UNLESS HE/SHE HAS CALLED THE ARCHITECT'S ATTENTION (IN WRITING) TO SUCH DEVIATIONS AT THE TIME OF SUBMISSION, NOR SHALL IT RELIEVE HIM/HER OF RESPONSIBILITY FOR ERRORS OF ANY SORT IN THE SHOP DRAWINGS.
11. DIMENSIONS: THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB SITE PRIOR TO COMMENDING WORK AND SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT FOR RESOLUTION PRIOR TO THE START OF CONSTRUCTION.
12. MEANS AND METHODS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES AND PROCEDURES EMPLOYED IN THE PERFORMANCE OF WORK ON OR ABOUT THE JOB SITE. THE CONTRACTOR SHALL COORDINATE AND VERIFY ALL WORK PERFORMED BY SUBCONTRACTORS.
13. JOB SAFETY: THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE SAFETY CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, AND THE REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD HARMLESS THE OWNER AND THE ARCHITECT FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH PERFORMANCE OF WORK ON THIS PROJECT.
14. NECESSARY SUPPORTS: THE STRUCTURE IS DESIGNED AS A STABLE UNIT AFTER ALL COMPONENTS ARE IN PLACE. THE CONTRACTOR SHALL PROVIDE ALL SHORING AND BRACING NECESSARY TO ENSURE THE STABILITY OF ANY AND ALL PARTS OF THE BUILDING DURING CONSTRUCTION.
15. UTILITY CONNECTIONS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING APPROVAL AND PERMIT FOR ALL UTILITY CONNECTION AND VERITY THAT THE CONNECTIONS MEET ALL APPLICABLE CODE REQUIREMENTS.
16. COORDINATION: IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL ASPECTS OF THE WORK
17. COORDINATION: IN THE EVENT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY SHOWN ON THE CONSTRUCTION DOCUMENTS, THEN THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AND QUALITY AS FOR SIMILAR CONDITIONS THAT ARE SHOWN AND ARE TO BE INCLUDED AS PART OF THE WORK.
18. ALL PRODUCTS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS, SPECIFICATIONS AND RECOMMENDATIONS.
19. ALL OPEN JOINTS, PENETRATIONS AND OTHER OPENINGS IN THE BUILDING ENVELOPE SHALL BE SEALED, CAULKED, GASKETED OR WEATHER STRIPPED TO LIMIT AIR LEAKAGE, AND PROVIDE A WEATHERTIGHT CONDITION.
20. GRADING SHALL MATCH EXISTING CONDITIONS AT LIMIT OF WORK EDGES.
21. ALL ITEMS SHOWN OR NOTED ARE NEW UNLESS SPECIFICALLY NOTED AS EXISTING.
22. PROVIDE FRAMING, BLOCKING, AND MOUNTING DEVICES AS REQUIRED FOR MOUNTING ALL EQUIPMENT, CASEWORK, ACCESSORIES, AND FIXTURES PROVIDED BY ALL TRADES INCLUDING MECHANICAL, PLUMBING, ELECTRICAL, LIGHTING, FIRE PROTECTION, ETC. COORDINATE WITH ALL TRADES TO DETERMINE ALL MOUNTING REQUIREMENTS.
23. ALL RATED CONSTRUCTION ASSEMBLIES SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE REQUIREMENTS PUBLISHED BY THE LISTING AGENCY.
24. PROVIDE ISOLATION BETWEEN DISSIMILAR METALS AS REQUIRED TO PREVENT CORROSION CAUSED BY GALVANIC ACTION.
25. DETAILS AND NOTES LABELED "TYP." OR CALLED OUT AT, OR REFERRING TO, TYPICAL CONDITIONS, SHALL APPLY AT ALL OCCURRENCES OF SUCH CONDITIONS AND AT SIMILAR CONDITIONS WITH MODIFICATIONS THAT CAN BE REASONABLE INFERRED FROM THE DRAWINGS.
26. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASSURE ALL CONSTRUCTION ACTIVITIES WILL NOT INTERFERE WITH EXISTING OVERHEAD AND UNDERGROUND UTILITIES WITHIN THE SITE AND WITHIN IMMEDIATE PROXIMITY TO THE SITE AND TO COORDINATE FULLY WITH ALL UTILITY COMPANIES.
27. ALL NEW BUILDINGS SHALL HAVE APPROVED RADIO COVERAGE FOR EMERGENCY REPSPONDERS PER CFC SECTION 510 EMERGENCY RESPONDER RADIO COVERAGE.

## ARCHITECTURAL ABBREVIATIONS

| | |
|---|---|
| AB | ANCHOR BOLT |
| ABV | ABOVE |
| AC | ASPHALT CONCRETE |
| ACOUS | ACOUSTICAL |
| ACT | ACOUSTICAL CEILING TILE |
| AD | AREA DRAIN |
| ADJ | ADJUSTABLE |
| AFF | ABOVE FINISH FLOOR |
| AFS | ABOVE FINISH SLAB |
| ALT | ALTERNATE |
| ALUM | ALUMINUM |
| ANOD | ANODIZED |
| AP | ACESS PANEL |
| APPROX | APPROXIMATELY |
| ARCH | ARCHITECTURAL |
| AV | AUDIO VISUAL |
| BD | BOARD |
| BLDG | BUILDING |
| BLKG | BLOCKING |
| BLW | BELOW |
| BM | BENCHMARK |
| BS | BOTH SIDES |
| BSMT | BASEMENT |
| BTM | BOTTOM |
| BTWN | BETWEEN |
| BW | BOTH WAYS |
| CAB | CABINET |
| CAHR | CLEAR ALL HEART REDWOOD |
| CB | CATCH BASIN |
| CBU | CEMENTITIOUS BACKER UNIT |
| CCTV | CLOSE CIRCUIT TELEVISION |
| CEM PLAS | CEMENT PLASTER |
| CER | CERAMIC |
| CG | CORNER GUARD |
| CH | CHANNEL |
| CI | CAST IRON |
| CIP | CAST IN PLACE |
| CJ | CONSTRUCTION JOINT |
| CLG | CEILING |
| CLR | CLEAR |
| CMU | CONCRETE MASONRY UNIT |
| CNTR | COUNTER |
| COL | COLUMN |
| COM | COMMON |
| CONC | CONCRETE |
| CONF | CONFERENCE |
| CONN | CONNECTION |
| CONST | CONSTRUCTION |
| CONT | CONTINUOUS |
| CORR | CORRIDOR |
| CT | CERAMIC TILE |
| CTRSK | COUNTERSINK |
| CW | COLD WATER |
| d | PENNY |
| DBL | DOUBLE |
| DEM | DEMOLISH |
| DF | DRINKING FOUNTAIN |
| DIA | DIAMETER |
| DIAG | DIAGONAL |
| DIM | DIMENSION |
| DISP | DISPENSER |
| DN | DOWN |
| DR | DOOR |
| DS | DOWNSPOUT |
| DTL | DETAIL |
| DWG | DRAWING |
| (E) | EXISTING |
| E | EAST |
| EA | EACH |
| EB | EXPANSION JOINT |
| EF | EXHAUST FAN |
| EL | ELEVATION |
| ELECT | ELECTRICAL |
| ELEV | ELEVATOR |
| EMER | EMERGENCY |
| ENCL | ENCLOSURE |
| ENGR | ENGINEER |
| EQ | EQUAL |
| EQUIP | EQUIPMENT |
| EXH | EXHAUST |
| EXP | EXPANSION |
| EXST | EXISTING |
| EXT | EXTERIOR |
| FA | FIRE ALARM |
| FCU | FAN COIL UNIT |
| FD | FLOOR DRAIN |
| FDC | FIRE DEPARTMENT CONNECTION |
| FEC | FIRE EXTINGUISHER CABINET |
| FF | FINISH FACE |
| FG | FINISH GRADE |
| FHC | FIRE HOSE CABINET |
| FHMS | FLAT HEAD MACHINE SCREW |
| FHWS | FLAT HEAD WOOD SCREW |
| FIN | FINISH |
| FIN FL | FINISH FLOOR |
| FLR | FLOOR |
| FLRG | FLOORING |
| FLUOR | FLUORESCENT |
| FND | FOUNDATION |
| FOC | FACE OF CONCRETE |
| FOF | FACE OF FINISH |
| FOS | FACE OF STUD |
| FT | FOOT, FEET |
| FTG | FOOTING |
| FURN | FURNITURE |
| FURR | FURRING |
| GA | GAUGE |
| GALV | GALVANIZED |
| GB | GRAB BAR |
| GC | GENERAL CONTRACTOR |
| GFRC | GLASS FIBER REINFORCED CONCRETE |
| GFRG | GLASS FIBER REINFORCED GYPSUM |
| GL | GLASS |
| GLU LAM | GLUE LAMINATED |
| GR | GRADE |
| GS | GALVANIZED STEEL |
| GSM | GALVANIZED SHEET METAL |
| GYP BD | GYPSUM BOARD |
| HB | HOSE BIBB |
| HC | HOLLOW CORE |
| HDR | HEADER |
| HDW | HARDWARE |
| HM | HOLLOW METAL |
| HORIZ | HORIZONTAL |
| HR | HOUR |
| HT | HEIGHT |
| HVAC | HEATING,VENTILATION, AIR CONDITIONING |
| HW | HOT WATER |
| HWD | HARDWOOD |
| ID | INSIDE DIAMETER |
| INCL | INCLUDE |
| INFO | INFORMATION |
| INSUL | INSULATION |
| INT | INTERIOR |
| INV | INVERT |
| JAN | JANITOR |
| JH | JOIST HANGER |
| JT | JOINT |
| KD | KILN FRIED |
| KIT | KITCHEN |
| LAB | LABORATORY |
| LAM | LAMINATE, LAMINATION |
| LAV | LAVATORY |
| LB | POUND |
| LF | LINEAR FOOT |
| LH | LEFT HAND |
| LTG | LIGHTING |
| LVR | LOUVER |
| LW | LIGHT WEIGHT |
| MACH | MACHINE |
| MAN | MANUAL |
| MATL | MATERIAL |
| MAX | MAXIMUM |
| MB | MACHINE BOLT |
| MDO | MEDIUM DENSITY OVERLAY |
| ME | METAL EDGE |
| MECH | MECHANICAL |
| MEMB | MEMBRANE |
| MFR | MANUFACTURER |
| MH | MANHOLE |
| MIN | MINIMUM |
| MISC | MISCELLANEOUS |
| ML | METAL LATH |
| MRGB | MOISTURE RESISTANT GYPSUM BOARD |
| MS | MACHINE SCREW |
| MTD | MOUNTED |
| MTG | MOUNTING |
| MTL | METAL |
| MUL | MULLION |
| N | NORTH |
| NA | NOT APPLICABLE |
| NIC | NOT IN CONTRACT |
| NO | NUMBER |
| NOM | NOMINAL |
| NRC | NOISE REDUCTION COEFFICIENT |
| NRCA | NATIONAL ROOFING CONTRACTORS ASSOCIATION |
| NTS | NOT TO SCALE |
| OBSC | OBSCURE |
| OC | ON CENTER |
| OD | OUTSIDE DIAMETER |
| OF | OVERFLOW DRAIN |
| OFCI | OWNER FURNISHED, CONTRACTOR INSTALLED |
| OFOI | OWNER FURNISHED, OWNER INSTALLED |
| OFS | OUTSIDE FACE OF STUD |
| OH | OPPOSITE HAND |
| OPP | OPPOSITE |
| PA | PUBLIC ADDRESS |
| PCF | POUNDS PER CUBIC FOOT |
| PDF | POWDER DRIVEN FASTENER |
| PERF | PERFORATED |
| PERP | PERPENDICULAR |
| PL | PLATE OR PROPERTY LINE |
| PLAM | PLASTIC LAMINATE |
| PLAS | PLASTER |
| PLF | POUNDS PER LINEAR FOOT |
| PLWD | PLYWOOD |
| PR | PAIR |
| PREFAB | PREFABRICATED |
| PRKG | PARKING |
| PROJ | PROJECT |
| PROP | PROPERTY |
| PSF | POUNDS PER SQAURE FOOT |
| PSI | POUNDS PER SQAURE INCH |
| PT | PRESSURE TREATED |
| PTDF | PRESSURE TREATED DOUGLAS FIR |
| PTN | PARTITION |
| PVC | POLYVINYL CHLORIDE |
| PWR | POWDER |
| QT | QUARRY TILE |
| QTR | QUARTER |
| QUAN | QUANTITY |
| R | RISER |
| RA | RETURN AIR |
| RAD | RADIUS |
| RCP | ROOF DRAIN |
| RD | REFLECTED CEILING PLAN |
| RE | RIM ELEVATION |
| REF | REFERENCE |
| REFR | REFRIGERATOR |
| REINF | REINFORCE (D) (ING) (MENT) |
| REM | REMOVE |
| REQD | REQUIRED |
| RET | REVISION |
| REV | RETURN |
| RH | RIGHT HAND |
| RHMS | ROUND HEAD MACHINE SCREW |
| RHWS | ROUND HEAD WOOD SCREW |
| RM | ROOM |
| RND | ROUND |
| RO | ROUGH OPENING |
| ROW | RIGHT OF WAY |
| RSR | RISER |
| RWD | REDWOOD |
| RWL | RAIN WATER LEADER |
| S | SOUTH |
| S/S | SERVICE SINK |
| SA | SUPPLY AIR |
| SC | SOLID CORE |
| SCD | SEE CIVIL DRAWINGS |
| SCHED | SCHEDULE |
| SCVWD | SANTA CLARA VALLEY WATER DISTRICT |
| SECT | SECTION |
| SED | SEE ELECTRICAL DRAWINGS |
| SHT | SHEET |
| SHTG | SHEETING |
| SHTHG | SHEATHING |
| SIM | SIMILAR |
| SK | SINK |
| SLD | SEE LANDSCAPE DRAWINGS |
| SM | SHEET METAL |
| SMD | SEE MECHANICAL DRAWINGS |
| SMS | SHEET METAL SCREW |
| SPD | SEE PLUMBING DRAWINGS |
| SPEC | SPECIFICATION |
| SPKR | SPEAKER |
| SQ | SQAURE |
| SQ FT | SQUARE FOOT |
| SQ IN | SQUARE INCH |
| SS | SANITARY SEWER |
| SSD | SEE STRUCTURAL DRAWINGS |
| SST | STAINLESS STEEL |
| ST | STREET |
| STAG | STAGGERED |
| STC | SOUND TRANSMISSION CLASS |
| STD | STANDARD |
| STL | STEEL |
| STOR | STORAGE |
| STRUCT | STRUCTURAL |
| SUSP | SUSPENDED |
| T | TREAD |
| T&G | TONGUE & GROOVE |
| TBD | TO BE DETERMINED |
| TEL | TELEPHONE |
| TEMP | TEMPORARY |
| THRU | THROUGH |
| TK BD | TACK BOARD |
| TMPD GL | TEMPERED GLASS |
| TOC | TOP OF CURB |
| TOJ | TOP OF JOIST |
| TOP | TOP OF PARAPET |
| TOS | TOP OF SLAB |
| TV | TELEVISION |
| TYP | TYPICAL |
| UL | UNDERWRITERS LABORATORY |
| UNO | UNLESS NOTED OTHERWISE |
| UPS | UNINTERRUPTABLE POWER SUPPLY |
| UTIL | UTILITY |
| VB | VINYL BASE |
| VCP | VITRIFIED CLAY PIPE |
| VCT | VINYL COMPOSITION TILE |
| VERT | VERTICAL |
| VEST | VESTIBULE |
| VG | VERTICAL GRAIN |
| VIF | VERIFY IN FIELD |
| VOL | VOLUME |
| VTR | VENT TO ROOF |
| VTW | VENT TO WALL |
| VWC | VINYL WALL COVERING |
| W | WEST |
| W/ | WITH |
| W/O | WITHOUT |
| WW | WALL TO WALL |
| WC | WATER CLOSET |
| WD | WOOD |
| WDW | WINDOW |
| WF | WIDE FLANGE |
| WH | WATER HEATER |
| WI | WOODWORK INSTITUTE |
| WP | WATERPROOF |
| WS | WOOD SCREW |
| WSCT | WAINSCOT |
| WT | WEIGHT |
| WWF | WELDED WIRE FABRIC |
| XFMR | TRANSFORMER |
| @ | AT |
| C | CENTER LINE |
| " | DEGREES |
| Ø | DIAMETER |
| = | EQUAL |
| > | GREATER THAN |
| < | LESS THAN |
| ± | PLUS OR MINUS (TOLERANCE) |
| # | POUNDS |
| P | PROPERTY LINE |
| ' | FOOT OR FEET |
| " | INCH OR INCHES |

## ARCHITECTURAL LEGEND





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## GENERAL NOTES, ABBREVIATIONS, SYMBOLS, AND CONVENTIONS

SCALE: 1/4" = 1'-0"


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## 1. APPLICABLE CODES

CODE REQUIREMENTS INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:

2022 CALIFORNIA BUILDING STANDARDS CODE (CBC)
2022 CALIFORNIA MECHANICAL CODE (CMC)
2022 CALIFORNIA PLUMBING CODE (CPC)
2022 CALIFORNIA ELECTRICAL CODE (CEC)
2022 CALIFORNIA ENERGY CODE

## 2. OTHER STANDARDS

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN)
2022 CALIFORNIA FIRE CODE AND ADOPTED AMENDMENTS

## 3. BUILDING ANALYSIS DATA BLOCK:

OCCUPANCY CLASSIFICATION AND USE:
PER 2022 CBC SECTION 303.4 — A-3, B

CONSTRUCTION TYPE:
PER 2022 CBC TABLE 303.4 — TYPE VB FULLY SPRINKLERED

ALLOWABLE BUILDING HEIGHT IN FEET
ABOVE GRADE PLANE PER TABLE 504.3
S (WITHOUT AREA INCREASE) — 60'-0"
PROVIDED — +/-27'-6"

ALLOWABLE NUMBER OF STORIES
ABOVE GRADE PLANE PER 2022 CBC TABLE 504.4
S (WITHOUT AREA INCREASE) — 2 STORIES
PROVIDED — 2 STORIES

ALLOWABLE AREA FACTOR IN
SQUARE FEET PER TABLE 506.2
SM (WITHOUT HEIGHT INCREASE) PER FLOOR — 18,000 SF
PROVIDED PER FLOOR (ENCLOSED AREA) — 17,464 SF (MAIN LEVEL)
+8,181 SF (LOWER LEVEL)
25,645 SF TOTAL

REFER TO SHEET G110 FOR OCCUPANT LOAD

*EXISTING BUILDING DOES NOT HAVE CONSTRUCTION TYPE DESIGNATED IN THE RECORD DRAWINGS. BASED ON CONSTRUCTION DETAILS OF EXTERIOR MASONRY BLOCK WALLS AND INTERIOR MASONRY AND PLASTER ON WOOD STUD PARTITIONS, IT IS DEDUCED THAT THE EXISTING BUILDING IS 1-HR RATED. THEREFORE THE RENOVATION AND ADDITION IS BEING PROPOSED TO BE TYPE VB FULLY SPRINKLERED.*

## 4. GENERAL BUILDING LIMITATIONS (BUILDING HEIGHT AND AREA)

**SECTION 504.1 GENERAL**
THE HEIGHT, IN FEET, AND THE NUMBER OF STORIES OF A BUILDING SHALL BE DETERMINED BASED ON THE TYPE OF CONSTRUCTION, OCCUPANCY CLASSIFICATION AND WHETHER THERE IS AN AUTOMATIC SPRINKLER SYSTEM INSTALLED THROUGHOUT THE BUILDING.

**SECTION 504.3** - HEIGHT IN FEET - THE MAXIMUM HEIGHT, IN FEET, OF A BUILDING SHALL NOT EXCEED THE LIMITS SPECIFIED IN TABLE 504.3.

BUILDING HEIGHT / STORIES
2022 CBC - TABLE 504.3

*ALLOWABLE BUILDING HEIGHT IN FEET ABOVE GRADE PLANE*

| OCCUPANCY | CONSTRUCTION TYPE | MAXIMUM HEIGHT | PROPOSED HEIGHT | MAXIMUM STORIES | PROPOSED STORIES |
|---|---|---|---|---|---|
| A-3 | VB | 60 FT | 27' - 6" | 2 | 2 |

AREA INCREASE PER FRONTAGE INCREASE PER 506.3 - N/A?

NONSEPARATED OCCUPANCY PER 508.3 - FOLLOWING MOST RESTRICTIVE A-3 OCCUPANCY USE

## 5. CONSTRUCTION TYPE

TYPE VB FULLY SPRINKLERED NFPA 13 SYSTEM

**TABLE 601** - FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (HOURS)

FIRE RESISTANCE RATING
PER 2022 CBC - TABLE 601

| BUILDING ELEMENT | TYPE VB CONSTRUCTION |
|---|---|
| PRIMARY STRUCTURAL FRAME | 0 |
| BEARING WALLS<br>• EXTERIOR<br>• INTERIOR | <br>0<br>0 |
| NONBEARING WALLS & PARTITIONS<br>• EXTERIOR | <br>0 |
| NONBEARING WALLS & PARTITIONS<br>• INTERIOR | <br>0 |
| FLOOR CONSTRUCTION & ASSOCIATED SECONDARY STRUCTURAL MEMBERS | 0 |
| ROOF CONSTRUCTION & ASSOCIATED SECONDARY STRUCTURAL MEMBERS | 0 |
| SHAFT ENCLOSURES - PER CBC 713.4 | 1 |
| STAIR ENCLOSURES - PER CBC 1023.2 | 1 |

**TABLE 602** - FIRE-RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE.

**SECTION 602.5 TYPES V**
TYPE V CONSTRUCTION IS THAT TYPE OF CONSTRUCTION IN WHICH THE STRUCTURAL ELEMENTS, EXTERIOR WALLS AND INTERIOR WALLS ARE OF ANY MATERIALS PERMITTED BY THIS CODE.

EXTERIOR WALL RATING REQUIREMENTS PER 2022 CBC - TABLE 705.5

| OCCUPANCY | TYPE OF CONSTRUCTION | BEARING/ LOCATION | FIRE SEPARATION DISTANCE | EXTERIOR WALL RATING REQUIRED |
|---|---|---|---|---|
| A-3 | VB | NORTH | N/A | 0-HR |
| | | EAST | 11 FT | 0-HR |
| | | SOUTH | N/A | 0-HR |
| | | WEST | 14'-3" | 0-HR |

*NOTE: NORTH (FRONT SIDE) OF BUILDING IS MEASURED ROUGHLY FROM CENTERLINE OF STREET FOR FDS ON LAKECHIME DR*

## 6. FIRE AND SMOKE PROTECTION FEATURES

705.2.2 TYPE III, IV OR V CONSTRUCTION

PROJECTIONS FROM WALLS OF TYPE III, IV OR V CONSTRUCTION SHALL BE OF ANY APPROVED MATERIAL.

MINIMUM DISTANCE OF PROJECTION
PER 2022 CBC - TABLE 705.2

| FIRE SEPARATION DISTANCE - FSD (FEET) | MINIMUM DISTANCE FROM LINE USED TO DETERMINE FSD |
|---|---|
| 0 TO LESS THAN 2 | PROJECTIONS NOT PERMITTED |
| 2 TO LESS THAN 3 | 24 INCHES |
| 3 TO LESS THAN 5 | 24 INCHES PLUS 8 INCHES FOR EVERY FOOT OF FSD BEYOND 3 FEET OR FRACTION THEREOF |
| 5 OR GREATER | 40 INCHES |

**SECTION 705.3 BUILDING ON THE SAME LOT**
FOR THE PURPOSES OF DETERMINING THE REQUIRED WALL AND OPENING PROTECTION, PROJECTIONS AND ROOF-COVERING REQUIREMENTS, BUILDING ON THE SAME LOT SHALL BE ASSUMED TO HAVE AN IMAGINARY LINE BETWEEN THEM.

WHERE A NEW BUILDING IS TO BE ERECTED ON THE SAME LOT AS AN EXISTING BUILDING, THE LOCATION OF THE ASSUMED IMAGINARY LINE WITH RELATION TO THE EXISTING BUILDING SHALL BE SUCH THAT THE EXTERIOR WALL AND OPENING PROTECTION OF THE EXISTING BUILDING MEET THE CRITERIA AS SET FORTH IN SECTIONS 705.5 AND 705.8.

FOR GROUP A, E, H, I, L AND R OCCUPANCIES, HIGH-RISE BUILDINGS, AND OTHER APPLICATIONS LISTED IN SECTION 1.11 REGULATED BY THE OFFICE OF THE STATE FIRE MARSHAL, EXTERIOR WALLS SHALL BE FIRE-RESISTANCE RATED IN ACCORDANCE WITH TABLES 601 AND 602 AND THIS SECTION. THE REQUIRED FIRE-RESISTANCE RATING OF EXTERIOR WALLS SHALL BE RATED FOR EXPOSURE TO FIRE FROM BOTH SIDES.

MAXIMUM AREA OF EXTERIOR WALL OPENINGS BASED ON FIRE SEPARATION DISTANCE AND DEGREE OF OPENING PROTECTION PER 2019 CBC - TABLE 705.8

| FIRE SEPARATION DISTANCE (FT) | DEGREE OF OPENING PROTECTION | ALLOWABLE AREA |
|---|---|---|
| 5 TO LESS THAN 10[E,F,I] | UNPROTECTED, SPRINKLERED (UP, S) | 25% |
| 10 TO LESS THAN 15[E,F,G,I] | UNPROTECTED, SPRINKLERED (UP, S) | 45% |
| 15 TO LESS THAN 20[F,G,I] | UNPROTECTED, SPRINKLERED (UP, S) | 75% |
| 20 TO LESS THAN 25[F,G,I] | UNPROTECTED, SPRINKLERED (UP, S) | NO LIMIT |

UP, S = UNPROTECTED OPENINGS IN BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1.

**SECTION 705.8.3 UNPROTECTED OPENINGS**
WHERE UNPROTECTED OPENINGS ARE PERMITTED, WINDOWS AND DOORS SHALL BE CONSTRUCTED OF ANY APPROVED MATERIALS. GLAZING SHALL CONFORM TO THE REQUIREMENTS OF CHAPTERS 24 AND 26.

**SECTION 903.2.1.3 GROUP A-3**
AN AUTOMATIC SPRINKLER SYSTEM SHALL BE PROVIDED THROUGHOUT STORIES CONTAINING GROUP A-3 OCCUPANCIES AND THROUGHOUT ALL STORIES FROM THE GROUP A-3 OCCUPANCY TO AND INCLUDING THE LEVELS OF EXIT DISCHARGE SERVING THAT OCCUPANCY WHERE ONE OF THE FOLLOWING CONDITIONS EXISTS:

- THE FIRE AREA EXCEEDS 12,000 SQUARE FEET (1115 M2).
- THE FIRE AREA HAS AN OCCUPANT LOAD OF 300 OR MORE.
- THE FIRE AREA IS LOCATED ON A FLOOR OTHER THAN A LEVEL OF EXIT DISCHARGE SERVING SUCH OCCUPANCIES.
- THE STRUCTURE EXCEEDS 12,000 SQUARE FEET (1155 M2), CONTAINS MORE THAN ONE FIRE AREA CONTAINING EXHIBITION AND DISPLAY ROOMS, AND IS SEPARATED INTO TWO OR MORE BUILDINGS BY FIRE WALLS OF LESS THAN FOUR-HOUR FIRE-RESISTANCE RATING WITHOUT OPENINGS.

**SECTION 903.3** - INSTALLATION REQUIREMENTS
AUTOMATIC SPRINKLER SYSTEMS SHALL BE DESIGNERED AND INSTALLED IN ACORDANCE WITH SECTIONS 903.3.1 THROUGH 903.3.9.

## 7. SPRINKLERS

**SECTION 903.3.1** - STANDARDS
SPRINKLER SYSTEMS SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH SECTION 903.3.1.1 UNLESS OTHERWISE PERMITTED BY SECTIONS 903.3.1.2 AND 903.3.1.3 AND OTHER CHAPTERS OF THIS CODE, AS APPLICABLE.

**SECTION 903.3.1.1** - NFPA 13 SPRINKLER SYSTEMS
WHERE THE PROVISIONS OF THIS CODE REQUIRE THAT A BUILDING OR PORTION THEREOF BE EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH THIS SECTION, SPRINKLERS SHALL BE INSTALLED THROUGHOUT IN ACCORDANCE WITH NFPA 13 AS AMENDED IN CHAPTER 35 EXCEPT AS PROVIDED IN SECTION 903.3.1.1.1 AND 903.1.1.2.

## 8. BICYCLE PARKING

**SECTION 5.106.4 BICYCLE PARKING**
FOR BUILDINGS WITHIN THE AUTHORITY OF CALIFORNIA BUILDING STANDARDS COMMISSION AS SPECIFIED IN SECTION 103, COMPLY WITH SECTION 5.106.4.1. FOR BUILDINGS WITHIN THE AUTHORITY OF THE DIVISION OF THE STATE ARCHITECT PURSUANT TO SECTION 105, COMPLY WITH SECTION 5.106.4.2.

**SECTION 5.106.4.2 BICYCLE PARKING**
[DSA-SS] FOR PUBLIC SCHOOLS AND COMMUNITY COLLEGES, COMPLY WITH SECTIONS 5.106.4.2.1 AND 5.106.4.2.2.

## 8. EGRESS

**SECTION 1006.3.2** - EGRESS BASED ON OCCUPANT LOAD
EACH STORY AND OCCUPIED ROOF SHALL HAVE THE MINIMUM NUMBER OF SEPARATE AND DISTINCT EXITS, OR ACCESS TO EXITS, AS SPECIFIED IN TABLE 1006.3.2. A SINGLE EXIT OR ACCESS TO A SINGLE EXIT SHALL BE PERMITTED IN ACCORDANCE WITH SECTION 1006.3.3. THE REQUIRED NUMBER OF EXITS, OR EXIT ACCESS STAIRWAYS OR RAMPS PROVIDING ACCESS TO EXITS, FROM ANY STORY OR OCCUPIED ROOF SHALL BE MAINTAINED UNTIL ARRIVAL AT THE EXIT DISCHARGE OR A PUBLIC WAY.

MINIMUM NUMBER OF EXITS OR ACCESS TO EXITS PER STORY
2022 CBC - TABLE 1006.3.3

| OCCUPANT LOAD PER STORY | MINIMUM NUMBER OF EXITS OR ACCESS TO EXITS FROM STORY |
|---|---|
| 501-1000 | 3 |

## 9. PLUMBING CALCULATIONS

**2022 CALIFORNIA PLUMBING CODE**

**CHAPTER 4: PLUMBING FIXTURES AND FIXTURE FITTINGS**

**SECTION 422.0 MINIMUM NUMBER OF REQUIRED FIXTURES**

422.1 FIXTURE COUNT - PLUMBING FIXTURES SHALL BE PROVIDED FOR THE TYPE OF BUILDING OCCUPANCY AND IN THE MINIMUM NUMBER SHOWN IN TABLE 422.1. THE TOTAL OCCUPANY LOAD AND OCCUPANCY CLASSIFICATION SHALL BE DETERMINED IN ACCORDANCE WITH THE CALIFORNIA BUILDING CODE. OCCUPANCY CLASSIFICATION NOT SHOWN IN TABLE 422.1 SHALL BE CONSIDERED SEPARATELY BY THE AUTHORITY HAVING JURISDICTION.

THE MINIMUM NUMBER OF FIXTURES SHALL BE CALCULATED AT 50 PERCENT MALE AND 50 PERCENT FEMALE BASED ON THE TOTAL OCCUPANT LOAD.

## OCCUPANCY CALCULATIONS

HYBRID CALCS - CPC 2022 TABLE 4-1 & CBC 2022 TABLE 1004.5 FOR READING & STACK AREAS

| USE | TOTAL AREA (SF) | OCCUPANT LOAD FACTOR | NUMBER OF OCCUPANTS (ROUNDED TO THE NEAREST WHOLE NUMBER) | |
|---|---|---|---|---|
| A - UNCONCENTRATED / NON-CONCENTRATED *(CONFERENCE, LOUNGE, PORTABLE SEATING/ TABLE SPACE)* | 3770 | 30 | 126 | A-3 TOTAL # OF OCCUPANTS: 304 |
| A-3 - READING (CH. 10 CBC) | 7105 | 50 | 143 | |
| A-3 - STACKS (CH. 10 CBC) | 3468 | 100 | 35 | |
| B - *(OFFICE, SALES/SOLICITING, ADMINISTRATION, FOOD PROCESSING, COURTROOM, AMBULATORY CLINIC)* | 4468 | 150 | 30 | B TOTAL # OF OCCUPANTS: 30 |
| | | | | **TOTAL: 334** |

ACCESSORY AREAS EXCLUDED IN PLUMBING CALCULATIONS: HALLWAYS & RESTROOMS

## PLUMBING FIXTURE SUMMARY

(2022 CPC TABLE 422-1)

| OCCUPANCY TYPE | NO. OF OCCUPANTS | | WATERCLOSETS | | | URINALS | LAVATORIES | | | DRINKING FOUNTAINS | SERVICE SINK |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | MALE | FEMALE | MALE | FEMALE | ALL GENDER | MALE | MALE | FEMALE | ALL GENDER | 2: 251-500 | |
| A-3 | 152 | 152 | 2:101-200 | 4: 101-200 | 0 | 2: 101-200 | 1:1-200 | 2:101-200 | 0 | | |
| B | 15 | 15 | 1: 1-50 | 1: 1-15 | 0 | 1:1-100 | 1:1-75 | 1: 1-50 | 0 | 1 : 150 | |
| REQUIRED PER CODE | | | 3 | 5 | - | 3 | 2 | 3 | - | 3 | 1 |
| TOTAL PROVIDED | | | - | - | 10 | 0 | - | - | 8 | 4 | 1 |


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**BASE BID CODE ANALYSIS**

SCALE: 1/8" = 1'-0"


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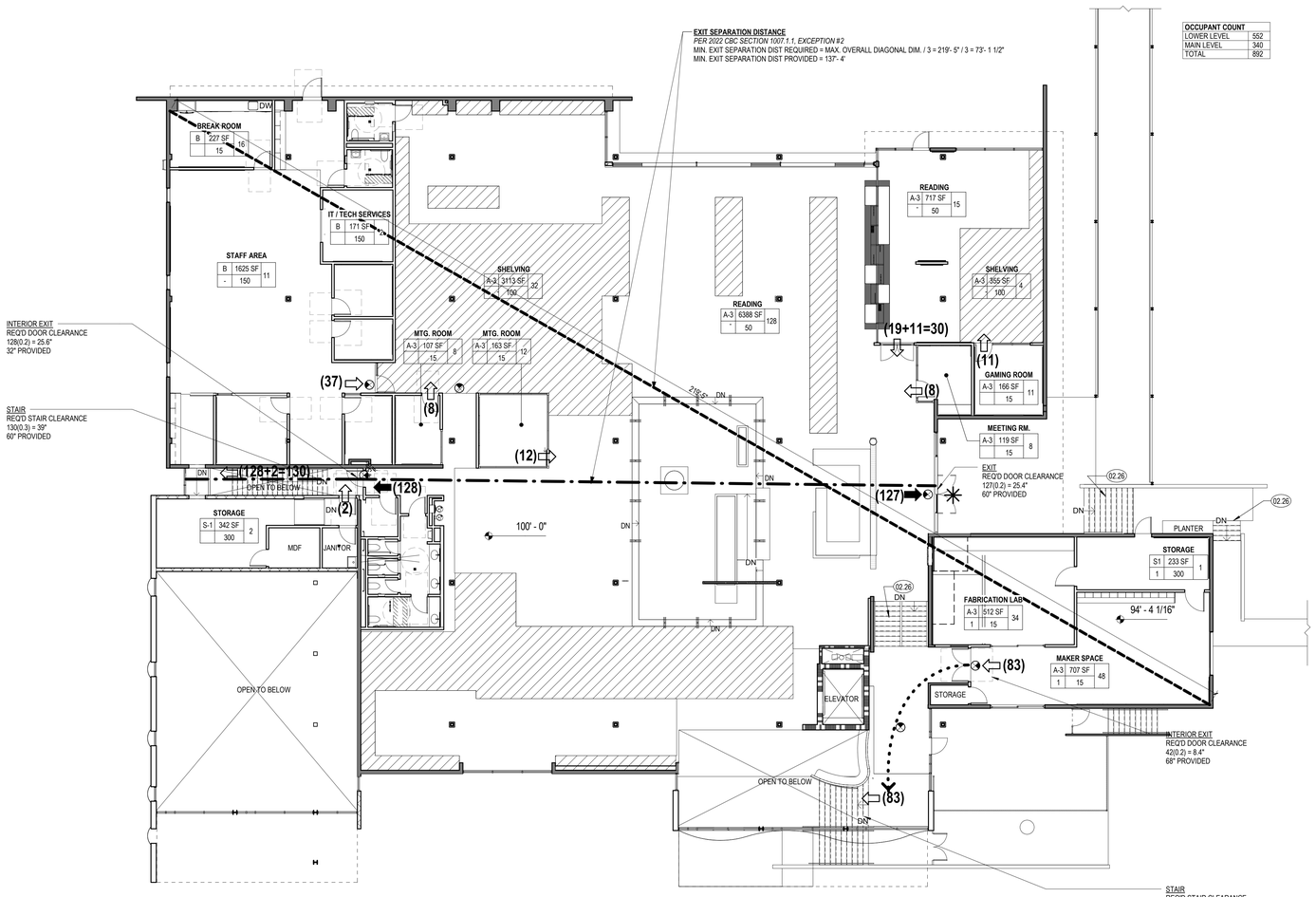
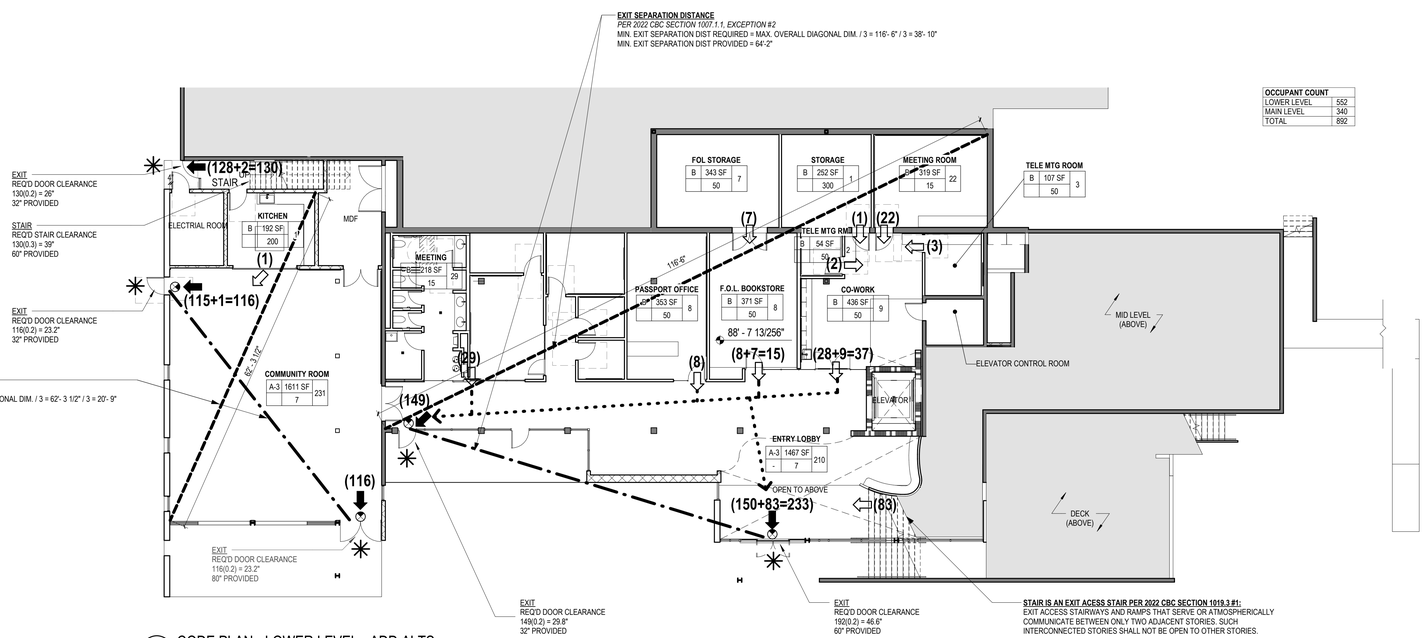



1 CODE PLAN - MAIN LEVEL - ADD ALTS
3/32" = 1'-0"




2 CODE PLAN - LOWER LEVEL - ADD ALTS
3/32" = 1'-0"

## CODE PLAN SHEET NOTES

A. SEE SHEET A800 FOR WALL TYPES
B. ALL GLAZING ASSEMBLIES IN FIRE RATED PARTITIONS TO BE RATED AS REQUIRED TO MAINTAIN RATING OF PARTITION.

## CODE PLAN KEYNOTES

02.26 (E) STAIRS AND HANDRAIL TO REMAIN PER ACCESSIBILITY UPGRADE EXCEPTIONS CA BUILDING CODE 11N-207.1 (EXCEPTION 3), 11B-210.1 (EXCEPTION 2), AND 11B-505.10 (EXCEPTION 3)

## CODE PLAN LEGEND

- SHELVING
- EGRESS PATH OF TRAVEL FROM PROJECT AREA
- OCCUPANT LOAD EXITING THROUGH AN EXIT OR EXIT ACCESS DOORWAY
- OCCUPANT LOAD EXITING THROUGH INTERMEDIATE SPACES
- (##) OCCUPANT LOAD
- STAFF WORKROOM | B | 938 SF | 333 | 1 | 100 | — OCCUPANCY GROUP; # OF OCCUPANTS; OCCUPANCY LOAD FACTOR; MINIMUM NUMBER OF REQUIRED EXITS
- MAX. OVERALL DIAGONAL DIM. OF BUILDING
- EXIT SEPARATION DISTANCE
- EXIT SIGNAGE; SEE ELECTRICAL DRAWINGS
- FEC FIRE EXTINGUISHER CABINET
- EXIT DISCHARGE
- 1 HOUR FIRE RATED PARTITION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## ADD ALTERNATE CODE PLANS

SCALE: 3/32" = 1'-0"


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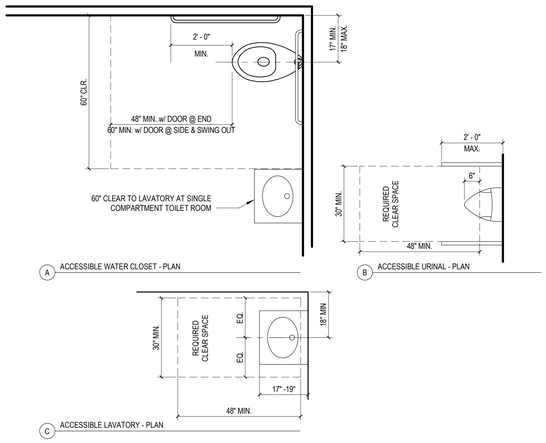
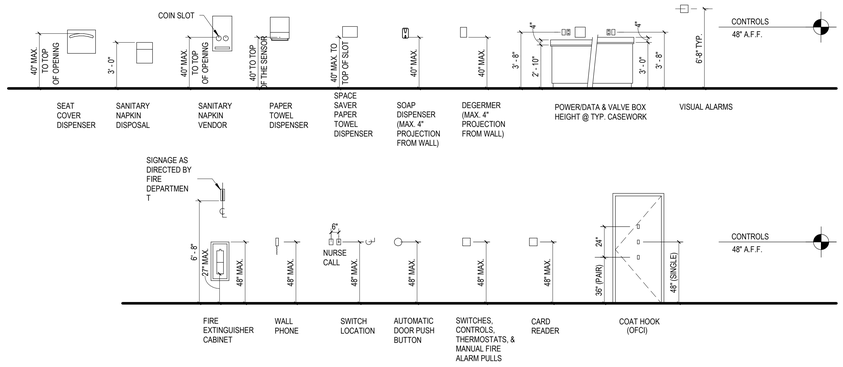
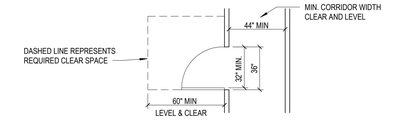


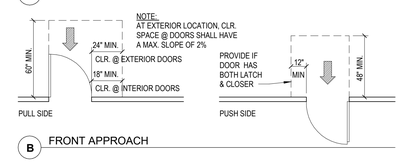

## 1 TYPICAL RESTROOM FIXTURE CLEARANCES
1/2" = 1'-0"



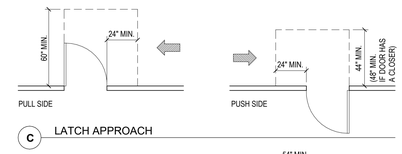

## ADA Mounting Heights
1/4" = 1'-0"



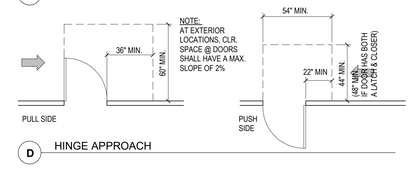

### A GENERAL REQUIREMENTS




### B FRONT APPROACH




### C LATCH APPROACH

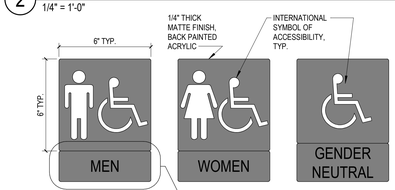


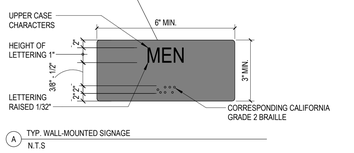

### D HINGE APPROACH

## Accessible Door Clearances
1/4" = 1'-0"

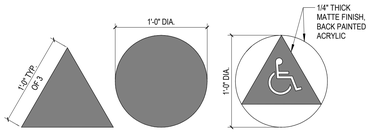



## 2 DOOR SIGNAGE LOCATIONS & MOUNTING
1/4" = 1'-0"



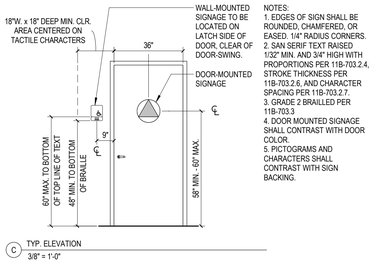




A TYP. WALL-MOUNTED SIGNAGE
N.T.S




B TYP. DOOR-MOUNTED SIGNAGE
N.T.S

REFER TO SHEET WS.17 FOR ADDITIONAL DETAILS

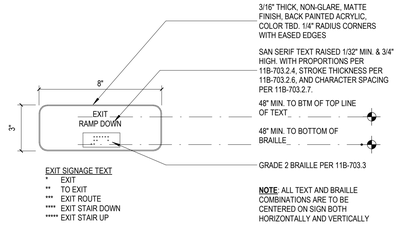



C TYP. ELEVATION
3/8" = 1'-0"

GENERAL SIGNAGE

NOTES:
1. EDGES OF SIGN SHALL BE ROUNDED, CHAMFERED, OR EASED. 1/4" RADIUS CORNERS.
2. SAN SERIF TEXT RAISED 1/32" MIN. AND 3/4" HIGH WITH PROPORTIONS PER 11B-703.2.4, STROKE THICKNESS PER 11B-703.2.6, AND CHARACTER SPACING PER 11B-703.2.7.
3. GRADE 2 BRAILLED PER 11B-703.3
4. DOOR MOUNTED SIGNAGE SHALL CONTRAST WITH DOOR COLOR.
5. PICTOGRAMS AND CHARACTERS SHALL CONTRAST WITH SIGN BACKING.

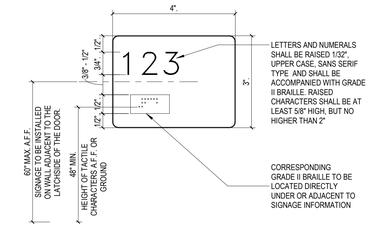
## 3 TOILET ROOM SIGNAGE
3/8" = 1'-0"




EXIT SIGNAGE TEXT
* EXIT
** TO EXIT
*** EXIT ROUTE
**** EXIT STAIR DOWN
***** EXIT STAIR UP

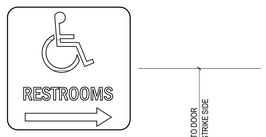
**NOTE**: ALL TEXT AND BRAILLE COMBINATIONS ARE TO BE CENTERED ON SIGN BOTH HORIZONTALLY AND VERTICALLY

## 4 TYPICAL EXIT SIGNAGE
3" = 1'-0"




NOTE:
1. THE INFORMATION ON THE SIGN MUST BE PRESENTED WITH RAISED ARABIC NUMERALS AND CORRESPONDING GRADE II BRAILLE.
2. COORDINATE WITH FACILITIES FOR ROOM NAMES.

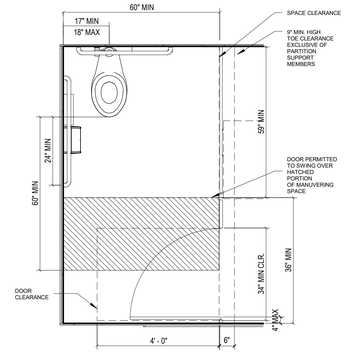
## 5 TYPICAL ROOM SIGNAGE
3/4" = 1'-0"



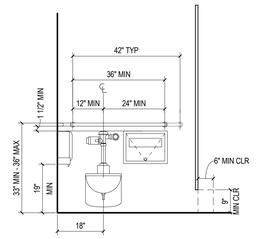

ACCESSIBLE TOILET ROOMS



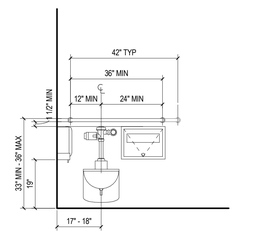

## 6 ACCESSIBLE TOILET ROOM SIGNAGE
1" = 1'-0"



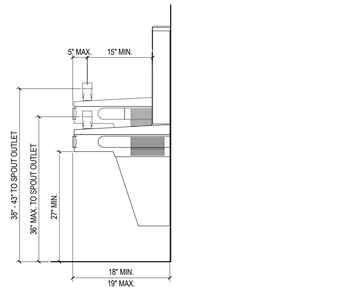

## 12 MULTI-OCCUPANCY ACCESSIBLE TOILET STALL PLAN
1/2" = 1'-0"



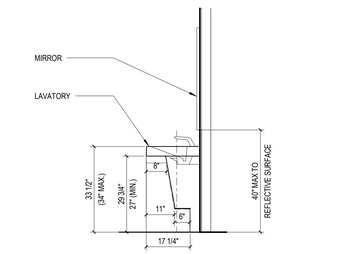

## 8 MULTIOCCUPANCY ACCESSIBLE TOILET
1/2" = 1'-0"



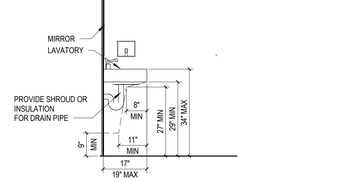

## 7 SINGLE OCCUPANCY TOILET ELEVATION
1/2" = 1'-0"




## 10 DRINKING FOUNTAIN ELEVATION
1" = 1'-0"




## 9 MULTI-OCCUPANCY ACCESSIBLE LAVATORY ELEVATION
1/2" = 1'-0"




## 11 WALL MOUNTED ACCESSIBLE LAVATORY
1/2" = 1'-0"


ANDERSON BRULÉ ARCHITECTS
325 South First Street, 4th Floor
San Jose, California 95113
408.298.1885 | www.aba-arch.com
409 Harvard Avenue, Suite 201
Claremont, CA 91711


CONSULTANTS LOGO

STAMP

NOT FOR CONSTRUCTION

| NO. | DATE | REVISIONS |
|---|---|---|
| | | |

PROJECT TITLE:

# ALTADENA MAIN LIBRARY

600 E MARIPOSA STREET
ALTADENA, CA 91001

| | |
|---|---|
| PROJECT NO. | 2111010 |
| DATE: | 01-08-2024 |

SHEET TITLE:

**ACCESSIBILITY DETAILS AND MOUNTING HEIGHTS**

SCALE: As indicated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G130

1/8/2024 5:56:43 PM

## GENERAL NOTES:

1. ALL WORK PERFORMED IN THIS CONTRACT SHALL CONFORM TO:

   A. PROJECT SPECIFICATIONS.

   B. THE LATEST EDITION AND SUPPLEMENTS OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC) AND AMERICAN PUBLIC WORKS ASSOCIATION (APWA).

   C. CALIFORNIA BUILDING CODE, LATEST VERSION.

2. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE WORK SPECIFIED ON THE DRAWINGS AND WITHIN THE VARIOUS NOTES SHOWN HEREIN.

3. THE EXISTING CONDITIONS SHOWN DIAGRAMMATICALLY ON THE PLANS ORIGINATED FROM AS BUILT DRAWINGS AND FIELD SURVEY. ANY DISCREPANCY SHALL BE REPORTED IMMEDIATELY TO THE ARCHITECT/OAR USING THE PROPER REQUEST FOR INFORMATION FORMS PRIOR TO SUBMITTING HIS BID FOR PROPER ACTION.

4. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES IN THE AREA OF WORK WHICH ARE NOT INCLUDED IN THIS CONSTRUCTION. ANY DAMAGE RESULTING FROM THIS WORK SHALL BE REPAIRED AND/OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.

   UNDERGROUND SERVICE ALERT:

5. BEFORE COMMENCING ANY EXCAVATION, THE CONTRACTOR SHALL OBTAIN AN UNDERGROUND SERVICE ALERT INQUIRY I.D. NUMBER BY CALLING 1-800-422-4133. TWO (2) WORKING DAYS SHALL BE ALLOWED AFTER THE I.D. NUMBER IS OBTAINED AND BEFORE THE EXCAVATION WORK IS STARTED SO THAT UTILITY OWNERS CAN BE NOTIFIED.

   PROTECTION AND RESTORATION OF EXISTING IMPROVEMENTS:

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PUBLIC AND PRIVATE PROPERTY ADJACENT TO THE WORK PER SECTION 01-1100 OF THE STANDARD SPECIFICATIONS.

   REMOVALS:

7. EXISTING STRUCTURES AND SUBSTRUCTURES WHICH ARE INDICATED TO BE REMOVED IN THIS CONSTRUCTION DOCUMENTS SHALL BE TOTALLY REMOVED AND DISPOSED OF OFFSITE, UNLESS OTHERWISE INDICATED. EXISTING FACILITIES WHICH ARE DISCOVERED DURING CONSTRUCTION (INCLUDING WALLS, FOOTINGS AND FOUNDATIONS) SHALL BE REPORTED TO AND COORDINATED WITH THE ARCHITECT AS TO THEIR REMOVAL. CONTRACTOR WILL NOTIFY THE IOR AND OAR IN WRITING PRIOR TO COMMENCING THE WORK.

8. ALL SITE PREPARATION AS INDICATED SHALL BE MADE UNDER THE CONTINUOUS INSPECTION OF THE IOR. SECURE THE REQUIRED PERMIT FROM THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY FOR THE CONSTRUCTION OF TRENCHES, SHORING OR EXCAVATIONS WHICH ARE 5 FEET OR DEEPER OR WORK THAT MAY JEOPARDIZE THE WORKERS. SHORING CALCULATIONS SHALL BE PROVIDED BY THE CONTRACTOR AS REQUIRED FOR APPROVAL AND PERMITTING.

9. THE CONTRACTOR SHALL KEEP THE CONSTRUCTION AREA SUFFICIENTLY DAMPENED TO CONTROL DUST CAUSED BY WORK ACTIVITIES AS REQUIRED BY THE DISTRICT AND JURISDICTIONAL AGENCY.

10. ALL FILL OR BACKFILL SHALL BE COMPACTED TO 90% MAXIMUM DENSITY PER GEOTECHNICAL REPORT.

11. CONSTRUCTION STAKING AND ADJUSTMENTS FOR IMPROVEMENTS SHOWN ON THESE PLANS SHALL BE PERFORMED BY A LICENSED LAND SURVEYOR PAID FOR BY THE CONTRACTOR AND INCLUDED IN THE CONTRACT.

12. VOIDS RESULTING FROM REMOVAL WORK SHALL BE FILLED WITH SUITABLE MATERIALS APPROVED BY THE OWNER RETAINED GEOTECHNICAL ENGINEER AND COMPACTED TO 90% MAXIMUM DENSITY PER GEOTECHNICAL REPORT.

13. UPON COMPLETION OF THE PROJECT, CONTRACTOR SHALL REMOVE EXISTING CONSTRUCTION FENCING, APPURTENANCES AND OFFICE TRAILERS FROM THE SITE. PAVEMENT SHALL BE PATCHED AND REPAIRED TO MATCH ADJACENT PAVEMENT AND APPROVED BY THE IOR.

14. ANY ADDITIONAL SURVEYS OR TESTING AS A RESULT OF CONTRACTOR ERROR OR MISINFORMATION WILL BE CHARGED TO THE CONTRACTOR.

15. CONSTRUCT STRAIGHT GRADES BETWEEN ELEVATIONS SHOWN ON PLAN UNLESS INTERRUPTED BY A GRADE CHANGE LINE. ANY DEVIATION FROM THE GRADING PLAN MUST HAVE PRIOR APPROVAL FROM THE ARCHITECT.

16. GRADE LAWN, TURF, AND PLANTING AREA 1" BELOW DESIGN GRADES INDICATED.

17. ADJUST TO GRADE EXISTING MANHOLE RIMS, VALVE BOXES AND ELECTRICAL VAULT LIDS TO DESIGN GRADES WITHIN THE IMPROVEMENT AREA, UNLESS NOTED OTHERWISE.

18. MAINTAIN A RECORD OF LOCATION OF UTILITY MARKERS ON THE AS-BUILT PLAN AND REINSTALL THEM AFTER PAVING. REPLACE BENT OR UNUSABLE MARKERS FOR ALL UTILITY LINES DISCOVERED WITHIN THE WORK AREA. INSTALL BRASS UTILITY MARKERS INDICATING DIRECTIONS OF LINES AT ALL CHANGES IN DIRECTIONS AFTER PAVING. INFORM THE SURVEYOR TO LOCATE AND RECORD ACTUAL LOCATIONS.

19. IF EXISTING UTILITIES ARE EXPOSED OR DETERMINED TO EXIST UNDER THE ROUGH GRADING SITE, CONTRACTOR SHALL PROVIDE A FLAGGED STAKE THAT INDICATES THEIR LOCATION, TYPE OF UTILITY, SIZE, PIPE MATERIAL AND DEPTH. STAKES SHALL BE INSTALLED NO LESS THAN 50' ON CENTER ON STRAIGHT LINES AND AT BENDS.

20. UNCLOG, CLEAN AND FLUSH THE WORK AREA DRAINAGE SYSTEM AFTER PAVING AND IMMEDIATELY BEFORE A RAIN FORECAST.

21. ALL EXPORT OF MATERIAL FROM THE SITE MUST GO TO A PERMITTED SITE OR A LEGAL DUMPSITE. RECEIPTS FOR ACCEPTANCE OF EXCESS MATERIAL BY A DUMPSITE ARE REQUIRED AND MUST BE PROVIDED TO THE INSPECTOR OF RECORD UPON REQUEST.

22. A COPY OF THE GRADING PERMIT AND APPROVED GRADING PLANS MUST BE IN THE POSSESSION OF A RESPONSIBLE PERSON AND AVAILABLE AT THE SITE AT ALL TIMES.

23. SITE BOUNDARIES, EASEMENTS, DRAINAGE DEVICES, RESTRICTED USE AREAS SHALL BE LOCATED PER CONSTRUCTION STAKING BY A LICENSED SURVEYOR. PRIOR TO GRADING, AS REQUESTED BY THE INSPECTOR OF RECORD, ALL PROPERTY LINES, EASEMENTS, AND RESTRICTED USE AREAS SHALL BE STAKED.

## GENERAL NOTES (cont):

24. IF GRADING AUTHORIZED BY THIS PLAN IS TO EXTEND THROUGH THE RAINY SEASON, APRIL THROUGH NOVEMBER OF THE FOLLOWING YEAR, SEPARATE UPDATED PLANS FOR EROSION CONTROL MUST BE SUBMITTED PRIOR TO OCTOBER TO THE CITY ENGINEER FOR APPROVAL. CONTRACTOR TO PROVIDE STORM WATER PREVENTION PLAN, PRE-CONSTRUCTION AND POST CONSTRUCTION BMPs AND UPDATE FROM TIME TO TIME TO COMPLY WITH THE REQUIREMENTS.

25. CONTRACTOR SHALL INSTALL TEMPORARY FENCING AROUND THE PERIMETER OF THE CONSTRUCTION SITE AND STAGING AREA. FENCING SHALL BE MINIMUM 8' TALL AND SHALL HAVE A DUST/VISION BARRIER ALONG THE FULL LENGTH. THE DUST/VISION BARRIER SHALL EXTEND THE LENGTH OF THE CONSTRUCTION SITE. THE FENCING SHALL BE ANCHORED TO THE SURFACE AND SHALL BE ABLE TO WITHSTAND A 200-POUND HORIZONTAL POINT LOAD IN ANY DIRECTION. WORK AREA AND STAGING AREA SHALL BE SECURE AT ALL TIMES.

26. CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS, INCLUDING NPDES, FROM THE APPROPRIATE JURISDICTIONAL AGENCIES FOR DISCHARGE OF GROUND WATER THAT MAY BE NECESSARY TO ACCOMPLISH EXCAVATIONS SHOWN ON THESE PLANS.

27. STORM DRAINAGE SYSTEMS SHOWN ON THESE PLANS HAVE BEEN DESIGNED FOR THE FINAL SITE CONDITION AT COMPLETION OF THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ADEQUATE DRAINAGE OF THE SITE, DURING INTERIM CONDITIONS OF CONSTRUCTION.

28. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE THE ARCHITECT WITH A COMPLETE SET OF REPRODUCIBLE "AS-BUILT" DRAWINGS OF ALL WORK PERFORMED UNDER THIS CONTRACT, AS SHOWN WITHIN THESE CONSTRUCTION DRAWINGS. ALL FIELD CHANGES SHALL BE SHOWN IN DETAIL ON THE "AS-BUILT" DRAWINGS AND SHALL INCORPORATE AS A MINIMUM, NEW ELEVATIONS, GRADES AND ALIGNMENT OF UNDERGROUND FACILITIES WITH DIMENSIONAL TIES TO BUILDINGS OR OTHER VISIBLE IMPROVEMENTS.

29. THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY, AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS.

30. THE PROPOSED GRADE IS THE FINAL GRADE AND NOT THE ROUGH GRADE. THE CONTRACTOR SHALL SUBTRACT THE THICKNESS OF THE PAVED SECTION AND/OR LANDSCAPE TOPSOIL SECTION TO ARRIVE AT THE ROUGH GRADE ELEVATION.

## LEGEND:

CONSTRUCT CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE.

NEW PLANTER AREA.

CONSTRUCT NEW BUILDING.

NEW STRIPING.

CENTERLINE ----------

RIGHT OF WAY ----------

LOT LINE ----------

WALL ----------

EXIST BUILDING----------

PAVING ----------

EASEMENT ----------

ASPHALT PAVEMENT ----------

TREE ----------

PALM TREE ----------

LIGHT POST ----------

ELECT. BOX ----------

## ABBREVIATIONS:

| | |
|---|---|
| FD | FOUND |
| FFE | FINISH FLOOR ELEVATION |
| FG | FINISH GRADE |
| FL | FLOW LINE ELEVATION |
| FS | FINISH SURFACE ELEVATION |
| GR | EXIST GRADE ELEVATION |
| NTG | NOTHING |
| R | REFERENCE |
| TC | TOP OF CURB |
| TG | TOP OF GRATE ELEVATION |
| TS | TOP OF SLOPE |
| TW | TOP OF WALL ELEVATION |
| WM | WATER METER |

## SHEET INDEX:



| | |
|---|---|
| C-1.0 | GENERAL NOTES, LEGENDS AND ABBREVIATIONS |
| CD-1.0 | SITE DEMOLITION PLAN |
| CD-1.1 | SITE DEMOLITION PLAN_ALTERNATIVE |
| C-2.0 | SITE CONTROL PLAN |
| C-2.1 | SITE CONTROL PLAN_ALTERNATIVE |
| C-3.0 | SITE GRADING PLAN |
| C-3.1 | SITE GRADING PLAN_ALTERNATIVE |
| C-4.0 | SITE UTILITY PLAN |
| C-5.0 | MISCELLANEOUS DETAILS |
| C-5.1 | MISCELLANEOUS DETAILS |



## SURVEYOR'S NOTES:

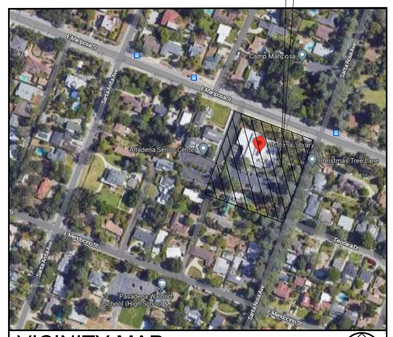
TOPOGRAPHIC SURVEY WAS PROVIDED BY:

MARTIN ENGINEERS
5025 CROWN AVE., LA CAÑADA, CA 91011
PHONE: 818-495-3024

ELEVATIONS:
ELEVATIONS ARE BASED ON CALIFORNIA STATE PLANE V AND THE ELIPSOID ELEVATION OF 1901.46; FEET AT THE TACK&TAG ON THE CURB AR THE WESTER'LY PROPERTY CORNER.

BASIS OF BEARINGS:
THE BEARING OF N 21°12'30" E BETWEEN THE MONUMENTS FOUND ON SANTA ROSA AT THE INTERSECTION AT MONTEROSA AVE AND AT THE INTERSECTION OF DEODARA DRIVE PER TRACT 8302 PAGES 35-36 AS FILED IN MAP BOOK 123 IN THE COUNTY OF LOS ANGELES.

PROJECT LOCATION




## VICINITY MAP

NOT TO SCALE

CONSULTANTS


VCA ENGINEERS INC
1041 S Garfield Avenue
Alhambra, CA 91801
Tel. 323.729.6098
Fax. 323.729.6043


REGISTERED PROFESSIONAL ENGINEER
PANTITO C. ADAMA
No. C36079
Exp. 6/30/24
CIVIL
STATE OF CALIFORNIA

PROJECT

KEYPLAN

ISSUE CHART

| MARK | ISSUE | DATE |
|---|---|---|

Job Number

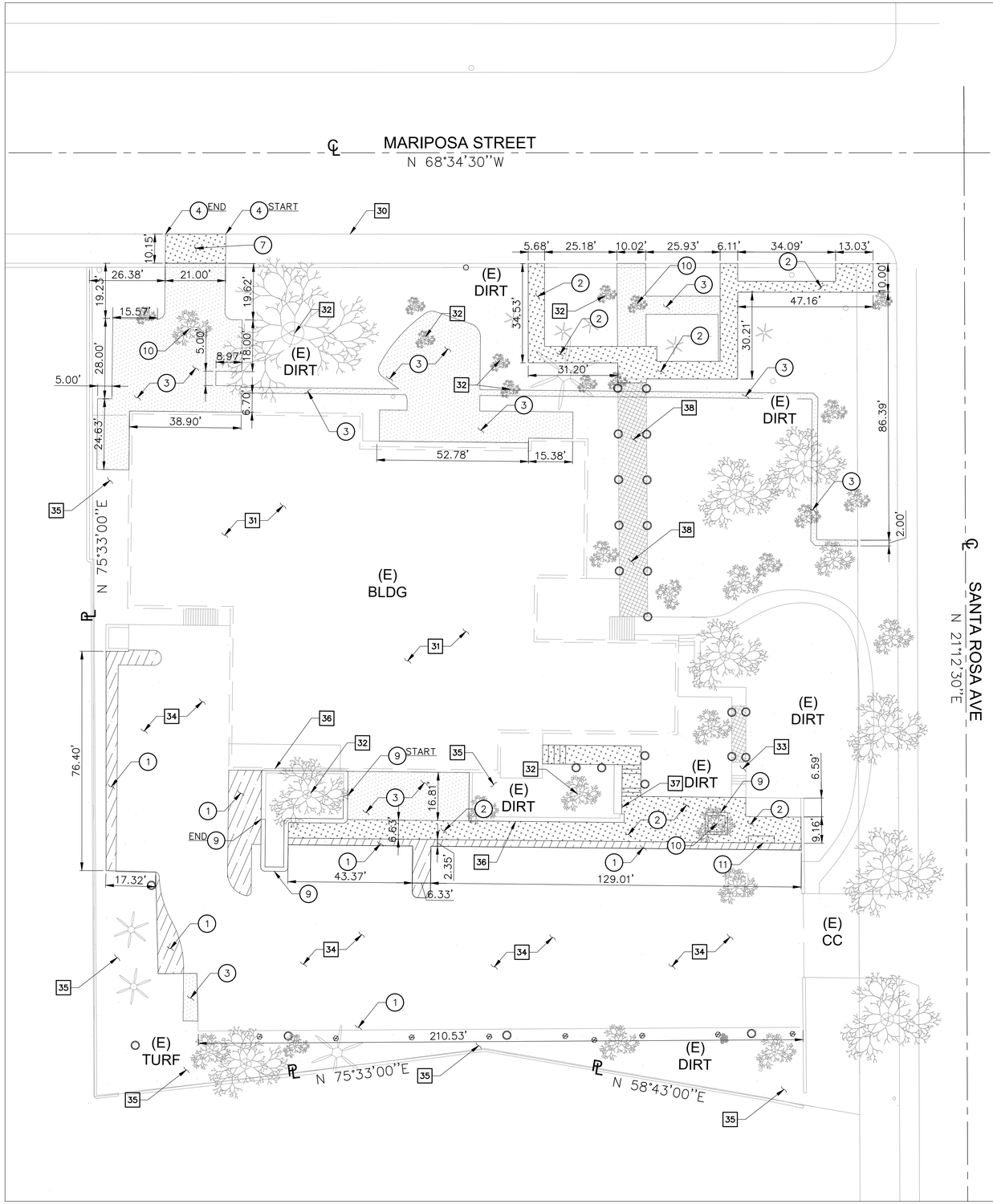
Drawn

Checked

Approved

TITLE
GENERAL NOTES, LEGENDS AND ABBREVIATIONS

SHEET NUMBER
C-1.0




## REMOVAL NOTES:

1. REMOVE EXISTING 3" THICK AC PAVEMENT AND BASE MATERIAL, FULL DEPTH.
2. REMOVE EXISTING 4" THICK CONCRETE PAVEMENT AND BASE MATERIAL, FULL DEPTH.
3. CLEAR, GRUB AND REMOVE EXISTING TURF/PLANTER/HEADER/EXPOSED SUBGRADE AREA. REMOVE EXISTING SHRUBS AND ROOTS.
4. REMOVE EXISTING CURB IN ITS ENTIRETY.
5. REMOVE EXISTING CONCRETE STAIR.
6. REMOVE EXISTING LIGHT POST.
7. REMOVE EXISTING CONCRETE SIDEWALK.
8. REMOVE EXISTING CMU WALL.
9. REMOVE EXISTING PLANTER WALL.
10. REMOVE EXISTING TREE.
11. REMOVE EXISTING CURB RAMP.

## PROTECT-IN-PLACE NOTES:

30. PROTECT IN PLACE EXISTING CONCRETE CURB.
31. PROTECT IN PLACE EXISTING BUILDING.
32. PROTECT IN PLACE EXISTING TREES, SHRUBS, SOD, ETC. COORDINATE WITH LANDSCAPE DRAWINGS.
33. PROTECT IN PLACE EXISTING CONCRETE PAVEMENT.
34. PROTECT IN PLACE EXISTING ASPHALT PAVEMENT.
35. PROTECT IN PLACE EXISTING PLANTER AREA.
36. PROTECT IN PLACE EXISTING CMU WALL.
37. PROTECT IN PLACE EXISTING PLANTER WALL.
38. PROTECT IN PLACE EXISTING WOODEN BRIDGE.

## REMOVAL LEGEND:

- REMOVE EXISTING 3" AC PAVEMENT AND BASE MATERIAL, FULL DEPTH.
- REMOVE EXISTING 4" CONCRETE PAVEMENT AND BASE MATERIAL, FULL DEPTH.
- CLEAR, GRUB AND REMOVE EXISTING TURF/PLANTER/SHRUBS/EXPOSED SUBGRADE AREA. REMOVE EXISTING SHRUBS AND ROOTS IN THEIR ENTIRETY.

## SHEET NOTES:

1. FOR GENERAL NOTES, LEGENDS AND ABBREVIATIONS, SEE SHEET C-1.0.
2. SEE ARCHITECTURAL DRAWINGS FOR OTHER SITE RELATED DIMENSIONS NOT SHOWN ON THIS DRAWING.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY AND SURFACE AND/OR UNDERGROUND UTILITIES IN CONFLICT WITH THE PROPOSED DEMOLITION AND DESIGN ITEMS. CONTRACTOR SHALL REPORT ANY DISCREPANCIES AND/OR CONSTRUCTION RELATED ISSUES TO THE OWNER OR DESIGN TEAM PRIOR TO THE COMMENCEMENT OF WORK.
4. CONTRACTOR TO VERIFY IN FIELD THE JOINING TO EXISTING ELEVATION AND THE CURRENT SITE CONDITION WITH THE DESIGN GRADES. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE OWNER OR DESIGN TEAM PRIOR TO THE COMMENCEMENT OF WORK.

## SITE DEMOLITION PLAN

20 10 0 20 40

SCALE: 1"=20

CONSULTANTS

VCA ENGINEERS INC
1041 S Garfield Avenue
Alhambra, CA 91801
Tel. 323.729.6058
Fax. 323.729.6043

REGISTERED PROFESSIONAL ENGINEER
PANTELIS C. KOMAS
No. C36079
Exp. 6/30/24
CIVIL
STATE OF CALIFORNIA

PROJECT

KEYPLAN

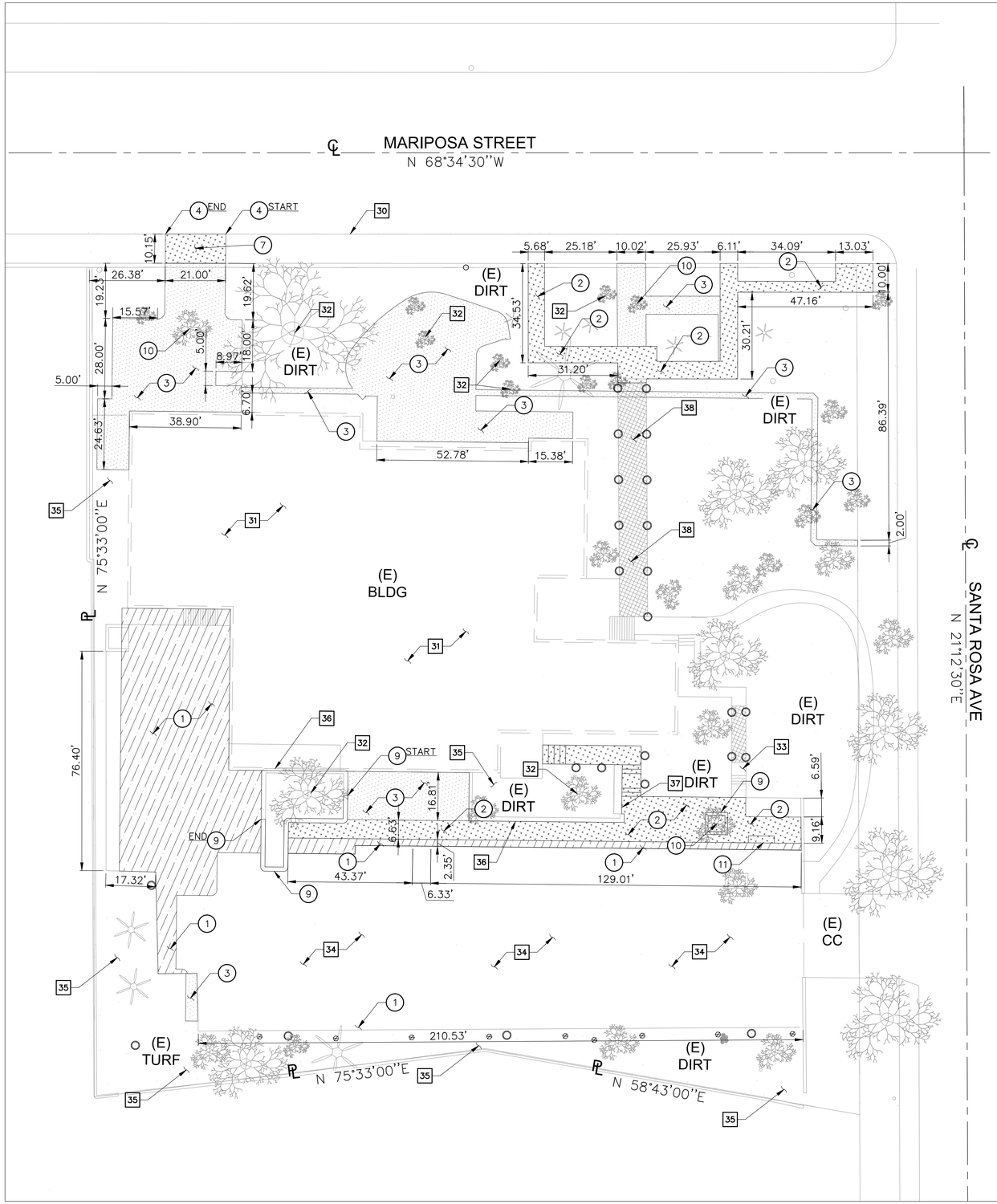
ISSUE CHART

| MARK | ISSUE | DATE |
|---|---|---|

Job Number
Drawn
Checked
Approved

TITLE
SITE DEMOLITION PLAN_BASE

SHEET NUMBER
CD-1.0




## REMOVAL NOTES:

1. REMOVE EXISTING 3" THICK AC PAVEMENT AND BASE MATERIAL, FULL DEPTH.
2. REMOVE EXISTING 4" THICK CONCRETE PAVEMENT AND BASE MATERIAL, FULL DEPTH.
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4. REMOVE EXISTING CURB IN ITS ENTIRETY.
5. REMOVE EXISTING CONCRETE STAIR.
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## REMOVAL LEGEND:

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- REMOVE EXISTING 4" CONCRETE PAVEMENT AND BASE MATERIAL, FULL DEPTH.
- CLEAR, GRUB AND REMOVE EXISTING TURF/PLANTER/SHRUBS/EXPOSED SUBGRADE AREA. REMOVE EXISTING SHRUBS AND ROOTS IN THEIR ENTIRETY.

## SHEET NOTES:

1. FOR GENERAL NOTES, LEGENDS AND ABBREVIATIONS, SEE SHEET C-1.0.
2. SEE ARCHITECTURAL DRAWINGS FOR OTHER SITE RELATED DIMENSIONS NOT SHOWN ON THIS DRAWING.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY AND SURFACE AND/OR UNDERGROUND UTILITIES IN CONFLICT WITH THE PROPOSED DEMOLITION AND DESIGN ITEMS. CONTRACTOR SHALL REPORT ANY DISCREPANCIES AND/OR CONSTRUCTION RELATED ISSUES TO THE OWNER OR DESIGN TEAM PRIOR TO THE COMMENCEMENT OF WORK.
4. CONTRACTOR TO VERIFY IN FIELD THE JOINING TO EXISTING ELEVATION AND THE CURRENT SITE CONDITION WITH THE DESIGN GRADES. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE OWNER OR DESIGN TEAM PRIOR TO THE COMMENCEMENT OF WORK.

## SITE DEMOLITION PLAN

20 10 0 20 40

SCALE: 1"=20

CONSULTANTS

VCA ENGINEERS INC
1041 S Garfield Avenue
Alhambra, CA 91801
Tel. 323.729.6058
Fax. 323.729.6043

REGISTERED PROFESSIONAL ENGINEER
PANTTIO C. KOKKAS
No. C36079
Exp. 6/30/24
CIVIL
STATE OF CALIFORNIA

PROJECT

KEYPLAN

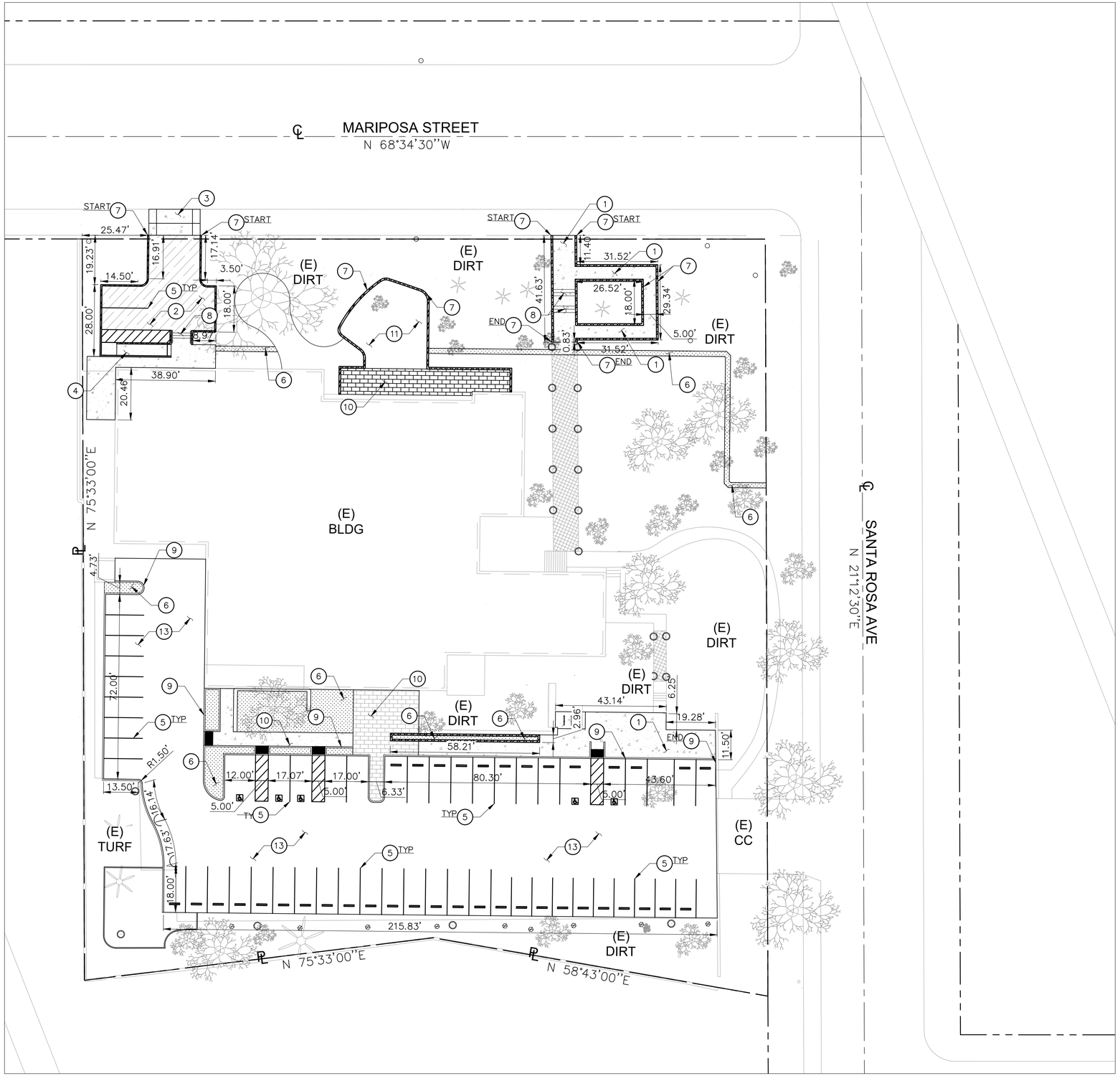
ISSUE CHART

| MARK | ISSUE | DATE |
|---|---|---|

Job Number
Drawn
Checked
Approved

TITLE
SITE DEMOLITION PLAN_ALTERNATIVE

SHEET NUMBER
CD-1.1




## CONSTRUCTION NOTES:

1. 4" THICK CONCRETE PAVEMENT OVER 4" BASE PER DETAIL 1 ON SHEET C-5.0.
2. 3" THICK ASPHALT PAVEMENT OVER 4" BASE PER DETAIL 5 ON SHEET C-5.0.
3. CONSTRUCT DRIVEWAY PER CITY OF LOS ANGELES STANDARD DRAWING S-440-4.
4. CONSTRUCT CONCRETE RAMP PER ARCHITECTURAL DRAWINGS.
5. NEW STRIPING PER ARCHITECTURAL DRAWINGS.
6. NEW PLANTER AREA PER LANDSCAPE DRAWINGS.
7. CONSTRUCT RETAINING WALL PER ARCHITECTURAL DRAWINGS.
8. CONSTRUCT CONCRETE STAIRS/HANDRAIL PER ARCHITECTURAL DRAWINGS.
9. CONSTRUCT CONCRETE CURB PER DETAIL 3 ON SHEET C-5.0.
10. CONSTRUCT CONCRETE PAVERS PER LANDSCAPE DRAWINGS.
11. INSTALL SYNTHETIC TURF PER LANDSCAPE DRAWINGS.
12. NEW WOODEN SURFACE PER LANDSCAPE DRAWINGS.
13. PROVIDE NEW SLURRY COAT FOR EXISTING ASPHALT PAVEMENT.

## LEGEND:

- NEW ASPHALT PAVEMENT
- NEW CONCRETE PAVEMENT
- NEW PLANTER AREA
- NEW WALL
- NEW BUILDING
- NEW STRIPING
- NEW WOODEN SURFACE
- NEW CONCRETE PAVER

## SHEET NOTES:

1. FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS, SEE SHEETS C-1.0.
2. REFER TO ARCHITECTURAL DRAWINGS FOR OTHER SITE DIMENSIONS AND IMPROVEMENTS NOT SHOWN ON THIS DRAWING.

## SITE CONTROL PLAN

20 10 0 20 40

SCALE: 1"=20

CONSULTANTS

VCA ENGINEERS INC
1001 S Garfield Avenue
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Tel. 323.729.6058
Fax. 323.729.6043

REGISTERED PROFESSIONAL ENGINEER
PANTITO C. ADAMS
No. C36079
Exp. 6/30/24
CIVIL
STATE OF CALIFORNIA

PROJECT

KEYPLAN

ISSUE CHART

| MARK | ISSUE | DATE |
|---|---|---|

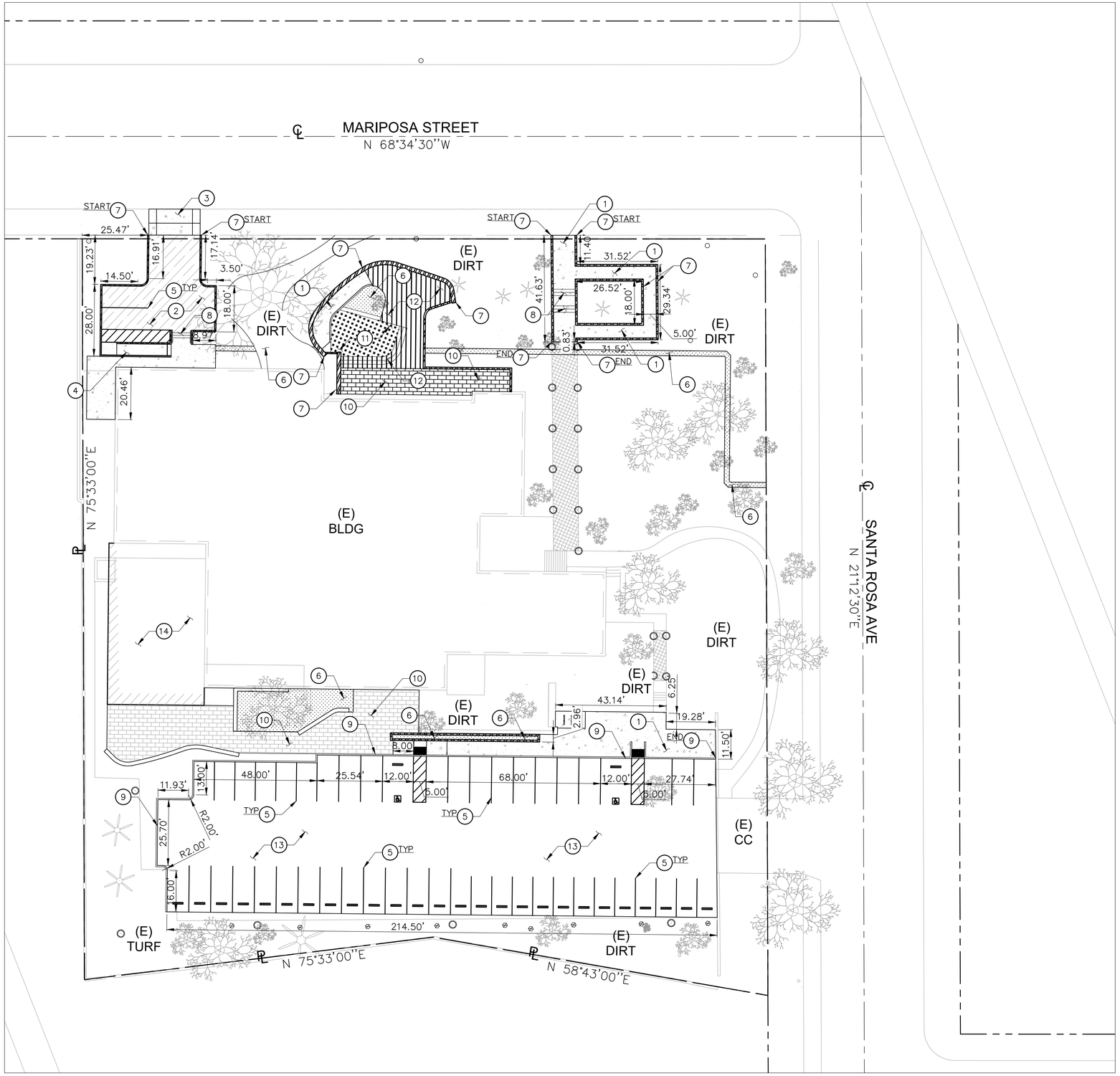
Job Number
Drawn
Checked
Approved

TITLE

SITE CONTROL PLAN_BASE

SHEET NUMBER

C-2.0




## CONSTRUCTION NOTES:

1. 4" THICK CONCRETE PAVEMENT OVER 4" BASE PER DETAIL 1 ON SHEET C-5.0.
2. 3" THICK ASPHALT PAVEMENT OVER 4" BASE PER DETAIL 5 ON SHEET C-5.0.
3. CONSTRUCT DRIVEWAY PER CITY OF LOS ANGELES STANDARD DRAWING S-440-4.
4. CONSTRUCT CONCRETE RAMP PER ARCHITECTURAL DRAWINGS.
5. NEW STRIPING PER ARCHITECTURAL DRAWINGS.
6. NEW PLANTER AREA PER LANDSCAPE DRAWINGS.
7. CONSTRUCT RETAINING WALL PER ARCHITECTURAL DRAWINGS.
8. CONSTRUCT CONCRETE STAIRS/HANDRAIL PER ARCHITECTURAL DRAWINGS.
9. CONSTRUCT CONCRETE CURB PER DETAIL 3 ON SHEET C-5.0.
10. CONSTRUCT CONCRETE PAVERS PER LANDSCAPE DRAWINGS.
11. INSTALL SYNTHETIC TURF PER LANDSCAPE DRAWINGS.
12. NEW WOODEN SURFACE PER LANDSCAPE DRAWINGS.
13. PROVIDE NEW SLURRY COAT FOR EXISTING ASPHALT PAVEMENT.
14. NEW COMMUNITY ROOM PER ARCHITECTURAL DRAWINGS.

## LEGEND:

- NEW ASPHALT PAVEMENT
- NEW CONCRETE PAVEMENT
- NEW PLANTER AREA
- NEW WALL
- NEW BUILDING
- NEW STRIPING
- NEW WOODEN SURFACE
- NEW CONCRETE PAVER

## SHEET NOTES:

1. FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS, SEE SHEETS C-1.0.
2. REFER TO ARCHITECTURAL DRAWINGS FOR OTHER SITE DIMENSIONS AND IMPROVEMENTS NOT SHOWN ON THIS DRAWING.

## SITE CONTROL PLAN

20 10 0 20 40

SCALE: 1"=20

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KEYPLAN

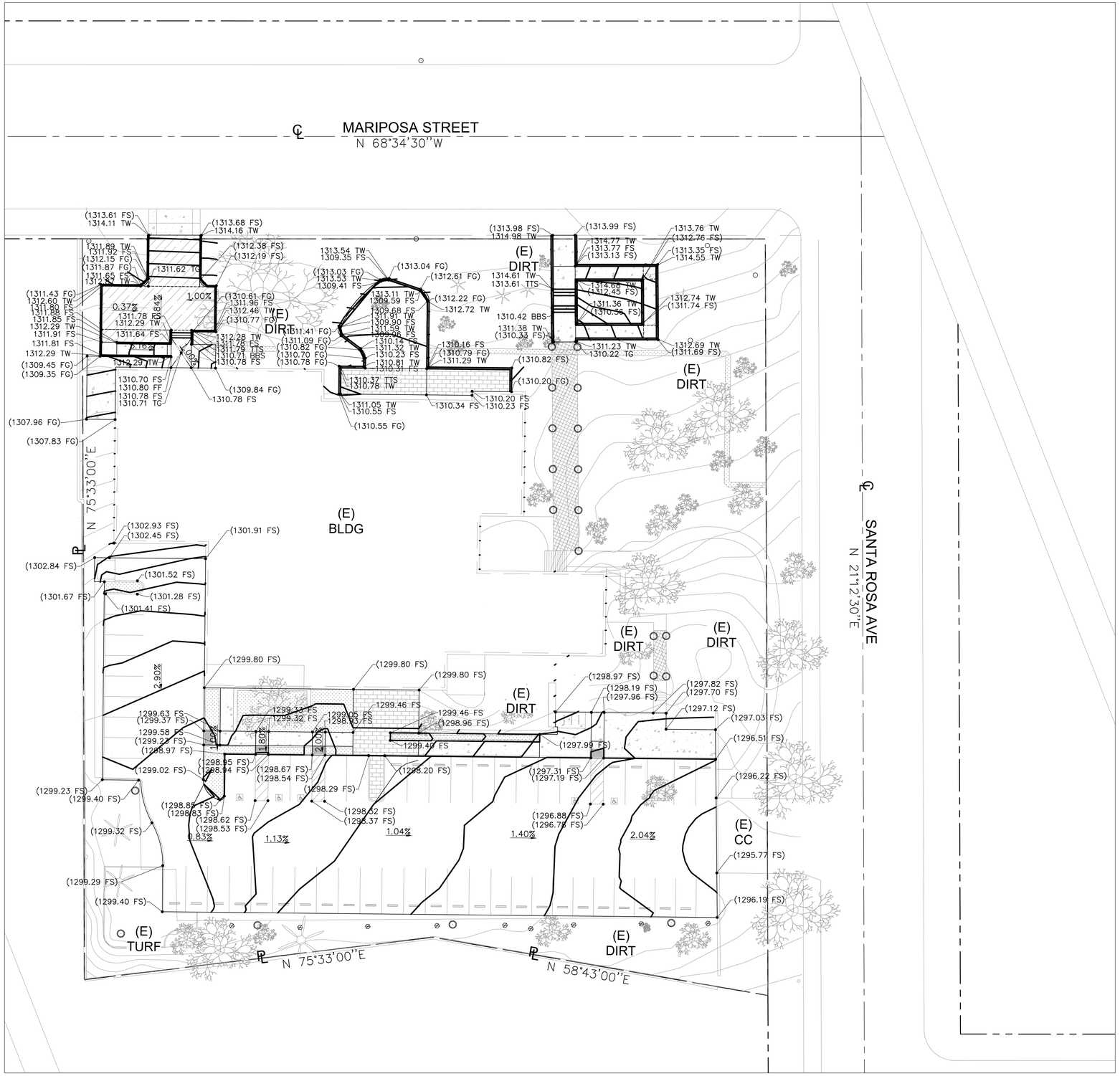
ISSUE CHART

| MARK | ISSUE | DATE |
|---|---|---|

Job Number
Drawn
Checked
Approved

TITLE
SITE CONTROL PLAN_ ALTERNATIVE

SHEET NUMBER
C-2.1




## ESTIMATED EARTHWORK QUANTITY

ESTIMATED CUT = 297 CY
ESTIMATED FILL = 139 CY
NET VOLUME = 158 CY (EXPORT)

## NOTES:

1. ESTIMATED EARTHWORK ABOVE IS BASED ON DESIGN FINISH GRADES TO EXISTING GRADES IN SURVEY. THE ESTIMATED EARTHWORK DOES NOT CONSIDER THE THICKNESS OF EACH PAVEMENT MATERIAL OR THE REMOVAL OF ANY UNSUITABLE MATERIAL.
2. THE ESTIMATED EARTHWORK QUANTITIES DO NOT INCLUDE SHRINKAGE FACTORS DUE TO COMPACTION.
3. THE CONTRACTOR SHALL CALCULATE HIS OWN EARTHWORK QUANTITIES NECESSARY FOR HIS BID AND WORK. VCA IS NOT RESPONSIBLE AND LIABLE FOR THE CONTRACTOR'S EARTHWORK CALCULATIONS.
4. ESTIMATED EARTHWORK QUANTITIES ABOVE ASSUME THAT ALL ON-SITE MATERIALS ARE SUITABLE FOR BACKFILLING. HOWEVER, ACTUAL EXISTING ON-SITE MATERIALS AND IMPORTED MATERIALS MUST FIRST BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO INSTALLATION, REMOVAL, OR REPLACEMENT.
5. CONTRACTOR SHALL REFER TO GEOTECHNICAL REPORT ALL OTHER REQUIREMENTS THAT MAY BE REQUIRED IN ORDER TO CALCULATE THE CUT AND FILL QUANTITIES.

## SHEET NOTES:

1. ALL GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE JURISDICTIONAL AGENCIES.
2. PROVIDE A HAUL ROUTE AS REQUIRED BY THE JURISDICTIONAL AGENCIES.
3. NO GRADING WORK SHALL BE PERFORMED AT ANY TIME WITHOUT AN EROSION CONTROL SYSTEM APPROVED BY ENGINEER. BETWEEN NOVEMBER 1 AND APRIL 15, ANY GRADING WORK SHALL BE PERFORMED WITH AN EROSION CONTROL SYSTEM APPROVED BY THE ENGINEER AND THE JURISDICTIONAL DISTRICT.
4. CONSTRUCT DESIGN GRADES SHOWN ON PLAN. CONSTRUCT STRAIGHT GRADES BETWEEN INDICATED ELEVATIONS UNLESS INTERRUPTED BY A GRADE CHANGE LINE. ANY DEVIATIONS FORM THE GRADING PLAN MUST HAVE PRIOR APPROVAL OF THE ARCHITECT.
5. CONTRACTOR SHALL RECOMPACT THE TOP 12" OF THE PAVING SUB GRADE TO 95% MAXIMUM RELATIVE DENSITY.
6. THE CONTRACTOR SHALL NOT BEGIN THE PAVING OPERATION UNTIL THE SUB GRADE HAS BEEN APPROVED BY THE DISTRICT RETAINED GEOTECHNICAL ENGINEER AND IOR.
7. THE CONTRACTOR IS ADVISED THAT THE APPROVAL OF THIS PLAN DOES NOT WAIVE THE REQUIREMENTS FOR EXCAVATIONS CONTAINED IN THE STATE CONSTRUCTION SAFETY ORDERS ENFORCED BY THE STATE DIVISION OF INDUSTRIAL SAFETY.
8. NO FILL TO BE PLACED, UNTIL THE GEOTECHNICAL ENGINEER OR IOR HAS INSPECTED AND APPROVED THE BOTTOM OF EXCAVATION.
9. ALL FILL OR BACK FILL SHALL BE COMPACTED BY MECHANICAL MEANS TO A MINIMUM 95% RELATIVE COMPACTION AS DETERMINED BY THE ASTM D-1557. ALL FILL INSTALLATION SHALL REQUIRE CERTIFICATION BY THE GEOTECHNICAL ENGINEER PRIOR TO FOUNDATION INSTALLATION.

SITE GRADING PLAN

20 10 0 20 40

SCALE: 1"=20

CONSULTANTS

VCA ENGINEERS INC
1001 E Garfield Avenue
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REGISTERED PROFESSIONAL ENGINEER
PERFECTO C. ADRIANO
No. C36079
Exp. 6/30/24
CIVIL
STATE OF CALIFORNIA

PROJECT

KEYPLAN

ISSUE CHART

| MARK | ISSUE | DATE |
|---|---|---|

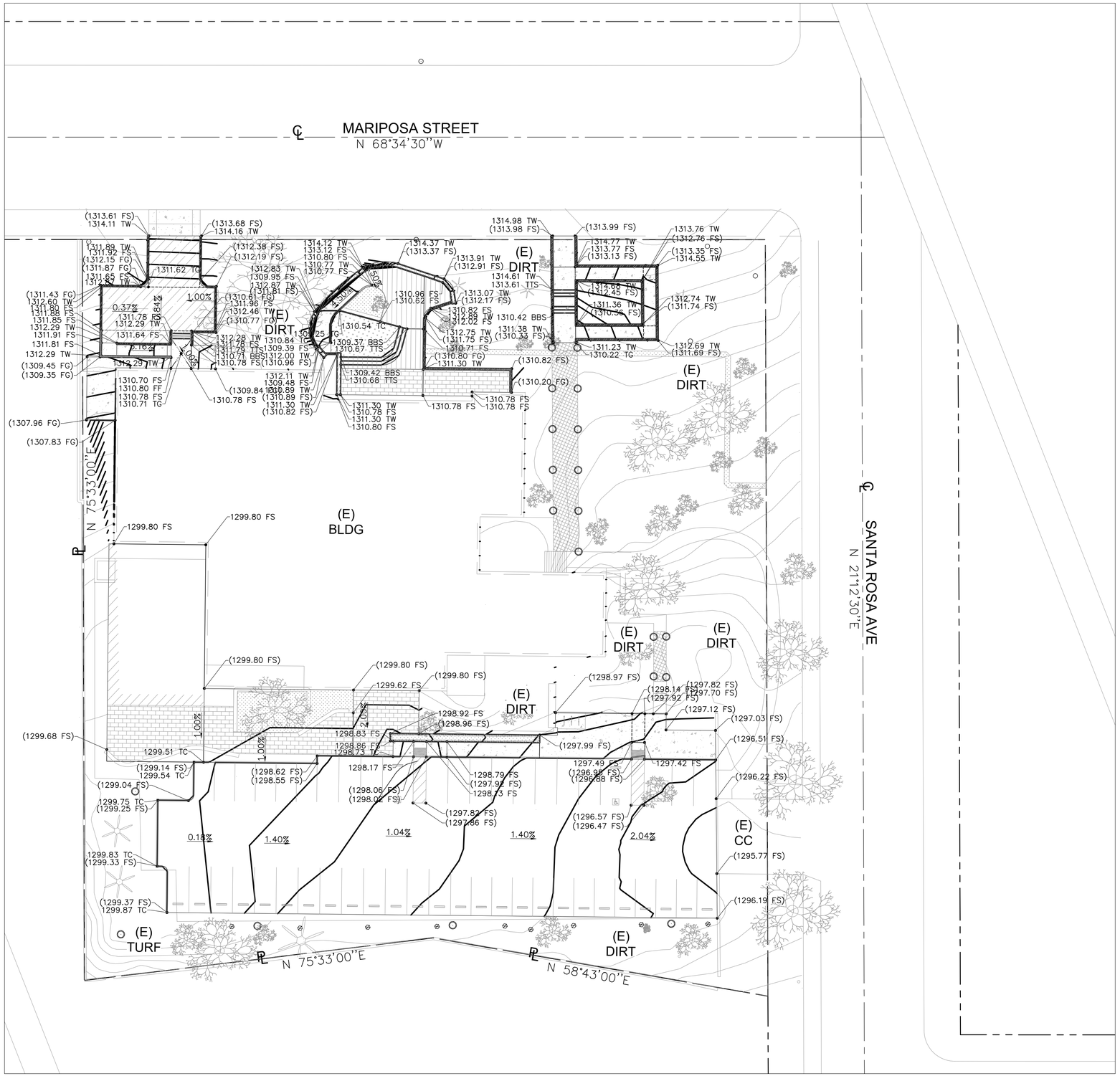
Job Number
Drawn
Checked
Approved

TITLE

SITE GRADING PLAN_BASE

SHEET NUMBER

C-3.0




## ESTIMATED EARTHWORK QUANTITY

| | | |
|---|---|---|
| ESTIMATED CUT | = | 297 CY |
| ESTIMATED FILL | = | 139 CY |
| NET VOLUME | = | 158 CY (EXPORT) |

## NOTES:

1. ESTIMATED EARTHWORK ABOVE IS BASED ON DESIGN FINISH GRADES TO EXISTING GRADES IN SURVEY. THE ESTIMATED EARTHWORK DOES NOT CONSIDER THE THICKNESS OF EACH PAVEMENT MATERIAL OR THE REMOVAL OF ANY UNSUITABLE MATERIAL.
2. THE ESTIMATED EARTHWORK QUANTITIES DO NOT INCLUDE SHRINKAGE FACTORS DUE TO COMPACTION.
3. THE CONTRACTOR SHALL CALCULATE HIS OWN EARTHWORK QUANTITIES NECESSARY FOR HIS BID AND WORK. VCA IS NOT RESPONSIBLE AND LIABLE FOR THE CONTRACTOR'S EARTHWORK CALCULATIONS.
4. ESTIMATED EARTHWORK QUANTITIES ABOVE ASSUME THAT ALL ON-SITE MATERIALS ARE SUITABLE FOR BACKFILLING. HOWEVER, ACTUAL EXISTING ON-SITE MATERIALS AND IMPORTED MATERIALS MUST FIRST BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO INSTALLATION, REMOVAL, OR REPLACEMENT.
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6. THE CONTRACTOR SHALL NOT BEGIN THE PAVING OPERATION UNTIL THE SUB GRADE HAS BEEN APPROVED BY THE DISTRICT RETAINED GEOTECHNICAL ENGINEER AND IOR.
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8. NO FILL TO BE PLACED, UNTIL THE GEOTECHNICAL ENGINEER OR IOR HAS INSPECTED AND APPROVED THE BOTTOM OF EXCAVATION.
9. ALL FILL OR BACK FILL SHALL BE COMPACTED BY MECHANICAL MEANS TO A MINIMUM 95% RELATIVE COMPACTION AS DETERMINED BY THE ASTM D-1557. ALL FILL INSTALLATION SHALL REQUIRE CERTIFICATION BY THE GEOTECHNICAL ENGINEER PRIOR TO FOUNDATION INSTALLATION.

SITE GRADING PLAN

20 10 0 20 40

SCALE: 1"=20

CONSULTANTS

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REGISTERED PROFESSIONAL ENGINEER
PERFECTO C. ADRIAN
No. C36079
Exp. 6/30/24
CIVIL
STATE OF CALIFORNIA

PROJECT

KEYPLAN

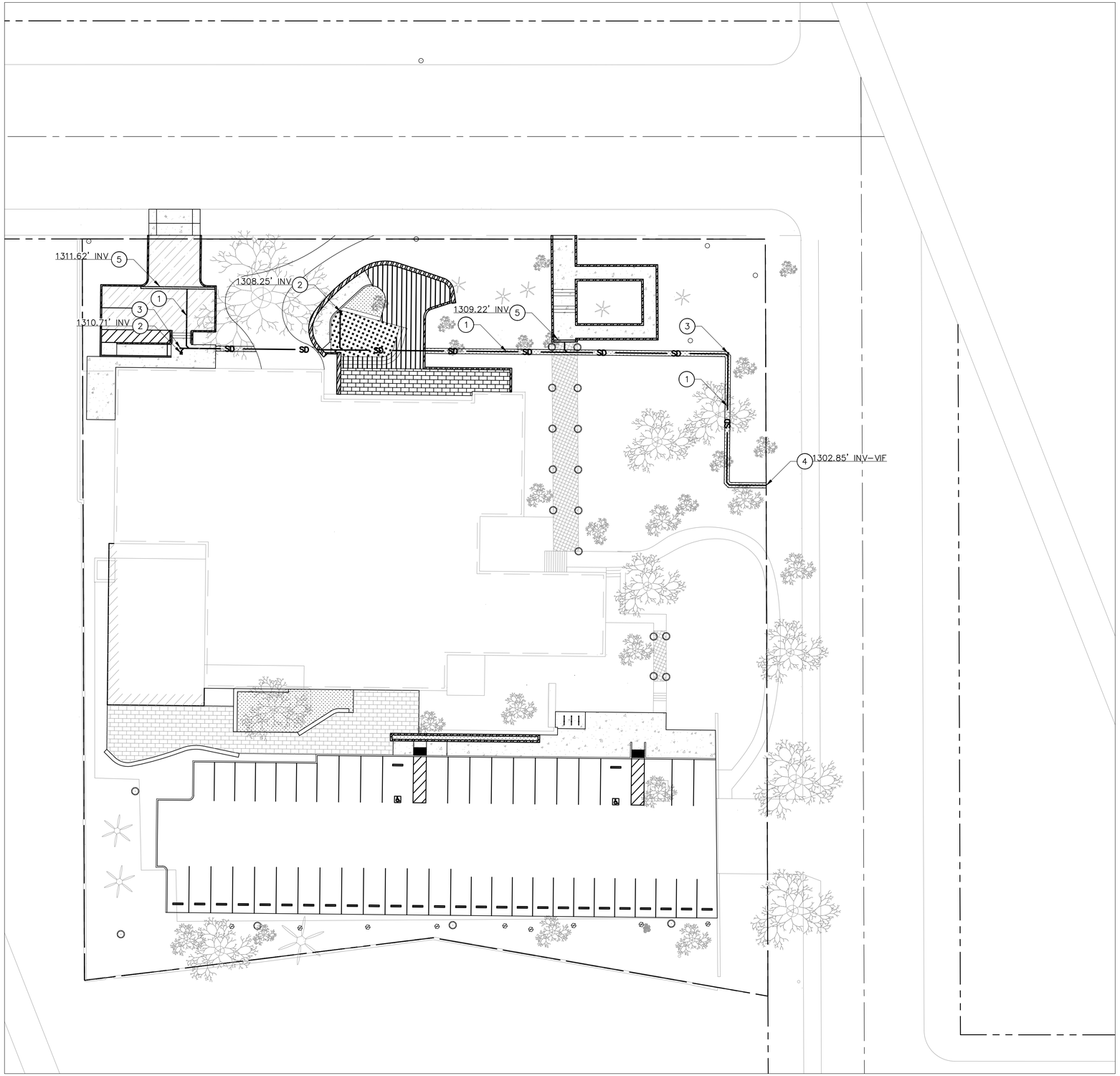
ISSUE CHART

| MARK | ISSUE | DATE |
|---|---|---|

Job Number
Drawn
Checked
Approved

TITLE
SITE GRADING PLAN_ALTERNATIVE

SHEET NUMBER
C-3.1




## CONSTRUCTION NOTES:
## STORM DRAINAGE:

1. INSTALL 6"ø SCH 80 STORM DRAIN PIPE, BEDDING PER DETAIL 4 ON SHEET C-5.0.
2. CONSTRUCT 12"X12" CATCH BASIN PER DETAIL 1 ON SHEET C-5.0. INSTALL FILTER INSERT PER DETAIL 2 ON SHEET C-5.0.
3. INSTALL CLEAN OUT PER DETAIL 3 SHEET C-5.0.
4. CONNECT TO EXISTING STORM DRAIN LINE.
5. INSTALL TRENCH DRAIN PER DETAIL 4 ON SHEET C-5.0.

## SHEET NOTES:

1. FOR GENERAL NOTES, LEGENDS AND ABBREVIATIONS, SEE SHEET C-1.0.
2. SEE ARCHITECTURAL DRAWINGS FOR OTHER SITE RELATED DIMENSIONS NOT SHOWN ON THIS DRAWING.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL SURFACE AND/OR UNDERGROUND UTILITIES IN CONFLICT WITH THE PROPOSED DEMOLITION AND DESIGN ITEMS. CONTRACTOR SHALL REPORT ANY DISCREPANCIES AND/OR CONSTRUCTION RELATED ISSUES TO THE OWNER OR DESIGN TEAM PRIOR TO THE COMMENCEMENT OF WORK.
4. CONTRACTOR TO VERIFY IN FIELD THE JOINING TO EXISTING ELEVATION AND THE CURRENT SITE CONDITION WITH THE DESIGN GRADES. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO THE COMMENCEMENT OF WORK.

SITE UTILITY PLAN

20 10 0 20 40

SCALE: 1"=20

CONSULTANTS

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CIVIL ENGINEERS
1041 S Garfield Avenue
Alhambra, CA 91801
Tel. 323.729.6058
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REGISTERED PROFESSIONAL ENGINEER
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No. C36079
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CIVIL
STATE OF CALIFORNIA

PROJECT

KEYPLAN

ISSUE CHART

| MARK | ISSUE | DATE |
|---|---|---|

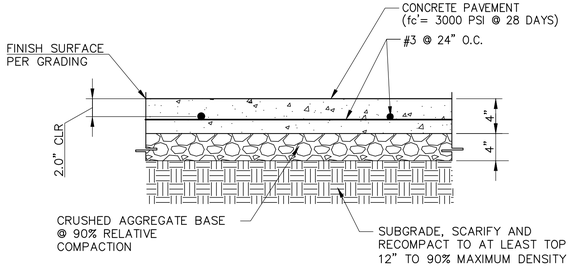
Job Number
Drawn
Checked
Approved

TITLE

SITE UTILITY PLAN

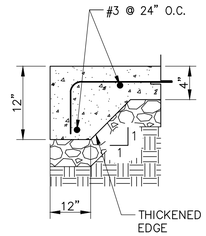
SHEET NUMBER

C-4.0




| LOCATION | CONCRETE PAVEMENT THICKNESS "A" | CRUSHED AGGREGATE BASE THICKNESS "B" |
|---|---|---|
| NON TRAFFIC | 4" | 4" |

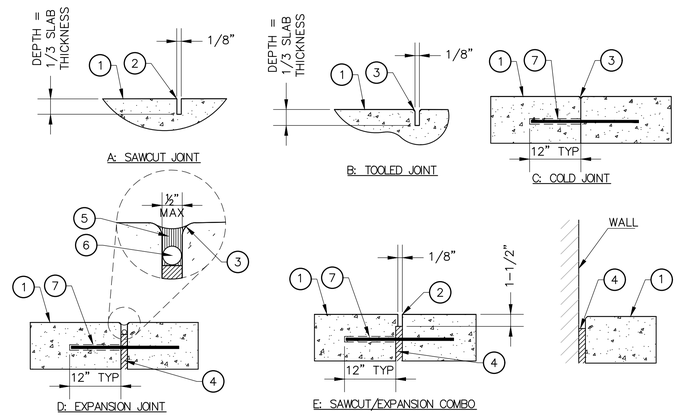
1 CONCRETE PAVEMENT DETAIL
NOT TO SCALE




## EDGE OF RIGID PAVEMENT

## NOTES:

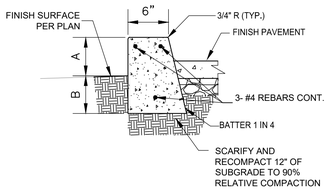
1. FOR CONSTRUCTION JOINTS, EXPANSION JOINTS, AND FINISH SURFACE REQUIREMENTS REFER TO DETAIL 3 ON THIS SHEET.
2. CONCRETE, fc'=4000 PSI @ 28 DAYS. REBARS, fy=60,000 PSI PER ASTM A615.
3. CONCRETE FINISHES TO BE EQUIVALENT TO MEDIUM SALTED FINISH FOR SLOPES OF LESS THAN 6%, AND SLIP RESISTANT FOR SLOPES 6% OR GREATER.
4. CONCRETE PAVEMENT SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF ALL FIRE APPARATUS & SHALL BE SURFACED SO AS TO PROVIDE ALL–WEATHER DRIVING CAPABILITIES FOR FIRE LANE.
5. REFER TO LANDSCAPE DRAWINGS FOR INTEGRAL COLOR AND FINISH.




## LEGEND:

1. PAVING FINISH SURFACE.
2. SAWCUT.
3. 1/4" R. @ EDGES. TYP.
4. PREMOLDED E.J. FILLER.
5. JOINT SEALANT. COLOR TO BE SELECTED BY ARCHITECT. SUBMIT COLOR SAMPLES PRIOR TO INSTALLATION.
6. BACKER ROD.
7. 18" #3 REBAR W/ 'SPEED DOWEL' @ 18" OC, CENTER IN CONC. AT COLD JOINTS & E.J.'S.
8. CONTROL JOINTS 20'–0" O.C. MAX.
9. CONTRACTOR TO SUBMIT SHOP DRAWINGS OF CONTROL JOINT AND EXPANSION JOIN LAYOUT.

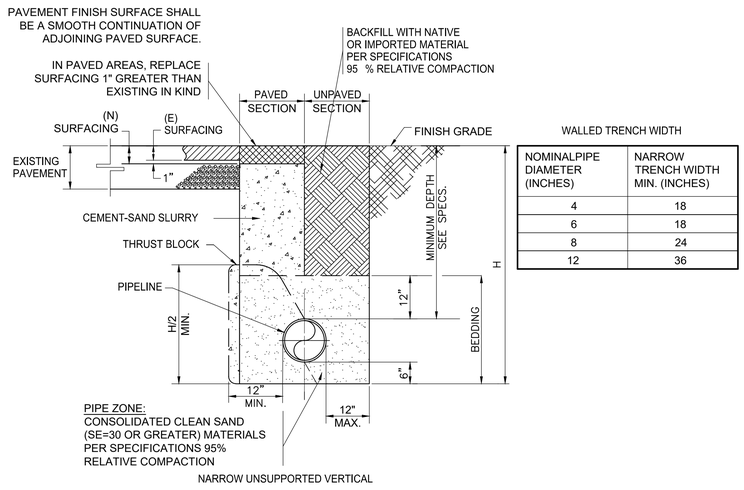
2 JOINT DETAILS
NOT TO SCALE




## NOTES:

1. WHEN "A" IS 6" OR LESS, B=6".
2. WHEN "A" IS GREATER THAN 6" AND LESS THAN OR EQUAL TO 12", A=B.
3. WHEN "A" IS GREATER THAN 12" AND LESS THAN OR EQUAL TO 18", B=18".
4. WHEN THE SUM OF "A" PLUS "B" IS 18" OR GREATER, PLYWOOD FORM IS REQUIRED.
5. PROVIDE EXPANSION JOINTS AT 30'-0" O.C. MAX.
6. TERMINATE REBARS 1/2" FROM EXPANSION JOINT.

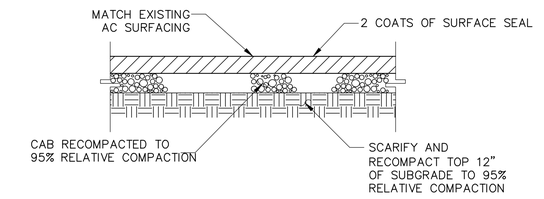
3 CONCRETE CURB DETAIL
NOT TO SCALE




WALLED TRENCH WIDTH

| NOMINALPIPE DIAMETER (INCHES) | NARROW TRENCH WIDTH MIN. (INCHES) |
|---|---|
| 4 | 18 |
| 6 | 18 |
| 8 | 24 |
| 12 | 36 |

4 UTILITY TRENCH DETAIL
NOT TO SCALE




| LOCATION | ASPHALT CONCRETE | BASE COURSE | |
|---|---|---|---|
| | THICKNESS | THICKNESS | TYPE |
| PARKING | 3" | 4" | CLASS 2 AGGREGATE BASE |

## NOTES:

1. ASPHALT PAVEMENT SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF ALL FIRE APPARATUS & SHALL BE SURFACED SO AS TO PROVIDE ALL–WEATHER DRIVING CAPABILITIES FOR FIRE LANE.

5 ASPHALT PAVEMENT DETAIL
NOT TO SCALE

CONSULTANTS

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REGISTERED PROFESSIONAL ENGINEER
PANTITO C. JOHN
No. C36079
Exp. 6/30/24
CIVIL
STATE OF CALIFORNIA

PROJECT

KEYPLAN

ISSUE CHART

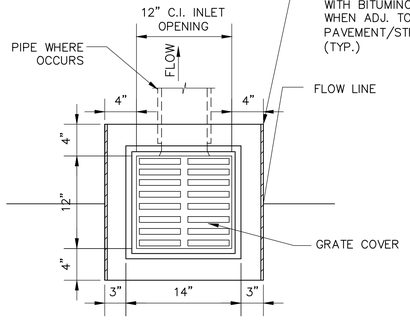
| MARK | ISSUE | DATE |
|---|---|---|
| Job Number | | |
| Drawn | | |
| Checked | | |
| Approved | | |

TITLE

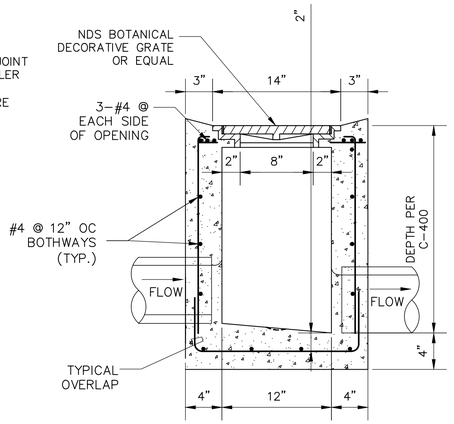
MISCELLANEOUS DETAILS

SHEET NUMBER

C-5.0




PLAN




SECTION

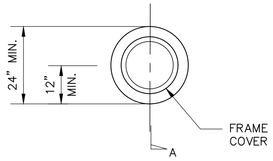
## NOTES:

1. USE 3/4" DIA. PIPE BAR SPACERS ASSEMBLED ON (2) 1/2" DIA. RODS WITH THREADS AND NUTS AT BOTH ENDS.
2. ALL METAL PARTS SHALL BE GALVANIZED AFTER FABRICATION AND WELDING, AND
3. BEFORE ASSEMBLING.

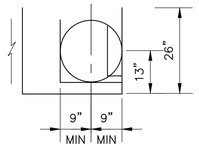
   FRAME AND GRATE SHALL BE SIMILAR TO ALHAMBRA FOUNDRY CO. LTD. SERIES
4. MODEL NO. 1581 OR BROOKS PRODUCTS, INC. OR APPROVED EQUAL.
5. CONCRETE, FC'=3,000 PSI @ 28 DAYS PER SSPWC.
6. CATCH BASIN ALTERNATE CAN BE PREFABRICATED AVAILABLE ON THE MARKET.

   PROVIDE LABEL WITH "NO DUMPING DRAINS TO OCEAN" AT ALL DRAINAGE INLETS PER DETAIL 3 ON SHEET C–503.

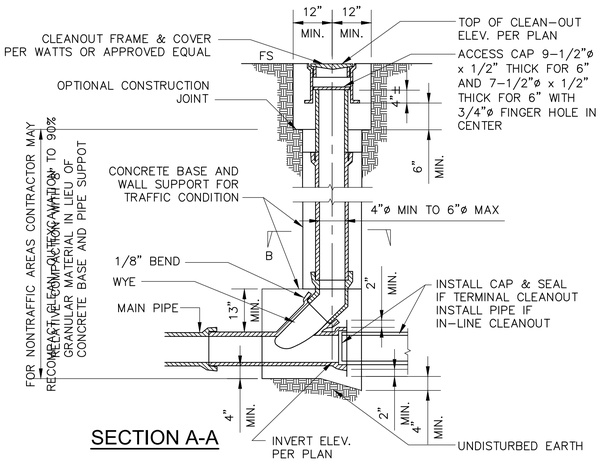
## 1 12"X12" CATCH BASIN DETAIL
NOT TO SCALE




PLAN




SECTION B-B




SECTION A-A

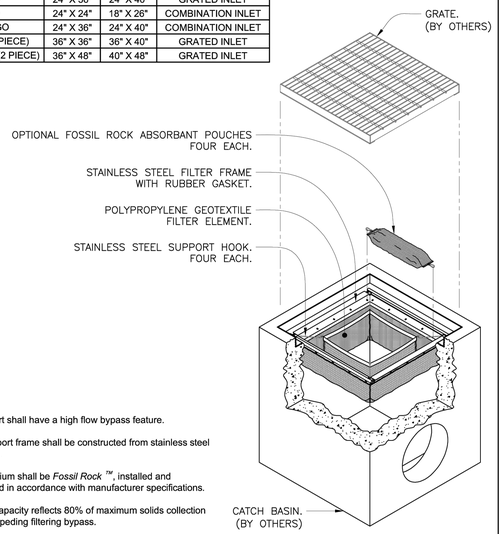
## NOTES:

1. FOR STORM DRAINAGE CLEAN OUT COVER, PROVIDE COVER WITH INSCRIPTION "D" TO DENOTE STORM DRAINAGE.

## 3 CLEANOUT DETAIL
NOT TO SCALE

| SPECIFIER CHART | | | |
|---|---|---|---|
| MODEL | INLET ID | GRATE OD | COMMENTS |
| FF-12D | 12" X 12" | 15" X 15" | GRATED INLET |
| FF-16D | 16" X 16" | 18" X 18" | GRATED INLET |
| FF-18D | 18" X 18" | 20" X 20" | GRATED INLET |
| FF-1836SD | 18" X 36" | 18" X 40" | GRATED INLET |
| FF-1836DGO | 18" X 36" | 18" X 40" | COMBINATION INLET |
| FF-24D | 24" X 24" | 26" X 26" | GRATED INLET |
| FF-2436SD | 24" X 36" | 24" X 40" | GRATED INLET |
| FF-24DGO | 24" X 24" | 18" X 26" | COMBINATION INLET |
| FF-2436DGO | 24" X 36" | 24" X 40" | COMBINATION INLET |
| FF-36D (2 PIECE) | 36" X 36" | 36" X 40" | GRATED INLET |
| FF-3648D (2 PIECE) | 36" X 48" | 40" X 48" | GRATED INLET |

FG-0001




NOTES:

1. Filter insert shall have a high flow bypass feature.
2. Filter support frame shall be constructed from stainless steel Type 304.
3. Filter medium shall be *Fossil Rock ™*, installed and maintained in accordance with manufacturer specifications.
4. Storage capacity reflects 80% of maximum solids collection prior to impeding filtering bypass.

Inlet Filtration

***FloGard®***

*Catch Basin Insert Filter*

*Grated Inlet Style*

**Oldcastle®** Stormwater Solutions

7921 Southpark Plaza, Suite 200 | Littleton, CO | 80120 | Ph: 800.579.8819 | oldcastlestormwater.com

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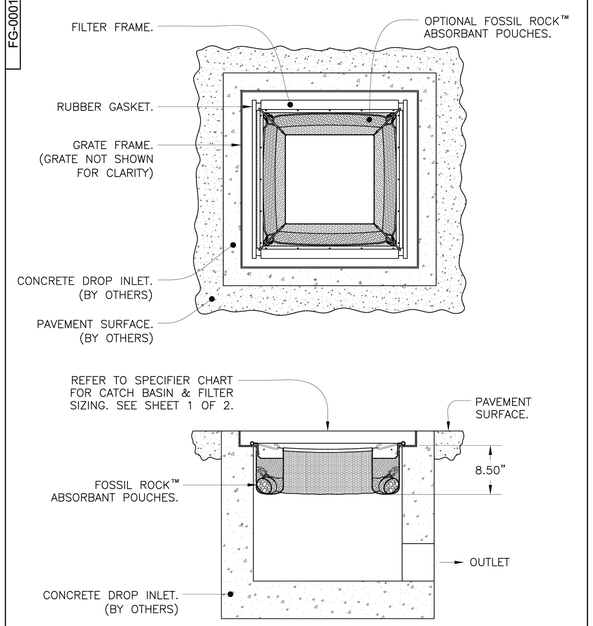
| DRAWING NO. | REV. | ECO | DATE | |
|---|---|---|---|---|
| FG-0001 | E | ECO–0142 JPR 7/13/16 | JPR 12/18/06 | SHEET 1 OF 2 |

FG-0001




SECTION VIEW

Inlet Filtration

***FloGard®***

*Catch Basin Insert Filter*

*Grated Inlet Style*

**Oldcastle®** Stormwater Solutions

7921 Southpark Plaza, Suite 200 | Littleton, CO | 80120 | Ph: 800.579.8819 | oldcastlestormwater.com

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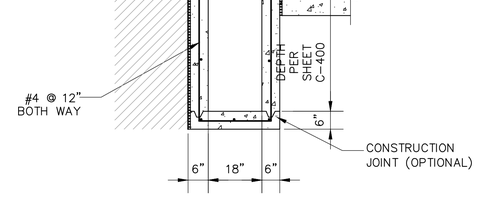
| DRAWING NO. | REV. | ECO | DATE | |
|---|---|---|---|---|
| FG-0001 | E | ECO–0142 JPR 7/13/16 | JPR 12/18/06 | SHEET 2 OF 2 |

## 2 CATCH BASIN FILTER INSERT DETAIL
NOT TO SCALE




## NOTES:

1. THE SLOPE IN THE TRENCH DRAIN SHALL BE 1% MINIMUM
2. FOR THE ELEVATION OF THE CONCRETE SEE DRAWING.
3. FOR LOCATION OF DISCHARGE PIPE, SEE DRAWING.
4. GRATE SHALL BE A.D.A. COMPLIANT, HEEL PROOF, AND VANDAL RESISTANT
5. INSTALL TRENCH DRAIN FILTER.

## 4 TRENCH DRAIN DETAIL
NOT TO SCALE

CONSULTANTS

VCA ENGINEERS, INC.
1041 S Garfield Avenue
Alhambra, CA 91801
Tel. 323.729.6058
Fax. 323.729.6043

REGISTERED PROFESSIONAL ENGINEER — PHILLIP C. KOHN — No. C36079 — Exp. 6/30/24 — CIVIL — STATE OF CALIFORNIA

PROJECT

KEYPLAN

ISSUE CHART

| MARK | ISSUE | DATE |
|---|---|---|

Job Number

Drawn

Checked

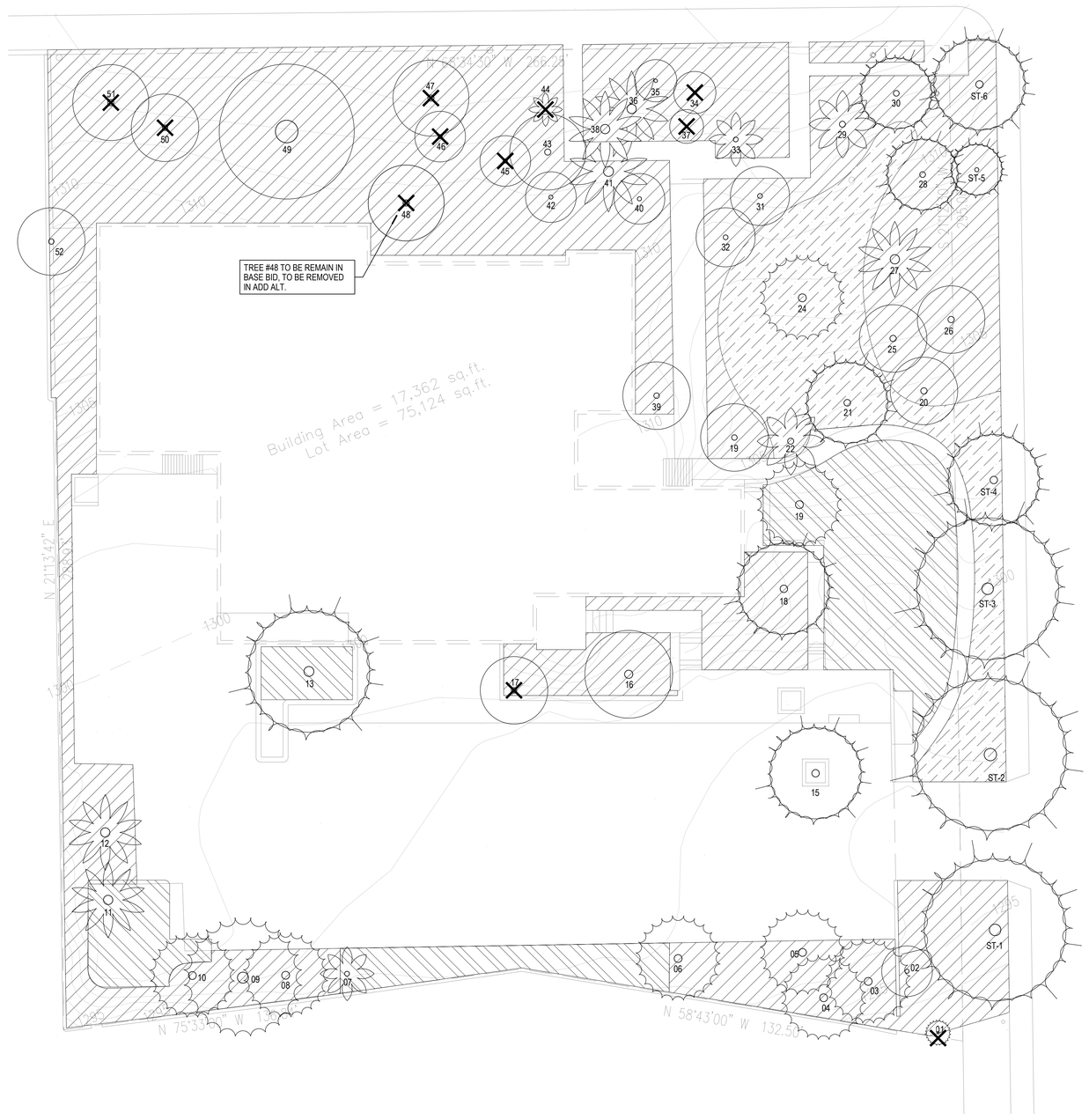
Approved

TITLE

MISCELLANEOUS DETAILS

SHEET NUMBER

C-5.1




## TREE LEGEND

| SYMBOL | DESCRIPTION | QTY. |
|---|---|---|
| X # | EXISTING TREE TO BE REMOVED, GRIND STUMP. | 11 |
| ○ # | ALL TREES NOT INDICATED TO BE REMOVED SHALL BE PROTECTED IN PLACE. PROVIDE TREE PROTECTION PER NOTES BELOW. | 46 |

REFER TO SHEET L003 FOR ARBORIST REPORT

## TREE PROTECTION NOTES

1. EXISTING TREES SHALL BE IDENTIFIED AND PRESERVED WITH PROTECTIVE FENCING TO FORM A PROTECTED ROOT ZONE (PRZ). TO CALCULATE THE PRZ, MEASURE THE TREE'S DIAMETER (DBH) 4.5 FEET ABOVE THE GROUND IN INCHES. FOR EACH INCH, PROVIDE ONE FOOT OF PROTECTED AREA FROM THE OUTSIDE FACE OF THE TRUNK. FOR EXAMPLE IF A TREE'S DBH IS TEN INCHES, ITS PROTECTED ROOT ZONE EXTENDS 10' FROM THE FACE OF TRUNK AROUND THE TREE, WITH A DIAMETER OF 20'-10". SEE ARBORIST REPORT FOR DBH OF EXISTING TREES.
2. PROTECTIVE FENCING SHALL BE INSTALLED PRIOR TO ANY EARTHWORK AND UNTIL WORK IS COMPLETE. FENCING SHALL BE SIX FEET IN HEIGHT AND INSTALLED AT THE OUTER MOST EDGE OF THE CANOPY OR PROTECTED ROOT ZONE (PRZ). THE TEMPORARY FENCING SHALL BE CHAIN LINK FENCING OR OTHER APPROVED DURABLE MATERIAL. POST "TREE PROTECTION ZONE – KEEP OUT" SIGNS ON THE PRZ FENCING.
3. NO CONSTRUCTION OR STAGING EQUIPMENT IS ALLOWED WITHIN THE PROTECTED ROOT ZONE INCLUDING HEAVY EQUIPMENT THAT WILL COMPACT AND DAMAGE THE ROOTS.
4. NO DISPOSAL OF CONSTRUCTION MATERIALS OR BY PRODUCTS INCLUDING PAINT, PLASTER OR CHEMICAL SOLUTIONS IS ALLOWED WITHIN THE PROTECTED ROOT ZONE.
5. NATURAL OR PRECONSTRUCTION GRADE SHALL BE MAINTAINED WITHIN THE TREE PROTECTION ZONE. AT NO TIME SHALL SOIL BE IN CONTACT WITH THE TREE TRUNK ABOVE THE ROOT FLARE.
6. THE PROTECTION ZONE SHOULD BE IRRIGATED SUFFICIENTLY WITH CLEAN POTABLE WATER TO KEEP THE TREE IN GOOD HEALTH AND VIGOR BEFORE DURING AND AFTER CONSTRUCTION. DEEP WATERING MAY BE NECESSARY ON A WEEKLY BASIS. VERIFY DEPTH OF IRRIGATION TO ROOTS.
7. APPLY A 4"-6" LAYER OF MULCH IN THE PRZ, 1 FOOT AWAY FROM THE TRUNK, BEFORE CONSTRUCTION BEGINS.
8. ANY WORK REQUIRED TO BE CONDUCTED IN THE GROUND WITHIN THE PRZ SHALL BE ACCOMPLISHED WITH AN AIR SPADE TO MAKE ROOTS VISIBLE AND USE OF HAND TOOLS.
9. PRUNING FOR CLEARANCE, IF NEEDED, SHALL BE DONE TO PREVENT DAMAGING BRANCHES WITH LARGE EQUIPMENT. ALL PRUNING SHALL BE IN ACCORDANCE WITH INDUSTRY STANDARDS, (INTERNATIONAL SOCIETY OF ARBORICULTURE OR ANSI A300), UNDER THE DIRECTION OF A CERTIFIED ARBORIST.
10. A CERTIFIED ARBORIST SHALL BE PRESENT IF MORE THAN 33% OF THE ROOT ZONE IS IMPACTED OR ROOTS GREATER THAN 2" OR WITHIN 5' OF THE TRUNK WILL BE CUT, TO ENSURE TREE STABILITY AND HEALTH. CUTS SHOULD BE CLEAN AND MADE AT RIGHT ANGLES TO THE ROOTS. CUT ROOTS BACK TO A BRANCHING LATERAL.
11. PRUNING CUTS OR DAMAGED BARK SHALL BE CUT CLEAN TO HEAL. DO NOT USE TREE SEAL OR PAINT.
12. TRENCHES FOR PIPING OR UTILITIES SHALL NOT BE CONSTRUCTED WITH THE TREE PROTECTION ZONES BUT SHALL BE RE-ROUTED OR BORED UNDER TREES AT A MINIMUM OF 36" DEEP.
13. PROTECT SOIL AND ROOTS FROM COMPACTION IN LANDSCAPE AREAS USED FOR DRIVEWAYS, STORAGE OR PARKING WITH A LAYER OF GEOTEXTILE FABRIC AND 6" OF CRUSHED GRAVEL.
14. UPON COMPLETION OF THE PROJECT, A CERTIFIED ARBORIST SHALL PREPARE A REPORT DESCRIBING ALL WORK UNDERTAKEN THAT MAY IMPACT EXISTING TREES, WITH SPECIAL ATTENTION GIVEN TO GRADE CHANGE, COMPACTION, DRAINAGE, PRUNING, AND ONGOING REMEDIAL CARE RECOMMENDATIONS.

## LANDSCAPE DEMOLITION LEGEND

| SYM. | DESCRIPTION |
|---|---|
| | EXISTING LANDSCAPE AREA TO REMAIN, PROTECT IN PLACE. MAINTAIN IRRIGATION DURING CONSTRUCTION THROUGH TEMPORARY ABOVE GROUND SYSTEM OR HAND WATERING. (APPROX 5,377 SF) |
| | EXISTING SHRUB AREA TO BE DEMOLISHED- CLEAR AND GRUB SO NO ORGANICS REMAIN, REMOVE HEADERS (APPROX. 25,076 SF) |
| | EXISTING TURF AREA TO BE DEMOLISHED. REMOVE EXISTING TURF WITH SOD CUTTER, DO NOT DAMAGE EXISTING TREE ROOTS. TREAT KIKUYU GRASS AND BROADLEAF WEEDS WITH TURFLON ESTHER, 2 APPLICATIONS OVER A 2 WEEK PERIOD (MINIMUM) PRIOR TO INSTALLING NEW PLANTING. APPLY PRE-EMERGENT (RONSTAR OR EQUAL) PER MANUFACTURER'S RECOMMENDATIONS. (APPROXIMATELY 4,792 SF) |

0' 8' 16' 32'
SCALE: 1" = 16'-0"

N

ANDERSON BRULÉ ARCHITECTS
325 South First Street, 4th Floor
San Jose, California 95113
408.298.1885 | www.aba-arch.com

CONSULTANTS LOGO

DEPARTMENT OF SPACE
SITE DESIGN STUDIO
480 N Indian Hill Blvd, Suite 2B
Claremont, CA 91711

STAMP

NOT FOR CONSTRUCTION

| NO. | DATE | REVISIONS |
|---|---|---|
| | 10-11-23 | 100% DD |

PROJECT TITLE:

# ALTADENA MAIN LIBRARY

600 E MARIPOSA STREET
ALTADENA, CA 91001

| | |
|---|---|
| PROJECT NO. | 2111010 |
| DATE: | 10-11-23 |

SHEET TITLE:

## LANDSCAPE DEMOLITION PLAN

SCALE: AS SHOWN

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7/18/2022 11:25:03 AM

ALTADENA LIBRARY DISTRICT
600 Mariposa Street Altadena CA 90110

| # | Species | Common | DBH (in) | HxW | Health | Structure | N (') | W (') | S (') | E (') | Detail |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | *Cupressus sempervirens* | Italian Cypress | 18.0 | 50x20 | 75 | 72 | 1 | OP | OP | 10 | Storm damage, pruned for clearance, co-dominant main scaffold branches. Prune for structure if |
| 2 | *Pittosporum tobira* | Mock Orange | 3,2.5, 2, 2, 3.5 | 18x20 | 78 | 75 | 10 | 10 | 10 | 10 | Shrubs that have become trees |
| 3 | *Pinus canariensis* | Canary Island Pine | 26.5 | 70x35 | 72 | 70 | 17 | 17 | 17 | 17 | Crown raised to 25 ft. Epicormic growth, restructured after severe pruning event, foliage off color. Monitor yearly - stimulate root and shoot growth with low salt fertilizer and water |
| 4 | *Pinus canariensis* | Canary Island Pine | 17.0 | 45x20 | 70 | 68 | 10 | 10 | 10 | 10 | Crown raised to 20 ft. co-dominant structure, foliage off color, epicormic shoots. Monitor yearly, stimulate root growth with fertigation. May be a candidate for removal -health |
| 5 | *Pinus canariensis* | Canary Island Pine | 23.0 | 70x30 | 73 | 72 | 15 | 15 | 15 | 15 | Crown raised to 25 ft. Epicormic growth, restructured after severe pruning event, foliage off color. Monitor yearly - stimulate with low salt fertilizer and water |
| 6 | *Pinus canariensis* | Canary Island Pine | 28.5 | 70x30 | 73 | 70 | 15 | 15 | 15 | 15 | Crown raised to 25. Metal stake growing into tree, epicormic shoots, base of tree is swollen and sound hollow when struck with mallet. Advanced decay detection (sonic tomography) recommended. |
| 7 | *Phoenix canariensis* | Canary Island Date Palm | 14' BT | 20 x 20 | 75 | 75 | 10 | 10 | 10 | 10 | 20 live fronds, leaf bases shaped (wounds to trunk) |
| 8 | *Pinus canariensis* | Canary Island Pine | 13.3 | 30x15 | 70 | 70 | 7 | 7 | 7 | 7 | May be a candidate for removal - health. Suppressed by adjacent tree |
| 9 | *Pinus canariensis* | Canary Island Pine | 40.5 | 60x50 | 75 | 80 | 30 | 25 | 20 | 12 | Epicormic shoots, recovering from a hard prune, restructured. Foliage color good |
| 10 | *Pinus canariensis* | Canary Island Pine | 28.0 | 65x35 | 75 | 75 | 21 | 12 | 15 | 19 | Epicormic shoots, recovering from hard prune. |
| 11 | *Phoenix canariensis* | Canary Island Date Palm | 25 ft BT | 30x15 | 85 | 85 | 7 | 7 | 7 | 7 | 40 live fronds, memorial bench underneath |
| 12 | *Phoenix canariensis* | Canary Island Date Palm | 20 ft BT | 25 x 15 | 90 | 85 | 7 | 7 | 7 | 7 | 40 live fronds, memorial bench underneath |
| 13 | *Cedrus deodara* | Deodar Cedar | 32.5 | 55x60 | 75 | 72 | 30 | 30 | 20 | 25 | North side of tree is over structure. Soil very dry , thinning canopy, dieback on W (heat damage?) woodpecker damage. Fertigation recommended to improve shoot and root growth |
| 14 | *Cedrus deodara* | Deodar Cedar | 20.0 | 25x30 | 69 | 70 | 15 | 15 | 15 | 15 | Dieback, in decline, poor new shoot growth, raised in small planter with limited root area. Candidate for removal - health. |
| 15 | *Cedrus deodara* | Deodar Cedar | 14.5 | 35x25 | 85 | 85 | 12 | 12 | 12 | 12 | Circling roots, in small planter which it may eventually outgrow. Treat as potted. Water and fertilize |
| 16 | *Afrocarpus falcata* | African Fern Pine | 24.8 | 35x30 | 80 | 80 | 17 | 18 | 17 | 17 | In main planter near rear entry, rounded and raised. |
| 17 | *Pistacia chinensis* | Chinese Pistache | 11.5 | 20x20 | 72 | 70 | 10 | 10 | 15 | 10 | Suppressed. Adjacent to shed by rear. May need to be removed to construct new entry |
| 18 | *Cedrus deodora* | Deodar Cedar | 27.3 | 55x32 | 75 | 75 | 11 | 19 | 21 | 25 | Crown raised to 25 ft. pruned hard and restructured, epicormic shoots |
| 19 | *Pinus canariensis* | Canary Island Pine | 43.0 | 70x20 | 75 | 70 | 23 | 19 | 17 | 22 | Crown raised, pruned hard and restructured, epicormic shoots, woodpecker holes |
| 20 | *Cupaniopsis anacardioides* | Carrotwood | 11.5 | 20x20 | 75 | 70 | 9 | 9 | 9 | 9 | Rounded over, center stripped, reduced. Candidate for removal - aesthetic |
| 21 | *Cedrus deodora* | Deodar Cedar | 13.0 | 35x25 | 78 | 78 | 12.5 | 13 | 13 | 13 | Julius Shulman memorial tree with plaque, cleared to 8 ft from grade, top broken, new top establishing |
| 22 | *Washingtonia filifera* | California fan palm | 27 ft BT | 40x10 | 72 | 70 | 5 | 5 | 5 | 5 | Pencilling, hourglass thinning, spike wounds mechanical damage, woodpecker nests? Remove - health? |
| 23 | *Heptapleurm calyptratum* | Tupidanthus | 3.5, 4,3,6,6,5,5 | 15 x 20 | 75 | 72 | 7 | 10 | 12 | 11 | Clump next to main library entry |
| 24 | *Pinus canariensis* | Canary Island Pine | 40.0 | 55x35 | 75 | 75 | 18 | 15 | 18 | 16 | Rounded and stubbed in previous hard pruning event, restructured, epicormic shoots, new shoot growth OK, monitor yearly for new growth, Water and fertilize. Removal candidate -aesthteic |
| 25 | *Cupaniopsis anacardioides* | Carrotwood | 9.5 | 30x25 | 75 | 70 | 10 | 9 | 8 | 10 | Rounded over, center stripped, reduced. Candidate for removal - aesthetic |
| 26 | *Cupaniopsis anacardioides* | Carrotwood | 8.0 | 25x25 | 75 | 70 | 11 | 8 | 10 | 9 | Rounded over, center stripped, reduced. Candidate for removal - aesthetic |
| 27 | *Phoenix canariensis* | Canary Island Date Palm | 40 ft BT | 45 x15 | 78 | 75 | 7 | 7 | 7 | 7 | Pencilling, air roots, 40 live fronds, nests |
| 28 | *Pinus canariensis* | Canary Island Pine | 18.0 | 50x20 | 75 | 75 | 9 | 8 | 14 | 10 | Epicormic shoots. Candidate for removal - aesthetic |
| 29 | *Phoenix canariensis* | Canary Island Date Palm | 20 ft BT | 30 x 20 | 85 | 85 | 10 | 10 | 10 | 10 | 20 live fronds, growing at an angle on rocks |
| 30 | *Pinus canariensis* | Canary Island Pine | 17.0 | 45x25 | 85 | 85 | 12 | 9 | 9 | 10 | Healthy new growth |
| 31 | *Pistacia chinensis* | Chinese Pistache | 7.5 | 15x20 | 75 | 75 | 7 | 7 | 7 | 5 | Rounded over, 5 degree lean NW |
| 32 | *Pistacia chinensis* | Chinese Pistache | 7.5 | 15x20 | 75 | 75 | 7 | 7 | 7 | 7 | Rounded over, shortened |
| 33 | *Washingtonia robusta* | Mexican Fan Palm | 30 ft BT | 35x12 | 75 | 75 | 6 | 6 | 6 | 6 | May be candidate for removal - aesthetic |
| 34 | *Arbutus marina* | Strawberry Tree | 13 @1 ft | 25x17 | 75 | 75 | 9 | 8 | 8 | 9 | Crowded branching, center stripped, poor callus tissue formation |
| 35 | *Arbutus marina* | Strawberry Tree | 9 @2ft | 20x14 | 72 | 73 | 7 | 6 | 7 | 7 | Mechanical damage to cambium layer, circling roots, crowded branches, seam of damage on bark, |
| 36 | *Phoenix canariensis* | Canary Island Date Palm | 20 ft BT | 20x20 | 78 | 78 | 10 | 10 | 10 | 10 | Seedling trees in leaf bases on lower trunk where it is wet by sprinklers. Remove spray from trunk |
| 37 | *Arbutus marina* | Strawberry Tree | 5 @ 3ft | 15x7 | 70 | 70 | 0 | 4 | 4 | 3 | Declining, canker damage at base. Candidate for removal - health |
| 38 | *Phoenix canariensis* | Canary Island Date Palm | 35 ft BT | 40x15 | 72 | 73 | 7 | 7 | 7 | 7 | Signs of dieback in fronds, monitor for pink rot, remove sprinklers spray from trunk |

ALTADENA LIBRARY DISTRICT
600 Mariposa Street Altadena CA 90110
4/27/2022

| # | Species | Common | DBH (in) | HxW | Health | Structure | N (') | W (') | S (') | E (') | Detail |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 39 | *Heptapleurm calyptratum* | Tupidanthus | 5,5,7,9.5, 9 | 33x12 | 85 | 75 | 6 | 0 | 6 | 8 | Near wall front planter facing Mariposa near building |
| 40 | *Pistache chinensis* | Chinese Pistache | 7.5 | 20x13 | 80 | 75 | 6 | 6 | 6 | 7 | Symmetrical, dominant, near front entry walk from Mariposa |
| 41 | *Phoenix canariensis* | Canary Island Date Palm | 20 ft BT | 30x20 | 90 | 90 | 10 | 10 | 10 | 10 | Near sidewalk, remove sprinkler spray from trunk, seedling acorns growing on tree |
| 42 | *Arbutus marina* | Strawberry Tree | 13 @2 ft | 25x15 | 80 | 75 | 6 | 8 | 12 | 9 | Suppressed, shortened, hummingbird feeder in tree |
| 43 | *Jacaranda mimosifolia* | Jacaranda | 17.0 | 40x25 | 72 | 72 | 10 | 27 | 23 | 9 | Co-dominant scaffolds, restructured after hard pruning, needs continued restructuring |
| 44 | *Phoenix canariensis* | Canary Island Date Palm | 3ft BT | 5x15 | 90 | 90 | 7 | 7 | 7 | 7 | Too close to sidewalk? Young tree. Relocate? Awkward location |
| 45 | *Arbutus marina* | Strawberry Tree | 10 @ 1 ft | 20x17 | 80 | 70 | 9 | 10 | 7.5 | 7 | Severely co-dominant, crowded branches, remove ivy. Prune for structure over time |
| 46 | *Arbutus marina* | Strawberry Tree | 8 @ 2ft | 20x11 | 70 | 70 | 5 | 5 | 4 | 7.5 | Structural crack in main trunk. Candidate for removal - health/structure |
| 47 | *Jacaranda mimosifolia* | Jacaranda | 17.0 | 40x24 | 75 | 73 | 12.5 | 12 | 10 | 24 | Exposed roots, lean, poor trunk taper, power line through canopy. Removal candidate - aesthetic |
| 48 | *Jacaranda mimosifolia* | Jacaranda | 15.0 | 40x30 | 75 | 73 | 5 | 9 | 21 | 13 | Severely co dominant branches, circling roots, leaning S, trunk buried, South canopy over structure |
| 49 | *Olea europea* | Olive | 10,8,13,9,17,25 | 35x45 | 90 | 75 | 24 | 24 | 21 | 19 | Remove water spray on trunk, hole and decay on lower branch on NE, interior foliage stripped, Monitor yearly |
| 50 | *Pittosporum tobira* | Mock Orange | 6,8,4,6 | 20x14 | 72 | 74 | 7.5 | 12 | 11 | 12 | Canker on inside branch. Slow moving disease. Sterilize tools |
| 51 | *Quercus agrifolia* | Coast live oak | 9.0 | 30x11 | 85 | 72 | 8 | 5.5 | 5.5 | 9 | Poor taper, center stripped, string on trunk, prune for structure? Remove for new driveway? |
| 52 | *Quercus agrifolia* | Coast live oak | 12 @1.5 ft | 30x16 | 90 | 70 | 9 | Oppl | 7 | 9 | Growing in fence, Remove for new driveway? Not a good relocation candidate |
| | | | | | | | | | | | |
| ST-1 | *Cedrus deodara* | Deodar Cedar | 38.0 | 60x50 | 75 | 75 | 24 | 21 | 26 | 26 | Possible root damage on S, crown raised to 18 ft., stub cuts, circling root 1" in diameter could be cut. Lights and rigging in canopy |
| St-2 | *Cedrus deodora* | Deodar Cedar | 53.0 | 70x60 | 80 | 73 | 30 | 30 | 30 | 30 | Severely co-dominant structure, potential for branch failure from weak attachment. Circling roots. Decay can be seen in lower scaffold branch. Driveway 10ft S, Walkway 15 ft W, Street on E. Lights and rigging in canopy |
| St-3 | *Cedrus deodora* | Deodar Cedar | 40.0 | 70x50 | 80 | 75 | 25 | 25 | 25 | 25 | Circling roots, root uplift on sidewalk that has been patched, lights and rigging in canopy |
| St-4 | *Cedrus deodara* | Deodar Cedar | 33.5 | 70x34 | 80 | 80 | 17 | 17 | 17 | 17 | Co-dominant scaffolds, lights and rigging |
| St-5 | *Cedrus deodora* | Deodar Cedar | 2.0 | 15x15 | 95 | 95 | 7 | 7 | 7 | 7 | Young healthy tree |
| St-6 | *Cedrus deodora* | Deodar Cedar | 15.0 | 40x30 | 80 | 80 | 16 | 13 | 14 | 15 | Trunk has bulging that may be decay, further testing is recommended, rigging and lights in tree |
| | | | | | | | | | | | |




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325 South First Street, 4th Floor
San Jose, California 95113
408.298.1885 | www.aba-arch.com

CONSULTANTS LOGO

DEPARTMENT OF SPACE
SITE DESIGN STUDIO
490 N Indian Hill Blvd, Suite 2B
Claremont, CA 91711

STAMP

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| NO. | DATE | REVISIONS |
|---|---|---|
| | 10-11-23 | 100% DD |

PROJECT TITLE:

# ALTADENA MAIN LIBRARY

600 E MARIPOSA STREET
ALTADENA, CA 91001

PROJECT NO. 2111010
DATE: 10-11-23
SHEET TITLE:

**ARBORIST REPORT**

SCALE: AS SHOWN

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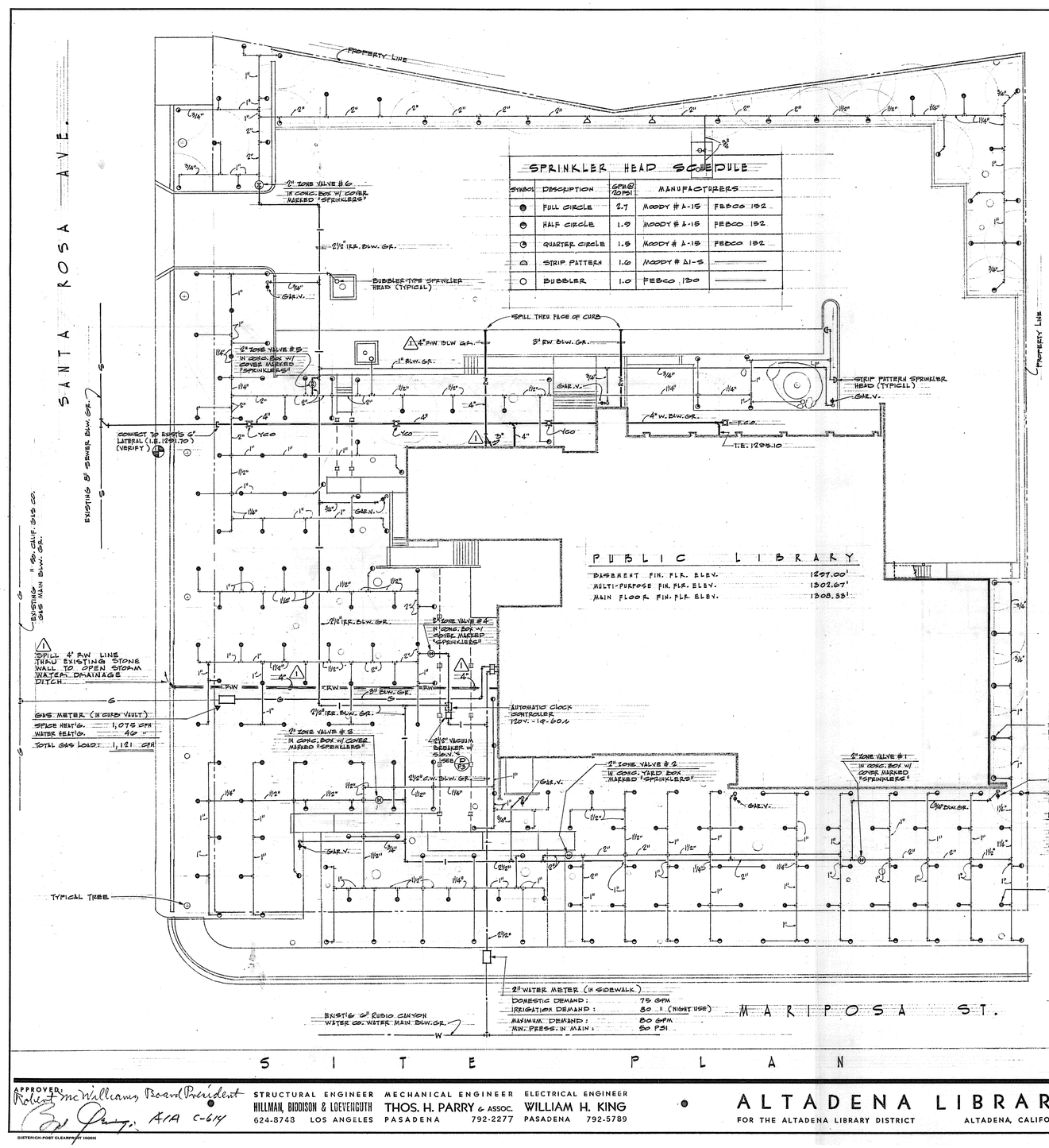


SITE PLAN

SCALE: 1/16" = 1'-0"

| MARK NO. | DESCRIPTION | CONNECTIONS W | V | CW | HW | G | REMARKS |
|---|---|---|---|---|---|---|---|
| 1 | WATER CLOSET, PUBLIC | 4" | 2" | 1½" | • | • | WALL HUNG, FLUSH VALVE |
| 2 | WATER CLOSET, PRIVATE | 4" | 2" | 3/4" | • | • | WALL HUNG, TANK TYPE |
| 3 | URINAL | 2" | 1½" | 1¼" | • | • | WALL HUNG, MOUNTING HEIGHTS: MEN'S TOILET RM.: 24" TO LIP BOY'S TOILET RM.: 18" TO LIP |
| 4 | LAVATORY | 2" | 1½" | ½" | ½" | • | 20" x 18" WALL HUNG |
| 5 | LAVATORY | 2" | 1½" | ½" | ½" | • | 18" DIA. COUNTERTOP |
| 6 | SERVICE SINK | 3" | 1½" | ¾" | ¾" | • | 20" x 24" TRIM STANDARD |
| 7 | SINK, STAINLESS STEEL | 2" | 1½" | ½" | ½" | • | 16" x 20" SINGLE COMPARTMENT |
| 8 | SINK, CAST IRON | 2" | 1½" | ½" | ½" | • | 32" x 21" DOUBLE COMPARTMENT |
| 9 | DRINKING FOUNTAIN | 2" | 1½" | ½" | • | • | SURFACE MOUNTED |
| 10 | WATER COOLER, ELECTRIC | 2" | 1½" | ½" | • | • | 1/5 H.P. 115V. - 1Φ - 60~ SEMI-RECESSED |
| 11 | DOMESTIC WATER HEATER | • | • | 1¼" | 1¼" | ¾" | 50,000 BTU/HR., 50 GAL. STORAGE CAPACITY |
| 12 | HOT WATER CIRCULATOR | • | • | • | ¾" | • | 1/12 H.P. 120 V. - 1Φ - 60~ |
| 13 | KITCHEN UNIT (SEE BID ALT. "A") | 2" | 1½" | ½" | ½" | • | 3,300 WATT RANGE & OVEN 1/3 H.P. GARB. DISP. 120/208 V. 3Φ - 60~ |
| 14 | FLOOR DRAIN | 2" | 1½" OR 2" | • | • | • | 5" DIA. BRONZE STRAINER |
| 15 | FLOOR DRAIN | 2" | 1½" OR 2" | • | • | • | COMBINATION DRIP DRAIN W/ 6" DIA. FUNNEL & 8" DIA. STRAINER |
| 16 | FLOOR SINK | 2" | 1½" | • | • | • | 12" SQ. x 8" DEEP |
| 17 | ROOF DRAIN | • | • | • | • | • | BOTTOM OUTLET 3" & 2" |
| 18 | ROOF DRAIN | • | • | • | • | • | SIDE OUTLET 2" & 3" |

PLUMBING EQUIPMENT SCHEDULE

| ABBREVIATION | DESCRIPTION | SYMBOL |
|---|---|---|
| S | EXISTING SEWER LINE | ——S—— |
| W | EXISTING WATER LINE | ——W—— |
| S & W | SEWER & WASTE, CAST IRON PIPE | |
| S | SEWER, VITRIFIED CLAY PIPE | |
| RW | RAINWATER PIPING, CAST IRON OR GALV. STEEL | ——RW—— |
| PW | RAINWATER PIPING, VITRIFIED CLAY PIPE | ——PW—— |
| V, VTR | VENT, VENT THROUGH ROOF | - - - - - |
| CW | COLD WATER | ——·—— |
| HW | HOT WATER | ——··—— |
| HWR | HOT WATER RETURN | ——···—— |
| G | GAS | ——G—— |
| YCO, WCO, FCO | YARD CLEANOUT, WALL CLEANOUT, FLOOR CLEANOUT | |
| D.S. | DOWNSPOUT | |
| S.C.V. | SHUT-OFF VALVE | |
| P.O.C. | POINT OF CONNECTION | |
| P.T. | PLUGGED TEE | |
| I.E. | INVERT ELEVATION | |
| C.D. | CONDENSATE DRAIN | ——CD—— |
| IRR. | IRRIGATION WATER | ——I—— |
| H.B., GAR.V. | HOSE BIBB, GARDEN VALVE | |
| | MARK NO. | |
| | ROOM NO. | |

LEGEND

1. ALL WORK MUST CONFORM TO REQUIREMENTS OF GOVERNING CODES & AUTHORITIES HAVING JURISDICTION.
2. ALL PIPING & EQUIPMENT MUST BE INSTALLED IN ACCORDANCE WITH DRAWINGS & SPECIFICATIONS. OBTAIN APPROVAL IN WRITING FROM ARCHITECT FOR ANY DEVIATION.
3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS & MOUNTING HEIGHTS OF ALL PLUMBING FIXTURES.
4. ALL PIPING TO BE CONCEALED UNLESS OTHERWISE NOTED OR SHOWN.
5. (G) UNDER GENERAL CONTRACTOR WORK SECTION.
6. (M) UNDER HEATING & AIR CONDITIONING WORK SECTION.
7. (P) UNDER PLUMBING WORK SECTION.
8. (E) UNDER ELECTRICAL WORK SECTION.

GENERAL NOTES

| REV. | NOTES | DATE |
|---|---|---|
| 1 | BLDG. DEPT. CORRECTIONS. 7-5-66 | |

REV. 6-1-66
DRAWN BY RD
DATE AUG 19, '65

APPROVED: Robert McWilliams, Board President
DIETERICH-POST CLEARPRINT 1000H

STRUCTURAL ENGINEER: HILLMAN, BIDDISON & LOEVERGUTH 624-8748 LOS ANGELES
MECHANICAL ENGINEER: THOS. H. PARRY & ASSOC. PASADENA 792-2277
ELECTRICAL ENGINEER: WILLIAM H. KING PASADENA 792-5789

ALTADENA LIBRARY
FOR THE ALTADENA LIBRARY DISTRICT ALTADENA, CALIFORNIA

BARCHITECT
BOYD GEORGI AIA
681-2127 798-6734 1704 SKYVIEW DRIVE ALTADENA

P-1 OF 4

ORIGINAL SITE PLUMBING PLAN SHOWN FOR REFERENCE ONLY

LOCATIONS OF EXISTING IRRIGATION MAINLINES AND LATERALS TO BE DETERMINED IN FIELD

### IRRIGATION REMOVAL NOTES

1. EXISTING IRRIGATION SYSTEM TO BE REMOVED AND REPLACED. SALVAGE ALL EXISTING VALVES AND VALVE BOXES FOR POTENTIAL REUSE.
2. LOCATE AND REUSE EXISTING SLEEVES OR LINES RUNNING UNDERNEATH PAVING OR THROUGH HARDSCAPE AREA.
3. REMOVE ALL MAINLINES AND LATERAL LINES. IF EXISTING IRRIGATION LINES TO BE REMOVED RUN THROUGH EXISTING TREE ROOTS, SHRUB AREAS TO REMAIN, OR EXISTING UTILITIES CUT LINES AS NEEDED AND LEAVE IN PLACE SO THESE AREAS ARE NOT DISTURBED.
4. DURING CONSTRUCTION, MAINTAIN IRRIGATION TO ALL PLANTING AREAS AND TREES TO REMAIN THROUGH TEMPORARY ABOVE GROUND IRRIGATION OR HAND WATERING. COORDINATE WITH LIBRARY FACILITIES REGARDING RUN TIMES AND COVERAGE.
5. THE ATTACHED PLUMBING PLAN IS AS-DESIGNED FROM THE 1960S AND INTENDED TO BE USED AS REFERENCE ONLY. DO NOT REMOVE ANY OTHER SITE UTILITIES (INCLUDING PLUMBING, GAS) AS PART OF THIS SCOPE OF WORK.

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|---|---|---|
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PROJECT NO. 2111010
DATE: 10-11-23
SHEET TITLE:

## IRRIGATION DEMOLITION PLAN

SCALE: AS SHOWN

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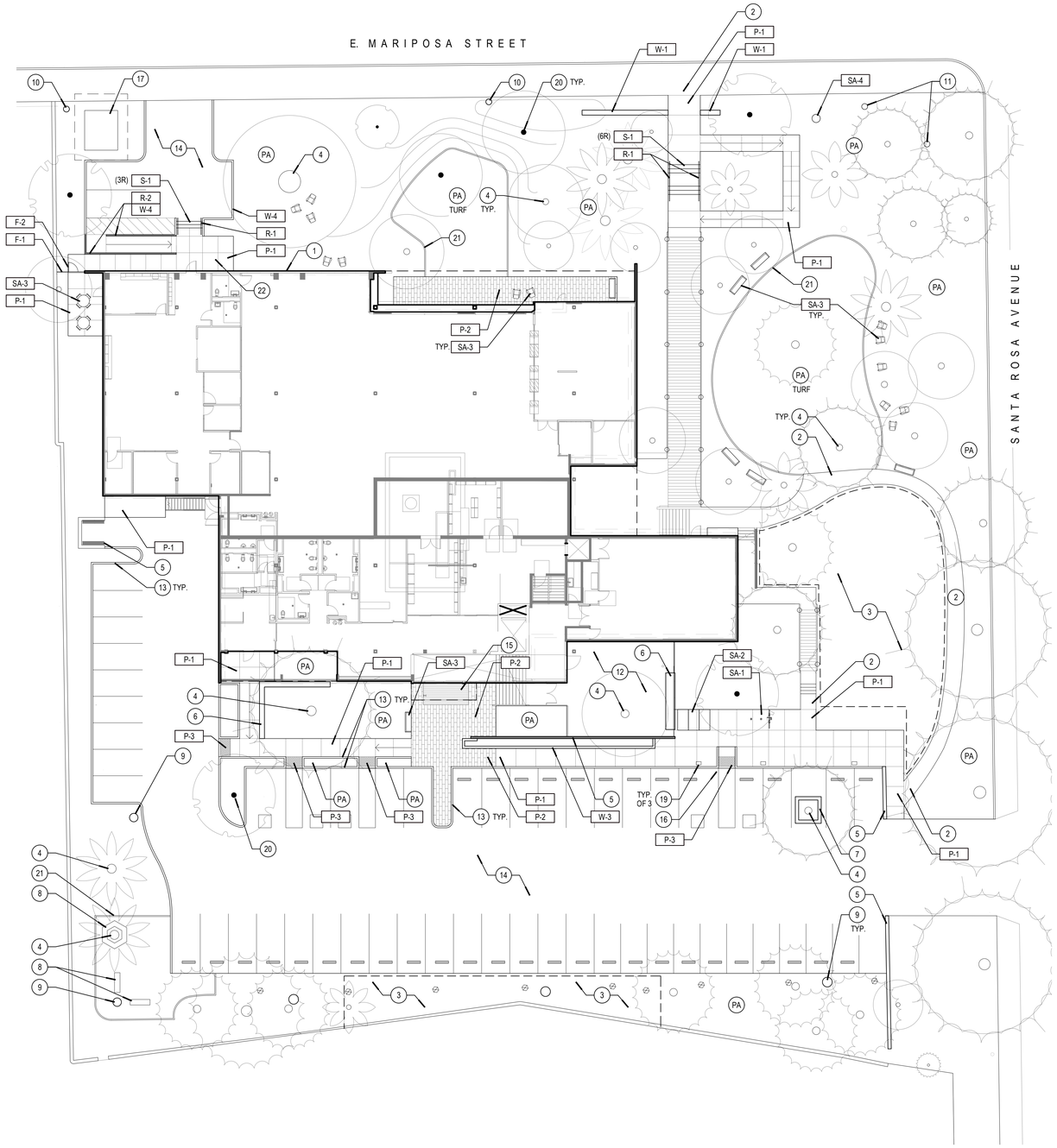


## CONSTRUCTION LEGEND

| ITEM | DESCRIPTION | DETAIL |
|---|---|---|
| P-1 | PEDESTRIAN CONCRETE PAVING- INTEGRAL COLOR DAVIS PEBBLE, LIGHT SAND FINISH, WITH SINAK HLQ-125 SEALANT | PER CIVIL |
| P-2 | PRECAST CONCRETE PAVERS | 05 / L110 |
| P-3 | TRUNCATED DOME PAVERS | 06 / L110 |
| P-4 | SYNTHETIC TURF | 09 / L110 |
| S-1 | CONCRETE STEPS | 08 / L110 |
| D-1 | COMPOSITE WOOD DECKING | |
| D-2 | STEPS AT WOOD DECK | |
| R-1 | STEEL HANDRAIL AT STEPS | 08 / L110 |
| R-2 | STEEL HANDRAIL AT RAMP | |
| F-1 | WOOD FENCE | 10 / L111 |
| F-2 | WOOD GATE | 03 / L111 |
| W-1 | ENTRY SIGN WALL | 09 / L111 |
| W-2 | STONE VENEER SEAT WALL | 01 / L111 |
| W-3 | CONCRETE BLOCK PLANTER WALL | 05 / L111 |
| W-4 | 6" THICK LOW CONCRETE WALL / CURB, MATCH P-1 COLOR AND FINISH, SEE CIVIL DRAWINGS FOR ELEVATIONS | |
| SA-1 | BIKE RACKS- "CAPITOL" BY FORMS + SURFACES 800-451-0410, 3 RACKS = 6 SHORT TERM SPACES TOTAL | 10 / L110 |
| SA-2 | BIKE LOCKERS- "SINGLE BIKE LOCKER" BY HUNTCO 503-224-8700, 3 LOCKERS = 3 LONG TERM BIKE PARKING SPACES TOTAL. POWDER COATED COLOR GRAPHITE WITH POP-T LOCK HANDLE AND STANDARD PERFORATIONS- ROUND PERFORATIONS AT EACH DOOR AND BIKE ICON PERFORATION AT OUTERMOST WALL FACING SIDEWALK. SUBMIT CUTSHEET AND SHOP DRAWING FOR APPROVAL. SURFACE MOUNT TO CONCRETE SLAB PER MANUFACTURER'S RECOMMENDATIONS | |
| SA-3 | ANCHORED SITE FURNISHINGS TO BE SELECTED | |
| SA-4 | RELOCATED FLAG POLE WITH NEW FOOTING | PER STRUCT. |

## CONSTRUCTION REFERENCE LEGEND

| ITEM | DESCRIPTION |
|---|---|
| 1 | FACE OF EXISTING BUILDING |
| 2 | EXISTING PAVING AREA TO REMAIN, MEET FLUSH, PROTECT IN PLACE (TYPICAL ALL ITEMS TO REMAIN) |
| 3 | EXISTING PLANTING AREA TO REMAIN, HAND WATER OR PROVIDE TEMPORARY IRRIGATION DURING CONSTRUCTION |
| 4 | EXISTING TREE TO REMAIN, SEE SHEET L001 FOR TREE PROTECTION NOTES |
| 5 | EXISTING CMU BLOCK WALL TO REMAIN, REFER TO SITE DEMOLITION PLAN FOR CUT LOCATION WHERE APPLICABLE |
| 6 | EXISTING LOW COBBLE WALL PORTION TO REMAIN, REFER TO SITE DEMOLITION PLAN FOR CUT LOCATION |
| 7 | EXISTING CONCRETE PLANTER BOX TO REMAIN |
| 8 | EXISTING WOOD BENCHES TO REMAIN, CLEAN AND RESEAL. REMOVE AND REINSTALL IN PLACE AS NEEDED TO INSTALL NEW IRRIGATION AND TURF. |
| 9 | EXISTING LIGHT POLE TO REMAIN |
| 10 | EXISTING UTILITY POLE TO REMAIN |
| 11 | EXISTING BANNER POLE TO REMAIN |
| 12 | RAISED DECK PER ARCHITECT |
| 13 | CURB PER CIVIL, MATCH P-1 COLOR AND FINISH |
| 14 | ASPHALT PAVING (NEW OR RESURFACED) PER CIVIL |
| 15 | WALK OFF MAT |
| 16 | ACCESSIBLE RAMP- REFER TO CIVIL DRAWINGS |
| 17 | PROPOSED TRANSFORMER PAD |
| 18 | ENCLOSURE FOR TRASH AND MAINTENANCE STORAGE PER ARCHITECT |
| 19 | ELECTRICAL VEHICLE CHARGING STATION |
| 20 | PROPOSED TREE- SEE PLANTING PLAN |
| 21 | PROPOSED LANDSCAPE EDGING- SEE PLANTING PLAN |
| 22 | 9' X 10' PAD FOR MAINTENANCE SHED |
| PA | PROPOSED PLANTING AREA- SEE PLANTING PLAN |

SCALE: 1" = 16'-0"

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SHEET TITLE:

## SITE CONSTRUCTION PLAN

SCALE: AS SHOWN

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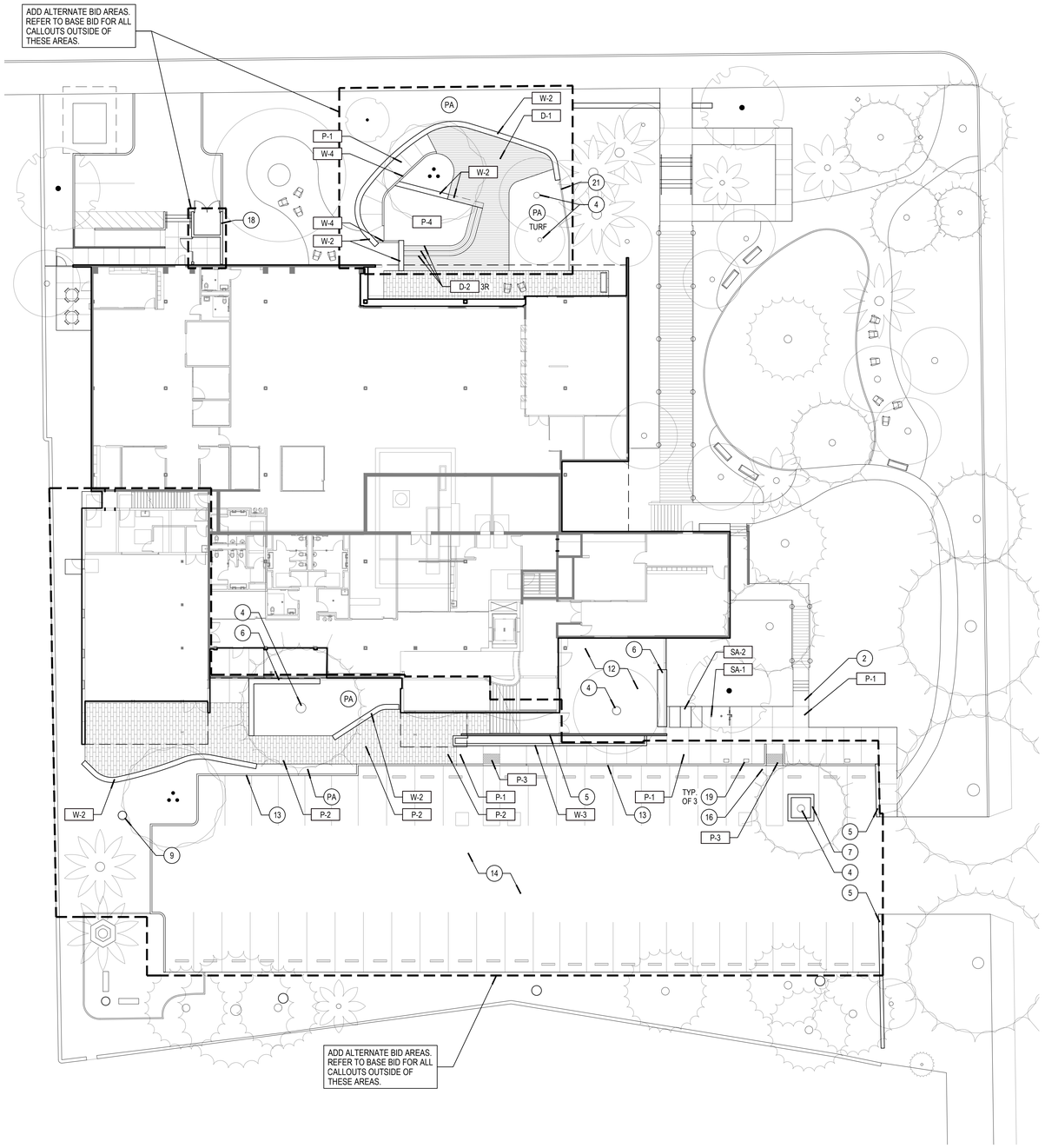


## CONSTRUCTION LEGEND

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| 22 | 9' X 10' PAD FOR MAINTENANCE SHED |
| PA | PROPOSED PLANTING AREA- SEE PLANTING PLAN |

0' 8' 16' 32'
SCALE: 1" = 16'-0"

N

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**SITE CONSTRUCTION PLAN- ADD ALT**

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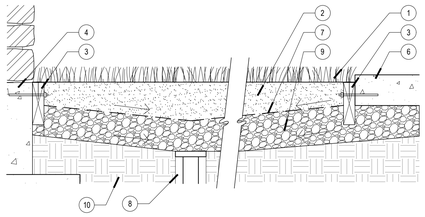
1. SYNTHETIC TURF. FASTEN TO NAILER BOARD. APPLY 3 LBS/SF FILLER PER MANUFACTURER RECOMMENDATION. PLAY SAFE SELECT 50, 300-OLIVE, BY SOUTHWEST GREENS 877-260-7888 OR APPROVED EQUAL
2. 3" MIN. UNSTABILIZED DECOMPOSED GRANITE OR SAND FILL PER MANUFACTURER RECOMMENDATIONS
3. 2 X 6 REDWOOD NAILER. DRILL AND EPOXY SS ANCHOR BOLT 3' O.C. MIN. AND 6" FROM EACH END
4. HAUNCH AT ADJACENT STONE SEATWALL
6. ADJACENT CONCRETE PAVING
7. FILTER FABRIC: MIRAFI 140N OR APPROVED EQUAL, PITCH LAYER AT 1% MIN. TO DRAINAGE
8. DRAINAGE SUMP PER CIVIL
9. 4" MIN. LAYER CRUSHED AGGREGATE BASE AT 90% RELATIVE COMPACTION
10. SUBGRADE, SCARIFY AND RECOMPACT TO AT LEAST TOP 12" TO 90% MAXIMUM DENSITY



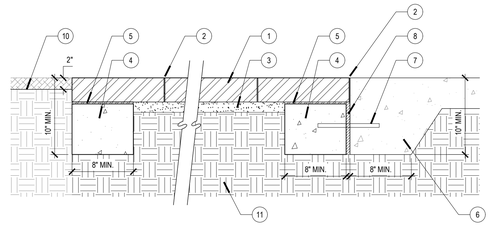

EDGE AT STONE SEAT WALL

TRANSITION AT PAVING

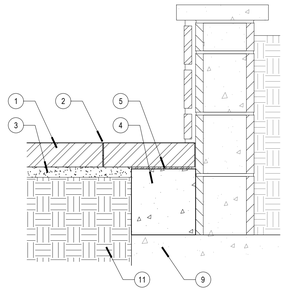
09 | SYNTHETIC TURF | 1½"=1'-0"

1. PRECAST CONCRETE PAVERS
2. POLYMERIC SAND JOINT
3. 2" MIN. SAND LEVELING COURSE
4. CONCRETE SUBBASE AT PAVER TRANSITION
5. MORTAR SET
6. DEEPEN EDGE OF CONCRETE PAVING AT PRECAST PAVER TRANSITION
7. 8" DOWEL 18" O.C. INTO ADJACENT PAVING
8. 1/4" FOAM EXPANSION JOINT
9. PLANTER WALL FOOTING
10. FINISH GRADE WITH MULCH LAYER AT ADJACENT PLANTING AREA
11. 12" THICK LAYER OF ROAD BASE COMPACTED TO 90%, PREPARED PER GEOTECHNICAL REPORT, TYPICAL AT ALL FLATWORK

NOTES:
A. PAVERS:
ECOHEX BY ORCO
DIMENSIONS: 9" HEX BY 80mm (3.14") THICKNESS
FINISH: BURNISHED
COLOR: PASTELLO BLEND
AVAILABLE THROUGH: THOMPSON BUILDING MATERIALS 909-350-3000



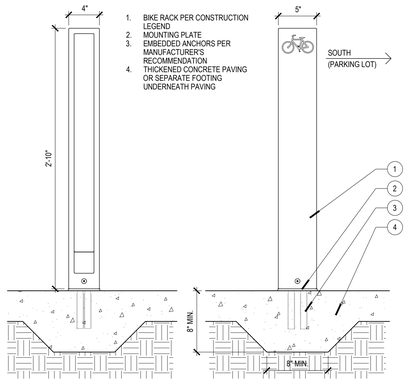

EDGE OF PAVER CONDITION




TRANSITION AT CONCRETE PAVING

TRANSITION AT PLANTER WALL

05 | PRECAST CONCRETE PAVERS | 1½"=1'-0"




1. BIKE RACK PER CONSTRUCTION LEGEND
2. MOUNTING PLATE
3. EMBEDDED ANCHORS PER MANUFACTURER'S RECOMMENDATION
4. THICKENED CONCRETE PAVING OR SEPARATE FOOTING UNDERNEATH PAVING

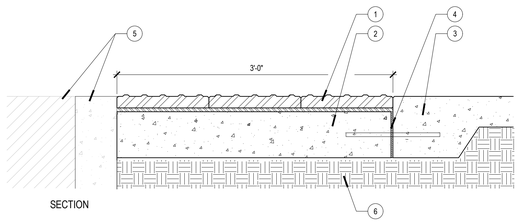
REAR ELEVATION (TO FACE SIDEWALK)

SIDE ELEVATION

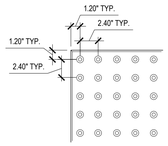
10 | BIKE RACK | 1½"=1'-0"

1. ADA DOME (PAVER) IN DARK GREY BY TEKWAY 520-547-3515, INSTALL OVER THINSET BASE
USE LARGEST MODULE
3' X 5' AREA: TWO 30" X 36" SIZES
3' X 6' AREA: THREE 24" X 36" SIZES
2. 4" THICK CONCRETE SUB BASE
3. DEEPENED EDGE OF ADJACENT PEDESTRIAN CONCRETE PAVING
4. EXPANSION JOINT WITH 8" DOWELS 18" O.C.
5. ADJACENT FLUSH CURB AND ASPHALT PAVING PER CIVIL
6. SUB BASE PER CONCRETE PAVING DETAIL, SEE CIVIL

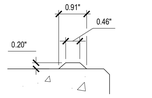
NOTES:
A. TRANSITIONS FROM RAMPS AND LANDING TO WALKS, GUTTERS, OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES.
B. MAXIMUM SLOPES OF ADJOINING GUTTERS, THE ROAD SURFACE IMMEDIATELY ADJACENT TO THE CURB RAMP, OR ACCESSIBLE ROUTE SHALL NOT EXCEED 5% IN ANY DIRECTION WITHIN 4' OF BOTTOM OF THE CURB RAMP.
C. REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.




SECTION

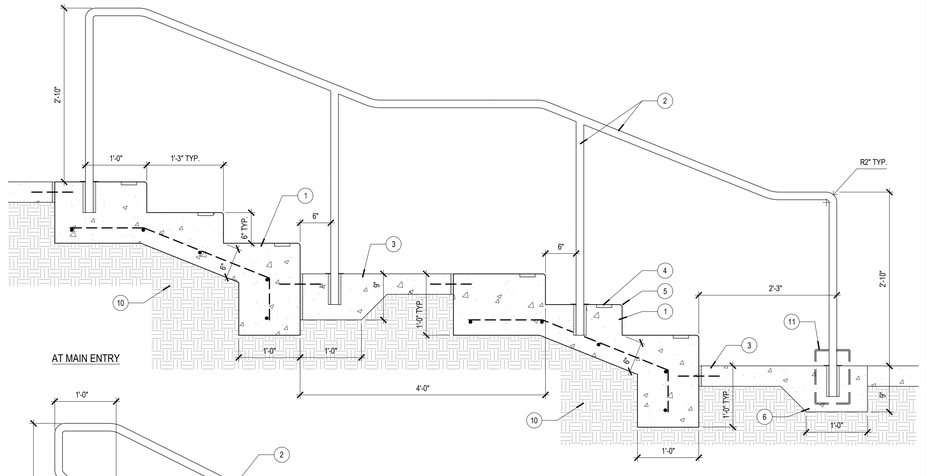



DIMPLE PLAN




DIMPLE ENLARGEMENT (NTS)

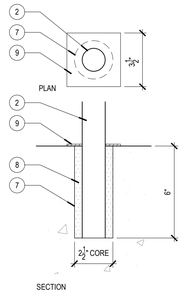
06 | TRUNCATED DOME PAVERS | 1½"=1'-0"




AT MAIN ENTRY

AT NORTHWEST EMPLOYEE PARKING

1. CONCRETE STEPS WITH #4 BAR 12" O.C.E.W. MAX.
2. 1.5" DIA. STAINLESS STEEL HANDRAIL AND POST WITH BRUSHED FINISH
3. ADJACENT CONCRETE PAVING WITH DOWELED EXPANSION JOINT
4. CONTRASTING TREAD INDICATOR
5. 1/2" RADIUS AT NOSING
6. CONCRETE HANDRAIL FOOTING OR THICKENED PAVING
7. CORE DRILL 2.5" DIA
8. NON-SHRINK GROUT, POR-ROCK OR EQUAL
9. 3.5" X 3.5' X 1/4" THICK STAINLESS STEEL ESCUTCHEON PLATE, EPOXY TO PAVING
10. 90% COMPACTED SUBGRADE
11. SEE POST CONNECTION ENLARGEMENT, TYP.




POST CONNECTION ENLARGEMENT

08 | CONCRETE STEPS AND HANDRAIL | 1"=1'-0"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| | 10-11-23 | 100% DD |

PROJECT TITLE:

# ALTADENA MAIN LIBRARY

600 E MARIPOSA STREET
ALTADENA, CA 91001

| | |
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| PROJECT NO. | 2111010 |
| DATE: | 10-11-23 |

SHEET TITLE:

## SITE CONSTRUCTION DETAILS

SCALE: AS SHOWN


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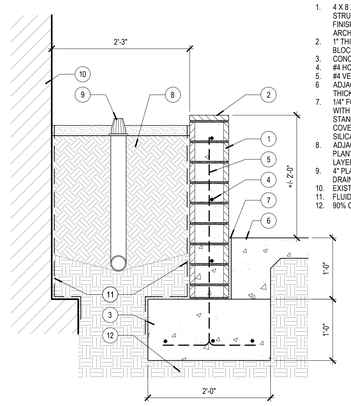
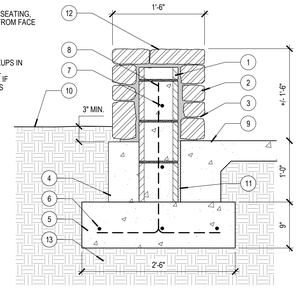



1. 4 X 8 X 16 STACKED CMU WALL, STRUCK HORZ. JOINT, COLOR AND FINISH TO MATCH PROPOSED ARCHITECTURE, GROUT SOLID
2. 1" THICK PRECAST CAP TO MATCH BLOCK
3. CONCRETE FOOTING
4. #4 HORZ. @ 12" O.C.
5. #4 VERT @ 18" O.C. ALT. HOOK
6. ADJACENT CONCRETE PAVING WITH THICKENED EDGE
7. 1/4" FOAM EXPANSION JOINT, FINISH WITH DYNAROL II-SG JOINT SEALANT, STANDARD #39 LIMESTONE COLOR, COVER THOROUGHLY WITH 60 MESH SILICA SAND WHILE WET
8. ADJACENT PLANTING AREA WITH PLANTER BACKFILL AND 3" MULCH LAYER
9. 4" PLANTER DRAIN, CONNECT TO SITE DRAINAGE
10. EXISTING BLOCK WALL
11. FLUID APPLIED WATERPROOFING
12. 90% COMPACTED SUBGRADE

05 CONCRETE BLOCK PLANTER WALL 1"=1'-0"

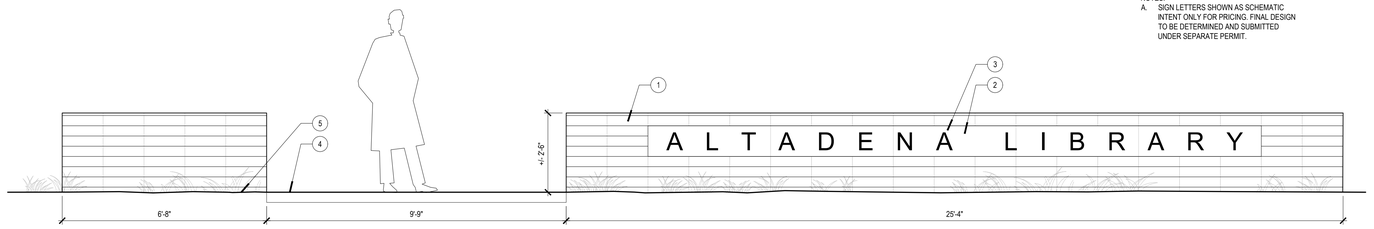
1. 8" WIDE CMU WALL GROUT SOLID
2. 4"-5" THICK COBBLE STONE VENEER
3. SET BACK MORTAR JOINT +/- 2" TO PROVIDE DRY STACK APPEARANCE, GAPS AT 1/2" MAX. BETWEEN STONES
4. HAUNCH
5. CONCRETE FOOTING
6. (3) #4 HORZ. CONT. THROUGH FOOTING
7. (2) #4 HORZ. @ 12" O.C.
8. #4 VERT @ 18" O.C. ALT. HOOK
9. ADJACENT CONCRETE PAVING WITH THICKENED EDGE
10. ADJACENT PLANTING AREA
11. 1/4" FOAM EXPANSION JOINT
12. SET SMOOTH STONES ON TOP FOR SEATING, EXTEND MORTAR JOINT TO +/- 1/4" FROM FACE OF STONE ACROSS TOP OF WALL
13. 90% COMPACTED SUBGRADE

NOTE:
A. PROVIDE UP TO TWO 4' LONG MOCKUPS IN PLACE FOR REVIEW AND APPROVAL
B. REPLACE CMU WITH CAST IN PLACE IF REQUIRED TO MEET RADII OF WALLS
C. STONE TO BE SELECTED




1. 4 X 8 X 16 STACKED CMU WALL, STRUCK HORZ. JOINT, COLOR AND FINISH TO MATCH PROPOSED ARCHITECTURE, GROUT SOLID
2. 12" X 48" X 2" THICK PRECAST VENEER PANELS, INSET 1" FROM FACE OF BLOCK
3. 8" TALL INSET STAINLESS STEEL LETTERS
4. CONCRETE PAVING
5. FINISH GRADE

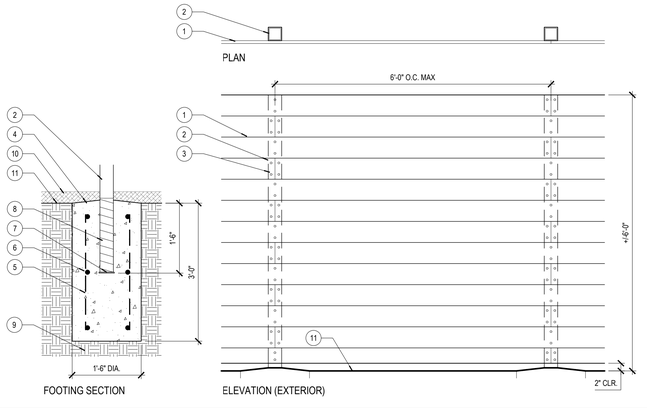
NOTES:
A. SIGN LETTERS SHOWN AS SCHEMATIC INTENT ONLY FOR PRICING. FINAL DESIGN TO BE DETERMINED AND SUBMITTED UNDER SEPARATE PERMIT.



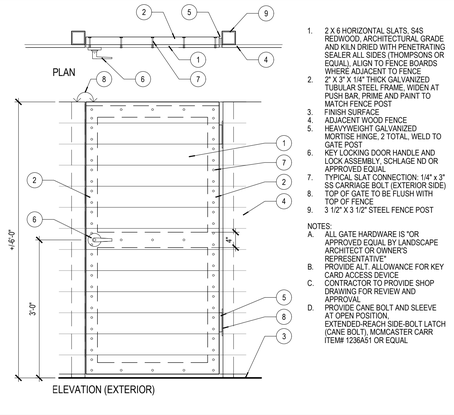

09 ENTRY SIGN WALL- ELEVATION ½"=1'-0"

1. 2 X 6 HORIZONTAL SLATS, S4S REDWOOD, ARCHITECTURAL GRADE AND KILN DRIED WITH PENETRATING SEALER (ALL SIDES)
2. 3 1/2" X 3 1/2" X 1/4" THICK GALVANIZED TUBULAR STEEL POST WITH WELDED FLUSH CAP. 1 COAT EXTERIOR PRIMER WITH 2 COATS EXTERIOR SATIN BLACK PAINT
3. SIMPSON STRONG-DRIVE WOOD-TO-STEEL SCREW OR APPROVED EQUAL. 2 PER BOARD CONNECTION
4. CONCRETE FOOTING, SLOPE TOP OF FOOTING AWAY FROM POST PROVIDE FINISH AT EXPOSED SURFACE TO MATCH CONCRETE PAVING P1
5. (4) #4 VERT
6. (3) #4 TIES
7. 4" SQ. X 1/8" THICK GALV STEEL PLATE WELDED TO POST BOTTOM
8. POST AND BASE PLATE TO BE WRAPPED WITH TAPECOAT PROTECTION TAPE TO 1/2" ABOVE FOOTING
9. 90% COMPACTED SUBGRADE
10. 3" MULCH LAYER
11. FINISH GRADE

NOTES:
A. LOWER TOP OF FOOTING AND LENGTHEN POST AS REQUIRED TO ALLOW FOR PAVING CONDITIONS




10 WOOD FENCE ¾"=1'-0"




1. 2 X 6 HORIZONTAL SLATS, S4S REDWOOD, ARCHITECTURAL GRADE AND KILN DRIED WITH PENETRATING SEALER ALL SIDES (THOMPSONS OR EQUAL). ALIGN TO FENCE BOARDS WHERE ADJACENT TO FENCE
2. 2" X 3" X 1/4" THICK GALVANIZED TUBULAR STEEL FRAME, WIDEN AT PUSH BAR, PRIME AND PAINT TO MATCH FENCE POST
3. FINISH SURFACE
4. ADJACENT WOOD FENCE
5. HEAVYWEIGHT GALVANIZED MORTISE HINGE, 2 TOTAL, WELD TO GATE POST
6. KEY LOCKING DOOR HANDLE AND LOCK ASSEMBLY, SCHLAGE ND OR APPROVED EQUAL
7. TYPICAL SLAT CONNECTION: 1/4" x 3" SS CARRIAGE BOLT (EXTERIOR SIDE)
8. TOP OF GATE TO BE FLUSH WITH TOP OF FENCE
9. 3 1/2" X 3 1/2" STEEL FENCE POST

NOTES:
A. ALL GATE HARDWARE IS "OR APPROVED EQUAL BY LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE"
B. PROVIDE ALT. ALLOWANCE FOR KEY CARD ACCESS DEVICE
C. CONTRACTOR TO PROVIDE SHOP DRAWING FOR REVIEW AND APPROVAL
D. PROVIDE CANE BOLT AND SLEEVE AT OPEN POSITION. EXTENDED-REACH SIDE-BOLT LATCH (CANE BOLT), MCMCASTER CARR ITEM# 1236A1 OR EQUAL

03 WOOD GATE ¾"=1'-0"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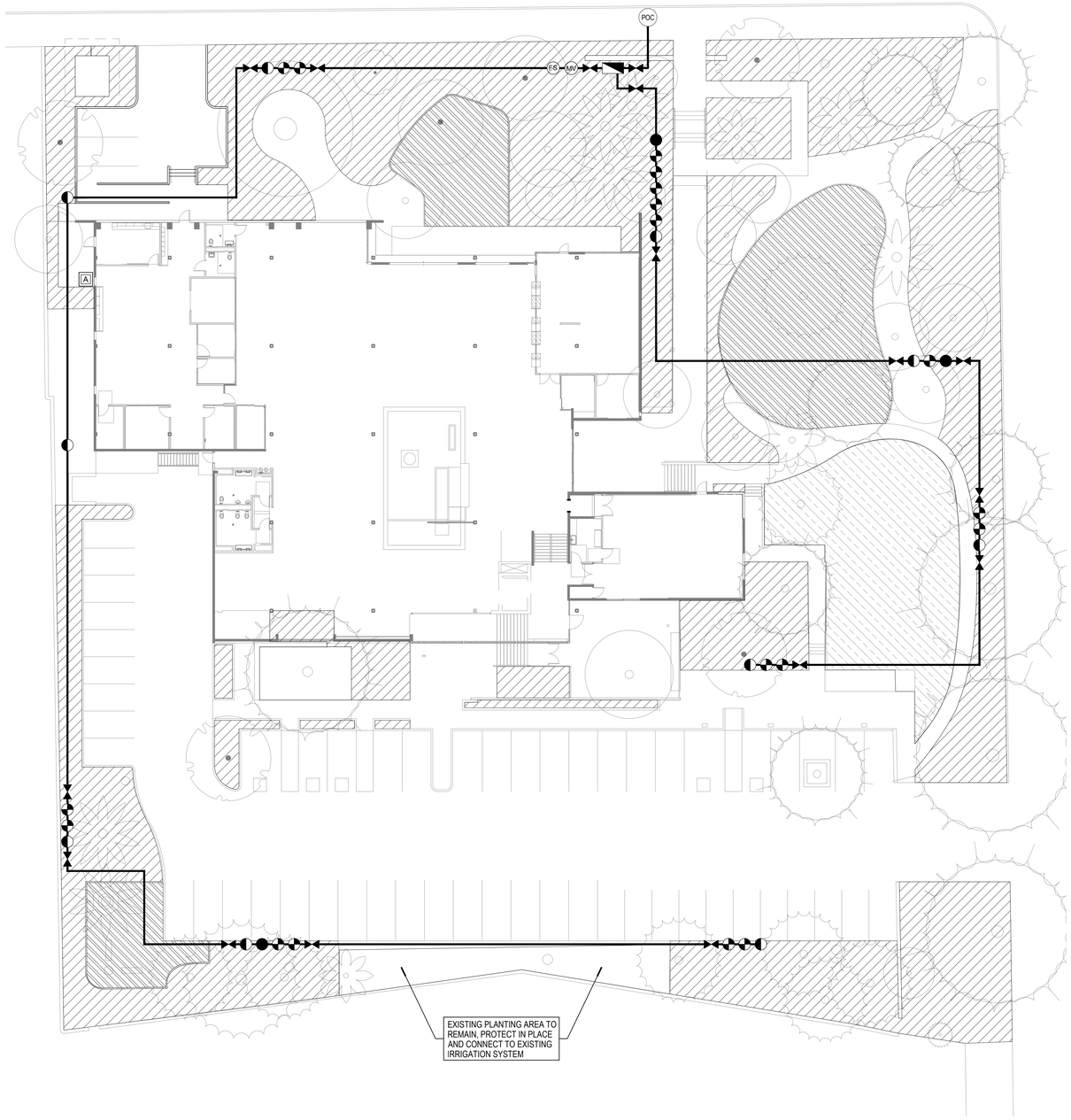


## IRRIGATION LEGEND

| SYMBOL | MANF. | MODEL | |
|---|---|---|---|
| | RAINBIRD | R-VAN HIGH EFFICIENCY ROTOR NOZZLE ON 1806 PRS 6" POP-UP HEIGHT SPRAY BODY | QTY BASE BID: 4,621 SF<br>QTY ADD ALT: 4,073 SF |
| | NETAFIM | IRRIGATION DRIPLINE AT SHRUBS AND GROUNDCOVER AREAS, TECHLINE CV DRIPLINE TLCV 6-18, ROWS AT 12"-18" | QTY BASE BID: 20,899 SF<br>QTY ADD ALT: 19,169 SF |
| | NETAFIM | NEW DRIPLINE AT EXISTING SHRUBS, ROWS AT 12"-18", 6" CLEAR MIN. FROM EDGE OF EXSITING PLANTING PROTECTED IN PLACE | 2,500 SF |
| MV | BUCKNER SUPERIOR | 3100 NORMALLY OPEN MASTER VALVE | |
| FS | HUNTER | FLOW-CLIK FLOW SENSOR | |
| | WATTS | 719-QT BACKFLOW PREVENTER IN WWM ENCLOSURE | |
| | NIBCO | T-133 BRONZE GATE VALVE | |
| | RAINBIRD | 100 - EFB-CP WITH PRF-100-RBY REMOTE CONTROL DRIP VALVE KIT | |
| | RAINBIRD | 100 - EFB-CP WITH QKCHK-100 REMOTE CONTROL VALVE KIT | |
| | RAINBIRD | 44-LRC - 1" QUICK COUPLER VALVE | |
| A | HUNTER | IC-600-SS I-CORE IRRIGATION CONTROLLER | |
| | | MAINLINE (1"-2" SIZE) | |

REFER TO SHEET L001 FOR PROTECTION OF ALL EXISTING TREES TO REMAIN

0' 8' 16' 32'
SCALE: 1" = 16'-0"

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**IRRIGATION PLAN**

SCALE: AS SHOWN

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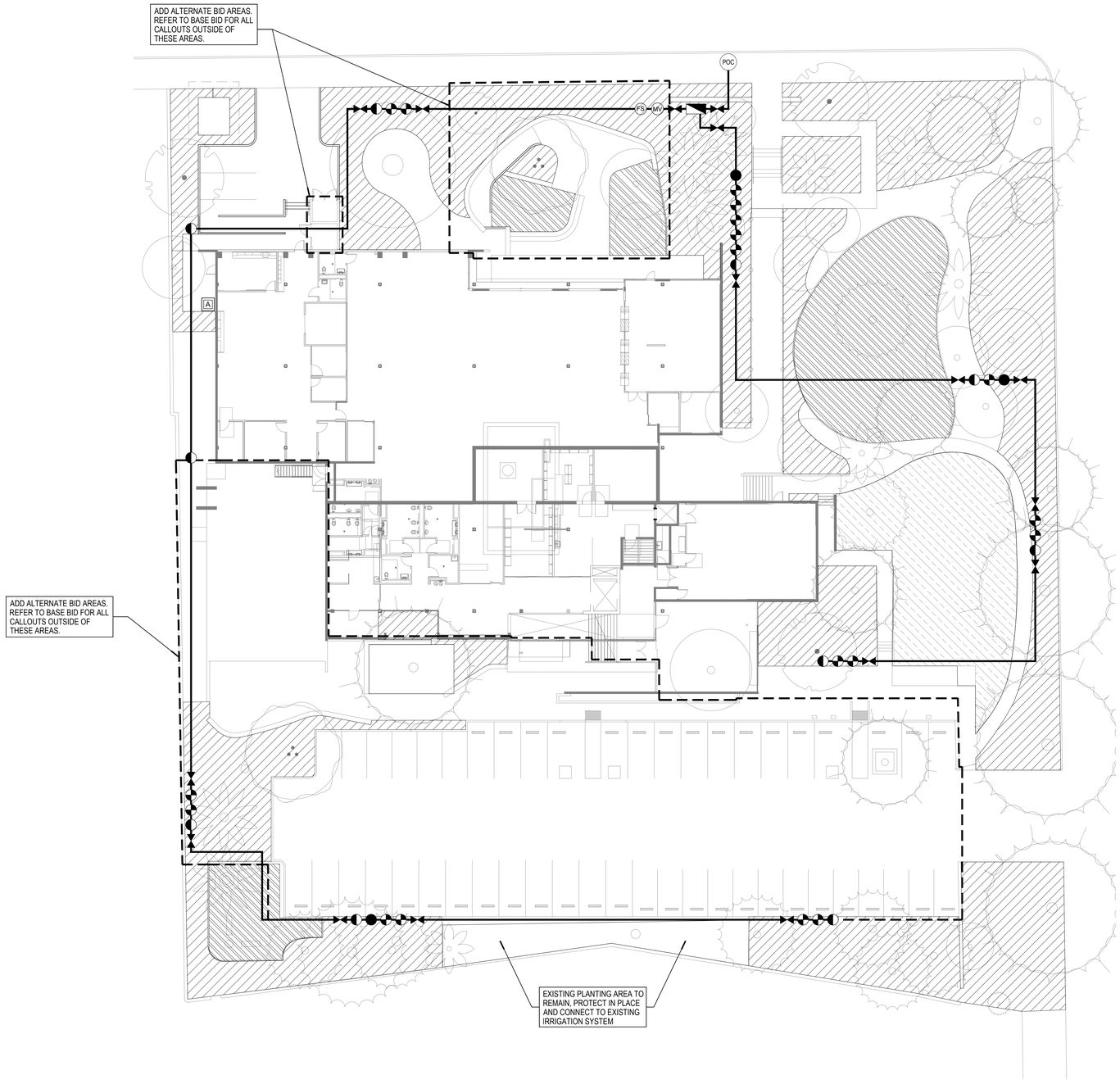


## IRRIGATION LEGEND

| SYMBOL | MANF. | MODEL | |
|---|---|---|---|
| | RAINBIRD | R-VAN HIGH EFFICIENCY ROTOR NOZZLE ON 1806 PRS 6" POP-UP HEIGHT SPRAY BODY | QTY BASE BID: 4,621 SF |
| | | | QTY ADD ALT: 4,073 SF |
| | NETAFIM | IRRIGATION DRIPLINE AT SHRUBS AND GROUNDCOVER AREAS, TECHLINE CV DRIPLINE TLCV 6-18, ROWS AT 12"-18" | QTY BASE BID: 20,899 SF |
| | | | QTY ADD ALT: 19,169 SF |
| | NETAFIM | NEW DRIPLINE AT EXISTING SHRUBS, ROWS AT 12"-18", 6" CLEAR MIN. FROM EDGE OF EXSITING PLANTING PROTECTED IN PLACE | 2,500 SF |
| MV | BUCKNER SUPERIOR | 3100 NORMALLY OPEN MASTER VALVE | |
| FS | HUNTER | FLOW-CLIK FLOW SENSOR | |
| | WATTS | 719-QT BACKFLOW PREVENTER IN WWM ENCLOSURE | |
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| | RAINBIRD | 100 - EFB-CP WITH PRF-100-RBY REMOTE CONTROL DRIP VALVE KIT | |
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| | RAINBIRD | 44-LRC - 1" QUICK COUPLER VALVE | |
| A | HUNTER | IC-600-SS I-CORE IRRIGATION CONTROLLER | |
| | | MAINLINE (1"-2" SIZE) | |

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## IRRIGATION PLAN- ADD ALT

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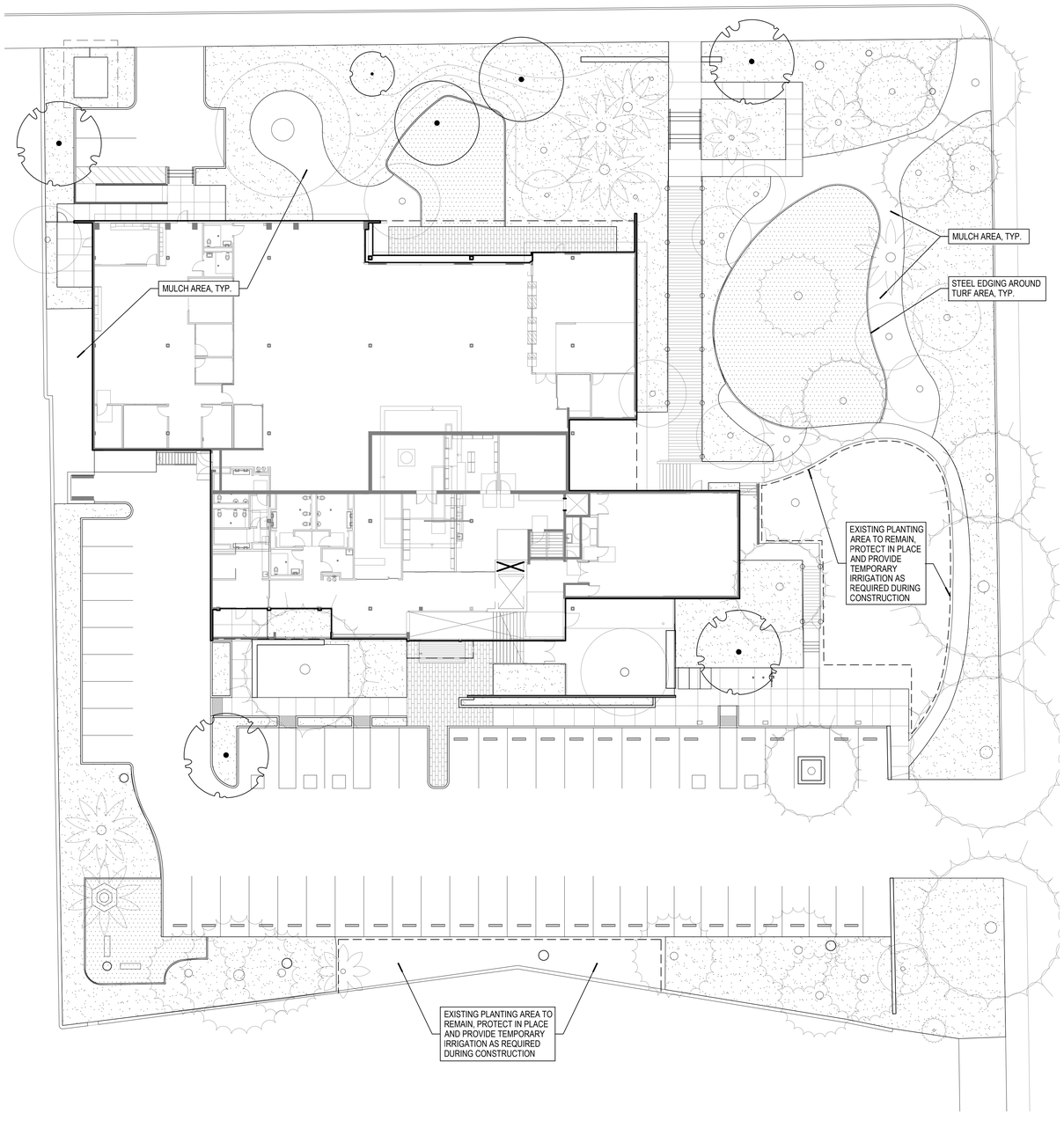


REFER TO SHEET L001 FOR PROTECTION OF ALL EXISTING TREES TO REMAIN

## TREE LEGEND

| SYMBOL | BOTANIC NAME<br>COMMON NAME | SIZE | QTY<br>BASE BID | QTY<br>ADD ALT |
|---|---|---|---|---|
| | ARBUTUS 'MARINA'<br>MARINA MADRONE | 48" BOX<br>STD.<br>FORM | 1 | 1 |
| | QUERCUS AGRIFOLIA<br>COAST LIVE OAK | 72" BOX<br>SLENDER<br>MULTI | 0 | 2 |
| | QUERCUS ILEX<br>HOLLY OAK | 60" BOX,<br>STD. FORM<br>7' CLR<br>TRUNK | 3 | 4 |
| | PLATANUS RACEMOSA<br>CALIFORNIA SYCAMORE | 24" BOX<br>STD.<br>FORM | 2 | 0 |
| | | | EXISTING TREE TO REMAIN, PROTECT IN PLACE, REFER TO SHEET L002 | |

## SHRUB LEGEND

| | | |
|---|---|---|
| | SHRUB AND GROUNDCOVER PLANTING<br>50% 1 GALLON @ 24" SPACING<br>40% 5 GALLON @ 4' SPACING<br>10% 15 GALLON @ 8' SPACING | QTY BASE BID:<br>20,899 SF<br>QTY ADD ALT:<br>19,169 SF |

PLANT PALETTE- NATIVE AND ADAPTED SPECIES

ARCTOSTAPHYLOS 'HOWARD MCMINN'
HOWARD MCMINN MANZANITA

BACCHARIS PILULARIS 'PIGEON POINT'
DWARF COYOTE BRUSH

BERBERIS AQUIFOLIUM VAR. REPENS
CREEPING BARBERRY

CAREX TUMULICOLA
BERKELEY SEDGE

EPILOBIUM CANUM
CALIFORNIA FUCHSIA

FESTUCA CALIFORNICA
CALIFORNIA FESCUE

FRANGULA CALIFORNICA 'EVE CASE'
EVE CASE COFFEEBERRY

HETEROMELES ARBUTIFOLIA
TOYON

RIBES VIBURNIFOLIUM
CATALINA CURRANT

SALVIA ALPINA
WHITE SAGE

SALVIA LEUCOPHYLLA
PURPLE SAGE

SALVIA SPATHACEA
HUMMINGBIRD SAGE

SPHAERALCEA AMBIGUA
DESERT MALLOW

TRICHOSTEMA LANATUM
WOOLLY BLUE CURLS

WESTRINGIA FRUTICOSA 'MORNING LIGHT'
MORNING LIGHT COAST ROSEMARY

PLANT PALETTE- HISTORIC CHARACTER

AUCUBA JAPONICA
JAPANESE LAUREL

CAMELLIA JAPONICA
JAPANESE CAMELLIA

CYCAS REVOLUTA
SAGO PALM

JUNIPERUS × PFITZERIANA 'SEA GREEN'
SEA GREEN JUNIPER

LIGUSTRUM JAPONICUM
JAPANESE PRIVET

OPHIOPOGON JAPONICUS
MONDO GRASS

PITTOSPORUM TOBIRA
JAPANESE PITTOSPORUM

YUCCA GLORIOSA
SPANISH DAGGER YUCCA

## TURF LEGEND

| | | |
|---|---|---|
| | TURF (SPECIES TBD)<br>SODDED | QTY BASE BID:<br>4,621 SF<br>QTY ADD ALT:<br>4,073 SF |

## LANDSCAPE MATERIAL LEGEND

| SYMBOL | ITEM |
|---|---|
| | STEEL EDGING: 3/16" x 4" STEEL EDGING W/ 16" STEEL ANCHORING STAKES 6' O.C. MAX, BLACK POWDERCOAT COLOR, AVAILABLE THROUGH JD RUSSEL COMPANY 800-888-7425. INSTALL PER MANUFACTURER'S RECOMMENDATION. |

0' 8' 16' 32'
SCALE: 1" = 16'-0"

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**PLANTING PLAN**

SCALE: AS SHOWN

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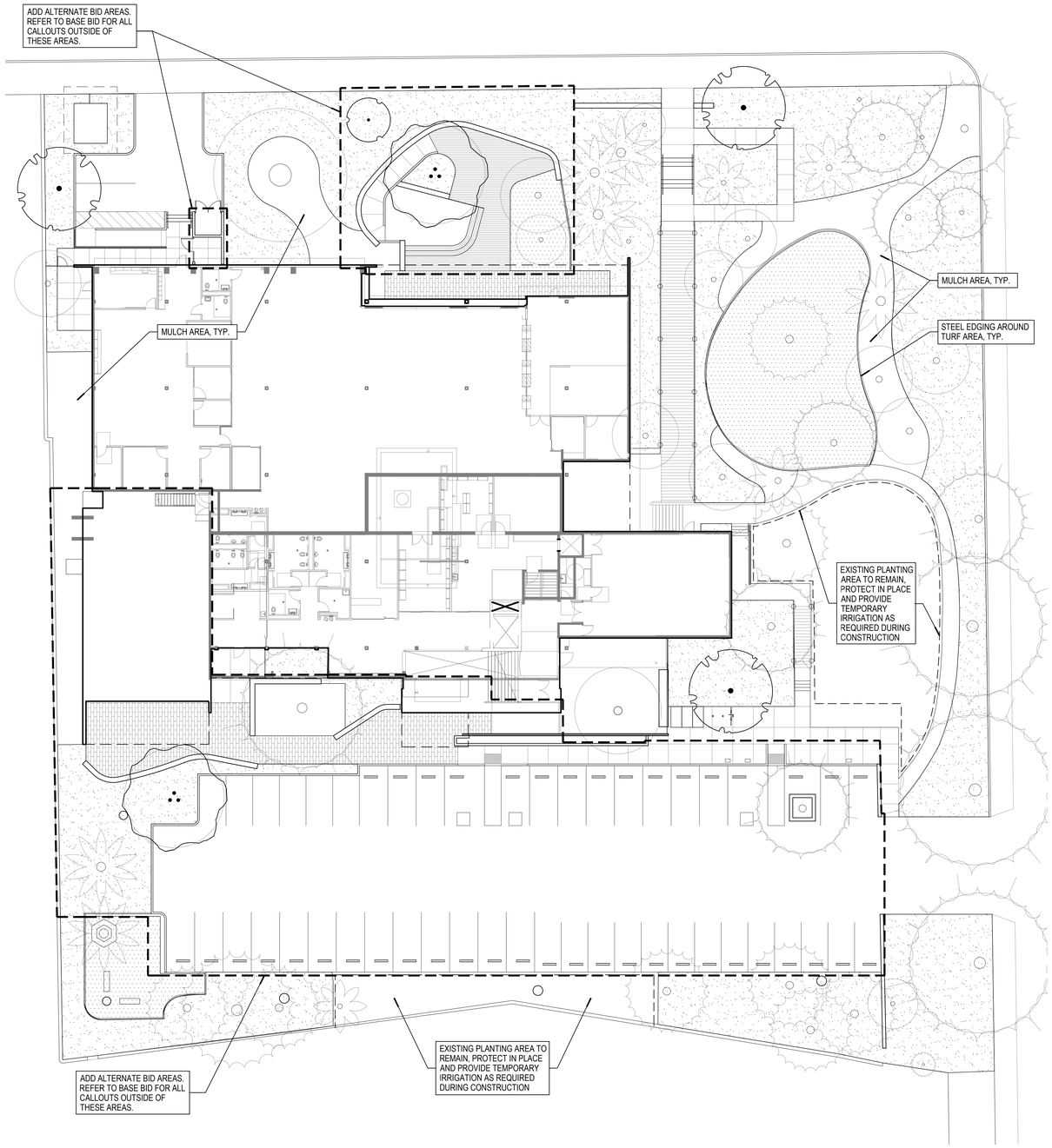


REFER TO SHEET L001 FOR PROTECTION OF ALL EXISTING TREES TO REMAIN

## TREE LEGEND

| SYMBOL | BOTANIC NAME<br>COMMON NAME | SIZE | QTY<br>BASE BID | QTY<br>ADD ALT |
|---|---|---|---|---|
| | ARBUTUS 'MARINA'<br>MARINA MADRONE | 48" BOX<br>STD.<br>FORM | 1 | 1 |
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| | QUERCUS ILEX<br>HOLLY OAK | 60" BOX,<br>STD. FORM<br>7' CLR<br>TRUNK | 3 | 4 |
| | PLATANUS RACEMOSA<br>CALIFORNIA SYCAMORE | 24" BOX<br>STD.<br>FORM | 2 | 0 |
| | | | EXISTING TREE TO REMAIN, PROTECT IN PLACE, REFER TO SHEET L002 | |

## SHRUB LEGEND

| | | |
|---|---|---|
| | SHRUB AND GROUNDCOVER PLANTING<br>50% 1 GALLON @ 24" SPACING<br>40% 5 GALLON @ 4' SPACING<br>10% 15 GALLON @ 8' SPACING | QTY BASE BID:<br>20,899 SF<br>QTY ADD ALT:<br>19,169 SF |

PLANT PALETTE- NATIVE AND ADAPTED SPECIES

ARCTOSTAPHYLOS 'HOWARD MCMINN'
HOWARD MCMINN MANZANITA

BACCHARIS PILULARIS 'PIGEON POINT'
DWARF COYOTE BRUSH

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CREEPING BARBERRY

CAREX TUMULICOLA
BERKELEY SEDGE

EPILOBIUM CANUM
CALIFORNIA FUCHSIA

FESTUCA CALIFORNICA
CALIFORNIA FESCUE

FRANGULA CALIFORNICA 'EVE CASE'
EVE CASE COFFEEBERRY

HETEROMELES ARBUTIFOLIA
TOYON

RIBES VIBURNIFOLIUM
CATALINA CURRANT

SALVIA ALPINA
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SEA GREEN JUNIPER

LIGUSTRUM JAPONICUM
JAPANESE PRIVET

OPHIOPOGON JAPONICUS
MONDO GRASS

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|---|---|---|
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## LANDSCAPE MATERIAL LEGEND

| SYMBOL | ITEM |
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0' 8' 16' 32'
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## PLANTING PLAN- ADD ALT

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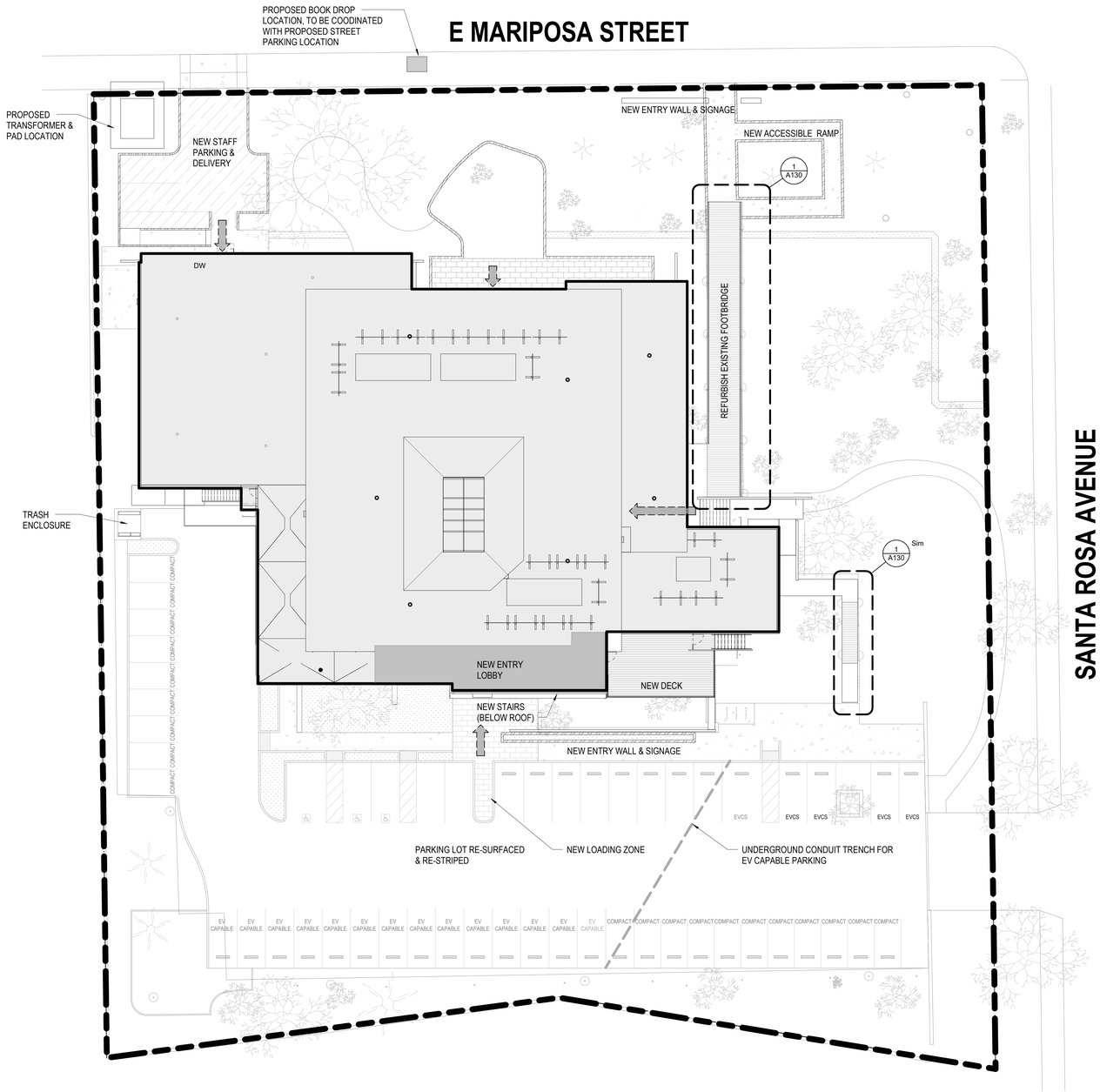


1 PROPOSED SITE PLAN
1/16" = 1'-0"

## SHEET NOTES

A. SEE CIVIL DRAWINGS FOR SITE WORK AND SITE DEMOLITION WORK, INCLUDING TREE REMOVAL

B. SEE LANDSCAPE DRAWINGS FOR HARDSCAPING AND LANDSCAPING INFORMATION

C. SEE ELECTRICAL DRAWINGS FOR ELECTRICAL RELATED SITE UTILITY WORK AND SITE LIGHTING

D. ACCESSIBLE PATH OF TRAVEL AS INDICATED ON THE PLAN IS A BARRIER-FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES NOT EXCEEDING 1/4" MAX. AND AT LEAST 48" IN WIDTH. SURFACE IS STABLE, FIRM, AND SLIP RESISTANT. CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5%, OR RAMP LESS THAN 1:12 UNLESS OTHERWISE INDICATED. ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM, AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80". ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL

E. ALL PAVEMENT ALONG PATH OF TRAVEL IS CONCRETE.

F. REFER TO SHEET A600 FOR GATE INFORMATION

## KEYNOTES

## PARKING SPACES

| | | EXISTING BUILDING | PROPOSED BUILDING ADDITION | | | TOTAL |
|---|---|---|---|---|---|---|
| | | | ENTRY LOBBY | COMMUNITY RM RENOVATION | OTHER | |
| AREA | MAIN LEVEL | 17,337 | - | - | - | 17,337 |
| | LOWER LEVEL | 4,883 | 632 | - | - | 5,515 |
| | TOTAL | 22,220 | 632 | - | - | 22,852 |
| PARKING | PARKING RATIO | 1:444.4 | 1:250 | 1 per 3 occupants | - | 1:444.4 |
| | TOTAL | 50 | 2.5 | - | - | **52.5** |

| | |
|---|---|
| **TOTAL NO. OF PARKING SPACES REQUIRED** | **53** |
| **TOTAL NO. OF PARKING SPACES PROVIDED** | **55** |
| CBC TABLE 11B-208.2<br>MINIMUM NUMBER OF REQUIRED ACCESSIBLE PARKING SPACES (51-75) 3 | PROVIDED 3 ** |
| CODE OF ORDINANCES LA COUNTY TABLE 5.106.3<br>NUMBER OF REQUIRED EV CAPABLE SPACES (51-75) 19 | PROVIDED 19 |
| CODE OF ORDINANCES LA COUNTY TABLE 5.106.3<br>NUMBER OF REQUIRED EV CAPABLE SPACES PROVIDED WITH EVCS (51-75) 5 | PROVIDED 5 |
| CBC TABLE 11B-228.3.2.1<br>MINIMUM NUMBER OF EVCS REQUIRED SPACES (5 TO 25)<br>VAN ACCESSIBLE - 1<br>STANDARD ACCESSIBLE - 1<br>AMBULATORY - 0 | PROVIDED VAN ACCESSIBLE - 1<br>STANDARD ACCESSIBLE - 1 |

** *CBC 11B-208.2.4 VAN PARKING SPACES - 1 PROVIDED*
*ONE SPACE OUT OF SIX ACCESSIBLE SPACES PROVIDED SHALL BE A VAN PARKING SPACE COMPLYING WITH SECTION 11B-502.*

## BICYCLE PARKING

CODE OF ORDINAMCES LA COUNTY BICYCLE PARKING. 22.112.100
SHORT TERM BICYCLE PARKING SHALL BE PROVIDED AT A RATE OF 1 SPACE FOR EVERY 50 INTENDED VISITORS BASED ON OCCUPANT LOAD OF THE LARGEST ASSEMBLY AREA WITHIN THE FACILITY, AND 1 LONG TERM SPACE FOR EVERY 100 INTENDED VISITORS BASED ON OCCUPANT LOAD OF THE LARGEST ASSEMBLY AREA WITHIN THE FACILITY.
COMMUNITY ROOM WITH LARGEST ASSEMBLY AREA HAS 231 OCCUPANTS:
- 5 SHORT TERM SPACES PROVIDED
- 3 LONG TERM SPACES PROVIDED

## LEGEND

- PROPERTY LINE
- BUILDING FOOTPRINT - RENOVATION SCOPE
- BUILDING FOOTPRINT - ADDITION SCOPE
- PATH, CHANGE IN LANDSCAPE OR HARDSCAPE
- STEPS/CHANGE IN LEVEL
- PARTIAL HEIGHT WALL
- PEDESTRIAN CONCRETE PAVING, SLD
- PRECAST CONCRETE PAVERS , SLD
- DECKING
- WHEEL STOP
- (E) ELECTRICAL EASEMENT
- BUILDING ENTRY

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SHEET TITLE:

**SITE PLAN**

SCALE: As indicated

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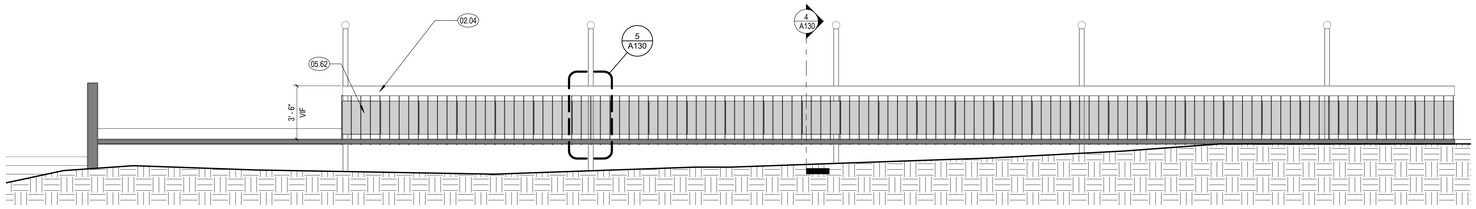
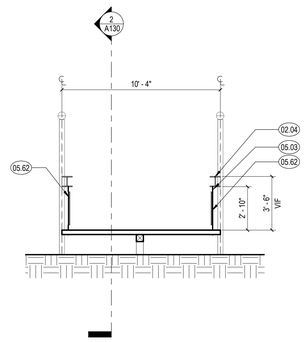
## KEYNOTES

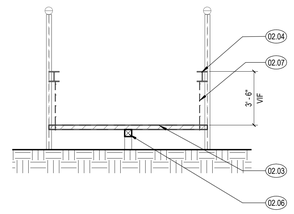
02.03 (E) WOOD 4X4 DECKING TO BE REPLACED WITH COMPOSITE WOOD DECKING IN KIND
02.04 (E) 8 WF 17 TO REMAIN IN PLACE. PATCH AND REPAIR AS REQ'D
02.06 (E) BEAM TO BE REPLACED.
02.07 (E) THREADED RODS TO BE DEMO'D AND REPLACED BY S.S. THREADED RODS
05.03 3/8" S.S. THREADED ROD TO REPLACE EXISTING.
05.62 DECORATIVE METAL MESH GUARDRAIL @ 26" HT.



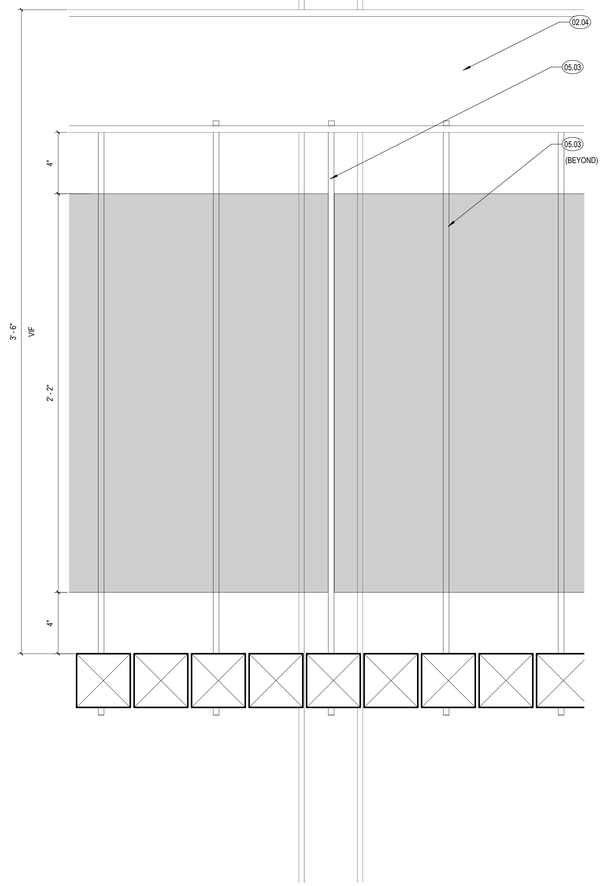

2 FOOTBRIDGE NORTH-SOUTH SECTION
1/4" = 1'-0"



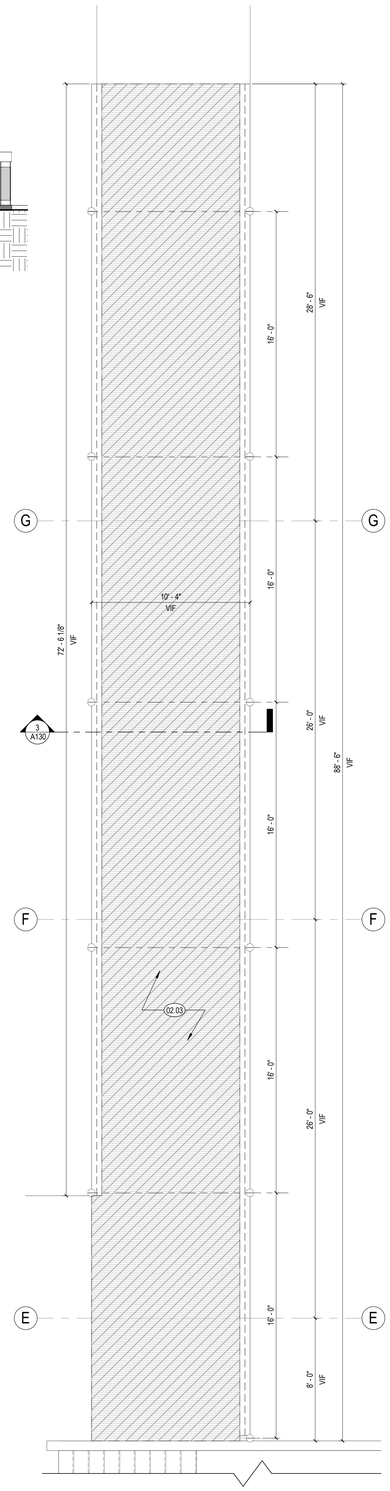

4 FOOTBRIDGE EAST - WEST SECTION
1/4" = 1'-0"




3 FOOTBRIDGE EAST - WEST DEMO SECTION
1/4" = 1'-0"




5 FOOTBRIDGE NORTH-SOUTH SECTION - Callout 1
3" = 1'-0"




1 ENLARGED FOOTBRIDGE DEMO PLAN
1/4" = 1'-0"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## SITE DETAILS

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2 DEMOLITION FLOOR PLAN - LOWER LEVEL
1/8" = 1'-0"

## SHEET NOTES

1. EXISTING CONDITIONS SHOWN ARE FROM AVAILABLE RECORD DRAWINGS AND VISUAL FIELD SURVEYS. THE CONTRACTOR SHALL MAKE A DETAILED SURVEY OF THE EXISTING FIELD CONDITIONS AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCY FOUND BETWEEN THE DRAWINGS AND ACTUAL FIELD CONDITIONS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK IN QUESTION.
2. THE DEMOLITION PLAN DOES NOT ACKNOWLEDGE HAZARDOUS MATERIALS AND DOES NOT PPROVE THE DEMOLITION AND REMOVAL OF HAZARDOUS MATERIALS. ALL HAZARDOUS MATERIALS DISCOVERED DURING THE FIELD INSPECTION AND DEMOLITION SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER. ALL DEMOLITION AND REMOVAL OF HAZARDOUS MATERIALS SHALL BE IN CONFORMANCE WITH ALL LOCAL AND STATE CODES. ALL PERMITS AND APPROVALS SHALL BE OBTAINED AND COPIES PROVIDED TO THE OWNER FOR RECORD.
3. WHIERE WALL FINISHES HAVE BEEN REMOVED AND EXISTING GYPSUM BOARD HAS BEEN DAMAGED, REPLACE AREA WITH NEW GYPSUM BOARD AS APPROPRIATE FOR NEW FINISHES AS SCHEDULED
4. REMOVE ALL (E) INTERIOR PARTITIONS AND DOORS, UNO.
5. REMOVE ALL PLUMBING FIXTURES, ACCESSORIES, AND EQUIPMENT, UNO.
6. SEE CIVIL DRAWINGS FOR ALL SITE DEMOLITION WORK.
7. SEE STRUCTURAL DRAWINGS FOR ALL STRUCTURAL DEMOLITION WORK.
8. SEE MECHANICAL DRAWINGS FOR ALL MECHANICAL DEMOLITION WORK.
9. SEE ELECTRICAL DRAWINGS FOR ALL ELECTRICAL DEMOLITION WORK.
10. REMOVE ALL (E) RAILINGS, UNO.
11. SEE EXTERIOR ELEVATIONS, WALL SECTIONS, AND DETAILS FOR EXTENT OF EXTERIOR ENVELOPE DEMOLITION.
12. ALL FLOORING AT RESTROOMS SHALL BE REMOVED ALONG WITH RESPECTIVE MORTAR BED DOWN TO EXISTING RECESSED SLAB.
13. SEE A20S & A201S FOR SLAB DEPRESSIONS.
14. REMOVE AND SALVAGE ALL EXISTING PROJECTOR SCREENS, PROJECTORS, MONITORS AND COORDINATE STORAGE WITH DISTRICT
15. REMOVE EXISTING SHELVING AND CONFIRM SALVAGE MATERIALS PRIOR TO DEMOLITION
16. REMOVE (E) MILLWORK AND CASEWORK
17. REMOVE (E) FURNITURE AND CONFIRM ANY SALVAGE ITEMS WITH DISTRICT PRIOR TO REMOVAL
18. REMOVE (E) SIGNAGE AND SEE SPECIFICATIONS FOR PATCHPACK REQUIREMENTS

## KEYNOTES

01.32 DEMOLISH (E) ELEVATOR IN ITS ENTIRETY
01.33 DEMOLISH (E) CONCRETE STAIR

## LEGEND

(E) WALL TO BE DEMOLISHED
DEMOLISHED WALL IS NON-STRUCTURAL / NON-BEARING.

(E) FULL HT. WALL, TO REMAIN

(E) REGION TO BE DEMOLISHED, SEE KEYNOTE FOR DESCRIPTION OF ELEMENTS TO BE DEMOLISHED.

EXISTING DOOR TO BE DEMOLISHED

(E) ITEM TO BE DEMOLISHED

(E) GLAZING TO BE DEMOLISHED AND REPLACED IN KIND (TYP). REFER TO FLOOR PLANS FOR ADDITIONAL INFORAMTION.


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## DEMO FLOOR PLAN - LOWER LEVEL

SCALE: 1/8" = 1'-0"


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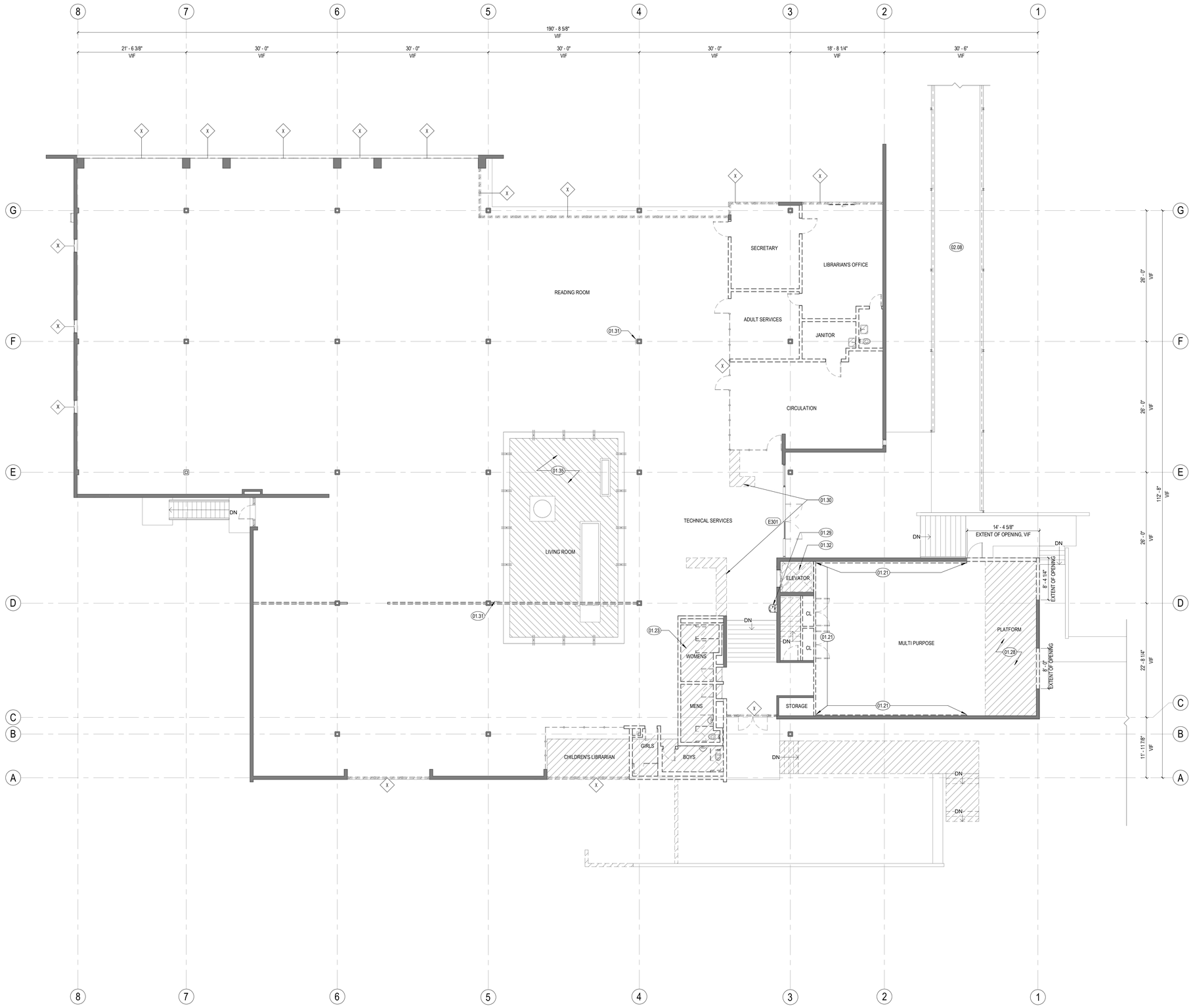


1 DEMOLITION FLOOR PLAN - MAIN LEVEL
1/8" = 1'-0"

## SHEET NOTES

1. EXISTING CONDITIONS SHOWN ARE FROM AVAILABLE RECORD DRAWINGS AND VISUAL FIELD SURVEYS. THE CONTRACTOR SHALL MAKE A DETAILED SURVEY OF THE EXISTING FIELD CONDITIONS AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCY FOUND BETWEEN THE DRAWINGS AND ACTUAL FIELD CONDITIONS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK IN QUESTION.
2. THE DEMOLITION PLAN DOES NOT ACKNOWLEDGE HAZARDOUS MATERIALS AND DOES NOT PPROVE THE DEMOLITION AND REMOVAL OF HAZARDOUS MATERIALS. ALL HAZARDOUS MATERIALS DISCOVERED DURING THE FIELD INSPECTION AND DEMOLITION SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER. ALL DEMOLITION AND REMOVAL OF HAZARDOUS MATERIALS SHALL BE IN CONFORMANCE WITH ALL LOCAL AND STATE CODES. ALL PERMITS AND APPROVALS SHALL BE OBTAINED AND COPIES PROVIDED TO THE OWNER FOR RECORD.
3. WHERE WALL FINISHES HAVE BEEN REMOVED AND EXISTING GYPSUM BOARD HAS BEEN DAMAGED, REPLACE AREA WITH NEW GYPSUM BOARD AS APPROPRIATE FOR NEW FINISHES AS SCHEDULED
4. REMOVE ALL (E) INTERIOR PARTITIONS AND DOORS, UNO.
5. REMOVE ALL PLUMBING FIXTURES, ACCESSORIES, AND EQUIPMENT, UNO.
6. SEE CIVIL DRAWINGS FOR ALL SITE DEMOLITION WORK.
7. SEE STRUCTURAL DRAWINGS FOR ALL STRUCTURAL DEMOLITION WORK.
8. SEE MECHANICAL DRAWINGS FOR ALL MECHANICAL DEMOLITION WORK.
9. SEE ELECTRICAL DRAWINGS FOR ALL ELECTRICAL DEMOLITION WORK
10. REMOVE ALL (E) RAILINGS, UNO.
11. SEE EXTERIOR ELEVATIONS, WALL SECTIONS, AND DETAILS FOR EXTENT OF EXTERIOR ENVELOPE DEMOLITION.
12. ALL FLOORING AT RESTROOMS SHALL BE REMOVED ALONG WITH RESPECTIVE MORTAR BED DOWN TO EXISTING RECESSED SLAB.
13. SEE A2005 & A2015 FOR SLAB DEPRESSIONS.
14. REMOVE AND SALVAGE ALL EXISTING PROJECTOR SCREENS, PROJECTORS, MONITORS AND COORDINATE STORAGE WITH DISTRICT
15. REMOVE EXISTING SHELVING AND CONFIRM SALVAGE MATERIALS PRIOR TO DEMOLITION
16. REMOVE (E) MILLWORK AND CASEWORK
17. REMOVE (E) FURNITURE AND CONFIRM ANY SALVAGE ITEMS WITH DISTRICT PRIOR TO REMOVAL
18. REMOVE (E) SIGNAGE AND SEE SPECIFICATIONS FOR PATCHPACK REQUIREMENTS

## KEYNOTES

01.21 DEMOLISH (E) WALL FINISHES.
01.23 DEMOLISH PORTION OF (E) CONCRETE SLAB.
01.28 DEMOLISH (E) PLATFORM
01.29 DEMOLISH (E) WATER FOUNTAIN
01.30 DEMOLISH (E) MILLWORK. REMOVE WOOD TILES FOR REUSE. SEE SHEET A293 FOR ADDITIONAL INFORMATION.
01.31 (E) ELECTRICAL WALKER DUCTS TO REMAIN. DEMO (E) ELECTRICAL CONDUITS ALONG COLUMN AND REROUTE VIA IN-FLOOR DUCT SYSTEM TO ELECTRICAL PANEL. SEE TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
01.32 DEMOLISH (E) ELEVATOR IN ITS ENTIRETY
01.35 REMOVE (E) FLOOR TILE & ADHESIVE IN ITS ENTIRETY. PREP TO RECEIVE NEW FLOOR FINISHES. SEE FINISH PLANS FOR ADDITIONAL INFORMATION.
02.08 REFURBISH (E) BRIDGE, SEE A130 FOR DETAILS.

## LEGEND

(E) WALL TO BE DEMOLISHED
DEMOLISHED WALL IS NON-STRUCTURAL / NON-BEARING,

(E) FULL HT. WALL, TO REMAIN

(E) REGION TO BE DEMOLISHED, SEE KEYNOTE FOR DESCRIPTION OF ELEMENTS TO BE DEMOLISHED.

EXISTING DOOR TO BE DEMOLISHED

(E) ITEM TO BE DEMOLISHED

(E) GLAZING TO BE DEMOLISHED AND REPLACED IN KIND (TYP). REFER TO FLOOR PLANS FOR ADDITIONAL INFORAMTION.

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## DEMO FLOOR PLAN - MAIN LEVEL

SCALE: 1/8" = 1'-0"

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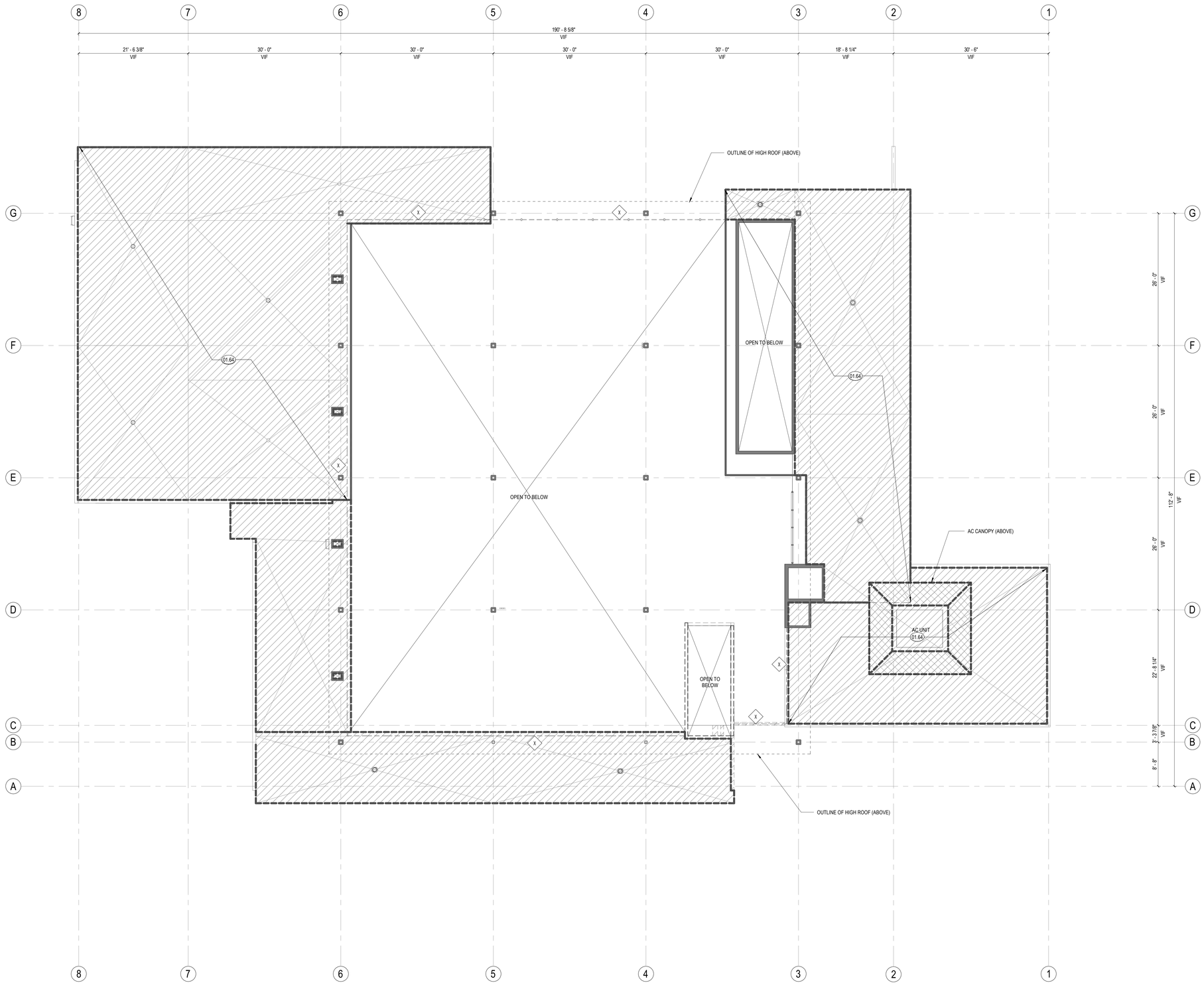


1 DEMOLITION PLAN - LOW ROOF
1/8" = 1'-0"

## SHEET NOTES

1. CONTRACTOR TO VERIFY ALL CONDITIONS PRIOR TO WORK.
2. ALL EXISTING WINDOWS TO BE DEMO'D AND REPLACED U.N.O. REFER TO WINDOW SPECIFICATIONS.
3. DEMO ALL (E) ZONOLITE AND REPLACE WITH RIGID INSULATION.
4. ALL EXISTING ZONOLITE TO BE REMOVED , PLYWOOD DECKING TO BE PATCHED PRIOR TO APPLICATION OF NEW ROOFING SYSTEM

## KEYNOTES

01.64 DEMOLISH (E) ZONOLITE TO BE REPLACED WITH RIGID INSULATION. (E) ROOF STRUCTURE TO BE PRESERVED IN PLACE.

## LEGEND

(E) ROOF TO BE DEMOLISHED. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION

X (E) GLAZING TO BE DEMOLISHED AND REPLACED IN KIND. REFER TO FLOOR PLANS FOR ADDITIONAL INFORAMTION

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## DEMO ROOF PLAN - LOW ROOF

SCALE: 1/8" = 1'-0"

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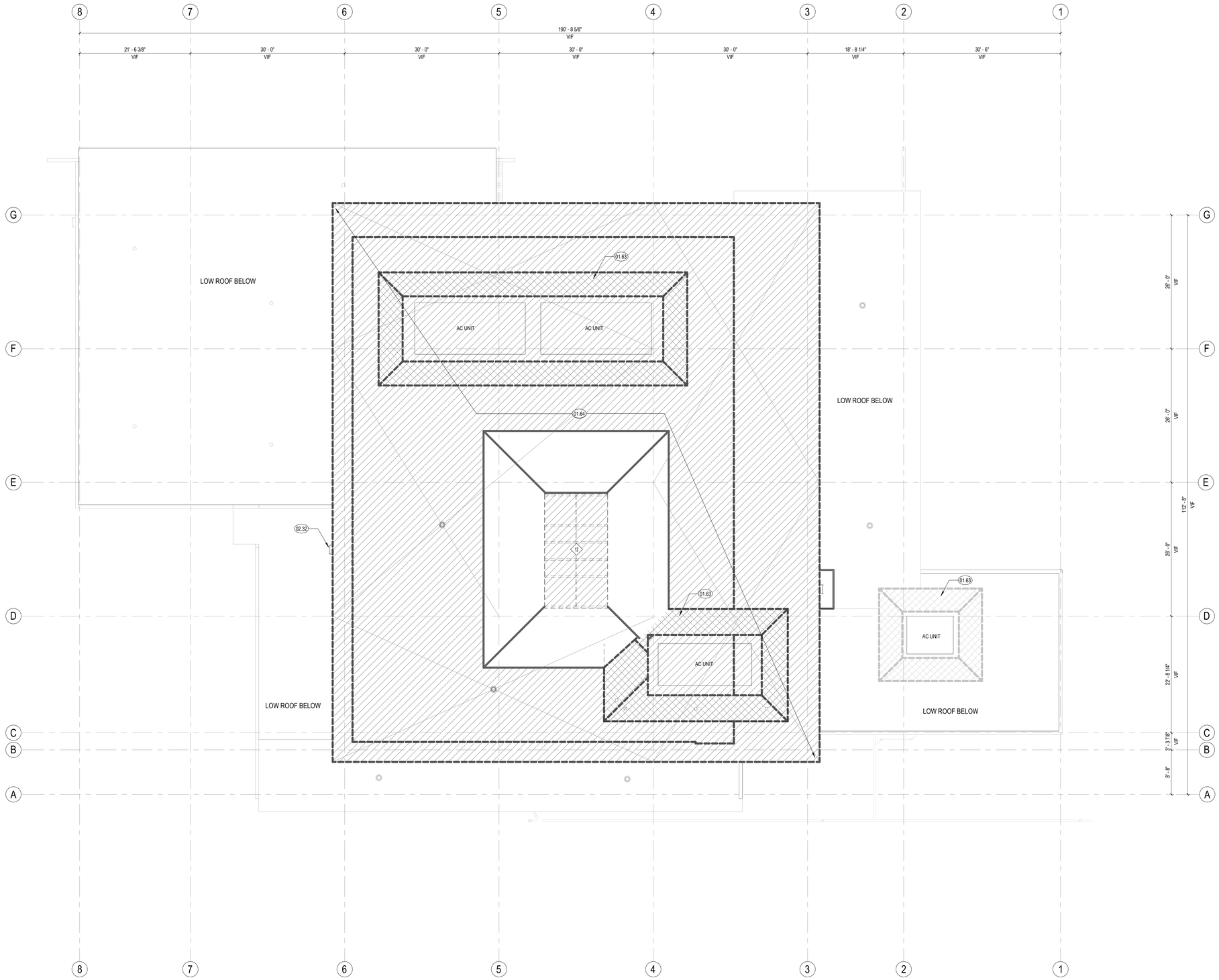


1 DEMOLITION PLAN - HIGH ROOF
1/8" = 1'-0"

## SHEET NOTES

1. CONTRACTOR TO VERIFY ALL CONDITIONS PRIOR TO WORK.
2. ALL EXISTING WINDOWS TO BE DEMO'D AND REPLACED U.N.O. REFER TO WINDOW SPECIFICATIONS.
3. DEMO ALL (E) ZONOLITE AND REPLACE WITH RIGID INSULATION.
4. ALL EXISTING ZONOLITE TO BE REMOVED , PLYWOOD DECKING TO BE PATCHED PRIOR TO APPLICATION OF NEW ROOFING SYSTEM

## KEYNOTES

01.63 DEMOLISH (E) METAL CANOPY @ A.C UNITS
01.64 DEMOLISH (E) ZONOLITE TO BE REPLACED WITH RIGID INSULATION. (E) ROOF STRUCTURE TO BE PRESERVED IN PLACE.
02.32 (E) ROOF LADDER TO REMAIN IN PLACE

## LEGEND

(E) ROOF TO BE DEMOLISHED. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION

(E) GLAZING TO BE DEMOLISHED AND REPLACED IN KIND. REFER TO FLOOR PLANS FOR ADDITIONAL INFORAMTION

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## DEMO ROOF PLAN - HIGH ROOF

SCALE: 1/8" = 1'-0"

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1 DEMOLITION RCP - LOWER LEVEL
1/8" = 1'-0"

## SHEET NOTES

A. CONTRACTOR TO VERIFY ALL CONDITIONS PRIOR TO WORK.
B. BLOCKING OR BACKING SHALL BE PROVIDED IN PARTITIONS AS REQUIRED FOR WALL ATTACHED ITEMS. SEE DETAIL X/A8XX FOR BACKING SCHEDULE FOR CABINETRY, SHELVING, MARKER BOARDS, CHAIR RAILS, GRAB BARS, SHOWER SEATS, HANDRAILS, FIXTURES, EQUIPMENT, FURNISHINGS AND OTHER ITEMS AS REQUIRED.
C. MATCH EXISTING STUD DIMENSION WHERE NEW PARTITION FRAMING ALIGNS WITH EXISTING PARTITION. STUD SIZE INDICATED IN WALL TYPE NEEDS TO BE VERIFIED AT THESE CONDITIONS.
D. NEW WALLS ARE DIMENSIONED TO FACE OF STUD PER SHEET A000, U.N.O.
E. ADJACENT IN-LINE PARTITIONS OF DIFFERENT TYPES SHALL BE CONSTRUCTED SUCH THAT EXPOSED FINISH SURFACES ARE FLUSH AND CONTINUOUS.
F. REPETITIVE FEATURES ARE NOT DRAWN TO THEIR ENTIRETY AND SHALL BE COMPLETELY PROVIDED AS IF DRAWN IN FULL.
G. PATCH AND REPAIR EXISTING WALLS WHERE DAMAGED DUE TO REMOVAL OF WOOD TRIM, HANDRAILS, AND OTHER ITEMS.
H. ALIGN NEW WALLS TO EXISTING STRUCTURAL GRID COLUMNS. V.I.F.

## KEYNOTES

## LEGEND

- (E) CEILING TO BE DEMOLISHED
- UNDERSIDE OF ROOF OVERHANGS
- (E) LIGHT FIXTURE TO BE DEMOLISHED
- (E) WALL, TO BE DEMOLISHED
- (E) FULL HT. WALL, TO REMAIN
- (E) LOW HT. WALL, TO REMAIN
- (E) CONC. COLUMN
- X (E) GLAZING TO BE DEMOLISHED AND REPLACED IN KIND. REFER TO FLOOR PLANS FOR ADDITIONAL INFORAMTION

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## DEMO RCP - LOWER LEVEL

SCALE: 1/8" = 1'-0"

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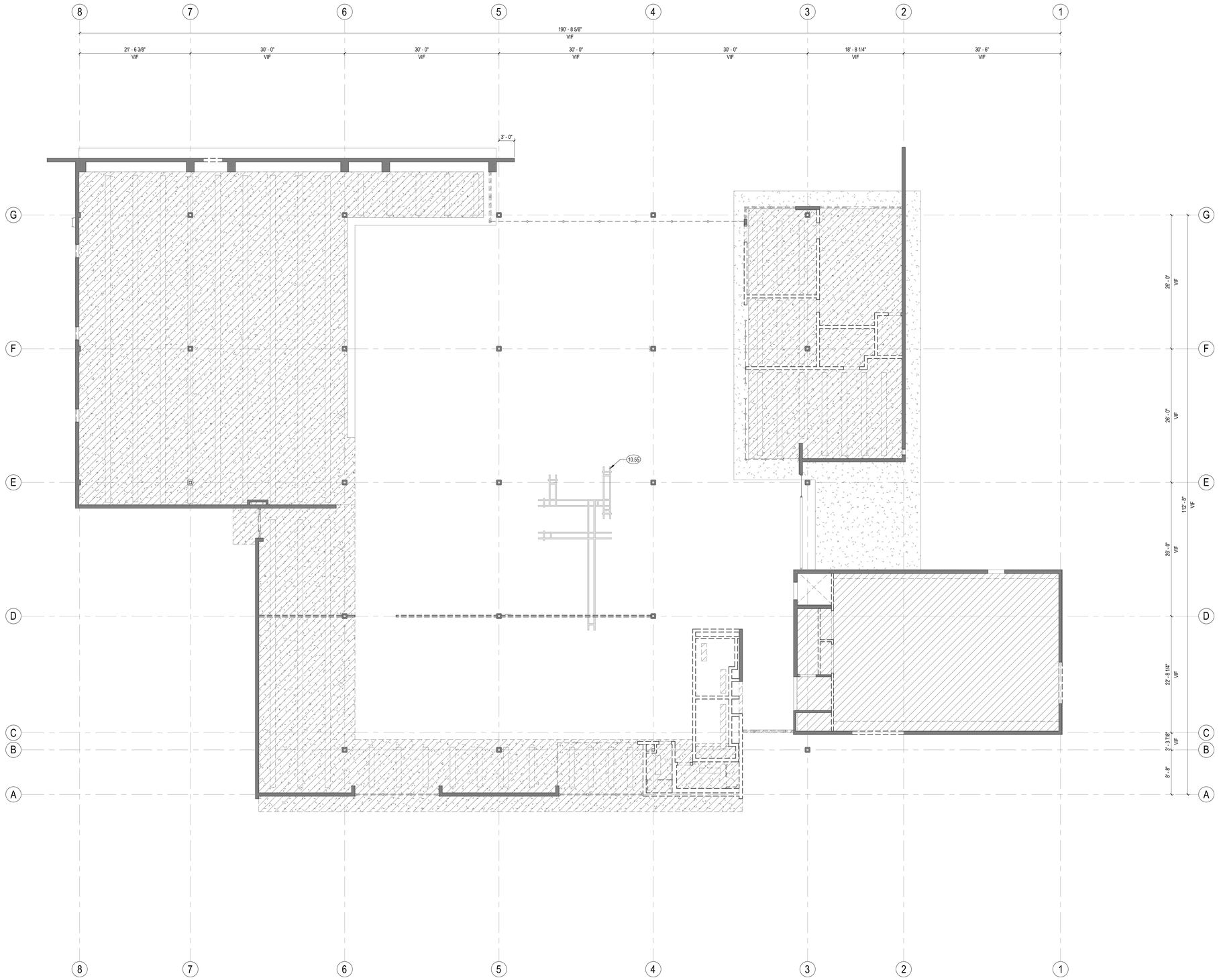


1 DEMOLITION RCP- MAIN LEVEL LOWER CEILING
1/8" = 1'-0"

## SHEET NOTES

A. CONTRACTOR TO VERIFY ALL CONDITIONS PRIOR TO WORK.
B. BLOCKING OR BACKING SHALL BE PROVIDED IN PARTITIONS AS REQUIRED FOR WALL ATTACHED ITEMS. SEE DETAIL X/A8XX FOR BACKING SCHEDULE FOR CABINETRY, SHELVING, MARKER BOARDS, CHAIR RAILS, GRAB BARS, SHOWER SEATS, HANDRAILS, FIXTURES, EQUIPMENT, FURNISHINGS AND OTHER ITEMS AS REQUIRED.
C. MATCH EXISTING STUD DIMENSION WHERE NEW PARTITION FRAMING ALIGNS WITH EXISTING PARTITION. STUD SIZE INDICATED IN WALL TYPE NEEDS TO BE VERIFIED AT THESE CONDITIONS.
D. NEW WALLS ARE DIMENSIONED TO FACE OF STUD PER SHEET A000, U.N.O.
E. ADJACENT IN-LINE PARTITIONS OF DIFFERENT TYPES SHALL BE CONSTRUCTED SUCH THAT EXPOSED FINISH SURFACES ARE FLUSH AND CONTINUOUS.
F. REPETITIVE FEATURES ARE NOT DRAWN TO THEIR ENTIRETY AND SHALL BE COMPLETELY PROVIDED AS IF DRAWN IN FULL.
G. PATCH AND REPAIR EXISTING WALLS WHERE DAMAGED DUE TO REMOVAL OF WOOD TRIM, HANDRAILS, AND OTHER ITEMS.
H. ALIGN NEW WALLS TO EXISTING STRUCTURAL GRID COLUMNS. V.I.F.

## KEYNOTES

10.55 (E) CHANDELIER, TO BE REFURBISHED

## LEGEND

- (E) CEILING TO BE DEMOLISHED
- UNDERSIDE OF ROOF OVERHANGS
- (E) LIGHT FIXTURE TO BE DEMOLISHED
- (E) WALL, TO BE DEMOLISHED
- (E) FULL HT. WALL, TO REMAIN
- (E) LOW HT. WALL, TO REMAIN
- (E) CONC. COLUMN
- X (E) GLAZING TO BE DEMOLISHED AND REPLACED IN KIND. REFER TO FLOOR PLANS FOR ADDITIONAL INFORAMTION

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PROJECT TITLE:

# ALTADENA MAIN LIBRARY

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| PROJECT NO. | 2111010 |
| DATE: | 01-08-2024 |

SHEET TITLE:

**DEMO RCP - MAIN LEVEL LOWER CEILING**

SCALE: 1/8" = 1'-0"

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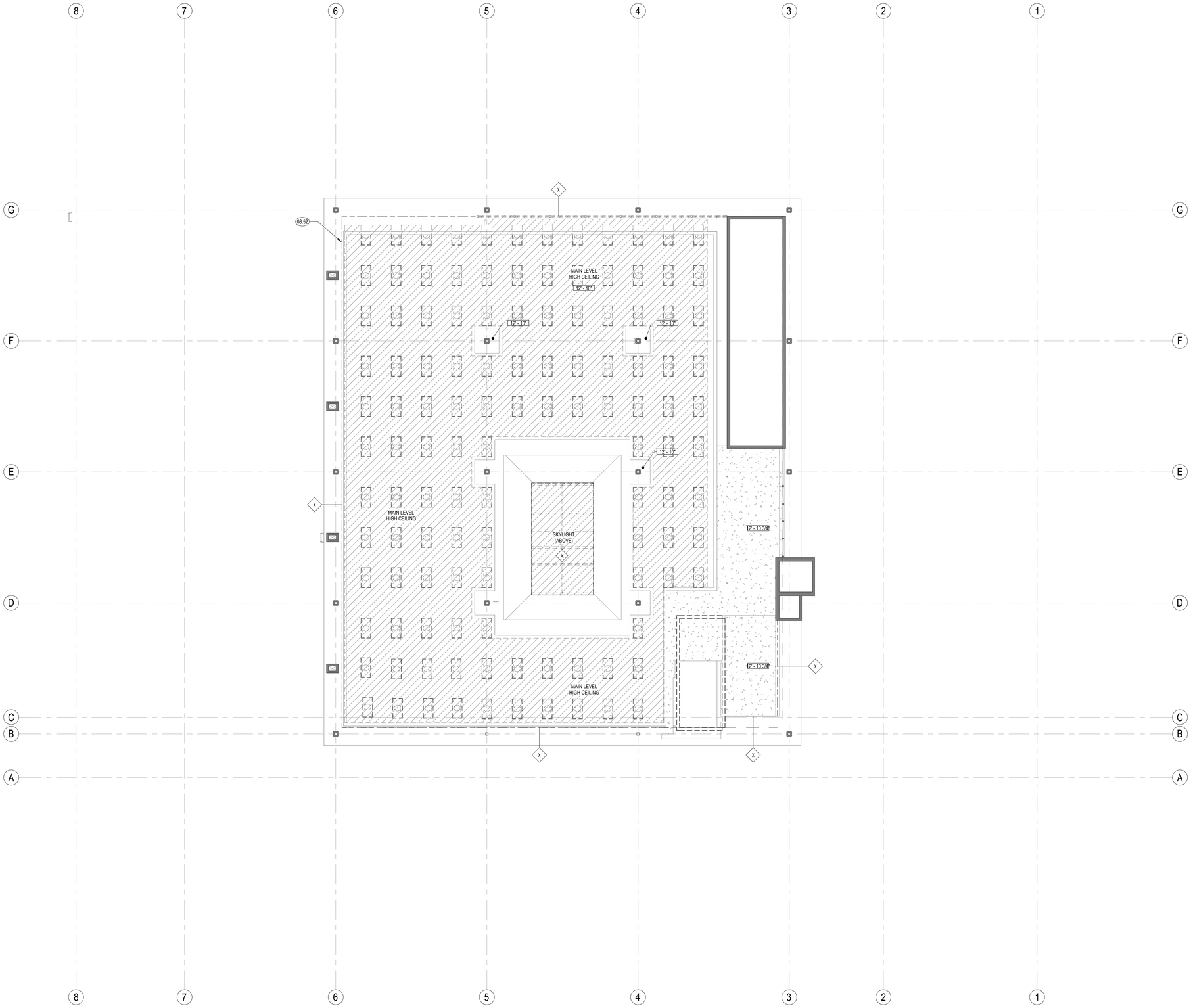


1 REFLECTED CEILING PLAN - MAIN LEVEL UPPER CEILING Copy 2
1/8" = 1'-0"

## SHEET NOTES

A. CONTRACTOR TO VERIFY ALL CONDITIONS PRIOR TO WORK.
B. BLOCKING OR BACKING SHALL BE PROVIDED IN PARTITIONS AS REQUIRED FOR WALL ATTACHED ITEMS. SEE DETAIL X/A8XX FOR BACKING SCHEDULE FOR CABINETRY, SHELVING, MARKER BOARDS, CHAIR RAILS, GRAB BARS, SHOWER SEATS, HANDRAILS, FIXTURES, EQUIPMENT, FURNISHINGS AND OTHER ITEMS AS REQUIRED.
C. MATCH EXISTING STUD DIMENSION WHERE NEW PARTITION FRAMING ALIGNS WITH EXISTING PARTITION. STUD SIZE INDICATED IN WALL TYPE NEEDS TO BE VERIFIED AT THESE CONDITIONS.
D. NEW WALLS ARE DIMENSIONED TO FACE OF STUD PER SHEET A000, U.N.O.
E. ADJACENT IN-LINE PARTITIONS OF DIFFERENT TYPES SHALL BE CONSTRUCTED SUCH THAT EXPOSED FINISH SURFACES ARE FLUSH AND CONTINUOUS.
F. REPETITIVE FEATURES ARE NOT DRAWN TO THEIR ENTIRETY AND SHALL BE COMPLETELY PROVIDED AS IF DRAWN IN FULL.
G. PATCH AND REPAIR EXISTING WALLS WHERE DAMAGED DUE TO REMOVAL OF WOOD TRIM, HANDRAILS, AND OTHER ITEMS.
H. ALIGN NEW WALLS TO EXISTING STRUCTURAL GRID COLUMNS. V.I.F.

## KEYNOTES

08.52 CLERESTORY WINDOWS

## LEGEND

- (E) CEILING TO BE DEMOLISHED
- UNDERSIDE OF ROOF OVERHANGS
- (E) LIGHT FIXTURE TO BE DEMOLISHED
- (E) WALL TO BE DEMOLISHED
- (E) FULL HT. WALL, TO REMAIN
- (E) LOW HT. WALL, TO REMAIN
- (E) CONC. COLUMN
- X (E) GLAZING TO BE DEMOLISHED AND REPLACED IN KIND. REFER TO FLOOR PLANS FOR ADDITIONAL INFORAMTION

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SHEET TITLE:

## DEMO RCP - MAIN LEVEL UPPER CEILING

SCALE: 1/8" = 1'-0"

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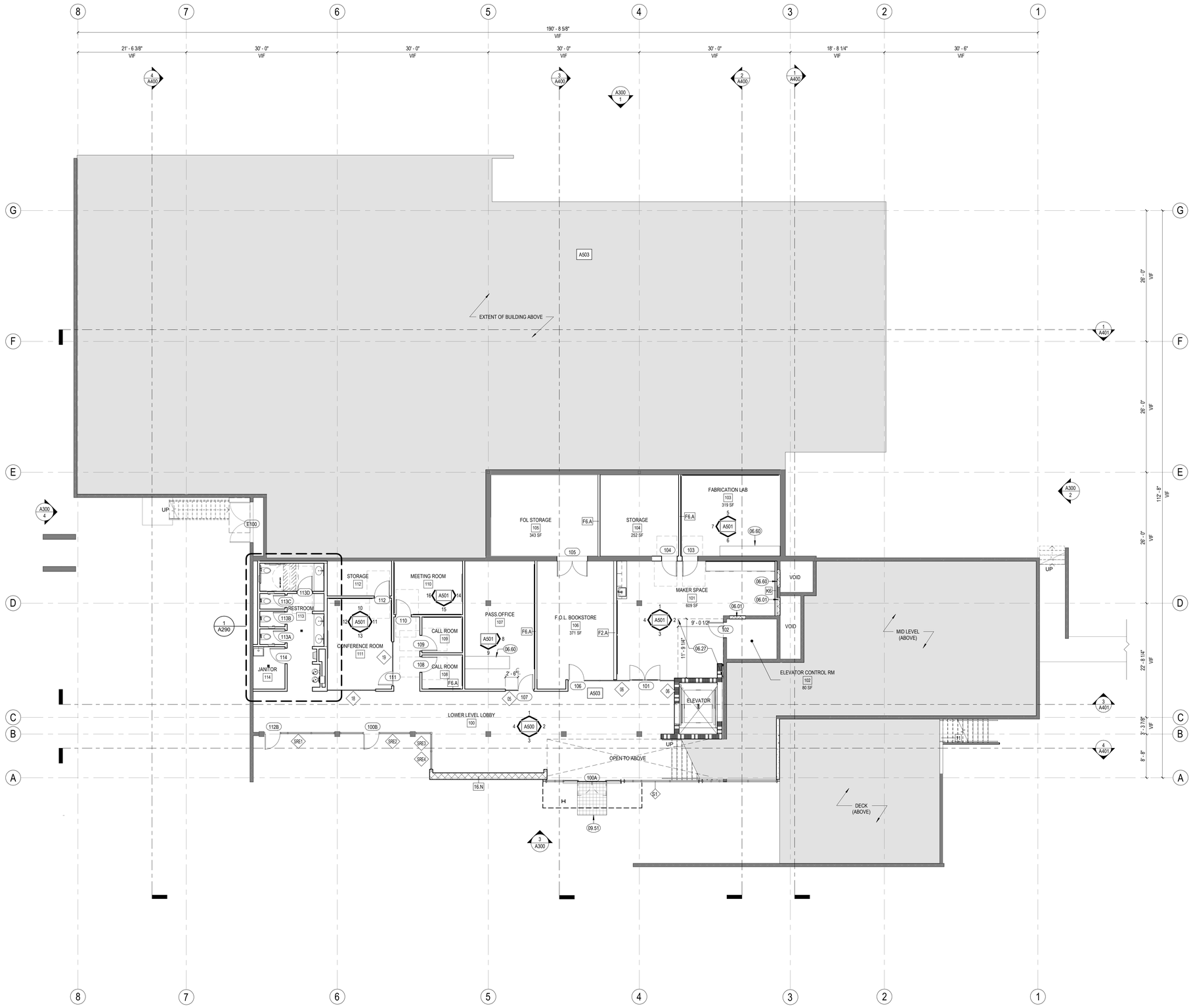


1 FLOOR PLAN - LOWER LEVEL
1/8" = 1'-0"

## FLOOR PLAN SHEET NOTES

A. CONTRACTOR TO VERIFY ALL CONDITIONS PRIOR TO WORK
B. PROVIDE ACCESS PANELS AS REQUIRED PER APPLICABLE CODES FOR MAINTENANCE ACCESS TO INSTALLED MEP EQUIPMENT. PROVIDE STAINLESS STEEL ACCESS PANELS AT CERAMIC TILE LOCATIONS. COORDINATE TYPES AND LOCATIONS OF WALL ACCESS PANELS WITH ARCHITECT PRIOR TO INSTALLATION.
C. BLOCKING OR BACKING SHALL BE PROVIDED IN PARTITIONS AS REQUIRED FOR WALL ATTACHED ITEMS. SEE DETAIL XXX FOR BACKING SCHEDULE FOR CABINETRY, SHELVING, MARKER BOARDS, CHAIR RAILS, GRAB BARS, SHOWER SEATS, HANDRAILS, FIXTURES, EQUIPMENT, FURNISHINGS AND OTHER ITEMS AS REQUIRED.
D. MATCH EXISTING STUD DIMENSION WHERE NEW PARTITION FRAMING ALIGNS WITH EXISTING PARTITION. STUD SIZE INDICATED IN WALL TYPE NEEDS TO BE VERIFIED AT THESE CONDITIONS.
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I. ALIGN NEW WALLS TO EXISTING STRUCTURAL GRID COLUMNS. V.I.F.

## KEYNOTES

06.01 INFILL WD STUD FRAMING. VERIFY STUD DIMENSIONS IN FIELD
06.27 INFILL FLOOR
06.60 CUSTOM MILLWORK DISPLAY CASE, REFER TO ELEVATION FOR ADDITIONAL INFORMATION.
09.51 WALK OFF MAT

## LEGEND

- INTERIOR AND EXTERIOR SOFFITS ABOVE
- PARTITION, SEE PARTITION TYPES ON SHEET A800
- EXISTING (E) WALL TO REMAIN
- F1.AH WALL TAG
- ### DOOR TAG
- E### EXISTING (E) DOOR TO REMAIN
- S# WINDOW TAG
- SRE# STOREFRONT TO REPLACE EXISTING (E) WINDOW IN KIND


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## FLOOR PLAN - LOWER LEVEL

SCALE: 1/8" = 1'-0"


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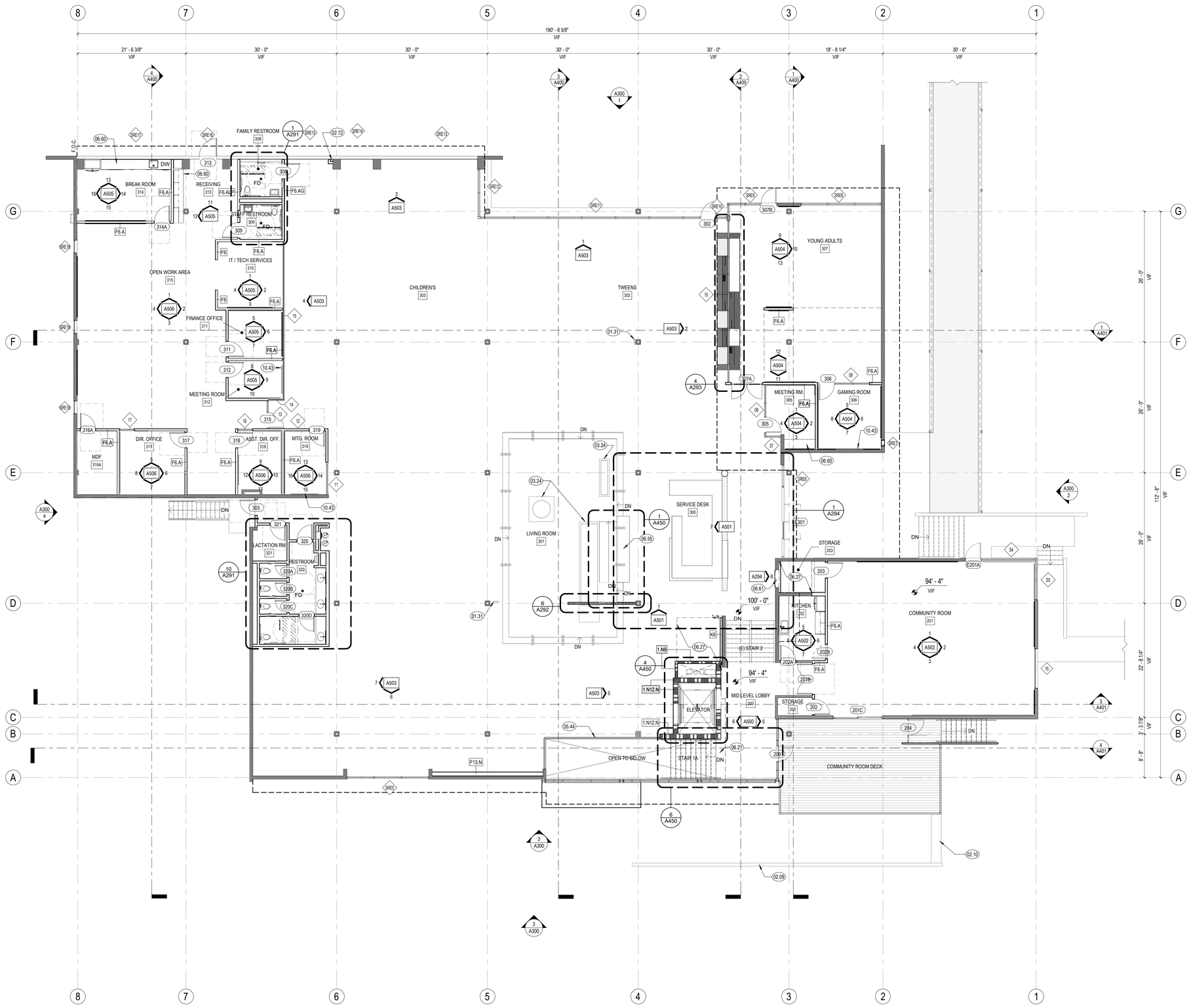


1 FLOOR PLAN - MAIN LEVEL
1/8" = 1'-0"

## FLOOR PLAN SHEET NOTES

A. CONTRACTOR TO VERIFY ALL CONDITIONS PRIOR TO WORK
B. PROVIDE ACCESS PANELS AS REQUIRED PER APPLICABLE CODES FOR MAINTENANCE ACCESS TO INSTALLED MEP EQUIPMENT. PROVIDE STAINLESS STEEL ACCESS PANELS AT CERAMIC TILE LOCATIONS. COORDINATE TYPES AND LOCATIONS OF WALL ACCESS PANELS WITH ARCHITECT PRIOR TO INSTALLATION.
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I. ALIGN NEW WALLS TO EXISTING STRUCTURAL GRID COLUMNS. V.I.F.

## KEYNOTES

01.31 (E) ELECTRICAL WALKER DUCTS TO REMAIN. DEMO (E) ELECTRICAL CONDUITS ALONG COLUMN AND REROUTE VIA IN-FLOOR DUCT SYSTEM TO ELECTRICAL PANEL. SEE TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
02.09 (E) CMU WALL. VIF.
02.10 (E) STONE WALL. VIF.
02.72 (E) RAIN WATER LEADER
03.24 EXISTING CONCRETE PLANTERS
05.44 MECHANICAL SCREEN WITH 4" STL POSTS AND DECORATIVE EXPANDED MTL INFILL PANELS
06.27 INFILL FLOOR
06.55 WOOD BENCH. REFER TO CASEWORK DETAILS FOR ADDITIONAL INFORMATION.
06.60 CUSTOM MILLWORK DISPLAY CASE, REFER TO ELEVATION FOR ADDITIONAL INFORMATION.
06.61 CUSTOM LIBRARY OF THINGS DISPLAY. WILL INCLUDE DISPLAY OF ITEM PLACARDS AND POSSIBLY A BOOK DROP
10.43 WALL MOUNTED TV

## LEGEND

- INTERIOR AND EXTERIOR SOFFITS ABOVE
- PARTITION, SEE PARTITION TYPES ON SHEET A800
- EXISTING (E) WALL TO REMAIN
- F1.AH WALL TAG
- ### DOOR TAG
- E### EXISTING (E) DOOR TO REMAIN
- S# WINDOW TAG
- SRE# STOREFRONT TO REPLACE EXISTING (E) WINDOW IN KIND


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SHEET TITLE:

FLOOR PLAN - MAIN LEVEL

SCALE: 1/8" = 1'-0"


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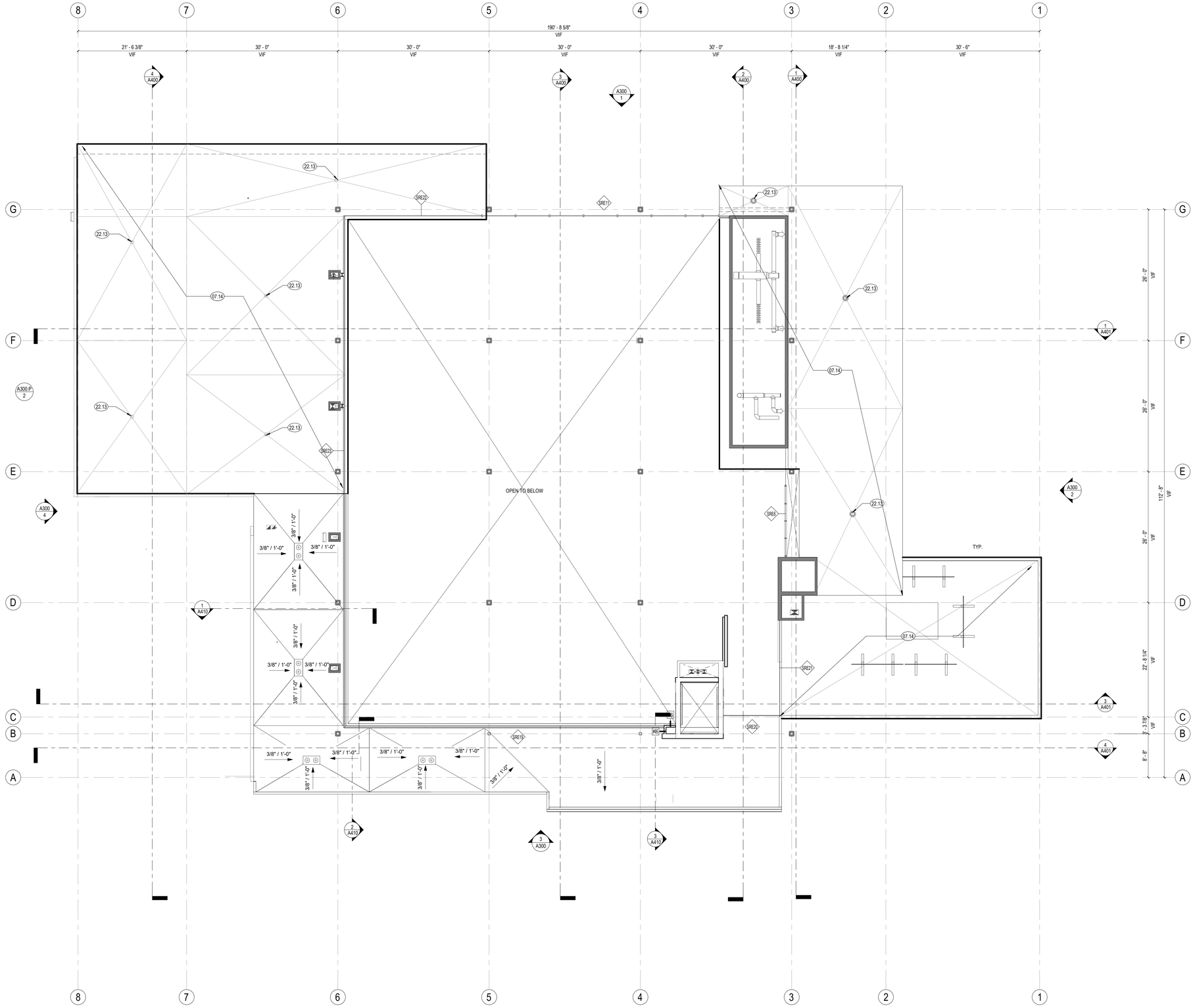


1 ROOF PLAN - LOW ROOF
1/8" = 1'-0"

## SHEET NOTES

1. PARAPETS AND CURBS SHOULD BE A MINIMUM OF 8 INCHES ABOVE THE FINISHED ROOF SURFACE (INCLUDING CRICKETS) TO THE BOTTOM OF THE LOWEST EDGE OF THE PARAPET CAP OR CURB.
2. SKYLIGHTS, HATCHES AND MECHANICAL EQUIPMENT SHOULD BE INSTALLED ON CURBS WITH MINIMUM 8 INCH HEIGHT ABOVE THE ADJACENT ROOF SURFACE TO THE LOWEST EDGE OF THE CURB FLASHING FLANGE. FLASHING CAPS SHOULD EXTEND DOWN TO COVER THE TOP OF THE ROOFING BY 4 INCHES MINIMUM.
3. ROOF MOUNTED MECHANICAL EQUIPMENT MUST BE CAREFULLY COORDINATED WITH OTHER ROOF ELEMENTS SUCH AS SCREENS AND PARAPETS TO ENSURE ADEQUATE CLEARANCE FOR MAINTENANCE ACCESS AND VENTILATION. AVOID PLACING ROOF PENETRATIONS SUCH AS HATCHES OR UTILITY SERVICE PORTS LESS THAN 24 INCHES FROM PARAPETS OR ROOF EDGES.
4. HOT EXHAUST VENTS, STACKS AND OTHER FACILITY SERVICE PENETRATIONS SHOULD BE FLASHED WITH PREFABRICATED COLLARS AS RECOMMENDED BY THE MEMBRANE ROOF MANUFACTURER.
5. ROOF PENETRATIONS SHOULD BE SPACED A MINIMUM OF 12 INCHES APART CURB-TO-CURB, AND KEPT 24 INCHES AWAY FROM PARAPET WALLS IN ORDER TO PROVIDE CONSTRUCTION AND MAINTENANCE CLEARANCE FOR PENETRATION FLASHINGS.
6. FLASHING FLANGES SHOULD BE WELDED TO DUCTWORK AND METAL PENETRATING ELEMENTS WHEREVER POSSIBLE AND SHOULD NOT RELY ON "DRAW-BAND" INSTALLATIONS.
7. CRICKETS TO BE BUILT UP WITH TAPERED RIGID INSULATION.
8. 
9. ROOF FINISH TO BE PVC MEMBRANE ROOFING
10. PROVIDE 6" MIN. UN-WELDED SEAM AT DRAINAGE SIDE OF WALKWAYS AT SPACING PER MFR.
11. FOR TEMPORARY, PORTABLE, NON-PENETRATING FALL PROTECTION ACCESSORIES, SEE DETAIL
12. FOR STRUCTURAL FRAMING PLAN AT CLERESTORY WINDOWS, REFER TO SHEET S300.

## KEYNOTES

07.14 SLOPED INSULATION TO REPLACE (E) ZONOLITE. (E) ROOF STRUCTURE TO BE PRESERVED IN PLACE.
22.13 (E) ROOF DRAIN, VIF

## LEGEND

- FOOTPRINT OF BUILDING BELOW
- INTERIOR AND EXTERIOR SOFFITS ABOVE
- SPOT ELEVATION
- ROOF ACCESS HATCH
- ROOF WALKWAY
- ROOF DRAIN WITH OVERFLOW
- SRE# — STOREFRONT TO REPLACE EXISTING (E) WINDOW IN KIND
- MAX. AREA FOR FUTURE SOLAR PHOTOVOLTAIC PANELS, UNDER SEPARATE INCREMENT AND BID. SHOWN FOR REFERENCE ONLY. SOLAR PANELS TO BE MIN. 4'-0" FROM ROOF EDGE.

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## ROOF PLAN - LOW ROOF

SCALE: 1/8" = 1'-0"

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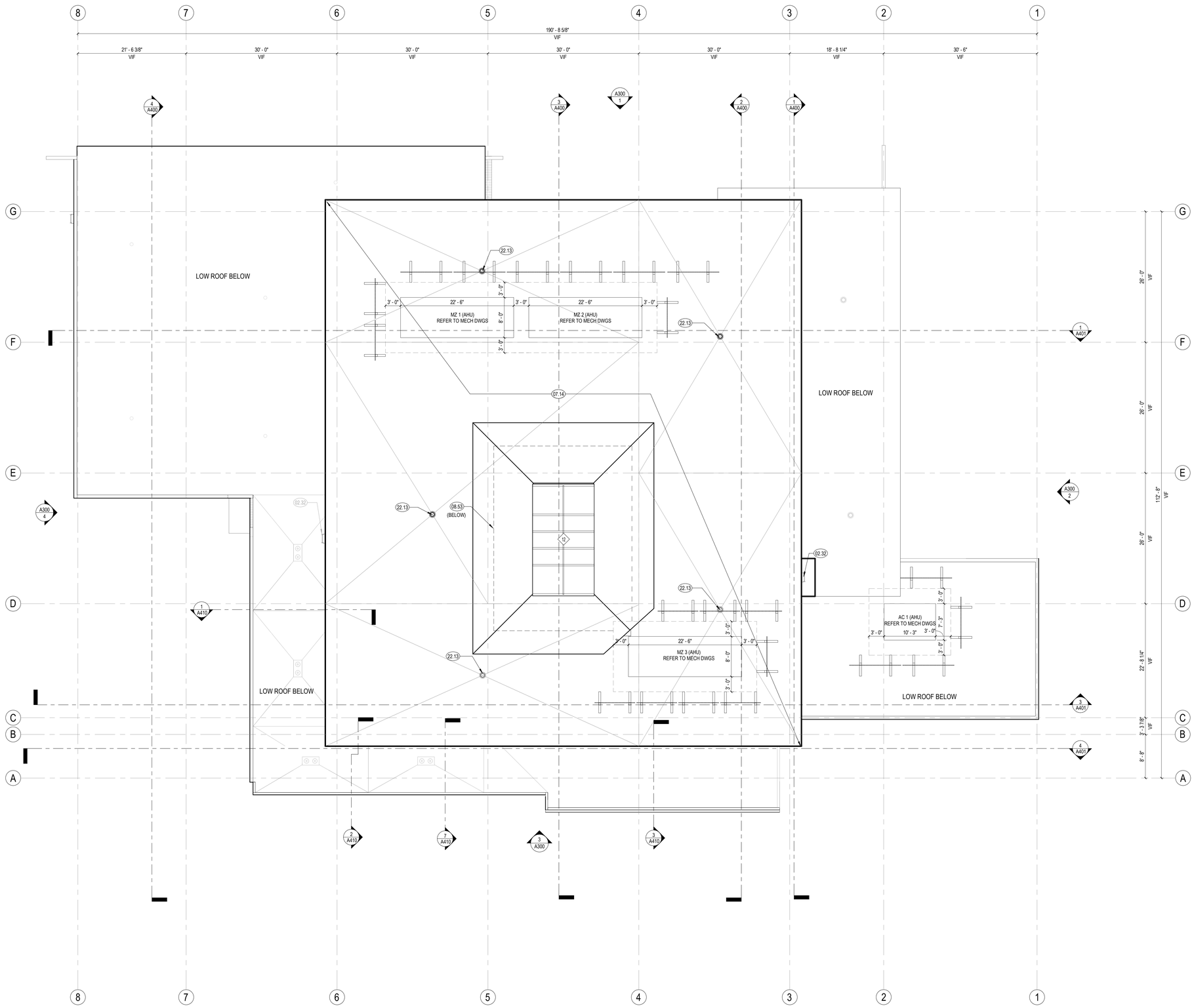


1 ROOF PLAN - HIGH ROOF
1/8" = 1'-0"

## SHEET NOTES

1. PARAPETS AND CURBS SHOULD BE A MINIMUM OF 8 INCHES ABOVE THE FINISHED ROOF SURFACE (INCLUDING CRICKETS) TO THE BOTTOM OF THE LOWEST EDGE OF THE PARAPET CAP OR CURB.
2. SKYLIGHTS, HATCHES AND MECHANICAL EQUIPMENT SHOULD BE INSTALLED ON CURBS WITH MINIMUM 8 INCH HEIGHT ABOVE THE ADJACENT ROOF SURFACE TO THE LOWEST EDGE OF THE CURB FLASHING FLANGE. FLASHING CAPS SHOULD EXTEND DOWN TO COVER THE TOP OF THE ROOFING BY 4 INCHES MINIMUM.
3. ROOF MOUNTED MECHANICAL EQUIPMENT MUST BE CAREFULLY COORDINATED WITH OTHER ROOF ELEMENTS SUCH AS SCREENS AND PARAPETS TO ENSURE ADEQUATE CLEARANCE FOR MAINTENANCE ACCESS AND VENTILATION. AVOID PLACING ROOF PENETRATIONS SUCH AS HATCHES OR UTILITY SERVICE PORTS LESS THAN 24 INCHES FROM PARAPETS OR ROOF EDGES.
4. HOT EXHAUST VENTS, STACKS AND OTHER FACILITY SERVICE PENETRATIONS SHOULD BE FLASHED WITH PREFABRICATED COLLARS AS RECOMMENDED BY THE MEMBRANE ROOF MANUFACTURER.
5. ROOF PENETRATIONS SHOULD BE SPACED A MINIMUM OF 12 INCHES APART CURB-TO-CURB, AND KEPT 24 INCHES AWAY FROM PARAPET WALLS IN ORDER TO PROVIDE CONSTRUCTION AND MAINTENANCE CLEARANCE FOR PENETRATION FLASHINGS.
6. FLASHING FLANGES SHOULD BE WELDED TO DUCTWORK AND METAL PENETRATING ELEMENTS WHEREVER POSSIBLE AND SHOULD NOT RELY ON "DRAW-BAND" INSTALLATIONS.
7. CRICKETS TO BE BUILT UP WITH TAPERED RIGID INSULATION.
8. 
9. ROOF FINISH TO BE PVC MEMBRANE ROOFING
10. PROVIDE 6" MIN. UN-WELDED SEAM AT DRAINAGE SIDE OF WALKWAYS AT SPACING PER MFR.
11. FOR TEMPORARY, PORTABLE, NON-PENETRATING FALL PROTECTION ACCESSORIES, SEE DETAIL.
12. FOR STRUCTURAL FRAMING PLAN AT CLERESTORY WINDOWS, REFER TO SHEET S300.

## KEYNOTES

| | |
|---|---|
| 02.32 | (E) ROOF LADDER TO REMAIN IN PLACE |
| 07.14 | SLOPED INSULATION TO REPLACE (E) ZONOLITE. (E) ROOF STRUCTURE TO BE PRESERVED IN PLACE. |
| 08.53 | NEW CLERESTORY WINDOWS TO REPLACE EXISTING (BELOW). REFER TO BUILDING SECTIONS AND ELEVATIONS FOR ADDITIONAL INFORMATION |
| 22.13 | (E) ROOF DRAIN, VIF |

## LEGEND

- FOOTPRINT OF BUILDING BELOW
- INTERIOR AND EXTERIOR SOFFITS ABOVE
- SPOT ELEVATION
- ROOF ACCESS HATCH
- ROOF WALKWAY
- ROOF DRAIN WITH OVERFLOW
- SRE# — STOREFRONT TO REPLACE EXISTING (E) WINDOW IN KIND
- MAX. AREA FOR FUTURE SOLAR PHOTOVOLTAIC PANELS, UNDER SEPARATE INCREMENT AND BID. SHOWN FOR REFERENCE ONLY. SOLAR PANELS TO BE MIN. 4'-0" FROM ROOF EDGE.


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## ROOF PLAN - HIGH ROOF

SCALE: 1/8" = 1'-0"


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1 REFLECTED CEILING PLAN - LOWER LEVEL
1/8" = 1'-0"

## SHEET NOTES

## KEYNOTES

10.91 UNDERSIDE OF EXTERIOR STAIR LANDING
26.46 LINEAR UP LIGHT ON GYPSUM BOARD SHELF

## LEGEND

**WD 2** - WOOD SLAT CEILING SYSTEM, REFER TO FINISH SCHEDULE FOR ADDITIONAL INFORMATION
**SS-1** - 15/16" SUSPENSION GRID, BLACK PLENUM ABOVE TO BE PAINTED PT5, REFER TO FINISH SCHEDULE FOR ADDITIONAL INFORMATION

**ACT 1** - 24" X 24" ACT CEILING, REFER TO FINISH SCHEDULE FOR ADDITIONAL INFORMATION
**SS-2** - 15/16" SUSPENSION GRID, WHITE

**ACT 1** - 24" X 48" ACT CEILING, SEE A240 FOR FINISH
**SS-2** - 15/16" SUSPENSION GRID, WHITE

**GB 2** - GYPSUM BOARD CLG, FRAMED SYSTEM, PAINTED.

PAINTED EXISTING STRUCTURE

PAINTED CEMENT PLASTER

**MTL-3** DECORATIVE METAL PANEL

10'-0" CEILING HEIGHT A.F.F.

WT-1 DUAL ROLLER SHADE, ELECTRIC SEE FOR FINISH SEE A240: MS1, MS2

LIGHT FIXTURES, SED

MECHANICAL DIFFUSERS, SMD

WIRELESS ACCESS POINT, SEE TELECOMM DRAWINGS

FIRE SPRINKLERS, SEE FIRE PROTECTION DRAWINGS

FIRE ALARM DEVICE , SEE FIRE ALARM DRAWINGS

ROOF ACCESS HATCH, SEE ROOF PLAN

ACCESS PANEL. (CONTRACTOR TO VERIFY IN FIELD. BEST LOCATION, SIZE & NEED. COORDINATE W/ OTHER DISCIPLINES WHERE ACCES IS NEEDED.)

EXIT SIGNAGE; SEE ELECTRICAL DRAWINGS

S# WINDOW TAG

SRE# STOREFRONT TO REPLACE EXISTING (E) WINDOW IN KIND

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## RCP - LOWER LEVEL

SCALE: 1/8" = 1'-0"

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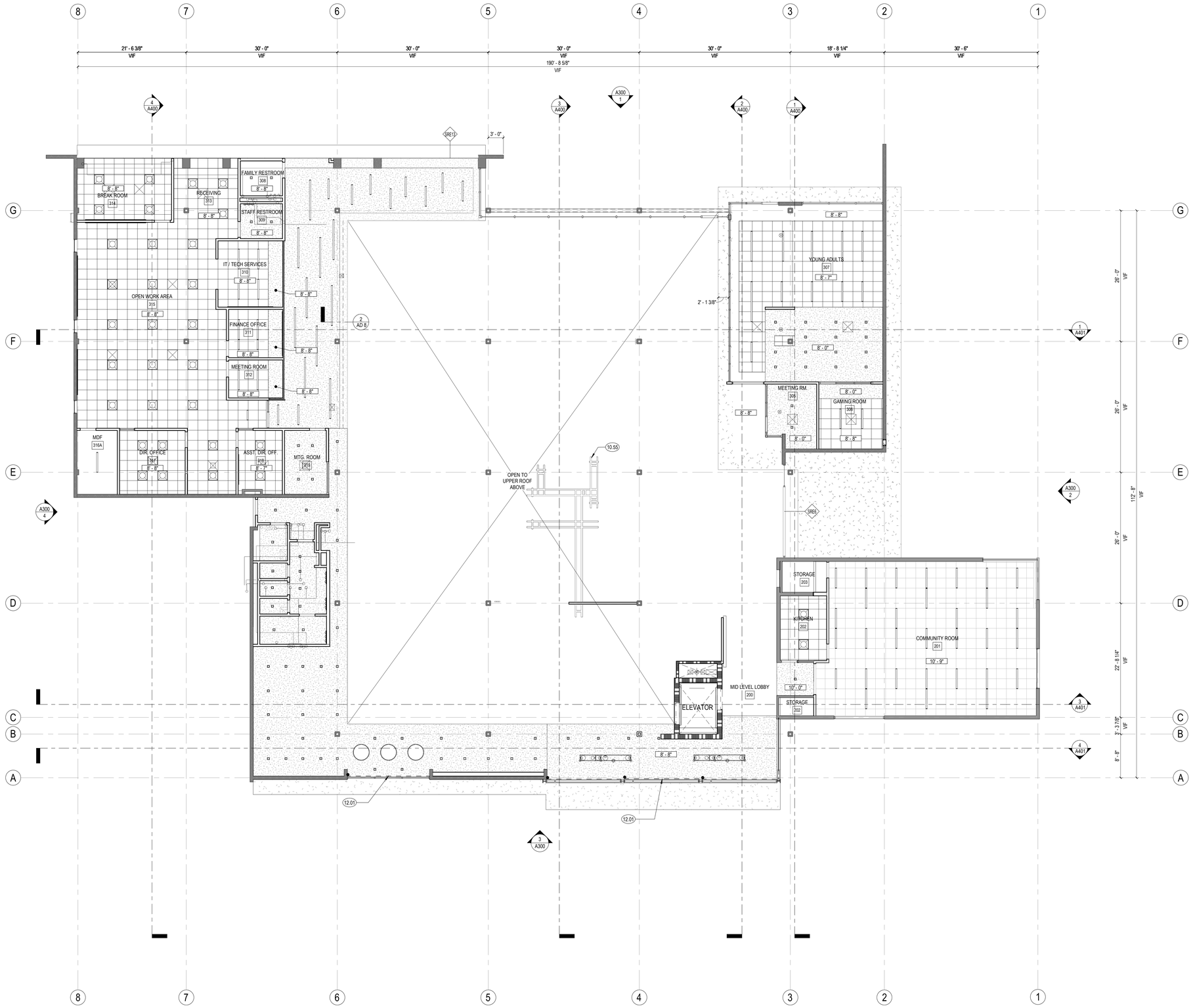


1 REFLECTED CEILING PLAN - MAIN LEVEL LOWER CEILING
1/8" = 1'-0"

## SHEET NOTES

## KEYNOTES

10.55 (E) CHANDELIER, TO BE REFURBISHED
12.01 MOTORIZED SHADED. SINGLE SHADE. SEE FINISH LEGEND FOR MATERIAL

## LEGEND

**WD 2** - WOOD SLAT CEILING SYSTEM, REFER TO FINISH SCHEDULE FOR ADDITIONAL INFORMATION
**SS-1** - 15/16" SUSPENSION GRID, BLACK PLENUM ABOVE TO BE PAINTED PT5, REFER TO FINISH SCHEDULE FOR ADDITIONAL INFORMATION

**ACT 1** - 24" X 24" ACT CEILING, REFER TO FINISH SCHEDULE FOR ADDITIONAL INFORMATION
**SS-2** - 15/16" SUSPENSION GRID, WHITE

**ACT 1** - 24" X 48" ACT CEILING, SEE A240 FOR FINISH
**SS-2** - 15/16" SUSPENSION GRID, WHITE

**GB 2** - GYPSUM BOARD CLG, FRAMED SYSTEM, PAINTED.

PAINTED EXISTING STRUCTURE

PAINTED CEMENT PLASTER

**MTL-3** DECORATIVE METAL PANEL

10'-0" CEILING HEIGHT A.F.F.

WT-1 DUAL ROLLER SHADE, ELECTRIC SEE FOR FINISH SEE A240: MS1, MS2

LIGHT FIXTURES, SED

MECHANICAL DIFFUSERS, SMD

WIRELESS ACCESS POINT, SEE TELECOMM DRAWINGS

FIRE SPRINKLERS, SEE FIRE PROTECTION DRAWINGS

FIRE ALARM DEVICE , SEE FIRE ALARM DRAWINGS

ROOF ACCESS HATCH, SEE ROOF PLAN

ACCESS PANEL. (CONTRACTOR TO VERIFY IN FIELD, BEST LOCATION, SIZE & NEED. COORDINATE W/ OTHER DISCIPLINES WHERE ACCES IS NEEDED.)

EXIT SIGNAGE; SEE ELECTRICAL DRAWINGS

S# WINDOW TAG

SRE# STOREFRONT TO REPLACE EXISTING (E) WINDOW IN KIND

ANDERSON BRULÉ ARCHITECTS
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PROJECT TITLE:

# ALTADENA MAIN LIBRARY

600 E MARIPOSA STREET
ALTADENA, CA 91001

| | |
|---|---|
| PROJECT NO. | 2111010 |
| DATE: | 01-08-2024 |

SHEET TITLE:

## RCP - MAIN LEVEL LOWER CEILING

SCALE: 1/8" = 1'-0"

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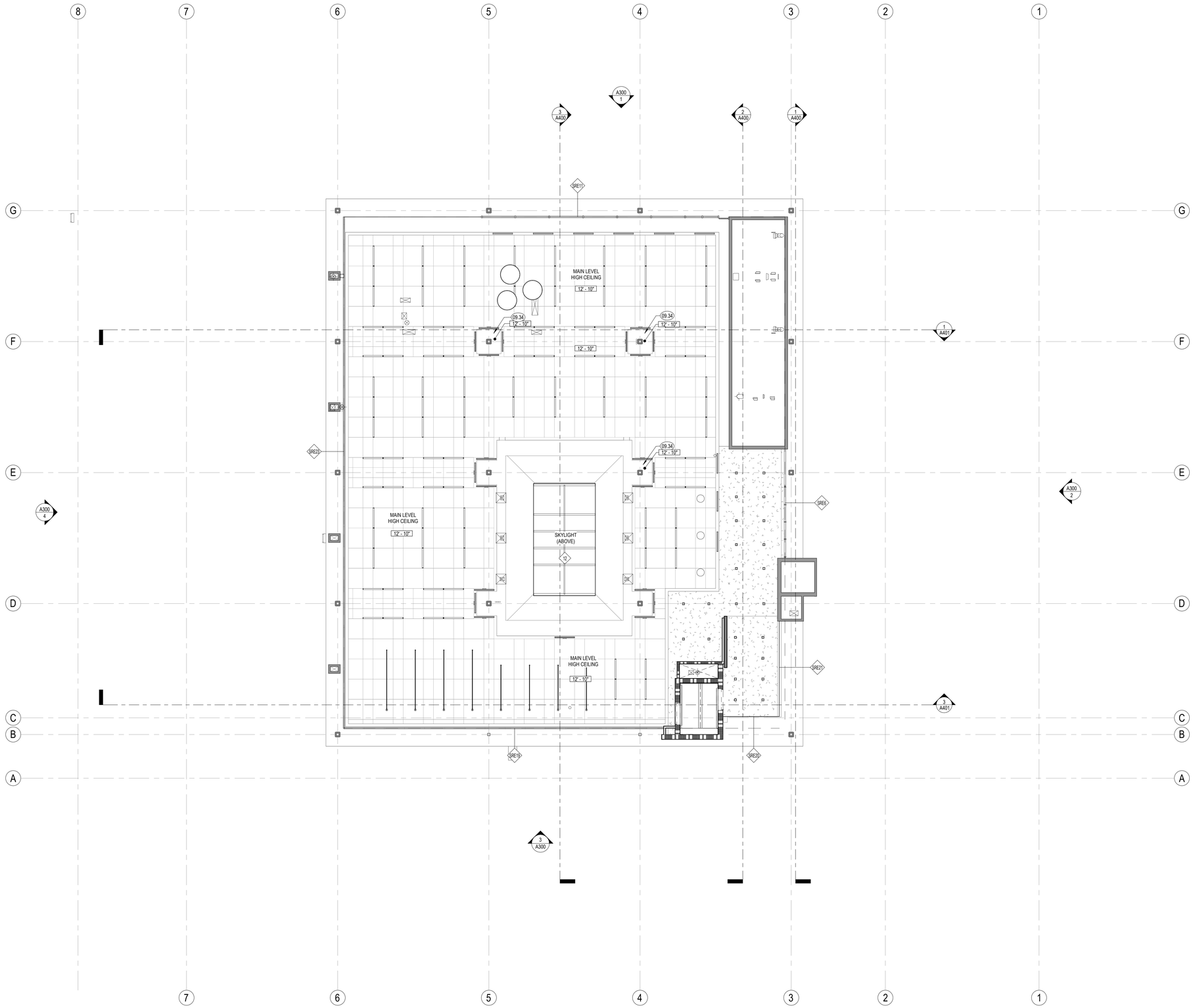


1 REFLECTED CEILING PLAN - MAIN LEVEL UPPER CEILING
1/8" = 1'-0"

## SHEET NOTES

## KEYNOTES

09.34 EXPOSED TO UNDERSIDE OF ROOF ABOVE

## LEGEND

- **WD 2** - WOOD SLAT CEILING SYSTEM, REFER TO FINISH SCHEDULE FOR ADDITIONAL INFORMATION
  **SS-1** - 15/16" SUSPENSION GRID, BLACK PLENUM ABOVE TO BE PAINTED PT5, REFER TO FINISH SCHEDULE FOR ADDITIONAL INFORMATION
- **ACT 1** - 24" X 24" ACT CEILING, REFER TO FINISH SCHEDULE FOR ADDITIONAL INFORMATION
  **SS-2** - 15/16" SUSPENSION GRID, WHITE
- **ACT 1** - 24" X 48" ACT CEILING, SEE A240 FOR FINISH
  **SS-2** - 15/16" SUSPENSION GRID, WHITE
- **GB 2** - GYPSUM BOARD CLG, FRAMED SYSTEM, PAINTED.
- PAINTED EXISTING STRUCTURE
- PAINTED CEMENT PLASTER
- **MTL-3** DECORATIVE METAL PANEL
- 10'-0" CEILING HEIGHT A.F.F.
- WT-1 DUAL ROLLER SHADE, ELECTRIC SEE FOR FINISH SEE A240: MS1, MS2
- LIGHT FIXTURES, SED
- MECHANICAL DIFFUSERS, SMD
- WIRELESS ACCESS POINT, SEE TELECOMM DRAWINGS
- FIRE SPRINKLERS, SEE FIRE PROTECTION DRAWINGS
- FIRE ALARM DEVICE , SEE FIRE ALARM DRAWINGS
- ROOF ACCESS HATCH, SEE ROOF PLAN
- ACCESS PANEL. (CONTRACTOR TO VERIFY IN FIELD, BEST LOCATION, SIZE & NEED. COORDINATE W/ OTHER DISCIPLINES WHERE ACCES IS NEEDED.)
- EXIT SIGNAGE; SEE ELECTRICAL DRAWINGS
- S# WINDOW TAG
- SRE# STOREFRONT TO REPLACE EXISTING (E) WINDOW IN KIND


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## RCP - MAIN LEVEL UPPER CEILING

SCALE: 1/8" = 1'-0"


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1 DD - FINISH PLAN - LOWER LEVEL
1/8" = 1'-0"

## FINISH PLAN SHEET NOTES

A. SEE SHEET A240 FOR FINISH LEGEND
B. FOR VERTICAL FINISHES SEE FINISH PLANS
C. FOR INTERIOR DOOR FRONT TYPE SEE A600
D. ALL ELECTRICAL OUTLETS ABOVE CASEWORK TO BE ORIENTED HORIZONTALLY
E. ELECTRICAL OUTLETS SHOWN FOR REFERENCE. SED FOR LOCATIONS
F. ALL CASEWORK TO BE LOCKABLE U.N.O.
G. FURNITURE SHOWN FOR REFERENCE ONLY
H. FOR FA AND PA CALLED OUT WITH OUT A NUMBER SEE FINISH PLAN FOR FINISH
I. ALL WALL BASE IS RUBBER BASE, WB, AS NOTES IN FINISH LEGEND, UNO
J. FOR FINISH MATERIALS, SEE FINISH LEGEND & INTERIOR FINISH SCHEDULE SHEET A630.
K. ALL GLASS WALL SYSTEMS TO RECEIVE WINDOW FILM WITH CUSTOM FINISH
L. ALL WALLS TO BE PAINTED IN P1 U.N.O.
M. ALL INTERIOR DOOR AND WINDOW TRIM TO BE PAINTED U.N.O.
N. FOR AV EQUIPMENT LOCATIONS SEE RCP'S AND EQUIPMENT PLANS
O. FOR BACKING DETAILS, REFER TO BACKING PLATE SCHEDULE 10/A810

## FINISH PLAN KEYNOTES

09.16 WALL TILE, SEE ELEVATIONS FOR TYPE
09.77 FABRIC WRAPPED ACOUSTIC PANEL, SEE ELEVATIONS FOR EXTENT AND FINISH
10.58 CORNER GUARD

## FINISH PLAN LEGEND

EXTENT OF WALL FINISH
WALL FINISH CALL OUT
EXTENT OF WALL FINISH
WT8 WALL FINISH CALLOUT
INDICATES START OF FLOOR PATTERN
INDICATES TRANSITION OF MATERIAL
FLOOR INSTALLATION DIRECTION

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SHEET TITLE:

**FINISH PLAN - LOWER LEVEL**

SCALE: 1/8" = 1'-0"

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1 DD - FINISH PLAN - MAIN LEVEL
1/8" = 1'-0"

## FINISH PLAN SHEET NOTES

A. SEE SHEET A240 FOR FINISH LEGEND
B. FOR VERTICAL FINISHES SEE FINISH PLANS
C. FOR INTERIOR DOOR FRONT TYPE SEE A600
D. ALL ELECTRICAL OUTLETS ABOVE CASEWORK TO BE ORIENTED HORIZONTALLY
E. ELECTRICAL OUTLETS SHOWN FOR REFERENCE. SED FOR LOCATIONS
F. ALL CASEWORK TO BE LOCKABLE U.N.O.
G. FURNTIURE SHOWN FOR REFERENCE ONLY
H. FOR FA AND PA CALLED OUT WITH OUT A NUMBER SEE FINISH PLAN FOR FINISH
I. ALL WALL BASE IS RUBBER BASE, WB, AS NOTES IN FINISH LEGEND, UNO
J. FOR FINISH MATERIALS, SEE FINISH LEGEND & INTERIOR FINISH SCHEDULE SHEET A630.
K. ALL GLASS WALL SYSTEMS TO RECEIVE WINDOW FILM WITH CUSTOM FINISH
L. ALL WALLS TO BE PAINTED IN P1 U.N.O.
M. ALL INTERIOR DOOR AND WINDOW TRIM TO BE PAINTED U.N.O.
N. FOR AV EQUIPMENT LOCATIONS SEE RCP'S AND EQUIPMENT PLANS
O. FOR BACKING DETAILS, REFER TO BACKING PLATE SCHEDULE 10/A810

## FINISH PLAN KEYNOTES

09.16 WALL TILE, SEE ELEVATIONS FOR TYPE
09.63
09.77 FABRIC WRAPPED ACOUSTIC PANEL, SEE ELEVATIONS FOR EXTENT AND FINISH
10.58 CORNER GUARD

## FINISH PLAN LEGEND

EXTENT OF WALL FINISH
WALL FINISH CALL OUT
EXTENT OF WALL FINISH
WT# WALL FINISH CALLOUT
INDICATES START OF FLOOR PATTERN
INDICATES TRANSITION OF MATERIAL
FLOOR INSTALLATION DIRECTION


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## FINISH PLAN - MAIN LEVEL

SCALE: 1/8" = 1'-0"


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## FLOOR FINISHES

### CARPET

CP1
CARPET TILE
MFR: MILLIKEN
PATTERN: PLATO
COLOR: CELESTITE
SIZE: 9x36

CP2
CARPET TILE
MFR: MILLIKEN
PATTERN: GRAIN BIAS
COLOR: RAW EDGE
SIZE: 9x36

CP3
CARPET TILE
MFR: MILLIKEN
PATTERN: PLATO
COLOR: BRONZE
SIZE: 9x36

CP4
CARPET TILE
MFR: INTERFACE
PATTERN: SOCIAL FABRIC
COLOR: SUNSET
SIZE: 9x36

CP5
CARPET TILE
MFR: INTERFACE
PATTERN: AQUATINT
COLOR: CARBON
SIZE: 9x36

CP6
WALK OFF CARPET TILE
MFR: MILLIKEN
PATTERN: CUT / STRUM
COLOR: DARK GREY

CP7
WALK OFF CARPET TILE
MFR: MILLIKEN
PATTERN: CUTX / FIZZ
COLOR: DARK GREEN

### TILE

TF1
PORCELAIN FLOOR TILE
MFR: DALTILE
TYPE: HAUTE MONDE
COLOR: GLITTERATI GRANITE
FINISH: TBD
SIZE: 12X24

### RESILIENT

RF1
RESILIENT FLOOR
MFR: TARKETT
TYPE: LINOLEUM, TRENTINO XF²
SIZE: 2.5MM THICK
COLOR: GREY PEPPER

RF2
RESILIENT FLOOR
MFR: MARMOLEUM
TYPE: FRESCO
COLOR: DOVE BLUE

RF3
RESILIENT FLOOR
MFR: PATCRAFT
TYPE: ADMIX
SIZE: 36"X36"
COLOR: SUNDIAL

### SEALED CONCRETE

SC1
SEALED CONCRETE
MFR: N/A
TYPE: N/A
COLOR: N/A
NOTE: N/A

### TERRAZZO

SC2
RESILIENT FLOOR - TERRAZZO
MFR: KEY RESIN
TYPE: POURED TERRAZZO
COLOR: IVORY PEARL

## WALL FINISHES

PAINT

PT1
GENERAL WALL PAINT
MFR: DUNN EDWARDS
COLOR: TBD
FINISH: TBD

PT2
ACCENT PAINT
MFR: DUNN EDWARDS
COLOR: TBD
FINISH: TBD

PT3
ACCENT PAINT
MFR: DUNN EDWARDS
COLOR: TBD
FINISH: TBD

### TILE

TW1
WALL TILE
MFR: FIRECLAY
TYPE: BRICK
COLOR: OLYMPIC
SIZE: 2.5X8
GROUT: TBD
TRIM: INCLUDE TRIM PIECES

TW2
WALL TILE
MFR: FIRECLAY
TYPE: BRICK
COLOR: COLUMBIA PLATEAU
FINISH: GLOSS
SIZE: 2.5X8
GROUT: TBD
TRIM: INCLUDE TRIM PIECES

TW3
WALL TILE
MFR: DALTILE
TYPE: COLOR WHEEL LINEAR
COLOR: BISCUIT
FINISH: GLOSS
SIZE: 2X8
GROUT: TBD
TRIM: TBD

TW4
WALL TILE
MFR: DALTILE
TYPE: COLOR WHEEL LINEAR
COLOR: BISCUIT
FINISH: MATTE
SIZE: 2X8
GROUT: TBD
TRIM: SCHLUTER JOLLY, COLOR TBD

TW5
WALL TILE COVE BASE
MFR: DALTILE
COLOR: HAUT MONDE
SIZE: 6X12
GROUT: TBD

TW6
WALL TILE COVE BASE
MFR: DALTILE
TYPE: FLAT TOP COVE BASE
COLOR: BISCUIT
FINISH: GLOSS
SIZE: 4X12
GROUT: TBD

TW7
WALL TILE COVE BASE
MFR: DALTILE
TYPE: BULLNOSED COVE BASE
COLOR: BISCUIT
FINISH: GLOSS
SIZE: 4X12
GROUT: TBD

## WALL BASE

WB1
RUBBER WALL BASE
MFR: BURKE
TYPE: RUBBER BASE WITH FOOT
SIZE: 4"
COLOR: ???

## WALL PROTECTION

WP1
ACROVYN PANEL
MFR: ACROVYN
TYPE: ???
HEIGHT: 5'-6" A.F.F.
COLOR: ???

## CASEWORK FINISHES

### PLASTIC LAMINATE

PL1
PLASTIC LAMINATE
MFR: NEVAMAR
COLOR: MIESIAN
FINISH: TBD

PL2
PLASTIC LAMINATE
MFR: NEVAMAR
COLOR: SUNRAY
FINISH: TEXTURED

### SOLID SURFACE

SS1
QUARTZ SOLID SURFACE
MFR: CORIAN
COLOR: PENDLE HILL

SS2
SOLID POLYMER SOLID SURFACE
MFR: CORIAN
COLOR: BONE

SS3
TRESPA
MFR: TRESPA
COLOR: PRICE GROUP 4

### WOOD FINISHES

WD1
WOOD VENEER
MFR: ???
COLOR: ???
FINISH: ???

## SPECIALTY FINISHES

### FABRIC

FA1
MFR: DESIGNTEX
NAME: GAMUT
FINISH: STONE

FA2
MFR: DESIGNTEX
NAME: GAMUT
FINISH: OLIVE

FA3
MFR: DESIGNTEX
NAME: GAMUT
FINISH: FINCH

FA4
MFR: DESIGNTEX
NAME: GAMUT
FINISH: CADET

FA5
MFR: DESIGNTEX
NAME: GAMUT
FINISH: NUTMEG

FA6
MFR: SOELBERG
NAME: MUTO
FINISH: LAMB'S EAR
THICKNESS: 1/2"

WOOD CEILING
MFR: RULON
NAME: LINEAR OPEN
FINISH: TBD

### RESIN / GLASS

RP1
ACRYLIC RESIN
MFR: 3 FORM
NAME: ???
FINISH: ???

RP2
ACRYLIC RESIN
MFR: 3 FORM
NAME: ???
FINISH: ???

GL1
GLASS PANEL
MFR: 3 FORM
NAME: ???
FINISH: ???


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## FINISH LEGEND

SCALE: 1/8" = 1'-0"


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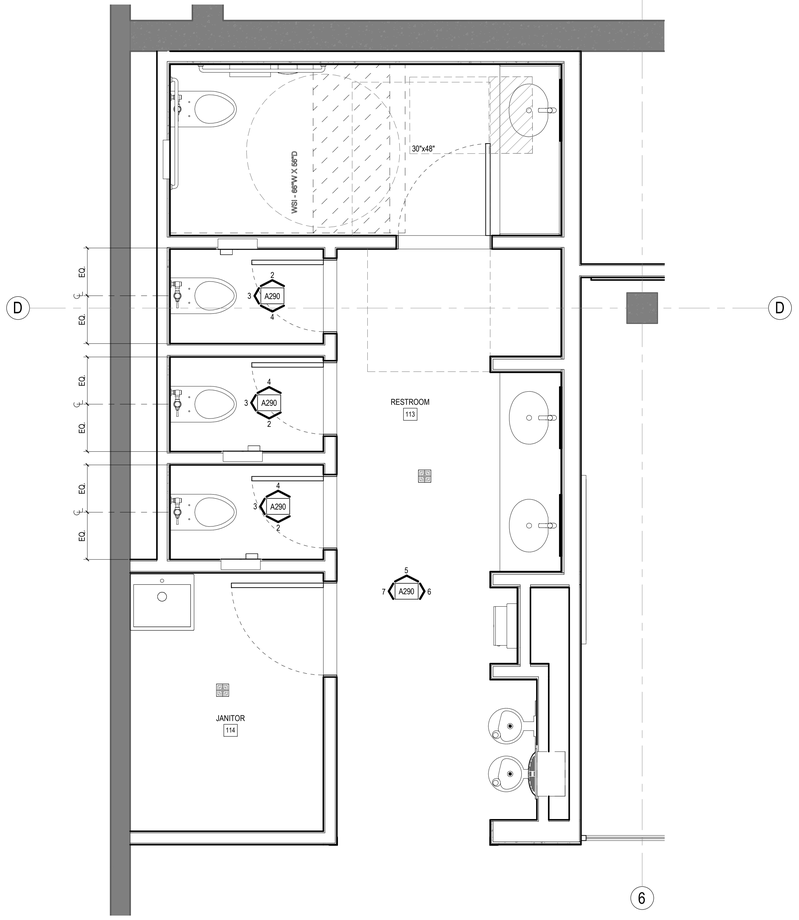
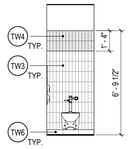


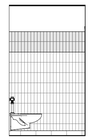

1 ENLARGED RR PLAN - LOWER LEVEL
1/2" = 1'-0"



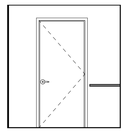
2 TOILET ROOM - S
1/4" = 1'-0"



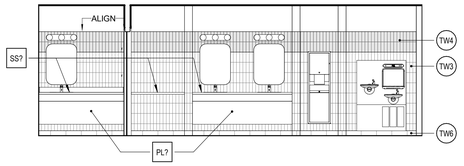

3 TOILET ROOM - W
1/4" = 1'-0"



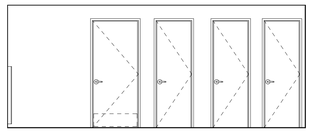
4 TOILET ROOM - N
1/4" = 1'-0"



5 Restroom 113 - N2
1/4" = 1'-0"




6 Restroom 113 - E2
1/4" = 1'-0"



7 Restroom 113 - W2
1/4" = 1'-0"

## SHEET NOTES

A. FOR TOILET ACCESSORIES, SEE SPECIFICATIONS FOR MORE INFORMATION.
B. FOR PLUMBING FIXTURES, SPD.
C. FOR ADDITIONAL INFORMATION ON FINISHES, REFER TO SHEETS A230 AND A240.
D. REFER TO SHEET G130 FOR MOUNTING HEIGHT FOR ALL RESTROOM FIXTURES AND ACCESSORIES.

## KEYNOTES

## LEGEND

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## ENLARGED TOILET ROOM PLANS AND ELEVATIONS

SCALE: As indicated

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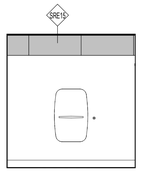
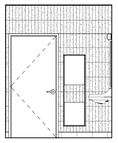
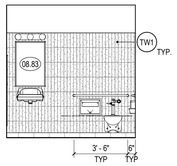


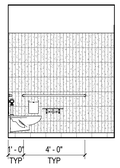

2 FAMILY RESTROOM 308
1/4" = 1'-0"



3 FAMILY RESTROOM 308
1/4" = 1'-0"




4 FAMILY RESTROOM 308
1/4" = 1'-0"

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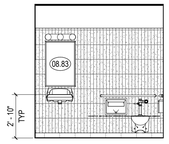
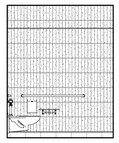
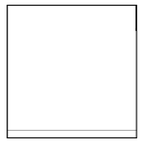
1/4" = 1'-0"



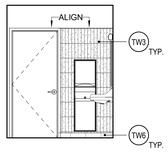

6 RESTROOM 309
1/4" = 1'-0"



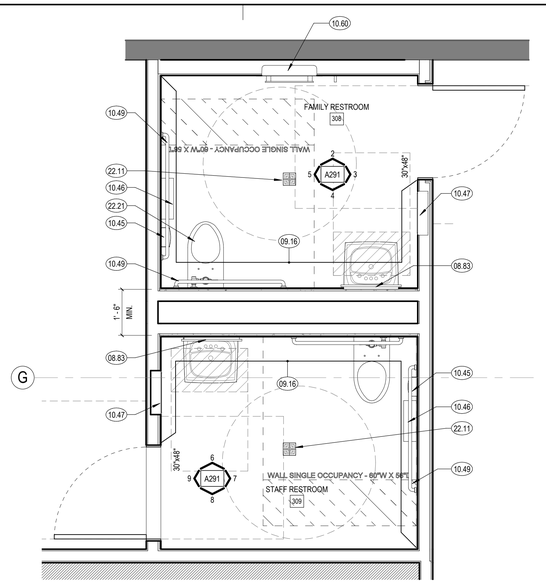
7 RESTROOM 309
1/4" = 1'-0"



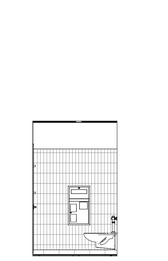
8 RESTROOM 309
1/4" = 1'-0"



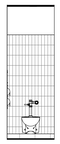

9 RESTROOM 309
1/4" = 1'-0"



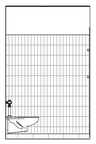

1 MAIN LEVEL - ENLARGED FAMILY AND STAFF RR PLAN
1/2" = 1'-0"



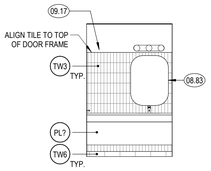
11 TOILET ROOM 320B - N
1/4" = 1'-0"



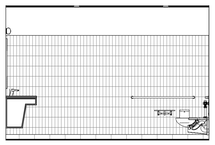
12 TOILET ROOM 320B - W
1/4" = 1'-0"



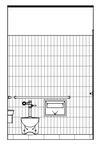
13 TOILET ROOM 320B - S
1/4" = 1'-0"



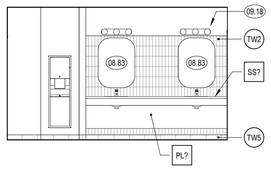

14 TOILET ROOM 320 - E
1/4" = 1'-0"



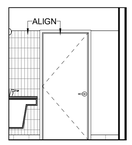
15 TOILET ROOM 320 - S
1/4" = 1'-0"



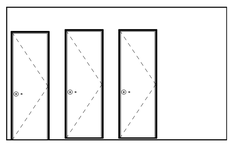
16 TOILET ROOM - 320 - W
1/4" = 1'-0"



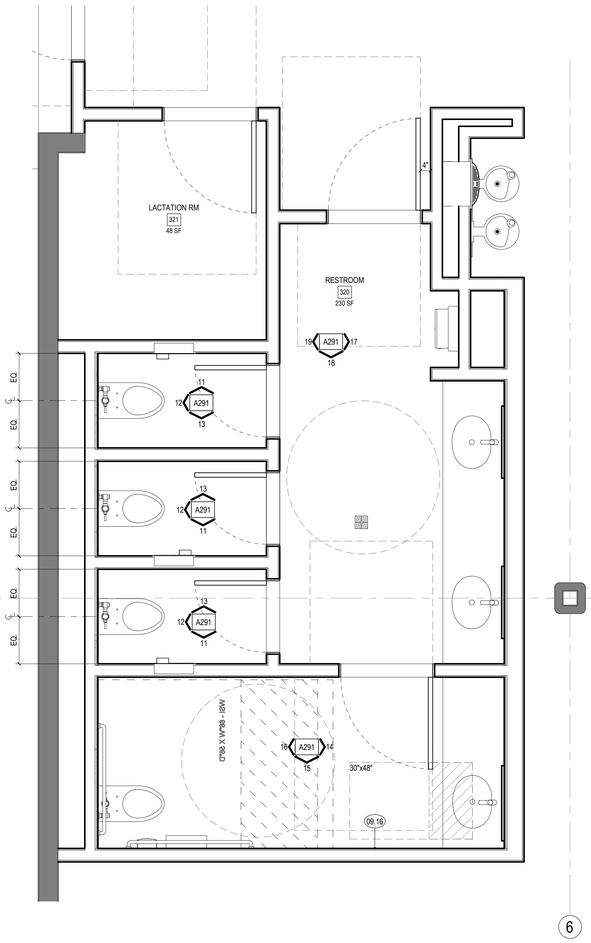

17 WOMEN'S TOILET 323
1/4" = 1'-0"




18 WOMEN'S TOILET 323
1/4" = 1'-0"



19 WOMEN'S TOILET 323
1/4" = 1'-0"




10 ENLARGED RR PLAN - MAIN LEVEL
1/2" = 1'-0"

## SHEET NOTES

A. FOR TOILET ACCESSORIES, SEE SPECIFICATIONS FOR MORE INFORMATION.
B. FOR PLUMBING FIXTURES, SPD.
C. FOR ADDITIONAL INFORMATION ON FINISHES, REFER TO SHEETS A230 AND A240.
D. REFER TO SHEET G130 FOR MOUNTING HEIGHT FOR ALL RESTROOM FIXTURES AND ACCESSORIES.

## KEYNOTES

| | |
|---|---|
| 08.83 | MIRROR |
| 09.16 | WALL TILE, SEE ELEVATIONS FOR TYPE |
| 09.17 | METAL TRIM, SEE FINISH SCHEDULE |
| 09.18 | USE TILE WITH FINISHED EDGE |
| 10.45 | SURFACE MOUNT SANITARY NAPKIN DISPOSAL |
| 10.46 | SURFACE MOUNT TOILET PAPER DISPENSER |
| 10.47 | SEMI RECESSED COMBINATION PAPER TOWEL AND WASTE RECEPTACLE |
| 10.49 | GRAB BAR, 42" MIN AT REAR WALL & 48" MIN AT SIDE WALL |
| 10.60 | VERTICAL RECESSED MOUNT BABY CHANGING STATION |
| 22.11 | FLOOR DRAIN |
| 22.21 | TOILET WITH MANUAL FLUSH. REFER TO PLUMBING DWGS FOR ADDITIONAL INFORMATION |

## LEGEND

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| PROJECT NO. | 2111010 |
| DATE: | 01-08-2024 |

SHEET TITLE:

**ENLARGED TOILET ROOM PLANS AND ELEVATIONS**

SCALE: As indicated

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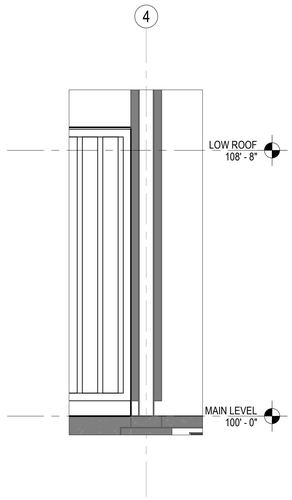
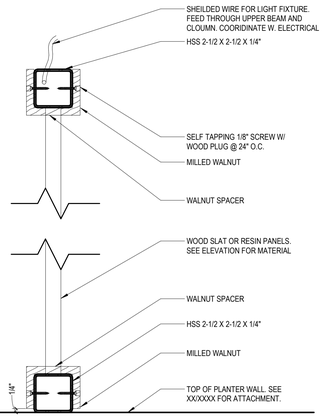
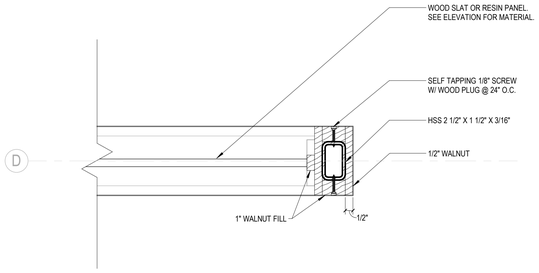


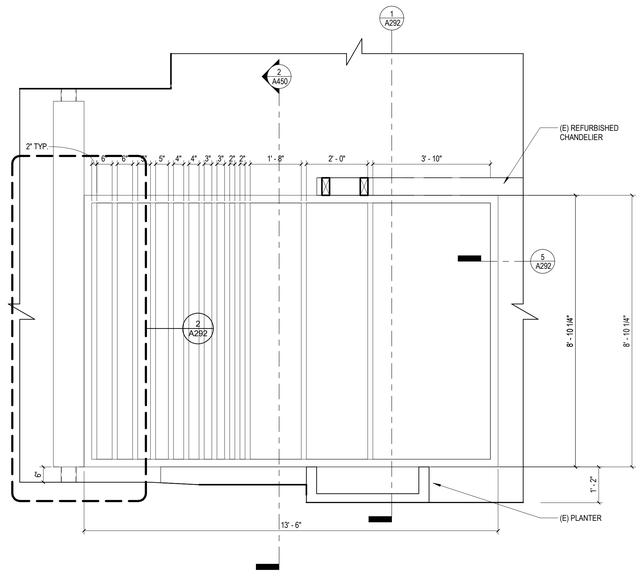




1 LIVING ROOM ELEMENT - SECTION
3" = 1'-0"

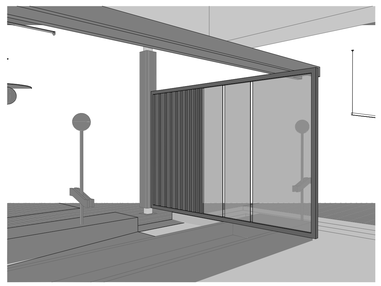
2 Section 92
1/2" = 1'-0"



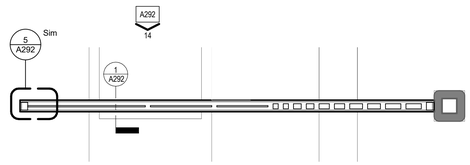

5 LIVING ROOM ELEMENT - EDGE DETAIL
3" = 1'-0"




14 LIVING ROOM ELEMENT - ELEVATION - S
1/2" = 1'-0"



18 LIVING ROOM ELEMENT (FOR REFERENCE ONLY)




6 LIVING ROOM ELEMENT - ENLARGED PLAN
1/2" = 1'-0"

## SHEET NOTES

## KEYNOTES

## LEGEND

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## ENLARGED PLANS

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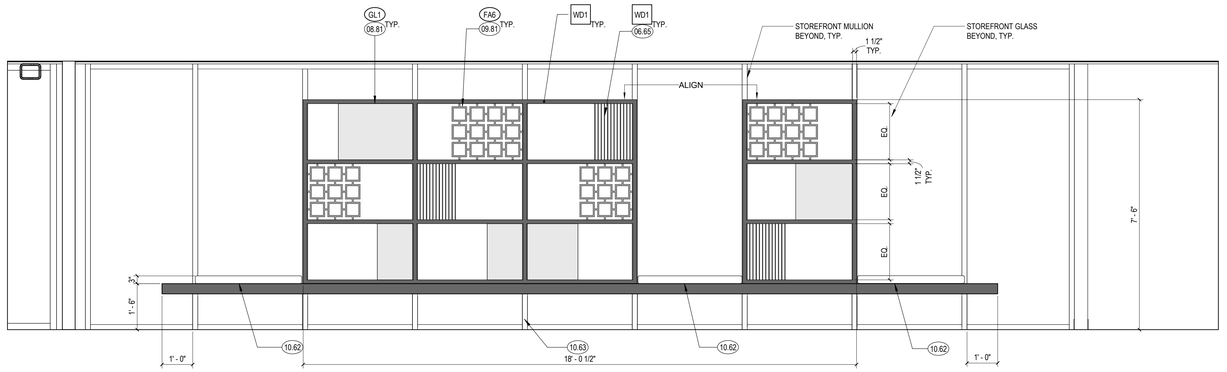
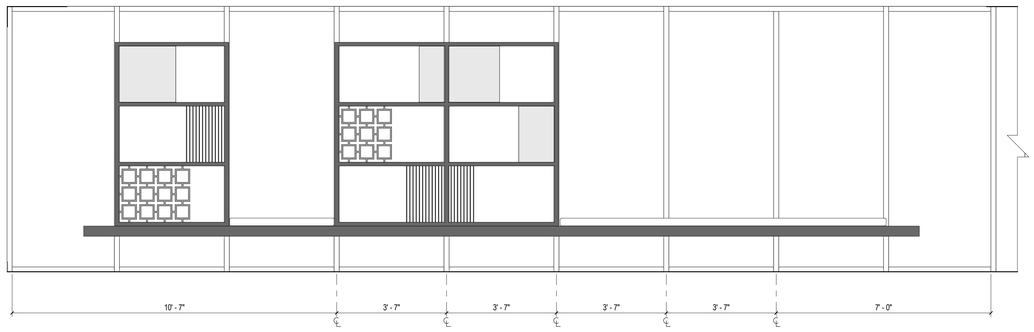
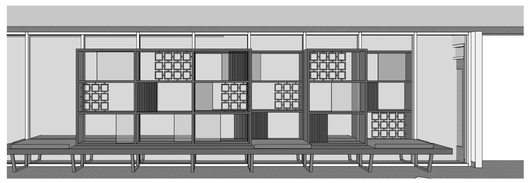


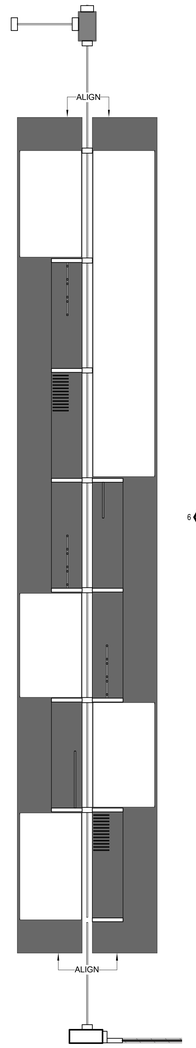

5 TEEN CASEWORK WALL - ELEVATION - E
1/2" = 1'-0"




6 TEEN CASEWORK WALL - ELEVATION - W
1/2" = 1'-0"



12 TEEN CASEWORK WALL - 3D VIEW (FOR REFERENCE ONLY)




A293 5

6 A293

4 TEEN CASEWORK WALL - ENLARGED PLAN
1/2" = 1'-0"

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## ENLARGED PLANS

SCALE: 1/2" = 1'-0"

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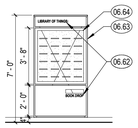
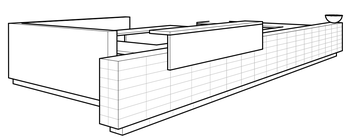
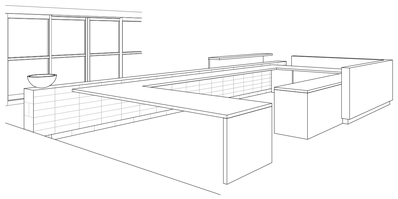


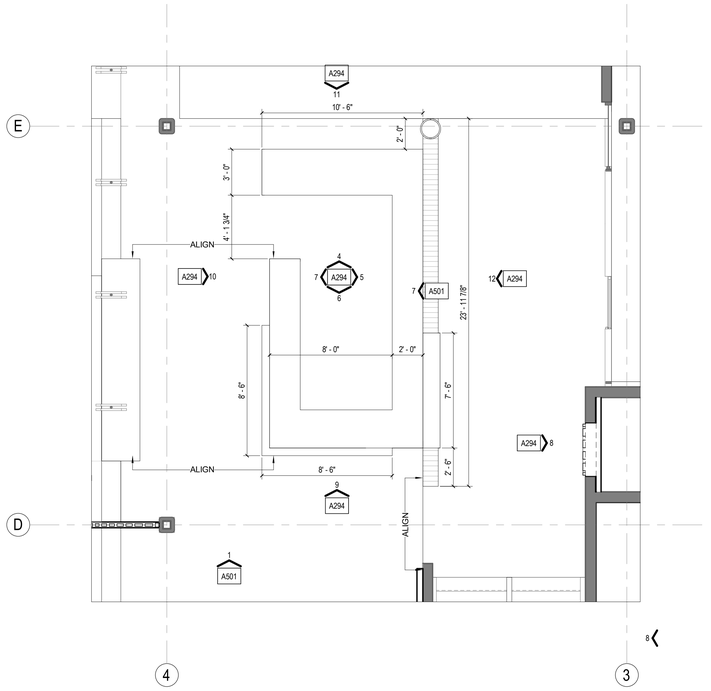

8 LIBRARY OF THINGS DISPLAY
1/4" = 1'-0"



2 SERVICE DESK - FOR REFERENCE ONLY



3 SERVICE DESK - FOR REFERENCE ONLY



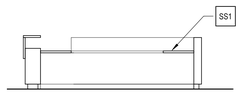

1 ENLARGED FOOR PLAN - RECEPTION DESK
1/4" = 1'-0"



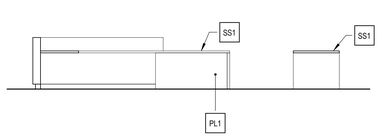
4 SERVICE DESK INTERIOR
1/4" = 1'-0"



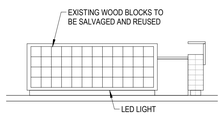

5 SERVICE DESK INTERIOR
1/4" = 1'-0"



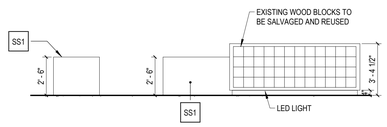

6 SERVICE DESK INTERIOR
1/4" = 1'-0"




7 SERVICE DESK INTERIOR
1/4" = 1'-0"



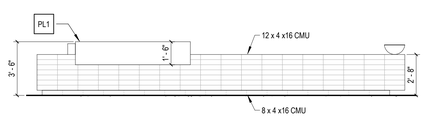

9 SERVICE DESK EXTERIOR
1/4" = 1'-0"




10 SERVICE DESK EXTERIOR
1/4" = 1'-0"




11 SERVICE DESK EXTERIOR
1/4" = 1'-0"




12 SERVICE DESK EXTERIOR
1/4" = 1'-0"

## SHEET NOTES

## KEYNOTES

06.62 3- DIMENSIONAL LETTERING ON DISPLAY CASE
06.63 PLEXIGLASS COVER OVER DISPLAY CASE
06.64 FABRIC-COVERED TACK PANEL

## LEGEND

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ENLARGED PLANS

SCALE: 1/4" = 1'-0"

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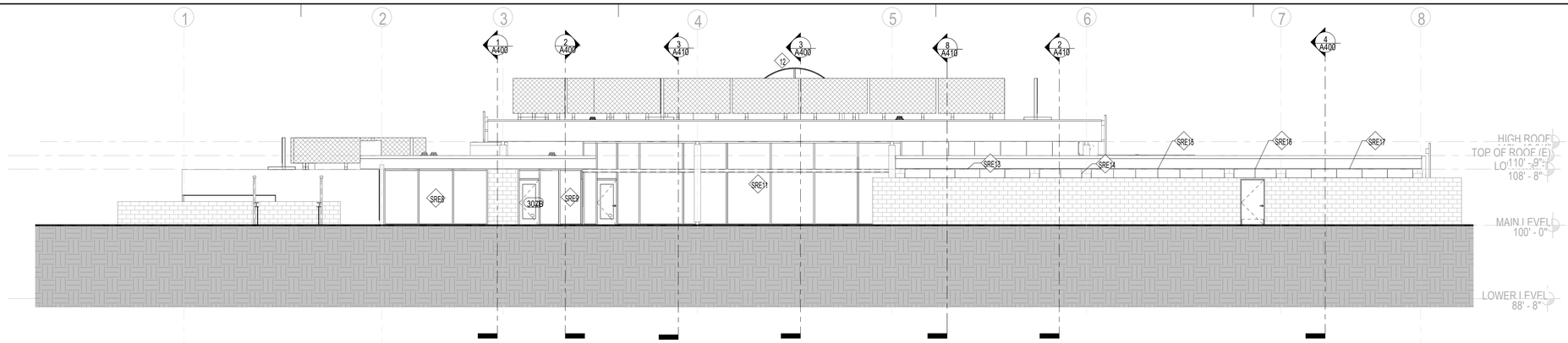
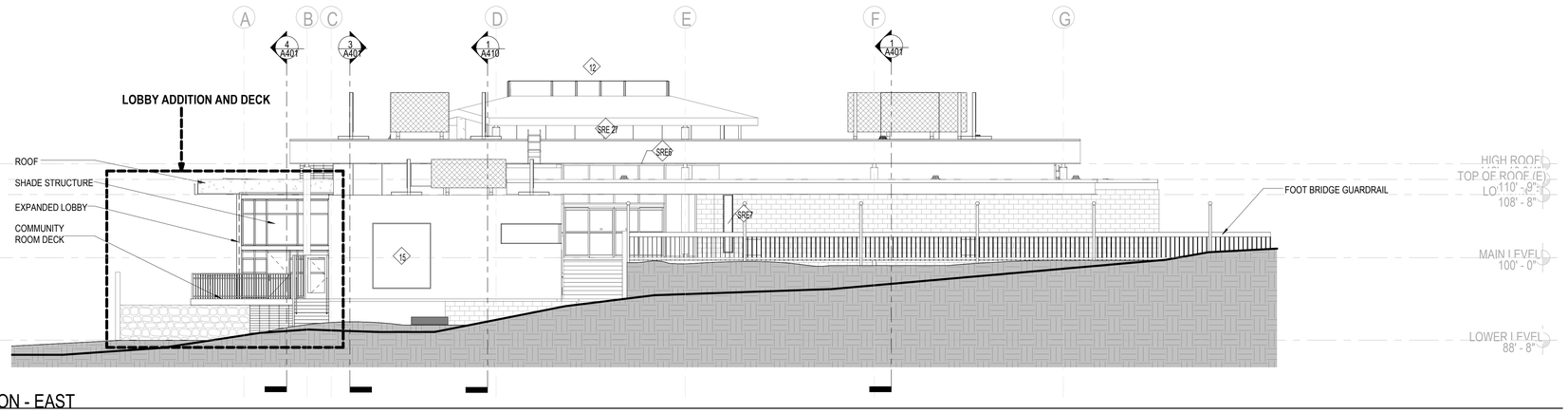
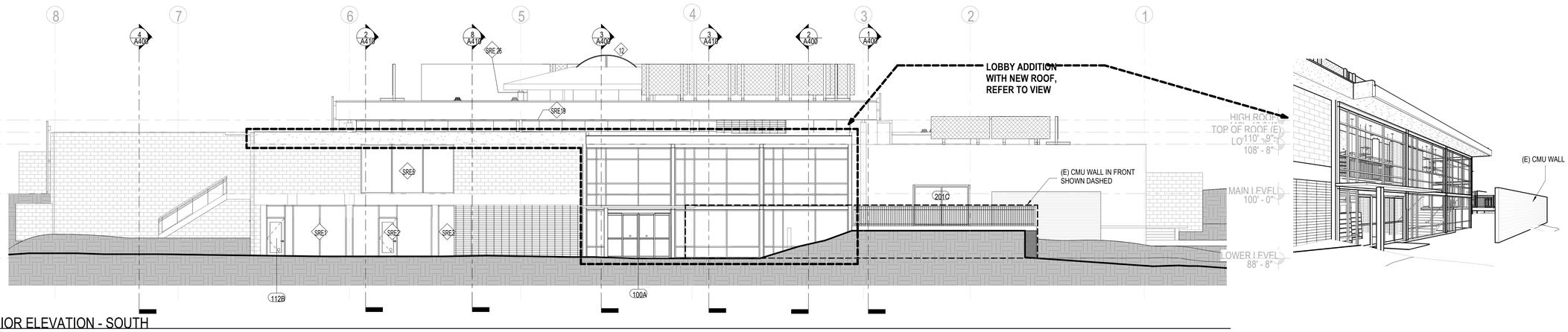


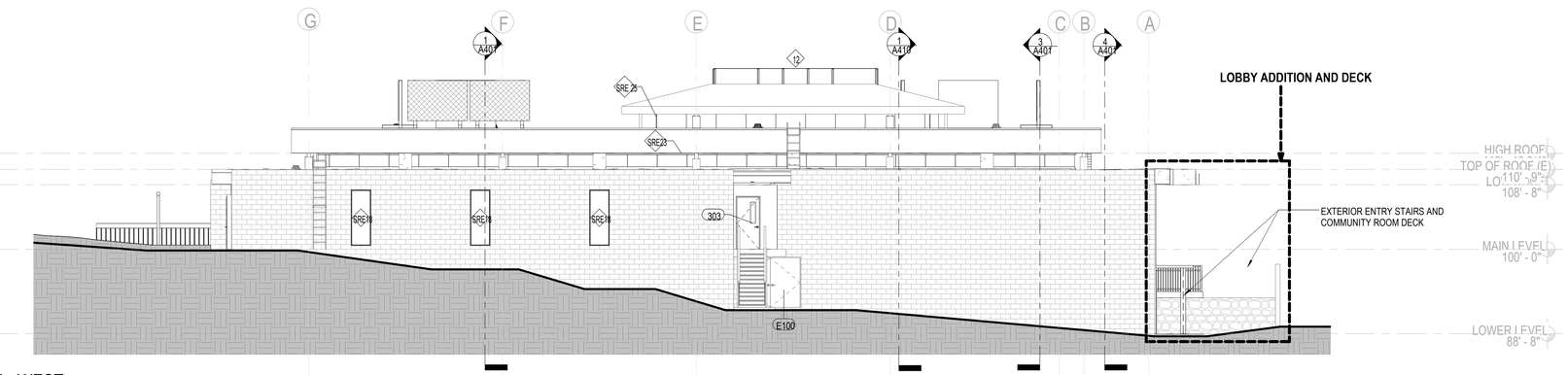

1 EXTERIOR ELEVATION - NORTH
1/8" = 1'-0"




2 EXTERIOR ELEVATION - EAST
1/8" = 1'-0"




3 EXTERIOR ELEVATION - SOUTH
1/8" = 1'-0"




4 EXTERIOR ELEVATION - WEST
1/8" = 1'-0"

## SHEET NOTES

A. PROVIDE ANTI-GRAFFITI COATING TO ALL ABOVE GRADE EXTERIOR EXPOSED CONCRETE, C... PAINTED CEMENT PLASTER. ALIGN TERMINATION OF COATING UNIFORMLY TO NEAREST HOR... CLADDING JOINT, CHANGE IN PLANE, OR TRANSITION NOT LESS THAN 8'-0" A.F.F., U.N.O.

B. ALL EXPOSED STRUCTURAL STEEL SHALL RECEIVE FIELD-APPLIED HIGH PERFORMANCE COA... COLOR TO BE SELECTED BY ARCHITECT. SEE SPECIFICATIONS.

C. ALL EXISTING WINDOWS, CASINGS, AND TRIMS TO BE DEMOLISHED AND REPLACED TO MATC... EXISTING, U.N.O.

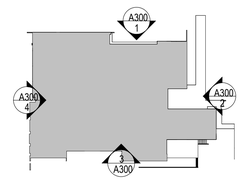
D. FOR LOCATION OF CMU WALLS, SEE LEGEND. ALL OTHER EXTERIOR WALLS ARE CEMENT PL...

## KEYNOTES

## LEGEND

| | |
|---|---|
| ### | DOOR TAG |
| E### | EXISTING (E) DOOR TO REMAIN |
| S# | WINDOW TAG |
| SRE# | STOREFRONT TO REPLACE EXISTING (E) WINDOW IN KIND |
| | (E) CMU |
| | 4X8X16 CMU IN STACKED BOND |

## KEY PLAN

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## EXTERIOR ELEVATIONS

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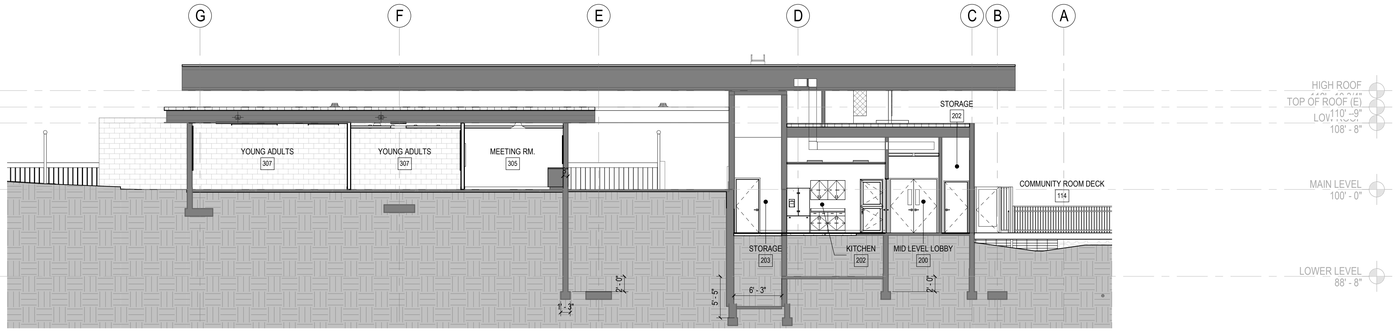
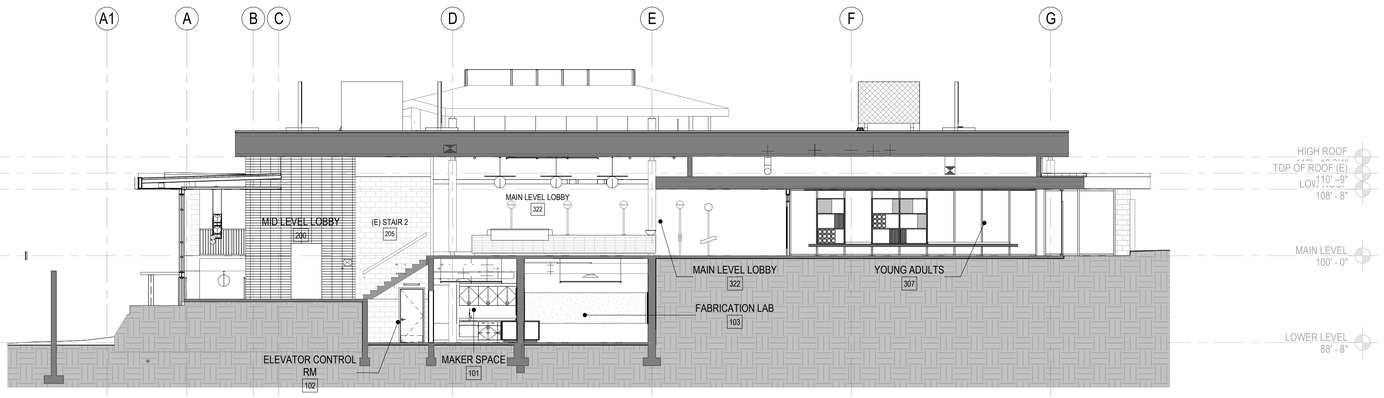
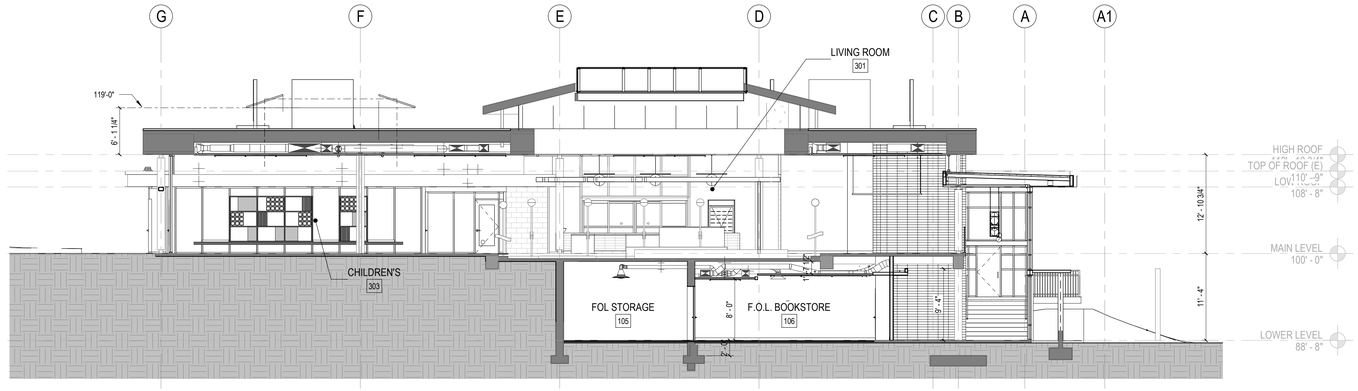


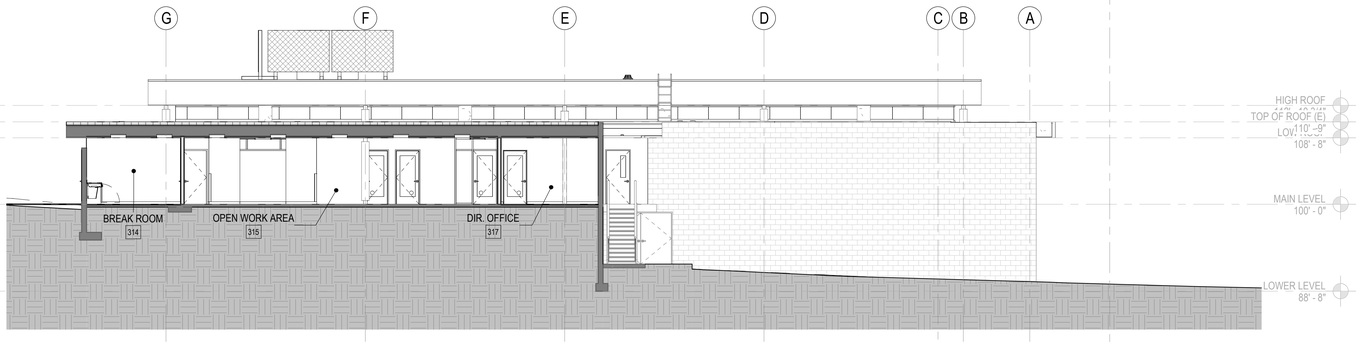

1 BUILDING SECTION 1, NORTH - SOUTH
1/8" = 1'-0"




2 BUILDING SECTION 2, NORTH - SOUTH
1/8" = 1'-0"




3 BUILDING SECTION 3, NORTH-SOUTH
1/8" = 1'-0"




4 BUILDING SECTION 4, NORTH-SOUTH
1/8" = 1'-0"

## SHEET NOTES

A. CONTRACTOR TO VERIFY ALL CONDITIONS PRIOR TO WORK.
B. PROVIDE ACCESS PANELS AS REQUIRED PER APPLICABLE CODES FOR MAINTENANCE ACCESS TO INSTALLED MEP EQUIPMENT. PROVIDE STAINLESS STEEL ACCESS PANELS AT CERAMIC TILE LOCATIONS. COORDINATE TYPES AND LOCATIONS OF WALL ACCESS PANELS WITH ARCHITECT PRIOR TO INSTALLATION.
C. BLOCKING OR BACKING SHALL BE PROVIDED IN PARTITIONS AS REQUIRED FOR WALL ATTACHED ITEMS. SEE DETAIL XXX FOR BACKING SCHEDULE FOR CABINETRY, SHELVING, MARKER BOARDS, CHAIR RAILS, GRAB BARS, SHOWER SEATS, HANDRAILS, FIXTURES, EQUIPMENT, FURNISHINGS AND OTHER ITEMS AS REQUIRED.
D. MATCH EXISTING STUD DIMENSION WHERE NEW PARTITION FRAMING ALIGNS WITH EXISTING PARTITION. STUD SIZE INDICATED IN WALL TYPE NEEDS TO BE VERIFIED AT THESE CONDITIONS.
E. NEW WALLS ARE DIMENSIONED TO FACE OF STUD
F. ADJACENT IN-LINE PARTITIONS OF DIFFERENT TYPES SHALL BE CONSTRUCTED SUCH THAT EXPOSED FINISH SURFACES ARE FLUSH AND CONTINUOUS.
G. REPETITIVE FEATURES ARE NOT DRAWN TO THEIR ENTIRETY AND SHALL BE COMPLETELY PROVIDED AS IF DRAWN IN FULL.
H. PATCH AND REPAIR EXISTING WALLS WHERE DAMAGED DUE TO REMOVAL OF WOOD TRIM, HANDRAILS, AND OTHER ITEMS.
I. ALIGN NEW WALLS TO EXISTING STRUCTURAL GRID COLUMNS. V.I.F.

## KEYNOTES

## LEGEND

- PARTITION, FLOOR, OR ROOF SEE PARTITION TYPES ON SHEET A800
- EXISTING (E) WALL, FLOOR, OR ROOF TO REMAIN
- F1.AH — WALL TAG
- ### — DOOR TAG
- E### — EXISTING (E) DOOR TO REMAIN
- S# — WINDOW TAG
- SRE# — STOREFRONT TO REPLACE EXISTING (E) WINDOW IN KIND
- CMU

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PROJECT TITLE:

# ALTADENA MAIN LIBRARY

600 E MARIPOSA STREET
ALTADENA, CA 91001

| | |
|---|---|
| PROJECT NO. | 2111010 |
| DATE: | 01-08-2024 |

SHEET TITLE:

**BUILDING SECTIONS**

SCALE: 1/8" = 1'-0"

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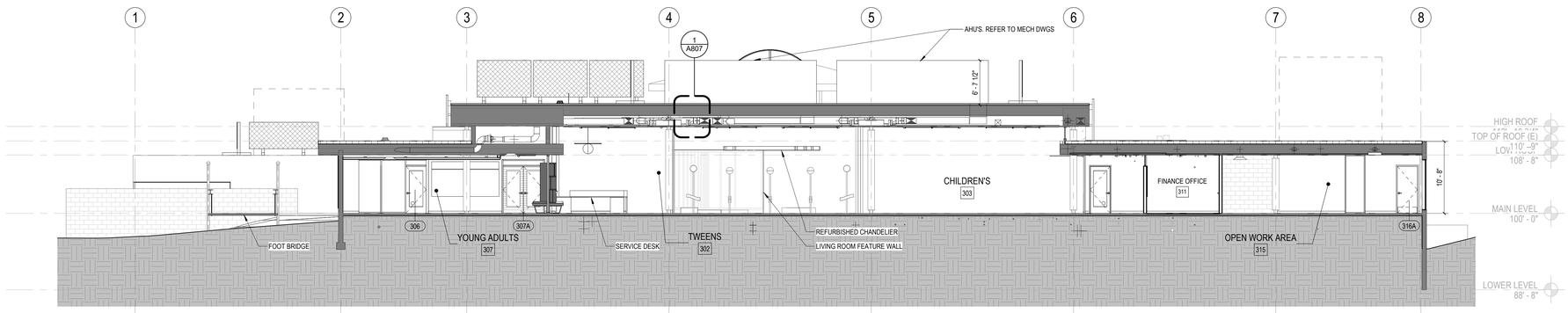
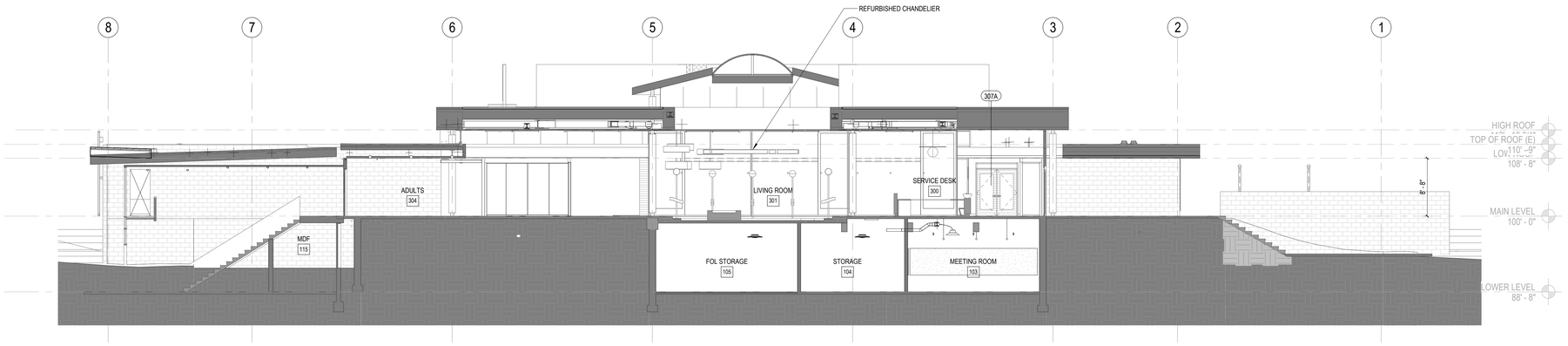
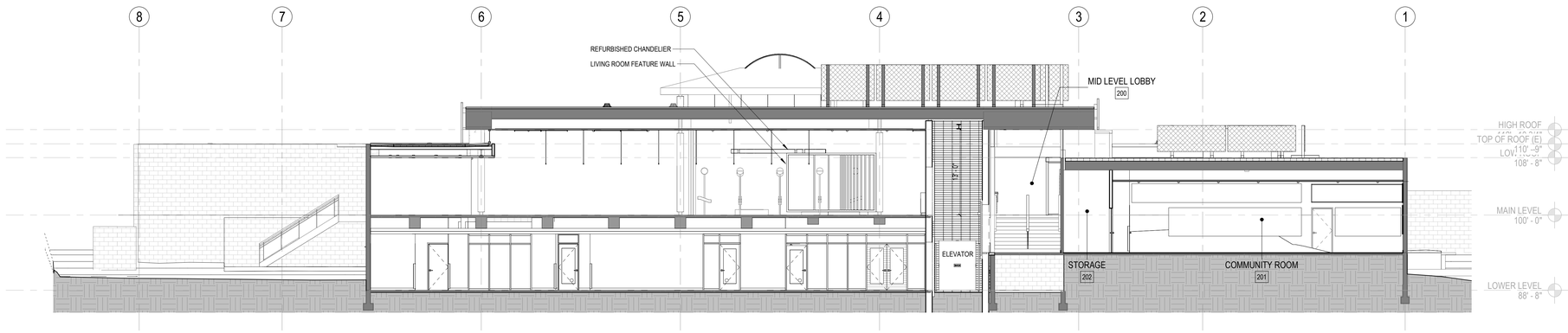


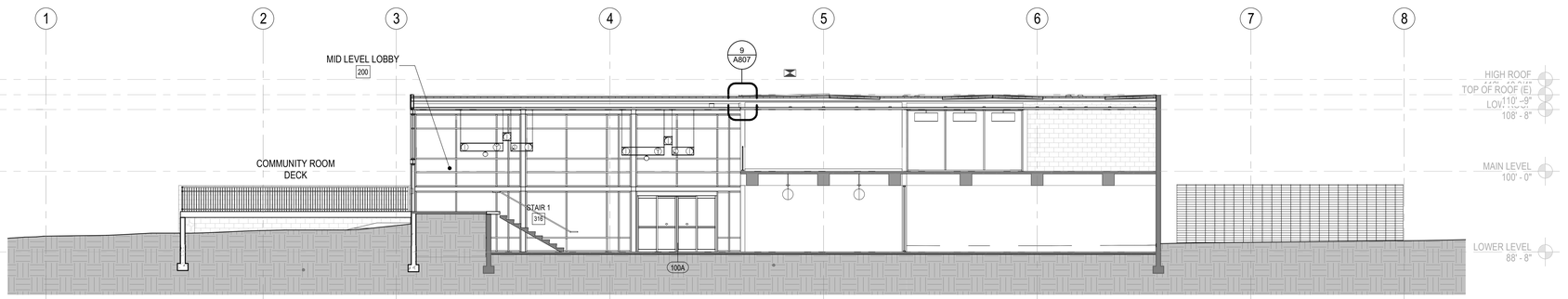

1 BUILDING SECTION 1, EAST-WEST
1/8" = 1'-0"




2 BUILDING SECTION 2, EAST - WEST
1/8" = 1'-0"




3 BUILDING SECTION 3, EAST - WEST
1/8" = 1'-0"




4 BUILDING SECTION 4, EAST - WEST
1/8" = 1'-0"

## SHEET NOTES

A. CONTRACTOR TO VERIFY ALL CONDITIONS PRIOR TO WORK.
B. PROVIDE ACCESS PANELS AS REQUIRED PER APPLICABLE CODES FOR MAINTENANCE ACCESS TO INSTALLED MEP EQUIPMENT. PROVIDE STAINLESS STEEL ACCESS PANELS AT CERAMIC TILE LOCATIONS. COORDINATE TYPES AND LOCATIONS OF WALL ACCESS PANELS WITH ARCHITECT PRIOR TO INSTALLATION.
C. BLOCKING OR BACKING SHALL BE PROVIDED IN PARTITIONS AS REQUIRED FOR WALL ATTACHED ITEMS. SEE DETAIL XXX FOR BACKING SCHEDULE FOR CABINETRY, SHELVING, MARKER BOARDS, CHAIR RAILS, GRAB BARS, SHOWER SEATS, HANDRAILS, FIXTURES, EQUIPMENT, FURNISHINGS AND OTHER ITEMS AS REQUIRED.
D. MATCH EXISTING STUD DIMENSION WHERE NEW PARTITION FRAMING ALIGNS WITH EXISTING PARTITION. STUD SIZE INDICATED IN WALL TYPE NEEDS TO BE VERIFIED AT THESE CONDITIONS.
E. NEW WALLS ARE DIMENSIONED TO FACE OF STUD
F. ADJACENT IN-LINE PARTITIONS OF DIFFERENT TYPES SHALL BE CONSTRUCTED SUCH THAT EXPOSED FINISH SURFACES ARE FLUSH AND CONTINUOUS.
G. REPETITIVE FEATURES ARE NOT DRAWN TO THEIR ENTIRETY AND SHALL BE COMPLETELY PROVIDED AS IF DRAWN IN FULL.
H. PATCH AND REPAIR EXISTING WALLS WHERE DAMAGED DUE TO REMOVAL OF WOOD TRIM, HANDRAILS, AND OTHER ITEMS.
I. ALIGN NEW WALLS TO EXISTING STRUCTURAL GRID COLUMNS. V.I.F.

## KEYNOTES

## LEGEND

- PARTITION, FLOOR, OR ROOF SEE PARTITION TYPES ON SHEET A800
- EXISTING (E) WALL, FLOOR, OR ROOF TO REMAIN
- F1.AH — WALL TAG
- ### — DOOR TAG
- E### — EXISTING (E) DOOR TO REMAIN
- S# — WINDOW TAG
- SRE# — STOREFRONT TO REPLACE EXISTING (E) WINDOW IN KIND
- CMU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PROJECT TITLE:

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| PROJECT NO. | 2111010 |
| DATE: | 01-08-2024 |

SHEET TITLE:

## BUILDING SECTIONS

SCALE: 1/8" = 1'-0"


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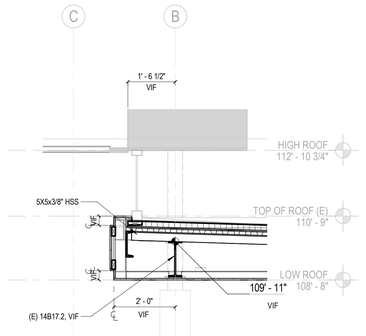
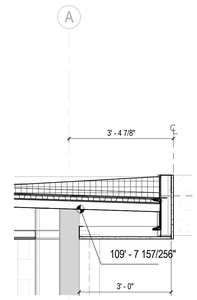
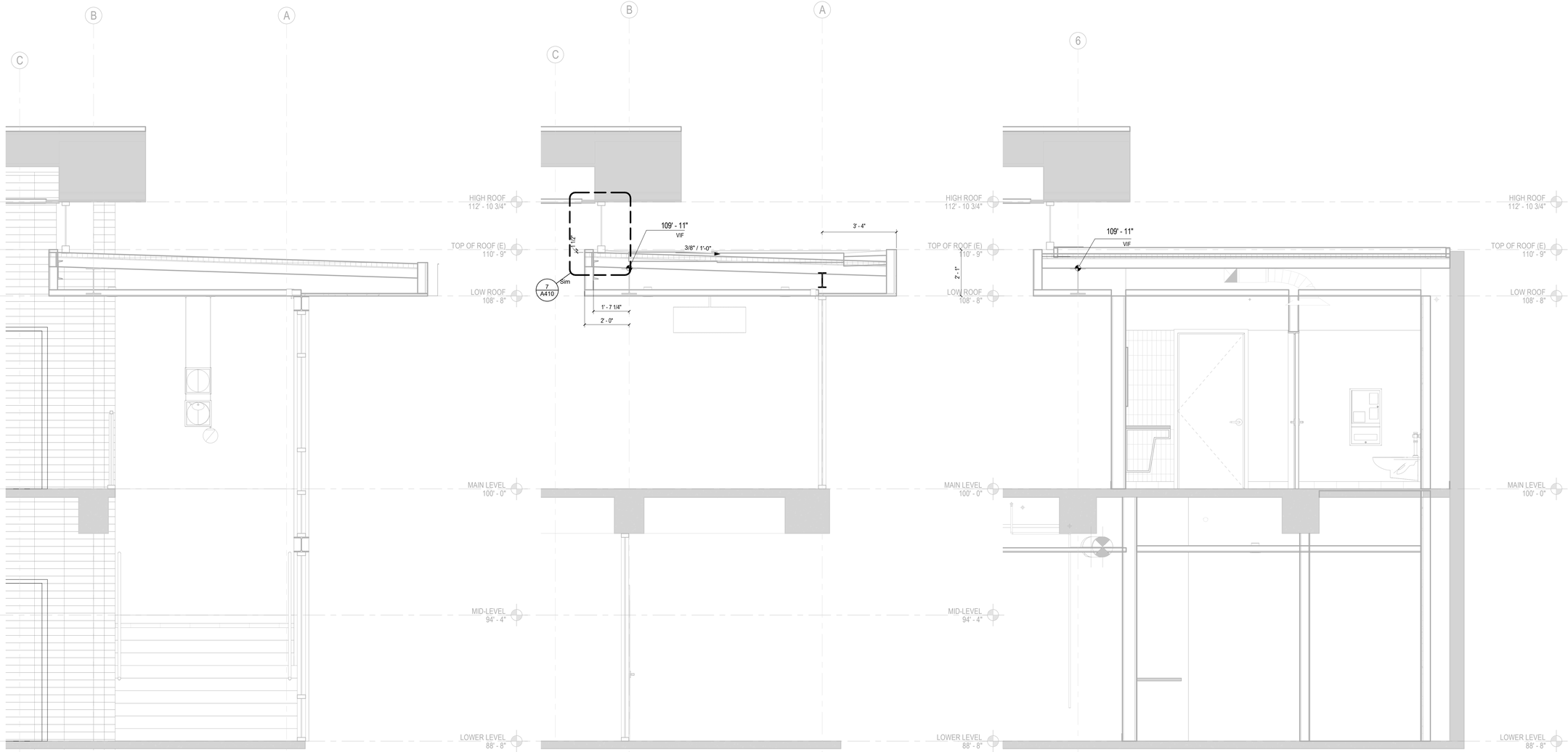



7 WALL SECTION DETAIL @ CLERESTORY
1/2" = 1'-0"




8 WALL SECTION DETAIL @ PARAPET
1/2" = 1'-0"




3 WALL SECTION - LOBBY
1/2" = 1'-0"

2 WALL SECTION AT ROOF RENOVATION - SOUTH
1/2" = 1'-0"

1 WALL SECTION AT ROOF RENOVATION - WEST
1/2" = 1'-0"

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WALL SECTIONS

SCALE: 1/2" = 1'-0"

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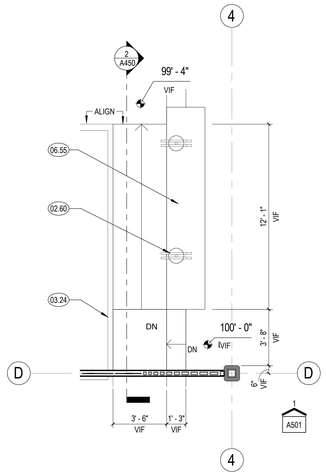
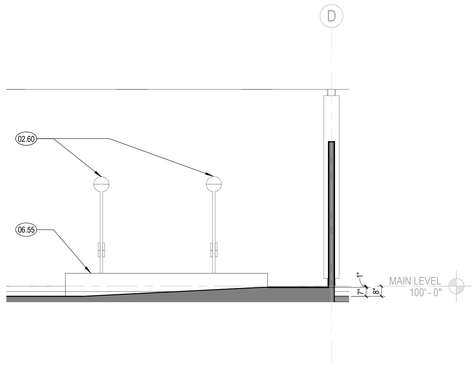
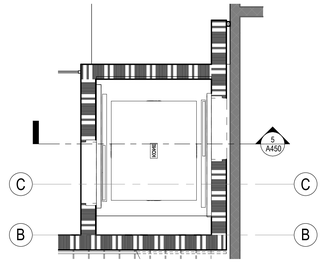
A410



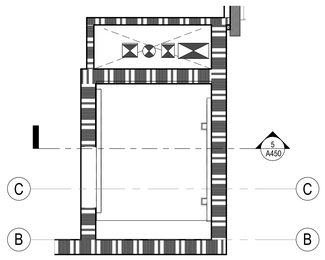

1 ENLARGED PLAN - SLOPED WALKWAY @ MAIN LEVEL
1/4" = 1'-0"



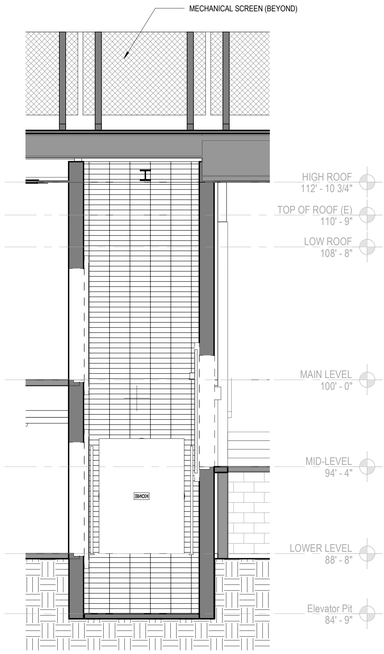

2 SECTION @ SLOPED WALKWAY
1/4" = 1'-0"



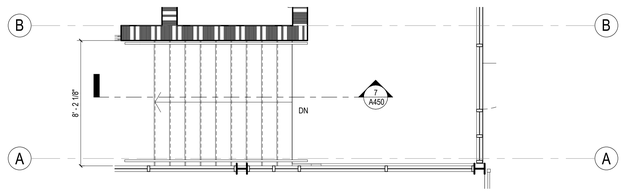

3 ENLARGED PLAN - ELEVATOR @ LOWER LEVEL
1/4" = 1'-0"



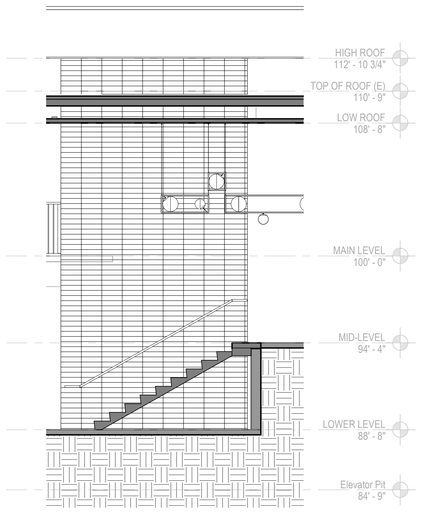

4 ENLARGED PLAN - ELEVATOR @ MAIN LEVEL
1/4" = 1'-0"




5 ELEVATOR SECTION E-W
1/4" = 1'-0"




6 ENLARGE PLAN - STAIR 1A
1/4" = 1'-0"




7 STAIR 1A SECTION - E-W
1/4" = 1'-0"

## KEYNOTES

| | |
|---|---|
| 02.60 | (E) LIGHT POST AND HANDRAIL |
| 03.24 | EXISTING CONCRETE PLANTERS |
| 06.55 | WOOD BENCH. REFER TO CASEWORK DETAILS FOR ADDITIONAL INFORMATION. |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**STAIR AND ELEVATOR SECTIONS, ENLARGED PLANS, AND DETAILS**

SCALE: 1/4" = 1'-0"


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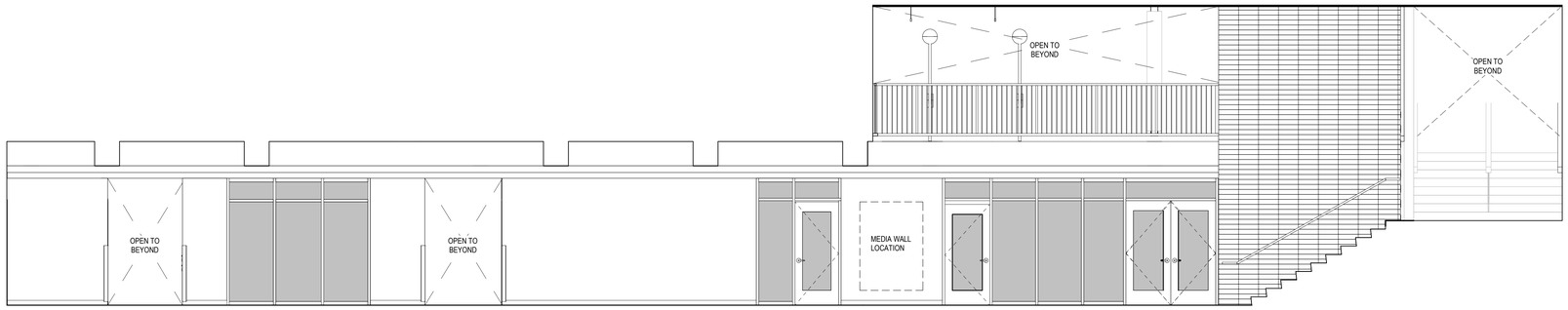
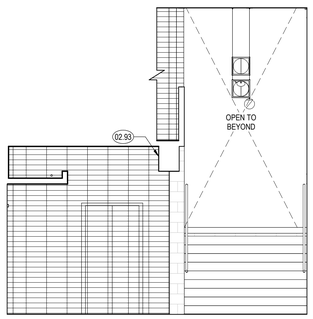
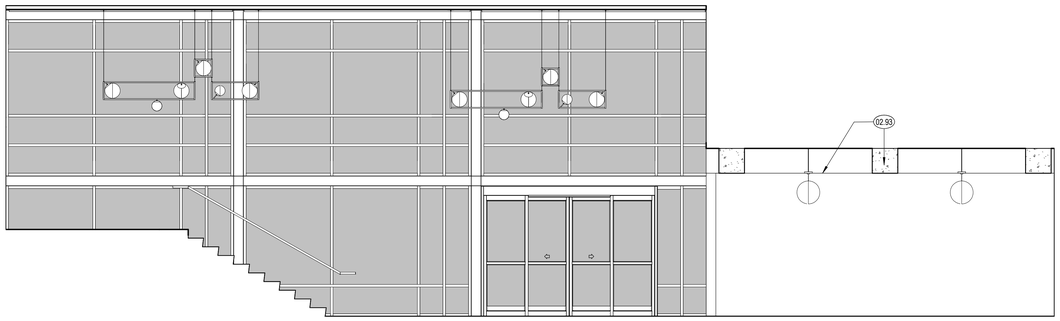


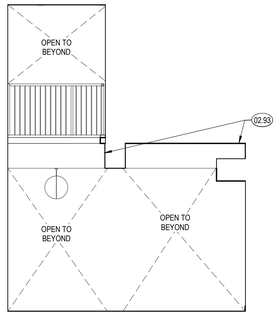

1 LOWER LEVEL - LOBBY 100 - N
1/4" = 1'-0"



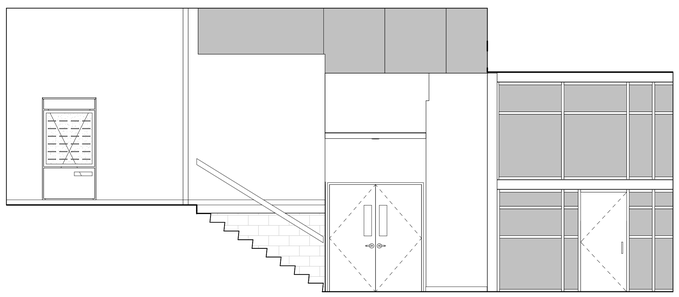

2 LOWER LEVEL - LOBBY 100 - E
1/4" = 1'-0"



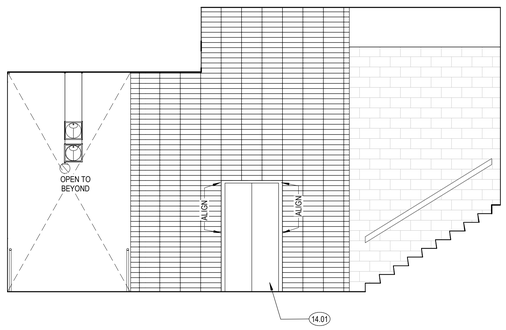

3 LOWER LEVEL - LOBBY 100 - S
1/4" = 1'-0"




4 LOWER LEVEL - LOBBY 100 - W
1/4" = 1'-0"



5 MID LEVEL - LOBBY 200 - E
1/4" = 1'-0"




6 MID LEVEL - LOBBY 200 - W
1/4" = 1'-0"

## SHEET NOTES

A. SEE SHEET A240 FOR FINISH LEGEND
B. SEE FINISH PLANS FOR FLOOR AND WALL FINISHES
C. SEE SHEET A000 FOR TYPICAL SYMBOLS AND ABBREVIATIONS.
D. FOR INTERIOR DOOR FRONT TYPE SEE A600
E. FOR WINDOW INDENTIFICATION TAG SEE FLOOR PLANS. FOR WINDOW DIMENSIONS AND DETAILS REFER TO WINDOW SCHEDULE SHEETS
F. SEE DETAILS IN G130 SHEETS A10.90 FOR TYPICAL MOUNTING HEIGHTS, LOCATIONS, GRAB BAR SIZE AND OTHER ACCESSIBILITY DETAIL
G. ALL ELECTRICAL OUTLETS ABOVE CASEWORK TO BE ORIENTED HORIZONTALLY
H. ELECTRICAL OUTLETS SHOWN FOR REFERENCE. SED FOR LOCATIONS
I. ALL CASEWORK TO BE LOCKABLE U.N.O.
J. FURNTIURE SHOWN FOR REFERENCE ONLY
K. ALL WALL BASE IS RUBBER BASE, WB, AS NOTED IN FINISH LEGEND, UNO
L. FOR FINISH MATERIALS, SEE FINISH LEGEND & INTERIOR FINISH SCHEDULE SHEET A240.
M. ALL GLASS WALL SYSTEMS TO RECEIVE WINDOW FILM WITH CUSTOM FINISH
N. ALL WALLS TO BE PAINTED IN PT1 U.N.O.
O. ALL INTERIOR DOOR AND WINDOW TRIM TO BE PAINTED UNO. SEE DORR SCHEDULE.
P. FOR BACKING DETAILS, REFER TO BACKING PLATE SCHEDULE ____
Q. ALL DIMENSIONS ARE TO FACE OF FINISH UNO., FOR FRAMING DIMENSIONS SEE DIMENSION PLANS

## KEYNOTES

02.93 (E) BEAM
14.01 ELEVATOR DOORS

## LEGEND

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**INTERIOR ELEVATIONS**

SCALE: As indicated

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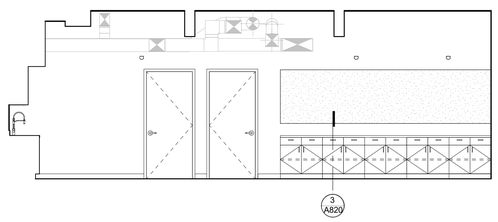
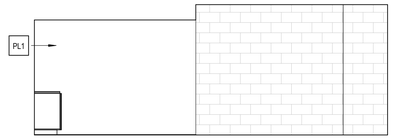
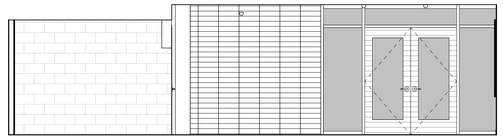


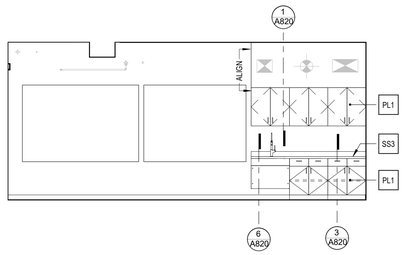

1 LOWER LEVEL - MAKER SPACE 101 - N
1/4" = 1'-0"



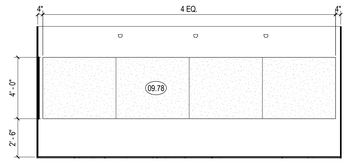

2 LOWER LEVEL - MAKER SPACE 101 - E
1/4" = 1'-0"



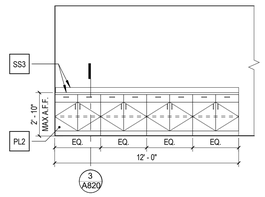
3 LOWER LEVEL - MAKER SPACE 101 - S
1/4" = 1'-0"



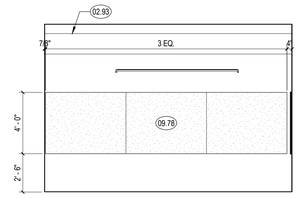

4 LOWER LEVEL - MAKER SPACE 101 - W
1/4" = 1'-0"



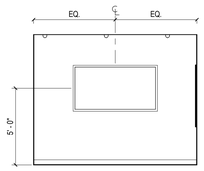

5 LOWER LEVEL - FABRICATION LAB 103 - N
1/4" = 1'-0"



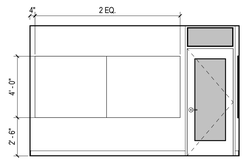

6 LOWER LEVEL - FABRICATION LAB 103 - S
1/4" = 1'-0"



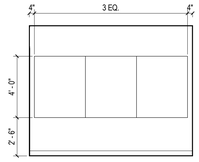

7 LOWER LEVEL - FABRICATION LAB 103 - W
1/4" = 1'-0"



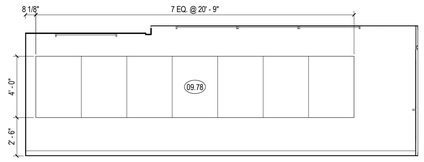

14 LOWER LEVEL - MEETING ROOM 120 - E
1/4" = 1'-0"



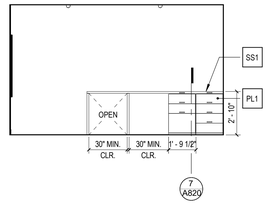

15 LOWER LEVEL - MEETING ROOM 120 - S
1/4" = 1'-0"



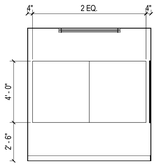

16 LOWER LEVEL - MEETING ROOM 120 - W
1/4" = 1'-0"



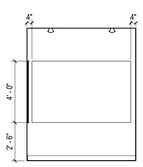

8 LOWER LEVEL - PASS. OFFICE 107 - E
1/4" = 1'-0"



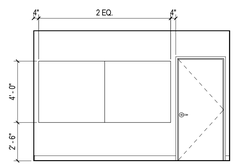

9 LOWER LEVEL - PASS. OFFICE 107 - S
1/4" = 1'-0"



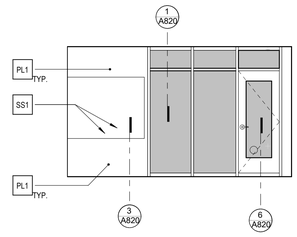

17 LOWER LEVEL - CALL ROOM 119 - N
1/4" = 1'-0"



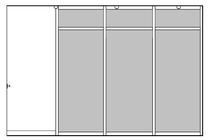

18 LOWER LEVEL - CALL ROOM 119 - E
1/4" = 1'-0"



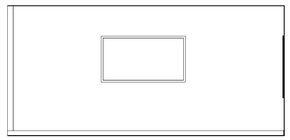

10 LOWER LEVEL - CONFERENCE 111 - N
1/4" = 1'-0"




11 LOWER LEVEL - CONEFRENCE 111 - E
1/4" = 1'-0"



13 LOWER LEVEL - CONFERENCE 111 - S
1/4" = 1'-0"



12 LOWER LEVEL - CONFERENCE 111 - W
1/4" = 1'-0"

## SHEET NOTES

A. SEE SHEET A240 FOR FINISH LEGEND
B. SEE FINISH PLANS FOR FLOOR AND WALL FINISHES
C. SEE SHEET A000 FOR TYPICAL SYMBOLS AND ABBREVIATIONS.
D. FOR INTERIOR DOOR FRONT TYPE SEE A600
E. FOR WINDOW INDENTIFICATION TAG SEE FLOOR PLANS. FOR WINDOW DIMENSIONS AND DETAILS REFER TO WINDOW SCHEDULE SHEETS
F. SEE DETAILS IN G130 SHEETS A10.90 FOR TYPICAL MOUNTING HEIGHTS, LOCATIONS, GRAB BAR SIZE AND OTHER ACCESSIBILITY DETAIL
G. ALL ELECTRICAL OUTLETS ABOVE CASEWORK TO BE ORIENTED HORIZONTALLY
H. ELECTRICAL OUTLETS SHOWN FOR REFERENCE. SED FOR LOCATIONS
I. ALL CASEWORK TO BE LOCKABLE U.N.O.
J. FURNTIURE SHOWN FOR REFERENCE ONLY
K. ALL WALL BASE IS RUBBER BASE, WB, AS NOTED IN FINISH LEGEND, UNO
L. FOR FINISH MATERIALS, SEE FINISH LEGEND & INTERIOR FINISH SCHEDULE SHEET A240.
M. ALL GLASS WALL SYSTEMS TO RECEIVE WINDOW FILM WITH CUSTOM FINISH
N. ALL WALLS TO BE PAINTED IN PT1 U.N.O.
O. ALL INTERIOR DOOR AND WINDOW TRIM TO BE PAINTED UNO. SEE DORR SCHEDULE.
P. FOR BACKING DETAILS, REFER TO BACKING PLATE SCHEDULE ____
Q. ALL DIMENSIONS ARE TO FACE OF FINISH UNO., FOR FRAMING DIMENSIONS SEE DIMENSION PLANS

## KEYNOTES

02.93 (E) BEAM
09.78 TACKABLE ACOUSTIC PANEL. 1" THICK. NRC .75 MIN UNO.

## LEGEND

GLAZING

EXTENT OF WALL FINISH
WALL FINISH CALL OUT
EXTENT OF WALL FINISH
WT# WALL FINISH CALLOUT

INDICATES TRANSITION OF MATERIAL

ANDERSON BRULÉ ARCHITECTS
325 South First Street, 4th Floor
San Jose, California 95113
408.298.1885 | www.aba-arch.com

409 Harvard Avenue, Suite 201
Claremont, CA 91711

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|---|---|---|

PROJECT TITLE:

# ALTADENA MAIN LIBRARY

600 E MARIPOSA STREET
ALTADENA, CA 91001

| | |
|---|---|
| PROJECT NO. | 2111010 |
| DATE: | 01-08-2024 |

SHEET TITLE:

**INTERIOR ELEVATIONS**

SCALE: As indicated

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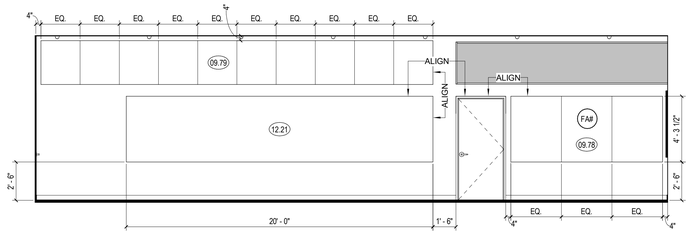
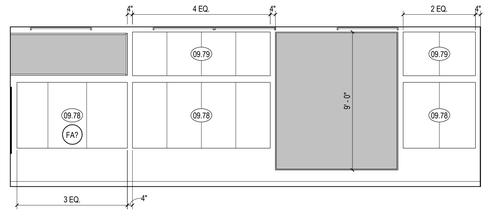
A501

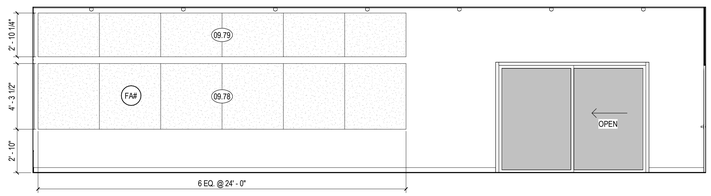
1/8/2024 5:53:18 PM



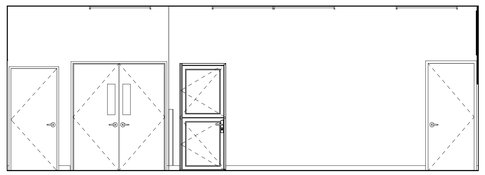

1 MID LEVEL - COMMUNITY ROOM 201 - N
1/4" = 1'-0"




2 MID LEVEL - COMMUNITY ROOM 201 - E
1/4" = 1'-0"



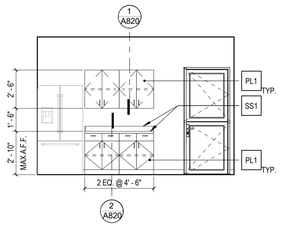

3 MID LEVEL - COMMUNITY ROOM 201 - S
1/4" = 1'-0"



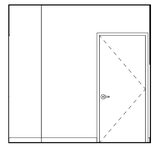
4 MID LEVEL - COMMUNITY ROOM 201 - W
1/4" = 1'-0"



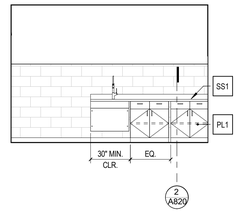
5 MID LEVEL - KITCHEN 202 - N
1/4" = 1'-0"



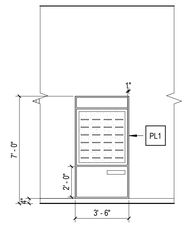

6 MID LEVEL - KITCHEN 202 - E
1/4" = 1'-0"



7 MID LEVEL - KITCHEN 202 - S
1/4" = 1'-0"




8 MID LEVEL - KITCHEN 202 - W
1/4" = 1'-0"




9 MAIN LEVEL - ELEVATOR INFILL SHELF
1/4" = 1'-0"

## SHEET NOTES

A. SEE SHEET A240 FOR FINISH LEGEND
B. SEE FINISH PLANS FOR FLOOR AND WALL FINISHES
C. SEE SHEET A000 FOR TYPICAL SYMBOLS AND ABBREVIATIONS.
D. FOR INTERIOR DOOR FRONT TYPE SEE A600
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Q. ALL DIMENSIONS ARE TO FACE OF FINISH UNO., FOR FRAMING DIMENSIONS SEE DIMENSION PLANS

## KEYNOTES

09.78 TACKABLE ACOUSTIC PANEL. 1" THICK. NRC .75 MIN UNO.
09.79 ACOUSTIC PANEL. 1" THICK. NRC .75 MIN UNO.
12.21 GLASS MARKERBOARD

## LEGEND

GLAZING

EXTENT OF WALL FINISH
WALL FINISH CALL OUT
EXTENT OF WALL FINISH
WT#
WALL FINISH CALLOUT

INDICATES TRANSITION OF MATERIAL

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San Jose, California 95113
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Claremont, CA 91711

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PROJECT TITLE:

# ALTADENA MAIN LIBRARY

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| PROJECT NO. | 2111010 |
| DATE: | 01-08-2024 |

SHEET TITLE:

**INTERIOR ELEVATIONS**

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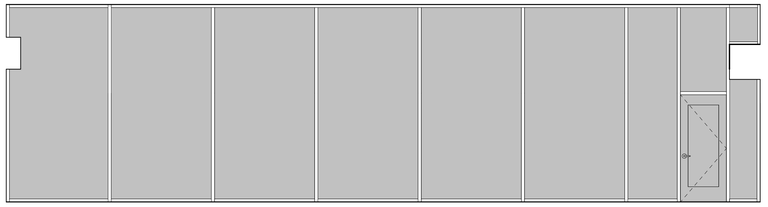
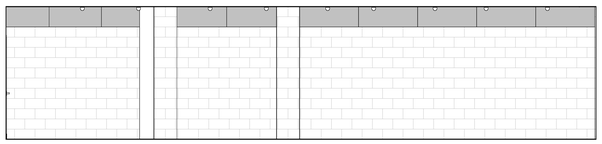


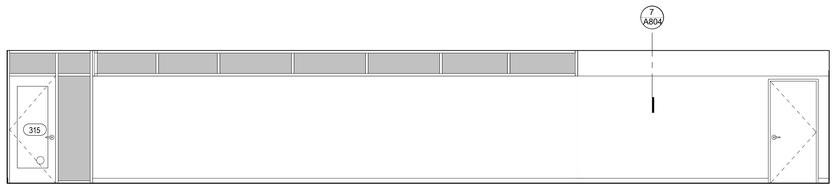
1 MAIN LEVEL - TWEENS 302 - N
1/4" = 1'-0"



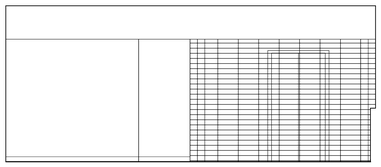
2 MAIN LEVEL - TWEENS 302 - E
1/4" = 1'-0"



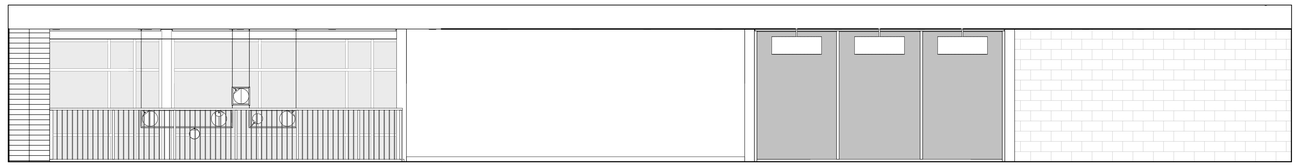
3 MAIN LEVEL - CHILDREN'S 303 - N
1/4" = 1'-0"



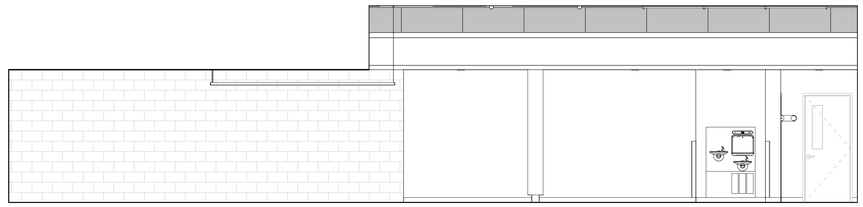

4 MAIN LEVEL - CHILDREN'S 303 - W
1/4" = 1'-0"



5 MAIN LEVEL - ADULT'S 304 - E
1/4" = 1'-0"



6 MAIN LEVEL - ADULT'S 304 - S
1/4" = 1'-0"



7 MAIN LEVEL - ADULT'S 304 - W
1/4" = 1'-0"

## SHEET NOTES

A. SEE SHEET A240 FOR FINISH LEGEND
B. SEE FINISH PLANS FOR FLOOR AND WALL FINISHES
C. SEE SHEET A000 FOR TYPICAL SYMBOLS AND ABBREVIATIONS.
D. FOR INTERIOR DOOR FRONT TYPE SEE A600
E. FOR WINDOW INDENTIFICATION TAG SEE FLOOR PLANS. FOR WINDOW DIMENSIONS AND DETAILS REFER TO WINDOW SCHEDULE SHEETS
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O. ALL INTERIOR DOOR AND WINDOW TRIM TO BE PAINTED UNO. SEE DORR SCHEDULE.
P. FOR BACKING DETAILS, REFER TO BACKING PLATE SCHEDULE ____
Q. ALL DIMENSIONS ARE TO FACE OF FINISH UNO., FOR FRAMING DIMENSIONS SEE DIMENSION PLANS

## KEYNOTES

## LEGEND

GLAZING

EXTENT OF WALL FINISH
WALL FINISH CALL OUT
EXTENT OF WALL FINISH
WT#
WALL FINISH CALLOUT

INDICATES TRANSITION OF MATERIAL

ANDERSON BRULÉ ARCHITECTS
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PROJECT TITLE:

# ALTADENA MAIN LIBRARY

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ALTADENA, CA 91001

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| PROJECT NO. | 2111010 |
| DATE: | 01-08-2024 |

SHEET TITLE:

**INTERIOR ELEVATIONS**

SCALE: As indicated

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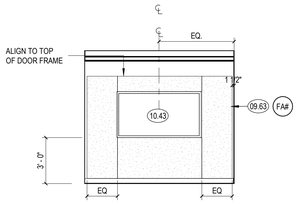
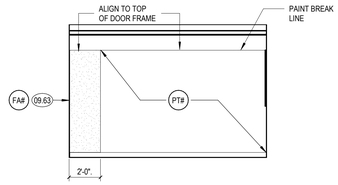
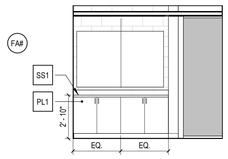



1 MAIN LEVEL - MEETING ROOM 305 - N
1/4" = 1'-0"



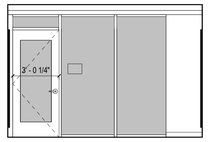

2 MAIN LEVEL - MEETING ROOM 305 - E
1/4" = 1'-0"



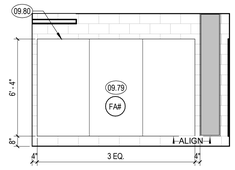

3 MAIN LEVEL - MEETING ROOM 305 - S
1/4" = 1'-0"



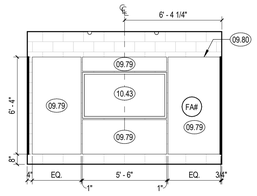
4 MAIN LEVEL - MEETING ROOM 305 - W
1/4" = 1'-0"



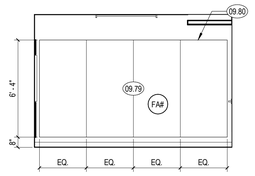

5 MAIN LEVEL - GAMING ROOM 306 - N
1/4" = 1'-0"



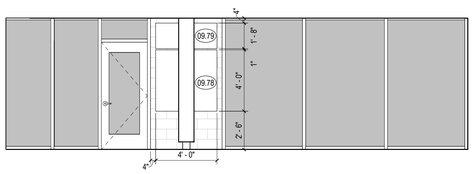

6 MAIN LEVEL - GAMING ROOM 306 - E
1/4" = 1'-0"



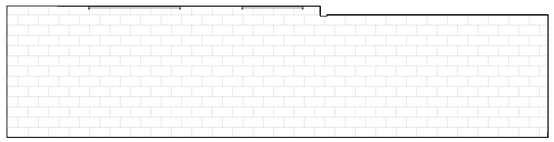

7 MAIN LEVEL - GAMING ROOM 306 - S
1/4" = 1'-0"



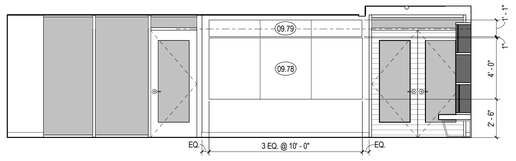

8 MAIN LEVEL - GAMING ROOM 306 - W
1/4" = 1'-0"



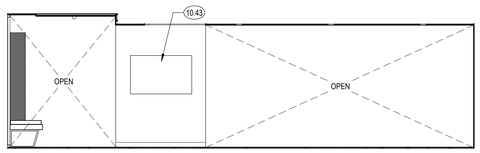

9 MAIN LEVEL - YOUNG ADULTS 307 - N
1/4" = 1'-0"



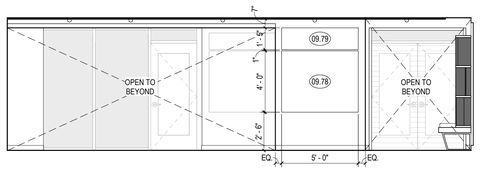
10 MAIN LEVEL - YOUNG ADULTS 307 - E
1/4" = 1'-0"




11 MAIN LEVEL - YOUNG ADULTS 307 - S
1/4" = 1'-0"




12 MAIN LEVEL - YOUNG ADULTS 307 TV WALL - N
1/4" = 1'-0"




13 MAIN LEVEL - YOUNG ADULTS 307 TV WALL - S
1/4" = 1'-0"

## SHEET NOTES

A. SEE SHEET A240 FOR FINISH LEGEND
B. SEE FINISH PLANS FOR FLOOR AND WALL FINISHES
C. SEE SHEET A000 FOR TYPICAL SYMBOLS AND ABBREVIATIONS.
D. FOR INTERIOR DOOR FRONT TYPE SEE A600
E. FOR WINDOW INDENTIFICATION TAG SEE FLOOR PLANS. FOR WINDOW DIMENSIONS AND DETAILS REFER TO WINDOW SCHEDULE SHEETS
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## KEYNOTES

09.63
09.78 TACKABLE ACOUSTIC PANEL 1" THICK. NRC .75 MIN UNO.
09.79 ACOUSTIC PANEL 1" THICK. NRC .75 MIN UNO.
09.80 ALIGN PANEL TO TOP OF DOOR FRAME
10.43 WALL MOUNTED TV

## LEGEND

GLAZING

EXTENT OF WALL FINISH
WALL FINISH CALL OUT
EXTENT OF WALL FINISH
WT# WALL FINISH CALLOUT

INDICATES TRANSITION OF MATERIAL

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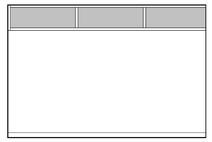
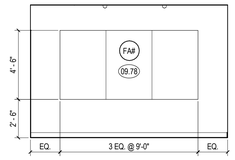
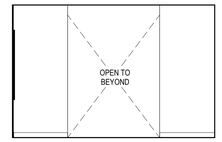
1 MAIN LEVEL - IT/TECH SERVICES 310 - N
1/4" = 1'-0"



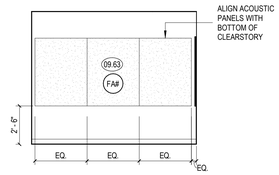
2 MAIN LEVEL - IT/TECH SERVICES 310 - E
1/4" = 1'-0"



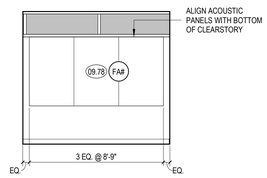

3 MAIN LEVEL - IT/TECH SERVICES 310 - S
1/4" = 1'-0"




4 MAIN LEVEL - IT/TECH SERVICES 310 - W
1/4" = 1'-0"



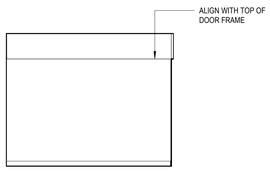

5 MAIN LEVEL - FINANCE OFFICE 311 - N
1/4" = 1'-0"



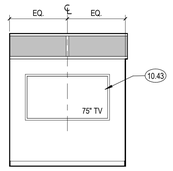

6 MAIN LEVEL - FINANCE OFFICE 311 - E
1/4" = 1'-0"



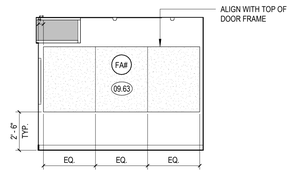
7 MAIN LEVEL - FINANCE OFFICE 311 - S
1/4" = 1'-0"




8 MAIN LEVEL - MEETING ROOM 312 - N
1/4" = 1'-0"



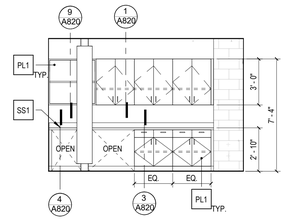

9 MAIN LEVEL - MEETING ROOM 312 - E
1/4" = 1'-0"



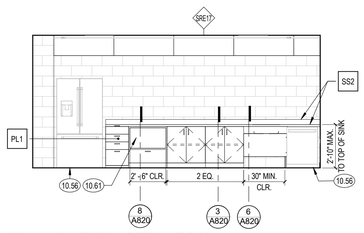

10 MAIN LEVEL - MEETING ROOM 312 - S
1/4" = 1'-0"



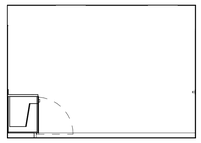

11 MAIN LEVEL - RECEIVING 313 - N
1/4" = 1'-0"



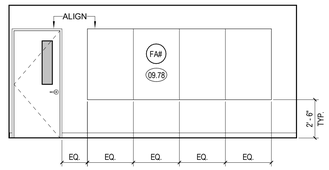

12 MAIN LEVEL - RECEIVING 313 - W
1/4" = 1'-0"



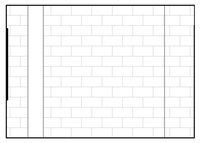

13 MAIN LEVEL - BREAK ROOM 314 - N
1/4" = 1'-0"



14 MAIN LEVEL - BREAK ROOM 314 - E
1/4" = 1'-0"




15 MAIN LEVEL - BREAK ROOM 314 - S
1/4" = 1'-0"



16 MAIN LEVEL - BREAK ROOM 314 - W
1/4" = 1'-0"

## SHEET NOTES

A. SEE SHEET A240 FOR FINISH LEGEND
B. SEE FINISH PLANS FOR FLOOR AND WALL FINISHES
C. SEE SHEET A000 FOR TYPICAL SYMBOLS AND ABBREVIATIONS.
D. FOR INTERIOR DOOR FRONT TYPE SEE A600
E. FOR WINDOW INDENTIFICATION TAG SEE FLOOR PLANS. FOR WINDOW DIMENSIONS AND DETAILS REFER TO WINDOW SCHEDULE SHEETS
F. SEE DETAILS IN G130 SHEETS A10.90 FOR TYPICAL MOUNTING HEIGHTS, LOCATIONS, GRAB BAR SIZE AND OTHER ACCESSIBILITY DETAIL
G. ALL ELECTRICAL OUTLETS ABOVE CASEWORK TO BE ORIENTED HORIZONTALLY
H. ELECTRICAL OUTLETS SHOWN FOR REFERENCE. SED FOR LOCATIONS
I. ALL CASEWORK TO BE LOCKABLE U.N.O.
J. FURNTIURE SHOWN FOR REFERENCE ONLY.
K. ALL WALL BASE IS RUBBER BASE, WB, AS NOTED IN FINISH LEGEND, UNO
L. FOR FINISH MATERIALS, SEE FINISH LEGEND & INTERIOR FINISH SCHEDULE SHEET A240.
M. ALL GLASS WALL SYSTEMS TO RECEIVE WINDOW FILM WITH CUSTOM FINISH
N. ALL WALLS TO BE PAINTED IN PT1 U.N.O.
O. ALL INTERIOR DOOR AND WINDOW TRIM TO BE PAINTED UNO. SEE DORR SCHEDULE.
P. FOR BACKING DETAILS, REFER TO BACKING PLATE SCHEDULE ____
Q. ALL DIMENSIONS ARE TO FACE OF FINISH UNO., FOR FRAMING DIMENSIONS SEE DIMENSION PLANS

## KEYNOTES

09.63
09.78 TACKABLE ACOUSTIC PANEL. 1" THICK. NRC .75 MIN UNO.
10.43 WALL MOUNTED TV
10.56 DISHWASHER. OFCI
10.61 MICROWAVE CABINET

## LEGEND

GLAZING

EXTENT OF WALL FINISH
WALL FINISH CALL OUT
EXTENT OF WALL FINISH
WT#
WALL FINISH CALLOUT

INDICATES TRANSITION OF MATERIAL


ANDERSON BRULÉ ARCHITECTS
325 South First Street, 4th Floor
San Jose, California 95113
408.298.1885 | www.aba-arch.com
409 Harvard Avenue, Suite 201
Claremont, CA 91711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PROJECT TITLE:

# ALTADENA MAIN LIBRARY

600 E MARIPOSA STREET
ALTADENA, CA 91001

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|---|---|
| PROJECT NO. | 2111010 |
| DATE: | 01-08-2024 |

SHEET TITLE:

**INTERIOR ELEVATIONS**

SCALE: As indicated


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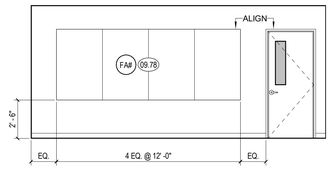
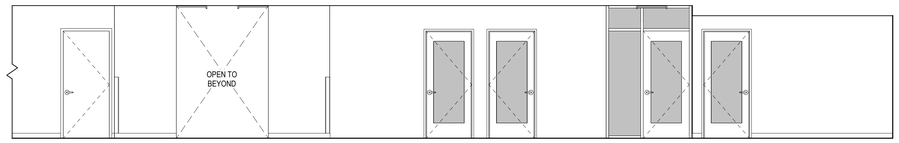
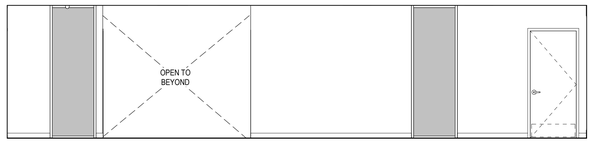


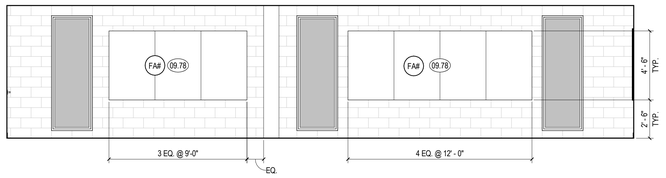

1 MAIN LEVEL - OPEN WORK AREA 315 - N
1/4" = 1'-0"




2 MAIN LEVEL - OPEN WORK AREA 315 - E
1/4" = 1'-0"



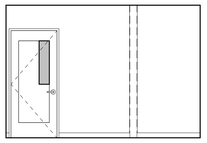

3 MAIN LEVEL - OPEN WORK AREA 315 - S
1/4" = 1'-0"



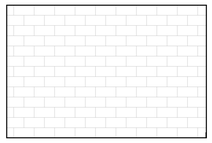

4 MAIN LEVEL - OPEN WORK AREA 315 - W
1/4" = 1'-0"



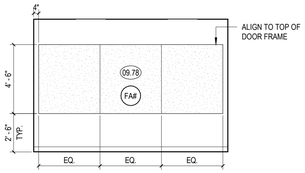
5 MAIN LEVEL - DIR. OFFICE 317 - N
1/4" = 1'-0"



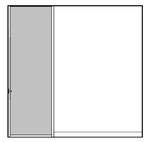
6 MAIN LEVEL - DIR. OFFICE 317 - E
1/4" = 1'-0"



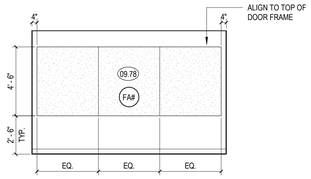
7 MAIN LEVEL - DIR. OFFICE 317 - S
1/4" = 1'-0"



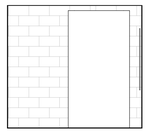

8 MAIN LEVEL - DIR. OFFICE 317 - W
1/4" = 1'-0"



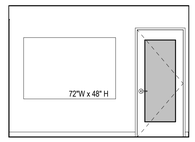
9 MAIN LEVEL - ASST. DIR. OFF. 318 - N
1/4" = 1'-0"



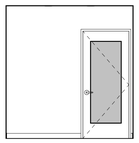

10 MAIN LEVEL - ASST. DIR. OFF. 318 - E
1/4" = 1'-0"



11 MAIN LEVEL - ASST. DIR. OFF. 318 - S
1/4" = 1'-0"



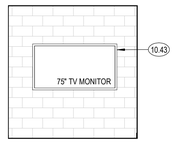

12 MAIN LEVEL - ASST. DIR. OFF. 318 - W
1/4" = 1'-0"



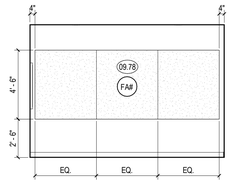
13 MAIN LEVEL - MEETING ROOM 319 - N
1/4" = 1'-0"



14 MAIN LEVEL - MEETING ROOM 319 - E
1/4" = 1'-0"




15 MAIN LEVEL - MEETING ROOM 319 - S
1/4" = 1'-0"




16 MAIN LEVEL - MEETING ROOM 319 - W
1/4" = 1'-0"

## SHEET NOTES

A. SEE SHEET A240 FOR FINISH LEGEND
B. SEE FINISH PLANS FOR FLOOR AND WALL FINISHES
C. SEE SHEET A000 FOR TYPICAL SYMBOLS AND ABBREVIATIONS.
D. FOR INTERIOR DOOR FRONT TYPE SEE A600
E. FOR WINDOW INDENTIFICATION TAG SEE FLOOR PLANS. FOR WINDOW DIMENSIONS AND DETAILS REFER TO WINDOW SCHEDULE SHEETS
F. SEE DETAILS IN G130 SHEETS A10.90 FOR TYPICAL MOUNTING HEIGHTS, LOCATIONS, GRAB BAR SIZE AND OTHER ACCESSIBILITY DETAIL
G. ALL ELECTRICAL OUTLETS ABOVE CASEWORK TO BE ORIENTED HORIZONTALLY
H. ELECTRICAL OUTLETS SHOWN FOR REFERENCE. SED FOR LOCATIONS
I. ALL CASEWORK TO BE LOCKABLE U.N.O.
J. FURNTIURE SHOWN FOR REFERENCE ONLY.
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N. ALL WALLS TO BE PAINTED IN PT1 U.N.O.
O. ALL INTERIOR DOOR AND WINDOW TRIM TO BE PAINTED UNO. SEE DORR SCHEDULE.
P. FOR BACKING DETAILS, REFER TO BACKING PLATE SCHEDULE ____
Q. ALL DIMENSIONS ARE TO FACE OF FINISH UNO., FOR FRAMING DIMENSIONS SEE DIMENSION PLANS

## KEYNOTES

09.78 TACKABLE ACOUSTIC PANEL. 1" THICK. NRC .75 MIN UNO.
10.43 WALL MOUNTED TV

## LEGEND

GLAZING

EXTENT OF WALL FINISH
WALL FINISH CALL OUT
EXTENT OF WALL FINISH
WT#
WALL FINISH CALLOUT

INDICATES TRANSITION OF MATERIAL

ANDERSON BRULÉ ARCHITECTS
325 South First Street, 4th Floor
San Jose, California 95113
408.298.1885 | www.aba-arch.com
409 Harvard Avenue, Suite 201
Claremont, CA 91711

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PROJECT TITLE:

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| PROJECT NO. | 2111010 |
| DATE: | 01-08-2024 |

SHEET TITLE:

**INTERIOR ELEVATIONS**

SCALE: As indicated

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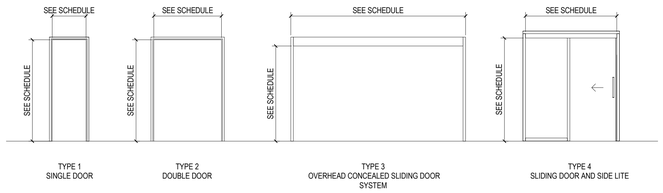


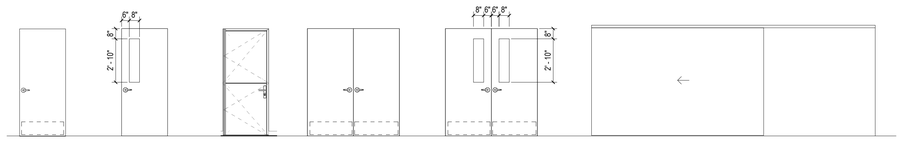

TYPE 1
SINGLE DOOR

TYPE 2
DOUBLE DOOR

TYPE 3
OVERHEAD CONCEALED SLIDING DOOR SYSTEM

TYPE 4
SLIDING DOOR AND SIDE LITE

## DOOR FRAME TYPES




A1
SINGLE FLUSH

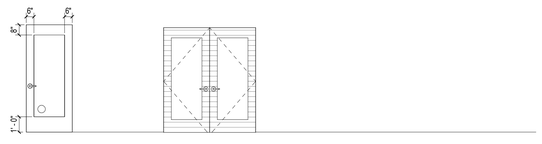
A2
SINGLE FLUSH
NARROW VISION LITE

A3
DUTCH DOOR

A4
DOUBLE FLUSH

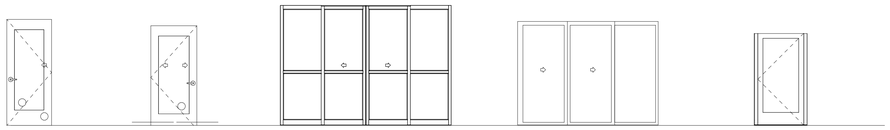
A6
DOUBLE FLUSH
WITH NARROW VISION LITE

A7
BARN DOOR




CT1
SINGLE FLUSH
FULL LITE

CT2
DOUBLE FLUSH
FULL LITE



S1
SINGLE SLIDING DOOR
CLEAR TEMPRED GLAZING

S2
PAIR SLIDING DOORS
CLEAR TEMPRED GLAZING

S3
SLIDING AUTOMATIC ENTRANCE
DOORS WITH TEMPERED GLAZING

S4
3 TRACK SLIDING DOOR
CLEAR TEMPERED GLAZING

G1
MTL GATE

## DOOR PANEL TYPES

## HARDWARE GROUPS

# EXISTING (E) TO REMAIN DOOR SCHEDULE

| NUMBER | DOOR TYPE | DOOR WIDTH | DOOR HEIGHT | DOOR MATERIAL | DOOR FINISH | FRAME TYPE | FRAME MATERIAL | FRAME FINISH | FIRE RATING | HARDWARE GROUP | PANIC HARDWARE | CLOSER | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LOWER LEVEL | | | | | | | | | | | | | |
| E100 | A1 | VIF | VIF | | | VIF | | | | | | | |
| MID-LEVEL | | | | | | | | | | | | | |
| E201A | (E) | VIF | VIF | | | VIF | | | | | Yes | | |
| MAIN LEVEL | | | | | | | | | | | | | |
| E300 | | | | | | | | | | | | | |
| E301 | S3 | | | | | | ALM | | | | | | |

# BASE BID DOOR SCHEDULE

| NUMBER | DOOR TYPE | DOOR WIDTH | DOOR HEIGHT | DOOR MATERIAL | DOOR FINISH | FRAME TYPE | FRAME MATERIAL | FRAME FINISH | FIRE RATING | HARDWARE GROUP | PANIC HARDWARE | CLOSER | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LOWER LEVEL | | | | | | | | | | | | | |
| 100A | S3 | 11' - 5 1/2" | 8' - 5 3/4" | ALM/CT | | 3 | ALM | | | | | | |
| 100B | CT1 | 3' - 0" | 7' - 0" | ALM | | 1 | HM | | | | Yes | Yes | |
| 101 | CT2 | 6' - 0" | 7' - 0" | WD | | 2 | ALM | | | | | | |
| 102 | A1 | 3' - 0" | 7' - 0" | WD | | 1 | ALM | | | | | | PROVIDE ADDITIONAL SOUND CONTROL - STC 45 |
| 103 | A1 | 3' - 0" | 7' - 0" | WD | | 1 | ALM | | | | | | |
| 104 | A1 | 3' - 0" | 7' - 0" | WD | | 1 | ALM | | | | | | |
| 105 | A4 | 6' - 0" | 7' - 0" | WD | | 2 | HM | | | | | | |
| 106 | CT1 | 3' - 0" | 7' - 0" | ALM | | 1 | | | | | | | |
| 107 | CT1 | 2' - 11" | 7' - 0" | ALM | | 1 | ALM | | | | | | |
| 108 | CT1 | 3' - 0" | 7' - 0" | | | 1 | | | | | | | |
| 109 | CT1 | 3' - 0" | 7' - 0" | | | 1 | | | | | | | |
| 110 | CT1 | 3' - 0" | 7' - 0" | | | 1 | | | | | | | |
| 111 | CT1 | 2' - 8" | 6' - 8" | ALM | | 1 | | | | | | | |
| 112 | A1 | 3' - 0" | 6' - 8" | WD | | 1 | | | | | | | |
| 112B | CT1 | 3' - 0" | 7' - 0" | ALM | | 1 | HM | | | | Yes | Yes | |
| 113A | A1 | 2' - 4" | 7' - 0" | WD | | 2 | ALM | | | | | | |
| 113B | A1 | 2' - 4" | 7' - 0" | WD | | 2 | ALM | | | | | | |
| 113C | A1 | 2' - 4" | 7' - 0" | WD | | 2 | ALM | | | | | | |
| 113D | A1 | 3' - 0" | 7' - 0" | WD | | 1 | ALM | | | | | | |
| 114 | A1 | 3' - 0" | 7' - 0" | HM | | 1 | HM | | | | | | |
| MID-LEVEL | | | | | | | | | | | | | |
| 200 | CT1 | 3' - 0" | 6' - 6" | ALM/CT | | 1 | ALM | | | | | | |
| 201B | A6 | 6' - 0" | 7' - 0" | WD | | 2 | ALM | | | | Yes | | |
| 201C | S2 | 9' - 7" | 7' - 0" | ALM/CT | | 2 | ALM | | | | | | |
| 202 | A1 | 3' - 0" | 6' - 8" | WD | | 1 | ALM | | | | | | |
| 202A | A1 | 3' - 0" | 7' - 0" | WD | | 1 | ALM | | | | | | |
| 202B | A3 | 3' - 0" | 7' - 0" | WD | | 1 | ALM | | | | | | |
| 203 | A1 | 3' - 0" | 7' - 0" | WD | | 1 | ALM | | | | | | |
| 204 | G1 | 3' - 0" | 6' - 0" | | | | | | | | | | |
| MAIN LEVEL | | | | | | | | | | | | | |
| 302 | CT1 | 3' - 0" | 7' - 0" | ALM | | 1 | ALM | | | | | | |
| 303 | A2 | 3' - 0" | 7' - 0" | HM | | 1 | ALM | | | | Yes | Yes | |
| 305 | CT1 | 3' - 0" | 7' - 0" | WD | | 1 | ALM | | | | | | |
| 306 | CT1 | 3' - 0" | 7' - 0" | ALM | | 1 | ALM | | | | | | |
| 307A | CT2 | 6' - 0" | 7' - 0" | WD | | 2 | ALM | | | | | | |
| 307B | CT1 | 3' - 0" | 7' - 0" | ALM | | 1 | ALM | | | | | | |
| 308 | A1 | 3' - 0" | 6' - 8" | WD | | 1 | ALM | | | | | Yes | |
| 309 | A1 | 3' - 0" | 7' - 0" | WD | | 1 | ALM | | | | | Yes | |
| 311 | CT1 | 3' - 0" | 7' - 0" | WD | | 1 | ALM | | | | | | |
| 312 | CT1 | 3' - 0" | 7' - 0" | WD | | 1 | ALM | | | | | | |
| 313 | A1 | 3' - 6" | 7' - 0" | HM | | 1 | ALM | | | | | | |
| 314A | A2 | 3' - 0" | 7' - 0" | WD | | 1 | ALM | | | | | Yes | |
| 315 | CT1 | 3' - 0" | 7' - 0" | WD | | 1 | ALM | | | | | | |
| 316A | A1 | 3' - 0" | 7' - 0" | WD | | 1 | ALM | | | | | Yes | |
| 317 | CT1 | 3' - 0" | 7' - 0" | WD | | 1 | ALM | | | | | | |
| 318 | CT1 | 3' - 0" | 7' - 0" | WD | | 1 | ALM | | | | | | |
| 319 | CT1 | 3' - 0" | 7' - 0" | WD | | 1 | ALM | | | | | | |
| 320 | A1 | 3' - 0" | 6' - 8" | WD | | 1 | ALM | | | | | | |
| 320A | A1 | 2' - 4" | 7' - 0" | WD | | 2 | ALM | | | | | | |
| 320B | A1 | 2' - 4" | 7' - 0" | WD | | 2 | ALM | | | | | | |
| 320C | A1 | 2' - 4" | 7' - 0" | WD | | 2 | ALM | | | | | | |
| 320D | A1 | 3' - 0" | 7' - 0" | WD | | 1 | ALM | | | | | | |
| 321 | A1 | 3' - 0" | 7' - 0" | WD | | 1 | ALM | | | | | | |

# ADD ALTERNATE DOOR SCHEDULE

| PHASING | DOOR | | | | | | FRAME | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Phase Created | NUMBER | TYPE | WIDTH | HEIGHT | MATERIAL | FINISH | TYPE | MATERIAL | FINISH | FIRE RATING | HARDWARE GROUP | PANIC HARDWARE | CLOSER | REMARKS |
| Add Alternate #1 | | | | | | | | | | | | | | |
| Add Alternate #1 | 101A | A2 | 3' - 0" | 7' - 0" | WD | | 1 | ALM | | | | | | |
| Add Alternate #1 | 101B | A2 | 3' - 0" | 7' - 0" | WD | | 1 | ALM | | | | | | |
| Add Alternate #1 | 113 | S1 | 3' - 0" | 7' - 0" | ALM | | 1 | ALM | | | | | | |
| Add Alternate #1 | 114 | A4 | 6' - 0" | 7' - 0" | WD | | 2 | ALM | | | | | | |
| Add Alternate #1 | 114A | CT1 | 3' - 0" | 7' - 0" | HM | | 1 | HM | | | | Yes | Yes | |
| Add Alternate #1 | 114B | S4 | 14' - 0" | 8' - 5 1/2" | ALM | | 2 | ALM | | | | | | |
| Add Alternate #1 | 114C | S4 | 14' - 0" | 8' - 5 1/2" | ALM | | 2 | ALM | | | | | | |
| Add Alternate #1 | 114D | CT2 | 7' - 0 3/8" | 8' - 4" | HM | | 2 | HM | | | | Yes | Yes | |
| Add Alternate #1 | 115 | A4 | 6' - 0" | 7' - 0" | WD | | 2 | ALM | | | | | Yes | |
| Add Alternate #1 | 116A | A7 | 11' - 0" | 7' - 0" | WD | | | ALM | | | | | | |
| Add Alternate #1 | 116B | A2 | 3' - 0" | 7' - 0" | WD | | 1 | ALM | | | | | | |
| Add Alternate #1 | 117 | A1 | 3' - 0" | 7' - 0" | HM | | 1 | HM | | | | | Yes | |
| Add Alternate #1 | 180 | CT1 | 3' - 0" | 7' - 0" | HM | | | HM | | | | Yes | Yes | |
| Add Alternate #1 | 202A | A1 | 3' - 6" | 7' - 0" | WD | | 1 | ALM | | | | | | |
| Add Alternate #1 | 202B | A1 | 3' - 6" | 7' - 0" | WD | | 1 | ALM | | | | | | |
| Add Alternate #1 | 204 | | 9' - 7" | 7' - 0" | ALM | | 2 | ALM | | | | | | |
| Add Alternate #1 | 323 | A1 | 3' - 0" | 7' - 0" | WD | | 1 | ALM | | | | | Yes | |
| Add Alternate #1 | 324 | A1 | 3' - 0" | 7' - 0" | HM | | 1 | HM | | | | | Yes | |
| Add Alternate #1 | 325 | A1 | 3' - 0" | 7' - 0" | HM | | 1 | HM | | | | | Yes | |
| Add Alternate #2 | | | | | | | | | | | | | | |
| Add Alternate #2 | 112 | S3 | 11' - 5 1/2" | 8' - 5 3/4" | | | 3 | ALM | | | | | | |
| Add Alternate #2 | 120 | G1 | 5' - 0" | 3' - 6" | HM | | | HM | | | | | | |
| Add Alternate #4 | | | | | | | | | | | | | | |
| Add Alternate #4 | 302A | S4 | 15' - 5" | 12' - 10 3/4" | | | | ALM | | | | | | |
| Add Alternate #4 | 302B | S4 | 15' - 5" | 12' - 10 3/4" | | | | ALM | | | | | | |
| Add Alternate #4 | 302C | S4 | 15' - 5" | 12' - 10 3/4" | | | | ALM | | | | | | |
| Add Alternate #7 | | | | | | | | | | | | | | |
| Add Alternate #7 | 322 | S1 | 3' - 0" | 7' - 10 1/2" | | | 1 | ALM | | | | | | |

## SHEET NOTES

**GENERAL NOTES:**

1. CASING AROUND ALL NEW DOORS TO MATCH EXISTING DOORS. CONTRACTOR TO VERIFY IN FIELD.
2. S# DOOR TYPES ARE STOREFRONT ASSEMBLIES, SEE SHEET A610
3. CASING TO BE PAINT GRADE - PT1. SEE FINISH LEGEND A240
4. DOOR OPERATION AND HARDWARE : EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.
5. DOOR HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATIONS DEVICES TO BE ACCESSIBLE BY CHAPTER 11A OR 11B OF THE CALIFORNIA BUILDING CODE - SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST OT OPERATE.
6. ALL DOORS WITH LATCH TO BE EQUIPPED WITH SINGLE EFFORT NON-GRASP HARDWARE (I.E. LEVER) CENTERED BTWN. 30" AND 44" A.F.F.
7. ALL GLAZED DOORS TO HAVE A 10" KICK PLATE AT BOTTOM .
8. REFER TO SPECIFICATIONS FOR DOOR HARDWARE GROUP
9. DOOR HARDWARE ARE OPERABLE WITH ONE HAND AND DO NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE HAND. CBC 11B-404.2.7 AND 11B-309.4.
10. DOOR THRESHOLDS, IF PROVIDED AT DOORWAYS, TO BE ½ INCH HIGH MAXIMUM. RAISED THRESHOLDS AND CHANGES IN LEVEL AT DOORWAYS SHALL COMPLY WITH CBC SECTION 11B-302 AND 11B-303. CBC 11B-404.2.5.
11. DOOR OPENING FORCE TO NOT EXCEED 5-POUNDS FOR INTERIOR AND EXTERIOR DOORS PER CBC 11B-404.2.9.
12. DOOR OPENING HARDWARE TO BE MOUNTED AT 34" TO 44" ABOVE THE FINISH FLOOR PER CBC 11B-404.2.7.
13. LOWER 10 INCH OF THE DOOR SURFACE IS PROVIDED WITH A SMOOTH SURFACE FOR THE FULL WIDTH OF THE DOOR, AT THE PUSH SIDE OF THE DOOR PER CBC 11B-404.2.10.

**SPECIFIC NOTES:**

1. DOOR INSTALLED INTO (E) OPENING, VERIFY OPENING DIMENSIONS IN FIELD.
2. PROVIDE DOOR HOLD OPEN BRACKETS ON ADJ. WALL.

ABBREVIATIONS
ALM: ALUMINUM
HM: HOLLOW METAL
CT: CLEAR TEMEPRED GLAZING

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PROJECT TITLE:

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ALTADENA, CA 91001

PROJECT NO. 2111010
DATE: 01-08-2024
SHEET TITLE:

**DOOR TYPES, FRAME TYPES, AND SCHEDULES**

SCALE: 1/4" = 1'-0"

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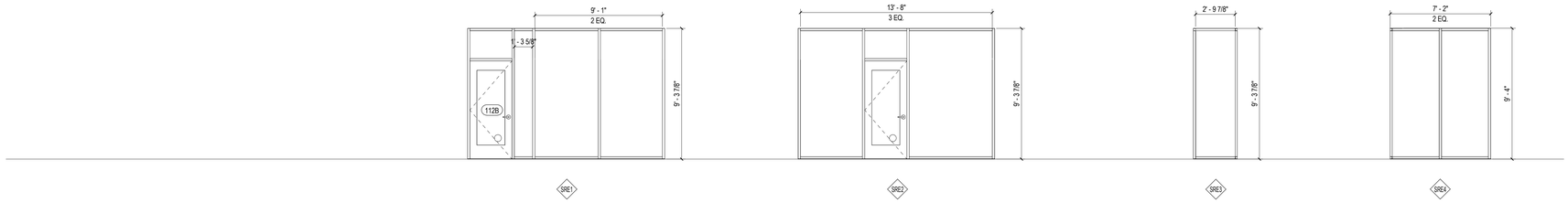
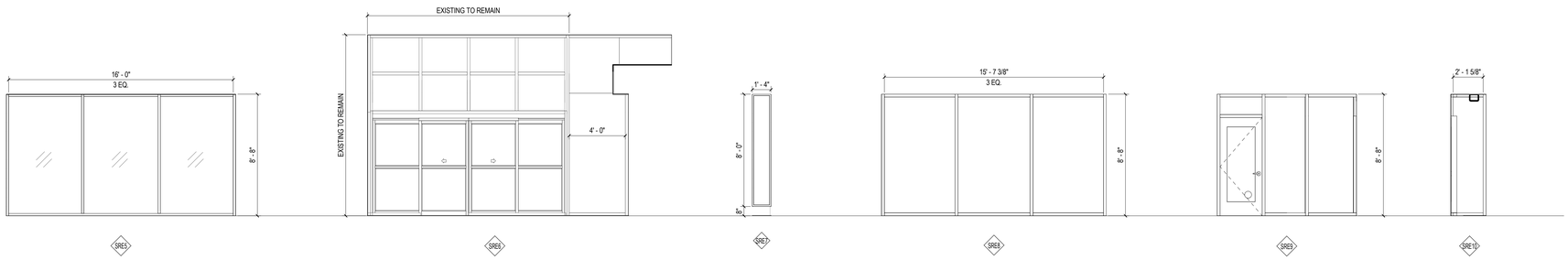
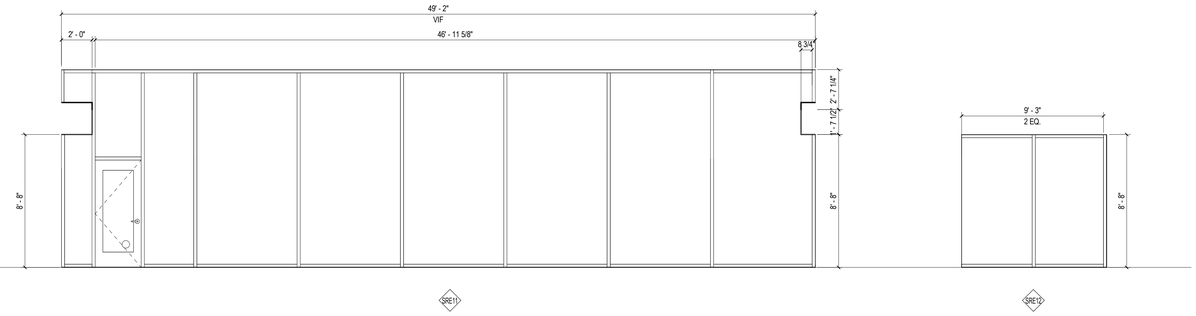
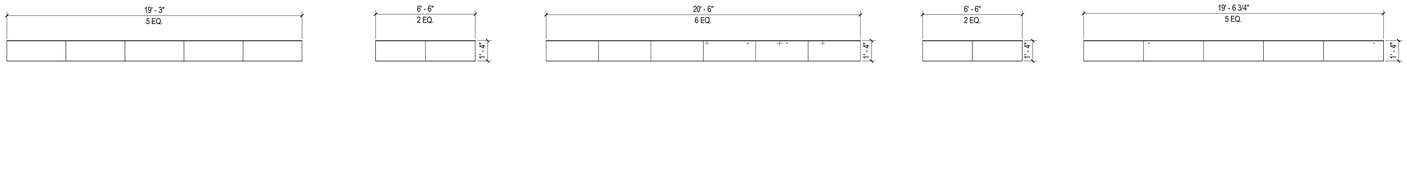
## SHEET NOTES

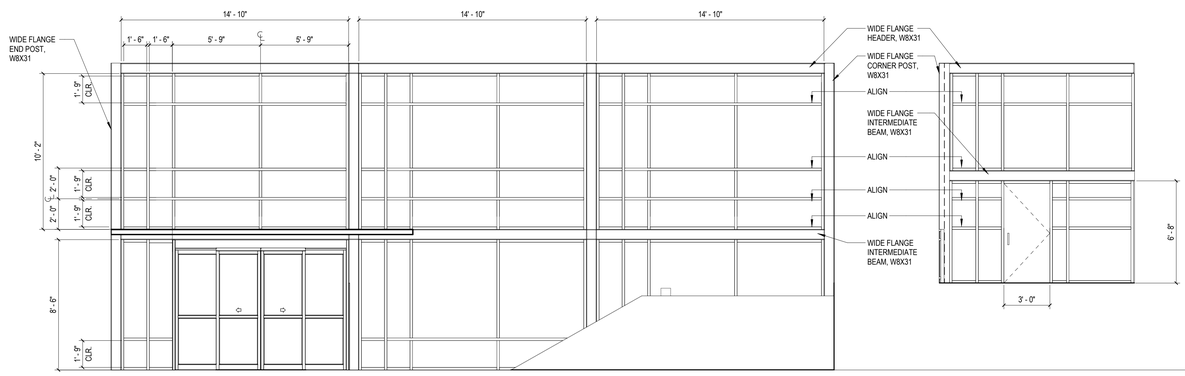
A. VERIFY IN FIELD ALL DIMENSIONS OF EXISTING CONDITIONS.





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## EXTERIOR WINDOW TYPES

SCALE: 1/4" = 1'-0"


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## SHEET NOTES

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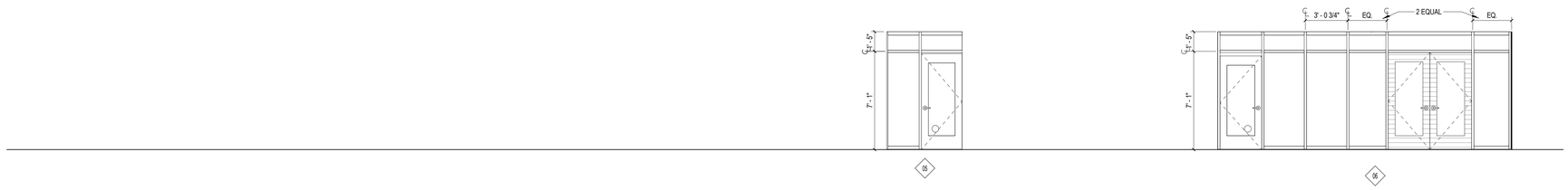


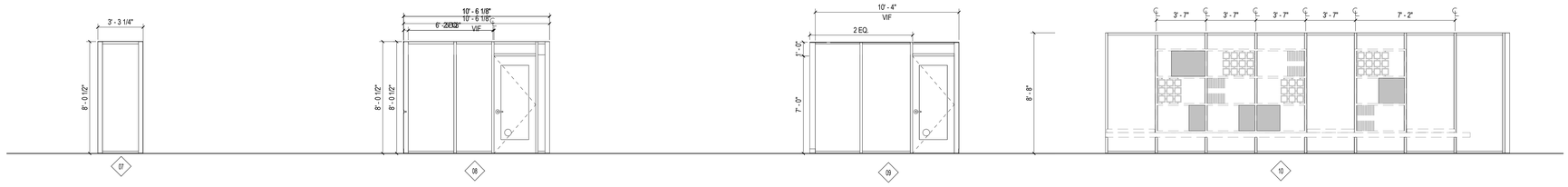


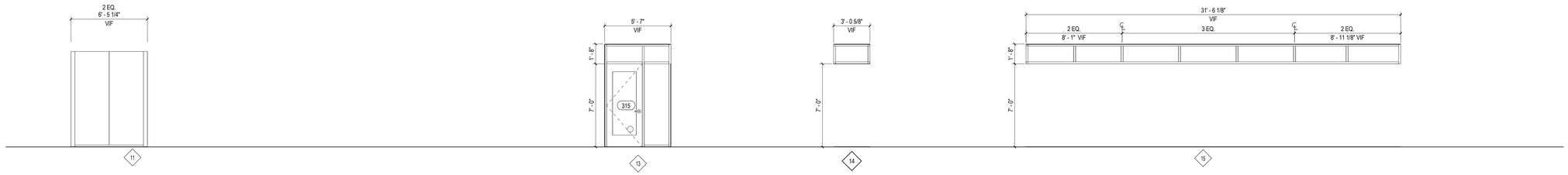


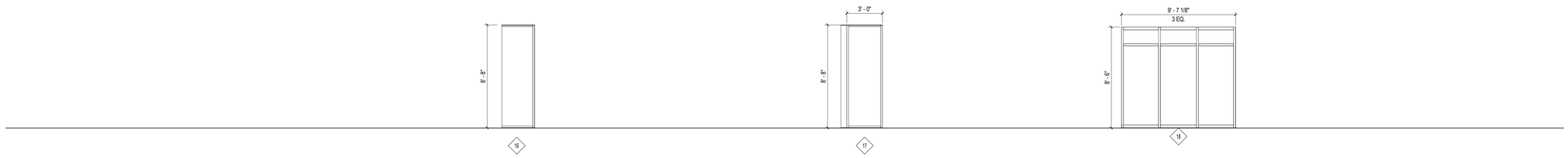



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## INTERIOR WINDOW TYPES

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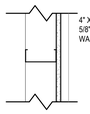
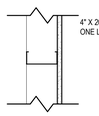
**TYPE K6.LP:** FURRING, 6" ABOVE CEILING



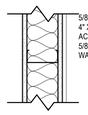
4" X 20 GA (0.0329") STL STUDS AT 24" OC
5/8" CEMENT BOARD
WALL TILE - REFER TO FINISH PLANS FOR ADDITIONAL INFORMATION

**TYPE K6:** FURRING, 6" ABOVE CEILING



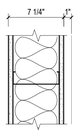
4" X 20 GA (0.0329") STL STUDS AT 24" OC
ONE LAYER OF 5/8" GYP BD, ONE SIDE

**TYPE F6.ALP** NON-RATED, FULL HEIGHT, ACOUSTICAL w/ WALL TILE



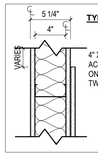
5/8" GYP BD
4" X 20 GA (0.0329") STL STUDS AT 24" OC
ACOUS BATT INSUL IN CAVITY
5/8" CEMENT BOARD
WALL TILE - REFER TO FINISH PLANS FOR ADDITIONAL INFORMATION

**TYPE F2.ALP:** NON-RATED, FULL HEIGHT, ACOUSTICAL w/ WALL TILE



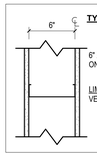

5/8" GYP BD
6" MTL STUDS AT 16" OC
ACOUS. BATT INSUL. IN CAVITY
5/8" CEMENT BOARD
WALL TILE - REFER TO FINISH PLANS FOR ADDITIONAL INFORMATION

**TYPE F6.AG:** NON-RATED SOUND WALL FROM TOP OF SLAB TO UNDERSIDE OF MTL DECK OR SLAB w/ OPNG PROTECTION




4" X 20 GA (0.0329") STL STUDS AT 24" OC
ACOUS BATT INSUL IN CAVITY
ONE LAYER OF 5/8" GYP BD, ONE SIDE
TWO LAYER OF 5/8" GYP BD, ONE SIDE

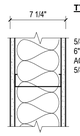
**TYPE F2:** NON-RATED PARTITION, ACOUSTICAL, FULL HEIGHT




6" X 20 GA (0.0329") STL STUDS AT 16" OC;
ONE LAYER OF 5/8" GYP BD EACH SIDE

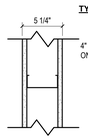
LIMITING HEIGHTS:
VERIFY HEIGHT WITH FRAMING MFR

**TYPE F2.A:** NON-RATED, FULL HEIGHT, ACOUSTICAL



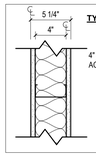

5/8" GYP BD
6" MTL STUDS AT 16" OC
ACOUS. BATT INSUL. IN CAVITY
5/8" GYP BD

**TYPE F6:** NON-RATED PARTITION FROM TOP OF SLAB TO UNDERSIDE OF MTL DECK OR SLAB w/ NO OPNG PROTECTION



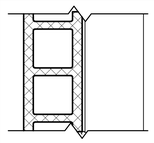

4" X 20 GA (0.0329") STL STUDS AT 24" OC
ONE LAYER OF 5/8" GYP BD EACH SIDE

**TYPE F6.A:** NON-RATED SOUND WALL FROM TOP OF SLAB TO UNDERSIDE OF MTL DECK OR SLAB w/ OPNG PROTECTION




4" X 20 GA (0.0329") STL STUDS AT 24" OC
ACOUS BATT INSUL IN CAVITY

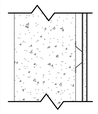
**TYPE F16:** NON-RATED PARTITION FROM TOP OF SLAB TO UNDERSIDE OF MTL DECK OR SLAB w/ NO OPNG PROTECTION



8x8x16" CMU
8x4x16 CMU

SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION

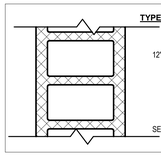
**TYPE F13.N:** NON-RATED PARTITION FROM TOP OF SLAB TO UNDERSIDE OF MTL DECK OR SLAB w/ NO OPNG PROTECTION



8" SHOTCRETE
7/8" MTL HAT CHANNEL
ONE LAYER OF 5/8" GYP BD, ONE SIDE

SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION

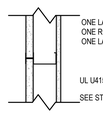
**TYPE 1.N12.N:** 1 HOUR RATED SHAFT WALL FROM TOP OF SLAB TO UNDERSIDE OF MTL DECK OR SLAB ABOVE w/ OPNG PROTECTION



12" CMU

SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION

**TYPE 1.N9:** 1 HOUR RATED STC 39 SHAFT WALL FROM TOP OF SLAB TO UNDERSIDE OF MTL DECK OR SLAB ABOVE w/ OPNG PROTECTION

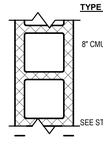


ONE LAYER OF 1" GYP LINER PANEL
ONE ROW OF 4" X 25 GA C-H MTL STUDS AT 24" OC
ONE LAYER OF 5/8" TYPE X GYP BD

UL U415 UL System A

SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION

**TYPE 11.N:** NON-RATED PARTITION FROM TOP OF SLAB TO UNDERSIDE OF MTL DECK OR SLAB w/ NO OPNG PROTECTION



8" CMU

SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION

## PARTITION NOTES

1. LIMITING HEIGHTS BY FRAMING MANUFACTURER
2. USE LONGER SCREWS OR NAILS TO MAINTAIN PENETRATION / ATTACHMENT REQUIREMENTS FOR NAILS AND SCREWS PER LISTED ASSEMBLY
3. ALIGN SURFACE OF FINISH BETWEEN PARTITIONS, WHERE TYPES ADJOIN TO FORM A CONTINUOUS PLANE
4. PROVIDE FIRE BLOCKING AS REQUIRED, BY CODE AND DESIGN LISTED
5. PROVIDED BLOCKING OR BACKING, SECURELY ATTACHED TO WALL / PARTITION FRAMING, AS NEEDED FOR SECURELY AND FIRMLY MOUNTING ALL WALL / PARTITION MOUNTED EQUIPTMENT, ACCESSORIES, LIGHTS, ETC. REVIEW ARCHITECTURAL AND ENGINEERING DRAWINGS TO IDENTIFY ITEMS THAT WILL REQUIRE BLOCKING OR BACKING. INSTALL BLOCKING OR BACKING, FOR THESE ITEMS AND MARK OR RECORD LOCATIONS, PRIOR TO APPLYING FACING MATERIALS.
6. ADD BASE PLATE AS REQUIRED FOR AREAS WITH GYPSUM UNDERLAYMENT OR MUD SET TILE.
7. SEE INTERIOR ELEVATIONS FOR ADDITIONAL WALL FINISHES NOT INDICATED ON PARTITION TYPES.
8. INSTALL W.R. GYP.BD. SHT'G BEHIND CERAMIC TILE APPLICATIONS & BEHIND WET WALLS.
9. INSTALL ACOUSTICAL PUTTY AT ALL UTILITY OPENINGS.
10. SEE PLAN, FOR LOCATIONS OF RATED WALLS

## PARTITION TYPE AND TAG STANDARDS

PARTITION TAG AND NAME STANDARD:
(ALL PARTITIONS TO INCLUDE ACOUSTICAL BATT INSULATION AND ACOUSTICAL PROTECTION OPENING U.N.O)



FIRST # INDICATES THE WALL RATING (NONE INDICATED IF NON-RATED):
- 1 = ONE-HOUR
- 2 = TWO-HOUR
- 3 = THREE-HOUR
- 4 = FOUR-HOUR

FIRST LETTER INDICATES PARTITION TYPE:
- A = FIRE PARTITION - FULL HEIGHT
- B = FIRE BARRIER - FULL HEIGHT
- C = FIRE WALL - FULL HEIGHT
- D = SMOKE PARTITION - FULL HEIGHT
- E = SMOKE BARRIER - FULL HEIGHT
- F = NON-RATED - FULL HEIGHT
- G = NON-RATED - 6" ABOVE FINISHED CEILING
- H = NON-RATED - TO UNDERSIDE OF CEILING
- J = PARTIAL HEIGHT/LOW PARTITION
- K = FURRING - FULL HEIGHT
- L = FURRING - 6" ABOVE FINISHED CEILING
- M = FURRING - TO UNDERSIDE OF CEILING
- N = SHAFT WALL - FULL HEIGHT

# FOLLOWING PARTITION TYPE INDICATES STUD SIZE (LAST #, IF SHOWN, INDICATES SECOND STUD):
- 1 = 3-5/8" METAL
- 2 = 6" METAL
- 3 = 7/8" METAL
- 4 = 1-5/8" METAL
- 5 = 2-1/2" METAL
- 6 = 4" METAL
- 7 = 8" METAL
- 8 = 2-1/2" CH METAL
- 9 = 4" CH METAL
- 10 = 6" CH METAL
- 11 = 8" CMU
- 16 = 16" CMU
- 12 = 12" CMU
- 13 = 8" SHOTCRETE
- 20 = 2x4 WOOD
- 21 = 2x6 WOOD
- 22 = 2x8 WOOD
- 23 = 2x4 FLAT WOOD

LETTER(S) AFTER NUMBER(S) PROVIDES SPECIFIC INFORMATION ABOUT WALL CONSTRUCTION:
- A = W/ ACOUSTICAL INSULATION & ACOUSTICAL PROTECTION @ OPENINGS
- B = W/ ACOUSTICAL INSULATION
- C = COMBO-STUDS: FULL HEIGHT & 6" ABOVE CEILING
- D = COMBO-STUDS: BELOW CEILING & 6" ABOVE CEILING
- E = STUD AND GYPSUM BOARD @ DIFFERENT HEIGHTS
- F = MULTIPLE LAYERS OF GYPSUM BOARD @ DIFFERENT HEIGHTS
- G = W/ ADDITIONAL ONE LAYER 5/8" GYPSUM BOARD ON INTERIOR SIDE
- H = W/ ADDITIONAL ONE LAYER 5/8" GYPSUM BOARD ON BOTH SIDES
- J = W/ 1/2" PLYWOOD BACKING
- K = W/ 3/4" PLYWOOD BACKING
- L = 5/8" CEMENT BOARD
- M = 1/2" CEMENT BOARD
- N = SHEAR WALL. SEE STRUCTURAL DRAWINGS
- P = WET AREA SURFACE ON ONE SIDE
- Q = WET AREA SURFACE ON BOTH SIDES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PROJECT TITLE:

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SHEET TITLE:

## INTERIOR PARTITION TYPES

SCALE: As indicated


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A800

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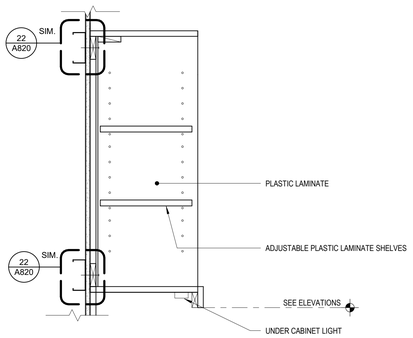
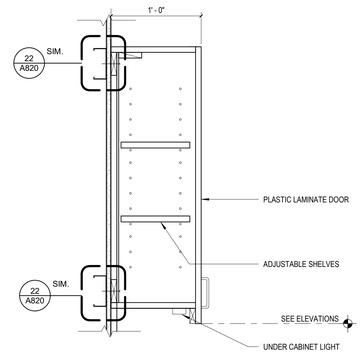
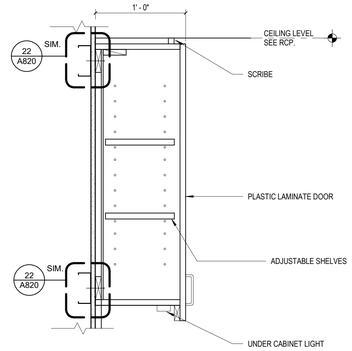


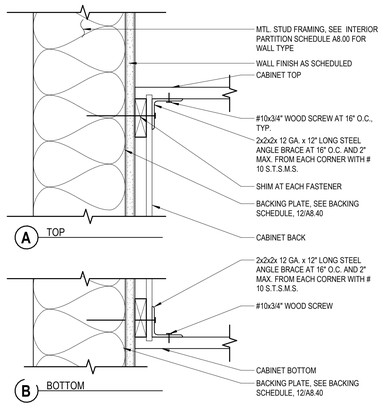

9 TYPICAL OPEN UPPER CABINET
1 1/2" = 1'-0"



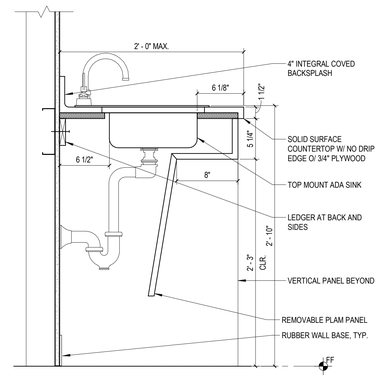

5 TYPICAL UPPER CABINET
1 1/2" = 1'-0"



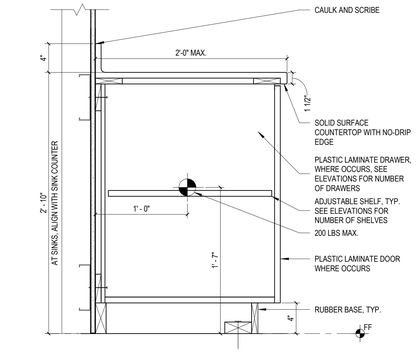

1 TYPICAL UPPER CABINET
1 1/2" = 1'-0"



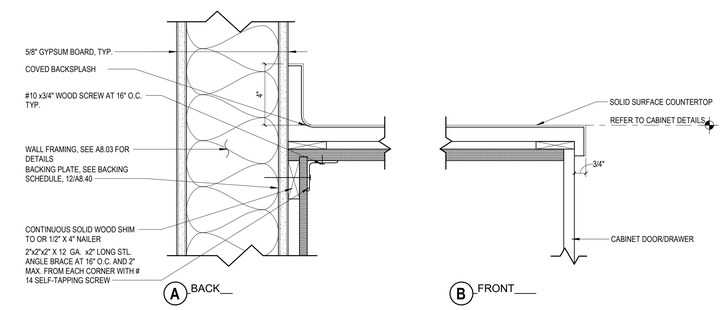

22 UPPER CABINET ANCHORAGE DETAIL
3" = 1'-0"



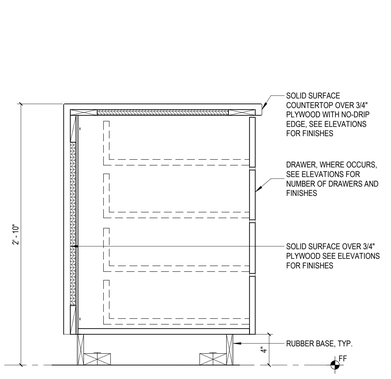

6 ACCESSIBLE SINK AT 24" DEEP COUNTER
1 1/2" = 1'-0"



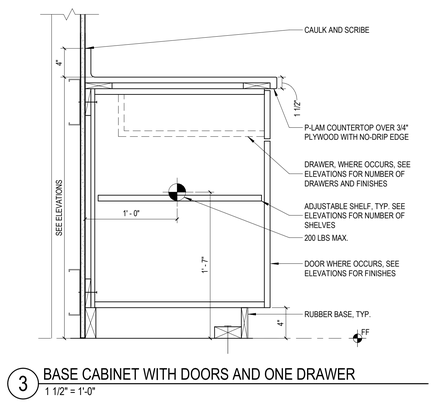

2 BASE CABINETS WITH DOORS
1 1/2" = 1'-0"



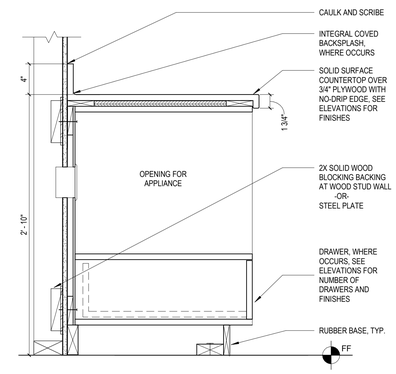

23 BASE CABINET ANCHORAGE AT WALL
3" = 1'-0"



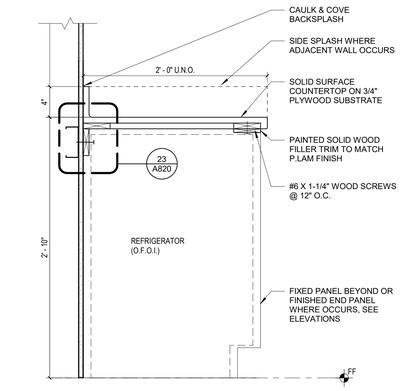

7 BASE CABINETS WITH DRAWERS
1 1/2" = 1'-0"



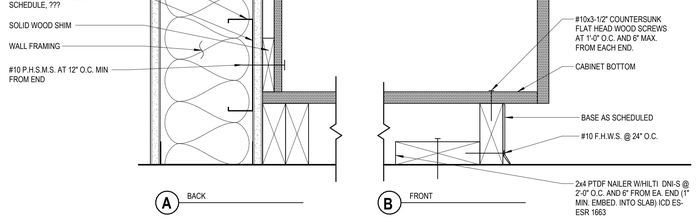

3 BASE CABINET WITH DOORS AND ONE DRAWER
1 1/2" = 1'-0"




8 BASE CABINET WITH MICROWAVE
1 1/2" = 1'-0"




4 TYPICAL COUNTER AT EQUIP.
1 1/2" = 1'-0"




24 BASE CABINET ANCHOARGE AT FLOOR
3" = 1'-0"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## CASEWORK DETAILS

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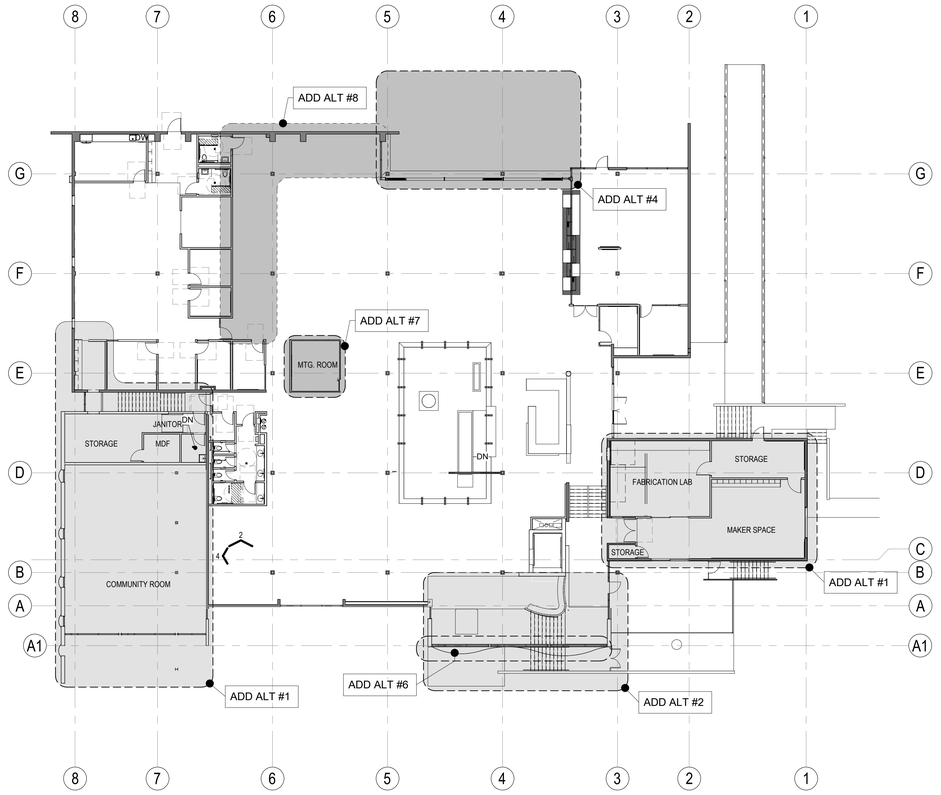


2 FLOOR PLAN - MAIN LEVEL - ADD ALTS - SEQUENCE
1/16" = 1'-0"




1 FLOOR PLAN - LOWER LEVEL - ADD ALTS - SEQUENCE
1/16" = 1'-0"

# ADDITIVE ALTERNATE SHEETS

| Sheet # | Sheet Name |
|---|---|

ARCHITECTURAL ADDITIVE ALTERNATES

AD GENERAL

| | |
|---|---|
| AD 0.0 | ADDITIVE ALTERNATES - SHEET LIST & KEYPLANS |
| AD 0.1 | ADD ALTERNATE SITE PLAN |
| AD 0.3 | ADD ALTERNATE EXTERIOR ELEVATIONS |
| AD 0.4 | ADD ALTERNATE BUILDING SECTIONS |

ADD ALTERNATE #1 - NOT IN USE - COMMUNITY ROOM ADDITION

| | |
|---|---|
| AD 1.1 | NOT IN USE - COMMUNITY ROOM ADDITION - FLOOR PLAN - LOWER LEVEL |
| AD 1.2 | NOT IN USE - COMMUNITY ROOM ADDITION - RCP - LOWER LEVEL |
| AD 1.3 | NOT IN USE - COMMUNITY ROOM ADDITION - FLOOR PLAN + RCP - MAIN LEVEL |
| AD 1.4 | NOT IN USE - COMMUNITY ROOM ADDITION - ROOF PLAN + WALL SECTIONS |
| AD 1.5 | NOT IN USE - ALTERNATE MID LEVEL - FLOOR PLAN, RCP, + ELEVATIONS |
| AD 1.7 | NOT IN USE - COMMUNITY ROOM ADDITION - INTERIOR & EXTERIOR ELEVATIONS |
| AD 1.8 | NOT IN USE - COMMUNITY ROOM ADDITION - INTERIOR ELEVATIONS |

ADD ALTERNATE #2 - NOT IN USE - ENLARGED LOBBY

| | |
|---|---|
| AD 2.1 | NOT IN USE - ENLARGED ENTRY - DEMO PLAN, FLOOR PLAN, ROOF PLAN + RCP |
| AD 2.2 | NOT IN USE - ENLARGED ENTRY - PLANS & INTERIOR ELEVATIONS |
| AD 2.3 | NOT IN USE - ENLARGED ENTRY - WALL SECTIONS |

ADD ALTERNATE #3 - NOT IN USE

| | |
|---|---|
| AD 3 | NOT IN USE |

ADD ALTERNATE #4 - NORTH PATIO + SLIDING DOORS

| | |
|---|---|
| AD 4 | NORTH PATIO + SLIDING DOORS - FLOOR PLAN + ELEVATIONS |

ADD ALTERNATE #5 - NOT IN USE - TERRAZO IN LIEU OF POLISHED CONCRETE

| | |
|---|---|
| AD 5 | NOT IN USE - TERRAZO IN LIEU OF POLISHED CONCRETE |

ADD ALTERNATE #6 - NOT IN USE - BRISE SOLIEL IN LIEU OF INTERIOR SHADES

| | |
|---|---|
| AD 6 | NOT IN USE - BRISE SOLEIL - FLOOR PLAN + ELEVATION |

ADD ALTERNATE #7 - MEETING ROOM ADDITION

| | |
|---|---|
| AD 7 | MEETING ROOM ADDITION - FLOOR PLAN, RCP, + ELEVATIONS |

ADD ALTERNATE #8 - WOOD SLAT CEILING

| | |
|---|---|
| AD 8 | WOOD SLAT CEILING |


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ADDITIVE ALTERNATES - SHEET LIST & KEYPLANS

SCALE: 1/16" = 1'-0"


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AD 0.0

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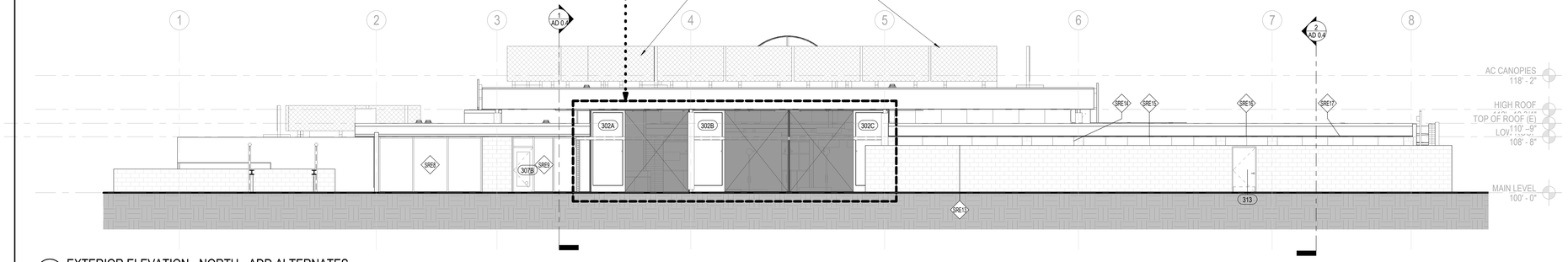
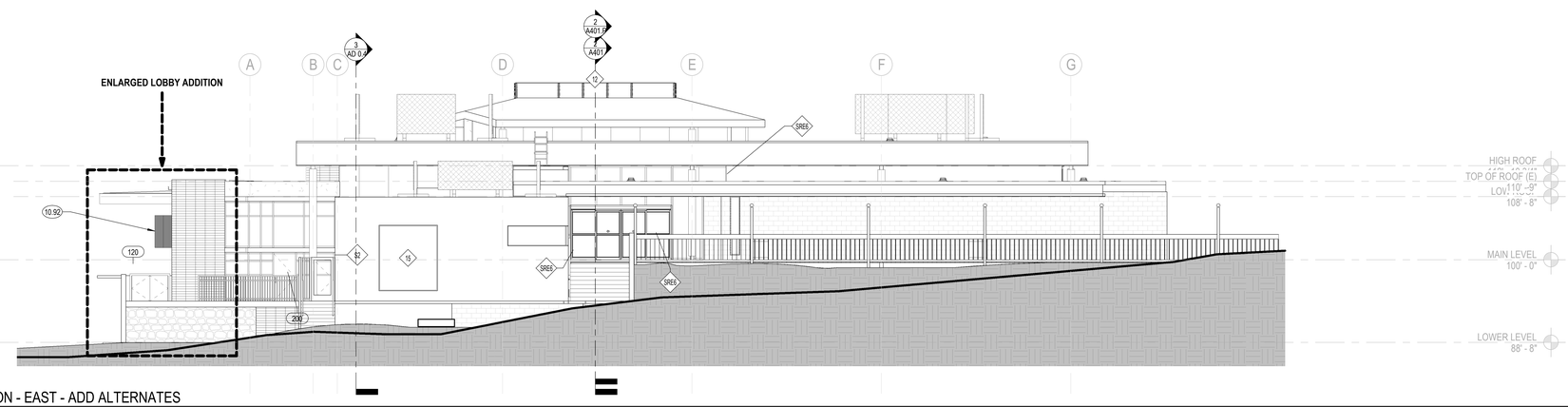
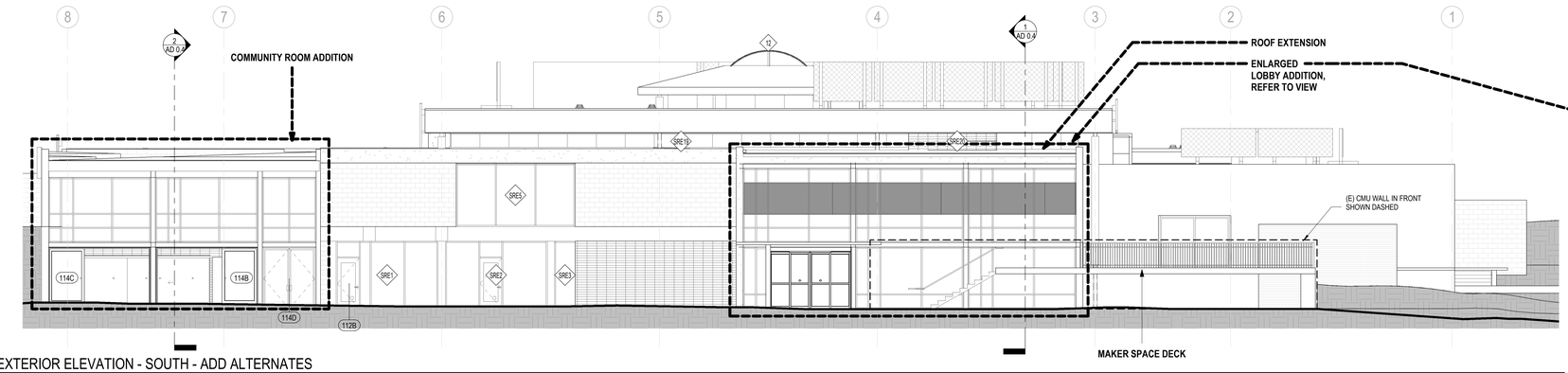


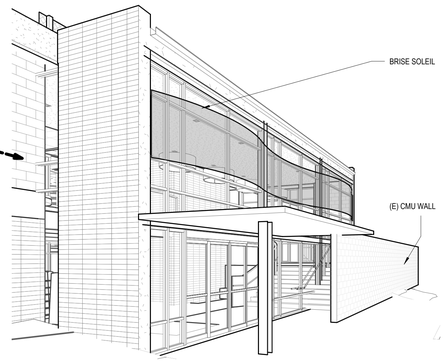

1 EXTERIOR ELEVATION - NORTH - ADD ALTERNATES
1/8" = 1'-0"

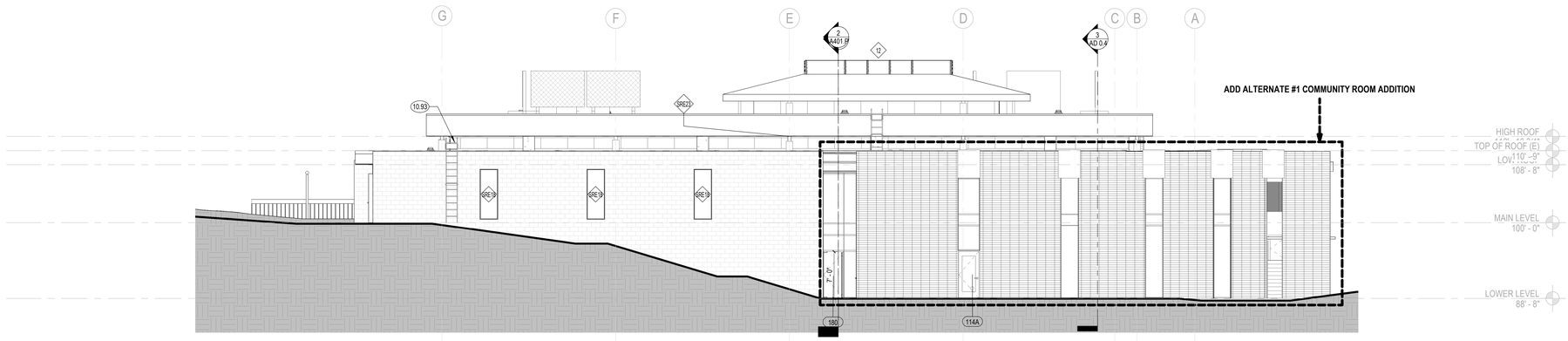



2 EXTERIOR ELEVATION - EAST - ADD ALTERNATES
1/8" = 1'-0"




3 EXTERIOR ELEVATION - SOUTH - ADD ALTERNATES
1/8" = 1'-0"




4 EXTERIOR ELEVATION - WEST - ADD ALTERNATES
1/8" = 1'-0"

## SHEET NOTES

A. PROVIDE ANTI-GRAFFITI COATING TO ALL ABOVE GRADE EXTERIOR EXPOSED CONCRETE, CMU AND PAINTED CEMENT PLASTER. ALIGN TERMINATION OF COATING UNIFORMLY TO NEAREST HORIZONTAL CLADDING JOINT, CHANGE IN PLANE, OR TRANSITION NOT LESS THAN 8'-0" A.F.F., U.N.O.

B. ALL EXPOSED STRUCTURAL STEEL SHALL RECEIVE FIELD-APPLIED HIGH PERFORMANCE COATING. COLOR TO BE SELECTED BY ARCHITECT. SEE SPECIFICATIONS.

C. ALL EXISTING WINDOWS, CASINGS, AND TRIMS TO BE DEMOLISHED AND REPLACED TO MATCH EXISTING, U.N.O.

D. FOR LOCATION OF CMU WALLS, SEE LEGEND. ALL OTHER EXTERIOR WALLS ARE CEMENT PLASTER.

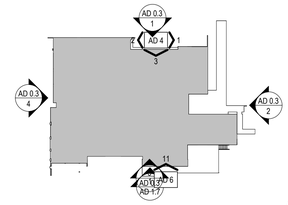
## KEYNOTES

10.92 BRISE SOLIEL
10.93 ROOF ACCESS LADDER

## LEGEND

| | |
|---|---|
| ### | DOOR TAG |
| E### | EXISTING (E) DOOR TO REMAIN |
| S# | WINDOW TAG |
| SRE# | STOREFRONT TO REPLACE EXISTING (E) WINDOW IN KIND |
| | (E) CMU |
| | 4X8X16 CMU IN STACKED BOND |

## KEY PLAN

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## ADD ALTERNATE EXTERIOR ELEVATIONS

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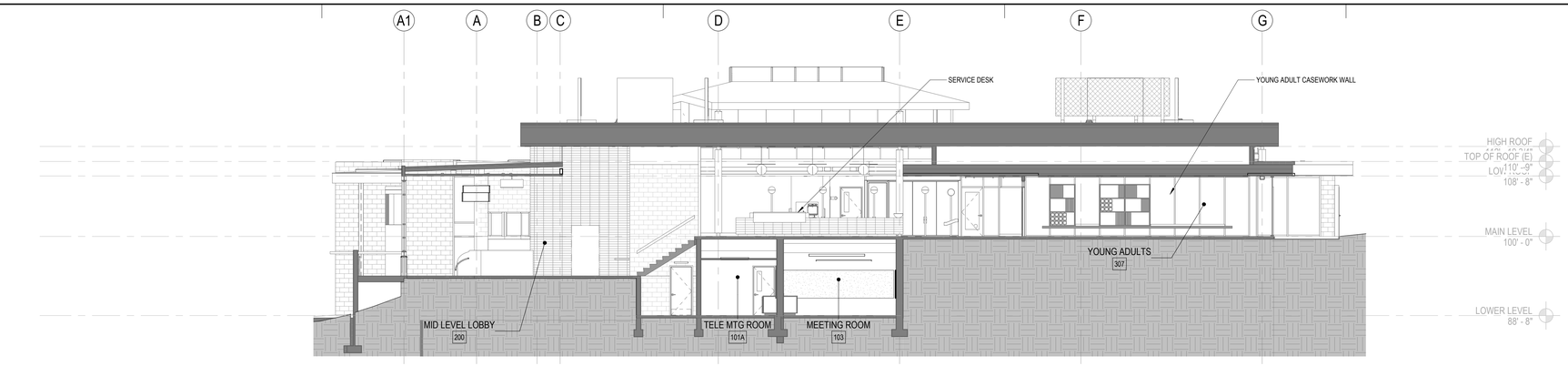
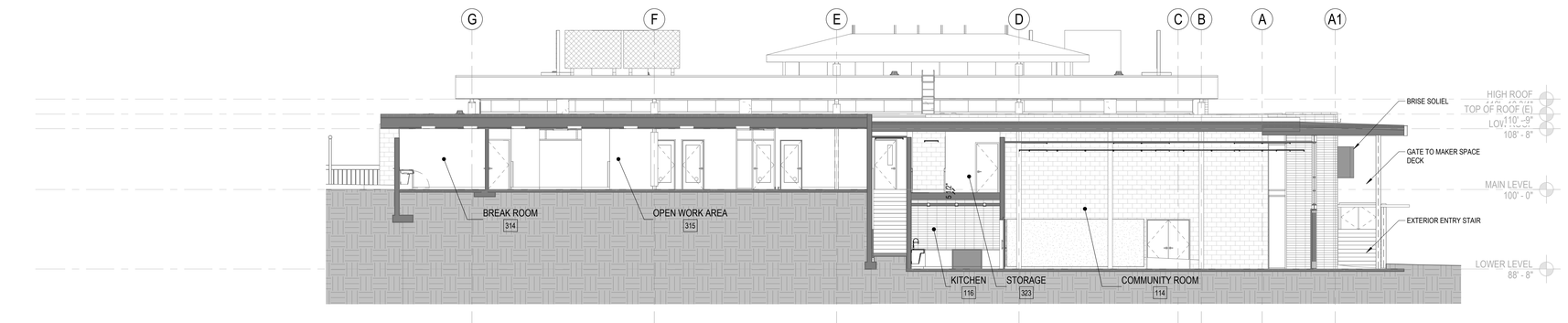
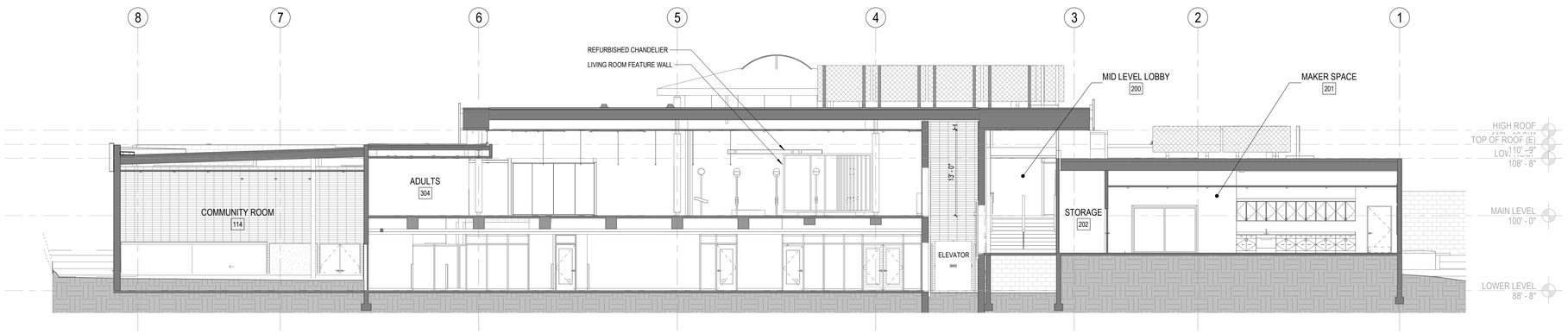



1 BUILDING SECTION 1, NORTH - SOUTH ADD ALTERNATE
1/8" = 1'-0"




2 BUILDING SECTION 2, NORTH-SOUTH ADD ALTERNATE
1/8" = 1'-0"




3 BUILDING SECTION 3, EAST - WEST ADD ALTERNATE
1/8" = 1'-0"

## SHEET NOTES

A. CONTRACTOR TO VERIFY ALL CONDITIONS PRIOR TO WORK
B. PROVIDE ACCESS PANELS AS REQUIRED PER APPLICABLE CODES FOR MAINTENANCE ACCESS TO INSTALLED MEP EQUIPMENT. PROVIDE STAINLESS STEEL ACCESS PANELS AT CERAMIC TILE LOCATIONS. COORDINATE TYPES AND LOCATIONS OF WALL ACCESS PANELS WITH ARCHITECT PRIOR TO INSTALLATION.
C. BLOCKING OR BACKING SHALL BE PROVIDED IN PARTITIONS AS REQUIRED FOR WALL ATTACHED ITEMS. SEE DETAIL XXX FOR BACKING SCHEDULE FOR CABINETRY, SHELVING, MARKER BOARDS, CHAIR RAILS, GRAB BARS, SHOWER SEATS, HANDRAILS, FIXTURES, EQUIPMENT, FURNISHINGS AND OTHER ITEMS AS REQUIRED.
D. MATCH EXISTING STUD DIMENSION WHERE NEW PARTITION FRAMING ALIGNS WITH EXISTING PARTITION. STUD SIZE INDICATED IN WALL TYPE NEEDS TO BE VERIFIED AT THESE CONDITIONS.
E. NEW WALLS ARE DIMENSIONED TO FACE OF STUD
F. ADJACENT IN-LINE PARTITIONS OF DIFFERENT TYPES SHALL BE CONSTRUCTED SUCH THAT EXPOSED FINISH SURFACES ARE FLUSH AND CONTINUOUS.
G. REPETITIVE FEATURES ARE NOT DRAWN TO THEIR ENTIRETY AND SHALL BE COMPLETELY PROVIDED AS IF DRAWN IN FULL.
H. PATCH AND REPAIR EXISTING WALLS WHERE DAMAGED DUE TO REMOVAL OF WOOD TRIM, HANDRAILS, AND OTHER ITEMS.
I. ALIGN NEW WALLS TO EXISTING STRUCTURAL GRID COLUMNS. V.I.F.

## KEYNOTES

## LEGEND

- PARTITION, FLOOR, OR ROOF SEE PARTITION TYPES ON SHEET A800
- EXISTING (E) WALL, FLOOR, OR ROOF TO REMAIN
- F1.AH — WALL TAG
- ### — DOOR TAG
- E### — EXISTING (E) DOOR TO REMAIN
- S# — WINDOW TAG
- SRE# — STOREFRONT TO REPLACE EXISTING (E) WINDOW IN KIND
- CMU

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## ADD ALTERNATE BUILDING SECTIONS

SCALE: 1/8" = 1'-0"

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AD 0.4

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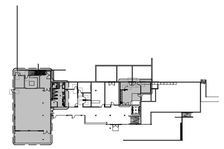
1 COMMUNITY ROOM ADDITION - FLOOR PLAN - LOWER LEVEL
1/4" = 1'-0"

## PLAN SHEET NOTES

A. CONTRACTOR TO VERIFY ALL CONDITIONS PRIOR TO WORK
B. PROVIDE ACCESS PANELS AS REQUIRED PER APPLICABLE CODES FOR MAINTENANCE ACCESS TO INSTALLED MEP EQUIPMENT. PROVIDE STAINLESS STEEL ACCESS PANELS AT CERAMIC TILE LOCATIONS. COORDINATE TYPES AND LOCATIONS OF WALL ACCESS PANELS WITH ARCHITECT PRIOR TO INSTALLATION.
C. BLOCKING OR BACKING SHALL BE PROVIDED IN PARTITIONS AS REQUIRED FOR WALL ATTACHED ITEMS. SEE DETAIL XXX FOR BACKING SCHEDULE FOR CABINETRY, SHELVING, MARKER BOARDS, CHAIR RAILS, GRAB BARS, SHOWER SEATS, HANDRAILS, FIXTURES, EQUIPMENT, FURNISHINGS AND OTHER ITEMS AS REQUIRED.
D. MATCH EXISTING STUD DIMENSION WHERE NEW PARTITION FRAMING ALIGNS WITH EXISTING PARTITION. STUD SIZE INDICATED IN WALL TYPE NEEDS TO BE VERIFIED AT THESE CONDITIONS.
E. NEW WALLS ARE DIMENSIONED TO FACE OF STUD
F. ADJACENT IN-LINE PARTITIONS OF DIFFERENT TYPES SHALL BE CONSTRUCTED SUCH THAT EXPOSED FINISH SURFACES ARE FLUSH AND CONTINUOUS.
G. REPETITIVE FEATURES ARE NOT DRAWN TO THEIR ENTIRETY AND SHALL BE COMPLETELY PROVIDED AS IF DRAWN IN FULL.
H. PATCH AND REPAIR EXISTING WALLS WHERE DAMAGED DUE TO REMOVAL OF WOOD TRIM, HANDRAILS, AND OTHER ITEMS.
I. ALIGN NEW WALLS TO EXISTING STRUCTURAL GRID COLUMNS. V.I.F.

## KEY PLAN



LOWER LEVEL - ADD ALT 1

## KEYNOTES

06.27 INFILL FLOOR
06.60 CUSTOM MILLWORK DISPLAY CASE, REFER TO ELEVATION FOR ADDITIONAL INFORMATION.

## PLAN LEGEND

- INTERIOR AND EXTERIOR SOFFITS ABOVE
- PARTITION, SEE PARTITION TYPES ON SHEET A800
- EXISTING (E) WALL TO REMAIN
- F1.AH — WALL TAG
- ### — DOOR TAG
- E### — EXISTING (E) DOOR TO REMAIN
- S# — WINDOW TAG
- SRE# — STOREFRONT TO REPLACE EXISTING (E) WINDOW IN KIND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PROJECT TITLE:

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600 E MARIPOSA STREET
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| PROJECT NO. | 2111010 |
| DATE: | 01-08-2024 |

SHEET TITLE:

**NOT IN USE - COMMUNITY ROOM ADDITION - FLOOR PLAN - LOWER LEVEL**

SCALE: As indicated


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AD 1.1

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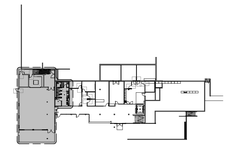
1 COMMUNITY ROOM ADDITION - RCP - LOWER LEVEL
1/4" = 1'-0"

## PLAN SHEET NOTES

A. CONTRACTOR TO VERIFY ALL CONDITIONS PRIOR TO WORK
B. PROVIDE ACCESS PANELS AS REQUIRED PER APPLICABLE CODES FOR MAINTENANCE ACCESS TO INSTALLED MEP EQUIPMENT. PROVIDE STAINLESS STEEL ACCESS PANELS AT CERAMIC TILE LOCATIONS. COORDINATE TYPES AND LOCATIONS OF WALL ACCESS PANELS WITH ARCHITECT PRIOR TO INSTALLATION.
C. BLOCKING OR BACKING SHALL BE PROVIDED IN PARTITIONS AS REQUIRED FOR WALL ATTACHED ITEMS. SEE DETAIL XXX FOR BACKING SCHEDULE FOR CABINETRY, SHELVING, MARKER BOARDS, CHAIR RAILS, GRAB BARS, SHOWER SEATS, HANDRAILS, FIXTURES, EQUIPMENT, FURNISHINGS AND OTHER ITEMS AS REQUIRED.
D. MATCH EXISTING STUD DIMENSION WHERE NEW PARTITION FRAMING ALIGNS WITH EXISTING PARTITION. STUD SIZE INDICATED IN WALL TYPE NEEDS TO BE VERIFIED AT THESE CONDITIONS.
E. NEW WALLS ARE DIMENSIONED TO FACE OF STUD
F. ADJACENT IN-LINE PARTITIONS OF DIFFERENT TYPES SHALL BE CONSTRUCTED SUCH THAT EXPOSED FINISH SURFACES ARE FLUSH AND CONTINUOUS.
G. REPETITIVE FEATURES ARE NOT DRAWN TO THEIR ENTIRETY AND SHALL BE COMPLETELY PROVIDED AS IF DRAWN IN FULL.
H. PATCH AND REPAIR EXISTING WALLS WHERE DAMAGED DUE TO REMOVAL OF WOOD TRIM, HANDRAILS, AND OTHER ITEMS.
I. ALIGN NEW WALLS TO EXISTING STRUCTURAL GRID COLUMNS. V.I.F.

## KEY PLAN



LOWER LEVEL - ADD ALT 1.2

## KEYNOTES

26.46 LINEAR UP LIGHT ON GYPSUM BOARD SHELF

## LEGEND

**WD 2** - WOOD SLAT CEILING SYSTEM, REFER TO FINISH SCHEDULE FOR ADDITIONAL INFORMATION
**SS-1** - 15/16" SUSPENSION GRID, BLACK PLENUM ABOVE TO BE PAINTED PT5, REFER TO FINISH SCHEDULE FOR ADDITIONAL INFORMATION

**ACT 1** - 24" X 24" ACT CEILING, REFER TO FINISH SCHEDULE FOR ADDITIONAL INFORMATION
**SS-2** - 15/16" SUSPENSION GRID, WHITE

**ACT 1** - 24" X 48" ACT CEILING, SEE A240 FOR FINISH
**SS-2** - 15/16" SUSPENSION GRID, WHITE

**GB 2** - GYPSUM BOARD CLG, FRAMED SYSTEM, PAINTED.

PAINTED EXISTING STRUCTURE

PAINTED CEMENT PLASTER

**MTL-3** DECORATIVE METAL PANEL

10'-0" CEILING HEIGHT A.F.F.

WT-1 DUAL ROLLER SHADE, ELECTRIC SEE FOR FINISH SEE A240: MS1, MS2

LIGHT FIXTURES, SED

MECHANICAL DIFFUSERS, SMD

WIRELESS ACCESS POINT, SEE TELECOMM DRAWINGS

FIRE SPRINKLERS, SEE FIRE PROTECTION DRAWINGS

FIRE ALARM DEVICE , SEE FIRE ALARM DRAWINGS

ROOF ACCESS HATCH, SEE ROOF PLAN

ACCESS PANEL. (CONTRACTOR TO VERIFY IN FIELD, BEST LOCATION, SIZE & NEED. COORDINATE W/ OTHER DISCIPLINES WHERE ACCES IS NEEDED.)

EXIT SIGNAGE; SEE ELECTRICAL DRAWINGS

S# WINDOW TAG

SRE# STOREFRONT TO REPLACE EXISTING (E) WINDOW IN KIND

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SHEET TITLE:

## NOT IN USE - COMMUNITY ROOM ADDITION - RCP - LOWER LEVEL

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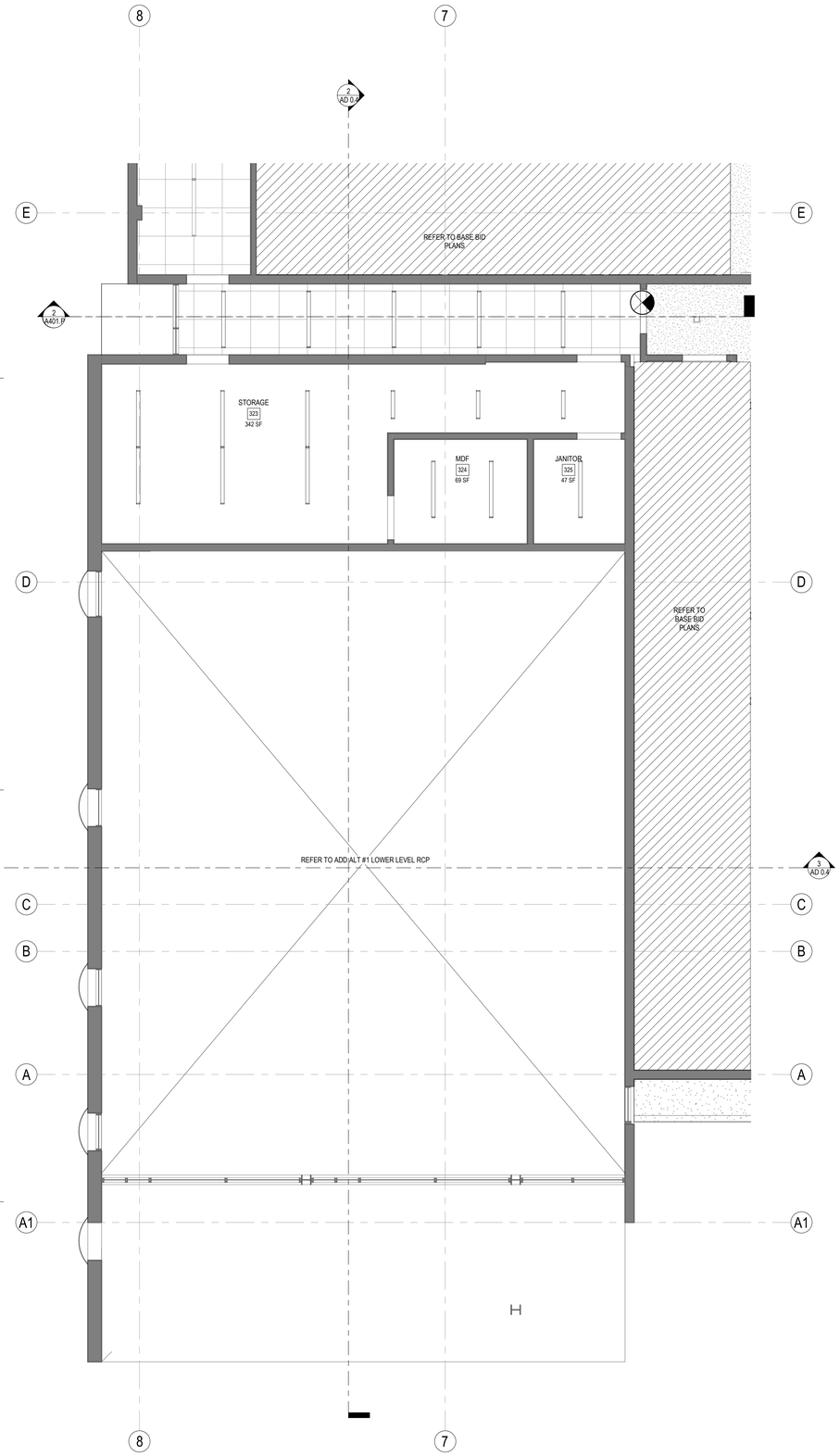
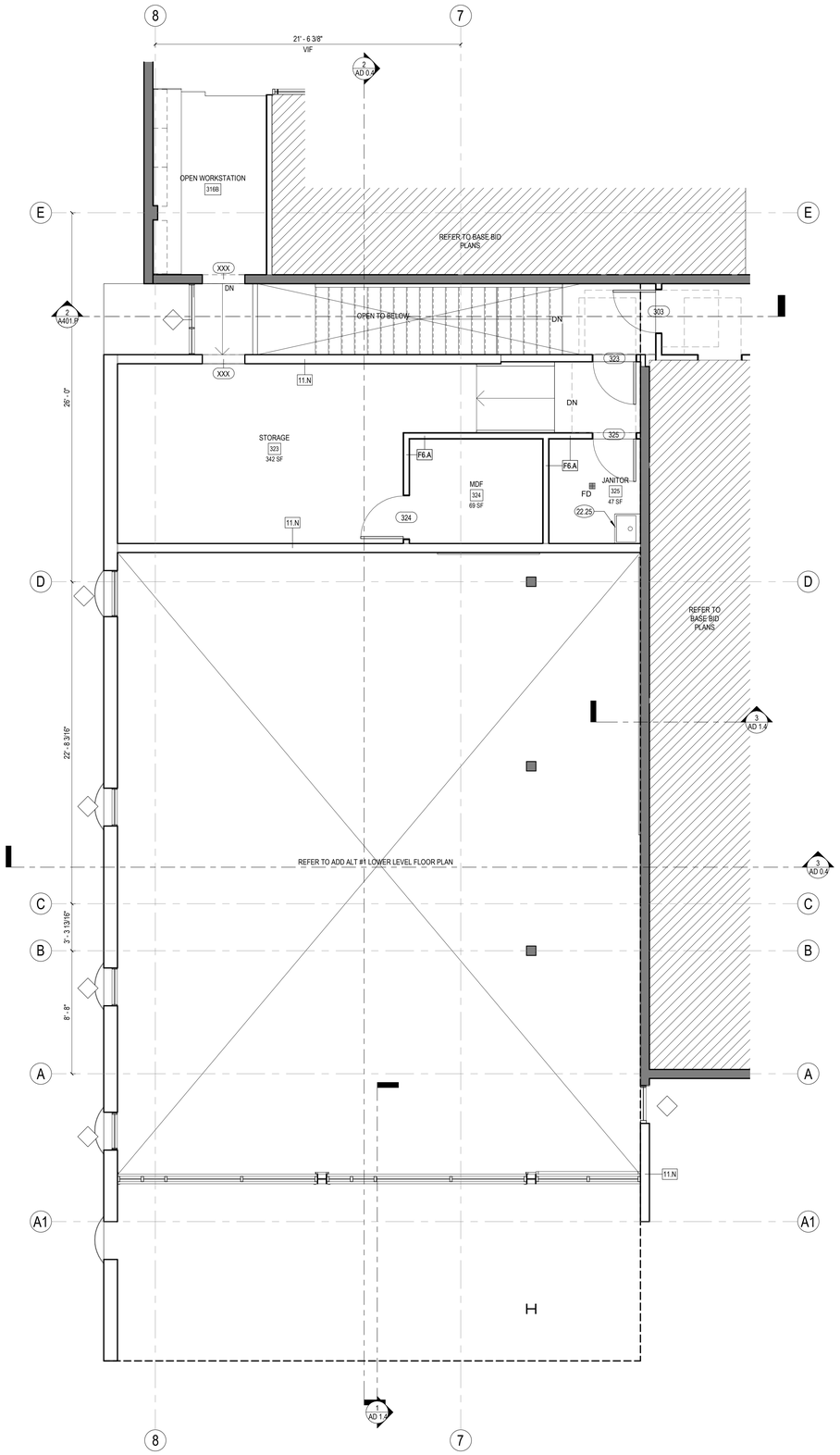



1 COMMUNITY ROOM ADDITION - RCP - MAIN LEVEL
1/4" = 1'-0"




2 COMMUNITY ROOM ADDITION - FLOOR PLAN - MAIN LEVEL
1/4" = 1'-0"

## PLAN SHEET NOTES

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B. PROVIDE ACCESS PANELS AS REQUIRED PER APPLICABLE CODES FOR MAINTENANCE ACCESS TO INSTALLED MEP EQUIPMENT. PROVIDE STAINLESS STEEL ACCESS PANELS AT CERAMIC TILE LOCATIONS. COORDINATE TYPES AND LOCATIONS OF WALL ACCESS PANELS WITH ARCHITECT PRIOR TO INSTALLATION.
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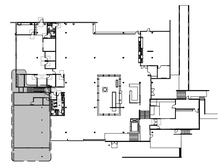
I. ALIGN NEW WALLS TO EXISTING STRUCTURAL GRID COLUMNS. V.I.F.

## KEY PLAN



MAIN LEVEL - ADD ALT 1

## KEYNOTES

22.25 MOP SINK

## PLAN LEGEND

- INTERIOR AND EXTERIOR SOFFITS ABOVE
- PARTITION, SEE PARTITION TYPES ON SHEET A800
- EXISTING (E) WALL TO REMAIN
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| DATE: | 01-08-2024 |

SHEET TITLE:

NOT IN USE - COMMUNITY ROOM ADDITION - FLOOR PLAN + RCP - MAIN LEVEL

SCALE: As indicated

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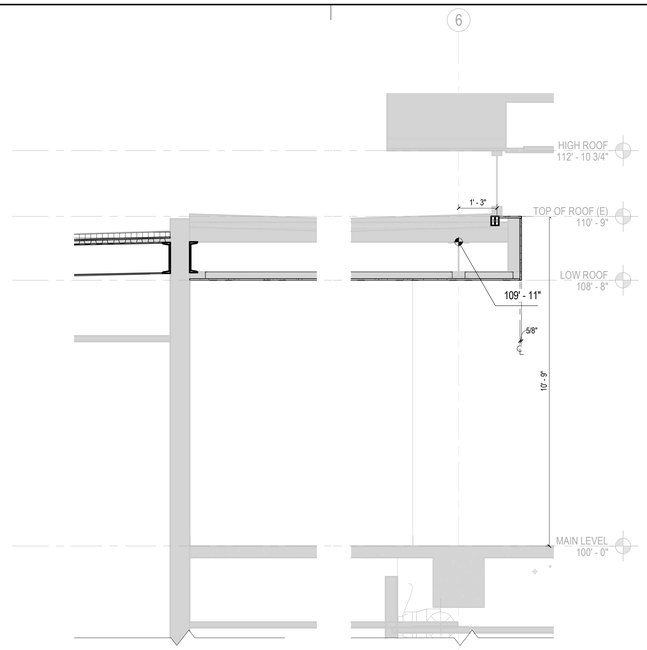
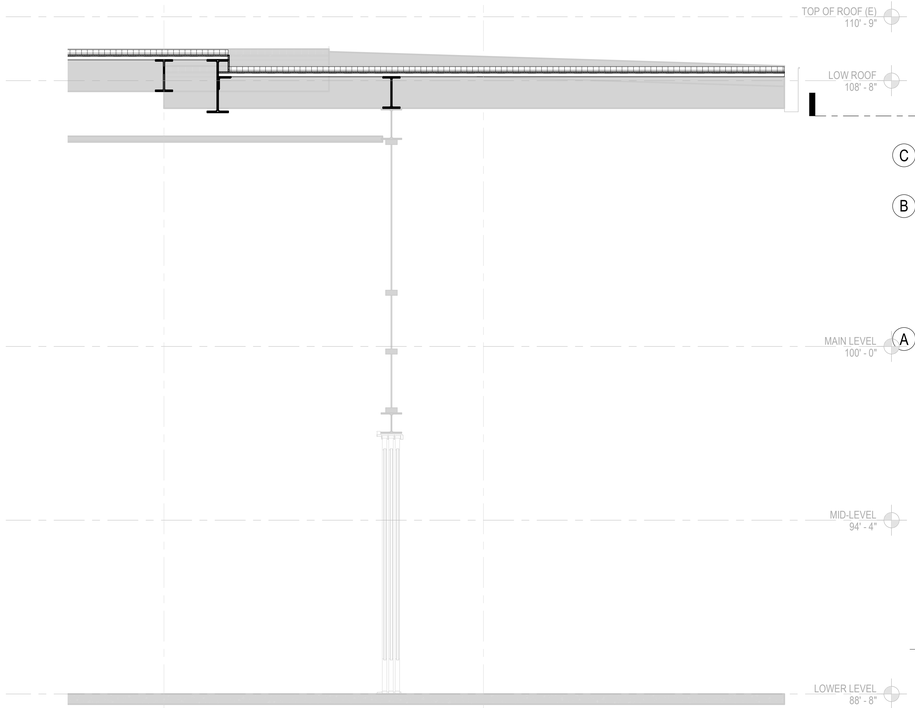
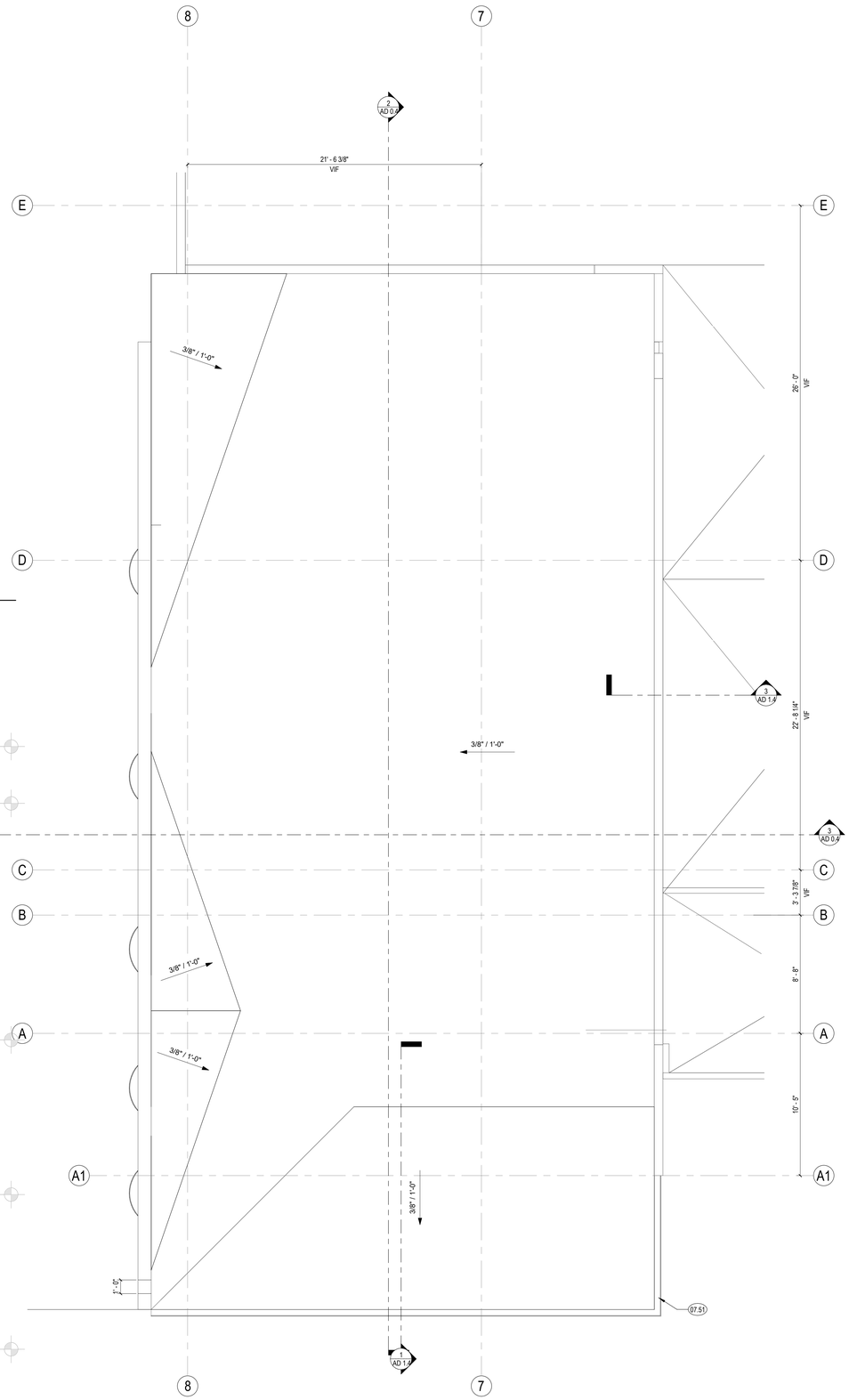



3 COMMUNITY ROOM ADDITION - WALL SECTION - 2
1/2" = 1'-0"




1 COMMUNITY ROOM ADDITION - WALL SECTION AT GLAZING
1/2" = 1'-0"




2 COMMUNITY ROOM ADDITION - ROOF PLAN - LOW ROOF
1/4" = 1'-0"

## SHEET NOTES

1. PARAPETS AND CURBS SHOULD BE A MINIMUM OF 8 INCHES ABOVE THE FINISHED ROOF SURFACE (INCLUDING CRICKETS) TO THE BOTTOM OF THE LOWEST EDGE OF THE PARAPET CAP OR CURB.
2. SKYLIGHTS, HATCHES AND MECHANICAL EQUIPMENT SHOULD BE INSTALLED ON CURBS WITH MINIMUM 8 INCH HEIGHT ABOVE THE ADJACENT ROOF SURFACE TO THE LOWEST EDGE OF THE CURB FLASHING FLANGE. FLASHING CAPS SHOULD EXTEND DOWN TO COVER THE TOP OF THE ROOFING BY 4 INCHES MINIMUM.
3. ROOF MOUNTED MECHANICAL EQUIPMENT MUST BE CAREFULLY COORDINATED WITH OTHER ROOF ELEMENTS SUCH AS SCREENS AND PARAPETS TO ENSURE ADEQUATE CLEARANCE FOR MAINTENANCE ACCESS AND VENTILATION. AVOID PLACING ROOF PENETRATIONS SUCH AS HATCHES OR UTILITY SERVICE PORTS LESS THAN 24 INCHES FROM PARAPETS OR ROOF EDGES.
4. HOT EXHAUST VENTS, STACKS AND OTHER FACILITY SERVICE PENETRATIONS SHOULD BE FLASHED WITH PREFABRICATED COLLARS AS RECOMMENDED BY THE MEMBRANE ROOF MANUFACTURER.
5. ROOF PENETRATIONS SHOULD BE SPACED A MINIMUM OF 12 INCHES APART CURB-TO-CURB, AND KEPT 24 INCHES AWAY FROM PARAPET WALLS IN ORDER TO PROVIDE CONSTRUCTION AND MAINTENANCE CLEARANCE FOR PENETRATION FLASHINGS.
6. FLASHING FLANGES SHOULD BE WELDED TO DUCTWORK AND METAL PENETRATING ELEMENTS WHEREVER POSSIBLE AND SHOULD NOT RELY ON "DRAW-BAND" INSTALLATIONS.
7. CRICKETS TO BE BUILT UP WITH TAPERED RIGID INSULATION.
8. 
9. ROOF FINISH TO BE PVC MEMBRANE ROOFING
10. PROVIDE 6" MIN. UN-WELDED SEAM AT DRAINAGE SIDE OF WALKWAYS AT SPACING PER MFR.
11. FOR TEMPORARY, PORTABLE, NON-PENETRATING FALL PROTECTION ACCESSORIES, SEE DETAIL
12. FOR STRUCTURAL FRAMING PLAN AT CLERESTORY WINDOWS, REFER TO SHEET S300.

## KEYNOTES

07.51 ROOF GUTTER, PAINTED.

## LEGEND

- FOOTPRINT OF BUILDING BELOW
- INTERIOR AND EXTERIOR SOFFITS ABOVE
- SPOT ELEVATION
- ROOF ACCESS HATCH
- ROOF WALKWAY
- ROOF DRAIN WITH OVERFLOW
- SRE# — STOREFRONT TO REPLACE EXISTING (E) WINDOW IN KIND
- MAX. AREA FOR FUTURE SOLAR PHOTOVOLTAIC PANELS, UNDER SEPARATE INCREMENT AND BID. SHOWN FOR REFERENCE ONLY. SOLAR PANELS TO BE MIN. 4'-0" FROM ROOF EDGE.

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| DATE: | 01-08-2024 |

SHEET TITLE:
NOT IN USE - COMMUNITY ROOM ADDITION - ROOF PLAN + WALL SECTIONS

SCALE: As indicated

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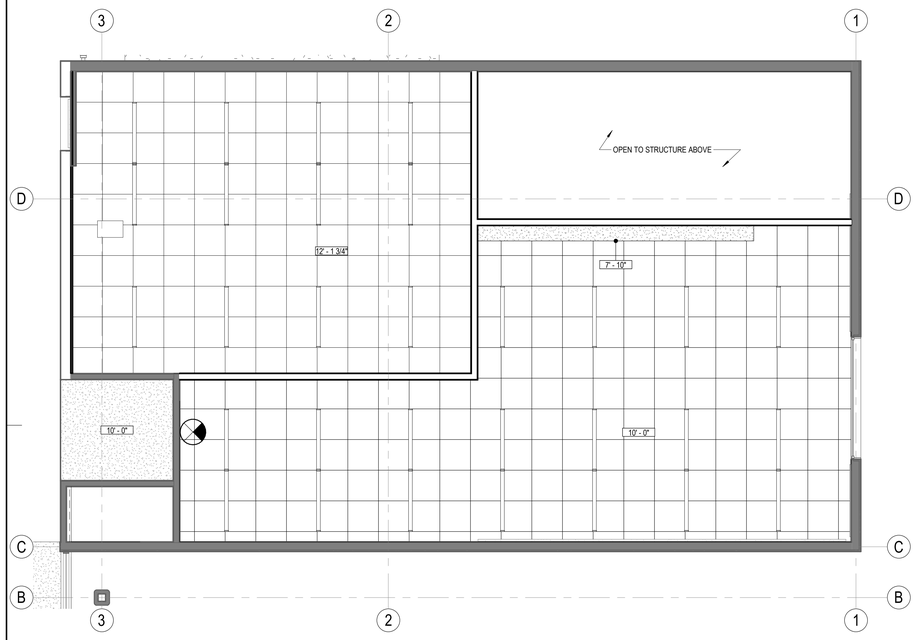
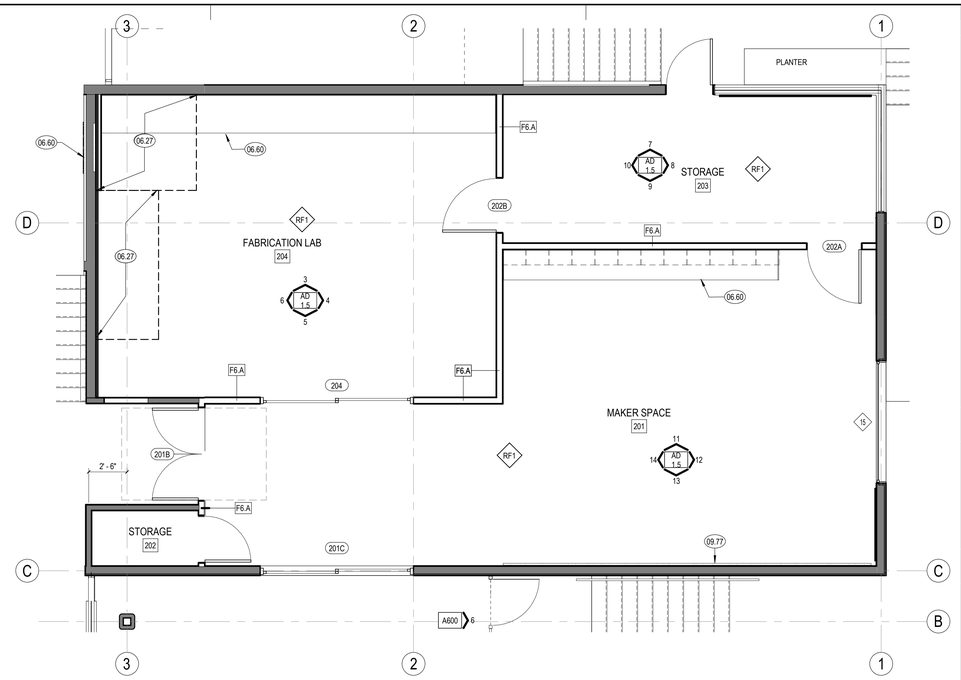



1 ALTERNATE MID LEVEL - RCP
1/4" = 1'-0"




2 ALTERNATE MID LEVEL - FLOOR PLAN
1/4" = 1'-0"

## ENLARGED PLAN SHEET NOTES

A. CONTRACTOR TO VERIFY ALL CONDITIONS PRIOR TO WORK
B. PROVIDE ACCESS PANELS AS REQUIRED PER APPLICABLE CODES FOR MAINTENANCE ACCESS TO INSTALLED MEP EQUIPMENT. PROVIDE STAINLESS STEEL ACCESS PANELS AT CERAMIC TILE LOCATIONS. COORDINATE TYPES AND LOCATIONS OF WALL ACCESS PANELS WITH ARCHITECT PRIOR TO INSTALLATION.
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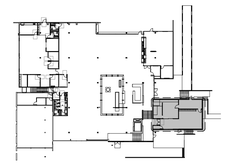
## ENLARGED PLAN ELEVATION KEYNOTES

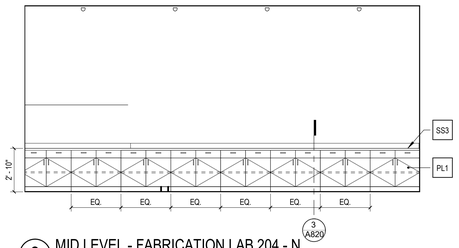
06.27 INFILL FLOOR
06.60 CUSTOM MILLWORK DISPLAY CASE, REFER TO ELEVATION FOR ADDITIONAL INFORMATION.
09.77 FABRIC WRAPPED ACOUSTIC PANEL, SEE ELEVATIONS FOR EXTENT AND FINISH

## KEY PLAN

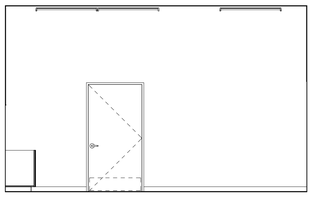


KEY PLAN - MAIN LEVEL - ADD ALT 1.6

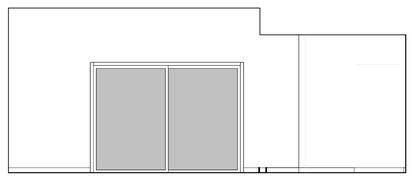
## ENLARGED PLAN LEGEND




3 MID LEVEL - FABRICATION LAB 204 - N
1/4" = 1'-0"



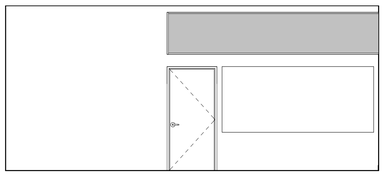
4 MID LEVEL - FABRICATION LAB 204 - E
1/4" = 1'-0"



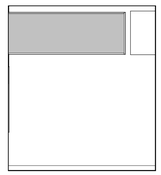
5 MID LEVEL - FABRICATION LAB 204 - S
1/4" = 1'-0"



6 MID LEVEL - FABRICATION LAB 204 - W
1/4" = 1'-0"



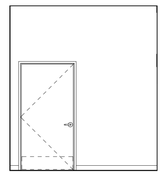
7 MID LEVEL - STORAGE 203 - N
1/4" = 1'-0"



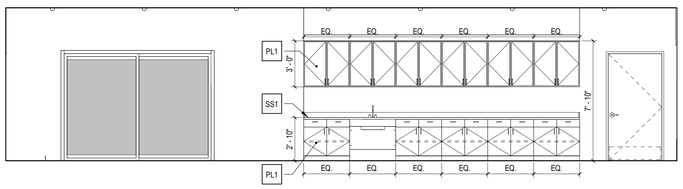
8 MID LEVEL - STORAGE 203 - E
1/4" = 1'-0"



9 MID LEVEL - STORAGE 203 - S
1/4" = 1'-0"



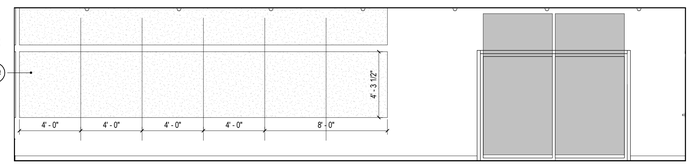
10 MID LEVEL - STORAGE 203 - W
1/4" = 1'-0"



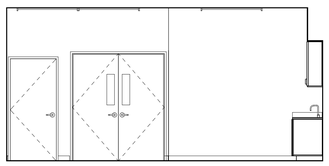

11 MID LEVEL - MAKER SPACE 201 - N
1/4" = 1'-0"




12 MID LEVEL - MAKER SPACE 201 - E
1/4" = 1'-0"




13 MID LEVEL - MAKER SPACE 201 - S
1/4" = 1'-0"



14 MID LEVEL - MAKER SPACE 201 - W
1/4" = 1'-0"

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SHEET TITLE:
**NOT IN USE - ALTERNATE MID LEVEL - FLOOR PLAN, RCP, + ELEVATIONS**

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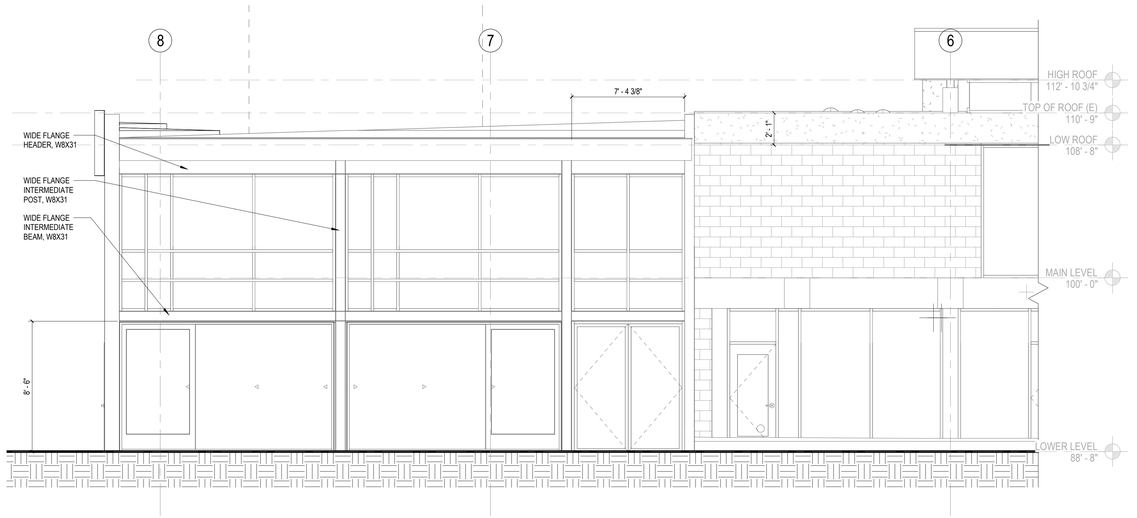
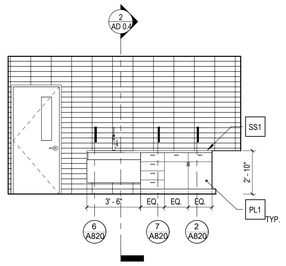
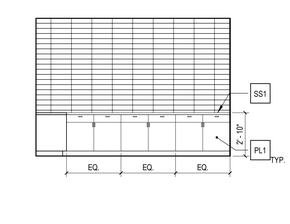


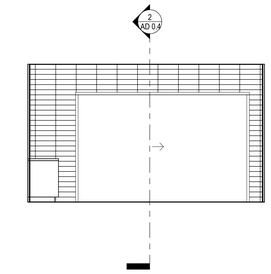

1 EXTERIOR - COMMUNITY ROOM ADDITION - S
1/4" = 1'-0"



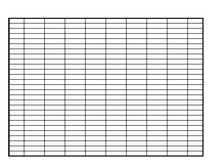

2 LOWER LEVEL - KITCHEN 116 - N
1/4" = 1'-0"



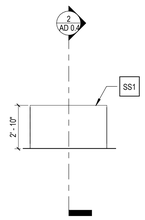

3 LOWER LEVEL - KITCHEN 116 - E
1/4" = 1'-0"



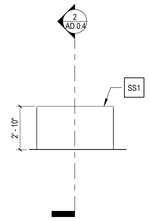

4 LOWER LEVEL - KITCHEN 116 - S
1/4" = 1'-0"



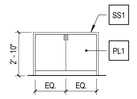
5 LOWER LEVEL - KITCHEN 116 - W
1/4" = 1'-0"



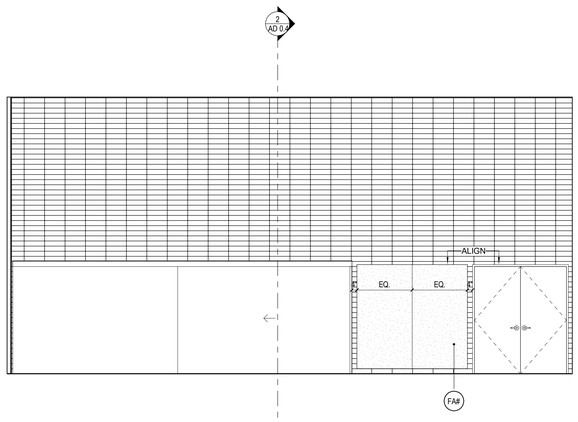

6 LOWER LEVEL - KITCHEN 116 ISLAND - N
1/4" = 1'-0"



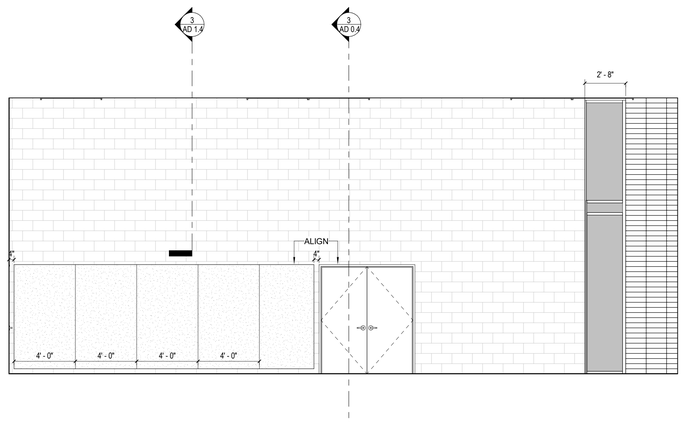

7 LOWER LEVEL - KITCHEN 116 ISLAND - S
1/4" = 1'-0"



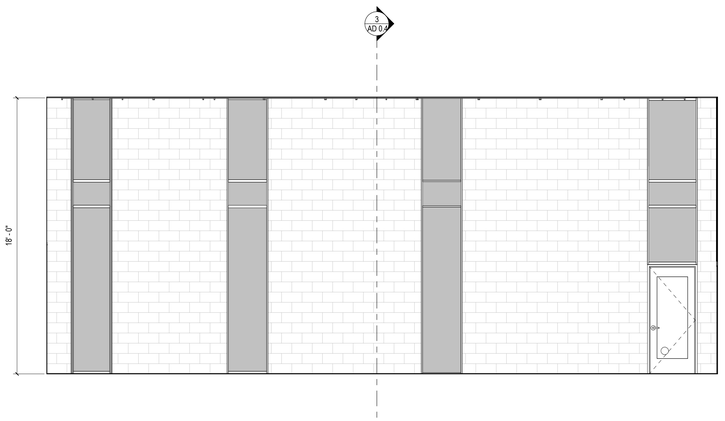

8 LOWER LEVEL - KITCHEN 116 ISLAND - W
1/4" = 1'-0"




9 LOWER LEVEL - COMMUNITY ROOM 114 - N
1/4" = 1'-0"




10 LOWER LEVEL - COMMUNITY ROOM 114 - E
1/4" = 1'-0"

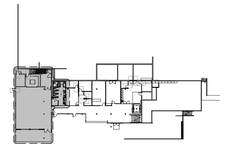



11 LOWER LEVEL - COMMUNITY ROOM 114 - W
1/4" = 1'-0"

## ENLARGED PLAN SHEET NOTES

## ENLARGED PLAN ELEVATION KEYNOTES

## KEY PLAN



LOWER LEVEL - ADD ALT 1.5

## ENLARGED PLAN LEGEND

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Claremont, CA 91711

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PROJECT TITLE:

# ALTADENA MAIN LIBRARY

600 E MARIPOSA STREET
ALTADENA, CA 91001

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| PROJECT NO. | 2111010 |
| DATE: | 01-08-2024 |
| SHEET | NOT IN USE - COMMUNITY ROOM ADDITION - INTERIOR & EXTERIOR ELEVATIONS |
| SCALE: | As indicated |

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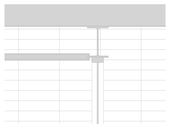
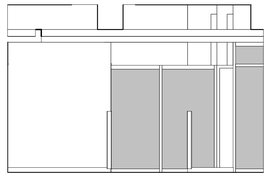
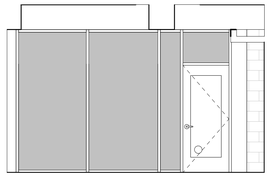


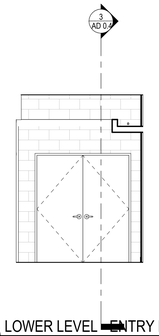
1 INTERIOR TO EXTERIOR WOOD SLAT CEILING
1/2" = 1'-0"



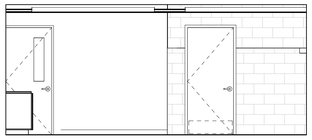
2 LOWER LEVEL - ENTRY LOBBY 100 HALL - N
1/4" = 1'-0"



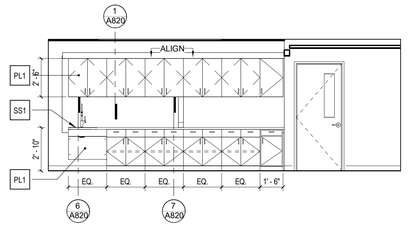
3 LOWER LEVEL - ENTRY LOBBY 100 HALL - S
1/4" = 1'-0"



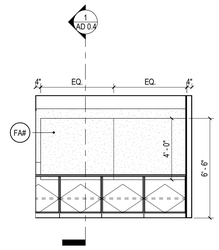

4 LOWER LEVEL - ENTRY LOBBY 100 HALL - W
1/4" = 1'-0"



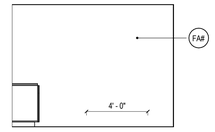
5 LOWER LEVEL - CO-WORK 101 - E
1/4" = 1'-0"



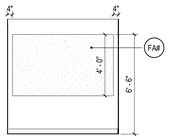

6 LOWER LEVEL - CO-WORK 101 - W
1/4" = 1'-0"



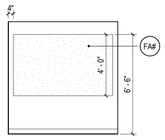

7 LOWER LEVEL - TELE MTG ROOM 101A - N
1/4" = 1'-0"



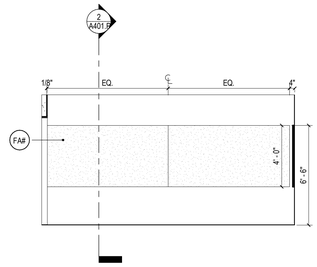

8 LOWER LEVEL - TELE MTG ROOM 101A - E
1/4" = 1'-0"



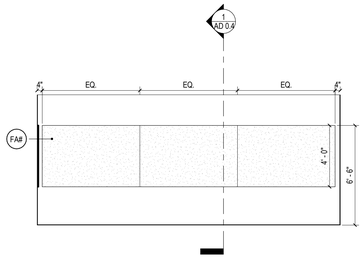

9 LOWER LEVEL - TELE MTG ROOM 101B - S
1/4" = 1'-0"



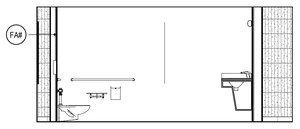

10 LOWER LEVEL - TELE MTG ROOM 101B - W
1/4" = 1'-0"



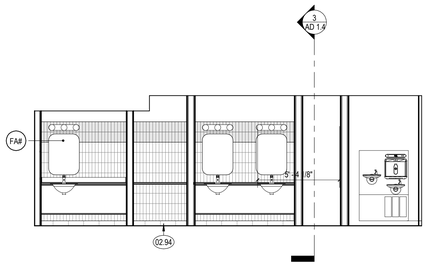

11 LOWER LEVEL - MEETING ROOM 103 - W
1/4" = 1'-0"



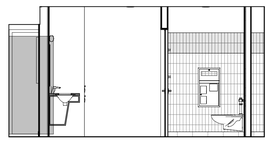

12 LOWER LEVEL - MEETING ROOM 103 - N
1/4" = 1'-0"



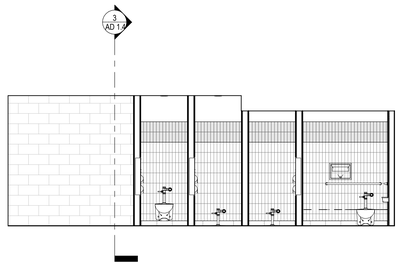

13 LOWER LEVEL - MEETING ROOM 113 - N
1/4" = 1'-0"




14 LOWER LEVEL - MEETING ROOM 113 - E
1/4" = 1'-0"



15 LOWER LEVEL - MEETING ROOM 113 - S
1/4" = 1'-0"

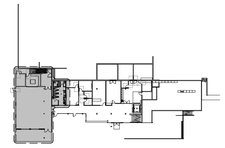



16 LOWER LEVEL - MEETING ROOM 113 - W
1/4" = 1'-0"

## ENLARGED PLAN SHEET NOTES

## ENLARGED PLAN ELEVATION KEYNOTES

## KEY PLAN



LOWER LEVEL - ADD ALT 1.4

## ENLARGED PLAN LEGEND

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PROJECT TITLE:

# ALTADENA MAIN LIBRARY

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ALTADENA, CA 91001

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| PROJECT NO. | 2111010 |
| DATE: | 01-08-2024 |

SHEET TITLE:

**NOT IN USE - COMMUNITY ROOM ADDITION - INTERIOR ELEVATIONS**

SCALE: As indicated

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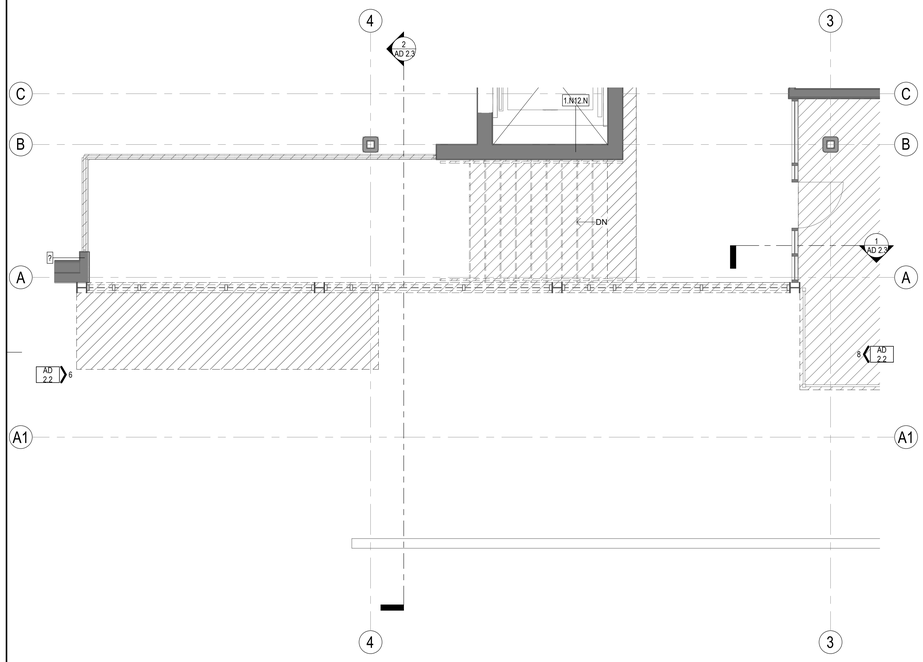
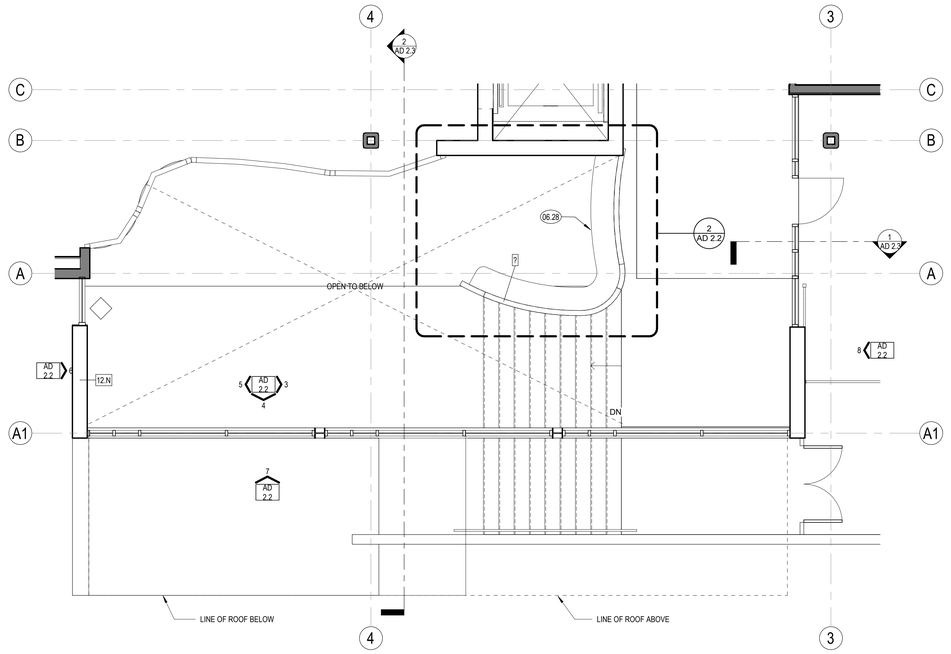
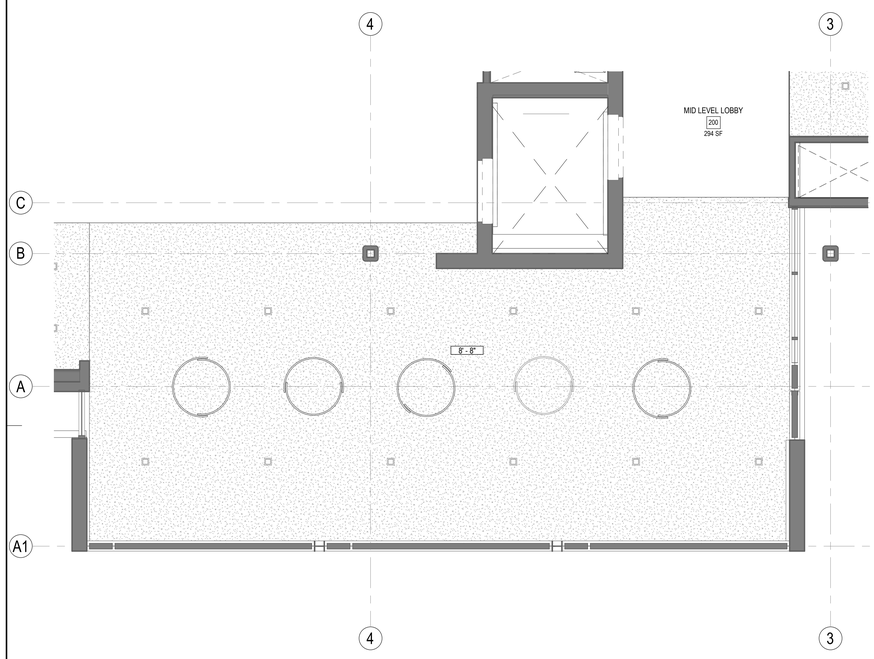


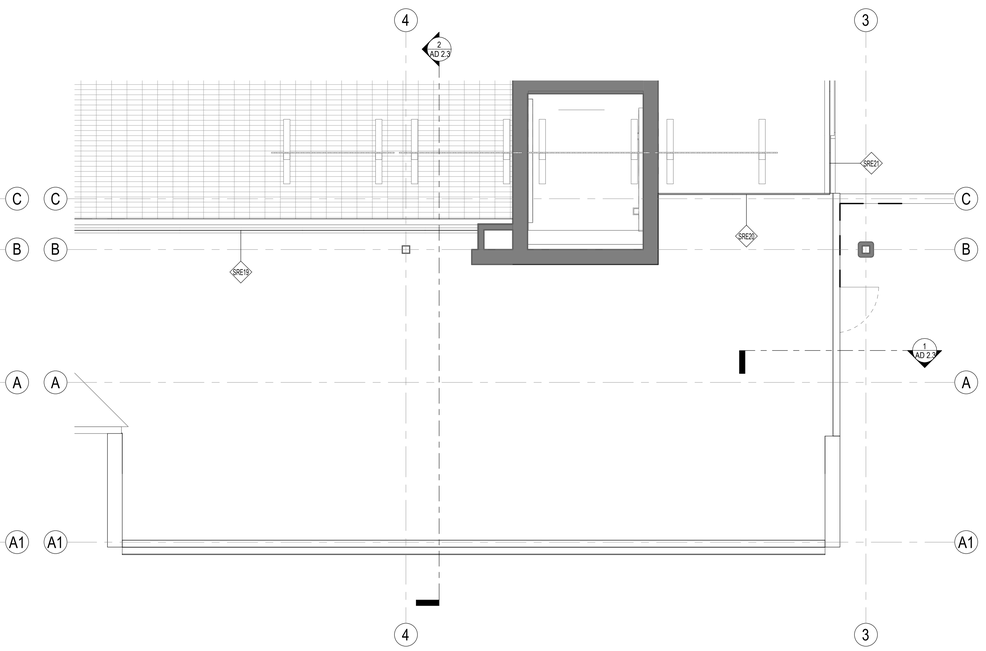

18 ENLARGED ENTRY - DEMO PLAN - LOWER LEVEL
1/4" = 1'-0"




10 ENLARGED ENTRY - FLOOR PLAN - LOWER LEVEL
1/4" = 1'-0"




20 ENLARGED ENTRY - REFLECTED CEILING PLAN
1/4" = 1'-0"




12 ENLARGED ENTRY - ROOF PLAN - LOW ROOF
1/4" = 1'-0"

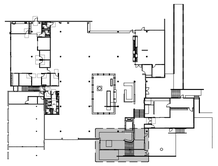
N

## ENLARGED PLAN SHEET NOTES

## ENLARGED PLAN ELEVATION KEYNOTES

06.28 CURVED BENCH

## KEY PLAN



MAIN LEVEL - ADD ALT 2

## ENLARGED PLAN LEGEND

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PROJECT TITLE:

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SHEET TITLE:
**NOT IN USE - ENLARGED ENTRY - DEMO PLAN, FLOOR PLAN, ROOF PLAN + RCP**

SCALE: As indicated

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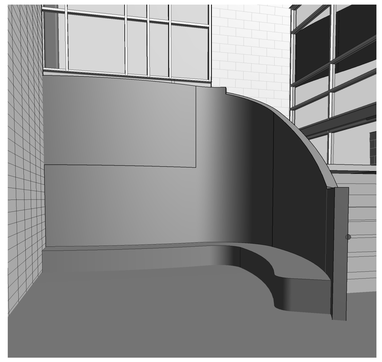
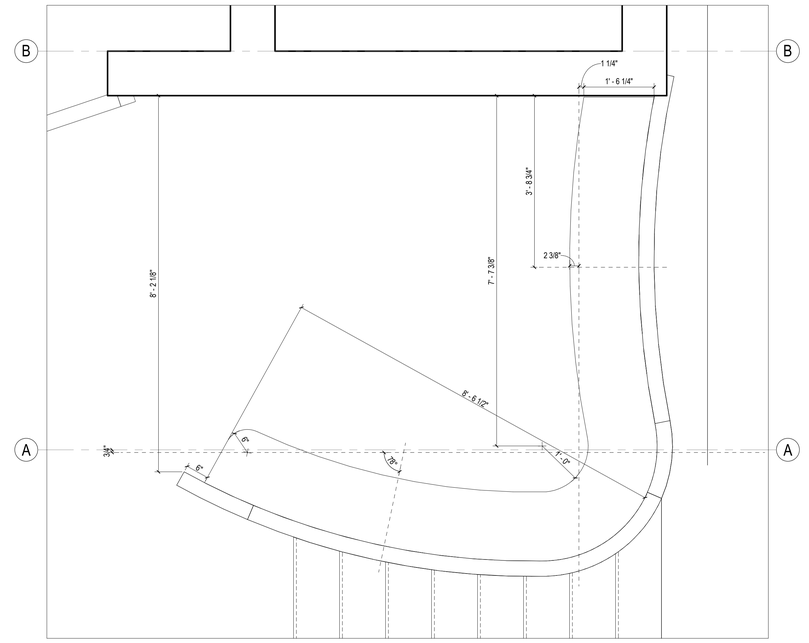
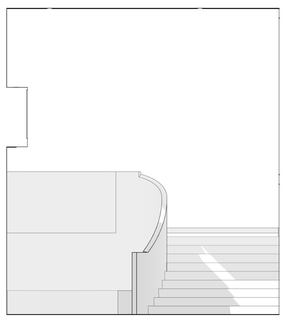


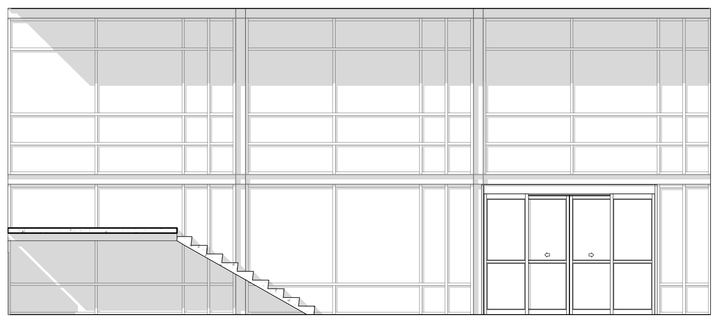
1 ENLARGED ENTRY - BENCH - 3D VIEW FOR REFERENCE ONLY



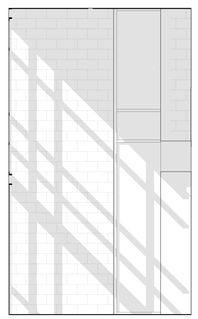

2 ENLARGED ENTRY - BENCH - DIMENSIONED PLAN
3/4" = 1'-0"



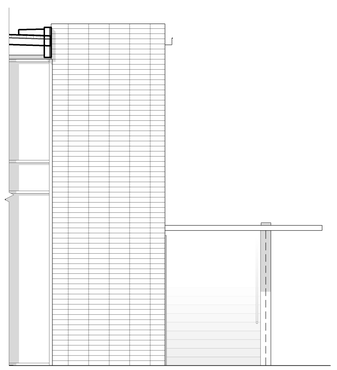
3 LOWER LEVEL - ENTRY LOBBY 100 ADDITION - E
1/4" = 1'-0"



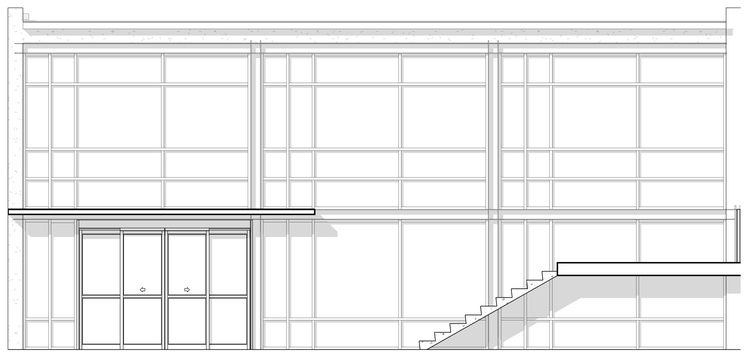
4 LOWER LEVEL - ENTRY LOBBY 100 ADDITION - S
1/4" = 1'-0"



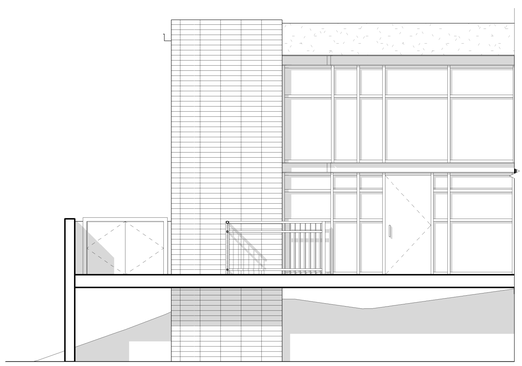
5 LOWER LEVEL - ENTRY LOBBY 100 ADDITION - W
1/4" = 1'-0"



6 EXTERIOR - ENTRY LOBBY 100 ADDITION - E
1/4" = 1'-0"



7 EXTERIOR - ENTRY LOBBY 100 ADDITION - N
1/4" = 1'-0"



8 EXTERIOR - ENTRY LOBBY 100 ADDITION - W
1/4" = 1'-0"

## ENLARGED PLAN SHEET NOTES

## ENLARGED PLAN ELEVATION KEYNOTES

## KEY PLAN

## ENLARGED PLAN LEGEND


ANDERSON BRULÉ ARCHITECTS

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PROJECT TITLE:

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| PROJECT NO. | 2111010 |
| DATE: | 01-08-2024 |

SHEET TITLE:

NOT IN USE - ENLARGED ENTRY - PLANS & INTERIOR ELEVATIONS

SCALE: As indicated


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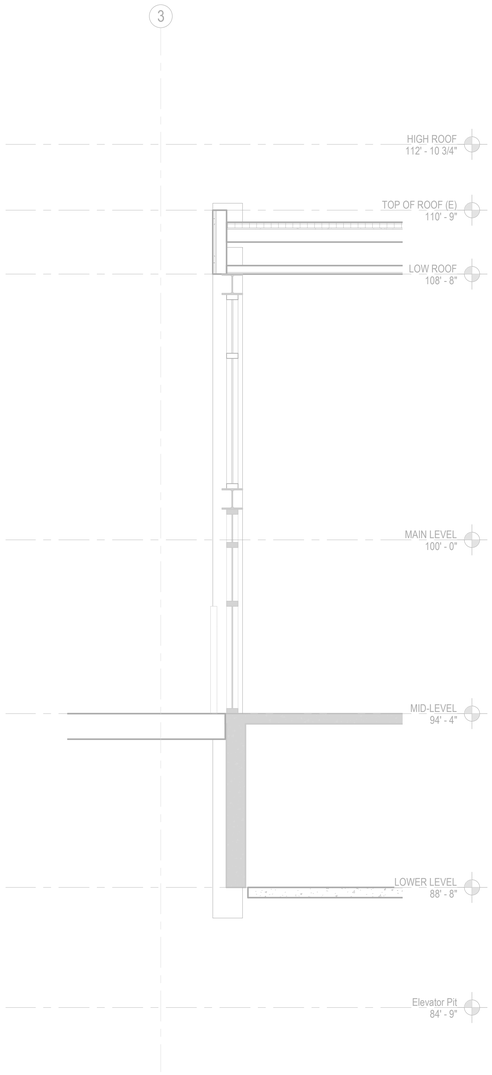
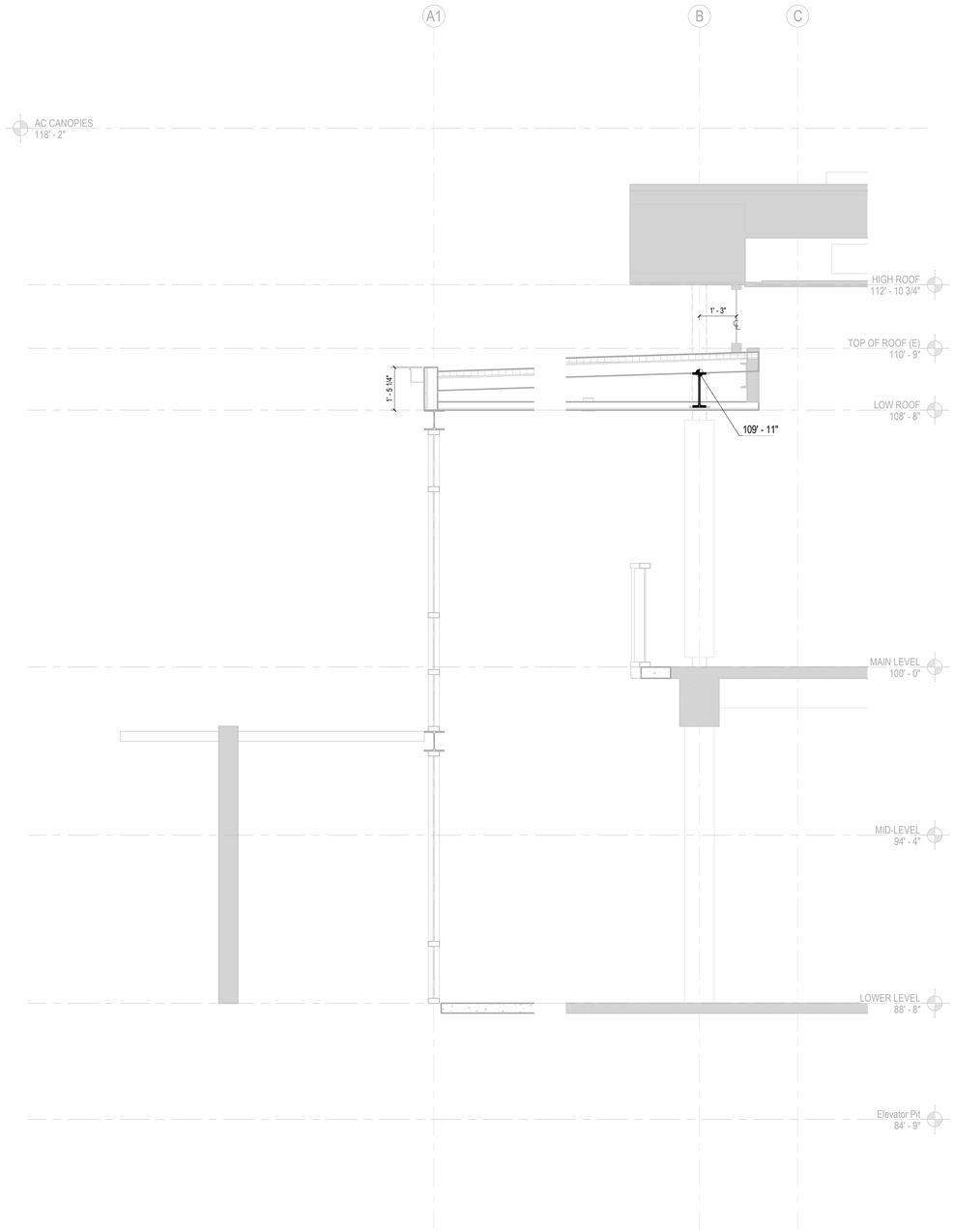



1 ENLARGED ENTRY - WALL SECTION -
1/2" = 1'-0"




2 ENLARGED ENTRY - SECTION N-S
1/2" = 1'-0"

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SHEET TITLE:

## NOT IN USE - ENLARGED ENTRY - WALL SECTIONS

SCALE: 1/2" = 1'-0"

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AD 2.3

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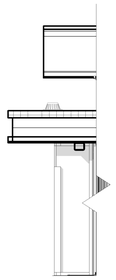
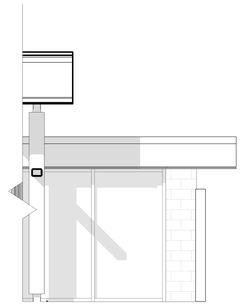


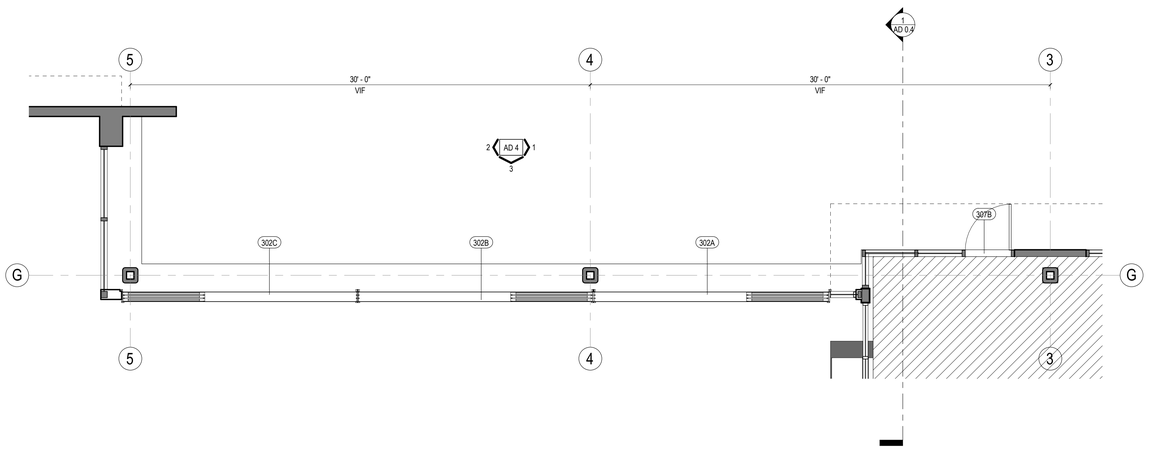
1 EXTERIOR - NORTH PATIO SLIDING DOORS - E
1/4" = 1'-0"



2 EXTERIOR - NORTH PATIO SLIDING DOORS - W
1/4" = 1'-0"




3 EXTERIOR - NORTH PATIO SLIDING DOORS - S
1/4" = 1'-0"

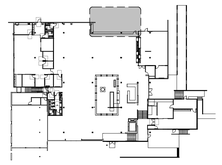



4 NORTH PATIO + SLIDING DOORS - FLOOR PLAN - MAIN LEVEL
1/4" = 1'-0"

## ENLARGED PLAN SHEET NOTES

## ENLARGED PLAN ELEVATION KEYNOTES

## KEY PLAN



MAIN LEVEL - ADD ALT 4

## ENLARGED PLAN LEGEND

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PROJECT TITLE:

# ALTADENA MAIN LIBRARY

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| PROJECT NO. | 2111010 |
| DATE: | 01-08-2024 |

SHEET TITLE:

**NORTH PATIO + SLIDING DOORS - FLOOR PLAN + ELEVATIONS**

SCALE: As indicated

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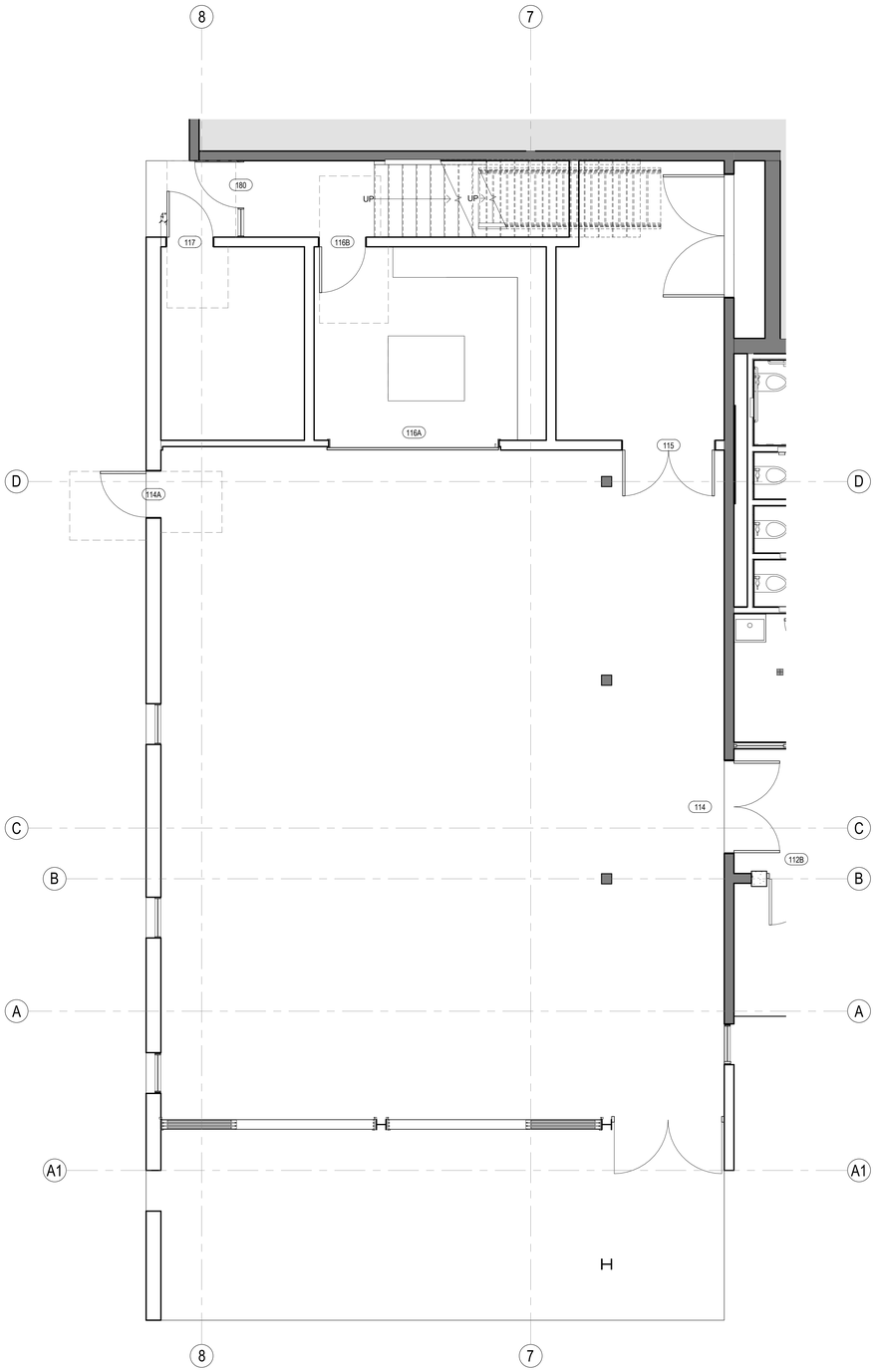
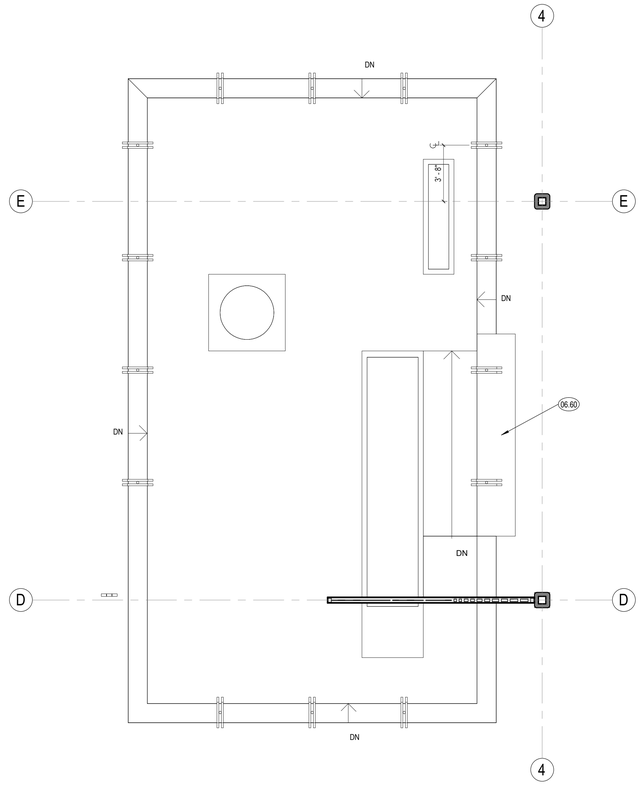
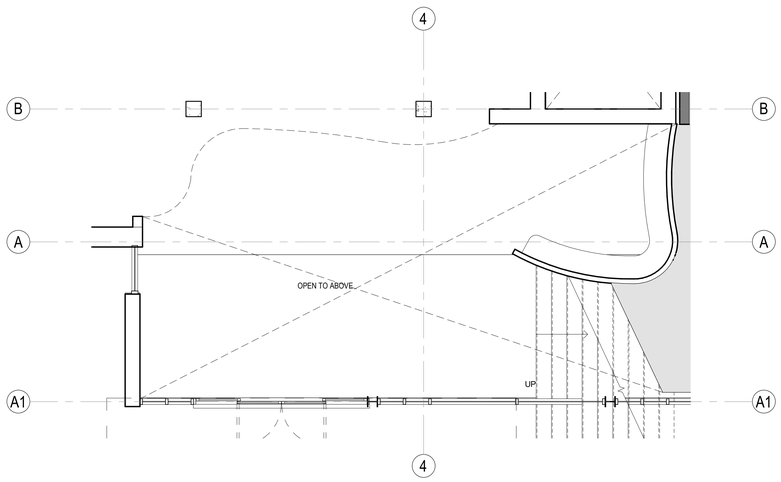



20 TERRAZO IN LIEU OF POLISHED CONCRETE AT COMMUNITY ROOM ADDITION - FLOOR PLAN - LOWER LEVEL
1/4" = 1'-0"




10 TERRAZO IN LIEU OF POLISHED CONCRETE AT LIVING ROOM - FLOOR PLAN - LOWER LEVEL
1/4" = 1'-0"




12 TERRAZO IN LIEU OF POLISHED CONCRETE AT ENTRY LOBBY - FLOOR PLAN - LOWER LEVEL
1/4" = 1'-0"

## ENLARGED PLAN SHEET NOTES

## ENLARGED PLAN ELEVATION KEYNOTES

## ENLARGED PLAN LEGEND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SHEET TITLE:

**NOT IN USE - TERRAZO IN LIEU OF POLISHED CONCRETE**

SCALE: 1/4" = 1'-0"


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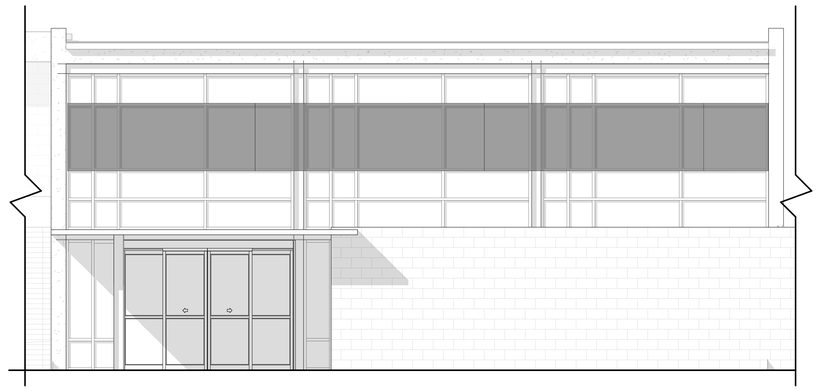
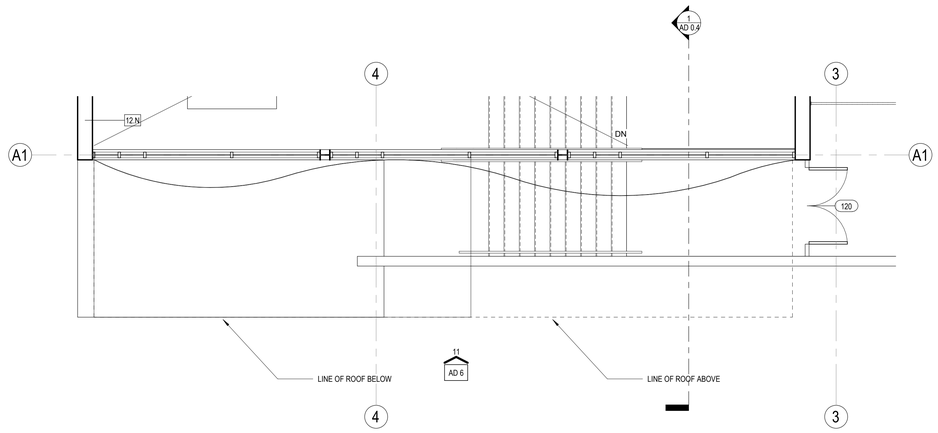


11 EXTERIOR - BRISE SOLEIL AT ENTRY - N
1/4" = 1'-0"

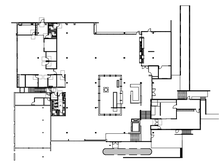



12 BRISE SOLIEL AT ENTRY - FLOOR PLAN
1/4" = 1'-0"

## ENLARGED PLAN SHEET NOTES

## ENLARGED PLAN ELEVATION KEYNOTES

## KEY PLAN



KEY PLAN - MAIN LEVEL - ADD ALT 6

## ENLARGED PLAN LEGEND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SHEET TITLE:

**NOT IN USE - BRISE SOLEIL - FLOOR PLAN + ELEVATION**

SCALE: As indicated


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AD 6

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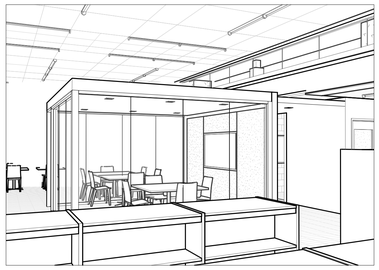
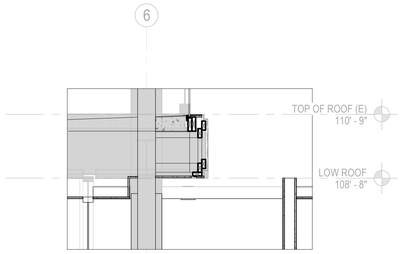
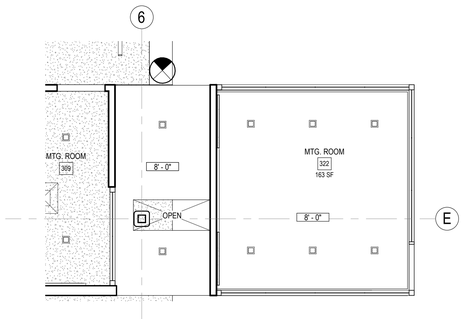


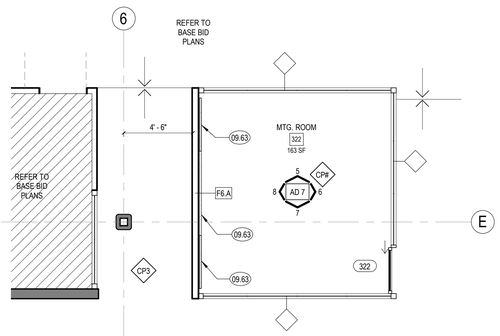
1 MEETING ROOM ADDITION - MAIN LEVEL - 3D VIEW FOR REFERENCE ONLY



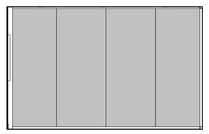

2 CEILING GAP BETWEEN MEETING ROOMS
1/2" = 1'-0"




3 MEETING ROOM ADDITION - REFLECTED CEILING PLAN - MAIN LEVEL
1/4" = 1'-0"



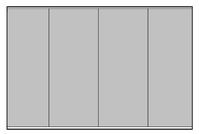

4 MEETING ROOM ADDITION - FLOOR PLAN - MAIN LEVEL
1/4" = 1'-0"



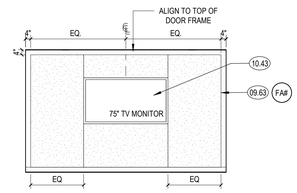
5 MAIN LEVEL - MTG. ROOM 322 - N
1/4" = 1'-0"



6 MAIN LEVEL - MTG. ROOM 322 - E
1/4" = 1'-0"



7 MAIN LEVEL - MTG. ROOM 322 - S
1/4" = 1'-0"



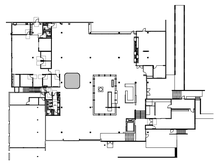

8 MAIN LEVEL - MTG. ROOM 322 - W
1/4" = 1'-0"

## ENLARGED PLAN SHEET NOTES

## ENLARGED PLAN ELEVATION KEYNOTES

09.63
10.43 WALL MOUNTED TV

## KEY PLAN



KEY PLAN - MAIN LEVEL - ADD ALT 7

## ENLARGED PLAN LEGEND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PROJECT TITLE:

# ALTADENA MAIN LIBRARY

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| PROJECT NO. | 2111010 |
| DATE: | 01-08-2024 |

SHEET TITLE:

**MEETING ROOM ADDITION - FLOOR PLAN, RCP, + ELEVATIONS**

SCALE: As indicated


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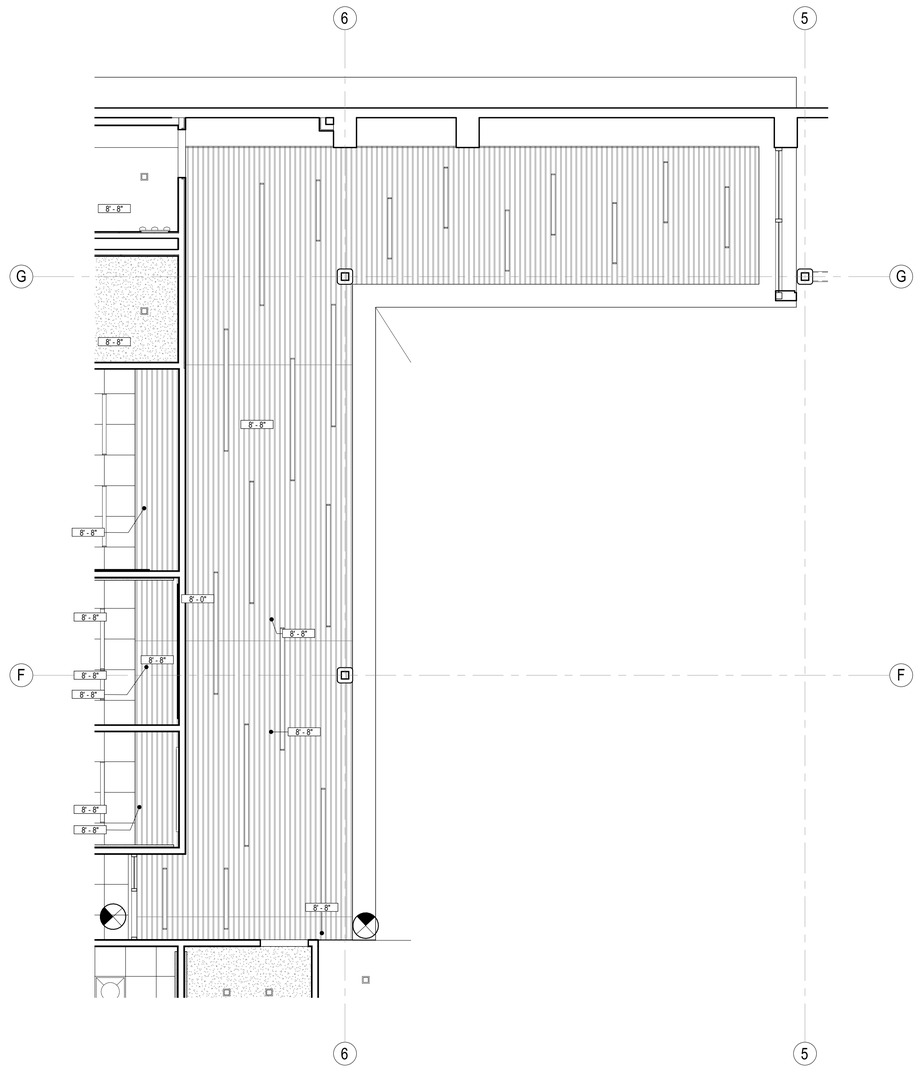
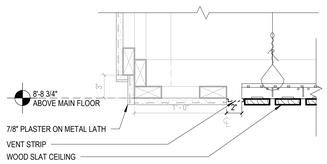


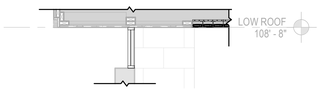

1 WOOD SLAT CEILING - REFLECTED CEILING PLAN - MAIN LEVEL
1/4" = 1'-0"



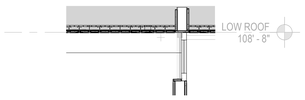

2 (E) PLASTER TO WOOD SLAT
1 1/2" = 1'-0"




3 ACT TO WOOD SLAT CEILING
1/2" = 1'-0"




4 WOOD SLAT TO (E) PLASTER AT WALL
1/2" = 1'-0"




5 WOOD SLAT CEILING AT CLERESTORY WINDOW
1/2" = 1'-0"

## ENLARGED PLAN SHEET NOTES

## ENLARGED PLAN ELEVATION KEYNOTES

## KEY PLAN

## ENLARGED RCP LEGEND

- **WD 2** - WOOD SLAT CEILING SYSTEM, REFER TO FINISH SCHEDULE FOR ADDITIONAL INFORMATION
  **SS-1** - 15/16" SUSPENSION GRID, BLACK PLENUM ABOVE TO BE PAINTED PT5, REFER TO FINISH SCHEDULE FOR ADDITIONAL INFORMATION
- **ACT 1** - 24" X 24" ACT CEILING, REFER TO FINISH SCHEDULE FOR ADDITIONAL INFORMATION
  **SS-2** - 15/16" SUSPENSION GRID, WHITE
- **ACT 1** - 24" X 48" ACT CEILING, SEE A240 FOR FINISH
  **SS-2** - 15/16" SUSPENSION GRID, WHITE
- **GB 2** - GYPSUM BOARD CLG, FRAMED SYSTEM, PAINTED.
- PAINTED EXISTING STRUCTURE
- PAINTED CEMENT PLASTER
- **MTL-3** DECORATIVE METAL PANEL
- 10'-0" CEILING HEIGHT A.F.F.
- WT-1 DUAL ROLLER SHADE, ELECTRIC SEE FOR FINISH SEE A240: MS1, MS2
- LIGHT FIXTURES, SED
- MECHANICAL DIFFUSERS, SMD
- WIRELESS ACCESS POINT, SEE TELECOMM DRAWINGS
- FIRE SPRINKLERS, SEE FIRE PROTECTION DRAWINGS
- FIRE ALARM DEVICE , SEE FIRE ALARM DRAWINGS
- ROOF ACCESS HATCH, SEE ROOF PLAN
- ACCESS PANEL. (CONTRACTOR TO VERIFY IN FIELD, BEST LOCATION, SIZE & NEED. COORDINATE W/ OTHER DISCIPLINES WHERE ACCES IS NEEDED.)
- EXIT SIGNAGE; SEE ELECTRICAL DRAWINGS
- S# WINDOW TAG
- SRE# STOREFRONT TO REPLACE EXISTING (E) WINDOW IN KIND

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PROJECT TITLE:

# ALTADENA MAIN LIBRARY

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| DATE: | 01-08-2024 |

SHEET TITLE:

## WOOD SLAT CEILING

SCALE: As indicated

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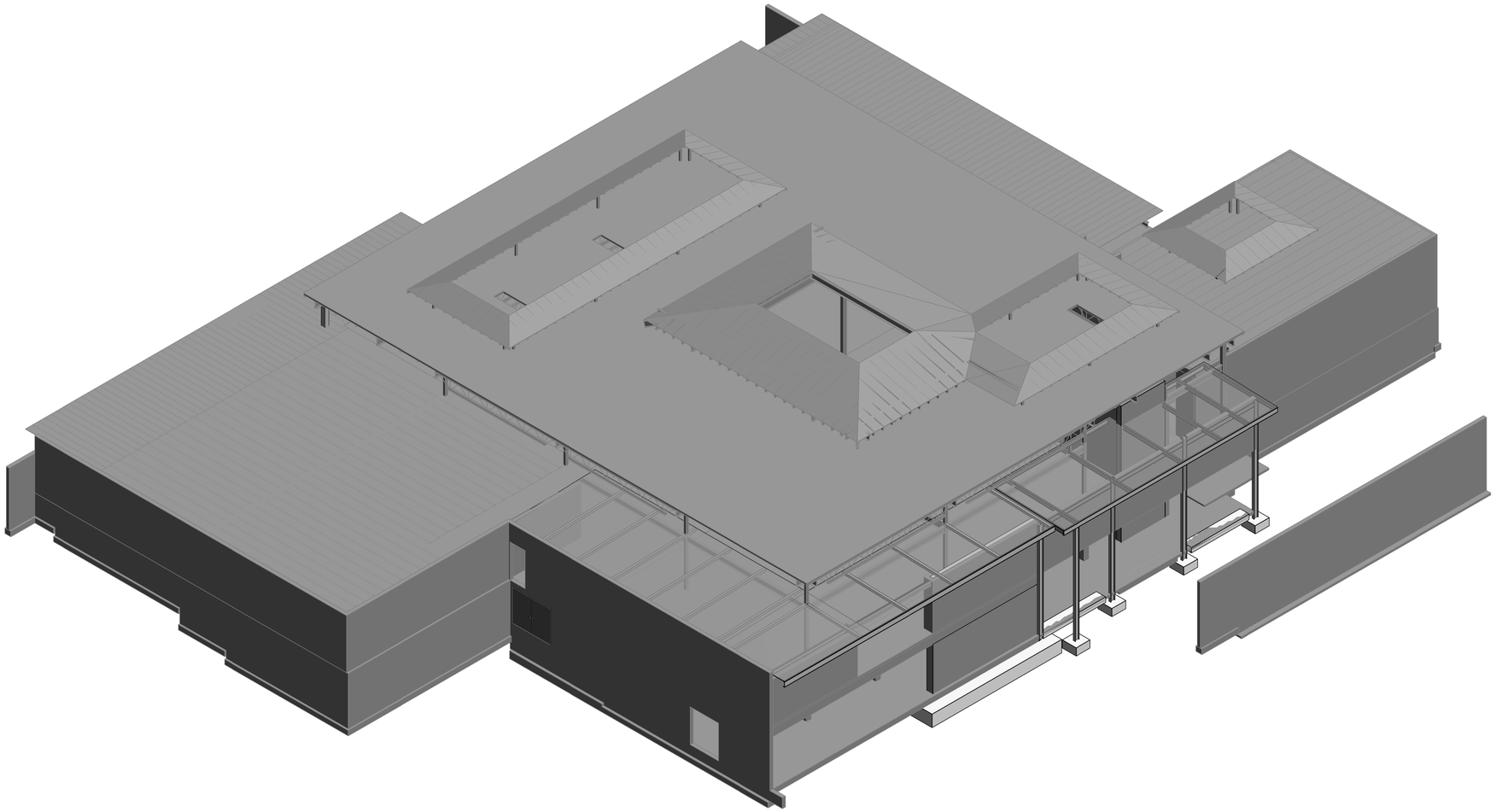

ISOMETRIC VIEW


ANDERSON BRULÉ
ARCHITECTS

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miyamotointernational.com


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PROJECT TITLE:

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SHEET TITLE:

**ISOMETRIC VIEW**

SCALE:


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## ABBREVIATIONS AND LEGEND

| | | | |
|---|---|---|---|
| AB | ANCHOR BOLT | INT | INTERIOR |
| ABV | ABOVE | IOR | INSPECTOR OF RECORD |
| ADDL | ADDITIONAL | JST | JOIST |
| ADJ | ADJACENT | JT | JOINT |
| AFF | ABOVE FINISH FLOOR | KLF | KIPS PER LINEAR FOOT |
| ALT | ALTERNATE | KSF | KIPS PER SQUARE FOOT |
| ARCH | ARCHITECT(URAL) | KSI | KIPS PER SQUARE INCH |
| BLDG | BUILDING | L | ANGLE |
| BLK | BLOCK | LD | DEVELOPMENT LENGTH |
| BLKG | BLOCKING | LDH | HOOK DEVELOPMENT LENGTH |
| BLW | BELOW | LFRS | LATERAL FORCE RESISTING SYSTEM |
| BM | BEAM | | |
| BN | BOUNDARY NAILING | LLH | LONG LEG HORIZONTAL |
| B.O. | BOTTOM OF | LLV | LONG LEG VERTICAL |
| BOTT | BOTTOM | LONG | LONGITUDINAL |
| BRB | BUCKLING-RESTRAINED BRACE | LP | LOW POINT |
| BRG | BEARING | LS | LAP SPLICE |
| BS | BOTH SIDES | LWC | LIGHTWEIGHT CONCRETE |
| BTWN | BETWEEN | MAX | MAXIMUM |
| C | CAMBER | MB | MACHINE BOLT |
| CG | CENTER OF GRAVITY | MECH | MECHANICAL |
| CIP | CAST IN PLACE | MFR | MANUFACTURER |
| CJ | CONTROL/CONSTRUCTION JOINT | MIN | MINIMUM |
| CJP | COMPLETE JOINT PENETRATION | MTL | METAL |
| CL | CENTERLINE | (N) | NEW |
| CLG | CEILING | NA | NEUTRAL AXIS |
| CLR | CLEAR | NS | NEAR SIDE OR NON-SHRINK |
| CMU | CONCRETE MASONRY UNIT | NTS | NOT TO SCALE |
| COL | COLUMN | NWC | NORMALWEIGHT CONCRETE |
| CONC | CONCRETE | OC | ON CENTER |
| CONN | CONNECTION | OD | OUTSIDE DIAMETER |
| CONT | CONTINUOUS | O.F. | OUTSIDE FACE |
| CSK | COUNTERSINK, COUNTERSUNK | OH | OPPOSITE HAND |
| CT(RD) | CENTER(ED) | OPNG | OPENING |
| DIA, DB | BAR DIAMETER OR BOLT DIAMETER | PDF | POWDER/POWER DRIVEN FASTENER |
| DBL | DOUBLE | | |
| DEMO | DEMOLITION | PJ | PANEL JOINT |
| DET | DETAIL | PJP | PARTIAL JOINT PENETRATION |
| DIA , Ø | DIAMETER | PL | PLATE |
| DIAG | DIAGONAL | PL(S) | PLACE(S) |
| DIM | DIMENSION | PLF | POUNDS PER LINEAR FOOT |
| DIR | DIRECTION | PLYWD | PLYWOOD |
| DO | DITTO | PREFAB | PREFABRICATED |
| DWG | DRAWING | PSF | POUNDS PER SQUARE FOOT |
| (E) | EXISTING | PSI | POUNDS PER SQUARE INCH |
| EA | EACH | PT | PRESSURE TREATED OR TENSION |
| EF | EACH FACE | | |
| EJ | EXPANSION JOINT | QTY | QUANTITY |
| EMBED | EMBEDMENT | RAD, R | RADIUS |
| ELEC | ELECTRICAL | REF | REFERENCE |
| ELEV | ELEVATION OR ELEVATOR | REINF | REINFORCING |
| EN | EDGE NAILING | REQD | REQUIRED |
| E.O | EDGE OF | (S) | "SIMPSON" STRONG TIE CO. OR "USP" W/ EQUIVALENT THIRD PARTY EVALUATION VALUES |
| EOD | EDGE OF DECK | | |
| EQ | EQUAL | | |
| EQUIP | EQUIPMENT | SB | SLAB BOLT |
| ES | EACH SIDE OR EDGE SCREW | SC | SAW CUT OR SLIP-CRITICAL |
| EW | EACH WAY | SCHED | SCHEDULE |
| EXP | EXPANSION | SEOR | STRUCTURAL ENGINEER OF RECORD |
| EXT | EXTERIOR | | |
| FIN | FINISH | SHTG | SHEATHING |
| FLG | FLANGE | SIM | SIMILAR |
| FLR | FLOOR | SMS | SHEET METAL SCREW |
| FN | FIELD NAILING | SN | SILL NAIL |
| FND | FOUNDATION | SOG | SLAB ON GRADE |
| F.O | FACE OF | SQ | SQUARE |
| FS | FAR SIDE OR FIELD SCREW | SS | STAINLESS STEEL |
| FRMG | FRAMING | STD | STANDARD |
| FRP | FIBER REINFORCED POLYMER | STGRD | STAGGERED |
| FT | FOOT OR FEET | STIFF | STIFFENER |
| FTG | FOOTING | STL | STEEL |
| Fy | YIELD STRESS | STRUCT | STRUCTURAL |
| GA | GAGE | T&B | TOP & BOTTOM |
| GALV | GALVANIZED | T&G | TONGUE AND GROOVE |
| GB | GRADE BEAM | THK | THICK |
| GC | GENERAL CONTRACTOR | THRD | THREADED |
| GLB | GLUED-LAMINATED BEAM | T.O. | TOP OF |
| HAB | HEADED ANCHOR BOLT | TRANS | TRANSVERSE |
| HD | HOLDOWN | TYP | TYPICAL |
| HDG | HOT-DIPPED GALVANIZED | UNO | UNLESS NOTED OTHERWISE |
| HDR | HEADER | VERT | VERTICAL |
| HGR | HANGER | VIF | VERIFY IN FIELD |
| HK | HOOK | W/ | WITH |
| HORIZ | HORIZONTAL | W/O | WITHOUT |
| HP | HIGH POINT | WF, W | WIDE FLANGE |
| HS | HIGH-STRENGTH | WHS | WELDED HEADED STUD |
| HSB | HIGH-STRENGTH BOLT | WLD | WELDED |
| HSS | HOLLOW STRUCTURAL SECTION | WO | WHERE OCCURS |
| HT | HEIGHT | WP | WORK POINT |
| ID | INSIDE DIAMETER | WT | WEIGHT |
| I.F. | INSIDE FACE | WWF | WELDED WIRE FABRIC |
| IN | INCH | | |

REFERENCE ELEVATION OR WORK POINT

LFRS (LFRS) — INDICATES THAT A DETAIL OR PORTION OF FRAMING IS A PART OF THE LATERAL FORCE RESISTING SYSTEM AND IS SUBJECT TO ADDITIONAL REQUIREMENTS OUTLINED IN THE GENERAL NOTES AND SPECIFICATIONS

TYPICAL HATCH PATTERNS USED (UNLESS NOTED OTHERWISE):

CONCRETE · STEEL · SOIL/EARTH
MASONRY · GROUT/SAND · PLYWOOD/SHEATHING

EXISTING ELEMENTS ARE SHOWN AS HALFTONE, NEW ELEMENTS ARE SHOWN AS FULL TONE UNO; EXAMPLE:

INDICATES A NEW ELEMENT — INDICATES AN EXISTING ELEMENT

SAWN LUMBER:

CONTINUOUS · BLOCKING · END OF MEMBER

## REFERENCE OF SECTIONS, DETAILS & SYMBOLS

DETAIL REFERENCE SHOWN THUS *:
2 / S5.01 **
DETAIL NOTED IS SHOWN ON SHEET S5.01, DETAIL 2

BUILDING SECTION INDICATION SHOWN THUS:
2 / S5.01 **
CUT IS SHOWN ON SHEET S5.01, DETAIL 2

ELEVATION INDICATION SHOWN THUS:
2 / S5.01 **
ELEVATION IS SHOWN ON SHEET S5.01, DETAIL 2

* (ADDITIONAL INDICATORS MAY BE USED TO SHOW LOCATION OF DETAIL CUTS)
** (SHEET NUMBER MAY BE REPLACED BY A HYPHEN (-) WHEN THE REFERENCED DETAIL APPEARS ON THE SAME SHEET AS THE CALL-OUT)

DETAIL TITLE SHOWN THUS:

2 DETAIL TITLE
SCALE

INDICATES THE TITLE, SCALE, AND DETAIL NUMBER ON SHEET

## NAILING SCHEDULE

(UNLESS OTHERWISE NOTED ON PLANS)

COMMON NAILS SHALL BE USED FOR NAILING AT TYPICAL CONNECTIONS NOTED BELOW (UNO).

| CONNECTION, NAIL TYPE | NAILING |
|---|---|
| JOISTS TO SILL OR GIRDER, TOENAIL | (3) 8d |
| JOISTS TO RIM JOIST, FACE NAIL | (3) 16d |
| BRIDGING TO JOIST, TOENAIL EACH END | (2) 8d |
| BLOCKING BETWEEN JOISTS/RAFTERS TO TOP PLATE, TOENAIL | (3) 8d |
| 1" x 6" OR NARROWER SUBFLOOR TO EACH JOIST, FACE NAIL | (2) 8d |
| WIDER THAN 1" x 6" SUBFLOOR TO EACH JOIST, BLIND AND FACE NAIL | (3) 8d |
| 2" SUBFLOOR TO JOIST OR GIRDER, BLIND AND FACE NAIL | (2) 16d |
| SILL PLATE TO JOIST OR BLOCKING, FACE NAIL | 16d @ 16"OC |
| TOP PLATE TO STUD, END NAIL | (2) 16d, TYP, UNO<br>(4) 16d @ 2x10 STUDS |
| STUD TO SILL PLATE | (4) 8d TOENAIL OR (2) 16d END NAIL, TYP. UNO<br>(7) 8d TOENAIL OR (4) 16d END NAIL @ 2x10 STUDS... |
| DOUBLE STUDS, FACE NAIL | 16d @ 24"OC |
| DOUBLE TOP PLATES, FACE NAIL | 16d @ 16"OC |
| TOP PLATES, LAPS, FACE NAIL | (8) 16d, UNO<br>(18) 16d @ SHEARWALL LOCATIONS, UNO |
| TOP PLATES AT INTERSECTIONS, FACE NAIL | (2) 16d |
| CONTINUOUS HEADER, TWO PIECES | 16d @ 16"OC ALONG EA EDGE |
| CEILING JOISTS TO PLATE, TOENAIL | (3) 8d |
| CONTINUOUS HEADER TO STUD, TOENAIL | (4) 8d |
| CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL | (3) 16d |
| CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL | (3) 16d |
| RAFTER TO PLATE, TOENAIL | (3) 8d |
| RIM JOIST TO TOP PLATE, TOENAIL | 8d @ 6"OC |
| JACK RAFTER TO HIP, FACE NAIL | (2) 16d |
| 1" BRACE TO EACH STUD & PLATE, FACE NAIL | (2) 8d |
| ROOF RAFTER TO 2x RIDGE BEAM, FACE NAIL | (2) 16d |
| 1"x8" SHEATHING OR LESS TO EACH BEARING, FACE NAIL | (3) 8d |
| WIDER THAN 1"x8" SHEATHING TO EACH BEARING, FACE NAIL | (3) 8d |
| 2" PLANKS | 16d @ EA BEARING |
| BUILT-UP CORNER STUDS | 16d @ 24"OC |
| BUILT-UP GIRDERS AND BEAMS | 20d @ 32"OC @ TOP & BOTT & STGRD (2) 20d @ ENDS & @ EA SPLICE<br>(2) 16 @ EA BEARING |

| NAIL SCHEDULE (COMMON NAILS) | | |
|---|---|---|
| SIZE | DIAMETER (IN) | LENGTH (IN) |
| 8d | 0.131 | 2 1/2 |
| 10d | 0.148 | 3 |
| 12d | 0.148 | 3 1/4 |
| 16d | 0.162 | 3 1/2 |
| 20d | 0.192 | 4 |

## STRUCTURAL OBSERVATIONS

1. VISUAL OBSERVATIONS WILL BE PERFORMED AT THE DISCRETION OF THE OWNER, ARCHITECT, SEOR, AND AS REQUIRED BY THE BUILDING OFFICIAL IN ACCORDANCE WITH THE BUILDING CODE. VISUAL OBSERVATIONS SHALL NOT BE CONSIDERED AS A SUBSTITUTE FOR THE SPECIAL INSPECTION REQUIREMENTS.
2. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO NOTIFY THE SEOR AS TO WHEN EACH MAJOR PHASE OF CONSTRUCTION IS READY FOR OBSERVATION A MINIMUM OF FIVE BUSINESS DAYS IN ADVANCE.
3. THE FOLLOWING MAJOR PHASES OF CONSTRUCTION REQUIRE A SITE VISIT AND STRUCTURAL OBSERVATION REPORT FROM THE SEOR:
   a. FOUNDATION REBAR AND ANCHORS - PRIOR TO FIRST POUR OF CONCRETE
   b. STRUCTURAL FRAMING - AFTER ERECTION AND PRIOR TO CLOSING IN
   c. RAISED FLOOR SLABS AND REBAR - PRIOR TO FIRST POUR OF CONCRETE
   d. ROOF NAILING - PRIOR TO INSTALLATION OF ROOFING AND CRICKETS
   e. COMPLETION OF THE STRUCTURAL SYSTEM
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT NAILING, REINFORCEMENT, WELDS, CONNECTIONS, ETC. ARE VISIBLE FOR OBSERVATION WHEN THE SEOR IS ONSITE AND FOR ANY SCHEDULING DELAYS DUE TO NONCOMPLIANT ITEMS FOUND DURING THE OBSERVATION.
5. AT THE CONCLUSION OF THE WORK INCLUDED IN THE PERMIT, THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE BUILDING OFFICIAL A WRITTEN STATEMENT THAT THE SITE VISITS HAVE BEEN MADE AND IDENTIFY ANY REPORTED DEFICIENCIES THAT, TO THE BEST OF THE STRUCTURAL OBSERVERS' KNOWLEDGE, HAVE NOT BEEN RESOLVED.

## ROUGH CARPENTRY / WOOD

1. ALL GRADES SPECIFIED ARE MINIMUM GRADES REQUIRED. DOUGLAS FIR-LARCH SHALL BE GRADED BY A GRADING AGENCY CERTIFIED BY THE ALSC TO THE WCLIB OR WWPA GRADING RULES, CONFORMING TO DOC PS 20. REDWOOD SHALL BE GRADED BY THE CALIFORNIA REDWOOD ASSOCIATION, REDWOOD INSPECTION SERVICE.
2. WOOD SPECIES SPECIFICATIONS ("DF" INDICATES DOUGLAS FIR-LARCH CONFORMING TO DOC PS20):

| | |
|---|---|
| NON-LOAD-BEARING STUDS, TOP PLATES, BLOCKING, FURRING AND BRACING | DF #2 |
| JOISTS, RAFTERS, PURLINS, BEAMS & POSTS | DF #1 (UNO) |
| LOAD-BEARING STUDS (UNO) | |
| HEIGHT NOT EXCEEDING 15'-0" | DF #2 |
| HEIGHT EXCEEDING 15'-0" | DF #1 |

3. MOISTURE CONTENT OF SAWN LUMBER SHALL NOT EXCEED 19% WHEN FRAMING STARTS OR SHEATHING IS APPLIED. ANY NONCOMPLIANT WORK SHALL BE REJECTED AND REFRAMED WITH ACCEPTABLE LUMBER.
4. ARCHITECTURALLY EXPOSED TIMBERS 4" NOMINAL IN THE LEAST DIMENSION SHALL NOT CONTAIN BOXED HEART.
5. PROVIDE FIRE-RETARDANT-TREATED (FRT) LUMBER AND WOOD STRUCTURAL PANELS PER CBC SECTION 2303.2 WHERE INDICATED BY ARCHITECT.
6. WOOD MEMBERS SHALL BE PRESERVATIVE-TREATED (PT) OR NATURALLY DURABLE (WITH APPROVAL OF SEOR) WHERE EXPOSED TO WEATHER AND IN ACCORDANCE WITH CBC SECTION 2304.12. SILL PLATES SHALL BE PRESERVATIVE-TREATED DOUGLAS FIR #2. END CUTS AND HOLES IN PT SILL PLATES SHALL BE TREATED.
7. FASTENERS, INCLUDING NUTS AND WASHERS, FOR PRESERVATIVE-TREATED WOOD, WOOD EXPOSED TO WEATHER, AND FIRE- RETARDANT-TREATED WOOD SHALL BE OF HOT-DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER. THE COATING WEIGHTS FOR ZINC-COATED FASTENERS SHALL BE IN ACCORDANCE WITH ASTM A153. EXCEPTIONS: FASTENERS OTHER THAN NAILS, TIMBER RIVETS, WOOD SCREWS AND LAG SCREWS SHALL BE PERMITTED TO BE OF MECHANICALLY DEPOSITED ZINC-COATED STEEL WITH COATING WEIGHTS IN ACCORDANCE WITH ASTM B695, CLASS 55 MINIMUM, AND PLAIN CARBON STEEL FASTENERS, INCLUDING NUTS AND WASHERS, IN SBX/DOT AND ZINC-BORATE PRESERVATIVE-TREATED WOOD IN AN INTERIOR, DRY ENVIRONMENT SHALL BE PERMITTED.
8. UNLESS NOTED OTHERWISE, SILL FASTENERS FOR INTERIOR NON-STRUCTURAL WALLS MAY BE 0.15?" DIAMETER x 1 1/4" EMBED PDF's AT 16"OC.
9. SILL PLATES SHALL BE BOLTED TO CONCRETE WITH 5/8" DIAMETER ANCHOR BOLTS AT 48" OC MAX, UNO, WITH A BOLT BETWEEN 7 x BOLT DIAMETER (4 3/8" MIN) AND 12" FROM THE END OF EACH PIECE OF SILL (2 BOLTS MIN EACH PIECE). PIECE OF SILL SHALL BE CONSIDERED ENDED WHERE PLATE IS CUT OVER ONE-THIRD OF CROSS-SECTION.
10. ANCHOR BOLTS FOR BEARING WALLS SHALL HAVE 7" EMBEDMENT (UNO) MEASURED FROM TOP OF SLAB.
11. ALL BOLTS IN WOOD SHALL BE ASTM A307 STANDARD BOLTS, UNO. BOLTS AND SCREWS SHALL BE TIGHTENED AT TIME OF ERECTION AND RETIGHTENED BEFORE CLOSING IN OR AT THE COMPLETION OF THE JOB. HOLES IN WOOD AND STEEL MEMBERS FOR BOLTS SHALL BE THE NOMINAL BOLT DIAMETER PLUS 1/16".
12. ALL NAIL SPACING, EDGE DISTANCES, AND END DISTANCES SHALL BE SUCH AS TO AVOID SPLITTING OF THE WOOD. HOLES FOR NAILS, WHERE NECESSARY TO PREVENT SPLITTING, SHALL BE BORED OF A DIAMETER SMALLER THAN THAT OF THE NAILS.
13. HOLES IN WOOD FOR LAG SCREWS SHALL BE FIRST BORED TO THE SAME DIAMETER AND DEPTH AS THE SHANK. HOLES FOR THE THREADED PORTION SHALL BE BORED WITH A BIT DIAMETER EQUAL TO 40% TO 70% OF THE SHANK DIAMETER IN DOUGLAS FIR. FOR OTHER WOOD SPECIES, REFER TO THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS).
14. LAG SCREWS AND SCREWS SHALL BE SCREWED AND NOT DRIVEN INTO PLACE.
15. STANDARD CUT STEEL WASHERS SHALL BE PROVIDED UNDER HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS WHICH BEAR ON WOOD. SEE SHEAR WALL SCHEDULE FOR WASHER REQUIREMENTS AT SHEAR WALL SILL BOLTS WHERE OCCUR.
16. STUD BEARING WALLS AND PARTITIONS SHALL HAVE DOUBLE TOP PLATES LAPPED AT INTERSECTIONS. JOINTS IN UPPER AND LOWER MEMBERS OF DOUBLE TOP PLATES SHALL BE STAGGERED AT LEAST 4'-0".
17. NOTCHING AND HOLES SHALL NOT BE ALLOWED EXCEPT AS DETAILED ON THESE PLANS OR AS APPROVED BY THE SEOR.
18. INSTALL WINDOWS AND DOORS IN STUD WALLS AFTER DEAD LOADS ARE APPLIED, AND PROVIDE A 1/2" SHIM SPACE AT THE HEAD CONDITION.
19. STRUCTURAL FLOOR, ROOF AND WALL SHEATHING SHALL BE APA-RATED AND SHALL CONFORM TO DOC PS1 OR PS2.
20. EXTERIOR STUD WALLS SHALL BE COMPLETELY SHEATHED WITH 15/32" SHEATHING, EXPOSURE-1 (32/16), TYPICAL, UNO.
21. INTERIOR BEARING WALLS SHALL BE SHEATHED WITH 1/2" GYP BOARD EACH SIDE, FULL HEIGHT, UNO.
22. ALL STRUCTURAL WALL SHEATHING SHALL BE SPLICED ON 2" NOMINAL BLOCKING AT HORIZONTAL JOINTS, UNO.
23. AT FLOOR FRAMING, PROVIDE BRIDGING OR FULL-HEIGHT BLOCKING AS REQUIRED BY THE BUILDING CODE.
24. STRUCTURAL FLOOR AND ROOF SHEATHING SHALL BE APA-RATED EXPOSURE-1 1/8" GAP SHALL BE PROVIDED BETWEEN ADJACENT SHEATHING PANELS. PANELS WITH GRADE STAMP INDICATION "SIZED FOR SPACING" MAY BE USED TO FACILITATE THIS REQUIREMENT. SHEATHING AT EXTERIOR DECKS SHALL BE EXTERIOR RATED PLYWOOD.
25. AT FLOOR APPLICATIONS, ATTACH FLOOR SHEATHING TO FRAMING USING RING-SHANK NAILS AND GLUE.

## POST-INSTALLED ANCHORS AND DOWELS

UNLESS OTHERWISE NOTED ON THE DRAWINGS, THE FOLLOWING APPLIES TO ALL POST-INSTALLED ANCHORS INTO HARDENED CONCRETE OR MASONRY, WHICH INCLUDES TYPES SUCH AS EXPANSION, WEDGE, SLEEVE, ADHESIVE/EPOXY, SHOT-PIN, SCREW AND UNDERCUT.

1. INSTALL PER THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII) EXCEPT AS OTHERWISE STATED IN THE SPECIFIED PRODUCT REPORTS. USE INSTALLATION PROCEDURES FOR CRACKED CONCRETE CONDITIONS. DO NOT USE CORE DRILL BITS FOR ANCHOR HOLES WITHOUT PRIOR SEOR APPROVAL. COPIES OF INSTALLATION INSTRUCTIONS SHALL BE MAINTAINED ON SITE.
2. CLEAN OUT ANCHOR HOLES AND SET ANCHORS PER THE PRODUCT'S THIRD PARTY EVALUATION REPORT FOR THE APPROPRIATE CONDITIONS. INSTALL UNDER SUPERVISION OF THE SPECIAL INSPECTOR WHERE REQUIRED.
3. PROVIDE CARBON STEEL ANCHORS AT DRY INTERIOR LOCATIONS AND STAINLESS STEEL TYPE 304 OR 316 AT EXTERIOR LOCATIONS AND DAMP INTERIOR LOCATIONS.
4. REINFORCING BARS TO RECEIVE CONCRETE COVER MAY BE UNCOATED.
5. ANCHORS SHALL BE CLEAN AND FREE OF DEBONDING SUBSTANCES.
6. EMBEDMENT REFERS TO THE FINAL INSTALLED EFFECTIVE DEPTH "hef" AS DEFINED IN THE PRODUCT REPORT. REQUIRED ANCHOR HOLE DEPTH FOR INSTALLATION MAY BE DEEPER.
7. EXISTING REINFORCING SHALL BE AVOIDED WHERE DRILLING FOR POST-INSTALLED ANCHORS OR CONCRETE DOWELS.
8. MAINTAIN A MINIMUM OF 2 INCHES FROM EXISTING CONDUIT AND POST-TENSIONING (WHERE OCCURS) PRIOR TO DRILLING, CORING, OR SHOOTING PINS INTO EXISTING CONCRETE OR MASONRY. USE NONDESTRUCTIVE TESTING TO LOCATE SUCH ITEMS.
9. WHERE THE FULL ANCHOR EMBEDMENT DEPTH, SPACING OR EDGE DISTANCE CANNOT BE ACHIEVED, NOTIFY THE SEOR AND IOR.
10. FILL ABANDONED HOLES WITH NON-SHRINK GROUT OR EPOXY. CLEAR DISTANCE BETWEEN NEW HOLES AND ABANDONED HOLES SHALL BE 2" OR TWO ANCHOR DIAMETERS, WHICHEVER IS GREATER, UNLESS OTHERWISE SPECIFIED BY SEOR. ANCHORS PENETRATING THROUGH WATERPROOFING OR VAPOR MEMBRANES SHALL BE SEALED OR FLASHED.
11. INSTALL IN DRY CONCRETE OR MASONRY HAVING A MINIMUM AGE OF 21 DAYS.
12. RE-USE OF SCREW ANCHORS AND SCREW ANCHOR HOLES IS NOT PERMITTED.
13. AN ACI-CRSI CERTIFIED ADHESIVE ANCHOR INSTALLER IS REQUIRED FOR THE INSTALLATION OF ADHESIVE ANCHORS IN HORIZONTAL AND OVERHEAD CONDITIONS.

## SHOTCRETE

1. SHOTCRETING SHALL CONFORM TO ALL REQUIREMENTS OF ACI 506R AND 506.2, EXCEPT AS MODIFIED BY THE FOLLOWING REQUIREMENTS (ALL OTHER APPLICABLE REQUIREMENTS OF THE CODE, INCLUDING ALL REQUIREMENTS FOR PNEUMATICALLY PLACED WET-MIXED MORTAR, AND MAXIMUM TIME IN MIXER, SHALL APPLY):
   a. APPLICATORS OF STRUCTURAL WET MIX SHOTCRETE SHALL HAVE A COPY OF ACI 506R. ON EACH WORK SITE AT THE TIME OF SHOTCRETING.
   b. THE WORD "SHALL" SHALL BE SUBSTITUTED WHEREVER THE WORD "SHOULD" OCCURS IN ACI 506R.
   c. THE CONCRETE MIX SHALL COMPLY WITH THE CODE AND SHALL NOT BE BATCHED VOLUMETRICALLY.
   d. A TEST CONSISTING OF AT LEAST TWO CYLINDERS AT 28 DAYS IS REQUIRED.
2. SHOTCRETE MIX DESIGN AND TESTING SHALL COMPLY WITH ACI 506.2 AND STRUCTURAL CONCRETE NOTES.
3. STRUCTURAL WET MIX SHOTCRETE SHALL NOT BE PLACED WHERE THE STREAM FROM THE NOZZLE CANNOT DIRECTLY IMPINGE ON THE SURFACE ON WHICH THE CONCRETE IS TO BE PLACED. WHERE THE CONDITION PRECLUDES THE POSSIBILITY OF OBTAINING CORES FROM THE STRUCTURE, THIS METHOD SHALL NOT BE USED.
4. SHOTCRETE CONTRACTOR SHALL SHOW A MINIMUM OF 5 YEARS EXPERIENCE ON SIMILAR SEISMIC BUILDING PROJECTS AND SHALL BE APPROVED BY THE SEOR. ONLY A QUALIFIED PERSON ON THE NOZZLE WITH A MINIMUM OF THREE YEARS STRUCTURAL WET MIX SHOTCRETE EXPERIENCE AND POSSESSING WRITTEN DOCUMENTATION OF THAT EXPERIENCE SHALL APPLY WET MIX SHOTCRETE. THE WET MIX SHOTCRETE SUPERVISOR AND THE PERSON AT THE NOZZLE SHALL PROVIDE A RESUME APPROVED BY THE AUTHORITY HAVING JURISDICTION PRIOR TO PLACING. THE SUBCONTRACTOR WHO WILL PLACE THE SHOTCRETE SHALL SUPPLY A WRITTEN RESUME OF HIS/HER EXPERIENCE IN THE PLACING OF STRUCTURAL SHOTCRETE (OTHER THAN SWIMMING POOLS) AND LOCATIONS OF PREVIOUS JOBS APPROVED BY THE AUTHORITY HAVING JURISDICTION.
5. THE MINIMUM SPACING OF THE REINFORCING STEEL SHALL BE SIX BAR DIAMETERS FOR WALLS WITH ONE CURTAIN OF STEEL. WHERE TWO CURTAINS OF STEEL ARE PROVIDED, THE CURTAIN NEAREST THE NOZZLE SHALL HAVE A MINIMUM SPACING OF 12 BAR DIAMETERS AND THE REMAINING CURTAIN SHALL HAVE A MINIMUM SPACING OF SIX BAR DIAMETERS. REINFORCING STEEL SHALL HAVE A MINIMUM SPACING OF THREE BAR DIAMETERS AT SPLICES. IN ALL CASES, THE MINIMUM CLEAR DISTANCE BETWEEN REINFORCING BARS (OTHER THAN MESH) SHALL BE 2 1/2". EXCEPTION: CONTACT SPLICES MAY BE USED FOR #5 BARS AND SMALLER.
6. CONTINUOUS INSPECTION BY A REGISTERED DEPUTY BUILDING INSPECTOR IS REQUIRED DURING PLACEMENT OF SHOTCRETE AND TAKING OF CORES.
7. PREPARE PRECONSTRUCTION TEST PANELS FOR EXAMINATION BY THE SPECIAL INSPECTOR PRIOR TO JOB SHOTCRETE PLACEMENT. PREPARATION AND TESTING SHALL COMPLY WITH ASTM C 1140. PRODUCE TEST PANELS (4'-0"x4'-0" MINIMUM) FOR EACH PROPOSED MIX DESIGN, SHOOTING ORIENTATION AND NOZZLEMAN. PRECONSTRUCTION TESTING SHALL BE IN ACCORDANCE WITH ACI 506.2 SECTION 1.6, AND VISUAL EXAMINATION OF THE CORES SHALL BE IN ACCORDANCE WITH SECTION 1.7. ONLY NOZZLEMEN WITH A TEST PANEL MEAN CORE GRADE OF 2.5 OR LESS SHALL BE ALLOWED TO PLACE SHOTCRETE. IF A PANEL IS REJECTED, A 2ND PANEL MAY BE SHOT; THE MEAN CORE GRADE OF THE 2ND TEST PANEL SHALL BE 2.5 OR LESS.
8. PRODUCE A CONSTRUCTION TEST PANEL FOR EACH MIX AND EACH WORK DAY OR EVERY 50 CUBIC YARDS, WHICHEVER IS LESS. OBTAIN TEST SPECIMENS FROM EITHER A JOB SITE TEST PANEL PER ASTM C 1140 OR CONCRETE DOES NOT EXCEED SIX FEET. A SUFFICIENT NUMBER OF CHUTES OR TRUNKS SHALL BE USED TO ENSURE THE CONCRETE IS KEPT LEVEL AT ALL TIMES.
9. WHEN SHOOTING UP TO THE UNDERSIDE OF EXISTING CONCRETE, THE LAST TWO INCHES SHALL BE DRYPACKED OR AN APPROVED METHOD OF DRY PNEUMATIC CONCRETE SHALL BE USED. EXCEPTION: PROVIDED THE DETAIL OF THE JOINT IS SLOPED SO THAT THE CLOSURE OF THE COLD JOINT MADE WITH STRUCTURAL WET MIX SHOTCRETE DOES NOT SAG AWAY FROM THE UPPER SURFACE AND PROVIDED BOTH SIDES OF THE COLD JOINT HAVE TAKEN THEIR INITIAL SET, THE JOINT CLOSURE MAY BE MADE WITH STRUCTURAL WET MIX SHOTCRETE.
10. REINFORCING STEEL SHALL BE SECURELY TIED IN PLACE IN A MANNER THAT PREVENTS ANY MOVEMENT DURING THE WET MIX SHOTCRETING.
11. THE HEIGHT OF A LAYER SHALL BE LIMITED TO NOT MORE THAN THREE FEET AND A SUCCEEDING LAYER SHALL NOT BE PLACED IN MORE THAN 30 MINUTES. NO SLOUGHING OR SAGGING SHALL BE PERMITTED. EXCEPTION: A SEOR MAY AUTHORIZE A SUCCEEDING LAYER TO BE PLACED IN MORE THAN 30 MINUTES. FOR SUCCEEDING LAYERS EXCEEDING 30 MINUTES, TAPER JOINT TO A THIN EDGE. CLEAN AND WET JOINT PRIOR TO APPLYING SUCCEEDING LAYER. NO SLOUGHING OR SAGGING SHALL BE PERMITTED.
12. THE MINIMUM SLUMP SHALL BE 1 1/2" AND THE MAXIMUM SHALL BE 2 1/2". SLUMP SHALL BE MEASURED AT THE POINT OF DISCHARGE FROM THE MIXER.
13. A CAPABLE NOZZLEPERSON'S HELPER WITH AN AIR BLOW PIPE SHALL BE PROVIDED TO ASSIST THE NOZZLEPERSON IN KEEPING ALL REBOUND BUILD-UP OUT OF THE WORK. ADDITIONAL WORKERS MAY BE REQUIRED TO TAKE REBOUND FROM THE WORK IF THE REBOUND CANNOT BE REMOVED BY THE AIR BLOW PIPE.
14. SHOTCRETE PLACEMENT OVER EARTH:
   a. RIGID BACKING: PRIOR TO SHOTCRETE APPLICATION, PLACE RIGID OR OTHER APPROVED BACKING AGAINST EARTH WHERE THERE IS ANY LIKEHOOD OF SOIL BEING DISLODGED IN SUFFICIENT QUANTITY TO DAMAGE SHOTCRETE. ALSO, PLACE BACKING WHERE VOIDS IN EMBANKMENT ARE TO BE BRIDGED.
   b. SLOUGHING EARTH: IF PREVIOUSLY PRESUMED SOLID EMBANKMENT SHOULD SLOUGH IN SUFFICIENT QUANTITY TO DAMAGE SHOTCRETE, DISCONTINUE SHOTCRETE PLACEMENT WORK IN THAT AREA UNTIL A RIGID BACKING IS INSTALLED AND CONTAMINATED SHOTCRETE IS REMOVED.
15. REMOVE LOOSE MATERIAL FROM SURFACE TO RECEIVE SHOTCRETE AND THOROUGHLY CLEAN AND WASH DOWN WITH WATER AND COMPRESSED AIR SURFACES. CONCRETE SURFACES SHALL BE THOROUGHLY WETTED PRIOR TO APPLICATION OF SHOTCRETE.
16. NO KEYWAYS OR EMBEDMENTS SHALL BE PLACED IN FRONT FACE THAT WILL INTERFERE WITH THE STREAM FROM THE NOZZLE.
17. THE CONTRACTOR SHALL PROVIDE A DESIGNATED LIAISON BETWEEN HIS/HER CREW, THE DEPUTY INSPECTOR AND THE BUILDING INSPECTOR.
18. THE SPECIAL INSPECTOR SHALL BE INTERVIEWED AND APPROVED BY THE AUTHORITY HAVING JURISDICTION PRIOR TO INSPECTING THE WORK AT THE JOBSITE, AND ONE DEPUTY SHALL BE ASSIGNED TO EACH NOZZLE.
19. REMOVE REBOUND AND DO NOT REUSE. CUT AWAY LAITANCE, SAGS, AND DEFECTS.

## SHORING AND EXCAVATIONS

010000-0009

1. THE CONTRACTOR SHALL PROVIDE FOR THE DESIGN, APPROVALS, PERMITS, INSTALLATION AND MONITORING OF ALL TEMPORARY SHORING AND BRACING AS REQUIRED TO SUPPORT EXISTING FRAMING WHERE SUPPORT ELEMENTS (BEAMS, COLUMNS, AND BEARING WALLS) ARE TO BE REMOVED, EXCAVATIONS, AND WHERE INDICATED IN THE DESIGN DOCUMENTS.
2. DESIGN LOADS FOR SHORING AND BRACING OF FRAMING SHALL BE INDEPENDENTLY DETERMINED, BUT NOT LESS THAN THE DEAD LOADS AS STATED IN STRUCTURAL DESIGN CRITERIA WHERE NOTED.
3. TEMPORARY SOIL CUTS SHALL NOT EXCEED SLOPES RECOMMENDED IN THE GEOTECHNICAL REPORT, NOR THOSE SHOWN ON THE SHORING DRAWINGS FOR CONSTRUCTION OF FOUNDATIONS.
4. EXCAVATIONS AND FOUNDATION-RELATED SHORING SHALL BE PERFORMED UNDER THE CONTINUOUS INSPECTION AND APPROVAL OF THE GEOTECHNICAL ENGINEER. THE DESIGN OF SUCH SHALL BE BASED UPON RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL REPORT. THE CONTRACTOR SHALL BE FAMILIAR WITH ALL DATA THEREIN AND SHALL KEEP A COPY OF THE REPORT AT THE JOB SITE AT ALL TIMES.
5. THE STRUCTURAL ENGINEER RESPONSIBLE FOR THE SHORING DESIGN (HEREAFTER CALLED THE SHORING ENGINEER) SHALL MAKE PERIODIC VISITS TO THE JOB SITE FOR THE PURPOSE OF OBSERVING THE INSTALLATION OF THE SHORING SYSTEM. OBSERVATIONS SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO, THE FOLLOWING:
   a. PRIOR TO THE START OF INSTALLATION, MEET WITH THE GEOTECHNICAL ENGINEER AND SHORING CONTRACTOR TO REV

## PRODUCT REPORTS

1. FOR ALL ITEMS IN THE CONSTRUCTION DOCUMENTS NOT NOTED WITH A SPECIFIC PRODUCT NAME OR MANUFACTURER, THE CONTRACTOR SHALL PROVIDE A PRODUCT SPECIFIED IN THE TABLE BELOW.
2. THE FOLLOWING PRODUCTS SHALL BE INSTALLED PER THE REQUIREMENTS OF THE REFERENCED PRODUCT REPORTS, UNO.
3. A PRODUCT MAY BE SUBSTITUTED FOR AN EQUIVALENT PRODUCT PER THE SCHEDULE BELOW IF APPROVED BY THE SEOR AND THE BUILDING OFFICIAL.
4. PRODUCTS SPECIFIED BY TYPE ONLY MAY USE ANY PRODUCT FROM THE SCHEDULE BELOW.

| TYPE | PRODUCT | ICC# | IAPMO# | LARR# |
|---|---|---|---|---|
| ADHESIVE ANCHOR TO CONCRETE | HILTI HIT-HY 200 | ESR-3187 | - | 25964 |
| | HILTI HIT-RE 500 V3 | ESR-3814 | - | 26028 |
| | HILTI HIT-RE 100 | ESR-3829 | - | 26027 |
| | HILTI HIT-HY-100 | ESR-3572 | - | - |
| | SIMPSON SET-3G | ESR-4057 | - | - |
| | SIMPSON SET-XP | ESR-2508 | - | - |
| | SIMPSON AT-XP | - | 0263 | - |
| | DEWALT PE1000+ | ESR-2583 | - | 25849 |
| | DEWALT AC200+ | ESR-4027 | - | - |
| | DEWALT PURE 110+ | ESR-3298 | - | 26035 |
| CONCRETE REINFORCING HEADED END * | HRC 555 HEADED BARS | ESR-2935 | 0177 | 25815 |
| | LENTON TERMINATOR D14 | - | 0188 | 25893 |
| | BAR SPLICE BUTTON HEAD | - | 0331 | 25996 |
| | DEXTRA BARTEC | ESR-2166 | - | 25884 |
| ADHESIVE ANCHOR TO GROUTED MASONRY | HILTI HIT-HY 270 | ESR-4143 | - | - |
| | HILTI HIT-HY-200 V3 | ESR-4878 | - | 26077 |
| | SIMPSON SET | - | - | 25279 |
| | SIMPSON SET-XP | - | 0265 | 25965 |
| | SIMPSON AT-XP | - | 0281 | 25966 |
| | DEWALT AC100+ GOLD | ESR-3200 | - | 26049 |
| MASONRY SCREW | DEWALT ULTRACON+ | ESR-3196 | - | - |
| WOOD FRAMING CLIPS | SIMPSON STRONG-TIE CLIPS | ESR-2523 | - | - |
| | USP STRUCTURAL CONNECTORS | ESR-2685 | - | - |
| WOOD SCREWS | SIMPSON STRONG DRIVE SCREWS (SDS) | ESR-2236 | - | 25711 |
| | SIMPSON SD TIMBER SCREWS (SDWS/SDWH) | - | 0192 | 25906 |
| | FASTENMASTER TIMBERLOK / HEADLOK / LEDGERLOK | ESR-1078 | - | - |

FOOTNOTES:
* ANY CONCRETE REINFORCING HEADED END COMPLYING WITH ASTM A970 MAY BE USED.

** ANY SHEET METAL SCREW COMPLYING WITH ASTM C1513, SELF-DRILLING AND TAPPING TYPE, WITH HEAD TYPE APPROPRIATE TO THE APPLICATION, MAY BE USED.

*** AT TREATED LUMBER, PROVIDE GALVANIZED FASTENERS IN ACCORDANCE WITH PRODUCT REPORTS.

## LEAN CONCRETE FILL

1. LEAN CONCRETE SHALL ONLY BE USED WHERE SPECIFIED IN THE DRAWINGS.
2. MIXING AND PLACING OPERATIONS SHALL CONFORM TO ACI 229R.
3. 28-DAY COMPRESSIVE STRENGTH:

| | |
|---|---|
| WHERE SUPPORTING FOOTINGS | 300 PSI |
| OTHER | 100 PSI |

4. TESTING SHALL BE PERFORMED IN ACCORDANCE WITH ASTM D4832.

## COLD-FORMED STEEL FRAMING

1. DESIGN, FABRICATION AND ERECTION OF COLD-FORMED STEEL FRAMING SHALL CONFORM TO THE SPECIFICATIONS AND STANDARD OF THE AMERICAN IRON AND STEEL INSTITUTE (AISI), AS CONTAINED IN THE "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS", INCLUDING ALL APPLICABLE AMENDMENTS.
2. ALL COLD-FORMED STEEL FRAMING SHALL BE ERECTED PLUMB AND TRUE TO LINE. TEMPORARY BRACING SHALL BE INSTALLED AND LEFT IN PLACE UNTIL OTHER MEANS IS PROVIDED TO ADEQUATELY BRACE THE STRUCTURE. ALL COLD-FORMED STEEL FRAMING SHALL BE BRACED AS REQUIRED BY SECTION D3 OF THE AISI SPECIFICATION.
3. COLD-FORMED STEEL GRADES:

| | |
|---|---|
| 18GA (43 MILS) OR THINNER | ASTM A1003 GRADE 33 (FY = 33 KSI) |
| 16GA (54 MILS) AND THICKER | ASTM A1003 GRADE 50 (FY = 50 KSI) |

4. THE THICKNESS OF TRACKS SHALL NOT BE LESS THAN THE THICKNESS OF THE MEMBER CONNECTING TO IT.
5. STUD ENDS SHALL ACHIEVE FULL BEARING AGAINST TRACK WEB, UNLESS NOTED OTHERWISE.
6. COLD-FORMED STEEL MEMBERS ARE TO BE ATTACHED WITH SHEET METAL SCREWS (SMS). PENETRATION OF SCREWS THROUGH JOINED MATERIAL SHALL NOT BE LESS THAN 3 EXPOSED THREADS. SCREWS ARE TO BE INSTALLED AND TIGHTENED IN ACCORDANCE WITH SCREW MANUFACTURERS RECOMMENDATIONS. SHEET METAL SCREWS SHALL COMPLY WITH ASTM C1513, SELF-DRILLING AND TAPPING TYPE, WITH PANCAKE FRAMER HEAD TYPE FOR #10 SMS AND HEX WASHER HEAD TYPE FOR #12 AND #14 (1/4"Ø) SMS UNLESS NOTED OTHERWISE.
7. COLD-FORMED MEMBERS SHALL BE UNPUNCHED WHERE USED FOR THE FOLLOWING: HEADERS AND SILLS OF OPENINGS WIDER THAN 3'-0", AND BUILT-UP SECTIONS. PUNCH-OUTS SHALL BE LOCATED IN THE CENTER OF THE WEB WITH A MINIMUM SPACING OF 24"OC, HAVE A MAXIMUM WIDTH OF HALF THE MEMBER DEPTH OR 2 1/2", WHICHEVER IS LESS, AND A MAXIMUM LENGTH OF 4 1/2". THE MINIMUM DISTANCE BETWEEN THE END OF THE MEMBER OR A SUPPORT AND THE NEAR EDGE OF THE PUNCH-OUT SHALL BE 10".
8. WELDING OF LIGHT GAGE STEEL SHALL BE IN ACCORDANCE WITH AMERICAN WELDING SOCIETY (AWS) D1.3.
9. COLD-FORMED MEMBER DESIGNATIONS ARE AS FOLLOWS:

600 S 250 - 54
- 600 = MATERIAL THICKNESS (E.G. 54 MILS = 0.054 IN)
- S = FLANGE WIDTH (E.G. 250 x 1/100 = 2.5 IN)
- 250 = SECTION TYPE (S = STUD, T = TRACK, U = CHANNEL, F = FURRING CHANNEL)
- 54 = MEMBER DEPTH (E.G. 600 x 1/100 = 6.00 IN)

| STUD TYPE | DESIGNATION THICKNESS (MILS) | GAGE (FOR REFERENCE ONLY) |
|---|---|---|
| NON-STRUCTURAL | 18 | 25 |
| | 27 | 22 |
| | 30 | 20 |
| STRUCTURAL STUDS | 33 | 20 |
| | 43 | 18 |
| | 54 | 16 |
| | 68 | 14 |
| | 97 | 12 |
| | 118 | 10 |

10. PROVIDE SECTIONS WITH PROPERTIES MEETING OR EXCEEDING THE STEEL STUD MANUFACTURER'S ASSOCIATION (SSMA) TABULATED GROSS SECTION PROPERTIES AND A CURRENT THIRD PARTY EVALUATION REPORT. THE SUBMITTAL SHALL DEMONSTRATE THAT THE VALUES MEET/EXCEED SSMA'S TABULATED VALUES FOR THE PROJECT-SPECIFIC SECTIONS.

## STRUCTURAL SUBMITTALS

1. EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN WIND- OR SEISMIC-FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM OR A WIND- OR SEISMIC-RESISTING COMPONENT LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTION.
2. THE FOLLOWING LIST SUMMARIZES REQUIRED STRUCTURAL SUBMITTALS FOR THIS PROJECT. REFER TO THE SPECIFICATIONS FOR A COMPLETE LIST AND ADDITIONAL REQUIREMENTS.

GENERAL
- QUALIFICATION DATA FOR APPROVED INSTALLERS AND FABRICATORS
- CERTIFICATES OF CONFORMANCE FOR PREFABRICATED MEMBERS
- SEISMIC JOINT AND EXPANSION JOINT COVER PRODUCT DATA

CONCRETE REINFORCEMENT
- MANUFACTURER'S PRODUCT DATA, SPECIFICATIONS AND INSTALLATION PROCEDURES FOR PROPRIETARY MATERIALS AND REINFORCEMENT
- STEEL PRODUCER'S CERTIFICATES OF MILL ANALYSIS, TENSILE AND BEND TESTS
- SHOP DRAWINGS FOR FABRICATION, BENDING AND PLACEMENT

CAST-IN-PLACE CONCRETE
- DESIGN MIX FOR EACH CONCRETE MIX
- MATERIAL TEST REPORTS
- MATERIAL CERTIFICATES FOR CEMENT, AGGREGATES AND ADMIXTURES
- SHOP DRAWINGS FOR PROPOSED LOCATIONS OF ADDITIONAL CONSTRUCTION OR CONTROL JOINTS NOT SHOWN ON THE STRUCTURAL PLANS
- MINUTES FROM PREINSTALLATION CONFERENCE

UNIT MASONRY
- DESIGN MIX FOR GROUT
- MATERIAL TEST REPORTS

STRUCTURAL STEEL
- MANUFACTURER'S MILL CERTIFICATES
- MILL TEST REPORTS
- SHOP DRAWINGS FOR FABRICATION AND ASSEMBLY OF MEMBERS
- ERECTION PLAN SEQUENCE AND PROCEDURES
- WELDING PROCEDURE SPECIFICATIONS (WPS)
- CERTIFICATES FOR ALL WELDERS VERIFYING CURRENT AWS QUALIFICATIONS
- TEST REPORTS FOR SHOP AND FIELD WELDED AND BOLTED CONNECTIONS

STEEL DECK
- SHOP DRAWINGS INDICATING TYPE, LAYOUT, DETAILS, AND OPENINGS LARGER THAN 1'-0"

ROUGH CARPENTRY
- PRODUCT DATA FOR TREATMENTS AND PRESERVATIVES
- MATERIAL CERTIFICATES FOR DIMENSION LUMBER

GLUED LAMINATED BEAMS
- SHOP DRAWINGS INDICATING LAYOUT
- CERTIFICATE OF CONFORMANCE

## HIGH-STRENGTH BOLTS

1. JOINT ASSEMBLIES USING HIGH-STRENGTH BOLTS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE "AISC (RCSC) SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS".
2. ALL HIGH-STRENGTH BOLTS SHALL CONFORM TO ASTM F3125 GRADE A325 OR A490, OR GRADE F1852, TYPE 1, W/ THREADS INCLUDED (N).
3. NUTS SHALL CONFORM TO ASTM A563 AND WASHERS SHALL CONFORM TO ASTM F436.
4. PAINT IS PROHIBITED ON CONTACT SURFACES UNLESS NOTED OTHERWISE. CONTACT SURFACES OF BOLTED PARTS SHALL BE DESCALED AND FREE OF DIRT, OIL, BURRS, PITS, AND OTHER DEFECTS WHICH PREVENT SOLID SEATING OF PARTS.
5. ALL HIGH-STRENGTH BOLTS SHALL BE TIGHTENED TO THE AISC SNUG TIGHT CONDITION UNLESS SPECIFIED AS SLIP-CRITICAL.
6. BOLTS IN "X" CONNECTIONS SHALL HAVE THE THREADS EXCLUDED FROM THE SHEAR PLANE. BOLTS IN "N" CONNECTIONS MAY HAVE THE THREADS INCLUDED IN THE SHEAR PLANE. CONNECTION TYPES ARE INDICATED AFTER THE BOLT GRADE (A325X FOR EXAMPLE). HIGH-STRENGTH BOLTS ARE "N" BEARING CONNECTIONS, UNLESS NOTED OTHERWISE.
7. SLIP-CRITICAL BOLTS SHALL HAVE CLASS "A" FAYING SURFACES. SLIP-CRITICAL JOINT ASSEMBLIES SHALL BE FULLY PRE-TENSIONED BY TURN-OF-NUT TIGHTENING, TENSION CONTROL CALIBRATED WRENCH TIGHTENING, TWIST-OFF BOLTS CONFORMING TO ASTM F3125 GRADE F1852, OR BY DIRECT TENSION INDICATOR TIGHTENING CONFORMING TO ASTM F959.

## WELDING

1. WELDING PROCEDURES, ELECTRODES AND WELDER QUALIFICATIONS SHALL CONFORM TO AWS AND AISC REQUIREMENTS.
2. ALL WELDERS SHALL HAVE EVIDENCE OF PASSING THE AWS STANDARD QUALIFICATION TESTS, AND SHALL BE CERTIFIED FOR THE WORK THEY ARE PERFORMING.
3. PROJECT WELDING SHALL BE PERFORMED ONLY IN ACCORDANCE WITH WELDING PROCEDURE SPECIFICATIONS (WPS) SUBMITTED BY THE CONTRACTOR AND REVIEWED BY THE SEOR AND PROJECT WELDING INSPECTOR. THE WPS SHALL BE IN ACCORDANCE WITH THE APPLICABLE AWS.
4. WELDING OF STRUCTURAL STEEL SHALL BE PERFORMED PER AWS D1.1 USING E70XX ELECTRODES UNLESS OTHERWISE NOTED.
5. ALL FULL PENETRATION WELDS SHALL BE ULTRA-SONIC TESTED PER AWS D1.1 AND D1.8 REQUIREMENTS AS APPLICABLE.
6. ALL GROOVE OR BUTT WELDS SHALL BE COMPLETE PENETRATION WELDS, UNO. ALL EXPOSED BUTT WELDS SHALL BE GROUND SMOOTH.
7. ALL EXPOSED WELDS ON ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) SHALL COMPLY WITH AISC CODE OF STANDARD PRACTICE, SECTION 10.
8. FIELD WELDS HAVE BEEN INDICATED WHERE THEY ARE EXPECTED TO OCCUR. THE CONTRACTOR SHALL DETERMINE THE ACTUAL FIELD WELDING NECESSARY TO COMPLETE THE PROJECT AND INCLUDE ALL ASSOCIATED COSTS WITHIN THE BASE BID.
9. ALL SPECIFIED FILLET WELD SIZES ARE MINIMUM SIZES. INCREASE WELDS TO AISC MINIMUM SIZES BASED ON THICKNESSES OF MATERIALS JOINED.

## STEEL LATERAL FORCE RESISTING SYSTEM

1. HIGH-STRENGTH SLIP-CRITICAL BOLTS SHALL BE USED FOR ALL "LATERAL FORCE RESISTING SYSTEM" (LFRS) MEMBER STEEL TO STEEL CONNECTIONS, UNO.
2. ALL WELDS WITHIN MEMBERS DESIGNATED AS PART OF THE LATERAL FORCE RESISTING SYSTEM (LFRS) SHALL CONFORM TO THE DETAILING, MATERIALS, WORKMANSHIP, TESTING, AND INSPECTION REQUIREMENTS OF AWS D1.8 AND AISC 341, AND SHALL USE A FILLER METAL WITH A CHARPY V-NOTCH (CVN) TOUGHNESS OF 20 FT-LB AT 0°F.
3. WHERE WELDS ARE DESIGNATED AS DEMAND CRITICAL, THEY SHALL BE MADE WITH A FILLER METAL CAPABLE OF PROVIDING A MINIMUM CVN TOUGHNESS OF 20 FT-LB AT -20°F AND 40 FT-LB AT 70°F. SEE AWS D1.8, SECTION 6.3.6, FOR CVN TEST CRITERIA. "DC" INDICATES A DEMAND CRITICAL WELD.
4. WELDERS PERFORMING WELDING WITHIN THE "LFRS" SHALL BE QUALIFIED IN ACCORDANCE WITH AWS D1.8 CHAPTER 5.
5. (INTERMEDIATE MOMENT FRAMES AND SPECIAL MOMENT FRAMES) WELDS FOR COLUMN SPLICES AND COLUMN TO BASEPLATE CONNECTIONS SHALL BE DEMAND CRITICAL WELDS.
6. WHERE A PORTION OF A STRUCTURAL STEEL MEMBER IS DESIGNATED AS A PROTECTED ZONE, IT SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
   a. TACK WELDS, AIR-ARC GOUGING, THERMAL CUTTING, AND OTHER DISCONTINUITIES CREATED BY FABRICATION OR ERECTION OPERATIONS, SHALL BE REPAIRED AS REQUIRED BY SEOR.
   b. WELDED SHEAR STUDS AND DECKING ATTACHMENTS THAT PENETRATE THE BEAM FLANGE SHALL NOT BE PLACED ON BEAM FLANGES. ARC SPOT WELDS AS REQUIRED TO SECURE METAL DECK ARE PERMITTED.
   c. WELDED, BOLTED, SCREWED, OR SHOT-IN ATTACHMENTS FOR PERIMETER EDGE ANGLES, EXTERIOR FACADES, PARTITIONS, DUCT WORK, PIPING, OR OTHER CONSTRUCTION ARE PROHIBITED.
   d. SEE AISC 341 FOR ADDITIONAL REQUIREMENTS.

## METAL DECK

1. SEE TYPICAL DETAILS FOR REINFORCING OF DECK AROUND OPENINGS. CONTRACTOR SHALL COORDINATE SIZE AND LOCATIONS OF OPENINGS WITH THE VARIOUS TRADES. NO LOADS SHALL BE HUNG FROM DECK WITHOUT APPROVAL OF SEOR.
2. FLOOR AND ROOF DECK IS DESIGNED FOR UNSHORED CONSTRUCTION, UNO. MAINTAIN 3 SPAN CONDITION WHEREVER POSSIBLE (2 SPAN MIN) EXCEPT AT STAIR LANDING AND WHERE NOTED OTHERWISE ON PLANS.
3. PROVIDE 2" MINIMUM BEARING AT ALL SUPPORTS. END LAPS OF METAL DECK SHALL BE A MINIMUM OF 2" AND SHALL OCCUR ONLY OVER SUPPORTS. DECK SHALL BE LAID OUT SO THAT A LOW FLUTE FALLS ON EACH PARALLEL SUPPORT.
4. SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION. SHOP DRAWINGS SHALL SHOW TYPE OF DECK, LAYOUT OF DECK, THE SIZE AND LOCATION OF ANY OPENINGS OF WIDTH GREATER THAN 1'-0", AND ATTACHMENT METHOD.
5. ALTERNATES TO TYPE OF DECK AND FASTENING MAY BE USED WITH THE APPROVAL OF THE SEOR. DECK PROPERTIES SHALL BE EQUAL TO OR GREATER THAN THOSE SHOWN ON THE PLANS. ANY DECK OR METHOD OF FASTENING SHALL HAVE AN EVALUATION REPORT APPROVING THE DECK FOR THE APPLICATION.
6. METAL DECK WITH CONCRETE FILL SHALL HAVE POSITIVE VENTING. DO NOT EMBED PIPES, SLEEVES, CONDUIT, ETC IN CONCRETE TOPPING, UNO.
7. WELDING OF METAL DECK SHALL BE IN ACCORDANCE WITH AMERICAN WELDING SOCIETY (AWS) D1.3.
8. PLACE CONCRETE FIRST OVER BEAMS AND GIRDERS RATHER THAN AT MIDSPAN OF DECK. DO NOT PILE CONCRETE HIGHER THAN THE FINISHED DEPTH OF THE SLAB.

## CONCRETE MASONRY

1. CONCRETE MASONRY UNITS (CMU) SHALL DEVELOP THE FOLLOWING MINIMUM 28 DAY PRISM COMPRESSIVE STRENGTHS:

| LOCATION | f'm | CONCRETE MASONRY UNITS | GROUT |
|---|---|---|---|
| ALL CMU, UNO | 2000 PSI | 2000 PSI | 2000 PSI |

2. CONCRETE BLOCK SHALL CONFORM TO ASTM C90 MEDIUMWEIGHT. USE OF LIGHTWEIGHT BLOCK REQUIRES PRIOR WRITTEN APPROVAL BY THE SEOR.
3. MORTAR SHALL BE TYPE S MORTAR.
4. VERTICAL REINFORCING SHALL BE FULL HEIGHT OF WALL AND SHALL BE BRACED AT 6'-8" MAXIMUM TO PREVENT MOVEMENT WHILE GROUTING.
5. HORIZONTAL REINFORCING SHALL BE IN BOND BEAM UNITS AND TIED SECURELY TO VERTICAL REINFORCING.
6. DOWELS, ANCHORS, AND OTHER EMBEDDED ITEMS SHALL BE TIED SECURELY IN PLACE TO PREVENT MOVEMENT WHILE GROUTING. WET SETTING OR STABBING IS NOT ALLOWED.
7. LAYOUT OF MASONRY BLOCK UNITS SHALL BE PER ARCHITECTURAL DRAWINGS. BLOCK MODULES / MORTAR JOINTS SHOWN ON THESE DRAWINGS ARE FOR PRESENTATION PURPOSES ONLY, AND NOT INTENDED TO SUPERCEDE ARCHITECTURAL DESIGN REQUIREMENTS. BLOCK SHALL BE PLACED IN RUNNING BOND AND SHALL BE 8x8x16 NOMINAL UNITS, UNO. WHERE BLOCK IS REQUIRED TO BE PLACED IN STACK BOND (SEE ARCH), OPEN-ENDED UNITS (I.E., "SPEED BLOCK") SHALL BE USED.
8. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE SAFETY OF LIFT HEIGHT FOR OPEN-ENDED OR FIELD MODIFIED BLOCKS.
9. REINFORCING 8" BLOCK:

| | |
|---|---|
| TYPICAL VERTICAL REINFORCING | #5 @ 16"OC, CENTERED, UNO |
| TYPICAL HORIZONTAL REINFORCING | #4 @ 24"OC, UNO |

10. PROVIDE VERTICAL CONTROL JOINTS IN CMU WALLS AS SHOWN ON PLAN. UNLESS NOTED OTHERWISE, VERTICAL CONTROL JOINTS SHALL OCCUR AT:
    a. 25'-0"OC MAXIMUM ALONG LENGTH OF WALL
    b. A SPACING NOT EXCEEDING 1.5 TIMES THE WALL HEIGHT
    c. CHANGES IN WALL HEIGHT
    d. CHANGES IN WALL THICKNESS
    e. FLOOR AND ROOF JOINTS
    f. 24" PAST ONE SIDE OF OPENINGS LESS THAN 6'-0" WIDE
    g. 24" PAST BOTH SIDES OF OPENINGS GREATER THAN OR EQUAL TO 6'-0" WIDE
    h. CORNERS AND INTERSECTIONS, WITHIN A DISTANCE EQUAL TO HALF THE CONTROL JOINT SPACING
11. FILL ALL CELLS WITH GROUT. MAXIMUM GROUT LIFTS SHALL NOT EXCEED 8'-0" AND CLEANOUTS AT THE BOTTOM OF ALL CELLS SHALL BE USED UNLESS THE LIFT IS 4'-0" OR LESS. GROUT FOR EACH POUR SHALL BE STOPPED 1 1/2" BELOW THE TOP OF A BLOCK COURSE EXCEPT AT THE FINAL COURSE. ALL GROUT SHALL BE THOROUGHY CONSOLIDATED BY VIBRATING IMMEDIATELY AFTER PLACING. SHAKING OR RODDING REBAR IS NOT ALLOWED. HORIZONTAL REINFORCING SHALL BE FULLY EMBEDDED IN GROUT IN AN UNINTERRUPTED POUR.
12. (DSA) FILL ALL CELLS WITH GROUT. LIFTS SHALL BE 4'-0" MAX UNLESS HIGH-LIFT GROUTING IS USED. GROUT FOR EACH POUR SHALL BE STOPPED 1 1/2" BELOW TOP OF BLOCK EXCEPT AT THE FINAL COURSE. ALL GROUT SHALL BE THOROUGHLY CONSOLIDATED BY VIBRATING IMMEDIATELY AFTER PLACING. HORIZONTAL REINFORCING SHALL BE FULLY EMBEDDED IN GROUT IN AN UNINTERRUPTED POUR. DSA APPROVAL IS REQUIRED FOR HIGH-LIFT GROUTING. ALL HIGH-LIFT GROUTING SHALL CONFORM TO DSA IR 21-2 AND CBC 2019 SECTION 2104A.1.3.1.1.1.2

## STRUCTURAL STEEL

1. DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE SPECIFICATIONS AND STANDARDS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), AS CONTAINED IN THE "AISC MANUAL OF STEEL CONSTRUCTION". ALL WORK SHALL BE IN CONFORMANCE WITH THE TESTING, INSPECTION, QUALIFICATION, AND QUALITY ASSURANCE PROVISIONS AS REQUIRED BY THE BUILDING CODE AND ANY APPLICABLE STANDARDS. THESE STANDARDS INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING: AISC 360 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS", AISC 303 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", AISC 341 "SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS", AWS D1.1 "STRUCTURAL WELDING CODE - STEEL", AWS D1.8 "STRUCTURAL WELDING CODE - SEISMIC SUPPLEMENT", AND RCSC "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS". CONFORMANCE TO SUPPLEMENTS TO THESE STANDARDS, IF PUBLISHED ON OR BEFORE THE DATE OF PERMIT ISSUANCE, IS ALSO REQUIRED. ALTHOUGH THESE CONTRACT DOCUMENTS INCLUDE GENERAL REFERENCES TO CODES AND STANDARDS, AND REFERENCES TO OR INCLUSIONS OF SPECIFIED PROVISIONS, OMISSIONS OF ANY APPLICABLE CODE, STANDARD, OR PROVISION DOES NOT RELIEVE THE GENERAL CONTRACTOR FROM COMPLIANCE TO THE APPLICABLE REQUIREMENTS. COORDINATION OF QUALITY CONTROL AND QUALITY ASSURANCE IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
2. ALL STRUCTURAL STEEL SHALL BE ERECTED PLUMB AND TRUE TO LINE. TEMPORARY BRACING SHALL BE INSTALLED AND SHALL BE LEFT IN PLACE UNTIL OTHER MEANS IS PROVIDED TO ADEQUATELY BRACE THE STRUCTURE.
3. STRUCTURAL STEEL MATERIALS/GRADES, UNO:

| SHAPE | MATERIAL / GRADE |
|---|---|
| WIDE FLANGE & TEES | ASTM A992 |
| PLATES, ANGLES, CHANNELS, THREADED RODS (UNO) | ASTM A36 |
| HIGH-STRENGTH PLATE (UNO) | ASTM A572, GRADE 50 |
| HIGH-STRENGTH PLATE 4 1/4" AND THICKER | ASTM A572, GRADE 42 |
| SQUARE OR RECTANGULAR HOLLOW STRUCTURAL SECTIONS (HSS) | ASTM A500, GRADE C (Fy = 50 KSI) OR ASTM A1085 |
| ROUND HOLLOW STRUCTURAL SECTIONS (HSS) | ASTM A500, GRADE C (Fy = 46 KSI) OR ASTM A1085 |
| PIPES | ASTM A53 TYPE E OR S, GRADE B (Fy = 35 KSI) |
| MACHINE BOLTS (MB) | ASTM A307 |
| WELDED HEADED STUDS | ASTM A29 |
| THREADED RODS FOR ANCHOR BOLTS | ASTM F1554, GRADE 55 |

   a. EXCEPT AS OTHERWISE NOTED, ALL BOLTS SHALL BE HIGH-STRENGTH BOLTS.
   b. WHERE WELDING TO GRADE 55 THREADED ANCHOR RODS IS REQUIRED, USE ASTM F1554 GRADE 55 WITH SUPPLEMENT S1.
4. ALL CONNECTIONS NOT SHOWN SHALL CONFORM TO THE "AISC MANUAL OF STEEL CONSTRUCTION" AND SHALL BE SUBMITTED ON SHOP DRAWINGS FOR REVIEW BY SEOR PRIOR TO FABRICATION.
5. ALL WELDED HEADED STUDS, THREADED STUDS, AND DEFORMED BARS SHALL BE NELSON, OR EQUIVALENT, AND WELDED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS BY CERTIFIED WELDERS SO AS TO FULLY DEVELOP THE TENSILE CAPACITY OF THE CONNECTOR.
6. BOLTS WITH UPSET THREADS ARE NOT ALLOWED. USE THE APPROPRIATE NUT AND WASHER TYPE FOR THE SPECIFIED BOLT.
7. ALL STEEL FABRICATION SHALL BE PERFORMED BY A LICENSED FABRICATOR.
8. BEAMS NOT SPECIFIED WITH CAMBER SHALL HAVE MILL CAMBER PLACED IN UPWARD POSITION.
9. ALL STRUCTURAL STEEL AND MISCELLANEOUS STEEL PERMANENTLY EXPOSED TO THE ELEMENTS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION UNLESS A WEATHERPROOF COATING IS SPECIFIED BY THE ARCHITECT, UNO. STAINLESS AND WEATHERING STEELS, WHERE SPECIFIED, ARE EXEMPT FROM THIS REQUIREMENT. GALVANIZED SURFACES SHALL BE PROTECTED DURING CONSTRUCTION AND SHALL BE REPAIRED AS NECESSARY. ALL ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) SHALL COMPLY WITH AISC CODE OF STANDARD PRACTICE, SECTION 10.
10. SEE ARCHITECTURAL DRAWINGS FOR NAILER HOLES, WELDED STUDS OR OTHER ITEMS NOT SHOWN IN THESE DRAWINGS.
11. WHERE STEEL IS EMBEDDED IN CONCRETE OR MASONRY, PROVIDE HOLES AS REQUIRED FOR PASSAGE OF CONTINUOUS REINFORCING BARS WHERE INDICATED ON DRAWINGS.
12. DO NOT CUT HOLES IN STRUCTURAL STEEL WITHOUT APPROVAL OF THE SEOR.
13. PLACE NON-SHRINK OR DRYPACK GROUT UNDER ALL BASEPLATES AND ALLOW TO CURE UNTIL SPECIFIED STRENGTH IS REACHED BEFORE APPLYING LOADS.
14. WHERE AN HSS OR PIPE SECTION IS INSTALLED IN AN EXTERIOR CONDITION, PROVIDE CAP PLATE EACH END WITH SEAL WELD ALL AROUND.

## FOUNDATIONS AND SLABS ON GRADE

1. GEOTECHNICAL REPORT INFORMATION AND DESIGN CRITERIA:

| GEOTECHNICAL REPORT | |
|---|---|
| AUTHOR | BYER GEOTECHNICAL, INC. |
| REPORT NUMBER | BG 21566 |
| DATE | SEPTEMBER 18, 2012 |
| GEOTECHNICAL DESIGN CRITERIA | |
| MINIMUM WIDTH OF FOOTINGS | 12" |
| MINIMUM EMBEDMENT OF FOOTINGS | 24" |
| ALLOWABLE SOIL PRESSURE, DEAD LOAD + LIVE LOAD | 2000 PSF |
| INCREASE 400 PSF PER ADD'L FOOTING WIDTH & DEPTH | 4000 PSF |
| ALLOWABLE SOIL PRESSURE, DEAD LOAD + LIVE LOAD + LATERAL LOAD | 2667 PSF |
| ALLOWABLE LATERAL SOIL BEARING PRESSURE PER FOOT OF DEPTH | 260 PSF |
| DESIGN COEFFICIENT OF FRICTION FOR SLIDING | 0.37 |

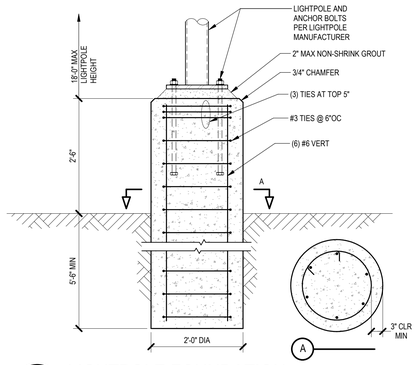
2. THE CONTRACTOR SHALL CONFORM TO ALL RECOMMENDATIONS AND CONDITIONS INDICATED IN THE GEOTECHNICAL REPORT. THE GEOTECHNICAL ENGINEER SHALL OBSERVE ALL FOOTING EXCAVATIONS PRIOR TO PLACING CONCRETE.
3. FOOTINGS ARE CENTERED UNDER WALLS AND COLUMNS, UNO.
4. ALL TRENCHES SHALL COMPLY WITH APPLICABLE OSHA REQUIREMENTS.
5. ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED BUT NOT BEHIND RETAINING WALLS BEFORE CONCRETE OR MASONRY ATTAINS ITS FULL DESIGN STRENGTH.
6. THE DESIGN OF ALL RETAINING WALLS AND SUBTERRANEAN BUILDING WALLS INDICATED ON THESE DRAWINGS IS BASED ON DRAINED SOILS.
7. CONSTRUCTION JOINTS (CJ) AND SAWCUT (SC) JOINTS IN SLABS SHALL OCCUR WHERE SPECIFIED IN CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL SUBMIT SLAB JOINT LAYOUT TO SEOR FOR REVIEW PRIOR TO PLACING CONCRETE. CJ'S SHALL HAVE FORMED POUR STOPS. CONSTRUCTION JOINTS MAY BE LOCATED AT OR NEAR FLOOR LINES. BARS MAY BE WIRED TOGETHER AT SPLICES OR LAPS EXCEPT FOR TOP REINFORCING OF BEAMS AND SLABS OR WHERE SPECIFICALLY DETAILED TO BE SEPARATED. WELDED WIRE FABRIC SHALL BE LAPPED 12" MINIMUM.
8. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF SLAB SLOPES, DEPRESSIONS, CURBS, DRAINS. NON-STRUCTURAL PARTITIONS AND OTHER EMBEDDED ITEMS NOT SHOWN IN THE STRUCTURAL DRAWINGS.
9. CONTRACTOR SHALL PROTECT ALL UTILITY LINES, ETC. ENCOUNTERED DURING EXCAVATION AND BACKFILLING. THE ARCHITECT AND ENGINEERS ARE NOT RESPONSIBLE FOR THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES WHETHER OR NOT SHOWN ON THE DRAWINGS. THE LOCATION OF ANY EXISTING UNDERGROUND UTILITIES SHOWN ON THE DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER SHOULD ANY SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES WHICH MAY RESULT FROM FAILURE TO EXACTLY LOCATE AND PRESERVE ALL EXISTING UNDERGROUND UTILITIES.
10. THE SLAB ON GRADE IS NOT DESIGNED TO SUPPORT TRAFFIC FROM CRANES OR OTHER HEAVY CONSTRUCTION VEHICLES. CONTRACTOR SHALL REPAIR OR REPLACE DAMAGED CONCRETE SLABS.

## REINFORCING STEEL

1. REINFORCING GRADES FOR CONCRETE AND MASONRY:

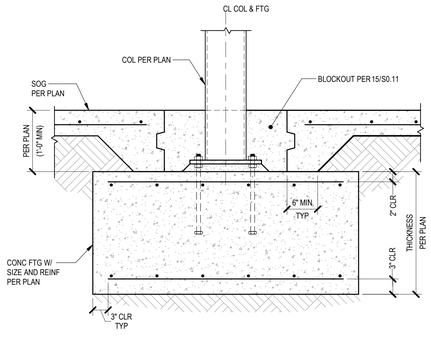
| | |
|---|---|
| ALL BARS UNLESS NOTED OTHERWISE | ASTM A615 OR A706, GRADE 60 |
| TIES AND STIRRUPS | ASTM A615 OR A706, GRADE 60 |
| WELDED WIRE FABRIC | ASTM A1064 |
| ALL BARS TO BE WELDED | ASTM A706, GRADE 60 |

2. ALL BARS SHALL BE DEFORMED.
3. MAINTAIN CONCRETE COV



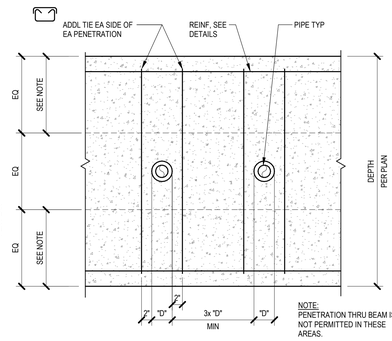

## 17 LIGHTPOLE FOUNDATION

NTS 033100_01-0111




## 13 STEEL COLUMN TO PAD FOOTING

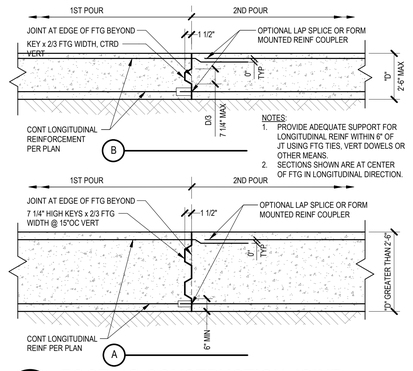
NTS 033100_01-0103




NOTE:
PENETRATION THRU BEAM IS NOT PERMITTED IN THESE AREAS.

## 9 PIPING & CONDUIT THRU GRADE BEAM

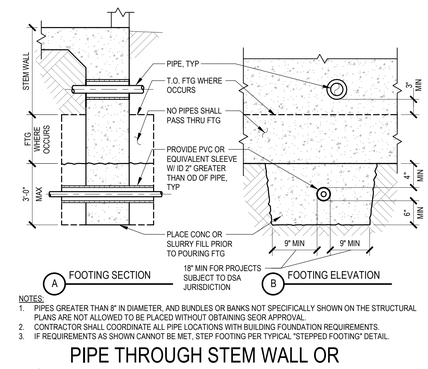
NTS 033100_00-0103




NOTES:
1. PROVIDE ADEQUATE SUPPORT FOR LONGITUDINAL REINF WITHIN 6" OF JT USING FTG TIES, VERT DOWELS OR OTHER MEANS.
2. SECTIONS SHOWN ARE AT CENTER OF FTG IN LONGITUDINAL DIRECTION.

## 5 FOOTING CONSTRUCTION JOINT

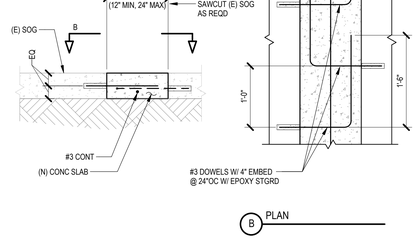
NTS 033100_01-0104




NOTES:
1. PIPES GREATER THAN 8" IN DIAMETER, AND BUNDLES OR BANKS NOT SPECIFICALLY SHOWN ON THE STRUCTURAL PLANS ARE NOT ALLOWED TO BE PLACED WITHOUT OBTAINING SEOR APPROVAL.
2. CONTRACTOR SHALL COORDINATE ALL PIPE LOCATIONS WITH BUILDING FOUNDATION REQUIREMENTS.
3. IF REQUIREMENTS AS SHOWN CANNOT BE MET, STEP FOOTING PER TYPICAL "STEPPED FOOTING" DETAIL.

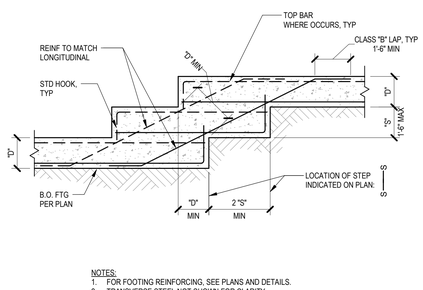
## 1 PIPE THROUGH STEM WALL OR BELOW FOOTING

NTS 033100_00-0101




## 10 ISOLATED EQUIPMENT PAD

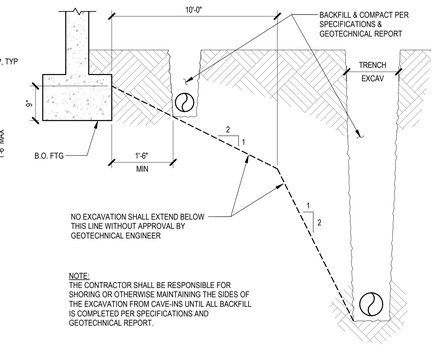
NTS 033053_01-0101




NOTES:
1. FOR FOOTING REINFORCING, SEE PLANS AND DETAILS.
2. TRANSVERSE STEEL NOT SHOWN FOR CLARITY.
3. TWO STEPS ARE SHOWN, DETAIL FOR SINGLE STEP OR ADDITIONAL STEPS IS SIMILAR.

## 6 STEPPED FOOTING

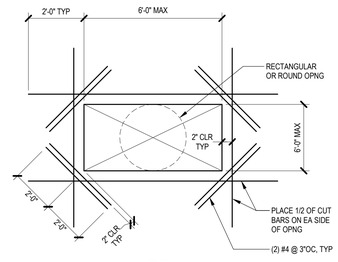
NTS 033100_01-0100




NOTE:
THE CONTRACTOR SHALL BE RESPONSIBLE FOR SHORING OR OTHERWISE MAINTAINING THE SIDES OF THE EXCAVATION FROM CAVE-INS UNTIL ALL BACKFILL IS COMPLETED PER SPECIFICATIONS AND GEOTECHNICAL REPORT.

## 2 EXCAVATION PARALLEL TO FOOTINGS

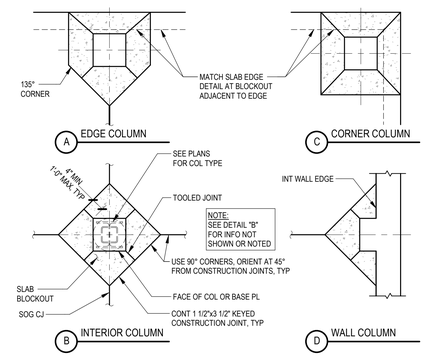
NTS 033100_00-0102




PLAN

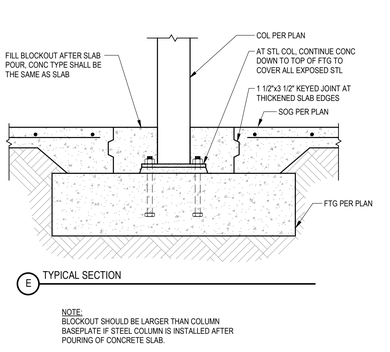
## 19 OPENING IN SLAB ON GRADE

NTS 033100_03-0103

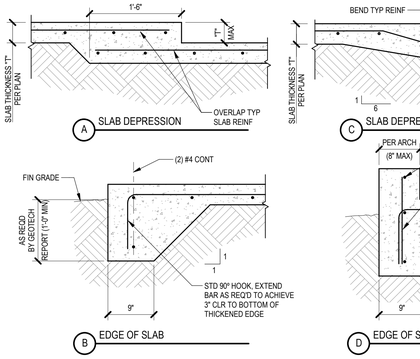



## 15 SLAB BLOCKOUT AT COLUMNS

NTS 033100_03-0101

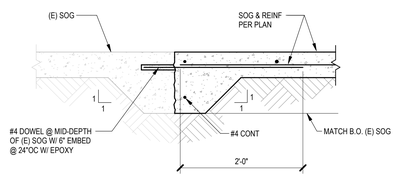



NOTE:
BLOCKOUT SHOULD BE LARGER THAN COLUMN BASEPLATE IF STEEL COLUMN IS INSTALLED AFTER POURING OF CONCRETE SLAB.



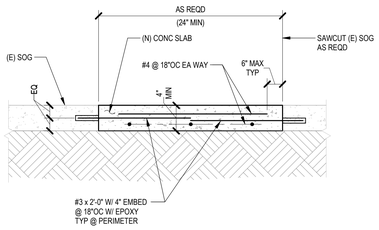

## 7 SLAB ON GRADE DETAILS

NTS 033100_03-0100




## 20 EDGE OF SLAB TO (E) SLAB

NTS 030000-0103



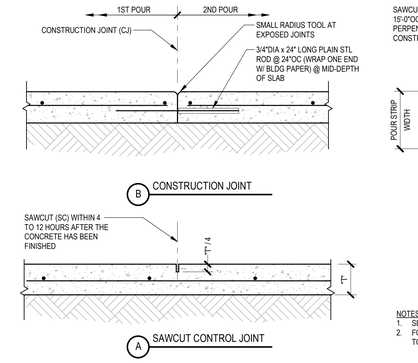

## 16 INTERIOR SAWCUT IN (E) SLAB

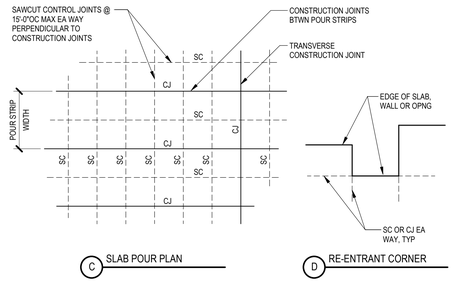
NTS 030000-0106




## 12 NARROW INTERIOR SAWCUT IN (E) SLAB

NTS 030000-0107




NOTES:
1. SEE ARCHITECTURAL PLANS FOR LOCATIONS OF VISUALLY EXPOSED CONTROL JOINTS.
2. FOR POURING SEQUENCE OTHER THAN THAT SHOWN ON THESE PLANS, SUBMIT SHOP DRAWINGS TO SEOR FOR REVIEW 7 DAYS PRIOR TO POUR.

## 8 SLAB ON GRADE CONTROL JOINTS

NTS 033100_03-0102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CONSULTANTS LOGO

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La Mesa, CA 91942
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miyamotointernational.com


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| NO. | DATE | REVISIONS |
|---|---|---|
| | 11/15/2023 | 100% Design Development |

PROJECT TITLE:

# Altadena Main Library

600 E MARIPOSA STREET
ALTADENA, CA 91001

| | |
|---|---|
| PROJECT NO. | 2111010 |
| DATE: | Issue Date |

SHEET TITLE:

**TYPICAL FOUNDATION & SOG DETAILS**

SCALE: As indicated


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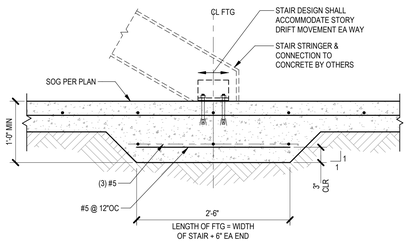
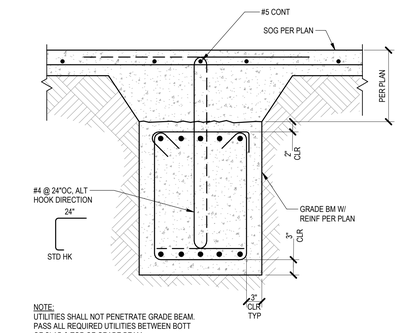



## 13 STAIR STRINGER FTG (STAIR BY OTHERS)

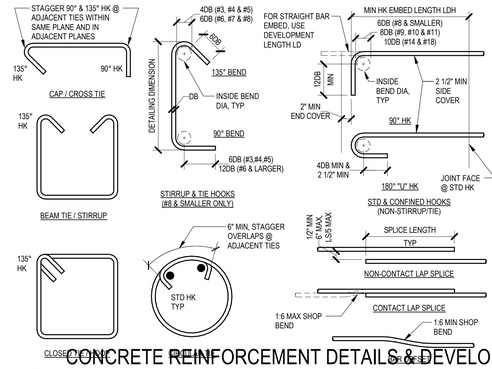
NTS 055100-0101




NOTE:
UTILITIES SHALL NOT PENETRATE GRADE BEAM. PASS ALL REQUIRED UTILITIES BETWEEN BOTT OF SLAB & TOP OF GRADE BEAM.

## 9 GRADE BEAM TO SLAB

NTS 033100.02-0101



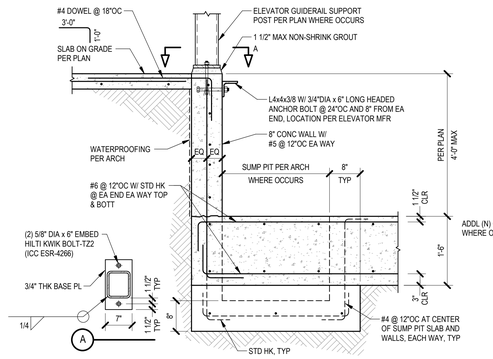

**HOOKS, LAPS & DEVELOPMENT LENGTHS**

| | BAR SIZE | STD HOOK DEVELOPMENT LENGTH 'LDH' (IN) | CLASS B LAP SPLICE 'LS' (IN) | | DEVELOPMENT LENGTH 'LD' (IN) | |
|---|---|---|---|---|---|---|
| | | | BOTT | TOP | BOTT | TOP |
| 3000 PSI NWC | #3 | 6 | 22 | 28 | 17 | 22 |
| | #4 | 8 | 29 | 37 | 22 | 29 |
| | #5 | 10 | 36 | 47 | 28 | 36 |
| | #6 | 12 | 43 | 56 | 33 | 43 |
| | #7 | 14 | 63 | 81 | 48 | 63 |
| | #8 | 16 | 72 | 93 | 55 | 72 |
| | #9 | 18 | 81 | 105 | 62 | 81 |
| | #10 | 20 | 91 | 118 | 70 | 91 |
| | #11 | 22 | 101 | 131 | 78 | 101 |
| 4000 PSI NWC | #3 | 6 | 19 | 24 | 15 | 19 |
| | #4 | 7 | 25 | 32 | 19 | 25 |
| | #5 | 9 | 31 | 40 | 24 | 31 |
| | #6 | 10 | 37 | 48 | 29 | 37 |
| | #7 | 12 | 54 | 70 | 42 | 54 |
| | #8 | 14 | 62 | 80 | 48 | 62 |
| | #9 | 15 | 70 | 91 | 54 | 70 |
| | #10 | 17 | 79 | 102 | 61 | 79 |
| | #11 | 19 | 87 | 113 | 67 | 87 |
| 5000 PSI NWC | #3 | 6 | 17 | 22 | 13 | 17 |
| | #4 | 6 | 22 | 29 | 17 | 22 |
| | #5 | 8 | 28 | 36 | 22 | 28 |
| | #6 | 9 | 33 | 43 | 26 | 33 |
| | #7 | 11 | 49 | 63 | 37 | 49 |
| | #8 | 12 | 55 | 72 | 43 | 55 |
| | #9 | 14 | 63 | 81 | 48 | 63 |
| | #10 | 15 | 70 | 91 | 54 | 70 |
| | #11 | 17 | 78 | 101 | 60 | 78 |

NOTES:
1. SEE BUILDING CODE AND ACI FOR ALL REQUIREMENTS NOT NOTED.
2. FOR LIGHTWEIGHT CONCRETE, MULTIPLY LDH, LS AND LD VALUES BY 1.33.
3. "TOP" BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF FRESH CONCRETE CAST BELOW BARS. ALL OTHER BARS ARE "BOTT" BARS.
4. WHERE REQUIRED LS CANNOT BE OBTAINED WITH STRAIGHT BARS, EXTEND REINFORCING AS FAR AS POSSIBLE (LDH MINIMUM) AND PROVIDE STANDARD HOOK. WHERE LDH CANNOT BE OBTAINED, CONTACT THE SEOR.
5. VALUES ARE FOR GRADE 60 (FY=60 KSI) REINFORCEMENT.
6. SPLICE LENGTHS ARE FOR CLEAR SPACING NOT LESS THAN 2DB AND CONCRETE COVER NOT LESS THAN DB.
7. FOR EPOXY-COATED AND/OR BUNDLED REINFORCEMENT, CONTACT THE SEOR.
8. WHERE BARS OF DIFFERENT SIZES ARE LAP SPLICED IN TENSION, SPLICE LENGTH SHALL BE THE LARGER OF LD OF THE LARGER BAR AND LS OF THE SMALLER BAR.
9. WHERE CLASS "A" LAP SPLICES ARE SPECIFICALLY INDICATED, USE LD'.

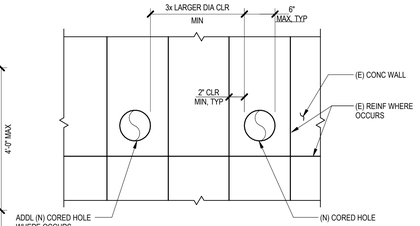
## 5 CONCRETE REINFORCEMENT DETAILS & DEVELOPMENT LENGTHS

NTS 032000-0100




## 14 ELEVATOR PIT

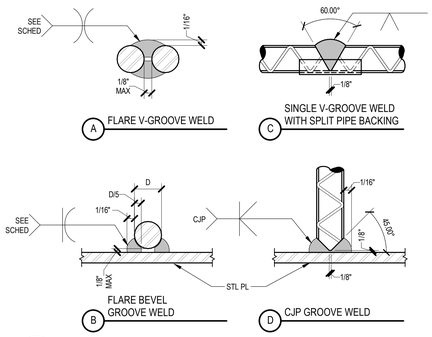
NTS 142000-0100

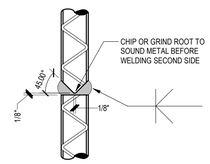



NOTES:
1. ALL CORED HOLE LOCATIONS SHALL BE REVIEWED AND APPROVED BY THE SEOR PRIOR TO CORING.
2. PROVIDE NONDESTRUCTIVE TESTING TO DETERMINE THE LOCATION OF (E) REINFORCING BARS PRIOR TO THE CORING OF (N) HOLES. LOCATE THE (N) CORED HOLES IN SUCH A MANNER TO AVOID CONTACT WITH (E) REINFORCING.

## 10 NEW CORED HOLES IN EXISTING CONC

NTS 030000-0101



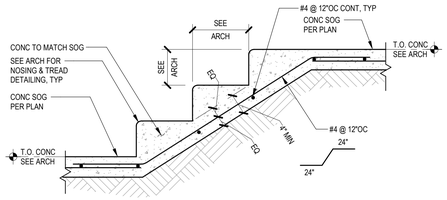

**WELD SCHEDULE**

| BAR SIZE | MIN WELD LENGTH |
|---|---|
| #3 | 3" |
| #4 | 3" |
| #5 | 3" |
| #6 | 4" |
| #7 | 5" |
| #8 | 5" |
| #9 | 6" |
| #10 | 6" |

NOTES:
1. REINFORCING BARS TO BE WELDED SHALL MEET THE REQUIREMENTS OF ASTM A706.
2. WELDING SHALL BE WITH LOW HYDROGEN ELECTRODES E80XX AND SHALL CONFORM TO AWS D1.4.

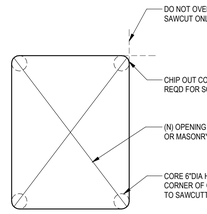
## 6 REINFORCING BAR WELDING

NTS 032000-0101




## 11 INTERIOR STAIR ON GRADE

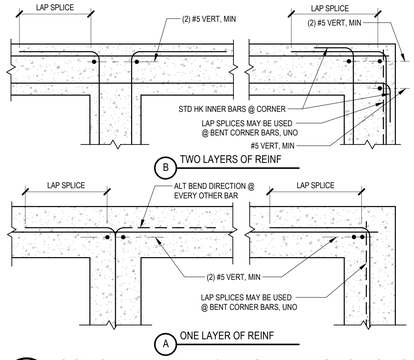
NTS 033053.02-0102




NOTES:
1. ALL OPENING LOCATIONS SHALL BE REVIEWED AND APPROVED BY THE SEOR PRIOR TO CORING.
2. PROVIDE NONDESTRUCTIVE TESTING TO DETERMINE THE LOCATION OF (E) REINFORCING BARS PRIOR TO THE CUTTING OF (N) HOLES. LOCATE THE (N) OPENING IN SUCH A MATTER TO AVOID CONTACT WITH (E) REINFORCING.

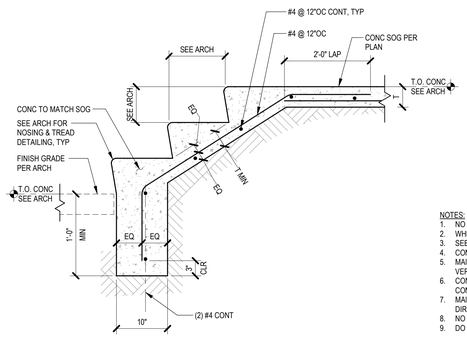
## 7 SAWCUT OPENING

NTS 030000-0100



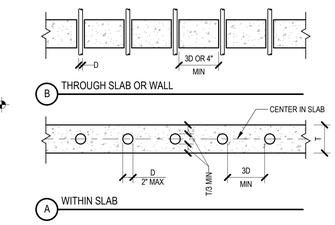

## 3 CONCRETE WALL & FTG INTERSECTIONS

NTS 032000-0102




## 12 STAIR ON GRADE

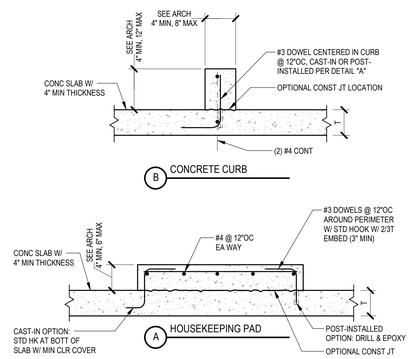
NTS 033053.02-101




NOTES:
1. NO CONDUIT/PIPES SHALL BE ALLOWED IN SLABS UNLESS "T" IS A MINIMUM OF 5".
2. WHERE CLEAR DISTANCE CANNOT BE ACHIEVED, THIS AREA SHALL BE TREATED AS A SLAB OPENING.
3. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATION.
4. CONDUIT SHALL BE 2'-0" MIN FROM PT TENDONS AND TENDON ANCHORAGE.
5. MAINTAIN A MINIMUM HORIZONTAL CLEARANCE FROM PARALLEL PT TENDONS OF 1'-0" AND A MINIMUM VERTICAL CLEARANCE OF 1" FROM PT TENDONS BEING CROSSED.
6. CONDUITS/PIPES SHALL BE ADEQUATELY SUPPORTED AND SECURED AGAINST DISPLACEMENT PRIOR TO CONCRETE PLACEMENT.
7. MAINTAIN ONE REBAR DIAMETER CLEAR BETWEEN CONDUIT/PIPES AND REBARS. DO NOT SET CONDUIT/PIPES DIRECTLY ON REBAR.
8. NO MORE THAN 5 PARALLEL CONDUITS MAY BE PLACED IN ANY 5'-0" WIDE STRIP OF CONCRETE.
9. DO NOT CUT/RELOCATE REBAR TO INSTALL CONDUIT OR PIPING.

## 8 PIPES/CONDUITS IN/THRU SLAB & WALL

NTS 033100_00-0100




## 4 CONCRETE PAD & CURB

NTS 033053_01-0100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|---|---|---|
| | 11/15/2023 | 100% Design Development |

PROJECT TITLE:

# Altadena Main Library

600 E MARIPOSA STREET
ALTADENA, CA 91001

| | |
|---|---|
| PROJECT NO. | 2111010 |
| DATE: | Issue Date |

SHEET TITLE:

**TYPICAL CONCRETE DETAILS**

SCALE: As indicated


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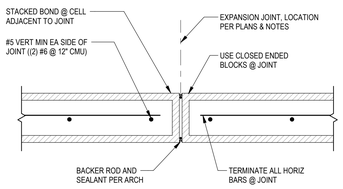
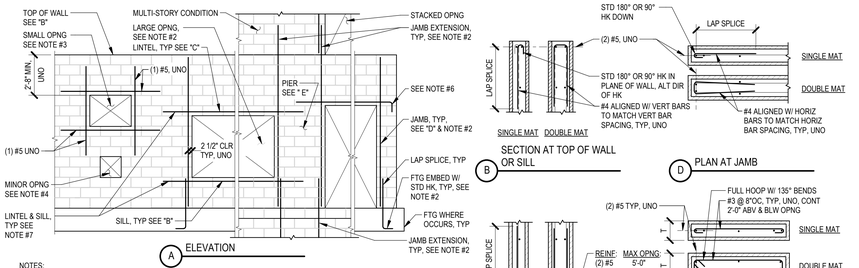



NOTE:
DO NOT SUBSTITUTE EXPANSION JOINTS FOR CONTROL JOINTS. USE ONLY WHERE SPECIFICALLY NOTED.

## 9 CMU WALL EXPANSION JOINT

NTS 042200-0104

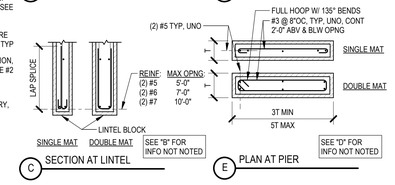



A ELEVATION

NOTES:
1. SEE PLANS FOR TYPICAL AND ADDITIONAL REINFORCEMENT.
2. FOR OPENINGS 36" OR LARGER IN WIDTH, USE FULL HEIGHT JAMB BARS. EXTEND TO TOP OF WALL AT UPPER OR SINGLE STORY, AND 48DB BELOW TOP OF FLOOR AND INTO FOOTING.
3. AT OPENINGS LESS THAN 36" IN WIDTH, EXTEND JAMB BARS 48DB PAST EDGE OF OPENING.
4. FOR MINOR OPENINGS THAT DO NOT INTERRUPT TYPICAL REINF, ARE NO LARGER THAN 24" SQ, AND ARE AT LEAST 24" FROM ADJACENT OPENINGS AND WALL ENDS, NO ADDITIONAL REINF IS REQUIRED UNO.
5. WHERE FULL EXTENSION IS NOT POSSIBLE, EXTEND BARS AS FAR AS POSSIBLE AND USE A STD HOOK.
6. EXTEND LINTEL AND SILL BARS 48DB MINIMUM PAST EDGE OF OPENING.
7. THE WEB AND SHELL MAY BE REMOVED TO FACILITATE INSTALLATION, IF REQUIRED, PROVIDED THAT GROUTING AND BLOCK INTEGRITY ARE NOT COMPROMISED.




B SECTION AT TOP OF WALL OR SILL




C SECTION AT LINTEL

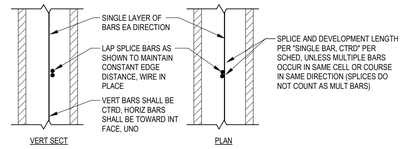
D PLAN AT JAMB



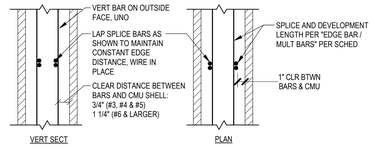

E PLAN AT PIER

## 5 REINFORCEMENT FOR CMU WALL OPENINGS

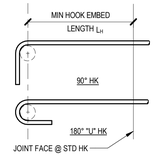
NTS 042200-0100




A REINFORCEMENT CENTERED IN CMU BLOCK




B REINFORCEMENT AT EDGE OF CMU BLOCK / MULTIPLE BARS



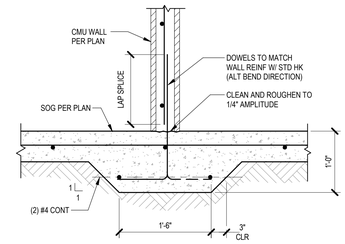

C STD HOOKS

| | BAR SIZE | STD HOOK $L_{H}$ (IN) | LAP SPLICE (IN) UNO | DEVELOPMENT LENGTH $L_{D}$ (IN) UNO | |
|---|---|---|---|---|---|
| | | | $72D_{B}$ (IN) | EDGE BAR/ MULT BARS | SINGLE BAR, CTRD |
| ALL CMU | #3 | 11 | 27 | 16 | 15 |
| | #4 | 14 | 36 | 25 | 20 |
| | #5 | 17 | 45 | 39 | 25 |
| | #6 | 30 | 54 | 54 | 39 |
| | #7 | 39 | 63 | 63 | 50 |
| | #8 | 59 | 72 | 72 | 72 |
| | #9 | 66 | 81 | 81 | 81 |

NOTES:
1. VALUES ARE FOR GRADE 60 REINF DEVELOPED IN CMU (f'm = 2000 PSI).
2. VALUES MAY NOT BE USED FOR DEVELOPMENT INTO CONCRETE.

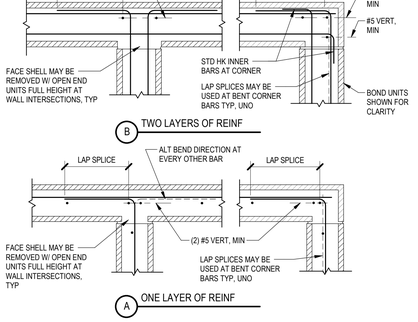
## 6 CMU REINFORCEMENT DETAILS & DEVELOPMENT LENGTHS

NTS 042200-0101




## 7 NON-BEARING CMU WALL FTG

NTS 042200-0108



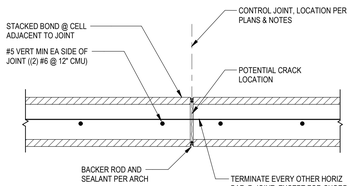

B TWO LAYERS OF REINF




A ONE LAYER OF REINF

## 3 CMU WALL INTERSECTIONS

NTS 042200-0107

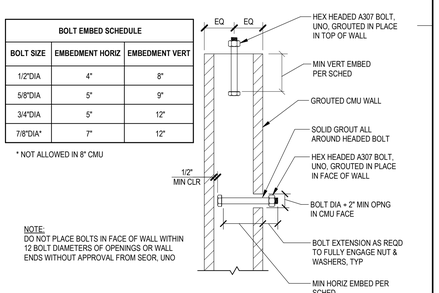



## 8 CMU WALL CONTROL JOINT

NTS 042200-0103

| BOLT EMBED SCHEDULE | | |
|---|---|---|
| BOLT SIZE | EMBEDMENT HORIZ | EMBEDMENT VERT |
| 1/2"DIA | 4" | 8" |
| 5/8"DIA | 5" | 9" |
| 3/4"DIA | 5" | 12" |
| 7/8"DIA* | 7" | 12" |

* NOT ALLOWED IN 8" CMU




NOTE:
DO NOT PLACE BOLTS IN FACE OF WALL WITHIN 12 BOLT DIAMETERS OF OPENINGS OR WALL ENDS WITHOUT APPROVAL FROM SEOR, UNO

## 4 HEADED BOLT IN CMU WALL

NTS 042200-0105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| | 11/15/2023 | 100% Design Development |

PROJECT TITLE:

Altadena Main Library

600 E MARIPOSA STREET
ALTADENA, CA 91001

| | |
|---|---|
| PROJECT NO. | 2111010 |
| DATE: | Issue Date |

SHEET TITLE:

**TYPICAL MASONRY DETAILS**

SCALE: As indicated


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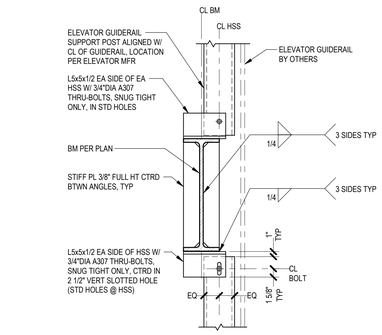
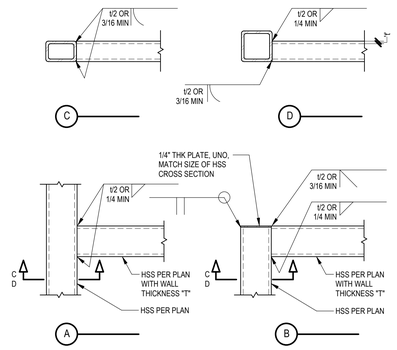


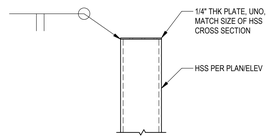

## 17 ELEVATOR GUIDERAIL SUPPORT POST

NTS 142000-0101



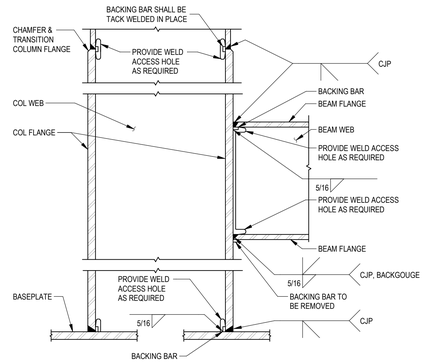

## 13 HSS TO HSS CONNECTIONS

NTS 051200_01-0108



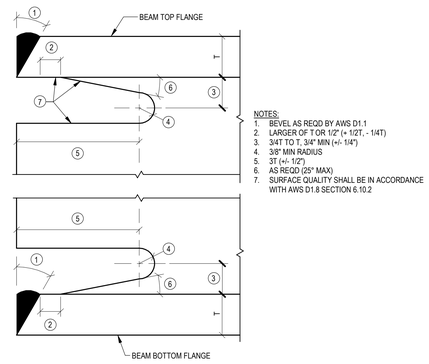

## 9 HSS CAP PLATE

NTS 051200_00-0105



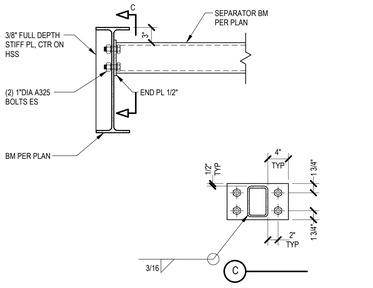

## 5 BACKING BAR WELDING

NTS 051200_00-0100




## 1 WELD ACCESS HOLE

NTS 051200_00-0101



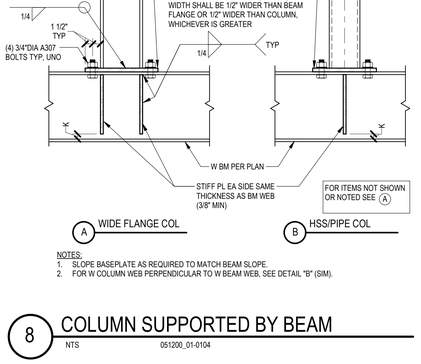

## 18 ELEVATOR GUIDERAIL SUPPORT POST AT SEPARATOR BEAM

NTS



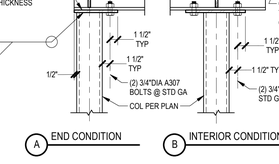

## 10 HSS SLOT

NTS 051200_00-0104




## 6 BENT BEAM

NTS 051200_02-0107

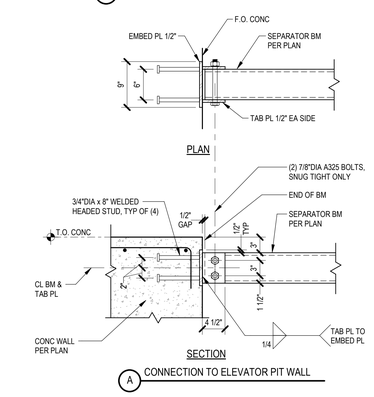



## 2 WEB STIFFENER

NTS 051200_00-0103



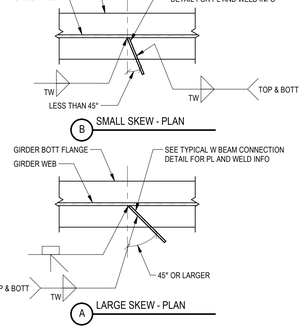

B CONNECTION TO STEEL BEAM




A CONNECTION TO ELEVATOR PIT WALL

## 20 TYPICAL ELEVATOR SEPARATOR BEAM

NTS



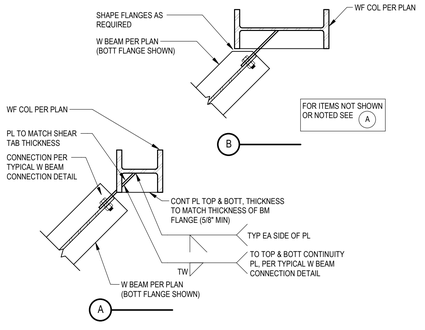

B SMALL SKEW - PLAN




A LARGE SKEW - PLAN

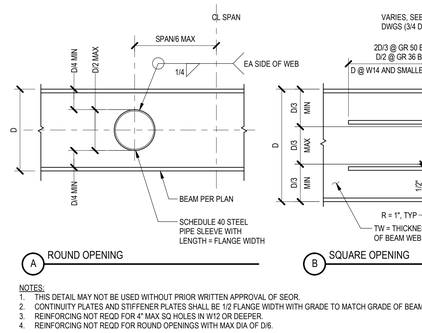
## 15 SKEWED BEAM TO BEAM CONNECTION

NTS 051200_02-0111




## 11 SKEWED W BEAM/COLUMN CONN

NTS 051200_01-0105




NOTES:
1. THIS DETAIL MAY NOT BE USED WITHOUT PRIOR WRITTEN APPROVAL OF SEOR.
2. CONTINUITY PLATES AND STIFFENER PLATES SHALL BE 1/2 FLANGE WIDTH WITH GRADE TO MATCH GRADE OF BEAM.
3. REINFORCING NOT REQD FOR 4" MAX SQ HOLES IN W12 OR DEEPER.
4. REINFORCING NOT REQD FOR ROUND OPENINGS WITH MAX DIA OF D/6.

## 7 HOLE THROUGH STEEL BEAM WEB

NTS 051200_02-0103



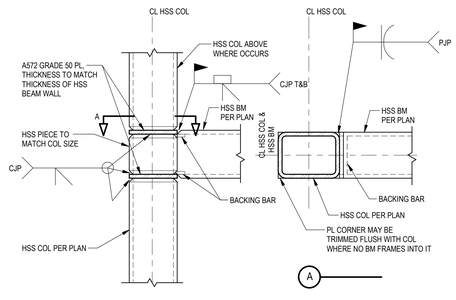

NOTES:
1. SLOPE BASEPLATE AS REQUIRED TO MATCH BEAM SLOPE.
2. FOR W COLUMN WEB PERPENDICULAR TO W BEAM WEB, SEE DETAIL "B" (SIM).




NOTES:
1. SLOPE COLUMN CAP PLATE AS REQUIRED TO MATCH BEAM SLOPE.
2. USE STIFF PLATE AS CONNECTION PLATE WHERE REQUIRED.
3. OFFSET STIFF PLATE AS REQUIRED AT BEAM CONNECTION.

## 8 COLUMN SUPPORTED BY BEAM

NTS 051200_01-0104




## 16 HSS BEAM TO HSS COLUMN MOMENT CONNECTION

NTS 051200_05-0104

## 4 BEAM TO TOP OF COLUMN

NTS 051200_02-0104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| | 11/15/2023 | 100% Design Development |

PROJECT TITLE:

# Altadena Main Library

600 E MARIPOSA STREET
ALTADENA, CA 91001

| | |
|---|---|
| PROJECT NO. | 2111010 |
| DATE: | Issue Date |

SHEET TITLE:

**TYPICAL STRUCTURAL STEEL DETAILS**

SCALE: As indicated


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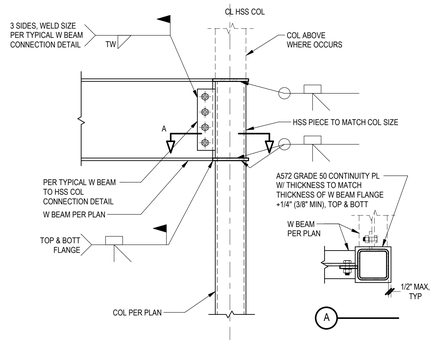


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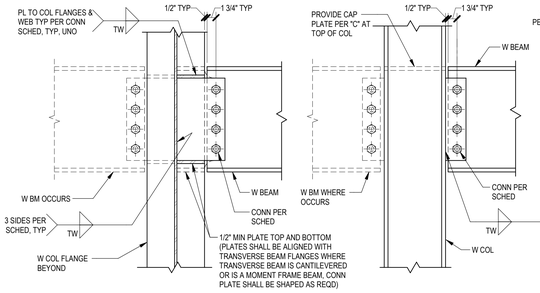
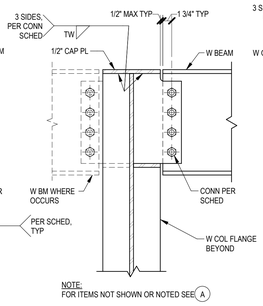



A BEAM TO COL WEB

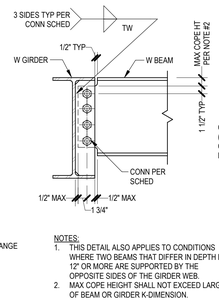



B BEAM TO COL FLANGE



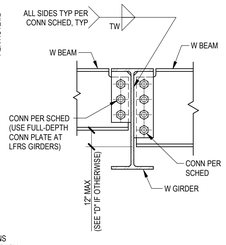

NOTE:
FOR ITEMS NOT SHOWN OR NOTED SEE A

C BEAM TO COL WEB AT TOP OF COL




NOTES:
1. THIS DETAIL ALSO APPLIES TO CONDITIONS WHERE TWO BEAMS THAT DIFFER IN DEPTH BY 12" OR MORE ARE SUPPORTED BY THE OPPOSITE SIDES OF THE GIRDER WEB.
2. MAX COPE HEIGHT SHALL NOT EXCEED LARGER OF BEAM OR GIRDER K-DIMENSION.

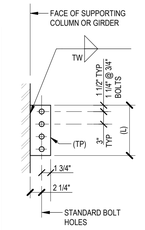
D BEAM TO GIRDER ONE SIDE




NOTES:
FOR ITEMS NOT SHOWN OR NOTED SEE D

E BEAM TO GIRDER EACH SIDE

| CONNECTION SCHEDULE | | | | |
|---|---|---|---|---|
| BEAM/GIRDER SIZE | QTY OF A325N BOLTS, UNO | (L) MIN PL AND WELD LENGTH | (TP) MIN PL THICKNESS | (TW) MIN WELD THICKNESS |
| W8 | (2) 3/4"DIA | 5 1/2" | 3/8" | 1/4" |
| W10 | (2) 3/4"DIA | 6" | 3/8" | 1/4" |
| W12 | (3) 7/8"DIA | 9" | 3/8" | 1/4" |
| W14 | (3) 7/8"DIA | 9" | 3/8" | 1/4" |
| W16 | (4) 7/8"DIA | 12" | 3/8" | 1/4" |
| W18 | (5) 7/8"DIA | 15" | 3/8" | 1/4" |
| W21 | (6) 7/8"DIA | 18" | 3/8" | 1/4" |
| W24 | (6) 7/8"DIA | 18" | 1/2" | 5/16" |
| W27 | (7) 7/8"DIA | 21" | 1/2" | 5/16" |
| W30 | (8) 7/8"DIA | 24" | 1/2" | 5/16" |
| W33 | (9) 7/8"DIA | 27" | 1/2" | 5/16" |
| W36 | (10) 7/8"DIA | 30" | 1/2" | 5/16" |
| W40 | (11) 7/8"DIA | 33" | 1/2" | 5/16" |
| W44 | (12) 7/8"DIA | 36" | 1/2" | 5/16" |




F TYPICAL SHEAR TAB UNO

NOTE:
SEE STEEL LATERAL FORCE RESISTING SYSTEM NOTES FOR BOLT TYPE AT LFRS MEMBER CONNECTIONS, WHERE OCCURS.

## 17 W BEAM TO HSS COL MOMENT CONNECTION

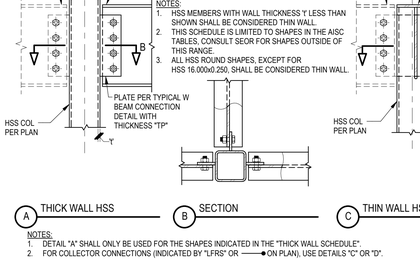
NTS 051200_01-0103



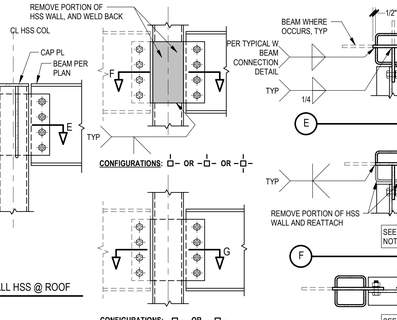

NOTE:
WHERE NUMBER OF REQUIRED BOLTS PER PLAN OR SCHEDULE IS MORE THAN NUMBER OF BOLTS THAT FIT IN ONE ROW, USE MAXIMUM BOLTS IN FIRST ROW & BALANCE IN SECOND ROW (2 BOLTS MIN IN SECOND ROW)

## 13 W BEAM TO W COL & GIRDER CONNECTIONS

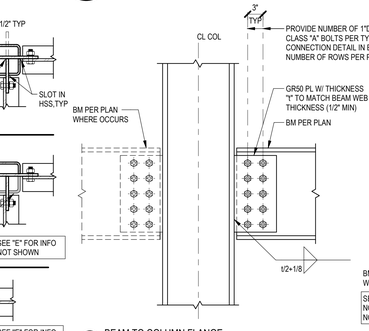
NTS 051200_02-0102



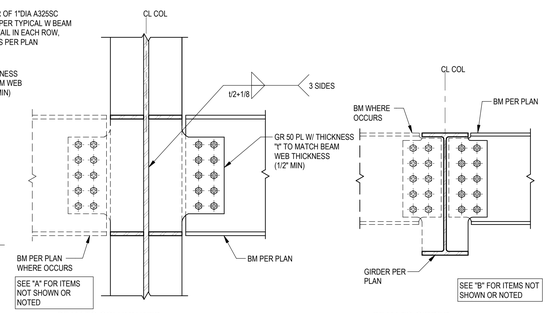

NOTES:
1. SEE PLAN FOR LOCATION, – – – –> ARROW INDICATES LOW END OF ANGLE.
2. WHERE SPACING IS NOT INDICATED ON PLAN, SPACE BRACING EQUALLY ALONG BEAM SPAN.




A CANTILEVER BEAM TO COLUMN FLANGE




B CANTILEVER BEAM TO COLUMN WEB




C CANTILEVER BEAM TO EQUAL DEPTH GIRDER

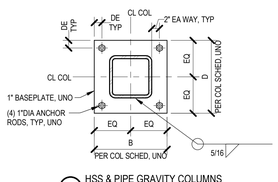
D CANTILEVER BEAM TO UNEQUAL DEPTH GIRDER

## 18 GIRDER SHALLOWER THAN BEAM

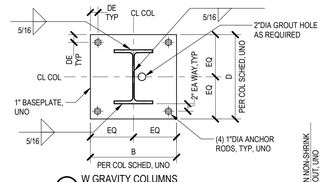
1" = 1'-0"

## 14 BOTTOM FLANGE KICKER

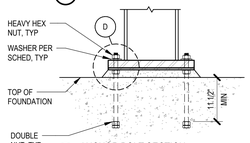
NTS 051200_02-0105




A HSS & PIPE GRAVITY COLUMNS

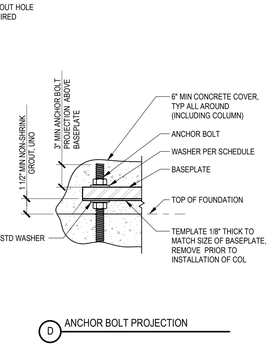



B W GRAVITY COLUMNS




C ANCHOR BOLT SECTION

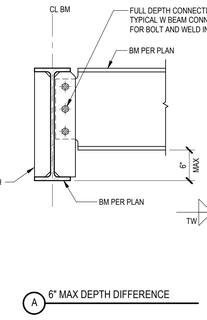
| HOLE, EDGE DISTANCE & WASHER SCHEDULE | | | | |
|---|---|---|---|---|
| BOLT DIAMETER | DE | HOLE DIAMETER | MIN WASHER SIZE | MIN WASHER THICKNESS |
| 3/4" | 1 1/4" | 1 5/16" | 2" | 1/4" |
| 7/8" | 1 7/16" | 1 9/16" | 2 1/2" | 5/16" |
| 1" | 1 5/8" | 1 7/8" | 3" | 3/8" |
| 1 1/4" | 2" | 2 1/8" | 3 1/2" | 1/2" |



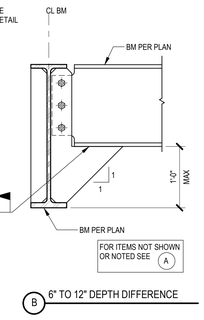

D ANCHOR BOLT PROJECTION

## 10 CANTILEVER CONNECTIONS

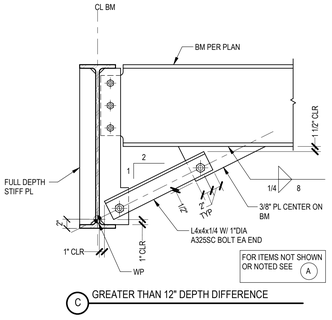
NTS 051200_02-0109




A 6" MAX DEPTH DIFFERENCE




B 6" TO 12" DEPTH DIFFERENCE




C GREATER THAN 12" DEPTH DIFFERENCE

## 15 GRAVITY COLUMN BASEPLATE

NTS 051200_01-0101

| THICK WALL SCHEDULE | |
|---|---|
| HSS SHAPE | MIN 't' |
| HSS2x THRU HSS8x | 1/8" |
| HSS9x THRU HSS12x | 3/16" |
| HSS14x & HSS16x | 1/4" |
| HSS18x & HSS20x | 5/16" |




NOTES:
1. HSS MEMBERS WITH WALL THICKNESS 't' LESS THAN SHOWN SHALL BE CONSIDERED THIN WALL.
2. THIS SCHEDULE IS LIMITED TO SHAPES IN THE AISC TABLES, CONSULT SEOR FOR SHAPES OUTSIDE OF THIS RANGE.
3. ALL HSS ROUND SHAPES, EXCEPT FOR HSS 16.000x0.250, SHALL BE CONSIDERED THIN WALL.

A THICK WALL HSS

B SECTION




C THIN WALL HSS @ ROOF

D THIN WALL HSS @ FLOOR




NOTES:
1. DETAIL "A" SHALL ONLY BE USED FOR THE SHAPES INDICATED IN THE "THICK WALL SCHEDULE".
2. FOR COLLECTOR CONNECTIONS (INDICATED BY "LFRS" OR ——●ON PLAN), USE DETAILS "C" OR "D".

## 16 BEAM TO HSS COLUMN CONNECTION

NTS 051200_01-0102

## 7 BOTTOM FLANGE BRACE

NTS 051200_02-0108




A BEAM TO COLUMN FLANGE




B BEAM TO COLUMN WEB

SEE TYPICAL W BEAM CONNECTION DETAIL FOR INFO NOT SHOWN OR NOTED




C BEAM TO GIRDER

## 8 BEAM CONNECTION WITH SLIP CRITICAL BOLTS

NTS 051200_06-0100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ALTADENA, CA 91001

| | |
|---|---|
| PROJECT NO. | 2111010 |
| DATE: | Issue Date |

SHEET TITLE:

**TYPICAL STRUCTURAL STEEL DETAILS**

SCALE: As indicated


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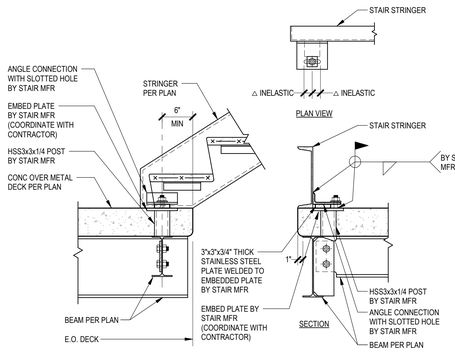
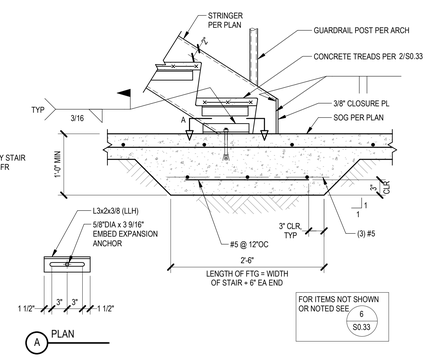
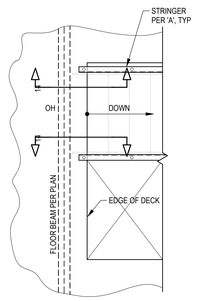



17 UP STRINGER AT FLOOR - ALTERNATE
NTS

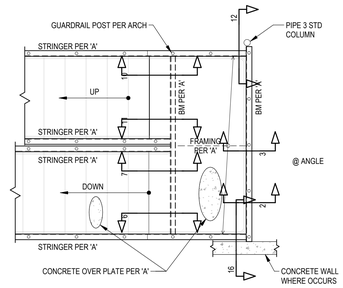



A PLAN

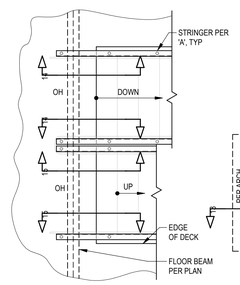
13 STAIR STRINGER FOOTING
NTS 055100-0021



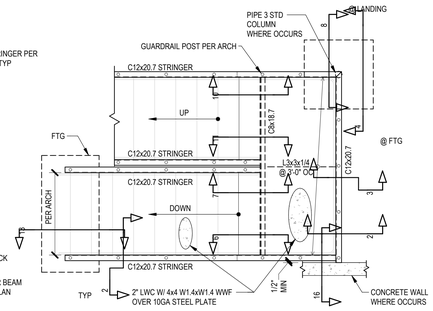

D TOP LEVEL




C INTERMEDIATE LANDING(S)

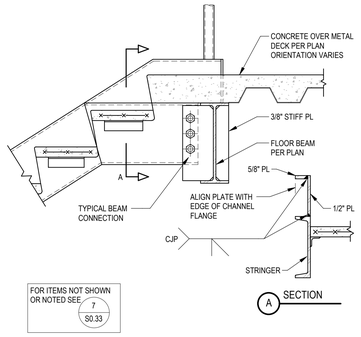



B INTERMEDIATE LEVEL(S)



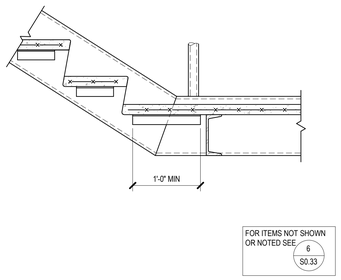

A LOWEST LEVEL & LANDING

9 STAIR FRAMING PLAN
NTS 055100-0001

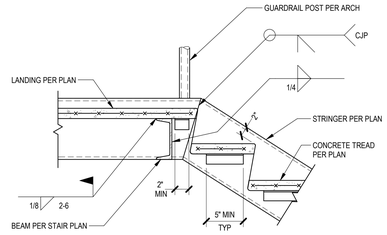



A SECTION

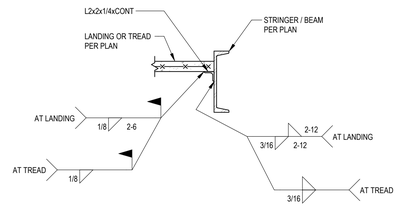
14 DOWN STRINGER AT FLOOR
NTS 055100-0026



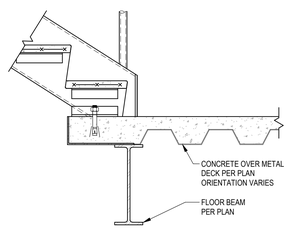

10 OUTSIDE UP STRINGER AT LANDING
NTS 055100-0024



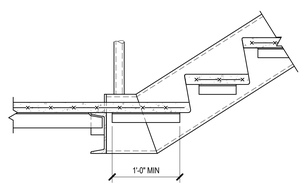

6 OUTSIDE DOWN STRINGER AT LANDING
NTS 055100-0022



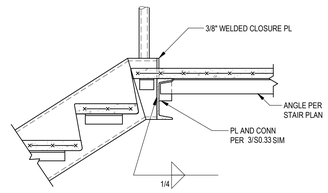

2 LANDING & TREAD SUPPORT
NTS 055100-0011



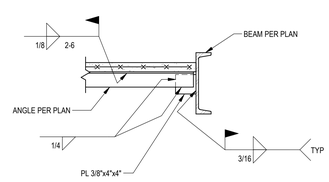

15 UP STRINGER AT FLOOR
NTS 055100-0027



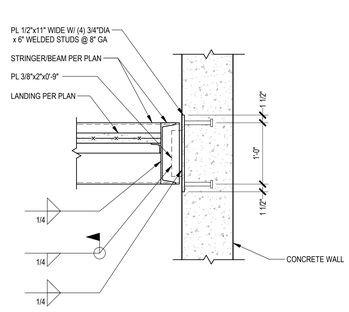

11 INSIDE UP STRINGER AT LANDING
NTS 055100-0025



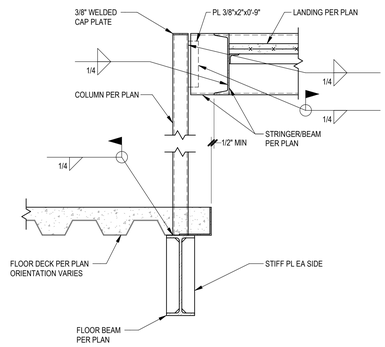

7 INSIDE DOWN STRINGER AT LANDING
NTS 055100-0023



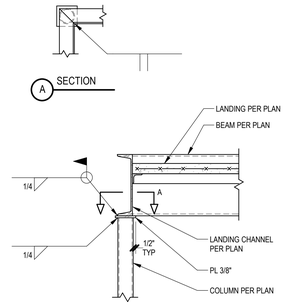

3 LANDING ANGLE CONNECTION
NTS 055100-0012



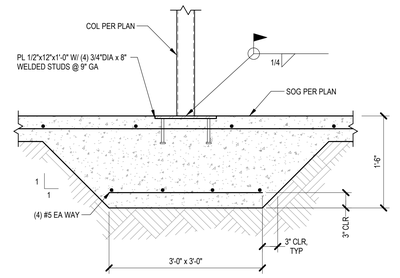

16 STRINGER AT CONCRETE WALL
NTS 055100-0041




12 STAIR COLUMN AT FLOOR
NTS 055100-0033




8 STAIR COLUMN AT LANDING
NTS 055100-0032




4 STAIR COLUMN FOOTING
NTS 055100-0031

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**TYPICAL STEEL STAIR DETAILS**

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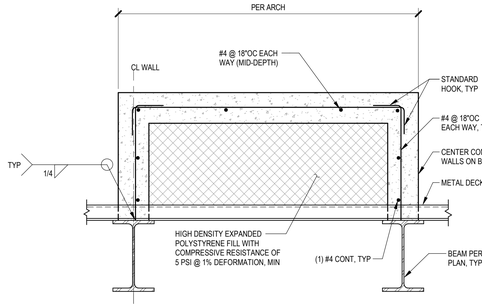
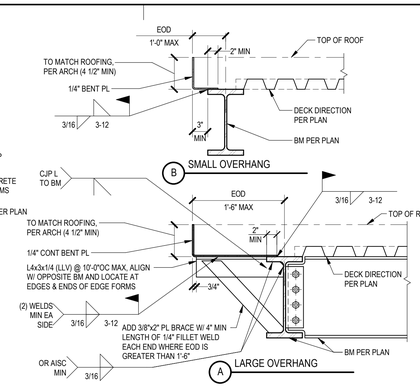


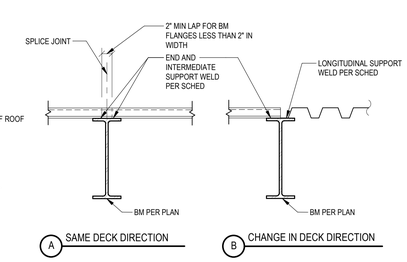

## 13 RAISED PAD ON UNTOPPED METAL DECK

NTS 053123-0102



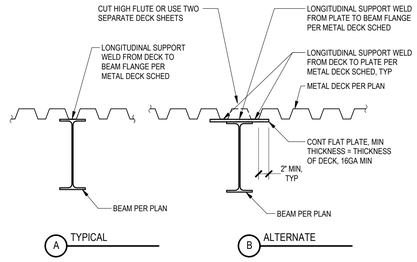

## 9 EDGE OF UNFILLED METAL DECK

NTS 053123-0102



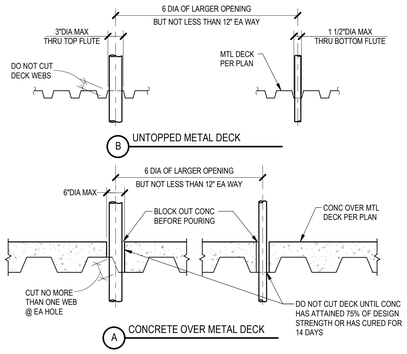

## 5 METAL DECK SPLICE

NTS 053000-0100



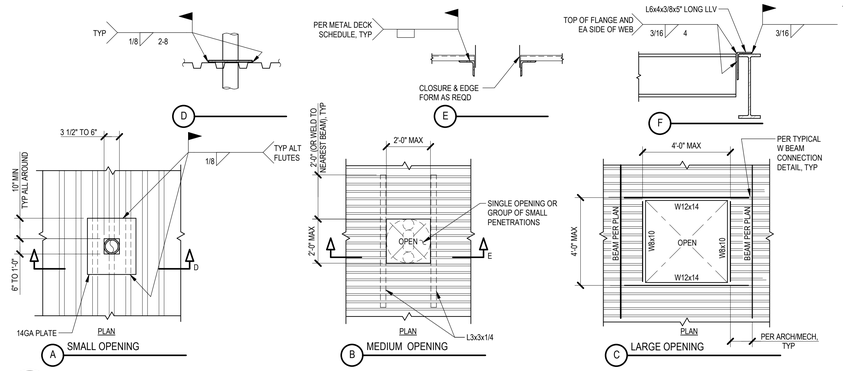

## 1 DECK PARALLEL TO BEAM

NTS 053123-0101



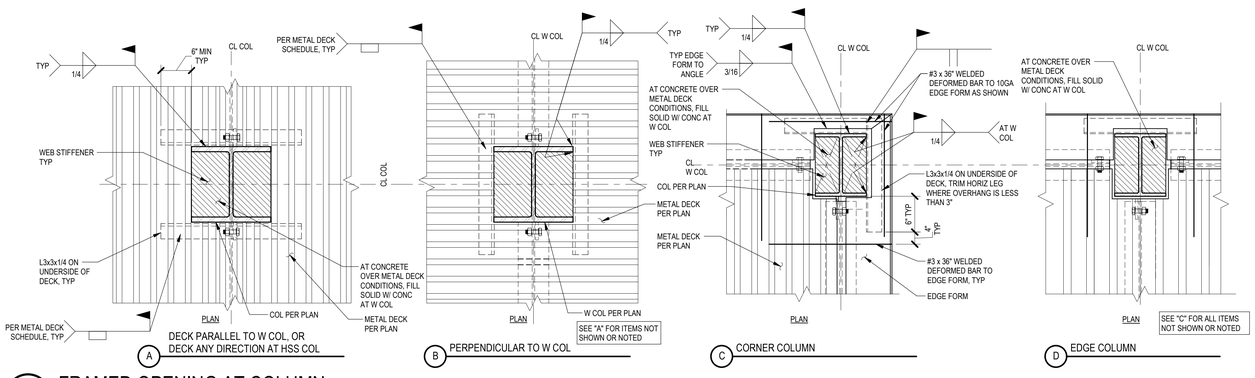

## 10 PENETRATIONS IN METAL DECK

NTS 053000-0101



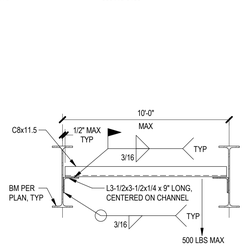

## 6 OPENINGS IN METAL DECK

NTS 053123-0100




## 11 FRAMED OPENING AT COLUMN

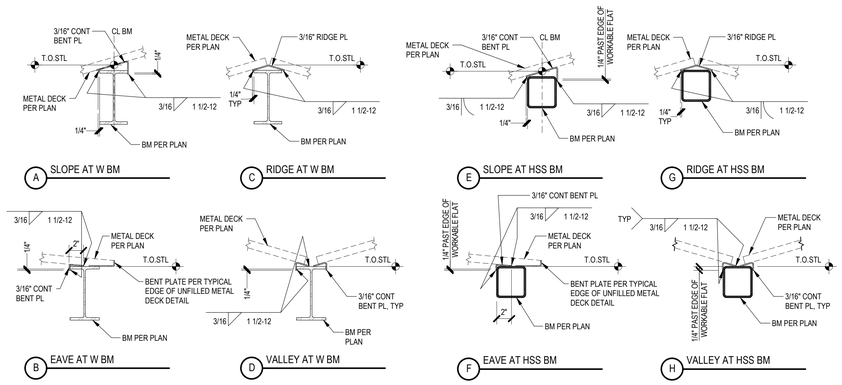
NTS 053113-0105




NOTES:
1. MULTIPLE CHANNELS WITH A SUPPORTED LOAD EXCEEDING 50 LBS SHALL BE SPACED AT 1'-0" MIN. TOTAL LOAD PER BEAM SHALL NOT EXCEED 1000 LBS.
2. LOAD TO HANG FROM STEEL DECK WITHOUT CHANNEL SUPPORT SHALL NOT EXCEED 150 LBS PER SHEET OF DECK PER SPAN. MINIMUM SPACING BETWEEN ANCHORS SUPPORTING GREATER THAN 20 POUNDS SHALL BE 1'-0" MIN.
3. LAYOUTS AND CONNECTIONS TO DECK IN ACCORDANCE WITH OSHPD OPM OR SMACNA DESIGNED BY OTHERS IS ACCEPTABLE IN LIEU OF THE DETAILS ABOVE.

## 12 HANGER SUPPORT AT BEAMS

NTS 053123-0105




## 8 SLOPED DECK TO BEAM

NTS 053123-0103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|---|---|
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**TYPICAL METAL DECK DETAILS**

SCALE: 1" = 1'-0"


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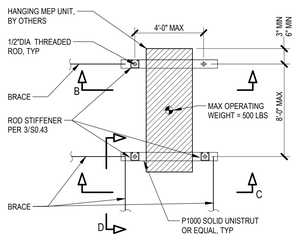
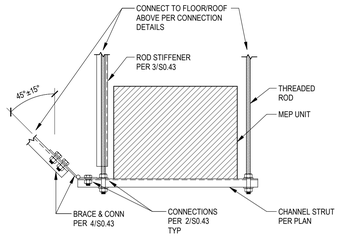
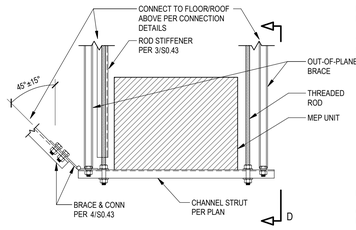


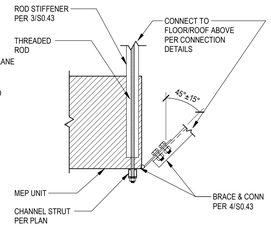

A PLAN




B SECTION




C SECTION

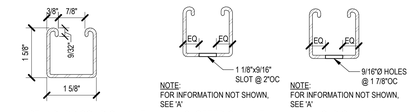



D SECTION

NOTES:
1. THIS DETAIL MAY BE USED FOR SIMILAR HANGING EQUIPMENT.
2. SEE MEP PLANS FOR ALL HANGING EQUIPMENT LOCATIONS.
3. PROVIDE POSITIVE ATTACHMENT FROM UNIT TO STRUT PER MANUFACTURER'S RECOMMENDATION.

## 13 HANGING MEP UNIT SUPPORT

NTS 054300-0201




A STANDARD SOLID CHANNEL

B SLOTTED CHANNEL

NOTE:
FOR INFORMATION NOT SHOWN, SEE 'A'

C HOLD CHANNEL

NOTE:
FOR INFORMATION NOT SHOWN, SEE 'A'

D DEEP SOLID CHANNEL

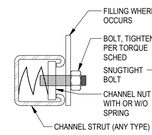
NOTE:
FOR INFORMATION NOT SHOWN, SEE 'A'

E DOUBLE SOLID CHANNEL

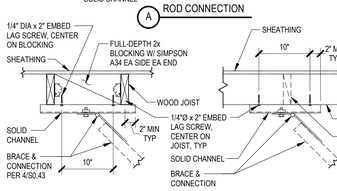
NOTE:
1. THICKNESS SHALL BE 12GA (0.105").
2. USE SLOTTED CHANNEL OR CHANNEL W/ HOLES ONLY WHERE INDICATED.
3. SLOTS AND HOLES ARE APPLICABLE FOR ALL CHANNEL TYPES.

## 1 STANDARD CHANNEL STRUT SECTIONS

NTS 054300-0001



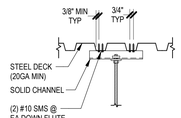

A ROD CONNECTION



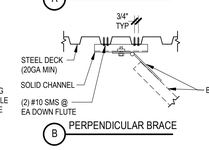

B BRACE PERPENDICULAR

C BRACE PARALLEL

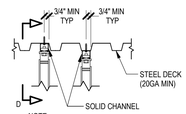
NOTE:
MAXIMUM LOAD = 250 LBS




A ROD CONNECTION

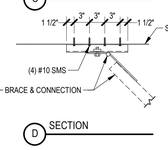



B PERPENDICULAR BRACE



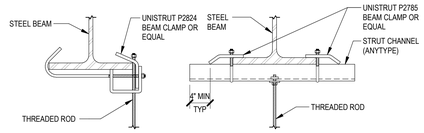

NOTE:
STRUT CONNECTION THE BRACE MAY BE INSTALLED IN THE UPPER OR LOWER FLUTE

C PARALLEL BRACE



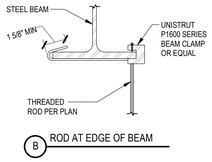

D SECTION

NOTE:
LOAD HANGING FROM STEEL DECK SHALL NOT EXCEED 150 LBS PER SHEET OF DECK PER SPAN. MIN SPACING BETWEEN ANCHORS SUPPORTING GREATER THAN 20 POUNDS SHALL BE 1-0".




A ROD OFF EDGE OF BEAM

C ROD UNDER BEAM




B ROD AT EDGE OF BEAM

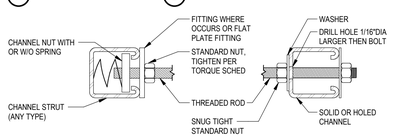
NOTES:
1. ALSO APPLIES TO OPEN-WEB STEEL JOISTS
2. MAXIMUM LOAD = 250 LBS

| TORQUE SCHEDULE | |
|---|---|
| BOLT DIAMETER | APPLIED TORQUE |
| 5/16" | 11 FT-LBS |
| 3/8" | 19 FT-LBS |
| 1/2" | 50 FT-LBS |
| 5/8" | 100 FT-LBS |
| 3/4" | 125 FT-LBS |




A BOLT AT OPEN FACE

B BOLT AT CLOSED FACE

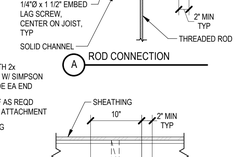



C ROD AT OPEN FACE

D ROD AT CLOSED FACE

## 14 CONNECTION TO WOOD STUD JOISTS

NTS 054300-0105




A ROD CONNECTION




B BRACE PERPENDICULAR

C BRACE PARALLEL

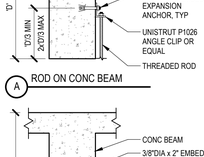
NOTE:
MAXIMUM LOAD = 250 LBS

## 15 CONNECTION TO WOOD I-JOISTS

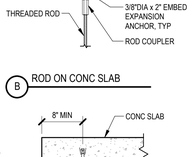
NTS 054300-0106

## 10 CONNECTION TO METAL DECK

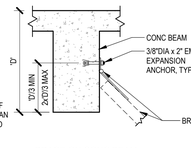
NTS 054300-0103



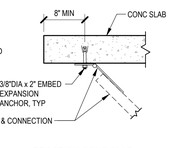

A ROD ON CONC BEAM




B ROD ON CONC SLAB




C BRACE ON CONC BEAM




D BRACE ON CONC SLAB

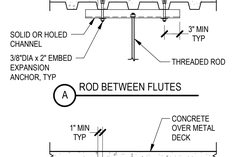
NOTE:
MAXIMUM LOAD = 250 LBS

## 11 CONNECTION TO CONCRETE

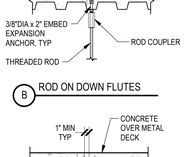
NTS 054300-0104

## 6 CONNECTION TO STEEL BEAM

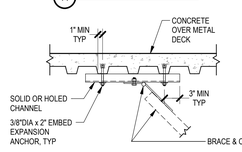
NTS 054300-0101



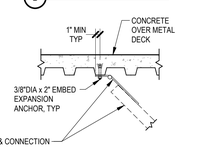

A ROD BETWEEN FLUTES




B ROD ON DOWN FLUTES




C BRACE BETWEEN FLUTES




D BRACE ON DOWN FLUTE

NOTE:
MAXIMUM LOAD = 250 LBS

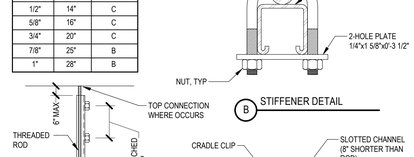
## 7 CONN TO CONCRETE OVER METAL DECK

NTS 054300-0102

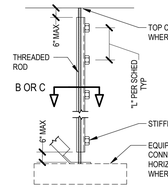
## 2 BOLT / THREADED ROD CONNECTIONS

NTS 054300-0002

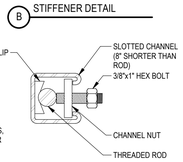
| ROD STIFFENER SCHEDULE | | |
|---|---|---|
| ROD Ø | 'L' MAX | PERMITTED DETAIL |
| 3/8" | 10" | C |
| 1/2" | 14" | C |
| 5/8" | 16" | C |
| 3/4" | 20" | C |
| 7/8" | 25" | B |
| 1" | 28" | B |




B STIFFENER DETAIL



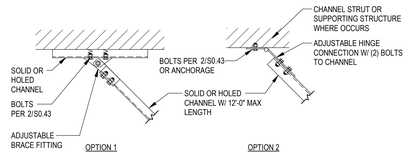

A ROD STIFFENER




C STIFFENER DETAIL

## 3 ROD STIFFENER

NTS 054300-0003




## 4 BRACING CONNECTION

NTS 054300-0004


ANDERSON BRULÉ ARCHITECTS
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San Jose, California 95113
408.298.1885 | www.aba-arch.com


CONSULTANTS LOGO

miyamoto.

5550 Baltimore Drive, Suite 100
La Mesa, CA 91942
MI22280001.00 – v20

T: (833) 270-8648
miyamotointernational.com

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| NO. | DATE | REVISIONS |
|---|---|---|
| | 11/15/2023 | 100% Design Development |

PROJECT TITLE:

# Altadena Main Library

600 E MARIPOSA STREET
ALTADENA, CA 91001

| | |
|---|---|
| PROJECT NO. | 2111010 |
| DATE: | Issue Date |

SHEET TITLE:

**TYPICAL CHANNEL STRUT DETAILS**

SCALE: As indicated


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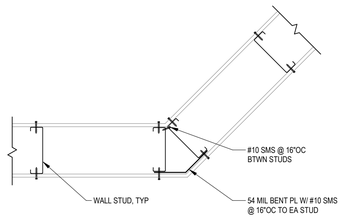
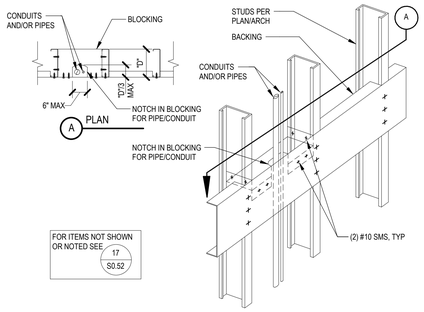



PLAN

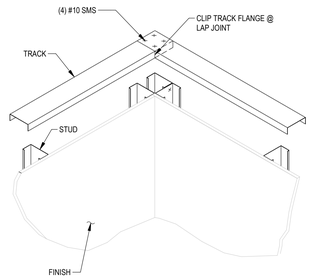
## 13 ANGLED WALL

NTS 054000-02-0106



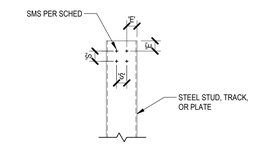

## 9 NOTCHED BACKING REINFORCEMENT

NTS 054000-02-0103




## 5 WALL FRAMING AT CORNER

NTS 054000-01-0106




| SHEET METAL SCREW SCHEDULE | | | |
|---|---|---|---|
| SCREW DESIGNATION | SCREW DIAMETER | MIN EDGE DISTANCE 'E' | MIN SPACING 'S' |
| #8 | 0.164" | 1/4" | 1/2" |
| #10 | 0.190" | 3/8" | 5/8" |
| #12 | 0.216" | 3/8" | 3/4" |
| #14 OR 1/4" | 0.250" | 1/2" | 1" |

NOTE:
USE THE LARGER OF THE DIMENSIONS IN THIS TABLE AND THE DIMENSIONS IN THE SCREW'S THIRD PARTY EVALUATION REPORT.

## 1 SCREW EDGE DISTANCE & SPACING

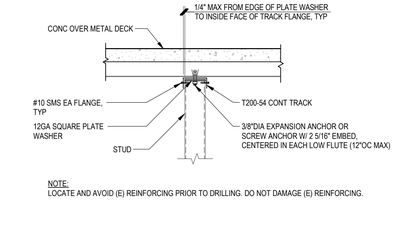
NTS 054000-02-0100




NOTE:
STIFFENER MAY BE LOCATED ON THE BACK OF THE STUD OR WITHIN THE CHANNEL OF THE STUD.

## 14 WEB STIFFENER

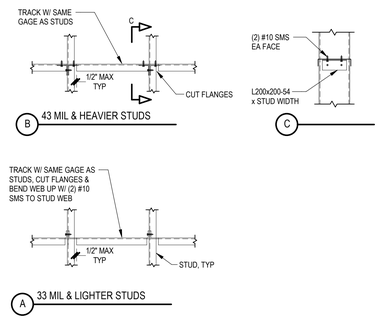
NTS 054000-02-0107




NOTE:
LOCATE AND AVOID (E) REINFORCING PRIOR TO DRILLING. DO NOT DAMAGE (E) REINFORCING.

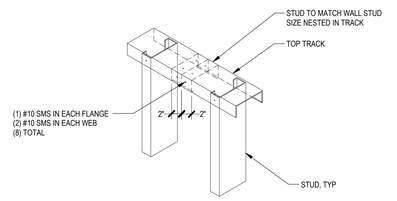
## SUSPENDED SOFFIT WALL TO CONCRETE OVER METAL DECK - WALL PERPENDICULAR TO FLUTES

NTS 054000-02-0109



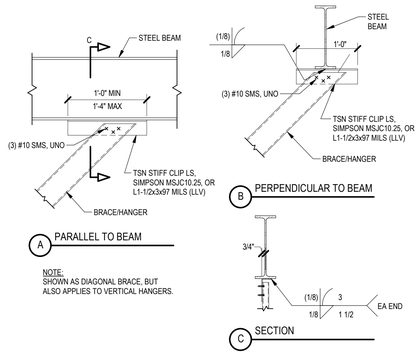

## 6 METAL STUD BLOCKING

NTS 054000-02-0101




## 2 TOP TRACK SPLICE

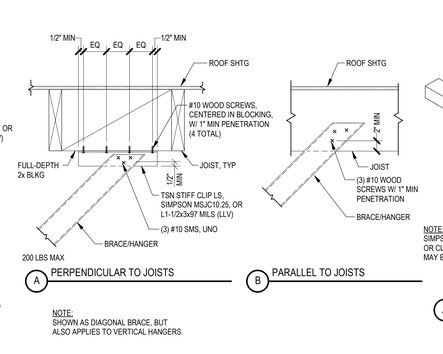
NTS 054000-02-0102




NOTE:
SHOWN AS DIAGONAL BRACE, BUT ALSO APPLIES TO VERTICAL HANGERS.

## 15 BRACE/HANGER TO STEEL BEAM

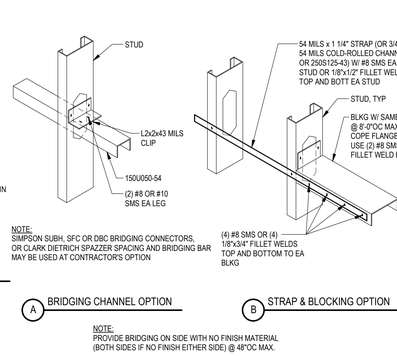
NTS 054000-02-113




NOTE:
SHOWN AS DIAGONAL BRACE, BUT ALSO APPLIES TO VERTICAL HANGERS.

## 11 BRACE/HANGER TO WOOD STUD JOISTS

NTS 054000-02-0111

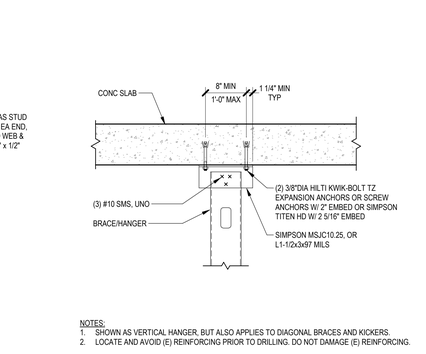



NOTE:
SIMPSON SUBH, SFC OR DBC BRIDGING CONNECTORS, OR CLARK DIETRICH SPAZZER SPACING AND BRIDGING BAR MAY BE USED AT CONTRACTOR'S OPTION

NOTE:
PROVIDE BRIDGING ON SIDE WITH NO FINISH MATERIAL (BOTH SIDES IF NO FINISH EITHER SIDE) @ 48"OC MAX.

## 7 STEEL STUD FLANGE BRIDGING

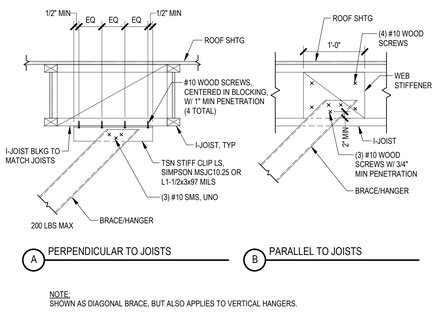
NTS 054000-01-0108




NOTES:
1. SHOWN AS VERTICAL HANGER, BUT ALSO APPLIES TO DIAGONAL BRACES AND KICKERS.
2. LOCATE AND AVOID (E) REINFORCING PRIOR TO DRILLING. DO NOT DAMAGE (E) REINFORCING.

## 3 BRACE/HANGER TO CONCRETE SLAB

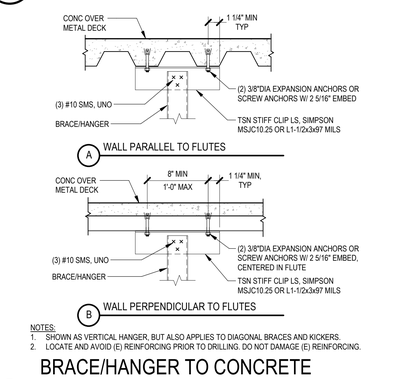
NTS 054000-02-0123




NOTE:
SHOWN AS DIAGONAL BRACE, BUT ALSO APPLIES TO VERTICAL HANGERS.

## 12 BRACE/HANGER TO WOOD I-JOISTS

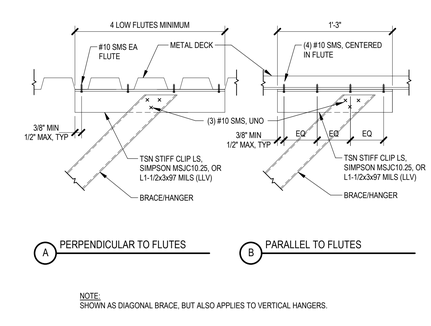
NTS 054000-02-0112




NOTES:
1. SHOWN AS VERTICAL HANGER, BUT ALSO APPLIES TO DIAGONAL BRACES AND KICKERS.
2. LOCATE AND AVOID (E) REINFORCING PRIOR TO DRILLING. DO NOT DAMAGE (E) REINFORCING.

## 8 BRACE/HANGER TO CONCRETE OVER METAL DECK

NTS 054000-02-0109




NOTE:
SHOWN AS DIAGONAL BRACE, BUT ALSO APPLIES TO VERTICAL HANGERS.

## 4 BRACE/HANGER TO METAL DECK

NTS 054000-02-0108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| | 11/15/2023 | 100% Design Development |

PROJECT TITLE:

Altadena Main Library

600 E MARIPOSA STREET
ALTADENA, CA 91001

| | |
|---|---|
| PROJECT NO. | 2111010 |
| DATE: | Issue Date |

SHEET TITLE:

**TYPICAL COLD-FORMED STEEL DETAILS**

SCALE: As indicated


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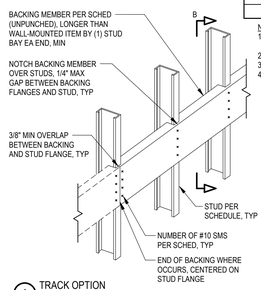
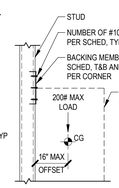
| STUD SPACING | MIN STUD SIZE | BACKING MEMBER | NO OF SMS |
|---|---|---|---|
| 12" | 362S162-43 | 362T150-54 | 4 |
| 16" | 362S162-54 | 400T150-54 | 4 |
| 24" | 362S162-54 | 600T150-54 | 4 |

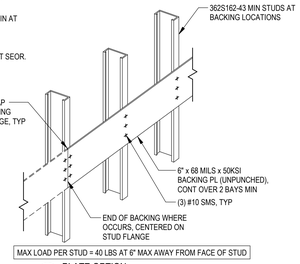
NOTES:
1. STUD FLANGE WIDTH AND THICKNESS SHOWN SHALL BE MIN AT LARGER DEPTH STUDS.
2. DO NOT OVERCUT FLANGES OF BACKING.
3. 16'-0" MAX STUD HEIGHT.
4. FOR CONDITIONS NOT COVERED BY THIS DETAIL, CONTACT SEOR.




A TRACK OPTION




B SECTION

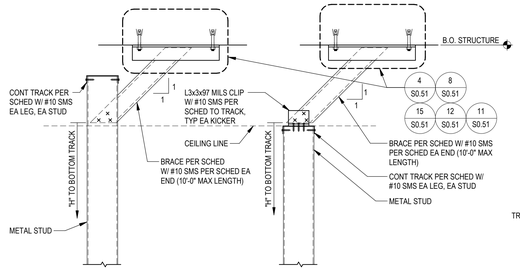



MAX LOAD PER STUD = 40 LBS AT 6" MAX AWAY FROM FACE OF STUD

C PLATE OPTION

## 17 WALL-HUNG ITEM BACKING

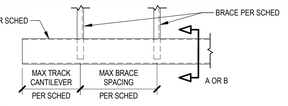
NTS 054000-01-0107




A FRAMED ABOVE CEILING

B FRAMED TO CEILING

| BRACE AND CONNECTION SCHEDULE | | | | | | |
|---|---|---|---|---|---|---|
| STUD SIZE | MAX BRACE SPACING | MAX HEIGHT "H" | MAX TRACK CANTILEVER | MIN TRACK SIZE | MIN BRACE SIZE | SCREWS |
| 250S | 5'-6" | 10'-0" | 2'-0" | 250T125-30 | 362T125-43 | (3) #10 SMS |
| | 4'-0" | 16'-0" | 2'-0" | 250T125-30 | 362T125-33 | (2) #10 SMS |
| 362S | 6'-6" | 10'-0" | 3'-0" | 362T125-30 | 362T125-43 | (3) #10 SMS |
| | 5'-5" | 16'-0" | 2'-0" | 362T125-33 | 362T125-43 | (3) #10 SMS |
| 400S | 7'-0" | 10'-0" | 3'-0" | 400T125-30 | 362T125-33 | (2) #10 SMS |
| | 7'-0" | 18'-0" | 3'-0" | 400T125-43 | 362T125-43 | (3) #10 SMS |
| 600S | 6'-6" | 10'-0" | 3'-0" | 600T125-30 | 362T125-43 | (3) #10 SMS |
| | 8'-0" | 20'-0" | 4'-0" | 600T125-43 | 362T125-43 | (4) #10 SMS |
| 800S | 10'-0" | 10'-0" | 6'-0" | 800T125-43 | 362T125-43 | (3) #10 SMS |
| | 8'-6" | 20'-0" | 4'-0" | 800T125-43 | 362T125-54 | (5) #10 SMS |



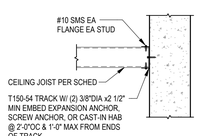

C PLAN

## 18 NON-BEARING WALL DIAGONAL KICKER

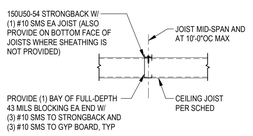
NTS 054000-01-0109

| MAX CEILING JOIST SPAN SCHEDULE | | | | | | |
|---|---|---|---|---|---|---|
| 16" SPACING | | | | | | |
| STUD THK | MEMBER SIZE | | | | | |
| | NO STRONGBACK | | | WITH STRONGBACK | | |
| | 362S137 | 400S137 | 600S137 | 362S137 | 400S137 | 600S137 |
| 43 MILS | 11'-7" | 12'-0" | 13'-5" | 16'-7" | 17'-0" | 19'-3" |
| 33 MILS | 10'-7" | 10'-11" | 12'-5" | 15'-2" | 15'-7" | 17'-10" |
| 30 MILS | 10'-3" | 10'-7" | 12'-0" | 14'-8" | 15'-1" | 17'-3" |
| 27 MILS | 9'-11" | 10'-3" | 11'-9" | 14'-3" | 14'-8" | 16'-9" |
| 24" SPACING | | | | | | |
| STUD THK | MEMBER SIZE | | | | | |
| | NO STRONGBACK | | | WITH STRONGBACK | | |
| | 362S137 | 400S137 | 600S137 | 362S137 | 400S137 | 600S137 |
| 43 MILS | 10'-4" | 10'-9" | 12'-0" | 14'-9" | 15'-2" | 17'-4" |
| 33 MILS | 9'-6" | 9'-10" | 11'-2" | 13'-6" | 13'-11" | 16'-0" |
| 30 MILS | 9'-2" | 9'-6" | 10'-10" | 13'-0" | 13'-5" | 15'-6" |
| 27 MILS | 8'-11" | 9'-2" | 10'-6" | 12'-6" | 13'-0" | 15'-0" |

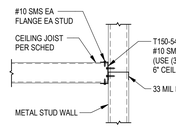
NOTE:
THIS SCHEDULE IS APPLICABLE FOR (1) LAYER OF GYPBOARD PER ARCH (6 PSF MAX) AND L/240 MAX DEFLECTION CRITERIA.



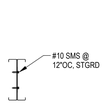

A AT CONCRETE/CMU WALL



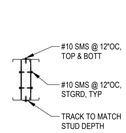

C STRONGBACK



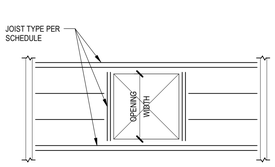

B AT STUD WALL




D DOUBLE JOIST




E TRIPLE JOIST

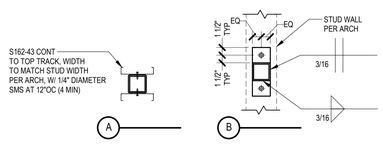



| OPENING SUPPORT SCHEDULE | | |
|---|---|---|
| OPENING WIDTH | JOIST TYPE | CONNECTION TYPE |
| 16" MAX | SINGLE JOIST | (1) SIMPSON L50 |
| 32" MAX | DOUBLE JOIST | (1) SIMPSON L50 |
| 48" MAX | TRIPLE JOIST | (2) SIMPSON L50 |

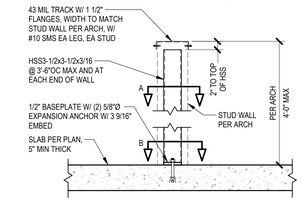
F TYPICAL OPENING FRAMING PLAN

## 19 INTERIOR CEILING JOIST SCHEDULE & DETAILS

NTS 054000-02-0118

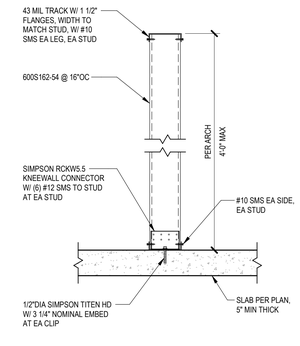



A B



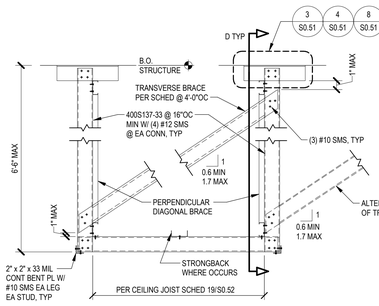

## 20 PARTIAL HEIGHT INT PARTITION - HSS

1" = 1'-0"

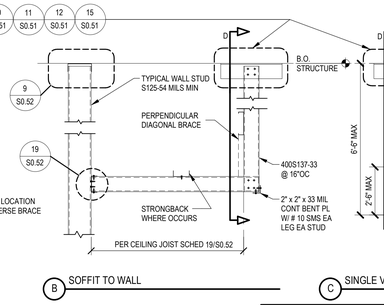



## 16 PARTIAL HEIGHT INT PARTITION - STUDS

1" = 1'-0"



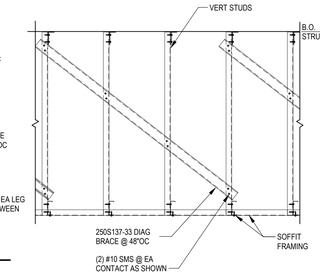

A HANGING SOFFIT




B SOFFIT TO WALL

C SINGLE VERT STUD SOFFIT

| SOFFIT BRACE SCHEDULE | |
|---|---|
| BRACE | MAX SPAN |
| E 362S137-33 | 10'-0" |
| F (2) 362S137-43 FASTENED TOGETHER W/ #10 SMS @ 12"OC | 18'-6" |

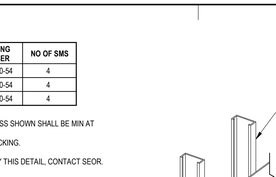



D DIAGONAL WALL SOFFIT BRACE

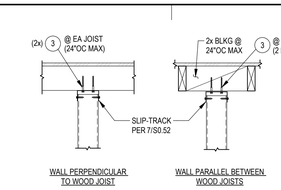
NOTES:
1. THIS DETAIL IS APPLICABLE FOR (1) LAYER OF GYPBOARD MAX ON EACH FACE OF WALL.
2. SOFFITS ARE NOT DESIGNED TO CARRY CABLE TRAYS, DUCT WORK, OR OTHER ITEMS.

## 12 SOFFIT FRAMING

NTS 054000-02-0115

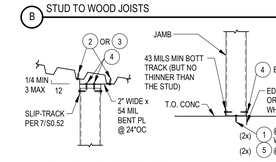



B STUD TO WOOD JOISTS




NOTE: COMPOSITE DECK SHOWN, BUT ALSO APPLICABLE TO BARE METAL DECK

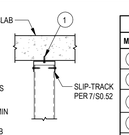
F STUD TO METAL DECK




C CONDITION @ SLOPED DECK

D BOTTOM OF JAMB

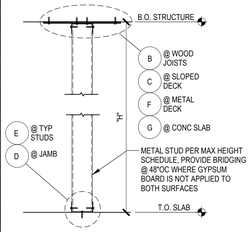
E BOTTOM OF STUD




G STUD TO CONC SLAB

| METAL STUD FASTENER SCHEDULE | |
|---|---|
| MARK | FASTENER SIZE & SPACING |
| 1 | PDF @ 16"OC W/ 1 1/4" MIN PENETRATION |
| 2 | PDF W/ 1 1/4" MIN PENETRATION @ DECK W/ CONC OR #10 SMS @ MTL DECK |
| 3 | #10 WOOD SCREW W/ 2" EMBED |
| 4 | #10 SHEET METAL SCREW (SMS) |
| 5 | 3/8"DIA x 2" EMBED SCREW ANCHOR @ 16"OC |

| MAX HEIGHT "H" STUD SCHEDULE | | | | | |
|---|---|---|---|---|---|
| 12" SPACING | | | | | |
| STUD THK | STUD SIZE | | | | |
| | 250S125 | 362S125 | 400S125 | 600S125 | 800S125 |
| 68 MILS | 16'-4" | 21'-11" | 23'-9" | 33'-0" | 42'-0" |
| 54 MILS | 15'-4" | 20'-6" | 22'-2" | 30'-9" | 38'-9" |
| 43 MILS | 14'-4" | 19'-2" | 20'-8" | 28'-9" | 36'-1" |
| 33 MILS | 13'-2" | 17'-7" | 19'-0" | 26'-2" | 32'-8" |
| 30 MILS | 12'-9" | 17'-0" | 18'-5" | 25'-2" | - |
| 27 MILS | 12'-4" | 16'-5" | 17'-9" | - | - |
| 18 MILS | 10'-6" | 14'-1" | - | - | - |
| 16" SPACING | | | | | |
| STUD THK | STUD SIZE | | | | |
| | 250S125 | 362S125 | 400S125 | 600S125 | 800S125 |
| 68 MILS | 14'-10" | 19'-11" | 21'-7" | 30'-0" | 38'-2" |
| 54 MILS | 13'-11" | 18'-7" | 20'-1" | 27'-11" | 35'-2" |
| 43 MILS | 13'-0" | 17'-7" | 18'-10" | 26'-1" | 32'-9" |
| 33 MILS | 12'-0" | 16'-0" | 17'-3" | 23'-9" | 28'-8" |
| 30 MILS | 11'-7" | 15'-5" | 16'-8" | 22'-11" | - |
| 27 MILS | 11'-3" | 14'-11" | - | - | - |
| 18 MILS | 9'-7" | - | - | - | - |
| 24" SPACING | | | | | |
| STUD THK | STUD SIZE | | | | |
| | 250S125 | 362S125 | 400S125 | 600S125 | 800S125 |
| 68 MILS | 13'-0" | 17'-5" | 18'-10" | 26'-2" | 33'-4" |
| 54 MILS | 12'-2" | 16'-3" | 17'-7" | 24'-6" | 30'-9" |
| 43 MILS | 11'-5" | 15'-2" | 16'-5" | 22'-10" | 28'-8" |
| 33 MILS | 10'-6" | 13'-11" | 15'-1" | 20'-6" | 23'-5" |
| 30 MILS | 10'-2" | 13'-6" | 14'-7" | 19'-0" | - |
| 27 MILS | 9'-10" | - | - | - | - |
| 18 MILS | - | - | - | - | - |

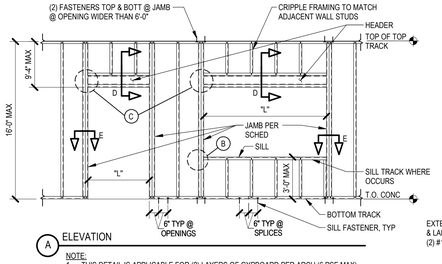



A STUD WALL SECTION

NOTES:
1. THIS SCHEDULE IS APPLICABLE FOR (2) LAYERS OF GYPBOARD PER ARCH (6 PSF MAX) AND L/240 MAX DEFLECTION CRITERIA.
2. STUDS SUPPORTING EQUIPMENT OR CASEWORK WEIGHING 40 LBS OR MORE SHALL BE 362S125 MIN & 54 MILS THICK MIN, UNO.

## 9 INTERIOR NON-BEARING STUD WALLS

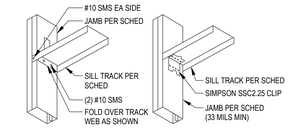
NTS 054000-01-0101



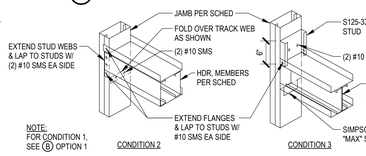

A ELEVATION

NOTE:
1. THIS DETAIL IS APPLICABLE FOR (2) LAYERS OF GYPBOARD PER ARCH (6 PSF MAX).

| SCHEDULE | | | | | | | |
|---|---|---|---|---|---|---|---|
| MAX OPENING WIDTH "L" | CONDITION | MIN SILL TRACK SIZE | MIN HEADER TRACK SIZE | MIN HEADER STUD SIZE | MIN JAMB SIZE | | |
| | | | | | SINGLE STUD | WELDED DOUBLE | BUILT-UP |
| 4'-0" | 1 | T125-27 | T250-68 | - | S250-54 | (2) S125-33 | S125-33 & T125-33 |
| 8'-0" | 2 OR 3 | T125-27 | T125-33 | 400S162-43 | S350-54 | (2) S137-43 | S137-43 & T125-43 |
| 12'-0" | 2 OR 3 | T125-43 | T125-43 | 600S162-43 | S350-97 | (2) S137-54 | S137-54 & T125-54 |

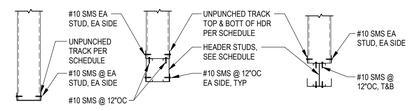



B SILL TRACK CONNECTION

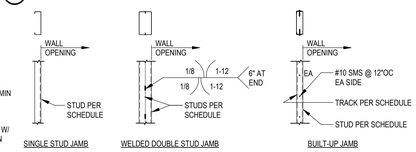



NOTE:
FOR CONDITION 1, SEE B OPTION 1

C HEADER CONNECTION




D HEADER




E JAMB

## 10 INTERIOR NON-BEARING WALL OPENING FRAMING

NTS 054000-01-0100




A AT CONCRETE/CMU WALL




C STRONGBACK




B AT STUD WALL




D DOUBLE JOIST




E TRIPLE JOIST




| OPENING SUPPORT SCHEDULE | | |
|---|---|---|
| OPENING WIDTH | JOIST TYPE | CONNECTION TYPE |
| 16" MAX | SINGLE JOIST | (1) SIMPSON L50 |
| 32" MAX | DOUBLE JOIST | (1) SIMPSON L50 |
| 48" MAX | TRIPLE JOIST | (2) SIMPSON L50 |

F TYPICAL OPENING FRAMING PLAN

## 7 DEFLECTION TRACK ASSEMBLY

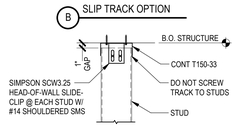
NTS 054000-01-0105




A DEEP LEG DEFLECTION TRACK OPTION

B SLIP TRACK OPTION

| TRACK THICKNESS | MAX WALL HEIGHT "H" |
|---|---|
| 33 MILS | 15'-0" |
| 43 MILS | 24'-6" |

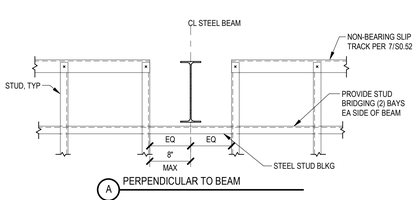



C SLIP CLIP OPTION

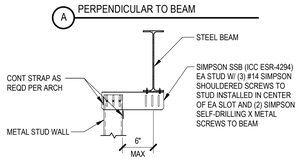
NOTES:
1. GAP TO BE MEASURED AFTER CONCRETE IS CAST ON DECK, WHERE OCCURS.
2. SCREWS SHALL BE CENTERED VERTICALLY IN SLOTS.
3. PROVIDE GAP BETWEEN THE STRUCTURE ABOVE AND THE TOP OF GYPBOARD, WHERE OCCURS.

## 3 TOP OF WALL AT STEEL BEAM

NTS 054000-02-0116




A PERPENDICULAR TO BEAM




B PARALLEL TO BEAM

ANDERSON BRULÉ ARCHITECTS

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San Jose, California 95113
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miyamoto.

5550 Baltimore Drive, Suite 100
La Mesa, CA 91942
M022800:01.00 - v20

T: (833) 270-8648
miyamotointernational.com

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| NO. | DATE | REVISIONS |
|---|---|---|
| | 11/15/2023 | 100% Design Development |

PROJECT TITLE:

Altadena Main Library

600 E MARIPOSA STREET
ALTADENA, CA 91001

PROJECT NO. 2111010

DATE: Issue Date

SHEET TITLE:

**TYPICAL INTERIOR COLD-FORMED STEEL DETAILS**

SCALE: As indicated

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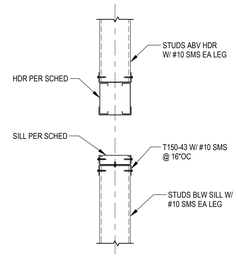
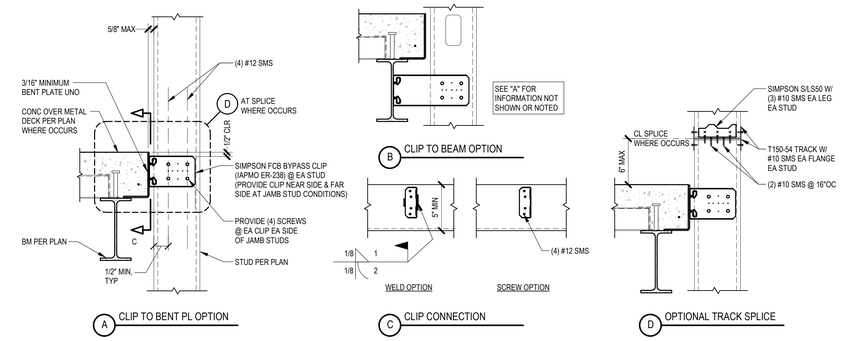


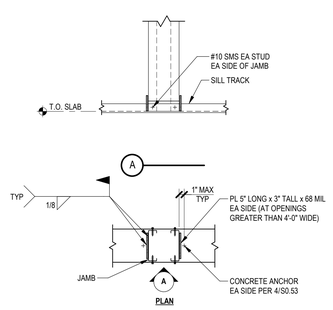

## 9 WALL STUD CONN TO HEADER/SILL

NTS 054000-01-0115



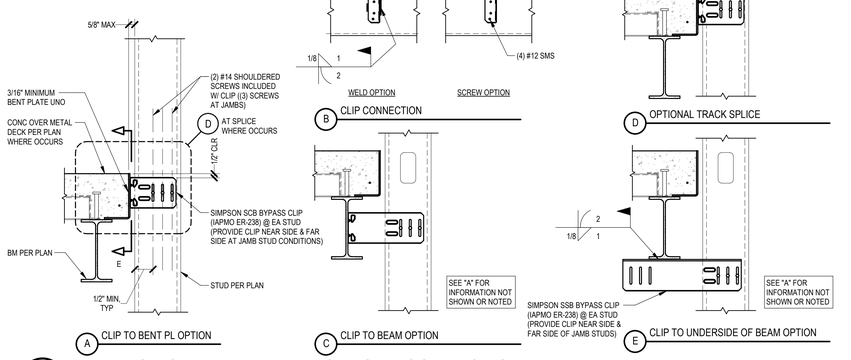

## 5 EXTERIOR STUD WALL FIXED CONNECTION

NTS 054000-01-0110



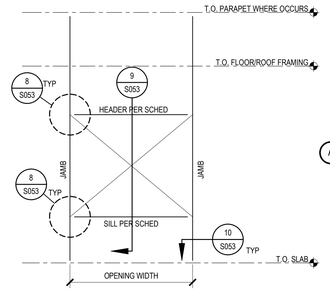

## 10 JAMB CONN AT CONCRETE FLOOR

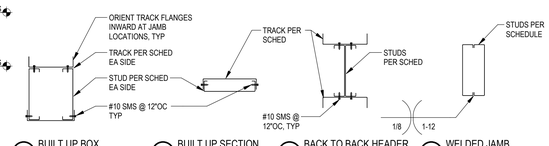
NTS 054000-01-0116




## 6 EXTERIOR STUD WALL VERTICAL SLIP CONNECTION

NTS 054000-01-0111

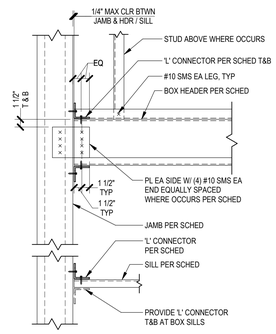



| FRAMING MEMBER SCHEDULE (UNO) | | | | | |
|---|---|---|---|---|---|
| OPENING WIDTH | JAMB | HEADER | SILL | L CONNECTOR | PL CONNECTOR |
| 4'-0" MAX | (2) 600S200-43 (SEE DTL D) | (2) 400S162-43 (2) 600T150-43 (SEE DTL A OR C) | 600T150-54 | SIMPSON SSC4.25 (T&B) | NONE |
| 8'-0" MAX | (2) 600S200-54 (2) 600T150-54 (SEE DTL A) | (2) 600S162-54 (2) 600T150-43 (SEE DTL A OR C) | 600T150-54 | SIMPSON SSC4.25 (T&B) | NONE |
| 12'-0" MAX | (2) 600S300-54 (2) 600T150-54 (SEE DTL A OR D) TRACK NOT REQUIRED @ DTL D) | (2) 600S300-54 (2) 600T200-54 (SEE DTL A) | (1) 600S162-54 (1) 600T150-54 (SEE DTL B OR D) | 2" x 2" x 4" LONG x 97 MIL BENT PL W/ (3) #10 SMS EA LEG (T&B) | 97 MIL PLATE |

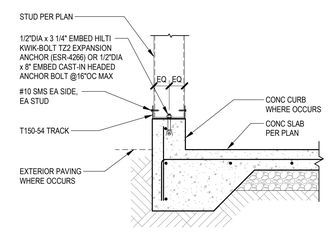
## 7 WALL OPENING FRAMING (UNO)

NTS 054000-01-0112




## 8 HEADER CONN TO JAMB

NTS 054000-01-0114




## 4 EXTERIOR STEEL STUD TO CURB/SOG

NTS 054000-01-0113

11/14/2023 3:26:33 PM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| NO. | DATE | REVISIONS |
|---|---|---|
| | 11/15/2023 | 100% Design Development |

PROJECT TITLE:

# Altadena Main Library

600 E MARIPOSA STREET
ALTADENA, CA 91001

| | |
|---|---|
| PROJECT NO. | 2111010 |
| DATE: | Issue Date |

SHEET TITLE:

**TYPICAL EXTERIOR COLD-FORMED STEEL DETAILS**

SCALE: 1" = 1'-0"


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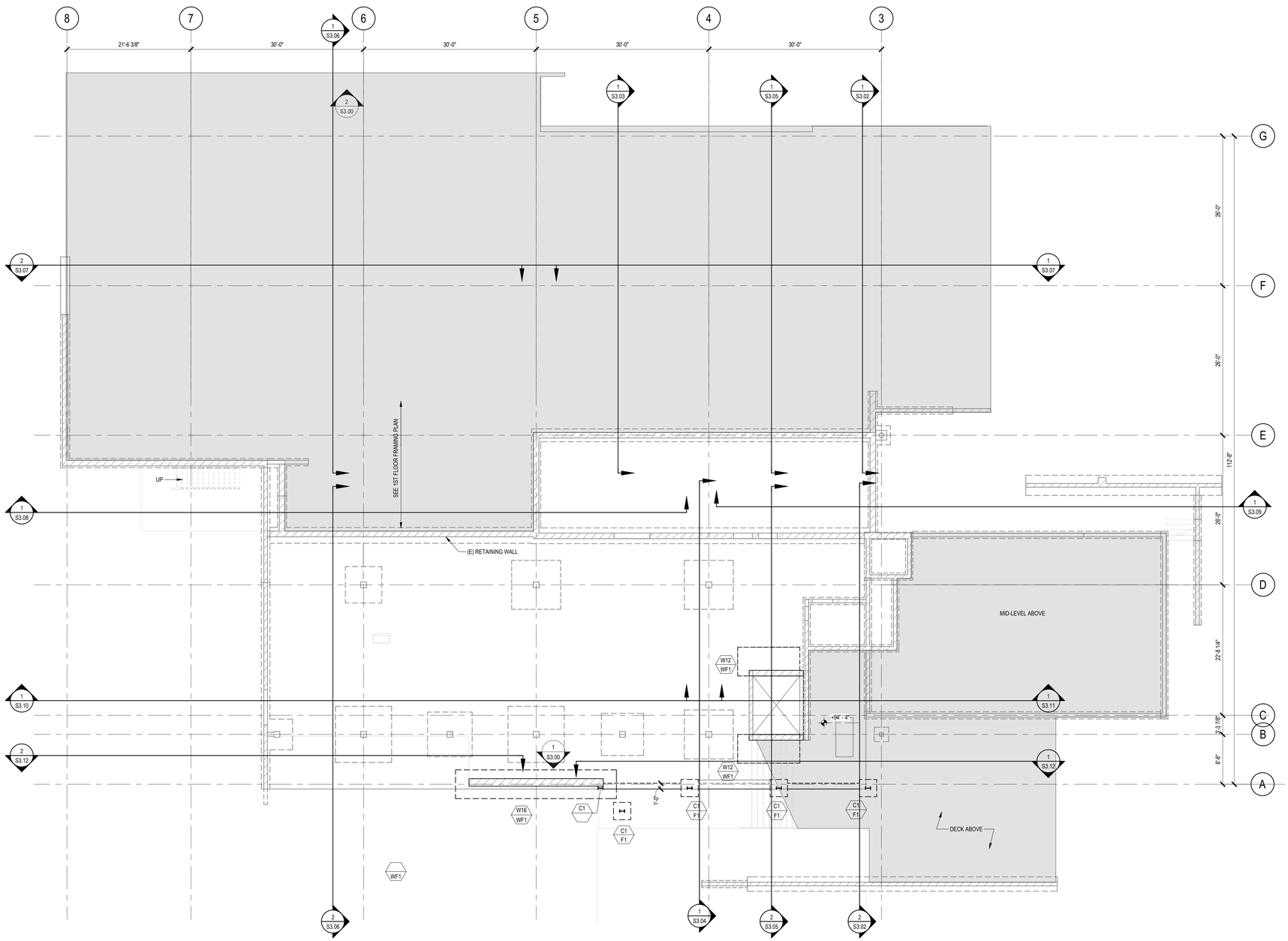


## LOWER LEVEL FOUNDATION PLAN

1/8" = 1'-0"

north

NOTES:
1. ELEVATION OF FINISH FLOOR = +X'-X".
2. TOP OF FOOTING = +X'-X", TYP UNO.
3. ALL INTERIOR SLABS SHALL BE 5" THICK (UNO) W/ #3 @ 18"OC EA WAY @ MID-DEPTH OF SLAB,OVER 2" SAND, OVER 10 MIL (MIN) VAPOR BARRIER, OVER 4" CRUSHED ROCK FILL, OVER PREPARED BUILDING PAD.
4. SEE ARCHITECTURAL AND CIVIL FOR ALL EXTERIOR CONCRETE PAVING, SLAB, BASES, CURBS, SITE WALLS, ETC.
5. SEE PLANS AND ARCHITECTURAL DRAWINGS FOR DEPRESSIONS AND/OR SLOPES IN CONCRETE SLAB.
6. SEE TYPICAL PAD AND CURB DETAILS FOR CONCRETE PADS AND CURBS AND ABOVE SLAB UNLESS NOTED OTHERWISE. SEE ARCHITECTURAL, PLUMBING, MECHANICAL AND ELECTRICAL FOR LOCATION,SIZE AND HEIGHT OF PADS AND CURBS.
7. AT 4x AND 6x POSTS, PROVIDE A SIMPSON BCO AT THE BASE ON TOP OF SILL PLATE AND A SIMPSON PC/EPC AT THE TOP WHERE HEADER OCCURS (UNO).
8. ALL STRUCTURAL WALLS SHALL BE 2x6 @ 16"OC.
9. WHERE CONCRETE BEAMS OVERLAP/INTERSECT, THE TOP AND BOTTOM REINFORCEMENT OF THE WIDER BEAM SHALL BE PLACED IN THE OUTER LAYER.

## LEGEND:

- C# / F# — INDICATES COLUMN/POST/WALL TYPE PER SCHEDULE ON S4.00; INDICATES PAD FOOTING TYPE PER SCHEDULE ON S4.00
- INDICATES CHANGE IN ELEVATION
- INDICATES SLOPED AND/OR DEPRESSED SLAB
- TOP X'-X" — INDICATES TOP OF FOOTING (TOF) ELEVATION
- S — S — INDICATES STEP IN FOUNDATION PER TYPICAL STEPPED FOOTING DETAIL CONTRACTOR TO VERIFY LOCATION & EXTENT OF STEPPED FOUNDATIONS
- GB-# — INDICATES GRADE BEAM TYPE PER SCHEDULE
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- INDICATES WOOD STUD WALL
- INDICATES WALL BELOW
- INDICATES CONCRETE CURB, EXTENT PER ARCH
- ?x? — INDICATES WOOD POST
- ? — INDICATES HOLDOWN TYPE PER SCHEDULE
- X'-X" — INDICATES SHEARWALL TYPE PER SCHEDULE; INDICATES MINIMUM LENGTH REQD (SEE ARCH DRAWINGS FOR DIMENSIONS)
- INDICATES MOMENT CONNECTION PER ? S?.??
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- # — INDICATES STRAP TYPE PER SCHEDULE
- AHU — INDICATES MECHANICAL UNIT WITH MAX OPERATING WEIGHT PER PLAN
- # — INDICATES STRAP PER SCHEDULE


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PROJECT TITLE:

# Altadena Main Library

600 E MARIPOSA STREET
ALTADENA, CA 91001

| | |
|---|---|
| PROJECT NO. | 2111010 |
| DATE: | Issue Date |

SHEET TITLE:

**LOWER LEVEL FOUNDATION PLAN**

SCALE: As indicated


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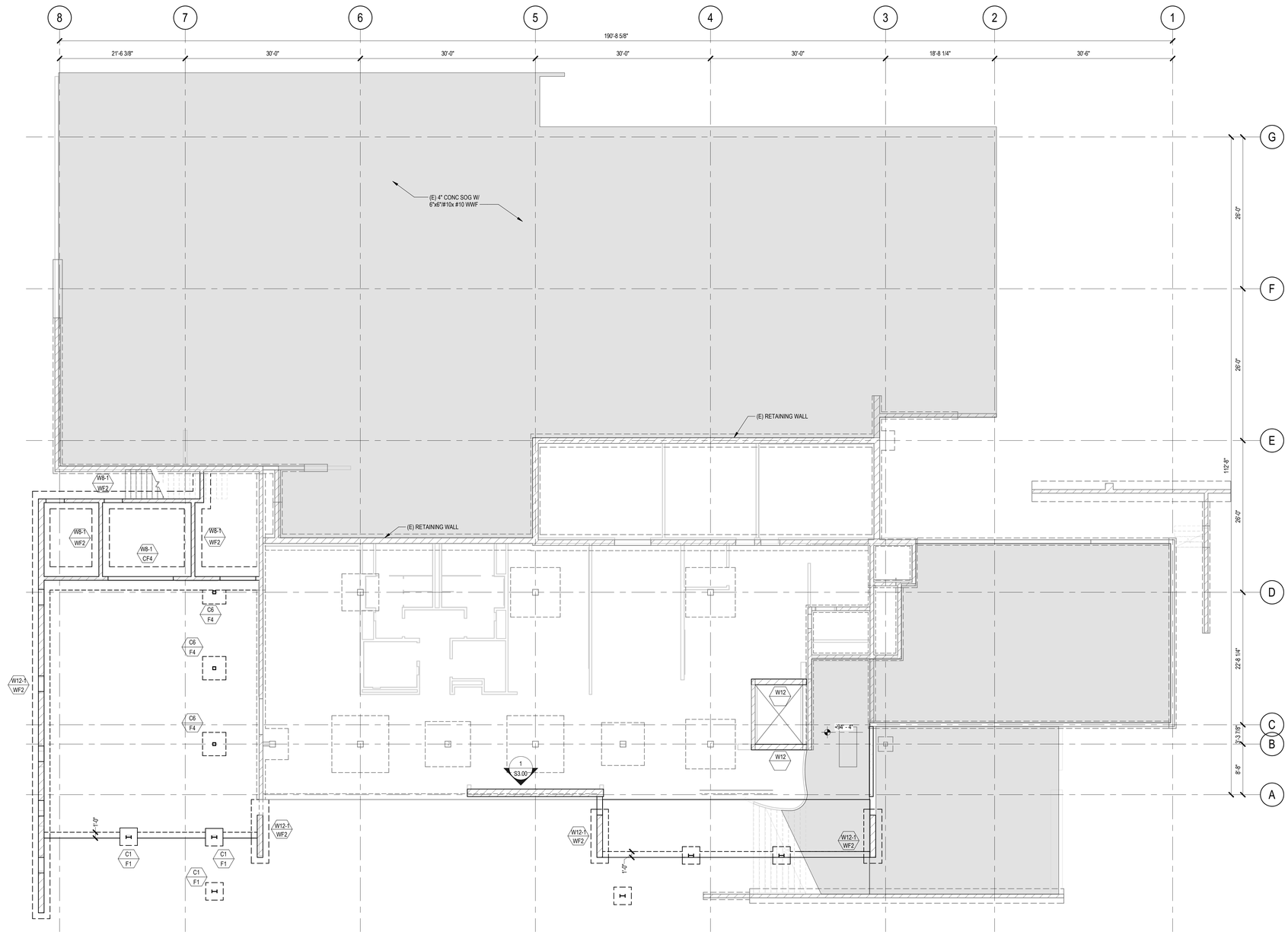


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## LOWER LEVEL FOUNDATION PLAN - ADD ALTS

1/8" = 1'-0"

north

NOTES:
1. ELEVATION OF FINISH FLOOR = +X'-X".
2. TOP OF FOOTING = +X'-X", TYP UNO.
3. ALL INTERIOR SLABS SHALL BE 5" THICK (UNO) W/ #3 @ 18"OC EA WAY @ MID-DEPTH OF SLAB,OVER 2" SAND, OVER 10 MIL (MIN) VAPOR BARRIER, OVER 4" CRUSHED ROCK FILL, OVER PREPARED BUILDING PAD.
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PROJECT TITLE:

# Altadena Main Library

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| PROJECT NO. | 2111010 |
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SHEET TITLE:

**LOWER LEVEL FOUNDATION PLAN - ADD ALTS**

SCALE: As indicated


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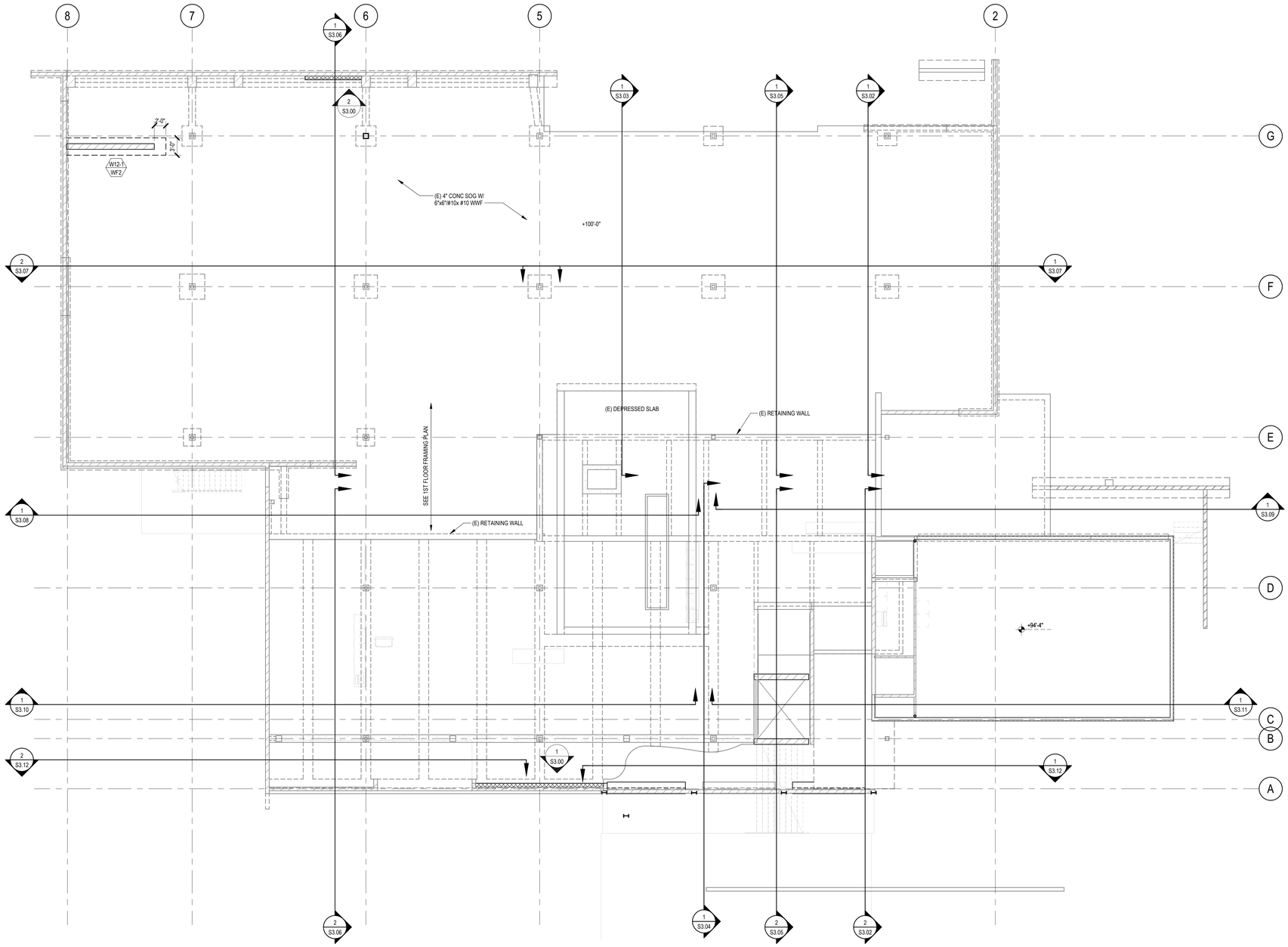


## MAIN LEVEL FOUNDATION PLAN

1/8" = 1'-0"

north

NOTES:
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PROJECT TITLE:

# Altadena Main Library

600 E MARIPOSA STREET
ALTADENA, CA 91001

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| PROJECT NO. | 2111010 |
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SHEET TITLE:

**MAIN LEVEL FOUNDATION PLAN**

SCALE: As indicated


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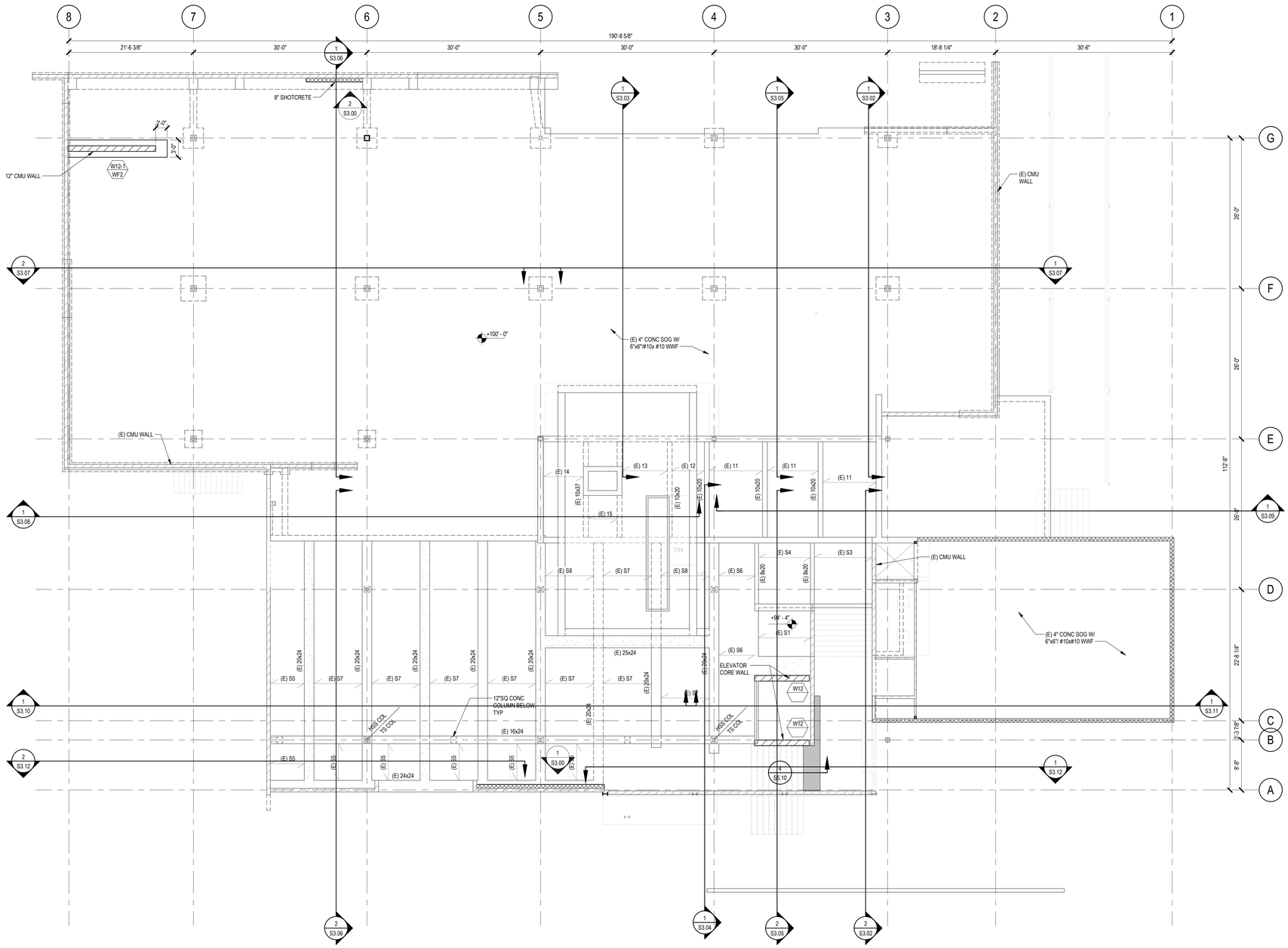


## MAIN LEVEL FRAMING PLAN

1/8" = 1'-0"

north

NOTES:
1. FIRST FLOOR TOP OF THE SHEATING ELEVATION = +100'-0". SEE ARCHITECTURAL FOR FINISH FLOOR ELEVATION.
2. SEE ARCHITECTURAL, PLUMBING,MECHANICAL AND ELECTRICAL FOR LOCATION OF EQUIPMENT. CONTRACTOR TO VERIFY ALL UNIT LOCATIONS, SIZES AND OPENINGS.
3. ALL STRUCTURAL WALLS SHALL BE 2x6 @ 16"OC.
4. FIRST FLOOR WALLS BELOW SHOWN UNO.
5. ALL BEAMS SHALL BE EQUALLY SPACED BETWEEN COLUMNS/GIRDERS UNLESS NOTED OTHERWISE.
6. SEE ARCHITECTURAL FOR SLOPING AND ELEVATION OF SLABS, DEPRESSIONS, OPENINGS,RAMPS,ETC.

## LEGEND:

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PROJECT TITLE:

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| PROJECT NO. | 2111010 |
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**MAIN LEVEL FRAMING PLAN**

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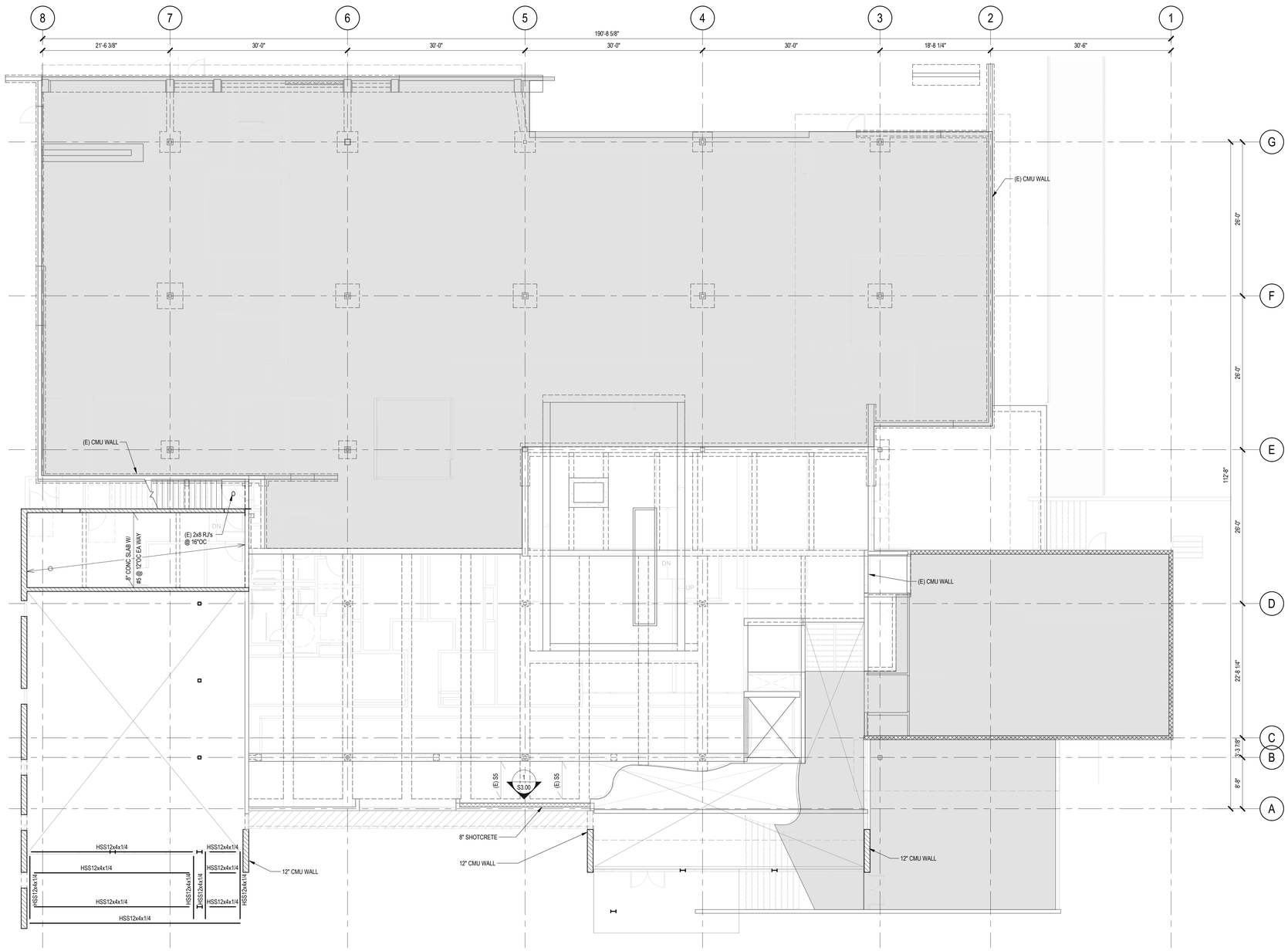


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## MAIN LEVEL FRAMING PLAN - ADD ALTS

1/8" = 1'-0"

north

NOTES:
1. FIRST FLOOR TOP OF THE SHEATING ELEVATION = +100'-0". SEE ARCHITECTURAL FOR FINISH FLOOR ELEVATION.
2. SEE ARCHITECTURAL, PLUMBING,MECHANICAL AND ELECTRICAL FOR LOCATION OF EQUIPMENT. CONTRACTOR TO VERIFY ALL UNIT LOCATIONS, SIZES AND OPENINGS.
3. ALL STRUCTURAL WALLS SHALL BE 2x6 @ 16"OC.
4. FIRST FLOOR WALLS BELOW SHOWN UNO.
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6. SEE ARCHITECTURAL FOR SLOPING AND ELEVATION OF SLABS, DEPRESSIONS, OPENINGS,RAMPS,ETC.

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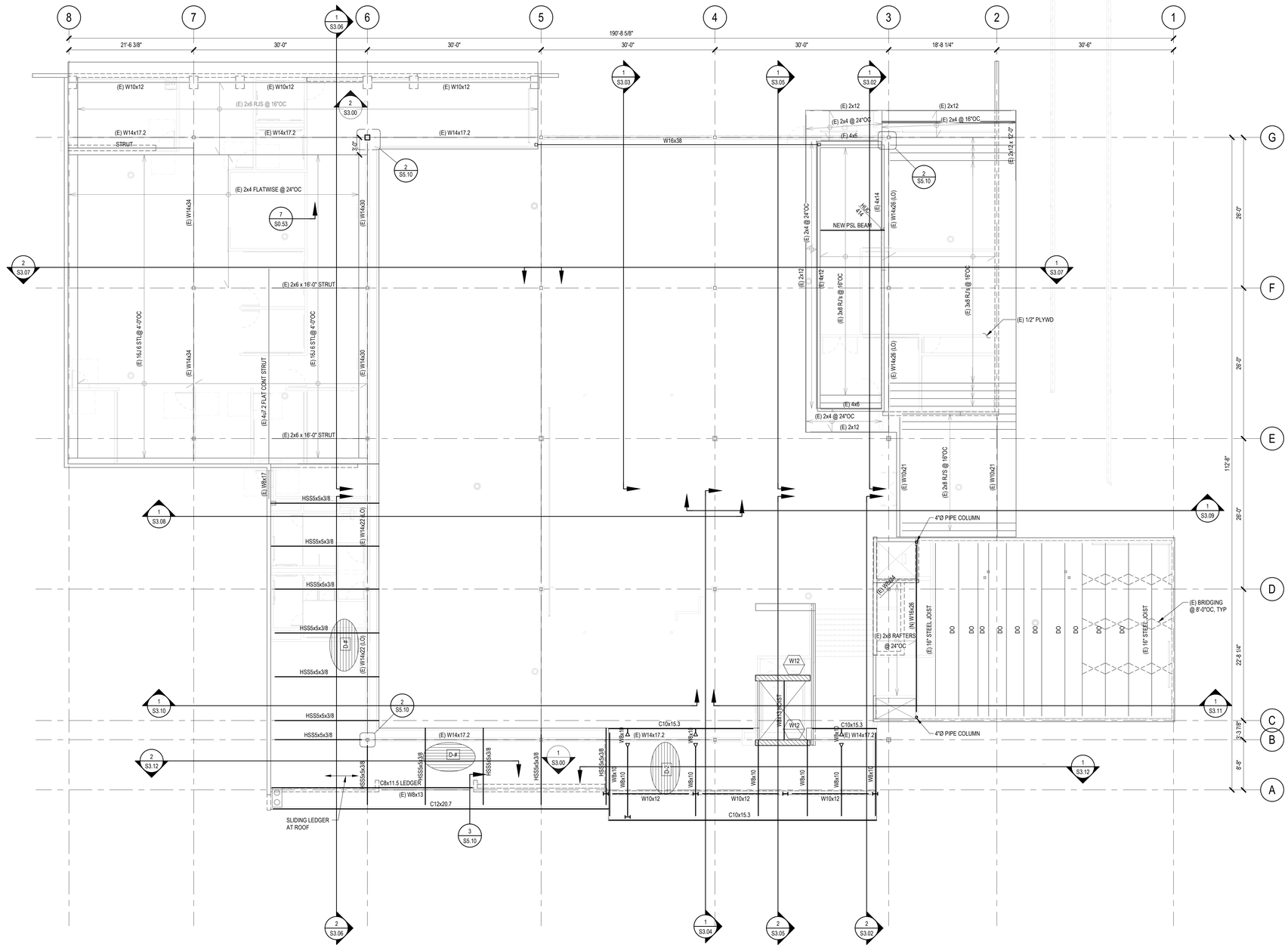


## LOW ROOF FRAMING PLAN

1/8" = 1'-0"

NOTES:
1. SEE ARCHITECTURAL FOR ROOF AND TOP OF PARAPET ELEVATIONS.
2. SEE ARCHITECTURAL, PLUMBING, MECHANICAL AND ELECTRICAL FOR LOCATION OF EQUIPMENT. CONTRACTOR TO VERIFY ALL UNIT LOCATIONS, SIZES AND OPENINGS.
3. ALL BEAMS SHALL BE EQUALLY SPACED BETWEEN COLUMNS/GIRDERS UNLESS NOTED OTHERWISE.
4. SEE ARCHITECTURAL FOR SLOPING AND ELEVATION OF SLABS, DEPRESSIONS, OPENINGS, RAMPS, ETC.
5. HEIGHT FROM TOP OF ROOF TO SOLAR ARRAY SYSTEMS SHALL BE LESS THAN 24". MAXIMUM WEIGHT OF SOLAR ARRAY SHALL BE 4 PSF.

north

## LEGEND:

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- ?x? — INDICATES WOOD POST
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- +'-'" — INDICATES TOP OF STEEL ELEVATION
- D# — INDICATES SPAN DIRECTION AND TYPE OF FILLED METAL DECK PER SCHEDULE ON S4.00
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- # — INDICATES ROOF DIAPHRAGM NAILING TYPE PER SCHEDULE
- # — INDICATES STRAP TYPE PER SCHEDULE
- AHU — INDICATES MECHANICAL UNIT WITH MAX OPERATING WEIGHT PER PLAN
- # — INDICATES STRAP PER SCHEDULE


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PROJECT TITLE:

# Altadena Main Library

600 E MARIPOSA STREET
ALTADENA, CA 91001

| | |
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| PROJECT NO. | 2111010 |
| DATE: | Issue Date |

SHEET TITLE:

**LOW ROOF FRAMING PLAN**

SCALE: As indicated


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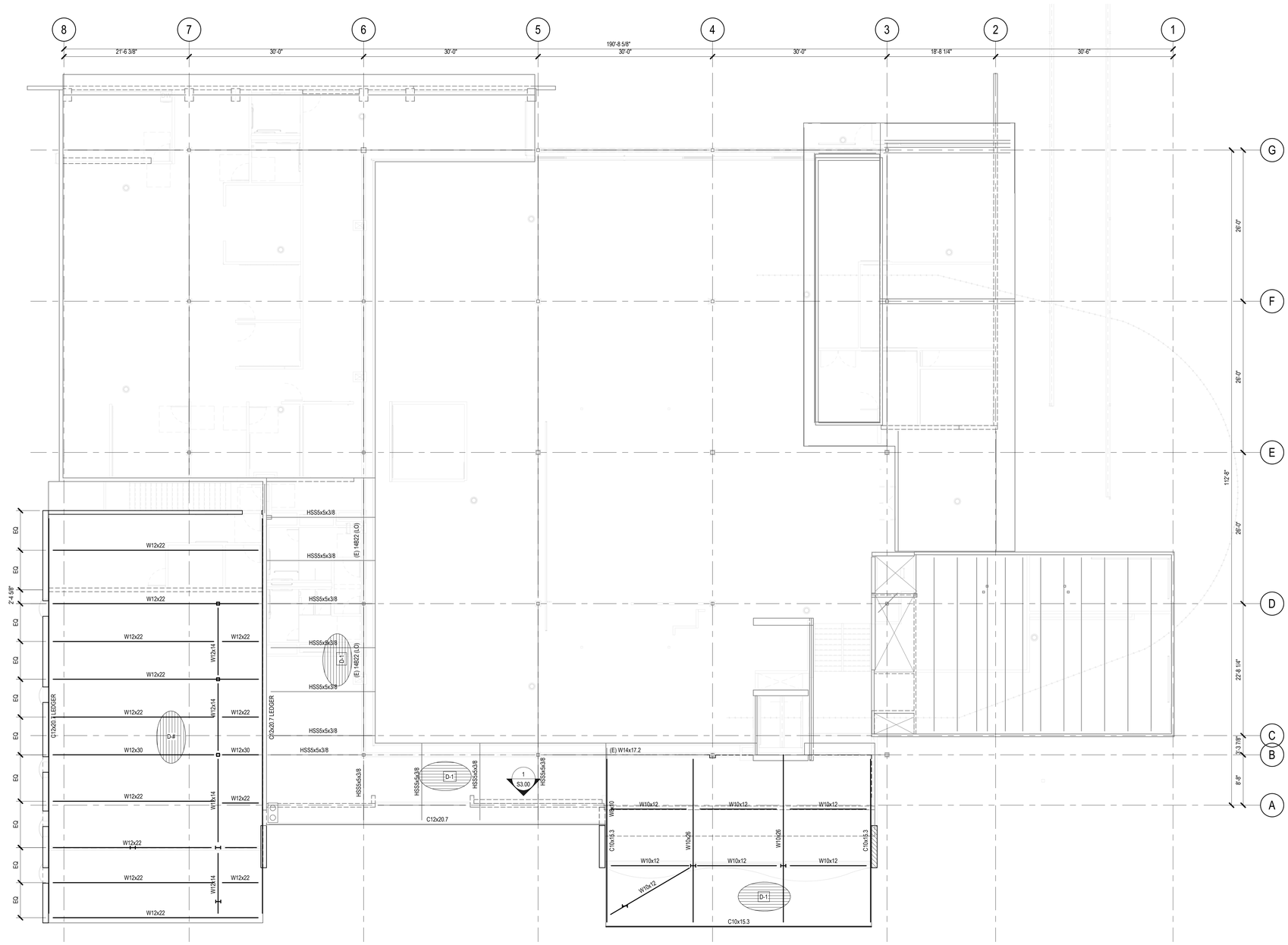


## LOW ROOF FRAMING PLAN - ADD ALTS

1/8" = 1'-0"

north

## LEGEND:

- C# / F# — INDICATES COLUMN/POST/WALL TYPE PER SCHEDULE ON S4.00; INDICATES PAD FOOTING TYPE PER SCHEDULE ON S4.00
- INDICATES CHANGE IN ELEVATION
- INDICATES SLOPED AND/OR DEPRESSED SLAB
- TOP X'-X" — INDICATES TOP OF FOOTING (TOF) ELEVATION
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**LOW ROOF FRAMING PLAN - ADD ALTS**

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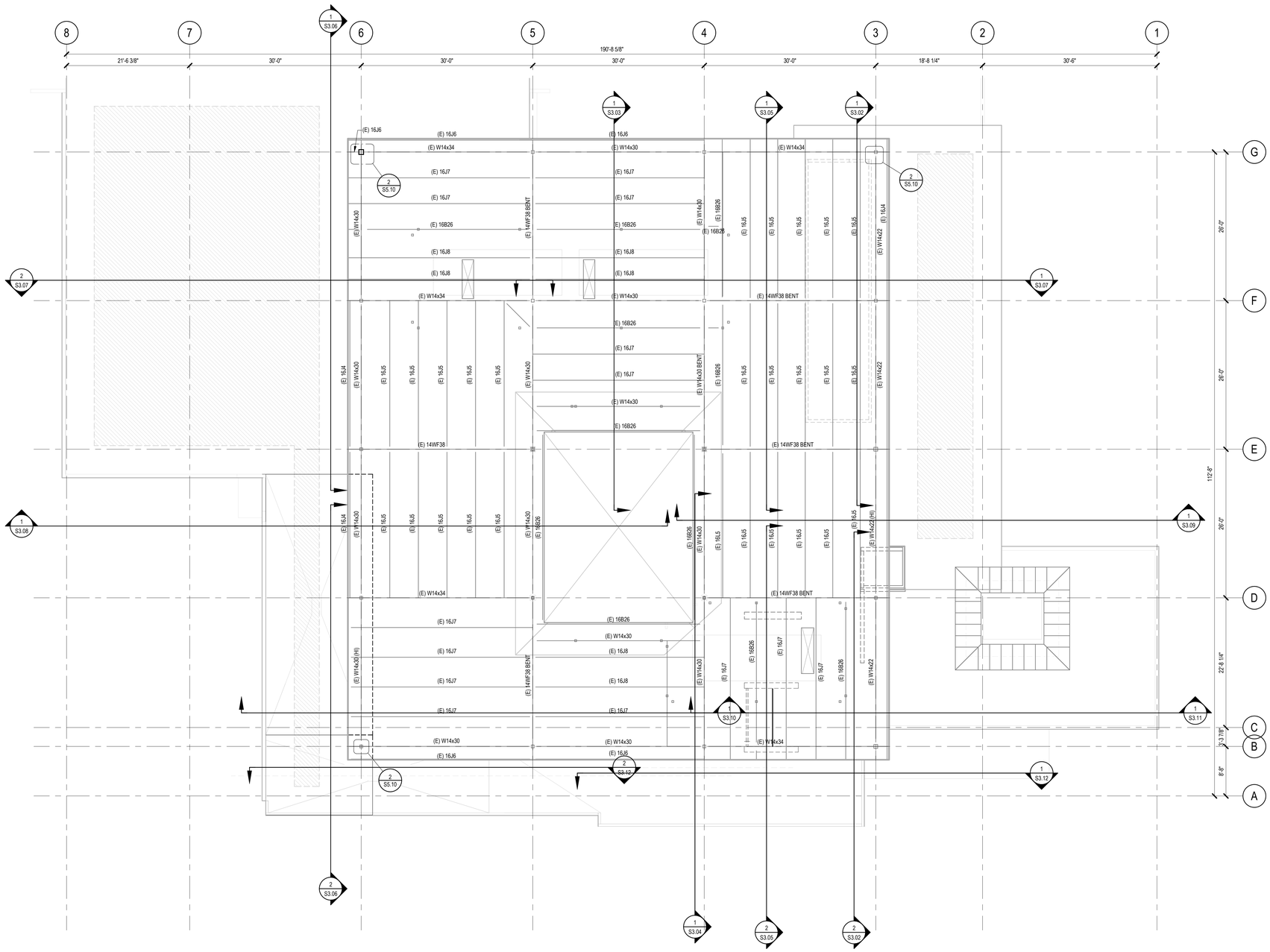


## HIGH ROOF FRAMING PLAN

1/8" = 1'-0"

north

## LEGEND:

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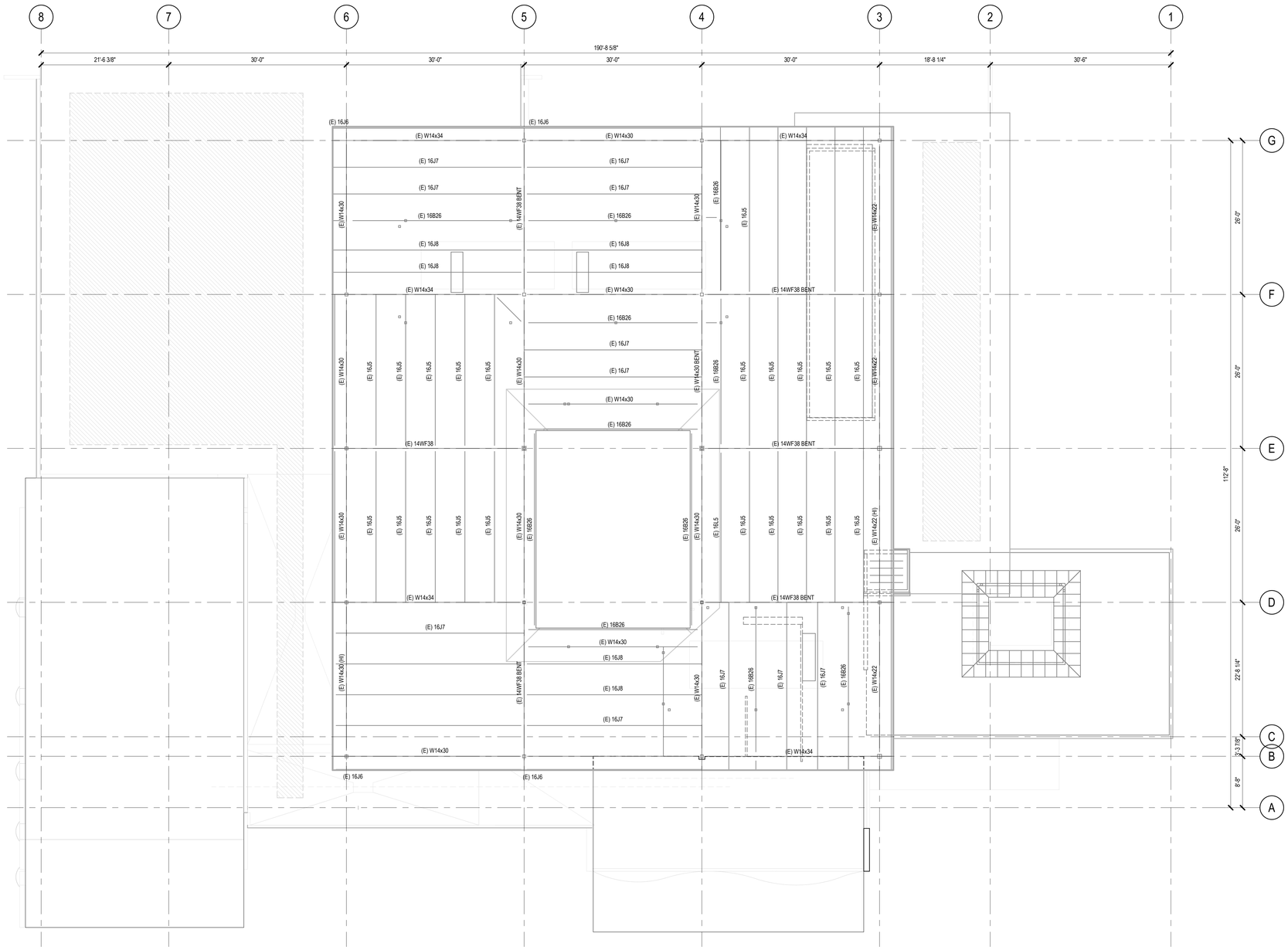


## HIGH ROOF FRAMING PLAN - ADD ALTS

1/8" = 1'-0"

north

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## LEGEND:

- INDICATES (N) HSS10x10 COLUMN
- INDICATES (N) CMU WALL
- INDICATES (N) 8" SHOTCRETE


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**HIGH ROOF FRAMING PLAN - ADD ALTS**

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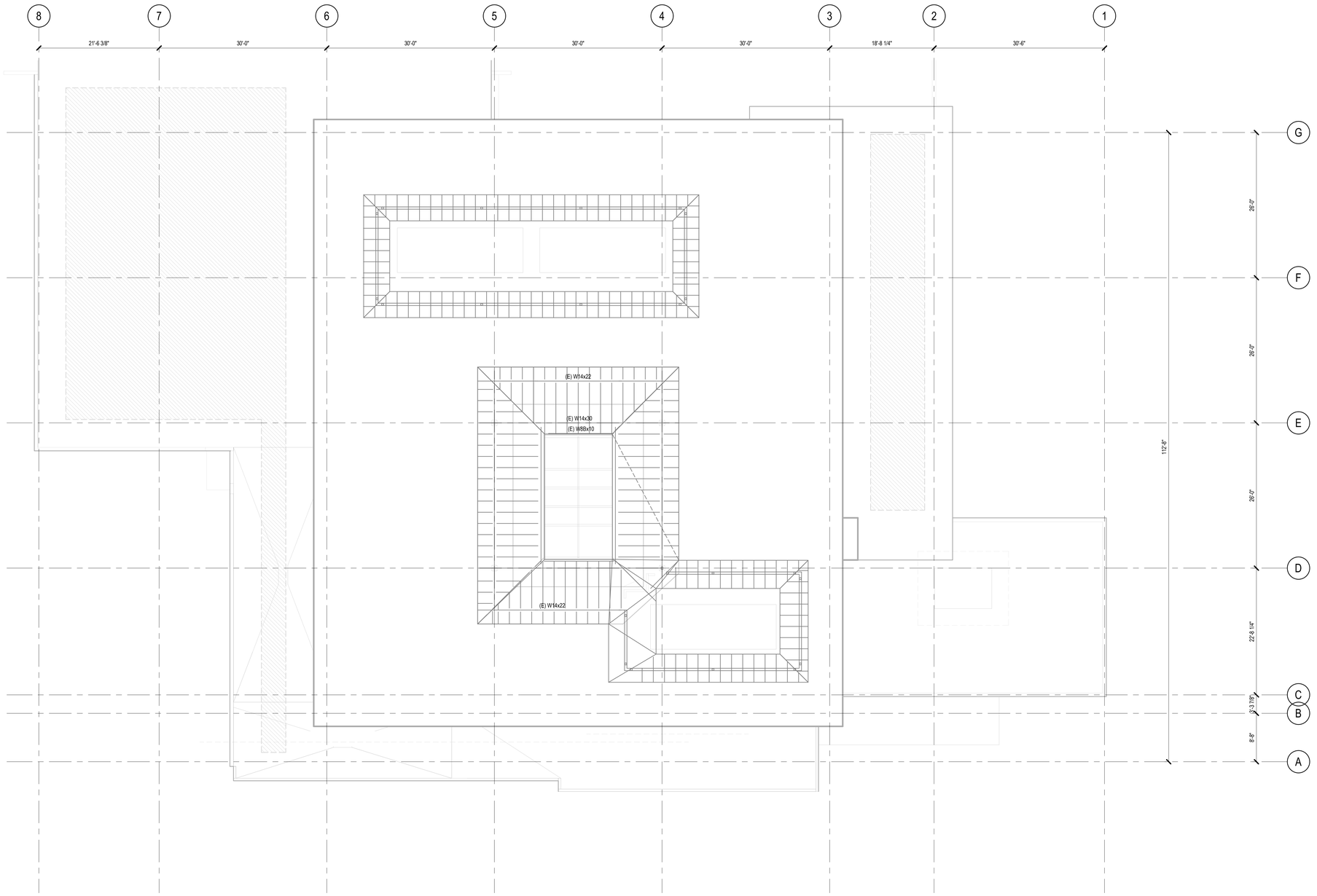


SKYLIGHT ROOF & A/C SCREEN FRAMING PLAN

1/8" = 1'-0"

north

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SHEET TITLE:

**SKYLIGHT ROOF & A/C SCREEN FRAMING PLAN**

SCALE: 1/8" = 1'-0"

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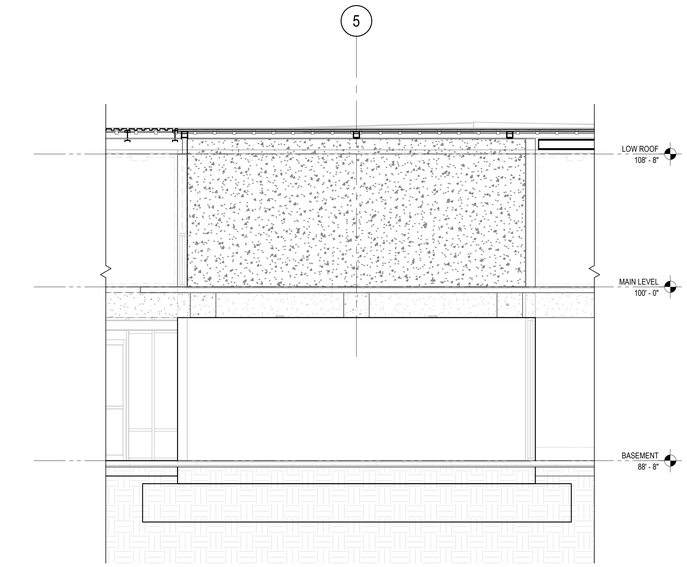
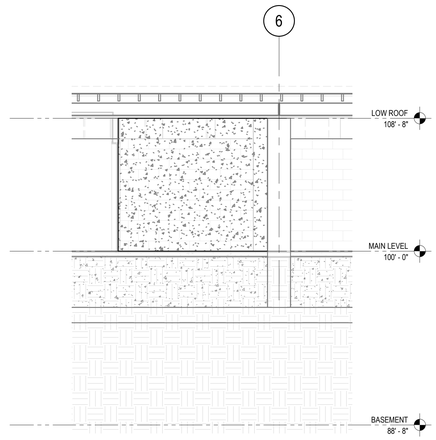



1 WALL ELEVATION
1/4" = 1'-0"




2 WALL ELEVATION
1/4" = 1'-0"

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## WALL ELEVATIONS

SCALE: 1/4" = 1'-0"

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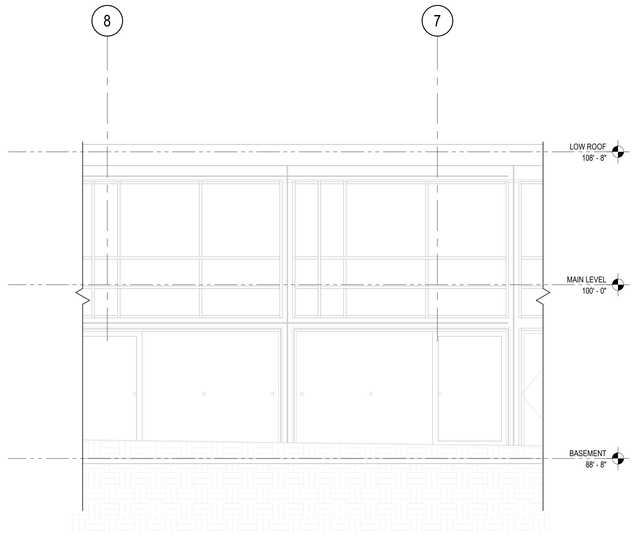


## 2 FRAME ELEVATION

1/4" = 1'-0"

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**FRAME ELEVATIONS**

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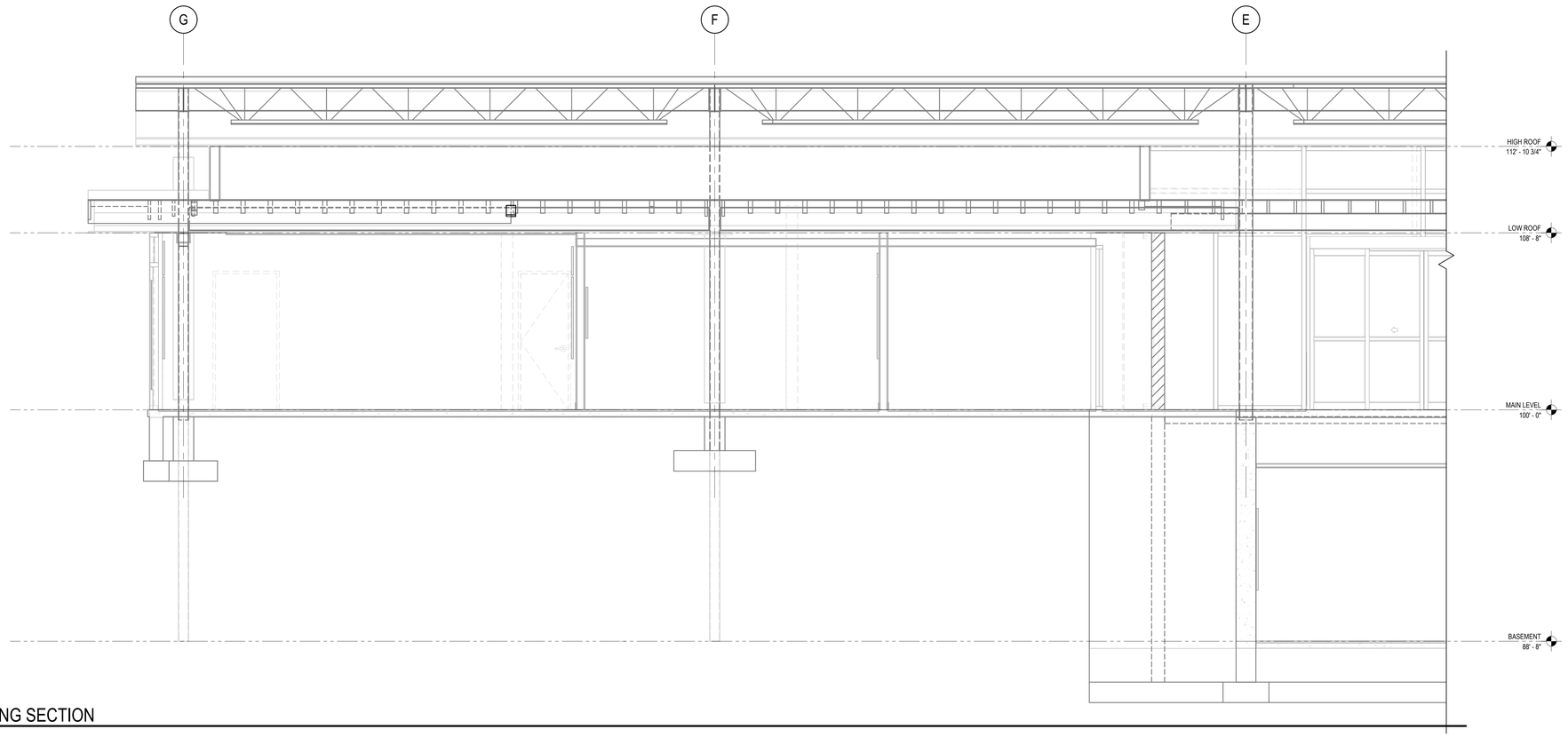
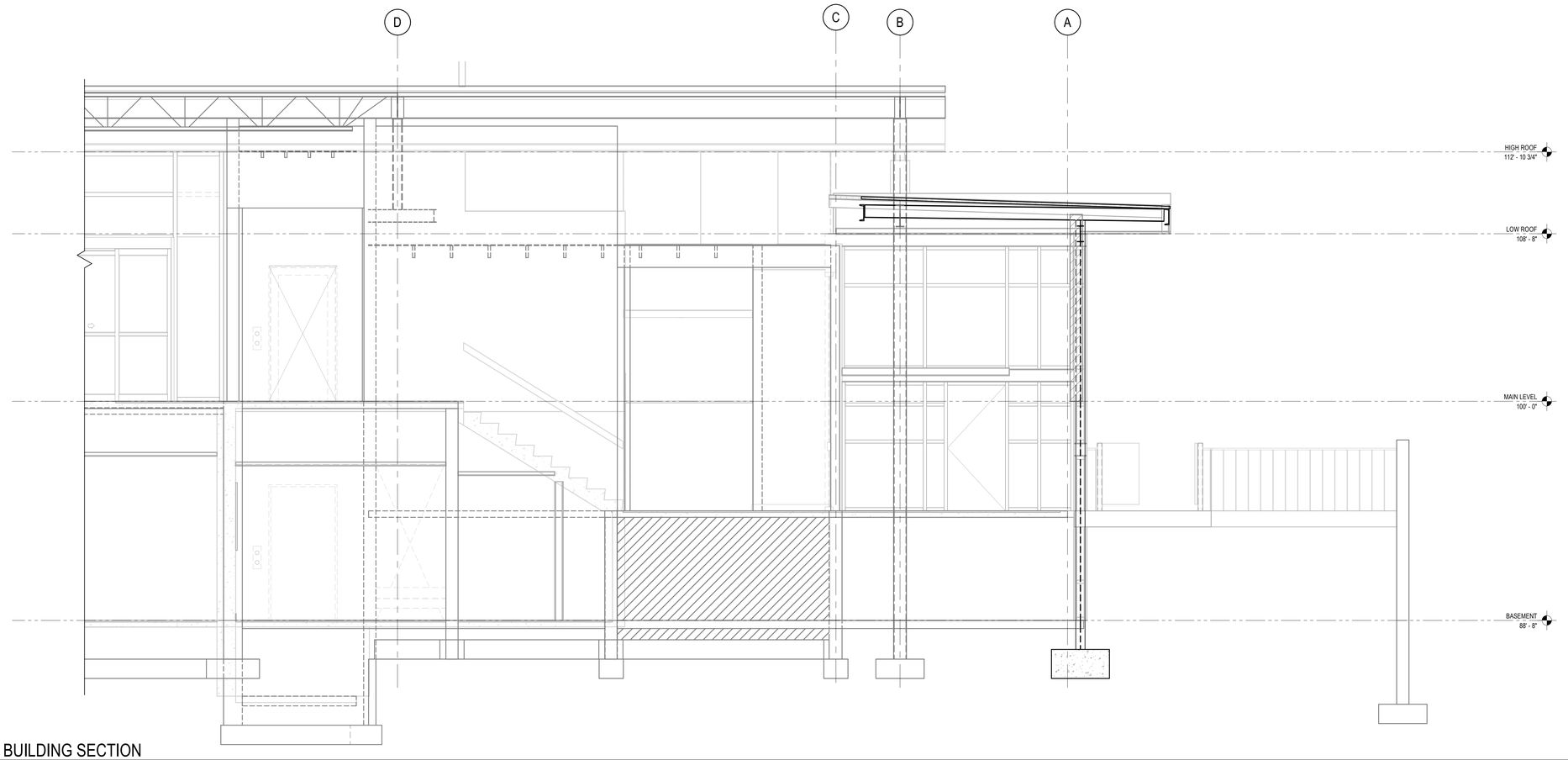



1 BUILDING SECTION
3/8" = 1'-0"




2 BUILDING SECTION
3/8" = 1'-0"

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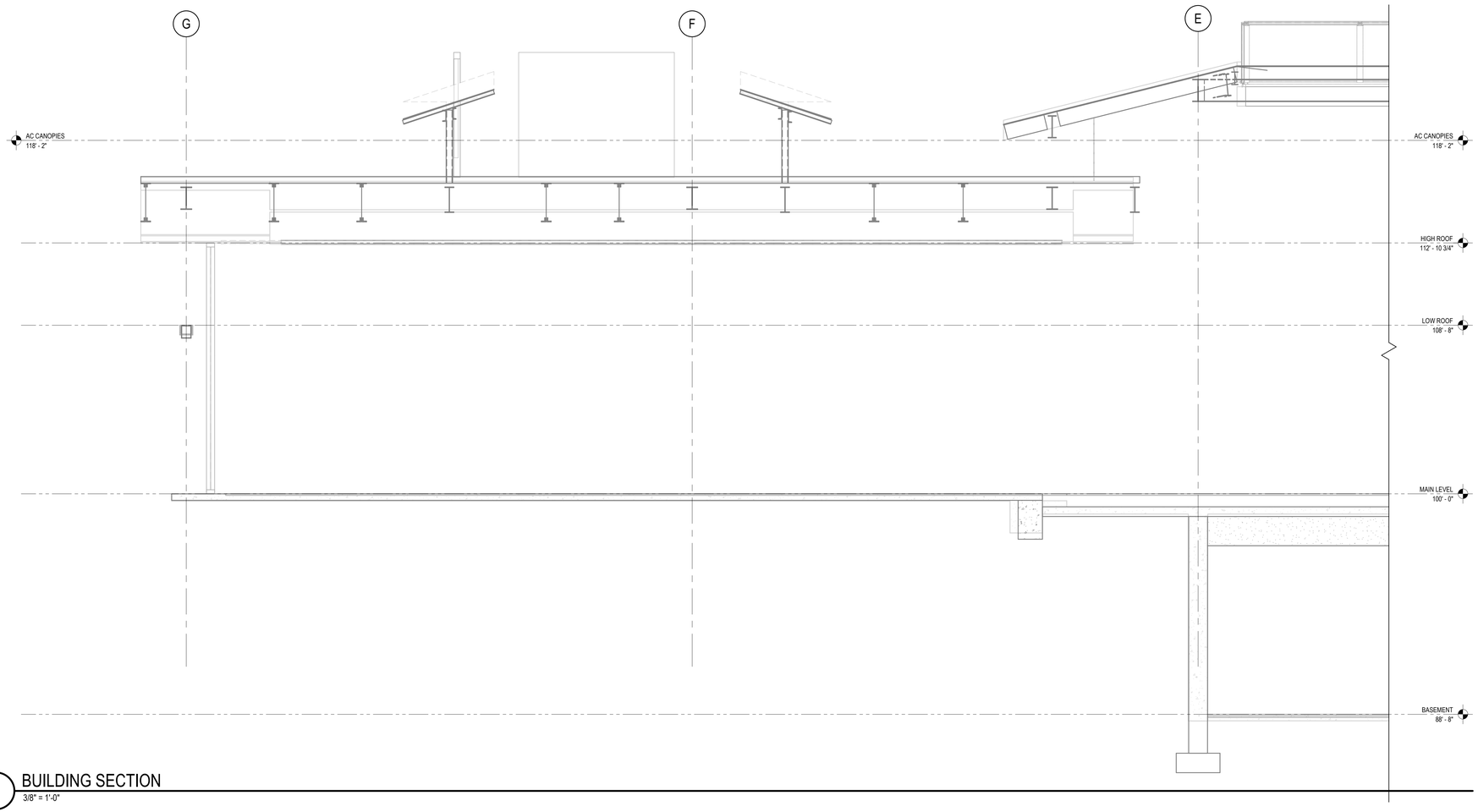


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3/8" = 1'-0"

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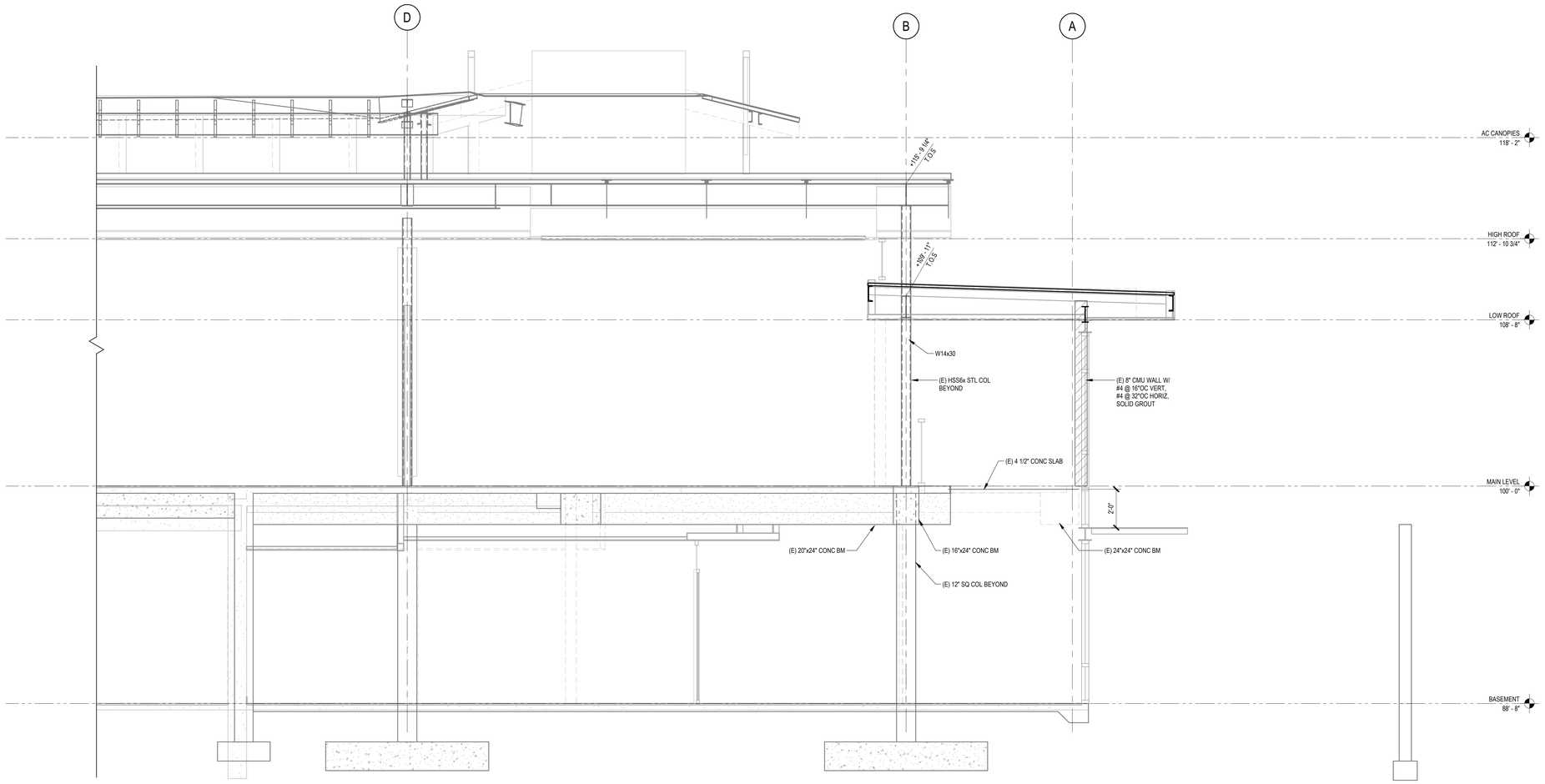


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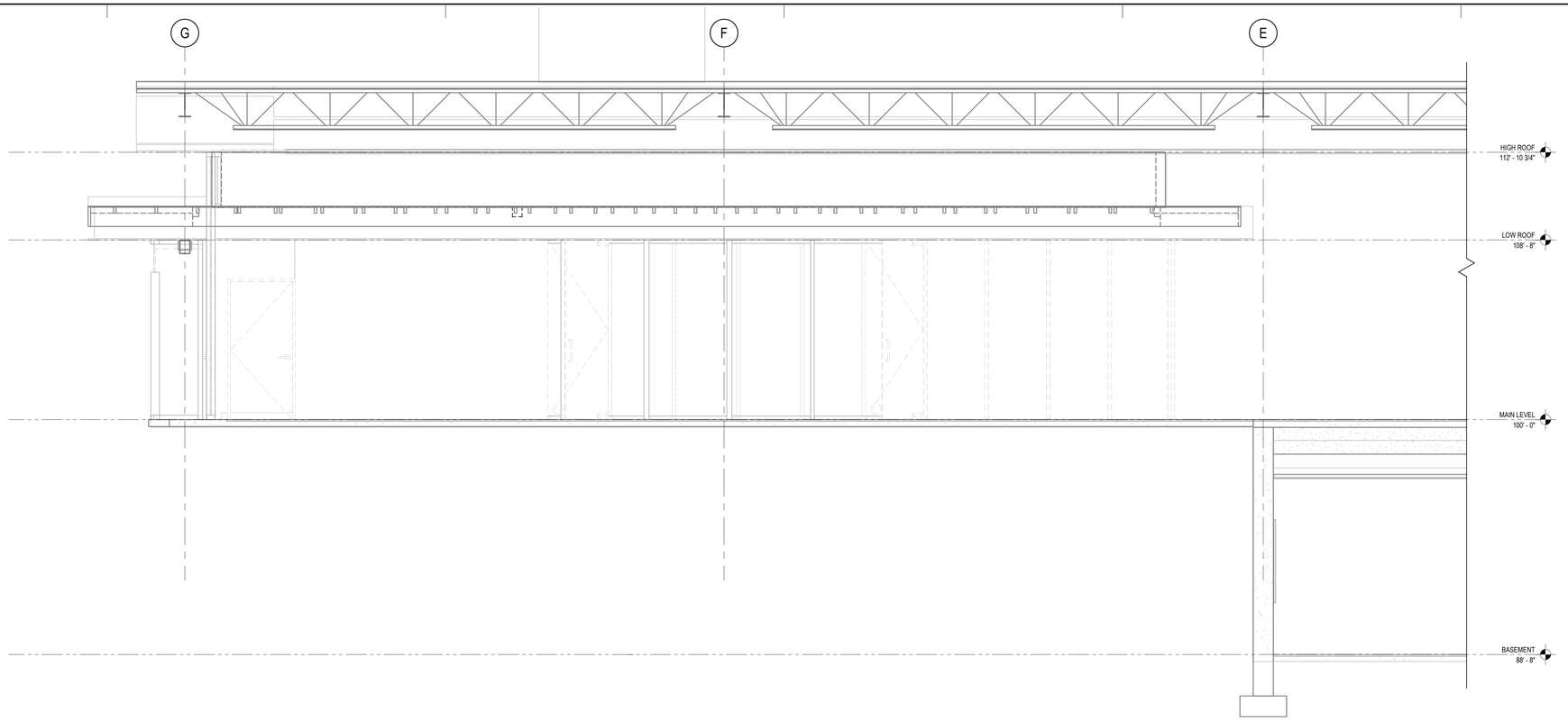


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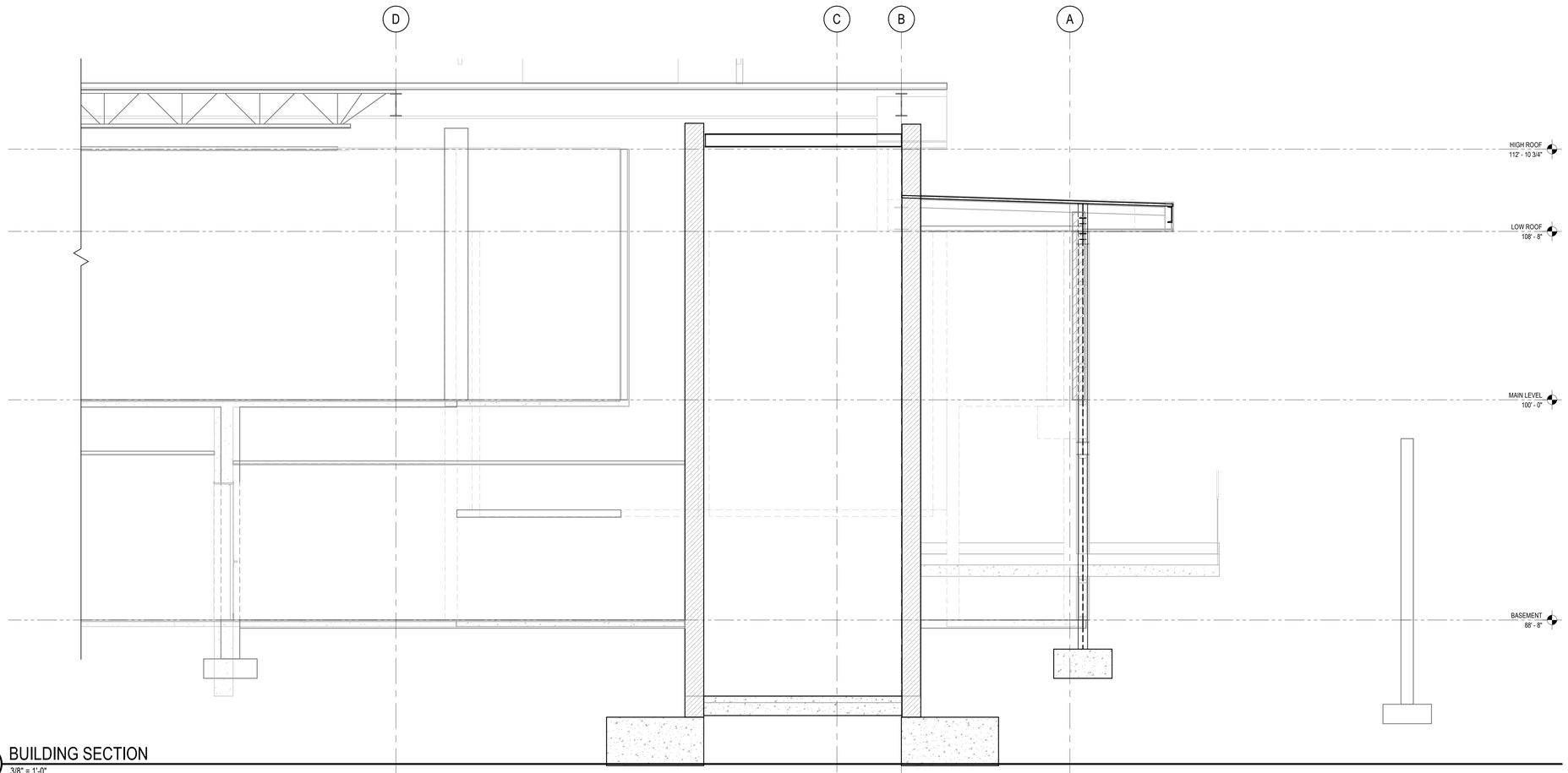


2 BUILDING SECTION
3/8" = 1'-0"

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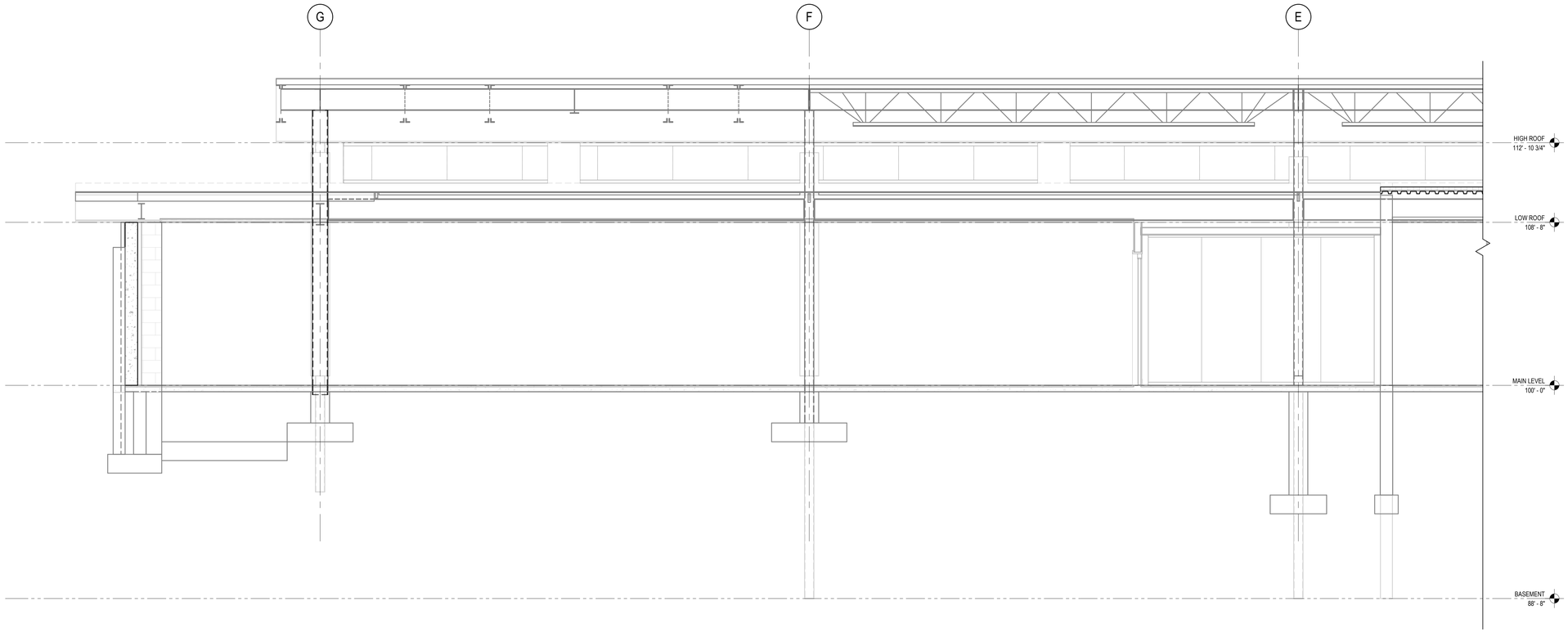
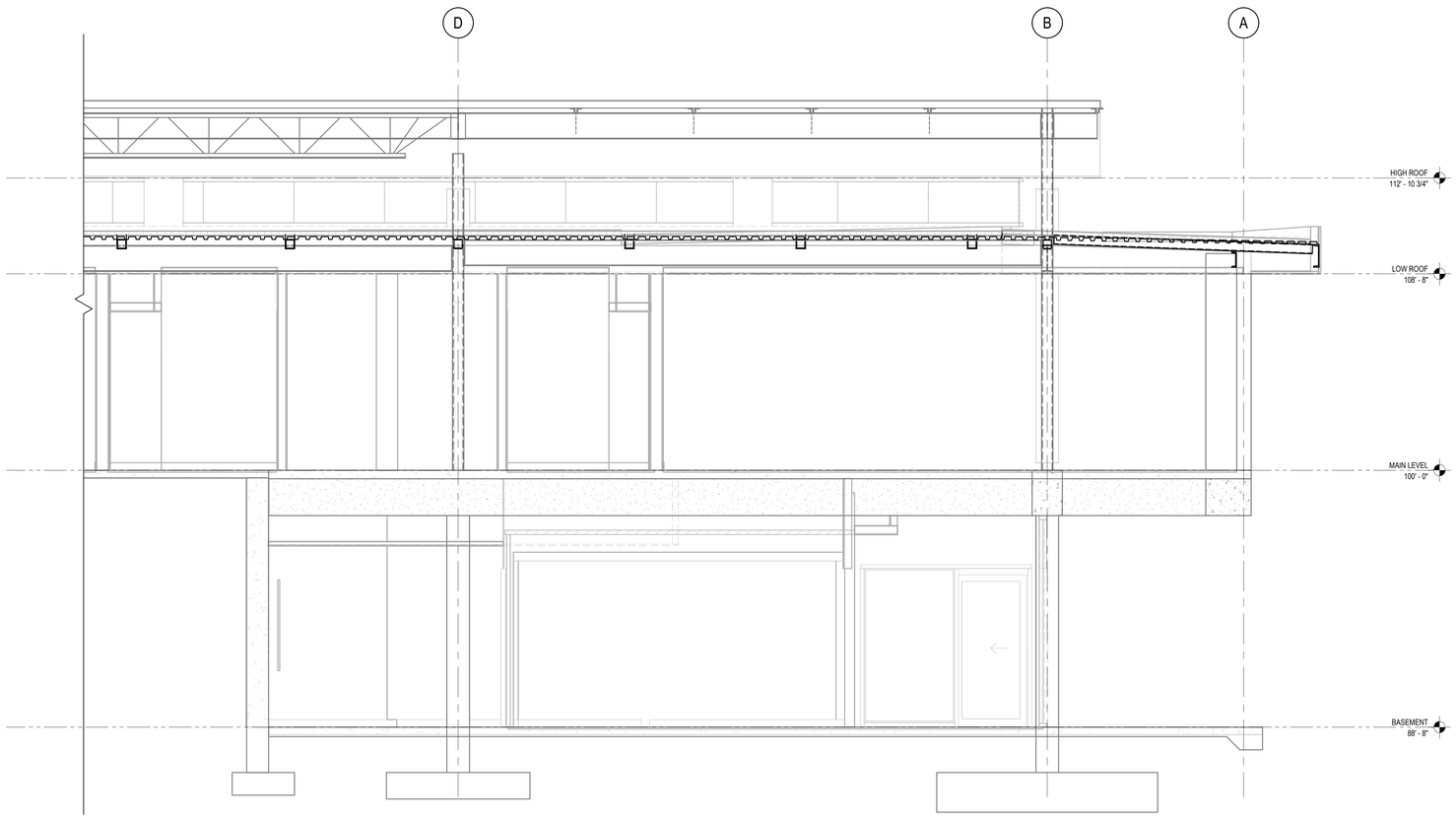



1 BUILDING SECTION
3/8" = 1'-0"




2 BUILDING SECTION
3/8" = 1'-0"

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PROJECT TITLE:

# Altadena Main Library

600 E MARIPOSA STREET
ALTADENA, CA 91001

| | |
|---|---|
| PROJECT NO. | 2111010 |
| DATE: | Issue Date |

SHEET TITLE:

**BUILDING SECTIONS**

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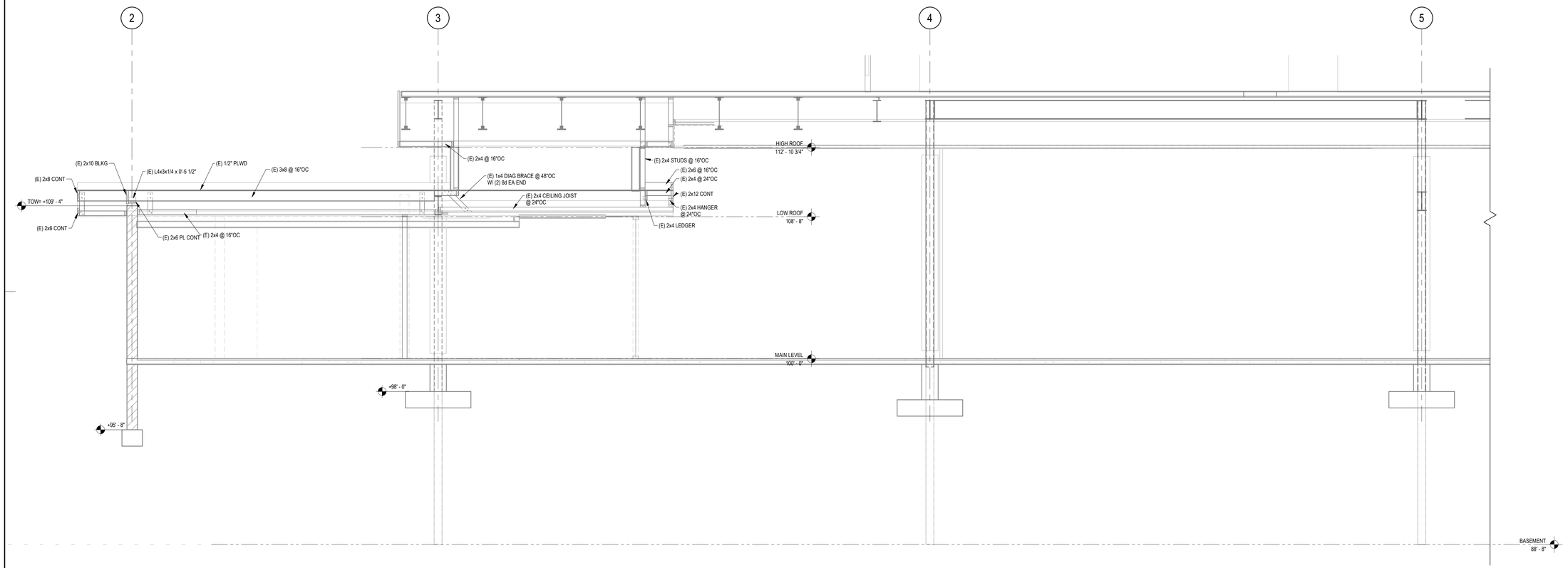


1 SECTION
3/8" = 1'-0"




2 SECTION
3/8" = 1'-0"

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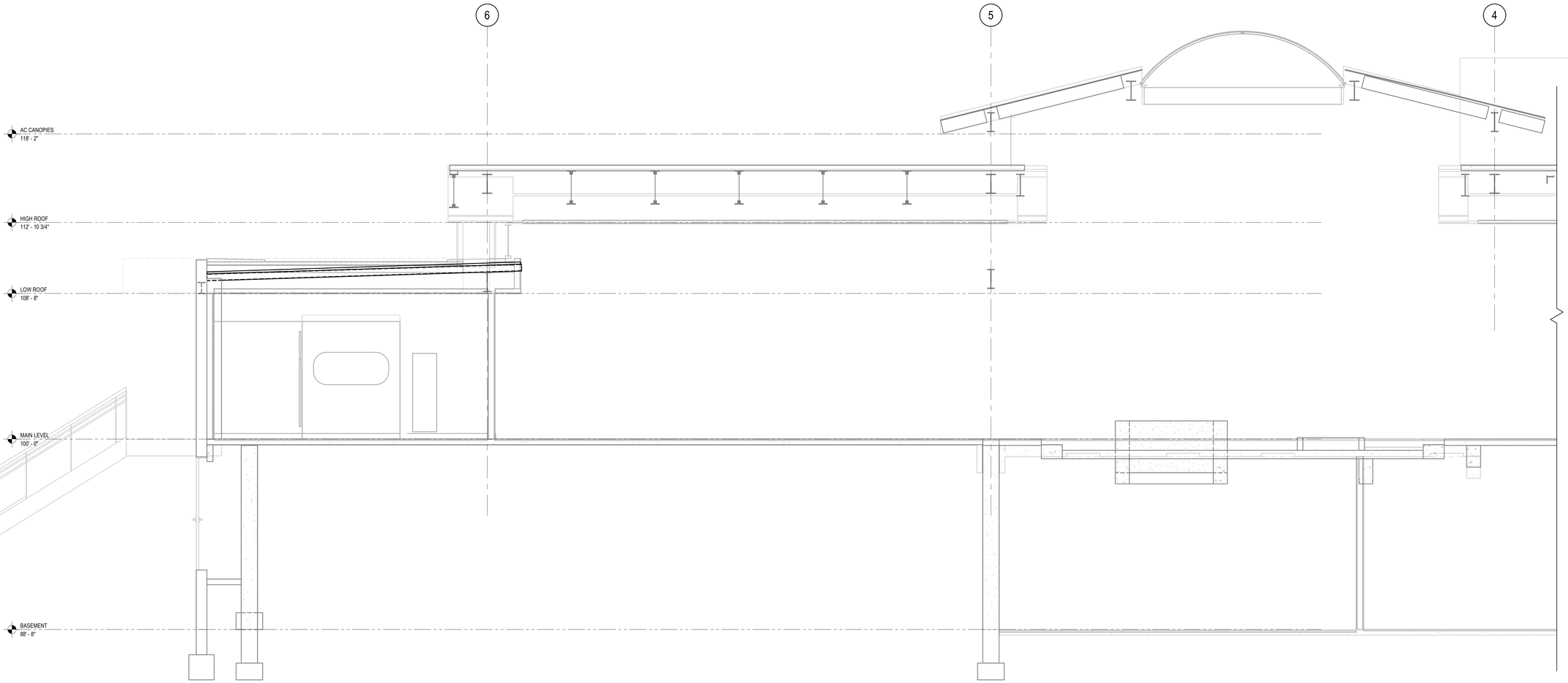


1 SECTION
3/8" = 1'-0"

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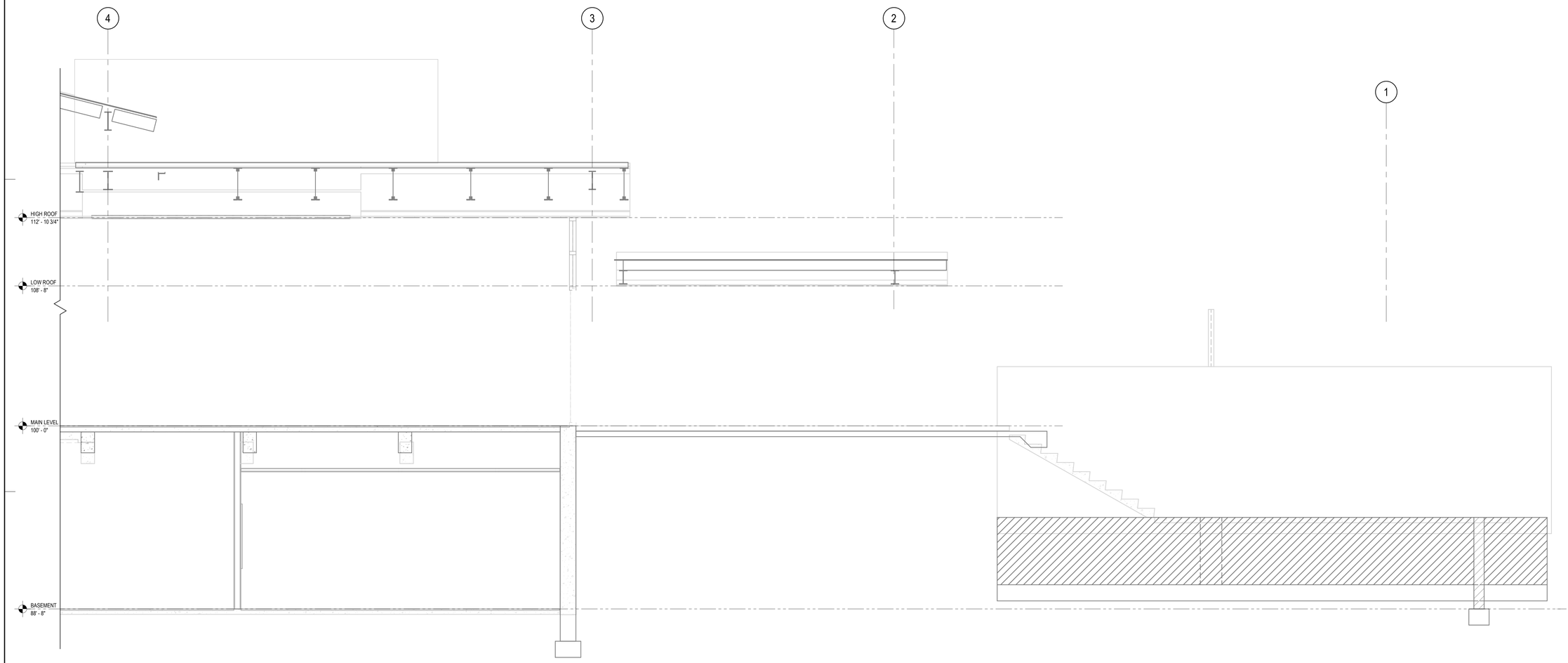


1 SECTION
3/8" = 1'-0"

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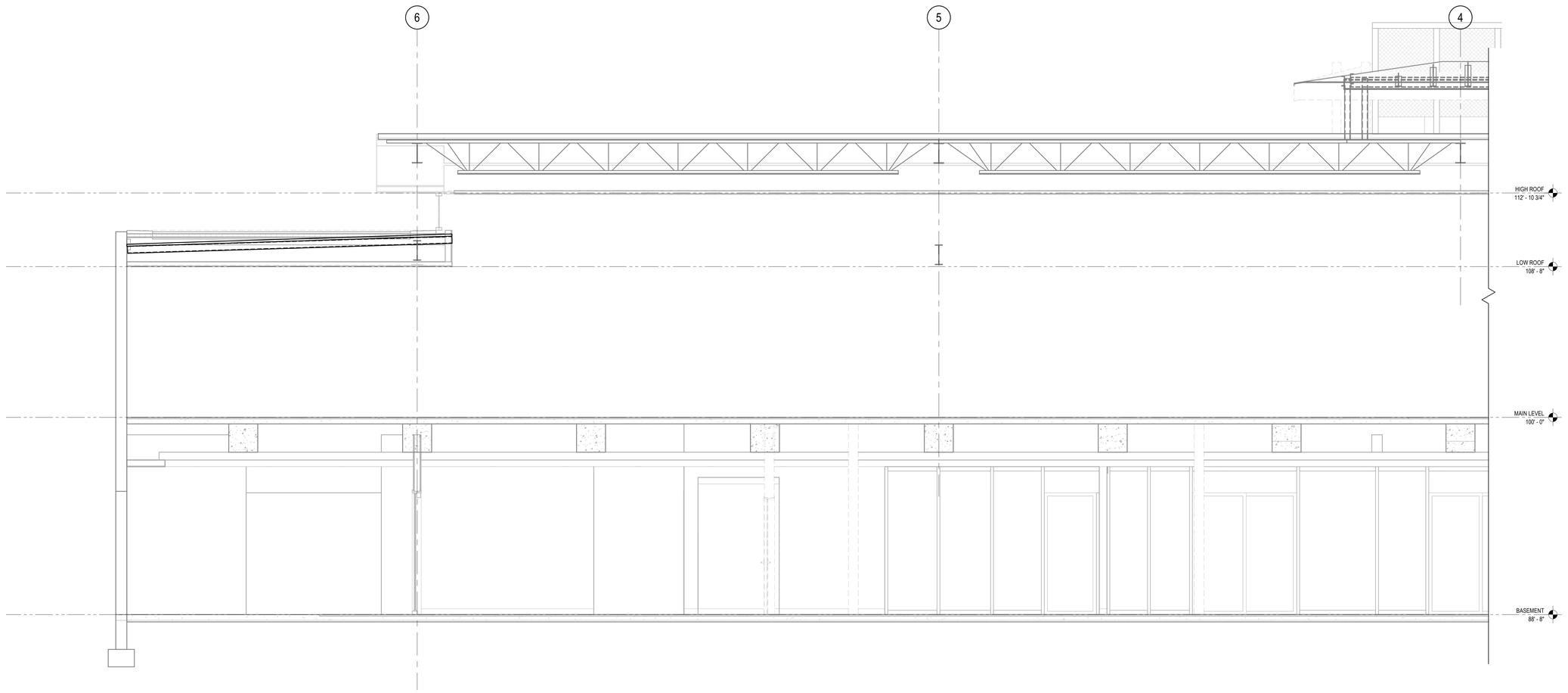


1 SECTION
3/8" = 1'-0"

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SHEET TITLE:

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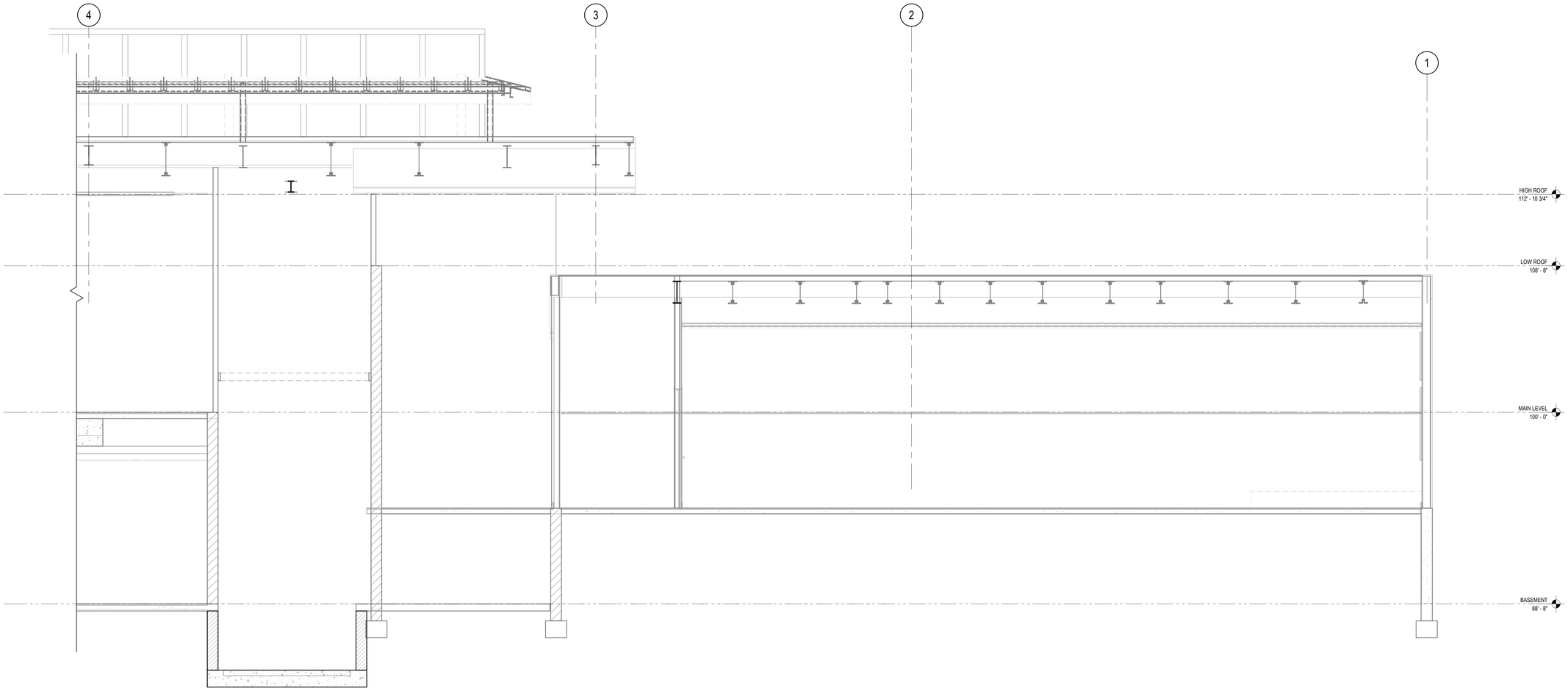


1 SECTION
3/8" = 1'-0"

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SHEET TITLE:

**BUILDING SECTIONS**

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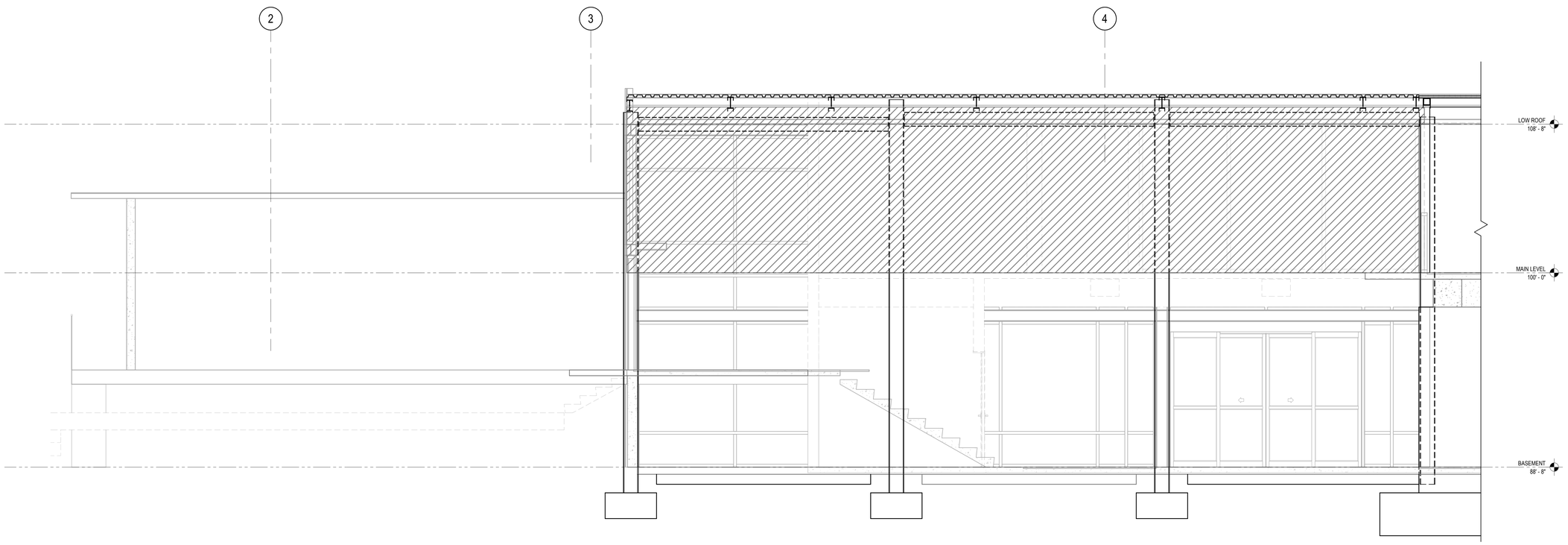


1 SECTION
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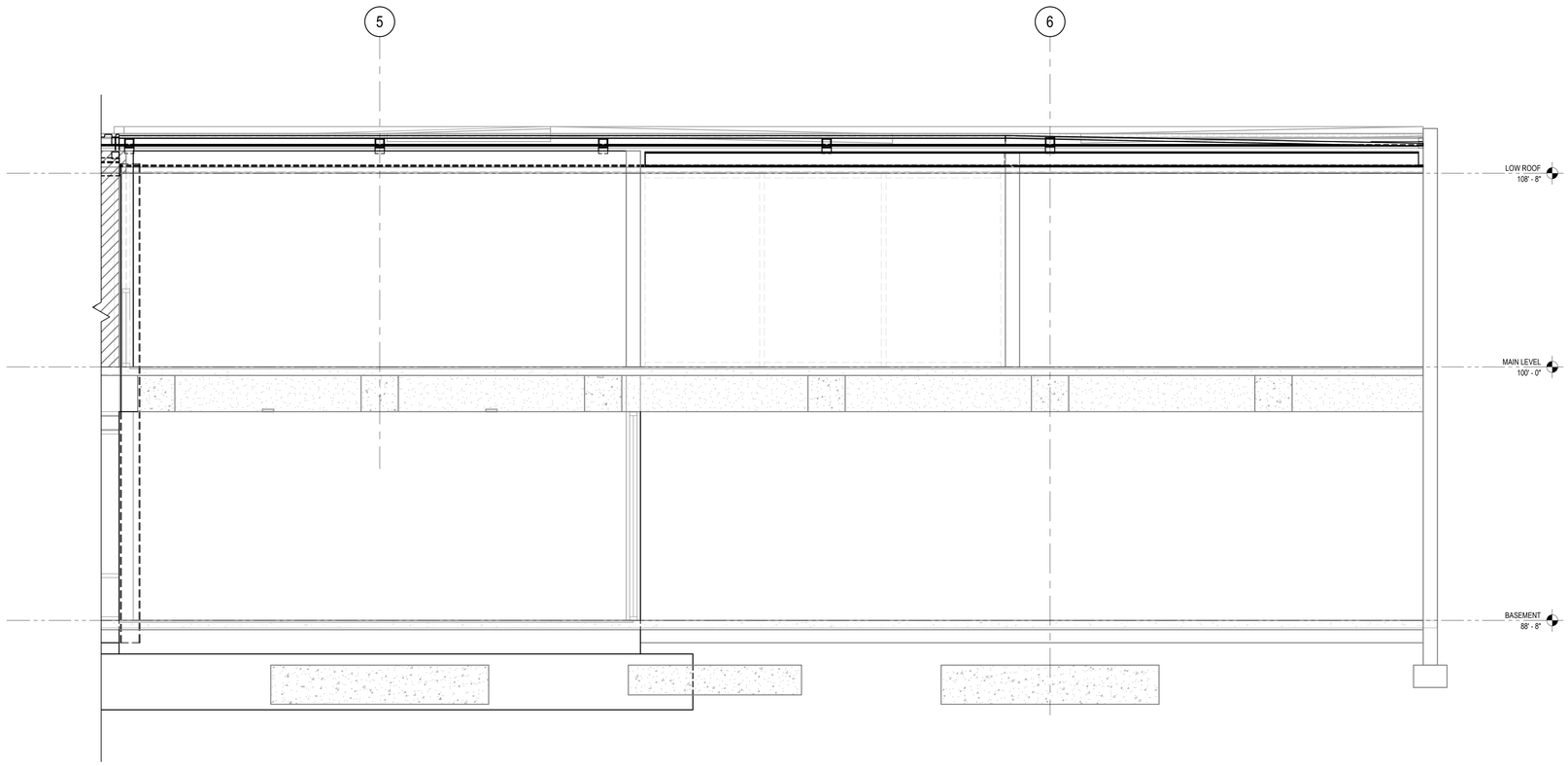


2 SECTION
3/8" = 1'-0"

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SHEET TITLE:

**BUILDING SECTIONS**

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## PAD FOOTING SCHEDULE

| MARK | LENGTH/WIDTH | THICKNESS | REINFORCING | REMARKS |
|---|---|---|---|---|
| F# | 36" SQ. | 18" | (4) #5 EA WAY BOTT | |
| F# | | | | |
| F# | | | | |
| F# | | | | |

NOTE:
COMBINE REINFORCEMENT AT ADJACENT FOOTINGS AS REQUIRED.

## WALL FOOTING SCHEDULE

| MARK | WIDTH | THICKNESS | LONGITUDINAL REINFORCING | TRANSVERSE REINFORCING | REMARKS |
|---|---|---|---|---|---|
| WF# | 60" | 30" | (5) #5 TOP & BOTT | #6 @ 12"OC TOP & BOTT | |
| WF# | | | | | |
| WF# | | | | | |
| WF# | | | | | |

NOTE:
COMBINE REINFORCEMENT AT ADJACENT FOOTINGS AS REQUIRED.

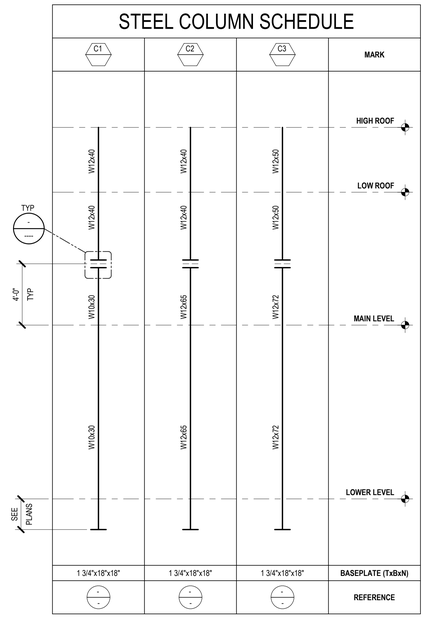
## COLUMN SCHEDULE

| MARK | SIZE | BASEPLATE | REMARKS |
|---|---|---|---|
| C# | HSS6x4x1/2 | | |
| C# | | | |
| C# | | | |
| C# | | | |

## CMU WALL SCHEDULE

| THICKNESS | REINFORCING |
|---|---|
| | |

## STEEL COLUMN SCHEDULE





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**FOUNDATION LEGEND AND SCHEDULES**

SCALE: As indicated


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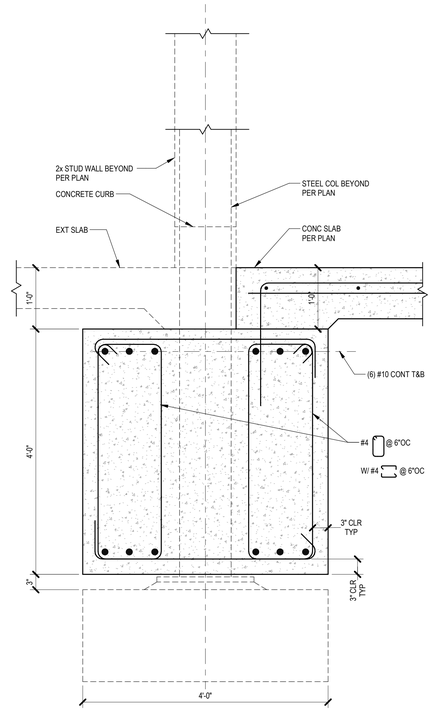
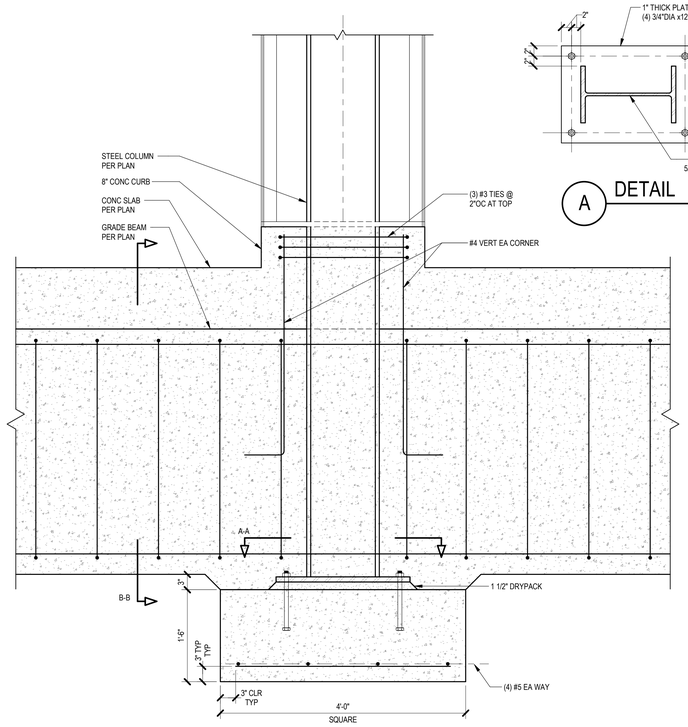



B SECTION







A DETAIL

10 COLUMN TO PAD FOOTING AT GRADE BEAM

1" = 1'-0"

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**FOUNDATION DETAILS**

SCALE: 1" = 1'-0"

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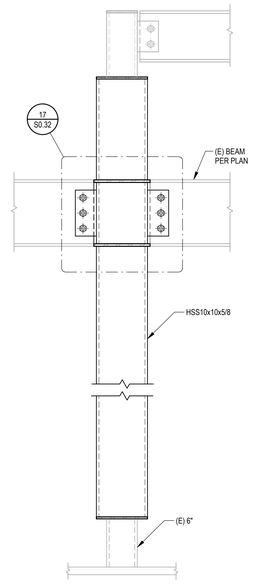
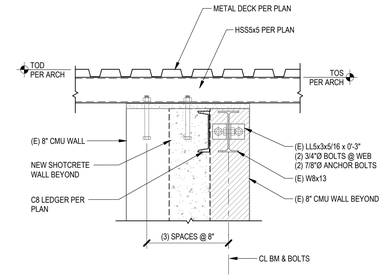
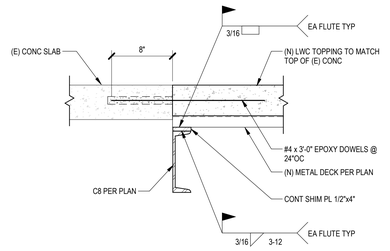



## 2 DETAIL
1" = 1'-0"




## 3 NEW LEDGER TO SHOTCRETE WALL
1" = 1'-0"




## 4 ELEVATED CONCRETE SLAB INFILL
1 1/2" = 1'-0"

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## MECHANICAL SYMBOLS

| | | |
|---|---|---|
| | CD | CEILING DIFFUSER - SUPPLY |
| | SAD | SUPPLY AIR DUCT - RISER |
| | SAD | SUPPLY AIR DUCT - DROP |
| | RAG | RETURN AIR GRILLE |
| | RAD | RETURN AIR DUCT - RISER |
| | RAD | RETURN AIR DUCT - DROP |
| | EAG | EXHAUST AIR GRILLE |
| | EAD | EXHAUST AIR DUCT - RISER |
| | EAD | EXHAUST AIR DUCT - DROP |
| | SWS | SIDE WALL SUPPLY GRILLE |
| | SWR | SIDE WALL RETURN/EXHAUST GRILLE |
| UP | | DUCT OFFSET UP |
| | | LINED DUCT |
| | | DUCT OR EQUIPMENT TO BE REMOVED |
| | | EXISTING DUCT TO REMAIN |
| | | DUCT |
| | | **DUCT TRANSITION** |
| | MVD | MANUAL VOLUME DAMPER |
| BDD | BDD | BACKDRAFT DAMPER |
| | AFD | AUTOMATIC FIRE DAMPER |
| | CSFD | COMBINATION SMOKE/FIRE DAMPER |
| CHWS | | CHILLED WATER SUPPLY PIPE |
| CHWR | | CHILLED WATER RETURN PIPE |
| HWS | | HOT WATER SUPPLY PIPE |
| HWR | | HOT WATER RETURN PIPE |
| CWS | | CONDENSER WATER SUPPLY PIPE |
| CWR | | CONDENSER WATER RETURN PIPE |

| | | |
|---|---|---|
| | | PRESSURE REDUCING VALVE |
| | | ISOLATION VALVE (BALL) |
| | | ISOLATION VALVE (BUTTERFLY) |
| | | MOTORIZED CONTROL VALVE |
| | | CHECK VALVE |
| | | THERMOMETER |
| P | | PRESSURE GAUGE |
| 2" | | **SMACNA DUCT STATIC PRESSURE CLASS** |
| | POD | POINT OF DEMOLITION |
| | POC | POINT OF CONNECTION |
| M | | MOTORIZED DAMPER |
| T / TS | | THERMOSTAT / SENSOR. MOUNT @ +48" AFF (IF MOUNTED OVER CASEWORK OR OTHER OBSTRUCTION 46" TO TOP OF DEVICE). |
| TC | | TIME CLOCK |
| DD | | DUCT SMOKE DETECTOR (MOUNT BELOW ROOF) |
| $CO_2$ | | CARBON DIOXIDE SENSOR FOR OUTSIDE AIR MODULATION |
| D/L 1.0 | DL | DOOR LOUVER W/ MINIMUM FREE AREA (SQ. FT.) |
| U/C | UC | UNDER CUT DOOR |
| X | | DETAIL NUMBER |
| M-X | | DETAIL DESIGNATION |
| | | DRAWING NUMBER |
| | | EQUIPMENT DESCRIPTION |
| | | EQUIPMENT DESIGNATION |
| | | EQUIPMENT NUMBER |

## MECHANICAL MANDATORY MEASURES

### EQUIPMENT AND SYSTEMS EFFICIENCY

ANY APPLIANCE FOR WHICH THERE IS A CALIFORNIA STANDARD ESTABLISHED IN THE APPLIANCE EFFICIENCY STANDARDS SHALL COMPLY WITH THAT STANDARD.

PIPING, EXCEPT THOSE CONVEYING FLUIDS WITH A DESIGN OPERATING TEMPERATURE BETWEEN 60° F AND 105°F, OR WITHIN SPACE-CONDITIONING EQUIPMENT CERTIFIED UNDER, §110.1 OR §110.2, SHALL BE INSULATED IN ACCORDANCE WITH §20.3

ALL AIR DISTRIBUTION SYSTEM DUCTS AND PLENUMS ARE REQUIRED TO BE INSTALLED, SEALED, AND INSULATED IN ACCORDANCE WITH THE CALIFORNIA MECHANICAL CODE (CMC) SECTIONS 601, 602, 603, 604, 605 AND ANSI/SMACNA-006-2006 HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE 3RD EDITION.

### VENTILATION

CONTROLS SHALL BE PROVIDED TO ALLOW OUTSIDE AIR DAMPERS OR DEVICES TO BE OPERATED AT THE VENTILATION RATES AS SPECIFIED IN THESE PLANS.

ALL GRAVITY VENTILATING SYSTEMS SHALL BE PROVIDED WITH AUTOMATIC OR READILY ACCESSIBLE MANUALLY OPERATED DAMPERS IN ALL OPENINGS TO THE OUTSIDE.

AIR BALANCING: ALL SPACE CONDITIONING AND VENTILATION SYSTEMS SHALL BE BALANCED TO THE QUANTITIES SPECIFIED IN THESE PLANS, IN ACCORDANCE WITH THE ASSOCIATED AIR BALANCE COUNCIL (AABC) NATIONAL STANDARDS.

GRAVITY OR AUTOMATIC DAMPERS INTERLOCKED AND CLOSED ON FAN SHUTDOWN SHALL BE PROVIDED ON THE OUTSIDE AIR INTAKES AND DISCHARGES OF ALL SPACE CONDITIONING AND EXHAUST SYSTEMS.

FANS USED FOR VENTILATION SHALL OPERATE CONTINUOUSLY DURING OCCUPIED HOURS.

THE MINIMUM OUTDOOR AIR LISTED OR THREE COMPLETE AIR CHANGES SHALL BE SUPPLIED TO THE ENTIRE BLDG. DURING THE ONE HOUR PERIOD IMMEDIATELY BEFORE THE BLDG. IS NORMALLY OCCUPIED.

### CONTROLS

EACH SPACE CONDITIONING ZONE SHALL BE CONTROLLED BY AN INDIVIDUAL THERMOSTATIC CONTROL THAT RESPONDS TO THE SUPPLY OF HEATING AND COOLING ENERGY WITHIN THAT ZONE §§20.2(a). WHEN USED TO CONTROL HEATING, THE THERMOSTATIC CONTROL MUST BE ADJUSTABLE DOWN TO 55°F OR LOWER. FOR COOLING, THE THERMOSTATIC CONTROL MUST BE ADJUSTABLE UP TO 85°F OR HIGHER. WHEN USED TO CONTROL BOTH HEATING AND COOLING, THE THERMOSTATIC THE CONTROL MUST BE ADJUSTABLE FROM 55°F TO 85°F AND ALSO PROVIDE A DEAD BAND OF AT LEAST 5° F WITHIN WHICH THE SUPPLY OF HEATING AND COOLING IS SHUT OFF OR REDUCED TO A MINIMUM.

EACH SPACE CONDITIONING SYSTEM SERVING BUILDING TYPES SUCH AS OFFICES AND MANUFACTURING FACILITIES (AND ALL OTHERS NOT EXPLICITLY EXEMPT FROM THE REQUIREMENTS OF SECTION 112 (D)) SHALL BE INSTALLED WITH AN AUTOMATIC TIME SWITCH WITH AN ACCESSIBLE MANUAL OVERRIDE THAT ALLOWS OPERATION OF THE SYSTEM DURING OFF-HOURS FOR UP TO 4 HOURS. THE TIME SWITCH SHALL BE CAPABLE OF PROGRAMMING DIFFERENT SCHEDULES FOR WEEKDAYS OR WEEKENDS; INCORPORATE AN AUTOMATIC HOLIDAY "SHUTOFF" FEATURE THAT TURNS OFF ALL LOADS FOR AT LEAST 24 HOURS, THEN RESUMES THE NORMALLY SCHEDULED OPERATION; AND HAS PROGRAM BACKUP CAPABILITIES THAT PREVENT THE LOSS OF THE DEVICES PROGRAM AND TIME SETTING FOR AT LEAST 10 HOURS IF POWER IS INTERRUPTED.

SYSTEM WITH DDC TO THE §110.2(c) ARE ALSO REQUIRED TO HAVE AUTOMATIC DEMAND SHED CONTROLS.

EACH SPACE CONDITIONING SYSTEM MUST BE PROVIDED WITH CONTROLS THAT CAN AUTOMATICALLY SHUT OFF THE EQUIPMENT DURING UNOCCUPIED HOURS. WHEN SHUT DOWN, THE CONTROLS SHALL AUTOMATICALLY RESTART THE SYSTEM TO MAINTAIN A SETBACK HEATING THERMOSTAT SETPOINT, IF THE SYSTEM PROVIDES MECHANICAL HEATING AND SETUP COOLING THERMOSTAT SETPOINT, IF THE SYSTEM PROVIDES MECHANICAL COOLING.

THERMOSTATS SHALL HAVE NUMERIC SETPOINTS IN DEGREES FAHRENHEIT (F) AND ADJUSTABLE STOPS ACCESSIBLE ONLY BY AUTHORIZED PERSONNEL.

## MECHANICAL ABBREVIATIONS

| | |
|---|---|
| - A - | |
| ABV | ABOVE |
| A/C | AIR CONDITIONER |
| AFF | ABOVE FINISH FLOOR |
| AFUE | ANNUAL FUEL UTILIZATION EFFICIENCY |
| AI | ANALOG INPUT |
| AO | ANALOG OUTPUT |
| AP | ACCESS PANEL |
| - B - | |
| BDD | BACKDRAFT DAMPER |
| BEL | BELOW |
| BLDG | BUILDING |
| BTUH | BRITISH THERMAL UNITS PER HOUR |
| - C - | |
| CD | CEILING DIFFUSER |
| CFM | CUBIC FEET PER MINUTE |
| CO | CARBON MONOXIDE |
| COMP | COMPRESSOR |
| CONT | CONTINUATION |
| - D - | |
| DDC | DIRECT DIGITAL CONTROL |
| DEG | DEGREE |
| DI | DIGITAL INPUT |
| DIA | DIAMETER |
| DN | DOWN |
| DO | DIGITAL OUTPUT |
| DTR | DOWN THRU ROOF |
| DWD | DOUBLE WALL DUCT |
| DWG | DRAWING |
| DX | DIRECT EXPANSION |
| - E - | |
| (E) | EXISTING |
| EA | EXHAUST AIR |
| EAD | EXHAUST AIR DUCT |
| EAT | ENTERING AIR TEMPERATURE |
| EER | ENERGY EFFICIENCY RATIO |
| EFF | EFFICIENCY |
| EG | EXHAUST GRILLE |
| EMS | ENERGY MANAGEMENT SYSTEM |
| EQUIP | EQUIPMENT |
| ESP | EXTERNAL STATIC PRESSURE |
| EWT | ENTERING WATER TEMPERATURE |
| - F - | |
| FAI | FRESH AIR INTAKE |
| FLR | FLOOR |
| FPI | FINS PER INCH |
| FT | FOOT, FEET |
| - G - | |
| GA | GAUGE |
| GI | GALVANIZED IRON |
| GPM | GALLONS PER MINUTE |
| - H - | |
| HP | HORSEPOWER |
| HR | HOUR |
| HVAC | HEATING VENTILATING AND AIR CONDITIONING |
| HW | HOT WATER |
| HZ | HERTZ |
| - I - | |
| IN. | INCHES |
| - K - | |
| KW | KILOWATT |
| - L - | |
| (L) | LINED DUCT |
| LAT | LEAVING AIR TEMPERATURE |
| LB | POUND |
| LWT | LEAVING WATER TEMPERATURE |

| | |
|---|---|
| - M - | |
| MA | MIXED AIR |
| MAX | MAXIMUM |
| MB | MACHINE BOLT |
| MBH | 1000 BRITISH THERMAL UNITS PER HOUR |
| MCA | MINIMUM CIRCUIT AMPACITY |
| MECH | MECHANICAL |
| MFR | MANUFACTURER |
| MIN | MINIMUM |
| MOCP | MAXIMUM OVERCURRENT PROTECTION |
| MS | MOTOR STARTER |
| MTD | MOUNTED |
| - N - | |
| NC | NOISE CRITERIA |
| NC | NORMALLY CLOSED |
| NG | NATURAL GAS |
| NIC | NOT IN CONTRACT |
| NO | NORMALLY OPEN |
| NPS | NOMINAL PIPE SIZE |
| NTS | NOT TO SCALE |
| - O - | |
| OA | OUTSIDE AIR |
| OC | ON CENTER |
| ODP | OUTDOOR DRIP PROOF |
| OPER | OPERATING |
| OSA | OUTSIDE AIR |
| - P - | |
| P.D. | PRESSURE DROP |
| PH | PHASE |
| PSI | POUNDS PER SQUARE INCH |
| - Q - | |
| QTY | QUANTITY |
| - R - | |
| RA | RETURN AIR |
| RAD | RETURN AIR DUCT |
| RG | RETURN GRILLE |
| RL | REFRIGERATION LIQUID |
| RPM | REVOLUTIONS PER MINUTE |
| RS | REFRIGERATION SUCTION |
| - S - | |
| SA | SUPPLY AIR |
| SAD | SUPPLY AIR DUCT |
| SENS | SENSIBLE |
| SF | SUPPLY FAN |
| SMS | SHEET METAL SCREW |
| SOV | SHUT OFF VALVE |
| S.P. | STATIC PRESSURE |
| SQ | SQUARE |
| S/S | STAINLESS STEEL |
| SWR | SIDEWALL RETURN GRILLE |
| SWS | SIDEWALL SUPPLY GRILLE |
| SYM | SYMBOL |
| - T - | |
| TDH | TOTAL DYNAMIC HEAD |
| TG | TRANSFER GRILLE |
| TSTAT | THERMOSTAT |
| TYP | TYPICAL |
| - U - | |
| UNO | UNLESS NOTED OTHERWISE |
| UTR | UP THRU ROOF |
| - V - | |
| VAC | VOLTS ALTERNATING CURRENT |
| VFD | VARIABLE FREQUENCY DRIVE |
| - W - | |
| WT | WEIGHT |
| W/ | WITH |

## ACCEPTANCE TESTING

MANDATORY ACCEPTANCE TESTING PER TITLE 24, PART 6 SHALL BE AS FOLLOWS:

AN AABC AGENCY SHALL ACT AS THE ACCEPTANCE AGENT AND PERFORM WORK REQUIRED IN THE FOLLOWING ACCEPTANCE TESTS AS DESCRIBED IN CHAPTER 13 OF THE 2019 NONRESIDENTIAL COMPLIANCE MANUAL. THIS SHALL INCLUDE FILLING OUT, SIGNING, AND SUBMITTING APPLICABLE FORMS LISTED HEREIN.

NRCA-MCH-02-A - OUTDOOR AIR ACCEPTANCE
NRCA-MCH-03-A - CONSTANT VOLUME, SINGLE ZONE, UNITARY AIR CONDITIONER AND HEAT PUMP SYSTEMS.
NRCA-MCH-04-A - AIR DISTRIBUTION SYSTEMS ACCEPTANCE
NRCA-MCH-05-A - AIR ECONOMIZER CONTROLS ACCEPTANCE
NRCA-MCH-06-A - DEMAND CONTROL VENTILATION SYSTEMS ACCEPTANCE
NRCA-MCH-07-A - SUPPLY FAN VFD ACCEPTANCE
NRCA-MCH-08-A - VALVE LEAKAGE TEST
NRCA-MCH-09-A - SUPPLY WATER TEMPERATURE RESET CONTROLS ACCEPTANCE
NRCA-MCH-10-A - HYDRONIC SYSTEM VARIABLE FLOW CONTROL ACCEPTANCE
NRCA-MCH-11-A - AUTOMATIC DEMAND SHED CONTROL ACCEPTANCE
NRCA-MCH-12-A - FAULT DETECTION & DIAGNOSTICS (FDD) FOR PACKAGED DIRECT EXPANSION UNITS
NRCA-MCH-13-A - AUTOMATIC FAULT DETECTION & DIAGNOSTICS (FDD) FOR AIR HANDLING UNITS & ZONE TERMINAL UNITS ACCEPTANCE
NRCA-MCH-14-A - DISTRIBUTED ENERGY STORAGE DX AC SYSTEMS ACCEPTANCE
NRCA-MCH-15-A - THERMAL ENERGY STORAGE (TES) SYSTEM ACCEPTANCE
NRCA-MCH-16-A - SUPPLY AIR TEMPERATURE RESET CONTROLS ACCEPTANCE
NRCA-MCH-17-A - CONDENSER WATER SUPPLY TEMPERATURE RESET CONTROLS ACCEPTANCE
NRCA-MCH-18-A - ENERGY MANAGEMENT CONTROL SYSTEM ACCEPTANCE

SPECIFIC REQUIREMENTS AND ACCEPTANCE TESTING FORMS ARE AVAILABLE IN THE 2019 NONRESIDENTIAL COMPLIANCE MANUAL WHICH CAN BE DOWNLOADED FROM www.energy.ca.gov/title24/2019standards/.

## MECHANICAL SHEET INDEX


| SHEET NO. | DESCRIPTION |
|---|---|
| M001 | MECHANICAL GENERAL NOTES, ABBREVIATIONS & SYMBOLS |
| M002 | MECHANICAL SCHEDULES |
| M003 | MECHANICAL DETAILS |
| M004 | MECHANICAL DETAILS |
| M200 | LOWER LEVEL MECHANICAL DEMOLITION PLAN |
| M201 | MAIN LEVEL MECHANICAL DEMOLITION PLAN |
| M202 | LOWER LEVEL MECHANICAL PLAN |
| M203 | MAIN LEVEL MECHANICAL PLAN\ |
| M300 | MECHANICAL DEMOLITION ROOF PLAN |
| M301 | MECHANICAL ROOF PLAN |
| MD201 | LOWER LEVEL MECHANICAL PLAN - ADD ALTS |
| MD202 | MAIN LEVEL MECHANICAL PLAN - ADD ALTS |
| MD301 | MECHANICAL ROOF PLAN - ADD ALTS |


TOTAL SHEET= 13

## MECHANICAL GENERAL NOTES

1. ALL DUCT INSULATION TO HAVE MINIMUM 8.0 INSTALLED R-VALUE.
2. DUCT CONSTRUCTION SHALL BE GALVANIZED STEEL IN ACCORDANCE W/ CHAPTER 6 OF THE C.M.C., SUSPENSION SHALL CONFORM TO 006-2006 SMACNA STANDARDS. SEAL ALL SEAMS AND JOINTS AIR AND WATERTIGHT. FLEXIBLE ALUMINUM DUCT WORK IS NOT ALLOWED, DUCT TAPE IS NOT ALLOWED.
3. FLEXIBLE DUCTWORK & DUCTLINER SHALL HAVE FLAME SPREAD RATING NOT EXCEEDING 25, AND A SMOKE DEVELOPED RATING NOT EXCEEDING 50 WHEN TESTED IN ACCORDANCE WITH ASTM E84, NFPA 255 AND U.L. 723.
4. FLEXIBLE DUCTS SHALL CONSIST OF AN EXTERIOR REINFORCED LAMINATED VAPOR BARRIER, 3" FIBERGLASS INSULATION (R-8.0), ENCAPSULATED SPRING STEEL WIRE HELIX AND IMPERVIOUS, SMOOTH, NON-PERFORATED INTERIOR VINYL LINER. INDIVIDUAL LENGTHS OF FLEXIBLE DUCTS SHALL CONTAIN FACTORY FABRICATED STEEL CONNECTION COLLARS.
5. FLEXIBLE DUCTS SHALL BE SUPPORTED AT OR NEAR MID-LENGTH WITH 2" WIDE 28 GA. STEEL HANGER COLLAR ATTACHED TO THE STRUCTURE WITH AN APPROVED DUCT HANGER. INSTALLATION SHALL MINIMIZE SHARP RADIUS TURNS OR OFFSETS. 5' MAXIMUM LENGTH CONNECTING TO TERMINAL OUTLETS.
6. PROVIDE BACKDRAFT DAMPERS AT ALL EXHAUST AND FRESH AIR INTAKES.
7. THERMOSTATS SHALL BE AUTOMATIC CHANGEOVER TYPE TO SEQUENCE HEATING AND COOLING. SET POINT RANGE SHALL BE 10 DEG. F BETWEEN FULL HEATING AND FULL COOLING. ADJUSTABLE TEMPERATURE DIFFERENTIAL SHALL BE 1-1/2 DEG. F. THERMOSTAT CONTROL RANGE SHALL BE 55 DEG. F TO 85 DEG. F. CONTROLS SHALL HAVE CAPABILITY OF TERMINATING HEATING AT NO HIGHER THAN 78 DEG. F. AND COOLING AT NO LOWER THAN 70 DEG. F. FANS SHALL RUN CONTINUOUSLY DURING OCCUPIED HOURS.
8. LINE VOLTAGE WIRING, LINE VOLTAGE CONDUIT, UNDERGROUND LOW VOLTAGE CONDUIT, DISCONNECT SWITCHES AND FINAL CONNECTION BY ELECTRICAL CONTRACTOR. LOW VOLTAGE WIRING, ABOVE GROUND LOW VOLTAGE CONDUIT, & FINAL CONNECTION BY CONTROLS CONTRACTOR.
9. PROVIDE PERMANENT LABEL ON EACH A/C UNIT IDENTIFYING AREA/SPACE SERVED PER CMC 303.6. COORDINATE ROOM NUMBERS WITH OWNER. SEE 230553 FOR ADDITIONAL REQUIREMENTS.
10. SYSTEM AIR BALANCE SHALL BE PERFORMED BY AN INDEPENDENT AGENCY CERTIFIED BY THE AABC. THIS WORK SHALL CONFORM TO CURRENT AABC SPECIFICATIONS AND STANDARDS.
11. PROVIDE WRITTEN WARRANTY TO REPLACE ALL FAULTY MATERIALS AND/OR LABOR, AT NO COST TO OWNER, FOR A PERIOD OF ONE YEAR FROM DATE OF OWNER ACCEPTANCE. PROVIDE 5 YEAR COMPRESSOR WARRANTY AND 10 YEAR HEAT EXCHANGER WARRANTY FOR ALL A/C EQUIPMENT.
12. FOR THE PURPOSE OF CLEARNESS AND LEGIBILITY, THE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ALTHOUGH SIZES AND LOCATION OF EQUIPMENT IS DRAWN TO SCALE WHEREVER POSSIBLE, THE CONTRACTOR SHALL MAKE USE OF ALL DATA IN ALL OF THE CONTRACTOR DOCUMENTS AND VERIFY THIS INFORMATION BEFORE ORDERING, FABRICATING OR INSTALLING OF ANY MATERIALS.
13. UNLESS SPECIFICALLY SHOWN ON THESE PLANS, NO STRUCTURAL MEMBERS SHALL BE CUT, DRILLED, NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER.
14. ALL DUCT SIZES SHOWN ARE NET INSIDE DIMENSIONS AND DO NOT ACCOUNT FOR DUCT LINER THICKNESS WHERE APPLICABLE. ALL PIPE DIMENSIONS SHOWN ARE NOMINAL SIZES.
15. ALL BRANCH DUCTS SHALL BE PROVIDED WITH ACCESSIBLE MANUAL VOLUME DAMPERS.
16. PROVIDE FLEXIBLE CONNECTIONS TO ALL HVAC EQUIPMENT (A/C UNIT, FANS, ETC.)
17. INSTALLATION & MATERIALS SHALL CONFORM TO THE 2019 EDITION OF THE CALIFORNIA MECHANICAL CODE (CMC) & TITLE 24 PARTS 4 & 6.
18. CONTRACTOR SHALL PROVIDE AS-BUILTS, CAD GENERATED AND DRAWN TO 1/8" = 1'-0" SCALE. SUBMIT 6 SETS OF HARD COPIES AND 1 ELECTRONIC COPY ON CD-ROM. CAD DRAWINGS SHALL BE AUTOCAD, LATEST VERSION. COORDINATE REQUIREMENTS WITH OWNER.
19. VERIFY FINAL LOCATIONS OF THERMOSTATS AND SENSORS WITH FURNITURE PLANS AND OWNERS REPRESENTATIVE PRIOR TO INSTALLATION.

## PIPE AND DUCT SUPPORT NOTES

ALL BRACING OF DUCTS AND PIPING SHALL BE INSTALLED IN ACCORDANCE WITH "MASON" SEISMIC RESTRAINT GUIDELINES FOR SEISMIC RESTRAINT OF MECHANICAL SYSTEMS. OSHPD PRE-APPROVAL # OPM-0043-13.

WHERE ANCHORAGE & BRACING DETAILS ARE NOT SHOWN ON THE DRAWINGS OR IN THE GUIDELINES, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT, MECHANICAL ENGINEER AND THE INSPECTOR.

A COPY OF THE GUIDELINES PUBLISHED BY "MASON" SHALL BE PROVIDED BY THE CONTRACTOR AND KEPT ON THE JOB SITE AT ALL TIMES.

## SEISMIC NOTES

A) THE SEISMIC ANCHORAGE FOR ALL MECHANICAL AND ELECTRICAL EQUIPMENT SHALL BE DESIGNED TO WITHSTAND A LATERAL FORCE:
   1. CALCULATED AS SPECIFIED IN SECTION 1616A OF THE VOL. 2, TITLE 24, 2016 CBC.

B) THE CAPACITY OF THE ANCHORAGE CONNECTORS IN SHEAR AND/OR TENSION SHALL BE CLEARLY INDICATED IN THE CALCULATIONS, WHICH INDICATE, ICBO REPORT NO. (IF APPLICABLE) THEIR TOTAL NUMBER, SIZE, GRADE, EMBEDMENT, EDGE DISTANCES, AND OTHER FACTORS WHICH AFFECT THE CAPACITY IN SHEAR AND TENSION.

C) ANCHORAGE DETAILS FOR EQUIPMENT WHICH ARE NOT APPROVED DURING PLAN REVIEW ARE SUBJECT TO APPROVAL BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO INSTALLATION AND INSPECTION BY THE PROJECT INSPECTOR.


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PROJECT TITLE:

# Altadena Main Library

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ALTADENA, CA 91001

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| PROJECT NO. | 2111010 |
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## MECHANICAL GENERAL NOTES SYMBOLS AND ABBREVIATIONS

SCALE: N.T.S.


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M001

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# AIR CONDITIONING UNIT SCHEDULE

| SYM. | MFR./MODEL | AREA SERVED | COOLING (MBH) | | SEER / EER | HEATING INPUT/OUTPUT (MBH) | CFM | ESP (INCHES) W.G. | OSA CFM MIN. | ELECTRICAL | | | | POWER EXHAUST ELECTRICAL | | | | | SUPPLY FAN HP | OPER. WT. (LBS.) | REMARKS | BLDG. LOCATION | ANCHOR DETAIL REF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | SENSIBLE | TOTAL | | | | | | FLA | MCA | MOCP | VOLTAGE/PHASE | SYM. | HP | BHP | MCA | VOLTAGE/PHASE | | | | | |
| MZ 1 | SEASON 4 SA020 | BREAK RM, OPEN WORK, CHILDRENS | 187.5 | 253.427 | - / 11.4 | 400/320 | 9100 | 0.85 | - | - | 113 | 125 | 208 / 3 | PE 1 | 1.5 | 1.17 | 113 | 208 / 3 | | 7.5 | 6000 | FOUR STAGE COOLING, STAINLESS STEEL DRAIN PAN, HOT GAS BYPASS, ENTHALPY SENSOR WITH ECONOMIZER FAULT DETECTION & DIAGNOSTICS, POWER EXHAUST WITH VFD, BACNET MS/TP MODBUS & N2 COMMUNICATION CARD, CONTRACTOR TO INSTALL NEW CURB AND DUCT DETECTORS ON SUPPLY AND RETURN. COMPLETE WITH ISOLATION CURB. MODULATING POWER EXHAUST AND ECONOMIZER. | ROOF | - / M004 |
| MZ 2 | SEASON 4 SA020 | CHILDRENS, TWEENS, YOUNG ADULT | 187.5 | 253.427 | - / 11.4 | 400/320 | 9100 | 0.85 | - | - | 113 | 125 | 208 / 3 | PE 2 | 1.5 | 1.17 | 113 | 208 / 3 | | 7.5 | 6000 | | ROOF | - / M004 |
| MZ 3 | SEASON 4 SA020 | LOWER LOBBY MAKER SPACE TELE MTG | 187.5 | 253.427 | / 11.4 | 400/320 | 9100 | 0.85 | - | - | 113 | 125 | 208 / 3 | PE 3 | 1.5 | 1.17 | 113 | 208 / 3 | | 7.5 | 6000 | | ROOF | - / M004 |

# AIR CONDITIONING UNIT SCHEDULE

| SYM. | MFR./MODEL | AREA SERVED | COOLING (MBH) | | SEER / EER | HEATING(MBH) | | AFUE % | CFM | EVAPORATOR FAN BHP | ESP (INCHES) W.G. | OSA CFM MIN. | ELECTRICAL | | | POWER EXHAUST ELECTRICAL | | | | | OPER. WT. (LBS.) | REMARKS | BLDG. LOCATION | ANCHOR DETAIL REF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | SENSIBLE | TOTAL | | INPUT | OUTPUT | | | | | | MCA | MOCP | VOLTAGE/PHASE | SYM. | HP | FLA | MCA | VOLTAGE/PHASE | | | | |
| AC 1 | TRANE YHJ090 | **COMMUNITY 201** | 75.60 | 95.26 | 16.6 / 12.1 | 150.0 | 121.5 | 80 | 3200 | 0.98 | 0.50 | - | 20 | 25 | 208 / 3 | - / - | 1 | 3.8 | 4.8 | 208 / 3 | 1700 | **COMPLETE WITH ISOLATION ROOF CURB, MODULATING POWER EXHAUST, ECONOMIZER, DCV, ULTRA LOW NOX, AND ELECTROMECHANICAL CONTROLS. CONNECT TO EMS. PROVIDE WITH MERV 13 FILTER.** | ROOF | - / M004 |
| AC 2 | TRANE YHJ240 | **COMMUNITY 114** | 187.68 | 247.20 | 16.3 / 10.8 | 250.0 | 202.5 | 81 | 8000 | 3.0 | 0.80 | - | 108.0 | 125.0 | 208 / 3 | PE 4 | 2 | 13.6 | 17.0 | 208 / 3 | 3400 | **COMPLETE WITH ISOLATION ROOF CURB, MODULATING POWER EXHAUST, ECONOMIZER, DCV, ULTRA LOW NOX, AND ELECTROMECHANICAL CONTROLS. CONNECT TO EMS. PROVIDE WITH MERV 13 FILTER.** | ROOF | - / M004 |

* OPERATING WEIGHT INCLUDES CURB, ACCESSORIES AND UNIT WEIGHT.

* FULLY AUTOMATIC FIRE ALARM SYSTEM INSTALLED. COORDINATE WITH FIRE ALARM CONTRACTOR FOR UNIT SHUT DOWN. TYPICAL FOR ALL UNITS EXCEEDING 2000 CFM.

# EXHAUST FAN SCHEDULE

| SYM. | MFR./MODEL | TYPE | CFM | S.P. INCHES | RPM | SONES | ELECTRICAL | | | OPER. WT. (LBS.) | REMARKS | BLDG. LOCATION | ANCHORAGE DETAIL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | WATT | HP | VOLTAGE/PHASE | | | | |
| EF 1 | **GREENHECK GB-100** | **ROOF** | **660** | **0.50** | **1226** | **5.5** | - | **1/4** | 115 / 1 | **100** | PROVIDE W/ ROOF CURB, TEFC MOTOR, BACK DRAFT DAMPER. INTERLOCK WITH BAS. | RESTROOM LOWER LVL | - / M004 |
| EF 2 | **GREENHECK GB-100** | **ROOF** | **660** | **0.50** | **1226** | **5.5** | - | **1/4** | 115 / 1 | **100** | PROVIDE W/ ROOF CURB, TEFC MOTOR, BACK DRAFT DAMPER. INTERLOCK WITH BAS. | RESTROOM MAIN LVL | - / M004 |
| EF 3 | **GREENHECK SPA 90** | **CEILING** | **100** | **0.125** | **900** | **0.3** | **16** | - | 115 / 1 | **15** | PROVIDE W/ ROOF CURB, CAP, BACK DRAFT DAMPER. INTERLOCK WITH LIGHT SWITCH. | FAMILY RESTROOM | |
| EF 4 | **GREENHECK SPA 90** | **CEILING** | **100** | **0.125** | **900** | **0.3** | **16** | - | 115 / 1 | **15** | PROVIDE W/ ROOF CURB, CAP, BACK DRAFT DAMPER. INTERLOCK WITH LIGHT SWITCH. | STAFF RESTROOM | |

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## MECHANICAL SCHEDULE4S

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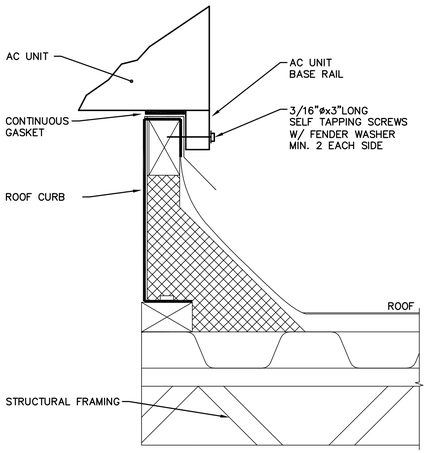
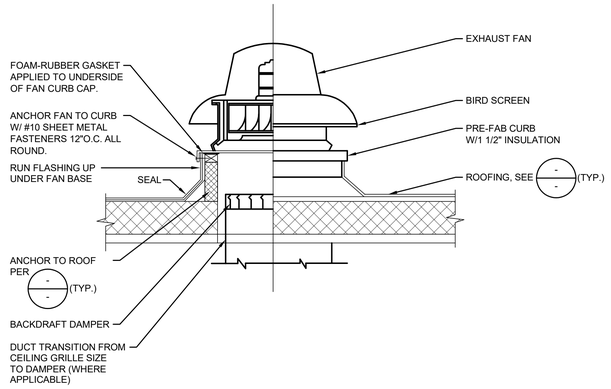
M002



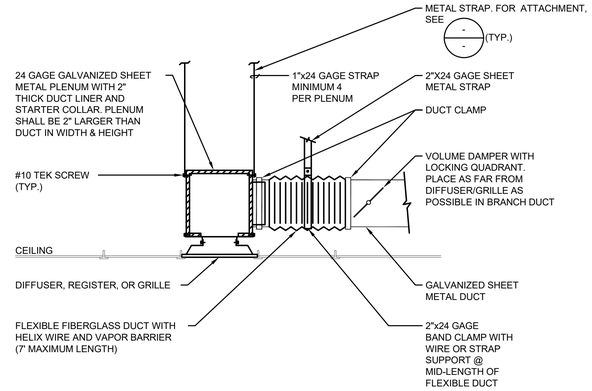

## AC MOUNTING ON ROOF DETAIL

SCALE: NONE | 1



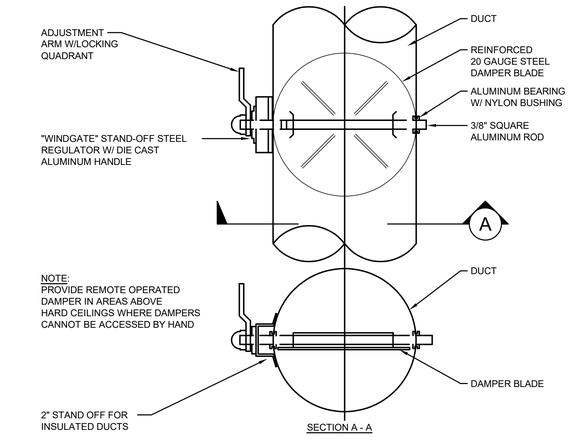

## EXHAUST FAN MOUNTING DETAIL

SCALE: NONE | 2



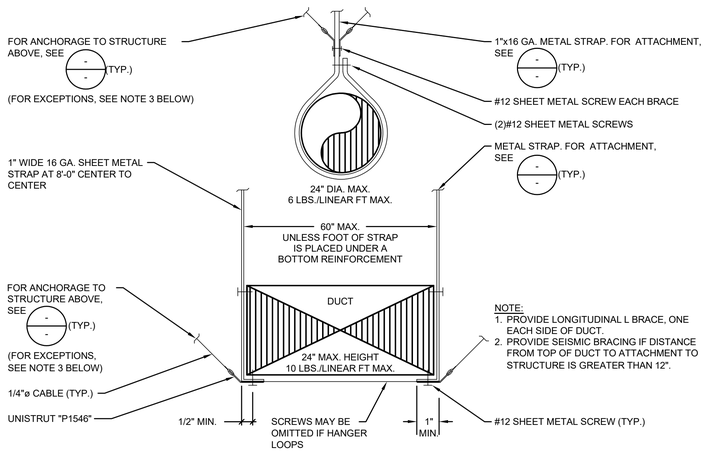

## AIR DISTRIBUTION DETAIL DETAIL

SCALE: NONE | 3



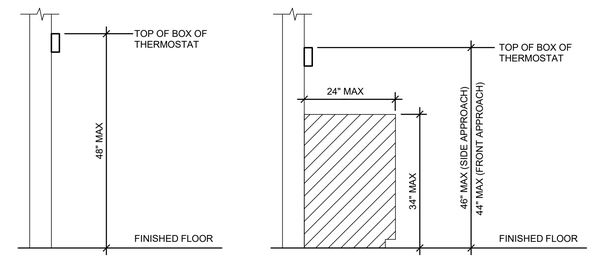

## ROUND DUCT VOLUME DAMPER DETAIL

SCALE: NONE | 4




## CONCEALED DUCT SUPPORT DETAIL

SCALE: NONE | 5




NOTE:
FORWARD OR FRONT APPROACH FOR DEVICES MOUNTED ABOVE COUNTERS ASSUMES THAT DIRECTLY BELOW THE DEVICE, THE COUNTER HAS A 30" MIN. WIDTH x 27" MIN. HIGH x 19" MIN. DEEP CLEAR OPENING.

## THERMOSTAT MOUNTING DETAIL

SCALE: NONE | 6

SCALE: NONE | 7

SCALE: NONE | 8

SCALE: NONE | 9

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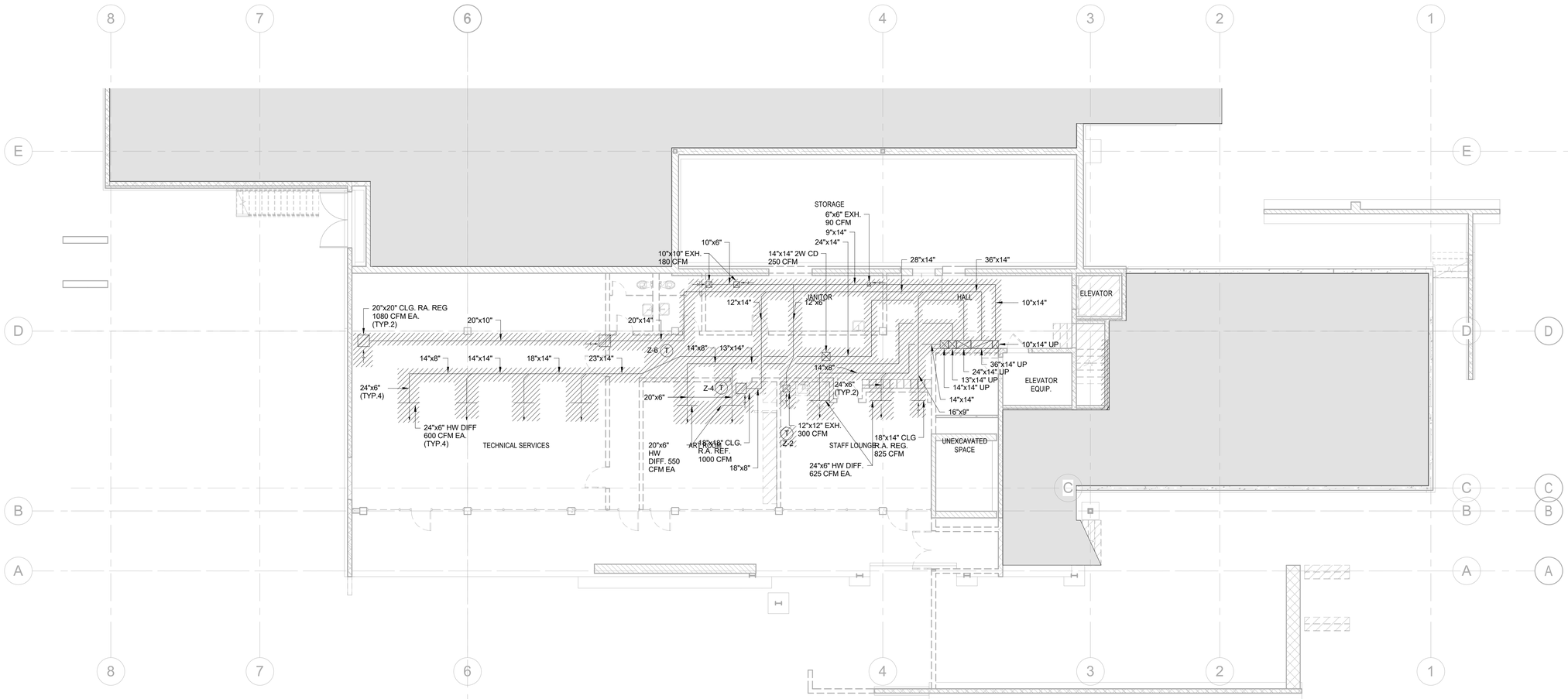


1 LOWER LEVEL MECHANICAL DEMOLITION PLAN
1/8" = 1'-0"

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## LOWER LEVEL MECHANICAL DEMOLITION PLAN

SCALE: 1/8" = 1'-0"


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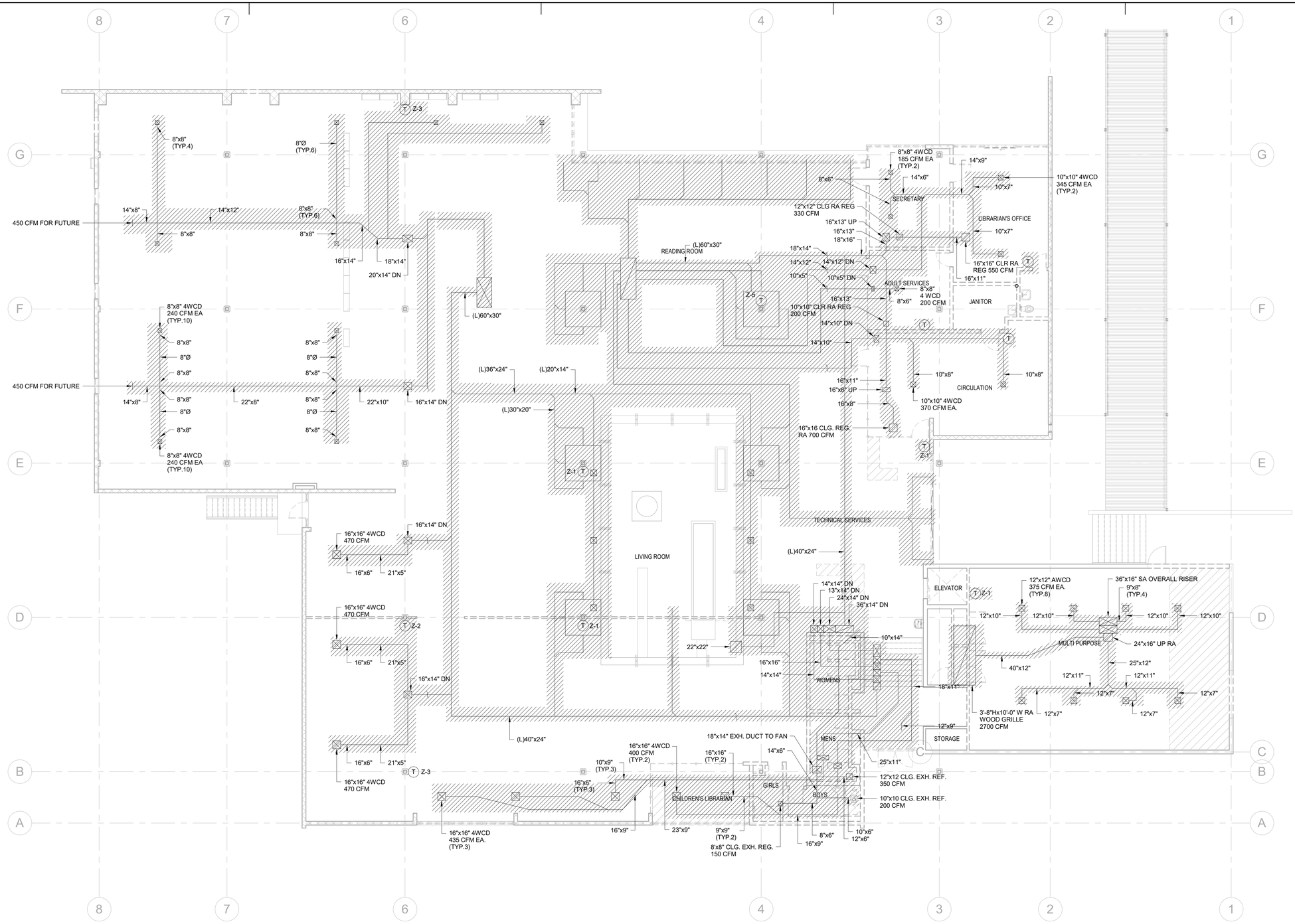


1 MAIN LEVEL MECHANICAL DEMOLITION PLAN
1/8" = 1'-0"

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PROJECT TITLE:

# Altadena Main Library

600 E MARIPOSA STREET
ALTADENA, CA 91001

| | |
|---|---|
| PROJECT NO. | 2111010 |
| DATE: | Issue Date |

SHEET TITLE:

## MAIN LEVEL MECHANICAL DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

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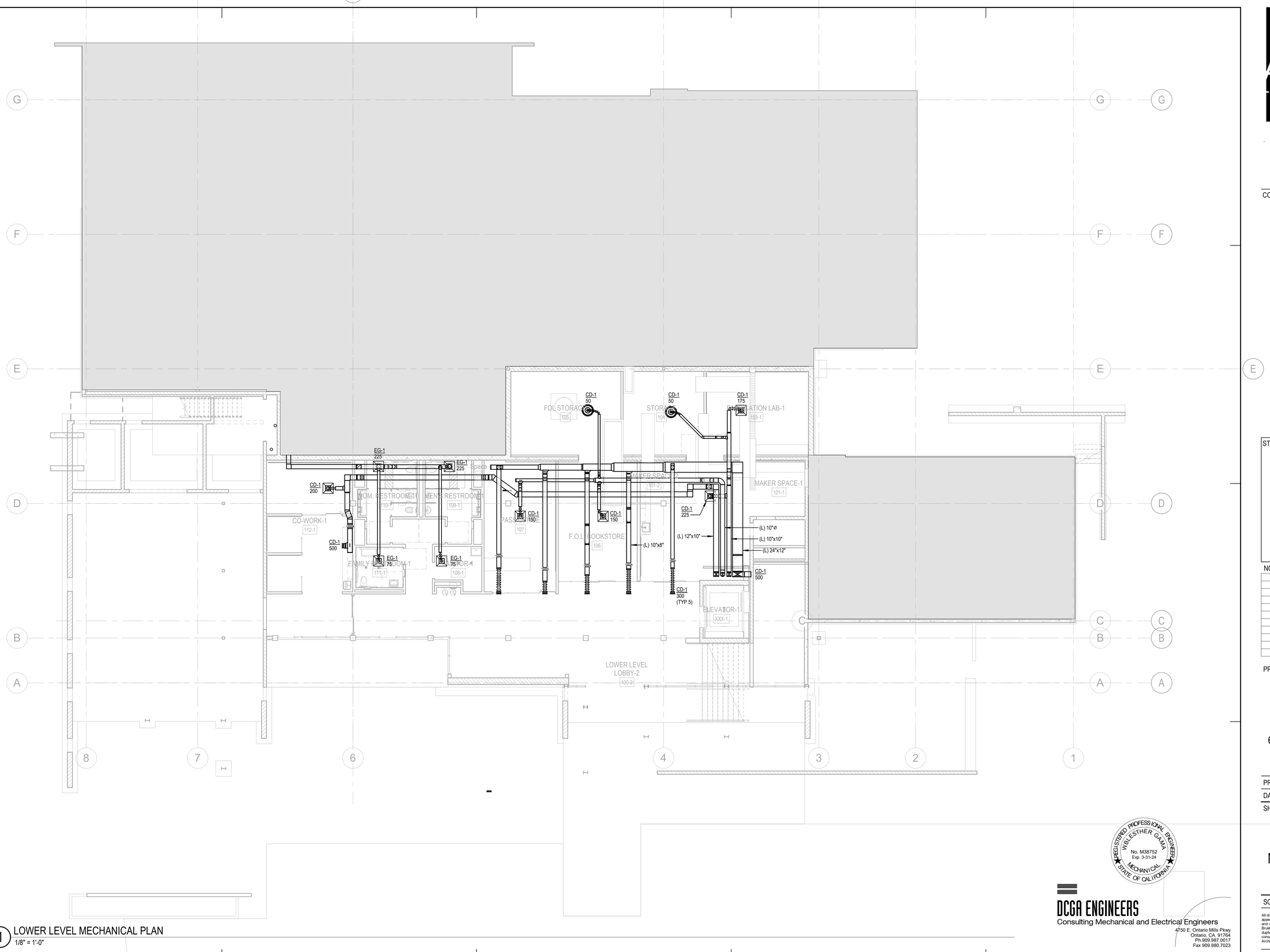


1 LOWER LEVEL MECHANICAL PLAN
1/8" = 1'-0"

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SHEET TITLE:

## LOWER LEVEL MECHANICAL PLAN

SCALE: 1/8" = 1'-0"

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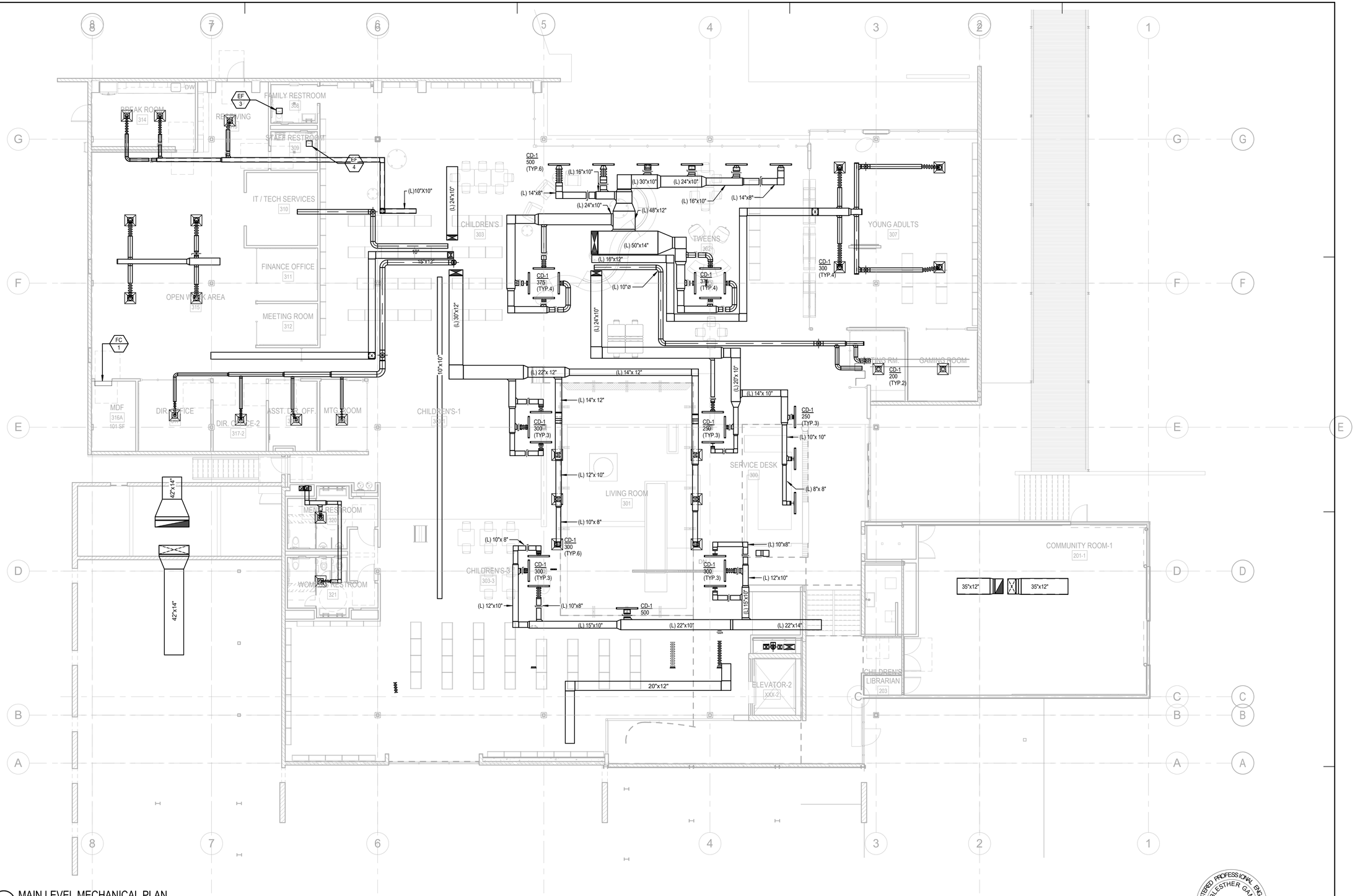


1 MAIN LEVEL MECHANICAL PLAN
1/8" = 1'-0"

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## MAIN LEVEL MECHANICAL PLAN

SCALE: 1/8" = 1'-0"

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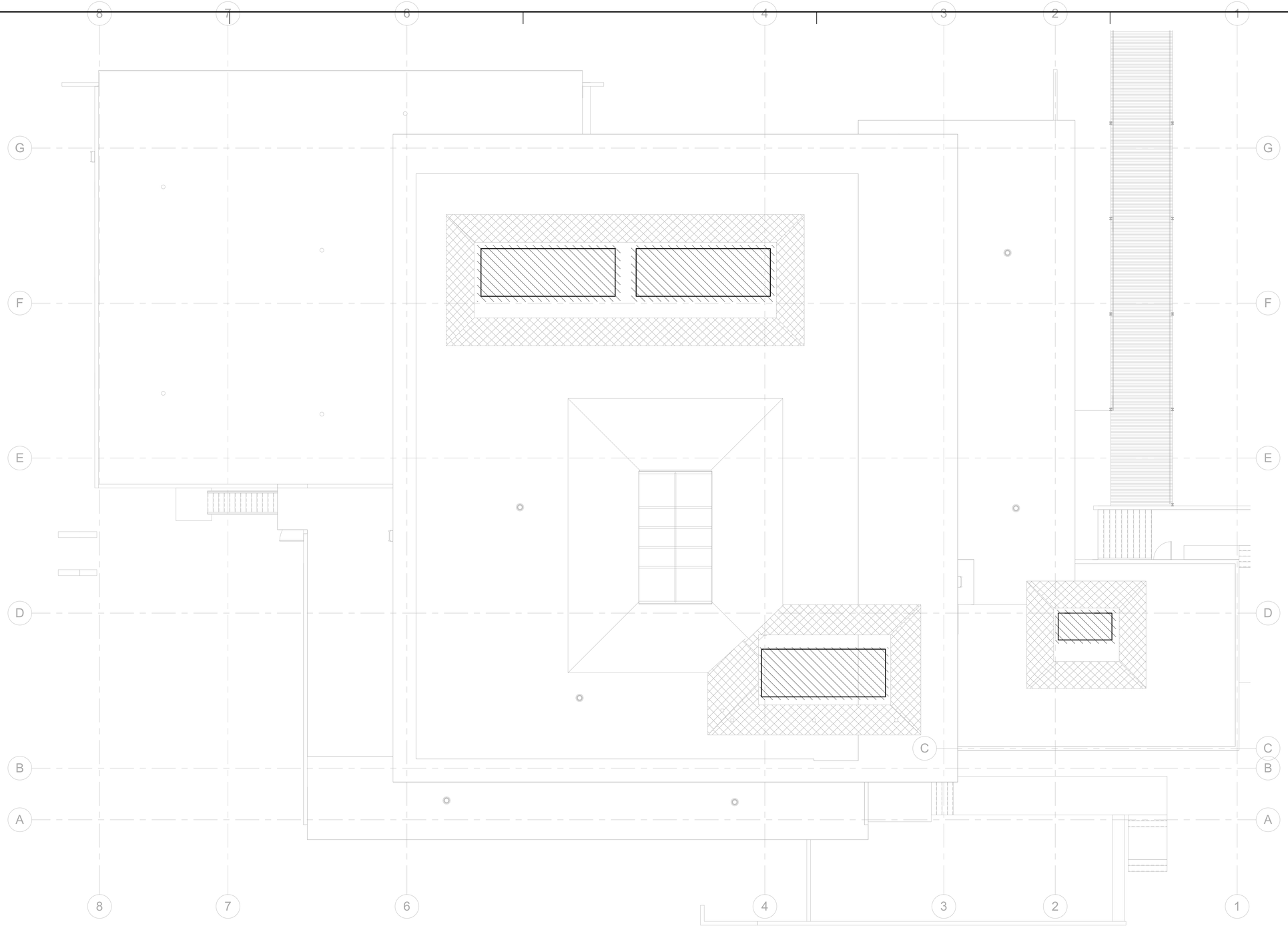


1 MECHANICAL DEMOLITION ROOF PLAN
1/8" = 1'-0"

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## MECHANICAL DEMOLITION ROOF PLAN

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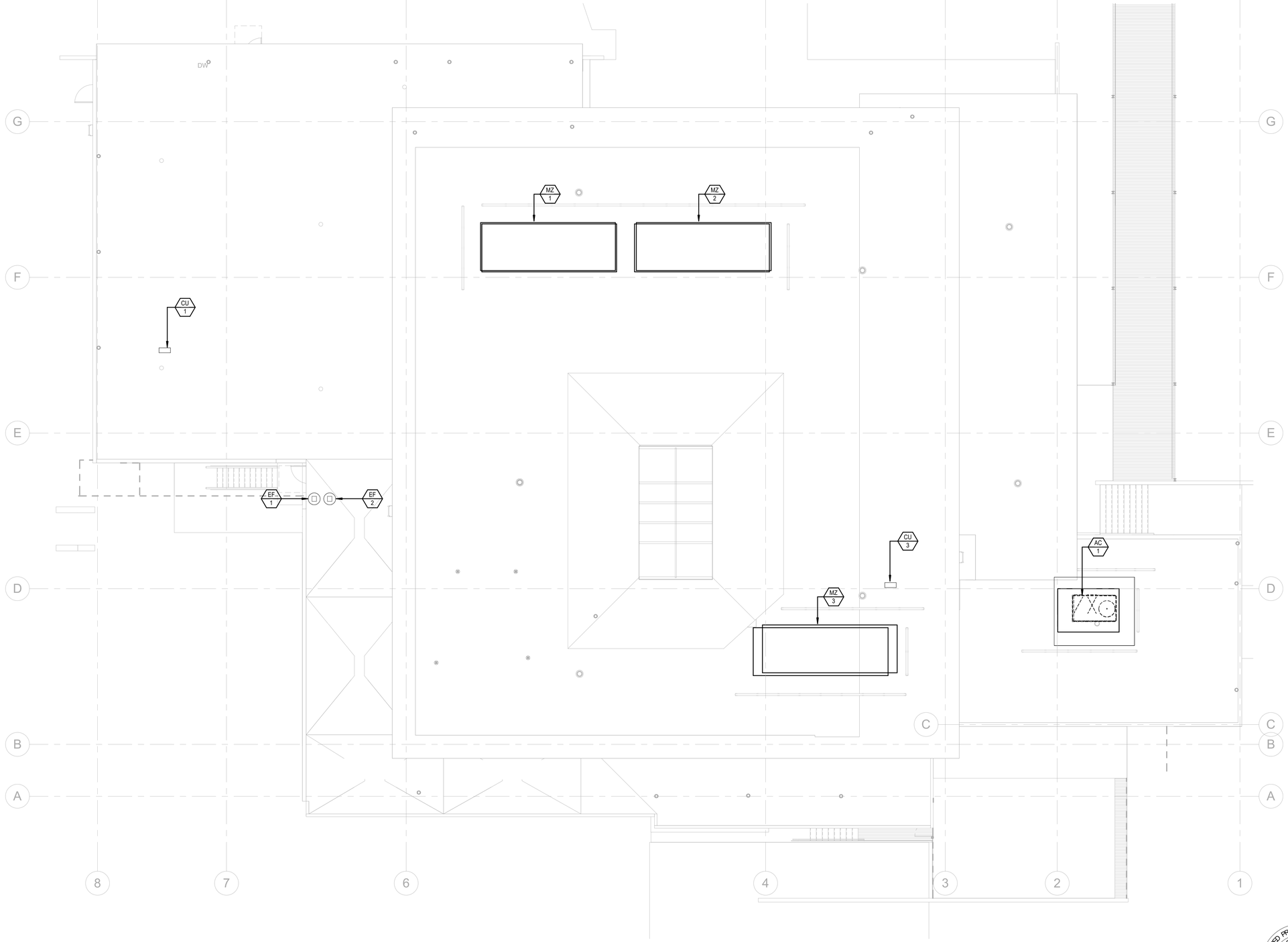


1 MECHANICAL ROOF PLAN
1/8" = 1'-0"

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## MECHANICAL ROOF PLAN

SCALE: 1/8" = 1'-0"

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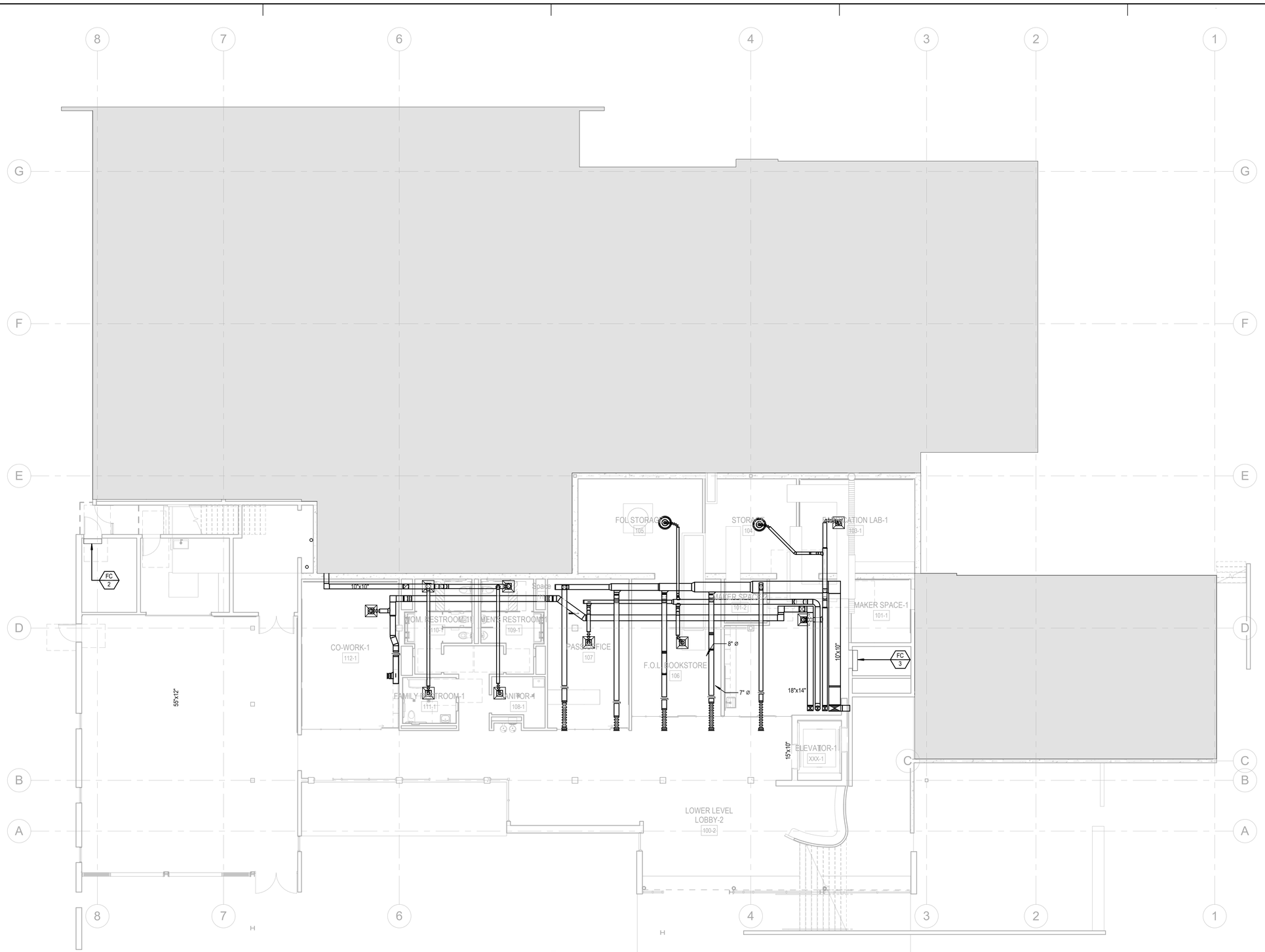


1 LOWER LEVEL MECHANICAL PLAN - ADD ALTS
1/8" = 1'-0"

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## LOWER LEVEL MECHANICAL PLAN - ADD ALTS

SCALE: 1/8" = 1'-0"

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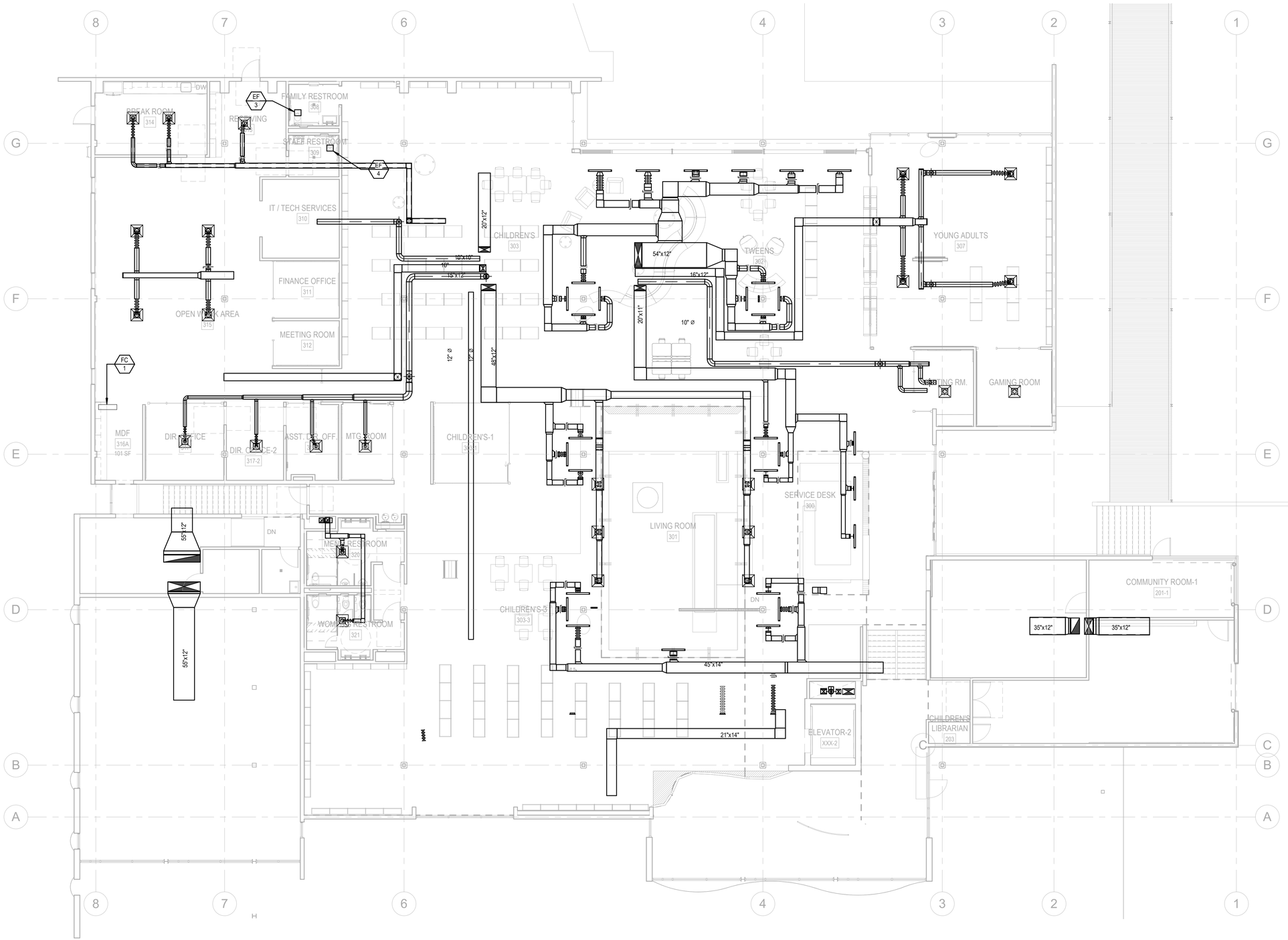


1 MAIN LEVEL MECHANICAL PLAN - ADD ALTS
1/8" = 1'-0"

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SHEET TITLE:

## MAIN LEVEL MECHANICAL PLAN - ADD ALTS

SCALE: 1/8" = 1'-0"

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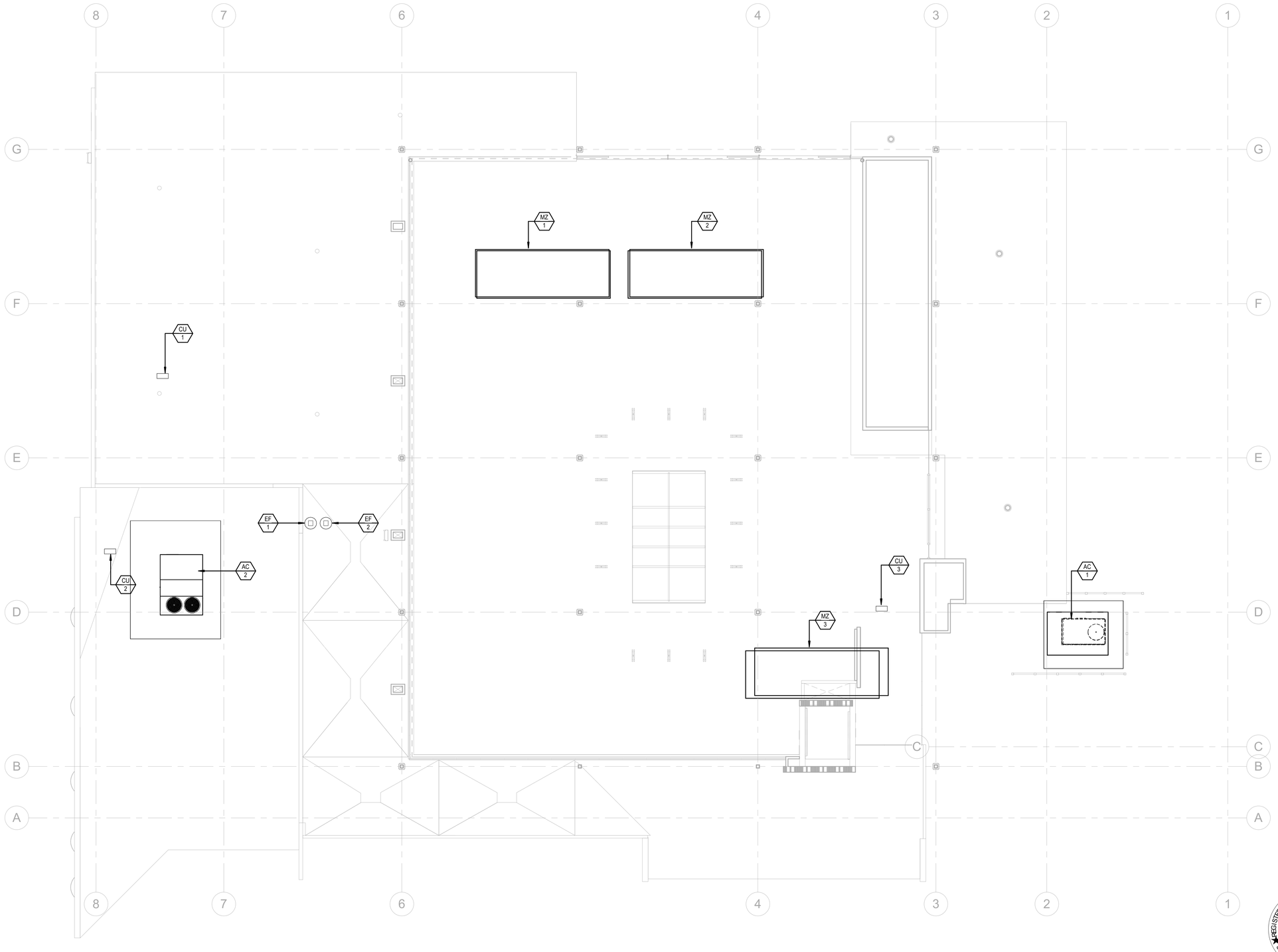


1 MECHANICAL ROOF PLAN - ADD ALTS
1/8" = 1'-0"

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## MECHANICAL ROOF PLAN - ADD ALTS

SCALE: 1/8" = 1'-0"

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## PLUMBING SYMBOLS

RPBFP — REDUCED PRESSURE BACKFLOW PREVENTER (RPBFP)

FLOOR DRAIN, AREA DRAIN

ROOF DRAIN, OVERFLOW DRAIN

FLOOR SINK

REDUCER

UNION

FLEXIBLE CONNECTOR

STRAINER

WATER HAMMER ARRESTER BEHIND ACCESS PANEL

TRAP PRIMER BEHIND ACCESS PANEL

PRESSURE GAUGE WITH PET COCK

THERMOMETER

TEMPERATURE/PRESSURE RELIEF VALVE & PRESSURE RELIEF VALVE

AIR RELIEF VALVE

CHECK VALVE

SHUT-OFF VALVE

VALVE ON RISER

BALANCING VALVE

VALVE IN YARD BOX

SOLENOID VALVE (ELECTRIC)

GAS COCK

HOSE BIBB

DIRECTION OF FLOW

PLUGGED OUTLET

PIPING BREAK

SQUARE FEET (SQ FT)

FLOOR CLEANOUT

FLOOR CLEANOUT IN YARDBOX

CLEANOUT (CO)

PIPING RISE OR DROP

PIPING DOWN

PIPING UP

BRANCH CONNECTION

BRANCH-BOTTOM CONNECTION

DRAINAGE ABOVE GROUND

DRAINAGE BELOW GROUND

SANITARY VENT

DOMESTIC COLD WATER

DOMESTIC HOT WATER

DOMESTIC HOT WATER RETURN

G — NATURAL GAS (LOW PRESSURE)

MPG — NATURAL GAS (MEDIUM PRESSURE)

SD — STORM DRAINAGE ABOVE GROUND

SD — STORM DRAINAGE BELOW GROUND

OD — OVERFLOW DRAIN ABOVE GROUND

CD — CONDENSATE DRAIN

NPC — NON-POTABLE COLD WATER

DETAIL NUMBER / M-X / DRAWING NUMBER — DETAIL DESIGNATION

EQUIPMENT DESCRIPTION — EQUIPMENT DESIGNATION

EQUIPMENT NUMBER

## PLUMBING ABBREVIATIONS

- A -
ABV ABOVE
AC AIR CONDITIONING (HVAC)
ACC ACCESSIBLE
AFF ABOVE FINISH FLOOR
AFSR AUTOMATIC FIRE SPRINKLER RISER
AP ACCESS PANEL
AV ACID VENT
AW ACID WASTE

- B -
BEH BEHIND
BEL BELOW
BTUH BRITISH THERMAL UNITS PER HOUR

- C -
CD CONDENSATE DRAIN
CFH CUBIC FEET PER HOUR
CFM CUBIC FEET PER MINUTE
CLG CEILING
CO CLEANOUT
CONT CONTINUATION
COTG CLEANOUT TO GRADE
CU FT CUBIC FEET
CW COLD WATER (DOMESTIC)

- D -
DN DOWN
DPX DUPLEX
DR DROP
DS DOWN SPOUT
DWG DRAWING

- E -
(E) EXISTING
EL ELEVATION
EQUIP EQUIPMENT
ESEW EMERGENCY SHOWER EYE WASH
EWC ELECTRIC WATER COOLER

- F -
F FIRE LINE
FCO FLOOR CLEANOUT
FD FLOOR DRAIN
FFE FINISHED FLOOR ELEVATION
FLR FLOOR
FT FOOT, FEET
FU FIXTURE UNIT
FV FLUSH VALVE

- G -
G GAS (LOW PRESSURE)
GAL GALLON
GC GAS COCK
GPF GALLONS PER FLUSH
GPH GALLONS PER HOUR
GPM GALLONS PER MINUTE
GPR GAS PRESSURE REGULATOR
GWH GAS WATER HEATER
GW GREASE WASTE

- H -
HB HOSE BIBB
HP HORSEPOWER
HW HOT WATER (DOMESTIC)
HWR HOT WATER RETURN (DOMESTIC)

- I -
ICW INDUSTRIAL COLD WATER
IW INDIRECT WASTE
IE INVERT ELEVATION
INT INTEGRAL

- K -
KW KILOWATT

- L -
LAV LAVATORY

- M -
MPG MEDIUM PRESSURE GAS
MTD MOUNTED

- N -
NTS NOT TO SCALE
NC NORMALLY CLOSED
NO NORMALLY OPEN

- O -
OC ON CENTER
OD OVERFLOW DRAIN

- P -
PH PHASE
PO PLUGGED OUTLET
POC POINT OF CONNECTION
PSI POUNDS PER SQUARE INCH

- Q -
QTY QUANTITY

- R -
RD ROOF DRAIN
RI ROUGH-IN
RPM REVOLUTIONS PER MINUTE

- S -
SAN SANITARY SEWER
SD STORM DRAIN
SK SINK
SOV SHUT-OFF VALVE

- T -
TMV THERMOSTATIC MIXING VALVE
TP TRAP PRIMER
TPL TRAP PRIMER LINE
TYP TYPICAL
TW TEMPERED WATER
TWR TEMPERED WATER RETURN

- U -
UR URINAL

- V -
V VENT
VERT VERTICAL
VTR VENT THROUGH ROOF
VB VACUUM BREAKER

- W -
W WASTE
W/ WITH
WC WATER CLOSET
WCO WALL CLEANOUT
WH WALL HYDRANT
WHA WATER HAMMER ARRESTOR

- Y -
YB YARD BOX

## GENERAL NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2022 CALIFORNIA PLUMBING CODES, CALIFORNIA STATE FIRE MARSHAL, CALIFORNIA OFFICE OF THE STATE ARCHITECT, AND CALIFORNIA ADMINISTRATIVE CODES, TITLES 17, 24 AND AUTHORITIES HAVING JURISDICTIONS.
2. CONTRACTOR SHALL VERIFY ALL UTILITIES LOCATION, SIZE AND ELEVATIONS WITH CIVIL ENGINEER'S DRAWINGS PRIOR TO START OF WORK.
3. CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES FOR CLEARANCES AND WORK INCLUDED PRIOR TO START OF WORK.
4. KEEP ALL PIPING CLEAR FROM LOAD BEARING FOOTINGS.
5. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS, MOUNTING HEIGHTS AND COLORS OF ALL PLUMBING FIXTURES.
6. ALL VENTS SHALL TERMINATE NOT LESS THAN 10 FEET FROM, OR NOT LESS THAN 3 FEET ABOVE, FRESH AIR INTAKES, WINDOWS, DOORS OR OTHER OPENINGS.
7. PROVIDE AND INSTALL ACCESS PANELS AT ALL LOCATION OF WATER HAMMER ARRESTORS.
   - PANELS TO 12 X 12 OR AS REQUIRED. FINISH SELECTED BY ARCHITECT.
8. CLEANOUTS SHALL BE INSTALLED PER CALIFORNIA PLUMBING CODE SECTION 707, 719 AND 803.
9. SLOPE OF BUILDING SEWERS SHALL NOT BE LESS THAN 2% UNLESS NOTED OTHERWISE.
10. ALL DOMESTIC HOT WATER PIPING SHALL BE INSULATED AS REQUIRED BY CALIFORNIA ENERGY COMMISSION TABLE 120.3-A OF THE BUILDING ENERGY EFFICIENCY STANDARDS. INSULATION SHALL HAVE A FIRE HAZARD CLASSIFICATION 25/50 COMPOSITE RATING.

| PIPE SIZE | INSULATION THICKNESS | INSULATION VALUE |
|---|---|---|
| < 1" | 1" | K FACTOR = 0.25 |
| 1" < | 1-1/2" | K FACTOR = 0.25 |

11. CIRCULATING HOT WATER SYSTEMS SHALL BE EQUIPPED WITH A CONTROL CAPABLE OF AUTOMATICALLY TURNING OFF THE CIRCULATING PUMPS WHEN HOT WATER IS NOT REQUIRED (TIME CLOCK).
12. ALL SERVICE WATER HEATING EQUIPMENT TO BE IN COMPLIANCE WITH THE CALIFORNIA ENERGY COMMISSION (CEC) REQUIREMENTS AND BE SO LABELED.
13. COORDINATE WITH ELECTRICAL TRADE PRIOR TO ORDERING EQUIPMENT FOR AVAILABLE VOLTAGES AT EQUIPMENT LOCATIONS.
14. ALL HOSE BIBBS, WALL HYDRANTS AND JANITORIAL SERVICE SINKS SHALL BE EQUIPPED WITH APPROVED, PROPERLY INSTALLED ATMOSPHERIC TYPE VACUUM BREAKER.
15. ALL WATER CONNECTIONS TO HVAC EQUIPMENT SHALL BE PROTECTED BY APPROVED, REDUCED PRESSURE BACKFLOW PREVENTION DEVICES. DEVICES SHALL BE ACCESSIBLE FOR TEST AND AND MAINTENANCE. PROVIDE FUNNEL DRAIN AND INDIRECT WASTE PIPING FOR BACKFLOW DEVICES DISTANT FROM FLOOR SINKS.
16. NATURAL GAS LINES SHALL NOT BE LOCATED UNDER ANY STRUCTURE PER 2022 CPC, SECTION 1210.1.6
17. DO NOT USE METALLIC GAS LINES TO GROUND ELECTRICAL SYSTEM.
18. PROVIDE COATED 12 GAUGE COPPER WIRE ATTACHED TO POLYETHYLENE GAS YARD PIPING FOR TRACING PURPOSE. TERMINAL WIRES SHALL BE IDENTIFIED IN LABELED ACCESS BOXES.
19. FOR LOCATION OF PIPING SLEEVES AND FLOOR OPENINGS THROUGH STRUCTURAL FLOOR SLABS, REFER TO DETAILS INDICATED IN STRUCTURAL DRAWINGS.
20. CONTRACTOR SHALL PATCH AND REPAIR ALL SURFACE AREAS DAMAGED BY HIS OPERATION.
21. ALL VALVES, UNIONS, ETC. TO BE LINE SIZE UNLESS OTHERWISE INDICATED ON DRAWINGS.
22. UNIONS SHALL BE PROVIDED AND INSTALLED AFTER EACH THREADED TYPE VALVE AND PRIOR TO EQUIPMENT CONNECTIONS.
23. ANY DEVIATION FROM THE DRAWINGS OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER PRIOR TO INSTALLATION.
24. UNLESS SPECIFICALLY SHOWN ON THE STRUCTURAL PLANS NO STRUCTURAL MEMBER SHALL BE CUT. NEITHER DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT.
25. FOR THE PURPOSE OF CLEARNESS AND LEGIBILITY, THE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ALTHOUGH SIZES AND LOCATION OF EQUIPMENT IS DRAWN TO SCALE WHEREVER POSSIBLE, THE CONTRACTOR SHALL MAKE USE OF ALL DATA IN ALL OF THE CONTRACTOR DOCUMENTS AND VERIFY THIS INFORMATION BEFORE ORDERING, FABRICATING OR INSTALLING OF ANY MATERIALS.
26. ALL INTERIOR CONDENSATE PIPING SHALL BE INSULATED WITH CLOSED CELL FOAM INSULATION; WITH FIRE HAZARD CLASSIFICATION 25/50 COMPOSITE RATING.
27. CONTRACTOR SHALL PROVIDE AS-BUILTS, CAD GENERATED AND DRAWN TO THE SAME SCALE THAT CONSTRUCTION DRAWINGS INDICATE ( I.E. ENLARGED PLANS @ 1/4"=1'-0") SUBMIT 6 SETS OF HARD COPIES AND 1 ELECTRONIC COPY ON CD-ROM. CAD DRAWINGS SHALL BE AUTOCAD LATEST VERSION. COORDINATE REQUIREMENTS WITH OWNER.
28. PROVIDE WRITTEN WARRANTY TO REPLACE ALL FAULTY MATERIALS AND/OR LABOR, AT NO COST TO OWNER, FOR A PERIOD OF ONE YEAR FROM DATE OF OWNERS ACCEPTANCE.

## ADA COMPLIANCE NOTES

1. COVER EXPOSED HOT & COLD WATER PIPING AND WASTE PIPING AT ALL LAVATORIES WITH NEATLY PRE-FORMED PIPE INSULATION, PLUMBEREX "PRO-EXTREME MODEL X4333 OR X4444 OR APPROVED EQUIVALENT.
2. ALL PIPING UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.
3. FAUCET CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST.
4. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THE 5 lbf. LEVER-OPERATED, PUSH TYPE AND ELECTRONICALLY CONTROLLED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGNS. SELF-CLOSING VALVES ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS.
5. ACCESSIBLE PLUMBING FIXTURES SHALL COMPLY WITH ALL OF THE REQUIREMENTS OF CBC 2019-CHAPTER 11B-DIVISION 6. HEIGHTS AND LOCATION OF ALL FIXTURES SHALL BE ACCORDING TO CBC TABLE 11B-604.9. FIXTURE CONTROLS SHALL COMPLY WITH CHAPTER SECTION 11B-309.4.

## MATERIAL SCHEDULE

A. BELOW GRADE WASTE, VENT, AND STORM DRAIN PIPING SHALL BE NO-HUB CAST IRON SOIL PIPE AND FITTINGS. HUB JOINTS PROHIBITED (BELL & SPIGOT).

B. ABOVE GRADE WASTE, VENT, AND STORM DRAIN PIPING SHALL BE NO-HUB CAST IRON SOIL PIPE AND FITTINGS.

C. ABOVE GRADE WATER AND CONDENSATE DRAIN PIPING SHALL BE TYPE "L" HARD DRAWN COPPER WATER TUBE WITH WROUGHT COPPER SOLDER JOINT FITTINGS.

D. BELOW GRADE WATER AND CONDENSATE DRAIN PIPING SHALL BE TYPE "K" HARD DRAWN COPPER WATER TUBE WITH WROUGHT COPPER SOLDER JOINT FITTINGS.

F. A/C CONDENSATE - TYPE "L" COPPER PIPE AND FITTINGS.

## PIPE AND DUCT SUPPORT NOTES

ALL BRACING OF DUCTS AND PIPING SHALL BE INSTALLED IN ACCORDANCE WITH "MASON" SEISMIC RESTRAINT GUIDELINES FOR SEISMIC RESTRAINT OF MECHANICAL SYSTEMS. OSHPD PRE-APPROVAL # OPM-0043-13.

WHERE ANCHORAGE & BRACING DETAILS ARE NOT SHOWN ON THE DRAWINGS OR IN THE GUIDELINES, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT, MECHANICAL ENGINEER AND THE INSPECTOR.

A COPY OF THE GUIDELINES PUBLISHED BY "MASON" SHALL BE PROVIDED BY THE CONTRACTOR AND KEPT ON THE JOB SITE AT ALL TIMES.

## SEISMIC NOTES

A) THE SEISMIC ANCHORAGE FOR ALL MECHANICAL AND ELECTRICAL EQUIPMENT SHALL BE DESIGNED TO WITHSTAND A LATERAL FORCE:

   1. CALCULATED AS SPECIFIED IN SECTION 1613A OF THE VOL. 2, TITLE 24, 2019 CBC.

B) THE CAPACITY OF THE ANCHORAGE CONNECTORS IN SHEAR AND/OR TENSION SHALL BE CLEARLY INDICATED IN THE CALCULATIONS, WHICH INDICATE, ICBO REPORT NO. (IF APPLICABLE) THEIR TOTAL NUMBER, SIZE, GRADE, EMBEDMENT, EDGE DISTANCES, AND OTHER FACTORS WHICH AFFECT THE CAPACITY IN SHEAR AND TENSION.

C) ANCHORAGE DETAILS FOR EQUIPMENT WHICH ARE NOT APPROVED DURING PLAN REVIEW ARE SUBJECT TO APPROVAL BY THE STRUCTURAL ENGINEER OF RECORD AND PRIOR TO INSTALLATION AND INSPECTION BY THE PROJECT INSPECTOR.

## PLUMBING SHEET INDEX


| SHEET NO. | DESCRIPTION |
|---|---|
| P001 | PLUMBING GENERAL NOTES, ABBREVIATIONS & SYMBOLS |
| P002 | PLUMBING SCHEDULES & DETAILS |
| P003 | PLUMBING DETAILS |
| P200 | LOWER LEVEL PLUMBING DEMOLITION PLAN |
| P201 | MAIN LEVEL PLUMBING DEMOLITION PLAN |
| P202 | LOWER LEVEL PLUMBING PLAN |
| P203 | MAIN LEVEL PLUMBING PLAN |
| P300 | PLUMBING DEMOLITION ROOF PLAN |
| P301 | PLUMBING ROOF PLAN |
| PD201 | LOWER LEVEL PLUMBING PLAN - ADD ALTS |
| PD202 | MAIN LEVEL PLUMBING PLAN - ADD ALTS |
| PD301 | PLUMBING ROOF PLAN - ADD ALTS |


TOTAL SHEETS = 12

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PROJECT TITLE:

# Altadena Main Library

600 E MARIPOSA STREET
ALTADENA, CA 91001

PROJECT NO. 2111010
DATE: Issue Date
SHEET TITLE:

## PLUMBING GENERAL NOTES SYMBOLS AND ABBREVIATIONS

SCALE: N.T.S.


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P001

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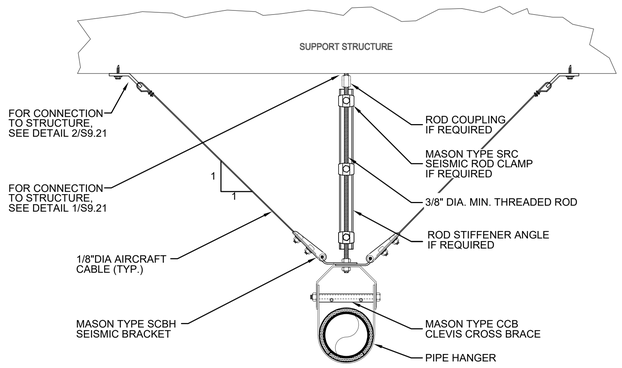
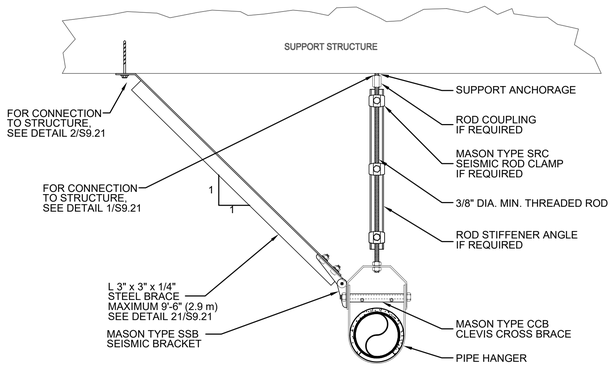


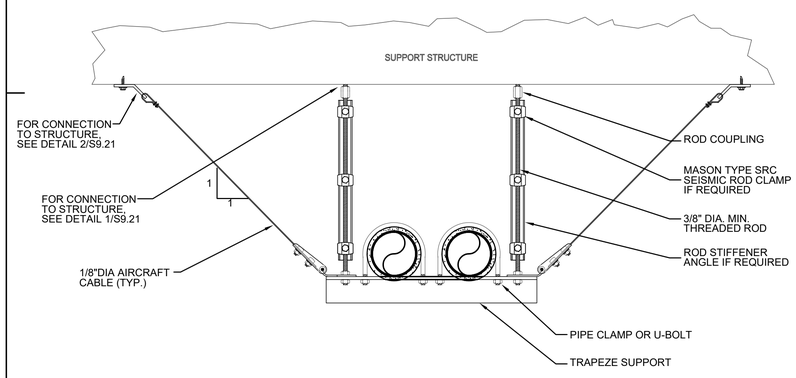

TRANSVERSE SEISMIC CABLE BRACE
FOR SPRING-ISOLATED CLEVIS SUPPORTED PIPE

PIPE HANGER DETAIL | SCALE NONE | 1




TRANSVERSE SEISMIC SOLID BRACE
FOR CLEVIS SUPPORTED PIPE/CONDUIT

PIPE HANGER DETAIL | SCALE NONE | 2




TRANSVERSE SEISMIC CABLE BRACE FOR
FOR TRAPEZE SUPPORTED PIPE/CONDUIT

PIPE HANGER DETAIL | SCALE NONE | 3

## PLUMBING FIXTURE SCHEDULE

| MARK | FIXTURE | ROUGH-IN-SIZE | | | | | FIXTURE UNIT | | DESCRIPTION/REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| | | TRAP | S/W | V | CW | HW | WASTE | WATER | |
| WC-1 | WATER CLOSET | INT | 4" | 2" | 1 1/2" | - | 4 | 5 | **AMERICAN STANDARD #2856.111 WALL MOUNTED, ELONGATED VITREOUS CHINA** BOWL WITH SYPHON JET ACTION. PROVIDE WITH SLOAN #111 ESS-1.28-TMO-HW-24V, HARDWIRED, SENSOR OPERATED 1.28 GPF FLUSH VALVE. OLSONITE #95CT OPEN FRONT SEAT, AND ADJUSTABLE FIXTURE SUPPORT FOR WATER CLOSET. |
| WC-2 | WATER CLOSET (ACC) | INT | 4" | 2" | 1 1/2" | - | 4 | 5 | **AMERICAN STANDARD #2856.111 WALL MOUNTED, ELONGATED VITREOUS CHINA** BOWL WITH SYPHON JET ACTION. PROVIDE WITH SLOAN #111 ESS-1.28-TMO-HW-24V, HARDWIRED, SENSOR OPERATED 1.28 GPF FLUSH VALVE. OLSONITE #95CT OPEN FRONT SEAT, AND ADJUSTABLE FIXTURE SUPPORT FOR WATER CLOSET. |
| UR-1 | URINAL | INT | 2" | 1 1/2" | 3/4" | - | 2 | 4 | **AMERICAN STANDARD #6590.001 "WASHBROOK" WALL HUNG, LOW CONSUMPTION** WASHOUT FLUSH ACTION, VITREOUS CHINA BOWL. PROVIDE WITH SLOAN #186 ESS-0.125-TMO, HARDWIRED, SENSOR OPERATED 0.125 GPF FLUSH VALVE. PROVIDE ADJUSTABLE FIXTURE CARRIER WITH STEEL UPRIGHTS. |
| UR-2 | URINAL (ACC) | INT | 2" | 1 1/2" | 3/4" | - | 2 | 4 | **AMERICAN STANDARD #6590.001 "WASHBROOK" WALL HUNG, LOW CONSUMPTION** WASHOUT FLUSH ACTION, VITREOUS CHINA BOWL. PROVIDE WITH SLOAN #186 ESS-0.125-TMO, HARDWIRED, SENSOR OPERATED 0.125 GPF FLUSH VALVE. PROVIDE ADJUSTABLE FIXTURE CARRIER WITH STEEL UPRIGHTS. |
| LV-1 | LAVATORY (ACC) | 1 1/2" | 2" | 1 1/2" | 3/4" | 3/4" | 1 | 1 | |
| LV-2 | LAVATORY (ACC) | 1 1/2" | 2" | 1 1/2" | 3/4" | 3/4" | 1 | 1 | **AMERICAN STANDARD, #0355.012 "LUCERNE" WALL HUNG VITREOUS CHINA BOWL** W/ 4" CENTER. TOTO HELIX ECOPOWER #TEL113-D20E, DUAL TEMP MIXING FAUCET, 0.35 GPM AERATING FLOW CONTROL AND LOOSEKEY ANGLE STOPS. PROVIDE ADJUSTABLE FIXTURE CARRIER WITH STEEL UPRIGHTS. |
| LV-3 | LAVATORY (ACC) | 1 1/2" | 2" | 1 1/2" | 3/4" | 3/4" | 1 | 1 | BRADLEY #LVGD1, WALL HUNG WASH BASIN WITH WASH BAR WB1 TECHNOLOGY SINGLE PIECE CAST BASIN, CHROME PLATED CAST METAL WASH BAR INCLUDES TOUCH-FREE FAUCET, SOAP DISPENSER AND HAND DRYER. COMPLETE WITH SUPPORT BRACKET, CHROME PLATED STRAINER AND P-TRAP ASSEMBLY. |
| LV-4 | LAVATORY (ACC) | 1 1/2" | 2" | 1 1/2" | 3/4" | 3/4" | 1 | 1 | BRADLEY #LVGD2, WALL HUNG WASH BASIN WITH WASH BAR WB1 TECHNOLOGY SINGLE PIECE CAST BASIN, CHROME PLATED CAST METAL WASH BAR INCLUDES TOUCH-FREE FAUCET, SOAP DISPENSER AND HAND DRYER. COMPLETE WITH SUPPORT BRACKET, CHROME PLATED STRAINER AND P-TRAP ASSEMBLY. |
| S-1 | SINK (ACC) | 1 1/2" | 2" | 1 1/2" | 3/4" | 3/4" | 2 | 2 | JUST #US-ADA-1821-A, SINGLE COMP UNDERMOUNT, ADA SINK, 18 GA, TYPE 304 STAINLESS STEEL, CHICAGO #201-AGN8AE35-317AB DECK MOUNTED FAUCET (1.5 GPM) WITH LOOSE-KEY STOPS, OFFSET GRID STRAINER WITH BRAIDED STAINLESS STEEL SUPPLIES AND 17 GAUGE P-TRAP. |
| S-2 | SINK (ACC) | 1 1/2" | 2" | 1 1/2" | 3/4" | 3/4" | 2 | 2 | JUST #US-ADA-1830-A, DOUBLE COMP UNDERMOUNT, ADA SINK, 18 GA, TYPE 304 STAINLESS STEEL, CHICAGO #201-AGN8AE35-317AB DECK MOUNTED FAUCET (1.5 GPM) WITH LOOSE-KEY STOPS, OFFSET GRID STRAINER WITH BRAIDED STAINLESS STEEL SUPPLIES AND 17 GAUGE P-TRAP. |
| USK-1 | UTILITY SINK | 3" | 3" | 2" | 3/4" | 3/4" | 3 | 2 | JUST #JS-122-T, SINGLE COMP WALL MOUNTED, ADA SINK, 18 GA, TYPE 304 STAINLESS STEEL, JUST #JS-47-TGSA DECK MOUNTED FAUCET (1.5 GPM) WITH LOOSE-KEY STOPS, OFFSET GRID STRAINER WITH BRAIDED STAINLESS STEEL SUPPLIES AND 17 GAUGE P-TRAP. |
| MS-1 | MOP/SERVICE SINK | 3" | 3" | 2" | 3/4" | 3/4" | 3 | 2 | AMERICAN STANDARD #7745.811, ACID RESISTANT ENAMELED CAST IRON, FLOOR MOUNTED WITH RIM GUARD, CHICAGO #897-CP MIXING FAUCET WITH ATMOSPHERIC VACUUM BREAKER, PAIL HOOK, WALL BRACE, MALE HOSE THREADED OUTLET. |
| DF-1 | DRINKING FOUNTAIN (ACC) | 1 1/2" | 2" | 1 1/2" | 3/4" | - | .5 | .5 | |
| FD-1 | FLOOR DRAIN | 2" | 2" | 1 1/2" | 1/2" | - | - | - | JR SMITH #2005Y-A, HUBLESS CAST IRON BODY, 5" ROUND BRASS GRATE WITH VANDAL PROOF SCREWS, P-TRAP AND TRAP PRIMER CONNECTION. |
| TP-1 | TRAP PRIMER | - | - | - | 1/2" | - | - | - | JR SMITH #2694, LEAD-FREE BRASS CONSTRUCTION WITH SHUT-OFF VALVE, BEHIND ACCESS PANEL. 125 PSIG MIN. 3 PSI PRESSURE DROP ACTIVATION. (SIZE PER MANUFACTURERS RECOMMENDATIONS) |
| WHA-1 | WATER HAMMER ARRESTOR | - | - | - | - | - | - | - | JR SMITH "HYDROTROL" 5000 SERIES, BEHIND ACCESS PANEL. (SIZE IN ACCORDANCE WITH PDI STANDARDS) |
| CWC-1 | COLD WATER CONNECTION | - | - | - | 1/2" | - | - | - | |
| RD-1 | ROOF DRAIN | - | - | - | - | - | - | - | J.R. SMITH #1010Y-RCU, CAST IRON BODY WITH DOME STRAINER AND OTTOM OUTLET. |
| OD-1 | OVERFLOW DRAIN | - | - | - | - | - | - | - | J.R. SMITH #1080Y-RCU, CAST IRON BODY WITH DOME STRAINER, BOTTOM OUTLET WITH 2" HIGH DAM. PROVIDE WITH CONDUCTOR/DOWNSPOUT NOZZLE. |

## ELECTRIC WATER HEATER SCHEDULE

| SYMBOL | LOCATION | MFR/ MODEL No. | STOR. (GAL.) | RECOV. @ 60°F RISE (GPH.) | TANK SIZE | | TEMP | | ELECTRICAL DATA | | | OPER. WEIGHT (LBS) | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | DIA (IN) | HT (IN) | IN (F°) | OUT (F°) | KW | VOLT | PH | | |
| EWH-1 | UNDER SINK MTD. - | CHRONOMITE MODEL M-20L/208 | - | - | - | - | 60 | 117 | 4.16 | 208 | 1 | 7 | WALL MOUNT UNDER SINK. CIRCUIT WITH DISCONNECT. SEE DETAIL... |
| EWH-2 | UNDER SINK MTD. - | CHRONOMITE MODEL M-30L/208 | - | - | - | - | 60 | 103 | 6.24 | 208 | 1 | 7 | WALL MOUNT UNDER SINK. CIRCUIT WITH DISCONNECT. SEE DETAIL... |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PROJECT TITLE:

# Altadena Main Library

600 E MARIPOSA STREET
ALTADENA, CA 91001

PROJECT NO. 2111010

DATE: Issue Date

SHEET TITLE:

## PLUMBING SCHEDULES & DETAILS

SCALE: N.T.S.


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P002

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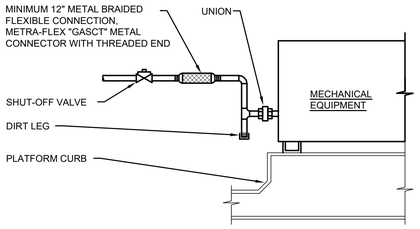
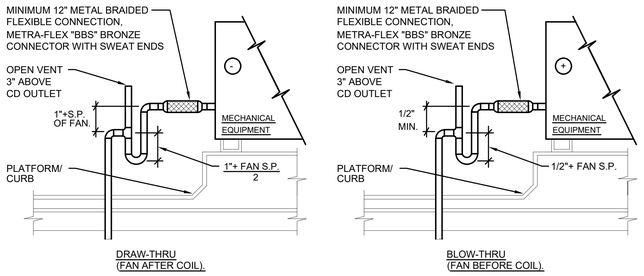



## GAS CONNECTION TO HVAC EQUIPMENT DETAIL

SCALE: NONE | 1

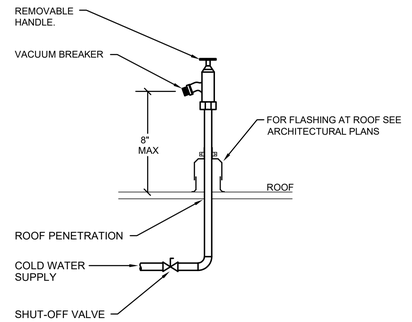



NOTE:

1. SEE PLANS FOR PIPE SIZES
2. INSULATE ALL INTERIOR CONDENSATE DRAIN PIPING WITH CLOSED CELL FOAM INSULATION.
3. SLEEVES SHALL BE PROVIDED AT ALL FLOOR AND WALL PENETRATIONS WITH 1" CLEARANCE AROUND PIPE & CAULK W/ FIRE RATED CAULKING.
4. COORDINATE WITH MECHANICAL CONTRACTOR TO DETERMINE FAN STATIC PRESSURE.

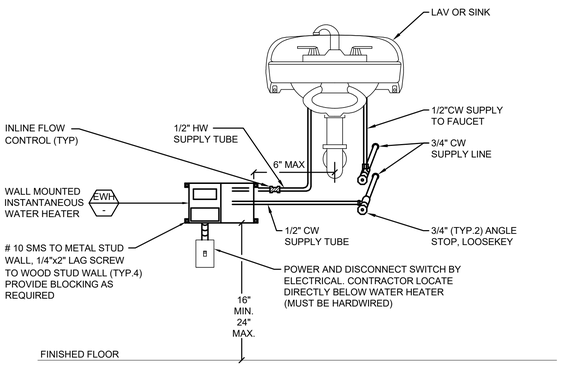
## CD CONNECTION TO MECHANICAL EQUIPMENT DETAIL

SCALE: NONE | 2



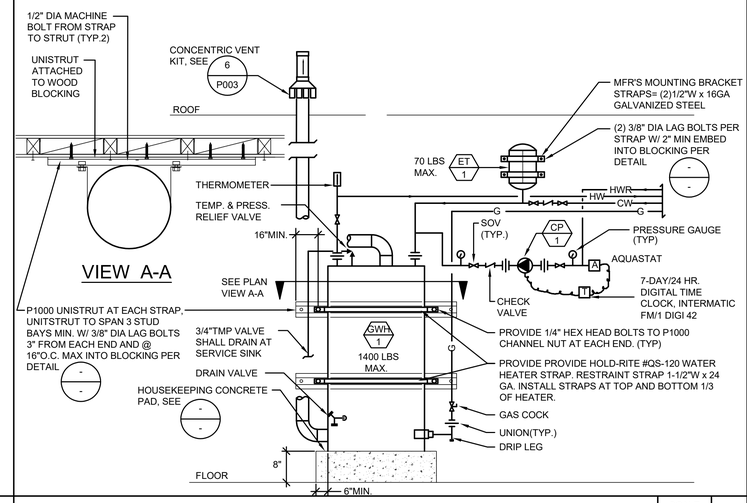

## HOSE BIBB ON ROOF DETAIL

SCALE: NONE | 3



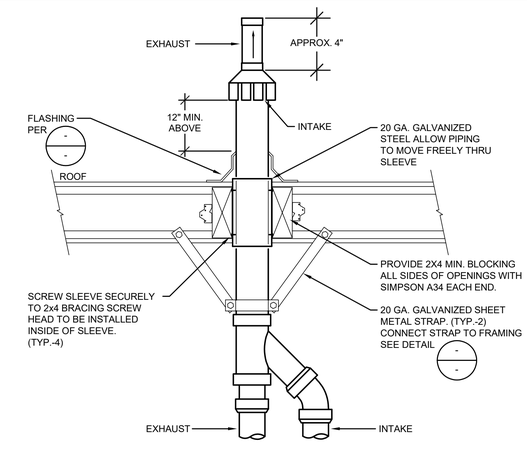

## INSTANTANEOUS WATER HEATER DETAIL

SCALE: NONE | 4




## GAS FIRED WATER HEATER PIPING/MOUNTING DETAIL

SCALE: NONE | 5




## CONCENTRIC VENT THRU ROOF

SCALE: NONE | 6

SCALE: NONE | 7

SCALE: NONE | 8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PROJECT TITLE:

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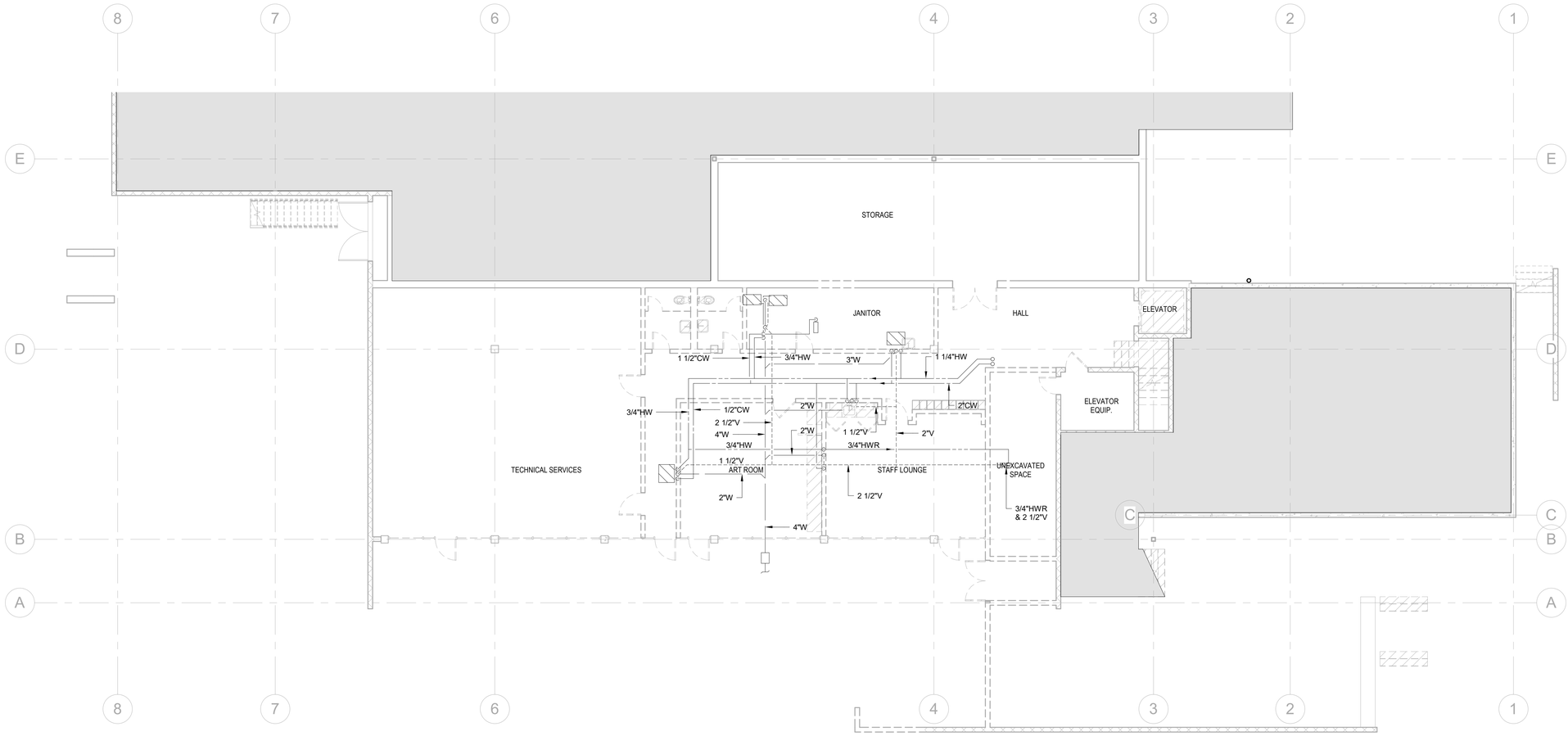
REMOVE AND DISPOSE OF FIXTURE. REMOVE UTILITY PIPING BACK TO WALL, BELOW GRADE/FLOOR OR UP IN WALL TO ABOVE CEILING. CAP AND ABANDON PIPING BELOW GRADE OR ABOVE CEILING

REMOVE AND DISPOSE OF FIXTURE. REMOVE UTILITY PIPING BACK TO WALL, BELOW GRADE/FLOOR OR UP IN WALL TO ABOVE CEILING. MODIFY PIPING AS REQUIRED TO ACCOMMODATE REPLACEMENT FIXTURE.




1 LOWER LEVEL PLUMBING DEMOLITION PLAN
1/8" = 1'-0"

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## LOWER LEVEL PLUMBING DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

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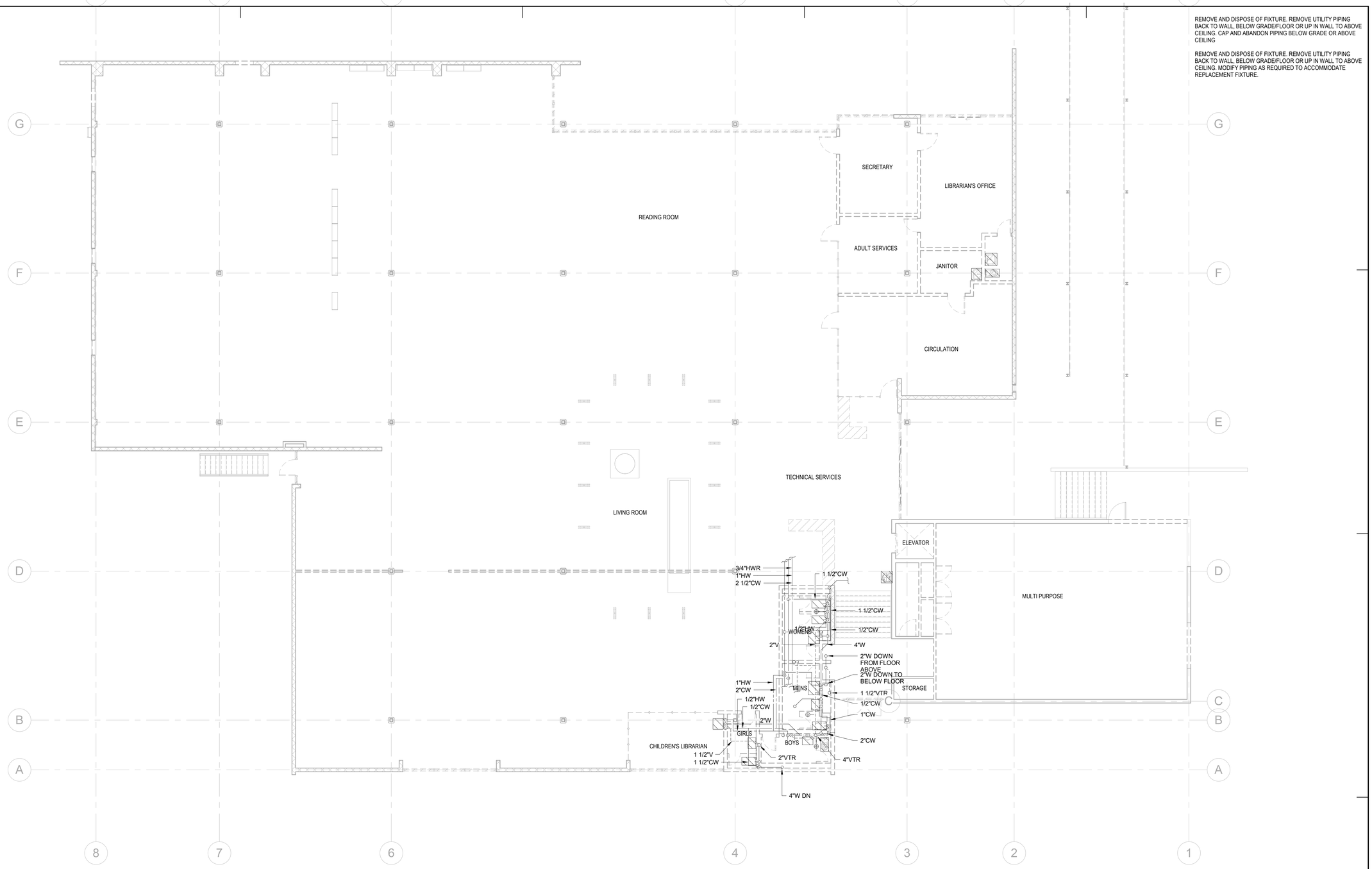


1 MAIN LEVEL PLUMBING DEMOLITION PLAN
1/8" = 1'-0"

REMOVE AND DISPOSE OF FIXTURE. REMOVE UTILITY PIPING BACK TO WALL, BELOW GRADE/FLOOR OR UP IN WALL TO ABOVE CEILING. CAP AND ABANDON PIPING BELOW GRADE OR ABOVE CEILING

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SHEET TITLE:

## MAIN LEVEL PLUMBING DEMOLITION PLAN

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P201

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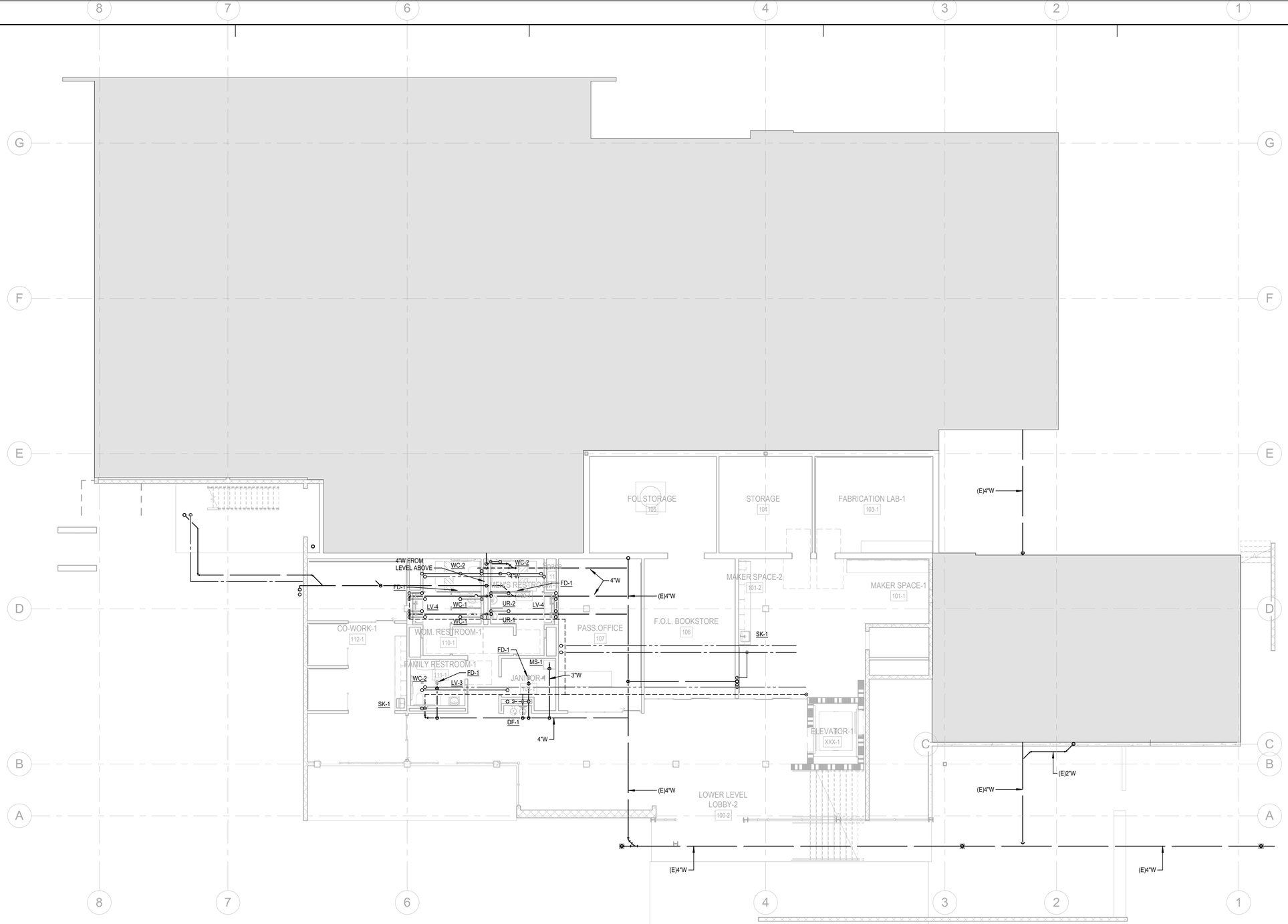


1 LOWER LEVEL PLUMBING PLAN
1/8" = 1'-0"

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## LOWER LEVEL PLUMBING PLAN

SCALE: 1/8" = 1'-0"

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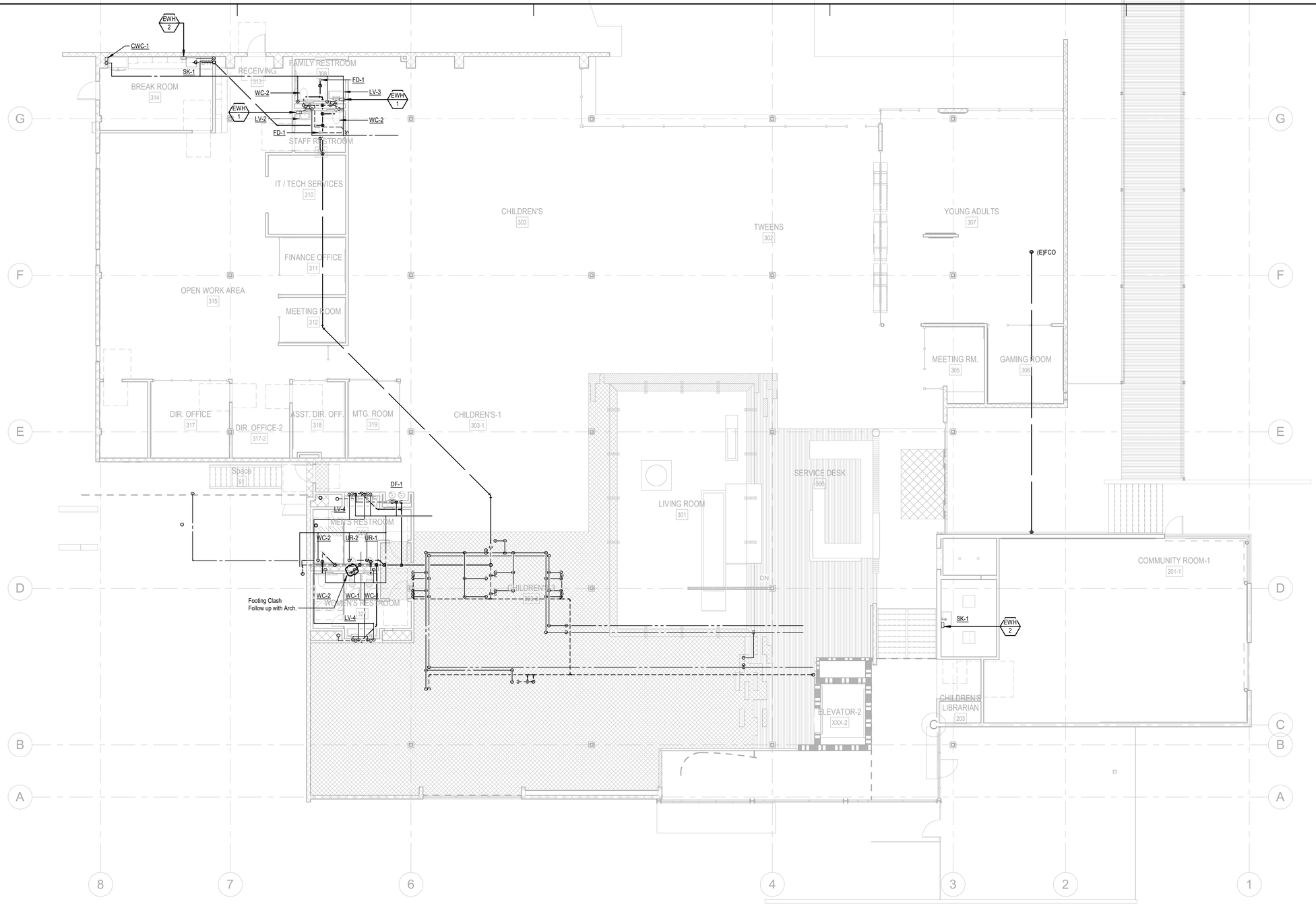


1 MAIN LEVEL PLUMBING PLAN
1/8" = 1'-0"

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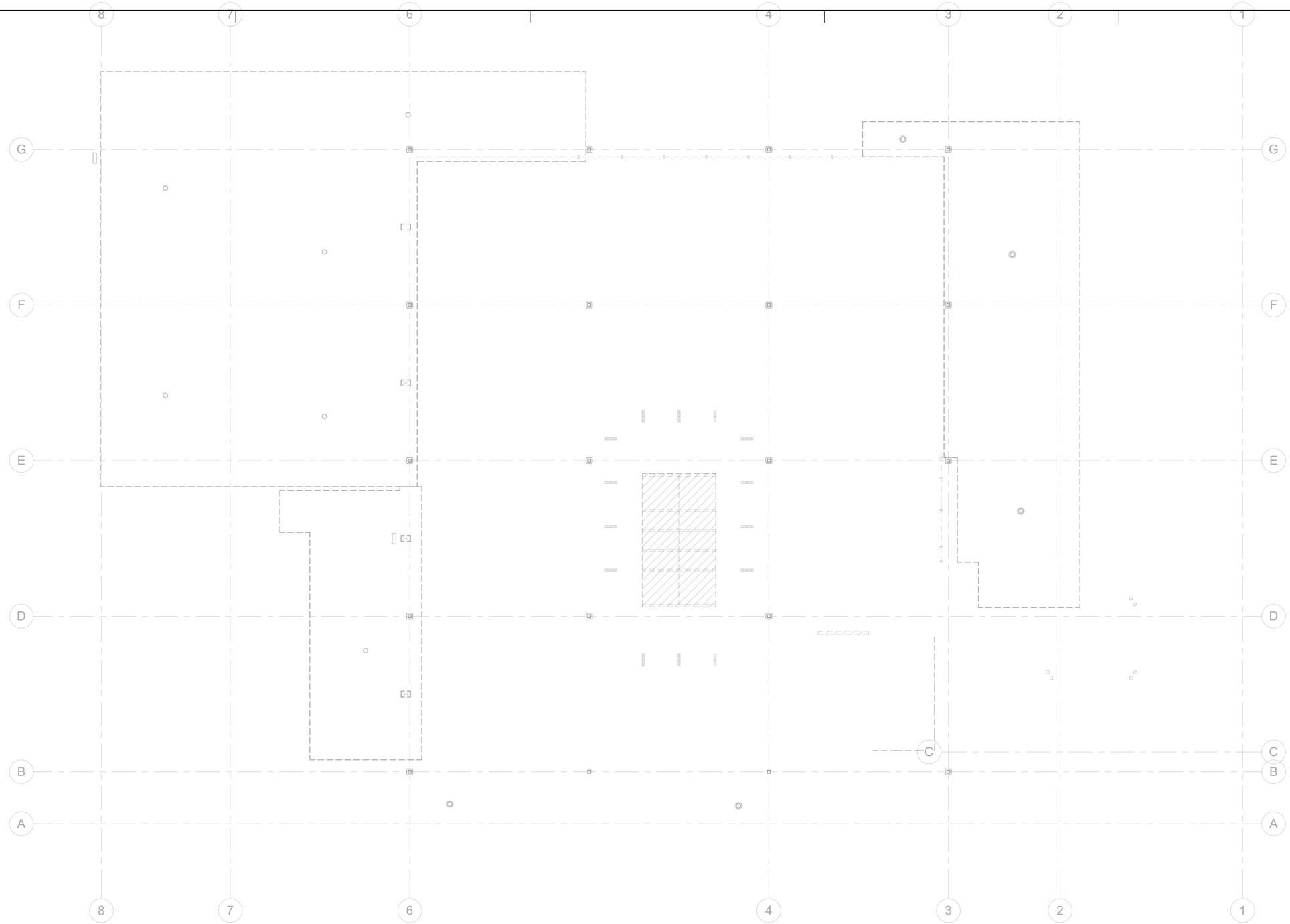


1 PLUMBING DEMOLITION ROOF PLAN
1/8" = 1'-0"

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San Jose, California 95113
408.298.1885 | www.aba-arch.com

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PROJECT TITLE:

# Altadena Main Library

600 E MARIPOSA STREET
ALTADENA, CA 91001

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|---|---|
| PROJECT NO. | 2111010 |
| DATE: | Issue Date |

SHEET TITLE:

## PLUMBING DEMOLITION ROOF PLAN

SCALE: 1/8" = 1'-0"

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P300

REGISTERED PROFESSIONAL ENGINEER
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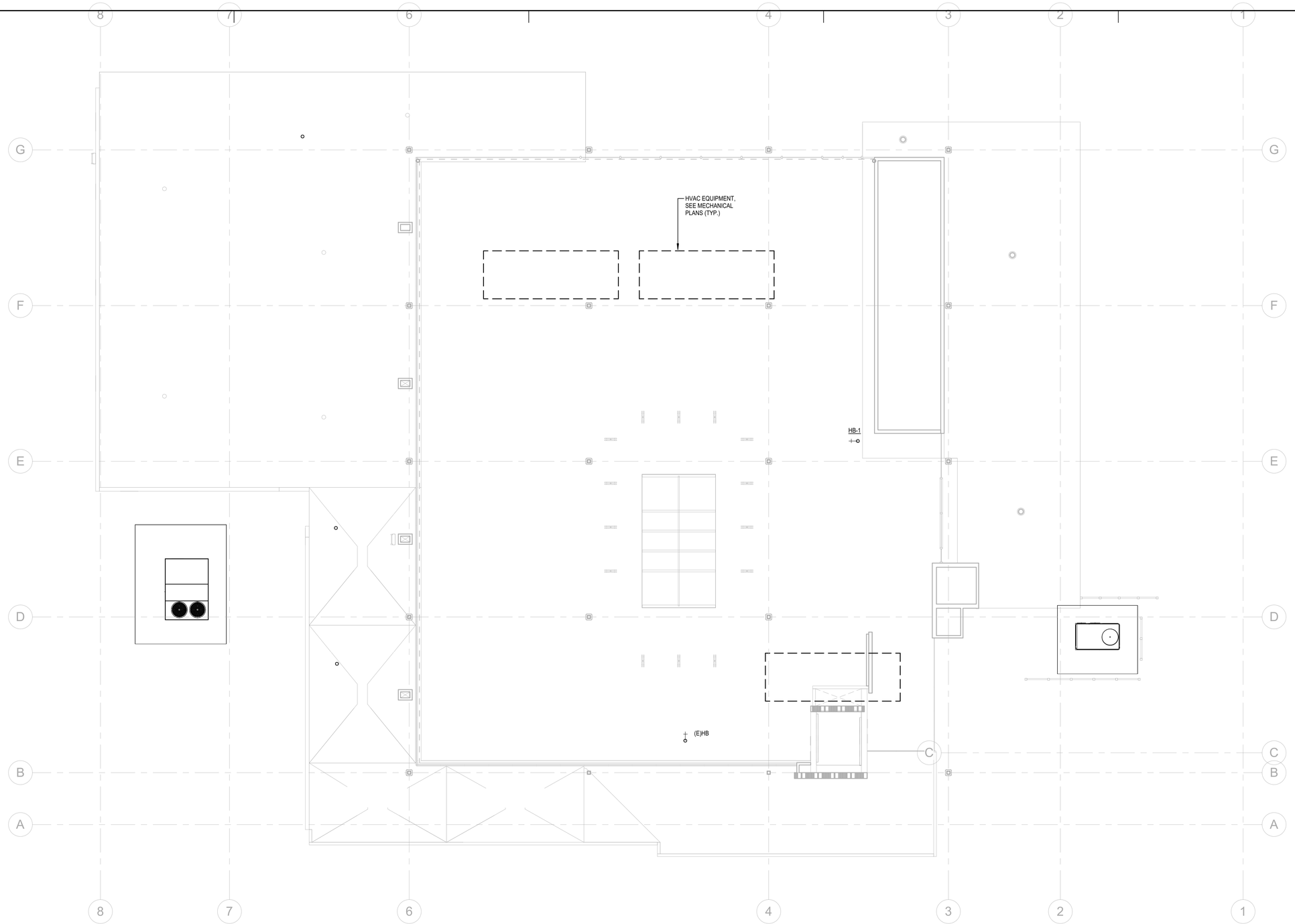


1 PLUMBING ROOF PLAN
1/8" = 1'-0"

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## PLUMBING ROOF PLAN

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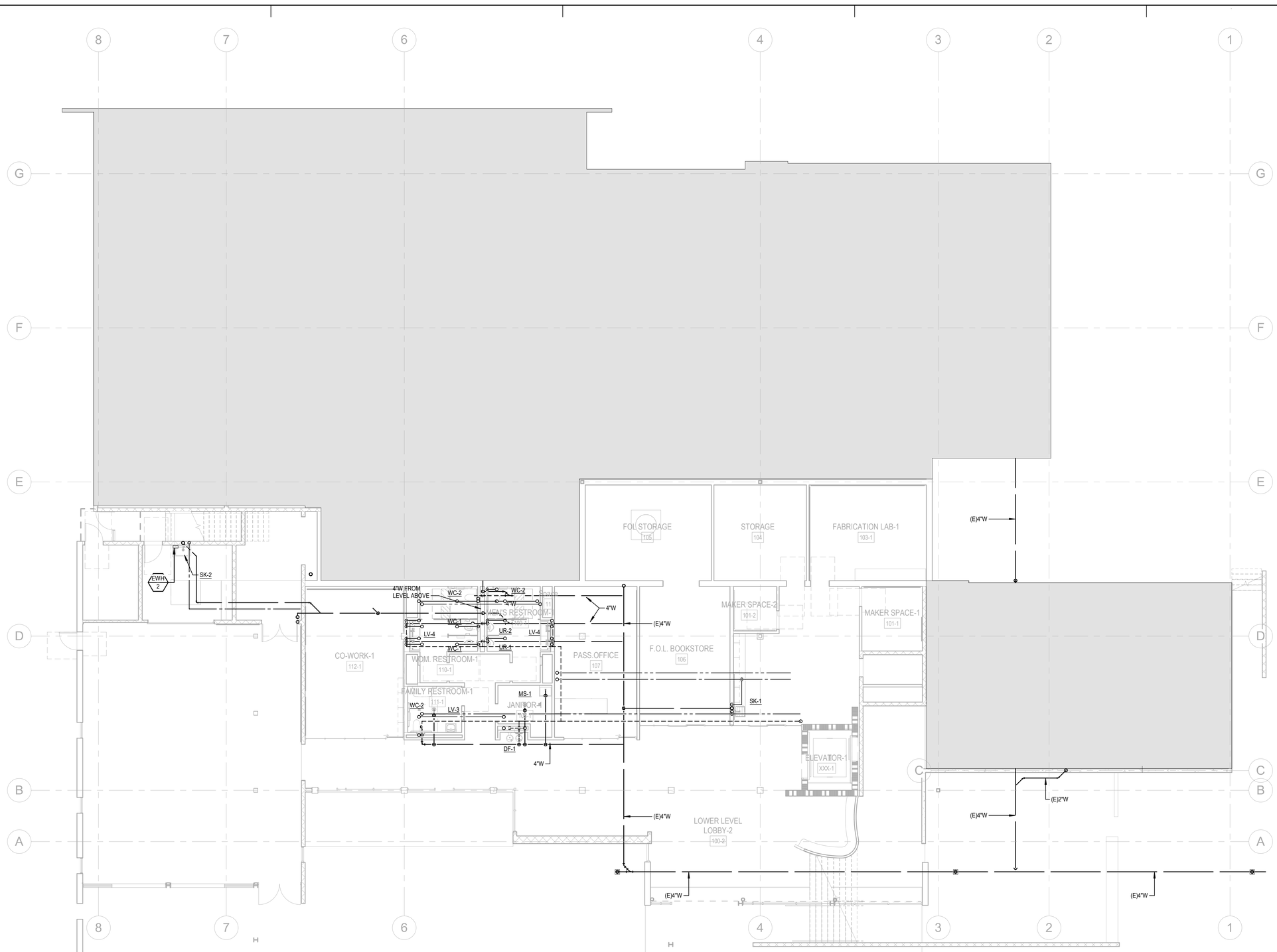


1 LOWER LEVEL PLUMBING PLAN - ADD ALTS
1/8" = 1'-0"

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## LOWER LEVEL PLUMBING PLAN - ADD ALTS

SCALE: 1/8" = 1'-0"

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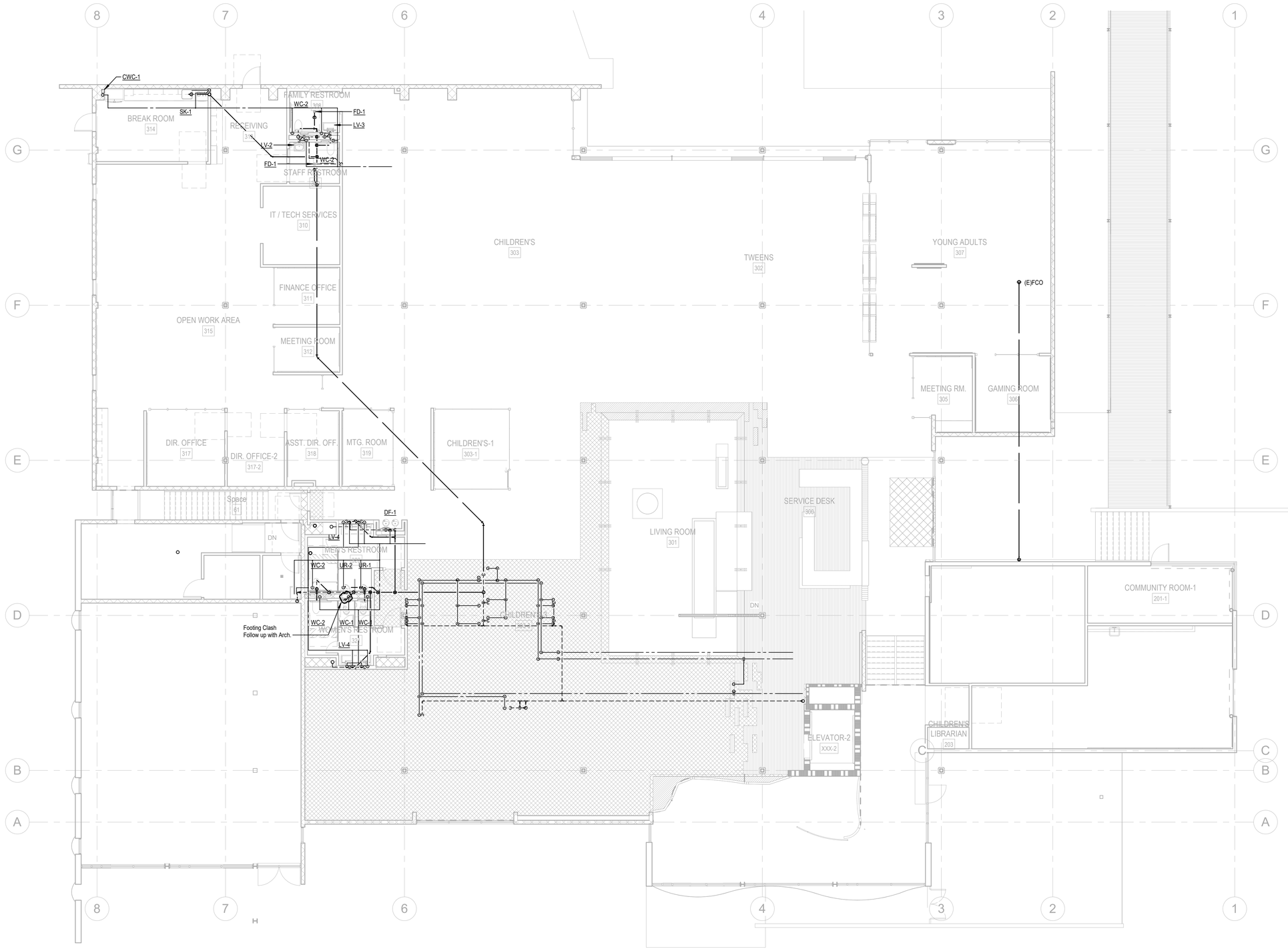


1 MAIN LEVEL PLUMBING PLAN - ADD ALTS
1/8" = 1'-0"

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## MAIN LEVEL PLUMBING PLAN - ADD ALTS

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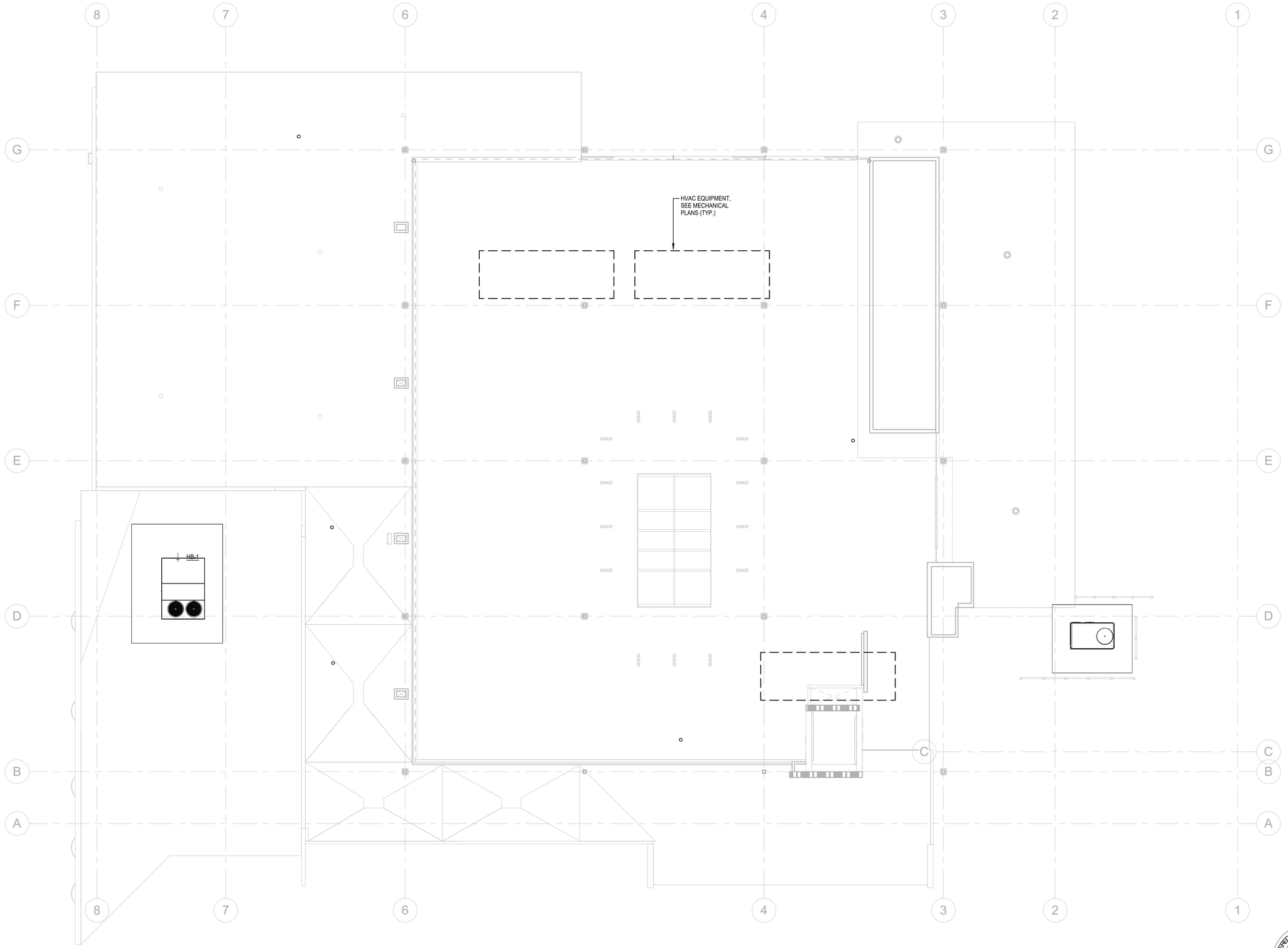


1 PLUMBING ROOF PLAN - ADD ALTS
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## GENERAL NOTES

1. PROJECT RECORD DOCUMENTS. USE A COMPUTER AIDED DRAFTING (CAD) SYSTEM IN THE PREPARATION OF RECORD DRAWINGS FOR THIS PROJECT. ACCEPTABLE CAD SYSTEMS SHALL BE CAPABLE OF PRODUCING FILES COMPATIBLE WITH THE LATEST VERSION OF AUTOCAD IN DWG OR DXF FORMAT. OWNER'S CONSULTANT WILL FURNISH CAD BACKGROUNDS FOR USE BY THE CONTRACTOR AFTER CONSTRUCTION IS 90% COMPLETE EXCEPT WHERE PROHIBITED BY CONTRACT.

2. ALL ELECTRICAL PREFABRICATED EQUIPMENT SHALL BE DESIGNED AND CONSTRUCTED IN SUCH A MANNER THAT ALL PORTIONS, ELEMENTS, SUB-ASSEMBLIES AND/OR PARTS OF SAID EQUIPMENT, AND THE EQUIPMENT AS A WHOLE INCLUDING ITS ATTACHMENTS, WILL RESIST A LOAD WHICH EXCEEDS THE FORCE LEVEL USED TO RESTRAIN AND ANCHOR THE EQUIPMENT TO THE SUPPORTING STRUCTURE.

3. ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BE LISTED BY UNDERWRITER'S LABORATORIES (UL) AND BEAR THEIR LABEL, OR LISTED AND CERTIFIED BY A NATIONALLY RECOGNIZED TESTING AUTHORITY, WHERE UL DOES NOT HAVE A LISTING. CUSTOM MADE EQUIPMENT SHALL HAVE COMPLETE TEST DATA SUBMITTED BY THE MANUFACTURER ATTESTING TO ITS SAFETY. IN ADDITION, THE MATERIALS, EQUIPMENT, AND INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF THE FOLLOWING:

   AMERICAN SOCIETY OF TESTING MATERIALS (ASTM)
   INSULATED POWER CABLE ENGINEERS ASSOCIATION (IPCEA)
   NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
   AMERICAN STANDARD ASSOCIATION (ASA)
   NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
   AMERICAN NATIONAL STANDARD INSTITUTE (ANSI)
   CALIFORNIA ELECTRICAL CODE (CEC) - LATEST EDITION
   CALIFORNIA CODE OF REGULATIONS TITLE 24 (CCR)
   INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)
   ALL LOCAL CODES HAVING JURISDICTION.

   WHERE THE CODES HAVE DIFFERENT LEVELS OF REQUIREMENTS, THE MOST STRINGENT RULE SHALL APPLY.

4. THE CONTRACTOR SHALL VISIT THE SITE INCLUDING ALL AREAS INDICATED ON THE DRAWINGS. HE SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND BY SUBMITTING A BID, ACCEPTS THE CONDITIONS UNDER WHICH HE SHALL BE REQUIRED TO PERFORM HIS WORK.

5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A COMPLETE SET OF CONTRACT DOCUMENTS AND ADDENDA (DRAWINGS AND SPECIFICATIONS.) HE SHALL CHECK THE CONTRACT DOCUMENTS OF THE OTHER TRADES AND DETERMINE HIS RESPONSIBILITIES. FAILURE TO DO SO SHALL NOT RELEASE THE CONTRACTOR FROM COMPLETING ALL RESPONSIBLE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

6. SECURE AND PAY FOR ALL PERMITS, FEES, CHARGES, AND INCIDENTAL COSTS NECESSARY FOR EXECUTION AND COMPLETION OF ELECTRICAL WORK, INCLUDING ALL CHARGES BY STATE, COUNTY AND LOCAL GOVERNMENTAL AGENCIES.

7. ALL ELECTRICAL WORK REFERENCED HEREIN SHALL BE COORDINATED WITH OTHER TRADES AND SITE CONDITIONS. ANY COSTS TO INSTALL WORK TO ACCOMPLISH SAID COORDINATION WHICH DIFFERS FROM THE WORK AS SHOWN ON THE CONTRACT DOCUMENTS SHALL BE INCURRED BY THE CONTRACTOR. ANY DISCREPANCIES, AMBIGUITIES OR CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT DURING BID TIME FOR CLARIFICATION. ANY SUCH CONFLICTS NOT CLARIFIED PRIOR TO BID SHALL BE SUBJECT TO THE INTERPRETATION OF THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.

8. PROVIDE TEMPORARY POWER FACILITIES AND CONNECTIONS FOR ALL FEEDERS, BRANCH CIRCUITS, OR SIGNAL AND COMMUNICATIONS SYSTEMS BEING DISCONNECTED IN ORDER TO MAINTAIN SYSTEMS IN OPERATION.

9. ALL INTERRUPTION OF ELECTRICAL POWER SHALL BE KEPT TO A MINIMUM. HOWEVER, WHEN AN INTERRUPTION IS NECESSARY, THE SHUTDOWN MUST BE COORDINATED WITH THE OWNER AND ENGINEER 14 DAYS PRIOR TO THE OUTAGE. ANY OVERTIME PAY SHALL BE INCLUDED IN THE CONTRACTOR'S BID. WORK IN EXISTING SWITCHBOARDS OR PANELBOARDS SHALL BE COORDINATED WITH THE OWNER PRIOR TO REMOVING ACCESS PANELS OR DOORS.

10. AFTER ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS HAVE BEEN FULLY COMPLETED, REPRESENTATIVES OF THE OWNERS WILL INSPECT THE WORK. THE CONTRACTOR SHALL PROVIDE COMPETENT PERSONNEL TO DEMONSTRATE THE OPERATION OF ANY ITEM OR SYSTEM TO THE FULL SATISFACTION OF EACH REPRESENTATIVE. FINAL ACCEPTANCE OF THE WORK WILL BE MADE BY THE OWNER AFTER RECEIPT OF APPROVAL AND RECOMMENDATION OF ACCEPTANCE FROM EACH REPRESENTATIVE.

11. FURNISH A ONE YEAR WRITTEN GUARANTEE OF MATERIALS AND WORKMANSHIP FROM THE DATE OF SUBSTANTIAL COMPLETION.

12. REVIEW AND COORDINATE WITH THE MECHANICAL, FIRE PROTECTION AND PLUMBING CONTRACT DOCUMENTS FOR DUCTS, LINES AND EQUIPMENT.

13. ALL FINAL CONNECTIONS TO OWNER FURNISHED EQUIPMENT SHALL BE MADE BY THE CONTRACTOR.

14. COORDINATE WITH OTHER TRADES AS TO THE EXACT LOCATION OF THEIR RESPECTIVE EQUIPMENT. SUPPLY POWER AND MAKE CONNECTION TO MOTORS AND EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS AS INDICATED ON THE SINGLE LINE DIAGRAM, ELECTRICAL DRAWINGS, AND DRAWINGS OF OTHER TRADES. REVIEW THE DRAWINGS OF OTHER TRADES FOR CONTROL DIAGRAMS, SIZE AND LOCATION OF EQUIPMENT. DISCONNECT SWITCHES, STARTERS, WIRING, CONTROLS, AND CONDUIT FOR MECHANICAL AND PLUMBING OPERATIONS SHALL BE PROVIDED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING MANUFACTURER'S SHOP DRAWINGS PRIOR TO ROUGHING IN ALL CONDUIT TO THIS EQUIPMENT.

15. EXACT METHOD AND LOCATION OF CONDUIT PENETRATION AND OPENINGS IN CONCRETE OR MASONRY WALLS, GRADEBEAMS, FLOORS OR STRUCTURAL STEEL MEMBERS SHALL BE AS DIRECTED BY THE STRUCTURAL ENGINEER. PERFORM CORING, SAWCUTTING, PATCHING, AND REFINISHING OF WALLS AND SURFACES WHEREVER IT IS NECESSARY TO PENETRATE. OPENINGS SHALL BE SEALED IN AN APPROVED METHOD TO MEET THE FIRE RATING OF THE PARTICULAR WALL, FLOOR OR CEILING. EXACT METHOD AND LOCATIONS OF CONDUIT PENETRATIONS AND OPENINGS IN CONCRETE WALLS OR FLOORS SHALL BE UL APPROVED.

16. CONNECTIONS TO MECHANICAL, PLUMBING AND VIBRATING EQUIPMENT AND SEISMIC SEPARATIONS:

   LIQUID-TIGHT FLEXIBLE STEEL CONDUIT IN DRY INTERIOR LOCATIONS.

   LIQUID-TIGHT FLEXIBLE STEEL CONDUIT IN AREAS EXPOSED TO WEATHER, DAMP LOCATIONS, CONNECTIONS TO TRANSFORMER ENCLOSURES, AND FINAL CONNECTIONS TO MOTORS.

17. EQUIPMENT OUTLETS, LIGHTING FIXTURES, CONDUIT, WIRE, AND CONNECTION METHODS IN HVAC AIR-PLENUMS SHALL BE APPROVED FOR USE IN PLENUMS AND SHALL CONFORM TO THE CALIFORNIA ELECTRICAL CODE.

18. ROUTE EXPOSED CONDUIT AND CONDUIT ABOVE ACCESSIBLE CEILING SPACES PARALLEL AND PERPENDICULAR TO WALLS AND ADJACENT PIPING. ARRANGE CONDUIT TO MAINTAIN HEADROOM AND TO PRESENT A NEAT APPEARANCE.

19. CONDUIT SHALL NOT BE INSTALLED IN ANY FLOOR SLAB. CONDUIT SHALL BE INSTALLED CONCEALED IN THE CEILING SPACE, CONCEALED IN WALLS, OR 24" MINIMUM BELOW SLAB ON GRADE UNLESS NOTED OTHERWISE.

20. LOCATE ELECTRICAL EQUIPMENT AND BOXES, IN ACCESSIBLE CEILING SPACE OR PROVIDE AN ACCESS PANEL FOR INACCESSIBLE CEILING SYSTEMS. ACCESS DOORS SHALL BE A MINIMUM DIMENSION OF 24"x24". ACCESS DOOR LOCATIONS SHALL SUIT ACCESSIBILITY AND CONSTRUCTION CONDITIONS. ACCESS DOORS SHALL HAVE A FIRE RATING EQUAL TO THE CEILING ASSEMBLY IN WHICH THEY ARE INSTALLED.

21. COORDINATE REQUIRED ACCESS DOORS IN NON-ACCESSIBLE CEILINGS TO SUIT FIELD CONDITIONS. THE EXACT SIZES AND PHYSICAL LOCATIONS SHALL SUIT ACCESSIBILITY AND CONSTRUCTION CONDITIONS. ACCESS DOORS SHALL BE PROVIDED IN OTHER SECTIONS OF THE SPECIFICATIONS. ACCESS DOORS SHALL HAVE A FIRE RATING EQUAL TO THE CEILING ASSEMBLY IN WHICH THEY ARE INSTALLED

22. WHENEVER A DISCREPANCY OF ANY SYSTEM AND/OR EQUIPMENT ARISES ON THE CONTRACT DOCUMENTS OR SPECIFICATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL MATERIAL AND SERVICES REQUIRED BY THE STRICTEST CONDITIONS NOTED ON THE DRAWINGS OR SPECIFICATIONS TO ENSURE COMPLETE AND OPERABLE SYSTEMS AS REQUIRED BY THE OWNER AND ARCHITECT/ENGINEER.

23. VERIFY TYPE OF CEILING SYSTEMS AND FURNISH APPROVED LIGHTING FIXTURES OF THE TYPE REQUIRED FOR MOUNTING IN THE SPECIFIC CEILING. WHERE FIXTURES ARE RECESSED IN PLASTER OR DRYWALL CEILINGS, THEY SHALL BE COMPLETE WITH NECESSARY MOUNTING HARDWARE AND PLASTER FRAMES.

24. ALL EQUIPMENT/DEVICES INSTALLED RECESSED IN FIRE RATED CEILINGS OR WALLS SHALL BE ENCLOSED WITH AN APPROVED UL LISTED ENCLOSURE CARRYING THE SAME FIRE RATING AS THE CEILING OR WALL.

25. UTILITY PENETRATIONS OF ANY KIND IN FIRE AND SMOKE PARTITIONS AND CEILING ASSEMBLIES, SHALL BE FIRESTOPPED AND SEALED WITH AN APPROVED UL LISTED SYSTEM OR MATERIAL.

    STEEL ELECTRICAL OUTLET BOXES WHICH DO NOT EXCEED 16 SQUARE INCHES IN AREA, NEED NOT BE PROTECTED IN ONE HOUR OR TWO HOUR FIRE RATED WALLS, PARTITIONS, CEILINGS, OR AREA SEPARATION UNLESS THEY:

    OCCUR ON OPPOSITE SIDES OF THE WALL WITHIN 24 INCH HORIZONTAL DISTANCE OF ONE ANOTHER. IN THIS CASE, ONLY ONE OUTLET BOX NEED TO PROTECTED BY AN APPROVED FIRESTOP MATERIAL OR DETAIL TO CORRECT THIS CONDITION.

    OCCUR IN COMBINATION WITH OUTLET BOXES OF ANY SIZE SUCH THAT THE AGGREGATE AREA OF UNPROTECTED OUTLET BOXES EXCEEDS 100 SQUARE INCHES IN ANY 100 SQUARE FEET OF WALL AREA. IN THIS CASE, ONLY A SUFFICIENT NUMBER OF OUTLET BOXES NEED BE PROTECTED BY AN APPROVED MATERIAL OR DETAIL TO DECREASE THE AGGREGATE AREA OF UNPROTECTED UTILITY BOXES TO LESS THAN 100 SQUARE INCHES IN ANY 100 SQUARE FEET OF WALL.

    STEEL ELECTRICAL OUTLET BOXES WHICH EXCEED 16 SQUARE INCHES IN AREA, AND ALL OTHER STEEL UTILITY OUTLET BOXES REGARDLESS OF SIZE, SHALL BE PROTECTED BY AN APPROVED FIRESTOP MATERIAL AS LISTED OR EQUAL.

    FIRESTOPPING MATERIAL: MPP-1 MOLDABLE PUTTY PADS

    3M CONTRACTOR PRODUCTS
    MINNEAPOLIS, MN
    3M TEST REPORT NO. 1167
    DATED AUGUST 21, 1987

    FSP FIRESTOP PUTTY PADS
    HEVI-DUTY NELSON PRODUCTS
    TULSA, OK

    FLAMESAFE FSP 1077 FIRESTOP PADS
    INTERNATIONAL PROTECTIVE COATINGS
    OAKHURST, NJ

    STEEL UTILITY BOXES WHICH EXCEED 100 SQUARE INCHES IN AREA SHALL BE PROTECTED BY ENCASEMENT.

    UTILITY AND ELECTRICAL OUTLETS OR BOXES SHALL BE SECURELY FASTENED TO THE STUD FRAMING OF THE WALL, PARTITION OR CEILING ASSEMBLY. THE OPENING IN THE GYPSUM BOARD FACING SHALL BE CUT SO THAT THE CLEARANCE BETWEEN THE BOX AND THE GYPSUM BOARD DOES NOT EXCEED 1/8 INCH. IN SMOKE WALLS OR PARTITIONS, THE 1/8 INCH CLEARANCE SHALL BE FILLED WITH AN APPROVED FIRE-RATED SEALANT.

26. ARCHITECTURAL REFLECTED CEILING PLANS INDICATING THE LOCATION OF LIGHTING FIXTURES SHALL TAKE PRECEDENCE OVER THE LOCATIONS OF SAME SHOWN ON THE ELECTRICAL DRAWINGS. INSTALL THE LIGHTING FIXTURES IN ANY GIVEN AREA PER THE ARCHITECTURAL REFLECTED CEILING PLANS. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.

27. REFER TO SINGLE LINE DIAGRAM AND FEEDER SCHEDULES FOR CONDUIT AND CONDUCTOR SIZE TO PANELS. MECHANICAL AND PLUMBING EQUIPMENT, ETC. CONDUIT RUNS MAY NOT BE SHOWN ON DRAWINGS, BUT SHALL BE INCLUDED AS PART OF THIS CONTRACT.

28. STRAIGHT FEEDER, BRANCH CIRCUIT, AND CONDUIT RUNS SHALL BE PROVIDED WITH SUFFICIENT PULL BOXES OR JUNCTION BOXES TO LIMIT THE MAXIMUM LENGTH OF ANY SINGLE CABLE PULL TO 100 FEET. PULL BOXES SHALL BE SIZED PER CODE OR AS INDICATED ON DRAWINGS. LOCATIONS SHALL BE DETERMINED IN THE FIELD OR AS INDICATED ON THE DRAWINGS.

29. MAXIMUM QUANTITY OF CONDUCTORS IN AN OUTLET OR JUNCTION BOX SHALL CONFORM TO THE CALIFORNIA ELECTRICAL CODE, ARTICLE 314.16. IN NO CASE SHALL OUTLET OR JUNCTION BOXES CONTAIN MORE THAN THE FOLLOWING QUANTITY OF #12 AWG CONDUCTORS FOR THE SIZE OF BOX INDICATED. THE MINIMUM SIZE OUTLET OR JUNCTION BOX PERMITTED IN A WALL IS FOUR INCHES SQUARE BY 1-1/2 INCHES DEEP.

| | |
|---|---|
| 4" SQ. BY 1-1/2" D = | 9 CONDUCTORS |
| 4" SQ. BY 2-1/8" D = | 13 CONDUCTORS |
| 4-11/16" SQ. BY 1-1/2" D = | 11 CONDUCTORS |
| 4-11/16" SQ. BY 2-1/8" D = | 18 CONDUCTORS |

    ALL OUTLET BOXES CONTAINING MORE THAN ONE DEVICE SHALL BE GANGED. TWO DEVICES DOUBLE GANGED, MINIMUM.

30. WHERE MULTIPLE HOMERUNS ARE INDICATED ON DRAWINGS REFERENCING THE SAME PANELBOARD CIRCUIT NUMBER, PROVIDE JUNCTION BOX ABOVE ACCESSIBLE CEILING AND ROUTE ONE SET OF WIRES TO CIRCUIT BREAKERS.

31. THE LOCATION OF ALL ELECTRICAL DEVICES AND EQUIPMENT SHALL BE COORDINATED WITH THE ARCHITECTURAL ELEVATIONS, DETAILS, OR SECTIONS PRIOR TO INSTALLATION. ALL ELECTRICAL DEVICES AND EQUIPMENT SHALL BE RECESSED IN WALLS UNLESS OTHERWISE NOTED. OUTLETS NOT INDICATED ON ARCHITECTURAL ELEVATIONS SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO ROUGH-IN. UNLESS OTHERWISE NOTED, ELECTRICAL DEVICES SHALL BE MOUNTED PER "ACCESSIBLE DEVICE MOUNTING HEIGHT" DETAIL.

    REVIEW ARCHITECTURAL ELEVATIONS OF CASEWORK-OUTLETS MOUNTED ABOVE OR BELOW, OR ADJACENT TO CASEWORK SHALL BE COORDINATED WITH THE ARCHITECTURAL DRAWINGS, PRIOR TO FINAL ROUGH-IN. ELECTRICAL DRAWINGS SHALL GOVERN NUMBER AND TYPE OF OUTLETS; HOWEVER, LOCATIONS SHALL BE AS INDICATED ON ARCHITECTURAL ELEVATIONS. PROVIDE CONDUIT, WIRES, AND OUTLETS FOR WORK REQUIRED IN CASEWORK INSTALLATIONS. REFERENCE ARCHITECTURAL DETAILS FOR METHOD OF ROUTING CONDUIT WITHIN CASEWORK CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CUT-OUTS IN TILE OR COUNTER SPLASHES WHERE RECEPTACLES, OUTLETS, ETC., OCCUR. PROVIDE BOX EXTENSIONS THROUGH ALL CASEWORK TO ENSURE FINISHED INSTALLATION IS FLUSH WITH FACE OF SPLASH, CABINET, ETC.

    MOUNTING HEIGHTS OF ALL DEVICES AND EQUIPMENT ARE FROM FINISHED FLOOR TO CENTER OF DEVICES AND EQUIPMENT UNLESS OTHERWISE NOTED.

    BOXES INSTALLED IN LOCATIONS NOT APPROVED BY THE ARCHITECT SHALL BE RELOCATED AS DIRECTED BY THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.

32. DRAWINGS ARE DIAGRAMMATIC AND DO NOT INDICATE DETAILED CONDUIT ROUTING OR LENGTHS REQUIRED FOR COMPLETE INSTALLATION. ROUTING OF RACEWAYS SHALL BE AT THE OPTION OF THE CONTRACTOR BUT SHALL BE IN STRICT COMPLIANCE WITH STRUCTURAL REQUIREMENTS, CONTRACT DOCUMENTS AND SPECS UNLESS OTHERWISE NOTED. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES. DO NOT SCALE THE ELECTRICAL DRAWINGS FOR LOCATIONS OF ANY ELECTRICAL, ARCHITECTURAL, STRUCTURAL AND/OR MECHANICAL ITEMS OR FEATURES. REFER TO ARCHITECTURAL AND STRUCTURAL CONTRACT DOCUMENTS FOR DIMENSIONS.

33. A PROPERLY SIZED EQUIPMENT GROUNDING CONDUCTOR, ALTHOUGH NOT SHOWN ON CONDUIT RUNS, SHALL BE INSTALLED AND RUN CONTINUOUS FROM PANEL TO THE LAST DEVICE. THIS WIRE SHALL BE PIGTAILED IN EACH OUTLET FOR CONNECTION TO BOX AND DEVICE SUCH THAT IF DEVICE IS REMOVED THE CONTINUITY OF THE GROUND WILL NOT BE COMPREMISED/INTERRUPTED. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL BE INSULATED GREEN CONDUCTORS - ALTERNATE METHODS OF IDENTIFICATION SHALL NOT BE USED. CONTRACTOR SHALL NOTIFY ELECTRICAL ENGINEER TO EXAMINE CONDUCTOR INSTALLATION PRIOR TO INSTALLATION OF DEVICES.

34. ALL CONDUCTORS SHALL BE UL LISTED COPPER #12 AWG MINIMUM SIZE, TYPE THHN/THWN THERMOPLASTIC, 600 VOLT, 75 DEGREES CELSIUS WET AND 90 DEGREES CELSIUS DRY AND UL LISTED UNLESS NOTED OTHERWISE. CONDUCTORS #10 AWG AND SMALLER SHALL BE SOLID. CONDUCTORS #8 AWG AND LARGER SHALL BE STRANDED.

35. PANEL SCHEDULES SHALL BE REVISED TO REFLECT FINAL ROOM NAMES AND NUMBERS USING OWNERS ROOM NAMES AND NUMBERS DESIGNATIONS.

36. WHERE OUTLETS OCCUR AT TACKABLE WALL PANELS OR OTHER WALL FINISHES, PROVIDE EXTENSION RINGS AS REQUIRED SO THAT NO SPACE WILL EXIST BETWEEN DEVICE PLATE AND BACKBOX, PER CALIFORNIA ELECTRICAL CODE 314.20. SEE ARCHITECTURAL ELEVATIONS FOR WALL FINISHES AND LOCATIONS.

37. COORDINATE LOCATIONS OF ALL SEISMIC SEPARATIONS.

## EQUIPMENT ANCHORAGE NOTES

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE AGENCY APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT THE ATTACHMENT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.8, 13.6.7, 13.6.5.6, AND 2022 CBC, SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

## DEMOLITION NOTES

1. IN GENERAL, THE DEMOLITION PLAN INDICATES ALL EXISTING EQUIPMENT TO BE REMOVED; HOWEVER, ELECTRICAL EQUIPMENT, WHETHER SHOWN ON THIS DRAWING OR NOT, THAT IS LOCATED IN REMOVED WALLS, FLOORS OR CEILINGS, SHALL BE REMOVED/RELOCATED UNLESS OTHERWISE NOTED.
2. THE CONTRACTOR SHALL VISIT THE SITE AND ALL AREAS INCLUDED IN THE DRAWINGS. CONTRACTOR SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH THESE EXISTING CONDITIONS, AND BY SUBMITTING A BID ACCEPTS CONDITIONS UNDER WHICH THE CONTRACTOR WILL BE REQUIRED TO PERFORM HIS WORK.
3. IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO DISCONNECT AND REMOVE ALL EXISTING LIGHTING FIXTURES, RECEPTACLES, ELECTRICAL EQUIPMENT, ETC., AFFECTED BY THE REMODELED AREA. THIS WILL INCLUDE REROUTING, OR THE EXTENSION OF EXISTING CONDUIT AND FEEDERS WHERE NECESSARY TO MAINTAIN THE CONTINUITY OF EQUIPMENT TO REMAIN.
4. ALL CIRCUIT NUMBERS AND EXISTING CONDUIT HOMERUNS SHOWN ON THESE DRAWINGS WERE TAKEN FROM EXISTING RECORD DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF HOMERUNS, AND ADJUST CIRCUIT NUMBERS ACCORDING TO EXISTING CONDITIONS AS REQUIRED.
5. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO MAINTAIN CONTINUITY OF ALL ELECTRICAL SYSTEMS, EQUIPMENT, ETC., REMAINING IN OPERATION WHICH ARE BEING FED BY AN ABANDONED OUTLET. MAINTAINING CONTINUITY SHALL CONSIST OF REROUTING CONDUIT, WIRING, ETC., AS REQUIRED.
6. ALL ELECTRICAL FIXTURES, OUTLETS, DEVICES, ETC., THAT ARE REMOVED SHALL BE REMOVED COMPLETELY, INCLUDING CONDUIT AND WIRING BACK TO THE LAST FIXTURE, OUTLET, DEVICE, ETC., REMAINING IN SERVICE.
7. EXISTING CIRCUITS WHICH ARE REMOVED AND NOT REUSED SHALL BE IDENTIFIED ON THE PANEL SCHEDULE AS "SPARE".
8. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO REMOVAL OF EXISTING ELECTRICAL EQUIPMENT AND CONDUCTORS. CONTRACTOR SHALL TURN OVER REMOVED EQUIPMENT THAT THE OWNER REQUESTS IN AN "AS-FOUND" CONDITION. EQUIPMENT THAT IS TO BE TURNED OVER SHALL BE BOXED AND TAGGED TO IDENTIFY THE SPECIFIC EQUIPMENT.
9. WHERE NEW CIRCUITS ARE SHOWN TO EXISTING PANELS, INSTALL NEW BREAKERS (MINIMUM 20 AMP, SINGLE POLE) AS REFERENCED ON DRAWINGS. IDENTIFY EACH NEW CIRCUIT ON THE ASSOCIATED PANEL SCHEDULE DIRECTORY.
10. EXISTING CONDUIT MAY BE REUSED IF ADEQUATELY SIZED, BUT IN NO CASE SHALL ANY EXISTING CONDUCTORS BE REUSED.
11. IN SOME INSTANCES, IT MAY BE NECESSARY FOR THE ELECTRICAL CONTRACTOR TO TEMPORARILY RELOCATE, REROUTE, ETC., EXISTING ELECTRICAL EQUIPMENT. THIS SHALL BE DONE SO THAT THE SYSTEMS IN ALL PHASES (THOSE COMPLETED AND THOSE YET TO BEGIN), ARE IN COMPLETE, OPERABLE, CONDITION AS CONSTRUCTION PROCEEDS THROUGH EACH PHASE
12. WHERE NEW CIRCUITS ARE SHOWN CROSSING PHASING BOUNDARIES THE CONTRACTOR SHALL CONNECT ALL EQUIPMENT, FIXTURES, ETC., IN THE PHASE WHICH IS THEN UNDER CONSTRUCTION. CONTRACTOR SHALL STUB-OUT ALL REQUIRED CONDUIT AND WIRING ACROSS PHASE BOUNDARIES, THEN PICK UP AND EXTEND THESE CONDUIT RUNS WHEN CONSTRUCTION BEGINS IN THE ADJACENT PHASE.
13. DURING EACH PHASE OF DEMOLITION, ALL CIRCUITS FROM EXISTING PANELS WHICH FEED AREAS OUTSIDE THE BOUNDARIES OF THAT PHASE, SHALL BE MAINTAINED.
14. ALL DEVICES REMOVED TO ACCOMPLISH DEMOLITION WORK SHALL BE REINSTALLED SIMILAR TO NEW WORK.
15. DO NOT REMOVE EXISTING FIRE ALARM DEVICES OR EQUIPMENT UNTIL NEW FIRE ALARM SYSTEM HAS BEEN, INSTALLED, TESTED, APPROVED AND ACCEPTED BY THE LOCAL FIRE AUTHORITY IN INSTANCES EXISTING FIRE ALARM DEVICES ARE REMOVED PRIOR TO ACCEPTANCE BY THE AHS(S). A FIRE WATCH IS REQUIRED WHENEVER THE BUILDING (WHOLE OR PARTIAL) IS OCCUPIED. CFC ART 87. EXISTING FIRE ALARM DEVICE SHALL NOT BE ABANDON IN PLACE PER CEC 820.53(3)(D).
16. THE CONTRACTOR SHALL PROVIDE STAINLESS STEEL COVER PLATE ON ALL BACK BOXES TO REMAIN WHERE OPENINGS HAVE BEEN CREATED BY REMOVED DEVICES TO COMPLY WITH CEC 314.25.

## FIRE ALARM DEFERRED APPROVAL NOTES

THE FIRE ALARM SYSTEM WORK SHALL NOT BE STARTED UNTIL THE DETAILED DRAWINGS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS HAVE BEEN ACCEPTED AND SIGNED BY THE ENGINEER OF RECORD WHO HAS DELEGATED RESPONSIBILITY COVERING THE WORK SHOWN ON THE DRAWINGS AND SPECIFICATION.

THE FIRE ALARM SYSTEM SHALL MEET THE CONTRACT DOCUMENT REQUIREMENTS. FIRE ALARM SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT WITHIN 7 CALENDAR DAYS AFTER NOTICE TO PROCEED. THE FIRE ALARM SHOP DRAWINGS SHALL CONTAIN THE FOLLOWING INFORMATION:

1. A FIRE ALARM SYSTEM IS REQUIRED IN ACCORDANCE WITH CCR, TITLE 24, AND SHALL CONFORM TO CCR, PART 3, TITLE 24, ARTICLE 760.
2. INDICATE WHAT TYPE OF FIRE ALARM SYSTEM IS BEING PROVIDED IN ACCORDANCE WITH CCR, PART 3, TITLE 24, SEC. 760-1.
3. PROVIDE CATALOG DATA, CSFM LISTING NUMBER, AND MODEL NUMBER FOR EVERY FIRE ALARM SYSTEM COMPONENT.
4. PROVIDE SINGLE LINE, RISER, AND POINT-TO-POINT WIRING DIAGRAMS.
5. AN EMERGENCY WARNING SYSTEM WITH VISUAL STROBE DEVICES IS REQUIRED FOR THE HEARING IMPAIRED, CCR, TITLE 24.
6. INDICATE THE CONDUIT SIZES, QUANTITY AND TYPE OF CONDUCTORS, AND WHETHER THE SYSTEM IS POWER LIMITED OR NON-POWER LIMITED.
7. PROVIDE BATTERY CALCULATIONS FOR THE ENTIRE SYSTEM (24 HOUR STANDBY, 5 MINUTE ALARM TIME).
8. PROVIDE FLOOR PLANS SHOWING LOCATIONS OF ALL FIRE ALARM EQUIPMENT. INTERCONNECT WIRING, REMOTE POWER SUPPLIES, AND ANNUNCIATORS.
9. PROVIDE VOLTAGE DROP CALCULATIONS FOR ALL SIGNAL CIRCUITS.

## SHEET INDEX


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| E202 | LOWER LEVEL LIGHTING PLAN |
| E203 | MAIN LEVEL LIGHTING PLAN |
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| E205 | MAIN LEVEL POWER PLAN |
| E206 | ELECTRICAL ROOF PLAN |
| ED201 | LOWER LEVEL LIGHTING PLAN - ADD ALTS |
| ED202 | MAIN LEVEL LIGHTING PLAN - ADD ALTS |
| ED203 | LOWER LEVEL POWER PLAN - ADD ALTS |
| ED204 | MAIN LE

# ELECTRICAL ABBREVIATIONS

| | |
|---|---|
| AF | AMPERE FUSE RATING |
| AFF | ABOVE FINISHED FLOOR |
| AIC | AMPS INTERRUPTED CAPACITY RATING (RMS SYMMETRICAL MINIMUM) |
| AM | AMMETER |
| AMP, A | AMPERES |
| APPR | APPROVED |
| AS | AMPERE SWITCH RATING |
| AT | AMPERE TRIP RATING OR BREAKER |
| AUTO | AUTOMATIC |
| ATS | AUTOMATIC TRANSFER SWITCH |
| AWG | AMERICAN WIRE GAUGE |
| BRD, BD | BOARD |
| BFC | BELOW FINISHED CEILING |
| BKR | BREAKER |
| C. | CONDUIT |
| CAB | CABINET |
| CAT | CATEGORY |
| CC | CENTER TO CENTER |
| cd | CANDELA |
| CHLOR | CHLORINE, CHLORINATION |
| CKT | CIRCUIT |
| CMH | COMMUNICATION MANHOLE |
| C.O. | CONDUIT ONLY |
| COMPT | COMPARTMENT |
| COMPR | COMPRESSOR |
| CPB | COMMUNICATION PULLBOX |
| CPT | CONTROL POWER TRANSFORMER |
| CR | CONTROL RELAY (MAGNETICALLY HELD U.N.O.) |
| CSFM | CALIFORNIA STATE FIRE MARSHALL |
| CT | CURRENT TRANSFORMER |
| CU | COPPER |
| D.C.A. | DETECTOR CHECK ASSEMBLY |
| DISC. | DISCONNECT |
| DISTR | DISTRIBUTION |
| DWG | DRAWING |
| ELEV | ELEVATION |
| EMERG, EM | EMERGENCY |
| ENCL | ENCLOSURE |
| EQPT | EQUIPMENT |
| EXH | EXHAUST |
| E | EXISTING |
| FAA | FIRE ALARM ANNUNCIATOR |
| FDR | FEEDER |
| FF | FINISHED FLOOR |
| FG | FINISHED GRADE |
| FS | FLOW SWITCH |
| FLEX | FLEXIBLE |
| FLUOR | FLUORESCENT |
| FOC | FIBER OPTIC CABLE |
| FUT | FUTURE |
| FUP | FUSE, CPT PRIMARY |
| FUS | FUSE, CPT SECONDARY |
| GND, GRD,G | GROUND |
| HH | HAND HOLE |
| HOA | HAND-OFF-AUTOMATIC |
| HTR | HEATER |
| HZ | HERTZ |
| IDF | INTERMEDIATE DISTRIBUTION FRAME |
| ICPB | INTERCEPT COMMUNICATION PULLBOX |
| INC | INCANDESCENT |
| IND | INDICATION |
| INSTR | INSTRUMENT |
| IPPB | INTERCEPT POWER PULLBOX |
| ISC | SHORT CIRCUIT CURRENT |
| J.B. | JUNCTION BOX |
| K | THOUSAND (KILO) |
| KV | KILOVOLTS |
| KW | KILOWATTS |
| KVA | KILOVOLT AMPERES |
| KVAR | KILOVOLT AMPERES REACTIVE |
| KWH | KILOWATT HOURS |
| KWHD | KILOWATT HOUR DEMAND METER |
| LCP | LIGHTING CONTROL PANEL |
| LOS | PUSH BUTTON WITH "LOCK-OUT-STOP" |
| LS | LIMIT SWITCH |
| LT, LTS | LIGHT, LIGHTS |
| LTG | LIGHTING |
| LV | LOW VOLTAGE |
| MA | MILLIAMPS |
| MAN | MANUAL |
| MAG | MAGNETIC |
| MAX | MAXIMUM |
| MCB | MAIN CIRCUIT BREAKER |
| MCC | MOTOR CONTROL CENTER |
| MCM | THOUSAND CIRCULAR MILS |
| MCP | MOTOR CIRCUIT PROTECTOR |
| MDF | MAIN DISTRIBUTION FRAME |
| MH | MANHOLE |
| MS | MANUAL MOTOR STARTER |
| MIN | MINUTES, MINIMUM |
| MOV | MOTOR OPERATED VALVE, METAL OXIDE VARISTER |
| MT, MTD, MTG | MOUNT, MOUNTED, MOUNTING |
| N.A.P. | NEUTRALIZATION ALARM PANEL |
| NO, NOS | NUMBER, NUMBERS |
| NP | NAMEPLATE |
| NTS | NOT TO SCALE |
| OC | ON CENTER |
| OL | OVERLOAD |
| PB | PULLBOX |
| PIV | POST INDICATOR VALVE |
| PMH | POWER MANHOLE |
| PNL | PANEL |
| PNLBD | PANELBOARD |
| POS | POSITION |
| PPB | POWER PULLBOX |
| PRI | PRIMARY |
| PS | PRESSURE SWITCH |
| PT | POTENTIAL TRANSFORMER |
| PVC | POLYVINYL CHLORIDE |
| PW | PART WINDING |
| PWR | POWER |
| REC | RECEPTACLE |
| RECPTS | RECEPTACLES |
| REQD | REQUIRED |
| SA | STATUS ANNUNCIATOR |
| SCH | SCHEDULE |
| SEC | SECONDS, SECONDARY |
| SECT | SECTION |
| SEL SW | SELECTOR SWITCH |
| SEQ | SEQUENCE |
| SHLD | SHIELDED |
| SHT | SHEET |
| SIG | SIGNAL |
| SM | START CONTACTOR COIL |
| SPECS | SPECIFICATIONS |
| SP HTR | SPACE HEATER |
| ST | SHUNT TRIP |
| STA | STATION |
| STD | STANDARD |
| STL | STEEL |
| STR | STARTER |
| SV | SOLENOID VALVE |
| SW | SWITCH |
| SYS | SYSTEM |
| TACH | TACHOMETER |
| TC | TIME-CLOCK |
| TDOD | TIME DELAY ON DE-ENERGIZATION |
| TDOE | TIME DELAY ON ENERGIZATION |
| TEMP | TEMPERATURE |
| TERM | TERMINAL |
| THERM | THERMOSTAT |
| TR | TIME DELAY RELAY |
| TS | TAMPER SWITCH |
| TSP | TWISTED SHIELDED PAIR |
| TSTAT | THERMOSTAT |
| TYP. | TYPICAL |
| U.N.O. | UNLESS NOTED OTHERWISE |
| UGPS | UNDERGROUND PULL SECTION |
| UTP | UNSHIELDED TWISTED PAIR |
| VFD | VARIABLE FREQUENCY DRIVE |
| V | VOLTS |
| VM | VOLTMETER |
| VS | VOLTMETER SWITCH |
| W | WATTS |
| WHM | WATT HOUR METER |
| WP | WEATHERPROOF |
| WPL | WEATHERPROOF LOCKING |
| XFMR | TRANSFORMER |
| XMTR | TRANSMITTER |

# ELECTRICAL SYMBOLS LIST

SWITCH. LOWER CASE LETTER AT BOTTOM INDICATES OUTLETS CONTROLLED. CAPITAL SUPERSCRIPT INDICATES SWITCH TYPE. MOUNT PER DETAIL #1 ON E0.1 U.N.O.

| | | |
|---|---|---|
| NO SUPERSCRIPT | - | SINGLE POLE SWITCH |
| 2 | - | DOUBLE POLE |
| 3 | - | THREE WAY |
| 4 | - | FOUR WAY |
| I | - | ILLUMINATED HANDLE |
| K | - | KEYED SWITCH |
| LC | - | LOCKABLE COVER |
| M | - | MANUAL MOTOR STARTER WITH THERMAL OVERLOAD PROTECTION |
| MC | - | MOMENTARY CONTACT |
| P | - | PILOT LIGHT |
| PR | - | PRESS TYPE |
| TP | - | THREE POSITION |
| T | - | TIMER-0-4 HR ROTARY WITH HOLD-ON FEATURE |
| L | - | LOCKABLE POSITION TOGGLE SWITCH |

MS-1 — FEEDER DESIGNATION. SEE SINGLE LINE DIAGRAM, FEEDER SCHEDULES AND ELECTRICAL SITE PLAN.

DUPLEX GROUNDING TYPE RECEPTACLE, 20 AMP, 125 VOLT, 2 POLE, 3 WIRE. MOUNT PER DETAIL #1 ON E0.1 U.N.O. "TV" ADJACENT INDICATES MOUNTING OF RECEPTACLE AT +96". COORDINATE LOCATIONS WITH SIGNAL DRAWINGS. "C" ADJACENT SYMBOL INDICATES DEVICE MOUNTED ON CEILING TYPICAL UNLESS NOTED OTHERWISE.

DUPLEX GROUNDING TYPE CONTROLLED RECEPTACLE, 20AMP, 125 VOLT, 2 POLE, 3 WIRE. MOUNT PER DETAIL #1/E0.1 U.N.O. RECEPTACLE SHALL HAVE PERMANENT IDENTIFICATION.

DUPLEX GROUND FAULT INTERRUPTING TYPE RECEPTACLE, 20 AMP, 125 VOLT, 2 POLE, 3 WIRE. MOUNT PER DETAIL #1 ON E0.1 U.N.O. "WPL" ADJACENT INDICATES WEATHER RESISTANT STAINLESS STEEL LOCKING COVER.

FLUSH FLOOR MOUNTED DUPLEX GROUNDING TYPE RECEPTACLE, 20 AMP, 125 VOLT, 2 POLE, 3 WIRE IN SPECIAL FLOOR BOX.

DUPLEX GROUNDING TYPE RECEPTACLE, 20 AMP, 125 VOLT, 2 POLE, 3 WIRE. MOUNT ABOVE COUNTER PER DETAIL #1 ON E0.1 U.N.O.

DUPLEX GROUND FAULT INTERRUPTING TYPE RECEPTACLE, 20 AMP, 125 VOLT, 2 POLE, 3 WIRE. MOUNT ABOVE COUNTER PER DETAIL #1 ON E0.1 U.N.O.

TWO DUPLEX GROUNDING TYPE RECEPTACLES IN 4S BOX, 20 AMP, 125 VOLT, 2 POLE, 3 WIRE. MOUNT PER DETAIL #1 ON E0.1 U.N.O.

TWO DUPLEX GROUND FAULT INTERRUPTING TYPE RECEPTACLES IN 3-GANG BOX WITH 2-GANG RING AND PLATE. 20A., 125 VOLT, 2 POLE, 3 WIRE. MOUNT PER DETAIL #1 ON E0.1 U.N.O.

TWO 20 AMP DUPLEX RECEPTACLES IN SPECIAL FLOOR BOX.

SPECIAL PURPOSE OUTLET MOUNTED IN FLUSH WALL BOX. LETTER INDICATES TYPE. "L" ADJACENT INDICATES TWIST LOCK TYPE

| | | |
|---|---|---|
| A | - | NEMA TYPE 5-30R (125 VOLT, 1 PHASE, 30 AMP) |
| B | - | NEMA TYPE 5-50R (125 VOLT, 1 PHASE, 50 AMP) |
| C | - | NEMA TYPE 6-20R (250 VOLT, 1 PHASE, 20 AMP) |
| D | - | NEMA TYPE 6-30R (250 VOLT, 1 PHASE, 30 AMP) |
| E | - | NEMA TYPE 6-50R (250 VOLT, 1 PHASE, 50 AMP) |
| F | - | NEMA TYPE 11-20R (250 VOLT, 3 PHASE, 20 AMP) |
| G | - | NEMA TYPE 11-30R (250 VOLT, 3 PHASE, 30 AMP) |
| H | - | NEMA TYPE 11-50R (250 VOLT, 3 PHASE, 50 AMP) |
| J | - | NEMA TYPE 14-20R (125/250 VOLT, 1 PHASE, 20 AMP) |
| K | - | NEMA TYPE 14-30R (125/250 VOLT, 1 PHASE, 30 AMP) |
| M | - | NEMA TYPE 14-50R (125/250 VOLT, 1 PHASE, 50 AMP) |
| N | - | NEMA TYPE L22-30R (480 VOLT, 3 PHASE) |

100AS — NON-FUSED DISCONNECT SWITCH. "AS" INDICATES SWITCH AMPERE RATING UNLESS NOTED OTHERWISE ON DRAWINGS.

F — FUSED DISCONNECT SWITCH. "AS" INDICATES SWITCH AMPERE RATING. "AF" INDICATES FUSE AMPERE RATING.

VFD II — MAGNETIC MOTOR STARTER. ROMAN NUMERAL INDICATES NEMA STARTER SIZE. ADDITIONAL SUBSCRIPTS INDICATE STARTER TYPE AND SIZE. (TYPICAL FOR ALL MAGNETIC STARTER SYMBOLS.)

| | | |
|---|---|---|
| NO SUBSCRIPT | - | FULL VOLTAGE, NON REVERSING |
| PR | - | PRIMARY RESISTOR REDUCED VOLTAGE |
| AT | - | AUTOTRANSFORMER REDUCED VOLTAGE |
| WD | - | WYE-DELTA REDUCED VOLTAGE |
| PW | - | PART WINDING REDUCED VOLTAGE |
| SS | - | SOLID STATE REDUCED VOLTAGE |
| REV | - | REVERSING TYPE |
| 2S | - | TWO SPEED |
| 2W | - | TWO WINDINGS |
| CH | - | CONSTANT HORSEPOWER |
| CT | - | CONSTANT TORQUE |
| VT | - | VARIABLE TORQUE |
| VFD | - | VARIABLE FREQUENCY DRIVE |

COMBINATION MAGNETIC MOTOR STARTER AND NON-FUSED DISCONNECT SWITCH. TYPE AS INDICATED ABOVE.

F II — COMBINATION MAGNETIC MOTOR STARTER AND FUSED DISCONNECT SWITCH. TYPE AS INDICATED ABOVE.

SINGLE PHASE FRACTIONAL OR INTEGRAL HORSEPOWER

DUPLEX ISOLATED GROUNDING TYPE RECEPTACLE, 20 AMP, 125 VOLT, 2 POLE, 3 WIRE WITH SEPARATE GROUND WIRE ROUTED TO PANEL AND CONNECTED TO ISOLATED GROUND BUS. DEVICE TO BE ORANGE IN COLOR. MOUNT PER DETAIL #1 ON E0.1 U.N.O.. COORDINATE LOCATIONS WITH SIGNAL DRAWINGS.

DUPLEX ISOLATED GROUNDING TYPE RECEPTACLE, 20 AMP, 125 VOLT, 2 POLE, 3 WIRE WITH SEPARATE GROUND WIRE ROUTED TO PANEL AND CONNECTED TO ISOLATED GROUND BUS. DEVICE TO BE ORANGE IN COLOR. MOUNT PER DETAIL #1 ON E0.1 U.N.O.. COORDINATE LOCATIONS WITH SIGNAL DRAWINGS. DEVICE IS TO BE CEILING MOUNTED.

TWO (2) DUPLEX ISOLATED GROUNDING TYPE RECEPTACLES, 20 AMP, 125 VOLT, 2 POLE, 3 WIRE WITH SEPARATE GROUND WIRE ROUTED TO PANEL AND CONNECTED TO ISOLATED GROUND BUS. DEVICE TO BE ORANGE IN COLOR. MOUNT PER DETAIL #1 ON E0.1 U.N.O.. COORDINATE LOCATIONS WITH SIGNAL DRAWINGS. DEVICE IS TO BE CEILING MOUNTED.

D 4 a — DIGITAL WALL SWITCH WITH "ON/OFF" AND DIMMING CAPABILITY. REFER TO DETAIL #3/E4.01 FOR MANUFACTURERS AND MODEL NUMBERS. NUMERAL ADJACENT INDICATES QUANTITY OF BUTTONS. LOWER CASE LETTER AT BOTTOM INDICATES FIXTURES CONTROLLER. MOUNT AT +48" PER DETAIL #1/E0.1.

S — WALL MOUNTED INFRARED/ULTRASONIC OCCUPANCY SENSOR SWITCH/DIMMER. MOUNT AT +48". SENSOR SWITCH #WSX-PDT-D OR APPROVED EQUAL.

OS — INFRARED/ULTRASONIC DUAL TECHNOLOGY TYPE DIGITAL OCCUPANCY SENSOR COMPLETE WITH ALL POWER SUPPLIES, RELAY PACKS AND CONNECTIONS. REFER TO DETAIL #3/E4.01 FOR MANUFACTURE AND MODEL NUMBER.

RL a — DIGITAL ROOM CONTROLLER/POWER PACK WITH 0-10 VOLT DIMMING AND CAT5 CABLE CONNECTIONS. REFER TO DETAIL #3/E4.01 FOR MANUFACTURERS AND MODEL NUMBERS. LOWER CASE LETTER ADJACENT INDICATES LIGHT FIXTURES CONTROLLED.

PC a — DIGITAL PHOTOCELL. REFER TO DETAIL #3/E4.01 FOR MANUFACTURE AND MODEL NUMBER. LOWER CASE LETTER ADJACENT INDICATES LIGHT FIXTURES CONTROLLED.

PL A-1 — DIGITAL RECEPTACLE CONTROLLER WITH 20AMP RATED RELAY AND CAT5 CABLE CONNECTIONS. REFER TO DETAIL #3/E4.01 FOR MANUFACTURE AND MODEL NUMBERS. CIRCUIT ADJACENT SYMBOLS INDICATES CIRCUIT TO BE CONTROLLED.

(E) — EQUIPMENT WITH "E" ADJACENT IS EXISTING TO REMAIN.

(R) — EXISTING EQUIPMENT WITH "R" ADJACENT IS TO BE COMPLETELY DISCONNECTED AND REMOVED.

(RR) — EXISTING EQUIPMENT WITH "RR" ADJACENT IS TO BE DISCONNECTED, REMOVED AND RELOCATED TO NEW LOCATION AND RECONNECTED AS REQUIRED.

(ER) — RELOCATED EQUIPMENT SHOWN IN NEW LOCATION.

—E— EXISTING CONDUIT RUN TO REMAIN. EXISTING CONDUCTORS TO REMAIN UNLESS NOTED OTHERWISE ON DRAWINGS.

—EA— EXISTING CONDUIT RUN TO BE ABANDONED. REMOVE CONDUCTORS AND CAP ENDS OF CONDUIT.

—EX— EXISTING CONDUIT RUN TO BE REWIRED. REFER TO PLANS FOR WIRING REQUIREMENTS.

—R— EXISTING CONDUIT AND WIRE RUN TO BE COMPLETELY DISCONNECTED AND REMOVED BACK TO LAST REMAINING OUTLET OR DEVICE.

—R—E— "X" INDICATES APPROXIMATE POINT OF INTERCEPTION OF EXISTING CONDUIT RUN. CONDUIT TO BE REMOVED AT "R" SIDE OF "X". REMOVE ALL CONDUCTORS PRIOR TO CUTTING CONDUIT. EXACT LOCATION OF ALL CONDUITS SHALL BE FIELD VERIFIED.

CONDUIT RUN CONCEALED IN WALLS OR UNDER FLOORS.

CONDUIT RUN EXPOSED.

CONDUIT RUN UNDERGROUND.

CONDUIT STUBBED OUT AND CAPPED. PULL LINE IN PLACE.

CROSS LINES ON CONDUIT RUNS INDICATE NUMBER OF #12 CURRENT CARRYING CONDUCTORS CONTAINED THEREIN. TWO #12 AND MINIMUM OF ONE #12 GROUND WIRE ARE INDICATED WHEN CROSS LINES ARE NOT SHOWN. NUMERALS ADJACENT TO CROSS LINES ON CONDUIT RUNS INDICATE SIZE OF CONDUCTORS IN LIEU OF #12. ALL CONDUITS SHALL CONTAIN ONE GROUND WIRE SIZED PER C.E.C. TABLE 250.122. BUT NOT SMALLER THAN #12. WHERE ISOLATED GROUND RECEPTACLES ARE INDICATED, PROVIDE ADDITIONAL #12 GROUND WIRE IN CONDUIT RUNS, CONNECTED FROM ISOLATED GROUND BUS IN PANEL TO DEVICE.

B-1,3 — CONDUIT HOMERUN TO PANELBOARD. LETTER AND NUMERALS INDICATE ELECTRICAL PANEL AND CIRCUIT NUMBER.

SURFACE MOUNTED BRANCH CIRCUIT PANELBOARD.

RECESSED BRANCH CIRCUIT PANELBOARD.

PNL — PANEL DESIGNATION.

SURFACE MOUNTED COMMUNICATION TERMINAL CABINET. REFER TO DRAWINGS AND SPECIFICATIONS.

RECESSED COMMUNICATION TERMINAL CABINET. REFER TO DRAWINGS AND SPECIFICATIONS.

J — JUNCTION BOX IN ACCESSIBLE CEILING SPACE OR FLUSH IN WALL WITH BLANK COVER PLATE TO MATCH DEVICE PLATES.

J — JUNCTION BOX FLUSH FLOOR MOUNTED.

J — JUNCTION BOX PEDESTAL TYPE FLOOR MOUNTED.

M — THREE PHASE FRACTIONAL OR INTEGRAL HORSEPOWER MOTOR. NUMERAL IN PLACE OF "M" INDICATES HORSEPOWER. (SINGLE LINE DIAGRAM ONLY).

100AF 100AT 3P — MOLDED CASE CIRCUIT BREAKER AND NUMBER OF POLES AS INDICATED. "AT" INDICATES TRIP RATING. "AF" INDICATES AMPERE FRAME SIZE. SUBSCRIPT INDICATES TYPE.

| | |
|---|---|
| NO SUBSCRIPT | THERMAL MAGNETIC |
| NA | NON-AUTOMATIC |
| MO | MAGNETIC ONLY |
| CL | CURRENT LIMITING |
| SS | SOLID STATE |

100AS 90AF 3P — FUSED SWITCH. "AS" INDICATES AMPERE SWITCH RATING, "AF" INDICATES AMPERE FUSE RATING, NUMBER OF POLES AS INDICATED.

ENCLOSED VOLTAGE TRANSFORMER PER SPEC'S. COPPER WOUND, DRY TYPE, U.N.O.

M — UTILITY METER SOCKET, WITH C.T.'S, CLIPS, ETC., PER SERVING UTILITY COMPANY.

GROUND, "GRD", "GND".

GF — BREAKER EQUIPPED WITH THE GROUND FAULT PROTECTION

GFI — "GROUND FAULT INTERRUPTER"

1a — CEILING LIGHT FIXTURE AND OUTLET. LOWER CASE LETTER INDICATES CONTROLLING SWITCH, NUMERAL INDICATES CIRCUIT. SHADED SYMBOL INDICATES FIXTURE WITH EMERGENCY POWER PROVISIONS.

1a — LIGHT FIXTURE OUTLET. LOWER CASE LETTER INDICATES CONTROLLING SWITCH, NUMERAL INDICATES CIRCUIT. SHADED CIRCLE DENOTES FIXTURE WITH EMERGENCY POWER PROVISIONS.

1a — STRIP FIXTURE. LOWER CASE LETTER INDICATES CONTROLLING SWITCH. NUMERAL INDICATES CIRCUIT. SHADED CIRCLE DENOTES FIXTURE WITH EMERGENCY POWER PROVISIONS.

1a — BRACKET OR WALL MOUNTED SURFACE OR RECESSED LIGHT FIXTURE AND OUTLET, HID, FLUORESCENT OR INCANDESCENT. LOWER CASE LETTER INDICATES CONTROLLING SWITCH, NUMERAL INDICATES CIRCUIT. SHADED CIRCLE DENOTES FIXTURE WITH EMERGENCY POWER PROVISIONS.

ILLUMINATED EXIT LIGHT FIXTURE. SIDE, BACK, CEILING, OR PENDANT MOUNTED, SINGLE OR DOUBLE FACED AS NOTED BY SHADED ARC, WITH OR WITHOUT DIRECTIONAL ARROW AS NOTED ON THE DRAWINGS. EXIT SIGN SHALL NOT BE USED AS JUNCTION BOX OR "THROUGH-WIRE"

L — LOW LEVEL EXIT LIGHT FIXTURE, WALL MOUNTED WITH OR WITHOUT DIRECTIONAL ARROW AS NOTED ON THE DRAWINGS. BOTTOM OF FIXTURE AT +10" ABOVE FINISHED FLOOR AND WITHIN FOUR INCHES OF DOOR FRAME WHERE APPLICABLE.

O 16 / 72 / +12'-0" — LIGHTING FIXTURE IDENTIFICATION SYMBOL. LETTER INDICATES FIXTURE TYPE. NUMERALS IN LOWER HALF OF HEXAGON INDICATE FIXTURE WATTAGE (INCLUDING BALLAST WHERE APPLICABLE). NUMERAL OUTSIDE TOP OF HEXAGON INDICATES NUMBER OF FIXTURES USED FOR LOAD CALCULATIONS. NUMERAL OUTSIDE BOTTOM OF HEXAGON INDICATES MOUNTING HEIGHT FROM FLOOR TO BOTTOM OF FIXTURE. OMISSION OF MOUNTING HEIGHT INDICATES CEILING MOUNTING.

WALL MOUNTED DUAL HEAD EMERGENCY LIGHTING FIXTURE UNIT.

W — TELEPHONE OUTLET, 4S DEEP BACKBOX & SINGLE GANG RING. MOUNT PER DETAIL #1 ON E0.1 U.N.O. "W" ADJACENT INDICATES WALL MOUNTED AT SWITCH HEIGHT PER DETAIL #1 ON E0.1 U.N.O. PROVIDE 1"CONDUIT MINIMUM STUBBED UP INTO CEILING SPACE.

DATA OUTLET, 4S DEEP BACKBOX & SINGLE GANG RING. MOUNT PER DETAIL #1 ON E0.1 U.N.O. PROVIDE 1"CONDUIT MINIMUM STUBBED UP INTO CEILING SPACE.

HATCH INDICATES PRIMARY SIDELIT DAYLIT ZONE.

HATCH INDICATES SECONDARY SIDELIT DAYLIT ZONE.

RECESSED MOUNTED COMBINATION POWER/DATA FLOOR BOX. PROVIDE WITH (2) DUPLEX GROUNDING TYPE RECEPTACLES, 20 AMP, 125 VOLT, 2 POLE, 3 WIRE. FLOOR BOX SHALL BE EQUAL TO LEGRAD #RFB4 SERIES. COORDINATE COVER TYPE WITH THE ARCHITECT PRIOR TO ORDERING.


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PROJECT TITLE:

# Altadena Main Library

600 E MARIPOSA STREET
ALTADENA, CA 91001

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|---|---|
| PROJECT NO. | 2111010 |
| DATE: | Issue Date |

SHEET TITLE:

## ELECTRICAL SYMBOLS LIST AND ABBREVIATIONS

SCALE: N.T.S.


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E002

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## LIGHTING FIXTURE SCHEDULE

| TYPE | DESCRIPTION | FINISH | LAMP(S) | REMARKS | MANUFACTURER & NO. |
|---|---|---|---|---|---|
| A 9.5 | RECESSED MOUNTED DIRECT LINEAR LIGHT FIXTURE WITH EXTRUDED ALUMINUM TRIM AND ACRYLIC DIFFUSER. MOUNTING FOR GYP CEILING. MIN. 935L OUTPUT PER FOOT. 277V. | WHITE SATIN | LED 4000K | TYPE 'A': REFER TO LIGHTING PLANS FOR FIXTURE LENGTHS. PROVIDE INSTALLATION SHOP DRAWINGS PRIOR TO ORDERING. | MARK LIGHTING #SL1L-LOP-*FT-FL-90CRI-40K-1000LMF-MIN1-MVOLT EQUAL BY FOCAL POINT "SEEM 2" SERIES OR PAL "MICROLINEA SERIES 2" |
| B 9.5 | RECESSED MOUNTED DIRECT LINEAR LIGHT FIXTURE WITH EXTRUDED ALUMINUM TRIM AND ACRYLIC DIFFUSER. MOUNTING FOR T-BAR CEILING. MIN. 935L OUTPUT PER FOOT. 277V. | WHITE SATIN | LED 4000K | TYPE 'B': REFER TO LIGHTING PLANS FOR FIXTURE LENGTHS. PROVIDE INSTALLATION SHOP DRAWINGS PRIOR TO ORDERING. | MARK LIGHTING #SL1L-LOP-*FT-TG-90CRI-40K-1000LMF-MIN1-MVOLT EQUAL BY FOCAL POINT "SEEM 2" SERIES OR PAL "MICROLINEA SERIES 2" |
| C 3.4 | RECESSED MOUNTED COVE LINEAR LIGHT FIXTURE WITH WALL WASH OPTIC AND GYP CEILING MOUNTING. MIN. 367L OUTPUT PER FOOT. 277V. | NA | LED 4000K | TYPE 'C': REFER TO LIGHTING PLANS FOR FIXTURE LENGTHS. PROVIDE INSTALLATION SHOP DRAWINGS PRIOR TO ORDERING. | MARK LIGHTING #SPRLED-LOP-*FT-RLP-FL-80CRI-40K-400LMF-MIN10-MVOLT EQUAL BY FOCAL POINT "SEEM 4" SERIES OR LEDALITE "TRUGROOVE" SERIES |
| D 31 | RECESSED MOUNTED 2X4 LED TROFFER WITH EXTRUDED ACRYLIC DIFFUSER. MIN. 4000L OUTPUT. 277V. | WHITE | LED 4000K | | LITHONIA LIGHTING #2BLT4-40L-ADP-MVOLT-EZ1-LP840 EQUAL BY METALUX "CRUZE ST" SERIES OR DAY-BRITE "EVOGRID" SERIES |
| E 40 | SURFACE/WALL MOUNTED LIGHT FIXTURE WITH "CRESCENT" SHAPED DIFFUSER. MIN. 4000L OUTPUT. 277V. | WHITE | LED 4000K | | LITHONIA LIGHTING #WL4-40L-MVOLT-EZ1-L840 EQUAL BY METALUX "SWLED" SERIES OR DAY-BRITE "FLUXSTREAM STRIP" SERIES |
| F 5 | EMERGENCY EDGE LIT EXIT LIGHT, LED TYPE, RED LETTERS, SINGEL FACE, WALL, CEILING OR END MOUNT, WITH DIRECTIONAL ARROWS AS SHOWN. 277V. | CLEAR WITH ALUMINUM HOUSING | LED | TYPE "L": VERIFY MOUNTING CONFIGURATION AND ARROWS PRIOR TO ORDERING FIXTURES. | BEGHELLI #CYC-SA-LR1-C-*-BA EQUAL BY CHLORIDE "44R" SERIES OR |
| G 15 | 4.5" SQUARE RECESSED DOWNLIGHT WITH FLANGED SEMI SPECULAR REFLECTOR AND WIDE DISTRIBUTION. 277V. MINIMUM 1300 LUMEN OUTPUT. | COLOR SELECTED BY ARCHITECT | LED 4000K | TYPE "G": PROVIDE CORRECT MOUNTING KIT FOR EACH FIXTURE PER CEILING TYPE. | USAI LIGHTING #P4SDF-15L2-40KS-F-WH-NC-UNV-D22-XX |
| H 8.2 | SURFACE MOUNTED UNDER CABINET LIGHT FIXTURE WITH CONTROL SWITCH. MIN. 544L OUTPUT. 120V. | WHITE | LED 4000K | | JUNO LIGHTING #UCES-18IN-SW-W4-90CRI-WH-M6 EQUAL BY ACCENT "9018" SERIES OR GLOBALUX LIGHTING "AUC" SERIES |
| J 15 | 4 FOOT LONG SURFACE MOUNTED LED COVE LIGHT FIXTURE WITH ASYMMETRIC REFLECTOR. 277V. MINIMUM 400 LUMENS PER FOOT. | WHITE | LED 4000K | TYPE "J": PROVIDE ALL REQUIRED MOUNTING HARDWARE AND POWER "WHIP" CONNECTORS REQUIRED FOR A COMPLETE INSTALLATION. | MARK LIGHTING #MCV504-LSL-4FT-MSL4-MCFMC-40K-400LMF-ASYM-MIN1-MVOLT-SGW-ZT-XX |
| K 18 | LINEAR RECESSED 4 FOOT LED LIGHT FIXTURE WITH EXTRUDED ALUMINUM HOUSING AND GASKETED POLYCARBONATE LENS. IP65 RATED. 277V. MINIMUM 400 LUMENS PER FOOT. | COLOR SELECTED BY ARCHITECT | LED 4000K | | AXIS LIGHTING #WBRLED-400-80-40-S-4-C-277-DP-1-DF |
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## ACCEPTANCE TESTING

MANDATORY ACCEPTANCE TESTING PER TITLE 24, PART 6 SECTION 130.4 SHALL BE AS FOLLOWS:

THE CONTRACTOR SHALL PROVIDE THE ACCEPTANCE TESTING AGENT. THE ACCEPTANCE TESTING AGENT SHALL BE A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (CLCATT). THE CLCATT SHALL PERFORM ALL LIGHTING CONTROL INSTALLATION CERTIFICATION AS REQUIRED BY TITLE 24, PART 6 SECTION 130.4 (a) AND 130.4 (b). THIS SHALL INCLUDE, BUT NOT LIMITED TO, FILLING OUT, SIGNING AND SUBMITTING ALL REQUIRED DOCUMENTATION.

THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE LIGHTING CONTROL SYSTEMS WITH THE CLCATT PRIOR TO INSTALLATION.

## LIGHTING CONTROL SYSTEM SEQUENCE OF OPERATIONS

REFER TO LIGHTING PLANS FOR QUANTITY AND LOCATION OF ALL LIGHTING CONTROL COMPONENTS AND LIGHT FIXTURES; IDENTIFICATION OF LIGHT FIXTURE AND DEVICE SWITCH LEG IDENTIFICATION. REFER TO THE LIGHTING CONTROL WIRING DIAGRAMS FOR ADDITIONAL INFORMATION. LIGHTING CONTROLS SHALL BE INSTALLED IN COMPLIANCE WITH 2022 CALIFORNIA ENERGY CODE (CEC) SECTION 130.1 MINIMUM.

OFFICE(LIGHTING) - ROOM OCCUPANCY SENSOR(S) SHALL TURN LIGHT FIXTURES OFF WHEN ROOM HAS BEEN UNOCCUPIED FOR 20 MINUTES. LIGHT FIXTURES SHALL BE TURNED ON TO 50 PERCENT WHEN ROOM BECOMES OCCUPIED. WHEN LIGHT FIXTURES ARE TURNED ON AT WALL SWITCH, THEY SHALL BE SET OR COME ON TO FULL BRIGHTNESS OR PRESET FOOT CANDLE LEVELS.

WALL DIMMERS SHALL BE USED FOR MANUAL CONTROL OF LIGHT FIXTURES AND SHALL BE EQUIPPED WITH AN ON/OFF SWITCH.

LIGHT FIXTURES WHICH ARE REQUIRED TO HAVE AUTOMATIC "DAYLIGHTING" CONTROLS SHALL ALSO BE CONTROLLED WITH A PHOTOCELL IN ADDITION TO OCCUPANCY SENSORS AND WALL DIMMERS. THE PHOTOCELL SHALL MEASURE THE AMOUNT OF DAYLIGHT ENTERING THE SPACE AND REDUCE THE LIGHT OUTPUT OF THE LIGHT FIXTURES TO MAINTAIN THE DESIGNED FOOT CANDLE LEVELS IN THE ROOM. WALL DIMMERS SHALL ALLOW THE LIGHT FIXTURES TO DIM LOWER THAN THE LIGHT BEING MEASURED IN THE ROOM, BUT NOT HIGHER.

WALL DIMMERS SHALL BE USED FOR MANUAL CONTROL OF LIGHT FIXTURES AND SHALL BE EQUIPPED WITH AN ON/OFF SWITCH. WHERE MULTI-BUTTON SWITCH(S)/DIMMER(S) ARE USED, EACH BUTTON SHALL BE PROGRAMMED FOR A SPECIFIC LIGHTING SCENE. ACTIVATION OF A SPECIFIC BUTTON SHALL AUTOMATICALLY RECALL THE LIGHTING SCENE. "ON/OFF" AND MANUAL DIMMING CONTROL FUNCTIONS SHALL OVERRIDE PRESET SCENES. REFER TO LIGHTING CONTROL WIRING DIAGRAMS FOR SCENE SETTINGS AND SWITCH BUTTON IDENTIFICATION WHERE REQUIRED.

LIGHT FIXTURES WHICH ARE REQUIRED TO HAVE AUTOMATIC "DAYLIGHTING" CONTROLS SHALL ALSO BE CONTROLLED WITH A PHOTOCELL IN ADDITION TO OCCUPANCY SENSORS AND WALL DIMMERS. THE PHOTOCELL SHALL MEASURE THE AMOUNT OF DAYLIGHT ENTERING THE SPACE AND REDUCE THE LIGHT OUTPUT OF THE LIGHT FIXTURES TO MAINTAIN THE DESIGNED FOOT CANDLE LEVELS IN THE ROOM. WALL DIMMERS SHALL ALLOW THE LIGHT FIXTURES TO DIM LOWER THAN THE LIGHT BEING MEASURED IN THE ROOM, BUT NOT HIGHER.

WALL SWITCHES SHALL BE USED FOR MANUAL "ON/OFF" CONTROL OF LIGHT FIXTURES.

WALL SWITCHES SHALL BE USED FOR MANUAL "ON/OFF" CONTROL OF LIGHT FIXTURES.

WHERE SHOWN ON PLANS, WALL DIMMERS SHALL BE USED FOR MANUAL CONTROL OF LIGHT FIXTURES AND SHALL BE EQUIPPED WITH AN "ON/OFF" SWITCH.

STORAGE ROOMS - ROOM OCCUPANCY WALL SENSOR(S) SHALL TURN LIGHT FIXTURES OFF WHEN ROOM HAS BEEN UNOCCUPIED FOR 15 MINUTES. LIGHT FIXTURES SHALL BE MANUALLY TURNED ON WHEN ROOM IS OCCUPIED. WHEN LIGHT FIXTURES ARE TURNED ON, THEY SHALL BE SET TO FULL BRIGHTNESS OR PRESET FOOT CANDLE LEVELS.

WALL SWITCHES SHALL BE USED FOR MANUAL "ON/OFF" CONTROL OF LIGHT FIXTURES.

WHERE SHOWN ON PLANS, WALL DIMMERS SHALL BE USED FOR MANUAL CONTROL OF LIGHT FIXTURES AND SHALL BE EQUIPPED WITH AN "ON/OFF" SWITCH.

LIGHT LEVELS:
LIGHTING LEVELS (FOOTCANDLES) WILL BE DESIGNED IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY (IES) GUIDELINES. THE FOLLOWING LIGHTING LEVELS WILL BE PROVIDED:

| AREA | MAINTAINED LIGHTING LEVEL AT THE WORK PLANE |
|---|---|
| OFFICES | 40-50 |
| LOBBY | 20-30 |
| STORAGE/JANITOR'S ROOM | 10-20 |
| COMMUNICATIONS EQUIPMENT ROOMS | 50-70 |
| LIBRARY | 40-50 |

## LIGHTING FIXTURE NOTES

1. EXIT SIGNS WITH THROUGH WIRING SHALL BE EQUIPPED WITH A SEPARATE JUNCTION BOX FOR TERMINATION OF CONDUITS. FURNISH A SEPARATE BOX FOR EACH CIRCUIT.
2. CONTRACTOR SHALL VERIFY ALL MOUNTING REQUIREMENTS FOR ALL RECESSED LIGHTING FIXTURES, PRIOR TO SHOP DRAWINGS SUBMITTALS. IT IS THE CONTRACTORS RESPONSIBILITY TO SECURE THE MOUNTING HARDWARE THAT IS COMPATIBLE WITH THE CEILING AND THE CONFIGURATION OF THE LIGHTING LAYOUT.
3. FOR LIGHTING FIXTURE VOLTAGE RATINGS, THE CONTRACTOR IS RESPONSIBLE TO VERIFY FIXTURE AND DRIVER VOLTAGES WITH BRANCH CIRCUIT WIRING.
4. LAMP COLOR FOR LED FIXTURES SHALL BE 4000°K U.N.O.
5. LENSES OF ALL LED LIGHTING FIXTURES SHALL NOT BE LESS THAN 0.125" THICK, EQUAL TO KSH-K12 WHERE APPLICABLE.
6. FOR FIXTURES RECESSED INTO NON-COMBUSTIBLE CEILINGS, PROVIDE YOKE MOUNTED OUTLET BOXES, ACCESSIBLE FROM INSIDE FIXTURE.
7. FIXTURES SHALL BE U.L. LISTED FOR INTENDED LOCATION.
8. FINISH OF FIXTURES SHALL BE AS SELECTED BY ARCHITECT.
9. LIGHTING FIXTURES IN MECHANICAL SPACES ARE SHOWN IN THEIR APPROXIMATE LOCATION ONLY. DO NOT INSTALL LIGHT OUTLETS FOR FIXTURES UNTIL MECHANICAL PIPING AND DUCTWORK ARE INSTALLED; THEN LIGHTING FIXTURES SHALL BE INSTALLED IN LOCATIONS BEST SUITED FOR EQUIPMENT ARRANGEMENT AND AS APPROVED BY THE PROJECT MANAGER.
10. THE CONTRACTOR SHALL VERIFY ALL WINDOW HEIGHTS AND DAYLIT ZONES PRIOR TO INSTALLATION OF LIGHTING CONTROLS.
11. ALL LED LIGHT FIXTURES SHALL BE TESTED TO LM-79 AND LM-80 IES STANDARDS.

SUSPENDED ACOUSTICAL CEILINGS:

HEAVY DUTY GRID SYSTEM:
FLUSH OR RECESSED LIGHT FIXTURES WEIGHING LESS THAN 56 POUNDS MAY BE SUPPORTED DIRECTLY ON THE RUNNERS OF A HEAVY DUTY GRID SYSTEM. IN ADDITION, THEY SHALL HAVE A MINIMUM OF TWO 12 GAUGE SLACK SAFETY WIRES ATTACHED TO THE FIXTURE AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE. ALL 4 FOOT BY 4 FOOT LIGHT FIXTURES SHALL HAVE SLACK SAFETY WIRES AT EACH CORNER. ALL FLUSH OR RECESSED LIGHT FIXTURES WEIGHING 56 POUNDS OR MORE SHALL BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN 4 TAUT 12 GAUGE WIRES EACH ATTACHED TO THE FIXTURE AND TO THE STRUCTURE ABOVE. REGARDLESS OF THE TYPE OF CEILING GRID SYSTEM USED. THE 4 TAUT 12 GAUGE WIRES INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE SHALL BE CAPABLE OF SUPPORTING 4 TIMES THE WEIGHT OF THE UNIT.

SURFACE MOUNTED FIXTURES:
SUPPORT SURFACE MOUNTED LIGHT FIXTURES BY AT LEAST TWO POSITIVE DEVICES WHICH SURROUND THE CEILING RUNNER AND WHICH ARE EACH SUPPORTED FROM THE STRUCTURE ABOVE BY A 12 GAUGE WIRE. SPRING CLIPS OR CLAMPS THAT CONNECT ONLY TO THE RUNNER ARE NOT ACCEPTABLE. PROVIDE ADDITIONAL SUPPORTS WHEN LIGHT FIXTURES ARE EIGHT FEET OR LONGER.

SUSPENDED DRYWALL CEILINGS:
ALL RECESSED OR DROP-IN LIGHT FIXTURES SHALL BE SUPPORTED DIRECTLY BY MAIN RUNNERS OR BY SUPPLEMENTAL FRAMING WHICH IS SUPPORTED BY MAIN RUNNERS. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE CEILING CONTRACTOR TO PROVIDE APPROPRIATE FRAMING AND LOCATION FOR FIXTURES. SURFACE MOUNTED FIXTURES SHALL BE ATTACHED TO A MAIN RUNNER WITH A POSITIVE CLAMPING DEVICE MADE OF MATERIAL WITH A MINIMUM OF 14 GAUGE. ROTATIONAL SPRING CATCHES SHALL NOT BE ALLOWED.

PENDANT MOUNTED FIXTURES:
PENDANT MOUNTED FIXTURES SHALL BE SUPPORTED BY A WIRE OR (SAFETY) CABLE PASSING THROUGH EACH PENDANT HANGER AND CAPABLE OF SUPPORTING 4 TIMES THE WEIGHT OF THE FIXTURE. WHERE PENDANT MOUNTED FIXTURES ARE INSTALLED ON A GRID CEILING OR WHERE THE FIXTURE WEIGHS 50 POUNDS OR MORE, THE WIRE OR CABLE PASSING THROUGH THE PENDANT HANGER SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE.

PENDANT MOUNTED FIXTURES SHALL BE SUPPLIED WITH SWIVEL HANGERS AND SHALL BE CAPABLE OF SWINGING 45 DEGREES IN ANY DIRECTION FROM PLUMB WITHOUT OBSTRUCTION. FIXTURES SHALL HAVE STEMS WHICH ARE ONE PIECE WITHOUT COUPLING AND ARE TO HAVE THE SAME FINISH AS THE FIXTURE AND SWIVEL HANGER CANOPY. INDUSTRIAL TYPE FLUORESCENT FIXTURES INSTALLED IN AREAS OR ROOMS WITH EXPOSED STRUCTURE (NO CEILING) MAY BE CHAIN HUNG IN LIEU OF PROVIDING A STEM AND CANOPY. WHERE FIXTURES CAN NOT SWING UNOBSTRUCTED 45 DEGREES IN ANY DIRECTION, ADDITIONAL GUY WIRES OR SOLID BRACING IS REQUIRED. THE CONTRACTOR SHALL SUBMIT THE METHOD OF BRACING TO THE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION.

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PROJECT TITLE:

# Altadena Main Library

600 E MARIPOSA STREET
ALTADENA, CA 91001

| | |
|---|---|
| PROJECT NO. | 2111010 |
| DATE: | Issue Date |

SHEET TITLE:

LIGHTING FIXTURE SCHEDULE AND NOTES

SCALE: N.T.S.

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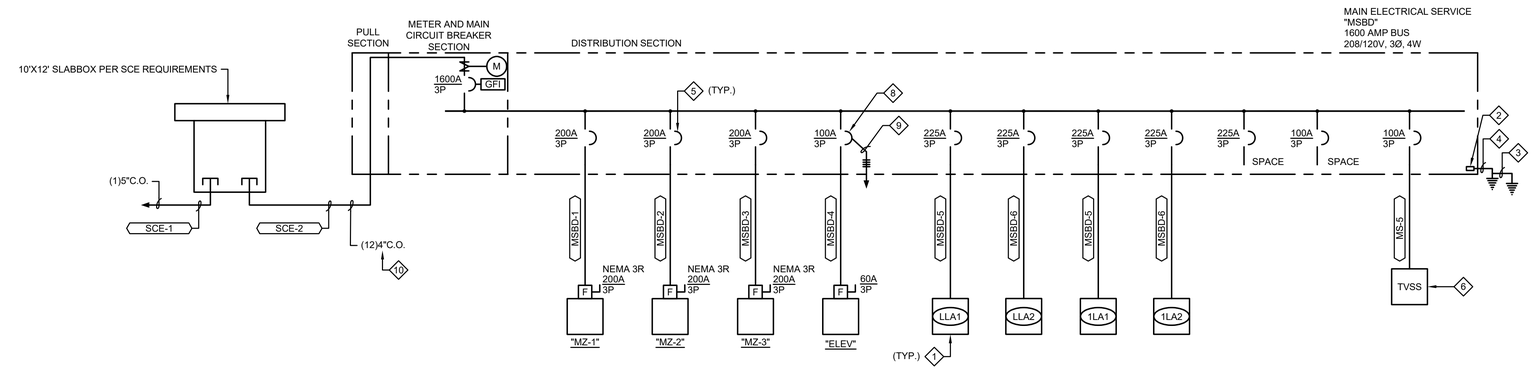


## SHEET NOTES

1. PANELBOARDS FOR ENTIRE PROJECT SHALL BE PROVIDED WITH SPACE PROVISIONS FOR BRANCH CIRCUIT ENERGY MONITORING PER CALIFORNIA ENERGY GUIDELINES, TYPICAL U.N.O.
2. CONTINUOUS COPPER GROUND BUS AND BONDING JUMPER AT MAIN SERVICE. THIS SHALL BE THE CENTRAL GROUND POINT FOR THE PROJECT. NO OTHER GROUND POINTS MAY BE USED.
3. INSTALL 1" CONDUIT & 1#4/0 TO ACCESSIBLE COLD WATER & GAS LINES WITHIN 5' OF LINES ENTERING BUILDING. BOND TO BUILDING STEEL USING EXOTHERMIC WELD PROCESS & APPROVED GROUNDING CLAMPS TO BUILDING WATER & GAS LINES.
4. INSTALL 1"C. WITH 1#250 MCM GROUNDING ELECTRODE CONDUCTOR TO "UFER" GROUND SYSTEM CABLE. UFER GROUND SYSTEM SHALL BE A MINIMUM OF 40' OF 250 MCM BARE COPPER GROUND IN BUILDING FOOTINGS.
5. ALL CIRCUIT BREAKERS SHALL BE FULLY RATED; NO SERIES RATED CIRCUIT BREAKER SHALL BE USED, TYPICAL.
6. PROVIDE AND INSTALL TRANSIENT VOLTAGE SURGE SUPPRESSION FILTER EQUAL TO CURRENT TECHNOLOGY #TG3-200-480-3Y-SN-T/B-MI-F23.
7. FURNISH GROUND BUS IN EACH BRANCH CIRCUIT PANEL. ALL PANELS 208/120 VOLT, SHALL HAVE THE FEEDER EQUIPMENT GROUNDING CONDUCTOR CONNECTED TO GROUND BUS. FURNISH EQUIPMENT GROUNDING CONDUCTORS IN EVERY FEEDER AND BRANCH CIRCUIT, RUN TO LAST OUTLET AND CONNECT TO BUS. CONDUIT GROUND IS NOT ACCEPTABLE AS A SUBSTITUTE. TYPICAL ALL PANELS, SWITCHBOARDS, DISTRIBUTION PANELBOARDS, AND SWITCHGEAR.
8. PROVIDE SHUNT-TRIP CIRCUIT BREAKER AT ELEVATOR AND CONNECT TO BUILDING FIRE ALARM SYSTEM TO DISCONNECT POWER PRIOR TO THE FLOW OF FIRE SPRINKLER WATER PER NFPA 72-21.4 & ASME 17.1.
9. EXTEND 3/4" CONDUIT AND WIRING TO FIRE ALARM CONTROL PANEL.
10. COORDINATE WITH SCE FOR SERVICE PATHWAY TO SWITCHGEAR AND PROVIDE CONDUITS AS NEED OR CABLE TRENCH PER SCE REQUIREMENTS.

DIST. BOARD: MSBD LOAD SUMMARY & FEEDER SCHEDULE VOLTAGE: 208/120V,3P,4W

BRANCH: NORMAL MIN. BUS: 1,600 AMPS

ENCLOSURE: NEMA-3R ** MCB TRIP: 1,600 AMPS

AIC RATING: 42,000 AIC SYM, MINIMUM

| FEEDER NUMBER | FEEDER | | NO. OF | CONDUIT | CONDUCTORS | GROUND | DEMAND LOAD | | CONNECTED LOAD | | FEEDER | VOLTAGE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | FROM | TO | SETS | (INCHES) | (AWG) | (AWG) | AMPS | KVA | AMPS | KVA | LENGTH* | DROP | |
| MSBD-1 | MSBD | "MZ-1" | 1 | 2 1/2" | 3 # 4/0 | 4 | 120.19 | 43.30 | 120.19 | 43.30 | | | |
| MSBD-2 | MSBD | "MZ-2" | 1 | 2 1/2" | 3 # 4/0 | 4 | 120.19 | 43.30 | 120.19 | 43.30 | | | |
| MSBD-3 | MSBD | "MZ-3" | 1 | 2 1/2" | 3 # 4/0 | 4 | 120.19 | 43.30 | 120.19 | 43.30 | | | |
| MSBD-4 | MSBD | ELEV. | 1 | 1 1/2" | 3 # 1 | 8 | | | | | | | |
| MSBD-5 | MSBD | LLA1 | 1 | 2 1/2" | 4 # 4/0 | 4 | | | | | | | |
| MSBD-6 | MSBD | LLA2 | 1 | 2 1/2" | 4 # 4/0 | 4 | | | | | | | |
| MSBD-7 | MSBD | 1LA1 | 1 | 2 1/2" | 4 # 4/0 | 4 | | | | | | | |
| MSBD-8 | MSBD | 1LA2 | 1 | 2 1/2" | 4 # 4/0 | 4 | | | | | | | |
| MSBD-9 | MSBD | | | | | | | | | | | | |
| MSBD-10 | MSBD | | | | | | | | | | | | |
| MSBD-11 | MSBD | | | | | | | | | | | | |
| MSBD-12 | MSBD | | | | | | | | | | | | |
| MSBD-13 | MSBD | | | | | | | | | | | | |
| MSBD-14 | MSBD | | | | | | | | | | | | |
| MSBD-15 | MSBD | | | | | | | | | | | | |
| | | | | | | | | | 360.57 | 129.90 | SUBTOTAL | | |
| | | | | | | | | | | | 25% OF LARGEST MOTOR | | |
| | | | | | | | | | 360.57 | 129.90 | TOTAL LOAD | | |

* FEEDER LENGTH IN FEET IS INDICATED FOR VOLTAGE DROP CALCULATION ONLY AND SHALL NOT BE USED FOR QUANTITY TAKEOFFS.

** MCB = MAIN CIRCUIT BREAKER ** MLO = MAIN LUGS ONLY


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## SINGLE LINE DIAGRAM AND FEEDER SCHEDULE

SCALE: N.T.S.


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E004

REGISTERED PROFESSIONAL ENGINEER — CHEN HSING TANG — No. E 16592 — ELECTRICAL — STATE OF CALIFORNIA


DCGA ENGINEERS
Consulting Mechanical and Electrical Engineers
4750 E. Ontario Mills Pkwy
Ontario, Ca. 91764
Ph.909.987.0017
Fax 909.980.7023

| Size-Ampacity | Copper AWG 12 (Max ampacity - 25 amps 60°) | | | | | | | | | | | | | | | | Copper AWG 10 (Max ampacity - 30 amps 60°) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Strands | 7 | 1 | 7 | 1 | 7 | 1 | 7 | 1 | 7 | 1 | 7 | 1 | 7 | 1 | 7 | 1 | 7 | 1 | 7 | 1 | 7 | 1 | 7 | 1 | 7 | 1 | 7 | 1 | 7 | 1 |
| Phase | 1 | 1 | 1 | 1 | 3 | 3 | 1 | 1 | 3 | 3 | 1 | 1 | 1 | 1 | 3 | 3 | 1 | 1 | 1 | 1 | 3 | 3 | 1 | 1 | 1 | 1 | 3 | 3 | | |
| Voltage | 120 | 120 | 208 | 208 | 208 | 208 | 240 | 240 | 240 | 240 | 277 | 277 | 480 | 480 | 480 | 480 | 120 | 120 | 208 | 208 | 208 | 208 | 240 | 240 | 240 | 240 | 277 | 277 | 480 | 480 | 480 | 480 |
| Amps | Maximum lenghts of wire at 3% voltage drop in feet | | | | | | | | | | | | | | | | Maximum lenghts of wire at 3% voltage drop in feet | | | | | | | | | | | | | | | |
| 1 | 909.1 | 932.6 | 1575.8 | 1616.6 | 1819.5 | 1866.7 | 1818.2 | 1865.3 | 2099.5 | 2153.8 | 2098.5 | 2152.8 | 3636.4 | 3730.6 | 4198.9 | 4307.7 | 1451.6 | 1487.6 | 2516.1 | 2578.5 | 2905.4 | 2977.4 | 2903.2 | 2975.2 | 3352.4 | 3435.5 | 3350.8 | 3433.9 | 5806.5 | 5950.4 | 6704.7 | 6870.9 |
| 2 | 454.5 | 466.3 | 787.9 | 808.3 | 909.8 | 933.3 | 909.1 | 932.6 | 1049.7 | 1076.9 | 1049.2 | 1076.4 | 1818.2 | 1865.3 | 2099.5 | 2153.8 | 725.8 | 743.8 | 1258.1 | 1289.3 | 1452.7 | 1488.7 | 1451.6 | 1487.6 | 1676.2 | 1717.7 | 1675.4 | 1716.9 | 2903.2 | 2975.2 | 3352.4 | 3435.5 |
| 3 | 303.0 | 310.9 | 525.3 | 538.9 | 606.5 | 622.2 | 606.1 | 621.8 | 699.8 | 717.9 | 699.5 | 717.6 | 1212.1 | 1243.5 | 1399.6 | 1435.9 | 483.9 | 495.9 | 838.7 | 859.5 | 968.5 | 992.5 | 967.7 | 991.7 | 1117.5 | 1145.2 | 1116.9 | 1144.6 | 1935.5 | 1983.5 | 2234.9 | 2290.3 |
| 4 | 227.3 | 233.2 | 393.9 | 404.1 | 454.9 | 466.7 | 454.5 | 466.3 | 524.9 | 538.5 | 524.6 | 538.2 | 909.1 | 932.6 | 1049.7 | 1076.9 | 362.9 | 371.9 | 629.0 | 644.6 | 726.3 | 744.4 | 725.8 | 743.8 | 838.1 | 858.9 | 837.7 | 858.5 | 1451.6 | 1487.6 | 1676.2 | 1717.7 |
| 5 | 181.8 | 186.5 | 315.2 | 323.3 | 363.9 | 373.3 | 363.6 | 373.1 | 419.9 | 430.8 | 419.7 | 430.6 | 727.3 | 746.1 | 839.8 | 861.5 | 290.3 | 297.5 | 503.2 | 515.7 | 581.1 | 595.5 | 580.6 | 595.0 | 670.5 | 687.1 | 670.2 | 686.8 | 1161.3 | 1190.1 | 1340.9 | 1374.2 |
| 6 | 151.5 | 155.4 | 262.6 | 269.4 | 303.3 | 311.1 | 303.0 | 310.9 | 349.9 | 359.0 | 349.7 | 358.8 | 606.1 | 621.8 | 699.8 | 717.9 | 241.9 | 247.9 | 419.4 | 429.8 | 484.2 | 496.2 | 483.9 | 495.9 | 558.7 | 572.6 | 558.5 | 572.3 | 967.7 | 991.7 | 1117.5 | 1145.2 |
| 7 | 129.9 | 133.2 | 225.1 | 230.9 | 259.9 | 266.7 | 259.7 | 266.5 | 299.9 | 307.7 | 299.8 | 307.5 | 519.5 | 532.9 | 599.8 | 615.4 | 207.4 | 212.5 | 359.4 | 368.4 | 415.1 | 425.3 | 414.7 | 425.0 | 478.9 | 490.8 | 478.7 | 490.6 | 829.5 | 850.1 | 957.8 | 981.6 |
| 8 | 113.6 | 116.6 | 197.0 | 202.1 | 227.4 | 233.3 | 227.3 | 233.2 | 262.4 | 269.2 | 262.3 | 269.1 | 454.5 | 466.3 | 524.9 | 538.5 | 181.5 | 186.0 | 314.5 | 322.3 | 363.2 | 372.2 | 362.9 | 371.9 | 419.0 | 429.4 | 418.9 | 429.2 | 725.8 | 743.8 | 838.1 | 858.9 |
| 9 | 101.0 | 103.6 | 175.1 | 179.6 | 202.2 | 207.4 | 202.0 | 207.3 | 233.3 | 239.3 | 233.2 | 239.2 | 404.0 | 414.5 | 466.5 | 478.6 | 161.3 | 165.3 | 279.6 | 286.5 | 322.8 | 330.8 | 322.6 | 330.6 | 372.5 | 381.7 | 372.3 | 381.5 | 645.2 | 661.2 | 745.0 | 763.4 |
| 10 | 90.9 | 93.3 | 157.6 | 161.7 | 182.0 | 186.7 | 181.8 | 186.5 | 209.9 | 215.4 | 209.8 | 215.3 | 363.6 | 373.1 | 419.9 | 430.8 | 145.2 | 148.8 | 251.6 | 257.9 | 290.5 | 297.7 | 290.3 | 297.5 | 335.2 | 343.5 | 335.1 | 343.4 | 580.6 | 595.0 | 670.5 | 687.1 |
| 15 | 60.6 | 62.2 | 105.1 | 107.8 | 121.3 | 124.4 | 121.2 | 124.4 | 140.0 | 143.6 | 139.9 | 143.5 | 242.4 | 248.7 | 279.9 | 287.2 | 96.8 | 99.2 | 167.7 | 171.9 | 193.7 | 198.5 | 193.5 | 198.3 | 223.5 | 229.0 | 223.4 | 228.9 | 387.1 | 396.7 | 447.0 | 458.1 |
| 16 | 56.8 | 58.3 | 98.5 | 101.0 | 113.7 | 116.7 | 113.6 | 116.6 | 131.2 | 134.6 | 131.2 | 134.6 | 227.3 | 233.2 | 262.4 | 269.2 | 90.7 | 93.0 | 157.3 | 161.2 | 181.6 | 186.1 | 181.5 | 186.0 | 209.5 | 214.7 | 209.4 | 214.6 | 362.9 | 371.9 | 419.0 | 429.4 |
| 17 | 53.5 | 54.9 | 92.7 | 95.1 | 107.0 | 109.8 | 107.0 | 109.7 | 123.5 | 126.7 | 123.4 | 126.6 | 213.9 | 219.4 | 247.0 | 253.4 | 85.4 | 87.5 | 148.0 | 151.7 | 170.9 | 175.1 | 170.8 | 175.0 | 197.2 | 202.1 | 197.1 | 202.0 | 341.6 | 350.0 | 394.4 | 404.2 |
| 18 | 50.5 | 51.8 | 87.5 | 89.8 | 101.1 | 103.7 | 101.0 | 103.6 | 116.6 | 119.7 | 116.6 | 119.6 | 202.0 | 207.3 | 233.3 | 239.3 | 80.6 | 82.6 | 139.8 | 143.3 | 161.4 | 165.4 | 161.3 | 165.3 | 186.2 | 190.9 | 186.2 | 190.8 | 322.6 | 330.6 | 372.5 | 381.7 |
| 19 | 47.8 | 49.1 | 82.9 | 85.1 | 95.8 | 98.2 | 95.7 | 98.2 | 110.5 | 113.4 | 110.4 | 113.3 | 191.4 | 196.3 | 221.0 | 226.7 | 76.4 | 78.3 | 132.4 | 135.7 | 152.9 | 156.7 | 152.8 | 156.6 | 176.4 | 180.8 | 176.4 | 180.7 | 305.6 | 313.2 | 352.9 | 361.6 |
| 20 | 45.5 | 46.6 | 78.8 | 80.8 | 91.0 | 93.3 | 90.9 | 93.3 | 105.0 | 107.7 | 104.9 | 107.6 | 181.8 | 186.5 | 209.9 | 215.4 | 72.6 | 74.4 | 125.8 | 128.9 | 145.3 | 148.9 | 145.2 | 148.8 | 167.6 | 171.8 | 167.5 | 171.7 | 290.3 | 297.5 | 335.2 | 343.5 |
| 25 | 36.4 | 37.3 | 63.0 | 64.7 | 72.8 | 74.7 | 72.7 | 74.6 | 84.0 | 86.2 | 83.9 | 86.1 | 145.5 | 149.2 | 168.0 | 172.3 | 58.1 | 59.5 | 100.6 | 103.1 | 116.2 | 119.1 | 116.1 | 119.0 | 134.1 | 137.4 | 134.0 | 137.4 | 232.3 | 238.0 | 268.2 | 274.8 |
| 30 | | | | | | | | | | | | | | | | | 48.4 | 49.6 | 83.9 | 86.0 | 96.8 | 99.2 | 96.8 | 99.2 | 111.7 | 114.5 | 111.7 | 114.5 | 193.5 | 198.3 | 223.5 | 229.0 |
| 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 70 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Size-Ampacity | Copper AWG 8 (Max ampacity - 40 amps 60°) | | | | | | | | | | | | | | | | Copper AWG 6 (Max ampacity - 55 amps 60°) | | | | | | | | | | Copper AWG 4 (Max ampacity - 70 amps 60°) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Strands | 7 | 1 | 7 | 1 | 7 | 1 | 7 | 1 | 7 | 1 | 7 | 1 | 7 | 1 | 7 | 1 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Phase | 1 | 1 | 1 | 1 | 3 | 3 | 1 | 1 | 3 | 3 | 1 | 1 | 1 | 1 | 3 | 3 | 1 | 1 | 3 | 1 | 3 | 3 | 1 | 1 | 3 | 3 | 1 | 1 | 3 | 1 | 1 | 3 |
| Voltage | 120 | 120 | 208 | 208 | 208 | 208 | 240 | 240 | 240 | 240 | 277 | 277 | 480 | 480 | 480 | 480 | 120 | 208 | 208 | 240 | 240 | 277 | 277 | 480 | 480 | 120 | 208 | 208 | 240 | 240 | 277 | 480 | 480 |
| Amps | Maximum lenghts of wire at 3% voltage drop in feet | | | | | | | | | | | | | | | | Maximum lenghts of wire at 3% voltage drop in feet | | | | | | | | | | | | | | | | |
| 1 | 2313.6 | 2356.0 | 4010.3 | 4083.8 | 4630.7 | 4715.5 | 4627.2 | 4712.0 | 5343.1 | 5441.0 | 5340.6 | 5438.5 | 9254.5 | 9424.1 | 10686.2 | 10882.0 | 3666.0 | 6354.4 | 7337.4 | 7332.0 | 8466.2 | 8462.3 | 9771.4 | 14664.0 | 16932.5 | 5844.2 | 10129.9 | 11697.0 | 11688.3 | 13496.5 | 13490.3 | 23376.6 | 26993.0 |
| 2 | 1156.8 | 1178.0 | 2005.1 | 2041.9 | 2315.3 | 2357.8 | 2313.6 | 2356.0 | 2671.5 | 2720.5 | 2670.3 | 2719.2 | 4627.2 | 4712.0 | 5343.1 | 5441.0 | 1833.0 | 3177.2 | 3668.7 | 3666.0 | 4233.1 | 4231.2 | 4885.7 | 7332.0 | 8466.2 | 2922.1 | 5064.9 | 5848.5 | 5844.2 | 6748.2 | 6745.1 | 11688.3 | 13496.5 |
| 3 | 771.2 | 785.3 | 1336.8 | 1361.3 | 1543.6 | 1571.8 | 1542.4 | 1570.7 | 1781.0 | 1813.7 | 1780.2 | 1812.8 | 3084.8 | 3141.4 | 3562.1 | 3627.3 | 1222.0 | 2118.1 | 2445.8 | 2444.0 | 2822.1 | 2820.8 | 3257.1 | 4888.0 | 5644.2 | 1948.1 | 3376.6 | 3899.0 | 3896.1 | 4498.8 | 4496.8 | 7792.2 | 8997.7 |
| 4 | 578.4 | 589.0 | 1002.6 | 1020.9 | 1157.7 | 1178.9 | 1156.8 | 1178.0 | 1335.8 | 1360.2 | 1335.2 | 1359.6 | 2313.6 | 2356.0 | 2671.5 | 2720.5 | 916.5 | 1588.6 | 1834.4 | 1833.0 | 2116.6 | 2115.6 | 2442.9 | 3666.0 | 4233.1 | 1461.0 | 2532.5 | 2924.2 | 2922.1 | 3374.1 | 3372.6 | 5844.2 | 6748.2 |
| 5 | 462.7 | 471.2 | 802.1 | 816.8 | 926.1 | 943.1 | 925.4 | 942.4 | 1068.6 | 1088.2 | 1068.1 | 1087.7 | 1850.9 | 1884.8 | 2137.2 | 2176.4 | 733.2 | 1270.9 | 1467.5 | 1466.4 | 1693.2 | 1692.5 | 1954.3 | 2932.8 | 3386.5 | 1168.8 | 2026.0 | 2339.4 | 2337.7 | 2699.3 | 2698.1 | 4675.3 | 5398.6 |
| 6 | 385.6 | 392.7 | 668.4 | 680.6 | 771.8 | 785.9 | 771.2 | 785.3 | 890.5 | 906.8 | 890.1 | 906.4 | 1542.4 | 1570.7 | 1781.0 | 1813.7 | 611.0 | 1059.1 | 1222.9 | 1222.0 | 1411.0 | 1410.4 | 1628.6 | 2444.0 | 2822.1 | 974.0 | 1688.3 | 1949.5 | 1948.1 | 2249.4 | 2248.4 | 3896.1 | 4498.8 |
| 7 | 330.5 | 336.6 | 572.9 | 583.4 | 661.5 | 673.6 | 661.0 | 673.1 | 763.3 | 777.3 | 762.9 | 776.9 | 1322.1 | 1346.3 | 1526.6 | 1554.6 | 523.7 | 907.8 | 1048.2 | 1047.4 | 1209.5 | 1208.9 | 1395.9 | 2094.9 | 2418.9 | 834.9 | 1447.1 | 1671.0 | 1669.8 | 1928.1 | 1927.2 | 3339.5 | 3856.1 |
| 8 | 289.2 | 294.5 | 501.3 | 510.5 | 578.8 | 589.4 | 578.4 | 589.0 | 667.9 | 680.1 | 667.6 | 679.8 | 1156.8 | 1178.0 | 1335.8 | 1360.2 | 458.2 | 794.3 | 917.2 | 916.5 | 1058.3 | 1057.8 | 1221.4 | 1833.0 | 2116.6 | 730.5 | 1266.2 | 1462.1 | 1461.0 | 1687.1 | 1686.3 | 2922.1 | 3374.1 |
| 9 | 257.1 | 261.8 | 445.6 | 453.8 | 514.5 | 523.9 | 514.1 | 523.6 | 593.7 | 604.6 | 593.4 | 604.3 | 1028.3 | 1047.1 | 1187.4 | 1209.1 | 407.3 | 706.0 | 815.3 | 814.7 | 940.7 | 940.3 | 1085.7 | 1629.3 | 1881.4 | 649.4 | 1125.5 | 1299.7 | 1298.7 | 1499.6 | 1498.9 | 2597.4 | 2999.2 |
| 10 | 231.4 | 235.6 | 401.0 | 408.4 | 463.1 | 471.6 | 462.7 | 471.2 | 534.3 | 544.1 | 534.1 | 543.8 | 925.4 | 942.4 | 1068.6 | 1088.2 | 366.6 | 635.4 | 733.7 | 733.2 | 846.6 | 846.2 | 977.1 | 1466.4 | 1693.2 | 584.4 | 1013.0 | 1169.7 | 1168.8 | 1349.6 | 1349.0 | 2337.7 | 2699.3 |
| 15 | 154.2 | 157.1 | 267.4 | 272.3 | 308.7 | 314.4 | 308.5 | 314.1 | 356.2 | 362.7 | 356.0 | 362.6 | 617.0 | 628.3 | 712.4 | 725.5 | 244.4 | 423.6 | 489.2 | 488.8 | 564.4 | 564.2 | 651.4 | 977.6 | 1128.8 | 389.6 | 675.3 | 779.8 | 779.2 | 899.8 | 899.4 | 1558.4 | 1799.5 |
| 16 | 144.6 | 147.3 | 250.6 | 255.2 | 289.4 | 294.7 | 289.2 | 294.5 | 333.9 | 340.1 | 333.8 | 339.9 | 578.4 | 589.0 | 667.9 | 680.1 | 229.1 | 397.1 | 458.6 | 458.2 | 529.1 | 528.9 | 610.7 | 916.5 | 1058.3 | 365.3 | 633.1 | 731.1 | 730.5 | 843.5 | 843.1 | 1461.0 | 1687.1 |
| 17 | 136.1 | 138.6 | 235.9 | 240.2 | 272.4 | 277.4 | 272.2 | 277.2 | 314.3 | 320.1 | 314.2 | 319.9 | 544.4 | 554.4 | 628.6 | 640.1 | 215.6 | 373.8 | 431.6 | 431.3 | 498.0 | 497.8 | 574.8 | 862.6 | 996.0 | 343.8 | 595.9 | 688.1 | 687.5 | 793.9 | 793.5 | 1375.1 | 1587.8 |
| 18 | 128.5 | 130.9 | 222.8 | 226.9 | 257.3 | 262.0 | 257.1 | 261.8 | 296.8 | 302.3 | 296.7 | 302.1 | 514.1 | 523.6 | 593.7 | 604.6 | 203.7 | 353.0 | 407.6 | 407.3 | 470.3 | 470.1 | 542.9 | 814.7 | 940.7 | 324.7 | 562.8 | 649.8 | 649.4 | 749.8 | 749.5 | 1298.7 | 1499.6 |
| 19 | 121.8 | 124.0 | 211.1 | 214.9 | 243.7 | 248.2 | 243.5 | 248.0 | 281.2 | 286.4 | 281.1 | 286.2 | 487.1 | 496.0 | 562.4 | 572.7 | 192.9 | 334.4 | 386.2 | 385.9 | 445.6 | 445.4 | 514.3 | 771.8 | 891.2 | 307.6 | 533.2 | 615.6 | 615.2 | 710.3 | 710.0 | 1230.3 | 1420.7 |
| 20 | 115.7 | 117.8 | 200.5 | 204.2 | 231.5 | 235.8 | 231.4 | 235.6 | 267.2 | 272.0 | 267.0 | 271.9 | 462.7 | 471.2 | 534.3 | 544.1 | 183.3 | 317.7 | 366.9 | 366.6 | 423.3 | 423.1 | 488.6 | 733.2 | 846.6 | 292.2 | 506.5 | 584.8 | 584.4 | 674.8 | 674.5 | 1168.8 | 1349.6 |
| 25 | 92.5 | 94.2 | 160.4 | 163.4 | 185.2 | 188.6 | 185.1 | 188.5 | 213.7 | 217.6 | 213.6 | 217.5 | 370.2 | 377.0 | 427.4 | 435.3 | 146.6 | 254.2 | 293.5 | 293.3 | 338.6 | 338.5 | 390.9 | 586.6 | 677.3 | 233.8 | 405.2 | 467.9 | 467.5 | 539.9 | 539.6 | 935.1 | 1079.7 |
| 30 | 77.1 | 78.5 | 133.7 | 136.1 | 154.4 | 157.2 | 154.2 | 157.1 | 178.1 | 181.4 | 178.0 | 181.3 | 308.5 | 314.1 | 356.2 | 362.7 | 122.2 | 211.8 | 244.6 | 244.4 | 282.2 | 282.1 | 325.7 | 488.8 | 564.4 | 194.8 | 337.7 | 389.9 | 389.6 | 449.9 | 449.7 | 779.2 | 899.8 |
| 35 | 66.1 | 67.3 | 114.6 | 116.7 | 132.3 | 134.7 | 132.2 | 134.6 | 152.7 | 155.5 | 152.6 | 155.4 | 264.4 | 269.3 | 305.3 | 310.9 | 104.7 | 181.6 | 209.6 | 209.5 | 241.9 | 241.8 | 279.2 | 419.0 | 483.8 | 167.0 | 289.4 | 334.2 | 334.0 | 385.6 | 385.4 | 667.9 | 771.2 |
| 40 | 57.8 | 58.9 | 100.3 | 102.1 | 115.8 | 117.9 | 115.7 | 117.8 | 133.6 | 136.0 | 133.5 | 136.0 | 231.4 | 235.6 | 267.2 | 272.0 | 91.6 | 158.9 | 183.4 | 183.3 | 211.7 | 211.6 | 244.3 | 366.6 | 423.3 | 146.1 | 253.2 | 292.4 | 292.2 | 337.4 | 337.3 | 584.4 | 674.8 |
| 45 | 51.4 | 52.4 | 89.1 | 90.8 | 102.9 | 104.8 | 102.8 | 104.7 | 118.7 | 120.9 | 118.7 | 120.9 | 205.7 | 209.4 | 237.5 | 241.8 | 81.5 | 141.2 | 163.1 | 162.9 | 188.1 | 188.1 | 217.1 | 325.9 | 376.3 | 129.9 | 225.1 | 259.9 | 259.7 | 299.9 | 299.8 | 519.5 | 599.8 |
| 50 | 46.3 | 47.1 | 80.2 | 81.7 | 92.6 | 94.3 | 92.5 | 94.2 | 106.9 | 108.8 | 106.8 | 108.8 | 185.1 | 188.5 | 213.7 | 217.6 | 73.3 | 127.1 | 146.7 | 146.6 | 169.3 | 169.2 | 195.4 | 293.3 | 338.6 | 116.9 | 202.6 | 233.9 | 233.8 | 269.9 | 269.8 | 467.5 | 539.9 |
| 60 | 38.6 | 39.3 | 66.8 | 68.1 | 77.2 | 78.6 | 77.1 | 78.5 | 89.1 | 90.7 | 89.0 | 90.6 | 154.2 | 157.1 | 178.1 | 181.4 | 61.1 | 105.9 | 122.3 | 122.2 | 141.1 | 141.0 | 162.9 | 244.4 | 282.2 | 97.4 | 168.8 | 194.9 | 194.8 | 224.9 | 224.8 | 389.6 | 449.9 |
| 70 | | | | | | | | | | | | | | | | | 52.4 | 90.8 | 104.8 | 104.7 | 120.9 | 120.9 | 139.6 | 209.5 | 241.9 | 83.5 | 144.7 | 167.1 | 167.0 | 192.8 | 192.7 | 334.0 | 385.6 |
| 80 | | | | | | | | | | | | | | | | | 45.8 | 79.4 | 91.7 | 91.6 | 105.8 | 105.8 | 122.1 | 183.3 | 211.7 | 73.1 | 126.6 | 146.2 | 146.1 | 168.7 | 168.6 | 292.2 | 337.4 |
| 90 | | | | | | | | | | | | | | | | | | | | | | | | | | 64.9 | 112.6 | 130.0 | 129.9 | 150.0 | 149.9 | 259.7 | 299.9 |
| 100 | | | | | | | | | | | | | | | | | | | | | | | | | | 58.4 | 101.3 | 117.0 | 116.9 | 135.0 | 134.9 | 233.8 | 269.9 |

BRANCH CIRCUIT VOLTAGE DROP CALCULATION

$$VD = \frac{2 \times L \times R \times I}{1000}$$

VD = VOLTAGE DROP
V = VOLTAGE
L = ONE WAY LENGTH OF CONDUCTOR
R = CONDUCTOR RESISTANCE IN OHMS PER THOUSAND FEET
I = LOAD CURRENT (AMPERES)

NOTICE TO CONTRACTOR:
THIS BRANCH CIRCUIT VOLTAGE DROP SCHEDULE IS TO BE USED WHEN SIZING CONDUCTORS FOR ACTUAL INSTALLED FIELD CONDITION CIRCUIT LENGTHS. SPECIFIC CONDUCTOR SIZING ON PLANS SHALL BE THE MINIMUM SIZE CONDUCTOR USED FOR INSTALLATION UNLESS INSTALLED CONDITION EXCEEDS CIRCUIT LENGTH ALLOWED ON TABLE AND SHALL BE INCREASED TO THE NEXT SIZE CONDUCTOR SCHEDULED. ALL CONDUCTORS AS DESIGNED OR AS REQUIRED PER INSTALLED CONDITION IS PART OF THE CONTRACTORS BASE BID.


ANDERSON BRULÉ ARCHITECTS
325 South First Street, 4th Floor
San Jose, California 95113
408.298.1885 | www.aba-arch.com


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PROJECT TITLE:

# Altadena Main Library

600 E MARIPOSA STREET
ALTADENA, CA 91001

| | |
|---|---|
| PROJECT NO. | 2111010 |
| DATE: | Issue Date |

SHEET TITLE:

# BRANCH CIRCUIT VOLTAGE DROP CALCULATIONS

SCALE: N.T.S.


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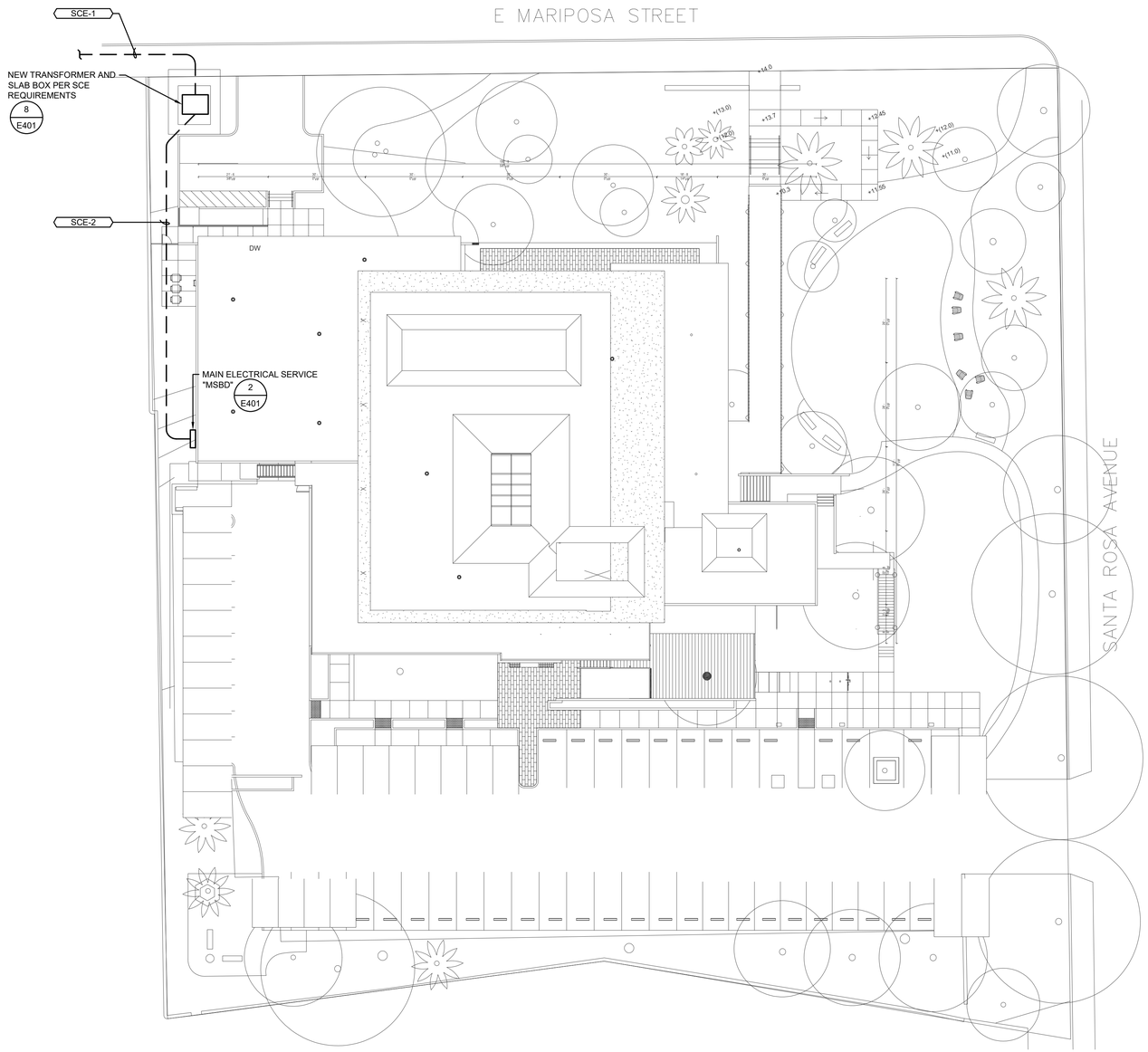


1 ELECTRICAL SITE PLAN
1" = 20'-0"

## SHEET NOTES

1 -


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PROJECT TITLE:

# Altadena Main Library

600 E MARIPOSA STREET
ALTADENA, CA 91001

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| PROJECT NO. | 2111010 |
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## ELECTRICAL SITE PLAN

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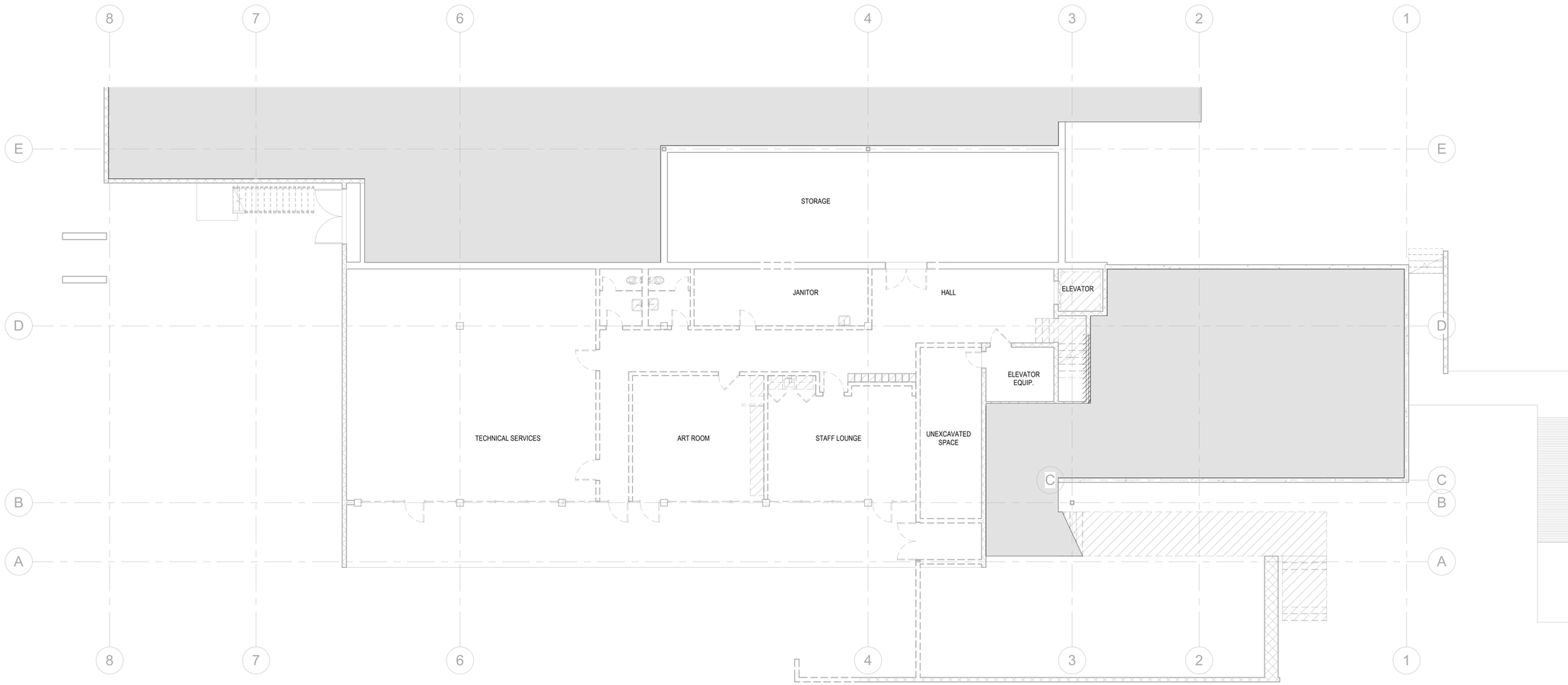


1 LOWER LEVEL ELECTRICAL DEMOLITION PLAN
1/8" = 1'-0"

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## LOWER LEVEL ELECTRICAL DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

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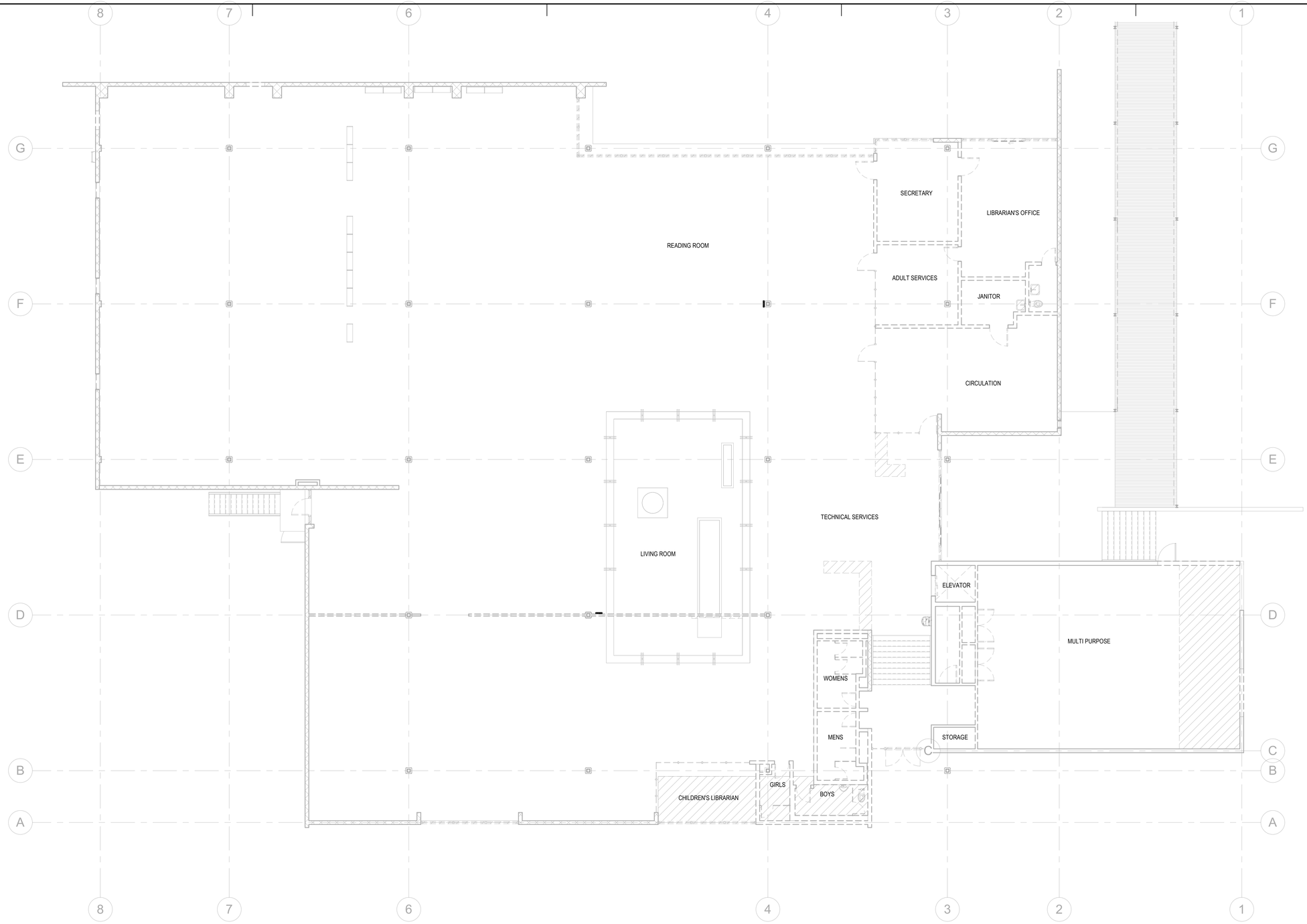


1 MAIN LEVEL ELECTRICAL DEMOLITION PLAN
1/8" = 1'-0"

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PROJECT TITLE:

# Altadena Main Library

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## MAIN LEVEL ELECTRICAL DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

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1 LOWER LEVEL LIGHTING PLAN
1/8" = 1'-0"

## SHEET NOTES

1. MOUNT LIGHT FIXTURES UNDER CABINETS. COORDINATE LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
2. LIGHT FIXTURE SHALL BE MOUNTED ON TOP OF GYP SHELF. REFER TO DETAIL #12/A807 FOR LOCATION.


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SHEET TITLE:

## LOWER LEVEL LIGHTING PLAN

SCALE: 1/8" = 1'-0"

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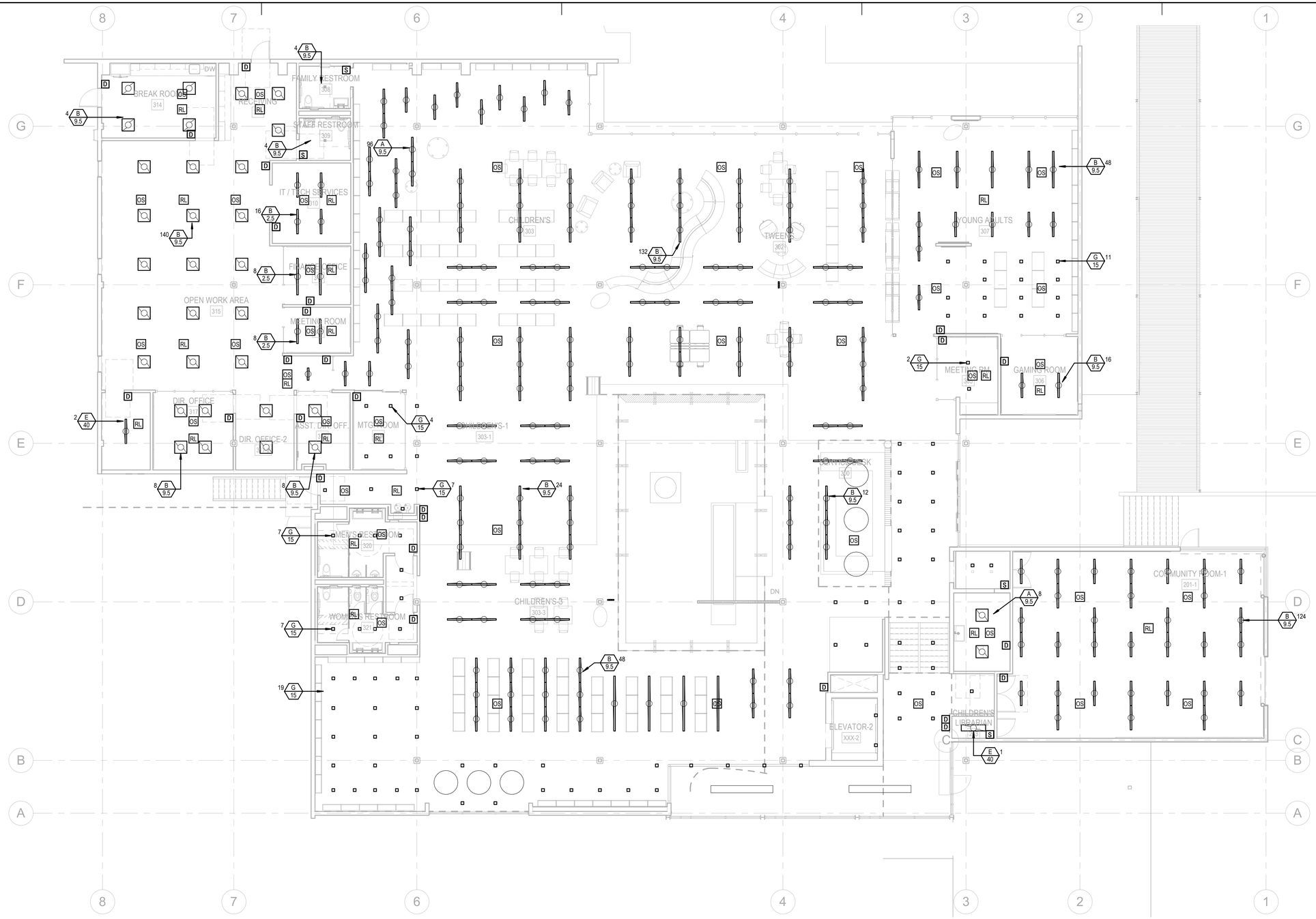


1 MAIN LEVEL LIGHTING PLAN
1/8" = 1'-0"

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## MAIN LEVEL LIGHTING PLAN

SCALE: 1/8" = 1'-0"

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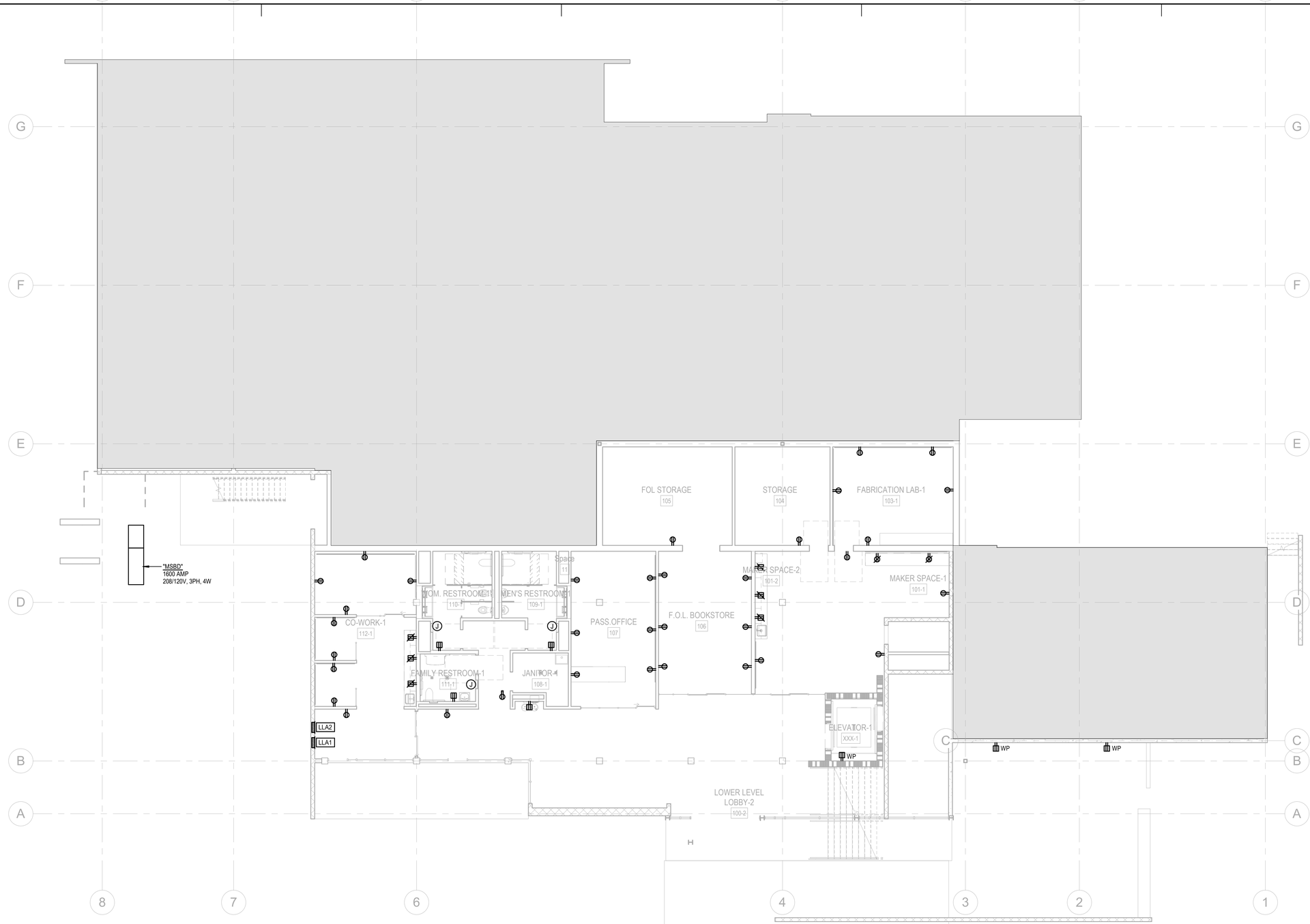


1 LOWER LEVEL POWER PLAN
1/8" = 1'-0"

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## LOWER LEVEL POWER PLAN

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SCALE: 1/8" = 1'-0"


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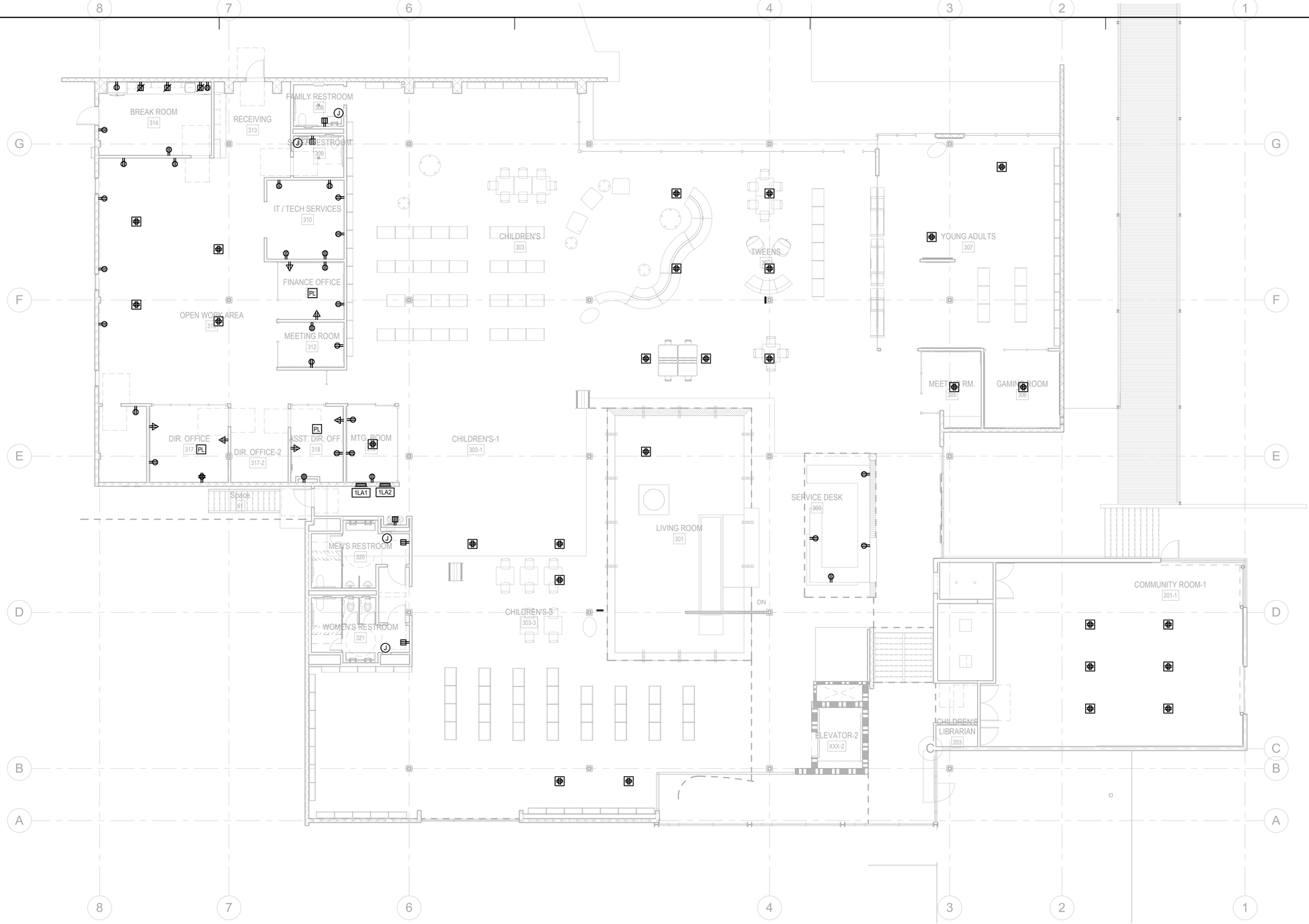


1 MAIN LEVEL POWER PLAN
1/8" = 1'-0"

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## MAIN LEVEL POWER PLAN

SCALE: 1/8" = 1'-0"

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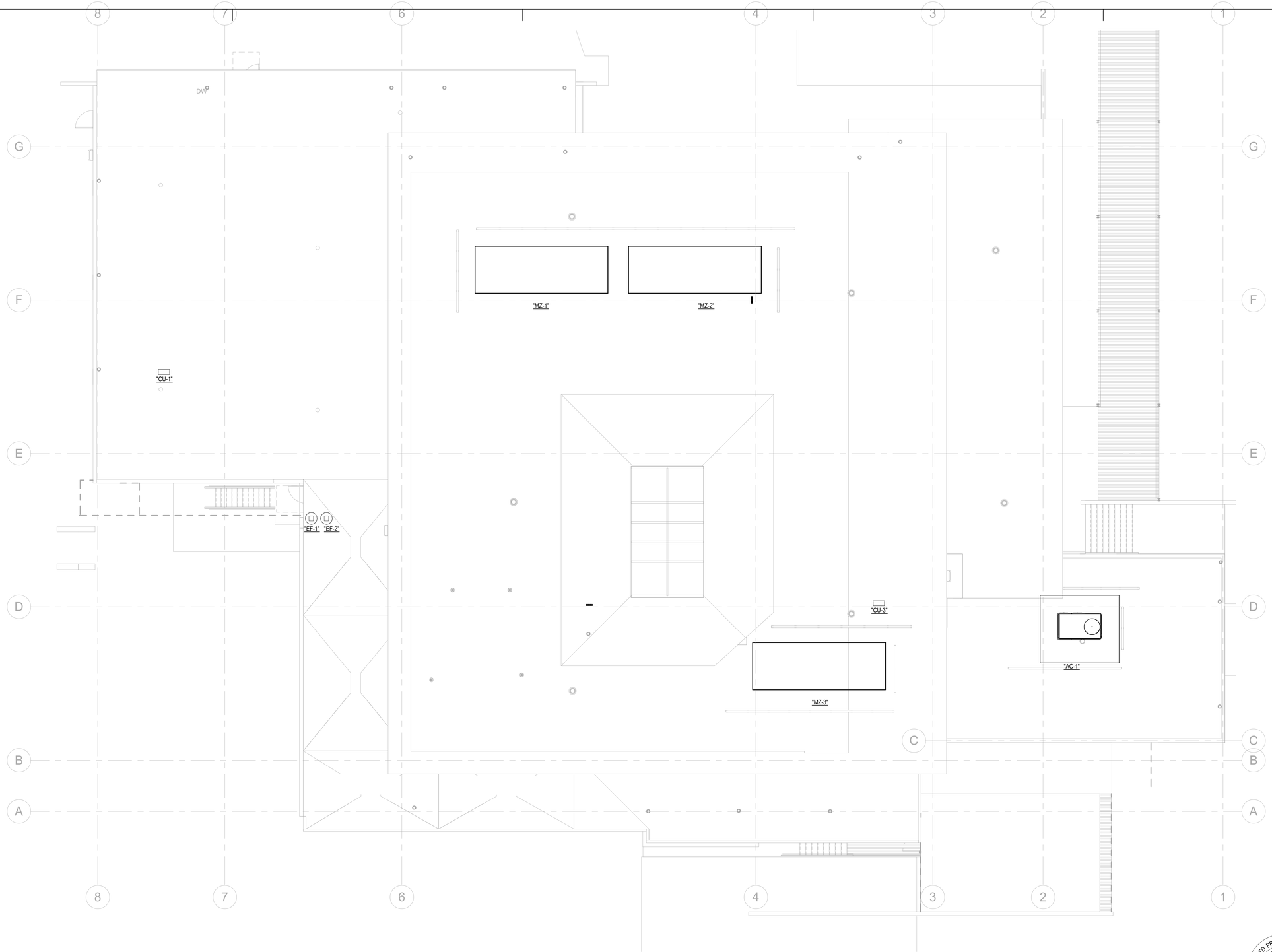


1 ELECTRICAL ROOF PLAN
1/8" = 1'-0"

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## ELECTRICAL ROOF PLAN

SCALE: 1/8" = 1'-0"

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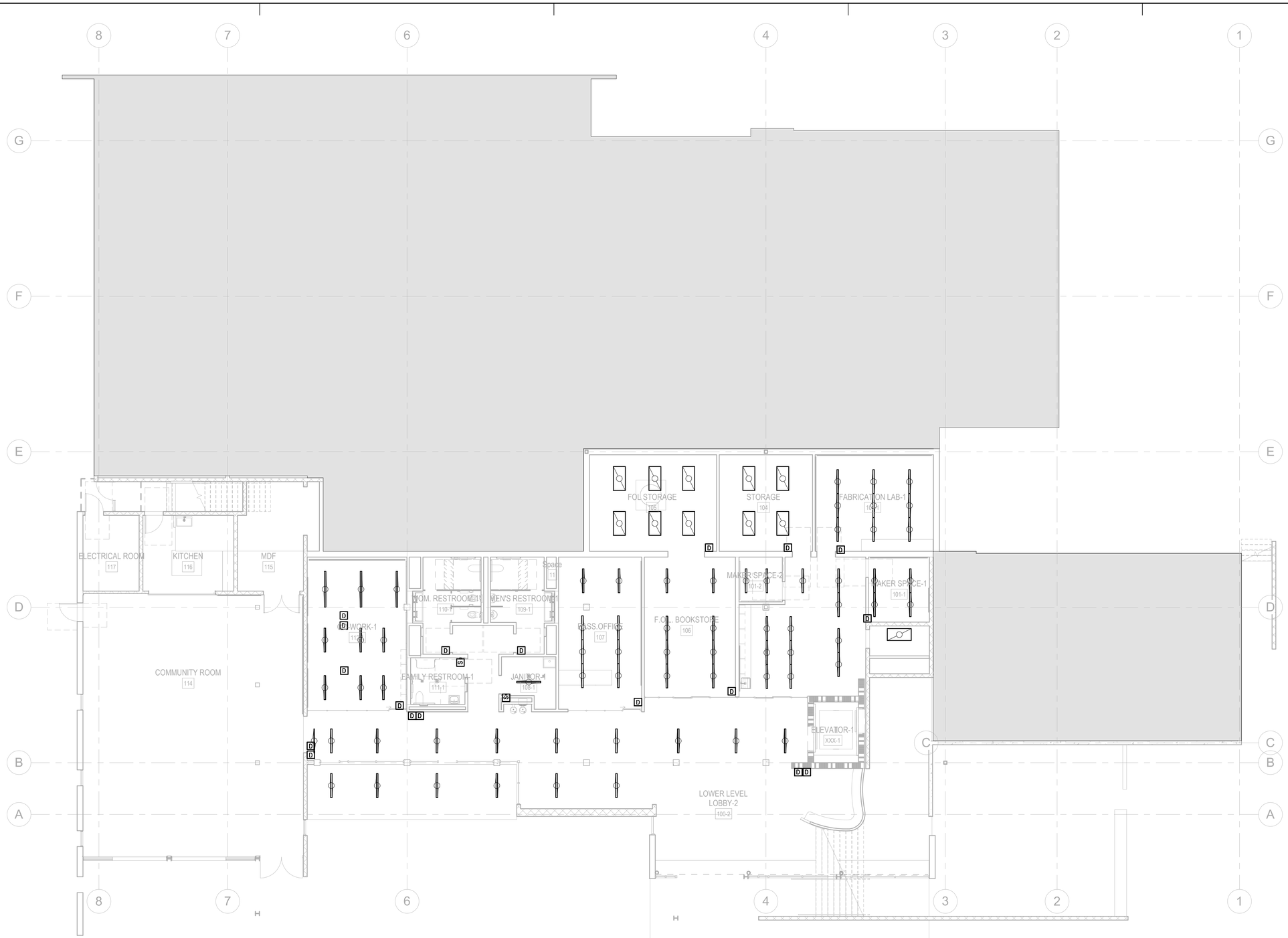


1 LOWER LEVEL LIGHTING PLAN - ADD ALTS
1/8" = 1'-0"

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## LOWER LEVEL LIGHTING PLAN - ADD ALTS

SCALE: 1/8" = 1'-0"


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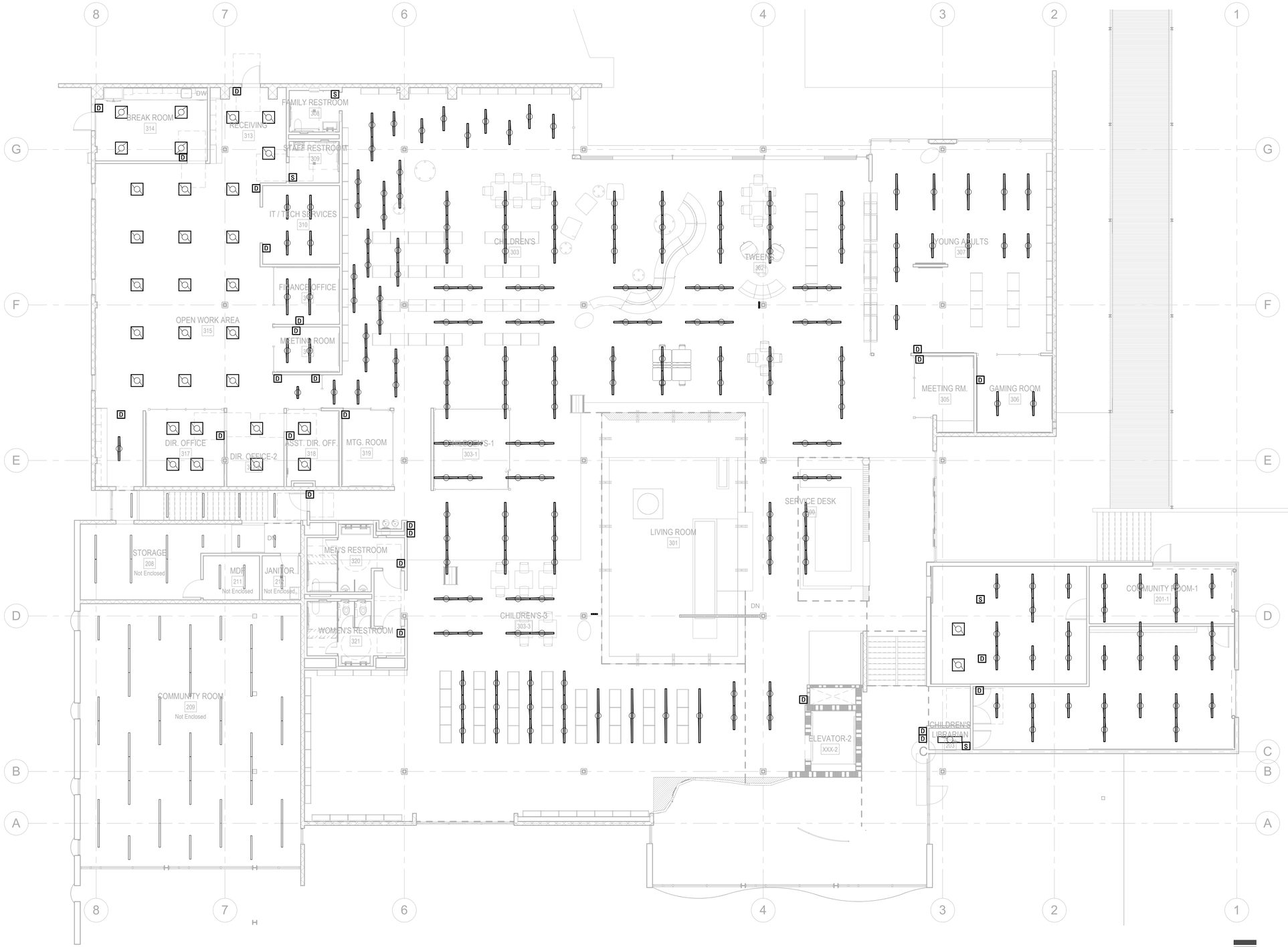


1 MAIN LEVEL LIGHTING PLAN - ADD ALTS
1/8" = 1'-0"

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## MAIN LEVEL LIGHTING PLAN - ADD ALTS

SCALE: 1/8" = 1'-0"

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1 LOWER LEVEL POWER PLAN - ADD ALTS
1/8" = 1'-0"

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SHEET TITLE:

## LOWER LEVEL POWER PLAN - ADD ALTS

SCALE: 1/8" = 1'-0"

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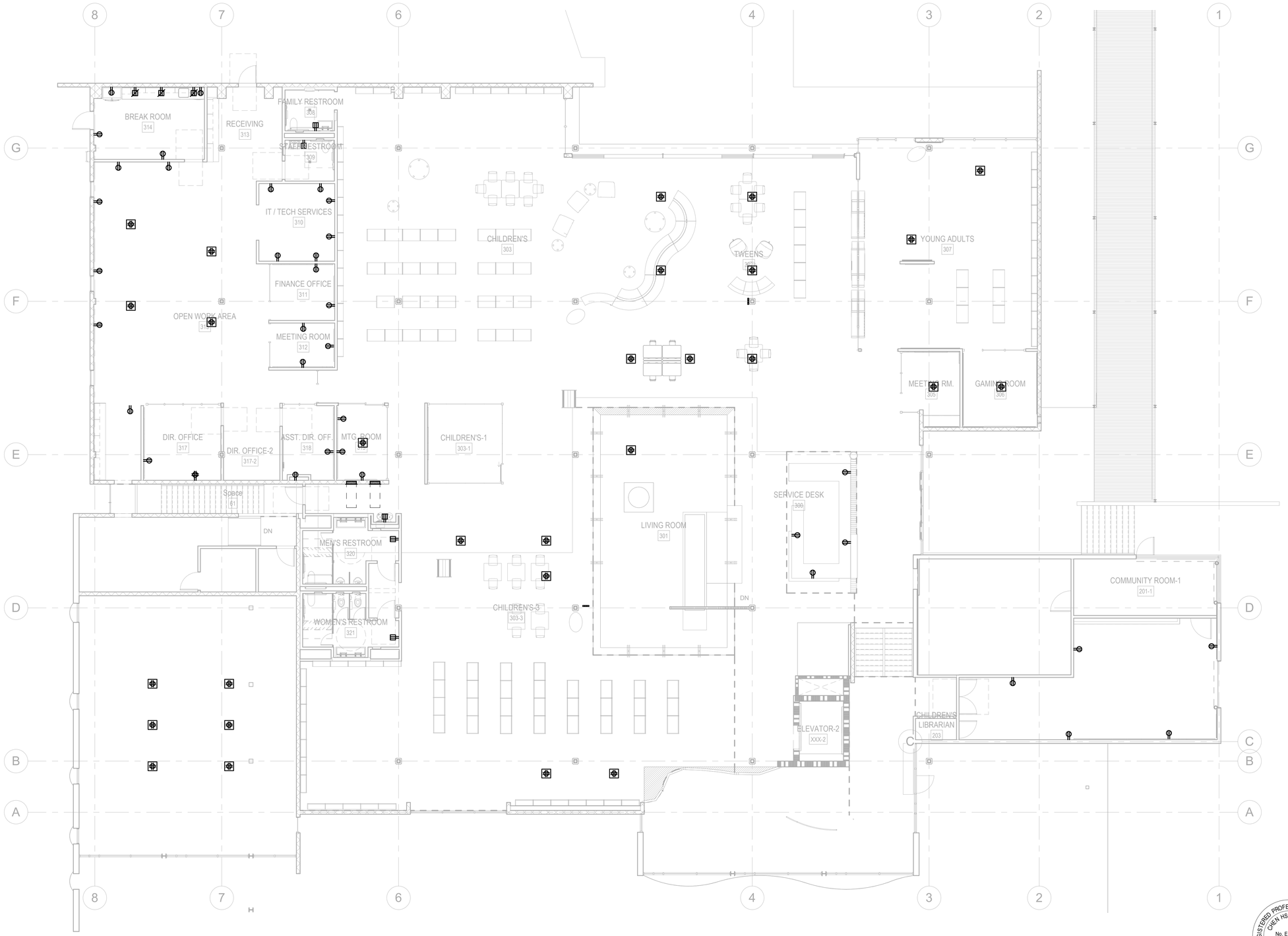


1 MAIN LEVEL POWER PLAN - ADD ALTS
1/8" = 1'-0"

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## MAIN LEVEL POWER PLAN - ADD ALTS

SCALE: 1/8" = 1'-0"


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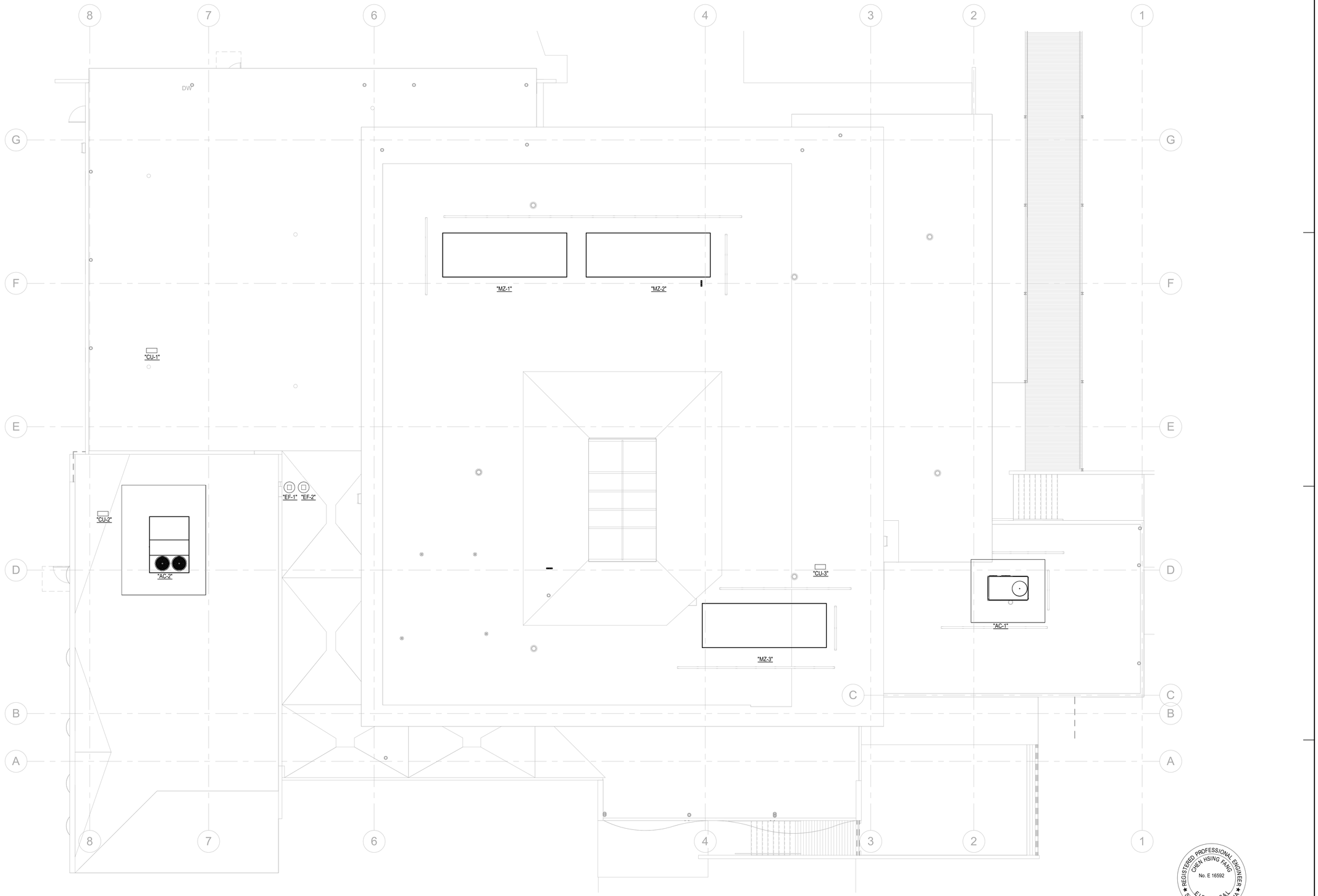


1 ELECTRICAL ROOF PLAN - ADD ALTS
1/8" = 1'-0"

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## ELECTRICAL ROOF PLAN - ADD ALTS

SCALE: 1/8" = 1'-0"

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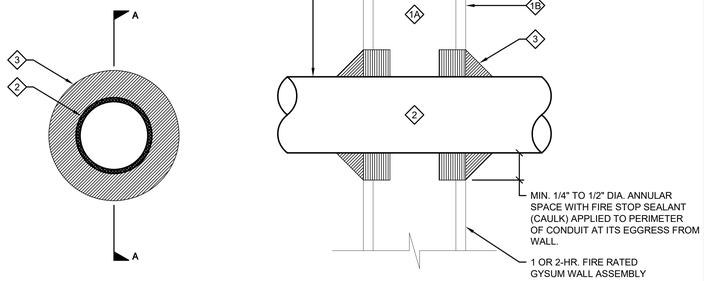
## DETAIL NOTES:

1. WALL CONSTRUCTION:
   A. STEEL STUDS PER ARCHITECTURAL/STRUCTURAL.
   B. 5/8" TYPE x GYPSUM BOARD PER ARCHITECTURAL.
2. CONDUIT SIZE PER DRAWINGS.
3. FIRE STOP SYSTEM - ONE HOUR CAULK. APPLY TO INTERFACE WITH WALL SURFACE.

U.L. SYSTEM NO. W-L-1001

NOTE: MAX. DIA. OF OPENING IS 13 1/2" ANNULAR SPACE OF MIN. 1/4" DIA. BEAD IS REQUIRED.

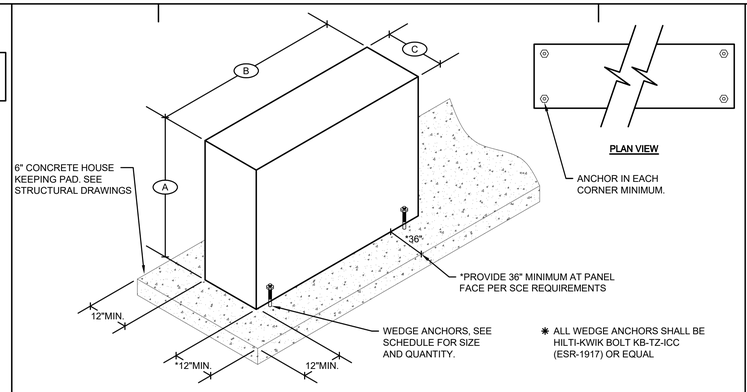



FRONT VIEW

SECTION A-A

# CONDUIT PENETRATION AT 1-HR FIRE RATED WALL

NOT TO SCALE | 1





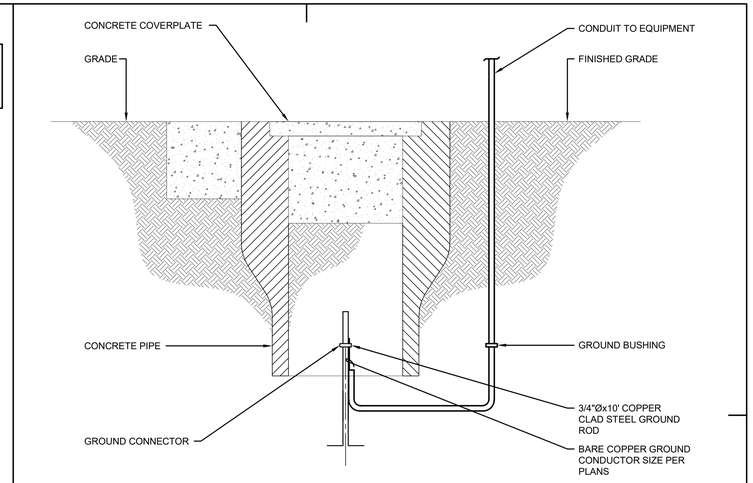


✱ ALL WEDGE ANCHORS SHALL BE HILTI-KWIK BOLT KB-TZ-ICC (ESR-1917) OR EQUAL

| SYMBOL | A | B | C | WEIGHT | MIN. NO ANCHORS | SIZE OF ANCHORS | MINIMUM EMBEDMENT |
|---|---|---|---|---|---|---|---|
| "MSBD" (SECTION 1) | 93" | 45" | 36" | 800 | 4 | 1/2Ø | 3 1/4" |
| "MSBD" (SECTIONS 2 AND 3) | 93" | 36" | 36" | 822 | 4 | 1/2Ø | 3 1/4" |

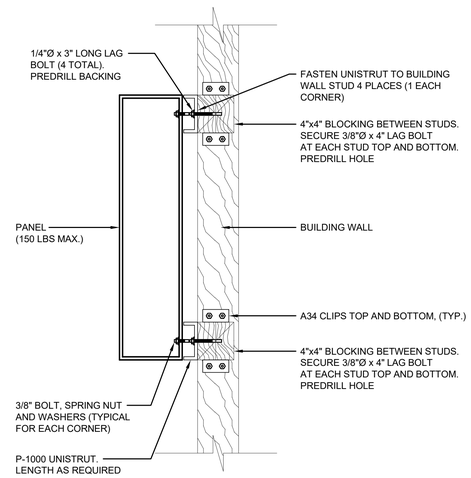
# SWITCHBOARD MOUNTING DETAIL

NOT TO SCALE | 2



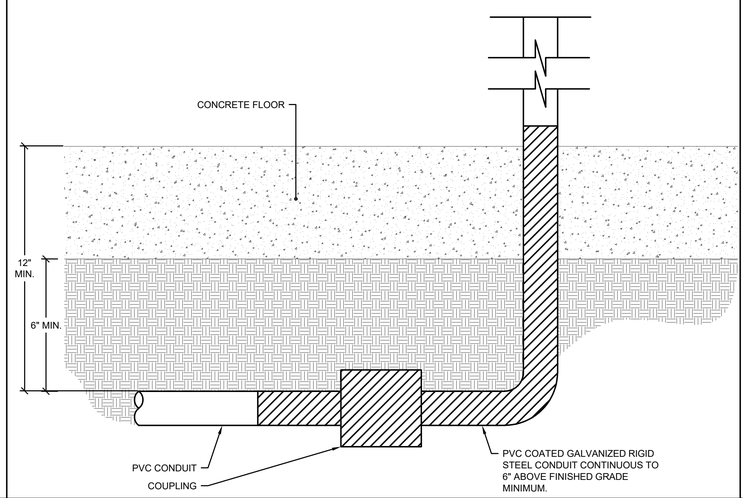

# GROUND ROD DETAIL

NOT TO SCALE | 3



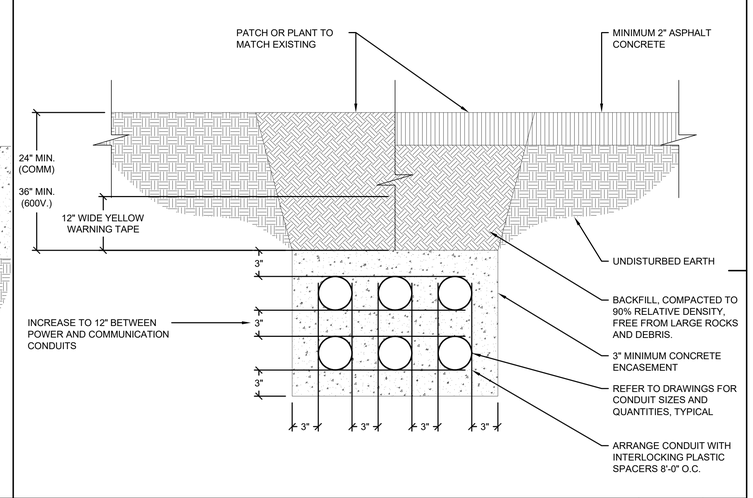

# SURFACE MOUNTED PANEL/CABINET AT WOOD FRAMING

NOT TO SCALE | 4



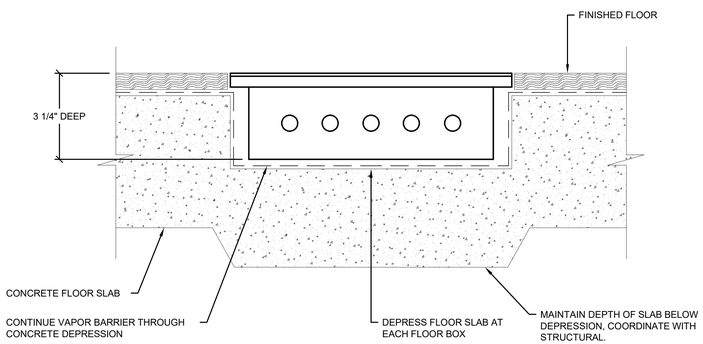

# CONDUIT INSTALLED BELOW GRADE TO ABOVE GRADE DETAIL

NOT TO SCALE | 5




# TYPICAL MULTI-CONDUIT PLACEMENT DETAIL

NOT TO SCALE | 6

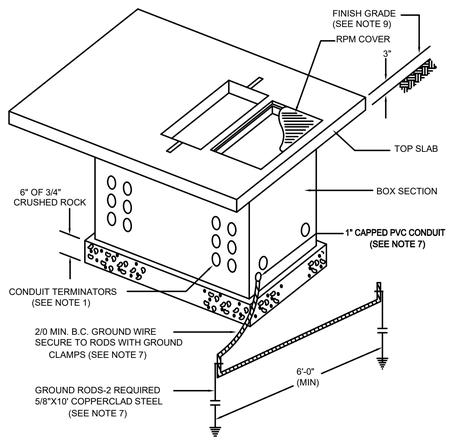



# FLOOR BOX MOUNTING DETAIL

NOT TO SCALE | 7

1. CONDUIT TERMINATORS TO BE LOCATED AS SHOWN ON SS 535.2 TO 535.5. STANDARD CONDUIT ENTERANCE SHALL BE A FLATWALL DESIGN. SLIGHT VARIATIONS BY MANUFACTURERS MAY BE ALLOWED WITH COMPANY APPROVAL.
2. WHEN CABLE TRENCH OPENINGS ARE REQUIRED IN A SLAB BOX, THEY CAN BE SPECIAL ORDERED FROM THE CONCRETE PRECASTER.
3. FOR SLAB BOX STRUCTURAL DESIGN CRITERIA, SEE SS 535.2, 535.3, 535.4 AND 535.5.
4. FOR LIST OF MATERIAL REQUIREMENTS AND NOTES, SEE SS 535.6.
5. CONSULT MANUFACTURERS INSTALLATION GUIDES FOR EXCAVATION DIMENSIONS.
6. AN EIGHT-FOOT MINIMUM CLEARANCE IS REQUIRED DIRECTLY IN FRONT OF TRANSFORMER FOR OPERATION.
7. GROUND RODS, CLAMPS, AND WIRE WILL BE FURNISHED BY CONTRACTOR. SEE SS 703 FOR APPROVED GROUNDING MATERIALS. GROUND WIRE TO BE A MINIMUM OF 2/0 BARE COPPER. GROUND WIRE TO BE PLACED THROUGH CAPPED ONE-INCH PVC CONDUIT AT EITHER END OF SLAB BOX. A MINIMUM THREE-FOOT LENGTH OF GROUND WIRE SHALL BE PLACED IN SLAB BOX. (SHALL BE 25 OHMS MINIMUM OR LESS PER SCE REQUIREMENTS.)
8. MASTIC SEALANT IS REQUIRED AT JOINTS.
9. TOP SURFACE OF SLAB BOX SHALL BE SET THREE INCHES ABOVE FINISHED GRADE.
10. SEE SS 500 FOR APPROVED MANUFACTURERS.

* ALL REFERENCES TO "SS" INDICATES S.C.E.




# 10'x12' SLAB BOX DETAIL

NOT TO SCALE | 8


DCGA ENGINEERS
Consulting Mechanical and Electrical Engineers
4750 E. Ontario Mills Pkwy
Ontario, Ca. 91764
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REGISTERED PROFESSIONAL ENGINEER
CHEN HSING TANG
No. E 16592
ELECTRICAL
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ANDERSON BRULÉ ARCHITECTS
325 South First Street, 4th Floor
San Jose, California 95113
408.298.1885 | www.aba-arch.com


CONSULTANTS LOGO:

STAMP:

NOT FOR CONSTRUCTION

| NO. | DATE | REVISIONS |
|---|---|---|
| | | |

PROJECT TITLE:

## Altadena Main Library

600 E MARIPOSA STREET
ALTADENA, CA 91001

| | |
|---|---|
| PROJECT NO. | 2111010 |
| DATE: | Issue Date |

SHEET TITLE:

## ELECTRICAL DETAILS

SCALE: N.T.S.


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E401

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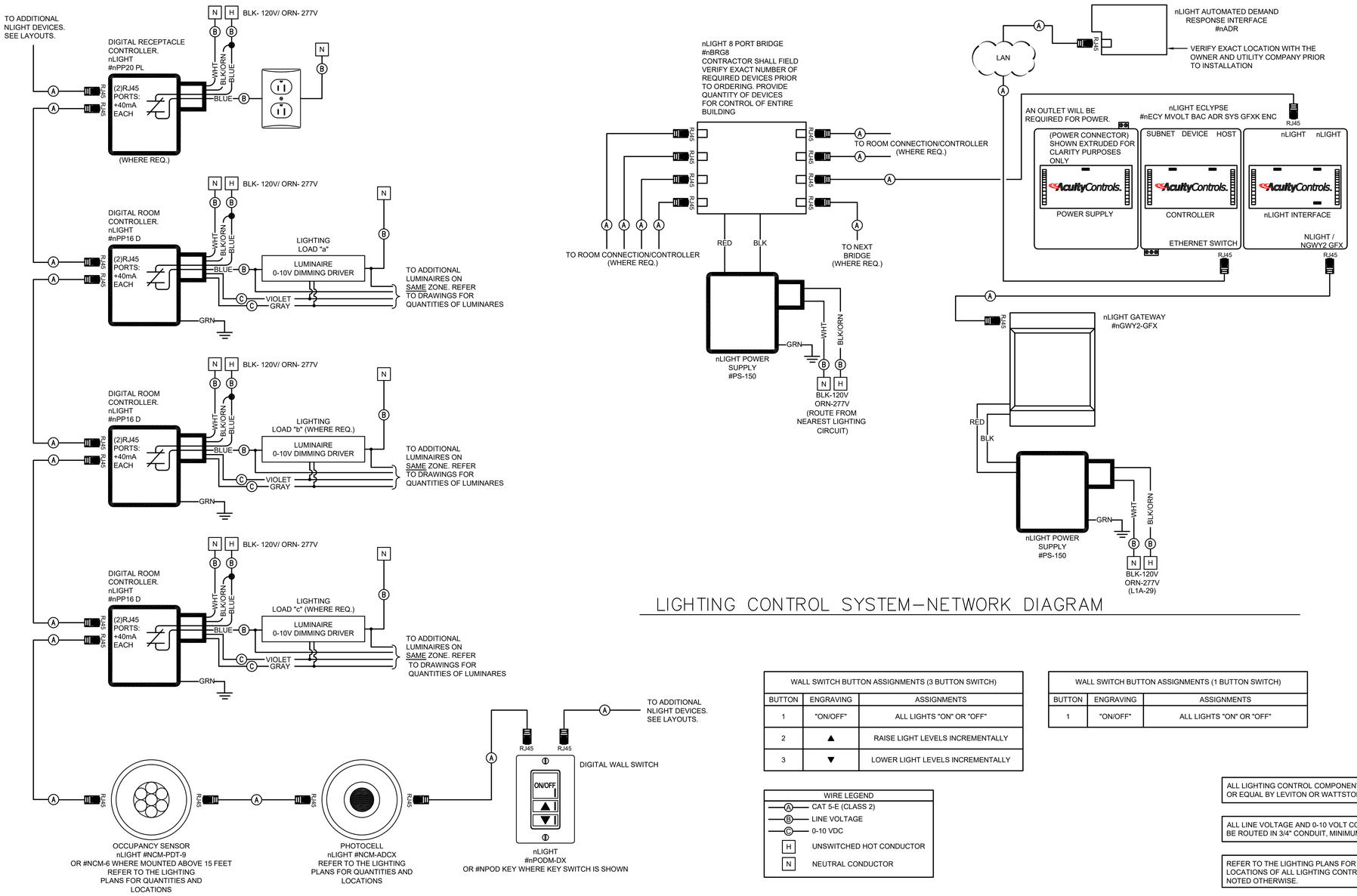


# LIGHTING CONTROL SYSTEM—NETWORK DIAGRAM

| WALL SWITCH BUTTON ASSIGNMENTS (3 BUTTON SWITCH) | | |
|---|---|---|
| BUTTON | ENGRAVING | ASSIGNMENTS |
| 1 | "ON/OFF" | ALL LIGHTS "ON" OR "OFF" |
| 2 | ▲ | RAISE LIGHT LEVELS INCREMENTALLY |
| 3 | ▼ | LOWER LIGHT LEVELS INCREMENTALLY |

| WALL SWITCH BUTTON ASSIGNMENTS (1 BUTTON SWITCH) | | |
|---|---|---|
| BUTTON | ENGRAVING | ASSIGNMENTS |
| 1 | "ON/OFF" | ALL LIGHTS "ON" OR "OFF" |

| WIRE LEGEND | |
|---|---|
| A | CAT 5-E (CLASS 2) |
| B | LINE VOLTAGE |
| C | 0-10 VDC |
| H | UNSWITCHED HOT CONDUCTOR |
| N | NEUTRAL CONDUCTOR |

ALL LIGHTING CONTROL COMPONENTS SHALL BE "nLIGHT" OR EQUAL BY LEVITON OR WATTSTOPPER

ALL LINE VOLTAGE AND 0-10 VOLT CONDUCTORS SHALL BE ROUTED IN 3/4" CONDUIT, MINIMUM

REFER TO THE LIGHTING PLANS FOR QUANTITES AND LOCATIONS OF ALL LIGHTING CONTROL DEVICES UNLESS NOTED OTHERWISE.

## LIGHTING CONTROL WIRING DIAGRAMS


ANDERSON BRULÉ ARCHITECTS
325 South First Street, 4th Floor
San Jose, California 95113
408.298.1885 | www.aba-arch.com


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| NO. | DATE | REVISIONS |
|---|---|---|
| | | |

PROJECT TITLE:

# Altadena Main Library

600 E MARIPOSA STREET
ALTADENA, CA 91001

| | |
|---|---|
| PROJECT NO. | 2111010 |
| DATE: | Issue Date |

SHEET TITLE:

ELECTRICAL DETAILS

SCALE: N.T.S.


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REGISTERED PROFESSIONAL ENGINEER — CHEN HSING TANG — No. E 16592 — ELECTRICAL — STATE OF CALIFORNIA


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Ph.909.987.0017
Fax 909.980.7023


| SCALE | 1 |
|---|---|
| N.T.S. | |

E402

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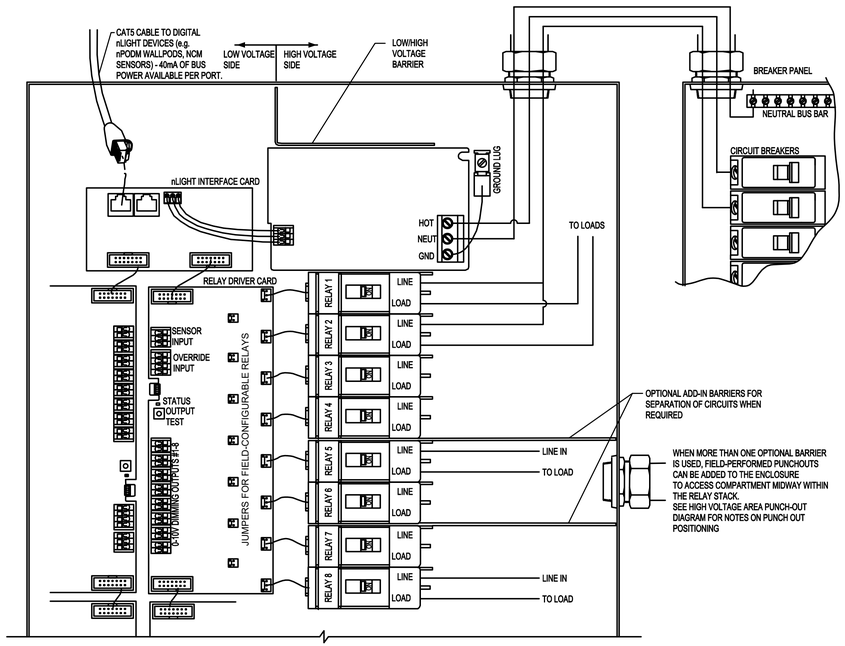
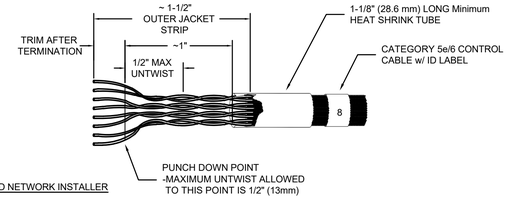



LIGHTING CONTROL PANEL "LCP-1"
ARP LIGHTING RELAY PANEL
MODEL #ARP INTENC16 16SPR MVOLT 2VB HLK SM

ALL EXTERIOR LIGHTING ROUTED VIA "LCP-1" SHALL BE CONTROLLED BY THE EMS SYSTEM. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR FOR ALL INTEGRATION REQUIREMENTS FOR A COMPLETE SYSTEM.

TIA / EIA-568-B CABLING STANDARD TERMINATION

| Function | PAIR # | PIN OUT (T568B) | Wire Color |
|---|---|---|---|
| (T1) | 1 | 5 | WHITE w/ BLUE |
| (R1) | | 4 | BLUE |
| Tx + (T2) | 2 | 1 | WHITE w/ ORANGE |
| Tx - (R2) | | 2 | ORANGE |
| Rx + (T3) | 3 | 3 | WHITE w/ GREEN |
| Rx - (R3) | | 6 | GREEN |
| (T4) | 4 | 7 | WHITE w/ BROWN |
| (R4) | | 8 | BROWN |

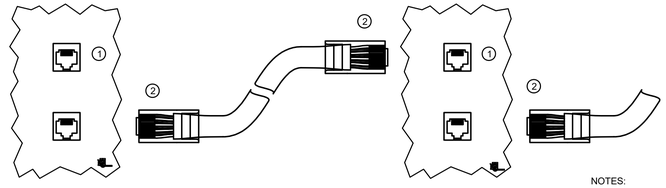



TERMINATION & TESTING OF CAT5 CABLES MUST BE DONE BY A QUALIFIED NETWORK INSTALLER

CABLE TERMINATION REQUIREMENTS :

1. STRIP OFF OUTER JACKET - APPROXIMATELY 1-1/2" (37.6 MM)
2. FIT A PIECE OF 1-1/8" (28.6 MM) LONG HEAT SHRINK TUBE OVER THE CABLE EXTENDING OUT 1/4" (8.25 MM) FROM OUTER JACKET
3. TERMINATE APPROXIMATELY 1/2" (12.2 MM) FROM END OF CONDUCTORS ON TYPE 110 PUNCH DOWN BLOCK OR CONNECTOR PER SCHEDULE (T568B) - MAXIMUM UNTWIST OF CONDUCTORS TO TERMINATIONS IS 1/2" (12.2 MM) - TRIM EXCESS LEADS
4. SHRINK TUBING AND ADD APPROPRIATE ID LABEL TO THE CABLE AT THE END OF THE HEAT SHRINK TUBE

SEE SYSTEM SPECIFIC NOTES ON SHEET LC0.1 FOR MAXIMUM CABLE LENGTHS.




DIGITAL NETWORK CONNECTORS

DIGITAL NETWORK CONNECTORS

(1) RJ45 FEMALE CONNECTOR

(2) RJ45 MALE CONNECTORS. ALL CABLES SUPPLIED BY CONTRACTOR.

NOTES:

DAISY-CHAIN CAT5 PATCH CABLE WITH RJ45 CONNECTORS FROM DIGITAL DEVICE TO DIGITAL DEVICE.

REFER TO MANUFACTURERS INSTRUCTIONS FOR LONG DISTANCE RUNS BETWEEN DIGITAL DEVICES.

CRIMP AND TEST EACH CABLE WITH A LAN CIRCUIT TESTER PRIOR TO INSTALLATION.

## CAT5e/6 CABLE TERMINATION

N.T.S.

ALL LIGHTING CONTROL COMPONENTS SHALL BE "nLIGHT" OR EQUAL BY LEVITON OR WATTSTOPPER

ALL LINE VOLTAGE AND 0-10 VOLT CONDUCTORS SHALL BE ROUTED IN 3/4" CONDUIT, MINIMUM

REFER TO THE LIGHTING PLANS FOR QUANTITES AND LOCATIONS OF ALL LIGHTING CONTROL DEVICES UNLESS NOTED OTHERWISE.

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Ph.909.987.0017
Fax 909.980.7023

LIGHTING CONTROL WIRING DIAGRAMS

SCALE
N.T.S.

1

ANDERSON BRULÉ ARCHITECTS
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San Jose, California 95113
408.298.1885 | www.aba-arch.com

CONSULTANTS LOGO:

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| NO. | DATE | REVISIONS |
|---|---|---|
| | | |

PROJECT TITLE:

Altadena Main Library

600 E MARIPOSA STREET
ALTADENA, CA 91001

PROJECT NO. 2111010

DATE: Issue Date

SHEET TITLE:

ELECTRICAL DETAILS

SCALE: N.T.S.

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E403

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| PANEL: | "LLA1" | BRANCH: | NORMAL |
|---|---|---|---|
| LOCATION: | | VOLTAGE: | 208/120V CKT CODE: 1=(CONTINUOUS LOAD) |
| FED FROM: | MSBD | PHASE & WIRE: | 3PH,4W 2=(NON-CONTINUOUS) |
| MOUNTING: | RECESSED NEMA-1 | MIN. BUS: | 225 AMPS 3=(RECEPTACLES) |
| AIC RATING: | 42000 | MCB: | 225 AMPS 4=(KITCHEN) NO. OF EQUIP= |

| CIRCUIT | | CKT BKR | | LOAD TYPE & DESIGNATION | | | | LOAD | | PHASES | | LOAD | LOAD TYPE & DESIGNATION | | | | CKT BKR | | CIRCUIT | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | CODE | TRIP | POLE | DESCRIPTION | MISC | REC | LTG | VA | A | B | C | VA | LTG | REC | MISC | DESCRIPTION | POLE | TRIP | CODE | NO |
| 1 | | 20 | 1 | | | | | | 0 | ---- | ---- | | | | | | 1 | 20 | | 2 |
| 3 | | 20 | 1 | | | | | | ---- | 0 | ---- | | | | | | 1 | 20 | | 4 |
| 5 | | 20 | 1 | | | | | | ---- | ---- | 0 | | | | | | 1 | 20 | | 6 |
| 7 | | 20 | 1 | | | | | | 0 | ---- | ---- | | | | | | 1 | 20 | | 8 |
| 9 | | 20 | 1 | | | | | | ---- | 0 | ---- | | | | | | 1 | 20 | | 10 |
| 11 | | 20 | 1 | | | | | | ---- | ---- | 0 | | | | | | 1 | 20 | | 12 |
| 13 | | 20 | 1 | | | | | | 0 | ---- | ---- | | | | | | 1 | 20 | | 14 |
| 15 | | 20 | 1 | | | | | | ---- | 0 | ---- | | | | | | 1 | 20 | | 16 |
| 17 | | 20 | 1 | | | | | | ---- | ---- | 0 | | | | | | 1 | 20 | | 18 |
| 19 | | 20 | 1 | | | | | | 0 | ---- | ---- | | | | | | 1 | 20 | | 20 |
| 21 | | 20 | 1 | | | | | | ---- | 0 | ---- | | | | | | 1 | 20 | | 22 |
| 23 | | 20 | 1 | | | | | | ---- | ---- | 0 | | | | | | 1 | 20 | | 24 |
| 25 | | 20 | 1 | | | | | | 0 | ---- | ---- | | | | | | 1 | 20 | | 26 |
| 27 | | 20 | 1 | | | | | | ---- | 0 | ---- | | | | | | 1 | 20 | | 28 |
| 29 | | 20 | 1 | | | | | | ---- | ---- | 0 | | | | | | 1 | 20 | | 30 |
| 31 | | 20 | 1 | | | | | | 0 | ---- | ---- | | | | | | 1 | 20 | | 32 |
| 33 | | 20 | 1 | | | | | | ---- | 0 | ---- | | | | | | 1 | 20 | | 34 |
| 35 | | 20 | 1 | | | | | | ---- | ---- | 0 | | | | | | 1 | 20 | | 36 |
| 37 | | 20 | 1 | SPARE | | | | | 0 | ---- | ---- | | | | | SPARE | 1 | 20 | | 38 |
| 39 | | 20 | 1 | SPARE | | | | | ---- | 0 | ---- | | | | | SPARE | 1 | 20 | | 40 |
| 41 | | 20 | 1 | SPARE | | | | | ---- | ---- | 0 | | | | | SPARE | 1 | 20 | | 42 |
| NOTES: | | | | | | | | TOTAL | 0 | 0 | 0 | | | | | | | | | |

| | |
|---|---|
| CONN.KVA (CODE 1) | 0.0 |
| CONN.KVA (CODE 2) | 0.0 |
| CONN.KVA (CODE 3) | 0.0 |
| CONN.KVA (CODE 4) | 0.0 |
| CONNECTED KVA | 0.0 |
| CONNECTED AMPS | 0.0 |
| FEEDER DEMAND KVA | 0.0 |
| FEEDER DEMAND AMPS | 0.0 |

MCB = MAIN CIRCUIT BREAKER MLO = MAIN LUGS ONLY

| PANEL: | "LLA2" | BRANCH: | NORMAL |
|---|---|---|---|
| LOCATION: | | VOLTAGE: | 208/120V CKT CODE: 1=(CONTINUOUS LOAD) |
| FED FROM: | MSBD | PHASE & WIRE: | 3PH,4W 2=(NON-CONTINUOUS) |
| MOUNTING: | RECESSED NEMA-1 | MIN. BUS: | 225 AMPS 3=(RECEPTACLES) |
| AIC RATING: | 42000 | MCB: | 225 AMPS 4=(KITCHEN) NO. OF EQUIP= |

| CIRCUIT | | CKT BKR | | LOAD TYPE & DESIGNATION | | | | LOAD | | PHASES | | LOAD | LOAD TYPE & DESIGNATION | | | | CKT BKR | | CIRCUIT | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | CODE | TRIP | POLE | DESCRIPTION | MISC | REC | LTG | VA | A | B | C | VA | LTG | REC | MISC | DESCRIPTION | POLE | TRIP | CODE | NO |
| 1 | | 20 | 1 | | | | | | 0 | ---- | ---- | | | | | | 1 | 20 | | 2 |
| 3 | | 20 | 1 | | | | | | ---- | 0 | ---- | | | | | | 1 | 20 | | 4 |
| 5 | | 20 | 1 | | | | | | ---- | ---- | 0 | | | | | | 1 | 20 | | 6 |
| 7 | | 20 | 1 | | | | | | 0 | ---- | ---- | | | | | | 1 | 20 | | 8 |
| 9 | | 20 | 1 | | | | | | ---- | 0 | ---- | | | | | | 1 | 20 | | 10 |
| 11 | | 20 | 1 | | | | | | ---- | ---- | 0 | | | | | | 1 | 20 | | 12 |
| 13 | | 20 | 1 | | | | | | 0 | ---- | ---- | | | | | | 1 | 20 | | 14 |
| 15 | | 20 | 1 | | | | | | ---- | 0 | ---- | | | | | | 1 | 20 | | 16 |
| 17 | | 20 | 1 | | | | | | ---- | ---- | 0 | | | | | | 1 | 20 | | 18 |
| 19 | | 20 | 1 | | | | | | 0 | ---- | ---- | | | | | | 1 | 20 | | 20 |
| 21 | | 20 | 1 | | | | | | ---- | 0 | ---- | | | | | | 1 | 20 | | 22 |
| 23 | | 20 | 1 | | | | | | ---- | ---- | 0 | | | | | | 1 | 20 | | 24 |
| 25 | | 20 | 1 | | | | | | 0 | ---- | ---- | | | | | | 1 | 20 | | 26 |
| 27 | | 20 | 1 | | | | | | ---- | 0 | ---- | | | | | | 1 | 20 | | 28 |
| 29 | | 20 | 1 | | | | | | ---- | ---- | 0 | | | | | | 1 | 20 | | 30 |
| 31 | | 20 | 1 | | | | | | 0 | ---- | ---- | | | | | | 1 | 20 | | 32 |
| 33 | | 20 | 1 | | | | | | ---- | 0 | ---- | | | | | | 1 | 20 | | 34 |
| 35 | | 20 | 1 | | | | | | ---- | ---- | 0 | | | | | | 1 | 20 | | 36 |
| 37 | | 20 | 1 | SPARE | | | | | 0 | ---- | ---- | | | | | SPARE | 1 | 20 | | 38 |
| 39 | | 20 | 1 | SPARE | | | | | ---- | 0 | ---- | | | | | SPARE | 1 | 20 | | 40 |
| 41 | | 20 | 1 | SPARE | | | | | ---- | ---- | 0 | | | | | SPARE | 1 | 20 | | 42 |
| NOTES: | | | | | | | | TOTAL | 0 | 0 | 0 | | | | | | | | | |

| | |
|---|---|
| CONN.KVA (CODE 1) | 0.0 |
| CONN.KVA (CODE 2) | 0.0 |
| CONN.KVA (CODE 3) | 0.0 |
| CONN.KVA (CODE 4) | 0.0 |
| CONNECTED KVA | 0.0 |
| CONNECTED AMPS | 0.0 |
| FEEDER DEMAND KVA | 0.0 |
| FEEDER DEMAND AMPS | 0.0 |

MCB = MAIN CIRCUIT BREAKER MLO = MAIN LUGS ONLY

| PANEL: | "1LA1" | BRANCH: | NORMAL |
|---|---|---|---|
| LOCATION: | | VOLTAGE: | 208/120V CKT CODE: 1=(CONTINUOUS LOAD) |
| FED FROM: | MSBD | PHASE & WIRE: | 3PH,4W 2=(NON-CONTINUOUS) |
| MOUNTING: | RECESSED NEMA-1 | MIN. BUS: | 225 AMPS 3=(RECEPTACLES) |
| AIC RATING: | 42000 | MCB: | 225 AMPS 4=(KITCHEN) NO. OF EQUIP= |

| CIRCUIT | | CKT BKR | | LOAD TYPE & DESIGNATION | | | | LOAD | | PHASES | | LOAD | LOAD TYPE & DESIGNATION | | | | CKT BKR | | CIRCUIT | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | CODE | TRIP | POLE | DESCRIPTION | MISC | REC | LTG | VA | A | B | C | VA | LTG | REC | MISC | DESCRIPTION | POLE | TRIP | CODE | NO |
| 1 | | 20 | 1 | | | | | | 0 | ---- | ---- | | | | | | 1 | 20 | | 2 |
| 3 | | 20 | 1 | | | | | | ---- | 0 | ---- | | | | | | 1 | 20 | | 4 |
| 5 | | 20 | 1 | | | | | | ---- | ---- | 0 | | | | | | 1 | 20 | | 6 |
| 7 | | 20 | 1 | | | | | | 0 | ---- | ---- | | | | | | 1 | 20 | | 8 |
| 9 | | 20 | 1 | | | | | | ---- | 0 | ---- | | | | | | 1 | 20 | | 10 |
| 11 | | 20 | 1 | | | | | | ---- | ---- | 0 | | | | | | 1 | 20 | | 12 |
| 13 | | 20 | 1 | | | | | | 0 | ---- | ---- | | | | | | 1 | 20 | | 14 |
| 15 | | 20 | 1 | | | | | | ---- | 0 | ---- | | | | | | 1 | 20 | | 16 |
| 17 | | 20 | 1 | | | | | | ---- | ---- | 0 | | | | | | 1 | 20 | | 18 |
| 19 | | 20 | 1 | | | | | | 0 | ---- | ---- | | | | | | 1 | 20 | | 20 |
| 21 | | 20 | 1 | | | | | | ---- | 0 | ---- | | | | | | 1 | 20 | | 22 |
| 23 | | 20 | 1 | | | | | | ---- | ---- | 0 | | | | | | 1 | 20 | | 24 |
| 25 | | 20 | 1 | | | | | | 0 | ---- | ---- | | | | | | 1 | 20 | | 26 |
| 27 | | 20 | 1 | | | | | | ---- | 0 | ---- | | | | | | 1 | 20 | | 28 |
| 29 | | 20 | 1 | | | | | | ---- | ---- | 0 | | | | | | 1 | 20 | | 30 |
| 31 | | 20 | 1 | | | | | | 0 | ---- | ---- | | | | | | 1 | 20 | | 32 |
| 33 | | 20 | 1 | | | | | | ---- | 0 | ---- | | | | | | 1 | 20 | | 34 |
| 35 | | 20 | 1 | | | | | | ---- | ---- | 0 | | | | | | 1 | 20 | | 36 |
| 37 | | 20 | 1 | SPARE | | | | | 0 | ---- | ---- | | | | | SPARE | 1 | 20 | | 38 |
| 39 | | 20 | 1 | SPARE | | | | | ---- | 0 | ---- | | | | | SPARE | 1 | 20 | | 40 |
| 41 | | 20 | 1 | SPARE | | | | | ---- | ---- | 0 | | | | | SPARE | 1 | 20 | | 42 |
| NOTES: | | | | | | | | TOTAL | 0 | 0 | 0 | | | | | | | | | |

| | |
|---|---|
| CONN.KVA (CODE 1) | 0.0 |
| CONN.KVA (CODE 2) | 0.0 |
| CONN.KVA (CODE 3) | 0.0 |
| CONN.KVA (CODE 4) | 0.0 |
| CONNECTED KVA | 0.0 |
| CONNECTED AMPS | 0.0 |
| FEEDER DEMAND KVA | 0.0 |
| FEEDER DEMAND AMPS | 0.0 |

MCB = MAIN CIRCUIT BREAKER MLO = MAIN LUGS ONLY

| PANEL: | "1LA2" | BRANCH: | NORMAL |
|---|---|---|---|
| LOCATION: | | VOLTAGE: | 208/120V CKT CODE: 1=(CONTINUOUS LOAD) |
| FED FROM: | MSBD | PHASE & WIRE: | 3PH,4W 2=(NON-CONTINUOUS) |
| MOUNTING: | RECESSED NEMA-1 | MIN. BUS: | 225 AMPS 3=(RECEPTACLES) |
| AIC RATING: | 42000 | MCB: | 225 AMPS 4=(KITCHEN) NO. OF EQUIP= |

| CIRCUIT | | CKT BKR | | LOAD TYPE & DESIGNATION | | | | LOAD | | PHASES | | LOAD | LOAD TYPE & DESIGNATION | | | | CKT BKR | | CIRCUIT | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | CODE | TRIP | POLE | DESCRIPTION | MISC | REC | LTG | VA | A | B | C | VA | LTG | REC | MISC | DESCRIPTION | POLE | TRIP | CODE | NO |
| 1 | | 20 | 1 | | | | | | 0 | ---- | ---- | | | | | | 1 | 20 | | 2 |
| 3 | | 20 | 1 | | | | | | ---- | 0 | ---- | | | | | | 1 | 20 | | 4 |
| 5 | | 20 | 1 | | | | | | ---- | ---- | 0 | | | | | | 1 | 20 | | 6 |
| 7 | | 20 | 1 | | | | | | 0 | ---- | ---- | | | | | | 1 | 20 | | 8 |
| 9 | | 20 | 1 | | | | | | ---- | 0 | ---- | | | | | | 1 | 20 | | 10 |
| 11 | | 20 | 1 | | | | | | ---- | ---- | 0 | | | | | | 1 | 20 | | 12 |
| 13 | | 20 | 1 | | | | | | 0 | ---- | ---- | | | | | | 1 | 20 | | 14 |
| 15 | | 20 | 1 | | | | | | ---- | 0 | ---- | | | | | | 1 | 20 | | 16 |
| 17 | | 20 | 1 | | | | | | ---- | ---- | 0 | | | | | | 1 | 20 | | 18 |
| 19 | | 20 | 1 | | | | | | 0 | ---- | ---- | | | | | | 1 | 20 | | 20 |
| 21 | | 20 | 1 | | | | | | ---- | 0 | ---- | | | | | | 1 | 20 | | 22 |
| 23 | | 20 | 1 | | | | | | ---- | ---- | 0 | | | | | | 1 | 20 | | 24 |
| 25 | | 20 | 1 | | | | | | 0 | ---- | ---- | | | | | | 1 | 20 | | 26 |
| 27 | | 20 | 1 | | | | | | ---- | 0 | ---- | | | | | | 1 | 20 | | 28 |
| 29 | | 20 | 1 | | | | | | ---- | ---- | 0 | | | | | | 1 | 20 | | 30 |
| 31 | | 20 | 1 | | | | | | 0 | ---- | ---- | | | | | | 1 | 20 | | 32 |
| 33 | | 20 | 1 | | | | | | ---- | 0 | ---- | | | | | | 1 | 20 | | 34 |
| 35 | | 20 | 1 | | | | | | ---- | ---- | 0 | | | | | | 1 | 20 | | 36 |
| 37 | | 20 | 1 | SPARE | | | | | 0 | ---- | ---- | | | | | SPARE | 1 | 20 | | 38 |
| 39 | | 20 | 1 | SPARE | | | | | ---- | 0 | ---- | | | | | SPARE | 1 | 20 | | 40 |
| 41 | | 20 | 1 | SPARE | | | | | ---- | ---- | 0 | | | | | SPARE | 1 | 20 | | 42 |
| NOTES: | | | | | | | | TOTAL | 0 | 0 | 0 | | | | | | | | | |

| | |
|---|---|
| CONN.KVA (CODE 1) | 0.0 |
| CONN.KVA (CODE 2) | 0.0 |
| CONN.KVA (CODE 3) | 0.0 |
| CONN.KVA (CODE 4) | 0.0 |
| CONNECTED KVA | 0.0 |
| CONNECTED AMPS | 0.0 |
| FEEDER DEMAND KVA | 0.0 |
| FEEDER DEMAND AMPS | 0.0 |

MCB = MAIN CIRCUIT BREAKER MLO = MAIN LUGS ONLY


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| | | |

PROJECT TITLE:

# Altadena Main Library

600 E MARIPOSA STREET
ALTADENA, CA 91001

PROJECT NO. 2111010

DATE: Issue Date

SHEET TITLE:

## PANEL SCHEDULES

SCALE: N.T.S.


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E501

REGISTERED PROFESSIONAL ENGINEER
CHEN RSING TANG
No. E 16592
ELECTRICAL
STATE OF CALIFORNIA


DCGA ENGINEERS
Consulting Mechanical and Electrical Engineers
4750 E. Ontario Mills Pkwy
Ontario, Ca. 91764
Ph.909.987.0017
Fax 909.980.7023

| AV SYSTEMS SHEET SET | |
|---|---|
| Sheet Number | Sheet Name |
| 00 - LEGEND | |
| AV000 | LEGEND |
| 1 - KEY PLANS | |
| AV101 | FLOOR PLAN - LOWER LEVEL - AV SYSTEMS |
| AV101A | FLOOR PLAN - LOWER LEVEL - ADD ALTS - AV SYSTEMS |
| AV102 | FLOOR PLAN - MAIN LEVEL - AV SYSTEMS |
| 20-ENLARGED | |
| AV201 | TELE MEETING ROOM ENLARGED PLANS |
| AV202 | STAFF MEETING ROOM ENLARGED PLANS |
| AV203 | DIGITAL SIGNAGE ENLARGED PLANS |
| AV204 | GAMING ROOM ENLARGED PLANS |
| AV205 | COMMUNITY ROOM ENLARGED PLANS |
| AV206 | OPEN WORK AREA ENLARGED PLANS |
| 30-SECTIONS AND ELEVATIONS | |
| AV301 | TELE MEETING ROOM SECTIONS AND ELEVATIONS |
| AV302 | STAFF MEETING ROOM SECTIONS AND ELEVATIONS |
| AV303 | DIGITAL SIGNAGE SECTIONS AND ELEVATIONS |
| AV304 | GAMING ROOM SECTIONS AND ELEVATIONS |
| AV305 | COMMUNITY ROOM SECTIONS AND ELEVATIONS |
| AV306 | OPEN WORK AREA SECTIONS AND ELEVATIONS |

| EXAMPLE SHEET SET | | |
|---|---|---|
| Sheet Number | Sheet Name | |
| 0 - LEGEND | | |
| 000 | LEGEND | 0 |
| 1 - KEY PLANS | | |
| 101 | KEY PLANS - LEVEL 01 | 1 |
| 102 | KEY PLANS - LEVEL 02 | |
| 2 - ENLARGEMENTS | | |
| 201 | ENLARGED PLANS - SYSTEM 01 | 2 |
| 202 | ENLARGED PLANS - SYSTEM 02 | |
| 3 - ELEVATIONS AND SECTIONS | | |
| 301 | ELEVATIONS AND SECTIONS - SYSTEM 01 | 3 |
| 302 | ELEVATIONS AND SECTIONS - SYSTEM 02 | |
| 4 - LINE DIAGRAMS | | |
| 401 | LINE DIAGRAMS - SYSTEM 01 | 4 |
| 402 | LINE DIAGRAMS - SYSTEM 02 | |
| 5 - RACK ELEVATIONS | | |
| 501 | RACK ELEVATIONS | 5 |
| 6 - CUSTOM PLATES | | |
| 601 | CUSTOM PLATES | 6 |

| SHEET LIST NAVIGATION | |
|---|---|
| ID | DESCRIPTION |
| 0 | SHEET LIST AND DRAWING SYMBOL LEGENDS |
| 1 | OVERALL KEY PLANS INDICATING SYSTEM LOCATIONS - SHEET NUMBER CORRESPONDS WITH LEVEL |
| 2 | ENLARGED PLANS PER SYSTEM - SHEET NUMBER CORRESPONDS TO SYSTEM ID |
| 3 | ELEVATIONS AND SECTIONS PER SYSTEM - SHEET NUMBER CORRESPONDS TO SYSTEM ID |
| 4 | LINE DIAGRAMS PER SYSTEM - SHEET NUMBER CORRESPONDS TO SYSTEM ID (AV ONLY) |
| 5 | AV EQUIPMENT RACK ELEVATIONS (AV ONLY) |
| 6 | CUSTOM PLATES AND METAL WORK (AV ONLY) |




# REPRESENTS THE EQUIPMENT TYPE ID. ALL EQUIPMENT OF THE SAME MAKE, MODEL, MOUNTING METHOD AND INSTALLATION SPECIFICATION BELONG TO A SINGLE EQUIPMENT TYPE ID.

(#) REPRESENTS THE EQUIPMENT INSTANCE ID. EACH INSTANCE OF EQUIPMENT WILL HAVE A UNIQUE EQUIPMENT INSTANCE ID PER SYSTEM.

| AV NOTES | |
|---|---|
| [1] | INSTALL WALL MOUNTED TOUCHPANELS ACCORDING TO APPLICABLE ACCESSIBILITY GUIDELINES. |
| [2] | CAMERA LENS ELEVATION IS SHOWN AS REQUIRED. MODIFICATIONS OR SUBSTITUTIONS SHOULD MAINTAIN LENS LOCATION. SCHEDULED DIMENSIONS FOR CAMERAS ARE TO CENTER OF LENS. |
| [3] | PROJECTOR LENS ELEVATION IS SHOWN AS REQUIRED. MODIFICATIONS OR SUBSTITUTIONS SHOULD MAINTAIN LENS LOCATION. SCHEDULED DIMENSIONS FOR CAMERAS ARE TO CENTER OF LENS. |
| [4] | DISPLAY MOUNT ELEVATION IS MEASURED TO CENTER OF BRACKET. |

| AV EQUIPMENT ADDITIONAL INFORMATION | |
|---|---|
| ID | DESCRIPTION |
| 1 | PROJECTION SCREEN |
| 2 | 8-BUTTON CONTROL KEYPAD |
| 5 | 33" MULTIMEDIA LECTERN |
| 6 | WEBCAM |
| 8 | EXPANSION MICROPHONE |
| 10 | AV CONNECTION PLATE |
| 11 | PROJECTOR |
| 13 | 6.5" CEILING SPEAKER |
| 14 | 55" DISPLAY |
| 15 | OWNER FURNISHED MONITOR |
| 16 | CONFERENCE CONTROL TOUCH INTERFACE |
| 18 | 12X PTZ CAMERA |
| 20 | PTZ CAMERA CONTROLLER |
| 50 | 65" DISPLAY |
| 55 | 45 SPACE (78-3/4"), 32" DEEP, MULTIBAY BGR RACK WITH REAR DOOR, BLACK FINISH |
| 56 | 44RU EQUIPMENT RACK |
| 57 | CONFERENCE CAMERA/MIC/SPEAKER |
| 68 | X-LARGE TILT WALL DISPLAY MOUNT |
| 70 | MEDIUM TILT MICRO-ADJUSTABLE WALL DISPLAY MOUNT |



THIS SYMBOL DESIGNATES AN AV ENABLED SPACE. THE NUMBER INDICATES THE ASSOCIATED SYSTEM ID. THE ARROW INDICATES ROOM FOCUS OR PRIMARY USER ENGAGEMENT DIRECTION.

10/12/2023 2:15:32 PM

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PROJECT TITLE:

# ALTADENA MAIN LIBRARY

600 E MARIPOSA STREET
ALTADENA, CA 91001

| | |
|---|---|
| PROJECT NO. | 2111010 |
| DATE: | 10/11/2023 |

SHEET TITLE:

## LEGEND

SCALE: 12" = 1'-0"

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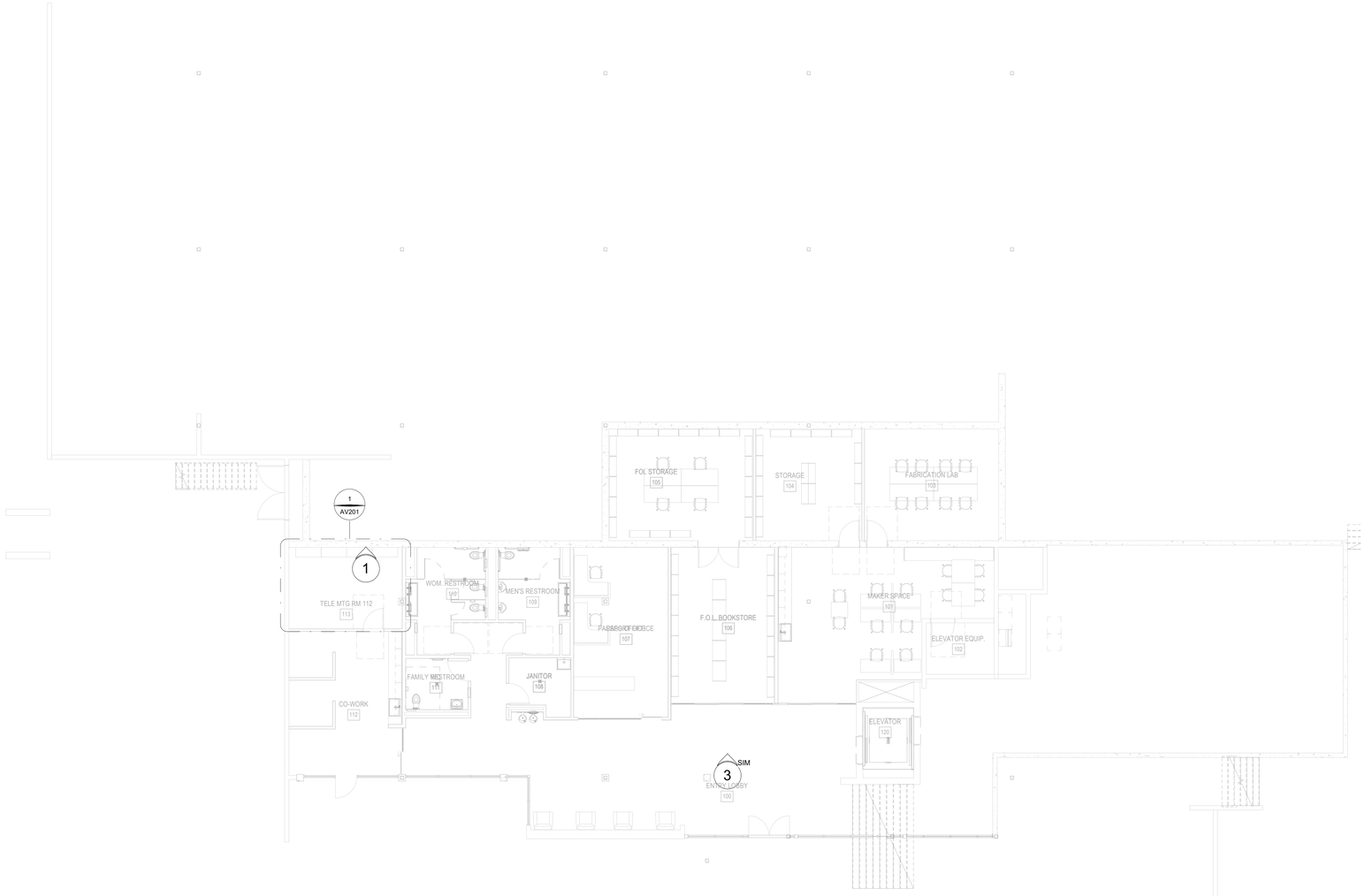
AV000

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PROJECT TITLE:

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ALTADENA, CA 91001

| | |
|---|---|
| PROJECT NO. | 2111010 |
| DATE: | 10/11/2023 |

SHEET TITLE:

## FLOOR PLAN - LOWER LEVEL - AV SYSTEMS

SCALE: 1/8" = 1'-0"

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AV101

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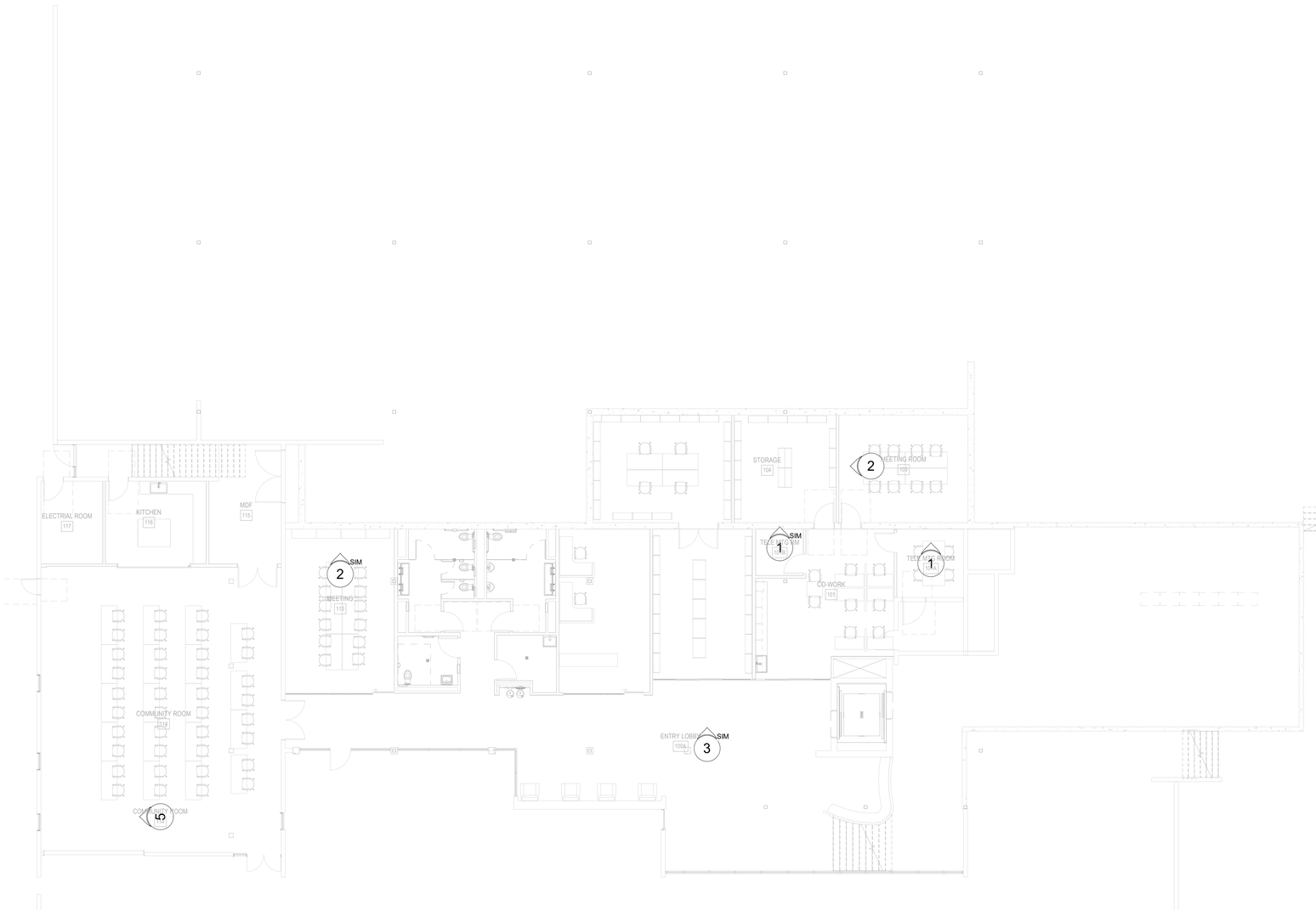


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PROJECT TITLE:

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| | |
|---|---|
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SHEET TITLE:

## FLOOR PLAN - LOWER LEVEL - ADD ALTS - AV SYSTEMS

SCALE: 1/8" = 1'-0"

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AV101A

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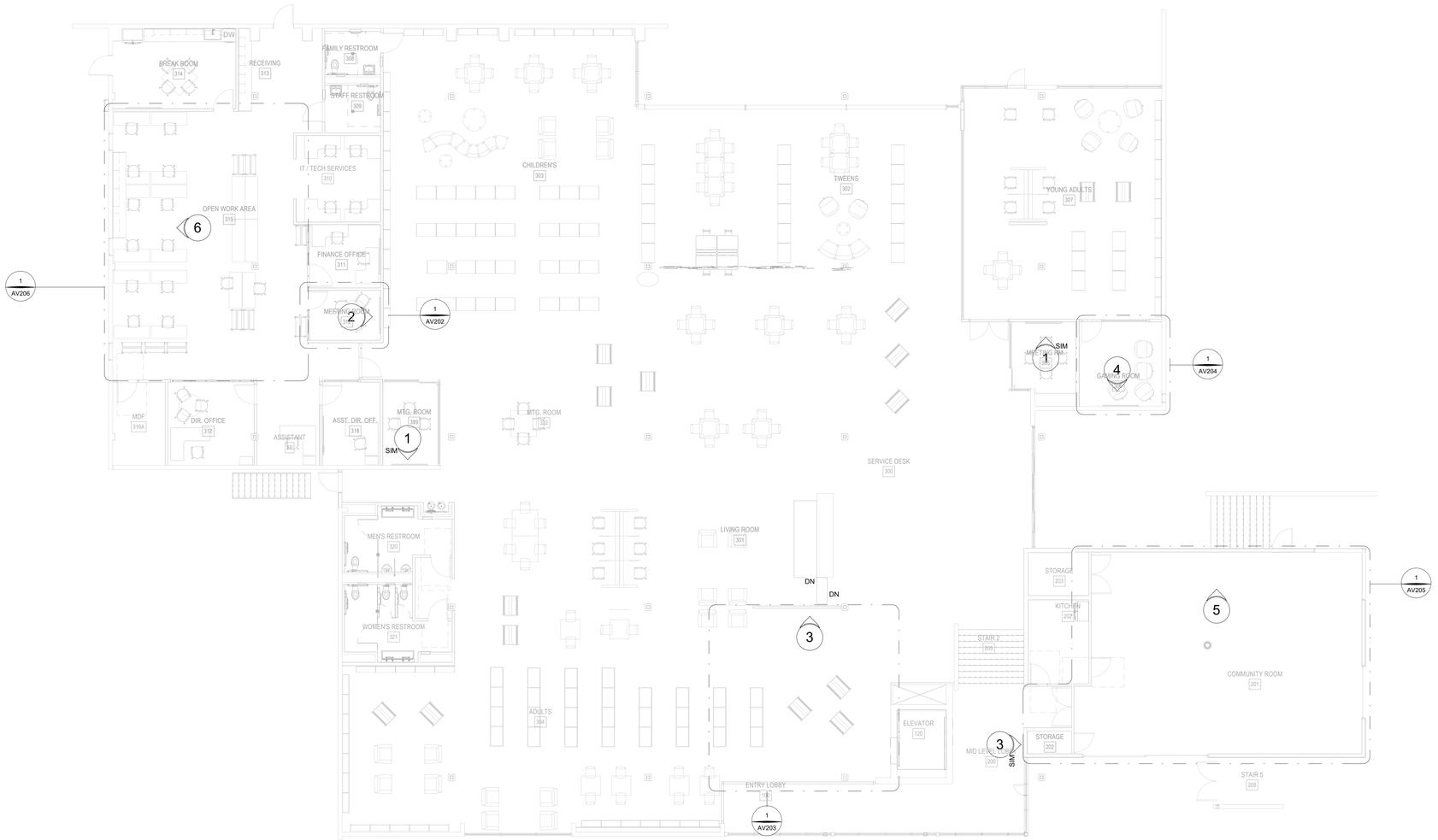


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| | |
|---|---|
| PROJECT NO. | 2111010 |
| DATE: | 10/11/2023 |

SHEET TITLE:

## FLOOR PLAN - MAIN LEVEL - AV SYSTEMS

SCALE: 1/8" = 1'-0"

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AV102

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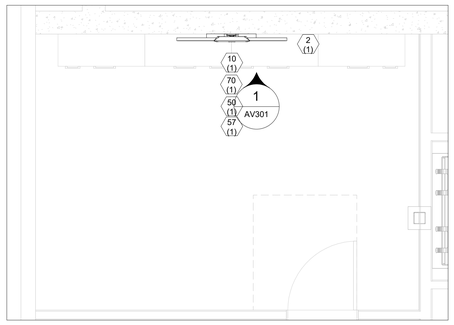


1 TELE MEETING ROOM
3/8" = 1'-0"

| 1 - AV | | |
|---|---|---|
| TYPE | DETAIL | SHEET |
| KEY PLAN | 1 | AV101 |
| KEY PLAN | 1 | AV102 |
| ENLARGED PLAN | 1 | AV201 |
| ELEVATION | | AV301 |

| 1 - AV EQUIPMENT | | | |
|---|---|---|---|
| ID | COUNT | AFF | DESCRIPTION |
| 2 | 1 | 45" | 8-BUTTON CONTROL KEYPAD |
| 10 | 2 | | AV CONNECTION PLATE |
| 14 | 1 | 38" | 55" DISPLAY |
| 50 | 1 | 36" | 65" DISPLAY |
| 57 | 1 | 71 1/16" | CONFERENCE CAMERA/MIC/SPEAKER |

ALL ELEVATION DIMENSIONS ARE FROM FINISHED FLOOR TO BOTTOM OF DEVICE UNLESS OTHERWISE NOTED.

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PROJECT TITLE:

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## TELE MEETING ROOM ENLARGED PLANS

SCALE: 3/8" = 1'-0"

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AV201

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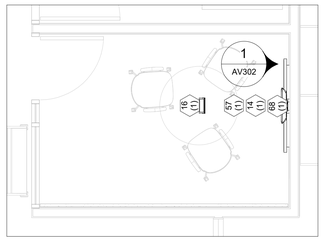


1 STAFF MEETING ROOM
3/8" = 1'-0"

| 2 - AV | | |
|---|---|---|
| TYPE | DETAIL | SHEET |
| KEY PLAN | 1 | AV101 |
| KEY PLAN | 1 | AV102 |
| ENLARGED PLAN | 1 | AV202 |
| ELEVATION | | AV302 |

| 2 - AV EQUIPMENT | | | |
|---|---|---|---|
| ID | COUNT | AFF | DESCRIPTION |
| 14 | 1 | 30" | 55" DISPLAY |
| 16 | 2 | | CONFERENCE CONTROL TOUCH INTERFACE |
| 57 | 1 | 60 3/16" | CONFERENCE CAMERA/MIC/SPEAKER |
| 68 | 1 | 44" | X-LARGE TILT WALL DISPLAY MOUNT |

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| PROJECT NO. | 2111010 |
| DATE: | 10/11/2023 |

SHEET TITLE:

## STAFF MEETING ROOM ENLARGED PLANS

SCALE: 3/8" = 1'-0"

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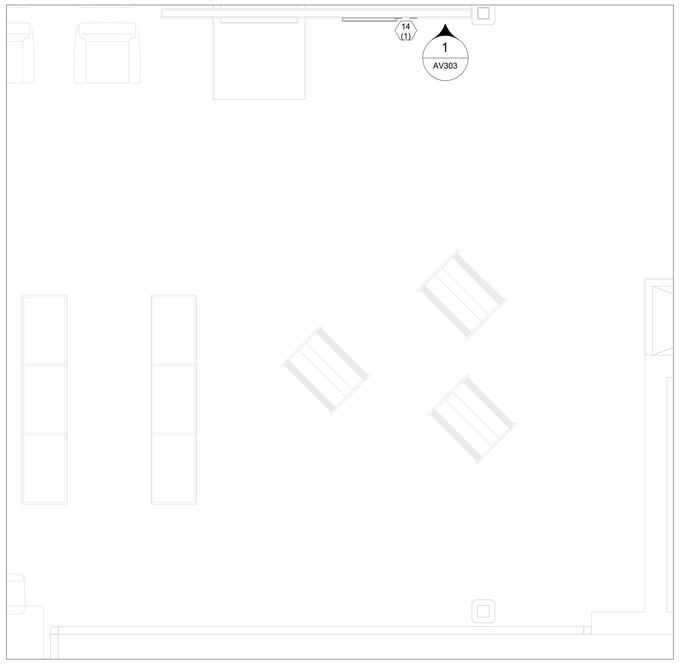
AV202




1 DIGITAL SIGNAGE
3/8" = 1'-0"

| 3 - AV | | |
|---|---|---|
| TYPE | DETAIL | SHEET |
| KEY PLAN | 1 | AV102 |
| ENLARGED PLAN | 1 | AV203 |
| ELEVATION | | AV303 |

| 3 - AV EQUIPMENT | | | |
|---|---|---|---|
| ID | COUNT | AFF | DESCRIPTION |
| 14 | 1 | 77 1/32" | 55" DISPLAY |

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PROJECT TITLE:

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| | |
|---|---|
| PROJECT NO. | 2111010 |
| DATE: | 10/11/2023 |

SHEET TITLE:

## DIGITAL SIGNAGE ENLARGED PLANS

SCALE: 3/8" = 1'-0"

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AV203

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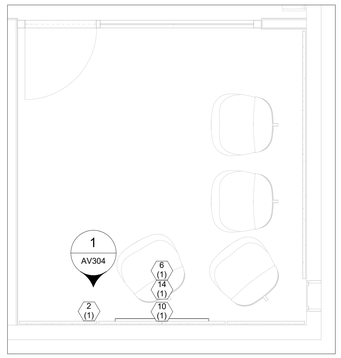


1 GAMING ROOM
3/8" = 1'-0"

| 4 - AV | | |
|---|---|---|
| TYPE | DETAIL | SHEET |
| KEY PLAN | 1 | AV102 |
| ENLARGED PLAN | 1 | AV204 |
| ELEVATION | | AV304 |

| 4 - AV EQUIPMENT | | | |
|---|---|---|---|
| ID | COUNT | AFF | DESCRIPTION |
| 2 | 1 | 45" | 8-BUTTON CONTROL KEYPAD |
| 6 | 1 | 69" | WEBCAM |
| 10 | 1 | 18" | AV CONNECTION PLATE |
| 14 | 1 | 39 5/8" | 55" DISPLAY |

ALL ELEVATION DIMENSIONS ARE FROM FINISHED FLOOR TO BOTTOM OF DEVICE UNLESS OTHERWISE NOTED.

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PROJECT TITLE:

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600 E MARIPOSA STREET
ALTADENA, CA 91001

| | |
|---|---|
| PROJECT NO. | 2111010 |
| DATE: | 10/11/2023 |

SHEET TITLE:

## GAMING ROOM ENLARGED PLANS

SCALE: 3/8" = 1'-0"

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AV204

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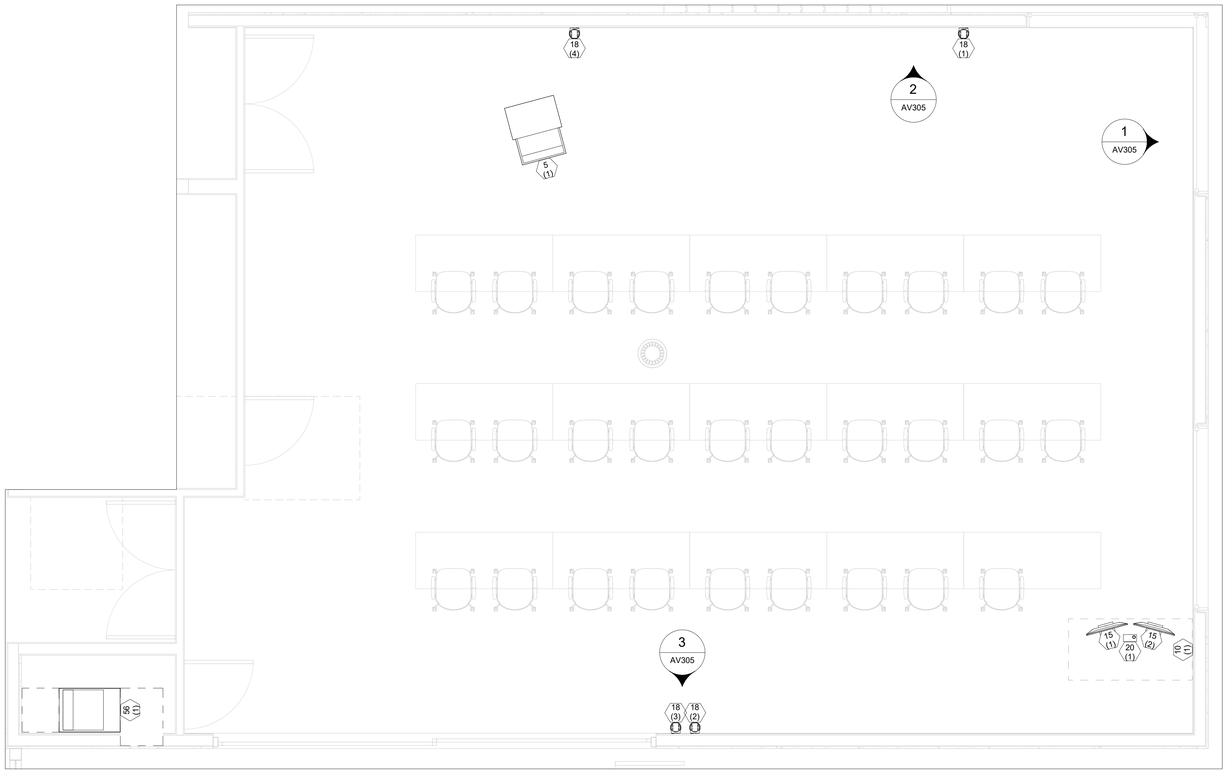
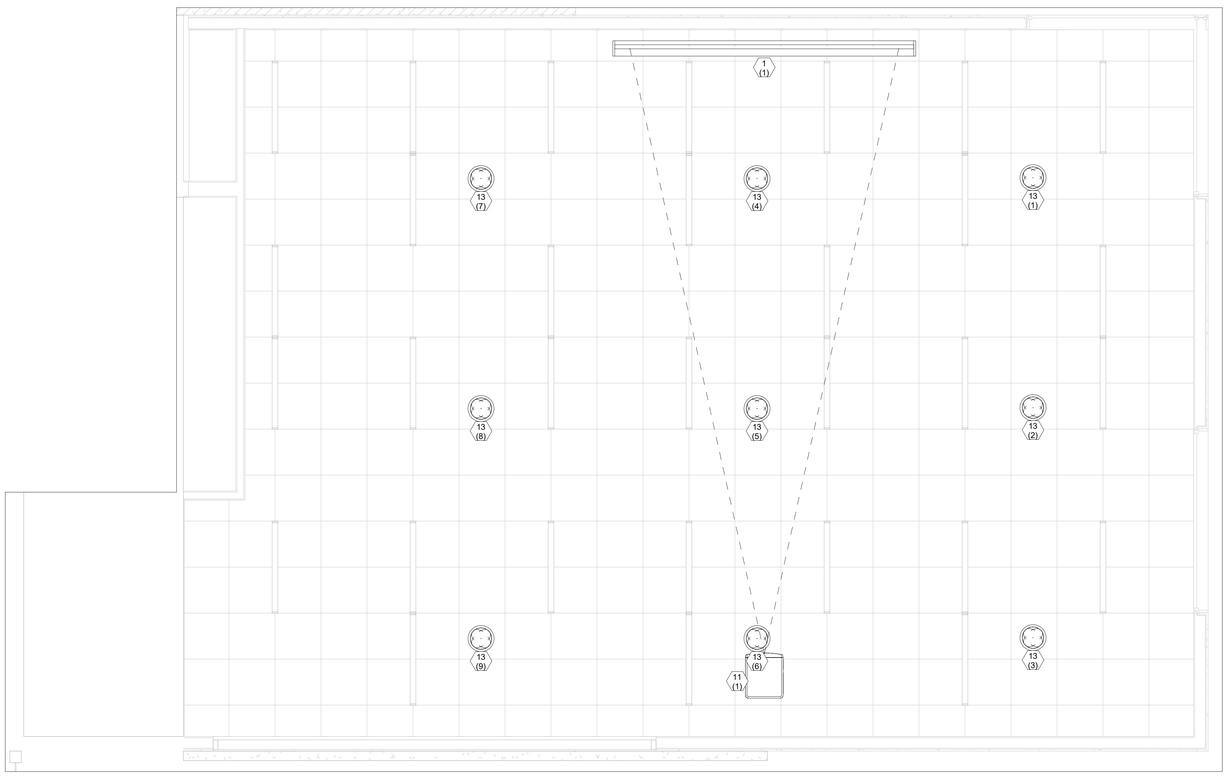



1 COMMUNITY ROOM
3/8" = 1'-0"




2 COMMUNITY ROOM
3/8" = 1'-0"

| 5 - AV | | |
|---|---|---|
| TYPE | DETAIL | SHEET |
| KEY PLAN | 1 | AV102 |
| ENLARGED PLAN | 1 | AV205 |
| ENLARGED RCP | 2 | AV205 |
| ELEVATION | 1 | AV305 |
| ELEVATION | 2 | AV305 |
| ELEVATION | 3 | AV305 |

| 5 - AV EQUIPMENT | | | |
|---|---|---|---|
| ID | COUNT | AFF | DESCRIPTION |
| 1 | 1 | 61 1/8" | PROJECTION SCREEN |
| 5 | 1 | -68" | 33" MULTIMEDIA LECTERN |
| 10 | 1 | -50" | AV CONNECTION PLATE |
| 11 | 1 | 52 17/32" | PROJECTOR |
| 13 | 9 | 59 1/2" | 6.5" CEILING SPEAKER |
| 15 | 2 | -38" | OWNER FURNISHED MONITOR |
| 18 | 4 | 22" | 12X PTZ CAMERA |
| 20 | 1 | -38" | PTZ CAMERA CONTROLLER |
| 56 | 1 | 0" | 44RU EQUIPMENT RACK |

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PROJECT TITLE:

# ALTADENA MAIN LIBRARY

600 E MARIPOSA STREET
ALTADENA, CA 91001

| | |
|---|---|
| PROJECT NO. | 2111010 |
| DATE: | 10/11/2023 |

SHEET TITLE:

## COMMUNITY ROOM ENLARGED PLANS

SCALE: 3/8" = 1'-0"

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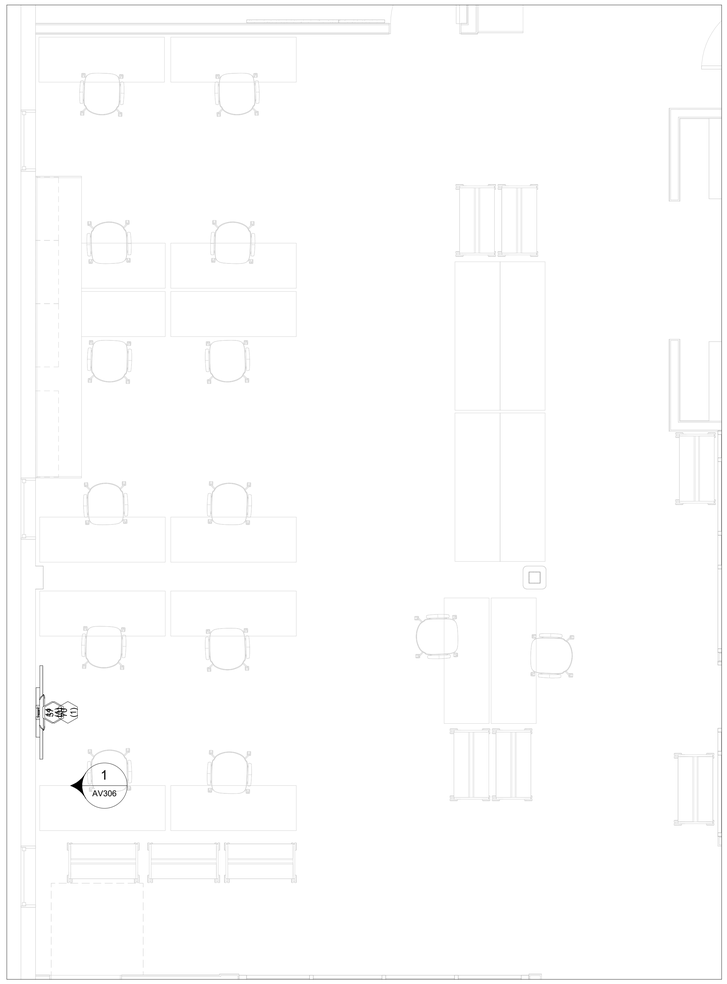
AV205




1 OPEN WORK AREA
3/8" = 1'-0"

| 6 - AV | | |
|---|---|---|
| TYPE | DETAIL | SHEET |
| KEY PLAN | 1 | AV102 |
| ENLARGED PLAN | | AV206 |
| ELEVATION | | AV306 |

| 6 - AV EQUIPMENT | | | |
|---|---|---|---|
| ID | COUNT | AFF | DESCRIPTION |
| 14 | 1 | 34" | 55" DISPLAY |
| 70 | 1 | 51" | MEDIUM TILT MICRO-ADJUSTABLE WALL DISPLAY MOUNT |

ALL ELEVATION DIMENSIONS ARE FROM FINISHED FLOOR TO BOTTOM OF DEVICE UNLESS OTHERWISE NOTED.

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|---|---|---|
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PROJECT TITLE:

# ALTADENA MAIN LIBRARY

600 E MARIPOSA STREET
ALTADENA, CA 91001

| | |
|---|---|
| PROJECT NO. | 2111010 |
| DATE: | 10/11/2023 |

SHEET TITLE:

## OPEN WORK AREA ENLARGED PLANS

SCALE: 3/8" = 1'-0"

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AV206

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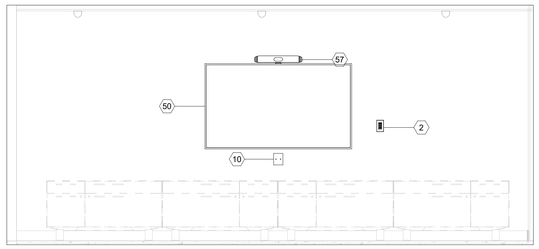


1 TELE MEETING ROOM - NORTH
1/2" = 1'-0"

| 1 - AV | | |
|---|---|---|
| TYPE | DETAIL | SHEET |
| KEY PLAN | 1 | AV101 |
| KEY PLAN | 1 | AV102 |
| ENLARGED PLAN | 1 | AV201 |
| ELEVATION | | AV301 |

| 1 - AV EQUIPMENT | | | |
|---|---|---|---|
| ID | COUNT | AFF | DESCRIPTION |
| 2 | 1 | 45" | 8-BUTTON CONTROL KEYPAD |
| 10 | 2 | | AV CONNECTION PLATE |
| 14 | 1 | 38" | 55" DISPLAY |
| 50 | 1 | 36" | 65" DISPLAY |
| 57 | 1 | 71 1/16" | CONFERENCE CAMERA/MIC/SPEAKER |

ALL ELEVATION DIMENSIONS ARE FROM FINISHED FLOOR TO BOTTOM OF DEVICE UNLESS OTHERWISE NOTED.

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PROJECT TITLE:

# ALTADENA MAIN LIBRARY

600 E MARIPOSA STREET
ALTADENA, CA 91001

| | |
|---|---|
| PROJECT NO. | 2111010 |
| DATE: | 10/11/2023 |

SHEET TITLE:

## TELE MEETING ROOM SECTIONS AND ELEVATIONS

SCALE: 1/2" = 1'-0"

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AV301

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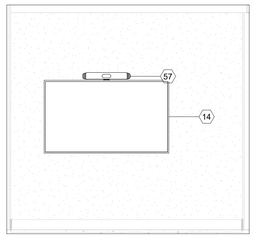


1 STAFF MEETING ROOM - EAST
1/2" = 1'-0"

| 2 - AV | | |
|---|---|---|
| TYPE | DETAIL | SHEET |
| KEY PLAN | 1 | AV101 |
| KEY PLAN | 1 | AV102 |
| ENLARGED PLAN | 1 | AV202 |
| ELEVATION | | AV302 |

| 2 - AV EQUIPMENT | | | |
|---|---|---|---|
| ID | COUNT | AFF | DESCRIPTION |
| 14 | 1 | 30" | 55" DISPLAY |
| 16 | 2 | | CONFERENCE CONTROL TOUCH INTERFACE |
| 57 | 1 | 60 3/16" | CONFERENCE CAMERA/MIC/SPEAKER |
| 68 | 1 | 44" | X-LARGE TILT WALL DISPLAY MOUNT |

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10/1/2023 2:15:53 PM

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PROJECT TITLE:

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SHEET TITLE:

## STAFF MEETING ROOM SECTIONS AND ELEVATIONS

SCALE: 1/2" = 1'-0"

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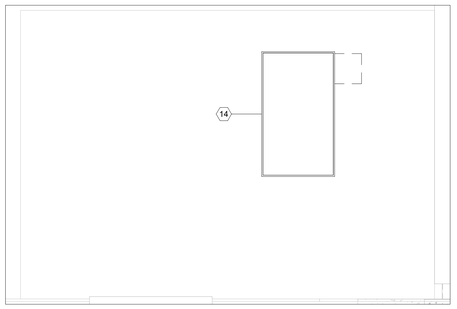
AV302




1 DIGITAL SIGNAGE - NORTH
1/2" = 1'-0"

| 3 - AV | | |
|---|---|---|
| TYPE | DETAIL | SHEET |
| KEY PLAN | 1 | AV102 |
| ENLARGED PLAN | 1 | AV203 |
| ELEVATION | | AV303 |

| 3 - AV EQUIPMENT | | | |
|---|---|---|---|
| ID | COUNT | AFF | DESCRIPTION |
| 14 | 1 | 77 1/32" | 55" DISPLAY |

ALL ELEVATION DIMENSIONS ARE FROM FINISHED FLOOR TO BOTTOM OF DEVICE UNLESS OTHERWISE NOTED.

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| PROJECT NO. | 2111010 |
| DATE: | 10/11/2023 |

SHEET TITLE:

## DIGITAL SIGNAGE SECTIONS AND ELEVATIONS

SCALE: 1/2" = 1'-0"

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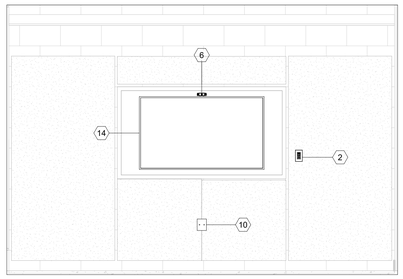


1 GAMING ROOM - SOUTH
1/2" = 1'-0"

| 4 - AV | | |
|---|---|---|
| TYPE | DETAIL | SHEET |
| KEY PLAN | 1 | AV102 |
| ENLARGED PLAN | 1 | AV204 |
| ELEVATION | | AV304 |

| 4 - AV EQUIPMENT | | | |
|---|---|---|---|
| ID | COUNT | AFF | DESCRIPTION |
| 2 | 1 | 45" | 8-BUTTON CONTROL KEYPAD |
| 6 | 1 | 69" | WEBCAM |
| 10 | 1 | 18" | AV CONNECTION PLATE |
| 14 | 1 | 39 5/8" | 55" DISPLAY |

ALL ELEVATION DIMENSIONS ARE FROM FINISHED FLOOR TO BOTTOM OF DEVICE UNLESS OTHERWISE NOTED.

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PROJECT TITLE:

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|---|---|
| PROJECT NO. | 2111010 |
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SHEET TITLE:

## GAMING ROOM SECTIONS AND ELEVATIONS

SCALE: 1/2" = 1'-0"

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AV304

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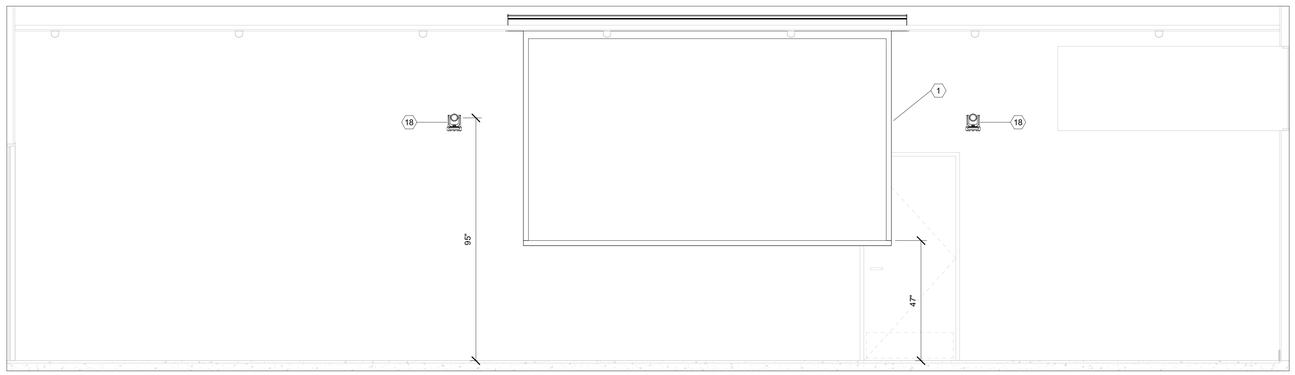
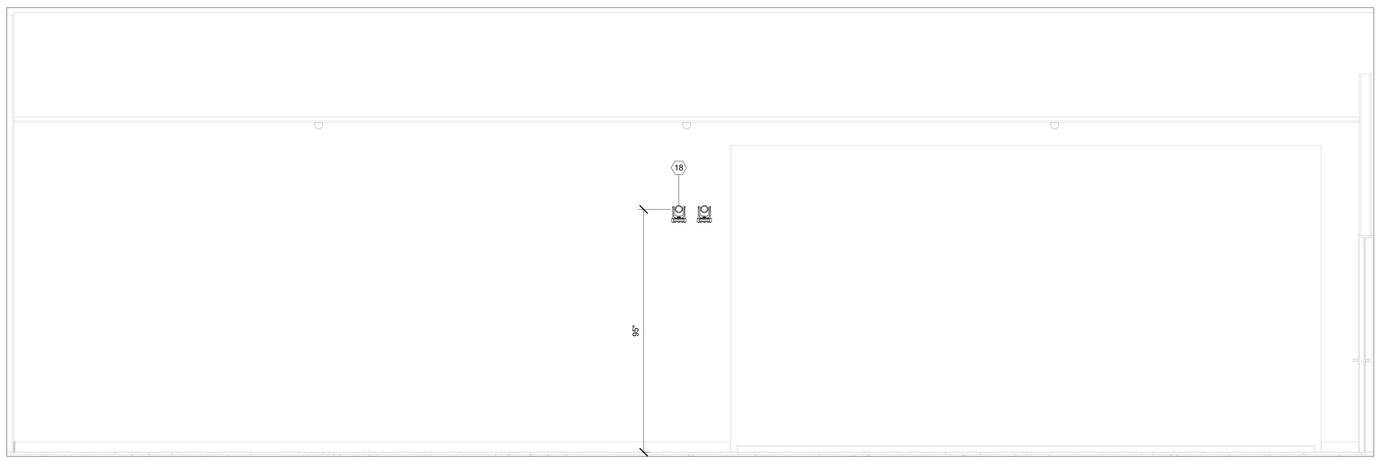
1 COMMUNITY ROOM - EAST
1/2" = 1'-0"




2 COMMUNITY ROOM - NORTH
1/2" = 1'-0"




3 COMMUNITY ROOM - SOUTH
1/2" = 1'-0"

| 5 - AV | | |
|---|---|---|
| TYPE | DETAIL | SHEET |
| KEY PLAN | 1 | AV102 |
| ENLARGED PLAN | 1 | AV205 |
| ENLARGED RCP | 2 | AV205 |
| ELEVATION | 1 | AV305 |
| ELEVATION | 2 | AV305 |
| ELEVATION | 3 | AV305 |

| 5 - AV EQUIPMENT | | | |
|---|---|---|---|
| ID | COUNT | AFF | DESCRIPTION |
| 1 | 1 | 61 1/8" | PROJECTION SCREEN |
| 5 | 1 | -68" | 33" MULTIMEDIA LECTERN |
| 10 | 1 | -50" | AV CONNECTION PLATE |
| 11 | 1 | 52 17/32" | PROJECTOR |
| 13 | 9 | 59 1/2" | 6.5" CEILING SPEAKER |
| 15 | 2 | -38" | OWNER FURNISHED MONITOR |
| 18 | 4 | 22" | 12X PTZ CAMERA |
| 20 | 1 | -38" | PTZ CAMERA CONTROLLER |
| 56 | 1 | 0" | 44RU EQUIPMENT RACK |

ALL ELEVATION DIMENSIONS ARE FROM FINISHED FLOOR TO BOTTOM OF DEVICE UNLESS OTHERWISE NOTED.

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PROJECT TITLE:

# ALTADENA MAIN LIBRARY

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| PROJECT NO. | 2111010 |
| DATE: | 10/11/2023 |

SHEET TITLE:

## COMMUNITY ROOM SECTIONS AND ELEVATIONS

SCALE: 1/2" = 1'-0"

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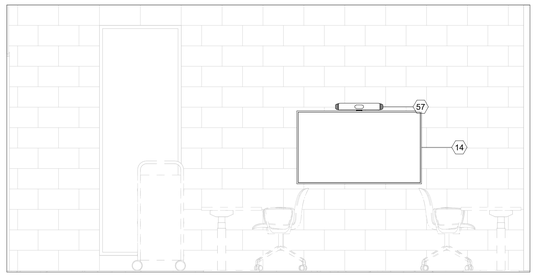


1 OPEN WORK AREA - WEST 2
1/2" = 1'-0"

| 6 - AV | | |
|---|---|---|
| TYPE | DETAIL | SHEET |
| KEY PLAN | 1 | AV102 |
| ENLARGED PLAN | | AV206 |
| ELEVATION | | AV306 |

| 6 - AV EQUIPMENT | | | |
|---|---|---|---|
| ID | COUNT | AFF | DESCRIPTION |
| 14 | 1 | 34" | 55" DISPLAY |
| 70 | 1 | 51" | MEDIUM TILT MICRO-ADJUSTABLE WALL DISPLAY MOUNT |

ALL ELEVATION DIMENSIONS ARE FROM FINISHED FLOOR TO BOTTOM OF DEVICE UNLESS OTHERWISE NOTED.

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PROJECT TITLE:

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| PROJECT NO. | 2111010 |
| DATE: | 10/11/2023 |

SHEET TITLE:

## OPEN WORK AREA SECTIONS AND ELEVATIONS

SCALE: 1/2" = 1'-0"

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AV306

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| AV INFRASTRUCTURE SHEET SET | |
|---|---|
| Sheet Number | Sheet Name |
| 0 - LEGEND | |
| EAV000 | LEGEND |
| 1 - KEY PLANS | |
| EAV101 | FLOOR PLAN - LOWER LEVEL - AV INFRASTRUCTURE |
| EAV102 | FLOOR PLAN - MAIN LEVEL - AV INFRASTRUCTURE |
| EAV101A | FLOOR PLAN - LOWER LEVEL - ADD ALTS - AV INFRASTRUCTURE |
| 20-ENLARGED | |
| EAV201 | TELE MEETING ROOM ENLARGED PLANS |
| EAV202 | STAFF MEETING ROOM ENLARGED PLANS |
| EAV204 | GAMING ROOM ENLARGED PLANS |
| EAV205 | COMMUNITY ROOM ENLARGED PLANS |
| EAV203 | DIGITAL SIGNAGE ENLARGED PLANS |
| EAV206 | OPEN WORK AREA ENLARGED PLANS |
| 30-SECTIONS AND ELEVATIONS | |
| EAV301 | TELE MEETING ROOM SECTIONS AND ELEVATIONS |
| EAV302 | STAFF MEETING ROOM SECTIONS AND ELEVATIONS |
| EAV303 | DIGITAL SIGNAGE SECTIONS AND ELEVATIONS |
| EAV304 | GAMING ROOM SECTIONS AND ELEVATIONS |
| EAV305 | COMMUNITY ROOM SECTIONS AND ELEVATIONS |
| EAV306 | OPEN WORK AREA SECTIONS AND ELEVATIONS |

| EXAMPLE SHEET SET | | |
|---|---|---|
| Sheet Number | Sheet Name | |
| 0 - LEGEND | | |
| 000 | LEGEND | 0 |
| 1 - KEY PLANS | | |
| 101 | KEY PLANS - LEVEL 01 | 1 |
| 102 | KEY PLANS - LEVEL 02 | |
| 2 - ENLARGEMENTS | | |
| 201 | ENLARGED PLANS - SYSTEM 01 | 2 |
| 202 | ENLARGED PLANS - SYSTEM 02 | |
| 3 - ELEVATIONS AND SECTIONS | | |
| 301 | ELEVATIONS AND SECTIONS - SYSTEM 01 | 3 |
| 302 | ELEVATIONS AND SECTIONS - SYSTEM 02 | |
| 4 - LINE DIAGRAMS | | |
| 401 | LINE DIAGRAMS - SYSTEM 01 | 4 |
| 402 | LINE DIAGRAMS - SYSTEM 02 | |
| 5 - RACK ELEVATIONS | | |
| 501 | RACK ELEVATIONS | 5 |
| 6 - CUSTOM PLATES | | |
| 601 | CUSTOM PLATES | 6 |

| SHEET LIST NAVIGATION | |
|---|---|
| ID | DESCRIPTION |
| 0 | SHEET LIST AND DRAWING SYMBOL LEGENDS |
| 1 | OVERALL KEY PLANS INDICATING SYSTEM LOCATIONS - SHEET NUMBER CORRESPONDS WITH LEVEL |
| 2 | ENLARGED PLANS PER SYSTEM - SHEET NUMBER CORRESPONDS TO SYSTEM ID |
| 3 | ELEVATIONS AND SECTIONS PER SYSTEM - SHEET NUMBER CORRESPONDS TO SYSTEM ID |
| 4 | LINE DIAGRAMS PER SYSTEM - SHEET NUMBER CORRESPONDS TO SYSTEM ID (AV ONLY) |
| 5 | AV EQUIPMENT RACK ELEVATIONS (AV ONLY) |
| 6 | CUSTOM PLATES AND METAL WORK (AV ONLY) |

| AV INFRASTRUCTURE ADDITIONAL INFORMATION | | | |
|---|---|---|---|
| MANUFACTURER | MODEL | DESCRIPTION | ADDITIONAL INFORMATION |
| | | | |
| LEGRAND | 8ATC | FLOOR BOX | PROVIDE TWO (2) 68REC AND A TOTAL OF THREE OF THE FOLLOWING:<br>ONE (1) 175CHA-LJB FOR EACH .75" CONDUIT REQUIRED<br>ONE (1) 1100CHA FOR EACH 1" CONDUIT REQUIRED<br>ONE (1) 1125CHA FOR EACH 1.25" CONDUIT REQUIRED<br>ONE (1) 1150CHA FOR EACH 1.5" CONDUIT REQUIRED (TAKES TWO SLOTS)<br>ONE (1) 22CHA FOR EACH 2" CONDUIT REQUIRED (TAKES TWO SLOTS)<br>1BLH AS REQUIRED TO FILL REMAINING SLOTS |
| N/A | PASS-THRU STUB | CEILING PATHWAY | |

| | |
|---|---|
| | THIS SYMBOL DESIGNATES AN AV ENABLED SPACE. THE NUMBER INDICATES THE ASSOCIATED SYSTEM ID. THE ARROW INDICATES ROOM FOCUS OR PRIMARY USER ENGAGEMENT DIRECTION. |

| AV INFRASTRUCTURE SYMBOLS | |
|---|---|
| | DESCRIPTION |
| | |
| | CEILING PATHWAY |
| | FLOOR BOX |
| | WALL BOX |

SEE 200 SERIES SHEETS AND SCHEDULES

| INFRASTRUCTURE NOTES | |
|---|---|
| ID | Note |
| (1) | ALL ELEVATION DIMENSIONS ARE MEASURED FROM FINISHED FLOOR TO CENTER OF BOX. ALL INDICATIONS OF 18" AFF ARE INTENDED TO BE PROJECT RECEPTACLE HEIGHT. |
| (2) | ALL STUBS ACCESSABLE TO ABOVE FINISHED CEILING UNLESS OTHERWISE NOTED. |
| (3) | PROVIDE CABLE TRAY AT 7'6" AFF ABOVE ALL AV EQUIPMENT RACKS GREATER THAN 37RU. TROUGH OR STUBS DIRECTLY OVER SINGLE RACK AGAINST WALL WILL BE ACCEPTABLE. |

| CONDUIT INSTALLATION NOTES | |
|---|---|
| ID | ASSOCIATED WITH DIVISION 26 |
| | THE RACEWAY SYSTEM FOR AV CABLE SHALL FOLLOW THE NEC AND ALL LOCAL CODES GOVERNING THIS PROJECT. ADDITIONAL REQUIREMENTS ARE AS FOLLOWS: |
| 1 | ALL RACEWAY SHOWN IN THESE "EAV" DRAWINGS IS FOR AV CABLE, AND IS IN ADDITION TO ANY CONDUIT SHOWN ON ANY OTHER DRAWINGS. |
| 2 | ROUTING OF CONDUIT SHOWN FOR DESIGN INTENT ONLY. COORDINATE EXACT ROUTE BASED ON FIELD CONDITIONS. |
| 3 | ALL CONDUIT CONNECTORS SHALL BE FURNISHED WITH NYLON BUSHINGS AND CHASE NIPPLES TO PREVENT DAMAGE TO CABLES FROM BURRED OR UNEVENLY CUT CONDUIT. |
| 4 | KEEP 90° BENDS TO A MINIMUM. THE CONDUIT SYSTEM SHALL NOT HAVE MORE THAN THREE 90° BENDS OR THEIR EQUIVALENT (270°) BETWEEN PULL BOXES. |
| 5 | ALL PULL BOXES AND OUTLET BOXES SHALL BE AT LEAST 3.5" DEEP. |
| 6 | INSTALL NYLON PULL STRINGS IN ALL CONDUITS. |
| 7 | CAULK OR OTHERWISE SEAL ALL PENETRATIONS THROUGH ACOUSTICAL PARTITIONS AND BARRIERS WITH ACOUSTICAL SEALANT. SEE DIV. 7 SEALANT SECTION. |
| 8 | ALL AV RELATED JUNCTION BOXES AND STUB OUTS SHALL REMAIN ACCESSIBLE AT ALL TIMES. |
| 9 | THE STANDARD SIZE FOR ALL AV CONDUIT SHALL BE 0.75" UNLESS OTHERWISE NOTED. ALL EXPOSED CONDUIT SHALL BE ROUTED PARALLEL OR PERPENDICULAR TO STRUCTURE ABOVE. |
| 10 | WHERE CONDUIT CONNECTS CEILING SPEAKER ENCLOSURES, THE ENCLOSURES, AND ASSOCIATED SUPPORT HARDWARE SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. |
| 11 | CEILING SPEAKERS ARE SHOWN FOR ZONING AND CONDUIT SIZING AND ROUTING ONLY. REFERENCE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT CEILING SPEAKER LOCATIONS. |
| 12 | ALL CONDUIT SHALL BE (EMT) ELECTRICAL METAL TUBING OR (IMC) INTERMEDIATE METALLIC CONDUIT UNLESS OTHERWISE NOTED. |
| 13 | PVC IS UNACCEPTABLE UNLESS OTHERWISE NOTED. |
| 14 | CONDUIT RUNS NOT TO EXCEED 90M FROM END TO END ON ANY PATHWAY. |
| 15 | PROVIDE UNOBSTRUCTED PATH FROM ALL AV SPACES TO IDF/AV RACK ROOM. |


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PROJECT TITLE:

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LEGEND

SCALE:


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PROJECT TITLE:

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|---|---|
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SHEET TITLE:

## FLOOR PLAN - LOWER LEVEL - AV INFRASTRUCTURE

SCALE: 1/8" = 1'-0"

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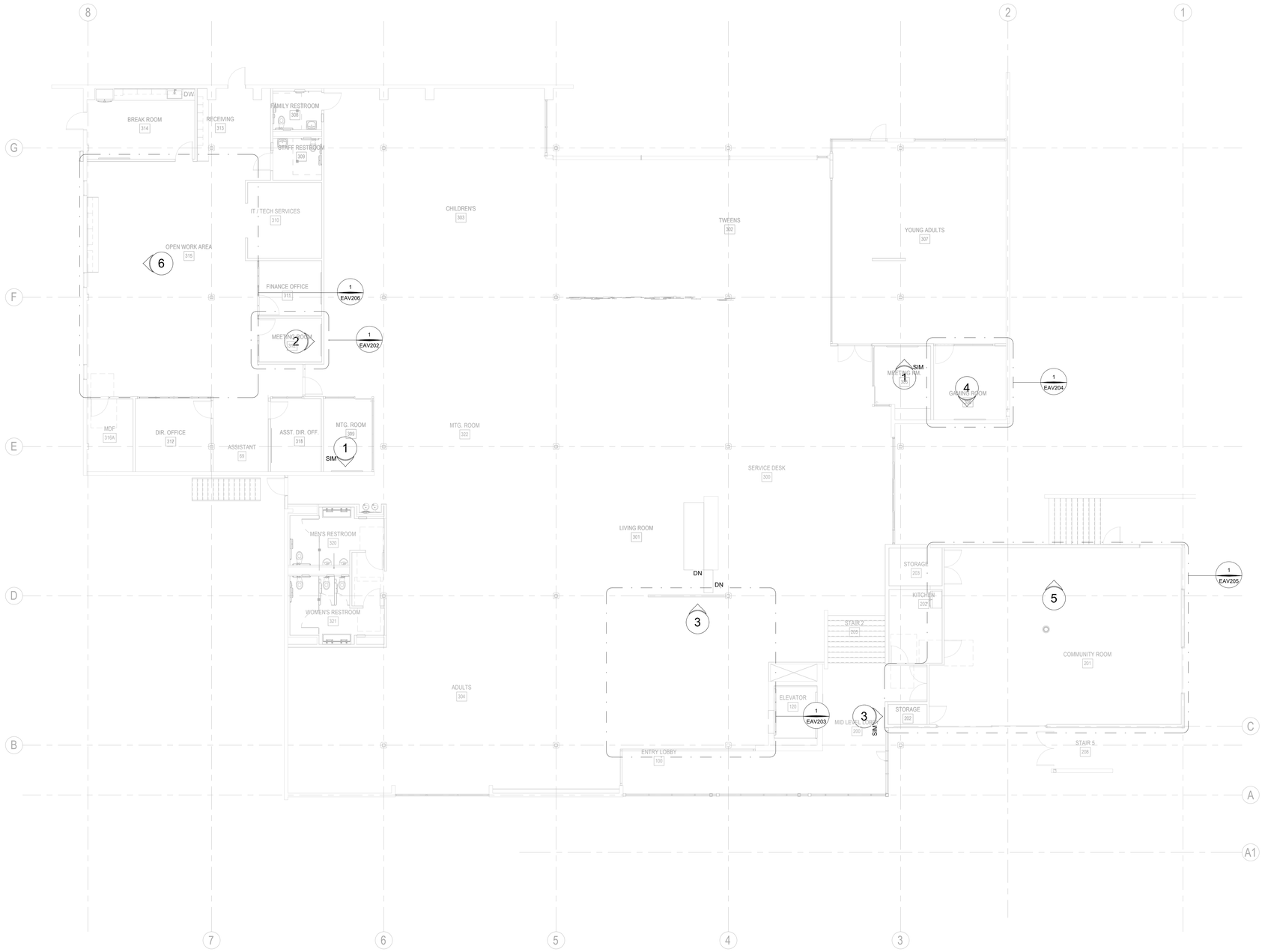



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|---|---|
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SHEET TITLE:

## FLOOR PLAN - MAIN LEVEL - AV INFRASTRUCTURE

SCALE: 1/8" = 1'-0"


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|---|---|
| PROJECT NO. | 2111010 |
| DATE: | 10/11/2023 |

SHEET TITLE:

## FLOOR PLAN - LOWER LEVEL - ADD ALTS - AV INFRASTRUCTURE

SCALE: 1/8" = 1'-0"


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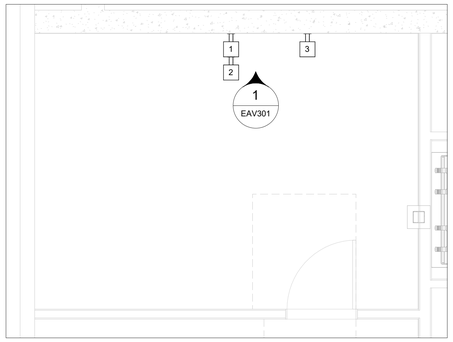
EAV101A

10/11/2023 2:20:51 PM




1 TELE MEETING ROOM
3/8" = 1'-0"

| 1 - EAV | | |
|---|---|---|
| TYPE | DETAIL | SHEET |
| KEY PLAN | 1 | EAV101 |
| KEY PLAN | 1 | EAV102 |
| ENLARGED PLAN | 1 | EAV201 |
| ELEVATION | | EAV301 |

| 1 - AV INFRASTRUCTURE | | | | |
|---|---|---|---|---|
| ID | AFF (1) | MAKE | MODEL | RACEWAYS |
| 1 | 32" | RACO | 689 | ONE 1 1/4" TO BOX |
| 2 | 52" | FSR INC | PWB-FR-450 WHT | |
| 3 | 45" | RACO | 689 | ONE 1" TO BOX |

SEE EAV000 FOR PROJECT NOTES AND DEFINITIONS.

ANDERSON BRULÉ ARCHITECTS

325 South First Street, 4th Floor
San Jose, California 95113
408.298.1885 | www.aba-arch.com

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PROJECT TITLE:

# ALTADENA MAIN LIBRARY

600 E MARIPOSA STREET
ALTADENA, CA 91001

| | |
|---|---|
| PROJECT NO. | 2111010 |
| DATE: | 10/11/2023 |

SHEET TITLE:

## TELE MEETING ROOM ENLARGED PLANS

SCALE: 3/8" = 1'-0"

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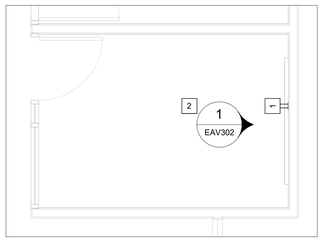
EAV201

10/11/2023 2:20:52 PM




1 STAFF MEETING ROOM
3/8" = 1'-0"

| 2 - EAV | | |
|---|---|---|
| TYPE | DETAIL | SHEET |
| KEY PLAN | 1 | EAV101 |
| KEY PLAN | 1 | EAV102 |
| ENLARGED PLAN | 1 | EAV202 |
| ELEVATION | | EAV302 |

| 2 - AV INFRASTRUCTURE | | | | |
|---|---|---|---|---|
| ID | AFF (1) | MAKE | MODEL | RACEWAYS |
| 1 | 44" | FSR INC | PWB-FR-450 WHT | |
| 2 | 0" | LEGRAND | 8ATC | ONE 1" TO BOX |

SEE EAV000 FOR PROJECT NOTES AND DEFINITIONS.

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PROJECT TITLE:

# ALTADENA MAIN LIBRARY

600 E MARIPOSA STREET
ALTADENA, CA 91001

| | |
|---|---|
| PROJECT NO. | 2111010 |
| DATE: | 10/11/2023 |

SHEET TITLE:

## STAFF MEETING ROOM ENLARGED PLANS

SCALE: 3/8" = 1'-0"

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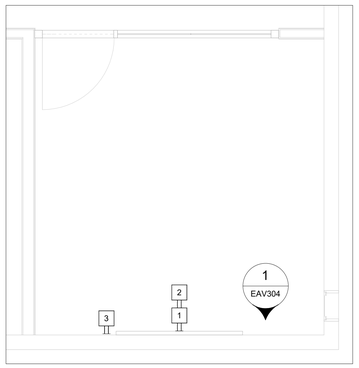
EAV202

10/11/2023 2:20:54 PM




1 GAMING ROOM
3/8" = 1'-0"

| 4 - EAV | | |
|---|---|---|
| TYPE | DETAIL | SHEET |
| KEY PLAN | 1 | EAV102 |
| ENLARGED PLAN | 1 | EAV204 |
| ENLARGED RCP | 2 | EAV204 |
| ELEVATION | | EAV304 |

| 4 - AV INFRASTRUCTURE | | | | |
|---|---|---|---|---|
| ID | AFF (1) | MAKE | MODEL | RACEWAYS |
| 1 | 18" | RACO | 985 | ONE 1 1/4" TO BOX |
| 2 | 54" | FSR INC | PWB-FR-450 WHT | |
| 3 | 45" | RACO | 689 | ONE 1" TO BOX |

SEE EAV000 FOR PROJECT NOTES AND DEFINITIONS.

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PROJECT TITLE:

# ALTADENA MAIN LIBRARY

600 E MARIPOSA STREET
ALTADENA, CA 91001

| | |
|---|---|
| PROJECT NO. | 2111010 |
| DATE: | 10/11/2023 |

SHEET TITLE:

## GAMING ROOM ENLARGED PLANS

SCALE: 3/8" = 1'-0"

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EAV204

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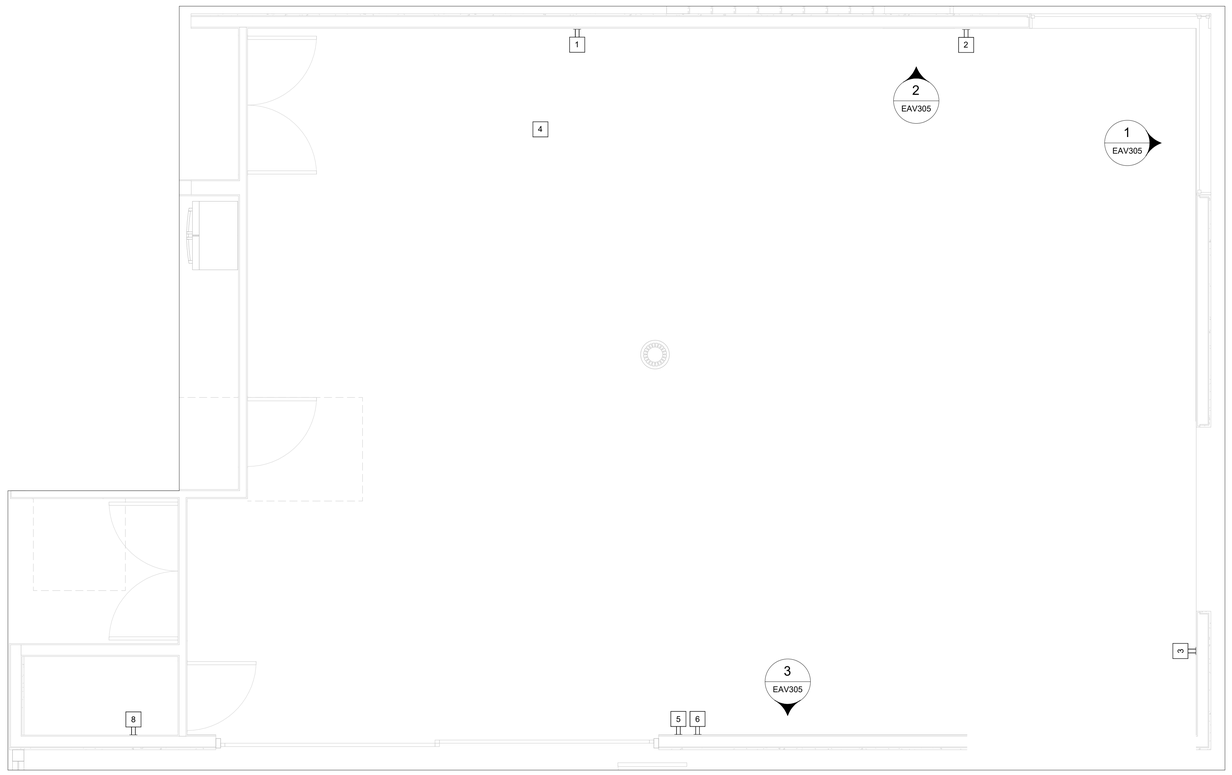
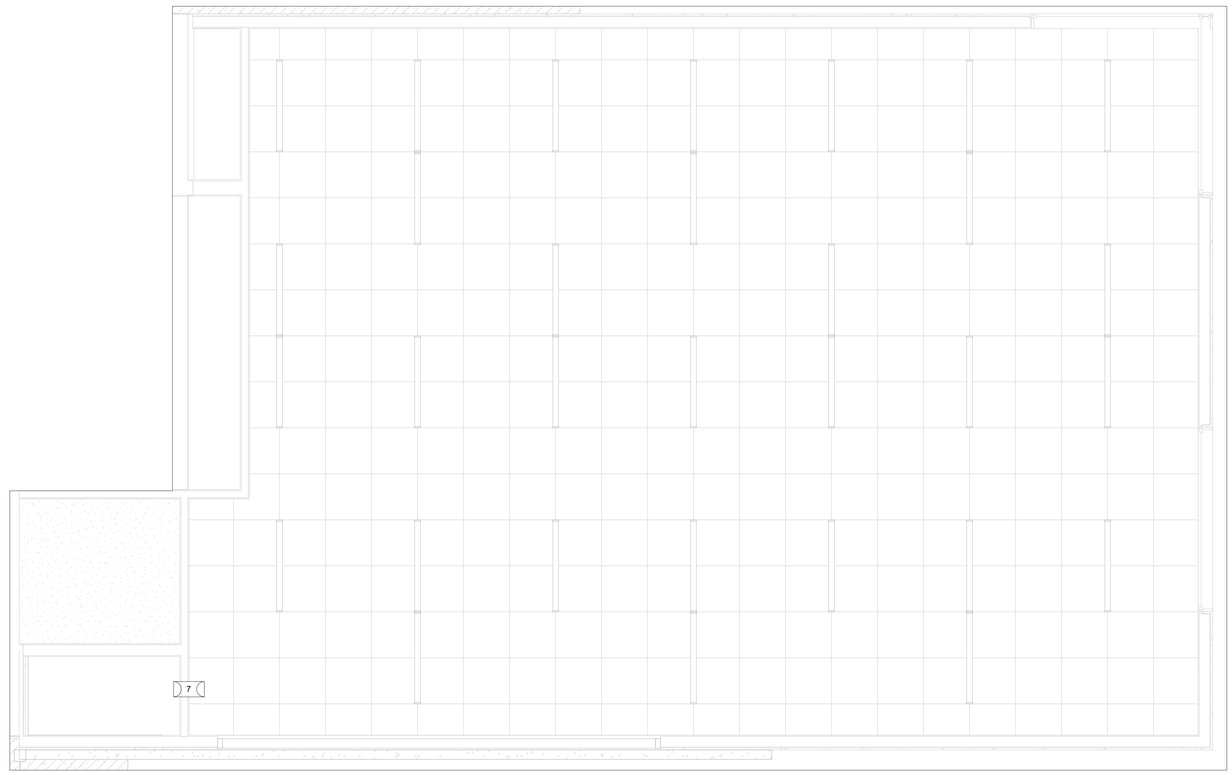



1 COMMUNITY ROOM
3/8" = 1'-0"




2 COMMUNITY ROOM
3/8" = 1'-0"

| 5 - EAV | | |
|---|---|---|
| TYPE | DETAIL | SHEET |
| KEY PLAN | 1 | EAV102 |
| ENLARGED PLAN | 1 | EAV205 |
| ENLARGED RCP | 2 | EAV205 |
| ELEVATION | 1 | EAV305 |
| ELEVATION | 2 | EAV305 |
| ELEVATION | 3 | EAV305 |

| 5 - AV INFRASTRUCTURE | | | | |
|---|---|---|---|---|
| ID | AFF (1) | MAKE | MODEL | RACEWAYS |
| 1 | 24" | RACO | 985 | ONE 1" STUB |
| 2 | 24" | RACO | 985 | ONE 1" STUB |
| 3 | -50" | RACO | 985 | ONE 1" STUB |
| 4 | -68" | LEGRAND | 8ATC | ONE 1" STUB |
| 5 | 24" | RACO | 985 | ONE 1" STUB |
| 6 | 24" | RACO | 985 | ONE 1" STUB |
| 7 | 108" | N/A | PASS-THRU STUB | THREE 1" STUB |
| 8 | 28" | | TROUGH | THREE 1" STUB |

SEE EAV000 FOR PROJECT NOTES AND DEFINITIONS.

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PROJECT TITLE:

# ALTADENA MAIN LIBRARY

600 E MARIPOSA STREET
ALTADENA, CA 91001

| | |
|---|---|
| PROJECT NO. | 2111010 |
| DATE: | 10/11/2023 |

SHEET TITLE:

## COMMUNITY ROOM ENLARGED PLANS

SCALE: 3/8" = 1'-0"

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EAV205

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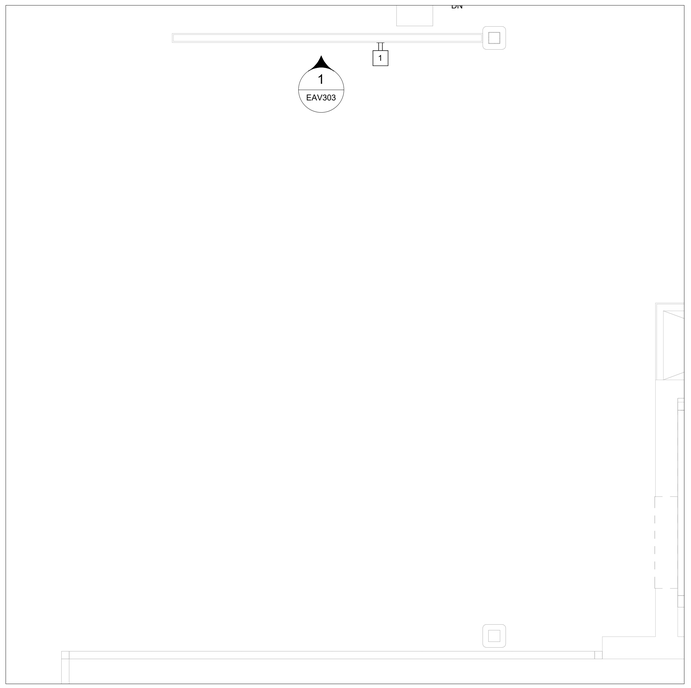


1 DIGITAL SIGNAGE
3/8" = 1'-0"

| 3 - EAV | | |
|---|---|---|
| TYPE | DETAIL | SHEET |
| KEY PLAN | 1 | EAV102 |
| ENLARGED PLAN | 1 | EAV203 |
| ELEVATION | | EAV303 |

| 3 - AV INFRASTRUCTURE | | | | |
|---|---|---|---|---|
| ID | AFF (1) | MAKE | MODEL | RACEWAYS |
| 1 | 72" | FSR INC | PWB-FR-450 WHT | |

SEE EAV000 FOR PROJECT NOTES AND DEFINITIONS.

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PROJECT TITLE:

# ALTADENA MAIN LIBRARY

600 E MARIPOSA STREET
ALTADENA, CA 91001

| | |
|---|---|
| PROJECT NO. | 2111010 |
| DATE: | 10/11/2023 |

SHEET TITLE:

## DIGITAL SIGNAGE ENLARGED PLANS

SCALE: 3/8" = 1'-0"

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EAV203

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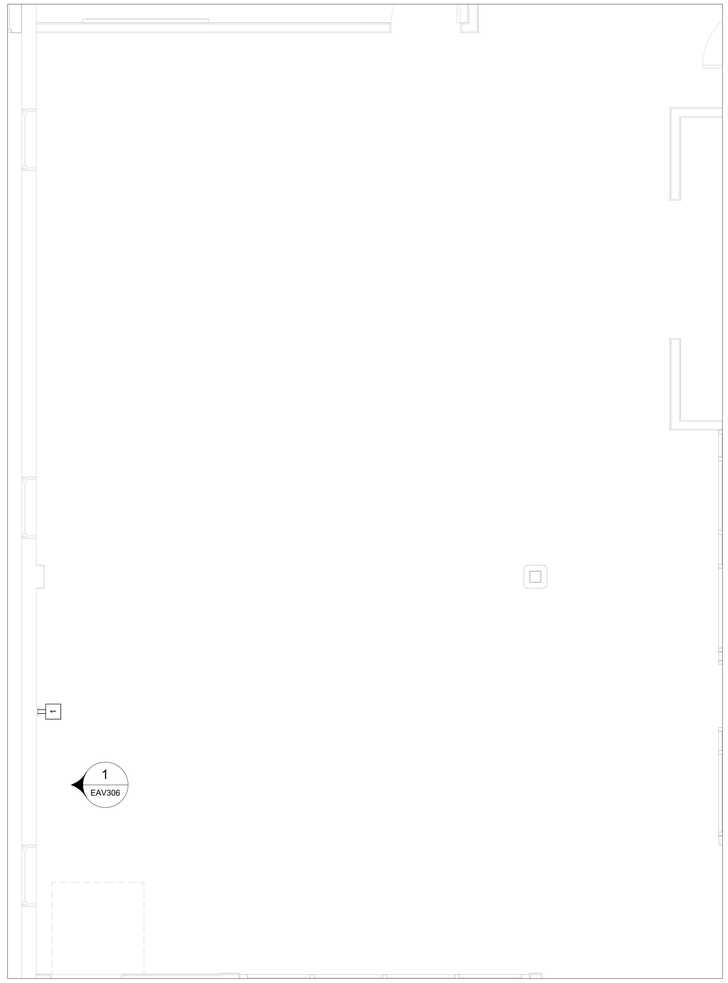


1 OPEN WORK AREA
3/8" = 1'-0"

| 6 - EAV | | |
|---|---|---|
| TYPE | DETAIL | SHEET |
| KEY PLAN | 1 | EAV102 |
| ENLARGED PLAN | | EAV206 |
| ELEVATION | | EAV306 |

| 6 - AV INFRASTRUCTURE | | | | |
|---|---|---|---|---|
| ID | AFF (1) | MAKE | MODEL | RACEWAYS |
| 1 | 51" | FSR INC | PWB-FR-450 WHT | |

SEE EAV000 FOR PROJECT NOTES AND DEFINITIONS.

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PROJECT TITLE:

# ALTADENA MAIN LIBRARY

600 E MARIPOSA STREET
ALTADENA, CA 91001

| | |
|---|---|
| PROJECT NO. | 2111010 |
| DATE: | 10/11/2023 |

SHEET TITLE:

## OPEN WORK AREA ENLARGED PLANS

SCALE: 3/8" = 1'-0"

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EAV206

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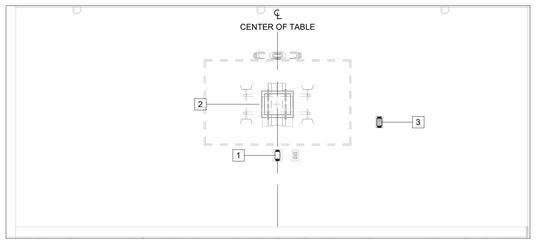


1 TELE MEETING ROOM - NORTH
1/2" = 1'-0"

| 1 - EAV | | |
|---|---|---|
| TYPE | DETAIL | SHEET |
| KEY PLAN | 1 | EAV101 |
| KEY PLAN | 1 | EAV102 |
| ENLARGED PLAN | 1 | EAV201 |
| ELEVATION | | EAV301 |

| 1 - AV INFRASTRUCTURE | | | | |
|---|---|---|---|---|
| ID | AFF (1) | MAKE | MODEL | RACEWAYS |
| 1 | 32" | RACO | 689 | ONE 1 1/4" TO BOX |
| 2 | 52" | FSR INC | PWB-FR-450 WHT | |
| 3 | 45" | RACO | 689 | ONE 1" TO BOX |

SEE EAV000 FOR PROJECT NOTES AND DEFINITIONS.

10/11/2023 2:21:05 PM

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|---|---|---|
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PROJECT TITLE:

# ALTADENA MAIN LIBRARY

600 E MARIPOSA STREET
ALTADENA, CA 91001

PROJECT NO. 2111010
DATE: 10/11/2023

SHEET TITLE:

## TELE MEETING ROOM SECTIONS AND ELEVATIONS

SCALE: 1/2" = 1'-0"

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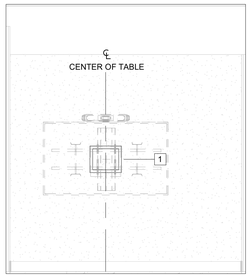
EAV301




1 STAFF MEETING ROOM - EAST
1/2" = 1'-0"

| 2 - EAV | | |
|---|---|---|
| TYPE | DETAIL | SHEET |
| KEY PLAN | 1 | EAV101 |
| KEY PLAN | 1 | EAV102 |
| ENLARGED PLAN | 1 | EAV202 |
| ELEVATION | | EAV302 |

| 2 - AV INFRASTRUCTURE | | | | |
|---|---|---|---|---|
| ID | AFF (1) | MAKE | MODEL | RACEWAYS |
| 1 | 44" | FSR INC | PWB-FR-450 WHT | |
| 2 | 0" | LEGRAND | 8ATC | ONE 1" TO BOX |

SEE EAV000 FOR PROJECT NOTES AND DEFINITIONS.

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PROJECT TITLE:

# ALTADENA MAIN LIBRARY

600 E MARIPOSA STREET
ALTADENA, CA 91001

PROJECT NO. 2111010

DATE: 10/11/2023

SHEET TITLE:

## STAFF MEETING ROOM SECTIONS AND ELEVATIONS

SCALE: 1/2" = 1'-0"

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EAV302

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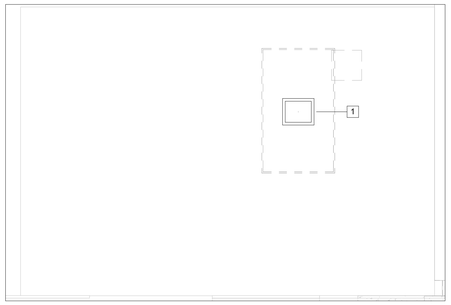


1 DIGITAL SIGNAGE - NORTH
1/2" = 1'-0"

| 3 - EAV | | |
|---|---|---|
| TYPE | DETAIL | SHEET |
| KEY PLAN | 1 | EAV102 |
| ENLARGED PLAN | 1 | EAV203 |
| ELEVATION | | EAV303 |

| 3 - AV INFRASTRUCTURE | | | | |
|---|---|---|---|---|
| ID | AFF (1) | MAKE | MODEL | RACEWAYS |
| 1 | 72" | FSR INC | PWB-FR-450 WHT | |

SEE EAV000 FOR PROJECT NOTES AND DEFINITIONS.

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PROJECT TITLE:

# ALTADENA MAIN LIBRARY

600 E MARIPOSA STREET
ALTADENA, CA 91001

| | |
|---|---|
| PROJECT NO. | 2111010 |
| DATE: | 10/11/2023 |

SHEET TITLE:

## DIGITAL SIGNAGE SECTIONS AND ELEVATIONS

SCALE: 1/2" = 1'-0"

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EAV303

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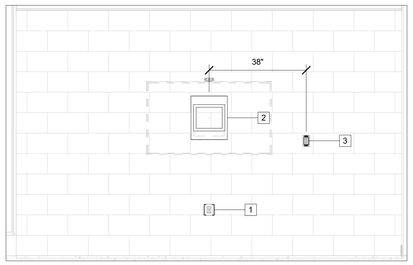


1 GAMING ROOM - SOUTH
1/2" = 1'-0"

| 4 - EAV | | |
|---|---|---|
| TYPE | DETAIL | SHEET |
| KEY PLAN | 1 | EAV102 |
| ENLARGED PLAN | 1 | EAV204 |
| ENLARGED RCP | 2 | EAV204 |
| ELEVATION | | EAV304 |

| 4 - AV INFRASTRUCTURE | | | | |
|---|---|---|---|---|
| ID | AFF (1) | MAKE | MODEL | RACEWAYS |
| 1 | 18" | RACO | 985 | ONE 1 1/4" TO BOX |
| 2 | 54" | FSR INC | PWB-FR-450 WHT | |
| 3 | 45" | RACO | 689 | ONE 1" TO BOX |

SEE EAV000 FOR PROJECT NOTES AND DEFINITIONS.

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|---|---|---|
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PROJECT TITLE:

# ALTADENA MAIN LIBRARY

600 E MARIPOSA STREET
ALTADENA, CA 91001

PROJECT NO. 2111010

DATE: 10/11/2023

SHEET TITLE:

## GAMING ROOM SECTIONS AND ELEVATIONS

SCALE: 1/2" = 1'-0"

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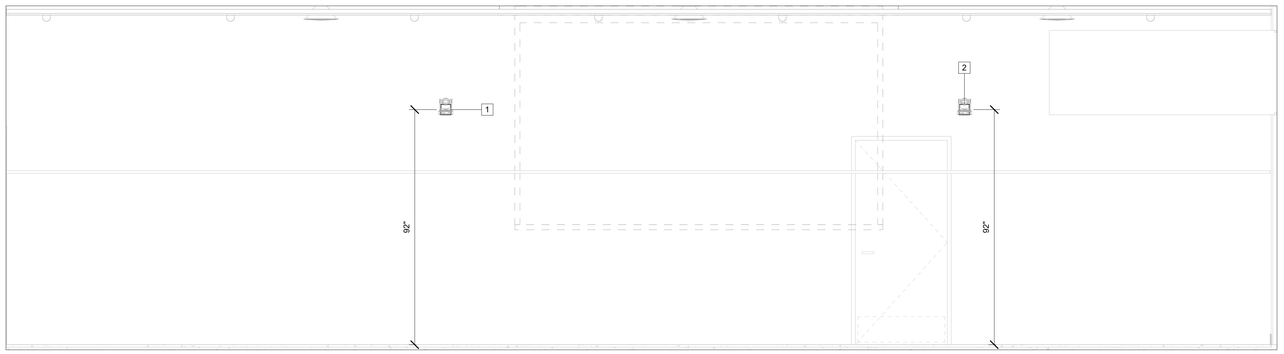
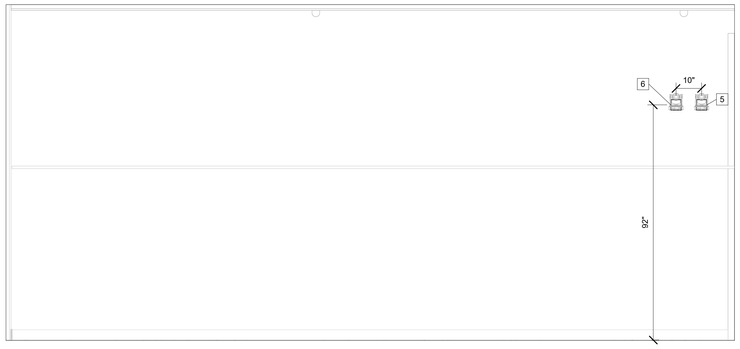
EAV304




1 COMMUNITY ROOM - EAST
1/2" = 1'-0"




2 COMMUNITY ROOM - NORTH
1/2" = 1'-0"




3 COMMUNITY ROOM - SOUTH
1/2" = 1'-0"

| 5 - EAV | | |
|---|---|---|
| TYPE | DETAIL | SHEET |
| KEY PLAN | 1 | EAV102 |
| ENLARGED PLAN | 1 | EAV205 |
| ENLARGED RCP | 2 | EAV205 |
| ELEVATION | 1 | EAV305 |
| ELEVATION | 2 | EAV305 |
| ELEVATION | 3 | EAV305 |

| 5 - AV INFRASTRUCTURE | | | | |
|---|---|---|---|---|
| ID | AFF (1) | MAKE | MODEL | RACEWAYS |
| 1 | 24" | RACO | 985 | ONE 1" STUB |
| 2 | 24" | RACO | 985 | ONE 1" STUB |
| 3 | -50" | RACO | 985 | ONE 1" STUB |
| 4 | -68" | LEGRAND | 8ATC | ONE 1" STUB |
| 5 | 24" | RACO | 985 | ONE 1" STUB |
| 6 | 24" | RACO | 985 | ONE 1" STUB |
| 7 | 108" | N/A | PASS-THRU STUB | THREE 1" STUB |
| 8 | 28" | | TROUGH | THREE 1" STUB |

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PROJECT TITLE:

# ALTADENA MAIN LIBRARY

600 E MARIPOSA STREET
ALTADENA, CA 91001

| | |
|---|---|
| PROJECT NO. | 2111010 |
| DATE: | 10/11/2023 |

SHEET TITLE:

## COMMUNITY ROOM SECTIONS AND ELEVATIONS

SCALE: 1/2" = 1'-0"

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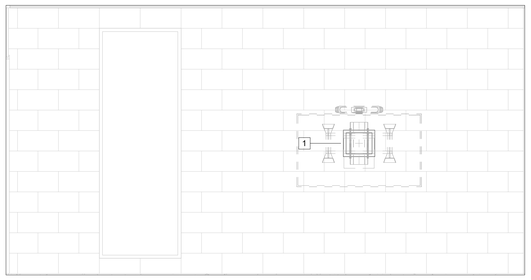
EAV305

10/11/2023 2:21:09 PM




1 OPEN WORK AREA - WEST 2
1/2" = 1'-0"

| 6 - EAV | | |
|---|---|---|
| TYPE | DETAIL | SHEET |
| KEY PLAN | 1 | EAV102 |
| ENLARGED PLAN | | EAV206 |
| ELEVATION | | EAV306 |

| 6 - AV INFRASTRUCTURE | | | | |
|---|---|---|---|---|
| ID | AFF (1) | MAKE | MODEL | RACEWAYS |
| 1 | 51" | FSR INC | PWB-FR-450 WHT | |

SEE EAV000 FOR PROJECT NOTES AND DEFINITIONS.

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PROJECT TITLE:

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| | |
|---|---|
| PROJECT NO. | 2111010 |
| DATE: | 10/11/2023 |

SHEET TITLE:

## OPEN WORK AREA SECTIONS AND ELEVATIONS

SCALE: 1/2" = 1'-0"

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EAV306

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# TELECOMMUNICATION SHEET SET

| SHEET NUMBER | SHEET TITLE |
|---|---|
| 0 - LEGEND | |
| T000 | TELECOM SYMBOLS AND NOTES |
| T001 | TELECOM STANDARDS (1 OF 2) |
| T002 | TELECOM STANDARDS (2 OF 2) |
| 10 - KEY PLANS | |
| T100 | TELECOM SITE PLAN |
| T100A | TELECOM SITE PLAN - ADD ALTS |
| T101 | TELECOM LOWER LEVEL FLOOR PLAN |
| T101A | TELECOM LOWER LEVEL FLOOR PLAN - ADD ALTS |
| T102 | TELECOM MAIN LEVEL FLOOR PLAN |
| T102A | TELECOM MAIN LEVEL FLOOR PLAN - ADD ALTS |
| 20 - ENLARGEMENTS | |
| T201 | TELECOM ENLARGED PLANS |
| T201A | TELECOM ENLARGED PLANS - ADD ALTS |
| 30 - RACK ELEVATIONS | |
| T301 | TELECOM RACK ELEVATIONS |
| T301A | TELECOM RACK ELEVATIONS - ADD ALTS |
| 40 - RISER DIAGRAMS | |
| T401A | TELECOM RISER DIAGRAMS - ADD ALTS |

## SEPARATION DISTANCE BETWEEN POWER CABLES AND DATA CABLES

| CONDITION | MINIMUM SEPARATION DISTANCE | | |
|---|---|---|---|
| | < 2 kVA | 2-5 kVA | > 5kVA |
| UNSHIELDED POWER LINES OR ELECTRICAL EQUIPMENT IN PROXIMITY TO OPEN OR NONMETAL PATHWAYS. | 5" | 12" | 24" |
| UNSHIELDED POWER LINES OR ELECTRICAL EQUIPMENT IN PROXIMITY TO A GROUNDED METAL CONDUIT PATHWAY. | 2.5" | 6" | 12" |
| POWER LINES ENCLOSED IN A GROUNDED METAL CONDUIT (OR EQUIVALENT SHIELDING) IN PROXIMITY TO A GROUNDED METAL CONDUIT PATHWAY. | | 3" | 6" |
| ELECTRICAL MOTORS AND TRANSFORMERS. | | | 48" |

## SEPARATION DISTANCE BETWEEN DATA CABLES AND SPECIFIC EMI SOURCES

| SOURCE OF DISTURBANCE | MINIMUM SEPARATION DISTANCE |
|---|---|
| FLUORESCENT LAMPS | 5" |
| NEON LAMPS | 5" |
| MERCURY VAPOUR LAMPS | 5" |
| HIGH-INTENSITY DISCHARGE LAMPS | 5" |
| ARC WELDERS | 31" |
| FREQUENCY INDUCTION HEATING | 39" |

## 50' DISTANCE LIMIT RULE

A. IN NO CASE MUST A NON-LISTED OUTSIDE PLANT OR INCOMING SERVICE OUTDOOR RATED CABLE EXCEED 50 FEET FROM THE POINT OF ENTRANCE INTO ANY BUILDING. IF ON-SITE CONDITIONS RESULT IN A CASE WHERE THE CABLE EXCEEDS THE DISTANCE LIMIT THE CONTRACTOR MUST ADVISE A SOLUTION WITH THE PROJECT CONSULTANT. IN ALL CASES THE SOLUTION WOULD NEED TO INVOLVE EITHER TRANSITIONING FROM OUTDOOR NON-LISTED TO INDOOR LISTED CABLE VIA A SPLICE POINT (E.G. SPLICE CASE OR SPLICE ENCLOSURE FOR FIBER, PROTECTOR BLOCK FOR COPPER ETC.) OR THE ALTERNATIVE SHOULD BE TO ENCLOSE THE OUTDOOR RATED CABLE WITHIN INTERMEDIATE METAL CONDUIT (IMC) OR RIGID METAL CONDUIT (RMC) THAT IS PROPERLY SEALED AND BONDED TO A GROUNDING ELECTRODE. RETAINING THE OUTDOOR CABLE WITHIN CONDUIT SHOULD EFFECTIVELY EXTEND THE POINT OF ENTRANCE INTO THE BUILDING.

## OSP DETECTION TAPE INCLUSION

A. IN ORDER TO REDUCE THE CHANCE OF ACCIDENTAL DIG-UP OF OUTSIDE PLANT DUCTBANK ELEMENTS IN THE FUTURE, PROVIDE A DETECTABLE WARNING TAPE CONTAINING METALLIC TRACINGS ALONG THE DUCTBANK PATH AT 12" BELOW GRADE MINIMUM. COLOR OF THE DETECTABLE TAPE SHALL BE ORANGE OR WHICHEVER COLOR THE COMMON GROUND ALLIANCE (CGA) HAS CURRENTLY DETERMINED FOR TELEVISION AND COMMUNITY ANTENNA TELEVISION (CATV) CABLES.

## TELECOMMUNICATION SYMBOLS

| SYMBOL | DESCRIPTION |
|---|---|
| E | ELEVATOR PHONE OUTLET - PROVIDE ONE ANALOG VOICE DROP COMPLETE WITH CAT6A CABLE, CONNECTOR AND TERMINATION AS REQUIRED. ROUTE ONE 1.25" CONDUIT FROM ELEVATOR EQUIPMENT BOX TO ACCESSIBLE CEILING ON THE SAME FLOOR AS SHOWN UNLESS NOTED OTHERWISE. COORDINATE EXACT LOCATION WITH ELEVATOR VENDOR. |
| W | WALL PHONE OUTLET - PROVIDE ONE DROP COMPLETE WITH CAT6A CABLE, CONNECTOR AND TERMINATION AS REQUIRED. STUB ONE 1.25" CONDUIT FROM 5 SQUARE TELECOMMUNICATION OUTLET BOX WITH SINGLE GANG PLASTER RING TO ACCESSIBLE CEILING ON THE SAME FLOOR AS SHOWN. MOUNT AT 48" AFF UNLESS NOTED OTHERWISE. |
| | WALL STANDARD COMMUNICATION OUTLET - PROVIDE FOUR DATA DROPS COMPLETE WITH CAT6A CABLES, CONNECTORS AND TERMINATIONS AS REQUIRED. STUB ONE 1.25" CONDUIT FROM 5 SQUARE TELECOMMUNICATION OUTLET BOX WITH SINGLE GANG PLASTER RING TO ACCESSIBLE CEILING ON THE SAME FLOOR AS SHOWN. MOUNT AT PROJECT'S STANDARD RECEPTACLE HEIGHT UNLESS NOTED OTHERWISE. |
| | FLOOR STANDARD COMMUNICATION OUTLET - PROVIDE FOUR DATA DROPS COMPLETE WITH CAT6A CABLES, CONNECTORS AND TERMINATIONS AS REQUIRED. STUB ONE 1.25" CONDUIT TO ACCESSIBLE CEILING ON THE SAME FLOOR AS SHOWN UNLESS NOTED OTHERWISE. MOUNT IN ELECTRICAL FLOOR BOX UNLESS NOTED OTHERWISE. EXACT LOCATION TO BE COORDINATED BY ARCHITECT. |
| WAP | WIRELESS COMMUNICATION OUTLET - PROVIDE ONE DATA DROP COMPLETE WITH CAT6A CABLE, CONNECTOR AND TERMINATION AS REQUIRED. STUB ONE 1.25" CONDUIT FROM 5 SQUARE TELECOMMUNICATION OUTLET BOX WITH SINGLE GANG PLASTER RING TO ACCESSIBLE CEILING ON THE SAME FLOOR AS SHOWN UNLESS NOTED OTHERWISE. WIRELESS ACCESS POINT DEVICE IS OWNER FURNISHED CONTRACTOR INSTALLED. |
| WAP | WALL WIRELESS COMMUNICATION OUTLET - PROVIDE ONE DATA DROP COMPLETE WITH CAT6A CABLE, CONNECTOR AND TERMINATION AS REQUIRED. STUB ONE 1.25" CONDUIT FROM 5 SQUARE TELECOMMUNICATION OUTLET BOX WITH SINGLE GANG PLASTER RING TO ACCESSIBLE CEILING ON THE SAME FLOOR AS SHOWN UNLESS NOTED OTHERWISE. MOUNT AT 120" AFF UNLESS NOTED OTHERWISE. WIRELESS ACCESS POINT DEVICE IS OWNER FURNISHED CONTRACTOR INSTALLED. |
| XD | WALL DATA COMMUNICATION OUTLET - PROVIDE QUANTITY OF DROPS AS INDICATED BY SUBSCRIPT COMPLETE WITH CAT6A CABLES, CONNECTORS AND TERMINATIONS AS REQUIRED. STUB ONE 1.25" CONDUIT FROM 5 SQUARE TELECOMMUNICATION OUTLET BOX WITH SINGLE GANG PLASTER RING TO ACCESSIBLE CEILING ON THE SAME FLOOR AS SHOWN UNLESS NOTED OTHERWISE. MOUNT AT PROJECT'S STANDARD RECEPTACLE HEIGHT UNLESS NOTED OTHERWISE. |
| XD | FLOOR DATA COMMUNICATION OUTLET - PROVIDE QUANTITY OF DROPS AS INDICATED BY SUBSCRIPT COMPLETE WITH CAT6A CABLES, CONNECTORS AND TERMINATIONS AS REQUIRED. STUB ONE 1.25" CONDUIT TO ACCESSIBLE CEILING ON THE SAME FLOOR AS SHOWN UNLESS NOTED OTHERWISE. MOUNT IN ELECTRICAL FLOOR BOX UNLESS NOTED OTHERWISE. EXACT LOCATION TO BE COORDINATED BY ARCHITECT. |
| FP | DATA COMMUNICATION OUTLET FOR FLAT PANEL - PROVIDE TWO DATA DROPS COMPLETE WITH CAT6A CABLES, CONNECTORS AND TERMINATIONS AS REQUIRED. MOUNTED IN FLAT PANEL IN-WALL BACKBOX. SEE EAV DRAWINGS FOR INFORMATION OF THE FLAT PANEL IN-WALL BACKBOX. STUB ONE 1.25" CONDUIT TO ACCESSIBLE CEILING ON THE SAME FLOOR AS SHOWN UNLESS NOTED OTHERWISE. |
| FP | CEILING DATA COMMUNICATION OUTLET FOR FLAT PANEL DISPLAY- PROVIDE TWO DATA DROPS COMPLETE WITH CAT6A CABLES, CONNECTORS AND TERMINATIONS AS REQUIRED. STUB ONE 1.25" CONDUIT FROM 5 SQUARE TELECOMMUNICATION OUTLET BOX WITH SINGLE GANG PLASTER RING TO ACCESSIBLE CEILING ON THE SAME FLOOR AS SHOWN UNLESS NOTED OTHERWISE. |
| CP | DATA FOR AV ROOM CONTROL PANEL - PROVIDE ONE DATA DROP COMPLETE WITH CAT6A CABLE, CONNECTOR AND TERMINATION AS REQUIRED. NO FACEPLATE. STUB ONE 1" CONDUIT FROM AV BACKBOX TO ACCESSIBLE CEILING ON THE SAME FLOOR AS SHOWN. SEE EAV DRAWINGS FOR INFORMATION OF THE AV BACKBOX. |
| RS | DATA FOR AV ROOM SCHEDULING PANEL - PROVIDE ONE DATA DROP COMPLETE WITH CAT6A CABLE, CONNECTOR AND TERMINATION AS REQUIRED. NO FACEPLATE. STUB ONE 1" CONDUIT FROM AV BACKBOX TO ACCESSIBLE CEILING ON THE SAME FLOOR AS SHOWN. SEE EAV DRAWINGS FOR INFORMATION OF THE AV BACKBOX. |
| F | SYSTEM FURNITURE STANDARD COMMUNICATION OUTLET - PROVIDE FOUR DATA DROPS COMPLETE WITH CAT6A CABLES, CONNECTORS AND TERMINATIONS AS REQUIRED. COORDINATE WITH THE ARCHITECT AND FURNITURE CONSULTANT FOR MOUNTING HEIGHT. |
| P | CEILING DATA COMMUNICATION OUTLET FOR PROJECTOR - PROVIDE ONE DATA DROP COMPLETE WITH CAT6A CABLE, CONNECTOR AND TERMINATION AS REQUIRED. STUB ONE 1.25" CONDUIT FROM 5 SQUARE TELECOMMUNICATION OUTLET BOX WITH SINGLE GANG PLASTER RING TO ACCESSIBLE CEILING ON THE SAME FLOOR AS SHOWN UNLESS NOTED OTHERWISE. |
| FT1 | FURNITURE FEED POKE-THRU DEVICE. WIREMOLD 4FFATC SERIES WITH FURNITURE FEED COVER. PROVIDE ONE 1.5" CONDUIT TO ACCESSIBLE CEILING ON THE SAME FLOOR AS SHOWN UNLESS NOTED OTHERWISE. EXACT LOCATION TO BE COORDINATED BY ARCHITECT. |
| FT2 | FURNITURE FEED POKE-THRU DEVICE. WIREMOLD RC9AM2TC SERIES WITH FURNITURE FEED COVER. PROVIDE ONE 2" CONDUIT TO ACCESSIBLE CEILING ON THE SAME FLOOR AS SHOWN UNLESS NOTED OTHERWISE. EXACT LOCATION TO BE COORDINATED BY ARCHITECT. |
| J1 | 5"x5"x4" JUNCTION BOX. PROVIDE ONE 1.5" CONDUIT TO ACCESSIBLE CEILING ON THE SAME FLOOR AS SHOWN UNLESS NOTED OTHERWISE. MOUNT AT PROJECT'S STANDARD RECEPTACLE HEIGHT UNLESS NOTED OTHERWISE. |
| J2 | 6"x6"x4" JUNCTION BOX. PROVIDE ONE 2" CONDUIT TO ACCESSIBLE CEILING ON THE SAME FLOOR AS SHOWN UNLESS NOTED OTHERWISE. MOUNT AT PROJECT'S STANDARD RECEPTACLE HEIGHT UNLESS NOTED OTHERWISE. |
| | 19" TELECOMMUNICATIONS RACK. |
| | TELECOMMUNICATIONS GROUND BUS BAR. |
| | FIRE RETARDANT .75" PLYWOOD BACKBOARD. PAINTED WITH TWO COATS OF WHITE FIRE RETARDANT PAINT PRIOR TO INSTALLATION. EACH SHEET OF PLYWOOD BACKBOARD SHALL BE 4' WIDE X 8' HIGH. |
| | TELECOMMUNICATIONS BASKET CABLE TRAY, 12" WIDE x 4" DEEP, UNO. MOUNT ABOVE ACCESSIBLE CEILING. COORDINATE LOCATION WITH DUCTWORK, PLUMBING, FIRE PROTECTION, ELECTRICAL, AND LIGHT FIXTURES. |
| | TELECOMMUNICATIONS LADDER CABLE RUNWAY. SIZE AS INDICATED ON DRAWINGS. |
| | EMT CONDUIT CONCEALED IN SLAB OR UNDER FINISHED FLOOR. ROUTE AS INDICATED. |
| | EMT CONDUIT CONCEALED IN WALL OR ABOVE FINISHED CEILING. ROUTE AS INDICATED. |
| | EMT CONDUIT STUB UP INTO ACCESSIBLE CEILING UNLESS NOTED OTHERWISE. |
| | CONDUIT ABOVE CEILING UNLESS NOTED OTHERWISE. CONDUIT SHALL BE CONCEALED. |

| | |
|---|---|
| AFF | ABOVE FINISHED FLOOR |
| BFC | BELOW FINISHED CEILING |
| UNO | UNLESS NOTED OTHERWISE |
| TR | TELECOMMUNICATION ROOM |
| ER | EQUIPMENT ROOM |
| TGB | TELECOMMUNICATION GROUNDING BUSBAR |
| TMGB | TELECOMMUNICATION MAIN GROUNDING BUSBAR |
| TBB | TELECOMMUNICATION BONDING BACKBONE |

## CONDUIT INSTALLATION NOTES

THE RACEWAY SYSTEM FOR TELECOM CABLE SHALL FOLLOW THE NEC AND ALL LOCAL CODES GOVERNING THIS PROJECT. ADDITIONAL REQUIREMENTS ARE AS FOLLOWS:

1. A PULL CORD (NYLON, 1/8" MINIMUM) SHALL BE INSTALLED WITHIN ALL CONDUITS.
2. A PULL ROPE (NYLON/POLYESTER, 3/8" MINIMUM) SHALL BE INSTALLED WITHIN ALL OUTSIDE PLANT CONDUITS. MINIMUM TENSILE STRENGTH OF ROPE SHALL BE 2000 LBS PER FOOT.
3. PULL CORD AND PULL ROPE WITHIN ALL CONDUITS SHALL BE RE-PULLED AFTER EACH USE. CONDUITS SHALL NOT REMAIN EMPTY.
4. CONDUIT SHALL RUN IN MOST DIRECT ROUTE POSSIBLE, USUALLY PARALLEL WITH BUILDING LINES.
5. CONDUIT SLEEVES SHOULD BE RIGID GALVANIZED STEEL FOR PENETRATIONS OF CONCRETE SLABS, CONCRETE WALLS. ALL SLEEVES SHALL BE RIGIDLY INSTALLED USING APPROPRIATE FITTINGS AND ALL PENETRATIONS SHALL BE GROUTED AROUND THE SLEEVE. SLEEVES SHALL PROJECT A MINIMUM OF 4" BEYOND WALL OR FLOOR SURFACE. ALL PENETRATIONS SHALL BE FIRESTOPPED.
6. CONDUIT RUN SHALL CONTAIN NO CONTINUOUS SECTIONS LONGER THAN 100 FEET. IF RUNS TOTAL MORE THAN 100 FEET, PULL POINTS OR PULL BOXES SHALL BE INSERTED.
7. CONDUIT RUNS TO WORK AREAS SHALL SERVE NO MORE THAN ONE COMMUNICATION OUTLET. DAISY CHAINING IS NEVER ALLOWED.
8. CONDUIT SHALL HAVE NO MORE THAN TWO 90 DEGREES OF BENDS AT ANY POINT OR MORE THAN 180 DEGREES OF CUMULATIVE BENDS BETWEEN PULL POINTS.
9. INSTALL CONDUITS WITH A MINIMUM OF BENDS AND OFFSETS. BENDS SHALL NOT KINK OR DESTROY INTERIOR CROSS SECTION OF RACEWAY. FACTORY MADE BENDS SHALL BE USED FOR RACEWAY'S 1" TRADE SIZE AND LARGER. BENDS RADIUS SHALL BE 6 TIMES INTERNAL DIAMETER FOR CONDUIT SIZES UP TO 2". A CONDUIT GREATER THAN 2" SHALL HAVE BEND RADIUS AT LEAST 10 TIMES DIAMETER OF CONDUIT. DO NOT USE PULL BOX IN LIEU OF A BEND RADIUS. BEND RADIUS ON CABLING SHOULD ALWAYS BE MADE WITHIN THE CONDUIT.
10. DO NOT INSTALL CONDUIT OVER OR ADJACENT TO BOILERS, INCINERATORS, HOT WATER LINES, OR STEAM LINES.
11. REAM ALL CONDUIT ENDS AND FIT THEM WITH AN INSULATED BUSHING TO ELIMINATE SHARP EDGES THAT MAY DAMAGE CABLES.
12. AFTER INSTALLATION, LEAVE CONDUITS CLEAN, DRY AND UNOBSTRUCTED, REAMED AND FITTED WITH BUSHINGS.
13. ELECTRICAL METALLIC TUBING AND RIGID METAL CONDUIT ARE THE ONLY ALLOWED TYPES FOR INTERIOR BUILDING. FLEXIBLE METAL CONDUIT IS NEVER ALLOWED.
14. CONDUIT SYSTEM INSTALLATION:
    - 14.1 CABLE IN EXTERIOR, ABOVE GRADE LOCATIONS: RIGID GALVANIZED STEEL.
    - 14.2 INTERIOR LOCATIONS: EMT AND RMC.
    - 14.3 CABLE BELOW GRADE: SCHEDULE 40 PVC.
15. ALL METALLIC CONDUITS SHALL BE APPROPRIATELY GROUNDED AS SPECIFIED IN THE NEC, ANSI/TIA/EIA J-STD-607-B AND PER MANUFACTURER'S SPECIFICATIONS.
16. CONDUITS ARE TO BE CLEARLY MARKED AT EACH END TO INDICATE THE TRADE (E.G. AV, TELECOM) THAT THE CONDUIT IS INTENDED TO SUPPORT.
17. CABLE PATHWAY SHOULD BE LESS THAN 270 FEET. THE LENGTH SHALL BE MEASURED FROM THE OUTLET IN THE WORK AREA TO PATCH PANEL IN THE RACK.
18. FOR OUTSIDE PLANT CONDUITS ROUTES PROVIDE A SITE LEVEL ACCESSIBLE HANDHOLE EVERY (2) 90 DEGREE BENDS OR 180 DEGREES IN BENDS TOTAL. DISTANCE BETWEEN EACH HANDHOLE SHALL NOT EXCEED 600 FEET DISTANCE. DO NOT USE HANDHOLE IN LIEU OF A BEND RADIUS. BEND RADIUS ON CABLING SHOULD ALWAYS BE MADE WITHIN THE CONDUIT.
19. OUTSIDE PLANT LOCATIONS, ROUTES, AND PULL POINTS ARE INDICATIVE ONLY. CONTRACTOR TO REVIEW THE PROJECT SITE AND SUBMIT SHOP DRAWING WHICH INCLUDES BUT IS NOT LIMITED TO ROUTES, CONFIGURATION OF CONDUITS, AND DESIGN OF HANDHOLES AND MANHOLES FOR REVIEW BY THE DESIGN TEAM BEFORE COMMENCING WORK.
20. CONTRACTOR TO SUBMIT PRE-CAST HANDHOLE AND MANHOLE PRODUCTS WHICH ARE TO BE INTEGRATED INTO THE OUTSIDE PLANT COMMUNICATIONS DUCTBANK FOR REVIEW BEFORE COMMENCING WORK.
21. CONSTRACTOR SHALL PROVIDE A 2" CONDUIT SLEEVES EXTENDING INTO ACCESSIBLE CEILING AS NECESSARY INTO AREAS AND ROOMS WHERE OUTLET CONDUITS CANNOT EXTEND INTO THE ADJACENT CORRIDOR.

## GENERAL PROJECT NOTES

A. ALL MOUNTING HEIGHTS ARE TO THE CENTER LINE OF THE DEVICE BACKBOX UNLESS NOTED OTHERWISE.

B. ALL BOXES AND CONDUITS IN WALLS AND CEILINGS SHALL BE FLUSH MOUNTED OR CONCEALED UNLESS NOTED OTHERWISE.

C. ALL EXTERIOR OUTLETS SHALL BE EXTERIOR RATED OUTLET, IP-67 RATED (NEMA 6).

D. EXACT LOCATION OF ALL TELECOM OUTLETS LOCATED IN FURNITURE AND MILLWORK TO BE VERIFIED WITH ARCHITECT PRIOR TO INSTALLATION.

E. ELECTRICAL OUTLETS SHALL BE PROVIDED WITHIN THREE-SIX INCHES OF COMMUNICATION OUTLETS AT EQUAL HEIGHT.

F. IT SHALL BE UNDERSTOOD ALL INFORMATION WITHIN THIS DRAWING PACKAGE IS DIAGRAMMATIC TO SHOW THE DESIGN INTENT. ANY FIELD DEVIATIONS FROM THE DRAWINGS BY THE CONTRACTOR HOWEVER, SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT OR CONSULTANT. IF FIELD DEVIATIONS ARE NOT SUBMITTED BEFOREHAND, THE INDIVIDUAL CHANGE(S) WILL BE CONSIDERED OUT OF SCOPE FROM THE ARCHITECT AND CONSULTANT'S OVERALL DESIGN AND SPECIFICATION FOR THE PROJECT.

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PROJECT NO. 2111010

DATE: 10/11/2023

SHEET TITLE:

TELECOM SYMBOLS AND NOTES

SCALE: 12" = 1'-0"

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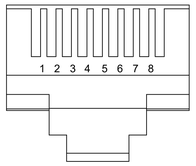
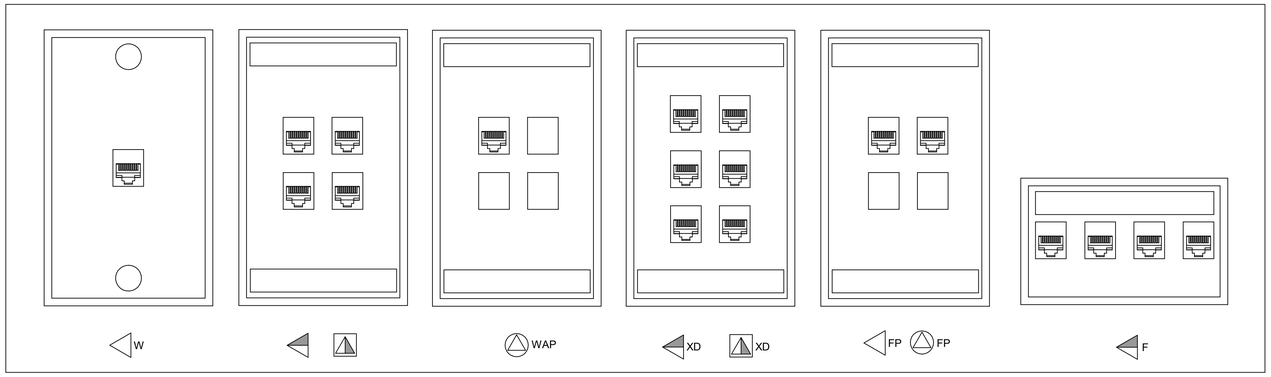
568A PIN CONFIGURATION

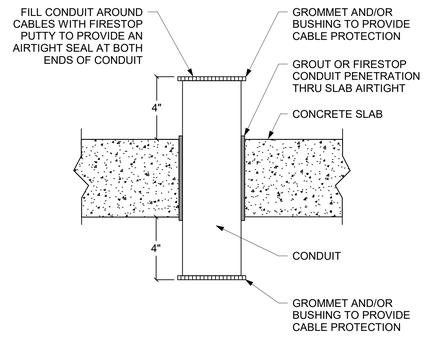
| PIN | WIRE COLOR |
|---|---|
| 1 | WHITE/GREEN |
| 2 | GREEN |
| 3 | WHITE/ORANGE |
| 4 | BLUE |
| 5 | WHITE/BLUE |
| 6 | ORANGE |
| 7 | WHITE/BROWN |
| 8 | BROWN |



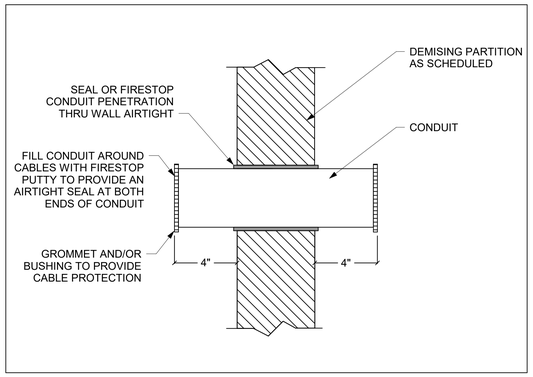

1 568A PIN OUT CONFIGURATION
NTS



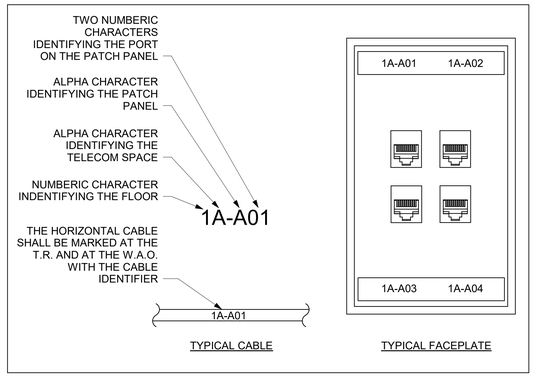

2 TYPICAL FACEPLATE
NTS



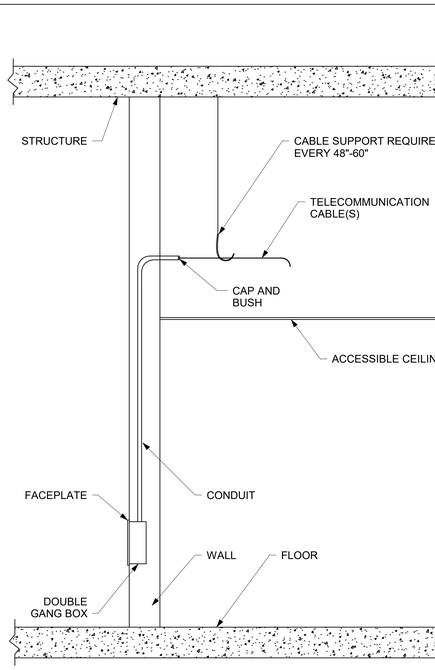

3 TYPICAL SLEEVE IN TELECOM ROOM SLAB
NTS



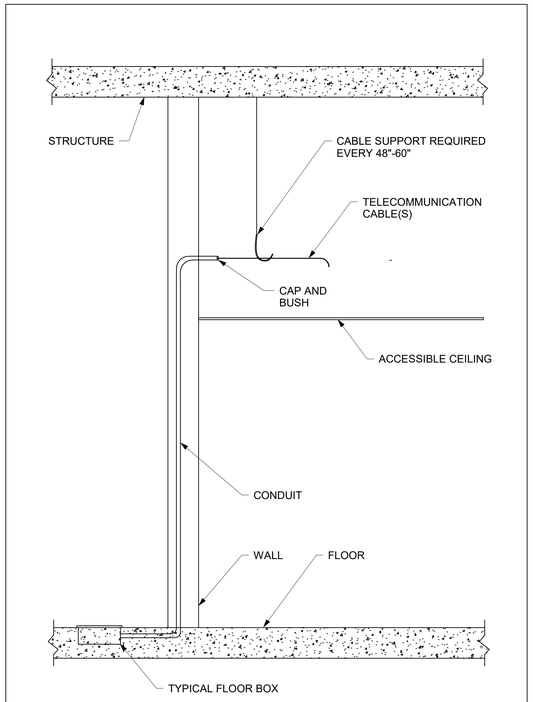

4 TYPICAL SLEEVE IN RATED WALL
NTS




5 TYPICAL LABELING SCHEME
NTS




6 TYPICAL FLUSH WALL MUNT TELECOM OUTLET
NTS




7 TYPICAL FLOOR MOUNT TELECOM OUTLET
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| PROJECT NO. | 2111010 |
| DATE: | 10/11/2023 |

SHEET TITLE:

TELECOM STANDARDS (1 OF 2)

SCALE: NTS

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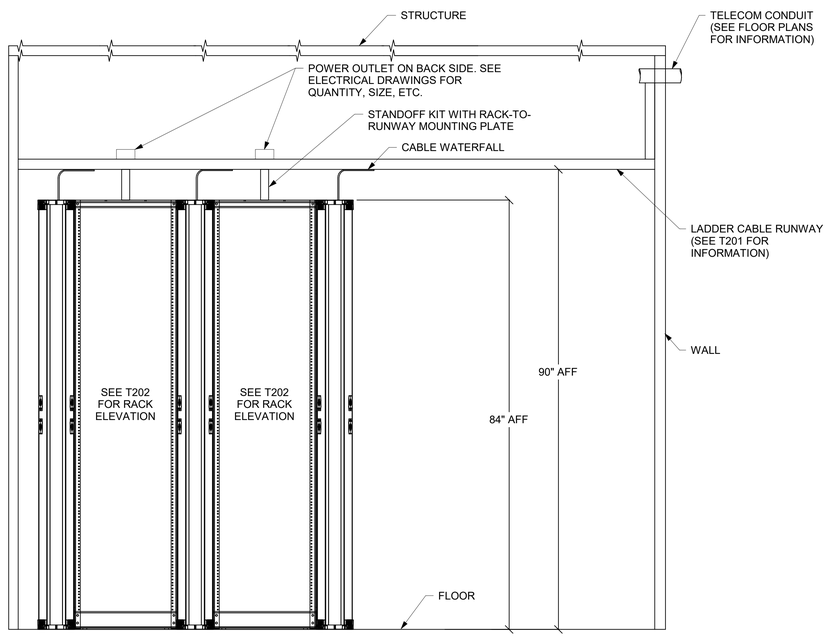
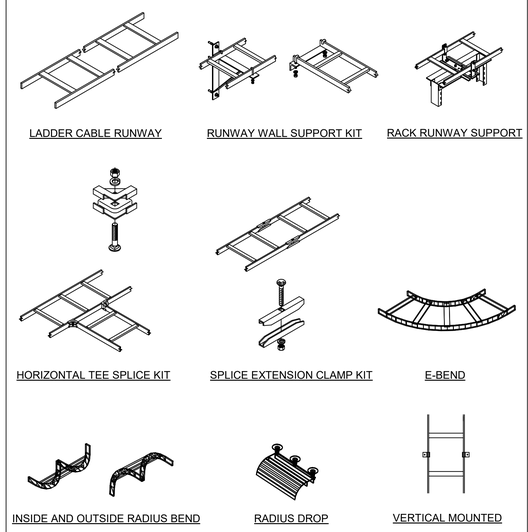


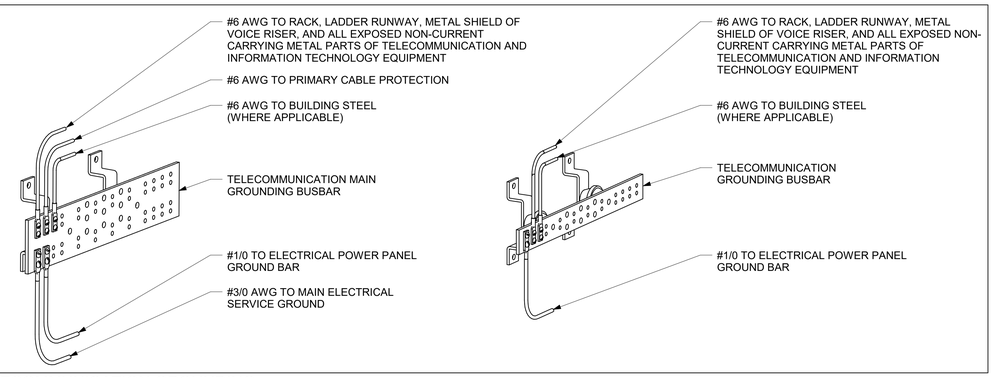

1 TYPICAL TELECOM RACK - CABLE AND RACEWAY, ELEVATION
NTS



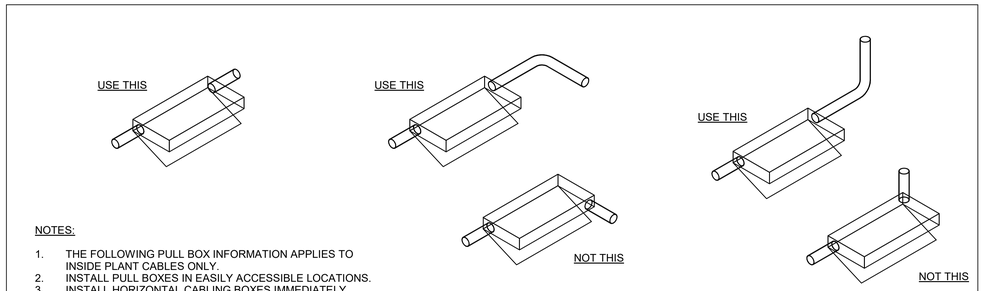

NOTES:

1. PROVIDE ALL PARTS AND PIECES TO CREATE A CONTINUOUS PATHWAY FOR CABLES WITHIN TELECOMMUNICATION ROOMS. PROVIDE PARTS TO SUPPORT CABLE CONTINUOUSLY FROM THE SLEEVES ENTERING THE TR TO THE EQUIPMENT RACKS AND BACKBOARDS.

2 TYPICAL LADDER CABLE RUNWAY AND ACCESSORIES
NTS




3 TELECOMMUNICATION GROUNDING
NTS




NOTES:

1. THE FOLLOWING PULL BOX INFORMATION APPLIES TO INSIDE PLANT CABLES ONLY.
2. INSTALL PULL BOXES IN EASILY ACCESSIBLE LOCATIONS.
3. INSTALL HORIZONTAL CABLING BOXES IMMEDIATELY ABOVE SUSPENDED CEILINGS.
4. FOR DIRECT ACCESS TO A BOX, PROVIDE A SUITABLE, MARKED, HINGED PANEL (OR EQUIVALENT) IN THE SUSPENDED CEILING. THIS ACCESS PANEL CAN ALSO SERVE AS THE COVER FOR THE BOX.

4 TYPICAL PULL BOX AND CONDUIT
NTS

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PROJECT TITLE:

# ALTADENA MAIN LIBRARY

600 E MARIPOSA STREET
ALTADENA, CA 91001

| | |
|---|---|
| PROJECT NO. | 2111010 |
| DATE: | 10/11/2023 |

SHEET TITLE:

TELECOM STANDARDS (2 OF 2)

SCALE: 1/8" = 1'-0"

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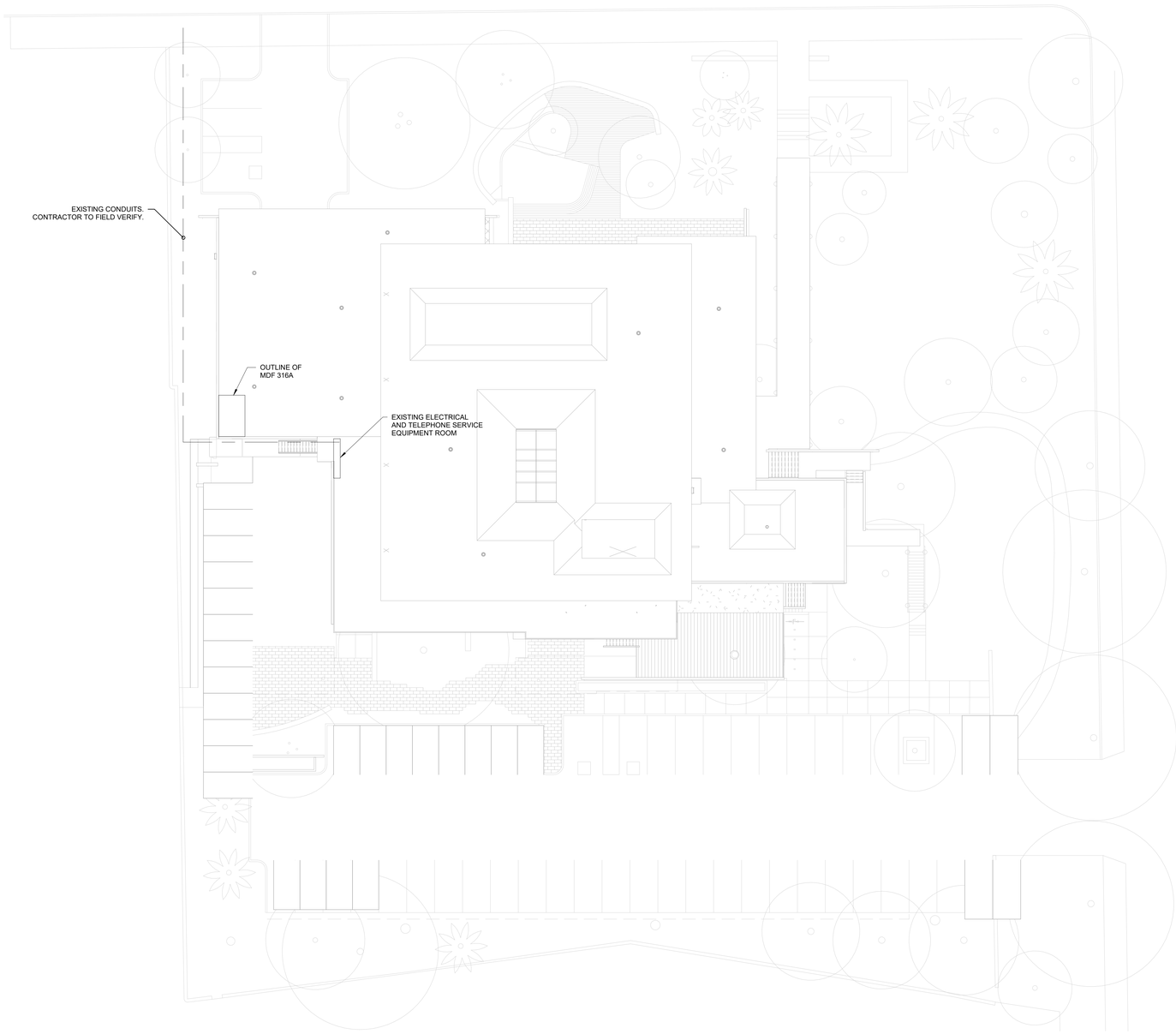
T002

10/11/2023 2:24:01 PM

NOTES (THIS SHEET ONLY):

1. TWO 2" UNDERGROUND CONDUITS. PROVIDE ONE 1.25" INNERDUCT IN EACH CONDUIT. COORDINATE ROUTING AND TERMINATION LOCATIONS WITH OWNER AND ARCHITECT.

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PROJECT TITLE:

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|---|---|
| PROJECT NO. | 2111010 |
| DATE: | 10/11/2023 |

SHEET TITLE:

## TELECOM SITE PLAN

SCALE: 1/16" = 1'-0"

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T100

10/12/2023 2:24:03 PM




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PROJECT TITLE:

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|---|---|
| PROJECT NO. | 2111010 |
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SHEET TITLE:

## TELECOM SITE PLAN - ADD ALTS

SCALE: 1/16" = 1'-0"

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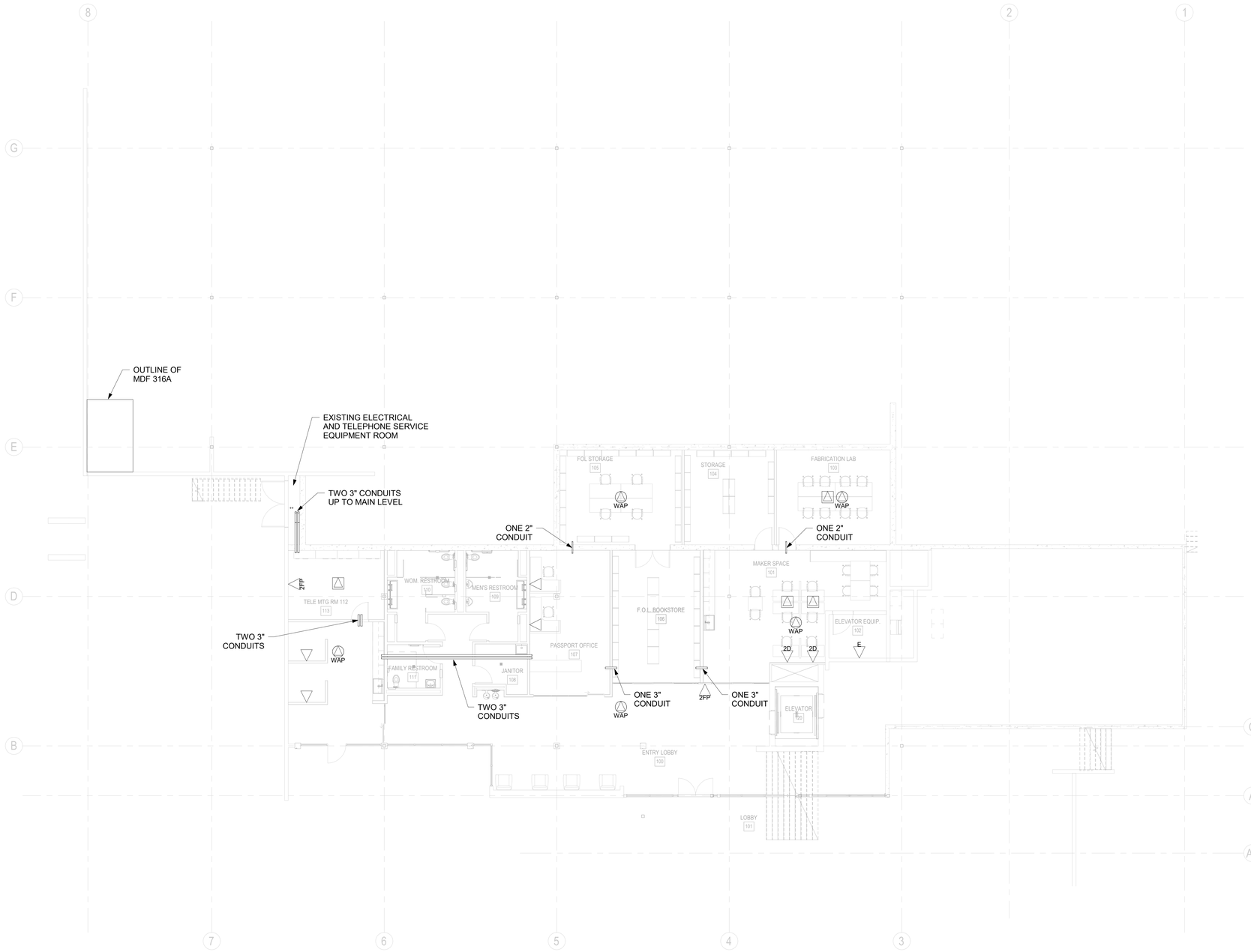
T100A

10/12/2023 2:24:04 PM

GENERAL NOTES (THIS SHEET ONLY):

A. ALL OUTLETS IN THIS AREA ARE SERVED FROM MDF 316A. TERMINATE ALL CABLES IN MDF 316A.





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PROJECT TITLE:

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| | |
|---|---|
| PROJECT NO. | 2111010 |
| DATE: | 10/11/2023 |

SHEET TITLE:

## TELECOM LOWER LEVEL FLOOR PLAN

SCALE: 1/8" = 1'-0"


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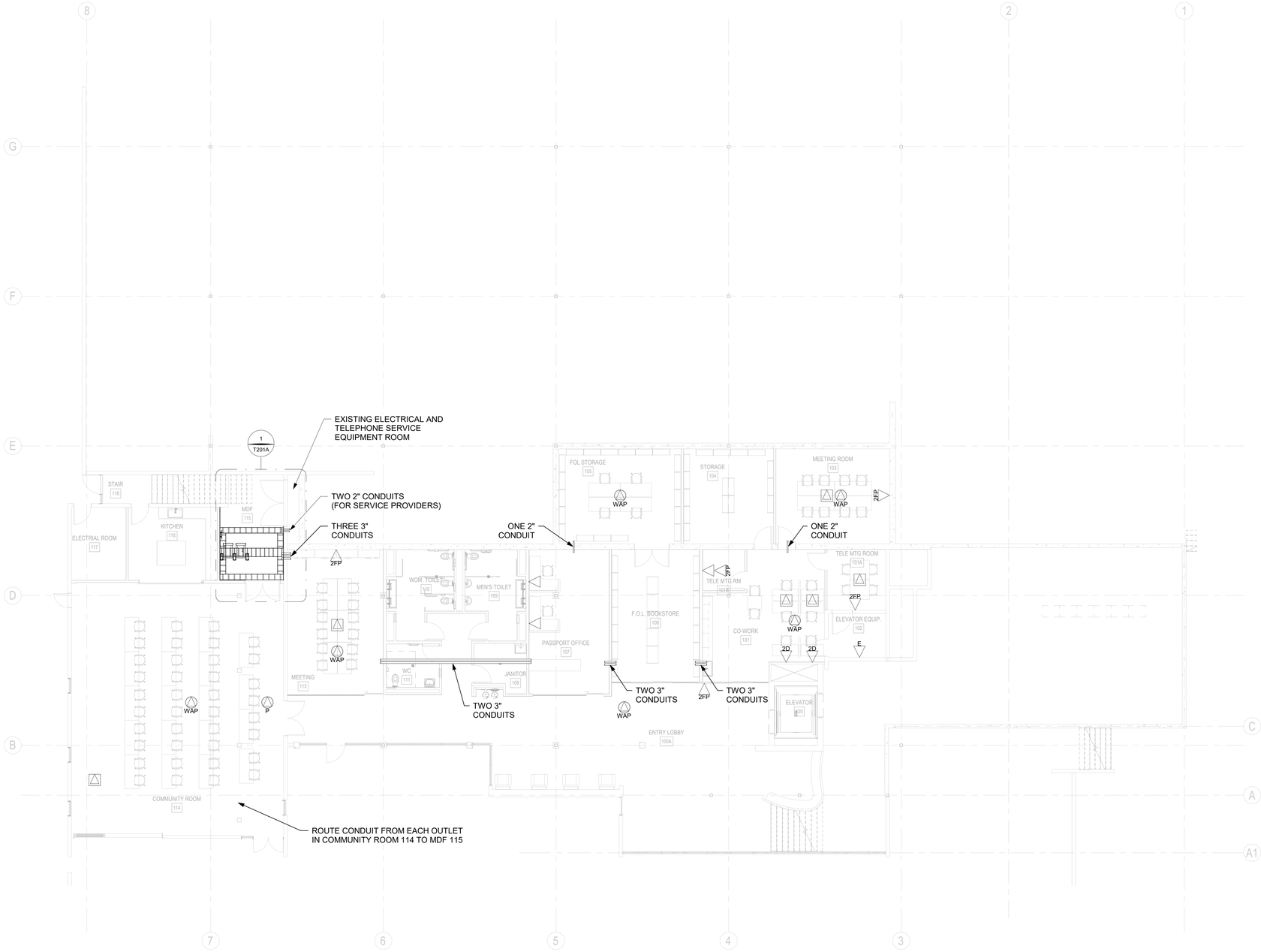
T101

10/11/2023 2:24:05 PM

GENERAL NOTES (THIS SHEET ONLY):

A. ALL OUTLETS IN THIS AREA ARE SERVED FROM MDF 115. TERMINATE ALL CABLES IN MDF 115.





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PROJECT TITLE:

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ALTADENA, CA 91001

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|---|---|
| PROJECT NO. | 2111010 |
| DATE: | 10/11/2023 |

SHEET TITLE:

## TELECOM LOWER LEVEL FLOOR PLAN - ADD ALTS

SCALE: 1/8" = 1'-0"


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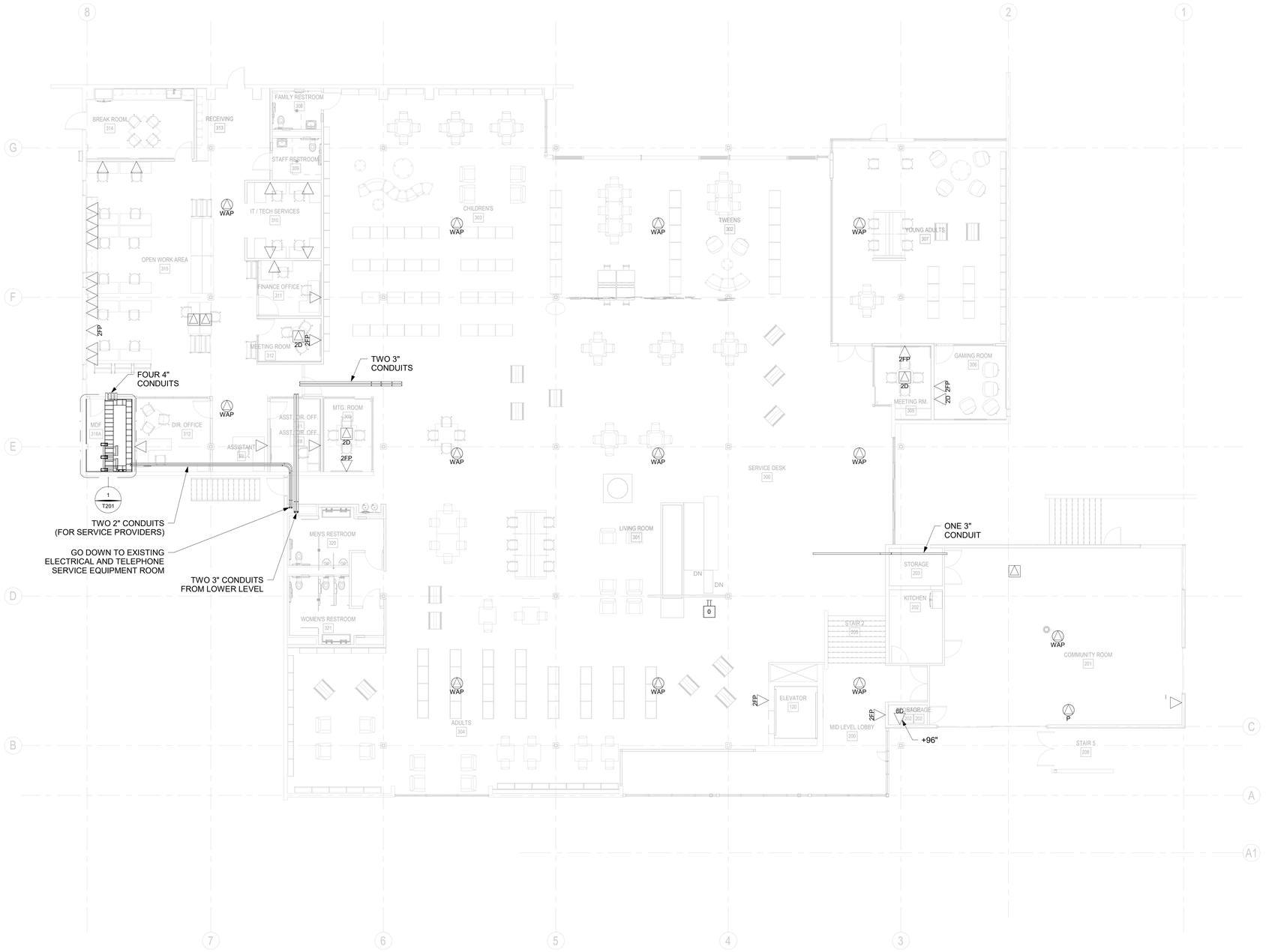
T101A

10/11/2023 2:24:07 PM

GENERAL NOTES (THIS SHEET ONLY):

A. ALL OUTLETS IN THIS AREA ARE SERVED FROM MDF 316A. TERMINATE ALL CABLES IN MDF 316A.





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PROJECT TITLE:

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| | |
|---|---|
| PROJECT NO. | 2111010 |
| DATE: | 10/11/2023 |

SHEET TITLE:

## TELECOM MAIN LEVEL FLOOR PLAN

SCALE: 1/8" = 1'-0"


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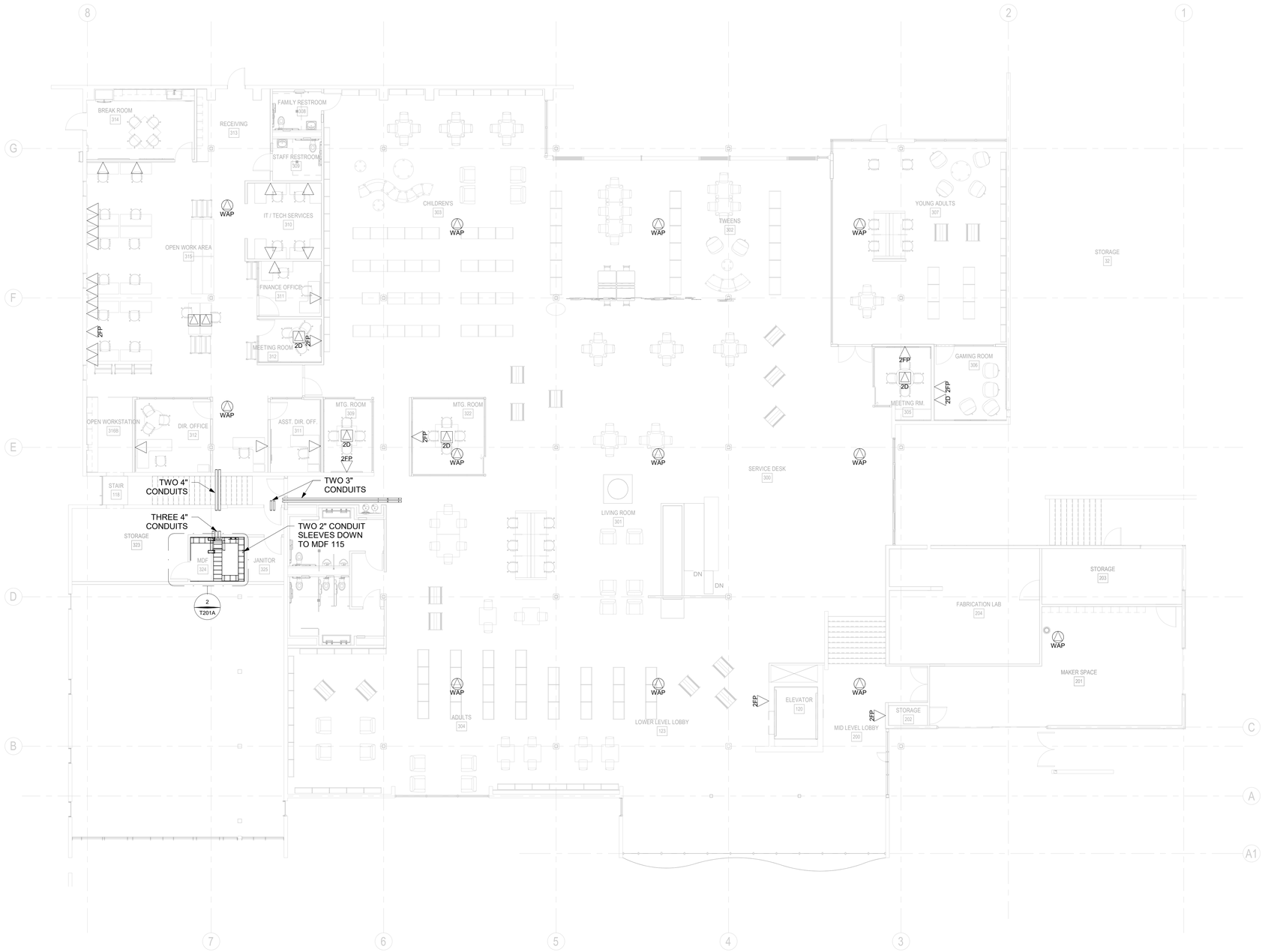
T102

10/11/2023 2:24:09 PM

GENERAL NOTES (THIS SHEET ONLY):

A. ALL OUTLETS IN THIS AREA ARE SERVED FROM MDF 324. TERMINATE ALL CABLES IN MDF 324.





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PROJECT TITLE:

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600 E MARIPOSA STREET
ALTADENA, CA 91001

| | |
|---|---|
| PROJECT NO. | 2111010 |
| DATE: | 10/11/2023 |

SHEET TITLE:

## TELECOM MAIN LEVEL FLOOR PLAN - ADD ALTS

SCALE: 1/8" = 1'-0"


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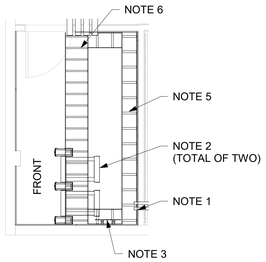
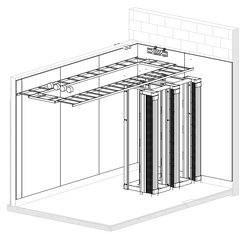
T102A

10/11/2023 2:24:11 PM



1 MAIN LEVEL MDF 316A
1/4" = 1'-0"

## SHEET NOTES (THIS SHEET ONLY)

1. 4'W x 8'H x 0.75"D A-C GRADE FIRE RETARDANT TREATED PLYWOOD BACKBOARD. BACKBOARD SHALL BE PAINTED WITH TWO COATS OF FIRE RETARDANT PAINT PRIOR TO INSTALLATION (ALL WALLS).
2. 4-POST TELECOMMUNICATION EQUIPMENT RACK.
3. TELECOMMUNICATION MAIN GROUNDING BUSBAR. MOUNTED AT 96" AFF.
4. TELECOMMUNICATION GROUNDING BUSBAR. MOUNTED AT 96" AFF.
5. 12" LADDER CABLE RUNWAY.
6. 18" LADDER CABLE RUNWAY.

## GENERAL NOTES (THIS SHEET ONLY)

A. SEE TELECOMMUNICATION FLOOR PLANS FOR CONDUITS, CONDUIT CORES, AND CONDUIT SLEEVES ENTERING THE MDF AND IDF ROOMS.

B. CABLE RUNWAY: PROVIDE ALL PARTS AND PIECES TO CREATE A CONTINUOUS PATHWAY FOR CABLES WITHIN MDF AND IDF ROOMS. PROVIDE PARTS TO SUPPORT CABLE CONTINUOUSLY FROM THE CONDUITS, CONDUIT CORES, AND CONDUIT SLEEVES ENTERING THE MDF AND IDF ROOMS TO THE EQUIPMENT RACKS AND BACKBOARDS.

C. INSTALL WITH A MINIMUM OF 36" CLEAR ACCESS BEHIND AND IN FRONT OF RACK UNLESS OTHERWISE DIRECTED BY DRAWINGS.

D. MINIMUM CLEARANCE BETWEEN END OF ROW AND WALL SHOULD BE 36".

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PROJECT TITLE:

# ALTADENA MAIN LIBRARY

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| | |
|---|---|
| PROJECT NO. | 2111010 |
| DATE: | 10/11/2023 |

SHEET TITLE:

TELECOM ENLARGED PLANS

SCALE: 1/4" = 1'-0"

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T201

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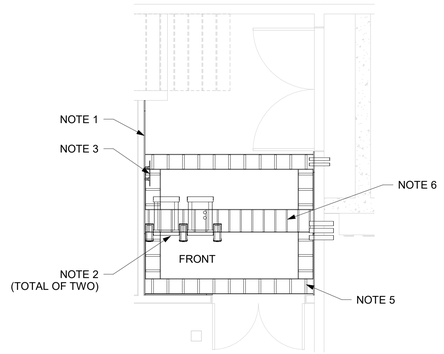
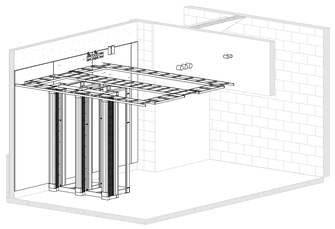
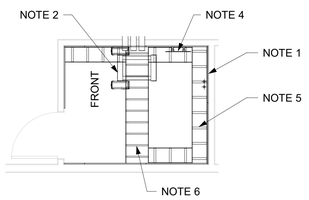
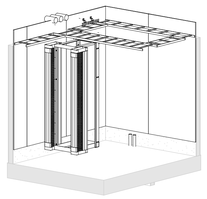


1 LOWER LEVEL MDF 115
1/4" = 1'-0"



2 MAIN LEVEL MDF 324
1/4" = 1'-0"

## SHEET NOTES (THIS SHEET ONLY)

1. 4'W x 8'H x 0.75"D A-C GRADE FIRE RETARDANT TREATED PLYWOOD BACKBOARD. BACKBOARD SHALL BE PAINTED WITH TWO COATS OF FIRE RETARDANT PAINT PRIOR TO INSTALLATION (ALL WALLS).
2. 4-POST TELECOMMUNICATION EQUIPMENT RACK.
3. TELECOMMUNICATION MAIN GROUNDING BUSBAR. MOUNTED AT 96" AFF.
4. TELECOMMUNICATION GROUNDING BUSBAR. MOUNTED AT 96" AFF.
5. 12" LADDER CABLE RUNWAY.
6. 18" LADDER CABLE RUNWAY.

## GENERAL NOTES (THIS SHEET ONLY)

A. SEE TELECOMMUNICATION FLOOR PLANS FOR CONDUITS, CONDUIT CORES, AND CONDUIT SLEEVES ENTERING THE MDF AND IDF ROOMS.

B. CABLE RUNWAY: PROVIDE ALL PARTS AND PIECES TO CREATE A CONTINUOUS PATHWAY FOR CABLES WITHIN MDF AND IDF ROOMS. PROVIDE PARTS TO SUPPORT CABLE CONTINUOUSLY FROM THE CONDUITS, CONDUIT CORES, AND CONDUIT SLEEVES ENTERING THE MDF AND IDF ROOMS TO THE EQUIPMENT RACKS AND BACKBOARDS.

C. INSTALL WITH A MINIMUM OF 36" CLEAR ACCESS BEHIND AND IN FRONT OF RACK UNLESS OTHERWISE DIRECTED BY DRAWINGS.

D. MINIMUM CLEARANCE BETWEEN END OF ROW AND WALL SHOULD BE 36".

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PROJECT TITLE:

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|---|---|
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| DATE: | 10/11/2023 |

SHEET TITLE:

TELECOM ENLARGED PLANS - ADD ALTS

SCALE: 1/4" = 1'-0"

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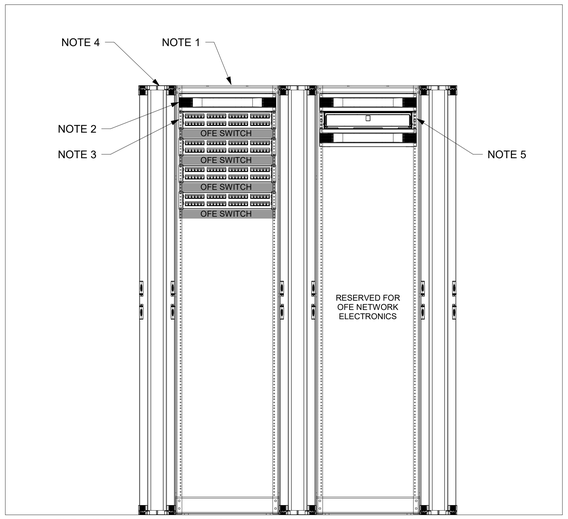


1 MAIN LEVEL MDF 316A RACK ELEVATION

NTS

## SHEET NOTES (THIS SHEET ONLY)

1. 4-POST TELECOMMUNICATION EQUIPMENT RACK.
2. 2RU HORIZONTAL CABLE MANAGEMENT.
3. 2RU 48-PORT ANGLED PATCH PANEL.
4. 6" DOUBLE SIDED VERTICAL CABLE MANAGEMENT.
5. FIBER OPTIC PATCH PANEL.

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PROJECT TITLE:

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| | |
|---|---|
| PROJECT NO. | 2111010 |
| DATE: | 10/11/2023 |

SHEET TITLE:

TELECOM RACK ELEVATIONS

SCALE: As indicated

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T301

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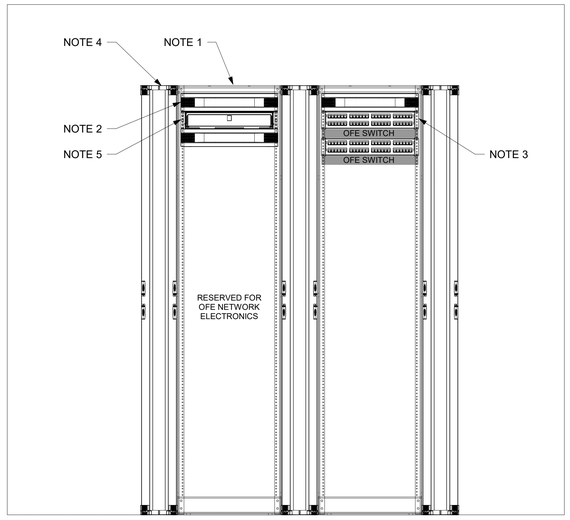
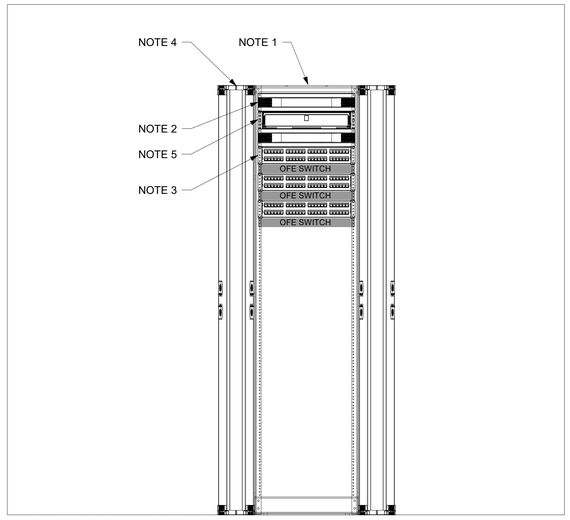



1 LOWER LEVEL MDF 115 RACK ELEVATION

NTS




2 MAIN LEVEL MDF 324 RACK ELEVATION

NTS

## SHEET NOTES (THIS SHEET ONLY)

1. 4-POST TELECOMMUNICATION EQUIPMENT RACK.
2. 2RU HORIZONTAL CABLE MANAGEMENT.
3. 2RU 48-PORT ANGLED PATCH PANEL.
4. 6" DOUBLE SIDED VERTICAL CABLE MANAGEMENT.
5. FIBER OPTIC PATCH PANEL.

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PROJECT TITLE:

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SHEET TITLE:

TELECOM RACK ELEVATIONS - ADD ALTS

SCALE: As indicated

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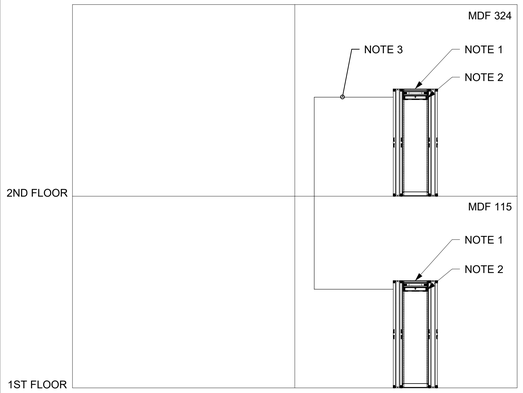
10/11/2023 2:24:16 PM

## NOTES (THIS DETAIL ONLY)

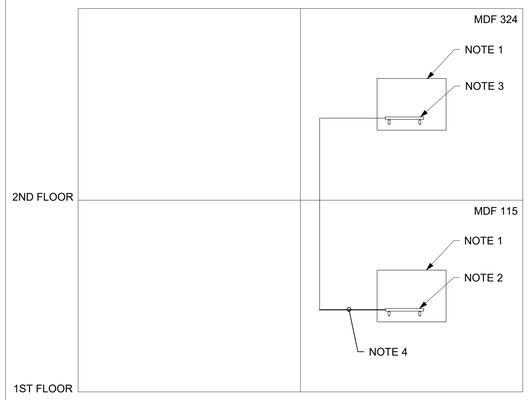
1. TELECOMMUNICATION EQUIPMENT RACK.
2. FIBER OPTIC PATCH PANEL.
3. 12-STRAND INTRABUILDING MULTIMODE OM4.




1 FIBER OPTIC RISER DIAGRAM
NO SCALE

## NOTES (THIS DETAIL ONLY)

1. TELECOMMUNICATION BACKBOARD.
2. TELECOMMUNICATION MAIN GROUNDING BUSBAR.
3. TELECOMMUNICATION GROUNDING BUSBAR.
4. #1/0 AWG TELECOMMUNICATION BONDING BACKBONE.




2 GROUNDING/BONDING RISER DIAGRAM
NO SCALE

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|---|---|
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SHEET TITLE:

## TELECOM RISER DIAGRAMS - ADD ALTS

SCALE: 1/4" = 1'-0"

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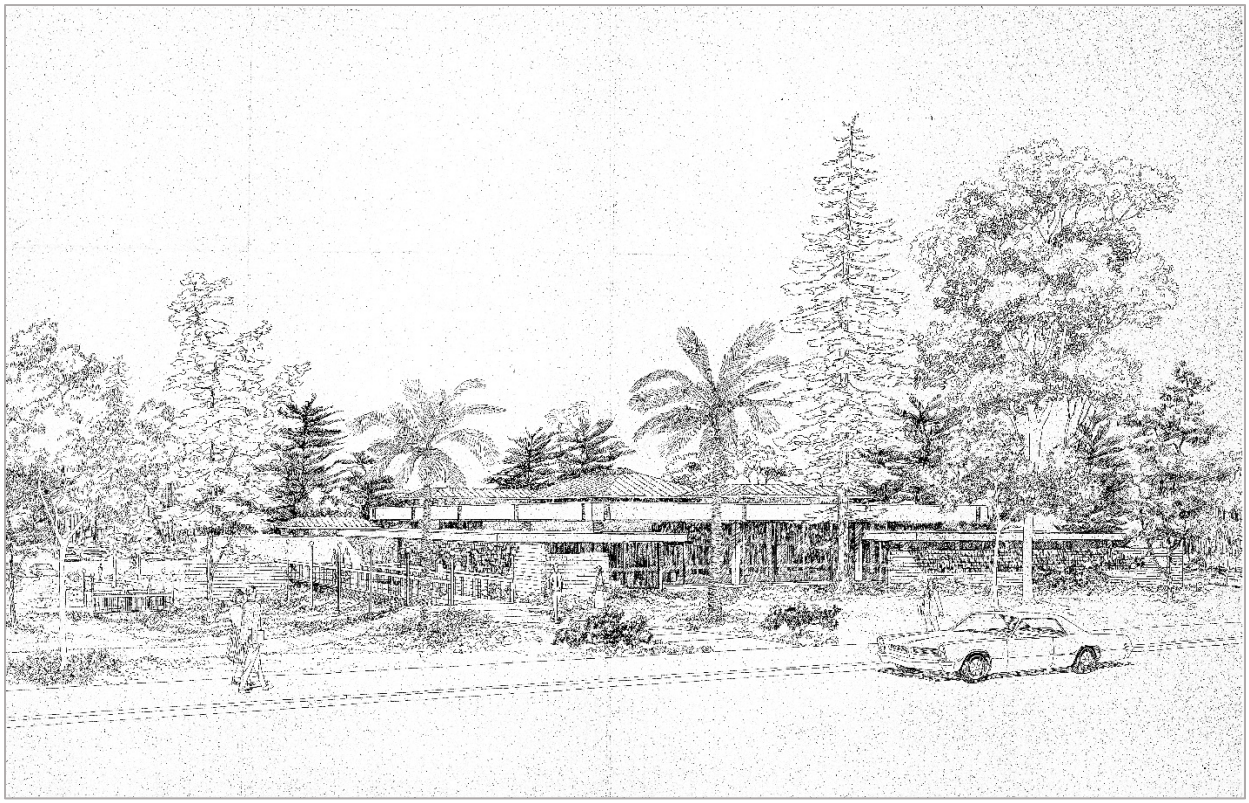
T401A

10/11/2023 2:24:16 PM

KLEINFELDER
Bright People. Right Solutions.

# APPENDIX B

## 2020 ALTADENA MAIN LIBRARY HISTORICAL ASSESSMENT REPORT



# Altadena Main Library

## Historical Resource Assessment Report

*Prepared for:*

Altadena Library District

*Prepared by:*

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# 1. Introduction

At the request of the Altadena Library District, Architectural Resources Group (ARG) has prepared this Historical Resource Assessment Report for the property at 600 E. Mariposa Street, the Altadena Main Library. The Altadena Main Library was constructed in 1967 and designed by noted Southern California architect Boyd Georgi. The Pasadena firm of Eriksson, Peters & Thoms designed the landscape for the site.

The assessment presented in this report includes an evaluation of the property against federal (National Register of Historic Places), state (California Register of Historical Resources) and local (Los Angeles County Landmark) eligibility criteria. Upon thorough analysis of the subject property, ARG finds that the Altadena Main Library appears eligible for listing under federal, state, and local registration criteria and is thus a "qualified historic structure" as defined in the California Historical Building Code (Section 18955 of Division 13, Part 2.7 of Health and Safety Code).[1]

[1] Section 18955 of the Health and Safety Code defines a historic building or structure as "any structure or property…deemed of importance to the history, architecture, or culture of an area by an appropriate local or state governmental jurisdiction. This shall include structures on existing or future national, state, or local historical registers or official inventories, such as the National Register of Historic Places, State Historical Landmarks, State Points of Historical Interest, and city or county registers or inventories of historical or architecturally significant sites, places, historic districts, or landmarks."

# 2. Assessment Methodology

## 2.1. Research

For preparation of this assessment, ARG performed the following tasks for research, documentation, and analysis:

- Conducted a search in California's Historic Resources Inventory (HRI) for previous surveys and evaluations of the property.
- Reviewed state and local technical bulletins, ordinances, and other materials related to the evaluation of historical resources.
- Conducted primary and secondary source research related to the history of the property.
- Evaluated the building against eligibility criteria of the National Register, California Register, and Los Angeles County's Historic Preservation Ordinance.

ARG staff consulted the following archives and repositories as part of their research for this assessment: Altadena District Library; California State Library, California History Room; ProQuest, including the historic *Los Angeles Times* database; County of Los Angeles Department of Building and Safety online building permit records; and ARG's in-house library collection. A complete list of references is included at the end of this assessment.

## 2.2 Field Methods

In addition to primary and secondary source research, ARG visited the site on June 13, 2019. During the site visit, the site was photographed, and notes were taken on the building's physical appearance and condition.

## 2.3 Project Team

This report was prepared by Katie Horak, Principal, and Evanne St. Charles, Associate, both of whom meet the *Secretary of the Interior's Professional Qualifications Standards*, 36 CFR Part 61, in the discipline of Architectural History. Project support was provided by ARG designer Marcos Gonzalez-Bode.

# 3. Architectural Description

## 3.1 Site and Landscape

The subject property is located at 600 E. Mariposa Street in the unincorporated Los Angeles County community of Altadena. Located at the southern foot of the San Gabriel Mountains, the surrounding topography slopes gradually towards the south. Streets in the vicinity of the property run in a grid skewed northeast to southwest. West of Lake Ave, two blocks to the east, the street grid re-aligns to a standard north-south oriented pattern. The site's immediate setting is dominated by single-family residences with a few scattered institutional buildings. Adjacent to the library is the Altadena Senior Center, a small campus of several low-lying buildings, and across the street is 'Camp Mariposa' a small, wooded site affiliated with the local Girl Scouts chapter.




Location map, site outlined in red. Base image: maps.google.com

The site historically comprised the estate of Colonel G.G. Green, owner of the City of Pasadena's Green Hotel; it was bordered by the properties of other significant individuals such as Andrew McNally of the publishing company Rand-McNally. Deodar cedars bordering the eastern edge of the property once

delineated the mile-long private driveway of Altadena developer John C. Woodbury (now known as Christmas Tree Lane).[2] Dense, mature vegetation fronts the building to the north and east (along Mariposa Street and Santa Rosa Avenue); an L-shaped paved parking lot lines the southwest perimeter of the property.

Designed by local landscape architects Eriksson Peters & Thoms in 1967, the site is lushly landscaped with sago palms, Canary Island pines, juniper shrubs, and azaleas, interspersed amongst patches of lawn. It is traversed by several concrete paths and stairs and two historic steel-framed footbridges with wood decks that connect the library to outdoor seating areas as well as the street and parking lot. The topography of the site is undulating and gradually slopes from north to south with an 18-foot elevation change. A depression underneath the southern footbridge was designed for a small pool (no longer extant). Historic planters remain on the south side of the building, creating a buffer between the parking lot and the library building. The planters retain cedar trees and a magnolia tree, as specified in the original landscape plans. Though smaller landscaped areas that once framed historic gathering spaces have become less articulated with the addition/removal of some plants over time, the overarching design and many of the original plant species employed by Eriksson Peters & Thoms are still apparent.

## 3.2 Building, Exterior[3]

The Altadena Main Library was designed as a Mid-Century Modern building with an irregular plan, showcasing three interweaving levels in both plan and section. The library is built into its sloped site, appearing as a two-story building on the south end and one story on the north end. The building is clad in exposed concrete block and is topped by multi-level, flat roofs with closed eaves. Fenestration includes grouped fixed metal windows (floor-to-ceiling and clerestory) and fully glazed and flush metal doors.

The building's primary (east) façade is set back from Santa Rosa Avenue and obscured by dense vegetation. The façade is asymmetrical and organized into separate volumes united by both the upper foot-bridge that extends along three-quarters of the façade and two closed eaves (upper and lower) that span the whole library and the north volume, respectively. From the north, the upper footbridge provides access to the library's main entrance. Secondary access is possible from the southern parking lot along a lower footbridge and two sets of exterior concrete staircases. Both pathways lead to the library's main entrance which consists of a recessed, covered, hexagonal tiled plaza that precedes an automated entry door. Though the opening is original, the original doors and transom were replaced (date unknown). On the northern wall of the plaza is an original metal sculpture designed by local sculptor David Green.

The building's north façade, parallel to and set back from Mariposa Avenue, is obscured by lush vegetation. The façade is asymmetrical and consists of three contrasting volumes unified by a deep, closed eave. The center section comprises floor-to-ceiling, fixed metal windows bound by two smaller

[2] The cedars comprising Christmas Tree Lane are not directly located on the subject property. Christmas Tree Lane was listed in the National Register of Historic Places in 1990 and is designated California Historical Landmark No. 990.

[3] While the site is oriented northeast-southwest in keeping with the skewed street grid, the following description of the Building's exterior uses cardinal directions in order to simplify orientation.

projecting volumes capped by their own flat roofs. The center section is further articulated by two, full-height exterior structural columns. The west volume consists of a concrete block wall lined with a ribbon of clerestory windows sheltered by a shallow, closed eave. The east volume is fully glazed and fronted by a small concrete patio and a freestanding concrete block wall.

The south façade faces the parking lot and is fronted by a narrow strip of vegetation. The façade is asymmetrical and features two distinct volumes united under a deep, closed eave. To the west is the main library volume. It is preceded by a large magnolia tree in a raised planter and a fenced, outdoor storage area. The first and second stories of the west half of the façade are visually separated by a projecting eave with a wide fascia, which shelters a walkway at ground level. The first story is lined with floor-to-ceiling fixed metal windows and flush metal doors. Alternating bays of concrete block and floor-to-ceiling windows comprise the second story. The east half of the south façade is set back from the west and is partially obscured by a tall freestanding concrete block wall. This half is clad in smooth stucco and lacks fenestration. At the center of the façade is a double-height glazed entrance consisting of non-original paired doors and grouped fixed windows. A series of concrete steps lead to a hexagonal tiled entrance landing, and a concrete block wall, perpendicular to the entrance, features an original metal sculpture by local artist David Green.

The west façade faces a low dividing wall between the library and adjacent property. The south half of the façade is further set back and is fronted by a small paved parking area. It is clad in concrete block with little articulation. Aside from a few small rectangular windows on the north half and an emergency stairway with a flush metal door near the center, the façade is devoid of fenestration.

## Existing Conditions Photographs



*View west of the east (primary) façade (ARG, 2019).*



*View southwest of the recessed main entrance plaza. Note the hexagonal tile floor (ARG, 2019).*



*View north of the upper footbridge, which provides access to the main (east) entrance (ARG, 2019).*



*View south of the north façade. Note mature trees in the foreground (ARG, 2019).*



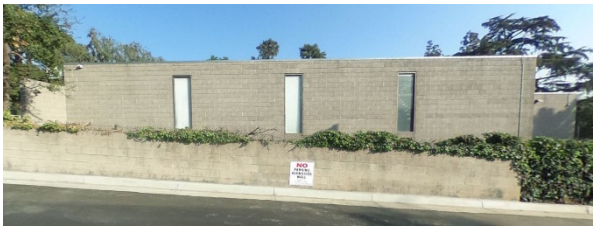
*View east of dense vegetation fronting the north façade (ARG, 2019).*



*View northeast of the south façade (ARG, 2019).*



*View west of the south façade. Note the concrete block wall screening the south entrance and original planters (ARG, 2019).*



*View east of the west façade (ARG, 2019).*

## 3.3 Building, Interior

The interior of the library is defined by its open-air feel and lack of partitions. It is dominated by one large central space where patron spaces coexist and allow for the melding of adult, teen, and children's technology and books. The space is finished with a dropped acoustic tile ceiling and non-original carpeting.

At the core of the main space is the library's reading court, a slightly sunken, rectangular area encircled by globe lights atop wood posts and wood handrails. Its overhead skylight and hanging wooden trellis mirror the rectangular footprint of the reading court. The court's floor is finished in the same hexagonal tiles as the east and south exterior entrances. Seating and desks are organized around three variably sized, cast-in-place concrete planters that reflect Georgi's modernist ideals of creating fluidity between outdoor and indoor elements. A wood-paneled screen divides the court into adult and children's areas.

North of the reading court is the information desk and computer bays. To the south and west are the library's children's and adult/teen stacks, respectively. The stacks are spatially defined by lower ceiling heights compared to the double-height main space.

To the northeast of the central space are glass-enclosed administrative offices, and directly east of the reading court is the library's main entrance. To the southeast is the south entrance vestibule, which sits a level below the main floor and is accessed by a flight of wide stairs with wood handrails. To the east of the entrance vestibule is the community room, accessed by a flush wood door, and to the west are gendered bathrooms, also entered through flush wood doors. Adjacent to the wide stairs is another flush wood door that leads to the administrative and storage areas. This lower entry level is characterized by its use of structural concrete block walls, glass, wood paneling, and smooth stucco.

### Existing Conditions Photographs



*Interior view west of the main library space (ARG, 2019).*



*Interior view north of the main library space (ARG, 2019).*



*View northeast of the reading court. Note the globe light fixtures, trellis, and skylight (ARG, 2019).*



*View inside the reading court. Note the hexagonal tile floor and concrete planters (ARG, 2019).*

# 4. Character-Defining Features

A character-defining feature is an aspect of a building's design, construction, or setting that is illustrative of its reasons for significance. Character-defining elements may include the overall shape of the building, its materials, craftsmanship, and decorative details, as well as the various aspects of its site and environment. The character-defining features of a building are essential to its ability to convey and retain its significance.

## 4.1. Site and Landscape

- Undulating, sloped topography
- Lush, mature vegetation
- Concrete planters and freestanding concrete block walls
- Concrete walkways and steel-framed footbridges with globe lanterns and wood decking

## 4.2. Building, Exterior

- Irregularly shaped plan
- Two-story height with three intersecting levels
- Low-lying, horizontal massing, built into the natural terrain of the site
- Multi-level flat roofs with closed eaves and wide fascia, emphasizing the horizontality of the building's design

- Exposed concrete block walls and smooth stucco cladding
- Unassuming recessed entrances
- Grouped fixed metal windows, both floor-to-ceiling and clerestory
- Metal doors, both flush and fully glazed (some of the actual doors have been replaced)
- Double-height, glazed east (main) entrance that allows for natural light and provides an important reveal when transitioning from indoor to outdoor
- Metal wall-mounted sculptures (two) by local artist David Green

## 4.3. Building, Interior

- Large open space comprising the main level with smaller enclosed spaces along the perimeter
- Sunken reading court with concrete planters, wood-paneled screen, globe lanterns, tiled floor, trellis, and skylight
- Concrete block walls
- Wood paneled accent cladding in the community room and south entry vestibule

# 5. Chronology of Development and Use

| | |
|---|---|
| 1961 | The Trustees of the Altadena Library purchase the Colonel George G. Green Estate for $65,000.[4] |
| 1962 | The Friends of the Altadena Library conducts a survey that indicates the need for a library four times the size of the 1936 library at Lake Avenue to serve the community's increased population.[5] |
| 1963 | A $500,000 bond is passed to partially fund the construction of a larger, modern library. The rest of the funding ($250,000) is provided through a Library Services and Construction Act federal grant.[6] |
| 1965 | The subject property is formally dedicated as the future site of the new library during National Library Week.[7] |
| 1966 | The Green Estate is subdivided, and the house is razed to make way for the new Altadena Main Library. (The original carriage house remains and is a private residence located on the adjacent parcel.)[8] Construction of the library begins in July 1966.[9] |
| 1967 | The Altadena Main Library is built. It is designed by noted Southern California architect, Boyd Georgi, in collaboration with landscape architects Eriksson, Peters & Thoms.[10] The contractor is R. C. Gallyon.[11]<br><br>The library's dedication, including a simple ribbon cutting ceremony, is held on August 28, 1967.[12] |
| 1967-69 | Georgi receives awards for the library's design from the Pasadena Chapter of the American Institute of Architects (AIA) and the Pasadena Beautiful Foundation.[13] |

[4] Elizabeth Hutchings, "The Altadena Public Library Headquarters Building," *News Notes of California Libraries* 64, no. 4 (1969): 379.

[5] "Altadena Library, 1908-1967," Altadena, CA, 1968, 7.

[6] "Altadena Library, 1908-1967," 7; Hutchings, 381.

[7] "Altadena Library 1908-1967," 8.

[8] Hutchings, 381.

[9] "Altadena Library, 1908-1967," 10.

[10] Ibid, 10-11.

[11] "$750,000 Library Opens in Altadena," *Los Angeles Times*, August 29, 1967.

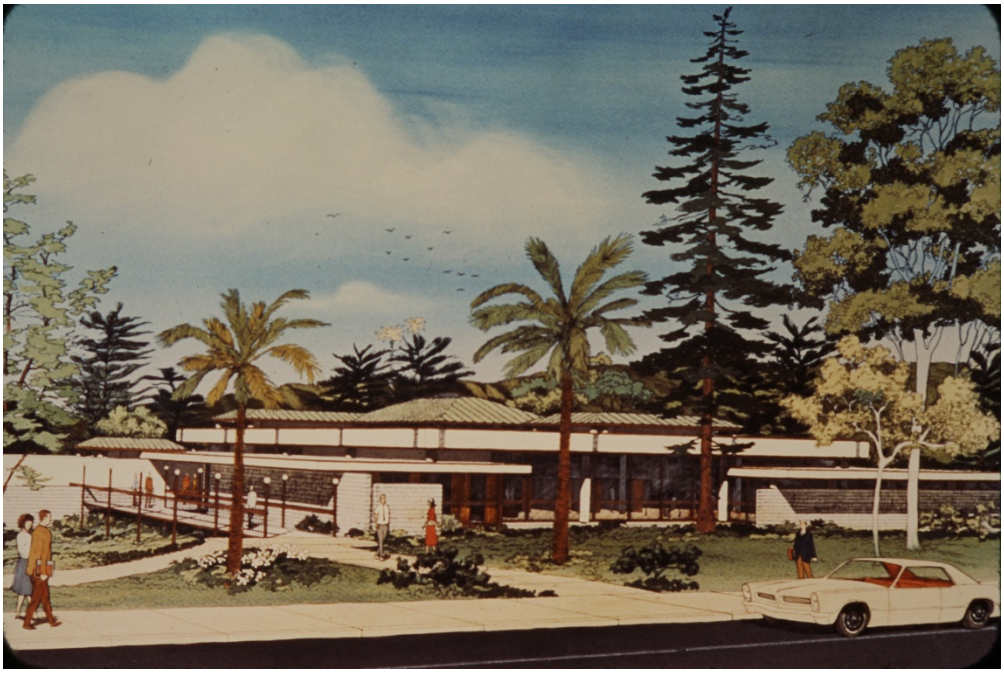
[12] "Altadena Library, 1908-1967," 10.

[13] Barbara Lamprecht, "Puelicher House, 901 Laguna Road, Pasadena," City of Pasadena Historic Designation Application, April 20, 2018, 15.

## Historic Photos and Images



*Altadena Main Library, east façade and landscape, 1969 (News Notes of California Libraries).*



*Altadena Library, watercolor rendering, n.d. (Altadena Library District).*



*Altadena Library interior reading court, 1960s (Altadena Library District).*

# 6. Historical Background and Context

## 6.1. Early History of Altadena

Originally subdivided by Iowans John and Fred Woodbury in the late 1880s, Altadena remained a quiet farming community and the winter home for many wealthy Midwesterners and Easterners through the first half of the 20th century. Though the community experienced a slight population increase in the 1930s and '40s, reaching approximately 20,000 residents, it retained much of its rural character until after the Second World War. As with much of Southern California, Altadena witnessed a tremendous population and development boom in the postwar period. The community's remaining open land was quickly converted into suburban housing for America's newly upwardly mobile middle class, and the community reached its present-day population (around 40,000) by the early 1950s.[14]

## 6.2. The Expansion of Libraries in the Post-World War II Period

Since the beginning of recorded history, libraries have existed as a critical component in the collection materials for the communication and dissemination of information. The first period of significant change in the history of the American library came with the expansion of high-speed printing and the availability of cheap paper made possible by the industrial revolution. During the late 1890s, businessman and philanthropist Andrew Carnegie transformed the nation's public library system through his funding of 1,679 libraries in 1,412 communities, including over 140 libraries in California. Between 1890 and 1910, libraries across the country had standardized bibliographic recordation, greatly increased their collections, and expanded the librarians' role from "caretaker to provider of information services."[15]

The nation's library system experienced a second major transition following the end of World War II. During the postwar period, communities witnessed unprecedented growth in the number of school-age children as well as a vast expansion of research and new fields of study on university campuses. New libraries appeared in neighborhoods and campuses throughout the country to accommodate students and their rapidly growing collections.[16] By the mid-1950s, California had over 1,500 libraries, including 146 municipal libraries and 51 county libraries. Los Angeles County was home to 27 public libraries, the most of any other county in the state.[17] In order to support the development of new libraries, the federal government created an Advisory Commission of Libraries, and in 1964, the Library Services and Construction Act was enacted to provide federal assistance to libraries for improving facilities and

[14] Altadena Heritage, "A Very Short History of Altadena," accessed February 2020, https://altadenaheritage.org/a-very-short-history-of-altadena/.
[15] Warren J. Haas, "America's Libraries: Distinguished Past, Difficult Future," Proceedings of the American Philosophical Society 140, no. 2 (1996): 126.
[16] **Haas, 127.**
[17] "California Libraries: Annual Statistics," *News Notes of California Libraries*, 50, no. 1 (1955): 26-27.

undertaking construction projects. In 1967, the same year the Altadena Main Library was constructed, over $5 million of federal funds were granted for the construction and improvement of public libraries.[18]

## 6.3. Development of the Altadena Library

Altadena's first library was established in 1908 in a three-room schoolhouse on Calaveras Street, sponsored by the Child's Study Circle of Altadena. Five years later, the library grew to include an adult collection and became part of the Los Angeles County library system. In 1918, with the assistance of the Women's Circle of Altadena, the library expanded with a second location at the then Andrew Jackson School, and the first librarian was hired. In 1926, the Altadena Library District was formed as an independent special district under the California Education Code.[19]

Altadena received its first permanent library building in the 1936. Located at 2366 N. Lake Street, the building was constructed with Works Progress Administration (WPA) funding to service the town's some 23,000 residents. The classical building (still extant) was designed by local architect Frederick Marsh. In 1957, library's branch location, originally near the southwest community limits, was moved to a more central location at 2659 Lincoln Avenue. Originally the Arroyo Seco Branch Library, the modest Mid-Century Modern building is now known as the Bob Lucas Memorial Branch Library.[20]

In the late 1950s, the Trustees of the Altadena Library, along with the newly formed Friends of the Altadena Library (1959), began discussions regarding the creation of a larger, modern main library building to serve the community's residential population, which had doubled in the postwar period. In 1961, the Trustees acquired approximately two acres of land comprising the former Colonel Green Estate at the corner of Mariposa Street and Santa Rosa Avenue. The following year, the Friends of the Altadena Library conducted a survey which indicated the need for a library four times the size of the then main library at Lake Avenue.[21] With the help of the Friends, a $500,000 bond was passed in 1963 to partially finance the new library's construction. The Altadena Library District received an additional $250,000 from a Library Services and Construction Act federal grant to fund the rest.[22] Noted Southern California architect Boyd Georgi won the competition to design the new building, and landscape architects Eriksson, Peters & Thoms were contracted to design its landscape.[23]

The library's dedication was held on August 28, 1967.[24] With the construction of its new building, the Altadena Library District was able to greatly expand its book collection as well as the amenities it provided to Altadena and the surrounding communities. As described in a 1969 "News Notes of California Libraries" article:

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[18] "California Libraries: Annual Statistics," *News Notes of California Libraries*, 63, no. 1 (1968): 23.
[19] Altadena Libraries, "History," accessed February 2020, https://www.altadenalibrary.org/about-the-district/.
[20] Altadena Libraries, "The Altadena Library: A Historical Perspective Leading to our 50th Anniversary," *Connect* 11, no. 10 (October 2016): 3.
[21] "Altadena Library, 1908-1967," 7.
[22] "Altadena Library, 1908-1967," 7; Hutchings, 381.
[23] "Altadena Library 1908-1967," 10-11.
[24] Ibid, 10.

> The [library's] community room…reflects in many ways the special role the library now plays in Altadena. The library has, of course, grown tremendously in services it can offer—records, films, larger book collection and increased patron use…
>
> But the community room has grown into the flexible kind of meeting place and cultural center that was formerly lacking in Altadena. Its uses have been constant and varied: for meetings for local organizations, for films and lectures, for Friends-sponsored activities such as book sales, book reviews, and summer art classes conducted by local artists.[25]

The Altadena Main Library continues to provide a range of services to some 50,000 residents in Altadena and adjacent communities.

## 6.4. Mid-Century Modern Architecture

The Altadena Main Library is designed in the Mid-Century Modern style. "Mid-Century Modern" is a broad term that is used to describe the various derivatives of Modern architecture that flourished in the post-World War II period. These include post-war adaptations of the International Style, post-and-beam construction, and more organic and expressive interpretations of the Modern architectural movement. Mid-Century Modernism was popular between the mid-1940s and early 1970s.[26] It proved to be a remarkably adaptable and versatile idiom that was expressed through an array of property types including single-family residences, large-house housing tracts, commercial buildings, corporate high rises, institutional properties and industrial campuses. Its aesthetic was incorporated into both high-style buildings and the local vernacular and was employed by architects and developer-builders alike.

Mid-Century Modernism is rooted in various experiments in Modern architecture that were introduced in the early 20th century. The International Style, which emerged out of Europe in the 1920s, presented a cogent approach to design that was characterized by simple geometric forms, smooth wall surfaces, the honest expression of structure and materials, and the absence of superfluous ornament.[27] At about the same time, a small group of innovative American architects including Louis Sullivan, Frank Lloyd Wright and Irving Gill were also dabbling in experimental new forms, methods, and materials in their quest to develop an indigenous style of American architecture.[28]

By the late 1940s, these regional experiments in early Modernism, coupled with the influence of European émigrés, had coalesced into a discrete iteration of postwar Modernism known as the Mid-Century Modern style. The Mid-Century Modern style reflected how earlier movements such as the International style, the Bauhaus, and domestic experiments in Modernism were adapted and reinterpreted to meet the needs of the American public after World War II. Defined by expressed post-

[25] Hutchings, 385.
[26] City of Los Angeles, "SurveyLA Los Angeles Citywide Historic Context Statement, Context: Architecture and Engineering, Sub-Context: L.A. Modernism, 1919-1980," prepared by Architectural Resources Group for the City of Los Angeles, Department of City Planning, Office of Historic Resources, 2019.
[27] Natalie W. Shivers, "Architecture: A New Creative Medium," in *LA's Early Moderns: Art/Architecture/ Photography* (Los Angeles: Balcony Press, 2003), 132.
[28] Ibid, 124.

and-beam construction, simple geometric forms, flat and low-pitched roofs, and simple facades that were articulated with economical materials like brick, wood, and stone, the style gained popularity because its use of standardized, prefabricated materials permitted quick and economical construction, and also since it clearly expressed the nation's prevailing sense of prosperity.[29]

Different regional variants of the Mid-Century Modern style emerged in the postwar period, as the Modern movement became mainstream and Modern architectural styles became more prolific. One of these variants specific to the Los Angeles region is known as the "USC style" or "Pasadena style." Deriving influence from the post-and-beam method of construction, this style emerged through the work of a group of young architects who had studied at the University of Southern California (USC) School of Architecture in the early postwar years, including Smith and Williams; Buff, Straub and Hensman; Ladd and Kelsey; and Boyd Georgi, among others. These architects developed a derivative of Modern architecture defined by a distinctive vocabulary that was characterized, first and foremost, by its use of post-and-beam construction and direct relationship with the geography and landscape of the region. Other distinguishing features include open floor plans, expanses of plate glass, and a blurring of lines between indoor and outdoor spaces. It was often applied to houses and other building types in the greater Pasadena area, where many of these USC alumni lived and worked. This derivative of Modernism was widely replicated across Southern California and became an integral part of the region's post-World War II architectural landscape.[30]

Character-defining features of Mid-Century Modernism (and specifically the Post-and-Beam style) include:

- Direct expression of the structural system, often wood or steel post-and-beam
- Flat roof, at times with wide overhanging eaves
- Floor-to-ceiling windows, often flush-mounted metal framed
- Horizontal massing
- Simple, geometric volumes
- Unornamented wall surfaces
- Open floor plans
- Blurring of lines between indoor and outdoor spaces

## 6.5. Boyd Georgi, Architect

Despite being a contemporary of many talented architects and designers in Southern California, Boyd Georgi stands apart in his dedication to and prevalence in Altadena. He was an active member of the burgeoning Altadena community and created some of its most important buildings, many of them as revered today as when they were built. Born in San Diego in 1914 and raised in Alhambra, Georgi pursued his architectural education at the University of Southern California (USC) School of Architecture in the

[29] Ibid.

[30] City of Los Angeles, "SurveyLA Los Angeles Citywide Historic Context Statement, Context: Architecture and Engineering, Sub-Context: L.A. Modernism, 1919-1980."

1930s. Georgi attended USC while under the leadership of Dean Arthur Weatherhead.[31] Weatherhead's curriculum focused on the realities of American residential life and inspired his students to seek pragmatic but creative designs focused on innovation. Upon graduation, Georgi's education continued in several prominent architectural offices such as Marsh, Smith & Powell and Risley & Gould.

Georgi's training in Modernism aligned with the prevailing architectural sentiment at the time and guided his work from the 1940s through the '60s. As made evident by *Los Angeles Times* newspaper articles such as "Visibility Unlimited," "A Garden House," and "How to Handle a 45-Foot Lot," Boyd Georgi and his residential designs of the 1950s were documented as examples of the prevailing concepts of that era, notably the use of indoor-outdoor living spaces, open floor plans, post-and-beam construction, and the integration of a building with its natural surroundings. Boyd Georgi was well known for his residential work, including the design of the Muller House (Monrovia, 1949), as well as his own house (located at 1704 Skyview Dr. in Altadena, 1954), both of which received awards from the Pasadena Chapter of American Institute of Architects (AIA).[32]

Georgi's portfolio of projects expanded in the late 1950s, during which he designed a number of schools and other public buildings, including Arthur Amos Noyes Elementary School in Altadena (received an Honor Award in 1957 from the AIA, Pasadena Chapter) the Dana School in Arcadia, and the Altadena Community Church. Between 1969 and 1983, he served as District Architect for the Pasadena Unified School District.[33]

Despite being a public building, the Altadena Main Library embraced many of the residential concepts that guided Georgi's work. These concepts included the thoughtful placement and use of glass to create interior spaces that felt connected to the exterior environment, as well as his integration of the building into its sloped site. Re-occurring strategies, experimented and tested throughout his career, culminated in the success of the library, which was recognized by the Pasadena Chapter of the AIA and Pasadena Beautiful Foundation for its outstanding design.[34]

Boyd Georgi died in October 1999 at his home in Laguna Beach. His career spanned nearly five decades.[35]

## 6.6. Eriksson, Peters & Thoms, Landscape Architects

The Altadena Main Library's landscape was designed by the landscape architecture firm Eriksson, Peters & Thoms (which later became known as EPT, still in practice today). Robert Eriksson, Owen Peters, and Dave Thoms established their practice in Pasadena in 1962.[36] The firm's early work was mostly residential, including for individual residences such as the Harvey L. Silbert house (published in the *Los Angeles Times*

[31] Lamprecht, 11.
[32] Historic Resources Group and Pasadena Heritage, "Cultural Resources of the Recent Past Historic Context Report," prepared for the City of Pasadena, October 2007, 82; Lamprecht, 11.
[33] Historic Resources Group and Pasadena Heritage, 82.
[34] Hutchings, 379.
[35] "Georgi, Boyd E.," *Los Angeles Times*, October 22, 1999.
[36] "In Memoriam: Owen Peters," *Landscape Architect*, accessed February 2020, https://landscapeonline.com/research/article-a.php?number=3235.

*Home Magazine*, 1965), as well as for large planned communities, such as the $25 million Tustin Meadows residential development (1968).[37] Throughout the 1960s, the firm, most notably Eriksson and Peters, contributed to various home garden articles published in the *Los Angeles Times*. By the late 1960s, the firm's practice had expanded to encompass institutional projects, including for clients such as the Pacific Asia Museum, Pasadena Unified School District, Caltech, and Altadena Library District.[38] In 1973, President Nixon presented Eriksson, Peters & Thoms with an award for outstanding contributions to environmental improvement for their work on the C. F. Braun Company campus in Alhambra.[39]

Owen Peters was a Fellow of the American Society of Landscape Architects (ASLA). He served as both the Southern California Chapter and national President of the ASLA; he was a Member of the Advisory Committee of Cal Poly Pomona's College of Environmental Design; and he was on the California State Board of Landscape Architects. Peters died on October 26, 2000 in Sioux City, Iowa.[40] Robert Eriksson, also a Fellow of the ASLA, continues his landscape architecture practice with Robert Eriksson Landscape Architecture, which he established in 1995.[41]

# 7. Regulations and Criteria for Evaluation

## 7.1. National Register of Historic Places

The National Register is the nation's master inventory of known historic resources. Created under the auspices of the National Historic Preservation Act of 1966, the National Register is administered by the National Park Service (NPS) and includes listings of buildings, structures, sites, objects, and districts that possess historic, architectural, engineering, archaeological, or cultural significance at the national, state, or local level. As described in National Register Bulletin 15: *How to Apply the National Register Criteria for Evaluation*, in order to be eligible for the National Register, a resource must both (1) be significant and (2) retain sufficient integrity to convey its significance.

Significance is assessed by evaluating a resource against established criteria for eligibility. A resource is considered significant if it satisfies any one of the following four National Register criteria:[42]

1. Associated with events that have made a significant contribution to the broad patterns of our history;

2. Associated with the lives of significant persons in our past;

[37] Dick Turpin, "$25 Million Tustin Meadows Opens in Park-Like Setting," *Los Angeles Times*, January 28, 1968.
[38] Ann Scheid Lund, *Historic Pasadena: An Illustrated History* (San Antonio: Historical Publishing Network, 1999), 206.
[39] "Area Architect Receives White House Honor," *South Pasadena Review*, April 25, 1973.
[40] "In Memoriam: Owen Peters."
[41] "Robert M. Eriksson," *Landscape Architect*, accessed February 2020, http://www.landscapeonline.com/research/article-a.php?number=15572. Research did not produce substantial documentation on the history or career of EPT's third principal, Dave Thoms.
[42] Some resources may meet multiple criteria, though only one needs to be satisfied for National Register eligibility.

3. Embodies the distinctive characteristics of a type, period, or method of construction, or that represents the work of a master, or that possesses high artistic values, or that represents a significant and distinguishable entity whose components may lack individual distinction;

4. Has yielded, or may be likely to yield, information important in prehistory or history.

Once significance has been established, it must then be demonstrated that a resource retains enough of its physical and associative qualities – or integrity – to convey the reason(s) for its significance. Integrity is best described as a resource's "authenticity" as expressed through its physical features and extant characteristics. Whether a resource retains sufficient integrity for listing is determined by evaluating the seven aspects of integrity defined by the NPS:

1. Location (the place where the historic property was constructed or the place where the historic event occurred);

2. Setting (the physical environment of a historic property);

3. Design (the combination of elements that create the form, plan, space, structure, and style of a property);

4. Materials (the physical elements that were combined or deposited during a particular period of time and in a particular manner or configuration to form a historic property);

5. Workmanship (the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory);

6. Feeling (a property's expression of the aesthetic or historic sense of a particular period of time); and

7. Association (the direct link between an important historic event/person and a historic property).

Integrity is evaluated by weighing all seven of these aspects together and is ultimately a "yes or no" determination – that is, a resource either retains sufficient integrity or it does not.[43] Some aspects of integrity may be weighed more heavily than others depending on the type of resource being evaluated and the reason(s) for its significance. Since integrity depends on a resource's placement within a historic context, integrity can be assessed only after it has been established that the resource is significant, and under which criteria.

Generally, a resource must be at least 50 years of age to be eligible for listing in the National Register. Exceptions are made if it can be demonstrated that a resource less than 50 years old is (1) of exceptional importance or (2) is an integral component of a historic district that is eligible for the National Register.

[43] Derived from National Register Bulletin 15, Section VIII: "How to Evaluate the Integrity of a Property."

## 7.2 California Register of Historical Resources

The California Register is the authoritative guide to the State's significant historical and archeological resources. In 1992, the California legislature established the California Register "to be used by state and local agencies, private groups, and citizens to identify the state's historical resources and to indicate what properties are to be protected, to the extent prudent and feasible, from substantial adverse change." The California Register program encourages public recognition and protection of resources of architectural, historical, archaeological, and cultural significance; identifies historical resources for state and local planning purposes; determines eligibility for historic preservation grant funding; and affords certain protections under CEQA. All resources listed on or formally determined eligible for the National Register are automatically listed in the California Register. In addition, properties designated under municipal or county ordinances, or through local historic resources surveys, are eligible for listing in the California Register.

The structure of the California Register program is similar to that of the National Register, but places its emphasis on resources that have contributed specifically to the development of California. To be eligible for the California Register, a resource must first be deemed significant at the local, state, or national level under one of the following four criteria, which are modeled after the National Register criteria listed above:

1. It is associated with events or patterns of events that have made a significant contribution to the broad patterns of local or regional history, or the cultural heritage of California or the United States; or

2. It is associated with the lives of persons important to local, California, or national history; or

3. It embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of a master, or possesses high artistic values; or

4. It has yielded, or has the potential to yield, information important to the prehistory or history of the local area, state, or the nation.

Like the National Register, the California Register also requires that resources retain sufficient integrity to be eligible for listing. A resource's integrity is assessed using the same seven aspects of integrity used for the National Register. However, since integrity thresholds associated with the California Register are generally less rigid than those associated with the National Register, it is possible that a resource may lack the integrity required for the National Register but still be eligible for listing in the California Register.

There is no prescribed age limit for listing in the California Register, although California Register guidelines state that "sufficient time must have passed to obtain a scholarly perspective on the events or individuals associated with the resource."

Resources may be nominated directly to the California Register. They are also automatically listed in the California Register if they are listed in or have been officially determined eligible for the National Register. State Historic Landmarks #770 and forward are also automatically listed in the California Register.

The California Historical Resource Status Codes are a series of ratings created by the California Office of Historic Preservation (OHP) to identify the historic status of resources listed in the State's historic properties database. These codes were revised in August 2003 to better reflect the many historic status options available to evaluators. The following are the seven major status code headings:

1. Properties listed in the National Register or the California Register.
2. Properties determined eligible for listing in the National Register or the California Register.
3. Properties that appear eligible for listing in the National Register or California Register through survey evaluation.
4. Properties that appear eligible for listing in the National Register or California Register through other evaluation.
5. Properties recognized as historically significant by local government.
6. Properties that are not eligible for listing or designation.
7. Properties that are not evaluated for listing in the National Register or California Register or that need reevaluation.

Under each status code heading, properties are then given a letter code, which indicates whether the resource is eligible individually (S), eligible as part of a district (D), or both (B).

## 7.3 Los Angeles County

The Los Angeles County Historic Preservation Ordinance was adopted by the County Board of Supervisors on September 1, 2015. According to the Ordinance, in order to be determined eligible for designation as a historic landmark, an individual resource (structure, site, object, tree, landscape, or natural land feature) must satisfy one or more of the following criteria:

A.1. It is associated with events that have made a significant contribution to the broad patterns of the history of the nation, State, County, or community in which it is located;

A.2. It is associated with the lives of persons who are significant in the history of the nation, State, County or community in which it is located;

A.3. It embodies the distinctive characteristics of a type, architectural style, period, or method of construction, or represents the work of an architect, designer, engineer, or builder whose work is of significance to the nation, State, County, or community in which it is located; or possesses artistic values of significance to the nation, State, County, or community;

A.4. It has yielded, or may be likely to yield, significant and important information regarding the prehistory or history of the nation, State, County, or community in which it is located;

A.5. It is listed, or has formally been determined eligible by the United States National Park Service for listing, in the National Register of Historic Places, or is listed, or has been formally determined eligible by the State Historical Resources Commission for listing, on the California Register of Historical Resources;

A.6. If it is a tree, it is one of the largest or oldest trees of the species located in the County; or

A.7. If it is a tree, landscape, or other natural land feature, it has historical significance due to an association with a historic event, person, site, street, or structure, or because it is a defining or significant outstanding feature of a neighborhood.[44]

[44] County of Los Angeles, Department of Regional Planning, Historic Preservation Ordinance, Chapter 22.124, Planning and Zoning, Volume 1, adopted September 1, 2015.

# 8. Evaluation of Significance

## 8.1. Previous Evaluations and Designations

The subject property has not been formally designated under any federal, state, or local designation program. According to information published on the Altadena Heritage website, the library may have been identified through a historic resources survey and assigned the California Historical Resource Status Code 3CD (appears eligible for the California Register as a contributor to a California Register-eligible district through a survey evaluation).[45] However, the building is not included in the California Historic Resources Inventory for Los Angeles County, and ARG could not confirm the provenance of this information through additional research.

## 8.2. Evaluation of Eligibility

The Altadena Main Library is eligible for listing in the National Register, California Register, and as a Los Angeles County Landmark under Criteria A/1/A.1 and C/3/A.3 for its association with the increase in civic services resulting from Altadena's postwar population boom as well as for being an excellent example of Mid-Century Modern architecture designed by noted architect Boyd Georgi. The property also appears eligible for listing as a Los Angeles County Landmark under Criterion A.7 for its integral landscape, designed by Eriksson, Peters & Thoms. The library's period of significance is 1967, corresponding with its date of construction.

### National Register and California Register

*National and California Register Criteria A/1: associated with events that have made a significant contribution to the broad patterns of history.*

The Altadena Main Library is significant for its association with the increase in civic services following Altadena's population increase after World War II. As with many Southern California communities, Altadena experienced a significant population boom in the postwar period, reaching its peak of approximately 40,000 by the early 1950s. Recognizing the need for new and expanded community offerings to serve its growing population, the Trustees of the Altadena Library, along with the Friends of the Altadena Library, began discussions regarding the creation of a larger, modern main library building. Completed in 1967 and partially funded by a federal grant made available by the Library Services and Construction Act, the new library housed a greatly expanded book collection as well as a community

[45] Altadena Heritage, "600 E Mariposa Street," *Altadena Heritage Architecture Database*, accessed February 2020, http://ahad.altadenaheritagepdb.org/properties/14288.

room, which provided an important meeting space and cultural center that Altadena had previously lacked. For these reasons, the library is eligible under Criteria A/1 of the National and California Registers.

*National and California Register Criteria B/2: associated with the lives of persons significant in our past.*

The subject property was historically and continues to be owned by the Altadena Library District. Research did not indicate that any of the individuals associated with the Altadena Library District were significant to the history of the city, state, or nation in a way that is directly associated with the library. Therefore, the building is not eligible under Criterion B or 2 of the National or California Registers.

*National and California Register Criteria C/3: embodies the distinctive characteristics of a type, period, or method of construction, or that represents the work of a master, or that possesses high artistic values, or that represents a significant and distinguishable entity whose components may lack individual distinction.*

The Altadena Main Library is significant for embodying the distinctive characteristics of the Mid-Century Modern style. Its strong horizontal emphasis (reflected in its multi-level flat roofs with closed eaves and wide fascia), simple rectangular massing, integration into the sloped topography of the site, extensive use of floor-to-ceiling glazing, and overall lack of applied ornamentation, make the building an excellent example of Mid-Century Modern architecture.

The library was designed by noted local architect Boyd Georgi. Practicing in Altadena and surrounding communities in the postwar period, Georgi was known for his deft ability at creating indoor-outdoor spaces as well as his integration of buildings into the natural terrain of their site, both characteristics that were applied to the library. Upon the library's completion, Georgi was recognized for its outstanding design by the Pasadena Chapter of the AIA and the Pasadena Beautiful Foundation.

*National and California Register Criteria D/4: has yielded or may likely yield information important in prehistory or history.*

An archaeological assessment was not within the scope of this study. As such, the property has not been evaluated for eligibility under Criterion D or 4 of the National or California Registers.

## Los Angeles County Landmark

*Los Angeles County Landmark Criterion A.1: It is associated with events that have made a significant contribution to the broad patterns of the history of the nation, State, County, or community in which it is located.*

As described in its evaluation under National/California Register Criteria A/1, the library is significant for its association with the rise in institutional development resulting from Altadena's burgeoning postwar population. Completed in 1967, the Main Library provided a greatly expanded book collection as well as new services in the form of its community room. For this reason, the property meets Los Angeles County Landmark Criterion A.1.

*Los Angeles County Landmark Criterion A.2: It is associated with the lives of persons who are significant in the history of the nation, State, County or community in which it is located.*

As stated in its above evaluation against National/California Register Criteria B/2, the building is not associated with any individuals significant to the history of the nation, State, County or community and is thus not eligible under Los Angeles County Landmark Criterion A.2.

*Los Angeles County Landmark Criterion A.3: It embodies the distinctive characteristics of a type, architectural style, period, or method of construction, or represents the work of an architect, designer, engineer, or builder whose work is of significance to the nation, State, County, or community in which it is located; or possesses artistic values of significance to the nation, State, County, or community.*

The Altadena Main Library is significant as an excellent example of Mid-Century Modern Architecture. As described in its above evaluation against National/California Register Criteria C/3, the building retains the essential characteristics of the style, including its horizontal emphasis, simple rectangular forms, extensive use of glazing, and lack of applied ornamentation. It is also representative of the work of noted Southern California architect Boyd Georgi, who was recognized for the library's design upon its completion. Thus, the property is eligible for listing under Los Angeles County Landmark Criterion A.3.

*Los Angeles County Landmark Criterion A.4: It has yielded, or may be likely to yield, significant and important information regarding the prehistory or history of the nation, State, County, or community in which it is located.*

As an archaeological assessment was not within the scope of this study, the property has not been evaluated under Los Angeles County Landmark Criterion A.4.

*Los Angeles County Landmark Criterion A.5: It is listed, or has formally been determined eligible by the United States National Park Service for listing, in the National Register of Historic Places, or is listed, or has been formally determined eligible by the State Historical Resources Commission for listing, on the California Register of Historical Resources.*

The property has not been listed or formally determined eligible for listing in the National/California Registers and thus does not meet Los Angeles County Landmark Criterion A.5.

*Los Angeles County Landmark Criterion A.6: If it is a tree, it is one of the largest or oldest trees of the species located in the County.*

Though the property contains multiple mature trees, research did not indicate that the trees are the largest or oldest of their species in the County. Thus, the property does not meet Los Angeles County Landmark Criterion A.6.

*Los Angeles County Landmark Criterion A.7: If it is a tree, landscape, or other natural land feature, it has historical significance due to an association with a historic event, person, site, street, or structure, or because it is a defining or significant outstanding feature of a neighborhood.*

Designed by local landscape architects Eriksson Peters & Thoms, the subject property is lushly landscaped with mature shade trees and ground cover, interspersed amongst patches of lawn. The site's dense, mature vegetation, in addition to its historic concrete paths and steel-framed footbridges, further

enhance the library's indoor-outdoor feeling and integration with its natural surroundings. Though smaller landscaped areas that once framed historic gathering spaces have become less articulated with the addition/removal of plants over time, the overarching design implemented by Eriksson Peters & Thoms is still apparent. The landscape is integral to the property's overall design and thus associated with the significance of the library. The property is eligible under Los Angeles County Landmark Criterion A.7.

## 8.3. Evaluation of Integrity

In addition to meeting Criteria A/1/A.1 and C/3/A.3 of the National Register, California Register, and Los Angeles County Historic Preservation Ordinance, the library retains sufficient integrity to express its historic significance. Historic integrity is the ability of a property to convey its significance and is defined as "the authenticity of a property's historic identity, evidenced by the survival of physical characteristics that existed during the property's prehistoric or historic period."[46] The aspects of integrity, as defined by the National Park Service, are location, design, setting, materials, workmanship, feeling, and association.

*Location: the place where the historic property was constructed or the place where the historic event occurred.*

The library remains at its original location and retains this element of integrity.

*Design: the combination of elements that create the form, plan, space, structure, and style of a property.*

The library has experienced no significant alterations affecting its form, plan, space, structure, or style since its construction. Minor alterations including replacement of entrance doors at the exterior, and the addition of a lower-level storage area and replacement of carpet and finishes on the interior, have had no impact on its Mid-Century Modern design. The complex retains this element of integrity.

*Setting: the physical environment of a historic property.*

The subject property's setting, sited on a medium-sized thoroughfare and surrounded by single-family residences with a few scattered institutional buildings, has remained the same since its construction. The property retains this aspect of integrity.

*Materials: the physical elements that were combined or deposited during a particular period of time and in a particular pattern or configuration to form a historic property.*

A few material alterations have occurred to the subject property, including the replacement of some smaller plantings, entrance doors, and interior carpet and furnishings. However, the vast majority of its original landscape and building materials (mature trees and concrete planters, concrete block and stuccoed walls, fixed metal windows, steel-framed bridge with wood decking, hexagonal tile at the entry and reading court) remain. As a result, the property retains integrity of materials.

[46] National Park Service, *National Register Bulletin 16A: How to Complete the National Register Registration Form* (Washington, D.C.: U.S. Department of the Interior, National Park Service, 1997), 4.

*Workmanship: the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory.*

Due to retention of original materials and features as described above, the library retains integrity of workmanship. Its craftsmanship continues to be conveyed through elements like the buildings' exposed concrete block and smooth stucco walls; wood accent cladding and hexagonal tile at the entrances and reading court; steel-framed footbridges with wood decking; and mature vegetation. The complex retains integrity of workmanship.

*Feeling: a property's expression of the aesthetic or historic sense of a particular period of time.*

As a readily recognizable example of Mid-Century Modern design, the Altadena Main Library is a direct expression of the modern architectural aesthetic that defined the commercial and institutional development of Altadena and surrounding communities in the postwar period. It has experienced few alterations and continues to express the aesthetic and historic sense from its original construction. Thus, the property retains this element of integrity.

*Association: the direct link between an important historic event or person and a property.*

While no singular historic events are known to be associated with the Altadena Main Library, the building is closely associated with Altadena's expansion of institutional services following World War II. It retains its location and overall setting and is recognizable as a significant civic building in the community. The complex provides a direct link to the historic pattern of development and retains integrity of association.

# 9. Conclusion

As a result of background research, site inspection, and evaluation under national, state, and county eligibility criteria, ARG finds that the Altadena Main Library is eligible for listing in the National Register, California Register, and as a Los Angeles County Landmark and therefore meets the definition of a "qualified historic structure" per the California Historical Building Code (Section 18955 of Division 13, Part 2.7 of Health and Safety Code).

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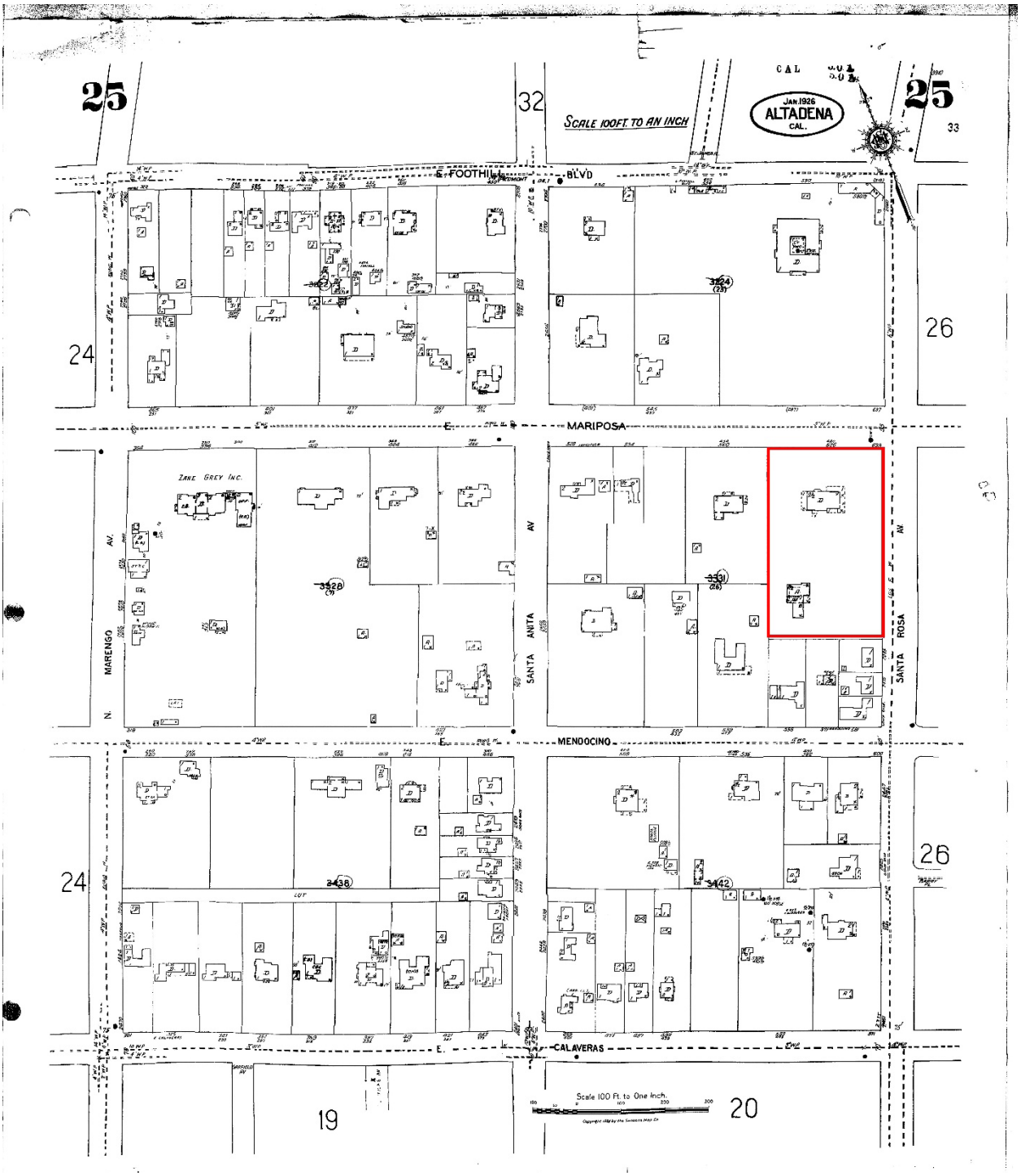
## Exhibit 1. Maps and Aerials




Sanborn Map, 1926, future site of Altadena Main Library outlined in red. Base image: Sanborn Fire Insurance Maps, courtesy Los Angeles Public Library




Location map, site outlined in red. Base image: maps.google.com

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## Exhibit 2. Existing Conditions Photos (2019)



View west of the east (primary) façade (ARG, 2019).



View southwest of the recessed main entrance plaza. Note the hexagonal tile floor (ARG, 2019).



View north of the upper footbridge, which provides access to the main (east) entrance (ARG, 2019).



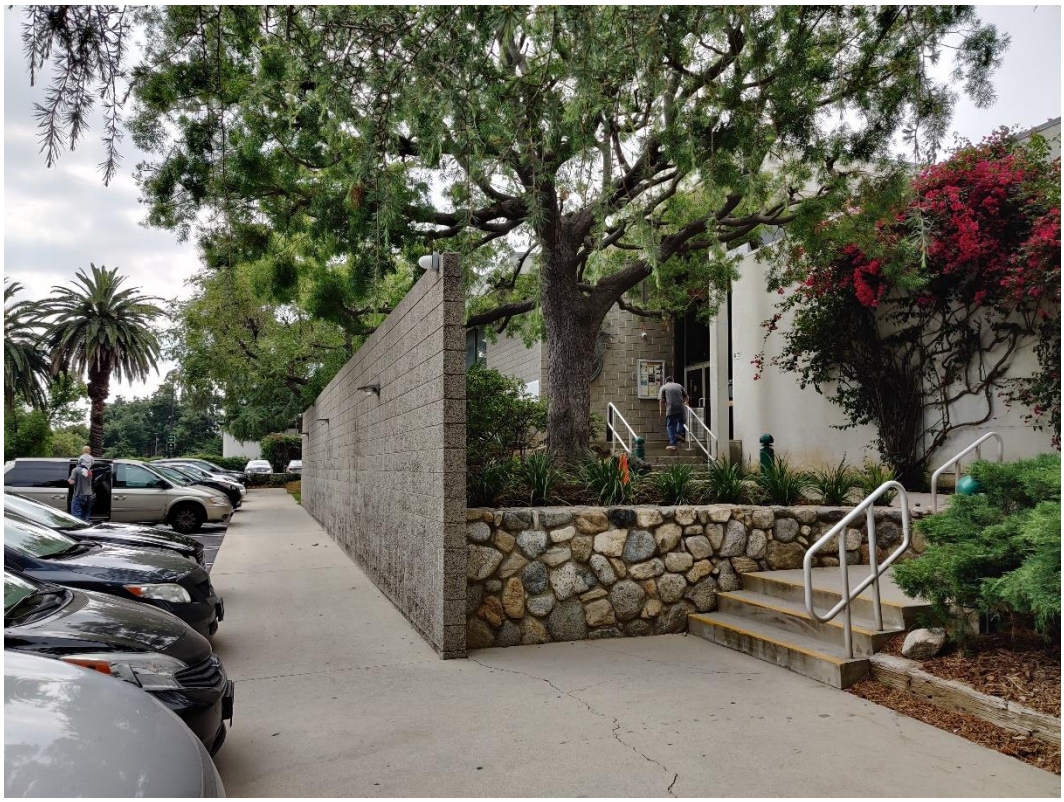
View south of the north façade. Note mature trees in the foreground (ARG, 2019).



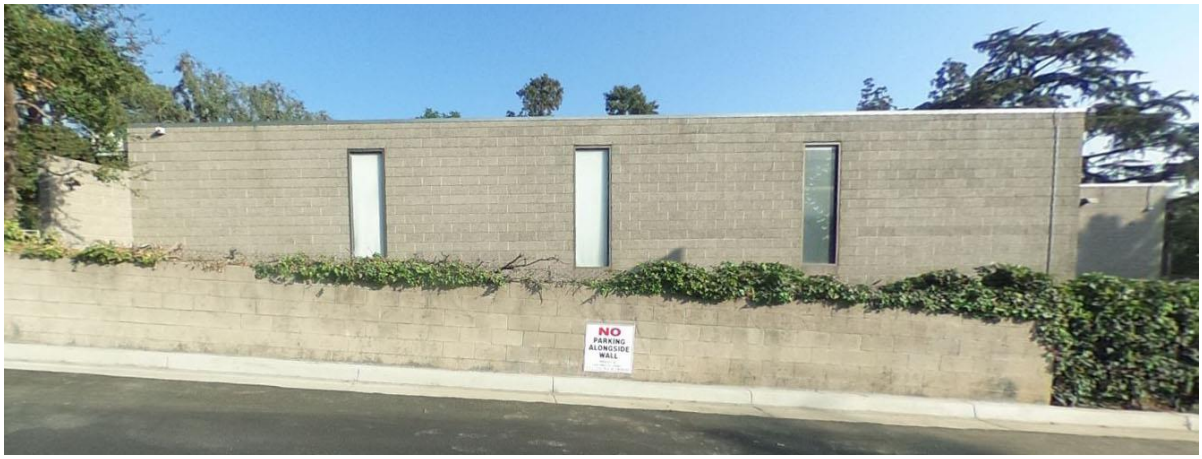
View east of dense vegetation fronting the north façade (ARG, 2019).



View northeast of the south façade (ARG, 2019).



View west of the south façade. Note the concrete block wall screening the south entrance and planters with mature landscaping (ARG, 2019).




View east of the west façade (ARG, 2019).



Interior view west of the main library space (ARG, 2019).



Interior view north of the main library space (ARG, 2019).



View northeast of the reading court. Note the globe light fixtures, trellis, and skylight (ARG, 2019).



View inside the reading court. Note the hexagonal tile floor and concrete planters (ARG, 2019).

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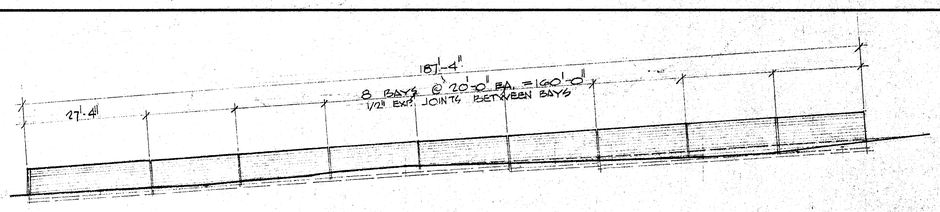
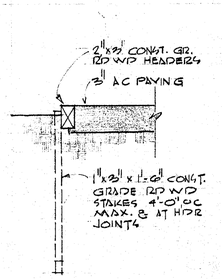
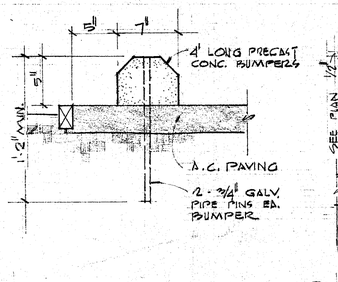
## Exhibit 3. Selected Original Drawings (1967)



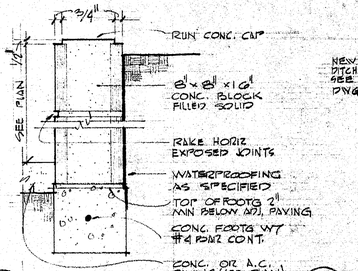

EAST ELEVATION OF WALL AT WEST PROP. LINE (1)
1/16" = 1'-0"



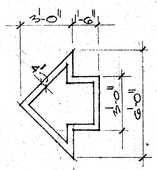

EDGE OF PAVING (2)
1½" = 1'-0"



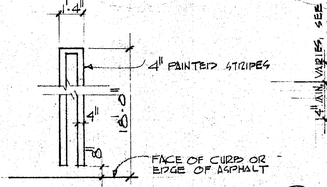

TYP. BUMPER (3)
1½" = 1'-0"



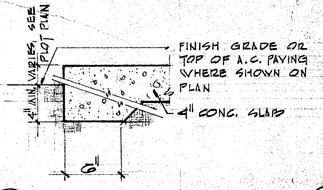

TYP RAISED PLANTER (4)
1½" = 1'-0"



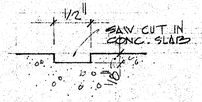

PAINTED ARROW (5)
¼" = 1'-0"



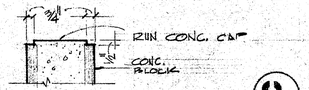

PARKING STALL STRIPING (6)
¼" = 1'-0"



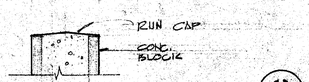

EDGE OF CONC. WALK (7)
1½" = 1'-0"



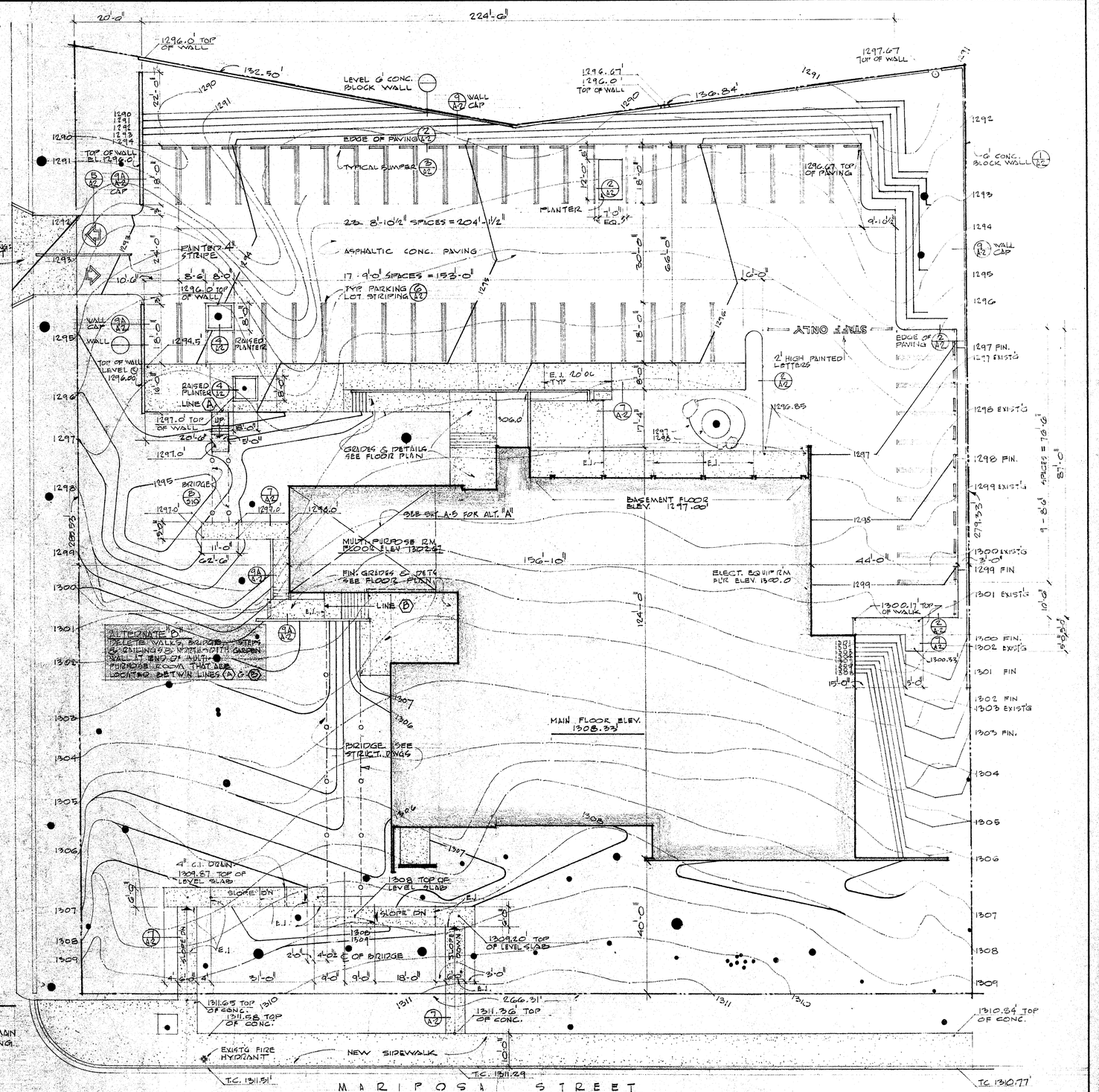

CONC. MARKING (8)
FULL SIZE




BLOCK WALL CAP (9A)




BLOCK WALL CAP (9)




LEGEND
- EXISTING GRADE
- FINISH GRADE
- EXISTING TREE TO REMAIN
- NEW CONCRETE PAVING
- PROPERTY LINE

SITE PLAN
1/16" = 1'-0"

APPROVED:

| STRUCTURAL ENGINEER | MECHANICAL ENGINEER | ELECTRICAL ENGINEER |
|---|---|---|
| HILLMAN, BIDDISON & LOEVENGUTH | THOS. H. PARRY & ASSOC. | WILLIAM H. KING |
| 624-8743 LOS ANGELES | PASADENA 792-2277 | PASADENA 792-5789 |

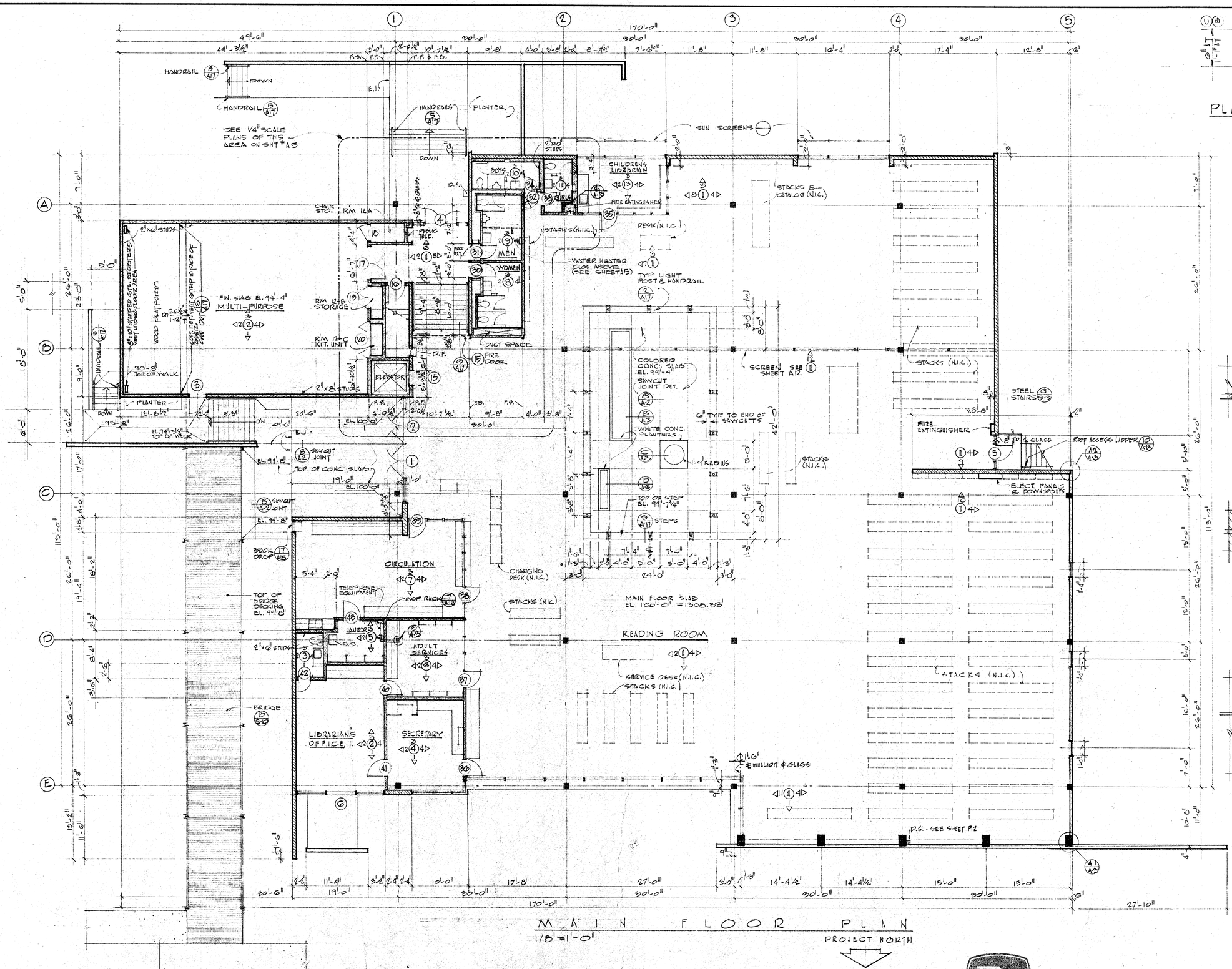
ALTADENA LIBRARY
FOR THE ALTADENA LIBRARY DISTRICT ALTADENA, CALIFORNIA

ARCHITECT
BOYD GEORGI AIA
681-2127 798-6734 1704 SKYVIEW DRIVE ALTADENA

DRAWN BY NORRIS
DATE AUG 19, '65

A-2
OF 18

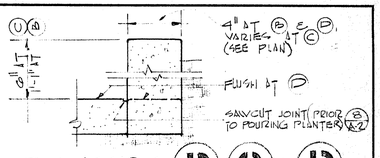
DIETERICH-POST CLEARPRINT 1000H



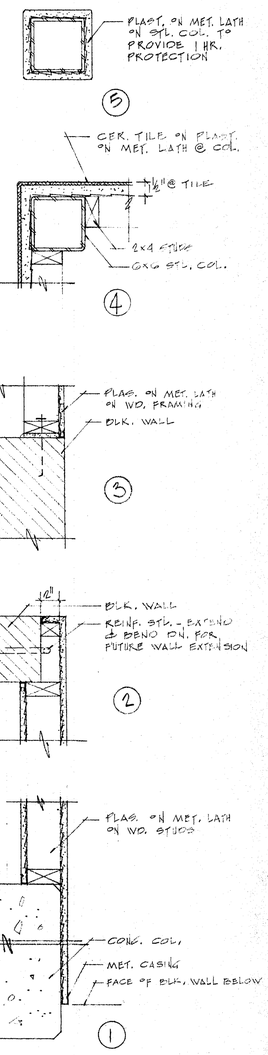

MAIN FLOOR PLAN

1/8" = 1'-0"

PROJECT NORTH




PLANTERS (B) (C) & (D)




FRAMING DET'S (A)

SCALE - 1½" = 1'-0"

APPROVED:

STRUCTURAL ENGINEER
HILLMAN, BIDDISON & LOEVENGUTH
624-8748 LOS ANGELES

MECHANICAL ENGINEER
THOS. H. PARRY & ASSOC.
PASADENA 792-2277

ELECTRICAL ENGINEER
WILLIAM H. KING
PASADENA 792-5789

# ALTADENA LIBRARY

FOR THE ALTADENA LIBRARY DISTRICT — ALTADENA, CALIFORNIA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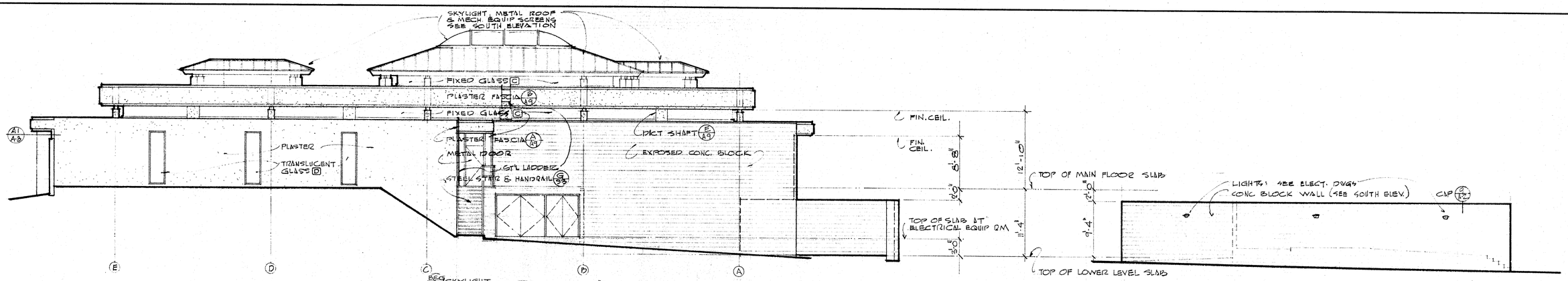
DRAWN BY WSGNN
DATE AUG 19, '65

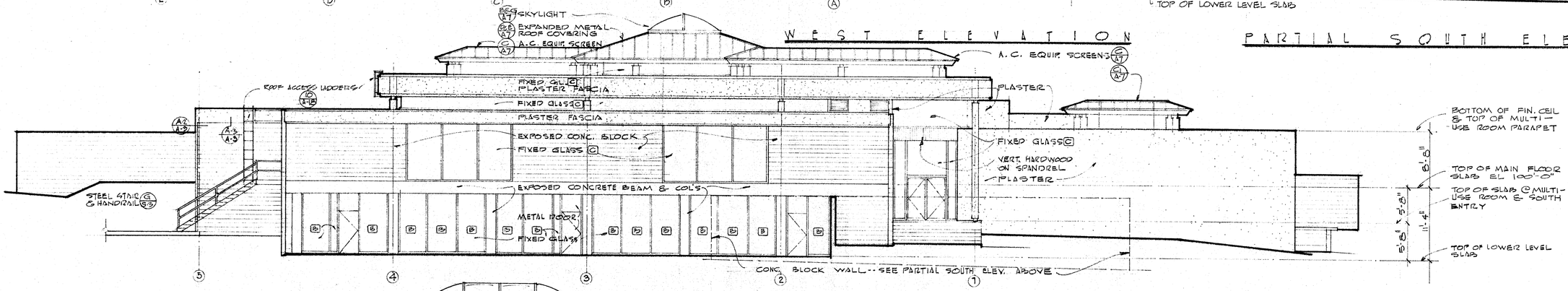
A-3 OF 18

DIETERICH-POST CLEARPRINT 1000H

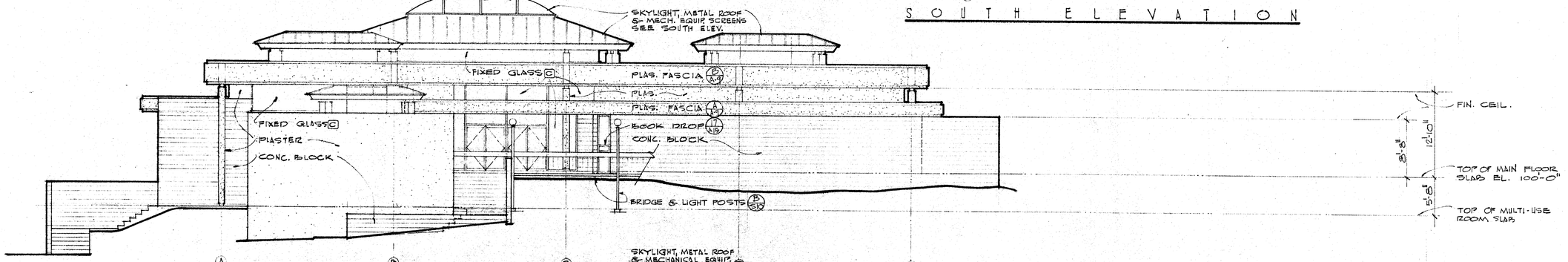



WEST ELEVATION

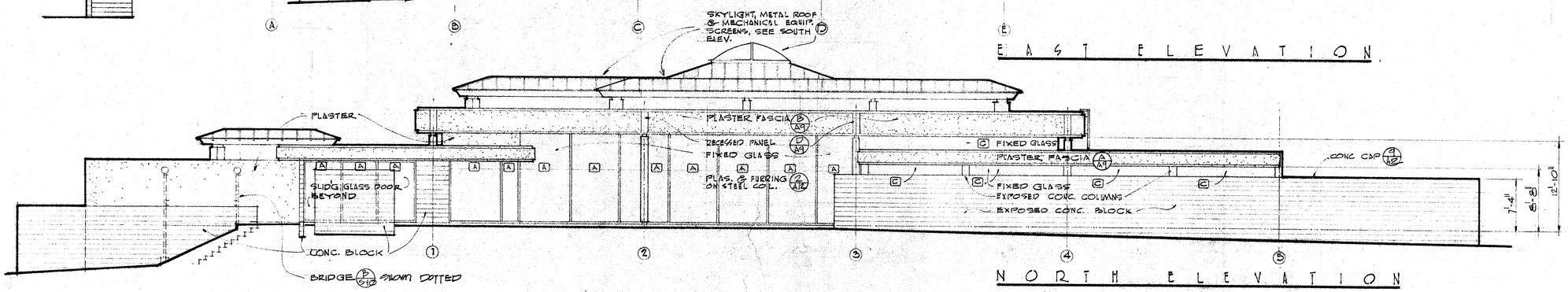
PARTIAL SOUTH ELEVATION




SOUTH ELEVATION




EAST ELEVATION




NORTH ELEVATION

## GLASS TYPE LEGEND

- A--GLARE REDUCING GLASS
- B--HEAT RETARDANT GLASS
- C--1/4" PLATE GLASS
- D--TRANSLUCENT GLASS (SEE SPECS, (SEE ALSO INTERIOR ELEVS., SHEETS A-11 THRU A-14)

APPROVED:

STRUCTURAL ENGINEER HILLMAN, BIGGISON & LOEVENGUTH 624-8748 LOS ANGELES

MECHANICAL ENGINEER THOS. H. PARRY & ASSOC. PASADENA 792-227

ELECTRICAL ENGINEER WILLIAM H. KING PASADENA 792-5789

# ALTADENA LIBRARY

FOR THE ALTADENA LIBRARY DISTRICT ALTADENA, CALIFORNIA

ARCHITECT
BOYD GEORGI AIA
681-2127 798-6734 1704 SKYVIEW DRIVE ALTADENA

DRAWN BY NOEMIE
DATE AUG 14, '65

A-8 OF 18

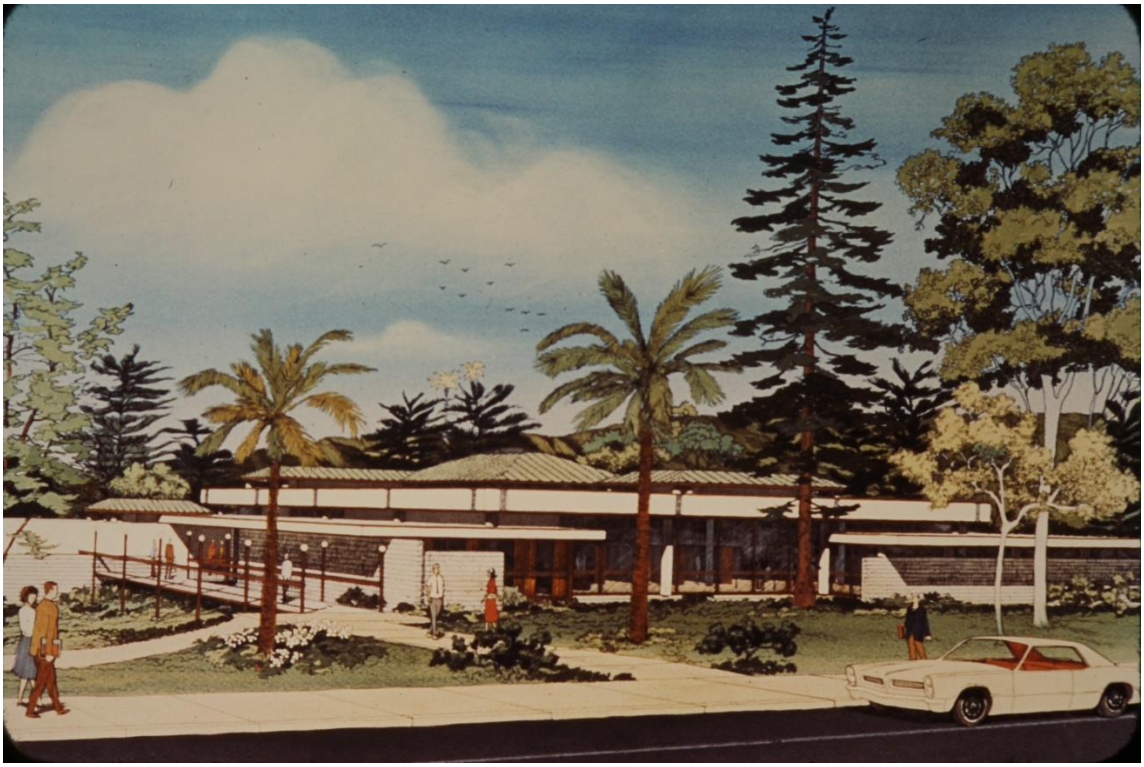
DIETZGEN-POST CLEARPRINT 1000H

Architectural Resources Group

## Exhibit 4. Historic Images




Altadena Main Library, east façade and landscape, 1969 (News Notes of California Libraries).



Altadena Library, watercolor rendering, n.d. (Altadena Library District).



Altadena Library interior reading court, 1960s (Altadena Library District).

Architectural Resources Group

## Exhibit 5. Historic Articles

# The Altadena Public Library Headquarters Building

Elizabeth Hutchings

The physical site of the new Altadena Public Library reflects to an unusual degree the unique character of this community. Altadena is a foothill town, located on rising land between the city of Pasadena and the San Gabriel Mountains. Its sloping terrain ranges from gradual to precipitous, with the library land approximately in the middle of this scale.

Altadena is an old town whose early settlers built spacious homes on spacious and lushly landscaped grounds. Where the library now stands was once the 1880's-vintage estate of Colonel G. G. Green, owner of Pasadena's Green Hotel. Colonel Green's neighbors were such people as Andrew McNally of Rand-McNally, whose 5-acre estate bordered the Green property, and John Woodbury, who planted 150 Himalayan deodar trees to line the mile-long driveway to his home.

The old mansions are mostly gone now, but the fine old trees and specimen planting still stand. John Woodbury's deodar driveway, bordering the library, is now the world-famous Christmas Tree Lane, which attracts thousands of sightseers annually when the towering trees are lighted for the holidays.

Altadena is a residential community of predominantly one-family homes, and though the library is located within an easy walk from the town's main business section, it is in a quiet area of homes.

These special qualities of geography, history and flavor helped greatly to shape the new library, completed during the summer of 1967. The problem presented to Altadena architect Boyd Georgi was to design a library for some 125,000 volumes with a pleasant, non-austere atmosphere, a building that would provide an experience of its wooded site and retain some of its historical past. His success is indicated by awards from the Pasadena chapter of A.I.A. and the Pasadena Beautiful Foundation, and most of all, by the library's enthusiastic acceptance and use in the community.

Altadena had a population of some 20,000 in the 1930's when its first library was built with WPA funds. As the town grew (its present population is 43,000, with an estimated future maximum of 50,000), the 4000-square-foot building became inadequate in every respect. The need for expansion became apparent by the late 50's, and in 1961 the Library Board purchased the nearly two-acre Green estate for $65,000.

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Mrs. Hutchings, an Altadena resident, gives us a borrower's view of the library.



With a site fully paid for, a $500,000 bond issue drive was launched by the Library Board and the Friends of the Library and passed by the voters. Later expansion of building plans was made possible by a Library Services and Construction Act grant, bringing the total amount available to $750,000. The old Green mansion was demolished and the site formally dedicated during National Library Week in 1965. Two years later the new library opened its doors for business.

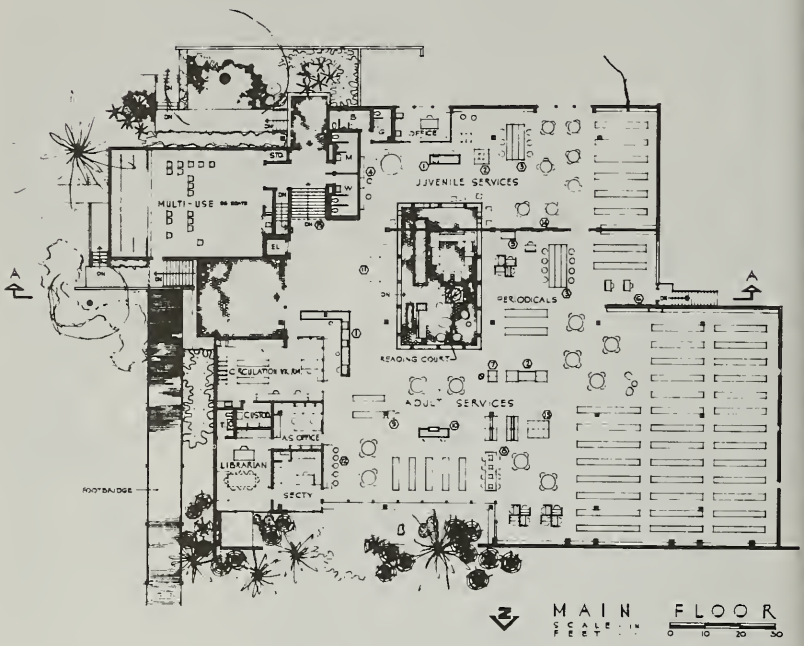
The building is on three levels, as suggested by the natural sloping contour of the land. The first level is the public area of the library containing the main reading room, circulation, all adult and children's services, staff and administrative offices. The main entrance to this level—again, suggested by the land contour—is over a 100-foot bridge lighted by plaza-type globes, providing access without stairs for wheelchair or foot traffic. Entrance from the parking lot in the rear is by stairway.

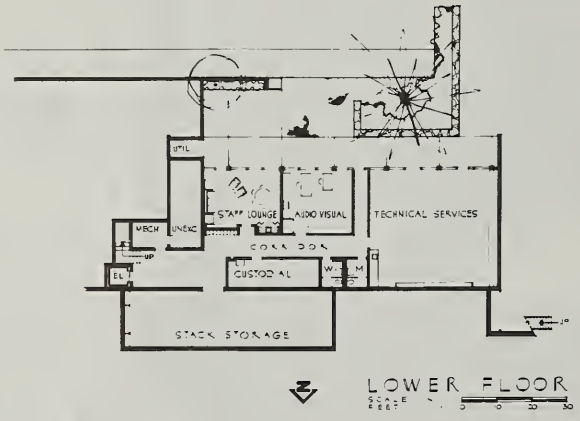
The middle level is a community room which has inside and outside entrances, the latter independent of the rest of the building. The lower level houses the technical services, staff lounge, conference room, storage area, and janitor's closets. All staff areas on this level are spacious, carpeted rooms whose glass walls overlook landscaped courts or the tree-studded parking lot. Outside entrances also face the parking area, with easy access for deliveries by truck.

The building is concrete block, sandblasted to give a greater feeling of texture and color. Every effort has been made to take advantage of the natural setting. Exteriors are primarily white to enhance the silhouettes and light and shadow patterns of the trees. Plantings of shade groundcovers, azaleas and tree ferns contribute to a cool and woodsy effect. Two informal pools and a small waterfall are sentimental reminders of the natural stream that at one time ran through the Green estate.

Further bows to the architectural past are screened concealments of such 20th-century amenities as roof heating and air-conditioning units, designed to be reminiscent of the tile roofs characteristic of the area's early mansions.

Fifteen-foot windows along a north wall and clerestory windows on three sides bring the wooded setting into the interior. A large window in the children's section views the original estate's old carriage house—now a home, but unchanged in its period architecture. In the main reading room a conservatory atmosphere—another romantic reminder of the past—is attained by a sunken, skylighted reading court (with a view of the soaring top of the tallest tree on the property). The reading court and entrance areas are paved with decorative quarry tile, and the service desks are faced with carved redwood—details designed to recall an era of handcrafted workmanship. The Burke furniture, white with gay naugahyde cushions, in the children's section is a modern version of old-fashioned ice-cream parlor furniture.


MULTI-USE
JUVENILE SERVICES
PERIODICALS
READING COURT
ADULT SERVICES
CIRCULATION
CASHIER
AS OFFICE
LIBRARIAN
SECTY
FOOTBRIDGE
MAIN FLOOR
SCALE IN FEET
0 10 20 30


STAFF LOUNGE
AUDIO VISUAL
TECHNICAL SERVICES
MECH
UNEXC
CORR DOR
CUSTODIAL
STACK STORAGE
LOWER FLOOR
SCALE IN FEET
0 10 20 30

SECTION B-B
SCALE - IN FEET
0 10 20 30


SECTION A-A
SCALE - IN FEET
0 10 20 30



Interior colors are warm and bright, carefully chosen to blend with the cool and wooded exterior views. Bigelow wood carpeting in a rich shade of gold covers the entire main floor. The reading court is informally furnished with Knoll and Herman Miller furniture, the rest of the adult area with a combination of Jens Risom, Marble and Knoll. Upholstered pieces are covered in shades of avocado, persimmon, aqua and gold. The functional equipment includes Sjöström card catalogs, periodical display cases, carrels and listening tables, and metal Ames stacks. A six-foot hardwood screen across the reading court separates the adult and children's areas. Portable bulletin boards are designed to be hung on this screen either singly or for continuous display.

The middle-level community room, furnished entirely by funds provided by the Friends of the Library, has a small stage with a lectern and loudspeaker, plus a Pullman kitchen. Stacking chairs by Herman Miller, with a seating capacity of 96, make this room extremely versatile in arrangement.

The community room, in fact, reflects in many ways the special role the library now plays in Altadena. The library has, of course, grown tremendously in services it can offer—records, films, larger book collection and increased patron use. Furthermore, membership in the Metropolitan Cooperative Library System has opened avenues beyond local service in availability of books, reference service and interlibrary delivery.

But the community room has gradually grown into the flexible kind of meeting place and cultural center that was formerly lacking in Altadena. Its uses have been constant and varied: for meetings for local organizations, for films and lectures, for Friends-sponsored activities such as book sales, book reviews, and summer art classes conducted by local artists.

For the past two years the 30-member Altadena Planning Advisory Committee has met monthly in the community room to consider a general plan for the town's future development. The committee's report has been accepted by the Los Angeles County Regional Planning Commission and has now gone back to the community for action. One of the report's proposals envisions a commercial pedestrians' mall, extending from nearby existing shopping centers westward to—in the words of the report—"a cultural center anchored by the Altadena Library."

This is a future that the Altadena Library and its many loyal supporters welcome with great enthusiasm.

## BUILDING DATA SUMMARY

*Name of Library, Type of Building:* Altadena Library District, headquarters

*Location:* 600 East Mariposa Street, Altadena, California

*Librarian:* Mrs. Gladys V. Babcock

*Architect:* Boyd Georgi, A.I.A. *Contractor:* R. C. Gallyon Construction Co.

*Landscape Architects:* Eriksson, Peters and Thoms

*Building begun:* July, 1966 *Completed:* August, 1967

*Basic Exterior Construction:* Concrete block, sandblasted; three levels

*Square Footage:* 24,000

*Total Volume Capacity:* 125,000 *Seating Capacity:* 154, public area; 96, meeting room

*Financial Data:*

| | | |
|---|---|---|
| *Total Project Cost* | | $759,589 |
| *Federal share* | $231,530 | |
| *Local matching funds* (bond issue, 1963, $500,000) | $528,059 | |
| *Breakdown of Costs:* | | |
| *Construction and built-ins* (per square foot, $21.00 est.) | $511,040 | |
| *Furniture and equipment* | $107,196 | |
| *Site* | $65,000 | |
| *Other* | $76,352 | |

*Details of Building:*

*Floors:* Main floor carpeted

*Furniture:* Carpeting, Bigelow; reading court furniture, Knoll and Herman Miller; adult area furniture, Jens Risom, Marble, and Knoll; card catalogs, periodical display cases, carrels, listening tables, Sjöström; metal stacks, Ames; community room stacking chairs, Herman Miller.

Architectural Resources Group

## Exhibit 6. Resumes

## *Resume*

KATIE E. HORAK

Principal | Architectural Historian & Preservation Planner

Katie is a Los Angeles-area native and Principal in ARG's Los Angeles office. She has more than fifteen years experience in the field of historic resource management in both the public and private sectors. Katie is a recognized leader in the industry, bringing creative and innovative solutions to complex issues related to historic site documentation, management, and adaptive re-use. Katie brings additional experience with California Environmental Quality Act (CEQA) compliance documentation, historic structure reports, determinations of eligibility, design review, and Mills Act Property Tax Abatement Program administration.

### *Relevant Project Experience*

- The Title Insurance and Trust Company Building, 433 S. Spring St, Rehabilitation and Seismic Upgrade, Los Angeles, CA
- Lucas Museum of Narrative Art EIR, Historical Resources Technical Report, Los Angeles, CA
- California State University Long Beach, Historic Preservation Consulting, Long Beach, CA
- The Factory at Robertson Lane, Historic Preservation Consulting and Technical Report under CEQA, West Hollywood, CA
- Claremont McKenna College, Historical Resources Technical Report under CEQA, Claremont, CA
- Pomona College Master Plan EIR, Historical Resources Technical Report under CEQA, Claremont, CA
- Century Plaza Hotel, Historical Resources Technical Report under CEQA, Los Angeles, CA
- 1800 Stewart Street, Historic Resource Evaluation under CEQA, Santa Monica, CA
- 710 Wilshire, Historical Resources Technical Report under CEQA, Santa Monica, CA
- 86 S. Fair Oaks, Central Park Apartments, Pasadena, CA
- Los Angeles Union Station, Historic Structures Report and ongoing historic preservation consultation, Los Angeles, CA
- First Congregational Church, Adaptive Re-Use Study, Pasadena, CA
- Arcade Lane Rehabilitation Study, Pasadena, CA
- Claremont Museum of Art at the Depot, Adaptive Re-Use Design Review, Claremont, CA
- Norms Restaurant La Cienega, Historic Structures Report and design review, Los Angeles, CA
- SurveyLA, Los Angeles Citywide Historic Resources Survey: Citywide Historic Context Statement (The Ranch House and Los Angeles Modernism), Pilot Survey, Groups 1, 2, 4, 5, 6, 7, 8, 9, and 10 Surveys



### *Education*

Master of Heritage Conservation, University of Southern California, Los Angeles

University of Oregon, Eugene Historic Preservation Field School in Canova, Italy

Bachelor of Arts, Art (Painting/ Drawing), Whitworth College, Spokane, Washington

Meets *The Secretary of the Interior's Professional Qualifications Standards* in Architectural History and History

### *Memberships*

Board of Directors, Docomomo US

Founding President, Docomomo US, Southern California Chapter

Los Angeles Conservancy

National Trust for Historic Preservation

Society of Architectural Historians, Southern California Chapter

### *Academic Involvement*

Leadership Council, USC Alumni Real Estate Network

Adjunct Assistant Professor, University of Southern California.

Current courses taught: *Introduction to Historic Site Documentation*, and *Advanced Documentation: Historic Resources Surveys*

## *Resume*

### EVANNE ST. CHARLES

**Associate | LEED AP O+M | Architectural Historian & Preservation Planner**

Evanne is an Architectural Historian and Preservation Planner in ARG's Los Angeles office with academic and professional training in historic preservation planning. Evanne has worked with ARG since 2013, first as a planning intern and later hired as a full-time staff member. Her experience includes historic structure reports, historic resource evaluations, landmark nominations, historic resources surveys, California Environmental Quality Act (CEQA) compliance documentation, Mills Act Property Tax Abatement Program administration, and federal historic preservation tax credit applications. Evanne is also actively involved with the Association for Preservation Technology International (APT) Technical Committee on Sustainable Preservation.

#### *Relevant Project Experience*

- City of Anaheim, Historic Resources Consulting, Anaheim, CA (On-going)
- City of Arcadia, Citywide Historic Resources Survey and Historic Preservation Ordinance, Arcadia, CA
- University of Southern California, Lucas Museum of Narrative Art EIR, Historical Resources Technical Report, Los Angeles, CA
- Mission Place Development, CEQA Evaluation, South Pasadena, CA
- Lassen and Mason Redevelopment, Historical Resources Assessment Report under CEQA, Los Angeles, CA
- 1828 Ocean Avenue/1920 Ocean Front Walk, Evaluation of Impacts to Historic Resources under CEQA, Santa Monica, CA
- Pomona College Master Plan EIR, Historical Resources Technical Report, Claremont, CA
- 1225 Rodeo Road, Historic Resource Evaluation, Arcadia, CA
- 9701 Wilshire Boulevard, City Landmark Assessment and Evaluation Report, Beverly Hills, CA
- Los Angeles Union Station, Historic Structures Report, Los Angeles, CA
- Wayfarers Chapel, Historic Structures Report, Rancho Palos Verdes, CA
- SurveyLA, Los Angeles Citywide Historic Resources Survey: Group 6 Survey (Arleta-Pacoima, and Mission Hills-Panorama City-North Hills Community Plan Areas); Group 7 Survey (Wilshire and Boyle Heights Community Plan Areas); Group 8 Survey (Van Nuys-North Sherman Oaks, Reseda-West Van Nuys, and other Community Plan Areas)
- Miracle Mile Historic Preservation Overlay Zone (HPOZ), Historic Resources Survey, Los Angeles, CA
- El Sereno-Berkshire Craftsman District HPOZ, Historic Resources Survey, Los Angeles, CA



#### *Education*

Master of Science, Historic Preservation, University of Oregon, Eugene

Bachelor of Arts, Art History with Architecture and Environment Emphasis; Bachelor of Arts, Geography, University of California, Santa Barbara

Meets *The Secretary of the Interior's Professional Qualifications Standards* in Architectural History and History

#### *Memberships/Conferences*

Association for Preservation Technology International (APT), Member

APT Technical Committee on Sustainable Preservation, OSCAR Focus Group, Co-Chair

Los Angeles Conservancy, Member

California Higher Education Sustainability Conference, University of California Student Keynote Speaker, 2011

California Higher Education Sustainability Conference, Speaker, LEED EBOM Track, 2010

# APPENDIX C

## SURVEY PHOTOGRAPHS



South elevation, facing northwest. New two-story atrium/entrance and deck will be located on this elevation.



South elevation, facing northeast. Doors and fenestration on first floor will be altered.



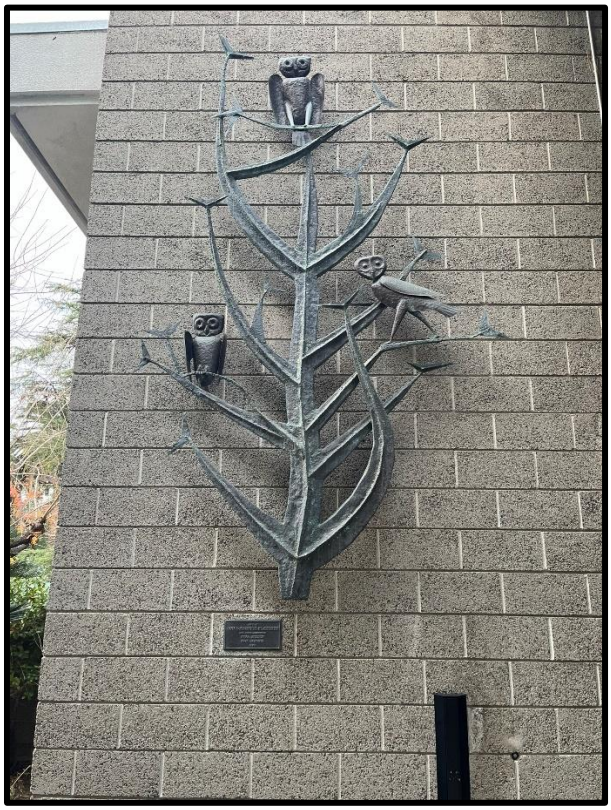
South elevation of community room, facing north. New deck will be located on this elevation, with a shade canopy and sliding doors. New fenestration will be added to east and north elevations of the community room.



South and east elevations, facing northwest. New two-story atrium/entrance and deck will be located on this elevation.



South elevation entry doors. These will be removed.



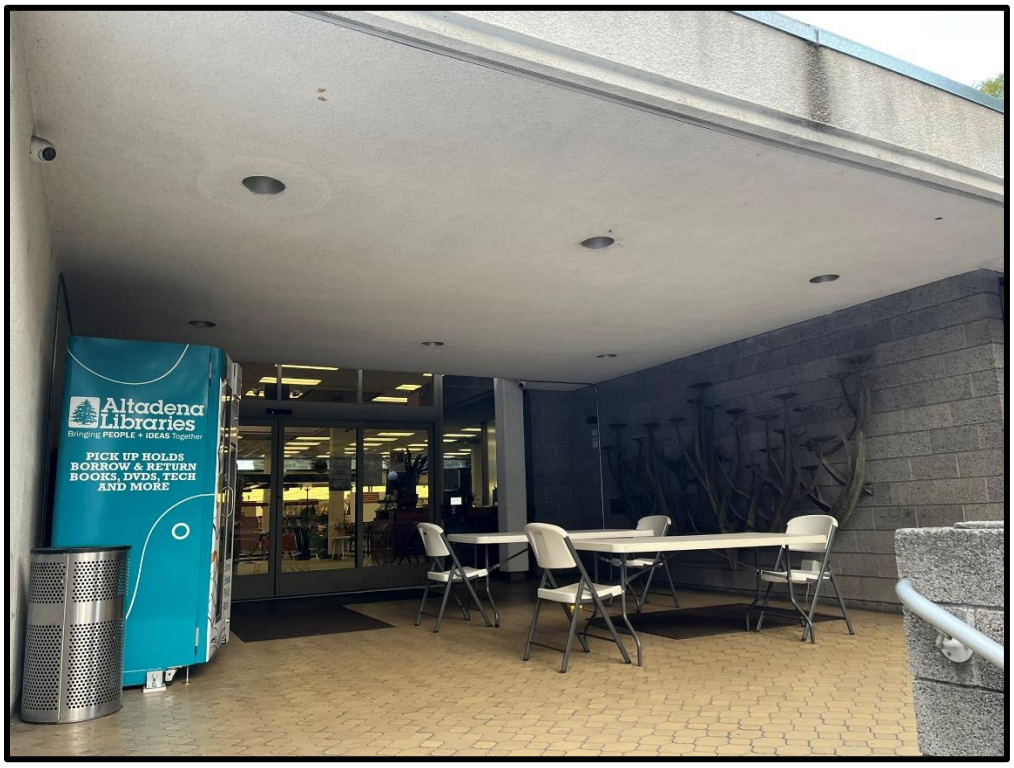
South elevation David Green sculpture. Planned to be relocated.



South elevation bridge, facing north. Bridge expected to remain, materials replaced in-kind if necessary.



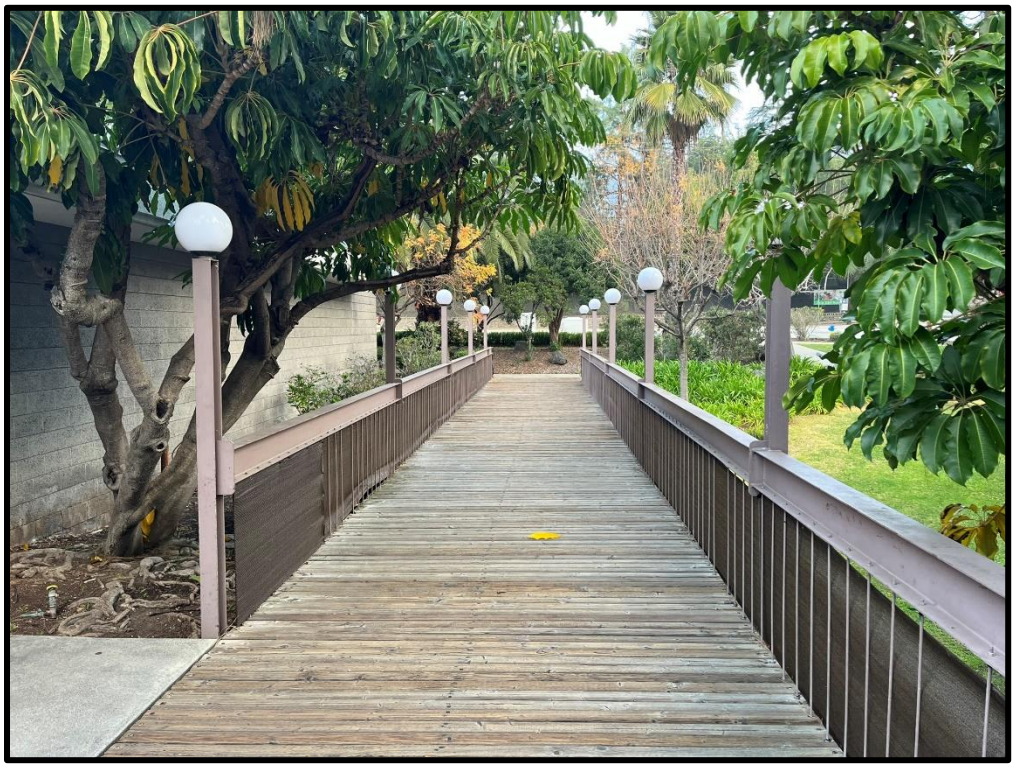
South elevation bridge and east elevation of community room, facing northwest. Bridge expected to remain, materials replaced in-kind if necessary. New fenestration is proposed on east elevation of community room.




East elevation entry, facing east. Non-historic-period doors and windows which will likely be replaced.



East elevation entry David Green sculpture. No current plan to relocate.



East elevation bridge, facing north. Bridge expected to remain, materials replaced in-kind if necessary.



East elevation bridge, facing west. Bridge expected to remain, materials replaced in-kind if necessary.



North elevation, west and central portion, facing south. New entrance door and parking lot planned for west portion of the elevation, potential sunken amphitheater planned for central portion; several trees will be removed.



North elevation, east portion, facing south. Fenestration and doors will change.



West elevation, facing northeast. No expected modifications to this elevation.



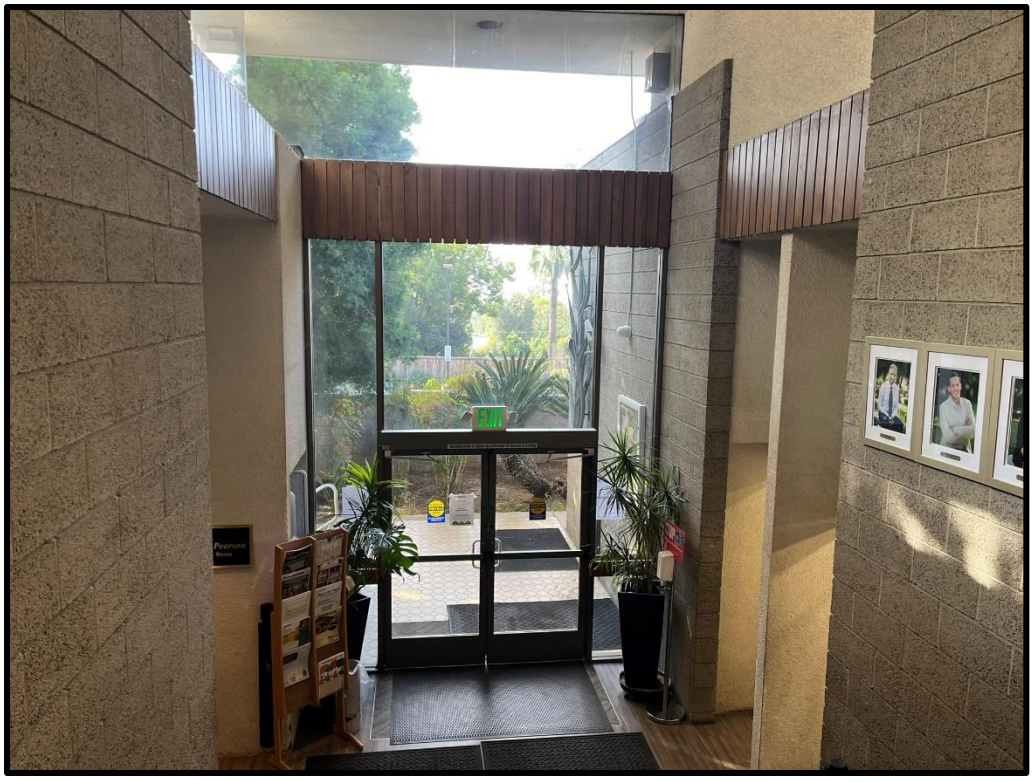
HVAC enclosure. Modifications will be made to make them more cohesive with the building.




North and east elevation pathway and landscaping, facing southwest. Concrete walkway will be modified.



East elevation community garden, facing northwest; will not experience significant changes.



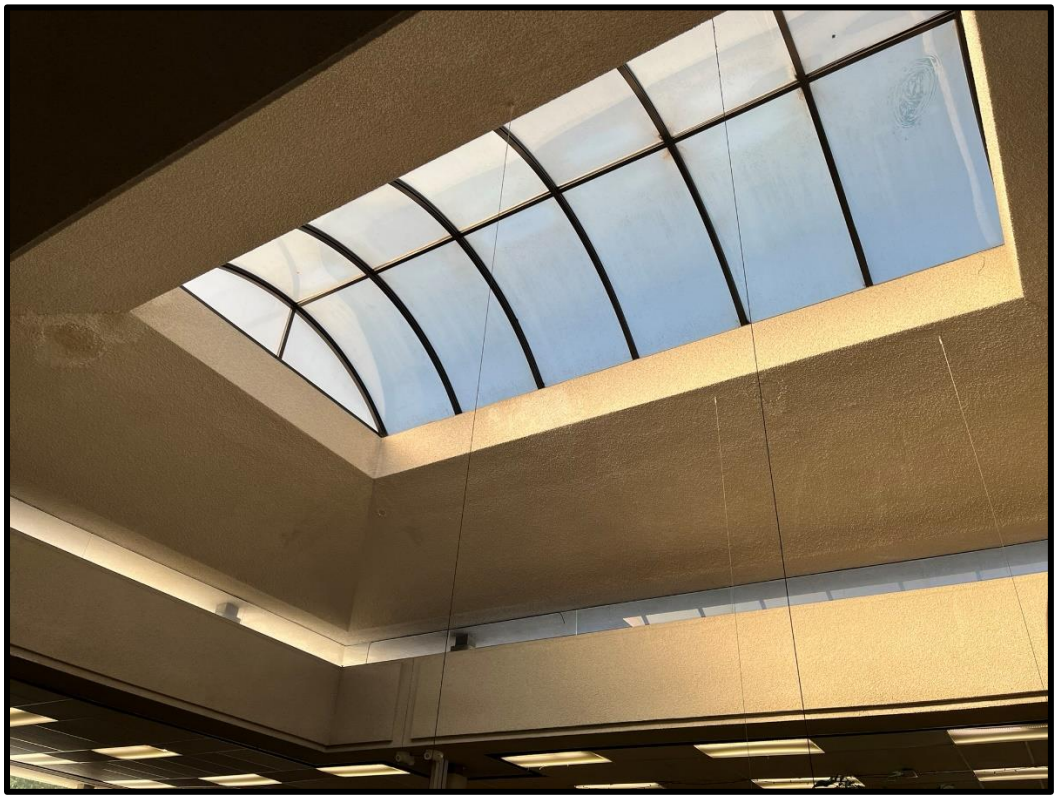

Interior view of south elevation entrance. Community room access on the left of image, bathrooms on the right of image. Space will be significantly modified.




Interior view, community room, facing west.



Sunken reading area, facing southwest. Steps on left side of image will be replaced with ADA-compliant ramp, globe lamps will remain. Portion of wood wall on left side of image will be removed.



Skylight clearstory windows over sunken reading area. Glass will be replaced.




Office on eastern portion of main floor, facing northeast. Walls, doors, and existing windows will be removed and replaced. Space will be reconfigured.



Western portion of main floor, facing northwest. New office area will be constructed, enclosing area.




Office on western portion of main floor, facing northeast. Walls, doors, and existing windows will be removed and replaced. Space will be reconfigured.




Western portion of main floor, facing southeast. New lobby area will be constructed here.




Example of circulation desk with detailed relief. The tiles will be reused.



Ca. 1967 kitchenette on ground floor breakroom which should be salvaged.

# APPENDIX D – Greenhouse Gas Screening Assessment

Ldn Consulting, Inc.
23811 Washington Ave, C110-333, Murrieta, CA 92562 phone 760-473-1253

January 8, 2025

Christie Robinson
Chambers Group, Inc.
3151 Airway Ave., Suite F208
Costa Mesa, CA 92626

**RE: Altadena Main Library Renovation Project Construction Greenhouse Gas Screening Assessment – Altadena**

The purpose of this Greenhouse Gas (GHG) screening letter is to identify potential GHG impacts, if any, which may be created from the renovation and construction of the Altadena Main Library Expansion project "Project". The Altadena Main Library is located at 600 E. Mariposa Street, Altadena, CA 91001, situated in a residential area surrounded by residences to the South and East across Santa Rosa Avenue, Altadena Senior's Center to the West, and "Camp Mariposa" (owned by the Girl Scouts of Greater Los Angeles Chapter) to the North across E. Mariposa Street. The community of Altadena is in unincorporated Los Angeles County. The existing Branch is approximately 22,000 square feet (SF). A general vicinity map is shown in Figure 1 below.

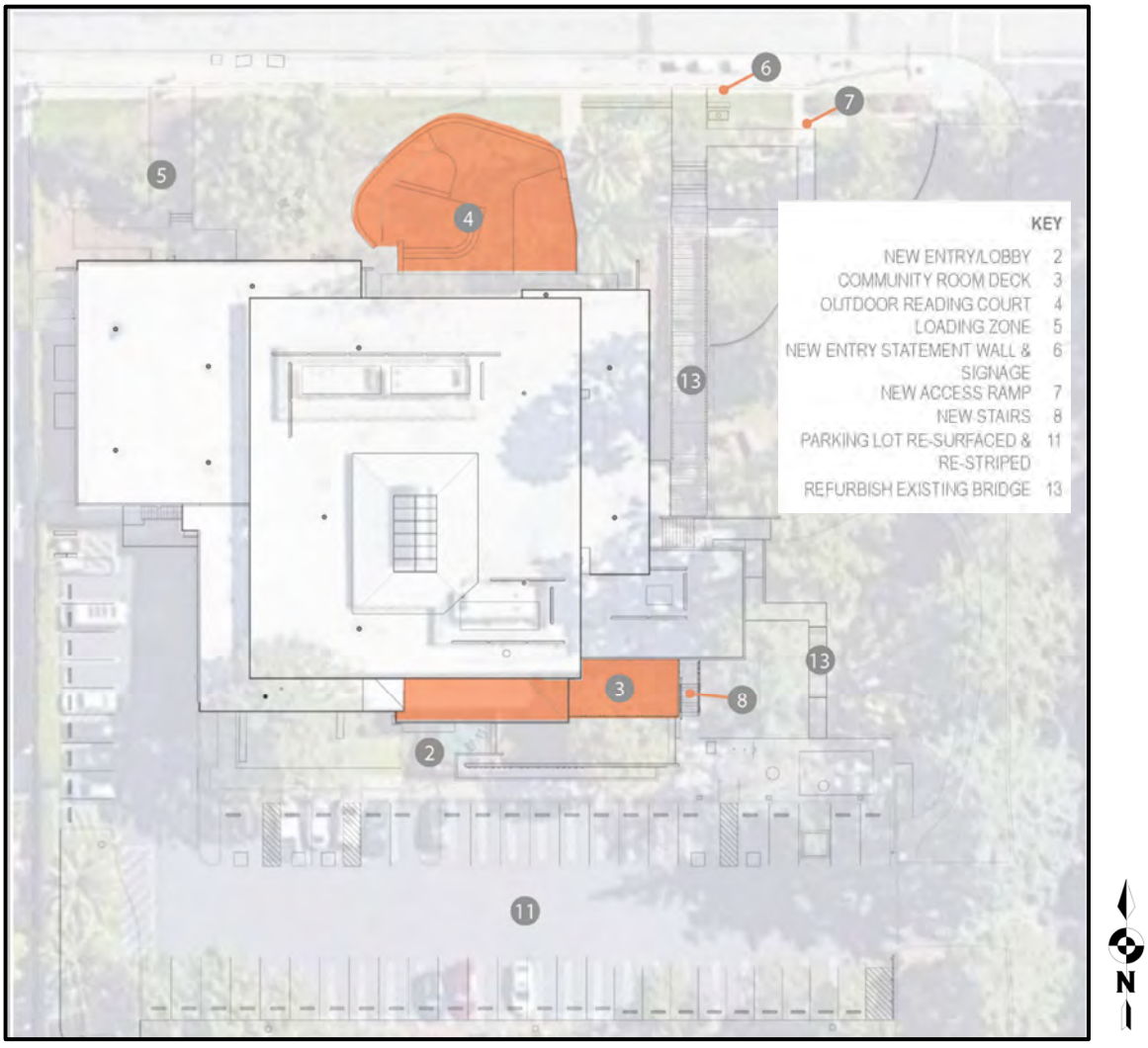
**Figure 1: Project Vicinity Map**




Source: (Google, 2024)

The planned improvements at the Main include an expansion of the building footprint approximately700 square feet, interior space reconfigurations, access improvements, seismic retrofit, and replacement of aged building infrastructure to address mechanical (elevator and heating, ventilation, and air conditioning [HVAC]), plumbing (including additional and accessible restrooms), and electrical and structural elements of the facility. Infrastructure improvements are expected to include some modernized Audio Visual (AV) spaces with newer technology and updated communications infrastructure and structured cabling. Upgrades to plantings and irrigation and adding outdoor functional spaces are also planned. The Project is expected to occur in one phase, estimated to commence in May 2025 and be completed within 14 months. A proposed site development plan is shown in Figure 2 below.

**Figure 2: Proposed Project Site Development Plan**



The community of Altadena lies within the South Coast Air Basin (SCAB). The South Coast Air Quality Management District (SCAQMD) is the government agency, which regulates sources of greenhouse gas within the district. Construction emissions would be required to conform to all federal, state and local regional air quality laws. The air quality emissions from this project were analyzed using CalEEMod 2022.1 and compared to local significance thresholds.

### *GHG Thresholds of Significance*

Areas within SCAQMD, the district has followed Tier 3 screening standards and Tier 4 Performance standards as the baseline for significance thresholds. Under this methodology, Tier 3 screening values are established at 3,000 MT/year CO2e for residential/commercial uses and 10,000 MT/year $CO_2e$ for industrial projects. Tier 4 performance standards establish a 2020 plan use threshold of 6.6 MT/Year CO2e per SPU (Service Population Unit) and 4.8 MT/Year CO2e for project level analysis (South Coast Air Quality Management District, 2013). These thresholds were developed as requirements to AB 32 and address potential cumulative impacts that a project's GHG emissions may have on Global Climate Change.

### *Project Related Construction Emissions*

GHG emissions from Construction from the proposed Project was calculated using the CalEEMod 2022.1 emissions model, which was developed by South Coast Air Quality Management District (SCAQMD). The CalEEMod input/output model is provided in **Attachments A**. CalEEMod has been updated to reflect the anticipated construction activities and dates identified in Table 1.

**Table 1: Proposed Construction Phase and Duration**

| Equipment Identification | Proposed Start | Proposed Completion | Quantity |
|---|---|---|---|
| **Demolition** | 5/1/2025 | 5/21/2025 | |
| Skid Steer Loaders | | | 1 |
| Concrete/Industrial Saws | | | 1 |
| **Grading** | 5/22/2025 | 5/23/2025 | |
| Tractors/Loaders/Backhoes | | | 1 |
| Skid Steer Loaders | | | 1 |
| **Building Construction (Interior Renovation)** | 6/15/2025 | 8/24/2025 | |
| Forklifts | | | 1 |
| **Building Construction (Building Expansion)** | 8/25/2025 | 10/31/2025 | |
| Cranes | | | 1 |
| Forklifts | | | 1 |
| Skid Steer Loaders | | | 1 |

| Equipment Identification | Proposed Start | Proposed Completion | Quantity |
|---|---|---|---|
| Concrete/Industrial Saws | | | 1 |
| **Building Construction (Exterior Improvements)** | 11/1/2025 | 3/20/2026 | |
| Skid Steer Loaders | | | 1 |
| Aerial Lifts | | | |
| **Paving** | 10/9/2025 | 10/16/2025 | |
| Cement and Mortar Mixers | | | 4 |
| Pavers | | | 1 |
| Rollers | | | 1 |
| Tractors/Loaders/Backhoes | | | 1 |
| **Architectural Coating** | 3/1/2026 | 3/6/2026 | |
| Air Compressors | | | 1 |
| This equipment list is based upon equipment inventory and estimates within CalEEMod 2022.1 | | | |

Based on the construction model outputs shown in Table 2, we find that the project will produce a total of 62.3 MT of GHGs commonly referred to as Carbon Dioxide Equivalent ($CO_2e$[1]) during the construction period. More specifically, the project would produce roughly 49 MT GHG in 2025 and 14 MT GHG in 2026. SCAQMD has a 3,000 MT per year screening threshold which establishes a point at which a projects GHG contributions would be cumulatively significant. Since the project would produce a maximum of 49 MT during construction, a less than significant construction impact would be expected.

**Table 2: Expected Annual Construction $CO_2e$ Emissions Summary**

| Year | Bio-CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e (MT) |
|---|---|---|---|---|---|---|
| 2025 | 0 | 48.1 | 48.1 | < 0.005 | < 0.005 | 48.7 |
| 2026 | 0 | 13.4 | 13.4 | < 0.005 | < 0.005 | 13.6 |
| **Total** | | | | | | **62.3** |
| Expected Construction emissions are based upon CalEEMod modeling assumptions (Table 1 above)<br>All numbers are rounded to the nearest whole number | | | | | | |

## Project Related Construction Emissions

[1] $CO_2e$ is calculated by multiplying the calculated levels of $CH_4$ and $N_2O$ by a Global Warming Potential (GWP). The Intergovernmental Panel on Climate Change (IPCC) provides source data for GWP factors for both $CH_4$ and $N_2O$ using the 100-year periods of 25 and 298, respectively (IPCC, 2007).

Christie Robinson
Chambers Group, Inc.
3151 Airway Ave., Suite F208
Costa Mesa, CA 92626



**Project Related Operational Emissions**

The Proposed Project's operations would remain consistent with current library use. The Project would not be expected to increase traffic generations. GHG emissions from the library are accounted for in existing GHG inventories and no additional emissions are expected following the renovations. It should be noted however that the anticipated renovations would improve energy efficiency which would reduce GHG emissions. Therefore, the Project GHG emissions would remain essentially the same and a less than significant GHG impact as it relates to operations would be expected.

Per this analysis, no construction GHG impacts are anticipated. If you have any questions, please do not hesitate to contact me directly at (760) 473-1253.

Sincerely,
Ldn Consulting, Inc.



Jeremy Louden, Principal

**Attachments:** CalEEMod Results

**References:**

Google. (2022). *Google Map.*

South Coast Air Quality Management District. (2013, October 15). *Minutes for the GHG CEQA Significance Threshold*. Retrieved from http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-15/ghg-meeting-15-minutes.pdf?sfvrsn=2

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# 1. Basic Project Information

## 1.1. Basic Project Information

| Data Field | Value |
|---|---|
| Project Name | Altadena Library Renovation |
| Construction Start Date | 5/1/2025 |
| Lead Agency | — |
| Land Use Scale | Project/site |
| Analysis Level for Defaults | County |
| Windspeed (m/s) | 2.50 |
| Precipitation (days) | 5.20 |
| Location | 600 E Mariposa St, Altadena, CA 91001, USA |
| County | Los Angeles-South Coast |
| City | Unincorporated |
| Air District | South Coast AQMD |
| Air Basin | South Coast |
| TAZ | 4932 |
| EDFZ | 7 |
| Electric Utility | Southern California Edison |
| Gas Utility | Southern California Gas |
| App Version | 2022.1.1.29 |

## 1.2. Land Use Types

| Land Use Subtype | Size | Unit | Lot Acreage | Building Area (sq ft) | Landscape Area (sq ft) | Special Landscape Area (sq ft) | Population | Description |
|---|---|---|---|---|---|---|---|---|
| Government (Civic Center) | 22.7 | 1000sqft | 0.52 | 22,700 | 25,000 | — | — | — |
| Parking Lot | 50.0 | Space | 0.45 | 0.00 | 25,000 | — | — | — |

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

| Sector | # | Measure Title |
|---|---|---|
| Construction | C-6 | Use Diesel Particulate Filters |

# 2. Emissions Summary

### 2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Un/Mit. | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 0.19 | 4.38 | 5.54 | 0.01 | 0.21 | 0.13 | 0.33 | 0.19 | 0.03 | 0.22 | — | 1,073 | 1,073 | 0.04 | 0.03 | 1,082 |
| Mit. | 0.19 | 4.38 | 5.54 | 0.01 | 0.03 | 0.13 | 0.16 | 0.03 | 0.03 | 0.06 | — | 1,073 | 1,073 | 0.04 | 0.03 | 1,082 |
| % Reduced | — | — | — | — | 84% | — | 52% | 85% | — | 73% | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 43.4 | 8.20 | 11.1 | 0.02 | 0.38 | 0.36 | 0.73 | 0.34 | 0.08 | 0.43 | — | 2,120 | 2,120 | 0.09 | 0.04 | 2,135 |
| Mit. | 43.4 | 8.20 | 11.1 | 0.02 | 0.06 | 0.36 | 0.41 | 0.05 | 0.08 | 0.14 | — | 2,120 | 2,120 | 0.09 | 0.04 | 2,135 |
| % Reduced | — | — | — | — | 85% | — | 43% | 85% | — | 68% | — | — | — | — | — | — |
| Average Daily (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 0.61 | 1.13 | 1.47 | < 0.005 | 0.06 | 0.06 | 0.11 | 0.05 | 0.01 | 0.07 | — | 291 | 291 | 0.01 | 0.01 | 294 |
| Mit. | 0.61 | 1.13 | 1.47 | < 0.005 | 0.01 | 0.06 | 0.07 | 0.01 | 0.01 | 0.02 | — | 291 | 291 | 0.01 | 0.01 | 294 |
| % Reduced | — | — | — | — | 84% | — | 42% | 84% | — | 67% | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Annual (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 0.11 | 0.21 | 0.27 | < 0.005 | 0.01 | 0.01 | 0.02 | 0.01 | < 0.005 | 0.01 | — | 48.1 | 48.1 | < 0.005 | < 0.005 | 48.7 |
| Mit. | 0.11 | 0.21 | 0.27 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 48.1 | 48.1 | < 0.005 | < 0.005 | 48.7 |
| % Reduced | — | — | — | — | 84% | — | 42% | 84% | — | 67% | — | — | — | — | — | — |

## 2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Year | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily - Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2025 | 0.19 | 4.38 | 5.54 | 0.01 | 0.21 | 0.13 | 0.33 | 0.19 | 0.03 | 0.22 | — | 1,073 | 1,073 | 0.04 | 0.03 | 1,082 |
| Daily - Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2025 | 0.64 | 8.20 | 11.1 | 0.02 | 0.38 | 0.36 | 0.73 | 0.34 | 0.08 | 0.43 | — | 2,120 | 2,120 | 0.09 | 0.04 | 2,135 |
| 2026 | 43.4 | 3.10 | 3.73 | 0.01 | 0.19 | 0.18 | 0.37 | 0.17 | 0.04 | 0.22 | — | 693 | 693 | 0.03 | 0.03 | 702 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2025 | 0.06 | 1.13 | 1.47 | < 0.005 | 0.06 | 0.06 | 0.11 | 0.05 | 0.01 | 0.07 | — | 291 | 291 | 0.01 | 0.01 | 294 |
| 2026 | 0.61 | 0.32 | 0.41 | < 0.005 | 0.02 | 0.02 | 0.04 | 0.02 | < 0.005 | 0.02 | — | 80.7 | 80.7 | < 0.005 | < 0.005 | 81.9 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2025 | 0.01 | 0.21 | 0.27 | < 0.005 | 0.01 | 0.01 | 0.02 | 0.01 | < 0.005 | 0.01 | — | 48.1 | 48.1 | < 0.005 | < 0.005 | 48.7 |
| 2026 | 0.11 | 0.06 | 0.07 | < 0.005 | < 0.005 | < 0.005 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 13.4 | 13.4 | < 0.005 | < 0.005 | 13.6 |

## 2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Year | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily - Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2025 | 0.19 | 4.38 | 5.54 | 0.01 | 0.03 | 0.13 | 0.16 | 0.03 | 0.03 | 0.06 | — | 1,073 | 1,073 | 0.04 | 0.03 | 1,082 |
| Daily - Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2025 | 0.64 | 8.20 | 11.1 | 0.02 | 0.06 | 0.36 | 0.41 | 0.05 | 0.08 | 0.14 | — | 2,120 | 2,120 | 0.09 | 0.04 | 2,135 |
| 2026 | 43.4 | 3.10 | 3.73 | 0.01 | 0.03 | 0.18 | 0.21 | 0.03 | 0.04 | 0.07 | — | 693 | 693 | 0.03 | 0.03 | 702 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2025 | 0.06 | 1.13 | 1.47 | < 0.005 | 0.01 | 0.06 | 0.07 | 0.01 | 0.01 | 0.02 | — | 291 | 291 | 0.01 | 0.01 | 294 |
| 2026 | 0.61 | 0.32 | 0.41 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | 0.01 | — | 80.7 | 80.7 | < 0.005 | < 0.005 | 81.9 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2025 | 0.01 | 0.21 | 0.27 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 48.1 | 48.1 | < 0.005 | < 0.005 | 48.7 |
| 2026 | 0.11 | 0.06 | 0.07 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 13.4 | 13.4 | < 0.005 | < 0.005 | 13.6 |

# 3. Construction Emissions Details

## 3.1. Demolition (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.12 | 2.92 | 3.03 | < 0.005 | 0.18 | — | 0.18 | 0.17 | — | 0.17 | — | 428 | 428 | 0.02 | < 0.005 | 429 |
| Demolition | — | — | — | — | — | 0.02 | 0.02 | — | < 0.005 | < 0.005 | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.12 | 0.12 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 17.6 | 17.6 | < 0.005 | < 0.005 | 17.6 |
| Demolition | — | — | — | — | — | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 2.91 | 2.91 | < 0.005 | < 0.005 | 2.92 |
| Demolition | — | — | — | — | — | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.02 | 0.02 | 0.35 | 0.00 | 0.00 | 0.07 | 0.07 | 0.00 | 0.02 | 0.02 | — | 69.1 | 69.1 | < 0.005 | < 0.005 | 70.2 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | < 0.005 | 0.02 | 0.01 | < 0.005 | < 0.005 | < 0.005 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 18.5 | 18.5 | < 0.005 | < 0.005 | 19.4 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 2.73 | 2.73 | < 0.005 | < 0.005 | 2.77 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.76 | 0.76 | < 0.005 | < 0.005 | 0.80 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.45 | 0.45 | < 0.005 | < 0.005 | 0.46 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.13 | 0.13 | < 0.005 | < 0.005 | 0.13 |

## 3.2. Demolition (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.12 | 2.92 | 3.03 | < 0.005 | 0.03 | — | 0.03 | 0.03 | — | 0.03 | — | 428 | 428 | 0.02 | < 0.005 | 429 |
| Demolition | — | — | — | — | — | 0.02 | 0.02 | — | < 0.005 | < 0.005 | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.12 | 0.12 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 17.6 | 17.6 | < 0.005 | < 0.005 | 17.6 |
| Demolition | — | — | — | — | — | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 2.91 | 2.91 | < 0.005 | < 0.005 | 2.92 |
| Demolition | — | — | — | — | — | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.02 | 0.02 | 0.35 | 0.00 | 0.00 | 0.07 | 0.07 | 0.00 | 0.02 | 0.02 | — | 69.1 | 69.1 | < 0.005 | < 0.005 | 70.2 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | < 0.005 | 0.02 | 0.01 | < 0.005 | < 0.005 | < 0.005 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 18.5 | 18.5 | < 0.005 | < 0.005 | 19.4 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 2.73 | 2.73 | < 0.005 | < 0.005 | 2.77 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.76 | 0.76 | < 0.005 | < 0.005 | 0.80 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.45 | 0.45 | < 0.005 | < 0.005 | 0.46 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.13 | 0.13 | < 0.005 | < 0.005 | 0.13 |

## 3.3. Grading (2025) - Unmitigated

### Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.07 | 2.27 | 3.06 | < 0.005 | 0.12 | — | 0.12 | 0.11 | — | 0.11 | — | 438 | 438 | 0.02 | < 0.005 | 439 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dust From Material Movement | — | — | — | — | — | 0.00 | 0.00 | — | 0.00 | 0.00 | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | 0.01 | 0.02 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 2.40 | 2.40 | < 0.005 | < 0.005 | 2.41 |
| Dust From Material Movement | — | — | — | — | — | 0.00 | 0.00 | — | 0.00 | 0.00 | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 0.40 | 0.40 | < 0.005 | < 0.005 | 0.40 |
| Dust From Material Movement | — | — | — | — | — | 0.00 | 0.00 | — | 0.00 | 0.00 | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.02 | 0.02 | 0.35 | 0.00 | 0.00 | 0.07 | 0.07 | 0.00 | 0.02 | 0.02 | — | 69.1 | 69.1 | < 0.005 | < 0.005 | 70.2 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.36 | 0.36 | < 0.005 | < 0.005 | 0.37 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.06 | 0.06 | < 0.005 | < 0.005 | 0.06 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.4. Grading (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.07 | 2.27 | 3.06 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 438 | 438 | 0.02 | < 0.005 | 439 |
| Dust From Material Movement | — | — | — | — | — | 0.00 | 0.00 | — | 0.00 | 0.00 | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Off-Road Equipment | < 0.005 | 0.01 | 0.02 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 2.40 | 2.40 | < 0.005 | < 0.005 | 2.41 |
| Dust From Material Movement | — | — | — | — | — | 0.00 | 0.00 | — | 0.00 | 0.00 | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 0.40 | 0.40 | < 0.005 | < 0.005 | 0.40 |
| Dust From Material Movement | — | — | — | — | — | 0.00 | 0.00 | — | 0.00 | 0.00 | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.02 | 0.02 | 0.35 | 0.00 | 0.00 | 0.07 | 0.07 | 0.00 | 0.02 | 0.02 | — | 69.1 | 69.1 | < 0.005 | < 0.005 | 70.2 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.36 | 0.36 | < 0.005 | < 0.005 | 0.37 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.06 | 0.06 | < 0.005 | < 0.005 | 0.06 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.5. Building Construction (Interior Renovation) (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.02 | 0.59 | 0.80 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 114 | 114 | < 0.005 | < 0.005 | 115 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | 0.08 | 0.11 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 15.7 | 15.7 | < 0.005 | < 0.005 | 15.7 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | 0.01 | 0.02 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 2.59 | 2.59 | < 0.005 | < 0.005 | 2.60 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.03 | 0.03 | 0.51 | 0.00 | 0.00 | 0.09 | 0.09 | 0.00 | 0.02 | 0.02 | — | 100 | 100 | < 0.005 | < 0.005 | 102 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Vendor | < 0.005 | 0.13 | 0.07 | < 0.005 | < 0.005 | 0.03 | 0.03 | < 0.005 | 0.01 | 0.01 | — | 118 | 118 | < 0.005 | 0.02 | 123 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | 0.01 | 0.06 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 13.2 | 13.2 | < 0.005 | < 0.005 | 13.4 |
| Vendor | < 0.005 | 0.02 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 16.2 | 16.2 | < 0.005 | < 0.005 | 16.9 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 2.19 | 2.19 | < 0.005 | < 0.005 | 2.22 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 2.68 | 2.68 | < 0.005 | < 0.005 | 2.80 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.6. Building Construction (Interior Renovation) (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.02 | 0.59 | 0.80 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 114 | 114 | < 0.005 | < 0.005 | 115 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Off-Road Equipment | < 0.005 | 0.08 | 0.11 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 15.7 | 15.7 | < 0.005 | < 0.005 | 15.7 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | 0.01 | 0.02 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 2.59 | 2.59 | < 0.005 | < 0.005 | 2.60 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.03 | 0.03 | 0.51 | 0.00 | 0.00 | 0.09 | 0.09 | 0.00 | 0.02 | 0.02 | — | 100 | 100 | < 0.005 | < 0.005 | 102 |
| Vendor | < 0.005 | 0.13 | 0.07 | < 0.005 | < 0.005 | 0.03 | 0.03 | < 0.005 | 0.01 | 0.01 | — | 118 | 118 | < 0.005 | 0.02 | 123 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | 0.01 | 0.06 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 13.2 | 13.2 | < 0.005 | < 0.005 | 13.4 |
| Vendor | < 0.005 | 0.02 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 16.2 | 16.2 | < 0.005 | < 0.005 | 16.9 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 2.19 | 2.19 | < 0.005 | < 0.005 | 2.22 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 2.68 | 2.68 | < 0.005 | < 0.005 | 2.80 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.7. Building Constrcution (Building Expansion) (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.16 | 4.22 | 4.96 | 0.01 | 0.20 | — | 0.20 | 0.19 | — | 0.19 | — | 854 | 854 | 0.03 | 0.01 | 857 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.16 | 4.22 | 4.96 | 0.01 | 0.20 | — | 0.20 | 0.19 | — | 0.19 | — | 854 | 854 | 0.03 | 0.01 | 857 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.02 | 0.58 | 0.68 | < 0.005 | 0.03 | — | 0.03 | 0.03 | — | 0.03 | — | 117 | 117 | < 0.005 | < 0.005 | 117 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | 0.11 | 0.12 | < 0.005 | 0.01 | — | 0.01 | < 0.005 | — | < 0.005 | — | 19.4 | 19.4 | < 0.005 | < 0.005 | 19.4 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.03 | 0.03 | 0.51 | 0.00 | 0.00 | 0.09 | 0.09 | 0.00 | 0.02 | 0.02 | — | 100 | 100 | < 0.005 | < 0.005 | 102 |
| Vendor | < 0.005 | 0.13 | 0.07 | < 0.005 | < 0.005 | 0.03 | 0.03 | < 0.005 | 0.01 | 0.01 | — | 118 | 118 | < 0.005 | 0.02 | 123 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.03 | 0.03 | 0.43 | 0.00 | 0.00 | 0.09 | 0.09 | 0.00 | 0.02 | 0.02 | — | 95.2 | 95.2 | < 0.005 | < 0.005 | 96.4 |
| Vendor | < 0.005 | 0.14 | 0.07 | < 0.005 | < 0.005 | 0.03 | 0.03 | < 0.005 | 0.01 | 0.01 | — | 118 | 118 | < 0.005 | 0.02 | 123 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | 0.01 | 0.06 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 13.2 | 13.2 | < 0.005 | < 0.005 | 13.4 |
| Vendor | < 0.005 | 0.02 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 16.2 | 16.2 | < 0.005 | < 0.005 | 16.9 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 2.19 | 2.19 | < 0.005 | < 0.005 | 2.22 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 2.68 | 2.68 | < 0.005 | < 0.005 | 2.80 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.8. Building Constrcution (Building Expansion) (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.16 | 4.22 | 4.96 | 0.01 | 0.03 | — | 0.03 | 0.03 | — | 0.03 | — | 854 | 854 | 0.03 | 0.01 | 857 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.16 | 4.22 | 4.96 | 0.01 | 0.03 | — | 0.03 | 0.03 | — | 0.03 | — | 854 | 854 | 0.03 | 0.01 | 857 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.02 | 0.58 | 0.68 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 117 | 117 | < 0.005 | < 0.005 | 117 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | 0.11 | 0.12 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 19.4 | 19.4 | < 0.005 | < 0.005 | 19.4 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.03 | 0.03 | 0.51 | 0.00 | 0.00 | 0.09 | 0.09 | 0.00 | 0.02 | 0.02 | — | 100 | 100 | < 0.005 | < 0.005 | 102 |
| Vendor | < 0.005 | 0.13 | 0.07 | < 0.005 | < 0.005 | 0.03 | 0.03 | < 0.005 | 0.01 | 0.01 | — | 118 | 118 | < 0.005 | 0.02 | 123 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.03 | 0.03 | 0.43 | 0.00 | 0.00 | 0.09 | 0.09 | 0.00 | 0.02 | 0.02 | — | 95.2 | 95.2 | < 0.005 | < 0.005 | 96.4 |
| Vendor | < 0.005 | 0.14 | 0.07 | < 0.005 | < 0.005 | 0.03 | 0.03 | < 0.005 | 0.01 | 0.01 | — | 118 | 118 | < 0.005 | 0.02 | 123 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | 0.01 | 0.06 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 13.2 | 13.2 | < 0.005 | < 0.005 | 13.4 |
| Vendor | < 0.005 | 0.02 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 16.2 | 16.2 | < 0.005 | < 0.005 | 16.9 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Worker | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 2.19 | 2.19 | < 0.005 | < 0.005 | 2.22 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 2.68 | 2.68 | < 0.005 | < 0.005 | 2.80 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.9. Building Construction (Exterior Improvements) (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.07 | 1.83 | 2.06 | < 0.005 | 0.12 | — | 0.12 | 0.11 | — | 0.11 | — | 294 | 294 | 0.01 | < 0.005 | 295 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.22 | 0.25 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 35.1 | 35.1 | < 0.005 | < 0.005 | 35.3 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | 0.04 | 0.04 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 5.82 | 5.82 | < 0.005 | < 0.005 | 5.84 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.03 | 0.03 | 0.43 | 0.00 | 0.00 | 0.09 | 0.09 | 0.00 | 0.02 | 0.02 | — | 95.2 | 95.2 | < 0.005 | < 0.005 | 96.4 |
| Vendor | < 0.005 | 0.14 | 0.07 | < 0.005 | < 0.005 | 0.03 | 0.03 | < 0.005 | 0.01 | 0.01 | — | 118 | 118 | < 0.005 | 0.02 | 123 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | 0.05 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 11.5 | 11.5 | < 0.005 | < 0.005 | 11.7 |
| Vendor | < 0.005 | 0.02 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 14.1 | 14.1 | < 0.005 | < 0.005 | 14.7 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 1.91 | 1.91 | < 0.005 | < 0.005 | 1.94 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 2.33 | 2.33 | < 0.005 | < 0.005 | 2.44 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.10. Building Construction (Exterior Improvements) (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.07 | 1.83 | 2.06 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 294 | 294 | 0.01 | < 0.005 | 295 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Off-Road Equipment | 0.01 | 0.22 | 0.25 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 35.1 | 35.1 | < 0.005 | < 0.005 | 35.3 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | 0.04 | 0.04 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 5.82 | 5.82 | < 0.005 | < 0.005 | 5.84 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.03 | 0.03 | 0.43 | 0.00 | 0.00 | 0.09 | 0.09 | 0.00 | 0.02 | 0.02 | — | 95.2 | 95.2 | < 0.005 | < 0.005 | 96.4 |
| Vendor | < 0.005 | 0.14 | 0.07 | < 0.005 | < 0.005 | 0.03 | 0.03 | < 0.005 | 0.01 | 0.01 | — | 118 | 118 | < 0.005 | 0.02 | 123 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | 0.05 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 11.5 | 11.5 | < 0.005 | < 0.005 | 11.7 |
| Vendor | < 0.005 | 0.02 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 14.1 | 14.1 | < 0.005 | < 0.005 | 14.7 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 1.91 | 1.91 | < 0.005 | < 0.005 | 1.94 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 2.33 | 2.33 | < 0.005 | < 0.005 | 2.44 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.11. Building Construction (Exterior Improvements) (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.07 | 1.83 | 2.06 | < 0.005 | 0.12 | — | 0.12 | 0.11 | — | 0.11 | — | 294 | 294 | 0.01 | < 0.005 | 295 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.28 | 0.32 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 45.5 | 45.5 | < 0.005 | < 0.005 | 45.7 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | 0.05 | 0.06 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 7.54 | 7.54 | < 0.005 | < 0.005 | 7.56 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.03 | 0.03 | 0.40 | 0.00 | 0.00 | 0.09 | 0.09 | 0.00 | 0.02 | 0.02 | — | 93.3 | 93.3 | < 0.005 | < 0.005 | 94.4 |
| Vendor | < 0.005 | 0.13 | 0.06 | < 0.005 | < 0.005 | 0.03 | 0.03 | < 0.005 | 0.01 | 0.01 | — | 116 | 116 | < 0.005 | 0.02 | 121 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | 0.01 | 0.06 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 14.6 | 14.6 | < 0.005 | < 0.005 | 14.8 |
| Vendor | < 0.005 | 0.02 | 0.01 | < 0.005 | < 0.005 | < 0.005 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 17.9 | 17.9 | < 0.005 | < 0.005 | 18.7 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 2.42 | 2.42 | < 0.005 | < 0.005 | 2.46 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 2.97 | 2.97 | < 0.005 | < 0.005 | 3.10 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.12. Building Construction (Exterior Improvements) (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.07 | 1.83 | 2.06 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 294 | 294 | 0.01 | < 0.005 | 295 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.28 | 0.32 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 45.5 | 45.5 | < 0.005 | < 0.005 | 45.7 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Off-Road Equipment | < 0.005 | 0.05 | 0.06 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 7.54 | 7.54 | < 0.005 | < 0.005 | 7.56 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.03 | 0.03 | 0.40 | 0.00 | 0.00 | 0.09 | 0.09 | 0.00 | 0.02 | 0.02 | — | 93.3 | 93.3 | < 0.005 | < 0.005 | 94.4 |
| Vendor | < 0.005 | 0.13 | 0.06 | < 0.005 | < 0.005 | 0.03 | 0.03 | < 0.005 | 0.01 | 0.01 | — | 116 | 116 | < 0.005 | 0.02 | 121 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | 0.01 | 0.06 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 14.6 | 14.6 | < 0.005 | < 0.005 | 14.8 |
| Vendor | < 0.005 | 0.02 | 0.01 | < 0.005 | < 0.005 | < 0.005 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 17.9 | 17.9 | < 0.005 | < 0.005 | 18.7 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 2.42 | 2.42 | < 0.005 | < 0.005 | 2.46 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 2.97 | 2.97 | < 0.005 | < 0.005 | 3.10 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.13. Paving (2025) - Unmitigated

### Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.14 | 3.73 | 4.58 | 0.01 | 0.17 | — | 0.17 | 0.16 | — | 0.16 | — | 823 | 823 | 0.03 | 0.01 | 826 |
| Paving | 0.24 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | 0.05 | 0.06 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 11.3 | 11.3 | < 0.005 | < 0.005 | 11.3 |
| Paving | < 0.005 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 1.87 | 1.87 | < 0.005 | < 0.005 | 1.87 |
| Paving | < 0.005 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.07 | 0.08 | 1.03 | 0.00 | 0.00 | 0.23 | 0.23 | 0.00 | 0.05 | 0.05 | — | 229 | 229 | 0.01 | 0.01 | 232 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 3.19 | 3.19 | < 0.005 | < 0.005 | 3.23 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.53 | 0.53 | < 0.005 | < 0.005 | 0.53 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.14. Paving (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.14 | 3.73 | 4.58 | 0.01 | 0.03 | — | 0.03 | 0.02 | — | 0.02 | — | 823 | 823 | 0.03 | 0.01 | 826 |
| Paving | 0.24 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | 0.05 | 0.06 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 11.3 | 11.3 | < 0.005 | < 0.005 | 11.3 |
| Paving | < 0.005 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 1.87 | 1.87 | < 0.005 | < 0.005 | 1.87 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Paving | < 0.005 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.07 | 0.08 | 1.03 | 0.00 | 0.00 | 0.23 | 0.23 | 0.00 | 0.05 | 0.05 | — | 229 | 229 | 0.01 | 0.01 | 232 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 3.19 | 3.19 | < 0.005 | < 0.005 | 3.23 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.53 | 0.53 | < 0.005 | < 0.005 | 0.53 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.15. Architectural Coating (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.05 | 1.09 | 0.96 | < 0.005 | 0.07 | — | 0.07 | 0.06 | — | 0.06 | — | 134 | 134 | 0.01 | < 0.005 | 134 |
| Architectural Coatings | 43.2 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 1.83 | 1.83 | < 0.005 | < 0.005 | 1.84 |
| Architectural Coatings | 0.59 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 0.30 | 0.30 | < 0.005 | < 0.005 | 0.30 |
| Architectural Coatings | 0.11 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.02 | 0.02 | 0.24 | 0.00 | 0.00 | 0.06 | 0.06 | 0.00 | 0.01 | 0.01 | — | 56.0 | 56.0 | < 0.005 | < 0.005 | 56.7 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.78 | 0.78 | < 0.005 | < 0.005 | 0.79 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.13 | 0.13 | < 0.005 | < 0.005 | 0.13 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.16. Architectural Coating (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.05 | 1.09 | 0.96 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 134 | 134 | 0.01 | < 0.005 | 134 |
| Architectural Coatings | 43.2 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Off-Road Equipment | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 1.83 | 1.83 | < 0.005 | < 0.005 | 1.84 |
| Architectural Coatings | 0.59 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 0.30 | 0.30 | < 0.005 | < 0.005 | 0.30 |
| Architectural Coatings | 0.11 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.02 | 0.02 | 0.24 | 0.00 | 0.00 | 0.06 | 0.06 | 0.00 | 0.01 | 0.01 | — | 56.0 | 56.0 | < 0.005 | < 0.005 | 56.7 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.78 | 0.78 | < 0.005 | < 0.005 | 0.79 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.13 | 0.13 | < 0.005 | < 0.005 | 0.13 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

# 4. Operations Emissions Details

## 4.10. Soil Carbon Accumulation By Vegetation Type

### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Vegetation | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

### 4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Species | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Avoided | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

### 4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Vegetation | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

### 4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

## 4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Species | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

# 5. Activity Data

## 5.1. Construction Schedule

| Phase Name | Phase Type | Start Date | End Date | Days Per Week | Work Days per Phase | Phase Description |
|---|---|---|---|---|---|---|
| Demolition | Demolition | 5/1/2025 | 5/21/2025 | 5.00 | 15.0 | — |
| Grading | Grading | 5/22/2025 | 5/23/2025 | 5.00 | 2.00 | — |
| Building Construction (Interior Renovation) | Building Construction | 6/15/2025 | 8/24/2025 | 5.00 | 50.0 | — |
| Building Constrcution (Building Expansion) | Building Construction | 8/25/2025 | 10/31/2025 | 5.00 | 50.0 | — |
| Building Construction (Exterior Improvements) | Building Construction | 11/1/2025 | 3/20/2026 | 5.00 | 100 | — |
| Paving | Paving | 10/9/2025 | 10/16/2025 | 5.00 | 5.00 | — |
| Architectural Coating | Architectural Coating | 3/1/2026 | 3/6/2026 | 5.00 | 5.00 | — |

## 5.2. Off-Road Equipment

### 5.2.1. Unmitigated

| Phase Name | Equipment Type | Fuel Type | Engine Tier | Number per Day | Hours Per Day | Horsepower | Load Factor |
|---|---|---|---|---|---|---|---|
| Demolition | Skid Steer Loaders | Diesel | Tier 3 | 1.00 | 6.00 | 71.0 | 0.37 |
| Demolition | Concrete/Industrial Saws | Diesel | Tier 3 | 1.00 | 8.00 | 33.0 | 0.73 |
| Grading | Tractors/Loaders/Backhoes | Diesel | Tier 3 | 1.00 | 7.00 | 84.0 | 0.37 |
| Grading | Skid Steer Loaders | Diesel | Tier 3 | 1.00 | 6.00 | 71.0 | 0.37 |
| Building Construction (Interior Renovation) | Forklifts | Diesel | Tier 3 | 1.00 | 6.00 | 82.0 | 0.20 |
| Building Constrcution (Building Expansion) | Cranes | Diesel | Tier 3 | 1.00 | 4.00 | 367 | 0.29 |
| Building Constrcution (Building Expansion) | Forklifts | Diesel | Tier 3 | 1.00 | 6.00 | 82.0 | 0.20 |
| Building Constrcution (Building Expansion) | Skid Steer Loaders | Diesel | Tier 3 | 1.00 | 6.00 | 71.0 | 0.37 |
| Building Constrcution (Building Expansion) | Concrete/Industrial Saws | Diesel | Tier 3 | 1.00 | 2.00 | 33.0 | 0.73 |
| Building Construction (Exterior Improvements) | Skid Steer Loaders | Diesel | Tier 3 | 1.00 | 6.00 | 71.0 | 0.37 |
| Building Construction (Exterior Improvements) | Aerial Lifts | Diesel | Tier 3 | 1.00 | 6.00 | 46.0 | 0.31 |
| Paving | Cement and Mortar Mixers | Diesel | Tier 3 | 4.00 | 6.00 | 10.0 | 0.56 |
| Paving | Pavers | Diesel | Tier 3 | 1.00 | 7.00 | 81.0 | 0.42 |
| Paving | Rollers | Diesel | Tier 3 | 1.00 | 7.00 | 36.0 | 0.38 |
| Paving | Tractors/Loaders/Backhoes | Diesel | Tier 3 | 1.00 | 7.00 | 84.0 | 0.37 |
| Architectural Coating | Air Compressors | Diesel | Tier 3 | 1.00 | 6.00 | 37.0 | 0.48 |

### 5.2.2. Mitigated

| Phase Name | Equipment Type | Fuel Type | Engine Tier | Number per Day | Hours Per Day | Horsepower | Load Factor |
|---|---|---|---|---|---|---|---|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Demolition | Skid Steer Loaders | Diesel | Tier 3 | 1.00 | 6.00 | 71.0 | 0.37 |
| Demolition | Concrete/Industrial Saws | Diesel | Tier 3 | 1.00 | 8.00 | 33.0 | 0.73 |
| Grading | Tractors/Loaders/Backhoes | Diesel | Tier 3 | 1.00 | 7.00 | 84.0 | 0.37 |
| Grading | Skid Steer Loaders | Diesel | Tier 3 | 1.00 | 6.00 | 71.0 | 0.37 |
| Building Construction (Interior Renovation) | Forklifts | Diesel | Tier 3 | 1.00 | 6.00 | 82.0 | 0.20 |
| Building Constrcution (Building Expansion) | Cranes | Diesel | Tier 3 | 1.00 | 4.00 | 367 | 0.29 |
| Building Constrcution (Building Expansion) | Forklifts | Diesel | Tier 3 | 1.00 | 6.00 | 82.0 | 0.20 |
| Building Constrcution (Building Expansion) | Skid Steer Loaders | Diesel | Tier 3 | 1.00 | 6.00 | 71.0 | 0.37 |
| Building Constrcution (Building Expansion) | Concrete/Industrial Saws | Diesel | Tier 3 | 1.00 | 2.00 | 33.0 | 0.73 |
| Building Construction (Exterior Improvements) | Skid Steer Loaders | Diesel | Tier 3 | 1.00 | 6.00 | 71.0 | 0.37 |
| Building Construction (Exterior Improvements) | Aerial Lifts | Diesel | Tier 3 | 1.00 | 6.00 | 46.0 | 0.31 |
| Paving | Cement and Mortar Mixers | Diesel | Tier 3 | 4.00 | 6.00 | 10.0 | 0.56 |
| Paving | Pavers | Diesel | Tier 3 | 1.00 | 7.00 | 81.0 | 0.42 |
| Paving | Rollers | Diesel | Tier 3 | 1.00 | 7.00 | 36.0 | 0.38 |
| Paving | Tractors/Loaders/Backhoes | Diesel | Tier 3 | 1.00 | 7.00 | 84.0 | 0.37 |
| Architectural Coating | Air Compressors | Diesel | Tier 3 | 1.00 | 6.00 | 37.0 | 0.48 |

## 5.3. Construction Vehicles

### 5.3.1. Unmitigated

| Phase Name | Trip Type | One-Way Trips per Day | Miles per Trip | Vehicle Mix |
|---|---|---|---|---|
| Demolition | — | — | — | — |
| Demolition | Worker | 5.00 | 18.5 | LDA,LDT1,LDT2 |
| Demolition | Vendor | — | 10.2 | HHDT,MHDT |
| Demolition | Hauling | 0.27 | 20.0 | HHDT |
| Demolition | Onsite truck | — | — | HHDT |
| Grading | — | — | — | — |
| Grading | Worker | 5.00 | 18.5 | LDA,LDT1,LDT2 |
| Grading | Vendor | — | 10.2 | HHDT,MHDT |
| Grading | Hauling | 0.00 | 20.0 | HHDT |
| Grading | Onsite truck | — | — | HHDT |
| Building Construction (Interior Renovation) | — | — | — | — |
| Building Construction (Interior Renovation) | Worker | 7.26 | 18.5 | LDA,LDT1,LDT2 |
| Building Construction (Interior Renovation) | Vendor | 3.72 | 10.2 | HHDT,MHDT |
| Building Construction (Interior Renovation) | Hauling | 0.00 | 20.0 | HHDT |
| Building Construction (Interior Renovation) | Onsite truck | — | — | HHDT |
| Paving | — | — | — | — |
| Paving | Worker | 17.5 | 18.5 | LDA,LDT1,LDT2 |
| Paving | Vendor | — | 10.2 | HHDT,MHDT |
| Paving | Hauling | 0.00 | 20.0 | HHDT |
| Paving | Onsite truck | — | — | HHDT |
| Architectural Coating | — | — | — | — |
| Architectural Coating | Worker | 4.36 | 18.5 | LDA,LDT1,LDT2 |
| Architectural Coating | Vendor | — | 10.2 | HHDT,MHDT |
| Architectural Coating | Hauling | 0.00 | 20.0 | HHDT |

| | | | | |
|---|---|---|---|---|
| Architectural Coating | Onsite truck | — | — | HHDT |
| Building Constrcution (Building Expansion) | — | — | — | — |
| Building Constrcution (Building Expansion) | Worker | 7.26 | 18.5 | LDA,LDT1,LDT2 |
| Building Constrcution (Building Expansion) | Vendor | 3.72 | 10.2 | HHDT,MHDT |
| Building Constrcution (Building Expansion) | Hauling | 0.00 | 20.0 | HHDT |
| Building Constrcution (Building Expansion) | Onsite truck | — | — | HHDT |
| Building Construction (Exterior Improvements) | — | — | — | — |
| Building Construction (Exterior Improvements) | Worker | 7.26 | 18.5 | LDA,LDT1,LDT2 |
| Building Construction (Exterior Improvements) | Vendor | 3.72 | 10.2 | HHDT,MHDT |
| Building Construction (Exterior Improvements) | Hauling | 0.00 | 20.0 | HHDT |
| Building Construction (Exterior Improvements) | Onsite truck | — | — | HHDT |

### 5.3.2. Mitigated

| Phase Name | Trip Type | One-Way Trips per Day | Miles per Trip | Vehicle Mix |
|---|---|---|---|---|
| Demolition | — | — | — | — |
| Demolition | Worker | 5.00 | 18.5 | LDA,LDT1,LDT2 |
| Demolition | Vendor | — | 10.2 | HHDT,MHDT |
| Demolition | Hauling | 0.27 | 20.0 | HHDT |
| Demolition | Onsite truck | — | — | HHDT |
| Grading | — | — | — | — |
| Grading | Worker | 5.00 | 18.5 | LDA,LDT1,LDT2 |
| Grading | Vendor | — | 10.2 | HHDT,MHDT |

| | | | | |
|---|---|---|---|---|
| Grading | Hauling | 0.00 | 20.0 | HHDT |
| Grading | Onsite truck | — | — | HHDT |
| Building Construction (Interior Renovation) | — | — | — | — |
| Building Construction (Interior Renovation) | Worker | 7.26 | 18.5 | LDA,LDT1,LDT2 |
| Building Construction (Interior Renovation) | Vendor | 3.72 | 10.2 | HHDT,MHDT |
| Building Construction (Interior Renovation) | Hauling | 0.00 | 20.0 | HHDT |
| Building Construction (Interior Renovation) | Onsite truck | — | — | HHDT |
| Paving | — | — | — | — |
| Paving | Worker | 17.5 | 18.5 | LDA,LDT1,LDT2 |
| Paving | Vendor | — | 10.2 | HHDT,MHDT |
| Paving | Hauling | 0.00 | 20.0 | HHDT |
| Paving | Onsite truck | — | — | HHDT |
| Architectural Coating | — | — | — | — |
| Architectural Coating | Worker | 4.36 | 18.5 | LDA,LDT1,LDT2 |
| Architectural Coating | Vendor | — | 10.2 | HHDT,MHDT |
| Architectural Coating | Hauling | 0.00 | 20.0 | HHDT |
| Architectural Coating | Onsite truck | — | — | HHDT |
| Building Constrcution (Building Expansion) | — | — | — | — |
| Building Constrcution (Building Expansion) | Worker | 7.26 | 18.5 | LDA,LDT1,LDT2 |
| Building Constrcution (Building Expansion) | Vendor | 3.72 | 10.2 | HHDT,MHDT |
| Building Constrcution (Building Expansion) | Hauling | 0.00 | 20.0 | HHDT |
| Building Constrcution (Building Expansion) | Onsite truck | — | — | HHDT |

| | | | | |
|---|---|---|---|---|
| Building Construction (Exterior Improvements) | — | — | — | — |
| Building Construction (Exterior Improvements) | Worker | 7.26 | 18.5 | LDA,LDT1,LDT2 |
| Building Construction (Exterior Improvements) | Vendor | 3.72 | 10.2 | HHDT,MHDT |
| Building Construction (Exterior Improvements) | Hauling | 0.00 | 20.0 | HHDT |
| Building Construction (Exterior Improvements) | Onsite truck | — | — | HHDT |

## 5.4. Vehicles

### 5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

## 5.5. Architectural Coatings

| Phase Name | Residential Interior Area Coated (sq ft) | Residential Exterior Area Coated (sq ft) | Non-Residential Interior Area Coated (sq ft) | Non-Residential Exterior Area Coated (sq ft) | Parking Area Coated (sq ft) |
|---|---|---|---|---|---|
| Architectural Coating | 0.00 | 0.00 | 34,050 | 11,350 | 1,176 |

## 5.6. Dust Mitigation

### 5.6.1. Construction Earthmoving Activities

| Phase Name | Material Imported (Ton of Debris) | Material Exported (Ton of Debris) | Acres Graded (acres) | Material Demolished (Ton of Debris) | Acres Paved (acres) |
|---|---|---|---|---|---|
| Demolition | 0.00 | 0.00 | 0.00 | 15.0 | — |
| Grading | 0.00 | 0.00 | 0.00 | 0.00 | — |
| Paving | 0.00 | 0.00 | 0.00 | 0.00 | 0.45 |

### 5.6.2. Construction Earthmoving Control Strategies

| Control Strategies Applied | Frequency (per day) | PM10 Reduction | PM2.5 Reduction |
|---|---|---|---|
| Water Exposed Area | 2 | 61% | 61% |

## 5.7. Construction Paving

| Land Use | Area Paved (acres) | % Asphalt |
|---|---|---|
| Government (Civic Center) | 0.00 | 0% |
| Parking Lot | 0.45 | 100% |

## 5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

| Year | kWh per Year | CO2 | CH4 | N2O |
|---|---|---|---|---|
| 2025 | 0.00 | 349 | 0.03 | < 0.005 |
| 2026 | 0.00 | 346 | 0.03 | < 0.005 |

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

| Vegetation Land Use Type | Vegetation Soil Type | Initial Acres | Final Acres |
|---|---|---|---|

#### 5.18.1.2. Mitigated

| Vegetation Land Use Type | Vegetation Soil Type | Initial Acres | Final Acres |
|---|---|---|---|

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

| Biomass Cover Type | Initial Acres | Final Acres |
|---|---|---|

### 5.18.1.2. Mitigated

| Biomass Cover Type | Initial Acres | Final Acres |
|---|---|---|

### 5.18.2. Sequestration

### 5.18.2.1. Unmitigated

| Tree Type | Number | Electricity Saved (kWh/year) | Natural Gas Saved (btu/year) |
|---|---|---|---|

### 5.18.2.2. Mitigated

| Tree Type | Number | Electricity Saved (kWh/year) | Natural Gas Saved (btu/year) |
|---|---|---|---|

# 6. Climate Risk Detailed Report

## 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

| Climate Hazard | Result for Project Location | Unit |
|---|---|---|
| Temperature and Extreme Heat | 25.8 | annual days of extreme heat |
| Extreme Precipitation | 10.0 | annual days with precipitation above 20 mm |
| Sea Level Rise | — | meters of inundation depth |
| Wildfire | 28.2 | annual hectares burned |

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

| Climate Hazard | Exposure Score | Sensitivity Score | Adaptive Capacity Score | Vulnerability Score |
|---|---|---|---|---|
| Temperature and Extreme Heat | 3 | 0 | 0 | N/A |
| Extreme Precipitation | N/A | N/A | N/A | N/A |
| Sea Level Rise | 1 | 0 | 0 | N/A |
| Wildfire | 1 | 0 | 0 | N/A |
| Flooding | N/A | N/A | N/A | N/A |
| Drought | N/A | N/A | N/A | N/A |
| Snowpack Reduction | N/A | N/A | N/A | N/A |
| Air Quality Degradation | 0 | 0 | 0 | N/A |

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

| Climate Hazard | Exposure Score | Sensitivity Score | Adaptive Capacity Score | Vulnerability Score |
|---|---|---|---|---|
| Temperature and Extreme Heat | 3 | 1 | 1 | 3 |
| Extreme Precipitation | N/A | N/A | N/A | N/A |
| Sea Level Rise | 1 | 1 | 1 | 2 |
| Wildfire | 1 | 1 | 1 | 2 |
| Flooding | N/A | N/A | N/A | N/A |
| Drought | N/A | N/A | N/A | N/A |

| | | | | |
|---|---|---|---|---|
| Snowpack Reduction | N/A | N/A | N/A | N/A |
| Air Quality Degradation | 1 | 1 | 1 | 2 |

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

| Indicator | Result for Project Census Tract |
|---|---|
| Exposure Indicators | — |
| AQ-Ozone | 80.0 |
| AQ-PM | 59.0 |
| AQ-DPM | 39.7 |
| Drinking Water | 71.8 |
| Lead Risk Housing | 88.7 |
| Pesticides | 0.00 |
| Toxic Releases | 66.5 |
| Traffic | 14.7 |
| Effect Indicators | — |
| CleanUp Sites | 0.00 |
| Groundwater | 0.00 |
| Haz Waste Facilities/Generators | 16.6 |
| Impaired Water Bodies | 0.00 |
| Solid Waste | 35.7 |

| | |
|---|---|
| Sensitive Population | — |
| Asthma | 39.5 |
| Cardio-vascular | 21.5 |
| Low Birth Weights | 71.0 |
| Socioeconomic Factor Indicators | — |
| Education | 59.3 |
| Housing | 62.4 |
| Linguistic | 51.1 |
| Poverty | 37.4 |
| Unemployment | 26.9 |

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

| Indicator | Result for Project Census Tract |
|---|---|
| Economic | — |
| Above Poverty | 47.64532273 |
| Employed | 55.84498909 |
| Median HI | 59.373797 |
| Education | — |
| Bachelor's or higher | 64.85307327 |
| High school enrollment | 3.156679071 |
| Preschool enrollment | 69.60092391 |
| Transportation | — |
| Auto Access | 57.21801617 |
| Active commuting | 58.51405107 |
| Social | — |
| 2-parent households | 41.42178878 |
| Voting | 86.66752214 |

| | |
|---|---|
| Neighborhood | — |
| Alcohol availability | 34.72346978 |
| Park access | 52.88079045 |
| Retail density | 34.54382138 |
| Supermarket access | 84.46041319 |
| Tree canopy | 84.47324522 |
| Housing | — |
| Homeownership | 45.0019248 |
| Housing habitability | 29.05171308 |
| Low-inc homeowner severe housing cost burden | 11.98511485 |
| Low-inc renter severe housing cost burden | 36.0708328 |
| Uncrowded housing | 26.21583472 |
| Health Outcomes | — |
| Insured adults | 41.5629411 |
| Arthritis | 0.0 |
| Asthma ER Admissions | 59.7 |
| High Blood Pressure | 0.0 |
| Cancer (excluding skin) | 0.0 |
| Asthma | 0.0 |
| Coronary Heart Disease | 0.0 |
| Chronic Obstructive Pulmonary Disease | 0.0 |
| Diagnosed Diabetes | 0.0 |
| Life Expectancy at Birth | 70.1 |
| Cognitively Disabled | 66.4 |
| Physically  Disabled | 81.6 |
| Heart Attack ER Admissions | 80.3 |
| Mental Health Not Good | 0.0 |
| Chronic Kidney Disease | 0.0 |

| | |
|---|---|
| Obesity | 0.0 |
| Pedestrian Injuries | 70.2 |
| Physical Health Not Good | 0.0 |
| Stroke | 0.0 |
| Health Risk Behaviors | — |
| Binge Drinking | 0.0 |
| Current Smoker | 0.0 |
| No Leisure Time for Physical Activity | 0.0 |
| Climate Change Exposures | — |
| Wildfire Risk | 0.0 |
| SLR Inundation Area | 0.0 |
| Children | 61.0 |
| Elderly | 57.9 |
| English Speaking | 67.0 |
| Foreign-born | 53.0 |
| Outdoor Workers | 37.8 |
| Climate Change Adaptive Capacity | — |
| Impervious Surface Cover | 78.4 |
| Traffic Density | 29.8 |
| Traffic Access | 23.0 |
| Other Indices | — |
| Hardship | 62.8 |
| Other Decision Support | — |
| 2016 Voting | 39.9 |

## 7.3. Overall Health & Equity Scores

| Metric | Result for Project Census Tract |
|---|---|
| CalEnviroScreen 4.0 Score for Project Location (a) | 43.0 |

| | |
|---|---|
| Healthy Places Index Score for Project Location (b) | 50.0 |
| Project Located in a Designated Disadvantaged Community (Senate Bill 535) | No |
| Project Located in a Low-Income Community (Assembly Bill 1550) | No |
| Project Located in a Community Air Protection Program Community (Assembly Bill 617) | No |

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

## 7.4. Health & Equity Measures

No Health & Equity Measures selected.

## 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

## 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

# 8. User Changes to Default Data

| Screen | Justification |
|---|---|
| Construction: Construction Phases | Project existing building is 22,000 SF. Project would renovate existing building and add an additional 700 SF. Site is approximately 1.72 acres with 0.28 acres being disturbed for improvements. |
| Construction: Off-Road Equipment | Construction Equipment Expected during renovations and construction of the 700 SF add-on |

# APPENDIX E – Construction Noise Assessment

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January 8, 2025

Christie Robinson
Chambers Group, Inc.
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Costa Mesa, CA 92626

**SUBJECT: Altadena Main Library Renovation Project Construction Noise Assessment - Altadena CA**

Ldn Consulting (Ldn) has examined the construction noise conditions for the Altadena Main Library Renovation project "Project" construction. The Altadena Main Library Branch (the Branch) is located at 600 E. Mariposa Street, Altadena, CA 91001, and is situated in a residential area surrounded by residences to the South and East across Santa Rosa Avenue, Altadena Senior's Center to the West, and "Camp Mariposa" (owned by the Girl Scouts of Greater Los Angeles Chapter) to the North across E. Mariposa Street. The community of Altadena is in unincorporated Los Angeles County. The existing Branch is approximately 22,000 square feet (SF). A general vicinity map is shown in Figure 1 below.

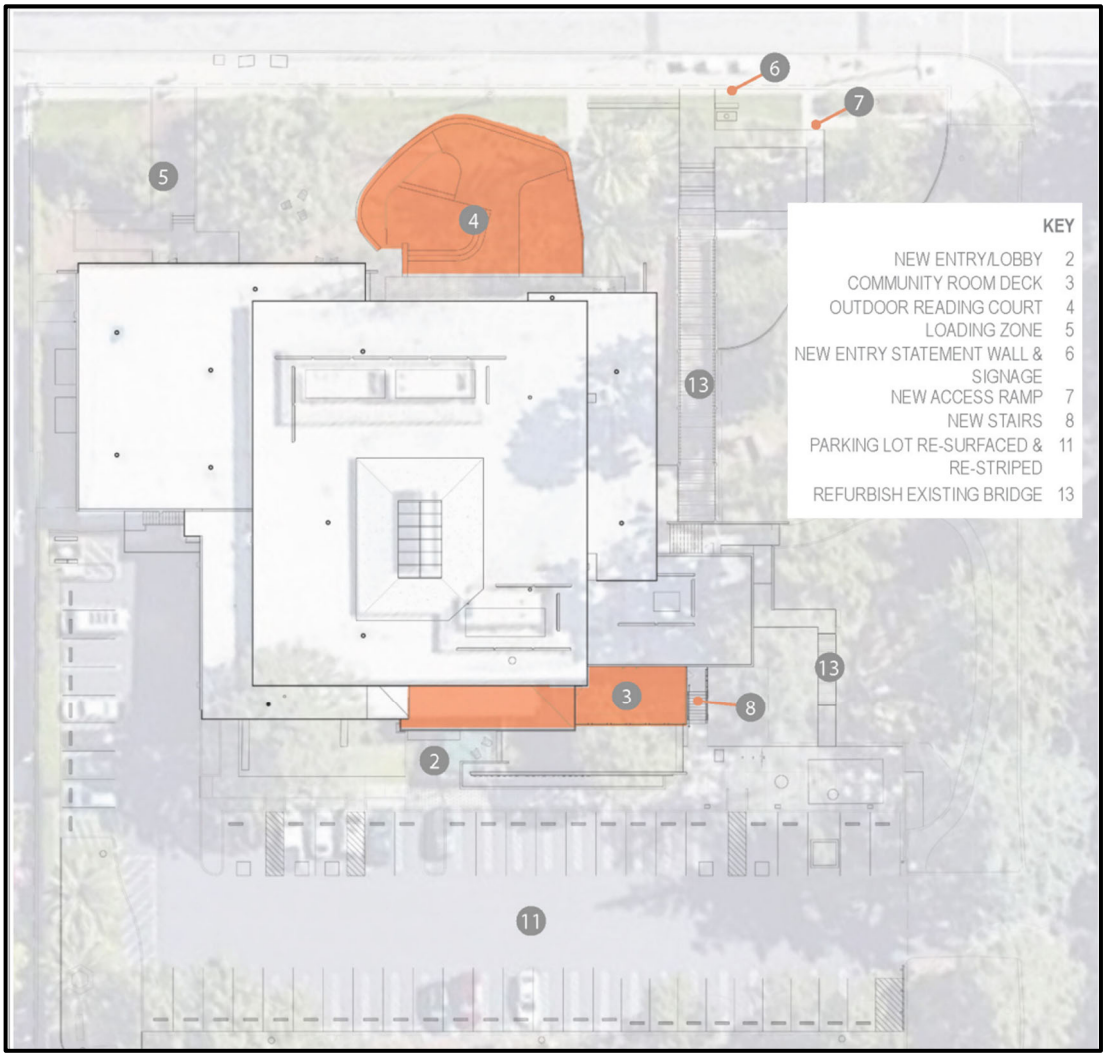
**Figure 1: Project Vicinity Map**




Source: (Google, 2024)

The planned improvements at the Main include an expansion of the building footprint approximately 700 square feet, interior space reconfigurations, access improvements, seismic retrofit, and replacement of aged building infrastructure to address mechanical (elevator and heating, ventilation, and air conditioning [HVAC]), plumbing (including additional and accessible restrooms), and electrical and structural elements of the facility. Infrastructure improvements are expected to include some modernized Audio Visual (AV) spaces with newer technology and updated communications infrastructure and structured cabling. Upgrades to plantings and irrigation and adding outdoor functional spaces are also planned. The Project is expected to occur in one phase, estimated to commence in May 2025 and be completed within 14 months. A proposed site development plan is shown in Figure 2 below.

**Figure 2: Proposed Project Site Development Plan**



**Los Angeles County Municipal Code, Noise Regulations (Noise Ordinance)**

The County regulations with respect to noise are included in Chapter 12, Noise Control, of the County Code. The Noise Regulations provide noise standards within the County. Section 12.08.440 prohibits the operation of any tools or equipment used in construction, drilling, repair, alteration or demolition work between the hours of 7:00 p.m. and 7:00 a.m., or any time on Sundays or holidays. The maximum noise allowed during the permitted construction hours at affected buildings shall not exceed the levels listed in Table 1 below.

**Table 1: Construction Noise Standards**

| Time Interval | Single-Family Residential | Multi-Family Residential | Semi-Residential/ Commercial |
|---|---|---|---|
| Mobile Equipment[1] | | | |
| 7:00 a.m. – 8:00 p.m. (daytime) | 75 dBA | 80 dBA | 85 dBA |
| 8:00 p.m. – 7:00 a.m. (nighttime) | 60 dBA | 64 dBA | 70 dBA |
| Stationary Equipment[2] | | | |
| 7:00 a.m. – 8:00 p.m. (daytime) | 60 dBA | 65 dBA | 70 dBA |
| 8:00 p.m. – 7:00 a.m. (nighttime) | 50 dBA | 55 dBA | 60 dBA |

Source: Los Angeles County 2020
Notes: [1]Mobile Equipment- Maximum noise levels for nonscheduled, intermittent, short-term operation (less than 10 days) of mobile equipment.
[2]Stationary Equipment- Maximum noise level for respectively scheduled and relatively long-term operation (periods of 10 days or more) of stationary equipment.

Section 12.08.570, Activities Exempt from Chapter Restrictions, exempts activity noise on public playgrounds and public or private school grounds. The County regulates vibration in Section 12.08.560 of the County Code. This section prohibits the operation of any device that creates a vibration that is above the vibration perception threshold of any individual at or beyond the property line of private property. The perception threshold shall be a motion velocity of 0.01 inches per second over the range of 1 to 100 Hertz.

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**Background and Analysis**

The development construction will consist of demolition of pavement and landscaping, minor grading, seismic retrofitting of the existing building, building construction, and installing of new hardscape and landscaping at the exterior of the building. Noise during the various phases would include the operation of backhoes, and front-end loaders as well as air compressors and hand-held power tools. The nearest residences to be impacted by construction are the single-family homes located adjacent to the project to the south. Noise monitoring was conducted as part of a Noise Control Plan during the construction at a larger construction site to determine the noise levels from the associated equipment. A list of the anticipated noise levels for each phase of construction is shown in Table 2.

Due to the smaller site area, less equipment will be utilized compared to the previously referenced project. Due to the site constraints, the construction equipment would not be running continuously and would be moving to other portions of the project site. Utilizing a duty-cycle of 30 minutes of any given hour that the equipment would be operating at a single location would reduce the noise levels a minimum of 3 dBA hourly.

Additionally, an existing 6-foot privacy fence is located along the southern property line which would shield the proposed construction to the existing residences both visually and acoustically. By breaking line of sight to the construction, the existing fencing would provide a minimum of 5 dBA reduction to the construction noise activities.

**Table 2: Construction List and Noise Levels**

| Construction Phase | Source Level @ 50' (dBA) | Distance from Property Line (Feet) | Noise Reduction from distance (dBA) | Noise Reduction from Duty Cycle (dBA) | Noise Reduction from Barrier (dBA) | Resultant Noise Level (dBA) |
|---|---|---|---|---|---|---|
| Site Grading | 75.7 | 110 | -6.8 | -3.0 | -5.0 | 60.9 |
| Building Construction | 68.2 | 110 | -6.8 | -3.0 | -5.0 | 53.4 |
| Architectural Coating | 62.3 | 110 | -6.8 | -3.0 | -5.0 | 47.5 |
| Paving Equipment | 71.6 | 110 | -6.8 | -3.0 | -5.0 | 56.8 |

Demolition Activities Noise Findings

It was determined that the demolition of portions of the existing building and pavement are expected to have the most noise impact potential. Not all the equipment will operate continuously over an 8-hour period, the equipment will be utilized on an as-needed basis depending on the demolition activities are required. As an example: a saw will be used to weaken some of the structural components of the structure and then the excavator would be utilized to demo that section of the structure. The excavator or a loader will then be used to place the debris into the haul trucks. Noise levels from the demolition activities can reach short-term peak noise levels in excess of 90 dBA but will decay rapidly. This is due to the fact that once the equipment knocks down a portion of the building the debris needs to be removed, sorted and inspected. Based on empirical data gathered during the monitoring of a similar project, the worst-case hourly noise level was found to be up to 81 dBA Leq at an average distance of 25 feet for demolition activities (Source: Aztec Court Noise Monitoring – San Diego, Ldn Consulting, 2012). At an average distance of 110 feet, the noise level from the demolition activities would be roughly 68 dBA. The average distance from the demolition activities is anticipated to vary between 110 feet and 240 feet from the adjacent property lines and the noise levels would be 3-6 decibels lower.

**Operational Noise**

The continued operation of the existing library would include noise-producing equipment including the heating, ventilation, and air conditioning (HVAC) units. The proposed renovation project may include upgraded equipment that is typically will be more energy efficient and quieter than the current conditions. As a result, the anticipated operational noise levels would remain the same or be reduced at the nearest noise sensitive receptor locations. Therefore, the operational noise levels would not result in significant impacts.

**Conclusions**

As shown, none of the expected stationary equipment would result in noise levels beyond the stationary equipment source threshold of 60 dBA at a residential receptor. Additionally, no mobile equipment would surpass the mobile equipment source threshold of 75 dBA at a residential receptor, either individually or combined. Therefore, Project construction activities would not expose persons to and generate noise levels in excess of County standards. Nonetheless, in addition to complying with the County's noise standards regarding construction working hours and noise levels, the Los Angeles County Public Works (LACPW) Department requires construction noise to be minimized through the implementation of best management practices (BMPs) that may include, but are not limited to, the following:

- Proper maintenance and tuning of all construction equipment engines to minimize noise emissions.
- Proper maintenance and functioning of the mufflers on all internal combustion and equipment engine.
- Locate fixed and/or stationary equipment as far as possible from noise-sensitive receptors.
- Appoint a public liaison for Project construction that would be responsible for addressing public concerns about construction activities, including excessive noise. As needed, the liaison would determine the cause of concern (e.g., starting too early, bad muffler) and implement measures to address the concern. These BMPs would reduce construction noise levels shown in Table 2.

Per this analysis, no construction noise impacts are anticipated. Additionally, operational noise levels would remain the same or be reduced. Therefore, no operational noise impacts are anticipated. If you have any questions, please do not hesitate to contact me directly at (760) 473-1253.

Sincerely,
**Ldn Consulting,**



Jeremy Louden, Principal