Initial Study/Mitigated Negative Declaration

Ramsay Park Renaissance Project

City of Watsonville

September 28, 2022







Prepared by

EMC Planning Group

PROPOSED MITIGATED NEGATIVE DECLARATION

RAMSAY PARK RENAISSANCE PROJECT

CITY OF WATSONVILLE

PREPARED FOR

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PROPOSED MITIGATED NEGATIVE DECLARATION

In Compliance with the California Environmental Quality Act (CEQA)

Project Name	Ramsay Park Renaissance Project
Lead Agency	City of Watsonville
Project Proponent	City of Watsonville
Project Location	Ramsay Park 1301 Main Street Watsonville, CA 95076
Project Description	The proposed project includes a series of improvements across Ramsay Park, an existing 26-acre, public regional park, located in the City of Watsonville south of Main Street (State Route 152), north of Harkins Slough Road, and west of Watsonville Slough. The following is a brief summary list of the proposed park improvements: **Sotomayor Soccer Field Improvements** ▪ Redesign the field with natural turf; ▪ Level out the fields using tall curbs to provide for a maximum slope of 1.2 percent, which is ideal for soccer play; ▪ Provide terraced concrete seating that can accommodate up to 150 spectators along the south side of the field that would work with the existing slope to retain the hillside; and ▪ Add field lighting, new maintenance building at the southwestern corner of the soccer fields, and possibly concessions. **Dog Park** The city has been awarded funding through the State's Prop 68 Per Capita Grant Program to construct a new dog park at the summit of the hilltop area of the park.

Exploration Center

A new 3,675 square foot, LEED-certified Exploration Center is proposed at the site of the existing play area at the southeast corner of the park. The center will include a building and plaza adjacent to the existing outdoor amphitheater, future observation deck, ADA-accessible paths, and associated landscaping and stormwater improvements.

Inclusive Playground

Planned at the lower edge of the hilltop, the play area will be split into two zones to provide play experiences for both young and older children.

Picnic Areas Redesign

The picnic areas located on the hilltop will be redesigned and is planned to include two larger group picnic areas, one of which could be for rentals, and some picnic areas that overlook the soccer field. The proposed design uses the spaces around the play area as pockets for small group picnic experiences.

Central Plaza

A new paved Central Plaza will be constructed immediately north of the existing Soccer Central indoor facility near the exiting restroom building.

Multi-Use Sports Field

The proposed project includes a redesign of the existing softball field as a synthetic turf multi-use field, which also requires reducing the size of the basketball/volleyball courts immediately to the north. A new basketball court will replace the existing basketball/volleyball courts in this area. The new multi-use field will provide a field space for not only softball and baseball teams that currently use the field, but also soccer teams as the field would have the ability to convert to a soccer field. Permanent striping for both baseball and soccer would be provided. The other amenities include bullpens, new bleachers, longer outfields, temporary outfield fencing,

picnic area between the new field and Soccer Central, and a new and smaller prefabricated score booth to replace the existing score booth building. Improvements would also include replacement of existing field lighting poles with new field lights and poles measuring between 60 and 70 feet in height.

Parking Lot Improvements

Proposed parking lot improvements are proposed at the existing (Main Street) parking lot; a new parking lot is proposed at northeast corner of park site off Main Street; and a renovated southeastern parking lot and bioretention garden.

Maintenance Road/Trail Redesign and New Multi-Use Trail Improvements

Due to the expansion of the outfield fence, part of the existing maintenance road/trail would need to be redesigned and new multi-use trail improvements, which are part of the Watsonville Slough Connector Trail Project (currently underway), would be reconstructed to accommodate the expanded field.

Site Drainage/Stormwater Management

Best management practices (BMPs) will be implemented for each of the site's three existing outfalls consistent with the historical use of each of the outfalls and support the same general functions.

Project BMPs include multiple approaches and techniques including: permeable paving in parking lots, plazas and pedestrian paving areas, rain gardens as a method to filter and slow the release of water from the site and bioretention basins and self-mitigating landscape areas. Mechanical solutions are not proposed within the current design.

The City of Watsonville will maintain and operate the stormwater improvements as part of the park operations.

	Grading/Cut & Fill A total of approximately 11.2 acres of the existing park area are anticipated to be impacted and require grading activities. The Exploration Center is expected to require a net balance of 180 cubic yards of export fill over a graded area of 0.48 acres or 20,769 square feet. For the remaining improvements at Ramsay Park, it is anticipated that approximately 6,000 cubic yards of fill material will be brought to the site to accommodate proposed improvements. **Tree Removal/Replacement** Proposed park improvements will require the removal and replacement of existing trees on the park site, including within the southern parking lot north of Harkins Slough Road and near the tennis courts south of Harkins Slough Road. 67 trees will be removed, 302 trees will remain onsite, and 237 trees will be replaced onsite. A total net gain of 170 trees will be added to the project site.
Public Review Period	September 30, 2022 to October 31, 2022
Written Comments To	Nick Calubaquib, Parks & Community Services Director City of Watsonville 231 Union Street Watsonville, CA 95076
Proposed Findings	The City of Watsonville is the custodian of the documents and other material that constitute the record of proceedings upon which this decision is based. The initial study attached hereto indicates that the proposed project has the potential to result in significant adverse environmental impacts. However, the mitigation measures identified in the initial study would reduce the impacts to a less than significant level. There is no substantial evidence, in light of the whole record before the City of Watsonville that the project, with mitigation measures incorporated, may have a significant effect on the environment. See the following project-specific mitigation measures:

Mitigation Measures

Aesthetics

AES-1 Prior to issuance of building permits for any new field lighting at Ramsay Park, the City of Watsonville Public Works Department shall obtain Dark-Sky Certification with the International Dark-Sky Association (IDA) for all proposed field lighting designs to ensure sky glow and light pollution is minimized to the extent possible. Possible lighting controls, as recommended by IDA, could include the following:

a. Automatic and/or remote control system via smartphone apps, or direct remote communication to the company facility responsible for handling the lighting controls, to enforce shut-off at locally established curfew time, not to be later than 11:00 PM (2300 hours).

b. On-site manual and/or remote control system shall also be provided to allow for the lights to be turned on or off at will (before curfew) to assure that only active sports fields are lighted.

c. Provide readily accessible controls to implement uniform and variable adaptive illumination levels for different task lighting needs on field, e.g. class of play, competition athletics, band practice, striping, mowing, sports practice, etc. Adaptive dimming shall be possible across the range of 25% to 100% of full illumination.

d. A formal policy defining the appropriate level of illumination necessary for the specific activities and curfew times must be established and enforced.

Public Works staff shall submit all proposed sports field lighting designs utilizing the "IDA Community Friendly Outdoor Sports Lighting Program Application" to complete IDA's Phase I – Design Analysis review process. Once project improvements are installed, the City's Public Works staff shall submit for IDA's Phase II – Field Verification.

Air Quality

AQ-1 To reduce dust emissions from demolition, grading, and construction activities on the project site, the City of Watsonville will prepare a Construction Management Plan and implement it during construction activities. The plan will include the following measures:

a. The following language shall be included in all bid documents, grading and construction plans prior to the issuance of a building permit, and will be implemented by the project contractor during construction:

1. All exposed surfaces (e.g., parking areas, staging area, soil piles, graded areas, and unpaved access roads) will be watered with non-potable water twice per day, at a minimum.

2. All haul trucks transporting soil, sand, or other loose material off-site will be covered.

3. All vehicle speeds on unpaved roads will be limited to 15 miles per hour.

4. All roadways, driveways, and sidewalks to be paved will be completed as soon as possible. Building pads will be laid as soon as possible after grading unless seeding or soil binders are used.

5. Idling times will be minimized either by shutting equipment off when not in use or reducing the maximum idling time to 5 minutes (as required by the California airborne toxics control measure Title 13, Section 2485 of California Code of Regulations [CCR]). Clear signage shall be provided for construction workers at all access points.

6. All construction equipment will be maintained and properly tuned in accordance with manufacturer's specifications. All equipment shall be checked by a certified mechanic and determined to be running in proper condition prior to operation.

7. Stage construction equipment and materials as far away from residential land uses to the extent feasible.

AQ-2 The City of Watsonville will include the following measures in its Construction Management Plan identified in Mitigation Measure AQ-1:

a. Heavy-duty diesel vehicles will have 2010 or newer model year engines, in compliance with the California Air Resources Board's Truck and Bus Regulation, and will not be staged within 500 feet of occupied residences.

b. Idling of construction equipment and heavy-duty diesel trucks will be avoided where feasible, and if idling is necessary, it will not exceed three minutes.

c. All construction equipment will be maintained and properly tuned in accordance with manufacturer's specifications and will be checked by a certified visible emissions evaluator.

d. All non-road diesel construction equipment will, at a minimum, meet Tier 3 emission standards listed in the Code of Federal Regulations Title 40, Part 89, Subpart B, §89.112. Further, where feasible, construction equipment will use alternative fuels such as compressed natural gas, propane, electricity or biodiesel.

Biological Resources

BIO-1 The blooming season prior to ground disturbance (May/June to October), a biologist qualified in botany shall conduct a focused survey for Santa Cruz tarplant and Congdon's tarplant in accordance with current CDFW and CNPS rare plant survey protocols (CDFW 2018 and CNPS 2001). The survey shall be conducted in the areas shown in Figure 11, Habitat Map, and shall occur during the peak blooming period for these species to determine their presence or absence (typically August through September). If possible, known reference populations of the target species in the project vicinity shall first be visited to verify that the species is observable, and the focused survey shall be conducted within two weeks of observing the reference population in full bloom.

If neither species is found or if either species is observed and impacts can be completely avoided, then no further mitigation would be required. The biologist shall prepare a brief report documenting the results of the survey for submittal to the City of Watsonville prior to ground disturbance.

If the focused surveys identify Congdon's tarplant within the project site boundary and it would be affected by the proposed project, then appropriate mitigation shall be developed by the biologist and implemented by the City of Watsonville prior to issuance of a grading permit. Measures may include, but are not limited to:

a. A qualified biologist shall identify an on-site or off-site mitigation area suitable for restoration of habitat and seed transplantation for this annual herb. The City of Watsonville shall be responsible for the placement of a conservation easement over the mitigation area and the provision of funds to ensure the restoration of the mitigation area and its preservation in perpetuity.

b. Prior to approval of a grading permit, a qualified biologist or native plant specialist shall perform seed collection from all special-status plants located within the impact areas and implement seed installation at the mitigation area

at the optimal time. Additionally, topsoil from the special-status species occurrence area(s) shall be salvaged (where practical) for use in the mitigation area.

c. A maintenance and monitoring program shall be developed by a qualified biologist and established for a minimum of five years after mitigation area installation to verify that restoration activities have been successful. Maintenance activities may include, but not be limited to, watering during the plant establishment period, supplemental seed planting as needed, and removal of non-native plants. Monitoring shall include, at a minimum, quarterly monitoring reports for the first year and annual reports for the remaining four years. The performance standard for successful mitigation shall be a minimum 3:1 replacement ratio (i.e., three plants observed in mitigation area for each plant lost from the project site) achieved in at least one of the five years of monitoring.

If the focused surveys identify Santa Cruz tarplant within the project site boundary and it would be affected by the proposed project, then an incidental take permit shall be obtained from the California Department of Fish and Wildlife and possibly the U.S. Fish and Wildlife Service (if federally listed wildlife species will also be impacted). Measures to avoid, minimize, and mitigate impacts to Santa Cruz tarplant may include, but not be limited to, those listed in in (1), above, and will be further refined in the incidental take permit(s). Permit(s) shall be acquired, and measures shall be implemented by the City of Watsonville prior to ground disturbance.

BIO-2 The City of Watsonville shall hire a qualified biologist to conduct preconstruction surveys following the guidance documented in the Revised Guidance on Site Assessments and Field Surveys for the California Red-legged Frog (USFWS 2005) no more than two weeks (14 days) prior to the start of construction activities. The project site will be surveyed for potential migratory and/or upland activity. The qualified biologist shall prepare a report documenting the results of the preconstruction surveys for submittal to the City of Watsonville prior to ground disturbance.

If California red-legged frog is found, the City of Watsonville will coordinate with the USFWS and/or CDFW to determine the appropriate course of action per the requirements of FESA and/or CESA (e.g., obtaining Incidental Take Permits) and implement the permit requirements prior to ground disturbance.

BIO-3 Prior to approval of a grading permit, the City of Watsonville shall hire a qualified biologist to conduct a training session for all construction personnel. At

a minimum, the training shall include a description of special-status species potentially occurring in the project vicinity, including, but not limited to, California red-legged frog, western pond turtle, tricolored blackbird, monarch butterfly, special-status bats, and nesting birds and raptors. Their habitats, general measures that are being implemented to conserve species as they relate to the project, and the boundaries within which construction activities will occur will be explained. Informational handouts with photographs clearly illustrating the species' appearances shall be used in the training session. All new construction personnel shall undergo this mandatory environmental awareness training.

The qualified biologist will train biological monitors selected from the construction crew by the construction contractor (typically the project foreman). Before the start of work each day, the monitor will check for animals under any equipment such as vehicles and stored pipes within active construction zones. The monitor will also check all excavated steep-walled holes or trenches greater than one foot deep for trapped animals. If a special-status species is observed within an active construction zone, the qualified biologist will be notified immediately and all work within 50 feet of the individual will be halted and all equipment turned off until the individual has left the construction area.

The qualified biologist shall provide documented evidence of completion of this training to the City of Watsonville prior to ground disturbance.

BIO-4 The City of Watsonville shall ensure the following measures from the USFWS Programmatic Biological Opinion for Issuance of Permits under Section 404 of the Clean Water Act and Section 10 of the Rivers and Harbors Act, including Authorizations Under 22 Nationwide Permits, for Projects that May Affect the Threatened California Red-legged Frog in Nine San Francisco Bay Area Counties, California (USFWS 2014) are implemented. If at any point California red-legged frog is found, the City of Watsonville will coordinate with the USFWS and/or CDFW to determine the appropriate course of action per the requirements of FESA and/or CESA (e.g., obtaining Incidental Take Permits) and implement the permit requirements prior to ground disturbance.

a. A qualified biologist shall be on site during all activities within 200 feet from the outer edge of wetland vegetation along Watsonville Slough.

b. To the extent possible, all ground-disturbing work within 200 feet from the outer edge of wetland vegetation along Watsonville Slough shall be avoided between November 1 and March 31, the time period when California red-legged frogs are most likely to be moving through upland areas.

c. Prior to construction activities, exclusionary fencing shall be placed to keep construction vehicles and personnel from impacting potentially jurisdictional waters and riparian/wetland habitat outside of work areas. A biological monitor shall supervise the installation of exclusionary fencing and monitor at least once per week until construction is complete to ensure that the protective exclusionary fencing remains intact. Exclusion fencing material shall be selected to avoid accidental entrapment of wildlife species, such as fencing with a smaller gauge or no gaps at all (e.g., Animex™ fencing).

d. To minimize harassment, injury, death, and harm in the form of temporary habitat disturbances, all project-related vehicle traffic shall be restricted to established roads, construction areas, equipment staging, storage, parking, and stockpile areas.

e. If a California red-legged frog is encountered, all activities which have the potential to result in the harassment, injury, or death of the individual shall be immediately halted. A qualified biologist shall then assess the situation and select a course of action that shall avoid or minimize adverse effects to the animal.

f. Uneaten human food and trash attracts crows, ravens, coyotes, and other predators of the California red-legged frog. A litter control program shall be instituted at each project site. All workers shall ensure their food scraps, paper wrappers, food containers, cans, bottles, and other trash are deposited in covered or closed trash containers. The trash containers shall be removed from the project site at the end of each working day.

g. Loss of soil from run-off or erosion shall be prevented with straw bales, straw wattles, or similar means provided they do not entangle, block escape or dispersal routes of the California red-legged frog.

h. No insecticides or herbicides shall be used at the project site during construction or long-term operational maintenance where there is the potential for these chemical agents to enter the river, or uplands that contain potential habitat for the California red-legged frog.

i. No pets shall be permitted at the project site, to avoid and minimize the potential for harassment, injury, and death of the California red-legged frog.

j. For on-site storage of pipes, conduits, and other materials that could provide shelter for special-status species, an open-top trailer shall be used to elevate the materials above ground. This is intended to reduce the potential for animals to climb into the conduits and other materials.

k. To the maximum extent possible, night-time construction shall be minimized or avoided because dusk and dawn are often the times when the California red-legged frog is most actively moving and foraging.

l. Plastic monofilament netting (erosion control matting), loosely woven netting, or similar material in any form shall not be used at the project site because California red-legged frogs can become entangled and trapped in them. Materials utilizing fixed weaves (strands cannot move), polypropylene, polymer, or other synthetic materials shall not be used.

m. Trenches or pits one foot or deeper that are going to be left unfilled for more than 48 hours shall be securely covered with boards or other material to prevent the California red-legged frog from falling into them.

The qualified biologist shall submit monthly reports documenting compliance with Measure BIO-4 to the City of Watsonville during construction within 200 feet from the outer edge of wetland vegetation along Watsonville Slough.

BIO-5 The City of Watsonville shall implement the following measures for the protection of western pond turtle:

a. Within 24 hours prior to vegetation removal or ground-disturbing activities within 200 feet from the outer edge of riparian vegetation along Watsonville Slough, the City of Watsonville shall retain a qualified biologist familiar with western pond turtles, including their eggs and nests, to conduct a pre-construction survey of the area in and adjacent to the project site. If any pond turtles are found in or adjacent to the project site, construction activities shall not commence until the turtles have left the area or the qualified biologist relocates the turtles to nearby suitable habitat a minimum of 300 feet from the project site. Pond turtle relocation shall only be conducted with CDFW authorization.

b. During all initial ground-disturbing activities within 200 feet from the outer edge of wetland vegetation along Watsonville Slough, the qualified biologist shall monitor construction activity to assess the potential impacts to turtles and/or their nests, if present. If a western pond turtle nest is discovered during initial ground-disturbing activity, all work shall stop and the CDFW

shall be contacted for guidance on how to proceed. Relocation of pond turtles and/or their nests shall only be conducted with CDFW authorization.

c. Disturbance to riparian vegetation along Watsonville Slough shall be avoided. Placement of all staging areas, access roads, and other construction related facilities shall be located away from Watsonville Slough.

d. Within 200 feet from the outer edge of wetland vegetation along Watsonville Slough, all construction-related holes shall be covered at the end of each workday to prevent entrapment of western pond turtles.

The qualified biologist shall prepare a report documenting the results of the preconstruction survey for submittal to the City of Watsonville prior to ground disturbance. The qualified biologist shall submit monthly reports documenting compliance with measures 5b – 5d to the City of Watsonville during construction within 200 feet from the outer edge of wetland vegetation along Watsonville Slough.

BIO-6 Butterfly Survey and Avoidance. Prior to initiation of ground disturbance, a late fall/early winter butterfly survey of trees on the project site shall be conducted by a qualified biologist. A copy of the survey shall be submitted to the City of Watsonville upon completion. If the results of the survey do not identify any potential overwintering monarch butterflies on-site, not further mitigation is required. If overwintering monarchs are determined to use the site, the City shall avoid removal of trees used for overwintering by monarchs to the greatest extent feasible. If trees cannot be avoided, tree removal shall occur outside of the overwintering period, which generally occurs from November through February, or until a qualified biologist has determined that overwintering monarchs are no longer using the site.

BIO-7 Approximately 14 days prior to tree removal or construction activities, a qualified biologist shall conduct a habitat assessment for bats and potential roosting sites in trees to be removed, in trees within 50 feet of the construction easement. These surveys shall include a visual inspection of potential roosting features (bats need not be present) and a search for presence of guano within the project site, construction access routes, and 50 feet around these areas. Cavities, crevices, exfoliating bark, and bark fissures that could provide suitable potential nest or roost habitat for bats shall be surveyed. Assumptions can be made on what species is present due to observed visual characteristics along with habitat use, or the bats can be identified to the species level with the use of a bat echolocation

detector such as an "Anabat" unit. Potential roosting features found during the survey shall be flagged or marked.

If no roosting sites or bats are found, a letter report confirming absence shall be prepared and submitted to City of Watsonville and no further mitigation is required. If bats or roosting sites are found, bats shall not be disturbed without specific notice to and consultation with CDFW.

If bats are found roosting outside of the nursery season (May 1 through October 1), CDFW shall be consulted prior to any eviction or other action. If avoidance or postponement is not feasible, a Bat Eviction Plan will be submitted to CDFW for written approval prior to project implementation. A request to evict bats from a roost includes details for excluding bats from the roost site and monitoring to ensure that all bats have exited the roost prior to the start of activity and are unable to re-enter the roost until activity is completed. Any bat eviction shall be timed to avoid lactation and young-rearing. If bats are found roosting during the nursery season, they shall be monitored to determine if the roost site is a maternal roost. This could occur by either visual inspection of the roost bat pups, if possible, or by monitoring the roost after the adults leave for the night to listen for bat pups. Because bat pups cannot leave the roost until they are mature enough, eviction of a maternal roost cannot occur during the nursery season. Therefore, if a maternal roost is present, a 50-foot buffer zone (or different size if determined in consultation with the CDFW) shall be established around the roosting site within which no construction activities including tree removal or structure disturbance shall occur until after the nursery season. Once the absence of roosting bats has been confirmed, a letter report will be prepared and submitted to the City of Watsonville.

BIO-8 The current construction schedule will require 18 months to complete. If construction is initiated during the bird nesting season (January 15 through September 15), then a qualified biologist will conduct a pre-construction survey for nesting birds to ensure that no nests would be disturbed during project construction.

a. Two surveys for active bird nests will occur within 14 days prior to start of construction, with the final survey conducted within 48 hours prior to construction. Appropriate minimum survey radii surrounding each work area are typically 250 feet for passerines, 500 feet for smaller raptors, and 1,000 feet for larger raptors. Surveys will be conducted at the appropriate times of day to observe nesting activities. Locations off the site to which access is not available may be surveyed from within the site or from public areas. If no nesting birds are

found, a letter report confirming absence will be prepared and submitted to the City of Watsonville and no further mitigation is required.

b. If the qualified biologist documents active nests within the project site or in nearby surrounding areas, an appropriate buffer between each nest and active construction shall be established. The buffer shall be clearly marked and maintained until the young have fledged and are foraging independently. Prior to construction, the qualified biologist shall conduct baseline monitoring of each nest to characterize "normal" bird behavior and establish a buffer distance, which allows the birds to exhibit normal behavior. The qualified biologist shall monitor the nesting birds daily during construction activities and increase the buffer if birds show signs of unusual or distressed behavior (e.g., defensive flights and vocalizations, standing up from a brooding position, and/or flying away from the nest). If buffer establishment is not possible, the qualified biologist or construction foreman shall have the authority to cease all construction work in the area until the young have fledged and the nest is no longer active. Once the absence of nesting birds has been confirmed, a letter report will be prepared and submitted to the City of Watsonville.

BIO-9 Given the high quality and diverse ecological functions of the Watsonville Slough habitats; construction activities shall be set back at least 50 feet from the outer edge of wetland vegetation.

All fueling and maintenance of vehicles and other equipment and staging areas shall occur at least 50 feet from aquatic habitat. Prior to the onset of work, the construction contractor shall provide written documentation to the City of Watsonville that a plan to allow a prompt and effective response to any accidental spills has been prepared. All spills shall be cleaned up immediately with contaminated materials disposed of offsite in an appropriate facility.

BIO-10 On-site landscaping shall be limited to drought-tolerant species, fire-resistant species, and species capable of increasing soil stability; with preference to plant species endemic to Santa Cruz County. Species from the California Invasive Plant Council's (Cal-IPC) Invasive Plant List (Cal-IPC 2019) shall be removed if present and not included in any new landscaping.

BIO-11 If impacts to riparian or wetland areas cannot be avoided, the City of Watsonville will retain a qualified biologist to determine the extent of potential wetlands and waterways regulated by the United States Army Corps of Engineers (USACE), Regional Water Quality Control Board (RWQCB), and CDFW. If the USACE claims jurisdiction, the City shall retain a qualified biologist to obtain a Clean Water Act Section 404 Nationwide Permit. If the impacts to the drainage features

do not qualify for a Nationwide Permit, the City will proceed with the qualified biologist in obtaining an Individual Permit from the USACE. The City will then retain a qualified biologist to coordinate with the RWQCB to obtain a Clean Water Act Section 401 Water Quality Certification. If necessary, the City will also retain a qualified biologist to coordinate with the CDFW to obtain a Streambed Alteration Agreement.

To compensate for temporary and/or permanent impacts to Waters of the U.S. that would be impacted as a result of the proposed project, mitigation shall be provided as required by the regulatory permits. Mitigation would be provided through one of the following mechanisms:

a. A Wetland Mitigation and Monitoring Plan shall be developed that will outline mitigation and monitoring obligations for temporary impacts to wetlands and other waters as a result of construction activities. The Wetland Mitigation and Monitoring Plan would include thresholds of success, monitoring and reporting requirements, and site-specific plans to compensate for wetland losses resulting from the project. The Wetland Mitigation and Monitoring Plan shall be submitted to the appropriate regulatory agencies for review and approval during the permit application process.

b. To compensate for permanent impacts, the purchase and/or dedication of land to provide suitable wetland restoration or creation shall ensure a no net loss of wetland values or functions. If restoration is available and feasible, a minimum 1:1 mitigation to impact ratio would apply to projects for which mitigation is provided in advance.

BIO-12 Prior to City approval of the construction plans, the following design guidelines for outdoor lighting shall be incorporated:

a. New outer outdoor lighting shall be directed away from the adjacent sensitive habitats associated with Watsonville Slough.

b. Dimmer lights, the use of motion sensors, and late night off-periods shall be used to minimize lighting impacts to the adjacent sensitive habitat.

c. Generally following the International Dark-Sky Association guidelines for minimizing light pollution, outdoor lighting shall be provided in a manner that provides for nighttime safety, utility, security, and enjoyment while preventing light trespass into natural areas surrounding the sites.

d. The design objective shall be to preclude any net increase in ambient lighting into adjacent sensitive habitats.

e. All external lighting shall include full-cutoff angles, which focus on target areas and do not extend to adjacent sensitive habitat.

f. Any pedestrian/bicycle pathway safety lighting shall be limited to low-bollard style lights that limit illumination to the trail surface.

Cultural Resources

CR-1 A qualified archaeologist shall provide archaeological and cultural sensitivity training for all construction personnel associated with any ground disturbing activities (including tree and vegetation removal, tree planting, demolition and/or grading).

The training will be conducted by a qualified archaeologist that meets the Secretary of the Interior's standards for archaeology. The training will take place at a day and time to be determined in conjunction with the project construction foreman, and prior to any scheduled ground disturbance. The training will include the following: a human osteology handout; a discussion of applicable laws and penalties; samples or visual aids of artifacts that could be encountered in the project vicinity, including what those artifacts and resources may look like partially buried, or wholly buried and freshly exposed; and instructions to halt work in the vicinity of any potential cultural resource discovery, and notify the Native American monitor as necessary. Due to the proximity of human burials, it is recommended that all personnel directly involved in project-related ground disturbance be informed of what human skeletal remains may look like partially buried, or wholly buried and freshly exposed and instructions to halt work in the vicinity of any human remains discovery. The foreman will keep a copy of the sensitivity training materials in his or her vehicle as a reference. Having reference material in the vehicle does not replace contacting an archaeologist or a Native American monitor should resources be uncovered.

CR-2 If any prehistoric or historic subsurface cultural resources, including tribal cultural resources, are discovered during ground-disturbing activities (including tree and vegetation removal, tree planting, demolition and/or grading):

a. All work within 50 feet of the resources shall be halted and a qualified archaeologist shall be consulted to assess the significance of the find according to CEQA Guidelines Section 15064.5.

b. If any find is determined to be significant, representatives from the City of Watsonville Recreation Department and the archaeologist shall meet to determine the appropriate avoidance measures or other appropriate mitigation.

c. All significant prehistoric cultural materials and or tribal cultural resources recovered shall be returned to Native American tribes traditionally and culturally affiliated with the area.

d. In considering any suggested mitigation proposed by the consulting archaeologist to mitigate impacts to historical resources or unique archaeological resources, the City shall determine whether avoidance is necessary and feasible in light of factors such as the nature of the find, proposed project design, costs, and other considerations.

e. If avoidance is infeasible, other appropriate measures (e.g., data recovery) would be implemented.

f. Work may proceed on other parts of the project site while mitigation for historical resources or unique archaeological resources is being carried out.

CR-3 California Health and Safety Code Section 7050.5 and the CEQA Guidelines Section 15064.5(e) contain the mandated procedures of conduct following the discovery of human remains. According to the provisions in CEQA, if human remains are encountered at the site, all work in the immediate vicinity of the discovery shall cease and necessary steps to ensure the integrity of the immediate area shall be taken. The Santa Cruz County Coroner shall be notified immediately. The Coroner shall then determine whether the remains are Native American. If the Coroner determines the remains are Native American, the Coroner shall notify the Native American Heritage Commission within 24 hours, who would, in turn, notify the person the Native American Heritage Commission identifies as the Most Likely Descendant of any human remains. Further actions shall be determined, in part, by the desires of the Most Likely Descendant. The Most Likely Descendant has 48 hours to make recommendations regarding the disposition of the remains following notification from the Native American Heritage Commission of the discovery. If the Most Likely Descendant does not make recommendations within 48 hours, the owner shall, with appropriate dignity, reinter the remains in an area of the property secure from further disturbance. Alternatively, if the owner does not accept the Most Likely Descendant's recommendations, the owner or the descendent may request mediation by the Native American Heritage Commission.

Geology and Soils

GEO-1 If paleontological resources are unearthed during ground-disturbing activities, ground-disturbing activities shall be halted or diverted away from the vicinity of the find so that the find can be evaluated. A buffer area of at least 50 feet shall be established around the find where construction activities shall not be allowed to continue until appropriate paleontological treatment plan has been prepared and approved by the City Planning Department. Work shall be allowed to continue outside of the buffer area. The City shall coordinate with a professional paleontologist, who meets the qualifications set forth by the Society of Vertebrate Paleontology, to develop an appropriate treatment plan for the resources. Treatment may include implementation of paleontological salvage excavations to remove the resource along with subsequent laboratory processing and analysis or preservation in place. At the paleontologist's discretion and to reduce construction delay, the grading and excavation contractor shall assist in removing rock samples for initial processing. Paleontological monitoring may be required and will be outlined in the treatment plan.

Greenhouse Gas Emissions

GHG-1 Through its project development review process, the city will require that the proposed project incorporate all applicable GHG reduction measures identified in the City of Watsonville Climate Action and Adaptation Plan (CAAP). These reduction measures are anticipated to include: T2-A regarding pedestrian improvements, T7-B regarding electric vehicle charging stations, E1-A regarding reduced use of natural gas in new buildings, E3-B regarding switching the electricity account for Ramsay Park to 3CE Prime, and E4-A regarding installing cool roofs. This list may be refined pending review of detailed design and construction plans for the project. The city will ensure that all applicable reduction measures are included in the project design prior to approval of a building permit.

Noise

N-1. The City of Watsonville Parks & Community Services shall incorporate the following construction noise best management practices into all applicable project bid, design, and engineering documents:

1. Construction work hours shall be limited to the hours of 7:00 AM to 7:00 PM (Monday-Friday), 10 AM to 4 PM (Saturday), and no construction activities permitted on Sundays.

2. The sign shall also provide a contact name and phone number for the job site and the project's representative for addressing noise concerns.

3. Heavy equipment engines shall be covered and exhaust pipes shall include a muffler in good working condition.

4. Stationary equipment such as compressors, generators, and welder machines shall be located as far away from surrounding residential land uses as possible. The project shall connect to existing electrical service at the site to avoid the use of stationary, diesel- or other alternatively-fueled power generators, if feasible.

5. Impact tools such as jack hammers shall be hydraulically or electrically powered wherever possible to avoid noise associated with compressed air exhaust from pneumatically powered tools. When use of pneumatic tools is unavoidable, it shall be ensured the tool will not exceed a decibel limit of 85 dBA at a distance of 50 feet. Pneumatic tools shall also include a noise suppression device on the compressed air exhaust.

6. No radios or other amplified sound devices shall be audible beyond the property line of the construction site.

7. Prior to the start of any construction activity, the City Public Works Department shall prepare a Construction Noise Complaint Plan that identifies the name and/or title and contact information (including phone number and email) of the Public Works-representative(s) responsible for addressing construction-noise related issues and details how the City and its construction contractor(s) will receive, respond, and resolve to construction noise complaints. At a minimum, upon receipt of a noise complaint, the City and/or contractor representative identified in the Plan shall identify the noise source generating the complaint, determine the cause of the complaint, and take steps to resolve the complaint.

Tribal Cultural Resources

TRC-1 Prior to issuance of any grading permits, the City shall ensure an Amah Mutsun Tribal Band monitor is retained to be on-site for all ground disturbing work within 400-feet of Watsonville Slough's approximate wetland edge as reflected in the Cultural Resources Plan prepared in consultation with the Amah Mutsun Tribal Band.

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INITIAL STUDY

RAMSAY PARK RENAISSANCE PROJECT

CITY OF WATSONVILLE

PREPARED FOR

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September 28, 2022

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A. BACKGROUND

Project Title	Ramsay Park Renaissance Project
Lead Agency Contact Person and Phone Number	Nick Calubaquib Parks & Community Services Director City of Watsonville 831-768-3246
Date Prepared	September 28, 2022
Study Prepared by	EMC Planning Group Inc. 601 Abrego Street Monterey, CA 93940
Project Location	1301 Main Street Watsonville, CA 95076
Project Sponsor Name and Address	City of Watsonville
General Plan Designation	Public/Quasi-Public
Zoning	PF: Public Facilities

Setting

Ramsay Park, an existing 26-acre, public regional park, is located in the City of Watsonville (city) south of Main Street (State Route 152), north of Harkins Slough Road, and west of Watsonville Slough. Ramsay Park is the largest park space in the city. The park site has a *Watsonville 2005 General Plan* (general plan) land use designation of "Public/Quasi-Public" and is zoned "PF: Public Facilities." The park is bordered to the west by a large commercial shopping center, to the north across Main Street by a combination of commercial and residential neighborhoods, to the east by Watsonville Slough and a new shopping center currently under construction, and to the south by residential neighborhoods across Harkins Slough Road. Figure 1, Location Map, presents the regional and vicinity location of the project site. Figure 2, Aerial Photograph, presents an aerial view of the project site and immediate surroundings. Figure 3, Site Photographs, presents photographs taken at the project site in January 2022.

Ramsay Park offers recreational experiences ranging from passive use walking trails to active use athletic fields. Current park facilities include:

- Athletic fields including the Sotomayor Soccer Fields and Ramsay Park Softball field;
- An indoor soccer facility (Soccer Central);
- Paved and unpaved walking paths throughout the park;
- Picnic areas located in the hilltop area of the park;
- Two playgrounds located in the hilltop area and on the southeastern slopes of the hilltop area near the outdoor amphitheater;

- A skatepark located near the Main Street parking lot entrance;
- A 20,000 square foot paved pump track course;
- A basketball court and a volleyball court;
- Watsonville Nature Center;
- Ramsay Park Family Center; and
- Tennis courts on the south side of Harkins Slough Road.

Existing park lighting includes softball field lighting and security lighting and cameras on various buildings and in both parking lots.

Description of Project

Proposed park improvements are described below and are presented in Figure 4, Illustrative Site Plan. Detailed, 65 percent construction plans are included in Appendix A. The proposed improvements would take place entirely within the existing park boundaries. The proposed project is not expected to increase traffic to the park and no new vehicle trips are anticipated as the project would ensure that park quality is maintained so users aren't required to travel to more distant parks for certain amenities and recreational opportunities. Construction would result in temporary traffic.

Sotomayor Soccer Field Improvements

The two existing soccer fields located at the northern edge of the park fronting Main Street are full-size, natural grass soccer fields and are utilized by youth and adult soccer leagues. The fields feature a chain link fence perimeter with netting along Main Street. Approximately one-half of the soccer fields are located in the 100-year flood plain and are currently at a natural slope that is not ideal for play. In order to address the existing flooding and drainage issues associated with the location of the soccer fields, the following improvements are proposed:

- Redesign the field with natural turf;
- Level out the fields using tall curbs to provide for a maximum slope of 1.2 percent, which is ideal for soccer play;
- Provide terraced concrete seating that can accommodate up to 150 spectators along the south side of the field that would work with the existing slope to retain the hillside; and
- Add field lighting, new maintenance building at the southwestern corner of the soccer fields, and possibly concessions.

New field lighting would consist of six lighting poles measuring between 70 and 80 feet in height and containing between 5 and 8 luminaires per pole for a total of 36 luminaires. According to Musco Sports Lighting, the average footcandle will be 37.30 with a maximum of 57. A footcandle is a unit of illuminance on a surface that is everywhere one foot from a uniform point source of light of one candle and equal to one lumen per square foot (Merriam-Webster 2022). The proposed light pole locations and lighting intensity measurements as measured by footcandle are illustrated in Figure 5, Ramsay Park Soccer Fields Illumination Summary.

Dog Park

The city has been awarded funding through the State's Prop 68 Per Capita Grant Program to construct a new dog park at the summit of the hilltop area of the park, as a dog park is one of the few site elements that could work with the varying steep terrain. Areas for small dogs and large dogs, an accessible path of travel to the entry into the dog park from the Main Street parking lot, and perimeter fencing and amenities are planned.

Exploration Center

A new 3,675 square foot, LEED-certified Exploration Center is proposed at the site of the existing play area at the southeast corner of the park. The center will include a building and plaza adjacent to the existing outdoor amphitheater, future observation deck, ADA-accessible paths, and associated landscaping and stormwater improvements. A conceptual design is included in Figure 6, Exploration Center Conceptual Design. In addition, the Exploration Center will feature:

- Open shared office space;
- Interactive conservation and natural history exhibitions throughout the entire building;
- Multi-purpose teaching space to accommodate up to 30 people for workshops with round tables for community us, up to 75 people for lectures with chairs for community members and a podium for a speaker to present using a drop-down projector screen;
- Two gender neutral bathrooms;
- Kitchenette for staff and demonstrations;
- Storage space for art and office supplies;
- Roof structure outfitted with photovoltaic solar panels, water heating panels, living roof, and rainwater catchment system draining into water retention tank behind the center; and
- Utilities rooms serving both the center and other areas of the overall Ramsay Park Masterplan project.

The goal for the new Exploration Center is to serve as a Conservation Resource Center engaging visitors in energy conservation, waste reduction, water-use efficiency, wastewater management, recycled water, watershed protection, and climate action to ensure the long-term quality of life, health and well-being of the Watsonville community. In addition, the Exploration Center includes a number of features that would directly or indirectly serve to reduce GHG emissions. These include: 1) internal pedestrian network the connects to the adjacent trail and to existing sidewalks bordering the site; 2) extensive tree plantings that will help to sequester carbon dioxide over time; 3) EV charging stations; and 4) Exploration Center improvements that include photovoltaic solar panels, water heating panels, a living roof (a form of "cool roof" to reduce building energy demand), all electric powered facilities (eliminating using natural gas support conversion to use of electricity provided by renewable sources); and rainwater catchment system (to reduce energy demand for water pumping).

Inclusive Playground

The play area is planned at the lower edge of the hilltop, which is the most level part of the hilltop area. This location was also selected because it is somewhat visible from Soccer Central, the multi-use field, and the proposed Exploration Center. The play area will be split into two zones to provide play experiences for both young and older children. Based on public feedback, the goal of this play area would be to provide an inclusive play area. Potential design elements include:

- Reuse or redesign large existing slide;
- Rope play elements;
- Inclusive play elements; and
- Natural style climbing elements.

Picnic Areas Redesign

The picnic areas located on the hilltop will be redesigned. The proposed design uses the spaces around the play area as pockets for small group picnic experiences where parents would have a comfortable space to watch their children play. The hilltop area also includes two larger group picnic areas, one of which could be for rentals, and some picnic areas that overlook the soccer field for use while watching the games going on below.

Central Plaza

A new paved Central Plaza will be constructed immediately north of the existing Soccer Central indoor facility near the exiting restroom building.

Multi-Use Sports Field

The proposed project includes a redesign of the existing softball field as a synthetic turf multi-use field, which also requires reducing the size of the basketball/volleyball courts immediately to the north. A new basketball court will replace the existing basketball/volleyball courts in this area. The new multi-use field will provide a field space for not only softball and baseball teams that currently use the field, but also soccer teams as the field would have the ability to convert to a soccer field. Permanent striping for both baseball and soccer would be provided. The other amenities include bullpens, new bleachers, longer outfields, temporary outfield fencing, picnic area between the new field and Soccer Central, and a new and smaller prefabricated score booth to replace the existing score booth building. Improvements would also include replacement of existing field lighting poles with new field lights and poles measuring between 60 and 70 feet in height with a total of 35 luminaires with an average footcandle of 32.52 and a maximum footcandle of 44 (Musco Sports Lighting 2022). The proposed light pole locations and lighting intensity measurements are included in Figure 7, Multi-Use Sports Field Illumination Summary.

Parking Lot Improvements

Existing (Main Street) Parking Lot Redesign

Due to the expansion of the new multi-use field, the northern (Main Street) parking lot will be reduced and redesigned. The redesigned parking lot will include 142 parking spaces as compared to the existing 152 parking spaces in the current parking lot. The parking lot will include new elective vehicle (EV) chargers. Due to the smaller size of the parking lot, the entry planting island off Main Street is to be reduced in size and an additional parking lot is proposed off Main Street immediately north of the soccer fields (see below).

New Main Street Parking Lot

The new Main Street Parking Lot will be located along the northeastern corner of the park site and will be accessed directly from Main Street (State Route 152). The new parking lot would include 30 parking spaces to add parking capacity to replace capacity lost by the addition of the multi-use field. This new parking lot will also require the redesign of the multi-use path off Main Street to provide a pedestrian connection to the new parking lot.

Renovated Southeastern Parking Lot and Bioretention Garden

The existing southeastern parking lot, where the current Nature Center is located, will be repaved and landscaped to feature 50 parking spaces, new tree plantings, and a new bioretention garden along the eastern edge of the parking lot fronting the existing trail that overlooks Watsonville Slough. The bioretention garden is intended to serve as a new low impact development (LID) stormwater management design feature and will collect and filter stormwater off the repaved parking area through the use of permeable porous paving. The existing Nature Center will be demolished and replaced by the new Exploration Center to be located north of this parking lot area.

Maintenance Road/Trail Redesign and New Multi-Use Trail Improvements

Due to the expansion of the outfield fence, part of the existing maintenance road/trail would need to be redesigned and new multi-use trail improvements, which are part of the Watsonville Slough Connector Trail Project (currently underway), would be reconstructed to accommodate the expanded field.

Site Drainage/Stormwater Management

The project site has three existing outfalls that currently serve the park. These existing outfalls labeled A, B and C are shown in the diagram included as Figure 8, Existing Site Drainage, and will not be disturbed but protected in place.

The best management practices (BMPs) associated with each outfall is consistent with the historical use of each of these outfalls and support the same general functions. Project BMPs include multiple approaches and techniques including: permeable paving in parking lots, plazas and pedestrian paving areas, rain gardens as a method to filter and slow the release of water from the site and bioretention basins and self-mitigating landscape areas. Mechanical solutions are not

proposed within the current design. The City of Watsonville will maintain and operate the stormwater improvements as part of the park operations.

Figure 9, Proposed Site Drainage and Stormwater Improvements, presents an overview of the proposed site drainage with locations of BMPs and outfalls. Outfall A will serve BMP Area A, which will consist of the landscape frontage along Main Street, the Main Street parking lot, family center and play courts. The parking lot improvements include pervious paving and biofiltration planters to treat the play courts and parking lot water before entering the line to Outfall A.

Outfall B serves the existing natural turf soccer field and will continue to serve the improved natural turf soccer field. The area is naturally filtered through the grass fields and the subdrain system is connected to Outfall B.

Outfall C serves the largest area and includes four biofiltration subsets to filter water before entering outfall C. Outfall C then opens into an existing biofiltration planter that pretreats water before entering the slough.

The following list provides details of the identified BMP areas as shown in Figure 9:

- BMP C1 serves as a primary treatment area for the dog park (natural surfacing) and children's play area.
- BMP C2 serves as a collector of water from the natural hillside and runoff from the paved walkway on the west side of the multiuse sport field. The multiuse sport field is built on native soil with rock reservoir and is considered a permeable surfacing, only the surplus water after infiltration and saturation will be directed to the outfall.
- BMP3 serves the interior paved walk and service path.
- BMP4 serves the south parking lot which includes permeable paving to act as a collector of the parking lot water to be treated in a new biofiltration planter. This planter, due to the proximity to the slough and undetermined subsoil quality is lined to prevent potential leaching of unknown substrates below the finish surface. Once filtered the water from the biofiltration planter is released to outfall C.

Grading/Cut & Fill

Based on preliminary grading plans for the proposed improvements, a total of approximately 11.2 acres of the existing park area are anticipated to be impacted and require grading activities. The Exploration Center is expected to require a net balance of 180 cubic yards of export fill over a graded area of 0.48 acres or 20,769 square feet. For the remaining improvements at Ramsay Park, it is anticipated that approximately 6,000 cubic yards of fill material will be brought to the site to accommodate proposed improvements.

Construction Schedule

Project construction is anticipated to last approximately 18 months and would tentatively start in April 2023 and end by October 2024.

Tree Removal/Replacement

Proposed park improvements will require the removal and replacement of existing trees on the park site, including within the southern parking lot north of Harkins Slough Road and near the tennis courts south of Harkins Slough Road. The following table, Table 1, Tree Removal/Replacement Totals, provides a breakdown of proposed tree removal and replacement onsite:

Table 1 Tree Removal/Replacement Totals

Existing Trees Onsite	Existing Trees to be Removed	Existing Trees to Remain	Replacement Tree Total (Onsite)	Total Existing Trees to Remain and Replaced	Total Net Gain Trees
369	67	302	237	539	170

SOURCE: Verde Design 2021

Required Lead Agency Approvals

- Administrative Use Permit
- Design Review

Note: Pursuant to Section 14-16.802(d)(5) of the Watsonville Municipal Code (WMC), park or playfields with lighted facilities are allowed conditionally in the PF Zoning District with issuance of an Administrative Use Permit with Design Review.

Other Public Agencies Whose Approval is Required

- Caltrans (Encroachment Permit)

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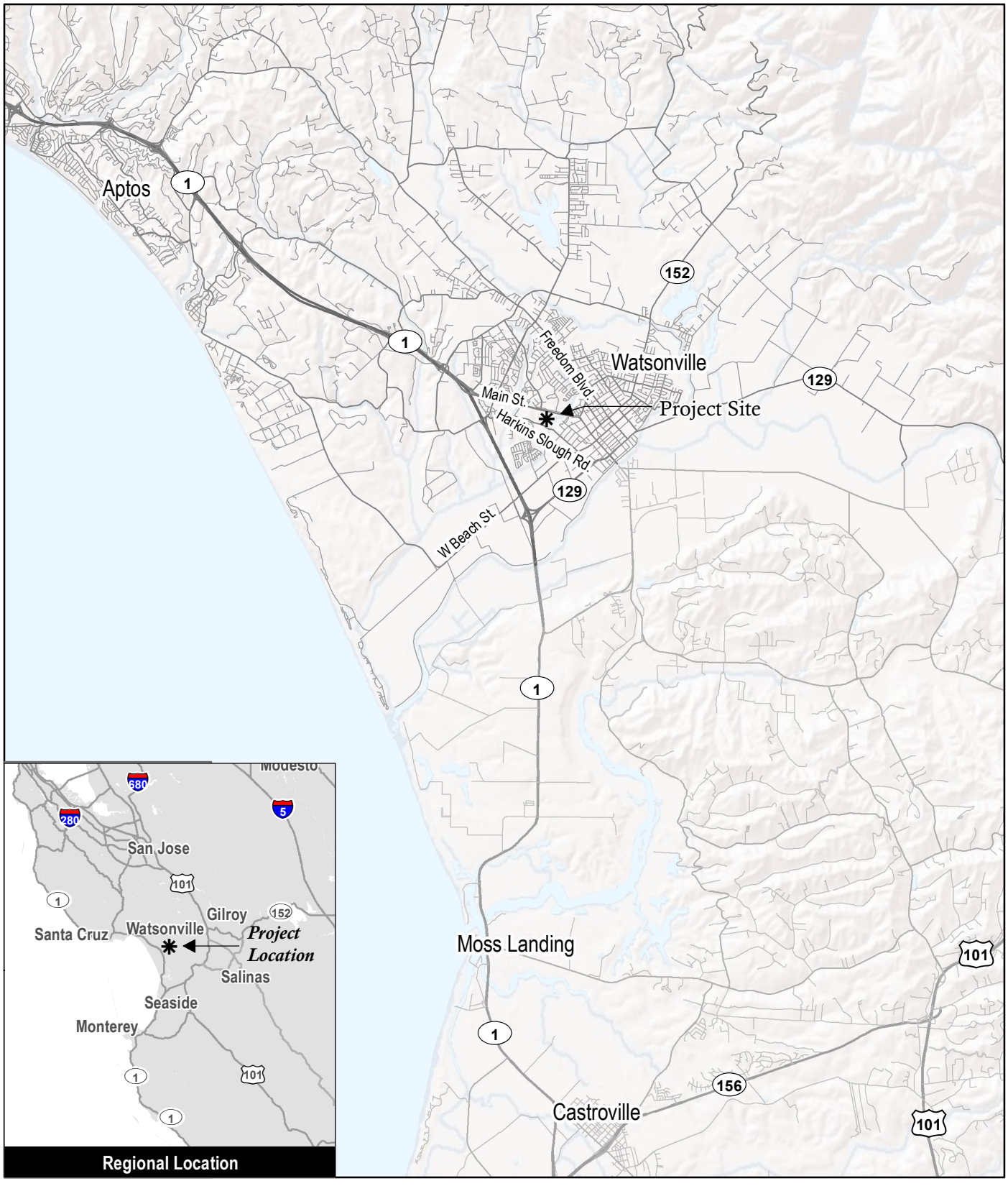

Figure 1

Location Map

Ramsay Park Renaissance Project Initial Study

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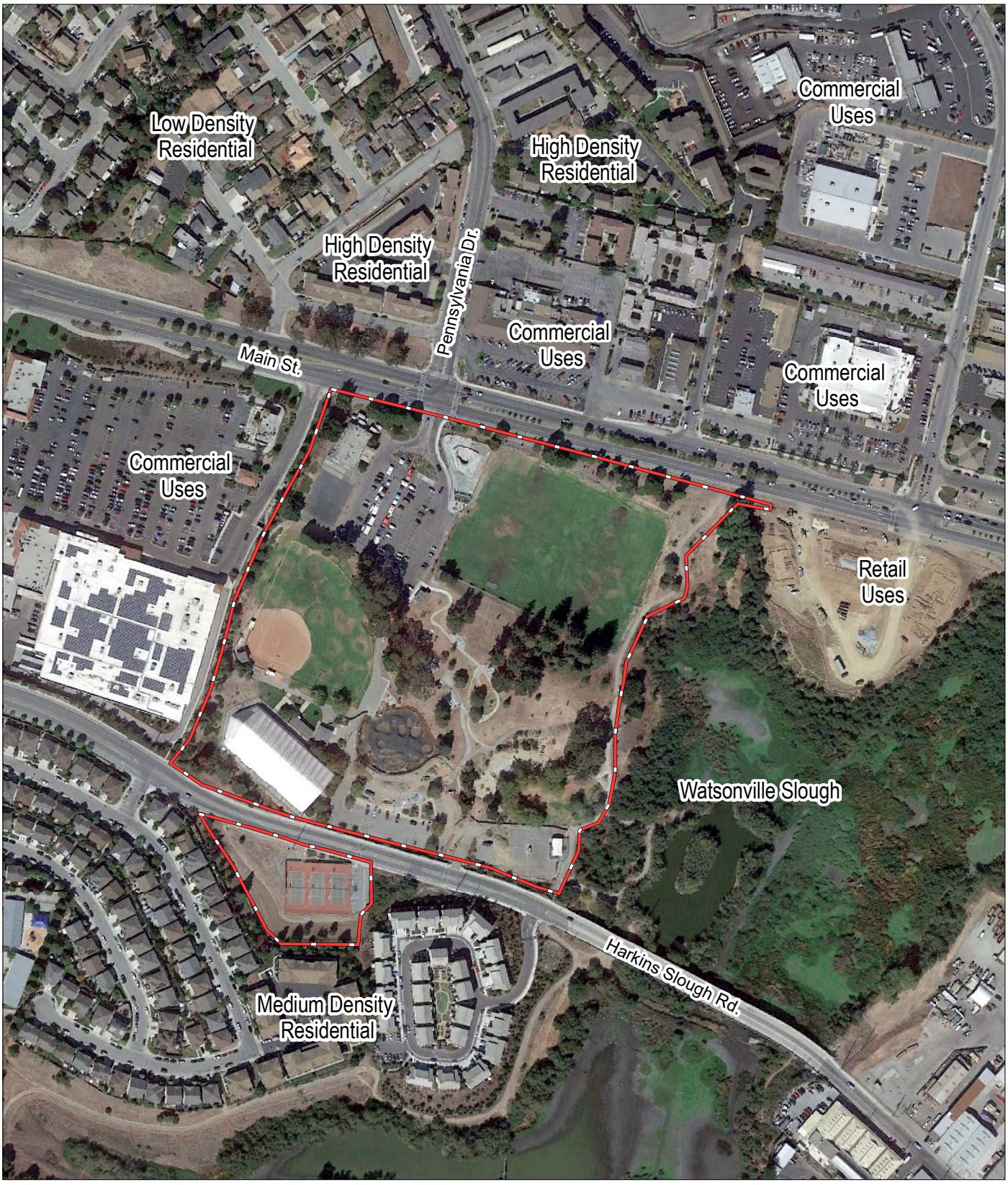

Source: Santa Cruz County GIS 2021, Google Earth 2022

Figure 2

Aerial Photograph

Ramsay Park Renaissance Project Initial Study

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1 Looking south from edge of skatepark across existing soccer fields



2 Looking south from Main Street entrance



3 Looking south across existing basketball courts



Project Site

Source: Google Earth 2021, Santa Cruz County 2021
Photographs: EMC Planning Group 2022



4 Looking southeast from western edge of softball diamond



5 Existing Nature Center



6 Looking northwest from existing trail network towards playgrounds

Figure 3
Site Photographs

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0 180 feet

Source:Verde Design 2022

Figure 4
Illustrative Site Plan

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0 100 feet

Source: Google Earth 2022, Musco Lighting 2021

Figure 5

Ramsay Park Soccer Fields Illumination Summary

Ramsay Park Renaissance Project Initial Study

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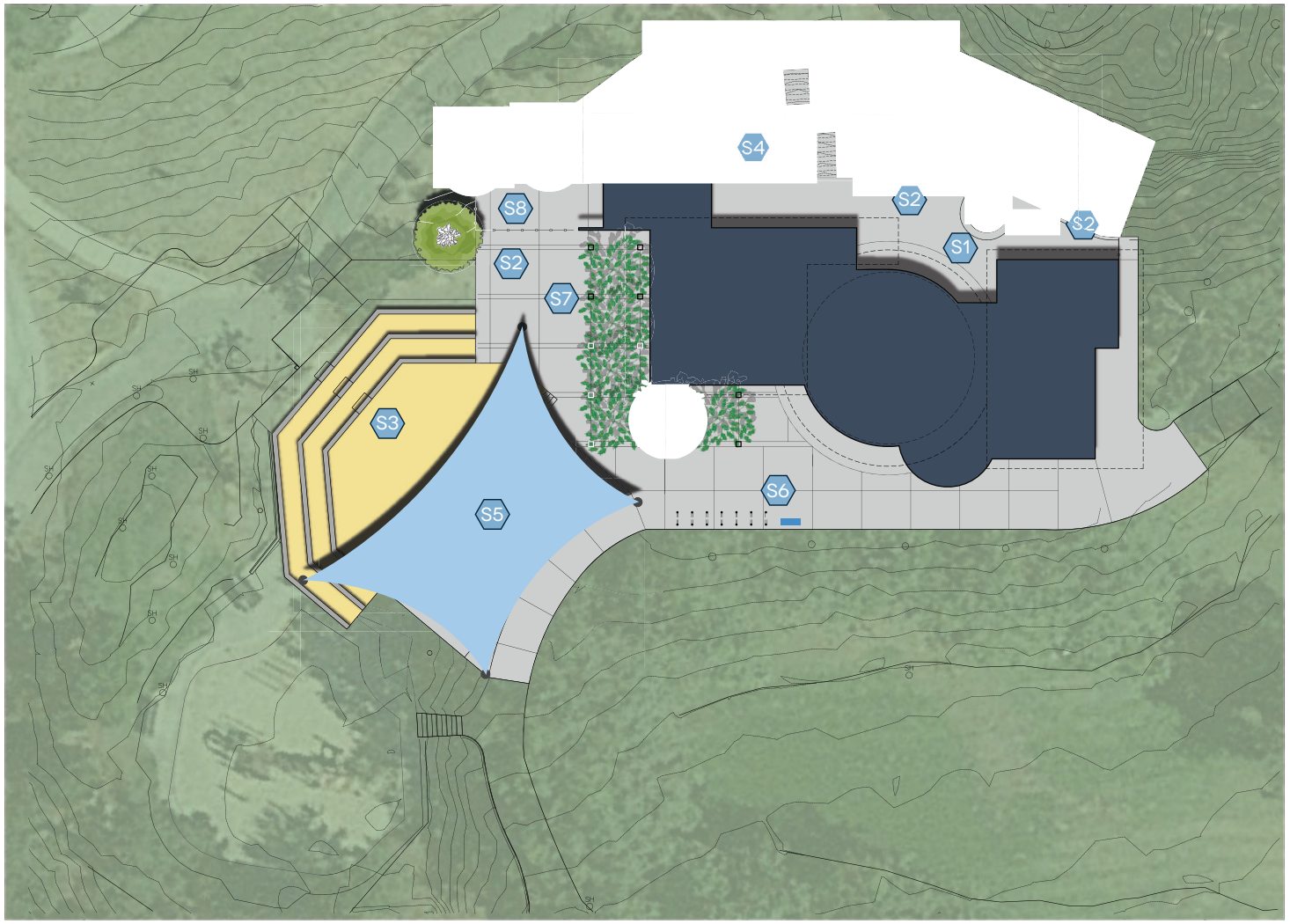

SITE LEGEND

- S1 RAINWATER CATCHMENT TANK
- S2 OUTDOOR DEMONSTRATION SPACE
- S3 OUTDOOR AMPHITHEATRE
- S4 NATIVE DEMONSTRATION GARDEN
- S5 FABRIC SHADE STRUCTURE
- S6 BIKE RACK & DRINKING FOUNTAIN
- S7 ARBOR
- S8 SECURED OUTDOOR STORAGE

Source: Nineteen-Six Architects

Figure 6

Exploration Center Conceptual Design

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0 100 feet

Source: Google Earth 2022, Musco Sport Lighting 2021

Figure 7

Multi-Use Sports Field Illumination Summary

Ramsay Park Renaissance Project Initial Study

E M C

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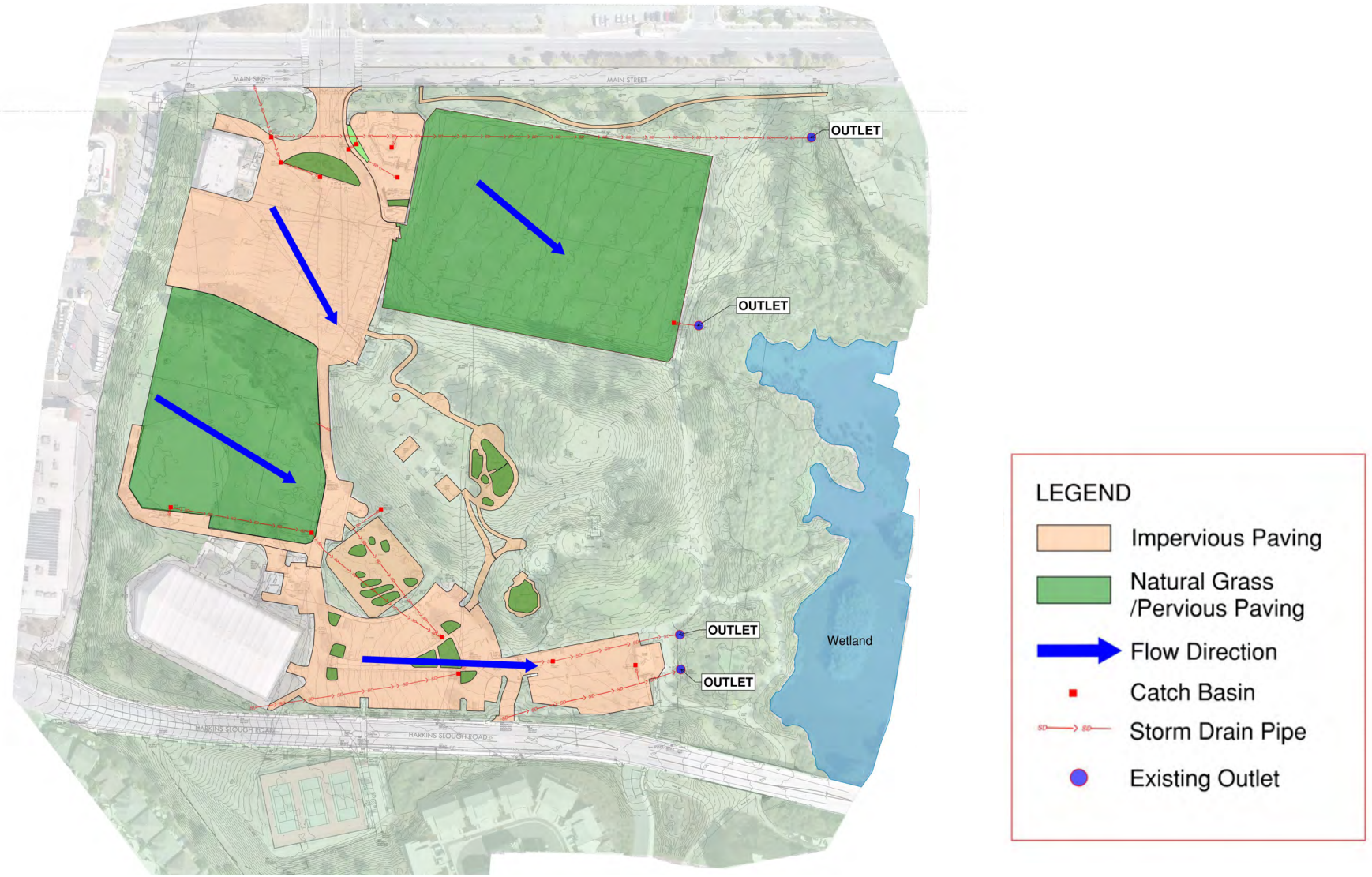

Source: WRP 2022

Figure 8

Existing Site Drainage

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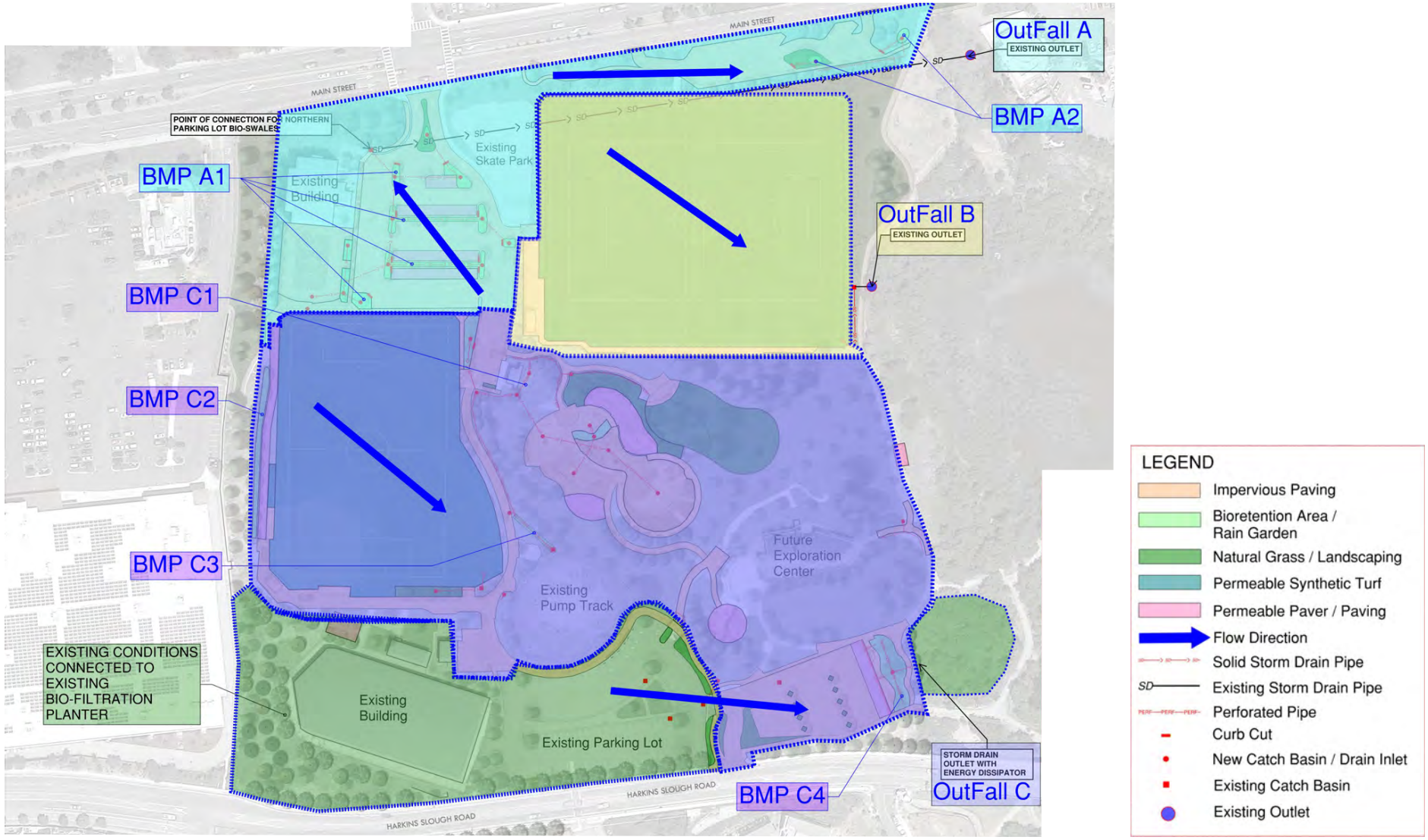

Source: WRP 2022

Figure 9

Proposed Site Drainage and Stormwater Improvements

Ramsay Park Renaissance Project Initial Study

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B. Environmental Factors Potentially Affected

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact" as indicated by the checklist on the following pages.

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

C. DETERMINATION

On the basis of this initial evaluation:

☐ I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.

☒ 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.

☐ I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.

☐ 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.

☐ I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (1) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (2) 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.

_____ _____

Nick Calubaquib Date
Parks & Community Services Director

D. Evaluation of Environmental Impacts

Notes

1. All answers take account of the whole action involved, including off-site as well as on-site, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.
2. Once it has been determined that a particular physical impact may occur, then the checklist answers indicate whether the impact is potentially significant, less than significant with mitigation, or less than significant. "Potentially Significant Impact" is appropriate if there is substantial evidence that an effect may be significant. If there are one or more "Potentially Significant Impact" entries when the determination is made, an EIR is required.
3. "Negative Declaration: Less-Than-Significant Impact with Mitigation Measures 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 section XVII, "Earlier Analyses," may be cross-referenced).
4. Earlier analyses are 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 would identify the following:
    a. "Earlier Analysis Used" identifies and states where such document is available for review.
    b. "Impact Adequately Addressed" identifies which effects from the checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and states whether such effects were addressed by mitigation measures based on the earlier analysis.
    c. "Mitigation Measures"—For effects that are "Less-Than-Significant Impact with Mitigation Measures Incorporated," mitigation measures are described which were incorporated or refined from the earlier document and the extent to which they address site-specific conditions for the project.
5. Checklist references to information sources for potential impacts (e.g., general plans, zoning ordinances, etc.) are incorporated. Each reference to a previously prepared or outside document, where appropriate, includes a reference to the page or pages where the statement is substantiated.
6. "Supporting Information Sources"—A source list is attached, and other sources used or individuals contacted are cited in the discussion.
7. The explanation of each issue identifies:
    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.

1. AESTHETICS

Except as provided in Public Resources Code Section 21099 (Modernization of Transportation Analysis for Transit-Oriented Infill Projects), would the project:

		Potentially Significant Impact	Less-than-Significant Impact with Mitigation Measures Incorporated	Less-Than-Significant Impact	No Impact
a.	Have a substantial adverse effect on a scenic vista? (1, 2, 3, 4, 28, 44, 45)	☐	☐	☐	☒
b.	Substantially damage scenic resources, including but not limited to trees, rock outcroppings, and historic buildings within a state scenic highway? (1, 2, 3, 4, 28, 35, 44, 45)	☐	☐	☐	☒
c.	In non-urbanized areas, 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 points.) If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality? (1, 2, 3, 5, 28, 44, 45)	☐	☐	☐	☒
d.	Create a new source of substantial light or glare, which would adversely affect day or nighttime views in the area? (5, 17, 28, 44, 45, 64, 65, 66, 67)	☐	☒	☐	☐

Comments:

a. The general plan includes designations for scenic routes but does not have designated scenic vistas. Scenic routes within proximity to the project site include Main Street (State Route 1 to Pajaro River) to the north, and Harkins Slough Road to the south (Watsonville 2005, p. 69). The project vicinity does not afford expansive scenic views and does not feature prominent ridges or scenic vistas. Views along Main Street are characterized in the general plan as providing a variety of views of developed commercial shopping centers, Ramsay Park, historic downtown Watsonville, and the Pajaro River. Views from Harkins Slough Road provides views of area sloughs and marshes including Watsonville Slough. There are very limited views of mountain ranges to the east of the city in the vicinity of the project site. These views are partially obstructed by existing development on and around the project site, and by existing vegetation and tree coverage. Since there are no officially designated scenic views in the City of Watsonville, and since existing conditions currently limit public views of scenic resources, the project would not have a substantial adverse effect on a scenic vista, and no impact would occur.

b. State Scenic Highways are designated by the California Department of Transportation (Caltrans) to promote the protection and enhancement of the natural scenic beauty of California's highways and adjacent corridors. Three designated or eligible for designation

State Scenic Highways are within City limits, the closest of which is State Route (SR) 152, which is officially designated as a scenic highway from the Merced-Santa Clara County line, and is eligible for designation from the summit of Mount Madonna County Park to where it intersects with State Route 1 (Caltrans 2022). A portion of this eligible state scenic highway runs along the northern boundary of the project site along Main Street. though no improvements are proposed within the Main Street right-of-way. Therefore, the proposed project would not damage scenic resources within a state scenic highway, because the project is not visible from a designated state scenic highway.

c. As described in (a) and (b) above, the proposed project would not result in a substantial change to any scenic resources or views. While the project site is located adjacent to the Watsonville Slough, the proposed project is located on an urbanized site along a commercial corridor leading from State Route 1 to downtown Watsonville. The proposed project calls for improvements to the existing Ramsay Park site intended to improve the visual and scenic qualities of the existing park and the surrounding area. The proposed project would not change the overall character or use of Ramsay Park as a public park facility. Development of the project would be subject to the goals and policies set forth in the general plan, the municipal code, as well as the City's 2009 *Parks and Recreation Master Plan*, as it relates to scenic quality and aesthetics. According to municipal code section 14-12.400, all new construction, exterior remodeling, additions, or changes in use requiring additional parking, which involve structures used for multi-family residential, commercial, industrial or public purpose, are subject to the City's Design Review process. No building or grading permit shall be issued for a development subject to Design Review until a Design Review Permit has been approved in accordance with municipal code Chapter 14-12 and conditions of approval have been met. Compliance with the requirements and policies set forth in the City's general plan and municipal code would ensure that the proposed project would not conflict with applicable zoning and other regulations governing scenic quality and no impact would occur.

d. **Project Specific Impacts.** The project site is located in an urban area with existing sources of nighttime lighting from roadways, residences, businesses, and recreational and institutional uses. The Main Street commercial corridor is characterized with varying levels of commercial and street lighting, including lighting associated with the large commercial shopping center immediately west of the park. The Harkins Slough Road corridor in the vicinity of the project site is largely residential with some commercial and industrial lighting east of Watsonville Slough. Existing lighting in the park itself is largely made of parking lot lighting at both Main Street and Harkins Slough Road, some security lighting on existing buildings, and existing field lighting associated with the softball field.

As part of the improvements proposed at Ramsay Park, the installation of field lighting is proposed at the two soccer fields and new field lighting at the multi-use field/softball diamond. Field lighting at the Sotomayor Soccer Fields will measure between 70 and 80 feet in height. Fielding lighting at the multi-use field/softball diamond will measure between 60 and 70 feet in height. Field lighting would be utilized from dusk to 11:00 P.M. to safely accommodate nighttime games and practices scheduled for both the soccer

fields and the multi-use field. All proposed field lighting would provide sufficient levels of lighting intensity to adequately illuminate play fields though would be concentrated and shielded to reduce light spill and glare to the extent feasible. As demonstrated in Figure 10, Project Site Illumination Summary, lighting levels for all field lighting, in terms of footcandles, would be most concentrated towards the center of play fields and would slowly dissipate further out so as not to create excess light spillover and glare impacts to adjacent sensitive uses including residential uses to the north and south, the public-right-way (Main Street and Harkins Slough Road) to the north and south, and the sensitive wetland habitat within Watsonville Slough to the east. Placement of proposed field lighting at the soccer fields and the multi-use field would not introduce lighting that is inconsistent with either current lighting at the park (particularly existing field lighting the softball field) or lighting from adjacent commercial uses. A complete set of photometric and lighting plans as prepared by American Consulting Engineers Electrical Inc. and Musco Sports Lighting are included as Appendix B.

Land uses potentially sensitive to new sources of night time lighting from Ramsay Park include residential uses to the north and south of the park. A high-density residential development north of Main Street is located approximately 500 feet from where proposed field lighting would be installed at the soccer fields. A medium density residential neighborhood is located approximately 525 feet south of the proposed field lighting locations at the proposed multi-use sports field. Refer to Figure 2, Aerial Photograph, for locations of potentially sensitive residential uses in proximity to the park.

According to city code section 14-16.802, lighted parks facilities and playfields are subject to subject to the City's Design Review which requires that a project minimize visual impacts including lighting impacts to adjacent properties. The proposed project includes a photometric plan (see Appendix B) prepared by Musco Sports Lighting that the City will review to ensure it demonstrates compliance with city code lighting requirements to decrease the impact that proposed lighting on the project site would have on nearby properties and sensitive uses. Proposed field light fixtures at the two sports fields are projected to emit between 15,939 and 160,000 lumens (refer to Musco Sports Lighting plan, page 1 and 2, included in Appendix B for additional lighting fixture details). Lumens are a measure of the total amount of visible light (to the human eye) from a lamp or light source. The higher the lumen rating the "brighter" the lamp will appear (Integral LED 2022). The resulting lighting spillover potential is approximately 25 yards extending from the areas of direct light (the soccer fields and the multi-use field). With compliance with City lighting requirements, light and glare impacts of the proposed project would be less than significant.

Cumulative Impacts. Views of the night sky in the vicinity are compromised due to the accumulation of existing light emitters that direct light into the night sky, a typical effect in an urbanized environment. This creates "sky glow" or "light pollution."

The cumulative impact of adding the field lighting at the Sotomayor Soccer Fields, the light poles which would measure between 70 and 80 feet in height, would add to the cumulative night time lighting (sky glow and light pollution) in the area, which may be

considered significant. In addition, as previously noted, field lighting would only occur between the hours of from dusk to 11:00 P.M. and would not be permitted to remain on after this time. Implementation of the following mitigation measure would ensure the project's contribution to cumulative lighting impacts would be less than significant.

Mitigation Measure

AES-1 Prior to issuance of building permits for any new field lighting at Ramsay Park, the City of Watsonville Public Works Department shall obtain Dark-Sky Certification with the International Dark-Sky Association (IDA) for all proposed field lighting designs to ensure sky glow and light pollution is minimized to the extent possible. Possible lighting controls, as recommended by IDA, could include the following:

a. Automatic and/or remote control system via smartphone apps, or direct remote communication to the company facility responsible for handling the lighting controls, to enforce shut-off at locally established curfew time, not to be later than 11:00 PM (2300 hours).

b. On-site manual and/or remote control system shall also be provided to allow for the lights to be turned on or off at will (before curfew) to assure that only active sports fields are lighted.

c. Provide readily accessible controls to implement uniform and variable adaptive illumination levels for different task lighting needs on field, e.g. class of play, competition athletics, band practice, striping, mowing, sports practice, etc. Adaptive dimming shall be possible across the range of 25% to 100% of full illumination.

d. A formal policy defining the appropriate level of illumination necessary for the specific activities and curfew times must be established and enforced.

Public Works staff shall submit all proposed sports field lighting designs utilizing the "IDA Community Friendly Outdoor Sports Lighting Program Application" to complete IDA's Phase I – Design Analysis review process. Once project improvements are installed, the City's Public Works staff shall submit for IDA's Phase II – Field Verification.

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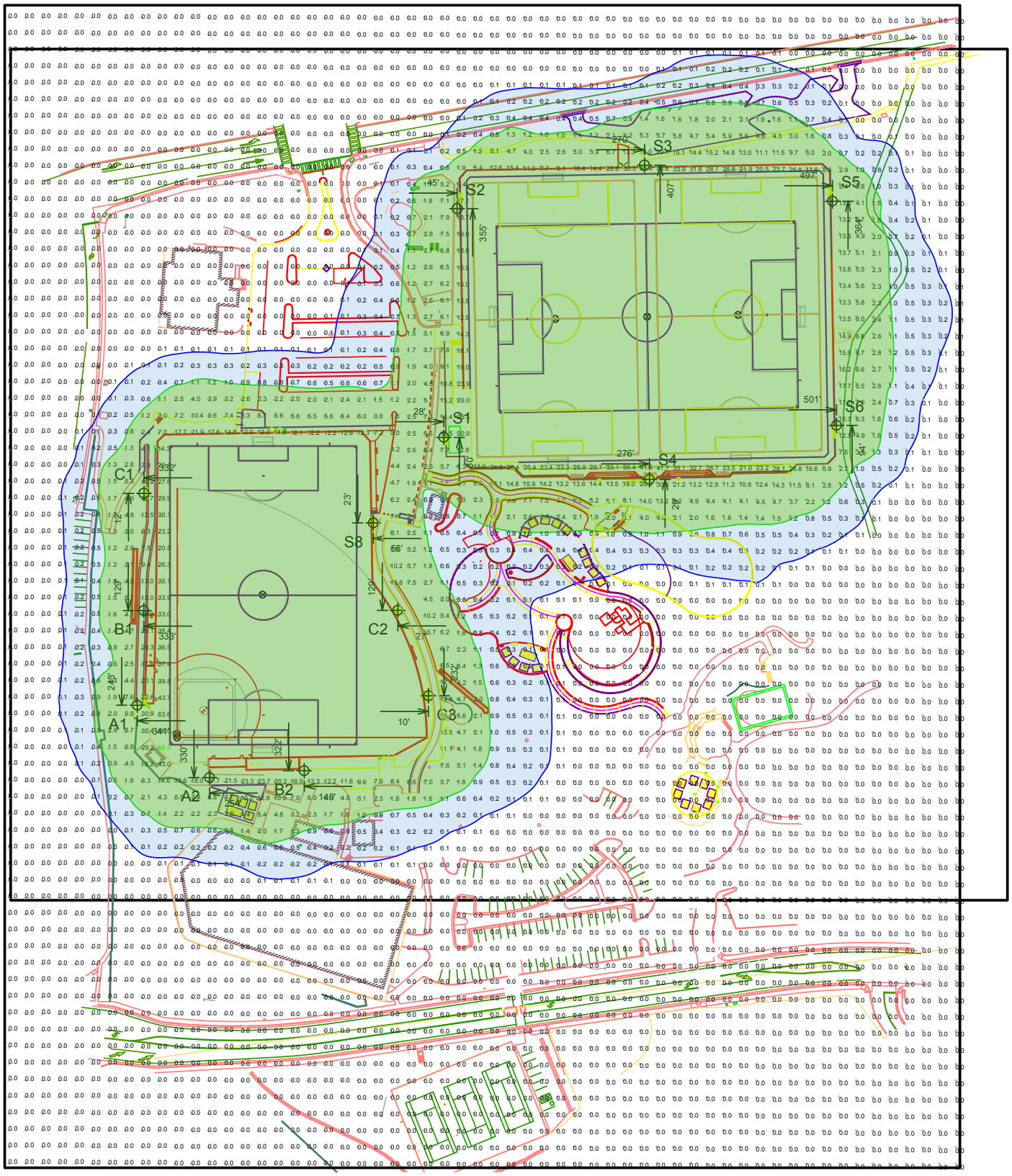

Figure 10

Project Site Illumination Summary

Ramsay Park Renaissance Project Initial Study

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2. AGRICULTURE AND FOREST RESOURCES

In determining whether impacts on agricultural resources are significant environmental effects and in assessing impacts on agriculture and farmland, 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 Impact with Mitigation Measures 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? (1, 2, 6, 7)	☐	☐	☐	☒
b.	Conflict with existing zoning for agricultural use, or a Williamson Act contract? (1, 2, 5, 6, 8)	☐	☐	☐	☒
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))? (1, 2, 5, 6)	☐	☐	☐	☒
d.	Result in the loss of forest land or conversion of forest land to non-forest use? (1, 2, 5, 6)	☐	☐	☐	☒
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 conversion of forest land to non-forest use? (1, 2, 5, 6)	☐	☐	☐	☒

Comments:

a. The project site is located on land that is classified by the Department of Conservation as "Urban and Built-Up Land" (DOC 2020). Therefore, the proposed project would not convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance to a non-agricultural use.

b. The project site is zoned as "PF: Public Facilities" and does not have a current Williamson Act contract associated with the property. Therefore, the proposed project would not conflict with existing zoning for agricultural use, or a Williamson Act contract.

c-e. The project site is not zoned for forest land or timberland, and there are no forest or timber resources located on the project site. Thus, there would be no loss of forest land or conversion of forest land to non-forest use. The proposed facilities would not result in any change to the existing environment that could result in the conversion of farmland to non-agricultural use. Because the proposed project would not conflict with any existing forest land or timberland production zoning, and no changes associated with the project are proposed that would result in the conversion of existing farmland, forest land, or timber lands, no impact would occur.

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 Impact with Mitigation Measures Incorporated	Less-Than-Significant Impact	No Impact
a.	Conflict with or obstruct implementation of the applicable air quality plan? (39)	☐	☐	☐	☒
b.	Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or state ambient air quality standard? (28, 38)	☐	☒	☐	☐
c.	Expose sensitive receptors to substantial pollutant concentrations? (17, 28, 38)	☐	☒	☐	☐
d.	Result in other emissions, such as those leading to odors adversely affecting a substantial number of people? (38)	☐	☐	☒	☐

Comments:

a. The City of Watsonville is within the North Central Coast Air Basin (air basin), which is under the jurisdiction of the Monterey Bay Air Resources District (air district). Regional air districts must prepare air quality plans specifying how state air quality standards will be met. The air district adopted the 2012-2015 Air Quality Management Plan (air quality management plan) for the Monterey Bay Region in 2017. The 2017 plan is an update to elements included in the 2012 air quality management plan based on a review of the time period 2012-2015. It shows that the region continues to make progress toward meeting the State ozone standard. The air district has established a consistency determination procedure tied to population growth – a project that does not result in an increase in population beyond that projected by the Association of Monterey Bay Area Governments is considered not to conflict with the air quality management plan. The proposed project consists of improvements to an existing public park that would not result in population growth, so it would not exceed the population projections upon which the air quality management emissions forecasts are based. Therefore, the proposed project would not conflict with or obstruct the air quality management plan.

b. The six most common and widespread air pollutants of concern, or "criteria pollutants," are ground-level ozone, nitrogen dioxide, particulate matter, carbon monoxide, sulfur dioxide, and lead. In addition, reactive organic gases are a key contributor to the criteria air pollutants because they react with other substances to form ground-level ozone. Health effects from prolonged exposures to criteria air pollutants include asthma, bronchitis, chest pain, coughing, and heart diseases.

The air district is the agency with the primary responsibility for assuring that national and state ambient air quality standards are attained and maintained in the air basin. The air district is responsible for monitoring air quality in the air basin, which is designated under state criteria as a nonattainment area for ozone and suspended particulate matter (PM_{10}). Under federal criteria, the air basin is at attainment (8-hour standard) for ozone and particulates. The air district has developed criteria pollutant emissions thresholds which are used to determine whether or not a proposed project would violate an air quality standard or contribute to an existing violation during operations and/or construction. The air district thresholds of significance are contained in the air district's CEQA Air Quality Guidelines (air district CEQA Guidelines) (2008).

Operational Emissions

Project operations would generate criteria air pollutants, including VOC, NO_X, and particulate matter from energy demand, loading dock activities, automobile and delivery truck exhaust. According to the air district CEQA Guidelines Table 5-3, a project would have a significant operational air quality impact if it would result in any of the following circumstances:

- Emit 137 pounds per day or more of volatile organic compounds (VOC) or nitrogen oxides (NOx);
- Emit 550 pounds per day or more of carbon monoxide (CO);
- Emit 82 pounds per day or more of suspended particulate matter (PM_{10}) on-site and from vehicle travel on unpaved roads off-site; or
- Emit 150 pounds per day or more of sulfur oxides (SOx).

The proposed project improves an existing park and would not result in an increase in vehicle trips. The proposed 2,361 square foot Exploration Center building and the new 1,410 square foot maintenance building would be a new source of operational (non-vehicle trip) emissions but would not generate substantial criteria pollutant emissions to the extent that the thresholds above would be exceeded. Table 5-4 of the air district CEQA Guidelines presents land use screening thresholds based on varying levels of development intensity of various land uses that would be expected to generate emissions that exceed the standards listed above. For comparison purposes, the screening levels indicate that emissions generated by fewer than 810 single-family residential dwellings, or a supermarket of less than 69,000 square feet, or even an office park of less than 670,000 square feet would typically be expected to fall below the air district's thresholds. The proposed Exploration Center is a much less intensive source of emissions than the examples listed in air district's screening threshold table. Therefore, emissions volumes associated with long-term operations of the proposed 2,361 square foot Exploration Center building and 1,410 square foot maintenance building would not result in a cumulatively considerable net increase of ozone precursors, for which the project region is nonattainment under the federal ambient air quality standard.

Construction Emissions

Construction activities are temporary impacts that, depending on the size and type of project, commonly occur in limited time periods. Construction emissions have the potential to significantly impact local air quality, or pose localized health risks. Construction emissions include equipment exhaust and fugitive dust emissions generated during grading, and ozone precursor emissions generated during the application of architectural coatings and asphalt paving material. The air district CEQA guidelines report that construction projects using typical construction equipment such as dump trucks, scrappers, bulldozers, compactors and front-end loaders that temporarily emit ozone precursors such as volatile organic compounds (VOC) or oxides of nitrogen (NOx)], are accommodated in the emission inventories of State- and federally-required air plans and would not have a significant impact on the attainment and maintenance of ozone thresholds. However, air district CEQA Guidelines Table 5-2, Construction Activity with Potentially Significant Impacts, identifies the level of construction activity that could result in significant temporary fugitive dust impacts if not mitigated:

- Construction site with minimal earthmoving 8.1 acres per day.
- Construction site with earthmoving (grading, excavation) 2.2 acres per day.

Construction projects that fall below the screening level thresholds shown above are assumed to be below the 82 lb/day threshold of significance, while projects with activity levels higher than those above may have a significant impact on air quality due to fugitive dust emissions.

The proposed project would include demolition and replacement of existing pavement, the soccer and baseball fields turf, pathways, a playground, and related utility infrastructure, and the construction of one new single-story building and new bleachers for the soccer field. Unlike new development of a vacant site, all of these activities do not include substantial grading and excavation; existing improvements would be upgraded and the proposed one-story Exploration Center building, maintenance building, and soccer field bleachers would not require substantial excavations for footings and foundations. However, the extent of improvements across the 26-acre site could exceed the air district's screening threshold of 8.1 acres of disturbance per day at various times during construction. As a result, particulate matter emissions in the form of fugitive dust and engine equipment exhaust generated by construction activities on the site, while temporary, could potentially exceed the air district's emission thresholds.

With the air basin in non-attainment for the state ambient air quality standard for PM_{10}, fugitive dust emissions from grading and construction activity on greater than 8.1 acres per day would be a significant impact. The air district recommends the use of best management practices during construction to reduce construction-related fugitive dust emissions by up to 50 percent (MBARD 2008), which would reduce fugitive dust impacts to less than significant. Implementation of the following mitigation measure ensures that the proposed project construction dust emissions would be reduced to a less-than-significant level.

Mitigation Measure

AQ-1 To reduce dust emissions from demolition, grading, and construction activities on the project site, the City of Watsonville will prepare a Construction Management Plan and implement it during construction activities. The plan will include the following measures:

a. The following language shall be included in all bid documents, grading and construction plans prior to the issuance of a building permit, and will be implemented by the project contractor during construction:

1. All exposed surfaces (e.g., parking areas, staging area, soil piles, graded areas, and unpaved access roads) will be watered with non-potable water twice per day, at a minimum.

2. All haul trucks transporting soil, sand, or other loose material off-site will be covered.

3. All vehicle speeds on unpaved roads will be limited to 15 miles per hour.

4. All roadways, driveways, and sidewalks to be paved will be completed as soon as possible. Building pads will be laid as soon as possible after grading unless seeding or soil binders are used.

5. Idling times will be minimized either by shutting equipment off when not in use or reducing the maximum idling time to 5 minutes (as required by the California airborne toxics control measure Title 13, Section 2485 of California Code of Regulations [CCR]). Clear signage shall be provided for construction workers at all access points.

6. All construction equipment will be maintained and properly tuned in accordance with manufacturer's specifications. All equipment shall be checked by a certified mechanic and determined to be running in proper condition prior to operation.

7. Stage construction equipment and materials as far away from residential land uses to the extent feasible.

Implementation of Mitigation Measure AQ-1, would reduce the impacts associated with fugitive dust emissions to less than significant.

c. The proposed project has the potential to exposure sensitive receptors to localized health risks associated with toxic air contaminant (TAC) emissions from construction equipment exhaust. TACs are pollutants that may be expected to result in an increase in mortality or serious illness or may pose a present or potential hazard to human health. Health effects

include cancer, birth defects, neurological damage, damage to the body's natural defense system, and diseases that lead to death. TACs are found in ambient air, especially in urban areas, and are caused by industry, agriculture, fuels combustion, and commercial operations (e.g., dry cleaners). Diesel exhaust is the predominant TAC in urban air and is estimated to represent about two-thirds of the cancer risk from TACs. Diesel particulate matter (DPM) is the primary TAC of concern within diesel exhaust. The primary community risk impact issues associated with construction exhaust emissions are cancer risk (DPM exposures) and exposure to $PM_{2.5}$.

Sensitive receptors are generally defined as any residence; education facilities such as preschools and kindergarten through grade twelve (K-12) schools; daycare centers; retirement homes; and health care facilities such as hospitals or nursing homes. The nearest sensitive receptors to the project site are residential uses north of Longview Drive, approximately 200 feet north of the project site, and homes along Vista Point Drive south of the project site and across Harkins Slough Road. The nearest homes south of the project site are located about 400 feet from the existing baseball field in the park. The nearest school to the project site is the Landmark Elementary School located in the same residential neighborhood, but at a greater distance (about 780 feet) and to the southwest of the project site.

The proposed project has the potential to expose receptors to construction TAC emissions that can increase cancer risks and affect human health. A cancer risk greater than one incident per 100,000 population (10 cases per million) would be considered significant. Emissions from engines used in construction, which are primarily diesel, are subject to control under regulations adopted by both California Air Resources Board (CARB) and U.S. EPA. U.S. EPA promulgated new emission standards for off-road engines in 1998, with CARB adopting parallel standards in 2000. In 2004, Tier 4 emission standards were adopted and were phased in for new engines between 2011 and 2014. In 2007 CARB adopted an off-road equipment regulation to accelerate reductions of NOx and diesel PM from existing off-road engines. Beginning in 2012 and through 2023, the off-road regulation requires operators of older equipment to either install abatement devices, upgrade to Tier 3 and eventually Tier 4 engines, or to retire older equipment.

Although the project's construction emissions would be short term in nature and varied across the site, as a construction activity, the proposed project could result in limited localized emissions of diesel exhaust to which the sensitive receptors to the north and south could be exposed. However, the residential uses to the north are not located downwind from the site and, existing development on and between it and sensitive receptors to the south creates a barrier to airborne particulates. In addition, due to the presence of prevailing winds from the north and northwest, there is little likelihood of project emissions to drift to the residential neighborhood north of the site, and the residential neighborhood and school to the south are shielded from construction emissions by the presence of existing buildings on the project site and other development between their locations relative to the project site. Implementation of the following mitigation measures ensures that the increased health risks from potential exposures to construction TAC emissions exposures are less than significant.

Mitigation Measure

AQ-2 The City of Watsonville will include the following measures in its Construction Management Plan identified in Mitigation Measure AQ-1:

a. Heavy-duty diesel vehicles will have 2010 or newer model year engines, in compliance with the California Air Resources Board's Truck and Bus Regulation, and will not be staged within 500 feet of occupied residences.

b. Idling of construction equipment and heavy-duty diesel trucks will be avoided where feasible, and if idling is necessary, it will not exceed three minutes.

c. All construction equipment will be maintained and properly tuned in accordance with manufacturer's specifications and will be checked by a certified visible emissions evaluator.

d. All non-road diesel construction equipment will, at a minimum, meet Tier 3 emission standards listed in the Code of Federal Regulations Title 40, Part 89, Subpart B, §89.112. Further, where feasible, construction equipment will use alternative fuels such as compressed natural gas, propane, electricity or biodiesel.

Implementation of mitigation measures AQ-2 in addition to mitigation measure AQ-1 would reduce the potential increased health risks from exposures to temporary construction emissions to less than significant.

d. Projects that emit pollutants associated with objectionable odors in substantial concentrations could result in significant impacts if odors would cause injury, nuisance, or annoyance to a considerable number of persons or would endanger the comfort, health, or safety of the public. Land uses creating objectionable odors typically include heavy industrial and some agricultural practices. The proposed project does not include such uses, although it is possible that equipment exhaust odors could be generated during construction; however, these would be short lived and less than significant.

4. BIOLOGICAL RESOURCES

Would the project:

		Potentially Significant Impact	Less-than-Significant Impact with Mitigation Measures 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, regulations, or by the California Department of Fish and Wildlife or US Fish and Wildlife Service? (52,53,54,62)	☐	☒	☐	☐
b.	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 Wildlife or US Fish and Wildlife Service? (53.54)	☐	☒	☐	☐
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, filing, hydrological interruption, or other means? (53,56)	☐	☒	☐	☐
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? (58,59)	☐	☐	☒	☐
e.	Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance? (1,2,60,61)	☐	☐	☒	☐
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? (1,2)	☐	☐	☐	☒

Comments:

This section is based on a reconnaissance-level biological field survey on January 7, 2022, conducted by EMC Planning Group biologist Patrick Furtado, M.S., to document existing plant communities/wildlife habitats and evaluate the potential for special-status species to occur on the project site. Biological resources were documented in field notes, including species observed, dominant plant communities, significant wildlife habitat characteristics, and riparian and wetland habitat. Qualitative estimations of plant cover, structure, and spatial changes in species composition were used to determine plant communities and wildlife habitats. Habitat quality and disturbance levels were also described.

Prior to conducting the survey, Mr. Furtado reviewed site plans, aerial photographs, natural resource database mapping and reports, and other relevant scientific literature. This included searching the U.S. Fish and Wildlife Service (USFWS) Endangered Species Database (USFWS 2022a), California Department of Fish and Wildlife (CDFW) California Natural Diversity Database (CDFW 2022), and California Native Plant Society (CNPS) Inventory of Rare and Endangered Plants (CNPS 2022) to identify special-status plants, wildlife, and habitats known to occur in the vicinity of the project site. Special-status species in this report are those listed as Endangered, Threatened, or Rare, or as Candidates for listing by the USFWS and/or CDFW; as Species of Special Concern or Fully Protected species by the CDFW; or as Rare Plant Rank 1B or 2B species by the CNPS. A review was also conducted of the National Wetlands Inventory (USFWS 2022b) to identify potential jurisdictional aquatic features on or adjacent to the project site. Mr. Furtado also reviewed the biological resources section of the initial study prepared in 2019 for the adjacent 975-1075 Main Street project.

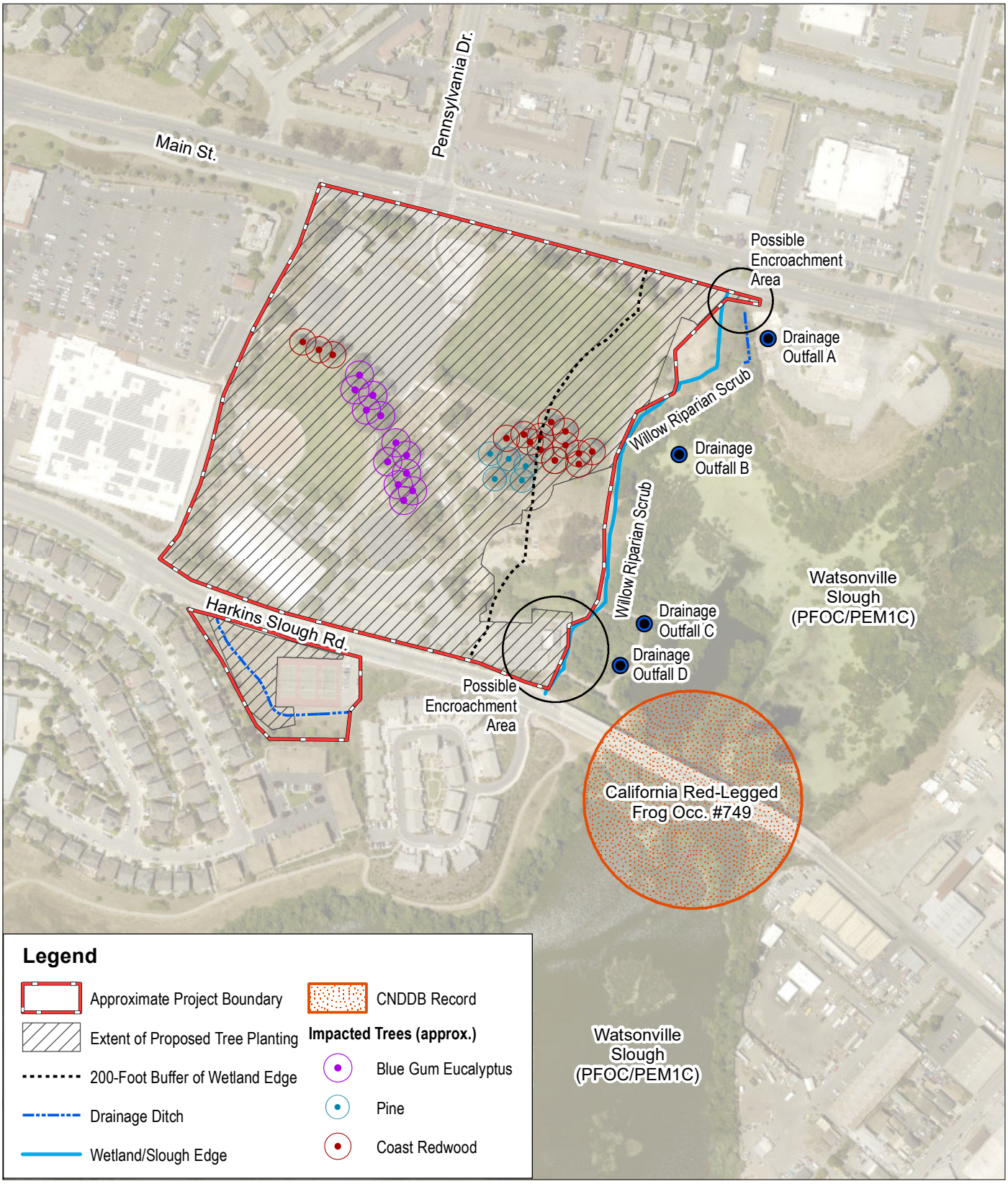
The project site is located in the City of Watsonville, Santa Cruz County, California, on the Watsonville West United States Geological Survey (USGS) quadrangle map, with approximate elevations of 18 feet above sea level at the southern end of the park and 27 feet above sea level at the northern end. The topography is flat in the southern and northern sections of the park with gentle hillslopes in the middle section. Surrounding land uses include commercial development to the west and north, residential development to the south, and the Watsonville Slough to the east.

Two habitat types were identified during the reconnaissance-level biological survey of the project site: ornamental park vegetation and willow riparian scrub. These habitats are described in detail below. Figure 11, Habitat Map, shows the plant and wildlife habitats present within the project site.

Ornamental Park Vegetation - Lawns, Shrubs, and Trees

Much of the park consists of large, open sports fields (baseball and soccer) with green, manicured lawns. Planted mature trees grow in clusters and include coast redwood (*Sequoia sempervirens*), western red cedar (*Thuja plicata*), blue gum eucalyptus (*Eucalyptus globulus*), and Monterey pine (*Pinus radiata*). Shrub plantings include rosemary (*Rosmarinus officinalis*), cotoneaster (*Cotoneaster* sp.), pride-of-Madeira (*Echium candicans*), tea tree (*Leptospermum scoparium*), and toyon (*Heteromeles arbutifolia*).

Disturbed areas on the project site are dominated by ruderal (weedy) vegetation and non-native grasses. Invasive plant species observed in these areas include pampas grass (*Cortaderia jubata*) and blackwood acacia (*Acacia melanoxylon*). Non-native grasses growing in these areas include foxtail barley (*Hordeum murinum*), ripgut brome (*Bromus diandrus*), and wild oats (*Avena* spp.).



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Source: ESRI 2022, Santa Cruz County GIS 2021, Verde Design 2022, CDFW 2022

National Wetland Inventory Designations:
PFOC: Freshwater Forested/Shrub Wetland
PEM1C: Freshwater Emergent Wetland

Figure 11
Habitat Map

Ramsay Park Renaissance Project Initial Study

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Common mammal species that use this habitat type include raccoon (*Procyon lotor*), striped skunk (*Mephitis mephitis*), Virginia opossum (*Didelphis virginiana*), and California ground squirrel (*Spermophilus beecheyi*); common reptiles may include western fence lizard (*Sceloporus occidentalis*) and common garter snake (*Thamnophis sirtalis*). Species of small rodents including mice (*Mus musculus*, *Reithrodontomys megalotis*, and *Peromyscus maniculatus*) and California vole (*Microtus californicus*) likely also occur. The tall, mature trees on the project site (see Table 2, below) provide roosting and nesting habitat for raptor species such as red-tailed hawk (*Buteo jamaicensis*) and red-shouldered hawk (*Buteo lineatus*).

Willow Riparian Scrub

Willow riparian scrub habitat is found on the eastern edge of the project site along Watsonville Slough. This habitat type is dominated by thickets of arroyo willow (*Salix lasiolepis*). Broadleaf cattail (*Typha latifolia*) is also dominant among the willow. Willow riparian scrub also hosts native herbs and emergent vegetation, as well as various nonnative ivies, grasses, blackberry, and other plants. Riparian scrub provides foraging habitat for birds and small mammals, and habitat for small reptiles and amphibians.

a. **Special-Status Species.** A search of the CDFW's *California Natural Diversity Database* (CNDDB) was conducted for the target USGS quadrangle, Watsonville West, and seven surrounding quadrangles: Watsonville East, Mt. Madonna, Prunedale, Laurel, Loma Prieta, Moss Landing, and Soquel, to generate a list of potentially occurring special-status species in the project vicinity (CDFW 2022). Records of occurrence for special-status plants were also reviewed for all eight USGS quadrangles in the CNPS Inventory of Rare and Endangered Plants (CNPS 2022). A USFWS Endangered Species Program threatened and endangered species list was generated for Santa Cruz County (USFWS 2022a). Appendix C, Special-Status Species in the Project Vicinity, presents tables with CNDDB results, which lists special-status species documented within the project vicinity, their listing status and suitable habitat description, and their potential to occur on the site. Figure 12, Special-Status Species Known to Occur in the Project Vicinity, presents a map of CNDDB results.

Special-Status Plant Species. Of the special-status plant species known to occur in the project vicinity identified in Appendix C, the following species have the potential to occur on the project site: Santa Cruz tarplant (*Holocarpha macradenia*) and (Congdon's tarplant (*Centromadia parryi* spp. *congdonii*).

Santa Cruz tarplant. Santa Cruz tarplant is federally listed as threatened and state listed as endangered. It is an annual herb that can grow between ten to fifty centimeters tall and typically blooms June to October, with peak blooming from late summer to early fall. Santa Cruz tarplant is typically found in coastal prairie, coastal scrub, or valley and foothill grassland habitats. Microhabitat includes light, sandy soils or sandy clay, often with non-native species. The closest documented occurrence was recorded in 2007 approximately 1,200 feet southwest of the project site (Occurrence No. 34, CDFW 2022). This special-status plant has potential to occur in non-native grassland and unmown open areas.

Project development could result in impacts to this species during construction. Loss or harm to Santa Cruz tarplant is considered a significant adverse impact.

Implementation of Mitigation Measure BIO-1 would reduce potentially significant impacts to Santa Cruz tarplant to a less than significant level.

Congdon's tarplant. Congdon's tarplant is a low-growing annual herb that typically blooms May to October, with peak blooming from late summer to early fall. It is found on a range of substrates and is tolerant of disturbed and ruderal (weedy) areas, often occurring in patches of non-native grassland. The closest documented occurrence was recorded in 1998 approximately 1.8 miles northeast of the project site (Occurrence No. 15, CDFW 2022). This special-status plant has potential to occur in non-native grassland and open areas. Project development could result in impacts to this species during construction. Loss or harm to Congdon's tarplant is considered a significant adverse impact. Implementation of Mitigation Measure BIO-1 would reduce potentially significant impacts to Congdon's tarplant to a less than significant level.

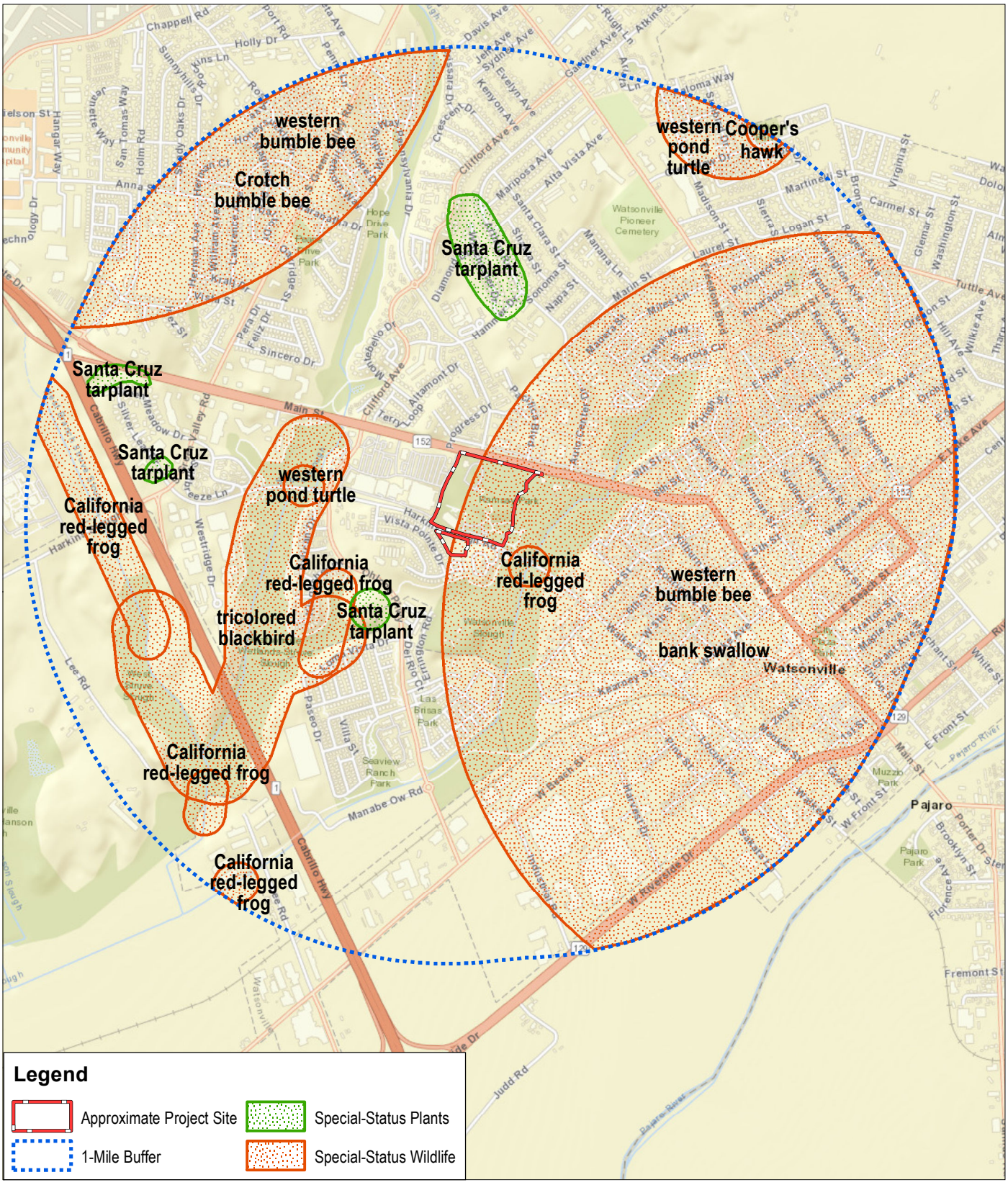
Mitigation Measure

BIO-1 The blooming season prior to ground disturbance (May/June to October), a biologist qualified in botany shall conduct a focused survey for Santa Cruz tarplant and Congdon's tarplant in accordance with current CDFW and CNPS rare plant survey protocols (CDFW 2018 and CNPS 2001). The survey shall be conducted in the areas shown in Figure 11, Habitat Map, and shall occur during the peak blooming period for these species to determine their presence or absence (typically August through September). If possible, known reference populations of the target species in the project vicinity shall first be visited to verify that the species is observable, and the focused survey shall be conducted within two weeks of observing the reference population in full bloom.

If neither species is found or if either species is observed and impacts can be completely avoided, then no further mitigation would be required. The biologist shall prepare a brief report documenting the results of the survey for submittal to the City of Watsonville prior to ground disturbance.

If the focused surveys identify Congdon's tarplant within the project site boundary and it would be affected by the proposed project, then appropriate mitigation shall be developed by the biologist and implemented by the City of Watsonville prior to issuance of a grading permit. Measures may include, but are not limited to:

a. A qualified biologist shall identify an on-site or off-site mitigation area suitable for restoration of habitat and seed transplantation for this annual herb. The City of Watsonville shall be responsible for the placement of a conservation easement over the mitigation area and the provision of funds to ensure the restoration of the mitigation area and its preservation in perpetuity.



0 1,800 feet

Source: Santa Cruz County GIS 2021, ESRI 2022, CDFW 2022

Figure 12

Special-Status Species Known to Occur in the Project Vicinity

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b. Prior to approval of a grading permit, a qualified biologist or native plant specialist shall perform seed collection from all special-status plants located within the impact areas and implement seed installation at the mitigation area at the optimal time. Additionally, topsoil from the special-status species occurrence area(s) shall be salvaged (where practical) for use in the mitigation area.

c. A maintenance and monitoring program shall be developed by a qualified biologist and established for a minimum of five years after mitigation area installation to verify that restoration activities have been successful. Maintenance activities may include, but not be limited to, watering during the plant establishment period, supplemental seed planting as needed, and removal of non-native plants. Monitoring shall include, at a minimum, quarterly monitoring reports for the first year and annual reports for the remaining four years. The performance standard for successful mitigation shall be a minimum 3:1 replacement ratio (i.e., three plants observed in mitigation area for each plant lost from the project site) achieved in at least one of the five years of monitoring.

If the focused surveys identify Santa Cruz tarplant within the project site boundary and it would be affected by the proposed project, then an incidental take permit shall be obtained from the California Department of Fish and Wildlife and possibly the U.S. Fish and Wildlife Service (if federally listed wildlife species will also be impacted). Measures to avoid, minimize, and mitigate impacts to Santa Cruz tarplant may include, but not be limited to, those listed in in (1), above, and will be further refined in the incidental take permit(s). Permit(s) shall be acquired, and measures shall be implemented by the City of Watsonville prior to ground disturbance.

The City of Watsonville will be responsible for implementation of this mitigation measure. Compliance with this measure shall be documented prior to ground disturbance.

Implementation of this mitigation measure would reduce potential, significant impacts to Santa Cruz tarplant and Congdon's tarplant to less than significant by ensuring that surveys are conducted to determine its presence, and if present, measures are implemented to conserve and/or propagate the species in an alternative location. Therefore, this impact is less than significant with mitigation incorporated.

Special-Status Wildlife Species. Of the special-status wildlife species known to occur in the project vicinity and identified in Appendix C, the following species have the potential to occur on the project site: California red-legged frog (*Rana draytonii*), western pond turtle (*Emys marmorata*), tricolored blackbird (*Agelaius tricolor*), monarch butterfly (*Danaus plexippus*), pallid bat (*Antrozous pallidus*), and Townsend's big-eared bat (*Corynorhinus townsendii*). Nesting birds may also occur at the project site.

Loss or harm to special-status wildlife species are considered a significant adverse impact. Implementation of the following mitigation measures would reduce potentially significant impacts to special-status wildlife species to a less-than-significant level.

California Red-legged Frog. A federally-listed Threatened species and California Species of Special Concern, California red-legged frog occurs in lowlands and foothills primarily in perennial or ephemeral ponds, pools, and streams where water remains long enough (14-28 weeks) for breeding and metamorphosis of tadpoles. Specific breeding sites include streams, creeks, ponds, marshes, sag ponds, deep pools, backwater areas, dune ponds, lagoons, and estuaries. California red-legged frog may disperse from their aquatic breeding habitats to upland habitats during the dry season. They prefer upland habitats that provide moisture to prevent desiccation and protection from predators, including downed logs, woody vegetation, boulders, moist leaf litter, or other refugia during the dry season. In areas where upland habitats do not contain structure, they take refuge in burrows. However, if there is sufficient water at their breeding location, they may remain in aquatic habitats year-round instead of moving to adjacent uplands.

During wet seasons, frogs can move long distances between habitats, traversing upland areas or ephemeral drainages. Dispersal distances are typically less than 0.3 mile, with a few individuals moving 1.2-2.2 miles. Seeps and springs in open grasslands can function as foraging habitat or refugia for wandering frogs.

CNDDB records indicate that the closest known occurrence of California red-legged frog to the project site was recorded in 2004, within Watsonville Slough immediately adjacent to Ramsey Park (Occurrence No. 749, CNDDB 2022). Slough habitats and upland grassland habitats adjacent to the Slough are considered potential breeding and upland habitat for California red-legged frog. Therefore, project impacts on California red-legged frog are considered potentially significant. Implementation of mitigation measures BIO-2, through BIO-4 would reduce this potential, significant impact to California red-legged frog to a less-than-significant level.

Mitigation Measures

BIO-2 The City of Watsonville shall hire a qualified biologist to conduct preconstruction surveys following the guidance documented in the *Revised Guidance on Site Assessments and Field Surveys for the California Red-legged Frog* (USFWS 2005) no more than two weeks (14 days) prior to the start of construction activities. The project site will be surveyed for potential migratory and/or upland activity. The qualified biologist shall prepare a report documenting the results of the preconstruction surveys for submittal to the City of Watsonville prior to ground disturbance.

If California red-legged frog is found, the City of Watsonville will coordinate with the USFWS and/or CDFW to determine the appropriate course of action per the requirements of FESA and/or CESA (e.g., obtaining Incidental Take Permits) and implement the permit requirements prior to ground disturbance.

BIO-3 Prior to approval of a grading permit, the City of Watsonville shall hire a qualified biologist to conduct a training session for all construction personnel. At a minimum, the training shall include a description of special-status species potentially occurring in the project vicinity, including, but not limited to, California red-legged frog, western pond turtle, tricolored blackbird, monarch butterfly, special-status bats, and nesting birds and raptors. Their habitats, general measures that are being implemented to conserve species as they relate to the project, and the boundaries within which construction activities will occur will be explained. Informational handouts with photographs clearly illustrating the species' appearances shall be used in the training session. All new construction personnel shall undergo this mandatory environmental awareness training.

The qualified biologist will train biological monitors selected from the construction crew by the construction contractor (typically the project foreman). Before the start of work each day, the monitor will check for animals under any equipment such as vehicles and stored pipes within active construction zones. The monitor will also check all excavated steep-walled holes or trenches greater than one foot deep for trapped animals. If a special-status species is observed within an active construction zone, the qualified biologist will be notified immediately and all work within 50 feet of the individual will be halted and all equipment turned off until the individual has left the construction area.

The qualified biologist shall provide documented evidence of completion of this training to the City of Watsonville prior to ground disturbance.

BIO-4 The City of Watsonville shall ensure the following measures from the USFWS Programmatic Biological Opinion for Issuance of Permits under Section 404 of the Clean Water Act and Section 10 of the Rivers and Harbors Act, including Authorizations Under 22 Nationwide Permits, for Projects that May Affect the Threatened California Red-legged Frog in Nine San Francisco Bay Area Counties, California (USFWS 2014) are implemented. If at any point California red-legged frog is found, the City of Watsonville will coordinate with the USFWS and/or CDFW to determine the appropriate course of action per the requirements of FESA and/or CESA (e.g., obtaining Incidental Take Permits) and implement the permit requirements prior to ground disturbance.

a. A qualified biologist shall be on site during all activities within 200 feet from the outer edge of wetland vegetation along Watsonville Slough.

b. To the extent possible, all ground-disturbing work within 200 feet from the outer edge of wetland vegetation along Watsonville Slough shall be avoided between November 1 and March 31, the time period when California red-legged frogs are most likely to be moving through upland areas.

c. Prior to construction activities, exclusionary fencing shall be placed to keep construction vehicles and personnel from impacting potentially jurisdictional waters and riparian/wetland habitat outside of work areas. A biological monitor shall supervise the installation of exclusionary fencing and monitor at least once per week until construction is complete to ensure that the protective exclusionary fencing remains intact. Exclusion fencing material shall be selected to avoid accidental entrapment of wildlife species, such as fencing with a smaller gauge or no gaps at all (e.g., Animex™ fencing).

d. To minimize harassment, injury, death, and harm in the form of temporary habitat disturbances, all project-related vehicle traffic shall be restricted to established roads, construction areas, equipment staging, storage, parking, and stockpile areas.

e. If a California red-legged frog is encountered, all activities which have the potential to result in the harassment, injury, or death of the individual shall be immediately halted. A qualified biologist shall then assess the situation and select a course of action that shall avoid or minimize adverse effects to the animal.

f. Uneaten human food and trash attracts crows, ravens, coyotes, and other predators of the California red-legged frog. A litter control program shall be instituted at each project site. All workers shall ensure their food scraps, paper wrappers, food containers, cans, bottles, and other trash are deposited in covered or closed trash containers. The trash containers shall be removed from the project site at the end of each working day.

g. Loss of soil from run-off or erosion shall be prevented with straw bales, straw wattles, or similar means provided they do not entangle, block escape or dispersal routes of the California red-legged frog.

h. No insecticides or herbicides shall be used at the project site during construction or long-term operational maintenance where there is the potential for these chemical agents to enter the river, or uplands that contain potential habitat for the California red-legged frog.

i. No pets shall be permitted at the project site, to avoid and minimize the potential for harassment, injury, and death of the California red-legged frog.

j. For on-site storage of pipes, conduits, and other materials that could provide shelter for special-status species, an open-top trailer shall be used to elevate the materials above ground. This is intended to reduce the potential for animals to climb into the conduits and other materials.

k. To the maximum extent possible, night-time construction shall be minimized or avoided because dusk and dawn are often the times when the California red-legged frog is most actively moving and foraging.

l. Plastic monofilament netting (erosion control matting), loosely woven netting, or similar material in any form shall not be used at the project site because California red-legged frogs can become entangled and trapped in them. Materials utilizing fixed weaves (strands cannot move), polypropylene, polymer, or other synthetic materials shall not be used.

m. Trenches or pits one foot or deeper that are going to be left unfilled for more than 48 hours shall be securely covered with boards or other material to prevent the California red-legged frog from falling into them.

The qualified biologist shall submit monthly reports documenting compliance with Measure BIO-4 to the City of Watsonville during construction within 200 feet from the outer edge of wetland vegetation along Watsonville Slough.

Western Pond Turtle. Western pond turtle is a California Species of Special Concern. It is uncommon to common in suitable aquatic habitat throughout California including freshwater marshes, stock ponds, lakes, rivers, and streams. This species is considered omnivorous. Aquatic plant material, including pond lilies, beetles and a variety of aquatic invertebrates as well as fishes, frogs, and even carrion have been reported among their food. Pond turtles require basking sites such as partially submerged logs, rocks, mats of floating vegetation, or open mud banks. Turtles slip from basking sites to underwater retreats at the approach of humans or potential predators.

CNDDB records indicate that the closest known occurrence of western pond turtle was recorded 2007, approximately 1,500 feet west of Ramsey Park, within Struve Slough (Occurrence No. 329, CNDDB 2022). Struve Slough is hydrologically connected to Watsonville Slough and similar aquatic and upland habitats are found along the eastern edge of Ramsey Park. Therefore, potential project impacts on western pond turtle are considered significant. Implementation of Mitigation Measure BIO-3, presented above, which requires a training session on special-status species potentially present on the construction site for all personnel, and BIO-5 would reduce this potential, significant impact to western pond turtle to a less-than-significant level.

Mitigation Measure

BIO-5 The City of Watsonville shall implement the following measures for the protection of western pond turtle:

a. Within 24 hours prior to vegetation removal or ground-disturbing activities within 200 feet from the outer edge of riparian vegetation along Watsonville Slough, the City of Watsonville shall retain a qualified biologist familiar with western pond turtles, including their eggs and nests, to conduct a pre-construction survey of the area in and adjacent to the project site. If any pond turtles are found in or adjacent to the project site, construction activities shall not commence until the turtles have left the area or the qualified biologist relocates the turtles to nearby suitable habitat a minimum of 300 feet from the project site. Pond turtle relocation shall only be conducted with CDFW authorization.

b. During all initial ground-disturbing activities within 200 feet from the outer edge of wetland vegetation along Watsonville Slough, the qualified biologist shall monitor construction activity to assess the potential impacts to turtles and/or their nests, if present. If a western pond turtle nest is discovered during initial ground-disturbing activity, all work shall stop and the CDFW shall be contacted for guidance on how to proceed. Relocation of pond turtles and/or their nests shall only be conducted with CDFW authorization.

c. Disturbance to riparian vegetation along Watsonville Slough shall be avoided. Placement of all staging areas, access roads, and other construction related facilities shall be located away from Watsonville Slough.

d. Within 200 feet from the outer edge of wetland vegetation along Watsonville Slough, all construction-related holes shall be covered at the end of each workday to prevent entrapment of western pond turtles.

The qualified biologist shall prepare a report documenting the results of the preconstruction survey for submittal to the City of Watsonville prior to ground disturbance. The qualified biologist shall submit monthly reports documenting compliance with measures 5b – 5d to the City of Watsonville during construction within 200 feet from the outer edge of wetland vegetation along Watsonville Slough.

Monarch Butterfly. Monarch butterfly is not officially listed under CESA or ESA or considered a CDFW species of special concern; however, on December 15, 2020, the USFWS announced that listing the monarch as endangered or threatened under the Endangered Species Act is warranted, but precluded by higher priority listing actions. The

monarch is now a candidate under the ESA; and will be reviewed by USFWS annually until a listing decision is made. CDFW monitors overwintering colonies of this species because monarch populations in California have severely declined since the 1980s (Xerces 2017). The cause of this decline is thought to be loss of milkweed (*Asclepias* spp.) and nectar plants; loss and degradation of overwintering groves; and other stressors like disease, insecticides, and impacts of climate change (Xerces 2017). The monarch overwintering season is typically October to March.

Monarchs do not favor eucalyptus trees; however, most of the overwintering locations in California are within eucalyptus groves simply because of their abundance in coastal areas in the state (Xerces 2017). Within the project vicinity, native trees that could be used by overwintering monarchs include coast live oak and coniferous forest (Xerces 2017). The project has been specifically designed to retain as many mature trees as possible, however some eucalyptus and other coniferous trees will be removed as part of the proposed project (Table 2, below). Removal or disturbance of monarch overwintering habitat is considered a significant impact. Implementation of Mitigation Measure BIO-3, presented above, which requires a training session on special-status species potentially present on the construction site for all personnel, and BIO-6 would reduce potential, significant impacts to monarch butterfly to less than significant.

Mitigation Measure

BIO-6 Butterfly Survey and Avoidance. Prior to initiation of ground disturbance, a late fall/early winter monarch butterfly survey of trees on the project site shall be conducted by a qualified biologist. A letter report documenting survey results shall be submitted to the City of Watsonville upon completion. If the results of the survey do not identify any potential overwintering monarch butterflies on-site, no further mitigation is required. If it is determined that overwintering monarchs use the site, the City shall avoid removal of trees used for overwintering by monarchs to the greatest extent feasible. If trees cannot be avoided, tree removal shall occur outside of the overwintering period, which generally occurs from November through February, or until a qualified biologist has determined that overwintering monarchs are no longer using the site.

Bats. Trees and/or buildings or structures on or adjacent to the project site could provide roosting habitat for state-listed species of special concern pallid bat (*Antrozous pallidus*) and Townsend's big-eared bat (*Corynorhinus townsendii*). Pallid bat prefers roosting in open, dry habitats with rocky areas. Townsend's big-eared bat prefers roosting and nesting found in caves, tunnels, mines, and buildings. The distribution of bat species in the Watsonville area is relatively unknown, however these species have been identified as occurring within ten miles to the north and east of the project site (CNDDB 2022). Tree removal and construction activities at the project site could result in the disturbance of roost and natal sites occupied by special-status bats on or adjacent to the project site, if present. Implementation of mitigation measures BIO-3, presented earlier, which requires a training session on special-status species potentially present on the construction site for

all personnel, and BIO-7 would reduce this potential, significant impact to special-status bats to a less-than-significant level.

Mitigation Measure

BIO-7 Approximately 14 days prior to tree removal or construction activities, a qualified biologist shall conduct a habitat assessment for bats and potential roosting sites in trees to be removed, in trees within 50 feet of the construction easement. These surveys shall include a visual inspection of potential roosting features (bats need not be present) and a search for presence of guano within the project site, construction access routes, and 50 feet around these areas. Cavities, crevices, exfoliating bark, and bark fissures that could provide suitable potential nest or roost habitat for bats shall be surveyed. Assumptions can be made on what species is present due to observed visual characteristics along with habitat use, or the bats can be identified to the species level with the use of a bat echolocation detector such as an "Anabat" unit. Potential roosting features found during the survey shall be flagged or marked.

If no roosting sites or bats are found, a letter report confirming absence shall be prepared and submitted to City of Watsonville and no further mitigation is required. If bats or roosting sites are found, bats shall not be disturbed without specific notice to and consultation with CDFW.

If bats are found roosting outside of the nursery season (May 1 through October 1), CDFW shall be consulted prior to any eviction or other action. If avoidance or postponement is not feasible, a Bat Eviction Plan will be submitted to CDFW for written approval prior to project implementation. A request to evict bats from a roost includes details for excluding bats from the roost site and monitoring to ensure that all bats have exited the roost prior to the start of activity and are unable to re-enter the roost until activity is completed. Any bat eviction shall be timed to avoid lactation and young-rearing. If bats are found roosting during the nursery season, they shall be monitored to determine if the roost site is a maternal roost. This could occur by either visual inspection of the roost bat pups, if possible, or by monitoring the roost after the adults leave for the night to listen for bat pups. Because bat pups cannot leave the roost until they are mature enough, eviction of a maternal roost cannot occur during the nursery season. Therefore, if a maternal roost is present, a 50-foot buffer zone (or different size if determined in consultation with the CDFW) shall be established around the roosting site within which no construction activities including tree removal or structure disturbance shall occur until after the nursery season. Once the absence of roosting bats has been confirmed, a letter report will be prepared and submitted to the City of Watsonville.

Nesting Birds. Protected nesting birds, including bank swallow (*Riparia* riparia) and short-eared owl (*Asio flammeus*), and raptor species such as Cooper's hawk (*Accipter cooperii*)

and white-tailed kite (*Elanus leucurus*), have the potential to nest in buildings or structures, on open ground, or in any type of vegetation, including trees, during the nesting bird season (January 15 through September 15). The project site and surrounding properties contain a variety of trees and shrubs, resulting in the potential for impacts to protected nesting birds. Construction activities, including ground disturbance, can impact nesting birds protected under the federal Migratory Bird Treaty Act and California Fish and Game Code, should nesting birds be present during construction. If protected bird species are nesting adjacent to the project site during the bird nesting season, then noise-generating construction activities could result in the loss of fertile eggs, nestlings, or otherwise lead to the abandonment of nests. Implementation of Mitigation Measure BIO-3, presented above, which requires a training session on special-status species potentially present on the construction site for all personnel, and the following mitigation measure would reduce potential, significant impacts to nesting birds to less than significant.

Mitigation Measure

BIO-8 The current construction schedule will require 18 months to complete. If construction is initiated during the bird nesting season (January 15 through September 15), then a qualified biologist will conduct a pre-construction survey for nesting birds to ensure that no nests would be disturbed during project construction.

a. Two surveys for active bird nests will occur within 14 days prior to start of construction, with the final survey conducted within 48 hours prior to construction. Appropriate minimum survey radii surrounding each work area are typically 250 feet for passerines, 500 feet for smaller raptors, and 1,000 feet for larger raptors. Surveys will be conducted at the appropriate times of day to observe nesting activities. Locations off the site to which access is not available may be surveyed from within the site or from public areas. If no nesting birds are found, a letter report confirming absence will be prepared and submitted to the City of Watsonville and no further mitigation is required.

b. If the qualified biologist documents active nests within the project site or in nearby surrounding areas, an appropriate buffer between each nest and active construction shall be established. The buffer shall be clearly marked and maintained until the young have fledged and are foraging independently. Prior to construction, the qualified biologist shall conduct baseline monitoring of each nest to characterize "normal" bird behavior and establish a buffer distance, which allows the birds to exhibit normal behavior. The qualified biologist shall monitor the nesting birds daily during construction activities and increase the buffer if birds show signs of unusual or distressed behavior (e.g., defensive flights and vocalizations, standing up from a brooding position, and/or flying away from the nest). If

buffer establishment is not possible, the qualified biologist or construction foreman shall have the authority to cease all construction work in the area until the young have fledged and the nest is no longer active. Once the absence of nesting birds has been confirmed, a letter report will be prepared and submitted to the City of Watsonville.

b. **Riparian Habitat or Sensitive Natural Communities.** Riparian and wetland habitats on the project site consist of arroyo willow riparian scrub (summarized above) located on the eastern edge of the park along Watsonville Slough. A small drainage ditch with disturbed willow riparian scrub plant species is located adjacent to the northeastern corner, most likely a remnant part of the slough that now collects runoff from Main Street. A homeless encampment and refuse have further degraded this area. A shallow, concrete-lined drainage ditch is located in the southern part of the project site, across Harkins Slough Road. No vegetation is located along the drainage ditch. The slough and drainage ditches are shown on Figure 11, Habitat Map.

The Watsonville 2005 General Plan policies include the protection of marshes, creeks, rivers, lakes, and sloughs. Impacts to riparian and wetland habitats are considered significant adverse environmental impacts. Impacts to vegetation along Watsonville Slough or the slough itself from noise, dust, or run-off are considered significant adverse environmental impacts. Implementation of Mitigation Measure BIO-11, presented in the wetlands section below, and the following mitigation measure would reduce potential, significant impacts to riparian and wetland habitats to less-than-significant.

Mitigation Measures

BIO-9 Given the high quality and diverse ecological functions of the Watsonville Slough habitats; construction activities shall be set back at least 50 feet from the outer edge of wetland vegetation.

All fueling and maintenance of vehicles and other equipment and staging areas shall occur at least 50 feet from aquatic habitat. Prior to the onset of work, the construction contractor shall provide written documentation to the City of Watsonville that a plan to allow a prompt and effective response to any accidental spills has been prepared. All spills shall be cleaned up immediately with contaminated materials disposed of offsite in an appropriate facility.

BIO-10 On-site landscaping shall be limited to drought-tolerant species, fire-resistant species, and species capable of increasing soil stability; with preference to plant species endemic to Santa Cruz County. Species from the California Invasive Plant Council's (Cal-IPC) Invasive Plant List (Cal-IPC 2019) shall be removed if present and not included in any new landscaping.

c. **Wetlands and Waters of the United States.** A review of the National Wetlands Inventory (NWI) online database was conducted to identify the closest jurisdictional aquatic features on or adjacent to the project site (USFWS 2022).

Several aquatic features were identified on, and immediately adjacent to, the project site, including willow riparian scrub summarized above and shown on Figure 11, Habitat Map. The NWI includes two habitat classifications along the eastern project edge: freshwater forested/shrub wetland (PFOC) and freshwater emergent wetland (PEM1C) (USFWS 2022).

The current project plans include possible encroachment (tree planting and bioretention garden) into the riparian or wetland areas in two locations, as shown on Figure 11, Habitat Map. If encroachment into to riparian or wetland areas must occur, impacts are considered significant adverse environmental impacts. The following mitigation measure would assure that this potentially significant impact is reduced to less-than-significant.

Mitigation Measure

BIO-11 If impacts to riparian or wetland areas cannot be avoided, the City of Watsonville will retain a qualified biologist to determine the extent of potential wetlands and waterways regulated by the United States Army Corps of Engineers (USACE), Regional Water Quality Control Board (RWQCB), and CDFW. If the USACE claims jurisdiction, the City shall retain a qualified biologist to obtain a Clean Water Act Section 404 Nationwide Permit. If the impacts to the drainage features do not qualify for a Nationwide Permit, the City will proceed with the qualified biologist in obtaining an Individual Permit from the USACE. The City will then retain a qualified biologist to coordinate with the RWQCB to obtain a Clean Water Act Section 401 Water Quality Certification. If necessary, the City will also retain a qualified biologist to coordinate with the CDFW to obtain a Streambed Alteration Agreement.

To compensate for temporary and/or permanent impacts to Waters of the U.S. that would be impacted as a result of the proposed project, mitigation shall be provided as required by the regulatory permits. Mitigation would be provided through one of the following mechanisms:

a. A Wetland Mitigation and Monitoring Plan shall be developed that will outline mitigation and monitoring obligations for temporary impacts to wetlands and other waters as a result of construction activities. The Wetland Mitigation and Monitoring Plan would include thresholds of success, monitoring and reporting requirements, and site-specific plans to compensate for wetland losses resulting from the project. The Wetland Mitigation and Monitoring Plan shall be submitted to the appropriate regulatory agencies for review and approval during the permit application process.

b. To compensate for permanent impacts, the purchase and/or dedication of land to provide suitable wetland restoration or creation shall ensure a no net loss of wetland values or functions. If restoration is available and feasible, a minimum 1:1 mitigation to impact ratio would apply to projects for which mitigation is provided in advance.

d. **Wildlife Movement.** Terrestrial species must navigate a habitat landscape that meets their needs for breeding, feeding and shelter. Natural and semi-natural components of the landscape must be large enough and connected enough to meet the needs of all species that use them. Wildlife movement corridors provide connectivity between habitat areas, enhancing species richness and diversity, and usually also provide cover, water, food, and breeding sites. Corridors typically range from 100 to 400 feet in width, within which habitat is continuous and suitable for wildlife movement.

Watsonville Slough borders the project site to the east and represents a locally important habitat corridor. The nearest regionally designated habitat corridor is along the Pajaro River, approximately 1.2 miles southeast of the project site (CDFW 2022). The project site is not located within any previously defined essential connectivity areas and impacts to Watsonville Slough and species potentially present will be minimized through implementation of the mitigation measures above. As such, the proposed project would have a less-than-significant impact on wildlife movement.

Lighting and Glare. The proposed project includes new field lighting at the Sotomayor Soccer Field and replacement of existing field lighting at the Multi-Use Sports Field. As described in the project description presented earlier in this initial study, new field lighting at the soccer field would consist of six lighting poles measuring between 70 and 80 feet in height and containing between 5 and 8 luminaires per pole for a total of 36 luminaires. The proposed light pole locations and lighting intensity measurements as measured by footcandle are illustrated in Figure 5, Ramsay Park Soccer Fields Illumination Summary. Replacement of existing field lighting poles at the Multi-Use Sports Field include new field lights and poles measuring between 60 and 70 feet in height with a total of 35 luminaires as shown in Figure 7, Multi-Use Sports Field Illumination Summary. See also Figure 10, Project Site Illumination Summary, for an overview of light spillage potential and illumination levels across the entire park site and in the immediate surroundings.

Proposed lighting would be visible to the surrounding area, which would alter the nighttime environment with additional illuminance. The addition of field lighting would create new and increased lighting conditions along Watsonville Slough. Both listed and non-listed plant and wildlife species are sensitive to artificial lighting, particularly at night. Artificial lighting could impact species by altering their reproductive behavior, such as disrupting their territorial or courtship vocalizations. Wildlife that are active at night may avoid areas that are exposed to lighting, since many of these species use the darkness as cover to protect them from predation by other animals. Glare from the outdoor lighting has the potential to also impact Watsonville Slough and the riparian and wetland habitats surrounding the slough, which support habitat for California red-legged frog and other amphibians, which are often more active at night. Impacts to special-status species and sensitive habitat areas as a result of increased light and glare are considered potentially significant. Implementation of Mitigation Measure BIO-12 would reduce potential, significant impacts as a result of increased light and glare to less than significant.

Mitigation Measure

BIO-12 Prior to City approval of the construction plans, the following design guidelines for outdoor lighting shall be incorporated:

a. New outer outdoor lighting shall be directed away from the adjacent sensitive habitats associated with Watsonville Slough.

b. Dimmer lights, the use of motion sensors, and late night off-periods shall be used to minimize lighting impacts to the adjacent sensitive habitat.

c. Generally following the International Dark-Sky Association guidelines for minimizing light pollution, outdoor lighting shall be provided in a manner that provides for nighttime safety, utility, security, and enjoyment while preventing light trespass into natural areas surrounding the sites.

d. The design objective shall be to preclude any net increase in ambient lighting into adjacent sensitive habitats.

e. All external lighting shall include full-cutoff angles, which focus on target areas and do not extend to adjacent sensitive habitat.

f. Any pedestrian/bicycle pathway safety lighting shall be limited to low-bollard style lights that limit illumination to the trail surface.

e. **Local Biological Resource Policies/Ordinances.** The Watsonville 2005 General Plan outlines goals, policies, and implementation measures regarding biological resources, as shown below:

Goal 9.3. Identify and protect the natural resources of the Watsonville Planning Area.

Goal 9.8 Wildlife Habitat Preserve and protect the remaining areas of wildlife habitat for their scenic and scientific value.

9.A.4 Biological Study — The City shall cooperate with the County in preparing a biological study for protection of the sloughs and habitat dependent on the sloughs located in and around Watsonville. A plant inventory and map of sensitive biological and botanical resources should be a part of the study.

9.B.2 Natural Resource Mitigations — The City shall require implementation of environmental mitigation on projects that may destroy or impair the future use or existence of natural resources.

Policy 9.F Wildlife Habitat Protection — The City shall designate for open space and environmental management those areas rich in wildlife species and fragile in ecological makeup. These habitat zones shall be made part of the greenbelt where appropriate.

Implementation Measures 9.F.1 Habitat Protection — Impacts to important wildlife habitat areas shall be identified as part of the City'5 development review and environmental review processes, and appropriate mitigations shall be considered. Mitigation measures to be considered include: designation of

sensitive areas as open space, restriction of new development on lands that provide important wildlife habitat, setback requirements, habitat conservation plans, and habitat mitigation banking. Lands within the urban limit line that provide important wildlife habitat include, but are not limited to the following:

a. Riparian Corridors

b. Fresh Water Marshes and Sloughs

c. Woodlands and Steep Slopes.

9.F.2 Restoration — The City shall support and encourage public and private efforts to restore degraded natural habitat zones and, when possible, to acquire them for preservation.

9.F.3 Pesticide Control — The City shall carefully regulate and monitor, within the limits of its authority, the use of pesticides, herbicides, and fungicides in and adjacent to wildlife habitat zones.

9.F.4 Fish and Game Consultation - The City shall refer development proposals to the California Department of Fish and Game for its recommendations on conservation measures for native plant communities, riparian vegetation, wildlife habitat, and wetland preservation

Mitigation measures contained in this section will mitigate impacts to biological resources to a less-than-significant level. With these considerations, the proposed project would not conflict with local policies and ordinances related to biological resources.

Protected Trees. While the City has adopted ordinances which protect some trees, it does not have a comprehensive tree preservation ordinance nor a comprehensive plan to preserve and expand the urban forest. A tree ordinance was proposed over a decade ago but was not adopted. Watsonville Municipal Code Section 7-11 regulates the removal of all trees growing along public streets. Trimming and removing these "protected" trees currently requires authorization through a permit issued by the Director of Public Works. In addition, according to Section 7-13, an individual tree or a cluster of trees with special character, historical, and/or aesthetic value may be designated as a "historical" via a resolution of either the City Council or Planning Commission. None of the trees on the site have been designated "historical".

An inventory of existing trees and a planting plan was created for this project (Appendix C, Verde Design 2022). Table 2 includes a summary of the trees to be removed, to remain, and to be planted is below. Table 3 includes the species, size, and quantity of trees to be planted.

Table 2 Summary of Trees to be Removed, to Remain, and to be Planted

Name	Quantity
Number of trees onsite	369
Existing dead trees onsite	4
Stumps onsite	7
Existing trees to be removed	67
Stumps to be removed	6
Existing trees to remain	302
New trees proposed	235
Total of trees to remain & proposed onsite	537
Total Net Gain	168

SOURCE: Verde Design 2022

Table 3 Tree Planting Plan

Name	Size	Quantity
Western redbud (*Cercis occidentalis*)	15 gallon	47
Desert willow (*Chilopsis linearis*)	15 gallon	7
Black gum (*Nyssa sylvatia* 'Hayman red')	15 gallon	36
Coast live oak (*Quercus agrifolia*)	15 gallon	55
Southern red oak (*Quercus shumardii*)	15 gallon	10
Island oak (*Quercus tomentella*)	15 gallon	8
Blue elderberry (*Sambucus nigra* ssp. *caerulea*)	15 gallon	27
Western red cedar (*Thuja plicata* 'Emerald Cone')	15 gallon	5
Brush box (*Tristania conferta*)	15 gallon	26
Japanese zelkova (*Zelkova serrata* 'Green Vase')	15 gallon	12

SOURCE: Verde Design 2022

No conflicts with the tree protection measures in the Watsonville Municipal Code are anticipated. Therefore, the impact would be less than significant, and no mitigation is considered necessary.

f. **Conservation Plans.** There are no critical habitat boundaries, habitat conservation plans, natural community conservation plans, or other approved local, regional, or state habitat conservation plans applicable to the proposed project site. USFWS-designated Critical Habitat for California red-legged frog is located less than one mile to the west of the project site.

5. CULTURAL RESOURCES

Would the project:

		Potentially Significant Impact	Less-than-Significant Impact with Mitigation Measures Incorporated	Less-Than-Significant Impact	No Impact
a.	Cause a substantial adverse change in the significance of a historical resource pursuant to section 15064.5? (63)	☐	☒	☐	☐
b.	Cause a substantial adverse change in the significance of an archaeological resource pursuant to section 15064.5? (63)	☐	☒	☐	☐
c.	Disturb any human remains, including those interred outside of dedicated cemeteries? (63)	☐	☒	☐	☐

Comments:

This section is based on the Archaeological Survey Report of the Watsonville Slough Connector Project (archaeological report) prepared by Historic Resource Associates in December 2020 as well as an updated Northwest Information Central archival search conducted in December 2021 by EMC Planning Group. The archival research revealed that the project location has a moderate to high potential for unrecorded Native American resources and a high potential for unrecorded historic-period archaeological resources. Additionally, in February 2022, a record search of the Native American Heritage Commission (NAHC) Sacred Lands File was completed for the project site and the results were negative.

According to NWIC records, there have been six cultural resource studies that covered a large percentage of the project area: Archaeological Consulting and Research Services, Inc. 1976 (S-004036), Breschini and Haversat 1986 (S-008027), Runnings 1990 (S-008027a), Busby 1999 (S-023086), Busby 1991 (S-203086a), and Farquhar 2014 (S-046679).

According to records at the NWIC, one historical archaeological site (P-44-000761), a refuse and bottle dump, was identified at the project site. According to NWIC records, P-44-000761 lies below the Harkins Slough Road on the south edge of the park and was uncovered at a depth of three feet while excavating for a Pacific, Gas & Electric (PG&E) gas transmission line in 2013.

Site S-004036, which is located south of Harkins Slough Road, where new tree plantings are proposed, contained Native American human burials.

On October 29, 2020, the NAHC responded to a request by R.L. Hastings & Associates, LLC for a record search of the NAHC database. According to the NAHC, the results were negative for cultural resources. On December 16, 2020, a field survey was conducted within the project limits, walking one meter transects. Ground surface visibility was adequate to identify any cultural sites, features, or artifacts. The project site is characterized by a municipal park that includes

natural areas developed with water resources, a sports field, skate board park, picnic areas, parking, and other related infrastructure.

a, b. The historic/archaeological resource P-44-00761 was discovered three feet below the surface within the park area along Harkins Slough Road. Due to this historic resource being underground, it is unknown if that initial discovery of 75 historic bottles is the extent of the site or if the site boundaries continue. Ground disturbing activities, at a depth of three feet, located within the resource or a distance of 50 feet, may uncover additional artifacts. However, no improvements are proposed within 150 feet of Harkins Slough Road and therefore, impacts to this resource are not anticipated.

Additionally, unknown historic or unique archaeological resources could be present at the project site due to the proximity of the Watsonville Slough, and could be damaged or destroyed by ground-disturbing construction activities (e.g., site preparation, grading, excavation, and trenching for utilities) associated with the proposed park improvements. This would be considered a significant impact. Implementation of the following mitigation measures would reduce this potential, significant impact to a less than significant level.

Mitigation Measures

CR-1 A qualified archaeologist shall provide archaeological and cultural sensitivity training for all construction personnel associated with any ground disturbing activities (including tree and vegetation removal, tree planting, demolition and/or grading).

The training will be conducted by a qualified archaeologist that meets the Secretary of the Interior's standards for archaeology. The training will take place at a day and time to be determined in conjunction with the project construction foreman, and prior to any scheduled ground disturbance. The training will include the following: a human osteology handout; a discussion of applicable laws and penalties; samples or visual aids of artifacts that could be encountered in the project vicinity, including what those artifacts and resources may look like partially buried, or wholly buried and freshly exposed; and instructions to halt work in the vicinity of any potential cultural resource discovery, and notify the Native American monitor as necessary. Due to the proximity of human burials, it is recommended that all personnel directly involved in project-related ground disturbance be informed of what human skeletal remains may look like partially buried, or wholly buried and freshly exposed and instructions to halt work in the vicinity of any human remains discovery. The foreman will keep a copy of the sensitivity training materials in his or her vehicle as a reference. Having reference material in the vehicle does not replace contacting an archaeologist or a Native American monitor should resources be uncovered.

CR-2 If any prehistoric or historic subsurface cultural resources, including tribal cultural resources, are discovered during ground-disturbing activities (including tree and vegetation removal, tree planting, demolition and/or grading):

a. All work within 50 feet of the resources shall be halted and a qualified archaeologist shall be consulted to assess the significance of the find according to CEQA Guidelines Section 15064.5.

b. If any find is determined to be significant, representatives from the City of Watsonville Recreation Department and the archaeologist shall meet to determine the appropriate avoidance measures or other appropriate mitigation.

c. All significant prehistoric cultural materials and or tribal cultural resources recovered shall be returned to Native American tribes traditionally and culturally affiliated with the area.

d. In considering any suggested mitigation proposed by the consulting archaeologist to mitigate impacts to historical resources or unique archaeological resources, the City shall determine whether avoidance is necessary and feasible in light of factors such as the nature of the find, proposed project design, costs, and other considerations.

e. If avoidance is infeasible, other appropriate measures (e.g., data recovery) would be implemented.

f. Work may proceed on other parts of the project site while mitigation for historical resources or unique archaeological resources is being carried out.

c. The surveyed area from the 1976 report discusses two archaeological sites that contained human remains extended to Harkins Slough Road and the Ramsay Park Tennis Courts. The boundaries for these two sites were never established, thus it is unknown if these two sites extend into the project site. There remains the possibility that these two sites, which contained human remains, are located within the soils underlying the project site area and that ground disturbing activities associated with the proposed project could damage or destroy the previously undiscovered human remains. This would be considered a significant impact. Implementation of mitigation measures CR-1, CR-2, CR-3 above, and CR-4 below would ensure potential impacts are less than significant.

Mitigation Measure

CR-3 California Health and Safety Code Section 7050.5 and the CEQA Guidelines Section 15064.5(e) contain the mandated procedures of conduct following the discovery of human remains. According to the provisions in CEQA, if human remains are encountered at the site, all work in the immediate vicinity of the discovery shall cease and necessary steps to ensure the integrity of the immediate area shall be taken. The Santa Cruz County Coroner shall be

notified immediately. The Coroner shall then determine whether the remains are Native American. If the Coroner determines the remains are Native American, the Coroner shall notify the Native American Heritage Commission within 24 hours, who would, in turn, notify the person the Native American Heritage Commission identifies as the Most Likely Descendant of any human remains. Further actions shall be determined, in part, by the desires of the Most Likely Descendant. The Most Likely Descendant has 48 hours to make recommendations regarding the disposition of the remains following notification from the Native American Heritage Commission of the discovery. If the Most Likely Descendant does not make recommendations within 48 hours, the owner shall, with appropriate dignity, reinter the remains in an area of the property secure from further disturbance. Alternatively, if the owner does not accept the Most Likely Descendant's recommendations, the owner or the descendent may request mediation by the Native American Heritage Commission.

6. ENERGY

Would the project:

		Potentially Significant Impact	Less-than-Significant Impact with Mitigation Measures Incorporated	Less-Than-Significant Impact	No Impact
a.	Result in a 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?	☐	☐	☐	☒

Comments:

a. The analysis of energy impacts here is qualitative. There is no quantified threshold of energy demand for a project at which that demand could be considered wasteful, inefficient or unnecessary, either during construction or operations.

A project could be considered to result in significant wasteful, inefficient, or unnecessary energy consumption if its energy demand is extraordinary relative to common land use types, its energy demand is excessive, or it fails to comply with local and state regulatory requirements for reducing energy demand.

Parks are a common urban land use and one that is typically much less energy intensive the other developed urban uses such as residential or commercial uses. A minor increase in electricity demand would result from operating the proposed new buildings and the new field lighting. An increase in transportation fuel demand during park operations is not expected, as the project is not anticipated to result in new vehicle trips. The improvements would support the function of the park as a high-quality recreation resource. This will ensure that local residents continue to drive short distances to use the park rather than traveling longer distances to access other park and recreation resources. The proposed project does not inherently represent a use type or change from existing conditions whose energy demand would be considered wasteful or unnecessary.

As described in Section 8, Greenhouse Gas Emissions, several greenhouse gas reduction measures must be incorporated into the proposed project. Implementation of mitigation measure GHG-1 would assure that this occurs. Each of these measures would reduce energy demand from the proposed project during its long-term operation.

Electricity and transportation fuel will be consumed during the short-term park improvement construction process. Energy demand would be nominal given the type and scale of planned improvements.

A multitude of state regulations and legislative acts are aimed at reducing electricity/natural gas demand and improving energy efficiency in new construction. The planned new buildings and field lighting must be consistent with these regulations. The California Energy Code, Building Energy Efficiency Standards (Title 24, Part 6) is the most relevant to the proposed project. This suite of codes is designed to reduce energy consumption by providing energy efficiency standards for residential and nonresidential buildings. The standards would apply to the proposed buildings and field lighting and would be enforced by the city at the building permit stage. The California Green Building Standards (Title 24, Part 11) is a reach code (i.e., optional standards that exceed the requirements of mandator codes) that provides green building standards for statewide residential and nonresidential construction that are equivalent to or more stringent than those of the California Energy Code for energy efficiency, water efficiency, waste diversion, and indoor air quality. Compliance of the new buildings with these standards would also be enforced by the city at the building permit stage.

Given the considerations summarized above, the energy impacts of the proposed project would be less-than-significant.

b. At this time, there are no regulations at the state or local level that would mandate that the proposed project include on-site renewable energy sources. By incorporating energy efficiency measures per the Building Energy Efficiency Standards and California Green Building Standard, the project would comply with existing state and local energy standards and would have no impact from conflicting with or obstructing a state or local plan for energy efficiency.

7. GEOLOGY AND SOILS

Would the project:

		Potentially Significant Impact	Less-than-Significant Impact with Mitigation Measures 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:				
	(1) 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? (1, 2, 9, 12, 47)	☐	☐	☐	☒
	(2) Strong seismic ground shaking? (1, 2, 9, 12, 47)	☐	☐	☐	☒
	(3) Seismic-related ground failure, including liquefaction? (1, 2, 9, 12, 47)	☐	☐	☐	☒
	(4) Landslides? (1, 2, 9, 12, 47)	☐	☐	☐	☒
b.	Result in substantial soil erosion or the loss of topsoil? (1, 2, 9, 12, 47)	☐	☐	☒	☐
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? (1, 2, 9, 12, 47)	☐	☐	☒	☐
d.	Be located on expansive soil, creating substantial direct or indirect risks to life or property? (1, 2, 9, 12, 47)	☐	☐	☒	☐
e.	Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater? (1, 2, 9, 12, 47)	☐	☐	☐	☒
f.	Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature? (1, 2, 9, 12, 47)	☐	☒	☐	☐

Comments:

The analysis presented below has been written against the backdrop of CEQA case law addressing the scope of analysis required for potential impacts resulting from existing

environmental hazards found at the site or in the vicinity of a site for a proposed project. In *California Building Industry Association v. Bay Area Air Quality Management District* (2015) 62 Cal.4th 369, 377, the California Supreme Court held that "agencies subject to CEQA generally are *not* required to analyze the impact of existing environmental conditions on a project's future users or residents" (italics added). The court reasoned that "ordinary CEQA analysis is concerned with a project's impact on the environment, rather than with the environment's impact on a project and its users or residents" (*Id.* at p. 378).

The court did not hold, however, that CEQA never requires consideration of the effects of existing environmental conditions on the future occupants or users of a proposed project. But the circumstances in which such conditions may be considered are narrow: "when a proposed project risks exacerbating those environmental hazards or conditions that already exist, an agency must analyze the potential impact of such hazards on future residents or users. In those specific instances, it is the project's impact on the environment—and not the environment's impact on the project—that compels an evaluation of how future residents or users could be affected by exacerbated conditions" (*Id.* at pp. 377-378, italics added).

a. (1, 2) The city lies between two major fault zones: the San Andreas to the north and east and the San Gregorio offshore to the west. Other active or potentially active fault zones that could affect the city include the Zayante-Vergeles in Pajaro Valley and the Monterey Bay to the west. The city does not have Alquist-Priolo fault zones within the city limits, but fault zones exist on the outskirts of the city (City of Watsonville 2020). According to the California Geological Survey, the project site is not located within a mapped fault zone (CGS 2021). The project would not involve activities that would exacerbate seismicity risks and therefore, not result directly or indirectly in potentially substantial adverse effects, including the risk of loss, injury, or death involving fault rupture or seismic ground shaking.

   (3) A 2020 geotechnical report prepared for Ramsay Park improvements associated with the connector trail and the Exploration Center indicated that while the soil deposits that underlay the eastern portion of the park are mapped as having a very high liquefaction potential, the soil deposits that underlie the majority of the development area on the western portion of the park are mapped as exhibiting low liquefaction potential. Boring samples taken in the eastern portion of the park property concluded that there is a low probability that liquefaction will occur and negatively impact proposed improvements in the eastern portion of the park (Pacific Crest Engineering 2020). A 2021 supplemental geotechnical report prepared to address proposed seating at the soccer fields confirmed the 2020 report findings regarding liquefaction potential at the soccer fields. Both the 2020 and 2021 geotechnical reports recommended concrete flatwork be underlain by non-expansive fill along with a recommendation that retaining wall foundations be extended 24 inches below lowest adjacent grade or be designed to be founded on piers that extend below the zone of seasonal moisture change. Compliance with these geotechnical report recommendations would ensure proposed park improvements would not directly or indirectly cause potential substantial adverse effects associated with seismic-related ground activity including liquefaction.

(4) The project site is located in an area of low to moderate landslide susceptibility (City of Watsonville 2020). While the eastern edge of the park gradually slopes towards Watsonville Slough, the park site itself is generally flat and not an area at risk for landslides. Therefore, the project site would not alter or exacerbate landslide risks.

b. As noted in the Project Description, based on preliminary grading plans for the proposed improvements, a total of approximately 11.2 acres of the existing park area are anticipated to be impacted and require grading activities. The Exploration Center is expected to require a net balance of 180 cubic yards of export fill over a graded area of 0.48 acres or 20,769 square feet. For the remaining improvements at Ramsay Park, it is anticipated that approximately 6,000 cubic yards of fill material will be brought to the site to accommodate proposed improvements. The grading, cuts, and fills require the issuance of a grading permit. Improper grading, both during and post-construction, has the potential to increase the volume of runoff from a site and subsequently increased erosion. Increased runoff and soil erosion on- and off-site could adversely impact water quality in the surrounding sloughs and streams. The potential soil erosion impact of the project would be less than significant with incorporation of a Stormwater Quality Control Plan (SWCP) which is a uniformly applied development standard that will be included as condition of approval for the project. See Section D.10, Hydrology and Water Quality, for additional discussion of this requirement.

c-d. A 2020 geotechnical report for previous park improvements indicated that there was a low potential for liquefaction, densification, and lateral spreading of the soils underlying the project site. Soils underlying the site were noted as having varying layers of low to highly expansive clays (Pacific Crest Engineering 2020). Clay soils encountered at the soccer field area exhibited intermediate to high expansion potential. To reduce this potential, the geotechnical report recommended that foundations and concrete flatwork be underlain by non-expansive engineered fill. A 2021 supplemental geotechnical report for the proposed soccer field seating area confirmed the 2020 geotechnical report findings regarding expansive soils at the soccer field and recommendation for non-expansive fill at the seating area. Project construction and grading activities will also be conducted in compliance with the California Building Code and City Code Chapter 13-7 (Construction Grading and Drainage Ordinance). Compliance will the 2020 and 2021 geotechnical report recommendations, along with all applicable construction and grading regulations, would reduce impacts to life and property created from soil subsidence and expansion to less-than-significant levels.

e. The proposed park improvements would not involve the use of septic systems, as sewer service is provided to the park by the city's Wastewater Division which operates the Watsonville Wastewater Treatment Facility.

f. Within the city limits, the geology is composed of granitic and metamorphic rocks, ranging in age from Paleozoic to Cretaceous, that form the basement rock. More recent non-marine terrace and alluvial deposits derived from the Santa Cruz Mountains (north and east of the city) comprise the surface sedimentary materials in the city (City of Watsonville 2012, page 7-7). There are no unique geologic features located on or adjacent

to the project site. There are no specific indications of paleontological resources associated with the project site based on geotechnical reports prepared for previous park improvements Although there are no specific indications of paleontological resources associated with the project site, it is always possible to accidentally discover unknown buried paleontological resources during earth-moving activities. Disturbance of unique paleontological resources could be considered a significant adverse environmental impact. Implementation of the following mitigation measure would reduce the potential, significant impact to unique paleontological resources to less than significant.

Mitigation Measure

GEO-1 If paleontological resources are unearthed during ground-disturbing activities, ground-disturbing activities shall be halted or diverted away from the vicinity of the find so that the find can be evaluated. A buffer area of at least 50 feet shall be established around the find where construction activities shall not be allowed to continue until appropriate paleontological treatment plan has been prepared and approved by the City Planning Department. Work shall be allowed to continue outside of the buffer area. The City shall coordinate with a professional paleontologist, who meets the qualifications set forth by the Society of Vertebrate Paleontology, to develop an appropriate treatment plan for the resources. Treatment may include implementation of paleontological salvage excavations to remove the resource along with subsequent laboratory processing and analysis or preservation in place. At the paleontologist's discretion and to reduce construction delay, the grading and excavation contractor shall assist in removing rock samples for initial processing. Paleontological monitoring may be required and will be outlined in the treatment plan.

8. GREENHOUSE GAS EMISSIONS

Would the project:

		Potentially Significant Impact	Less-than-Significant Impact with Mitigation Measures 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? (37)	☐	☒	☐	☐
b.	Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases? (37)	☐	☒	☐	☐

Comments:

a. The city adopted the *City of Watsonville Climate Action and Adaptation Plan* (CAAP) in 2021. The purpose of the CAAP is to guide city decision making to reduce greenhouse gas emissions (GHGs) generated within the city. The CAAP includes GHG reduction targets and associated GHG reduction strategies and measures in the sectors of land use and transportation, energy, solid waste, and natural and working lands. The city has established an aggressive GHG reduction target of 2 metric tons of carbon dioxide equivalent per capita by 2030 to achieve consistency with statewide emissions reduction legislation in effect at the time the CAAP was approved, with an additional reduction goal to achieve net-negative GHG emissions by 2030.

Pursuant to CEQA Guidelines Sections 15064(h)(3) and 15130(d), if a project is consistent with the requirements of an adopted plan for reducing GHG emissions, such as a climate action plan that is prepared consistent with CEQA Guidelines Section 15183.5(b), the lead agency may determine that the GHG impacts of the project are less than significant. No further analysis is necessary. Plans that are prepared consistent with CEQA Guidelines Section 15183.5(b) are considered to be "qualified" for streamlining the review of GHG impacts of projects subject to the plan. If it is determined that a proposed project is not consistent with an adopted plan for reducing GHGs, further analysis would be required to determine whether the impact is significant.

The CAAP meets the requirements of CEQA Guidelines Section 15183.5(b). It is, therefore, a qualified plan that can be used to streamline the analysis of GHG impacts. If the proposed project is consistent with the CAAP, it would have a less-than-significant impact from generating GHGs. The proposed project would be consistent if it incorporates applicable GHG reduction measures included in the CAAP.

The CAAP includes 19 strategies and 33 implementation measures to reduce GHG emissions to meet the reduction targets. The CAAP was reviewed to determine which GHG reduction measures are applicable to the proposed project. These are as follows:

- T2-A: New Pedestrian Improvements - Require new development projects, residential and non-residential, to provide pedestrian improvements along street frontages; and strongly encourage connection to the nearest existing pedestrian facilities, such as sidewalks or trails. Developments shall also include internal pedestrian connections between all uses.
- T7-B: Public Vehicle Charging Stations - Create at least 20 EV charging facilities in public parking areas (City-owned lots and parking spaces) by 2030.
- E1-A: Natural Gas Reduction in New Development - Require a 50 percent reduction in natural gas consumption compared to business-as-usual in all new development through electric-only development and installation of electric or more efficient natural gas home heating and cooling systems, appliances, or water heaters. Explore implementation of an all-electric ordinance to achieve all-electric new development by 2030.
- E3-B: City 3CE Prime Participation – Switch all City electricity accounts to 3CE Prime, including Watsonville Airport.
- E4-A: Cool Roofs for New Development - Require installation of cool roof technology for new commercial, municipal, and multi-family residential projects to achieve at least 50 percent cool roofs in new development. A cool roof treatment, green space, or photovoltaic panels would qualify for compliance with this measure.
- NW1-B: Tree Planting - Continue to implement the Watsonville Urban Greening Plan, with the goal of planting 300 trees per year.

Because the proposed project is a public project, the city will be responsible for implementing the applicable reduction measures. To ensure project consistency with the CAAP measures listed above, the city will implement the following mitigation measure, and its impact from generating GHG emissions would be less than significant.

Mitigation Measure

GHG-1 Through its project development review process, the city will require that the proposed project incorporate all applicable GHG reduction measures identified in the City of Watsonville Climate Action and Adaptation Plan (CAAP). These reduction measures are anticipated to include: T2-A regarding pedestrian improvements, T7-B regarding electric vehicle charging stations, E1-A regarding reduced use of natural gas in new buildings, E3-B regarding switching the electricity account for Ramsay Park to 3CE Prime, and E4-A regarding installing cool roofs. This list may be refined pending review of detailed design and construction plans for the project. The city will ensure that all applicable reduction measures are included in the project design prior to approval of a building permit.

It should be noted that the project as designed includes a number of features that would directly or indirectly serve to reduce GHG emissions and that would be consistent with several of the applicable CAAP reduction measures listed above. These include: 1) internal pedestrian network the connects to the adjacent trail and to existing sidewalks bordering the site; 2) extensive tree plantings that will help to sequester carbon dioxide over time; 3) EV charging stations; and 4) Exploration Center improvements that include

photovoltaic solar panels, water heating panels, a living roof (a form of "cool roof" to reduce building energy demand), all electric powered facilities (eliminating using natural gas support conversion to use of electricity provided by renewable sources); and rainwater catchment system (to reduce energy demand for water pumping).

b. The CAAP is a qualified climate action plan pursuant to CEQA Guidelines Section 15183.5(b) that functions as the applicable plan for reducing GHGs. As described in the discussion above, implementing mitigation measure GHG-1 would ensure that the project is consistent with CAAP. Therefore, the project would have no impact due to a conflict with the applicable plan for reducing GHGs.

9. HAZARDS AND HAZARDOUS MATERIALS

Would the project:

		Potentially Significant Impact	Less-than-Significant Impact with Mitigation Measures 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? (28)	☐	☐	☒	☐
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? (28)	☐	☐	☒	☐
c.	Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school? (17, 28)	☐	☐	☐	☒
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, create a significant hazard to the public or the environment? (13, 14)	☐	☐	☐	☒
e.	For a project located within an airport land-use plan or, where such a plan has not been adopted, within two miles of a public airport or a public-use airport, result in a safety hazard or excessive noise for people residing or working in the project area? (15, 17, 46)	☐	☐	☐	☒
f.	Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan? (1, 2, 10)	☐	☐	☐	☒
g.	Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires? (1, 2, 10, 16)	☐	☐	☐	☒

Comments:

a. Construction of the proposed project, as well as ongoing maintenance, may involve the intermittent transport, use and disposal of potentially hazardous materials, including fuels and lubricants, paints, solvents, and other common materials. To maintain the health and safety of the public and environment during construction, any on-site hazardous materials that may be used, stored, or transported would be required to follow protocols determined by the U.S. EPA, California Department of Health and Safety, and City of Watsonville or the County of Santa Cruz. Compliance with these various regulations would ensure that the proposed project would not create a significant hazard to the

public or the environment through the routine transport, use, or disposal of hazardous materials. Consequently, associated impacts from routine transport, use, or disposal of hazardous materials would be less than significant.

b. Construction of the proposed project would require the use and possible accidental release of hazardous materials, such as paints and other solvents. However, the project would be required to comply with construction practices and best management practices to prevent, contain and/or clean-up potential spills and contamination from fuels, solvents, concrete wastes, and other potentially hazardous materials, such as asbestos-containing materials and lead-based paint. Because the use and transport of hazardous materials would be required to follow Federal, State, and local regulations, the potential impact of accidentally releasing hazardous materials would be less than significant.

c. The closest school to the project is Landmark Elementary School, which is approximately 0.25 miles southwest of the project site. However, the proposed project would not emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste.

d. The project site is not located on any list compiled pursuant to Section 65962.5 of the Government Code. The site is not located on the California Environmental Protection Agency's Cortese List (Health and Safety Code Section 25187.5). The State Water Resources Control Board's GeoTracker (Health and Safety Code Section 25295 and Water Code Sections 13273 and 13301) did not indicate any cleanup site on the project site. The project site is also not listed on the California Environmental Protection Agency's list of solid waste sites identified by the Water Board with waste constituents above hazardous waste levels outside the waste management unit (Health and Safety Code Section 116395). Therefore, implementation of the project would not create a hazard to the public or the environment and no impact would occur.

e. The project site is located approximately 1.6 miles southeast of the Watsonville Municipal Airport. The City of Watsonville City Council approved the *Watsonville Airport Master Plan* (airport master plan) on June 24, 2003, a plan that evaluated growth of the Airport through the year 2020. The City is currently undergoing an update to the airport master plan (City of Watsonville 2022). The airport master plan and associated EIR include evaluation of additional facilities and reconstruction of existing facilities in order to meet aviation demand through the planning period. The airport master plan also delineates the six safety zones surrounding the airport. The project site is not located within any safety zone associated with the airport (City of Watsonville 2003, Exhibit 13, p. 75). Furthermore, the project site is located outside of the airport noise contour map (City of Watsonville 2003, Exhibit 12, p. 69). Therefore, the proposed project would not result in safety hazards or excessive noise for people working or recreating on the project site.

f. The proposed project would not create, interrupt, or otherwise reduce the ability of streets to circulate traffic. Any need for construction-related traffic partial street closures would be temporary, intermittent, localized, and subject to standard city traffic management practices. The project would have no effect on emergency response routes.

g. The project site is an urban area of Watsonville and located in a local responsibility area (LRA) according to the CalFire Santa Cruz County Draft Fire Hazard Severity Zones in LRA map (CalFire 2007). The project is not within or adjacent to a moderate, high, or very high fire hazard severity zone and would not result in any impacts due to exposing people or structures to wildland fire.

10. HYDROLOGY AND WATER QUALITY

Would the project:

		Potentially Significant Impact	Less-than-Significant Impact with Mitigation Measures 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? (5, 18, 19, 21, 23, 28)	☐	☐	☒	☐
b.	Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin? (5, 22, 28)	☐	☐	☒	☐
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:				
	(1) Result in substantial erosion or siltation on- or off-site; (5, 23, 28)	☐	☐	☒	☐
	(2) Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site; (5, 23, 28)	☐	☐	☒	☐
	(3) Create or contribute runoff water that would exceed the capacity of existing or planned storm water drainage systems or provide substantial additional sources of polluted runoff; or (5, 23, 28, 44)	☐	☐	☒	☐
	(4) Impede or redirect flood flows? (5, 26, 28, 40)	☐	☐	☒	☐
d.	In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation? (5, 26, 28, 40)	☐	☐	☒	☐
e.	Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan? (1, 2, 23, 28, 48)	☐	☐	☐	☒

The City of Watsonville, including the project site, is located within the Pajaro River Watershed. The Pajaro River Watershed is a 1,300-square-mile watershed and the project site is within the Pajaro Valley region at the far western portion of the watershed. The Pajaro Valley region encompasses the City of Watsonville and parts of Santa Cruz and Monterey counties. The Pajaro Valley Water Management Agency (PVWMA), the San Benito County Water District, and the Santa Clara Valley Water District entered into a Memorandum of Understanding for the purpose of coordinating water resources planning and implementation activities in the Pajaro River Watershed. The three agencies, collectively known as the Pajaro River Watershed Collaborative, led to the development and implementation of the Pajaro River Watershed Integrated Regional

Water Management Plan (IRWMP). The IRWMP addresses water supply, water quality, flood management, and environmental enhancement challenges within the watershed (Pajaro River Watershed Collaborative 2019).

Water quality in Watsonville is regulated by the Central Coast Regional Water Quality Control Board (RWQCB) and its Water Quality Control Plan (basin plan). The basin plan contains water quality standards and identifies beneficial uses (wildlife habitat, agricultural supply, fishing, etc.) for receiving waters along with water quality criteria and standards necessary to support these uses consistent with federal and State water quality laws. Section 303(d) of the 1972 Federal Clean Water Act requires states to identify water bodies that do not meet water quality objectives and are not supporting their beneficial uses. The RWQCB maintains a list of impaired water bodies and the identified pollutant/stressors. The Watsonville Slough, which sits adjacent to the project site, is listed as impaired due to pathogens, pesticides, turbidity, and low dissolved oxygen (California Water Resources Control Board 2021).

Comments:

a. **Construction-Related Water Quality Impacts.** Construction-related runoff pollutants are typically generated from soil destabilization areas, waste and hazardous materials handling or storage areas, outdoor work areas, material storage areas, and general maintenance areas (e.g., vehicle or equipment fueling and maintenance, including washing). The proposed project's construction phase could result in water quality impacts to Watsonville Slough, or other downstream receiving waters, if construction-related sediments or pollutants are not controlled.

Construction-related activities could result in sediment releases if previously stabilized soils are mobilized by rainfall/runoff and wind. This could result during removal of vegetation from the site, grading the site, and trenching for infrastructure improvements. Environmental factors that affect erosion include topographic, soil, and rainfall characteristics.

Non-sediment-related pollutants that may be of concern during construction involve construction materials (e.g., paint and stucco), chemicals and petroleum products used during heavy equipment maintenance, and concrete or curing residues. Such pollutants can enter the drainage system by rainfall/runoff or spills. Construction-related activities of the proposed project could generate pollutants that could adversely affect the water quality of downstream receiving waters if appropriate management measures are not used.

Construction projects of one acre or more (like the proposed project) are regulated under the Statewide General Construction Permit (GCP), Order No. 2012-0006-DWQ, issued by the State Water Resources Control Board (SWRCB) in 2012. To minimize these potential impacts, the proposed project will be required to comply with the GCP as well as prepare a Storm Water Pollution Prevention Plan (SWPPP) that requires the incorporation of Best Management Practices (BMPs) to control sedimentation, erosion, and hazardous materials contamination of runoff during construction. The GCP also

requires that prior to the start of construction activities, the project applicant must file Permit Registration Documents (PRDs) with the SWRCB, which includes a Notice of Intent (NOI), risk assessment, site map, annual fee, signed certification statement, SWPPP, and post-construction water balance calculations.

The proposed project's construction contractor would be required to prepare and implement an SWPPP and associated BMPs in compliance with the GCP during grading and construction. The SWPPP would specify BMPs that the construction contractor would implement to protect water quality by eliminating and/or minimizing stormwater pollution prior to and during grading and construction. Additionally, the City Municipal Code (Chapter 6, Excavations, Grading, Filling and Erosion Control), requires an erosion control plan be prepared as a part of the grading plan. The erosion control plan shall show the runoff comparison within and without the project.

Adherence to the BMPs in the SWPPP and the preparation of an erosion control plan would reduce, prevent, minimize, and/or treat pollutants and prevent the degradation of downstream receiving waters. BMPs identified in the SWPPP would reduce or avoid contamination of stormwater with sediment and other pollutants such as trash and debris, oil, grease, fuels, and other toxic chemicals, paint, concrete, asphalt, and bituminous91 materials.

With the implementation of the GCP and Municipal Code requirements, water quality and waste discharge impacts from project grading and construction activities would be less than significant.

Operation-Related Water Quality Impacts. Operational-related activities of the proposed project (e.g., runoff from parking areas, solid waste storage areas, and landscaped areas) could generate pollutants that could adversely affect the water quality of downstream receiving waters if effective measures are not implemented. The Phase II Small Municipal Separate Storm Sewer System General Permit (MS4) regulates discharges from municipal storm drain systems with populations less than 100,000. The regulation requires the City to oversee a variety of activities within the city, including public education about pollution prevention, good housekeeping for municipal projects, and implementation of best management practices throughout the city (City of Watsonville – Public Works & Utilities 2021).

In addition to the NPDES permit requirements, the City's Low Impact Development (LID) ordinance became effective in 2014. The ordinance requires post construction measures for managing storm runoff from new development and redevelopment projects by incorporating the Stormwater Post-Construction Requirements (PCR) into the Public Improvement Standards.

With the implementation of these site design, source control, treatment control, and LID features, as well as compliance with the City and MS4 permit requirements, no significant water quality or waste-discharge impacts from project operation activities would occur and impacts would be less than significant.

b. The project site is within the Pajaro Valley Groundwater Basin, which is managed by the PVWMA. To meet the California's AB 3030 Groundwater Management Act, the PVWMA adopted a Basin Management Plan Update in 2014. The purpose of the Basin Management Plan Update is to define the appropriate course of action toward optimizing the use of available supplies and solving seawater intrusion and overdraft problems in the basin.

According to the City's 2020 Urban Water Management Plan, 14 groundwater wells provide an average of 7,000 acre-feet per year (AFY) and have a capacity of 21,000 AFY throughout the groundwater basin. The City estimates that water demands in its service area for normal years would increase from approximately 7,827 AFY in 2025 to approximately 8,504 AFY in 2045 (Table 7-2, 2020 Urban Water Management Plan). The City forecasts that it will have sufficient water supplies to meet water demands in its service area for normal, single-dry, and multiple dry years. Projected populations in the City's service area were based on projections obtained from the City's 2015-2023 Housing Element, the U.S. Census Bureau, and City-developed data (City of Watsonville 2021, p. 3-13 – 3-14). This data incorporates demographic trends, existing land use, and general plan land use policies. Therefore, development of the proposed project has been accounted for in the City's estimates of future water demands. Project water demands would not substantially deplete groundwater supplies.

Additionally, the project site is currently developed with impervious surfaces. The proposed project would include a bioretention garden in the renovated southern parking lot. Most of the stored stormwater runoff will be infiltrated into the ground and contribute to groundwater recharge. Therefore, the proposed project would not substantially interfere with groundwater recharge and impacts would be less than significant.

c. (1) The proposed project includes importing approximately 6,000 cubic feet of soil associated with modifying the slope of the soccer fields. Grading and soil exposure during construction could result in erosion and/or siltation if not controlled. To minimize this potential impact, the project would be required to comply with all of the requirements of the State GCP, including preparation of a SWPPP prior to the start of construction activities. The SWPPP includes BMPs for runoff, erosion, and sediment transport as discussed above in Section 10.a.

Compliance with the GCP and implementation of the BMPs in the SWPPP would reduce, prevent, or minimize soil erosion from project-related grading and construction activities. Therefore, project-related construction activities would not result in substantial erosion or siltation on- or off-site and impacts would be less than significant. Implementation of the BMPs specified in the Stormwater Quality Control Plan as required for compliance with the PCRs would direct stormwater runoff into existing stormwater drainage throughout the park site while adding a new bioretention garden in the renovated southern parking lot, with subsequent infiltration into the soil, thus eliminating the potential for erosion and siltation downstream.

(2) The City will not grant final project approval for the project until it has been determined that the Stormwater Quality Control Plan for the project meets the requirements detailed in the City's PCR ordinance. The project must also comply with the Municipal Phase II MS4 Permit. Post-development runoff will be addressed by the site BMPs and a bioretention area in the southeastern corner of the park site and will not exceed the capacity of existing or planned stormwater drainage systems or substantially alter the existing drainage pattern of the project in a manner that would result in flooding on- or off-site. Therefore, flooding impacts would be less than significant.

(3) The proposed project involves construction on an existing developed park that is currently connected to the City's storm drain system. The proposed project would result in a reduction in the amount of surface runoff from the property by the installation of an on-site bioretention areas and infiltration of runoff into the soil. Therefore, the capacity of the existing storm drain system would not be exceeded with implementation of the proposed project. Also, BMPs will be implemented across the project site during both construction and operation. These BMPs will control and prevent the release of sediment, debris, and other pollutants into the storm drain system. Implementation of BMPs during construction will be in accordance with the provisions of the SWPPP. Operational BMPs will meet the requirements of the Municipal Phase II MS4 Permit and the City's PCR ordinance. The bioretention area installed within the project site will reduce the volume and improve the quality of stormwater runoff from the site. With implementation of these BMPs in accordance with State and City requirements, the potential impact on water quality will be less than significant.

(4) The eastern portions of the park, including portions of the existing soccer fields sloping towards Watsonville Slough, are within either an 0.2 percent annual chance flood hazard area or Zone AE as designated by the Federal Emergency Management Agency (FEMA). No physical improvements are proposed in the designated flood zone. Only portions of the new soccer fields and trail system along Watsonville Slough would fall within the designated flood zone. Figure 13, Project Site Flood Map, provides an overview of the project site with a FEMA flood zone overlay.

In accordance with city code Title 9, Planning & Zoning, Chapter 2, Floodplain Management, the proposed park improvements will be required to comply with Section 9-2.500 "Standards for construction" including for nonresidential construction. Ultimately a floodplain development permit will need to be obtained before construction or other development begins within any area of special flood hazard established in city code section 9-2.301. A 2022 *Regulatory Floodway Evaluation* was prepared for the proposed project by Schaaf & Wheeler to address potential floodway hazards on the park site. As noted in this floodway evaluation, Watsonville Municipal Code Section 9-2.505 provides requirements for development within a regulatory floodway. Since floodways are extremely hazardous areas due to the velocity of floodwaters which carry debris, potential projectiles, and erosion potential, Watsonville's municipal code is like many other municipal codes regarding the regulation of development to which the following provisions apply:

a. Until a regulatory floodway is adopted, no new construction, substantial development, or other development (including fill) shall be permitted within Zones A1-30 and AE, unless it is demonstrated that the cumulative effect of the proposed development, when combined with all other development, will not increase the water surface elevation of the base flood more than one foot at any point within the City of Watsonville.

b. Within an adopted regulatory floodway, the City of Watsonville shall prohibit encroachments, including new fill, new construction, substantial improvements, and other development, unless certification by a registered civil engineer is provided demonstrating that the proposed encroachment shall not result in any increase in flood levels during occurrence of the base flood discharge.

A regulatory floodway is adopted along Watsonville Slough and proposed park improvements would be located entirely outside of the floodway. Since fill placed to construct the soccer field would be placed in an area with relatively little flow conveyance capacity – that is, more of a backwater area – the blockage of flood flow is anticipated to have a relatively minor impact (Schaaf & Wheeler, 2022, p. 3). Therefore, the proposed project would not impede or redirect flood flows and no impact would occur.

d. As mentioned above, a portion of the site is in a special flood hazard area subject to inundation by the 100-year flood. For any structure within a special hazard zone, materials and equipment shall be managed in line with city code Section 9-2.502 as follows:

a. The storage or processing of materials which in time of flooding are buoyant, flammable, explosive, or could be injurious to human, animal, or plant life shall be prohibited.

b. The storage of other materials or equipment may be allowed if not subject to major damage by floods and if firmly anchored to prevent flotation or if readily removable from the area within the time available after a flood warning.

Adherence to city code standards would reduce the impact related to the release of pollutants to less than significant.

A seiche is an oscillating surface wave in a restricted or enclosed body of water, generated by ground motion, usually during an earthquake. Seiches are of concern for water storage facilities, because inundation from a seiche can occur if the wave overflows a containment wall, such as the wall of a reservoir, water storage tank, dam, or other artificial body of water. There are no adjacent enclosed bodies of water that would pose a flood hazard to the site due to a seiche. The proposed project is not at risk of inundation by seiche.



0 400 feet

Project Site

Zone X (0.2-percent-annual-chance flood)

Zone AE (1-percent annual chance flood)

Source: Santa Cruz County GIS 2021, Google Earth 2022, FEMA Flood Hazard Map 2022

Figure 13

FEMA Flood Hazards Map

Ramsay Park Renaissance Project Initial Study

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Tsunamis are a type of earthquake-induced flooding produced by large-scale sudden disturbances of the sea floor. Tsunami waves interact with the shallow sea floor when approaching a landmass, resulting in an increase in wave height and a destructive wave surge into low-lying coastal areas. The proposed project is approximately 4.3 miles inland from the Pacific Ocean. Therefore, the site is outside the tsunami hazard zone as designated by the California Office of Emergency Services and would not be affected by a tsunami.

Additionally, the proposed site is not within a dam inundation area and would not be affected by dam failure. Therefore, the proposed project would not release pollutants as the result of floods, tsunami, or seiche and impacts would be less than significant.

e. The city is within the jurisdiction of the Central Coast RWQCB and its basin plan. As discussed under checklist question "a" above, the proposed project will not violate any water quality standards and, therefore, would not obstruct the implementation of the basin plan. Also, the proposed project would not conflict or obstruct the implementation of the IRWMP. Therefore, the proposed project would result in no impacts as a result of a conflict with or obstruction to implementation of a water quality control plan.

The Pajaro Valley Groundwater Basin is managed by the PVWMA as described in the *Pajaro Valley Basin Management Plan Groundwater Sustainability Update 2022*, which was adopted by PVWMA and submitted to the State Department of Water Resources for approval in December 2021 (PVMA 2021). As discussed under checklist question "b" the proposed project will not decrease groundwater supplies nor interfere substantially with groundwater recharge and would therefore not impact the implementation of the PVWMA's recently adopted sustainable groundwater management plan. Therefore, the proposed project would result in no impacts as a result of a conflict with or obstruction to implementation of a sustainable groundwater management plan.

11. LAND USE AND PLANNING

Would the project:

		Potentially Significant Impact	Less-than-Significant Impact with Mitigation Measures Incorporated	Less-Than-Significant Impact	No Impact
a.	Physically divide an established community? (1, 28)	☐	☐	☐	☒
b.	Cause any 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? (1, 2, 3, 4, 28)	☐	☐	☐	☒

Comments:

a. The proposed park improvements would occur on a site that is currently developed with an existing park and would retain the existing roadway patterns, and would not introduce any new major roadways or other physical features through existing residential neighborhoods or other communities that would create new barriers, the project would not physically divide an established community.

b. The proposed project does not include any modification to the existing general plan land use designation or the zoning district for the existing Ramsay Park site. The proposed project includes park improvements within the existing developed footprint of Ramsay Park. As such, the project would be considered consistent with both the General Plan land use designation and zoning of the site. Therefore, the project would not cause a significant environmental impact due to a conflict with applicable land use plans, policies, or regulations adopted for the purpose of avoiding or mitigating environmental effects.

12. MINERAL RESOURCES

Would the project:

		Potentially Significant Impact	Less-than-Significant Impact with Mitigation Measures Incorporated	Less-Than-Significant Impact	No Impact
a.	Result in loss of availability of a known mineral resource that would be of value to the region and the residents of the state? (24, 25)	☐	☐	☐	☒
b.	Result in the loss of availability of a locally important mineral resource recovery site delineated in a local general plan, specific plan, or other land-use plan? (24, 25)	☐	☐	☐	☒

Comments:

a-b. The State of California Division of Mines and Geology's Mineral Land Classification Map indicates the project site is located in Mineral Resource Zone- 1 (MRZ-1). Areas classified MRZ-1 are areas where there is adequate information that indicates no significant mineral deposits are present, and that there is little likelihood that mineral deposits would be found. Therefore, there would be no loss of availability of known mineral resources or locally important mineral resource recovery sites as a result of the proposed project.

13. NOISE

Would the project result in:

		Potentially Significant Impact	Less-than-Significant Impact with Mitigation Measures 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 in applicable standards of other agencies? (1, 2, 5, 27, 29, 31, 51)	☐	☒	☐	☐
b.	Generation of excessive ground-borne vibration or ground borne noise levels? (1, 2, 5, 27, 30, 32)	☐	☐	☐	☒
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-use airport, expose people residing or working in the project area to excessive noise levels? (1, 2, 5, 15)	☐	☐	☐	☒

Comments:

a. **Sensitive Receptors.** On-site noise-generating activities associated with the project would include short-term construction as well as long-term operational noise associated with night time use of the soccer fields. Certain land uses are particularly sensitive to noise and vibration. These uses include residences, schools, hospital facilities, houses of worship, and open space/recreation areas where quiet environments are necessary for the enjoyment, public health, and safety of the community. The project site is a recreation area and is primarily in the vicinity of commercial and residential. In addition to the park itself, the nearest sensitive receptors are residences located north across Main Street and south across Harkins Slough Road.

Noise Standards (General Plan). The City of Watsonville has adopted a Noise and Land Use Compatibility standards as part of their Public Safety Element of the 2005 Genera Plan. Goal 12.8, Noise Hazard Control, is to evaluate new and existing land uses in the city for compatibility related to noise effects and require, as appropriate, mitigation where harmful effects can be identified, and measurable improvement will result. Policy 12.M, Noise, states that the City shall utilize land use regulations and enforcement to ensure that noise levels in developed areas are kept at acceptable levels, and that future noise-sensitive land uses are protected from noise that is harmful.

The Public Safety Element also identifies the City's noise compatibility guidelines for different land uses. According to Figure 12-6 of the General Plan (see Figure 4-5), the normally acceptable noise limit for single family residential land uses is 60 Community Noise Equivalent Level (CNEL), for lodging land uses 65 CNEL, and for office and other commercial land uses 75 CNEL.

Municipal Code Standards. To implement the City's noise policies, the City adopted Chapter 8, Noise, in Title 5, Public Welfare, Morals, and Conduct, of the municipal code. Municipal Code Chapter 5-8 prohibits specific types of noises, such as continuous or unusually loud noise that disturbs residential property or public ways within the city. Specifically, it is unlawful for any person to generate noise which either annoys, disturbs, injures, or endangers the comfort, repose, health, peace, or safety of others on residential property or public ways within the city, including, but not limited to:

- The use of radios, music instruments, stereos, televisions, or other similar devices that disturb the peace and quiet of neighboring residential inhabitants, including the use of such devices between the hours of 10:00 p.m. and 7:00 a.m. that are plainly audible at a distance of 50 feet from the structure in which the device is located (WMC Section 5-8.02(a)).
- Yelling, shouting, hooting, whistling, or singing originating from any residential property or upon any public way at any time so as to annoy or disturb the quiet comfort and repose of nearby persons (WMC Section 5-8.02(c)).

The municipal does not establish quantified noise standards; therefore, for the purposes of this initial study analysis, the Santa Cruz County Code is used. The County of Santa Cruz enforces noise standards through County Code Chapter 8.30, Noise. The county sets a noise standard of 75 dBA during the daytime (8:00 a.m. – 10:00 p.m.) and 60 dBA during the nighttime (10:00 p.m. – 8:00 a.m.).

Construction Noise (Short-Term). Construction is anticipated to last approximately 18 months. Construction activity is proposed to occur during daytime hours. Each phase will use a variation of construction equipment/equipment mix with associated noise levels. The use of pile driving is not anticipated. Project construction would require the use of heavy-duty construction equipment that could temporarily increase noise levels at adjacent property lines near work areas. The type of equipment used would include bulldozers, backhoes, a grader, a scraper, compactors/rollers, small cranes, and material handlers, lifts, and trucks. Table 4, Typical Construction Equipment Noise Levels (dBA), presents the estimated, worst-case noise levels that could occur from operation of typical construction equipment used to develop the project.

The worst-case L_{eq} noise levels associated with the operation of a bulldozer and scraper are predicted to be approximately 81 and 82 dBA, respectively, at a distance of 50 feet from the equipment operating area. At an active construction site, it is not uncommon for two or more pieces of construction equipment to operate at the same time and in close proximity. A single bulldozer provides a sound level of 81 dBA L_{eq} at a distance of 50 feet; when two identical sound levels are combined, the noise level increases to 84 dBA L_{eq} and when three identical sound levels are combined, the noise level increases to 86 dBA L_{eq}. These estimates assume no shielding or other noise control measures are in place at or near the work areas. These maximum noise levels would occur for a short period time; as demolition, site preparation, and grading is completed.

Table 4 Typical Construction Equipment Noise Levels (dBA)

Equipment	Reference Noise Level at 50 Feet (L_{max})[1]	Percent Usage Factor[2]	Predicted Noise Levels (L_{eq}) at 50 Feet
Bulldozer	85	40	81
Backhoe	80	40	76
Compact Roller	80	20	73
Concrete Mixer	85	40	81
Crane	85	16	77
Excavator	85	40	81
Generator	82	50	79
Pneumatic Tools	85	50	82
Scraper	85	40	82
Delivery Truck	85	40	81

SOURCE: Caltrans 2013; FHWA 2017.

NOTE: 1. Lmax noise levels based on manufacturer's specifications.
2. Usage factor refers to the amount of time the equipment produces noise over the time period.

The noise generated from project construction would be temporary and would not produce the same sound levels every day. In addition, the City does not maintain numeric thresholds for the purposes of evaluating construction noise level. Neither the General Plan nor the Municipal Code specify a noise level for construction activities. Project construction noise, therefore, would not exceed an applicable standard and would not result in a significant impact. Nonetheless, noise levels of 85 dBA L_{eq} on an hourly basis are typically considered intrusive and would have the potential to interfere with the quiet, comfort, and use of adjacent, exterior residential areas, particularly the residential areas south of the site (across Harkins Slough Road) and north of the site (across Main Street). The City will require the implementation of Best Management Practices (BMPs) as conditions of project approval to reduce the potential for construction noise levels to annoy and intrude upon adjacent residential areas. These BMPs outlined in Mitigation Measure N-1 would reduce construction noise levels and provide a mechanism for responding to construction noise complaints, thereby ensuring project construction would not result in a substantial, temporary increase in noise levels.

Mitigation Measure

N-1 The City of Watsonville Parks & Community Services shall incorporate the following construction noise best management practices into all applicable project bid, design, and engineering documents:

1. Construction work hours shall be limited to the hours of 7:00 AM to 7:00 PM (Monday-Friday), 10 AM to 4 PM (Saturday), and no construction activities permitted on Sundays.

2. The sign shall also provide a contact name and phone number for the job site and the project's representative for addressing noise concerns.

3. Heavy equipment engines shall be covered and exhaust pipes shall include a muffler in good working condition.

4. Stationary equipment such as compressors, generators, and welder machines shall be located as far away from surrounding residential land uses as possible. The project shall connect to existing electrical service at the site to avoid the use of stationary, diesel- or other alternatively-fueled power generators, if feasible.

5. Impact tools such as jack hammers shall be hydraulically or electrically powered wherever possible to avoid noise associated with compressed air exhaust from pneumatically powered tools. When use of pneumatic tools is unavoidable, it shall be ensured the tool will not exceed a decibel limit of 85 dBA at a distance of 50 feet. Pneumatic tools shall also include a noise suppression device on the compressed air exhaust.

6. No radios or other amplified sound devices shall be audible beyond the property line of the construction site.

7. Prior to the start of any construction activity, the City Public Works Department shall prepare a Construction Noise Complaint Plan that identifies the name and/or title and contact information (including phone number and email) of the Public Works-representative(s) responsible for addressing construction-noise related issues and details how the City and its construction contractor(s) will receive, respond, and resolve to construction noise complaints. At a minimum, upon receipt of a noise complaint, the City and/or contractor representative identified in the Plan shall identify the noise source generating the complaint, determine the cause of the complaint, and take steps to resolve the complaint.

Operational (Long-Term) Noise. Long-term (i.e., operational) noise associated with the project would include continued recreation activities throughout the existing park. Access to Ramsay Park is limited to sunrise to sunset except for those city-approved activities which would take place under field lighting at the soccer fields and multi-use field till 11:00 P.M. The majority of proposed park improvements would generate noise consist with existing uses at the park. However, new operational noise sources as a result of the proposed project would include noise generated by park users and attendees of night time events at the soccer fields at the north end of the park which would feature new field lighting.

Noise levels associated with youth and recreational level sporting events are generally limited to those associated with human voices, typically clapping and cheering (screaming) from spectators. In order to assess noise levels and potential impacts to nearby sensitive receptors that could occur as a result of the addition of sports field lighting and spectator seating at the soccer fields, WJV Acoustics conducted a preliminary noise assessment using applicable city and Santa Cruz County noise standards and existing noise levels and traffic counts in the vicinity of the project site (see Appendix C for the preliminary noise assessment for a summary of city and county noise standards).

Noise levels associated with spectators and sporting activities of this magnitude typically produce noise levels in the range of approximately 45 to 55 dB Leq at a distance of 100 feet. The closest residential land uses to the project site are located a distance of approximately 400 feet north of the soccer fields. At this distance, noise levels associated with the sport activities (clapping, cheering, yelling of spectators and athletes) would be expected to be approximately 33-43 dB Leq. Additionally, sports-field related noise levels would be expected to be in the range of approximately 25-35 dB L_{eq} at the residential land uses south of the project, along Harkins Slough Road. Such levels would be below the Santa Cruz County daytime (50 dB L_{eq}) or nighttime (45 dB L_{eq}) noise level standards for stationary noise sources. The City does not provide noise standards for stationary noise sources; however, Santa Cruz County does provide stationary noise standards that could be reasonably applied to the project.

Based on an assessment of hourly traffic noise levels conducted by WJV Acoustics at the residential land uses located along Longview Drive (approximately 56 dB L_{eq} between the hours of 10:00 p.m. to 11:00 p.m.), noise levels associated with proposed nighttime activities Ramsay Park would not be expected to exceed existing (without project) noise levels in the vicinity of the residences. It can therefore be reasonably assumed that mitigation measures would not be required for compliance with local noise standards and that project implementation would not result in noise levels exceeding existing ambient noise levels in the project vicinity (WJV Acoustics 2022).

b. Groundborne vibration (from the use of heavy equipment or other activities) dissipates relatively rapidly through soils. The major concern with regard to construction vibration is related to building damage. The potential for groundborne vibration is typically greatest when vibratory or large equipment such as rollers, impact drivers, or bulldozers are in operation. For the proposed project, the largest earthmoving equipment would primarily operate during demolition, site preparation, grading, and paving work. This equipment would, at worst-case and for limited periods of time, operate adjacent to the site's property lines and within approximately 300 feet of the multi-family residences located adjacent to the project site north of the site across Main Street; however, most site work would occur at least 50 feet or more from project property lines. Table 5, Potential Groundborne Vibration Levels, lists the typical vibration levels generated by the type of heavy-duty construction equipment most likely to be used during project construction, as well as the estimated vibration levels at distances of 25 feet, 50 feet, 100 feet, and 400 feet from the project site.

Table 5 Potential Groundborne Vibration Levels

Equipment	Peak Particle Velocity[1] (Inches/Second) at Distance			
	25 Feet	50 Feet	100 Feet	400 feet
Vibratory Roller	0.21	0.085	0.035	0.006
Large Bulldozer	0.089	0.036	0.015	0.002
Small Bulldozer	0.03	0.012	0.005	0.001
Loaded Truck	0.076	0.031	0.013	0.002
Jackhammer	0.035	0.014	0.006	0.001

SOURCE: Caltrans 2020; FTA 2018

NOTE: 1. Estimated PPV calculated as: PPV(D)=PPV(ref*(25/D^1.3 where PPV(D)= Estimated PPV at distance; PPVref= Reference PPV at 25 ft; D= Distance from equipment to receiver; and n= ground attenuation rate (1.3 for competent sands, sandy clays, silty clays, and silts).

Potential construction vibration levels would not result in structural damage because the estimated vibration levels are substantially below Caltrans' thresholds for potential damage to even the most sensitive of residential buildings (0.50 inches/second for older, un-reinforced concrete masonry buildings or historic buildings). Thus, short-term, intermittent construction equipment vibration levels would not be excessive.

In addition, once operational, the proposed project would not result in the operation of sources that would generate substantial groundborne vibration levels. Therefore, the proposed project would result in no impacts associated with groundborne vibration

c. As noted in Section D.9, Hazards and Hazardous Materials under checklist question "e," the project site is located approximately 1.6 miles southeast of the Watsonville Municipal Airport. However, the project site is located outside of the airport noise contour map for the year 2020 as established in the 2003 *Watsonville Airport Master Plan* (City of Watsonville 2003, Exhibit 12, p. 69). Therefore, the proposed project would not expose people residing or working in the project area to excessive noise impacts associated with proximity to a public airport.

14. POPULATION AND HOUSING

Would the project:

		Potentially Significant Impact	Less-than-Significant Impact with Mitigation Measures Incorporated	Less-Than-Significant Impact	No Impact
a.	Induce substantial unplanned population growth in an area, either directly (e.g., by proposing new homes and businesses) or indirectly (e.g., through extension of roads or other infrastructure)?	☐	☐	☐	☒
b.	Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?	☐	☐	☐	☒

Comments:

a. The proposed project is anticipated to generate only one (1) additional employee of the City's Parks and Community Services Department and Public Works & Utilities who operate and maintain the existing Ramsay Park facilities. Therefore, the proposed project would not induce substantial unplanned population growth.

b. Implementation of the project would not displace people or housing.

15. PUBLIC SERVICES

Would the project result in substantial adverse physical impacts associated with the provision of or 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 following public services:

	Potentially Significant Impact	Less-than-Significant Impact with Mitigation Measures Incorporated	Less-Than-Significant Impact	No Impact
a. Fire protection?	☐	☐	☐	☒
b. Police protection?	☐	☐	☐	☒
c. Schools?	☐	☐	☐	☒
d. Parks?	☐	☐	☐	☒
e. Other public facilities?	☐	☐	☐	☒

Comments:

a-e. The proposed project consists of improvements to an existing park, and would not result in physical impacts associated with the provision of or 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, police protection, schools, other parks, or other public facilities.

16. RECREATION

		Potentially Significant Impact	Less-than-Significant Impact with Mitigation Measures 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? (3, 4)	☐	☐	☐	☒
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? (3, 4)	☐	☒	☐	☐

Comments:

a, b. A significant impact would occur if the project increased the use of existing neighborhood and/or regional parks or other recreational facilities so as to accelerate or induce their physical deterioration. The proposed project would introduce improvements to the existing approximately 26-acre Ramsay Park intended to serve residents of the city. Thus, the project would improve recreational services available in the community. All environmental impacts that would occur as a result of the project are analyzed throughout this initial study. Significant, or potential significant, impacts are identified within this initial study, and each are mitigated to a less less-than-significant level.

17. TRANSPORTATION

Would the project:

		Potentially Significant Impact	Less-than-Significant Impact with Mitigation Measures Incorporated	Less-Than-Significant Impact	No Impact
a.	Conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities? (17, 28)	☐	☐	☐	☒
b.	Conflict or be inconsistent with CEQA guidelines section 15064.3, subdivision (b)? (28)	☐	☐	☐	☒
c.	Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)? (28)	☐	☐	☐	☒
d.	Result in inadequate emergency access? (28)	☐	☐	☐	☒

Comments:

a. The project would have an impact if proposed improvements reduce the availability or efficiency of facilities providing alternative transportation, including bus systems, bicycle routes, and pedestrian walkways. The project would generate temporary construction traffic, which would cease upon completion of construction. The project consists of a series of improvements at the existing park. The project would include improvements to existing parking lots at the north (off Main Street) and south (off Harkins Slough Road) areas of the park site as well as the addition of a small parking lot at the northeastern corner of the existing park site off Main Street. Visitors to the park would continue to have access to the existing parking lots along with the new parking lot off Main Street. In addition, proposed project improvements associated with the Main Street frontage, including a new parking lot off Main Street, will require the redesign of the multi-use path off Main Street to provide a pedestrian connection to the new parking lot. Limitations to this pedestrian access, if any, would be short-term during construction activities and access will resume immediately upon completion of construction activities. Accordingly, the project would not conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities.

b. The Office of Planning and Research (OPR) Technical Advisory for evaluating vehicle miles travelled (VMT) recommends that projects generating or attracting fewer than 110 trips per day generally may be assumed to cause a less-than-significant VMT impact. The proposed project consists of improvements to an existing park, and does not increase the size of the park. As such, the proposed project would not result in additional vehicle trips. Therefore, the proposed project would have no VMT impact and therefore, would not conflict or be inconsistent with CEQA guidelines section 15064.3, subdivision (b).

c. The proposed project consists of improvements to an existing park and would not increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment).

d. The proposed project consists of improvements to an existing park, which retains all of the existing park accesses. Therefore, the proposed project would not result in inadequate emergency access.

18. TRIBAL CULTURAL RESOURCES

Would the project:

		Potentially Significant Impact	Less-than-Significant Impact with Mitigation Measures Incorporated	Less-Than-Significant Impact	No Impact
a.	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, or 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:				
	(1) 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 (68)	☐	☒	☐	☐
	(2) 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 Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe. (68)	☐	☒	☐	☐

Comments:

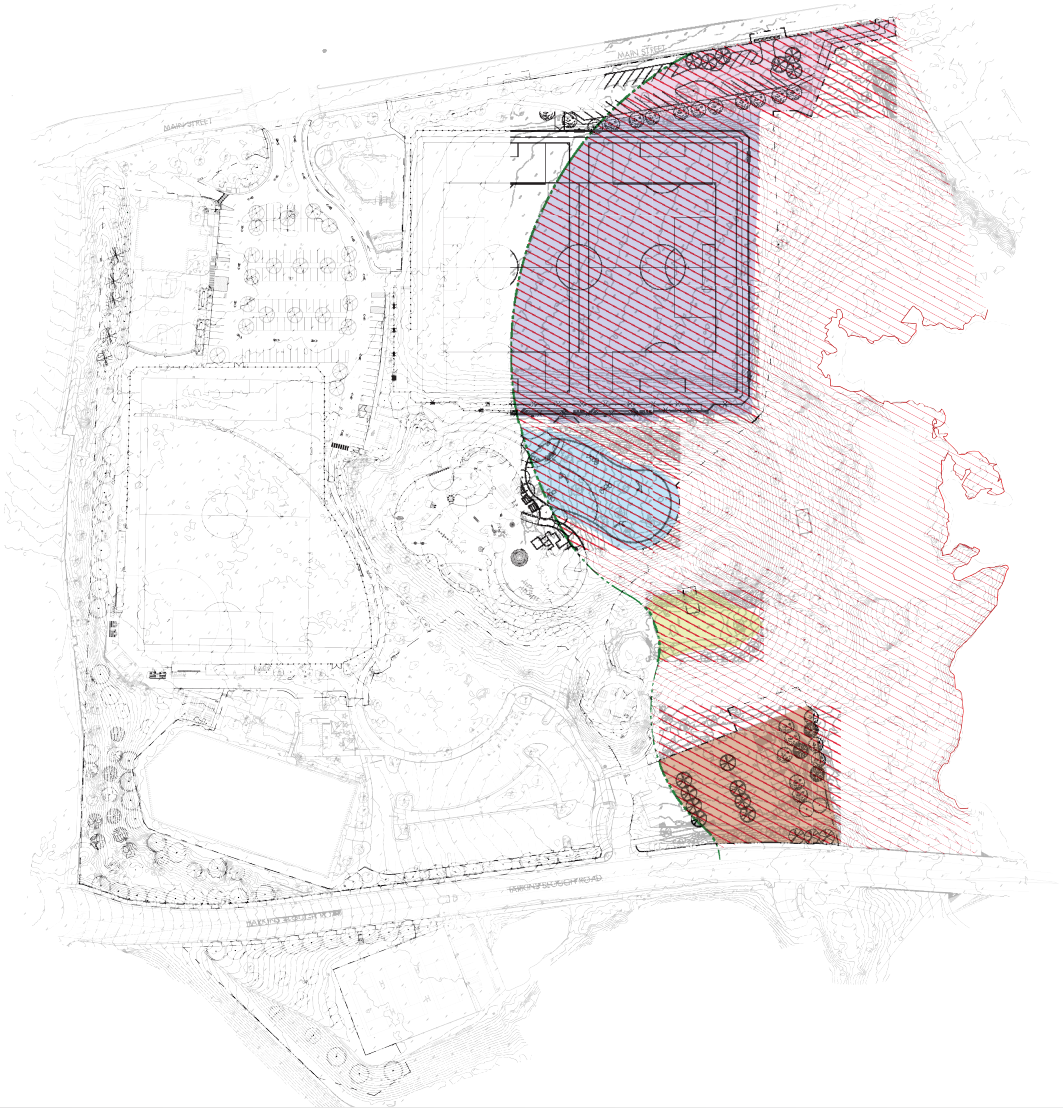
a. (1, 2) The CEQA statute as amended by Assembly Bill 52 (AB 52) (Public Resources Code Sections 21073 and 21074) defines "tribal cultural resources", and "California Native American tribe" as a Native American tribe located in California that is on the contact list maintained by the Native American Heritage Commission. Public Resources Code Section 21080.3.1 outlines procedures for tribal consultation as part of the environmental review process. On January 14, 2022, the City sent an offer of consultation letter to the tribal representatives of the Amah Mutsun Tribal Band, the Amah Mutsun Tribal Band of Mission San Juan Bautista, the Costanoan Ohlone Rumsen-Mutsun Tribe, the Indian Canyon Mutsun Band of Costanoan, Muwekma Ohlone Indian Tribe of the SF Bay Area, and the Ohlone/Costanoan-Esselen Nation.

On January 17, 2022, a tribal representative for the Amah Mutsun Tribal Band provided a response to the City's offer for consultation requesting that the construction crews of the project to be aware of the potential for discovering archaeological resources at the project and that they report any such findings to the City. In addition, a tribal monitor be used for all ground disturbance work within 400-feet of Watsonville Slough's approximate wetland edge. Subsequently, City staff and Verde Design worked to develop a plan to address the request of the Amah Mutsun tribal representative. This plan is reflected in

Figure 14, Cultural Resources Plan, which shows those project improvements falling within 400-feet of the Watsonville Slough's approximate wetland edge. Implementation of this plan developed by City staff and the tribal representative for the Amah Mutsun Tribal Band, as reflected in Mitigation Measure TRC-1 below, along with mitigation measures CR-1 through CR-3 discussed in Section D.5, Cultural Resources, shall ensure that impacts associated with the inadvertent discovery of tribal cultural resources as a result of the proposed project.

Mitigation Measure

TRC-1 Prior to issuance of any grading permits, the City shall ensure an Amah Mutsun Tribal Band monitor is retained to be on-site for all ground disturbing work within 400-feet of Watsonville Slough's approximate wetland edge as reflected in the Cultural Resources Plan prepared in consultation with the Amah Mutsun Tribal Band.



CULTURAL RESOURCE LEGEND

SYM	DESCRIPTION
	LIMIT OF WORK
	9.0 CONTOUR PROVIDED IN SURVEY DATA / APPROXIMATE WETLAND EDGE
	400' OFFSET FROM WATER EDGE
	CULTURAL RESOURCES AREA OF INTEREST
	DEVELOPMENT WITHIN CULTURAL RESOURCE OF INTEREST - NEW MAIN STREET PARKING LOT
	DEVELOPMENT WITHIN CULTURAL RESOURCE OF INTEREST - SOTOMAYOR SOCCER FIELD
	DEVELOPMENT WITHIN CULTURAL RESOURCE OF INTEREST - DOG PARK
	DEVELOPMENT WITHIN CULTURAL RESOURCE OF INTEREST - EXPLORATION CENTER
	DEVELOPMENT WITHIN CULTURAL RESOURCE OF INTEREST - SOUTH PARKING LOT

IMPROVEMENT AREAS

NEW MAIN STREET PARKING LOT
- VEHICULAR ASPHALT AND CONCRETE PAVING FOR PARKING LOT AND PEDESTRIAN CIRCULATION
- PARKING LOT LIGHTING WITH FOUNDATION ± 14' DEEP x 3' DIAMETER
- TREE PLANT PITS

SOTOMAYOR SOCCER FIELD
- RENOVATION OF EXISTING FIELD
- RAISE EAST END OF FIELD WITH AS MUCH AS 6' OF FILL MATERIAL OVER EXISTING GRADE
- INSTALL CONCRETE SEATING AND RETAINING WALLS AT SOUTH SLOPE
- RETAINING WALL CONSTRUCTION AT SOUTH EAST CORNER
- INSTALLATION OF SPORTS LIGHTING WITH DEEP FOUNDATION ±14' DEEP x3' DIAMETER
- INSTALLATION OF 17' TALL NETTING POST WITH DEEP FOUNDATION ± 6.5' DEEP x 2.5' DIAMETER
- TREE PLANT PITS

DOG PARK
- NATURAL SURFACING WITH MULCH AND EXISTING GRASS
- SMALL PAVED STAGING AREA WITH SEATING
- LOW CHAIN LINK FENCE WITH POST AND FOOTING 1.5' DEEP x 3' DIAMETER
- TREE PLANT PITS

EXPLORATION CENTER
- NEW BUILDING AND PLAZA IN LOCATION OF THE OLD PLAY AREA
- AC DRIVE AND CONCRETE PAVING FOR PARKING LOT AND PEDESTRIAN CIRCULATION
- SECURITY AND ACCESS LIGHTING WITH FOUNDATIONS ± 10' DEEP x 3' DIAMETER
- EXCAVATION, FOOTING, FOUNDATION TBD

SOUTH PARKING LOT RENOVATION
- VEHICULAR ASPHALT AND CONCRETE PAVING FOR PARKING LOT AND PEDESTRIAN CIRCULATION
- UTILITY TRENCHING FOR PARK AND EXPLORATION CENTER
- PARKING LOT AND SECURITY LIGHTING WITH FOUNDATION ± 10' DEEP x 3' DIAMETER
- EXCAVATION AND IMPORT BIO-RETENTION SOILS FOR NEW RAIN GARDEN
- TREE PLANT PITS

0 150 feet

Source: Verde Design 2022

Figure 14
Cultural Resources Plan

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19. UTILITIES AND SERVICES SYSTEMS

Would the project:

		Potentially Significant Impact	Less-than-Significant Impact with Mitigation Measures Incorporated	Less-Than-Significant Impact	No Impact
a.	Require or result in the relocation or construction of new or expanded water, wastewater treatment, storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects? (23, 49)	☐	☐	☒	☐
b.	Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years? (23, 49)	☐	☐	☐	☒
c.	Result in a determination by the wastewater treatment provider, which serves or may serve the project that it has inadequate capacity to serve the project's projected demand in addition to the provider's existing commitments? (49)	☐	☐	☒	☐
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? (41, 42, 50)	☐	☐	☒	☐
e.	Comply with federal, state, and local management and reduction statutes and regulations related to solid waste? (41, 42)	☐	☐	☒	☐

Comments:

a. **Water Supply.** According to the 2020 *Urban Water Management Plan*, the City estimates that it will have sufficient water supplies to meet proposed growth for normal, single-dry, and multiple-dry years. Proposed park improvements would represent a nominal increase in water demand associated with the new Exploration Center. Therefore, project development would not require the construction of new or expanded water treatment facilities.

Wastewater Treatment. The project would introduce two restrooms associated with the new Exploration Center and would connect to existing wastewater pipelines that service the surrounding area; thus, the project could nominally increase wastewater generated at the park. Therefore, the project would not require relocation or construction of new or expanded wastewater treatment facilities.

Stormwater Drainage. The proposed project would add impervious areas to the site (parking and the new Exploration Center). Although the project would result in some change to the existing drainage pattern of the site, the new proposed impervious surfaces would be minor and would not substantially change or increase the rate or amount of surface runoff during storm events. Additionally, the new bioretention garden would collect some storm water from the park, and the storm drains located along Main Street and Harkins Slough Road would collect any surface runoff that enters the street. The bioretention garden is part of the proposed project that is analyzed in this initial study. Construction of the bioretention garden would not result in a significant adverse environmental impact. See Section D.10, Hydrology and Water Quality, for additional discussion of stormwater discharge impacts.

Electric Power, Natural Gas, and Telecommunication Facilities. The proposed project would require electrical power for the new Exploration Center and the new field lighting, and telephone service to the new Exploration Center. Energy use is discussed in detailed in Section D.6, Energy. However, the proposed project would not require the relocation or construction of electric power, natural gas, or telecommunication facilities.

b. See analysis above for checklist question "a" under "Water Supply." No impact would occur.

c. See analysis above for checklist question "a" under "Wastewater Treatment." The project would not generate substantial wastewater demand such that City's wastewater treatment facility and its existing capacities or commitments would be exceeded.

d, e. The City of Watsonville would provide solid waste services to the project site. In 2019, the most recent available data year, approximately 77 percent of the municipal solid waste landfilled from Watsonville was disposed of at the Monterey Peninsula Landfill, north of the city of Marina. The Monterey Peninsula Landfill has a maximum permit capacity of close to 50 million tons of solid waste with a maximum daily disposal capacity of 3,500 tons (CalRecycle 2022).

The project would generate solid water during both construction and operation. Construction would temporarily generate solid waste. Once construction is complete, construction generated solid waste would cease to be produced. Increases in operational solid waste would only be generated by the new Exploration Center. Trash receptacles would be placed at the new Exploration Center to collect potential waste generated by park users. Existing trash receptacles would collect trash generated by park users throughout the rest of the park. However, it is anticipated that waste generated during operation of the project would be minimal. Utilizing the closest available solid waste generation rate land use (Public/Institutional) as defined by CalRecycle, which equates to 0.007 pounds per square foot per day, the new 2,361 square foot Exploration Center would generate approximately 16.52 pounds (or 0.008 tons) of solid waste per day (CalRecylce 2022c). This represents a marginal increase in solid waste intake at the Monterey Peninsula Landfill and therefore would not generate solid waste in excess of existing capacity.

In addition, substantial reductions in solid waste from construction materials can be achieved through recycling, reuse, and diversion programs. The City requires a construction waste management plan during the plan review pursuant to the CalGreen Code, Sections 4.408, 5.408. The City requires diversion of 50 percent of nonhazardous construction and demolition waste through recycling, reuse, and diversion programs. Therefore, a waste management plan for the proposed park improvements must demonstrate compliance with the City's goal of reusing or recycling at least 50 percent of project construction waste. Based on a minimal increase in solid waste due to construction and operations as a result of the proposed park improvements, and compliance with requirements laid out in the project's required construction waste management plan, impacts on landfill capacity would be less than significant.

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 Impact with Mitigation Measures Incorporated	Less-Than-Significant Impact	No Impact
a.	Substantially impair an adopted emergency response plan or emergency evacuation plan? (1, 2, 10)	☐	☐	☐	☒
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 wildfire? (1, 2, 10, 16)	☐	☐	☐	☒
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? (1, 2, 10, 16)	☐	☐	☐	☒
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? (1, 2, 10, 16)	☐	☐	☐	☒

Comments:

a-d. As noted in Section D.9, Hazard and Hazardous Materials, under checklist question "g.," the project site is an urban area of Watsonville and located in a local responsibility area (LRA) according to the CalFire Santa Cruz County Draft Fire Hazard Severity Zones in LRA map (CAL FIRE 2007). Therefore, the project is not located within a state responsibility area or within or adjacent to a moderate, high, or very high fire hazard severity zone and would not result in any impacts related to wildfires.

21. MANDATORY FINDINGS OF SIGNIFICANCE

		Potentially Significant Impact	Less-than-Significant Impact with Mitigation Measures 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 an endangered, rare, or threatened species; or eliminate important examples of the major periods of California history or prehistory? (52, 53, 54, 62, 63, 68)	☐	☒	☐	☐
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) (1, 2, 9, 12, 17, 28, 38, 47, 51, 52, 53, 54, 62, 63)	☐	☒	☐	☐
c.	Does the project have environmental effects, which will cause substantial adverse effects on human beings, either directly or indirectly? (1, 2, 5, 17, 27, 28, 29, 31, 38, 51)	☐	☒	☐	☐

Comments:

a. As discussed in Section D.4 Biological Resources, the proposed project has the potential to impact Santa Cruz tarplant, Congdon's tarplant, California Red-legged Frog, Western Pond Turtle, Monarch Butterfly, bats, nesting birds, riparian habitat, and wetlands and waters of the United States. Implementation of Mitigation Measures BIO-1 through BIO-11 would reduce these impacts to a less-than-significant level.

As described in Section D.5, Cultural Resources, the archival research revealed that the project location has a moderate to high potential for unrecorded Native American resources and a high potential for unrecorded historic-period archaeological resources.

Mitigation Measures CR-1 through CR-4 would ensure that the potential impacts would not be significant. In addition, Mitigation Measure TRC-1 would ensure potential impacts associated with tribal cultural resources would be reduced to a less-than-significant level.

b. The proposed project has, or would have, the potential to result in cumulative impacts in the areas of: air quality (construction), biology (potential impacts to special status plant and animal species and nesting birds), cultural resources (accidental discovery of sensitive

cultural resources and the accidental discovery of Native American human remains), geology and soils (accidental discovery of paleontological resources), and noise (construction-related impacts). However, with the implementation of identified mitigation measures presented in the Air Quality, Biological Resources, Cultural Resources, Geology and Soils, and Noise sections of this initial study, impacts of the proposed project would not be cumulatively considerable.

c. The proposed project has the potential to result in adverse environmental effects that could cause substantial adverse effects on human beings from the following: toxic air contaminants (TACs) pollutants that may be expected to result in an increase in mortality or serious illness or may pose a present or potential hazard to human health and construction-related noise at nearby sensitive receptors that exceed noise thresholds. Implementation of mitigation measures AQ-1, AQ-2 and N-1 would reduce these potential adverse effects on human beings to a less-than-significant level.

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Project Plans

A

APPENDIX

CITY OF WATSONVILLE

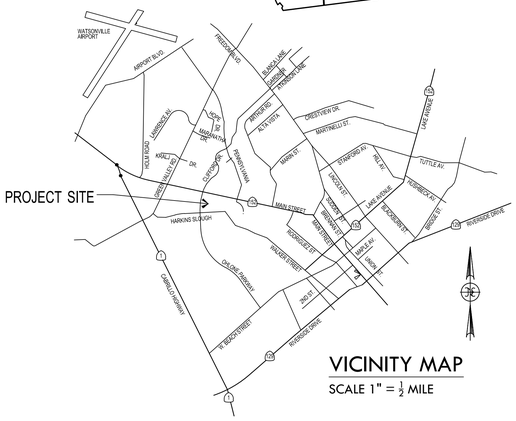
SANTA CRUZ COUNTY, CALIFORNIA

DEPARTMENT OF PUBLIC WORKS & UTILITIES

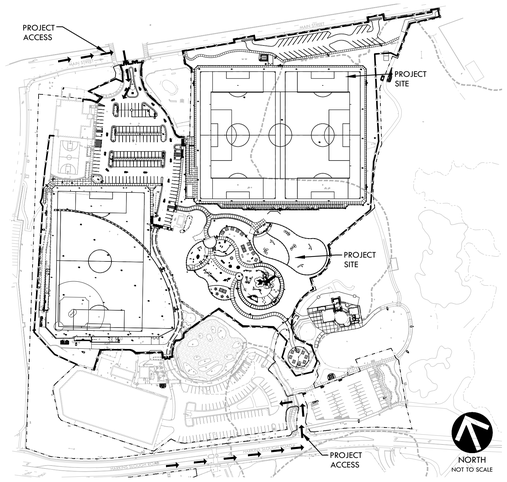
CONSTRUCTION PLANS FOR RAMSAY PARK RENAISSANCE PROJECT

1301 MAIN STREET
WATSONVILLE, CA 95076
CITY PROJECT NO. PK-22-01





VICINITY MAP
SCALE 1" = ½ MILE



SITE MAP / CONSTRUCTION ROUTE

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C0.2	OVERALL SITE PLAN
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L2.1 - L2.4	EROSION AND SEDIMENT CONTROL PLAN
L3.1 - L3.4	DEMOLITION PLAN
L4.1 - L4.6	TREE DISPOSITION PLAN
L5.1 - L5.4	GRADING PLAN
LX.X	SECTION CUT PLAN
L6.1 - L6.4	DRAINAGE / UTILITY PLAN
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M1.1 - M1.6	MUSCO LIGHITING PLANS

PREPARED BY

REGISTERED LANDSCAPE ARCHITECT — DEREK MCKEE — No. 4148 — Signature — EXPIRATION DATE: DEC. 2022 — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — DALE A. HENDSBEE — No. S3549 — EXP. 3-31-20 — STRUCTURAL — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — SAMMY S. FERNANDEZ — E16890 — Exp. 06/30/21 — ELECTRICAL — STATE OF CALIFORNIA

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STRUCTURAL ENGINEER MESITI-MILLER ENGINEERING, INC	DALE HENDSBEE	(831) 426-3186

SCOPE OF WORK

1. SITE IMPROVEMENTS INCLUDE THE DEMOLITION AND REMOVAL OF EXISTING HARDSCAPE PAVING, SITE FURNISHINGS, CLEAR AND GRUB, AND INSTALLATION OF IMPROVEMENTS AS SHOWN IN THE CONTRACT DOCUMENTS.
2. CONTRACTOR SHALL COMPLETE: EARTHWORK, GRADING, SITE DRAINAGE, INSTALLATION OF ALL HARDSCAPE INCLUDING RETAINING WALLS, ADA IMPROVEMENTS, SLURRY COAT ASPHALT PAVING, IRRIGATION, PLANTING, SITE FURNISHINGS, AND PROJECT SIGNAGE. CONTRACTOR SHALL COORDINATE ALL WORK WITH THE CITY'S REPRESENTATIVE.
3. CONTRACTOR SHALL INSTALL ALL IRRIGATION UTILITIES AND PLANTING MATERIALS AS SHOWN IN THE CONSTRUCTION DOCUMENTS AS PART OF THE BASE BID.

BID ALTERNATES

BID ALTERNATE #1 - SHADE STRUCTURE AT PICNIC AREA
- BASE BID: CONTRACTOR SHALL INSTALL CONCRETE EDGE, SURFACE MATERIAL, AND PICNIC TABLES.
- BID ALT: CONTRACTOR SHALL INSTALL CONCRETE EDGE, SURFACE MATERIAL, PICNIC TABLES, AND SHADE STRUCTURE.

BID ALTERNATE #2 - TREE SCULPTURE AT PLANTING AREA IN PLAY AREA
- BASE BID: INSTALLATION OF CONCRETE EDGE AT PLANTING AREA, AND PLANTING AND IRRIGATION
- BID ALT: INSTALLATION OF CONCRETE EDGE AT PLANTING AREA, PLANTING AND IRRIGATION, AND TREE SCULPTURE AT PLANTING AREA

KEY DATES

APPROVAL _____
BID OPENING _____
CONSTRUCTION _____
COMPLETION _____
AS BUILT _____

CITY OF WATSONVILLE, CALIFORNIA
CITY COUNCIL

EDWARD MONTESINO, MAYOR PRO TEMPORE
LOWELL HURST

ARI PARKER, MAYOR
REBECCA GARCIA

FRANCISCO ESTRADA
JIMMY DUTRA

ADMINISTRATIVE STAFF

MATT HUFFAKER, City Manager
CHRISTIAN DI RENZO, INTERIM DIRECTOR OF PUBLIC WORKS & UTILITIES
SAMANTHA ZUTLER, City Attorney

PLAN CHECK SUBMITTAL DD/MM/YY — REVISION NO.

APPROVED BY:
_____
Maria Esther Camranza Rodriguez
City Engineer
Public Works and Utilities Department
_____
Date

DATE OF PLANS

SHEET C0.0 - 1 OF 106

VERDE PROJECT NO. 2106300

RAMSAY PARK RENAISSANCE PROJECT, CITY OF WATSONVILLE 65% SUBMITTAL - 06/30/2022

ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE PRIOR WRITTEN PERMISSION OF VERDE DESIGN, INC.

APPLICABLE CODES

1. 2019 CBC CHAPTER 35: PROVIDE ALL THE APPLICABLE/ADOPTED STANDARDS. WHERE A PARTICULAR STANDARD IS REFERENCED IN THE CODE BUT DOES NOT APPEAR AS AN ADOPTED STANDARD IT MAY STILL BE USED. APPLY ONLY THE PORTION OF THE STANDARD THAT IS APPLICABLE TO THE CODE SECTION WHERE THE STANDARD IS REFERENCED, NOT THE ENTIRE STANDARD.

   2019 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
   2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
   (2018 INTERNATIONAL BUILDING CODE VOLUMES 1-2 AND 2019 CALIFORNIA AMENDMENTS)
   2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
   (2017 NATIONAL ELECTRICAL CODE AND 2019 CALIFORNIA AMENDMENTS)
   2019 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R.
   (2018 UNIFORM MECHANICAL CODE AND 2019 CALIFORNIA AMENDMENTS)
   2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
   (2018 UNIFORM PLUMBING CODE AND 2019 CALIFORNIA AMENDMENTS)
   2019 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.
   2019 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.
   (2018 INTERNATIONAL FIRE CODE AND 2019 CALIFORNIA AMENDMENTS)
   2019 CALIFORNIA EXISTING BUILDING CODE, PART 10, TITLE 24 C.C.R.
   (2018 INTERNATIONAL EXISTING BUILDING CODE AND 2019 CALIFORNIA AMENDMENTS)
   2019 CALIFORNIA "GREEN" BUILDING REQUIREMENTS OR CAL GREEN, PART 11, TITLE 24 C.C.R.
   2019 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
   2016 TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
   2016 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS

   LIST OF FEDERAL CODES AND STANDARDS (IF APPLICABLE)
   AMERICANS WITH DISABILITIES ACT (ADA), TITLE II OR TITLE III
   FOR TITLE II: UNIFORM FEDERAL ACCESSIBILITY STANDARDS (UFAS) — 28 CFR 35.151(c)
   OR ADA STANDARDS FOR ACCESSIBLE DESIGN (APPENDIX A OF 28 CFR PART 36)
   FOR TITLE III: ADA STANDARDS FOR ACCESSIBLE DESIGN (APPENDIX A OF 28 CFR PART 36) — 28 CFR 36.406
   2010 AMERICANS WITH DISABILITIES ACT (ADA) STANDARDS FOR ACCESSIBLE DESIGN

   NOTE: TITLE II APPLIES TO PROJECTS FUNDED AND/OR USED BY STATE AND LOCAL GOVERNMENT SERVICES. TITLE III COVERS PUBLIC ACCOMMODATIONS AND COMMERCIAL FACILITIES. DEPENDING ON THE USE AND FUNDING, BOTH TITLE MAY APPLY TO THE PROJECT.

NFPA 13	AUTOMATIC SPRINKLER SYSTEMS (CALIFORNIA AMENDED)	2019 EDITION
NFPA 14	STANDPIPE SYSTEMS	2019 EDITION
NFPA 17	DRY CHEMICAL EXTINGUISHING SYSTEMS	2017 EDITION
NFPA 17A	WET CHEMICAL EXTINGUISHING SYSTEMS	2017 EDITION
NFPA 20	STATIONARY FIRE PUMPS	2019 EDITION
NFPA 22	WATER TANKS FOR PRIVATE FIRE PROTECTION	2018 EDITION
NFPA 24	PRIVATE FIRE SERVICE MAINS	2019 EDITION
NFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE (CALIFORNIA AMENDED) (NOTE SEE UL STANDARD 1971 FOR "VISUAL DEVICES)	2019 EDITION
NFPA 80	FIRE DOORS AND OTHER OPENING PROTECTIVES	2019 EDITION
NFPA 253	CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS	2019 EDITION
NFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	2018 EDITION
UL 300	FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT	2005 (R2010)
UL 464	AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ADDESSORIES	2003 EDITION
UL 521	HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS	1999 EDITION
UL 1971	SIGNALING DEVICES FOR THE HEARING IMPAIRED	2002 EDITION
ICC 300	BLEACHERS, FOLDING AND TELESCOPING SEATING, AND GRANDSTANDS	2017 EDITION
ASME 17.1	ELEVATOR STANDARD	2016 EDITION

   REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS - 2019 CALIFORNIA BUILDING CODE (FOR SFM) REFERENCED STANDARDS CHAPTER 35

   ADA STANDARD FOR ACCESSIBLE DESIGN (APPENDIX A OF 28 CFR PART 36)

2. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CHANGE ORDER, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE OWNER REPRESENTATIVE BEFORE PROCEEDING WITH THE WORK.

3. ALL EXISTING FIRE EXTINGUISHING SYSTEMS ARE IN COMPLIANCE WITH UL 300, CBC 904.11, CFC 904.11.

4. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

GENERAL NOTES

1. PRIOR TO BIDDING, THE GENERAL CONTRACTOR SHALL VISIT & INSPECT THE SITE & FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AFFECTING THE NEW WORK. THE GENERAL CONTRACTOR SHALL NOT DISPUTE, COMPLAIN OR ASSERT THAT THERE IS ANY MISUNDERSTANDING IN REGARDS TO LOCATION, EXTENT, NATURE OR AMOUNT OF WORK TO BE PERFORMED UNDER THIS CONTRACT DUE TO THE CONTRACTOR'S FAILURE TO INSPECT THE SITE. CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE OF ANY CONDITIONS, REQUIRING WORK, WHICH ARE NOT COVERED IN THE CONTRACT DOCUMENTS.
2. NO CONSTRUCTION SHALL COMMENCE WITHOUT THE OFFICIAL NOTICE TO PROCEED FROM THE OWNER.
3. THE GENERAL CONTRACTOR & SUBCONTRACTORS ARE RESPONSIBLE FOR LOCATING & VERIFYING ALL EXISTING UNDERGROUND UTILITIES IN ALL AREAS OF NEW WORK PRIOR TO COMMENCEMENT OF EXCAVATION. EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE APPROXIMATE ROUTING LOCATIONS AS BEST DETERMINED FROM EXISTING DRAWINGS AND THE OWNER, BUT SHOULD NOT BE CONSTRUED TO REPRESENT ALL OF THE EXISTING UNDERGROUND UTILITIES. THE CONTRACTOR SHALL POTHOLE ALL EXISTING UTILITIES THAT MAY BE AFFECTED BY NEW FACILITIES IN THIS CONTRACT. VERIFY ACTUAL LOCATION AND DEPTH OF UTILITIES, AND REPORT POTENTIAL CONFLICTS TO THE OWNER'S REPRESENTATIVE PRIOR TO EXCAVATING FOR NEW FACILITIES.
4. CONTRACTOR SHALL TAKE ALL NECESSARY STEPS TO PROTECT ALL EXISTING UTILITIES, WHETHER SHOWN OR NOT, IN THE CONTRACT DOCUMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO EXISTING UTILITIES CAUSED BY ITS OPERATIONS.
5. THE CONTRACTOR SHALL PROTECT ALL EXISTING ITEMS WITHIN SITE IMPROVEMENTS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR ALL DAMAGED AREAS TO THEIR ORIGINAL CONDITION OR BETTER AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
6. DIMENSIONS AND LOCATIONS OF EXISTING FACILITIES ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY CONTRACTOR. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE.
7. ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE CALIFORNIA BUILDING CODE, CALIFORNIA PLUMBING CODE, CALIFORNIA FIRE CODE AND ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES, AS WELL AS ADAPTED STANDARDS.
8. ALL NOTES ARE FOR GENERAL REFERENCE IN CONJUNCTION WITH, AND AS A SUPPLEMENT TO, THE WRITTEN SPECIFICATIONS AND DETAILS ASSOCIATED WITH THE CONTRACT DOCUMENTS.
9. THIS DRAWING SET SHALL BE USED IN CONJUNCTION WITH THE CSI FORMAT SPECIFICATIONS PUBLISHED IN BOOK FORM. COMBINED, THEY ARE HEREIN REFERRED TO AS THE "CONTRACT DOCUMENTS".
10. DIMENSIONS ON WORKING DRAWINGS TAKE PRECEDENCE OVER MEASURED ELEMENTS. CONTRACTOR SHALL NOT SCALE DRAWINGS.
11. ALL TYPICAL DETAILS SHALL APPLY UNLESS NOTED OTHERWISE.
12. CONTRACTOR SHALL PROVIDE ADEQUATE DUST CONTROL AND KEEP MUD AND DEBRIS OFF THE PUBLIC RIGHT-OF-WAY AT ALL TIMES.
13. ALL TRENCHES AND EXCAVATIONS SHALL BE CONSTRUCTED IN STRICT COMPLIANCE WITH THE APPLICABLE SECTIONS OF CALIFORNIA AND FEDERAL O.S.H.A. REQUIREMENTS AND OTHER APPLICABLE SAFETY ORDINANCES. CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR TRENCH SHORING DESIGN AND INSTALLATION.
14. ANY ALTERATIONS OF EXISTING FACILITIES TO ACCOMMODATE THE INSTALLATION OF NEW WORK SHALL BE REVIEWED BY THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCING WORK.
15. CONTRACTOR SHALL COORDINATE ALL WORK TO AVOID DISTURBING PARK PROGRAMS, SPORTS LEAGUES, OR RECREATION FACILITY USERS DURING PARK HOURS. ANY DISRUPTION OF THE UTILITIES OR DISRUPTION TO NORMAL BUILDING, PARKING LOT OR PARK ACCESS MUST BE COORDINATED AND APPROVED BY THE OWNER'S REPRESENTATIVE AND INSPECTOR OF RECORD PRIOR TO COMMENCING WORK AND THE LENGTH OF THE DISRUPTION MUST BE MINIMIZED.
16. ALL TEMPORARY WORK SHALL BE CONSIDERED A PART OF THIS CONTRACT AND NO EXTRA CHARGES WILL BE ALLOWED. THIS SHALL INCLUDE MINOR ITEMS OF MATERIAL OR EQUIPMENT NECESSARY TO MEET THE REQUIREMENTS AND INTENT OF THE PROJECT.
17. THE PLANS AND SPECIFICATIONS DO NOT UNDERTAKE TO SHOW OR LIST EVERY ITEM TO BE PROVIDED, BUT RATHER TO DEFINE THE REQUIREMENTS FOR A FULL AND WORKING SYSTEM FROM THE STANDPOINT OF THE END USER. FOR THIS REASON, WHEN AN ITEM NOT SHOWN OR LISTED IS CLEARLY NECESSARY FOR PROPER CONTROL/OPERATION OF EQUIPMENT WHICH IS SHOWN OR LISTED, THE CONTRACTOR SHALL PROVIDE AN ITEM WHICH WILL ALLOW THE SYSTEM TO FUNCTION PROPERLY AT NO INCREASE IN PRICE.
18. ALL CONTRACTORS SHALL REMOVE TRASH AND DEBRIS STEMMING FROM THEIR WORK ON A DAILY BASIS. PROJECT SITE SHALL BE MAINTAINED IN A CLEAN AND ORDERLY CONDITION.
19. THE DETAILS REFLECT THE DESIGN INTENT FOR TYPICAL CONDITIONS. THE CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND SHALL INCLUDE, IN HIS SCOPE, THE COST FOR COMPLETE FINISHED INSTALLATIONS, INCLUDING ANOMALIES, OF ALL TRADES.
20. NO WORK SHALL COMMENCE WITH UNAPPROVED MATERIALS. ANY WORK DONE WITH UNAPPROVED MATERIALS AND EQUIPMENT IS AT THE CONTRACTOR'S RISK AND IS SUBJECT TO REJECTION AND REPLACEMENT. SEE SPECIFICATIONS FOR SUBMITTAL AND SUBSTITUTION REQUIREMENTS.
21. CONSTRUCTION MATERIALS STORED ON THE SITE SHALL BE PROPERLY STACKED AND PROTECTED SO AS TO PREVENT DAMAGE OR DETERIORATION UNTIL USED. FAILURE IN THIS REGARD MAY BE CAUSE FOR REJECTION OF MATERIAL AND/OR WORK.
22. ALL EQUIPMENT SHALL BE FABRICATED FROM FIELD VERIFIED DIMENSIONS AND APPROVED SHOP DRAWINGS. COORDINATE MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT.
23. CONTRACTOR SHALL PERFORM THEIR CONSTRUCTION AND OPERATIONS IN A MANNER WHICH WILL NOT ALLOW HARMFUL POLLUTANTS TO ENTER THE STORM DRAIN SYSTEM. TO ENSURE COMPLIANCE, THE CONTRACTOR SHALL IMPLEMENT THE APPROPRIATE BEST MANAGEMENT PRACTICE (BMP) AS OUTLINED IN THE BROCHURES ENTITLED "BEST MANAGEMENT PRACTICE FOR THE CONSTRUCTION INDUSTRY" ISSUED BY THE CALIFORNIA STORM WATER QUALITY ASSOCIATION, NONPOINT SOURCE POLLUTION CONTROL PROGRAM, TO SUIT THE CONSTRUCTION SITE AND JOB CONDITION. THE CONTRACTOR SHALL PRESENT THEIR PROPOSED BMP AT THE PRECONSTRUCTION MEETING FOR DISCUSSION AND APPROVAL.
24. CONTRACTOR SHALL PROVIDE TEMPORARY CONSTRUCTION FENCING PER CONTRACT DOCUMENTS TO SERVE LIMIT OF WORK AREAS. FENCING MAY BE ADJUSTED DURING CONSTRUCTION BASED ON CONSTRUCTION SEQUENCE OR OWNER REPRESENTATIVE'S DIRECTION.
25. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT IN THE STREET RIGHT-OF-WAY SHALL NOT BE PERMITTED.
26. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL SAFETY AND TRAFFIC CONTROL REQUIRED ON EXISTING STREETS, TRAILS AND WITHIN THE PARK DURING THE COURSE OF CONSTRUCTION CONTINUOUSLY AND NOT LIMITED TO NORMAL WORKING HOURS.
27. THE PROTECTION OF ALL EXITING IMPROVEMENTS DURING CONSTRUCTION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
28. IT SHOULD BE UNDERSTOOD THAT ON-SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR, AND THAT THE CONTRACTOR SHALL DESIGNATE A COMPETENT PERSON (AS DEFINED BY CAL-OSHA) TO MONITOR THE SLOPE EXCAVATION PRIOR TO THE START OF EACH WORK DAY, AND THROUGHOUT THE WORK DAY AS CONDITIONS CHANGE. THE COMPETENT PERSON DESIGNATED BY THE CONTRACTOR SHALL DETERMINE IF FLATTER SLOPE GRADIENTS ARE MORE APPROPRIATE, OR IF SHORING SHOULD BE INSTALLED TO PROTECT WORKERS IN THE VICINITY OF THE SLOPE EXCAVATION. REFER TO TITLE 8, CALIFORNIA CODE OF REGULATIONS, SECTIONS 1539-1543.
29. ALL EXCAVATIONS MUST MEET THE REQUIREMENTS OF 29 CFR 1926.651 AND 1926.652 OR COMPARABLE OSHA APPROVED STATE PLAN REQUIREMENTS.
30. A SYSTEM TO MONITOR THE POSITION AND ANY MOVEMENT OF THE EXITING RETAINING WALL LOCATED UP SLOPE OF THE PROPOSED PATHWAY AND ASSOCIATED RETAINING WALLS SHOULD BE DESIGNED, CONSTRUCTED, AND MAINTAINED. THE SYSTEM SHOULD BE MONITORED PERIODICALLY DURING THE PROJECT AND A RECORD OF THE MEASUREMENTS KEPT. THE MONITORING SHOULD BE PERFORMED BY A CALIFORNIA REGISTERED AND LICENSED SURVEYOR. THE MEASUREMENT RECORDS FROM THE SYSTEM SHOULD BE AVAILABLE FOR REVIEW BY THE CITY AND PACIFIC CREST ENGINEERING INC.
31. PACIFIC CREST ENGINEERING INC., SHOULD BE CONTACTED AND MADE AWARE OF ANY MOVEMENT OF THE EXISTING RETAINING WALL.

REGISTERED LANDSCAPE ARCHITECT — DEREK MEIER — No. 4148 — Signature — EXPIRATION DATE: DEC. 2022 — STATE OF CALIFORNIA

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
2455 The Alameda
Santa Clara, CA 95050
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www.VerdeDesigninc.com

CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

GENERAL NOTES

Approved by: MARIA ESTHER CARRANZA RODRIGUEZ — Date:

Designed by: — Drawn by: — Checked by: TY/DM — Job No. 2106300 — Scale: — SHEET C0.1 — 2 of 106

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

DRAWING NAME: X:\Projects-SC\2021\2106300 - Watsonville Ramsay Park Improvements\CAD_CVR-General Notes.dwg
PLOT DATE: 07-01-22 PLOTTED BY: station78

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4

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MAIN STREET

MAIN STREET

ABANDONED GAS LINE

124 PARKING STALLS

SHEET
Lx.1

SHEET
Lx.3

ABANDONED GAS LINE

SHEET
Lx.4

SHEET
Lx.2

SHEET
Lx.5

SHEET
Lx.6

HARKINS SLOUGH ROAD

HARKINS SLOUGH ROAD

NORTH

REGISTERED LANDSCAPE ARCHITECT
DEREK McKEE
No. 4148
Signature
EXPIRATION DATE: DEC. 2022
STATE OF CALIFORNIA

VERDE DESIGN
LANDSCAPE ARCHITECTURE
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CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

OVERALL SITE PLAN

Approved by _____ Date _____
MARIA ESTHER CARRANZA RODRIGUEZ

Designed by _____
Drawn by VERDE
Checked by TY/DM

Job No. 2106300
Scale NOT TO SCALED

SHEET C0.2
X of 106

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

DRAWING NAME: Y:\Projects-SC\2021\2106300 - Watsonville Ramsay Park Improvements\CAD_SITE-MP.dwg
PLOT DATE: 07-01-22 PLOTTED BY: station78

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES
0 1 2 3 4



MATCH LINE - REFER TO SHEET L0.2

MATCH LINE - REFER TO SHEET L0.3

Basis of Bearings

THE BASIS OF BEARINGS FOR THIS SURVEY IS BETWEEN MONUMENTS (W-664 AND W-665) FOUND ALONG HARKINS SLOUGH ROAD, AS SHOWN ON THAT MAP FILED IN VOLUME 115 OF SURVEYS, AT PAGE 7, SANTA CRUZ COUNTY RECORDS.

BASIS OF BEARINGS = S75°05'20" E

Benchmark

THE BENCHMARK FOR THIS SURVEY IS CITY OF WATSONVILLE BENCHMARK W-134, WHICH IS A BRASS DISK LOCATED AT THE NORTHEAST CURB RETURN OF MAIN STREET AND PENNSYLVANIA DRIVE.

BENCHMARK ELEVATION = 35.15 (NAVD88) PER 115 M 7

Utility Note

UTILITIES SHOWN HEREON ARE BASED ON SURFACE EVIDENCE OBSERVED BY THE SURVEYOR, AND BY UNDER GROUND LOCATION (PROVIDED BY OTHERS) AT THE TIME OF THE SURVEY. SURVEYOR IS NOT RESPONSIBLE FOR THE COMPLETENESS, LOCATIONS OR SIZES THAT MAY BE SHOWN.

Easement Note

EASEMENTS SHOWN HEREON ARE BEST FIT PER REFERENCED RECORD DEEDS. NO TITLE REPORT PROVIDED FOR COMPLETE EASEMENT PLOTTING.

Survey Note

ALL SURVEY SHOTS ARE NOT SHOWN ON THIS PLAN. SEE CAD FILE ETOPO.DWG, LAYER V-PNTS-OFF, FOR ADDITIONAL SURVEY SHOT INFORMATION.

IFLAND SURVEY
Surveying – Mapping – GPS
5300 Soquel Avenue, Suite 101, Santa Cruz, CA 95062
Tel 831.426.7941 Fax 831.426.6266

Legend

- BENCHMARK
- SAN. SEWER MANHOLE
- STORM DRAIN MANHOLE
- ACCESSIBLE PARKING
- WV — WATER VALVE
- WM — WATER METER
- FIRE HYDRANT
- FIRE CONNECTION
- FIRE SERVICE METER
- BFP — BACKFLOW PREVENTER
- INV. — INVERT ELEVATION
- PGAE — PACIFIC GAS & ELECTRIC VAULT
- SL — STREET LIGHT BOX
- TS — TRAFFIC SIGNAL BOX
- UV — UTILITY VAULT
- EB — ELECTRICAL BOX
- ELECTRICAL PULL BOX
- SPRINKLER HEAD
- SPECIMEN OAK TREE
- SOCCER NETTING POLE
- STORM DRAIN INLET
- SURVEY CONTROL POINT
- STREET SIGNAGE
- LIGHT STANDARD
- SSCO — SAN. SEWER CLEANOUT
- UTILITY POLE
- GUY POLE
- GUY WIRE
- IRRIGATION VALVE
- GAS METER
- GAS VALVE
- ELECTROLIER
- TRAFFIC SIGNAL
- UTILITY VALVE BOX
- BOLLARD
- TRAFFIC LIGHT
- STADIUM LIGHT / TENNIS COURT LIGHT

- BUILDING FOOTPRINT
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- CONTOUR LINE
- WALL
- FLOWLINE
- MATCH LINE
- SLOUGH EDGE, APPROXIMATE
- CAL TRANS R.O.W. — CAL TRANS RIGHT OF WAY, APPROXIMATE

Tree Survey

TREE SURVEY PROVIDED BY CITY ARBORIST, REFER TO TREE SURVEY APPENDIX IN SPECIFICATION FOR TREE CONDITION AND ARBORIST'S RECOMMENDATIONS.

- GOOD — TREE IN GOOD CONDITION
- FAIR — TREE IN FAIR CONDITION
- POOR — TREE IN POOR CONDITION
- CRITICAL — TREE IN CRITICAL CONDITION
- DEAD — DEAD TREE
- STUMP — STUMP
- 362 — TREE ASSESSMENT ID#
- 27" — TREE CALIPER SIZE

NORTH

0 10' 20' 40' 60'

REGISTERED LANDSCAPE ARCHITECT — REBEK MCKEE — No. 4148 — Signature — EXPIRATION DATE: DEC. 2022 — STATE OF CALIFORNIA

VERDE DESIGN
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CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

EXISTING CONDITIONS SURVEY PLAN

Approved by _____ Date _____
MARIA ESTHER CARRANZA RODRIGUEZ

Designed by LFLAND SURVEY | Job No. 2106300 | SHEET L0.1
Drawn by _____ | Scale 1"=20'-0" | X of 106
Checked by TY/DM

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

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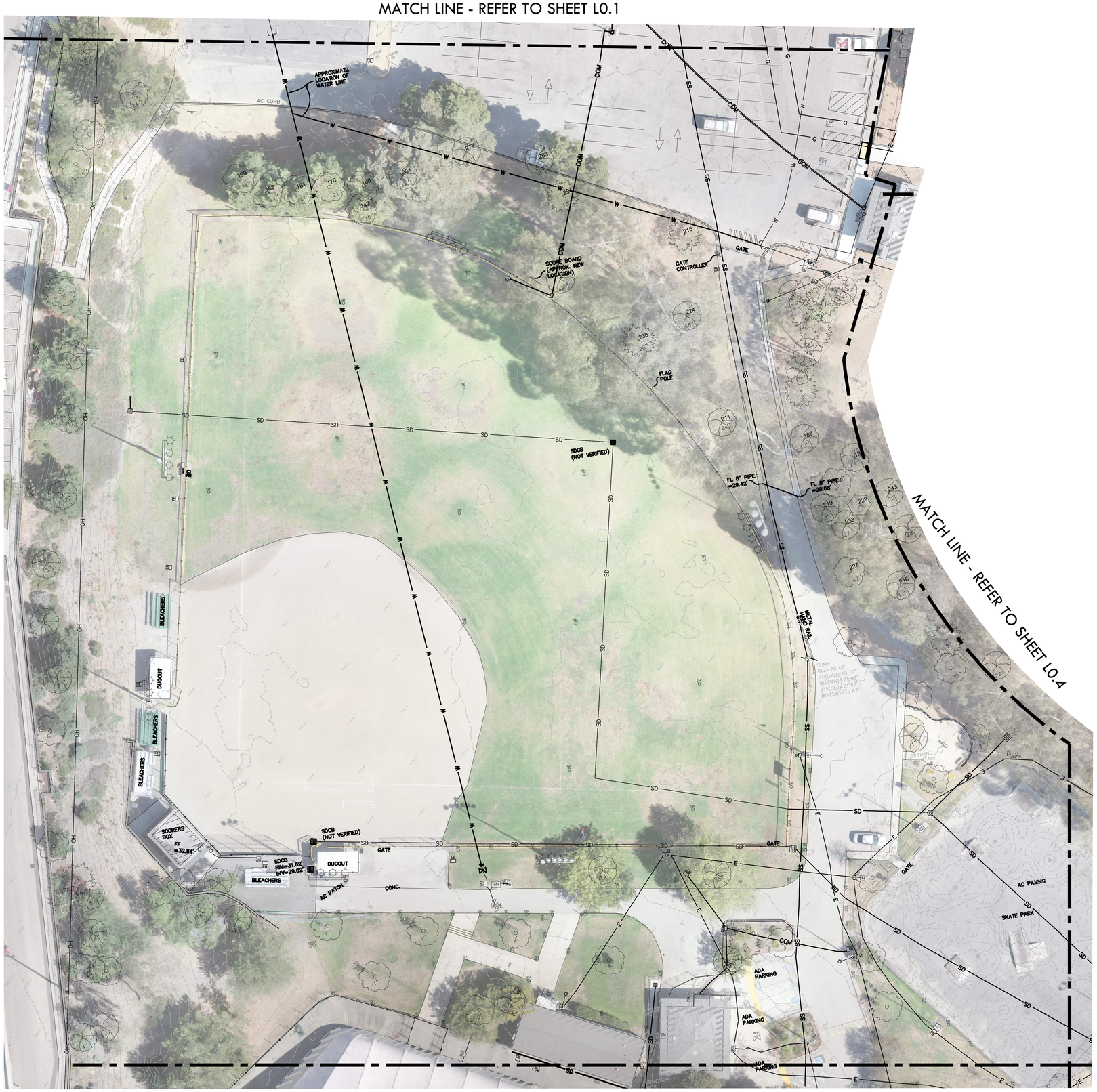
PLOT DATE: 07-01-22 PLOTTED BY: station78

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4

VERDE PROJECT NO. 2106300

MATCH LINE - REFER TO SHEET L0.1



Legend

- BENCHMARK
- SAN. SEWER MANHOLE
- STORM DRAIN MANHOLE
- ACCESSIBLE PARKING
- WATER VALVE
- WATER METER
- FIRE HYDRANT
- FIRE CONNECTION
- FIRE SERVICE METER
- BACKFLOW PREVENTER
- INVERT ELEVATION
- PACIFIC GAS & ELECTRIC VAULT
- STREET LIGHT BOX
- TRAFFIC SIGNAL BOX
- UTILITY VAULT
- ELECTRICAL BOX
- ELECTRICAL PULL BOX
- SPRINKLER HEAD
- SPECIMEN OAK TREE
- SOCCER NETTING POLE
- STORM DRAIN INLET
- SURVEY CONTROL POINT
- STREET SIGNAGE
- LIGHT STANDARD
- SAN. SEWER CLEANOUT
- UTILITY POLE
- GUY POLE
- GUY WIRE
- IRRIGATION VALVE
- GAS METER
- GAS VALVE
- ELECTROLIER
- TRAFFIC SIGNAL
- UTILITY VALVE BOX
- BOLLARD
- TRAFFIC LIGHT
- STADIUM LIGHT
  TENNIS COURT LIGHT

- BUILDING FOOTPRINT
- W — WATER LINE
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- SLOUGH EDGE, APPROXIMATE

IFLAND SURVEY
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Tree Survey

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- 27" — TREE CALIPER SIZE

NORTH

0 10' 20' 40' 60'

REGISTERED LANDSCAPE ARCHITECT — DEREK MORE — No. 4148 — Signature — EXPIRATION DATE: DEC. 2022 — STATE OF CALIFORNIA

VERDE DESIGN
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CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

EXISTING CONDITIONS SURVEY PLAN

Approved by _____ Date _____
MARIA ESTHER CARRANZA RODRIGUEZ

Designed by	IFLAND SURVEY	Job No.	2106300
Drawn by	TY/DM	Scale	1"=20'-0"
Checked by			

SHEET L0.2 X of 106

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

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PLOT DATE: 07-01-22 PLOTTED BY: station78

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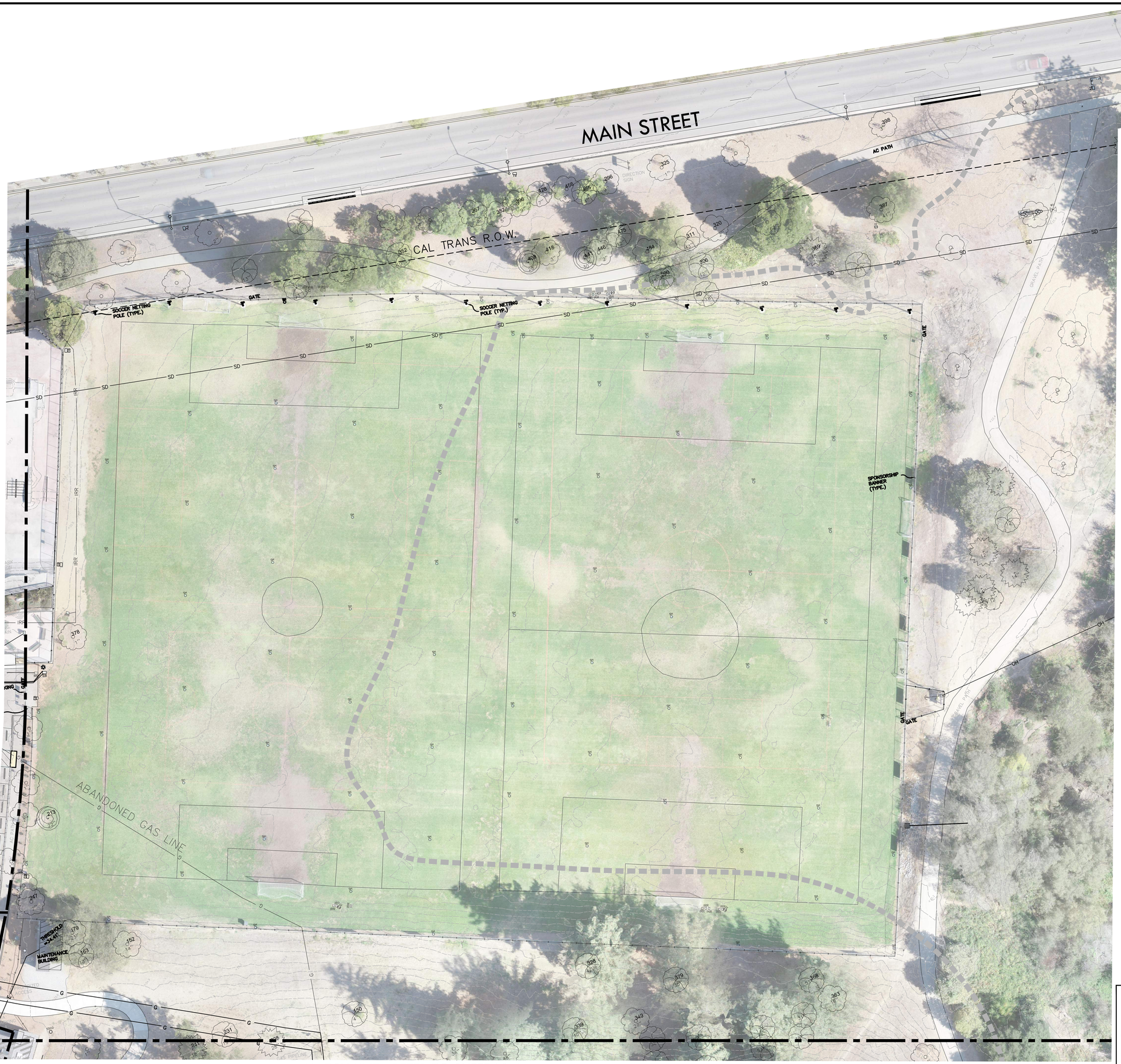

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RAMSAY PARK RENAISSANCE PROJECT

EXISTING CONDITIONS SURVEY PLAN

Approved by _____ Date _____
MARIA ESTHER CARRANZA RODRIGUEZ

Designed by IFLAND SURVEY | Job No. 2106300 | SHEET L0.4
Drawn by _____
Checked by TY/DM | Scale 1"=20'-0" | X of 106

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

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MATCH LINE - REFER TO SHEET L0.3

MATCH LINE - REFER TO SHEET L0.2

MATCH LINE - REFER TO SHEET L0.6

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- STUMP — STUMP
- 362 — TREE ASSESSMENT ID#
- 27" — TREE CALIPER SIZE

NORTH

0 10' 20' 40' 60'

REGISTERED LANDSCAPE ARCHITECT — DEREK McGEE — No. 4148 — Signature — EXPIRATION DATE: DEC. 2022 — STATE OF CALIFORNIA

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
2455 The Alameda
Santa Clara, CA 95050
tel: 408.985.7700
fax: 408.985.7260
www.VerdeDesignInc.com

CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

EXISTING CONDITIONS SURVEY PLAN

Approved by _____ Date _____
MARIA ESTHER CARRANZA RODRIGUEZ

Designed by IFLAND SURVEY | Job No. 2106300 | SHEET L0.4
Drawn by TY/DM | Scale 1"=20'-0" | X of 106
Checked by

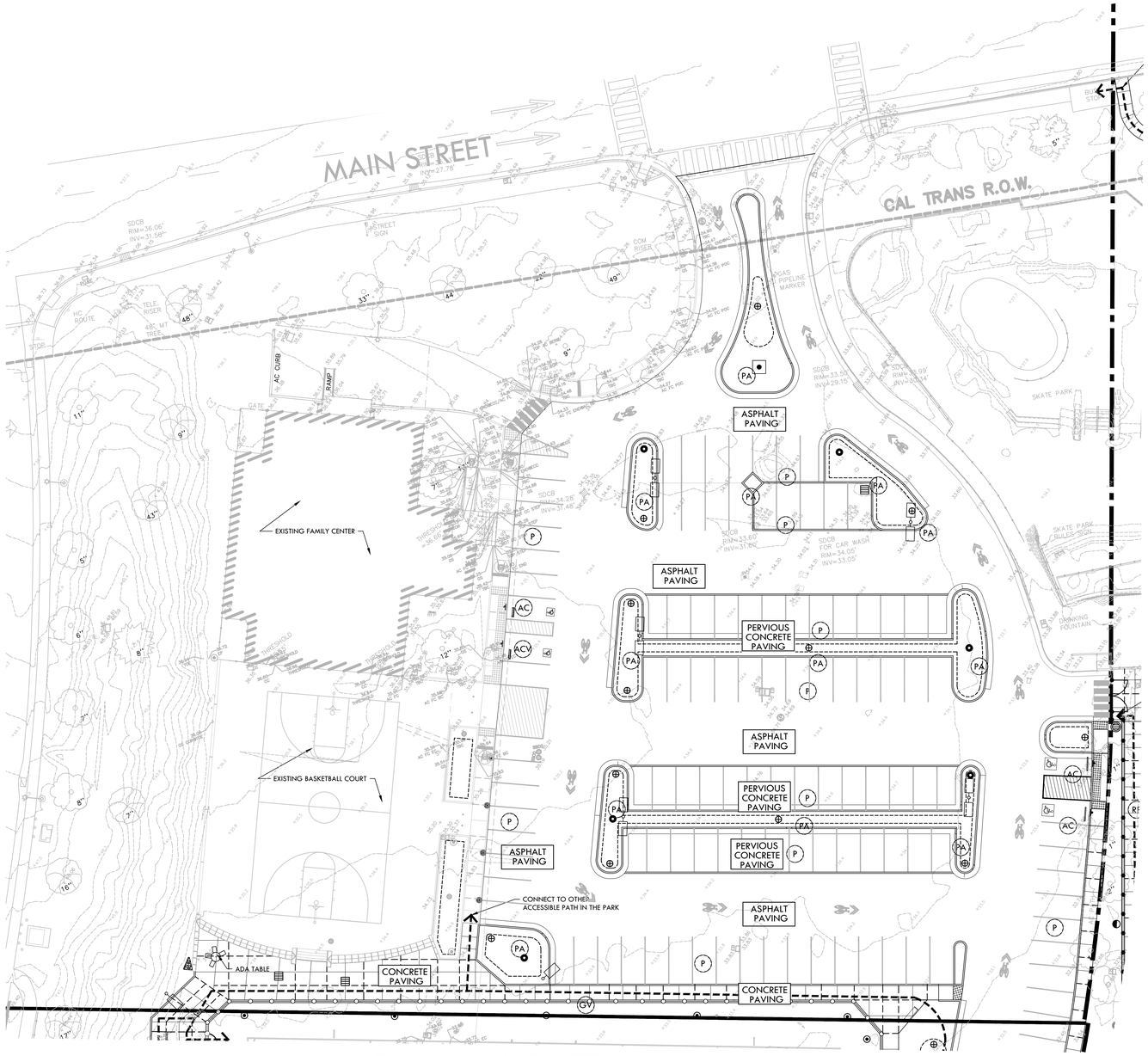
VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE PRIOR WRITTEN PERMISSION OF VERDE DESIGN, INC.

DRAWING NAME: Y:\Projects-SC\2021\2106300 - Watsonville Ramsay Park Improvements\CAD_EXC.dwg
PLOT DATE: 07-01-22 PLOTTED BY: station78

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4



ACCESSIBILITY PLAN NOTES

1. ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 0.4" BEVELED AT 1:2 MAX. SLOPE, OR VERTICAL LEVEL CHANGES EXCEEDING ¼" MAX. AND A LEAST 48" WIDE. SURFACE IS SLIP RESISTANT, STABLE, FIRM, AND SMOOTH. CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED.
2. 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". OWNER SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.

KEYNOTES

SYM	DESCRIPTION	DTL REF
	PROPOSED ACCESSIBLE PATH OF TRAVEL - MAX. CROSS SLOPE 2%	
	LIMIT OF WORK	
AC	ACCESSIBLE PARKING STALL	-
ACV	VAN ACCESSIBLE PARKING STALL	-
DF	DRINKING FOUNTAIN	-
DL	DOG PARK - LARGE DOG AREA	
DS	DOG PARK - SMALL DOG AREA	
G	8'TALL x 4' WIDE PEDESTRIAN GATE	-
GV	8' TALL x 12' WIDE CHAIN LINK DOUBLE SWING GATE	-
P	PARKING LOT	
PA	PLANTING AREA	
PG	5-12 YEARS OLD PLAY AREA	
PI	PICNIC AREA	
PM	SENSORY PLAY AREA	
PS	SWING ZONE	
PT	TODDLER PLAY AREA	
RG	RAIN GARDEN	-
RP	ACCESSIBLE RAMP	-
S	STAIRS	-
SS	STORAGE SHED	
TS	TERRACE SEATING (SPECTATOR AREA)	-

NORTH

0 10' 20' 40' 60'

ACCESSIBILITY PLAN

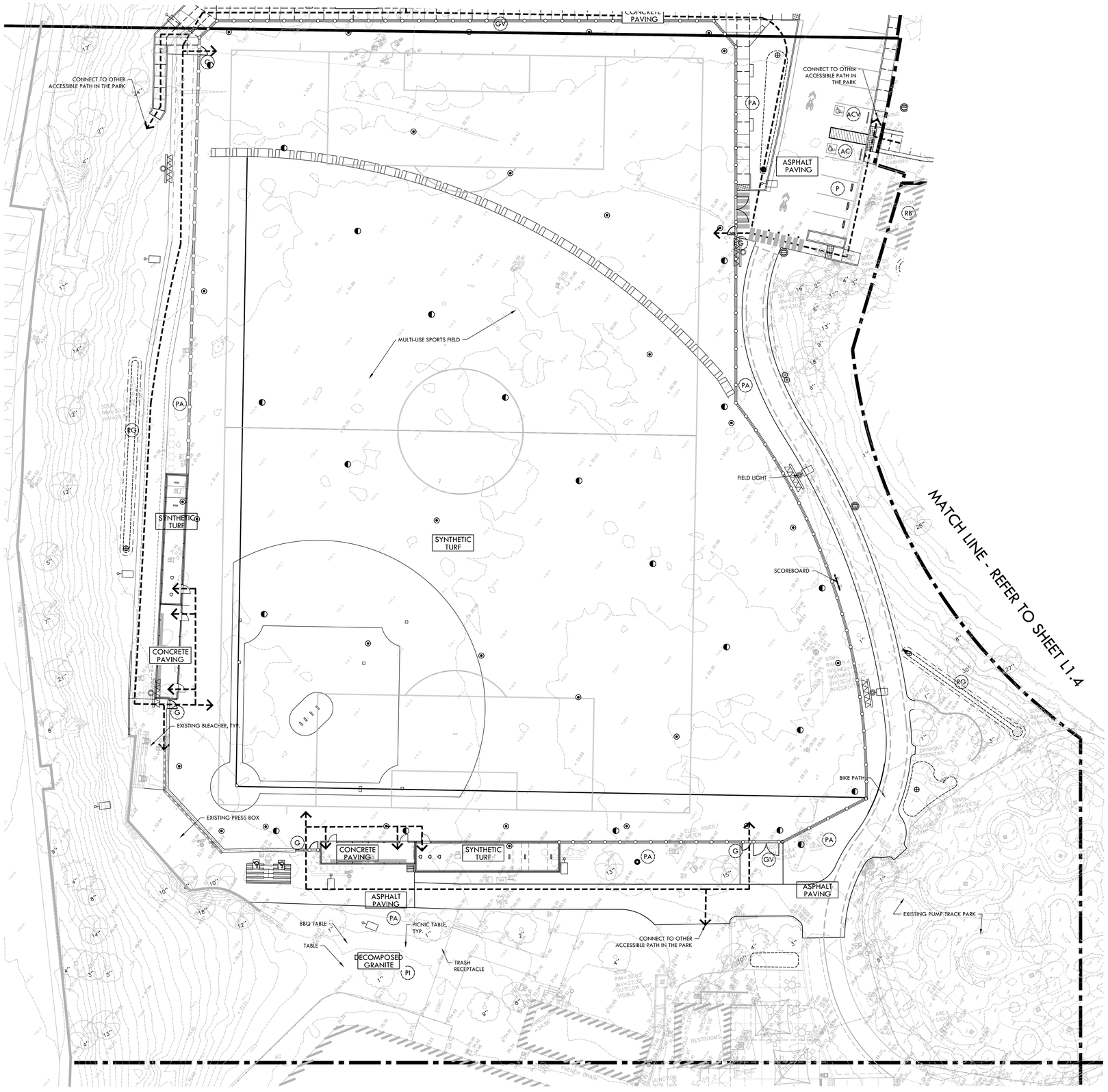
DL

1"=20'-0"

X

L1.1

MATCH LINE - REFER TO SHEET L1.1



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TS	TERRACE SEATING (SPECTATOR AREA)	- -

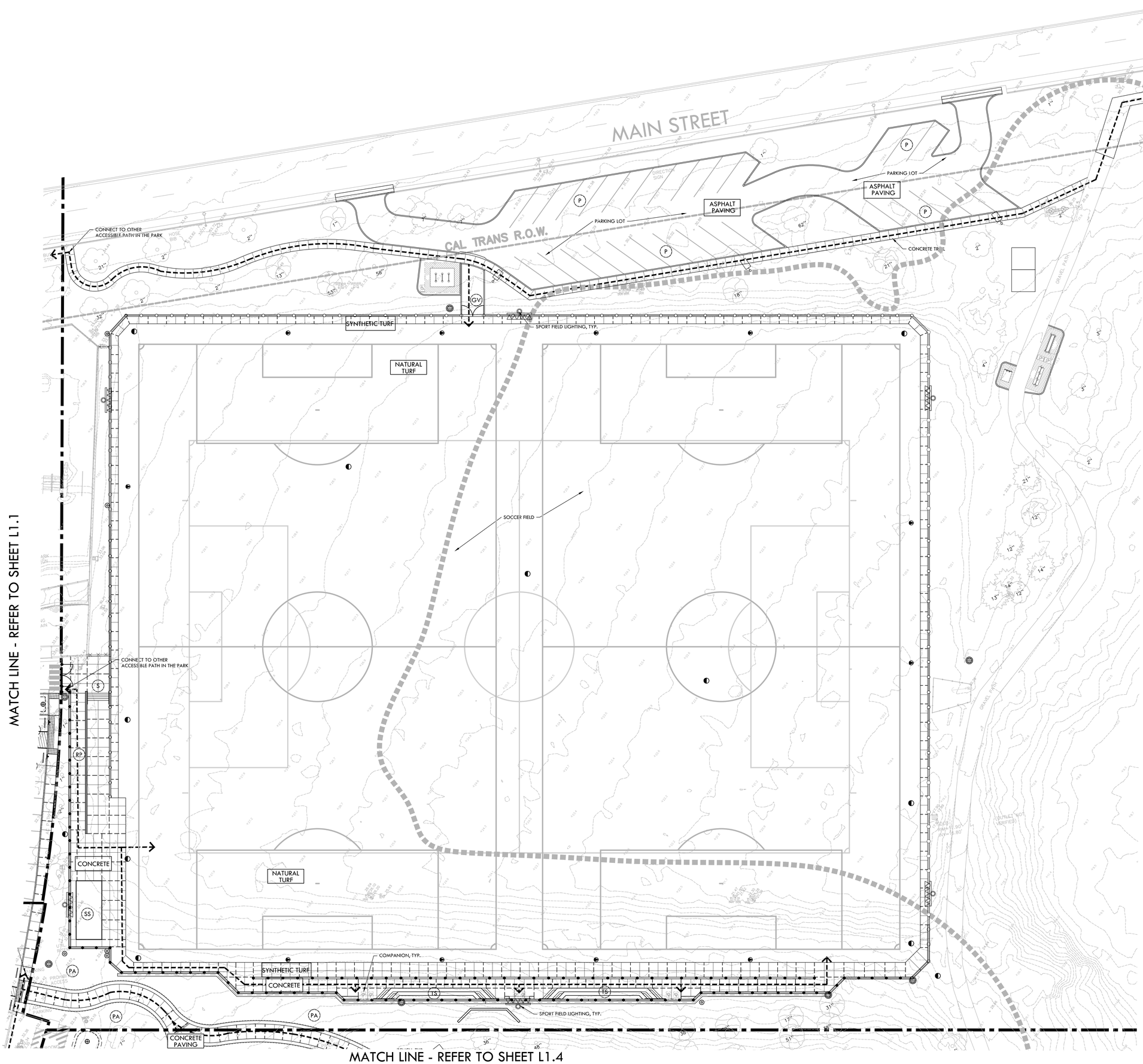
NORTH

0 10' 20' 40' 60'

ACCESSIBILITY PLAN

DL 1"=20'-0" X

L1.2



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TS	TERRACE SEATING (SPECTATOR AREA)	- -

NORTH

0 10' 20' 40' 60'

ACCESSIBILITY PLAN

DL

1"=20'-0"

X

L1.3

MATCH LINE - REFER TO SHEET L1.3

MATCH LINE - REFER TO SHEET L1.2

CONCRETE

SPORT FIELD LIGHTING, TYP.

CONCRETE PAVING

BENCH, TYP.

SIGNAGE

PICNIC TABLE, TYP.

BBQ TABLE, TYP.

ADA PICNIC TABLE, TYP.

TRASH RECEPTACLE, TYP.

TABLE AND CHAIRS

DECOMPOSED GRANITE

WOOD CHIPS SURFACE

EXISTING NATURAL GRASS

PAVER

RUBBER RESILIENCE SURFACE

SYNTHETIC TURF SLOPE

PLAY HOUSE

CONNECT TO OTHER ACCESSIBLE PATH IN THE PARK

MWC PIPELINE MARKERS

ACCESSIBILITY PLAN NOTES

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TS	TERRACE SEATING (SPECTATOR AREA)	- -

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0 10' 20' 40' 60'

ACCESSIBILITY PLAN

DL

1"=20'-0"

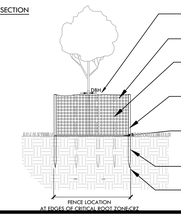
X

L1.4



NOTES:
1. TREE PROTECTION FENCING TO BE INSTALLED PRIOR TO ANY LAND DISTURBANCE ON SITE.
2. LOCATE FENCING AT EDGE OF CRZ, OR AGAINST PAVEMENT EDGES, AS PER APPROVED SITE PLANS
3. FENCING MUST REMAIN THROUGH THE DURATION OF ALL CONSTRUCTION ACTIVITIES, REMOVAL OR RELOCATION OF FENCING FOR TEMPORARY ACCESS MUST BE REPLACED DAILY AND IMMEDIATELY UPON COMPLETION OF WORK REQUIRING ACCESS. TEMPORARY ACCESS MUST BE APPROVED IN ADVANCE BY THE COS'S ARBORIST.
4. ACTIVITIES WITHIN TREE PROTECTION AREA ARE NOT PERMITTED, INCLUDING STAGING OF MATERIALS, PARKING, PEDESTRIAN ACCESS, ETC.
5. WHERE TREE PROTECTION IS ADJACENT TO EROSION CONTROL FENCING, TREE FENCE MUST BE VISIBLE AND AT FULL 4' HEIGHT MIN. ON THE INSIDE OF TREE SAVE AREA.
6. WHERE TREE PROTECTION FENCING ENCROACHES ON CRZ OF EXISTING TREES TO REMAIN, OF ANY SIZE, IN AREAS OF CUTTING GRADE, TREE ROOTS ARE TO BE CUT BELOW GRADE TO DEPTH OF 12" WITH CLEAN SHARPENED IMPLEMENTS.

SECTION



- DBH: DIAMETER BREAST HEIGH, MEASURED AT 4.5' ABOVE FINISH GRADE
- ORANGE LAMINATED SAFETY NETTING OR EQUIVALENT
- USE AS MANY STAKES AS REQUIRED TO EXTEND FENCING TO FURTHEST LIMITS OF CRZ OR AS SHOWN ON PLANS
- SECURE FENCING MATERIAL TO 2x2 P.T. WOOD STAKES OR METAL FENCE POSTS, SPACED AT 6' O.C. MAX.
- PROVIDE 3" MULCH OVER BARE AREAS IN CRITICAL ROOT ZONE, KEEP 6" AWAY FROM BASE OF PLANTS
- STAKES TO BE 4' MIN. ABOVE GRADE. 2' MIN. BELOW GRADE.
- COSS REQUIRES PROTECTED CRZ EQUIVALENT TO 1.25' RADIUS PER 1" DBH, OR AS PER COSS.

E TREE PROTECTION NTS

EROSION AND SEDIMENT CONTROL NOTES

1. EROSION AND SEDIMENT CONTROL SHALL BE CONSTRUCTED DURING FIRST WEEK OF CONSTRUCTION.
2. EROSION AND SEDIMENT CONTROL SHALL REMAIN THROUGHOUT CONSTRUCTION AND BE REMOVED AND DISPOSED OF DURING MAINTENANCE PERIOD.
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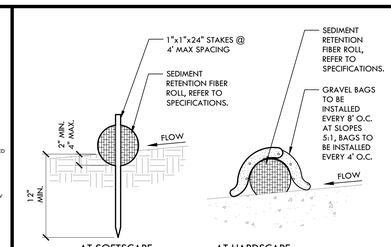
4. CONTRACTOR SHALL SWEEP STREETS AND PARKING AREAS AFFECTED BY CONSTRUCTION WITH STREET SWEEPER, DAILY OR AS REQUIRED TO KEEP PAVING CLEAN OF CONSTRUCTION DEBRIS.
5. FOR DUST CONTROL, REFER TO SPECIFICATIONS.

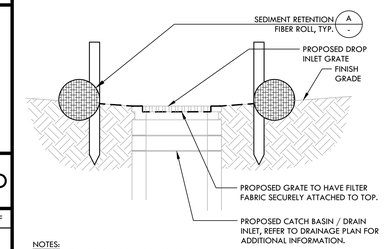
EROSION AND SEDIMENT CONTROL LEGEND

SYM	DESCRIPTION	DTL REF
	LIMIT OF WORK / CONSTRUCTION FENCING, REFER TO SPECIFICATIONS	
	CONSTRUCTION STAGING AREA, REFER TO SPECIFICATIONS → CONTRACTOR EQUIPMENT HAUL ROUTE/ ACCESS	
	STEEL RUMBLE PLATE AT CONSTRUCTION ENTRY	D
	TEMPORARY CONCRETE WASHOUT FACILITY - PROVIDE A WASHOUT BIN FOR CONSTRUCTION WASHOUT AND REMOVE AT END OF CONSTRUCTION.	C
	SEDIMENT RETENTION FIBER FILTER ROLL BARRIER	A
	STORM DRAIN INLET FILTER FABRIC TO BE SECURELY ATTACHED TO DRAINAGE STRUCTURE TOP (EXISTING AND PROPOSED) AND PERIMETER WADDLE.	B
FLOW	DIRECTION OF SURFACE FLOW	



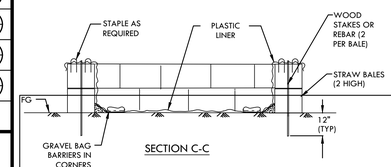
NOTES:
1. INSTALL SEDIMENT RETENTION FIBER ROLLS (FIBER ROLLS / WATTLES) AS LOCATED ON PLANS AND AS REQUIRED PER THE STATE GENERAL PERMIT FOR STORMWATER DISCHARGE.
2. FIBER ROLLS SHALL BE CONSTRUCTED LONG ENOUGH TO EXTEND ACROSS FLOW PATH OF POTENTIAL RUN-OFF AND RUN-ON.
3. PREPARE GRADES REMOVING SURFACE DEVIATIONS, LARGE STONES OR DEBRIS THAT WILL INHIBIT CONTINUOUS CONTACT OF THE FIBER ROLL WITH THE GRADE.
4. PRIOR TO FILTER ROLL INSTALLATION EXCAVATE A CONCAVE TRENCH 2" MIN., 4" MAX. DEEP ALONG THE PROPOSED FIBER ROLL LOCATION.
5. INSTALL FIBER ROLLS WITH CONTINUOUS CONTACT OF THE BOTTOM OF THE EXCAVATED TRENCH.
6. STAKE ROLL ON BOTH SIDES 2' FROM OF ENDS AND AT 4' MAXIMUM SPACING WITH 1"X1"X24" STAKES. DRIVE STAKES IN ON ALTERNATING SIDES OF THE ROLL AND OVERLAP ABUTTING ROLL ENDS 12" MIN.
7. BACKFILLED BOTH SIDES TO WATTLE AND TAMP SOIL TO FIRM AND STABLE..
8. CONTRACTOR SHALL MAKE WEEKLY INSPECTIONS OR AS INDICATED IN STORMWATER POLLUTION PREVENTION PLAN, OR THE STATE GENERAL PERMIT FOR STORMWATER DISCHARGE.

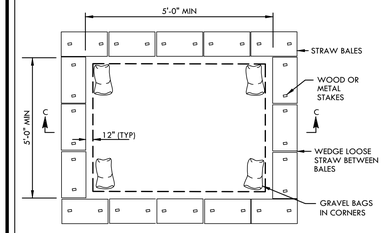
A SEDIMENT RETENTION FIBER ROLL NTS



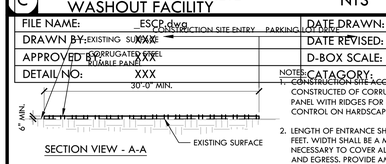
NOTES:
CONTRACTOR TO CONFORM TO SEDIMENT RETENTION FIBER ROLL NOTES PROVIDED IN DETAIL A, THIS SHEET.

B STORM DRAIN INLET FILTER FOR (E) AND PROPOSED STORM DRAINS NTS





C TEMPORARY CONCRETE WASHOUT FACILITY NTS



D CONSTRUCTION ENTRY NTS

NORTH
0 10' 20' 40' 60'

FILE NAME:	ESCP.dwg
DRAWN BY:	EXISTING SURVEY: XXX
APPROVED BY:	CORRUGATED STEEL "RUMBLE" PANEL XXX
DETAIL NO:	XXX
DATE DRAWN:	XXX
DATE REVISED:	XXX
D-BOX SCALE:	UPDATE!
CATAGORY:	XXX

REGISTERED LANDSCAPE ARCHITECT — DEREK MCKEE — No. 4148 — Signature — EXPIRATION DATE: DEC. 2022 — STATE OF CALIFORNIA

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CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

EROSION AND SEDIMENT CONTROL PLANS

Approved by: MARIA ESTHER CARRANZA RODRIGUEZ — Date:
Designed by: — Drawn by: VERDE — Checked by: TY/DM
Job No. 2106300 — Scale 1"=20'-0"
SHEET L2.1 — X of 106

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

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DRAWING NAME: Y:\Projects-SC\2021\2106300 - Watsonville Ramsay Park Improvements\cad_ESCP.dwg
PLOT DATE: 07-01-22 PLOTTED BY: station78

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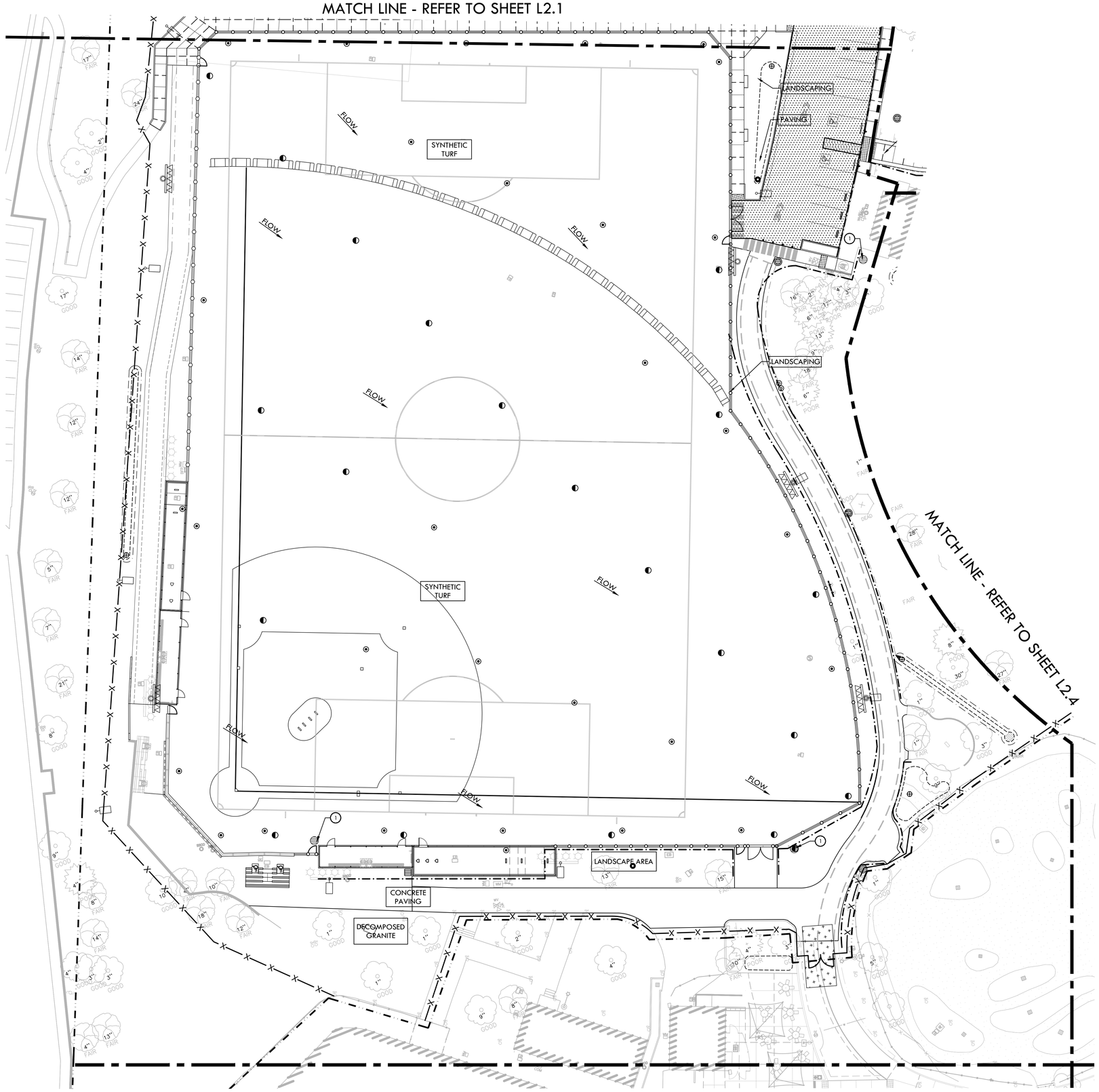

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	STEEL RUMBLE PLATE AT CONSTRUCTION ENTRY	D L2.1
	TEMPORARY CONCRETE WASHOUT FACILITY - PROVIDE A WASHOUT BIN FOR CONSTRUCTION WASHOUT AND REMOVE AT END OF CONSTRUCTION.	C L2.1
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FLOW	DIRECTION OF SURFACE FLOW	

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DEREK MOREE
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Signature
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CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

EROSION AND SEDIMENT CONTROL PLANS

Approved by MARIA ESTHER CARRANZA RODRIGUEZ Date

Designed by
Drawn by VERDE
Checked by TY/DM
Job No. 2106300
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SHEET L2.2
X of 106

VERDE PROJECT NO. 2106300

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MAIN STREET

ASPHALT SURFACE

ASPHALT SURFACE

PAVING

PAVING

NATURAL TURF

NATURAL TURF

FLOW

MATCH LINE - REFER TO SHEET L2.1

MATCH LINE - REFER TO SHEET L2.4

PAVING

LANDSCAPE AREA

PAVING

PAVING

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EROSION AND SEDIMENT CONTROL LEGEND

SYM	DESCRIPTION	DTL REF
X	LIMIT OF WORK / CONSTRUCTION FENCING, REFER TO SPECIFICATIONS	
	CONSTRUCTION STAGING AREA → → CONTRACTOR EQUIPMENT HAUL ROUTE/ ACCESS	
	STEEL RUMBLE PLATE AT CONSTRUCTION ENTRY	D L2.1
	TEMPORARY CONCRETE WASHOUT FACILITY - PROVIDE A WASHOUT BIN FOR CONSTRUCTION WASHOUT AND REMOVE AT END OF CONSTRUCTION.	C L2.1
	SEDIMENT RETENTION FIBER FILTER ROLL BARRIER	A L2.1
	STORM DRAIN INLET FILTER FABRIC TO BE SECURELY ATTACHED TO DRAINAGE STRUCTURE TOP (EXISTING AND PROPOSED) AND PERIMETER WADDLE.	B L2.1
FLOW	DIRECTION OF SURFACE FLOW	

NORTH

0 10' 20' 40' 60'

REGISTERED LANDSCAPE ARCHITECT — DEREK McGEE — No. 4148 — Signature — EXPIRATION DATE: DEC. 2022 — STATE OF CALIFORNIA

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
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fax: 408.985.7260
www.VerdeDesigninc.com

CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

EROSION AND SEDIMENT CONTROL PLANS

Approved by _____ Date _____

MARIA ESTHER CARRANZA RODRIGUEZ

Designed by _____ Job No. 2106300
Drawn by VERDE
Checked by TY/DM
Scale 1"=20'-0"

SHEET L2.3
X of 106

VERDE PROJECT NO. 2106300

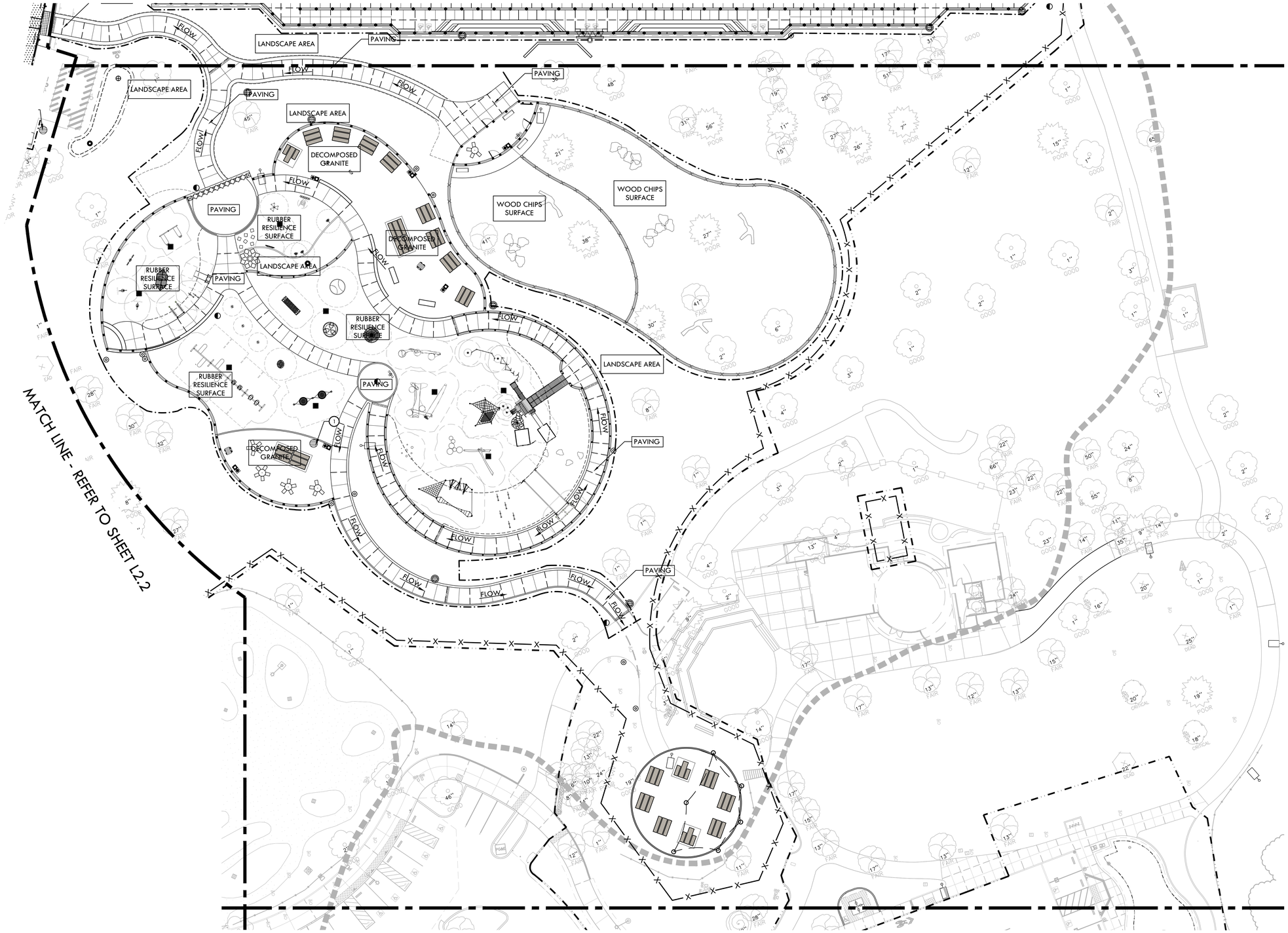
WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

DRAWING NAME: Y:\Projects-SC\2021\2106300 - Watsonville Ramsay Park Improvements\cad_ESCP.dwg
PLOT DATE: 07-01-22 PLOTTED BY: station78

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4

MATCH LINE - REFER TO SHEET L2.3

MATCH LINE - REFER TO SHEET L2.2



EROSION AND SEDIMENT CONTROL NOTES

1. EROSION AND SEDIMENT CONTROL SHALL BE CONSTRUCTED DURING FIRST WEEK OF CONSTRUCTION.
2. EROSION AND SEDIMENT CONTROL SHALL REMAIN THROUGHOUT CONSTRUCTION AND BE REMOVED AND DISPOSED OF DURING MAINTENANCE PERIOD.
3. EROSION AND SEDIMENT CONTROL MAY BE ADJUSTED THROUGH CONSTRUCTION SEQUENCING WITH APPROVAL OR AS DIRECTED BY OWNER'S REPRESENTATIVE.
4. CONTRACTOR SHALL SWEEP STREETS AND PARKING AREAS AFFECTED BY CONSTRUCTION WITH STREET SWEEPER, DAILY OR AS REQUIRED TO KEEP PAVING CLEAN OF CONSTRUCTION DEBRIS.
5. FOR DUST CONTROL, REFER TO SPECIFICATIONS.

EROSION AND SEDIMENT CONTROL LEGEND

SYM	DESCRIPTION	DTL REF
	LIMIT OF WORK / CONSTRUCTION FENCING, REFER TO SPECIFICATIONS	
	CONSTRUCTION STAGING AREA → CONTRACTOR EQUIPMENT HAUL ROUTE/ ACCESS	
	STEEL RUMBLE PLATE AT CONSTRUCTION ENTRY	D (2.1)
	TEMPORARY CONCRETE WASHOUT FACILITY - PROVIDE A WASHOUT BIN FOR CONSTRUCTION WASHOUT AND REMOVE AT END OF CONSTRUCTION.	C (2.1)
	SEDIMENT RETENTION FIBER FILTER ROLL BARRIER	A (2.1)
	STORM DRAIN INLET FILTER FABRIC TO BE SECURELY ATTACHED TO DRAINAGE STRUCTURE TOP (EXISTING AND PROPOSED) AND PERIMETER WADDLE.	B (2.1)
FLOW	DIRECTION OF SURFACE FLOW	

NORTH

0 10' 20' 40' 60'

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CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

EROSION AND SEDIMENT CONTROL PLANS

Approved by: MARIA ESTHER CARRANZA RODRIGUEZ — Date:

Designed by: VERDE — Drawn by: VERDE — Checked by: TY/DM

Job No. 2106300 — Scale 1"=20'-0"

SHEET L2.4 — X of 106

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

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DRAWING NAME: Y:\Projects-SC\2021\2106300 - Watsonville Ramsay Park Improvements\cad_ESCP.dwg
PLOT DATE: 07-01-22 PLOTTED BY: station78

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4



DEMOLITION NOTES

1. THE CONTRACTOR SHALL PERFORM ALL CLEARING, DEMOLITION, REMOVAL OF OBSTRUCTIONS AND SITE PREPARATIONS NECESSARY FOR THE PROPER EXECUTION OF ALL WORK CONTAINED IN THE CONTRACT DOCUMENTS.
2. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES AND PROVIDE THE REQUIRED COORDINATION FOR THEIR TEMPORARY DISCONNECTION, PROTECTION, REMOVAL AND/OR STORAGE AS MAY BE REQUIRED DURING CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH THE OWNER TO DETERMINE WHETHER TEMPORARY SERVICES ARE NECESSARY. POT HOLE TO LOCATE UNDERGROUND UTILITIES AND IRRIGATION PRIOR TO PERFORMING THE PROPOSED WORK. POT HOLING SHOULD BE PERFORMED WITH VACUUM EQUIPMENT OR HAND DIGGING, NOT MECHANIZED EQUIPMENT.
3. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID SUBMITTAL TO DETERMINE THE EXACT EXTENT AND DEPTH OF SITE DEMOLITION REQUIRED AND VERIFY COMPLIANCE WITH DRAWINGS. THE OWNER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
4. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THE CONTRACT DOCUMENTS SHALL BE DEEMED TO BE APPROXIMATIONS ONLY. ALL DISCREPANCIES BETWEEN WHAT IS SHOWN AND THE ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AT (800) 227-2600 PRIOR TO ANY DEMOLITION OR EXCAVATION. UPON COMPLETION OF USA MARKING OPERATIONS, CONTRACTOR SHALL RECORD ALL UTILITY MARKINGS ON A SEPARATE SET OF DRAWINGS. THIS SET SHALL BE KEPT ON-SITE FOR REFERENCE FOR DURATION OF CONTRACT. NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY SHOULD CONFLICTS ARISE AND REDIRECT WORK TO AVOID DELAY.
5. ALL EXISTING ITEMS ARE TO REMAIN UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING, AT CONTRACTOR'S EXPENSE, ANY EXISTING ITEM DAMAGED OR DESTROYED BY CONSTRUCTION OPERATIONS. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY AND ALL DAMAGES TO ADJACENT PROPERTIES. THE DAMAGED ITEMS SHALL BE RESTORED TO AN "AS-WAS" OR BETTER CONDITION OR REPLACED PER THE DISCRETION OF THE OWNER'S REPRESENTATIVE.
6. PRIOR TO ANY DEMOLITION WORK, CONTRACTOR SHALL INSTALL SELF-SUPPORTING INTERLOCKING CHAIN-LINK TEMPORARY CONSTRUCTION FENCING TO ENCLOSE AND SECURE THE PROJECT AREAS. THE FENCING SHALL CONTAIN PEDESTRIAN AND/OR VEHICULAR ACCESS GATES AS NECESSARY AND SHALL BE MINIMUM 6 FEET HIGH WITH A TOP AND BOTTOM RAIL WITH KNUCKLED TOP AND BOTTOM SELVAGE (NO BARBED WIRE PERMITTED). FENCE SHALL INCLUDE FULL HEIGHT GREEN SHADE CLOTH COVERING. THE CONSTRUCTION FENCING WORK EXTENT AND LOCATION SHALL BE SUBJECT TO THE DISCRETION OF THE OWNER'S REPRESENTATIVE.
7. PRIOR TO ANY DEMOLITION WORK, CONTRACTOR SHALL PROTECT ALL EXISTING PLANT MATERIAL NOT SCHEDULED FOR REMOVAL BY INSTALLING TEMPORARY 4 FOOT HIGH "BLAZE ORANGE" CONSTRUCTION SAFETY FENCING AT THE DRIP LINE OR PERIMETER. THE FENCING SHALL BE SECURED WITH DRIVEN METAL STAKES. ALL TREE PROTECTION WORK SHALL BE SUBJECT TO THE DISCRETION OF THE OWNER'S REPRESENTATIVE.
8. DEMOLITION SHALL INCLUDE THE REMOVAL OF ITEM AND ANY FOUNDATION OR STRUCTURAL SUPPORT RELATED TO ITEM. FOR PLANT MATERIAL, THIS SHALL INCLUDE STUMPS AND ROOTS OVER 2 INCHES IN DIAMETER. DISPOSAL SHALL BE OFF-SITE IN A LEGAL MANNER ACCEPTABLE TO THE OWNER'S REPRESENTATIVE AND IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.
9. REFER TO SPECIFICATIONS FOR ADDITIONAL CLEARING, GRUBBING, TOPSOIL STOCKPILING AND OTHER PERTINENT INFORMATION.

ITEMS TO BE DEMOLISHED AND/OR REMOVED

(40)	EXISTING PRESS BOX TO BE DEMOLISHED AND REMOVED

ITEMS TO REMAIN AND BE PROTECTED

A	EXISTING SIDEWALK TO REMAIN AND BE PROTECTED
B	EXISTING CURB TO REMAIN AND BE PROTECTED
C	EXISTING CONCRETE CURB AND GUTTER TO REMAIN AND BE PROTECTED
D	EXISTING ASPHALT CURB AND SIDEWALK TO REMAIN AND BE PROTECTED
E	EXISTING CROSS STRIPING TO REMAIN AND BE PROTECTED
F	EXISTING HARDSCAPE TO REMAIN AND BE PROTECTED
G	EXISTING PLANTER TO REMAIN AND BE PROTECTED
H	EXISTING TERRACE WALL TO REMAIN AND BE PROTECTED
I	EXISTING STAIRS TO REMAIN AND BE PROTECTED
J	EXISTING ORNAMENTAL FENCE TO REMAIN AND BE PROTECTED
K	EXISTING RESTROOM TO REMAIN AND BE PROTECTED
L	EXISTING DRINKING FOUNTAIN TO REMAIN AND BE PROTECTED
M	EXISTING TALL CURB TO REMAIN AND BE PROTECTED
N	EXISTING SPLIT RAIL FENCE TO REMAIN AND BE PROTECTED
O	EXISTING BACKSTOP TO REMAIN AND BE PROTECTED
P	EXISTING DRAIN INLET TO BE REMOVED AND SALVAGED FOR FUTURE USE
Q	EXISTING STREET LIGHT TO REMAIN AND BE PROTECTED
R	EXISTING DIRECTION SIGN TO REMAIN AND BE PROTECTED
S	EXISTING EXTENSION POLE TO REMAIN AND BE PROTECTED
T	EXISTING FENCE AND GATE TO REMAIN AND BE PROTECTED
U	EXISTING BACK FLOW PREVENTOR TO REMAIN AND BE PROTECTED
V	EXISTING IRRIGATION VALVE TO REMAIN AND BE PROTECTED
W	EXISTING SANITARY SEWER LINE TO REMAIN AND BE PROTECTED
X	EXISTING SANITARY SEWER CLEANOUT TO REMAIN AND BE PROTECTED. ADJUST TO NEW GRADE ELEVATION AS NECESSARY
Y	EXISTING SANITARY SEWER MANHOLE TO REMAIN AND BE PROTECTED. ADJUST TO NEW GRADE ELEVATION AS NECESSARY
Z	EXISTING CATCH BASIN TO REMAIN AND BE PROTECTED. ADJUST TO NEW GRADE ELEVATION AS NECESSARY
AA	EXISTING STORM DRAIN LINE TO REMAIN AND BE PROTECTED
AB	EXISTING ELECTRICAL LINE TO REMAIN AND BE PROTECTED
AC	EXISTING COMMUNICATION LINE TO REMAIN AND BE PROTECTED
AD	EXISTING ELECTRICAL BOX TO REMAIN AND BE PROTECTED
AE	EXISTING WATER VALVE TO REMAIN AND BE PROTECTED
AF	EXISTING WATER METER TO REMAIN AND BE PROTECTED
AG	EXISTING WATER LINE TO REMAIN AND BE PROTECTED. CAP WATER LINE AT ABANDONED LOCATIONS.
AH	EXISTING ABANDONED GAS LINE TO REMAIN AND BE PROTECTED. CONTRACTOR TO POTHOLE AND LOCATED THE GAS LINE. RECORD SIZE, DEPTH, MATERIAL AND LOCATION OF LINE AND REPORT FINDINGS
AI	EXISTING ACTIVE GAS LINE TO REMAIN AND BE PROTECTED. CONTRACTOR TO POTHOLE AND LOCATE THE GAS LINE. RECORD SIZE, DEPTH, MATERIAL AND LOCATION OF LINE AND REPORT FINDINGS
AJ	POTHOLE AND LOCATE THE EXISTING WATER LINE. RECORD SIZE, DEPTH, MATERIAL AND LOCATION OF LINE AND REPORT FINDINGS
AK	POTHOLE AND LOCATE THE EXISTING STORM DRAIN LINE. RECORD SIZE, DEPTH, MATERIAL AND LOCATION OF LINE AND REPORT FINDINGS
AL	POTHOLE AND LOCATE THE EXISTING SANITARY SEWER LINE. RECORD SIZE, DEPTH, MATERIAL AND LOCATION OF LINE AND REPORT FINDINGS

DEMOLITION LEGEND

SYM	DESCRIPTION
X X	LIMIT OF WORK / CONSTRUCTION FENCING, REFER TO SPECIFICATIONS. CONSTRUCTION FENCING LOCATION SHALL BE DETERMINED IN FIELD AS PER CITY REPRESENTATIVE'S DIRECTION.
	SAWCUT EXISTING CONCRETE / ASPHALT PAVING, REFER TO SPECIFICATIONS.
	CLEAR AND GRUB, REFER TO SPECIFICATIONS.
	EXISTING HARDSCAPE INCLUDING BASE MATERIAL TO BE DEMOLISHED AND REMOVED.
	REMOVE EXISTING INFIELD FINES, REFER TO SPECIFICATIONS.
	EXISTING ASPHALT PAVING SHALL BE CLEANED AND PREPARED FOR CRACK SEALANT AND SLURRY SEAL COAT, REFER TO SPECIFICATIONS.
⊗	REMOVE EXISTING TREES INCLUDING STUMPS, REFER TO SPECIFICATIONS.
P	EXISTING TREES TO REMAIN AND BE PROTECTED. ANY CLEAR AND GRUB WORK WITHIN TREE PROTECTION FENCING TO BE DONE BY HAND ONLY, REFER TO SPECIFICATIONS.

UTILITIES AS-BUILT

	STORM DRAIN LINE		WATER LINE
	SANITARY SEWER LINE	RCP	REINFORCED CONCRETE PIPE
	ELECTRICAL CONDUIT	IRR	IRRIGATION MAIN LINE

UTILITIES SURVEY

	EXISTING STORM DRAIN LINE		EXISTING ELECTRICAL CONDUIT EXISTING COMMUNICATION LINE
	EXISTING WATER LINE		EXISTING ACTIVE GAS LINE
	EXISTING SANITARY SEWER LINE		EXISTING IRRIGATION LINE
	EXISTING OVERHEAD UTILITY LINE		EXISTING ABANDONED GAS LINE

ITEMS TO BE DEMOLISHED AND/OR REMOVED

(1)	EXISTING CURB TO BE DEMOLISHED AND REMOVED
(2)	EXISTING CONCRETE CURB AND GUTTER TO BE DEMOLISHED AND REMOVED
(3)	EXISTING COBBLESTONE MEDIAN TO BE DEMOLISHED AND REMOVED
(4)	EXISTING BOLLARD INCLUDING FOOTING TO BE DEMOLISHED AND REMOVED
(5)	EXISTING PARK SIGN TO BE REMOVED, SALVAGED AND RETURN BACK TO CITY
(6)	EXISTING ADA PARKING SIGN TO BE REMOVED, SALVAGED AND REINSTALLED PER MATERIAL PLAN
(7)	EXISTING WHEEL STOP TO BE REMOVED, SALVAGED AND REINSTALLED PER MATERIAL PLAN
(8)	EXISTING FENCE, INCLUDING ALL FOOTINGS, FABRIC, POSTS, GATES, HARDWARE, AND FITTINGS TO BE DEMOLISHED AND REMOVED. EXISTING SIGNAGE ON FENCE TO BE SALVAGED AND REINSTALLED. CONTRACTOR TO COORDINATE WITH CITY REPRESENTATIVE ON PROPOSED LOCATION
(9)	EXISTING NETTING, INCLUDING ALL POSTS, FOOTINGS, FABRIC, HARDWARE AND FITTINGS TO BE DEMOLISHED AND REMOVED
(10)	EXISTING METAL PIPE RAIL TO BE DEMOLISHED AND REMOVED
(11)	EXISTING FLAG POLE TO BE REMOVED, SALVAGED AND REINSTALLED PER MATERIAL PLAN
(12)	EXISTING BRICK PLANTER TO BE DEMOLISHED AND REMOVED
(13)	EXISTING PARKING LOT LIGHT TO BE DEMOLISHED AND REMOVED
(14)	EXISTING PEDESTRIAN LIGHT TO BE DEMOLISHED AND REMOVED
(15)	EXISTING SPORT FIELD LIGHT TO BE REMOVED, SALVAGED AND REINSTALLED PER MUSCO PLAN
(16)	EXISTING VEHICULAR GATE AND ASSOCIATED CONTROL BOX AND POSTS TO BE REMOVED, SALVAGED AND RETURN BACK TO CITY
(17)	EXISTING SCOREBOARD TO BE REMOVED, SALVAGED AND REINSTALLED PER MATERIAL PLAN
(18)	EXISTING DUGOUT ROOF TO BE DEMOLISHED AND REMOVED
(19)	EXISTING STORAGE SHED TO BE REMOVED, SALVAGED AND REINSTALLED PER THE MATERIAL PLAN
(20)	EXISTING PICNIC TABLE TO BE REMOVED, SALVAGED AND RETURN TO CITY
(21)	EXISTING TRASH RECEPTACLE TO BE REMOVED, SALVAGED AND REINSTALLED PER THE MATERIAL PLAN
(22)	EXISTING TRASH CAN TO BE DEMOLISHED AND REMOVED
(23)	EXISTING LAY STRUCTURE TO BE DEMOLISHED AND REMOVED
(24)	EXISTING CONCRETE RAMP TO BE DEMOLISHED AND REMOVED
(25)	EXISTING FENCE WITH SLATE TO BE DEMOLISHED AND REMOVED
(26)	EXISTING TRASH BIN TO BE REMOVED, SALVAGED AND RETURN TO CITY
(27)	EXISTING STAINLESS STEEL SLIDE TO BE REMOVED, SALVAGED, AND REINSTALLED PER CONSTRUCTION DOCUMENTS
(28)	EXISTING HISTORIC WATER PUMP TO BE REMOVED, SALVAGED AND REINSTALLED PER CONSTRUCTION DOCUMENTS
(29)	EXISTING CATCH BASIN FOR CAR WASH TO BE DEMOLISHED AND REMOVED
(30)	EXISTING SANITARY SEWER LINE TO BE DEMOLISHED, REMOVED AND CAPPED.
(31)	EXISTING STORM DRAIN PIPE TO BE DEMOLISHED AND REMOVED
(32)	EXISTING CONCRETE SWALE TO BE DEMOLISHED AND REMOVED
(33)	EXISTING IRRIGATION HEAD TO BE REMOVED, SALVAGED AND RETURN TO CITY
(34)	EXISTING IRRIGATION LINE TO BE DEMOLISHED AND REMOVED. CONTRACTOR TO CUT AND CAP EXISTING IRRIGATION MAIN LINE OR LATERAL LINE. THE VALVES TO BE RELOCATED AS NECESSARY.
(35)	EXISTING ELECTRICAL LINE TO BE DEMOLISHED AND REMOVED
(36)	EXISTING ELECTRICAL PULL BOX TO BE DEMOLISHED AND REMOVED
(37)	EXISTING COMMUNICATION LINE TO BE DEMOLISHED AND REMOVED
(38)	EXISTING BBQ TABLE TO BE DEMOLISHED AND REMOVED
(39)	EXISTING IRRIGATION VALVE TO BE DEMOLISHED AND REMOVED

NORTH
0 10' 20' 40' 60'

REGISTERED LANDSCAPE ARCHITECT — DEREK MCREE — No. 4148 — Signature — EXPIRATION DATE: DEC. 2022 — STATE OF CALIFORNIA

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PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

DEMOLITION PLANS

Approved by _____ Date _____
MARIA ESTHER CARRANZA RODRIGUEZ

Designed by DL | Job No. 2106300 | SHEET L3.1
Drawn by DL | Scale 1"=20'-0" | X of 106
Checked by TY/DM

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

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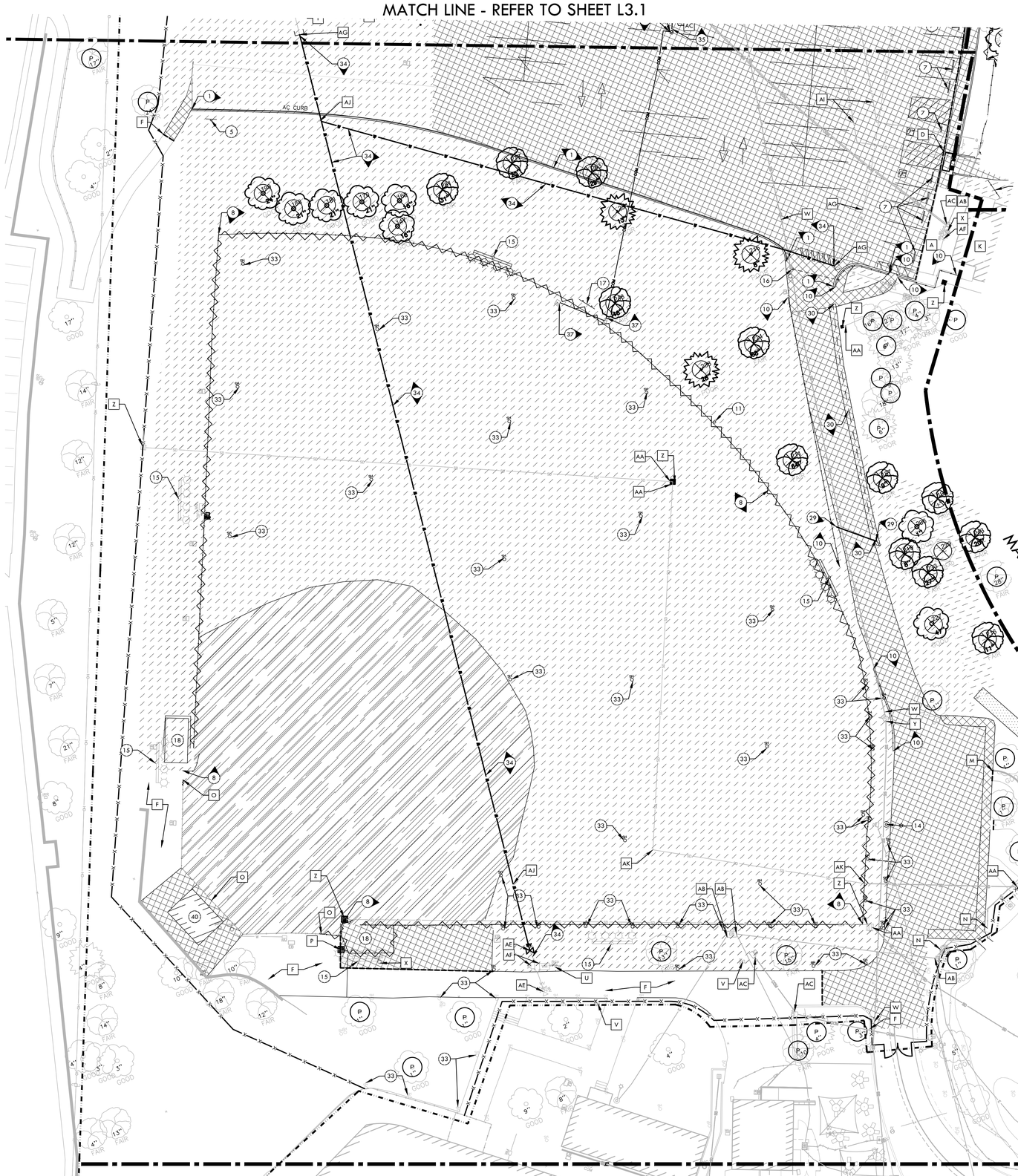
DRAWING NAME: Y:\Projects-SC\2021\2106300 - Watsonville Ramsay Park Improvements\CAD_DEM.dwg
PLOT DATE: 07-01-22 PLOTTED BY: station78

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4



DEMOLITION NOTES

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6. PRIOR TO ANY DEMOLITION WORK, CONTRACTOR SHALL INSTALL SELF-SUPPORTING INTERLOCKING CHAIN-LINK TEMPORARY CONSTRUCTION FENCING TO ENCLOSE AND SECURE THE PROJECT AREAS. THE FENCING SHALL CONTAIN PEDESTRIAN AND/OR VEHICULAR ACCESS GATES AS NECESSARY AND SHALL BE MINIMUM 6 FEET HIGH WITH A TOP AND BOTTOM RAIL WITH KNUCKLED TOP AND BOTTOM SELVAGE (NO BARBED WIRE PERMITTED). FENCE SHALL INCLUDE FULL HEIGHT GREEN SHADE CLOTH COVERING. THE CONSTRUCTION FENCING WORK EXTENT AND LOCATION SHALL BE SUBJECT TO THE DISCRETION OF THE OWNER'S REPRESENTATIVE.
7. PRIOR TO ANY DEMOLITION WORK, CONTRACTOR SHALL PROTECT ALL EXISTING PLANT MATERIAL NOT SCHEDULED FOR REMOVAL BY INSTALLING TEMPORARY 4 FOOT HIGH "BLAZE ORANGE" CONSTRUCTION SAFETY FENCING AT THE DRIP LINE OR PERIMETER. THE FENCING SHALL BE SECURED WITH DRIVEN METAL STAKES. ALL TREE PROTECTION WORK SHALL BE SUBJECT TO THE DISCRETION OF THE OWNER'S REPRESENTATIVE.
8. DEMOLITION SHALL INCLUDE THE REMOVAL OF ITEM AND ANY FOUNDATION OR STRUCTURAL SUPPORT RELATED TO ITEM. FOR PLANT MATERIAL, THIS SHALL INCLUDE STUMPS AND ROOTS OVER 2 INCHES IN DIAMETER. DISPOSAL SHALL BE OFF-SITE IN A LEGAL MANNER ACCEPTABLE TO THE OWNER'S REPRESENTATIVE AND IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.
9. REFER TO SPECIFICATIONS FOR ADDITIONAL CLEARING, GRUBBING, TOPSOIL STOCKPILING AND OTHER PERTINENT INFORMATION.

ITEMS TO BE DEMOLISHED AND/OR REMOVED

(40)	EXISTING PRESS BOX TO BE DEMOLISHED AND REMOVED

ITEMS TO REMAIN AND BE PROTECTED

A	EXISTING SIDEWALK TO REMAIN AND BE PROTECTED
B	EXISTING CURB TO REMAIN AND BE PROTECTED
C	EXISTING CONCRETE CURB AND GUTTER TO REMAIN AND BE PROTECTED
D	EXISTING ASPHALT CURB AND SIDEWALK TO REMAIN AND BE PROTECTED
E	EXISTING CROSS STRIPING TO REMAIN AND BE PROTECTED
F	EXISTING HARDSCAPE TO REMAIN AND BE PROTECTED
G	EXISTING PLANTER TO REMAIN AND BE PROTECTED
H	EXISTING TERRACE WALL TO REMAIN AND BE PROTECTED
I	EXISTING STAIRS TO REMAIN AND BE PROTECTED
J	EXISTING ORNAMENTAL FENCE TO REMAIN AND BE PROTECTED
K	EXISTING RESTROOM TO REMAIN AND BE PROTECTED
L	EXISTING DRINKING FOUNTAIN TO REMAIN AND BE PROTECTED
M	EXISTING TALL CURB TO REMAIN AND BE PROTECTED
N	EXISTING SPLIT RAIL FENCE TO REMAIN AND BE PROTECTED
O	EXISTING BACKSTOP TO REMAIN AND BE PROTECTED
P	EXISTING DRAIN INLET TO BE REMOVED AND SALVAGED FOR FUTURE USE
Q	EXISTING STREET LIGHT TO REMAIN AND BE PROTECTED
R	EXISTING DIRECTION SIGN TO REMAIN AND BE PROTECTED
S	EXISTING EXTENSION POLE TO REMAIN AND BE PROTECTED
T	EXISTING FENCE AND GATE TO REMAIN AND BE PROTECTED
U	EXISTING BACK FLOW PREVENTOR TO REMAIN AND BE PROTECTED
V	EXISTING IRRIGATION VALVE TO REMAIN AND BE PROTECTED
W	EXISTING SANITARY SEWER LINE TO REMAIN AND BE PROTECTED
X	EXISTING SANITARY SEWER CLEANOUT TO REMAIN AND BE PROTECTED. ADJUST TO NEW GRADE ELEVATION AS NECESSARY
Y	EXISTING SANITARY SEWER MANHOLE TO REMAIN AND BE PROTECTED. ADJUST TO NEW GRADE ELEVATION AS NECESSARY
Z	EXISTING CATCH BASIN TO REMAIN AND BE PROTECTED. ADJUST TO NEW GRADE ELEVATION AS NECESSARY
AA	EXISTING STORM DRAIN LINE TO REMAIN AND BE PROTECTED
AB	EXISTING ELECTRICAL LINE TO REMAIN AND BE PROTECTED
AC	EXISTING COMMUNICATION LINE TO REMAIN AND BE PROTECTED
AD	EXISTING ELECTRICAL BOX TO REMAIN AND BE PROTECTED
AE	EXISTING WATER VALVE TO REMAIN AND BE PROTECTED
AF	EXISTING WATER METER TO REMAIN AND BE PROTECTED
AG	EXISTING WATER LINE TO REMAIN AND BE PROTECTED. CAP WATER LINE AT ABANDONED LOCATIONS.
AH	EXISTING ABANDONED GAS LINE TO REMAIN AND BE PROTECTED. CONTRACTOR TO POTHOLE AND LOCATED THE GAS LINE. RECORD SIZE, DEPTH, MATERIAL AND LOCATION OF LINE AND REPORT FINDINGS
AI	EXISTING ACTIVE GAS LINE TO REMAIN AND BE PROTECTED. CONTRACTOR TO POTHOLE AND LOCATE THE GAS LINE. RECORD SIZE, DEPTH, MATERIAL AND LOCATION OF LINE AND REPORT FINDINGS
AJ	POTHOLE AND LOCATE THE EXISTING WATER LINE. RECORD SIZE, DEPTH, MATERIAL AND LOCATION OF LINE AND REPORT FINDINGS
AK	POTHOLE AND LOCATE THE EXISTING STORM DRAIN LINE. RECORD SIZE, DEPTH, MATERIAL AND LOCATION OF LINE AND REPORT FINDINGS
AL	POTHOLE AND LOCATE THE EXISTING SANITARY SEWER LINE. RECORD SIZE, DEPTH, MATERIAL AND LOCATION OF LINE AND REPORT FINDINGS

DEMOLITION LEGEND

SYM	DESCRIPTION
X X	LIMIT OF WORK / CONSTRUCTION FENCING, REFER TO SPECIFICATIONS. CONSTRUCTION FENCING LOCATION SHALL BE DETERMINED IN FIELD AS PER CITY REPRESENTATIVE'S DIRECTION.
	SAWCUT EXISTING CONCRETE / ASPHALT PAVING, REFER TO SPECIFICATIONS.
	CLEAR AND GRUB, REFER TO SPECIFICATIONS.
	EXISTING HARDSCAPE INCLUDING BASE MATERIAL TO BE DEMOLISHED AND REMOVED.
	REMOVE EXISTING INFIELD FINES, REFER TO SPECIFICATIONS.
	EXISTING ASPHALT PAVING SHALL BE CLEANED AND PREPARED FOR CRACK SEALANT AND SLURRY SEAL COAT, REFER TO SPECIFICATIONS.
	REMOVE EXISTING TREES INCLUDING STUMPS, REFER TO SPECIFICATIONS.
P	EXISTING TREES TO REMAIN AND BE PROTECTED. ANY CLEAR AND GRUB WORK WITHIN TREE PROTECTION FENCING TO BE DONE BY HAND ONLY, REFER TO SPECIFICATIONS.

UTILITIES AS-BUILT

	STORM DRAIN LINE		WATER LINE
	SANITARY SEWER LINE		REINFORCED CONCRETE PIPE
	ELECTRICAL CONDUIT	IRR	IRRIGATION MAIN LINE

UTILITIES SURVEY

	EXISTING STORM DRAIN LINE		EXISTING ELECTRICAL CONDUIT EXISTING COMMUNICATION LINE
	EXISTING WATER LINE		EXISTING ACTIVE GAS LINE
	EXISTING SANITARY SEWER LINE		EXISTING IRRIGATION LINE
	EXISTING OVERHEAD UTILITY LINE		EXISTING ABANDONED GAS LINE

ITEMS TO BE DEMOLISHED AND/OR REMOVED

1	EXISTING CURB TO BE DEMOLISHED AND REMOVED
2	EXISTING CONCRETE CURB AND GUTTER TO BE DEMOLISHED AND REMOVED
3	EXISTING COBBLESTONE MEDIAN TO BE DEMOLISHED AND REMOVED
4	EXISTING BOLLARD INCLUDING FOOTING TO BE DEMOLISHED AND REMOVED
5	EXISTING PARK SIGN TO BE REMOVED, SALVAGED AND RETURN BACK TO CITY
6	EXISTING ADA PARKING SIGN TO BE REMOVED, SALVAGED AND REINSTALLED PER MATERIAL PLAN
7	EXISTING WHEEL STOP TO BE REMOVED, SALVAGED AND REINSTALLED PER MATERIAL PLAN
8	EXISTING FENCE, INCLUDING ALL FOOTINGS, FABRIC, POSTS, GATES, HARDWARE, AND FITTINGS TO BE DEMOLISHED AND REMOVED. EXISTING SIGNAGE ON FENCE TO BE SALVAGED AND REINSTALLED. CONTRACTOR TO COORDINATE WITH CITY REPRESENTATIVE ON PROPOSED LOCATION
9	EXISTING NETTING, INCLUDING ALL POSTS, FOOTINGS, FABRIC, HARDWARE AND FITTINGS TO BE DEMOLISHED AND REMOVED
10	EXISTING METAL PIPE RAIL TO BE DEMOLISHED AND REMOVED
11	EXISTING FLAG POLE TO BE REMOVED, SALVAGED AND REINSTALLED PER MATERIAL PLAN
12	EXISTING BRICK PLANTER TO BE DEMOLISHED AND REMOVED
13	EXISTING PARKING LOT LIGHT TO BE DEMOLISHED AND REMOVED
14	EXISTING PEDESTRIAN LIGHT TO BE DEMOLISHED AND REMOVED
15	EXISTING SPORT FIELD LIGHT TO BE REMOVED, SALVAGED AND REINSTALLED PER MUSCO PLAN
16	EXISTING VEHICULAR GATE AND ASSOCIATED CONTROL BOX AND POSTS TO BE REMOVED, SALVAGED AND RETURN BACK TO CITY
17	EXISTING SCOREBOARD TO BE REMOVED, SALVAGED AND REINSTALLED PER MATERIAL PLAN
18	EXISTING DUGOUT ROOF TO BE DEMOLISHED AND REMOVED
19	EXISTING STORAGE SHED TO BE REMOVED, SALVAGED AND REINSTALLED PER THE MATERIAL PLAN
20	EXISTING PICNIC TABLE TO BE REMOVED, SALVAGED AND RETURN TO CITY
21	EXISTING TRASH RECEPTACLE TO BE REMOVED, SALVAGED AND REINSTALLED PER THE MATERIAL PLAN
22	EXISTING TRASH CAN TO BE DEMOLISHED AND REMOVED
23	EXISTING LAY STRUCTURE TO BE DEMOLISHED AND REMOVED
24	EXISTING CONCRETE RAMP TO BE DEMOLISHED AND REMOVED
25	EXISTING FENCE WITH SLATE TO BE DEMOLISHED AND REMOVED
26	EXISTING TRASH BIN TO BE REMOVED, SALVAGED AND RETURN TO CITY
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REGISTERED LANDSCAPE ARCHITECT
DEREK MORE
No. 4148
Signature
EXPIRATION DATE: DEC. 2022
STATE OF CALIFORNIA

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
2455 The Alameda
Santa Clara, CA 95050
tel: 408.985.7200
fax: 408.985.7260
www.VerdeDesigninc.com

CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

DEMOLITION PLANS

Approved by _____ Date _____
MARIA ESTHER CARRANZA RODRIGUEZ

Designed by _____
Drawn by DL
Checked by TY/DM
Job No. 2106300
Scale 1"=20'-0"
SHEET L3.2
X of 106

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE PRIOR WRITTEN PERMISSION OF VERDE DESIGN, INC.

DRAWING NAME: Y:\Projects-SC\2021\2106300 - Watsonville Ramsay Park Improvements\CAD_DEM.dwg
PLOT DATE: 07-01-22 PLOTTED BY: station78

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES
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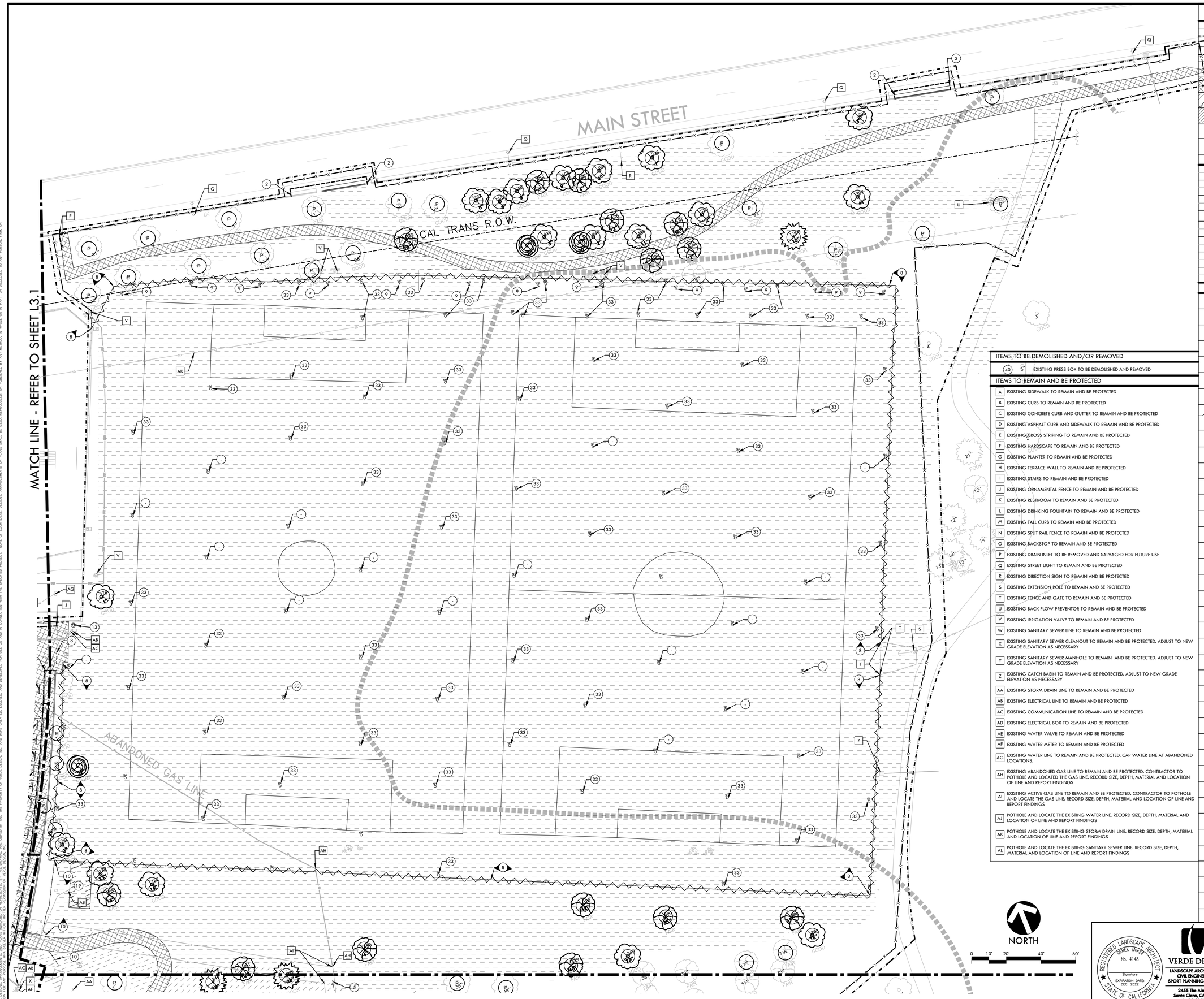

DEMOLITION LEGEND

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UTILITIES AS-BUILT

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	SANITARY SEWER LINE		REINFORCED CONCRETE PIPE
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UTILITIES SURVEY

	EXISTING STORM DRAIN LINE		EXISTING ELECTRICAL CONDUIT EXISTING COMMUNICATION LINE
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39	EXISTING IRRIGATION VALVE TO BE DEMOLISHED AND REMOVED

ITEMS TO BE DEMOLISHED AND/OR REMOVED

40	5"	EXISTING PRESS BOX TO BE DEMOLISHED AND REMOVED

ITEMS TO REMAIN AND BE PROTECTED

A	EXISTING SIDEWALK TO REMAIN AND BE PROTECTED
B	EXISTING CURB TO REMAIN AND BE PROTECTED
C	EXISTING CONCRETE CURB AND GUTTER TO REMAIN AND BE PROTECTED
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H	EXISTING TERRACE WALL TO REMAIN AND BE PROTECTED
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K	EXISTING RESTROOM TO REMAIN AND BE PROTECTED
L	EXISTING DRINKING FOUNTAIN TO REMAIN AND BE PROTECTED
M	EXISTING TALL CURB TO REMAIN AND BE PROTECTED
N	EXISTING SPLIT RAIL FENCE TO REMAIN AND BE PROTECTED
O	EXISTING BACKSTOP TO REMAIN AND BE PROTECTED
P	EXISTING DRAIN INLET TO BE REMOVED AND SALVAGED FOR FUTURE USE
Q	EXISTING STREET LIGHT TO REMAIN AND BE PROTECTED
R	EXISTING DIRECTION SIGN TO REMAIN AND BE PROTECTED
S	EXISTING EXTENSION POLE TO REMAIN AND BE PROTECTED
T	EXISTING FENCE AND GATE TO REMAIN AND BE PROTECTED
U	EXISTING BACK FLOW PREVENTOR TO REMAIN AND BE PROTECTED
V	EXISTING IRRIGATION VALVE TO REMAIN AND BE PROTECTED
W	EXISTING SANITARY SEWER LINE TO REMAIN AND BE PROTECTED
X	EXISTING SANITARY SEWER CLEANOUT TO REMAIN AND BE PROTECTED. ADJUST TO NEW GRADE ELEVATION AS NECESSARY
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REGISTERED LANDSCAPE ARCHITECT
DEREK MORE
No. 4148
Signature
EXPIRATION DATE: DEC. 2022
STATE OF CALIFORNIA

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
2455 The Alameda
Santa Clara, CA 95050
tel: 408.985.7200
fax: 408.985.7260
www.VerdeDesignInc.com

CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

DEMOLITION PLANS

Approved by _____ Date _____
MARIA ESTHER CARRANZA RODRIGUEZ

Designed by _____
Drawn by DL
Checked by TY/DM

Job No. 2106300
Scale 1"=20'-0"

SHEET L3.3
X of 106

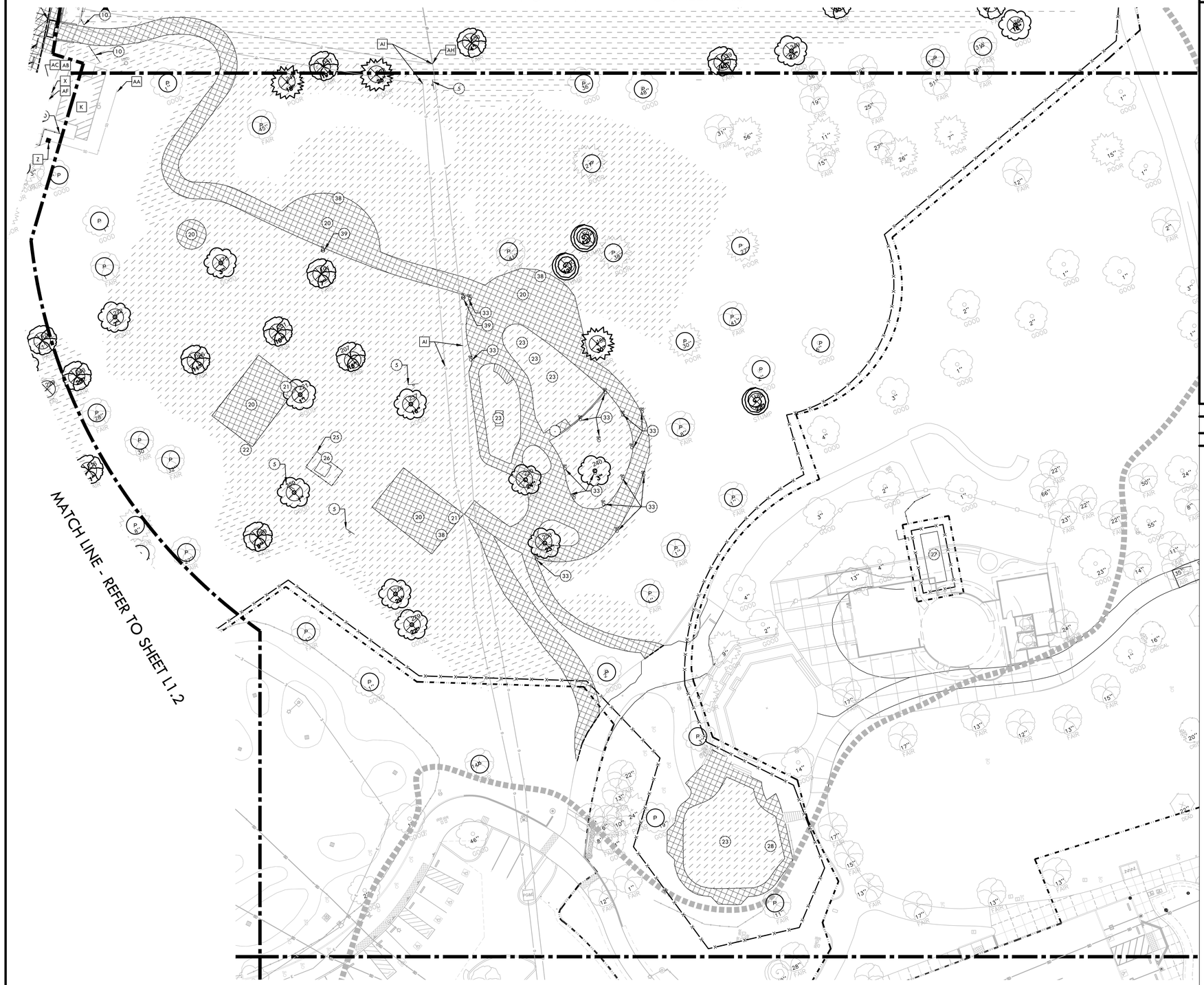
VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE PRIOR WRITTEN PERMISSION OF VERDE DESIGN, INC.

DRAWING NAME: Y:\Projects-SC\2021\2106300 - Watsonville Ramsay Park Improvements\CAD_DEM.dwg
PLOT DATE: 07-01-22 PLOTTED BY: station78

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES
0 1 2 3 4



DEMOLITION NOTES

1. THE CONTRACTOR SHALL PERFORM ALL CLEARING, DEMOLITION, REMOVAL OF OBSTRUCTIONS AND SITE PREPARATIONS NECESSARY FOR THE PROPER EXECUTION OF ALL WORK CONTAINED IN THE CONTRACT DOCUMENTS.
2. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES AND PROVIDE THE REQUIRED COORDINATION FOR THEIR TEMPORARY DISCONNECTION, PROTECTION, REMOVAL AND/OR STORAGE AS MAY BE REQUIRED DURING CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH THE OWNER TO DETERMINE WHETHER TEMPORARY SERVICES ARE NECESSARY. POT HOLE TO LOCATE UNDERGROUND UTILITIES AND IRRIGATION PRIOR TO PERFORMING THE PROPOSED WORK. POT HOLING SHOULD BE PERFORMED WITH VACUUM EQUIPMENT OR HAND DIGGING, NOT MECHANIZED EQUIPMENT.
3. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID SUBMITTAL TO DETERMINE THE EXACT EXTENT AND DEPTH OF SITE DEMOLITION REQUIRED AND VERIFY COMPLIANCE WITH DRAWINGS. THE OWNER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
4. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THE CONTRACT DOCUMENTS SHALL BE DEEMED TO BE APPROXIMATIONS ONLY. ALL DISCREPANCIES BETWEEN WHAT IS SHOWN AND THE ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AT (800) 227-2600 PRIOR TO ANY DEMOLITION OR EXCAVATION. UPON COMPLETION OF USA MARKING OPERATIONS, CONTRACTOR SHALL RECORD ALL UTILITY MARKINGS ON A SEPARATE SET OF DRAWINGS. THIS SET SHALL BE KEPT ON-SITE FOR REFERENCE FOR DURATION OF CONTRACT. NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY SHOULD CONFLICTS ARISE AND REDIRECT WORK TO AVOID DELAY.
5. ALL EXISTING ITEMS ARE TO REMAIN UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING, AT CONTRACTOR'S EXPENSE, ANY EXISTING ITEM DAMAGED OR DESTROYED BY CONSTRUCTION OPERATIONS. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY AND ALL DAMAGES TO ADJACENT PROPERTIES. THE DAMAGED ITEMS SHALL BE RESTORED TO AN "AS-WAS" OR BETTER CONDITION OR REPLACED PER THE DISCRETION OF THE OWNER'S REPRESENTATIVE.
6. PRIOR TO ANY DEMOLITION WORK, CONTRACTOR SHALL INSTALL SELF-SUPPORTING INTERLOCKING CHAIN-LINK TEMPORARY CONSTRUCTION FENCING TO ENCLOSE AND SECURE THE PROJECT AREAS. THE FENCING SHALL CONTAIN PEDESTRIAN AND/OR VEHICULAR ACCESS GATES AS NECESSARY AND SHALL BE MINIMUM 6 FEET HIGH WITH A TOP AND BOTTOM RAIL WITH KNUCKLED TOP AND BOTTOM SELVAGE (NO BARBED WIRE PERMITTED). FENCE SHALL INCLUDE FULL HEIGHT GREEN SHADE CLOTH COVERING. THE CONSTRUCTION FENCING WORK EXTENT AND LOCATION SHALL BE SUBJECT TO THE DISCRETION OF THE OWNER'S REPRESENTATIVE.
7. PRIOR TO ANY DEMOLITION WORK, CONTRACTOR SHALL PROTECT ALL EXISTING PLANT MATERIAL NOT SCHEDULED FOR REMOVAL BY INSTALLING TEMPORARY 4 FOOT HIGH "BLAZE ORANGE" CONSTRUCTION SAFETY FENCING AT THE DRIP LINE OR PERIMETER. THE FENCING SHALL BE SECURED WITH DRIVEN METAL STAKES. ALL TREE PROTECTION WORK SHALL BE SUBJECT TO THE DISCRETION OF THE OWNER'S REPRESENTATIVE.
8. DEMOLITION SHALL INCLUDE THE REMOVAL OF ITEM AND ANY FOUNDATION OR STRUCTURAL SUPPORT RELATED TO ITEM. FOR PLANT MATERIAL, THIS SHALL INCLUDE STUMPS AND ROOTS OVER 2 INCHES IN DIAMETER. DISPOSAL SHALL BE OFF-SITE IN A LEGAL MANNER ACCEPTABLE TO THE OWNER'S REPRESENTATIVE AND IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.
9. REFER TO SPECIFICATIONS FOR ADDITIONAL CLEARING, GRUBBING, TOPSOIL STOCKPILING AND OTHER PERTINENT INFORMATION.

ITEMS TO BE DEMOLISHED AND/OR REMOVED

40	EXISTING PRESS BOX TO BE DEMOLISHED AND REMOVED

ITEMS TO REMAIN AND BE PROTECTED

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AG	EXISTING WATER LINE TO REMAIN AND BE PROTECTED. CAP WATER LINE AT ABANDONED LOCATIONS.
AH	EXISTING ABANDONED GAS LINE TO REMAIN AND BE PROTECTED. CONTRACTOR TO POTHOLE AND LOCATED THE GAS LINE. RECORD SIZE, DEPTH, MATERIAL AND LOCATION OF LINE AND REPORT FINDINGS
AI	EXISTING ACTIVE GAS LINE TO REMAIN AND BE PROTECTED. CONTRACTOR TO POTHOLE AND LOCATE THE GAS LINE. RECORD SIZE, DEPTH, MATERIAL AND LOCATION OF LINE AND REPORT FINDINGS
AJ	POTHOLE AND LOCATE THE EXISTING WATER LINE. RECORD SIZE, DEPTH, MATERIAL AND LOCATION OF LINE AND REPORT FINDINGS
AK	POTHOLE AND LOCATE THE EXISTING STORM DRAIN LINE. RECORD SIZE, DEPTH, MATERIAL AND LOCATION OF LINE AND REPORT FINDINGS
AL	POTHOLE AND LOCATE THE EXISTING SANITARY SEWER LINE. RECORD SIZE, DEPTH, MATERIAL AND LOCATION OF LINE AND REPORT FINDINGS

DEMOLITION LEGEND

SYM	DESCRIPTION
X X	LIMIT OF WORK / CONSTRUCTION FENCING, REFER TO SPECIFICATIONS. CONSTRUCTION FENCING LOCATION SHALL BE DETERMINED IN FIELD AS PER CITY REPRESENTATIVE'S DIRECTION.
	SAWCUT EXISTING CONCRETE / ASPHALT PAVING, REFER TO SPECIFICATIONS.
	CLEAR AND GRUB, REFER TO SPECIFICATIONS.
	EXISTING HARDSCAPE INCLUDING BASE MATERIAL TO BE DEMOLISHED AND REMOVED.
	REMOVE EXISTING INFIELD FINES, REFER TO SPECIFICATIONS.
	EXISTING ASPHALT PAVING SHALL BE CLEANED AND PREPARED FOR CRACK SEALANT AND SLURRY SEAL COAT, REFER TO SPECIFICATIONS.
	REMOVE EXISTING TREES INCLUDING STUMPS, REFER TO SPECIFICATIONS.
P	EXISTING TREES TO REMAIN AND BE PROTECTED. ANY CLEAR AND GRUB WORK WITHIN TREE PROTECTION FENCING TO BE DONE BY HAND ONLY, REFER TO SPECIFICATIONS.

UTILITIES AS-BUILT

	STORM DRAIN LINE		WATER LINE
	SANITARY SEWER LINE		REINFORCED CONCRETE PIPE
	ELECTRICAL CONDUIT	IRR	IRRIGATION MAIN LINE

UTILITIES SURVEY

	EXISTING STORM DRAIN LINE		EXISTING ELECTRICAL CONDUIT EXISTING COMMUNICATION LINE
	EXISTING WATER LINE		EXISTING ACTIVE GAS LINE
	EXISTING SANITARY SEWER LINE		EXISTING IRRIGATION LINE
	EXISTING OVERHEAD UTILITY LINE		EXISTING ABANDONED GAS LINE

ITEMS TO BE DEMOLISHED AND/OR REMOVED

1	EXISTING CURB TO BE DEMOLISHED AND REMOVED
2	EXISTING CONCRETE CURB AND GUTTER TO BE DEMOLISHED AND REMOVED
3	EXISTING COBBLESTONE MEDIAN TO BE DEMOLISHED AND REMOVED
4	EXISTING BOLLARD INCLUDING FOOTING TO BE DEMOLISHED AND REMOVED
5	EXISTING PARK SIGN TO BE REMOVED, SALVAGED AND RETURN BACK TO CITY
6	EXISTING ADA PARKING SIGN TO BE REMOVED, SALVAGED AND REINSTALLED PER MATERIAL PLAN
7	EXISTING WHEEL STOP TO BE REMOVED, SALVAGED AND REINSTALLED PER MATERIAL PLAN
8	EXISTING FENCE, INCLUDING ALL FOOTINGS, FABRIC, POSTS, GATES, HARDWARE, AND FITTINGS TO BE DEMOLISHED AND REMOVED. EXISTING SIGNAGE ON FENCE TO BE SALVAGED AND REINSTALLED. CONTRACTOR TO COORDINATE WITH CITY REPRESENTATIVE ON PROPOSED LOCATION
9	EXISTING NETTING, INCLUDING ALL POSTS, FOOTINGS, FABRIC, HARDWARE AND FITTINGS TO BE DEMOLISHED AND REMOVED
10	EXISTING METAL PIPE RAIL TO BE DEMOLISHED AND REMOVED
11	EXISTING FLAG POLE TO BE REMOVED, SALVAGED AND REINSTALLED PER MATERIAL PLAN
12	EXISTING BRICK PLANTER TO BE DEMOLISHED AND REMOVED
13	EXISTING PARKING LOT LIGHT TO BE DEMOLISHED AND REMOVED
14	EXISTING PEDESTRIAN LIGHT TO BE DEMOLISHED AND REMOVED
15	EXISTING SPORT FIELD LIGHT TO BE REMOVED, SALVAGED AND REINSTALLED PER MUSCO PLAN
16	EXISTING VEHICULAR GATE AND ASSOCIATED CONTROL BOX AND POSTS TO BE REMOVED, SALVAGED AND RETURN BACK TO CITY
17	EXISTING SCOREBOARD TO BE REMOVED, SALVAGED AND REINSTALLED PER MATERIAL PLAN
18	EXISTING DUGOUT ROOF TO BE DEMOLISHED AND REMOVED
19	EXISTING STORAGE SHED TO BE REMOVED, SALVAGED AND REINSTALLED PER THE MATERIAL PLAN
20	EXISTING PICNIC TABLE TO BE REMOVED, SALVAGED AND RETURN TO CITY
21	EXISTING TRASH RECEPTACLE TO BE REMOVED, SALVAGED AND REINSTALLED PER THE MATERIAL PLAN
22	EXISTING TRASH CAN TO BE DEMOLISHED AND REMOVED
23	EXISTING LAY STRUCTURE TO BE DEMOLISHED AND REMOVED
24	EXISTING CONCRETE RAMP TO BE DEMOLISHED AND REMOVED
25	EXISTING FENCE WITH SLATE TO BE DEMOLISHED AND REMOVED
26	EXISTING TRASH BIN TO BE REMOVED, SALVAGED AND RETURN TO CITY
27	EXISTING STAINLESS STEEL SLIDE TO BE REMOVED, SALVAGED, AND REINSTALLED PER CONSTRUCTION DOCUMENTS
28	EXISTING HISTORIC WATER PUMP TO BE REMOVED, SALVAGED AND REINSTALLED PER CONSTRUCTION DOCUMENTS
29	EXISTING CATCH BASIN FOR CAR WASH TO BE DEMOLISHED AND REMOVED
30	EXISTING SANITARY SEWER LINE TO BE DEMOLISHED, REMOVED AND CAPPED.
31	EXISTING STORM DRAIN PIPE TO BE DEMOLISHED AND REMOVED
32	EXISTING CONCRETE SWALE TO BE DEMOLISHED AND REMOVED
33	EXISTING IRRIGATION HEAD TO BE REMOVED, SALVAGED AND RETURN TO CITY
34	EXISTING IRRIGATION LINE TO BE DEMOLISHED AND REMOVED. CONTRACTOR TO CUT AND CAP EXISTING IRRIGATION MAIN LINE OR LATERAL LINE. THE VALVES TO BE RELOCATED AS NECESSARY.
35	EXISTING ELECTRICAL LINE TO BE DEMOLISHED AND REMOVED
36	EXISTING ELECTRICAL PULL BOX TO BE DEMOLISHED AND REMOVED
37	EXISTING COMMUNICATION LINE TO BE DEMOLISHED AND REMOVED
38	EXISTING BBQ TABLE TO BE DEMOLISHED AND REMOVED
39	EXISTING IRRIGATION VALVE TO BE DEMOLISHED AND REMOVED

NORTH

0 10' 20' 40' 60'

REGISTERED LANDSCAPE ARCHITECT — REBEK MCKEE — No. 4148 — Signature — EXPIRATION DATE: DEC. 2022 — STATE OF CALIFORNIA

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
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fax: 408.985.7260
www.VerdeDesignInc.com

CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

DEMOLITION PLANS

Approved by _____ Date _____
MARIA ESTHER CARRANZA RODRIGUEZ

Designed by _____ Drawn by DL Checked by TY/DM
Job No. 2106300
Scale 1"=20'-0"
SHEET L3.4
X of 106

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS, OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR

DRAWING NAME: Y:\Projects-SC\2021\2106300 - Watsonville Ramsay Park Improvements\CAD_DEM.dwg
PLOT DATE: 07-01-22 PLOTTED BY: station78

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4



DEMOLITION NOTES

1. THE CONTRACTOR SHALL PERFORM ALL CLEARING, DEMOLITION, REMOVAL OF OBSTRUCTIONS AND SITE PREPARATIONS NECESSARY FOR THE PROPER EXECUTION OF ALL WORK CONTAINED IN THE CONTRACT DOCUMENTS.
2. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES AND PROVIDE THE REQUIRED COORDINATION FOR THEIR TEMPORARY DISCONNECTION, PROTECTION, REMOVAL AND/OR STORAGE AS MAY BE REQUIRED DURING CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH THE OWNER TO DETERMINE WHETHER TEMPORARY SERVICES ARE NECESSARY. POT HOLE TO LOCATE UNDERGROUND UTILITIES AND IRRIGATION PRIOR TO PERFORMING THE PROPOSED WORK. POT HOLING SHOULD BE PERFORMED WITH VACUUM EQUIPMENT OR HAND DIGGING, NOT MECHANIZED EQUIPMENT.
3. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID SUBMITTAL TO DETERMINE THE EXACT EXTENT AND DEPTH OF SITE DEMOLITION REQUIRED AND VERIFY COMPLIANCE WITH DRAWINGS. THE OWNER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
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5. ALL EXISTING ITEMS ARE TO REMAIN UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING, AT CONTRACTOR'S EXPENSE, ANY EXISTING ITEM DAMAGED OR DESTROYED BY CONSTRUCTION OPERATIONS. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY AND ALL DAMAGES TO ADJACENT PROPERTIES. THE DAMAGED ITEMS SHALL BE RESTORED TO AN "AS-WAS" OR BETTER CONDITION OR REPLACED PER THE DISCRETION OF THE OWNER'S REPRESENTATIVE.
6. PRIOR TO ANY DEMOLITION WORK, CONTRACTOR SHALL INSTALL SELF-SUPPORTING INTERLOCKING CHAIN-LINK TEMPORARY CONSTRUCTION FENCING TO ENCLOSE AND SECURE THE PROJECT AREAS. THE FENCING SHALL CONTAIN PEDESTRIAN AND/OR VEHICULAR ACCESS GATES AS NECESSARY AND SHALL BE MINIMUM 6 FEET HIGH WITH A TOP AND BOTTOM RAIL WITH KNUCKLED TOP AND BOTTOM SELVAGE (NO BARBED WIRE PERMITTED). FENCE SHALL INCLUDE FULL HEIGHT GREEN SHADE CLOTH COVERING. THE CONSTRUCTION FENCING WORK EXTENT AND LOCATION SHALL BE SUBJECT TO THE DISCRETION OF THE OWNER'S REPRESENTATIVE.
7. PRIOR TO ANY DEMOLITION WORK, CONTRACTOR SHALL PROTECT ALL EXISTING PLANT MATERIAL NOT SCHEDULED FOR REMOVAL BY INSTALLING TEMPORARY 4 FOOT HIGH "BLAZE ORANGE" CONSTRUCTION SAFETY FENCING AT THE DRIP LINE OR PERIMETER. THE FENCING SHALL BE SECURED WITH DRIVEN METAL STAKES. ALL TREE PROTECTION WORK SHALL BE SUBJECT TO THE DISCRETION OF THE OWNER'S REPRESENTATIVE.
8. DEMOLITION SHALL INCLUDE THE REMOVAL OF ITEM AND ANY FOUNDATION OR STRUCTURAL SUPPORT RELATED TO ITEM. FOR PLANT MATERIAL, THIS SHALL INCLUDE STUMPS AND ROOTS OVER 2 INCHES IN DIAMETER. DISPOSAL SHALL BE OFF-SITE IN A LEGAL MANNER ACCEPTABLE TO THE OWNER'S REPRESENTATIVE AND IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.
9. REFER TO SPECIFICATIONS FOR ADDITIONAL CLEARING, GRUBBING, TOPSOIL STOCKPILING AND OTHER PERTINENT INFORMATION.

TREE DISPOSITION LEGEND

SYM	DESCRIPTION
	LIMIT OF WORK
X	CONSTRUCTION FENCING, REFER TO SPECIFICATIONS. CONSTRUCTION FENCING LOCATION SHALL BE DETERMINED IN FIELD AS PER CITY REPRESENTATIVE'S DIRECTION.
	REMOVE EXISTING TREES INCLUDING STUMPS, REFER TO SPECIFICATIONS.
362 27"	EXISTING TREES TO REMAIN AND BE PROTECTED. ANY CLEAR AND GRUB WORK WITHIN TREE PROTECTION FENCING TO BE DONE BY HAND ONLY, REFER TO SPECIFICATIONS.
362 27"	TREE ASSESSMENT ID# / TREE CALIPER SIZE

TREE DISPOSITION SCHEDULE

CATALOG	COUNT
EXISTING TREE ONSITE	369
EXISTING DEAD TREE ONSITE	4
STUMP ONSITE	7
EXISTING TREE TO BE REMOVED	70
STUMP TO BE REMOVED	6
EXISTING TREE TO REMAIN	299
NEW TREE TO BE PROPOSED	229
TOTAL TREE REMAIN & PROPOSED ONSITE	528
TOTAL NET GAIN TREES	159

NORTH

0 10' 20' 40' 60'

REGISTERED LANDSCAPE ARCHITECT — DEREK MEIER — No. 4148 — Signature — EXPIRATION DATE: DEC. 2022 — STATE OF CALIFORNIA

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
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fax: 408.985.7360
www.VerdeDesignInc.com

CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

TREE DISPOSITION PLAN

Approved by _____ Date _____
MARIA ESTHER CARRANZA RODRIGUEZ

Designed by _____ Drawn by DL Checked by TY/DM
Job No. 2106300 Scale 1"=20'-0"
SHEET L4.1 X of 106

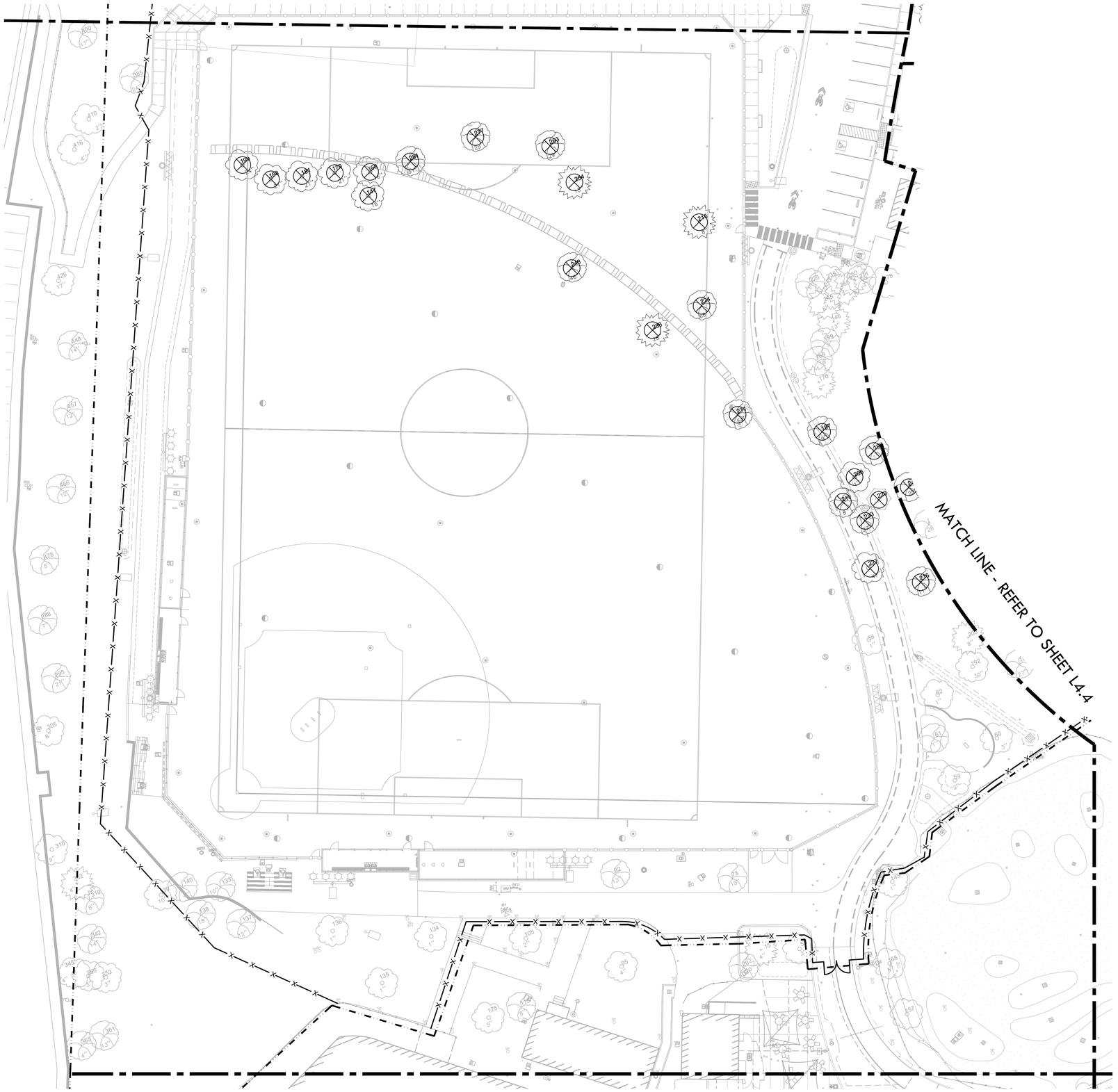
VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR ENTITY FOR ANY PURPOSE WHATSOEVER WITHOUT THE PRIOR WRITTEN PERMISSION OF VERDE DESIGN, INC.

DRAWING NAME: X:\Projects-SC\2021\2106300 - Watsonville Ramsay Park Improvements\cad_DEM-TREE.dwg
PLOT DATE: 07-01-22 PLOTTED BY: station78

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4



DEMOLITION NOTES

1. THE CONTRACTOR SHALL PERFORM ALL CLEARING, DEMOLITION, REMOVAL OF OBSTRUCTIONS AND SITE PREPARATIONS NECESSARY FOR THE PROPER EXECUTION OF ALL WORK CONTAINED IN THE CONTRACT DOCUMENTS.
2. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES AND PROVIDE THE REQUIRED COORDINATION FOR THEIR TEMPORARY DISCONNECTION, PROTECTION, REMOVAL AND/OR STORAGE AS MAY BE REQUIRED DURING CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH THE OWNER TO DETERMINE WHETHER TEMPORARY SERVICES ARE NECESSARY. POT HOLE TO LOCATE UNDERGROUND UTILITIES AND IRRIGATION PRIOR TO PERFORMING THE PROPOSED WORK. POT HOLING SHOULD BE PERFORMED WITH VACUUM EQUIPMENT OR HAND DIGGING, NOT MECHANIZED EQUIPMENT.
3. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID SUBMITTAL TO DETERMINE THE EXACT EXTENT AND DEPTH OF SITE DEMOLITION REQUIRED AND VERIFY COMPLIANCE WITH DRAWINGS. THE OWNER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
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5. ALL EXISTING ITEMS ARE TO REMAIN UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING, AT CONTRACTOR'S EXPENSE, ANY EXISTING ITEM DAMAGED OR DESTROYED BY CONSTRUCTION OPERATIONS. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY AND ALL DAMAGES TO ADJACENT PROPERTIES. THE DAMAGED ITEMS SHALL BE RESTORED TO AN "AS-WAS" OR BETTER CONDITION OR REPLACED PER THE DISCRETION OF THE OWNER'S REPRESENTATIVE.
6. PRIOR TO ANY DEMOLITION WORK, CONTRACTOR SHALL INSTALL SELF-SUPPORTING INTERLOCKING CHAIN-LINK TEMPORARY CONSTRUCTION FENCING TO ENCLOSE AND SECURE THE PROJECT AREAS. THE FENCING SHALL CONTAIN PEDESTRIAN AND/OR VEHICULAR ACCESS GATES AS NECESSARY AND SHALL BE MINIMUM 6 FEET HIGH WITH A TOP AND BOTTOM RAIL WITH KNUCKLED TOP AND BOTTOM SELVAGE (NO BARBED WIRE PERMITTED). FENCE SHALL INCLUDE FULL HEIGHT GREEN SHADE CLOTH COVERING. THE CONSTRUCTION FENCING WORK EXTENT AND LOCATION SHALL BE SUBJECT TO THE DISCRETION OF THE OWNER'S REPRESENTATIVE.
7. PRIOR TO ANY DEMOLITION WORK, CONTRACTOR SHALL PROTECT ALL EXISTING PLANT MATERIAL NOT SCHEDULED FOR REMOVAL BY INSTALLING TEMPORARY 4 FOOT HIGH "BLAZE ORANGE" CONSTRUCTION SAFETY FENCING AT THE DRIP LINE OR PERIMETER. THE FENCING SHALL BE SECURED WITH DRIVEN METAL STAKES. ALL TREE PROTECTION WORK SHALL BE SUBJECT TO THE DISCRETION OF THE OWNER'S REPRESENTATIVE.
8. DEMOLITION SHALL INCLUDE THE REMOVAL OF ITEM AND ANY FOUNDATION OR STRUCTURAL SUPPORT RELATED TO ITEM. FOR PLANT MATERIAL, THIS SHALL INCLUDE STUMPS AND ROOTS OVER 2 INCHES IN DIAMETER. DISPOSAL SHALL BE OFF-SITE IN A LEGAL MANNER ACCEPTABLE TO THE OWNER'S REPRESENTATIVE AND IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.
9. REFER TO SPECIFICATIONS FOR ADDITIONAL CLEARING, GRUBBING, TOPSOIL STOCKPILING AND OTHER PERTINENT INFORMATION.

TREE DISPOSITION LEGEND

SYM	DESCRIPTION
⋯·⋯	LIMIT OF WORK
—X—	CONSTRUCTION FENCING, REFER TO SPECIFICATIONS. CONSTRUCTION FENCING LOCATION SHALL BE DETERMINED IN FIELD AS PER CITY REPRESENTATIVE'S DIRECTION.
⊗	REMOVE EXISTING TREES INCLUDING STUMPS, REFER TO SPECIFICATIONS.
362 ○ 27"	EXISTING TREES TO REMAIN AND BE PROTECTED. ANY CLEAR AND GRUB WORK WITHIN TREE PROTECTION FENCING TO BE DONE BY HAND ONLY, REFER TO SPECIFICATIONS.
362 — TREE ASSESSMENT ID# 27" — TREE CALIPER SIZE	

TREE DISPOSITION SCHEDULE

CATALOG	COUNT
EXISTING TREE ONSITE	369
EXISTING DEAD TREE ONSITE	4
STUMP ONSITE	7
EXISTING TREE TO BE REMOVED	70
STUMP TO BE REMOVED	6
EXISTING TREE TO REMAIN	299
NEW TREE TO BE PROPOSED	229
TOTAL TREE REMAIN & PROPOSED ONSITE	528
TOTAL NET GAIN TREES	159

NORTH

0 10' 20' 40' 60'

REGISTERED LANDSCAPE ARCHITECT — REBEK MCKEE — No. 4148 — Signature — EXPIRATION DATE: DEC. 2022 — STATE OF CALIFORNIA

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www.VerdeDesignInc.com

CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

TREE DISPOSITION PLAN

Approved by _____ Date _____
MARIA ESTHER CARRANZA RODRIGUEZ

Designed by _____ Drawn by VERDE Checked by TY/DM
Job No. 2106300 Scale 1"=20'-0"
SHEET L4.2 X of 106

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE PRIOR WRITTEN PERMISSION OF VERDE DESIGN, INC.

DRAWING NAME: Y:\Projects-SC\2021\2106300 - Watsonville Ramsay Park Improvements\cad_DEM-TREE.dwg
PLOT DATE: 07-01-22 PLOTTED BY: station78

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4

ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE PRIOR WRITTEN PERMISSION OF VERDE DESIGN, INC.

MAIN STREET

CAL TRANS R.O.W.

MATCH LINE - REFER TO SHEET L4.1

MATCH LINE - REFER TO SHEET L4.4

DEMOLITION NOTES

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7. PRIOR TO ANY DEMOLITION WORK, CONTRACTOR SHALL PROTECT ALL EXISTING PLANT MATERIAL NOT SCHEDULED FOR REMOVAL BY INSTALLING TEMPORARY 4 FOOT HIGH "BLAZE ORANGE" CONSTRUCTION SAFETY FENCING AT THE DRIP LINE OR PERIMETER. THE FENCING SHALL BE SECURED WITH DRIVEN METAL STAKES. ALL TREE PROTECTION WORK SHALL BE SUBJECT TO THE DISCRETION OF THE OWNER'S REPRESENTATIVE.
8. DEMOLITION SHALL INCLUDE THE REMOVAL OF ITEM AND ANY FOUNDATION OR STRUCTURAL SUPPORT RELATED TO ITEM. FOR PLANT MATERIAL, THIS SHALL INCLUDE STUMPS AND ROOTS OVER 2 INCHES IN DIAMETER. DISPOSAL SHALL BE OFF-SITE IN A LEGAL MANNER ACCEPTABLE TO THE OWNER'S REPRESENTATIVE AND IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.
9. REFER TO SPECIFICATIONS FOR ADDITIONAL CLEARING, GRUBBING, TOPSOIL STOCKPILING AND OTHER PERTINENT INFORMATION.

TREE DISPOSITION LEGEND

SYM	DESCRIPTION
⋯	LIMIT OF WORK
X	CONSTRUCTION FENCING, REFER TO SPECIFICATIONS. CONSTRUCTION FENCING LOCATION SHALL BE DETERMINED IN FIELD AS PER CITY REPRESENTATIVE'S DIRECTION.
⊗	REMOVE EXISTING TREES INCLUDING STUMPS, REFER TO SPECIFICATIONS.
362 ○ 27"	EXISTING TREES TO REMAIN AND BE PROTECTED. ANY CLEAR AND GRUB WORK WITHIN TREE PROTECTION FENCING TO BE DONE BY HAND ONLY, REFER TO SPECIFICATIONS.
362 ○ 27"	362 — TREE ASSESSMENT ID#; 27" — TREE CALIPER SIZE

TREE DISPOSITION SCHEDULE

CATALOG	COUNT
EXISTING TREE ONSITE	369
EXISTING DEAD TREE ONSITE	4
STUMP ONSITE	7
EXISTING TREE TO BE REMOVED	70
STUMP TO BE REMOVED	6
EXISTING TREE TO REMAIN	299
NEW TREE TO BE PROPOSED	229
TOTAL TREE REMAIN & PROPOSED ONSITE	528
TOTAL NET GAIN TREES	159

NORTH

0 10' 20' 40' 60'

REGISTERED LANDSCAPE ARCHITECT — DEREK MCKEE — No. 4148 — Signature — EXPIRATION DATE: DEC. 2022 — STATE OF CALIFORNIA

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
2455 The Alameda
Santa Clara, CA 95050
tel: 408.985.7200
fax: 408.985.7260
www.VerdeDesigninc.com

CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

TREE DISPOSITION PLAN

Approved by _____ Date _____
MARIA ESTHER CARRANZA RODRIGUEZ

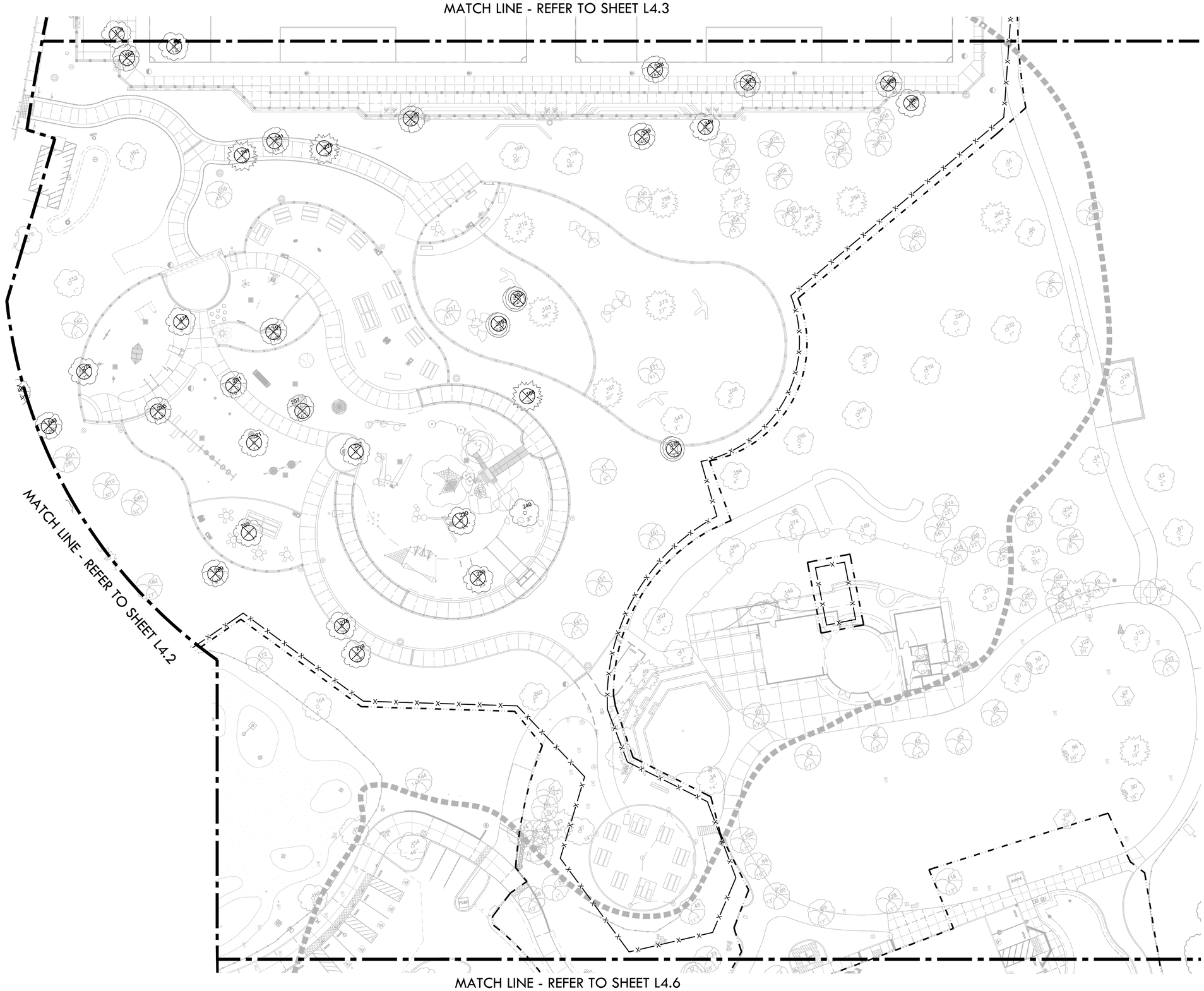
Designed by _____ Drawn by VERDE Checked by TY/DM
Job No. 2106300 Scale 1"=20'-0"
SHEET L4.3 X of 106

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

DRAWING NAME: Y:\Projects-SC\2021\2106300 - Watsonville Ramsay Park Improvements\cad_DEM-TREE.dwg
PLOT DATE: 07-01-22 PLOTTED BY: station78

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4



DEMOLITION NOTES

1. THE CONTRACTOR SHALL PERFORM ALL CLEARING, DEMOLITION, REMOVAL OF OBSTRUCTIONS AND SITE PREPARATIONS NECESSARY FOR THE PROPER EXECUTION OF ALL WORK CONTAINED IN THE CONTRACT DOCUMENTS.
2. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES AND PROVIDE THE REQUIRED COORDINATION FOR THEIR TEMPORARY DISCONNECTION, PROTECTION, REMOVAL AND/OR STORAGE AS MAY BE REQUIRED DURING CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH THE OWNER TO DETERMINE WHETHER TEMPORARY SERVICES ARE NECESSARY. POT HOLE TO LOCATE UNDERGROUND UTILITIES AND IRRIGATION PRIOR TO PERFORMING THE PROPOSED WORK. POT HOLING SHOULD BE PERFORMED WITH VACUUM EQUIPMENT OR HAND DIGGING, NOT MECHANIZED EQUIPMENT.
3. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID SUBMITTAL TO DETERMINE THE EXACT EXTENT AND DEPTH OF SITE DEMOLITION REQUIRED AND VERIFY COMPLIANCE WITH DRAWINGS. THE OWNER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
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5. ALL EXISTING ITEMS ARE TO REMAIN UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING, AT CONTRACTOR'S EXPENSE, ANY EXISTING ITEM DAMAGED OR DESTROYED BY CONSTRUCTION OPERATIONS. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY AND ALL DAMAGES TO ADJACENT PROPERTIES. THE DAMAGED ITEMS SHALL BE RESTORED TO AN "AS-WAS" OR BETTER CONDITION OR REPLACED PER THE DISCRETION OF THE OWNER'S REPRESENTATIVE.
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9. REFER TO SPECIFICATIONS FOR ADDITIONAL CLEARING, GRUBBING, TOPSOIL STOCKPILING AND OTHER PERTINENT INFORMATION.

TREE DISPOSITION LEGEND

SYM	DESCRIPTION
	LIMIT OF WORK
X	CONSTRUCTION FENCING, REFER TO SPECIFICATIONS. CONSTRUCTION FENCING LOCATION SHALL BE DETERMINED IN FIELD AS PER CITY REPRESENTATIVE'S DIRECTION.
⊗	REMOVE EXISTING TREES INCLUDING STUMPS, REFER TO SPECIFICATIONS.
362 ○ 27"	EXISTING TREES TO REMAIN AND BE PROTECTED. ANY CLEAR AND GRUB WORK WITHIN TREE PROTECTION FENCING TO BE DONE BY HAND ONLY, REFER TO SPECIFICATIONS.
362 ○ 27"	362 — TREE ASSESSMENT ID#; 27" — TREE CALIPER SIZE

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CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

TREE DISPOSITION PLAN

Approved by _____ Date _____
MARIA ESTHER CARRANZA RODRIGUEZ

Designed by _____ Drawn by VERDE Checked by TY/DM
Job No. 2106300 Scale 1"=20'-0"
SHEET L4.4 X of 106

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE PRIOR WRITTEN PERMISSION OF VERDE DESIGN, INC.

DRAWING NAME: Y:\Projects-SC\2021\2106300 - Watsonville Ramsay Park Improvements\cad_DEM-TREE.dwg
PLOT DATE: 07-01-22 PLOTTED BY: station78

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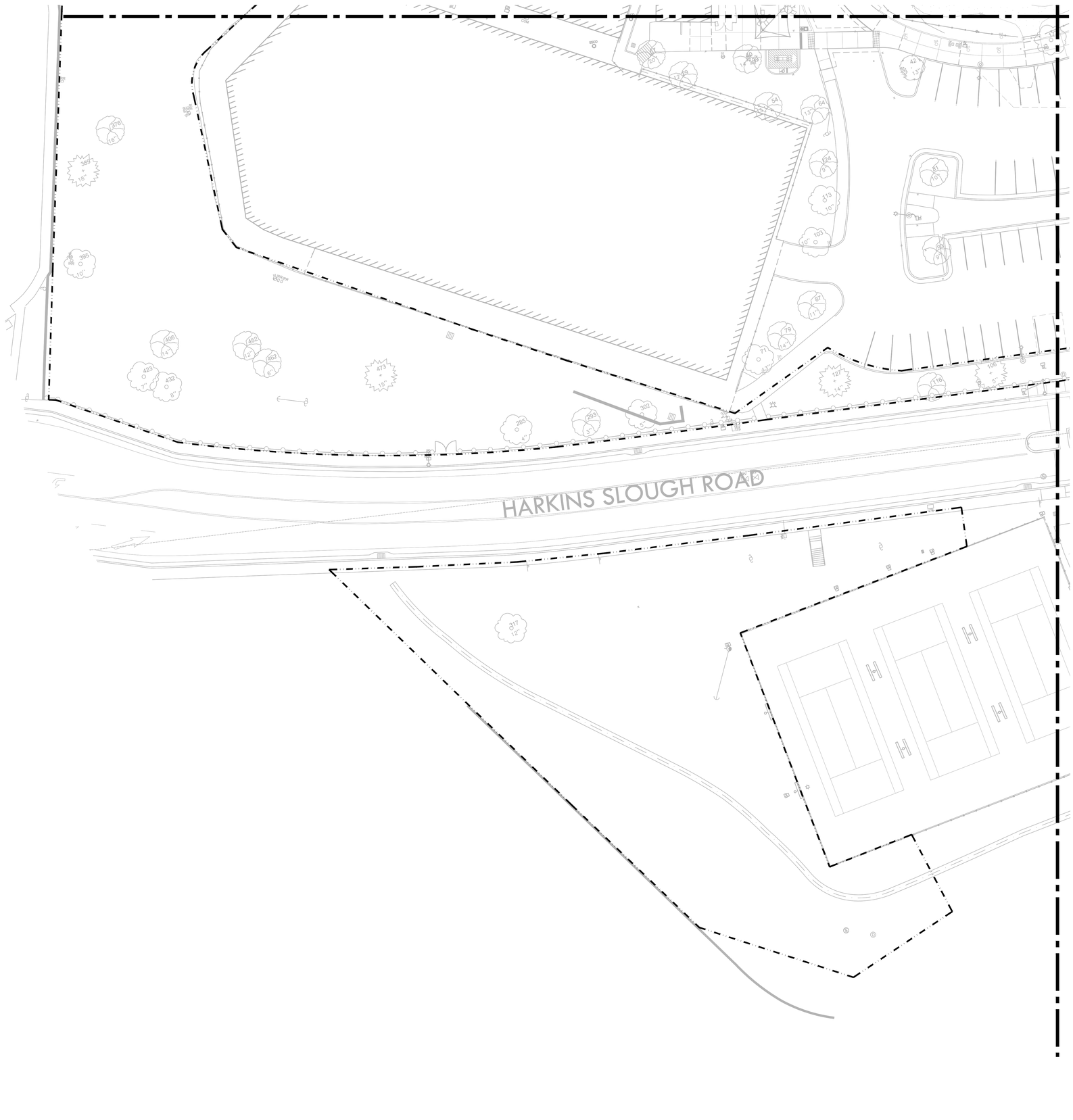

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REGISTERED LANDSCAPE ARCHITECT — REBEK MCKEE — No. 4148 — Signature — EXPIRATION DATE: DEC. 2022 — STATE OF CALIFORNIA

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PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

TREE DISPOSITION PLAN

Approved by _____ Date _____
MARIA ESTHER CARRANZA RODRIGUEZ

Designed by _____ Drawn by VERDE Checked by TY/DM
Job No. 2106300 Scale 1"=20'-0"
SHEET L4.5 X of 106

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE PRIOR WRITTEN PERMISSION OF VERDE DESIGN, INC.

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PLOT DATE: 07-01-22 PLOTTED BY: station78

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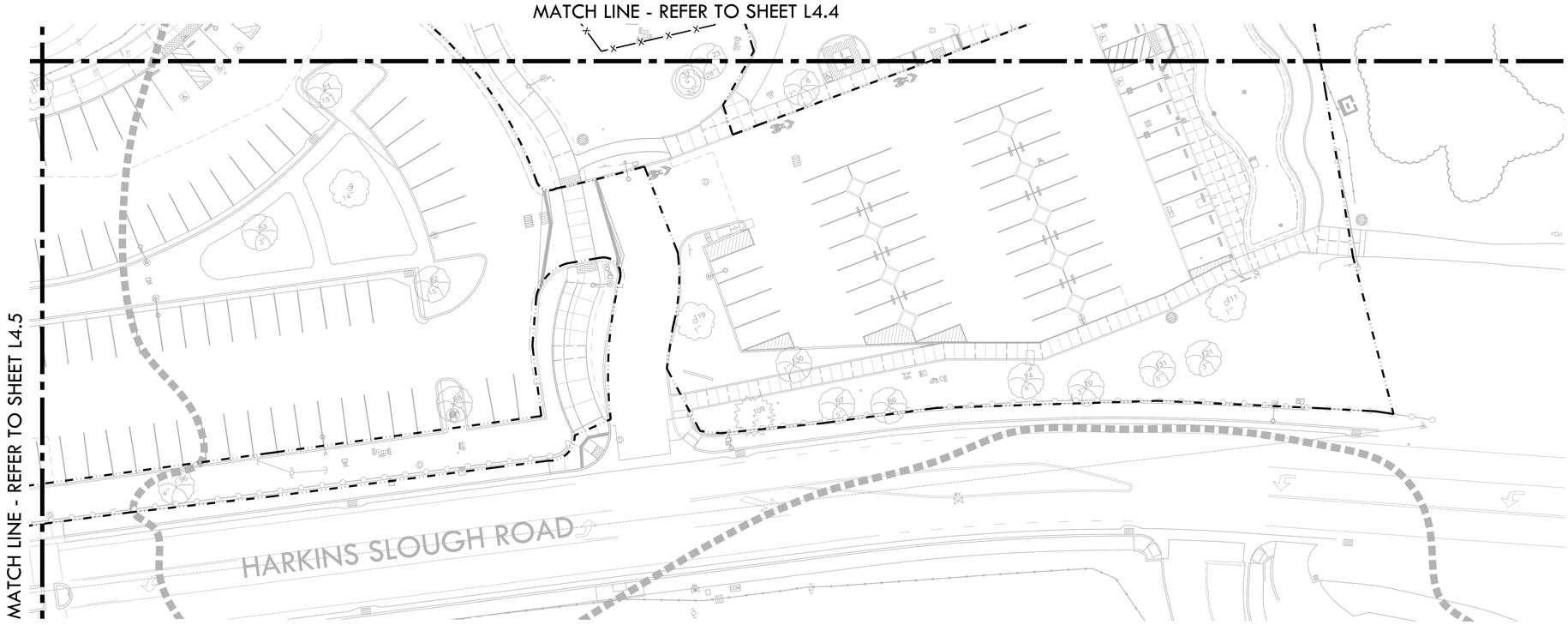

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REGISTERED LANDSCAPE ARCHITECT · DEREK MCKEE · No. 4148 · Signature · EXPIRATION DATE: DEC. 2022 · STATE OF CALIFORNIA

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PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

TREE DISPOSITION PLAN

Approved by _____ Date _____
MARIA ESTHER CARRANZA RODRIGUEZ

Designed by _____ Job No. 2106300 SHEET L4.6
Drawn by VERDE Scale 1"=20'-0" X of 106
Checked by TY/DM

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

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PLOT DATE: 07-01-22 PLOTTED BY: station78

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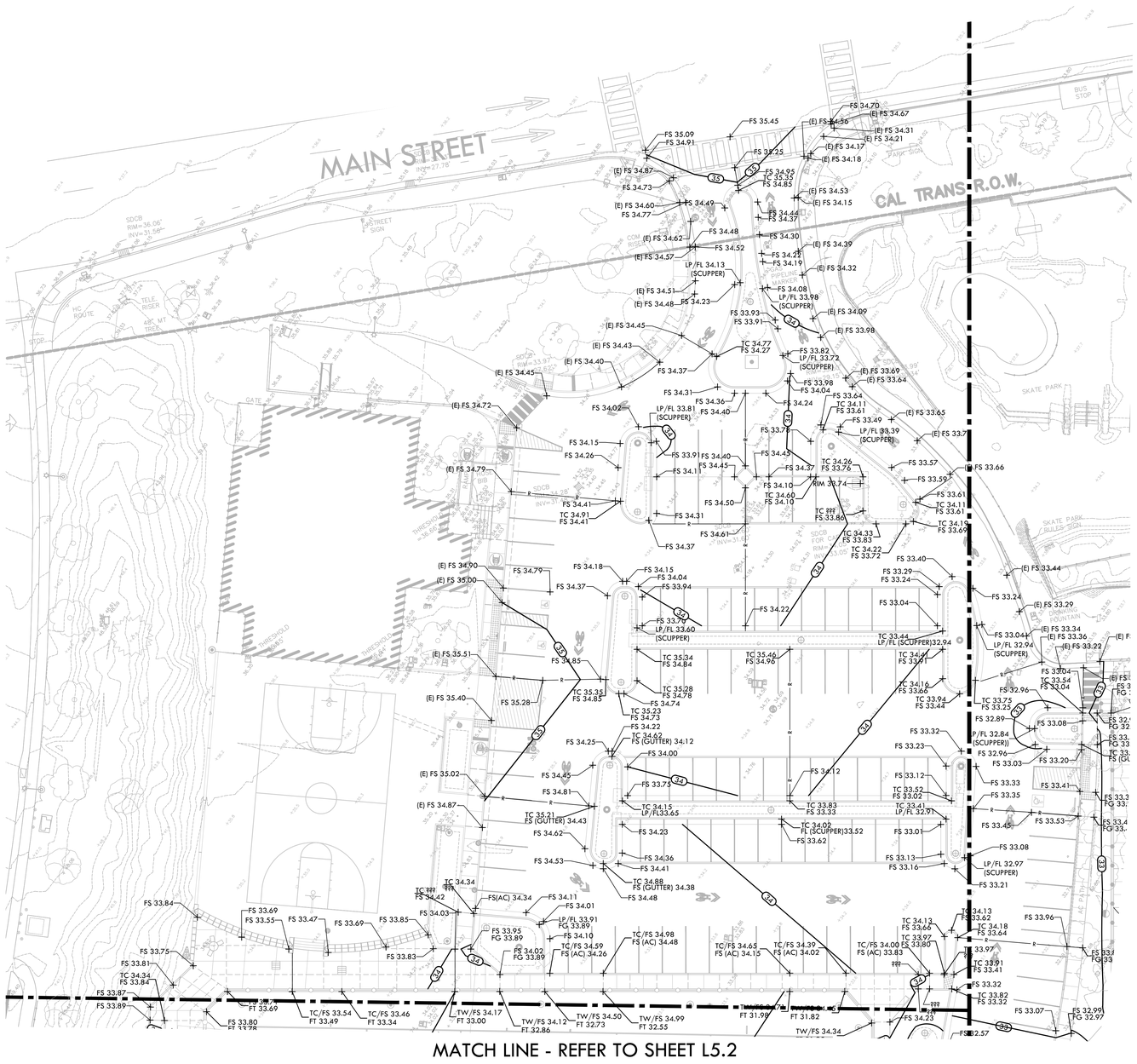

GRADING NOTES

1. EXISTING GRADES ARE BASED ON INFORMATION PROVIDED BY: _____. CONTRACTOR SHALL VERIFY EXISTING GRADES FOR ACCURACY PRIOR TO THE START OF GRADING. NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY SHOULD CONFLICTS ARISE AND REDIRECT WORK TO AVOID DELAY.
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3. PROPOSED GRADES SHALL MEET EXISTING GRADES WITH A SMOOTH AND CONTINUOUS TRANSITION SO AS TO AVOID TRAPPING WATER. CONTRACTOR SHALL NOTIFY DISTRICT REPRESENTATIVE IF PUDDLING IS SUSPECTED AND REDIRECT WORK SO AS TO AVOID DELAY WHILE AWAITING RESPONSE.
4. ALL EXISTING DRAINAGE STRUCTURES, BOXES, UTILITY VAULTS ETC. SHALL BE BROUGHT TO FINAL FINISH GRADE PRIOR TO FINAL SURFACE TREATMENT.

GRADING LEGEND

SYM.	DESCRIPTION
B5	PROPOSED CONTOUR
B5	PROPOSED SUBGRADE CONTOUR
FG 32.00	PROPOSED FINISH GRADE ELEVATION OF SOFTSCAPE
FT 32.00	PROPOSED ELEVATION OF TOP OF SYNTHETIC TURF INFILL
FS 32.00	PROPOSED FINISH SURFACE ELEVATION OF HARDSCAPE
HP 32.00	HIGH POINT/ HIGH POINT OF SWALE
LP 31.00	LOW POINT
RIM 31.00	RIM ELEVATION OF DRAIN
SG 32.00	PROPOSED FINISH SUGRADE ELEVATION
TC 32.50	TOP OF CURB
BC 32.50	BOTTOM OF CURB
TR 32.50	TOP OF RISER
BR 32.50	BOTTOM OF RISER
TW 34.00	TOP OF WALL
BW 34.00	BOTTOM OF WALL
FF 99.00	FINISHED FLOOR ELEVATION
FL 99.00	FLOW LINE ELEVATION
TD 99.00	TOP OF TRENCH DRAIN
TC (N) XX.XX TC (S) XX.XX	TOP OF CURB (NORTH) TOP OF CURB (SOUTH)
	CENTER LINE OF SWALE
R	CROWN OF FIELD, OR RIDGE LINE
L	LOW POINT OF FIELD
	CONFORM TO EXISTING GRADE
	LIMIT OF GRADING - CONFORM TO EXISTING GRADES AT THIS LINE
	FLOW DIRECTION IN SOFTSCAPE
102	EXISTING CONTOUR
+ 102.1	EXISTING ELEVATION

NORTH

0 10' 20' 40' 60'

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REGISTERED LANDSCAPE ARCHITECT
DEREK MCKEE
No. 4148
Signature
EXPIRATION DATE: DEC. 2022
STATE OF CALIFORNIA

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
2455 The Alameda
Santa Clara, CA 95050
tel: 408.985.7300
fax: 408.985.7260
www.VerdeDesigninc.com

CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

GRADING PLAN

Approved by _____ Date _____
MARIA ESTHER CARRANZA RODRIGUEZ

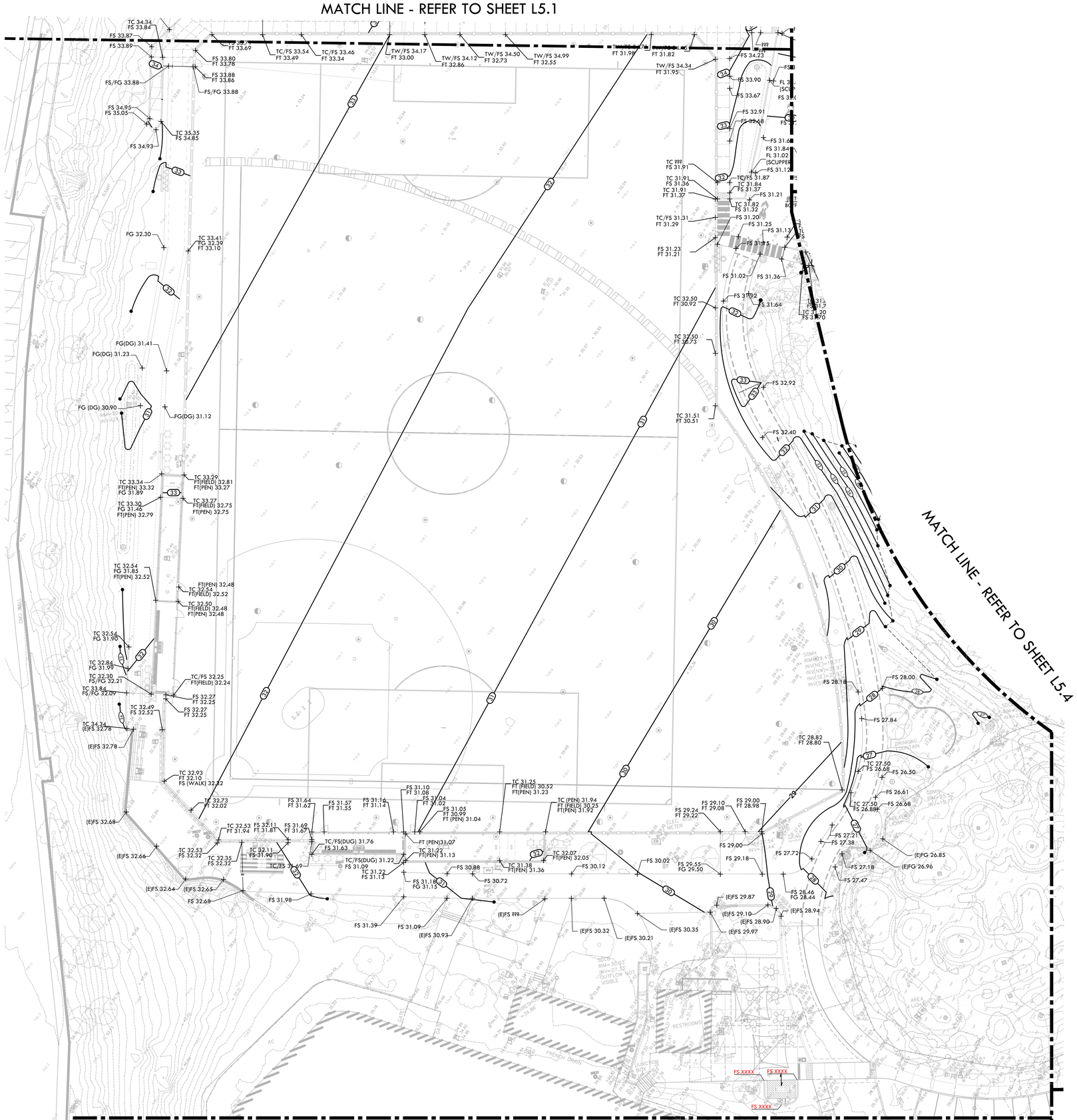
Designed by	DL	Job No. 2106300	SHEET L5.1
Drawn by	DL		
Checked by	TY/DM	Scale 1"=20'-0"	X of 106

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

DRAWING NAME: Y:\Projects-SC\2021\2106300 - Watsonville Ramsay Park Improvements\cad_GRD.dwg
PLOT DATE: 07-01-22 PLOTTED BY: station78

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4


MATCH LINE - REFER TO SHEET L5.1
MATCH LINE - REFER TO SHEET L5.4
TC 34.34
FS 33.84
FS 33.87
FS 33.89
FS 33.80
FT 33.78
FT 33.69
TC/FS 33.54
FT 33.49
TC/FS 33.46
FT 33.34
TW/FS 34.17
FT 33.00
TW/FS 34.12
FT 32.86
TW/FS 34.50
FT 32.73
TW/FS 34.99
FT 32.55
FT 31.98
FT 31.82
TW/FS 34.34
FT 31.95
FS 34.23
FS 33.90
FS 33.67
FS 32.91
FS 32.48
FS 31.68
FS 31.84
FL 31.02
(SCUPPER
FS 31.12
TC 31.91
FS 31.36
TC 31.91
FT 31.37
TC/FS 31.87
TC 31.84
FS 31.37
FS 31.21
TC 31.82
FS 31.32
FS 31.20
FS 31.25
FS 31.13
FS 31.15
TC/FS 31.31
FT 31.29
FS 31.23
FT 31.21
FS 31.02
FS 31.36
TC 32.50
FT 30.92
FS 31.92
FS 31.64
TC 32.30
FT 30.73
FS 32.92
TC 31.51
FT 30.51
FS 32.40
FS 33.88
FT 33.86
FS/FG 33.88
FS 34.95
FS 35.05
TC 35.35
FS 34.85
FS 34.93
FG 32.30
TC 33.41
TC 32.39
FT 33.10
FG(DG) 31.41
FG(DG) 31.23
FG (DG) 30.90
FG(DG) 31.12
TC 33.34
FT(PEN) 33.32
FG 31.89
TC 33.29
FT(FIELD) 32.81
FT(PEN) 33.27
TC 33.30
FG 31.46
FT(PEN) 32.79
TC 33.27
FT(FIELD) 32.75
FT(PEN) 32.75
TC 32.54
FG 31.85
FT(PEN) 32.52
FT(PEN) 32.48
TC 32.54
FT(FIELD) 32.52
TC 32.50
FT(FIELD) 32.48
FT(PEN) 32.48
TC 32.54
FG 31.90
TC 32.84
FG 31.99
TC 32.30
FS/FG 32.21
TC 33.84
FS/FG 32.09
TC/FS 32.25
FT(FIELD) 32.24
FS 32.27
FT 32.25
FS 32.27
FT 32.25
TC 32.49
FS 32.52
TC 34.34
(E)FS 32.78
(E)FS 32.78
TC 32.93
FT 32.10
FS (WALK) 32.12
TC 32.73
FT 32.02
FS 31.64
FT 31.67
FS 31.57
FT 31.55
FS 31.16
FT 31.14
FS 31.10
FT 31.08
FS 31.04
FT 31.02
FS 31.05
FT 30.99
FT (PEN) 31.04
TC 31.25
FT (FIELD) 30.52
FT(PEN) 31.23
TC (PEN) 31.94
FT (FIELD) 30.25
FT(PEN) 31.92
FS 29.24
FT 29.22
FS 29.10
FT 29.08
FS 29.00
FT 28.98
FS 28.18
FS 28.00
FS 27.84
TC 28.82
FT 28.80
TC 27.50
FS 26.68
FS 26.50
FS 26.61
TC 27.50
FS 26.88
FS 26.68
(E)FG 26.85
(E)FG 26.96
FS 27.27
FS 27.38
FS 27.18
FS 27.47
FS 27.72
FS 29.00
FS 29.18
FS 29.55
FG 29.50
FS 30.02
FS 30.12
TC 32.07
FT(PEN) 32.05
TC 31.39
FT(PEN) 31.36
FS 30.88
FS 30.72
TC 31.22
FS 31.13
FS 31.18
FG 31.13
TC/FS(DUG) 31.22
FS 31.09
TC/FS(DUG) 31.76
FS 31.63
TC 31.22
FT(PEN) 31.13
FT (PEN)31.07
TC 32.11
FS 31.90
TC 32.53
FS 32.32
TC 32.35
FS 32.32
TC 32.53
FT 31.94
FS 32.11
FT 31.81
FS 31.69
FT 31.67
TC/FS 31.69
FS 31.98
(E)FS 32.66
(E)FS 32.64
(E)FS 32.65
FS 32.68
(E)FS 32.68
FS 31.39
FS 31.09
(E)FS 30.93
(E)FS ???
(E)FS 30.32
(E)FS 30.21
(E)FS 30.35
(E)FS 29.97
(E)FS 29.87
(E)FS 29.10
(E)FS 28.90
(E)FS 28.94
FS 28.46
FG 28.44
FS XXXX
FS XXXX
FS XXXX
CMU WALL
RAMP
CONC.
RESTROOMS
DRINKING FOUNTAIN
ELEC. METER
AREA LIGHT
SSMH
INV(E)=29.47
INV(W)=29.37
INV(E)=29.37
INV(W)=29.27
SSMH
RIM=29.61
INV=27.36
OUTFLOW NOT VISIBLE
INV=29.15

GRADING NOTES

1. EXISTING GRADES ARE BASED ON INFORMATION PROVIDED BY: _____. CONTRACTOR SHALL VERIFY EXISTING GRADES FOR ACCURACY PRIOR TO THE START OF GRADING, NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY SHOULD CONFLICTS ARISE AND REDIRECT WORK TO AVOID DELAY.
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4. ALL EXISTING DRAINAGE STRUCTURES, BOXES, UTILITY VAULTS ETC. SHALL BE BROUGHT TO FINAL FINISH GRADE PRIOR TO FINAL SURFACE TREATMENT.

GRADING LEGEND

SYM.	DESCRIPTION
85	PROPOSED CONTOUR
85	PROPOSED SUBGRADE CONTOUR
FG 32.00	PROPOSED FINISH GRADE ELEVATION OF SOFTSCAPE
FT 32.00	PROPOSED ELEVATION OF TOP OF SYNTHETIC TURF INFILL
FS 32.00	PROPOSED FINISH SURFACE ELEVATION OF HARDSCAPE
HP 32.00	HIGH POINT/ HIGH POINT OF SWALE
LP 31.00	LOW POINT
RIM 31.00	RIM ELEVATION OF DRAIN
SG 32.00	PROPOSED FINISH SUGRADE ELEVATION
TC 32.50	TOP OF CURB
BC 32.50	BOTTOM OF CURB
TR 32.50	TOP OF RISER
BR 32.50	BOTTOM OF RISER
TW 34.00	TOP OF WALL
BW 34.00	BOTTOM OF WALL
FF 99.00	FINISHED FLOOR ELEVATION
FL 99.00	FLOW LINE ELEVATION
TD 99.00	TOP OF TRENCH DRAIN
TC (N) XX.XX TC (S) XX.XX	TOP OF CURB (NORTH) TOP OF CURB (SOUTH)
	CENTER LINE OF SWALE
R	CROWN OF FIELD, OR RIDGE LINE
L	LOW POINT OF FIELD
	CONFORM TO EXISTING GRADE
	LIMIT OF GRADING - CONFORM TO EXISTING GRADES AT THIS LINE
	FLOW DIRECTION IN SOFTSCAPE
102	EXISTING CONTOUR
+ 102.1	EXISTING ELEVATION

MAIN STREET

CAL TRANS R.O.W.

MATCH LINE - REFER TO SHEET L4.1

MATCH LINE - REFER TO SHEET L5.4

REFER TO SHEET L4.31 FOR ENLARGEMENT #1

REFER TO SHEET L4.31 FOR ENLARGEMENT #2

NORTH

0 10' 20' 40' 60'

REGISTERED LANDSCAPE ARCHITECT
DEREK MCKEE
No. 4148
Signature
EXPIRATION DATE: DEC. 2022
STATE OF CALIFORNIA

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
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CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

GRADING PLAN

Approved by _____ Date _____
MARIA ESTHER CARRANZA RODRIGUEZ

Designed by BD | Job No. 2106300 | SHEET L5.3
Drawn by AR | Scale 1"=20'-0" | X of 106
Checked by TY/DM

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4

DRAWING NAME: Y:\Projects-SC\2021\2106300 - Watsonville Ramsay Park Improvements\cad_GRD.dwg
PLOT DATE: 07-01-22 PLOTTED BY: station78

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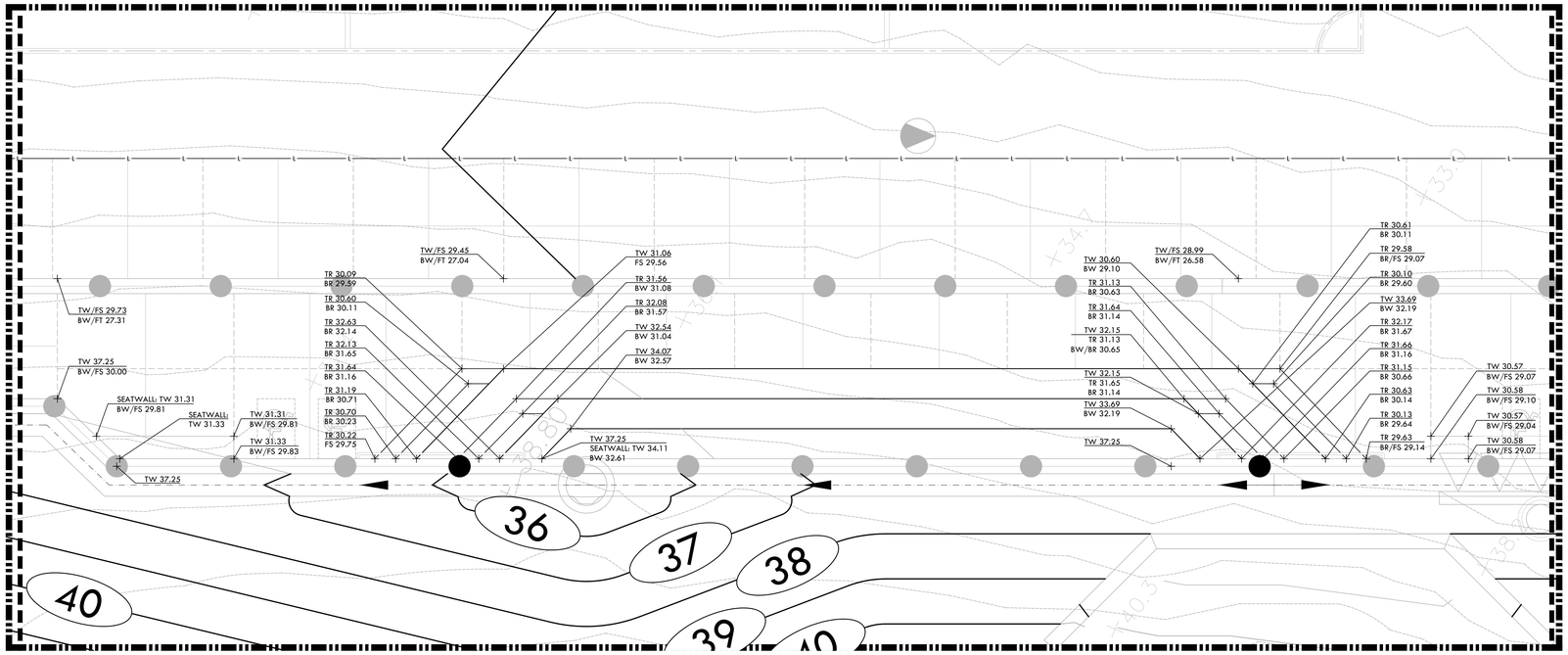
MATCH LINE - REFER TO SHEET L5.3

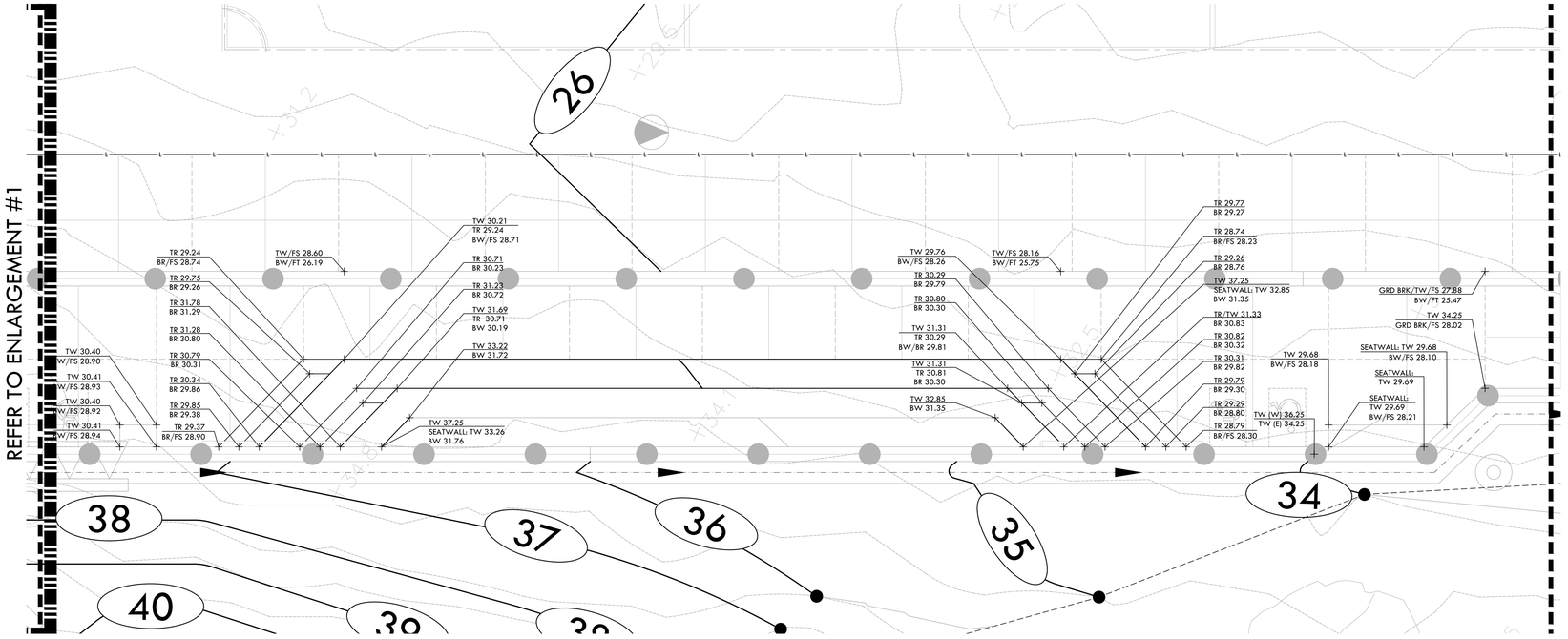
REFER TO ENLARGEMENT #2



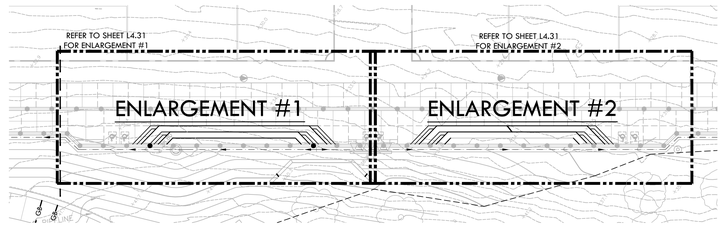
ENLARGEMENT #1

REFER TO ENLARGEMENT #1

REFER TO SHEET L5.3



ENLARGEMENT #2



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GRADING LEGEND

SYM.	DESCRIPTION
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LP 31.00	LOW POINT
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SG 32.00	PROPOSED FINISH SUGRADE ELEVATION
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BC 32.50	BOTTOM OF CURB
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BR 32.50	BOTTOM OF RISER
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BW 34.00	BOTTOM OF WALL
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TC (N) XX.XX TC (S) XX.XX	TOP OF CURB (NORTH) TOP OF CURB (SOUTH)
	CENTER LINE OF SWALE
R	CROWN OF FIELD, OR RIDGE LINE
L	LOW POINT OF FIELD
	CONFORM TO EXISTING GRADE
	LIMIT OF GRADING - CONFORM TO EXISTING GRADES AT THIS LINE
	FLOW DIRECTION IN SOFTSCAPE
102	EXISTING CONTOUR
+ 102.1	EXISTING ELEVATION

NORTH

0 2' 4' 8' 12'

REGISTERED LANDSCAPE ARCHITECT
DEREK MEIER
No. 4148
Signature
EXPIRATION DATE: DEC. 2022
STATE OF CALIFORNIA

VERDE DESIGN
LANDSCAPE ARCHITECTURE
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CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

GRADING PLAN

Approved by _____ Date _____
MARIA ESTHER CARRANZA RODRIGUEZ

Designed by BD
Drawn by AR
Checked by TY/DM

Job No. 2106300
Scale 1"=20'-0"

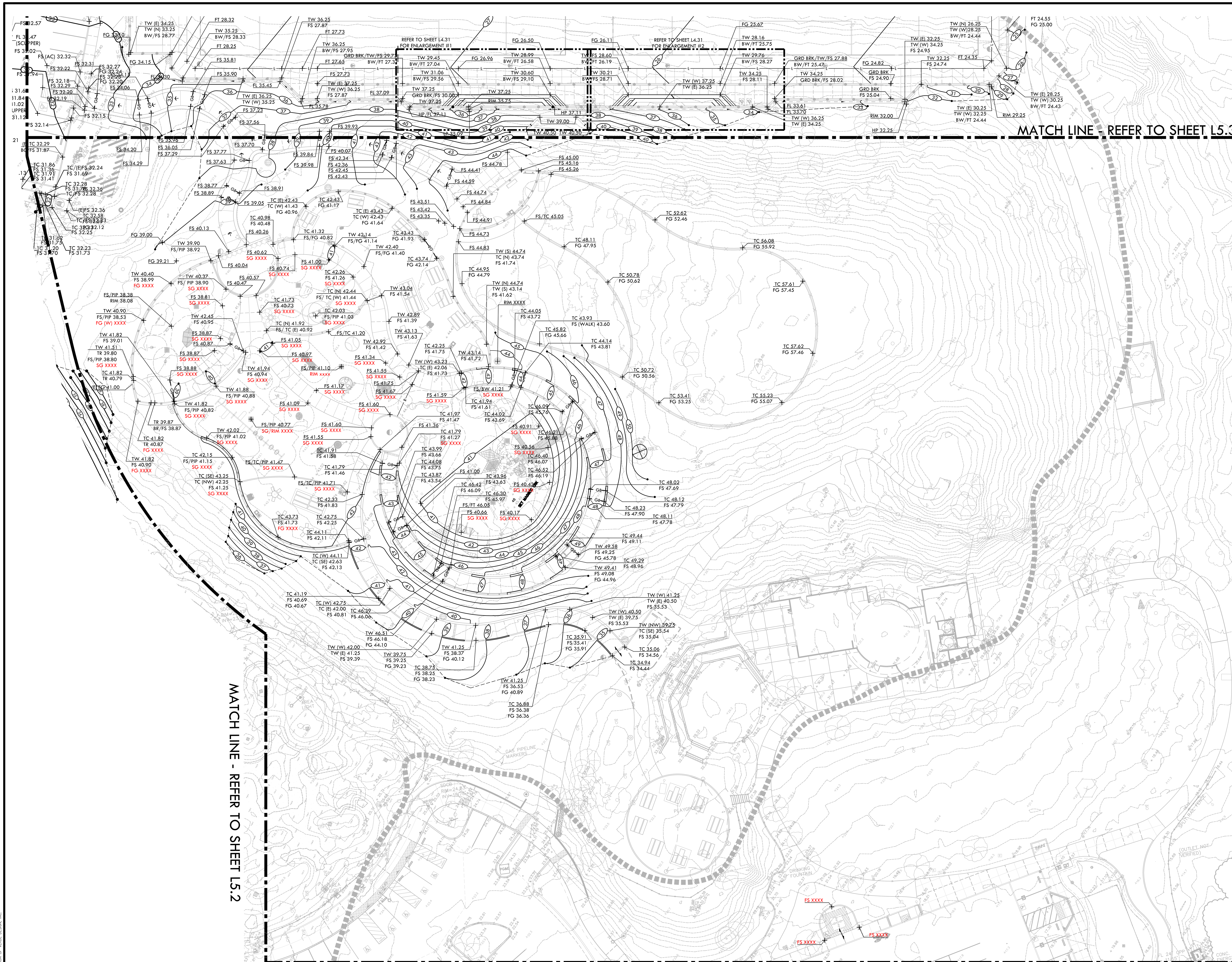
SHEET L5.31
X of 106

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

DRAWING NAME: X:\Projects-SC\2021\2106300 - Watsonville Ramsay Park Improvements\cad_GRD.dwg
PLOT DATE: 07-01-22 PLOTTED BY: station78

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4



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GRADING LEGEND

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	FLOW DIRECTION IN SOFTSCAPE
102	EXISTING CONTOUR
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REGISTERED LANDSCAPE ARCHITECT
DEREK McKEE
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Signature
EXPIRATION DATE: DEC. 2022
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CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

GRADING PLAN

Approved by MARIA ESTHER CARRANZA RODRIGUEZ
Date ________

Designed by BD
Drawn by AR
Checked by TY/DM
Job No. 2106300
Scale 1"=20'-0"
SHEET L5.4
X of 106

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4

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PLOT DATE: 07-01-22 PLOTTED BY: station78

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LAYOUT LEGEND

SYMBOL	DESCRIPTION
	SECTION
	ELEVATION

MAIN STREET

OIL TANK ROAD

SECTION 1A

SECTION 1B

SECTION 1C

SECTION 1D

SECTION 1E

SECTION 1F

SECTION 1G

SECTION 1H

SECTION 1I

SECTION 1J

SECTION 1K

SECTION 1L

SECTION 1M

SECTION 1N

SECTION 1O

SECTION 1P

SECTION 1Q

SECTION 1R

SECTION 1S

SECTION 1T

SECTION 1U

SECTION 1V

SECTION 1W

SECTION 1X

SECTION 1Y

SECTION 1Z

SECTION 2A

SECTION 2B

SECTION 2C

SECTION 2D

SECTION 2E

SECTION 2F

SECTION 2G

SECTION 2H

SECTION 2I

SECTION 2J

SECTION 2K

SECTION 2L

SECTION 2M

SECTION 2N

SECTION 2O

SECTION 2P

SECTION 2Q

SECTION 2R

SECTION 2S

SECTION 2T

SECTION 2U

SECTION 2V

SECTION 2W

SECTION 2X

SECTION 2Y

SECTION 2Z

SECTION 3A

SECTION 3B

SECTION 3C

SECTION 3D

SECTION 3E

SECTION 3F

SECTION 3G

SECTION 3H

SECTION 3I

SECTION 3J

SECTION 3K

SECTION 3L

SECTION 3M

SECTION 3N

SECTION 3O

SECTION 3P

SECTION 3Q

SECTION 3R

SECTION 3S

SECTION 3T

SECTION 3U

SECTION 3V

SECTION 3W

SECTION 3X

SECTION 3Y

SECTION 3Z

SECTION 4A

SECTION 4B

SECTION 4C

SECTION 4D

SECTION 4E

SECTION 4F

SECTION 4G

SECTION 4H

SECTION 4I

SECTION 4J

SECTION 4K

SECTION 4L

SECTION 4M

SECTION 4N

SECTION 4O

SECTION 4P

SECTION 4Q

SECTION 4R

SECTION 4S

SECTION 4T

SECTION 4U

SECTION 4V

SECTION 4W

SECTION 4X

SECTION 4Y

SECTION 4Z

SECTION 5A

SECTION 5B

SECTION 5C

SECTION 5D

SECTION 5E

SECTION 5F

SECTION 5G

SECTION 5H

SECTION 5I

SECTION 5J

SECTION 5K

SECTION 5L

SECTION 5M

SECTION 5N

SECTION 5O

SECTION 5P

SECTION 5Q

SECTION 5R

SECTION 5S

SECTION 5T

SECTION 5U

SECTION 5V

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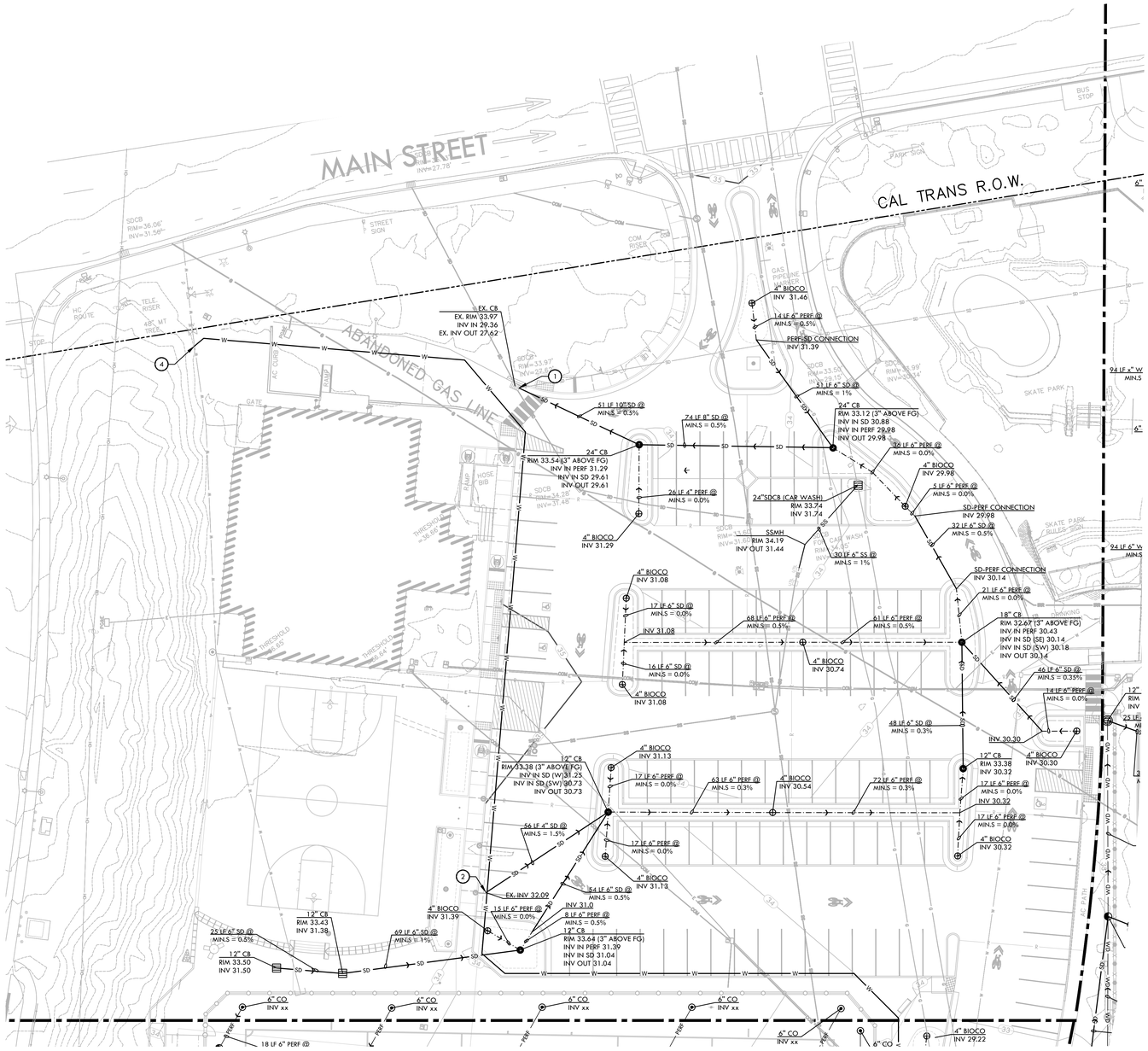

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DRAINAGE & UTILITY LEGEND

SYM	DESCRIPTION			DETAIL NUMBER / SHEET NUMBER
	JUNCTION BOX (JB), SIZE PER PLAN			
	CATCH BASIN IN HARDSCAPE, SIZE PER PLAN			
	CATCH BASIN IN SOFTSCAPE, SIZE PER PLAN			
	CATCH BASIN UNDER RESILIENT SURFACING WITH AGGREGATE BASE , SIZE PER PLAN			
	RAISED CATCH BASIN (3" ABOVE FINISH GRADE), SIZE PER PLAN			
	CATCH BASIN UNDER SYNTHETIC TURF AT BULLPEN/BATTING CAGE, SIZE PER PLAN			
	CLEANOUT IN BIOTREATMENT AREA (BIOCO)			
	CLEANOUT IN NATURAL TURF			
	CLEANOUT IN SYNTHETIC TURF			
	CLEANOUT IN SOFTSCAPE			
	ENERGY DISSIPATOR (ED)			
	TRENCH DRAIN CATCH BASIN			
SD	SOLID WALL STORM DRAIN			
PERF	PERFORATED SUBDRAIN LINE			
	PERFORATED SUBDRAIN LINE IN BIOTREATMENT AREA			
WD	WALL DRAIN			
VD	VERTICAL PERFORATED DRAIN			
DOM	2" DOMESTIC WATER LINE - REFER TO SPECIFICATIONS			
W	NEW XX" MAIN WATER LINE AT XX" DEPTH			
	2" DOMESTIC WATER LINE GATE VALVE - NIBCO T-113LF			
SS	SANITARY SEWER LINE			
D	DRYWELL			
	BIOTREATMENT AREA - REFER TO GRADING PLAN FOR MORE INFORMATION			
(E)	EXISTING	CB	CATCH BASIN	
INV	INVERT	RIM	RIM ELEVATION	
TOR	TOP OF ROCK ELEVATION	LF	LINEAR FEET	
COTG	CLEANOUT TO GRADE			
S=0.5%	SLOPE	MIN.	MINIMUM	
N, S, W, E	NORTH, SOUTH, WEST, EAST	TD	TRENCH DRAIN ELEVATION	
1	REPLACE A JUNCTION BOX AT EXISTING CATCH BASIN AND TIE THE STORM WATER PIPE TO EXISTING STORM DRAIN SYSTEM			
2	TIE STORM DRAIN INTO EXISTING PHASE 1STORM DRAIN LINE - CONTRACTOR TO FIELD VERIFY INVERT ELEVATION			
3	TIE STORM DRAIN INTO EXISTING STORM DRAIN LINE			
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5	DOMESTIC WATER CONNECTION TO DRINKING FOUNTAIN			
6	SANITARY WATER CONNECTION TO DRINKING FOUNTAIN			

NORTH

0 10' 20' 40' 60'

REGISTERED LANDSCAPE ARCHITECT — DEREK MCREE — No. 4148 — Signature — EXPIRATION DATE: DEC. 2022 — STATE OF CALIFORNIA

VERDE DESIGN
LANDSCAPE ARCHITECTURE
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CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

DRAINAGE / UTILITY PLANS

Approved by: MARIA ESTHER CARRANZA RODRIGUEZ — Date:

Designed by DL — Drawn by DL — Checked by TY/DM — Job No. 2106300 — Scale 1"=20'-0"

SHEET L6.1 X of 106

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE PRIOR WRITTEN PERMISSION OF VERDE DESIGN, INC.

DRAWING NAME: Y:\Projects-SC\2021\2106300 - Watsonville Ramsay Park Improvements\cad_DRN.dwg
PLOT DATE: 07-01-22 PLOTTED BY: station78

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4



DRAINAGE & UTILITY NOTES

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DRAINAGE & UTILITY LEGEND

SYM	DESCRIPTION	DETAIL NUMBER / SHEET NUMBER
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▤	CATCH BASIN IN HARDSCAPE, SIZE PER PLAN	- / -
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	CATCH BASIN UNDER RESILIENT SURFACING WITH AGGREGATE BASE , SIZE PER PLAN	- / -
✪	RAISED CATCH BASIN (3" ABOVE FINISH GRADE), SIZE PER PLAN	- / -
◒	CATCH BASIN UNDER SYNTHETIC TURF AT BULLPEN/BATTING CAGE, SIZE PER PLAN	- / -
⊕	CLEANOUT IN BIOTREATMENT AREA (BIOCO)	- / -
◒	CLEANOUT IN NATURAL TURF	- / -
◉	CLEANOUT IN SYNTHETIC TURF	- / -
◎	CLEANOUT IN SOFTSCAPE	- / -
◁	ENERGY DISSIPATOR (ED)	- / -
▬▬	TRENCH DRAIN CATCH BASIN	- / -
SD	SOLID WALL STORM DRAIN	- / -
PERF	PERFORATED SUBDRAIN LINE	- / -
	PERFORATED SUBDRAIN LINE IN BIOTREATMENT AREA	- / -
WD	WALL DRAIN	- / -
VD	VERTICAL PERFORATED DRAIN	- / -
DOM	2" DOMESTIC WATER LINE - REFER TO SPECIFICATIONS	- / -
W	NEW XX" MAIN WATER LINE AT XX" DEPTH	- / -
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SS	SANITARY SEWER LINE	- / -
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REGISTERED LANDSCAPE ARCHITECT DEREK MORES No. 4148 Signature EXPIRATION DATE: DEC. 2022 STATE OF CALIFORNIA

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RAMSAY PARK RENAISSANCE PROJECT

DRAINAGE / UTILITY PLANS

Approved by _____ Date _____
MARIA ESTHER CARRANZA RODRIGUEZ

Designed by DL | Drawn by DL | Checked by TY/DM | Job No. 2106300 | Scale 1"=20'-0" | SHEET L6.2 X of 106

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4

DRAWING NAME: Y:\Projects-SC\2021\2106300 - Watsonville Ramsay Park Improvements\cad_DRN.dwg
PLOT DATE: 07-01-22 PLOTTED BY: station78

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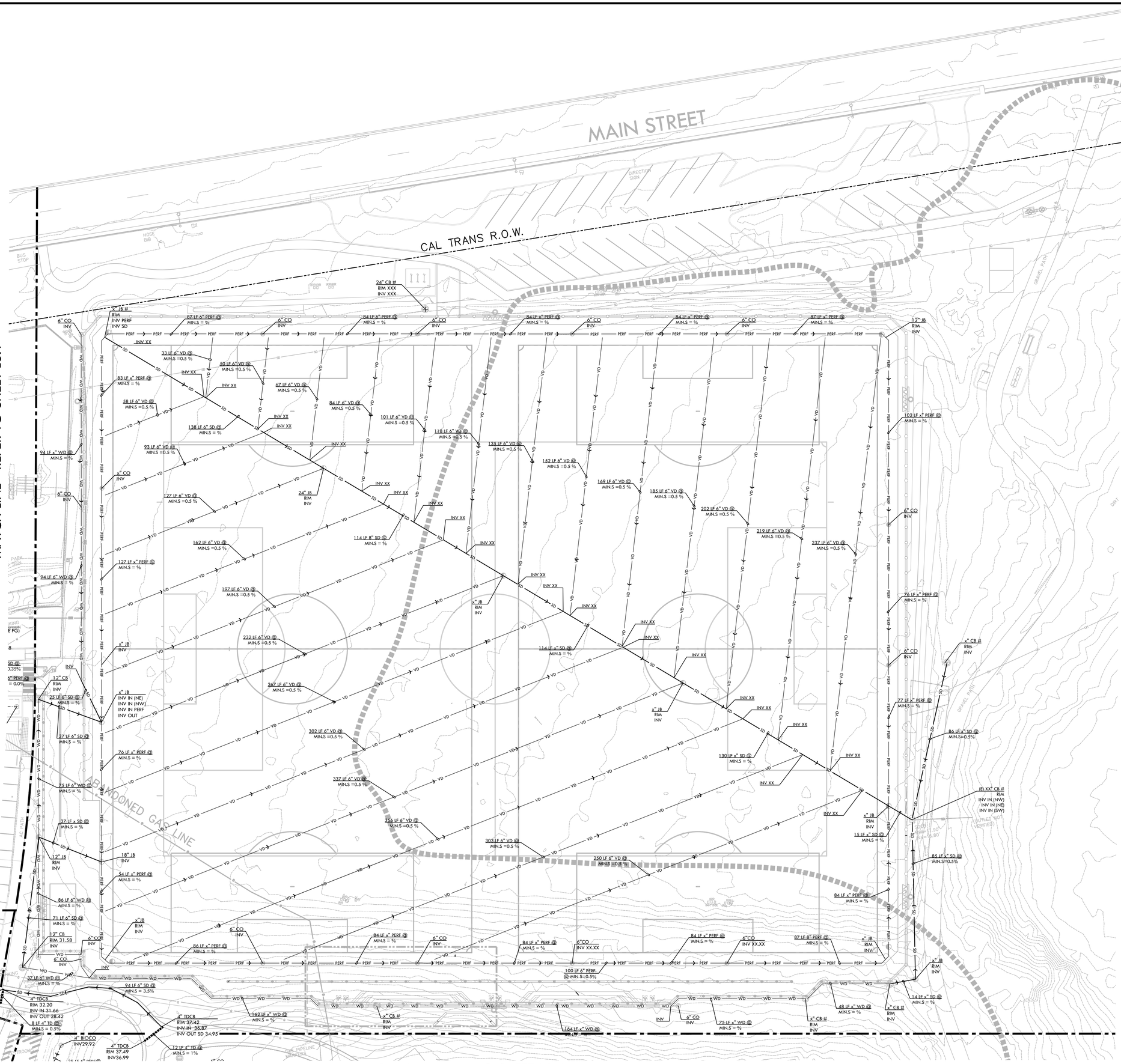

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DRAINAGE & UTILITY LEGEND

SYM	DESCRIPTION	DETAIL NUMBER / SHEET NUMBER
	JUNCTION BOX (JB), SIZE PER PLAN	
	CATCH BASIN IN HARDSCAPE, SIZE PER PLAN	
	CATCH BASIN IN SOFTSCAPE, SIZE PER PLAN	
	CATCH BASIN UNDER RESILIENT SURFACING WITH AGGREGATE BASE , SIZE PER PLAN	
	RAISED CATCH BASIN (3" ABOVE FINISH GRADE), SIZE PER PLAN	
	CATCH BASIN UNDER SYNTHETIC TURF AT BULLPEN/BATTING CAGE, SIZE PER PLAN	
	CLEANOUT IN BIOTREATMENT AREA (BIOCO)	
	CLEANOUT IN NATURAL TURF	
	CLEANOUT IN SYNTHETIC TURF	
	CLEANOUT IN SOFTSCAPE	
	ENERGY DISSIPATOR (ED)	
	TRENCH DRAIN CATCH BASIN	
SD	SOLID WALL STORM DRAIN	
PERF	PERFORATED SUBDRAIN LINE	
	PERFORATED SUBDRAIN LINE IN BIOTREATMENT AREA	
WD	WALL DRAIN	
VD	VERTICAL PERFORATED DRAIN	
DOM	2" DOMESTIC WATER LINE - REFER TO SPECIFICATIONS	
W	NEW XX" MAIN WATER LINE AT XX" DEPTH	
	2" DOMESTIC WATER LINE GATE VALVE - NIBCO T-113LF	
SS	SANITARY SEWER LINE	
D	DRYWELL	
	BIOTREATMENT AREA - REFER TO GRADING PLAN FOR MORE INFORMATION	

(E)	EXISTING	CB	CATCH BASIN
INV	INVERT	RIM	RIM ELEVATION
TOR	TOP OF ROCK ELEVATION	LF	LINEAR FEET
COTG	CLEANOUT TO GRADE		
S=0.5%	SLOPE	MIN.	MINIMUM
N, S, W, E	NORTH, SOUTH, WEST, EAST	TD	TRENCH DRAIN ELEVATION

1	REPLACE A JUNCTION BOX AT EXISTING CATCH BASIN AND TIE THE STORM WATER PIPE TO EXISTING STORM DRAIN SYSTEM
2	TIE STORM DRAIN INTO EXISTING PHASE 1 STORM DRAIN LINE - CONTRACTOR TO FIELD VERIFY INVERT ELEVATION
3	TIE STORM DRAIN INTO EXISTING STORM DRAIN LINE
4	DOMESTIC WATER POINT OF CONNECTION TO EXISTING SYSTEM, CONTRACTOR TO VERIFY PIPE SIZE AND TYP PRIOR TO CONSTRUCTION
5	DOMESTIC WATER CONNECTION TO DRINKING FOUNTAIN
6	SANITARY WATER CONNECTION TO DRINKING FOUNTAIN

NORTH

0 10' 20' 40' 60'

REGISTERED LANDSCAPE ARCHITECT
DEREK MCKEE
No. 4148
Signature
EXPIRATION DATE: DEC. 2022
STATE OF CALIFORNIA

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
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Santa Clara, CA 95050
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www.VerdeDesigninc.com

CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

DRAINAGE / UTILITY PLANS

Approved by _____ Date _____
MARIA ESTHER CARRANZA RODRIGUEZ

Designed by	BD	Job No.	2106300
Drawn by	PE	Scale	1"=20'-0"
Checked by	TY/DM		

SHEET L6.3
X of 106

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES
0 1 2 3 4

DRAWING NAME: Y:\Projects-SC\2021\2106300 – Watsonville Ramsay Park Improvements\cad_DRN.dwg
PLOT DATE: 07-01-22 PLOTTED BY: station78

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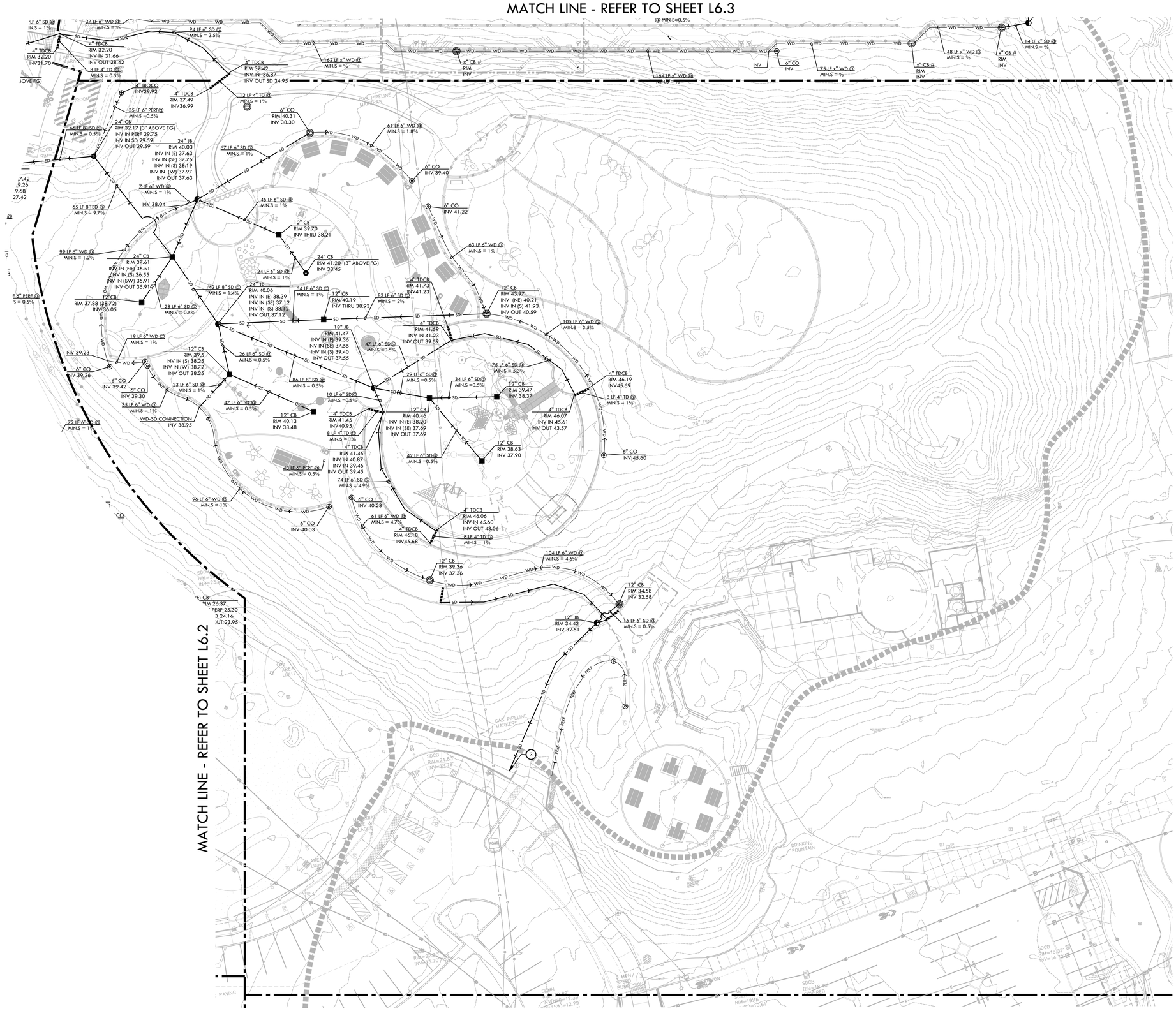
MATCH LINE - REFER TO SHEET L6.3

MATCH LINE - REFER TO SHEET L6.2



DRAINAGE & UTILITY NOTES

1. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES, AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES, AND SERVICES SHOWN IN THE CONTRACT DOCUMENTS SHALL BE DEEMED TO BE APPROXIMATIONS ONLY. ALL DISCREPANCIES BETWEEN WHAT IS SHOWN AND THE ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER REPRESENTATIVE. THE CONTRACTOR SHALL CONTACT UNDER GROUND SERVICE ALERT (USA) AT (800) 227-2600 PRIOR TO ANY DEMOLITION OR EXCAVATION. UPON COMPLETION OF USA MARKING OPERATIONS, CONTRACTOR SHALL RECORD ALL UTILITY MARKINGS ON A SEPARATE SET OF DRAWINGS. THIS SET SHALL BE KEPT ON-SITE FOR REFERENCE FOR DURATION OF CONTRACT.
2. ALL EXISTING DRAINAGE STRUCTURES, BOXES, UTILITY VAULTS ETC. TO REMAIN, SHALL BE BROUGHT TO FINAL FINISH GRADE PRIOR TO FINAL SURFACE TREATMENT.
3. THE CONTRACTOR IS TO PROTECT DRAINAGE SYSTEM FROM DEBRIS, INCLUDING SOIL, ROCK MATERIAL, AND TRASH FROM ENTERING THE PIPE DURING CONSTRUCTION. CONTRACTOR SHALL AVOID PLACING CONSTRUCTION VEHICLES OVER INSTALLED DRAINAGE TRENCHES TO PREVENT CRUSHING OF PIPE.
4. COORDINATE ALL SLEEVING AND UTILITY LOCATIONS AS SHOWN ON THE PLANS AND DETAILS CONTAINED WITHIN THESE CONTRACT DOCUMENTS.
5. THE CONTRACTOR IS TO ENSURE THAT ALL REMAINING ACTIVE AND NEW DRAINAGE AND UTILITY LINES ARE PROTECTED AND UNDAMAGED FROM TRENCHING AND FOOTING EXCAVATIONS FOR NEW FOOTINGS, PARTICULARLY FOR NEW FENCING AND WALLS.
6. ALL ABANDONED STORM LINES SHALL REMAIN IN PLACE UNLESS IN CONFLICT WITH PROPOSED DRAINAGE, UTILITY, OR SUBGRADING OPERATIONS, IN WHICH CASE ABANDONED PIPE IN CONFLICT SHALL BE REMOVED. REMAINING ABANDONED STORM PIPE SHALL BE SEALED WITH APPROPRIATELY SIZED CONCRETE CAP (3 SACK MIX) 6" ENVELOPE OUTSIDE AND INSIDE DIAMETER OF PIPE.
7. PRIOR TO ALL DRAINAGE AND UTILITY WORK, CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL POTENTIAL DRAINAGE CONNECTIONS AND EXISTING UTILITY BY POTHOLING. IN ADDITION, ALL DOWNSTREAM CONNECTIONS TO EXISTING STRUCTURES SHALL BE THE START OF THESE OPERATIONS, AND GRADES SHALL BE VERIFIED.
8. WHEN WORK HAS TO OCCUR UNDER THE DRIPLINE OF EXISTING TREES NOT SCHEDULED FOR REMOVAL, THE CONTRACTOR SHALL USE ALL POSSIBLE CARE TO AVOID INJURY TO THE TREES AND TREE ROOTS. GRADE IN LINES RADIAL TO THE EXISTING TREES RATHER THAN TANGENTIAL. ALL PARTIAL CUTS OR TEARS THROUGH ROOTS TWO INCHES IN DIAMETER AND LARGER SHALL BE CUT CLEAN. TRENCHES ADJACENT TO TREES SHALL BE FILLED WITHIN 24 HOURS AFTER EXCAVATION, BUT WHERE THIS IS NOT POSSIBLE, THE SIDE OF THE TRENCH ADJACENT TO THE TREE AND ANY EXPOSED ROOTS SHALL BE KEPT SHADED AND MOIST WITH DAMPENED BURLAP OR CANVAS.

DRAINAGE & UTILITY LEGEND

SYM	DESCRIPTION	DETAIL NUMBER / SHEET NUMBER
	JUNCTION BOX (JB), SIZE PER PLAN	
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	RAISED CATCH BASIN (3" ABOVE FINISH GRADE), SIZE PER PLAN	
	CATCH BASIN UNDER SYNTHETIC TURF AT BULLPEN/BATTING CAGE, SIZE PER PLAN	
	CLEANOUT IN BIOTREATMENT AREA (BIOCO)	
	CLEANOUT IN NATURAL TURF	
	CLEANOUT IN SYNTHETIC TURF	
	CLEANOUT IN SOFTSCAPE	
	ENERGY DISSIPATOR (ED)	
	TRENCH DRAIN CATCH BASIN	
SD	SOLID WALL STORM DRAIN	
PERF	PERFORATED SUBDRAIN LINE	
	PERFORATED SUBDRAIN LINE IN BIOTREATMENT AREA	
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VD	VERTICAL PERFORATED DRAIN	
DOM	2" DOMESTIC WATER LINE - REFER TO SPECIFICATIONS	
W	NEW XX" MAIN WATER LINE AT XX" DEPTH	
	2" DOMESTIC WATER LINE GATE VALVE - NIBCO T-113LF	
SS	SANITARY SEWER LINE	
D	DRYWELL	
	BIOTREATMENT AREA - REFER TO GRADING PLAN FOR MORE INFORMATION	

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TOR	TOP OF ROCK ELEVATION	LF	LINEAR FEET
COTG	CLEANOUT TO GRADE		
S=0.5%	SLOPE	MIN.	MINIMUM
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6	SANITARY WATER CONNECTION TO DRINKING FOUNTAIN

REGISTERED LANDSCAPE ARCHITECT — DEREK MCREE — No. 4148 — Signature — EXPIRATION DATE: DEC. 2022 — STATE OF CALIFORNIA

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CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

DRAINAGE / UTILITY PLANS

Approved by MARIA ESTHER CARRANZA RODRIGUEZ — Date

Designed by DL — Drawn by DL — Checked by TY/DM — Job No. 2106300 — Scale 1"=20'-0"

SHEET L6.4 X of 106

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE PRIOR WRITTEN PERMISSION OF VERDE DESIGN, INC.

DRAWING NAME: Y:\Projects-SC\2021\2106300 - Watsonville Ramsay Park Improvements\cad_DRN.dwg
PLOT DATE: 07-01-22 PLOTTED BY: station78

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4

STORMWATER MANAGEMENT PLAN LEGEND

SYM	DESCRIPTION	SYM	DESCRIPTION
	DRAINAGE MANAGEMENT AREA LIMITS		FLOW DIRECTION
DMA-#	DRAINAGE MANAGEMENT AREA IDENTIFICATION # - REFER TO TABLES		SELF-RETAINING PERVIOUS SURFACE
SCM-#	STORMWATER CONTROL MEASURE IDENTIFICATION # - REFER TO TABLES		REPLACED IMPERVIOUS SURFACE - DRAINING TO A SCM
	STORMWATER CONTROL MEASURE - BIOFILTRATION AREA		NEW IMPERVIOUS SURFACE - DRAINING TO A SCM
	SELF-TREATING PERVIOUS SURFACE		IMPERVIOUS SURFACE - DRAIN TO EXISTING SCM

STORMWATER QUALITY CONTROL NOTES

1. THE AREA OF THE PROJECT SITE IS APPROXIMATELY 11.22 ACRES.
2. REFER TO EXISTING CONDITIONS PLANS FOR INFORMATION OF EXISTING DRAINAGE, SANITARY SEWER, AND UTILITIES.
3. REFER TO GRADING PLANS FOR MORE INFORMATION OF PROPOSED GRADING DESIGN.
4. REFER TO DRAINAGE AND UTILITY PLANS FOR MORE INFORMATION OF PROPOSED DRAINAGE DESIGN.
5. STORMWATER MANAGEMENT PLAN COMPLIES WITH THE CITY OF WATSONVILLE STORMWATER POST-CONSTRUCTION STANDARDS.

TABLE A - DRAINAGE MANAGEMENT AREA SUMMARY

Dainage Management Area	Area (SF)	Type of Surface	New/Replaced	DMA Type	DMA Connects/ Drains to
1	1528	Asphalt/Concrete Paving	Replaced	Drains to SCM	SCM-1
2	1173	Asphalt/Concrete Paving	Replaced	Drains to SCM	SCM-1
3	600	Asphalt/Concrete Paving	New	Drains to DMA	DMA3a
3a	803	Planting Area	Existing	Self Treating	-
4	671	Planting Area	New	Self Treating	-
5	1954	Asphalt/Concrete Paving	Replaced	Drains to SCM	SCM-2
6	178	Planting Area	New	Self Treating	-
6a	25	Planting Area	New	Self Treating	-
7	803	Permeable Paver	Replaced	Self Treating	-
8	3952	Asphalt/Concrete Paving	Replaced	Drains to SCM	SCM-3
9	112	Planting Area	New	Self Treating	-
10	111	Asphalt/Concrete Paving	Replaced	Drains to SCM	SCM-3
11	472	Asphalt/Concrete Paving	Replaced	Drains to SCM	SCM-4
12	990	Asphalt/Concrete Paving	Replaced	Drains to DMA,SCM	DMA-14; SCM-4
12a	3297	Asphalt/Concrete Paving	Replaced	Drains to SCM	SCM-4
13	1337	Planting Area	New	Self Treating	-
14	574	Permeable Paver	Replaced	Self Retaining	-
15	1066	Permeable Paver	Replaced	Self Retaining	-
16a	1807	Asphalt/Concrete Paving	Replaced	Drains to DMA,SCM	DMA-15; SCM-4
16b	1486	Asphalt/Concrete Paving	Replaced	Drains to SCM	SCM-4
16c	190	Asphalt/Concrete Paving	Replaced	Drains to SCM	SCM-4
17	636	Asphalt/Concrete Paving	New	Drains to DMA	DMA-17a
17a	1426	Planting Area	Existing	Self Retaining	-
18	2139	Asphalt/Concrete Paving	Replaced	Drains to SCM	SCM-5
19	71	Planting Area	New	Self Treating	-
20	2491	Asphalt/Concrete Paving	Replaced	Drains to DMA,SCM	DMA-21; SCM-6
20a	274	Asphalt/Concrete Paving	Replaced	SCM	SCM-6
21	867	Permeable Paver	Replaced	Self Retaining	-
22	2550	Asphalt/Concrete Paving	Replaced	Drains to DMA,SCM	DMA-23; SCM-6
22a	2361	Asphalt/Concrete Paving	Replaced	Drains to DMA,SCM	SCM-6
23	902	Permeable Paver	Replaced	Self Retaining	-
24	626	Planting Area	New	Self Treating	-
25	505	Asphalt/Concrete Paving	Replaced	Drains to DMA,SCM	DMA-23; SCM-6
26	105	Planting Area	New	Self Treating	-
26a	162	Planting Area	New	Self Treating	-
27	2435	Asphalt/Concrete Paving	Replaced	Drains to SCM	SCM-9
28	1768	Permeable Paver	Replaced	Self Retaining	-
29	5622	Asphalt/Concrete Paving	Replaced	Drains to DMA,SCM	DMA-28; SCM-6
29a	386	Asphalt/Concrete Paving	Replaced	Drains to DMA,SCM	SCM-6
30	2710	Asphalt/Concrete Paving	Replaced	Drains to SCM	SCM-6
31	4862	Asphalt/Concrete Paving	Replaced	Drains to SCM	SCM-10
32	794	Planting Area	New	Self Treating	-
33	604	Asphalt/Concrete Paving	Replaced	Drains to SCM	SCM-10
34	750	Asphalt/Concrete Paving	Replaced	Drains to DMA,SCM	DMA-28; SCM-6
35	969	Asphalt/Concrete Paving	Replaced	Drains to SCM	SCM-9
35a	230	Planting Area	New	Self Treating	-
36	9290	Asphalt/Concrete Paving	Replaced	Drains to SCM	SCM-7; SCM-8
37	1160	Asphalt/Concrete Paving	Replaced	Drains to SCM	SCM -9
37a	1463	Asphalt/Concrete Paving	Replaced	Drains to SCM	SCM -9
38	4884	Synthetic Turf	New	Self Treating	-
39	10873	Synthetic Turf	New	Self Retaining	-
40	14032	Synthetic Turf	New	Self Treating	-
41	22324	Synthetic Turf	New	Self Treating	-
42	20382	Synthetic Turf	New	Self Treating	-
43	14568	Synthetic Turf	New	Self Treating	-
44	10430	Synthetic Turf	New	Self Treating	-
45	7266	Synthetic Turf	New	Self Treating	-
46	2615	Synthetic Turf	New	Self Treating	-
47	505	Synthetic Turf	New	Self Retaining	-
49	280	Asphalt/Concrete Paving	New	Drains to DMA	DMA 50
50	598	Synthetic Turf	New	Self Retaining	-
51	506	Asphalt/Concrete Paving	Replaced	Drains to DMA	DMA-43
52	508	Asphalt/Concrete Paving	Replaced	Drains to DMA	DMA-40
53	115	Asphalt/Concrete Paving	New	Drains to DMA	DMA-47
54	743	Planting Area	Replaced	Self Treating	-
55	2001	DG	New	Self Treating	-
56	1687	DG	New	Self Retaining	-
56a	7708	Planting Area	Existing	Drain to SCM	SCM-14
57	305	Asphalt/Concrete Paving	Replaced	Drains to DMA	DMA-56
58	1775	Asphalt/Concrete Paving	Replaced	Drain to SCM	EX. SCM
59	1728	Asphalt/Concrete Paving	Replaced	Drain to SCM	EX. SCM
60	2138	Asphalt/Concrete Paving	Replaced	Drains to DMA	DMA-67
61	1891	Asphalt/Concrete Paving	Replaced	Drains to SCM	SCM-12
62	960	Asphalt/Concrete Paving	Replaced	Drains to SCM	SCM-12
63	1525	Asphalt/Concrete Paving	Replaced	Drains to SCM	SCM-11
64	1207	Asphalt/Concrete Paving	Replaced	Drains to DMA	DMA-64a
64a	754	Planting Area	Replaced	Self Retaining	-
65	3095	Planting Area	Existing	Self Retaining	-
66	396	Asphalt/Concrete Paving	New	Drains to DMA	DMA-65
67	2143	Planting Area	Existing	Self Retaining	-
68	2206	Asphalt/Concrete Paving	Replaced	Drains to SCM	SCM-13
68a	668	Planting Area	Existing	Self Treating	-
69	2205	Asphalt/Concrete Paving	Replaced	Drains to SCM	SCM-12
70	4058	Asphalt/Concrete Paving	Replaced	Drain to SCM	EX. SCM
71	754	Asphalt/Concrete Paving	New	Drain to SCM	EX. SCM
72	782	Asphalt/Concrete Paving	New	Drains to DMA	DMA-73; DMA-74b
73	612	Planting Area	Replaced	Self Retaining	-
74a	118	DG	Replaced	Self Treating	-
74b	187	DG	Replaced	Self Retaining	-
75	838	Asphalt/Concrete Paving	Replaced	Drain to SCM	EX. SCM
76	813	Asphalt/Concrete Paving	Replaced	Drains to DMA	DMA-78b
77	123	DG	Replaced	Self Treating	-
78a	239	Planting Area	New	Self Treating	-
78b	538	Planting Area	New	Self Retaining	-
79	282	Asphalt/Concrete Paving	Replaced	Drains to SCM	EX. SCM
80	167	Asphalt/Concrete Paving	New	Drains to DMA	DMA-81
81	169	Planting Area	Existing	Self Retaining	-
82	6115	Asphalt/Concrete Paving	New	Drains to SCM	SCM-15
83	18559	Asphalt/Concrete Paving	Replaced	Drains to SCM	SCM-15
84	25	Planting Area	New	Self Treating	-
85	25	Planting Area	New	Self Treating	-
86	25	Planting Area	New	Self Treating	-
87	25	Planting Area	New	Self Treating	-
88	25	Planting Area	New	Self Treating	-
89	25	Planting Area	New	Self Treating	-
90	25	Planting Area	New	Self Treating	-
91	25	Planting Area	New	Self Treating	-
92	25	Planting Area	New	Self Treating	-
93	2051	Asphalt/Concrete Paving	New	Drains to SCM	SCM-15
94	2060	Planting Area	Existing	Self Treating	-
95	1116	Asphalt/Concrete Paving	Replaced	Drains to SCM	SCM-15
96	802	Planting Area	New	Self Treating	-
97	456	DG	New	Self Treating	-
98	7540	Asphalt/Concrete Paving	New	Drain to DMA	DMA-100
99	7164	Asphalt/Concrete Paving	New	Drain to DMA	DMA-100
100	151634	Natural Grass	Replaced	Self Retaining	-
101	618	Asphalt/Concrete Paving	Replaced	Drain to DMA	DMA-103
102	277	Asphalt/Concrete Paving	Replaced	Drain to DMA	DMA-103a
103	839	Planting Area	Existing	Self Retaining	-
103a	1426	Planting Area	Existing	Self Retaining	-
104	874	Asphalt/Concrete Paving	Replaced	Drain to SCM	EX.SCM
105	1492	Asphalt/Concrete Paving	New	Drain to DMA	EX.SCM
106	413	DG	New	Self Treating	-
107	1027	Asphalt/Concrete Paving	New	Drain to DMA	DMA-108
108	14968	Natural Grass/Mulch	Existing	Self Retaining	-
109	662	DG	New	Self Treating	-
110	3153	Planting Area	Replaced	Self Treating	-
111	496	Asphalt/Concrete Paving	Replaced	Drain to DMA	EX.SCM
111a	2732	Planting Area	Existing	Drain to SCM	SCM-16
112	710	DG	New	Self Treating	-
113	803	Permeable Paver	Replaced	Self Treating	-
114	549	Asphalt/Concrete Paving	Replaced	Drain to DMA	DMA-116
114a	696	Asphalt/Concrete Paving	Replaced	Drain to DMA	DMA-118
114b	1509	Asphalt/Concrete Paving	New	Drain to SCM	EX.SCM
114c	1520	Asphalt/Concrete Paving	New	Drain to SCM	EX.SCM
114d	314	Permeable Paver	Replaced	Self Treating	-
115	4283	DG	New	Self Treating	-
116	1078	PIP Rubber Paving	New	Self Retaining	-
117	662	Planting Area	New	Self Treating	-
118	8047	PIP Rubber Paving	New	Self Retaining	-
119	999	Asphalt/Concrete Paving	New	Drain to DMA	DMA-120
119a	384	Asphalt/Concrete Paving	New	Drain to SCM	EX.SCM
120	2091	PIP Rubber Paving	New	Self Retaining	-
121	587	Asphalt/Concrete Paving	New	Drain to DMA	DMA-122
122	4011	PIP Rubber Paving	New	Self Retaining	-
123	252	Asphalt/Concrete Paving	New	Drain to DMA	DMA-122
123a	230	Asphalt/Concrete Paving	New	Drain to DMA	DMA-124
124	1642	DG	New	Self Retaining	-
125	1609	Asphalt/Concrete Paving	New	Drain to SCM	EX.SCM
126	2635	Asphalt/Concrete Paving	New	Drain to DMA	DMA-118
127	444	Asphalt/Concrete Paving	New	Drain to DMA	DMA-128
128	333	Planting Area	Existing	Self Retaining	-
129	2292	DG	New	Self Treating	-

TABLE B - SELF RETAINING AREA SIZING SUMMARY

Self Retaining DMA	Self Retaining DMA Area (SQFT)	Tributary DMA's #	Total Tributary DMA Area (SQFT)	Tributary / Self Retaining Area Ratio
14	574	12	990	1.72
15	1066	16a	1807	1.70
21	867	20	2491	2.87
23	902	22	2550	2.83
28	1768	29, 34	6372	3.60
39	10873	52, 53	623	0.06
50	598	49	280	0.47
47	505	53	115	0.23
56	1687	57	305	0.18
64a	754	64	1207	1.60
65	3095	66	396	0.13
67	2143	60	2138	1.00
73, 74b	799	72	782	0.98
78b	538	76	813	1.51
81	169	80	167	0.99
100	151634	98, 99	14704	0.10
103	839	101	618	0.74
103a	1426	102	1151	0.81
108	14968	107	1027	0.07
112	710	111	496	0.70
116	1078	114	549	0.51
118	8047	114a, 126	3331	0.41
120	1207	119	999	0.83
122	4011	121, 123	839	0.21
124	1642	123a	230	0.14
128	333	127	444	1.33

NOTE: IN ORDER TO COMPLY WITH THE STORMWATER REGULATIONS THE MAXIMUM ACCEPTABLE TRIBUTARY: SELF RETAINING AREA RATIO IS 2.0

TABLE B - STORMWATER CONTROL MEASURE SIZING SUMMARY

SCM #	SCM Area (SQFT)	Tributary DMAs #	Total Tributary DMA Area (SQFT)	Required SCM Area (SQFT) - 95th Percentile 24 hr Rainfall	Required SCM Area (SQFT) - 85th Percentile 24 hr Rainfall
1	187	1, 2	2701	185	114
2	418	5	1954	134	83
3	206	8, 10	4063	279	172
4	929	16a, 16b, 16c, 12a, 11	7252	498	306
5	111	18	2139	147	90
6	726	20, 20a, 22, 22a, 25	8181	561	345
7, 8	452	36	9290	637	392
9	283	27, 35	3404	234	144
10	389	31, 33	5466	375	231
11	121	63	1525	105	64
12	347	61, 62, 69	5056	347	213
13	151	68	2206	151	93
14	274	56a	7708	195	120
15	2018	82, 83, 93, 95	27841	1910	1176
16	480	111a	2732	187	115



REGISTERED LANDSCAPE ARCHITECT
DEREK MCKEE
No. 4148
Signature
EXPIRATION DATE: DEC. 2022
STATE OF CALIFORNIA

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
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Santa Clara, CA 95050
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fax: 408.985.7260
www.VerdeDesignInc.com

CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

STORM WATER QUALITY CONTROL PLAN

Approved by: MARIA ESTHER CARRANZA RODRIGUEZ Date:

Designed by DL | Drawn by DL | Checked by TY/DM | Job No. 2106300 | Scale 1"=40'-0" | SHEET L7.1 | X of 106

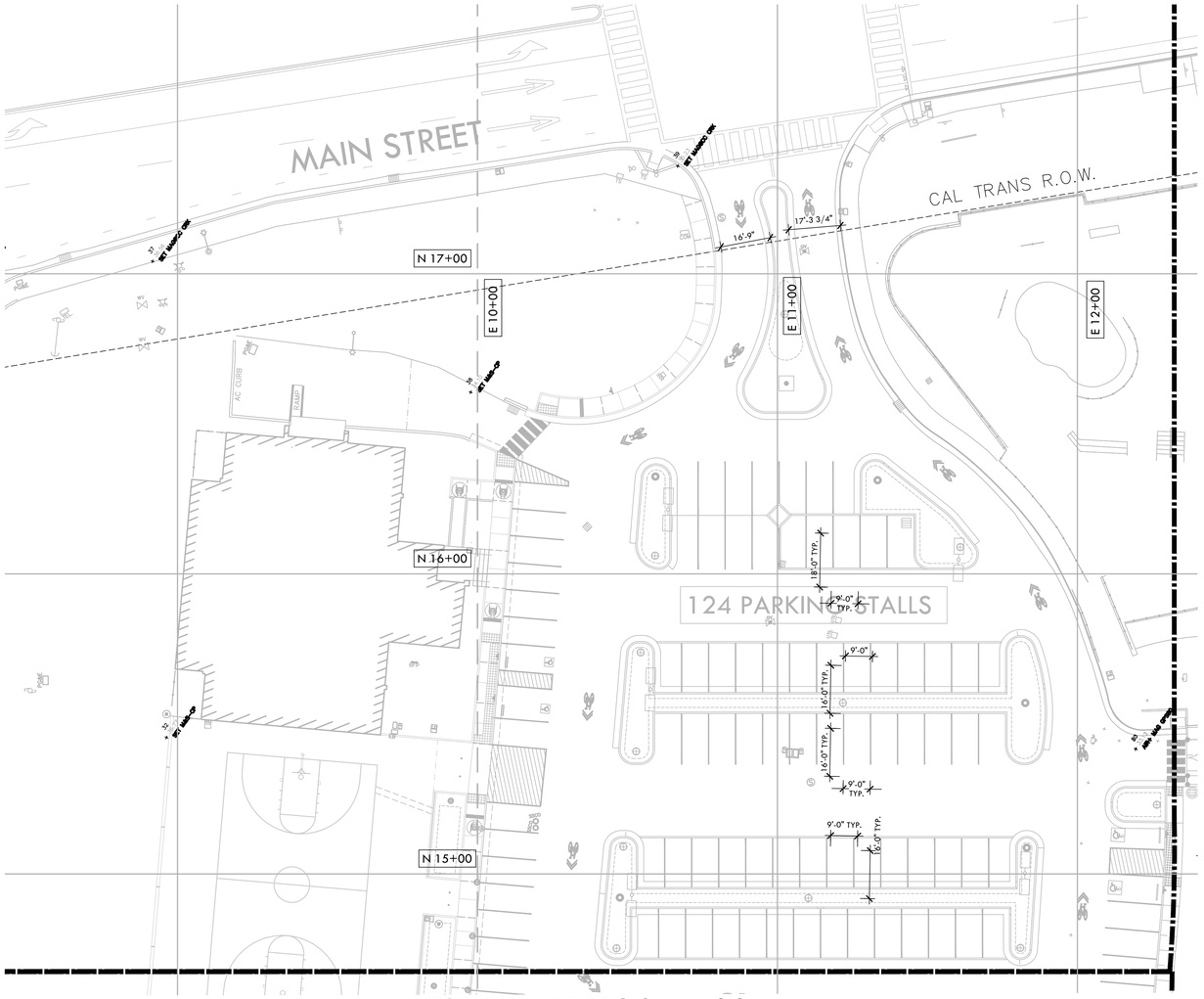
WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

VERDE PROJECT NO. 2106300

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4

DRAWING NAME: Y:\Projects-SC\2021\2106300 - Watsonville Ramsay Park Improvements\cad_SWCP.dwg
PLOT DATE: 07-01-22 PLOTTED BY: station78

ALL IDEAS, DESIGN, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR



LAYOUT NOTES

1. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ELEMENTS INCLUDING UTILITY LOCATIONS AND REQUIRED SLEEVING PRIOR TO INSTALLATION. VERIFY CRITICAL DIMENSIONS, REFERENCE POINT LOCATIONS AND CONSTRUCTION CONDITIONS PRIOR TO INITIATING CONSTRUCTION. TEMPORARY BENCHMARKS OR REFERENCE POINTS SHALL BE SET BY THE CONTRACTOR AS NECESSARY. NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY SHOULD DISCREPANCY ARISE AND REDIRECT WORK TO AVOID DELAYS.
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3. LAYOUT IS BASED ON THE POINT(S) OF BEGINNING (P.O.B.) AND BASELINE(S) OR GRID SYSTEM AS SHOWN. REFER TO SHEET L5.2 FOR POINT OF BEGINNING INFORMATION. DIMENSIONS SHOWN ARE ROUNDED TO THE NEAREST INCH.
4. ALL LAYOUT AND GRADES SHALL BE COMPLETED BY A LICENSED SURVEYOR.

LAYOUT LEGEND

SYM	DESCRIPTION
	POINT OF BEGINNING SYMBOL, SEE SHEET L5.2
	CONTROL POINT, SEE SHEET L5.2
R10'	RADIUS POINT / CENTER MARK
90°	PROPOSED ANGLE BETWEEN ELEMENTS
ALIGN	ALIGN EDGES OF ELEMENTS
	BASELINE & GRID
	CONTROL LINE
	CENTER LINES
N 12+21.95 E 12+97.08	NORTHING/EASTING LAYOUT COORDINATE CALLOUT
(COD)	CENTER OF DRAIN
(COP)	CENTER OF POST
(POB)	POINT OF BEGINNING FOR GRID LAYOUT
(RAD)	RADIUS POINT
(TAN)	TANGENT POINT
(MID)	MIDDLE POINT
(COC)	CENTER OF CONTOUR POINT
(MPC)	MIDDLE POINT OF CONTOUR

NORTH

0 10' 20' 40' 60'

REGISTERED LANDSCAPE ARCHITECT — DEREK MCKEE — No. 4148 — Signature — EXPIRATION DATE: DEC. 2022 — STATE OF CALIFORNIA

VERDE DESIGN
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CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

LAYOUT PLANS

Approved by MARIA ESTHER CARRANZA RODRIGUEZ Date

Designed by VERDE
Drawn by TY/DM
Checked by

Job No. 2106300
Scale 1"=20'-0"

SHEET L8.1
X of 106

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

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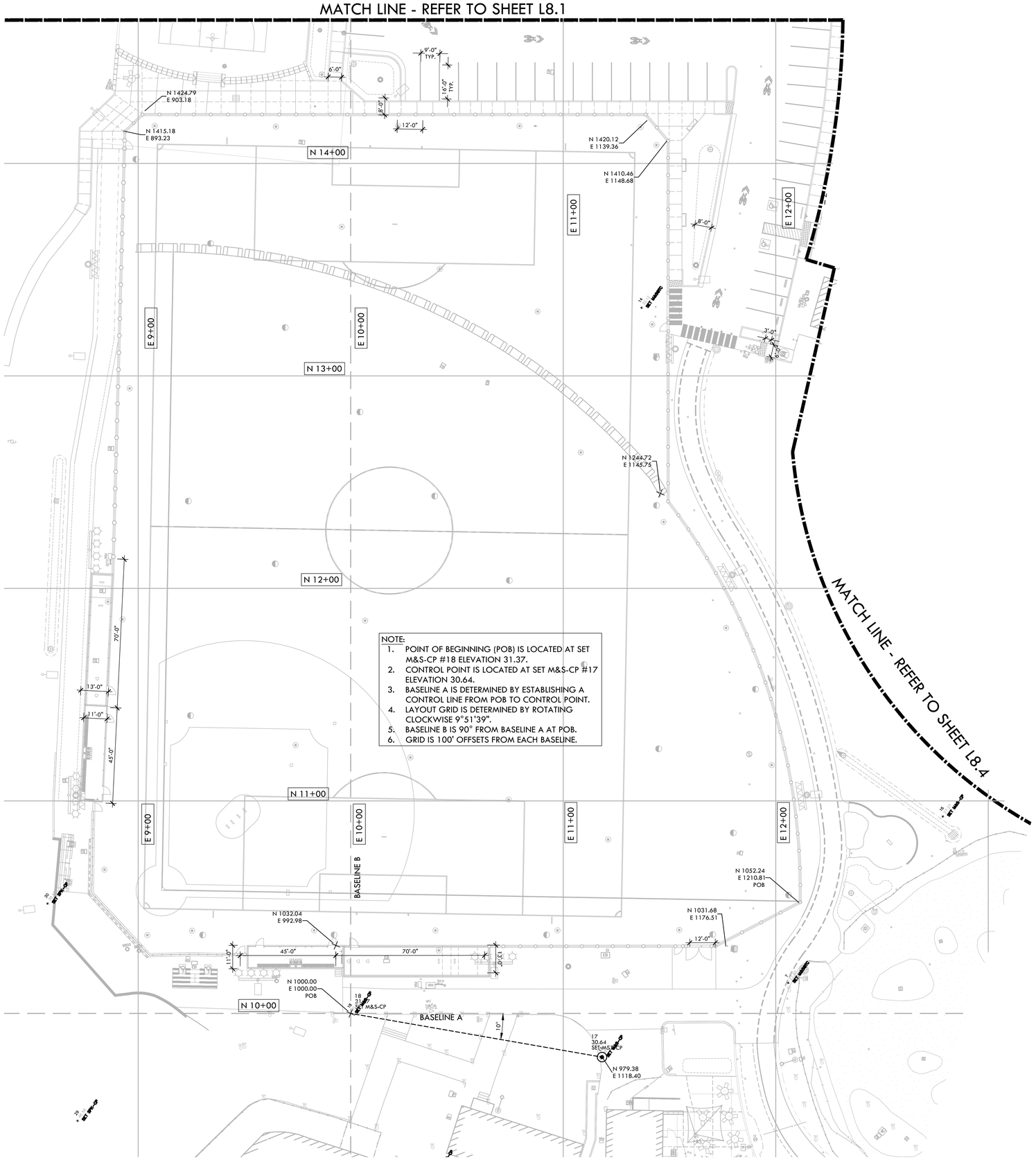
DRAWING NAME: X:\Projects-SC\2021\2106300 - Watsonville Ramsay Park Improvements\cad_LAY-C3D.dwg
PLOT DATE: 07-01-22 PLOTTED BY: station78

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4



NOTE:
1. POINT OF BEGINNING (POB) IS LOCATED AT SET M&S-CP #18 ELEVATION 31.37.
2. CONTROL POINT IS LOCATED AT SET M&S-CP #17 ELEVATION 30.64.
3. BASELINE A IS DETERMINED BY ESTABLISHING A CONTROL LINE FROM POB TO CONTROL POINT.
4. LAYOUT GRID IS DETERMINED BY ROTATING CLOCKWISE 9°51'39".
5. BASELINE B IS 90° FROM BASELINE A AT POB.
6. GRID IS 100' OFFSETS FROM EACH BASELINE.

LAYOUT NOTES

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LAYOUT LEGEND

SYM	DESCRIPTION
	POINT OF BEGINNING SYMBOL, SEE SHEET L5.2
	CONTROL POINT, SEE SHEET L5.2
R10'	RADIUS POINT / CENTER MARK
90°	PROPOSED ANGLE BETWEEN ELEMENTS
ALIGN	ALIGN EDGES OF ELEMENTS
	BASELINE & GRID
	CONTROL LINE
	CENTER LINES
N 12+21.95 E 12+97.08	NORTHING/EASTING LAYOUT COORDINATE CALLOUT
(COD)	CENTER OF DRAIN
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(TAN)	TANGENT POINT
(MID)	MIDDLE POINT
(COC)	CENTER OF CONTOUR POINT
(MPC)	MIDDLE POINT OF CONTOUR

NORTH
0 10' 20' 40' 60'

REGISTERED LANDSCAPE ARCHITECT
DEREK MCKEE
No. 4148
Signature
EXPIRATION DATE: DEC. 2022
STATE OF CALIFORNIA

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CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

LAYOUT PLANS

Approved by: MARIA ESTHER CARRANZA RODRIGUEZ Date:

Designed by: Drawn by: VERDE Checked by: TY/DM

Job No. 2106300 Scale 1"=20'-0"

SHEET L8.2 X of 106

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

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DRAWING NAME: Y:\Projects-SC\2021\2106300 - Watsonville Ramsay Park Improvements\cad\LAY-C30.dwg
PLOT DATE: 07-01-22 PLOTTED BY: station78

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4

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MATCH LINE - REFER TO SHEET L8.1

MAIN STREET

CAL TRANS R.O.W.

N 1803.01
E 1483.44

N 1735.38
E 1271.44

N 1853.39
E 1809.15

N 1810.08
E 1795.63

N 1793.28
E 1759.29

SET MAG

16'-0"

10'-0"

5'-0"

6'-0"

20'-4 1/2"

23'-10 3/4"

12'-0"

3'-0"

9'-0"

37'-0" TYP.

24'-0"

12'-10"

13'-2 1/4"

8'-2 1/4"

31'-7 3/4"

N 17+00

N 16+00

N 15+00

N 14+00

E 13+00

E 14+00

E 15+00

E 16+00

E 17+00

E 18+00

8'-0"

12'-0"

21'-0"

30'-0"

N 1389.91
E 1240.52

N 1389.91
E 1262.52

N 1382.16
E 1262.52

N 1376.38
E 1269.07

N 1392.53
E 1244.09

22'-0"

8'-0"

45'-5 1/4"

MATCH LINE - REFER TO SHEET L8.4

LAYOUT NOTES

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LAYOUT LEGEND

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	POINT OF BEGINNING SYMBOL, SEE SHEET L5.2
	CONTROL POINT, SEE SHEET L5.2
R10'	RADIUS POINT / CENTER MARK
90°	PROPOSED ANGLE BETWEEN ELEMENTS
ALIGN	ALIGN EDGES OF ELEMENTS
	BASELINE & GRID
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	CENTER LINES
N 12+21.95 E 12+97.08	NORTHING/EASTING LAYOUT COORDINATE CALLOUT
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NORTH

0 10' 20' 40' 60'

REGISTERED LANDSCAPE ARCHITECT
DEREK MCKEE
No. 4148
Signature
EXPIRATION DATE: DEC. 2022
STATE OF CALIFORNIA

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CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

LAYOUT PLANS

Approved by MARIA ESTHER CARRANZA RODRIGUEZ Date

Designed by
Drawn by VERDE
Checked by TY/DM

Job No. 2106300
Scale 1"=20'-0"

SHEET L8.3
X of 106

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

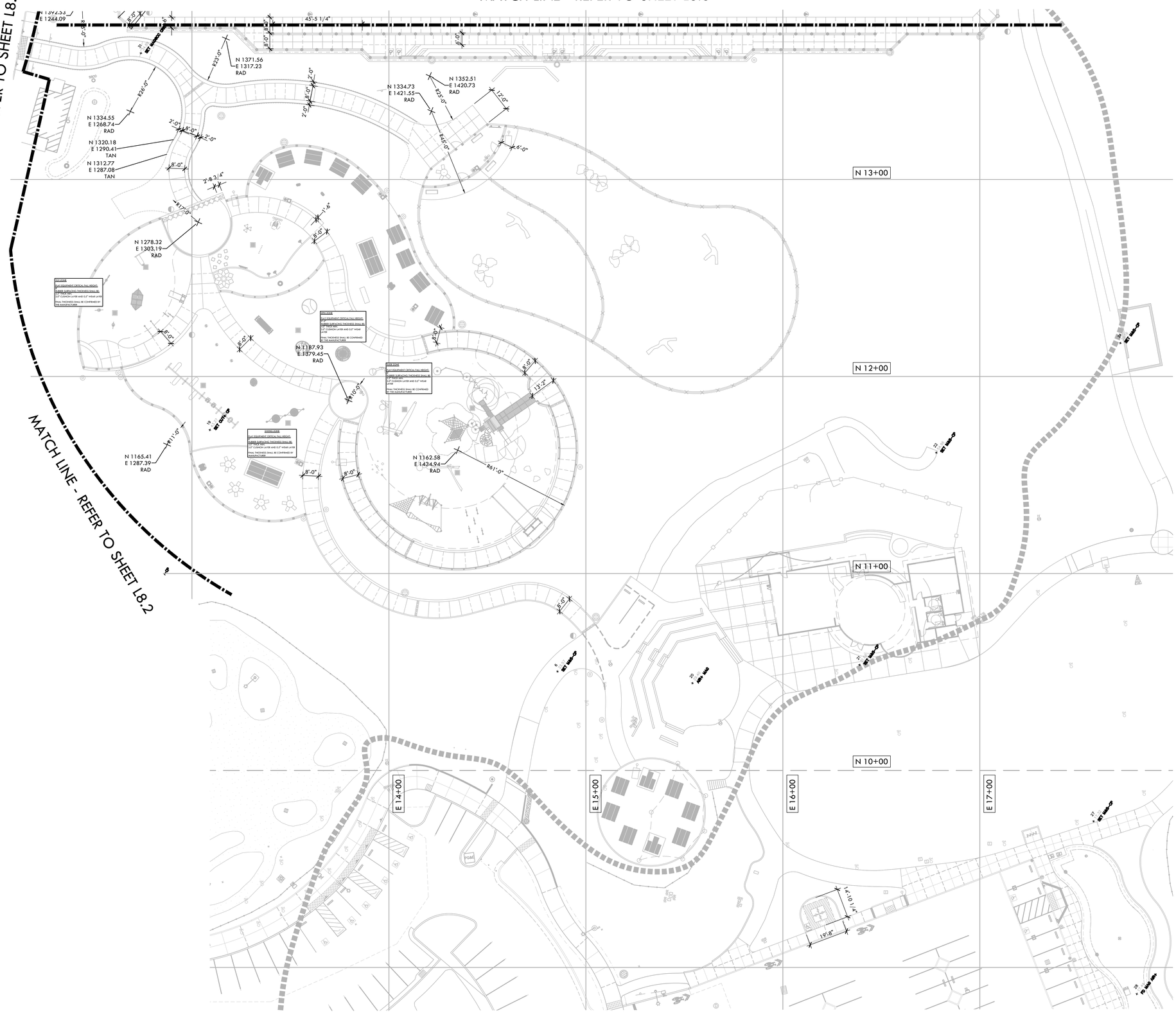
DRAWING NAME: X:\Projects-SC\2021\2106300 - Watsonville Ramsay Park Improvements\cad_LAY-C30.dwg
PLOT DATE: 07-01-22 PLOTTED BY: station78

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES
0 1 2 3 4

MATCH LINE - REFER TO SHEET L8.3

MATCH LINE - REFER TO SHEET L8.1

MATCH LINE - REFER TO SHEET L8.2



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NORTH

0 10' 20' 40' 60'

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4

REGISTERED LANDSCAPE ARCHITECT — DEREK MCREE — No. 4148 — Signature — EXPIRATION DATE: DEC. 2022 — STATE OF CALIFORNIA

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RAMSAY PARK RENAISSANCE PROJECT

LAYOUT PLANS

Approved by MARIA ESTHER CARRANZA RODRIGUEZ Date

Designed by VERDE
Drawn by TY/DM
Checked by
Job No. 2106300
Scale 1"=20'-0"
SHEET L8.4
X of 106

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

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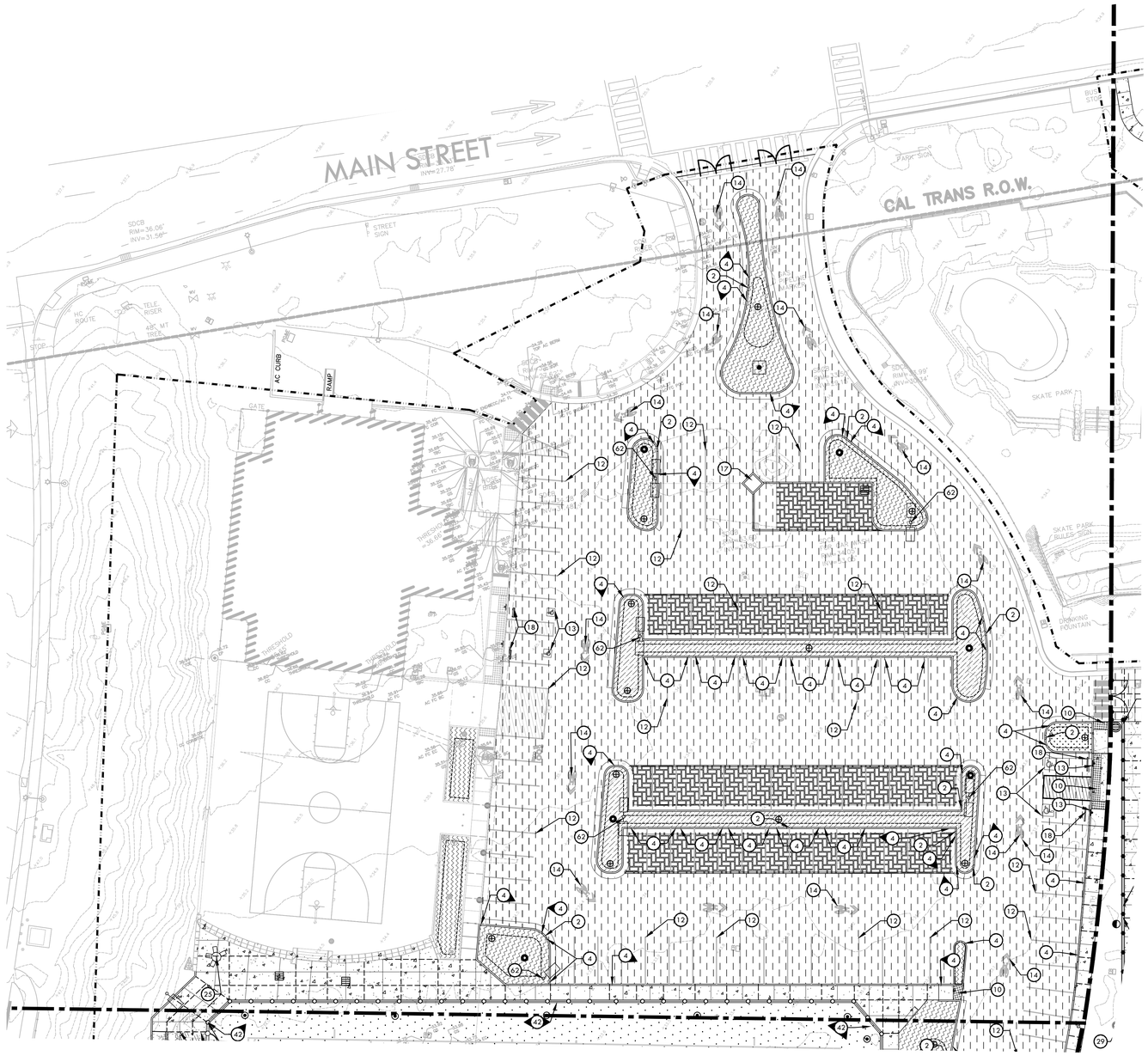
DRAWING NAME: Y:\Projects-SC\2021\2106300 - Watsonville Ramsay Park Improvements\cad_LAY-C30.dwg
PLOT DATE: 07-01-22 PLOTTED BY: station78


MAIN STREET
CAL TRANS R.O.W.
SKATE PARK
SKATE PARK / RULES SIGN
DRINKING FOUNTAIN
PARK SIGN
BUS STOP
AC CURB
RAMP
GATE
STOP
HC ROUTE
TELE RISER
48" MT TREE
SDCB RIM=36.06' INV=31.58'
SDMH RIM=35.99' INV=27.78'
SDMH RIM=36.59' INV=31.54'
SDMH RIM=36.59' INV=31.54'
SDCB RIM=36.59' INV=31.54'
SDCB RIM=36.59' INV=31.54'
SDCB

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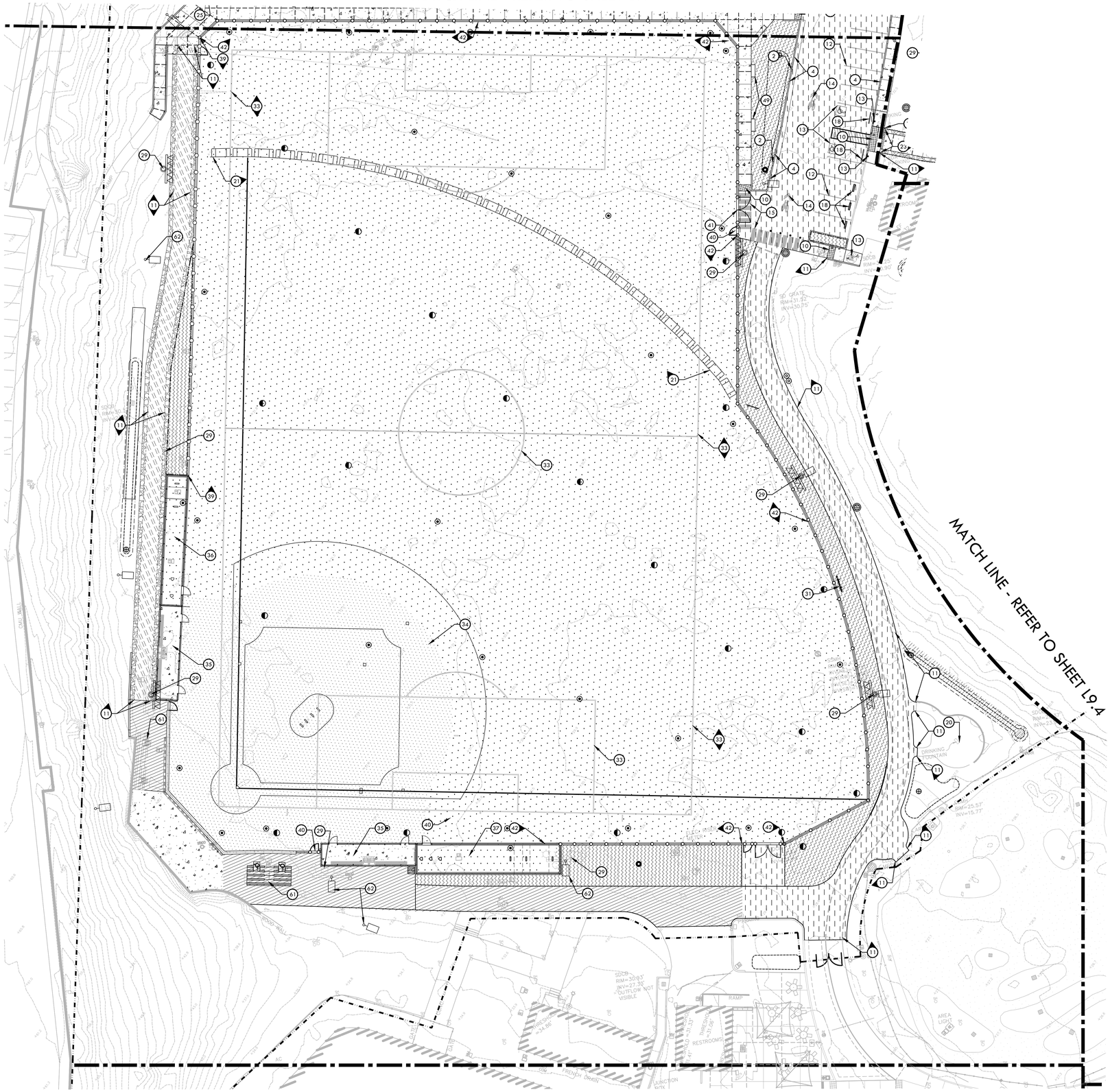
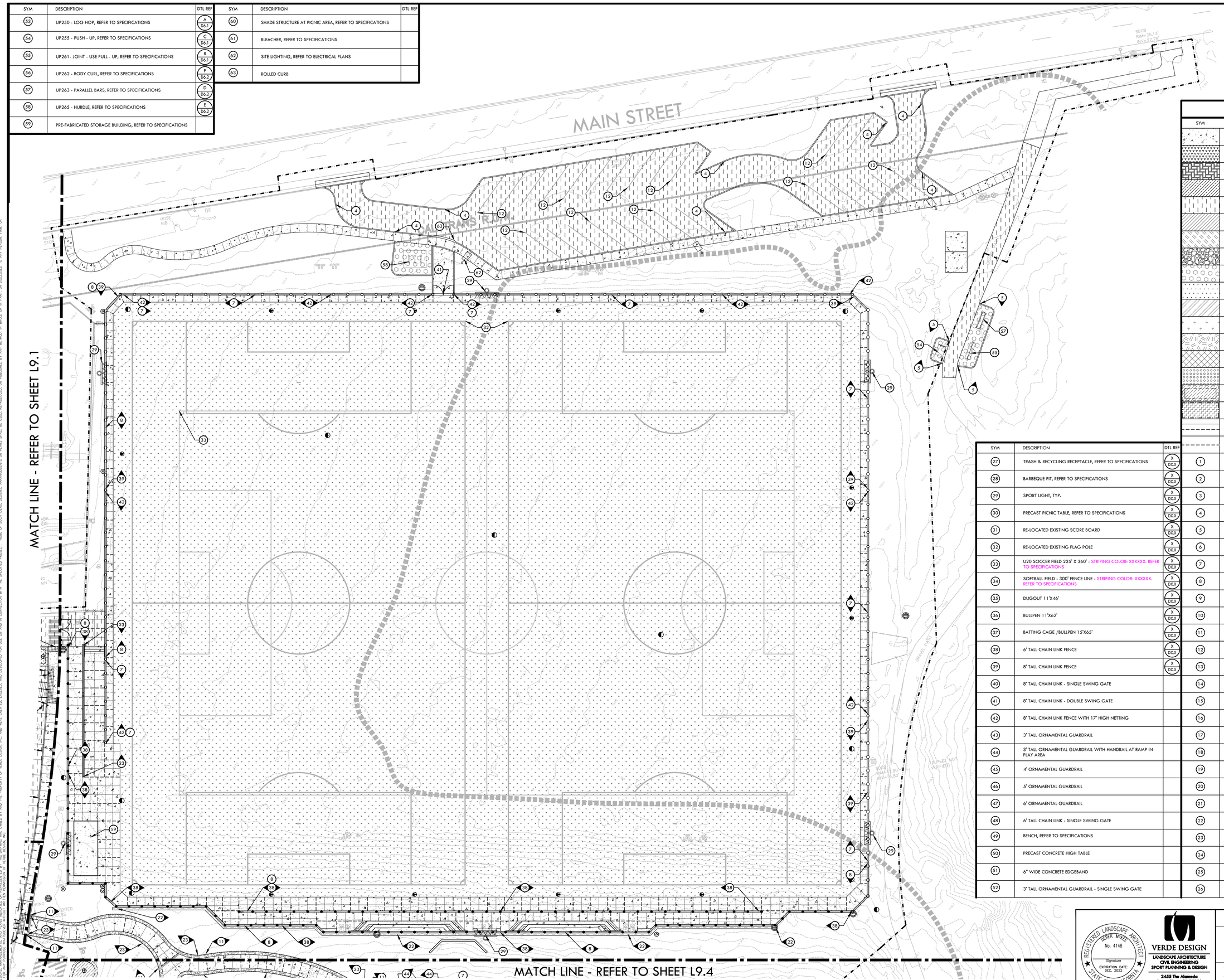

MATCH LINE - REFER TO SHEET L9.1
MATCH LINE - REFER TO SHEET L9.4
CMU WALL
RAMP
RESTROOMS
DRINKING FOUNTAIN
AREA LIGHT
BENCH
BIKE RACK
SDCB RIM=30.93' INV=27.35' *OUTFLOW NOT VISIBLE
SDCB RIM=25.52' INV=15.77'
SDCB RIM=24.88'
SDCB RIM=25.52' INV=15.77'
SDCB RIM=25.52' INV=15.77'
SDCB RIM=25.52' INV=15.77

SYM	DESCRIPTION	DTL REF
53	UP250 - LOG HOP, REFER TO SPECIFICATIONS	A D6.1
54	UP255 - PUSH - UP, REFER TO SPECIFICATIONS	C D6.1
55	UP261- JOINT - USE PULL - UP, REFER TO SPECIFICATIONS	B D6.1
56	UP262 - BODY CURL, REFER TO SPECIFICATIONS	F D6.2
57	UP263 - PARALLEL BARS, REFER TO SPECIFICATIONS	D D6.2
58	UP265 - HURDLE, REFER TO SPECIFICATIONS	E D6.2
59	PRE-FABRICATED STORAGE BUILDING, REFER TO SPECIFICATIONS	

SYM	DESCRIPTION	DTL REF
60	SHADE STRUCTURE AT PICNIC AREA, REFER TO SPECIFICATIONS	
61	BLEACHER, REFER TO SPECIFICATIONS	
62	SITE LIGHTING, REFER TO ELECTRICAL PLANS	
63	ROLLED CURB	



MATERIAL LEGEND

SYM	DESCRIPTION	DTL REF
	CONCRETE PAVING - PEDESTRIAN, REFER TO SPECIFICATIONS	A D3.1
	CONCRETE PAVING - VEHICULAR, REFER TO SPECIFICATIONS	A D3.1
	PERMEABLE PAVERS, REFER TO SPECIFICATIONS	C D3.1
	ASPHALT PAVING - PEDESTRIAN, REFER TO SPECIFICATIONS	E D3.1
	ASPHALT PAVING - VEHICULAR, REFER TO SPECIFICATIONS	E D3.1
	SLURRY COAT EXISTING ASPHALT PAVING, REFER TO SPECIFICATIONS	
	DECOMPOSED GRANITE, REFER TO SPECIFICATIONS	
	AGGREGATE BASE	
	RESILIENT SURFACING OVER AGGREGATE BASE	XX DX.X
	SYNTHETIC TURF AT SPORTS FIELD	XX DX.X
	SYNTHETIC TURF ON SLOPING CONCRETE SLAB	XX DX.X
	NATURAL TURF AT SOCCER FIELD	XX DX.X
	MULCH, REFER TO SPECIFICATIONS	XX DX.X
	ENGINEERED WOOD FIBER, REFER TO SPECIFICATIONS	XX DX.X
	TRUNCATED DOMES - REFER TO SPECIFICATIONS	XX DX.X
	RAIN GARDEN / SELF-RETAINING AREA, REFER TO GRADING AND PLANTING PLAN. BASE BID - INSTALL BIO FILTRATION SOIL IN LIEU OF NATIVE SOIL FOR RAIN GARDENS AS PER PLANS.	
	PLANTING AREA - "NOT IN CONTRACT" / RIPARIAN PLANTING AREA - "NOT IN CONTRACT"	
	SCORE JOINT / EXPANSION JOINT	XX DX.X
	100 YEAR FLOOD LINE	XX DX.X

SYM	DESCRIPTION	DTL REF
27	TRASH & RECYCLING RECEPTACLE, REFER TO SPECIFICATIONS	X DX.X
28	BARBEQUE PIT, REFER TO SPECIFICATIONS	X DX.X
29	SPORT LIGHT, TYP.	X DX.X
30	PRECAST PICNIC TABLE, REFER TO SPECIFICATIONS	X DX.X
31	RE-LOCATED EXISTING SCORE BOARD	X DX.X
32	RE-LOCATED EXISTING FLAG POLE	X DX.X
33	U20 SOCCER FIELD 225' X 360' - STRIPING COLOR: XXXXXX. REFER TO SPECIFICATIONS	X DX.X
34	SOFTBALL FIELD - 300' FENCE LINE - STRIPING COLOR: XXXXXX. REFER TO SPECIFICATIONS	X DX.X
35	DUGOUT 11'X46'	X DX.X
36	BULLPEN 11'X62'	X DX.X
37	BATTING CAGE /BULLPEN 15'X65'	X DX.X
38	6' TALL CHAIN LINK FENCE	X DX.X
39	8' TALL CHAIN LINK FENCE	X DX.X
40	8' TALL CHAIN LINK - SINGLE SWING GATE	
41	8' TALL CHAIN LINK - DOUBLE SWING GATE	
42	8' TALL CHAIN LINK FENCE WITH 17" HIGH NETTING	
43	3' TALL ORNAMENTAL GUARDRAIL	
44	3' TALL ORNAMENTAL GUARDRAIL WITH HANDRAIL AT RAMP IN PLAY AREA	
45	4' ORNAMENTAL GUARDRAIL	
46	5' ORNAMENTAL GUARDRAIL	
47	6' ORNAMENTAL GUARDRAIL	
48	6' TALL CHAIN LINK - SINGLE SWING GATE	
49	BENCH, REFER TO SPECIFICATIONS	
50	PRECAST CONCRETE HIGH TABLE	
51	6" WIDE CONCRETE EDGEBAND	
52	3' TALL ORNAMENTAL GUARDRAIL - SINGLE SWING GATE	

	DESCRIPTION	DTL REF
1	SYNTHETIC TURF CONNECTION	XX DX.X
2	SCUPPER AT CONCRETE CURB	XX DX.X
3	CONCRETE CURB - TYPE A1 CURBS	XX DX.X
4	6" WIDE CONCRETE CURB	XX DX.X
5	6" WIDE CONCRETE TALL CURB	XX DX.X
6	12" WIDE CONCRETE TALL CURB	XX DX.X
7	12" WIDE CONCRETE EDGEBAND	XX DX.X
8	12" WIDE RETAINING WALL	XX DX.X
9	18" WIDE SEATING WALL	XX DX.X
10	ACCESSIBLE RAMP / CURB RAMP	XX DX.X
11	PERMALOC METAL EDGING - REFER TO SPECIFICATIONS	XX DX.X
12	PARKING LOT STRIPING, REFER TO SPECIFICATIONS	XX DX.X
13	ADA PARKING STALL STRIPING AND SIGNAGE	XX DX.X
14	SHARROW BIKE MARKING, REFER TO SPECIFICATIONS	XX DX.X
15	CROSSWALK STRIPING	XX DX.X
16	ASPHALT STRIPING AT TRAIL, REFER TO SPECIFICATIONS	XX DX.X
17	TREE WELL IN PARKING LOT	XX DX.X
18	REINSTALLATION OF EXISTING WHEEL STOP	XX DX.X
19	REMOVABLE BOLLARD, REFER TO SPECIFICATIONS	XX DX.X
20	DRINKING FOUNTAIN, REFER TO SPECIFICATIONS	XX DX.X
21	PORTABLE OUTFIELD FENCE, REFER TO SPCIFICATIONS	XX DX.X
22	CONCRETE SWALE	X DX.X
23	HANDRAIL AT RAMP/ SLOPED PATH	X DX.X
24	HANDRAIL AT STAIRS	X DX.X
25	4 SEATER ADA PICNIC TABLE, REFER TO SPECIFICATIONS	R D2.2
26	5 SEATER PICNIC TABLE, REFER TO SPECIFICATIONS	Q D2.2

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REGISTERED LANDSCAPE ARCHITECT — DEREK MCREE — No. 4148 — Signature — EXPIRATION DATE: DEC. 2022 — STATE OF CALIFORNIA

VERDE DESIGN
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CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

MATERIAL AND DETAIL REFERENCE PLAN

Approved by _____ Date _____
MARIA ESTHER CARRANZA RODRIGUEZ

Designed by _____ Job No. 2106300
Drawn by VERDE
Checked by TY/DM Scale 1"=20'-0"

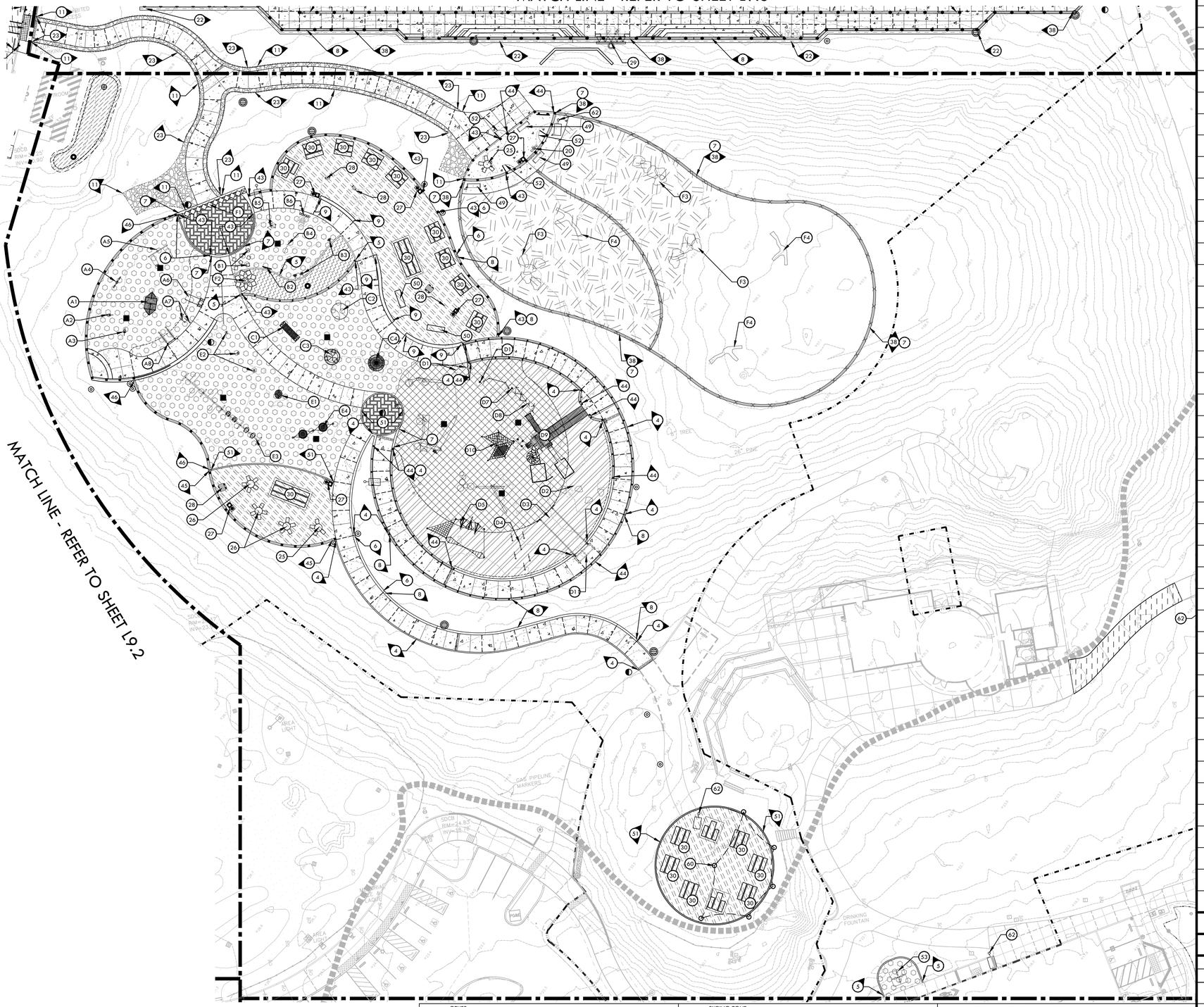
SHEET L9.3
X of 106

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

DRAWING NAME: Y:\Projects-SC\2021\2106300 - Watsonville Ramsay Park Improvements\cad_MAT.dwg
PLOT DATE: 07-01-22 PLOTTED BY: station78

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4



SYM	DESCRIPTION	DTL REF
21	PORTABLE OUTFIELD FENCE, REFER TO SPCIFICATIONS	XX DX.X
22	CONCRETE SWALE	X DX.X
23	HANDRAIL AT RAMP/ SLOPED PATH	X DX.X
24	HANDRAIL AT STAIRS	X DX.X
25	4 SEATER ADA PICNIC TABLE, REFER TO SPECIFICATIONS	R D2.5
26	5 SEATER PICNIC TABLE, REFER TO SPECIFICATIONS	Q D2.5
27	TRASH & RECYCLING RECEPTACLE, REFER TO SPECIFICATIONS	X DX.X
28	BARBEQUE PIT, REFER TO SPECIFICATIONS	X DX.X
29	SPORT LIGHT, TYP.	X DX.X
30	PRECAST PICNIC TABLE, REFER TO SPECIFICATIONS	X DX.X
31	RE-LOCATED EXISTING SCORE BOARD	X DX.X
32	RE-LOCATED EXISTING FLAG POLE	X DX.X
33	U20 SOCCER FIELD 225' X 360' - STRIPING COLOR: XXXXXX. REFER TO SPECIFICATIONS	X DX.X
34	SOFTBALL FIELD - 300' FENCE LINE - STRIPING COLOR: XXXXXX. REFER TO SPECIFICATIONS	X DX.X
35	DUGOUT 11'X46'	X DX.X
36	BULLPEN 11'X62'	X DX.X
37	BATTING CAGE /BULLPEN 15'X65'	X DX.X
38	6' TALL CHAIN LINK FENCE	X DX.X
39	8' TALL CHAIN LINK FENCE	X DX.X
40	8' TALL CHAIN LINK - SINGLE SWING GATE	
41	8' TALL CHAIN LINK - DOUBLE SWING GATE	
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50	PRECAST CONCRETE HIGH TABLE	
51	6" WIDE CONCRETE EDGEBAND	
52	3' TALL ORNAMENTAL GUARDRAIL - SINGLE SWING GATE	
53	UP250 - LOG HOP, REFER TO SPECIFICATIONS	A D6.1
54	UP255 - PUSH - UP, REFER TO SPECIFICATIONS	C D6.1
55	UP261- JOINT - USE PULL - UP, REFER TO SPECIFICATIONS	B D6.1
56	UP262 - BODY CURL, REFER TO SPECIFICATIONS	F D6.2
57	UP263 - PARALLEL BARS, REFER TO SPECIFICATIONS	D D6.2
58	UP265 - HURDLE, REFER TO SPECIFICATIONS	E D6.2
59	PRE-FABRICATED STORAGE BUILDING, REFER TO SPECIFICATIONS	
60	SHADE STRUCTURE AT PICNIC AREA, REFER TO SPECIFICATIONS	
61	BLEACHER, REFER TO SPECIFICATIONS	
62	SITE LIGHTING, REFER TO ELECTRICAL PLANS	
63	ROLLED CURB	

MATERIAL NOTES

1. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ELEMENTS INCLUDING UTILITY LOCATIONS AND REQUIRED SLEEVING PRIOR TO INSTALLATION. VERIFY CRITICAL DIMENSIONS, REFERENCE POINT LOCATIONS AND CONSTRUCTION CONDITIONS PRIOR TO INITIATING CONSTRUCTION. TEMPORARY BENCHMARKS OR REFERENCE POINTS SHALL BE SET BY THE CONTRACTOR AS NECESSARY. NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY SHOULD DISCREPANCY ARISE AND REDIRECT WORK TO AVOID DELAYS.
2. THE INTERFACE OF ALL PROPOSED IMPROVEMENTS TO EXISTING SITE SHALL CONFORM AND BE SMOOTH AND UNIFORM.
3. ALL REINFORCING AND FORMS SHALL BE SECURED IN PLACE AND ACCEPTED BY OWNER'S REPRESENTATIVE PRIOR TO PLACING ANY CONCRETE.
4. CONCRETE FINISHES SHALL BE AS NOTED. CONTRACTOR SHALL PROVIDE 4'X4' SAMPLES OF ALL SPECIFIED FINISHES OF CONCRETE USING THE SAME MATERIALS THAT WILL BE USED IN THE ACTUAL CONSTRUCTION FOR EACH TYPE SPECIFIED. SAMPLES SHALL BE PREPARED WELL ENOUGH IN ADVANCE OF SCHEDULED CONCRETE POUR TO ALLOW FOR REVIEW AND POSSIBLE RE-POURING OF UNACCEPTABLE SAMPLES. UNACCEPTABLE SAMPLES SHALL BE RE-PREPARED UNTIL ACCEPTED BY THE OWNER'S REPRESENTATIVE. ACCEPTED SAMPLES SHALL BE PROTECTED AND REMAIN ON SITE FOR REFERENCE UNTIL FINAL PROJECT ACCEPTANCE.
5. CONTRACTOR SHALL COORDINATE WITH THE OWNER, THE ADJUSTMENT OF THEIR TEMPORARY FENCING, LAYDOWN AREA, AND ALL OTHER SITE CONSTRUCTION OBSTRUCTIONS, AS NECESSARY TO MAINTAIN CLEAR VEHICULAR AND PEDESTRIAN ACCESS AS REQUIRED BY THE OWNER FOR USE OF ADJACENT PARK AREAS. AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL WORK WITH THE OWNER TO DETERMINE THE LOCATION OF ADJUSTED FENCING AND THE DURATION OF THE ACCESS NEEDS.
6. ALL WAY FINDING SIGNS, INTERPRETIVE SIGNS AND PROJECT SIGNS SHALL BE PROVIDED AND INSTALLED BY OWNER.
7. CONTRACTOR IS RESPONSIBLE FOR INSTALLING THE RAIN GARDENS PER PLANS, INCLUDING GRADING AND DRAINAGE.

MATERIAL LEGEND

SYM	DESCRIPTION	DTL REF
	CONCRETE PAVING - PEDESTRIAN, REFER TO SPECIFICATIONS	A D3.1
	CONCRETE PAVING - VEHICULAR, REFER TO SPECIFICATIONS	A D3.1
	PERMEABLE PAVERS, REFER TO SPECIFICATIONS	C D3.1
	ASPHALT PAVING - PEDESTRIAN, REFER TO SPECIFICATIONS	E D3.1
	ASPHALT PAVING - VEHICULAR, REFER TO SPECIFICATIONS	E D3.1
	SLURRY COAT EXISTING ASPHALT PAVING, REFER TO SPECIFICATIONS	
	DECOMPOSED GRANITE, REFER TO SPECIFICATIONS	
	AGGREGATE BASE	
	RESILIENT SURFACING OVER AGGREGATE BASE	XX DX.X
	SYNTHETIC TURF AT SPORTS FIELD	XX DX.X
	SYNTHETIC TURF ON SLOPING CONCRETE SLAB	XX DX.X
	NATURAL TURF AT SOCCER FIELD	XX DX.X
	MULCH, REFER TO SPECIFICATIONS	XX DX.X
	ENGINEERED WOOD FIBER, REFER TO SPECIFICATIONS	XX DX.X
	TRUNCATED DOMES - REFER TO SPECIFICATIONS	XX DX.X
	RAIN GARDEN / SELF-RETAINING AREA, REFER TO GRADING AND PLANTING PLAN. BASE BID - INSTALL BIO FILTRATION SOIL IN LIEU OF NATIVE SOIL FOR RAIN GARDENS AS PER PLANS.	
	PLANTING AREA - "NOT IN CONTRACT" / RIPARIAN PLANTING AREA - "NOT IN CONTRACT"	
	SCORE JOINT / EXPANSION JOINT	XX DX.X
	100 YEAR FLOOD LINE	XX DX.X
1	SYNTHETIC TURF CONNECTION	XX DX.X
2	SCUPPER AT CONCRETE CURB	XX DX.X
3	CONCRETE CURB - TYPE A1 CURBS	XX DX.X
4	6" WIDE CONCRETE CURB	XX DX.X
5	6" WIDE CONCRETE TALL CURB	XX DX.X
6	12" WIDE CONCRETE TALL CURB	XX DX.X
7	12" WIDE CONCRETE EDGEBAND	XX DX.X
8	12" WIDE RETAINING WALL	XX DX.X
9	18" WIDE SEATING WALL	XX DX.X
10	ACCESSIBLE RAMP / CURB RAMP	XX DX.X
11	PERMALOC METAL EDGING - REFER TO SPECIFICATIONS	XX DX.X
12	PARKING LOT STRIPING, REFER TO SPECIFICATIONS	XX DX.X
13	ADA PARKING STALL STRIPING AND SIGNAGE	XX DX.X
14	SHARROW BIKE MARKING, REFER TO SPECIFICATIONS	XX DX.X
15	CROSSWALK STRIPING	XX DX.X
16	ASPHALT STRIPING AT TRAIL, REFER TO SPECIFICATIONS	XX DX.X
17	TREE WELL IN PARKING LOT	XX DX.X
18	REINSTALLATION OF EXISTING WHEEL STOP	XX DX.X
19	REMOVABLE BOLLARD, REFER TO SPECIFICATIONS	XX DX.X
20	DRINKING FOUNTAIN, REFER TO SPECIFICATIONS	XX DX.X

PLAY STRUCTURE LEGEND

SYM	DESCRIPTION	DTL REF			
	2-5 YR OLD ZONE				
A1	LAPPSET-FLORA SHIP	XX DX.X	A2	SPEC - DOLPHIN ROCKER	XX DX.X
A3	SPEC - SEAHORSE ROCKER	XX DX.X	A4	LAPPSET FLORA GRASSHOPPER	XX DX.X
A5	PLAYWORLD - EARLY CHILDHOOD T-SWING	XX DX.X	A6	BURKE - SS DOUBLE WIDE SLIDE (NUCLEUS)	XX DX.X
A7	BURKE - ANOVA HILLSIDE CLIMBERS	XX DX.X	A8	BERLINER - HILLSIDE ROPE CLIMBER	XX DX.X

OTHER					
F1	ENTRY PORTAL - COLORED SHADE PANELS	XX DX.X	F2	SHADE SCULPTURE - COLORED SHADE PANELS	XX DX.X
F3	BOULDER	XX DX.X	F4	DRIFT WOOD LOG	XX DX.X
DRIFT WOOD					
G1	DRIFT WOOD - LOG 1	XX DX.X	G1	DRIFT WOOD - LOG 2	XX DX.X

SLIDING ZONE					
D1	SCAVENGER HUNT PANEL + POLLINATOR PANEL	XX DX.X	D2	BOULDERS 12" - 18" EXPOSED ABOVE GRADE	XX DX.X
D3	EXISTING RAMSAY PARK SLIDE	XX DX.X	D4	SPEC - NOVO HILLSIDE ACCESS LOOPS	XX DX.X
D5	TERRANO - LOW ROPE CLIMBERS	XX DX.X	D6	LAPPSET - FISH TRAP	XX DX.X
D7	LAPPSET - UNICORN STALL	XX DX.X	D8	LAPPSET - GOBLIN'S CLIMBER	XX DX.X
D9	LAPPSET - MAGIC MOUNTAIN - CUSTOM	XX DX.X	D10	LAPPSET - Q-ATTACHMENT	XX DX.X
D11	BERLINER - CUSTOM TRANSFER STATION	XX DX.X			
SWING AND SWAY ZONE					
E1	SPEC - ACCESS WHIRL	XX DX.X	E2	SWIFT TWIST	XX DX.X
E3	PLAYWORLD - CUSTOM 8 SWING	XX DX.X	E4	DOUBLE CLOUD 9	XX DX.X

MUSICAL PLAY ZONE					
B1	SPEC - STEPPING STONES	XX DX.X	B2	SPEC - SONORA	XX DX.X
B3	SPEC - PETAL DRUMS	XX DX.X	B4	SPEC - EMPEROR CHIMES	XX DX.X
B5	SPEC - TUTTI	XX DX.X	B6	KINDER BELLS	XX DX.X
CLIMBING ZONE					
C1	SPEC - ROLLER TABLE	XX DX.X	C2	SPEC - DISK XL	XX DX.X
C3	VOLTA INCLUSIVE SPINNER	XX DX.X	C4	SPEC - O'TANNEBAUM	XX DX.X
C5	LOG STEPPERS	XX DX.X			

REGISTERED LANDSCAPE ARCHITECT — DEREK MCKEE — No. 4148 — Signature — EXPIRATION DATE: DEC. 2022 — STATE OF CALIFORNIA

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CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

MATERIAL AND DETAIL REFERENCE PLAN

Approved by: MARIA ESTHER CARRANZA RODRIGUEZ — Date:

Designed by: VERDE — Drawn by: TY/DM — Checked by:
Job No. 2106300 — Scale 1"=20'-0"
SHEET L9.4 — X of 106

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4

DRAWING NAME: Y:\Projects-SC\2021\2106300 - Watsonville Ramsay Park Improvements\cad_MAT.dwg
PLOT DATE: 07-01-22 PLOTTED BY: station78

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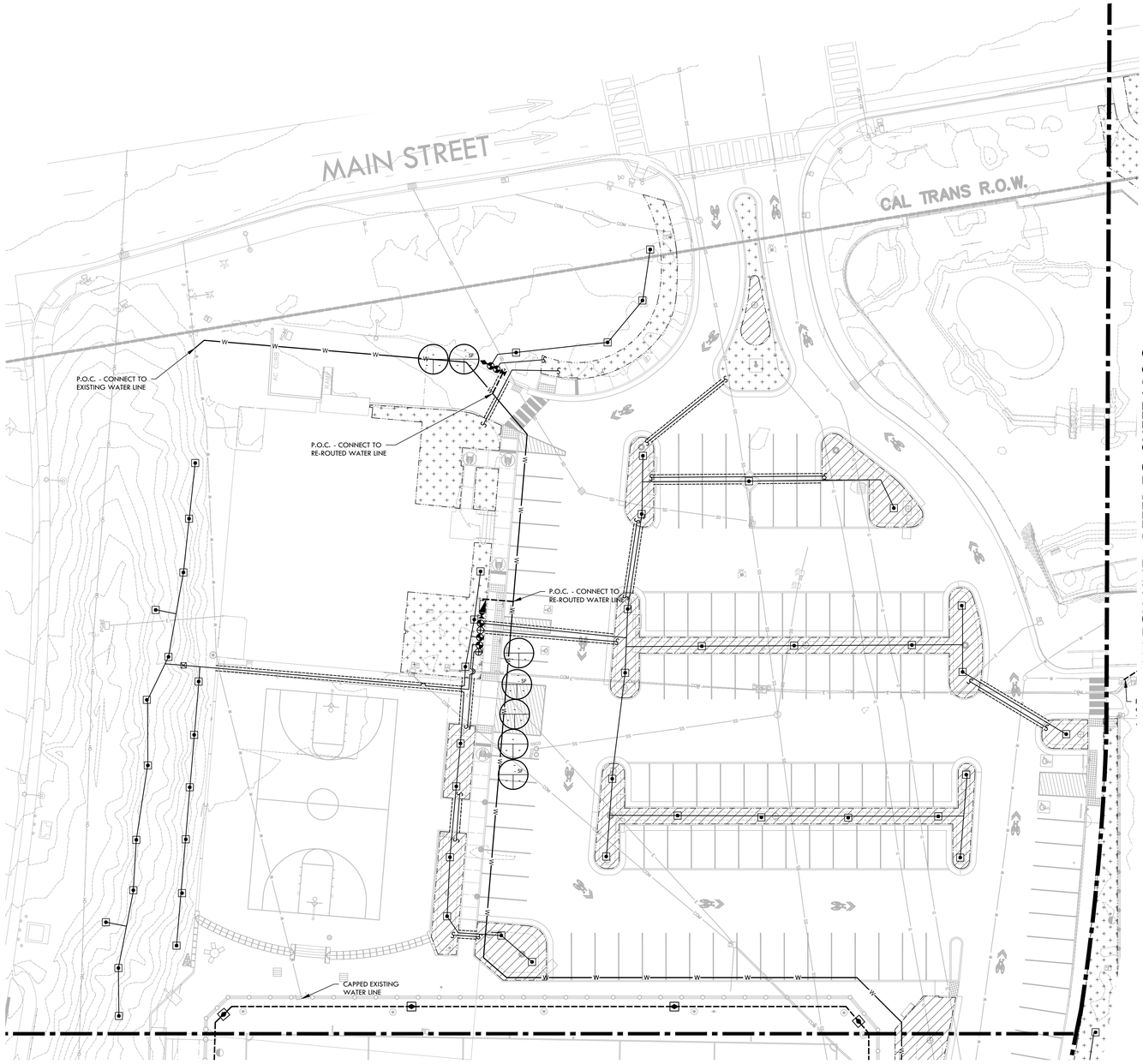

IRRIGATION NOTES

1. THIS SYSTEM IS DESIGNED TO OPERATE AT A MAXIMUM FLOW OF (80) GPM WITH A MINIMUM (70) STATIC P.S.I. AT THE POINT OF CONNECTION. OWNER SHALL VERIFY PRESSURE PRIOR TO BEGINNING WORK.
2. IRRIGATION SYSTEM DESIGN IS DIAGRAMMATIC. WHERE PIPING, VALVES, QUICK COUPLERS, ETC. ARE SHOWN OUTSIDE PLANTING AREAS, OR LIMIT OF WORK; INTENT IS FOR PIPING, VALVES, ETC., TO BE INSTALLED WITHIN PLANTING AREAS OF PROPERTY. INDICATE EXACT LOCATIONS OF IRRIGATION EQUIPMENT ON RECORD DRAWINGS. REFER TO SPECIFICATIONS.
3. OWNER SHALL PROGRAM CONTROLLERS TO ENSURE PROPER IRRIGATION. BASED ON PLANT WATER REQUIREMENTS, SOLAR EXPOSURE, SOIL TYPE AND SEASON.
4. OWNER SHALL USE EXTREME CARE WHERE IT IS NECESSARY TO TRENCH NEAR EXISTING TREES. EXCAVATION IN AREAS EXHIBITING ROOT 3" AND LARGER SHALL BE DONE BY HAND. ROOTS 2" OR LARGER IN DIAMETER DAMAGED IN CONSTRUCTION SHALL BE CLEANLY CUT.
5. OWNER SHALL MAKE MINOR ADJUSTMENTS TO HEAD AND BUBBLER LOCATIONS IN FIELD AS NECESSARY.
6. OWNER TO FIELD VERIFY LOCATION OF EXISTING IRRIGATION MAIN LINES, CONTROL VALVES, POINTS OF CONNECTION AND EXTEND MAIN LINE AND LATERAL LINES AS NECESSARY TO MAKE TIE-IN.
7. OWNER SHALL REFER TO DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
8. CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF IRRIGATION SLEEVES ONLY.

IRRIGATION LEGEND

SYM.	ITEM	MODEL NO./ DESCRIPTION	CAT. RAD./ DES. RAD	GPM	PSI	DTL REF
●	ROTOR	RAIN BIRD 8005-SS-14 WITH 14 NOZZLE	59'/50'	12.6	50	-
⊡	BUBBLER	RAIN BIRD: RWS-8-C-1402 ROOT WATER ASSEMBLY 2 PER 15 GAL. TREE. 4 PER 24" BOX	-	0.5	30	-
•	SHRUB BUBBLER	RAIN BIRD SHRUB BUBBLER ASSEMBLY, (1) BUBBLER PER SHRUB	-	.25	30	-
◉	REMOTE CONTROL VALVE	RAIN BIRD: PEB SERIES REMOTE CONTROL VALVE WITH PRESSURE REGULAROR - SIZE AS NOTED				-
⊕	REMOTE CONTROL VALVE W/ BALL VALVE	NETAFIM: REMOTE CONTROL VALVE, FILTER, AND PRESSURE REGULATOR KIT: LVCZ10075-LF FOR ZONES RANGING FROM 0.25 - 4.4 GPM LVCZ10075-HF FOR ZONES RANGING FROM 4.5 - 17.6 GPM BALL VALVES SHALL BE TRUE UNION 2000 INDUSTRIAL BALL VALVES.				-
⋈	GATE VALVE	GATE VALVES 2" AND SMALLER SHALL BE NIBCO T-113. FOR VALVES ABOVE 2" IN SIZE UTILIZE NIBCO F-619 FLANGED VALVE WITH SQUARE OPERATING NUT.				-
♦	QUICK COUPLER VALVE	RAIN BIRD: 44LRC QUICK COUPLING VALVE IN LANDSCAPE				-
◈	QUICK COUPLER VALVE	RAIN BIRD: 44LRC QUICK COUPLING VALVE IN HARDSCAPE OR SYNTHETIC TURF				-
◥	BACKFLOW PREVENTER	2" FEBCO 825Y				-
⊠	INLINE CHECK VALVE	KING BROS. CV CHECK VALVE - LINE SIZE, REFER TO SPECIFICATIONS				-
	LATERAL LINE	3/4" LATERAL LINE - SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS, WITH 18" COVER.				-
	LATERAL LINE	1" LATERAL LINE - SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS, WITH 18" COVER.				-
	LATERAL LINE	1-1/4" LATERAL LINE - SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS, WITH 18" COVER.				-
	LATERAL LINE	1-1/2" LATERAL LINE - SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS, WITH 18" COVER.				-
	LATERAL LINE	2" LATERAL LINE - SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS, WITH 18" COVER.				-
	LATERAL LINE	2-1/2" LATERAL LINE - SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS, WITH 18" COVER.				-
W	WATER LINE	NEW 8" C900 PVC WATER LINE INSTALLED 36" BELOW GRADE.				
	MAINLINE	2" AND SMALLER: SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS; 2-1/2" AND LARGER: CLASS 200 WITH RING - TITE CONNECTIONS WITH 24" COVER.				-
	SLEEVES	IRRIGATION SLEEVE - CLASS 200 PVC, SIZE AS NOTED WITH 30" COVER.				-
	CAPPED MAIN LINE	CAPPED MAIN LINE IN IRRIGATION VALVE BOX WITH 30" COIL OF CONTROL WIRES FOR ONE VALVE.				-
	DRIP LINE AREAS	RAIN GARDEN DRIP TUBING ZONES - NETAFIM TCHCVXR7-1801, EMITTER SPACING 18" O.C., TUBING SPACING 18" O.C.				-
	BUBBLER AREAS	PLANTING AREA BUBBLER ZONES - SHRUB AND GROUND COVER BUBBLER ZONE AREA, SEE PIPE SIZING CHART AND SHRUB BUBBLER IN LEGEND ABOVE				-
	EXISTING IRRIGATION VALVE BOX					
M	EXISTING WATER METER					
	EXISTING WATER VALVE					
	EXISTING IRRIGATION VALVE					
	EXISTING BACKFLOW PREVENTER					
	EXISTING MAIN LINE					

CONTROL VALVE STATION NUMBER
APPROX. GPM FLOW THROUGH VALVE
CONTROL VALVE SIZE

DRIP TUBING ZONE STATION NUMBER
ZONE SQUARE FOOTAGE
APPROX. GPM FLOW THROUGH VALVE
CONTROL VALVE SIZE

PIPE SIZING CHART FOR BUBBLER ZONES

SHRUB BUBBLERS SERVICED BY PIPE SIZE	GPM THROUGH PIPE	LATERAL PIPE SIZE
0-32	0-8	¾"
33-52	9-13	1"
53-88	14-22	1¼"
89-124	23-31	1½"
125-208	32-52	2"

NORTH
0 10' 20' 40' 60'

REGISTERED LANDSCAPE ARCHITECT
DEREK MOREE
No. 4148
Signature
EXPIRATION DATE: DEC. 2022
STATE OF CALIFORNIA

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CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

IRRIGATION PLAN

Approved by MARIA ESTHER CARRANZA RODRIGUEZ Date

Designed by DL
Drawn by DL
Checked by TY/DM
Job No. 2106300
Scale 1"=20'-0"
SHEET L10.1
X of 106

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

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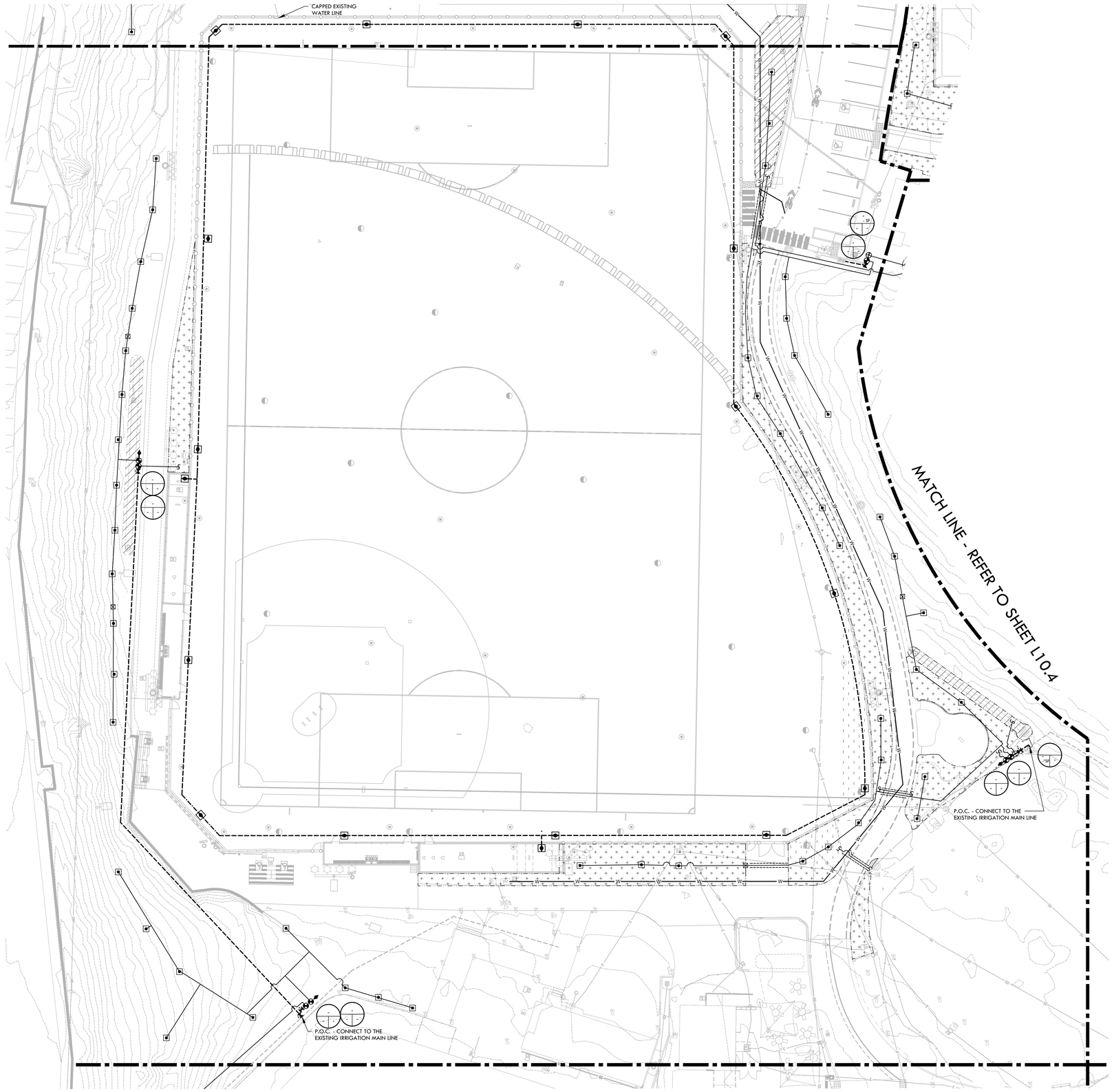
DRAWING NAME: Y:\Projects-SC\2021\2106300 - Watsonville Ramsay Park Improvements\cad_IRR.dwg
PLOT DATE: 07-01-22 PLOTTED BY: station78

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES
0 1 2 3 4



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7. OWNER SHALL REFER TO DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
8. CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF IRRIGATION SLEEVES ONLY.

IRRIGATION LEGEND

SYM.	ITEM	MODEL NO./ DESCRIPTION	CAT. RAD./ DES. RAD	GPM	PSI	DTL REF
●	ROTOR	RAIN BIRD 8005-SS-14 WITH 14 NOZZLE	59'/50'	12.6	50	-
⊡	BUBBLER	RAIN BIRD: RWS-8-C-1402 ROOT WATER ASSEMBLY 2 PER 15 GAL. TREE. 4 PER 24" BOX	-	0.5	30	-
•	SHRUB BUBBLER	RAIN BIRD SHRUB BUBBLER ASSEMBLY, (1) BUBBLER PER SHRUB	-	.25	30	-
⊛	REMOTE CONTROL VALVE	RAIN BIRD: PEB SERIES REMOTE CONTROL VALVE WITH PRESSURE REGULAROR - SIZE AS NOTED				-
⊕	REMOTE CONTROL VALVE W/ BALL VALVE	NETAFIM: REMOTE CONTROL VALVE, FILTER, AND PRESSURE REGULATOR KIT: LVCZ10075-1F FOR ZONES RANGING FROM 0.25 - 4.4 GPM LVCZ10075-HF FOR ZONES RANGING FROM 4.5 - 17.6 GPM BALL VALVES SHALL BE TRUE UNION 2000 INDUSTRIAL BALL VALVES.				-
⋈	GATE VALVE	GATE VALVES 2" AND SMALLER SHALL BE NIBCO T-113. FOR VALVES ABOVE 2" IN SIZE UTILIZE NIBCO F-619 FLANGED VALVE WITH SQUARE OPERATING NUT.				-
♦	QUICK COUPLER VALVE	RAIN BIRD: 44LRC QUICK COUPLING VALVE IN LANDSCAPE				-
⧈	QUICK COUPLER VALVE	RAIN BIRD: 44LRC QUICK COUPLING VALVE IN HARDSCAPE OR SYNTHETIC TURF				-
▬	BACKFLOW PREVENTER	2" FEBCO 825Y				-
⊠	INLINE CHECK VALVE	KING BROS. CV CHECK VALVE - LINE SIZE, REFER TO SPECIFICATIONS				-
	LATERAL LINE	3/4" LATERAL LINE - SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS, WITH 18" COVER.				-
	LATERAL LINE	1" LATERAL LINE - SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS, WITH 18" COVER.				-
	LATERAL LINE	1-1/4" LATERAL LINE - SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS, WITH 18" COVER.				-
	LATERAL LINE	1-1/2" LATERAL LINE - SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS, WITH 18" COVER.				-
	LATERAL LINE	2" LATERAL LINE - SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS, WITH 18" COVER.				-
	LATERAL LINE	2-1/2" LATERAL LINE - SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS, WITH 18" COVER.				-
W	WATER LINE	NEW 8" C900 PVC WATER LINE INSTALLED 36" BELOW GRADE.				
	MAINLINE	2" AND SMALLER: SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS; 2-1/2" AND LARGER: CLASS 200 WITH RING - TITE CONNECTIONS WITH 24" COVER.				-
	SLEEVES	IRRIGATION SLEEVE - CLASS 200 PVC, SIZE AS NOTED WITH 30" COVER.				-
	CAPPED MAIN LINE	CAPPED MAIN LINE IN IRRIGATION VALVE BOX WITH 30" COIL OF CONTROL WIRES FOR ONE VALVE.				-
	DRIP LINE AREAS	RAIN GARDEN DRIP TUBING ZONES - NETAFIM TCHCVX87-18D1, EMITTER SPACING 18" O.C., TUBING SPACING 18" O.C.				-
	BUBBLER AREAS	PLANTING AREA BUBBLER ZONES - SHRUB AND GROUND COVER BUBBLER ZONE AREA, SEE PIPE SIZING CHART AND SHRUB BUBBLER IN LEGEND ABOVE				-
	EXISTING IRRIGATION VALVE BOX					
M	EXISTING WATER METER					
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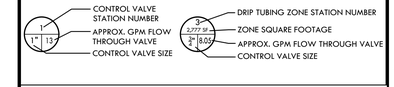

PIPE SIZING CHART FOR BUBBLER ZONES

SHRUB BUBBLERS SERVICED BY PIPE SIZE	GPM THROUGH PIPE	LATERAL PIPE SIZE
0-32	0-8	¾"
33-52	9-13	1"
53-88	14-22	1¼"
89-124	23-31	1½"
125-208	32-52	2"

NORTH

0 10' 20' 40' 60'

REGISTERED LANDSCAPE ARCHITECT — DEREK MCKEE — No. 4148 — Signature — EXPIRATION DATE: DEC. 2022 — STATE OF CALIFORNIA

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
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Santa Clara, CA 95050
tel: 408.985.7200
fax: 408.985.7260
www.VerdeDesignInc.com

CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

IRRIGATION PLAN

Approved by: MARIA ESTHER CARRANZA RODRIGUEZ — Date:

Designed by: DL | Drawn by: DL | Checked by: TY/DM

Job No. 2106300 | Scale 1"=20'-0"

SHEET L10.2 X of 106

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

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DRAWING NAME: Y:\Projects-SC\2021\2106300 - Watsonville Ramsay Park Improvements\cad_IRR.dwg
PLOT DATE: 07-01-22 PLOTTED BY: station78

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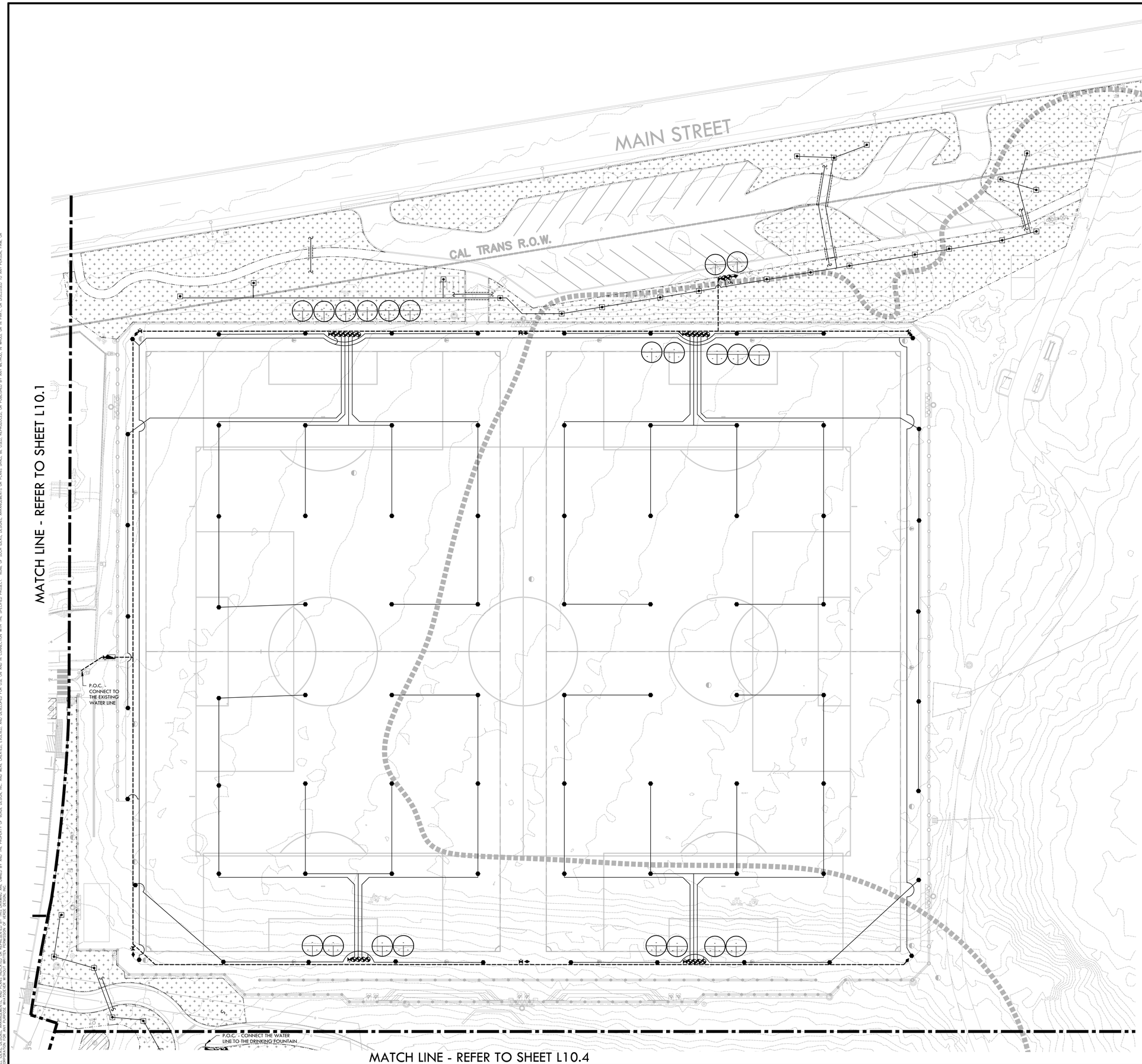

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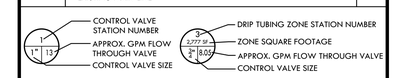

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DEREK MCKEE
No. 4148
Signature
EXPIRATION DATE: DEC. 2022
STATE OF CALIFORNIA

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CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

IRRIGATION PLAN

Approved by _____ Date _____
MARIA ESTHER CARRANZA RODRIGUEZ

Designed by DL
Drawn by DL
Checked by TY/DM
Job No. 2106300
Scale 1"=20'-0"
SHEET L10.3
X of 106

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

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PLOT DATE: 07-01-22 PLOTTED BY: station78

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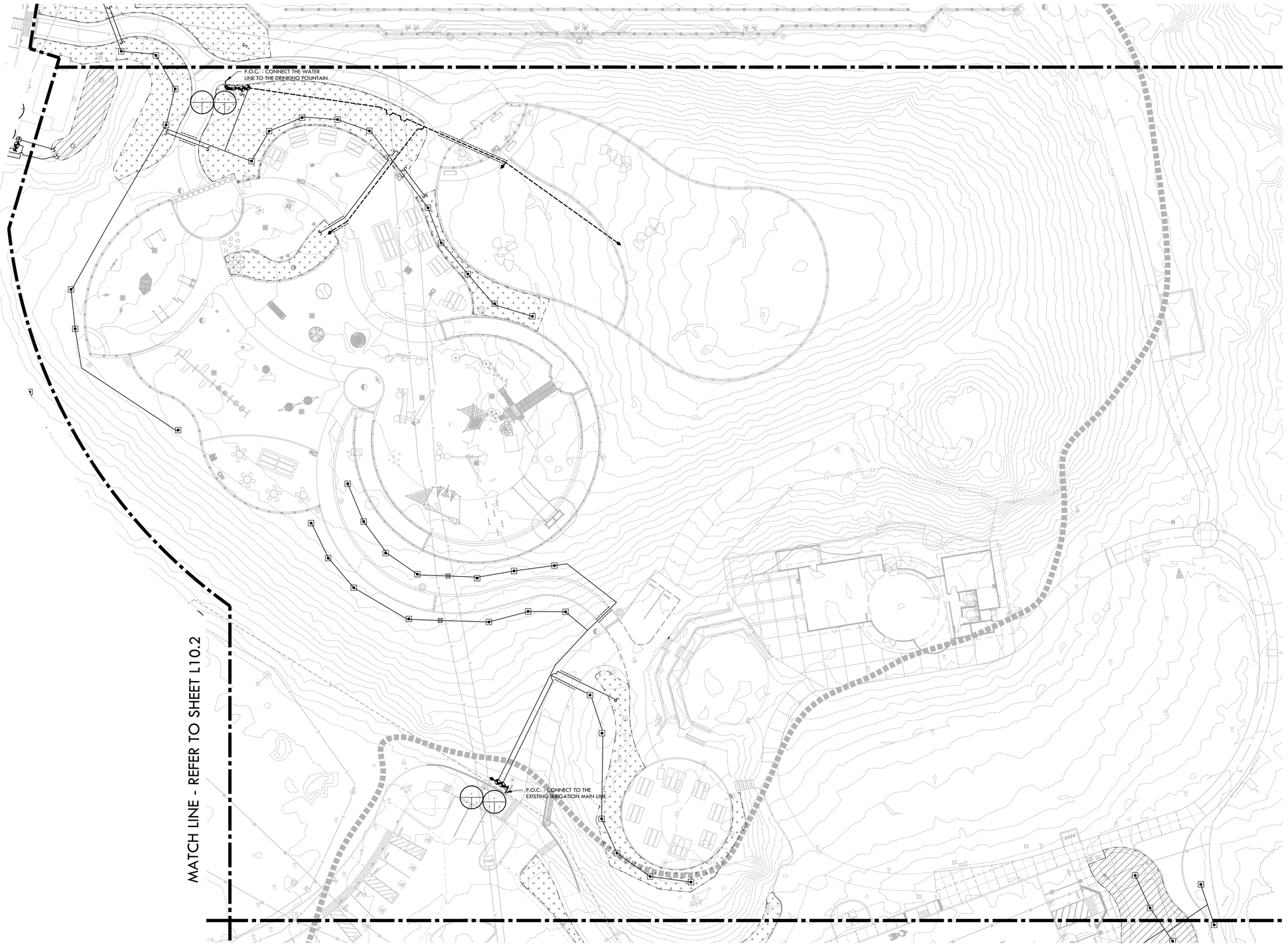

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CONTROL VALVE STATION NUMBER
APPROX. GPM FLOW THROUGH VALVE
CONTROL VALVE SIZE

DRIP TUBING ZONE STATION NUMBER
ZONE SQUARE FOOTAGE
APPROX. GPM FLOW THROUGH VALVE
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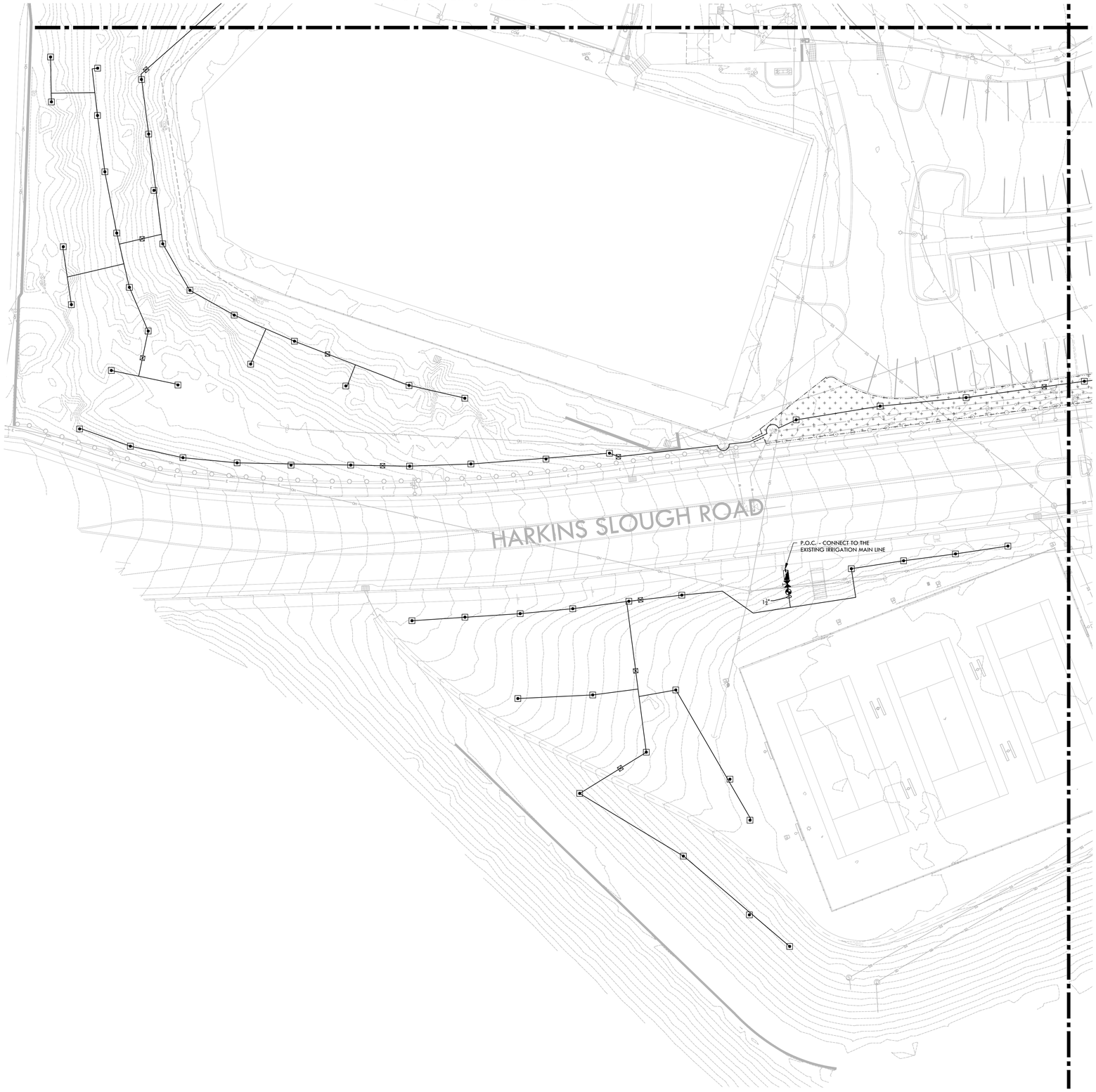

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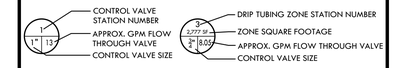
5. OWNER SHALL MAKE MINOR ADJUSTMENTS TO HEAD AND BUBBLER LOCATIONS IN FIELD AS NECESSARY.
6. OWNER TO FIELD VERIFY LOCATION OF EXISTING IRRIGATION MAIN LINES, CONTROL VALVES, POINTS OF CONNECTION AND EXTEND MAIN LINE AND LATERAL LINES AS NECESSARY TO MAKE TIE-IN.
7. OWNER SHALL REFER TO DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
8. CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF IRRIGATION SLEEVES ONLY.

IRRIGATION LEGEND

SYM.	ITEM	MODEL NO./ DESCRIPTION	CAT. RAD./ DES. RAD	GPM	PSI	DTL REF
●	ROTOR	RAIN BIRD 8005-SS-14 WITH 14 NOZZLE	59'/50'	12.6	50	-
⊡	BUBBLER	RAIN BIRD: RWS-8-C-1402 ROOT WATER ASSEMBLY 2 PER 15 GAL. TREE. 4 PER 24" BOX	-	0.5	30	-
•	SHRUB BUBBLER	RAIN BIRD SHRUB BUBBLER ASSEMBLY, (1) BUBBLER PER SHRUB	-	.25	30	-
◉	REMOTE CONTROL VALVE	RAIN BIRD: PEB SERIES REMOTE CONTROL VALVE WITH PRESSURE REGULAROR - SIZE AS NOTED				-
⊕	REMOTE CONTROL VALVE W/ BALL VALVE	NETAFIM: REMOTE CONTROL VALVE, FILTER, AND PRESSURE REGULATOR KIT: LVCZ10075-LF FOR ZONES RANGING FROM 0.25 - 4.4 GPM LVCZ10075-HF FOR ZONES RANGING FROM 4.5 - 17.6 GPM BALL VALVES SHALL BE TRUE UNION 2000 INDUSTRIAL BALL VALVES.				-
⋈	GATE VALVE	GATE VALVES 2" AND SMALLER SHALL BE NIBCO T-113. FOR VALVES ABOVE 2" IN SIZE UTILIZE NIBCO F-619 FLANGED VALVE WITH SQUARE OPERATING NUT.				-
♦	QUICK COUPLER VALVE	RAIN BIRD: 44LRC QUICK COUPLING VALVE IN LANDSCAPE				-
⧈	QUICK COUPLER VALVE	RAIN BIRD: 44LRC QUICK COUPLING VALVE IN HARDSCAPE OR SYNTHETIC TURF				-
◥	BACKFLOW PREVENTER	2" FEBCO 825Y				-
⊠	INLINE CHECK VALVE	KING BROS. CV CHECK VALVE - LINE SIZE, REFER TO SPECIFICATIONS				-
	LATERAL LINE	3/4" LATERAL LINE - SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS, WITH 18" COVER.				-
	LATERAL LINE	1" LATERAL LINE - SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS, WITH 18" COVER.				-
	LATERAL LINE	1-1/4" LATERAL LINE - SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS, WITH 18" COVER.				-
	LATERAL LINE	1-1/2" LATERAL LINE - SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS, WITH 18" COVER.				-
	LATERAL LINE	2" LATERAL LINE - SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS, WITH 18" COVER.				-
	LATERAL LINE	2-1/2" LATERAL LINE - SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS, WITH 18" COVER.				-
W	WATER LINE	NEW 8" C900 PVC WATER LINE INSTALLED 36" BELOW GRADE.				
	MAINLINE	2" AND SMALLER: SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS; 2-1/2" AND LARGER: CLASS 200 WITH RING - TITE CONNECTIONS WITH 24" COVER.				-
	SLEEVES	IRRIGATION SLEEVE - CLASS 200 PVC, SIZE AS NOTED WITH 30" COVER.				-
	CAPPED MAIN LINE	CAPPED MAIN LINE IN IRRIGATION VALVE BOX WITH 30" COIL OF CONTROL WIRES FOR ONE VALVE.				-
	DRIP LINE AREAS	RAIN GARDEN DRIP TUBING ZONES - NETAFIM TCHCVXR7-18D1, EMITTER SPACING 18" O.C., TUBING SPACING 18" O.C.				-
	BUBBLER AREAS	PLANTING AREA BUBBLER ZONES - SHRUB AND GROUND COVER BUBBLER ZONE AREA, SEE PIPE SIZING CHART AND SHRUB BUBBLER IN LEGEND ABOVE				-
		EXISTING IRRIGATION VALVE BOX				
M		EXISTING WATER METER				
		EXISTING WATER VALVE				
		EXISTING IRRIGATION VALVE				
		EXISTING BACKFLOW PREVENTER				
		EXISTING MAIN LINE				



PIPE SIZING CHART FOR BUBBLER ZONES

SHRUB BUBBLERS SERVICED BY PIPE SIZE	GPM THROUGH PIPE	LATERAL PIPE SIZE
0-32	0-8	¾"
33-52	9-13	1"
53-88	14-22	1¼"
89-124	23-31	1½"
125-208	32-52	2"

NORTH

0 10' 20' 40' 60'

REGISTERED LANDSCAPE ARCHITECT
DEREK MCKEE
No. 4148
Signature
EXPIRATION DATE: DEC. 2022
STATE OF CALIFORNIA

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
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www.VerdeDesignInc.com

CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

IRRIGATION PLAN

Approved by: MARIA ESTHER CARRANZA RODRIGUEZ Date:

Designed by DL | Drawn by DL | Checked by TY/DM | Job No. 2106300 | Scale 1"=20'-0" | SHEET L10.5 X of 106

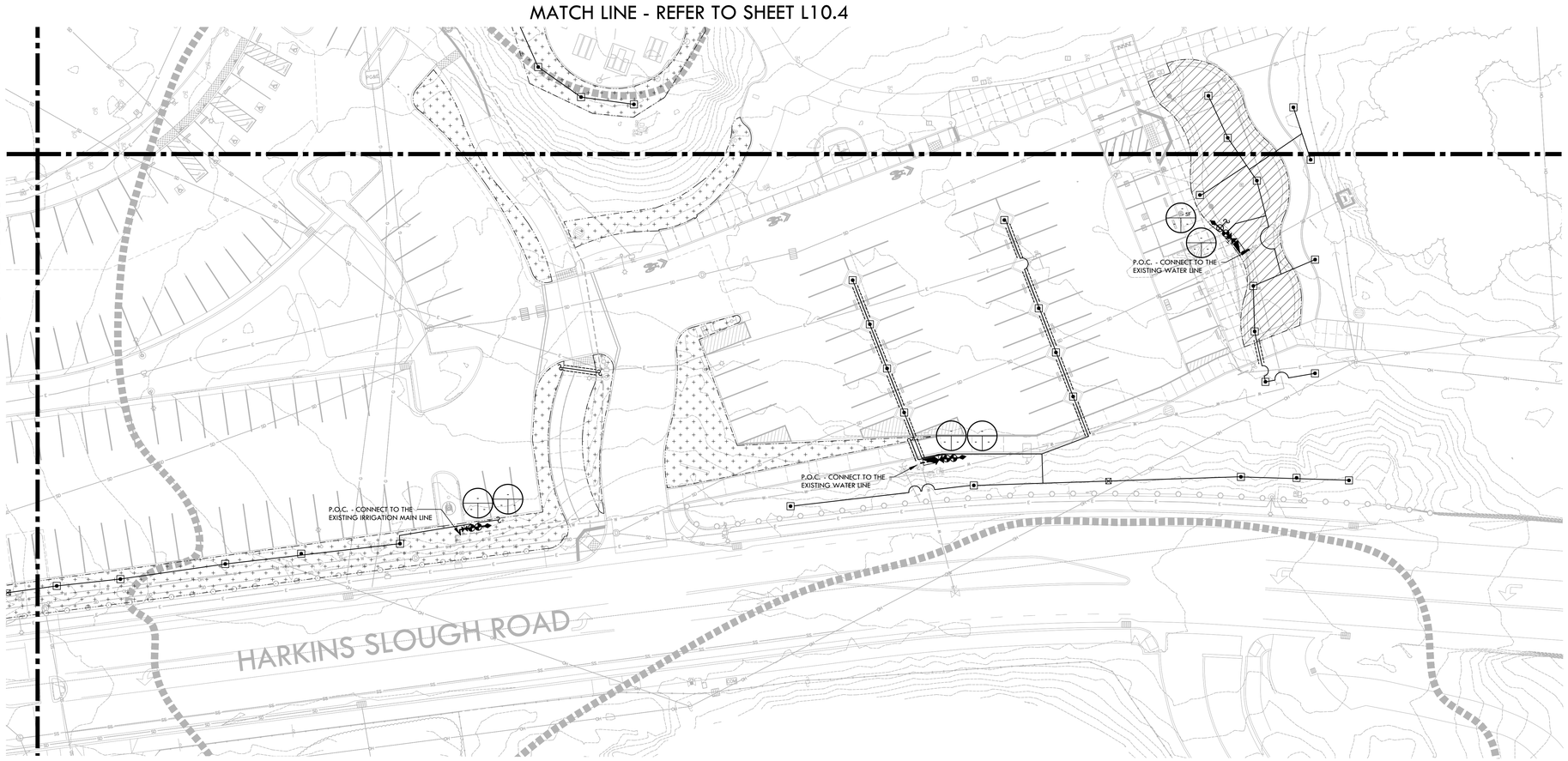
VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

ALL IDEAS, DESIGN, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF VERDE DESIGN, INC.

DRAWING NAME: Y:\Projects-SC\2021\2106300 - Watsonville Ramsay Park Improvements\cad_IRR.dwg
PLOT DATE: 07-01-22 PLOTTED BY: station78

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4



IRRIGATION NOTES

1. THIS SYSTEM IS DESIGNED TO OPERATE AT A MAXIMUM FLOW OF (80) GPM WITH A MINIMUM (70) STATIC P.S.I. AT THE POINT OF CONNECTION. OWNER SHALL VERIFY PRESSURE PRIOR TO BEGINNING WORK.
2. IRRIGATION SYSTEM DESIGN IS DIAGRAMMATIC. WHERE PIPING, VALVES, QUICK COUPLERS, ETC. ARE SHOWN OUTSIDE PLANTING AREAS, OR LIMIT OF WORK; INTENT IS FOR PIPING, VALVES, ETC., TO BE INSTALLED WITHIN PLANTING AREAS OF PROPERTY. INDICATE EXACT LOCATIONS OF IRRIGATION EQUIPMENT ON RECORD DRAWINGS. REFER TO SPECIFICATIONS.
3. OWNER SHALL PROGRAM CONTROLLERS TO ENSURE PROPER IRRIGATION. BASED ON PLANT WATER REQUIREMENTS, SOLAR EXPOSURE, SOIL TYPE AND SEASON.
4. OWNER SHALL USE EXTREME CARE WHERE IT IS NECESSARY TO TRENCH NEAR EXISTING TREES. EXCAVATION IN AREAS EXHIBITING ROOT 3" AND LARGER SHALL BE DONE BY HAND. ROOTS 2" OR LARGER IN DIAMETER DAMAGED IN CONSTRUCTION SHALL BE CLEANLY CUT.
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◉	REMOTE CONTROL VALVE	RAIN BIRD: PEB SERIES REMOTE CONTROL VALVE WITH PRESSURE REGULAROR - SIZE AS NOTED				-
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	LATERAL LINE	3/4" LATERAL LINE - SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS, WITH 18" COVER.				-
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	LATERAL LINE	2" LATERAL LINE - SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS, WITH 18" COVER.				-
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	CAPPED MAIN LINE	CAPPED MAIN LINE IN IRRIGATION VALVE BOX WITH 30" COIL OF CONTROL WIRES FOR ONE VALVE.				-
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	BUBBLER AREAS	PLANTING AREA BUBBLER ZONES - SHRUB AND GROUND COVER BUBBLER ZONE AREA, SEE PIPE SIZING CHART AND SHRUB BUBBLER IN LEGEND ABOVE				-
		EXISTING IRRIGATION VALVE BOX				
M		EXISTING WATER METER				
		EXISTING WATER VALVE				
		EXISTING IRRIGATION VALVE				
		EXISTING BACKFLOW PREVENTER				
		EXISTING MAIN LINE				

1 — CONTROL VALVE STATION NUMBER
1" — APPROX. GPM FLOW THROUGH VALVE
13 — CONTROL VALVE SIZE

3 — DRIP TUBING ZONE STATION NUMBER
2,777 SF — ZONE SQUARE FOOTAGE
3" — APPROX. GPM FLOW THROUGH VALVE
8.05 — CONTROL VALVE SIZE

PIPE SIZING CHART FOR BUBBLER ZONES

SHRUB BUBBLERS SERVICED BY PIPE SIZE	GPM THROUGH PIPE	LATERAL PIPE SIZE
0-32	0-8	3/4"
33-52	9-13	1"
53-88	14-22	1 1/4"
89-124	23-31	1 1/2"
125-208	32-52	2"

NORTH

0 10' 20' 40' 60'

REGISTERED LANDSCAPE ARCHITECT — BEREK MCREE — No. 4148 — Signature — EXPIRATION DATE: DEC. 2022 — STATE OF CALIFORNIA

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
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CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

IRRIGATION PLAN

Approved by _____ Date _____
MARIA ESTHER CARRANZA RODRIGUEZ

Designed by DL
Drawn by DL
Checked by TY/DM
Job No. 2106300
Scale 1"=20'-0"
SHEET L10.6
X of 106

VERDE PROJECT NO. 2106300

DRAWING NAME: Y:\Projects-SC\2021\2106300 - Watsonville Ramsay Park Improvements\cad_IRR.dwg
PLOT DATE: 07-01-22 PLOTTED BY: station78

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

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MATCH LINE - REFER TO SHEET L11.3

MATCH LINE - REFER TO SHEET L11.2

PLANTING NOTES

1. PLANT COUNTS SHOWN ARE FOR BIDDING REFERENCE ONLY. CONTRACTOR SHALL SUPPLY ALL PLANTS REQUIRED TO FULFILL DESIGN INTENT AS SHOWN.
2. CONTRACTOR SHALL PROTECT AND MAINTAIN ALL PLANT MATERIAL FROM TIME OF DELIVERY TO TIME OF FINAL ACCEPTANCE. OWNER SHALL NOT BE RESPONSIBLE FOR LOSSES DUE TO VANDALISM, THEFT OR SEVERE WEATHER.
3. CONTRACTOR SHALL PLACE PLANT MATERIALS SO THEY DO NOT INTERFERE WITH IRRIGATION SYSTEM OR INHIBIT REQUIRED COVERAGE. PLANT LOCATIONS MAY BE ADJUSTED AS LONG AS DESIGN INTENT IS NOT COMPROMISED. CONTRACTOR SHALL SET OUT PLANT MATERIAL AS PER PLAN AND RECEIVE ACCEPTANCE FROM OWNER'S REPRESENTATIVE WITH RESPECT TO PLANT HEALTH AND LOCATION PRIOR TO INSTALLATION. CONTRACTOR SHALL GIVE MINIMUM 2 WORKING DAYS NOTICE FOR OBSERVATION AND SHALL HAVE ALL PLANT MATERIAL IN SPECIFIED LOCATIONS FOR REVIEW AT ONE TIME. CONTRACTOR SHALL REPLACE ANY MATERIAL AS REQUESTED BY OWNER'S REPRERESENTATIVE.
4. ALL NON-TURF PLANTING AREAS SHALL RECEIVE A 3" LAYER OF BARK MULCH TOP DRESS (UNLESS NOTED OTHERWISE). REFER TO SPECIFICATIONS.
5. WHEN WORK HAS TO OCCUR UNDER THE DRIPLINE OF EXISTING TREES NOT SCHEDULED FOR REMOVAL, THE CONTRACTOR SHALL USE ALL POSSIBLE CARE TO AVOID INJURY TO THE TREES AND TREE ROOTS. GRADE IN LINES RADIAL TO THE EXISTING TREES RATHER THAN TANGENTIAL. ALL PARTIAL CUTS OR TEARS THROUGH ROOTS TWO INCHES IN DIAMETER AND LARGER SHALL BE CUT CLEAN. TRENCHES ADJACENT TO TREES SHALL BE FILLED WITHIN 24 HOURS AFTER EXCAVATION, BUT WHERE THIS IS NOT POSSIBLE, THE SIDE OF THE TRENCH ADJACENT TO THE TREE, AND ANY EXPOSED ROOTS SHALL BE KEPT SHADED AND MOIST WITH DAMPENED BURLAP OR CANVAS.
6. ALL SHRUB AND TREE AREA SHALL RECEIVE A WEED FABRIC LAYER. INSTALL WITH STAPLES, 3" OVERLAP AND COVER WITH MULCH.
7. ALL TURF, MULCH AND PLANTERS TO RECEIVE SOIL AMENDMENTS AND SOIL PREPARATION PER SPECIFICATIONS UNLESS OTHERWISE NOTED.
8. CONTRACTOR SHALL PROVIDE JUTE NETTING IN THE ENTIRE PLANTING AREAS. STAKE JUTE NETTING 36" ON CENTER.

PLANTING LEGEND

SYM	QTY	SIZE	BOTANICAL/COMMON NAME	WUCOLS	SPACING/ COMMENTS	DTL REF.
TREES						
	48	15 GAL.	CERCIS OCCIDENTALIS WESTERN REDBUD	L/VL	AS SHOWN	
	7	15 GAL.	CHILOPSIS LINEARIS DESERT WILLOW	L/VL	AS SHOWN	
	27	15 GAL.	LAGERSTROMIA 'MUSKOGEE' CRAPE MYRTLE	M/L	AS SHOWN	
	35	15 GAL.	NYSSA SYLVATICA 'HAYMEN RED' BLACK GUM	M	AS SHOWN	
	55	15 GAL.	QUERCUS AGRIFOLIA COAST LIVE OAK	L/VL	AS SHOWN	
	10	15 GAL.	QUERCUS SHUMARDII SOUTHERN RED OAK	M	AS SHOWN	
	5	15 GAL.	THUJA PLICATA 'EMERALD CONE' WESTERN RED CEDAR	M	AS SHOWN	
	30	15 GAL.	TRISTANIA CONFERTA BRUSH BOX	M	AS SHOWN	
	12	15 GAL.	ZELKOVA SERRATA 'GREEN VASE' JAPANESE ZELKOVA	M	AS SHOWN	
	SHRUBS / ORNAMENTAL GRASSES/ PERENNIALS / GROUNDCOVER					
	BIO-TREATMENT PLANTS					
	SEEDED TURF, REFER TO SPECIFICATIONS.					
	MULCH					
	HYDRO SEEDS, REFER TO SPECIFICATIONS.					
	LIMIT OF WORK					

NORTH

0 10' 20' 40' 60'

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REGISTERED LANDSCAPE ARCHITECT
DEREK MORES
No. 4148
Signature
EXPIRATION DATE: DEC. 2022
STATE OF CALIFORNIA

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CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

PLANTING PLAN

Approved by _____ Date _____
MARIA ESTHER CARRANZA RODRIGUEZ

Designed by DL
Drawn by DL
Checked by TY/DM
Job No. 2106300
Scale 1"=20'-0"
SHEET L11.1
X of 106

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

DRAWING NAME: Y:\Projects-SC\2021\2106300 - Watsonville Ramsay Park Improvements\cad_PLT.dwg
PLOT DATE: 07-01-22 PLOTTED BY: station78

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4

MATCH LINE - REFER TO SHEET L11.1

MATCH LINE - REFER TO SHEET L11.4

MATCH LINE - REFER TO SHEET L11.5

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			HYDRO SEEDS, REFER TO SPECIFICATIONS.			
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NORTH

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CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

PLANTING PLAN

Approved by _____ Date _____
MARIA ESTHER CARRANZA RODRIGUEZ

Designed by DL | Drawn by DL | Checked by TY/DM | Job No. 2106300 | Scale 1"=20'-0" | SHEET L11.2 X of 106

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

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DRAWING NAME: Y:\Projects-SC\2021\2106300 - Watsonville Ramsay Park Improvements\cad_PLT.dwg
PLOT DATE: 07-01-22 PLOTTED BY: station78

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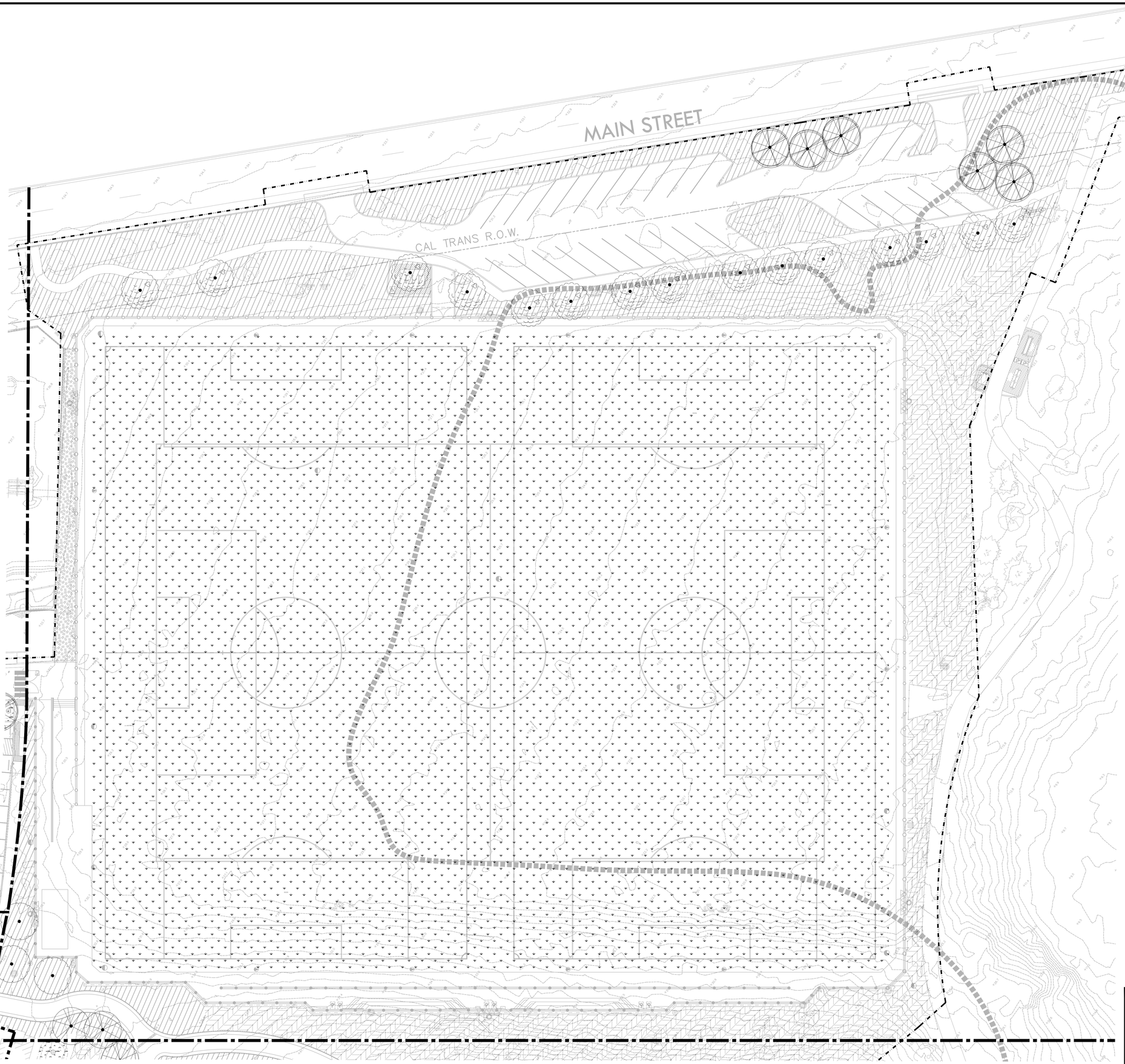

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REGISTERED LANDSCAPE ARCHITECT
DEREK MORE
No. 4148
Signature
EXPIRATION DATE: DEC. 2022
STATE OF CALIFORNIA

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CIVIL ENGINEERING
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CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

PLANTING PLAN

Approved by: MARIA ESTHER CARRANZA RODRIGUEZ Date:

Designed by: DL
Drawn by: DL
Checked by: TY/DM
Job No. 2106300
Scale 1"=20'-0"
SHEET L11.3
X of 106

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

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PLOT DATE: 07-01-22 PLOTTED BY: station78

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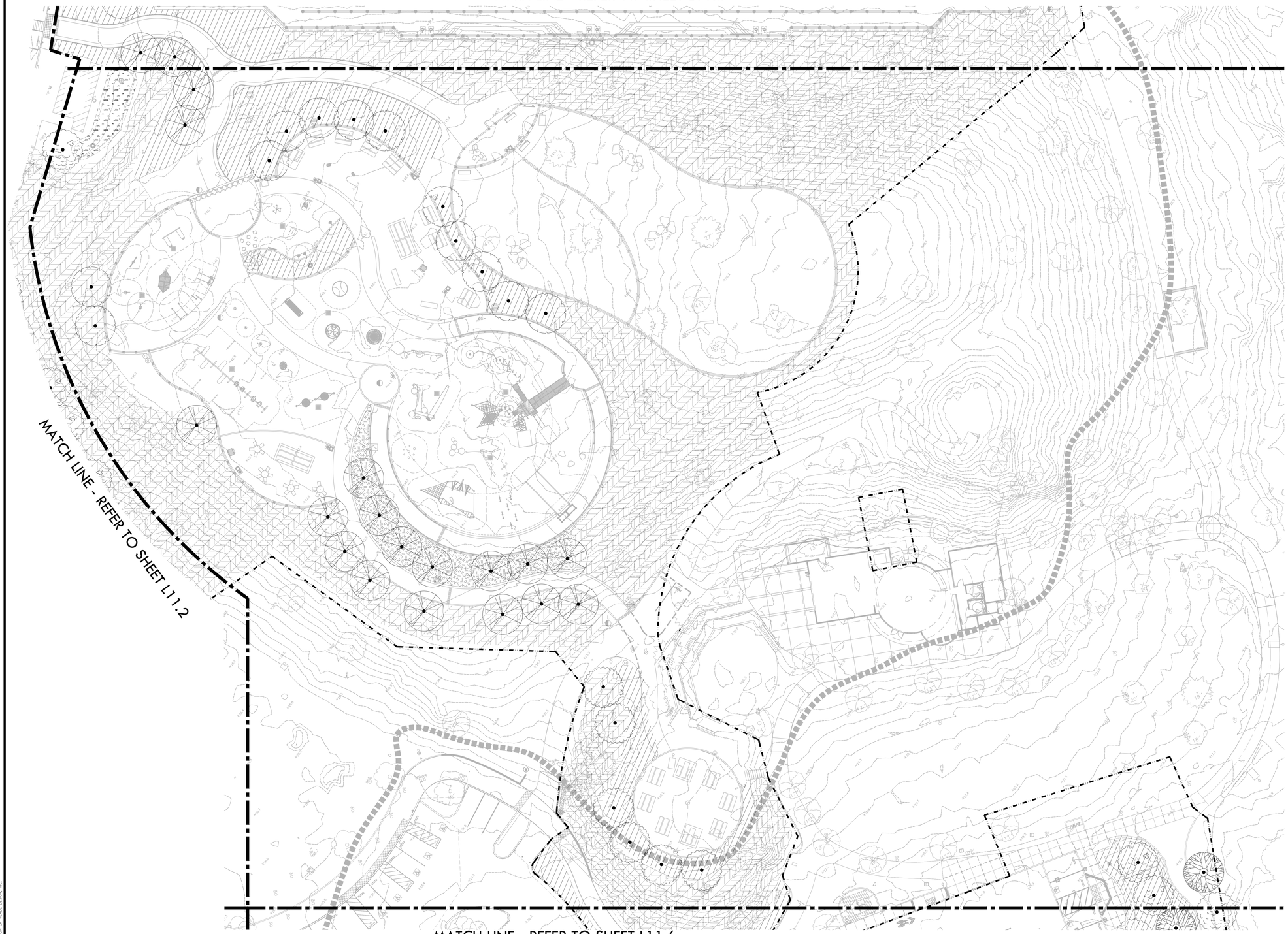

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NORTH

0 10' 20' 40' 60'

REGISTERED LANDSCAPE ARCHITECT — DEREK McREE — No. 4148 — Signature — EXPIRATION DATE: DEC. 2022 — STATE OF CALIFORNIA

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Approved by _____ Date _____
MARIA ESTHER CARRANZA RODRIGUEZ

Designed by DL
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SHEET L11.4
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VERDE PROJECT NO. 2106300

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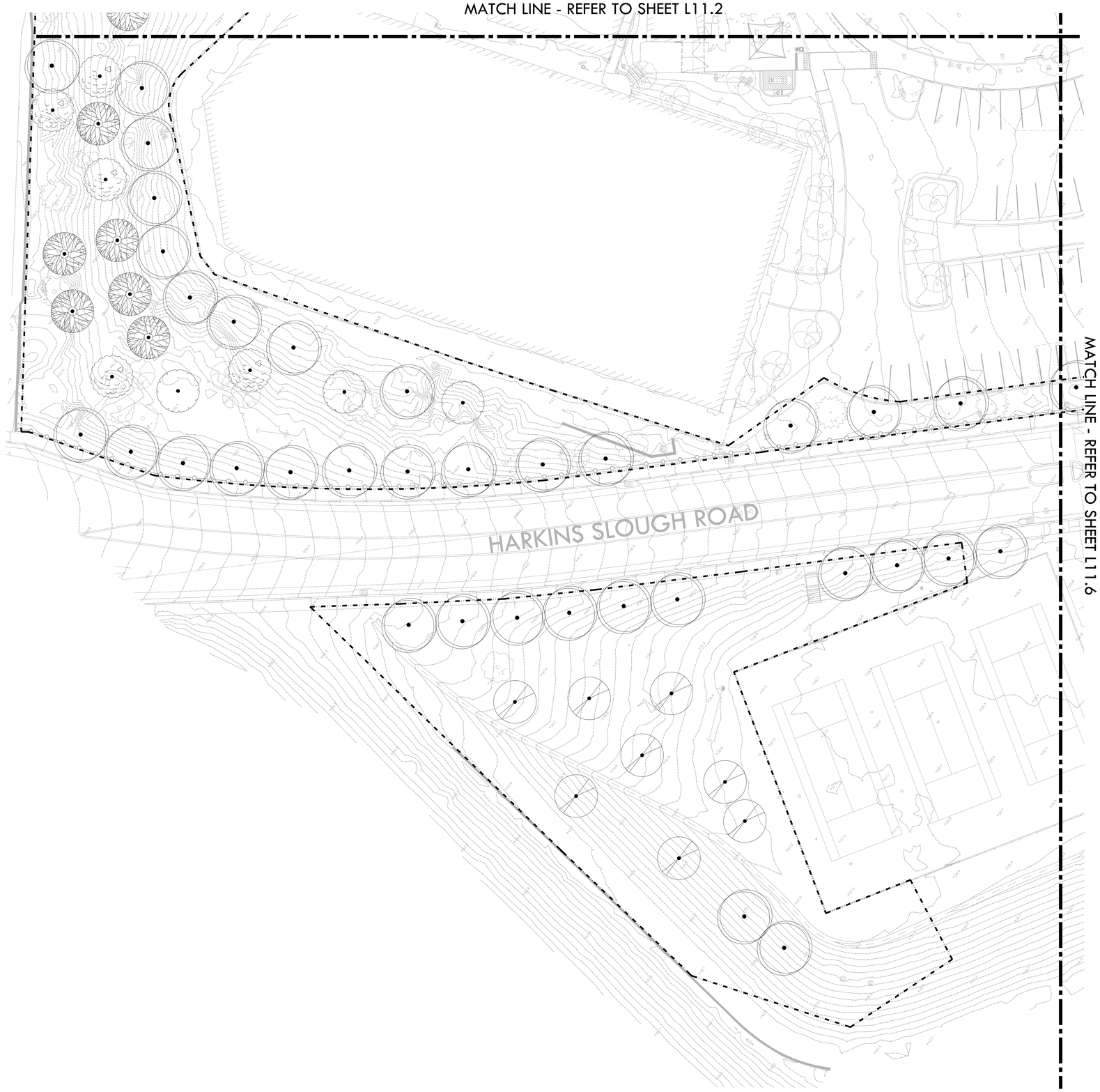

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0 10' 20' 40' 60'

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DEREK MCKEE
No. 4148
Signature
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CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

PLANTING PLAN

Approved by _____ Date _____
MARIA ESTHER CARRANZA RODRIGUEZ

Designed by DL
Drawn by DL
Checked by TY/DM
Job No. 2106300
Scale 1"=20'-0"
SHEET L11.5
X of 106

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

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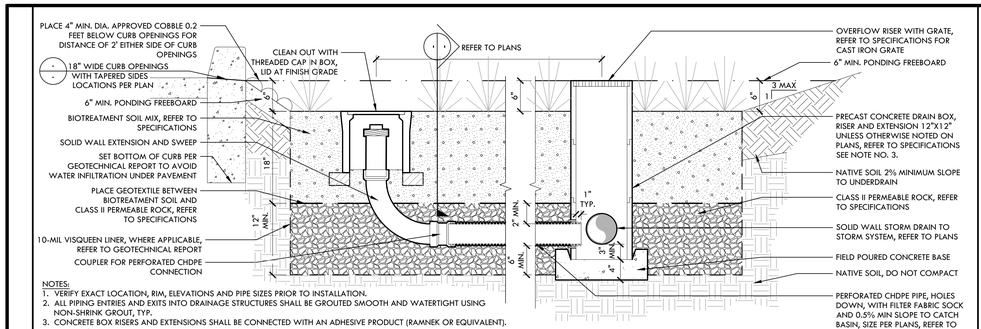
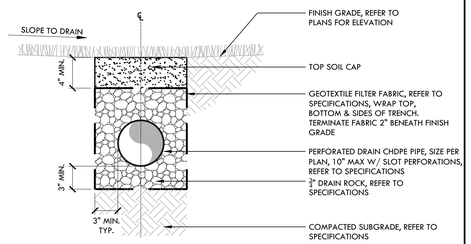
T BIORETENTION AREA AT PARKING LOT/PLANTING AREA — NTS

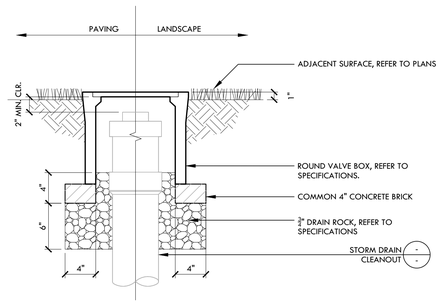


NOTES:
1. VERIFY EXACT LOCATION, RIM, ELEVATIONS AND PIPE SIZES PRIOR TO INSTALLATION.
2. ALL PIPING ENTRIES AND EXITS INTO DRAINAGE STRUCTURES SHALL BE GROUTED SMOOTH AND WATERTIGHT USING NON-SHRINK GROUT, TYP.
3. CONCRETE BOX RISERS AND EXTENSIONS SHALL BE CONNECTED WITH AN ADHESIVE PRODUCT (RAMNEK OR EQUIVALENT).
4. ALL LIDS/GRATES SHALL BE FITTED WITH BOLT OR LOCK-DOWN MECHANISMS.

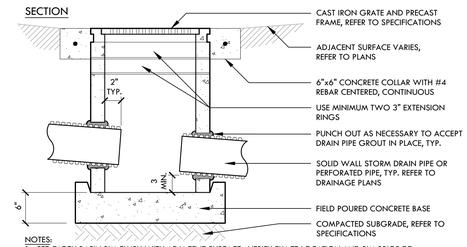
N FRENCH DRAIN IN SOFTSCAPE — NTS



I CLEANOUT BOX IN SOFTSCAPE — NTS

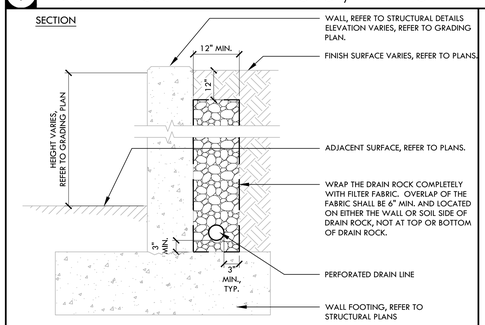


D CATCH BASIN / JUNCTION BOX IN SOFTSCAPE/ HARDSCAPE — NTS

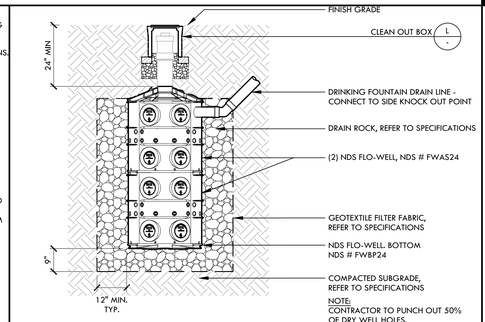


NOTES:
1. SET CATCH BASIN RIM FLUSH WITH ADJACENT SURFACE. VERIFY EXACT LOCATION AND RIM PRIOR TO INSTALLATION.
2. POSITIVE DRAINAGE TO INLET SHALL BE VERIFIED BY CONTRACTOR.
3. ALL PIPING ENTRIES AND EXITS INTO DRAINAGE STRUCTURES SHALL BE GROUTED SMOOTH AND WATERTIGHT USING NON-SHRINK GROUT, TYP.
4. ALL RISERS AND EXTENSIONS SHALL BE CONNECTED WITH AN ADHESIVE PRODUCT, REFER TO SPECIFICATIONS.
5. ALL GRATES SHALL BE FITTED WITH LOCK-DOWN MECHANISMS OR BOLT-DOWN COVERS.
6. FOR BASIN SIZE, RIM AND INVERT ELEVATIONS, REFER TO DRAINAGE PLAN.

R WALL DRAIN — NTS

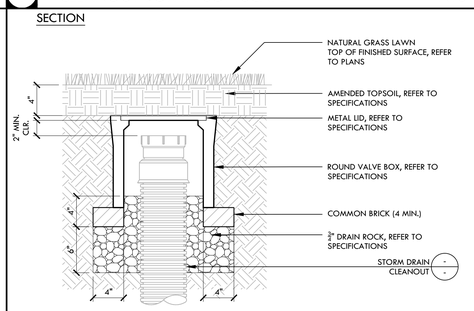


S DRYWELL - DRINKING FOUNTAIN — NTS

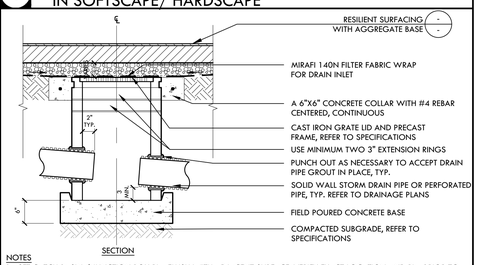


NOTE:
CONTRACTOR TO PUNCH OUT 50% OF DRY WELL HOLES.

H CLEANOUT IN NATURAL TURF — NTS



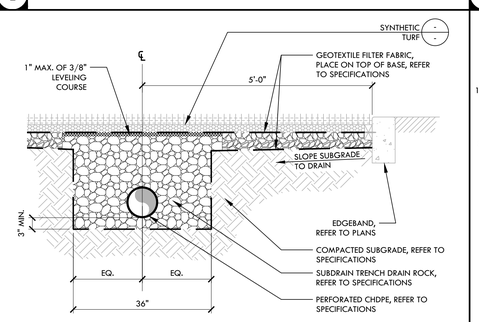
C CATCH BASIN /JUNCTION BOX UNDER RESILIENT SURFACING WITH AGGREGATE BASE — NTS



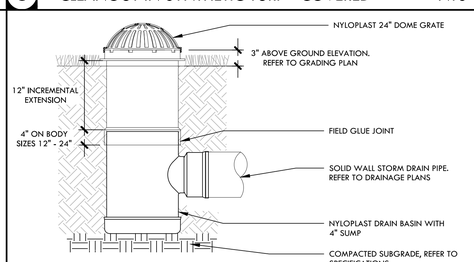
NOTES
1. SET CATCH BASIN / JUNCTION BOX RIM FLUSH WITH ADJACENT SURFACE. VERIFY EXACT LOCATION AND RIM PRIOR TO INSTALLATION.
2. POSITIVE DRAINAGE TO INLET SHALL BE VERIFIED BY CONTRACTOR.
3. ALL PIPING ENTRIES AND EXITS INTO DRAINAGE STRUCTURES SHALL BE GROUTED SMOOTH AND WATERTIGHT USING NON-SHRINK GROUT, TYP.
4. ALL RISERS AND EXTENSIONS SHALL BE CONNECTED WITH AN ADHESIVE PRODUCT (RAMNEK OR EQUIVALENT).
5. ALL GRATES SHALL BE FITTED WITH LOCK-DOWN MECHANISMS OR BOLT-DOWN COVERS.

Q ENERGY DISSIPATOR — NTS

L — NTS

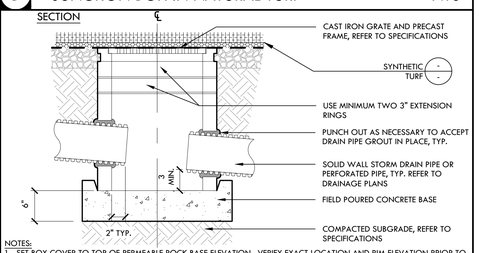


G CLEANOUT IN SYNTHETIC TURF - COVERED — NTS



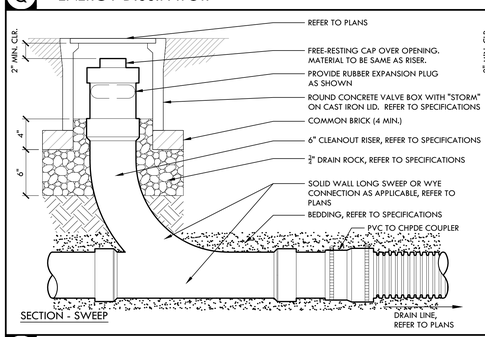
NOTES:
1. VERIFY EXACT LOCATION AND RIM ELEVATION PRIOR TO INSTALLATION.
2. ALL RISERS AND EXTENSIONS SHALL BE CONNECTED WITH AN ADHESIVE PRODUCT, REFER TO SPECIFICATIONS.
3. NYLOPLAST RISER JOINTS SHALL BE FIELD INSTALLED USING THE GUIDELINES OUTLINED IN ASTM D2855.
4. REFER TO MANUFACTURER FOR ADDITIONAL SPECIFICATIONS.

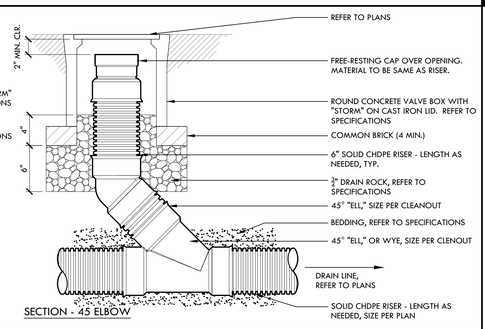
B JUNCTION BOX IN NATURAL TURF — NTS



NOTES:
1. SET BOX COVER TO TOP OF PERMEABLE ROCK BASE ELEVATION. VERIFY EXACT LOCATION AND RIM ELEVATION PRIOR TO INSTALLATION. REFER TO GEOTECHNICAL REPORT FOR LIME TREATMENT/OVER EXCAVATION RECOMMENDATIONS.
2. POSITIVE DRAINAGE TO INLET SHALL BE VERIFIED BY CONTRACTOR.
3. ALL PIPING ENTRIES AND EXITS INTO DRAINAGE STRUCTURES SHALL BE GROUTED SMOOTH AND WATERTIGHT USING NON-SHRINK GROUT, TYP.
4. ALL RISERS AND EXTENSIONS SHALL BE CONNECTED WITH AN ADHESIVE PRODUCT (RAMNEK OR EQUIVALENT).
5. DO NOT CUT A HOLE IN TURF FOR JUNCTION BOX.
6. CONTRACTOR TO PROVIDE A COLOR MARKER TO IDENTIFY THE LOCATION, REFER TO DETAIL C, SHEET L1.2, FOR THE COLOR PLATE.

P STORM DRAIN CLEANOUT — NTS

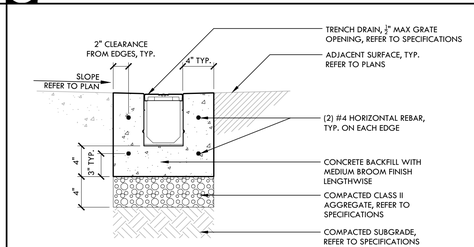




K PERFORATED SUBDRAIN IN SYNTHETIC TURF — NTS

NOTES:
1. CONTRACTOR TO INSTALL SURFACING IMPROVEMENTS PER DRAWINGS. SECTIONS FOR SURFACING IMPROVEMENTS SHALL SUPERCEDE BACKFILL FOR STORM DRAINS.
2. REFER TO GEOTECHNICAL REPORT FOR OVER EXCAVATION RECOMMENDATIONS.

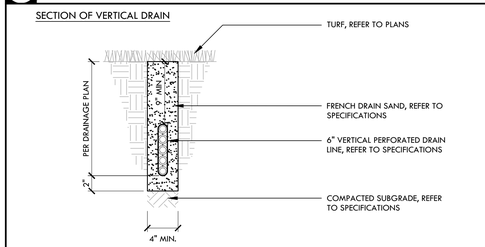
F RAISED CATCH BASIN — NTS

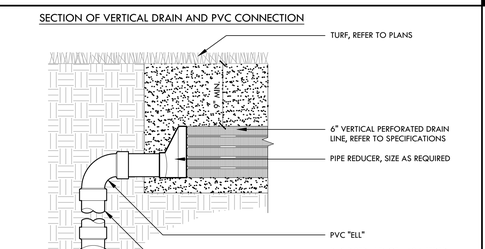


A JUNCTION BOX - SYNTHETIC TURF — NTS

NOTES:
1. SET BOX COVER TO TOP OF PERMEABLE ROCK BASE ELEVATION. VERIFY EXACT LOCATION AND RIM ELEVATION PRIOR TO INSTALLATION. REFER TO GEOTECHNICAL REPORT FOR LIME TREATMENT/OVER EXCAVATION RECOMMENDATIONS.
2. POSITIVE DRAINAGE TO INLET SHALL BE VERIFIED BY CONTRACTOR.
3. ALL PIPING ENTRIES AND EXITS INTO DRAINAGE STRUCTURES SHALL BE GROUTED SMOOTH AND WATERTIGHT USING NON-SHRINK GROUT, TYP.
4. ALL RISERS AND EXTENSIONS SHALL BE CONNECTED WITH AN ADHESIVE PRODUCT (RAMNEK OR EQUIVALENT).
5. DO NOT CUT A HOLE IN TURF FOR JUNCTION BOX.
6. CONTRACTOR TO PROVIDE A COLOR MARKER TO IDENTIFY THE LOCATION, REFER TO DETAIL C, SHEET L1.2, FOR THE COLOR PLATE.

O VERTICAL PERFORATED DRAIN LINE — NTS





NOTES:
1. INSTALL VERTICAL PERFORATED DRAIN LINE IN CENTER OF TRENCH. BACKFILL MATERIAL SHOULD BE SAND, PER SPECIFICATIONS. INSTALLED IN TWO LIFTS AND HAND COMPACTED.
2. CONTRACTOR HAS THE OPTION TO USE THIS DETAIL OR MULTI FLOW RIGI-TOP OR MULTI FLOW CORRU-TOP SYSTEMS.

J TRENCH BACKFILL - SOLID WALL STORM/ SEWER/DOMESTIC — NTS

E TRENCH DRAIN — NTS

NOTES:
1. CONTRACTOR TO ALIGN WITH ADJACENT CONCRETE PAVING JOINTS.

REGISTERED LANDSCAPE ARCHITECT — DEREK MCKEE — No. 4148 — Signature — EXPIRATION DATE: DEC. 2022 — STATE OF CALIFORNIA

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
2455 The Alameda
Santa Clara, CA 95050
tel: 408.985.7200
fax: 408.985.7360
www.VerdeDesignInc.com

CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

DRAINAGE AND UTILITY DETAILS

Approved by: MARIA ESTHER CARRANZA RODRIGUEZ — Date:

Designed by: VERDE — Drawn by: DL — Checked by: TY/DM — Job No. 2106300 — Scale: 1"=20'-0"

SHEET D1.1 X of 106

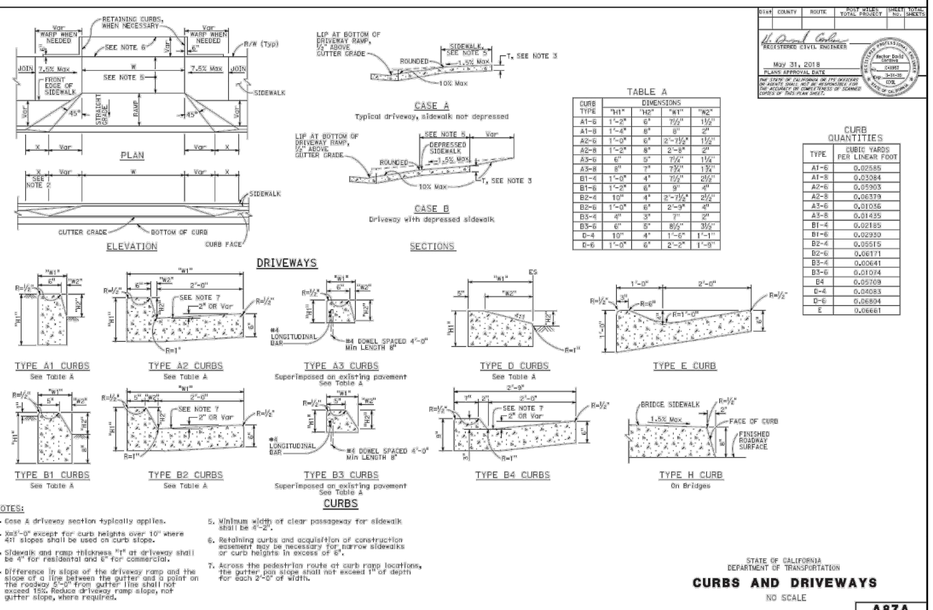
VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4

DRAWING NAME: Y:\Projects-SC\2021\2106300 - Watsonville Ramsay Park Improvements\cad_DTL-DRN_1.dwg
PLOT DATE: 07-01-22 PLOTTED BY: staton78

ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE PRIOR WRITTEN PERMISSION OF VERDE DESIGN, INC.



CURB TYPE	DIMENSIONS "H1"	"H2"	"W1"	"W2"
A1-6	1'-2"	6"	7½"	11½"
A1-8	1'-4"	6"	8"	12"
A2-6	1'-0"	6"	2'-1½"	11½"
A2-8	1'-2"	8"	2'-3"	2"
A3-6	6"	5"	7½"	11½"
A3-8	8"	7"	7¾"	1¾"
B1-6	1'-0"	4"	7½"	2½"
B1-8	1'-2"	6"	8"	4"
B2-6	10"	4"	2'-1½"	2½"
B2-8	1'-0"	6"	2'-3"	4"
B3-6	6"	3"	7"	3"
B3-8	6"	5"	8½"	3½"
D-4	10"	4"	1'-6"	1'-1"
D-6	1'-0"	6"	2'-2"	1'-3"

TABLE A

CURB TYPE	CUBIC YARDS PER LINEAR FOOT
A1-6	0.02585
A1-8	0.03384
A2-6	0.05903
A2-8	0.06339
A3-6	0.01036
A3-8	0.01435
B1-6	0.02185
B1-6	0.02930
B2-6	0.05515
B2-6	0.06171
B3-6	0.00641
B3-6	0.01074
D4	0.05709
D-6	0.04083
D-6	0.06804
E	0.06661

CURB QUANTITIES

NOTES:

1. Case A driveway section typically applies.
2. Xas3'-0" except for curb heights over 10" where 4H slopes shall be used on curb slopes.
3. Sidewalk and ramp thickness "t" at driveway shall be 4" for residential and 6" for commercial.
4. Difference in slope of the driveway ramp and the slope of a line between the gutter and a point on the roadway 5'-0" from gutter line shall not exceed 15%. Reduce driveway ramp slope, not gutter slope, where required.
5. Minimum width of clear passageway for sidewalk shall be 4'-0".
6. Retaining curbs and acquisition of construction easement may be necessary for narrow sidewalks or curb heights in excess of 6".
7. Across the pedestrian route at curb ramp locations, the gutter pan slope shall not exceed 1" of depth for each 2'-0" of width.

DIST	COUNTY	ROUTE	POST MILES	PROJECT NO.	SHEET NO.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER

May 31, 2018

PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OF COMPUTERIZED OR SCANNED COPIES OF THIS PLAN SHEET.

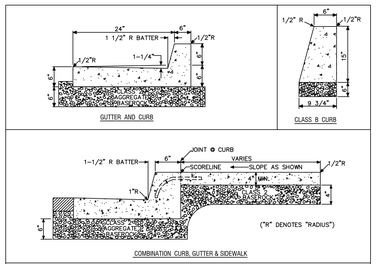
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CURBS AND DRIVEWAYS

NO SCALE

A87A

B CURB AND DRIVEWAYS NTS



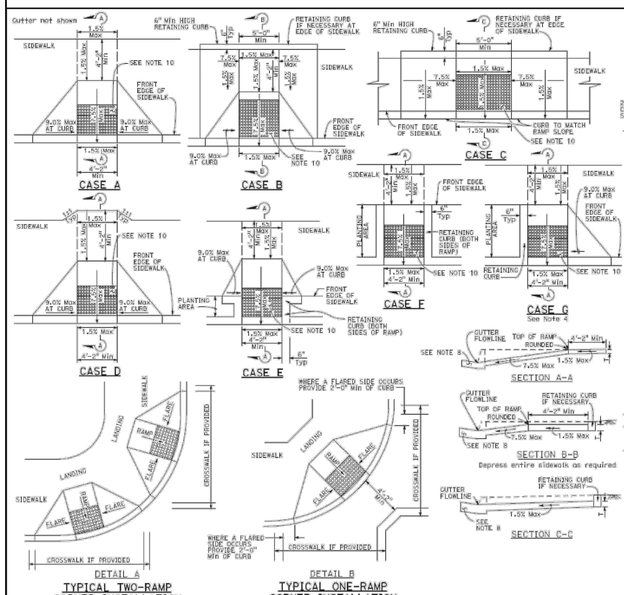
NOTES:

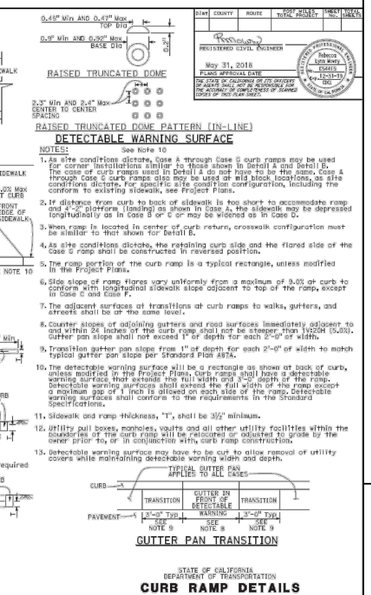
1. ALL CONCRETE SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE TO THE PROVISIONS OF SECTION 73, "CONCRETE CURBS AND SIDEWALKS" OF THE CALTRANS STANDARD SPECIFICATIONS.
2. RELATIVE COMPACTION OF NOT LESS THAN 95% SHALL BE OBTAINED FOR SUBGRADE SOILS AND CLASS 2 AGGREGATE BASE BELOW CURBS AND GUTTERS. RELATIVE COMPACTION OF NOT LESS THAN 90% SHALL BE OBTAINED FOR SUBGRADE SOILS AND CLASS 2 AGGREGATE BASE BELOW SIDEWALKS.
3. LIMITS OF REMOVAL OF ALL CURBS, GUTTERS, SIDEWALKS AND APPROACHES SHALL BE SAWED ALONG EXISTING JOINTS AND SCORE LINES.
4. NEW CONCRETE IMPROVEMENTS SHALL BE JOINED TO EXISTING BY DOWELLING #4 REBAR 6" INTO EXISTING CONCRETE AND 12" INTO NEW CONCRETE EVERY 2'.
5. CONCRETE WHICH HAS BEEN MARKED OR SCRATCHED SHALL BE REMOVED AND REPLACED.
6. USE 1/4" RADIUS JOINTER FOR ALL SCORELINES. LINES SHALL BE STRAIGHT, TRUE TO ALIGNMENT AND DEPTH. PLACE 1/2" SCORELINES EVERY 4', WITH EVERY OTHER SCORELINE BEING A 3/4" DEEP SCORE.
7. 3/4" DEEP SCORE RUNS CONTINUOUSLY THROUGH SIDEWALK AND CURB AND GUTTER.
8. SCORELINES FOR SIDEWALKS WIDER THAN 5' SHALL INCLUDE A 1/2" LONGITUDINAL CENTERED SCORELINE.
9. PLACE EXPANSION JOINTS EVERY 60'.

CITY OF WATSONVILLE PUBLIC WORKS & UTILITIES DEPARTMENT

NOT TO SCALE	STANDARD DRAWING FOR CURB, GUTTER & SIDEWALK	DRAWN: 6/97	REV.: 12/12
DRAWN BY: P.A.C.		RESOLUTION No. 76-13 (CM)	
CHECKED BY: T.S.	CITY OF WATSONVILLE	MARIA ESTHER RODRIGUEZ, CITY ENGINEER	DRAWING No. S-101

E CURB, GUTTER AND SIDEWALK NTS





NOTES:

1. As site conditions dictate, Case A through Case G curb ramps may be used for corner installations similar to those shown in Detail A and Detail B. The case of curb ramps used in Detail A do not have to be the same. Case A through Case G curb ramps also may be used at mid block locations, as site conditions dictate. For specific site condition configuration, including the conform to existing sidewalk, see Project Plans.
2. If distance from curb to back of sidewalk is too short to accommodate ramp and 4'-2" platform (landing) as shown in Case A, the sidewalk may be depressed longitudinally as in Case B or C or may be widened as in Case D.
3. When ramp is located in center of curb return, crosswalk configuration must be similar to that shown for Detail B.
4. As site conditions dictate, the retaining curb side and the flared side of the Case G ramp shall be constructed in reversed position.
5. The ramp portion of the curb ramp is a typical rectangle, unless modified in the Project Plans.
6. Side slope of ramp flares vary uniformly from a maximum of 9.0% at curb to conform with longitudinal sidewalk slope adjacent to top of the ramp, except in Case C and Case F.
7. The adjacent surfaces at transitions at curb ramps to walks, gutters, and streets shall be at the same level.
8. Counter slopes of adjoining gutters and road surfaces immediately adjacent to and within 24 inches of the curb ramp shall not be steeper than 1V:20H (5.00%). Gutter pan slope shall not exceed 1" of depth for each 2'-0" of width.
9. Transition gutter pan slope from 1" of depth for each 2'-0" of width to match typical gutter pan slope per Standard Plan A87A.
10. The detectable warning surface will be a rectangle as shown at back of curb, unless modified in the Project Plans. The detectable warning surface shall contrast visually with adjacent surfaces that extend the full width and length of the ramp. Detectable warning surfaces shall extend the full width of the ramp except a minimum gap of 1 inch is allowed on each side of the ramp. Detectable warning surfaces shall conform to the requirements in the Standard Specifications.
11. Sidewalk and ramp thickness, "t", shall be 3½" minimum.
12. Utility pull boxes, manholes, vaults and all other utility facilities within the boundaries of the curb ramp will be relocated or adjusted to grade by the owner prior to, or in conjunction with, curb ramp construction.
13. Detectable warning surface may have to be cut to allow removal of utility covers while maintaining detectable warning width and depth.

DIST	COUNTY	ROUTE	POST MILES	PROJECT NO.	SHEET NO.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER

May 31, 2018

PLANS APPROVAL DATE

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STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CURB RAMP DETAILS

NO SCALE

A88A

A CURB RAMP NTS

REGISTERED LANDSCAPE ARCHITECT
DEREK MOKE
No. 4148
Signature
EXPIRATION DATE: DEC. 2022
STATE OF CALIFORNIA

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
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Santa Clara, CA 95050
tel: 408.985.7200
fax: 408.985.7260
www.VerdeDesignInc.com

CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

CONSTRUCTION DETAILS

Approved by: MARIA ESTHER CARRANZA RODRIGUEZ — Date

Designed by	VERDE	Job No.	2106300	SHEET	D2.1
Drawn by	TY/DM	Scale	1"=20'-0"	X of	106
Checked by	TY/DM				

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE PRIOR WRITTEN PERMISSION OF VERDE DESIGN, INC.

DRAWING NAME: Y:\Projects-SC\2021\2106300 - Watsonville Ramsay Park Improvements\cad_DTL-CON_2.dwg
PLOT DATE: 07-01-22 PLOTTED BY: station78

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4

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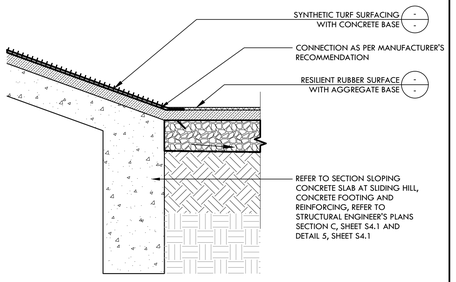
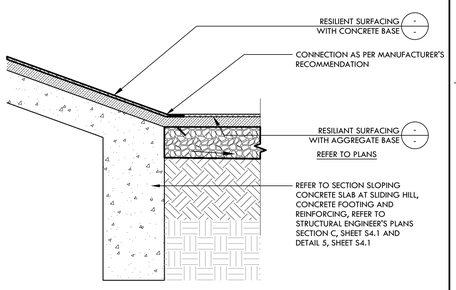
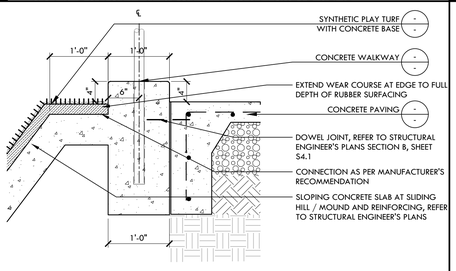


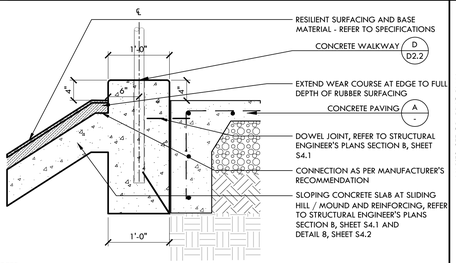
R SYNTHETIC TURF CONNECTION AT SLOPING CONCRETE SLAB — NTS



Q RESILIENT SURFACING CONNECTION AT SLOPING CONCRETE SLAB — NTS

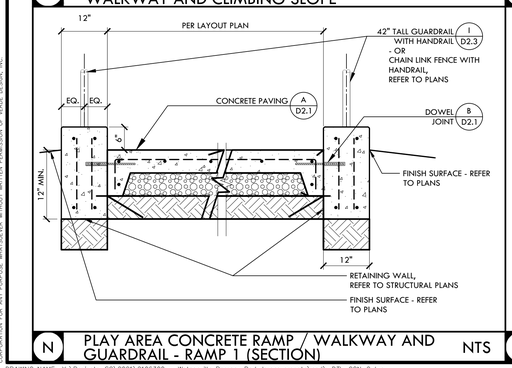


P SYNTHETIC TURF CONNECTION AT SLOPED WALKWAY AND CLIMBING SLOPE — NTS

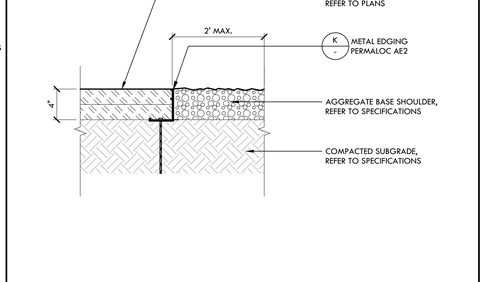


NOTES:
1. TOP OF CONCRETE PLAY CURB, CONCRETE PAVING AND SUBGRADE SHALL BE COORDINATED TO ENSURE POSITIVE DRAINAGE.
2. DEPTH OF RUBBER SURFACING SHALL BE AS RECOMMENDED BY THE CPSC GUIDELINES AND / OR MANUFACTURER, WHICHEVER IS MORE STRINGENT.
3. CONTRACTOR TO CONFIRM MAXIMUM FALL HEIGHT OF ALL THE PLAY EQUIPMENT WITH CPSI.

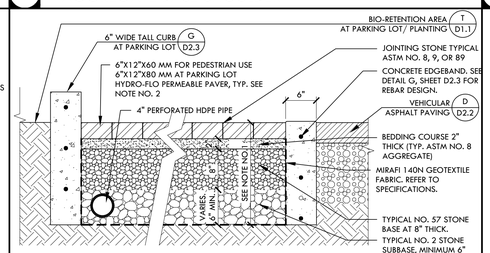
O RESILIENT SURFACING CONNECTION AT SLOPED WALKWAY AND CLIMBING SLOPE — NTS



N PLAY AREA CONCRETE RAMP / WALKWAY AND GUARDRAIL - RAMP 1 (SECTION) — NTS

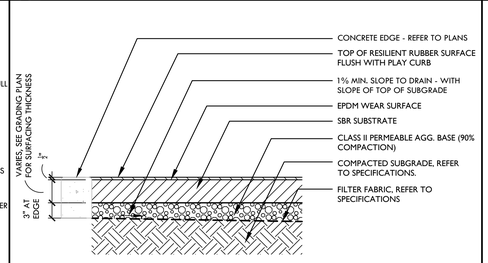


M AGGREGATE BASE SHOULDER — NTS



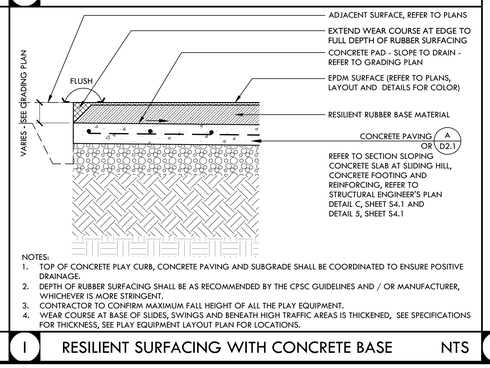
NOTE:
1. ALL CONCRETE FOOTINGS SURROUNDING THE PERMEABLE PAVERS SHALL HAVE THE SAME DEPTH AS THE BASE ROCK MATERIAL BENEATH THE PAVERS, TYP.
2. HYDRO-FLO PERMEABLE PAVERS BY PACIFIC INTERLOCK PAVERS, INC. CONTRACTOR MAY CUT PAVERS AS REQUIRED. CUT PAVERS SHALL BE NO SMALLER THAN 1/3 OF A WHOLE UNIT.
3. NO. 2 STONE SUBBASE THICKNESS VARIES WITH DESIGN. REFER TO ICPI PERMEABLE INTERLOCKING CONCRETE PAVEMENT MANUAL.
4. REFER TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS PRIOR TO INSTALLATION.

L PERMEABLE PAVERS — NTS



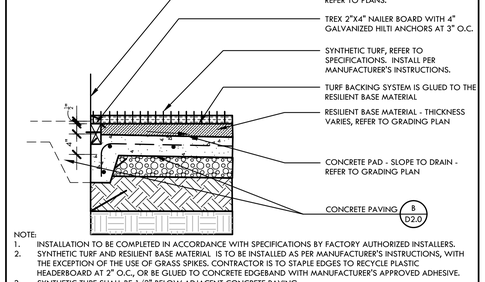
NOTES:
1. TOP OF CONCRETE PLAY CURB, CONCRETE PAVING AND SUBGRADE SHALL BE COORDINATED TO ENSURE POSITIVE DRAINAGE.
2. DEPTH OF RUBBER SURFACING SHALL BE AS RECOMMENDED BY THE CPSC GUIDELINES AND / OR MANUFACTURER, WHICHEVER IS MORE STRINGENT.
3. CONTRACTOR TO CONFIRM MAXIMUM FALL HEIGHT OF ALL THE PLAY EQUIPMENT.
4. WEAR COURSE AT BASE OF SLIDES, SWINGS AND BENEATH HIGH TRAFFIC AREAS IS THICKENED, SEE SPECIFICATIONS FOR THICKNESS, SEE PLAY EQUIPMENT LAYOUT PLAN FOR LOCATIONS.

K DECOMPOSED GRANITE — NTS



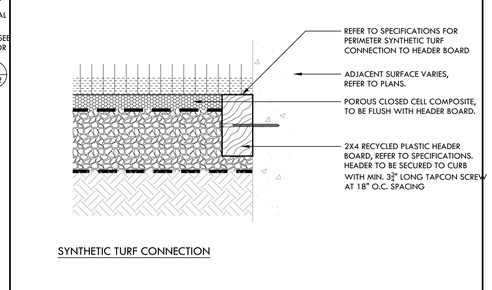
NOTES:
1. TOP OF CONCRETE PLAY CURB AND SUBGRADE SHALL BE COORDINATED TO ENSURE POSITIVE DRAINAGE.
2. DEPTH OF RUBBER SURFACING SHALL BE AS RECOMMENDED BY THE CPSC GUIDELINES AND / OR MANUFACTURER, WHICHEVER IS MORE STRINGENT.

J PLAY AREA RESILIENT SURFACING — NTS

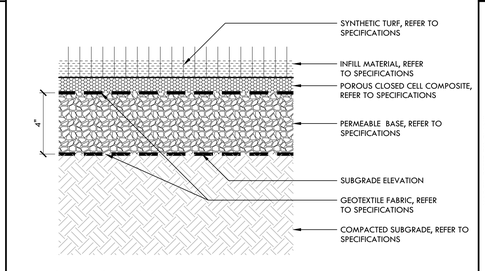


NOTE:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH SPECIFICATIONS BY FACTORY AUTHORIZED INSTALLERS.
2. SYNTHETIC TURF AND RESILIENT BASE MATERIAL IS TO BE INSTALLED AS PER MANUFACTURER'S INSTRUCTIONS, WITH THE EXCEPTION OF THE USE OF GRASS SPIKES. CONTRACTOR IS TO STAPLE EDGES TO RECYCLE PLASTIC HEADERBOARD AT 2" O.C., OR BE GLUED TO CONCRETE EDGEBAND WITH MANUFACTURER'S APPROVED ADHESIVE.
3. SYNTHETIC TURF SHALL BE 1/2" BELOW ADJACENT CONCRETE PAVING.

H SYNTHETIC TURF AND CONNECTION — NTS



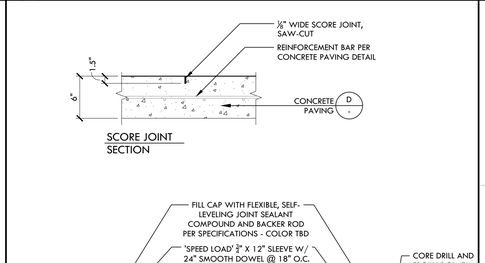
SYNTHETIC TURF CONNECTION



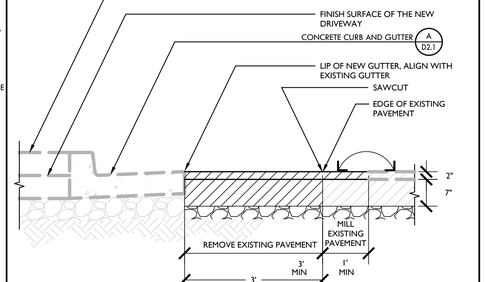
SYNTHETIC TURF SECTION

NOTES:
1. REFER TO SYNTHETIC TURF NOTES, DETAIL A, THIS SHEET.

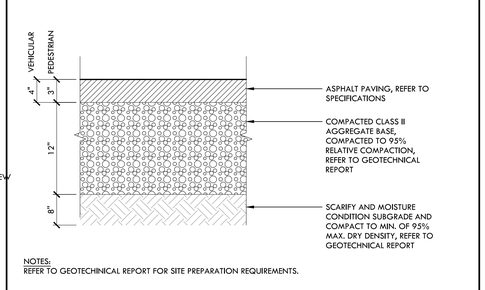
G SYNTHETIC TURF WITH SHOCK PAD — NTS



F CONCRETE JOINTS — NTS

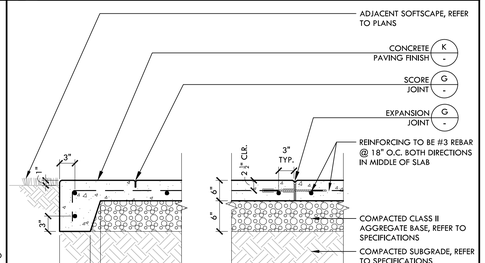


E ASPHALT CONCRETE CONFORM — NTS



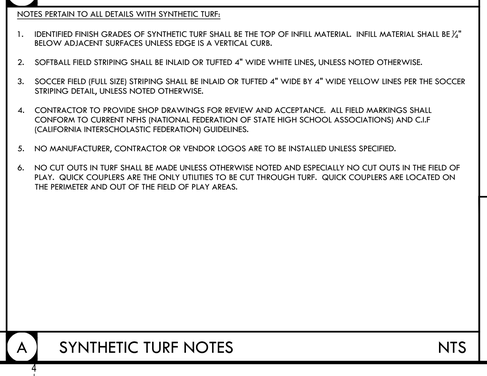
NOTES:
REFER TO GEOTECHINICAL REPORT FOR SITE PREPARATION REQUIREMENTS.

D ASPHALT PAVING — NTS



NOTE:
PROVIDE SCORE JOINTS 5' O.C. AND 10' O.C. FOR EXPANSION JOINT UNLESS OTHERWISE NOTED.

C CONCRETE PAVING FINISH — NTS



NOTE:
PROVIDE SCORE JOINTS 5' O.C. AND 10' O.C. FOR EXPANSION JOINT UNLESS OTHERWISE NOTED.

B CONCRETE PAVING — NTS

NOTES PERTAIN TO ALL DETAILS WITH SYNTHETIC TURF:

1. IDENTIFIED FINISH GRADES OF SYNTHETIC TURF SHALL BE THE TOP OF INFILL MATERIAL. INFILL MATERIAL SHALL BE ½" BELOW ADJACENT SURFACES UNLESS EDGE IS A VERTICAL CURB.
2. SOFTBALL FIELD STRIPING SHALL BE INLAID OR TUFTED 4" WIDE WHITE LINES, UNLESS NOTED OTHERWISE.
3. SOCCER FIELD (FULL SIZE) STRIPING SHALL BE INLAID OR TUFTED 4" WIDE BY 4" WIDE YELLOW LINES PER THE SOCCER STRIPING DETAIL, UNLESS NOTED OTHERWISE.
4. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR REVIEW AND ACCEPTANCE. ALL FIELD MARKINGS SHALL CONFORM TO CURRENT NFHS (NATIONAL FEDERATION OF STATE HIGH SCHOOL ASSOCIATIONS) AND C.I.F (CALIFORNIA INTERSCHOLASTIC FEDERATION) GUIDELINES.
5. NO MANUFACTURER, CONTRACTOR OR VENDOR LOGOS ARE TO BE INSTALLED UNLESS SPECIFIED.
6. NO CUT OUTS IN TURF SHALL BE MADE UNLESS OTHERWISE NOTED AND ESPECIALLY NO CUT OUTS IN THE FIELD OF PLAY. QUICK COUPLERS ARE THE ONLY UTILITIES TO BE CUT THROUGH TURF. QUICK COUPLERS ARE LOCATED ON THE PERIMETER AND OUT OF THE FIELD OF PLAY AREAS.

A SYNTHETIC TURF NOTES — NTS

REGISTERED LANDSCAPE ARCHITECT
DEREK MCKEE
No. 4148
Signature
EXPIRATION DATE: DEC. 2022
STATE OF CALIFORNIA

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LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
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Santa Clara, CA 95050
tel: 408.985.7300
fax: 408.985.7260
www.VerdeDesigninc.com

CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

CONSTRUCTION DETAILS

Approved by: MARIA ESTHER CARRANZA RODRIGUEZ — Date:

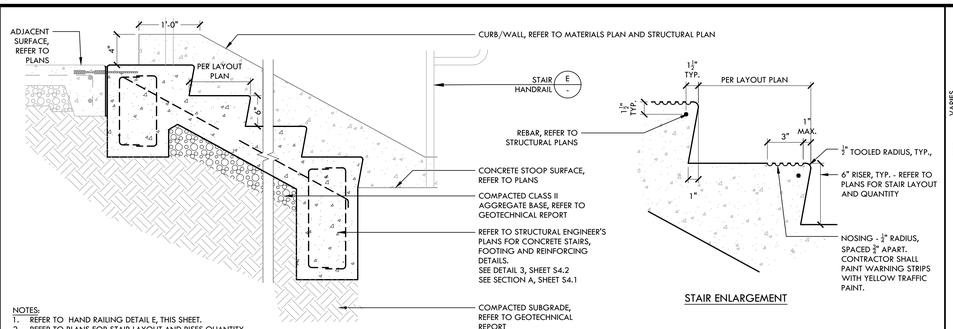
Designed by: — Drawn by: VERDE — Checked by: TY/DM — Job No. 2106300 — Scale 1"=20'-0" — SHEET D2.2 — X of 106

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

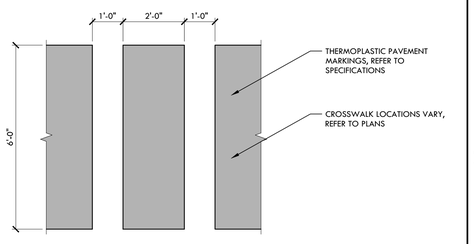
DRAWING NAME: Y:\Projects-SC\2021\2106300 - Watsonville Ramsay Park Improvements\cad_DTL-CON_2.dwg
PLOT DATE: 07-01-22 PLOTTED BY: station78

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES
0 1 2 3 4



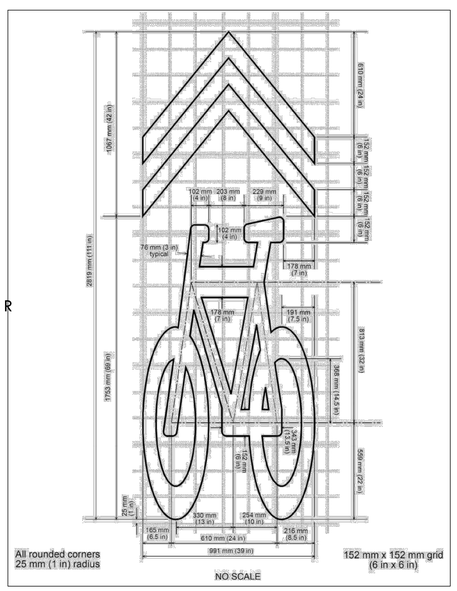
NOTES:
1. REFER TO HAND RAILING DETAIL E, THIS SHEET.
2. REFER TO PLANS FOR STAIR LAYOUT AND RISES QUANTITY.

T STAIRS NTS



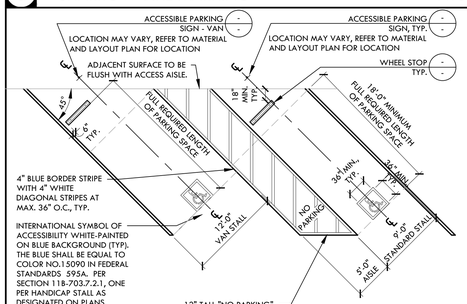
NOTE:
1. SPACES BETWEEN MARKINGS MUST BE PLACED IN WHEEL TRACKS OF EACH LANE.
2. SPACINGS NOT TO EXCEED 2.5 TIMES WIDTH OF LONGITUDINAL LINE.
3. ALL CROSSWALK MARKINGS MUST BE WHITE, REFER TO SPECIFICATIONS.

S CROSSWALK STRIPING NTS



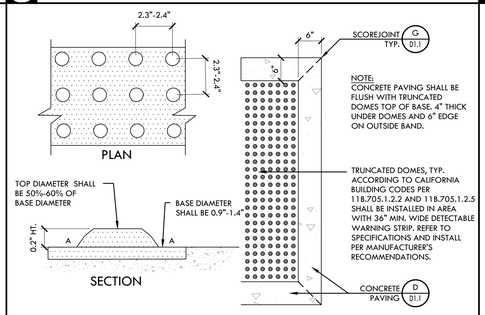
NOTE:
1. REFER TO SPECIFICATIONS FOR ASPHALT PAINT MATERIAL AND MORE INFORMATION.

Q SHARROW BIKE MARKING NTS

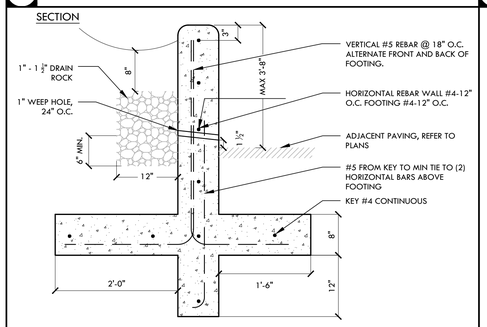


P ACCESSIBLE PARKING STALL - 45 DEGREE NTS

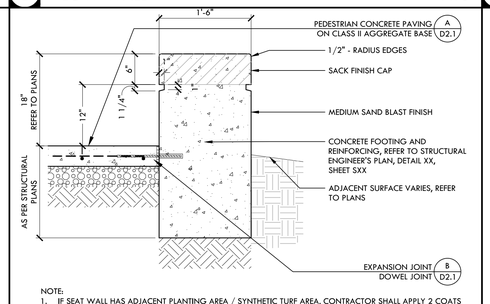
N ADA PARKING STALL NTS



M TRUNCATED DOMES NTS

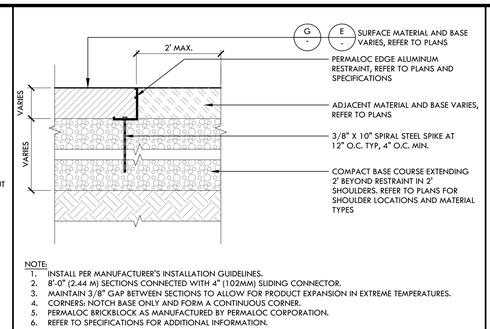


L LOW WALL NTS



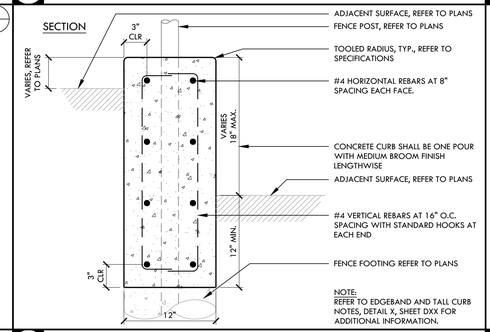
NOTE:
1. IF SEAT WALL HAS ADJACENT PLANTING AREA / SYNTHETIC TURF AREA, CONTRACTOR SHALL APPLY 2 COATS COAL - TAR BASED WATER PROOFING TO PORTION OF WALL BELOW GRADE.
2. AMENDED SOIL AND INSTALL ROOT BARRIER, REFER TO PLANTING PLAN AND SPECIFICATIONS.

K SEAT WALL - 18" TALL NTS



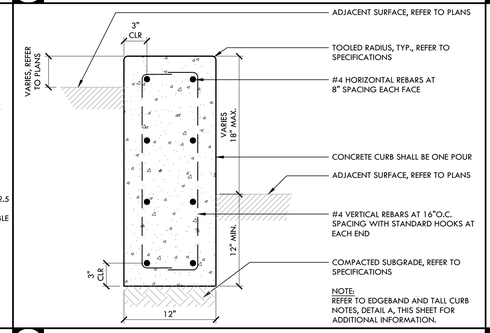
NOTE:
1. INSTALL PER MANUFACTURER'S INSTALLATION GUIDELINES.
2. 8'-0" (2.44 M) SECTIONS CONNECTED WITH 4" (102MM) SLIDING CONNECTOR.
3. MAINTAIN 3/8" GAP BETWEEN SECTIONS TO ALLOW FOR PRODUCT EXPANSION IN EXTREME TEMPERATURES.
4. CORNERS: NOTCH BASE ONLY AND FORM A CONTINUOUS CORNER.
5. PERMALOC BRICKBLOCK AS MANUFACTURED BY PERMALOC CORPORATION.
6. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

J METAL EDGING - PERMALOC AE2 NTS



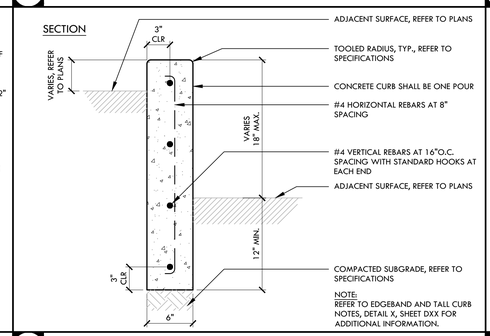
NOTE:
REFER TO EDGEBAND AND TALL CURB NOTES, DETAIL X, SHEET DXX FOR ADDITIONAL INFORMATION.

I 12" WIDE TALL CURB WITH FENCE NTS



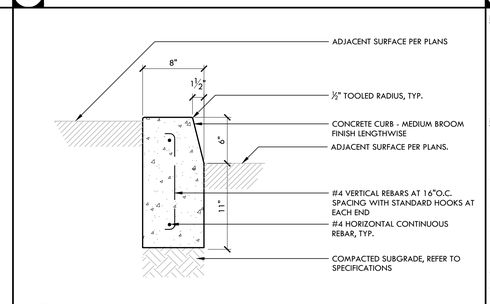
NOTE:
REFER TO EDGEBAND AND TALL CURB NOTES, DETAIL A, THIS SHEET FOR ADDITIONAL INFORMATION.

H 12" WIDE TALL CURB NTS



NOTE:
REFER TO EDGEBAND AND TALL CURB NOTES, DETAIL X, SHEET DXX FOR ADDITIONAL INFORMATION.

G 6" WIDE TALL CURB NTS

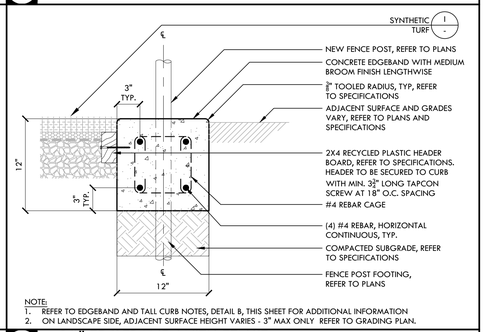


NOTE:
REFER TO EDGEBAND AND TALL CURB NOTES, DETAIL A, THIS SHEET FOR ADDITIONAL INFORMATION

F 6" CURB NTS

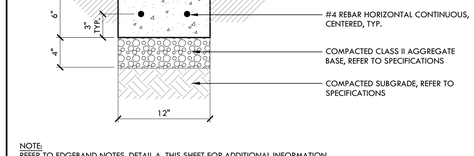
INCLUDE ROLLED CURB DETAIL

E



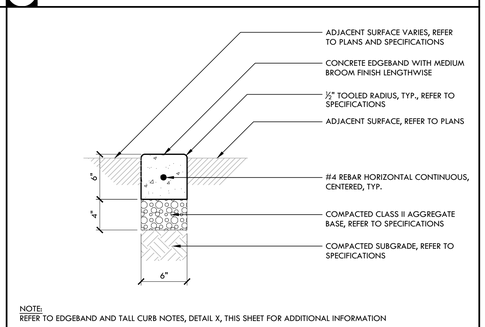
NOTE:
1. REFER TO EDGEBAND AND TALL CURB NOTES, DETAIL B, THIS SHEET FOR ADDITIONAL INFORMATION
2. ON LANDSCAPE SIDE, ADJACENT SURFACE HEIGHT VARIES - 3" MAX ONLY REFER TO GRADING PLAN.

D 12" EDGEBAND WITH FENCE AT SYNTHETIC TURF NTS



NOTE:
REFER TO EDGEBAND NOTES, DETAIL A, THIS SHEET FOR ADDITIONAL INFORMATION

C 12" CONCRETE EDGEBAND NTS



NOTE:
REFER TO EDGEBAND AND TALL CURB NOTES, DETAIL X, THIS SHEET FOR ADDITIONAL INFORMATION

B 6" EDGEBAND NTS

NOTES PERTAIN TO ALL EDGEBAND AND CURB DETAILS:
1. FOR EDGEBANDS AND CURBS WITH FENCING, INSTALL EXPANSION JOINTS AT ALL CORNERS, BEGINNINGS, AND ENDINGS OF RADII, AND AT ALL FENCE POSTS. INSTALL SCORE JOINTS AT 5' O.C. AND OR EVENLY SPACED AND CENTERED BETWEEN POSTS.
2. FOR EDGEBAND AND CURBS WITHOUT FENCING, INSTALL SCORE JOINTS AT 10' O.C. SPACING AND FIBER EXPANSION JOINTS EVERY 20' ON STRAIGHT RUNS. ON CURVED RUNS, FIBER EXPANSION JOINTS SHALL BE SPACED 10' O.C., WITH ALTERNATING SCORE JOINTS AT 5' O.C. SPACING.
3. ALL EXPANSION JOINTS SHALL BE SEALED, PER SPECIFICATIONS.

NOTES PERTAIN TO ALL TALL CURB DETAILS:
1. PROVIDE EXPANSION JOINTS AT 16' O.C. SPACING, CENTERED BETWEEN FENCE POSTS.
2. PROVIDE EXPANSION JOINTS AT EACH LOCATION WHERE AN ELEVATION STEP OCCURS BETWEEN CHANGING CURB/EDGEBAND TYPES.
3. AT EXPANSION JOINTS, PROVIDE A 24" LONG #4 DOWEL AT EACH CURB HORIZONTAL REBAR, CENTERED ON THE JOINT, AS PER DETAIL.
4. EXPANSION JOINTS SHALL BE INSTALLED WITH A ¾" CHAMFER BUILT INTO THE FORM WORK, IN ADDITION TO THE FIBER EXPANSION JOINT MATERIAL.
5. PROVIDE A CONTROL JOINT AT EACH FENCE POST. THE VERTICAL JOINT SHALL BE A ¾" CHAMFER BUILT INTO THE FORM WORK. THE HORIZONTAL JOINT, ALONG THE TOP OF CURB, SHALL BE A TOOLED SCORE JOINT, ALIGNED WITH AND MATCHING THE VERTICAL CHAMFER JOINT.
6. ALL EXPANSION JOINTS SHALL BE SEALED PER SPECIFICATION.
7. NO SCORE JOINTS ARE REQUIRED ON TALL CURBS, EXCEPT AS INDICATED AT EACH FENCE POST IN ITEM #5 ABOVE.

FINISHES:
EDGEBANDS AND CURBS: MEDIUM BROOM
WALL AND TALL CURBS: MEDIUM SAND BLAST - TOP AND SIDES

A EDGEBAND AND TALL CURB NOTES NTS

REGISTERED LANDSCAPE ARCHITECT — DEREK MCRAE — No. 4148 — Signature — EXPIRATION DATE: DEC. 2022 — STATE OF CALIFORNIA

VERDE DESIGN
LANDSCAPE ARCHITECTURE
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SPORT PLANNING & DESIGN
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Santa Clara, CA 95050
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www.VerdeDesigninc.com

CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

CONSTRUCTION DETAILS

Approved by: MARIA ESTHER CARRANZA RODRIGUEZ — Date:

Designed by: — Drawn by: VERDE — Checked by: TY/DM — Job No. 2106300 — Scale 1"=20'-0"

SHEET D2.3 X of 106

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

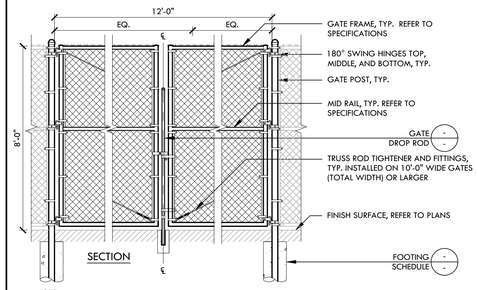
ALL IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION WITHOUT THE WRITTEN PERMISSION OF VERDE DESIGN, INC. ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY OR DISCLOSED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE PRIOR WRITTEN PERMISSION OF VERDE DESIGN, INC.

DRAWING NAME: Y:\Projects-SC\2021\2106300 - Watsonville Ramsay Park Improvements\cad_DTL-CON_2.dwg
PLOT DATE: 07-01-22 PLOTTED BY: stotin78

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4

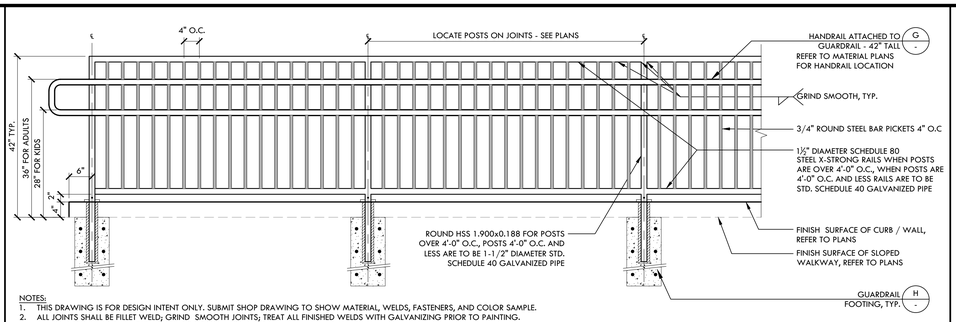
ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE PRIOR WRITTEN PERMISSION OF VERDE DESIGN, INC.

T



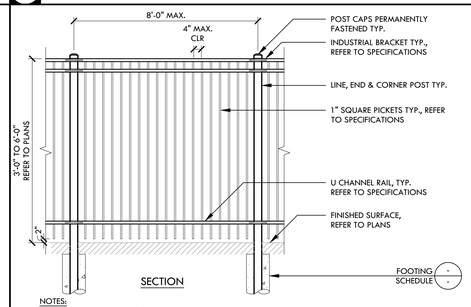
NOTE:
1. REFER TO GENERAL FENCE & GATE NOTES, DETAIL X, SHEET DX.X.

O — 8' TALL - DOUBLE SWING GATE — NTS

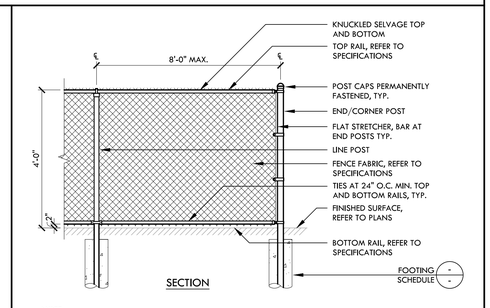


NOTES:
1. THIS DRAWING IS FOR DESIGN INTENT ONLY. SUBMIT SHOP DRAWING TO SHOW MATERIAL, WELDS, FASTENERS, AND COLOR SAMPLE.
2. ALL JOINTS SHALL BE FILLET WELD; GRIND SMOOTH JOINTS, TREAT ALL FINISHED WELDS WITH GALVANIZING PRIOR TO PAINTING.
3. ALL RAILINGS TO BE SHOP FABRICATED FOR FIELD INSTALLATION.
4. GUARDRAIL AND HANDRAIL SHALL BE GALVANIZED AND POWDER COATED WITH BLACK COLOR, TYP.

J — GUARDRAIL - 42" TALL — NTS

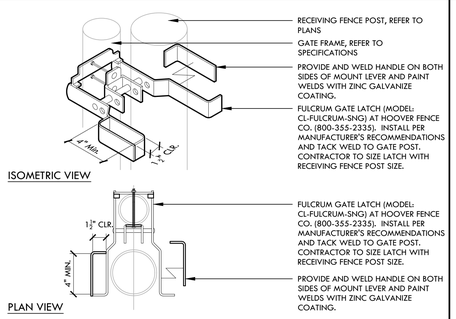


NOTES:
1. SEE GENERAL FENCE & GATE NOTES SHEET DX.X, DETAIL X.
2. ORNAMENTAL FENCING POWDER COATED (COLOR X), REFER TO SPECIFICATIONS.



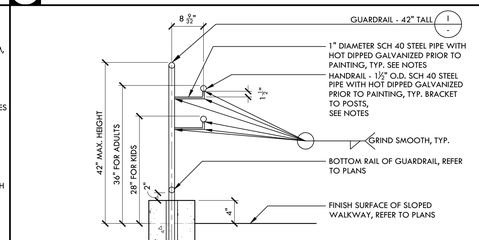
NOTE:
1. SEE GENERAL FENCE & GATE NOTES SHEET DX.X, DETAIL X.

S — GATE LATCH — NTS



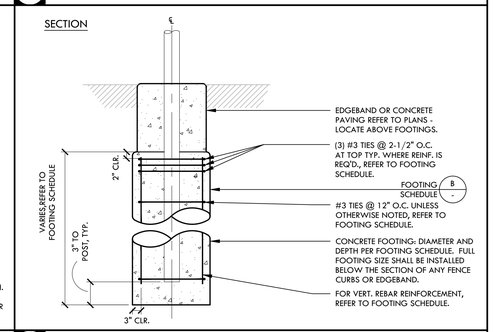
N — ACCESSIBLE PANIC BAR PULL HANDLE - CHAIN LINK FENCE — NTS

I — 3'-6' ORNAMENTAL FENCE (MAJESTIC) — NTS



NOTES:
1. THIS DRAWING IS FOR DESIGN INTENT ONLY. SUBMIT SHOP DRAWING TO SHOW MATERIAL, WELDS, FASTENERS AND COLOR SAMPLE.
2. ALL PIPE TO BE SCHEDULE 40 WITH 1/4" THICKNESS, & SHALL BE GALVANIZED AND BLACK POWDER COATED FINISH.
3. ALL PIPE TO BE PAINTED PER SPECIFICATIONS.
4. ALL JOINTS SHALL BE FILLET WELD; GRIND SMOOTH JOINTS; TREAT ALL FINISHED WELDS WITH GALVANIZING PRIOR TO PAINTING.
5. ALL RAILINGS TO BE SHOP FABRICATED FOR FIELD INSTALLATION.

D — 4' TALL CHAIN LINK FENCE — NTS

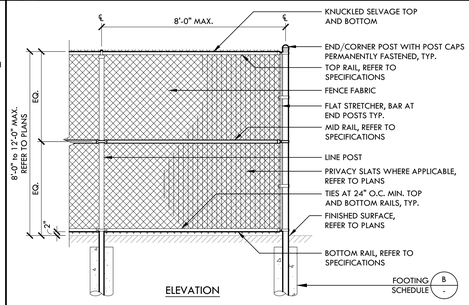


R — GATE - DROP ROD — NTS

M — 5' TALL X 4' ORNAMENTAL SWING GATE WITH PANIC HARDWARE — NTS

NOTE:
1. REFER TO GENERAL FENCE & GATE NOTES, DETAIL X, SHEET DX.X.

H — HANDRAIL ATTACHED TO GUARDRAIL - 42" TALL — NTS



NOTE:
1. SEE GENERAL FENCE & GATE NOTES THIS SHEET, DETAIL A.

C — FENCE FOOTING PROFILE — NTS

FENCE POST & FOOTING SCHEDULE

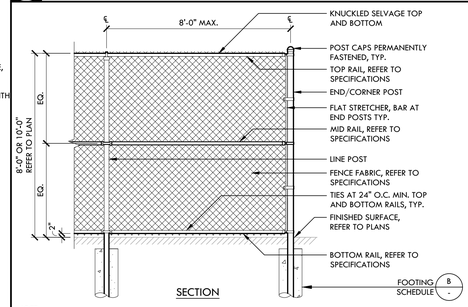
DESCRIPTION	HEIGHT	LINE POST (STD. GALV. PIPE)	CORNER/END POST (STD. GALV. PIPE)	FOOTING DIMENSIONS
CHAIN LINK FENCE	42"	1⅞" DIA. STD.	2" DIA. STD.	12" DIA. X 3'-0" DEEP
CHAIN LINK FENCE	48"	1⅞" DIA. STD.	2" DIA. STD.	12" DIA. X 3'-0" DEEP

GATE POST FOOTING SCHEDULE

DESCRIPTION	SIZE (H x L)	GATE POST (STD. GALV. PIPE)	FOOTING DIMENSIONS
48" TALL X 5' WIDE CHAIN LINK SWING GATE WITH PANIC HARDWARE	48" X 5'	2"	12" DIA. X 3'-0" DEEP
48" TALL X 8' WIDE CHAIN LINK SWING VEHICULAR GATE (2 - 4' WIDE GATE PANELS)	48" X 8'	2"	12" DIA. X 3'-0" DEEP

NOTES:
1. REFER TO PLANS & DETAILS FOR POST LOCATIONS AND TOP OF POST FOOTING.
2. REFER TO FENCE FOOTING DETAIL, DETAIL C, THIS SHEET
3. THE PIPE SIZES INDICATED ARE FOR NPS, REFER TO SPECIFICATIONS.

G — 8' TALL CHAIN LINK FENCE WITH SLAT — NTS



NOTE:
1. SEE GENERAL FENCE & GATE NOTES, DETAIL A, THIS SHEET.

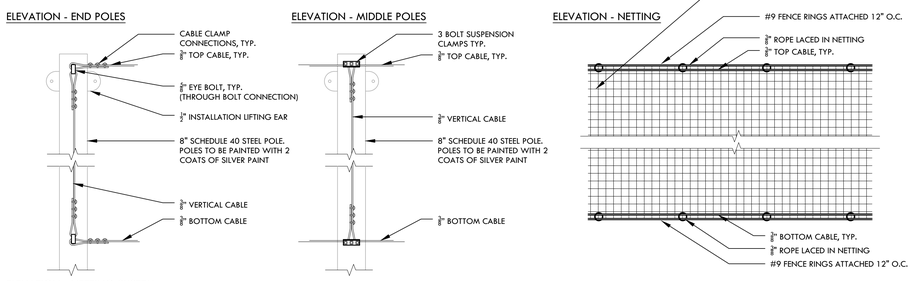
B — FOOTING SCHEDULE — NTS

NOTES PERTAIN TO ALL GATE AND FENCE DETAILS:

1. PLACE FENCE FABRIC ON FIELD SIDE. FENCE FABRIC ON PERIMETER FENCING IS TO BE ON FIELD SIDE.
2. BOTTOM RAIL TO BE 2" FROM FINISH GRADE, FENCE FABRIC BOTTOM EDGE TO BE 1" FROM FINISH GRADE.
3. SUBMIT SHOP DRAWINGS FOR ACCEPTANCE BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
4. GATES IN PATH OF TRAVEL MUST MEET ENTRY AND EXIT DOOR REQUIREMENTS.
5. ALL PEDESTRIAN SWING GATES SHALL RECEIVE AN ACCESSIBLE PANIC BAR WITH OPPOSITE HAND LEVER. SEE DETAIL G AND H , THIS SHEET. PEDESTRIAN GATES ARE NOTED BY HAVING A KICK PLATE ATTACHMENT.
6. REFER TO PLANS FOR EDGEBAND TYPE UNLESS OTHERWISE NOTED.
7. REFER TO DETAIL K FOR FENCING WITH CURBS AND CHANGE IN ELEVATIONS.
8. FOR GATES WITH DROP BAR, PROVIDE 8" DEEP FOOTING WITH SCH. 40 STEEL PIPE SLEEVE. CANE STOP TO GO DOWN 4" INTO CONCRETE IN CLOSED POSITION AND OPEN POSITION.
9. TACK WELD HINGES TO POSTS AT GATES AND TACK WELD CAPS.
10. DOUBLE SWING GATES THAT ARE INLINE WITH FENCING, GATE POSTS SHALL BE OFFSET FROM THE FENCE TO ALLOW SWING GATES TO OPEN A FULL 180° BACK AGAINST THE FENCE PER PLAN LAYOUT.
11. THE PIPE SIZES INDICATED ARE NPS FOR: STANDARD GALV. PIPE SCHEDULE 40.
12. REFER TO FIRE ACCESS PLAN, SHEET L2.2, FOR KNOX BOX INSTALLATION LOCATIONS AT PEDESTRIAN AND VEHICULAR GATES. KNOX BOXES TO BE INSTALLED PER CURRENT CFC STANDARDS.
13. FENCE FABRIC SHALL BE IN A UNIFORM, SINGULAR PLAIN AT FACE OF FENCE POST ON FIELD SIDE REGARDLESS OF POST DIAMETER. CONTRACTOR TO USE APPROPRIATE FITTINGS TO ENSURE PROPER FINISH.

P — 25'-0" TALL PROTECTIVE NETTING WITH 8' CHAIN LINK FENCE — NTS

NOTES:
1. POLE = 10"DIA. X SCHEDULE 40 MIN. YIELD STRENGTH = 35KSI
2. MAX. SPACING = 46' O.C.
3. STRUCTURAL STEEL = ASTM A-36
4. STEEL PIPE /TUBE = ASTM A-53 GRADE B
5. BOLTS = A-307
6. WIRE ROPE CLAMPS PER FEDERAL SPC FF-C-450, TYPE 1, CLASS 1
7. CABLE = ASTM A-603 6X19 WIRE ROPE
8. NETTING FABRICATOR SPORTSFIELD SPECIALTIES



F — 8' -10' TALL CHAIN LINK FENCE — NTS

A — GATE AND FENCE NOTES — NTS

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4

DRAWING NAME: Y:\Projects-SC\2021\2106300 - Watsonville Ramsay Park Improvements\cad_DTL-CON_2.dwg
PLOT DATE: 07-01-22 PLOTTED BY: stotin78

REGISTERED LANDSCAPE ARCHITECT
DEREK MOREL
No. 4148
Signature
EXPIRATION DATE: DEC. 2022
STATE OF CALIFORNIA

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
2455 The Alameda
Santa Clara, CA 95050
tel: 408.985.7200
fax: 408.985.7260
www.VerdeDesigninc.com

CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

CONSTRUCTION DETAILS

Approved by MARIA ESTHER CARRANZA RODRIGUEZ Date

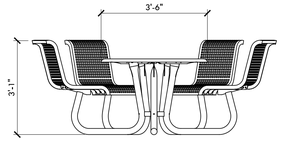
Designed by
Drawn by VERDE
Checked by TY/DM
Job No. 2106300
Scale 1"=20'-0"
SHEET D2.4
X of 106

VERDE PROJECT NO. 2106300

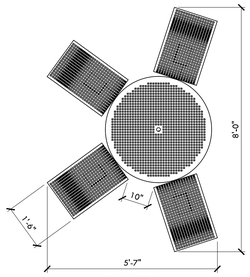
WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL



SIDE VIEW A



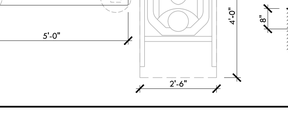
SIDE VIEW B



PLAN VIEW

NOTE:
1. SECURE SITE FURNISHINGS TO PLAZA CONCRETE PAVING PER MANUFACTURERS RECOMMENDATIONS.

R WABASH VALLEY 4-SEATER ADA PICNIC TABLE NTS



SIDE VIEW A

SIDE VIEW B

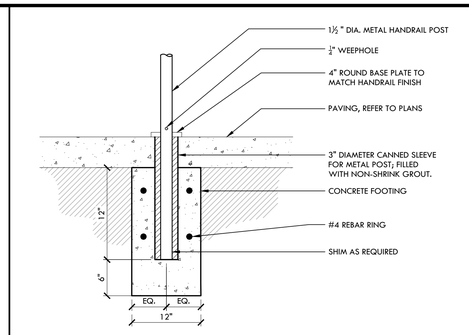
PLAN VIEW

NOTE:
1. SECURE SITE FURNISHINGS TO PLAZA CONCRETE PAVING PER MANUFACTURERS RECOMMENDATIONS.

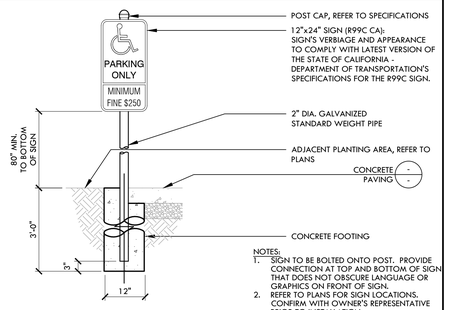
Q WABASH VALLEY 5-SEATER PICNIC TABLE NTS

NOTE:
1. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
2. REFER TO SPECIFICATIONS FOR MORE INFORMATION.

P ADA ACCESSIBLE PICNIC TABLE NTS

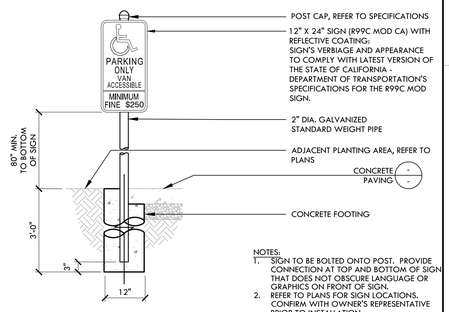


O RAILING FOOTING NTS



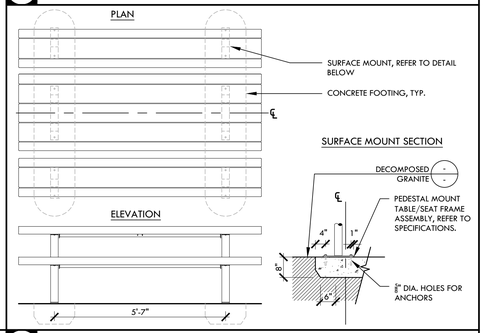
NOTES:
1. SIGN TO BE BOLTED ONTO POST. PROVIDE CONNECTION AT TOP AND BOTTOM OF SIGN THAT DOES NOT OBSCURE LANGUAGE OR GRAPHICS ON FRONT OF SIGN.
2. REFER TO PLANS FOR SIGN LOCATIONS. CONFIRM WITH OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.

N ACCESSIBLE PARKING SIGN NTS



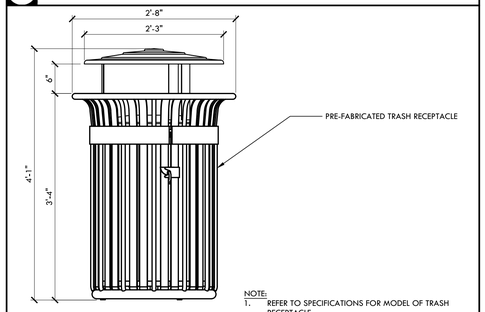
NOTES:
1. SIGN TO BE BOLTED ONTO POST. PROVIDE CONNECTION AT TOP AND BOTTOM OF SIGN THAT DOES NOT OBSCURE LANGUAGE OR GRAPHICS ON FRONT OF SIGN.
2. REFER TO PLANS FOR SIGN LOCATIONS. CONFIRM WITH OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.

M ACCESSIBLE PARKING SIGN - VAN NTS



L PICNIC TABLE NTS

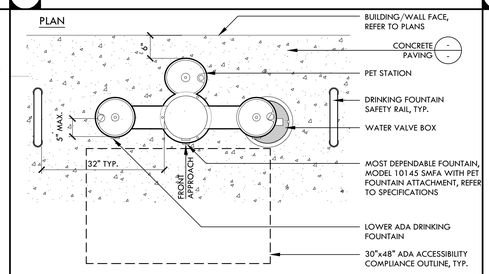
PET WASTE STATION 1/2" = 1'-0"



NOTE:
1. REFER TO SPECIFICATIONS FOR MODEL OF TRASH RECEPTACLE.
2. INSTALL PER MANUFACTURERS RECOMMENDATIONS.

D TRASH & RECYCLING RECEPTACLE NTS

I



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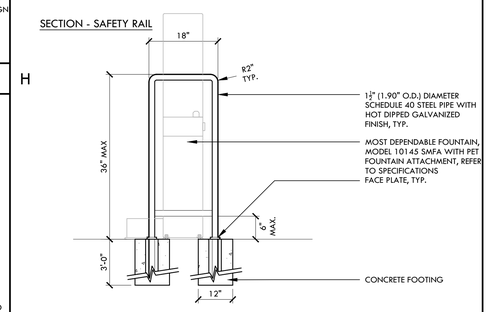
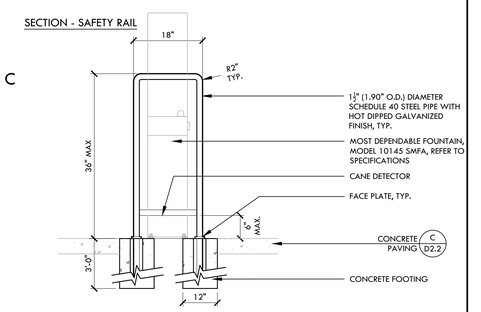


G

NOTES:
1. DRINKING FOUNTAIN MODEL 10145 SMFA WITH BOTTLE FILLER AND PET STATION BY MOST DEPENDABLE FOUNTAINS, INC.
2. MEETS ADA REGULATIONS. ALL DRINKING FOUNTAINS TO BE INSTALLED CLEAR OF ACCESSIBLE PATH OF TRAVEL.
3. LOWER BOWL AND BOTTLE FILLER TO BE BUILT AT A FRONT APPROACH. CONTRACTOR TO COORDINATE WITH MANUFACTURER.
4. DRINKING FOUNTAIN TO HAVE POWDER COATED FINISH; COLOR: GREEN
5. ALL PIPE TO BE SCHEDULE 40 WITH .145" THICKNESS, & SHALL BE GALVANIZED FINISH.
6. ALL JOINTS SHALL BE ¼" FILLET WELD; GRIND SMOOTH JOINTS; TREAT ALL FINISHED WELDS WITH GALVANIZING.

F DRINKING FOUNTAIN WITH BOTTLE FILLER AND PET STATION NTS

C



B

NOTES:
1. DRINKING FOUNTAIN MODEL 10145 SMFA WITH BOTTLE FILLER BY MOST DEPENDABLE FOUNTAIN.
2. MEETS ADA REGULATIONS. ALL DRINKING FOUNTAINS TO BE INSTALLED CLEAR OF ACCESSIBLE PATH OF TRAVEL.
3. LOWER BOWL AND BOTTLE FILLER TO BE BUILT AT A FRONT APPROACH. CONTRACTOR TO COORDINATE WITH MANUFACTURER.
4. DRINKING FOUNTAIN TO HAVE POWDER COATED FINISH; COLOR: BLACK.
5. ALL PIPE TO BE SCHEDULE 40 WITH .145" THICKNESS, & SHALL BE GALVANIZED FINISH.
6. ALL JOINTS SHALL BE ¼" FILLET WELD; GRIND SMOOTH JOINTS; TREAT ALL FINISHED WELDS WITH GALVANIZING.

A DRINKING FOUNTAIN WITH BOTTLE FILLER NTS

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES
0 1 2 3 4

REGISTERED LANDSCAPE ARCHITECT
DEREK MOBLE
No. 4148
Signature
EXPIRATION DATE: DEC. 2022
STATE OF CALIFORNIA

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
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Santa Clara, CA 95050
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fax: 408.985.7260
www.VerdeDesigninc.com

CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

CONSTRUCTION DETAILS

Approved by MARIA ESTHER CARRANZA RODRIGUEZ Date

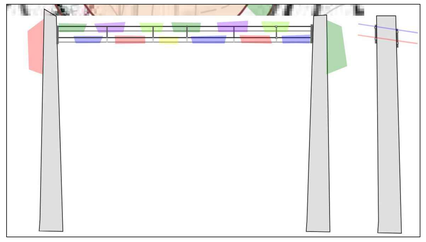
Designed by VERDE
Drawn by TY/DM
Checked by
Job No. 2106300
Scale 1"=20'-0"
SHEET D2.5
X of 106

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE PRIOR WRITTEN PERMISSION OF VERDE DESIGN, INC.

DRAWING NAME: Y:\Projects-SC\2021\2106300 - Watsonville Ramsay Park Improvements\cad_DTL-CON_2.dwg
PLOT DATE: 07-01-22 PLOTTED BY: stotin78



CONCEPT ONLY

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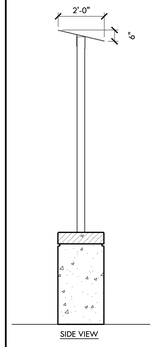
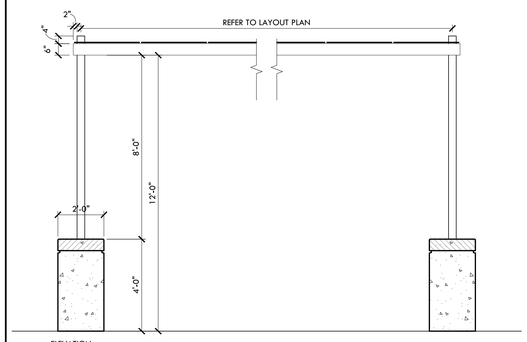


SIDE VIEW

INSERT ENLARGEMENT DETAILS

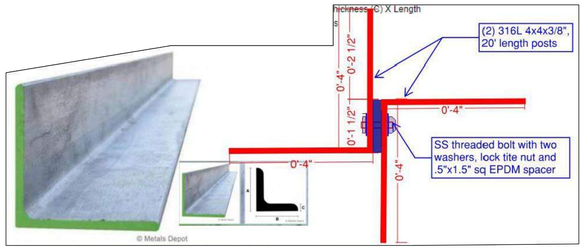


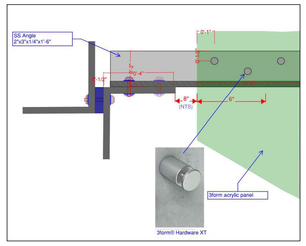
ELEVATION

INSERT ENLARGEMENT DETAILS

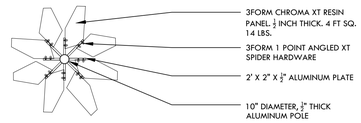
NTS

D ENTRY PORTAL ART SCULPTURE NTS

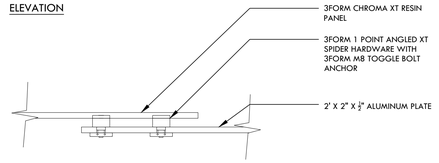




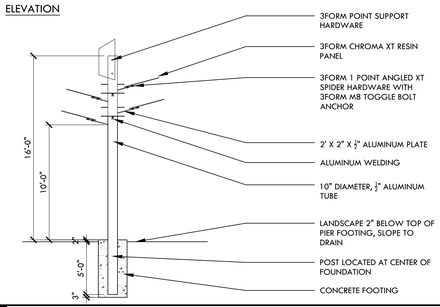
PLAN VIEW

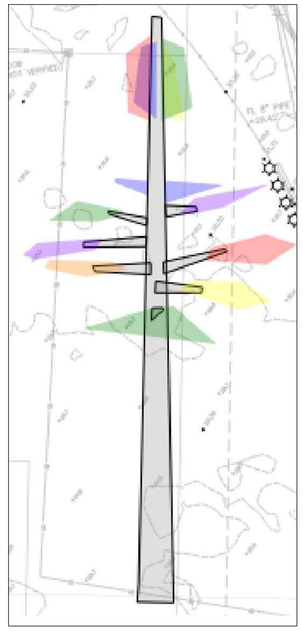


ELEVATION

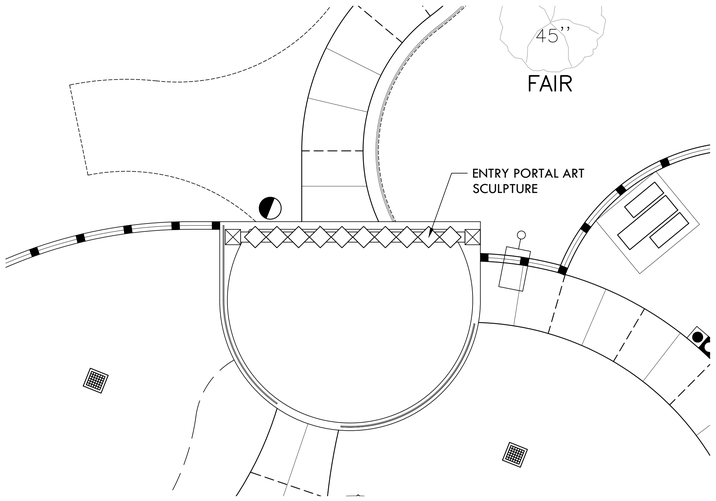


ELEVATION

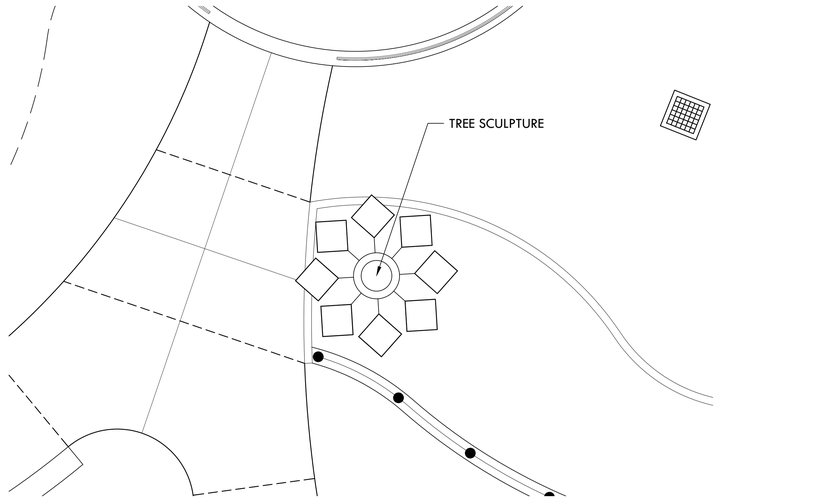




B RESIN TREE SCULPTURE NTS



C ENTRY PORTAL - PLAN VIEW



A ENTRY PORTAL - PLAN VIEW NTS

REGISTERED LANDSCAPE ARCHITECT
DEREK MCREE
No. 4148
Signature
EXPIRATION DATE: DEC. 2022
STATE OF CALIFORNIA

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
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www.VerdeDesignInc.com

CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

CONSTRUCTION DETAILS

Approved by _____ Date _____

MARIA ESTHER CARRANZA RODRIGUEZ

Designed by _____ Job No. 2106300
Drawn by VERDE
Checked by TY/DM
Scale N/A

SHEET D2.6
X of 106

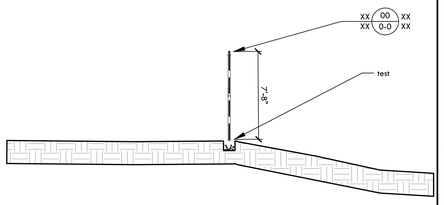
VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

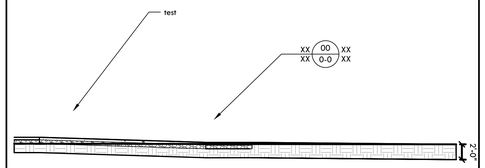
ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE PRIOR WRITTEN PERMISSION OF VERDE DESIGN, INC.

DRAWING NAME: Y:\Projects-SC\2021\2106300 - Watsonville Ramsay Park Improvements\cad_DTL-CON_2.dwg
PLOT DATE: 07-01-22 PLOTTED BY: station78

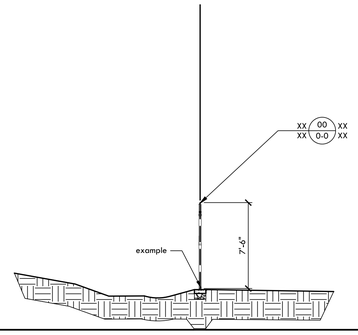
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4



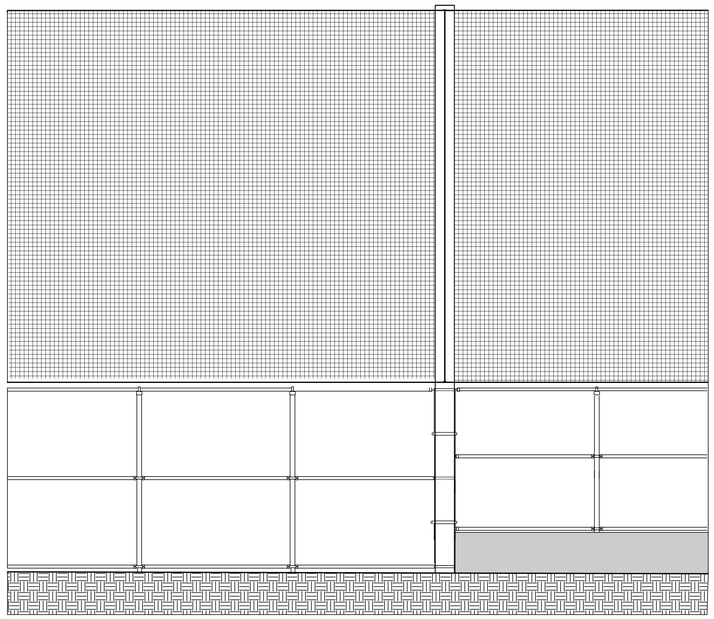
F SECTION 5 NTS



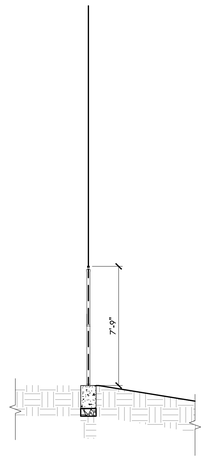
E SECTION 6 NTS



B SECTION 7 NTS



D NETTING ELEVATION A NTS



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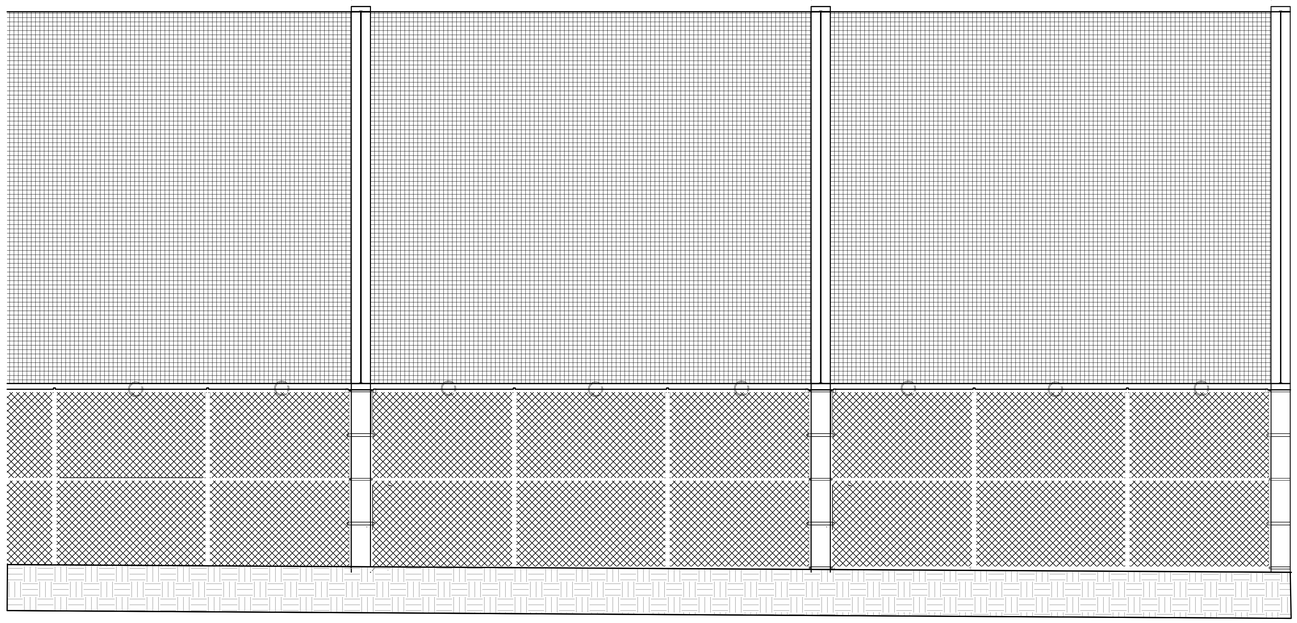

C XXX NTS

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REGISTERED LANDSCAPE ARCHITECT
DEREK MCKEE
No. 4148
Signature
EXPIRATION DATE: DEC. 2022
STATE OF CALIFORNIA

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
2455 The Alameda
Santa Clara, CA 95050
tel: 408.985.7200
fax: 408.985.7260
www.VerdeDesignInc.com

CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

CONSTRUCTION DETAILS

Approved by _____ Date _____

MARIA ESTHER CARRANZA RODRIGUEZ

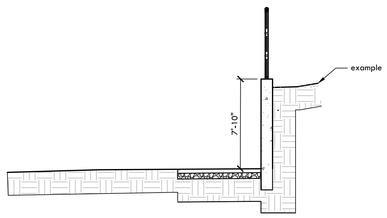
Designed by _____
Drawn by VERDE
Checked by TY/DM
Job No. 2106300
Scale 1"=20'-0"
SHEET D2.7
X of _____

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

DRAWING NAME: Y:\Projects-SC\2021\2106300 - Watsonville Ramsay Park Improvements\cad_DTL-CON_2.7.dwg
PLOT DATE: 07-01-22 PLOTTED BY: station78

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4

VERDE PROJECT NO. 2106300



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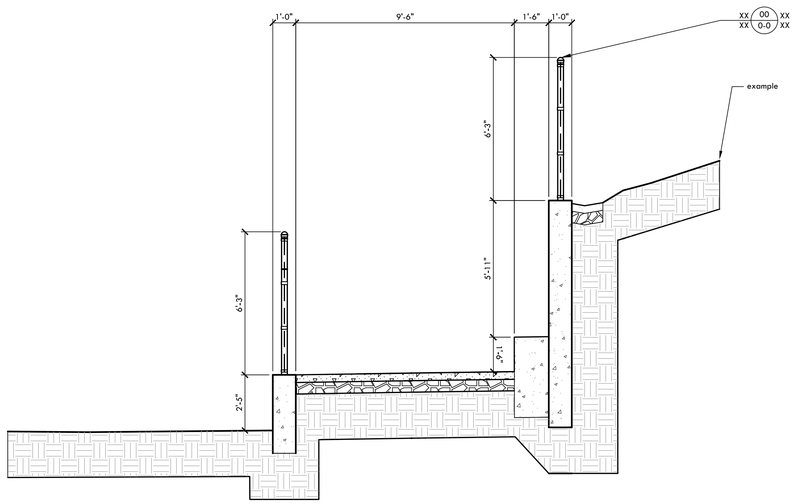

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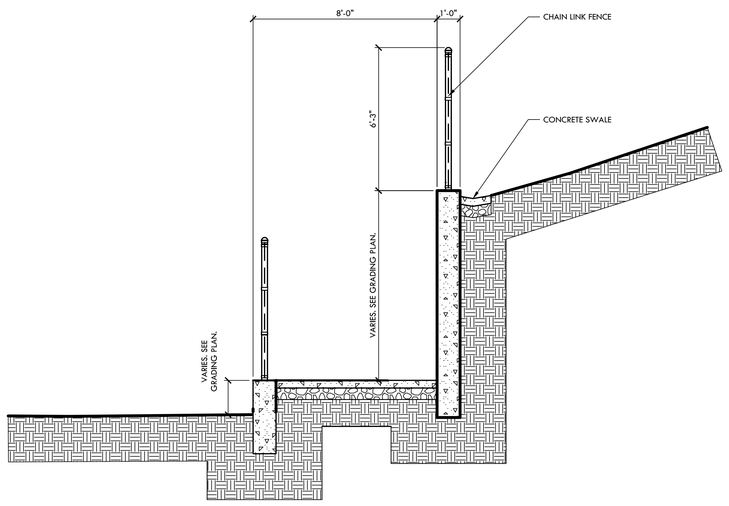
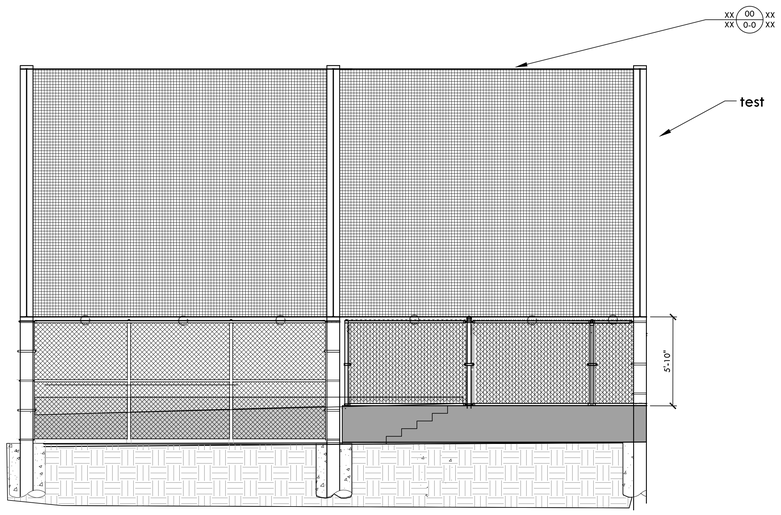
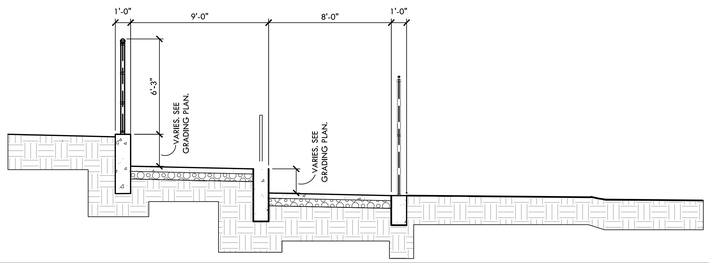


H SECTION 13 NTS



I ELEVATION 8 NTS



G SECTION 9 NTS

REGISTERED LANDSCAPE ARCHITECT
DEREK MCKEE
No. 4148
Signature
EXPIRATION DATE: DEC. 2022
STATE OF CALIFORNIA

VERDE DESIGN
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CIVIL ENGINEERING
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www.VerdeDesignInc.com

CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

CONSTRUCTION DETAILS

Approved by MARIA ESTHER CARRANZA RODRIGUEZ Date

Designed by
Drawn by VERDE
Checked by TY/DM
Job No. 2106300
Scale 1"=20'-0"
SHEET D2.8
X of

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

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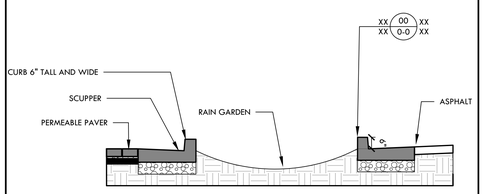
PLOT DATE: 07-01-22 PLOTTED BY: station78

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4



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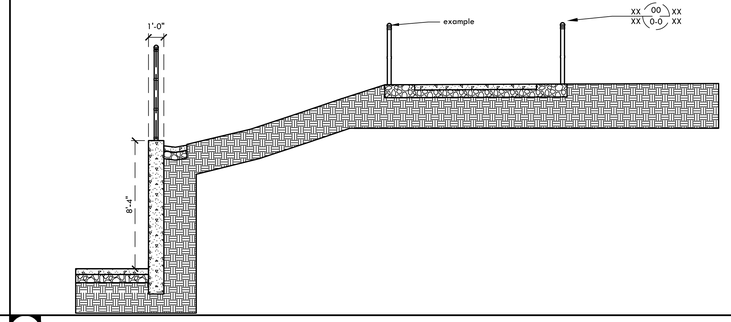
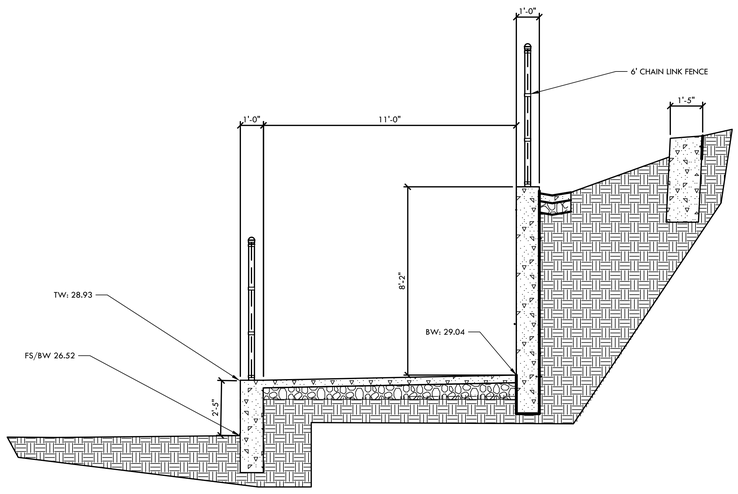


M SECTION 15 NTS



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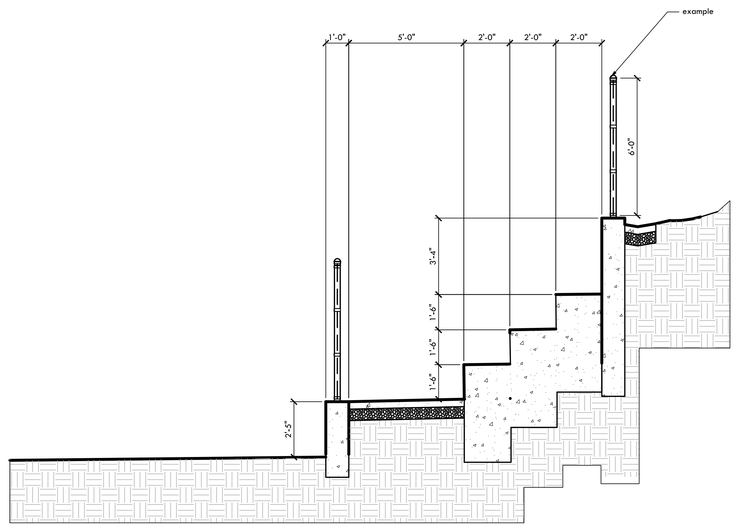

L SECTION 34 NTS

ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE PRIOR WRITTEN PERMISSION OF VERDE DESIGN, INC.

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PLOT DATE: 07-01-22 PLOTTED BY: station78

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4

REGISTERED LANDSCAPE ARCHITECT DEREK MCKEE No. 4148 Signature EXPIRATION DATE: DEC. 2022 STATE OF CALIFORNIA

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
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www.VerdeDesigninc.com

CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

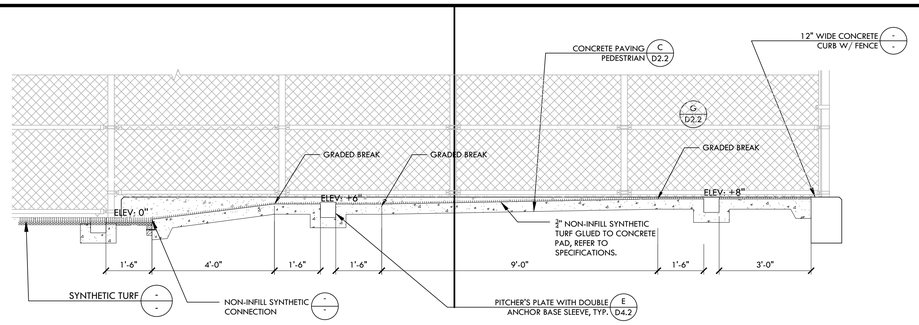
CONSTRUCTION DETAILS

Approved by MARIA ESTHER CARRANZA RODRIGUEZ Date

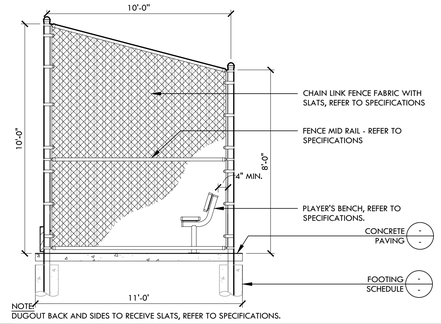
Designed by
Drawn by VERDE
Checked by TY/DM
Job No. 2106300
Scale 1"=20'-0"
SHEET D2.9
X of

VERDE PROJECT NO. 2106300

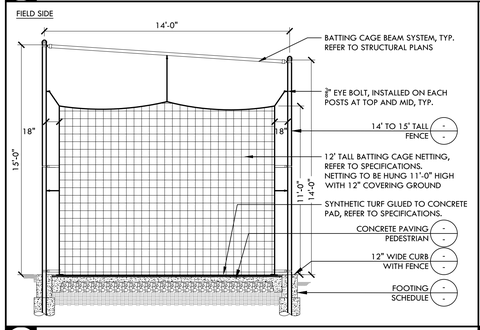
WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL



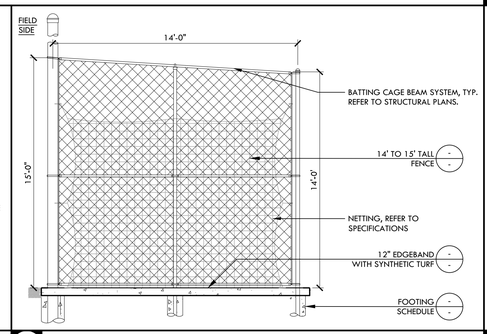
K 1ST BULLPEN/BATTING CAGE PITCHING MOUND - SECTION NTS



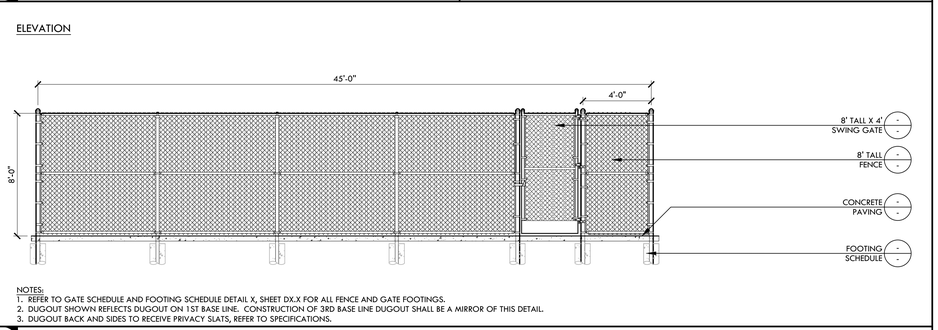
E CHAIN LINK DUGOUT - SECTION NTS



J BATTING CAGE - SECTION VIEW NTS

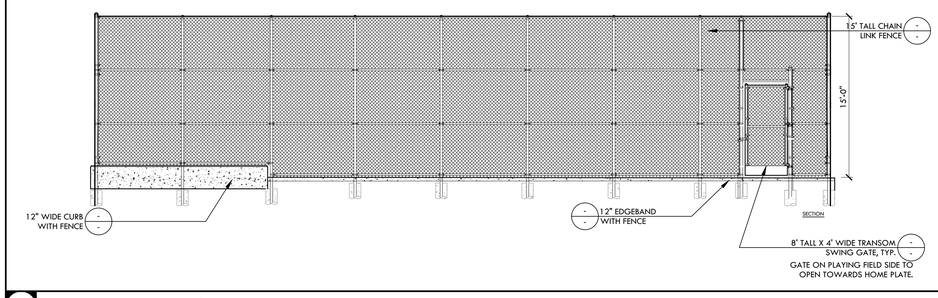


I BATTING CAGE - SIDE ELEVATION NTS

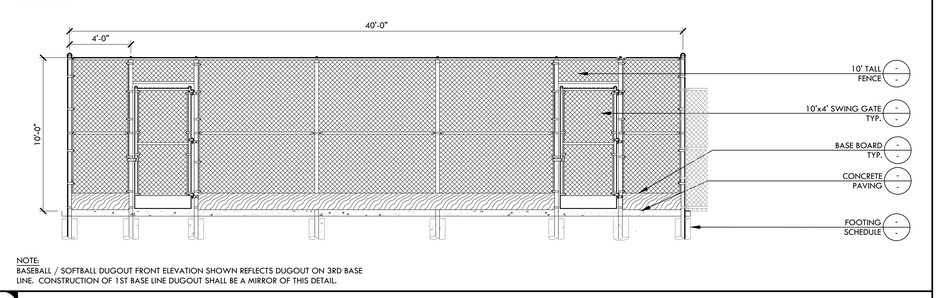


NOTES:
1. REFER TO GATE SCHEDULE AND FOOTING SCHEDULE DETAIL X, SHEET DX.X FOR ALL FENCE AND GATE FOOTINGS.
2. DUGOUT SHOWN REFLECTS DUGOUT ON 1ST BASE LINE. CONSTRUCTION OF 3RD BASE LINE DUGOUT SHALL BE A MIRROR OF THIS DETAIL.
3. DUGOUT BACK AND SIDES TO RECEIVE PRIVACY SLATS, REFER TO SPECIFICATIONS.

D CHAIN LINK DUGOUT - BACK ELEVATION NTS

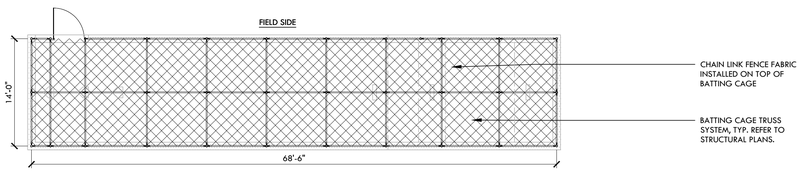


H 1ST BASE BULLPEN/BATTING CAGE - ELEVATION (FIELD SIDE) NTS

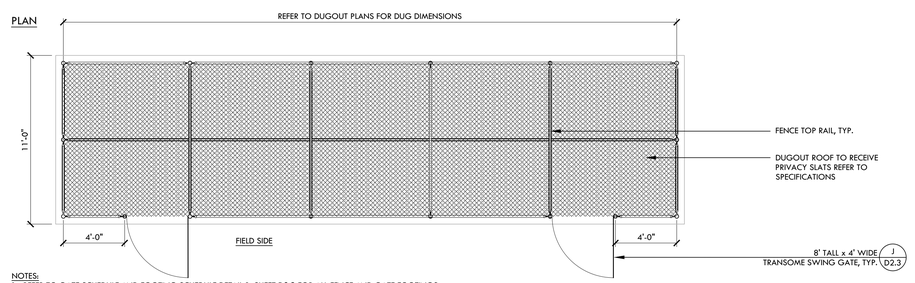


NOTE:
BASEBALL / SOFTBALL DUGOUT FRONT ELEVATION SHOWN REFLECTS DUGOUT ON 3RD BASE LINE. CONSTRUCTION OF 1ST BASE LINE DUGOUT SHALL BE A MIRROR OF THIS DETAIL.

C DUGOUT - FRONT ELEVATION NTS

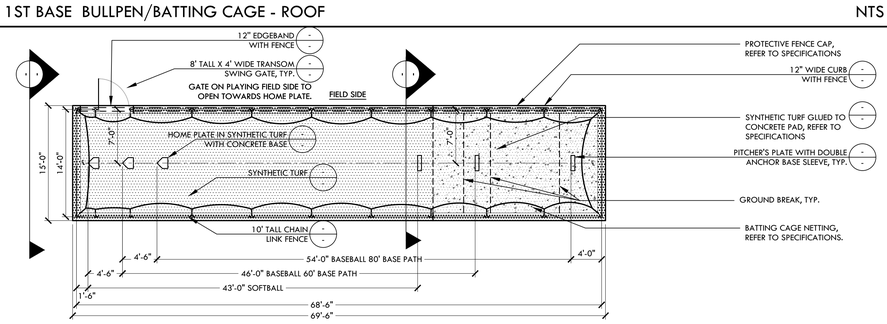


G 1ST BASE BULLPEN/BATTING CAGE - ROOF NTS

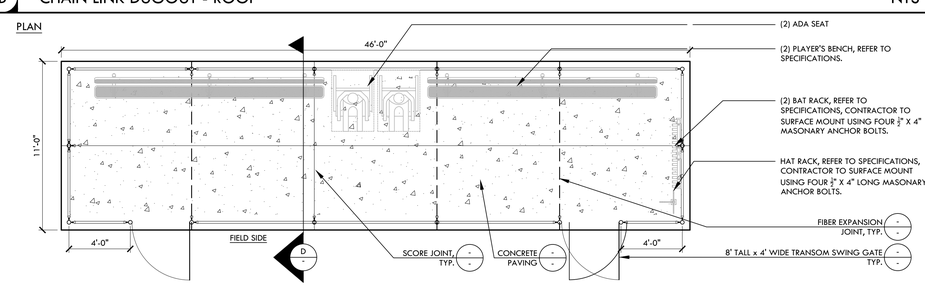


NOTES:
1. REFER TO GATE SCHEDULE AND FOOTING SCHEDULE DETAIL B, SHEET D2.3 FOR ALL FENCE AND GATE FOOTINGS.
2. ALL GATES ON FIELD SIDE SHALL OPEN TOWARD HOME PLATE.
3. DUGOUT SHOWN REFLECTS DUGOUT ON 1ST BASE LINE. CONSTRUCTION OF 3RD BASE LINE DUGOUT SHALL BE A MIRROR OF THIS DETAIL.

B CHAIN LINK DUGOUT - ROOF NTS



F 1ST BASE BULLPEN/BATTING CAGE - PLAN NTS



NOTES:
1. REFER TO GATE SCHEDULE AND FOOTING SCHEDULE DETAIL X, SHEET DX.X FOR ALL FENCE AND GATE FOOTINGS.
2. ALL GATES ON FIELD SIDE SHALL OPEN TOWARD HOME PLATE.
3. DUGOUT SHOWN REFLECTS DUGOUT ON 1ST BASE LINE. CONSTRUCTION OF 3RD BASE LINE DUGOUT SHALL BE A MIRROR OF THIS DETAIL.

A CHAIN LINK DUGOUT - PLAN NTS

REGISTERED LANDSCAPE ARCHITECT
DEREK MOREE
No. 4148
Signature
EXPIRATION DATE: DEC. 2022
STATE OF CALIFORNIA

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LANDSCAPE ARCHITECTURE
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CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

ATHLETIC DETAILS

Approved by _____ Date _____
MARIA ESTHER CARRANZA RODRIGUEZ

Designed by DL
Drawn by DL
Checked by TY/DM
Job No. 2106300
Scale 1"=20'-0"
SHEET D3.1
X of 106

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

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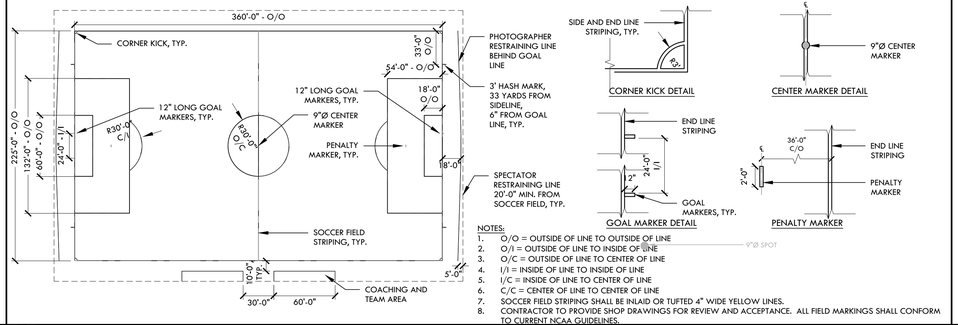
DRAWING NAME: Y:\Projects-SC\2021\2106300 - Watsonville Ramsay Park Improvements\cad_DTL-ATH_3.dwg
PLOT DATE: 07-01-22 PLOTTED BY: stotin78

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4



SIDE AND END LINE STRIPING, TYP.

CORNER KICK DETAIL

9"Ø CENTER MARKER

CENTER MARKER DETAIL

END LINE STRIPING

GOAL MARKERS, TYP.

GOAL MARKER DETAIL

PENALTY MARKER

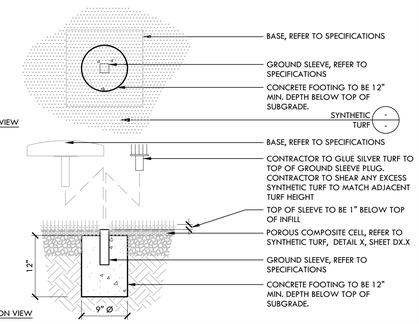
PENALTY MARKER

NOTES:
1. O/O = OUTSIDE OF LINE TO OUTSIDE OF LINE
2. O/I = OUTSIDE OF LINE TO INSIDE OF LINE
3. O/C = OUTSIDE OF LINE TO CENTER OF LINE
4. I/I = INSIDE OF LINE TO INSIDE OF LINE
5. I/C = INSIDE OF LINE TO CENTER OF LINE
6. C/C = CENTER OF LINE TO CENTER OF LINE
7. SOCCER FIELD STRIPING SHALL BE INLAID OR TUFTED 4" WIDE YELLOW LINES.
8. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR REVIEW AND ACCEPTANCE. ALL FIELD MARKINGS SHALL CONFORM TO CURRENT NCAA GUIDELINES.

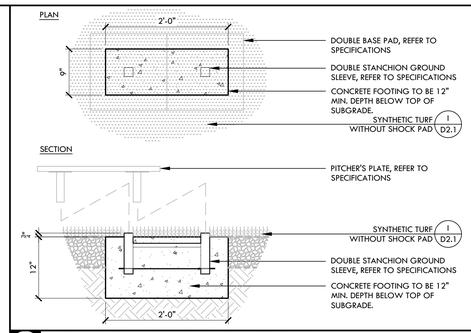
9"Ø SPOT

M

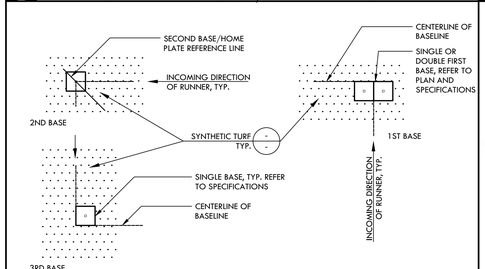
L 75 YARD x 120 YARD SOCCER FIELD STRIPING NTS



E SINGLE ANCHOR BASE SLEEVE IN SYNTHETIC TURF NTS

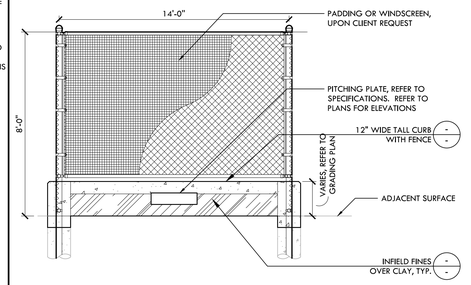


G DOUBLE ANCHOR BASE SLEEVE IN SYNTHETIC TURF - BULLPEN/BATTING CAGE NTS

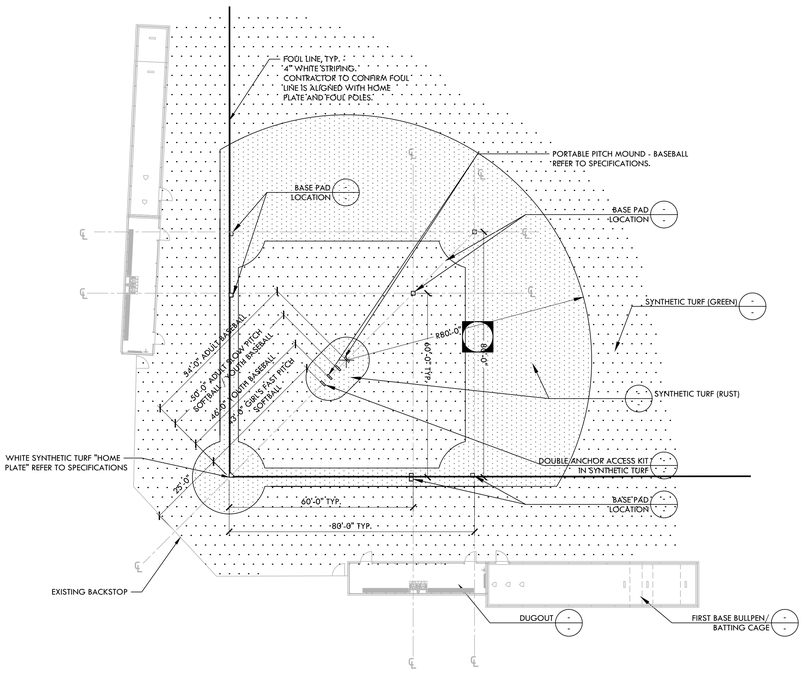


NOTES:
1. PEGS LOCATED CENTERED ON BASE, 7" FROM INTERSECTION OF BASE LINE FOR 1ST AND 3RD BASES.
2. PEGS LOCATED ON INTERSECTION OF BASE LINE FOR 2ND BASE.
3. DETAIL PROVIDED FOR LOCATION ONLY.

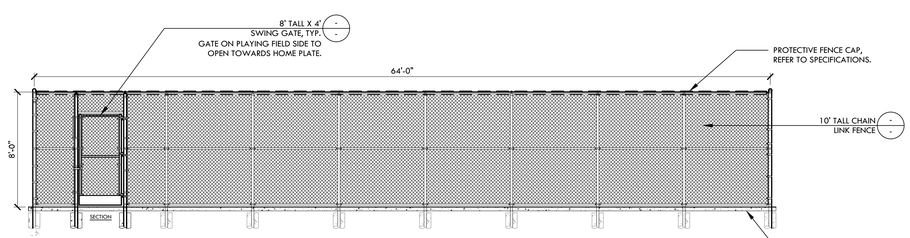
D DOUBLE ANCHOR ACCESS KIT IN SYNTHETIC TURF NTS



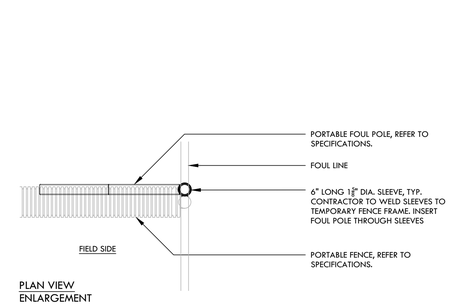
K SOFTBALL/BASEBALL INFIELD NTS



F BASE PAD LOCATION NTS



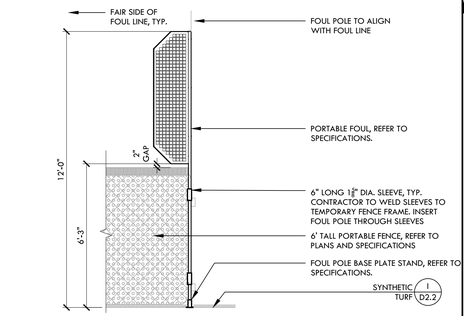
C SOFTBALL SINGLE BULLPEN - SECTION NTS



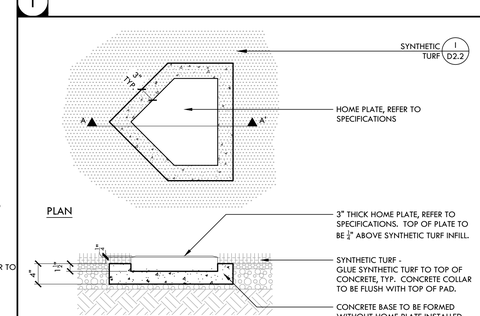
PLAN VIEW ENLARGEMENT

I

B SOFTBALL 1ST BULLPEN/BATTING CAGE - ELEVATION NTS



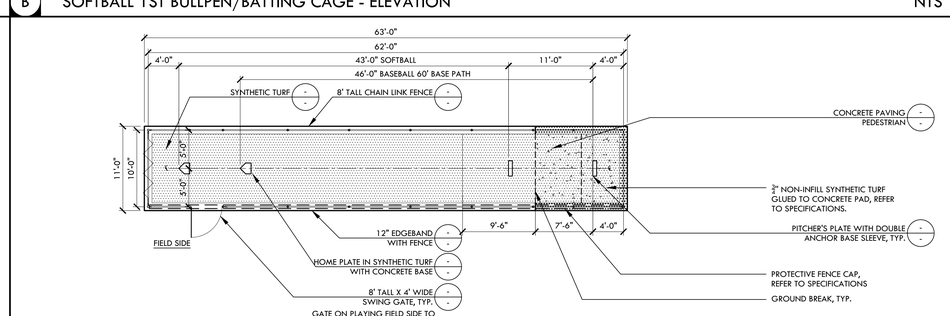
ELEVATION VIEW



SECTION - A-A'

J FOUL POLE - PORTABLE NTS

H HOME PLATE IN SYNTHETIC TURF WITH CONCRETE BASE - BULLPEN/BATTING CAGE NTS



A 3RD BASE BULLPEN NTS

ALL IDEAS, DESIGN, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE PRIOR WRITTEN PERMISSION OF VERDE DESIGN, INC.

DRAWING NAME: X:\Projects-SC\2021\2106300 - Watsonville Ramsay Park Improvements\cad_DTL-ATH_3.dwg
PLOT DATE: 07-01-22 PLOTTED BY: station78

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4

REGISTERED LANDSCAPE ARCHITECT DEREK MCKEE No. 4148 Signature EXPIRATION DATE: DEC. 2022 STATE OF CALIFORNIA

VERDE DESIGN
LANDSCAPE ARCHITECTURE
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CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

ATHLETIC DETAILS

Approved by _____ Date _____
MARIA ESTHER CARRANZA RODRIGUEZ

Designed by VERDE | Job No. 2106300 | SHEET D3.2
Drawn by DL | Scale 1"=20'-0" | X of 106
Checked by TY/DM

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

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STEP 1: STRIP WIRES 1/2" FROM ENDS.

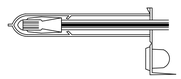
STEP 2: APPLY SCOTCHLOK Y SPRING CONNECTOR IN A CLOCKWISE DIRECTION.

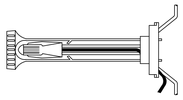




STEP 3: INSERT SPLICE TO BOTTOM OF GEL-FILLED TUBE. CHECK TO MAKE SURE CONNECTOR HAS BEEN PUSHED PAST LOCKING FINGERS AND IS SEATED AT BOTTOM OF TUBE.

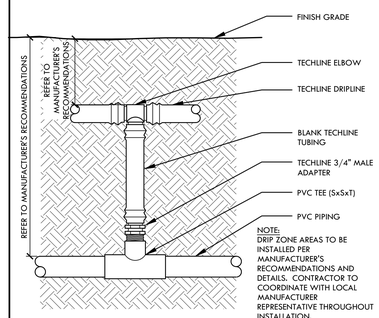
STEP 4: POSITION WIRES IN WIRE CHANNELS AND CLOSE INSULATOR TUBE COVER.





MAXIMUM WIRE SIZES PER CONNECTOR ARE 3 - #14'S OR 2 - #12'S.

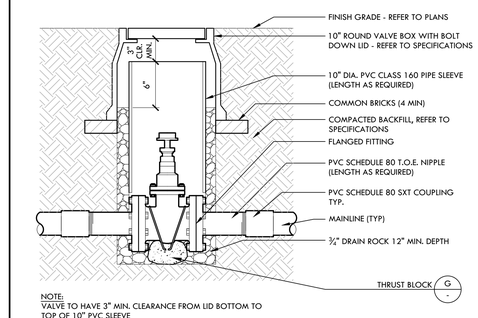
T CONTROL WIRE CONNECTION NTS



NOTE:
DRIP ZONE AREAS TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND DETAILS. CONTRACTOR TO COORDINATE WITH LOCAL MANUFACTURER REPRESENTATIVE THROUGHOUT INSTALLATION.

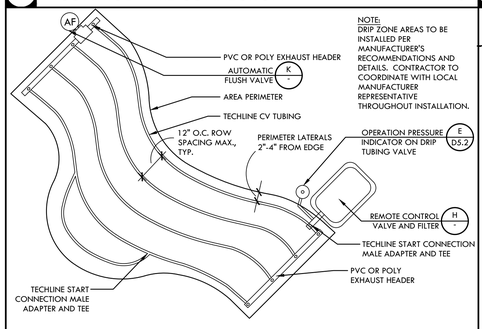
O TECHLINE START CONNECTION (PVC TO TEE) NTS

J



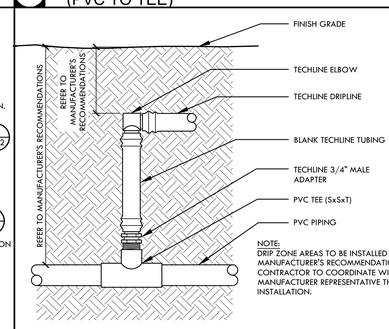
NOTE:
VALVE TO HAVE 3" MIN. CLEARANCE FROM LID BOTTOM TO TOP OF 10" PVC SLEEVE

E GATE VALVE - 2 1/2" AND LARGER NTS



NOTE:
DRIP ZONE AREAS TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND DETAILS. CONTRACTOR TO COORDINATE WITH LOCAL MANUFACTURER REPRESENTATIVE THROUGHOUT INSTALLATION.

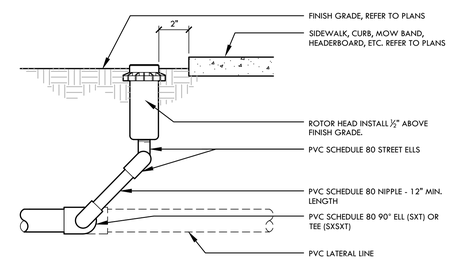
S DRIP TUBING - CURVED AREA LAYOUT NTS



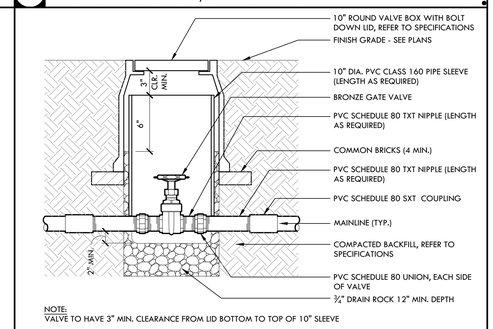
NOTE:
DRIP ZONE AREAS TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND DETAILS. CONTRACTOR TO COORDINATE WITH LOCAL MANUFACTURER REPRESENTATIVE THROUGHOUT INSTALLATION.

N TECHLINE START CONNECTION (PVC TO ELBOW) NTS

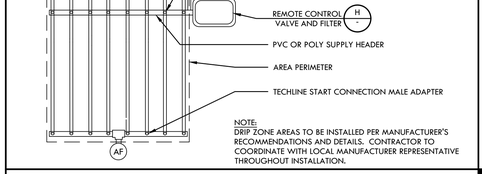
I ROTOR HEAD AND SWING JOINT NTS



D GATE VALVE - 2" AND SMALLER IN SIZE NTS

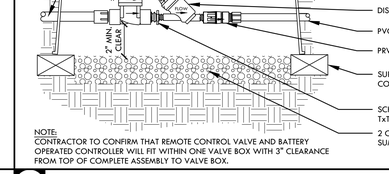


NOTE:
VALVE TO HAVE 3" MIN. CLEARANCE FROM LID BOTTOM TO TOP OF 10" SLEEVE



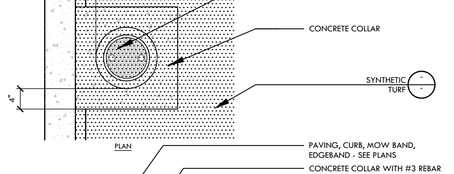
NOTE:
DRIP ZONE AREAS TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND DETAILS. CONTRACTOR TO COORDINATE WITH LOCAL MANUFACTURER REPRESENTATIVE THROUGHOUT INSTALLATION.

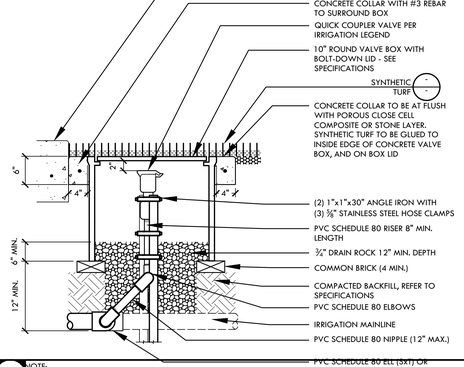
DRIP TUBING - CENTER FEED LAYOUT NTS



NOTE:
CONTRACTOR TO CONFIRM THAT REMOTE CONTROL VALVE AND BATTERY OPERATED CONTROLLER WILL FIT WITHIN ONE VALVE BOX WITH 3" CLEARANCE FROM TOP OF COMPLETE ASSEMBLY TO VALVE BOX.

M REMOTE CONTROL VALVE AND FILTER NTS

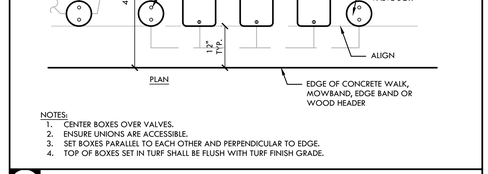




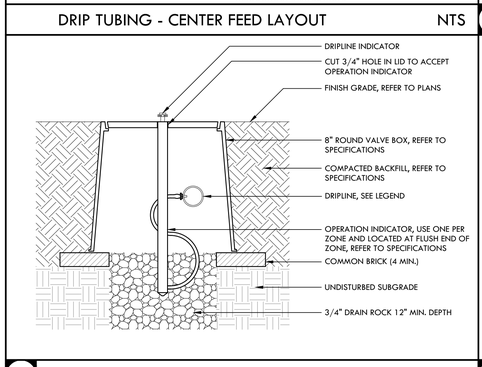
NOTE:
VALVE TO HAVE 2" MIN. CLEARANCE FROM LID BOTTOM TO TOP OF VALVE CAP.

G QUICK COUPLER IN SYNTHETIC TURF NTS

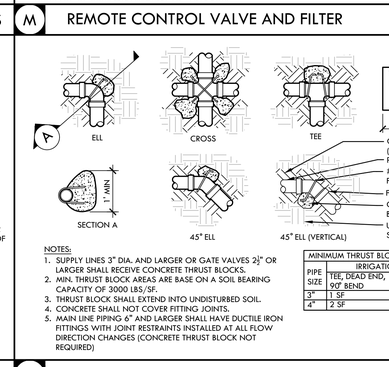
C VALVE BOX LAYOUT WITH GLOBE VALVES NTS



NOTES:
1. CENTER BOXES OVER VALVES.
2. ENSURE UNIONS ARE ACCESSIBLE.
3. SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE.
4. TOP OF BOXES SET IN TURF SHALL BE FLUSH WITH TURF FINISH GRADE.



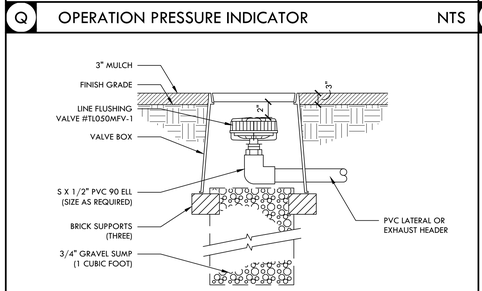
Q OPERATION PRESSURE INDICATOR NTS



NOTES:
1. SUPPLY LINES 3" DIA. AND LARGER OR GATE VALVES 2½" OR LARGER SHALL RECEIVE CONCRETE THRUST BLOCKS.
2. MIN. THRUST BLOCK AREAS ARE BASE ON A SOIL BEARING CAPACITY OF 3000 LBS/SF.
3. THRUST BLOCK SHALL EXTEND INTO UNDISTURBED SOIL.
4. CONCRETE SHALL NOT COVER FITTING JOINTS.
5. MAIN LINE PIPING 6" AND LARGER SHALL HAVE DUCTILE IRON FITTINGS WITH JOINT RESTRAINTS INSTALLED AT ALL FLOW DIRECTION CHANGES (CONCRETE THRUST BLOCK NOT REQUIRED)

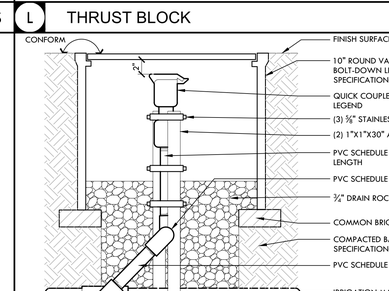
MINIMUM THRUST BLOCK AREA (LxW)			
PIPE SIZE	IRRIGATION PIPE		
	TEE, DEAD END, 90° BEND	45°,22.5°	
3"	1 SF	.5 SF	
4"	2 SF	1 SF	

L THRUST BLOCK NTS



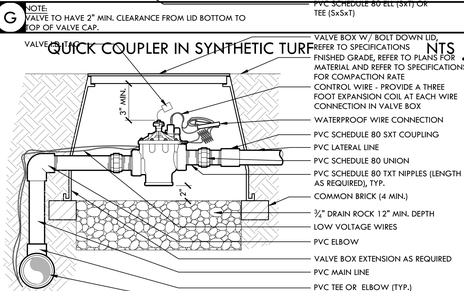
NOTES:
1. CONTRACTOR TO SELECT PLASTIC VALVE BOX WITH LOCKING LID THAT WILL PROVIDE 3" MINIMUM CLEARANCE ON ALL SIDES OF VALVE
2. DRIP ZONE AREAS TO BE INSTALLED PER MANUFACTURE'S RECOMMENDATIONS AND DETAILS. CONTRACTOR TO COORDINATE WITH LOCAL MANUFACTURE REPRESENTATIVE THROUGHOUT INSTALLATION.

P AUTOMATIC FLUSH VALVE NTS



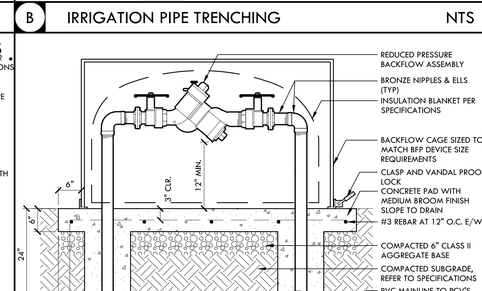
NOTE:
VALVE TO HAVE 2" MIN. CLEARANCE FROM LID BOTTOM TO TOP OF VALVE CAP.

K QUICK COUPLER VALVE NTS



NOTE:
1. VALVE TO HAVE 3" MIN. CLEARANCE FROM LID BOTTOM TO TOP OF VALVE STEM HANDLE.
2. VALVE LID SHALL BE PERMANENTLY INSCRIBED 'CONTROL VALVE' AND WITH THE CONTROLLER STATION NUMBER.

F REMOTE CONTROL VALVE NTS



A BACKFLOW PREVENTER NTS

REGISTERED LANDSCAPE ARCHITECT
DEREK MCKEE
No. 4148
Signature
EXPIRATION DATE: DEC. 2022
STATE OF CALIFORNIA

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
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Santa Clara, CA 95050
tel: 408.985.7300
fax: 408.985.7260
www.VerdeDesigninc.com

CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

IRRIGATION AND PLANTING DETAILS

Approved by _____ Date _____
MARIA ESTHER CARRANZA RODRIGUEZ

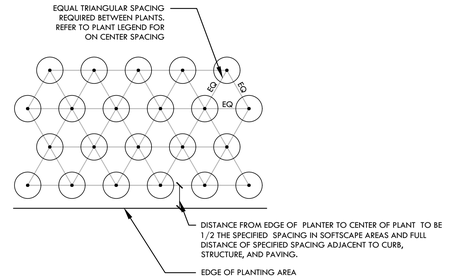
Designed by VERDE | Job No. 2106300 | SHEET D4.1
Drawn by VERDE | Scale AS NOTED | X of 106
Checked by TY/DM

VERDE PROJECT NO. 2106300

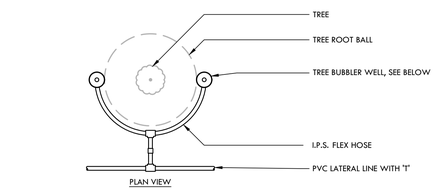
WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

DRAWING NAME: Y:\Projects-SC\2021\2106300 - Watsonville Ramsay Park Improvements\cad_DTL-IRR_4.dwg
PLOT DATE: 07-01-22 PLOTTED BY: station78

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES
0 1 2 3 4

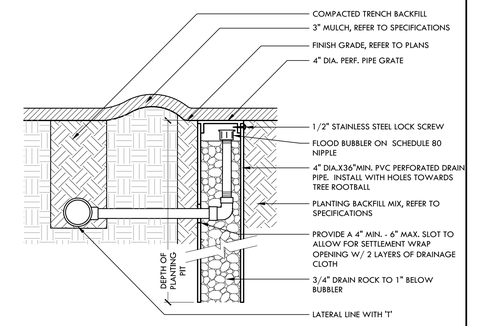


E PLANT SPACING DIAGRAM NTS

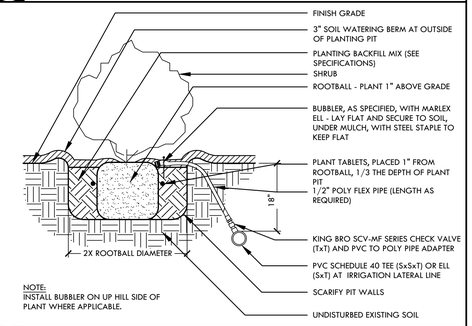


NOTE:
1. BUBBLERS ARE REQUIRED FOR TREES IN LAWN AND SHRUB AREA. TWO BUBBLERS PER TREE ARE TO BE PLACED ON OPPOSITE SIDES OF ROOTBALL. ORIENT BUBBLERS 180° FROM EACH OTHER.
2. USE PROPER RATED GLUE FOR I.P.S. FLEX HOSE.

TRUNK TO BUBBLER SPACING	
SIZE	SPACING
15 GALLON TREE	15"
24" BOX TREE	20"
36" BOX TREE	25"

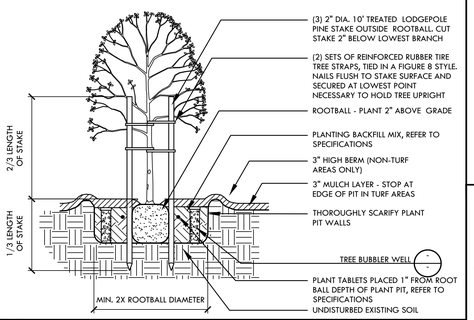


C TREE BUBBLER WELL NTS



NOTE:
INSTALL BUBBLER ON UP HILL SIDE OF PLANT WHERE APPLICABLE.

B SHRUB PLANTING WITH BUBBLER NTS



A TREE PLANTING AND BUBBLER IN PLANTING AREAS NTS

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REGISTERED LANDSCAPE ARCHITECT
DEREK MORE
No. 4148
Signature
EXPIRATION DATE: DEC. 2022
STATE OF CALIFORNIA

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
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CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

IRRIGATION AND PLANTING DETAILS

Approved by _____ Date _____
MARIA ESTHER CARRANZA RODRIGUEZ

Designed by VERDE | Job No. 2106300 | SHEET D4.2
Drawn by VERDE | Scale AS NOTED | X of 106
Checked by TY/DM

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

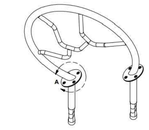
DRAWING NAME: Y:\Projects-SC\2021\2106300 - Watsonville Ramsay Park Improvements\cad_DTL-IRR_4.dwg
PLOT DATE: 07-01-22 PLOTTED BY: station78

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4



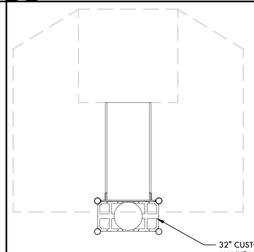
NOVO HILLSIDE ARCH CLIMBER
580-0234
TOP

REFER TO INSTALLATION INSTRUCTIONS FOR FOOTING DETAIL



NOTE:
1. MANUFACTURER: BURKE
2. MODEL: NOVO HILLSIDE ACCESS LOOP
3. COLOR: XXXXX
4. AGES: 2YRS - 5YRS
5. ASTM: XXXXX
6. INSTALL PER MANUFACTURER'S RECOMMENDATIONS

G BURKE - NOVO HILLSIDE ACCESS LOOP NTS

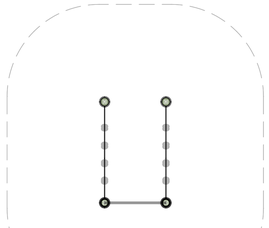




NOTE:
1. MANUFACTURER: BURKE
2. MODEL: STAINLESS STEEL DOUBLE WIDE SLIDE - NUCLEUS
3. COLOR: XXXXX
4. AGES: 2YRS - 5YRS
5. ASTM: XXXXX
6. INSTALL PER MANUFACTURER'S RECOMMENDATIONS

F BURKE - SS DOUBLE WIDE SLIDE (NUCLEUS) NTS





NOTE:
1. MANUFACTURER: BERLINER
2. MODEL: HILLSIDE ROPE CLIMBER
3. COLOR: XXXXX
4. AGES: 2YRS - 5YRS
5. ASTM: XXXXX
6. INSTALL PER MANUFACTURER'S RECOMMENDATIONS

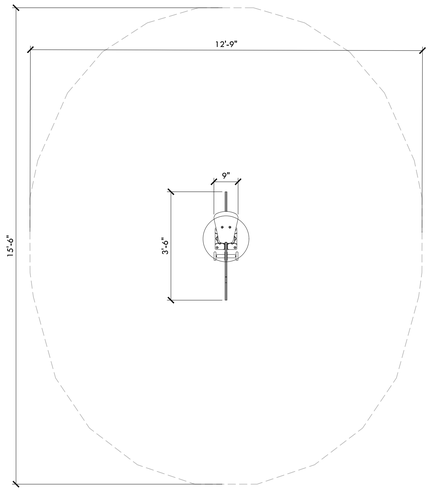
H BERLINER - HILLSIDE ROPE CLIMBER NTS



NOTE:
1. MANUFACTURER: BURKE
2. MODEL: TODDLER T-SWING
3. COLOR: XXXXX
4. AGES: 2YRS - 5YRS
5. ASTM: XXXXX
6. INSTALL PER MANUFACTURER'S RECOMMENDATIONS

E BURKE - TODDLER T-SWING NTS

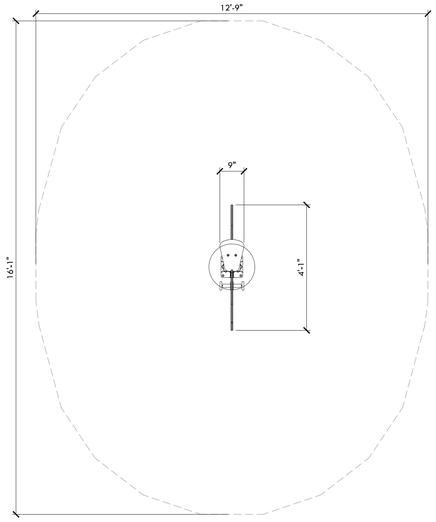




NOTE:
1. MANUFACTURER: BURKE
2. MODEL: SEAHORSE ROCKER
3. COLOR: XXXXX
4. AGES: 2YRS - 5YRS
5. ASTM: XXXXX
6. INSTALL PER MANUFACTURER'S RECOMMENDATIONS

C BURKE - SEAHORSE ROCKER NTS





NOTE:
1. MANUFACTURER: LAPPSET
2. MODEL: DOLPHIN ROCKER
3. COLOR: XXXXXXX
4. AGES: 2YRS - 5YRS
5. ASTM: XXXXXXX
6. INSTALL PER MANUFACTURER'S RECOMMENDATIONS

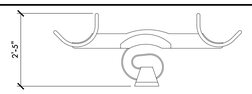
B BURKE - DOLPHIN ROCKER NTS



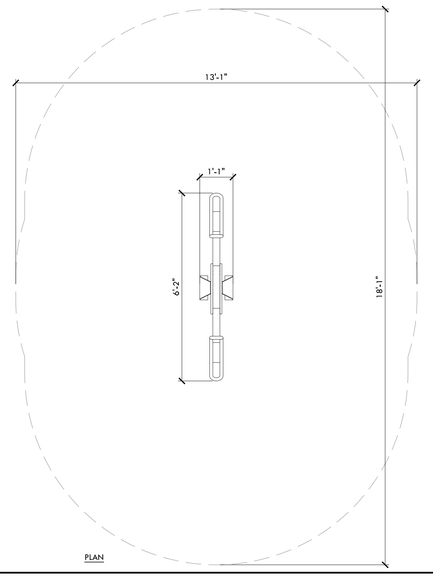


NOTE:
1. MANUFACTURER: LAPPSET
2. MODEL: SEAHORSE ROCKER
3. COLOR: XXXXX
4. AGES: 2YRS - 5YRS
5. ASTM: XXXXX
6. INSTALL PER MANUFACTURER'S RECOMMENDATIONS

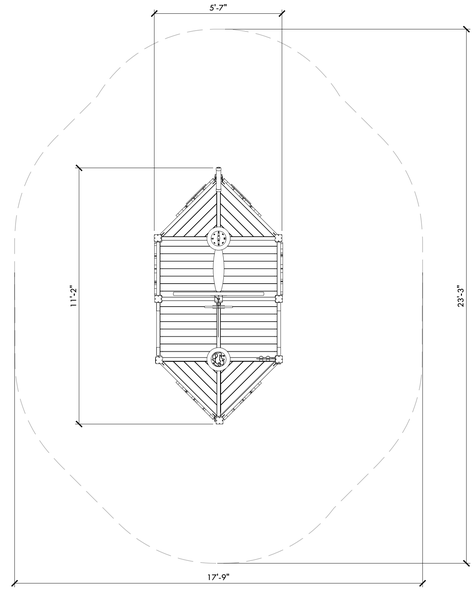
D LAPPSET - FLORA GRASSHOPPER NTS



SECTION



PLAN



NOTE:
1. MANUFACTURER: LAPPSET
2. MODEL: FLORA SHIP
3. COLOR: XXXXXXX
4. AGES: 2 YEARS TO 5 YEARS
5. ASTM: XXXXXXX
6. INSTALL PER MANUFACTURER'S RECOMMENDATIONS

A LAPPSET - FLORA SHIP NTS





REGISTERED LANDSCAPE ARCHITECT
DEREK MCREE
No. 4148
Signature
EXPIRATION DATE: DEC. 2022
STATE OF CALIFORNIA

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
2455 The Alameda
Santa Clara, CA 95050
tel: 408.985.7700
fax: 408.985.7260
www.VerdeDesignInc.com

CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

PLAY EQUIPMENT

Approved by _____ Date _____
MARIA ESTHER CARRANZA RODRIGUEZ

Designed by _____ Job No. 2106300
Drawn by VERDE
Checked by TY/DM
Scale N/A
SHEET D5.1
X of 106

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE PRIOR WRITTEN PERMISSION OF VERDE DESIGN, INC.

DRAWING NAME: Y:\Projects-SC\2021\2106300 - Watsonville Ramsay Park Improvements\cad_DTL-PLAY_5.dwg
PLOT DATE: 07-01-22 PLOTTED BY: station78

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4

ALL IDEAS, DESIGNS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS AND PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE PRIOR WRITTEN PERMISSION OF VERDE DESIGN, INC.

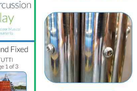
Installation Instructions

Ground Fixed
TUTTI
Page 1 of 3

Instrument Components:
M10 Nut x18
M6x20 Security Screw x18
M6 Saddle Strap x18

Metric Conversion:
300mm/ 12"
500mm/ 19 11/16"
900mm/ 35 7/16"
1.5m/ 59"

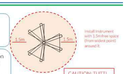
MADE IN BRITAIN BS EN 1176



1. Unpack frame 7no.
2. Lay packaging out on floor or assemble on even abrasive surface to prevent marking of polished stainless steel.
3. Align holes on legs (opposite end to polished domes) and feature in base using 3no. 2m x 200mm threaded bar and 18no. M10 nuts provided. Colour Coded Tools required 2no. 17mm metric spanner/wrench (17/32" inch or alternatively using adjustable wrench) (**See Assembly Guide Sheet**)
4. Invert assembled frame so domed ends face upwards.
5. Insert 6no. M8x60mm Screws into pre drilled holes in frame using TX40 bit.
6. Attach 3No. Notes Panels to Frame and beater to each arm. (**See Assembly Guide Sheet**)
7. **Excavate 1 hole** for the Steel leg **300mm diameter by minimum 500mm deep**, in desired location upon decision from customer.
8. Locate (lower) legs into hole making sure they are vertical and level prior to concreting in place.
9. Once happy with location of the Instrument, **fill** hole using rapid hardening **concrete.** Be sure to compact concrete around legs and leave to dry according to manufacturers guidelines.

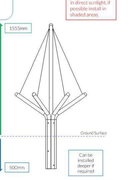


Weight of heaviest part (TUTTI Frame)



Install instrument with 1.5m free space (from widest point) around it.

CAUTION! TUTTI surface can get hot. In direct sunlight, if possible install in shaded areas.



1555mm
Ground Surface
900mm
Can be installed deeper if required

Pair Small Rod Beaters x3

Ground Fix Components: M10x200 Threaded Bar x3 | M10 Nut x6 | M6x60 Security Screw x6

Spares available from: parcussionplay.com or from your local distributor

55 Kg

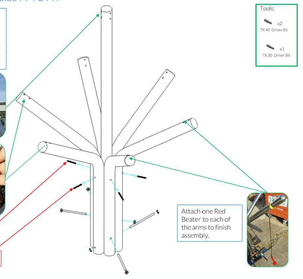
Assembly Guide PPTUTTI

Attach each Note Panel to the corresponding saddle straps on the Frame with the M6x20mm Screws provided





Tools:
x2 TX-40 (Driver Bit)
x1 TX-30 (Driver Bit)



Attach one Rod Beater to each of the arms to finish assembly.

Thread Lock Solution Required (Not Supplied)

Components:
M10x200 Threaded Bar x3
M10 Nut x6
M8 Barrel Nut x6
Thread Lock Solution Required (Not Supplied)

MADE IN BRITAIN BS EN 1176

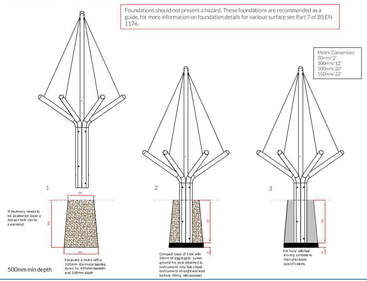


NOTE:
1. MANUFACTURER: PERCUSSION PLAY
2. MODEL: TUTTI
3. COLOR: XXXXX
4. AGES: ALL
5. ASTM: XXXXX
6. INSTALL PER MANUFACTURER'S RECOMMENDATIONS

Ground Fix Post Installation

Foundations should not present a hazard. These foundations are recommended as a guide, for more information on foundation details for various surface see Part 7 of BS EN 1176.

Metric Conversion:
50mm/ 2"
300mm/ 12"
500mm/ 20"
550mm/ 22"



1
If Harmony needs to be positioned 'down' a slope, it can be mounted as:
Excavate a hole with a 250mm diameter tapering down to 400mm diameter and 550mm depth
2
Compact base of hole with 50mm of aggregate. Lower Instrument into hole (check instrument is straight/plumb and level before filling with concrete)
3
Fix hole with fast drying concrete to manufacturers specifications.

500mm min depth

F PERCUSSION PLAY - TUTTI NTS



NOTE:
1. MANUFACTURER: TINKERTUNES
2. MODEL: KINDER BELLS
3. COLOR: XXXXX
4. AGES: ALL
5. ASTM: XXXXX
6. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. REFER TO SPECIFICATIONS.

E TINKERTUNES - KINDER BELLS NTS



NOTE:
1. MANUFACTURER: PERCUSSION PLAY
2. MODEL: EMPEROR CHIMES
3. COLOR: XXXXX
4. AGES: ALL
5. ASTM: XXXXX
6. INSTALL PER MANUFACTURER'S RECOMMENDATIONS

D PERCUSSION PLAY - EMPEROR CHIMES NTS

Installation Instructions

Ground Fixed
Petal Drum
Page 1 of 3

Instrument Components:
M6x20 Security Screw x4
M6 Saddle Strap x2

Metric Conversion:
250mm/ 10"
400mm/ 16"
450mm/ 18"
1080mm/ 42.5"
1.5m/ 59"

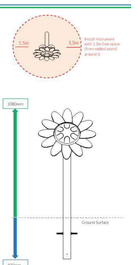
MADE IN BRITAIN BS EN 1176



1. Attach Petal Drum section to frame with security screws provided. (1.1) (See Assembly Guide)
2. Attach Ground Fixing studs holes in base of centre post (1.2) (See Ground Fix Post Installation Sheet)
3. Excavate 1 hole for the Steel legs 250mm diameter by 450mm deep in desired location upon decision from customer.
4. Locate (lower) leg into hole, making sure it is vertical and level prior to concreting in place.
5. Once happy with location of the Instrument, fill holes using rapid hardening concrete. Be sure to compact concrete around legs and leave to dry according to manufacturers guidelines.
6. Attach the 1 of the beaters to each of the saddle straps on the hex frame. (1.3)



(1.3)
(1.2)
Weight of heaviest part 7.5kg



1.5m
1.5m
Install instrument with 1.5m free space (from widest point) around it.
1080mm
Ground Surface
400mm

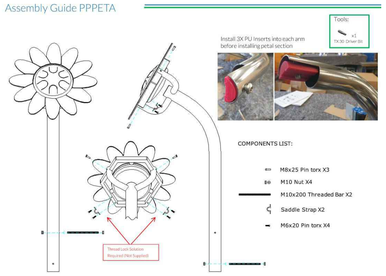
Pair Small Black Beaters x3

Ground Fix Components: M10x200Blk x2 | M10 Nut x6

Spares available from: parcussionplay.com or from your local distributor

12.5 Kg

Assembly Guide PPPETA



Install 2X PU Inserts into each arm before installing petal section

Tools:
x2 TX-30 (Driver Bit)

COMPONENTS LIST:
- M8x25 Pin torx X3
- M10 Nut X4
- M10x200 Threaded Bar X2
- Saddle Strap X2
- M6x20 Pin torx X4

Thread Lock Solution Required (Not Supplied)

Components:
M10x200Blk x2
M10 Nut x4
M6x20 Security Screw x2
M6 Saddle Strap x2
Thread Lock Solution Required (Not Supplied)

MADE IN BRITAIN BS EN 1176

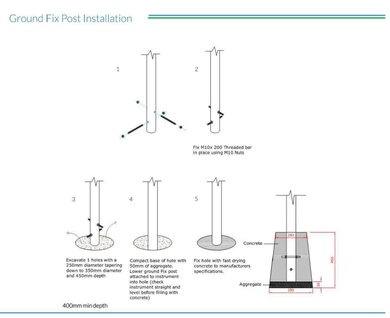
Pair Small Red Beaters X1

Ground Fix Components: M10x200Blk x2 | M10 Nut x4

Spares available from: parcussionplay.com or from your local distributor

12.5 Kg

Ground Fix Post Installation



1
2
Fix M10x 200 Threaded bar in place using M10 Nuts
3
Excavate 1 holes with a 250mm diameter tapering down to 300mm diameter and 450mm depth
4
Compact base of hole with 50mm of aggregate, lower Instrument into hole (check instrument straight and level before filling with concrete)
5
Fix hole with fast drying concrete to manufacturers specifications.
Concrete
Aggregate
400mm min depth

Components:
M10x200Blk x2
M10 Nut x6

Metric Conversion:
250mm/ 10"
350mm/ 13 3/4"
450mm/ 17 11/16"
550mm/ 21 5/8"
650mm/ 25 9/16"

MADE IN BRITAIN BS EN 1176



NOTE:
1. MANUFACTURER: PERCUSSION PLAY
2. MODEL: PETAL DRUM
3. COLOR: XXXXX
4. AGES: ALL
5. ASTM: XXXXX
6. INSTALL PER MANUFACTURER'S RECOMMENDATIONS

C PERCUSSION PLAY - PETAL DRUM NTS

Installation Instructions

Ground Fixed
HD Sonora
Page 1 of 3

Components:
M8 Barrel Nut x4
Fort Straps x2
M6x20mm Setsrm Screw x4

Thread Lock Solution Required (Not Supplied)

MADE IN BRITAIN BS EN 1176





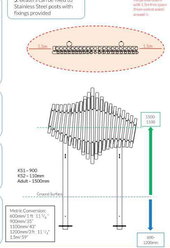


1. **Carefully lay 2 x legs** on a **level surface and insert M10x200 bar and nuts.** Using packing box as protection lay instrument on its side down and insert the bar into the drilled holes in the backboard with the legs and ensure the instrument is aligned square with the legs. **Fix** in place using **M8x20mm barrel nuts** supplied (see installation guide)
2. (See ground fix sheet) **Excavate 2 holes** on site of installation approximately Minimum **600mm deep** (adjust depth according to age range for intended players)
3. **Carefully raise** the **instrument** from the ground **with legs attached** and locate (lower) legs **into holes** making sure they are vertical and level prior to concreting in place.
4. Once happy with location and levels, **fill** holes using rapid hardening **concrete.** Be sure to compact concrete around legs and leave to dry according to manufacturers guidelines

Weight of heaviest part 33kg

5. Rotators can be fixed to Stainless Steel posts with fixings provided

Install instrument with 1.5m free space (from widest point) around it.



K51 - 906
Kadet - 1500m
Adult - 1900m

Ground Surface
1500-1550
600-1200mm

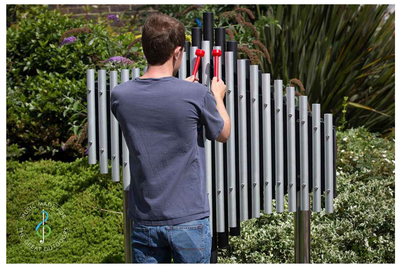
Metric Conversion:
400mm/ 1ft 11 3/4"
900mm/ 35"
1500mm/ 4'11"
1900mm/ 6ft 3 1/4"
1.5m/ 59"

Pair Small Rotators X2

Ground Fix Components: M10x300 Threaded Bar x4 | M10 Nut x8 | M10 Barrel Nut x2 | M10x70 Security Screw x2

Spares available from: parcussionplay.com or from your local distributor

42 Kg



NOTE:
1. MANUFACTURER: PERCUSSION PLAY
2. MODEL: SONORA
3. COLOR: XXXXX
4. AGES: ALL
5. ASTM: XXXXX
6. INSTALL PER MANUFACTURER'S RECOMMENDATIONS

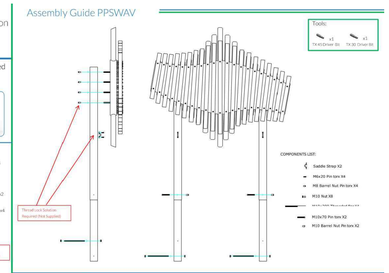
Assembly Guide PPSWAV

Ground Fixed
HD Sonora
Page 2 of 3

Components:
M8 Barrel Nut x4
Fort Straps x2
M6x20mm Setsrm Screw x4

Thread Lock Solution Required (Not Supplied)

MADE IN BRITAIN BS EN 1176



Thread Lock Solution Required (Not Supplied)

Tools:
x1 TX-40 (Driver Bit)
x1 TX-30 (Driver Bit)

COMPONENTS LIST:
- Saddle Strap X2
- M8x25 Pin torx X4
- M8 Barrel Nut, Pin torx X4
- M10 Nut X8
- M10x200 Threaded Bar X4
- M10x70 Pin torx X2
- M10 Barrel Nut, Pin torx X2

Pair Small Rotators X2

Ground Fix Components: M10x300 Threaded Bar x4 | M10 Nut x8 | M10 Barrel Nut x2 | M10x70 Security Screw x2

Spares available from: parcussionplay.com or from your local distributor

37 Kg

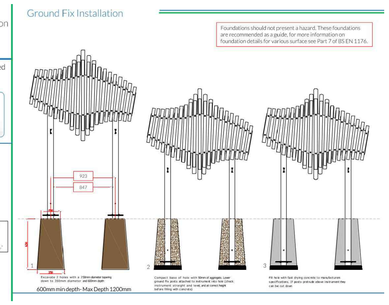
Ground Fix Installation

Ground Fixed
Sonora
Page 3 of 3

Components:
M10x200mm BZP Bar x4
M10 BZP Nut x8

Metric Conversion:
50mm/ 2"
250mm/ 10"
350mm/ 14"
650mm/ 2'1 5/8"

MADE IN BRITAIN BS EN 1176



Foundations should not present a hazard. These foundations are recommended as a guide, for more information on foundation details for various surface see Part 7 of BS EN 1176.

K51
Kadet
Adult
600mm min depth- Max Depth 1200mm

Excavate 2 holes with a 250mm diameter tapering down to 300mm diameter and 600mm depth

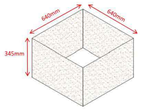
Compact base of hole with 50mm of aggregate, Lower Instrument into hole (check instrument straight and level before filling with concrete)

Fix hole with fast drying concrete to manufacturers specifications.

B PERCUSSION PLAY - SONORA NTS

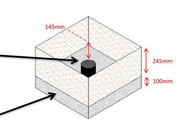
Ground Works Stepping Stone

1. Excavate hole below finished installation level (including surfacing) with dimensions of 640mm x 640mm x 345mm.



640mm
640mm
345mm

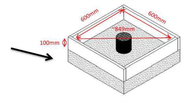
2. To prevent flooding the foundations should be connected to a rainwater drainage system such as a storm drain or soakaway.
3. Install drainage inlet centrally in excavated area 145mm from finished ground level. This will allow for a slight fall in the concrete pad to encourage water run-off.
4. Lay a level compacted 100mm granular sub-base over a geo-textile. This will help to spread the load of the concrete installation pad.



145mm
245mm
100mm

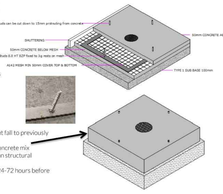
Ground Works Stepping Stone

5. Create timber shuttering on top of compacted sub-base with an internal area of 600mm x 600mm x 100mm.
   - Note – finished height to top of shuttering should be 145mm below finished installation level (including surfacing).
   - To ensure shuttering is square, internal diagonal measurements should be ~849mm.



640mm
640mm
100mm

6. Install A142 steel reinforcing mesh (or similar) on 50mm plastic or steel supports or "chairs" to hold mesh vertically centred in shuttering area.
7. Install the supplied installation studs jig on top of steel mesh and centre between shuttering and affix in place using cable ties (to ensure no movement when concrete is poured).
   - Note – threaded studs must be covered when concrete is poured to ensure threads do not get concrete on them.
   - Threads should protrude 30mm from top of shuttering.



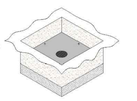
Studs can be cut down by 15mm protruding from concrete

SHUTTERING
50mm CONCRETE BELOW MESH
Hardcore Blinds 0/6 or 0/31.5mm Rock Fill, by Verde, or Client
A142 MESH WITH 50mm COVER TOP & BOTTOM
50mm CONCRETE ABOVE MESH
TYPE 1 SUB-BASE 100mm

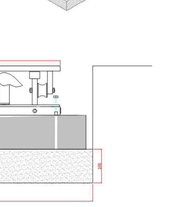
8. Pour 100mm depth concrete pad and create slight fall to previously fitted drainage inlet.
   - Consider mixing reinforcement fibres in concrete mix predominantly for crack control rather than structural strengthening.
   - Allow to poured concrete pad to cure for 24-72 hours before proceeding to next step.
   - Remove shuttering after 24-72 hours.

Ground Works Stepping Stone

9. We recommend allowing concrete to cure for a minimum of 1 week prior to installing Stepping Stone.
10. Once Pad is cured, the exposed studs can be cut down so only 15mm is protruding above the concrete pads surface.



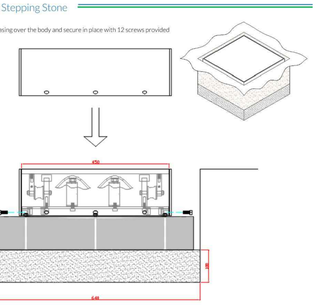
11. Lower Stepping Stone Body onto protruding studs and secure in place with nuts provided



#20
345
145
640

Ground Works Stepping Stone

12. Locate the surround casing over the body and secure in place with 12 screws provided

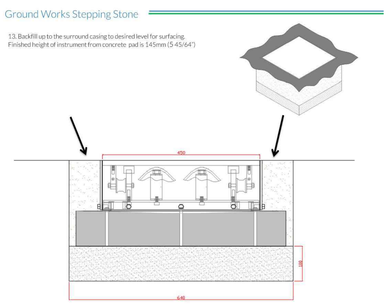


#20
145
640



Ground Works Stepping Stone

13. Backfill up to the surround casing to desired level for surfacing. Finished height of instrument from concrete pad is 145mm (5 45/64")



#20
145
640

A PERCUSSION PLAY - STEPPING STONES NTS

NOTE:
1. MANUFACTURER: PERCUSSION PLAY
2. MODEL: STEPPING STONES
3. COLOR'S: XXXXX
4. AGES: ALL
5. ASTM: XXXXX
6. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

REGISTERED LANDSCAPE ARCHITECT — DEREK MCREE — No. 4148 — Signature — EXPIRATION DATE: DEC. 2022 — STATE OF CALIFORNIA

VERDE DESIGN
LANDSCAPE ARCHITECTURE
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SPORT PLANNING & DESIGN
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www.VerdeDesigninc.com

CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

PLAY EQUIPMENT

Approved by _____ Date _____
MARIA ESTHER CARRANZA RODRIGUEZ

Designed by _____ Job No. 2106300
Drawn by VERDE
Checked by TY/DM
Scale N/A

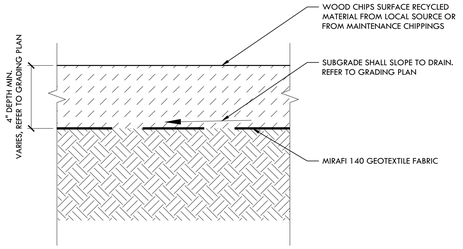
SHEET D5.2
X of 106

VERDE PROJECT NO. 2106300

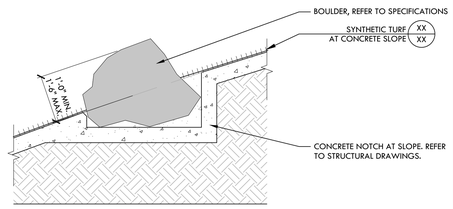
WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

DRAWING NAME: Y:\Projects-SC\2021\2106300 - Watsonville Ramsay Park Improvements\cad_DTL-PLAY_5.dwg
PLOT DATE: 07-01-22 PLOTTED BY: station78

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES
0 1 2 3 4



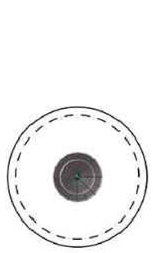
F ENGINEERED WOOD FIBER SURFACE NTS



NOTE:
1. REFER TO STRUCTURAL ENGINEER'S PLANS FOR CONCRETE NOTCH DETAIL.
2. SELECTION OF BOULDERS SHALL BE APPROVED BY DESIGNER. CONTRACTOR SHALL COORDINATE WITH CITY REPRESENTATIVE AND DESIGNER BEFORE INSTALLATION.
3. BOULDERS SHALL BE FIELD FIT BY DESIGNER AND CITY REPRESENTATIVE. CONTRACTOR SHALL COORDINATE AS REQUIRED PRIOR TO INSTALLATION.

E BOULDER AT SLIDE MOUND NTS

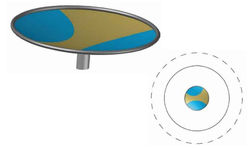






NOTE:
1. MANUFACTURER: BERLINER
2. MODEL: O'TANNEBAUM 3.1
3. COLOR: XXXXX
4. AGES: 2YRS - 12YRS
5. ASTM: XXXXX
6. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. REFER TO SPECIFICATIONS.

C BERLINER - O'TANNEBAUM NTS

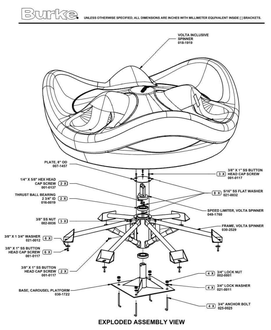


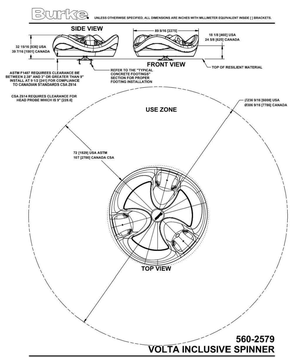




NOTE:
1. MANUFACTURER: BERLINER
2. MODEL: DISK XL
3. COLOR: XXXXX
4. AGES: 5YRS - 12YRS
5. ASTM: XXXXX
6. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. REFER TO SPECIFICATIONS.

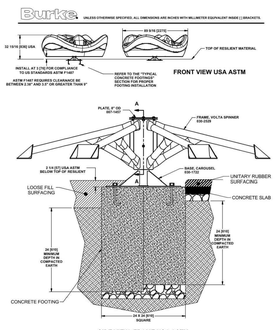
B BERLINER - DISK XL NTS





560-2579
VOLTA INCLUSIVE SPINNER

BCI Burke Company, LLC P.O. Box 549 Fond du Lac, WI 54936-0549 Telephone 920-921-9220



560-2579
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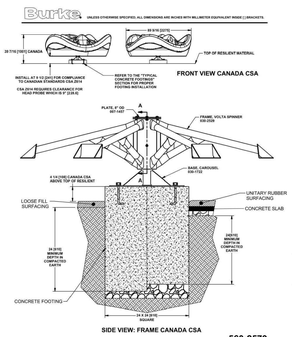

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VOLTA INCLUSIVE SPINNER

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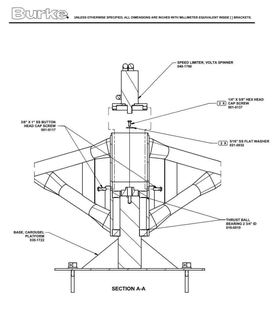

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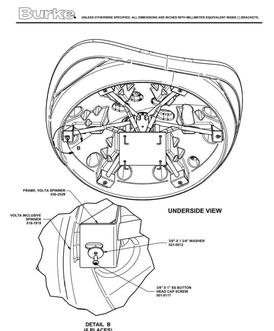
BCI Burke Company, LLC P.O. Box 549 Fond du Lac, WI 54936-0549 Telephone 920-921-9220



560-2579
VOLTA INCLUSIVE SPINNER

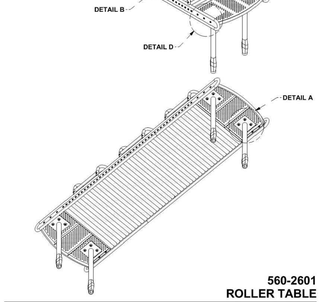
BCI Burke Company, LLC P.O. Box 549 Fond du Lac, WI 54936-0549 Telephone 920-921-9220





NOTE:
1. MANUFACTURER: BURKE
2. MODEL: VOLTA INCLUSIVE SPINNER
3. COLOR: XXXXX
4. AGES: 5YRS - 12YRS
5. ASTM: XXXXX
6. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. REFER TO SPECIFICATIONS.

D BURKE - VOLTA INCLUSIVE SPINNER NTS

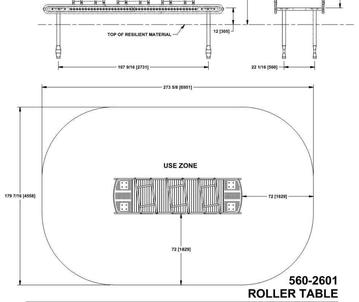


560-2601
ROLLER TABLE

BCI Burke Company, LLC P.O. Box 549 Fond du Lac, WI 54936-0549 Telephone 920-921-9220

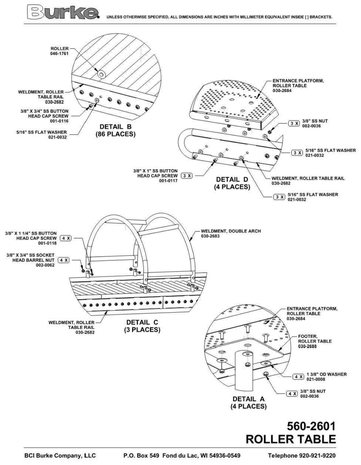


NOTE:
1. MANUFACTURER: BURKE
2. MODEL: ROLLER TABLE
3. COLOR: XXXXX
4. AGES: ALL
5. ASTM: XXXXX
6. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. REFER TO SPECIFICATIONS.



560-2601
ROLLER TABLE

BCI Burke Company, LLC P.O. Box 549 Fond du Lac, WI 54936-0549 Telephone 920-921-9220



560-2601
ROLLER TABLE

BCI Burke Company, LLC P.O. Box 549 Fond du Lac, WI 54936-0549 Telephone 920-921-9220

A BURKE - ROLLER TABLE NTS

ALL IDEAS, DESIGNS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE PRIOR WRITTEN PERMISSION OF VERDE DESIGN, INC.

REGISTERED LANDSCAPE ARCHITECT
DEREK MCKEE
No. 4148
Signature
EXPIRATION DATE: DEC. 2022
STATE OF CALIFORNIA

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
2455 The Alameda
Santa Clara, CA 95050
tel: 408.985.7300
fax: 408.985.7260
www.VerdeDesigninc.com

CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

PLAY EQUIPMENT

Approved by _____ Date _____
MARIA ESTHER CARRANZA RODRIGUEZ

Designed by _____
Drawn by VERDE
Checked by TY/DM
Job No. 2106300
Scale N/A
SHEET D5.3
X of 106

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

DRAWING NAME: Y:\Projects-SC\2021\2106300 - Watsonville Ramsay Park Improvements\cad_DTL-PLAY_5.dwg
PLOT DATE: 07-01-22 PLOTTED BY: station78

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4







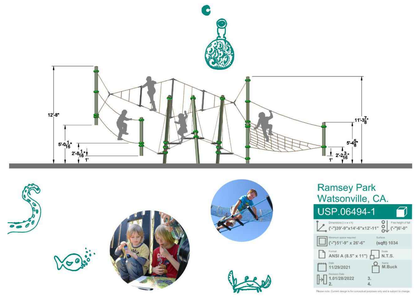


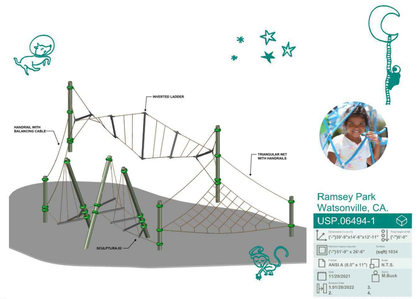




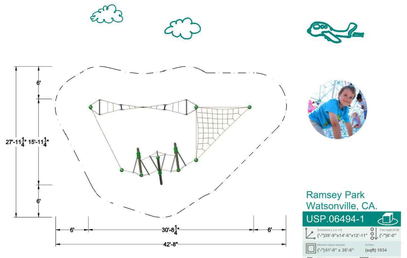
NOTE:
1. MANUFACTURER: LAPPSET
2. MODEL: CUSTOM MAGIC MOUNTAIN FEATURE
3. COLOR: XXXXX
4. AGES: 5YRS - 12YRS
5. ASTM: XXXXX
6. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. REFER TO SPECIFICATIONS.

D LAPPSET - CUSTOM MAGIC MOUNTAIN PLAY STRUCTURE NTS









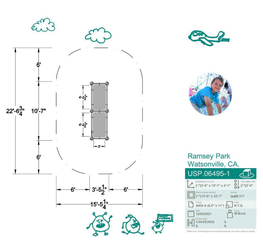
NOTE:
1. MANUFACTURER: BERLINER
2. MODEL: TERRANO LOW ROPE CLIMBERS
3. COLOR: XXXXX
4. AGES: 5YRS - 12YRS
5. ASTM: XXXXX
6. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. REFER TO SPECIFICATIONS.

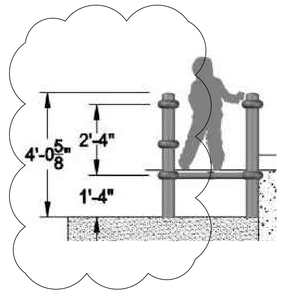
C BERLINER - TERRANO LOW ROPE CLIMBER NTS



NOTE:
1. MANUFACTURER: BERLINER
2. MODEL: CUSTOM TRANSFER STATION
3. COLOR: XXXXX
4. AGES: 5YRS - 12YRS
5. ASTM: XXXXX
6. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. REFER TO SPECIFICATIONS.

B BERLINER - CUSTOM TRANSFER STATION NTS





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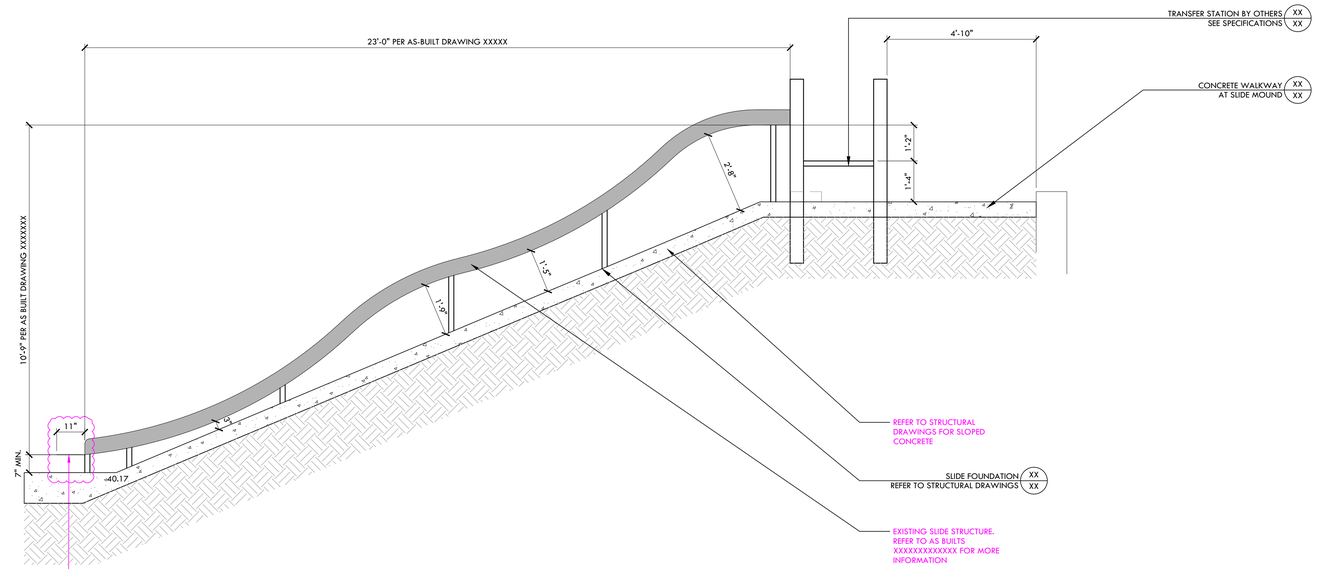


A RE-INSTALLATION OF EXISTING RAMSAY PARK SLIDE NTS

REGISTERED LANDSCAPE ARCHITECT
DEREK MCKEE
No. 4148
Signature
EXPIRATION DATE: DEC. 2022
STATE OF CALIFORNIA

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
2455 The Alameda
Santa Clara, CA 95050
tel: 408.985.7300
fax: 408.985.7360
www.VerdeDesigninc.com

CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

PLAY EQUIPMENT

Approved by: MARIA ESTHER CARRANZA RODRIGUEZ Date:

Designed by: Drawn by: VERDE Checked by: TY/DM
Job No. 2106300 Scale N/A
SHEET D5.4 X of 106

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

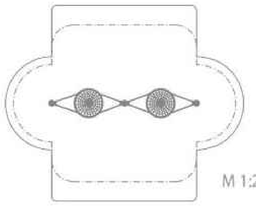
ALL IDEAS, DESIGN, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE PRIOR WRITTEN PERMISSION OF VERDE DESIGN, INC.

DRAWING NAME: Y:\Projects-SC\2021\2106300 - Watsonville Ramsay Park Improvements\cad_DTL-PLAY_5.dwg
PLOT DATE: 07-01-22 PLOTTED BY: station78

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4



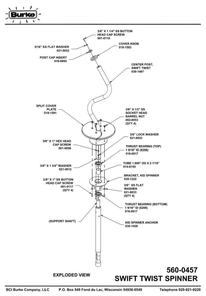


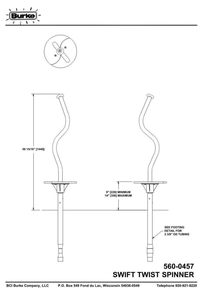


NOTE:
1. MANUFACTURER: BERLINER
2. MODEL: DOUBLE CLOUD 9
3. COLOR: XXXXX
4. AGES: 5YRS - 12YRS
5. ASTM: XXXXX
6. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. REFER TO SPECIFICATIONS.

C BERLINER - DOUBLE CLOUD 9 NTS







NOTE:
1. MANUFACTURER: BURKE
2. MODEL: SWIFT TWIST
3. COLOR: XXXXX
4. AGES: 5YRS - 12YRS
5. ASTM: XXXXX
6. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. REFER TO SPECIFICATIONS.

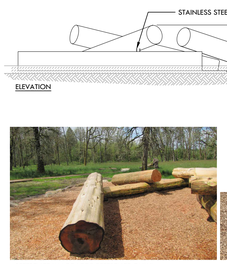
B BURKE - SWIFT TWIST NTS

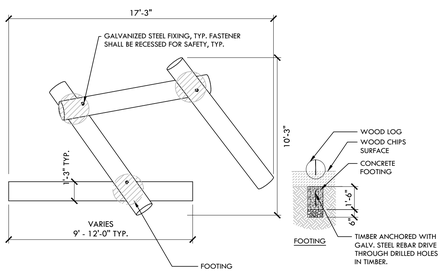




NOTE:
1. MANUFACTURER: BERLINER
2. MODEL: ACCESS WHIRL
3. COLOR: XXXXX
4. AGES: 5YRS - 12YRS
5. ASTM: XXXXX
6. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. REFER TO SPECIFICATIONS.

A BERLINER - ACCESS WHIRL NTS





REFERENCE IMAGE (FOR REFERENCE ONLY)

D LOG PILE NTS

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REGISTERED LANDSCAPE ARCHITECT
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Signature
EXPIRATION DATE: DEC. 2022
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CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

PLAY EQUIPMENT

Approved by _____ Date _____
MARIA ESTHER CARRANZA RODRIGUEZ

Designed by _____ Job No. 2106300 SHEET D5.5
Drawn by VERDE Scale N/A X of 106
Checked by TY/DM

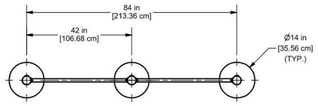
VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

DRAWING NAME: Y:\Projects-SC\2021\2106300 - Watsonville Ramsay Park Improvements\cad_DTL-PLAY_5.dwg
PLOT DATE: 07-01-22 PLOTTED BY: station78

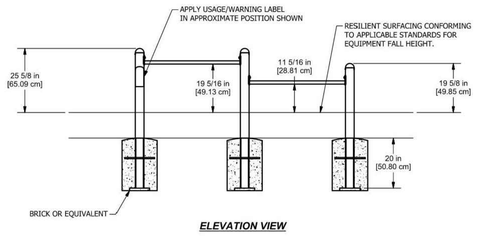
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4

UP255 PUSH-UP

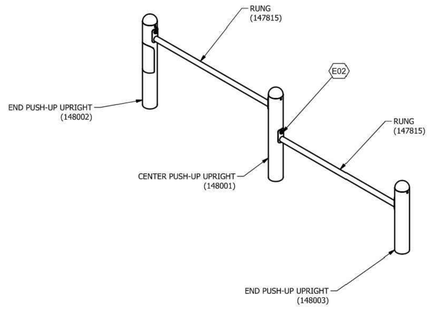


PLAN VIEW

CONCRETE REQUIRED:
.2 CUBIC METERS
[.15 CUBIC YARDS]

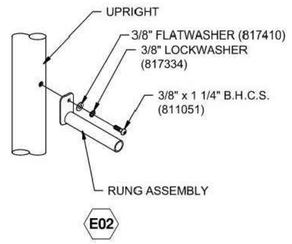


ELEVATION VIEW



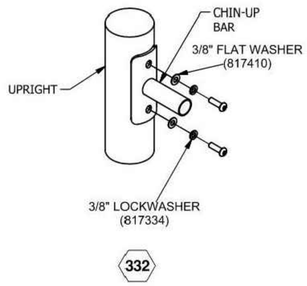
FINISHED ASSEMBLY





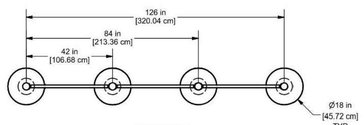
C PUSH UP NTS

UP261 JOINT USE PULL-UP BAR



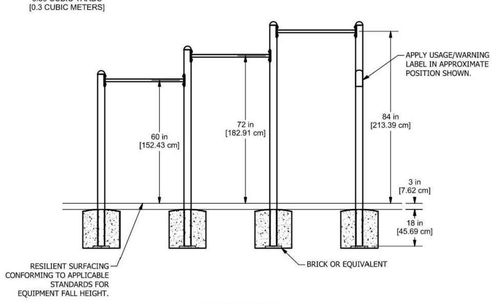


UP261 JOINT USE PULL-UP BAR

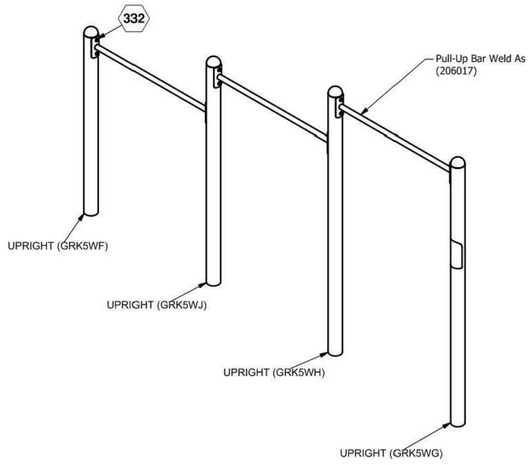


PLAN VIEW

CONCRETE REQUIRED:
0.39 CUBIC YARDS
[0.3 CUBIC METERS]

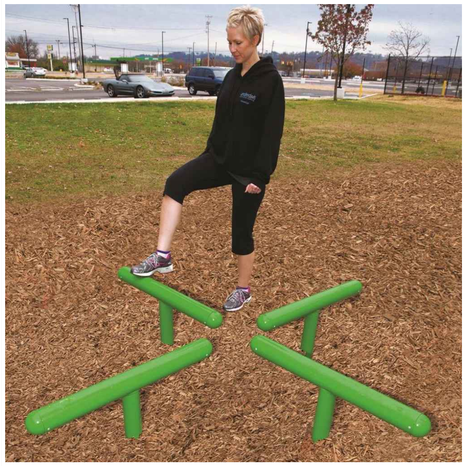


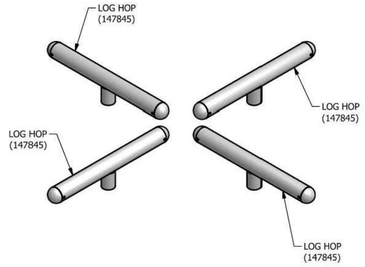
ELEVATION VIEW



FINISHED ASSEMBLY

B PULL UP NTS



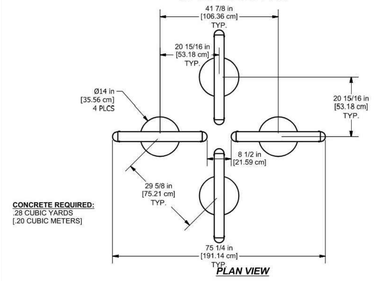


NOTE:
MINIMUM OF ONE USAGE/WARNING LABEL SIGN POST (UP197) MUST BE USED WITH EACH LOG HOP. SEE SIGN POST INSTALLATION SHEET FOR INSTALLATION DETAILS.

SIGN POST MUST BE OUTSIDE MAXIMUM SPACE IN WHICH THE USER AND EXERCISE EQUIPMENT COMPONENTS TRAVERSE WHEN THE EQUIPMENT IS OPERATED.

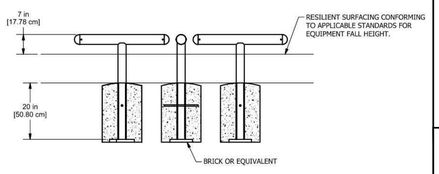
FINISHED ASSEMBLY

UP250 LOG HOP



CONCRETE REQUIRED:
.28 CUBIC YARDS
[.20 CUBIC METERS]

PLAN VIEW



A LOG HOP NTS

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REGISTERED LANDSCAPE ARCHITECT
DEREK MCKEE
No. 4148
Signature
EXPIRATION DATE: DEC. 2022
STATE OF CALIFORNIA

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
2455 The Alameda
Santa Clara, CA 95050
tel: 408.985.7200
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www.VerdeDesigninc.com

CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

CONSTRUCTION DETAILS

Approved by _____ Date _____
MARIA ESTHER CARRANZA RODRIGUEZ

Designed by _____
Drawn by VERDE
Checked by TY/DM

Job No. 2106300
Scale 1"=20'-0"

SHEET D6.1
X of 106

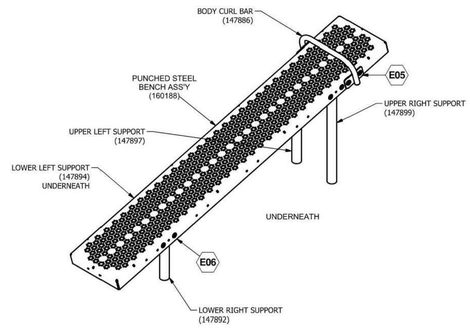
VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

DRAWING NAME: Y:\Projects-SC\2021\2106300 - Watsonville Ramsay Park Improvements\cad_DTL-FITNESS_6.dwg
PLOT DATE: 07-01-22 PLOTTED BY: station78

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4

UP262 BODY CURL STATION



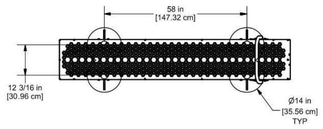
FINISHED ASSEMBLY

NOTE:
MINIMUM OF ONE USAGE/WARNING LABEL SIGN POST (UP197) MUST BE USED WITH EACH BODY CURL STATION. SEE SIGN POST INSTALLATION SHEET FOR INSTALLATION DETAILS.

SIGN POST MUST BE OUTSIDE MAXIMUM SPACE IN WHICH THE USER AND EXERCISE EQUIPMENT COMPONENTS TRAVERSE WHEN THE EQUIPMENT IS OPERATED.

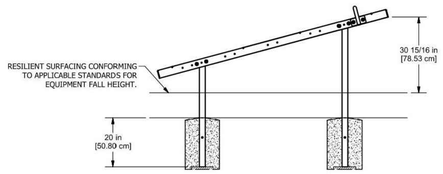
⬡ = INSTALLATION DETAIL

UP262 BODY CURL STATION

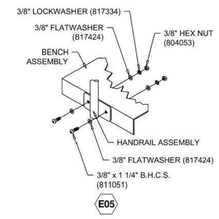


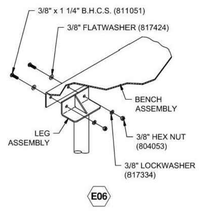
PLAN VIEW

CONCRETE REQUIRED:
0.28 CUBIC YARDS
[0.20 CUBIC METERS]



ELEVATION VIEW

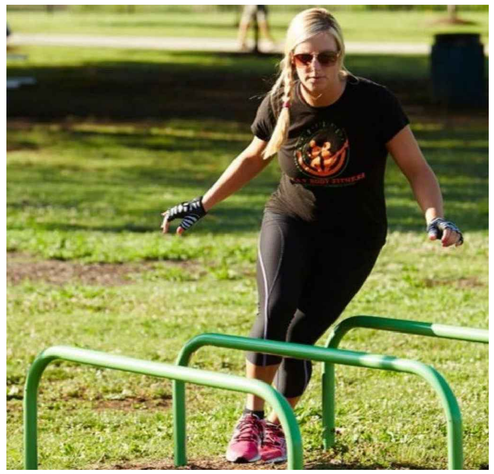




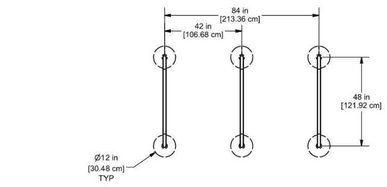


F BODY CURL

NTS

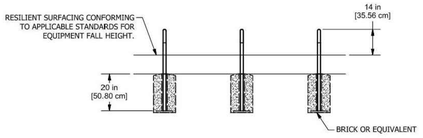


UP265 HURDLE



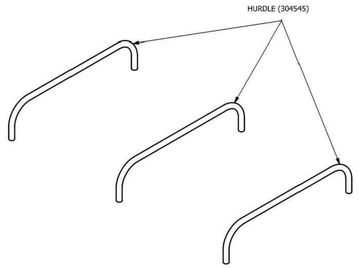
CONCRETE REQUIRED:
0.30 CUBIC YARDS
[0.24 CUBIC METERS]

PLAN VIEW



ELEVATION VIEW

MAINTENANCE PROCEDURE:
Periodically check hardware for tightness, and tighten as necessary, also check if the entrapments and protrusions still satisfactory. Always check all metal parts for paint peeling, corrosion and touch up if necessary. Check all parts for cracks, breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.



NOTE:
MINIMUM OF ONE USAGE/WARNING LABEL SIGN POST (UP197) MUST BE USED WITH EACH HURDLE STATION. SEE SIGN POST INSTALLATION SHEET FOR INSTALLATION DETAILS.

SIGN POST MUST BE OUTSIDE MAXIMUM SPACE IN WHICH THE USER AND EXERCISE EQUIPMENT COMPONENTS TRAVERSE WHEN THE EQUIPMENT IS OPERATED.

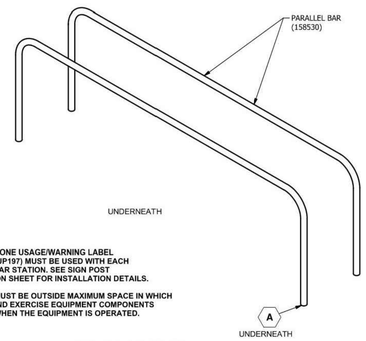
FINISHED ASSEMBLY

E HURDLE

NTS



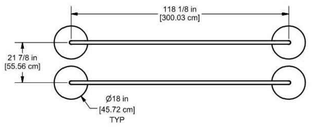
UP263 PARALLEL BAR STATION



NOTE:
MINIMUM OF ONE USAGE/WARNING LABEL SIGN POST (UP197) MUST BE USED WITH EACH PARALLEL BAR STATION. SEE SIGN POST INSTALLATION SHEET FOR INSTALLATION DETAILS.

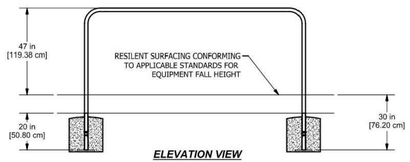
SIGN POST MUST BE OUTSIDE MAXIMUM SPACE IN WHICH THE USER AND EXERCISE EQUIPMENT COMPONENTS TRAVERSE WHEN THE EQUIPMENT IS OPERATED.

FINISHED ASSEMBLY



CONCRETE REQUIRED:
0.44 CUBIC YARDS
[0.33 CUBIC METERS]

PLAN VIEW



ELEVATION VIEW

D PARALLEL BAR

NTS

REGISTERED LANDSCAPE ARCHITECT
DEREK MCKEE
No. 4148
Signature
EXPIRATION DATE: DEC. 2022
STATE OF CALIFORNIA

VERDE DESIGN
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www.VerdeDesigninc.com

CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

CONSTRUCTION DETAILS

Approved by _____ Date _____
MARIA ESTHER CARRANZA RODRIGUEZ

Designed by _____
Drawn by VERDE
Checked by TY/DM
Job No. 2106300
Scale 1"=20'-0"
SHEET D6.2
X of 106

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

ALL IDEAS, DESIGN, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE PRIOR WRITTEN PERMISSION OF VERDE DESIGN, INC.

DRAWING NAME: Y:\Projects-SC\2021\2106300 - Watsonville Ramsay Park Improvements\cad_DTL-FITNESS_6.dwg
PLOT DATE: 07-01-22 PLOTTED BY: station78

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES
0 1 2 3 4

FENCING LEGEND

SYM	DESCRIPTION
1	EXISTING 6' TALL CHAIN LINK FENCE AT SKATE PARK
2	EXISTING 42" TALL SPLIT RAIL FENCE AT PUMP TRACK
3	EXISTING BACKSTOP AT SOFTBALL FIELD
	8' TALL CHAIN LINK FENCE
	8' TALL CHAIN LINK FENCE WITH 17' TALL NETTING (TOTAL 25' TALL)
	4' TALL CHAIN LINK FENCE
	4' TALL ORNAMENTAL FENCE
	5' TALL CHAIN LINK FENCE
	4' TALL ORNAMENTAL GUARDRAIL
	6' TALL PERFORATED PANEL ENCLOSURE
	4' TALL SPLIT RAIL FENCE

MAIN STREET

MAIN STREET

8' TALL x 12' WIDE DOUBLE GATE

8' TALL CHAIN LINK FENCE WITH 17' TALL NETTING (TOTAL 25' TALL) LENGTH: 183 LF

8' TALL CHAIN LINK FENCE WITH 17' TALL NETTING (TOTAL 25' TALL) LENGTH: 233 LF

8' TALL CHAIN LINK FENCE LENGTH: 118 LF

8' TALL CHAIN LINK FENCE LENGTH: 118 LF

8' TALL CHAIN LINK FENCE WITH 17' TALL NETTING (TOTAL 25' TALL) LENGTH: 148 LF

8' TALL CHAIN LINK FENCE WITH 17' TALL NETTING (TOTAL 25' TALL) LENGTH: 132 LF

4' TALL CHAIN LINK FENCE LENGTH: 619 LF

8' TALL CHAIN LINK FENCE LENGTH: 119 LF

4' TALL CHAIN LINK FENCE LENGTH: 306 LF

8' TALL CHAIN LINK FENCE WITH 17' TALL NETTING (TOTAL 25' TALL) LENGTH: 681 LF

8' TALL CHAIN LINK FENCE LENGTH: 208 LF

4' TALL x 4' WIDE SINGLE SWING GATE

4' TALL ORNAMENTAL FENCE LENGTH: 52 LF

5' TALL x 4' WIDE SINGLE SWING GATE

4' TALL ORNAMENTAL FENCE LENGTH: 162 LF

5' TALL CHAIN LINK FENCE LENGTH: 624 LF

4' TALL ORNAMENTAL FENCE LENGTH: 253 LF

4' TALL ORNAMENTAL GUARDRAIL LENGTH: 453 LF

8' TALL x 4' WIDE SINGLE SWING GATE

8' TALL CHAIN LINK FENCE WITH 17' TALL NETTING (TOTAL 25' TALL) LENGTH: 102 LF

8' TALL x 4' WIDE SINGLE SWING GATE

8' TALL x 12' WIDE DOUBLE GATE

6' TALL x 4' WIDE SINGLE SWING GATE

6' TALL PERFORATED PANEL ENCLOSURE

6' TALL x 8' WIDE DOUBLE GATE

4' TALL SPLIT RAIL FENCE LENGTH: 288 LF

4' TALL SPLIT RAIL FENCE LENGTH: 344 LF

4' TALL SPLIT RAIL FENCE LENGTH: 347 LF

HARKINS SLOUGH ROAD

NORTH

0 20' 40' 80' 120'

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REGISTERED LANDSCAPE ARCHITECT
DEREK MCREE
No. 4148
Signature
EXPIRATION DATE: DEC. 2022
STATE OF CALIFORNIA

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LANDSCAPE ARCHITECTURE
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CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

SITE FENCING PLAN

Approved by _____ Date _____

MARIA ESTHER CARRANZA RODRIGUEZ

Designed by TY
Drawn by DL
Checked by TY/DM

Job No. 2106300
Scale 1"=40'-0"

SHEET D7.1
X of XX

VERDE PROJECT NO. 2106300

RAMSAY PARK IMPROVEMENTS, CITY OF WATSONVILLE 65% SUBMITTAL

DRAWING NAME: Y:\Projects-SC\2021\2106300 - Watsonville Ramsay Park Improvements\CAD_FNCL.dwg
PLOT DATE: 01-20-22 PLOTTED BY: station104

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES
0 1 2 3 4

STRUCTURAL NOTES

FOUNDATION NOTES

The Geotechnical Investigation Report shall be part of the construction documents and shall be kept at the job site at all times.

Earthwork shall be in strict accordance with the recommendations of the applicable portions of the two Geotechnical Investigations and Addendums prepared for this project :

Geotechnical Investigation
Ramsay Park Improvements
Connector Trail and Nature Center
Watsonville, California
Pacific Crest Engineering, Inc., Project No. 1966.4-SZ81-F34
Dated: January 23, 2020

Supplemental Recommendations for Soccer Field
(Note: the supplemental recommendations for the soccer field seating area and the associated retaining wall in the report listed below supersede recommendations contained in the January 23, 2020 Report)
Supplemental Geotechnical Investigation
Ramsay Park Improvements
Sotomayor Soccer Field Seating
Watsonville, California
Pacific Crest Engineering, Inc., Project No. 1966.27-SZ81-F34
Dated: December 2021

Geotechnical Report Addendum No. 1
Shade Structure Foundation Recommenditions
Ramsay Park Improvements
Watsonville, California
Pacific Crest Engineering, Inc., Project No. 1966.4-SZ81-F34
Dated: December 2021

All shallow foundations shall extend at lest 24 inches below lowest adjacent grade.

Minimum footing embedment shall be measured from the lowest adjacent soil grade.

Drilled piers shall be drilled to the diameters and depths shown on the plans unless determined otherwise by the geotechnical engineer in the field.

Backfill shall not be placed behind retaining walls until 14 days after placing concrete backfill or until the concrete or grout has developed a compressive strength of not less than 3,000 psi, whichever occurs first. Permeable materials perforated pipe and filter fabric placed behind retaining walls shall be of the type specified in the Geotechnical Investigation.

Contractor shall carefully excavate all materials necessary, of whatever nature, for construction of the work. Any material of an unsuitable or deleterious nature discovered below the bottoms of the foundations shall be brought to the attention of the geotechnical engineer before proceeding with the work.

All other earthwork shall conform to the requirements of the current Building Code Chapter 33, "Safeguards During Construction" and the recommendations contained within the aforementioned report by the Geotechnical Engineer.

RETAINING WALL BACKDRAIN NOTES

Retaining walls shall be constructed with a backdrain system including perforated drain pipe surrounded by Caltrans Class 1 Type A permeable material with a minimum width of 12 inches and extending for the full height of the wall to within 1 foot of the ground surface. The top of the permeable material shall be covered with Mirafi 140N filter fabric or equivalent and then compacted native soil placed to the ground surface.

Pipe for perforated pipes shall be a minimum of 4 inch rigid SDR 35 PVC Bell and Spigot type conforming to ASTM D3034.

Pipe shall be perforated only where encapsulated in permeable material shown on the details.

Solid pipe shall be used for connection to points of discharge.

Perforations shall be two rows of ½ inch diameter holes, rows are 120 degrees apart, rows shall be parallel to the axis of the pipe and holes shall be on 5 inch centers per ASTM D2729. Perforated drain pipe shall be placed with the short segment between the two rows of holes facing down.

Fittings shall be rubber-ring gasket-type.

The perforated drain pipe shall be installed within 3 inches of the bottom of the permeable material.

Refer to Geotechnical Investigation Report Figure No. 30 "Typical Soldier Pile Wall Drain Detail" and Paragraph 87 for additional requirements.

Refer to Landscape Plans for backdrain outlets, cleanouts and connections to site storm drain system.

STRUCTURAL SPECIAL INSPECTION

Special inspection per Chapter 17 of the California Building Code will be performed by an independent testing laboratory approved by the local jurisdiction and paid by the owner for the following areas of work:

1. Steel construction per AISC 360, Section N5, "Minimum Requirements for Inspection of Structural Steel Buildings"
   - 1.1. Verification of Materials, Equipment, Welders, etc.
     - 1.1.1. Verify weld filler material identification marking per AWS designation listed on the approved construction documents and the WPS (Periodic Inspection).
     - 1.1.2. Verify weld filler material manufacturer's certificate of compliance (Periodic Inspection).
     - 1.1.3. Verify WPS, welder qualifications and equipment (Periodic Inspection).
   - 1.2. Shop and Field Welding:
     - 1.2.1. Inspect groove welds, multipass fillet welds, single pass fillet welds > 5/16", plug and slot welds (Continuous Inspection).
     - 1.2.2. Inspect single-pass fillet weld <= 5/16" (Periodic Inspection)
     - 1.2.3. NDT complete joint penetration welds
   - 1.3. Structural Steel Coating for Soldier Piles
     - 1.3.1. Tests, Inspections and Qualifications per 2018 Caltrans Standard Specifications.
2. Concrete construction per CBC Table 1705.3
   - 2.1. Reinforcement steel placement
   - 2.2. Verify use of required mix design and samples of fresh concrete
   - 2.3. Concrete placement
   - 2.4. Inspect formwork
3. See Special Inspection and Testing Agreement for a complete list of all tests and inspections

Approval by the inspector does not mean approval of failure to comply with the plans or specifications. Any detail that fails to be clear or is ambiguous must be referred to the Engineer for interpretation or clarification prior to performing the work.

OBSERVATION BY THE ENGINEER OF RECORD

Structural observation is required at the following construction milestones for work depicted on the structural drawings:

1. Reinforcing steel placement prior to placing concrete.
2. Upon Completion of Work

The structural engineer shall be notified 48 hours in advance of above milestones.

OBSERVATION BY THE GEOTECHNICAL ENGINEER OF RECORD

Geotechnical observation is required at the following construction milestones:

1. For select grading and earthwork activities
2. For all foundation excavations
3. Continuously during construction of drilled holes for soldier piles.
4. For proper placement of perforated retaining wall back drain pipes prior to placement of permeable material.
5. Compaction testing for engineered fill materials
6. Where required by the Geotechnical Investigation Report

The geotechnical engineer shall be notified 48 hours in advance of above milestones.

SUBMITTALS

Shop drawings shall be submitted for review in the following areas of work:

1. Concrete mix designs, stamped by an engineer licensed in the State of California
2. Concrete pumping/tremie system
3. Reinforcing shop drawings
4. Structural steel shop drawings
5. For all substitutions

Shop drawings for fabrication of components shall not utilize copies of the Engineer's drawings.

All submittals shall be reviewed and checked by the Contractor prior to submittal. Contractor shall stamp and sign each submittal indicating they have reviewed, checked and approved the submittal for compliance with all the requirements of the plans and specifications.

ABBREVIATIONS

AB	Anchor Bolt	HDR	Header
ACI	American Concrete Institute	HORIZ	Horizontal
AISC	American Institute of Steel Construction	ID	Inside Diameter
AITC	American Institute of Timber Constr.	IN	Inch
ALT	Alternate	JST(S)	Joist(s)
APA	American Plywood Association	KP	King Post
APPROX	Approximately	L	Angle
ARCH	Architect	LB	Pound
ASTM	American Society for Testing & Materials	LL	Live Load
AVG	Average	LTWT	Light Weight
B/O	Bottom Of	MAX	Maximum
BLDG	Building	MB	Machine Bolt
BLK(G)	Block(ing)	MECH	Mechanical
BM	Beam	MISC	Miscellaneous
BN	Boundary nailing	MIN	Minimum
BOT	Bottom	MTL	Metal
BTWN	Between	NS&FS	Near Side And Far Side
BVL	Bevel	NTS	Not To Scale
C	Channel	OC	On Center
CANT	Cantilever	OD	Outside Diameter
CB	Carriage Bolt	P	Post
CBC	California Building Code	PERT	Pre-Engineered Roof Truss
CC	Center to Center	PJP	Partial Joint Penetration
CJ	Control Joint	PL	Plate
CL	Center Line	PLY	Plywood
CLG	Ceiling	PMR	Per Manufacturers Recommendations
CLR	Clear, Clearance	PSF	Pounds per Square Foot
CMU	Concrete Masonry Unit	PSI	Pounds per Square Inch
COL	Column	PTDF	Preservative Treated Douglas Fir
CJP	Complete Joint Penetration	R	Radius
CONC	Concrete	RC	Relative Compaction
CONN	Connection	REINF	Reinforcement
CONT	Continuous	REQD	Required
CSLM	Controlled Low Strength Material	RET	Retaining
CTR	Center	R&R	Remove And Replace
CVR	Cover	RR	Roof Rafter
DBL	Double	RS	Rough Sawn
DEG	Degree	RWD	Redwood
DET	Detail	SAD	See Architectural Drawings
DF	Douglas Fir	SCH	Schedule
DIA	Diameter	SECT	Section
DIAG	Diagonal	SEL	Select
DIM	Dimension	SF	Square Foot
DL	Dead Load	SHRWL	Shear wall
DN	Down	SHTG	Sheathing
DWG	Drawing	SIM	Similar
EA	Each	SLD	See Landscape Drawings
EF	Each Face	SPEC	Specifications
EL	Elevation	SQR	Square
ELEV	Elevation	STD	Standard
EN	Edge Nail	STL	Steel
ENGR	Engineer	STRUCT	Structural
EOR	Engineer Of Record	T	Tee Section
ES	Each Side	T/O	Top Of
EW	Each Way	T&G	Tongue And Groove
EX	Existing	T&B	Top And Bottom
EXT	Exterior	TN	Toe Nail
FG	Finish Grade	TOC	Top Of Concrete
FJ	Floor Joist	TOF	Top Of Footing
FLR	Floor	TOS	Top Of Steel
FN	Field nailing	TOW	Top Of Wall
FDN	Foundation	TYP	Typical
FOC	Face Of Concrete	UNO	Unless Noted Otherwise
FOS	Face Of Steel/Stud	VERT	Vertical
FRMG	Framing	VIF	Verify In Field
FS	Finsihed Surface	W	Wide flange steel beam
FT	Foot or Feet	W/	With
FTG	Footing	W/O	Without
GA	Gauge	WP	Work Point
GALV	Galvanized	WWF	Welded Wire Fabric
GLB	Glulam Beam		
HD	Holdown		

STRUCTURAL DESIGN NOTES

WIND DESIGN CRITERIA PER :
ASCE 7-16
BASIC WIND SPEED 110 MPH
WIND EXPOSURE C
RISK CATEGORY II

EARTHQUAKE DESIGN CRITERIA PER:
PACIFIC CREST ENGINEERING INC., PROJECT NO. 1966.4-SZ81-F34
"RAMSAY PARK IMPROVEMENTS CONNECTOR TRAIL AND NEW NATURE CENTER"
DATED: JANUARY 2020

SEISMIC DESIGN CATEGORY D
SITE CLASS D
Ss , S1 , SDs , SD1 2.525, 0.957, 1.648, N/A

SOIL DESIGN CRITERIA FOR DRILLED PIERS
SUPPORTING POLE STRUCTURES AND FENCES PER:
PACIFIC CREST ENGINEERING, INC., PROJECT NO. 1966.4-SZ81-F34
GEOTECHNICAL REPORT ADDENDUM NO. 1
"SHADE STRUCTURE FOUNDATION RECOMMENDATIONS"
DATED: DECEMBER 2021

NEGLECT SKIN FRICTION FROM: UPPER 2' OF EMBEDMENT
SKIN FRICTION (DL+LL): 350 PSF
SKIN FRICTION (DL + LL+ W OR E): 465 PSF
NEGLECT PASSIVE PRESSURE: UPPER 2' OF EMBEDMENT
PASSIVE PRESSURE: 300 PSF/FT EFP
PASSIVE RESISTANCE APPLIED OVER: 2X PIER DIAMETERS
MINIMUM PIER EMBEDMENT INTO COMPETENT NATIVE SOIL 4 FEET

RETAINING WALL DESIGN CRITERIA FOR SOCCER FIELD PER:
PACIFIC CREST ENGINEERING, INC., PROJECT NO. 1966.27-SZ81-F34
SUPPLEMENTAL GEOTECHNICAL REPORT
"SEATING FOR SOTOMAYOR SOCCER FIELD"
DATED: DECEMBER 2021

ACTIVE PRESSURE: 55 PSF/FT LEVEL, 55 PSF/FT 4:1, 60 PSF/FT 3:1,
PASSIVE PRESSURE: 375 PSF/FT ACTING ON 1X PIER DIAMETER
NEGLECT PASSIVE PRESSURE: NEGLECT PASSIVE IN THE UPPER 1.5 FT

NEGLECT SKIN FRICTION FROM: UPPER 1.5' OF EMBEDMENT
SKIN FRICTION (DL+LL): 500 PSF
SKIN FRICTION (DL + LL+ W OR E): 665 PSF
PIER SPACING: 3 DIAMETERS MINIMUM
LIVE LOAD SURCHARGE: 2 FEET OF ADDITIONAL SOIL
SEISMIC LOADING: ASD = 0.7x(15H²) lbs. acting at 0.33H
(seismic loading is non-concurrent with live load)
MINIMUM PIER DEPTH: 1.5x Retained Height or 5 feet, whichever is greater

RETAINING WALL DESIGN CRITERIA FOR PLAYGROUND:

?

MATERIAL SPECIFICATIONS

STRUCTURAL STEEL & MISCELLANEOUS IRON:

NETTING POSTS: ASTM A53 Gr. B

BACKSTOP POSTS: ASTM A53 Gr. B

CHAINLINK FENCE POSTS: ASTM F1083, UNLESS NOTED OTHERWISE

OTHER SHAPES AND PLATES: ASTM A36

WELDING ELECTRODES: E70XX

CONCRETE:

NORMAL WEIGHT: f'c = 4,000 PSI MIN

REBAR: ASTM A615, GRADE 60

SEE PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

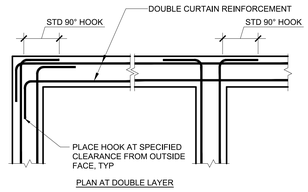
SPECIFIED CONCRETE COVER OVER REINFORCING BARS

USE CLEAR COVER SPECIFIED BELOW
UNLESS NOTED OTHERWISE ON PLANS OR DETAILS

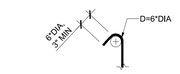
USE:	CLEAR COVER:
CAST AGAINST & PERMANENTLY EXPOSED TO EARTH	3"
FORMED, EXPOSED TO EARTH OR WEATHER	2"

SPECIFIED LAP SPLICE LENGTH (Ld)

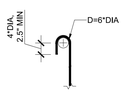
BAR SIZE	BAR Ø	STEEL STRENGTH (fy)	NOT USED	f'c = 4000 psi TOP BARS	f'c = 4000 psi OTHER BARS	NOT USED
#4	0.500"	60ksi		32"	25"	
#5	0.625"	60ksi		40"	31"	
#6	0.750"	60ksi		48"	37"	
#7	0.875"	60ksi		70"	54"	
#8	1.000"	60ksi		80"	62"	
#9	1.128"	60ksi		91"	70"	



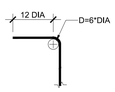
PLAN AT DOUBLE LAYER



TYPICAL 135° HOOK FOR STIRRUPS AND TIES



TYPICAL 180° HOOK



TYPICAL 90° HOOK

REBAR LAP SPLICE SCHEDULE AND TYPICAL REINFORCING DETAILS 1

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Phone (831) 426-3186

CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

STRUCTURAL DETAILS

Approved by MARIA ESTHER CARRANZA RODRIGUEZ Date

Designed by X
Drawn by X
Checked by X

Job No. 21126
Scale AS NOTED

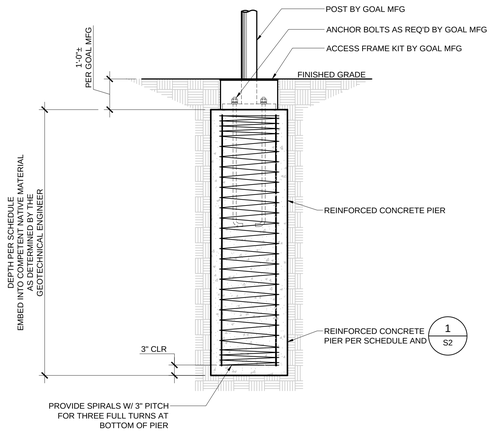
SHEET S1 of XX

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

DRAWING NAME: I:\21126 Verde — Ramsey Park Renovation\dwg\S1 Design Criteria.dwg
PLOT DATE: 06-30-22 PLOTTED BY: phil

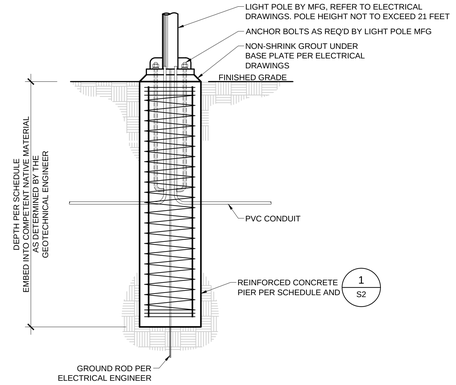
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4



FOOTBALL
GOAL POST FOUDATION

SCALE: NOT TO SCALE

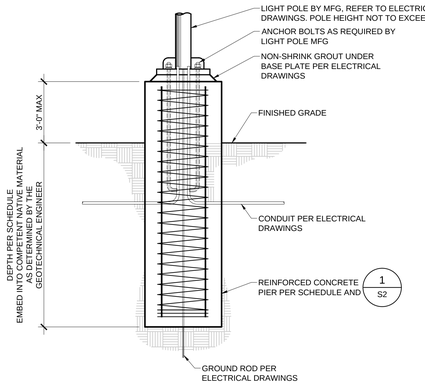
4



PATHWAY
LIGHT POLE FOUNDATION

SCALE: 1/2" = 1'-0"

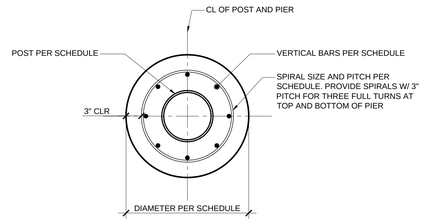
3



PARKING LOT
LIGHT STANDARD FOUNDATION

SCALE: 1/2" = 1'-0"

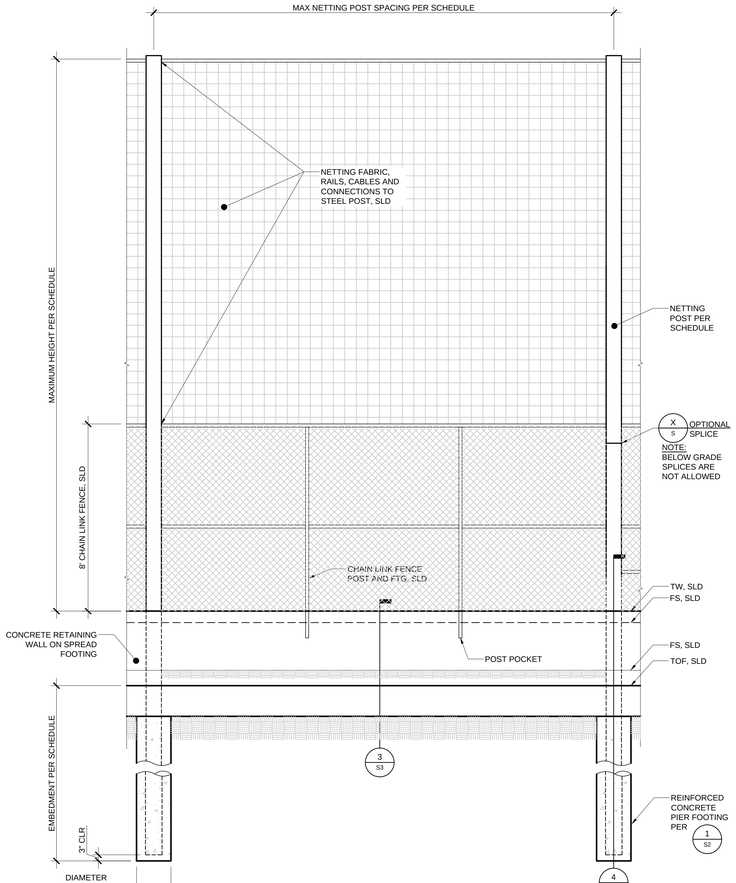
2



TYPICAL REINFORCED
PIER CROSS SECTION

SCALE: 1" = 1'-0"

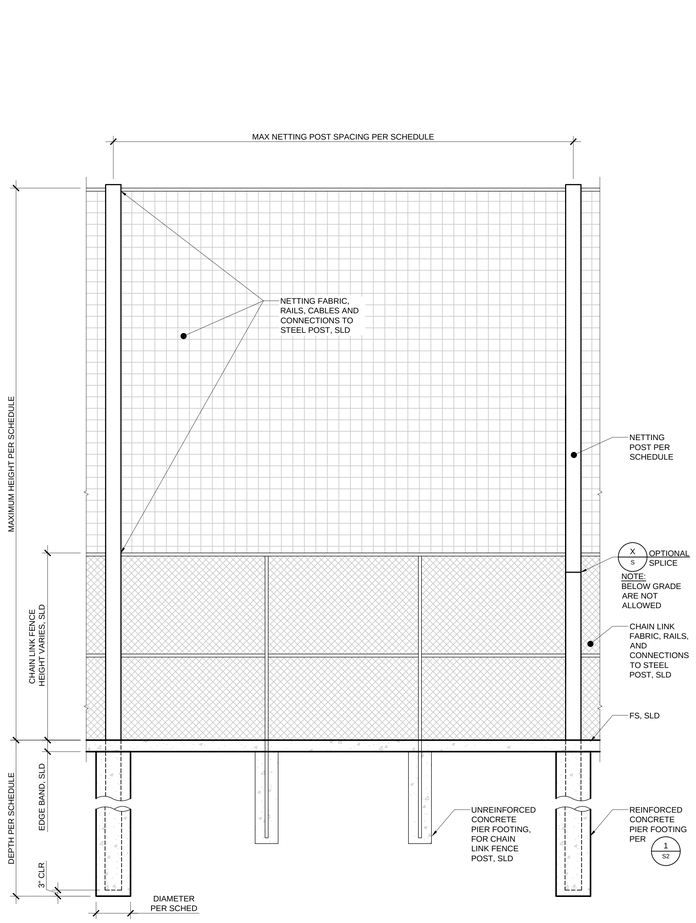
1



PROTECTIVE NETTING
AT RETAINING WALL

SCALE: 3/8" = 1'-0"

6



PROTECTIVE NETTING
WITH EDGE BAND

SCALE: 3/8" = 1'-0"

5

STRUCTURAL SCHEDULES

STRUCTURAL POST AND FOOTING SCHEDULE

POLE TYPE	LINE POST	CORNER/ END POST	HEIGHT	SPACING	PIER Ø x DEPTH	VERT REINF	SPIRAL REINF	REMARKS
LIGHT POLE (PARKING)	POST SIZE: PER DETAIL X/DX.X		21'-0" MAX	NOT APPLICABLE	24"Ø x 6'-0"	(8) #5	#3 @ 6" PITCH	DETAIL 2/S3
LIGHT POLE (PATHWAY)	POST SIZE: PER DETAIL X/DX.X		15'-0" MAX	NOT APPLICABLE	24"Ø x 5'-0"	(8) #5	#3 @ 6" PITCH	DETAIL 3/S3
SCOREBOARD	POST SIZE: PER DETAIL X/DX.X		14'-0" MAX	NOT APPLICABLE	24"Ø x X'-XX"	(8) #5	#3 @ 6" PITCH	DETAIL 4/S2
17' OF NETTING OVER 8' CHAIN LINK	8" XS ASTM A53 **B**	8" XS ASTM A53 **B**	25'-0" MAX	24'-0" MAX	24"Ø x X'-X"	(8) #5	#3 @ 6" PITCH	DETAIL 5/S1
17' OF NETTING OVER 8' CHAIN LINK ON MAX 4'-6" RETAINING WALL	8" XS ASTM A53 **B**	8" XS ASTM A53 **B**	29'-6" MAX	24'-0" MAX	24"Ø x X'-X"	(8) #5	#3 @ 6" PITCH	DETAIL 6/S1

NOTES:
1. HEIGHT REFERS TO TOTAL HEIGHT ABOVE GRADE, SEE LANDSCAPE PLANS.
2. DEPTH REFERS TO DEPTH OF PIER BELOW GRADE UNLESS NOTED OTHERWISE ON THE DETAIL.
3. REFER TO DETAILS FOR ADDITIONAL REINFORCING REQUIREMENTS

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CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

STRUCTURAL DETAILS

Approved by _____ Date _____
MARIA ESTHER CARRANZA RODRIGUEZ

Designed by X
Drawn by X
Checked by X

Job No. 21126
Scale AS NOTED

SHEET S2
of XX

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

DRAWING NAME: I:\21126 Verde – Ramsey Park Renovation\dwg\S2 Pole Foundations.dwg
PLOT DATE: 06-30-22 PLOTTED BY: phil

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES
0 1 2 3 4

WALL DIMENSIONS - 2:1 MAX BACKSLOPE

HEIGHT 'H'	FOOTING WIDTH 'W'	TOE WIDTH 'T'	KEY DEPTH 'K'	FTG THICK-NESS, 'F'	STEM THICKNESS 'S'	DETAIL
3' MAX	NOT APPLICABLE					
4' MAX					12"	X/SX
6' MAX					12"	X/SX
8' MAX					12"	X/SX
10' MAX					12"	X/SX

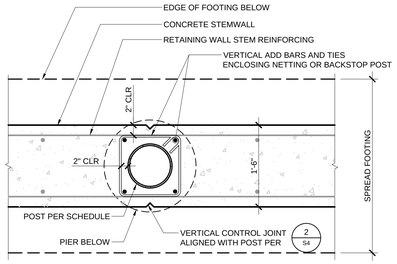
REINFORCING

HEIGHT 'H'	WALL			FOOTING		KEY
	'A' BARS	'B' BARS	'C' BARS	'D' BARS	'E' BARS	'K' BARS
3' MAX	NOT APPLICABLE					
4' MAX	#5 @ 16"	#4 @ 16"	#4 @ 16"	#5 @ 16"	#5 @ 16"	#5 @ 16"
6' MAX	#5 @ 12"	#4 @ 16"	#4 @ 16"	#5 @ 12"	#5 @ 16"	#5 @ 12"
8' MAX	#6 @ 12"	#4 @ 16"	#4 @ 16"	#6 @ 12"	#5 @ 16"	#6 @ 12"
10' MAX	#6 @ 12"	#4 @ 16"	#4 @ 16"	#6 @ 12"	#5 @ 16"	#6 @ 12"

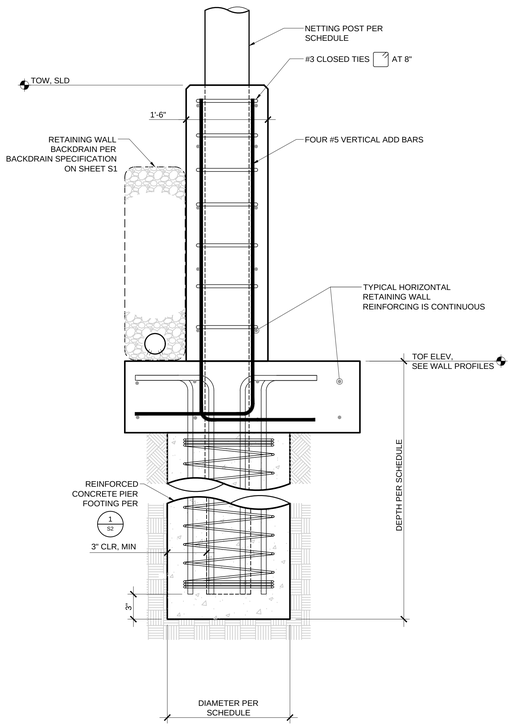
DETAIL 1/S3 AND DETAIL 2/S3
RETAINING WALL SCHEDULE

SCALE: NTS

NOTES
1. THE BOTTOM OF FOOTING EXCAVATIONS SHALL BE FIRM, CLEAN AND FREE OF ANY LOOSE OR YIELDING SOILS. FOOTINGS SHALL BE POURED IN NEAT EXCAVATIONS WITHOUT THE USE OF SIDE FORMS. CAST TOE/KEY CONCRETE AGAINST UNDISTURBED NATIVE MATERIAL EXCEPT AS APPROVED BY THE GEOTECHNICAL ENGINEER.
2. THE FOOTING EXCAVATIONS SHALL BE THOROUGHLY SATURATED PRIOR TO PLACING CONCRETE.
3. AT THEIR OPTION, THE CONTRACTOR IS PERMITTED TO USE CONTINUOUS VERTICAL BARS FROM FOUNDATION TO TOP OF WALL . WHERE FOOTING DOWELS ARE USED, ALL VERTICAL BARS SHALL BE LAP SPLICED AND FOOTING DOWELS SHALL BE OF THE SAME SIZE AND SPACING AS BARS ABOVE.



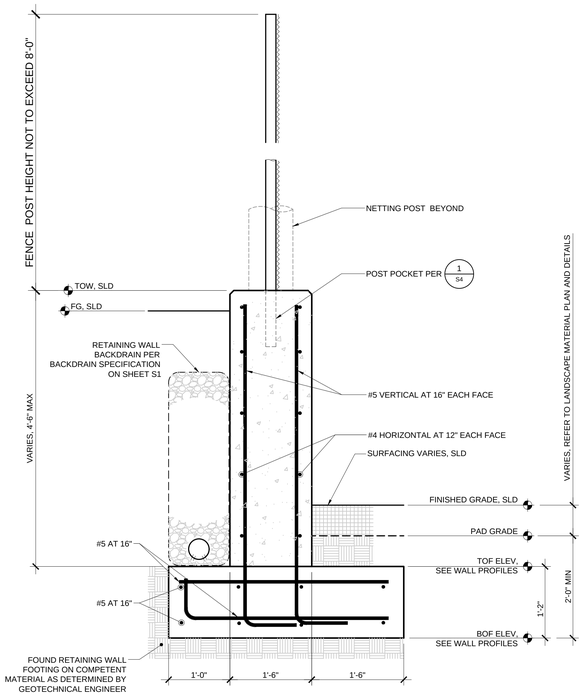
PLAN VIEW AT NETTING POST



RETAINING WALL WITH PROTECTIVE NETTING

SCALE: 1" = 1'-0"

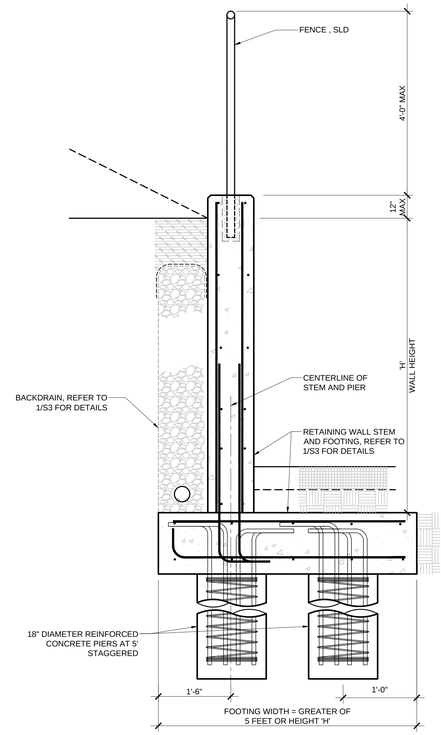
4



RETAINING WALL WITH PROTECTIVE NETTING

SCALE: 1" = 1'-0"

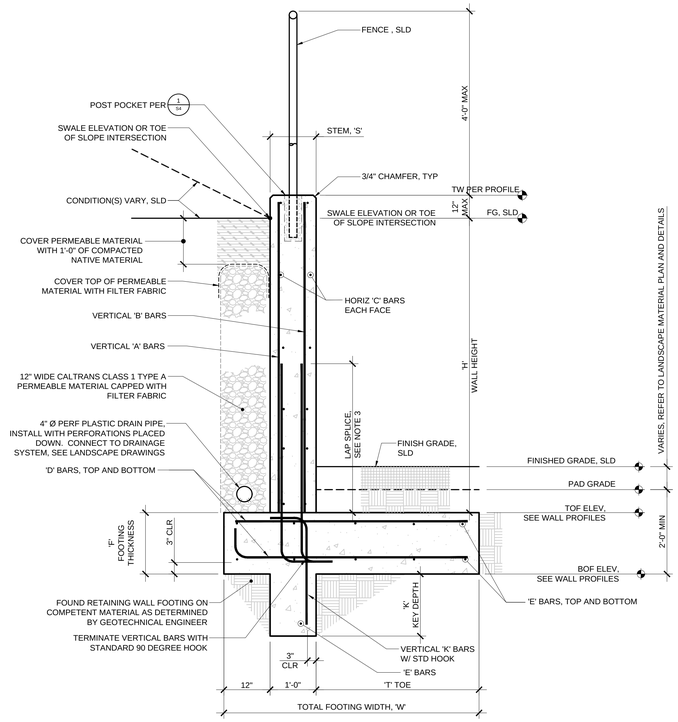
3



SPREAD FOOTING RETAINING WALL WITH PIER OPTION

SCALE: 3/4" = 1'-0"

2



SPREAD FOOTING RETAINING WALL

SCALE: 3/4" = 1'-0"

1

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PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

STRUCTURAL DETAILS

Approved by _____ Date _____
MARIA ESTHER CARRANZA RODRIGUEZ

Designed by X
Drawn by X
Checked by X

Job No. 21126
Scale AS NOTED

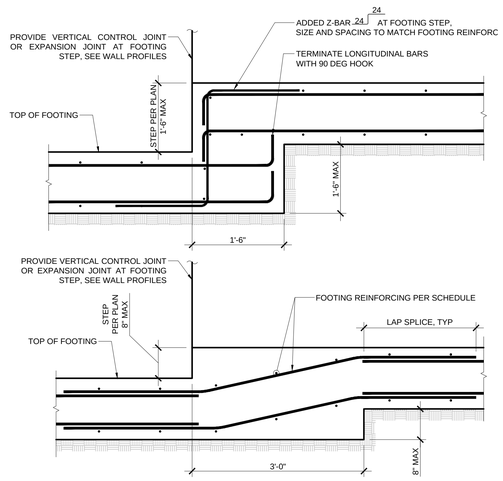
SHEET S3
of XX

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

DRAWING NAME: I:\21126 Verde - Ramsey Park Renovation\dwg\S3 Soccer Field Retaining Wall.dwg
PLOT DATE: 06-30-22 PLOTTED BY: phil

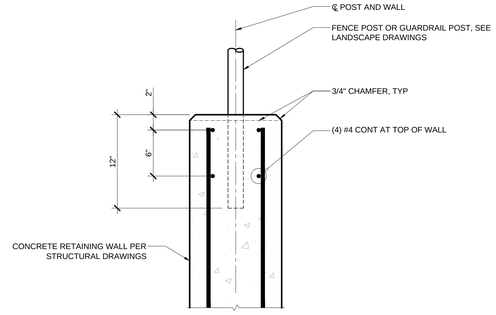
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES
0 1 2 3 4



STEPPED WALL FOOTING

SCALE: NTS

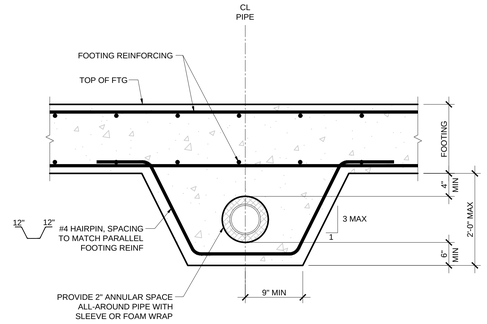
4



TYPICAL FENCE POST POCKET

SCALE: 1 1/2" = 1'-0"

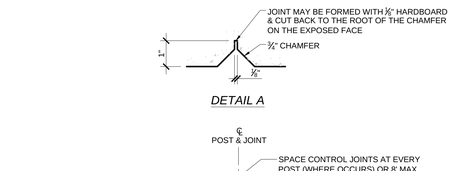
1



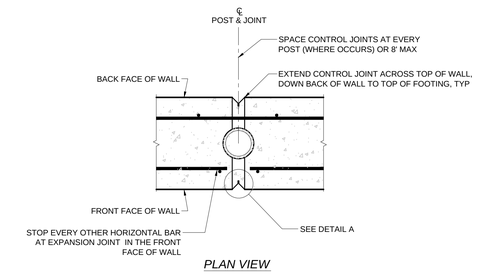
TYP PIPE BELOW FOOTING

SCALE: NTS

5



DETAIL A

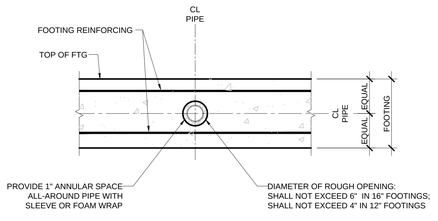


PLAN VIEW

VERTICAL CONTROL JOINT

SCALE: NTS

2

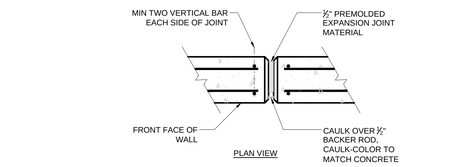


NOTES:
1. ALL PIPES PASSING THRU FOOTINGS SHALL BE ORIENTED PERPENDICULAR TO FOOTING AT POINT OF CROSSING.
2. CROSSINGS AT AN ANGLE TO FOOTING OR PARALLEL TO FOOTING ARE NOT PERMITTED

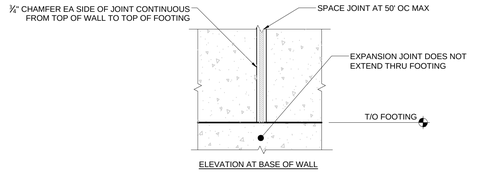
TYP PIPE THROUGH FOOTING

SCALE: NTS

6



PLAN VIEW



ELEVATION AT BASE OF WALL

RET WALL EXPANSION JOINT

SCALE: NTS

3

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CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

STRUCTURAL DETAILS

Approved by _____ Date _____
MARIA ESTHER CARRANZA RODRIGUEZ

Designed by X
Drawn by X
Checked by X

Job No. 21126
Scale AS NOTED

SHEET S4
of XX

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

DRAWING NAME: I:\21126 Verde - Ramsay Park Renovation\dwg\S4 Concrete Typical Details.dwg
PLOT DATE: 06-30-22 PLOTTED BY: phil

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES
0 1 2 3 4

GENERAL NOTES:

1. READ THE COMPLETE SPECIFICATIONS, CONTRACT DOCUMENTS AND COMPLY WITH EACH REQUIREMENTS.
2. THE COMPLETE ELECTRICAL INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE N.E.C., AND ALL APPLICABLE STATE AND LOCAL CODES ISSUED BY AUTHORITIES HAVING JURISDICTION.
3. THE CONTRACTOR SHALL BE LICENSED BY THE STATE OF CALIFORNIA C-10 AND SHALL COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS. MATERIALS AND EQUIPMENT SHALL BE U.L. LISTED AND LABELED FOR THE APPLICATION.
4. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND INSPECTION FEES REQUIRED BY THIS CONTRACT WORK.
5. PRIOR TO SUBMITTING A BID THE CONTRACTOR SHALL VISIT THE SITE, REVIEW THE EXISTING CONDITIONS AND ALLOW FOR LABOR, MATERIAL AND COORDINATION THAT IS NECESSARY TO PROVIDE A COMPLETE INSTALLATION OF EACH SYSTEM. THE CONTRACTOR SHALL OBTAIN AND BE FAMILIAR WITH ALL OTHER TRADES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL WORK NOTED AND CALLED OUT ON ALL CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION BETWEEN OTHER TRADES ON PROJECT.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONS AND PROPERTY AND SHALL PROVIDE INSURANCE COVERAGE AS NECESSARY FOR LIABILITY, PERSONAL, PROPERTY DAMAGE TO FULLY PROTECT THE OWNER, ARCHITECT AND ENGINEER FROM ANY AND ALL CLAIMS RESULTING FROM THIS WORK.
7. THE CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS AT THE PROJECT SITE INDICATING ALL MODIFICATIONS TO ELECTRICAL SYSTEMS. THE CONTRACTOR SHALL AT THE CONCLUSION OF THE PROJECT PROVIDE ACCURATE "AS-BUILT" DRAWINGS. "AS-BUILT" DRAWINGS SHALL SHOW ACTUAL CHANGES TO ORIGINAL ELECTRICAL DRAWING, SHOW LOCATIONS OF PULLBOXES, CONDUIT RUNS AND WIRING CHANGES.
8. ALL MATERIALS PROVIDED TO THE PROJECT SHALL BE UL OR CSA LISTED AND SHALL BE NEMA. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL ALL INCIDENTAL MATERIALS REQUIRED FOR A COMPLETE INSTALLATION.
9. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED "CUTTING, PATCHING, EXCAVATION, BACKFILL AND REPAIRS" NECESSARY TO RESTORE DAMAGED SURFACES TO EQUAL OR BETTER THAN ORIGINAL CONDITIONS EXISTING AT START OF WORK. THE CONTRACTOR SHALL CONTACT "UNDERGROUND SERVICES ALERT" FOR LOCATION OF EXISTING UTILITIES PRIOR TO COMMENCEMENT OF UNDERGROUND WORK.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAINTING ALL EXPOSED CONDUITS AND ELECTRICAL EQUIPMENT. REFER TO ARCHITECTS PAINTING SECTION FOR REQUIREMENTS.
11. ALL ELECTRICAL EQUIPMENT INSTALLED OUTDOORS SHALL BE WEATHERPROOF. EXTERIOR CONDUITS RUN INTO BUILDINGS SHALL BE INSTALLED WITH FLASHING, CAULKED AND SEALED. CONDUITS FOR EXTERIOR ELECTRICAL DEVICES SHALL BE RUN INSIDE BUILDING UNLESS OTHERWISE NOTED ON DRAWINGS. ALL EXTERIOR CONDUITS SHALL BE "RSG" UNLESS OTHERWISE NOTED ON DRAWINGS.
12. ALL CONDUITS UNLESS OTHERWISE NOTED ON DRAWINGS SHALL HAVE AS A MINIMUM, TWO (2) #12'S WITH ONE (1) #12 GROUND. "TICK" MARKS SHOWN ON CIRCUITRY ARE FOR "ROUGH" ESTIMATING ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WIRES AND WIRE SIZES REQUIRED BY LATEST CODE.
13. COORDINATE ALL CONDUIT RUNS, ELECTRICAL EQUIPMENT AND PANELS WITH ALL OTHER WORK TO AVOID CONFLICTS.
14. ELECTRICAL EQUIPMENT SHOWN ON THIS DRAWING HAS BEEN SELECTED BASED ON DIMENSIONS TO FIT THE SPACE, THE CONTRACTOR SHALL VERIFY ALL EQUIPMENT DIMENSIONS PRIOR TO ORDERING OF THE EQUIPMENT.
15. CONTRACTOR SHALL REVIEW EQUIPMENT REQUIREMENTS OF OTHER TRADES AND PROVIDE POWER CIRCUITS AND CONNECTIONS TO ELECTRICALLY OPERATED EQUIPMENT.
16. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF UNDERGROUND POWER AND TELEPHONE SERVICES FROM SERVING UTILITIES. FIELD ADJUSTMENTS MAY BE REQUIRED IN INDIVIDUAL SERVICE LOCATIONS.
17. THE CONTRACTOR SHALL CONTACT "UNDERGROUND SERVICES ALERT" FOR LOCATION OF EXISTING UTILITIES PRIOR TO COMMENCEMENT OF UNDERGROUND WORK.
18. NEW DUCT ROUTES ARE APPROXIMATE ONLY AND MAY BE ADJUSTED IN THE FIELD TO CLEAR OTHER UNDERGROUND UTILITIES. PROVIDE AS-BUILT DRAWINGS TO INDICATE ACTUAL LOCATION OF CONDUIT ROUTING.
19. EFFECTIVELY BOND ELECTRICAL CABINETS, ENCLOSURES AND CONDUIT RACEWAYS TO CODE APPROVED GROUND AS PART OF THE CONTINUOUS GROUNDING SYSTEM.
20. FROM ALL NEW PANELS; THE CONTRACTOR SHALL STUB UP INTO ACCESSIBLE CEILING SPACE A MINIMUM OF FOUR (4) 3/4" CONDUITS FOR FUTURE USE.
21. UTILITY SERVICE WORK SHALL BE IN ACCORDANCE WITH THE SERVING UTILITY COMPANY'S RULES, REGULATIONS AND STANDARDS, AND SHALL BE VERIFIED WITH UTILITY COMPANY'S ENGINEERING DRAWINGS AND FIELD SUPERVISOR PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR SHALL DETERMINE EXACT LOCATION OF UNDERGROUND POWER, CATV AND TELEPHONE SERVICES FROM SERVING UTILITIES. FIELD ADJUSTMENTS MAY BE REQUIRED IN INDIVIDUAL SERVICE LOCATIONS. THE CONTRACTOR SHALL REMAIN IN CONTACT WITH UTILITY COMPANY ENGINEERING DEPARTMENTS THROUGHOUT PROJECT TO INSURE COORDINATION AND SCHEDULING OF WORK.
22. THE CONTRACTOR SHALL PROVIDE IN EVERY CONDUIT A DRAW STRING FOR USE IN FUTURE CONSTRUCTION. STRING SHALL BE NYLON PULLSTRING ROPE/STRING.
23. POWER FEEDERS MAY NOT BE SHOWN ON THE DRAWINGS, REFER TO THE SINGLE LINE DIAGRAM FOR CONDUIT AND FEEDER INFORMATION. ALL DRAWINGS ARE DIAGRAMMATIC INDICATING LOCATION OR POSITION OF EQUIPMENT. FIELD VERIFY CONDITIONS PRIOR TO INSTALLATION OF ANY WORK.
24. MANUFACTURER'S RECOMMENDATIONS FOR CONDUCTOR SIZING, CIRCUIT BREAKER OR FUSE PROTECTION OF ELECTRICALLY OPERATED EQUIPMENT MAY DIFFER FROM THOSE INDICATED ON DRAWINGS. CONTRACTOR SHALL CONFIRM RATINGS PRIOR TO ORDERING EQUIPMENT. PROVIDE ELECTRICAL PROTECTION TO EQUIPMENT IN ACCORDANCE TO MANUFACTURER'S SPECIFICATIONS AND PER NATIONAL ELECTRICAL CODE REQUIREMENTS.
25. PROVIDE SEISMIC BRACING FOR ALL PENDANT LIGHT FIXTURES, FREESTANDING ELECTRICAL DISTRIBUTION EQUIPMENT, MOTOR CONTROL CENTERS ETC, AND CONDUIT RACKS PER SEISMIC CRITERIA 2001 CBC REQUIREMENTS INCLUDING ENGINEERED LOAD CALCULATIONS COMPLETE WITH SWAY BRACING CRITERIA.
26. DO NOT SUBSTITUTE SPECIFIED MATERIAL OR EQUIPMENT WITHOUT FIRST OBTAINING APPROVAL FROM THE OWNER OR HIS REPRESENTATIVE.
27. ALL SPACES ON PANELS OR SWITCHBOARDS SHALL BE COMPLETE WITH HARDWARES AND BUSSING FOR FUTURE BREAKER OR SWITCH.
28. ALL ELECTRICAL WORK SHALL COMPLY WITH THE 2019 NATIONAL ELECTRICAL CODE AS AMENDED BY THE 2019 CALIFORNIA ELECTRICAL CODE.

SYMBOL LIST:

- PLAN, DETAIL OR SECTION DESIGNATION.
- ROOM NUMBER.
- SHEET REFERENCE SYMBOL - SEE ASSOCIATED NOTE ON SAME SHEET.
- FEEDER SCHEDULE SYMBOL.
- MECHANICAL EQUIPMENT TAG.
- INDICATES FIXTURE TYPE

LUMINAIRE SYMBOLS

- LUMINAIRE - SEE SCHEDULE.
- LUMINAIRE - SEE SCHEDULE.
- LUMINAIRE - SEE SCHEDULE.
- LUMINAIRE - SEE SCHEDULE.
- LUMINAIRE - SEE SCHEDULE.
- LUMINAIRE WALL MOUNTED-SEE SCHEDULE.
- EMERGENCY LUMINAIRE - PROVIDE EMERGENCY BATTERY BALLAST
- EMERGENCY LUMINAIRE - PROVIDE EMERGENCY BATTERY BALLAST
- EMERGENCY LUMINAIRE - PROVIDE EMERGENCY BATTERY BALLAST
- EMERGENCY LUMINAIRE - PROVIDE EMERGENCY BATTERY BALLAST
- EMERGENCY LUMINAIRE WALL MOUNTED- PROVIDE EMERGENCY BATTERY BALLAST
- EXIT LIGHT SINGLE FACE - SEE SCHEDULE.
- EXIT LIGHT SINGLE FACE (WITH ARROW)- SEE SCHEDULE.
- EXIT LIGHT (DOUBLE FACED WITH ARROW)- SEE SCHEDULE.
- COMBO EMERGENCY LIGHT/ EXIT LIGHT SINGLE FACE - SEE SCHEDULE.
- EMERGENCY BATTERY PACK EXIT LIGHT INSTALL AS DIRECTED.

TYPICAL LUMINAIRE NOMENCLATURE

- 3a — INDICATES SWITCHING DESIGNATION
- INDICATES CIRCUIT NUMBER

SWITCH SYMBOLS

- $ — SINGLE POLE SWITCH, + 48" AFF UON.
- $a — SINGLE POLE SWITCH, + 48" AFF UON, a = CIRCUIT CONTROLLED.
- $3 — THREE WAY SWITCH + 48" AFF UON.
- $4 — FOUR WAY SWITCH + 48" AFF UON.
- $ — MOTOR RATED SWITCH
- OS — OCCUPANCY SENSOR
- P — OCCUPANCY SENSOR POWER PACK

RECEPTACLE SYMBOLS

- CONVENIENCE RECEPTACLE - DUPLEX AT + 18" AFF UON.
- GFCI CONVENIENCE RECEPTACLE - DUPLEX.
- RECEPTACLE DOUBLE DUPLEX AT + 18" AFF UON.
- SINGLE RECEPTACLE - NEMA 5-20R UON, AT + 18" AFF UON.
- SINGLE RECEPTACLE - NEMA L21 - 208 VOLT, THREE PHASE, 5 WIRE, AT + 18" AFF UON.
- FLOOR BOX WITH CONVENIENCE RECEPTACLE, TELEPHONE AND DATA OUTLET.
- FLUSH FLOOR BOX WITH SINGLE CONVENIENCE RECEPTACLE.
- WIRE RACEWAY, INSTALL AT + 36" AFF UON.

IN-GRADE PULL BOXES

- L — IN-GRADE PULL BOX IDENTIFIED WITH "L" HAS A LID LABELED "LIGHTING".
- S — IN-GRADE PULL BOX IDENTIFIED WITH "S" HAS A LID LABELED "SIGNAL".
- P — IN-GRADE PULL BOX IDENTIFIED WITH "P" HAS A LID LABELED "ELECTRICAL".
- E — IN-GRADE PULL BOX IDENTIFIED WITH "E" HAS A LID LABELED "EMERGENCY LIGHTING".

POWER DISTRIBUTION SYMBOLS

- PANELBOARD - SURFACE OR FLUSH MOUNTED.
- JUNCTION BOX - CEILING OR WALL MOUNTED, SIZE TO CODE, TAPE AND TAG WIRES. PROVIDE FLEX AND/OR RECEPTACLE AS REQUIRED TO CONNECT EQUIPMENT.
- DISTRIBUTION PANEL
- M — MOTOR
- 30 — COMBINATION MAGNETIC STARTER FUSED DISCONNECT SWITCH, RATING AS INDICATED.
- 60 — UNFUSED DISCONNECT SWITCH - RATING AS INDICATED.
- 100 — FUSED DISCONNECT SWITCH - SIZE FUSES PER MOTOR MANUFACTURER'S RECOMMENDATIONS, RATING AS INDICATED.
- II — MAGNETIC STARTER - NEMA SIZE INDICATED.
- TRANSFORMER - SEE SINGLE LINE FOR SIZE.
- GROUND ROD.
- P — IN-GRADE ELECTRICAL PULL BOX WITH TRAFFIC RATED LID.
- L — IN-GRADE LIGHTING PULL BOX WITH TRAFFIC RATED LID.
- S — IN-GRADE SIGNAL PULL BOX WITH TRAFFIC RATED LID.

WIRING & CONDUIT RUN SYMBOLS

- CONDUIT - CONCEALED IN WALLS OR CEILING.
- CONDUIT - EXPOSED.
- CONDUIT - IN OR BELOW FLOOR; 3/4"MIN.
- #10 — WITH "#10" INDICATES WIRE SIZE OTHER THAN #12'S.
- FLEX CONDUIT WITH CONNECTION.
- CONDUIT - STUB UP.
- CONDUIT - STUB DOWN.
- CONDUIT EMERGENCY SYSTEM.
- CAPPED CONDUIT.
- CONDUIT CONTINUATION.

POWER DISTRIBUTION SINGLE LINE SYMBOLS

- CIRCUIT BREAKER.
- M — "PG&E" METER W/ CURRENT TRANSFORMER.
- TRANSFORMER.

ABBREVIATIONS:

A	AMPERE
ABV	ABOVE
AF	AMP FRAME OR AMP FUSE
AFF	ABOVE FINISHED FLOOR
ARCH	ARCHITECTURAL
AS	AMP SWITCH
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
BKR	BREAKER
BLDG	BUILDING
C	CONDUIT
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CD	CANDELAS
CKT	CIRCUIT
CL	CENTER LINE
CLG	CEILING
CO	CONDUIT ONLY
CTR	CENTER
(D)	DEMOLISH
DET	DETAIL
DIM	DIMENSION
DISTR	DISTRIBUTION
DWG	DRAWING
(E)	EXISTING
EM	EMERGENCY
EQPT	EQUIPMENT
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
(F)	FUTURE
FIN	FINISH
FL	FLOOR
G, GND	GROUND
HGT	HEIGHT
HP	HORSEPOWER
IC	INTERCOM
IDF	INTERMEDIATE DISTRIBUTION FRAME
JB	JUNCTION BOX
KAIC	KILOAMPERE INTERRUPTING CAPACITY
KV	KILOVOLT
KVA	KILOVOLT AMPERES
KW	KILOWATT
LTG	LIGHTING
MCM	THOUSAND CIRCULAR MILS
MDF	MAIN DISTRIBUTION FRAME
MECH	MECHANICAL
MH	MANHOLE
MTD	MOUNTED
MTG	MOUNTING
(N)	NEW
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NIEC	NOT IN ELECTRICAL CONTRACT
NO	NUMBER/ NORMALLY OPEN
NTS	NOT TO SCALE
O.C.	ON CENTER
P	POLE CIRCUIT BREAKER
PA	PUBLIC ADDRESS
PB	PULL BOX
PF	POWER FACTOR
PH	PHASE
PNL	PANEL
(R)	EXISTING TO BE RELOCATED
REQD	REQUIRED
REQT	REQUIREMENT(S)
RM	ROOM
RSC	RIGID STEEL CONDUIT
SHT	SHEET
SW	SWITCH
SWBD	SWITCHBOARD
TC	TERMINAL CABINET
TEL	TELEPHONE
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	VOLT
W	WATT
WP	WEATHERPROOF
XFMR	TRANSFORMER

DRAWING INDEX

SHEET NO.	SHEET TITLE
E0.1	ELECTRICAL SYMBOLS, ABBREVIATIONS AND NOTES
E0.2	FIXTURE SCHEDULE
E1.0	ELECTRICAL SITE PLAN - DEMOLITION
E1.1	ELECTRICAL SITE PLAN - NEW OVERALL
E2.1	ELECTRICAL SITE PLAN - POWER BASEBALL/SOCCER FIELD
E2.2	ELECTRICAL SITE PLAN - SIGNAL BASEBALL/SOCCER FIELD
E3.1	ELECTRICAL SITE PLAN - POWER SOCCER FIELDS
E3.2	ELECTRICAL SITE PLAN - SIGNAL SOCCER FIELDS
E4.1	ELECTRICAL SITE PLAN - MAIN STREET PARKING
E4.2	ELECTRICAL SITE PLAN - PLAYGROUND
E4.3	ELECTRICAL SITE PLAN - NATURE CENTER PARKING
E5.1	SINGLE LINE DIAGRAM
E5.2	PARTIAL SINGLE LINE DIAGRAM
E5.3	DATA RISER DIAGRAM
E6.1	ELECTRICAL DETAILS
E6.2	ELECTRICAL DETAILS
E6.3	ELECTRICAL DETAILS
E6.4	ELECTRICAL DETAILS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE LOCATING ALL EXISTING UNDERGROUND SYSTEMS IN AREA OF NEW TRENCHING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ALL DAMAGED SYSTEMS TO OWNERS SATISFACTION. EXTREME CARE SHALL BE MAINTAINED DURING TRENCHING AS EXISTING SYSTEMS ARE KNOWN TO EXIST IN AREA. MODIFICATIONS TO EXISTING SYSTEMS MAY BE REQUIRED TO ACCOMMODATE NEW SYSTEM CONFIGURATION AND SHALL BE MADE BY THE CONTRACTOR WITHOUT EXTRA EXPENSE TO THE OWNER. THE DRAWINGS AND SPECIFICATIONS ARE FOR THE ASSISTANCE AND GUIDANCE OF THE CONTRACTOR. EXACT LOCATIONS, DISTANCES AND ELEVATIONS WILL BE GOVERNED BY ACTUAL CONDITIONS. THE CONTRACTOR SHALL EXAMINE THE CONTRACT DOCUMENTS AND FIELD CONDITIONS TO DETERMINE EXACT ROUTING AND FINAL TERMINATIONS FOR ALL NEW WORK.

ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED ON REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS AND PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE PRIOR WRITTEN PERMISSION OF VERDE DESIGN, INC.

REGISTERED PROFESSIONAL ENGINEER — SAMUEL S. FERNANDEZ — E16890 Exp. 06/30/23 — ELECTRICAL — STATE OF CALIFORNIA

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CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

Approved by _____ Date _____

Designed by	AA	Job No. 2106300	SHEET E0.1
Drawn by	WN	Scale NTS.	of XX
Checked by	SF		

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

DRAWING NAME: C:\Users\nguyen\ACE\Communication site - Documents\Projects\Year 2021\EK2125_Ramsay Park_City of Watsonville\E0.1_Cover Sheet.dwg
PLOT DATE: 06-30-22 PLOTTED BY: nguyen

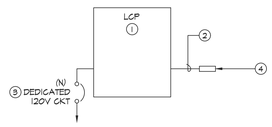
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4

FIXTURE SCHEDULE

TYPE	LAMPS	LED DRIVER	MOUNTING	DESCRIPTION	WEIGHT
A1	115W LED 4000K	0-10V DIMMING	MOUNTED ON A 21' POLE WITH A 3' BASE. TOTAL HEIGHT IS 24' WITH BASE. (1 E0.4)	POLE MOUNTED SINGLE HEAD LUMINAIRE. FIXTURE HOUSING SHALL BE ONE PIECE DIE CAST ALUMINUM. FIXTURE EPA SHALL BE A MAXIMUM OF .35 SQ. FT. LENSED LED ARRAYS ARE SET TO ACHIEVE TYPE IV DISTRIBUTION AND OPTICAL SYSTEMS ARE FIELD ROTATABLE UTILIZING HIGH PERFORMANCE CLASS I LED SYSTEMS. LUMINAIRE SHALL BE EQUIPPED WITH AN LED 0-10V DIMMING DRIVER THAT ACCEPTS 120V THROUGH 277V 60HZ INPUT. DRIVER OUTPUT SHALL BE BASED ON LED WATTAGE SELECTED. FINISH SHALL BE FADE AND ABRASION RESISTANT, ELECTROSTATICALLY APPLIED, THERMALLY CURED TGIC POLYESTER POWDERCOAT FINISH IN BRONZE COLOR. FIXTURE SHALL BE UL LISTED FOR WET LOCATION. POLES SHALL BE 21' HIGH, 4" STRAIGHT SQUARE STEEL. THE POLE SHAFT SHALL BE A SINGLE PIECE 11 GAUGE CARBON STEEL. THE FORMED STEEL PLATE SHALL BE LONGITUDINALLY WELDED PROVIDING MINIMUM YIELD STRENGTH OF 46KSI. THE ANCHOR BASE SHALL BE A-36 STRUCTURAL CARBON STEEL WITH A MINIMUM YIELD STRENGTH OF 36KSI. THE BASE PLATE SHALL TELESCOPE INTO THE POLE SHAFT AND BE CIRCUMFERENTIALLY WELDED ON THE TOP AND BOTTOM. ANCHOR BOLTS SHALL BE PROVIDED WITH THE POLE. ANCHOR BOLTS SHALL MEET OR EXCEED YIELD STRENGTH OF 50,000PSI. EACH ANCHOR BOLT SHALL BE PROVIDED WITH ALL HARDWARE NECESSARY FOR POLE INSTALLATION. BASE COVER SHALL BE TWO PIECE AND CONCEAL THE ENTIRE BASE PLATE AND ANCHORAGE. POLE SHALL BE PROVIDED WITH A HANDHOLE 12" ABOVE THE BASE. HANDHOLE SHALL BE PROVIDED WITH A COVER PLATE AND ATTACHMENT SCREWS. POLE SHALL ALSO BE PROVIDED WITH A POLE TOP CAP. FINISH SHALL BE TGIC POLYESTER POWDER COAT ELECTROSTATICALLY APPLIED AND THERMALLY CURED AND SHALL BE BLACK IN COLOR. POLES SHALL BE FACTORY DRILLED FOR PROPER FIXTURE INSTALLATION. ALL POLES SHALL BE PROPERLY LEVELED AND VERTICAL. LIGHTING FIXTURE HEADS SHALL BE MOUNTED TO THE POLE PER THE MANUFACTURERS RECOMMENDATIONS.	40 LBS
				A1 - PHILIPS -LUMEC RFM - 120W80LED4K - 62 - 4 - UNV FIXTURE MOUNTED ON A 21' POLE WITH 36" BASE (1-FIXTURE HEAD) 277VOLT	
A2				SAME AS FIXTURE "A1" EXCEPT DUAL HEAD AND TYPE 5.	
A3	74W LED 4000K	0-10V DIMMING	MOUNTED ON A 15' POLE WITH A 4" BASE. TOTAL HEIGHT IS 15-4" WITH BASE. (2 E0.4)	POLE MOUNTED SINGLE HEAD LUMINAIRE. FIXTURE HOUSING SHALL BE ONE PIECE DIE CAST ALUMINUM. FIXTURE EPA SHALL BE A MAXIMUM OF .35 SQ. FT. LENSED LED ARRAYS ARE SET TO ACHIEVE TYPE II DISTRIBUTION AND OPTICAL SYSTEMS ARE FIELD ROTATABLE UTILIZING HIGH PERFORMANCE CLASS I LED SYSTEMS. LUMINAIRE SHALL BE EQUIPPED WITH AN LED 0-10V DIMMING DRIVER THAT ACCEPTS 120V THROUGH 277V 60HZ INPUT. DRIVER OUTPUT SHALL BE BASED ON LED WATTAGE SELECTED. FINISH SHALL BE FADE AND ABRASION RESISTANT, ELECTROSTATICALLY APPLIED, THERMALLY CURED TGIC POLYESTER POWDERCOAT FINISH IN BRONZE COLOR. FIXTURE SHALL BE UL LISTED FOR WET LOCATION. POLES SHALL BE 15' HIGH, 4" STRAIGHT SQUARE STEEL GALVANIZED FINISH POLE. THE POLE SHAFT SHALL BE A SINGLE PIECE 11 GAUGE CARBON STEEL. THE FORMED STEEL PLATE SHALL BE LONGITUDINALLY WELDED PROVIDING MINIMUM YIELD STRENGTH OF 46KSI. THE ANCHOR BASE SHALL BE A-36 STRUCTURAL CARBON STEEL WITH A MINIMUM YIELD STRENGTH OF 36KSI. THE BASE PLATE SHALL TELESCOPE INTO THE POLE SHAFT AND BE CIRCUMFERENTIALLY WELDED ON THE TOP AND BOTTOM. ANCHOR BOLTS SHALL BE PROVIDED WITH THE POLE. ANCHOR BOLTS SHALL MEET OR EXCEED YIELD STRENGTH OF 50,000PSI. EACH ANCHOR BOLT SHALL BE PROVIDED WITH ALL HARDWARE NECESSARY FOR POLE INSTALLATION. BASE COVER SHALL BE TWO PIECE AND CONCEAL THE ENTIRE BASE PLATE AND ANCHORAGE. POLE SHALL BE PROVIDED WITH A HANDHOLE 12" ABOVE THE BASE. HANDHOLE SHALL BE PROVIDED WITH A COVER PLATE AND ATTACHMENT SCREWS. POLE SHALL ALSO BE PROVIDED WITH A POLE TOP CAP. FINISH SHALL BE TGIC POLYESTER POWDER COAT ELECTROSTATICALLY APPLIED AND THERMALLY CURED AND SHALL BE BLACK IN COLOR. POLES SHALL BE FACTORY DRILLED FOR PROPER FIXTURE INSTALLATION. ALL POLES SHALL BE PROPERLY LEVELED AND VERTICAL. LIGHTING FIXTURE HEADS SHALL BE MOUNTED TO THE POLE PER THE MANUFACTURERS RECOMMENDATIONS.	40 LBS
				A3 - GARDCO - PUREFORM RP26 - 48L - 500 - NW82 - AR - II - UNV - BZ (WITH OCC. SENSOR) FIXTURE MOUNTED ON A 15' POLE WITH 4' BASE (1-FIXTURE HEAD) POLE SHALL BE KW SSP15 - 4.0 - 11 - 6 - DM10 - STPBC - LAB 277VOLT	
A4				SAME AS FIXTURE "A3" EXCEPT TYPE 5.	
A5				SAME AS FIXTURE "A3" EXCEPT MOUNTED ON MUSCO POLE.	
C	34W LED 4000K	N/A	RECESSED MOUNTED	IN-GRADE UPLIGHT FIXTURE FOR FLAGPOLE. FIXTURE HOUSING SHALL BE CORROSION-FREE, HIGH STRENGTHFLAME RETARDANT AND UV STABILIZED, INJECTED MOLDED POLYCARBONATE. LENS SHALL BE HIGH HEAT, SHOCK-RESISTANT, 1/4" TEMPERED SODA LIME GLASS LENS. SUITABLE FOR WALK OVER AND DRIVE OVER APPLICATIONS UP TO 35000 LBS. 15-STAGE CHROMATE-FREE PROCESS CLEANAND CONVERSION COATSALUMINUM COMPONENTS PRIOR TO APPLICATION OF CLASS 'A' TGIC POLYESTER POWDER COATING IS ROHS COMPLIANT FINISH.	5 LBS
				B-K LIGHTING - HP2-LED-TR-x45-NFL-BLP-MT-AH 277VOLT OR APPROVED EQUAL	
A1-A2 B1-B2 C1-C2 C7 S1-S6 S8				SPORT FIELD FIXTURES AND POLES. SEE MUSCO SUBMITTAL PACKAGE FOR ADDITIONAL INFORMATION AND REQUIREMENTS.	

SITE LIGHTING SCHEDULE 'LCP':

Relay #	Circuit	Description	LV Switch/Sensor	A	B	C	D	E	F	G	H
R1	-	-	VIA LCP			X					
R2		SPARE									
R3		SPARE									
R4		SPARE									
R5		SPARE									
R6		SPARE									
R7		SPARE									
R8		SPARE									
R9		SPARE									
R10		SPARE									
R11		SPARE									
R12		SPARE									
R13		SPARE									
R14		SPARE									
R15		SPARE									
R16		SPARE									



Site Name: RAMSAY PARK RENAISSANCE LCP SCHEDULE				
Channel	Description	Scenario *	On / Occupied at:	Off / Unoccupied at:
A	EXTERIOR	Auto On/Auto Off	Dusk On	9:00PM off
B	EXTERIOR	Auto On/Auto Off	Dusk On	12:00AM off
C	EXTERIOR	Auto On/Auto Off	Dusk On	Dawn off
D				
E				

LCP RISER NOTES:

1. (N) LCP (LIGHTING CONTROL PANEL) IS LOCATED INSIDE THE NEMA-3R ELECTRICAL ENCLOSURE. SEE ELECTRICAL SITE PLAN FOR EXACT LOCATION OF THE NEMA-3R ELECTRICAL ENCLOSURE.
2. COORDINATE WITH WATTSTOPPER MANUFACTURER AND PROVIDE CABLES REQUIRED TO CONNECT TO CONTROL SWITCH. CABLES SHALL BE UNDERGROUND RATED AS NEEDED. ROUTING IS DIAGRAMMATIC.
3. ROUTE (N) ¾"C WITH (2)#12 AND (1)#12 GND. TO ASSOCIATED DIST. PANEL FOR POWER CONNECTION.
4. PROVIDE OVERRIDE SWITCH FOR CONTROL OF LIGHTS. PROVIDE IN NEMA-3R, LOCKABLE BOX. COORDINATE EXACT LOCATION WITH ARCHITECT.

NOTES:

1. LCP SHALL BE WATTSTOPPER #LMCP24EM, 277V PANEL. PANEL SHALL BE PROVIDED WITH 16 1-POLE RELAYS MINIMUM AND MOUNTED INSIDE NEMA-3R ENCLOSURE SECTION.
2. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
3. CONTRACTOR TO PROVIDE A COMPLETE FULLY OPERATIONAL SYSTEM WITH ALL CABLES CONNECTED.
4. CONTRACTOR SHALL COORDINATE THE LCP SCHEDULE WITH THE DISTRICT PRIOR TO PROGRAMMING.

1 / E0.2 LIGHTING CONTROL PANEL RISER DIAGRAM

NOT TO SCALE

REGISTERED PROFESSIONAL ENGINEER SAMUEL S. FERNANDEZ E16890 Exp. 06/30/23 ELECTRICAL STATE OF CALIFORNIA

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JOB # E21125.00

CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

Approved by _____ Date _____

Designed by AA | Drawn by WN | Checked by SF | Job No. 2106300 | Scale NTS. | SHEET E0.2 of XX

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

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DRAWING NAME: C:\Users\nguyen\ACEE\Communication site - Documents\Projects\Year 2021\EK21125_Ramsay Park_City of Watsonville\E0.2_Fixture schedule.DWG
PLOT DATE: 06-30-22 PLOTTED BY: nguyen

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4

ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF VERDE DESIGN, INC.



1 / E1.0 **ELECTRICAL SITE PLAN - DEMOLITION**

SCALE: 1" = 60'-0"

GENERAL NOTES:

1. PLANS SHOW GENERAL LOCATION OF EXISTING ELECTRICAL LIGHT POLE AND PULL BOXES. CONTRACTOR TO FIELD VERIFY PRIOR TO NEW TRENCHES. IN THE EVENT NEW TRENCH CROSSES EXISTING UNDERGROUND LIGHT CIRCUIT, THE CONTRACTOR SHALL PROVIDE AND GO DEEPER TO COMPLETE THE UNDERGROUND CONDUIT PER CEC.
2. (E) BLDG. OR ELEC. EQUIP. CALLED OUT TO REMAIN SHALL BE VERIFIED. THIS INCLUDES ASSOC. PULL BOXES TO BE PROTECTED & MAINTAINED.
3. CONTRACTOR SHALL COORDINATE UNDERGROUND DEMOLITION REQUIREMENTS WITH ALL OTHER TRADES TO AVOID CONFLICT.
4. ALL DEMOLITION WORK SHALL BE DONE IN ACCORDANCE WITH ARCHITECTURAL PHASING SCHEDULE. CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL DEMOLITION REQUIREMENTS.

DEMOLITION SHEET NOTES:

1. (E) PULL BOX TO REMAIN.
2. (E) LIGHT TO REMAIN
3. CONTRACTOR SHALL ADJUST BOX AS REQ. TO RAISE BOX SEE LAND. DWGS FOR FINISHED GRADE REQ. CONTRACTOR SHALL PROVIDE BOX EXT. AS NEEDED TO SUCCESSFULLY COMPLETE WORK.
4. (E) POLE TO BE REMAINED. CONFIRM W/ CITY PRIOR TO REMOVAL.
5. REMOVE (E) FED. LIGHT. DISCONNECT & REMOVE BACK TO SOURCE.
6. (E) METER PEDESTAL TO REMAIN.
7. (E) METER PEDESTAL TO BE REMOVED. DISCONNECT & REMOVE BACK TO SOURCE.

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CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

Approved by _____ Date _____

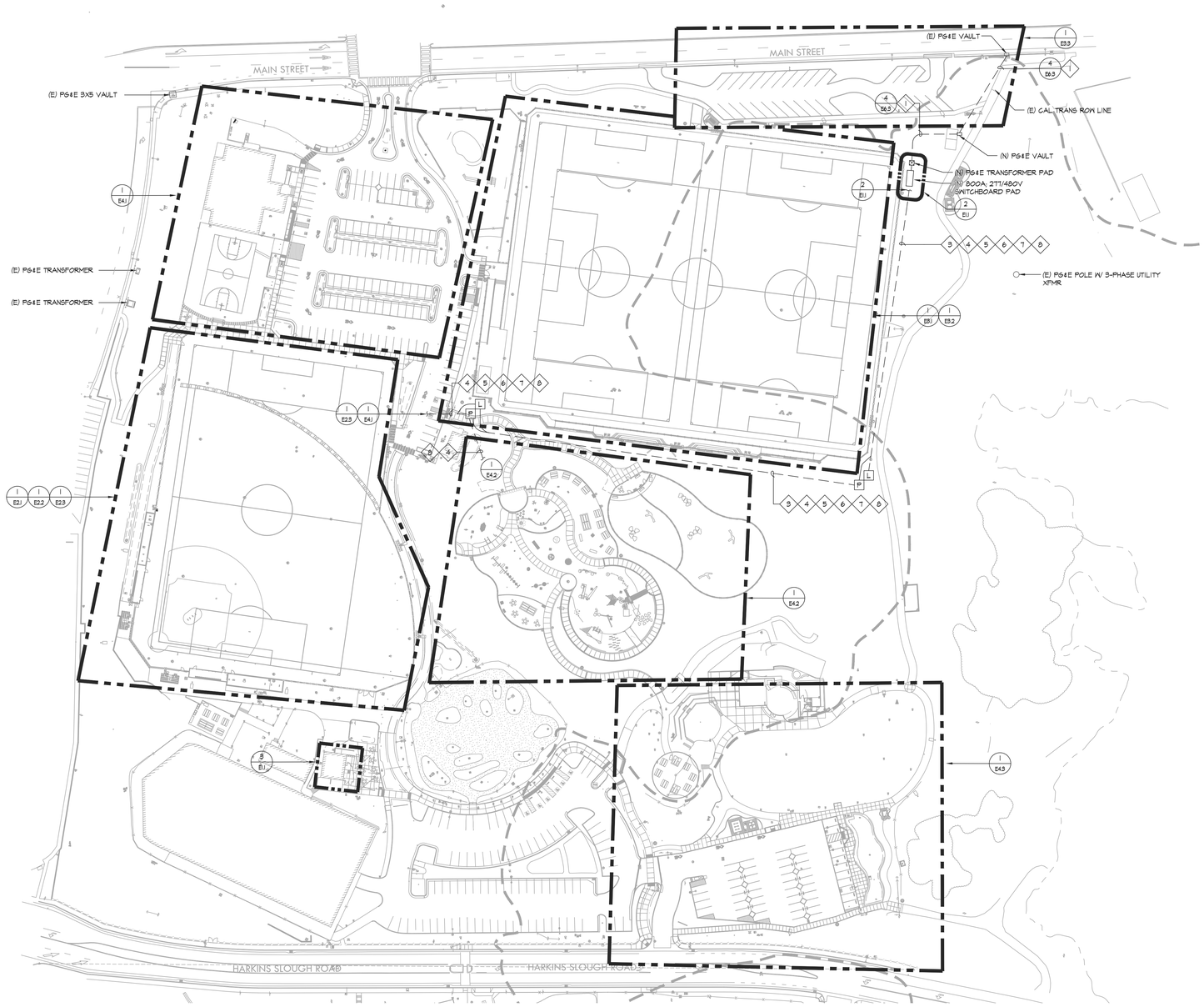
Designed by AA	Job No. 2106300	SHEET E1.0
Drawn by WN	Scale 1"=60'-0"	of XX
Checked by SF		

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

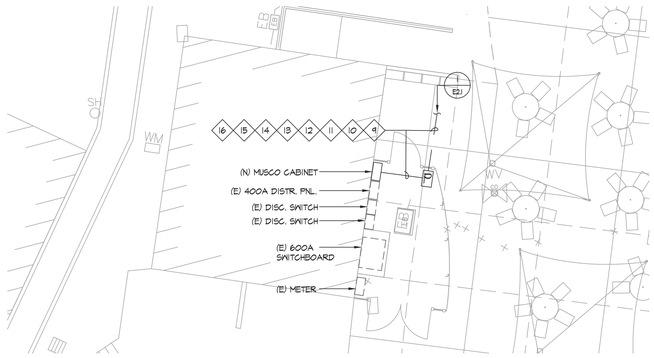
DRAWING NAME: G:\Users\nguyen\ACE\Communication site - Documents\Projects\Year 2021\EK2125_Ramsay Park_City of Watsonville\E1.0_Electrical Site Plan - Demolition.dwg
PLOT DATE: 06-30-22 PLOTTED BY: nguyen

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4



1 ELECTRICAL SITE PLAN - NEW

E1.1 SCALE: 1" = 60'-0"



3 (E) 600A METER BOARD

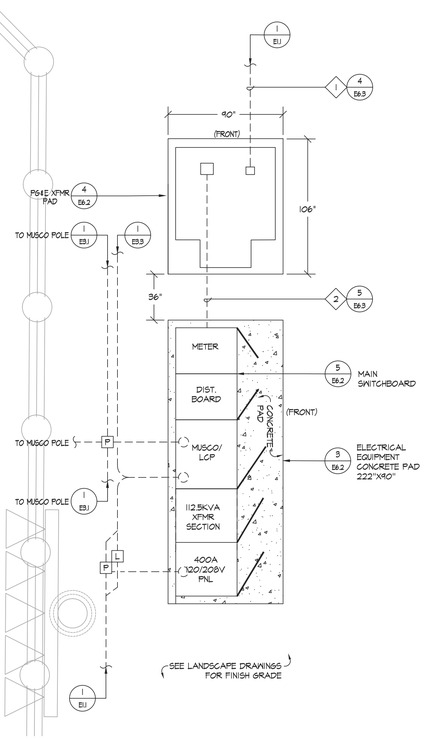
E1.1 SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. PLANS SHOW GENERAL LOCATION OF EXISTING ELECTRICAL LIGHT POLE AND PULL BOXES. CONTRACTOR TO FIELD VERIFY PRIOR TO NEW TRENCHES. IN THE EVENT NEW TRENCH CROSSES EXISTING UNDERGROUND LIGHT CIRCUIT, THE CONTRACTOR SHALL PROVIDE AND GO DEEPER TO COMPLETE THE UNDERGROUND CONDUIT PER CEC.

CONDUIT SCHEDULE:

1. (1) 4"C - PG&E PRIMARY
2. (2) 5"C - PG&E SECONDARY
3. (4) 3"CO - FUTURE EV
4. (1) 2"C - POWER RECEPTACLE
5. (1) 2"C - LIGHTING (PEDESTRIAN) (1) 2"CO - SPARE
6. (1) 2"C - FLAG POLE LIGHTING
7. (1) 2"C - PARKING LIGHTING
8. (1) 2"C - SECURITY LIGHTING
9. (1) 2"CO - POWER - MUSCO "A1"
10. (1) 2"CO - POWER - MUSCO "A2"
11. (1) 2"CO - POWER - MUSCO "B1"
12. (1) 2"CO - POWER - MUSCO "B2"
13. (1) 2"CO - POWER - MUSCO "C1"
14. (1) 2"CO - POWER - MUSCO "C2"
15. (1) 2"CO - POWER - MUSCO "C1"
16. (1) 2"CO - POWER - MUSCO "SB"



2 ENLARGED ELECTRICAL SITE PLAN - SWITCHBOARD LAYOUT

E1.1 SCALE: 1/4" = 1' - 0"

REGISTERED PROFESSIONAL ENGINEER SAMMY S FERNANDEZ E16890 Exp. 06/30/23 ELECTRICAL STATE OF CALIFORNIA

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CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

Approved by ____ Date ____

Designed by AA	Job No. 2106300	SHEET E1.1
Drawn by WN		
Checked by SF	Scale AS SHOWN	of XX

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

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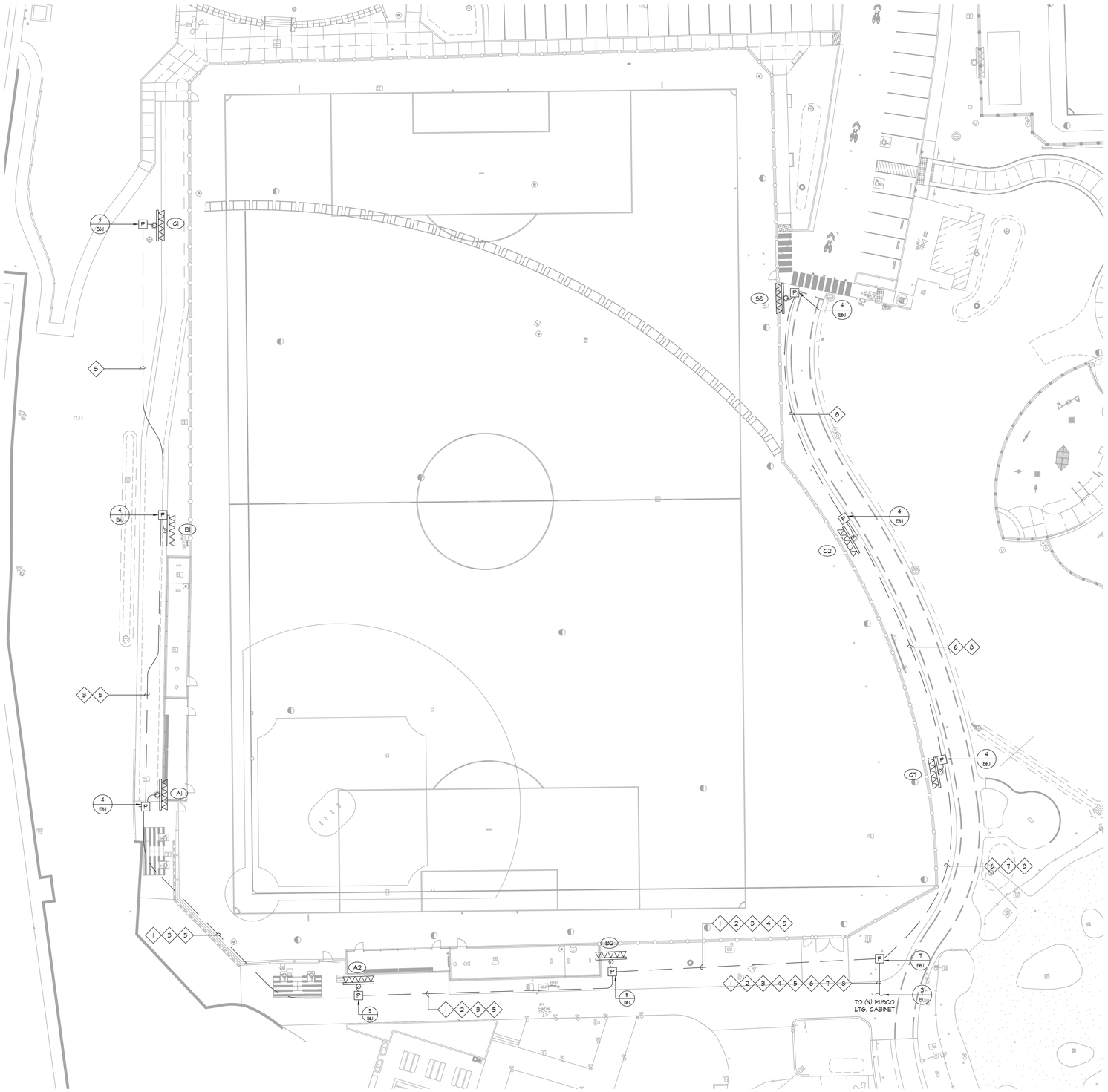
DRAWING NAME: C:\Users\cnguyen\ACE\Communication site - Documents\Projects\Year 2021\EK21125_Ramsay Park_City of Watsonville\E1_Electrical Site Plan - NEW OVERALL.dwg
PLOT DATE: 06-30-22 PLOTTED BY: cnguyen

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4



1 / E2.1 **ELECTRICAL SITE PLAN - NEW POWER BASEBALL/SOCCER FIELD**

SCALE: 1" = 20'-0"

TN
N

GENERAL NOTES:

1. SEE SINGLE LINE DIAGRAM FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
2. CONTRACTOR TO SITE SURVEY (E) CONDITIONS AND LOCATIONS OF (E) UNDERGROUND SYSTEMS, WHERE (N) TRENCHWORK OCCURS PRIOR TO BIDDING. CONTRACTOR SHALL TAKE PROPER PRECAUTIONS TO ENSURE (E) UNDERGROUND SYSTEMS/CONDUIT/PIPES ARE NOT DAMAGED DURING INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR ANY REPAIRS REQUIRED IN THE EVENT THE (E) UNDERGROUND SYSTEMS ARE DAMAGED AS A RESULT OF THE (N) ELECTRICAL TRENCHWORK.
3. PRIOR TO ALL (N) TRENCHES, CONTRACTOR TO USA ALL (E) ELECTRICAL CONDUITS AND OTHER UTILITIES TO FAMILIARIZE THEMSELVES WITH THE FIELD CONDITIONS AND ADJUST (N) TRENCHES ACCORDINGLY.
4. IN-GRADE PULL BOX IDENTIFIED WITH 'P' SHALL HAVE LID LABELED 'ELECTRICAL'.
5. IN-GRADE PULL BOX IDENTIFIED WITH 'S' SHALL HAVE LID LABELED 'SIGNAL'.
6. CONTRACTOR SHALL COORDINATE UNDERGROUND REQUIREMENTS WITH ALL OTHER TRADES TO AVOID CONFLICT.
7. CONTRACTOR TO COORDINATE ELECTRICAL SITE PLAN AND SIGNAL SITE PLAN TO COMBINE ALL UNDERGROUND CONDUITS IN COMMON TRENCH AS NECESSARY.
8. ALL EMPTY CONDUIT SHALL BE PROVIDED WITH NYLON PULL CORD AS NOTED IN THE SPECIFICATIONS.
9. SPLICE GROUND WIRE INSIDE ALL METAL ELECTRICAL PULL BOXES LABELED "ELECTRICAL" AND BOND TO METAL COVER WITH #6 CU GND.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SAW CUTTING AND REMOVAL OF EXISTING SURFACES TO FACILITATE UNDERGROUND SYSTEMS. THE CONTRACTOR SHALL PATCH AND REPAIR ALL DAMAGED AND CUT SURFACES TO MATCH ADJACENT.

CONDUIT SCHEDULE:

1. (1) 2"GO - POWER - MUSCO "A1"
2. (1) 2"GO - POWER - MUSCO "A2"
3. (1) 2"GO - POWER - MUSCO "B1"
4. (1) 2"GO - POWER - MUSCO "B2"
5. (1) 2"GO - POWER - MUSCO "C1"
6. (1) 2"GO - POWER - MUSCO "C2"
7. (1) 2"GO - POWER - MUSCO "C7"
8. (1) 2"GO - POWER - MUSCO "5B"

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REGISTERED PROFESSIONAL ENGINEER
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CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

Approved by _____ Date _____

Designed by AA
Drawn by WN
Checked by SF
Job No. 2106300
Scale 1" = 20'-0"
SHEET E2.1
of XX

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

DRAWING NAME: C:\Users\cnguyen\ACCElConstruction site - Documents\Projects\Year 2021\EK21125_Ramsay Park_City of Watsonville\E2.1_Electrical Site Plan - New Power.dwg
PLOT DATE: 06-30-22 PLOTTED BY: cnguyen

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4


4
E6.1
S
C1
1
4
E6.1
S
B1
A1
4
E6.1
S
A2
4
E6.1
S
B2
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E4.1
P
S
S0
4
E6.1
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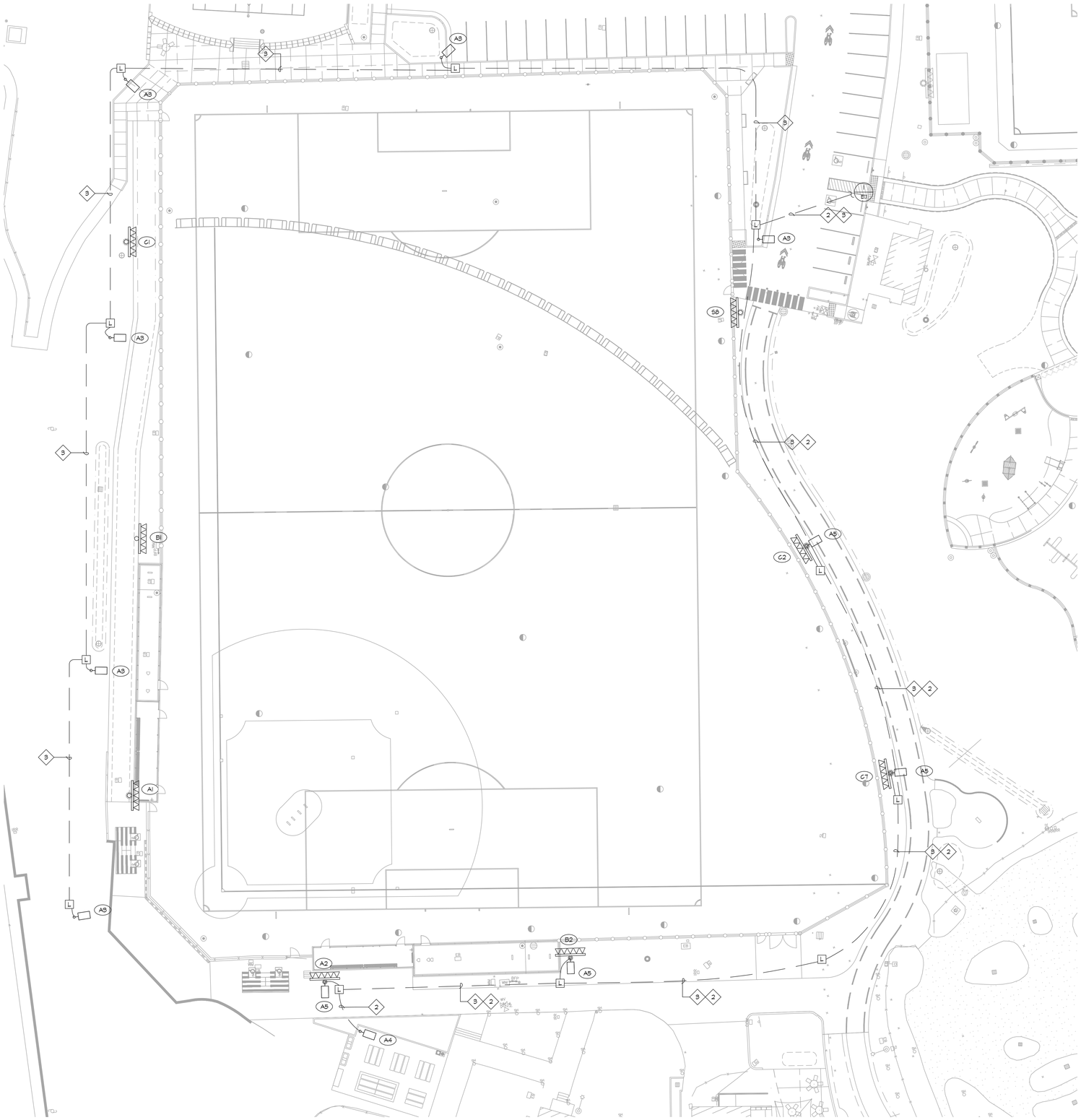

1 E2.3 **ELECTRICAL SITE PLAN - NEW LIGHTING BASEBALL/SOCCER FIELD**

SCALE: 1" = 20'-0"

GENERAL NOTES:

1. SEE SINGLE LINE DIAGRAM FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
2. CONTRACTOR TO SITE SURVEY (E) CONDITIONS AND LOCATIONS OF (E) UNDERGROUND SYSTEMS, WHERE (N) TRENCHWORK OCCURS PRIOR TO BIDDING. CONTRACTOR SHALL TAKE PROPER PRECAUTIONS TO ENSURE (E) UNDERGROUND SYSTEMS/CONDUIT/PIPES ARE NOT DAMAGED DURING INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR ANY REPAIRS REQUIRED IN THE EVENT THE (E) UNDERGROUND SYSTEMS ARE DAMAGED AS A RESULT OF THE (N) ELECTRICAL TRENCHWORK.
3. PRIOR TO ALL (N) TRENCHES, CONTRACTOR TO USA ALL (E) ELECTRICAL CONDUITS AND OTHER UTILITIES TO FAMILIARIZE THEMSELVES WITH THE FIELD CONDITIONS AND ADJUST (N) TRENCHES ACCORDINGLY.
4. IN-GRADE PULL BOX IDENTIFIED WITH 'P' SHALL HAVE LID LABELED 'ELECTRICAL'.
5. IN-GRADE PULL BOX IDENTIFIED WITH 'S' SHALL HAVE LID LABELED 'SIGNAL'.
6. CONTRACTOR SHALL COORDINATE UNDERGROUND REQUIREMENTS WITH ALL OTHER TRADES TO AVOID CONFLIGT.
7. CONTRACTOR TO COORDINATE ELECTRICAL SITE PLAN AND SIGNAL SITE PLAN TO COMBINE ALL UNDERGROUND CONDUITS IN COMMON TRENCH AS NECESSARY.
8. ALL EMPTY CONDUIT SHALL BE PROVIDED WITH NYLON PULL CORD AS NOTED IN THE SPECIFICATIONS.
9. SPLICE GROUND WIRE INSIDE ALL METAL ELECTRICAL PULL BOXES LABELED "ELECTRICAL" AND BOND TO METAL COVER WITH #6 CU GND.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SAW CUTTING AND REMOVAL OF EXISTING SURFACES TO FACILITATE UNDERGROUND SYSTEMS. THE CONTRACTOR SHALL PATCH AND REPAIR ALL DAMAGED AND CUT SURFACES TO MATCH ADJACENT.
11. ALL LIGHTING BOXES SHALL BE BIO1T BOX UNLESS OTHERWISE NOTED. SEE DETAIL 3/E6.1 . LABEL LID "LIGHTING".

CONDUIT SCHEDULE:

1. NOT USED
2. (1) 2"G - SECURITY LIGHTING
3. (1) 2"G - LIGHTING (PEDESTRIAN)
   (1) 2"GO - SPARE

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REGISTERED PROFESSIONAL ENGINEER SAMAH S. FERNANDEZ E16890 Exp. 06/30/23 ELECTRICAL STATE OF CALIFORNIA

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CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

Approved by _____ Date _____

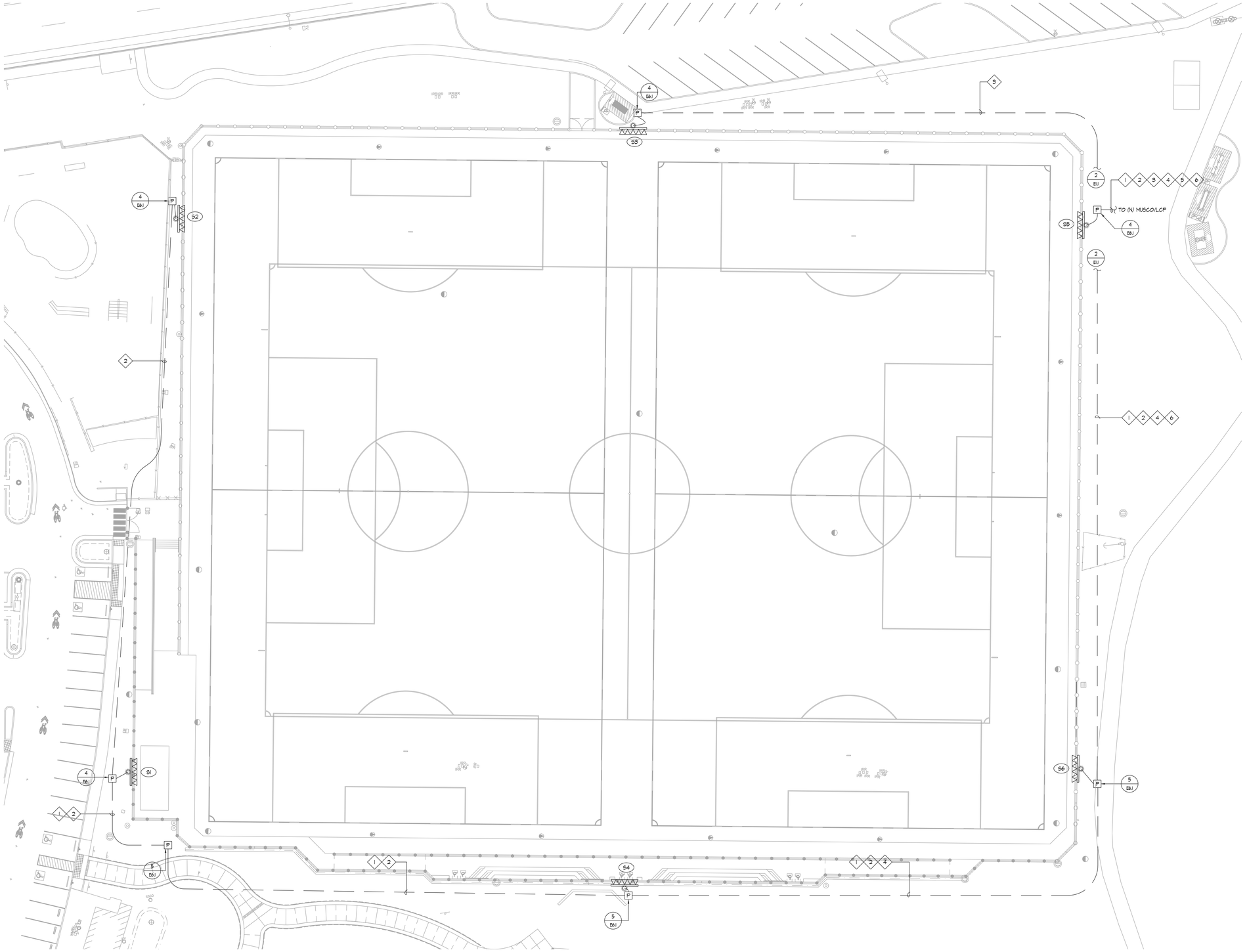
Designed by AA	Job No. 2106300	SHEET E2.3
Drawn by WN		
Checked by SF	Scale 1" = 20'-0"	of XX

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

DRAWING NAME: C:\Users\cnguyen\ACEE\Communication site - Documents\Projects\Year 2021\EK21125_Ramsay Park_City of Watsonville\E2.3_Electrical Site Plan - Baseball.dwg
PLOT DATE: 06-30-22 PLOTTED BY: cnguyen

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4



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CONDUIT SCHEDULE:

1. (1) 2"GO - POWER - MUSCO "S1"
2. (1) 2"GO - POWER - MUSCO "S2"
3. (1) 2"GO - POWER - MUSCO "S3"
4. (1) 2"GO - POWER - MUSCO "S4"
5. (1) 2"GO - POWER - MUSCO "S5"
6. (1) 2"GO - POWER - MUSCO "S6"

1 / E3.1 **ELECTRICAL SITE PLAN - NEW POWER SOCCER FIELDS**

SCALE: 1" = 20'-0"

TN N

REGISTERED PROFESSIONAL ENGINEER SAMAH S. FERNANDEZ E16890 Exp. 06/30/23 ELECTRICAL STATE OF CALIFORNIA

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CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

Approved by _____ Date _____

Designed by	AA	Job No.	2106300	SHEET	E3.1
Drawn by	WN	Scale	1" = 20'-0"	of	XX
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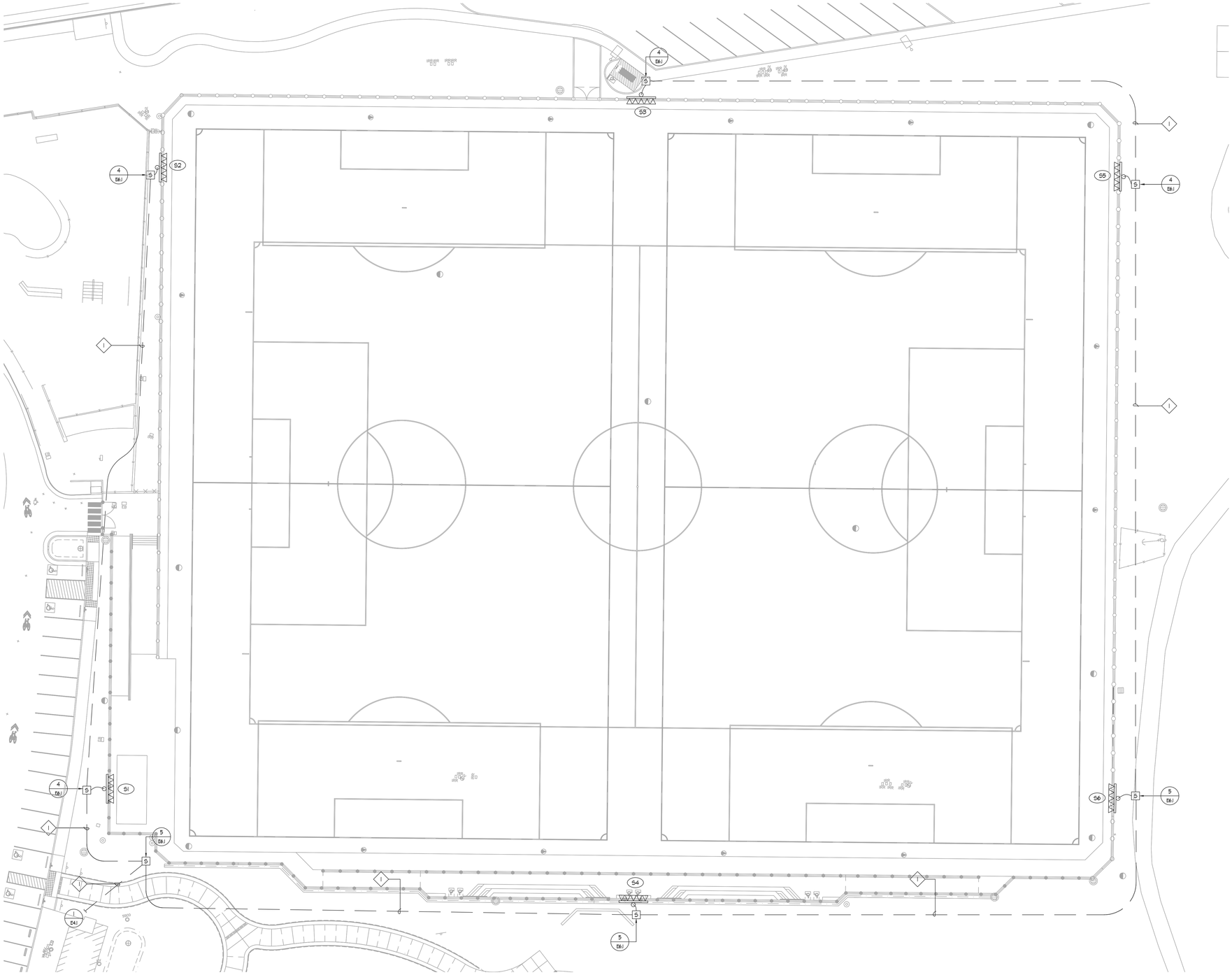
DRAWING NAME: C:\Users\nguyen\ACCE\Communication site - Documents\Projects\Year 2021\EK2112S_Ramsay Park_City of Watsonville\E3.1_Electrical Site Plan - soccer.dwg
PLOT DATE: 06-30-22 PLOTTED BY: nguyen

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4



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CONDUIT SCHEDULE:

1 (1) 2"GO - SIGNAL

1 / E3.2 ELECTRICAL SITE PLAN - SIGNAL SOCCER FIELDS

SCALE: 1" = 20'-0"

TN

N

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CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

Approved by _____ Date _____

Designed by AA	Job No. 2106300	SHEET E3.2
Drawn by WN	Scale 1" = 20'-0"	of XX
Checked by SF		

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WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

DRAWING NAME: C:\Users\nguyen\ACE\Communication site - Documents\Projects\Year 2021\EK2125_Ramsay Park_City of Watsonville\E3.2_Electrical Site Plan - New Signal Soccer Fielding
PLOT DATE: 06-30-22 PLOTTED BY: nguyen

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4

GENERAL NOTES:

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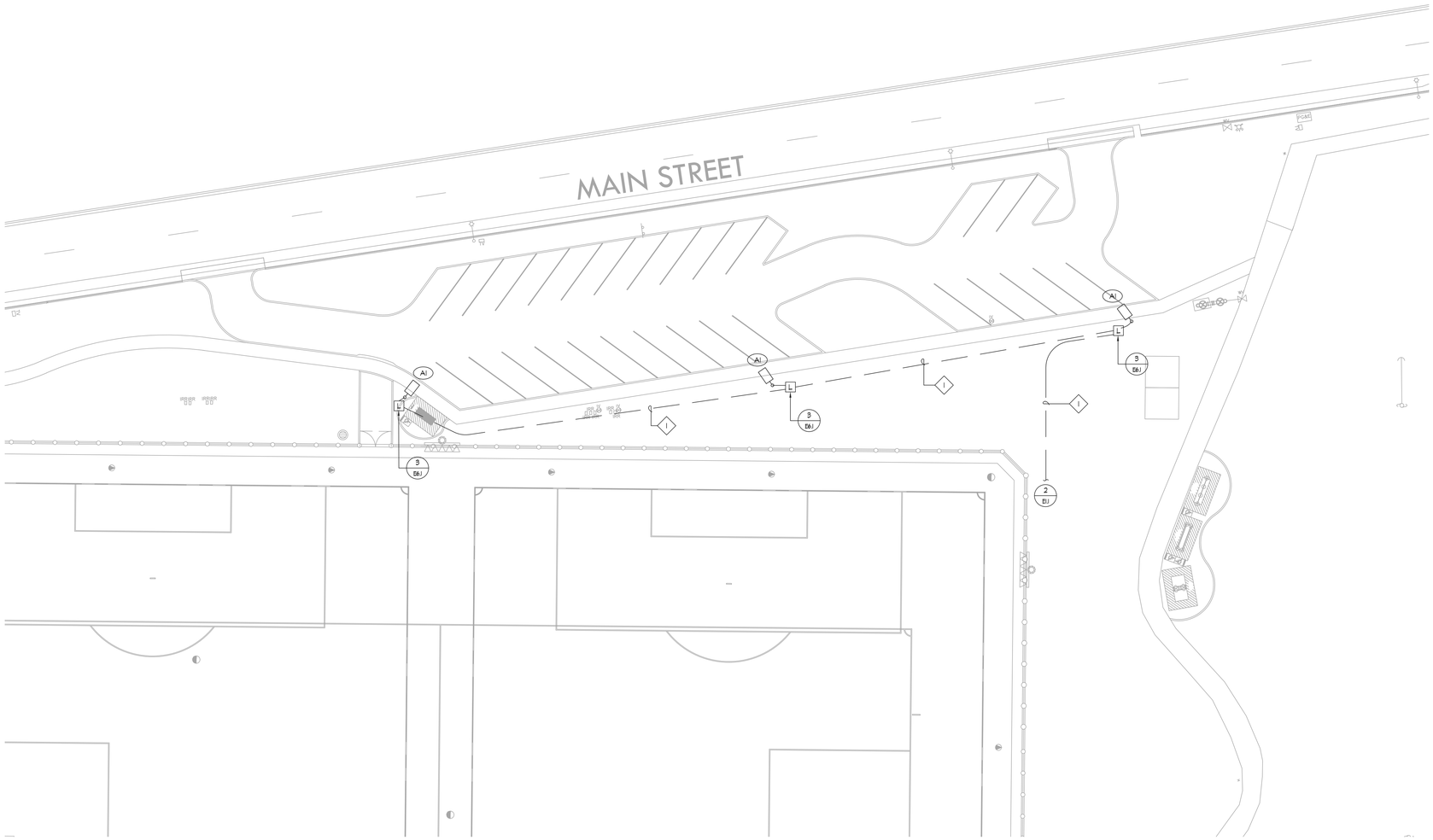
CONDUIT SCHEDULE:

(1) 2"G - PARKING LIGHTING
(1) 2"GO - SPARE



1 / E3.3 **ELECTRICAL SITE PLAN - NEW SOCCER FIELDS PARKING LOT LIGHT**

SCALE: 1" = 20'-0"

TN

REGISTERED PROFESSIONAL ENGINEER SAMAH S. FERNANDEZ E16890 Exp. 06/30/23 ELECTRICAL STATE OF CALIFORNIA

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PUBLIC WORKS, ENGINEERING DEPARTMENT

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Drawn by WN	Scale 1" = 20'-0"	of XX
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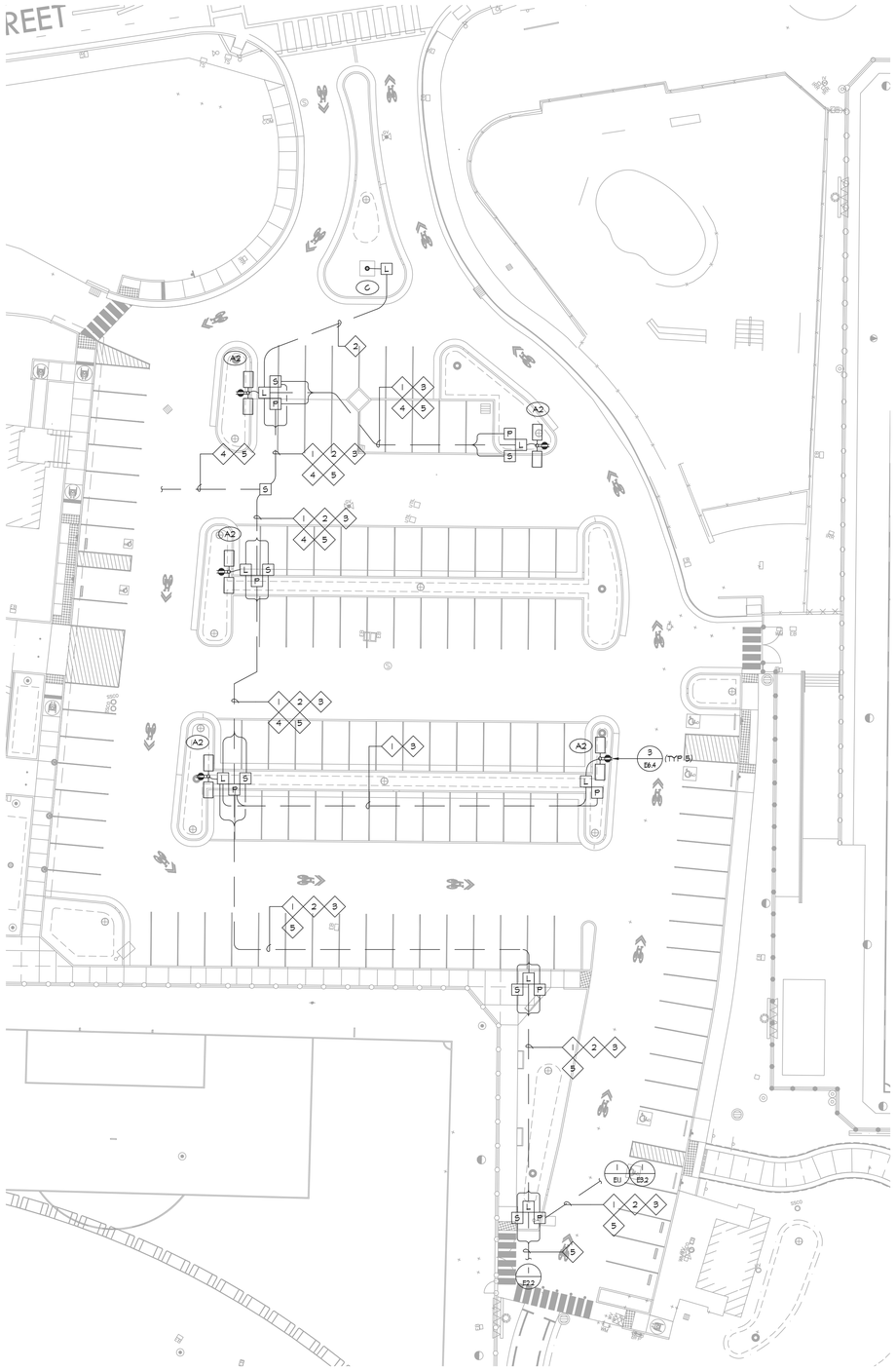
VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE PRIOR WRITTEN PERMISSION OF VERDE DESIGN, INC.

DRAWING NAME: C:\Users\cnguyen\ACEE\Communication site - Documents\Projects\Year 2021\EK2112S_Ramsay Park_City of Watsonville\E3.3_Electrical Site Plan - Soccer Parking.dwg
PLOT DATE: 06-30-22 PLOTTED BY: cnguyen

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4



1 / E4.1 **ELECTRICAL SITE PLAN - MAIN STREET PARKING**

SCALE: 1" = 20'-0"

TN N

GENERAL NOTES:

1. SEE SINGLE LINE DIAGRAM FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
2. CONTRACTOR TO SITE SURVEY (E) CONDITIONS AND LOCATIONS OF (E) UNDERGROUND SYSTEMS, WHERE (N) TRENCHWORK OCCURS PRIOR TO BIDDING. CONTRACTOR SHALL TAKE PROPER PRECAUTIONS TO ENSURE (E) UNDERGROUND SYSTEMS/CONDUIT/PIPES ARE NOT DAMAGED DURING INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR ANY REPAIRS REQUIRED IN THE EVENT THE (E) UNDERGROUND SYSTEMS ARE DAMAGED AS A RESULT OF THE (N) ELECTRICAL TRENCHWORK.
3. PRIOR TO ALL (N) TRENCHES, CONTRACTOR TO USA ALL (E) ELECTRICAL CONDUITS AND OTHER UTILITIES TO FAMILIARIZE THEMSELVES WITH THE FIELD CONDITIONS AND ADJUST (N) TRENCHES ACCORDINGLY.
4. IN-GRADE PULL BOX IDENTIFIED WITH 'P' SHALL HAVE LID LABELED 'ELECTRICAL'.
5. IN-GRADE PULL BOX IDENTIFIED WITH 'S' SHALL HAVE LID LABELED 'SIGNAL'.
6. CONTRACTOR SHALL COORDINATE UNDERGROUND REQUIREMENTS WITH ALL OTHER TRADES TO AVOID CONFLICT.
7. CONTRACTOR TO COORDINATE ELECTRICAL SITE PLAN AND SIGNAL SITE PLAN TO COMBINE ALL UNDERGROUND CONDUITS IN COMMON TRENCH AS NECESSARY.
8. ALL EMPTY CONDUIT SHALL BE PROVIDED WITH NYLON PULL CORD AS NOTED IN THE SPECIFICATIONS.
9. SPLICE GROUND WIRE INSIDE ALL METAL ELECTRICAL PULL BOXES LABELED "ELECTRICAL" AND BOND TO METAL COVER WITH #6 CU GND.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SAW CUTTING AND REMOVAL OF EXISTING SURFACES TO FACILITATE UNDERGROUND SYSTEMS. THE CONTRACTOR SHALL PATCH AND REPAIR ALL DAMAGED AND CUT SURFACES TO MATCH ADJACENT.

CONDUIT SCHEDULE:

1. (1) 2"G - POWER - RECEPTACLE
2. (1) 2"G - FLAG POLE LIGHTING
3. (1) 2"G - PARKING LIGHTING
4. (1) 2"G - CAMERA
5. (1) 2"GO - SIGNAL

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WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

REGISTERED PROFESSIONAL ENGINEER SAMAR S. FERNANDEZ E16890 Exp. 06/30/23 ELECTRICAL STATE OF CALIFORNIA

American Consulting Engineers Electrical, Inc.
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CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

Approved by _____ Date _____

Designed by	AA	Job No.	2106300	SHEET	E4.1
Drawn by	WN	Scale	1" = 20'-0"	of	XX
Checked by	SF				

VERDE PROJECT NO. 2106300

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PLOT DATE: 06-30-22 PLOTTED BY: cnguyen

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GENERAL NOTES:

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CONDUIT SCHEDULE:

1 (1) 2"G - SECURITY LIGHTING

2 (1) 2"G - POWER - RECEPTACLE

1 E4.2 **ELECTRICAL SITE PLAN - PLAYGROUND**

SCALE: 1" = 20'-0"

TN N

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CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

Approved by _____ Date _____

Designed by AA
Drawn by WN
Checked by SF

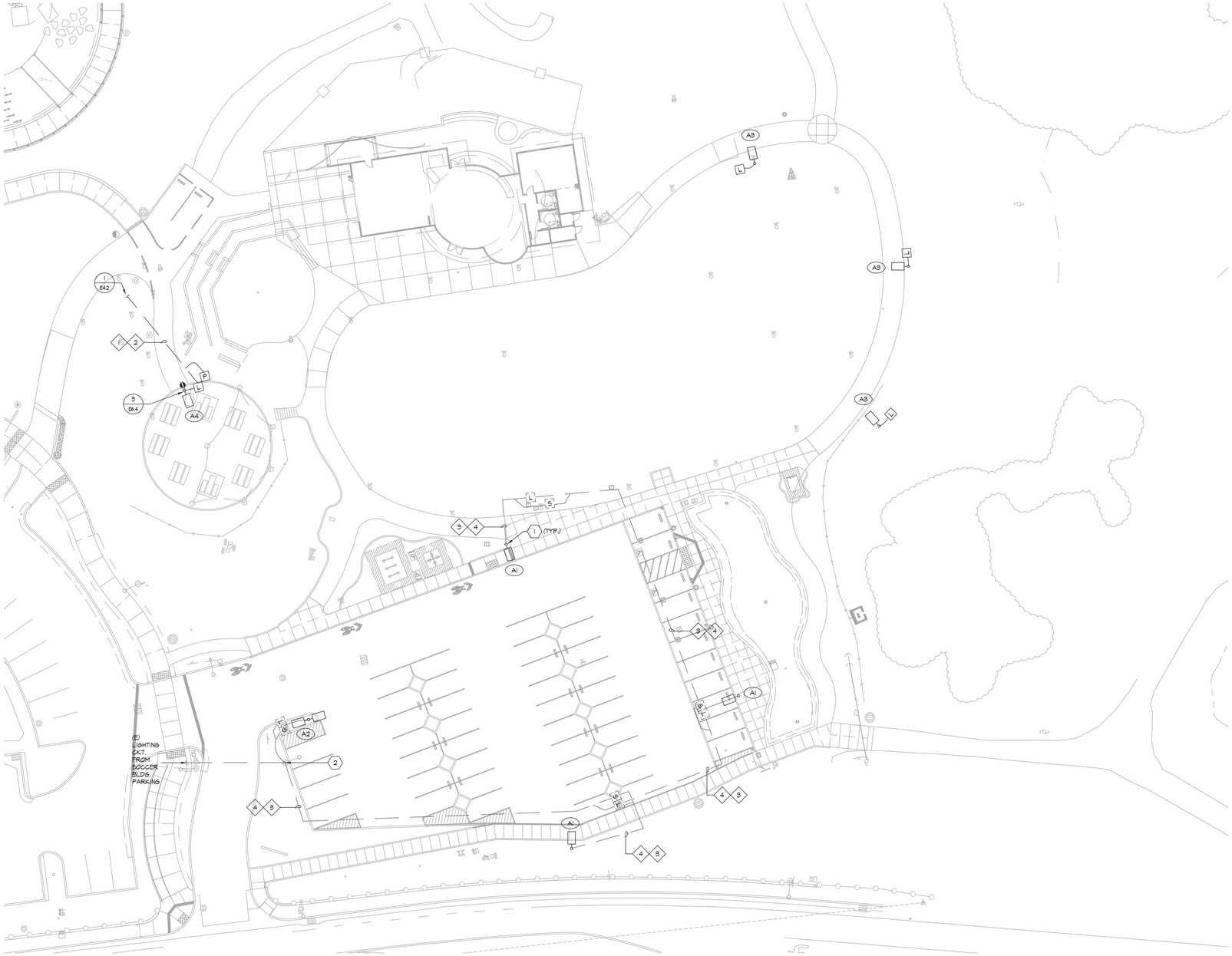
Job No. 2106300
Scale 1" = 20'-0"

SHEET E4.2
of XX

VERDE PROJECT NO. 2106300

DRAWING NAME: C:\Users\cnguyen\ACCElCommunication site - Documents\Projects\Year 2021\EK21125_Ramsay Park_City of Watsonville\E4.2_Electrical Site Plan - Playground.dwg
PLOT DATE: 06-30-22 PLOTTED BY: cnguyen

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4



GENERAL NOTES:

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SHEET NOTES:

1. CONTRACTOR SHALL VERIFY & CONFIRM CONCRETE BASE BOLT PATTERN AND PLATES WITH MANUFACTURER TO ENSURE DIRECT FIT WITH LIGHT POLES.
2. LOCATE EXISTING LIGHTING CIRCUIT AND EXTEND TO NEW PULLBOX.

CONDUIT SCHEDULE:

1. (1) 2"C - SECURITY LIGHTING
2. (1) 2"C - POWER - RECEPTACLE
3. (E) (1) 2"C - PARKING LIGHTING
4. (E) (1) 2"C - SECURITY CAMERA

1 ELECTRICAL SITE PLAN - NATURE CENTER PARKING

E4.3 SCALE: 1" = 20'-0"

TN

REGISTERED PROFESSIONAL ENGINEER SAMAH S. FERNANDEZ E16890 Exp. 06/30/23 ELECTRICAL STATE OF CALIFORNIA

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CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

Approved by _____ Date _____

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PLOT DATE: 08-30-22 PLOTTED BY: cnguyen

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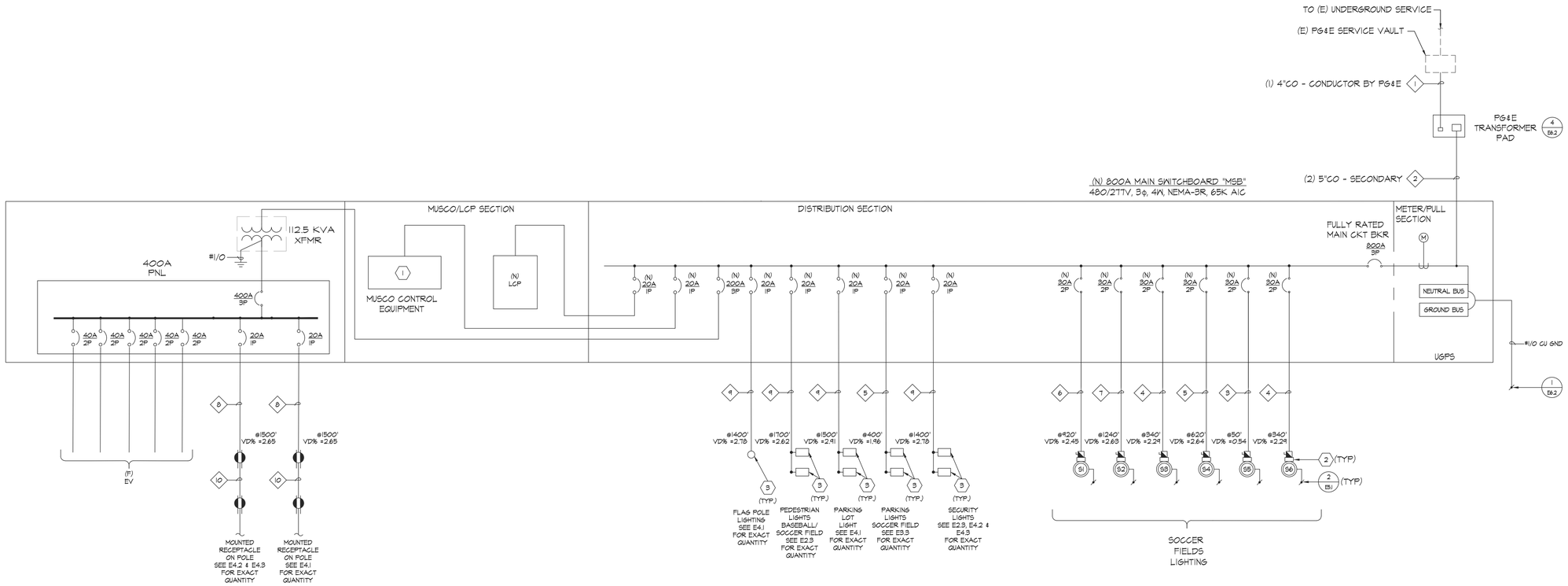


GENERAL NOTES:

1. FEEDERS TO SPORT LIGHTS SHALL HAVE CONTINOUS RUN, NO SPLICING ALLOWED.
2. ALL BREAKERS, PANELS, AND SWITCHBOARD SHALL BE SQUARE D OR APPROVED EQUAL.
3. ALL ELECTRICAL EQUIPMENT WITH EXPOSED (TO OUTDOOR ENVIRONMENT) SCREWS SHALL BE TREATED WITH ANTI-SEIZE.
4. ALL BREAKERS IN THE DISTRIBUTION SECTION SHALL BE PROVIDED WITH ENGRAVED NAMEPLATE TO IDENTIFY EQUIPMENT.

SHEET NOTES:

1. MUSCO LIGHTING CONTROLS CABINET NEMA-3R SEE MUSCO FOR COMPLETE INSTALLATION. MUSCO TO PROVIDE 277V STEP DOWN TRANSFORMER TO ALLOW 120V SERVICE TO OPERATE LIGHTING CONTROL PANEL. CONTRACTOR TO COORDINATE AND PROVIDE.
2. MUSCO SPORTS FIELD LIGHTING BALLAST WITH BUILT-IN INTEGRATED FUSED DISCONNECT.
3. CONNECT LIGHTS VIA LCP.

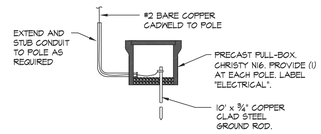
CONDUIT SCHEDULE:

1. (2) 4"CO - CONDUCTOR BY PG&E
2. (2) 5"CO - SECONDARY
3. 2"C - (3) #8 + #10 CU GND
4. 2"C - (3) #6 + #8 CU GND
5. 2"C - (3) #4 + #8 CU GND
6. 2"C - (3) #3 + (1) #8 CU GND
7. 2"C - (3) #2 + (1) #8 CU GND
8. 2"C - (2) #3/0 + (1) #6 CU GND
9. 2"C - (2) #1 + (1) #6 CU GND
10. 1 1/4"C - (2) #8 + (1) #10 CU GND

1 SINGLE LINE DIAGRAM

E5.1 N.T.S.

SYSTEM LOAD CALCULATIONS				
MAINSWITCHBOARD "MSB" - 480Y/277 V, 800A/3P MAIN CIRCUIT BREAKER, 100% RATED				
DESCRIPTION	LOAD TYPE(KVA)			Demand
	Lighting @100%	Motor @100%	Pwr Load @ 100%	(KVA)
(N) MUSCO LIGHTING	100.3			100.3
(N) (BASEBALL/SOCCER) PED LIGHTING	1.5			1.5
(N) (SOCCER) PED LIGHTING	0.3			0.3
(N) PARKING LOT LIGHTING	2.0			2.0
(N) FLAG POLE INGRADE LIGHTING	0.034			0.034
(F) RECEPTACLES			3.6	3.6
(F) EV CHARGER			100.0	100.0
MISC LOADS			52.0	52.0
				259.7
		TOTAL DEMAND AMPS @ 480V		312.8



2 FIELD LIGHTING GROUNDING BOX DETAIL

E5.1 SCALE: NOT TO SCALE
NOTE: INSTALL UNDER BID ALTERNATE #3 OR #7.

REGISTERED PROFESSIONAL ENGINEER SAMUEL S. FERNANDEZ E16890 Exp. 06/30/23 ELECTRICAL STATE OF CALIFORNIA

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CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

Approved by _____ Date _____

Designed by AA	Job No. 2106300	SHEET E5.1
Drawn by WN	Scale NTS.	of XX
Checked by SF		

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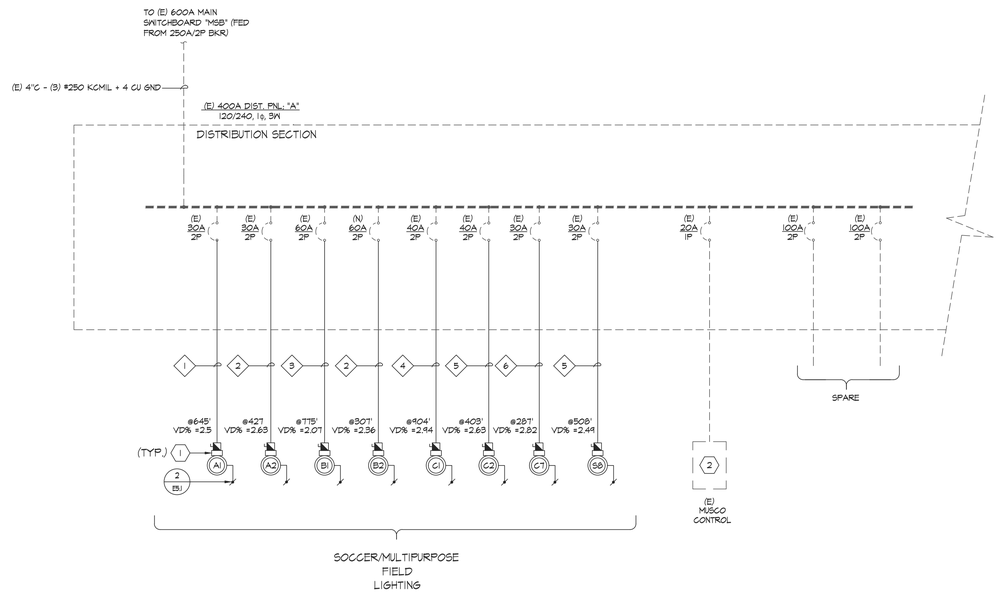

1 **PARTIAL SINGLE LINE DIAGRAM**
E5.2 N.T.S.

GENERAL NOTES:

1. FEEDERS TO SPORT LIGHTS SHALL HAVE CONTINOUS RUN, NO SPLICING ALLOWED.
2. ALL BREAKERS, PANELS, AND SWITCHBOARD SHALL BE SQUARE D OR APPROVED EQUAL.
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SHEET NOTES:

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2. MUSCO LIGHTING CONTROLS CABINET NEMA-3R SEE MUSCO FOR COMPLETE INSTALLATION. MUSCO TO PROVIDE 277V STEP DOWN TRANSFORMER TO ALLOW 120V SERVICE TO OPERATE LIGHTING CONTROL PANEL. CONTRACTOR TO COORDINATE AND PROVIDE.

CONDUIT SCHEDULE:

1. 2"C - (2) #2 + #8 CU GND
2. 2"C - (2) #4 + #8 CU GND
3. 2"C - (2) #1 + #6 CU GND
4. 2"C - (2) #1/0 + #6 CU GND
5. 2"C - (2) #3 + #6 CU GND
6. 2"C - (2) #6 + (1) #10 CU GND

REGISTERED PROFESSIONAL ENGINEER SAMUEL S. FERNANDEZ III E16890 Exp. 06/30/23 ELECTRICAL STATE OF CALIFORNIA

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SHEET E5.2 of XX

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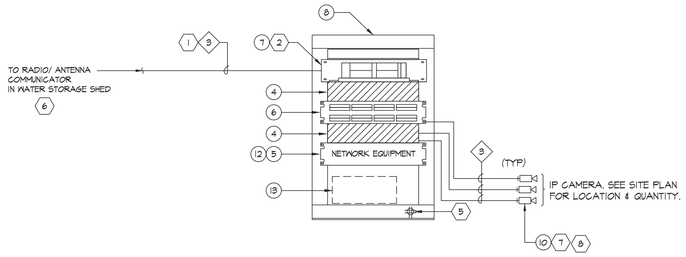
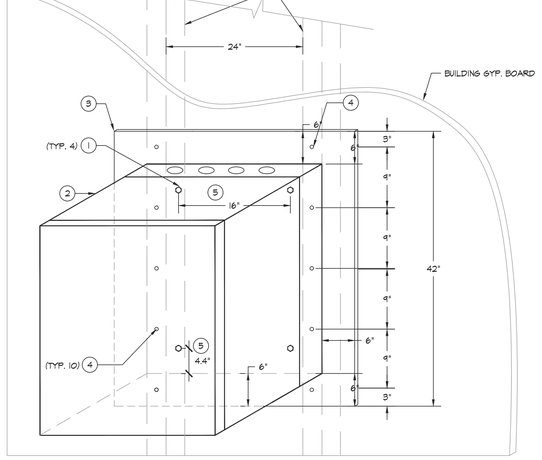


(E) IDF WALL MTD CABINET
FAMILY CENTER BUILDING

1 DATA RISER DIAGRAM
E5.3

SCALE: NOT TO SCALE



NOTES:

1. (4) ⅜" DIAMETER MACHINE SCREWS THROUGH CABINET BACK AND PLYWOOD WITH STD. CUT WASHERS UNDER ALL BOLT HEADS AND NUTS. USE LOCK-NUTS OR LOCK-WASHER UNDER NUTS
2. VIDEO CABINET. (MAX WEIGHT 250 LBS)
3. 5/8" PLYWOOD
4. (5) #12 X 2" WOOD SCREWS THROUGH PLYWOOD AND GYP. BOARD INTO GYP. BOARD OF TWO STUDS. (10 SCREWS TOTAL). ENSURE SCREWS ARE OF SUFFICIENT LENGTH TO EXTEND AT LEAST THREE THREADS PAST STUD GYP. BOARD.
5. CONTRACTOR TO VERIFY EXACT DIMENSIONS WITH CABINET MANUFACTURER.

2 DATA CABINET INSTALLATION
E5.3

NOT TO SCALE

RISER GENERAL NOTES

1. ALL DATA/TELEPHONE CABLES SHALL BE INSTALL IN CONDUIT AND/OR J-HOOKS FROM EACH PORT, DATA/TELEPHONE LOCATION WHERE SHOWN ON PLANS TO THE NEAREST DESIGNATED IDF LOCATION, U.O.N. MAKE TERMINATIONS AT BOTH DATA OUTLET AND IDF LOCATION.
2. ALL CABLE SHALL BE ROUTE DIRECTLY FROM STATION TO IDF/MDF LOCATION WITHOUT SPLICE OR INTERRUPTION.
3. ALL CAT 6A CABLES ARE TO BE TESTED FOR COMPLIANCE WITH TRUE CAT 6A PERFORMANCE, USING A HAND HELD NETWORK SCANNER. HARD COPY AND SOFT COPY RESULTS ARE TO BE PROVIDED FOR ALL JACKS TESTED. NETWORK ANALYZER IS TO BE A FLUKE DSP 4500 OR OWNER APPROVED EQUIVALENT. SOFT COPY RESULTS TO BE PROVIDE ON A WINDOW XP OR LATER COMPACT DISK (CD).
4. ALL FIBER OPTIC CABLE RUNS WILL BE TESTED AND DOCUMENTATION PROVIDED TO SHOW THAT EACH STRAND MEETS OR EXCEEDS THE EIA/TIA-455 STANDARDS. PROVIDE RECORDED TEST RESULTS ON ALL CABLES PASSED FOR OWNER'S RECORDS. CONTRACTOR WILL TEST THE FIBER OPTIC CABLE PRIOR TO INSTALLATION TO CHECK FOR DEFECTS. IF THE CONTRACTOR DOES NOT TEST THE FIBER, AND DEFECTS ARE FOUND THAT REQUIRE THE CABLE TO BE REPLACED, THE CONTRACTOR IS RESPONSIBLE FOR THE CABLE. CONTRACTOR WILL TEST THE INSTALLED FIBER OPTIC CABLES AND DOCUMENT EACH STRAND'S RESULT. IF ANY STRANDS ARE FOUND TO BE OUT SPECIFICATION, THE CONTRACTOR WILL REPAIR THE STRANDS TERMINATION AS NEEDED OR REPLACE CABLE IF REQUIRED. THE CONTRACTOR WILL RETEST AFTER REPAIRS.
5. SEE DATA/TELEPHONE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
6. CONTRACTOR PROVIDING WIFI, CAMERA AND NETWORK EQUIPMENT SHALL INCLUDE ALL LICENSES, INSTALLATION AND SUPPORT. PROVIDE A 2 YEAR WARRANTY FOR EQUIPMENT INSTALLATION AND PROTECT.
7. CONTRACTOR TO PROVIDE ONE DAY OF CAMERA & WIFI EQUIPMENT TRAINING TO CITY IT.

RISER NOTES:

1. ROUTE CABLE DIRECTLY FROM IDF TO IDF LOCATION WITHOUT SPLICE OR INTERRUPTION.
2. MAKE TERMINATIONS AT THE FIBER OPTIC PATCH PANEL. LEAVE 15' OF EXCESS FIBER OPTIC CABLE AT BOTH IDF LOCATIONS BEFORE MAKING TERMINATIONS FOR USE AS A SERVICE LOOP. SECURE EXCESS CABLE IN A NEAT WORKMANLIKE MANNER. ALL TERMINATED FIBER OPTIC CABLES WILL BE INSTALLED INTO FIBER PANEL.
3. PROVIDE NEW PATCH PANEL. QUANTITY AS REQUIRED TO TERMINATE ALL DATA/TELEPHONE OUTLETS + 10% SPARE. PATCH PANELS SHALL BE 48 PORTS PANEL.
4. (E) FIBER PORT HAS 2 FIBER STRANDS AVAILABLE. PROVIDE CONNECT (1) FOR TICKET BOOTH AND (1) FOR PRESS BOX. TERMINATE WITH SC CONNECTORS.
5. PROVIDE 4-GANG DOUBLE DUPLEX "LEVITON" COMMERCIAL GRADE 20A DEDICATED, 20V BRANCH CIRCUIT. INSTALL IN (N) IDF. PROVIDE (2)#12 + (1)#12 CU GND - ¾"C, ROUTE CONCEALED IN CEILING/WALL AND CONNECT TO MODULAR BLDG PANEL. PROVIDE 20A/1P BREAKER IN MODULAR PANEL AND CONNECT AS REQUIRED. PROVIDE AND UPDATE PANEL DIRECTORY.
6. CONNECT TO OUTPUT OF ANTENNA COMMUNICATOR.
7. EQUIPMENT WIFI & CAMERA TO BE MOUNTED IN MUSCO POLES. PROVIDE ALL MOUNTING HARDWARE FOR A COMPLETE INSTALLATION.
8. CONTRACTOR TO PROVIDE & TEST CABLES. PROVIDE APPROPRIATE CABLE SLACK IN SIGNAL IN-GRADE BOX AT THE BOTTOM OF MUSCO POLE. PROVIDE ABOUT 5 FT SLACK @ THE DEVICE LOCATION TO ALLOW CITY IT INSTALLERS TO CONNECT AND INSTALL CAMERA AND WIFI ON POLE.

CABLE SCHEDULE:

1. FIBER OPTIC - (12) STRAND INDOOR/OUTDOOR SINGLE-MODE OS4 FIBER (BERK-TEK, CORNING OR EQUAL) CONNECTOR - LC
2. TELEPHONE - 25 PAIR, CATEGORY 5; OUTDOOR RATED CABLE FOR TELEPHONE INFRASTRUCTURE.
3. DATA - CAT-6A (BLUE WITH BLACK LETTERING), PROVIDE TWO (2) DROPS FOR EACH DEVICE. ONE FOR SPARE AND ONE ACTIVE.
4. FIBER OPTIC - (4) STRAND INDOOR/OUTDOOR SINGLE-MODE OS4 FIBER (BERK-TEK, CORNING OR EQUAL) CONNECTOR - LC
5. TELEPHONE - CAT-6A (GREY WITH BLACK LETTERING)

EQUIPMENT SCHEDULE:

1. DATA JACK - CATEGORY 6 RATED - PANDUIT OR EQUAL. (DATA JACK COLOR SHALL BE BLUE AT BOTH ENDS, JACK AND PATCH PANEL)
2. TELEPHONE JACK - CATEGORY 6 RATED - PANDUIT OR EQUAL. (TELEPHONE JACK COLOR SHALL BE GREY AT BOTH ENDS, JACK AND PATCH PANEL)
3. 66-BLOCK.
4. HORIZONTAL WIRE MANAGER MODULE, TYPICAL.
5. NETWORK SWITCH - PROVIDED AND INSTALLED BY CONTRACTOR.
6. CAT 6A PATCH PANEL - PANDUIT #CPP48WBL OR EQUAL.
7. FIBER OPTIC PATCH PANEL - PANDUIT FMD24SCMP WITH (2) FAP6WSG AND (2) FAPB BLANK INSERTS OR EQUAL.
8. WALL MOUNT IDF CABINET - CHATSWORTH #11900-724.
9. CAT 6A PATCH PANEL - PANDUIT #CPP24WBL OR EQUAL.
10. CAMERA - AVIGILON CAMERA WITH ACC7 ENTERPRISE CAMERA LICENSES. EQUIPMENT INCLUDE:
    - PENDANT WALL MOUNT
    - CAMERA MODULE
    - H4AMH-AD-PEND1
    - H4AMH-DO-COVR1
    - IRPTZ-MNT-WALL1
    - H4AMH-AD-IR1L
    - 15C-H4A-3MH-270 3X5 MP, WDR, LIGHT CATCHER, 2.8mm, CAMERA ONLY.

    OWNER FURNISHED & OWNER INSTALLED U.O.N.
11. OUTDOOR WIFI - WIRELESS ACCESS POINT "RUKUS T750" OUTDOOR 802.11 AX 4X4 MIMI AP WITH 2.5 GBPS BACKHAUL WITH LICENCES.
12. NETWORK SWITCH - ARUBA 2930F WITH 16 SFP+.
13. UPS - APC SMART-UPS 1500VA LCD RM, UPS-1000W, 1440VA WITH APC UPS NETWORK MANAGEMENT CORD.

REGISTERED PROFESSIONAL ENGINEER SAMUEL S. FERNANDEZ E16890 Exp. 06/30/23 ELECTRICAL STATE OF CALIFORNIA

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Fax: 408/236-2316

CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

Approved by _____ Date _____

Designed by	AA	Job No.	2106300	SHEET	E5.3
Drawn by	WN			of	XX
Checked by	SF	Scale	NTS.		

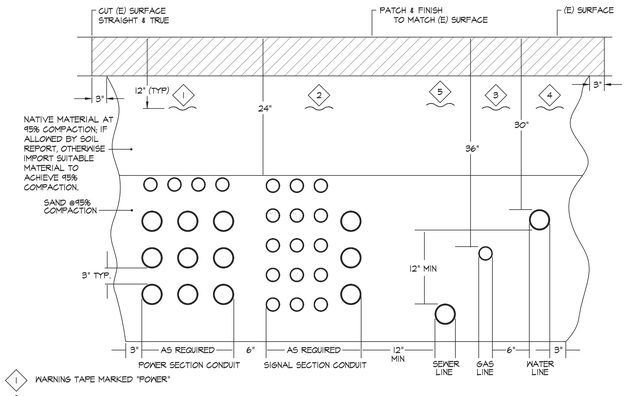
VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

ALL IDEAS, DESIGN, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE PRIOR WRITTEN PERMISSION OF VERDE DESIGN, INC.

DRAWING NAME: C:\Users\cnguyen\ACCEDComunication site - Documents\Projects\Year 2021\EK21125_Ramsay Park_City of Watsonville\E5.3_Data Riser Diagram.dwg
PLOT DATE: 06-30-22 PLOTTED BY: cnguyen

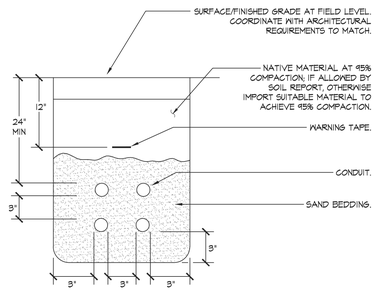
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4



1. WARNING TAPE MARKED "POWER"
2. WARNING TAPE MARKED "SIGNAL"
3. WARNING TAPE MARKED "GAS"
4. WARNING TAPE MARKED "WATER"
5. WARNING TAPE MARKED "SEWER"

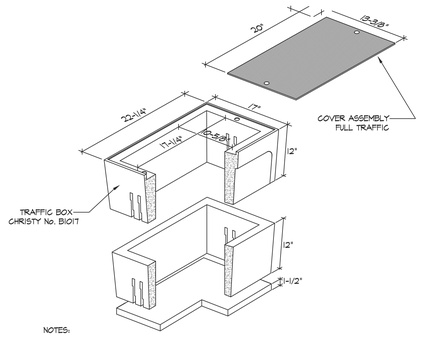
NOTES:
1. ALL ELECTRICAL TRENCH WORK SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
2. MINIMUM SPACING BETWEEN CONDUITS IS 3".
3. SEE SITE/FLOOR PLANS AND SPECIFICATIONS FOR CONDUIT REQUIREMENTS.

1 TYPICAL JOINT TRENCH & DUCT BANK DETAIL
E6.1 — NOT TO SCALE



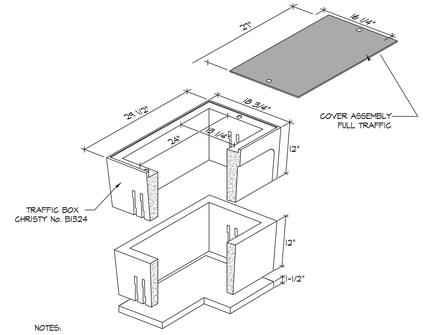
1. COORDINATE TRENCH CONDUIT LAYOUT WITH OTHER CONDUIT SYSTEMS.

2 TYPICAL TRENCH DETAIL AT FIELD LEVEL
E6.1 — NOT TO SCALE



NOTES:
1. HIGH DENSITY REINFORCED CONCRETE BOX WITH NON-SETTING SHOULDERS POSITIONED TO MAINTAIN GRADE AND FACILITATE BACK FILLING. APPROXIMATE DIMENSIONS SHOWN.
2. ALL CONDUITS SHALL ENTER FROM SIDES OF PULL BOX. CONTRACTOR SHALL PROVIDE PULL BOX EXTENSION AS REQUIRED. NO CONDUITS SHALL BE ALLOWED FROM THE BOTTOM OF THE PULL BOX.
3. CONTRACTOR SHALL STACK CONDUITS AS REQUIRED TO MEET THE NEC CODE REQUIREMENTS.
4. PROVIDE BELL ENDS ON ALL CONDUIT.

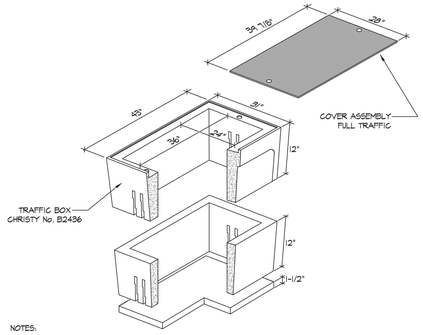
3 B1017 ELECTRICAL VAULT
E6.1 — NOT TO SCALE (FULL TRAFFIC COVER)



NOTES:
1. HIGH DENSITY REINFORCED CONCRETE BOX WITH NON-SETTING SHOULDERS POSITIONED TO MAINTAIN GRADE AND FACILITATE BACK FILLING. APPROXIMATE DIMENSIONS SHOWN.
2. ALL CONDUITS SHALL ENTER FROM SIDES OF PULL BOX. CONTRACTOR SHALL PROVIDE PULL BOX EXTENSION AS REQUIRED. NO CONDUITS SHALL BE ALLOWED FROM THE BOTTOM OF THE PULL BOX.
3. CONTRACTOR SHALL STACK CONDUITS AS REQUIRED TO MEET THE NEC CODE REQUIREMENTS.
4. PROVIDE BELL ENDS ON ALL CONDUIT.
5. PROVIDE 6" CONCRETE SLURRY AROUND BOX.
6. ALL PENETRATIONS INTO BOXES SHALL BE SEALED WITH GROUT.

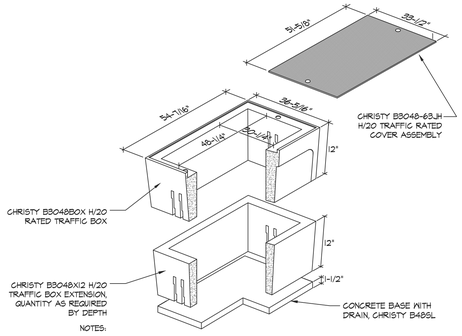
* ELECTRICAL PULL BOX STEEL COVER SHALL BE TACK WELDED TO THE FRAME OF BOX.

4 B1324 ELECTRICAL VAULT
E6.1 — NOT TO SCALE (FULL TRAFFIC COVER)



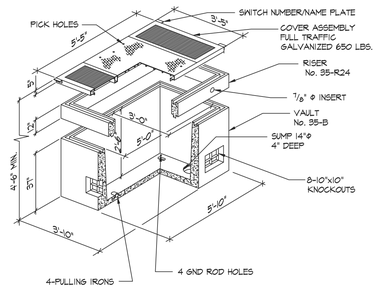
NOTES:
1. HIGH DENSITY REINFORCED CONCRETE BOX WITH NON-SETTING SHOULDERS POSITIONED TO MAINTAIN GRADE AND FACILITATE BACK FILLING. APPROXIMATE DIMENSIONS SHOWN.
2. ALL CONDUITS SHALL ENTER FROM SIDES OF PULL BOX. CONTRACTOR SHALL PROVIDE PULL BOX EXTENSION AS REQUIRED. NO CONDUITS SHALL BE ALLOWED FROM THE BOTTOM OF THE PULL BOX.
3. CONTRACTOR SHALL STACK CONDUITS AS REQUIRED TO MEET THE NEC CODE REQUIREMENTS.
4. PROVIDE BELL ENDS ON ALL CONDUIT.

5 B2436 ELECTRICAL VAULT
E6.1 — SCALE: NOT TO SCALE (FULL TRAFFIC COVER)



NOTES:
1. HIGH DENSITY REINFORCED CONCRETE BOX WITH NON-SETTING SHOULDERS POSITIONED TO MAINTAIN GRADE AND FACILITATE BACK FILLING. APPROXIMATE DIMENSIONS SHOWN.
2. ALL CONDUITS SHALL ENTER FROM SIDES OF PULL BOX. CONTRACTOR SHALL PROVIDE PULL BOX EXTENSION AS REQUIRED. NO CONDUITS SHALL BE ALLOWED FROM THE BOTTOM OF THE PULL BOX.
3. CONTRACTOR SHALL STACK CONDUITS AS REQUIRED TO MEET THE NEC CODE REQUIREMENTS.
4. PROVIDE BELL ENDS ON ALL CONDUIT.

6 B3048 TRAFFIC BOX DETAIL
E6.1 — NOT TO SCALE (FULL TRAFFIC COVER)



7 3' X 5' ELECTRICAL VAULT
E6.1 — NOT TO SCALE (FULL TRAFFIC COVER)

NOTES:
1. OBTAIN AND PROVIDE DISTRICT PAD LOCK.
2. PROVIDE ENGRAVED NAME PLATE. IDENTIFY AS ELECTRICAL DISCONNECT WITH PNL CIRCUITRY. NAMEPLATE SHALL BE PROVIDED PER SPECIFICATIONS.
3. PROVIDE AND SIZE FUSE PER EQUIPMENT NAMEPLATE RECOMMENDED.
4. NOTE LIFT PUMP HAS 25' CORD. COORDINATE WITH PLUMBING CONTRACTOR AND CONNECT AS REQUIRED.
5. BY LIFT STATION CONTRACTOR. LIFT STATION CONTRACTOR TO PROVIDE MOUNTING HARDWARE.

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REGISTERED PROFESSIONAL ENGINEER SAMMY S. FERNANDEZ E16890 Exp. 06/30/23 ELECTRICAL STATE OF CALIFORNIA

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CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

Approved by ____ Date ____

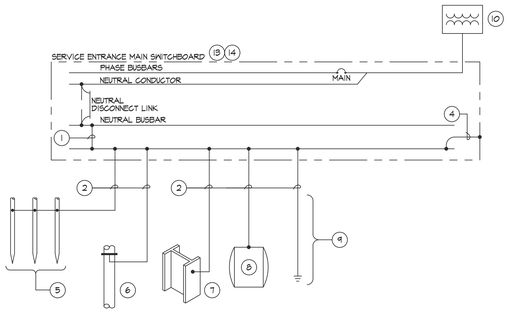
Designed by AA	Job No. 2106300	SHEET E6.1
Drawn by WN	Scale NTS.	of XX
Checked by SF		

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

DRAWING NAME: C:\Users\cnguyen\ACE\Communication site - Documents\Projects\Year 2021\EK21125_Ramsay Park_City of Watsonville\E6.1_Electrical Details.DWG
PLOT DATE: 06-30-22 PLOTTED BY: cnguyen

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4

VERDE PROJECT NO. 2106300

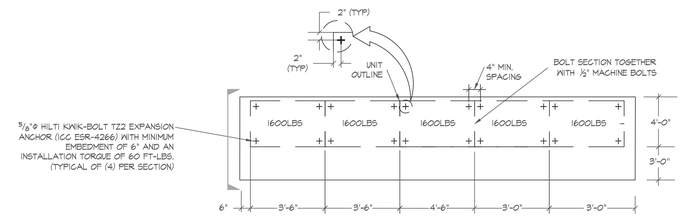


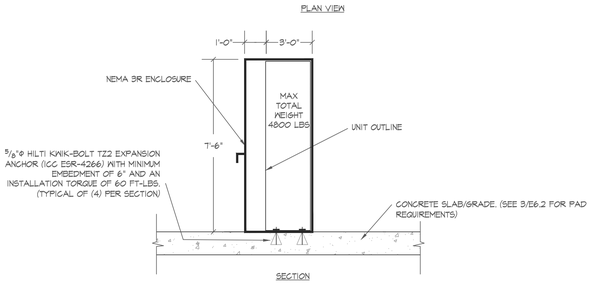
NOTES:

1. MAIN BONDING JUMPER. MAIN BONDING JUMPER SHALL BE SIZED PER 250.28(D).
2. GROUNDING ELECTRODE CONDUCTOR. GROUNDING ELECTRODE CONDUCTOR SHALL BE BARE OR INSULATED COPPER AND SHALL BE SIZED PER TABLE 250.66.
3. NOT USED.
4. EQUIPMENT BONDING JUMPER. EQUIPMENT BONDING JUMPER SHALL BE INSULATED COPPER AND SHALL BE SIZED PER TABLE 250.122.
5. PROVIDE A MINIMUM OF (3) GROUND RODS. GROUND RODS SHALL BE 10' LONG BY $\frac{3}{4}$" DIAMETER COPPERCLAD. GROUND RODS SHALL BE SPACED A MINIMUM OF 10' APART. GROUNDING ELECTRODE CONDUCTOR SHALL BE BONDED TO THE GROUND ROD VIA EXOTHERMIC WELD. GROUND RODS SHALL BE INSTALLED IN A ROUND BOX. SEE DETAIL FOR BOX/INSTALLATION REQUIREMENTS.
6. PROVIDE GROUNDING ELECTRODE CONDUCTOR CONNECTION TO THE NEAREST UNDERGROUND WATER PIPE IN DIRECT CONTACT WITH EARTH FOR A MINIMUM OF 10 FEET. WATER PIPE SHALL BE ELECTRICALLY CONTINUOUS TO POINTS OF CONNECTION OF THE GROUNDING ELECTRODE CONDUCTOR. CONNECTION POINT SHALL NOT BE GREATER THAN 5' FROM THE POINT OF ENTRANCE OF THE UNDERGROUND WATER PIPE.
7. PROVIDE GROUNDING ELECTRODE CONDUCTOR CONNECTION TO THE NEAREST METAL FRAME OR STRUCTURAL STEEL.
8. PROVIDE GROUNDING ELECTRODE CONDUCTOR CONNECTION TO ALL OTHER LOCAL METAL UNDERGROUND SYSTEMS OR STRUCTURES, AS REQUIRED WHEN AVAILABLE.
9. PROVIDE A CONCRETE ENCASED ELECTRODE (UFER) IN AND NEAR THE BOTTOM OF THE MAIN SWITCHBOARD PAD, STRUCTURAL FOOTING OR SLAB ON GRADE THAT IS IN DIRECT CONTACT WITH EARTH. THE ELECTRODE SHALL BE A MINIMUM OF 20 FEET LONG INSIDE THE PAD, FOOTING OR SLAB. THE ELECTRODE CONDUCTOR SHALL BE BARE COPPER AND SIZED PER TABLE 250.66 BUT SHALL NOT BE LESS THAN #4AWG.
10. MAIN UTILITY TRANSFORMER SHALL BE GROUNDED PER THE REQUIREMENTS OF THE UTILITY COMPANY.
11. NOT USED.
12. PROVIDE GROUNDING ELECTRODE CONDUCTOR CONNECTION TO THE SECONDARY SIDE OF ALL WYE CONNECTED BUILDING TRANSFORMERS. GROUNDING ELECTRODE CONDUCTOR MAY BE CONNECTED TO THE NEAREST STRUCTURAL STEEL OR THE MAIN SERVICE GROUNDING ELECTRODE ONLY. SEE TRANFORMER GROUNDING DETAIL FOR ADDITIONAL REQUIREMENTS.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL GROUNDING AND BONDING AS REQUIRED PER THE CEC.
14. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

1 MAIN SERVICE GROUNDING DETAIL

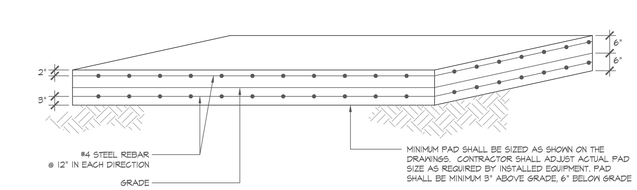
E6.2 NOT TO SCALE





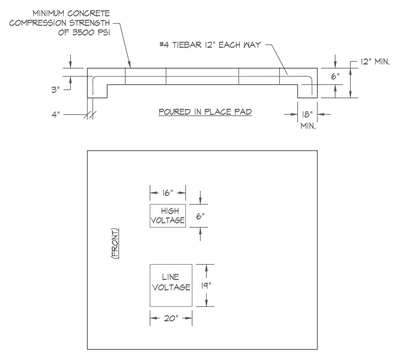
2 MAIN SWITCHBOARD ANCHORAGE DETAIL

E6.2 NOT TO SCALE



3 CONCRETE ELECTRICAL EQUIPMENT PAD

E6.2 SCALE: NOT TO SCALE

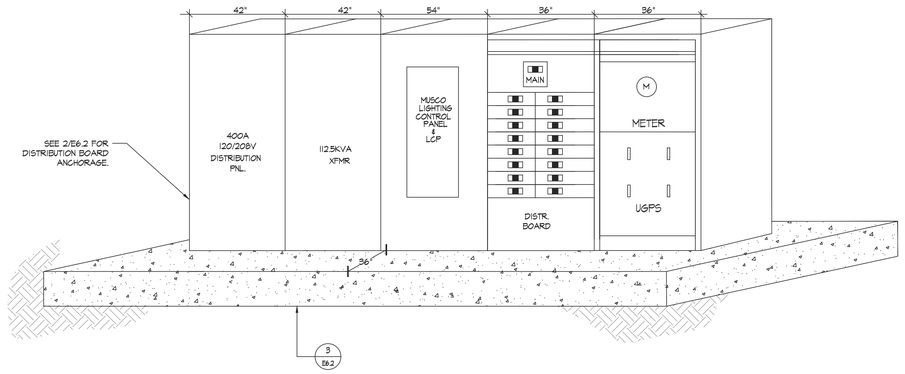


MINIMUM PAD SIZE: U.O.N. STYLE 11E

PAD SHALL CONFORM TO ALL REQUIREMENTS OF UTILITY "PG&E". THE CONTRACTOR SHALL CONSTRUCT THE PAD PER THE CONSTRUCTION DETAILS FOR STYLE 11E PAD AS SPECIFIED IN THE PG&E GREEN BOOK'S "CONCRETE PAD FOR THREE PHASE, LOOP-STYLE PAD-MOUNTED TRANSFORMERS" SECTION. REFER TO PG&E CONTRACTOR DOCUMENTS FOR FINAL REQUIREMENTS.

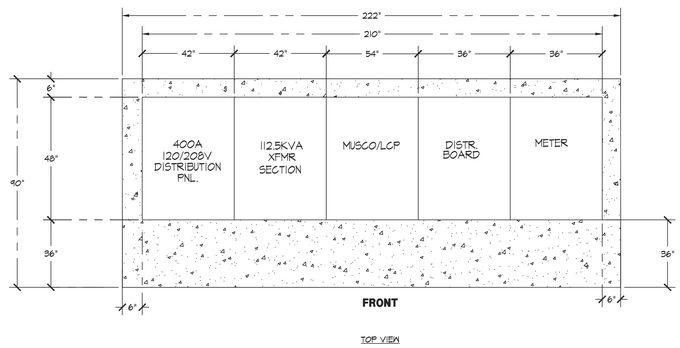
4 TRANSFORMER PAD DETAIL

E6.2 SCALE: NOT TO SCALE



5 MAIN SWITCHBOARD LAYOUT

E6.2 NOT TO SCALE



TOP VIEW

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REGISTERED PROFESSIONAL ENGINEER SAMUEL S. FERNANDEZ E16890 Exp. 06/30/23 ELECTRICAL STATE OF CALIFORNIA

CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

Approved by _____ Date _____

Designed by AA	Job No. 2106300	SHEET E6.2
Drawn by WN		of XX
Checked by SF	Scale NTS.	

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

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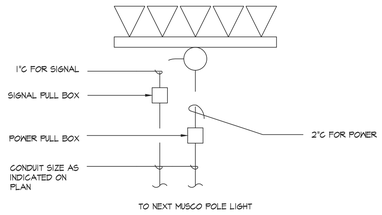
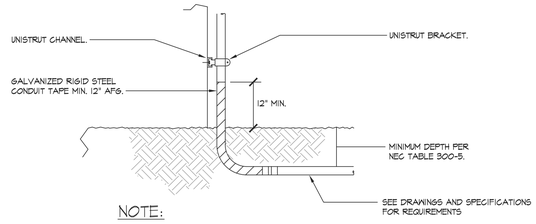
DRAWING NAME: C:\Users\nguyen\ACE\Communication site - Documents\Projects\Year 2021\EK21125_Ramsay Park_City of Watsonville\E6.2_Electrical Details.DWG
PLOT DATE: 06-30-22 PLOTTED BY: nguyen

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4



1 E6.3 POLE BASE CONDUIT ENTRY DETAIL

SCALE: NOT TO SCALE

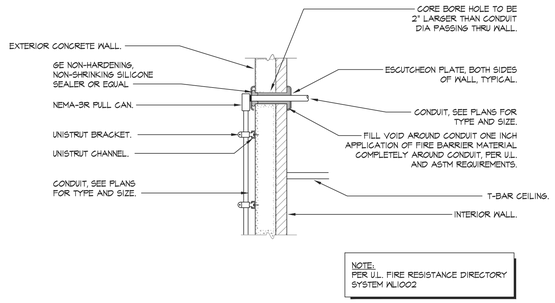


NOTE:

1. FOR WOOD STUD WALL: USE 3/16" MAX WITHOUT BLOCKING, LAG BOLT WITH MIN. 3/4" EMBEDMENT INTO STUDS. (ONE AT EACH END OF BRACKET)
2. FOR CONCRETE WALL: USE ⅜" DIA. HKB-TZ ANCHORS. THE ⅜" DIA. ANCHOR SHALL BE INSTALLED IN ⅜" DIA. HOLE WITH MIN. 2 ⅜" EMBEDMENT IN MIN. 2 ¾" DEEP HOLE. ALL ANCHORS SHALL BE TORQUE - TESTED TO 25 FT-LBS; WHICH MUST BE ATTAINED WITH IN ONE-HALF TURN OF NUT AFTER FIRM CONTACT WITH ANCHOR WASHER. PROVIDE (3) ANCHORS PER CHANNEL STRUT TO WALL.

2 E6.3 UNDERGROUND CONDUIT RISER DETAIL

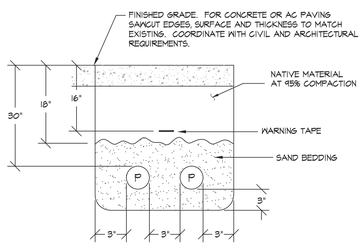
SCALE: NOT TO SCALE



NOTE:
PER UL. FIRE RESISTANCE DIRECTORY SYSTEM WL1002

3 E6.3 CONDUIT WALL PENETRATION DETAIL

SCALE: NOT TO SCALE

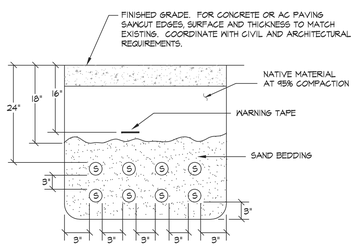


1. TRENCH PER PG&E STANDARDS
2. WHEN TRENCHING ACROSS PUBLIC STREET, CONTRACTOR TO COMPLY WITH GREEN BOOK AND PROVIDE ADDITIONAL TRENCH DEPTH AS REQUIRED.

P - PRIMARY

4 E6.3 PG&E TRENCH DETAIL PRIMARY SIDE

NOT TO SCALE



1. TRENCH PER PG&E STANDARDS

S - SECONDARY

5 E6.3 PG&E TRENCH DETAIL SECONDARY SIDE

NOT TO SCALE

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CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

Approved by _____ Date _____

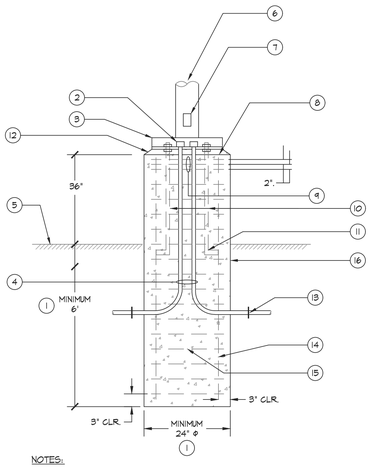
Designed by AA	Job No. 2106300	SHEET E6.3
Drawn by WN	Scale NTS.	of XX
Checked by SF		

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

DRAWING NAME: C:\Users\nguyen\ACE\Communication site - Documents\Projects\Year 2021\EK21125_Ramsay Park_City of Watsonville\E6.3_Electrical Details.DWG
PLOT DATE: 06-30-22 PLOTTED BY: nguyen

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4

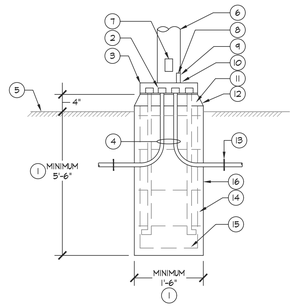


NOTES:

1. CONTRACTOR SHALL ENGAGE FOUNDATION DESIGNER. POLE BASE FOUNDATION & REBAR SHALL BE DESIGNED BY QUALIFIED FOUNDATION DESIGNER WHO IS FAMILIAR WITH SOIL CONDITIONS AND POLE LOADING.
2. CAP CONDUITS. (BEFORE POURING CONCRETE)
3. BASE COVER.
4. RIGID STEEL ELBOWS WRAP WITH PVC TAPE OVERLAP 50%.
5. FINISH GRADE.
6. ROUND STEEL POLE TO BE INSTALLED SHALL NOT EXCEED 22' IN HEIGHT.
7. FLUSH HANDHOLE WITH GROUND LUG. CONNECT GROUND WIRE TO GROUND LUG.
8. 1 1/2" NON-SHRINK GROUT.
9. 3-#3 TIES.
10. 4-1"ø x 40" LONG ANCHOR BOLTS.
11. 4" HOOK TYP.
12. 45° CHAMFER.
13. PVC SCH40 FROM RIGID STEEL ELBOWS TO NEXT POLE. (SEE PLAN)
14. 4-#6. (GRADE 60)
15. #3 TIES AT 6 " O.C. TYP. (GRADE 40)
16. CONCRETE POLE FOOTING COMPRESSIVE STRENGTH TO BE f'c = 3500 PSI MINIMUM AT 28 DAYS.

1 TYPICAL RAISED POLE BASE DETAIL

E6.4 NOT TO SCALE

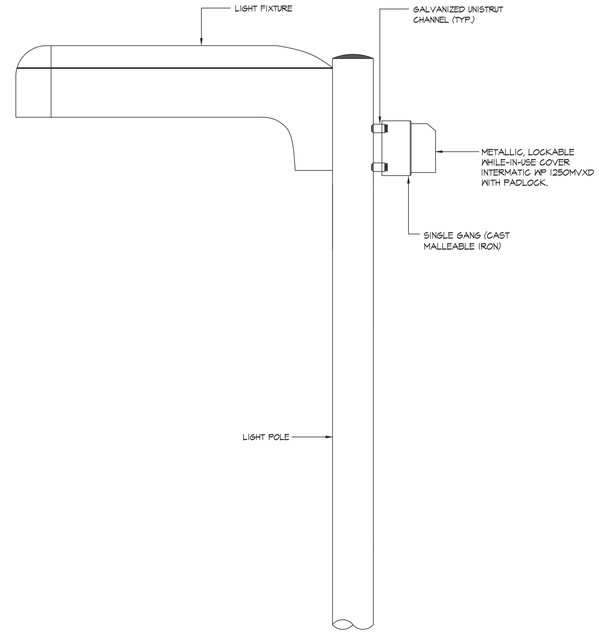


NOTES:

1. CONTRACTOR SHALL ENGAGE FOUNDATION DESIGNER. POLE BASE FOUNDATION & REBAR SHALL BE DESIGNED BY QUALIFIED FOUNDATION DESIGNER WHO IS FAMILIAR WITH SOIL CONDITIONS AND POLE LOADING.
2. CAP CONDUITS. (BEFORE POURING CONCRETE)
3. BASE COVER.
4. RIGID STEEL ELBOWS WRAP WITH PVC TAPE OVERLAP 50%.
5. FINISH GRADE.
6. LUMINAIRE POLE.
7. HAND HOLE.
8. GROUNDING LUG.
9. GROUND CONDUCTOR.
10. BUSHING.
11. ANCHOR BOLTS - VERIFY BOLT SIZE & BOLT CIRCLE WITH POLE MANUFACTURER.
12. GROUT.
13. PVC SCH40 FROM RIGID STEEL ELBOWS TO NEXT POLE. (SEE PLAN)
14. VERT REBAR. (#4 GRADE 40 MINIMUM)
15. TIES REBAR. (#4 GRADE 40 MINIMUM)
16. CONCRETE BASE. MINIMUM 3500 PSI. (COMPRESSIVE STRENGTH - 28 DAYS MINIMUM)

2 FLUSH POLE BASE DETAIL

E6.4 NOT TO SCALE

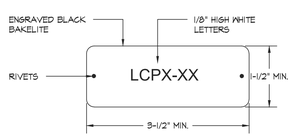


3 REC. ON POLE FIXTURE

E6.4 NOT TO SCALE

NOTE:

1. LABEL TO INDICATE LIGHTING CONTROL PANEL NUMBER AND CIRCUIT BREAKER NUMBER.



4 TYPICAL POST TAG

E6.4 NOT TO SCALE

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REGISTERED PROFESSIONAL ENGINEER SAMUEL S. FERNANDEZ E16890 Exp. 06/30/23 ELECTRICAL STATE OF CALIFORNIA

American Consulting Engineers Electrical, Inc.
1590 The Alameda, Suite 200
San Jose, Ca 95126
JOB # E21125.00
408/236-2312
Fax: 408/236-2316

CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

Approved by _____ Date _____

Designed by AA	Job No. 2106300	SHEET E6.4
Drawn by WN	Scale NTS.	of XX
Checked by SF		

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

DRAWING NAME: C:\Users\nguyen\ACED\Communication site - Documents\Projects\Year 2021\EK21125_Ramsay Park_City of Watsonville\E6.4_Electrical Detailsdwg
PLOT DATE: 06-30-22 PLOTTED BY: nguyen

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4

Ramsay Field Soccer/Multipurpose
Watsonville,CA

Lighting System

Pole / Fixture Summary

Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
A1	60'	60'	3	TLC-LED-1200	3.51 kW	D
		60'	1	TLC-LED-900	0.89 kW	D
		16'	1	TLC-BT-575	0.58 kW	D
		25'	1	CREE OSQ	0.10 kW	E
A2	60'	60'	3	TLC-LED-1200	3.51 kW	C
		16'	1	TLC-BT-575	0.58 kW	C
		25'	1	CREE OSQ	0.10 kW	E
B1	60'	60'	4	TLC-LED-1200	4.68 kW	D
		60'	1	TLC-LED-1500	1.43 kW	D
		60'	1	TLC-LED-900	0.89 kW	D
		16'	1	TLC-BT-575	0.58 kW	D
		25'	1	CREE OSQ	0.10 kW	E
B2	60'	60'	4	TLC-LED-1200	4.68 kW	C
		16'	1	TLC-BT-575	0.58 kW	C
		25'	1	CREE OSQ	0.10 kW	E
C1	60'	60'	3	TLC-LED-1200	3.51 kW	D
		60'	1	TLC-LED-1500	1.43 kW	D
		16'	1	TLC-BT-575	0.58 kW	D
		25'	1	CREE OSQ	0.10 kW	E
C2	60'	60'	3	TLC-LED-1200	3.51 kW	D
		60'	2	TLC-LED-1500	2.86 kW	D
		16'	1	TLC-BT-575	0.58 kW	D
		25'	1	CREE OSQ	0.10 kW	E
C3	70'	70'	2	TLC-LED-1200	2.34 kW	D
		70'	3	TLC-LED-1500	4.29 kW	D
		16'	1	TLC-BT-575	0.58 kW	D
		25'	1	CREE OSQ	0.10 kW	E
S1	80'	80'	5	TLC-LED-1500	7.15 kW	A
		25'	1	CREE OSQ	0.10 kW	E
S2	70'	70'	4	TLC-LED-1500	5.72 kW	A
		70'	1	TLC-LED-900	0.89 kW	A
		25'	1	CREE OSQ	0.10 kW	E
S3	90'	90'	4	TLC-LED-1500	5.72 kW	B
		90'	3	TLC-LED-1500	4.29 kW	A
		90'	2	TLC-LED-900	1.78 kW	A
		90'	1	TLC-LED-900	0.89 kW	B
		25'	1	CREE OSQ	0.10 kW	E
S4	90'	90'	4	TLC-LED-1500	5.72 kW	B
		90'	4	TLC-LED-1500	5.72 kW	A
		90'	1	TLC-LED-900	0.89 kW	B
		90'	1	TLC-LED-900	0.89 kW	A
		25'	1	CREE OSQ	0.10 kW	E
S5	70'	70'	4	TLC-LED-1500	5.72 kW	B
		70'	1	TLC-LED-900	0.89 kW	B
		25'	1	CREE OSQ	0.10 kW	E
S6	70'	70'	5	TLC-LED-1500	7.15 kW	B
		25'	1	CREE OSQ	0.10 kW	E
S8	70'	70'	4	TLC-LED-1200	4.68 kW	D
		70'	1	TLC-LED-1500	1.43 kW	D
		16'	1	TLC-BT-575	0.58 kW	D
		25'	1	CREE OSQ	0.10 kW	E
14			*98*		*103.12 kW*	

From Hometown to Professional



ENGINEERED DESIGN By: H.Sabers · File #172899Dr · 29-Apr-22

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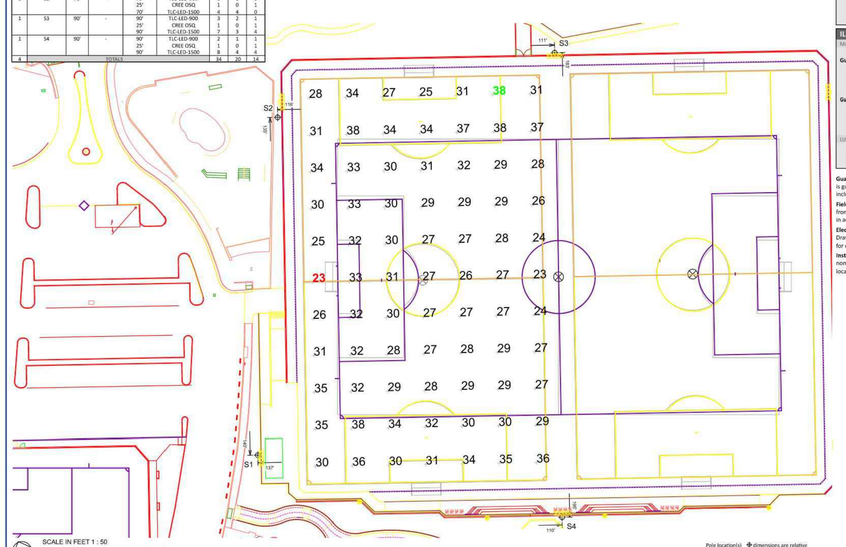
PROJECT SUMMARY

EQUIPMENT LIST FOR AREAS SHOWN

Pole QTY	Pole LOCATION	Pole SIZE	Pole GRADE ELEVATION	Luminaires MOUNTING HEIGHT	Luminaires LUMINAIRE TYPE	Luminaires QTY / POLE	Luminaires THIS GRID	Luminaires OTHER GRIDS
1	S1	80'	-	25'	CREE OSQ	5	0	5
				80'	TLC-LED-1500	5	5	0
1	S2	70'	-	70'	TLC-LED-900	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1500	4	4	0
1	S3	90'	-	90'	TLC-LED-900	3	2	1
				25'	CREE OSQ	1	0	1
				90'	TLC-LED-1500	7	3	4
1	S4	90'	-	90'	TLC-LED-900	2	1	1
				25'	CREE OSQ	1	0	1
				90'	TLC-LED-1500	8	4	4
4			TOTALS			35	20	14



Pole location(s): ✦ dimensions are relative to 0,0 reference point(s) ⊗

Ramsay Field Soccer/Multipurpose
Watsonville,CA

GRID SUMMARY

Name:	Soccer 1
Size:	330' x 195'
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

Entire Grid

Guaranteed Average:	**30**
Scan Average:	30.32
Maximum:	38
Minimum:	23
Ave / Min:	1.31
Guaranteed Max / Min	**2.5**
Max / Min:	1.65
UG (adjacent pts):	1.42
CU:	0.74
No. of Points:	77

LUMINAIRE INFORMATION

Applied Circuits:	A
No. of Luminaires:	**20**
Total Load:	26.44 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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ILLUMINATION SUMMARY

Ramsay Field Soccer/Multipurpose
Watsonville,CA

Circuit Summary

Circuit	Description	Load	Fixture Qty
A	Soccer 1	26.44 kW	20
B	Soccer 2	26.98 kW	20
C	Softball Only	9.34 kW	9
D	Soccer & Softball	38.9 kW	35
E	Pathway	1.46 kW	14

Fixture Type Summary

Type	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-LED-1200	LED 5700K - 75 CRI	1170W	136,000	>120,000	>120,000	>120,000	26
TLC-LED-1500	LED 5700K - 75 CRI	1430W	160,000	>120,000	>120,000	>120,000	41
TLC-LED-900	LED 5700K - 75 CRI	890W	89,600	>120,000	>120,000	>120,000	9
TLC-BT-575	LED 5700K - 75 CRI	575W	52,000	>120,000	>120,000	>120,000	8
CREE OSQ	LED 5700K - 70 CRI	104W	15,939	--	--	--	14

Light Level Summary

Calculation Grid Summary

Grid Name	Calculation Metric	Illumination Ave	Illumination Min	Illumination Max	Max/Min	Ave/Min	Circuits	Fixture Qty
Blanket Grid	Horizontal Illuminance	1.49	0	57	0.00		A,B,C,D,E	98
Multi-Soccer	Horizontal Illuminance	31.2	17	43	2.46	1.84	D	35
North Spill Line	Horizontal	0.10	0	0.51	0.00		A,B,C,D	84
North Spill Line	Max Candela (by Fixture)	3624	1.65	11278	6847.22	2196.54	A,B,C,D	84
North Spill Line	Max Vertical Illuminance Metric	0.18	0	0.89	0.00		A,B,C,D	84
Pathway Area	Horizontal Illuminance	0.53	0	5	979.68		E	14
Soccer 1	Horizontal Illuminance	30.3	23	38	1.65	1.32	A	20
Soccer 2	Horizontal Illuminance	30.7	23	43	1.88	1.33	B	20
Soccer 3	Horizontal Illuminance	32.1	25	45	1.80	1.29	A,B	40
Softball (Infield)	Horizontal Illuminance	52.3	36	67	1.77	1.38	C,D	44
Softball (Outfield)	Horizontal Illuminance	38.1	25	58	2.32	1.52	C,D	44
South Spill Line	Horizontal	0	0	0	0.00		A,B,C,D	84
South Spill Line	Max Candela (by Fixture)	46.5	0	271	0.00		A,B,C,D	84
South Spill Line	Max Vertical Illuminance Metric	0	0	0	0.00		A,B,C,D	84
West Spill Line	Horizontal	0.03	0	0.18	0.00		A,B,C,D	84
West Spill Line	Max Candela (by Fixture)	2257	1.39	9716	7010.12	1624.03	A,B,C,D	84
West Spill Line	Max Vertical Illuminance Metric	0.08	0	0.47	0.00		A,B,C,D	84

From Hometown to Professional



ENGINEERED DESIGN By: H.Sabers · File #172899Dr · 29-Apr-22

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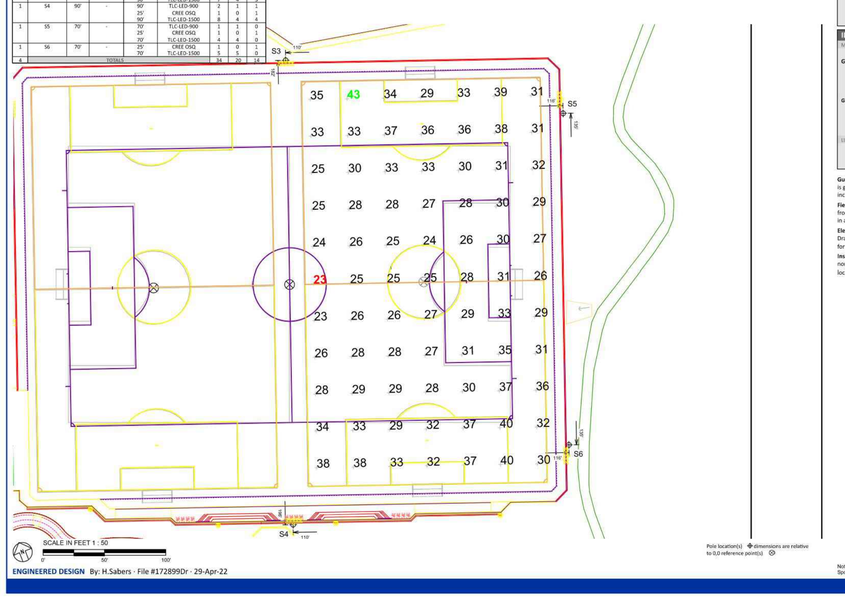
PROJECT SUMMARY

EQUIPMENT LIST FOR AREAS SHOWN

Pole QTY	Pole LOCATION	Pole SIZE	Pole GRADE ELEVATION	Luminaires MOUNTING HEIGHT	Luminaires LUMINAIRE TYPE	Luminaires QTY / POLE	Luminaires THIS GRID	Luminaires OTHER GRIDS
1	S3	90'	-	90'	TLC-LED-900	3	1	2
				25'	CREE OSQ	1	0	1
				90'	TLC-LED-1500	7	4	3
1	S4	90'	-	90'	TLC-LED-900	2	1	1
				25'	CREE OSQ	1	0	1
				90'	TLC-LED-1500	8	4	4
1	S5	70'	-	70'	TLC-LED-900	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1500	4	4	0
1	S6	70'	-	25'	CREE OSQ	1	0	1
				70'	TLC-LED-1500	5	5	0
4			TOTALS			35	20	14



Pole location(s): ✦ dimensions are relative to 0,0 reference point(s) ⊗

Ramsay Field Soccer/Multipurpose
Watsonville,CA

GRID SUMMARY

Name:	Soccer 2
Size:	330' x 195'
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

Entire Grid

Guaranteed Average:	**30**
Scan Average:	30.68
Maximum:	43
Minimum:	23
Ave / Min:	1.35
Guaranteed Max / Min	**2.5**
Max / Min:	1.88
UG (adjacent pts):	1.36
CU:	0.73
No. of Points:	77

LUMINAIRE INFORMATION

Applied Circuits:	B
No. of Luminaires:	**20**
Total Load:	26.98 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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ILLUMINATION SUMMARY

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REGISTERED LANDSCAPE ARCHITECT
DEREK MCKEE
No. 4148
Signature
EXPIRATION DATE: DEC. 2022
STATE OF CALIFORNIA

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
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Santa Clara, CA 95050
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www.VerdeDesignInc.com

CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

MUSCO SPORTS LIGHTING PLANS

Approved by: MARIA ESTHER CARRANZA RODRIGUEZ Date:
Designed by:
Drawn by: VERDE
Checked by: TY/DM
Job No. 2106300
Scale: SEE PLANS
SHEET M1.1
X of

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

DRAWING NAME: Y:\Projects-SC\2021\2106300 - Watsonville Ramsay Park Improvements\cad_MUSCO.dwg
PLOT DATE: 07-01-22 PLOTTED BY: station78

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES
0 1 2 3 4

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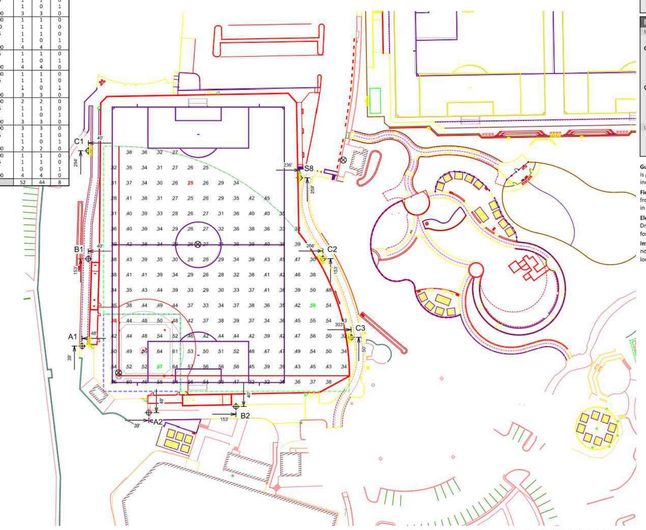
EQUIPMENT LIST FOR AREAS SHOWN

Pole QTY	Pole LOCATION	Pole SIZE	Pole GRADE ELEVATION	Luminaires MOUNTING HEIGHT	Luminaires LUMINAIRE TYPE	Luminaires QTY / POLE	Luminaires THIS GRID	Luminaires OTHER GRIDS
1	A1	60'	0'	60'	TLC-LED-900	1	1	0
				15.5'	TLC-RT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	A2	60'	-	15.5'	TLC-RT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	B1	60'	-	60'	TLC-LED-1500	1	1	0
				60'	TLC-LED-900	1	1	0
				15.5'	TLC-RT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	4	4	0
1	B2	60'	-	60'	TLC-LED-1500	2	2	0
				15.5'	TLC-RT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	C1	60'	0'	60'	TLC-LED-1500	1	1	0
				15.48'	TLC-RT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	C2	60'	-	60'	TLC-LED-1500	2	2	0
				15.5'	TLC-RT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	C3	70'	-	70'	TLC-LED-1500	3	3	0
				15.5'	TLC-RT-575	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1200	4	4	0
1	S8	70'	0'	70'	TLC-LED-1500	1	1	0
				15.48'	TLC-RT-575	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1200	4	4	0
8	TOTALS					52	44	8



SCALE IN FEET 1 : 80
0' 80' 160'

Pole location(s) ✥ dimensions are relative to 0,0 reference point(s) ⊗

ENGINEERED DESIGN By: H.Sabers · File #172899Dr · 29-Apr-22

Ramsay Field Soccer/Multipurpose

Watsonville,CA

GRID SUMMARY

Name:	Softball
Size:	300'/300'/300' - basepath 70'
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

	Infield	Outfield
Guaranteed Average:	**50**	**30**
Scan Average:	52.25	38.05
Maximum:	67	58
Minimum:	38	25
Avg / Min:	1.37	1.51
Guaranteed Max / Min:	**2**	**2.3**
Max / Min:	1.77	2.32
UG (adjacent pts):	1.30	1.64
CU:	0.63	
No. of Points:	25	181

LUMINAIRE INFORMATION

Applied Circuits:	C, D
No. of Luminaires:	**44**
Total Load:	48.24 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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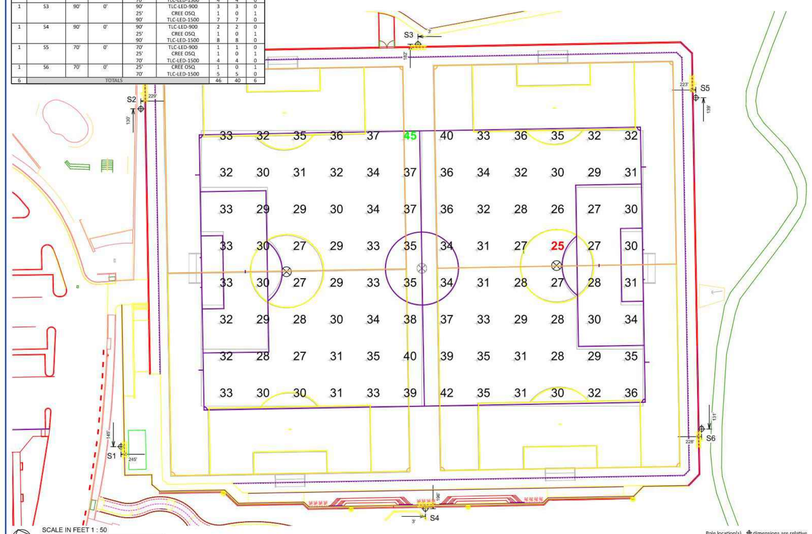
ILLUMINATION SUMMARY

EQUIPMENT LIST FOR AREAS SHOWN

Pole QTY	Pole LOCATION	Pole SIZE	Pole GRADE ELEVATION	Luminaires MOUNTING HEIGHT	Luminaires LUMINAIRE TYPE	Luminaires QTY / POLE	Luminaires THIS GRID	Luminaires OTHER GRIDS
1	S1	80'	0'	25'	CREE OSQ	0	0	1
				80'	TLC-LED-1500	5	5	0
1	S2	70'	0'	70'	TLC-LED-900	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1200	4	4	0
1	S3	90'	0'	90'	TLC-LED-900	3	3	0
				25'	CREE OSQ	1	0	1
				90'	TLC-LED-1500	7	7	0
1	S4	90'	0'	90'	TLC-LED-900	2	2	0
				25'	CREE OSQ	1	0	1
				90'	TLC-LED-1500	8	8	0
1	S5	70'	0'	70'	TLC-LED-900	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1200	4	4	0
1	S6	70'	0'	25'	CREE OSQ	1	0	1
				70'	TLC-LED-1200	5	5	0
6	TOTALS					44	40	6



SCALE IN FEET 1 : 50
0' 50' 100'

Pole location(s) ✥ dimensions are relative to 0,0 reference point(s) ⊗

ENGINEERED DESIGN By: H.Sabers · File #172899Dr · 29-Apr-22

Ramsay Field Soccer/Multipurpose

Watsonville,CA

GRID SUMMARY

Name:	Soccer 3
Size:	360' x 225'
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

	Entire Grid
Scan Average:	**32.13**
Maximum:	45
Minimum:	25
Avg / Min:	1.28
Max / Min:	**1.80**
UG (adjacent pts):	1.22
CU:	0.48
No. of Points:	96

LUMINAIRE INFORMATION

Applied Circuits:	A, B
No. of Luminaires:	**40**
Total Load:	53.42 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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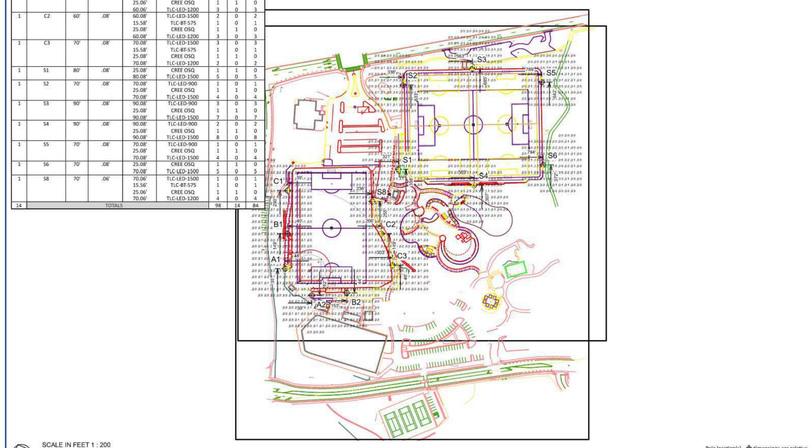
ILLUMINATION SUMMARY

EQUIPMENT LIST FOR AREAS SHOWN

Pole QTY	Pole LOCATION	Pole SIZE	Pole GRADE ELEVATION	Luminaires MOUNTING HEIGHT	Luminaires LUMINAIRE TYPE	Luminaires QTY / POLE	Luminaires THIS GRID	Luminaires OTHER GRIDS
1	A1	60'	0'	60'	TLC-LED-900	1	1	0
				15.5'	TLC-RT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	A2	60'	0'	15.5'	TLC-RT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	B1	60'	0'	60'	TLC-LED-1500	1	1	0
				60'	TLC-LED-900	1	1	0
				15.5'	TLC-RT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	4	4	0
1	B2	60'	0'	15.5'	TLC-RT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	4	4	0
1	C1	60'	0'	60'	TLC-LED-1500	1	1	0
				15.5'	TLC-RT-575	1	1	0
				25'	CREE OSQ	1	1	0
				60'	TLC-LED-1200	3	3	0
1	C2	60'	0'	60'	TLC-LED-1500	2	0	2
				15.5'	TLC-RT-575	1	0	1
				25'	CREE OSQ	1	1	0
				60'	TLC-LED-1200	3	0	3
1	C3	70'	0'	70'	TLC-LED-1500	3	0	3
				15.5'	TLC-RT-575	1	0	1
				25'	CREE OSQ	1	1	0
				70'	TLC-LED-1200	4	0	4
1	S1	80'	0'	25'	CREE OSQ	1	1	0
				80'	TLC-LED-1500	4	0	5
1	S2	70'	0'	70'	TLC-LED-900	1	0	1
				25'	CREE OSQ	1	1	0
				70'	TLC-LED-1500	4	0	4
1	S3	90'	0'	90'	TLC-LED-900	3	0	3
				25'	CREE OSQ	1	1	0
				90'	TLC-LED-1500	7	0	7
1	S4	90'	0'	90'	TLC-LED-900	2	0	2
				25'	CREE OSQ	1	1	0
				90'	TLC-LED-1500	8	0	8
1	S5	70'	0'	70'	TLC-LED-900	1	0	1
				25'	CREE OSQ	1	1	0
				70'	TLC-LED-1200	4	0	4
1	S6	70'	0'	25'	CREE OSQ	1	1	0
				70'	TLC-LED-1200	5	0	5
1	S8	70'	0'	70'	TLC-LED-1500	1	0	1
				15.5'	TLC-RT-575	1	0	1
				25'	CREE OSQ	1	1	0
				70'	TLC-LED-1200	4	0	4
14	TOTALS					94	14	80



SCALE IN FEET 1 : 200
0' 200' 400'

Pole location(s) ✥ dimensions are relative to 0,0 reference point(s) ⊗

ENGINEERED DESIGN By: H.Sabers · File #172899Dr · 29-Apr-22

Ramsay Field Soccer/Multipurpose

Watsonville,CA

GRID SUMMARY

Name:	Pathway Area
Size:	1200' x 1025'
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

	Entire Grid
Scan Average:	**0.53**
Maximum:	5
Minimum:	0
Avg / Min:	104.37
Max / Min:	**979.68**
UG (adjacent pts):	12.75
CU:	0.97
No. of Points:	1040

LUMINAIRE INFORMATION

Applied Circuits:	E
No. of Luminaires:	**14**
Total Load:	1.46 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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ILLUMINATION SUMMARY

REGISTERED LANDSCAPE ARCHITECT
DEREK MCKEE
No. 4148
Signature
EXPIRATION DATE: DEC. 2022
STATE OF CALIFORNIA

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
2455 The Alameda
Santa Clara, CA 95050
tel: 408.985.7200
fax: 408.985.7260
www.VerdeDesignInc.com

CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

MUSCO SPORTS LIGHTING PLANS

Approved by: MARIA ESTHER CARRANZA RODRIGUEZ Date:

Designed by:
Drawn by: VERDE
Checked by: TY/DM
Job No. 2106300
Scale: SEE PLANS
SHEET M1.2
X of

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

DRAWING NAME: Y:\Projects-SC\2021\2106300 – Watsonville Ramsay Park Improvements\cad_MUSCO.dwg
PLOT DATE: 07-01-22 PLOTTED BY: staton78

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4

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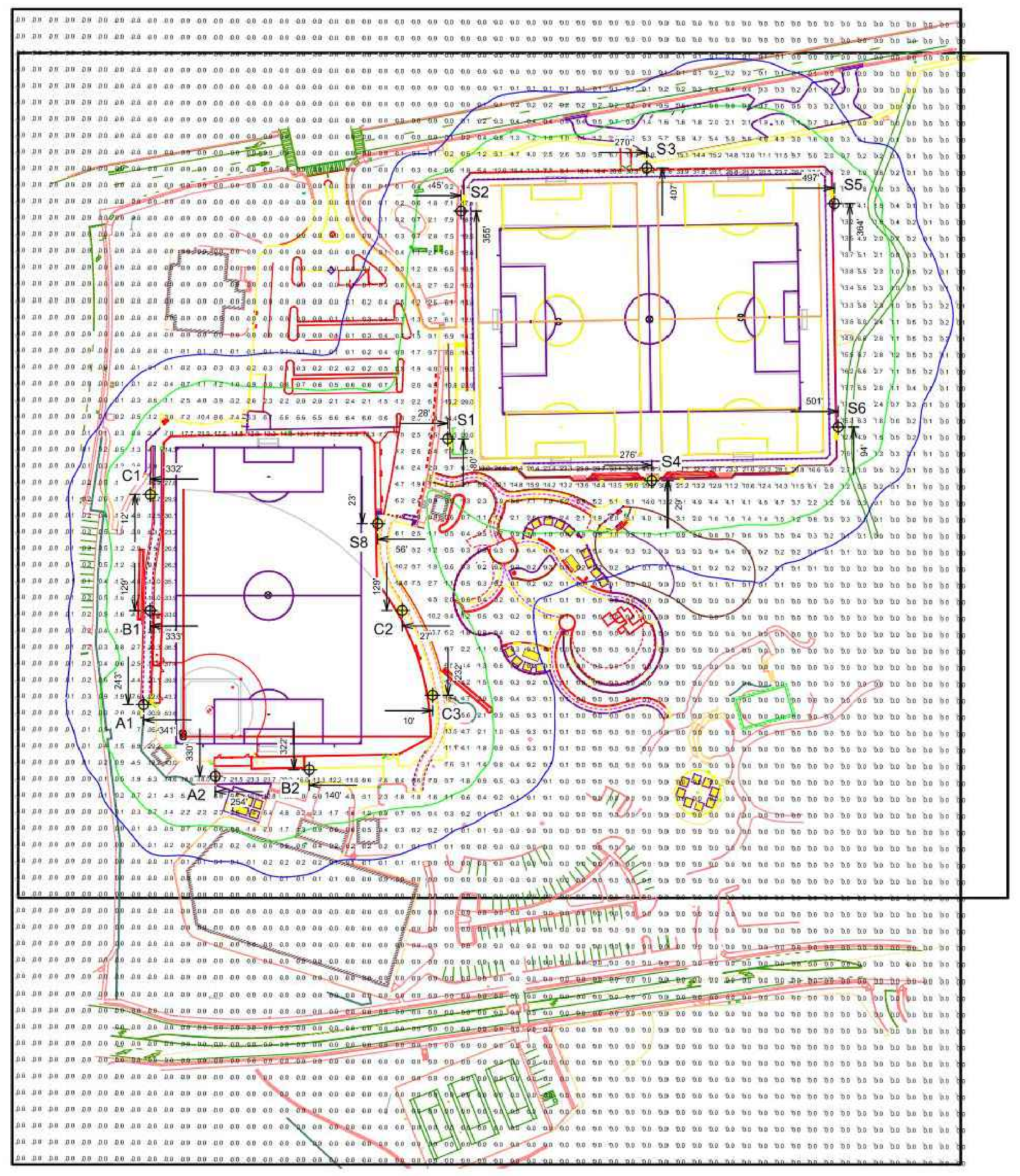

SCALE IN FEET 1 : 150
0' 150' 300'

ENGINEERED DESIGN By: H.Sabers · File #172899Dr · 29-Apr-22

Ramsay Field Soccer/Multipurpose
Watsonville,CA

GRID SUMMARY
Name: **Blanket Grid**
Size: 1150' x 1400'
Spacing: 20.0' x 20.0'
Height: 3.0' above grade

ILLUMINATION SUMMARY
MAINTAINED HORIZONTAL FOOTCANDLES

	Entire Grid
Scan Average:	**1.49**
Maximum:	57
Minimum:	0
Avg / Min:	-
Max / Min:	-
UG (adjacent pts):	7.57
CU:	0.96
No. of Points:	3396

LUMINAIRE INFORMATION
Applied Circuits: A, B, C, D, E
No. of Luminaires: **98**
Total Load: 103.12 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

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ILLUMINATION SUMMARY

EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
1	A1	60'	-	60'	TLC-LED-900	1	1	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	A2	60'	-	15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	B1	60'	-	60'	TLC-LED-1500	1	1	0
				60'	TLC-LED-900	1	1	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	4	4	0
1	B2	60'	-	15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	4	4	0
1	C1	60'	0'	60'	TLC-LED-1500	1	1	0
				15.48'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	C2	60'	-	60'	TLC-LED-1500	2	2	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	C3	70'	-	70'	TLC-LED-1500	3	3	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1200	2	2	0
1	S1	80'	-	25'	CREE OSQ	1	0	1
				80'	TLC-LED-1500	5	5	0
1	S2	70'	-	70'	TLC-LED-900	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1500	4	4	0
1	S3	90'	-	90'	TLC-LED-900	3	3	0
				25'	CREE OSQ	1	0	1
				90'	TLC-LED-1500	7	7	0
1	S4	90'	-	90'	TLC-LED-900	2	2	0
				25'	CREE OSQ	1	0	1
				90'	TLC-LED-1500	8	8	0
1	S5	70'	-	70'	TLC-LED-900	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1500	4	4	0
1	S6	70'	-	25'	CREE OSQ	1	0	1
				70'	TLC-LED-1500	5	5	0
1	S8	70'	0'	70'	TLC-LED-1500	1	1	0
				15.48'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1200	4	4	0
14			TOTALS			98	84	14



SCALE IN FEET 1 : 100
0' 100' 200'

ENGINEERED DESIGN By: H.Sabers · File #172899Dr · 29-Apr-22

Ramsay Field Soccer/Multipurpose
Watsonville,CA

GRID SUMMARY
Name: **North Spill Line**
Spacing: 30.0'
Height: 3.0' above grade

ILLUMINATION SUMMARY
MAX VERTICAL FOOTCANDLES

	Entire Grid
Scan Average:	0.1763
Maximum:	0.89
Minimum:	0.00
No. of Points:	36

LUMINAIRE INFORMATION
Applied Circuits: A, B, C, D
No. of Luminaires: **84**
Total Load: 101.66 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

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ILLUMINATION SUMMARY

EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
1	A1	60'	-	60'	TLC-LED-900	1	1	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	A2	60'	-	15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	B1	60'	-	60'	TLC-LED-1500	1	1	0
				60'	TLC-LED-900	1	1	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	4	4	0
1	B2	60'	-	15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	4	4	0
1	C1	60'	0'	60'	TLC-LED-1500	1	1	0
				15.48'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	C2	60'	-	60'	TLC-LED-1500	2	2	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	C3	70'	-	70'	TLC-LED-1500	3	3	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1200	2	2	0
1	S1	80'	-	25'	CREE OSQ	1	0	1
				80'	TLC-LED-1500	5	5	0
1	S2	70'	-	70'	TLC-LED-900	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1500	4	4	0
1	S3	90'	-	90'	TLC-LED-900	3	3	0
				25'	CREE OSQ	1	0	1
				90'	TLC-LED-1500	7	7	0
1	S4	90'	-	90'	TLC-LED-900	2	2	0
				25'	CREE OSQ	1	0	1
				90'	TLC-LED-1500	8	8	0
1	S5	70'	-	70'	TLC-LED-900	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1500	4	4	0
1	S6	70'	-	25'	CREE OSQ	1	0	1
				70'	TLC-LED-1500	5	5	0
1	S8	70'	0'	70'	TLC-LED-1500	1	1	0
				15.48'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1200	4	4	0
14			TOTALS			98	84	14



SCALE IN FEET 1 : 100
0' 100' 200'

ENGINEERED DESIGN By: H.Sabers · File #172899Dr · 29-Apr-22

Ramsay Field Soccer/Multipurpose
Watsonville,CA

GRID SUMMARY
Name: **North Spill Line**
Spacing: 30.0'
Height: 3.0' above grade

ILLUMINATION SUMMARY
HORIZONTAL FOOTCANDLES

	Entire Grid
Scan Average:	0.0963
Maximum:	0.51
Minimum:	0.00
No. of Points:	36

LUMINAIRE INFORMATION
Applied Circuits: A, B, C, D
No. of Luminaires: **84**
Total Load: 101.66 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

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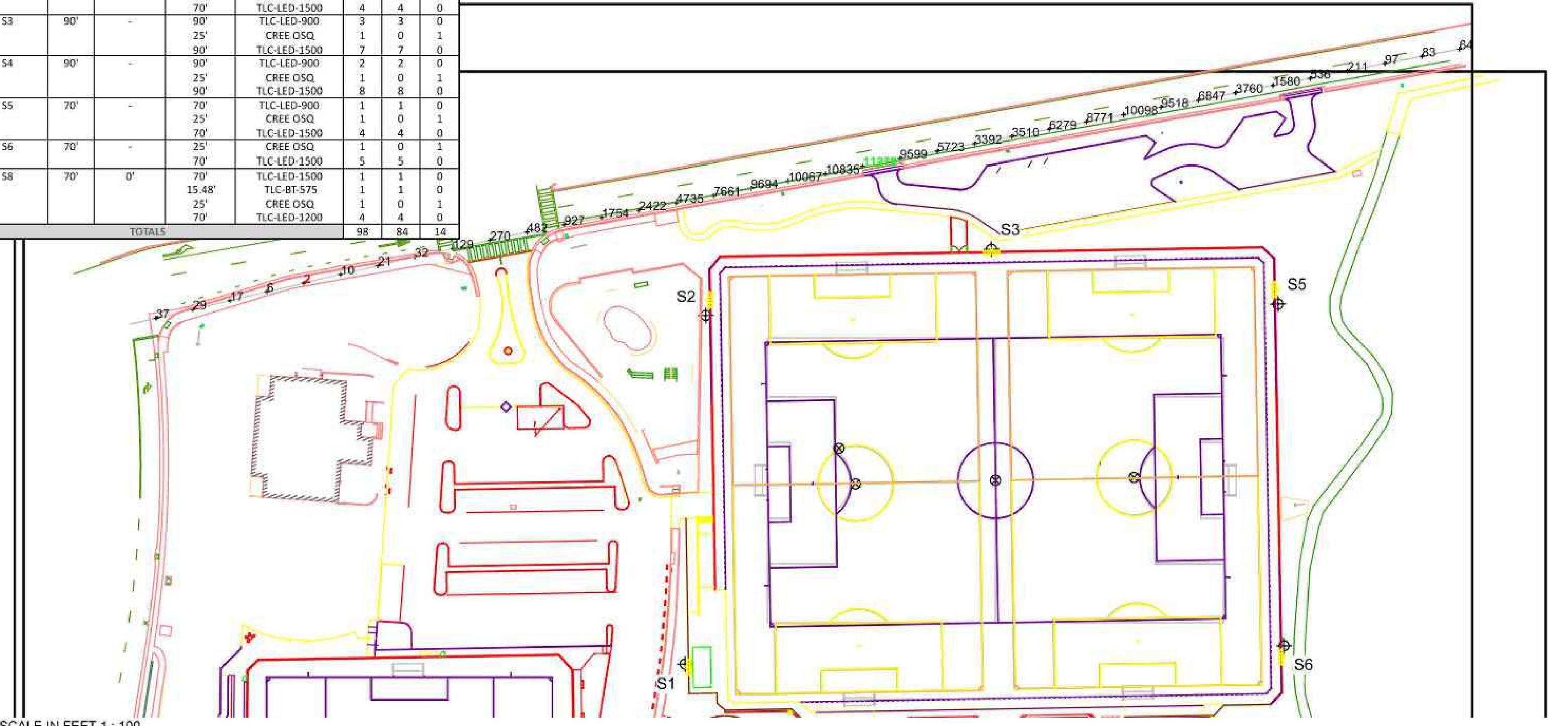
ILLUMINATION SUMMARY

EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
1	A1	60'	-	60'	TLC-LED-900	1	1	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	A2	60'	-	15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	B1	60'	-	60'	TLC-LED-1500	1	1	0
				60'	TLC-LED-900	1	1	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	4	4	0
1	B2	60'	-	15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	4	4	0
1	C1	60'	0'	60'	TLC-LED-1500	1	1	0
				15.48'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	C2	60'	-	60'	TLC-LED-1500	2	2	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	C3	70'	-	70'	TLC-LED-1500	3	3	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1200	2	2	0
1	S1	80'	-	25'	CREE OSQ	1	0	1
				80'	TLC-LED-1500	5	5	0
1	S2	70'	-	70'	TLC-LED-900	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1500	4	4	0
1	S3	90'	-	90'	TLC-LED-900	3	3	0
				25'	CREE OSQ	1	0	1
				90'	TLC-LED-1500	7	7	0
1	S4	90'	-	90'	TLC-LED-900	2	2	0
				25'	CREE OSQ	1	0	1
				90'	TLC-LED-1500	8	8	0
1	S5	70'	-	70'	TLC-LED-900	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1500	4	4	0
1	S6	70'	-	25'	CREE OSQ	1	0	1
				70'	TLC-LED-1500	5	5	0
1	S8	70'	0'	70'	TLC-LED-1500	1	1	0
				15.48'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1200	4	4	0
14			TOTALS			98	84	14



SCALE IN FEET 1 : 100
0' 100' 200'

ENGINEERED DESIGN By: H.Sabers · File #172899Dr · 29-Apr-22

Ramsay Field Soccer/Multipurpose
Watsonville,CA

GRID SUMMARY
Name: **North Spill Line**
Spacing: 30.0'
Height: 3.0' above grade

ILLUMINATION SUMMARY
CANDELA (PER FIXTURE)

	Entire Grid
Scan Average:	3624.2937
Maximum:	11277.76
Minimum:	1.65
No. of Points:	36

LUMINAIRE INFORMATION
Applied Circuits: A, B, C, D
No. of Luminaires: **84**
Total Load: 101.66 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

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ILLUMINATION SUMMARY

REGISTERED LANDSCAPE ARCHITECT
DEREK McKEE
No. 4148
Signature
EXPIRATION DATE: DEC. 2022
STATE OF CALIFORNIA

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
2455 The Alameda
Santa Clara, CA 95050
tel: 408.985.7200
fax: 408.985.7260
www.VerdeDesignInc.com

CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

MUSCO SPORTS LIGHTING PLANS

Approved by MARIA ESTHER CARRANZA RODRIGUEZ Date

Designed by
Drawn by VERDE
Checked by TY/DM
Job No. 2106300
Scale SEE PLANS
SHEET M1.3
X of

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES
0 1 2 3 4

DRAWING NAME: Y:\Projects-SC\2021\2106300 - Watsonville Ramsay Park Improvements\cad_MUSCO.dwg
PLOT DATE: 07-01-22 PLOTTED BY: station78

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EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
1	A1	60'	-	60'	TLC-LED-900	1	1	0
				15.5'	TLC-RT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	A2	60'	-	15.5'	TLC-RT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	B1	60'	-	60'	TLC-LED-1500	1	1	0
				60'	TLC-LED-900	1	1	0
				15.5'	TLC-RT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	4	4	0
1	B2	60'	-	15.5'	TLC-RT-575	1	1	0
				60'	TLC-LED-900	1	1	0
				15.5'	TLC-RT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	4	4	0
1	C1	60'	0'	60'	TLC-LED-1500	1	1	0
				15.48'	TLC-RT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	C2	60'	-	60'	TLC-LED-1500	2	2	0
				15.5'	TLC-RT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	C3	70'	-	70'	TLC-LED-1500	3	3	0
				15.5'	TLC-RT-575	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1200	3	3	0
1	S1	80'	-	25'	CREE OSQ	1	0	1
				80'	TLC-LED-1500	5	5	0
1	S2	70'	-	70'	TLC-LED-900	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1500	4	4	0
1	S3	90'	-	90'	TLC-LED-900	3	3	0
				25'	CREE OSQ	1	0	1
				90'	TLC-LED-1500	7	7	0
1	S4	90'	-	90'	TLC-LED-900	2	2	0
				25'	CREE OSQ	1	0	1
				90'	TLC-LED-1500	8	8	0
1	S5	70'	-	70'	TLC-LED-900	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1500	4	4	0
1	S6	70'	-	25'	CREE OSQ	1	0	1
				70'	TLC-LED-1500	5	5	0
1	S8	70'	0'	70'	TLC-LED-1500	1	1	0
				15.48'	TLC-RT-575	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1200	4	4	0
14	TOTALS					98	84	14



Pole location(s) ✣ dimensions are relative to 0,0 reference point(s) ⊗

SCALE IN FEET 1 : 100
0' 100' 200'

ENGINEERED DESIGN By: H.Sabers · File #172899Dr · 29-Apr-22

Ramsay Field Soccer/Multipurpose

Watsonville,CA

GRID SUMMARY

Name:	West Spill Line
Spacing:	30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY

HORIZONTAL FOOTCANDLES

	Entire Grid
Scan Average:	0.0291
Maximum:	0.18
Minimum:	0.00
No. of Points:	32

LUMINAIRE INFORMATION

Applied Circuits:	A, B, C, D
No. of Luminaires:	**84**
Total Load:	101.66 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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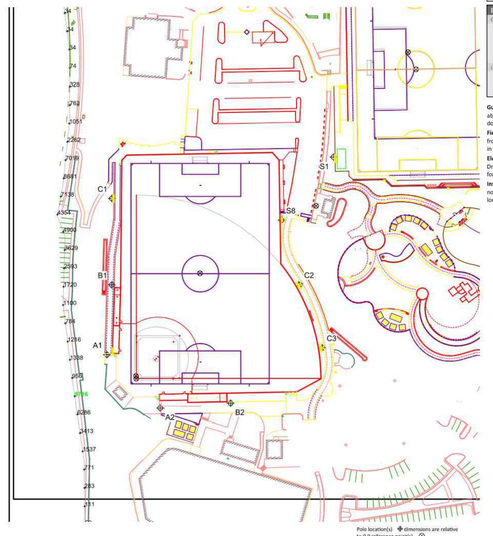
ILLUMINATION SUMMARY

EQUIPMENT LIST FOR AREAS SHOWN



Pole location(s) ✣ dimensions are relative to 0,0 reference point(s) ⊗

SCALE IN FEET 1 : 100
0' 100' 200'

ENGINEERED DESIGN By: H.Sabers · File #172899Dr · 29-Apr-22

Ramsay Field Soccer/Multipurpose
Watsonville,CA

GRID SUMMARY
Name: West Spill Line
Spacing: 30.0'
Height: 3.0' above grade

ILLUMINATION SUMMARY
CANDELA (PER FIXTURE)
Entire Grid
Scan Average: 2257.3960
Maximum: 9716.33
Minimum: 1.39
No. of Points: 32
LUMINAIRE INFORMATION
Applied Circuits: A, B, C, D
No. of Luminaires: 84
Total Load: 101.66 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.
Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.
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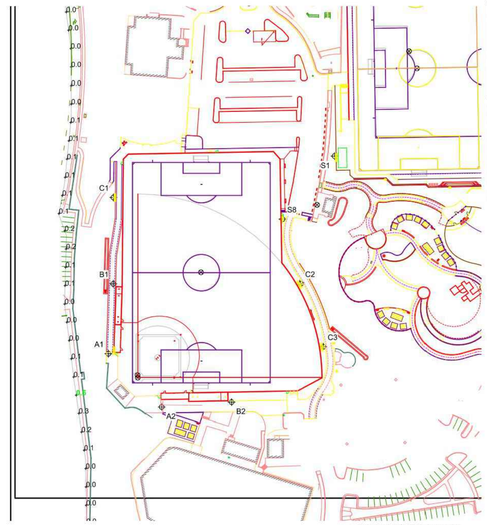
ILLUMINATION SUMMARY

EQUIPMENT LIST FOR AREAS SHOWN



Pole location(s) ✣ dimensions are relative to 0,0 reference point(s) ⊗

SCALE IN FEET 1 : 100
0' 100' 200'

ENGINEERED DESIGN By: H.Sabers · File #172899Dr · 29-Apr-22

Ramsay Field Soccer/Multipurpose
Watsonville,CA

GRID SUMMARY
Name: South Spill Line
Spacing: 30.0'
Height: 3.0' above grade

ILLUMINATION SUMMARY
HORIZONTAL FOOTCANDLES
Entire Grid
Scan Average: 0.0000
Maximum: 0.00
Minimum: 0.00
No. of Points: 34
LUMINAIRE INFORMATION
Applied Circuits: A, B, C, D
No. of Luminaires: 84
Total Load: 101.66 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.
Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.
Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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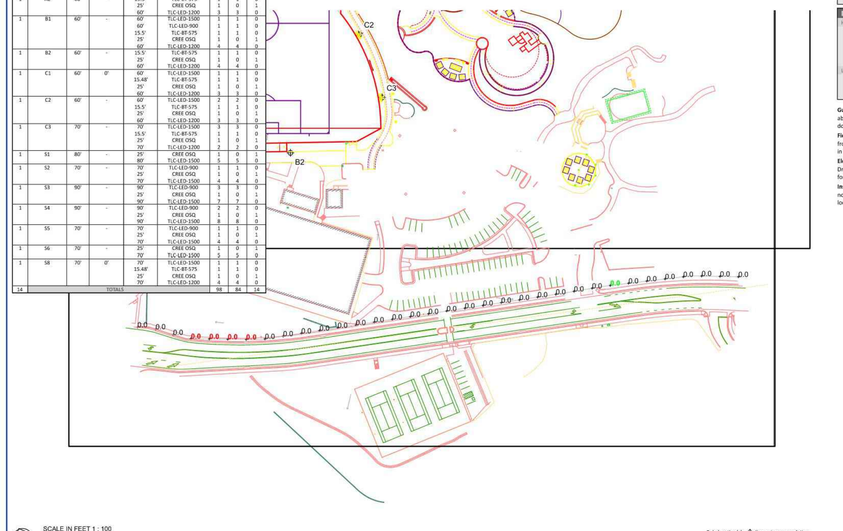
ILLUMINATION SUMMARY

EQUIPMENT LIST FOR AREAS SHOWN



Pole location(s) ✣ dimensions are relative to 0,0 reference point(s) ⊗

SCALE IN FEET 1 : 100
0' 100' 200'

ENGINEERED DESIGN By: H.Sabers · File #172899Dr · 29-Apr-22

Ramsay Field Soccer/Multipurpose
Watsonville,CA

GRID SUMMARY
Name: South Spill Line
Spacing: 30.0'
Height: 3.0' above grade

ILLUMINATION SUMMARY
HORIZONTAL FOOTCANDLES
Entire Grid
Scan Average: 0.0000
Maximum: 0.00
Minimum: 0.00
No. of Points: 34
LUMINAIRE INFORMATION
Applied Circuits: A, B, C, D
No. of Luminaires: 84
Total Load: 101.66 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.
Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.
Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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ILLUMINATION SUMMARY

REGISTERED LANDSCAPE ARCHITECT
DEREK MCKEE
No. 4148
Signature
EXPIRATION DATE: DEC. 2022
STATE OF CALIFORNIA

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
2455 The Alameda
Santa Clara, CA 95050
tel: 408.985.7200
fax: 408.985.7260
www.VerdeDesignInc.com

CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

MUSCO SPORTS LIGHTING PLANS

Approved by MARIA ESTHER CARRANZA RODRIGUEZ Date

Designed by
Drawn by VERDE
Checked by TY/DM
Job No. 2106300
Scale SEE PLANS
SHEET M1.4
X of

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

DRAWING NAME: Y:\Projects-SC\2021\2106300 – Watsonville Ramsay Park Improvements\cad_MUSCO.dwg
PLOT DATE: 07-01-22 PLOTTED BY: station78

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4

VERDE PROJECT NO. 2106300

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EQUIPMENT LIST FOR AREAS SHOWN

Pole QTY	Pole LOCATION	Pole SIZE	Pole GRADE ELEVATION	Luminaires MOUNTING HEIGHT	Luminaires LUMINAIRE TYPE	Luminaires QTY / POLE	Luminaires THIS GRID	Luminaires OTHER GRIDS
1	A1	60'	-	60'	TLC-LED-900	1	1	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	1	1	0
1	A2	60'	-	15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	B1	60'	-	60'	TLC-LED-1500	1	1	0
				60'	TLC-LED-900	1	1	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	4	4	0
1	B2	60'	-	15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	4	4	0
1	C1	60'	0'	60'	TLC-LED-1500	1	1	0
				15.48'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	C2	60'	-	60'	TLC-LED-1500	2	2	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	C3	70'	-	70'	TLC-LED-1500	3	3	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1200	2	2	0
1	S1	80'	-	25'	CREE OSQ	1	0	1
				80'	TLC-LED-1500	5	5	0
1	S2	70'	-	70'	TLC-LED-900	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1500	4	4	0
1	S3	90'	-	90'	TLC-LED-900	3	3	0
				25'	CREE OSQ	1	0	1
				90'	TLC-LED-1500	7	7	0
1	S4	90'	-	90'	TLC-LED-900	2	2	0
				25'	CREE OSQ	1	0	1
				90'	TLC-LED-1500	8	8	0
1	S5	70'	-	70'	TLC-LED-900	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1500	4	4	0
1	S6	70'	-	25'	CREE OSQ	1	0	1
				70'	TLC-LED-1500	5	5	0
1	S8	70'	0'	70'	TLC-LED-1500	1	1	0
				15.48'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1200	4	4	0
14	TOTALS					58	84	14



SCALE IN FEET 1 : 100
0' 100' 200'

Pole location(s) ✥ dimensions are relative to 0,0 reference point(s) ⊗

ENGINEERED DESIGN By: H.Sabers · File #172899Dr · 29-Apr-22

Ramsay Field Soccer/Multipurpose

Watsonville,CA

GRID SUMMARY

Name:	South Spill Line
Spacing:	10.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY

MAX VERTICAL FOOTCANDLES

	Entire Grid
Scan Average:	0.0002
Maximum:	0.00
Minimum:	0.00
No. of Points:	34

LUMINAIRE INFORMATION

Applied Circuits:	A, B, C, D
No. of Luminaires:	**84**
Total Load:	101.66 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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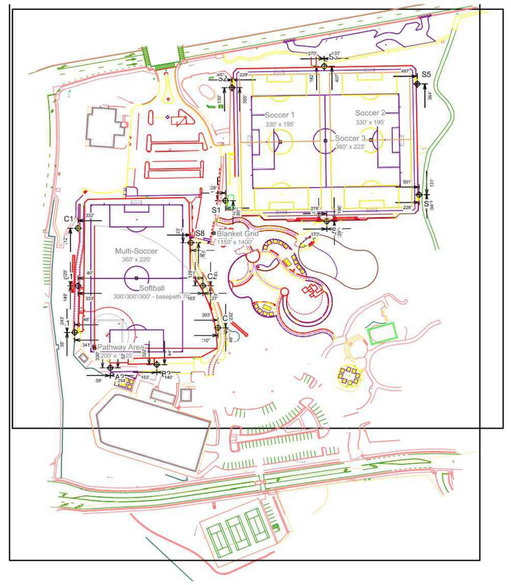
ILLUMINATION SUMMARY



SCALE IN FEET 1 : 150
0' 150' 300'

Pole location(s) ✥ dimensions are relative to 0,0 reference point(s) ⊗

ENGINEERED DESIGN By: H.Sabers · File #172899Dr · 29-Apr-22

Ramsay Field Soccer/Multipurpose

Watsonville,CA

EQUIPMENT LAYOUT

INCLUDES:
- Blanket Grid
- Multi-Soccer
- Pathway Area
- Soccer 1
- Soccer 2
- Soccer 3
- Softball

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

EQUIPMENT LIST FOR AREAS SHOWN

Pole QTY	Pole LOCATION	Pole SIZE	Pole GRADE ELEVATION	Luminaires MOUNTING HEIGHT	Luminaires LUMINAIRE TYPE	Luminaires QTY / POLE
1	A1	60'	-	60'	TLC-LED-900	1
				15.5'	TLC-BT-575	1
				25'	CREE OSQ	1
				60'	TLC-LED-1200	3
1	A2	60'	-	15.5'	TLC-BT-575	1
				25'	CREE OSQ	1
				60'	TLC-LED-1200	3
1	B1	60'	-	60'	TLC-LED-1500	1
				60'	TLC-LED-900	1
				15.5'	TLC-BT-575	1
				25'	CREE OSQ	1
				60'	TLC-LED-1200	4
1	B2	60'	-	15.5'	TLC-BT-575	1
				25'	CREE OSQ	1
				60'	TLC-LED-1200	4
1	C1	60'	-	60'	TLC-LED-1500	1
				15.5'	TLC-BT-575	1
				25'	CREE OSQ	1
				60'	TLC-LED-1200	3
1	C2	60'	-	60'	TLC-LED-1500	2
				15.5'	TLC-BT-575	1
				25'	CREE OSQ	1
				60'	TLC-LED-1200	3
1	C3	70'	-	70'	TLC-LED-1500	3
				15.5'	TLC-BT-575	1
				25'	CREE OSQ	1
				70'	TLC-LED-1200	2
1	S1	80'	-	25'	CREE OSQ	1
				80'	TLC-LED-1500	5
1	S2	70'	-	70'	TLC-LED-900	1
				25'	CREE OSQ	1
				70'	TLC-LED-1500	4
1	S3	90'	-	90'	TLC-LED-900	3
				25'	CREE OSQ	1
				90'	TLC-LED-1500	7
1	S4	90'	-	90'	TLC-LED-900	2
				25'	CREE OSQ	1
				90'	TLC-LED-1500	8
1	S5	70'	-	70'	TLC-LED-900	1
				25'	CREE OSQ	1
				70'	TLC-LED-1500	4
1	S6	70'	-	25'	CREE OSQ	1
				70'	TLC-LED-1500	5
1	S8	70'	-	70'	TLC-LED-1500	1
				15.5'	TLC-BT-575	1
				25'	CREE OSQ	1
				70'	TLC-LED-1200	4
14	TOTALS					58

SINGLE LUMINAIRE AMPERAGE DRAW CHART

Ballast Specifications (Max input power listed)	Line Amperage Per Luminaire					
Single Phase Voltage	208	220	240	277	347	380	480
	1ø	1ø	1ø	1ø	1ø	3ø	3ø
TLC-LED-1200	5.8	5.5	5.0	4.3	4.0	3.0	2.5
TLC-LED-1500	7.2	6.8	6.2	5.4	4.7	3.7	3.1
TLC-LED-900	5.3	5.0	4.6	3.9	3.7	2.9	2.3
TLC-BT-575	3.1	2.9	2.7	2.3	2.0	1.8	1.5
Cree OSQ				0.9		0.3	

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EQUIPMENT LAYOUT

EQUIPMENT LIST FOR AREAS SHOWN



SCALE IN FEET 1 : 100
0' 100' 200'

Pole location(s) ✥ dimensions are relative to 0,0 reference point(s) ⊗

ENGINEERED DESIGN By: H.Sabers · File #172899Dr · 29-Apr-22

Ramsay Field Soccer/Multipurpose

Watsonville,CA

GRID SUMMARY

Name: South Spill Line
Spacing: 10.0'
Height: 3.0' above grade

ILLUMINATION SUMMARY

CANDELA (PER FIXTURE)

Entire Grid
Scan Average: 46.4523
Maximum: 270.96
Minimum: 0.00
No. of Points: 34

LUMINAIRE INFORMATION

Applied Circuits: A, B, C, D
No. of Luminaires: 84
Total Load: 101.66 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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ILLUMINATION SUMMARY

REGISTERED LANDSCAPE ARCHITECT
DEREK MCKEE
No. 4148
Signature
EXPIRATION DATE: DEC. 2022
STATE OF CALIFORNIA

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
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Santa Clara, CA 95050
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www.VerdeDesigninc.com

CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

MUSCO SPORTS LIGHTING PLANS

Approved by _____ Date _____
MARIA ESTHER CARRANZA RODRIGUEZ

Designed by _____
Drawn by VERDE
Checked by TY/DM
Job No. 2106300
Scale SEE PLANS
SHEET M1.5
X of _____

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

DRAWING NAME: Y:\Projects-SC\2021\2106300 - Watsonville Ramsay Park Improvements\cad_MUSCO.dwg
PLOT DATE: 07-01-22 PLOTTED BY: station78

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4

POLE FOUNDATION SCHEDULE
(SEE LIGHT POLE FOUNDATION DETAIL ON C2)

TYPE	ASD GROUNDLINE FORCES (MAXIMUM)			C.I.P. DEEP FOUNDATION				PRECAST BASE	FOUNDATION DETAIL
	MOMENT (M) KIP-FT	SHEAR (V) KIPS	VERTICAL (P) KIPS *	DIAMETER INCHES	EMBEDMENT FEET	VERTICAL REINFORCING (ASTM A615 GR 60)	HOOP TIE SIZE & SPACING (ASTM A615 GR 60)	EMBEDMENT FEET	
LSS60-A	36.510	0.984	1.459	36"	11'-0"	8-#8	#4 @ 6" O.C. TOP 9'-0" & #4 @ 12" O.C. BELOW	10'-0"	B/C2
LSS70-B	53.960	1.208	1.847	30"	14'-0"	–	–	12'-0"	A/C2
LSS80-A	61.420	1.245	2.312	30"	16'-0"	–	–	14'-0"	A/C2
LSS90-A	119.100	1.973	3.854	36"	18'-0"	–	–	16'-0"	A/C2
(E)LSS60-AA	29.530	0.825	1.126	36"	20'-0"	8-#8	#4 @ 12" O.C.	10'-0"	EXISTING
(E)LSS60-A	36.510	0.984	1.459	36"	20'-0"	8-#8	#4 @ 12" O.C.	10'-0"	EXISTING
(E)LSS60-B	39.190	1.048	1.777	36"	20'-0"	8-#8	#4 @ 12" O.C.	12'-0"	EXISTING

* VERTICAL FORCE DOES NOT INCLUDE WEIGHT OF PRECAST BASE. VERTICAL (P) LOAD IS THE DRESSED POLE WEIGHT FOR ERECTION PURPOSES.

PRECAST BASE IDENTIFICATION

PRECAST BASE TYPE	WEIGHT LBS	OVERALL LENGTH FEET	HEIGHT ABOVE GRADE FEET	EMBEDMENT IN C.I.P. DEEP FOUNDATION FEET	OUTSIDE DIAMETER INCHES
2B	1,840	17'-3"	7'-3"	8'-0"	12.00"
3B	2,670	20'-0"	8'-0"	10'-0"	13.375"
4B	3,710	22'-0"	8'-0"	12'-0"	15.750"
5B	5,180	23'-11"	7'-11"	14'-0"	18.250"

POLE AUXILIARY ATTACHMENTS

LOCATION MARK	ATTACHMENT TYPE & QUANTITY	ATTACHMENT ELEVATION A.G.L. – FT
A1,A2,B1,B2,C1,C2,C3,S1, S2,S3,S4,S5,S6,S8	1 CREE OSQ	25.0
A1,A2,B1,B2,C1,C2,C3,S8	1 LED 575	15.5

POLE IDENTIFICATION

LOCATION MARK	POLE TYPE	PRECAST BASETYPE	FIXTURE CONFIGURATION (MAX # OF FIXTURES PER CROSSARM)	FIXTURE EPA (MAXIMUM)
A1,A2	(E)LSS60-AA	2B	4(3LED1200 1LED900)	7.6
B1,B2	(E)LSS60-B	3B	6(4LED1200 2LED1500)	11.4
C1	LSS60-A	2B	4(3LED1200 1LED1500)	8.8
C2	(E)LSS60-A	2B	5(3LED1200 2LED1500)	11.0
C3,S2,S5,S6,S8	LSS70-B	3B	5 LED1500	15.0
S1	LSS80-A	4B	5 LED1500	12.5
S3,S4	LSS90-A	5B	10 (5/5) LED1500	26.0

LED 1500 FIXTURE: EPA = 3.0 SQ-FT MAX & WEIGHT = 80 LBS (FIXTURE ALONE), PER MUSCO LIGHTING, INC.
LED 1200 FIXTURE: EPA = 3.0 SQ-FT MAX & WEIGHT = 45 LBS (FIXTURE ALONE), PER MUSCO LIGHTING, INC.
LED 900 FIXTURE: EPA = 2.6 SQ-FT MAX & WEIGHT = 40 LBS (FIXTURE ALONE), PER MUSCO LIGHTING, INC.

REGISTERED PROFESSIONAL ENGINEER — No. 4506 Exp. 6-30-23 — STRUCTURAL — STATE OF CALIFORNIA

SCOPE OF WORK
INSTALLATION OF NEW LIGHT POLES AND FOUNDATIONS FOR POLES S1,S2,S3,S4,S5,S6,S8,C3.
INSTALLATION OF NEW FIXTURES, CROSSARMS, AND BALLAST BOXES FOR POLE A1,A2,B1,B2,C2.
RELOCATION OF POLE C1. INSTALLATION OF FOUNDATIONS, NEW FIXTURES, CROSSARMS, AND BALLAST BOXES FOR POLE C1.

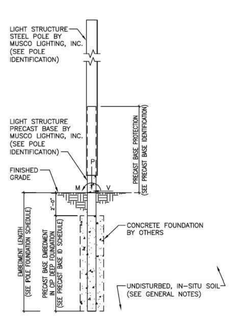
GENERAL NOTES
ALL CONSTRUCTION AND WORKMANSHIP SHALL CONFORM TO THE CALIFORNIA BUILDING CODE, 2019 EDITION.
WIND– ASCE 7–16, Vult = 91 MPH (EXPOSURE C); Vasd = 70 MPH (EXPOSURE C), RISK CATEGORY II
SEISMIC – SS=2.525; S1=0.972; SDS=1.683; SD1=1.085; RISK CATEGORY=II; Ie=1.0; SITE CLASS=D; R=1.5; SEISMIC DESIGN CATEGORY=E; SEISMIC FORCE-RESISTING SYSTEM=NON-BUILDING STRUCTURE, NOT SIMILAR TO BUILDINGS; ANALYSIS PROCEDURE=EQUIVALENT LATERAL FORCE PROCEDURE.
REFERENCE POLE LOCATION DRAWING FOR ACTUAL POLE PLACEMENT AND SITE LOCATION.
THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION PROCEDURES AND SAFETY CONDITIONS AT THE JOB SITE.

SOIL DESIGN PARAMETERS
REFERENCE GEOTECHNICAL ENGINEERING INVESTIGATION PREPARED BY PACIFIC CREST ENGINEERING INC., DATED JANUARY 23, 2022, PROJECT NO. 1966.4–S281–R34.
ALLOWABLE VERTICAL SOIL CAPACITY =500 PSF(SKIN FRICTION, IGNORE UPPER 3 FT OR ABOVE AN ELEVATION WHERE 10'–0" HORIZONTALLY FROM THE SLOPE OF SOIL WHICH IS GREATER).
ALLOWABLE LATERAL PASSIVE SOIL BEARING PRESSURE: 300 PSF/FT OVER AN EFFECTIVE WIDTH OF 1.5 POLE FOUNDATION DIAMETERS. IGNORE UPPER 3 FT OR ABOVE AN ELEVATION WHERE 10'–0" HORIZONTALLY FROM THE SLOPE OF SOIL WHICH IS GREATER.
A REPRESENTATIVE OF PACIFIC CREST ENGINEERING INC. SHOULD BE AVAILABLE AT THE TIME OF THE FOUNDATION INSTALLATION TO VERIFY THE SOIL DESIGN PARAMETERS AND TO PROVIDE ASSISTANCE IF ANY PROBLEMS ARISE IN FOUNDATION INSTALLATION.
ENCOUNTERING SOIL FORMATIONS THAT WILL REQUIRE SPECIAL DESIGN CONSIDERATIONS OR EXCAVATION PROCEDURES MAY EXIST. POLE FOUNDATIONS MAY NEED TO BE REANALYZED ACCORDING TO THE SOIL CONDITIONS THAT EXIST.
IF ANY DISCREPANCIES OR INCONSISTENCIES ARISE, NOTIFY THE ENGINEER OF SUCH DISCREPANCIES. FOUNDATIONS WILL THEN BE REVISED ACCORDINGLY.
ALL PRECAST BASES AND CONCRETE BACKFILL MUST BEAR ON AND AGAINST FIRM, UNDISTURBED SOIL OR AS APPROVED BY A GEOTECHNICAL ENGINEER.
EXCAVATION OF SOIL MUST BE CLOSE TO SPECIFIED SIZE AND DEBRIS PRIOR TO FOUNDATION INSTALLATION AND PLACEMENT OF CONCRETE. FORMS OR OVEREXCAVATION OF SOILS MAY BE REQUIRED IF CAVING OCCURS. AT SOIL'S CASE APPROVAL BY A GEOTECHNICAL ENGINEER IS REQUIRED.
ALL EXCAVATIONS MUST BE CLOSE TO WATER OR CONCRETE SHALL BE PLACED WITH A TREMIE PIPE IN ACCORDANCE WITH ACI 318 SECTION 26.9.3. CONCRETE PLACED UNDERWATER SHALL BE PROPORTIONED WITH A MINIMUM ULTIMATE STRENGTH OF 1,000 PSI GREATER THAN REQUIRED UNDER CONCRETE BACKFILL BELOW.

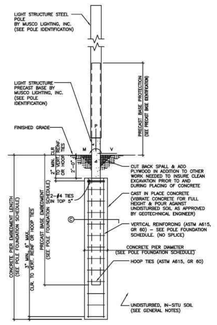
CONCRETE BACKFILL
CONCRETE FOR FOUNDATIONS WITH STEEL REINFORCEMENT SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH AT 28 DAYS OF 3,000 P.S.I. SEE STATEMENT OF SPECIAL INSPECTIONS REQUIRED.
CONCRETE BACKFILL SHALL ATTAIN A MINIMUM STRENGTH OF 2,500 PSI PRIOR TO STEEL POLE ERECTION.
USE TYPE II/V PORTLAND CEMENT OR AS RECOMMENDED BY THE ENGINEER.
MIX IN CONFORMANCE WITH ASTM C–94.
AGGREGATES PER REM C–33 (1" MAX AGG. SIZE) 3/8" MAX AGG. SIZE ACCEPTABLE WHERE PUMP MIXES ARE USED FOR UNREINFORCED CONCRETE BACKFILL; BUT NOT PERMITTED FOR REINFORCED CONCRETE FOUNDATION.
PLACE CONCRETE IMMEDIATELY AFTER COMPLETION OF EXCAVATION AND INSPECTION BY THE GEOTECHNICAL ENGINEER. NO EXCAVATIONS SHALL BE LEFT UNPROTECTED OR OPEN OVERNIGHT.
CONCRETE SHALL BE PLACED IN ONE CONTINUOUS OPERATION (NO CONSTRUCTION JOINT) TO GRADE WITH SPECIAL PLACEMENT WITH A MAXIMUM FREEFALL OF 5 FT AND TO PREVENT CONCRETE FROM STRIKING THE SIDES OF THE EXCAVATION. VIBRATE TOP 5 FT.

MISCELLANEOUS
FIXTURES MUST BE LOCATED TO MAINTAIN 10'–0" MINIMUM HORIZONTAL CLEARANCE FROM ANY OBSTRUCTION.
POLES, FIXTURES, PRECAST BASES, ELECTRICAL ITEMS, PLATFORMS, SPECIFICATIONS, AND INSTALLATION PER MUSCO LIGHTING, INC.

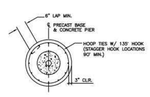
POLE SUPPORT FOUNDATION	MUSCO LIGHTING, INC. 2107 STEWART ROAD MUSCATINE, IOWA 52761 MUSCO No. 200372	DATE 06/28/22
RAMSAY FIELD SOCCER/MULTIPURPOSE WATSONVILLE, CA	KNA STRUCTURAL ENGINEERS 9931 MUIRLANDS BLVD. IRVINE CA, 92618 KNA No. 363.976	SHEET C1 OF 2



A LIGHT POLE FOUNDATION DETAIL
SCALE: NO SCALE



B LIGHT POLE FOUNDATION DETAIL
SCALE: NO SCALE



SECTION C
SCALE: NO SCALE

STATEMENT OF SPECIAL INSPECTIONS*

ITEM	CONTINUOUS/PERIODIC	SCOPE
1. PIER FOUNDATIONS	CONTINUOUS	INSPECT INSTALLATION OF DRILLED PIER FOUNDATIONS. VERIFY DIAMETER, EMBEDMENT DEPTHS AS SCHEDULED, DEPTHS OF FILL, AND BEARING STRATA
2. CONCRETE PLACEMENT	CONTINUOUS	INSPECT PLACEMENT OF CONCRETE FOR PROPER APPLICATION TECHNIQUES. VERIFY THAT CONCRETE CONVEYANCE AND DEPOSITING AVOIDS SEGREGATION OR CONTAMINATION. VERIFY THAT CONCRETE IS PROPERLY CONSOLIDATED.
3. CRETEX PRECAST/ PRESTRESSED CONCRETE BASES	(PCI CERTIFIED)	FABRICATOR EXEMPT.** REFERENCE ICC ESR–3765.
4. STRUCTURAL STEEL	(L.A. CITY APPROVED)	FABRICATOR EXEMPT.** REVIEW CERTIFIED MILL TESTS REPORTS AND IDENTIFICATION MARKINGS.

* The Special Inspector shall be a qualified person who shall demonstrate competence, to the satisfaction of the Building Official, for inspection of the particular type of construction or operation requiring special inspection.
**Special inspections shall not be required when the work is done on the premises of a fabricator registered and approved by the City to perform such work without special inspection.

REGISTERED PROFESSIONAL ENGINEER — No. 4506 Exp. 6-30-23 — STRUCTURAL — STATE OF CALIFORNIA

POLE SUPPORT FOUNDATION	MUSCO LIGHTING, INC. 2107 STEWART ROAD MUSCATINE, IOWA 52761 MUSCO No. 200372	DATE 06/28/22
RAMSAY FIELD SOCCER/MULTIPURPOSE WATSONVILLE, CA	KNA STRUCTURAL ENGINEERS 9931 MUIRLANDS BLVD. IRVINE CA, 92618 KNA No. 363.976	SHEET C2 OF 2

REGISTERED LANDSCAPE ARCHITECT — DEREK MEREK — No. 4148 — Signature — EXPIRATION DATE: DEC. 2022 — STATE OF CALIFORNIA

VERDE DESIGN
LANDSCAPE ARCHITECTURE
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CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

MUSCO SPORTS LIGHTING PLANS

Approved by _____ Date _____
MARIA ESTHER CARRANZA RODRIGUEZ

Designed by VERDE | Drawn by TY/DM | Checked by | Job No. 2106300 | Scale SEE PLANS | SHEET M1.6 X of

VERDE PROJECT NO. 2106300

WATSONVILLE RAMSAY PARK RENAISSANCE PROJECT - 65% CD SUBMITTAL

ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF VERDE DESIGN, INC.

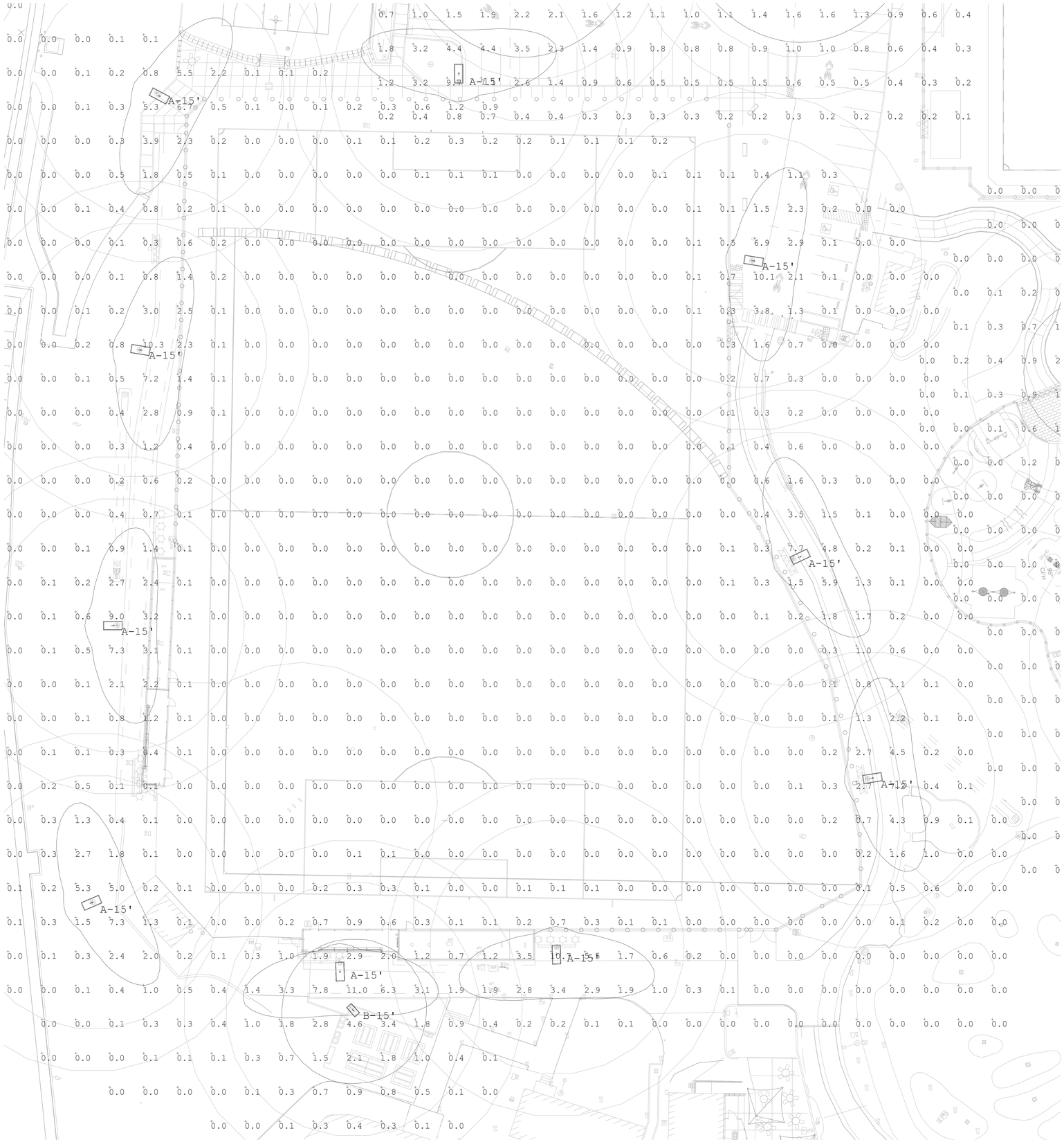
DRAWING NAME: X:\Projects-SC\2021\2106300 – Watsonville Ramsay Park Improvements\cad_MUSCO.dwg
PLOT DATE: 07-01-22 PLOTTED BY: station78

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4

Photometric Plan and Lighting Plan

B

APPENDIX



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DRAWING NAME: Z:\Projects\Year 2021\EK21125_Ramsay Park_City of Watsonville\Photometric\1.dwg
PLOT DATE: 04-25-22 PLOTTED BY: nnguyen

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

0 1 2 3 4

REGISTERED PROFESSIONAL ENGINEER
SAMAH S. FERJANIE
E16890
Exp. 06/30/23
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CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

Approved by _____ Date _____

Designed by AA	Job No. 2106300	SHEET _____
Drawn by WN		of XX
Checked by SF	Scale _____	

VERDE PROJECT NO. 2106300

RAMSAY PARK IMPROVEMENTS, CITY OF WATSONVILLE 30% SUBMITTAL - 12/13/2021



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PLOT DATE: 04-25-22 PLOTTED BY: nnguyen

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4

REGISTERED PROFESSIONAL ENGINEER SAMUEL S. FERNANDEZ E16890 Exp. 06/30/23 ELECTRICAL STATE OF CALIFORNIA

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CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

Approved by ____ Date ____

Designed by AA
Drawn by WN
Checked by SF
Job No. 2106300
Scale ____
SHEET ____ of XX

VERDE PROJECT NO. 2106300

RAMSAY PARK IMPROVEMENTS, CITY OF WATSONVILLE 30% SUBMITTAL - 12/13/2021

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RAMSAY PARK IMPROVEMENTS, CITY OF WATSONVILLE 30% SUBMITTAL - 12/13/2021

REGISTERED PROFESSIONAL ENGINEER
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CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

Approved by _____ Date _____

Designed by AA
Drawn by WN
Checked by SF
Job No. 2106300
Scale _____
SHEET _____ of XX

VERDE PROJECT NO. 2106300

DRAWING NAME: Z:\Projects\Year 2021\EK2112S_Ramsay Park_City of Watsonville\Photometric\3.dwg
PLOT DATE: 04-25-22 PLOTTED BY: nnguyen

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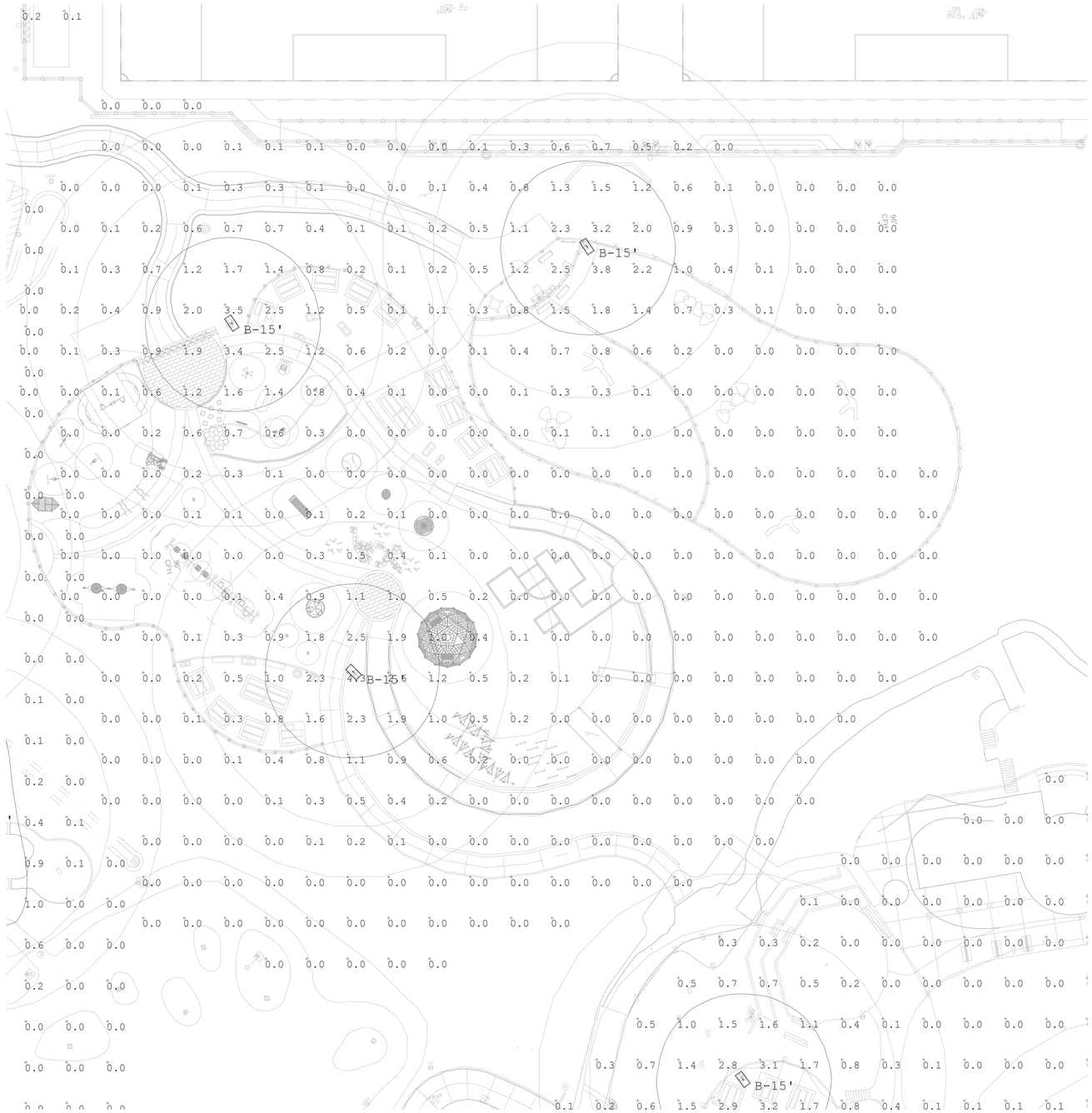

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Drawn by WN	Scale _____	of XX
Checked by SF		

VERDE PROJECT NO. 2106300

DRAWING NAME: Z:\Projects\Year 2021\EK2125_Ramsay Park_City of Watsonville\Photometric\4.dwg
PLOT DATE: 04-25-22 PLOTTED BY: nnguyen

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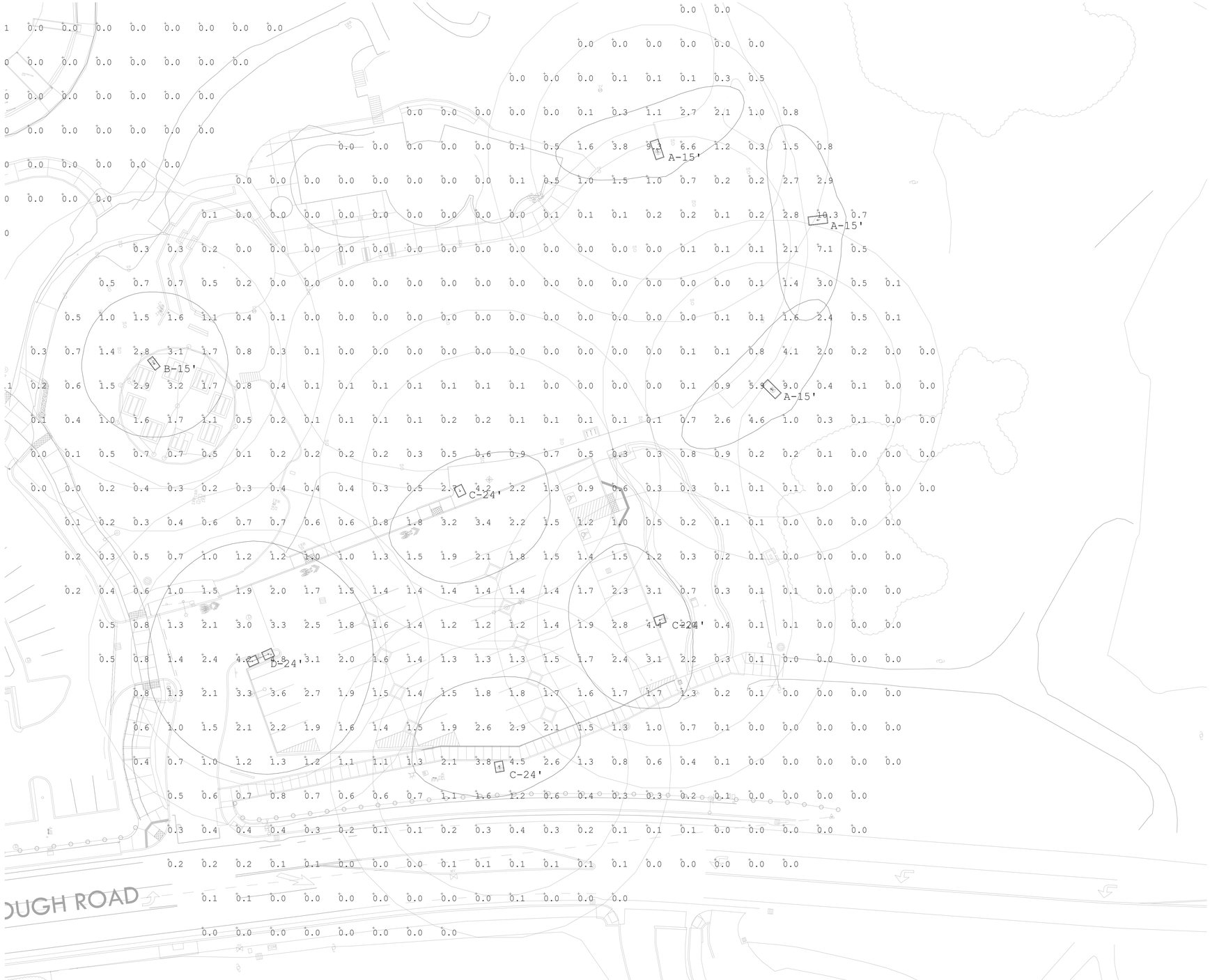

Luminaire Schedule						
Symbol	Qty	Label	Arrangement	Total Lamp Lumens	LLF	Description
→	13	A-15'	SINGLE	N.A.	0.920	P26-48L-500-NW-G2-2 SINGLE HEAD MOUNTED LED WITH 15' POLE
→	5	B-15'	SINGLE	N.A.	1.000	P26-48L-500-NW-G2-5 SINGLE HEAD MOUNTED LED WITH 15' POLE
→	6	C-24'	SINGLE	N.A.	0.920	RFM-130W32LED4K-G2-4 SINGLE HEAD MOUNTED WITH 24' POLE
← →	6	D-24'	BACK-BACK	N.A.	0.920	RFM-130W32LED4K-G2-5 DOUBLE HEAD MOUNTED WITH 24' POLE

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
CalcPts_Parking Lot	Illuminance	Fc	1.71	9.7	0.0	N.A.	N.A.
CalcPts_Parking Lot_Harkin RD	Illuminance	Fc	0.75	10.3	0.0	N.A.	N.A.
CalcPts_Parking Lot_Soccer Field	Illuminance	Fc	0.41	4.7	0.0	N.A.	N.A.
CalcPts_Pedestrian Baseball	Illuminance	Fc	0.45	11.0	0.0	N.A.	N.A.
CalcPts_Security Lighting	Illuminance	Fc	0.32	4.3	0.0	N.A.	N.A.

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Designed by AA
Drawn by WN
Checked by SF
Job No. 2106300
Scale _____
SHEET _____ of XX

VERDE PROJECT NO. 2106300

RAMSAY PARK IMPROVEMENTS, CITY OF WATSONVILLE 30% SUBMITTAL - 12/13/2021

DRAWING NAME: C:\Users\vnguyen\appdata\local\temp\AcPublish_25204\5.dwg
PLOT DATE: 04-25-22 PLOTTED BY: vnguyen

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES
0 1 2 3 4

Ramsay Field Soccer/Multipurpose

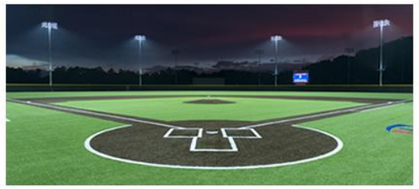
Watsonville,CA

Lighting System

Pole / Fixture Summary

Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
A1	60'	60'	3	TLC-LED-1200	3.51 kW	D
		60'	1	TLC-LED-900	0.89 kW	D
		16'	1	TLC-BT-575	0.58 kW	D
		25'	1	CREE OSQ	0.10 kW	E
A2	60'	60'	3	TLC-LED-1200	3.51 kW	C
		16'	1	TLC-BT-575	0.58 kW	C
		25'	1	CREE OSQ	0.10 kW	E
B1	60'	60'	4	TLC-LED-1200	4.68 kW	D
		60'	1	TLC-LED-1500	1.43 kW	D
		60'	1	TLC-LED-900	0.89 kW	D
		16'	1	TLC-BT-575	0.58 kW	D
		25'	1	CREE OSQ	0.10 kW	E
B2	60'	60'	4	TLC-LED-1200	4.68 kW	C
		16'	1	TLC-BT-575	0.58 kW	C
		25'	1	CREE OSQ	0.10 kW	E
C1	60'	60'	3	TLC-LED-1200	3.51 kW	D
		60'	1	TLC-LED-1500	1.43 kW	D
		16'	1	TLC-BT-575	0.58 kW	D
		25'	1	CREE OSQ	0.10 kW	E
C2	60'	60'	3	TLC-LED-1200	3.51 kW	D
		60'	2	TLC-LED-1500	2.86 kW	D
		16'	1	TLC-BT-575	0.58 kW	D
		25'	1	CREE OSQ	0.10 kW	E
C3	70'	70'	2	TLC-LED-1200	2.34 kW	D
		70'	3	TLC-LED-1500	4.29 kW	D
		16'	1	TLC-BT-575	0.58 kW	D
		25'	1	CREE OSQ	0.10 kW	E
S1	80'	80'	5	TLC-LED-1500	7.15 kW	A
		25'	1	CREE OSQ	0.10 kW	E
S2	70'	70'	4	TLC-LED-1500	5.72 kW	A
		70'	1	TLC-LED-900	0.89 kW	A
		25'	1	CREE OSQ	0.10 kW	E
S3	90'	90'	4	TLC-LED-1500	5.72 kW	B
		90'	3	TLC-LED-1500	4.29 kW	A
		90'	2	TLC-LED-900	1.78 kW	A
		90'	1	TLC-LED-900	0.89 kW	B
		25'	1	CREE OSQ	0.10 kW	E
S4	90'	90'	4	TLC-LED-1500	5.72 kW	B
		90'	4	TLC-LED-1500	5.72 kW	A
		90'	1	TLC-LED-900	0.89 kW	B
		90'	1	TLC-LED-900	0.89 kW	A
		25'	1	CREE OSQ	0.10 kW	E
S5	70'	70'	4	TLC-LED-1500	5.72 kW	B
		70'	1	TLC-LED-900	0.89 kW	B
		25'	1	CREE OSQ	0.10 kW	E
S6	70'	70'	5	TLC-LED-1500	7.15 kW	B
		25'	1	CREE OSQ	0.10 kW	E
S8	70'	70'	4	TLC-LED-1200	4.68 kW	D
		70'	1	TLC-LED-1500	1.43 kW	D
		16'	1	TLC-BT-575	0.58 kW	D
		25'	1	CREE OSQ	0.10 kW	E
14			***98***		***103.12 kW***	

From Hometown to Professional









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Ramsay Field Soccer/Multipurpose

Watsonville,CA

Circuit Summary

Circuit	Description	Load	Fixture Qty
A	Soccer 1	26.44 kW	20
B	Soccer 2	26.98 kW	20
C	Softball Only	9.34 kW	9
D	Soccer & Softball	38.9 kW	35
E	Pathway	1.46 kW	14

Fixture Type Summary

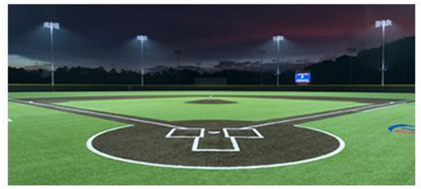
Type	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-LED-1200	LED 5700K - 75 CRI	1170W	136,000	>120,000	>120,000	>120,000	26
TLC-LED-1500	LED 5700K - 75 CRI	1430W	160,000	>120,000	>120,000	>120,000	41
TLC-LED-900	LED 5700K - 75 CRI	890W	89,600	>120,000	>120,000	>120,000	9
TLC-BT-575	LED 5700K - 75 CRI	575W	52,000	>120,000	>120,000	>120,000	8
CREE OSQ	LED 5700K - 70 CRI	104W	15,939	--	--	--	14

Light Level Summary

Calculation Grid Summary

Grid Name	Calculation Metric	Illumination					Circuits	Fixture Qty
		Ave	Min	Max	Max/Min	Ave/Min		
Blanket Grid	Horizontal Illuminance	1.49	0	57	0.00		A,B,C,D,E	98
Multi-Soccer	Horizontal Illuminance	31.2	17	43	2.48	1.84	D	35
North Spill Line	Horizontal	0.10	0	0.51	0.00		A,B,C,D	84
North Spill Line	Max Candela (by Fixture)	3624	1.65	11278	6847.22	2196.54	A,B,C,D	84
North Spill Line	Max Vertical Illuminance Metric	0.18	0	0.89	0.00		A,B,C,D	84
Pathway Area	Horizontal Illuminance	0.53	0	5	979.68		E	14
Soccer 1	Horizontal Illuminance	30.3	23	38	1.65	1.32	A	20
Soccer 2	Horizontal Illuminance	30.7	23	43	1.88	1.33	B	20
Soccer 3	Horizontal Illuminance	32.1	25	45	1.80	1.29	A,B	40
Softball (Infield)	Horizontal Illuminance	52.3	38	67	1.77	1.38	C,D	44
Softball (Outfield)	Horizontal Illuminance	38.1	25	58	2.32	1.52	C,D	44
South Spill Line	Horizontal	0	0	0	0.00		A,B,C,D	84
South Spill Line	Max Candela (by Fixture)	46.5	0	271	0.00		A,B,C,D	84
South Spill Line	Max Vertical Illuminance Metric	0	0	0	0.00		A,B,C,D	84
West Spill Line	Horizontal	0.03	0	0.18	0.00		A,B,C,D	84
West Spill Line	Max Candela (by Fixture)	2257	1.39	9716	7010.12	1624.03	A,B,C,D	84
West Spill Line	Max Vertical Illuminance Metric	0.08	0	0.47	0.00		A,B,C,D	84

From Hometown to Professional









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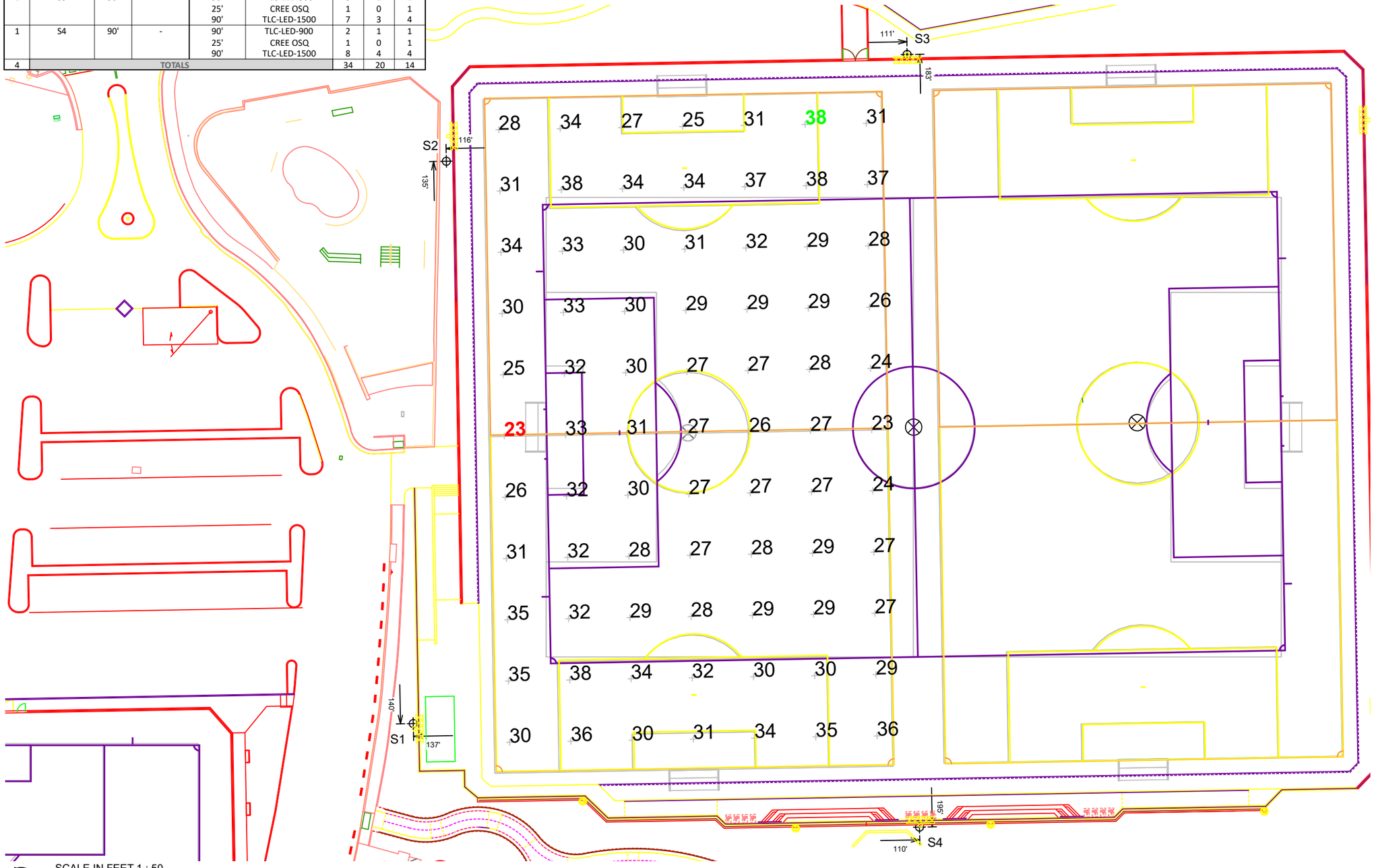
Ramsay Field Soccer/Multipurpose

Watsonville,CA

EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
1	S1	80'	-	25'	CREE OSQ	1	0	1
				80'	TLC-LED-1500	5	5	0
1	S2	70'	-	70'	TLC-LED-900	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1500	4	4	0
1	S3	90'	-	90'	TLC-LED-900	3	2	1
				25'	CREE OSQ	1	0	1
				90'	TLC-LED-1500	7	3	4
1	S4	90'	-	90'	TLC-LED-900	2	1	1
				25'	CREE OSQ	1	0	1
				90'	TLC-LED-1500	8	4	4
4	TOTALS					34	20	14



SCALE IN FEET 1 : 50

0' 50' 100'

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

GRID SUMMARY

Name:	**Soccer 1**
Size:	330' x 195'
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

	Entire Grid
Guaranteed Average:	**30**
Scan Average:	30.32
Maximum:	38
Minimum:	23
Avg / Min:	1.31
Guaranteed Max / Min:	**2.5**
Max / Min:	1.65
UG (adjacent pts):	1.42
CU:	0.74
No. of Points:	77

LUMINAIRE INFORMATION

Applied Circuits:	A
No. of Luminaires:	**20**
Total Load:	26.44 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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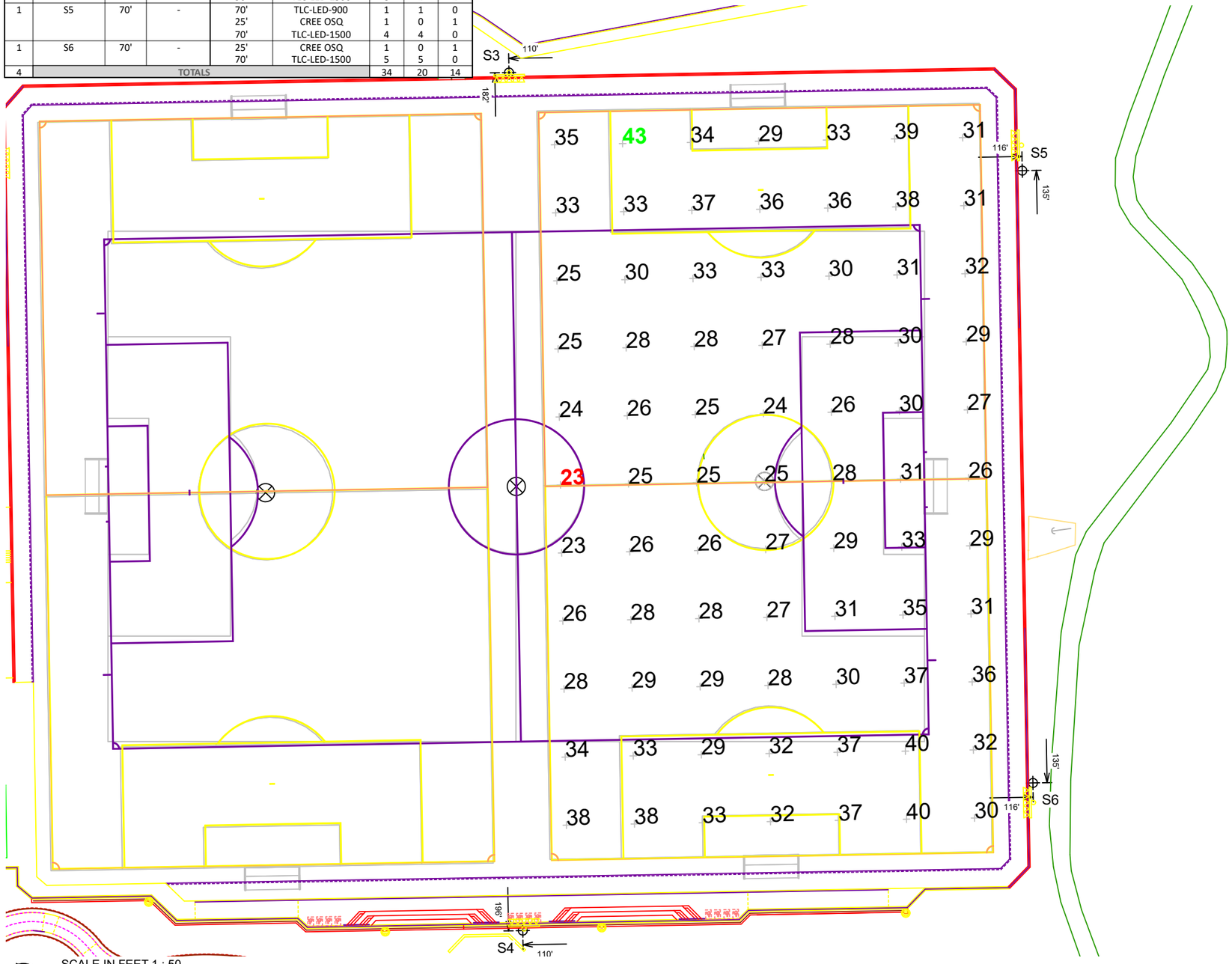
Ramsay Field Soccer/Multipurpose

Watsonville,CA

EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
1	S3	90'	-	90'	TLC-LED-900	3	1	2
				25'	CREE OSQ	1	0	1
				90'	TLC-LED-1500	7	4	3
1	S4	90'	-	90'	TLC-LED-900	2	1	1
				25'	CREE OSQ	1	0	1
				90'	TLC-LED-1500	8	4	4
1	S5	70'	-	70'	TLC-LED-900	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1500	4	4	0
1	S6	70'	-	25'	CREE OSQ	1	0	1
				70'	TLC-LED-1500	5	5	0
4	TOTALS					34	20	14



GRID SUMMARY

Name:	**Soccer 2**
Size:	330' x 195'
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

	Entire Grid
Guaranteed Average:	**30**
Scan Average:	30.68
Maximum:	43
Minimum:	23
Avg / Min:	1.35
Guaranteed Max / Min:	**2.5**
Max / Min:	1.88
UG (adjacent pts):	1.36
CU:	0.73
No. of Points:	77

LUMINAIRE INFORMATION

Applied Circuits:	B
No. of Luminaires:	**20**
Total Load:	26.98 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

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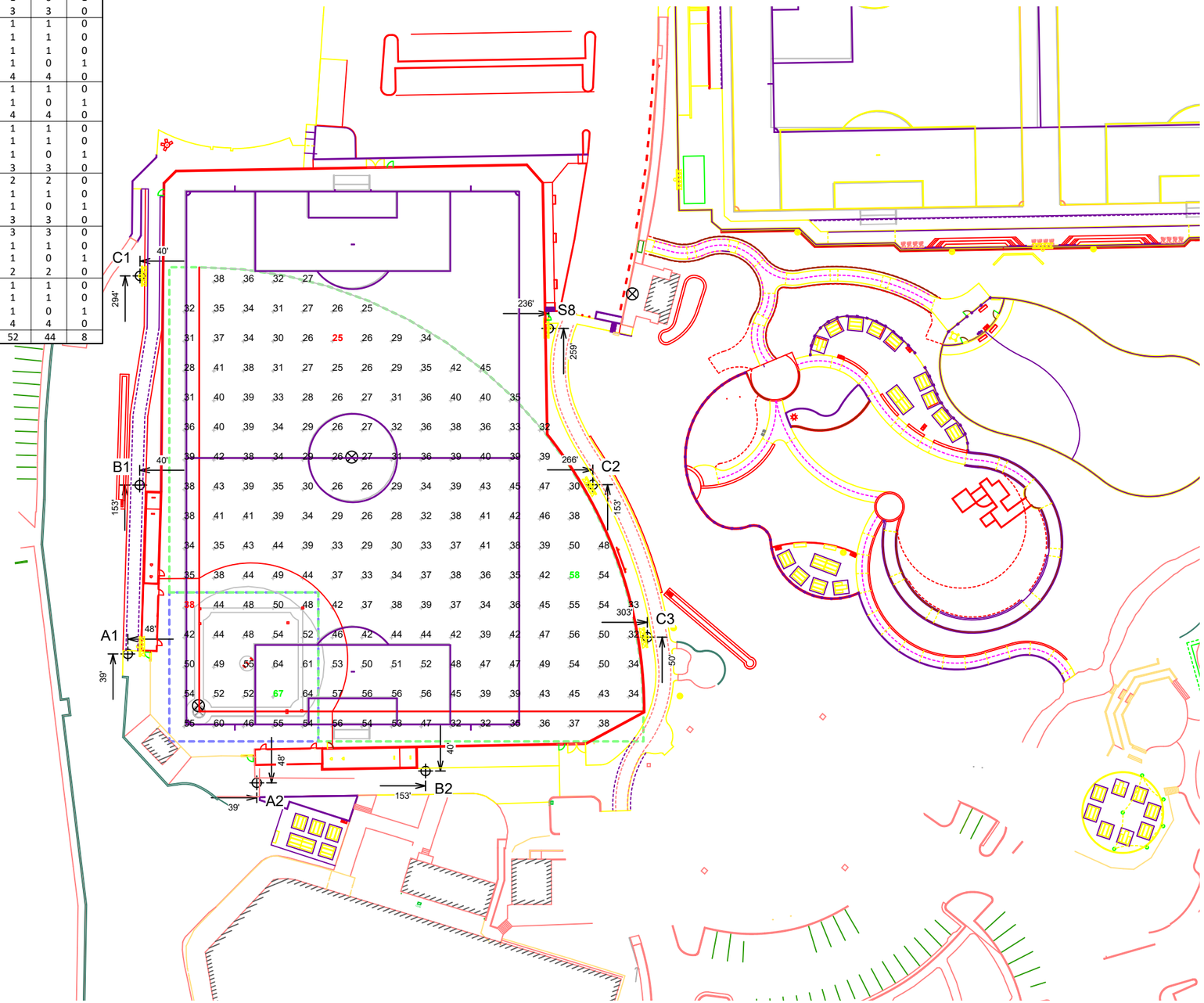
Ramsay Field Soccer/Multipurpose

Watsonville,CA

EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
1	A1	60'	-	60'	TLC-LED-900	1	1	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	A2	60'	-	15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	B1	60'	-	60'	TLC-LED-1500	1	1	0
				60'	TLC-LED-900	1	1	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	4	4	0
1	B2	60'	-	15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	4	4	0
1	C1	60'	0'	60'	TLC-LED-1500	1	1	0
				15.48'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	C2	60'	-	60'	TLC-LED-1500	2	2	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	C3	70'	-	70'	TLC-LED-1500	3	3	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1200	2	2	0
1	S8	70'	0'	70'	TLC-LED-1500	1	1	0
				15.48'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1200	4	4	0
8	TOTALS					52	44	8



GRID SUMMARY

Name:	**Softball**
Size:	300'/300'/300' - basepath 70'
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

	Infield	Outfield
Guaranteed Average:	**50**	**30**
Scan Average:	52.25	38.05
Maximum:	67	58
Minimum:	38	25
Avg / Min:	1.37	1.51
Guaranteed Max / Min:	**2**	**2.5**
Max / Min:	1.77	2.32
UG (adjacent pts):	1.30	1.64
CU:	0.63	
No. of Points:	25	181

LUMINAIRE INFORMATION

Applied Circuits:	C, D
No. of Luminaires:	**44**
Total Load:	48.24 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

SCALE IN FEET 1 : 80

0' 80' 160'

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

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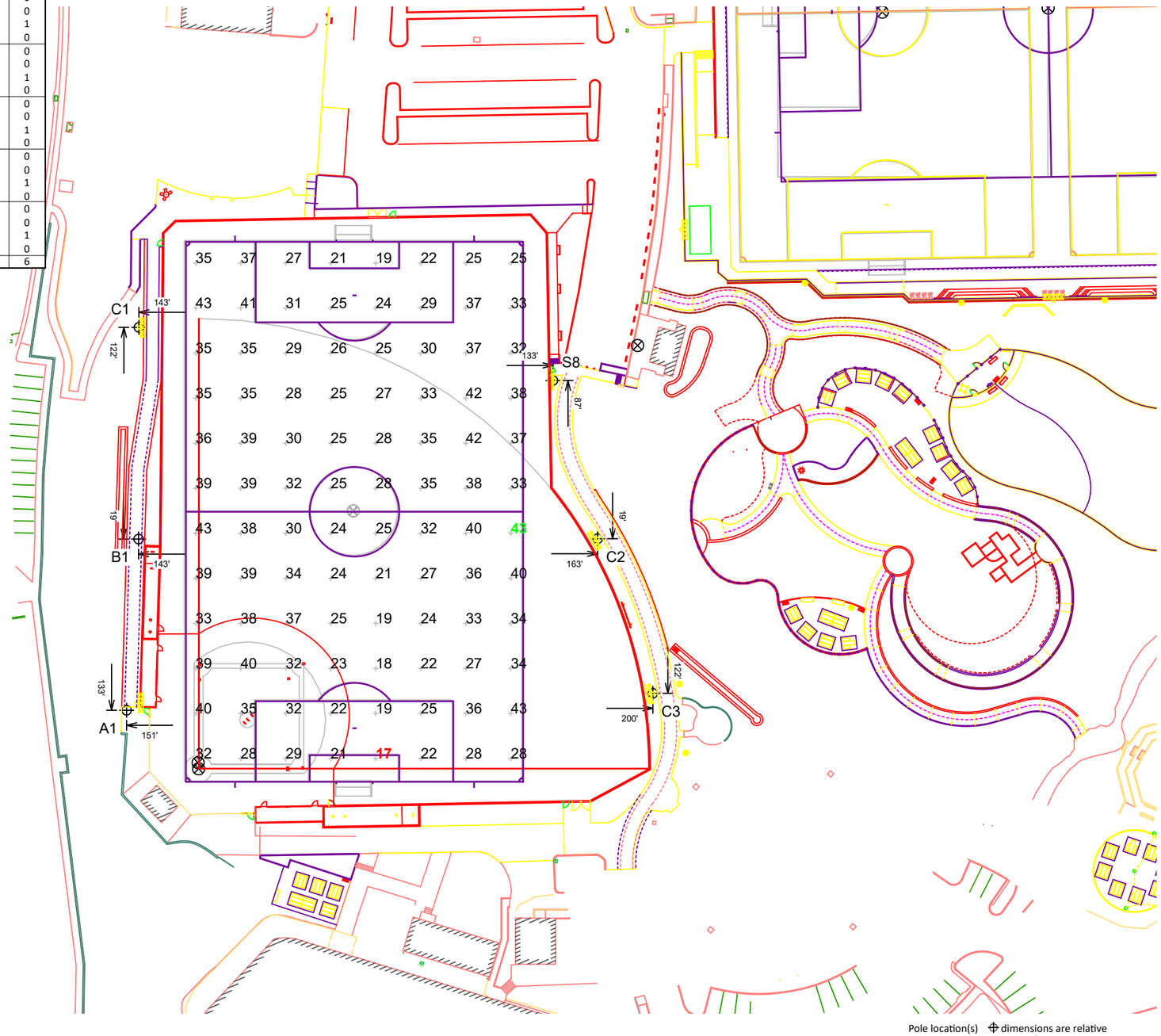
Ramsay Field Soccer/Multipurpose

Watsonville,CA

EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
1	A1	60'	0'	60'	TLC-LED-900	1	1	0
				15.52'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	B1	60'	0'	60'	TLC-LED-1500	1	1	0
				60'	TLC-LED-900	1	1	0
				15.52'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	4	4	0
1	C1	60'	-	60'	TLC-LED-1500	1	1	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	C2	60'	0'	60'	TLC-LED-1500	2	2	0
				15.52'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	C3	70'	0'	70'	TLC-LED-1500	3	3	0
				15.52'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1200	2	2	0
1	S8	70'	-	70'	TLC-LED-1500	1	1	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1200	4	4	0
6	TOTALS					41	35	6



Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

SCALE IN FEET 1 : 80

0' 80' 160'

GRID SUMMARY

Name:	**Multi-Soccer**
Size:	360' x 225'
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

	Entire Grid
Guaranteed Average:	**30**
Scan Average:	31.20
Maximum:	43
Minimum:	17
Avg / Min:	1.80
Max / Min:	**2.48**
UG (adjacent pts):	1.51
CU:	0.64
No. of Points:	96

LUMINAIRE INFORMATION

Applied Circuits:	D
No. of Luminaires:	**35**
Total Load:	38.9 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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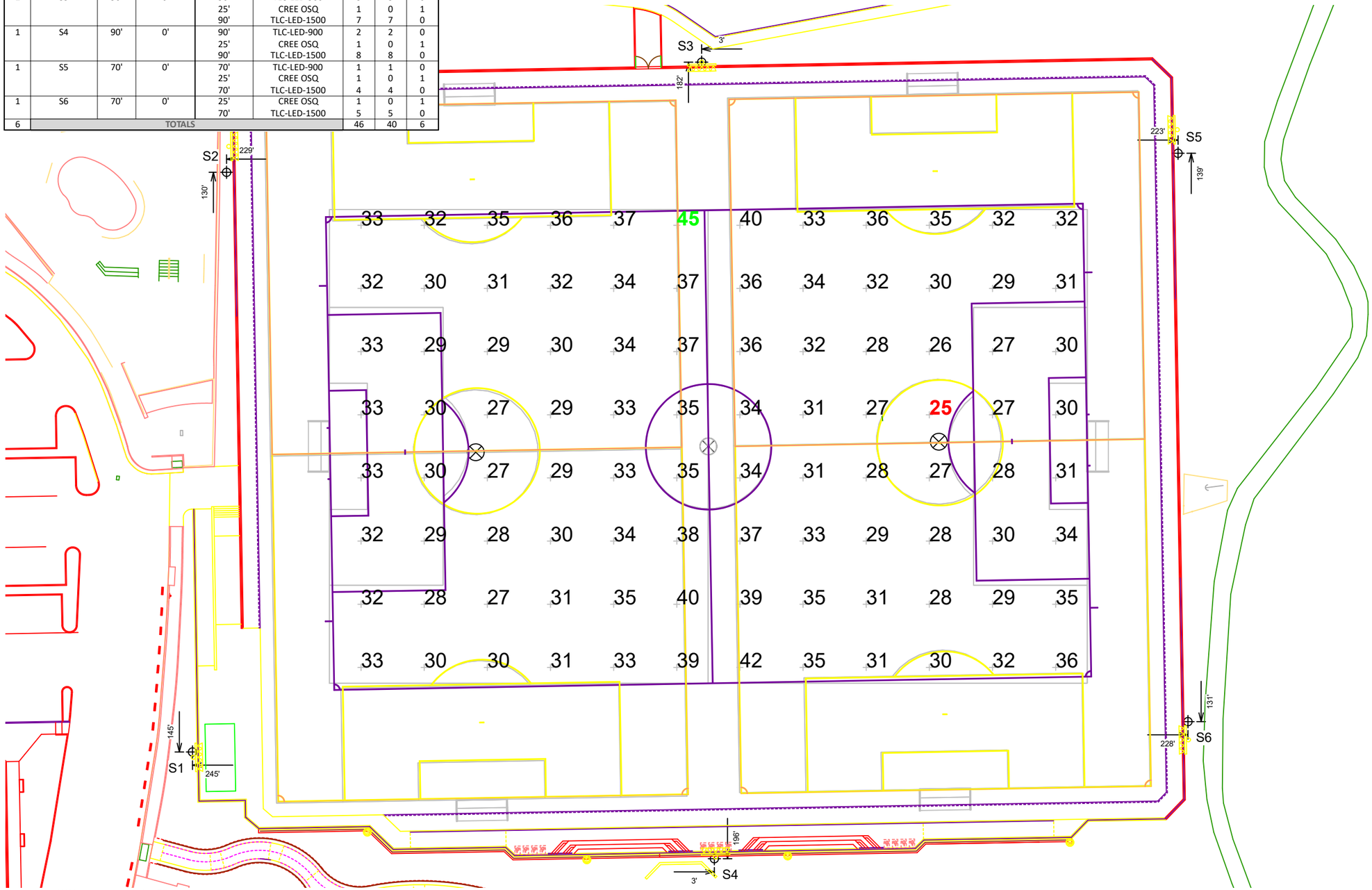
EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
1	S1	80'	0'	25'	CREE OSQ	1	0	1
				80'	TLC-LED-1500	5	5	0
1	S2	70'	0'	70'	TLC-LED-900	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1500	4	4	0
1	S3	90'	0'	90'	TLC-LED-900	3	3	0
				25'	CREE OSQ	1	0	1
				90'	TLC-LED-1500	7	7	0
1	S4	90'	0'	90'	TLC-LED-900	2	2	0
				25'	CREE OSQ	1	0	1
				90'	TLC-LED-1500	8	8	0
1	S5	70'	0'	70'	TLC-LED-900	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1500	4	4	0
1	S6	70'	0'	25'	CREE OSQ	1	0	1
				70'	TLC-LED-1500	5	5	0
6	TOTALS					46	40	6



SCALE IN FEET 1 : 50

0' 50' 100'

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

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Ramsay Field Soccer/Multipurpose

Watsonville,CA

GRID SUMMARY

Name:	**Soccer 3**
Size:	360' x 225'
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

	Entire Grid
Scan Average:	**32.13**
Maximum:	45
Minimum:	25
Avg / Min:	1.28
Max / Min:	**1.80**
UG (adjacent pts):	1.22
CU:	0.48
No. of Points:	96

LUMINAIRE INFORMATION

Applied Circuits:	A, B
No. of Luminaires:	**40**
Total Load:	53.42 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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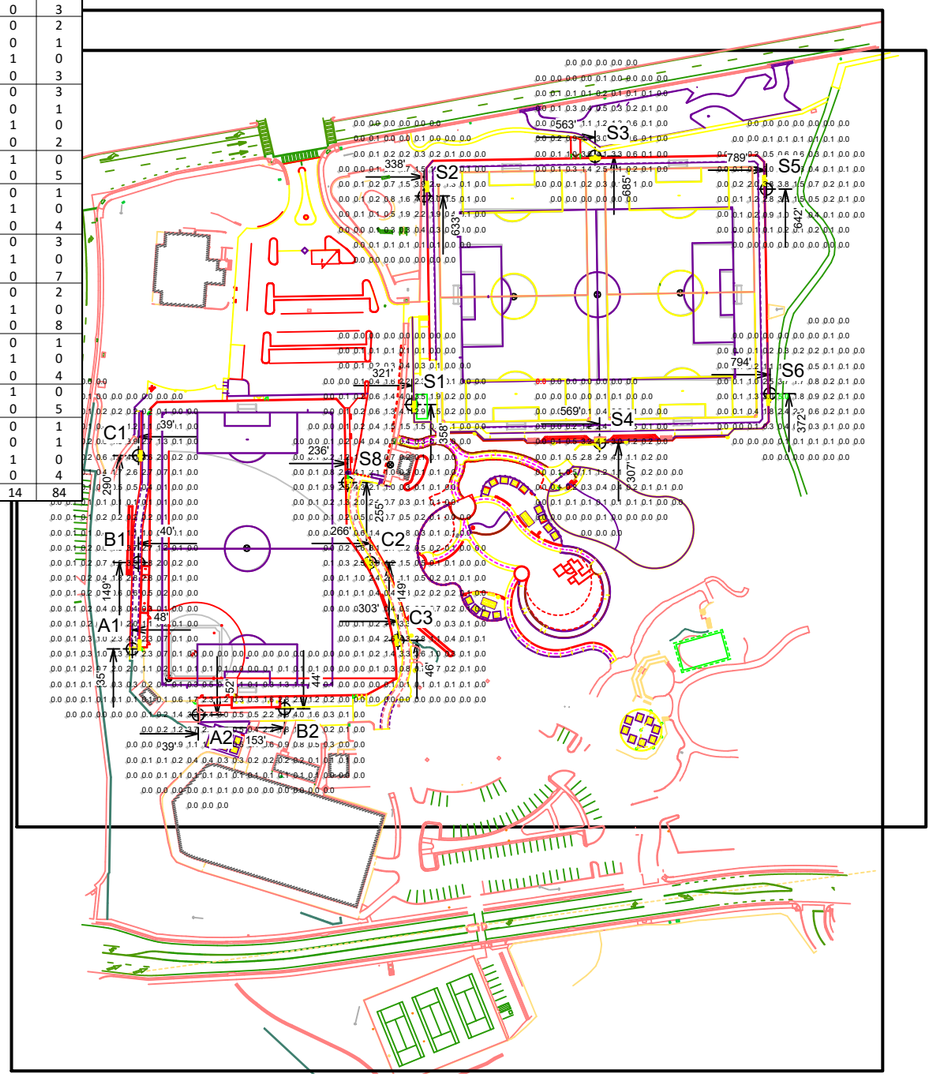
EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
1	A1	60'	.08'	60.08'	TLC-LED-900	1	0	1
				15.58'	TLC-BT-575	1	0	1
				25.08'	CREE OSQ	1	1	0
				60.08'	TLC-LED-1200	3	0	3
1	A2	60'	.08'	15.58'	TLC-BT-575	1	0	1
				25.08'	CREE OSQ	1	1	0
				60.08'	TLC-LED-1200	3	0	3
1	B1	60'	.08'	60.08'	TLC-LED-1500	1	0	1
				60.08'	TLC-LED-900	1	0	1
				15.58'	TLC-BT-575	1	0	1
				25.08'	CREE OSQ	1	1	0
				60.08'	TLC-LED-1200	4	0	4
1	B2	60'	.08'	15.58'	TLC-BT-575	1	0	1
				25.08'	CREE OSQ	1	1	0
				60.08'	TLC-LED-1200	4	0	4
1	C1	60'	.06'	60.06'	TLC-LED-1500	1	0	1
				15.56'	TLC-BT-575	1	0	1
				25.06'	CREE OSQ	1	1	0
				60.06'	TLC-LED-1200	3	0	3
1	C2	60'	.08'	60.08'	TLC-LED-1500	2	0	2
				15.58'	TLC-BT-575	1	0	1
				25.08'	CREE OSQ	1	1	0
				60.08'	TLC-LED-1200	3	0	3
1	C3	70'	.08'	70.08'	TLC-LED-1500	3	0	3
				15.58'	TLC-BT-575	1	0	1
				25.08'	CREE OSQ	1	1	0
				70.08'	TLC-LED-1200	2	0	2
1	S1	80'	.08'	25.08'	CREE OSQ	1	1	0
				80.08'	TLC-LED-1500	5	0	5
1	S2	70'	.08'	70.08'	TLC-LED-900	1	0	1
				25.08'	CREE OSQ	1	1	0
				70.08'	TLC-LED-1500	4	0	4
1	S3	90'	.08'	90.08'	TLC-LED-900	3	0	3
				25.08'	CREE OSQ	1	1	0
				90.08'	TLC-LED-1500	7	0	7
1	S4	90'	.08'	90.08'	TLC-LED-900	2	0	2
				25.08'	CREE OSQ	1	1	0
				90.08'	TLC-LED-1500	8	0	8
1	S5	70'	.08'	70.08'	TLC-LED-900	1	0	1
				25.08'	CREE OSQ	1	1	0
				70.08'	TLC-LED-1500	4	0	4
1	S6	70'	.08'	25.08'	CREE OSQ	1	1	0
				70.08'	TLC-LED-1500	5	0	5
1	S8	70'	.06'	70.06'	TLC-LED-1500	1	0	1
				15.56'	TLC-BT-575	1	0	1
				25.06'	CREE OSQ	1	1	0
				70.06'	TLC-LED-1200	4	0	4
14	TOTALS					98	14	84



SCALE IN FEET 1 : 200

0' 200' 400'

ENGINEERED DESIGN By: H.Sabers · File #172899Dr · 29-Apr-22

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

Ramsay Field Soccer/Multipurpose

Watsonville,CA

GRID SUMMARY

Name:	**Pathway Area**
Size:	1200' x 1025'
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

	Entire Grid
Scan Average:	**0.53**
Maximum:	5
Minimum:	0
Avg / Min:	104.37
Max / Min:	**979.68**
UG (adjacent pts):	12.75
CU:	0.97
No. of Points:	1040

LUMINAIRE INFORMATION

Applied Circuits:	E
No. of Luminaires:	**14**
Total Load:	1.46 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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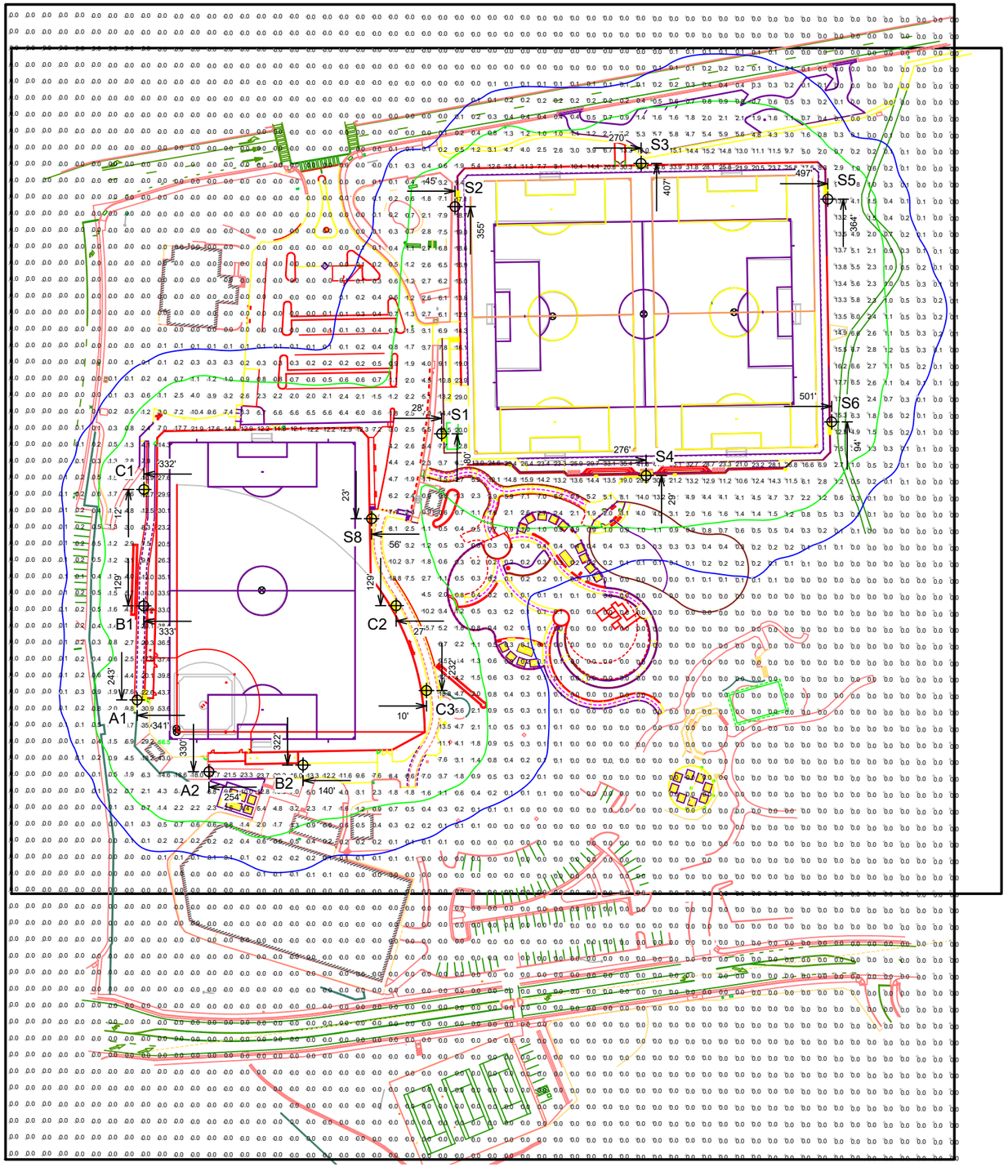

SCALE IN FEET 1 : 150

0' 150' 300'

ENGINEERED DESIGN By: H.Sabers · File #172899Dr · 29-Apr-22

Ramsay Field Soccer/Multipurpose

Watsonville,CA

GRID SUMMARY

Name:	**Blanket Grid**
Size:	1150' x 1400'
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

	Entire Grid
Scan Average:	**1.49**
Maximum:	57
Minimum:	0
Avg / Min:	-
Max / Min:	**-**
UG (adjacent pts):	7.57
CU:	0.96
No. of Points:	3396

LUMINAIRE INFORMATION

Applied Circuits:	A, B, C, D, E
No. of Luminaires:	**98**
Total Load:	103.12 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

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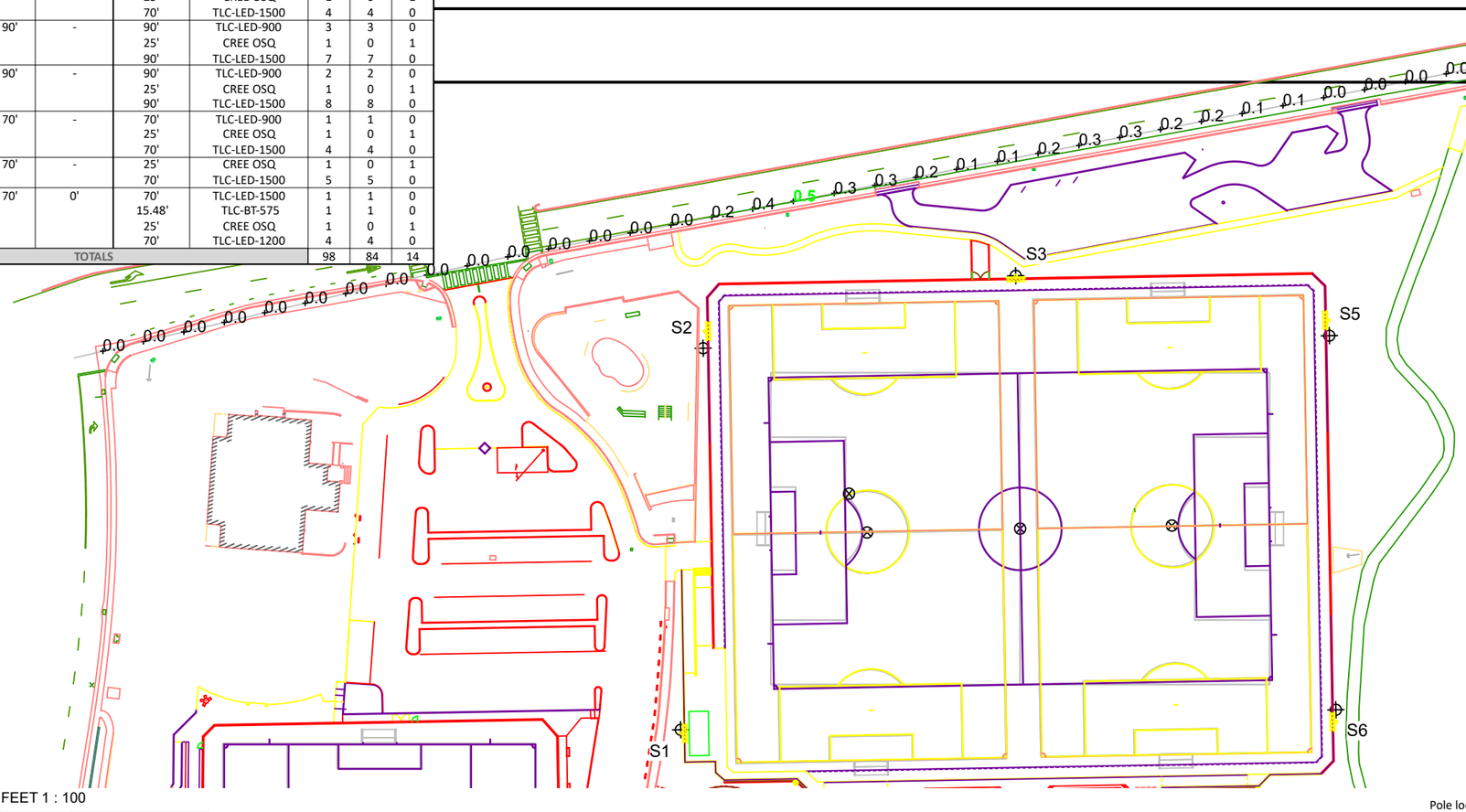
EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
1	A1	60'	-	60'	TLC-LED-900	1	1	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	A2	60'	-	15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	B1	60'	-	60'	TLC-LED-1500	1	1	0
				60'	TLC-LED-900	1	1	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	4	4	0
1	B2	60'	-	15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	4	4	0
1	C1	60'	0'	60'	TLC-LED-1500	1	1	0
				15.48'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	C2	60'	-	60'	TLC-LED-1500	2	2	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	C3	70'	-	70'	TLC-LED-1500	3	3	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1200	2	2	0
1	S1	80'	-	25'	CREE OSQ	1	0	1
				80'	TLC-LED-1500	5	5	0
1	S2	70'	-	70'	TLC-LED-900	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1500	4	4	0
1	S3	90'	-	90'	TLC-LED-900	3	3	0
				25'	CREE OSQ	1	0	1
				90'	TLC-LED-1500	7	7	0
1	S4	90'	-	90'	TLC-LED-900	2	2	0
				25'	CREE OSQ	1	0	1
				90'	TLC-LED-1500	8	8	0
1	S5	70'	-	70'	TLC-LED-900	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1500	4	4	0
1	S6	70'	-	25'	CREE OSQ	1	0	1
				70'	TLC-LED-1500	5	5	0
1	S8	70'	0'	70'	TLC-LED-1500	1	1	0
				15.48'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1200	4	4	0
14	TOTALS					98	84	14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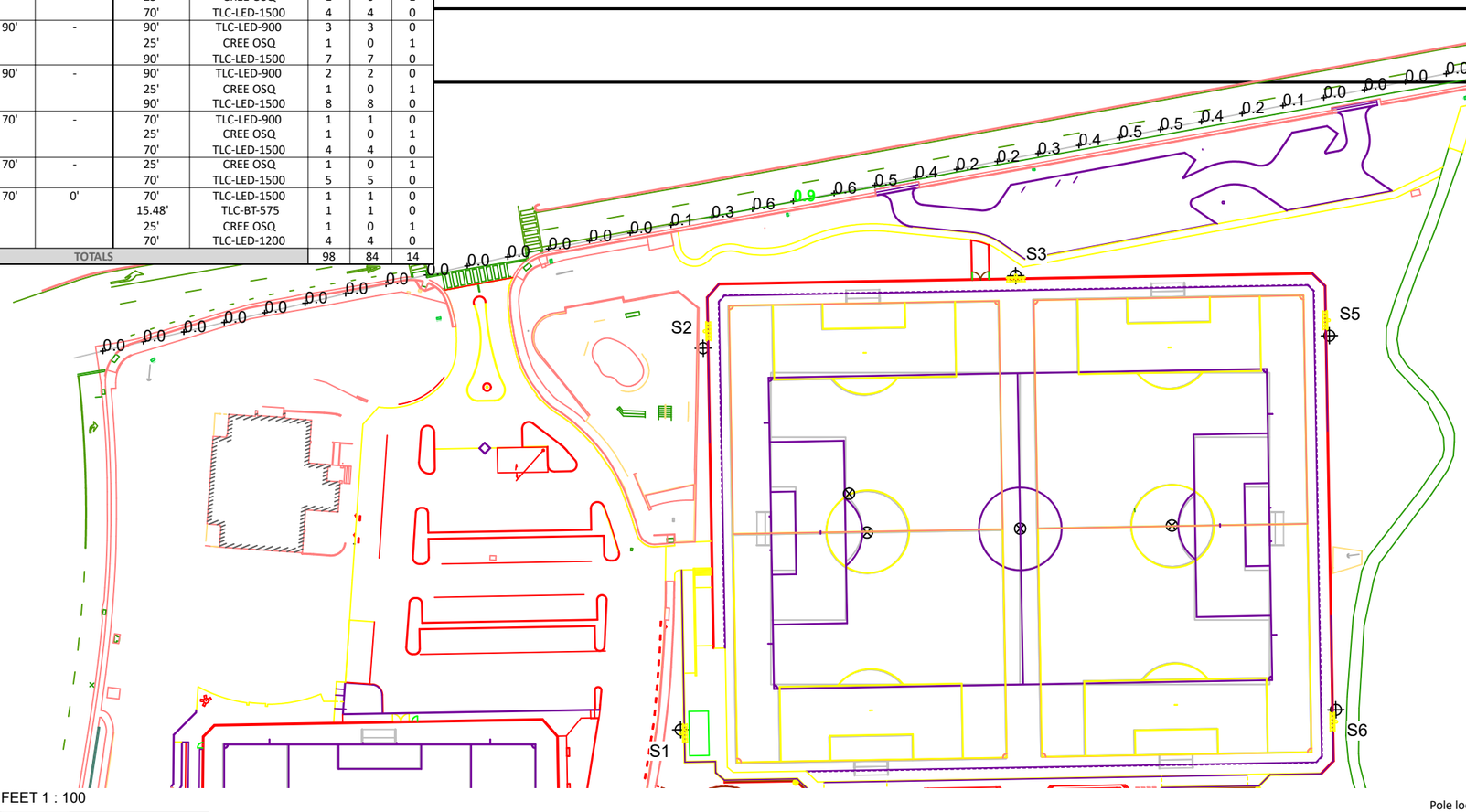
0.0 0.0 0.0 0.0 0.0

EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
1	A1	60'	-	60'	TLC-LED-900	1	1	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	A2	60'	-	15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	B1	60'	-	60'	TLC-LED-1500	1	1	0
				60'	TLC-LED-900	1	1	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	4	4	0
1	B2	60'	-	15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	4	4	0
1	C1	60'	0'	60'	TLC-LED-1500	1	1	0
				15.48'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	C2	60'	-	60'	TLC-LED-1500	2	2	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	C3	70'	-	70'	TLC-LED-1500	3	3	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1200	2	2	0
1	S1	80'	-	25'	CREE OSQ	1	0	1
				80'	TLC-LED-1500	5	5	0
1	S2	70'	-	70'	TLC-LED-900	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1500	4	4	0
1	S3	90'	-	90'	TLC-LED-900	3	3	0
				25'	CREE OSQ	1	0	1
				90'	TLC-LED-1500	7	7	0
1	S4	90'	-	90'	TLC-LED-900	2	2	0
				25'	CREE OSQ	1	0	1
				90'	TLC-LED-1500	8	8	0
1	S5	70'	-	70'	TLC-LED-900	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1500	4	4	0
1	S6	70'	-	25'	CREE OSQ	1	0	1
				70'	TLC-LED-1500	5	5	0
1	S8	70'	0'	70'	TLC-LED-1500	1	1	0
				15.48'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1200	4	4	0
14	TOTALS					98	84	14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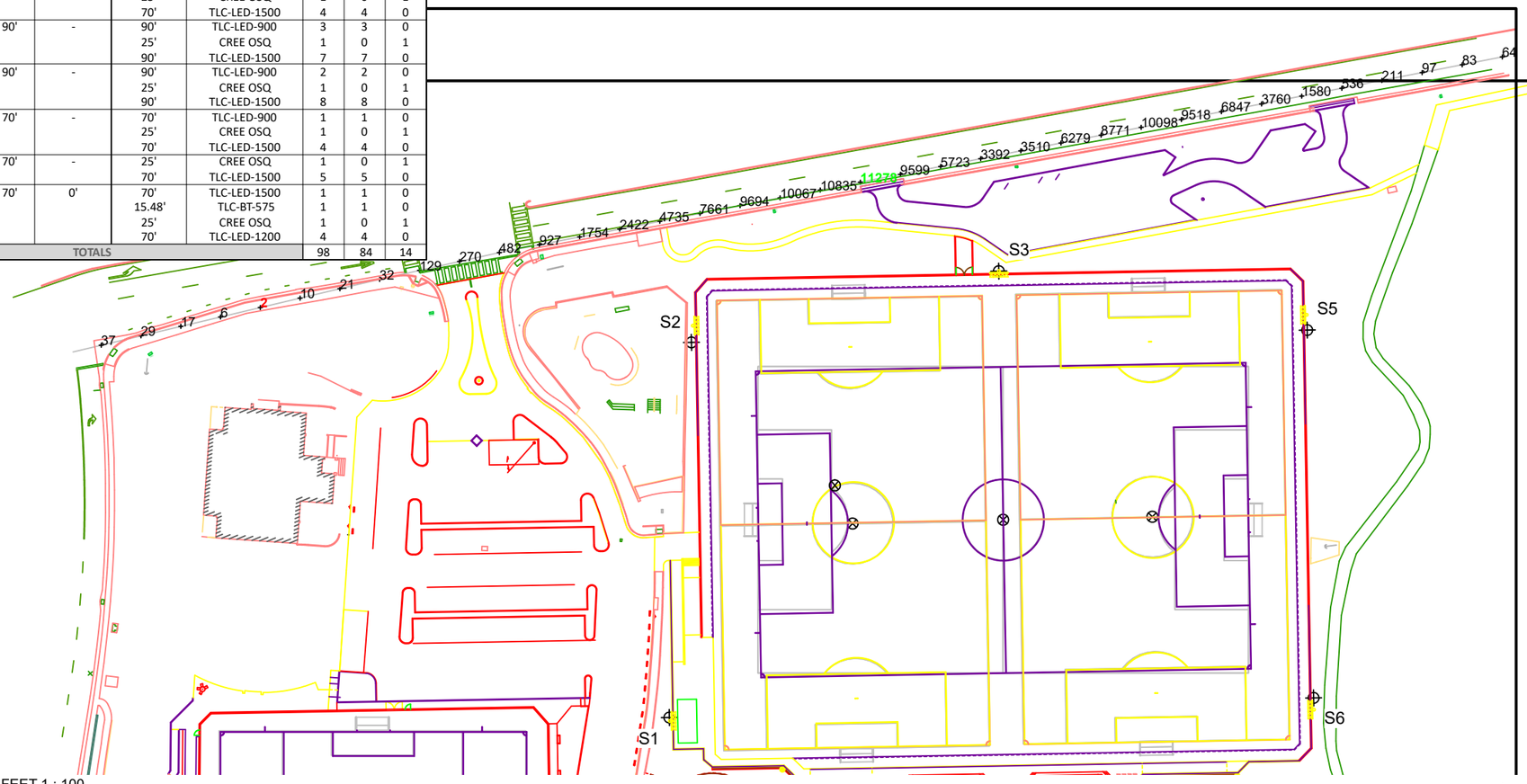
0.0 0.0 0.0 0.0 0.0

EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
1	A1	60'	-	60'	TLC-LED-900	1	1	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	A2	60'	-	15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	B1	60'	-	60'	TLC-LED-1500	1	1	0
				60'	TLC-LED-900	1	1	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	4	4	0
1	B2	60'	-	15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	4	4	0
1	C1	60'	0'	60'	TLC-LED-1500	1	1	0
				15.48'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	C2	60'	-	60'	TLC-LED-1500	2	2	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	C3	70'	-	70'	TLC-LED-1500	3	3	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1200	2	2	0
1	S1	80'	-	25'	CREE OSQ	1	0	1
				80'	TLC-LED-1500	5	5	0
1	S2	70'	-	70'	TLC-LED-900	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1500	4	4	0
1	S3	90'	-	90'	TLC-LED-900	3	3	0
				25'	CREE OSQ	1	0	1
				90'	TLC-LED-1500	7	7	0
1	S4	90'	-	90'	TLC-LED-900	2	2	0
				25'	CREE OSQ	1	0	1
				90'	TLC-LED-1500	8	8	0
1	S5	70'	-	70'	TLC-LED-900	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1500	4	4	0
1	S6	70'	-	25'	CREE OSQ	1	0	1
				70'	TLC-LED-1500	5	5	0
1	S8	70'	0'	70'	TLC-LED-1500	1	1	0
				15.48'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1200	4	4	0
14	TOTALS					98	84	14



SCALE IN FEET 1 : 100

0' 100' 200'

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

Ramsay Field Soccer/Multipurpose

Watsonville,CA

GRID SUMMARY

Name:	**North Spill Line**
Spacing:	30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY

CANDELA (PER FIXTURE)

	Entire Grid
Scan Average:	3624.2937
Maximum:	11277.76
Minimum:	1.65
No. of Points:	36

LUMINAIRE INFORMATION

Applied Circuits:	A, B, C, D
No. of Luminaires:	**84**
Total Load:	101.66 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

ENGINEERED DESIGN By: H.Sabers · File #172899Dr · 29-Apr-22

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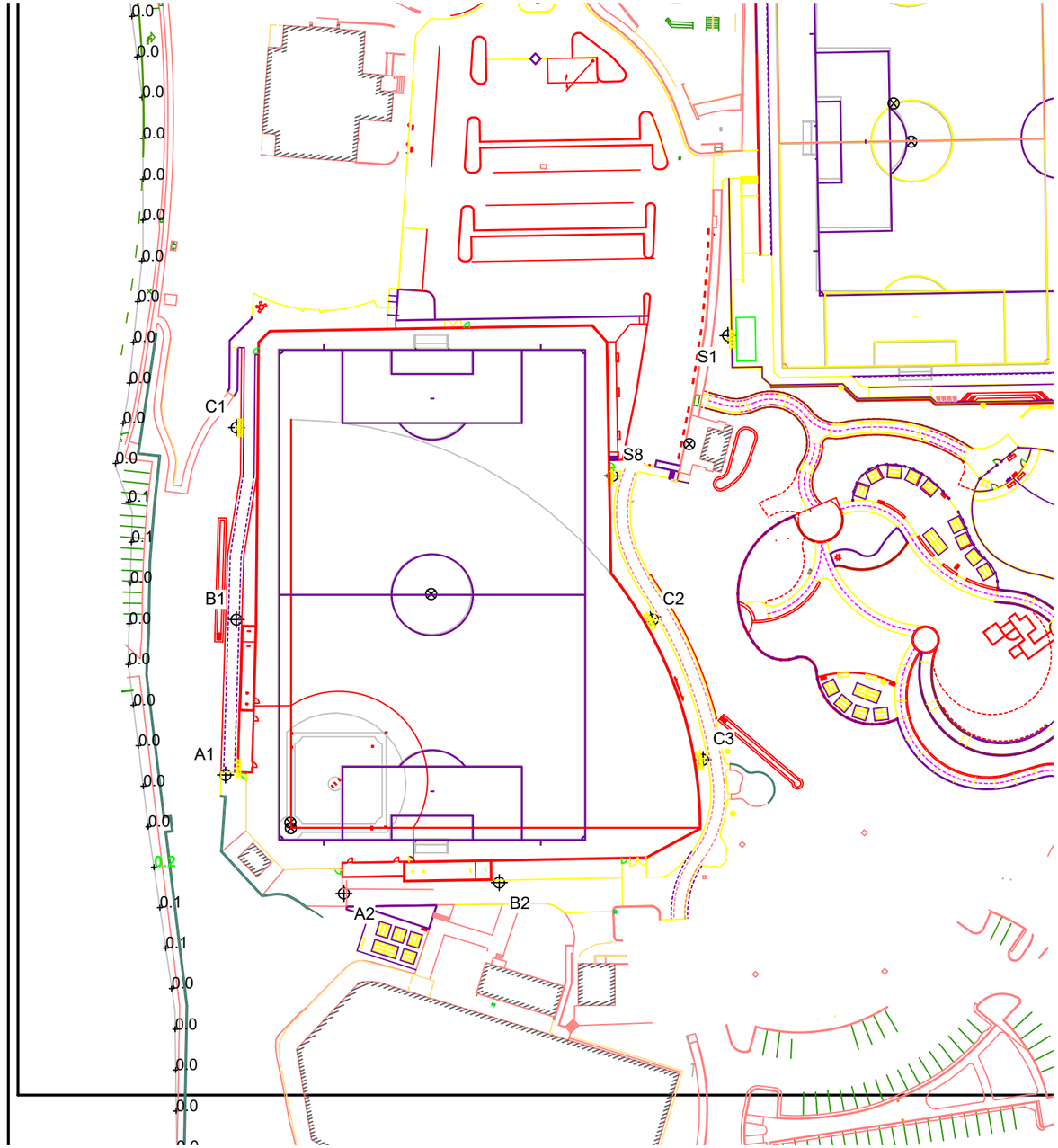
EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
1	A1	60'	-	60'	TLC-LED-900	1	1	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	A2	60'	-	15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	B1	60'	-	60'	TLC-LED-1500	1	1	0
				60'	TLC-LED-900	1	1	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	4	4	0
1	B2	60'	-	15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	4	4	0
1	C1	60'	0'	60'	TLC-LED-1500	1	1	0
				15.48'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	C2	60'	-	60'	TLC-LED-1500	2	2	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	C3	70'	-	70'	TLC-LED-1500	3	3	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1200	2	2	0
1	S1	80'	-	25'	CREE OSQ	1	0	1
				80'	TLC-LED-1500	5	5	0
1	S2	70'	-	70'	TLC-LED-900	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1500	4	4	0
1	S3	90'	-	90'	TLC-LED-900	3	3	0
				25'	CREE OSQ	1	0	1
				90'	TLC-LED-1500	7	7	0
1	S4	90'	-	90'	TLC-LED-900	2	2	0
				25'	CREE OSQ	1	0	1
				90'	TLC-LED-1500	8	8	0
1	S5	70'	-	70'	TLC-LED-900	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1500	4	4	0
1	S6	70'	-	25'	CREE OSQ	1	0	1
				70'	TLC-LED-1500	5	5	0
1	S8	70'	0'	70'	TLC-LED-1500	1	1	0
				15.48'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1200	4	4	0
14	TOTALS					98	84	14



Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

SCALE IN FEET 1 : 100

0' 100' 200'

Ramsay Field Soccer/Multipurpose

Watsonville,CA

GRID SUMMARY

Name:	**West Spill Line**
Spacing:	30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY

HORIZONTAL FOOTCANDLES

	Entire Grid
Scan Average:	0.0291
Maximum:	0.18
Minimum:	0.00
No. of Points:	32

LUMINAIRE INFORMATION

Applied Circuits:	A, B, C, D
No. of Luminaires:	**84**
Total Load:	101.66 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

ENGINEERED DESIGN By: H.Sabers · File #172899Dr · 29-Apr-22

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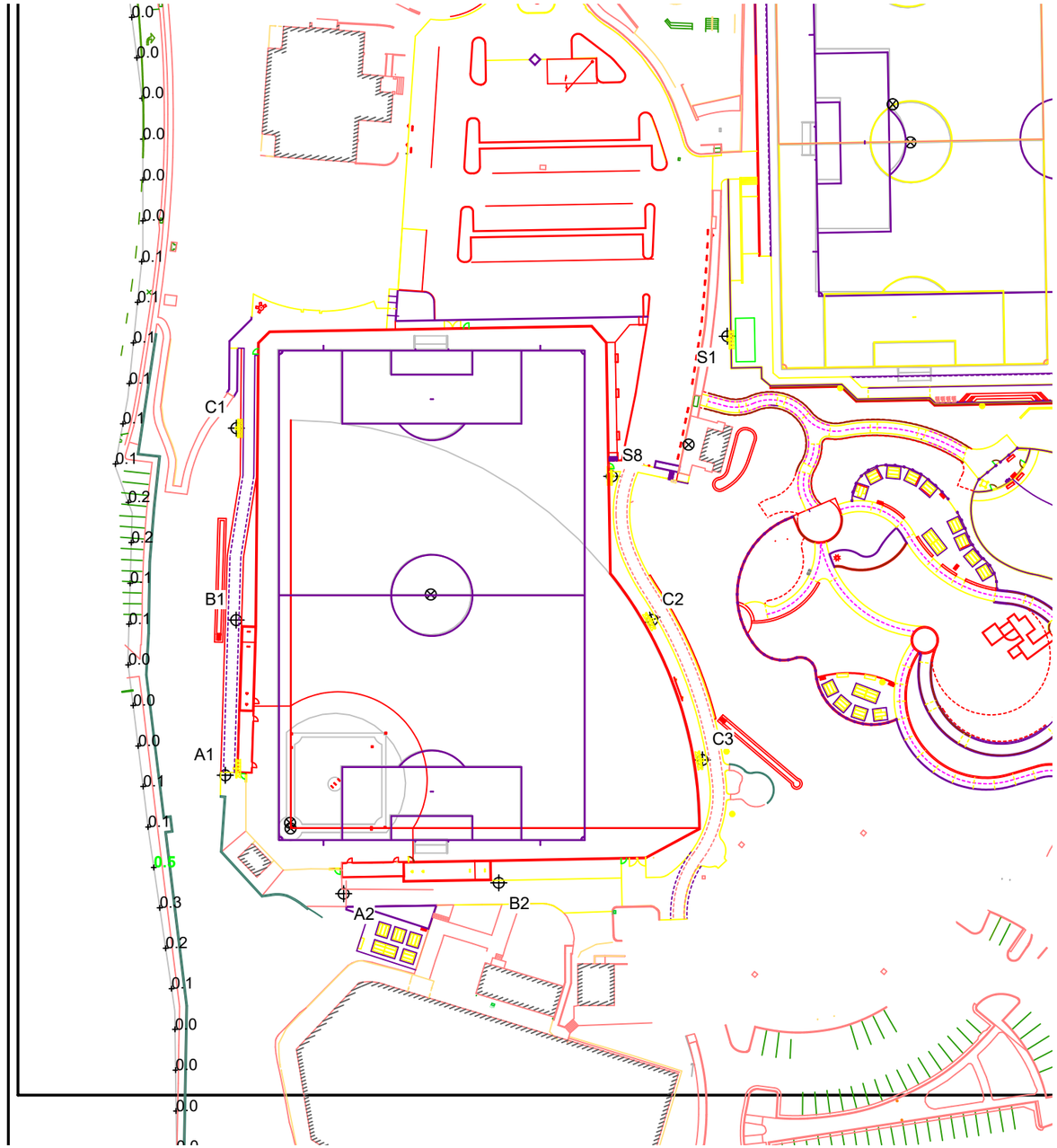
EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
1	A1	60'	-	60'	TLC-LED-900	1	1	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	A2	60'	-	15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	B1	60'	-	60'	TLC-LED-1500	1	1	0
				60'	TLC-LED-900	1	1	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	4	4	0
1	B2	60'	-	15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	4	4	0
1	C1	60'	0'	60'	TLC-LED-1500	1	1	0
				15.48'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	C2	60'	-	60'	TLC-LED-1500	2	2	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	C3	70'	-	70'	TLC-LED-1500	3	3	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1200	2	2	0
1	S1	80'	-	25'	CREE OSQ	1	0	1
				80'	TLC-LED-1500	5	5	0
1	S2	70'	-	70'	TLC-LED-900	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1500	4	4	0
1	S3	90'	-	90'	TLC-LED-900	3	3	0
				25'	CREE OSQ	1	0	1
				90'	TLC-LED-1500	7	7	0
1	S4	90'	-	90'	TLC-LED-900	2	2	0
				25'	CREE OSQ	1	0	1
				90'	TLC-LED-1500	8	8	0
1	S5	70'	-	70'	TLC-LED-900	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1500	4	4	0
1	S6	70'	-	25'	CREE OSQ	1	0	1
				70'	TLC-LED-1500	5	5	0
1	S8	70'	0'	70'	TLC-LED-1500	1	1	0
				15.48'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1200	4	4	0
14	TOTALS					98	84	14



Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

SCALE IN FEET 1 : 100

0' 100' 200'

ENGINEERED DESIGN By: H.Sabers · File #172899Dr · 29-Apr-22

Ramsay Field Soccer/Multipurpose

Watsonville,CA

GRID SUMMARY

Name:	**West Spill Line**
Spacing:	30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY

MAX VERTICAL FOOTCANDLES

	Entire Grid
Scan Average:	0.0770
Maximum:	0.47
Minimum:	0.00
No. of Points:	32

LUMINAIRE INFORMATION

Applied Circuits:	A, B, C, D
No. of Luminaires:	**84**
Total Load:	101.66 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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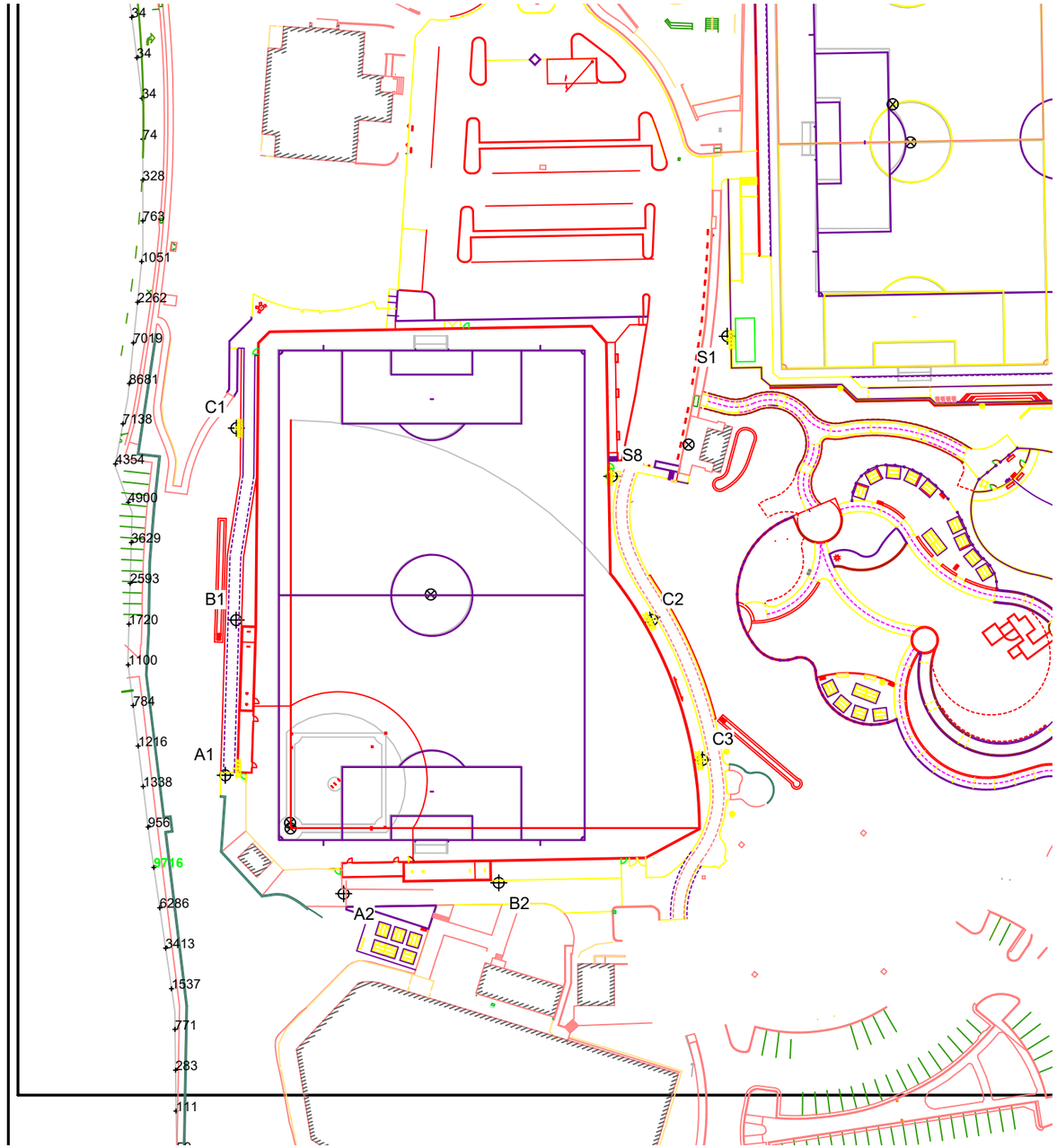
EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
1	A1	60'	-	60'	TLC-LED-900	1	1	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	A2	60'	-	15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	B1	60'	-	60'	TLC-LED-1500	1	1	0
				60'	TLC-LED-900	1	1	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	4	4	0
1	B2	60'	-	15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	4	4	0
1	C1	60'	0'	60'	TLC-LED-1500	1	1	0
				15.48'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	C2	60'	-	60'	TLC-LED-1500	2	2	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	C3	70'	-	70'	TLC-LED-1500	3	3	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1200	2	2	0
1	S1	80'	-	25'	CREE OSQ	1	0	1
				80'	TLC-LED-1500	5	5	0
1	S2	70'	-	70'	TLC-LED-900	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1500	4	4	0
1	S3	90'	-	90'	TLC-LED-900	3	3	0
				25'	CREE OSQ	1	0	1
				90'	TLC-LED-1500	7	7	0
1	S4	90'	-	90'	TLC-LED-900	2	2	0
				25'	CREE OSQ	1	0	1
				90'	TLC-LED-1500	8	8	0
1	S5	70'	-	70'	TLC-LED-900	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1500	4	4	0
1	S6	70'	-	25'	CREE OSQ	1	0	1
				70'	TLC-LED-1500	5	5	0
1	S8	70'	0'	70'	TLC-LED-1500	1	1	0
				15.48'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1200	4	4	0
14	TOTALS					98	84	14



Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

SCALE IN FEET 1 : 100

0' 100' 200'

ENGINEERED DESIGN By: H.Sabers · File #172899Dr · 29-Apr-22

Ramsay Field Soccer/Multipurpose

Watsonville,CA

GRID SUMMARY

Name:	**West Spill Line**
Spacing:	30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY

CANDELA (PER FIXTURE)

	Entire Grid
Scan Average:	2257.3960
Maximum:	9716.33
Minimum:	1.39
No. of Points:	32

LUMINAIRE INFORMATION

Applied Circuits:	A, B, C, D
No. of Luminaires:	**84**
Total Load:	101.66 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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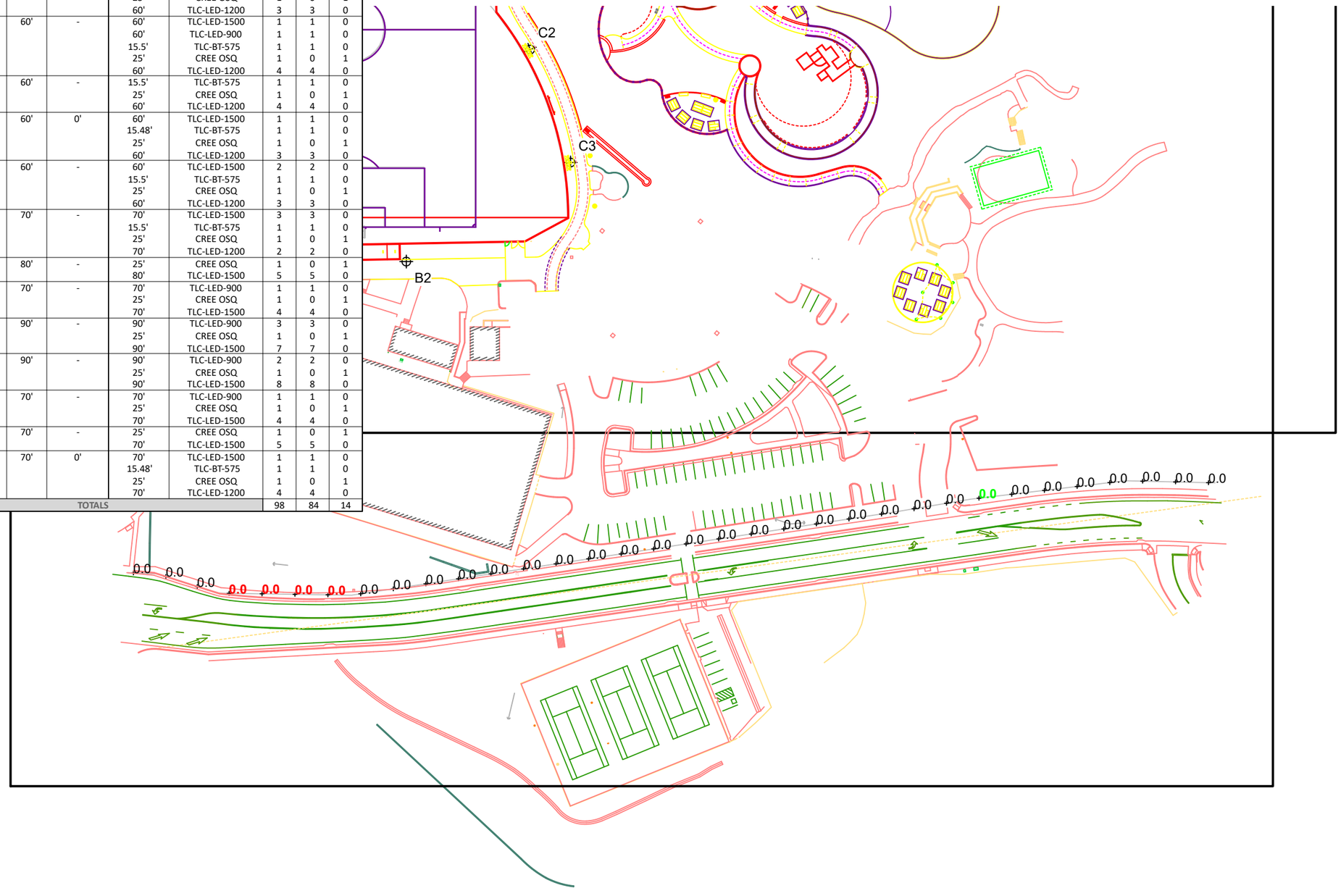
EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
1	A1	60'	-	60'	TLC-LED-900	1	1	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	A2	60'	-	15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	B1	60'	-	60'	TLC-LED-1500	1	1	0
				60'	TLC-LED-900	1	1	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	4	4	0
1	B2	60'	-	15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	4	4	0
1	C1	60'	0'	60'	TLC-LED-1500	1	1	0
				15.48'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	C2	60'	-	60'	TLC-LED-1500	2	2	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	C3	70'	-	70'	TLC-LED-1500	3	3	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1200	2	2	0
1	S1	80'	-	25'	CREE OSQ	1	0	1
				80'	TLC-LED-1500	5	5	0
1	S2	70'	-	70'	TLC-LED-900	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1500	4	4	0
1	S3	90'	-	90'	TLC-LED-900	3	3	0
				25'	CREE OSQ	1	0	1
				90'	TLC-LED-1500	7	7	0
1	S4	90'	-	90'	TLC-LED-900	2	2	0
				25'	CREE OSQ	1	0	1
				90'	TLC-LED-1500	8	8	0
1	S5	70'	-	70'	TLC-LED-900	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1500	4	4	0
1	S6	70'	-	25'	CREE OSQ	1	0	1
				70'	TLC-LED-1500	5	5	0
1	S8	70'	0'	70'	TLC-LED-1500	1	1	0
				15.48'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1200	4	4	0
14	TOTALS					98	84	14



SCALE IN FEET 1 : 100

0' 100' 200'

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

ENGINEERED DESIGN By: H.Sabers · File #172899Dr · 29-Apr-22

Ramsay Field Soccer/Multipurpose

Watsonville,CA

GRID SUMMARY

Name:	**South Spill Line**
Spacing:	30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY

HORIZONTAL FOOTCANDLES

	Entire Grid
Scan Average:	0.0000
Maximum:	0.00
Minimum:	0.00
No. of Points:	34

LUMINAIRE INFORMATION

Applied Circuits:	A, B, C, D
No. of Luminaires:	**84**
Total Load:	101.66 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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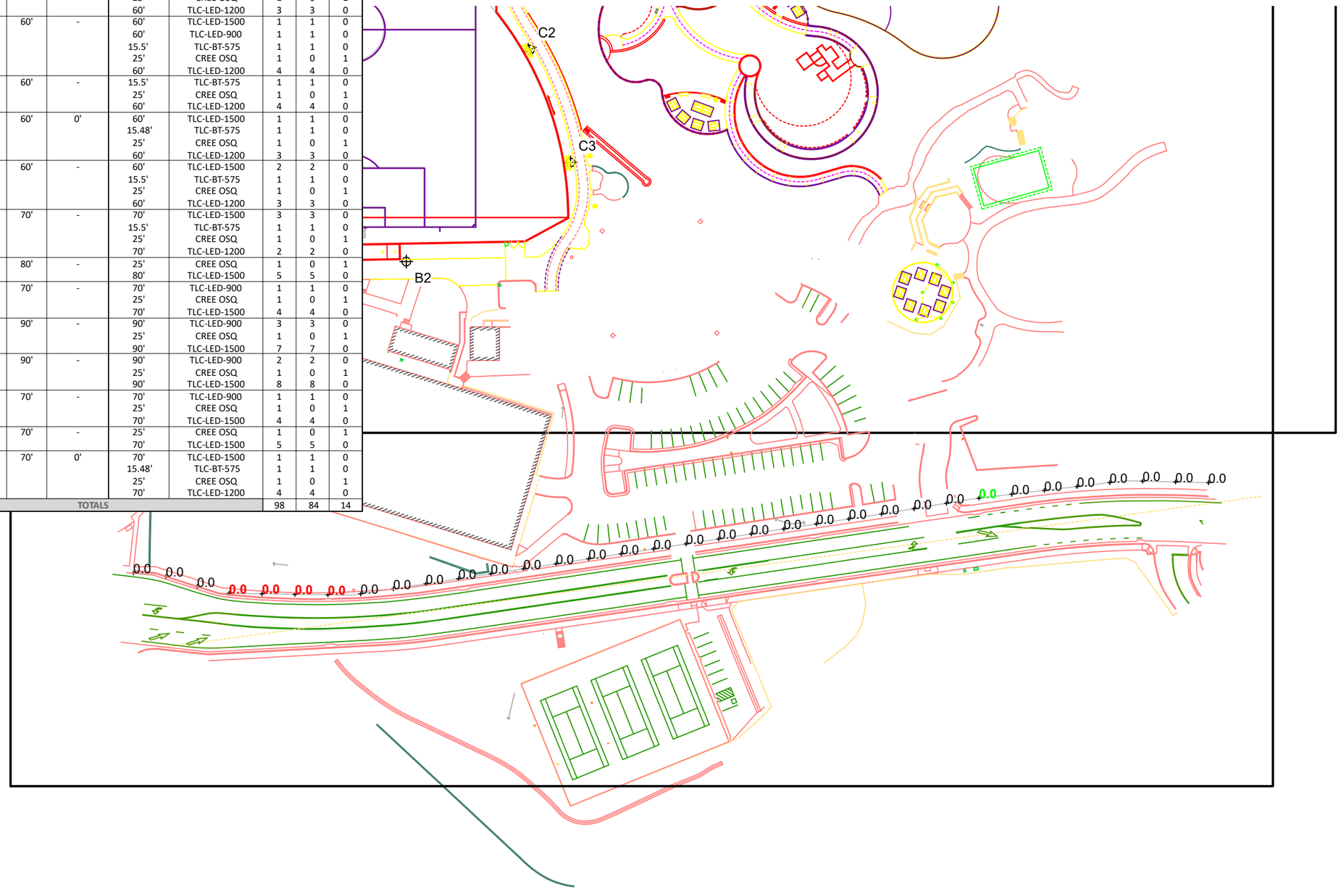
EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
1	A1	60'	-	60'	TLC-LED-900	1	1	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	A2	60'	-	15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	B1	60'	-	60'	TLC-LED-1500	1	1	0
				60'	TLC-LED-900	1	1	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	4	4	0
1	B2	60'	-	15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	4	4	0
1	C1	60'	0'	60'	TLC-LED-1500	1	1	0
				15.48'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	C2	60'	-	60'	TLC-LED-1500	2	2	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	C3	70'	-	70'	TLC-LED-1500	3	3	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1200	2	2	0
1	S1	80'	-	25'	CREE OSQ	1	0	1
				80'	TLC-LED-1500	5	5	0
1	S2	70'	-	70'	TLC-LED-900	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1500	4	4	0
1	S3	90'	-	90'	TLC-LED-900	3	3	0
				25'	CREE OSQ	1	0	1
				90'	TLC-LED-1500	7	7	0
1	S4	90'	-	90'	TLC-LED-900	2	2	0
				25'	CREE OSQ	1	0	1
				90'	TLC-LED-1500	8	8	0
1	S5	70'	-	70'	TLC-LED-900	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1500	4	4	0
1	S6	70'	-	25'	CREE OSQ	1	0	1
				70'	TLC-LED-1500	5	5	0
1	S8	70'	0'	70'	TLC-LED-1500	1	1	0
				15.48'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1200	4	4	0
14	TOTALS					98	84	14



SCALE IN FEET 1 : 100

0' 100' 200'

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

ENGINEERED DESIGN By: H.Sabers · File #172899Dr · 29-Apr-22

Ramsay Field Soccer/Multipurpose

Watsonville,CA

GRID SUMMARY

Name:	**South Spill Line**
Spacing:	30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY

MAX VERTICAL FOOTCANDLES

	Entire Grid
Scan Average:	0.0002
Maximum:	0.00
Minimum:	0.00
No. of Points:	34

LUMINAIRE INFORMATION

Applied Circuits:	A, B, C, D
No. of Luminaires:	**84**
Total Load:	101.66 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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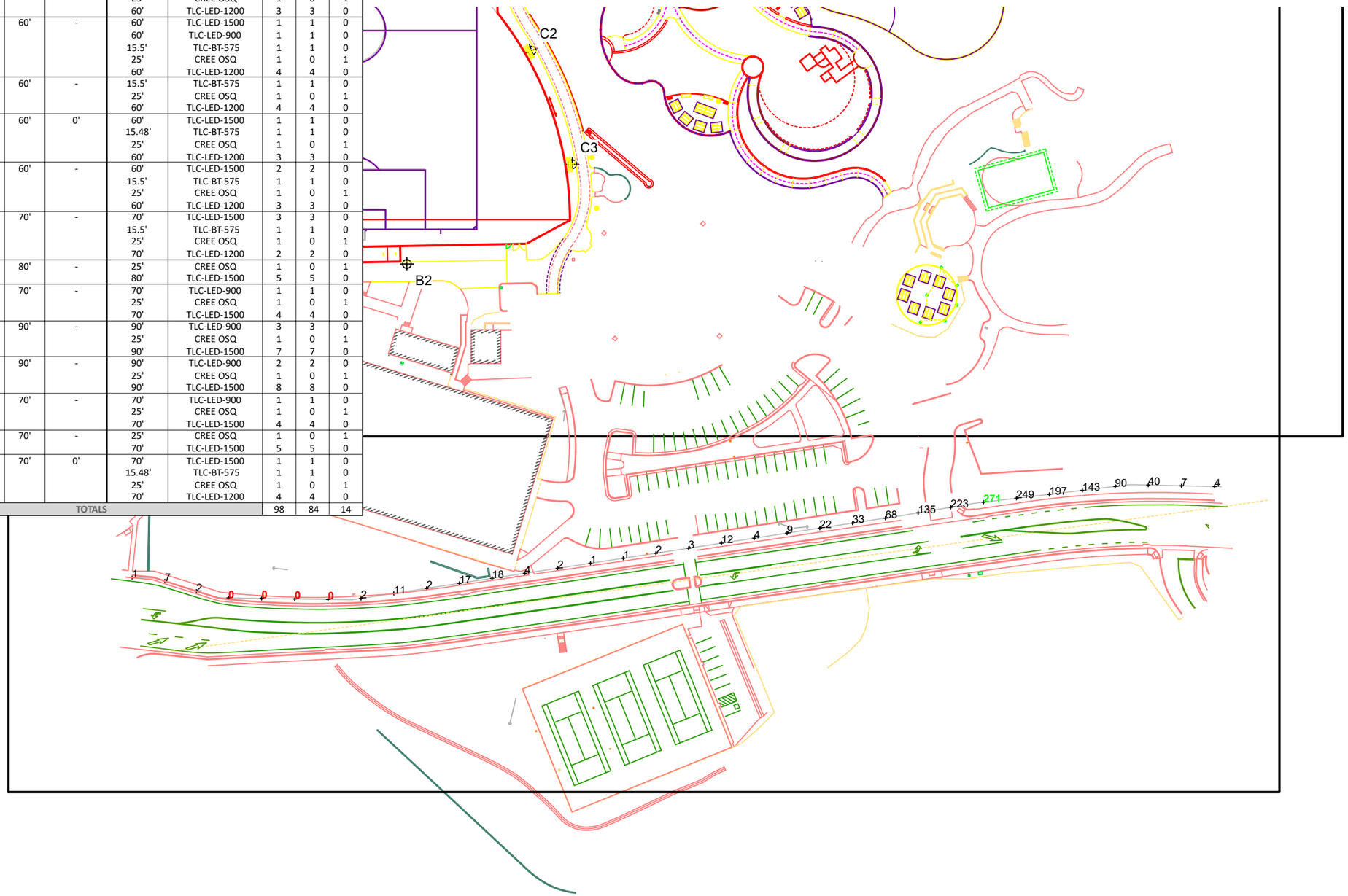
EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
1	A1	60'	-	60'	TLC-LED-900	1	1	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	A2	60'	-	15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	B1	60'	-	60'	TLC-LED-1500	1	1	0
				60'	TLC-LED-900	1	1	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	4	4	0
1	B2	60'	-	15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	4	4	0
1	C1	60'	0'	60'	TLC-LED-1500	1	1	0
				15.48'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	C2	60'	-	60'	TLC-LED-1500	2	2	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				60'	TLC-LED-1200	3	3	0
1	C3	70'	-	70'	TLC-LED-1500	3	3	0
				15.5'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1200	2	2	0
1	S1	80'	-	25'	CREE OSQ	1	0	1
				80'	TLC-LED-1500	5	5	0
1	S2	70'	-	70'	TLC-LED-900	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1500	4	4	0
1	S3	90'	-	90'	TLC-LED-900	3	3	0
				25'	CREE OSQ	1	0	1
				90'	TLC-LED-1500	7	7	0
1	S4	90'	-	90'	TLC-LED-900	2	2	0
				25'	CREE OSQ	1	0	1
				90'	TLC-LED-1500	8	8	0
1	S5	70'	-	70'	TLC-LED-900	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1500	4	4	0
1	S6	70'	-	25'	CREE OSQ	1	0	1
				70'	TLC-LED-1500	5	5	0
1	S8	70'	0'	70'	TLC-LED-1500	1	1	0
				15.48'	TLC-BT-575	1	1	0
				25'	CREE OSQ	1	0	1
				70'	TLC-LED-1200	4	4	0
14	TOTALS					98	84	14



Ramsay Field Soccer/Multipurpose

Watsonville,CA

GRID SUMMARY

Name:	**South Spill Line**
Spacing:	30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY

CANDELA (PER FIXTURE)

	Entire Grid
Scan Average:	46.4523
Maximum:	270.96
Minimum:	0.00
No. of Points:	34

LUMINAIRE INFORMATION

Applied Circuits:	A, B, C, D
No. of Luminaires:	**84**
Total Load:	101.66 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

SCALE IN FEET 1 : 100

0' 100' 200'

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

ENGINEERED DESIGN By: H.Sabers · File #172899Dr · 29-Apr-22

musco Lighting

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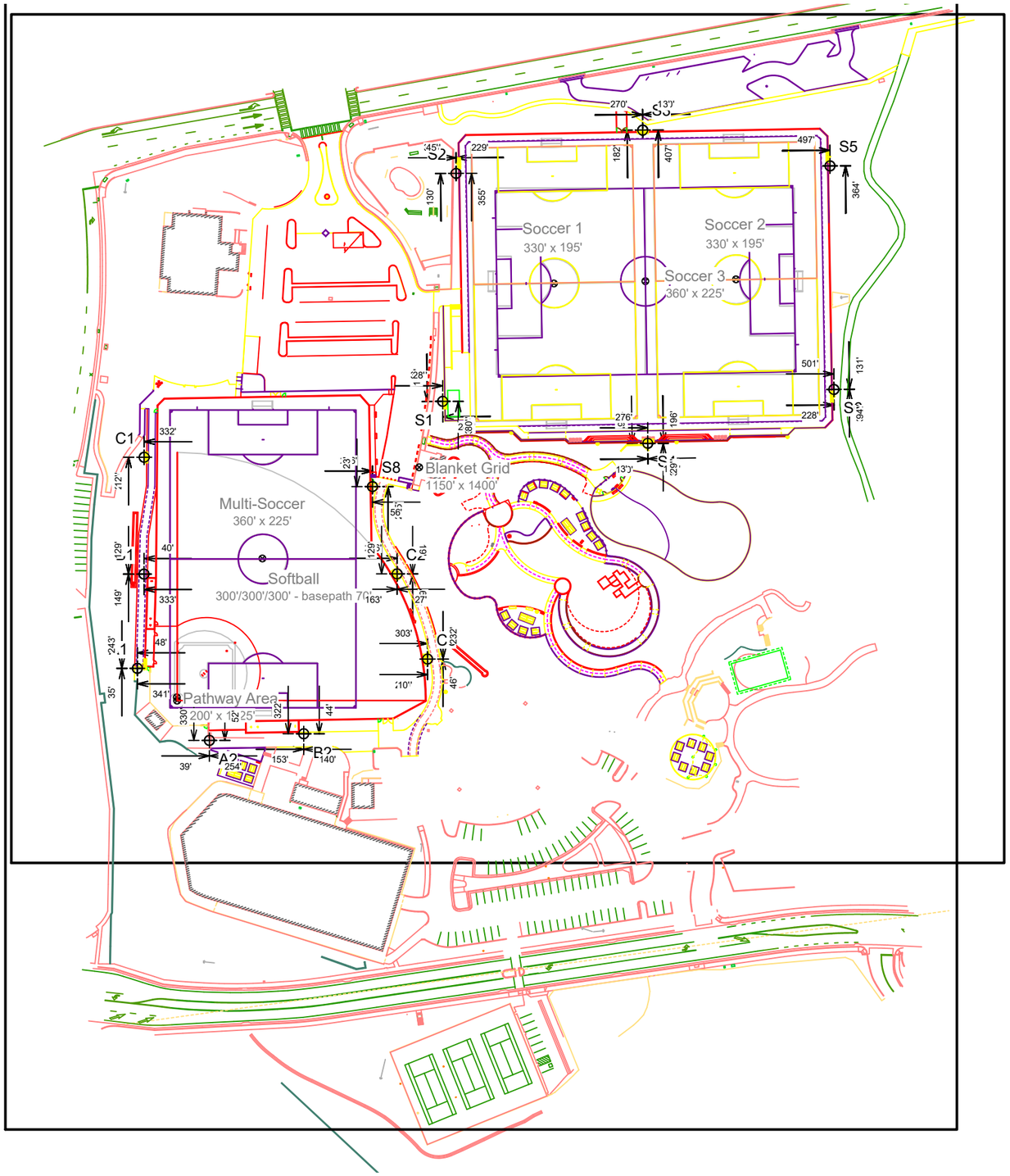

SCALE IN FEET 1 : 150

0' 150' 300'

ENGINEERED DESIGN By: H.Sabers · File #172899Dr · 29-Apr-22

Pole location(s) ⌖ dimensions are relative to 0,0 reference point(s) ⊗

Ramsay Field Soccer/Multipurpose

Watsonville,CA

EQUIPMENT LAYOUT

INCLUDES:
- Blanket Grid
- Multi-Soccer
- Pathway Area
- Soccer 1
- Soccer 2
- Soccer 3
- Softball

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

EQUIPMENT LIST FOR AREAS SHOWN

		Pole		Luminaires		
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE
1	A1	60'	-	60'	TLC-LED-900	1
				15.5'	TLC-BT-575	1
				25'	CREE OSQ	1
				60'	TLC-LED-1200	3
1	A2	60'	-	15.5'	TLC-BT-575	1
				25'	CREE OSQ	1
				60'	TLC-LED-1200	3
1	B1	60'	-	60'	TLC-LED-1500	1
				60'	TLC-LED-900	1
				15.5'	TLC-BT-575	1
				25'	CREE OSQ	1
				60'	TLC-LED-1200	4
1	B2	60'	-	15.5'	TLC-BT-575	1
				25'	CREE OSQ	1
				60'	TLC-LED-1200	4
1	C1	60'	-	60'	TLC-LED-1500	1
				15.5'	TLC-BT-575	1
				25'	CREE OSQ	1
				60'	TLC-LED-1200	3
1	C2	60'	-	60'	TLC-LED-1500	2
				15.5'	TLC-BT-575	1
				25'	CREE OSQ	1
				60'	TLC-LED-1200	3
1	C3	70'	-	70'	TLC-LED-1500	3
				15.5'	TLC-BT-575	1
				25'	CREE OSQ	1
				70'	TLC-LED-1200	2
1	S1	80'	-	25'	CREE OSQ	1
				80'	TLC-LED-1500	5
1	S2	70'	-	70'	TLC-LED-900	1
				25'	CREE OSQ	1
				70'	TLC-LED-1500	4
1	S3	90'	-	90'	TLC-LED-900	3
				25'	CREE OSQ	1
				90'	TLC-LED-1500	7
1	S4	90'	-	90'	TLC-LED-900	2
				25'	CREE OSQ	1
				90'	TLC-LED-1500	8
1	S5	70'	-	70'	TLC-LED-900	1
				25'	CREE OSQ	1
				70'	TLC-LED-1500	4
1	S6	70'	-	25'	CREE OSQ	1
				70'	TLC-LED-1500	5
1	S8	70'	-	70'	TLC-LED-1500	1
				15.5'	TLC-BT-575	1
				25'	CREE OSQ	1
				70'	TLC-LED-1200	4
14	TOTALS					98

SINGLE LUMINAIRE AMPERAGE DRAW CHART

Ballast Specifications (.90 min power factor)	Line Amperage Per Luminaire (max draw)						
Single Phase Voltage	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
TLC-LED-1200	7.1	6.8	6.4	5.2	4.2	4.0	3.0
TLC-LED-1500	8.5	8.1	7.4	6.4	5.1	4.7	3.7
TLC-LED-900	5.3	5.0	4.6	4.0	3.2	2.9	2.3
TLC-BT-575	3.4	3.2	2.9	2.5	2.0	1.8	1.5
Cree OSQ	-	-	-	-	0.3	-	0.2

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Special-Status Species in the Project Vicinity and Tree Disposition Plan

C

APPENDIX

Special-Status Plant Species with Potential to Occur in the Project Vicinity

Species	Status (Federal/State/ CNPS)	Suitable Habitat Description	Potential to Occur on Project Site
Anderson's manzanita *(Arctostaphylos andersonii)*	--/--/1B.2	Broadleaved upland forest, chaparral, and North Coast coniferous forest. Known only from the Santa Cruz Mountains. Prefers open sites in redwood forest; elevation 180-800m. Blooming Period: November - April.	Unlikely. Suitable habitat not found at the project site.
Arcuate bush-mallow *(Malacothamnus arcuatus)*	--/--/1B.2	Chaparral, in gravelly alluvium; elevation 80-355m. Blooming Period: April - September.	Unlikely. Suitable habitat not found at the project site.
Ben Lomond buckwheat *(Eriogonum nudum* var. *decurrens)*	--/--/1B.1	Chaparral, cismontane woodland, lower montane coniferous forest, and ponderosa pine sand hills; elevation 50-800m. Blooming Period: June - October.	Unlikely. Suitable habitat not found at the project site.
Ben Lomond spineflower *(Chorizanthe pungens* var. *hartwegiana)*	FE/--/1B.1	Lower montane coniferous forest; found on Ben Lomond sands and Zayante coarse sands in maritime ponderosa pine sand hills; elevation 120-470m. Blooming Period: April - July.	Unlikely. Suitable habitat not found at the project site.
Bent-flowered fiddleneck *(Amsinckia lunaris)*	--/--/1B.2	Coastal bluff scrub, cismontane woodland, and valley and foothill grassland, on decomposed shale soils; elevation 3-500m. Blooming Period: March - June.	Unlikely. Suitable habitat not found at the project site.
Bonny Doon manzanita *(Arctostaphylos silvicola)*	--/--/1B.2	Chaparral, closed-cone coniferous forest, and lower montane coniferous forest. Known only from inland marine Zayante sands in Santa Cruz County; elevation 120-390m. Blooming Period: February – March.	Unlikely. Suitable habitat not found at the project site.
Bristly sedge *(Carex comosa)*	--/--/2B.1	Coastal prairie, marshes and swamps (lake margins), and valley and foothill grassland; elevation 0-625m. Blooming Period: May - September.	Unlikely. Suitable habitat not found at the project site.
Choris' popcorn-flower *(Plagiobothrys chorisianus* var. *chorisianus)*	--/--/1B.2	Chaparral, coastal scrub, coastal prairie, mesic sites; elevation 15-100m. Blooming Period: March - June.	Unlikely. Suitable habitat not found at the project site.
Congdon's tarplant *(Centromadia parryi* spp. *congdonii)*	--/--/1B.1	Valley and foothill grassland (alkaline); elevation 1-230m. Known to occur on various substrates, and in disturbed and ruderal (weedy) areas. Blooming Period: June - November.	Low Potential. Possible suitable habitat present at the project site and species has been observed in proximity to the project site.
Coyote ceanothus *(Ceanothus ferrisiae)*	FE/--/1B.1	Serpentine sites in chaparral, coastal scrub, and valley and foothill grassland; elevation 120-460m. Blooming Period: January - May.	Unlikely. Suitable habitat not found at the project site.
Dudley's lousewort *(Pedicularis dudleyi)*	--/SR/1B.2	Chaparral, North Coast coniferous forest, valley and foothill grassland. Deep shady woods of older coast redwood forests, also in maritime chaparral; elevation 100-490m. Blooming Period: April - June.	Unlikely. Suitable habitat not found at the project site.
Eastwood's goldenbush *(Ericameria fasciculata)*	--/--/1B.1	Closed cone coniferous forest, chaparral (maritime), coastal dunes, and coastal scrub/sand; elevation 30 - 275 meters. Blooming Period: July - October.	Unlikely. Suitable habitat not found at the project site.

Species	Status (Federal/State/ CNPS)	Suitable Habitat Description	Potential to Occur on Project Site
Fragrant fritillary *(Fritillaria liliacea)*	--/--/1B.2	Coastal scrub, valley and foothill grassland, and coastal prairie. Often on serpentine; various soils reported though usually clay in grassland; elevation 3-410m. Blooming Period: February - April.	Unlikely. Suitable habitat not found at the project site.
Hooker's manzanita *(Arctostaphylos hookeri* ssp. *hookeri)*	--/--/1B.2	Sandy soils in coastal scrub, chaparral, and closed-cone forest habitats; evergreen; elevation 45-215m. Blooming Period: February - April.	Unlikely. Suitable habitat not found at the project site.
Kellogg's horkelia *(Horkelia cuneata* ssp. *sericea)*	--/--/1B.1	Closed-cone coniferous forest, maritime chaparral, coastal scrub, sandy or gravelly openings; elevation 10-200m. Blooming Period: April - September.	Unlikely. Suitable habitat not found at the project site.
Loma Prieta hoita *(Hoita strobilina)*	--/--/1B.1	Wet areas on serpentine substrate in chaparral, cismontane woodland, and riparian woodland; elevation 30-860m. Blooming Period: May - October.	Unlikely. Suitable habitat not found at the project site.
Minute pocket moss *(Fissidens pauperculus)*	--/--/1B.2	North coast coniferous forest. Moss growing on damp soil along the coast; elevation 10-100m. Evergreen.	Unlikely. Suitable habitat not found at the project site.
Monterey gilia *(Gilia tenuiflora* ssp. *arenaria)*	FE/ST/1B.2	Maritime chaparral, cismontane woodland, coastal dunes, coastal scrub, sandy openings; elevation 0-45m. Blooming Period: April - June.	Unlikely. Suitable habitat not found at the project site.
Monterey spineflower *(Chorizanthe pungens* var. *pungens)*	FT/--/1B.2	Sandy openings in maritime chaparral, cismontane woodland, coastal dunes, coastal scrub, and valley and foothill grassland; elevation 3-450m. Blooming Period: April - June.	Unlikely. Suitable habitat not found at the project site.
Most beautiful jewel-flower *(Streptanthus albidus* ssp. *peramoenus)*	--/--/1B.2	Chaparral, valley and foothill grassland, and cismontane woodland; serpentine outcrops, on ridges and slopes; elevation 120-730m. Blooming Period: April - June.	Unlikely. Suitable habitat not found at the project site.
Mt. Hamilton fountain thistle *(Cirsium fontinale* var. *campylon)*	--/--/1B.2	Serpentine seeps in chaparral, cismontane woodland, and valley and foothill grassland; elevation 100-890m. Blooming Period: February - October.	Unlikely. Suitable habitat not found at the project site.
Northern curly-leaved monardella *(Monardella sinuata ssp. nigrescens)*	--/--/1B.2	Sandy sites in chaparral, coastal dunes, coastal scrub, and lower montane coniferous forest (ponderosa pine sandhills); elevation 0-300m. Blooming Period: April - September.	Unlikely. Suitable habitat not found at the project site.
Pacific Grove clover *(Trifolium polyodon)*	--/SR/1B.1	Closed-cone coniferous forest, coastal prairie, meadows and seeps, valley and foothill grassland, mesic; elevation 5-120m. Blooming Period: April - June	Unlikely. Suitable habitat not found at the project site.
Pajaro manzanita *(Arctostaphylos pajaroensis)*	--/--/1B.1	Sandy soils in chaparral habitat; evergreen; elevation 30-760m. Blooming Period: December - March	Unlikely. Suitable habitat not found at the project site.
Perennial goldfields (*Lasthenia californica ssp. macrantha*)	--/--/1B.2	Coastal bluff scrub, coastal dunes, coastal scrub; elevation 5-185m. Blooming Period: January – November.	Unlikely. Suitable habitat not found at the project site.

Species	Status (Federal/State/ CNPS)	Suitable Habitat Description	Potential to Occur on Project Site
Pine rose *(Rosa pinetorum)*	--/--/1B.2	Closed-cone coniferous forest; elevation 2-300m. Blooming Period: May - July.	Unlikely. Suitable habitat not found at the project site.
Robust spineflower *(Chorizanthe robusta* var. *robusta)*	FE/--/1B.1	Sandy or gravelly openings in cismontane woodland, coastal dunes, and coastal scrub; prefers sandy terraces and bluffs or loose sand; elevation 3-300m. Blooming Period: April - July.	Unlikely. Suitable habitat not found at the project site.
Saline clover *(Trifolium hydrophilum)*	--/--/1B.2	Marshes and swamps, valley and foothill grassland, and vernal pools. Prefers wet, alkaline sites; elevation 0-300m. Blooming Period: April - June.	Unlikely. Suitable habitat not found at the project site.
San Francisco popcornflower *(Plagiobothrys diffusus)*	--/SE/1B.1	Valley and foothill grassland, and coastal prairie. Historically from grassy slopes with marine influence; elevation 60-485m. Blooming Period: March - June.	Unlikely. Suitable habitat not found at the project site.
Sand-loving wallflower *(Erysimum ammophilum)*	--/--/1B.2	Maritime chaparral, coastal dunes, coastal scrub, sandy openings; elevation 0 – 60m. Blooming Period: February - June.	Unlikely. Suitable habitat not found at the project site.
Santa Clara red ribbons *(Clarkia concinna* ssp. automixa)	--/--/4.3	Cismontane woodland, chaparral. On slopes and near drainages, elevation 80-225m. Blooming Period: May - June.	Unlikely. Suitable habitat not found at the project site.
Santa Clara Valley dudleya *(Dudleya abramsii* ssp. *setchellii)*	FE/--/1B.1	Valley and foothill grassland, and cismontane woodland. Endemic to serpentine outcrops and on rocks within grassland or woodland in Santa Clara County; elevation 80-335m. Blooming Period: April - June.	Unlikely. Suitable habitat not found at the project site.
Santa Cruz clover *(Trifolium buckwestiorum)*	--/--/1B.1	Broadleaved upland forest, cismontane woodland, and coastal prairie; prefers moist grassland and gravelly margins; elevation 105-610m. Blooming Period: April - October.	Unlikely. Suitable habitat not found at the project site.
Santa Cruz Mountains beardtongue *(Penstemon rattanii* var. *kleei)*	--/--/1B.2	Chaparral and lower montane coniferous forest. Sandy shale slopes in transition zone between forest and chaparral; elevation 400-1100m. Blooming Period: May - June.	Unlikely. Suitable habitat not found at the project site.
Santa Cruz Mountains pussypaws *(Calyptridium parryi* var. *hesseae)*	--/--/1B.1	Sandy or gravelly openings in chaparral and cismontane woodland; elevation 305-1530m. Blooming Period: May - August.	Unlikely. Suitable habitat not found at the project site.
Santa Cruz tarplant *(Holocarpha macradenia)*	FT/SE/1B.1	Coastal prairie, coastal scrub, and valley and foothill grassland; often on clay or sandy soils; elevation 10-220m. Blooming Period: June - October.	Low Potential. Possible suitable habitat present at the project site and species has been observed in proximity to the project site.
Santa Cruz wallflower *(Erysimum teretifolium)*	FE/SE/1B.1	Lower montane coniferous forest and chaparral. Pine Parkland Area, on inland marine sands (Zayante coarse sand); elevation 120-610m. Blooming Period: March - July.	Unlikely. Suitable habitat not found at the project site.
Scotts Valley polygonum *(Polygonum hickmanii)*	FE/SE/1B.1	Valley and foothill grassland. Purisima sandstone or mudstone with a thin soil layer, vernally moist due to runoff; elevation 210-250m. Blooming Period: May - October.	Unlikely. Suitable habitat not found at the project site.

Species	Status (Federal/State/ CNPS)	Suitable Habitat Description	Potential to Occur on Project Site
Scotts Valley spineflower *(Chorizanthe robusta* var. *hartwegii)*	FE/--/1B.1	Meadows, and valley and foothill grassland. In grasslands with mudstone and sandstone outcrops; elevation 230-245m. Blooming Period: April - July.	Unlikely. Suitable habitat not found at the project site.
Seaside bird's-beak *(Cordylanthus rigidus* ssp. *littoralis)*	--/SE/1B.1	Closed-cone coniferous forest, maritime chaparral, cismontane woodland, coastal dunes, coastal scrub, sandy often disturbed sites; elevation 0-215m. Blooming Period: May - October.	Unlikely. Suitable habitat not found at the project site.
Smooth lessingia *(Lessingia micradenia* var. *glabrata)*	--/--/1B.2	Chaparral; endemic to Santa Clara County. Serpentine, often on roadsides; elevation 120-485m. Blooming Period: July - November.	Unlikely. Suitable habitat not found at the project site.
White-rayed pentachaeta *(Pentachaeta bellidiflora)*	FE/SE/1B.1	Valley and foothill grassland. Open dry, rocky slopes and grassy areas, often on soils derived from serpentine bedrock; elevation 35-620m. Blooming Period: March - May.	Unlikely. Suitable habitat not found at the project site.
Woodland woollythreads *(Monolopia gracilens)*	--/--/1B.2	Serpentine, open sites in broadleaved upland forest, chaparral, cismontane woodland, North Coast coniferous forest, and valley and foothill grassland; elevation 100-1200m. Blooming Period: March - July.	Unlikely. Suitable habitat not found at the project site.
Yadon's rein orchid *(Piperia yadonii)*	FE/--/1B.1	Sandy sites in coastal bluff scrub, closed cone coniferous forest, maritime chaparral; elevation 10-510m. Blooming Period: May - August.	Unlikely. Suitable habitat not found at the project site.

SOURCE: CDFW 2020, CNPS 2020

NOTE: Status Codes:

Federal (USFWS)

FE: Listed as Endangered under the Federal Endangered Species Act.

FT: Listed as Threatened under the Federal Endangered Species Act.

FC: A Candidate for listing as Threatened or Endangered under the Federal Endangered Species Act.

FSC: Species of Special Concern.

FD: Delisted under the Federal Endangered Species Act.

State (CDFW)

SE: Listed as Endangered under the California Endangered Species Act.

ST: Listed as Threatened under the California Endangered Species Act.

SR: Listed as Rare under the California Endangered Species Act.

SC: A Candidate for listing as Threatened or Endangered under the California Endangered Species Act.

SSC: Species of Special Concern.

SFP: Fully Protected species under the California Fish and Game Code.

SD: Delisted under the California Endangered Species Act.

CNPS Rare Plant Ranks and Threat Code Extensions

1B: Plants that are considered Rare, Threatened, or Endangered in California and elsewhere.

2B: Plants that are considered Rare, Threatened, or Endangered in California, but more common elsewhere.

.1: Seriously endangered in California (over 80% of occurrences threatened/high degree and immediacy of threat).

.2: Fairly endangered in California (20-80% occurrences threatened).

.3: Not very endangered in California (<20% of occurrences threatened or no current threats known).

Special-Status Wildlife Species with Potential to Occur in the Project Vicinity

Species	Status (Federal/State)	Suitable Habitat Description	Potential to Occur on Project Site
American badger *(Taxidea taxus)*	--/SSC	Most abundant in drier, open stages of most shrub, forest, and herbaceous habitats. Need sufficient food and open, uncultivated ground with friable soils to dig burrows. Prey on burrowing rodents.	Unlikely. Suitable habitat not found at the project site.
American peregrine falcon *(Falco peregrinus anatum)*	FD/SD,SFP	Occurs near wetlands, lakes, rivers, or other waters on cliffs, banks, dunes, mounds, and human-made structures. Nest consists of a scrape on a depression or ledge in an open site.	Unlikely. Suitable habitat not found at the project site.
Bank swallow *(Riparia riparia)*	--/ST	Highly colonial species that nests in alluvial soils along rivers, streams, lakes, and ocean coasts. Nesting colonies only occur in vertical banks or bluffs of friable soils at least one meter tall, suitable for burrowing with some predator deterrence values. Breeding colony present in Salinas River.	Unlikely. Suitable habitat not found at the project site.
Bay checkerspot butterfly *(Euphydryas editha bayensis)*	FT/--	Restricted to native grasslands on outcrops of serpentine soil in the vicinity of San Francisco Bay. *Plantago erecta* is the primary host plant; *Castilleja densiflora* and *C. exserta* are secondary host plants.	Unlikely. Suitable habitat not found at the project site.
Burrowing owl *(Athene cunicularia)*	--/SSC	Open, dry, annual or perennial grasslands, desert, or scrubland, with available small mammal burrows.	Unlikely. Suitable habitat not found at the project site.
California giant salamander *(Anodonta californiensis)*	--/SSC	Known from wet coastal forests near streams and seeps from Mendocino County south to Monterey County and east to Napa County. Aquatic larvae found in cold, clear streams, occasionally in lakes and ponds. Adults known from wet forests under rocks and logs near streams and lakes.	Unlikely. Suitable habitat not found at the project site.
California red-legged frog *(Rana draytonii)*	FT/SSC	Rivers, creeks, and stock ponds with pools and overhanging vegetation. Requires dense, shrubby or emergent riparian vegetation, and prefers short riffles and pools with slow-moving, well-oxygenated water. Needs upland habitat to aestivate (remain dormant during dry months) in small mammal burrows, cracks in the soil, or moist leaf litter.	Moderate Potential. Species known to occur within 1 mile of the project site.
California Ridgway's rail *(Rallus obsoletus obsoletus)*	FE/SE	Found in saltwater and brackish marshes, traversed by tidal sloughs in the vicinity of San Francisco Bay. Associated with abundant growths of pickleweed, but feeds away from cover on invertebrates from mud-bottomed sloughs.	Unlikely. Suitable habitat not found at the project site.
California tiger salamander *(Ambystoma californiense)*	FT/ST	Grasslands and oak woodlands near seasonal pools and stock ponds in central and coastal California. Needs upland habitat to aestivate (remain dormant during dry months) in small mammal burrows, cracks in the soil, or moist leaf litter. Requires seasonal water sources that persist into late March for breeding habitat.	Unlikely. Suitable habitat not found at the project site.

Species	Status (Federal/State)	Suitable Habitat Description	Potential to Occur on Project Site
Coast horned lizard *(Phrynosoma blainvillii)*	--/SSC	Arid grassland and scrubland habitats; prefers lowlands along sandy washes with scattered low bushes. Requires open areas for sunning, bushes for cover, patches of loose soil for burrowing, and abundant supply of ants and other insects for feeding.	Unlikely. Suitable habitat not found at the project site.
Coho salmon *(Oncorhynchus kisutch)*	FE/SE	Freshwater habitats; requires beds of loose, silt-free, coarse gravel for spawning, covered cool water, and sufficient oxygen levels.	Unlikely. Suitable habitat not found at the project site.
Cooper's hawk *(Accipter cooperii)*	--/SSC	Oak or riparian woodlands.	Moderate Potential. Species known to occur within 2 miles of the project site.
Foothill yellow-legged frog *(Rana boylii)*	--/SSC	Partly shaded, shallow streams and riffles with rocky substrate in a variety of habitats. Requires at least some cobble-sized substrate for egg-laying and 15 weeks of available water to attain metamorphosis.	Unlikely. Suitable habitat not found at the project site.
Golden eagle *(Aquila chrysaetos)*	--/SFP	Rolling foothill mountain areas, sage-juniper flats, and desert. Cliff-walled canyons provide nesting habitat in most parts of range. Also uses large trees in open areas.	Unlikely. Suitable habitat not found at the project site.
Longfin smelt *(Spirinchus thaleichthys)*	FC/ST	Euryhaline, nektonic and anadromous fish found in open waters of estuaries, mostly in middle or bottom of water column. Prefers salinities of 15-30 ppt, but can be found in completely freshwater to almost pure seawater.	Unlikely. Suitable habitat not found at the project site.
Monarch butterfly *(Danaus plexippus)*	FC/--	Winter roost sites. Wind protected tree groves (Eucalyptus, Monterey pine, cypress) with nectar and water sources nearby.	Low Potential. Species known to occur along local coastline.
Monterey shrew *(Sorex ornatus salarius)*	--/SSC	Riparian, wetland, and upland areas in the vicinity of the Salinas River delta. Prefers moist microhabitats. Feeds on insects and other invertebrates found under logs, rocks, and litter.	Unlikely. Suitable habitat not found at the project site.
Northern California legless lizard *(Anniella pulchra)*	--/SSC	Sandy or loose loamy soils under sparse vegetation, moist soils. Anniella pulchra is traditionally split into two subspecies: *A. pulchra pulchra* (silvery legless lizard) and *A. pulchra nigra* (black legless lizard), but these subspecies are typically no longer recognized.	Unlikely. Suitable habitat not found at the project site.
Ohlone tiger beetle *(Cicindela ohlone)*	FE/--	Remnant native grasslands in Santa Cruz County. Substrate is poorly drained clay or sandy clay soil over bedrock of Santa Cruz mudstone.	Unlikely. Suitable habitat not found at the project site.
Pallid bat *(Antrozous pallidus)*	--/SSC	Deserts, grasslands, scrublands, woodlands, and forests. Most common in open, dry habitats with rocky areas for roosting. Roosts must protect bats from high temperatures.	Low Potential. Species known to occur in project vicinity.

Species	Status (Federal/State)	Suitable Habitat Description	Potential to Occur on Project Site
San Francisco dusky-footed woodrat *(Neotoma fuscipes annectens)*	--/SSC	Forest habitats of moderate canopy and moderate to dense understory. Constructs nest of shredded grass, leaves, and other materials.	Unlikely. Marginally suitable habitat occurs on eastern edge of project site along Watsonville Slough, however current plans will not encroach into that area.
Santa Cruz black salamander *(Aneides flavipunctatus niger)*	--/SSC	Mixed deciduous and coniferous woodlands and coastal grasslands in San Mateo, Santa Cruz, and Santa Clara Counties. Adults found under rocks, talus, and damp woody debris.	Unlikely. Suitable habitat not found at the project site.
Santa Cruz long-toed salamander *(Ambystoma macrodactylum croceum)*	FE/SE,FP	Wet meadows near sea level in a few restricted locales in Santa Cruz and Monterey Counties. Aquatic larvae prefer shallow (<12 inches) water; use clumps of vegetation or debris for cover. Adults use mammal burrows.	Unlikely. Suitable habitat not found at the project site.
Short-eared owl *(Asio flammeus)*	--/SSC	(Nesting) Found in swamp lands, both fresh and salt; lowland meadows; irrigated alfalfa fields. Tule patches/tall grass needed for nesting/daytime seclusion. Nests on dry ground in depression concealed in vegetation.	Low Potential. Species known to occur in project vicinity.
Smith's blue butterfly *(Euphilotes enoptes smithi)*	FE/--	Coastal dunes and coastal sage scrub plant communities. Host plants include *Eriogonum latifolium* and *E. parvifolium* for larval and adult stages.	Unlikely. Suitable habitat not found at the project site.
Steelhead *(Oncorhynchus mykiss irideus)*	FT/--	Coastal stream with clean spawning gravel. Requires cool water and pools. Needs migratory access between natal stream and ocean.	Unlikely. Suitable habitat not found at the project site.
Tidewater goby *(Eucyclogobius newberryi)*	FE/SSC	Brackish water habitats, found in shallow lagoons and lower stream reaches, still but not stagnant water with high oxygen levels.	Unlikely. Suitable habitat not found at the project site.
Townsend's big-eared bat *(Corynorhinus townsendii)*	--/SSC	Inhabits a wide variety of habitats. Most common in mesic sites. Roosts in the open, hanging from walls and ceilings. Roosting sites limiting. Extremely sensitive to human disturbance.	Low Potential. Species known to occur in project vicinity.
Tricolored blackbird *(Agelaius tricolor)*	--/SE	Areas adjacent to open water with protected nesting substrate, which typically consists of dense, emergent freshwater marsh vegetation.	Moderate Potential. Species known to occur within 1 mile of the project site.
Western pond turtle *(Emys marmorata)*	--/SSC	Ponds, marshes, rivers, streams, and irrigation ditches with aquatic vegetation. Needs basking sites (such as rocks or partially submerged logs) and suitable upland habitat for egg-laying (sandy banks or grassy open fields).	Moderate Potential. Species known to occur within 1 mile of the project site.
Western snowy plover *(Charadrius alexandrinus nivosus)*	FT/SSC	Sandy beaches, salt pond levees, shores of large alkali lakes; sandy, gravelly, or friable soils for nesting.	Unlikely. Suitable habitat not found at the project site.

Species	Status (Federal/State)	Suitable Habitat Description	Potential to Occur on Project Site
White-tailed kite *(Elanus leucurus)*	--/SFP	Rolling foothills and valley margins with scattered oaks, and river bottomlands or marshes next to deciduous woodlands. Open grasslands, meadows, or marshes for foraging close to isolated, dense-topped trees for nesting and perching.	Unlikely. Suitable habitat not found at the project site.
Yellow rail *(Corturnicops noveboracensis)*	--/SSC	Summer resident in eastern Sierra Nevadas, prefers freshwater marshlands.	Unlikely. Suitable habitat not found at the project site.
Zayante band-winged grasshopper *(Trimerotropis infantilis)*	FE/--	Isolated sandstone deposits in the Santa Cruz Mountains, Zayante Hills ecosystem.	Unlikely. Suitable habitat not found at the project site.

SOURCE: CDFW 2021

NOTE: Status Codes:

Federal (USFWS)

FE: Listed as Endangered under the Federal Endangered Species Act.

FT: Listed as Threatened under the Federal Endangered Species Act.

FC: A Candidate for listing as Threatened or Endangered under the Federal Endangered Species Act.

FSC: Species of Special Concern.

FD: Delisted under the Federal Endangered Species Act.

State (CDFW)

SE: Listed as Endangered under the California Endangered Species Act.

ST: Listed as Threatened under the California Endangered Species Act.

SC: A Candidate for listing as Threatened or Endangered under the California Endangered Species Act.

SSC: Species of Special Concern.

SFP: Fully Protected species under the California Fish and Game Code.

WL: Watch List. Taxa that were previously designated as "Species of Special Concern" but no longer merit that status, or which do not yet meet SSC criteria, but for which there is concern and a need for additional information to clarify status.



TREE DISPOSITION NOTES

1. PRIOR TO ANY DEMOLITION WORK, CONTRACTOR SHALL PROTECT ALL EXISTING PLANT MATERIAL NOT SCHEDULED FOR REMOVAL BY INSTALLING TEMPORARY 4 FOOT HIGH "BLAZE ORANGE" CONSTRUCTION SAFETY FENCING AT THE DRIP LINE OR PERIMETER. THE FENCING SHALL BE SECURED WITH DRIVEN METAL STAKES. ALL TREE PROTECTION WORK SHALL BE SUBJECT TO THE DISCRETION OF THE OWNER'S REPRESENTATIVE.
2. DEMOLITION SHALL INCLUDE THE REMOVAL OF ITEM AND ANY FOUNDATION OR STRUCTURAL SUPPORT RELATED TO ITEM. FOR PLANT MATERIAL, THIS SHALL INCLUDE STUMPS AND ROOTS OVER 2 INCHES IN DIAMETER. DISPOSAL SHALL BE OFF-SITE IN A LEGAL MANNER ACCEPTABLE TO THE OWNER'S REPRESENTATIVE AND IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.
3. REFER TO SPECIFICATIONS FOR ADDITIONAL CLEARING, GRUBBING, TOPSOIL STOCKPILING AND OTHER PERTINENT INFORMATION.
4. PLANT COUNTS SHOWN ARE FOR BIDDING REFERENCE ONLY. CONTRACTOR SHALL SUPPLY ALL PLANTS REQUIRED TO FULFILL DESIGN INTENT AS SHOWN.
5. CONTRACTOR SHALL PROTECT AND MAINTAIN ALL PLANT MATERIAL FROM TIME OF DELIVERY TO TIME OF FINAL ACCEPTANCE. OWNER SHALL NOT BE RESPONSIBLE FOR LOSSES DUE TO VANDALISM, THEFT OR SEVERE WEATHER.
6. CONTRACTOR SHALL PLACE PLANT MATERIALS SO THEY DO NOT INTERFERE WITH IRRIGATION SYSTEM OR INHIBIT REQUIRED COVERAGE. PLANT LOCATIONS MAY BE ADJUSTED AS LONG AS DESIGN INTENT IS NOT COMPROMISED. CONTRACTOR SHALL SET OUT PLANT MATERIAL AS PER PLAN AND RECEIVE ACCEPTANCE FROM OWNER'S REPRESENTATIVE WITH RESPECT TO PLANT HEALTH AND LOCATION PRIOR TO INSTALLATION. CONTRACTOR SHALL GIVE MINIMUM 2 WORKING DAYS NOTICE FOR OBSERVATION AND SHALL HAVE ALL PLANT MATERIAL IN SPECIFIED LOCATIONS FOR REVIEW AT ONE TIME. CONTRACTOR SHALL REPLACE ANY MATERIAL AS REQUESTED BY OWNER'S REPRESENTATIVE.
7. ALL NON-TURF PLANTING AREAS SHALL RECEIVE A 3" LAYER OF BARK MULCH TOP DRESS (UNLESS NOTED OTHERWISE). REFER TO SPECIFICATIONS.
8. WHEN WORK HAS TO OCCUR UNDER THE DRIPLINE OF EXISTING TREES NOT SCHEDULED FOR REMOVAL, THE CONTRACTOR SHALL USE ALL POSSIBLE CARE TO AVOID INJURY TO THE TREES AND TREE ROOTS. GRADE IN LINES RADIAL TO THE EXISTING TREES RATHER THAN TANGENTIAL. ALL PARTIAL CUTS OR TEARS THROUGH ROOTS TWO INCHES IN DIAMETER AND LARGER SHALL BE CUT CLEAN. TRENCHES ADJACENT TO TREES SHALL BE FILLED WITHIN 24 HOURS AFTER EXCAVATION, BUT WHERE THIS IS NOT POSSIBLE, THE SIDE OF THE TRENCH ADJACENT TO THE TREE, AND ANY EXPOSED ROOTS SHALL BE KEPT SHADED AND MOIST WITH DAMPENED BURLAP OR CANVAS.
9. ALL SHRUB AND TREE AREA SHALL RECEIVE A WEED FABRIC LAYER. INSTALL WITH STAPLES, 3" OVERLAP AND COVER WITH MULCH.
10. ALL TURF, MULCH AND PLANTERS TO RECEIVE SOIL AMENDMENTS AND SOIL PREPARATION PER SPECIFICATIONS UNLESS OTHERWISE NOTED.
11. CONTRACTOR SHALL PROVIDE JUTE NETTING IN THE ENTIRE PLANTING AREAS. STAKE JUTE NETTING 36" ON CENTER.

PLANTING LEGEND

SYM	QTY	SIZE	BOTANICAL/COMMON NAME	WUCOLS	SPACING/ COMMENTS	DTL REF.
TREES						
	47	15 GAL.	CERCIS OCCIDENTALIS WESTERN REDBUD	L/VL	AS SHOWN	
	7	15 GAL.	CHILOPSIS LINEARIS DESERT WILLOW	L/VL	AS SHOWN	
	36	15 GAL.	NYSSA SYLVATICA 'HAYMEN RED' BLACK GUM	M	AS SHOWN	
	55	15 GAL.	QUERCUS AGRIFOLIA COAST LIVE OAK	L/VL	AS SHOWN	
	10	15 GAL.	QUERCUS SHUMARDII SOUTHERN RED OAK	M	AS SHOWN	
	8	15 GAL.	QUERCUS TOMENTELLA ISLAND OAK	L	AS SHOWN	
	27	15 GAL.	SAMBUCUS NIGRA SSP. CAERULEA BLUE ELDERBERRY	L/VL	AS SHOWN	
	5	15 GAL.	THUJA PLICATA 'EMERALD CONE' WESTERN RED CEDAR	M	AS SHOWN	
	26	15 GAL.	TRISTANIA CONFERTA BRUSH BOX	M	AS SHOWN	
	12	15 GAL.	ZELKOVA SERRATA 'GREEN VASE' JANPANESE ZELKOVA	M	AS SHOWN	

LIMIT OF WORK

TREE DISPOSITION SCHEDULE

CATALOG	COUNT
EXISTING TREE ONSITE	369
EXISTING DEAD TREE ONSITE	4
STUMP ONSITE	7
EXISTING TREE TO BE REMOVED	67
STUMP TO BE REMOVED	6
EXISTING TREE TO REMAIN	302
NEW TREE TO BE PROPOSED	235
TOTAL TREE REMAIN & PROPOSED ONSITE	537
TOTAL NET GAIN TREES	168

NORTH

0 25' 50' 100' 150'

REGISTERED LANDSCAPE ARCHITECT
DEREK MCKEE
No. 4148
Signature
EXPIRATION DATE: DEC. 2022
STATE OF CALIFORNIA

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
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CITY OF WATSONVILLE, CALIFORNIA
PUBLIC WORKS, ENGINEERING DEPARTMENT

RAMSAY PARK RENAISSANCE PROJECT

TREE PROPOSAL PLAN

Approved by _____ Date _____
MARIA ESTHER CARRANZA RODRIGUEZ

Designed by TY | Job No. 2106300 | SHEET L4.1
Drawn by DL
Checked by TY/DM | Scale 1"=50'-0" | X of XX

VERDE PROJECT NO. 2106300

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RAMSAY PARK IMPROVEMENTS, CITY OF WATSONVILLE ENVIRONMENTAL REPORT - 02/03/2022

DRAWING NAME: Y:\Projects-SC\2021\2106300 - Watsonville Ramsay Park Improvements\CAD_PLT.dwg
PLOT DATE: 02-03-22 PLOTTED BY: station104

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4

Preliminary Noise Assessment

D

APPENDIX

wjv acoustics

February 10, 2022

Teri Wissler Adam
Senior Principal
EMC PLANNING GROUP INC.
301 Lighthouse Avenue, Suite C
Monterey, California 93940

RE: PRELIMINARY NOISE ASSESSEMENT, RAMSAY PARK RENAISSANCE PROJECT, WATSONVILLE, CALIFORNIA

Dear Ms. Wissler Adam:

As requested, WJV Acoustics, Inc. (WJVA) is providing this letter summarizing findings in regards to noise levels that could occur as a result of the addition of sports field lighting and spectator seating at Ramsay Park, which would result in new nighttime noise-producing activities at the project site. This letter also provides the City of Watsonville noise standards and provides a discussion of noise impacts that might result at existing sensitive receptor locations (residential land uses). Below is a summary of the applicable noise level standards and initial findings of potential noise impacts.

PROJECT UNDERSTANDING-

The City of Watsonville proposes various park improvements at the existing Ramsay Park facility, referred to as "Ramsay Park Renaissance Project". The project would include the addition of field lighting and terraced concrete spectator seating at existing sports fields, located along the northern portion of the park, adjacent to Main Street (State Route 152). There are existing residential land uses located northwest of the project site along Longview Drive (approximately 400 feet) and south of the site near Harkins Slough (approximately 875 feet). This letter of findings addresses potential noise impacts to these residential land uses that may result from the addition of evening/nighttime sporting activities at the lighted fields. The project applicant has provided an estimate of the maximum number of spectators to be approximately 150 and has stated that activities in the illuminated sports fields would conclude by 11:00 p.m.

APPLICABLE NOISE STANDARDS AND COMPATABILITY CRITERIA-

General Plan

The City of Watsonville 2005 General Plan (adopted May 24, 1994) establishes noise compatibility standards for the development of new noise sources and sensitive receivers. Section 13.0 of the General Plan (Public Hazards) establishes noise level standards in terms of the Community Noise Equivalent Level (CNEL). The CNEL represents the average equivalent sound level during a 24-hour day, obtained after addition of approximately five decibels to sound levels in the evening from 7:00 p.m. to 10:00 p.m. and ten decibels to sound levels in the night from 10:00 p.m. to 7:00 a.m. The General Plan establishes an exterior noise level standard of 60 dB CNEL and an interior noise level standard of 45 dB CNEL for noise-sensitive (residential) land uses.

Santa Cruz County General Plan

Neither the City of Watsonville General Plan or the City's Municipal Code provide noise level standards that directly apply to stationary (non-transportation) noise sources. Santa Cruz County does provide stationary noise standards that could be reasonably applied to the project. Table I below provides the Santa Cruz County noise standards for stationary noise sources. It should be noted, the Santa Cruz County noise standards state that the standards provided below in Table I can be raised when existing ambient noise levels already exceed the allowable levels.

Table 1
Maximum Allowable Noise
Exposure Stationary Noise

	Daytime[5] (7 AM to 10 PM)	Nighttime[2,5] (10 PM to 7 AM)
Hourly Leq – average hourly noise level, dB [3]	50	45
Maximum level, dB [3]	70	65
Maximum level dB – Impulsive Noise [4]	65	60

dB = decibel

(1) As determined at the property line of the receiving land use. When determining the effectiveness of noise mitigation measures, the standards may be applied on the receptor side of noise barriers or other property line noise mitigation measures

(2) Applies only where the receiving land use operate or is occupied during nighttime hours

(3) Sound level measurements shall be made with "slow" meter response

(4) Sound level measurements shall be made with "fast" meter response

(5) Allowable levels shall be raised to the ambient noise levels where the ambient levels exceed the allowable levels. Allowable levels shall be reduced 5 dB if the ambient hourly Leq is at least 10 dB lower than the allowable level.

PROJECT SITE NOISE EXPOSURE-

In order to estimate existing ambient noise levels in the project vicinity, WJVA utilized the Federal Highway Administration (FHWA) Highway Traffic Noise Prediction Model (FHWA-RD-77-108). The FHWA Model is a standard analytical method used for roadway traffic noise calculations. The model is based upon reference energy emission levels for automobiles, medium trucks (2 axles) and heavy trucks (3 or more axles), with consideration given to vehicle volume, speed, roadway configuration, distance to the receiver, and the acoustical characteristics of the site. The FHWA Model was developed to predict hourly L_{eq} values for free-flowing traffic conditions, and is generally considered to be accurate within ±1.5 dB.

WJVA obtained hourly traffic counts along Main Street (SR 152) adjacent to the project site, from direct correspondence with Caltrans staff (Julie M. Gonzalez, Senior Transportation Engineer). WJVA applied the lowest hourly traffic counts during the proposed hours of sports activities, to conservatively estimate existing ambient noise levels at nearby residential land uses, during proposed hours of activities at the sports fields. It was determined that the lowest traffic volumes occurred between the hour of 10:00 p.m. to 11:00 p.m. (575 vehicles per hour, 7-day average, conducted May 2017). Using these hourly traffic counts, WJVA calculated existing ambient noise levels at the nearby residential land uses located along Longview Drive, to be approximately 56 dB L_{eq}, between the hours of 10:00 p.m. and 11:00 p.m.

POTENTIAL PROJECT-RELATED NOISE LEVELS-

Noise levels associated with youth and recreational level sporting events are generally limited to those associated with human voices, typically clapping and cheering (screaming) from spectators. WJVA has conducted reference noise level measurements at numerous such sporting events for previous projects. WVJA has reviewed noise levels previously measured at sporting fields during comparable events, to estimate noise levels that occur with the proposed project.

Noise levels associated with spectators and sporting activities of this magnitude typically produce noise levels in the range of approximately 45 to 55 dB L_{eq} at a distance of 100 feet. The closest residential land uses to the project site are located a distance of approximately 400 feet north of the soccer fields. At this distance, noise levels associated with the sport activities (clapping, cheering, yelling of spectators and athletes) would be expected to be approximately 33-43 dB L_{eq}. Additionally, sports-field related noise levels would be expected to be in the range of approximately 25-35 dB L_{eq} at the residential land uses south of the project, along Harkins Slough Road. Such levels would be below the Santa Cruz County daytime (50 dB L_{eq}) or nighttime (45 dB L_{eq}) noise level standards for stationary noise sources (City of Watsonville does not provide noise standards for stationary noise sources).

Based on the above-described assessment of hourly traffic noise levels at the residential land uses located along Longview Drive (approximately 56 dB L_{eq} between the hours of 10:00 p.m. to 11:00 p.m.), noise levels associated with proposed nighttime activities Ramsay Park would not be expected to exceed existing (without project) noise levels in the vicinity of the residences. It can therefore be reasonably assumed that mitigation measures would not be required for compliance with local noise standards and that project implementation would not result in noise levels exceeding existing ambient noise levels in the project vicinity.

Please contact me at 559-627-4923 or walter@wjvacoustics.com if there are questions or additional information is required.

Sincerely,

WJV ACOUSTICS, INC.



Walter J. Van Groningen
President