Full Buildout Project Plans

A

APPENDIX

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HIPPO HARVEST - 2370 SHORE ROAD, HOLLISTER, SAN BENITO COUNTY, CALIFORNIA

BALIAN ARCHITECTS

HIPPO HARVEST - 2370 SHORE ROAD, HOLLISTER, CA

ISSUED FOR BIDDING PURPOSES ONLY - NOT FOR CONSTRUCTION
REF. PLAN CHECK # BD23-0456 JUNE 27, 2025

A0.00

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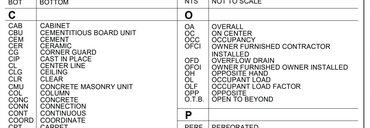
BID SET #1 - ADDENDUM 2

ABBREVIATIONS

A/C	AIR CONDITIONING
AC	ASPHALT CONCRETE
ACT	ACOUSTICAL CEILING TILE
ADA	AMERICANS WITH DISABILITIES ACT
ADJ	ADJACENT
ADJ	ADJUSTABLE
AFF	ABOVE FINISH FLOOR
AL	ALUMINUM
ALT	ALTERNATE
ANG	AVERAGE NATURAL GRADE
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
AUTO	AUTOMATIC
B	
BD	BOARD
BKG	BACKING
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM
BOT	BOTTOM
C	
CAB	CABINET
CBU	CEMENTITIOUS BOARD UNIT
CEM	CEMENT
CER	CERAMIC
CG	CORNER GUARD
CIP	CAST IN PLACE
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUOUS
COORD	COORDINATE
CPT	CARPET
CR	CARD READER
CT	CERAMIC TILE
CTSK	COUNTERSUNK
CW	CURTAIN WALL
D	
DBL	DOUBLE
DEMO	DEMOLITION
DET	DETAIL
DIA	DIAMETER
DIAG	DIAGONAL
DIM /S	DIMENSION /S
DN	DOWN
DSA	DIVISION OF STATE ARCHITECT
DWG /S	DRAWING /S
E	
(E)	EXISTING
E	EAST
EA	EACH
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMBED	EMBED MENT
EPS	EXPANDED POLYSTYRENE
EQ	EQUAL
EQUIP	EQUIPMENT
ETC	ETCETERA
EWC	ELECTRIC WATER COOLER
EXT	EXTERIOR
E.F.O.W.	EXTERIOR FACE OF WALL
F	
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FARB	FIRE ALARM PULL BOX
FASA	FIRE ALARM STROBE/SIAMESE
FDC	FLOOR DRAIN OR FIRE DAMPER
FDC	FIRE DEPARTMENT CONNECTION
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FIN	FINISH
FL	FLOOR
FO	FACE OF
FOC	FACE OF CONCRETE
FOE	FACE OF EQUIPMENT
FOF	FACE OF FINISH
FOG	FACE OF GLASS
FOS	FACE OF STRUCTURE
FR	FIRE RATED
FRT	FIRE RETARDANT TREATED
FSD	FIRE SMOKE DAMPER
FT	FOOT OR FEET
G	
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GEN	GENERATOR
GFRC	GLASS FIBER REINFORCED CONCRETE
GFRG	GLASS FIBER REINFORCED GYPSUM
GI	GALVANIZED IRON
GL	GLASS
GLULAM	GLUE LAMINATED
GSM	GALVANIZED SHEET METAL
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
H	
HB	HOSE BIB
HC	HOLLOW CORE
HDR	HEADER
HDWR	HARDWARE
HGT	HEIGHT
HM	HOLLOW METAL
HO	HOLD OPEN /MAGNETIC
HP	HIGH POINT
HR	HOUR
HTR	HEATER
HVAC	HEATING, VENTILATING, AIR CONDITIONING
I	
ID	INTERIOR DESIGN
IN	INCH
INCL	INCLUDE
INSUL	INSULATION /ING
INT	INTERIOR
J	
JAN	JANITOR
JST	JOIST
L	
LAB	LABORATORY
LAM	LAMINATE /D
LAV	LAVATORY
LB	POUND
LOC	LOCATION
LP	LOW POINT
LT	LIGHT
LTD	LIMITED
LW	LIGHT WEIGHT

M	
MACH	MACHINE
MAT	MATERIAL
MAX	MAXIMUM
MDF	MEDIUM-DENSITY FIBERBOARD
MECH	MECHANICAL
MED	MEDIUM
MEPS	MOLDED EXPANDED POLYSTYRENE
MEZZ	MEZZANINE
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM OR MINUTE
MISC	MISCELLANEOUS
MTL	METAL
MUL	MULLION
N	
(N)	NEW
N	NORTH
NIC	NOT IN CONTRACT
NO	NUMBER
NR	NON-RATED
NTS	NOT TO SCALE
O	
OA	OVERALL
OC	ON CENTER
OCC	OCCUPANCY
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFD	OVERFLOW DRAIN
OFOI	OWNER FURNISHED OWNER INSTALLED
OH	OPPOSITE HAND
OL	OCCUPANT LOAD
OL F	OCCUPANT LOAD FACTOR
OPP	OPPOSITE
O.T.B.	OPEN TO BEYOND
P	
PERF	PERFORATED
PERP	PERPENDICULAR
PL	PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLBG	PLUMBING
PROJ	PROJECTION
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PAINT
PTR	PRESSURE TREATED
PVC	POLYVINYL CHLORIDE
Q	
QT	QUARRY TILE
QTY	QUANTITY
R	
RAD	RADIUS
RB	RESILIENT BASE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REF	REFERENCE
REQ	REQUIRED
RESIL	RESILIENT
REV	REVISION
RM	ROOM
RO	ROUGH OPENING
S	
SAF	SELF ADHERED FLASHING
SAFS	SLOTTED ADJUSTABLE FRAMING SYSTEM
SC	SOLID CORE
SCD	SEE CIVIL DRAWINGS OR
SCHD	SCHEDULED
SD	SMOKE DETECTOR
SDFA	COMBINATION SMOKE DETECTOR, AUDIBLE AND VISUAL ALARM.
SED	SEE ELECTRICAL DRAWINGS
SF	SQUARE FOOT OR FEET
SHTG	SHEATHING
SIM	SIMILAR
SJ	SEISMIC JOINT
SLD	SEE LANDSCAPE DRAWINGS
SLTD	SEE LIGHTING DRAWINGS
SM	SHEET METAL
SMD	SEE MECHANICAL DRAWINGS
SOG	SLAB ON GRADE
SPD	SEE PLUMBING DRAWINGS
SPECS	SPECIFICATION /S
SQ	SQUARE
SSD	SEE STRUCTURAL DRAWINGS
SSM	SOLID SURFACING MATERIAL
SS	STAINLESS STEEL
STC	SOUND TRANSMISSION COEFFICIENT
STD	STANDARD
STL	STEEL
STS	SHEET METAL TAPPING SCREW
SV	SHEET VINYL
SY	SQUARE YARD
SYM	SYMMETRICAL
T	
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TEL	TELEPHONE
TEMP	TEMPERATURE
THERM	THERMOSTAT OR THERMAL
THK	THICK
TO	TOP OF
TOC	TOP OF CONCRETE
TOP	TOP OF PARAPET
TOS	TOP OF STRUCTURE
TOW	TOP OF WALL
TPO	THERMOPLASTIC MEMBRANE
TRANS	TRANSFORMER
TRD	TREAD
TV	TELEVISION
TYP	TYPICAL
U	
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
V	
VCT	VINYL COMPOSITION TILE
VG	VERTICAL GRAIN
VIF	VERIFY IN FIELD
VTR	VENT THROUGH ROOF
VWC	VINYL WALL COVERING
W	
W	WEST
W/	WITH
WC	WATER CLOSET
WD	WOOD
WO	WHERE OCCURS
W/O	WITHOUT
WP	WATERPROOF
WPT	WORKING POINT
WRB	WATER RESISTANT BARRIER
WRGB	WATER RESISTANT GYPSUM BOARD
WT	WEIGHT

SHEET AND DETAIL NUMBERING SYSTEM



LEGEND - MATERIALS

NOT ALL MAY BE USED

ALUMINUM
BATT INSULATION
CARPET
CEMENTITIOUS BACKER UNIT (CBU)
CONCRETE MASONRY UNIT (CMU)
CONCRETE
COVER BOARD / PROTECTION BOARD
EARTH
EXTERIOR PLASTER AND LATH
EXTERIOR SHEATHING
GYPSUM BOARD
WATER RESISTANT GYPSUM BOARD (WRGB)
LANDSCAPE
MEDIUM DENSITY FIBERBOARD (MDF)
PLYWOOD
RIGID INSULATION (POLYISO / POLYSTYRENE)
STEEL
STONE, MARBLE, TERRAZZO
WOOD FRAMING INTERRUPTED MEMBER
WOOD FRAMING THROUGH MEMBER

LEGEND - SYMBOLS

NOT ALL MAY BE USED

ASSEMBLY TYPE — SE 0 / FC 0 — SE = SLAB EDGE, F= FLOOR CEILING — RC 0 / W 0 — R = ROOF CEILING, W = WALL

BUILDING / SECTION — XX / AX.XX / SIM — DETAIL NUMBER, SHEET NUMBER

CEILING TAGS — 11' - 0" / 1I / 1i — CEILING HEIGHT, MATERIAL / SUBSTRATE, FINISH

CENTER LINE MARK — ℄

DATUM REFERENCE — Name / Elevation

DETAIL REFERENCE — 2 / AX.XX / SIM — DETAIL NUMBER, SHEET NUMBER

DOOR TYPE — TYPE: X / B3-09 / 2' - 0" / 1Hr / HW: X — DOOR NUMBER, FIRE RATING (IN MINUTES), HARDWARE GROUP

DOOR TYPE / DOOR WIDTH

EXTERIOR ELEVATION — X / AX.XX — ELEV. DESIGNATION, SHEET NUMBER

FURNITURE / FIXTURE TAG — 1i — ITEM ID

FINISH MATERIAL TAG — ? — FINISH ID

GRID TAG / GRID LINE — 1 / A

INTERIOR ELEVATION — 1 / 4 / X / AX.XX / 2 / 3 — ELEV. DESIGNATION, SHEET NUMBER, DETAIL NUMBER

KEYNOTE — ?

MATCH LINE — MATCHLINE

NORTH ARROW — TRUE N. / PROJ. N.

ROOM TAG — Room name / RM# 101 / 150 SF — ROOM NAME, ROOM NUMBER, ROOM AREA

REVISION — REVISION NUMBER, REVISION CLOUD

SIGNAGE TAG — X1 — SIGNAGE SYMBOL, SIGNAGE ID

SITE PROPERTY LINE — PL

SITE SETBACK LINE

SMOKE DETECTOR CEILING MOUNTED — SD

SPECIALTY EQUIPMENT TAG — FE

WALL TYPE — F-B1-0

WALL SECTION CUT: — 1 / A101 / SIM — DETAIL NUMBER, SHEET NUMBER

WINDOW TYPE — 1i

LEGEND - OCCUPANCY SYMBOLS

FIRE ALARM HORN/STROBE — FA SA — MIN 6'-6" A.F.F. IN NON-OBSTRUCTED AREAS

COMMON PATH OF TRAVEL — 80 — COMMON PATH OF EGRESS TRAVEL DISTANCE, IN FEET

EXITING - LOADS — DOOR / XX / 34" / 34" — EXITING FACILITY, OCCUPANT LOAD, REQUIRED WIDTH DOOR: .2"/OCC., 36" MIN STAIR: .3"/OCC., 44" MIN, WIDTH PROVIDED

EXITING OCCUPANTS — NUMBER OF OCCUPANTS 40 / NAME EXIT 4 / 36" WIDTH PROVIDED / 34" WIDTH REQUIRED

EXIT SIGNAGE INSTALL PER 2022 CBC 1013 — EXIT SIGN (FRONT), EXIT SIGN (SIDE)

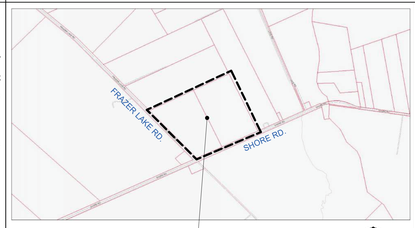
EXIST ACCESS TRAVEL DISTANCE — 60' — TRAVEL DISTANCE IN FEET, REFER TO MAXIMUM EXIT ACCESS TRAVEL DISTANCE PER CBC 1017.2

FIRE ALARM PULL BOX — F — INSTALL PER 2022 CBC 907.4.2.2. 42"-48" A.F.F. TO HIGHTEST POINT OF HANDLE

OCCUPANCY TAG — Room Name / RM# 101 / S1 / 150 SF / OLF 150 / OL 1 — ROOM NUMBER, USE/OCC. TYPE, SQUARE FOOTAGE, OCCUPANT LOAD FACTOR

PORTABLE FIRE EXTINGUISHER — INSTALL PER 2022 CBC 906.1

PLOT PLAN



VICINITY MAP



FIRE PROTECTION SYSTEM & LIFE SAFETY SUMMARY

FIRE PROTECTION SYSTEM & RELIEFE SAFETY FEATURES	1. AUTOMATIC SPRINKLERS YES 2. FIRE EXTINGUISHERS YES 3. FIRE ALARM SYSTEM YES
SPRINKLER SYSTEM	**CBC 903** AUTOMATIC SPRINKLER SYSTEMS 1. OCCUPANCY GROUP: F-1 2. 903.2.4: REQUIRED: YES
STANDPIPE SYSTEM	**CBC 905** STANDPIPE SYSTEMS 1. OCCUPANCY GROUP: F-1 2. 905.3.? REQUIRED: NO
FIRE EXTINGUISHERS	**CBC 906** PORTABLE FIRE EXTINGUISHERS 1. 906.1.1 - FARM = YES 2. 5706.2.7 SIZE & TYPE OF EXTINGUISHER = 20-B:C 3. OFFICE OCCUPANCY = 2-A
FIRE ALARM SYSTEM	**CBC 907** FIRE ALARM AND DETECTION SYSTEMS OCCUPANCY GROUP: F-1 1. 907.2.4 - REQUIRED: NO

DEFERRED APPROVALS AND SEPARATE PERMITS

DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE JURISDICTION.

THE FOLLOWING ITEMS SHALL BE SUBMITTED TO THE PROJECT ARCHITECTS/ OR ENGINEER FOR REVIEW AND COORDINATION; FOLLOWING THE COMPLETION OF PROJECT ARCHITECT/ ENGINEER REVIEW AND COORDINATION, A SUBMITTAL TO THE JURISDICTION SHALL BE MADE FOR APPROVAL.

LANDSCAPING & IRRIGATION

FIRE WATER STORAGE TANK

FIRE PROTECTION SPRINKLER SYSTEM:
SPRINKLER MAINS AND FIRE DEPARTMENT CONNECTIONS.
STANDPIP SYSTEMS (TEMPORARY AND PERMANENT)
FIRE SPRINKLER SYSTEM IN CONFORMANCE WITH NFPA 13. ALL CONCEALED SPACES TO BE SPRINKLERED AND RISER TO BE LOCATED INSIDE BUILDING. FDC SHALL BE AT A LOCATION APPROVED BY THE LOCAL FIRE DEPARMENT.

FIRE ALARM SYSTEMS & SMOKE DETECTORS (MANUAL AND AUTOMATIC:
MONITORING SYSTEM FOR FIRE ALARM AND SPRINKLERS
FIRE ALARM SYSTEM REQUIRES A SEPARATE PLAN REVIEW AND PERMIT FROM THE LOCAL FIRE DEPARMENT.

UNDERGROUND FIRE SERVICE: UNDERGROUND FIRE SERVICE REQUIRES A SEPARATE "UNDERGROUND FIRE SERVICE PERMIT". SHOP DRAWINGS FROM A QUALIFIED LICENSED UNDERGROUND CONTRACTOR MUST BE SUBMITTED AT TIME OF APPLICATION.

SPECIAL INSPECTION REQUIRED

STRUCTURAL WELDING

STRUCTURAL CONCRETE

STRUCTURAL MASONRY

GRADING, EXCAVATION AND FILLING

COLD-FORMED STEEL FRAMING

MECH AND ELEC COMPONENTS

GEOTECHNICAL INSPECTION IN ACCORDANCE WITH GEOTECHNICAL REPORT

OSHA COMPLIANT PROVISIONS FOR BUILDING MAINTENANCE

BUILDING UP TO 4 STORIES AND <48' HEIGHT: _X__ BUILDING >48' HEIGHT:_____

OSHA §3291(f)(1) EXCEPTION 2: ROOF TIE-BACKS ARE NOT REQUIRED ON BUILDINGS UP TO 4 STORIES AND 48 FEET IN HEIGHT WHEN BUILDING MAINTENANCE CAN BE ACCOMPLISHED USING EXTENSION TOOLS OR APPROVED GROUND EQUIPMENT

PROJECT INFORMATION

PROJECT ADDRESS:	2370 SHORE ROAD HOLLISTER CA 95023
APN:	013-050-025 & 013-050-024
LOT AREA:	80.25 ACRES OR 3,495,690 SF
LEGAL DESCRIPTION:	FRAZER LAKE & SHORE RD
ZONING:	AGRICULTURE PRODUCTIVE (AP)
EXISTING LAND USE:	AGRICULTURAL
PROPOSED USE:	AGRICULTURAL
CHANGE OF USE:	NO
WATER SERVICE:	EXISTING WELL
SEWER SERVICE:	PRIVATE ENGINEERED SYSTEM PERMITTED BY THE STATE OF CA
LOCAL FIRE SEVERITY ZONE:	NON-WILDLAND/NON-URBAN PER SBC GIS
FLOOD HAZARD ZONE:	ZONE X PER FEMA MAP 06069C0075D
SEISMIC HAZARD ZONE:	ALQUIST-PRIOLO ZONE PER CA SPECIAL STUDIES ZONE MAP
TYPE OF BUILDING:	LOW RISE
TYPE OF CONSTRUCTION:	TYPE II-B
HEIGHT IN FEET:	30' TO TOP OF RIDGE
NUMBER OF LEVELS:	1
NUMBER OF SUB-LEVELS:	0
HEIGHT TO LAST OCCUPIED FLOOR:	0"
HEIGHT TO TOP OF ROOF STRUCTURE:	30'
NUMBER OF PARKING SPACES:	26
PROPERTY OWNER:	JOHN DEAN BUSCH
OWNER'S ADDRESS:	2370 SHORE ROAD HOLLISTER CA 95023
TENANT/OPERATOR:	HIPPO HARVEST, INC.
TENANT'S ADDRESS:	3439 CLOVERDALE ROADPESCADERO, CA 94060
TENANT'S CONTACT:	KEVIN BURG
TEL:	602.510.8932
EMAIL:	kevin.burg@hippoharvest.com

PROJECT DESCRIPTION

THE PROPOSED SCOPE OF WORK HEREIN IS PHASE I OF AN ALL NEW DEVELOPMENT ON TWO ADJACENT UNDEVELOPED PARCELS CURRENTLY USED FOR AGRICULTURAL PURPOSES FOR A NEW AGRICULTURAL FACILITY.

THE SCOPE INCLUDES A SINGLE STORY, 25,920 SF (160'x162') TYPE II-B, NON-CUMBUSTILE METAL BUILDING PROCESSING AND PACKAGING FACILITY WITH ANCILARY USES WITHIN (LOBBY, CONFERENCE ROOM, OFFICES, RESTROOMS, WORKSHOP ET CETERA) AND (40) HOOP HOUSES (9.5mX45m) FOR GROWING AND HARVESTING LEAFY GREENS SUCH AS LETTUCE.

THE SITEWORK ALSO INCLUDES NEW PARKING, FLATWORK, NEW PAD MOUNTED TRANSFORMER, LANDSCAPING (SEPARATE PERMIT) NEW FIRE WATER TANKS, MONUMENT SIGN, SEPTIC SYSTEM, TRASH ENCLOSURE, FIRE ACCESS ROADWAYS AND MINOR ROW WORK INCLUDING ROADWAY CONNECTIONS AND GAS UTILITY CONNECTION. PLEASE SEE SITE PLAN.

THE PROPOSED SCOPE INCLUDES THE FOLLOWING DISCIPLINES:
- ARCHITECTURAL
- STRUCTURAL
- MECHANICAL
- ELECTRICAL
- PLUMBING
- CIVIL INCLUDING CLEARING & GRADING AND STORM WATER
- UNDERGROUND NEW FIRE SERVICE AND FIRE WATER RETENSION AND NEW PRIVATE HYDRANTS
- SPRINKLER SYSTEM
- FIRE ALARM SYSTEM

CODE SUMMARY

OCCUPANCY (CBC 306.2 & 312.1)	**BUILDING: GROUP F-1 MODERATE HAZARD** - FOOD PROCESSING **HOOP HOUSES: GROUP U** - AGRICULTURAL STRUCTURE
TYPE OF CONSTRUCTION (602.2)	TYPE II-B
ALLOWABLE AREA (506.2):	56,000 SF
BUILDING AREA	25,920 SF (PHASE 2 TOTAL BUILDING AREA = 44,800 SF)
AUTOMATIC SPRINKLERS	YES
MIXED OCCUPANCY?	YES, B (OFFICE) AND F-1 (AGRICULTURAL PROCESSING) SEPARATION NOT REQUIRED
OCCUPANT LOAD	

OCCUPANCY GROUP	OCCUPANT LOAD
B	68
F-1	97
U	580
Grand total	745

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2023

THE INTENT OF THE DRAWINGS AND SPECIFICATIONS HEREIN ARE TO CONSTRUCT REFERENCED PROJECT IN ACCORDANCE WITH THE 2022 CALIFORNIA BUILDING CODE AND CALIFORNIA CODE OF REGULATIONS TITLE 24. SHOULD ANY CONDITION DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH SAID CALIFORNIA CODES, A CONSTRUCTION CHANGE DOCUMENT DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE AGENCY HAVING JURISDICTION BEFORE PROCEEDING WITH THE WORK.

CALIFORNIA CODE OF REGULATIONS (CCR)

COUNTY: COUNTY OF SAN BENITO JURISDICTIONAL AUTHORITY

A. CALIFORNIA ADMINISTRATIVE CODE, 2022 EDITION, TITLE 24, PART 1.
B. CALIFORNIA BUILDING CODE, 2022 EDITION, TITLE 24, PART 2, BASED ON THE 2021 INTERNATIONAL BUILDING CODE INCLUDING, AMONG THE APPENDICES, APPENDIX CHAPTER C; (GROUP U-AGRICULTURAL BUILDINGS), APPENDIX CHAPTER G; (FLOOD-RESISTANT CONSTRUCTION) APPENDIX CHAPTER H; (SIGNS), APPENDIX CHAPTER I; (PATIO COVERS), AND APPENDIX CHAPTERS J; (GRADING), AS PUBLISHED BY THE INTERNATIONAL CODE COUNCIL (ICC) AS ADOPTED AND AMENDED BY THE CALIFORNIA BUILDING STANDARDS. CALIFORNIA CODE OF REGULATIONS.
C. CALIFORNIA ELECTRICAL CODE, 2022 EDITION, TITLE 24, PART 3, BASED ON THE 2020 NATIONAL ELECTRIC CODE, AS PUBLISHED BY THE NATIONAL FIRE PROTECTION ASSOCIATION, AND AS ADOPTED BY THE CALIFORNIA BUILDING STANDARDS COMMISSION IN TITLE 24 OF THE CALIFORNIA CODE OF REGULATIONS.
D. CALIFORNIA MECHANICAL CODE, 2022 EDITION, TITLE 24, PART 4, BASED ON THE 2021 UNIFORM MECHANICAL CODE AS PUBLISHED BY THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, AND AS ADOPTED BY THE CALIFORNIA BUILDING STANDARDS COMMISSION IN TITLE 24, PART 4 OF THE CALIFORNIA CODE OF REGULATIONS.
E. CALIFORNIA PLUMBING CODE, 2022 EDITION, TITLE 24, PART 5, BASED ON THE 2021 UNIFORM PLUMBING CODE AS PUBLISHED BY THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, AND AS ADOPTED BY THE CALIFORNIA BUILDING STANDARDS COMMISSION IN TITLE 24 OF THE CALIFORNIA CODE OF REGULATIONS.
F. CALIFORNIA RESIDENTIAL CODE, 2022 EDITION, TITLE 24, PART 2.5, BASED ON THE 2021 INTERNATIONAL RESIDENTIAL CODE AS PUBLISHED BY THE INTERNATIONAL CODE COUNCIL (ICC) AND AS ADOPTED AND AMENDED BY THE CALIFORNIA BUILDING STANDARDS COMMISSION IN THE CALIFORNIA BUILDING STANDARDS CODE, TITLE 24 OF THE CALIFORNIA CODE OF REGULATIONS.
G. CALIFORNIA GREEN BUILDINGS STANDARDS CODE, 2022 EDITION, TITLE 24, PART 11 (CALGREEN), LIMITED TO THE MANDATORY SECTIONS AS ADOPTED BY THE STATE OF CALIFORNIA.
H. CALIFORNIA ENERGY CODE, 2022 EDITION, TITLE 24, PART 6, INCLUDING APPENDIX.
I. CALIFORNIA HISTORICAL CODE, 2022 EDITION, TITLE 24, PART 8 INCLUDING APPENDIX.
J. CALIFORNIA EXISTING BUILDING CODE, 2022 EDITION, TITLE 24, PART 10, BASED ON THE 2021 INTERNATIONAL EXISTING BUILDING CODE AS PUBLISHED BY THE INTERNATIONAL CODE COUNCIL (ICC) AND AS ADOPTED AND AMENDED BY THE CALIFORNIA BUILDING STANDARDS COMMISSION IN THE CALIFORNIA BUILDING STANDARDS CODE, TITLE 24 OF THE CALIFORNIA CODE OF REGULATIONS.
K. CALIFORNIA REFERENCED STANDARDS CODE, 2022 EDITION, TITLE 24, PART 12, INCLUDING APPENDIX.
L. INTERNATIONAL PROPERTY MAINTENANCE CODE 2021 EDITION AS PUBLISHED BY THE INTERNATIONAL CODE COUNCIL AS A STAND-ALONE DOCUMENT.
M. UNIFORM SWIMMING POOL, SPA & HOT TUB CODE 2021 EDITION AS PUBLISHED BY IAMO AS A STAND-ALONE DOCUMENT.
N. CALIFORNIA FIRE CODE, 2022 EDITION, TITLE 24, PART 9, ADOPTED IN ITS ENTIRETY WITH THE APPENDICES AND AMENDMENTS. THE CALIFORNIA FIRE CODE, 2022 EDITION, BASED ON THE 2021 INTERNATIONAL FIRE CODE AS PUBLISHED BY THE INTERNATIONAL CODE COUNCIL (ICC) AND AS ADOPTED AND AMENDED BY THE CALIFORNIA BUILDING STANDARDS COMMISSION IN THE CALIFORNIA BUILDING STANDARDS CODE, TITLE 24 OF THE CALIFORNIA CODE OF REGULATIONS ARE ADOPTED BY REFERENCE WITH THE FOLLOWING AMENDMENTS:

1. 101.1 TITLE. THESE REGULATIONS SHALL BE KNOWN AS THE FIRE CODE FOR THE COUNTY OF SAN BENITO, HEREINAFTER REFERRED TO AS "FIRE CODE." THE CALIFORNIA FIRE CODE IS AMENDED AS SET FORTH HEREIN BY THESE LOCAL AMENDMENTS.
2. 101.2.1 APPENDICES. PROVISIONS IN ALL APPENDICES TO THE 2022 CALIFORNIA FIRE CODE ARE HEREBY ADOPTED IN THEIR ENTIRETY AND SHALL APPLY.

SEISMIC/LATERAL		CLIMATE	
RISK CATEGORY (CBC 1604.5)		CLIMATE ZONE	9b
WIND EXPOSURE		RAINFALL DESIGN	
WIND SPEED		FLOOD ZONE	ZONE X PER FEMA MAP
SEISMIC DESIGN CATEGORY (CBC 1613.2)		HIGH FIRE HAZ. ZONE (7A)	NO

OCCUPANCY CLASSIFICATION

304.1 GROUP B. BUSINESS GROUP B OCCUPANCY INCUDES, AMONG OTHERS, THE USE OF A BUILDING OR STRUCTURE, OR A PORTION THEREOF, FOR OFFICE, PROFESSIONAL OR SERVICE-TYPE TRANSACTIONS, INCLUDING STORAGE OF RECORDS AND ACCOUNTS.

TYPE OF CONSTRUCTION

602.2 TYPE II.
TYPE II CONSTRUCTION ARE THOSE TYPES OF CONSTRUCTION IN WHICH THE BUILDING ELEMENTS LISTED IN TABLE 601 ARE OF NONCOMBUSTIBLE MATERIALS, EXCEPT AS PERMITTED IN SECTION 603 AND ELSEWHERE IN THIS CODE.

SHEET NO.	SHEET NAME	JUNE 6, 2025 - BID DOCUMENTS #1	JUNE 17, 2025 - ADDENDUM 1	JUNE 27, 2025 - ADDENDUM 2	
ELECTRICAL					
E0.00	ELECTRICAL INFORMATION SHEET			•	
E1.00	ELECTRICAL SITE POWER DISTRIBUTION PLAN			•	
E1.10	ENLARGED ELECTRICAL SITE POWER DISTRIBUTION PLAN			•	
E1.20	TYPICAL 31'-6" X 148' GREENHOUSE ELECTRICAL PLAN			•	
E1.30	TYPICAL 31'-6" X 92' GREENHOUSE ELECTRICAL PLAN			•	
E2.10	BUILDING LIGHTING PLAN			•	
E3.10	BUILDING/EQUIPMENT POWER PLAN			•	
E4.10	BUILDING MECHANICAL/REFRIGERATION POWER PLAN			•	
E4.20	BUILDING ROOF ELECTRICAL PLAN			•	
E5.00	ELECTRICAL ONE-LINE DIAGRAM			•	
E5.01	ELECTRICAL ONE-LINE DIAGRAM			•	
E5.02	ELECTRICAL ONE-LINE DIAGRAM			•	
EL2.00	BUILDING INTERIOR PHOTOMETRICS			•	
13					
LANDSCAPE & IRRIGATION					
L-1	PHASE I LIGHTING & PLANTING PLAN	•	•	•	
L-2	PHASE I IRRIGATION PLAN	•	•	•	
L-3	IRRIGATION DETAILS	•	•	•	
3					
MECHANICAL					
M0.0	MECHANICAL SCHEDULES & SYMBOLS/ABBREVS	•	•	•	
M0.1	MECHANICAL SCHEDULES CONTINUED	•	•	•	
M0.2	MECHANICAL ENERGY LOADS SUMMARY	•	•	•	
M0.3	MECHANICAL NOTES & CALCULATIONS	•	•	•	
M1.0	MECHANICAL SITE PLAN	•	•	•	
M2.0	MECHANICAL FLOOR PLAN	•	•	•	
M2.02	MECHANICAL ZONE AREA & SET-POINT PLAN			•	
M2.1	MECHANICAL ROOF PLAN	•	•	•	
M2.2	MECHANICAL GREENHOUSE PLAN & EQUIPMENT SCHEDULES	•	•	•	
9					
PLUMBING					
P0.0	PLUMBING SCHEDULES & SYMBOLS/ABBREVS	•	•	•	
P0.1	PLUMBING NOTES & CALCULATIONS	•	•	•	
P1.0	PLUMBING SITE PLAN	•	•	•	
P2.0	PLUMBING FLOOR PLAN	•	•	•	
P2.1	PLUMBING ROOF PLAN	•	•	•	
P2.2	PLUMBING GREENHOUSE PLAN & EQUIPMENT SCHEDULES	•	•	•	
6					
SEPTIC SYSTEM					
OWTS 1	SITE PLAN	•	•	•	
OWTS 2	SITE PLAN ENLARGEMENT			•	
2					
STEEL BUILDING					
1 of 36	BUTLER MANUFACTURING			•	
2 of 36	BUTLER MANUFACTURING			•	
3 of 36	BUTLER MANUFACTURING			•	
4 of 36	BUTLER MANUFACTURING			•	
5 of 36	BUTLER MANUFACTURING			•	
6 of 36	BUTLER MANUFACTURING			•	
7 of 36	BUTLER MANUFACTURING			•	
8 of 36	BUTLER MANUFACTURING			•	
9 of 36	BUTLER MANUFACTURING			•	
10 of 36	BUTLER MANUFACTURING			•	
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14 of 36	BUTLER MANUFACTURING			•	
15 of 36	BUTLER MANUFACTURING			•	
16 of 36	BUTLER MANUFACTURING			•	
17 of 36	BUTLER MANUFACTURING			•	
18 of 36	BUTLER MANUFACTURING			•	
19 of 36	BUTLER MANUFACTURING			•	
20 of 36	BUTLER MANUFACTURING			•	
21 of 36	BUTLER MANUFACTURING			•	
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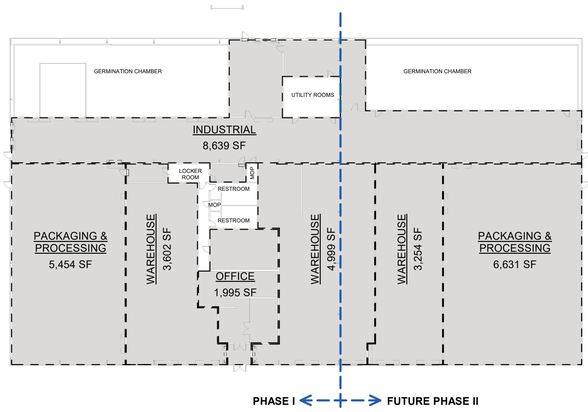
33 of 36	BUTLER MANUFACTURING			•	
34 of 36	BUTLER MANUFACTURING			•	
35 of 36	BUTLER MANUFACTURING			•	
36 of 36	BUTLER MANUFAC

TYPE OF OCCUPANCY	WATER CLOSETS (FIXTURES PER PERSON)		URINALS (FIXTURES PER PERSON)	LAVATORIES (FIXTURES PER PERSON)		BATHTUB/ SHOWER (FIXTURES PER PERSON)	DRINKING FOUNTAINS/ FACILITIES (FIXTURES PER PERSON)	OTHER
B Business occupancy (office, professional or service type transactions)-banks, vet clinics, hospitals, car wash, banks, beauty salons, ambulatory health care facilities, laundries and dry cleaning, educational institutions (above high school), or training facilities not located within school, post offices and printing shops	Male 1: 1-50 2: 51-100 3: 101-200 4: 201-400	Female 1: 1-15 2: 16-30 3: 31-50 4: 51-100 8: 101-200 11: 201-400	Male 1: 1-100 2: 101-200 3: 201-400 4: 401-600	Male 1: 1-75 2: 76-150 3: 151-200 4: 201-300 5: 301-400	Female 1: 1-50 2: 51-100 3: 101-150 4: 151-200 5: 201-300 6: 301-400	—	1 per 150	1 service sink or laundry tray
	Over 400, add 1 fixture for each additional 500 males and 1 fixture for each additional 150 females.		Over 600, add 1 fixture for each additional 300 males.	Over 400, add 1 fixture for each additional 250 males and 1 fixture for each additional 200 females.				
F1, F2 Factory or Industrial occupancy-fabricating or assembly work	Male 1: 1-50 2: 51-75 3: 76-100	Female 1: 1-50 2: 51-75 3: 76-100	—	Male 1: 1-50 2: 51-75 3: 76-100	Female 1: 1-50 2: 51-75 3: 76-100	1 shower for each 15 persons exposed to excessive heat or to skin contamination with poisonous, infectious or irritating material	1: 1-250 2: 251-500 3: 501-750	1 service sink or laundry tray
	Over 100, add 1 fixture for each additional 40 persons.		—	Over 100, add 1 fixture for each additional 40 persons.			Over 750, add 1 fixture for each additional 500 persons.	

PLUMBING FIXTURE AREAS				
OCCUPANCY	ROOM NAME	AREA	CPC LOAD FACTOR	CPC LOAD
B	OFFICE	1,995 SF	150	13
		1,995 SF		13
F1	INDUSTRIAL	8,639 SF	500	20
F1	PACKAGING & PROCESSING	5,454 SF	500	14
F1	PACKAGING & PROCESSING	6,631 SF	500	14
		20,723 SF		48
F1	WAREHOUSE	3,254 SF	4000	1
F1	WAREHOUSE	4,999 SF	4000	1
F1	WAREHOUSE	3,602 SF	4000	1
		11,855 SF		3



1 A0.05 PLUMBING FIXTURE CALCULATIONS - AREA DIAGRAM
1" = 30'-0"

PLUMBING FIXTURE CALCULATIONS

BASED ON 2022 CPC TABLE 422.1 AND TABLE 4-1

USE : GROUP B (OFFICE)
TOTAL AREA : 1,995 SF
OCCUPANCY LOAD FACTOR : 150
OCCUPANT LOAD : 14 OCCUPANTS
MALE : 7
FEMALE : 7

	REQUIRED	PROVIDED
WC - MALE	(1-50) = 1 MINIMUM	2 (SEE 1/A5.00)
WC - FEMALE	(1-15) = 1 MINIMUM	5 (SEE 1/A5.00)
URINALS	(1-100) = 1 MINIMUM	3 (SEE 1/A5.00)
LAVATORY - MALE	(1-75) = 1 MINIMUM	2 (SEE 1/A5.00)
LAVATORY - FEMALE	(1-50) = 1 MINIMUM	2 (SEE 1/A5.00)
DRINKING FOUNTAIN	1 PER 150	WATER DISPENSER IN KITCHENETTE
SERVICE SINK	1 MINIMUM	2 (IN MOP ROOMS, SEE A2.01A)

USE : GROUP F1 (INDUSTRIAL, PACKAGING & PROCESSING)
TOTAL AREA : 20,723 SF
OCCUPANCY LOAD FACTOR : 500
OCCUPANT LOAD : 48 OCCUPANTS
MALE : 24
FEMALE : 24

GROUP F1 (WAREHOUSE)
11,855 SF
4000
3 OCCUPANTS
2
2

	REQUIRED	PROVIDED
WC - MALE	(1-50) = 1 MINIMUM	2 (SEE 1/A5.00)
WC - FEMALE	(1-50) = 1 MINIMUM	5 (SEE 1/A5.00)
URINALS	0 REQUIRED	3 (SEE 1/A5.00)
LAVATORY - MALE	(1-50) = 1 MINIMUM	2 (SEE 1/A5.00)
LAVATORY - FEMALE	(1-50) = 1 MINIMUM	2 (SEE 1/A5.00)
DRINKING FOUNTAIN	(1-250) 1 MINIMUM	WATER DISPENSER IN KITCHENETTE
SERVICE SINK	1 PER 150	2 (IN MOP ROOMS, SEE A2.01A)

CODE REFERENCES

2022 CPC TABLE 4-1 OCCUPANT LOAD FACTOR NOTES:
* ANY USES NOT SPECIFICALLY LISTED IN THIS TABLE.
** FOR A BUILDING OR SPACE WITH MIXED OCCUPANCIES, USE APPROPRIATE OCCUPANCY GROUP FOR EACH AREA (FOR EXAMPLE, A SCHOOL MAY HAVE AN "A" OCCUPANCY FOR THE GYMNASIUM, A "B" OCCUPANCY FOR THE OFFICE, AN "E" OCCUPANCY FOR THE CLASSROOMS, ETC.). ACCESSORY AREAS SUCH AS, BUT NOT LIMITED TO, HALLWAYS/CORRIDORS, STAIRWAYS, RAMPS, TOILET ROOMS, MECHANICAL ROOMS, CLOSETS AND FIXED EQUIPMENT, MAY BE EXCLUDED.

2022 CPC TABLE 422.1 MINIMUM PLUMBING FACILITIES NOTES:
1. THE FIGURES SHOWN ARE BASED UPON ONE FIXTURE BEING THE MINIMUM REQUIRED FOR THE NUMBER OF PERSONS INDICATED OR ANY FRACTION THEREOF.
2. A RESTAURANT IS DEFINED AS A BUSINESS THAT SELLS FOOD TO BE CONSUMED ON THE PREMISES.
   A. THE NUMBER OF OCCUPANTS FOR A DRIVE-IN RESTAURANT SHALL BE CONSIDERED AS EQUAL TO THE NUMBER OF PARKING STALLS.
   B. HAND-WASHING FACILITIES SHALL BE AVAILABLE IN THE KITCHEN FOR EMPLOYEES.
3. THE TOTAL NUMBER OF REQUIRED WATER CLOSETS FOR FEMALES SHALL BE NOT LESS THAN THE TOTAL NUMBER OF REQUIRED WATER CLOSETS AND URINALS FOR MALES. ***[BSC]*** *THIS REQUIREMENT SHALL NOT APPLY WHEN SINGLE OCCUPANCY TOILET FACILITIES ARE PROVIDED FOR EACH SEX IN AN A OR E OCCUPANCY WITH AN OCCUPANT LOAD OF LESS THAN 50, EITHER:*
   A. *THE REQUIRED URINAL SHALL BE PERMITTED TO BE OMITTED OR*
   B. *IF INSTALLED, THE URINAL SHALL NOT REQUIRE A SECOND WATER CLOSET TO BE PROVIDED FOR THE FEMALE.*
4. FOR EACH URINAL ADDED IN EXCESS OF THE MINIMUM REQUIRED, ONE WATER CLOSET SHALL BE PERMITTED TO BE DEDUCTED. THE NUMBER OF WATER CLOSETS SHALL NOT BE REDUCED TO LESS THAN TWO-THIRDS OF THE MINIMUM REQUIREMENT.
5. METERING OR SELF-CLOSING FAUCETS SHALL BE INSTALLED ON LAVATORIES INTENDED TO SERVE THE TRANSIENT PUBLIC.
6. ***[BSC, DSA-AC, DSA-SS, DSA-SS/CC, HCD 1 & HCD 2, OSHPD 1, 2, 3, 4 & 5]*** *IN ACCORDANCE WITH SECTIONS AUTHORITY HAVING JURISDICTION MAY APPROVE ALTERNATIVE DESIGN CRITERIA WHEN DETERMINING THE MINIMUM NUMBER OF PLUMBING FIXTURES.*
7. **2022 CPC 415.2 DRINKING FOUNTAIN ALTERNATIVES**
   WHERE FOOD IS CONSUMED INDOORS, WATER STATIONS SHALL BE PERMITTED TO BE SUBSTITUTED FOR DRINKING FOUNTAINS. BOTTLE FILLING STATIONS SHALL BE PERMITTED TO BE SUBSTITUTED FOR DRINKING FOUNTAINS UP TO 50 PERCENT OF THE REQUIREMENTS FOR DRINKING FOUNTAINS. DRINKING FOUNTAINS SHALL NOT BE REQUIRED FOR AN OCCUPANT LOAD OF 30 OR LESS.
8. **2022 CPC 422.1 FIXTURE COUNT**
   A. THE MINIMUM NUMBER OF FIXTURES SHALL BE CALCULATED AT 50 PERCENT MALE AND 50 PERCENT FEMALE BASED ON THE TOTAL OCCUPANT LOAD. WHERE INFORMATION SUBMITTED INDICATES A DIFFERENCE IN THE DISTRIBUTION OF THE SEXES SUCH INFORMATION SHALL BE USED TO DETERMINE THE NUMBER OF FIXTURES FOR EACH SEX. ONCE THE OCCUPANCY LOAD AND OCCUPANCY ARE DETERMINED, TABLE 422.1 SHALL BE APPLIED TO DETERMINE THE MINIMUM NUMBER OF PLUMBING FIXTURES REQUIRED. WHERE APPLYING THE FIXTURE RATIOS IN TABLE 422.1 RESULTS IN FRACTIONAL NUMBERS, SUCH NUMBERS SHALL BE ROUNDED TO THE NEXT WHOLE NUMBER. FOR MULTIPLE OCCUPANCIES, FRACTIONAL NUMBERS SHALL BE FIRST SUMMED AND THEN ROUNDED TO THE NEXT WHOLE NUMBER.
   B. THE TOTAL OCCUPANT LOAD SHALL BE DETERMINED IN ACCORDANCE WITH THE **[BSC, DSA-SS & DSA-SS/CC]** CALIFORNIA BUILDING CODE OR TABLE 4-1 OCCUPANT LOAD FACTOR.
9. **422.2 SEPARATE FACILITIES**
   SEPARATE TOILET FACILITIES SHALL BE PROVIDED FOR EACH SEX.
   EXCEPTIONS:
   A. RESIDENTIAL INSTALLATIONS.
   B. IN OCCUPANCIES WITH A TOTAL OCCUPANT LOAD OF 10 OR LESS, INCLUDING CUSTOMERS AND EMPLOYEES, ONE TOILET FACILITY, DESIGNED FOR USE BY NO MORE THAN ONE PERSON AT A TIME, SHALL BE PERMITTED FOR USE BY BOTH SEXES.
   C. IN BUSINESS AND MERCANTILE OCCUPANCIES WITH A TOTAL OCCUPANT LOAD OF 50 OR LESS INCLUDING CUSTOMERS AND EMPLOYEES, ONE TOILET FACILITY, DESIGNED FOR USE BY NO MORE THAN ONE PERSON AT A TIME, SHALL BE PERMITTED FOR USE BY BOTH SEXES.
10. **422.2.1 SINGLE USE TOILET FACILITIES**
    SINGLE USE TOILET FACILITIES SHALL BE IDENTIFIED WITH SIGNAGE INDICATING USE BY EITHER SEX.
11. **422.2.2 FAMILY OR ASSISTED-USE TOILET FACILITIES**
    WHERE A SEPARATE TOILET FACILITY IS REQUIRED FOR EACH SEX, AND EACH TOILET FACILITY IS REQUIRED TO HAVE ONLY ONE WATER CLOSET, TWO FAMILY OR ASSISTED-USE TOILET FACILITIES SHALL BE PERMITTED IN PLACE OF THE REQUIRED SEPARATE TOILET FACILITIES.

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HIPPO HARVEST
HOLLISTER, CA
2370 SHORE ROAD
HOLLISTER, CA 95023
REF. PLAN CHECK # XXXXX

FOR REFERENCE ONLY

NAME:
LICENSE NUMBER:
SIGNATURE DATE:

ISSUE DATE:	JUNE 27, 2025
PROJ #:	25.003
TIME STAMP:	6/29/2025 2:49:27 PM
FILE:	Autodesk Docs://Hippo Harvest Hollister/R23_HIPPO HARVEST HOLLISTER - ARCH v2.rvt

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REVISIONS

#	DATE	ISSUE
0	-	-

FOR BIDDING ONLY - NOT FOR CONSTRUCTION

SHEET TITLE :
PLUMBING FIXTURES CALCULATIONS

IF THIS SHEET IS NOT 30"x42" IT IS A REDUCED PRINT
THIS SHEET IS INTENDED TO BE VIEWED IN COLOR

SHEET NO:
A0.05
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BID SET #1 - ADDENDUM 2

TABLE 1017.2 EXIT ACCESS TRAVEL DISTANCE

TABLE 1017.2
EXIT ACCESS TRAVEL DISTANCE[a]

OCCUPANCY	WITHOUT SPRINKLER SYSTEM (feet)	WITH SPRINKLER SYSTEM (feet)
A, E, F-1, M, R, S-1	200[g]	250[b]
R-2.1	Not Permitted	250[b]
B	200	300[c]
F-2, S-2, U	300	400[c]
H-1	Not Permitted	75[d]
H-2	Not Permitted	100[d]
H-3	Not Permitted	150[d]
H-4	Not Permitted	175[d]
H-5	Not Permitted	200[c]
I-2, *I-2.1*, I-3[f]	Not Permitted	200[c]
I-4	150	200[c]
L	*Not Permitted*	200[c]

For SI: 1 foot = 304.8 mm.

a. See the following sections for modifications to exit access travel distance requirements:
Section 402.8 for the distance limitation in malls.
Section 404.9 for the distance limitation through an atrium space.
Section 407.4 for the distance limitation in Group I-2or I-2.1.
Section 408.3.10: For increased limitation in Group I-3
Sections 408.6.1 and 408.8.1: For the distance limitations in Group I-3.
Section 411.3 for the distance limitation in special amusement buildings.
Section 412.6: For the distance limitations in aircraft manufacturing facilities.
Section 1006.2.2: For the distance limitation in refrigeration machinery rooms.
Section 1006.2.2.3: For the distance limitation in refrigerated rooms and spaces.
Section 1006.3.3: For buildings with one exit.
Section 1017.2.2: For increased distance limitation in Groups F-1 and S-1.
Section 1029.7: For increased limitation in assembly seating.
Section 3103.4: For temporary structures.
Section 3104.9: For pedestrian walkways.

b. Buildings equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 or 903.3.1.2. See Section 903 for occupancies where automatic sprinkler systems are permitted in accordance with Section 903.3.1.1.

c. Buildings equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1.

d. Group H occupancies equipped throughout with an automatic sprinkler system in accordance with Section 903.2.5.1.

e. Group R-3 and R-4 buildings equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.3. See Section 903.2.8 for occupancies where automatic sprinkler systems are permitted in accordance with Section 903.3.1.3.

f. Not permitted in nonsprinklered Group I-2 occupancies.

TABLE 601 - FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS

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

BUILDING ELEMENT	TYPE I		TYPE II		TYPE III		TYPE IV			TYPE V	
	A	B	A	B	A	B	*A*	*B*	*C*	HT	A	B
Primary structural frame[f] (see Section 202)	3[a, b]	2[a, b]	1[b]	0[b]	1[b]	0	3[a]	2[a]	2[a]	HT	1[b]	0
Bearing walls												
Exterior[e, f]	3	2	1	0	2	2	3	2	2	2	1	0
Interior	3[a]	2[a]	1	0	1	0	1	3	2	1/HT[g]	1	0
Nonbearing walls and partitions Exterior	See Table 705.5											
Nonbearing walls and partitions Interior[d]	0	0	0	0	0	0	0	0	0	See Section 2304.11.2	0	0
Floor construction and associated secondary structural members (see Section 202)	2	2	1	0	1	0	2	2	2	HT	1	0
Roof construction and associated secondary structural members (see Section 202)	1½[b]	1½[c]	1[b]	0[c]	1½[c]	0	1½[b]	1[b]	1	HT	1½[c]	0

For SI: 1 foot = 304.8 mm.

a. Roof supports: Fire-resistance ratings of primary structural frame and bearing walls are permitted to be reduced by 1 hour where supporting a roof only.

b. *1.Except in Group A, E, F-1, H-1, I, M, R-1, R-2, R-2.1 and S-1 occupancies, high-rise buildings, and other applications listed Section 1.11 regulated by the Office of the State Fire Marshal,* Fire protection of structural members in roof construction shall not be required, including protection of primary structural frame members, roof framing and decking where every part of the roof construction is 20 feet or more above any floor immediately below. Fire-retardant-treated wood members shall be allowed to be used for such unprotected members.

2. For Group A, E, I, L, R-1, R-2 and R-2.1 occupancies, high-rise buildings, and other applications listed Section 1.11 regulated by the Office of the State Fire Marshal, fire protection of members other than the primary structural frame shall not be required, including protection of roof framing and decking where every part of the roof construction is 20 feet or more above any floor immediately below. Fire-retardant-treated wood members shall be allowed to be used for such unprotected members.

3. One-story portions of Group A and E assembly occupancies the roof-framing system of Type II A or Type III A construction may be of unprotected construction when such roof-framing system is open to the assembly area and does not contain concealed spaces.

c. In all buildings, heavy timber complying withSection 2304.11 shall be allowed for roof construction, including primary structural frame members, where a 1-hour or less fire-resistance rating is required.

d. Not less than the fire-resistance rating required by other sections of this code.

e. Not less than the fire-resistance rating based on fire separation distance (see Table 705.5).

f. Not less than the fire-resistance rating as referenced inSection 704.10.

g. Heavy timber bearing walls supporting more than two floors or more than a floor and a roof shall have a fire resistance rating of not less than 1 hour.

TABLE 601 - FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS

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

1004.5 - MAXIMUM FLOOR AREA ALLOWANCE PER OCCUPANT

2022 California Building Code, Title 24, Part 2 (Volumes 1 & 2) with July 2024 Supple

CHAPTER 10 MEANS OF EGRESS

TABLE 1004.5
MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT

FUNCTION OF SPACE	OCCUPANT LOAD FACTOR[a]
Accessory storage areas, mechanical equipment room	300 gross
Agricultural building	300 gross
Aircraft hangars	500 gross
Airport terminal	
Baggage claim	20 gross
Baggage handling	300 gross
Concourse	100 gross
Waiting areas	15 gross
Assembly	
Gaming floors (keno, slots, etc.)	11 gross
Exhibit gallery and museum	30 net
Assembly with fixed seats	See Section 1004.6
Assembly without fixed seats	
Concentrated (chairs only—not fixed)	7 net
Standing space	5 net
Unconcentrated (tables and chairs)	15 net
Bowling centers, allow 5 persons for each lane including 15 feet of runway, and for additional areas	7 net
Business areas	150 gross
Concentrated business use areas	See Section 1004.8
Courtrooms—other than fixed seating areas	40 net
Day care	35 net
Dormitories	50 gross
Educational	
Classroom area	20 net
Shops and other vocational room areas	50 net
Exercise rooms	50 gross
Group H-5 fabrication and manufacturing areas	200 gross
Industrial areas	100 gross
Institutional areas	
Inpatient treatment areas	240 gross
Outpatient areas	100 gross
Sleeping areas	120 gross
Kitchens, commercial	200 gross
Laboratory	
Educational (K–12th grade)	*50 net*
Laboratories, non-educational	*100 net*
Laboratory suite[b]	*200 gross*
Library	
Reading rooms	50 net
Stack area	100 gross
Locker rooms	50 gross
Mall buildings—covered and open	See Section 402.8.2
Mercantile	60 gross
Storage, stock, shipping areas	300 gross
Parking garages	200 gross
Residential	200 gross
Skating rinks, swimming pools	
Rink and pool	50 gross
Decks	15 gross
Stages and platforms	15 net
Warehouses	500 gross

For SI: 1 foot = 304.8 mm, 1 square foot = 0.0929 m².

a. Floor area in square feet per occupant.
b. See Section 453.2.
c. See Table 408.3.13 for I-3 facilities.

TABLE 506.2 - ALLOWABLE AREA FACTOR

TABLE 506.2
ALLOWABLE AREA FACTOR (A_t = NS, S1, S13R, S13D or SM, as applicable) IN SQUARE FEET[a, b, c]

OCCUPANCY CLASSIFICATION	SEE FOOTNOTES	TYPE OF CONSTRUCTION											
		Type I		Type II		Type III		Type IV			Type V		
		A	B	A	B	A	B	*A*	*B*	*C*	HT	A	B
A-1	NS	UL	UL	15,500	8,500	14,000	8,500	*45,000*	*30,000*	*18,750*	15,000	11,500	5,500
	S1	UL	UL	62,000	34,000	56,000	34,000	*180,000*	*120,000*	*75,000*	60,000	46,000	22,000
	SM (with height increase)	UL	UL	46,500	25,500	42,000	25,500	*135,000*	*90,000*	*56,250*	45,000	34,500	16,500
	SM (with height increase)	UL	UL	*15,500*	*8,500*	*14,000*	*8,500*	*45,000*	*30,000*	*18,750*	*15,000*	*11,500*	*5,500*
A-2	NS	UL	UL	15,500	9,500	14,000	9,500	*45,000*	*30,000*	*18,750*	15,000	11,500	6,000
	S1	UL	UL	62,000	38,000	56,000	38,000	*180,000*	*120,000*	*75,000*	60,000	46,000	24,000
	SM (with height increase)	UL	UL	46,500	28,500	42,000	28,500	*135,000*	*90,000*	*56,250*	45,000	34,500	18,000
	SM (with height increase)	UL	UL	*15,500*	*9,500*	*14,000*	*9,500*	*45,000*	*30,000*	*18,750*	*15,000*	*11,500*	*6,000*
A-3	NS	UL	UL	15,500	9,500	14,000	9,500	*45,000*	*30,000*	*18,750*	15,000	11,500	6,000
	S1	UL	UL	62,000	38,000	56,000	38,000	*180,000*	*120,000*	*75,000*	60,000	46,000	24,000
	SM (without height increase)	UL	UL	46,500	28,500	42,000	28,500	*135,000*	*90,000*	*56,250*	45,000	34,500	18,000
	SM (with height increase)	UL	UL	*15,500*	*9,500*	*14,000*	*9,500*	*45,000*	*30,000*	*18,750*	*15,000*	*11,500*	*6,000*
A-4	NS	UL	UL	15,500	9,500	14,000	9,500	*45,000*	*30,000*	*18,750*	15,000	11,500	6,000
	S1	UL	UL	62,000	38,000	56,000	38,000	*180,000*	*120,000*	*75,000*	60,000	46,000	24,000
	SM (without height increase)	UL	UL	46,500	28,500	42,000	28,500	*135,000*	*90,000*	*56,250*	45,000	34,500	18,000
	SM (with height increase)	UL	UL	*15,500*	*9,500*	*14,000*	*9,500*	*45,000*	*30,000*	*18,750*	*15,000*	*11,500*	*6,000*
A-5	NS	UL	UL	UL	UL	UL	UL	UL	UL	UL	UL	UL	UL
	S1	UL	UL	UL	UL	UL	UL	UL	UL	UL	UL	UL	UL
	SM	UL	UL	UL	UL	UL	UL	UL	UL	UL	UL	UL	UL
B	NS	UL	UL	37,500	23,000	28,500	19,000	*108,000*	*72,000*	*43,000*	36,000	18,000	9,000
	S1	UL	UL	150,000	92,000	114,000	76,000	*432,000*	*288,000*	*180,000*	144,000	72,000	36,000
	SM	UL	UL	112,500	69,000	85,500	57,000	*324,000*	*216,000*	*135,000*	108,000	54,000	27,000
E	NS	UL	UL	26,500	14,500	23,500	14,500	*76,500*	*51,000*	*31,875*	25,500	18,500	9,500
	S1	UL	UL	106,000	58,000	94,000	58,000	*306,000*	*204,000*	*127,500*	102,000	74,000	38,000
	SM (with height increase)	UL	UL	79,500	43,500	70,500	43,500	*229,500*	*153,000*	*95,625*	76,500	55,500	28,500
F-1	NS	UL	UL	26,500	14,500	23,500	14,500	*76,500*	*51,000*	*31,875*	25,500	18,500	9,500
	S1	UL	UL	106,000	58,000	94,000	58,000	*306,000*	*204,000*	*127,500*	102,000	74,000	38,000
	SM	UL	UL	79,500	43,500	70,500	43,500	*229,500*	*153,000*	*95,625*	76,500	55,500	28,500
F-2	NS	UL	UL	25,000	15,500	19,000	12,000	*100,500*	*67,000*	*41,875*	33,500	14,000	8,500
	S1	UL	UL	100,000	62,000	76,000	48,000	*402,000*	*268,000*	*167,500*	134,000	56,000	34,000
	SM	UL	UL	75,000	46,500	57,000	36,000	*301,500*	*201,000*	*125,625*	100,500	42,000	25,500
	SM (without height increase)	UL	UL	37,500	23,000	28,500	18,000	*151,500*	*101,000*	*63,125*	50,500	21,000	13,000
I-1	NS	UL	UL	150,000	92,000	114,000	72,000	*606,000*	*404,000*	*252,500*	202,000	84,000	52,000
	SM	UL	UL	112,500	69,000	85,500	54,000	*454,500*	*303,000*	*189,375*	151,500	63,000	39,000
	NS[d]	21,000	16,500	11,000	7,000	9,500	7,000	*10,500*	*10,500*	*10,500*	10,500	7,500	NP
	S1												
	NS[d]	21,000	16,500	11,000	7,000	9,500	7,000	*10,500*	*10,500*	*10,500*	10,500	7,500	3,000
	SM												
I-2.1	*S1*	UL	60,000	26,500	14,000	17,500	13,000	*25,500*	*25,500*	*25,500*	25,500	10,000	5,000
	SM	UL	UL	37,500	17,500	28,500	17,500	*72,000*	*54,000*	*40,500*	36,000	18,000	6,500
	NS[d, f]	UL	UL	150,000	70,000	114,000	70,000	*288,000*	*216,000*	*162,000*	144,000	72,000	26,000
	SM (without height increase)	UL	UL	112,500	52,500	85,500	52,500	*216,000*	*162,000*	*121,500*	108,000	54,000	19,500
	SM (with height increase)	UL	UL	*37,500*	*17,500*	*28,500*	*17,500*	*72,000*	*54,000*	*40,500*	*36,000*	*18,000*	*6,500*
	NS[c, d]	UL	UL	37,500	23,000	28,500	19,000	*72,000*	*54,000*	*40,500*	36,000	18,000	9,000
	S1	UL	UL	150,000	92,000	114,000	76,000	*288,000*	*216,000*	*162,000*	144,000	72,000	36,000
	SM (without height increase)	UL	UL	112,500	69,000	85,500	57,000	*216,000*	*162,000*	*121,500*	108,000	54,000	27,000
	SM (with height increase)	UL	UL	*37,500*	*23,000*	*28,500*	*19,000*	*72,000*	*54,000*	*40,500*	*36,000*	*18,000*	*9,000*
	NS[c, f]	UL	UL	15,000	11,000	12,000	NP	36,000	24,000	12,000	12,000	9,500	NP
	S1	UL	UL	60,000	44,000	48,000	NP	144,000	96,000	48,000	48,000	38,000	NP
	SM (without height increase)	UL	UL	45,000	33,000	36,000	NP	108,000	72,000	36,000	36,000	28,500	NP
	SM (with height increase)	UL	UL	*15,000*	*11,000*	*12,000*	*NP*	*NP*	*NP*	*NP*	*12,000*	*9,500*	*NP*
	NS[c, d, f]	UL	*15,100*	*NP*	*NP*	*NP*	*NP*	*NP*	*NP*	*NP*	*NP*	*NP*	*NP*
	S1	UL	*45,300*	*NP*	*NP*	*NP*	*NP*	*NP*	*NP*	*NP*	*NP*	*NP*	*NP*
	SM (without height increase)	UL	*30,200*	*NP*	*NP*	*NP*	*NP*	*NP*	*NP*	*NP*	*NP*	*NP*	*NP*
	SM (with height increase)	UL	*15,100*	*NP*	*NP*	*NP*	*NP*	*NP*	*NP*	*NP*	*NP*	*NP*	*NP*
	NS[c, d, g]	UL	60,500	26,500	13,000	23,500	13,000	*76,500*	*51,000*	*25,500*	25,500	18,500	9,000
	S1	UL	121,000	106,000	52,000	94,000	52,000	*306,000*	*204,000*	*102,000*	102,000	74,000	36,000
	SM (without height increase)	UL	181,500	79,500	39,000	70,500	39,000	*229,500*	*153,000*	*76,500*	76,500	55,500	27,000
	SM (with height increase)	UL	*60,500*	*26,500*	*13,000*	*23,500*	*13,000*	*76,500*	*51,000*	*25,500*	*25,500*	*18,500*	*9,000*
	NS[c, d]	UL	*60,000*	*37,500*	*17,500*	*28,500*	*17,500*	*60,000*	*37,500*	*36,000*	*36,000*	*18,000*	*6,500*
	S1	UL	UL	21,500	12,500	18,500	12,500	*61,500*	*41,000*	*26,625*	20,500	14,000	9,000
	UL	UL	UL	86,000	50,000	74,000	50,000	*246,000*	*164,000*	*102,500*	82,000	56,000	36,000
	SM	UL	UL	64,500	37,500	55,500	37,500	*184,500*	*123,000*	*76,875*	61,500	42,000	27,000
	NS[d]	UL	UL	24,000	16,000	24,000	16,000	*61,500*	*41,000*	*25,625*	20,500	12,000	7,000
	S13R	UL	UL	96,000	64,000	96,000	64,000	*246,000*	*164,000*	*102,500*	82,000	48,000	28,000
I-3	*SM (without height increase)*	UL	UL	72,000	48,000	72,000	48,000	*184,500*	*123,000*	*76,875*	61,500	36,000	21,000
	SM (with height increase)	UL	UL	*24,000*	*16,000*	*24,000*	*16,000*	*61,500*	*41,000*	*25,625*	*20,500*	*12,000*	*7,000*
	NS[d]	*NP*	*NP*	*NP*	*NP*	*NP*	*NP*	*NP*	*NP*	*NP*	*NP*	*12,000*	*NP*
	S13R	*NP*	*NP*	*NP*	*NP*	*NP*	*NP*	*NP*	*NP*	*NP*	*NP*	*12,000*	*NP*
Type VA structure[h]	S1	*NP*	*NP*	*NP*	*NP*	*NP*	*NP*	*NP*	*NP*	*NP*	*NP*	*48,000*	*NP*
	SM (without height increase)	*NP*	*NP*	*NP*	*NP*	*NP*	*NP*	*NP*	*NP*	*NP*	*NP*	*36,000*	*NP*
	SM (with height increase)	*NP*	*NP*	*NP*	*NP*	*NP*	*NP*	*NP*	*NP*	*NP*	*NP*	*36,000*	*NP*
	NS[d]	UL	*55,000*	*19,000*	*NP*	*16,500*	*NP*	*54,000*	*NP*	*NP*	*NP*	*10,500*	*NP*
	S13R	UL	*55,000*	*19,000*	*NP*	*16,500*	*NP*					*10,500*	*NP*
	S1	UL	*220,000*	*76,000*	*NP*	*66,000*	*NP*	*216,000*	*NP*	*NP*	*NP*	*42,000*	*NP*
	SM (without height increase)	UL	*165,000*	*57,000*	*NP*	*49,500*	*NP*	*162,000*	*NP*	*NP*	*NP*	*31,500*	*NP*
	SM (with height increase)	UL	*55,000*	*19,000*	*NP*	*16,500*	*NP*	*54,000*	*NP*	*NP*	*NP*	*10,500*	*NP*
	NS[d]	UL	UL	*24,000*	*NP*	*24,000*	*NP*	*61,500*	*41,000*	*25,625*	*20,500*	*12,000*	*NP*
	S1	UL	UL	*96,000*	*NP*	*96,000*	*NP*	*246,000*	*164,000*	*102,500*	*82,000*	*48,000*	*NP*
	SM (without height increase)	UL	UL	*72,000*	*NP*	*72,000*	*NP*	*184,500*	*123,000*	*76,875*	*61,500*	*36,000*	*NP*
	SM (with height increase)	UL	UL	*24,000*	*NP*	*24,000*	*NP*	*61,500*	*41,000*	*25,625*	*20,500*	*12,000*	*NP*
	NS[d]												
	S13D	UL	UL	24,000	16,000	24,000	16,000	*61,500*	*41,000*	*25,625*	20,500	12,000	7,000
	S13R												
	S1	UL	UL	96,000	64,000	96,000	64,000	*246,000*	*164,000*	*102,500*	82,000	48,000	28,000
	SM (without height increase)	UL	UL	72,000	48,000	72,000	48,000	*184,500*	*123,000*	*76,875*	61,500	36,000	21,000
	SM (with height increase)	UL	UL	*24,000*	*16,000*	*24,000*	*16,000*	*61,500*	*41,000*	*25,625*	*20,500*	*12,000*	*7,000*
S-1	NS	UL	UL	48,000	26,000	17,500	26,000	17,500	*76,500*	*51,000*	*31,875*	25,500	14,000	9,000
	S1	UL	UL	192,000	104,000	70,000	104,000	70,000	*306,000*	*204,000*	*127,500*	102,000	56,000	36,000
	SM	UL	UL	144,000	78,000	52,500	78,000	52,500	*229,500*	*153,000*	*95,625*	76,500	42,000	27,000
S-2	NS	UL	UL	79,000	39,000	26,000	39,000	26,000	*125,500*	*77,000*	*48,125*	38,500	21,000	13,500
	S1	UL	UL	316,000	156,000	104,000	156,000	104,000	*462,000*	*308,000*	*192,500*	154,000	84,000	54,000
	SM	UL	UL	237,000	117,000	78,000	117,000	78,000	*346,500*	*231,000*	*144,375*	115,500	63,000	40,500
	NS[f]	UL	UL	35,500	19,000	8,500	14,000	8,500	*54,000*	*36,000*	*22,500*	18,000	9,000	5,500
U	S1	UL	UL	142,000	76,000	34,000	56,000	34,000	*216,000*	*144,000*	*90,000*	72,000	36,000	22,000
	SM	UL	UL	106,500	57,000	25,500	42,000	25,500	*162,000*	*108,000*	*67,500*	54,000	27,000	16,500

For SI: 1 square foot = 0.0929 m².

UL = Unlimited; NP = Not Permitted; NS = Buildings not equipped throughout with an automatic sprinkler system; S1 = Buildings a maximum of one story above grade plane equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1; SM = Buildings two or more stories above grade plane equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1; S13R = Buildings equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.3; S13D = Buildings equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.3.

a. See Chapters 4 and 5 for specific exceptions to the allowable area in this chapter.
b. See Section 903.2 for the minimum thresholds for protection by an automatic sprinkler system for specific occupancies.
c. New Group H and all Group I occupancies are required to be protected by an automatic sprinkler system in accordance with Section 903.2.5.
d. The NS value is only for use in evaluation of existing building area in accordance with the California Existing Building Code.
e. Group I-3 occupancies are required to be protected by an automatic sprinkler system in accordance with Section 903.2.6.
f. New and existing Group I-2 occupancies are required to be protected by an automatic sprinkler system in accordance with Section 903.2.6.
➢ g. New Group I-4 occupancies see Exceptions 2 and 3 of Section 903.2.6.
h. New Group R occupancies are required to be protected by an automatic sprinkler system in accordance with Section 903.2.8.
i. The maximum allowable area for a single-story nonsprinklered Group U greenhouse is permitted to be 9,000 square feet, or the allowable area shall be permitted to comply with Table C102.1 of Appendix C.
j. In other than Group A, E, H, I, L and R occupancies, high-rise buildings, and other applications listed in Section 1.11 regulated by the Office of the State Fire Marshal, the S increases for height and stories in Tables 504.3 and 504.4 are permitted in addition to the S area increase in accordance with Table 506.2.
k. For Group R-2 buildings of Type VA construction equipped throughout with an approved automatic sprinkler system in accordance with Section 903.3.1.1, S area increase is permitted in addition to the height and story increase provided the height shall not exceed 60 feet and 4 stories.
l. The NS value is only for use in evaluation of single-occupancy, multistory buildings per the formula in Section 506.2.3.

906 PORTABLE FIRE EXTINGUISHERS

[F] 906.1 Where required.

Portable fire extinguishers shall be installed in all of the following locations:

1. In Group A, B, E, F, H, I,L, M, R-1, R-2, *R-2.1*, *R-2.2*, *R-3.1*, R-4 and S occupancies.

Exception: In Group R-2 occupancies, portable fire extinguishers shall be required only in locations specified in Items 2 through 6 where each dwelling unit is provided with a portable fire extinguisher having a minimum rating of 1-A:10-B:C.

2. Within 30 feet (9144 mm) distance of travel from commercial cooking equipment and from domestic cooking equipment in Group R-2 college dormitory occupancies.

3. In areas where flammable or combustible liquids are stored, used or dispensed.
4. On each floor of structures under construction, except Group R-3 occupancies, in accordance with Section 3315.1 of the *California Fire Code*.
5. Where required by the *California Fire Code* sections indicated in Table 906.1.
6. Special-hazard areas, including but not limited to laboratories, computer rooms and generator rooms, where required by the fire code official.
7. Large and small family day-care homes shall be equipped with a portable fire extinguisher having a minimum 2A:10B:C rating.
8. Where required by California Code of Regulations, Title 19, Division 1, Chapter 3.
9. Within 30 feet (9144 mm) of domestic cooking equipment located in a Group I-2.

506.2 MIXED-OCCUPANCY BUILDINGS

506.2.2 MIXED-OCCUPANCY BUILDINGS.
THE ALLOWABLE AREA OF EACH STORY OF A MIXED-OCCUPANCY BUILDING SHALL BE DETERMINED IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF SECTION 508.3.2 FOR NONSEPARATED OCCUPANCIES AND SECTION 508.4.2 FOR SEPARATED OCCUPANCIES. FOR BUILDINGS WITH MORE THAN THREE STORIES ABOVE GRADE PLANE, THE TOTAL BUILDING AREA SHALL BE SUCH THAT THE AGGREGATE SUM OF THE RATIOS OF THE ACTUAL AREA OF EACH STORY DIVIDED BY THE ALLOWABLE AREA OF SUCH STORIES, DETERMINED IN ACCORDANCE WITH EQUATION 5-3 BASED ON THE APPLICABLE PROVISIONS OF SECTION 508.3, SHALL NOT EXCEED THREE, *PROVIDED THE AGGREGATE SUM OF THE RATIOS FOR PORTIONS OF MIXED-OCCUPANCY, MULTISTORY BUILDINGS CONTAINING A, E, H, I, L AND R OCCUPANCIES, HIGH-RISE BUILDINGS, AND OTHER APPLICATIONS LISTED IN SECTION 1.11 REGULATED BY THE OFFICE OF THE STATE FIRE MARSHAL, SHALL NOT EXCEED TWO.*

(EQUATION 5-3)
A_a = ALLOWABLE AREA (SQUARE FEET).
A_1 = TABULAR ALLOWABLE AREA FACTOR (NS, S13R, S13D OR SM VALUE, AS APPLICABLE) IN ACCORDANCE WITH TABLE 506.2
NS = TABULAR ALLOWABLE AREA FACTOR IN ACCORDANCE WITH TABLE 506.2 FOR A NONSPRINKLERED BUILDING, REGARDLESS OF WHETHER THE BUILDING IS SPRINKLERED.
I_a = AREA FACTOR INCREASE DUE TO FRONTAGE (PERCENT) AS CALCULATED IN ACCORDANCE WITH SECTION 506.3.

TABLE 508.4 - REQUIRED SEPARATION OF OCCUPANCIES (HOURS)

TABLE 508.4
REQUIRED SEPARATION OF OCCUPANCIES (HOURS)[b]

OCCUPANCY	A, E	I-4*, R-2.1*	I-2[f], *I-2.1*	I-3	R-1*, R-2*, R-2.2*, R-3*, R-3.1*, R-4*	F-2, S-2[d], U	[S]*, F-1[d, h], M, S-1	*L*	H-1	H-2	H-3, H-4	H-5	
	S	NS	S	NS	S	NS	S	*NS*	S	NS	S	NS	S	NS	S	NS	S	NS	S	NS
A, E	N	N	2	2	NP[i]	2	N	1	1	2	2	NP	NP	NP	3	4	2	3	2	NP
I-4*, *R-2.1*	2	2	1*	NP	2	NP	1	NP	1	2	1	2	2	NP	NP	NP	4	NP	2	NP	2	NP
I-2, I-2.1	2	NP	2	NP	N	NP	2	NP	2	NP	2	NP	2	NP	NP	NP	4	NP	2	NP	2	NP
I-3	2	NP	2	NP	2	NP	N	NP	2	NP	2	2	2	2	NP	NP	4	NP	2	NP	2	NP
R-1, R-2*, R-2.2*, R-3*, R-3.1*, R-4*	1	2	1	NP	2	NP	N	N	1[c]	2[c]	1	2	2	4	NP	NP	3	NP	2	NP	2	NP
F-2, S-2[d], U	N	1	1	2	2	NP	2	2	1[c]	2[c]	N	1	2	3	NP	NP	3	4	2	3	2	NP
[S]*, F-1[d, h], M, S-1	1	2	1	2	2	NP	2	2	1	2	1	N	1	NP	NP	NP	2	3	1	2	1	NP
L	2	NP	2	NP	2	NP	1	NP	1	NP	1	NP	1	NP	NP	NP	2	NP	1	NP	1	NP
H-1	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	N	NP	NP	NP	NP	NP	NP	NP
H-2	3	4	NP	4	NP	4	NP	3	NP	3	4	2	3	2	NP	NP	N	NP	1	NP	1	NP
H-3, H-4	2	3	2	NP	2	NP		2	NP	2	3	1	2	1*	NP	NP	NP	1	NP	1*	NP	NP
H-5	2	NP	2	NP	2	NP		2	NP	2	NP	1	NP	1*	NP	NP	NP	1	NP	1	N	NP

S = Buildings equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1.

NS = Buildings not equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1.

N = No separation requirement.

NP = Not Permitted.

a. See Section 420.
b. The required separation from areas used only for private or pleasure vehicles shall be reduced by 1 hour but not to less than 1 hour.
c. See Sections 406.3.2 and 406.6.4.
d. Separation is not required between occupancies of the same classification.
e. See Section 422.2 for ambulatory care facilities.
f. Occupancy separations that serve to define fire area limits established in Chapter 9 for requiring fire protection systems shall also comply with Section 707.3.10 and Table 707.3.10 in accordance with Section 903.7.
g. [SFM] Group I and F1 occupancies and Group R-2.1 and F-1 occupancies shall have a 3 hour separation.
h. [SFM] Commercial kitchens not associated with cafeterias and similar dining facilities in Group I-2 and Group R-2.1 shall have a 2-hour separation and shall be protected by an automatic sprinkler system.
i. [SFM] Group E child-care separation with 1-4 child care can be reduced to 1 hour with the installation of automatic fire sprinklers in accordance with Section 903.3.1.1.
j. When not considered an accessory use in accordance with Section 508.2.4, the required separation between Group I-2 and required covers for accessible entrances and emergency vehicle entrances, when in accordance with Section 406.5.2 and protected by an automatic sprinkler system, shall be reduced by 1 hour but not to less than 1 hour. See Section 903.2.22.

TABLE 705.5 FIRE-RESISTANCE RATING REQ/ FOR EXTERIOR WALLS

TABLE 705.5
FIRE-RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE[f, *g*, h]

FIRE SEPARATION DISTANCE = X (feet)	TYPE OF CONSTRUCTION	OCCUPANCY GROUP H*, I, OCCUPANCY GROUP F-1, M, S-1[e]	OCCUPANCY GROUP A, B, E, F-2, I, R*, S-2, U[b]
X < 3[a]	All	3	2	1
5 ≥ X < 10	IA, IVA	3	2	1
	Others	2	1	1
	IA, IB, IVA, IVB	2	1	1[c]
10 ≥ X < 30	IB, VB	1	0	0
	Others	1	1	0
X ≥ 30	All	0	0	0

For SI: 1 foot = 304.8 mm.

a. Load-bearing exterior walls shall also comply with the fire-resistance rating requirements of Table 601.
b. See Section 706.5 for party walls.
c. Open parking

NOTES - MILLWORK

1. FURNISH AND INSTALL CUSTOM MILLWORK AS SHOWN ON PLANS AND DETAILS
2. THE CUSTOM GRADE STANDARDS OF THE AMERICAN WOODWORK INSTITUTE (AWI) WILL BE USED TO ESTABLISH EQUALITY OF WORKMANSHIP AND REQUIRED TOLERANCES. HOWEVER, (AWI) CERTIFICATION WILL NOT BE REQUIRED.
3. PROVIDE SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO FABRICATION. SHOW DIMENSIONED PLANS, ELEVATIONS, SECTIONS, DETAILS AND HARDWARE SPECIFICATIONS PER UNIT, INCLUDING INSTALLATION. FABRICATOR IS RESPONSIBLE FOR COORDINATING WORK WITH OTHER DISCIPLINES.
4. PROVIDE TWO MIN. 12"x12" SAMPLES OF EACH FINISH PRIOR TO FABRICATION FOR ARCHITECTS APPROVAL.
5. INSTALL THE WORK PLUMB, LEVEL, TRUE, AND STRAIGHT WITH NO DISTORTIONS. ATTACH UNIT SECURELY TO WALLS, AND ATTACH COUNTERTOPS SECURELY TO WALLS AND ATTACH COUNTERTOPS SECURELY TO BASE CABINETS. MAKE CUTS FOR HARDWARE AND EQUIPMENT NEAT AND TRUE. INSTALL AND ADJUST HARDWARE. DOORS AND SHELVING TO OPERATE IN A SMOOTH MANNER WITHOUT BINDING. SCRIBE AND FIT ALL WORK AS REQUIRED.
6. VERIFY QUANTITY, SIZE AND LOCATION OF ALL ITEMS AFFECTING WORK, INCLUDING, BUT NOT LIMITED TO, PLUMBING FIXTURES, ELECTRICAL RECEPTACLES, CONDUIT, APPLIANCES AND EQUIPMENT BEING PROVIDED BY OTHERS, PRIOR TO FABRICATION. ADVISE DESIGNER OF ANY ITEMS IN CONFLICT WITH MILLWORK PRIOR TO FABRICATION.
7. CONTRACTOR TO COORDINATE LOCATIONS OF ELECTRICAL, TELEPHONE AND DATA OUTLETS MOUNTED ABOVE MILLWORK COUNTER TOPS, UNDER WALL CABINETS AND WITHIN MILLWORK CABINETS WITH FABRICATOR.
8. CONTRACTOR TO COORDINATE WITH GENERAL CONTRACTOR THE SETTING OF ALL NECESSARY WOOD BLOCKING AS RELATED TO HIS INSTALLATION.
9. ALL WOODWORK, BLOCKING, GROUNDS, ROUGH BUCKS, AND MISCELLANEOUS BLOCKING SHALL BE FIRE RETARDANT IN ACCORDANCE WITH LOCAL BUILDING CODES.
10. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY BLOCKING, BACKING, FRAMING, HANGERS, OR OTHER SUPPORT FOR ALL FIXTURES, EQUIPMENT, CABINETRY, FURNISHINGS, AND ALL OTHER ITEMS REQUIRING THE SAME.

NOTES - PROJECT

GENERAL NOTE:
IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND OR FABRICATOR AT THE TIME OF PREPARATION OF BID ESTIMATE TO ADVISE THE OWNER & THE ARCHITECT OF ANY ERRORS, AMBIGUITIES AND OMISSIONS IN THESE DRAWINGS.

CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL CONSULTANT'S DRAWINGS WITH THE DRAWINGS PROVIDED HEREIN.

1. BROOM SWEEP & CLEAN ALL SURFACES. REMOVE ALL INCIDENTAL ITEMS & DEBRIS.
2. UTILITIES DISCONTINUED: SAFE OFF ALL UTILITIES PRIOR TO BEGINING WORK. PROVIDE CONSTRUCTION SITE TEMPORARY POWER AS NEEDED.
3. PERFORM WORK IN MANNER TO ELIMINATE HAZARDS TO PERSONS OR PROPERTY AND AVOID INTERFERENCE WITH ADJACENT OPERATIONS, OR EVENTS & HORZ. PRESSURE.
4. PROVIDE AND MAINTAIN TEMPORARY BARRICADES, FENCES, WARNING SIGNS, GUARDRAILS, WARNING LIGHTS, WEATHERPROOF AND DUST PARTITIONS (AS NEEDED), AND OTHER SIMILAR PROVISIONS AS NECESSARY OR REQUIRED BY APPLICABLE REGULATORY AUTHORITIES FOR PROTECTION OF BUILDING OCCUPANTS AND WORKERS.
5. MAINTAIN EGRESS AND ACCESS TO SITE AT ALL TIMES.
6. PROTECT OPENINGS (SUCH AS PITS AND SHAFTS WHERE FREEFALL MAY OCCUR) AT ALL TIMES WITH BARRIERS ON ALL SIDES TO PREVENT FREEFALL AS REQUIRED OSHA 1926.502(B)(1-3). A FREESTANDING REMOVABLE BARRICADE AT EACH OPENING AT EACH FLOOR. BARRICADE SHALL BE 42" HIGH, HIT MID-RAIL & KICK BOARD, & WITHSTAND 200 LBS OF OUTWARD & HORZ. PRESSURE.
7. PROVIDE MINIMUM OF 42" HIGH BARRIERS ON ALL SIDES OF SURFACES WITH AN ABRUPT CHANGE OF ELEVATION MORE THAN 8" HIGH.
8. CONTRACTOR SHALL PROVIDE, & IS SOLELY RESPONSIBLE & LIABLE FOR, PUBLIC AND EMPLOYEE PROTECTION AS NECESSARY AND AS REQUIRED BY THE CODES. WORK SHALL CONFORM TO ORDINANCES AND REGULATIONS OF THE AGENCIES HAVING JURISDICTION AT THE PROJECT LOCATION.
9. CONTRACTOR SHALL INVESTIGATE ALL UTILITIES AFFECTED BY ANY DEMOLITION SO THAT ACCIDENTAL SHUTDOWN OF UTILITIES SERVICES OUTSIDE OF WORK AREA SUCH AS SURROUNDING PROPERTIES IS ELIMINATED. NO EXTRAS WILL BE ALLOWED FOR WORK REQUIRED TO REPAIR OR TEMPORARY REWORK SERVICE OUTSIDE OF THE WORK AREA.
10. USE MERV 8 FILTERS OR BETTER FOR ALL REGULARLY OCCUPIED ARES OF THE BUILDINGS. SEE MECHANICAL DRAWINGS.
11. PROVIDE CO2 MONITORING DEVICES IN ALL DEMAND CONTROL VENTILATION AREAS. SEE MECHANICAL DRAWINGS SHEETS.

NOTES - MAINTENANCE INFORMATION

1. CONTRACTOR IS RESPONSIBLE FOR PROVIDING MAINTENANCE INFORMATION TO OWNER ON ALL ARCHITECTURAL FIXTURES, FINISHES AND EQUIPMENT.

NOTES - MECHANICAL & PLUMBING

1. A WALK-THROUGH WITH THE OWNER AND THE ARCHITECT SHALL BE SCHEDULED AND OCCUR PRIOR TO DRYWALL CLOSE IN ORDER TO VERIFY CORRECT LOCATION OF THERMOSTATS AND HEIGHT AND LOCATION OF DUCTWORK.
2. NO THERMOSTATS SHALL BE LOCATED AT THE CENTERS OF WALLS, OR IN ANY OTHER CONSPICUOUS LOCATIONS, WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT.
3. ALL TOILET ROOMS SHALL BE PROVIDED WITH AN EXHAUST FAN WITH A 5-MINUTE AIR CHANGE CAPACITY AND VENTED TO THE OUTSIDE.
4. PROVIDE AND INSTALL APPROVED FIRE DAMPERS FOR ALL DUCT PENETRATIONS OF FIRE RESISTIVE WALLS.

NOTES - DOOR GENERAL

1. NOT ALL DOOR TYPES SHOWN ARE NECESSARILY USED. SEE DOOR MARK SCHEDULE FOR DOOR TYPES USED.
2. DOOR OPENING LOCATIONS: **A**. IMMEDIATELY (4") ADJACENT TO A FLANKING WALL U.O.N. **B**. AT THE CENTERLINE OF THE ROOM, U.O.N.CENTERED ON A GRID LINE. **C**. DOOR OPENINGS IN OTHER LOCATIONS ARE LOCATED BY DIMENSIONS.
3. SEE SPECIFICATIONS FOR HARDWARE SCHEDULE AND DETAIL FOR HARDWARE MOUNTING INFORMATION.
4. TYPICAL DOOR CONSTRUCTION U.O.N. ON SCHEDULE: WOOD (WD)=SOLID CORE WOOD DOOR, HOLLOW METAL (HM), ALUMINUM (ALUM).
5. DOOR FRAME NOTES: DOOR FRAMES TO BE KNOCK-DOWN EXCEPT HM EXTERIOR DOOR FRAMES AND FIRE RATED DOOR FRAMES WHICH ARE WELDED FRAMES.
6. WHERE DOOR HOLD-OPEN DEVICES OCCUR AT WALLS, PROVIDE BACKING PLATE.
7. SUBMIT DOOR & HARDWARE SCHEDULE WITH PROPOSED ITEMS TO OWNER FOR REVIEW BEORE ORDERING ITEMS.
8. CONNECT ANY ELECTROMAGNETIC HOLDER TO BUILDING LIFE SAFETY SYSTEM.
9. ALL SECURITY ACCESS FEATURES BY OWNER & TENANT
10. WHERE NOTED IN DOOR SCHEDULE PROVIDE WINDOW FILM ON GLASS DOOR LIGHTS.
11. DOOR OPENINGS SHALL BE PROTECTED BY A U.L. LISTED (OR EQUAL) DOOR AND DOOR FRAME. ALL RATED DOORS SHALL BE POSITIVE LATCHING, AUTOMATIC CLOSING AND GASKETED TO PREVENT THE PASSAGE OF SMOKE.
12. ALL INTERIOR DOORS WITH FIRE-RATINGS GREATER THAN 20 MINUTE SHALL HAVE A NONCOMBUSTIBLE SILL WITH AN UNDERCUT OF 3/8" ABOVE THE SILL
13. ALL EXTERIOR DOORS SHALL HAVE METAL THRESHOLDS. SEE HARDWARE SCHEDULE AND DOOR DETAILS SHEETS.
14. SEE THE SIGNAGE SCHEDULE FOR SIGNAGE REQUIREMENTS. FOR EXAMPLE, FOR EXIT DOORS PROVIDE A READILY VISIBLE DURABLE SIGN ON OR ADJACENT TO THE DOOR STATING "THIS DOOR MUST REMAIN UNLOCKED WHEN OCCUPIED". THE SIGN SHALL BE IN LETTERS NOT LESS THAN 1 INCH HIGH ON A CONTRASTING BACKGROUND.
15. RIGHT HAND LEAF OF PAIR OF DOORS TO BE ACTIVE, U.O.N.
16. MOUNT CLOSER ON PULL SIDE OF THE DOOR, U.O.N.
17. PROTECT PREFINISHED SURFACES AND REPAIR ANY DAMAGE.
18. SUBMIT DOOR & HARDWARE SCHEDULE WITH PROPOSED ITEMS TO ARCHITECT FOR REVIEW BEORE ORDERING ITEMS.
19. PROVIDE SILENCER AT ALL DOOR FRAME (2 AT EACH DOOR HEAD AT DOUBLE DOORS)
20. ALL UNDERCUT DOOR REQUIREMENTS FOR VARYING FLOORING MATERIALS SHALL BE VERIFIED AND PROPERLY COORDINATED BY CONTRACTOR.
21. ALL DOOR OPENINGS FRAMES AND HARDWARE SHALL COMPLY WITH ALL APPLICABLE CODE REQUIREMENTS.
22. COORDINATE ALL DOORS AND DOOR DETAILS TO PROVIDE ADEQUATE CLEARANCE AND FRAME REINFORCEMENT FOR HARDWARE TYPES.
23. TYPICAL DOOR BEVEL TO BE 1/8" IN 2" UNLESS NOTED OTHERWISE BY THE HARDWARE TEMPLATE REQUIREMENTS.
24. ALL DOOR THRESHOLDS, DOOR HARDWARE, AND DOOR OPENING & CLOSING FORCES SHALL BE IN COMPLIANCE WITH CBC CHAPTER 11B-404
25. FIRE DOORS SHALL HAVE THE MINIMUM OPENING FORCE ALLOWED AND SHALL NOT EXCEED THE MAXIMUM FORCE ALLOWED. BUILDING PRESSURIZATION SYSTEM SHALL NOT ADVERSELY AFFECT THESE OPENING FORCES.
26. ALL ELECTRICAL ROOM DOORS SHALL OPEN OUTWARD & SHALL BE EQUIPPED WITH PANIC HARDWARE.
27. **GLASS:** SEE SPECIFICATIONS FOR GLASS TYPES. SAFETY GLASS, PER CHAPTER 13, NFPA 80.
28. **FIRE RATING:**
    20 MINUTE RATED ASSEMBLY, DOOR, FRAME & HARDWARE.
    45 - 45 MINUTE RATED ASSEMBLY, DOOR, FRAME & HARDWARE.
    60 - 60 MINUTE RATED ASSEMBLY, DOOR, FRAME & HARDWARE.
    90 - 90 MINUTE RATED ASSEMBLY, DOOR, FRAME & HARDWARE.
    120 - 120 MINUTE RATED ASSEMBLY, DOOR, FRAME & HARDWARE.
    180 - 180 MINUTE RATED ASSEMBLY, DOOR, FRAME & HARDWARE.

NOTES - GOOD HOUSEKEEPING REQUIREMENTS

1. CONDUCT INVENTORY OF THE PRODUCTS USED AND/OR EXPECTED TO BE USED AND THE END PRODUCTS THAT ARE PRODUCED AND/OR EXPECTED TO BE PRODUCED. THIS DOES NOT INCLUDE MATERIALS AND EQUIPMENT THAT ARE DESIGNED TO BE OUTDOORS AND EXPOSED TO THE ENVIRONMENTAL CONDITIONS, (I.E., POLES, EQUIPMENT PADS, CABINETS, CONDUCTORS, INSULATORS, BRICKS, ETC.
2. COVER AND BERM LOOSE STOCKPILED CONSTRUCTION MATERIALS THAT ARE NOT ACTIVELY BEING USED (I.E., SOIL, SPOILS, AGGREGATE, FLY-ASH, STUCCO, HYDRATED LIME, ETC.)
3. STORE CHEMICALS IN WATERTIGHT CONTAINERS (WITH APPROPRIATE SECONDARY CONTAINMENT TO PREVENT ANY SPILLAGE OR LEAKAGE) OR IN A STORAGE SHED (COMPLETELY ENCLOSED).
4. MINIMIZE EXPOSURE OF CONSTRUCTION MATERIALS TO PRECIPITATION. THIS DOES NOT INCLUDE MATERIALS AND EQUIPMENT THAT ARE DESIGNED TO BE OUTDOORS AND EXPOSED TO ENVIRONMENTAL CONDITIONS (I.E., POLES, EQUIPMENT PADS, CABINETS, CONDUCTORS, INSULATORS, BRICKS, ETC.)
5. IMPLEMENT BMP'S TO PREVENT THE OFF-SITE TRACKING OF LOOSE CONSTRUCTION AND LANDSCAPE MATERIALS.
6. PREVENT DISPOSAL OF ANY RINSE OR WASH WATERS OR MATERIALS ON IMPERVIOUS OR PERVIOUS SURFACES OR INTO ANY STORM DRAIN SYSTEM.
7. ENSURE THE CONTAINMENT OF SANITATION FACILITIES (E.G., PORTABLE TOILETS) TO PREVENT DISCHARGES OF POLLUTANTS T THE STORM WATER DRAINAGE SYSTEM OR RECEIVING WATER.
8. CLEAN OR REPLACE SANITATION FACILITIES AND INSPECT THEM REGULARLY FOR LEAKS AND SPILLS.
9. COVER WASTE DISPOSAL CONTAINERS AT THE END OF EVERY BUSINESS DAY AND DURING A RAIN EVENT.
10. PREVENT DISCHARGES FROM WASTE DISPOSAL CONTAINERS TO THE STORM WATER DRAINAGE SYSTEM OR RECEIVING WATER.
11. CONTAIN AND SECURELY PROTECT STOCKPILED WASTE MATERIAL FROM WIND AND RAIN AT ALL TIMES UNLESS ACTIVELY BEING USED
12. IMPLEMENT PROCEDURES THAT EFFECTIVELY ADDRESS HAZARDOUS AND NON-HAZARDOUS SPILLS. HAVE A PROCEDURE MANUAL ON THE SITE.
13. ENSURE THE CONTAINMENT OF CONCRETE WASHOUT AREAS AND OTHER WASHOUT AREAS THAT MAY CONTAIN ADDITIONAL POLLUTANTS SO THERE IS NO DISCHARGE INTO UNDERLYING SOIL AND THE SURROUNDING AREAS.
14. PREVENT OIL, GREASE, OR FUEL TO LEAK INTO THE GROUND, OR STORM DRAINS
15. CLEAN LEAKS IMMEDIATELY AND DISPOSE OF LEAKED MATERIALS PROPERLY.
16. CONTAIN STOCKPILED MATERIALS SUCH AS MULCHES AND TOPSOIL WHEN THEY ARE NOTE ACTIVELY BEING USED.
17. CONTAIN FERTILIZERS AND OTHER LANDSCAPE MATERIALS WHEN THEY ARE NOTE ACTIVELY BEING USED.
18. DISCONTINUE THE APPLICATION OF ANY ERODIBLE LANDSCAPE MATERIAL WITHIN 2 DAYS BEFORE A FORECASTED EVENT OR DURING PERIODS OF PRECIPITATION.
19. APPLY ERODIBLE LANDSCAPE MATERIAL AT QUANTITIES AND APPLICATION RATES ACCORDING TO THE MANUFACTURERES RECOMMENDATIONS OR BASED ON WRITTEN SPECIFICATIONS BY KNOWLEDGEABLE AND EXPERIENCED FIELD PERSONNEL.
20. STACK ERODIBLE LANDSCAPE MATERIAL ON PALLETS AND COVERING OR STORING SUCH MATERIALS WHEN NOT BEING USED OR APPLIED.
21. CONSIDER THE QUANTITY, PHYSICAL CHARACTERISTICS (E.G., LIQUID, POWDER, SOLID) AND LOCATIONS OF EACH POTENTIAL POLLUTANT SOURCE HANDLED, PRODUCED, STORED, RECYCLED, OR DISPOSED OF AT THE SITE.
22. CONSIDER THE DEGREE TO WHICH POLLUTANTS ASSOCIATED WITH THOSE MATERIALS MAY BE EXPOSED AND MOBILIZED BY CONTACT WITH STORM WATER.
23. CONSIDER THE DIRECT AND INDIRECT PATHWAYS THAT POLLUTANTS MAY BE EXPOSED TO STORM WATER OR AUTHORIZED NON-STORM WATER DISCHARGES. THIS SHALL INCLUDE AN ASSESSMENT OF PAST SPILLS OR LEAKS, NON-STORM WATER DISCHARGES, AND DISCHARGES FROM ADJOINING AREAS.
24. ENSURE EFFECTIVENESS OF BMP'S TO REDUCE OR PREVENT POLLUTANTS IN STORM WATER DISCHARGES AND AUTHORIZED NON-STORM WATER DISCHARGES.
25. CONTROL ALL NON-STORM WATER DISCHARGES DURING CONSTRUCTION.
26. WASH ALL VEHICLES IN A MANNER AS TO PREVENT NON-STORM WATER DISCHARGES TO SURFACE WATERS MS4 DRAINAGE SYSTEMS.
27. IMPLEMENT EFFECTIVE WIND EROSION CONTROL.
28. PROVIDE EFFECTIVE SOIL COVER FOR INACTIVE AREAS AND ALL FINISHED SLOPES, OPEN SPACES, UTILITY BACKFILL, AND COMPLETED LOTS.
29. WHERE PHYSICAL MATERIAL IS NOT DEEMED NECESSARY, THE DISCHARGER SHALL CONSIDER THE USE OF PLASTIC MATERIALS RESISTANT TO SOLAR DEGRADATION.
30. MAINTAIN EFFECTIVE PERIMETER CONTROLS AND STABILIZE ALL CONSTRUCTION ENTRANCES AND EXITS TO SUFFICIENTLY CONTROL EROSION AND SEDIMENT DISCHARGES FROM THE SITE.

NOTES - MEP COMPONENT ANCHORAGE

MEP Component Anchorage Note

All mechanical, plumbing, and electrical components shall be anchored and installed per the details on the DSA-approved construction documents. The following components shall be anchored or braced to meet the force and displacement requirements prescribed in the 2019 CBC Sections 1617A.1.18 through 1617A.1.26 and ASCE 7-16 Chapters 13, 26, and 30:

1. All permanent equipment and components.
2. Temporary, movable or mobile equipment that is permanently attached (e.g. hard wired) to the building utility services such as electricity, gas or water. "Permanently attached" shall include all electrical connections except plugs for 110/220 volt receptacles having a flexible cable.
3. Temporary, movable or mobile equipment which is heavier than 400 pounds or has a center of mass located 4 feet or more above the adjacent floor or roof level that directly support the component is required to be restrained in a manner approved by DSA.

The following mechanical and electrical components shall be positively attached to the structure but need not demonstrate design compliance with the references noted above. These components shall have flexible connections provided between the component and associated ductwork, piping, and conduit. Flexible connections must allow movement in both transverse and longitudinal directions:

A. Components weighing less than 400 pounds and having a center of mass located 4 feet or less above the adjacent floor or roof level that directly support the component.
B. Components weighing less than 20 pounds, or in the case of distributed systems, less than 5 pounds per foot, which are suspended from a roof or floor or hung from a wall.

The anchorage of all mechanical, electrical and plumbing components shall be subject to the approval of the design professional in general responsible charge or structural engineer delegated responsibility and acceptance by DSA. The project inspector will verify that all components and equipment have been anchored in accordance with the above requirements.

Piping, Ductwork, and Electrical Distribution System Bracing Note

Piping, ductwork, and electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7-16 Section 13.3 as defined in ASCE 7-16 Sections 13.6.5, 13.6.6, 13.6.7, 13.6.8, and 2019 CBC, Sections 1617A.1.24, 1617A.1.25 and 1617A.1.26.

The method of showing bracing and attachments to the structure for the identified distribution system are as noted below. When bracing and attachments are based on a preapproved installation guide (e.g., OSHPD OPM for 2013 CBC or later), copies of the bracing system installation guide or manual shall be available on the jobsite prior to the start of and during the hanging and bracing of the distribution systems. The Structural Engineer of Record shall verify the adequacy of the structure to support the hanger and brace loads.

NOTES - SECURITY REQUIREMENTS

DOORS

1. WOOD FLUSH-TYPE DOORS SHALL BE 1 3/8" THICK MINIMUM WITH SOLID CORE CONSTRUCTION. DOOR STOPS OF IN-SWINGING DOORS SHALL BE OF ONE-PIECE CONSTRUCTION WITH THE JAMB OR JOINED BY RABBET TO THE JAMB.
2. EVERY DOOR IN A SECURITY OPENING SHALL BE PROVIDED WITH A LIGHT BULB (60 WATT MIN.) AT A MAXIMUM HEIGHT OF 8 FEET ON THE EXTERIOR.
3. ALL PIN-TYPE DOOR HINGES ACCESSIBLE FROM OUTSIDE SHALL HAVE NON-REMOVABLE HINGES PINS. HINGES SHALL HAVE MIN. 1/4" DIA. STEEL JAMB STUD WITH 1/4" MIN. PROTECTION. THE STRIKE PLATE FOR LATCHES AND HOLDING DEVICE FOR PROJECTING DEAD BOLTS IN WOOD CONSTRUCTION SHALL BE SECURED TO THE JAMB AND THE WALL FRAMING WITH SCREWS NO LESS THAN 2-1/2" LONG.
4. PROVIDE DEAD BOLTS WITH HARDENED INSERTS; DEADLOCKING LATCH WITH KEY-OPERATED LOCKS ON EXTERIOR. LOCKS MUST BE OPENABLE FROM INSIDE WITHOUT KEY, SPECIAL KNOWLEDGE OR SPECIAL EFFORT (LATCH NOT REQUIRED IN B.F. AND S. OCCUPANCIES.
5. STRAIGHT DEAD BOLTS SHALL HAVE A MIN. THROW OF 1" AND EMBEDMENT OF NOT LESS THAN 5/8", AND A HOOK-SHAPED OR AN EXPANDING-LUG DEADBOLT SHALL HAVE A MINIMUM THROW OF 3/4".
6. THE USE OF A LOCKING SYSTEM WHICH CONSISTS OF A DEADLOCKING LATCH OPERATED BY A DOORKNOB AND A DEADBOLT OPERATED BY A NON-REMOVABLE THUMB TURN WHICH IS INDEPENDENT OF THE DEADLOCKING LATCH AND WHICH MUST BE SEPARATELY OPERATED, SHALL NOT BE CONSIDERED AS A SYSTEM WHICH REQUIRES SPECIAL KNOWLEDGE OR EFFORT. THE DOOR KNOB AND THE THUMB TURN WHICH OPERATES THE DEADBOLT SHALL NOT BE SEPARATED BY MORE THAN 8 INCHES.
7. WOOD PANEL TYPE DOORS MUST HAVE PANELS AT LEAST 9/16 IN. THICK WITH SHAPED PORTIONS NOT LESS THAN 1/4 IN. THICK AND INDIVIDUAL PANELS MUST BE NO MORE THAN 300 SQ. IN. IN AREA. MULLIONS SHALL BE CONSIDERED A PART OF ADJACENT PANELS EXCEPT MULLIONS NOT OVER 18 INCHES LONG MAY HAVE AN OVERALL WIDTH OF NOT LESS THAN 2 INCHES. STILES AND RAILS SHALL BE OF SOLID LUMBER IN THICKNESS WITH OVERALL DIMENSIONS OF NOT LESS THAN 1 3/8 INCHES AND 3 INCHES IN WIDTH.
8. SLIDING DOORS SHALL BE PROVIDED WITH A DEVICE IN THE UPPER CHANNEL OF THE MOVING PANEL TO PROHIBIT RAISING AND REMOVING OF THE MOVING PANEL IN THE CLOSED OR PARTIALLY OPEN POSITION.
9. METAL OR WOODEN OVERHEAD OR SLIDING DOORS SHALL BE SECURED WITH A CYLINDER LOCK, PADLOCKED WITH A MIN. 9/32" DIAMETER HARDENED STEEL SHACKLE AND BOLTED. HARDENED STEEL HASPS, METAL SLIDE BOARD, BOLT OR EQUIVALENT DEVICE UNLESS SECURED ELECTRICALLY OPERATED.
10. PROVIDE METAL GUIDES AT TOP AND BOTTOM OF METAL ACCORDION GRATE OR GRILLE-TYPE DOORS AND CYLINDER LOCKS OR PADLOCKS. CYLINDER GUARDS SHALL BE INSTALLED ON ALL CYLINDER LOCKS WHENEVER THE CYLINDER PROJECTS BEYOND THE FACE OF THE DOOR OR IS OTHERWISE ACCESSIBLE TO GRIPPING TOOLS.

GLAZING

1. IN B, F, M, AND S OCCUPANCIES, PANES OF GLAZING WITH AT LEAST ONE DIMENSION GREATER THAN 5 IN., BUT LESS THAN 48 IN., SHALL BE CONSTRUCTED OF TEMPERED OR APPROVED BURGLARY-RESISTANT MATERIAL OR PROTECTED WITH METAL BARS OR GRILLES.
2. GLAZED OPENINGS WITHIN 40" OF THE DOOR LOCK WHEN THE DOOR IS IN THE CLOSED POSITION, SHALL BE FULLY TEMPERED GLASS OR APPROVED BURGLARY RESISTANT MATERIAL, OR SHALL BE PROTECTED BY METAL BARS, SCREENS OR GRILLS HAVING A MAXIMUM OPENING OF 2". THE PROVISIONS OF THIS SECTION SHALL NOT APPLY TO VIEW PORTS OR WINDOWS WHICH DO NOT EXCEED 2" IN THEIR GREATEST DIMENSIONS.

NOTES - FINISH

1. PRIOR TO RECEIVING FINISHES, VERIFY SURFACES TO RECEIVE FINISHES ARE CLEAN, TRUE, AND FREE OF IRREGULARITIES. DO NOT PROCEED WITH FINISH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
2. WOOD DOORS, STAIN GRADE ARCHITECTURAL MILLWORK AND CABINETRY SHALL BE SHOP FINISHED.
3. PRIOR TO PURCHASE OR INSTALLATION OF ANY FINISH, SUBMIT (3) SAMPLES TO THE OWNER AND ARCHITECT FOR REVIEW. ALLOW TIME FOR SUBMITTAL REVIEW AND FOR RE-SUBMITTALS IF REQUIRED.
4. ORDER PRODUCT WITH LONGEST LEAD TIME FIRST, DO NOT SUBSTITUTE PRODUCT.
5. ALL FLOORING TRANSITIONS TO OCCUR AT CENTER OF DOOR, UNLESS OTHERWISE NOTED. REFER TO FLOOR TRANSITION DETAILS.
6. CONTRACTOR SHALL PROVIDE 5% ATTIC STOCK FOR ALL FINISHES.
7. FLAME CERTIFICATES ARE TO BE OBTAINED FOR ALL FINISH MATERIALS IN DUPLICATE BY CONTRACTOR, SUBMIT ONE COPY TO THE OWNER OR ARCHITECT.
8. ALL FINISHES SHALL MEET OR EXCEED LOCAL CODES.
9. ALL NEWLY INSTALLED FLOORING FINISHES SHALL BE COVERED WITH PROPERLY SECURED PLASTIC OR OTHER MATERIAL FOR PROTECTION UNTIL CONSTRUCTION IS COMPLETED.
10. INTERIOR FINISH MATERIAL APPLIED TO WALL AND CEILINGS SHALL BE TESTED AS SPECIFIED IN CBC SECTION 803. SEE TABLE 803.9 BELOW

CERAMIC TILES

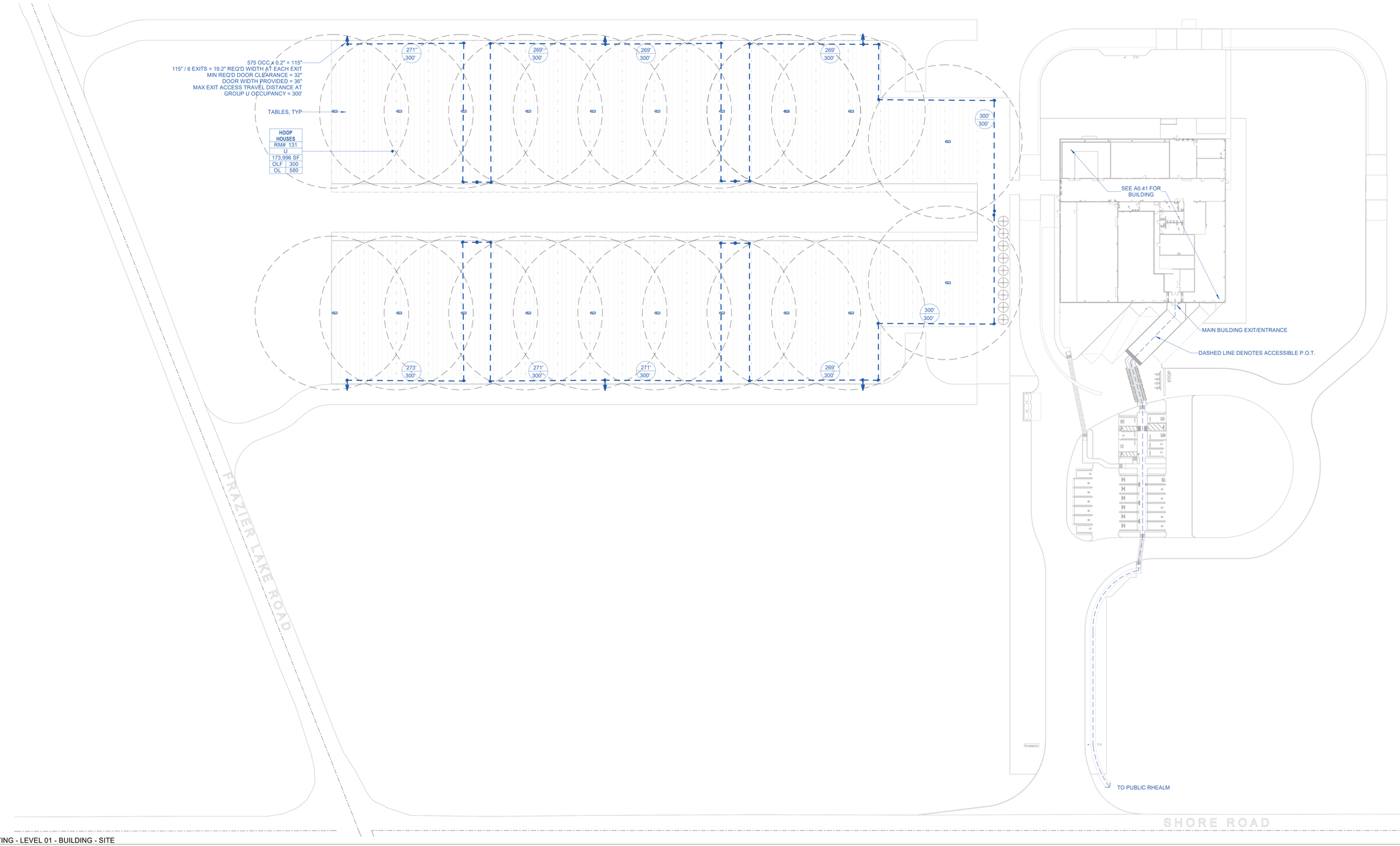
1. CERAMIC TILE SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE REFERENCE STANDARDS PUBLISHED IN THE TILE COUNCIL OF AMERICA'S "HANDBOOK FOR CERAMIC TILE INSTALLATION", AND WITH MANUFACTURERS RECOMMENDED GUIDELINES.
2. OTHER TILE TYPES: GLASS, PORCELAIN, ETC. SHALL COMPLY WITH THE MANUFACTURER'S/ DISTRIBUTOR'S INSTALLATION RECOMMENDATIONS.
3. CONTRACTOR/INSTALLER IS RESPONSIBLE FOR CORRECT INSTALLATION OF ANY SPECIFIED FLOORING TRANSITIONS.

PAINT

1. COMPLY WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS GOVERNING THE USE OF PAINT MATERIALS.
2. COMPLY WITH MANUFACTURER'S RECOMMENDATIONS FOR ENVIRONMENTAL CONDITIONS UNDER WHICH PAINTS AND COATING SYSTEMS CAN BE APPLIED.
3. PROTECT FLOORS AND ALL ADJACENT SURFACES FROM PAINT SMEARS, SPLATTERS, AND DROPPINGS, USE DROP CLOTHS TO PROTECT FLOORS AND ITEMS NOT TO BE PAINTED. MASK OFF AREAS WHERE REQUIRED.
4. CLEAN SURFACES FREE OF DUST, DIRT, OIL, GREASE AND OTHER FOREIGN MATTER PRIOR TO APPLICATION OF THE PRIME COAT
5. REPAIR ALL VOIDS, NICKS, CRACK, DENTS, ETC. WITH SUITABLE PATCHING MATERIAL AND FINISH FLUSH TO ADJACENT SURFACE.
   DO NOT APPLY PAINT WHEN CONDITIONS ARE WHERE DUST IS BEING GENERATED, OR WHEN ROOM TEMPERATURE IS BELOW 50 DEGREES F.
7. ENSURE THAT HARDWARE, COVER PLATES, AND SIMILAR ITEMS ARE REMOVED PRIOR TO PAINTING, AND REPLACED WHEN PAINTING IS COMPLETE. FAILURE TO REVIEW AND COORDINATE THE CONTRACT DOCUMENTS BY THE GENERAL CONTRACTOR WITH ALL THE SUBCONTRACTORS FOR APPLICABLE ITEMS OF THE WORK SHALL NOT RELIEVE THE RESPECTIVE RESPONSIBLE PARTY FROM PERFORMING ALL WORK REQUIRED AS PART OF THE CONTRACT.
8. WHERE THERE ARE DISCREPANCIES BETWEEN THE CONTRACT DOCUMENTS AND THE DRAWINGS, THE CONTRACTOR SHALL ADVISE THE OWNER AND THE ARCHITECT AND REQUEST A CLARIFICATION.
9. THE DRAWINGS AND SPECIFICATIONS SHALL HAVE PRECEDENCE OVER ANY ASSUMED TRADE PRACTICE TO ESTABLISH THE CONTROL AND GUIDELINES FOR FIELD LAYOUT. WHERE DISCREPANCY EXISTS BETWEEN THE DRAWING AND THE DETAIL THE CONTRACTOR SHALL NOTIFY THE OWNER OR THE ARCHITECT FOR CLARIFICATION PRIOR TO INSTALLATION.
10. WHERE DIMENSIONS ARE NOTED TO BE VERIFIED IN THE FIELD (V.I.F.) THE DIMENSION SHOWN IS THE DESIGN BASIS, BUT MAY DIFFER FROM ACTUAL CONDITIONS. CONTRACTOR SHALL VERIFY THESE DIMENSIONS PRIOR TO LAYING OUT THE WORK AND REPORT ANY DISCREPANCIES BETWEEN THE DESIGN BASIS AND ACTUAL DIMENSIONS PRIOR TO PROCEEDING WITH THE WORK. WHERE DIMENSIONS ARE NOTED "+/-" FIELD DIMENSIONS MAY VARY FROM THE NOTED DIMENSIONS BY MINOR AMOUNTS. THE TERM "MINOR" SHALL BE DEFINED AS ACCEPTABLE CONSTRUCTION AND KNOWN INDUSTRY STANDARDS SUCH AS THOSE PUBLISHED BY THE *AMERICAN CONCRETE INSTITUTE* AND OTHER SUCH ENTITIES AS MAY BE INDUSTRY ACCEPTED STANDARDS.
11. INTERIOR DETAILS ARE KEYED TO THE PLANS AT TYPICAL LOCATIONS. TYPICAL DETAILS APPLY TO ALL LOCATIONS WHICH ARE SIMILAR BUT ARE NOT OTHERWISE DETAILED. THE CONTRACTOR AND SUBCONTRACTORS ARE RESPONSIBLE TO COORDINATE THE LOCATION OF ALL TYPICAL DETAILS AND INSTALL THE WORK INDICATED. IF DISCREPANCIES EXIST OR QUALIFICATION IS REQUIRED, THE CONTRACTOR SHALL NOTIFY THE OWNER OR THE ARCHITECT FOR CLARIFICATION PRIOR TO PROCEEDING.

NOTES - FINISH CODE REQUIREMENTS

1. ALL GLAZING (INTERIOR AND EXTERIOR) TO BE TEMPERED SAFETY GLAZING.
2. ALL HORIZONTALLY PLACED GLAZING (INTERIOR AND EXTERIOR) SHALL BE LAMINATED SAFETY GALZING.
3. **WALLS & CEILINGS:** THE MAXIMUM FLAME SPREAD CLASS OF FINISH MATERIALS USED ON THE INTERIOR WALLS AND CEILINGS SHALL BE IN COMPLIANCE WITH THAT SET FORTH IN CALIFORNIA BUILDING CODE (CBC) **SECTION 803**.
4. **FLOORS:** THE MAXIMUM FLAME SPREAD CLASS OF FINISH MATERIALS USED ON THE INTERIOR FLOOR FINISH SHALL BE IN COMPLIANCE WITH THAT SET FORTH IN CALIFORNIA BUILDING CODE (CBC) **SECTION 804**.
5. **FLOOR FINISHES:** FINISHES OTHER THAN WOOD, VINYL, LINOLEUM, TERRAZZO, AND RESILIENT FLOOR COVERING SHALL PASS DOC FF-1 "PILL TEST" (CPSC 16 CRF: 1630) MINIMUM CRITICAL RADIANT FLUX OF 0.04 WATTS/CM.
6. ALL FLOOR FINISHES ON LEVEL SURFACES SHALL HAVE A SLIP RESISTANCE (DYNAMIC COEFFICIENT OF FRICTION) OF =>0.42. ALL FLOOR FINISHES ON A RAMP SHALL HAVE A SLIP RESISTANCE OF 0.60.
7. **WALL & CEILING MATERIALS:** ALL WALL & CEILING FINISH MATERIALS SHALL BE MINIMUM CLASS PER TABLE 803.9 (ASTM E-84) FLAME SPREAD OF 26-75; AND SMOKE-DEVELOPED RATING OF 0-450. ALL TEXTILE WALL COVERINGS SHALL BEAR A CLASS I FLAME SPREAD RATING. ALL FINISHES MUST HAVE A SMOKE-DEVELOPED RATING +/- 250 (ASTM E84).
8. **INSULATION:** THERMAL AND ACOUSTIC INSULATION, OTHER THAN FOAM PLASTICS, HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25. EXCEPT, **1** - INSULATION PLACED BETWEEN TWO LAYERS OF NONCOMBUSTIBLE MATERIALS WITHOUT AN INTERVENING AIRSPACE SHALL BE ALLOWED TO HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 100. **2** - INSULATION INSTALLED BETWEEN A FINISHED FLOOR AND SOLID DECKING WITHOUT INTERVENING AIRSPACE SHALL BE ALLOWED TO HAVE A FLAME S



1 A0.40 OCCUPANCY AND EXITING - LEVEL 01 - BUILDING - SITE
1" = 40'-0"

OCCUPANT LOAD SCHEDULE - HOOP HOUSES

RM#	ROOM NAME	AREA	OCCUPANCY	OCCUPANCY LOAD FACTOR	OCCUPANT LOAD
LEVEL 1					
131	HOOP HOUSES	173,996 SF	U	300	580
		173,996 SF			580
Grand total		173,996 SF			580

OCCUPANCY REVIEW SUMMARY

EXIT CALCULATIONS PER CBC 1005.3
MIN REQUIRED CAPACITY
STAIRS = 0.3" PER OCCUPANT (0.2"PER OCC IF BUILDING IS EQUIPPED WITH AN AUTOMATIC PRINKLER SYSTEM AND VOICE/ALARM COMMUNICATION PER 907.5.2.2)
EGRESS COMPONENTS OTHER THAN STAIRS = 0.2" PER OCCUPANT (0.15" PER OCC IF BUILDING IS EQUIPPED WITH AN AUTOMATIC PRINKLER SYSTEM AND VOICE/ALARM COMMUNICATION PER 907.5.2.2)

MINIMUM STAIRWAY WIDTH
OCC. x 0.3 = XX" MINIMUM STAIRWAY WIDTH REQUIRED
MINIMUM XX" STAIRWAY WIDTH PROVIDED

OTHER EGRESS COMPONENTS (DOOR WIDTH)
OCC. x 0.2 = XX" MINIMUM DOOR WIDTH REQUIRED
MINIMUM XX" DOOR WIDTH PROVIDED

FIRE EXTINGUISHER LEGEND

FIRE CLASSIFICATION HAZARD LEVEL (OCCUPANCY)	EXTINGUISHER UL RATING	MAX TRAVEL DISTANCE
CLASS A, B, C LIGHT (LOW) HAZARD (LOBBY / OFFICE)	2A:10B:C	75'-0"
	SURFACE MOUNTED FIRE EXTINGUISHERS ON WALL	
CLASS A, B, C MODERATE HAZARD (PRODUCTION / WAREHOUSE)	2A:20B:C	75'-0"
	SURFACE MOUNTED FIRE EXTINGUISHERS ON WALL	

NOTES - OCCUPANCY

ABBREVIATIONS (NOT ALL MAY BE USED):
AU - ACCESSORY USE
OCC - OCCUPANCY
OL - OCCUPANT LOAD
OLF - OCCUPANT LOAD FACTOR
F.E.C. - FIRE EXTINGUISHER CABINET (PORTABLE FIRE EXTINGUISHER)
FAPB - FIRE ALARM PULL BOX
FASA - COMBINATION VISUAL FIRE ALARM & STROBE ALARM. HARDWIRED AND BATTERY OPERATED AND WIRED TO MANUAL PULL BOX FIRE ALARM SYSTEM
SDFA - MULTIPLE-STATION COMBINATION SMOKE DETECTOR, AUDIBLE & VISUAL ALARM. HARDWIRED AND BATTERY OPERATED AND WIRED TO MANUAL PULL BOX FIRE ALARM SYSTEM

1. **CBC 1007.1.1 TWO EXITS OR EXIT ACCESS DOORWAYS** - WHERE TWO EXITS OR EXIT ACCESS DOORWAYS ARE REQUIRED FROM ANY PORTION OF THE EXIT ACCESS, THE EXIT DOOR OR EXIT ACCESS DOORWAY SHALL BE A DISTANCE APART EQUAL TO NOT LESS THAN ONE-HALF OF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE BUILDING OR AREA TO BE SERVED MEASURED IN A STRAIGHT LINE BETWEEN EXIT DOORS OR EXIT ACCESS DOORWAYS. INTERLOCKING OR SCISSOR STAIR SHALL BE COUNTED AS ONE EXIT STAIRWAY. EXCEPTION 2: WHERE A BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1 OR 903.3.1.2, THE SEPARATION DISTANCE OF THE EXIT DOOR OR EXIT ACCESS DOORWAYS SHALL NOT BE LES THAN ONE -THIRD OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE AREA SERVED.
2. **2022 CBC 1010.1.2 EGRESS DOOR TYPES** - EGRESS DOORS SHALL BE OF THE SIDE-HINGED SWINGING DOOR, PIVOTED DOOR, OR BALANCED DOOR TYPES. EXCEPTION: PRIVATE GARAGES, OFFICE AREAS, FACTORY AND STORAGE AREAS WITH AN OCCUPANT LOAD OF 10 OR LESS.
3. **CBC 1023.2 WIDTH** - THE MINIMUM WIDTH OF EXIT PASSAGEWAYS SHALL BE DETERMINED AS SPECIFIED IN SECTION 1005.1 BUT SUCH WIDTH SHALL NOT BE LESS THAN 44 INCHES, EXCEPT THAT EXIT PASSAGEWAYS SERVING AN OCCUPANT LOAD OF LESS THAN 50 SHALL NOT BE LESS THAN 36 INCHES IN WIDTH. THE REQUIRED WIDTH OF EXIT PASSAGEWAYS SHALL BE UNOBSTRUCTED.
4. **CBC 1015.1 SPACES WITH ONE EXIT** - EXITS FROM SPACES A & B OCCUPANCY SPACES WITH ONE EXIT HAVE A MAXIMUM OCCUPANT LOAD OF 49.
5. **CBC 1017.2 EXIT ACCESS TRAVEL DISTANCE** - OCCUPANCY GROUP F-1 WITH SPRINKLER SYSTEM SHALL HAVE A MAX TRAVEL DISTANCE OF 250 FEET. OCCUPANCY GROUP U WITHOUT SPRINKLERS SHALL HAVE A MAX TRAVEL DISTANCE OF 300 FEET.
6. ANY TIME A BUILDING OR A PORTION OF A BUILDING IS OCCUPIED, THE MEANS OF EGRESS SERVING THE OCCUPIED PORTION SHALL BE ILLUMINATED AT AN INTENSITY OF NOT LESS THAN 1-FOOT-CANDLE (11LUX) AT THE WALKING SURFACE LEVEL.
7. **1020.4 DEAD ENDS** - WHERE MORE THAN ONE EXIT OR EXIT ACCESS DOORWAY IS REQUIRED MAX 20 FEET IN LENGTH. IN OCCUPANCIES IN GROUPS B,E,F,I-1, M, R-1, R-2, R-4, S AND U, WHERE THE BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1, THE LENGTH OF THE DEAD-END CORRIDOR SHALL NOT EXCEED 50 FEET . A DEAD-END CORRIDOR SHALL NOT BE LIMITED IN LENGHT WHERE THE LENGTH OF THE DEAD-END CORRIDOR IS LESS THAN 2.5 TIMES THE LEAST WIDTH OF THE DEAD-END CORRIDOR.
8. ACCESSIBLE ROUTE EXEMPTION FOR LEVEL 02 (VERTICAL TRANSPORTATION ELEVATOR) 11B-206.2.3 MULTI-STORY BUILDINGS AND FACILITIES.AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT EACH STORY AND MEZZANINE IN MULTI-STORY BUILDINGS AND FACILITIES. EXEMPTIONS:1. THE FOLLOWING TYPES OF PRIVATELY FUNDED MULTI-STORY BUILDINGS DO NOT REQUIRE A RAMP OR ELEVATOR ABOVE AND BELOW THE FIRST FLOOR:1.1 MULTI-STORIED OFFICE BUILDINGS (OTHER THAN THE PROFESSIONAL OFFICE OF A HEALTH CARE PROVIDER) AND PASSENGER VEHICLE SERVICE STATIONS LESS THAN THREE STORIES HIGH OR LESS THAN 3,000 SQUARE FEE PER STORY (CBC 2022 CODE REFERENCE).
9. **CBC 1007.1.1.1 MEASUREMENT POINT** - THE SEPARATION DISTANCE REQUIRED IN SECTION 1007.1.1 SHALL BE MEASUREED IN ACCORDANCE WITH THE FOLLOWING: 1. THE SEPARATION DISTANCE TO EXIT OR EXIT ACCESS DOORWAYS SHALL BE MEASURED TO ANY POINT ALONG THE WIDTH OF THE DOORWAY.
10. **CBC 1022.1 EXIT PROTECTION** - ONCE A LEVEL OF EXIT PROTECTION IS ACHIEVED, SUCH LEVEL OF PROTECTION SHALL NOT BE REDUCED UNTIL ARRIVAL AT THE EXIT DISCHARGE.
11. **1011.7.3 ENCLOSURES UNDER INTERIOR STAIRWAYS** - THE WALLS AND SOFFITS WITHIN ENCLOSED USABLE SPACES UNDER ENCLOSED AND UNENCLOSED STAIRWAYS SHALL BE PROTECTED BY 1-HOUR FIRE-RESISTANCE-RATED CONSTRUCTION OR THE FIRE-RESISTANCE RATING OF THE STAIRWAY ENCLOSURE, WHICHEVER IS GREATER. ACCESS TO THE ENCLOSED SPACE SHALL NOT BE DIRECTLY FROM WITHIN THE STAIRWAY ENCLOSURE. EXCEPTION: SPACES UNDER STAIRWAYS SERVING AND CONTAINED WITHIN A SINGLE RESIDENTIAL DWELLING UNIT IN GROUP R-2 OR R-3 SHALL BE PERMITTED TO BE PROTECTED ON THE ENCLOSED SIDE WITH 1/2-INCH (12.7 MM) GYPSUM BOARD.

LEGEND - OCCUPANCY SYMBOLS

FIRE ALARM HORN/STROBE — FA SA — MIN 6'-6" A.F.F. IN NON-OBSTRUCTED AREAS

COMMON PATH OF TRAVEL — 80 — COMMON PATH OF EGRESS TRAVEL DISTANCE, IN FEET

EXITING - LOADS — DOOR / XX / 34" / 34" — EXITING FACILITY; OCCUPANT LOAD; REQUIRED WIDTH DOOR: .2"/OCC., 36" MIN STAIR: .3"/OCC., 44" MIN; WIDTH PROVIDED

EXITING OCCUPANTS — NUMBER OF OCCUPANTS 40 / NAME EXIT 4 — WIDTH PROVIDED 36" / WIDTH REQUIRED 34"

EXIT SIGNAGE INSTALL PER 2022 CBC 1013 — EXIT SIGN (FRONT); EXIT SIGN (SIDE)

EXIST ACCESS TRAVEL DISTANCE — 60' — TRAVEL DISTANCE IN FEET. REFER TO MAXIMUM EXIT ACCESS TRAVEL DISTANCE PER CBC 1017.2

FIRE ALARM PULL BOX — F — INSTALL PER 2022 CBC 907.4.2.2. 42"-48" A.F.F. TO HIGHTEST POINT OF HANDLE

OCCUPANCY TAG — Room Name / RM# 101 / S1 / 150 SF / OLF 150 / OL 1 — ROOM NUMBER; USE/OCC. TYPE; SQUARE FOOTAGE; OCCUPANT LOAD FACTOR

PORTABLE FIRE EXTINGUISHER — INSTALL PER 2022 CBC 906.1

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PASADENA, CA 91105
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ARCHITECT: BALIAN ARCHITECTS, INC., 21 Miller Alley, Suite 210, Pasadena CA 91105, www.balianarchitects.com, T: 213.377.5500, Contact: David Balian, E-Mail: david@balianarchitects.com
OWNER'S CONSULTANTS
CIVIL: KELLEY ENGINEERING & SURVEYING, 400 Park Center Drive, Suite #4, Hollister, CA 95026, www.kelley-engineering.com, T: 831.636.1104, Contact: Matt Kelley, E-Mail: matt@kelley-engineering.com
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PRE-FAB BLDG: STEEL SOLUTIONS, INC., P.O. Box 2566, Hollister, CA 95024, www.steelsi.com, T: 831-901-4059, Contact: Royce Bowles, E-Mail: Royce@steelsi.com

HIPPO HARVEST
HOLLISTER, CA
2370 SHORE ROAD
HOLLISTER, CA 95023
REF. PLAN CHECK # XXXXX

FOR REFERENCE ONLY

NAME:
LICENSE NUMBER:
SIGNATURE DATE:

ISSUE DATE:	JUNE 27, 2025
PROJ #:	25.003
TIME STAMP:	6/29/2025 2:49:32 PM
FILE:	Autodesk Docs://Hippo Harvest Hollister/R23_HIPPO HARVEST HOLLISTER - ARCH v2.rvt

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REVISIONS

#	DATE	ISSUE
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SHEET TITLE :
OCCUPANCY & EXITING PLAN - SITE

IF THIS SHEET IS NOT 30"x42" IT IS A REDUCED PRINT
THIS SHEET IS INTENDED TO BE VIEWED IN COLOR

SHEET NO:
A0.40
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BID SET #1 - ADDENDUM 2

2022 California Building Code, Title 24, Part 2 (Volumes 1 & 2) with July 2024 Supple

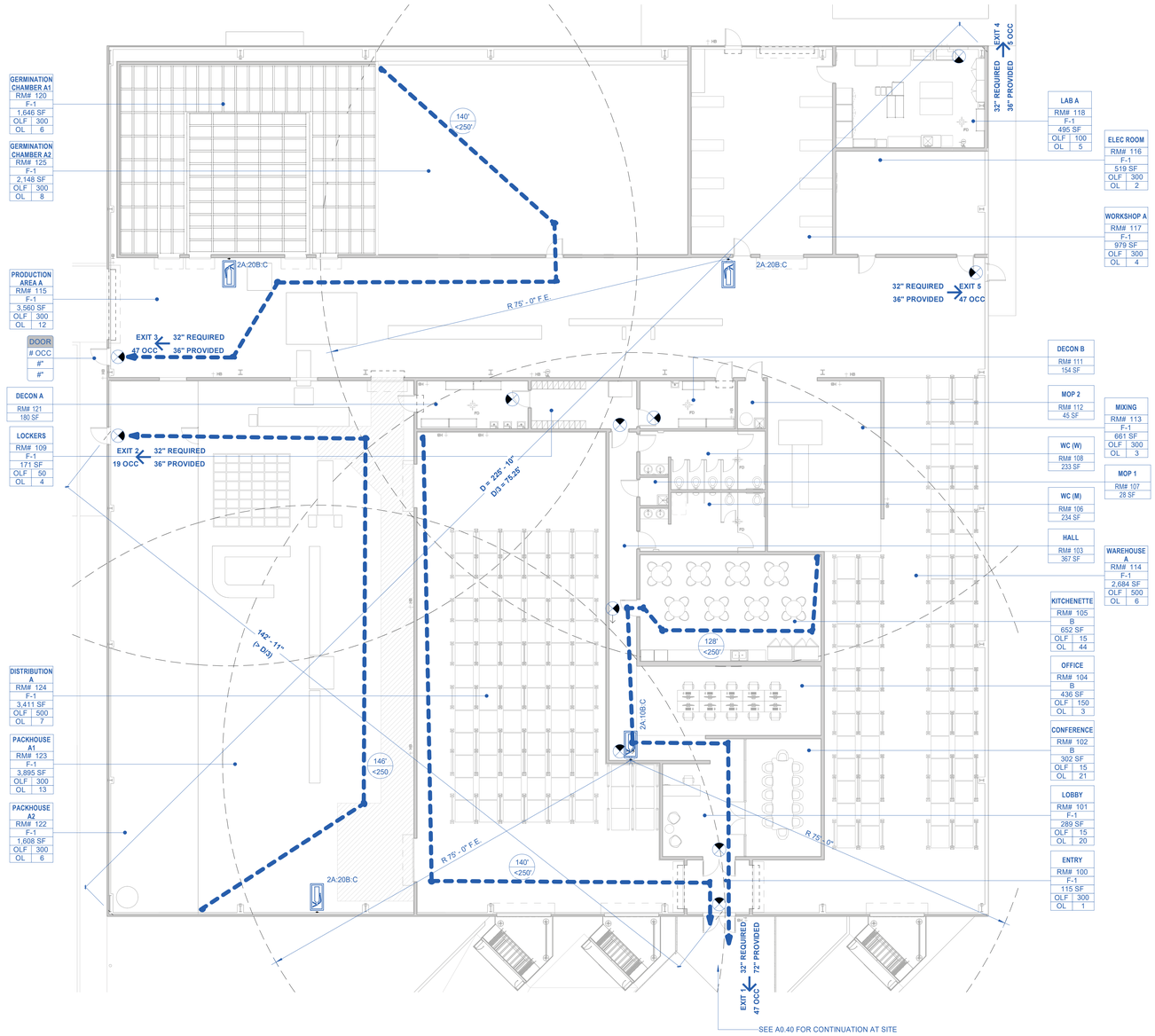
CHAPTER 10 MEANS OF EGRESS

TABLE 1004.5
MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT

FUNCTION OF SPACE	OCCUPANT LOAD FACTOR[a]
Accessory storage areas, mechanical equipment room	300 gross
Agricultural building	300 gross
Aircraft hangars	500 gross
Airport terminal	
Baggage claim	20 gross
Baggage handling	300 gross
Concourse	100 gross
Waiting areas	15 gross
Assembly	
Gaming floors (keno, slots, etc.)	11 gross
Exhibit gallery and museum	30 net
Assembly with fixed seats	See Section 1004.6
Assembly without fixed seats	
Concentrated (chairs only—not fixed)	7 net
Standing space	5 net
Unconcentrated (tables and chairs)	15 net
Bowling centers, allow 5 persons for each lane including 15 feet of runway, and for additional areas	7 net
Business areas	150 gross
Concentrated business use areas	See Section 1004.8
Courtrooms—other than fixed seating areas	40 net
Day care	35 net
Dormitories	50 gross
Educational	
Classroom area	20 net
Shops and other vocational room areas	50 net
Exercise rooms	50 gross
Group H-5 fabrication and manufacturing areas	200 gross
Industrial areas	100 gross
Institutional areas	
Inpatient treatment areas	240 gross
Outpatient areas	100 gross
Sleeping areas	120 gross
Kitchens, commercial	200 gross
Laboratory	
Educational (K–12th grade)	*50 net*
Laboratories, non-educational	*100 net*
Laboratory suite[b]	*200 gross*
Library	
Reading rooms	50 net
Stack area	100 gross
Locker rooms	50 gross
Mall buildings—covered and open	See Section 402.8.2
Mercantile	60 gross
Storage, stock, shipping areas	300 gross
Parking garages	200 gross
Residential	200 gross
Skating rinks, swimming pools	
Rink and pool	50 gross
Decks	15 gross
Stages and platforms	15 net
Warehouses	500 gross

For SI: 1 foot = 304.8 mm, 1 square foot = 0.0929 m².

a. Floor area in square feet per occupant.
b. See Section 453.2.
c. See Table 408.3.1 for I-3 facilities.



1 A0.41 OCCUPANCY AND EXITING - LEVEL 01 - BUILDING
1" = 10'-0"

OCCUPANT LOAD SCHEDULE - BUILDING

RM#	ROOM NAME	AREA	OCCUPANCY	OCCUPANCY LOAD FACTOR	OCCUPANT LOAD
Not Placed					
119	ELEC RM.	Not Placed	F-1	300	
		0 SF			0
LEVEL 1					
104	OFFICE	436 SF	B	150	3
102	CONFERENCE	302 SF	B	15	21
105	KITCHENETTE	652 SF	B	15	44
		1,390 SF			68
120	GERMINATION CHAMBER A1	1,646 SF	F-1	300	6
117	WORKSHOP A	979 SF	F-1	300	4
123	PACKHOUSE A1	3,895 SF	F-1	300	13
113	MIXING	661 SF	F-1	300	3
115	PRODUCTION AREA A	3,560 SF	F-1	300	12
118	LAB A	495 SF	F-1	100	5
124	DISTRIBUTION A	3,411 SF	F-1	500	7
114	WAREHOUSE A	2,684 SF	F-1	500	6
116	ELEC ROOM	519 SF	F-1	300	2
101	LOBBY	289 SF	F-1	15	20
109	LOCKERS	171 SF	F-1	50	4
122	PACKHOUSE A2	1,608 SF	F-1	300	6
125	GERMINATION CHAMBER A2	2,148 SF	F-1	300	8
100	ENTRY	115 SF	F-1	300	1
Grand total		23,570 SF			165
		22,180 SF			97

OCCUPANCY REVIEW SUMMARY

EXIT CALCULATIONS PER CBC 1005.3
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MINIMUM STAIRWAY WIDTH
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MINIMUM XX" STAIRWAY WIDTH PROVIDED

OTHER EGRESS COMPONENTS (DOOR WIDTH)
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MINIMUM XX" DOOR WIDTH PROVIDED

FIRE EXTINGUISHER LEGEND

FIRE CLASSIFICATION HAZARD LEVEL (OCCUPANCY)	EXTINGUISHER UL RATING	MAX TRAVEL DISTANCE
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NOTES - OCCUPANCY

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2. **2022 CBC 1010.1.2 EGRESS DOOR TYPES** - EGRESS DOORS SHALL BE OF THE SIDE-HINGED SWINGING DOOR, PIVOTED DOOR, OR BALANCED DOOR TYPES. EXCEPTION: PRIVATE GARAGES, OFFICE AREAS, FACTORY AND STORAGE AREAS WITH AN OCCUPANT LOAD OF 10 OR LESS.
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5. **CBC 1017.2 EXIT ACCESS TRAVEL DISTANCE** - OCCUPANCY GROUP F-1 WITH SPRINKLER SYSTEM SHALL HAVE A MAX TRAVEL DISTANCE OF 250 FEET. OCCUPANCY GROUP U WITHOUT SPRINKLERS SHALL HAVE A MAX TRAVEL DISTANCE OF 300 FEET.
6. ANY TIME A BUILDING OR A PORTION OF A BUILDING IS OCCUPIED, THE MEANS OF EGRESS SERVING THE OCCUPIED PORTION SHALL BE ILLUMINATED AT AN INTENSITY OF NOT LESS THAN 1-FOOT-CANDLE (11LUX) AT THE WALKING SURFACE LEVEL.
7. **1020.4 DEAD ENDS** - WHERE MORE THAN ONE EXIT OR EXIT ACCESS DOORWAY IS REQUIRED MAX 20 FEET IN LENGTH. IN OCCUPANCIES IN GROUPS B,E,F,I-1, M, R-1, R-2, R-4, S AND U, WHERE THE BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1, THE LENGTH OF THE DEAD-END CORRIDOR SHALL NOT EXCEED 50 FEET . A DEAD-END CORRIDOR SHALL NOT BE LIMITED IN LENGHT WHERE THE LENGTH OF THE DEAD-END CORRIDOR IS LESS THAN 2.5 TIMES THE LEAST WIDTH OF THE DEAD-END CORRIDOR.
8. ACCESSIBLE ROUTE EXEMPTION FOR LEVEL 02 (VERTICAL TRANSPORTATION ELEVATOR) 11B-206.2.3 MULTI-STORY BUILDINGS AND FACILITIES.AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT EACH STORY AND MEZZANINE IN MULTI-STORY BUILDINGS AND FACILITIES. EXEMPTIONS:1. THE FOLLOWING TYPES OF PRIVATELY FUNDED MULTI-STORY BUILDINGS DO NOT REQUIRE A RAMP OR ELEVATOR ABOVE AND BELOW THE FIRST FLOOR:1.1 MULTI-STORIED OFFICE BUILDINGS (OTHER THAN THE PROFESSIONAL OFFICE OF A HEALTH CARE PROVIDER) AND PASSENGER VEHICLE SERVICE STATIONS LESS THAN THREE STORIES HIGH OR LESS THAN 3,000 SQUARE FEE PER STORY (CBC 2022 CODE REFERENCE).
9. **CBC 1007.1.1.1 MEASUREMENT POINT** - THE SEPARATION DISTANCE REQUIRED IN SECTION 1007.1.1 SHALL BE MEASUREED IN ACCORDANCE WITH THE FOLLOWING: 1. THE SEPARATION DISTANCE TO EXIT OR EXIT ACCESS DOORWAYS SHALL BE MEASURED TO ANY POINT ALONG THE WIDTH OF THE DOORWAY.
10. **CBC 1022.1 EXIT PROTECTION** - ONCE A LEVEL OF EXIT PROTECTION IS ACHIEVED, SUCH LEVEL OF PROTECTION SHALL NOT BE REDUCED UNTIL ARRIVAL AT THE EXIT DISCHARGE.
11. **1011.7.3 ENCLOSURES UNDER INTERIOR STAIRWAYS** - THE WALLS AND SOFFITS WITHIN ENCLOSED USABLE SPACES UNDER ENCLOSED AND UNENCLOSED STAIRWAYS SHALL BE PROTECTED BY 1-HOUR FIRE-RESISTANCE-RATED CONSTRUCTION OR THE FIRE-RESISTANCE RATING OF THE STAIRWAY ENCLOSURE, WHICHEVER IS GREATER. ACCESS TO THE ENCLOSED SPACE SHALL NOT BE DIRECTLY FROM WITHIN THE STAIRWAY ENCLOSURE. EXCEPTION: SPACES UNDER STAIRWAYS SERVING AND CONTAINED WITHIN A SINGLE RESIDENTIAL DWELLING UNIT IN GROUP R-2 OR R-3 SHALL BE PERMITTED TO BE PROTECTED ON THE ENCLOSED SIDE WITH 1/2-INCH (12.7 MM) GYPSUM BOARD.

LEGEND - OCCUPANCY SYMBOLS

FIRE ALARM HORN/STROBE — FA SA — MIN 6'-6" A.F.F. IN NON-OBSTRUCTED AREAS

COMMON PATH OF TRAVEL — 80 — COMMON PATH OF EGRESS TRAVEL DISTANCE, IN FEET

EXITING - LOADS — DOOR / XX / 34" / 34" — EXITING FACILITY; OCCUPANT LOAD; REQUIRED WIDTH DOOR: 2"/OCC., 36" MIN STAIR: .3"/OCC., 44" MIN; WIDTH PROVIDED

EXITING OCCUPANTS — NUMBER OF OCCUPANTS 40 — WIDTH PROVIDED 36"; NAME EXIT 4 — WIDTH REQUIRED 34"

EXIT SIGNAGE INSTALL PER 2022 CBC 1013 — EXIT SIGN (FRONT); EXIT SIGN (SIDE)

EXIST ACCESS TRAVEL DISTANCE — 60' — TRAVEL DISTANCE IN FEET. REFER TO MAXIMUM EXIT ACCESS TRAVEL DISTANCE PER CBC 1017.2

FIRE ALARM PULL BOX — F — INSTALL PER 2022 CBC 907.4.2.2. 42"-48" A.F.F. TO HIGHTEST POINT OF HANDLE

OCCUPANCY TAG — Room Name / RM# 101 / S1 / 150 SF / OLF 150 / OL 1 — ROOM NUMBER; USE/OCC. TYPE; SQUARE FOOTAGE; OCCUPANT LOAD FACTOR

PORTABLE FIRE EXTINGUISHER — INSTALL PER 2022 CBC 906.1

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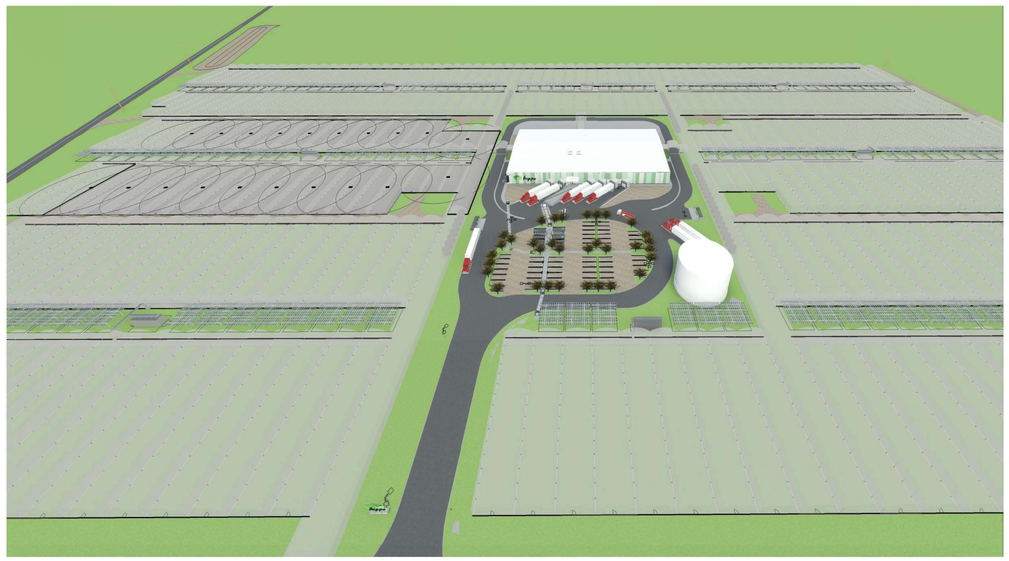

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DIVISION 26 - ELECTRICAL

AV BOX - WALL RECESSED

LOCATION	AT CONSULT BEHIND DISPLAYS
MANUFACTURER	ARLINGTON
STYLE / MODEL	TVBS507
COLOR / FINISH	
NOTES:	SEE INTERIOR ELEVATIONS & POWER PLAN SEE FOLLOW UP ROOM ELEVATION (J-BOX ONLY)

ASSISTIVE-LISTENING SYSTEM

AL-1

LOCATION	CONFERENCE ROOM - FURNISHED BY OWNER
MANUFACTURER	WILLIAM SOUND
STYLE / MODEL	PKT 2.0 POCKETALKER PERSONAL AMPLIFIER
COLOR / FINISH	
NOTES:	4.9" x 2"W x 12"H, WITH (2) AAA BATTERIES WITH HEADPHONE JACK AND MICROPHONE JACK SEE ACCESSIBILITY DIAGRAMS AND FF&E PLANS FURNISHED BY OWNER

CBC 11B-219.5:
PERMANENTLY INSTALLED ASSISTIVE-LISTENING SYSTEMS ARE REQUIRED IN AREAS IF (1) THEY ACCOMMODATE AT LEAST 50 PERSONS OR IF THEY HAVE AUDIO-AMPLIFICATION SYSTEMS, AND (2) THEY HAVE FIXED SEATING. IF PORTABLE ASSISTIVE-LISTENING SYSTEMS ARE USED FOR CONFERENCE OR MEETING ROOMS, THE SYSTEM MAY SERVE MORE THAN ONE ROOM. AN ADEQUATE NUMBER OF ELECTRICAL OUTLETS OR OTHER SUPPLEMENTARY WIRING NECESSARY TO SUPPORT A PORTABLE ASSISTIVE-LISTENING SYSTEM SHALL BE PROVIDED.

DIVISION 22 - PLUMBING

COMBO WASHER DRYER

LOCATION	LOCKER ROOM
MANUFACTURER	UNIMAC
STYLE / MODEL	UST50, 50 LB CAPACITY
COLOR / FINISH	
NOTES:	34.4" W X 51.3" D X 84.3" H G.C. TO COORDINATE WATER INLET AND DRAIN GAS CONNECTION 1/2 NPT, ELEC SPECS: 200-240V/50/60/3 AIR OUTLET 10" ELIPTICAL , EXHAUST TO ROOF

FOOD WASTE DISPOSAL (KITCHENETTE)

LOCATION	KITCHENETTE
MANUFACTURER	INSINKERATOR
STYLE / MODEL	BADGER 5
COLOR / FINISH	
NOTES:	1/2 HP, 120V COORDINATE WITH ACCESSIBLE KNEE CLEARANCE UNDER SINK

DISHWASHER (KITCHENETTE)

LOCATION	KITCHENETTE
MANUFACTURER	SUMMIT
STYLE / MODEL	DW2435SSADA - ACCESSIBLE UNDERCOUNTER
COLOR / FINISH	
NOTES:	32"H x 23.5"W x 22.38"D COORDINATE WITH MILLWORK

DISHWASHER (LAB)

LOCATION	KITCHENETTE
MANUFACTURER	FRIGIDAIRE
STYLE / MODEL	FDPC4221AS
COLOR / FINISH	
NOTES:	32.5"H x 24"W x 25"D

ACCESSIBLE TOILET

LOCATION	RESTROOMS
MANUFACTURER	AMERICAN STANDARD
STYLE / MODEL	MADERA ELONGATED TOILET W/TOP SPUD #3451660.020
COLOR / FINISH	
NOTES:	1.28 GPF SELECTRONIC FLUSHOMETER #6065121.002 PROVIDE ELONGATED OPEN FRONT SEAT #5901100.020 HEAVY-DUTY COMMERCIAL MAX 19" A.F.F. TO TOP OF SEAT, SEE ACCESSIBILITY STANDARDS

ACCESSIBLE URINAL

LOCATION	RESTROOMS
MANUFACTURER	AMERICAN STANDARD
STYLE / MODEL	PINTBROOK TOP SPUD URINAL #6002001.020
COLOR / FINISH	
NOTES:	0.5 GPF SELECTRONIC FLUSHOMETER #6063051.002 MOUNT AT ACCESSIBLE HEIGHT, SEE ACCESSIBILITY STANDARDS HEAVY-DUTY COMMERCIAL

RESTROOM ACCESSIBLE UNDERMOUNT SINK BASIN

LOCATION	RESTROOMS
MANUFACTURER	KOHLER
STYLE / MODEL	LADENA K-2215 UNDERMOUNT
COLOR / FINISH	WHITE
NOTES:	COORDINATE WITH ACCESSIBLE KNEE CLEARANCE 20-5/8"L x 13-5/8"W x 4-5/8"D

RESTROOM FAUCET

LOCATION	RESTROOMS
MANUFACTURER	KOHLER
STYLE / MODEL	STRAYT
COLOR / FINISH	POLISHED CHROME
NOTES:	0.5 GPM AC OR DC POWER

KITCHENETTE UNDERMOUNT SINK

LOCATION	KITCHENETTE
MANUFACTURER	ELKAY
STYLE / MODEL	ELUHAD281655PD
COLOR / FINISH	LUSTERSTONE CLASSIC STAINLESS STEEL
NOTES:	30-1/2"L x 18-1/2"W x 5-3/8"D COORDINATE WITH ACCESSIBLE KNEE CLEARANCE

KITCHENETTE FAUCET

LOCATION	KITCHENETTE
MANUFACTURER	KOHLER
STYLE / MODEL	PURIST PULL-OUT FACUET K-7505
COLOR / FINISH	POLISHED CHROME
NOTES:	1.5 GPM

COMBO DRENCH SHOWER/EYEWASH UNIT

LOCATION	PRODUCTION & LAB
MANUFACTURER	BRADLEY
STYLE / MODEL	S19-310
COLOR / FINISH	
NOTES:	WITH EFX60 EMERGENCY THERMOSTATIC MIXING VALVE

SERVICE FAUCET

LOCATION	
MANUFACTURER	T&S BRASS
STYLE / MODEL	SERVICE SINK FAUCET/B-0665-BSTR
COLOR / FINISH	ROUGH CHROME PLATED FINISH
NOTES:	VACUUM BREAKER NOZZLE 3/4" GARDEN HOSE THREAD & PAIL HOOK BUILT IN SCREWDRIVER STOPS 8" CENTERS

MOP SINK

LOCATION	
MANUFACTURER	ADVANCE TABCO
STYLE / MODEL	MOP SINK/9-OP-20-X
COLOR / FINISH	STAINLESS STEEL
NOTES:	FLOOR MOUNTED 25"W X 21"D (OVERALL) 20"W X 16" FRONT-TO-BACK X 6" DEEP (BOWL SIZE) FREE FLOW DRAIN W/ 2" IPS OUTLET

HAND SINK (DECONTAMINATION ROOMS)

LOCATION	PER PLAN
MANUFACTURER	ROYAL INDUSTRIES
STYLE / MODEL	SPACE SAVER HAND SINK/ROY HS 12 SP
COLOR / FINISH	STAINLESS STEEL
NOTES:	COLOR CODED HOT AND COLD INDICATORS OC SPALSH MOUNT, WALL BRACKET INCLUDED

DECK MOUNT FAUCET (LAB)

LOCATION	LAB
MANUFACTURER	FISHER
STYLE / MODEL	FAUCET/3513
COLOR / FINISH	
NOTES:	4" C/C DECK MOUNT MIXING VALVE 12' SWING SPOUT 1/2" INLETS

SINK (LAB)

LOCATION	LAB
MANUFACTURER	ADVANCE TABCO
STYLE / MODEL	T9-1-24-RorL
COLOR / FINISH	
NOTES:	OVERALL DIMS: 43"L x 27"W x 37"H BOWL DIMS: 20"x16"

FLOOR SINK

LOCATION	
MANUFACTURER	WATTS
STYLE / MODEL	SANITARY FLOOR SINK/FS-730
COLOR / FINISH	WHITE PORCELAIN INTERIOR/PORCELAIN ENAMEL CAST IRON GRATE
NOTES:	12" SQUARE X 6" DEEP ALUMINUM DOME BOTTOM STRAINER NO HUB (STANDARD) OUTLET

FLOOR & SHOWER DRAINS

LOCATION	
MANUFACTURER	JAY R. SMITH MFG CO.
STYLE / MODEL	FLOOR & SHOWER DRAINS WITH ADJUSTABLE STRAINER HEADS
COLOR / FINISH	CAST IRON BODY W/ ADJUSTABLE STRAINER HEAD
NOTES:	ROUND TOP STRAINER HEAD FOR POURED FINISHED FLOORS REVERSIBLE FLASHING COLLAR ADJUSTS TO FINISHED FLOOR LEVEL CAULK OR THREADED OUTLET

STRAINER HEADS

LOCATION	
MANUFACTURER	JAY R. SMITH MFG CO.
STYLE / MODEL	ROUND STRAINER/A05NB
COLOR / FINISH	CHROME PLATED/POLISHED BRONZE/NICKEL BRONZE
NOTES:	VARIATIONS: HINGED GRATE SEDIMENT BUCKET VANDAL PROOF SCREWS

DIVISION 12 - FURNISHINGS

MICROWAVE (KITCHENETTE)

LOCATION	KITCHENETTE
MANUFACTURER	TBD BY OWNER
STYLE / MODEL	TBD BY OWNER
COLOR / FINISH	
NOTES:	CONFIRM QUANTITY WITH OWNER

COFFEE MAKER (KITCHENETTE)

LOCATION	KITCHENETTE
MANUFACTURER	TBD BY OWNER
STYLE / MODEL	TBD BY OWNER
COLOR / FINISH	
NOTES:	CONFIRM QUANTITY WITH OWNER G.C. TO COORDINATE WATER LINE(S) AS NEEDED

REFRIGERATOR (KITCHENETTE)

LOCATION	KITCHENETTE
MANUFACTURER	TRUE
STYLE / MODEL	T-49-HC
COLOR / FINISH	
NOTES:	54-1/8" x 29-1/2" x 78"H VOLTAGE: 115/60/1, 1/2 HP

INCUBATOR (LARGE)

LOCATION	LAB
MANUFACTURER	NVR
STYLE / MODEL	LARGE FORCED AIR MICROBIOLOGICAL INCUBATOR
COLOR / FINISH	
NOTES:	28"H x 18"W x 21"D 120V

INCUBATOR (SMALL)

LOCATION	LAB
MANUFACTURER	COLE-PARMER
STYLE / MODEL	THERMO SCIENTIFIC HERATHERM IMC18 INCUBATOR
COLOR / FINISH	
NOTES:	18-1/2"D x 16-5/16"H x 10-1/4"W 0.6 CU.F.T., MECHANICAL; 100-230V

AUTOCLAVE

LOCATION	LAB
MANUFACTURER	HOGENTOGLER
STYLE / MODEL	BENCHMARK B4000-18 BIOCLAVE
COLOR / FINISH	
NOTES:	22"W x 17.5"D x 15.7"H 18 LITER 115 OR 230V, 50-60HZ, 1600W

FUME HOOD

LOCATION	LAB
MANUFACTURER	AIR SCIENCE - PURAIR
STYLE / MODEL	BASIC XT DUCTLESS FUME HOOD P5-48-XTS
COLOR / FINISH	
NOTES:	48"W x 24"D x 35"H 18 LITER 115 OR 230V, 50-60HZ, 1600W

LAMINAR FLOW HOOD

LOCATION	LAB
MANUFACTURER	AIR SCIENCE - PURAIR
STYLE / MODEL	FLOW-48
COLOR / FINISH	
NOTES:	48"W x 24"D x 24"H 120V, 60Hz

GROW CHAMBER

LOCATION	LAB
MANUFACTURER	TBD BY OWNER
STYLE / MODEL	TBD BY OWNER
COLOR / FINISH	
NOTES:	

STACKED FREEZERS

LOCATION	LAB
MANUFACTURER	TBD BY OWNER
STYLE / MODEL	TBD BY OWNER
COLOR / FINISH	
NOTES:	120V DEDICATED CIRCUIT (EACH)

REFRIGERATOR

LOCATION	LAB
MANUFACTURER	TBD BY OWNER
STYLE / MODEL	TBD BY OWNER
COLOR / FINISH	
NOTES:	120V DEDICATED CIRCUIT (EACH)

DIVISION 10 - SPECIALTIES

ZONEWORKS CURTAIN

LOCATION	PACKHOUSE A1/A2
MANUFACTURER	SCL ZONEWORKS
STYLE / MODEL	TZ CURTAIN (18 OUNCE)
COLOR / FINISH	VINYL WHITE
NOTES:	FIRE RETARDANT PER NFPA-701

PEDESTRIAN SAFETY CROSSING SYSTEM

LOCATION	NEAR LOADING DOCS
MANUFACTURER	TAPCO
STYLE / MODEL	TxDOT-Approved BlinkerBeacon™
COLOR / FINISH	
NOTES:	STOP SIGN, PEDESTRIAN CROSSING SIGN LOW AND HIGH BLINKING LIGHT SOLAR ARRAY WITH PASSIVE INDICATOR

FIRE EXTINGUISHER CABINET

FEC

LOCATION	PER PLANS & ENLARGED DETAILS
MANUFACTURER	LARSEN'S
STYLE / MODEL	SS-2409-5R / SS-2409-R1
COLOR / FINISH	SOLID STAINLESS STEEL DOOR
NOTES:	24"H x 9-1/2"W x 5"D; 5/16" FLAT TRIM, RECESSED RED VERTICAL LETTERING PROVIDE MP5 FIRE EXTINGUISHER
SUBMITTAL REQ'D	SEE OCCUPANCY AND EXITING PLAN A0.16

GRATES AT WASH OUT

LOCATION	WASH OUT, SEE PLAN
MANUFACTURER	McNICHOLS
STYLE / MODEL	#6601310132 (36" x 240") AND #6601310122 (24" x 240")
COLOR / FINISH	GALVANIZED STEEL
NOTES:	WELDED, GW-100, 19-W-4 SPACING, 1"x3/16" RECTANGULAR BAR SMOOTH SURFACE, 77% OPEN, SEE DETAILS

MODULAR DOCK HOUSE

LOCATION	SEE PLAN
MANUFACTURER	DOCKZILLA
STYLE / MODEL	4x7 DOCK HOUSE (DH4713816) WITH SKEWED PLATFORM
COLOR / FINISH	
NOTES:	WITH TRAILER RESTRAINT SEE DETAILS FOR ELECTRICAL AND STRUCTURAL REQ'S

DIVISION 09 - FINISHES

FROSTED FILM

FF-1

LOCATION	INTERIOR GLAZING PER PLAN
MANUFACTURER	3M
STYLE / MODEL	7725SE-314
COLOR / FINISH	DUSTED CRYSTAL WHITE
NOTES:	1/2" WIDE STRIPES, SEE INTERIOR ELEVATION

SUBMITTAL REQ'D

EPOXY FLOOR SEALER, WITH 6" COVED BASE

EPX-1

LOCATION	PER FLOOR FINISH PLAN
MANUFACTURER	ARIZONA POLYMER FLOORING
STYLE / MODEL	CastorCrete SL-B w/ EPOXY 600 TOP COAT
COLOR / FINISH	WHITE - CONFIRM WITH OWNER
NOTES:	SLIP RESISTANT, C.O.F. (ASTM C1028) 0.86 DRY; 0.69 WET SURFACE AREAS WITH POLYMER EPOXY FLOOR FINISH (APF) TO BE PREPARED PER MANUFACTURER REQUIREMENTS. RETURN COVED BASE 6" UP WALL, TYP THROUGHOUT

WALL FINISH - FRP

FRP-1

LOCATION	AS NOTED ON PLAN
MANUFACTURER	MARLITE
STYLE / MODEL	SMOOTH
COLOR / FINISH	S 100 SQ/S WHITE
NOTES:	OVERLAP TOP OF EPOXY BASE, CONTINUE UP TO HEIGHT AS NOTED, SEE DETAIL

SEALED CONCRETE

SC-1

LOCATION	PER FLOOR FINISH PLAN
MANUFACTURER	CURECRETE DISTRUCUTION INC.
STYLE / MODEL	ASHFORD FORMULA
COLOR / FINISH	FINE BROWN FINISH
NOTES:	CLEAR LIQUID HARDENER & DENSIFIER COEFFICIENT OF FRICTION (ASTM C1028) 0.86 DRY; 0.69 WET

CARPET TILE

CPT-1

LOCATION	OFFICE, CONFERENCE
MANUFACTURER	SHAW CONTRACT GROUP
STYLE / MODEL	TBD
COLOR / FINISH	TBD
NOTES:	

RESILIENT VINYL COVED BASE 6"H

RB-1

LOCATION	AT ALL SEALED CONC. AND CARPET TILE AREAS
MANUFACTURER	JOHNSONITE TARKETTE
STYLE / MODEL	DC-40-6 (COVED)
COLOR / FINISH	40 BLACK
NOTES:	.080 THICKNESS COVED

CARPET EDGE GUARD

EG-1

LOCATION	AS REQUIRED
MANUFACTURER	JOHNSONITE TARKETTE
STYLE / MODEL	EG-40-L
COLOR / FINISH	40 BLACK
NOTES:	COORDINATE WITH CARPET TILE THICKNESS

PAINT & PRIMER

PT-1

LOCATION	OVER WRGB AT ALL WET AREAS
MANUFACTURER	SHERWIN WILLIAMS
STYLE / MODEL	PRO INDUSTRIAL ACRYLIC SEMI-GLOSS B66-650
COLOR / FINISH	WHITE
NOTES:	PRIMER WITH PROMAR 200 ZERO VOC INTERIOR LATEX PRIMER, B28W2600 MAX VOC 100 g/L

STAINLESS STEEL CORNER GUARDS

CG

LOCATION	SEE WALL FINISH PALN
MANUFACTURER	
STYLE / MODEL	
COLOR / FINISH	STAINLESS STEEL
NOTES:	1 1/2" X 1 1/2" X 8'-0" FULLY ADHERED TO CORNER, TYP AT ALL CORNERS

WATER RESISTANT GYPSUM BOARD

WRGB

LOCATION	ALL WET LOCATIONS
MANUFACTURER	
STYLE / MODEL	
COLOR / FINISH	DUROCK BRAND CEMENT BOARD
NOTES:	1. WATER & MOLD RESISTANT

WHITE PAINT AT WALLS, AND (E) GYP.BD. CEILINGS

PT-1

LOCATION	PER INTERIOR ELEVATIONS
MANUFACTURER	SHERWIN WILLIAMS
STYLE / MODEL	PROMAR B31-2600 (PAINT), PROMAR B28W02600 (PRIMER)
COLOR / FINISH	7005 PURE WHITE
NOTES:	MAX VOC 100 g/L SEE A2.01D, A2.02D, AND INTERIOR ELEVATIONS

SUBMITTAL REQ'D

LIGHT GREY PAINT AT WET AREAS

PT-2

LOCATION	PER INTERIOR ELEVATIONS
MANUFACTURER	SHERWIN WILLIAMS
STYLE / MODEL	PROINDUSTRIAL B73-360/B73V300, PROMAR B28W02600 (PRIMER)
COLOR / FINISH	SW 7063 NEBULOUS WHITE
NOTES:	MAX VOC 100 g/L ON WRGB, SEE SPECS SEE INTERIOR ELEVATIONS

SUBMITTAL REQ'D

PAINT AT EXPOSED STEEL

PT-3

LOCATION	ALL EXPOSED DECORATIVE STEEL, SEE INTERIOR ELEVATIONS
MANUFACTURER	SHERWIN WILLIAMS
STYLE / MODEL	ARCOLON 100 OR SIMILAR EXTERIOR EPOXY
COLOR / FINISH	WHITE
NOTES:	MAX VOC 100 g/L SURFACE PREP: ABRASIVE BLAST CLEANING PER SSPC-SP6 FIELD REPAIR/TOUCH-UP: MACHINE TOOL CLEANING TO BARE
SUBMITTAL REQ'D	METAL PER SSPC-SP11

MILLWORK PULLS

HW-1

LOCATION	MILLWORK THROUGHOUT
MANUFACTURER	AMEROCK
STYLE / MODEL	BP36571FB "MONUMENT" 5-1/16" CTC HANDLE
COLOR / FINISH	MATTE BLACK
NOTES:	SEE MILLWORK DETAILS SOFT-CLOSE DRAWER SLIDES TYP THROUGHOUT SOFT-CLOSE HINGES TYP THROUGHOUT

NOTES - SPECIFICATIONS

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ATTENTION CONTRACTOR, FIXTURE & FURNITURE MANUFACTURER AND SUB-CONTRACTOR:
THESE DRAWING SERVE AS A GUIDE FOR THE MANUFACTURER, WHERE PHYSICAL JOB SITE MEASUREMENTS ARE REQUIRED BEFORE FABRICATION, IT IS YOUR RESPONSIBILITY TO OBTAIN SAME. THE OWNER WILL NOT STAND OR ALLOW ANY EXPENSE FOR RE WORK IF THERE IS ANY DEVIATION FROM ACTUAL MEASUREMENTS NOT WITHSTANDING ANY OMISSIONS, IT SHALL BE THE SOLE DUTY AND YOUR RESPONSIBILITY TO DETERMINE ACTUAL CONSTRUCTION DETAILS AND FABRICATION FOR SAID DESIGNS IN ACCORDANCE WITH ACCEPTED GOOD PRACTICE AND PROCEDURE AND TO ADVISE THE OWNER AND THE ARCHITECT AT THE TIME OF BIDDING IF SAID DRAWINGS IS NOT PRACTICAL OR STRUCTURALLY SOUND FOR ITS INTENT AND PURPOSE.

NOTE: IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND OR FABRICATOR AT THE TIME OF PREPARATION OF BID ESTIMATE TO ADVISE THE OWNER & THE ARCHITECT OF ANY ERRORS, AMBIGUITIES AND OMISSIONS IN THESE DRAWINGS.

GENERAL NOTES:

1. ALL SPECIFIED PRODUCTS **MAY BE SUBSTITUTED** FOR EQUAL PERFORMANCE SPECIFICATIONS WITH PRIOR APPROVAL FROM THE ARCHITECT. SUBSTITUTIONS MUST BE SUBMITTED TO AND APPROVED BY THE ARCHITECT AT THE TIME OF BID.
2. ALL PRODUCTS SHALL BE INSTALLED TO COMPLY WITH MANUFACTURER'S WARRANTY AND INSTALLATION RECOMMENDATIONS.
3. ALL ITEMS HEREIN SHALL BE PROVIDED & INSTALLED BY G.C. U.O.N.

DIVISION 06 - WOOD, PLASTICS & COMPOSITES

SS-1 SOLID SURFACE COUNTER TOP

ALTERNATE

LOCATION	SEE MILLWORK DETAILS
MANUFACTURER	DUPONT
STYLE / MODEL	CORIAN
COLOR / FINISH	GLACIER WHITE
NOTES:	

SS-1 COUNTER TOPS

ALTERNATE

LOCATION	MAILROOM
MANUFACTURER	FORMICA
STYLE / MODEL	COLORCORE2 / GRADE CD
COLOR / FINISH	MOUSE 928 / MATTE
NOTES:	SHEET SIZE 48"x120" THICKNESS: 0.034"

PL-1 MILLWORK FRONTS

SUBMITTAL REQ'D

LOCATION	MILLWORK, SEE DETAILS
MANUFACTURER	FORMICA
STYLE / MODEL	HIGH PRESSURE LAMINATE / 8844-WR AGED ASH
COLOR / FINISH	8844-WR AGED ASH WOOD BRUSH FINISH
NOTES:	GRADE 12

DIV. 07 - THERMAL & MOISTURE PROTECTION

ACOUSTIC BATT INSULATION

LOCATION	ALL INTERIOR WALLS AND CEILINGS, SEE PARTITION SCHEDULE
MANUFACTURER	OWENS CORNING
STYLE / MODEL	ECOTOUCH PINK FIBERGLAS WITH PUREFIBER
COLOR / FINISH	UNFACED-ECOTOUCH BATT INSULATION
NOTES:	THICKNESS TO MATCH FULL WIDTH OF STUD CAVITY FOR 6" WALLS = R19 FOR 3 5/8" WALLS = R-11

WATER REPELLENT BLOCK & MORTAR SEALER

LOCATION	OUTSIDE FACE OF ALL MASONRY & BRICK WALLS
MANUFACTURER	LIFEGUARD PRODUCTS, INC.
STYLE / MODEL	LIFEGUARD WATERPROOFING SEALANT
COLOR / FINISH	CLEAR
NOTES:	

SUBMITTAL REQ'D

VAPOR BARRIER

LOCATION	BELOW SLAB
MANUFACTURER	GCP
STYLE / MODEL	
COLOR / FINISH	FLOREPRUFE
NOTES:	SEE DETAILS, FOLLOW MANUF RECOMMENDATION INSTALLATION METHODS AND METHODS

WATERPROOFING MEMBRANE

LOCATION	SEE ENLARGED SECTION DETAILS
MANUFACTURER	GCP
STYLE / MODEL	
COLOR / FINISH	PREPRUFE
NOTES:	SEE DETAILS, FOLLOW MANUF RECOMMENDATION INSTALLATION METHODS AND METHODS

WATERPROOFING SYSTEM

LOCATION	FOUNDATION WALLS
MANUFACTURER	GCP
STYLE / MODEL	
COLOR / FINISH	BITUTHENE 8000
NOTES:	BITUTHENE PRIMER B2 LVC SEE DETAILS, FOLLOW MANUF RECOMMENDATION INSTALLATION METHODS AND METHODS

DRAIN MAT

LOCATION	FOUNDATION WALLS
MANUFACTURER	GCP
STYLE / MODEL	
COLOR / FINISH	HYDRODUCT 220
NOTES:	DRAINMAT COLLECTOR COIL 600 SEE DETAILS, FOLLOW MANUF RECOMMENDATION INSTALLATION METHODS AND METHODS

WATERPROOFING SYSTEM AT PLANTER

LOCATION	PLANTER
MANUFACTURER	GCP
STYLE / MODEL	
COLOR / FINISH	SELF TERMINATING SILCORE MEMBRANE
NOTES:	SILCORE PRIMER SEE DETAILS, FOLLOW MANUF RECOMMENDATION INSTALLATION METHODS AND METHODS

DIVISION 08 - OPENINGS

GL-1 GLAZING

LOCATION	INTERIOR GLAZING
MANUFACTURER	
STYLE / MODEL	
COLOR / FINISH	3/8" MIN.
NOTES:	TEMPERED SAFETY GLAZING WITH FF-1 FROSTED FILM

INTERIOR STOREFRONT SYSTEM

LOCATION	INTERIOR GLAZING AT CONFERENCE ROOM
MANUFACTURER	WESTERN INTEGRATED
STYLE / MODEL	300 SERIEWS WITH 304 RM FLUSH
COLOR / FINISH	BLACK ANODIZED
NOTES:	CENTER GLASS, WITH SETTING BLOCKS AND GASKETS GL-1 GLAZING THROUGHOUT NO VERTICAL MULLIONS - BUTT JOINT CLEAR STRUCTURAL SILICONE

STRUCTURAL GLAZING SEALANT

LOCATION	GLAZING
MANUFACTURER	DOW CORNING
STYLE / MODEL	"DOWSIL 995" SILICONE STRUCTURAL GLAZING SEALANT
COLOR / FINISH	WHITE
NOTES:	

SUBMITTAL REQ'D

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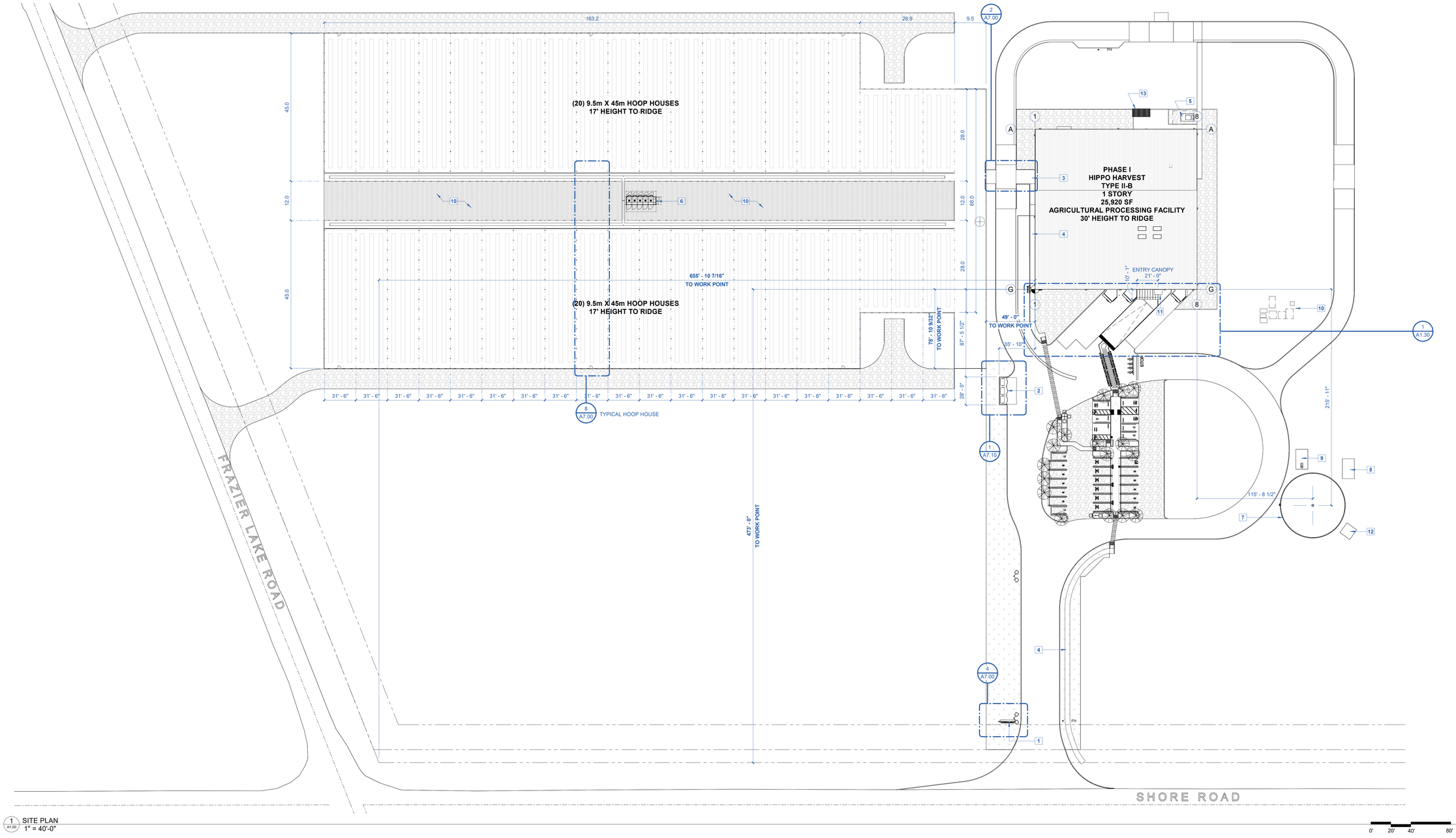
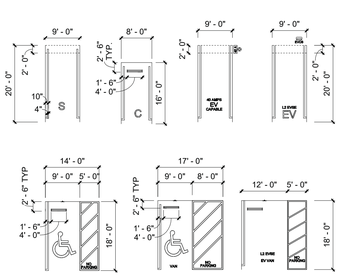


1 SITE PLAN
A1.00 1" = 40'-0"

PARKING LEGEND

NOT ALL MAY BE USED



PARKING COUNT - PHASE I		
TYPE	#	%
8'-0" x 16'-0" COMPACT	5	19%
9'-0" x 18'-0" ACCESSIBLE VAN (W/ 8'-0" PATH)	1	4%
9'-0" x 18'-0" ACCESSIBLE	1	4%
9'-0" x 18'-0" ACCESSIBLE (W/ 5'-0" PATH)	1	4%
9'-0" x 20'-0" EV W/40 AMP CONDUIT	6	23%
9'-0" x 20'-0" L2 EVSE	1	4%
9'-0" x 20'-0" STANDARD	10	38%
12'-0" x 18'-0" ACCESSIBLE VAN EVCS (W/ 5'-0" PATH)	1	4%
	26	100%

PARKING REQUIREMENTS
(CBC 11B-208.2) ACCESSIBLE PARKING = (26-50) = 2
VAN ACCESSIBLE = 1 / 6 = 1
(11B-228.3.2.1) VAN EV (1-4) = 1
FUEL EFFICIENT =(26-50) = 2
FUTURE E.V. CAPABLE = (26-50) = 2
BIKE PARKING
SHORT TERM = (26-50) = 3
LONG TERM BIKE = (26-50) = 3

LEGEND - SITE PLAN

SYMBOL	DESCRIPTION (NOT ALL MAY BE USED)
	BUILDING WORK POINT CORRESPONDS TO WORK POINT
	EXTERIOR LIGHT POLE, S.E.D.
	PAD MOUNTED TRANSFORMER, S.E.D.
	DIRECTION ARROWS AT PARKING LOT, S.C.D.
	DETECTABLE WARNING DEVICES, S.C.D.
	APPROX. LOCATION OF (E) UTILITY MANHOLE, S.C.D.
FH	APPROX. LOCATION OF (E) PUBLIC FIRE HYDRANT, S.C.D.
	GRAVEL, S.C.D.
	LANDSCAPING, S.LD.D.

NOTES - SITE PLAN

1. MONUMENT SIGN
2. TRASH ENCLOSURE
3. HOOP HOUSE CONNECTION FROM BUILDING TO GROW HOUSES, WITH FIRE DEPT. ACCESS, SEE DETAILS
4. SIDEWALK, S.C.D.
5. TRANSFORMER, S.E.D.
6. MICROTURBINE, S.E.D.
7. FIRE WATER TANK
8. 20'x12' PLUMBING EQUIPMENT PAD & ENCLOSURE, S.P.D.
9. 20'x12' FIRE PUMP AND ASSOCIATED EQUIPMENT ENCLOSURE
10. SEPTIC SYSTEM, SEE SYSTEM SEPTIC DRAWINGS
11. 5'X8' FIRE ALARM PANEL AND FIRE RISER EQUIPMENT ENCLOSURE, S.FP/FA.P
12. 12'x12' PLUMBING EQUIPMENT PAD & ENCLOSURE, S.P.D.
13. WASH-OUT AREA, SEE ENLARGED DRAWINGS

NOTES GENERAL - SITE PLAN

1. SEE CIVIL DRAWINGS FOR ALL UNDERGROUND UTILITIES.
2. TAKE ALL MEANS TO PROTECT THEM FROM DAMAGE DURING ALL CONSTRUCTION WORK. IF DAMAGE OCCURS REPAIR OR REPLACE TO THE SATISFACTION OF THE OWNER & AUTHORITY HAVING JURISDICTION.
3. SEE LIGHTING DRAWINGS FOR EXTERIOR LIGHTING.
4. SEE SIGNAGE SHEET FOR ALL SIGNAGE.

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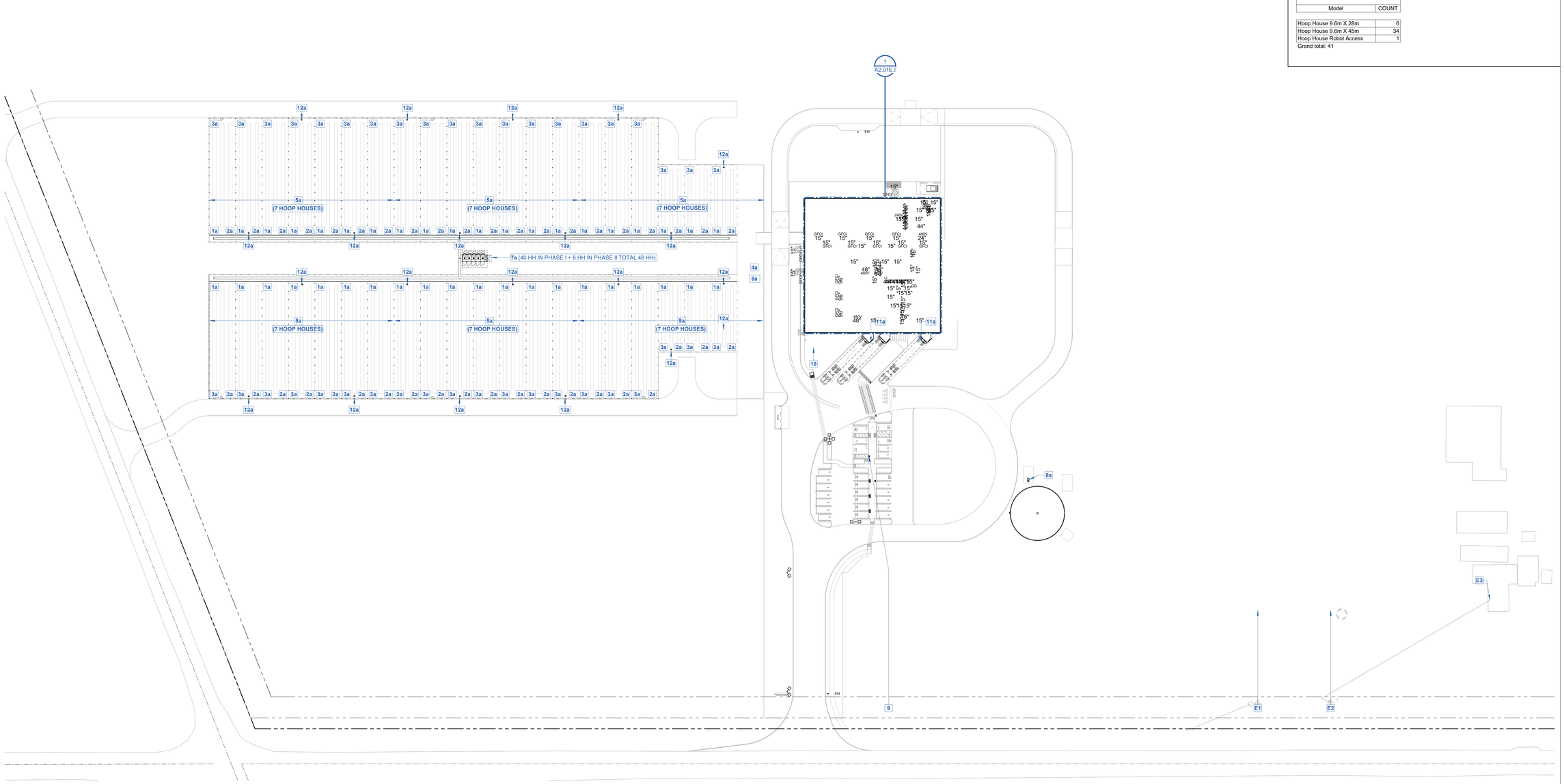

1 A1.21.I SITE PLAN - PHASE I - POWER PLAN
1" = 50'-0"

0' 25' 50' 100'

KEYNOTES - SITE PLAN POWER

EXISTING

- E1 (1) (E) 100 HP WELL PUMP, S.C.D., S.P.D., S.E.D. (480V 125A 3P METER)
- E2 (1) (E) 25 HP WELL PUMP, S.C.D., S.P.D., S.E.D. (120/480V 200A METER)
- E3 (E) HOUSE METER. S.E.D. (240V 200A 3P)

PHASE I

- 1a (40) HOOP HOUSE LED LIGHT, S.E.D. (36kW 480V 3P)
- 2a (40) POWER RECEPTACLE FOR ROBOT CHARGING DOCK, S.E.D. (0.5kW 110V 1P)
- 3a (40) POWER FOR EXHAUST AIR AND DISTRIBUTION FAN, S.M.D., S.E.D. (6kW 480V 3P)
- 4a (1) POWER FOR R.O. SYSTEM, S.E.D. (10kW 480V 3P / 220V 1P)
- 5a (6) POWER FOR MOTORIZED CRANK FOR BLACKOUT CURTAINS, S.E.D. (2kW 480V 3P)
- 6a (1) NUTRIENT MIXING STATION (NO POWER REQUIREMENTS)
- 7a (1) MICROTURBINE POWER GENERATOR, S.E.D., PROVIDE GAS LINE, S.P.D. (SHALL BE SIZED TO SERVE 8 ADDITIONAL HOOP HOUSES IN PHASE II)
- 8a (1) FIRE PUMP
- 9 (1) ELECTRIC VEHICLE CHARGING EQUIPMENT, SEE PARKING SCHEDULE
- 10 PGE EQUIPMENT, S.E.D.
- 11a STORM PUMP, S.C.D.
- 12a WIRELESS ACCESS DEVICES (BY OWNER) FOR HOOP HOUSES. PROVIDE EXTERIOR RATED CAT6a DATA CABLES.

PHASE II

- 1b (286) HOOP HOUSE LED LIGHT, S.E.D. (36kW 480V 3P)
- 2b (286) POWER RECEPTACLE FOR ROBOT CHARGING DOCK, S.E.D. (0.5kW 110V 1P)
- 3b (286) POWER FOR EXHAUST AIR AND DISTRIBUTION FAN, S.M.D., S.E.D. (6kW 480V 3P)
- 4b (1) POWER FOR R.O. SYSTEM, S.E.D. (10kW 480V 3P / 220V 1P)
- 5b (41) POWER FOR MOTORIZED CRANK FOR BLACKOUT CURTAINS, S.E.D. (2kW 480V 3P)
- 6b (1) NUTRIENT MIXING STATION
- 7b (7) MICROTURBINE POWER GENERATOR, S.E.D., PROVIDE GAS LINE, S.P.D.
- 8b NOT USED
- 9b SOLAR ARRAY
- 10b NOT USED
- 11b STORM PUMP, S.C.D.

HOOP HOUSE QUANTITY - PHASE I

Model	COUNT
Hoop House 9.6m X 28m	6
Hoop House 9.6m X 45m	34
Hoop House Robot Access	1

Grand total: 41

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PRE-FAB BLDG: STEEL SOLUTIONS, INC., P.O. Box 2566, Hollister, CA 95024, www.steelsi.com, T: 831-901-4059, Contact: Royce Bowles, E-Mail: Royce@steelsi.com

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PROJ #:	25.003
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SITE PLAN - POWER PLAN - PHASE I

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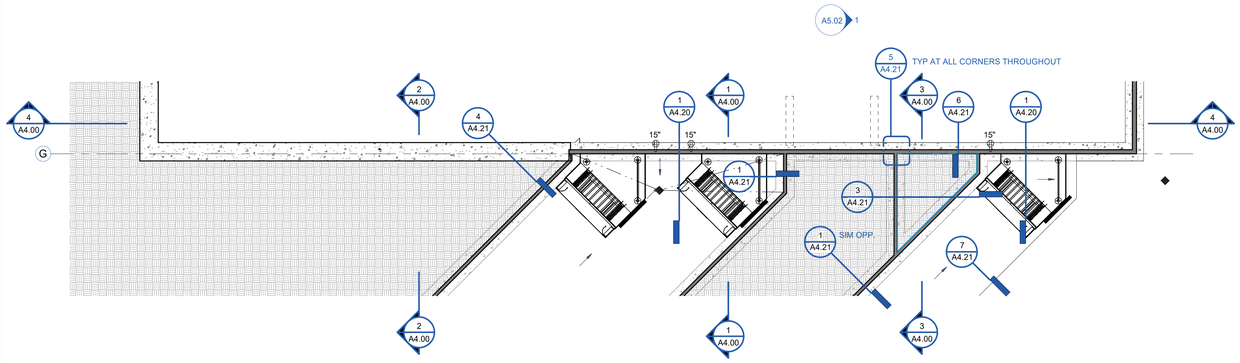
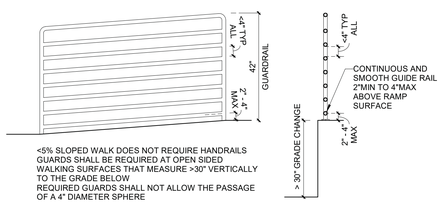


2 A1.30 ENLARGED PLAN - LOADING DOCK PIT
1" = 10'-0"

CODE REFERENCES:
1003.5 ELEVATION CHANGE: WHERE CHANGES IN ELEVATION OF LESS THAN 12" EXIST IN THE MEANS OF EGRESS, SLOPED SURFACES SHALL BE USED. WHERE THE SLOPE IS GREATER THAN 1 UNIT VERTICAL IN 20 UNITS HORIZONTAL (5% SLOPE), RAMPS COMPLYING WITH SECTION 1012 SHALL BE USED. WHERE THE DIFFERENCE IN ELEVATION IS 6" OR LESS, THE RAMP SHALL BE EQUIPPED WITH EITHER HANDRAILS OR FLOOR FINISH MATERIALS THAT CONTRAST WITH ADJACENT FLOOR FINISH MATERIALS.
1012.8: RAMPS (5% SLOPE OR GREATER) WITH A RISE GREATER THAN 6" SHALL HAVE HANDRAILS ON BOTH SIDES.
1012.10.1: A CURB PROVIDED AS EDGE PROTECTION MUST BE MIN 4" HIGH.
1015.2: GUARDS SHALL BE LOCATED AT OPEN SIDED WALKING SURFACES, STAIRS, RAMPS, LANDINGS, ETC. THAT ARE LOCATED MORE THAN 30" MEASURED VERTICALLY TO THE FLOOR OR GRADE BELOW.
1015.4 REQUIRED GUARDS SHALL NOT HAVE OPENINGS THAT ALLOW PASSAGE OF A SPHERE 4 INCHES IN DIAMETER FROM THE WALKING SURFACE TO THE REQUIRED GUARD HEIGHT.
11B-303.5 WARNING CURBS: ABRUPT CHANGES IN LEVEL EXCEEDING 4" IN VERTICAL DIMENSION BETWEEN WALKS, SIDEWALKS OR OTHER PEDESTRIAN WAYS AND ADJACENT SURFACES OR FEATURES SHALL BE IDENTIFIED BY WARNING CURBS AT LEAST 6" IN HEIGHT ABOVE THE WALKING SURFACE
11B-305.5 EXCEPTION 2: A WARNING CURB IS NOT REQUIRED WHEN A GUARD OR HANDRAIL IS PROVIDED WITH A GUIDE RAIL CENTERED 2"MIN AND 4" MAX ABOVE WALKING SURFACE.
11B-403.7 ALL WALKS WITH CONTINUOUS GRADIENTS SHALL HAVE RESTING AREAS 60" IN LENGTH AT INTERVALS OF 400 FEET MAXIMUM
11B-405.6 THE RISE FOR ANY RAMP RUN SHALL BE 30" MAX
11B-405.9.2 A CURB OR BARRIER SHALL BE PROVIDED THAT PREVENTS THE PASSAGE OF A 4" DIAMETER SPHERE, WHERE ANY PORTION OF THE SPHERE IS WITHIN 4" OF THE FINISH FLOOR OR GROUND SURFACE. TO PREVENT WHEEL ENTRAPMENT, THE CURB OR BARRIER SHALL PROVIDE A CONTINUOUS AND UNINTERRUPTED BARRIER ALONG THE LENGTH OF THE RAMP.

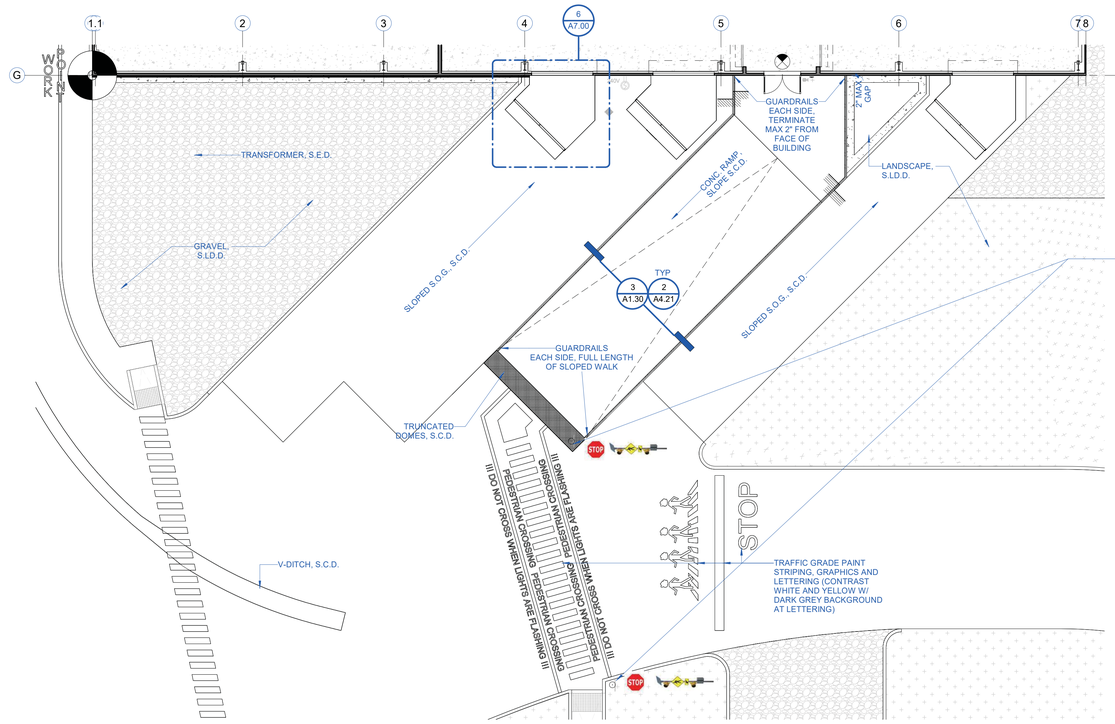
NOTE: STRUCTURAL ELEMENTS, FIXTURES OR FURNISHING SHALL NOT PROJECT HORIZONTALLY FROM EITHER SIDE MORE THAN 4 INCHES OVER ANY WALKING SURFACE BETWEEN THE HEIGHTS OF 27 INCHES AND 80 INCHES ABOVE THE WALKING SURFACE. **(SEC. 1003.3.3)**



<5% SLOPED WALK DOES NOT REQUIRE HANDRAILS
GUARDS SHALL BE REQUIRED AT OPEN SIDED WALKING SURFACES THAT MEASURE >30" VERTICALLY TO THE GRADE BELOW
REQUIRED GUARDS SHALL NOT ALLOW THE PASSAGE OF A 4" DIAMETER SPHERE

LEVEL CHANGE > 4" REQUIRES A WARNING CURB; OR GUARD OR HANDRAIL WITH A WHEEL GUIDE RAIL.
LEVEL CHANGE > 30" REQUIRES GUARD RAILINGS THAT DO NOT PERMIT THE PASSAGE OF A 4" SPHERE.

3 A1.30 ACCESSIBILITY DETAIL - RAILING
1/2" = 1'-0"



1 A1.30 ENLARGED PLAN - LEVEL 1 - ENTRY RAMP
1" = 10'-0"



PEDESTRIAN SAFETY CROSSWALK DEVICE BY TABCO
TAPCO PEDESTRIAN CROSSWALK SYSTEMS

PASSIVE SYSTEM ACTIVATION
RELIABLY DETECT VULNERABLE ROAD USERS ENTERING THE CROSSWALK, REGARDLESS OF EXTERNAL CONDITIONS. THE PASSIVE DETECTION CAMERAS ENSURE 24/7 DETECTION TO ACTIVATE THE ALERT SYSTEM WHEN PEDESTRIANS ARE PRESENT. RELIABLE DETECTION IN MOST WEATHER CONDITIONS. EASY INTEGRATION WITH USER-ACTIVATED SYSTEM OPTIONS.

WARNING ALERTS
FROM ARTERIAL ROADWAYS TO TRAIL CROSSINGS, CROSSWALK VISIBILITY IS A PAIN POINT FOR MANY COMMUNITIES. WITH SO MUCH ACTIVITY ON THE ROAD, STATIC CROSSWALK SIGNS CAN BE DIFFICULT TO SEE ESPECIALLY FROM A DISTANCE. AND EVEN JUST ONE MOTORIST FAILING TO YIELD TO PEDESTRIANS CAN COMPROMISE THE SAFETY OF ALL ROADWAY USERS.

SOLAR POWERED
TOP-OF-POLE SELF-CONTAINED CONTROL CABINETS ARE EQUIPPED WITH SOLAR CAPABILITIES. DESIGNED FOR QUICK INSTALLATION, THESE POWER OPTIONS BLEND SEAMLESSLY INTO THE ENVIRONMENT AND BYPASS THE NEED FOR TRENCHING OR IN-GROUND WIRING.

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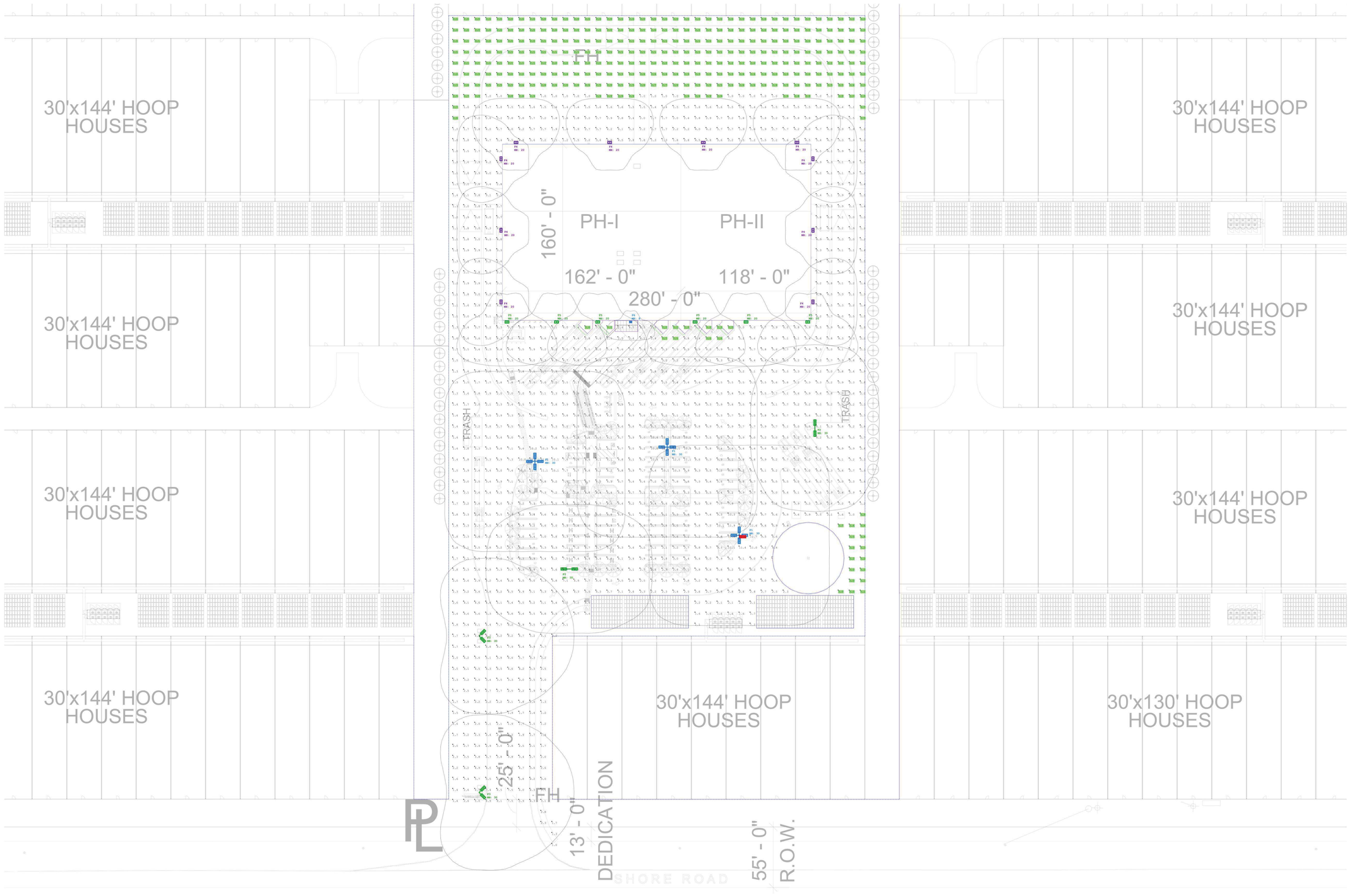

APRIL 4,2025
PROJECT: HIPPO HARVEST
SPECIFIER: BALIAN ARCHITECTS
CALIFORNIA LIGHTING SALES
(415) 461-0414
PHOTOMETRIC TRAC 2588DOB

Luminaire Schedule

Mounting Height	Symbol	Qty	Label	Arrangement	Description	Tag	LLF	Luminaire Lumens	Luminaire Watts	Filename
20		5	P1	4 @ 90 Degrees	LSI: MRM-LED-26L-SIL-5W-UNV-30K-65-TCR3-LP8IN-OFF-CONTROLS-ACCESS	POLE MOUNT 20FBS	0.900	5141	213	MRM-LED-26L-SIL-5W-65-TCR3.ies
20	SCB - 420	2	P2	Back-Back	LSI: MRM-LED-26L-SIL-4-UNV-30K-65-TCR3-FIN18-OFF-CONTROLS-ACCESS	POLE MOUNT 20FBS	0.900	5141	213	MRM-LED-26L-SIL-4-65-TCR3.ies
20		3	P3	2 @ 90 degrees	LSI: MRM-LED-26L-SIL-4-UNV-30K-65-TCR3-FIN18-OFF-CONTROLS-ACCESS	POLE MOUNT 20FBS	0.900	5141	213	MRM-LED-26L-SIL-4-65-TCR3.ies
20		1.5	P4	Single	LSI: XWM-P7-25L-SIL-5W-UNV-30K-65-TCR3-LP8IN-OFF-CONTROLS-ACCESS	WALL MOUNT	0.900	5188	68	XWM-P7-25L-SIL-5W.ies
8		1.5	P5	Single	LSI: XWM-P7-25L-SIL-5W-UNV-30K-65-TCR3-LP8IN-OFF-ACCESS	WALL MOUNT	0.900	5188	68	XWM-P7-25L-SIL-5W.ies
8		1.5	P6	Single	LSI: XWT-LED-C-SIL-3-UNV-30K-65-TC-CONTROLS-F3IN18-OFF-ACCESS	WALL MOUNT	0.900	3397	34	XWT-LED-C-SIL-3-65-TCR3.ies

Calculation Summary

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
SITE	Illuminance	Fc	0.64	12.8	0.0	N.A.	N.A.

DISCLAIMER: This calculation, either normal lighting or emergency lighting, is based on information provided to CLS by others. Actual field conditions, such as voltage, reflectance, etc., These findings should be verified by a certified electrical engineer as to their accuracy. Design changes such as ceiling heights, ceiling, wall and floor reflectances of all interior surfaces including partition walls may adversely affect the overall light levels. CLS is not responsible as to the veracity of these calculations, and should only be used as a design reference tool and are only an approximation.

CLS
CALIFORNIA LIGHTING SALES

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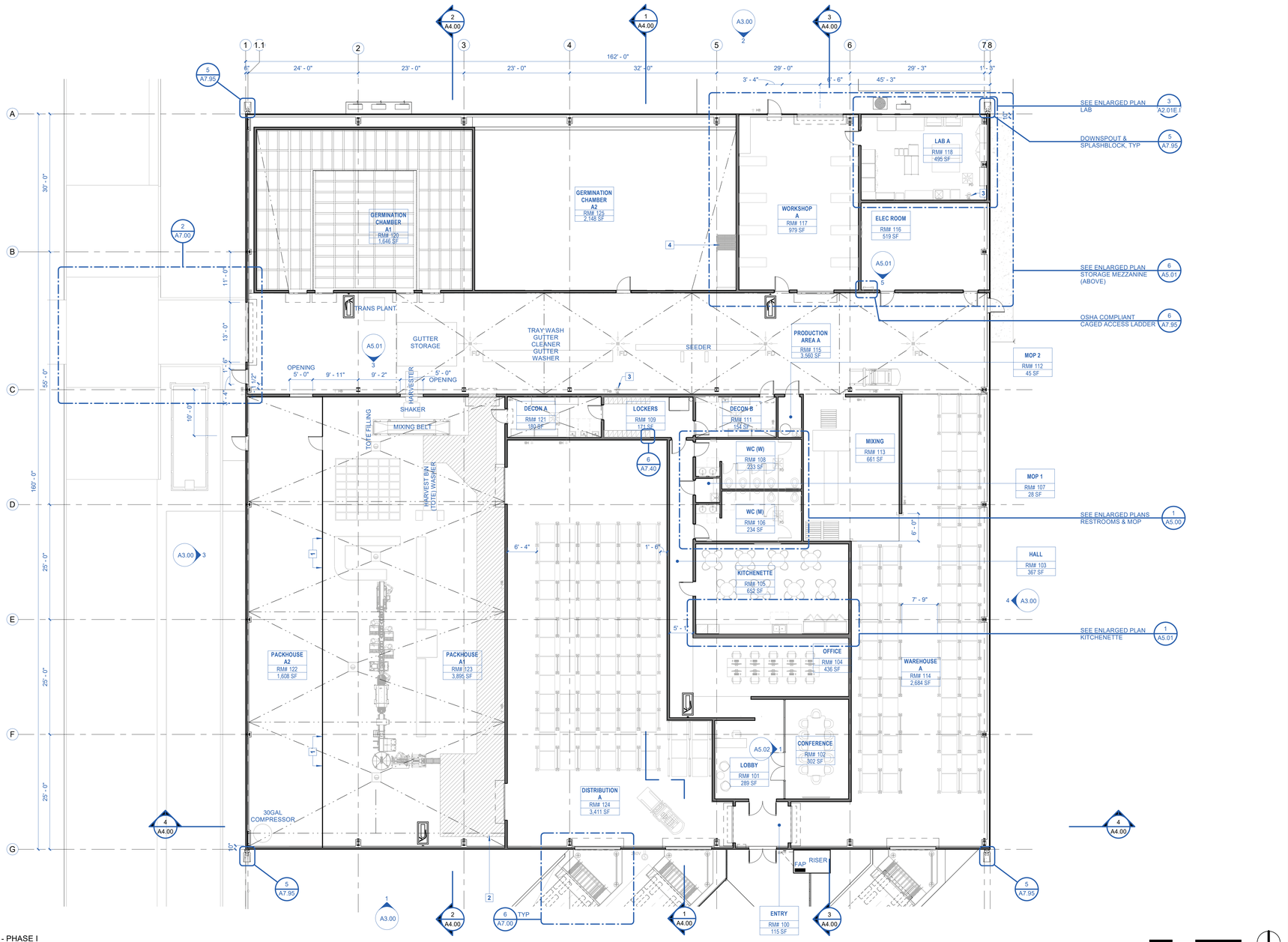

1 FLOOR PLAN - LEVEL 01 - PHASE I
1" = 10'-0"

0' 5' 10' 20'

NOTES GENERAL - PLANS

GENERAL

1. WHERE EXTERIOR SHEATHING NOT REQUIRED PER STRUCTURAL PROVIDE SHEATHING FOR FLUSH EXTERIOR FINISH.
2. ROOF SHALL BE CLASS A SINGLE PLY ROOF TYPE.
3. INSTALL ALL DOOR FRAMES PERFECTLY STRAIGHT WITH NO WARP, TWIST OR RACK.
4. IN ORDER TO COMPLY WITH SLIP RESISTANT SURFACE REQ'S CONTAINED IN PART 2 OF TITLE 24 OF THE CBC RELATIVE TO ACCESSIBILITY FOR ALL GROUND AND FLOOR SURFACES (INCLUDING FLOORS, WALKS, RAMPS, STAIRS AND CURB RAMPS). DYNAMIC COEFFICIENT OF FRICTION ALLOWED ON FLAT SURFACES IS =>0.42 BY ASTM STANDARDS FOR SLIP RESISTANCE; 0.80 FOR RAMPS.
5. ALL BUILDING GRIDS ARE TO CENTERLINE OF WALLS OR COLUMN EXECPT EXTERIOR WALLS U.O.N.
6. PROVIDE BLOCKING FOR ALL CASEWORK AND GRAB BARS.
7. LOCATE SINK DRAIN AT BACK OF SINK TO PROVIDE ADEQUATE KNEE CLEARANCE AT ALL ACCESSIBLE SINK LOCATIONS. EXTEND FLOOR FINISH UNDER SINK TO BACK WALL. SEE ACCESSIBILITY STANDARDS.
8. ALL HINGED SIDE OF DOOR FRAMES ADJACENT TO A PERPENDICULAR PARTITION AND/OR AN ANGLED PARTITION ARE TO BE 4" FROM OUTSIDE EDGE OF DOOR FRAME TO FINISH FACE OF THE PARTITION, UNLESS OTHERWISE NOTED.
9. S.S.D. FOR TYPICAL STUD WALL FRAMING.

MINIMUM INSULATION VALUES

1. ALSO SEE SPECIFICATIONS & TITLE 24 ENERGY CALCULATIONS FOR THE REQUIRED MIN. LEVELS OF INSULATION IN THE CONSTRUCTION ASSEMBLIES AND THE MAXIMUM U-FACTOR AND MAXIMUM SHGC - FACTOR ALLOWED FOR THE FENESTRATION. WINDOWS AND GLAZED DOORS MUST HAVE LABELS FOR THE 'U' AND 'SHGC' FACTORS THAT ARE REQUIRED BY THE ENERGY DOCUMENTATION.
2. PROVIDE THE MINIMUM INSULATION VALUES BELOW AND/OR THE REQUIREMENTS OF THE CALIFORNIA STATE ENERGY CODE AND THE APPROVED TITLE 24 ENERGY CALCULATIONS FOR EXTERIOR WALLS, FLOORS & ROOFS WHICHEVER IS MORE STRINGENT.
   ROOF = R38, MAX U-FACTOR OF .038. *REFLECTANCE = 0.63, EMITTANCE = 0.75 OR MINIMUM SOLAR REFLECTANCE INDEX OF 75.SHALL BE RATED AND LABELED BY THE COOL ROOF RATING COUNCIL*
   FLOORS = R10, MAX U-FACTOR OF 0.48
   WALLS = R15, MAX U-FACTOR OF 0.059

ARCHITECTURAL/OWERN INSPECTIONS:

1. WALL SETOUT PLAN REVIEW - NOTIFY ARCHITECT AND OWNER FOR FIELD WALK AFTER CHAULK LINES ARE SNAPPED; INCLUDE FINISH WALL THICKNESS.
2. ROUGH ELECTRICAL - J-BOX LAYOUT BEFORE CLOSURE OF WALL FRAMING.
3. LIGHTING LAYOUT - NOTIFY ARCHITECT FOR FIELD WALK AFTER CHAULK LOCATIONS ARE SNAPPED.

USE NON-STAINING CHAULK

KEYNOTES - FLOOR PLAN

1. ZONEWORKS SCL VINYL CURTAIN WALL (18-OUNCE VINYL FABRIC) FIRE RETARDANT PER NFPA-701
2. PAINT STRIPING ON FLOOR TO DEMARK CAUTION AREA FOR FORKLIFT, MIN 6'-0" WIDTH, COORDINATE WITH PACKING EQUIPMENT LAYOUT, ALSO SEE FLOOR FINISH PLAN
3. EMEGENCY EYE WASH AND SHOWER HEAD, SEE A0.90 SPECS AND S.P.D.
4. PORTABLE PLATFORM FOR ACCESS TO STORAGE MEZZANINE ABOVE

LEGEND - FLOOR PLAN SYMBOLS

NOT ALL MAY BE USED

SYMBOL	DESCRIPTION
1/8" / 1'-0"	SLOPE TO DRAIN IN DIRECTION OF ARROW, 1/4" : 1'-0" U.O.N.
	DETECTABLE DE
FD	FLOOR DRAIN, SEE PLUMBING DRAWINGS
	FLOOR SINK, S.P.D.
	MECHANICAL SHAFT & SHAFT OPENING. S.M.D. & S.S.D.
	STANDPIPE, SEE FIRE PROTECTION DRAWINGS
HB	HOSE BIB, SEE PLUMBING DRAWINGS
	INTERNAL ROOF DRAIN AND OVERFLOW; 4" DIA DRAIN S.P.D., 8" CLEAR REQ'D FROM CENTER OF PIPE
FD	FLOOR DRAIN, SEE PLUMBING DRAWINGS

LEGEND - WALL TYPE

(N) NON STRUCTURAL PARTITION	
STOREFRONT	

P1-A-0
- ASSEMBLY TYPE
- STUD SIZE
- FIRE RATING
- ASSEMBLY TYPE VARIATION
- PARTITION WALL OR FURRING TYPE

P = PARTITION, **F** = FURRING, **S** = SHAFTWALL, **C** = CHASE WALL, **M** = MASONRY

SEE A8.00

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SHEET TITLE :
LEVEL 01 - FLOOR PLAN

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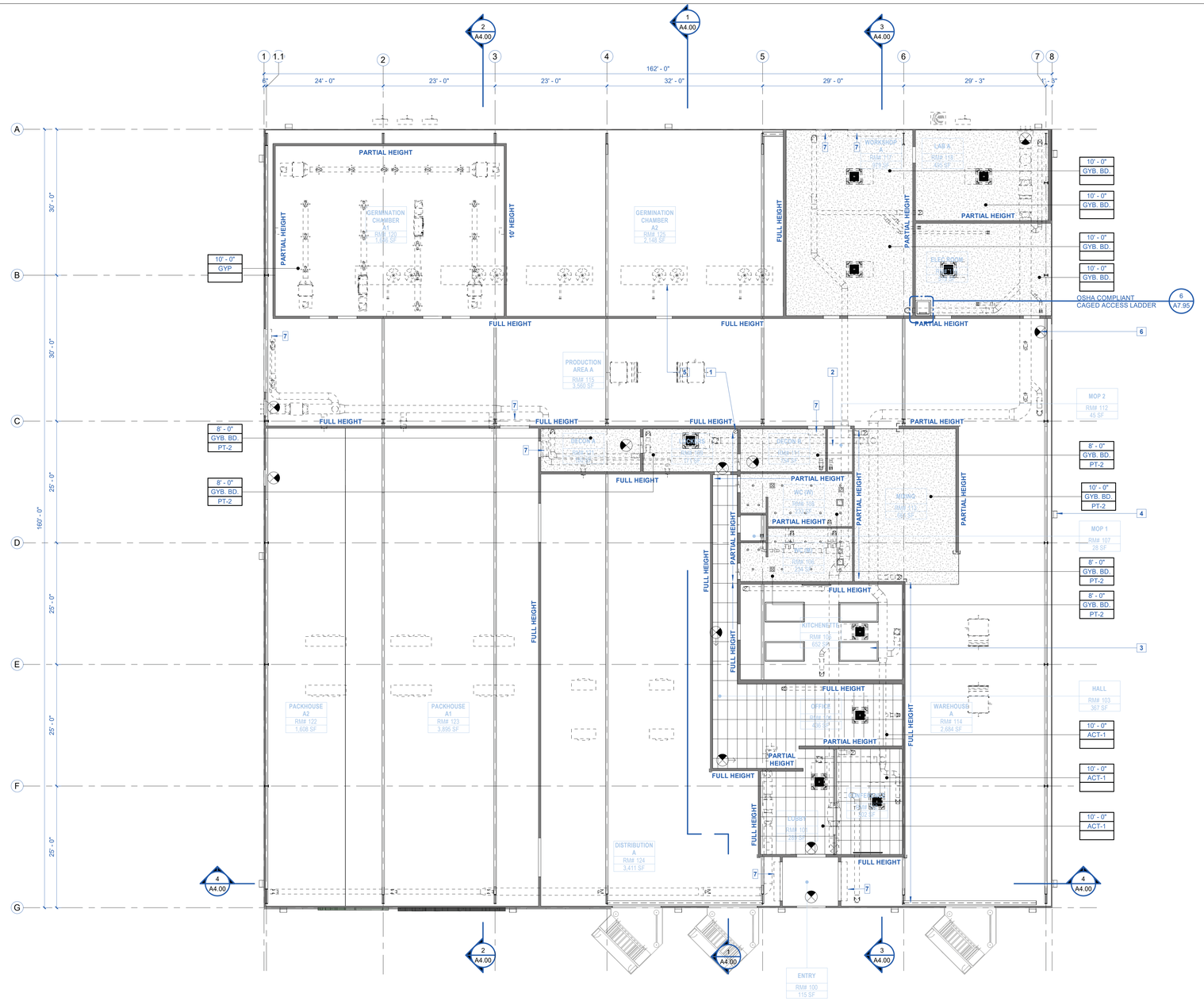

1 A2.01B RCP - LEVEL 01
1" = 10'-0"

0' 5' 10' 20'

NOTES GENERAL - RCP

A. REFER TO LIGHTING, MECHANICAL, ELECTRICAL, AND FIRE PROTECTION DRAWINGS AND SPECIFICATIONS FOR DESIGN OF THESE SYSTEMS (DUCT SIZES, CIRCUITING, ETC.). CONTRACTOR SHALL NOTIFY OWNER & ARCHITECT OF ANY CONFLICTS PRIOR TO CONSTRUCTION.
B. QUANTITY AND APPROXIMATE LOCATION OF THERMOSTATS SHALL BE DETERMINED BY HVAC ENGINEER. LOCATIONS SHALL BE SUBMITTED TO OWNER & ARCHITECT FOR REVIEW PRIOR TO INSTALLATION.
C. CEILING HEIGHTS AND DETAILING SHALL BE AS INDICATED IN DRAWINGS. CONTRACTOR SHALL VERIFY CLEARANCES BETWEEN DUCTWORK, LIGHT FIXTURES, AND OTHER OBSTRUCTIONS IN THE CEILING PLENUM TO ASSURE THE FINISH CEILING HEIGHT. MINIMUM HEADROOM CLEARANCE AT STAIRS SHALL BE 6'-8". ANY DEVIATION FROM HEIGHT OR DETAILING INDICATED SHALL BE SUBMITTED TO OWNER & OWNER'S REPRESENTATIVE FOR REVIEW PRIOR TO BIDDING.
D. THE CEILING WORK SHALL BE CLOSELY COORDINATED WITH THAT OF OTHER TRADES WHEREVER CONTIGUOUS.
E. ACCESS PANELS SHALL NOT BE INSTALLED IN GYPSUM BOARD CEILINGS U.O.N. SYSTEMS AND EQUIPMENT REQUIRING ACCESS PANELS SHALL BE LOCATED AWAY FROM AREAS WITH GYPSUM BOARD CEILINGS. CONTRACTOR SHALL COORDINATE TYPE AND LOCATION OF ACCESS PANELS WITH THE OWNER OR ARCHITECT PRIOR TO INSTALLATION.
F. PRIOR TO CLOSING CEILINGS, PLENUM SYSTEMS (HVAC, PLUMBING, ELECTRICAL, ETC.) SHALL BE INSPECTED AND TESTED AS REQUIRED BY CONTRACTOR'S ENGINEER AND BY AUTHORITIES HAVING JURISDICTION TO ENSURE PROPER INSTALLATION AND FUNCTION.
G. CONTRACTOR SHALL SUBMIT SPRINKLER HEAD LAYOUT PLAN FOR REVIEW BY THE OWNER AND THE ARCHITECT PRIOR TO PURCHASE AND INSTALLATION.
H. ALL UTILITY LINES, DUCTWORK AND ELECTRICAL CONDUITS AT EXPOSED CEILINGS SHALL BE STRAIGHT RUNS, ORGANIZED TO MAXIMIZE CLEAR CEILING HEIGHT. ALL EXPOSED PIPING, DUCTWORK AND CONDUITS SHALL BE PAINTED TO MATCH CEILING.
I. CONTRACTOR TO VERIFY CONDITIONS AND LOCATIONS OF ALL MECHANICAL, ELECTRICAL AND STRUCTURAL ELEMENTS PRIOR TO CEILING WORK. MODIFY AND RELOCATE NON-VISIBLE ELEMENTS TO ACCOMMODATE FOR NEW CEILING CONSTRUCTION AS SHOWN.
J. VERIFY CEILING CONSTRUCTION AND DRYWALL THICKNESS IN ALL AREAS PRIOR TO ORDERING OR INSTALLING FIXTURES. ADVISE DESIGNER OF ALL CONFLICTS.
K. THE CONTRACTOR SHALL PROVIDE CUTOUTS AND OTHER SPECIAL PROVISIONS IN ACOUSTICAL CEILING TILE AND FRAMING AS REQUIRED FOR LIGHT FIXTURES, REGISTERS, DIFFUSERS AND OTHER INSERTED ITEMS INCLUDING ALLOWANCES FOR REQUIRED CLEARANCE.
L. CONTRACTOR SHALL VERIFY ALL EXISTING FIELD CONDITIONS AND DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES ADVERSELY AFFECTING THE LIGHTING DESIGN AND/OR INSTALLATION (INCLUDING CONFLICTS WITH STRUCTURE, MECHANICAL EQUIPMENT, DUCTWORK, ETC.) PRIOR TO PROCEEDING WITH THE WORK.

KEYNOTES - RCP

1 AIR OUTLET FOR DRYER, SEE MANUF. SPECIFICATIONS
2 WALL MOUNTED WATER HEATER, S.P.D.
3 SKYLIGHT, TYP, SEE ROOF PLAN
4 EXTERIOR LIGHTING FIXTURES, TYP, S.E.D.
5 ROOFTOP MECH EQUIPMENT, TYP, SEE ROOF PLAN, S.M.D.
6 ILLUMINATED EXIT SIGNAGE, TYP, S.E.D.
6 FUTURE AIR CURTAIN, TYPICAL FOR 8 - PROVIDE, J-BOX AND CONDUIT TO HOMERUN FOR FUTURE INSTALLATION OF DEVICE AND ASSOCIATED MOUNTING AND WIRING

ROOM SCHEDULE - TEMP AND HUMIDITY

ROOM NAME	ROOM HEIGHT	TEMPERATURE	HUMIDITY	AREA
CONFERENCE	10 FEET	72 - 75 F		302 SF
DECON A	8 FEET	72 - 75 F		180 SF
DECON B	8 FEET	72 - 75 F		154 SF
DISTRIBUTION A	23 FEET	34-36 F		3,411 SF
ELEC ROOM	NO CEILING	72 - 75 F		519 SF
ENTRY				115 SF
GERMINATION CHAMBER A1	10 FEET	70 F	98%	1,646 SF
GERMINATION CHAMBER A2	10 FEET	70 F	98%	2,148 SF
HALL	10 FEET	72 - 75 F		367 SF
HOOP HOUSES				173,996 SF
KITCHENETTE	NO CEILING	72 - 75 F		652 SF
LAB A	10 FEET	72 - 75 F		495 SF
LOBBY	10 FEET	72 - 75 F		289 SF
LOCKERS	8 FEET	72 - 75 F		171 SF
MIXING	10 FEET	VENTED ONLY		661 SF
MOP 1	NO CEILING	VENTED ONLY		28 SF
MOP 2	NO CEILING	VENTED ONLY		45 SF
OFFICE	10 FEET	72 - 75 F		436 SF
PACKHOUSE A1	20 FEET IMP	34-36 F		3,895 SF
PACKHOUSE A2	20 FEET IMP	34-36 F		1,608 SF
PRODUCTION AREA A	NO CEILING	50 - 80 F VENTED		3,560 SF
WAREHOUSE A	23 FEET	50 - 80 F, VENTED		2,684 SF
WC (M)	8 FEET	EXHAUST ONLY		234 SF
WC (W)	8 FEET	EXHAUST ONLY		233 SF
WORKSHOP A	NO CEILING	72 - 75 F		979 SF

NOTES - POWER & COMMUNICATIONS RCP

1. FOLLOW ALL MANUFACTURER RECOMMENDATIONS FOR INSTALLATION.
2. ACCESSIBLE HEIGHT OF OUTLETS FROM FINISH FLOOR IS 15" MEASURE TO THE BOTTOM OF THE OUTLET AND 48" TO THE TOP OF THE OUTLET.
3. LOCATE RECEPTACLES AND PHONE JACKS WITHIN 1'-0" WHEN NOTED TO BE GANGED.
4. REFER TO ELECTRICAL ENGINEER'S DRAWINGS FOR CIRCUITING AND POWER REQUIREMENTS.
5. COMPUTER NETWORK WIRING TYPE TO BE DETERMINED BY OWNER.
6. ALL AUDIO VISUAL AND COMPUTER EQUIPMENT BY OWNER HOWEVER ALL WIRING AND TERMINATIONS BY GC.

LEGEND - REFLECTED CEILING PLAN

CEILING TYPES		NOTATIONS	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	CEILING TYPE 1: EXPOSED UNDERSIDE OF STRUCTURE, SEE DETAIL	0"	CHANGE IN PLANE OR SLAB, SEE STRUCTURAL DRAWINGS
	CEILING TYPE 2: 5/8" TYPE "X" GWB ON CEILING ASSEMBLY. FINISH AS SCHEDULED	FC 0	FLOOR/CEILING ASSEMBLY CALLOUT
	CEILING TYPE 3: ACOUSTIC CEILING TILE AS SCHEDULED		

CEILING DEVICES AND SYMBOLS			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SUPPLY DIFFUSER, S.M.D.	OS	OCCUPANCY SENSOR, S.E.D.
	RETURN DIFFUSER, S.M.D.		EXIT SIGN FIXTURE
	MECHANICAL DUCT, S.M.D.		SPRINKLER
	SUPPLY OR RETURN, S.M.D.	FA SA	FIRE ALARM DEVICE
SD	SMOKE DETECTOR		CEILING PATTERN START POINT

0' 5' 10' 20'

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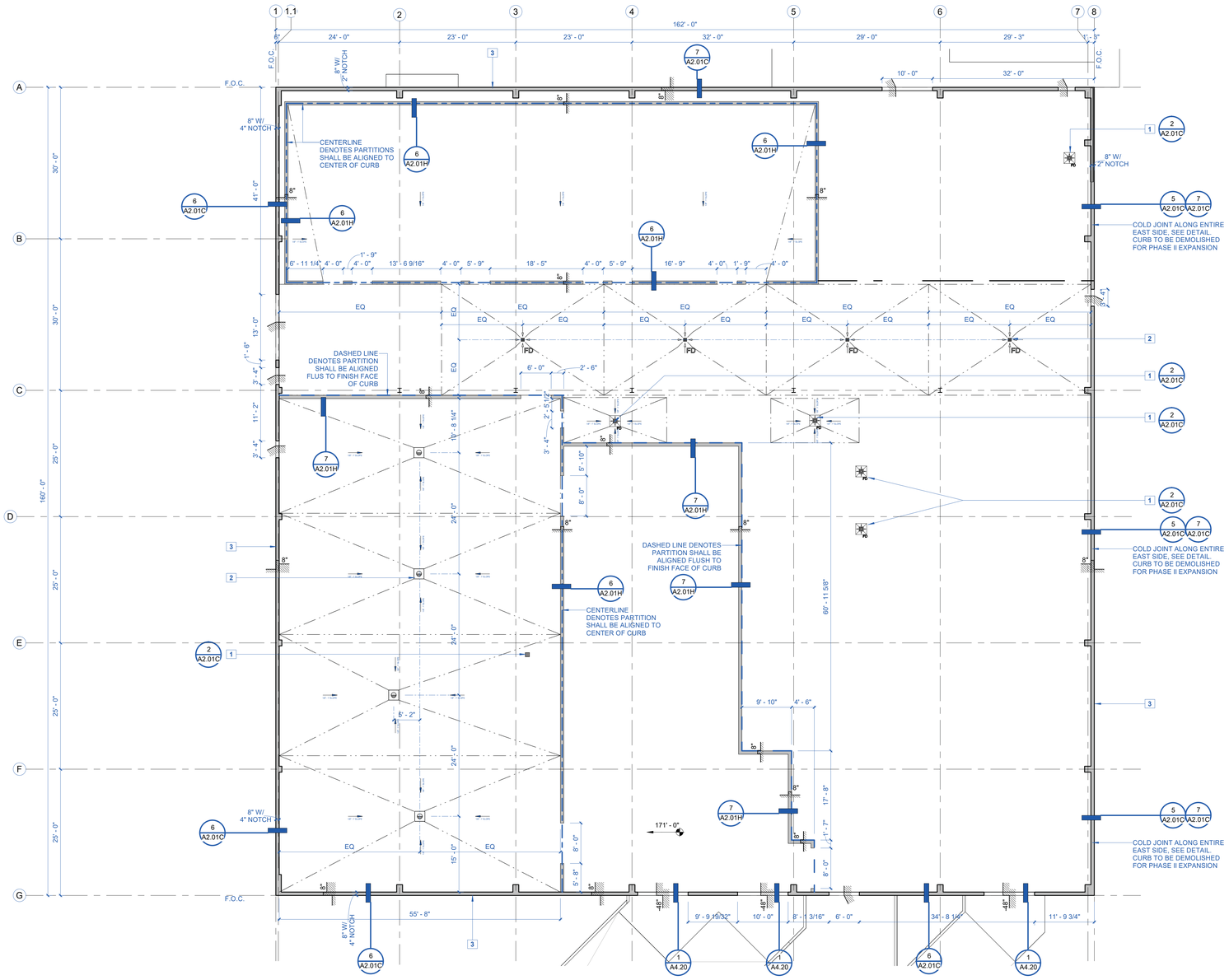
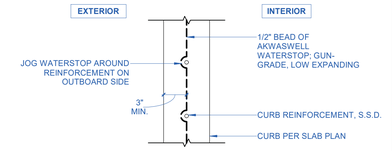


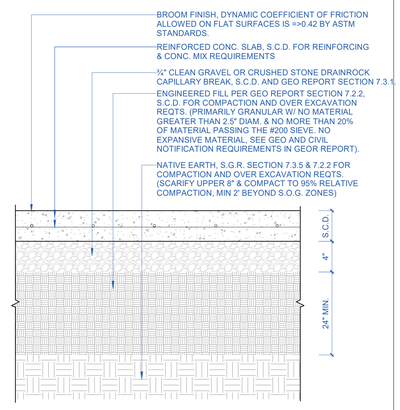
1 A2.01C SLAB PLAN - LEVEL 01
1" = 10'-0"

KEYNOTES - SLAB PLAN

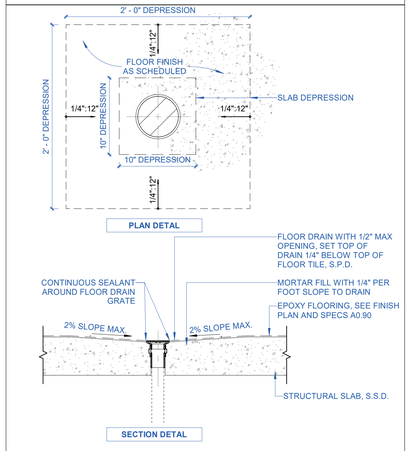
1. FLOOR DRAIN, S.P.D.
2. SLOPE MIN 1/8" PER FOOT TO DRAIN, TYP
3. 8" HIGH CONCRETE CURBS AT EXTERIOR WALL, SEE DETAIL, COORDINATE WITH COLUMN BASE PLATE ATTACHMENT



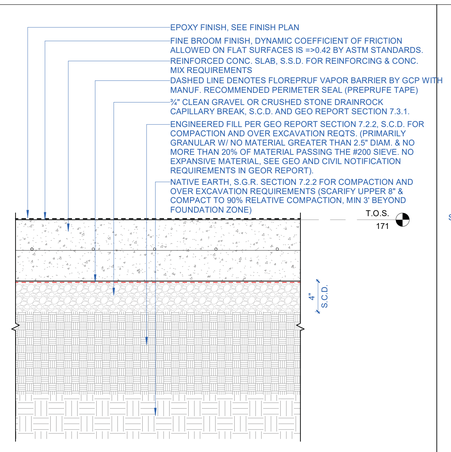
4 A2.01C WATER STOP DETAIL
1 1/2" = 1'-0"



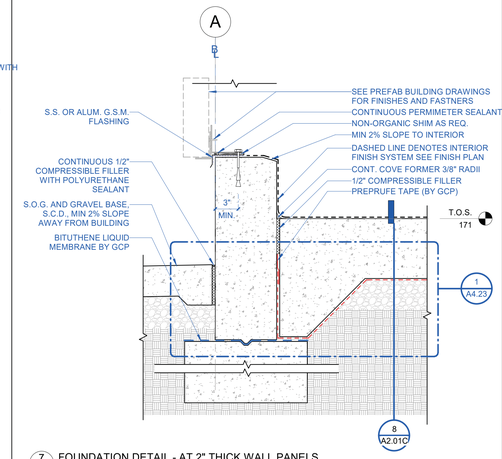
3 A2.01C FC-2 - SLAB ON GRADE - TYPICAL EXTERIOR PAVING
1 1/2" = 1'-0"



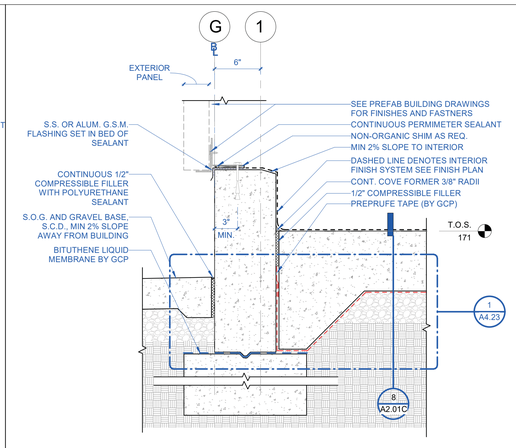
2 A2.01C FLOOR DETAIL - FLOOR DRAIN
1 1/2" = 1'-0"



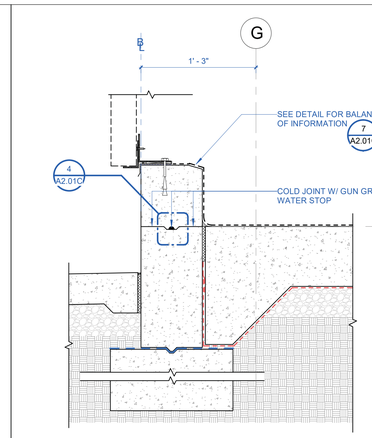
8 A2.01C FC-1 - SLAB ON GRADE - INTERIOR STRUCTURAL SLAB
1 1/2" = 1'-0"



7 A2.01C FOUNDATION DETAIL - AT 2" THICK WALL PANELS
1 1/2" = 1'-0"



6 A2.01C FOUNDATION DETAIL - AT 4" THICK WALL PANELS
1 1/2" = 1'-0"



5 A2.01C FOUNDATION DETAIL - AT COLD JOINT ONLY ON EAST SIDE
1 1/2" = 1'-0"

LEGEND - SLAB PLAN

NOTE: GC TO COORDINATE WITH PARTITION SCHEDULES FOR WALL & CURB THICKNESS
ALL CURBS ARE 8" HIGH UNLESS OTHERWISE NOTED

SYMBOL	DESCRIPTION
HIGH PLANE 0" LOW PLANE	CHANGE IN PLANE OF SLAB, HEIGHT AS NOTED. S.S.D.
0"	CONCRETE CURB, SEE PARTITION SCHEDULE FOR DIMENSIONS UNLESS NOTED OTHERWISE. S.S.D.
(-)"	CHANNEL SLAB DEPRESSION, DEPTH AS NOTED. S.S.D.
BOTTOM OF SLOPE TOP OF SLOPE	CHANGE IN SLOPE AT TOP AND BOTTOM OF RAMP. SEE STRUCTURAL DRAWINGS
	SLAB DEPRESSION, SEE STRUCTURAL DRAWINGS
XX' - X"	FINISH ELEVATION
1/8" / 1'-0"	SLOPE TO DRAIN IN DIRECTION OF ARROW, 1/4":12" U.O.N.
F.O.C.	FACE OF CONCRETE
F.O.S.	FACE OF STUD / STRUCTURE
F.O.SH	FACE OF SHEATHING

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SHEET TITLE :
LEVEL 01 - SLAB PLAN

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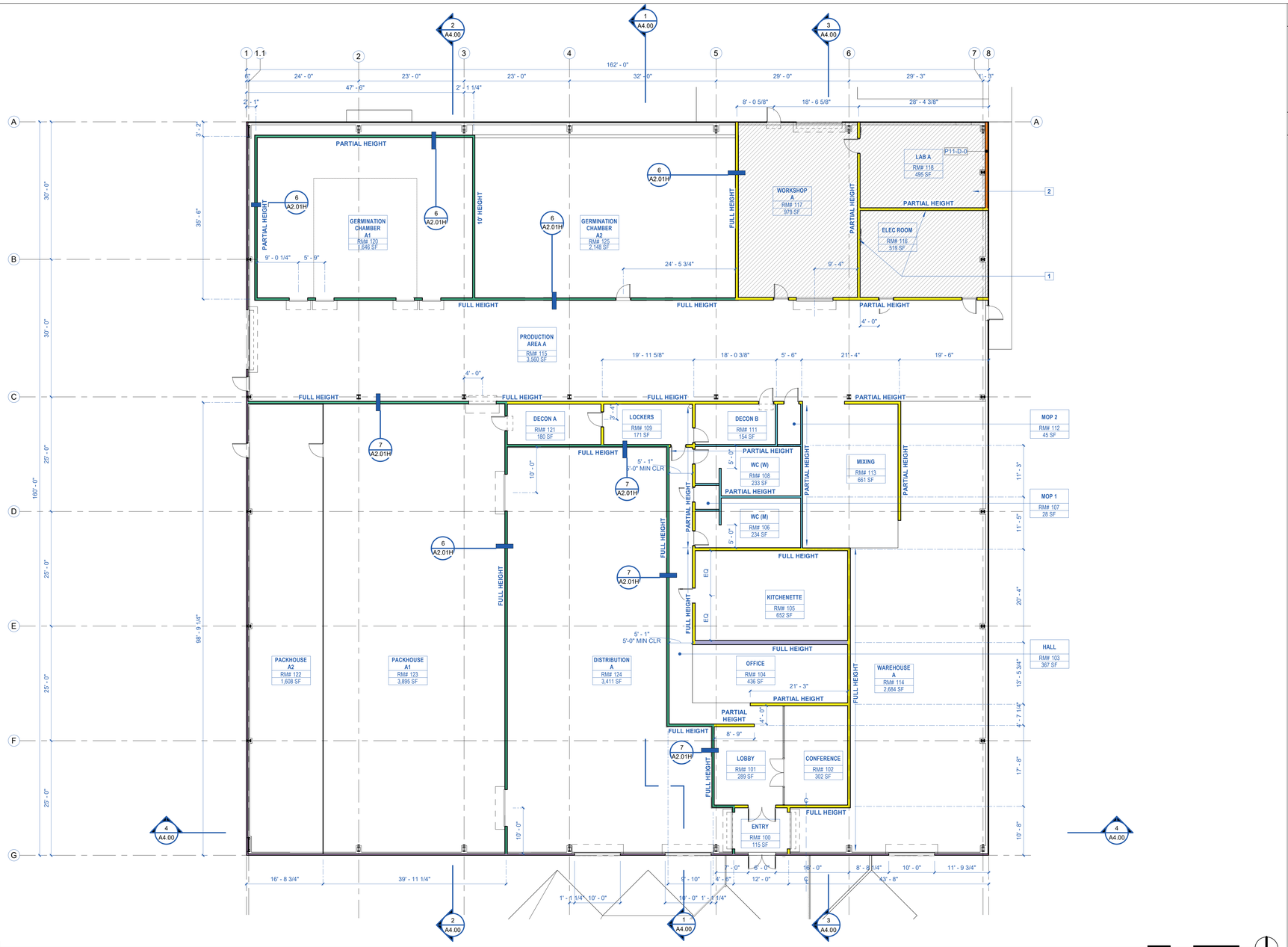

1 SETOUT PLAN - LEVEL 01
1" = 10'-0"

0' 5' 10' 20'

KEYNOTES - SET OUT PLAN

1 PROVIDE 4" x 8" F.R.T. PLYWOOD BACKING FOR PANELS AND SERVER
2 HATCH DENOTES STORAGE MEZZANINE ABOVE

LEGEND - PARTITION TYPES

IMP-1	**R-19** 2" BUTLER SHADOW WALL PANEL PROVIDED BY BUILDING MANUF.
IMP-2	**R-38** 4" BUTLER SHADOW WALL PROVIDED BY BUILDING MANUF.
RP-1	**R-38** 4" REFRIGERATION PANEL
P12-E-0	6" MTL. STUD W/ 5/8" W. TYPE X G.B. AND W.R.G.B AT WET LOCAITONS AND **R-19** BATT INSULATION
P12-C-0	3-5/8" MTL. STUD W/ 5/8" W.R.G.B AND **R-19** BATT INSULATION
D14-C-0	3-5/8" DOUBLE MTL. STUD ACOUSTIC PARTITION W/ 1" GAP & 5/8" W.R.G.B ON WET SIDE AND DOUBLE **R-19** BATT INSULATION (STC 60)
P12-C-0	3-5/8" MTL. STUD W/ 5/8" W.R.G.B

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HOLLISTER, CA
2370 SHORE ROAD
HOLLISTER, CA 95023
REF. PLAN CHECK # XXXXX

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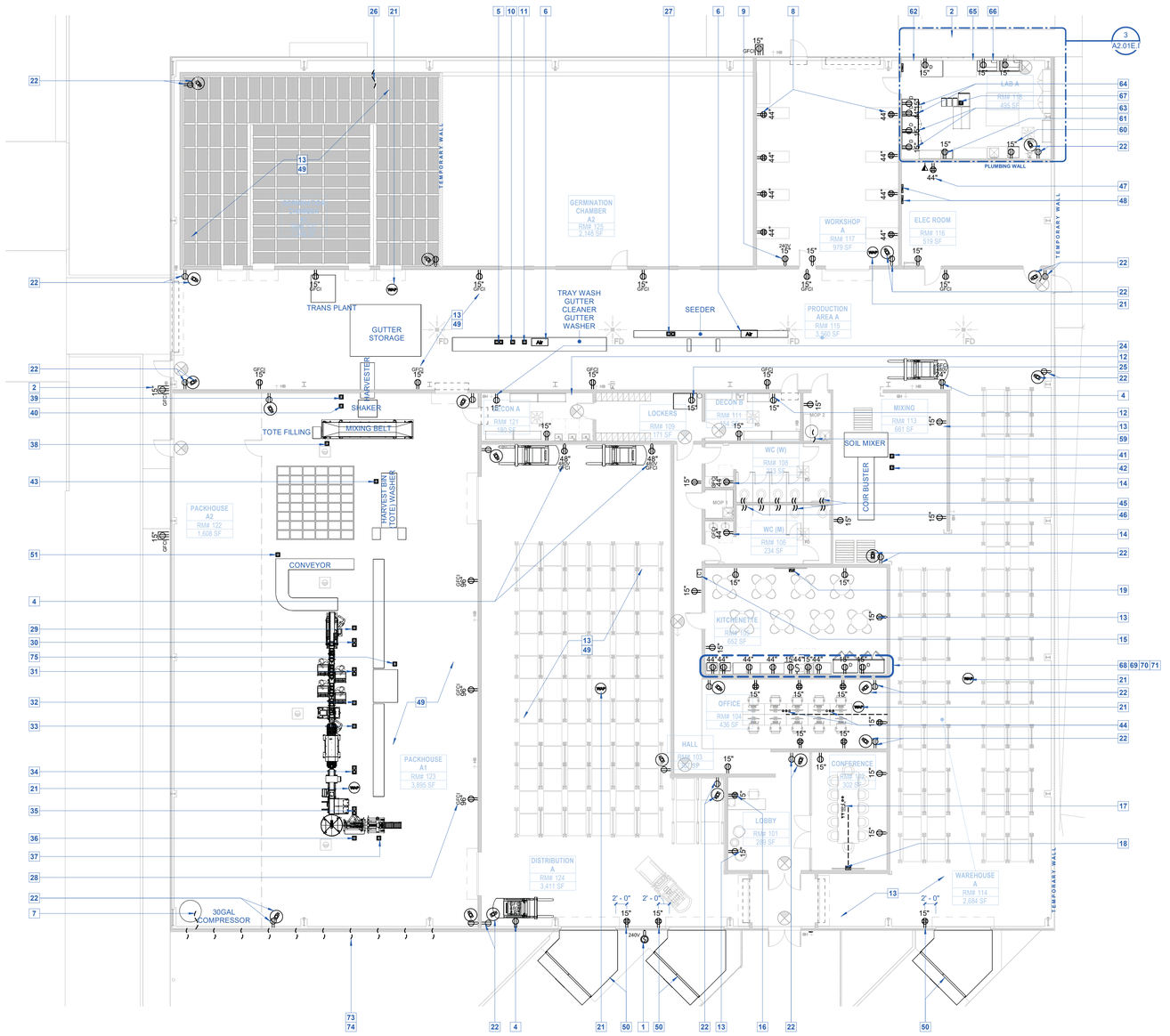
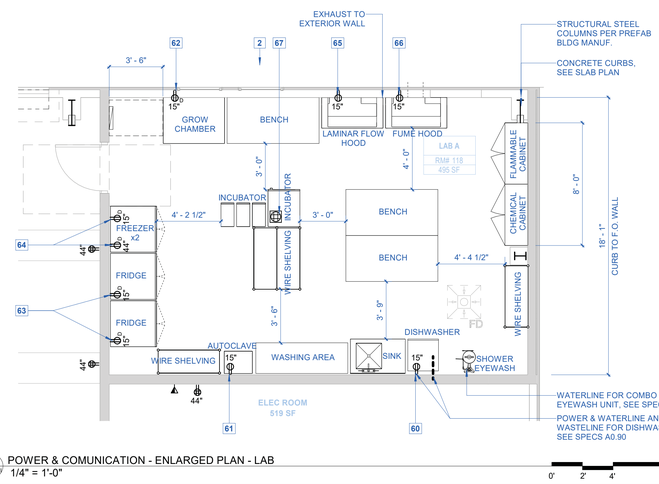


1 A2.01E.I POWER & COMUNICATION - LEVEL 01 - PHASE 1
1" = 10'-0"



3 A2.01E.I POWER & COMUNICATION - ENLARGED PLAN - LAB
1/4" = 1'-0"

KEYNOTES - POWER, COMM. AND DATA

1. 240V EV SUPPLY FOR TRUCK TRAILER, ALSO SEE CAL GREEN SEC. 5.106.5.5.1 & PARKING SCHEDULE FOR EV READINESS REQUIREMENTS, S.E.D. (240V 3P)
2. NOT USED
3. NOT USED
4. ** GFCI POWER RECEPTACLE FOR FORKLIFT CHARGING, CONFIRM LOCATION AND QUANTITY WITH OWNER, S.E.D. (480V 3P)
5. (V.I.F.) TRAY WASH - OVERHEAD POWER AND DATA, S.E.D. (440V 3P)
6. (V.I.F.) OVERHEAD RETRACTABLE COMPRESSED-AIR DROP, S.M.D., S.E.D. (120V 1P)
7. (V.I.F.) POWER FOR 30 GAL COMPRESSOR, S.M.D., S.E.D.
8. ** QUAD POWER RECEPTACLES AT EACH WORK BENCH, CONFIRM LOCATIONS AND QUANTITY WITH OWNER, PROVIDE OVERHEAD POWER AS NEEDED, S.E.D.
9. POWER FOR WORKSHOP EQUIPMENT, S.E.D. (240V 3P)
10. (V.I.F.) GUTTER CLEANER - OVERHEAD POWER, S.E.D. (230V 3P)
11. (V.I.F.) GUTTER WASHER - OVERHEAD POWER, S.E.D. (230V 3P)
12. CONVENIENCE POWER RECEPTACLES FOR EQUIPMENT IN DECONTAMINATION ROOMS
13. * CONVENIENCE POWER RECEPTACLES AS REQUIRED BY ELECTRICAL CODE, S.E.D.
14. ** CONVENIENCE GFCI POWER RECEPTACLE, S.E.D.
15. DATA FOR CLOCK IN KIOSK, CONFIRM LOCATION WITH OWNER
16. * QUAD POWER RECEPTACLE AT RECEPTION DESK
17. FLOOR POKE THRU DEVICE, COORDINATE LOCATION WITH FURNITURE LAYOUT. DASHED LINE DENOTES CONDUIT RUN. TYP REQUIREMENTS: (4) DATA, (8) POWER, (1) HDMI, (1) THUNDERBOLT CONNECTION TO TV, S.E.D.
18. RECESSED WALL MOUNTED AUDIO/VIDEO BOX TO INCLUDE (1) DATA, (2) POWER, (1) HDMI, (1) THUNDERBOLT CONNECTION. COORDINATE MOUNTING HEIGHT BEHIND TV. GOOGLE VIDEO CONFERENCE (240V 1P)
19. WALL RECESSED AV BOX FOR TV, CONFIRM LOCATION WITH OWNER, S.E.D. (120V 1P)
20. -NOT USED-
21. CEILING MOUNTED JBOX WITH POWER AND DATA FOR WIRELESS ACCESS DEVICE
22. SECURITY CAMERA AT CEILING, TYP, COORDINATE HEIGHT AND LOCATION OF POWER RECEPTACLE WITH OWNER (120V 1P)
23. -NOT USED-
24. POWER RECEPTACLE FOR DECON MIXING STATION, S.E.D. (120V 1P)
25. POWER RECEPTACLE FOR WASHER/DRYER, S.M.D., S.P.D., S.E.D. (480V 3P)
26. POWER FOR GERMINATION CHAMBER HEATING, S.M.D., S.E.D.
27. (V.I.F.) SEEDER - OVERHEAD POWER AND DATA, S.E.D. (8.5kW 240V 3P)
28. (V.I.F.) GFCI RECEPTACLES 96" A.F.F. FOR PACKHOUSE EQUIPMENT, 20' O.C. TYP, S.E.D.
29. (V.I.F.) DENESTER - OVERHEAD POWER, S.E.D. (200-230v 1P)
30. (V.I.F.) INDEX CONVEYER - OVERHEAD POWER AND DATA, S.E.D. (480v 3P)
31. (V.I.F.) SCALES - OVERHEAD POWER AND DATA, S.E.D. (208v 1P)
32. (V.I.F.) SALAD TAMP - OVERHEAD POWER, S.E.D. (200-230v 1P)
33. (V.I.F.) TRAY SEALER - OVERHEAD POWER, S.E.D. (480v 3P)
34. (V.I.F.) CHECK WEIGHER - OVERHEAD POWER AND DATA, S.E.D. (200-230v 1P)
35. (V.I.F.) ROTARY TABLE - OVERHEAD POWER AND DATA, S.E.D. (120V 1P)
36. (V.I.F.) CASE ERECTOR - OVERHEAD POWER, S.E.D. (120V 1P)
37. (V.I.F.) CASE CLOSER - OVERHEAD POWER, S.E.D. (120V 1P)
38. (V.I.F.) MIXING BELT - OVERHEAD POWER AND DATA, S.E.D. (480v 3P)
39. (V.I.F.) HARVESTER - OVERHEAD POWER, S.E.D. (400V 3P)
40. (V.I.F.) FINES REMOVAL SHAKER CONVEYER - OVERHEAD POWER, S.E.D. (480V 3P)
41. (V.I.F.) SOIL MIXER - OVERHEAD POWER, S.E.D. (230V 3P)
42. (V.I.F.) COIR BUSTER - OVERHEAD POWER, S.E.D. (230V 3P)
43. (V.I.F.) HARVEST BIN WASHER - OVERHEAD POWER, S.E.D. (240V 3P)
44. TWO FLOOR RECESSED POWER RECEPTACLES WITH TEN (10) RECEPTACLES EACH (TWO OUTLETS PER DESK), COORDINATE WIREMOLD UNDER CARPET FROM WALL, S.E.D.
45. POWER FOR AUTOMATIC FLUSHOMETERS AT TOILETS, S.P.D., S.E.D.
46. POWER FOR AUTOMATIC FLUSHOMETERS AT URINALS, S.P.D., S.E.D.
47. POWER AND DATA FOR I.T. SERVER, S.E.D. (240V 3P)
48. MPOE: ELECTRICAL PANEL, LIGHTING PANEL, S.E.D.
49. POWER RECEPTACLES IN PACKHOUSE, DISTRIBUTION, PRODUCTION AND GERMINATION AREAS SHALL BE GFCI (ALL INTERIOR SURFACES GET DIRECT WASH DOWN), S.E.D.
50. "DOCKZILLA" INSULATED MODULAR DOCK HOUSE ASSEMBLY. PROVIDE DEDICATED QUAD 115V, 10.5A POWER RECEPTACLE AT EACH MODULAR DOCK HOUSE CONTROL BOX, COORDINATE WITH MANUF, S.E.D.
51. (V.I.F.) CONVEYOR BELT - OVERHEAD POWER (480v 3P)
52. (V.I.F.) BULK VIBRATORY FEEDER/ELEVATOR - OVERHEAD POWER & DATA, S.E.D. (480v 3P)
53. (V.I.F.) MULTIHEAD SALAD WEIGHER - OVERHEAD POWER & DATA, S.E.D. (208v 1P)
54. (V.I.F.) ROTARY FILLER - OVERHEAD POWER, S.E.D. (480v 3P)
55. (V.I.F.) INSPECTION CONVEYER - OVERHEAD POWER, S.E.D. (480v 3P)
56. (V.I.F.) LEAF TUCK - OVERHEAD POWER, S.E.D. (200-230v 1P)
57. (V.I.F.) PACK TURNER - OVERHEAD POWER, S.E.D. (200-230v 1P)
58. (V.I.F.) SCALES - OVERHEAD POWER AND DATA, S.E.D. (208v 1P)
59. POWER FOR WATERHEATER, S.P.D., S.E.D.
60. POWER RECEPTACLE FOR DISHWASHER, S.P.D., S.E.D. (120V 1P)
61. POWER RECEPTACLE FOR AUTOCLAVE, S.E.D. (115V OR 230V)
62. DEDICATED POWER FOR GROW CHAMBER, S.E.D. (115v)
63. DEDICATED POWER FOR TWO (2) REFRIDGERATORS, S.E.D. (120V 1P)
64. DEDICATED POWER FOR TWO (2) FREEZERS, S.E.D. (120V 1P)
65. POWER RECEPTACLE FOR LAMINAR FLOW HOOD, S.E.D. (AC220v OR 110v)
66. POWER RECEPTACLE FOR FUME HOOD, S.E.D. (120v)
67. (V.I.F.) OVERHEAD POWER FOR INCUBATORS, CONFIRM QUANTITY WITH OWNER, S.E.D. (120v 1P)
68. * , ** FOOD WASTE DISPOSAL, PROVIDE SWITCH OVER COUNTER AND POWER RECEPTACLE UNDER COUNTER NEAR SINK (120V 1P)
69. * TWO (2) REFRIGERATORS, PROVIDE DEDICATED CIRCUITS FOR EACH (120V 1P)
70. * DISHWASHER, PROVIDE POWER RECEPTACLE UNDER COUNTER (480V 3P)
71. FOUR (4) MICROWAVES, COORDINATE LOCATIONS OF POWER RECEPTACLES AND GROMMETS IN MILLWORK AS REQ'D, SEE INTERIOR ELEVATION (120V 1P)
72. ** (3) OVER COUNTER CONVENIENCE POWER RECEPTACLES, GFCI AS REQ'D, S.E.D.
73. CONDENSER (460V 3P), TYP, S.M.D., S.E.D.
74. EVAPORATOR (460V 3P), TYP, S.M.D., S.E.D.
75. (V.I.F.) MANUAL PACK TABLE - OVERHEAD POWER (120V 1P)

NOTES
* SEE HEIGHT ANNOTATION ON PLAN, MINIMUM HEIGHT 15" A.F.F. MEASURED TO BOTTOM OF THE DEVICE
** SEE HEIGHT ANNOTATION ON PLAN, MAXIMUM HEIGHT 48" A.F.F. MEASURED TO TOP OF THE DEVICE, OR 44" A.F.F. MAX TO TOP WHEN DEVICE IS LOCATED OVER A DESK OR COUNTER
(V.I.F.) CONTRACTOR TO FIELD VERIFY POWER AND DATA LOCATIONS IN PROXIMITY TO EQUIPMENT, COORDINATE WITH OWNER

NOTES GENERAL - POWER

A. **WALK THROUGH:** A WALK THROUGH WITH THE OWNER AND THE ARCHITECT SHALL BE SCHEDULED BY THE CONTRACTOR UPON COMPLETION OF THE INSTALLATION OF ALL ELECTRICAL BOXES AND FIXTURE HOUSING PRIOR TO WIRING AND DRYWALL CLOSE-IN TO REVIEW LOCATIONS OF ALL THERMOSTATS, PHONE, DATA, POWER, LIGHTING AND ELECTRICAL FIXTURES. VERIFY WITH THE OWNER AND THE ARCHITECT TO INSTALLATION THE LOCATION OF REMOTE POWER PANELS, DISCONNECT SWITCHES, SPECIAL PANELS, THERMOSTATS, SWITCHES, ALARMS OR ANY DEVICE EXPOSED TO VIEW AND NOT SHOWN ON THE DRAWINGS.
B. **MEP:** REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL NOTES AND INFORMATION. NOTIFY THE ARCHITECT OF ANY CONFLICTS WITH DESIGN INTENT, PRIOR TO CONSTRUCTION.
C. **COVER PLATES:** SHALL BE ONE PIECE TYPE, UNLESS OTHERWISE NOTED.
D. VERIFY ALL EQUIPMENT MOUNTING REQUIREMENTS, AND POWER SPECIFICATIONS INCLUDING ALL NECESSARY BACK BOARDS, ELECTRICAL OUTLETS, CONDUIT, ET CETERA., AS REQUIRED BY OWNERS' TELEPHONE COMPANY, PRIOR TO INSTALLATION OF POWER AND COMMUNICATIONS UTILITIES.
E. **ELECTRICAL RECEPTACLES:** TO BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE, CONTACT THE ARCHITECT IF CONFLICT EXISTS PRIOR TO INSTALLATION. STANDARD WALL OUTLETS SHALL BE INSTALLED VERTICALLY, U.O.N. CONTRACTOR IS RESPONSIBLE FOR ADDITIONAL OUTLETS REQUIRED BY CODE. CONTACT ARCHITECT FOR LOCATIONS PRIOR TO INSTALLATION.
F. **DEDICATED CIRCUITS:** CONTRACTOR TO DETERMINE WHICH EQUIPMENT REQUIRES SOLE DEDICATION OF A CIRCUIT AND INSTALL SUCH CIRCUIT.
G. ALL ELECTRICAL SYSTEMS, DEVICES AND RELATED ITEMS SHALL BE TESTED. REPLACE ANY AND ALL DEFECTIVE DEVICES, ITEMS OR SYSTEMS BEFORE COMPLETION OF THE PROJECT.
H. DEVICES ON THE OPPOSITE SIDES OF COMMON WALLS SHALL BE LOCATED IN SEPARATE STUD CAVITIES. NO BACK-TO-BACK DEVICES. WHERE SPECIFIC DIMENSIONS CONTRADICT THIS NOTE, THE GENERAL CONTRACTOR SHALL RELOCATE ONE OUTLET TO THE OPPOSITE SIDE OF THE STUD NEAREST THAT DIMENSION.
I. **CIRCUIT CONTROLS FOR 120 VOLT RECEPTACLES.** IN ALL BUILDINGS, BOTH CONTROLLED AND UNCONTROLLED 120 VOLT RECEPTACLES SHALL BE PROVIDED IN EACH PRIVATE OFFICE, OPEN OFFICE AREA, RECEPTION LOBBY, CONFERENCE ROOM, KITCHENETTE IN OFFICE SPACES, AND COPY ROOM. **(CEC 130.5(d)).**

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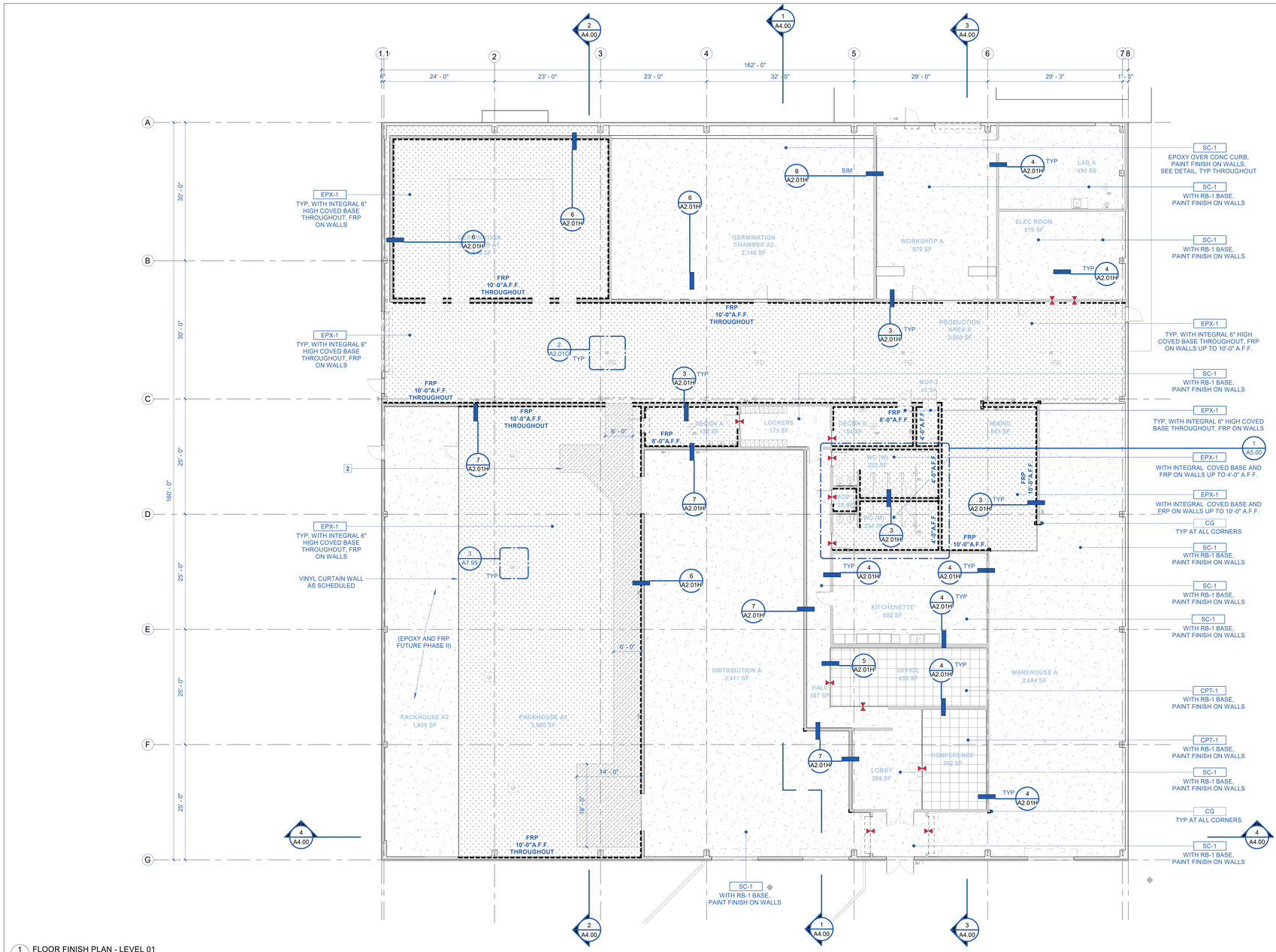


1 A2.01H FLOOR FINISH PLAN - LEVEL 01
1" = 10'-0"

0' 5' 10' 20'

KEYNOTES - FLOOR FINISH

1 PAINT STRIPING ON FLOOR TO DEMARK CAUTION AREA FOR FORKLIFT. MIN 6'-0" WIDTH, COORDINATE STRIPING WITH PACKING EQUIPMENT LAYOUT, VERIFY IN FIELD.

NOTES GENERAL - FLOOR FINISH

1. ALL FLOORING AND BASE MATERIALS TO BE INSTALLED ACCORDING TO SPECIFICATIONS.
2. COORDINATE FINAL LOCATION OF ALL FLOOR DRAINS WITH EQUIPMENT, ALSO S.P.D.

LEGEND - FLOOR FINISH

EPOXY FLOOR SEALER, WITH 6" COVED BASE

EPX-1

LOCATION	PER FLOOR FINISH PLAN
MANUFACTURER	ARIZONA POLYMER FLOORING
STYLE / MODEL	CastorCrete SL-B w/ EPOXY 600 TOP COAT
COLOR / FINISH	WHITE - CONFIRM WITH OWNER
NOTES:	SLIP RESISTANT, C.O.F. (ASTM C1028) 0.86 DRY; 0.69 WET SURFACE AREAS WITH POLYMER EPOXY FLOOR FINISH (APF) TO BE PREPARED PER MANUFACTURER REQUIREMENTS. RETURN COVED BASE 6" UP WALL, TYP THROUGHOUT

WALL FINISH - FRP

FRP-1

LOCATION	AS NOTED ON PLAN
MANUFACTURER	MARLITE
STYLE / MODEL	SMOOTH
COLOR / FINISH	S 100 S/2/S WHITE
NOTES:	OVERLAP TOP OF EPOXY BASE, CONTINUE UP TO HEIGHT AS NOTED, SEE DETAIL

SEALED CONCRETE

SC-1

LOCATION	PER FLOOR FINISH PLAN
MANUFACTURER	CURECRETE DISTRICUTION INC.
STYLE / MODEL	ASHFORD FORMULA
COLOR / FINISH	FINE BROOM FINISH
NOTES:	CLEAR LIQUID HARDENER & DENSIFIER COEFFICIENT OF FRICTION (ASTM C1028) 0.86 DRY; 0.69 WET

CARPET TILE

CPT-1

LOCATION	OFFICE, CONFERENCE
MANUFACTURER	SHAW CONTRACT GROUP
STYLE / MODEL	TBD
COLOR / FINISH	TBD
NOTES:	

RESILIENT VINYL COVED BASE 6"H

RB-1

LOCATION	AT ALL SEALED CONC. AND CARPET TILE AREAS
MANUFACTURER	JOHNSONITE TARKETTE
STYLE / MODEL	DC-40-6 (COVED)
COLOR / FINISH	40 BLACK
NOTES:	.080 THICKNESS COVED

CARPET EDGE GUARD

EG-1

LOCATION	AS REQUIRED
MANUFACTURER	JOHNSONITE TARKETTE
STYLE / MODEL	EG-40-L
COLOR / FINISH	40 BLACK
NOTES:	COORDINATE WITH CARPET TILE THICKNESS

PAINT & PRIMER

PT-1

LOCATION	OVER WRGB AT ALL WET AREAS
MANUFACTURER	SHERWIN WILLIAMS
STYLE / MODEL	PRO INDUSTRIAL ACRYLIC SEMI-GLOSS B66-650
COLOR / FINISH	WHITE
NOTES:	PRIMER WITH PROMAR 200 ZERO VOC INTERIOR LATEX PRIMER, B28W2600 MAX VOC 100 g/L

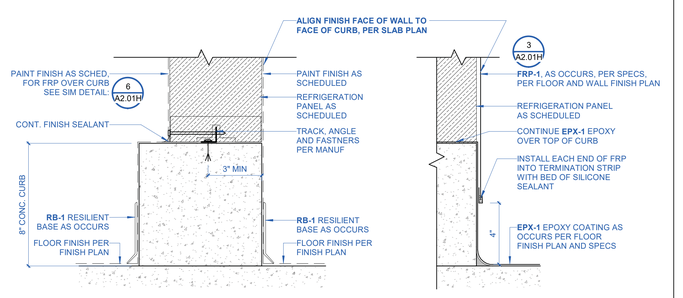
STAINLESS STEEL CORNER GUARDS

CG

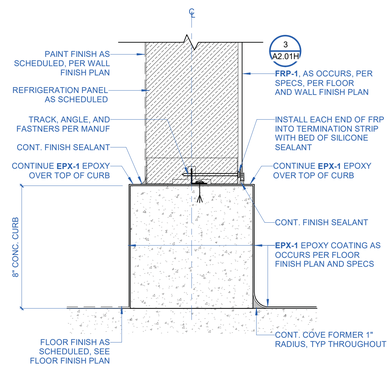
LOCATION	SEE WALL FINISH PALN
MANUFACTURER	
STYLE / MODEL	
COLOR / FINISH	STAINLESS STEEL
NOTES:	1 1/2" X 1 1/2" X 8'-0" FULLY ADHERED TO CORNER, TYP AT ALL CORNERS

TRANSITION SYMBOL

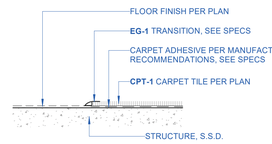
EDGE OF FINISH



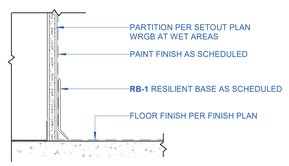
7 A2.01H ENLARGED DETAIL - REF PANEL ALIGNED TO FACE OF CURB
3" = 1'-0"



6 A2.01H ENLARGED DETAIL - REF PANEL CENTERED ON CURB
3" = 1'-0"

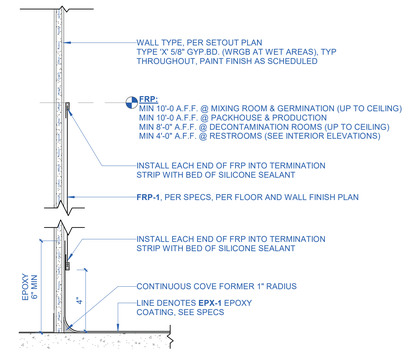


5 A2.01H TRANSITION DETAIL - CARPET@ FLOOR
3" = 1'-0"



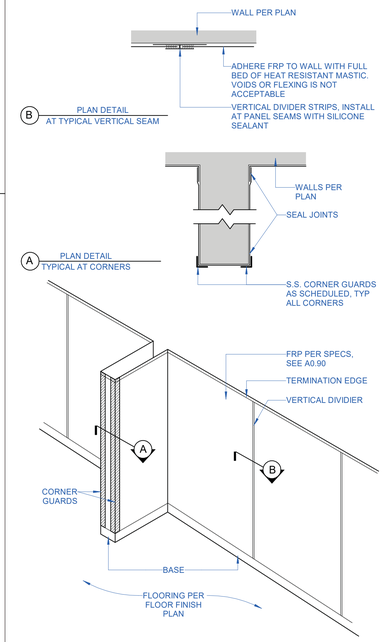
NOTE
GLUE DOWN TO SLAB USING MANUF RECOMMENDED ADHESIVE AND SHALL MEET VOC LIMITS PER CODE. SHAW 5000 PRESSURE SENSATIVE ADHESIVE, CRI GREEN LABEL + CERT. & SCAQMD Compliant Shaw 5036 meets AATCC 174

4 A2.01H BASE DETAIL - RESILIENT BASE
3" = 1'-0"



NOTE
GLUE DOWN TO SLAB USING MANUF RECOMMENDED ADHESIVE AND SHALL MEET VOC LIMITS PER CODE. SHAW 5000 PRESSURE SENSATIVE ADHESIVE, CRI GREEN LABEL + CERT. & SCAQMD Compliant Shaw 5036 meets AATCC 174

3 A2.01H BASE DETAIL - COVE BASE AT FRP
3" = 1'-0"



2 A2.01H TYPICAL FRP DETAILS
1" = 1'-0"

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STRUCTURAL: PACIFIC ENGINEERING GROUP, 9699 Blue Larkspur Lane, Ste. 104, Monterey, CA 93940, https://hawkinsengineering.net, T: 831.333.0644, Contact: Arthur J. Werner, E-Mail: ajw.pegi0340@gmail.com
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HIPPO HARVEST HOLLISTER, CA

2370 SHORE ROAD
HOLLISTER, CA 95023

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LEVEL 01 - FLOOR & WALL FINISH PLAN

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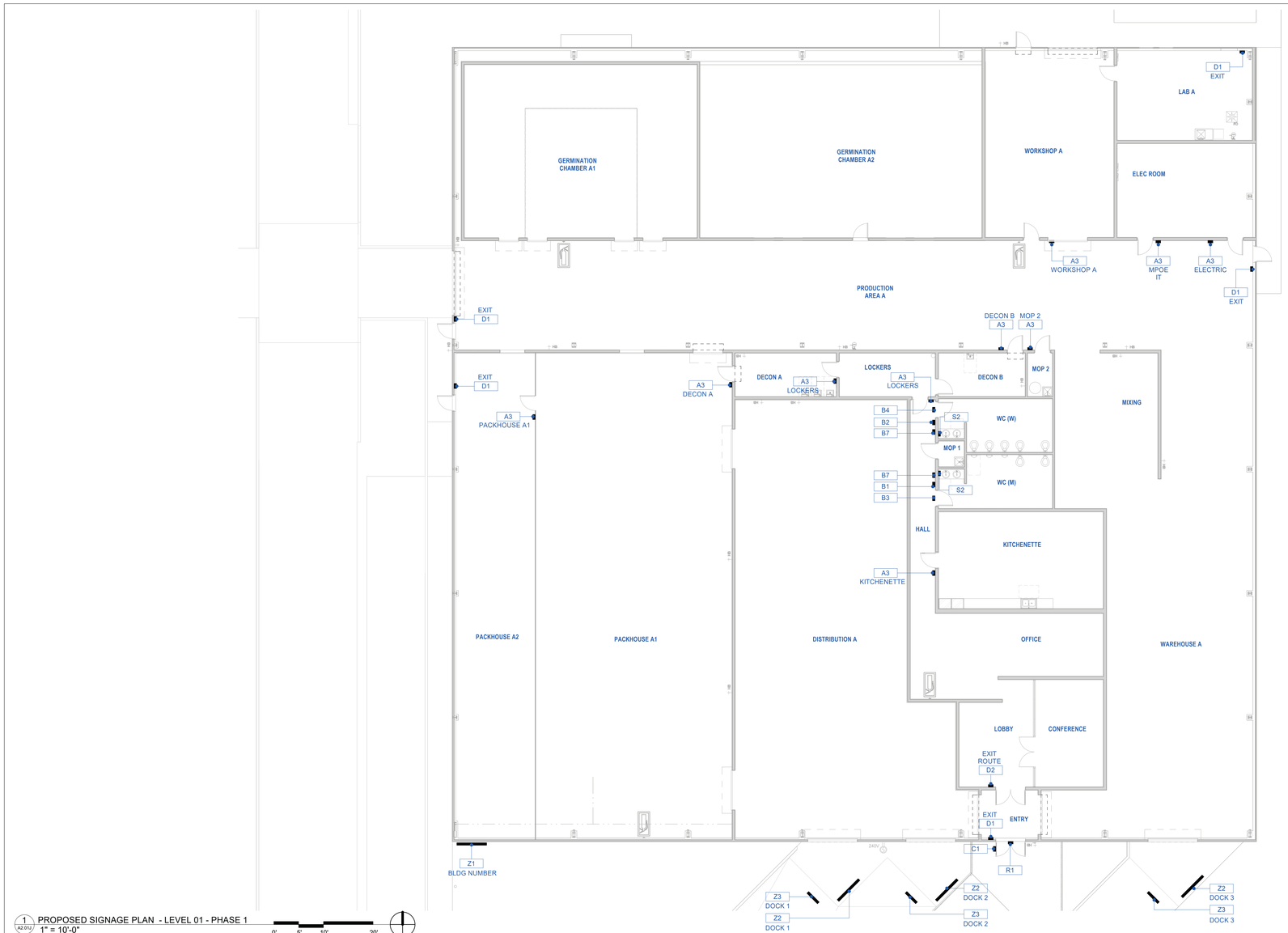


1 A2.01J PROPOSED SIGNAGE PLAN - LEVEL 01 - PHASE 1
1" = 10'-0"
0' 5' 10' 20'

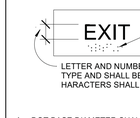
CODE SIGNAGE SCHEDULE			
SIGN ID	COUNT	MOUNTING TYPE	REMARKS
A3	10	WALL-MOUNT	(SEE GRAPHICS) CONFIRM LETTERING WITH OWNER
B1	1	DOOR-MOUNT	(SEE GRAPHICS)
B2	1	DOOR-MOUNT	(SEE GRAPHICS)
B3	1	DOOR-MOUNT	(SEE GRAPHICS)
B4	1	WALL-MOUNT	(SEE GRAPHICS)
B7	2	WALL-MOUNT	(SEE GRAPHICS)
C1	1	DOOR-MOUNT	(SEE GRAPHICS)
D1	5	WALL-MOUNT	(SEE GRAPHICS)
D2	1	WALL-MOUNT	(SEE GRAPHICS)
R1	1	MULLION MOUNT ABOVE DOOR	(SEE GRAPHICS)
S2	2	WALL-MOUNT	(SEE GRAPHICS)
Z1	1	WALL-MOUNT	(SEE GRAPHICS) CONFIRM LETTERING WITH OWNER
Z2	3	SURFACE-MOUNT	(SEE GRAPHICS) CONFIRM LETTERING WITH OWNER
Z3	3	SURFACE-MOUNT	(SEE GRAPHICS) CONFIRM LETTERING WITH OWNER

Grand total: 33

NOTES - SIGNAGE REQUIREMENTS

A. RAISED CHARACTERS SHALL COMPLY WITH 11B-703.2 AND SHALL BE DUPLICATED IN BRAILLE.
B. CHARACTERS AND BACKGROUND OF SIGNS IS EGGSHELL, MATTE, OR OTHER NON-GLARE FINISH.
C. CHARACTERS CONTRAST WITH THEIR BACKGROUND (LIGHT CHARACTERS ON A DARK BACKGROUND, OR DARK CHARACTERS ON A LIGHT BACKGROUND).
D. EACH GRADE LEVEL EXTERIOR DOOR EXIT SHALL READ "EXIT".
E. EACH EXIT DOOR THAT LEADS DIRECTLY TO A GRADE LEVEL EXTERIOR EXIT BY MEANS OF A STAIRWAY OR RAMP SHALL READ "EXIT STAIR DOWN" OR "EXIT STAIR UP".
F. EACH EXIT ACCESS DOOR FROM AN INTERIOR ROOM OR AREA THAT IS ALSO REQUIRED TO HAVE VISUAL EXIT SIGNS SHALL READ "EXIT ROUTE".
G. RAISED CHARACTERS SHALL BE 1/32" MIN ABOVE THEIR BACKGROUND
H. CHARACTERS SHALL BE UPPER CASE, SANS SERIF FONT
I. CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPER CASE LETTER 'O' IS 60 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPER CASE LETTER 'I'
J. CHARACTER HEIGHT MEASURED VERTICALLY FROM THE BASELINE SHALL BE 1/8" MIN AND 2" MAX BASED ON THE HEIGHT OF THE UPPER CASE LETTER 'I'
K. STROKE THICKNESS OF THE UPPER CASE LETTER 'I' SHALL BE 15 PERCENT MAX OF THE HEIGHT OF THE CHARACTER

A. TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48" MIN A.F.F. MEASURED FROM THE BASELINE OF THE LOWEST BRAILLE CELLS, AND 60" MAX A.F.F. MEASURED FROM THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS
B. BRAILLE SHALL BE CONTRACTED (GRADE 2) AND SHALL COMPLY WITH CBC SECTIONS 11B-703.3 AND 11B 703.4
C. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18"x18" MIN, CENTERED ON THE TACTILE CHARACTERS IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE COLSED POSITION AND 45 DEGREE OPEN POSITION.
D. CHARACTERS AND BACKGROUND OF SIGNS IS EGGSHELL, MATTE, OR OTHER NON-GLARE FINISH.



LETTER AND NUMBERS SHALL BE RAISED 1/32", UPPER CASE, SANS SERIF TYPE AND SHALL BE ACCOMPANIED WITH GRADE II BRAILLE. RAISED HARACTERS SHALL BE AT LEAST 5/8" HIGH, BUT NO HIGHER THAN 2".

A. DOT BASE DIAMETER SHALL BE 0.059" MIN TO 0.063" MAX
B. DISTANCE BETWEEN TWO DOTS IN THE SAME CELL SHALL BE 0.1", MEASURED ON CENTER
C. DISTANCE BETWEEN CORRESPONDING DOTS IN ADJACENT CELLS SHALL BE 0.3", MEASURED ON CENTER
D. DOT HEIGHT SHALL BE 0.025" MIN TO 0.037" MAX
E. DISTANCE BETWEEN CORRESPONDING DOTS FROM ONE CELL DIRECTLY BELOW SHALL BE 0.395" MIN TO 0.4" MAX

A. MOUNT ALL SIGNAGE IN VISIBLE, UNOBSTRUCTED LOCATIONS.
B. PROVIDE MATCHING BACKER AT ALL SIGNAGE ON GLASS WHERE OCCURS.
C. EXIT SIGNAGE IS INDICATED IN REFLECTED CEILING PLANS. PROVIDE WALL, CEILING, OR POST-MOUNTED SIGNAGE AS INDICATED. DIRECTIONAL INDICATORS TO BE PROVIDED AS SHOWN IN RCP SYMBOLS. TYPE A OCCUPANCY EXIT ROUTES TO INCLUDE ADDITIONAL FLOOR-LEVEL EXIT SIGNS.
D. ALL DOOR-MOUNTED SIGNAGE TO BE CENTERED HORIZONTALLY ON DOOR LEAF.
E. PROVIDE PANIC HARDWARE IN THE DIRECTION OF EGRESS TRAVEL.
F. PROVIDE TWO SOURCES OF POWER FOR MEANS OF EGRESS.
G. PROVIDE A SEPARATE SOURCE OF POWER FOR EXIT SIGN ILLUMINATION.

P13. (STOP SIGN)

P12. (WATCH FOR PEDESTRIANS)

NOTES:
- SIGNAGE TO COMPLY WITH **CBC 11B - 703.7**
- GALVANIZE ALL STEEL AFTER FABRICATION
- SEE ACCESSIBILITY DETAILS A0.6 SERIES

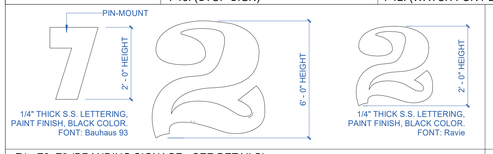
P4. (VAN ACCESSIBLE PARKING) P3. (ACCESSIBLE PARKING)

P2. (TOW AWAY)

NOTE:
THE "NO PARKING – FIRE LANE" SIGNS ARE TO BE INSTALLED AT A MINIMUM AT THE PUBLIC ENTRANCES TO THE FIRE APPARATUS ACCESS ROAD. WHERE NO PARKING SIGNS ARE NOT INSTALLED ALONG THE FIRE APPARATUS ROADWAY, THE CURBS ARE TO BE PAINTED RED WITH "FIRE LANE – NO PARKING" STENCILED AT A LETTERING HEIGHT OF 5 INCHES.

P1. (FIRE LANE - NO PARKING)

H1. (EXTERIOR DIRECTIONAL SIGN)

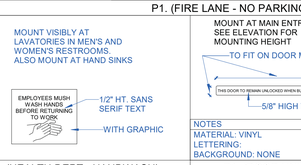


Z1. Z2. Z3 (BRANDING SIGNAGE - SEE DETAILS)



FIGURE 11B - 703. 7.2.4

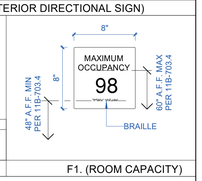
T1. (ASSISTIVE LISTENING)



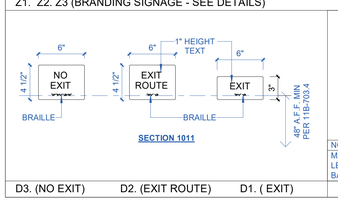
S2. (HEALTH DEPT - HANDWASH)

NOTES
MATERIAL: VINYL
LETTERING:
BACKGROUND: NONE

R1. (DOOR UNLOCKED)

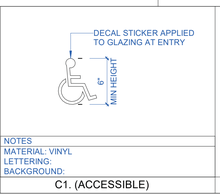


F1. (ROOM CAPACITY)



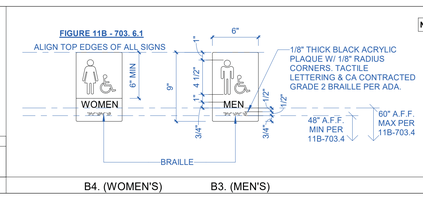
SECTION 1011

D3. (NO EXIT) D2. (EXIT ROUTE) D1. (EXIT)

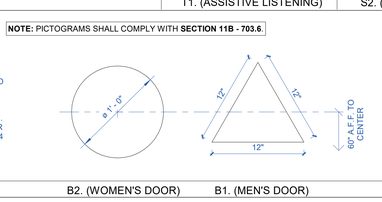


NOTES
MATERIAL: VINYL
LETTERING:
BACKGROUND:

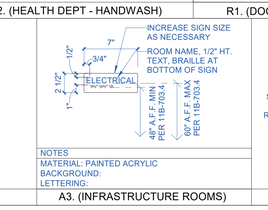
C1. (ACCESSIBLE)



B4. (WOMEN'S) B3. (MEN'S)

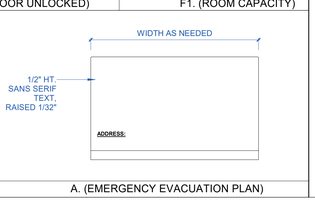


B2. (WOMEN'S DOOR) B1. (MEN'S DOOR)



NOTES
MATERIAL: PAINTED ACRYLIC
BACKGROUND:
LETTERING:

A3. (INFRASTRUCTURE ROOMS)



A. (EMERGENCY EVACUATION PLAN)

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HOLLISTER, CA 95023
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LEVEL 01 - SIGNAGE SCHEDULE

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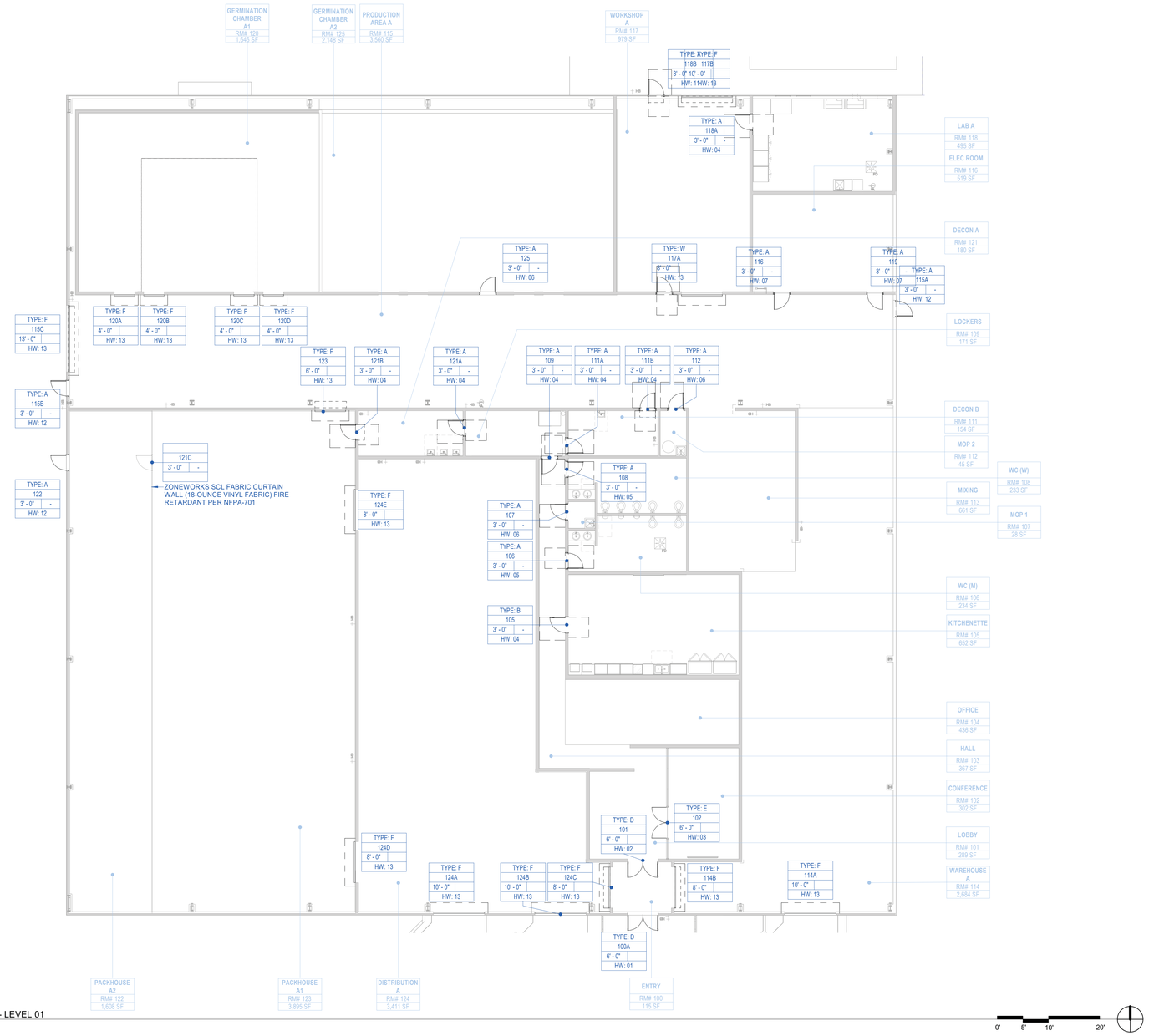


1 DOOR PLAN - LEVEL 01 (A2.01L)
1" = 10'-0"

DOOR HARDWARE GROUPS

CBC 11B-309.4: HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERABLE PARTS ON DOORS AND GATES THAT ARE IN A PATH OF TRAVEL SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. FORCE REQUIRED TO ACTIVATE SUCH PARTS SHALLBE 5 POUNDS MAXIMUM.
CBC 11B-404.2.7: OPERABLE PARTS OF SUCH HARDWARE SHALL BE 34" MINIMUM AND 44" MAXIMUM ABOVE FINISH FLOOR OR GROUND

HW:01 - BUILDING ENTRY STOREFRONT DOUBLE DOOR
CONFIRM WITH OWNER: PREP FOR FUTURE ELECTRIFIED HARDWARE
OVERHEAD STRIKE
ASTRAGAL
COORDINATOR
SURFACE MOUNTED CLOSERS
KEY CYLINDER WITH COVER CAP
THUMB TURN
LEVERS AND ENTRY LOCKSET
PANIC HARDWARE (REQUIRED WHEN OCC. LOAD >50)
VANDAL RESISTANT HINGES WITH NON-REMOVABLE PIN SET SCREW
AUTOMATIC DOOR BOTTOM / DOOR SWEEP
ACCESSIBLE THRESHOLD
WEATHER SEALS AT HEAD AND JAMBS
CONFIRM WITH OWNER: PREP FOR FUTURE ELECTRIFIED HARDWARE

HW:02 - INTERIOR STOREFRONT DOUBLE DOOR
CONFIRM WITH OWNER: PREP FOR FUTURE ELECTRIFIED HARDWARE
OVERHEAD STRIKE
ASTRAGAL
COORDINATOR
SURFACE MOUNTED CLOSERS W/90-DEG STOP
LEVERS AND ENTRY LOCKSET
PANIC HARDWARE (REQUIRED WHEN OCC. LOAD >50)
HEAVY DUTY BALL BEARING HINGES
AUTOMATIC DOOR BOTTOM / DOOR SWEEP
ACCESSIBLE THRESHOLD
ACOUSTIC SEALS AT HEAD AND JAMBS

HW:03 - INTERIOR STOREFRONT DOUBLE DOOR (CONFERENCE)
OVERHEAD STRIKE
ASTRAGAL
COORDINATOR
SURFACE MOUNTED CLOSERS W/90-DEG STOP
LEVERS AND OFFICE LOCKSET
HEAVY DUTY BALL BEARING HINGES
ACCESSIBLE THRESHOLD
ACOUSTIC SEALS AT HEAD AND JAMBS

HW:04 - INTERIOR SINGLE DOOR
SURFACE MOUNTED CLOSER
LEVERS AND PASSAGE FUNCTION
HEAVY DUTY BALL BEARING HINGES
WALL BUMPER
ACOUSTIC SEALS AT HEAD AND JAMBS
10"H S.S. IMPACT KICKPLATE EACH SIDE

HW:05 - RESTROOM
SURFACE MOUNTED CLOSER
LEVER AND PASSAGE FUNCTION
HEAVY DUTY BALL BEARING HINGES
WALL BUMPER
ACCESSIBLE THRESHOLD
ACOUSTIC SEALS AT HEAD AND JAMBS
10"H S.S. IMPACT KICKPLATE EACH SIDE

HW:06 - UTILITY
SURFACE MOUNTED CLOSER
LEVER AND STORAGE LOCKSET
HEAVY DUTY BALL BEARING HINGES
WALL BUMPER
ACOUSTIC SEALS AT HEAD AND JAMBS
10"H S.S. IMPACT KICKPLATE EACH SIDE

HW:07 - WORKSHOP / ELEC
SURFACE MOUNTED CLOSER
LEVER AND OFFICE LOCKSET
HEAVY DUTY BALL BEARING HINGES
WALL BUMPER
ACOUSTIC SEALS AT HEAD AND JAMBS
10"H S.S. IMPACT KICKPLATE EACH SIDE
CONFIRM WITH OWNER: PREP FOR FUTURE ELECTRIFIED HARDWARE

HW:08 - DOUBLE-ACTING DOUBLE DOOR
COMMERCIAL GRADE DOUBLE ACTION PIVOT HINGE
WITH 90-DEG HOLD-OPEN OPTION
S.S. PUSH PANELS EACH SIDE
WALL BUMPERS
ACOUSTIC SEALS AT HEAD AND JAMBS
10"H S.S. IMPACT KICKPLATE EACH SIDE

HW:11 - EXTERIOR SINGLE
CONFIRM WITH OWNER: PREP FOR FUTURE ELECTRIFIED HARDWARE
SURFACE MOUNTED CLOSER
LEVER AND ENTRY LOCKSET
10"H S.S. IMPACT KICKPLATE EACH SIDE
VANDAL RESISTANT HINGES WITH NON-REMOVABLE PIN SET SCREW
AUTOMATIC DOOR BOTTOM / DOOR SWEEP
WEATHER SEALS AT HEAD AND JAMBS
ACCESSIBLE THRESHOLD

HW:12 - EXTERIOR SINGLE
SURFACE MOUNTED CLOSER
LEVER AND ENTRY LOCKSET
PANIC HARDWARE (REQUIRED WHEN OCC. LOAD >50)
10"H S.S. IMPACT KICKPLATE EACH SIDE
VANDAL RESISTANT HINGES WITH NON-REMOVABLE PIN SET SCREW
AUTOMATIC DOOR BOTTOM / DOOR SWEEP
WEATHER SEALS AT HEAD AND JAMBS
ACCESSIBLE THRESHOLD

HW:13 - OVERHEAD ROLL-UP DOOR
PER MANUF.

DOOR SCHEDULE

DOOR NO.	ROOM NAME	DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR MATERIAL	HARDWARE GROUP	REMARKS
100A	ENTRY	D	6' - 0"	7' - 0"	STR.GL.	01	
101	LOBBY	D	6' - 0"	7' - 0"	STR.GL.	02	
102	CONFERENCE	E	6' - 0"	7' - 10"	STR.GL.	03	
105	KITCHENETTE	B	3' - 0"	7' - 0"	HM.VP.	04	
106	WC (M)	A	3' - 0"	7' - 0"	SC.MTL.	05	
107	MOP 1	A	3' - 0"	7' - 0"	HM	06	
108	WC (W)	A	3' - 0"	7' - 0"	SC.MTL.	05	
109	LOCKERS	A	3' - 0"	7' - 0"	SC.MTL.	04	
111A	DECON B	A	3' - 0"	7' - 0"	HC.MTL.	04	
111B	DECON B	A	3' - 0"	7' - 0"	HC.MTL.	04	
112	MOP 2	A	3' - 0"	7' - 0"	HM	06	
114A	WAREHOUSE A	F	10' - 0"	10' - 0"	MTL	13	
114B	WAREHOUSE A	F	8' - 0"	10' - 0"	MTL	13	
114KK KKKK	PRODUCTION AREA A	A	3' - 0"	7' - 0"	SC.MTL.	11	
115A	PRODUCTION AREA A	A	3' - 0"	7' - 0"	SC.MTL.	12	
115B	PRODUCTION AREA A	A	3' - 0"	7' - 0"	SC.MTL.	12	
115C	PRODUCTION AREA A	F	13' - 0"	10' - 0"	MTL	13	
116	ELEC ROOM	A	3' - 0"	7' - 0"	HM	07	
117A	WORKSHOP A	W	8' - 0"	10' - 0"	HM	13	
117B	WORKSHOP A	F	10' - 0"	10' - 0"	SC.MTL.	13	
118A	LAB A	A	3' - 0"	7' - 0"	HM	04	
118B	WORKSHOP A	A	3' - 0"	7' - 0"	SC.MTL.	11	
119	ELEC ROOM	A	3' - 0"	7' - 0"	HM	07	
120A	GERMINATION CHAMBER A1	F	4' - 0"	7' - 0"	MTL	13	
120B	GERMINATION CHAMBER A1	F	4' - 0"	7' - 0"	MTL	13	
120C	GERMINATION CHAMBER A1	F	4' - 0"	7' - 0"	MTL	13	
120D	GERMINATION CHAMBER A1	F	4' - 0"	7' - 0"	MTL	13	
121A	DECON A	A	3' - 0"	7' - 0"	HC.MTL.	04	
121B	DECON A	A	3' - 0"	7' - 0"	HC.MTL.	04	
121C	PACKHOUSE A1		3' - 0"	7' - 0"			ZONEWORKS SCL
122	PACKHOUSE A2	A	3' - 0"	7' - 0"	SC.MTL.	12	
123	PACKHOUSE A1	F	6' - 0"	10' - 0"	MTL	13	
124A	DISTRIBUTION A	F	10' - 0"	10' - 0"	MTL	13	
124B	DISTRIBUTION A	F	10' - 0"	10' - 0"	MTL	13	
124C	DISTRIBUTION A	F	8' - 0"	10' - 0"	MTL	13	
124D	DISTRIBUTION A	F	8' - 0"	10' - 0"	MTL	13	
124E	DISTRIBUTION A	F	8' - 0"	10' - 0"	MTL	13	
125	GERMINATION CHAMBER A2	A	3' - 0"	7' - 0"	HM	06	
201		A	2' - 10"	3' - 6"			

Grand total: 39

DOOR ABBREVIATIONS

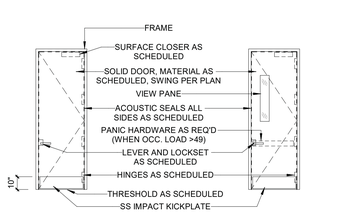
NOT ALL MAY BE USED

ALUM	- ALUMINUM
CLA	- CLEAR ANODIZED ALUMINUM
FF	- FACTORY FINISH
FLD	- FOLDING DOOR
GL	- GLAZING/GLASS
HM	- HOLLOW METAL
HC	- HOLLOW CORE
HR	- HOUR
MIN	- MINUTE
MG	- METAL GRILL
MTL	- METAL
MFR	- MANUFACTURER
PG	- PAINT GRADE
RUD	- ROLL UP DOOR
S	- STAINED
SC	- SOLID CORE
SG	- STAIN GRADE
SS	- STAINLESS STEEL
STL	- STEEL
STR	- STOREFRONT SYSTEM
VP	- VIEW PANE
WD	- WOOD
WW	- WINDOW WALL ELEMENT
-	-INDICATES NO WORK OR NOT APPLICABLE

LEGEND - DOOR TYPE ELEVATIONS

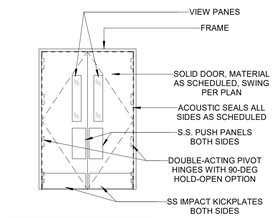
CONSTRUCTION NOTE:

GENERAL CONTRACTOR TO PROVIDE PHOTO DOCUMENTATION AT EACH DOOR:
SELF ADHERED FLAHSING AND FULL BED OF SEALANT AT FLASHING DAMS WHERE REQUIRED PER DETAILS.

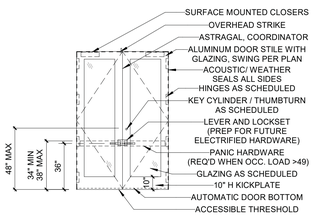


DOOR TYPE A
SINGLE, SOLID

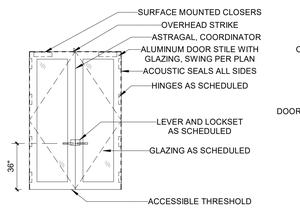
DOOR TYPE B
SINGLE, SOLID WITH VIEW PANE



DOOR TYPE C
DOUBLE, DOUBLE ACTING



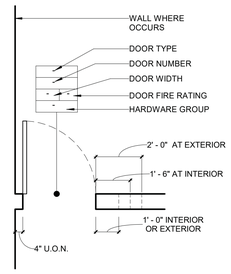
DOOR TYPE D
DOUBLE, STOREFRONT



DOOR TYPE E
DOUBLE, STOREFRONT (CONFERENCE)

TYPE F
OVERHEAD COILING DOOR

DOOR TAG & LAYOUT



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SHEET TITLE:
DOOR PLAN AND SCHEDULE

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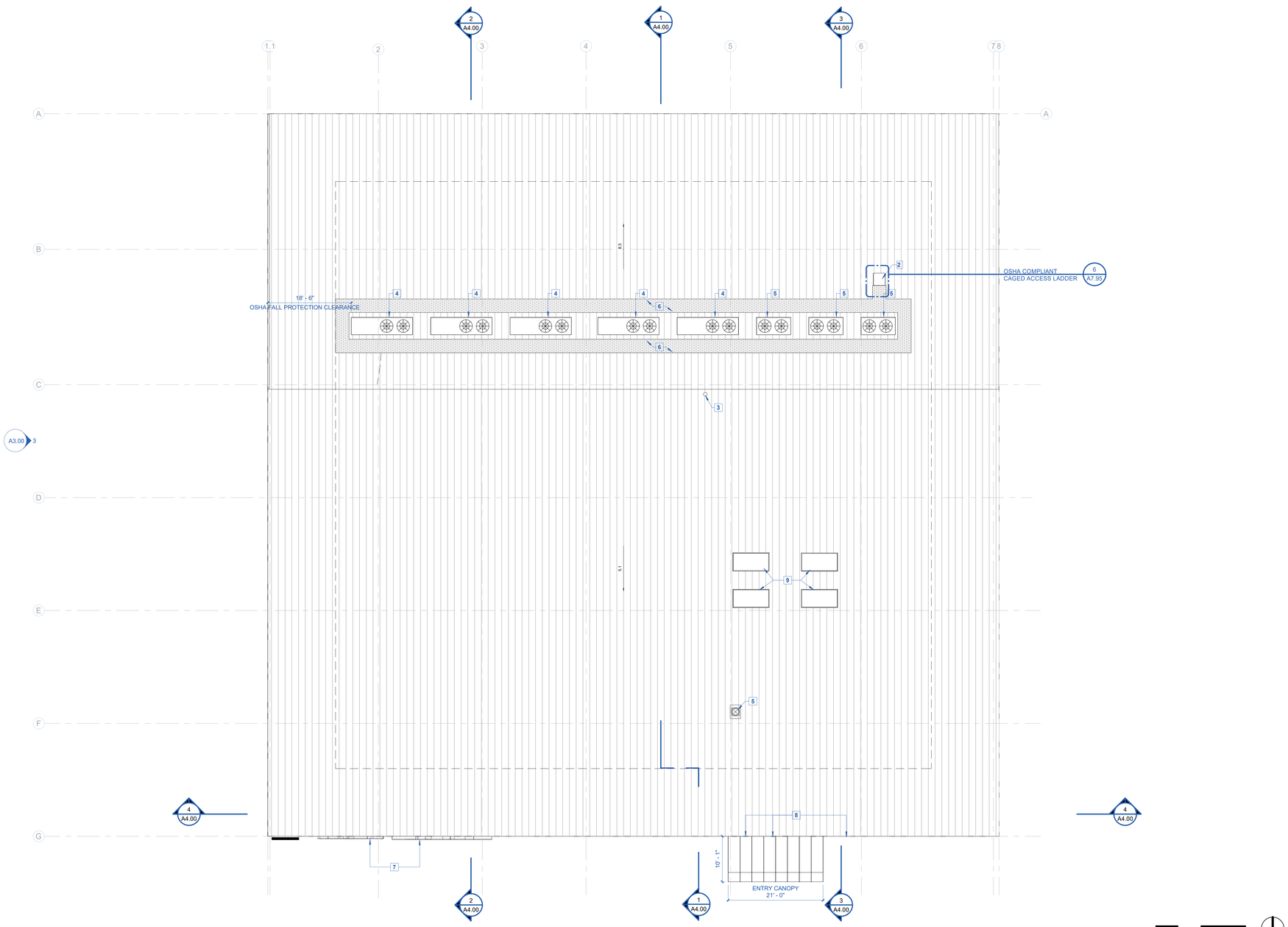

1 ROOF PLAN
A2.02A 1" = 10'-0"

0' 5' 10' 20'

NOTES GENERAL - PLANS

GENERAL

1. WHERE EXTERIOR SHEATHING NOT REQUIRED PER STRUCTURAL PROVIDE SHEATHING FOR FLUSH EXTERIOR FINISH.
2. ROOF SHALL BE CLASS A SINGLE PLY ROOF TYPE.
3. INSTALL ALL DOOR FRAMES PERFECTLY STRAIGHT WITH NO WARP, TWIST OR RACK.
4. IN ORDER TO COMPLY WITH SLIP RESISTANT SURFACE REQ'S CONTAINED IN PART 2 OF TITLE 24 OF THE CBC RELATIVE TO ACCESSIBILITY FOR ALL GROUND AND FLOOR SURFACES (INCLUDING FLOORS, WALKS, RAMPS, STAIRS AND CURB RAMPS). DYNAMIC COEFFICIENT OF FRICTION ALLOWED ON FLAT SURFACES IS =>0.42 BY ASTM STANDARDS FOR SLIP RESISTANCE, 0.80 FOR RAMPS.
5. ALL BUILDING GRIDS ARE TO CENTERLINE OF WALLS OR COLUMN EXECPT EXTERIOR WALLS U.O.N.
6. PROVIDE BLOCKING FOR ALL CASEWORK AND GRAB BARS.
7. LOCATE SINK DRAIN AT BACK OF SINK TO PROVIDE ADEQUATE KNEE CLEARANCE AT ALL ACCESSIBLE SINK LOCATIONS. EXTEND FLOOR FINISH UNDER SINK TO BACK WALL. SEE ACCESSIBILITY STANDARDS.
8. ALL HINGED SIDE OF DOOR FRAMES ADJACENT TO A PERPENDICULAR PARTITION AND/OR AN ANGLED PARTITION ARE TO BE 4" FROM OUTSIDE EDGE OF DOOR FRAME TO FINISH FACE OF THE PARTITION, UNLESS OTHERWISE NOTED.
9. S.S.D. FOR TYPICAL STUD WALL FRAMING.

MINIMUM INSULATION VALUES

1. ALSO SEE SPECIFICATIONS & TITLE 24 ENERGY CALCULATIONS FOR THE REQUIRED MIN. LEVELS OF INSULATION IN THE CONSTRUCTION ASSEMBLIES AND THE MAXIMUM U-FACTOR AND MAXIMUM SHGC - FACTOR ALLOWED FOR THE FENESTRATION. WINDOWS AND GLAZED DOORS MUST HAVE LABELS FOR THE "U" AND 'SHGC' FACTORS THAT ARE REQUIRED BY THE ENERGY DOCUMENTATION.
2. PROVIDE THE MINIMUM INSULATION VALUES BELOW AND/OR THE REQUIREMENTS OF THE CALIFORNIA STATE ENERGY CODE AND THE APPROVED TITLE 24 ENERGY CALCULATIONS FOR EXTERIOR WALLS, FLOORS & ROOFS WHICHEVER IS MORE STRINGENT.
   ROOF = R38, MAX U-FACTOR OF .038, *REFLECTANCE = 0.63, EMITTANCE = 0.75 OR MINIMUM SOLAR REFLECTANCE INDEX OF 75.SHALL BE RATED AND LABELED BY THE COOL ROOF RATING COUNCIL*
   FLOORS = R10, MAX U-FACTOR OF 0.48
   WALLS = R15, MAX U-FACTOR OF 0.059

ARCHITECTURAL/OWERN INSPECTIONS:

1. WALL SETOUT PLAN REVIEW - NOTIFY ARCHITECT AND OWNER FOR FIELD WALK AFTER CHAULK LINES ARE SNAPPED; INCLUDE FINISH WALL THICKNESS.
2. ROUGH ELECTRICAL - J-BOX LAYOUT BEFORE CLOSURE OF WALL FRAMING.
3. LIGHTING LAYOUT - NOTIFY ARCHITECT FOR FIELD WALK AFTER CHAULK LOCATIONS ARE SNAPPED.

USE NON-STAINING CHAULK

KEYNOTES - ROOF

1	NOT USED
2	OSHA COMPLIANT 30"x30" ROOF ACCESS HATCH WITH SAFETY RAILS
3	DRYER EXHAUST, S.M.D.
4	REFRIGERATION EQUIPMENT, SEE REFRIGERATION DRAWINGS
5	MECHANICAL EQUIPMENT. S.M.D.
6	MAINTENANCE PATHWAY, SEE PRE-FAB MANUF. DRAWINGS
7	SIGNAGE, SEE EXTERIOR ELEVATION
8	MECH LOUVERS, SEE EXTERIOR ELEVATION, S.M.D.
9	SKYLIGHT, SEE PRE-FAB MANUF. DRAWINGS. COORDINATE WITH ROOM BELOW

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ROOF PLAN

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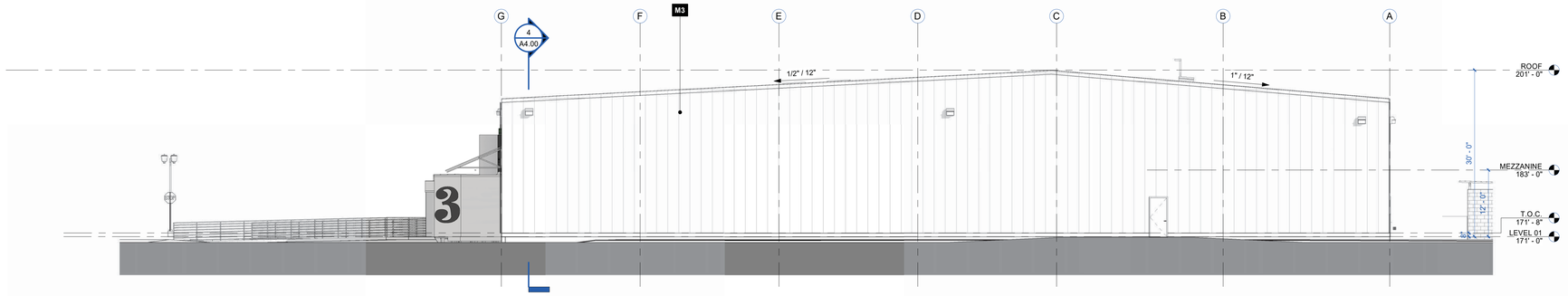
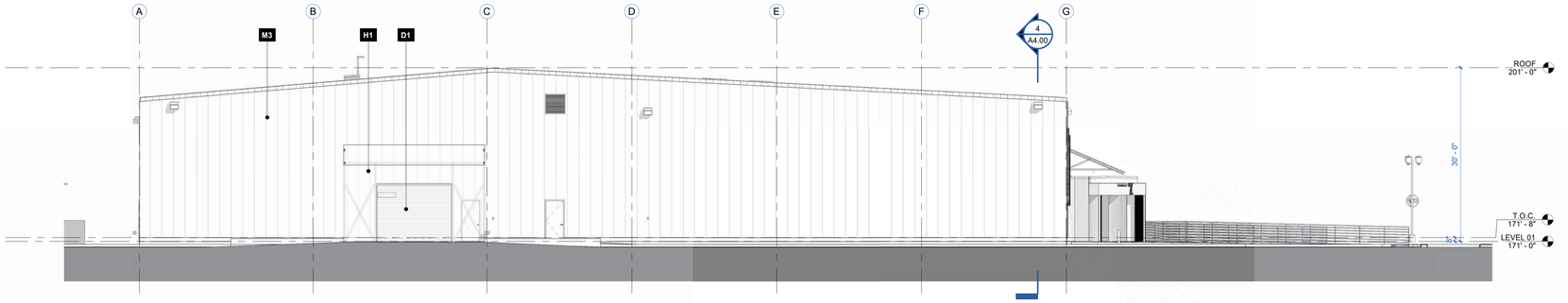
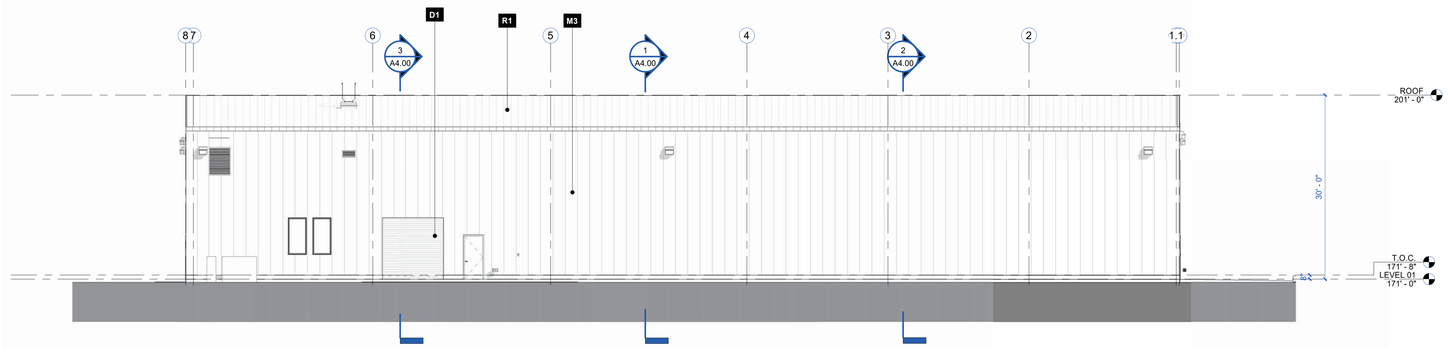


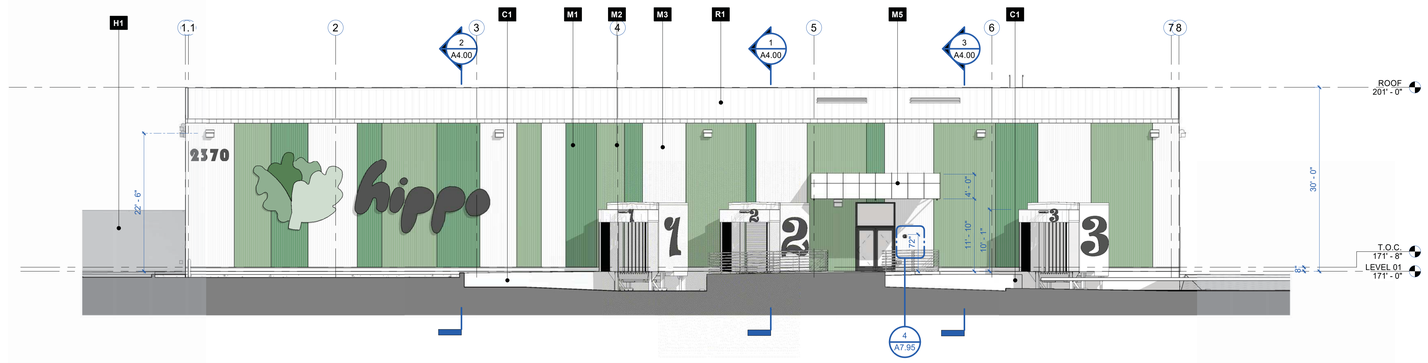
4 A3.00 EXTERIOR ELEVATION - EAST
1" = 10'-0"



3 A3.00 EXTERIOR ELEVATION - WEST
1" = 10'-0"



2 A3.00 EXTERIOR ELEVATION - NORTH
1" = 10'-0"



1 A3.00 EXTERIOR ELEVATION - SOUTH
1" = 10'-0"



R1 ROOF BUTLER MR24	M1 METAL PANEL WALL METL-SPAN CF MESA	M2 METAL PANEL WALL METL-SPAN CF MESA	M3 METAL PANEL WALL METL-SPAN CF MESA	M4 METAL PANEL WALL METL-SPAN CF ARCHITECTURAL	M5 DOCK CANOPY MAPES LUMISHADE	D1 ROLL-UP DOORS	C1 CAST IN PLACE CONCRETE ARCHITECTURAL, SMOOTH	H1 HOOP HOUSES POLYETHYLENE FILM

NOTES GENERAL - ELEVATION

1. SHOP FINISH ALL EXPOSED SURFACES OF METAL COPING CAPS, METAL GRAVEL STOPS, METAL FLASHING, ROOF TO WALL METAL COUNTERFLASHING, METAL BRAKE SHAPES, AND METAL TRIM TO MATCH ADJACENT EXTERIOR WALL FINISH, U.O.N.
2. ALL GUARDRAILS, STAIR/RAMP HANDRAILS, BRACKETS, AND FITTINGS SHALL BE GALVANIZED AND PAINTED WITH HIGH PERFORAMNCE COATING SUCH AS AN EXPOXY COATING SYSTEM THROUGHOUT.
3. ALL GLAZING SHALL BE SAFETY GLAZING.

ARCHITECTURAL INSPECTIONS:

1. WATERPROOFING - NOTIFY ARCHITECT UPON INSTALLATION OF FIRST SYSTEM LAYER OF WATERPROOFING PRIOR TO SUBSEQUENT LAYERS OR COVERING OF WORK.
2. WINDOWS & DOORS - NOTIFY ARCHITECT UPON INSTALLTION OF FIRST WINDOW AND FIRST DOOR; COORDINATE FIELD VERIFICATION OF INSTALLTION FOR WATER MITIGATION WITH ARCHITECT, GENERAL CONTRACTOR, AND SUB-CONTRACTOR PRESENT.
3. CONTROL JOINT LAYOUT - COORDINATE WITH ARCHITECT CONTROL JOINT ASSEMBLY AND LAYOUT LOCATION PRIOR TO INSTALLATION.

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REF. PLAN CHECK # XXXXX

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SIGNATURE DATE:	
ISSUE DATE:	JUNE 27, 2025
PROJ #:	25.003
TIME STAMP:	6/29/2025 2:51:17 PM
FILE:	Autodesk Docs://Hippo Harvest Hollister/R23_HIPPO HARVEST HOLLISTER - ARCH v2.rvt

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SHEET TITLE :

EXTERIOR ELEVATIONS

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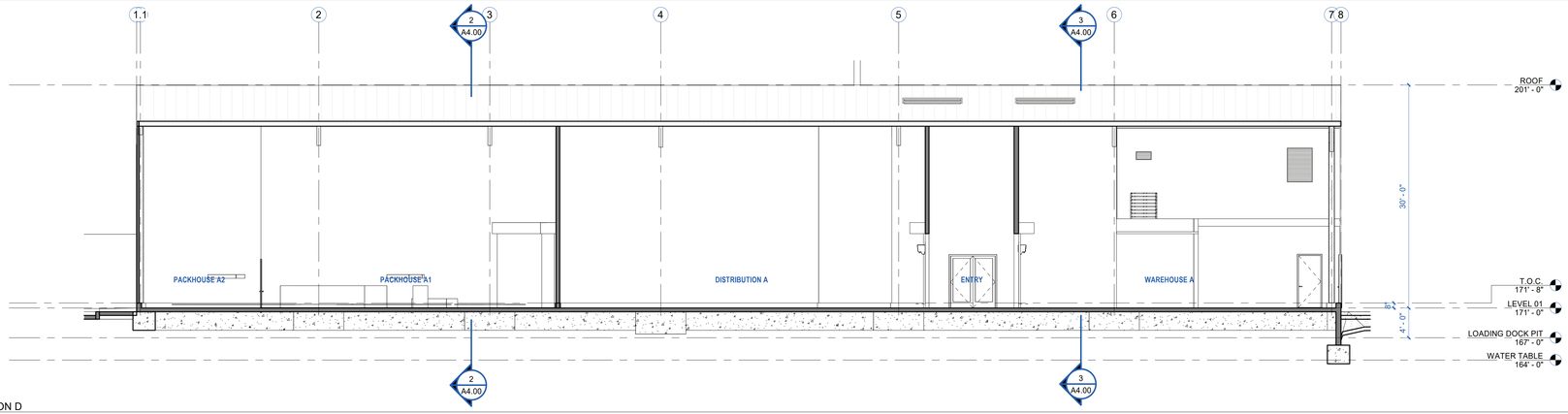
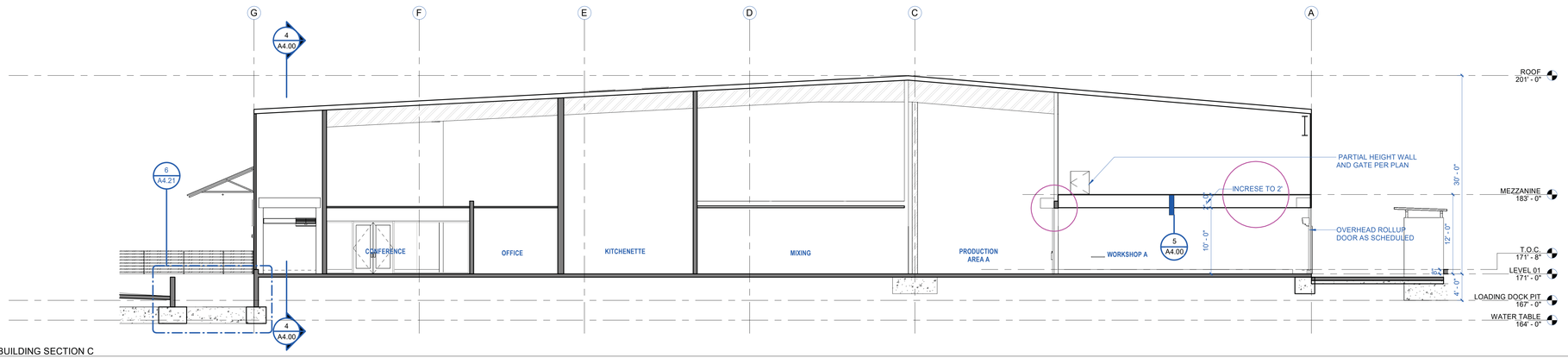
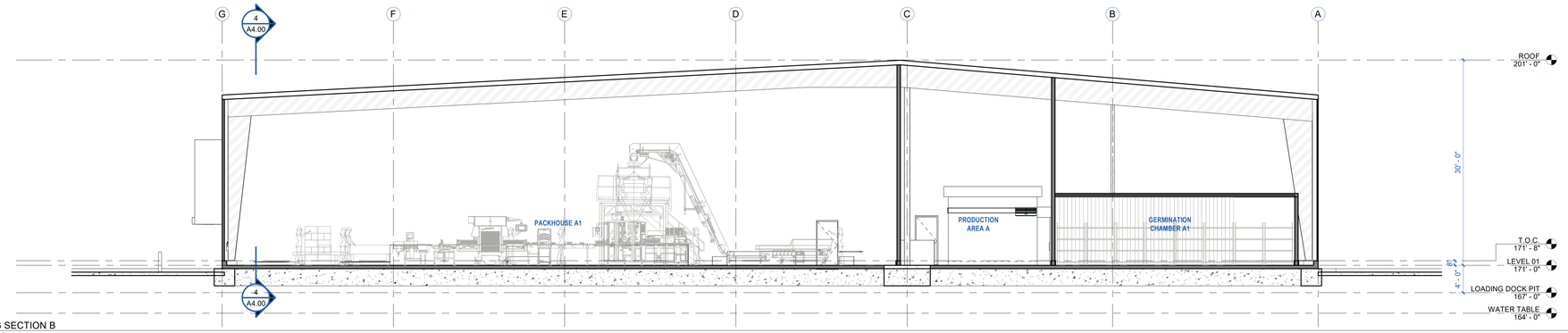
BID SET #1 - ADDENDUM 2



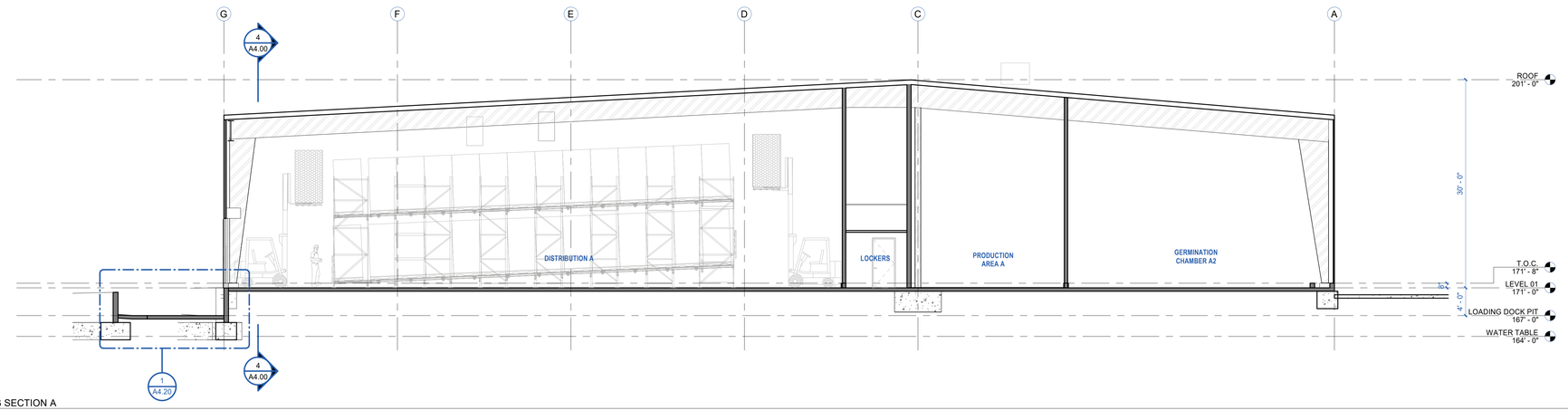
4 A4.00 BUILDING SECTION D
1/8" = 1'-0"



3 A4.00 BUILDING SECTION C
1/8" = 1'-0"



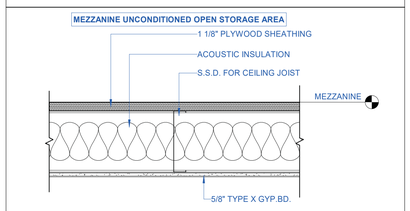
2 A4.00 BUILDING SECTION B
1/8" = 1'-0"



1 A4.00 BUILDING SECTION A
1/8" = 1'-0"

NOTES GENERAL - SECTIONS & INTERIOR FINISH

1. SEE SPECIFICATIONS ON SHEET A0.90 FOR ALL FINISHES
2. SEE INTERIOR ELEVATIONS & RCP FOR MATERIAL LAYOUT
3. GROUND AND FLOOR SURFACES ALONG ACCESSIBLE ROUTES AND IN ACCESSIBLE ROOMS AND SPACES, INCLUDING FLOORS, WALKS, RAMPS, CURB RAMPS AND STAIRS SHALL BE STABLE, FIRM AND SLIP-RESISTANT.
4. ALL MECHANICAL DUCTS, CONDUITS AND ALL SUPPORT MEMBERS ABOVE CEILING SHALL BE PAINTED TO MATCH SURROUNDING.
5. ALL GYP CEILING AND SOFFIT TO BE PAINTED TO MATCH ADJACENT WALL AND/OR CEILING.
6. ALL EXPOSED PERIMETER WALLS TO BE FINISHED AND PAINTED UP TO UNDER SIDE OF ROOF.
7. PROVIDE BLOCKING AT ALL CASEWORK, GRAB BARS, AND ACCESSORIES.
8. COORDINATE ALL MECHANICAL EQUIPMENT & DUCT LOCATIONS, AND LOCATIONS OF DUCT PENETRATIONS THROUGH WALLS WITH MECHANICAL CONSULTANT DRAWINGS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES OR CHANGES FROM THESE DRAWINGS PRIOR TO INSTALLATION.



5 A4.00 CF 1 - INTERIOR CEILING/FLOOR ASSEMBLY AT MEZZANINE
1 1/2" = 1'-0"

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SHEET TITLE :
BUILDING SECTIONS

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A4.00

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BID SET #1 - ADDENDUM 2

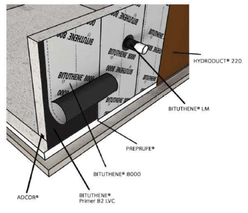
Product Data Sheets

BITUTHENE® 8000 Data Sheet

Advanced, self-adhesive membrane with unique HDPE composite film that provides superior physical properties for water, vapor and gas proof application in sub-structures.

Product Description

GCP BITUTHENE® 8000 membrane combines the proven BITUTHENE® adhesive technology with a unique composite, grey-colored carrier film to provide superior performance, easier installation and protection from methane gas.

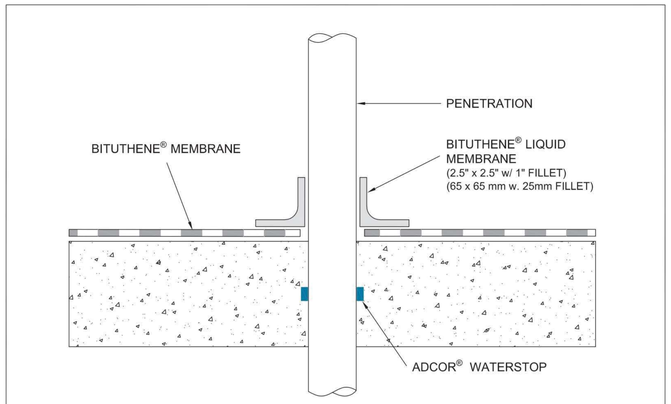


Drawings are for illustration purposes only.
Please refer to gcpat.comfor specific application details.

Advantages

- Water and vapor proof – protects basements from ground water and gasses
- Gas resistance – BITUTHENE® 8000 membrane will restrict the ingress of Methane, Radon, Benzene, Toluene, Gasoline & other VOCs Trichloroethylene & Tetrachloroethylene (TCE/PCE) into buildings from landfill and naturally occurring sources, satisfying the performance criteria for a gas-resistant membrane
- Chemically resistant - provides effective external protection against most aggressive soils, contaminated ground water and hydrocarbons in suspension
- Superior performance – 230 ft (70 m) hydrostatic pressure resistance with ultra-low moisture transmission rate
- Durability –
  - Unique composite film - engineered for strength, flexibility, gas barrier and a smooth finish
  - This unique composite HDPE film makes BITUTHENE® 8000 extremely tough & durable.

2 A4.20 BITUTHENE 8000 DETAIL
12" = 1'-0"



NOTES - HYDRODUCT® OR APPROVED PROTECTION COURSE NOT SHOWN FOR CLARITY
- GCP MAY REQUIRE AN ALTERNATE GCP WATERSTOP BASED ON DESIGN CONDITIONS

gcp applied technologies	PENETRATION **BITUTHENE® WATERPROOFING SYSTEM**	DRAWING: BIT-016 SCALE: Not to scale EFFECTIVE DATE: 07/01/2016 SUPERCEDES: 04012015

3 A4.20 BITUTHENE 8000 PENETRATION DETAIL
12" = 1'-0"

INSTALLATION INSTRUCTIONS

Penetration

Prior to Membrane Installation, Review the Bituthene® Data Sheet

gcp applied technologies

Surface Prep
All surfaces must be structurally sound and free from spalled areas, loose aggregate, sharp protrusions or other matter that may hinder the adhesion or regularity of the membrane installation. The surface should also be free from frost, dirt, grease, oil or other contaminants as outlined in the Bituthene® Data Sheet section on Surface Preparation. Clean loose dust and dirt from the surface and prime with appropriate primer.

Detailing
1. Ensure the surface of the penetration is clean and grouted solid to prevent movement.
2. Apply Bituthene membrane onto substrate in accordance with the Bituthene Data Sheet section on Installation.
3. Cut membrane to allow for penetration. Membrane should be within 0.5 in (15 mm) in of penetration after cutting.
4. Apply 90-mil (2.3 mm) thick Bituthene Liquid membrane 2.5 in (65 mm) onto penetration and onto membrane.
5. Apply Hydroduct 220 for vertical applications or Hydroduct 660 for horizontal applications according to each according to Hydroduct Data Sheet.

Special Notes
Bituthene membranes should not be used in areas where they will be permanently exposed to sunlight, weather or traffic. Protect membrane from sunlight as quickly as possible after installation.

Ensure Adcor® waterstop is encapsulated with 3 in (75 mm) of concrete cover minimum. Apply Adcor® waterstop according to the installation instructions found on the data sheet.

GCP may require an alternative GCP waterstop based on design conditions, at GCP's discretion.

BIT-016Inst.doc

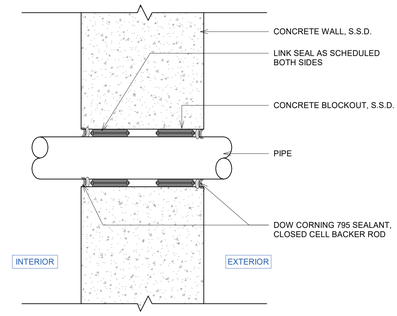
WATERPROOFING LEGEND

- WATER REP. SEALER FOR CONCRETE AND OR BLOCK
- FULL BED OF SEALANT
- VAPOR BARRIER (FLOREPRUFE BY GCP)
- WATERPROOFING (PREPRUFE BY GCP)
- TERMINATION TAPE (PREPRUFE TAPE BY GCP)
- MANUF. RECOMENDED CANT/FILLET COVE. MIN 3/8" RADII

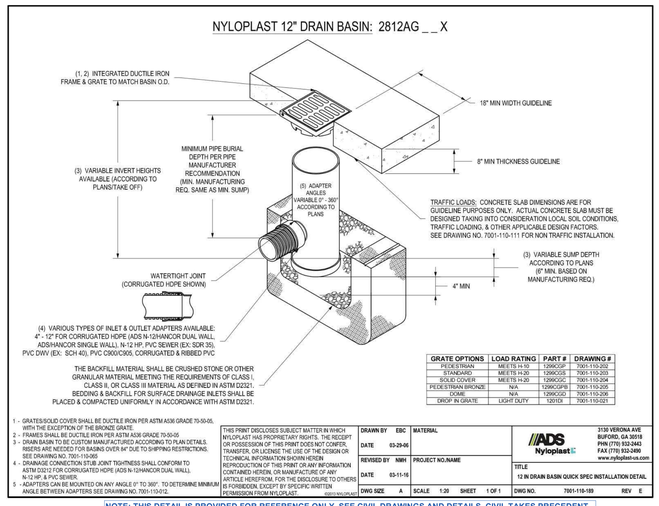
WATERPROOFING SYSTEM AT FOUNDATION WALLS
- BITUTHENE 8000 BY GCP
- BITUTHENE PRIMER B2 LVC BY GCP
- HYDRODUCT 220 DRAIN MAT BYU GCP
- DRAINMAT COLLECTOR HYDRODUCT COIL 600 BY GCP

WATERPROOFING SYSTEM AT PLANTER
- SILCORE PRIMER
- SILCORE MEMBRANE BY GCP

NOTE:
*** SEQUENCING BETWEEN VAPOR BARRIER AND WATERPROOFING SYSTEM LAYERS ARE CRITICAL. REFER TO MANUF. RECOMMENDATIONS**



5 A4.20 PIPE PENETRATION DETAIL - ABOVE GRADE TYPICAL PLAN/SECTION - CORE DRILLED
3" = 1'-0"



GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
PEDESTRIAN	MEETS H-10	1296CGP	7001-110-202
STANDARD	MEETS H-20	1296CGS	7001-110-203
SOLID COVER	MEETS H-20	1296CGC	7001-110-204
PEDESTRIAN BRONZE	N/A	1296CGPB	7001-110-205
DOME	N/A	1296CGD	7001-110-206
DROP IN GRATE	LIGHT DUTY	12010X	7001-110-021

1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05, WITH THE EXCEPTION OF THE BRONZE GRATE.
2 - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-005
4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER.
5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE (0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.

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DRAWN BY	EBC	MATERIAL	
DATE	03-29-06		
REVISED BY	NMH	PROJECT NO./NAME	
DATE	03-11-16		
DWG SIZE	A	SCALE 1:20	SHEET 1 OF 1

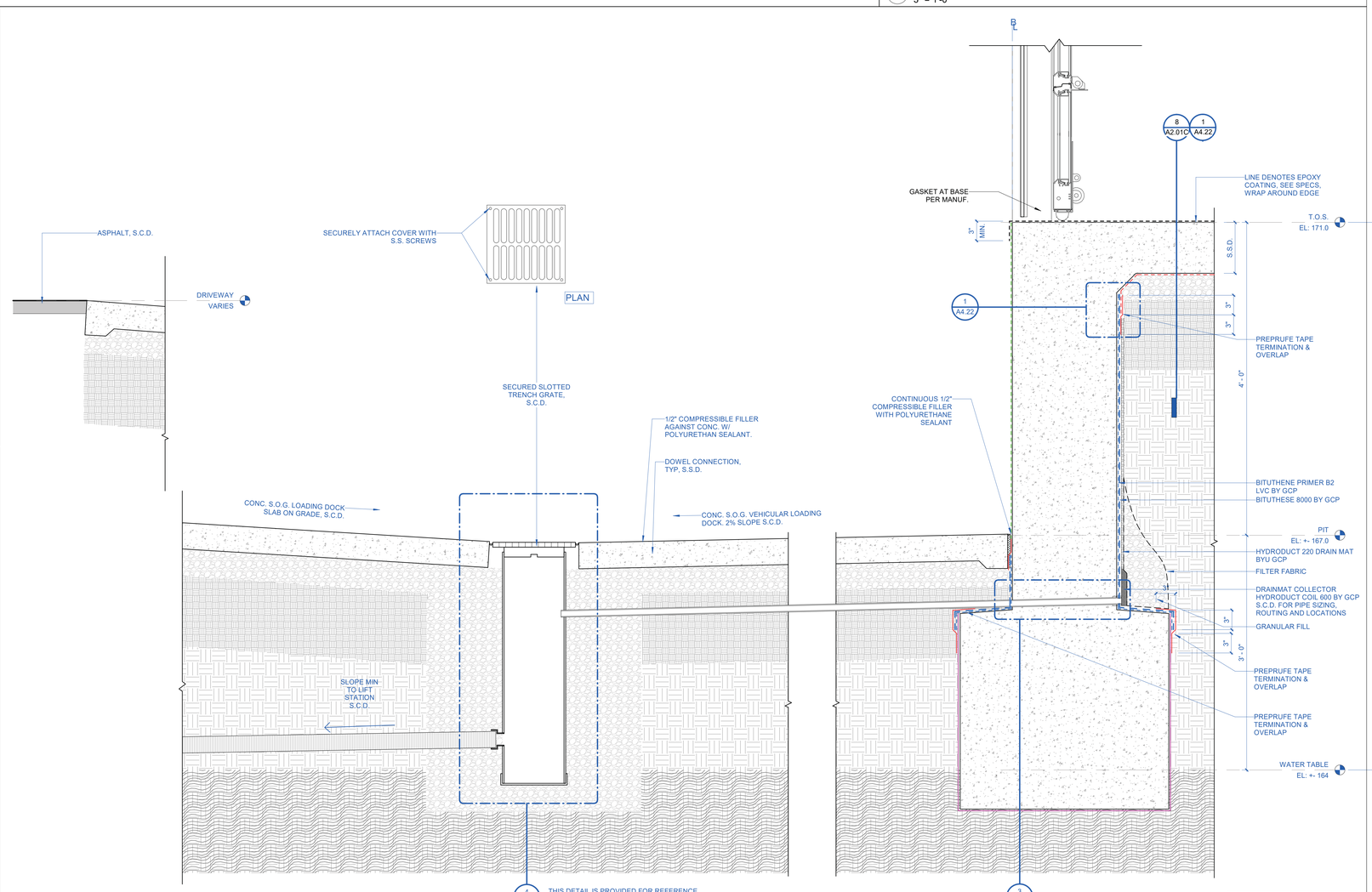
ADS Nyloplast
3130 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2490
www.nyloplast-us.com

TITLE
12 IN DRAIN BASIN QUICK SPEC INSTALLATION DETAIL

DWG NO. 7001-110-189 REV E

NOTE: THIS DETAIL IS PROVIDED FOR REFERENCE ONLY. SEE CIVIL DRAWINGS AND DETAILS. CIVIL TAKES PRECEDENT.

4 A4.20 DRAIN BASIN DETAIL
12" = 1'-0"



4 A4.20 THIS DETAIL IS PROVIDED FOR REFERENCE ONLY. SEE CIVIL DRAWINGS AND DETAILS. CIVIL TAKES PRECEDENT.

3 A4.20 PENETRATION DETAIL

1 A4.20 ENLARGED SECTION DETAIL - LOADING DOCK PIT
1 1/2" = 1'-0"

NOTES
S.S.D. #XX/SX.XX
C.S.D. #XX/CX.XX

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ELEC: CENTRAL PACIFIC ENGINEERING., INC., P.O. BOX. 1727, Capitola CA 95010, www.cpeinc.com, T: 831.476.1525, Contact: David Smith, E-Mail: David@CPEInc.com
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HOLLISTER, CA 95023
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ISSUE DATE:	JUNE 27, 2025
PROJ #:	25.003
TIME STAMP:	6/29/2025 2:51:21 PM
FILE:	Autodesk Docs://Hippo Harvest Hollister/R23_HIPPO HARVEST HOLLISTER - ARCH v2.rvt

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REVISIONS

#	DATE	ISSUE
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SHEET TITLE :
ENLARGED SECTION DETAILS

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SHEET NO:
A4.20

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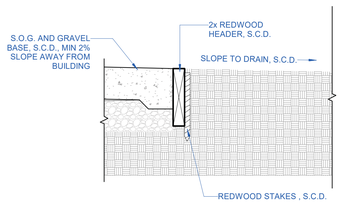
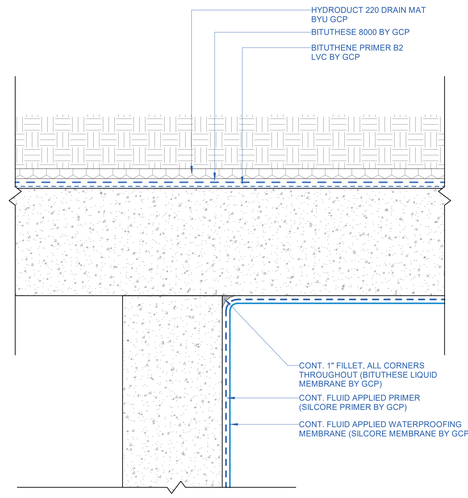
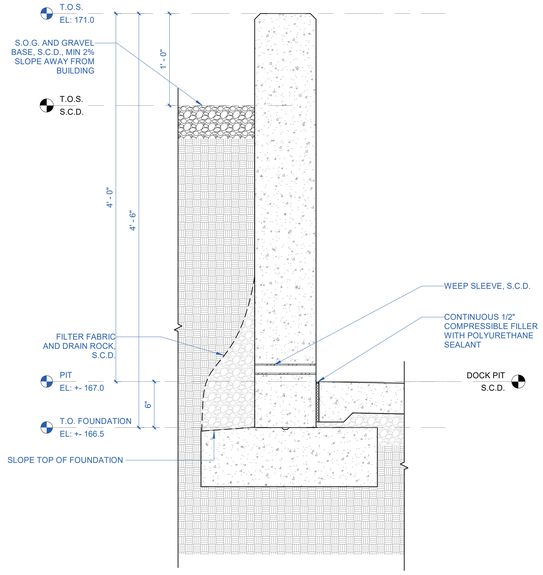


7 A4.21 SECTION DETAIL - SLAB ON GRADE EDGE
1 1/2" = 1'-0"



5 A4.21 ENLARGED PLAN DETAIL - CORNERS
6" = 1'-0"



4 A4.21 SECTION A
1 1/2" = 1'-0"

WATERPROOFING LEGEND

- WATER REP. SEALER FOR CONCRETE AND OR BLOCK
- FULL BED OF SEALANT
- VAPOR BARRIER (FLOREPRUFE BY GCP)
- WATERPROOFING (PREPRUFE BY GCP)
- TERMINATION TAPE (PREPRUFE TAPE BY GCP)
- MANUF. RECOMENDED CANT/FILLET COVE. MIN 3/8" RADII

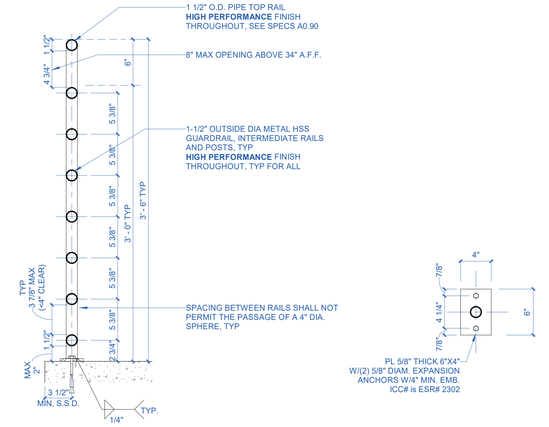
WATERPROOFING SYSTEM AT FOUNDATION WALLS

- BITUTHENE 8000 BY GCP
- BITUTHENE PRIMER B2 LVC BY GCP
- HYDRODUCT 220 DRAIN MAT BYU GCP
- DRAINMAT COLLECTOR HYDRODUCT COIL 600 BY GCP

WATERPROOFING SYSTEM AT PLANTER

- SILCORE PRIMER
- SILCORE MEMBRANE BY GCP

NOTE:
*** SEQUENCING BETWEEN VAPOR BARRIER AND WATERPROOFING SYSTEM LAYERS ARE CRITICAL. REFER TO MANUF. RECOMMENDATIONS**



NOTES:
1. ALL METAL SURFACES SHALL RECEIVE A HIGH PEFORMANCE COATNG

2 A4.21 EXTERIOR DETAIL - GUARDRAIL & HANDRAIL
1 1/2" = 1'-0"

PENETRATION DETAIL

NOTES
S.S.D. #XX/SX.XX
C.S.D. #XX/CX.XX

6 A4.21 SECTION DETAIL - STEM WALL - SOUTH
1 1/2" = 1'-0"

3 A4.21 SECTION DETAIL - RETAINING WALLS AT LOADING DOCK
1 1/2" = 1'-0"

1 A4.21 ENLARGED SECTION DETAIL - SLOPED WALK WITH HANDRAIL
1 1/2" = 1'-0"

HIPPO HARVEST
HOLLISTER, CA
2370 SHORE ROAD
HOLLISTER, CA 95023
REF. PLAN CHECK # XXXXX

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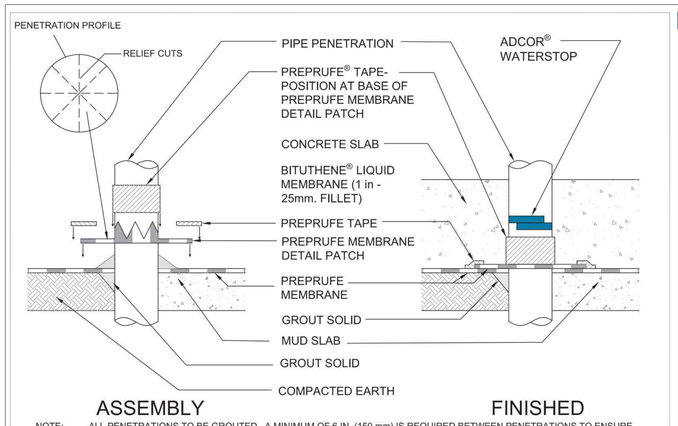


NOTE: ALL PENETRATIONS TO BE GROUTED. A MINIMUM OF 6 IN. (150 mm) IS REQUIRED BETWEEN PENETRATIONS TO ENSURE PROPER DETAILING. AVOID PLACEMENT OF MULTIPLE PENETRATIONS.

PIPE PENETRATION FOR WALL OR SLAB
PREPRUFE® WATERPROOFING SYSTEM

DRAWING: PRE-034
SCALE: Not to scale
EFFECTIVE DATE: 07/01/2016
SUPERCEDES: 06012010

INSTALLATION INSTRUCTIONS

Pipe Penetration

Prior to Membrane Installation, Review the Preprufe® Data Sheet

Surface Prep
All surfaces must be sound and solid to eliminate movement during the concrete pour. Substrate must be regular and smooth with no gaps or voids greater than 0.5 in (15 mm). The surface should also be free from loose aggregate and sharp protrusions as outlined in the Preprufe® Data Sheet section on Surface Preparation.

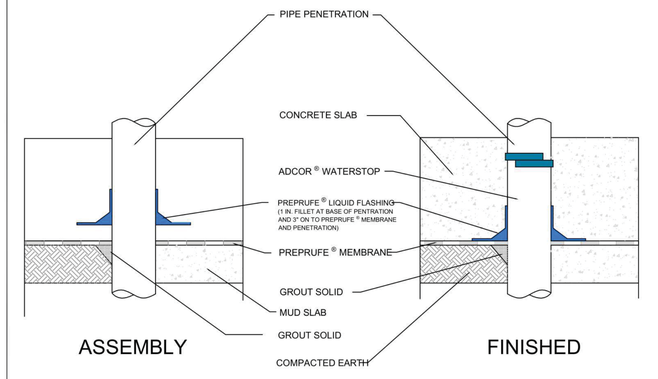
Detailing
1. All penetrations must be firmly secured and stable. Grout around all penetrations that are not stable. For compacted earth, extend grout a minimum of 3 in (75 mm) in all directions. Clean loose dust or dirt from the penetration surface using a clean, dry cloth or brush.
2. Cut the field membrane tight to the penetration and remove release liner. If membrane is not within 0.5 in (15 mm) of penetration and not more than 2 in (50 mm) from penetration, apply Preprufe Tape to cover the gap. Roll firmly into place and remove release liner. If the membrane is greater than 2 in (50 mm) from penetration, install more Preprufe Membrane to cover the gap repeating these instructions until Preprufe Membrane/ Tape is within 0.5 in (15 mm).
3. Mix and apply Bituthene Liquid Membrane around the penetration. Liquid Membrane should be placed to form a minimum 1 in (25 mm) continuous fillet between the Preprufe Membrane/ Tape and the base of the penetration. Cut “star” within trace of penetration to allow for patch to slide over penetration.
4. Cut a patch of Preprufe Membrane that is a minimum of 12 in (300 mm) larger than the diameter or width of the penetration so that the patch extends 6 in (150 mm) beyond the penetration in all directions. Remove the release liner and center the patch over penetration and trace/draw the penetration profile onto the patch. Using sheers or utility knife, make relief cuts through the membrane. Refer to relief cut profile on associated detail. Triangles formed by making a relief cut are not to exceed 2 in (50 mm) in height when placed over penetration, i.e. penetration diameters or widths greater than 4 in (100 mm) triangles will need to be trimmed. Remove and discard release liner.
5. Slide the patch over penetration and press into the partially cured Liquid Membrane. Ensure that the patch is pressed firmly into the Liquid Membrane and is positioned directly onto the Preprufe Field Membrane/ Tape below. Using a trowel, smooth out any Liquid Membrane that has flowed out of the relief cut.
6. Apply Preprufe Tape centered over the edges of the patch and roll firmly to form a tight seal to the Preprufe Field Membrane. Remove release liner from tape and discard.
7. Wrap the penetration with Preprufe Tape, positioning the tape at the base of the patch. Remove enough release liner to overlap Attach Tape onto itself and roll/press firmly into place. Remove remaining release liner and discard. Repair small fishmouths by pressing firmly against penetration and repair large fishmouths by patching with Preprufe Tape.

(Continued on next page)

Special Notes
Preprufe membranes should not be used in areas where they will be permanently exposed to sunlight, weather or traffic. Protect membrane from sunlight as quickly as possible after installation.

Ensure Adcor® waterstop is encapsulated with a minimum 3 in (75 mm) of concrete cover. Apply Adcor® waterstop according to the installation instructions found on the data sheet.

GCP may require an alternative GCP waterstop based on design conditions, at GCP's discretion.



NOTES: ALL PENETRATIONS TO BE GROUTED SOLID IN PLACE.
A MINIMUM OF 6 IN. (150 mm) IS REQUIRED BETWEEN PENETRATIONS TO ENSURE PROPER DETAILING.
AVOID PLACEMENT OF MULTIPLE PENETRATIONS.

PREPRUFE ® LIQUID FLASHING
PIPE PENETRATION FOR WALL OR SLAB

DRAWING: PRE-034 PLF
SCALE: Not to scale
EFFECTIVE DATE: 10/06/2023
SUPERCEDES: N/A

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2 A4.22 PIPE PENETRATION DETAIL
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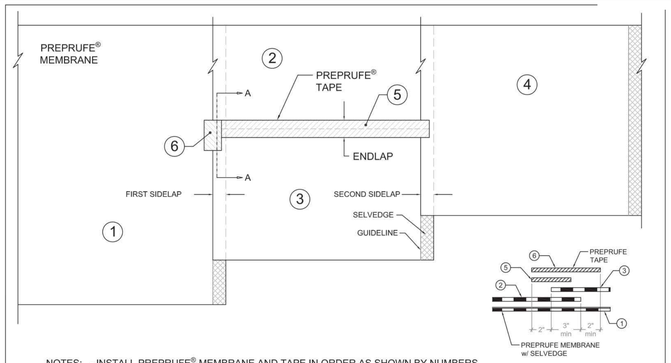
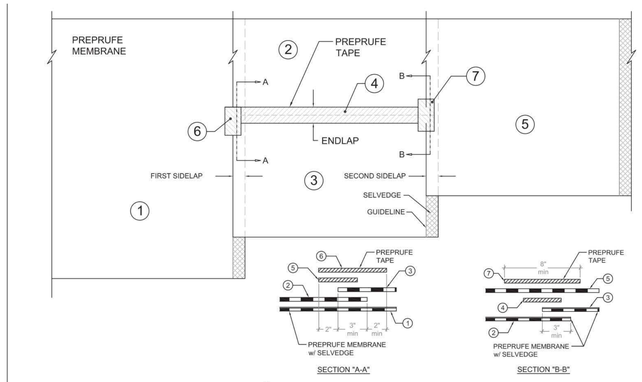


NOTES: - INSTALL PREPRUFE® MEMBRANE AND TAPE IN ORDER AS SHOWN BY NUMBERS
- DETAIL ALSO APPLICABLE FOR PREPRUFE PLUS

END LAP DETAIL FOR WALL OR SLAB - OPTION 1
TAPE APPLIED AFTER INSTALLATION OF SIDE LAPS
PREPRUFE® WATERPROOFING SYSTEM

DRAWING: PRE 031
SCALE: Not to scale
EFFECTIVE DATE: 07/01/2016
SUPERCEDES: 04012015

PRE-034Inst.doc

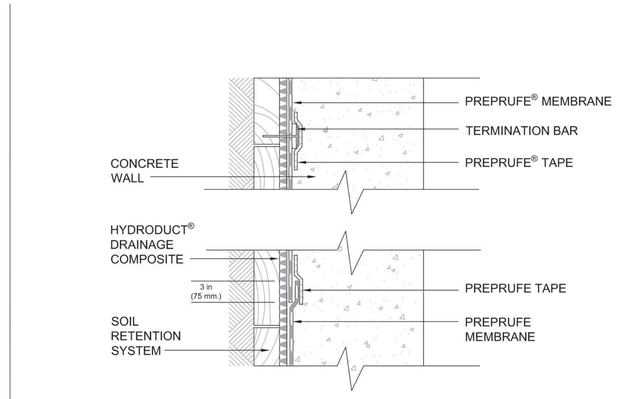


NOTES: - INSTALL PREPRUFE® MEMBRANE AND TAPE IN ORDER AS SHOWN BY NUMBERS
- DETAIL ALSO APPLICABLE FOR PREPRUFE PLUS

END LAP DETAIL FOR WALL OR SLAB - OPTION 2
TAPE APPLIED BEFORE INSTALLATION OF 2ND SIDE LAP
PREPRUFE® WATERPROOFING SYSTEM

DRAWING: PRE 032
SCALE: Not to scale
EFFECTIVE DATE: 07/01/2016
SUPERCEDES: 03012015

PRE-034Inst.doc



TOP TERMINATION AND END LAP
PREPRUFE® WATERPROOFING SYSTEM

DRAWING: PRE 048
SCALE: Not to scale
EFFECTIVE DATE: 07/01/2016
SUPERCEDES: 04012015

PRE-034Inst.doc

INSTALLATION INSTRUCTIONS

End Lap Detail for Wall or Slab Option-1

Tape applied after installation of the side laps
Prior to Membrane Installation, Review the Preprufe® Data Sheet

Surface Prep
All surfaces must be sound and solid to eliminate movement during the concrete pour. Substrate must be regular and smooth with no gaps or voids greater than ½ inch. The surface should also be free from loose aggregate and sharp protrusions as outlined in the Preprufe® Data Sheet section on Surface Preparation.

Detailing
1. Apply Hydroduct® according to Hydroduct Data Sheet.
2. Install Preprufe Membrane and tape in order as shown by numbers.
3. Overlap the ends of the membrane a minimum of 3 in (75 mm) and remove release liner from both membranes.
4. Apply Preprufe Tape over the end lap as shown and roll firmly.
5. Apply tape a minimum of 2 in (50 mm) beyond all edges of membrane that are not sealed by the selvedge.
6. Remove release liner from tape and discard.

Special Notes
Preprufe membranes should not be used in areas where they will be permanently exposed to sunlight, weather or traffic. Protect membrane from sunlight as quickly as possible after installation.

PRE-031Inst.doc

INSTALLATION INSTRUCTIONS

End Lap Detail for Wall or Slab Option-2

Tape applied after installation of the side laps
Prior to Membrane Installation, Review the Preprufe® Data Sheet

Surface Prep
All surfaces must be sound and solid to eliminate movement during the concrete pour. Substrate must be regular and smooth with no gaps or voids greater than 0.5 in, 15 mm. The surface should also be free from loose aggregate and sharp protrusions as outlined in the Preprufe® Data Sheet section on Surface Preparation.

Detailing
1. Apply Hydroduct® according to Hydroduct Data Sheet.
2. Install Preprufe Membrane and Preprufe Tape in order as shown by numbers
3. Overlap the ends of the membrane a minimum of 3 in (75 mm) and remove release liner from both membranes.
4. Apply Preprufe Tape over the end lap as shown and roll firmly.
5. Apply tape a minimum of 2 in (50 mm) beyond all edges of membrane that are not sealed by the selvedge.
6. Remove release liner from tape and discard.

Special Notes
Preprufe membranes should not be used in areas where they will be permanently exposed to sunlight, weather or traffic. Protect membrane from sunlight as quickly as possible after installation.

PRE-032Inst.doc

INSTALLATION INSTRUCTIONS

Top Termination and End Lap

Prior to Membrane Installation, Review the Preprufe® Data Sheet

Surface Prep
All surfaces must be sound and solid to eliminate movement during the concrete pour. Substrate must be regular and smooth with no gaps or voids greater than 0.5 in (15 mm). The surface should also be free from loose aggregate and sharp protrusions as outlined in the Preprufe® Data Sheet section on Surface Preparation.

Detailing
1. Apply Preprufe field membrane according to standard installation procedures.
2. Apply termination bar to Preprufe membrane.
3. Center Preprufe CJ Tape to cover termination bar and roll firmly.
4. Protect top of termination of membrane from exposure.
5. For end lap, overlap successive membrane rolls by 3 in (75 mm).
6. Apply Preprufe Tape, centered over the lap. (Refer to PRE 031 and PRE 032)
7. Apply Hydroduct® according to Hydroduct Data Sheet.

Special Notes
Preprufe membranes should not be used in areas where they will be permanently exposed to sunlight, weather or traffic. Protect membrane from sunlight as quickly as possible after installation.

PRE-048Inst.doc

1 A4.22 PREPRUF OVERLAP DETAIL
1 1/2" = 1'-0"

BID SET #1 - ADDENDUM 2

Product Data Sheets

FLORPRUFE® 120 Data Sheet

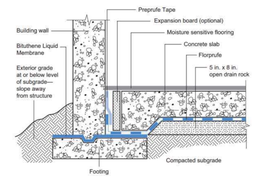
Integrally bonded vapor protection for slabs on grade

Product Description

FLORPRUFE® 120 is a high performance vapor barrier with GCP's Advanced Bond Technology™ that forms a unique seal to the underside of concrete floor slabs. Comprising a highly durable polyolefin sheet and a specially developed, non-tacky adhesive coating, FLORPRUFE® 120 seals to liquid concrete to provide integrally bonded vapor protection. FLORPRUFE® exceeds ASTM E1745 Class A rating.

Product Advantages

- Forms a powerful integral seal to the underside of concrete slabs
- Protects valuable floor finishes such as wood, tiles, carpet and resilient flooring from damage by vapor transmission
- Direct contact with the slab complies with the latest industry recommendations
- Remains sealed to the slab even in cases of ground settlement
- Ultra low vapor permeability
- Durable, chemical resistant polyolefin sheet
- Lightweight, easy to apply, kick out rolls
- Simple lap forming with mechanical fixings or tape



Use

FLORPRUFE® 120 is engineered for use below slabs on grade with moisture-impermeable or moisture-sensitive floor finishes that require the highest level of vapor protection.

FLORPRUFE® complies with the latest recommendations of ACI Committees 302 and 360, i.e. for slabs with vapor sensitive coverings, the location of the vapor barrier should always be in direct contact with the slab1.

1 / A4.23 FLOREPRUFE SYSTEM BY GCP
12" = 1'-0"

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www.cpeinc.com — Contact: David Smith
T: 831.476.1525 — E-Mail: David@CPEInc.com

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Santa Cruz, CA 95060
www.seedscca.com — Contact: Scott Shelton
T: 831.291.2417 — E-Mail: scottshelton@seedscca.com

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Gilroy, CA 95020
www.karenaitkenassociates.com — Contact: Pam Jones
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https://hawkinsengineering.net — Contact: Arthur J. Werner
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T: 831-901-4059 — E-Mail: Royce@steelsi.com

HIPPO HARVEST
HOLLISTER, CA
2370 SHORE ROAD
HOLLISTER, CA 95023
REF. PLAN CHECK # XXXXX

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LICENSE NUMBER:
SIGNATURE DATE:

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ENLARGED SECTION DETAILS

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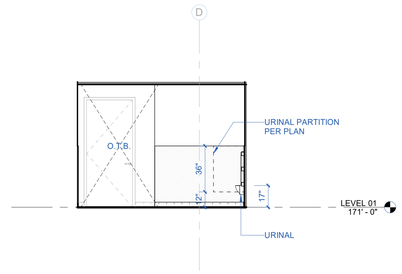
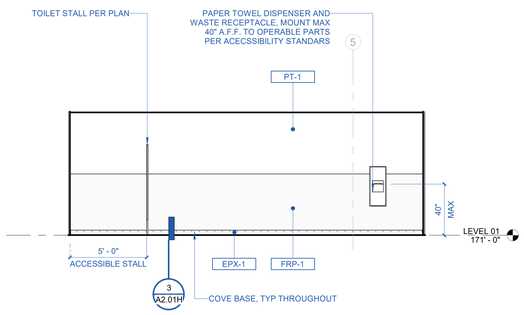
BID SET #1 - ADDENDUM 2

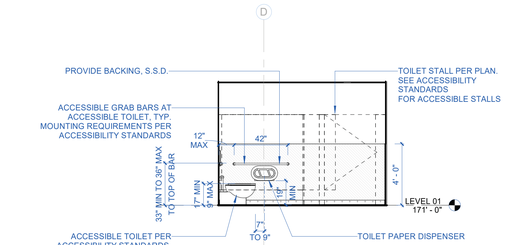
TYPICAL MEN'S RESTROOM



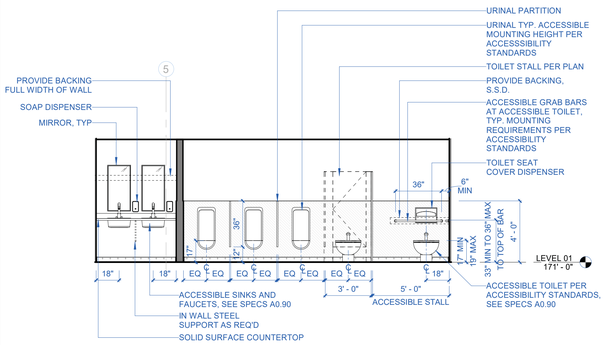
10 A5.00 INTERIOR ELEVATION - MEN'S RESTROOM - 4
1/4" = 1'-0"



9 A5.00 INTERIOR ELEVATION - MEN'S RESTROOM - 3
1/4" = 1'-0"

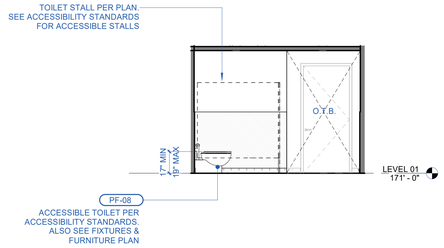


8 A5.00 INTERIOR ELEVATION - MEN'S RESTROOM - 2
1/4" = 1'-0"

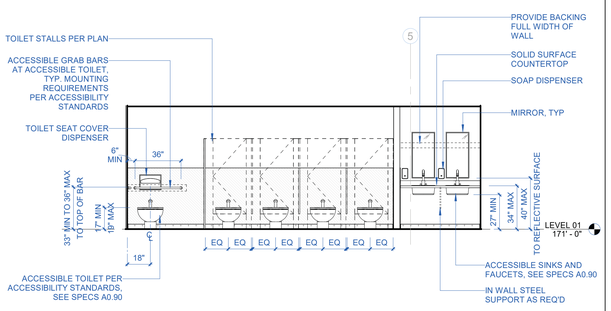


7 A5.00 INTERIOR ELEVATION - MEN'S RESTROOM - 1
1/4" = 1'-0"

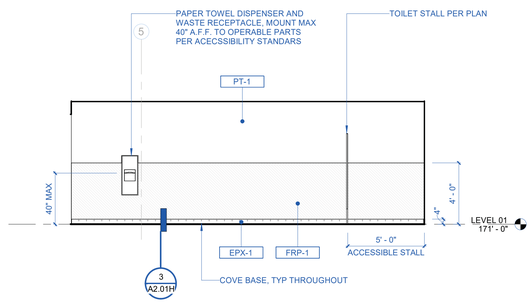
TYPICAL WOMEN'S RESTROOM



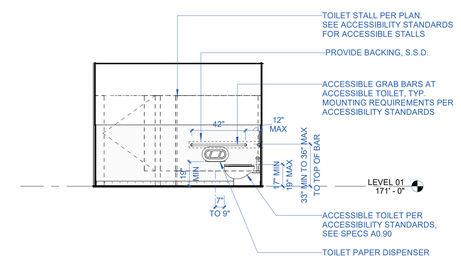
6 A5.00 INTERIOR ELEVATION - WOMEN'S RESTROOM - 4
1/4" = 1'-0"



5 A5.00 INTERIOR ELEVATION - WOMEN'S RESTROOM - 3
1/4" = 1'-0"



4 A5.00 INTERIOR ELEVATION - WOMEN'S RESTROOM - 2
1/4" = 1'-0"

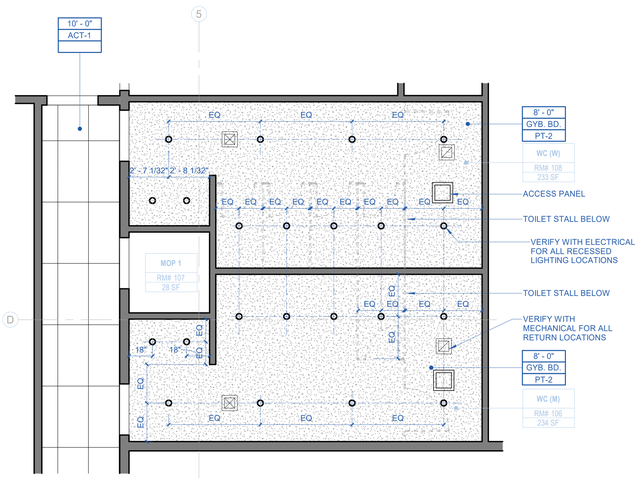


3 A5.00 INTERIOR ELEVATION - WOMEN'S RESTROOM - 1
1/4" = 1'-0"

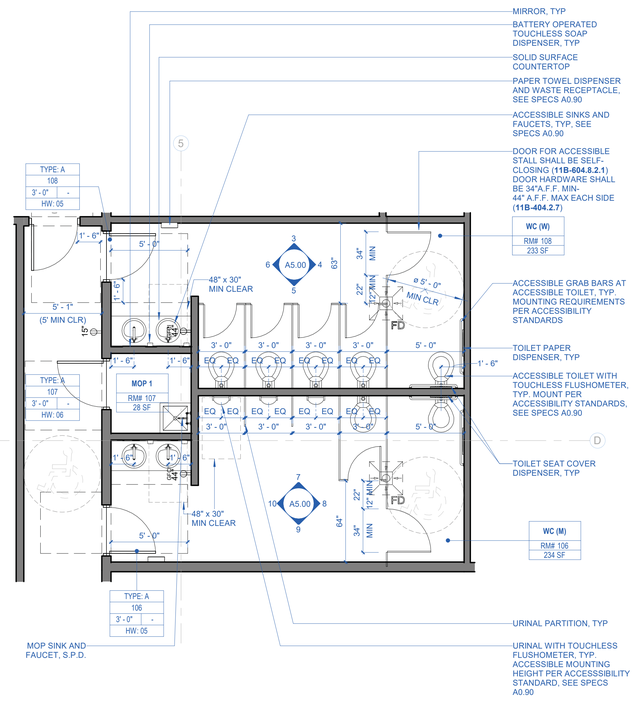
TYPICAL MEN'S AND WOMEN'S RESTROOMS

DESIGN CRITICAL CONSTRUCTION SEQUENCE NOTE:
PROVIDE PHOTO DOCUMENTATION FOR:

ALL BACKING PLATES, INCLUDING BACKING PLATES FOR FUTURE WALL FIXTURES



2 A5.00 ENLARGED RCP - LEVEL 01 - PHASE 1 - WC (W) AND WC (M) AND MOP
1/4" = 1'-0"



1 A5.00 ENLARGED FLOOR PLAN - LEVEL 01 - PHASE 1 - WC (W) AND WC (M) AND MOP
1/4" = 1'-0"

NOTES GENERAL - RESTROOMS

1. SEE ACCESSIBILITY STANDARDS IN A0 SERIES SHEETS FOR DETAILS FOR ACCESSIBLE MOUNTING HEIGHTS AND CLEARANCE DIMENSIONS OF FIXTURES.
2. CLOTHES HOOK ON TOILET COMPARTMENT DOORS SHALL BE AT 60" A.F.F. ON CENTER, AND 38"-40" A.F.F. FOR ADA STALLS.
3. HEIGHT OF SINK 2'-10" MAX A.F.F.
4. MOUNT MIRRORS 40" MAX A.F.F. MEASURED TO THE BOTTOM EDGE OF REFLECTIVE SURFACE
5. ACCESSIBLE URINAL 17" MAX HEIGHT
6. PROVIDE ULTRA-LOW FLUSH TOILETS AND URINALS.
7. SEE LIGHTING PLANS FOR LIGHTING INFORMATION
8. SEE SIGNAGE PLANS FOR SIGNAGE LOCATIONS
9. SEE OCCUPANCY AND EXITING PLANS FOR FIRE LIFE SAFETY EQUIPMENT LOCATIONS
10. SEE OVERALL REFLECTED CEILING PLANS FOR EXIT SIGNAGE AND SMOKE DETECTOR LOCATIONS

NOTES GENERAL - SECTIONS & INTERIOR FINISH

1. SEE SPECIFICATIONS ON SHEET A0.90 FOR ALL FINISHES
2. SEE INTERIOR ELEVATIONS & RCP FOR MATERIAL LAYOUT
3. GROUND AND FLOOR SURFACES ALONG ACCESSIBLE ROUTES AND IN ACCESSIBLE ROOMS AND SPACES, INCLUDING FLOORS, WALKS, RAMPS, CURB RAMPS AND STAIRS SHALL BE STABLE, FIRM AND SLIP-RESISTANT.
4. ALL MECHANICAL DUCTS, CONDUITS AND ALL SUPPORT MEMBERS ABOVE CEILING SHALL BE PAINTED TO MATCH SURROUNDING.
5. ALL GYP CEILING AND SOFFIT TO BE PAINTED TO MATCH ADJACENT WALL AND/OR CEILING.
6. ALL EXPOSED PERIMETER WALLS TO BE FINISHED AND PAINTED UP TO UNDER SIDE OF ROOF.
7. PROVIDE BLOCKING AT ALL CASEWORK, GRAB BARS, AND ACCESSORIES.
8. COORDINATE ALL MECHANICAL EQUIPMENT & DUCT LOCATIONS, AND LOCATIONS OF DUCT PENETRATIONS THROUGH WALLS WITH MECHANICAL CONSULTANT DRAWINGS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES OR CHANGES FROM THESE DRAWINGS PRIOR TO INSTALLATION.

LEGEND - REFLECTED CEILING PLAN

CEILING TYPES		NOTATIONS	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	CEILING TYPE 1: EXPOSED UNDERSIDE OF STRUCTURE, SEE DETAIL	0"	CHANGE IN PLANE OR SLAB, SEE STRUCTURAL DRAWINGS
	CEILING TYPE 2: 5/8" TYPE "X" GWB ON CEILING ASSEMBLY. FINISH AS SCHEDULED	F.C. 0	FLOOR/CEILING ASSEMBLY CALLOUT
	CEILING TYPE 3: ACOUSTIC CEILING TILE AS SCHEDULED		

CEILING DEVICES AND SYMBOLS			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SUPPLY DIFFUSER, S.M.D.	OS	OCCUPANCY SENSOR, S.E.D.
	RETURN DIFFUSER, S.M.D.		EXIT SIGN FIXTURE
	MECHANICAL DUCT, S.M.D.		SPRINKLER
	SUPPLY OR RETURN, S.M.D.	FA SA	FIRE ALARM DEVICE
SD	SMOKE DETECTOR		CEILING PATTERN START POINT

LEGEND - WALL TYPE

(N) NON STRUCTURAL PARTITION	
STOREFRONT	

P1-A-0 — ASSEMBLY TYPE; STUD SIZE; FIRE RATING; ASSEMBLY TYPE VARIATION; PARTITION WALL OR FURRING TYPE

P = PARTITION, **F** = FURRING, **S** = SHAFTWALL, **C** = CHASE WALL, **M** = MASONRY

SEE A8.00

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HOLLISTER, CA 95023
REF. PLAN CHECK # XXXXX

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ENLARGED PLANS, RCP'S & INT. ELEVATIONS - RESTROOMS

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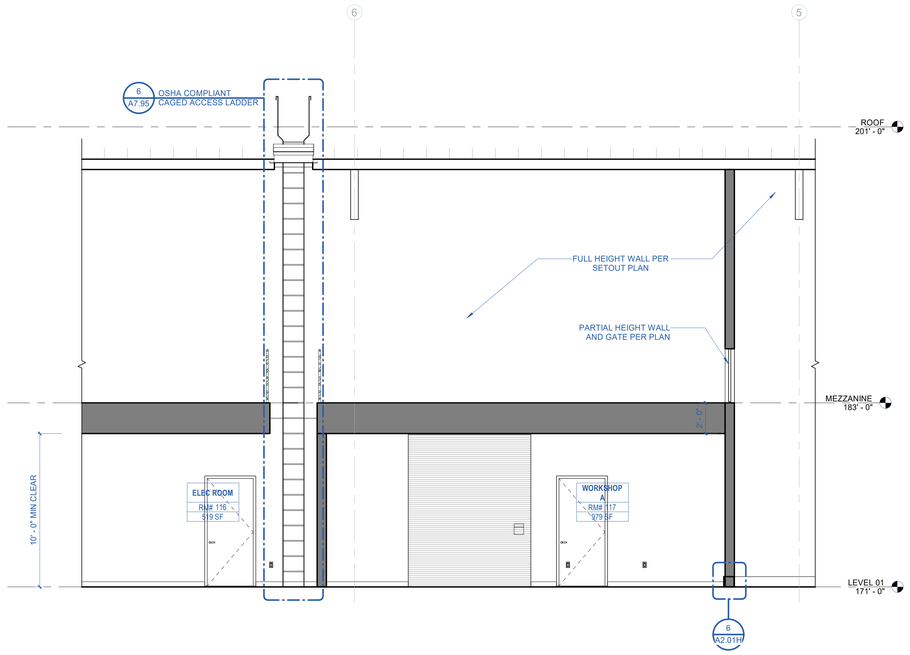
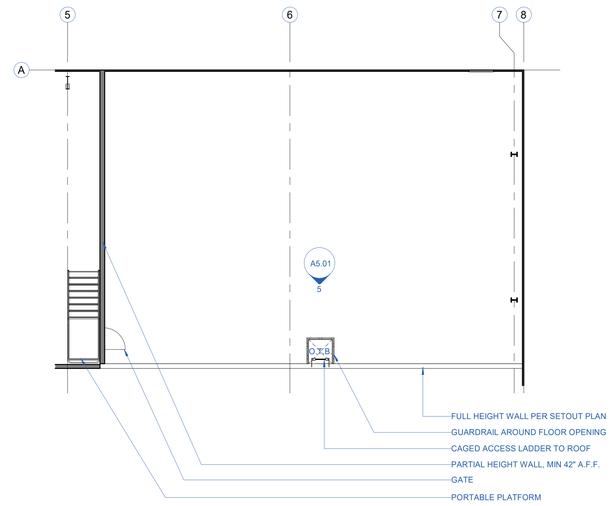
STORAGE MEZZANINE AND ROOF ACCESS

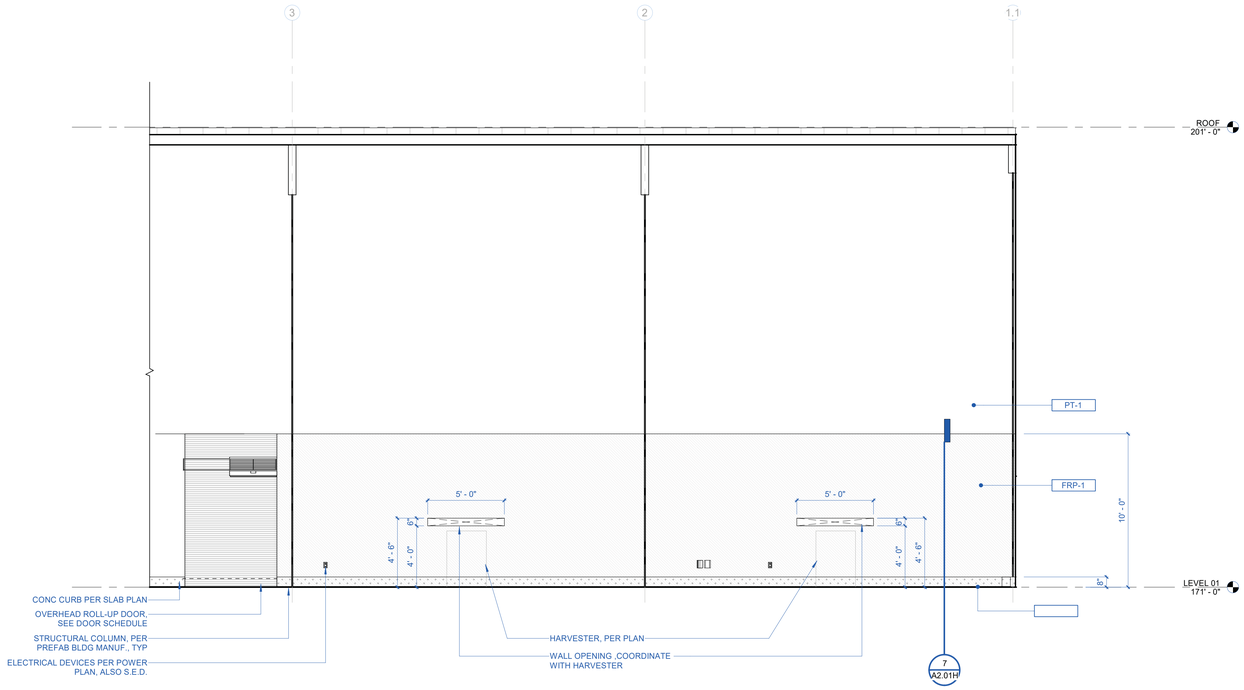


5 A5.01 INTERIOR ELEVATION - HARVEST TUNNEL1
1/4" = 1'-0"



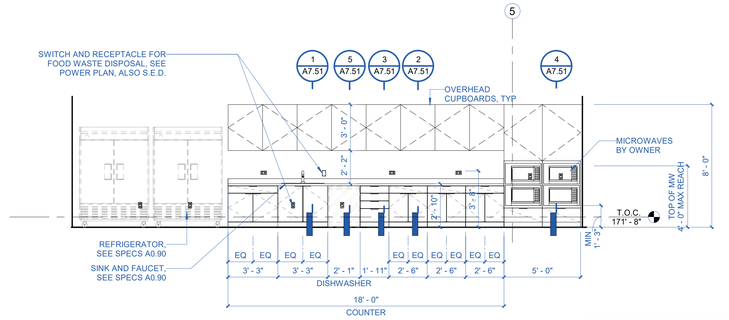
6 A5.01 MEZZANINE
1/8" = 1'-0"

HARVEST TUNNELS



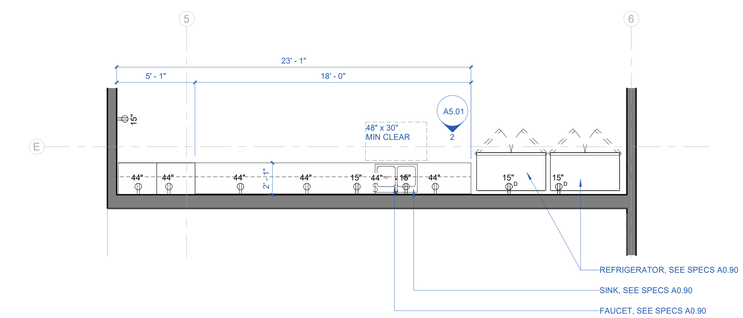
3 A5.01 INTERIOR ELEVATION - HARVEST TUNNEL
1/4" = 1'-0"

KITCHENETTE



NOTE
ALSO SEE POWER, COMM & DATA KEYNOTES

2 A5.01 INTERIOR ELEVATION - KITCHENETTE
1/4" = 1'-0"



1 A5.01 ENLARGED FLOOR PLAN - LEVEL 01 - PHASE I - KITCHENETTE
1/4" = 1'-0"

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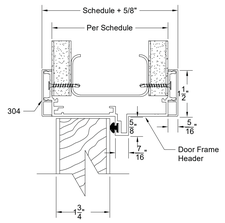
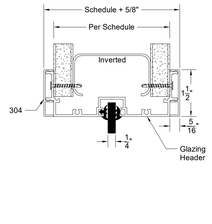


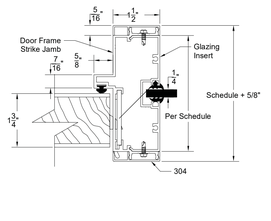
DETAIL 4A

300 SERIES DOOR FRAME HEADER TO DRYWALL W/ 304 ($\frac{5}{16}$" X 1½") FLUSH TRIM



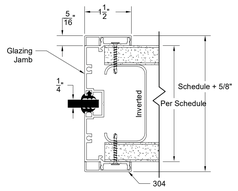
DETAIL 6A

300 SERIES GLAZING HEADER TO DRYWALL W/ 304 ($\frac{5}{16}$" X 1½") FLUSH TRIM



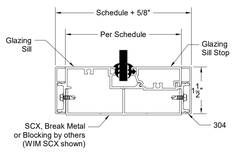
DETAIL 7A

300 SERIES DOOR FRAME STRIKE/SIDELIGHT JAMB W/ 304 ($\frac{5}{16}$" X 1½") FLUSH TRIM



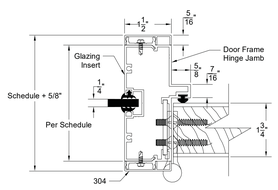
DETAIL 8A

300 SERIES GLAZING JAMB W/ 304 ($\frac{5}{16}$" X 1½") FLUSH TRIM



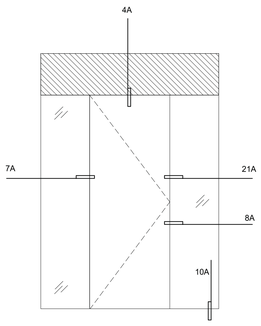
DETAIL 10A

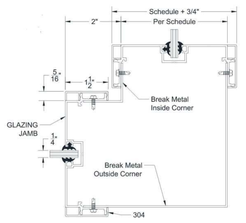
300 SERIES GLAZING SILL TO FLOOR W/ 304 ($\frac{5}{16}$" X 1½") FLUSH TRIM



DETAIL 21A

300 SERIES DOOR FRAME HINGE/SIDELIGHT JAMB W/ 304 ($\frac{5}{16}$" X 1½") FLUSH TRIM

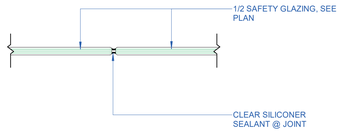




DETAIL 24A

300 SERIES CORNER MULLION JAMB W/ 304 ($\frac{5}{16}$" X 1½") FLUSH TRIM

3 A5.02 STOREFRONT DETAILS AT PRIVATE OFFICES
6" = 1'-0"



4 A5.02 ENLARGED PLAN DETAIL - GLASS ATTACHMENT
3" = 1'-0"

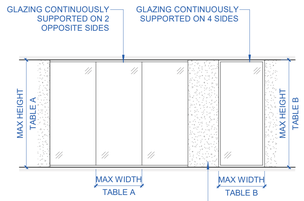


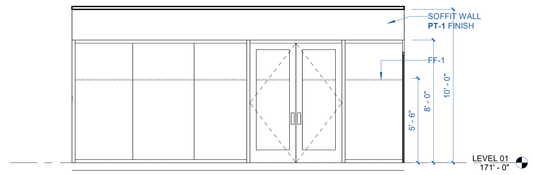
TABLE A
GLAZING CONTINUOUSLY SUPPORTED ON 2 OPPOSITE SIDES

MAXIMUM HEIGHT	MINIMUM THICKNESS	MIN WIDTH	MAX WIDTH
46"	1/4"	-	48"
96"	3/8"	20"	48"
120"	1/2"	20"	48"
144"	3/4"	29"	48"

TABLE B
GLAZING CONTINUOUSLY SUPPORTED ON 4 SIDES

MAXIMUM HEIGHT	MINIMUM THICKNESS	MIN WIDTH	MAX WIDTH
50"	1/4"	24"	36"
100"	3/8"	24"	36"
150"	1/2"	28"	48"

2 A5.02 GLAZING PANEL - SIZING STANDARD
1/4" = 1'-0"



1 A5.02 CONFERENCE ROOM STOREFRONT ELEVATION
1/4" = 1'-0"

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HOLLISTER, CA 95023
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ENLARGED INTERIOR ELEVATIONS

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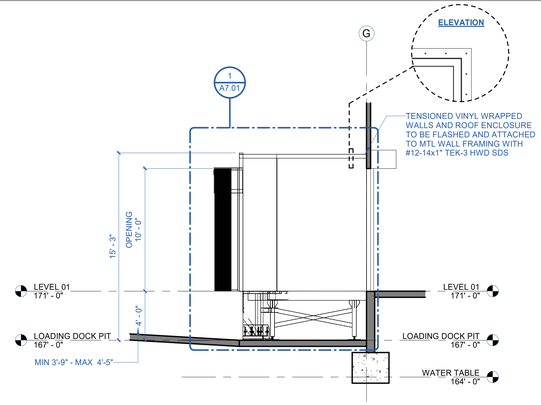
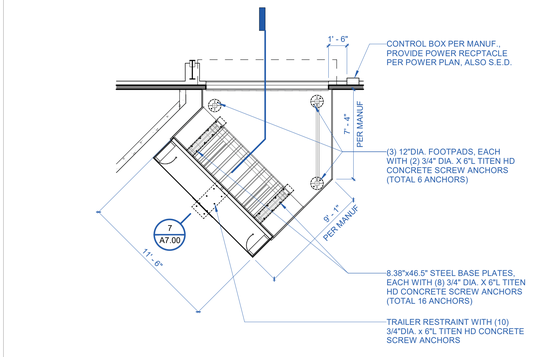
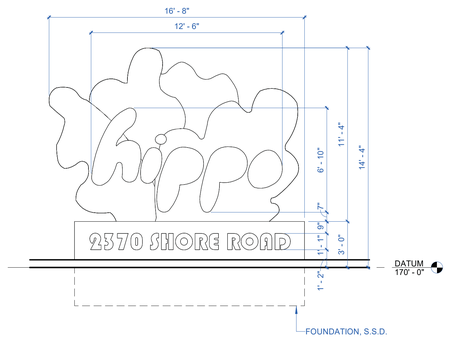


7 A7.00 SECTION DETAIL - DOCKZILLA
1 : 60

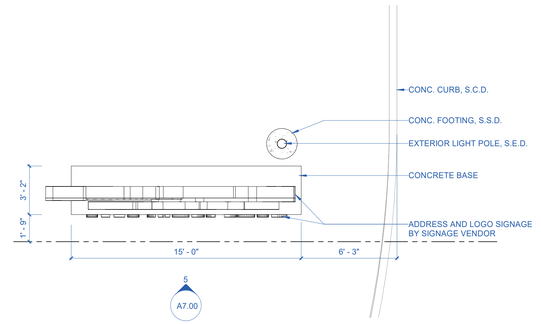


6 A7.00 ENLARGED PLAN DETAIL - DOCKZILLA
1 : 60



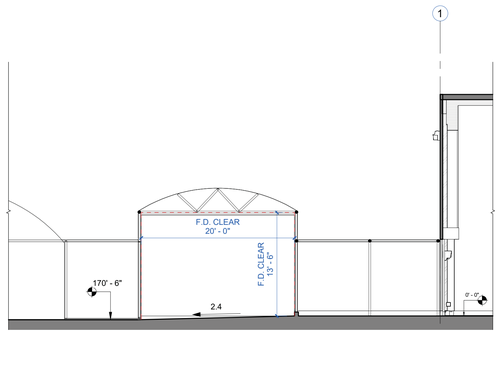


5 A7.00 ENLARGED ELEVATINO - MONUMENT SIGN
1/4" = 1'-0"

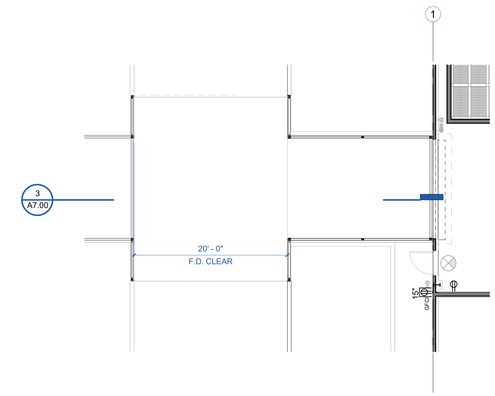


4 A7.00 ENLARGED PLAN DETAIL - MONUMENT SIGN
1/4" = 1'-0"

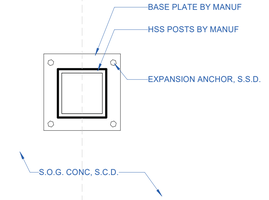




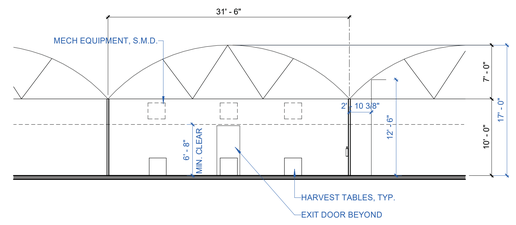
3 A7.00 ENLARGED SECTION DETAIL - HOOP HOUSE TUNNEL
1/8" = 1'-0"



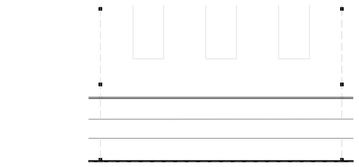
2 A7.00 ENLARGED PLAN DETAIL - HOOP HOUSE TUNNEL
1/8" = 1'-0"

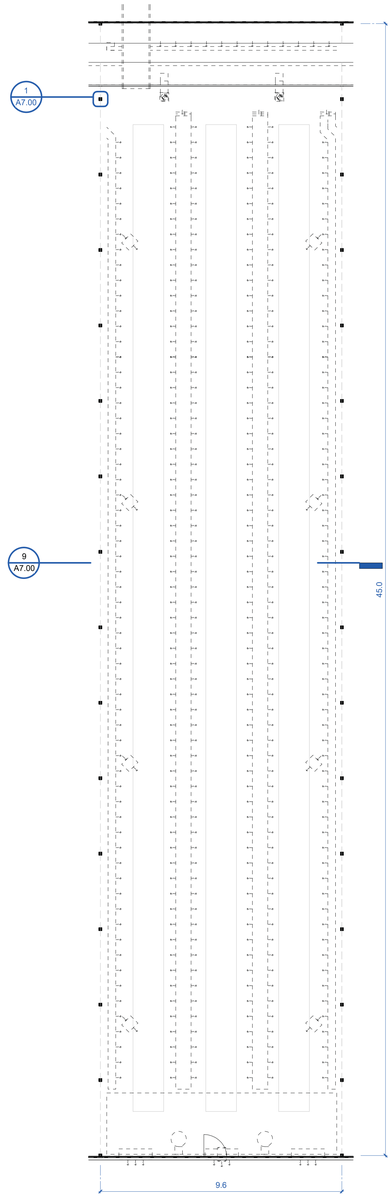


1 A7.00 ENLARGED DETAIL - HOOP HOUSE BASE PLATE
3" = 1'-0"



9 A7.00 ENLARGED DETAIL - TYPICAL HOOP HOUSE - SECTION
1/8" = 1'-0"





8 A7.00 ENLARGED DETAIL - TYPICAL HOOP HOUSE - PLAN
1/8" = 1'-0"

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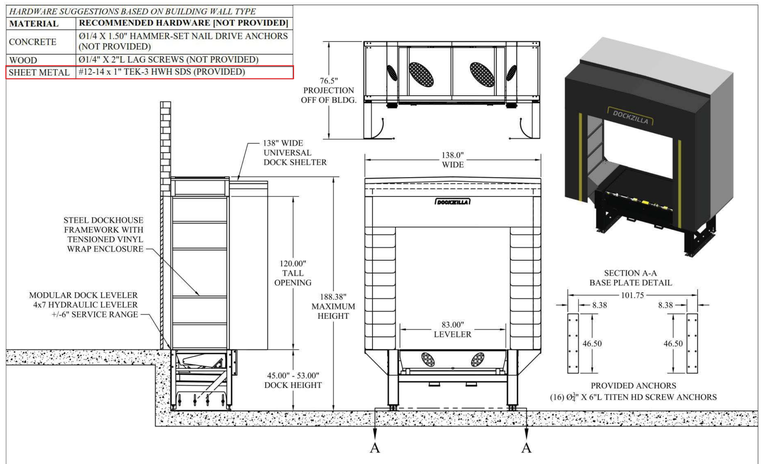
BID SET #1 - ADDENDUM 2

HARDWARE SUGGESTIONS BASED ON BUILDING WALL TYPE	
MATERIAL	**RECOMMENDED HARDWARE [NOT PROVIDED]**
CONCRETE	Ø1/4 X 1.50" HAMMER-SET NAIL DRIVE ANCHORS (NOT PROVIDED)
WOOD	Ø1/4" X 2"L LAG SCREWS (NOT PROVIDED)
SHEET METAL	#12-14 x 1" TEK-3 HWH SDS (PROVIDED)



SECTION A-A
BASE PLATE DETAIL

PROVIDED ANCHORS
(16) Ø$\frac{3}{4}$" X 6"L TITEN HD SCREW ANCHORS

DOCK HOUSE PART NUMBER OPTIONS

P/N	LEVELER DIMENSIONS	DOCKHOUSE WIDTH	CAPACITY (lbs)	POWER	BASE PLATE LOADING* DEAD (lbs)	LIVE (lbs)
DH4713816AC	4'L X 7'W	138"	16,000	AC	3,200	16,000
DH4713816DC				DC	3,200	16,000
DH4713832AC			32,000	AC	3,800	32,000
DH4713832DC				DC	3,800	32,000

* LOADS DO NOT INCLUDE ENVIRONMENTAL LOADING SUCH AS SNOW OR WIND.

MATERIAL: | FINISH:

ALL DIMENSIONS IN INCHES
TOLERANCES UNLESS OTHERWISE SPECIFIED:
.X ± .125
.XX ± .062
.XXX ± .031
.XXXX ± .016
ANGLES ± 1.0°

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CHECKED BY:	DATE	
APPROVED BY:	DATE	

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THIRD ANGLE PROJECTION

DOCKZILLA

TITLE: DOCKZILLA MODULAR DOCKHOUSE APPLICATION DRAWING

DRG NO: DH47138-APP

SCALE: N/A | REV: A | SHEET: 1 OF 3 | REV: B

ELECTRICAL REQUIREMENTS

CUSTOMER IS RESPONSIBLE FOR BRINGING POWER TO THE RECEPTACLE & MAKING THE FINAL CONNECTION FROM THE CONTROL BOX(ES) TO POWER

- SEE THE NOTES BELOW FOR THE POWER REQUIREMENTS
- LAND TO MEET LOCAL CODES
- DISCONNECT REQUIRED IF HARDWIRING CONTROL BOX INTO BUILDING POWER
- QUAD RECEPTACLE RECOMMENDED
- 115V POWER MUST BE **WITHOUT** GFCI PROTECTION
  - ANY GFCI PROTECTION MUST BE REMOVED PRIOR TO DOCKZILLA INSTALL
- DOCKZILLA IS ONLY RESPONSIBLE FOR LOW VOLTAGE WIRING
  - DOCKZILLA WILL NOT CONNECT TO BUILDING POWER (≥115V)
  - DOCKZILLA WILL NOT INSTALL EMT OR RIGID CONDUIT

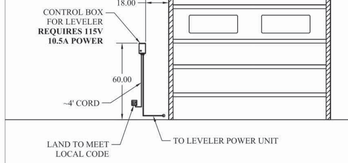
DOCKZILLA IS RESPONSIBLE FOR MOUNTING CONTROL BOX(ES) & COMPLETING CONTROL WIRING

- CUSTOMER IS RESPONSIBLE FOR VERIFYING THERE IS SUFFICIENT SPACE TO MOUNT THE CONTROL BOX(ES)
- CONTROL BOX(ES) WILL BE MOUNTED AS INDICATED BELOW UNLESS OTHERWISE SPECIFIED BY THE CUSTOMER

COORDINATE LOCATION OF RECEPTACLES AND CONTROL BOXES WITH POWER PLAN, SHEET A2.01E.I

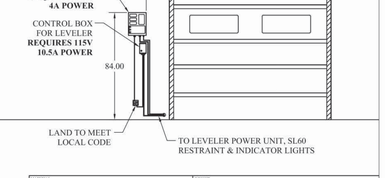
DOCKHOUSE

VIEW FROM INSIDE BUILDING



DOCKHOUSE + SL60 RESTRAINT

VIEW FROM INSIDE BUILDING



MATERIAL: | FINISH:

ALL DIMENSIONS IN INCHES
TOLERANCES UNLESS OTHERWISE SPECIFIED:
.X ± .125
.XX ± .062
.XXX ± .031
.XXXX ± .016
ANGLES ± 1.0°

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THIRD ANGLE PROJECT

DOCKZILLA

TITLE: DOCKZILLA MODULAR DOCKHOUSE APPLICATION DRAWING ELECTRICAL REQUIREMENTS

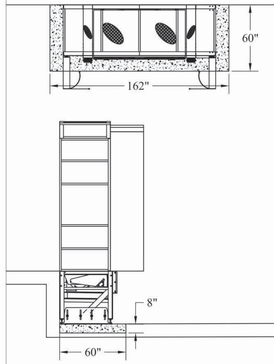
DRG NO: DH47138-APP

SCALE: N/A | REV: A | SHEET: 2 OF 3 | REV: B



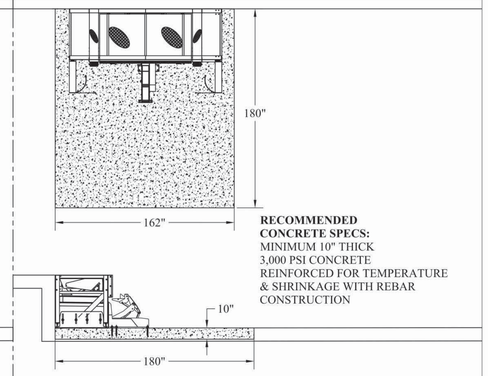
CONCRETE RECOMMENDATIONS

4X7 LEVELER, 138" DOCKHOUSE



RECOMMENDED CONCRETE SPECS:
MINIMUM 8" THICK
3,000 PSI CONCRETE
REINFORCED FOR TEMPERATURE & SHRINKAGE

DOCKHOUSE WITH SL60 RESTRAINT



RECOMMENDED CONCRETE SPECS:
MINIMUM 10" THICK
3,000 PSI CONCRETE
REINFORCED FOR TEMPERATURE & SHRINKAGE WITH REBAR CONSTRUCTION

MATERIAL: | FINISH:

ALL DIMENSIONS IN INCHES
TOLERANCES UNLESS OTHERWISE SPECIFIED:
.X ± .125
.XX ± .062
.XXX ± .031
.XXXX ± .016
ANGLES ± 1.0°

DO NOT SCALE DRAWING

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THIRD ANGLE PROJECTION

DOCKZILLA

TITLE: DOCKZILLA MODULAR DOCKHOUSE APPLICATION DRAWING CONCRETE RECOMMENDATION

DRG NO: DH47138-APP

SCALE: N/A | REV: A | SHEET: 3 OF 3 | REV: B

1 A7.01 SITE DETAIL - MODULAR DOCK HOUSE
1/4" = 1'-0"

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LANDSCAPE & IRRIGATION: KAREN AITKEN & ASSOC., 8262 Rancho Real, Gilroy, CA 95020, www.karenaitkenassociates.com, T: 408.842.0245, Contact: Pam Jones, E-Mail: pam@kaa design.com
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SHEET TITLE :
TYP. DETAILS - MODULAR DOCK HOUSE

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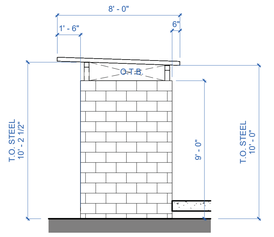
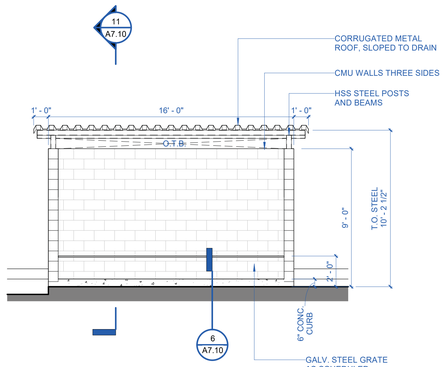
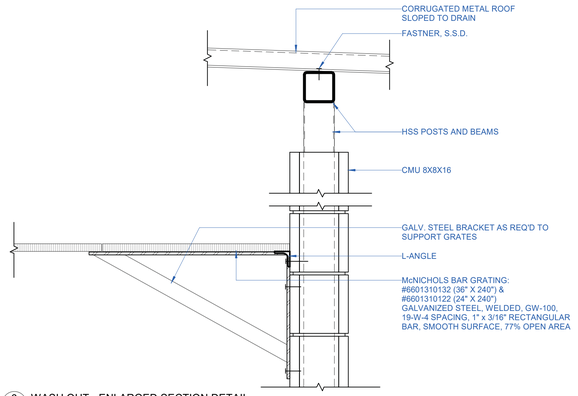


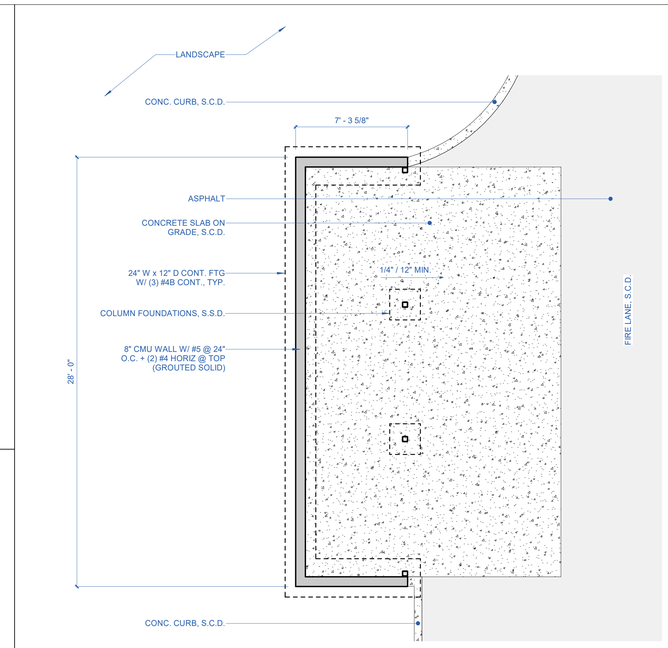
12 A7.10 WASH OUT - ELEVATION 2
1/4" = 1'-0"



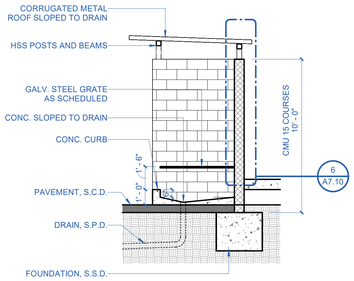
8 A7.10 WASH OUT - ELEVATION 1
1/4" = 1'-0"



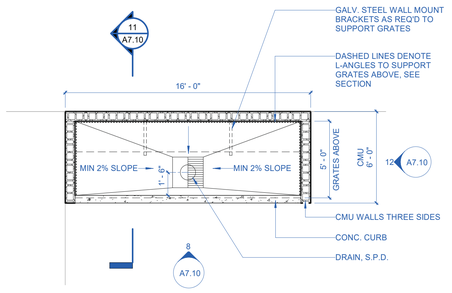
6 A7.10 WASH OUT - ENLARGED SECTION DETAIL
1 1/2" = 1'-0"



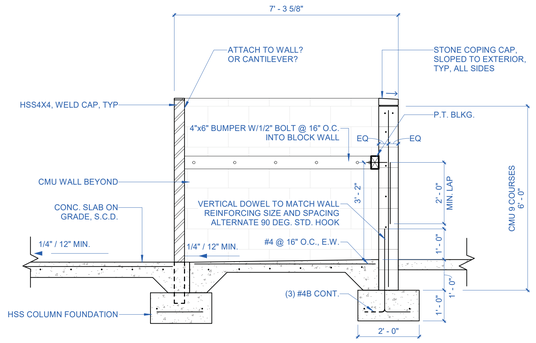
2 A7.10 TRASH ENCLOSURE - FOUNDATION PLAN
1/4" = 1'-0"



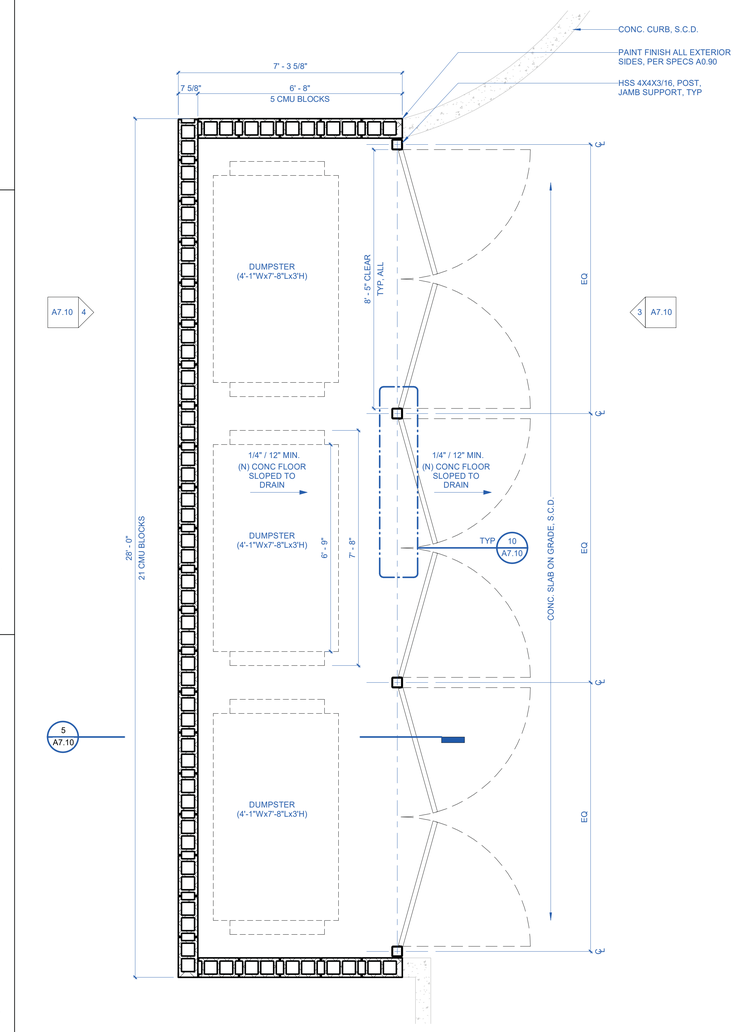
11 A7.10 WASHOUT - SECTION
1/4" = 1'-0"



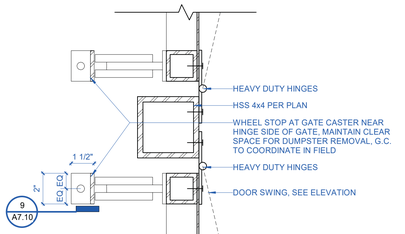
7 A7.10 WASH OUT - ENLARGED PLAN
1/4" = 1'-0"



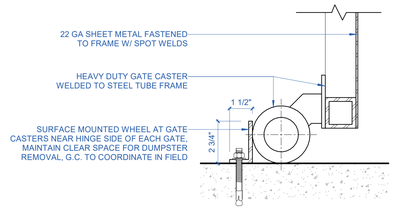
5 A7.10 TRASH ENCLOSURE - SECTION A
1/2" = 1'-0"



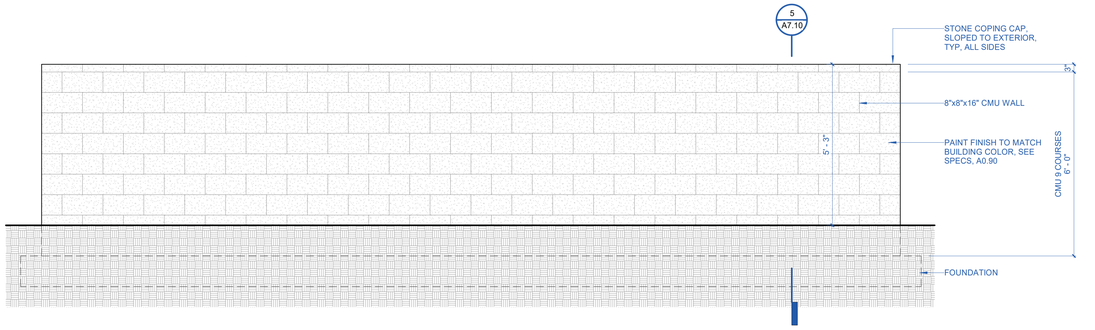
1 A7.10 TRASH ENCLOSURE - ENLARGED PLAN
1/2" = 1'-0"



10 A7.10 TRASH ENCLOSURE - SWING GATE PLAN DETAIL
3" = 1'-0"

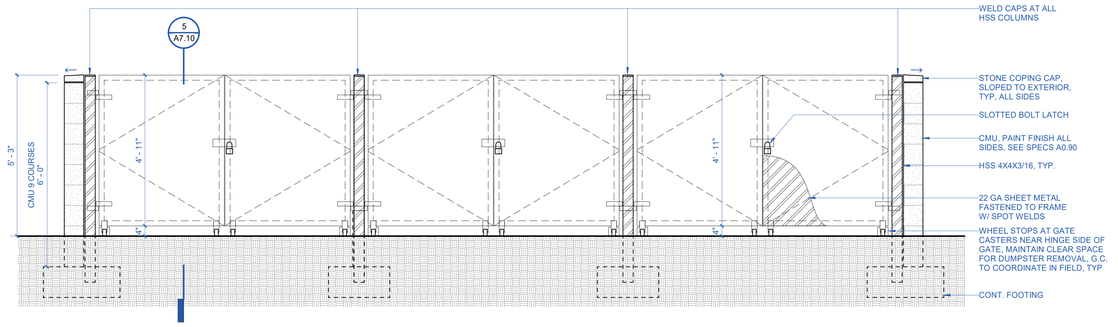


9 A7.10 TRASH ENCLOSURE - WHEEL STOP DETAIL
3" = 1'-0"



NOTES
1. ALL EXPOSED STEEL SHALL RECEIVE HIGH PERFORMACE COATING (TNEMEC OR EPOXY), COLOR TO MATCH BUILDING, SEE SPECS A0.90
2. EXTERIOR FACES OF CMU SHALL RECEIVE ELASTOMERIC PAINT FINISH (SW DOVE WHITE)

4 A7.10 TRASH ENCLOSURE - BACK ELEVATION
1/2" = 1'-0"



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2. EXTERIOR FACES OF CMU SHALL RECEIVE ELASTOMERIC PAINT FINISH (SW DOVE WHITE)

3 A7.10 TRASH ENCLOSURE - FRONT ELEVATION
1/2" = 1'-0"

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HOLLISTER, CA 95023
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TYP. DETAILS - TRASH ENCLOSURE

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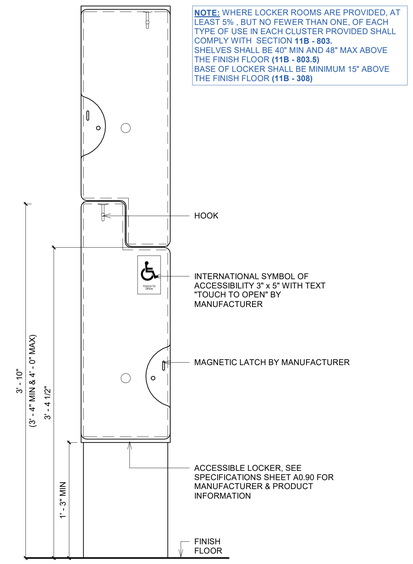
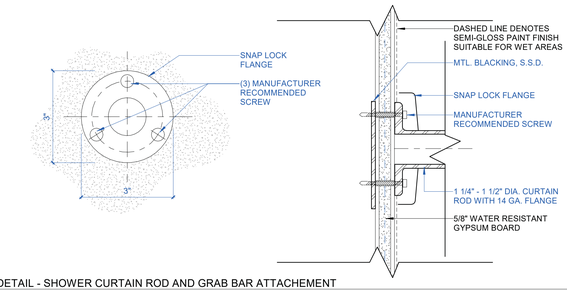
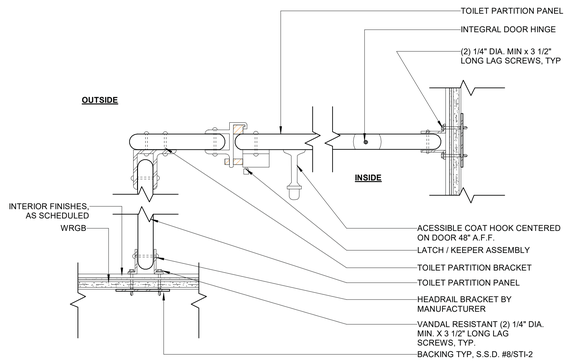


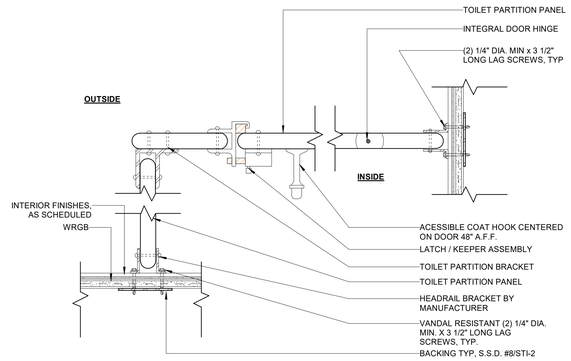
6 A7.40 ACCESSIBILITY DETAIL - LOCKERS
1 1/2" = 1'-0"



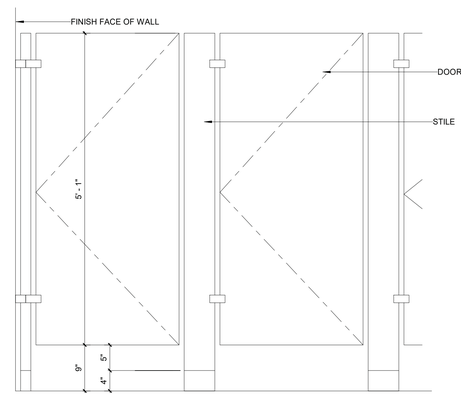
3 A7.40 BATHROOM DETAIL - SHOWER CURTAIN ROD AND GRAB BAR ATTACHEMENT
6" = 1'-0"



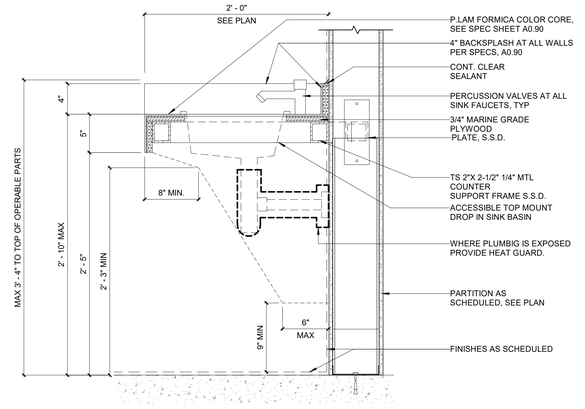
5 A7.40 BATHROOM DETAIL - TOILET PARTITION DETAILS
3" = 1'-0"



2 A7.40 BATHROOM DETAIL - TOILET PARTITION BRACING
3" = 1'-0"



4 A7.40 BATHROOM DETAIL - TYPICAL TOILET PARTITION - FLOOR MOUNTED
1" = 1'-0"



DESIGN CRITICAL CONSTRUCTION SEQUENCE NOTE; PROVIDE PHOTO DOCUMENTATION:

FOR SHOWER PAN LINING AND FULL EXTENS OF WATERPROOFED SURFACES

1 A7.40 BATHROOM DETAIL - VANITY SUPPORT SECTION DETAIL
1 1/2" = 1'-0"

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TYPICAL DETAILS - BATHROOMS

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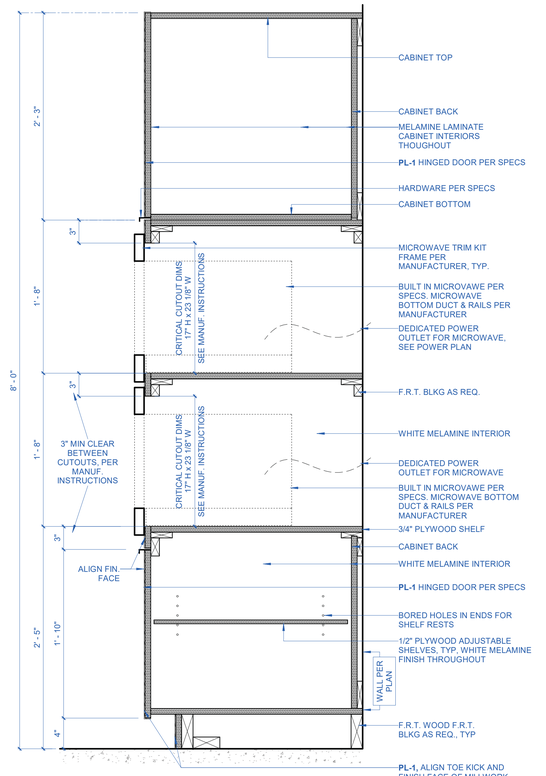
3. SEE ANCHORAGE DETAILS FOR CABINETRY CONSTRUCTION.



4 A7.51 MILLWORK DETAIL - BUILT-IN MICROWAVES
1 1/2" = 1'-0"

NOTES
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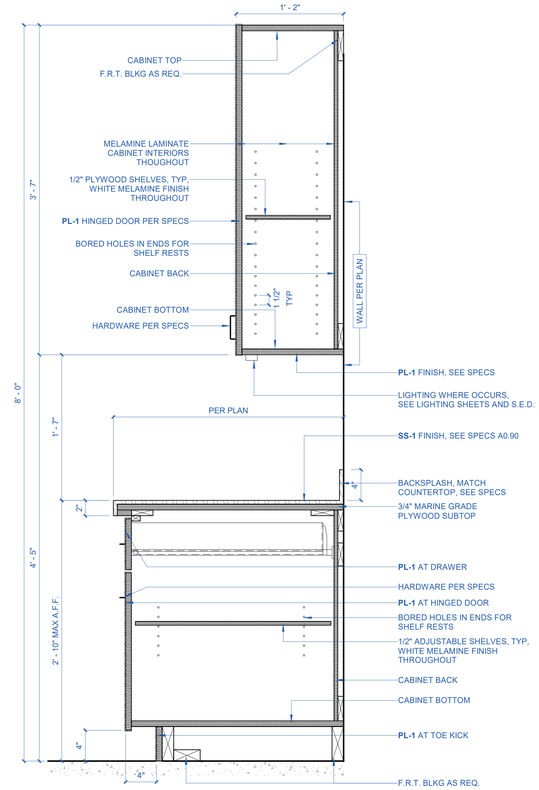

2 A7.51 MILLWORK DETAIL - CABINET WITH DRAWER
1 1/2" = 1'-0"

NOTES
1. ALL WOOD SURFACES MUST BE SEALED.
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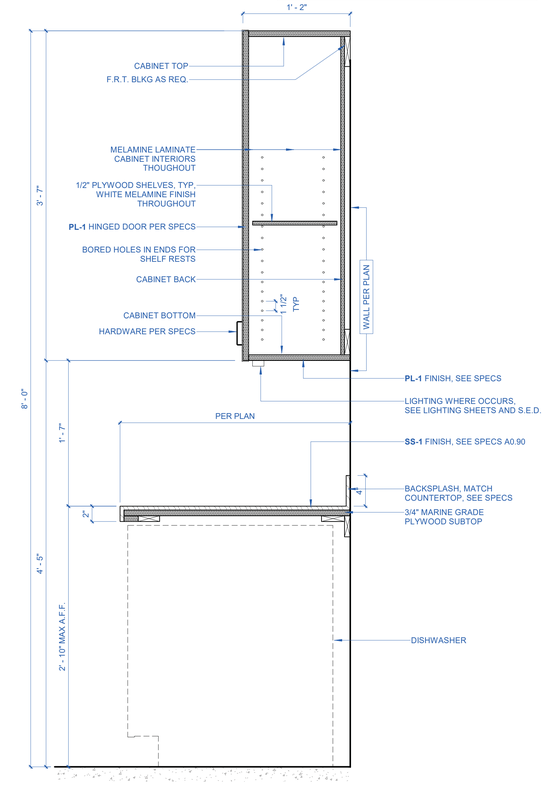
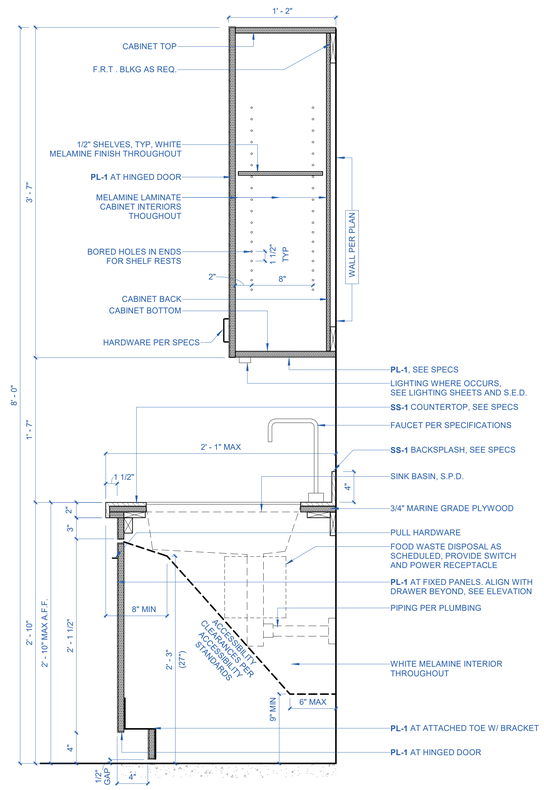


3 A7.51 MILLWORK DETAIL - CABINET WITH DRAWERS
1 1/2" = 1'-0"

NOTES
1. ALL WOOD SURFACES MUST BE SEALED.
2. PAINT APPLIED TO THE SURFACES MUST BE A GLOSS OR SEMI-GLOSS ENAMEL FINISH.
3. SEE ANCHORAGE DETAILS FOR CABINETRY CONSTRUCTION.



1 A7.51 MILLWORK DETAIL - CABINET WITH SINK
1 1/2" = 1'-0"

NOTES
1. ALL WOOD SURFACES MUST BE SEALED.
2. PAINT APPLIED TO THE SURFACES MUST BE A GLOSS OR SEMI-GLOSS ENAMEL FINISH.
3. SEE ANCHORAGE DETAILS FOR CABINETRY CONSTRUCTION.

5 A7.51 MILLWORK DETAIL - DISHWASHER
1 1/2" = 1'-0"

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KITCHEN MILLWORK DETAILS

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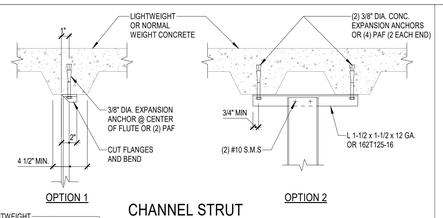
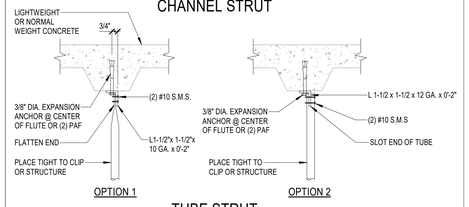
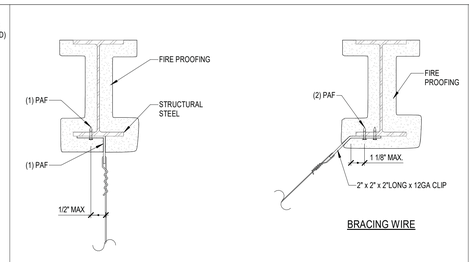


CHANNEL STRUT



TUBE STRUT

17 A7.71 STRUT CONN TO CONC. OVER METAL DECK
1" = 1'-0"



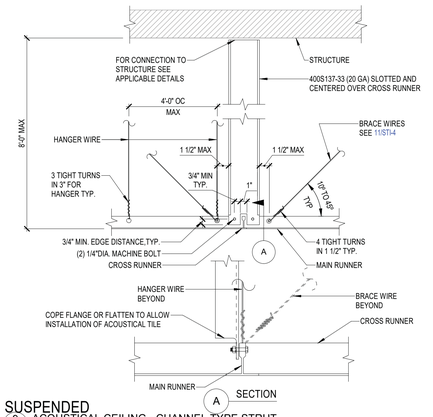
NOTES:

1. BEAM FLANGE THICKNESS SHALL NOT BE LESS THAN 3/16" OR MORE THAN 3/8"
2. CONTRACTOR SHALL VERIFY THAT NO PAF IS INSTALLED IN THE PROTECTED ZONE OF ANY STEEL MEMBER, SEE ANSI/AISC 341-16.

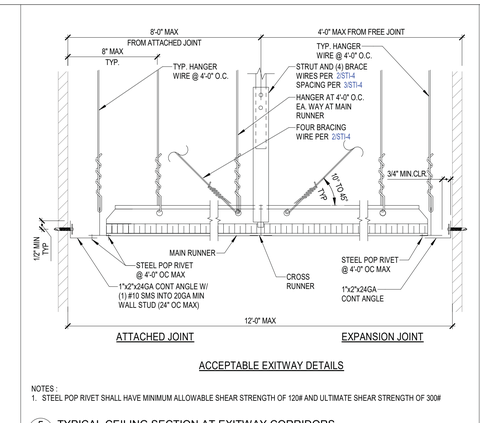
NOTES:

1. BEAM FLANGE THICKNESS SHALL NOT BE LESS THAN 3/16" OR MORE THAN 3/8"

13 A7.71 HANGER & BRACING WIRE CONN. TO STRUCTURAL STEEL
1" = 1'-0"



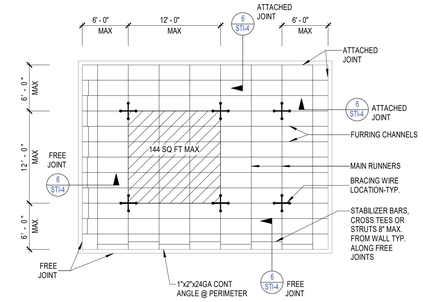
9 A7.71 ACOUSTICAL CEILING - CHANNEL TYPE STRUT
1" = 1'-0"



ACCEPTABLE EXITWAY DETAILS

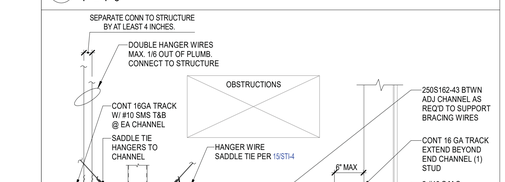
NOTES :
1. STEEL POP RIVET SHALL HAVE MINIMUM ALLOWABLE SHEAR STRENGTH OF 120# AND ULTIMATE SHEAR STRENGTH OF 300#

5 A7.71 TYPICAL CEILING SECTION AT EXITWAY CORRIDORS
1" = 1'-0"

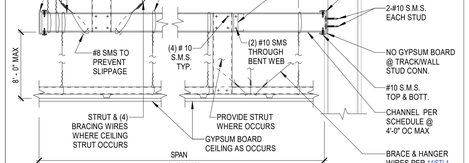


NOTES:
1. BRACING WIRES AND COMP. STRUT SHALL OCCUR AT EVERY 144 SQ. FT. MAX. IN ROOMS OVER 144 SQ. FT.

1 A7.71 TYPICAL CEILING PLAN
1" = 1'-0"

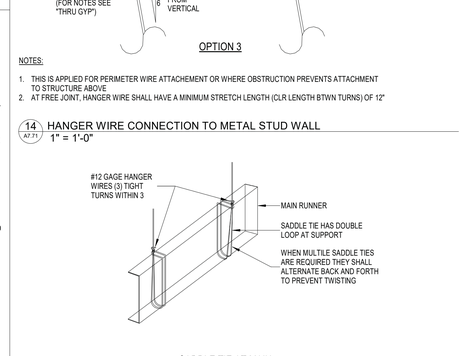


CHANNEL STRUT



TUBE STRUT

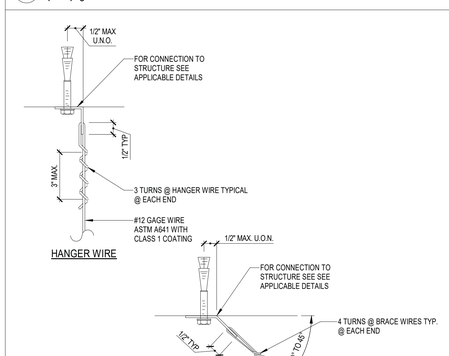
18 A7.71 STRUT CONNECTION TO STRUCTURAL STEEL
1" = 1'-0"



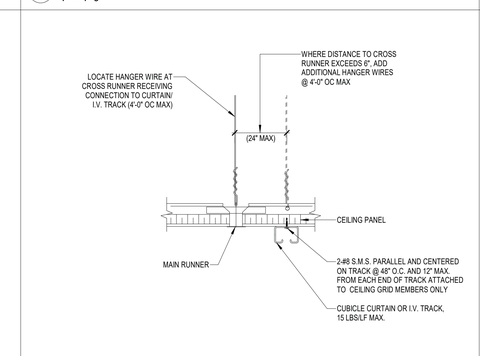
NOTES:

1. THIS IS APPLIED FOR PERIMETER WIRE ATTACHEMENT OR WHERE OBSTRUCTION PREVENTS ATTACHMENT TO STRUCTURE ABOVE
2. AT FREE JOINT, HANGER WIRE SHALL HAVE A MINIMUM STRETCH LENGTH (CLR LENGTH BTWN TURNS) OF 12"

14 A7.71 HANGER WIRE CONNECTION TO METAL STUD WALL
1" = 1'-0"



10 A7.71 SUSPENDED ACOUSTICAL CEILING - TUBE TYPE STRUT
1" = 1'-0"

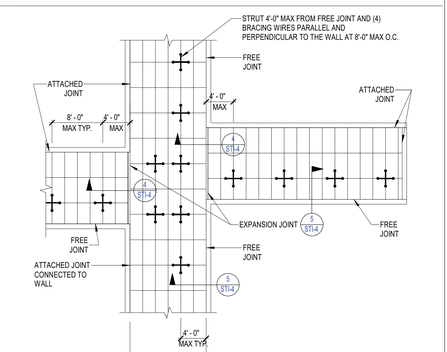


1. PROVIDE #12 GAGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE SUPPORT OR WITHIN ONE-FOURTH (1/4) OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS, FOR THE PERIMETER OF THE CEILING AREA. PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS EIGHT (8) INCHES OR LESS.
2. NAILS AT ENDS OF HORIZONTAL STRUTS ARE TO BE PLACED WITH NAIL HEAD TOWARD CENTER LINE OF SPAN OF STRUT.
3. SPACERS MAY BE SLOTTED APPROVED ANGLES OR CHANNELS WITH "DIAMOND POINTS" OF SPRING STEEL WHICH SNAP TIGHT TO PREVENT MOVEMENT OF STRUT.
4. STEEL POP RIVETS SHALL HAVE MINIMUM ALLOWABLE SHEAR STRENGTH OF 120# AND ULTIMATE SHEAR STRENGTH OF 300#.



APPROVED SPACER

6 A7.71 TYPICAL CEILING SECTION AT EXITWAY CORRIDORS
1" = 1'-0"



NOTES:
1. STRUTS SHALL NOT REPLACE HANGER WIRES.
2. FOR CONDITIONS AT CORRIDOR SEE DETAIL 3/S-TI-4

2 A7.71 SUSPENDED CEILING BRACING ASSEMBLY1
1" = 1'-0"

WALL WHERE OCCURS

DBL. SECTION

SPAN	SECTION
6'-0"	250S162-43
12'-0"	362S162-43

19 A7.71 OBSTRUCTION-BRIDGE AT LARGE OFFSET CONDITION
1" = 1'-0"

WALL STUD GAUGE	CONN TO WALL STUD	CONN TO WALL STUD ALT [3]
20GA	(5) #10x1-1/4" SMS	(3) #10x1-1/4" SMS
18GA	(4) #10x1-1/4" SMS	(2) #10x1-1/4" SMS

BRACING WIRE CONN TO CONC. OVER METAL DECK

BRACING WIRE CONN TO METAL STUD WALL

16 A7.71 BRACING WIRE CONNECTION
1" = 1'-0"

11 A7.71 HANGER AND BRACING WIRE CONN - TYP WIRE TURNS
1" = 1'-0"

SUSPENDED

7 A7.71 ACOUSTICAL CEILING - CUBICLE CURTAIN I.V. TRACK
1" = 1'-0"

LOCATION OF EXPANSION/SLIP JOINTS IN CORRIDORS

3 A7.71 SUSPENDED ACOUSTICAL CEILING - CORRIDOR CEILING PLAN
1" = 1'-0"

TRAPEZE SUPPORT

20 A7.71 OBSTRUCTION - TRAPEZE CONDITION
1" = 1'-0"

NOTES:
1. REFER TO 11/ ST1-4 FOR ADDITIONAL DETAILS

12 A7.71 HANGER WIRE CONN. TO CONCRETE OVER METAL DECK
1" = 1'-0"

SUSPENDED ACOUSTICAL CEILING -

8 A7.71 LIGHT FIXTURES/ AIR TERMINAL SUPPORT DETAIL
1" = 1'-0"

RUNNER SPLICE

EXPANSION JOINT

EXPANSION JOINT AT INTERSECTION OF CORRIDORS, JUNCTIONS OF CORRIDORS AND LOBBIES, SIMILAR AREAS AND CEILING OVER 2500 SFT

SUSPENDED ACOUSTICAL

4 A7.71 CEILING - EXPANSION JOINT AT INTERSECTIONS
1" = 1'-0"

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STANDARD SUSPENDED ACT CEILING DETAILS

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BID SET #1 - ADDENDUM 2

NOTES - ACT METAL SUSPENSION SYSTEMS FOR LAY-IN PANELS

1. GENERAL REQUIREMENTS: CBC SECTION 1615A1.16 (1615.10.13*) REQUIRES THE DESIGN AND INSTALLATION TO BE IN COMPLIANCE WITH ASTM C635, C636, AND E580, SECTION 5, AS AMENDED BY 2010 CBC SECTION 1615A.1.16 (1615.10.13*).

2. SUSPENSION SYSTEM COMPONENTS: SHALL COMPLY WITH ASTM C635 AND SECTION 5.1 OF ASTM E580.

2.1 THE CEILING GRID SYSTEM MUST BE RATED HEAVY DUTY AS DEFINED BY ASTM C635.
2.2 SUSPENSION WIRES SHALL BE #12 GAGE (0.106" DIAMETER), SOFT ANNEALED, AND GALVANIZED STEEL WIRES WITH CLASS 1 COATING.
2.3 MAIN RUNNERS, CROSS RUNNERS, SPLICES, EXPANSION DEVICES, AND INTERSECTION CONNECTORS SHALL BE DESIGNED TO CARRY A MEAN ULTIMATE TEST LOAD OF NOT LESS THAN 180 LBS. IN COMPRESSION AND TENSION PER ASTM E580 SECTION 5.1.2.

3. SUSPENSION SYSTEM INSTALLATION: SHALL COMPLY WITH ASTM C636 AND SECTION 5.2 OF ASTM E580.

3.1 #12 GAGE HANGER WIRES MAY BE USED FOR UP TO AND INCLUDING 4 FT. BY 4 FT. GRID SPACING AND SHALL BE ATTACHED TO MAIN RUNNERS.
3.2 PROVIDE #12 GAGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE SUPPORT OR WITHIN ONE-FOURTH (1/4) OF THE LENGTH OF THE END TEE, WHICHEVER IS LEAST, FOR THE PERIMETER OF THE CEILING AREA. PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS EIGHT (8) INCHES OR LESS.
3.3 CEILING GRID MEMBERS SHALL BE ATTACHED TO TWO (2) ADJACENT WALLS PER ASTM E580, SECTION 5.2.3. CEILING GRID MEMBERS SHALL BE AT LEAST 3/4 INCH CLEAR OF OTHER WALLS. IF WALLS RUN DIAGONALLY TO CEILING GRID SYSTEM RUNNERS, ONE END OF MAIN AND CROSS RUNNERS SHOULD BE FREE, AND A MINIMUM OF 3/4 INCH CLEAR OF WALL.
3.4 THE WIDTH OF THE PERIMETER SUPPORTING CLOSURE ANGLE SHALL BE NOT LESS THAN 2 INCHES. GRID SYSTEMS WITH SPECIALTY ANGLES AND SUPPORT CLIPS MAY BE ACCEPTABLE IN ACCORDANCE WITH SECTION 11 BELOW.
3.5 AT THE PERIMETER OF THE CEILING AREA, WHERE MAIN OR CROSS RUNNERS ARE NOT CONNECTED TO THE ADJACENT WALL, PROVIDE INTERCONNECTION BETWEEN THE RUNNERS AT THE FREE END TO PREVENT LATERAL SPREADING. A METAL SPREADER STRUT OR A #16 GAGE WIRE WITH A POSITIVE MECHANICAL CONNECTION TO THE RUNNER MAY BE USED. WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNER IS 8 INCHES OR LESS, THIS INTERLOCK IS NOT REQUIRED.

4. EXPANSION JOINTS, SEISMIC SEPARATION JOINTS, AND PENETRATIONS:

4.1 EXPANSION JOINTS SHALL BE PROVIDED IN THE CEILING AT INTERSECTIONS OF CORRIDORS AND AT JUNCTIONS OF CORRIDORS AND LOBBIES OR OTHER SIMILAR AREAS.
4.2 FOR CEILING AREAS EXCEEDING 2500 SQUARE FEET, A SEISMIC SEPARATION JOINT SHALL BE PROVIDED TO DIVIDE THE CEILING INTO AREAS NOT EXCEEDING 2500 SQUARE FEET. ALTERNATIVELY, COMPLY WITH ASTM E580, SECTION 5.2.9.
4.3 PENETRATIONS THROUGH THE CEILING FOR SPRINKLER HEADS AND OTHER SIMILAR DEVICES THAT ARE NOT INTEGRALLY TIED TO THE CEILING SYSTEM IN THE LATERAL DIRECTION SHALL HAVE A TWO (2) INCH OVERSIZED RING, SLEEVE OR ADAPTER THROUGH THE CEILING TILE TO ALLOW FREE MOVEMENT OF ONE (1) INCH IN ALL HORIZONTAL DIRECTIONS. ALTERNATIVELY, PER ASTM E580, SECTION 5.2.8.8, A FLEXIBLE SPRINKLER HOSE FITTING THAT CAN ACCOMMODATE 1 INCH OF CEILING MOVEMENT SHALL BE PERMITTED TO BE USED IN LIEU OF THE OVERSIZED RING, SLEEVE, OR ADAPTER.

5. LATERAL FORCE BRACING: LATERAL FORCE BRACING IS REQUIRED PER THIS SECTION FOR ALL CEILING AREAS. THE SPACING OF THE BRACING ASSEMBLIES MUST BE SHOWN ON THE CONSTRUCTION DOCUMENTS.

EXCEPTION: LATERAL FORCE BRACING MAY BE OMITTED FOR SUSPENDED ACOUSTICAL CEILING SYSTEMS WITH A CEILING AREA OF 144 SQUARE FEET OR LESS, AND FIRE RATED SUSPENDED ACOUSTICAL CEILING SYSTEMS WITH A CEILING AREA OF 96 SQUARE FEET OR LESS, WHEN PERIMETER SUPPORT, IN ACCORDANCE WITH ASTM E580 SECTIONS 5.2.2 AND 5.2.3, ARE PROVIDED AND PERIMETER WALLS ARE DESIGNED TO CARRY THE CEILING LATERAL FORCES.

5.1 PROVIDE LATERAL FORCE BRACING ASSEMBLIES CONSISTING OF A COMPRESSION STRUT AND FOUR (4) #12 GAGE SPLAYED BRACING WIRES ORIENTED 90 DEGREES FROM EACH OTHER.
5.2 LATERAL FORCE BRACING ASSEMBLIES SHALL BE SPACED AT A MAXIMUM OF 12 FEET BY 12 FEET ON CENTERS FOR SCHOOL BUILDINGS AND 8 FEET BY 12 FEET ON CENTERS FOR ESSENTIAL SERVICES BUILDINGS. THERE SHALL BE A BRACE ASSEMBLY A DISTANCE OF NOT MORE THAN ONE HALF OF THE ABOVE SPACING FROM EACH SURROUNDING WALL, EXPANSION JOINT AND AT THE EDGES OF ANY CEILING VERTICAL OFFSETS.
5.3 THE SLOPE OF BRACING WIRES SHALL NOT EXCEED 45 DEGREES FROM THE PLANE OF THE CEILING AND WIRES SHALL BE TAUT. SPLICES IN WIRES ARE NOT PERMITTED.
5.4 COMPRESSION STRUTS SHALL BE ADEQUATE TO RESIST THE VERTICAL COMPONENT INDUCED BY THE BRACING WIRES, AND SHALL NOT BE MORE THAN 1 (HORIZONTAL) IN 6 (VERTICAL) OUT OF PLUMB.

6. ATTACHMENT OF HANGER AND BRACING WIRES:

6.1 FASTEN #12 HANGER WIRES WITH NOT LESS THAN THREE (3) TIGHT TURNS IN 3 INCHES. HANGER WIRE LOOPS SHALL BE TIGHTLY WRAPPED AND SHARPLY BENT TO PREVENT ANY VERTICAL MOVEMENT OR ROTATION OF THE MEMBER WITHIN THE LOOPS (SEE ASTM E580, SECTION 5.2.7.2).
6.2 FASTEN #10 OR #12 BRACING WIRES WITH FOUR (4) TIGHT TURNS. MAKE ALL TIGHT TURNS WITHIN A DISTANCE OF 1-1/2 INCHES.
6.3 HANGER OR BRACING WIRE ANCHORED TO THE STRUCTURE SHOULD BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE ANCHOR ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE WIRE.
6.4 SEPARATE ALL CEILING HANGER AND BRACING WIRES AT LEAST SIX (6) INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUIT, ETC.
6.5 HANGER WIRES SHALL NOT ATTACH TO OR BEND AROUND INTERFERING MATERIAL OR EQUIPMENT. PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO TYPICAL HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS, OR DISCONTINUOUS AREAS.
6.6 HANGER WIRES THAT ARE MORE THAN 1 (HORIZONTAL) IN 6 (VERTICAL) OUT OF PLUMB SHALL HAVE COUNTER-SLOPING WIRES. PERIMETER HANGER WIRES AT MAIN RUNNERS THAT ARE POSITIVELY ATTACHED TO THE PERIMETER CLOSURE ANGLE; COUNTER-SLOPING IS OPTIONAL.
NOTE : SEE ASTM C-636 FOR COUNTER-SLOPING METHODS.
6.7 WHEN CONNECTION DETAILS DIFFER FROM THOSE IN THE ATTACHED FIGURES, ATTACHMENT OF BRACING WIRES TO THE STRUCTURE ABOVE AND TO THE MAIN RUNNERS SHALL BE ADEQUATE FOR THE LOAD IMPOSED. THE WEIGHT (WP) SHALL BE TAKEN AS NOT LESS THAN 4 PSF FOR CALCULATING SEISMIC FORCES (FP).
6.8 WHEN DRILLED-IN CONCRETE ANCHORS OR SHOT-IN ANCHORS ARE USED IN REINFORCED CONCRETE FOR HANGER WIRES, 1 OUT OF 10 WIRE/ANCHOR ASSEMBLIES MUST BE FIELD TESTED FOR 200 LBS. IN TENSION. WHEN DRILLED-IN CONCRETE ANCHORS ARE USED FOR BRACING WIRES, 1 OUT OF 2 WIRE/ANCHOR ASSEMBLIES MUST BE FIELD TESTED FOR 440 LBS. IN TENSION IN THE DIRECTION OF THE WIRE. SHOT-IN ANCHORS IN CONCRETE ARE NOT PERMITTED FOR BRACING WIRES.

NOTE: DRILLED-IN OR SHOT-IN ANCHORS REQUIRE APPROVAL PRIOR TO USE IN PRESTRESSED CONCRETE.

7. CEILING FIXTURES, TERMINALS, AND DEVICES: ALL FIXTURES, TERMINALS, AND OTHER DEVICES SHALL BE MOUNTED IN A MANNER THAT WILL NOT COMPROMISE CEILING PERFORMANCE IN ACCORDANCE WITH SECTION 13.5.6.2.2(5) OF ASCE 7-05 AS AMENDED BY 2016 CBC SECTION 1615A.1.16 (1615.10.13*) AND ASTM E580 SECTIONS 5.3 AND 5.4.

7.1 CEILING PANELS SHALL NOT SUPPORT ANY LIGHT FIXTURES, AIR TERMINALS OR DEVICES.
7.2 ATTACH ALL LIGHT FIXTURES, CEILING MOUNTED AIR TERMINALS, AND ALL OTHER DEVICES TO THE CEILING GRID RUNNERS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURES. SCREWS OR APPROVED FASTENERS ARE REQUIRED. A MINIMUM OF TWO ATTACHMENTS ARE REQUIRED AT EACH LIGHT FIXTURE, PER ASTM E580, SECTION 5.3.1.
7.3 RECESSED OR DROP-IN LIGHT FIXTURES, GRILLES, MECHANICAL TERMINALS, AND FLEXIBLE SPRINKLER HOSE FITTINGS OR OTHER SERVICES BE SUPPORTED DIRECTLY ON RUNNERS CLASSIFIED AS EACH HEAVY DUTY, BUT TIED THEY MUST ALSO HAVE A MINIMUM OF TWO (2) #12 GAGE SLACK SAFETY WIRES ATTACHED TO THE FIXTURE AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE.
7.4 ALL FLUSH OR RECESSED LIGHT FIXTURES, MECHANICAL TERMINALS, AND FLEXIBLE SPRINKLER HOSE FITTINGS OR OTHER SERVICES WEIGHING 56 LBS. OR MORE MUST BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR (4) TAUT #12 GAGE WIRES ATTACHED TO THE HOUSING AND TO THE STRUCTURE ABOVE. THE FOUR (4) TAUT #12 GAGE WIRES, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, MUST BE CAPABLE OF SUPPORTING FOUR (4) TIMES THE WEIGHT OF THE UNIT.
7.5 ALL 4 FT. X 4 FT. LIGHT FIXTURES MUST HAVE SLACK SAFETY WIRES AT EACH CORNER.
7.6 SURFACE-MOUNTED FIXTURES SHALL BE ATTACHED TO THE MAIN RUNNER WITH AT LEAST TWO POSITIVE CLAMPING DEVICES MADE OF MATERIAL WITH A MINIMUM #14 GAGE. ROTATIONAL SPRING CATCHES DO NOT COMPLY. A #12 GAGE SUSPENSION WIRE SHALL BE ATTACHED TO EACH CLAMPING DEVICE TO THE STRUCTURE ABOVE. PROVIDE ADDITIONAL SUPPORTS WHEN LIGHT FIXTURES ARE 8 FT. OR LONGER. MAXIMUM SPACING BETWEEN SUPPORTS SHALL NOT EXCEED 8 FEET.
7.7 SUPPORT PENDANT-MOUNTED LIGHT FIXTURES DIRECTLY FROM THE STRUCTURE ABOVE WITH HANGER WIRES OR CABLES PASSING THROUGH EACH PENDANT HANGER AND CAPABLE OF SUPPORTING TWO (2) TIMES THE WEIGHT OF THE FIXTURE.
IF THE PENDANT MOUNTED LIGHT FIXTURE IS NOT DIRECTLY AND INDEPENDENTLY BRACED BELOW THE CEILING, THEN A BRACING ASSEMBLY IS REQUIRED WHERE THE PENDANT HANGER PENETRATES THE CEILING. SPECIAL DETAILS ARE REQUIRED TO ATTACH THE PENDANT HANGER TO THE BRACING ASSEMBLY TO TRANSMIT HORIZONTAL FORCE. EXCEPTION: WHERE THE WEIGHT OF THE FIXTURE IS LESS THAN 20 POUNDS, THE COMPRESSION POST IS NOT REQUIRED.
7.8 ALL LIGHTWEIGHT MISCELLANEOUS DEVICES, SUCH AS STROBE LIGHTS, SPEAKERS, ETC., SHALL BE ATTACHED TO THE CEILING GRID PER SECTION 7.1 OF THIS IR. IN ADDITION, DEVICES WEIGHING MORE THAN 10 LBS SHALL HAVE A #12 SLACK SAFETY WIRE ANCHORED TO THE STRUCTURE ABOVE. DEVICES WEIGHING MORE THAN 20 LBS SHALL BE SUPPORTED FROM THE STRUCTURE ABOVE PER SECTION 7.3 OF THIS IR.

8. ADDITIONAL REQUIREMENTS:

8.1 FIRE RATED CEILINGS:
PROVIDE A DETAIL AND DESIGN NUMBER FOR RATED CEILING ASSEMBLIES FROM AN AUTHORIZED TESTING AGENCY. THE COMPONENTS AND INSTALLATION DETAILS MUST CONFORM IN EVERY RESPECT WITH THE LISTED DETAIL AND NUMBER. DETAILS SHALL CLEARLY DEPICT ALL COMPONENTS, INCLUDING INSULATION MATERIALS, FRAMING AND ATTACHMENT OF THE DESIGN SO THAT THE ASSEMBLY CAN BE CONSTRUCTED AND INSPECTED ACCORDINGLY.
POP RIVETS, SCREWS, OR OTHER ATTACHMENTS ARE NOT ACCEPTABLE UNLESS SPECIFICALLY DETAILED ON THE DRAWINGS AND APPROVED BY U.L. AND STATE FIRE MARSHAL (SFM) RECOGNIZED LABORATORIES.

8.2 METAL AND OTHER PANELS:
METAL PANELS AND PANELS WEIGHING MORE THAN 1/2 PSF, OTHER THAN MINERAL FIBER ACOUSTICAL TILE, ARE TO BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION RUNNERS.

8.3 ESSENTIAL SERVICES BUILDINGS:
EXITWAYS SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 13.5.6.2.2(1) OF ASCE 7-05 AS AMENDED BY 2010 CBC SECTION 1615A.1.16 (1615.10.13*). A MAIN OR CROSS RUNNER SHALL BE INSTALLED ON ALL SIDES OF EACH PIECE OF TILE, BOARD OR PANEL AND EACH LIGHT FIXTURE OR GRILL. SPLICES OR INTERSECTION OF SUCH RUNNERS SHALL BE ATTACHED WITH THROUGH CONNECTORS SUCH AS POP RIVETS, SCREWS, PINS, PLATES WITH END TABS OR OTHER APPROVED CONNECTORS.

8.4 SUSPENDED ACOUSTICAL CEILINGS BELOW GYPSUM BOARD CEILINGS:
WHERE GYPSUM BOARD OR OTHER CEILING FINISHES ARE ATTACHED TO THE FRAMING, SPECIFIC DETAILS WILL BE REQUIRED FOR THE VERTICAL HANGER WIRE AND LATERAL BRACING WIRE SUPPORT CONNECTIONS TO THE FRAMING.

9. RE-USE OF EXISTING CEILING HANGER WIRES AND BRACING WIRES:

9.1 THE GAGE AND SPACING OF THE WIRES MUST COMPLY WITH THE CURRENT APPLICABLE CODES.
9.2 ALL EXISTING CEILING HANGER WIRE/ANCHOR ASSEMBLIES MUST BE TESTED TO 200 LBS.
9.3 ALL EXISTING BRACING WIRE/ANCHOR ASSEMBLIES MUST BE FIELD TESTED TO 440 LBS.

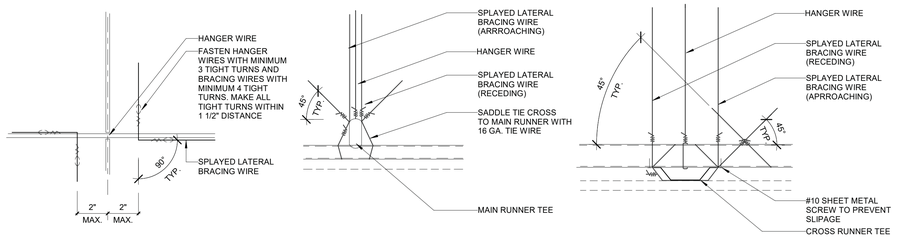
ALL NEW WIRES, AFTER BEING SPLICED TO THE EXISTING WIRES, MUST BE FIELD TESTED PER SECTIONS 9.2 AND 9.3 ABOVE. ALL FIELD TESTS MUST BE PERFORMED IN THE PRESENCE OF THE PROJECT INSPECTOR.

10. MODERNIZATION AND ALTERATION: THE ENTIRE CEILING SHALL BE UPGRADED TO MEET THE CURRENT REQUIREMENTS OF THE CBC IF ANY PORTION OF THE GRID SYSTEM IS CUT OR ALTERED.

EXCEPTION: THE REPLACEMENT OF EXISTING CEILING PANELS WITH PANELS OF THE SAME MATERIALS AND LIGHT FIXTURES OF THE SAME SIZE, LOCATIONS, AND WEIGHTS DOES NOT REQUIRE AN UPGRADE TO THE CEILING GRID AND SUSPENSION SYSTEM.

11. CONSTRUCTION DOCUMENTS: DRAWINGS AND SPECIFICATIONS SHALL CLEARLY IDENTIFY ALL SYSTEMS AND SHALL DEFINE OR SHOW ALL SUPPORTING DETAILS, LIGHTING FIXTURE ATTACHMENT, LATERAL FORCE BRACING, PARTITION BRACING, SEISMIC SEPARATIONS, ETC. WHERE DIFFERENCES OCCUR BETWEEN PROVISIONS OF THIS IR AND THE CBC, THE PROVISIONS OF THE CBC SHALL APPLY.
A LIST OF ACCEPTABLE GRID SYSTEMS MUST BE SHOWN ON THE DRAWINGS. THE GRID SYSTEMS SPECIFIED SHALL HAVE VALID EVALUATION REPORTS. THE FOLLOWING INFORMATION SHALL BE INCLUDED ON THE DRAWINGS FOR EACH ACCEPTABLE GRID SYSTEM SPECIFIED:
CLASSIFICATION OF CEILING GRID IS HEAVY DUTY.
MANUFACTURER'S CATALOG NUMBER - MAIN RUNNER (1) (2) .
MANUFACTURER'S CATALOG NUMBER - CROSS RUNNER (2) (3) .
MANUFACTURER'S CATALOG NUMBER OF DETAIL FOR RUNNER SPLICE (2) .

NOTES: (1) MAIN RUNNERS MUST BE RATED AS HEAVY DUTY.
(2) SHOW MANUFACTURER, DUTY CLASSIFICATION AND CATALOG NUMBERS.
(3) IF A CROSS RUNNER SUPPORTS LIGHT FIXTURES, AIR TERMINALS, OR OTHER CROSS RUNNERS, IT SHALL BE CONSIDERED A MAIN RUNNER FOR THE PURPOSE OF STRUCTURAL CLASSIFICATION.



A. PLAN — B. SECTION THRU MAIN RUNNER TEE — C. SECTION THRU CROSS RUNNER TEE

7 A7.73 NON DSA TYPICAL HANGER AND BRACING WIRE DETAILS FOR SUSPENDED GYPSUM CEILINGS
3" = 1'-0"

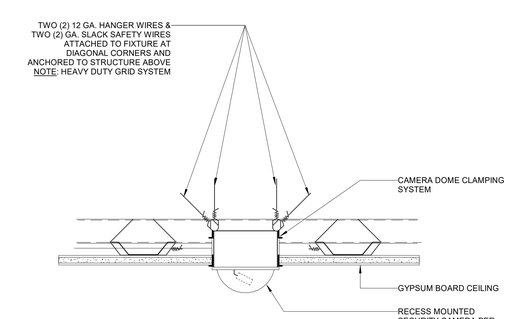
Alternative Materials

The USG Donn Brand compression post is an engineered solution designed to work with USG Donn Brand Suspension Systems when required by code. The USG Donn Brand compression post is an option for almost every project, however it is not necessary to use the USG Donn Brand compression post when installing USG Donn Brand Suspension Systems. Any steel member with sufficient strength is allowed by code and may be suitable for use as a compression post. Below are some common, light gauge steel members provided by others that are typically used as alternates for compression posts and their typical associated allowable lengths.

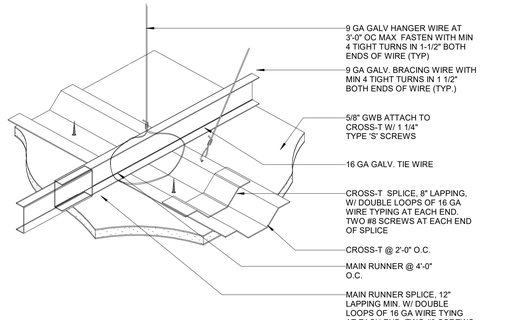
Alternative Material	Typical Allowable Length	Alternative Material	Typical Allowable Length
1-3/16" x 1-3/16" Stud 19 GA	24"	3-5/8" x 1-1/4" 18GA Stud [3625125-43]	84"
1-1/2" x 9/16" x 0.059" Channel	33"	1-1/4" x 1-1/4" Strut 14 GA	84"
[2] 3/4" x 1.0" x 0.059" Channel, Back to Back	39"	3-5/8" x 1-1/4" 20GA Stud [3625125-30]	85"
[2] 1-1/2" x 9/16" x 0.059" Channel, Back to Back	44"	2-1/2" x 1-1/4" 25GA Stud [3525125-18]	87"
1.0" Diameter EMT Conduit, 0.042" Wall Thickness	47"	1580TS 1-5/8" x 1-1/4" x 0.019" Channel	90"
3/4" x 1.0" x 0.059" Channel	47"	1-3/8" x 1-5/8" Strut 12 GA	96"
1-3/16" x 1-5/8" Strut 12 GA	48"	1-1/4" x 1-1/2" Strut 14 GA	96"
1-3/16" x 1-5/8" Strut 14 GA	48"	1-5/8" x 1-3/8" Strut 12 GA	96"
1-1/4" x 3/4" Strut 14 GA	48"	1-1/4" Diameter EMT Conduit, 0.065" Wall Thickness	102"
1-1/4" x 5/8" Strut 19 GA	48"	1-5/8" x 1-5/8" Strut 14 GA	108"
1-5/8" x 1 3/16" Strut 14 GA	48"	1-5/8" x 1-5/8" Strut 12 GA	108"
1-5/8" x 1 3/16" Strut 12 GA	48"	1-1/2" Diameter EMT Conduit, 0.065" Wall Thickness	118"
1 3/16" x 1 3/16" Strut 19 GA	54"	3-1/4" x 1-5/8" Strut 12 GA	120"
1" x 1-5/8" Strut 12 GA	60"	2-7/16" x 1-5/8" Strut 12 GA	120"
1-5/8" x 7/8" Strut 12 GA	60"	1-5/8" x 1-5/8" Strut 16 GA	120"
1-5/8" x 1 3/16" Strut 16 GA	60"	1-5/8" x 3-1/4" Strut 12 GA	120"
1-5/8" x 1" Strut 12 GA	60"	1-5/8" x 2-7/16" Strut 12 GA	120"
3/4" Diameter EMT Conduit, 0.049" Wall Thickness	61"	[2] 1580TS 1-5/8" x 1-1/4" x 0.019" Channel, Back to Back	130"
1" Diameter EMT Conduit, 0.057" Wall Thickness	78"	2" Diameter EMT Conduit, 0.065" Wall Thickness	150"
3-5/8" x 1-1/4" 16GA Stud [3625125-54]	82"		

Notes
1. The information provided is for quick reference only. Other restrictions and exemptions may apply.
2. All studs and allowable lengths should be verified by a design professional before use.
3. Wind loads may exceed seismic loads. The distances above may not be suitable for exterior use.
4. Wall molding should not be used as a stud.
5. A structural engineer should be consulted for lengths greater than 14ft.

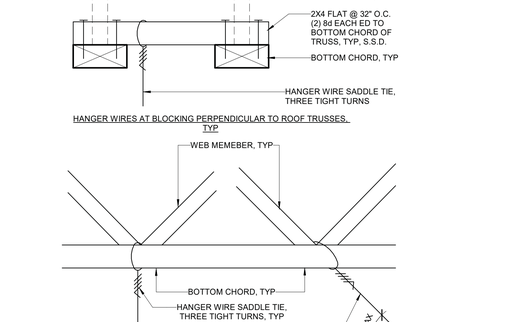
3 A7.73 USG TECHNICAL GUIDE #SC2497 FOR COMPRESSION STRUTS
3" = 1'-0"



9 A7.73 NON DSA RECESS MOUNTED SECURITY CAMERA
3" = 1'-0"

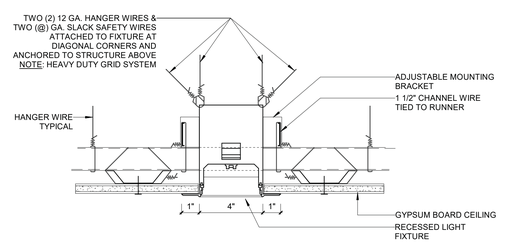


6 A7.73 NON DSA CEILING DETAIL - SUSPENDED GYP BD
3" = 1'-0"

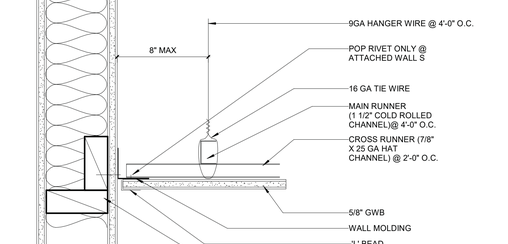


HANGER WIRES AT ROOF TRUSS, TYP

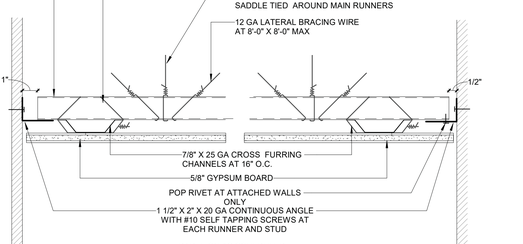
2 A7.73 NON DSA TYPICAL DETAIL - WIRE CONNECTIONS TO STRUCT FRAMING
3" = 1'-0"



8 A7.73 NON DSA ENLARGED SECTION DETAIL - RECESSED LIGHT FIXTURE AT GYP CEILING
3" = 1'-0"



5 A7.73 NON DSA CEILING DETAIL - GYP BD AT WALL
3" = 1'-0"



1 A7.73 NON DSA TYPICAL SEISMIC BRACED GYB BD. CEILING SECTION
3" = 1'-0"

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REFRIGERATION: HAWKINGS ENGINEERING, 1813 Springfield Road, Moss Landing, CA 95039, T: 831-761-7400, Contact: Scott A. Hawkins, E-MAIL: scott@hawkinsengineering.net
STRUCTURAL: PACIFIC ENGINEERING GROUP, 9699 Blue Larkspur Lane, Ste. 104, Monterey, CA 93940, https://hawkinsengineering.net, T: 831.333.0644, Contact: Arthur J. Werner, E-Mail: ajw.pegi0940@gmail.com
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HIPPO HARVEST
HOLLISTER, CA
2370 SHORE ROAD
HOLLISTER, CA 95023
REF. PLAN CHECK # XXXXX

FOR REFERENCE ONLY

NAME:
LICENSE NUMBER:
SIGNATURE DATE:

ISSUE DATE:	JUNE 27, 2025
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TIME STAMP:	6/29/2025 2:52:02 PM
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BID SET #1 - ADDENDUM 2
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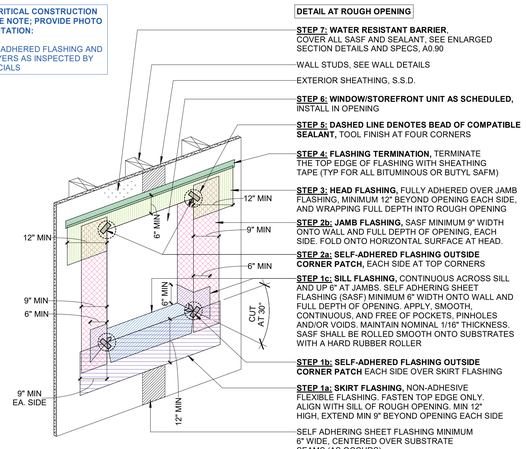
DESIGN CRITICAL CONSTRUCTION SEQUENCE NOTE; PROVIDE PHOTO DOCUMENTATION:

FOR SELF ADHERED FLASHING AND W.R.B. LAYERS AS INSPECTED BY CITY OFFICIALS



DETAIL AT ROUGH OPENING

STEP 7: WATER RESISTANT BARRIER, COVER ALL SASF AND SEALANT, SEE ENLARGED SECTION DETAILS AND SPECS, A0.90

WALL STUDS, SEE WALL DETAILS

EXTERIOR SHEATHING, S.S.D.

STEP 6: WINDOW/STOREFRONT UNIT AS SCHEDULED, INSTALL IN OPENING

STEP 5: DASHED LINE DENOTES BEAD OF COMPATIBLE SEALANT, TOOL FINISH AT FOUR CORNERS

STEP 4: FLASHING TERMINATION, TERMINATE THE TOP EDGE OF FLASHING WITH SHEATHING TAPE (TYP FOR ALL BITUMINOUS OR BUTYL SAFM)

STEP 3: HEAD FLASHING, FULLY ADHERED OVER JAMB FLASHING, MINIMUM 12" BEYOND OPENING EACH SIDE, AND WRAPPING FULL DEPTH INTO ROUGH OPENING

STEP 2b: JAMB FLASHING, SASF MINIMUM 9" WIDTH ONTO WALL AND FULL DEPTH OF OPENING, EACH SIDE. FOLD ONTO HORIZONTAL SURFACE AT HEAD.

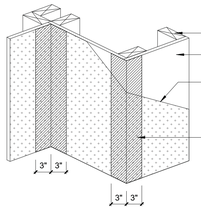
STEP 2a: SELF-ADHERED FLASHING OUTSIDE CORNER PATCH, EACH SIDE AT TOP CORNERS

STEP 1c: SILL FLASHING, CONTINUOUS ACROSS SILL AND UP 6" AT JAMBS. SELF ADHERING SHEET FLASHING (SASF) MINIMUM 6" WIDTH ONTO WALL AND FULL DEPTH OF OPENING. APPLY, SMOOTH, CONTINUOUS, AND FREE OF POCKETS, PINHOLES AND/OR VOIDS. MAINTAIN NOMINAL 1/16" THICKNESS. SASF SHALL BE ROLLED SMOOTH ONTO SUBSTRATES WITH A HARD RUBBER ROLLER

STEP 1b: SELF-ADHERED FLASHING OUTSIDE CORNER PATCH EACH SIDE OVER SKIRT FLASHING

STEP 1a: SKIRT FLASHING, NON-ADHESIVE FLEXIBLE FLASHING. FASTEN TOP EDGE ONLY. ALIGN WITH SILL OF ROUGH OPENING. MIN 12" HIGH, EXTEND MIN 9" BEYOND OPENING EACH SIDE

SELF ADHERING SHEET FLASHING MINIMUM 6" WIDE, CENTERED OVER SUBSTRATE SEAMS (AS OCCURS)



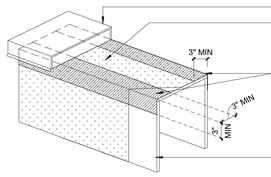
DETAIL AT BUILDING CORNERS

WALL STUDS, SEE WALL DETAILS

EXTERIOR SHEATHING, S.S.D.

WATER RESISTANT BARRIER OVER ENTIRE FACE OF SHEATHING AND OVER THE SASF. SEE SPECS, A0.90

SELF ADHERING SHEET FLASHING (SASF) MINIMUM 3" WIDTH ONTO EACH WALL, FULL HEIGHT OF WALL, AT INSIDE AND OUTSIDE BUILDING CORNERS. APPLY SMOOTH, CONTINUOUS, AND FREE OF POCKETS, PINHOLES AND/OR VOIDS. MAINTAIN NOMINAL 1/16" THICKNESS.



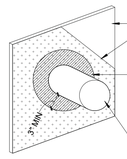
DETAIL AT PARAPET - ROOF TO WALL

COPING, SEE PARAPET DETAILS

WATER RESISTANT BARRIER OVER THE SASF, SEE SPECS, A0.90

SELF ADHERING SHEET FLASHING (SAFS) MINIMUM 3" WIDTH OVERLAP ON TOP OF PARAPET AND VERTICAL FACE OF WALL, AT EACH SIDE. APPLY SMOOTH, CONTINUOUS, AND FREE OF POCKETS, PINHOLES AND/OR VOIDS. MAINTAIN NOMINAL 1/16" THICKNESS.

EXTERIOR SHEATHING, S.S.D.



DETAIL AT PENETRATIONS

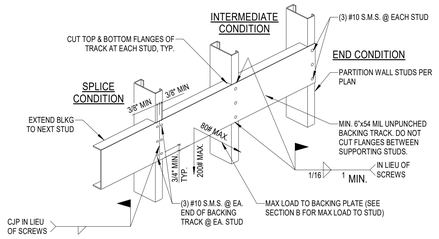
EXTERIOR SHEATHING, S.S.D.

WATER RESISTANT BARRIER OVER ENTIRE FACE OF SHEATHING AND AROUND PERIMETER OF PENETRATION, OVER THE SASF. SEE SPECS, A0.90

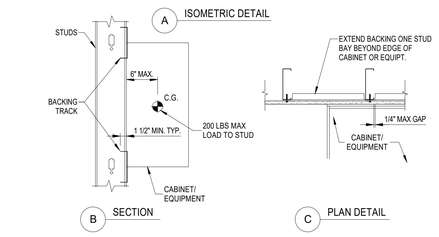
SELF ADHERING SHEET FLASHING (SASF) MINIMUM 3" WIDE AROUND PENETRATION. USE BACKER ROD OR POLYURETHANE SPRAY FOAM WHERE NECESSARY. APPLY SMOOTH, CONTINUOUS, AND FREE OF POCKETS, PINHOLES AND/OR VOIDS. MAINTAIN NOMINAL 1/16" THICKNESS.

PENETRATION AS OCCURS

5 A7.94 SELF ADHERED SHEET FLASHING DETAILS
1" = 1'-0"



A ISOMETRIC DETAIL

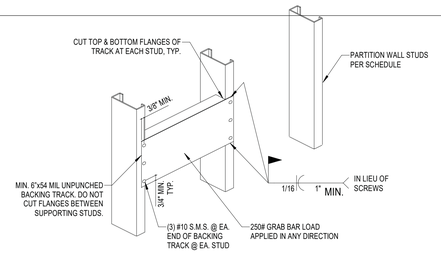


B SECTION

C PLAN DETAIL

NOTES :
1. BACKING, CONNECTION TO STUD, AND STUDS FOR CABINETS OR EQUIPMENT EXCEEDING THIS LIMIT SHALL BE DESIGNED AND DETAILED BY PROJECT ENGINEER.
2. NOTCHING OR CUTTING OF BACKING PLATE IS NOT PERMITTED EXCEPT AS SHOWN

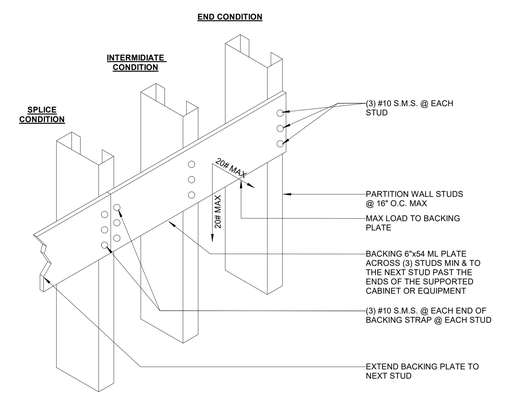
4 A7.94 BACKING PLATE DETAIL TYPE 1
1" = 1'-0"



A ISOMETRIC DETAIL

NOTES:
1. NOTCHING OR CUTTING OF BACKING PLATE IS NOT PERMITTED EXCEPT AS SHOWN.

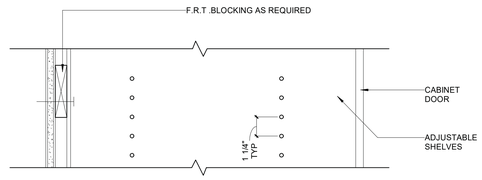
3 A7.94 BACKING PLATE DETAIL FOR GRAB BAR
1" = 1'-0"

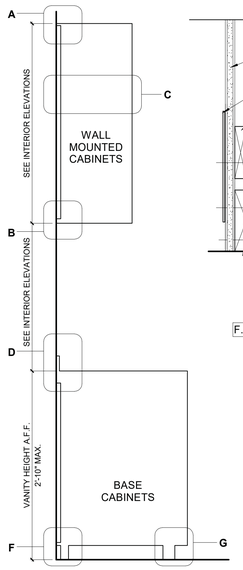


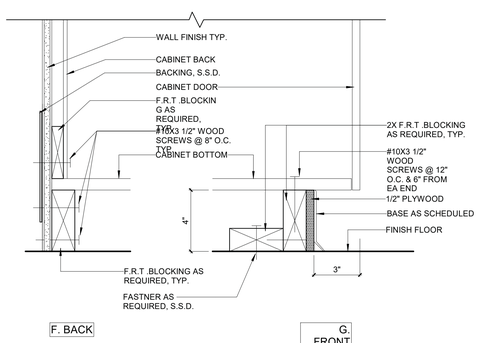
BACKING PLATE DETAIL

NOTES:
1. THIS DETAIL MAY BE USED FOR ATTACHMENT OF CABINETS OR EQUIPMENT DISTRIBUTING LESS THAN 2# PER STUD (CENTER OF GRAVITY LESS THAN 6" FROM FACE OF STUD).
2. NOTCHING OR CUTTING OF BACKING PLATE IS NOT PERMITTED

2 A7.94 STRUCTURAL DETAIL - BACKING PLATE
6" = 1'-0"

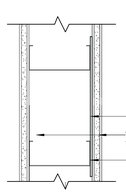




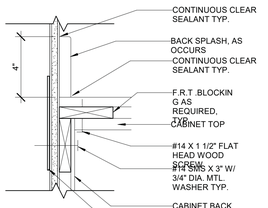


F. BACK

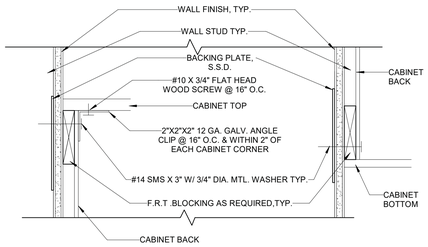
G. FRONT



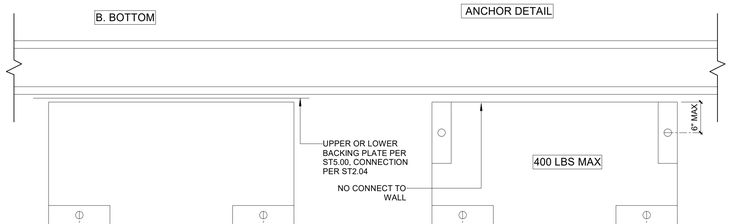
E. PLAN VIEW



D. TOP



A. TOP



B. BOTTOM

MIN (2) ANCHORS PER CABINET OR EQUIPMENT UNIT

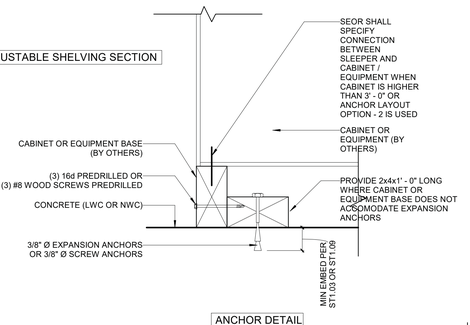
ANCHOR LAYOUT OPTION - 1

MIN (4) ANCHORS PER CABINET OR EQUIPMENT UNIT

ANCHOR LAYOUT OPTION - 2

NOTE
1. SEE ST1.03 & ST1.04 FOR EXPANSION ANCHOR REQUIREMENTS, AND SEE ST1.09 & ST1.10 FOR SCREW ANCHOR REQUIREMENTS.

C. ADJUSTABLE SHELVING SECTION



ANCHOR DETAIL

NOTE:
SEE INTERIOR ELEVATIONS FOR MOUNTING HEIGHT. INSTALL F.R.T. BLOCKING AT CASEWORK ATTACHMENT LOCATIONS.

1 A7.94 MILLWORK ANCHOR DETAIL - METAL FRAMING
3" = 1'-0"

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ELEC.: CENTRAL PACIFIC ENGINEERING., INC., P.O. BOX. 1727, Capitola CA 95010, www.cpeinc.com, T: 831.476.1525, Contact: David Smith, E-Mail: David@CPEinc.com
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STRUCTURAL: PACIFIC ENGINEERING GROUP, 9699 Blue Larkspur Lane, Ste. 104, Monterey, CA 93940, https://hawkinsengineering.net, T: 831.333.0644, Contact: Arthur J. Werner, E-Mail: ajw.pegi0940@gmail.com
PRE-FAB BLDG: STEEL SOLUTIONS, INC., P.O. Box 2566, Hollster, CA 95024, www.steelsi.com, T: 831-901-4059, Contact: Royce Bowles, E-Mail: Royce@steelsi.com

HIPPO HARVEST
HOLLISTER, CA
2370 SHORE ROAD
HOLLISTER, CA 95023
REF. PLAN CHECK # XXXXX

FOR REFERENCE ONLY

NAME:
LICENSE NUMBER:
SIGNATURE DATE:

ISSUE DATE:	JUNE 27, 2025
PROJ #:	25.003
TIME STAMP:	6/29/2025 2:52:04 PM
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REVISIONS

#	DATE	ISSUE
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SHEET TITLE :

TYP. DETAILS - MISC

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THIS SHEET IS INTENDED TO BE VIEWED IN COLOR

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A7.94
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FOR BIDDING ONLY - NOT FOR CONSTRUCTION

BID SET #1 - ADDENDUM 2

Fixed Steel Ladders

SERIES "F" & SERIES "M"

COTTERMAN® FIXED STEEL LADDERS are designed for use where safe, solid vertical climbing access is required. Series F and Series M modular fixed steel ladders are available with and without walk-thru handrails at the top landing surface. Standard fixed and walk-thru models can be used up to 24' without safety cages. OSHA requires safety cages on ladder heights exceeding 24'. Separate cages are offered for updating older ladders to current safety standards. All Cotterman® fixed ladders meet applicable OSHA and ANSI standards.

SERIES F FIXED LADDERS: Ladders are heavy duty welded assemblies

SERIES M MODULAR FIXED LADDERS: Ladders are heavy duty sub-assemblies, no section is greater than 7' in length.

CONSTRUCTION FEATURES:
- **Side members are ½"x2"x2" steel angle. Climbing rungs are ¾" corrugated steel round rungs space on 12" centers. Stand-off brackets are 7".**

FIXED LADDER WITH WALK-THRU HANDRAILS: Ladders are designed for applications where safe landing access is required. They are one-piece welded assemblies for use in applications less than 20' in vertical height.

CONSTRUCTION FEATURES:
- **Side members are ½"x2"x2" steel angle. ¾" corrugated steel round climbing rungs on 12" centers. Stand-off mounting brackets are 7".**
- **Walk-thru handrails extend 42" above landing surface. Mounting brackets included.**
- **Welded one-piece.**

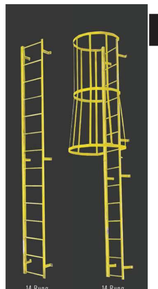
FIXED LADDERS WITH SAFETY CAGES: Standard fixed steel ladders are combined with safety cage protection. Available in 10' through 29' sizes and ideal for hatch-way or side-step landing access.

CAGE FEATURES:
- **Cages have flared bottom opening for easy entry.**
- **Left or right side step access cage designs are available at no charge.**
- **Cage begins 7' from bottom of ladder.**

FIXED LADDER WITH WALK-THRU HANDRAILS AND SAFETY CAGES: Designed for safe landing access and available from 10' to 29'. Cages and walk-thru handrails extend 42" above landing surface.

CAGE FEATURES:
- **Cages have flared bottom opening for easy entry.**
- **Cages begin 7' from bottom of ladder.**

All: gray powder coat finish, yellow also available.



FIXED LADDERS

Fixed Ladders - SERIES F & SERIES M MODEL NUMBERS & MEASUREMENTS

MADE IN U.S.A.

LENGTH-TOP TO BOTTOM RUNG	NO. RUNGS	STANDARD		WITH CAGE			OVERALL LENGTH	WALK THRU RAIL			WITH WALK THRU & CAGE			OVERALL LENGTH
		SERIES "F" MODEL NUMBER	SHIPPING WEIGHT LBS.	SERIES "F" MODEL NUMBER	SERIES "M" MODEL NUMBER	SHIPPING WEIGHT LBS.		SERIES "F" MODEL NUMBER	SERIES "M" MODEL NUMBER	SHIPPING WEIGHT LBS.	SERIES "F" MODEL NUMBER	SERIES "M" MODEL NUMBER	SHIPPING WEIGHT LBS.	
3'	4	F4S	35				3'3"	F4W	M4W	61				6'8"
4'	5	F5S	43				4'3"	F5W	M5W	70				7'8"
5'	6	F6S	52				5'3"	F6W	M6W	78				8'8"
6'	7	F7S	60				6'3"	F7W	M7W	87				9'8"
7'	8	F8S	66				7'3"	F8W	M8W	95	F8WC	-	167	10'8"
8'	9	F9S	77				8'3"	F9W	M9W	104	F9WC	-	194	11'8"
9'	10	F10S	88				9'3"	F10W	M10W	115	F10WC	-	211	12'8"
10'	11	F11S	96	F11SC	M11SC	156	10'3"	F11W	M11W	123	F11WC	M11WC	226	13'8"
11'	12	F12S	105	F12SC	M12SC	182	11'3"	F12W	M12W	130	F12WC	M12WC	242	14'8"
12'	13	F13S	113	F13SC	M13SC	197	12'3"	F13W	M13W	140	F13WC	M13WC	268	15'8"
13'	14	F14S	122	F14SC	M14SC	213	13'3"	F14W	M14W	148	F14WC	M14WC	284	16'8"
14'	15	F15S	130	F15SC	M15SC	268	14'3"	F15W	M15W	157	F15WC	M15WC	327	17'8"
15'	16	F16S	139	F16SC	M16SC	282	15'3"	F16W	M16W	165	F16WC	M16WC	353	18'8"
16'	17	F17S	150	F17SC	M17SC	298	16'3"	F17W	M17W	176	F17WC	M17WC	369	19'8"
17'	18	F18S	158	F18SC	M18SC	316	17'3"	F18W	M18W	185	F18WC	M18WC	384	20'8"
18'	19	F19S	167	F19SC	M19SC	342	18'3"	F19W	M19W	193	F19WC	M19WC	401	21'8"
19'	20	F20S	175	F20SC	M20SC	357	19'3"	F20W	M20W	202	F20WC	M20WC	428	22'8"
20'	21			F21SC	M21SC	373	20'3"	-	-	-	F21WC	M21WC	443	23'8"
21'	22			F22SC	M22SC	388	21'3"	-	-	-	F22WC	M22WC	458	24'8"
22'	23			F23SC	M23SC	414	22'3"	-	-	-	F23WC	M23WC	485	25'8"
23'	24			F24SC	M24SC	429	23'3"	-	-	-	F24WC	M24WC	500	26'8"
24'	25			F25SC	M25SC	444	24'3"	-	-	-	F25WC	M25WC	515	27'8"
25'	26			F26SC	M26SC	471	25'3"	-	-	-	F26WC	M26WC	571	28'8"
26'	27			F27SC	M27SC	486	26'3"	-	-	-	F27WC	M27WC	586	29'8"
27'	28			F28SC	M28SC	501	27'3"	-	-	-	F28WC	M28WC	601	30'8"
28'	29			F29SC	M29SC	559	28'3"	-	-	-	F29WC	M29WC	619	31'8"
29'	30			F30SC	M30SC	575	29'3"	-	-	-	F30WC	M30WC	634	32'8"

SHIPPING NOTE: All 15 thru 20 rung Series "F" models with cages ship in 2 sections. All 29 and 30 rung models ship in 3 sections.

Hot Dip Galvanized finish or Stainless Steel construction can be quoted.
SHIPPING NOTE: All 15 thru 25 rung Series "F" models with cages and walk thru handrails ship in 2 sections. All 26 and 30 rung models ship in 3 sections.

ACCESSORIES

Cotterman® fixed steel ladder accessories are designed to provide an additional measure of safety or security for any fixed steel ladder.



SP Standoff Landing Platform

Standoff landing platforms used with offset caged ladders. These rugged, pre-engineered platforms are constructed with left or right entries as required.

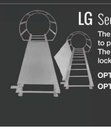
OPTION SP shipping weight 153 lbs.



CG Security Cage EntryGate

The cage security gate is designed to prevent unauthorized entry into the bottom of the ladder cage. Doors have lockable hasp.

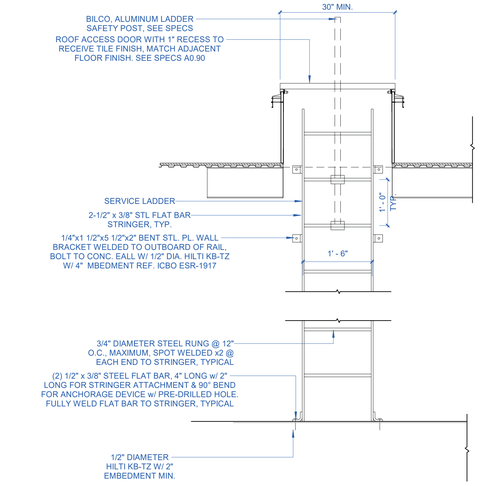
OPTION CG shipping weight 31 lbs.

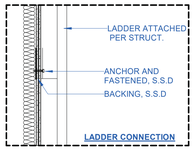


LG Security Ladder Guard

The ladder guard is mounted directly over the ladder climbing rungs to prevent unauthorized use. It is available in either 6' or 8' lengths. The guard has a one-piece piano hinge, and is furnished with lock-open and lock-closed hasps.

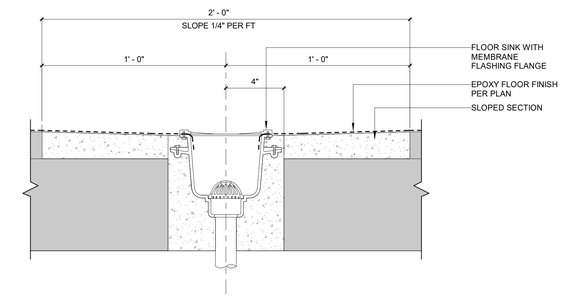
OPTION LG-6 shipping weight 130 lbs.
OPTION LG-8 shipping weight 148 lbs.



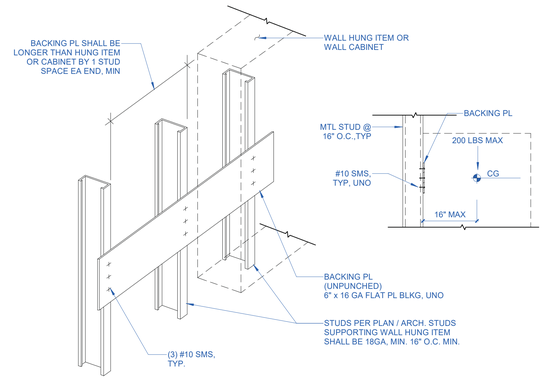


NOTES
(E) CONCRETE WALLS & FLOOR; COORDINATE TRAP DOOR TO ALIGN TO (N) FINISHES

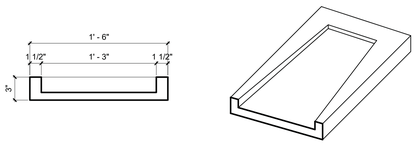
6 A7.95 ROOF ACCESS LADDER DETAIL
3/4" = 1'-0"

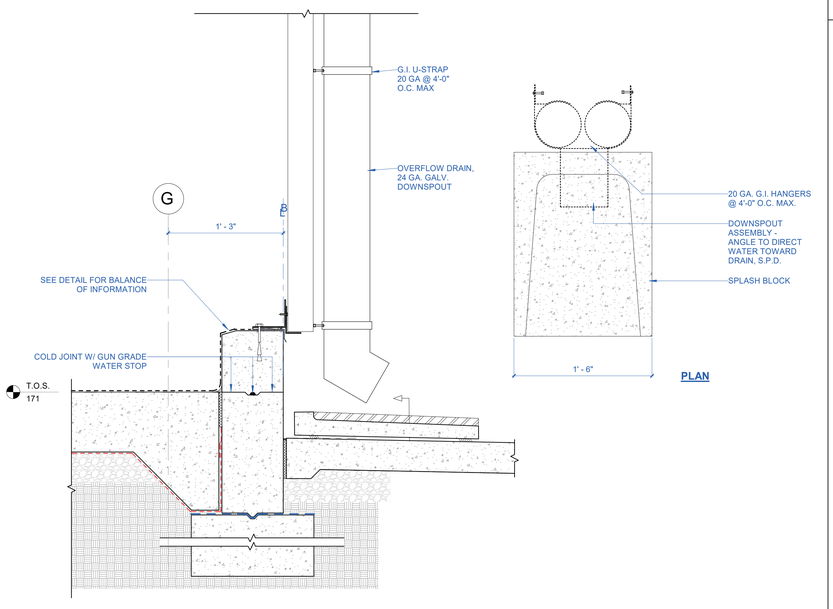


3 A7.95 FLOOR DETAIL - TYPICAL FLOOR SINK
3" = 1'-0"



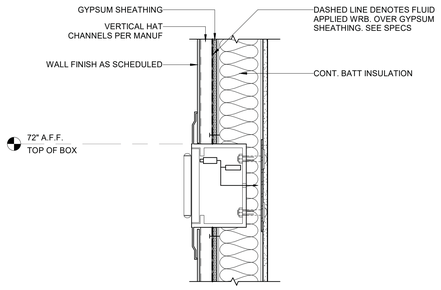
2 A7.95 TYPICAL DETAIL - FLAT BACKING PLATE
1/2" = 1'-0"



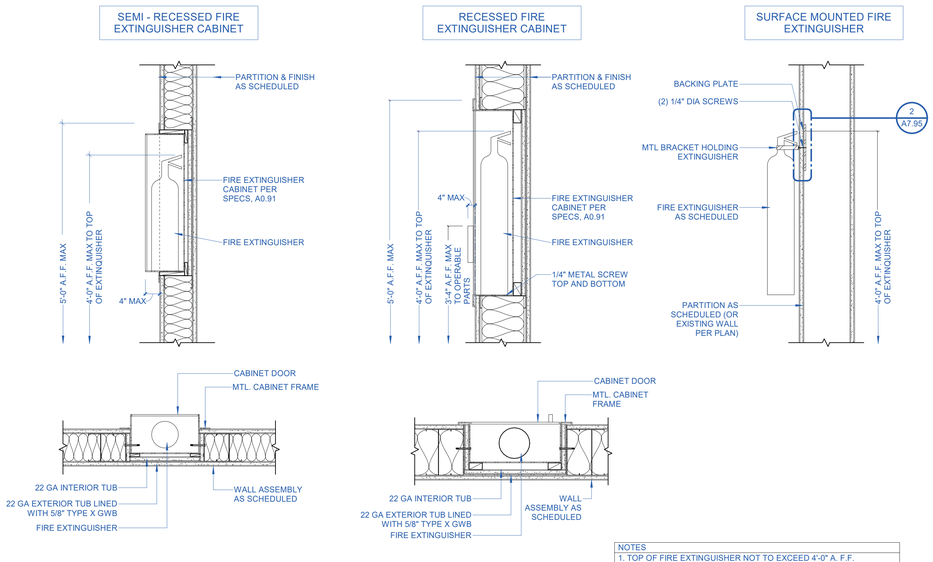


NOTE: SEE TYPICAL FLASHING DETAILS AT PENETRATION

5 A7.95 ENLARGED EXTERIOR SECTION DETAIL - DOWNSPOUT @ SPLASH BLOCK
1 1/2" = 1'-0"



4 A7.95 RECESSED KNOX BOX
1 1/2" = 1'-0"



1 A7.95 INTERIOR DETAIL - RECESSED FIRE EXTINGUISHER
1 1/2" = 1'-0"

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ELEC: CENTRAL PACIFIC ENGINEERING., INC., P.O. BOX. 1727, Capitola CA 95010, www.cpeinc.com, T: 831.476.1525, Contact: David Sivil, E-Mail: David@CPEInc.com
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LANDSCAPE & IRRIGATION: KAREN AITKEN & ASSOC., 8262 Rancho Real, Gilroy, CA 95020, www.karenaitkenassociates.com, T: 408.842.0245, Contact: Pam Jones, E-Mail: pam@kaa design.com
REFRIGERATION: HAWKINGS ENGINEERING, 1813 Springfield Road, Moss Landing, CA 95039, T: 831-761-7400, Contact: Scott A. Hawkins, E-MAIL: scott@hawkinsengineering.net
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ISSUE DATE:	JUNE 27, 2025
PROJ #:	25.003
TIME STAMP:	6/29/2025 2:52:05 PM
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REVISION HISTORY					
REV	DESCRIPTION	ECN	DATE	BY	APPROVED
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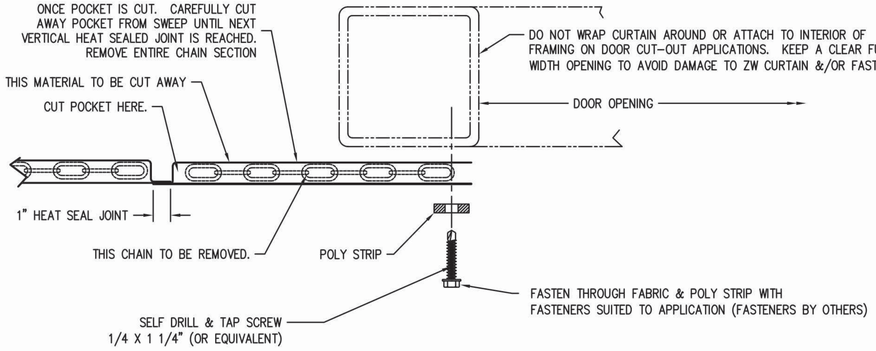
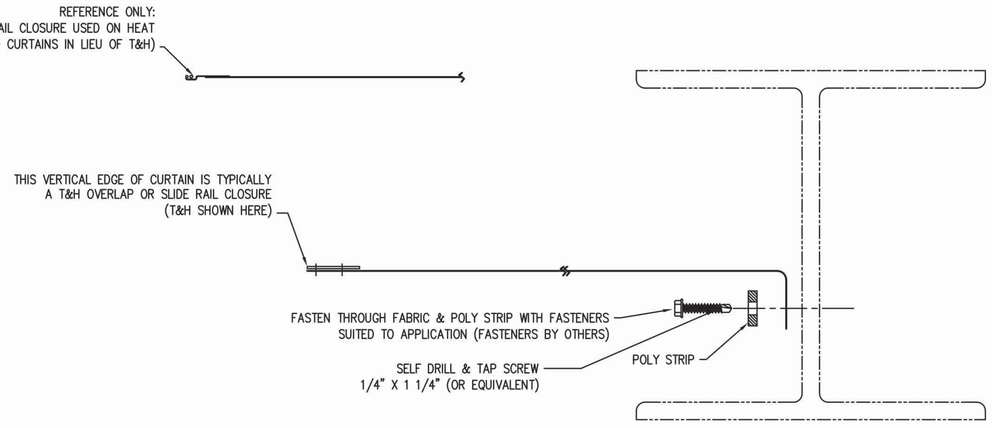


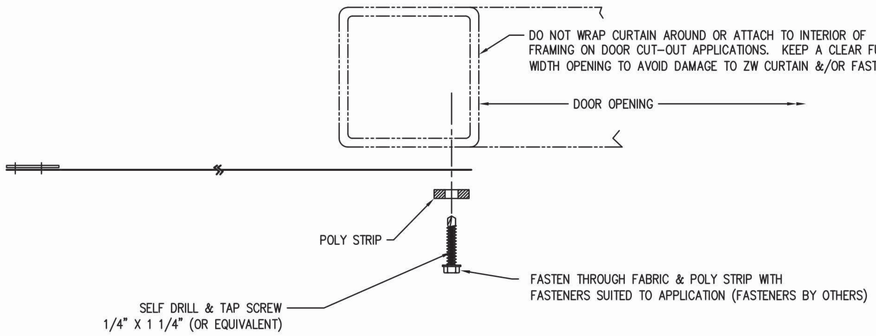
SECTION THRU PLAN – SCW DETAIL

DETAIL – ATTACHING FIELD TRIMMED CURTAIN EDGE TO DOOR FRAME



SECTION THRU PLAN

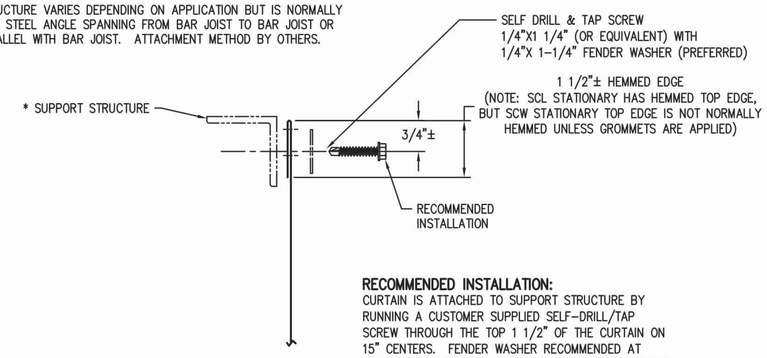
DETAIL – ATTACHING FIELD TRIMMED CURTAIN EDGE TO BEAM OR WALL



SECTION THRU PLAN – SCL DETAIL

DETAIL – ATTACHING FIELD TRIMMED CURTAIN EDGE TO DOOR FRAME

*NOTE:
SUPPORT STRUCTURE VARIES DEPENDING ON APPLICATION BUT IS NORMALLY A GALVANIZED STEEL ANGLE SPANNING FROM BAR JOIST TO BAR JOIST OR RUNNING PARALLEL WITH BAR JOIST. ATTACHMENT METHOD BY OTHERS.



RECOMMENDED INSTALLATION:
CURTAIN IS ATTACHED TO SUPPORT STRUCTURE BY RUNNING A CUSTOMER SUPPLIED SELF-DRILL/TAP SCREW THROUGH THE TOP 1 1/2" OF THE CURTAIN ON 15" CENTERS. FENDER WASHER RECOMMENDED AT EACH SCREW LOCATION. (NO PRE-PUNCHING REQUIRED)

T&H = TOUCH AND HOLD

SECTION THRU ELEVATION

DETAIL – TOP EDGE CURTAIN ATTACHMENT TO SUPPORT STRUCTURE

WARNING:
UNDER NO CIRCUMSTANCES SHOULD ROOF DECK BE PENETRATED WITH FASTENERS WHEN HANGING CURTAINS, FILLER CURTAINS, MOUNTING STEEL, ETC..

APPLICATION NOTE:
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ITEM	QTY	PART NO.	DESCRIPTION
PARTS LIST / MATERIAL			

INCH TOLERANCES		
OVER	UP TO	+/-
0	0.125	0.005
0.125	0.25	0.010
0.25	1.25	0.020
1.25	5	0.030
5	15	0.040
15	40	0.060
40	80	0.100
80	–	0.125
ANGLES	+/- 1 DEG	
FINISH	NONE	

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DRAWN BY: DJH DATE: 1/5/10

CHECKED BY: DATE:

APPROVED BY: DATE:

INITIAL ECN:

DATE ISSUED:

REF:

ZONEWORKS

TITLE: INSTALLATION DETAIL, SCL CURTAIN FIELD TRIMMING, DOOR CUT-OUTS, HANGING & TERMINATING AT WALL OR BEAM

SIZE	MODEL NUMBER	DWG NO	REV
D	SCL	A7780048	A
SCALE 1/8"=1'	PART #	SHEET 1 of 1	

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A7780033

1 OF 1 A

REVISION HISTORY					
REV	DESCRIPTION	ECN	DATE	BY	APPROVED
A	ADDED CUT-OUT SUGGESTIONS	–	03/30/09	DJH	

WARNING:
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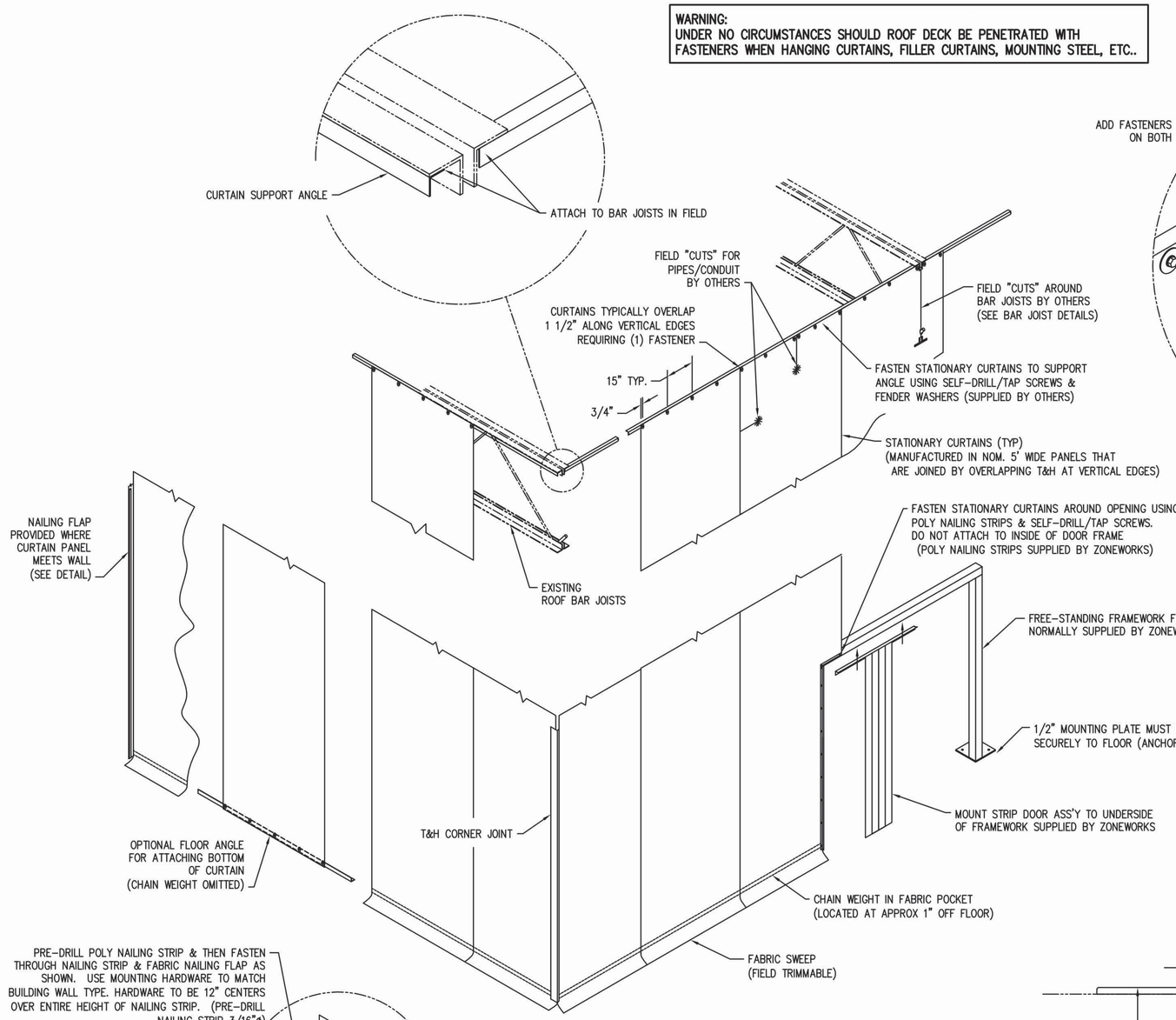
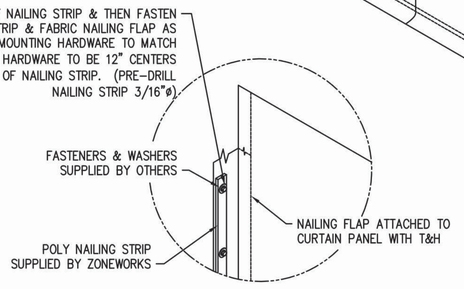
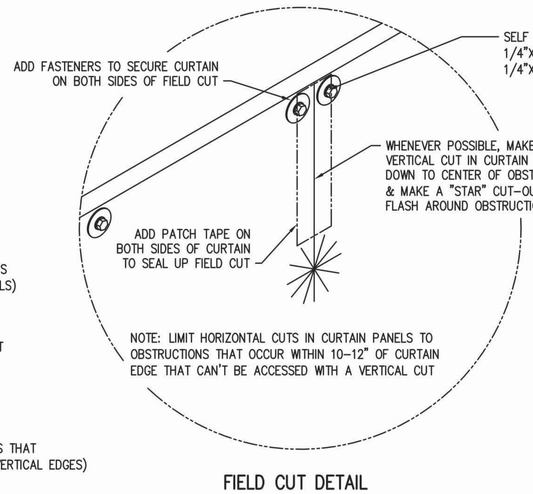


GENERAL INSTALLATION DETAILS

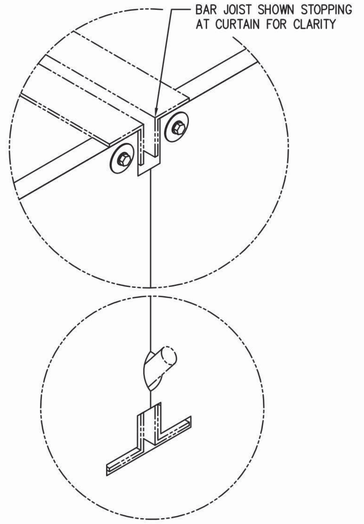


NAILING FLAP DETAIL

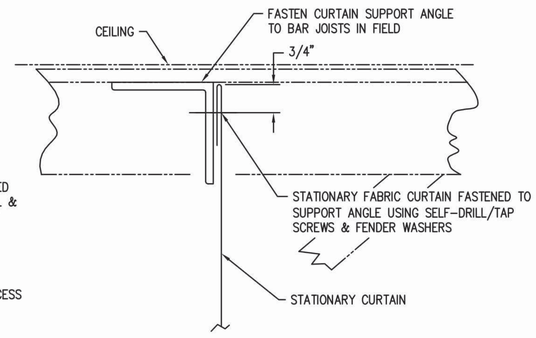
T&H = TOUCH AND HOLD



FIELD CUT DETAIL
(PIPING, CONDUIT, ETC.)

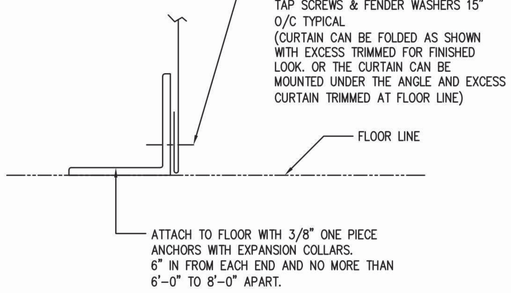


BAR JOIST DETAILS



TYPICAL INSTALLATION OF SINGLE LAYER
STATIONARY FABRIC CURTAIN TO BAR JOISTS

NOTE: STATIONARY SCW INSTALLATION IS BASICALLY THE SAME, BUT TOP OF SCW STATIONARY CURTAIN IS NOT NORMALLY HEMMED



TYPICAL INSTALLATION OF SINGLE LAYER
STATIONARY FABRIC CURTAIN TO FLOOR LINE

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OVER	UP TO	+/-
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1.25	5	0.030
5	15	0.040
15	40	0.060
40	80	0.100
80	–	0.125
ANGLES	+/- 1 DEG	
FINISH	NONE	

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ITEM	QTY	PART NO.	DESCRIPTION
PARTS LIST / MATERIAL			

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TITLE: INSTALLATION, GENERAL
STATIONARY SCL CURTAIN WALLS

SIZE	MODEL NUMBER	DWG NO	REV
D	SCL	A7780033	A

SCALE 3/8"=1' PART # SHEET 1 of 1

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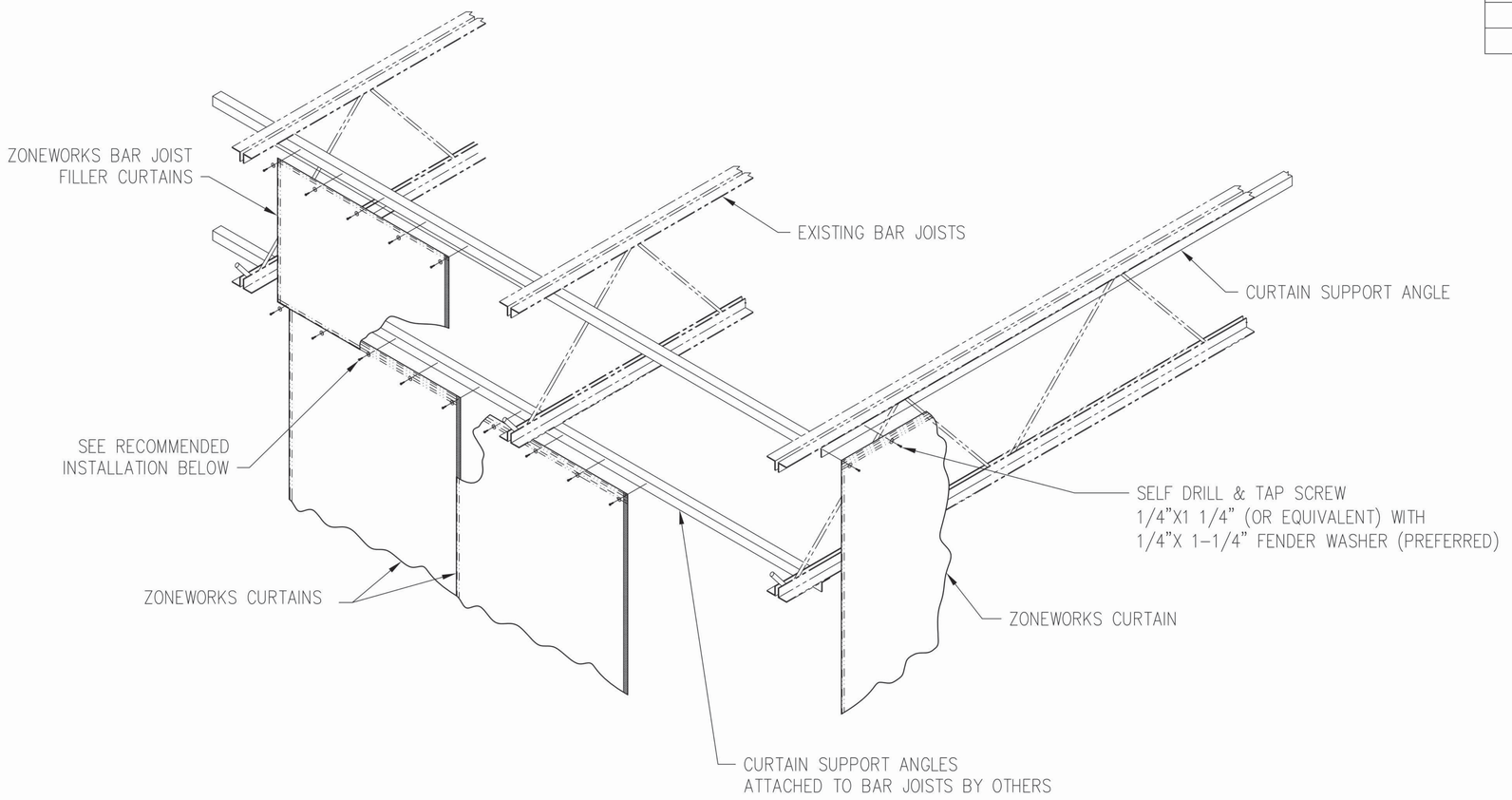
REVISION HISTORY					
REV	DESCRIPTION	ECN	DATE	BY	APPROVED
A	REV PARALLEL CURT TO ROOF DECK	–	5/28/09	DJH	



DETAIL, TZ CURTAIN BASIC INSTALLATION TO SUPPORT ANGLE

RECOMMENDED INSTALLATION:
1) INSTALL MAIN CURTAIN & BAR JOIST CURTAIN PANELS FROM LEFT TO RIGHT WHENEVER POSSIBLE
2) OVERLAP EACH PANEL 1 1/2" ALONG VERTICAL EDGE & SEAL T&H FROM TOP TO BOTTOM
3) ALL FASTENERS SHOULD BE APPROX. 3/4" DOWN FROM TOP EDGE, WITH FIRST FASTENER BEING LOCATED AT 3/4" FROM OUTSIDE EDGE. ALL OTHER FASTENERS ACROSS TOP OF PANEL TO BE ON APPROX. 15" CENTERS. FASTENERS AT EDGE OF PANELS SHOULD GO THROUGH BOTH PANELS WHERE THEY OVERLAP.
4) MINIMUM RECOMMENDED FASTENERS:
#14 X 1 1/4" HEX WASHER HEAD SELF DRILL/TAP SCREWS OR EQUAL WITH 1/4" FLAT FENDER WASHER UNDER EACH SCREW HEAD.
5) FIELD CUT AROUND OBSTRUCTIONS & "WEAVE" BAR JOIST CURTAINS THROUGH BAR JOISTS TO SUIT

T&H = TOUCH AND HOLD

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80	–	0.125
ANGLES	+/– 1 DEG	
FINISH	NONE	

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TITLE
DETAIL, TZ CURTAIN
BASIC INSTALLATION TO SUPPORT ANGLE

SIZE	MODEL NUMBER	DWG NO	REV
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SCALE 3/8"=1'	PART #	SHEET 1 of 1	

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FILE:	Autodesk Docs://Hippo Harvest Hollister/R23_HIPPO HARVEST HOLLISTER - ARCH v2.rvt

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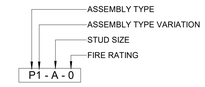
BID SET #1 - ADDENDUM 2

NOTES - PARTITION



ASSEMBLY TYPE LEGEND:
P = PARTITION
S = SHAFTWALL
C = CHASE WALL
M = MASONRY

STUD SIZE LEGEND:
A=2X4 WD
B=2X6 WD
C=3 5/8" METAL
D=4" METAL
E=6" METAL
H=2.5"C-H

SEALANT NOTES:
1. ACOUSTICAL - PROVIDE ACOUSTICAL SEALANT AT HEADS AND EDGES OF PARTITIONS: PROVIDE ACOUSTIC SEALANT AT BASES OF ALL PARTITIONS THAT SERVE AS ACOUSTIC BARRIERS, INCLUDING THOSE AT CORRIDORS, DEMISING WALLS, AND SHAFT WALLS. REFER TO MANUFACTURER RECOMMENDATIONS FOR DETAILED INSTRUCTIONS ON THE APPLICATION OF ACOUSTIC SEALANT.
2. FIRE RATED - PROVIDE FIRE STOP SEALANT WHERE REQUIRED FOR ALL RATED PARTITIONS. SEE PARTITION DETAILS.

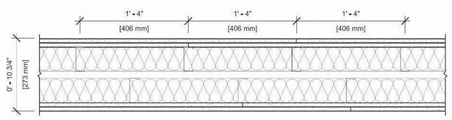
MISC NOTES:
1. CONTRACTOR SHALL INSTALL CORNER BEADS AT ALL EXPOSED CORNERS AND EXPOSED ENDS IN PLASTER AND DRYWALL PARTITIONS. CONTRACTOR TO PROVIDE CORNER GUARDS FOR ALL HIGH TRAFFIC BACK OF HOUSE CORRIDORS SUCH AS NEAR THE TRASH ROOMS.
2. THE CONTRACTOR SHALL PROVIDE SUFFICIENT FRAMING IN PARTITIONS FOR ALL DUCT WORK. RETURN AIR OPENINGS AND GRILLS ABOVE AND BELOW CEILINGS SHALL BE COORDINATED WITH MECHANICAL ENGINEERING DRAWINGS AND MECHANICAL CONTRACTOR'S SHOP DRAWINGS. ALL OPENINGS SHALL BE PROPERLY SEALED FOR SOUNDPROOFING AND AGAINST VIBRATION.
3. THE CONTRACTOR SHALL PROVIDE AND INSTALL ACCESS PANELS AS REQUIRED FOR MECHANICAL, ELECTRICAL, AND PLUMBING INSTALLATIONS PER APPLICABLE BUILDING CODES. CONTRACTOR SHALL COORDINATE TYPE AND LOCATION OF ACCESS PANELS WITH ARCHITECT PRIOR TO INSTALLATION.
4. ALL PIPING SHALL BE TESTED AND INSPECTED AS REQUIRED BY THE AUTHORITIES HAVING JURISDICTION, PRIOR TO WORK BEING COVERED OR CONCEALED. BEFORE COVERED UP OR BUILT-IN, ALL PIPING SHALL BE TESTED AND INSPECTED AS REQUIRED BY THE AUTHORITIES HAVING JURISDICTION.
5. ALL INTERIOR PARTITION TYPES WITH TILE, STONE OR PLASTER FINISH TO HAVE A DEFLECTION OF L/360 & 5/8" WATER RESISTANT GYPSUM BOARD & FRAMING AT 16" O.C.
6. FOR ALL PLUMBING WALLS: PROVIDE A MINIMUM OF 1" FREE AIR SPACE BETWEEN PLUMBING PIPES AND ALL STRUCTURE (STUDS, STUD STRAPS, GYPSUM BOARD, ETC.)
7. FOR ACOUSTIC REASON, NO BRACING TO BE PROVIDED BETWEEN THE TWO STUD ROWS IN THE DOUBLE STUD PLUMBING WALL TO MITIGATE STRUCTURE-BORNE NOISE. BRACING WITHIN EACH STUD ROW IS ACCEPTABLE.
8. **ALSO SEE DETAILS ON STRUCTURAL DRAWINGS**, WHERE DIFFERENCES OCCUR BETWEEN ARCHITECTURAL AND STRUCTURAL DRAWINGS AND NOTES, REFER TO STRUCTURAL DRAWINGS, NOTES AND DETAILS.
9. PROVIDE LEVEL 1 FINISH (FIRE TAPING) AT CONCEALED AREAS OF FIRE RATED WALLS SUCH AS INTERIOR SIDES OF SHAFTS AND SURFACES ABOVE SUSPENDED CEILINGS.
10. FILED VERIFY PARTITION THICKNESS FOR INTERNAL ELEMENTS SUCH AS PLUMBING, ELECTRICAL PANELS, BOXES, ACCESSORIES, ETC.
11. "ALIGN" MEANS TO ACCURATELY LOCATE FINISHED FACES IN SAME PLANE.
12. ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE FIRESTOPPED. THRU PENETRATIONS SHALL COMPLY WITH CBC SECTION 714.4.2, 714.5.1, 714.6.2. MEMBRANE PENETRATIONS SHALL COMPLY WITH CBC SECTION 714.4.2, 714.5.2
13. ALL RATED ASSEMBLIES ARE LISTED AS TESTED. MODIFICATIONS FROM THE TESTED ASSEMBLIES ARE LISTED INDIVIDUALLY AND IN ACCORDANCE WITH THE GA MANUAL, V19, GENERAL EXPLANATORY NOTES; OR DEFINITIONS IN 2001 UL FIRE RESISTANCE DIRECTORY. WHICHEVER IS APPLICABLE.
14. PARTITIONS SHOWN ALIGNED WITH EXISTING BASE BUILDING ELEMENTS SHALL BE INSTALLED FLUSH AND SMOOTH WITH BASE BUILDING ELEMENTS.
15. OWNER & ARCHITECT SHALL REVIEW WALL LAYOUT PRIOR TO INSTALLATION OF TRACKS. ARCHITECT SHALL BE NOTIFIED IN ADVANCE OF ANY DEVIATION FROM DIMENSIONS OR CLEARANCE INDICATED ON PLANS REQUIRED DUE TO FIELD CONDITIONS.
16. THE PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL PLUMBING ROUGH-INS, FIXTURES, AND ACCESSORIES INDICATED IN THE DRAWINGS.
17. THE PLUMBING CONTRACTOR SHALL SUBMIT CUT SHEETS OF ALL FIXTURES, FITTINGS, AND ACCESSORIES TO OWNER & OWNER'S REPRESENTATIVE FOR REVIEW PRIOR TO ORDERING.
18. THE PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL VALVES AS INDICATED IN THE DRAWINGS AND/OR AS REQUIRED FOR THE PROPER CONTROL OF THE PIPING AND APPARATUS INSTALLED AS PART OF THIS PROJECT SO THAT ANY FIXTURE, LINE, OR APPARATUS MAY BE CUT OFF AND REPAIRED WITHOUT INTERFERENCE OR INTERRUPTION OF SERVICE TO THE REMAINDER OF THE BUILDING.
19. AT ALL DOORS, FIRE RATING OF ADJACENT WALLS MUST CONTINUE ABOVE DOOR FRAMES.
20. IF STUD HEIGHT EXCEEDS THAT LISTED IN ASTM C-754, TABLE 3, PROVIDE CROSS BRACING AND OR REDUCE STUD SPACING AS REQUIRED TO COMPLY WITH DEFLECTION CRITERIA.
21. PROVIDE METAL SUPPORT BLOCKING FOR WALL MOUNTED EQUIPMENT AND ACCESSORIES. COORDINATE LOCATIONS WITH APPLICABLE TRADES. REFER TO BACKING DETAILS.
22. PROVIDE DOUBLE STUDS AT DOOR JAMBS AND OTHER OPENINGS.
23. ALL FIRE RESISTIVE PARTITIONS SHALL EXTEND FROM FLOOR SLAB TO UNDERSIDE OF FLOOR OR ROOF CONSTRUCTION ABOVE UNLESS OTHERWISE NOTED ON PLANS.

LEGEND - PARTITION TYPES

IMP-1	**R-19** 2" BUTLER SHADOW WALL PANEL PROVIDED BY BUILDING MANUF.
IMP-2	**R-38** 4" BUTLER SHADOW WALL PROVIDED BY BUILDING MANUF.
RP-1	**R-38** 4" REFRIGERATION PANEL
P12-E-0	6" MTL. STUD W/ 5/8" W. TYPE X G.B. AND W.R.G.B AT WET LOCAITONS AND **R-19** BATT INSULATION
P12-C-0	3-5/8" MTL. STUD W/ 5/8" W.R.G.B AND **R-19** BATT INSULATION
D14-C-0	3-5/8" DOUBLE MTL. STUD ACOUSTIC PARTITION W/ 1" GAP & 5/8" W.R.G.B ON WET SIDE AND DOUBLE **R-19** BATT INSULATION (STC 60)
P12-C-0	3-5/8" MTL. STUD W/ 5/8" W.R.G.B

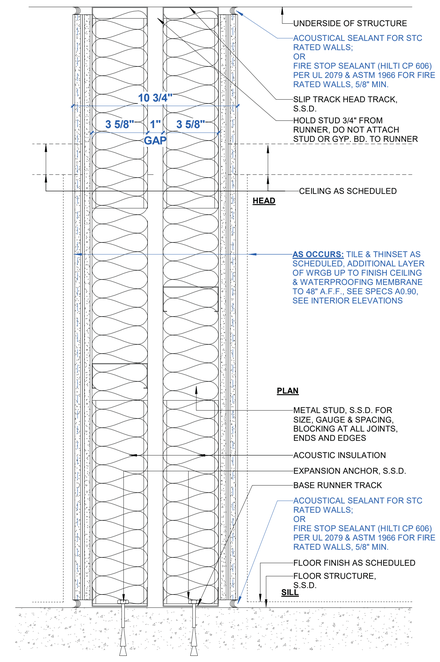
UL DESIGN NO. U493

FIRE RATING:	2 Hour
STC:	64
SOUND TEST:	USG-160850
SYSTEM THICKNESS:	10 3/4"



ASSEMBLY OPTIONS:

GYPSUM BOARD:	2 LAYERS 5/8" THICK GYPSUM BOARD (UL TYPE ULIX™)
STEEL STUDS:	3-5/8" STEEL STUDS, EQ20 (0,020"), STAGGERED, SPACED 16" O.C.
INSULATION:	3-1/2" GLASS FIBER BATT INSULATION IN CAVITY
AIR SPACE:	1" AIR SPACE
STEEL STUDS:	3-5/8" STEEL STUDS, EQ20 (0,020"), STAGGERED, SPACED 16" O.C.
INSULATION:	3-1/2" GLASS FIBER BATT INSULATION IN CAVITY
GYPSUM BOARD:	2 LAYERS 5/8" THICK GYPSUM BOARD (UL TYPE ULIX™)

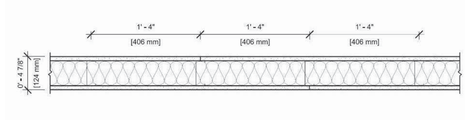


TYPE VARIATION:	D14-C-0	D14-C-2
RATINGS:	N/A	2HR
UL LISTING #:		U493
STUD:	3 5/8" (x2)	3 5/8" (x2)
OVERALL THICKNESS:	10 3/4"	10 3/4"
LIMITING HEIGHT:		
STC RATING:		64
FIRE RATED SEALANT:	NO	YES
INSULATION:		
NOTES:	S.S.D. FOR FRAMING AT DOUBLE HEIGHT WALL LOCATIONS.	

3 A8.00 PARTITION TYPE D14
3" = 1'-0"

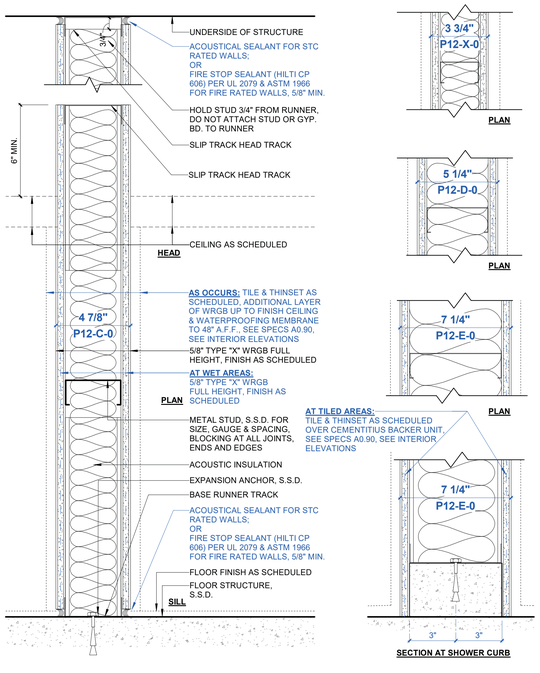
UL DESIGN NO. U419

FIRE RATING:	1 Hour
STC:	44
SOUND TEST:	USG-150919
SYSTEM THICKNESS:	4 7/8"



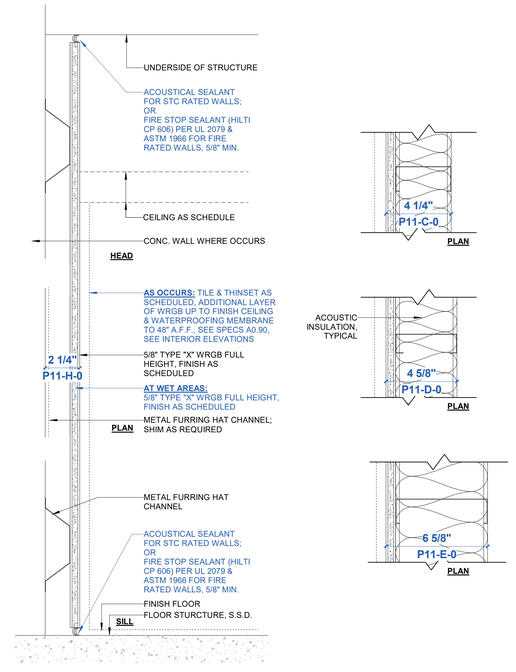
ASSEMBLY OPTIONS:

GYPSUM BOARD:	ONE LAYER 5/8" THICK GYPSUM BOARD (UL TYPE ULIX™)
STEEL STUDS:	3-5/8" STEEL STUDS, EQ20 (0,020"), SPACED 16" O.C.
INSULATION:	3-1/2" THICK GLASS FIBER BATT INSULATION
GYPSUM BOARD:	ONE LAYER 5/8" THICK GYPSUM BOARD (UL TYPE ULIX™)



TYPE VARIATION:	P12-C-0	P12-C-1	P12-D-0	P12-D-1	P12-E-0	P12-E-1
RATINGS:	NON-RATED	1HR	NON-RATED	1HR	NON-RATED	1HR
UL LISTING #:	N/A	U419	N/A	U419	N/A	U419
STUD:	3 5/8"	3 5/8"	4"	4"	6"	6"
OVERALL THICKNESS:	4 7/8"	4 7/8"	5 1/4"	5 1/4"	7 1/4"	7 1/4"
LIMITING HEIGHT:						
STC RATING:	40	40				
FIRE RATED SEALANT:	NO	YES	NO	YES	NO	YES
INSULATION:	ACOUSTICAL INSULATION, MIN R13 (THERMAFIBER SAFB OR EQUAL)					
NOTES:	1. GYP.BD. TO BE CONTINUED TO UNDERSIDE OF STRUCUTRE AT ALL AREAS WITHOUT CEILING 2. FINISH & COLOR INFORMATION AS SCHEDULED 3. SEE STRUCTURAL DRAWINGS FOR ALL STUD SIZES & DETAILS. 4. THE STRUCTURAL DETAILS SUPERCEDE ARCHITECTURAL DETAILS. - -					

2 A8.00 PARTITION TYPE P12
3" = 1'-0"



TYPE VARIATION:	P11-H-0	P11-C-0	P11-D-0	P11-E-0
RATINGS:				
UL LISTING #:				
STUD:	7/8" HAT CH.	3 5/8"	4"	6"
OVERALL THICKNESS:	2 1/4"	4 1/4"	4 5/8"	6 5/8"
LIMITING HEIGHT:				
STC RATING:				
FIRE RATED SEALANT:	NO	NO	NO	NO
INSULATION:	WITHOUT INSULATION			
NOTES:	1. EXTEND WALL FULL HEIGHT FROM FLOOR TO SLAB ABOVE 2. FINISH & COLOR INFORMATION AS SCHEDULED SEE ENLARGED ELEVATIONS			

1 A8.00 PARTITION TYPE P11
3" = 1'-0"

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HIPPO HARVEST
HOLLISTER, CA
2370 SHORE ROAD
HOLLISTER, CA 95023
REF. PLAN CHECK # XXXXX

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PARTITION SCHEDULE (LIGHT GUAGE)

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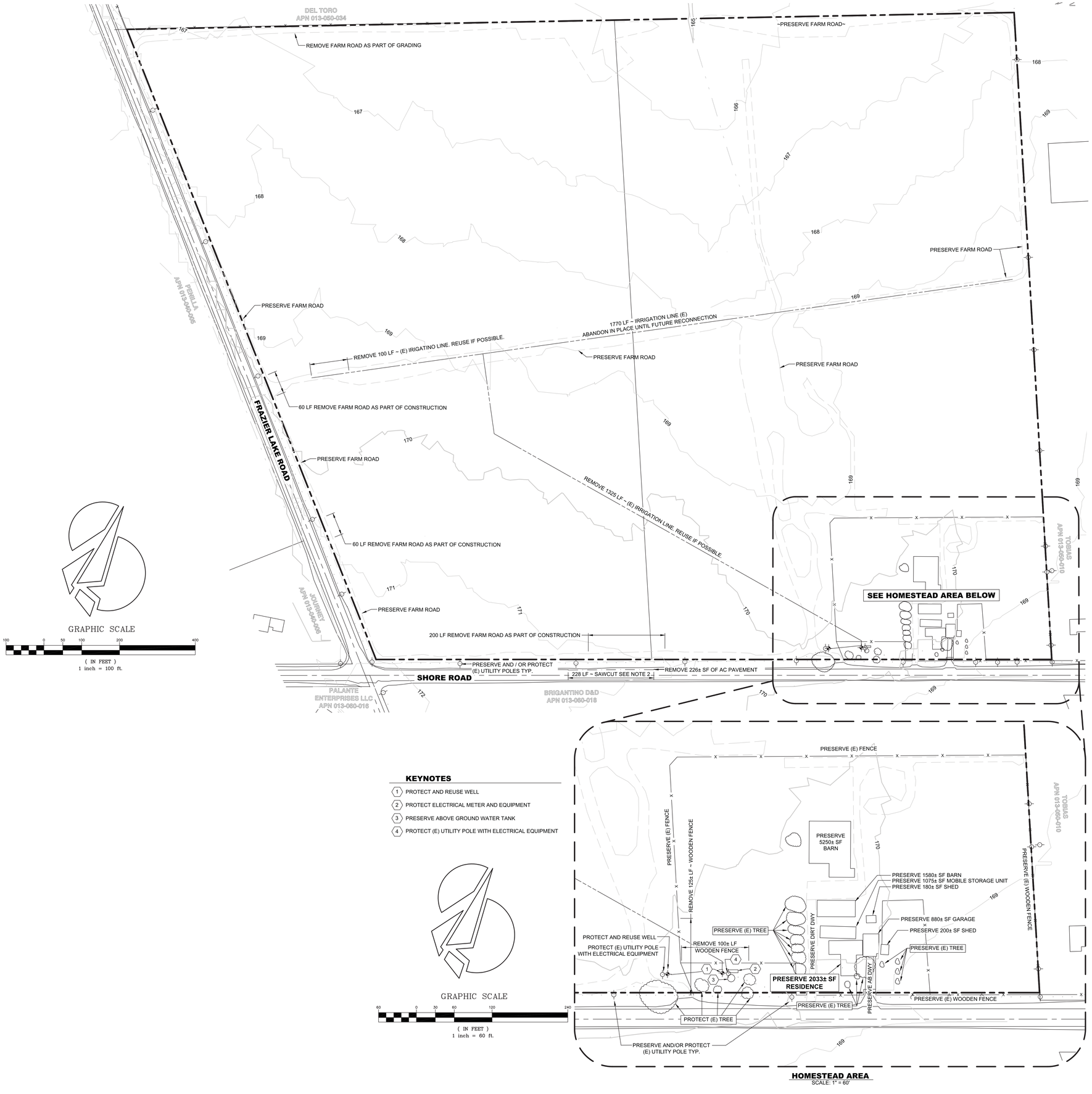
BID SET #1 - ADDENDUM 2

NOTE:

1. THIS DEMOLITION PLAN ONLY APPLIES TO PHASE 1 OF THE PROJECT AND DOESN'T REPRESENT THE DEMOLITION REQUIRED FOR FULL BUILT-OUT OF THE DEVELOPMENT SITE.
2. SAWCUT 1' MINIMUM OF EXISTING PAVEMENT TO A CLEAN, NEAT VERTICAL LINE.



GRAPHIC SCALE

100 0 50 100 200 400

(IN FEET)
1 inch = 100 ft.

KEYNOTES

1. PROTECT AND REUSE WELL
2. PROTECT ELECTRICAL METER AND EQUIPMENT
3. PRESERVE ABOVE GROUND WATER TANK
4. PROTECT (E) UTILITY POLE WITH ELECTRICAL EQUIPMENT

GRAPHIC SCALE

60 0 30 60 120 240

(IN FEET)
1 inch = 60 ft.

HOMESTEAD AREA
SCALE: 1" = 60'

In accordance with section 6735 (a) of the Professional Engineer's Act these plans are

PRELIMINARY

and therefore do not bear the signature and seal of a registered civil engineer.

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REF. PLAN CHECK # XXXXX

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LICENSE NUMBER:	CIVIL - 84966
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TOPOGRAPHIC SURVEY AND DEMOLITION PLAN

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BID SET #1 - ADDENDUM 2

PRELIMINARY EARTHWORK ESTIMATE

	CUT	FILL	NET	
BANK YARDAGE	-18100 CY	+4600 CY	-13500 CY	
PHASE 1 TOP SOIL	0 CY	+22750 CY	+22750 CY	
BORROW	-12710 CY	0 CY	-8475 CY	
BORROW AREA TOP SOIL	-12700 CY	+12700 CY	+ 0 CY	
SHRINKAGE @ ~ 20%	0 CY	+3460 CY	+2660 CY	
TOTAL	-43510 CY	+43510 CY	+0 CY	BALANCED

* DISPERSE OF ORGANIC LADEN TOPSOIL OVER THE DESIGNATED AREA MAXIMUM CHANGE IN ELEVATION DURING PHASE 1 OF 0.9 FT.

NOTE:
THE EARTHWORK QUANTITIES ABOVE ARE APPROXIMATE.
THE EARTHWORK QUANTITIES ABOVE MAY OR MAY NOT REPRESENT THE FINAL EARTHWORK AT THE COMPLETION OF THE PROJECT DUE TO, BUT NOT LIMITED TO: SOIL PROPERTIES, ACTUAL SHRINKAGE, UTILITY SPOILS, FOUNDATION SPOILS, PRESENCE OF ORGANICS IN TOP SOILS, SOIL SUITABILITY, CONSTRUCTION TOLERANCES, TOPOGRAPHIC SURVEY TOLERANCES, FINISH GRADING, AND UNFORESEEN CHANGES TO DESIGN.

POND SUMMARY

PHASE #1 POND

TOP OF POND:	167.0'±
INVERT OF POND:	161.85'
50 YEAR HGL:	165.97' (1.03' FREEBOARD)
100 YEAR HGL:	166.17' (0.83' FREEBOARD)

DEVELOPMENT

RUNOFF AREA PHASE 1:	27.709 ACRES
10 YEAR PRE-DEVELOPED OUT-FLOW:	16.78 CFS
100 YEAR POST-DEVELOPED OUT-FLOW:	7.97 CFS

LEGEND

EXISTING		PROPOSED
	BUILDING	
	BOUNDARY	
	LOT LINE	
	BUILDING SETBACK	
	CENTERLINE	
	CURB	
	EDGE OF PAVEMENT	
	FAULT	
x	FENCE	x
	OVERHEAD LINE	
	STORM DRAIN	
	SANITARY SEWER	
	SWALE	
	WATER	
	POLE	
	WELL	
100	CONTOUR	100
	AC	
	PCC	
	AB OR OTHER SPECIFIED ROCK	
	CATCH BASIN	
	STORM DRAIN MANHOLE	

ABBREVIATIONS

AB	CLASS 2 AGGREGATE BASE	INV	INVERT
AC	ASPHALTIC CONCRETE	LF	LINEAR FEET
APN	ASSESSOR'S PARCEL NUMBER	LP	LOW POINT
CY	CUBIC YARDS	(N)	NEW
DF	DOUGLAS FIR	NTS	NOT TO SCALE
DWY	DRIVEWAY	P/L	PROPERTY LINE
Ø	DIAMETER	PCC	PORTLAND CEMENT CONCRETE
EG	EXISTING GROUND	PT	PRESSURE TREATED
(E)	EXISTING	R.C.	RELATIVE COMPACTION
ELEV	ELEVATION	R/W	RIGHT OF WAY
FG	FINISH GRADE	RYSB	REAR YARD SETBACK
FL	FLOWLINE	SD	STORM DRAIN
FF	FINISH FLOOR	SF	SQUARE FEET
FT	FEET OR FOOT	SS	SANITARY SEWER
FYSB	FRONT YARD SETBACK	STA	STATION
GB	GRADE BREAK	SYSB	SIDE YARD SETBACK
HP	HIGH POINT	TYP	TYPICAL

PROJECT INFORMATION

ASSESSOR'S PARCEL NUMBERS (APN):	013-050-025, 013-050-024
TOTAL AREA:	80.25 ACRES | 3495690 SFT
EXISTING LAND USE:	AGRICULTURE
PROPOSED LAND USE:	AGRICULTURE
EXISTING COUNTY GENERAL PLAN:	AGRICULTURE
PROPOSED COUNTY GENERAL PLAN:	AGRICULTURE
EXISTING COUNTY ZONING:	AGRICULTURE PRODUCTIVE (AP)
PROPOSED COUNTY ZONING:	AGRICULTURE PRODUCTIVE (AP)

RESIDENTIAL UNIT SETBACK REQUIREMENTS:

FRONT:	25 FT
SIDE:	32 FT
REAR	35 FT

WATER SERVICE:	LOCAL WELL
SEWER SERVICE:	PRIVATE ENGINEERED SYSTEM PERMITTED BY THE STATE OF CALIFORNIA
LOCAL FIRE SEVERITY ZONE:	NON-WILDLAND/NON-URBAN PER SBC GIS
FLOOD HAZARD ZONE:	ZONE X PER FEMA MAP 06069C0075D
SEISMIC HAZARD ZONE:	ALQUIST-PRIOLO ZONE PER CA SPECIAL STUDIES ZONE MAP
VEGETATION REMOVAL:	PHASE 1 : NONE

GEOTECHNICAL REPORT

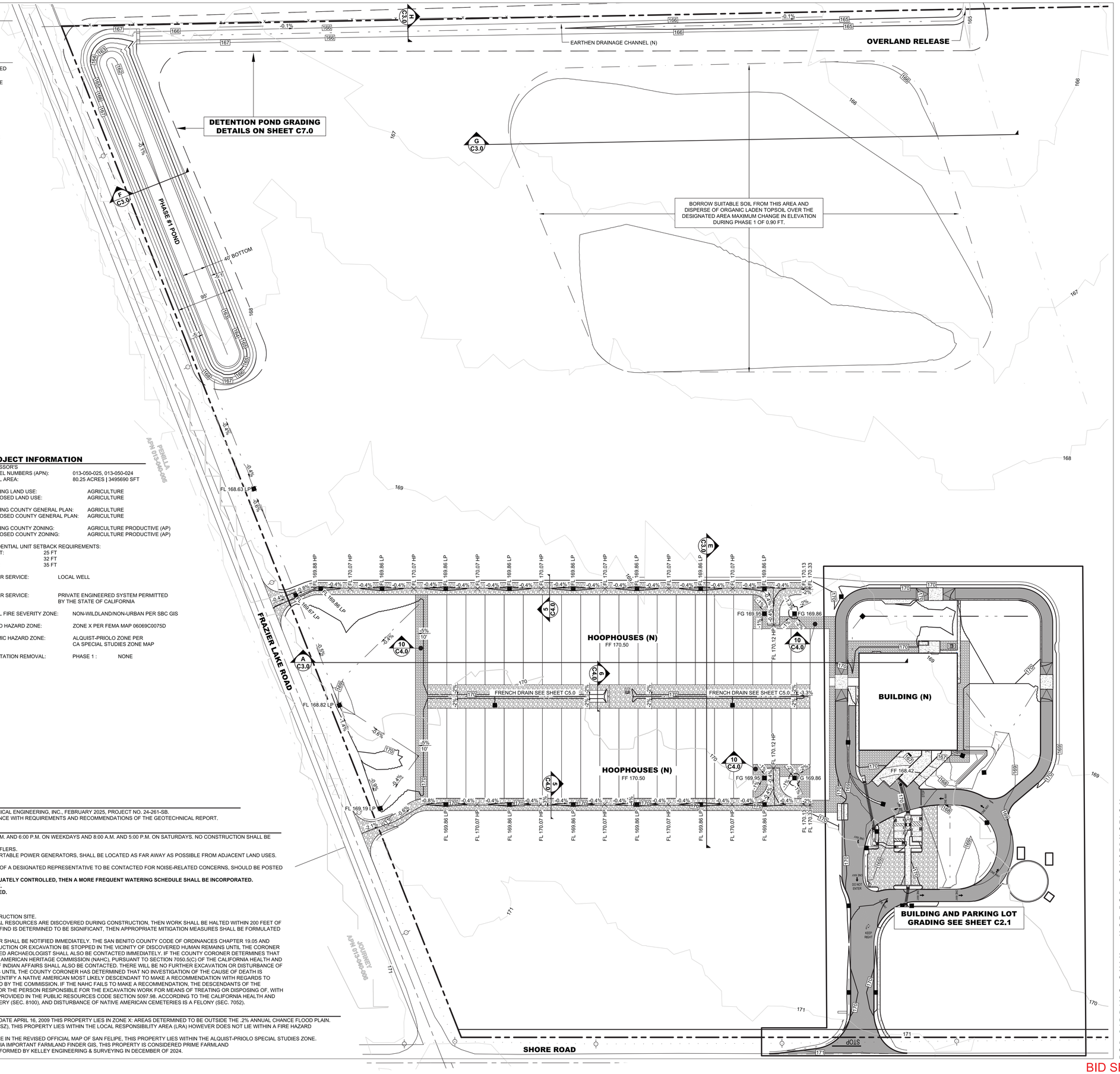
THE GEOTECHNICAL REPORT USED FOR THIS DESIGN WAS PREPARED BY BUTANO GEOTECHNICAL ENGINEERING, INC., FEBRUARY 2025, PROJECT NO. 24-261-SB.
ALL GRADING AND IMPROVEMENTS SHALL BE INSTALLED OR CONDUCTED IN STRICT COMPLIANCE WITH REQUIREMENTS AND RECOMMENDATIONS OF THE GEOTECHNICAL REPORT.

CONSTRUCTION NOTES

1. OPERATION OF CONSTRUCTION EQUIPMENT SHALL BE LIMITED TO THE HOURS OF 7:00 A.M. AND 6:00 P.M. ON WEEKDAYS AND 8:00 A.M. AND 5:00 P.M. ON SATURDAYS. NO CONSTRUCTION SHALL BE ALLOWED ON SUNDAYS OR FEDERAL HOLIDAYS.
2. ALL INTERNAL COMBUSTION ENGINE-DRIVEN EQUIPMENT SHALL BE EQUIPPED WITH MUFFLERS.
3. ALL STATIONARY NOISE-GENERATING EQUIPMENT, SUCH AS AIR COMPRESSORS AND PORTABLE POWER GENERATORS, SHALL BE LOCATED AS FAR AWAY AS POSSIBLE FROM ADJACENT LAND USES.
4. UNNECESSARY IDLING OF INTERNAL COMBUSTING ENGINES SHALL BE PROHIBITED.
5. THE DAYS AND HOURS OF CONSTRUCTION, AS WELL AS THE NAME AND PHONE NUMBER OF A DESIGNATED REPRESENTATIVE TO BE CONTACTED FOR NOISE-RELATED CONCERNS, SHOULD BE POSTED AT THE PERIMETER OF THE PROJECT SITE.
6. **ALL GRADED AREAS SHALL BE WATERED AT LEAST TWICE DAILY. IF DUST IS NOT ADEQUATELY CONTROLLED, THEN A MORE FREQUENT WATERING SCHEDULE SHALL BE INCORPORATED. FREQUENCY SHALL BE BASED ON THE TYPE OF OPERATION, SOIL, AND WIND EXPOSURE.**
7. **ALL GRADING ACTIVITIES DURING PERIODS OF HIGH WIND, OVER 15 MPH, ARE PROHIBITED.**
8. HAUL TRUCKS SHALL MAINTAIN AT LEAST TWO FEET OF FREEBOARD.
9. ALL TRUCKS HAULING DIRT, SAND, OR LOOSE MATERIALS SHALL BE COVERED.
10. INACTIVE STORAGE PILES SHALL BE COVERED.
11. STREETS SHALL BE SWEPT IF VISIBLE SOIL MATERIAL IS CARRIED OUT FROM THE CONSTRUCTION SITE.
13. PER THE SAN BENITO COUNTY CODE OF ORDINANCE CHAPTER 19.05, IF ARCHAEOLOGICAL RESOURCES ARE DISCOVERED DURING CONSTRUCTION, THEN WORK SHALL BE HALTED WITHIN 200 FEET OF THE FIND UNTIL A QUALIFIED PROFESSIONAL ARCHAEOLOGIST CAN EVALUATE IT. IF THE FIND IS DETERMINED TO BE SIGNIFICANT, THEN APPROPRIATE MITIGATION MEASURES SHALL BE FORMULATED AND IMPLEMENTED.
14. IF HUMAN REMAINS ARE ENCOUNTERED DURING CONSTRUCTION, THE COUNTY CORONER SHALL BE NOTIFIED IMMEDIATELY. THE SAN BENITO COUNTY CODE OF ORDINANCES CHAPTER 19.05 AND SECTION 7050.5 OF THE CALIFORNIA HEALTH AND SAFETY CODE REQUIRE THAT CONSTRUCTION OR EXCAVATION BE STOPPED IN THE VICINITY OF DISCOVERED HUMAN REMAINS UNTIL THE CORONER CAN DETERMINE WHETHER THE REMAINS ARE THOSE OF A NATIVE AMERICAN. A QUALIFIED ARCHAEOLOGIST SHALL ALSO BE CONTACTED IMMEDIATELY. IF THE COUNTY CORONER DETERMINES THAT THE REMAINS ARE NATIVE AMERICAN, THE CORONER SHALL THEN CONTACT THE NATIVE AMERICAN HERITAGE COMMISSION (NAHC), PURSUANT TO SECTION 7050.5(C) OF THE CALIFORNIA HEALTH AND SAFETY CODE (SEE SECTION 1.2 REGULATORY SETTING). THE COUNTY COORDINATOR OF INDIAN AFFAIRS SHALL ALSO BE CONTACTED. THERE WILL BE NO FURTHER EXCAVATION OR DISTURBANCE OF THE SITE OR ANY NEARBY AREA REASONABLY SUSPECTED TO OVERLIE HUMAN REMAINS UNTIL THE COUNTY CORONER HAS DETERMINED THAT NO INVESTIGATION OF THE CAUSE OF DEATH IS REQUIRED; AND, IF THE REMAINS ARE OF NATIVE AMERICAN ORIGIN. THE NAHC SHALL IDENTIFY A NATIVE AMERICAN MOST LIKELY DESCENDANT TO MAKE A RECOMMENDATION WITH REGARDS TO APPROPRIATE TREATMENT OF HUMAN REMAINS WITHIN 24 HOURS AFTER BEING NOTIFIED BY THE COMMISSION. IF THE NAHC FAILS TO MAKE A RECOMMENDATION, THE DESCENDANTS OF THE DECEASED NATIVE AMERICANS SHALL MAKE A RECOMMENDATION TO THE LANDOWNER OR THE PERSON RESPONSIBLE FOR THE EXCAVATION WORK FOR MEANS OF TREATING OR DISPOSING OF, WITH APPROPRIATE DIGNITY, THE HUMAN REMAINS AND ANY ASSOCIATED GRAVE GOODS AS PROVIDED IN THE PUBLIC RESOURCES CODE SECTION 5097.98. ACCORDING TO THE CALIFORNIA HEALTH AND SAFETY CODE, SIX OR MORE HUMAN BURIALS AT ONE LOCATION CONSTITUTES A CEMETERY (SEC. 8100), AND DISTURBANCE OF NATIVE AMERICAN CEMETERIES IS A FELONY (SEC. 7052).

NOTES

1. FLOOD ZONE: PER FEMA FLOOD INSURANCE RATE MAP NUMBER 06069C0075D EFFECTIVE DATE APRIL 16, 2009 THIS PROPERTY LIES IN ZONE X: AREAS DETERMINED TO BE OUTSIDE THE .2% ANNUAL CHANCE FLOOD PLAIN.
2. FIRE SEVERITY ZONE: ACCORDING TO THE CAL FIRE GIS FIRE HAZARD SEVERITY ZONE (FHSZ), THIS PROPERTY LIES WITHIN THE LOCAL RESPONSIBILITY AREA (LRA) HOWEVER DOES NOT LIE WITHIN A FIRE HAZARD SEVERITY ZONE.
3. SEISMIC HAZARD ZONE: ACCORDING TO THE STATE OF CALIFORNIA SPECIAL STUDIES ZONE IN THE REVISED OFFICIAL MAP OF SAN FELIPE, THIS PROPERTY LIES WITHIN THE ALQUIST-PRIOLO SPECIAL STUDIES ZONE.
4. FARMLAND: ACCORDING TO THE CALIFORNIA DEPARTMENT OF CONSERVATION, CALIFORNIA IMPORTANT FARMLAND FINDER GIS, THIS PROPERTY IS CONSIDERED PRIME FARMLAND
5. THE TOPOGRAPHY DEPICTED IN THIS PLAN SET WAS DERIVED FROM A FIELD SURVEY PERFORMED BY KELLEY ENGINEERING & SURVEYING IN DECEMBER OF 2024.



In accordance with section 6735 (a) of the Professional Engineer's Act these plans are
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and therefore do not bear the signature and seal of a registered civil engineer.

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REF. PLAN CHECK # XXXXX

FOR REFERENCE ONLY

NAME: TJ KELLEY
LICENSE NUMBER: CIVIL - 84966
SIGNATURE DATE: N/A

ISSUE DATE: June 2025
PROJ #: 24025
TIME STAMP: 6/27/2025 4:26 PM
FILE: K:\Projects 2024\24025 - Hippo Harvest\dwg\24025 Hippo Harvest - BAP Phase 1 C2.0 Grading Plan.dwg

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SHEET TITLE :
OVERALL GRADING PLAN

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SHEET NO:
C2.0
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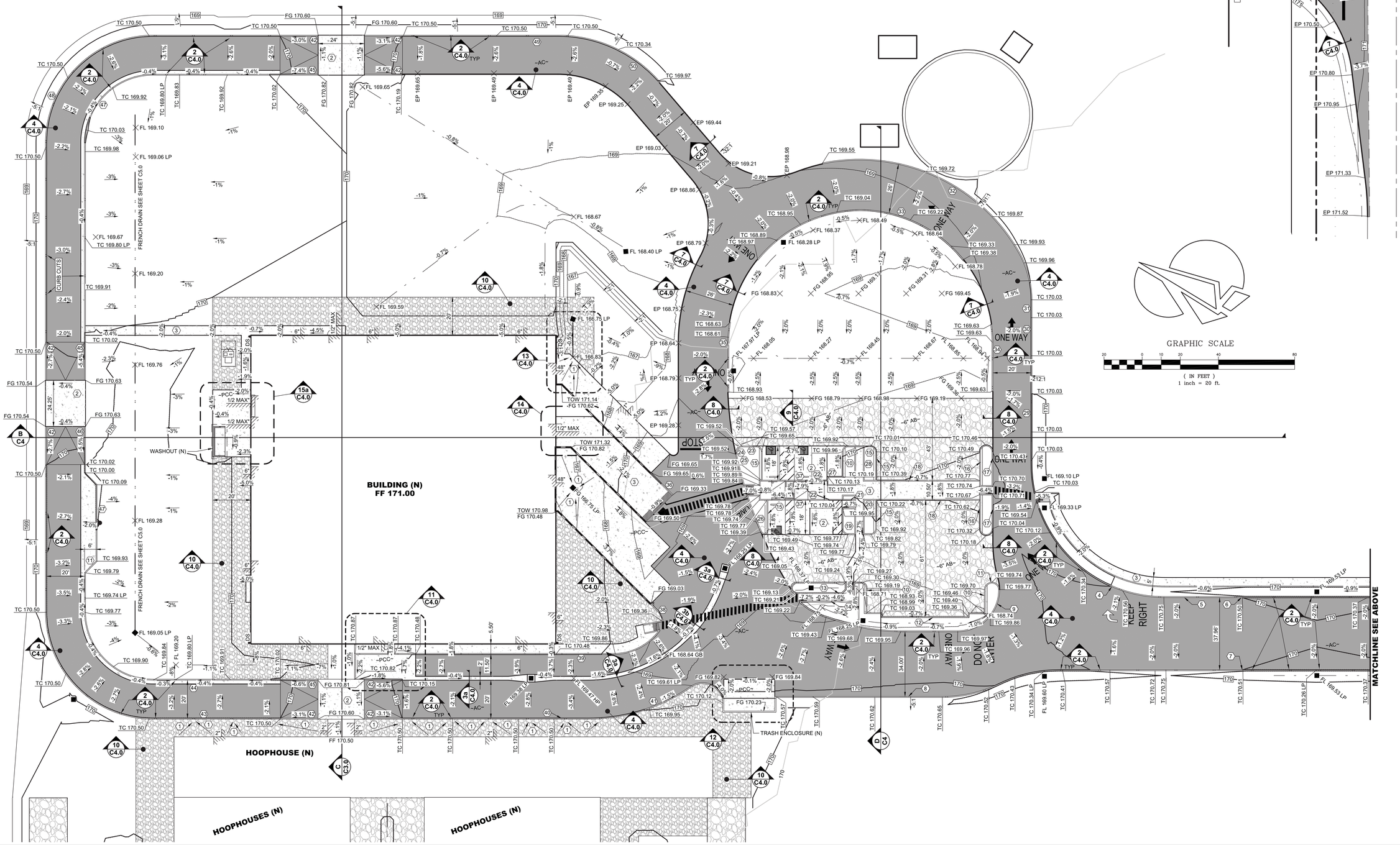
BID SET #1 - ADDENDUM 2

KEYNOTES

1. GRADE TO DRAIN
2. 6" PCC / 6" AB / 24" ENGINEERED FILL
3. 4" PCC / 4" AB / 24" ENGINEERED FILL
4. 90 LF MOUNTABLE CURB PER DETAIL 1c ON SHEET C4.0
5. 20 LF CURB TRANSITION
6. 87 LF TYPICAL CURB WITH CURB CUTS PER DETAIL 1a ON SHEET C4.0
7. 227 LF TYPICAL CURB WITH CURB CUTS PER DETAIL 1a ON SHEET C4.0
8. 88 LF CURB WITH NO CURB CUTS PER DETAIL 1g ON SHEET C4.0
9. 121 LF MOUNTABLE CURB PER DETAIL 1c ON SHEET C4.0
10. 16 LF CURB AND LANDING PER DETAIL 1e ON SHEET C4.0
11. 9 LF CURB TRANSITION
12. 66 LF FLUSH CURB PER DETAIL 1f ON SHEET C4.0
13. 66 LF TYPICAL CURB WITH CURB CUTS PER DETAIL 1a ON SHEET C4.0
14. 44 LF TYPICAL CURB WITH CURB CUTS PER DETAIL 1a ON SHEET C4.0
15. 18 LF CURB AND LANDING PER DETAIL 1e ON SHEET C4.0
16. 21 LF CURB AND LANDING PER DETAIL 1e ON SHEET C4.0
17. 33 LF CURB WITH NO CURB CUTS PER DETAIL 1g ON SHEET C4.0
18. 54 LF CURB WITH ATTACHED SIDEWALK PER DETAIL 1b ON SHEET C4.0
19. 41 LF CURB WITH NO CURB CUTS PER DETAIL 1g ON SHEET C4.0
20. 31 LF CURB WITH NO CURB CUTS PER DETAIL 1g ON SHEET C4.0
21. 19 LF CURB WITH NO CURB CUTS PER DETAIL 1g ON SHEET C4.0
22. 10 LF CURB WITH ATTACHED SIDEWALK PER DETAIL 1b ON SHEET C4.0
23. 9 LF CURB WITH NO CURB CUTS PER DETAIL 1g ON SHEET C4.0
24. 5 LF CURB TRANSITION
25. 17 LF MOUNTABLE CURB PER DETAIL 1c ON SHEET C4.0
26. 26 LF MOUNTABLE CURB PER DETAIL 1c ON SHEET C4.0
27. 48 LF CURB WITH NO CURB CUTS PER DETAIL 1g ON SHEET C4.0
28. 25 LF CURB WITH NO CURB CUTS PER DETAIL 1g ON SHEET C4.0
29. 67 LF TYPICAL CURB WITH CURB CUTS PER DETAIL 1a ON SHEET C4.0
30. 67 LF TYPICAL CURB WITH CURB CUTS PER DETAIL 1a ON SHEET C4.0
31. 10 LF CURB TRANSITION
32. 147 LF MOUNTABLE CURB PER DETAIL 1c ON SHEET C4.0
33. 125 LF MOUNTABLE CURB PER DETAIL 1c ON SHEET C4.0
34. 35 LF TYPICAL CURB WITH CURB CUTS PER DETAIL 1a ON SHEET C4.0
35. 37 LF TYPICAL CURB WITH CURB CUTS PER DETAIL 1a ON SHEET C4.0
36. 16 LF CURB TRANSITION
37. 19 LF CURB TRANSITION
38. 11 LF CURB WITH NO CURB CUTS PER DETAIL 1g ON SHEET C4.0
39. 163 LF CURB WITH ATTACHED SIDEWALK PER DETAIL 1b ON SHEET C4.0
40. 112 LF TYPICAL CURB WITH CURB CUTS PER DETAIL 1a ON SHEET C4.0
41. 64 LF CURB WITH NO CURB CUTS PER DETAIL 1g ON SHEET C4.0
42. 20 LF CURB TRANSITION
43. 231 LF TYPICAL CURB WITH CURB CUTS PER DETAIL 1a ON SHEET C4.0
44. 139 LF CURB & GUTTER PER DETAIL 1d ON SHEET C4.0
45. 25 LF CURB TRANSITION
46. 40 LF CURB & GUTTER AT NORTH HYDRANT PER DETAIL 1e ON SHEET C4.0
47. 218 LF CURB & GUTTER PER DETAIL 1d ON SHEET C4.0
48. 259 LF TYPICAL CURB WITH CURB CUTS PER DETAIL 1a ON SHEET C4.0
49. 100 LF TYPICAL CURB WITH CURB CUTS PER DETAIL 1a ON SHEET C4.0
50. 42 LF CURB WITH NO CURB CUTS PER DETAIL 1g ON SHEET C4.0



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HOLLISTER, CA 95023
REF. PLAN CHECK # XXXXX

FOR REFERENCE ONLY

NAME:	TJ KELLEY
LICENSE NUMBER:	CIVIL - 84966
SIGNATURE DATE:	N/A
ISSUE DATE:	June 2025
PROJ #:	24025
TIME STAMP:	6/27/2025 4:28 PM
FILE:	K:\Projects 2024\24025 - Hippo Harvest\bal\24025 Hippo Harvest - BMP Phase 1 C2.1 Building and Parking Lot Grading.dwg

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BUILDING AND PARKING LOT GRADING PLAN

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SHEET NO:
C2.1

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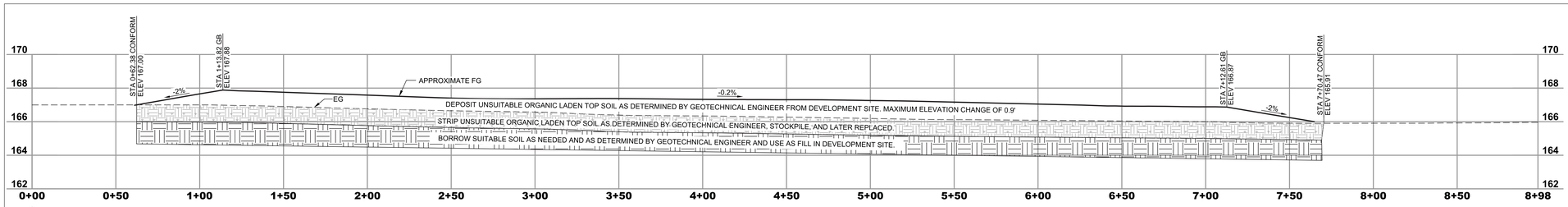
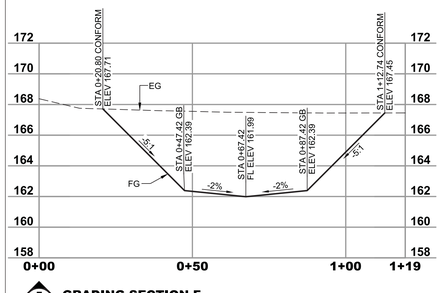
BID SET #1 - ADDENDUM 2



G C3 **GRADING SECTION G**
SCALE: H: 1" = 30' V: 1" = 5' (10x)



F C3 **GRADING SECTION F**
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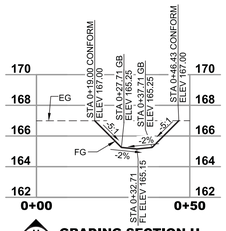

H C3 **GRADING SECTION H**
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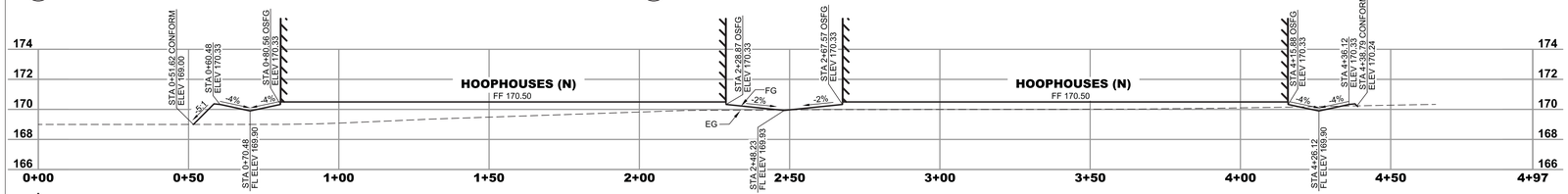
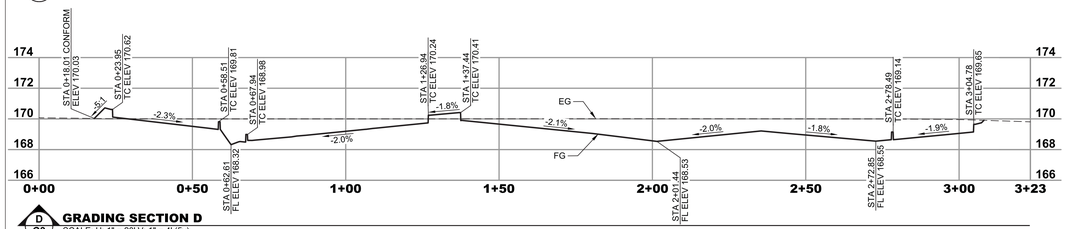
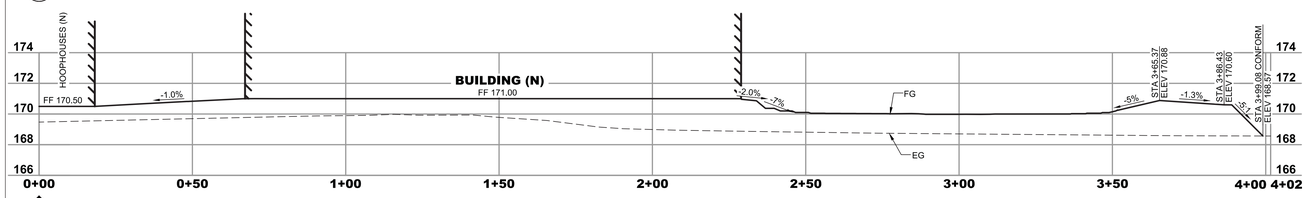


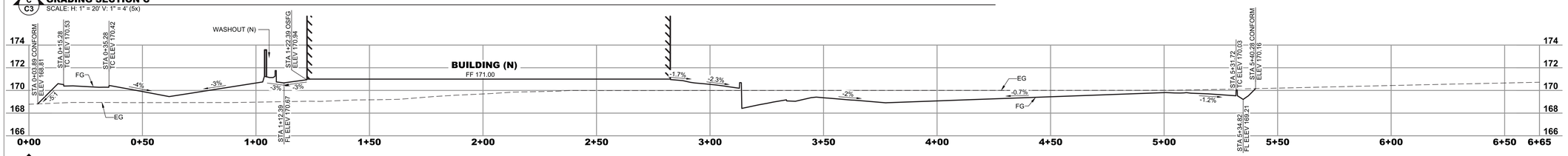
E C3 **GRADING SECTION E**
SCALE: H: 1" = 20' V: 1" = 4' (5x)



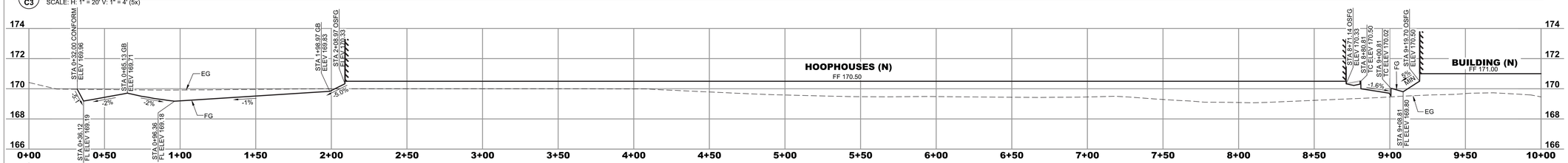
D C3 **GRADING SECTION D**
SCALE: H: 1" = 20' V: 1" = 4' (5x)



C C3 **GRADING SECTION C**
SCALE: H: 1" = 20' V: 1" = 4' (5x)



B C3 **GRADING SECTION B**
SCALE: H: 1" = 20' V: 1" = 4' (5x)



A C3 **GRADING SECTION A**
SCALE: H: 1" = 30' V: 1" = 3' (10x)

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HIPPO HARVEST
HOLLISTER, CA
2370 SHORE ROAD
HOLLISTER, CA 95023
REF. PLAN CHECK # XXXXX

FOR REFERENCE ONLY

NAME:	TJ KELLEY
LICENSE NUMBER:	CIVIL - 84966
SIGNATURE DATE:	N/A
ISSUE DATE:	June 2025
PROJ #:	24025
TIME STAMP:	6/27/2025 2:22 PM
FILE:	K:\Projects 2024\24025 - Hippo Harvest\dwg\24025 Hippo Harvest - BIP Phase 1 C3.0 Grading Sections.dwg

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SHEET NO:

C3.0

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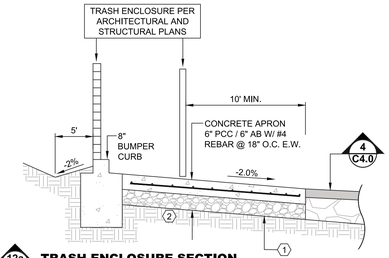
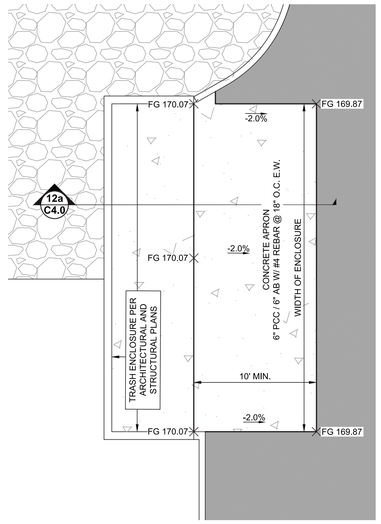
BID SET #1 - ADDENDUM 2

KEY NOTES

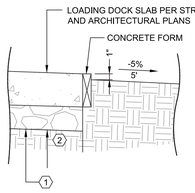
1. FOR PAVED AREAS, ALL UNDERLYING SUBGRADE SHOULD BE PROCESSED TO A MINIMUM DEPTH OF 6 INCHES AND COMPACTED TO 95% RELATIVE COMPACTION. THIS SHOULD EXTEND A MINIMUM OF 2' LATERALLY FROM ALL PAVED AREAS.
2. MIMIMUM OF 24" OF ENGINEERED FILL PER GEOTECHNICAL REPORT.
3. 6" AB AT PARKING LOT OR
   4" PCC / 4" AB / 24" ENGINEERED FILL AT WALKWAYS OR
   SEE DETAIL 4 ON THIS SHEET FOR TYPICAL PAVEMENT SECTION AT DRIVE AISLE



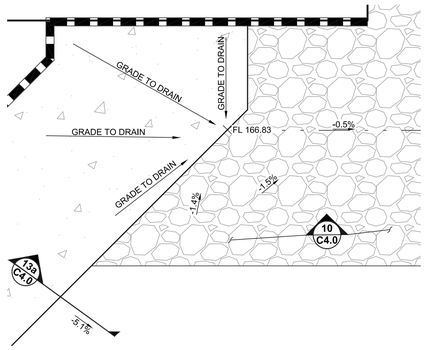
12a C4.0 TRASH ENCLOSURE SECTION
NOT TO SCALE



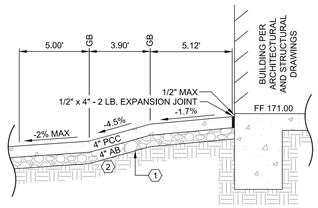
12 C4.0 TRASH ENCLOSURE DETAIL
SCALE: 1" = 5'



13a C4.0 EASTERN TRUCK LOADING PITS EDGE
NOT TO SCALE



13 C4.0 EASTERN TRUCK LOADING PITS DETAIL
SCALE: 1" = 5'



14a C4.0 MAIN ENTRANCE AREA SECTION
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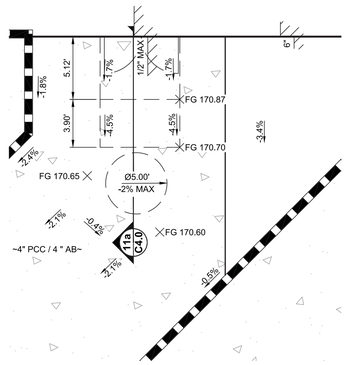
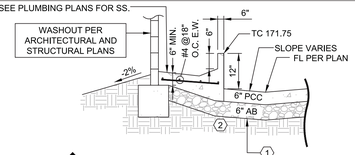


14 C4.0 MAIN ENTRANCE AREA DETAIL
SCALE: 1" = 5'

GRADE TO DRAIN TO SS. SEE PLUMBING PLANS FOR SS.



15b C4.0 WASHOUT SECTION
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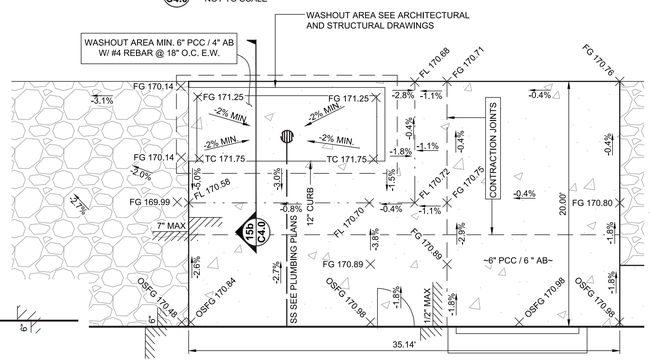

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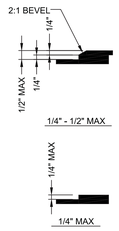

15 C4.0 ACCESSIBLE CHANGES IN LEVEL
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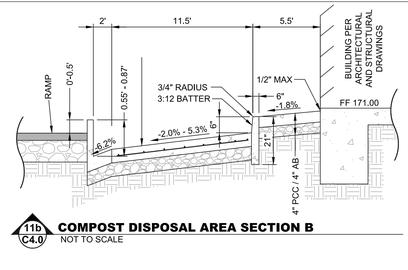

11b C4.0 COMPOST DISPOSAL AREA SECTION B
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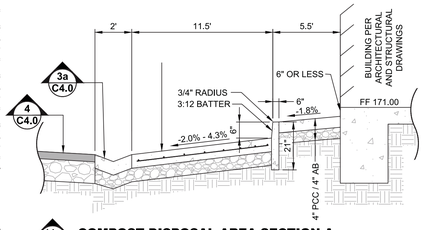

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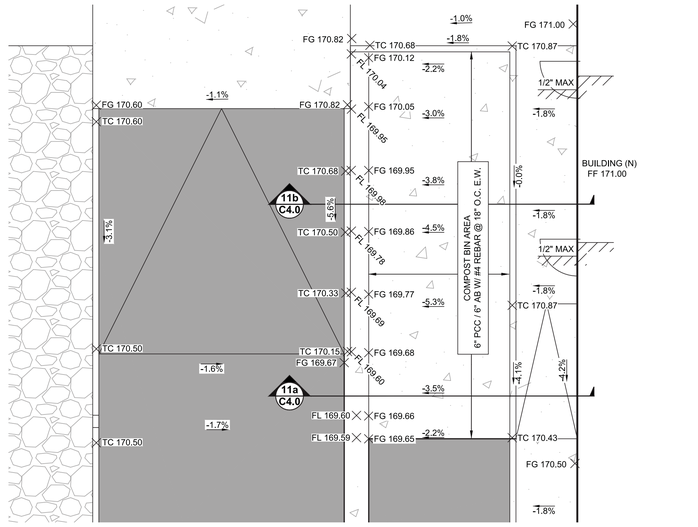
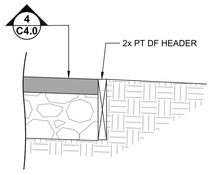


11 C4.0 COMPOST DISPOSAL AREA DETAIL
SCALE: 1" = 5'



7 C4.0 PAVEMENT EDGE AT LANDSCAPING
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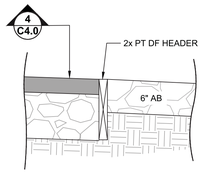

8 C4.0 PAVEMENT EDGE AT PARKING
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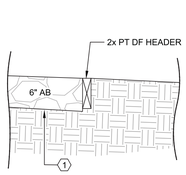

9 C4.0 PARKING LOT GRADING EDGE
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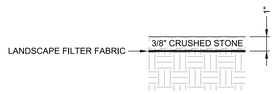

10 C4.0 20' BUFFER ZONE SURFACE TREATMENT
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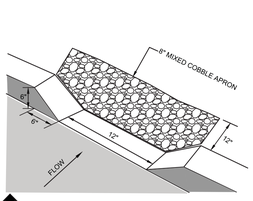

2 C4.0 CURB CUT DETAIL
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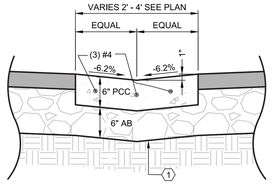
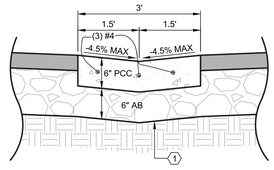
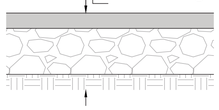


3a C4.0 TYPICAL VALLEY GUTTER
NOT TO SCALE

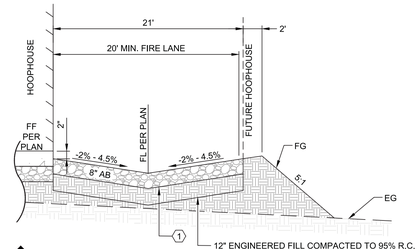


3b C4.0 ADA COMPLIANT VALLEY GUTTER CROSSING
NOT TO SCALE



NOTES:
1. HOT MIX ASPHALT (HMA) SHOULD CORRESPOND TO CALTRANS TYPE A SPECIFICATION.
2. ALL HMA SHOULD COMPACTED TO A MINIMUM OF 95% COMPACTION BASED ON BULK DENSITY.
3. ALL AGGREGATE BASE (AB) SHALL CONSIST OF 3/4" CLASS 2 BASED ON CALTRANS SECTION 26-1.
4. ALL UNDERLYING SUBGRADE SHOULD BE PROCESSED TO A MINIMUM DEPTH OF 6 INCHES AND COMPACTED TO 95% RELATIVE COMPACTION. THIS SHOULD EXTEND A MINIMUM OF 2' LATERALLY FROM ALL PAVED AREAS.

4 C4.0 TYPICAL PAVEMENT SECTION
NOT TO SCALE



5 C4.0 TYPICAL AB FIRE ROAD
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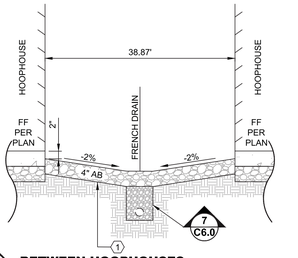

6 C4.0 BETWEEN HOOPHOUSES
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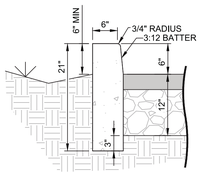
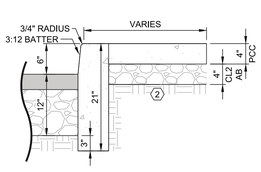
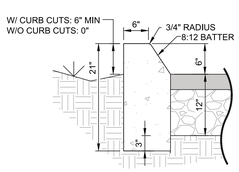


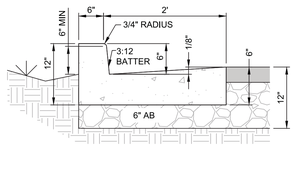
1a C4.0 TYPICAL CURB DETAIL AT LANDSCAPING W/ CURB CUTS
NOT TO SCALE



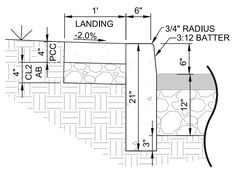
1b C4.0 CURB DETAIL AT ATTACHED SIDEWALK
NOT TO SCALE



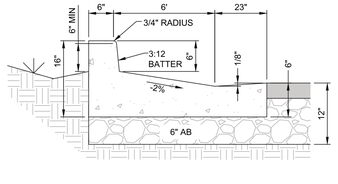
1c C4.0 MOUNTABLE CURB DETAIL AT LANDSCAPING
NOT TO SCALE



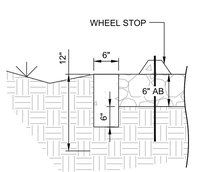
1d C4.0 CURB & GUTTER DETAIL AT LANDSCAPING WITH CURB CUTS
NOT TO SCALE



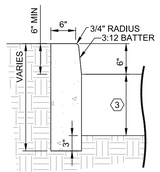
1e C4.0 CURB AND LANDING DETAIL NEXT TO PARKING SPACES ADJACENT TO LANDSCAPE STRIP
NOT TO SCALE



1e C4.0 CURB & GUTTER DETAIL AT NORTH HYDRANT
NOT TO SCALE



1f C4.0 FLUSH CURB DETAIL
NOT TO SCALE



1g C4.0 CURB DETAIL WITH NO CURB CUTS
NOT TO SCALE

CURB DETAIL NOTES:

1. THESE NOTES APPLY TO ALL CURB DETAILS.
2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE GREENBOOK 2021 EDITION.
3. TOP AND FRONT OF ALL CURBS SHALL BE FINE BROOM FINISHED.
4. INSTALL EXPANSION BOARD AT BC, EC, AND 30' INTERVALS MAX ON CURBS. FOR FULL DEPTH PROVIDE WEAKENED PLANE JOINTS AT 10 FOOT INTERVALS.
5. CLASS "520-C-2500" CONCRETE SHALL BE USED.
6. SUBGRADE SHALL BE COMPACTED TO 95% R.C. TO A DEPTH OF 6".
7. CURB AND SIDEWALK ARE MONOLITHIC.

1 C4.0 CURB DETAILS
NOT TO SCALE

BID SET #1 - ADDENDUM 2

In accordance with section 6735 (a) of the Professional Engineer's Act these plans are

PRELIMINARY

and therefore do not bear the signature and seal of a registered civil engineer.

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REF. PLAN CHECK # XXXXX

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NAME:	TJ KELLEY
LICENSE NUMBER:	CIVIL - 84966
SIGNATURE DATE:	N/A
ISSUE DATE:	June 2025
PROJ #:	24025
TIME STAMP:	6/27/2025 4:38 PM
FILE:	K:\Projects 2024\24025 - Hippo Harvest\bid\pw\24025 Hippo Harvest - BMP Phase 1 CALE Grading Details.dwg

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Structure Table	
Structure Name	Structure Specification
CB #01	12" ADS NYLOPLAST INLINE DRAIN DOMED DUCTILE IRON FRAME GRATE 12" HP ELBOW - 90 DEG
CB #02	12" ADS NYLOPLAST INLINE DRAIN DOMED DUCTILE IRON FRAME GRATE 12" HP ELBOW - 90 DEG
CB #03	12" ADS NYLOPLAST INLINE DRAIN DOMED DUCTILE IRON FRAME GRATE 12" TEE #1264WT
CB #04	12" ADS NYLOPLAST INLINE DRAIN DOMED DUCTILE IRON FRAME GRATE 12" HP ELBOW - 90 DEG
CB #05	12" ADS NYLOPLAST INLINE DRAIN WITH DOMED DUCTILE IRON FRAME GRATE 12" HP ELBOW - 90 DEG
CB #06	12" ADS NYLOPLAST INLINE DRAIN DOMED DUCTILE IRON FRAME GRATE 12" HP ELBOW - 90 DEG
CB #07	12" ADS NYLOPLAST INLINE DRAIN WITH DOMED DUCTILE IRON FRAME GRATE 12" HP ELBOW - 90 DEG
CB #08	12" ADS NYLOPLAST INLINE DRAIN WITH DOMED DUCTILE IRON FRAME GRATE 12" HP ELBOW - 90 DEG
CB #09	12" ADS NYLOPLAST INLINE DRAIN WITH STANDARD H-20 DUCTILE IRON FRAME GRATE 12" HP ELBOW - 90 DEG
CB #10	12" ADS NYLOPLAST INLINE DRAIN DOMED DUCTILE IRON FRAME GRATE 12" TEE #1264WT
CB #11	12" ADS NYLOPLAST INLINE DRAIN STANDARD H-20 DUCTILE IRON FRAME GRATE 12" HP ELBOW - 90 DEG

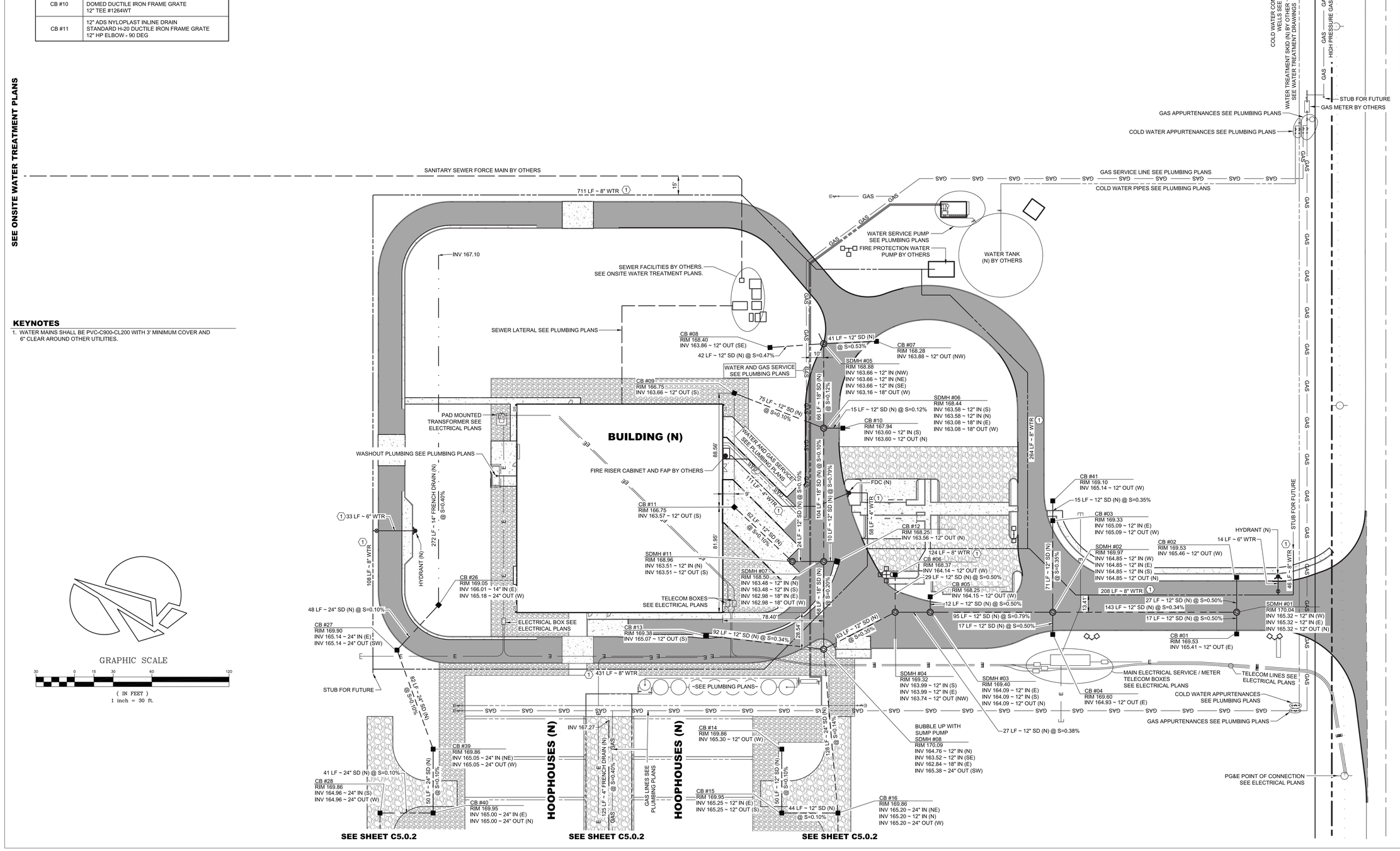
Structure Table	
Structure Name	Structure Specification
CB #12	12" ADS NYLOPLAST INLINE DRAIN STANDARD H-20 RATED DUCTILE IRON GRATE 12" HP ELBOW - 90 DEG
CB #13	12" ADS NYLOPLAST INLINE DRAIN STANDARD H-20 DUCTILE IRON FRAME GRATE 12" HP ELBOW - 90 DEG
CB #14	12" ADS NYLOPLAST INLINE DRAIN DOMED DUCTILE IRON FRAME GRATE 12" HP ELBOW - 90 DEG
CB #15	12" Ø ADS NYLOPLAST DRAIN BASIN DOMED DUCTILE IRON FRAME GRATE
CB #16	30" Ø ADS NYLOPLAST DRAIN BASIN STANDARD H-20 RATED DUCTILE IRON GRATE
CB #26	24" ADS NYLOPLAST DRAIN BASIN DOMED DUCTILE IRON FRAME GRATE
CB #27	30" Ø ADS NYLOPLAST DRAIN BASIN DOMED DUCTILE IRON FRAME GRATE
CB #28	24" Ø ADS NYLOPLAST DRAIN BASIN STANDARD H-20 DUCTILE IRON FRAME GRATE
CB #39	24" Ø ADS NYLOPLAST DRAIN BASIN DOMED DUCTILE IRON FRAME GRATE
CB #40	24" Ø ADS NYLOPLAST DRAIN BASIN DOMED DUCTILE IRON FRAME GRATE
CB #41	12" ADS NYLOPLAST INLINE DRAIN DOMED DUCTILE IRON FRAME GRATE 12" HP ELBOW - 90 DEG

Structure Table	
Structure Name	Structure Specification
SDMH #01	15" Ø ADS NYLOPLAST DRAIN BASIN H-20 TRAFFIC LOAD SQUARE SOLID DUCTILE IRON LID
SDMH #02	15" Ø ADS NYLOPLAST DRAIN BASIN H-20 TRAFFIC LOAD SQUARE SOLID DUCTILE IRON LID
SDMH #03	15" Ø ADS NYLOPLAST DRAIN BASIN H-20 TRAFFIC LOAD SQUARE SOLID DUCTILE IRON LID
SDMH #04	15" Ø ADS NYLOPLAST DRAIN BASIN H-20 TRAFFIC LOAD SQUARE SOLID DUCTILE IRON LID
SDMH #05	24" Ø ADS NYLOPLAST DRAIN BASIN H-20 TRAFFIC LOAD SOLID DUCTILE IRON LID
SDMH #06	30" Ø ADS NYLOPLAST DRAIN BASIN H-20 TRAFFIC LOAD SOLID DUCTILE IRON LID
SDMH #07	24" Ø ADS NYLOPLAST DRAIN BASIN H-20 TRAFFIC LOAD SOLID DUCTILE IRON LID
SDMH #08	36" Ø ADS NYLOPLAST DRAIN BASIN SOLID DUCTILE IRON LID
SDMH #11	15" Ø ADS NYLOPLAST DRAIN BASIN H-20 TRAFFIC LOAD SQUARE SOLID DUCTILE IRON LID

SEE ONSITE WATER TREATMENT PLANS

KEYNOTES

1. WATER MAINS SHALL BE PVC-C900-CL200 WITH 3' MINIMUM COVER AND 6" CLEAR AROUND OTHER UTILITIES.



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and therefore do not bear the signature and seal of a registered civil engineer.

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FOR REFERENCE ONLY

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ISSUE DATE:	June 2025
PROJ #:	24025
TIME STAMP:	6/27/2025 4:41 PM
FILE:	K:\Projects 2024\24025 - Hippo Harvest\bim\24025 Hippo Harvest - BIP Phase 1 C5.0.1 Utility Plan.dwg

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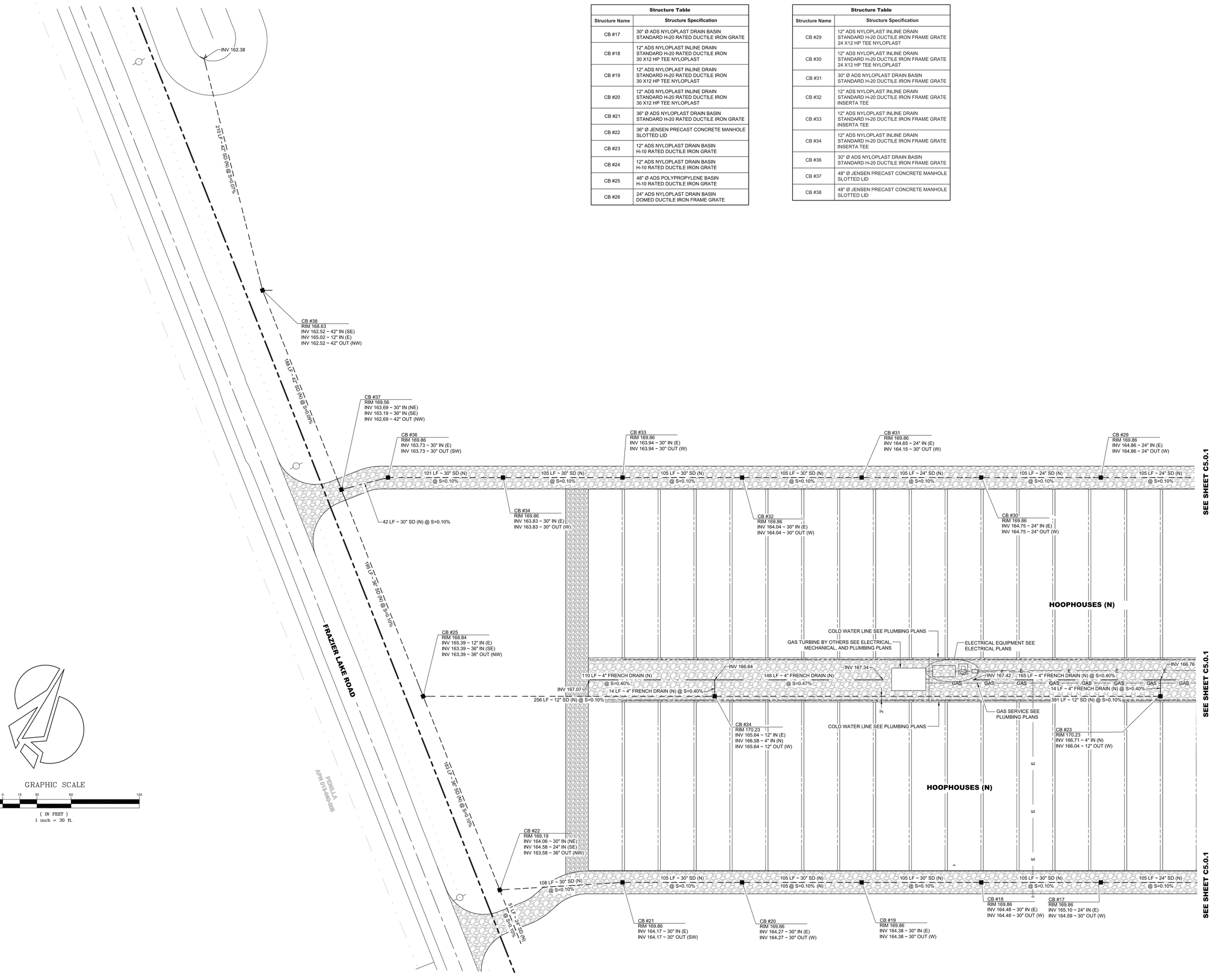
BID SET #1 - ADDENDUM 2

Structure Table	
Structure Name	Structure Specification
CB #17	30" Ø ADS NYLOPLAST DRAIN BASIN STANDARD H-20 RATED DUCTILE IRON GRATE
CB #18	12" ADS NYLOPLAST INLINE DRAIN STANDARD H-20 RATED DUCTILE IRON 30 X12 HP TEE NYLOPLAST
CB #19	12" ADS NYLOPLAST INLINE DRAIN STANDARD H-20 RATED DUCTILE IRON 30 X12 HP TEE NYLOPLAST
CB #20	12" ADS NYLOPLAST INLINE DRAIN STANDARD H-20 RATED DUCTILE IRON 30 X12 HP TEE NYLOPLAST
CB #21	36" Ø ADS NYLOPLAST DRAIN BASIN STANDARD H-20 RATED DUCTILE IRON GRATE
CB #22	36" Ø JENSEN PRECAST CONCRETE MANHOLE SLOTTED LID
CB #23	12" ADS NYLOPLAST DRAIN BASIN H-10 RATED DUCTILE IRON GRATE
CB #24	12" ADS NYLOPLAST DRAIN BASIN H-10 RATED DUCTILE IRON GRATE
CB #25	48" Ø ADS POLYPROPYLENE BASIN H-10 RATED DUCTILE IRON GRATE
CB #26	24" ADS NYLOPLAST DRAIN BASIN DOMED DUCTILE IRON FRAME GRATE

Structure Table	
Structure Name	Structure Specification
CB #29	12" ADS NYLOPLAST INLINE DRAIN STANDARD H-20 DUCTILE IRON FRAME GRATE 24 X12 HP TEE NYLOPLAST
CB #30	12" ADS NYLOPLAST INLINE DRAIN STANDARD H-20 DUCTILE IRON FRAME GRATE 24 X12 HP TEE NYLOPLAST
CB #31	30" Ø ADS NYLOPLAST DRAIN BASIN STANDARD H-20 DUCTILE IRON FRAME GRATE
CB #32	12" ADS NYLOPLAST INLINE DRAIN STANDARD H-20 DUCTILE IRON FRAME GRATE INSERTA TEE
CB #33	12" ADS NYLOPLAST INLINE DRAIN STANDARD H-20 DUCTILE IRON FRAME GRATE INSERTA TEE
CB #34	12" ADS NYLOPLAST INLINE DRAIN STANDARD H-20 DUCTILE IRON FRAME GRATE INSERTA TEE
CB #36	30" Ø ADS NYLOPLAST DRAIN BASIN STANDARD H-20 DUCTILE IRON FRAME GRATE
CB #37	48" Ø JENSEN PRECAST CONCRETE MANHOLE SLOTTED LID
CB #38	48" Ø JENSEN PRECAST CONCRETE MANHOLE SLOTTED LID



GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

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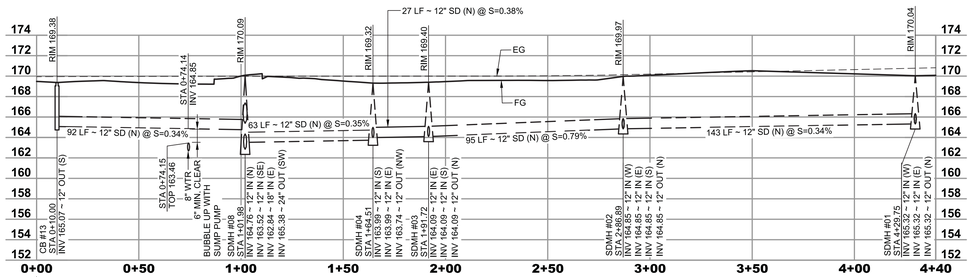
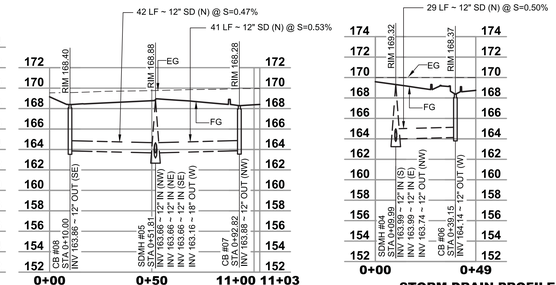


H C5.1 **STORM DRAIN PROFILE CB #22 - SDMH #08**
SCALE: H: 1" = 30' V: 1" = 6' (5x)



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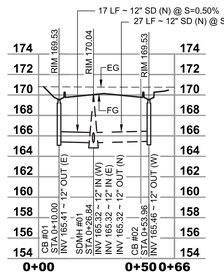

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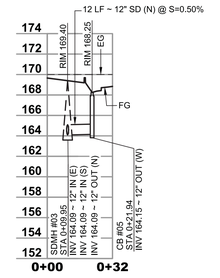

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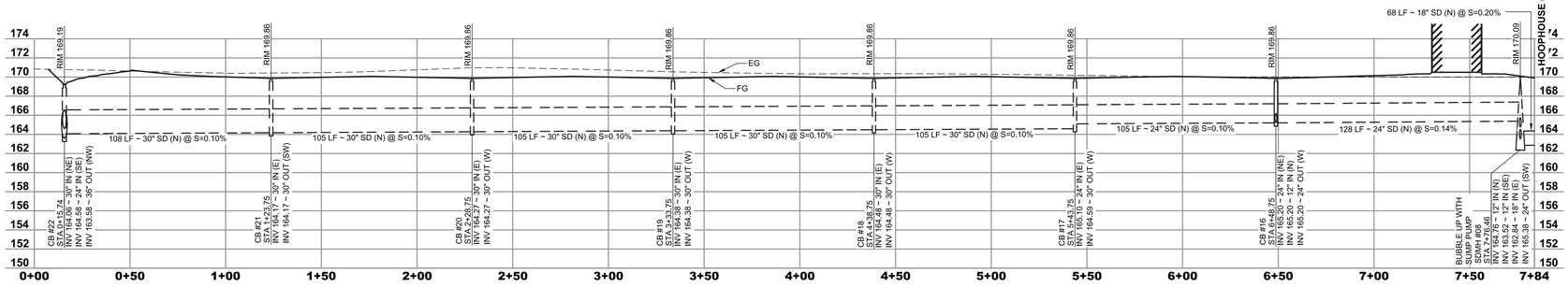

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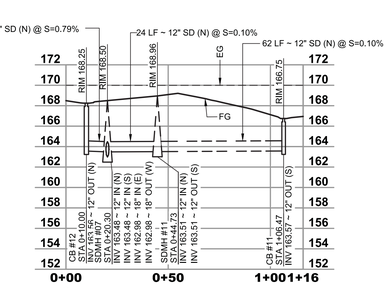

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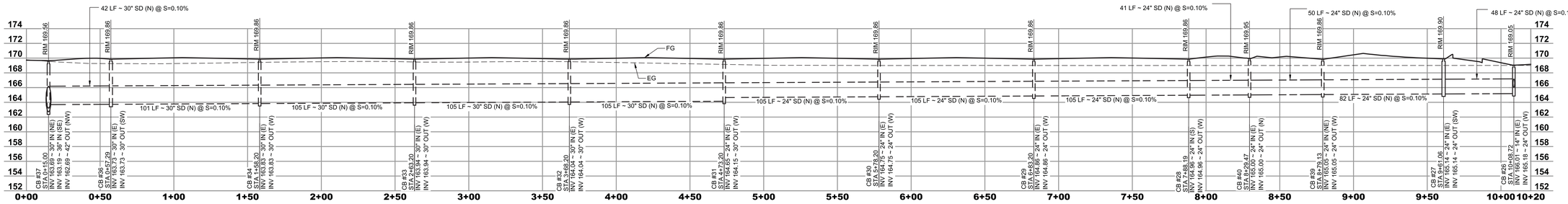

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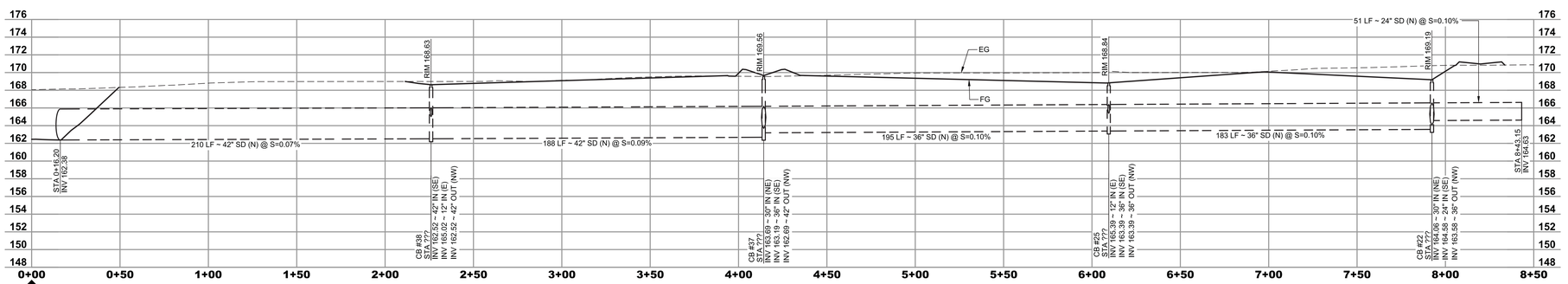

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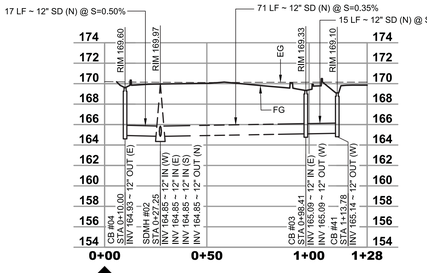

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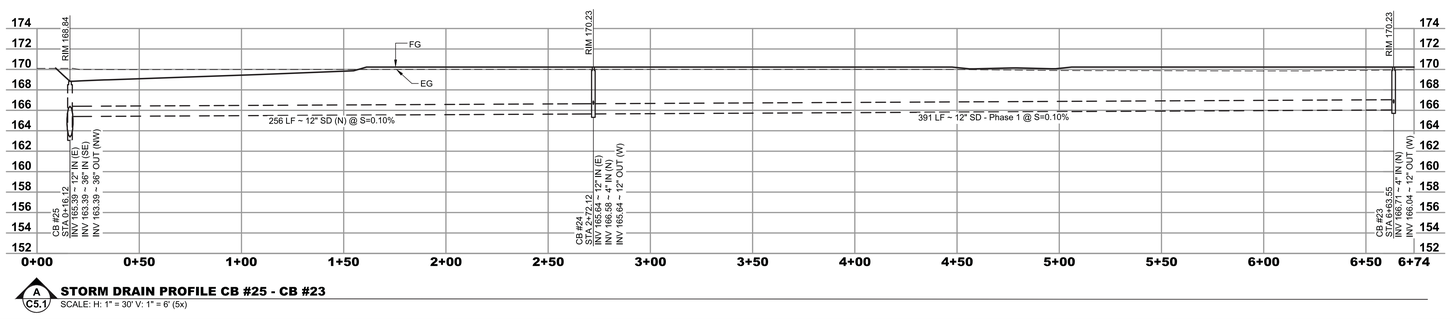

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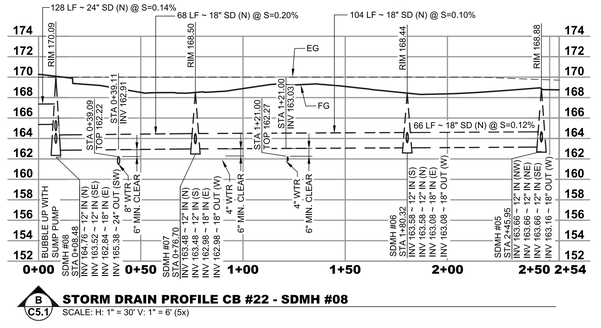

B C5.1 **STORM DRAIN PROFILE CB #22 - SDMH #08**
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REF. PLAN CHECK # XXXXX

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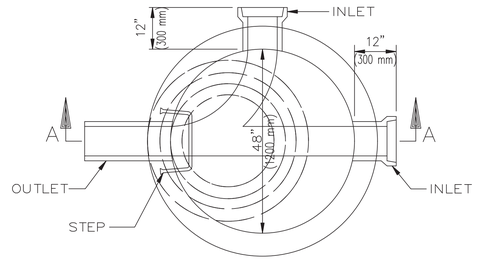

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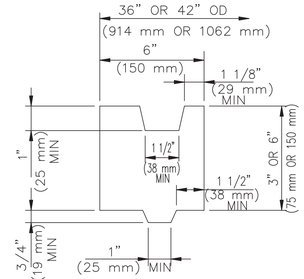

ADJUSTING
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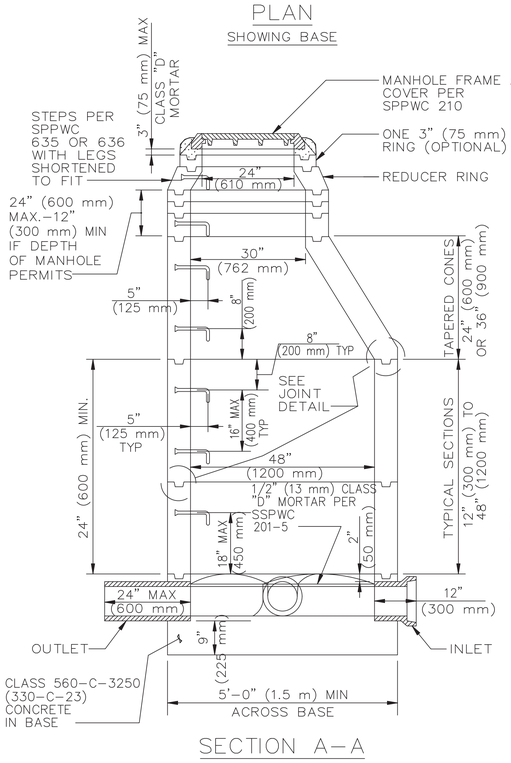

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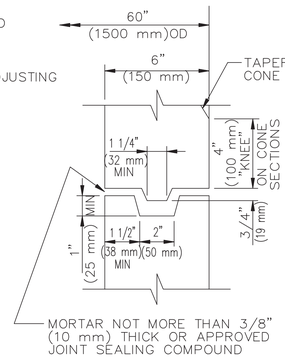
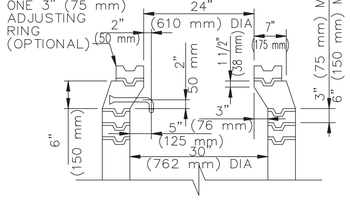
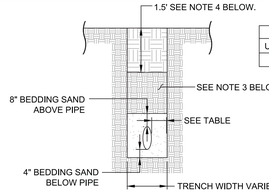


JOINT DETAIL
NON–REINFORCED



REDUCER RING AND
ADJUSTING RINGS



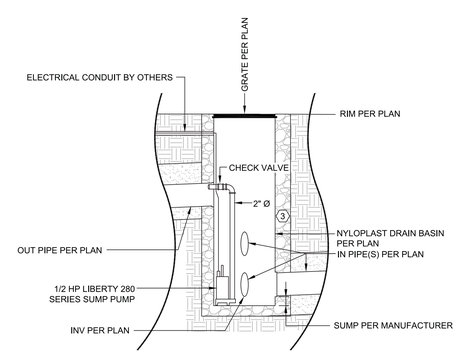
NOMINAL PIPE SIZE	SIDE CLEARANCE
UP TO AND INCLUDING 15"	6" MIN - 10" MAX
OVER 15"	8" MIN - 12" MAX

NOTES:
1. UTILITY TRENCHES SHALL BE BACKFILLED TO COUNTY OF SAN BENITO STANDARDS.
2. BACKFILL OF ALL EXTERIOR AND INTERIOR TRENCHES SHOULD BE PLACED IN THIN LIFTS NOT TO EXCEED 8 INCHES AND MECHANICALLY COMPACTED TO ACHIEVE A RELATIVE COMPACTION OF NOT LESS THAN 95% IN PACED AREAS AND 90% IN OTHER AREAS PER ASTM D1557. CARE SHOULD BE TAKE NOT TO DAMAGE UTILITY LINES.
3. THE ON-SITE NATIVE SOILS MAY BE UTILIZED FOR TRENCH BACKFILL ABOVE THE BEDDING SAND.
4. TRENCHES SHOULD BE CAPPED WITH 1 1/2 FEET OF RELATIVELY IMPERMEABLE MATERIAL. IMPORT MATERIAL MUST BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO ITS USE.

14 C6.0 TRENCH AND BACKFILL DETAIL

KEY NOTES

1. MIMIMUM OF 24" OF ENGINEERED FILL PER GEOTECHNICAL REPORT.
2. CLASS 1 BACKFILL & BEDDING PER ASTM D2321 MATERIAL SHALL BE WELL PLACED UNIFORMALY AROUND STRUCTURE AND INLET CONNECTIONS AND COMPACTED IN 8" MAX LIFTS.
3. THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS I, CLASS II, OR CLASS III MATERIAL AS DEFINED IN ASTM D2321. BEDDING & BACKFILL FOR SURFACE DRAINGAGE INLETS SHALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDINACE WITH ASTM D2321.



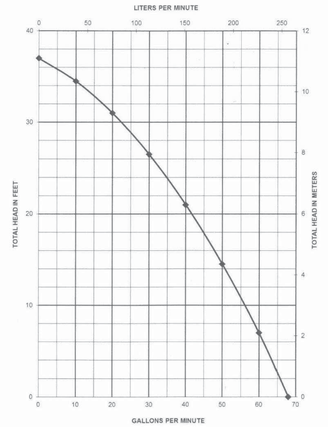
13 C6.0 SDMH #08 BUBBLE UP WITH SUMP PUMP DETAIL, SPECIFICATIONS, AND CALCULATION
NOT TO SCALE

Liberty Pumps

Pump Specifications

280 Series 1/2 hp Submersible Effluent Pump





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Liberty Pumps

KELLEY
ENGINEERING & SURVEYING
400 Park Center Drive, Suite #4
Hollister, CA 95023
831-636-1104/Fax 831-636-1837

JOB HIPPO HARVEST 24025
SHEET NO. 1 OF 1
CALCULATED BY MJK DATE 6/2/2025
CHECKED BY DATE

STORM DRAIN SUMP PUMP DESIGN

VOLUME = 1350 CF = 11,000 GAL
ΔT = 72 HOURS = 4320 MIN

MIN. RATE = 11,000/4320 = 2.5 GAL/MIN.

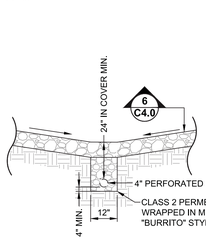
CHECK 24 HR RATE 11,000/1440 = 8 GAL/MIN

ΔH = 20 PT MAX @ 10 PSI BHP=(HEAD×FLOW×SG)/(3960 × EFF) = 20×8×1 / 3960 × 0.85 = 0.05 HP

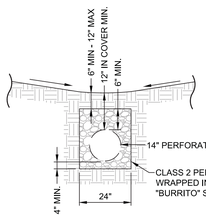
SELECT ½ HP PUMP - LIBERTY 280 SERIES

∴ STORM SYSTEM WILL DRAIN < 24 HRS

REGISTERED PROFESSIONAL ENGINEER MATTHEW J. KELLEY 62098 EXP. 9/30/25 CIVIL STATE OF CALIFORNIA

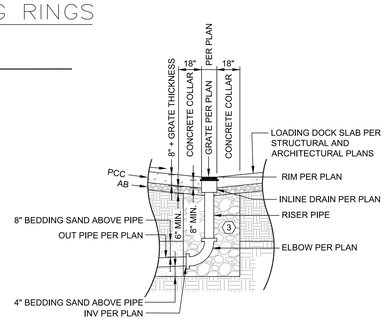


12 C6.0 48" PRE-CAST CONCRETE MANHOLE
NOT TO SCALE

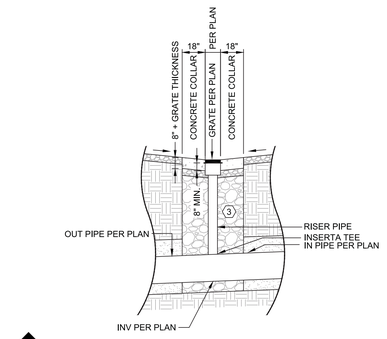


7 C6.0 FRENCH DRAIN BETWEEN GREENHOUSES
NOT TO SCALE

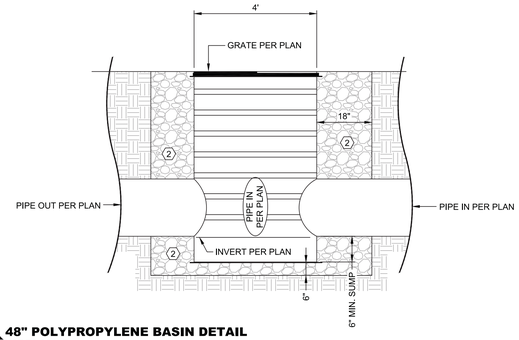
8 C6.0 14" Ø FRENCH DRAIN
NOT TO SCALE



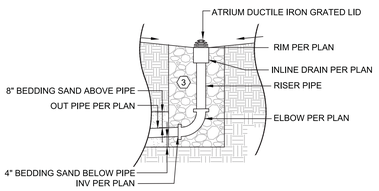
9 C6.0 INLINE DRAIN IN VALLEY GUTTER WITH ELBOW
NOT TO SCALE



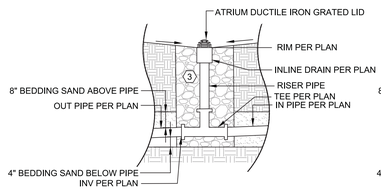
10 C6.0 INLINE DRAIN IN FIRE ACCESS ROAD WITH INSERTA TEE
NOT TO SCALE



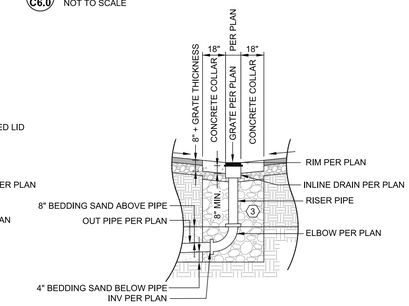
11 C6.0 48" POLYPROPYLENE BASIN DETAIL
NOT TO SCALE



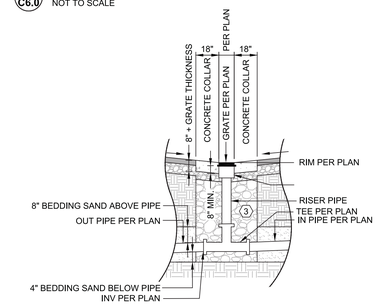
1 C6.0 INLINE DRAIN IN LANDSCAPING WITH ELBOW
NOT TO SCALE



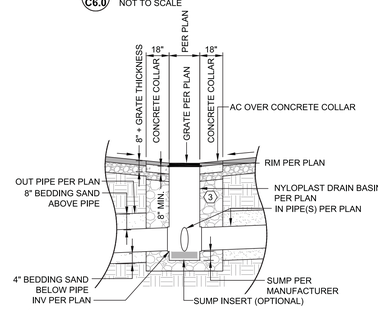
2 C6.0 INLINE DRAIN IN LANDSCAPING WITH TEE
NOT TO SCALE



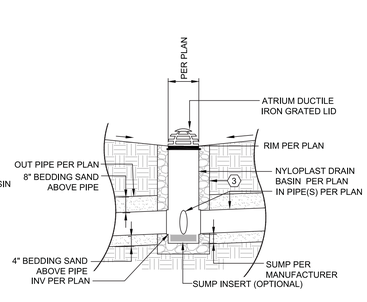
3 C6.0 INLINE DRAIN IN VALLEY GUTTER WITH ELBOW
NOT TO SCALE



4 C6.0 INLINE DRAIN IN FIRE ACCESS ROAD WITH TEE
NOT TO SCALE



5 C6.0 TRAFFIC RATED NYLOPLAST DRAIN BASIN
NOT TO SCALE



6 C6.0 NYLOPLAST DRAIN BASIN IN LANDSCAPING
NOT TO SCALE

BID SET #1 - ADDENDUM 2

In accordance with section 6735 (a) of the Professional Engineer's Act these plans are

PRELIMINARY

and therefore do not bear the signature and seal of a registered civil engineer.

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ARCHITECT:	BALIAN ARCHITECTS, INC. 21 Miller Alley, Suite 210 Pasadena CA 91105 www.balianarchitects.com Contact: David Balian T: 213.377.5500 E-Mail: david@balianarchitects.com
OWNER'S CONSULTANTS	
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MECH & PLUMB:	SEED SANTA CRUZ, INC., 130 Poort Alley Santa Cruz, CA 95060 www.seedsca.com Contact: Scott Shelton T: 831.291.2417 E-Mail: scottshelton@seedsca.com
LANDSCAPE & IRRIGATION	KAREN AITKEN & ASSOC., 8352 Rancho Real Gilroy, CA 95020 www.karenaitkenassociates.com Contact: Pam Jones T: 408.842.0245 E-Mail: pam@kaa.design.com
STRUCTURAL	PACIFIC ENGINEERING GROUP 9999 Blue Larkspur Lane, Ste. 104 Monterey, CA 93940 Contact: Arthur J. Werner T: 831.333.0644 E-Mail: ajw.peg93940@gmail.com

HIPPO HARVEST
HOLLISTER, CA
2370 SHORE ROAD
HOLLISTER, CA 95023
REF. PLAN CHECK # XXXXX

FOR REFERENCE ONLY

NAME:	TJ KELLEY
LICENSE NUMBER:	CIVIL - 84966
SIGNATURE DATE:	N/A
ISSUE DATE:	June 2025
PROJ #:	24025
TIME STAMP:	6/27/2025 2:54 PM
FILE:	K:\Projects 2024\24025 - Hippo Harvest\dwg\24025 Hippo Harvest - BAP Phase 1 CEQ Storm Drainage Details.dwg

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REVISIONS

#	DATE	ISSUE
0	-	-

SHEET TITLE :

STORM DRAINAGE DETAILS

IF THIS SHEET IS NOT 30"x42" IT IS A REDUCED PRINT
THIS SHEET IS INTENDED TO BE VIEWED IN COLOR

SHEET NO:
C6.0

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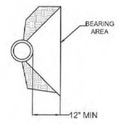
FOR BIDDING ONLY - NOT FOR CONSTRUCTION

THRUST BLOCK BEARING AREA REQUIRED-SQUARE FEET

TYPE OF FITTING		90° BEND	45° BEND	22.5° BEND	11.25° BEND	TEE	TEE W/PLUG	CROSS W/PLUG	CROSS W/PLUGS
TYPICAL INSTALLATION									
SIZE OF PIPE	6"	6	4	2	1	8	6	6	6
	8"	10	6	3	2	10	10	10	10
	10"	15	8	4	2	16	15	16	15
	12"	21	11	6	3	22	21	22	21



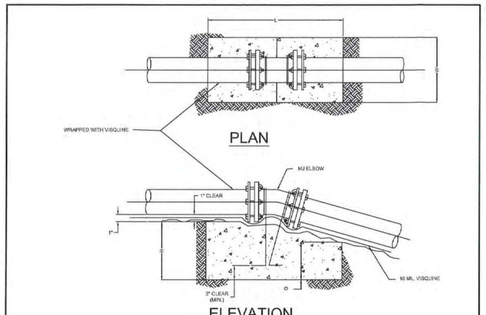
SECTION

NOTES

1. JOINTS, FITTINGS AND FACES OF PLUGS TO BE KEPT CLEAR OF CONCRETE USING 10 MIL VISQUINE.
2. BLOCKS MUST BE PLACED AGAINST UNDISTURBED SOIL.
3. THRUST BLOCKS SHALL BE CONSTRUCTED OF CLASS 520-C-2500 PCC.
4. STIRRUPS TO BE #4 REBAR EMBEDDED IN THRUST BLOCK TO A DEPTH EQUAL TO ½ OF PIPE OUTSIDE DIAMETER. STIRRUP HOOKS TO BE SHAPED 90° BEND WITH LENGTH EQUIVALENT TO ½ PIPE O.D.
5. THRUST BLOCK AREA IS BASED ON TEST PRESSURE OF 150 PSI AND A HORIZONTAL SOIL BEARING STRENGTH OF 1500 PSI.
6. EXPOSED STIRRUPS SHALL BE WRAPPED PVC TAPE 10 MIL.
7. MECHANICAL JOINT RESTRAINTS ARE ALLOWED WITH THE APPROVAL OF THE CITY ENGINEER.

TITLE:
THRUST BLOCK SCHEDULE

ADDED BY: STAFF	SCALE: NONE	APPROVED:	STANDARD PLAN
REVIEWED BY: DANNY HILLSTOCK	REVISED: OCTOBER, 2019	CITY ENGINEER: DANNY HILLSTOCK LIC. NO. 75947 DATE 11-5-19	B-9-1
CITY OF HOLLISTER ENGINEERING DIVISION			SHEET 1 OF 2



THRUST BLOCK DIMENSION-UPWARD THRUST

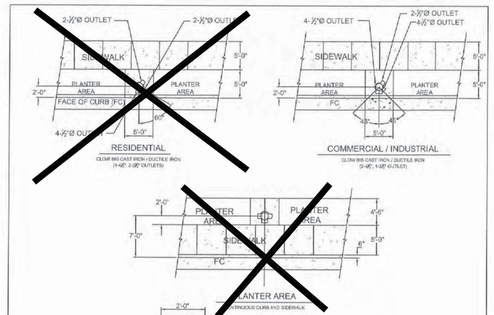
PIPE SIZE	11½° BEND					22½° BEND					45° BEND				
	L	W	H	G	BAR	L	W	H	G	BAR	L	W	H	G	BAR
6"	3.0	2.0	2.0	1.0	5	4.0	2.0	3.0	1.0	5	5.0	3.0	3.0	1.0	5
8"	3.5	2.5	2.0	1.0	5	4.5	3.0	3.0	1.0	5	6.0	3.0	4.0	1.5	5
10"	4.0	3.0	2.5	1.0	5	5.0	4.0	3.0	1.5	5	6.0	4.0	4.5	1.5	5
12"	4.0	3.5	3.0	1.5	5	5.0	4.0	3.5	2.0	5	7.0	4.0	5.0	2.5	5

NOTES:

1. DIMENSIONS L,W,H, AND G ARE IN FEET.
2. THRUST BLOCK DIMENSIONS BASED ON 150 PSI TEST PRESSURE AND CONCRETE OF 150 PCF.
3. EXPOSED STIRRUPS SHALL BE WRAPPED WITH 10 MIL VISQUINE.
4. THRUST BLOCKS SHALL BE CLASS 520-C-2500 PCC.
5. FLANGES, NUTS & BOLTS SHALL BE CLEAR OF CONCRETE.
6. MECHANICAL JOINT RESTRAINTS ARE ALLOWED WITH THE APPROVAL OF THE CITY ENGINEER.
7. STIRRUPS TO BE AS SHOWN IN TABLE ABOVE.

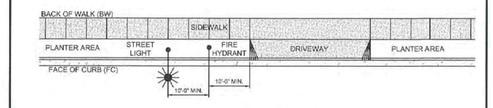
TITLE:
UPWARD THRUST BLOCK SCHEDULES

DRAWN BY: STAFF	SCALE: NONE	APPROVED:	STANDARD PLAN
REVIEWED BY: DANNY HILLSTOCK	REVISED: OCTOBER, 2019	CITY ENGINEER: DANNY HILLSTOCK LIC. NO. 75947 DATE 11-5-19	B-9-2
CITY OF HOLLISTER ENGINEERING DEPARTMENT			SHEET 2 OF 2



TITLE:
RESIDENTIAL - COMMERCIAL - INDUSTRIAL FIRE HYDRANT

DRAWN BY: STAFF	SCALE: NONE	APPROVED:	STANDARD PLAN
REVIEWED BY: DANNY HILLSTOCK	REVISED: OCTOBER, 2019	CITY ENGINEER: DANNY HILLSTOCK LIC. NO. 75947 DATE 11-5-19	B-1-1
CITY OF HOLLISTER ENGINEERING DEPARTMENT			SHEET 1 OF 2



STANDARD LOCATION OF FIRE HYDRANT

NOTES:

1. ~~ALL FIRE HYDRANT LOCATIONS SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO CONSTRUCTION. MINIMUM DISTANCE OF FIRE HYDRANT FROM DRIVEWAY IS 10 FEET. FIRE HYDRANT INSTALLATION IS NOT TO EXCEED 250' SPACING.~~
2. INSTALL FIRE HYDRANT MEETING THE FOLLOWING REQUIREMENTS, OR APPROVED EQUAL:

~~RESIDENTIAL~~	~~CLOW VALVE CO. 880~~	~~2-2½ INCH OUTLET~~	~~1-4½ INCH OUTLET~~
COMMERICAL/INDUSTRIAL	CLOW VALVE CO. 885	1-2½ INCH OUTLET	2-4½ INCH OUTLET

3. POSITIVE BREAK OFF VALVE ASSEMBLY SHALL BE CLOW LBIW LB400A DUCTILE IRON OR APPROVED EQUAL.
4. DUCTILE IRON FITTINGS AND COATING SHALL CONFORM WITH THE LATEST AWWA SPECIFICATIONS C153 AND SHALL BE CEMENT LINED PER AWWA STANDARD C104.
5. FIRE HYDRANT VALVE SHALL BE INSTALLED PER STANDARD PLAN NO. B-2.
6. FIRE HYDRANT VALVE SHALL HAVE A MINIMUM BEARING SURFACE OF 6 SQUARE FEET PER THRUST BLOCK TABLE.
7. THE ENTIRE FIRE HYDRANT ASSEMBLY SHALL PASS HYDROSTATIC PRESSURE TESTING, LEAKAGE TEST, AND BACTERIOLOGICAL TEST PER GREENBOOK PRIOR TO ACCEPTANCE BY CITY ENGINEER.
8. ALL HYDRANTS SHALL BE PAINTED WITH SAFETY YELLOW USING KELLY MOORE KEL-GUARD ENAMEL, OR APPROVED EQUAL, IN STRICT CONFORMANCE WITH MANUFACTURER'S REQUIREMENTS.
9. PAINT CURB WITH RED PAINT 10 FT. ON BOTH SIDES OF HYDRANT.
10. CONCRETE PAD CLASS 520-C-2500 ON EXISTING SIDEWALK. THE PAD ELEVATION SHALL BE SAME ELEVATION AS THE EXISTING ADJACENT SIDEWALK.
11. FIRE HYDRANT BLUE PAVEMENT MARKER SHALL BE LOCATED 12 INCHES FROM CENTERLINE TOWARDS THE FIRE HYDRANT. HYDRANTS NEAR INTERSECTIONS REQUIRE MARKERS ON EACH STREET.
12. WRAP THE BURIED PORTION OF THE FIRE HYDRANT WITH 10 MIL POLYETHYLENE SHEET.

TITLE:
FIRE HYDRANT LOCATION AND NOTES

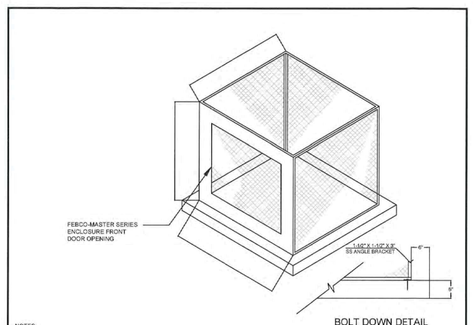
DRAWN BY: STAFF	SCALE:	APPROVED:	STANDARD PLAN
REVIEWED BY: DANNY HILLSTOCK	REVISED: OCTOBER, 2019	CITY ENGINEER: DANNY HILLSTOCK LIC. NO. 75947 DATE 11-5-19	B-1-2
CITY OF HOLLISTER ENGINEERING DEPARTMENT			SHEET 3 OF 3

NOTES:

1. ALL BACKFLOW PREVENTION DEVICES SHALL BE LEAD-FREE, REDUCED PRESSURE PRINCIPLE(RPP). ALL BPD'S SHALL BE APPROVED BY THE (AWWA) AMERICAN WATER WORKS ASSOCIATION AND INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS (IAPMO) AND BE ON THE MOST CURRENT LIST OF BPD'S AT TIME OF INSTALLATION. ENTIRE ASSEMBLIES, GATE VALVES, TEST COCKS, AND BYPASS METER SHALL BE PROVIDED AS A COMPLETE UNIT.
2. TEST COCKS FOR BACKFLOW PREVENTERS SHALL BE PROVIDED WITH ¾" MALE FLARE AND CAP.
3. BACKFLOW PREVENTERS SHALL BE SUPPORTED BY 2" DIAMETER GALVANIZED STEEL PIPE SADDLE SUPPORTS WITH FLANGE ADAPTERS BOLTED TO CONCRETE PAD. PRIME AND PAINT THE ASSEMBLY WITH COLOR MATCHING THE BACKFLOW PREVENTER, BEFORE PRIMING, TREAT PIPE SURFACE FOR OILS AND OXIDES OF ZINC.
4. ALL RPP BPDs SHALL CONFORM TO THOSE DEVICES INCLUDED ON THE MOST CURRENT AND UPDATE AWWA AND IAPVO LIST OF SUCH APPROVED BY THE CALIFORNIA DHS (DEPARTMENT OF HEALTH SERVICES) APPROVED LIST FOR BPDS.
5. ~~NO TEES OR OTHER CONNECTIONS SHALL BE PERMITTED BETWEEN THE PUBLIC WATER SUPPLY LINE AND APPROVED BPD. ALL BPD'S SHALL BE INSTALLED AS CLOSE AS POSSIBLE TO THE WATER MAIN.~~
6. OUTSIDE STEM AND YOKE (O. S & Y.) GATE VALVES REQUIRED ON FIRE SERVICE (U. L. LISTED) RATED TO BE AT 175 P. S. I. WORKING PRESSURE AND 350 P. S. I. HYDROSTATIC TEST PRESSURE HAND WHEELS ON O. S. & Y. VALVES SHALL BE CHAINED AND LOCKED. USE ¾" GALVANIZED CHAIN AND LOCK BETWEEN VALVES. CHAIN SHALL BE DOUBLE LOCKED, ONE LOCK WILL BE SUPPLIED BY THE CITY OF HOLLISTER.
7. THRUST BLOCK SHALL BE CLASS 520-C-2500 PCC.
8. ASSEMBLY SHALL BE PROTECTED BY 4"Ø BALLARDS WHEN LOCATED NEAR TRAFFIC OR AS DIRECTED BY THE ENGINEER.
9. AIR RELEASE VALVE SHALL BE APCO NO. 50, ¾" FOR 4" TO 6" SERVICE AND ¾" FOR 8" TO 12" SERVICES.
10. DEVICE MUST BE ACCESSIBLE FOR TESTING AND MAINTENANCE.
11. ALL ASSEMBLIES SHALL BE PROTECTED BY AN ENCLOSURE, SEE STANDARD PLAN B-4-3.
12. ALL PIPE SHALL BE DUCTILE IRON PIPE (DIP) AND ALL FITTINGS SHALL BE FLANGE TYPE.
13. A CERTIFIED BACKFLOW PREVENTION ASSEMBLY GENERAL TESTER ACCREDITED BY CALIFORNIA - NEVADA AWWA SHALL INSPECT BPD. LIST OF CERTIFIED TESTERS WILL BE PROVIDED BY THE CITY OF HOLLISTER UTILITY DIVISION. THE BPD'S SHALL BE INSPECTED AND APPROVED BY THE TESTER PRIOR THE UTILITY DIVISION PROVIDING POTABLE WATER BEYOND THE METER PROVIDE TEST REPORT EVERY YEAR AND FORWARD TO FIRE DEPARTMENT AND UTILITY DEPARTMENT.
14. TEST BACKFLOW PREVENTION DEVICE AND PROVIDE CERTIFICATE PRIOR TO ACCEPTANCE BY THE CITY.
15. ALL FITTINGS BELOW GRADE SHALL BE WRAPPED WITH 10 MIL. MINIMUM POLYETHYLENE SHEET.
16. ALL BOLTS SHALL BE TORQUED PER MANUFACTURER'S RECOMMENDATIONS. TORQUE TESTING SHALL BE VERIFIED BY SPECIAL INSPECTION.

TITLE:
BACKFLOW PREVENTION DEVICE FOR FIRE PROTECTION SYSTEM

DRAWN BY: STAFF	SCALE: NONE	APPROVED:	STANDARD PLAN
REVIEWED BY: DANNY HILLSTOCK	REVISED: OCTOBER, 2019	CITY ENGINEER: DANNY HILLSTOCK LIC. NO. 75947 DATE 11-5-19	B-4-2
CITY OF HOLLISTER ENGINEERING DEPARTMENT			SHEET 2 OF 3

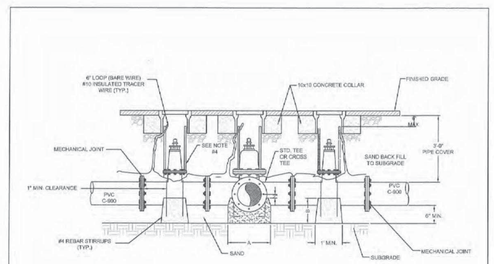


NOTES:

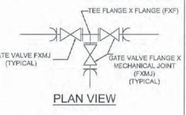
1. GATE TO BE AT END OF ENCLOSURE.
2. WHERE TWO BACKFLOW PREVENTION DEVICES (BPD'S) ARE INSTALLED IN PARALLEL, ENCLOSURE SHALL PROVIDE FOR MIN. CLEARANCES SHOWN ON S-4-1, AND PROVIDE DOUBLE GATE WITH DOUBLE DROP ROD FOR LATCHING.
3. ALL ENCLOSURES SHALL BE MILD STEEL BFE-62M, AND SHALL BE SECURED IN SUCH A MANNER AS TO PREVENT TAMPERING OR UNAUTHORIZED ENTRY.
4. CONCRETE PAD TO BE 520-C-2500 PCC. TOP OF PAD SHALL SLOPE TO EDGE AND BE SET 2" MINIMUM ABOVE EXISTING SOIL LEVEL.
5. MEDIUM BROOM FINISH ON CONCRETE PAD.
6. ALTERNATIVE ENCLOSURE MAY BE INSTALLED WITH APPROVAL OF THE ENGINEER.
7. ENCLOSURES REQUIRED ON ALL BACKFLOW PREVENTION DEVICE (BPD'S) GREATER THAN 2"Ø.
8. ANCHOR SHORT PORTION OF BRACKET TO CONCRETE PAD WITH 3/8" X 3" SS WEDGEANCHOR AND 3/8" X 2" SS BOLT WITH LOCK WASHER IN EACH OF FOUR(4) CORNERS. ANCHOR TO BE MIN. 9" FROM EDGE OF CONCENTRATED PAD.
9. CONNECT ANCHOR ENCLOSURE TO ANGLE BRACKET WITH TWO 3/8" X 1-1/2" TAMPER-RESISTANT BOLTS WITH NUTS AND LOCK WASHERS.

TITLE:
BACKFLOW PREVENTION DEVICE ENCLOSURE FOR FIRE PROTECTION SYSTEM

DRAWN BY: STAFF	SCALE: NONE	APPROVED:	STANDARD PLAN
REVIEWED BY: DANNY HILLSTOCK	REVISED: OCTOBER, 2019	CITY ENGINEER: DANNY HILLSTOCK LIC. NO. 75947 DATE 11-5-19	B-4-3
CITY OF HOLLISTER ENGINEERING DEPARTMENT			SHEET 3 OF 3



GATE VALVE SIZE	ANCHOR BLOCK DIMENSIONS A (FT)	B (FT)
6	18"	14"
8	18"	16"
10	24"	18"
12	24"	20"



PLAN VIEW

NOTES:

1. ALL GATE VALVES SHALL BE NON RISING STEM (NRS) DOUBLE O-RING SEAL. VALVES SHALL BE PER AWWA STANDARD EQUAL SIZED TO LINE PIPING. VALVES SHALL BE EPOXY COATED RESILIENT WEDGE GATE VALVES COMPLYING WITH AWWA C-509 SPECIFICATIONS. NO LEFT HANDED VALVES ALLOWED IN THE CITY.
2. CONCRETE COLLAR AND THRUST BLOCK SHALL BE CLASS 520-C-2500 PCC.
3. VALVE BOX SHALL BE CHRISTY G5 BOX WITH G5C TRAFFIC LID.
4. VALVE BOX RISER SHALL BE 6"Ø PVC SLEEVE.
5. ALL VALVES, FITTINGS AND ANCHOR BARS SHALL BE WRAPPED WITH 10 MIL. THICK POLYETHYLENE SHEET.
6. FOURTEEN (14") AND LARGER VALVES SHALL BE BUTTERFLY VALVE MANUFACTURED PER AWWA STANDARDS.

TITLE:
WATER VALVE

DRAWN BY: STAFF	SCALE: NONE	APPROVED:	STANDARD PLAN
REVIEWED BY: DANNY HILLSTOCK	REVISED: OCTOBER, 2019	CITY ENGINEER: DANNY HILLSTOCK LIC. NO. 75947 DATE 11-5-19	B-2
CITY OF HOLLISTER ENGINEERING DEPARTMENT			SHEET 1 OF 1

In accordance with section 6735 (a) of the Professional Engineer's Act these plans are

PRELIMINARY

and therefore do not bear the signature and seal of a registered civil engineer.

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HIPPO HARVEST
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2370 SHORE ROAD
HOLLISTER, CA 95023
REF. PLAN CHECK # XXXXX

FOR REFERENCE ONLY

NAME:	TJ KELLEY
LICENSE NUMBER:	CIVIL - 84966
SIGNATURE DATE:	N/A

ISSUE DATE:	June 2025
PROJ #:	24025
TIME STAMP:	6/27/2025 2:55 PM
FILE:	K:\Projects 2024\2025 - Hippo Harvest\bal24025 Hippo Harvest - IMP Phase 1 DS.1 Water Main Details.dwg

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SHEET TITLE :

WATER MAIN DETAILS

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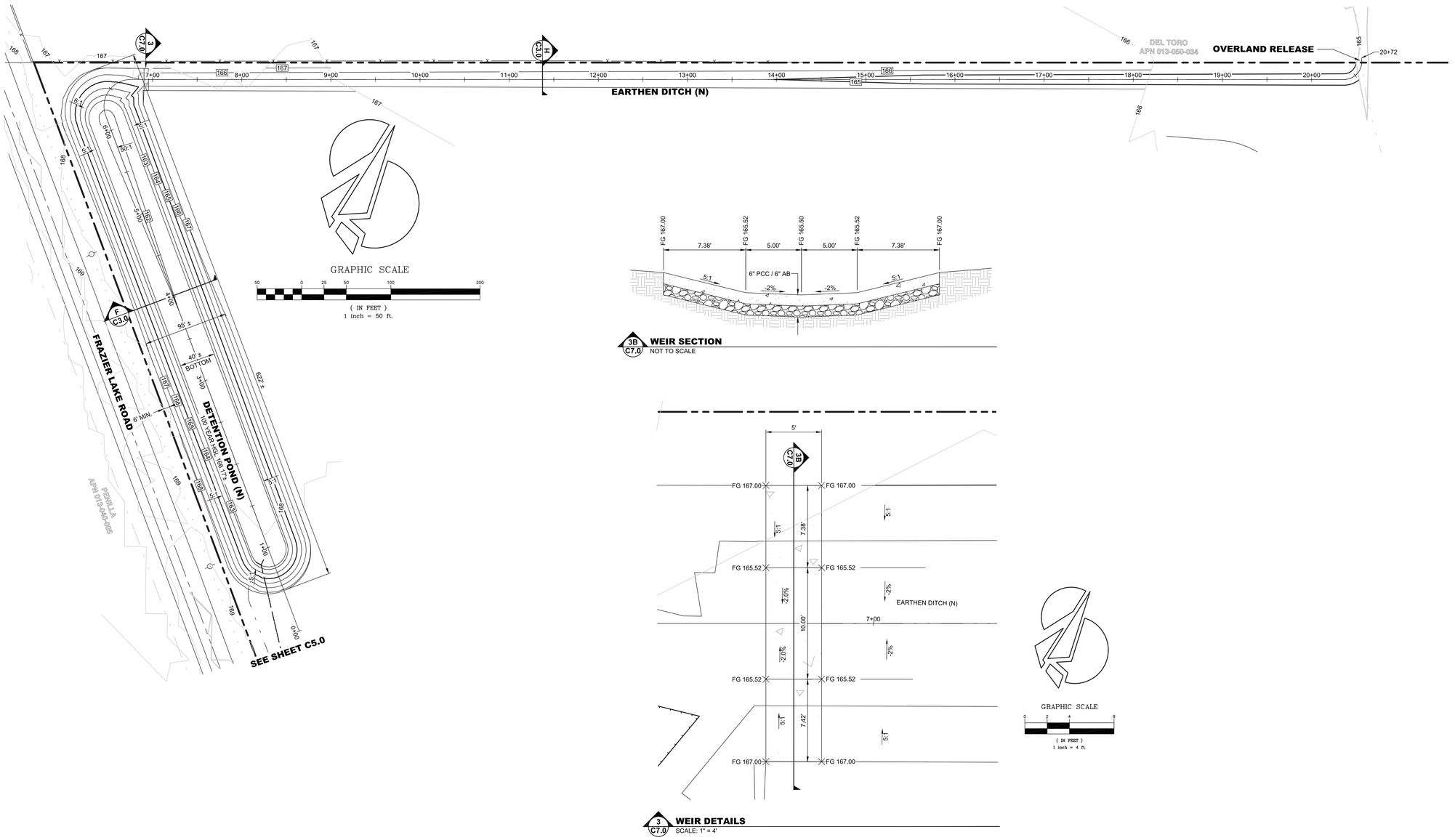
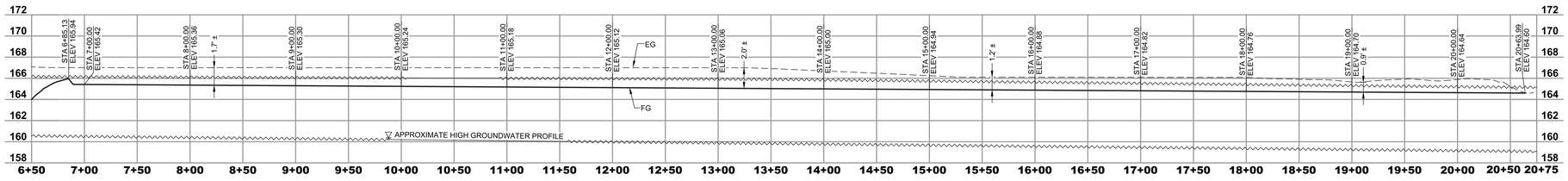
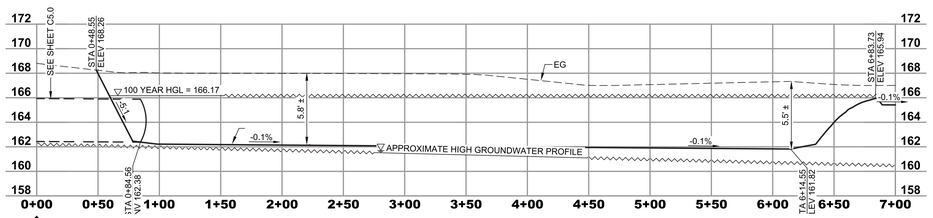


3B C7.0 **WEIR SECTION**
NOT TO SCALE

3 C7.0 **WEIR DETAILS**
SCALE: 1" = 4'



2 C7.0 **OUTLET DRAINAGE CHANNEL PROFILE**
SCALE: H: 1" = 50' V: 1" = 5' (10x)



1 C7.0 **DETENTION POND PROFILE**
SCALE: H: 1" = 50' V: 1" = 5' (10x)

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DETENTION POND DETAILS

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BID SET #1 - ADDENDUM 2

EROSION CONTROL LEGEND

FIBER ROLLS
INSTALL FIBER ROLLS AT THE DOWNSLOPE LIMIT OF ANY DISTRUBED AREA TO PREVENT SEDIMENT FROM EXITING THE SITE. TO REMAIN IN PLACE UNTIL VEGETATION IS ESTABLISHED. SEE THIS SHEET FOR DETAIL AND NOTES.

TYPE 2 STORM DRAIN INLET PROTECTION
INSTALL TYPE 2 STORM DRAIN INLET PROTECTION PER SE-10 AT ALL EXISTING STORM DRAIN INLETS RECEIVING SURFACE RUNOFF FROM THE PROJECT SITE. TO REMAIN IN PLACE UNTIL VEGETATION IS ESTABLISHED. SEE SHEET C8.1 FOR NOTES AND DETAILS.

ALTERNATIVES:
INSTALL NYLOPLAST DRAIN BASIN PROTECTION PER OPTION 1 OR OPTION 2 DETAILS ON SHEET C8.1 FOR COMPATIBLE NYLOPLAST DRAIN BASIN PRODUCTS.

TYPE 3 STORM DRAIN INLET PROTECTION
INSTALL TYPE 3 STORM DRAIN INLET PROTECTION PER SE-10 ON SHEET C8.1 AT ALL EXISTING STORM DRAIN INLETS RECIEVING SURFACE RUNOFF FROM THE PROJECT SITE. TO REMAIN IN PLACE UNTIL VEGETATION IS ESTABLISHED.

ALTERNATIVES:
INSTALL NYLOPLAST DRAIN BASIN PROTECTION PER OPTION 1 OR OPTION 2 DETAILS ON SHEET C8.1 FOR COMPATIBLE NYLOPLAST DRAIN BASIN PRODUCTS.

REVEGETATION
REVEGETATE ANY DISTURBED AREAS THAT ARE NOT PAVEMENT OR AGGREGATE BASE

FLOW ARROW

EROSION CONTROL

1. EROSION CONTROL MUST BE ADDRESSED BY PRESERVING VEGETATION WHERE FEASIBLE, LIMITING DISTURBANCE, AND STABILIZING AND REVEGETATING DISTURBED AREAS AS SOON AS POSSIBLE AFTER GRADING OR CONSTRUCTION.
2. AT A MINIMUM, THE DISCHARGER/OPERATOR MUST IMPLEMENT AN EFFECTIVE COMBINATION OF SEDIMENT AND EROSION CONTROL ON ALL DISTURBED AREAS DURING THE RAINY SEASON. THESE DISTURBED AREAS INCLUDE ROUGH GRADED ROADWAYS, SLOPES, AND BUILDING PADS.
3. THE DISCHARGER SHALL CONSIDER MEASURES SUCH AS: COVERING WITH MULCH, TEMPORARY SEEDING, SOIL STABILIZERS, BINDERS, BLANKETS, TEMPORARY VEGETATION, PERMANENT SEEDING, AND A VARIETY OF OTHER MEASURES.
4. **WIND EROSION CONTROL SHALL CONSIST OF APPLYING WATER OR OTHER DUST PALLIATIVES TO PREVENT OR ALLEVIATE DUST NUISANCE AND REVEGETATION, AS DESCRIBED BY THE REVEGETATION NOTE SHOWN ON THIS SHEET.**

STOCK PILE STABILIZATION:

STOCK PILES SHALL BE STABILIZED TO PREVENT EROSION AND TO PROVIDE SEDIMENT CONTROL BY ONE OR MORE OF FOLLOWING METHODS :
HYRAULIC MULCH (EC-30), HYDROSEEDING (EC-4), SOIL BINDERS (EC-5), PAM (EC-13) OR PLASTIC SHEETING AS SPECIFIED IN THE CASQA HANDBOOK, THE STOCK PILES SHALL BE STABILIZED TO THE SATISFACTION OF THE CITY ENGINEER.

REVEGETATION

All disturbed areas are to be re-seeded according to the revegetation plan.

REVEGETATION PLAN-
The work shall consist of hydro-seeding erosion control material consisting of a mixture of stabilizing emulsion, fiber, seed, commercial fertilizer, and water to embankment slopes and excavation slopes including obliterated roadway areas. Seed shall consist of the following:

Botanical Name (common name)	Percentage (minimum) Purity	Percentage (minimum) Germination	Pounds per acre
Vulpia mguros (Zorro annual fescue)	80	90	10
Bromus rubens (Pancho red broma)	95	85	10
Eriogonum fasciculatum (Duro Calif Buckwheat)	90	85	10

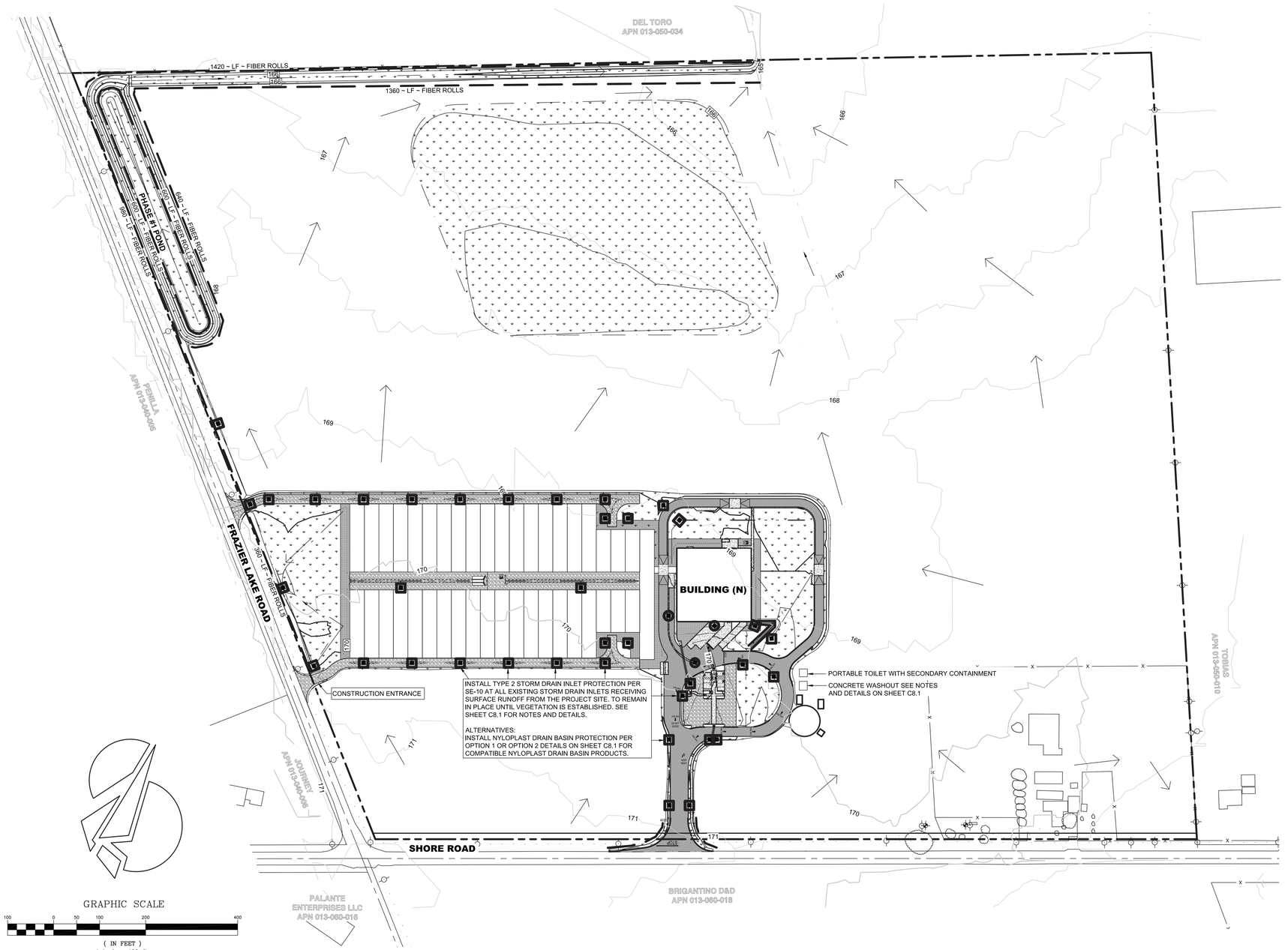
Seed shall be mixed on the project site in the presence of the engineer.
Seed shall be applied at the rate of 30 pounds per acre (slope measurement) and fertilizer shall be applied at the rate of 300 pounds per acre (slope measurement).
If hydro-seeding equipment is used to apply seed, the mixture shall be applied within 60 minutes after the seed has been added the mixture.

BMP NOTES

1. THE CONTRACTOR SHALL COMPLY WITH ALL SAN BENITO COUNTY STANDARDS, AND THE CALIFORNIA STORMWATER QUALITY ASSOCIATION (CASQA) HANDBOOK FOR CONSTRUCTION'S STORMWATER BEST MANAGEMENT PRACTICES (BMP) STANDARDS. THE BMP'S CONTAINED WITHIN THE CASQA STANDARDS ARE MINIMUM REQUIREMENTS. THE CONTRACTOR SHALL COMPLY WITH ALL BMP'S AS DIRECTED BY SAN BENITO COUNTY, INCLUDING BUT NOT LIMITED TO BMP'S FOR SEDIMENT CONTROL, TRACKING CONTROL, WASTE MANAGEMENT AND MATERIALS POLLUTION CONTROL, NON-STORMWATER MANAGEMENT CONTROL, AND EROSION CONTROL. EXAMPLES OF BMP'S THAT ARE REQUIRED INCLUDE BUT ARE NOT LIMITED TO:
   SE-7 STREET SWEEPING AND VACUUMING
   WM-5 SOLID WASTE MANAGEMENT
   WM-8 CONCRETE WASTE MANAGEMENT
   WM-9 SANITARY/SEPTIC WASTE MANAGEMENT
2. PORTABLE SANITARY FACILITIES SHALL HAVE SECONDARY CONTAINMENT, AND BE LOCATED ON RELATIVELY LEVEL GROUND AWAY FROM TRAFFIC AREAS AND STORM DRAIN INLETS.
3. THE CONTRACTOR SHALL NOTIFY SAN BENITO COUNTY 48 HOURS IN ADVANCE OF THE START OF CONSTRUCTION TO REQUEST INSPECTION OF STORMWATER BMP'S. ALL STORMWATER BMP'S SHALL BE IN PLACE PRIOR TO THE START OF CONSTRUCTION, AND MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT.
4. THE INTERIM BMP PLAN IS CONSIDERED A "LIVING DOCUMENT" WHICH MAY BE SUBJECT TO CHANGE FROM TIME TO TIME IN ORDER TO FACILITATE CONSTRUCTION. ALL REQUESTED CHANGES MUST BE APPROVED BY THE SAN BENITO COUNTY PRIOR TO INSTALLATION.
5. THE CONTRACTOR SHALL INSPECT ALL STORMWATER BMP'S REGULARLY TO ASSURE THAT THEY ARE FUNCTIONING PROPERLY. IF A BMP FAILS, THE CONTRACTOR SHALL MAKE REPAIRS IMMEDIATELY AND CLEAN ALL PORTIONS OF STORM DRAIN SYSTEMS THAT MAY HAVE BEEN CONTAMINATED BY THE FAILURE OF THE BMP TO THE SATISFACTION OF SAN BENITO COUNTY.

WIND EROSION CONTROL NOTE:

WIND EROSION CONTROL SHALL CONSIST OF APPLYING WATER OR OTHER DUST PALLIATIVES TO PREVENT OR ALLEVIATE DUST NUISANCE PER SECTION 3.3 OF THE CALIFORNIA STORMWATER QUALITY ASSOCIATION STORMWATER BEST MANAGEMENT PRACTICE CONSTRUCTION HANDBOOK .



GRAPHIC SCALE
100 0 50 100 200 400
(IN FEET)
1 inch = 100 ft.

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SHEET TITLE :
EROSION CONTROL PLAN

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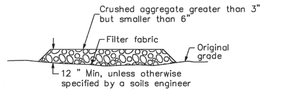
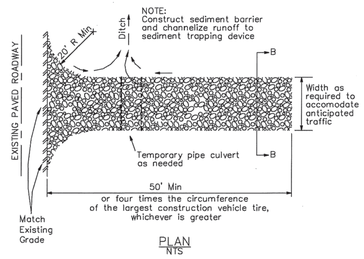
BID SET #1 - ADDENDUM 2

Stabilized Construction Entrance/Exit TC-1



SECTION B–B
NTS

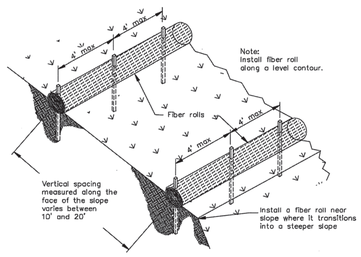


PLAN
NTS

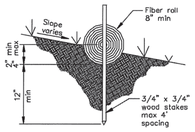
STABILIZED CONSTRUCTION ENTRANCE/EXIT NOTES

1. CONSTRUCT ON LEVEL GROUND WHERE POSSIBLE.
2. SELECT 3 TO 6 IN. DIAMETER STONES.
3. USE MINIMUM DEPTH OF STONES OF 12 IN. OR AS RECOMMENDED BY SOILS ENGINEER.
4. LIMIT THE POINTS OF ENTRANCE/EXIT TO THE CONSTRUCTION SITE.
5. LIMIT SPEED OF VEHICLES TO CONTROL DUST.
6. PROPERLY GRADE EACH CONSTRUCTION ENTRANCE/EXIT TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.
7. ROUTE RUNOFF FROM STABILIZED ENTRANCES/EXITS THROUGH A SEDIMENT TRAPPING DEVICE BEFORE DISCHARGE.
8. DESIGN STABILIZED ENTRANCE/EXIT TO SUPPORT HEAVIEST VEHICLES AND EQUIPMENT THAT WILL USE IT.
9. SELECT CONSTRUCTION ACCESS STABILIZATION (AGGREGATE, ASPHALTIC CONCRETE, CONCRETE) BASED ON LONGEVITY, REQUIRED PERFORMANCE, AND SITE CONDITIONS. DO NOT USE ASPHALT CONCRETE (AC) GRINDINGS FOR STABILIZED CONSTRUCTION ACCESS/ROADWAY.
10. IF AGGREGATE IS SELECTED, PLACE CRUSHED AGGREGATE OVER GEOTEXTILE FABRIC TO AT LEAST 12 IN. DEPTH. OR PLACE AGGREGATE TO A DEPTH RECOMMENDED BY A GEOTECHNICAL ENGINEER. A CRUSHED AGGREGATE GREATER THAN 3 IN. BUT SMALLER THAN 6 IN. SHOULD BE USED.
11. DESIGNATE COMBINATION OR SINGLE PURPOSE ENTRANCES AND EXITS TO THE CONSTRUCTION SITE.
12. REQUIRE THAT ALL EMPLOYEES, SUBCONTRACTORS, AND SUPPLIERS UTILIZE THE STABILIZED CONSTRUCTION ACCESS.
13. IMPLEMENT SE-7, STREET SWEEPING AND VACUUMING, AS NEEDED.
14. ALL EXIT LOCATIONS INTENDED TO BE USED FOR MORE THAN A TWO-WEEK PERIOD SHOULD HAVE STABILIZED CONSTRUCTION ENTRANCE/EXIT BMPS.
15. INSPECT AND VERIFY THAT ACTIVITY–BASED BMPS ARE IN PLACE PRIOR TO THE COMMENCEMENT OF ASSOCIATED ACTIVITIES. WHILE ACTIVITIES ASSOCIATED WITH THE BMPS ARE UNDER WAY, INSPECT WEEKLY DURING THE RAINY SEASON AND OF TWO-WEEK INTERVALS IN THE NON-RAINY SEASON TO VERIFY CONTINUED BMP IMPLEMENTATION.
16. INSPECT LOCAL ROADS ADJACENT TO THE SITE DAILY. SWEEP OR VACUUM TO REMOVE VISIBLE ACCUMULATED SEDIMENT.
17. REMOVE AGGREGATE, SEPARATE AND DISPOSE OF SEDIMENT IF CONSTRUCTION ENTRANCE/EXIT IS CLOGGED WITH SEDIMENT.
18. KEEP ALL TEMPORARY ROADWAY DITCHES CLEAR.
19. CHECK FOR DAMAGE AND REPAIR AS NEEDED.
20. REPLACE GRAVEL MATERIAL WHEN SURFACE VOIDS ARE VISIBLE.
21. REMOVE ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS WITHIN 24 HOURS. REMOVE GRAVEL AND FILTER FABRIC AT COMPLETION OF CONSTRUCTION

SE-5 Fiber Rolls



TYPICAL FIBER ROLL INSTALLATION
N.T.S.

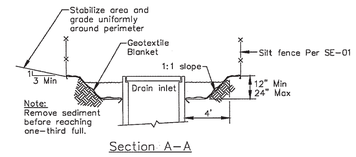


ENTRENCHMENT DETAIL
N.T.S.

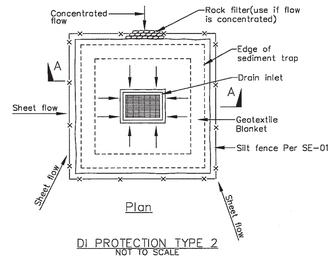
FIBER ROLLS NOTES

1. LOCATE FIBER ROLLS ON LEVEL CONTOURS AS FOLLOWS:
   4:1 SLOPES OR FLATTER - 20 FOOT MAXIMUM
   4:1 TO 2:1 - 15 FOOT MAXIMUM
   2:1 OR GREATER - 10 FOOT MAXIMUM
2. TURN THE ENDS OF THE FIBER ROLL UP SLOPE TO PREVENT RUNOFF FROM GOING AROUND THE ROLL.
3. STAKE FIBER ROLLS INTO A 2 INCH TO 4 INCH DEEP TRENCH WITH A WIDTH EQUAL TO THE DIAMETER OF THE FIBER ROLL.
4. DRIVE STAKES AT THE END OF EACH FIBER ROLL AND SPACED 4 FEET MAXIMUM ON CENTER.
5. USE WOOD STAKES WITH A NOMINAL CLASSIFICATION OF 0.75 INCH BY 0.75 INCH AND A MINIMUM LENGTH OF 24 INCHES.
6. IF MORE THAN ONE FIBER ROLL IS PLACED IN A ROW, THE ROLLS SHOULD BE OVERLAPPED, NOT ABUTTED.
7. INSPECT BMPS PRIOR TO FORECAST RAIN, DAILY DURING EXTENDED RAIN EVENTS, AFTER RAIN EVENTS, WEEKLY DURING THE RAINY SEASON, AND AT TWO-WEEK INTERVALS DURING THE NON-RAINY SEASON.
8. REPAIR OR REPLACE SPLIT, TORN, UNRAVELING, OR SLUMPING FIBER ROLLS.
9. REMOVE SEDIMENT ACCUMULATION WHEN IT REACHES 3 INCHES OF DEPTH. DISPOSE OF SEDIMENT PROPERLY.
10. REMOVE FIBER ROLLS WHEN UPSTREAM CONDITIONS ARE STABILIZED. REMOVE AND PROPERLY DISPOSE OF SEDIMENT ACCUMULATION. FILL AND COMPACT HOLES, TRENCHES, DEPRESSIONS, OR ANY OTHER GROUND DISTURBANCES TO BLEND WITH ADJACENT GROUND.

Storm Drain Inlet Protection SE-10



Section A–A

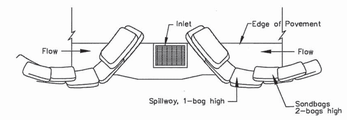


Plan

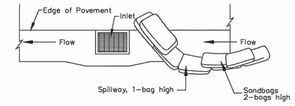
DI PROTECTION TYPE 2
NOT TO SCALE

Notes
1. For use in cleared and grubbed and in graded areas.
2. Shape basin so that longest inflow area faces longest length of trap.
3. For concentrated flows, shape basin in 2:1 ratio with length oriented towards direction of flow.

SE-10 Storm Drain Inlet Protection



TYPICAL PROTECTION FOR INLET ON SUMP



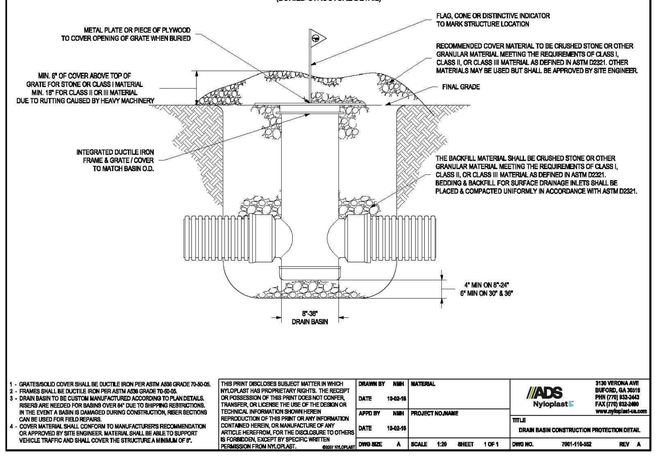
TYPICAL PROTECTION FOR INLET ON GRADE

NOTES:
1. Intended for short–term use.
2. Use to inhibit non–storm water flow.
3. Allow for proper maintenance and cleanup.
4. Bags must be removed after adjacent operation is completed
5. Not applicable in areas with high silts and clays without filter fabric.

DI PROTECTION TYPE 3
NOT TO SCALE

NYLOPLAST DRAIN BASIN CONSTRUCTION PROTECTION DETAIL - OPTION 1

(BURIED STRUCTURE DETAIL)



1 - GRATE/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-45-05.
2 - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-45-05.
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. IN THE EVENT A BASIN IS DAMAGED DURING CONSTRUCTION, RISER SECTIONS CAN BE USED FOR FIELD REPAIRS.
4 - COVER MATERIALS SHALL CONFORM TO MANUFACTURERS RECOMMENDATION OR APPROVED BY SITE ENGINEER. MATERIAL SHALL BE ABLE TO SUPPORT VEHICLE TRAFFIC AND SHALL COVER THE STRUCTURE A MINIMUM OF 9".

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DRAWN BY	NMH	MATERIAL	
DATE	10-02-15		
APP'D BY	NMH	PROJECT NO./NAME	
DATE	10-02-15		
DWG SIZE	A	SCALE 1:20	SHEET 1 OF 1

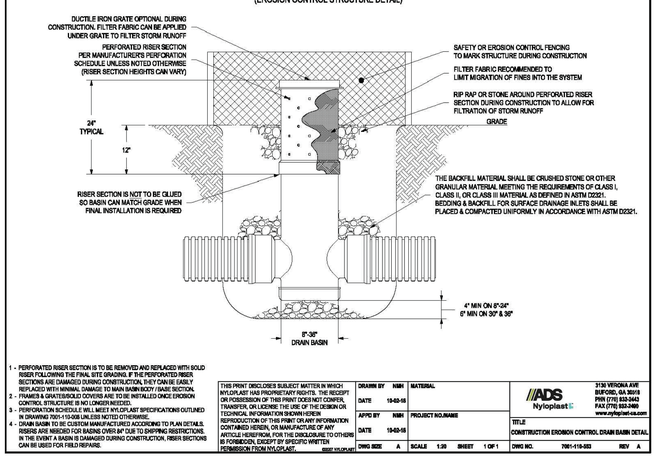
ADS Nyloplast — 3126 VERONA AVE BUFORD, GA 30518 PHN (770) 933-3443 FAX (770) 932-3469 www.nyloplast-us.com

TITLE: DRAIN BASIN CONSTRUCTION PROTECTION DETAIL

DWG NO. 7001-410-502 REV A

NYLOPLAST DRAIN BASIN CONSTRUCTION PROTECTION DETAIL - OPTION 2

(EROSION CONTROL STRUCTURE DETAIL)



1 - PERFORATED RISER SECTION IS TO BE REMOVED AND REPLACED WITH SOLID RISER FOLLOWING THE FINAL SITE GRADING IF THE PERFORATED RISER SECTIONS ARE DAMAGED DURING CONSTRUCTION, THEY CAN BE EASILY REPLACED WITH MINIMAL DAMAGE TO MAIN BASIN BODY / BASE SECTION.
2 - FRAMES & GRATES/SOLID COVERS ARE TO BE INSTALLED ONCE EROSION CONTROL STRUCTURE IS NO LONGER NEEDED.
3 - PERFORATION SCHEDULE WILL MEET NYLOPLAST SPECIFICATIONS OUTLINED IN DRAWING 7001-110-006 UNLESS NOTED OTHERWISE.
4 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. IN THE EVENT A BASIN IS DAMAGED DURING CONSTRUCTION, RISER SECTIONS CAN BE USED FOR FIELD REPAIRS.

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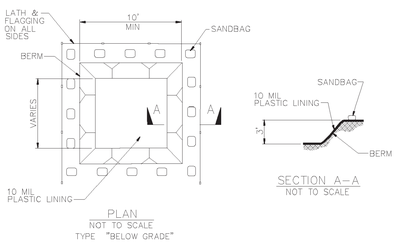
DRAWN BY	NMH	MATERIAL	
DATE	10-02-15		
APP'D BY	NMH	PROJECT NO./NAME	
DATE	10-02-15		
DWG SIZE	A	SCALE 1:20	SHEET 1 OF 1

ADS Nyloplast — 3126 VERONA AVE BUFORD, GA 30518 PHN (770) 933-3443 FAX (770) 932-3469 www.nyloplast-us.com

TITLE: CONSTRUCTION EROSION CONTROL DRAIN BASIN DETAIL

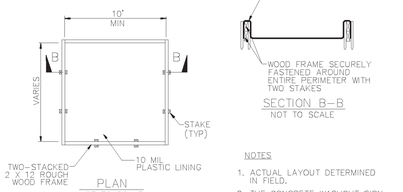
DWG NO. 7001-410-503 REV A

WM-8 Concrete Waste Management



PLAN
NOT TO SCALE
TYPE "BELOW GRADE"

SECTION A–A
NOT TO SCALE

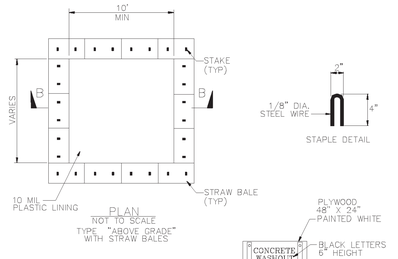


PLAN
NOT TO SCALE
TYPE "ABOVE GRADE"

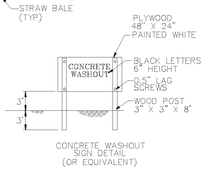
SECTION B–B
NOT TO SCALE

NOTES
1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT. OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

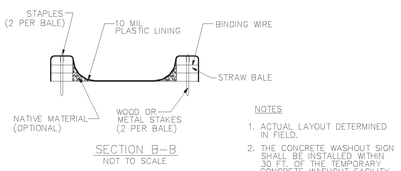
Concrete Waste Management WM-8



PLAN
NOT TO SCALE
TYPE "ABOVE GRADE" WITH STRAW BALES



CONCRETE WASHOUT SIGN DETAIL (OR EQUIVALENT)



SECTION B–B
NOT TO SCALE

NOTES
1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT. OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

Material Delivery and Storage WM-1

- If drums must be kept uncovered, store them at a slight angle to reduce ponding of rainwater on the lids to reduce corrosion. Domed plastic covers are inexpensive and snap to the top of drums, preventing water from collecting.
- Chemicals should be kept in their original labeled containers.
- Employees and subcontractors should be trained on the proper material delivery and storage practices.
- Employees trained in emergency spill cleanup procedures must be present when dangerous materials or liquid chemicals are unloaded.
- If significant residual materials remain on the ground after construction is complete, properly remove materials and any contaminated soil. See WM-7, Contaminated Soil Management. If the area is to be paved, pave as soon as materials are removed to stabilize the soil.

Material Storage Areas and Practices

- Liquids, petroleum products, and substances listed in 40 CFR Parts 110, 117, or 302 should be stored in approved containers and drums and should not be overfilled. Containers and drums should be placed in temporary containment facilities for storage.
- A temporary containment facility should provide for a spill containment volume able to contain precipitation from a 25 year storm event, plus the greater of 10% of the aggregate volume of all containers or 100% of the capacity of the largest container within its boundary, whichever is greater.
- A temporary containment facility should be impervious to the materials stored therein for a minimum contact time of 72 hours.
- A temporary containment facility should be maintained free of accumulated rainwater and spills. In the event of spills or leaks, accumulated rainwater and spills should be collected and placed into drums. These liquids should be handled as a hazardous waste unless testing determines them to be non-hazardous. All collected liquids or non-hazardous liquids should be sent to an approved disposal site.
- Sufficient separation should be provided between stored containers to allow for spill cleanup and emergency response access.
- Incompatible materials, such as chlorine and ammonia, should not be stored in the same temporary containment facility.
- Throughout the rainy season, each temporary containment facility should be covered during non-working days, prior to, and during rain events.
- Materials should be stored in their original containers and the original product labels should be maintained in place in a legible condition. Damaged or otherwise illegible labels should be replaced immediately.

WM-1 Material Delivery and Storage

- Bagged and boxed materials should be stored on pallets and should not be allowed to accumulate on the ground. To provide protection from wind and rain throughout the rainy season, bagged and boxed materials should be covered during non-working days and prior to and during rain events.
- Stockpiles should be protected in accordance with WM-3, Stockpile Management.
- Materials should be stored indoors within existing structures or sheds when available.
- Proper storage instructions should be posted at all times in an open and conspicuous location.
- An ample supply of appropriate spill clean up material should be kept near storage areas.
- Also see WM-6, Hazardous Waste Management, for storing of hazardous materials.

Material Delivery Practices

- Keep an accurate, up-to-date inventory of material delivered and stored onsite.
- Arrange for employees trained in emergency spill cleanup procedures to be present when dangerous materials or liquid chemicals are unloaded.

Spill Cleanup

- Contain and clean up any spill immediately.
- Properly remove and dispose of any hazardous materials or contaminated soil if significant residual materials remain on the ground after construction is complete. See WM-7, Contaminated Soil Management.
- See WM-4, Spill Prevention and Control, for spills of chemicals and/or hazardous materials.

Cost

- The largest cost of implementation may be in the construction of a materials storage area that is covered and provides secondary containment.

Inspection and Maintenance

- Inspect and verify that activity–based BMPs are in place prior to the commencement of associated activities. While activities associated with the BMP are under way, inspect weekly during the rainy season and of two-week intervals in the non-rainy season to verify continued BMP implementation.
- Keep an ample supply of spill cleanup materials near the storage area.
- Keep storage areas clean, well organized, and equipped with ample cleanup supplies as appropriate for the materials being stored.
- Repair or replace perimeter controls, containment structures, covers, and liners as needed to maintain proper function.

WM-1 Material Delivery and Storage

- Hazardous chemicals such as acids, lime, glues, adhesives, paints, solvents, and curing compounds
- Concrete compounds
- Other materials that may be detrimental if released to the environment

Limitations

- Space limitation may preclude indoor storage.
- Storage sheds often must meet building and fire code requirements.

Implementation

The following steps should be taken to minimize risk:

- Temporary storage area should be located away from vehicular traffic.
- Material Safety Data Sheets (MSDS) should be supplied for all materials stored.
- Construction site areas should be designated for material delivery and storage.
- Material delivery and storage areas should be located near the construction entrances, away from waterways, if possible.
  - Avoid transport near drainage paths or waterways.
  - Surround with earth berms. See EC-9, Earth Dikes and Drainage Swales.
  - Place in an area which will be paved.
- Storage of reactive, ignitable, or flammable liquids must comply with the fire codes of your area. Contact the local Fire Marshal to review site materials, quantities, and proposed storage area to determine specific requirements. See the Flammable and Combustible Liquid Code, NFPA30.
- An up to date inventory of materials delivered and stored onsite should be kept.
- Hazardous materials storage onsite should be minimized.
- Hazardous materials should be handled as infrequently as possible.
- During the rainy season, consider storing materials in a covered area. Store materials in secondary containments such as earthen dike, horse trough, or even a children's wading pool for non-reactive materials such as detergents, oil, grease, and paints. Small amounts of material may be secondarily contained in "bus boy" trays or concrete mixing trays.
- Do not store chemicals, drums, or bagged materials directly on the ground. Place these items on a pallet and, when possible, in secondary containment.

In accordance with section 6735 (a) of the Professional Engineer's Act these plans are
PRELIMINARY
and therefore do not bear the signature and seal of a registered civil engineer.

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REF. PLAN CHECK # XXXXX

FOR REFERENCE ONLY

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LICENSE NUMBER: CIVIL - 84966
SIGNATURE DATE: N/A

ISSUE DATE: June 2025
PROJ #: 24025
TIME STAMP: 6/27/2025 3:04 PM
FILE: K:\Projects 2024\24025 - Hippo Harvest\bak\24025 Hippo Harvest - BMP Phase 1 CE.1 Erosion Control Details.dwg

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REVISIONS

#	DATE	ISSUE
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SHEET TITLE :
EROSION CONTROL DETAILS

IF THIS SHEET IS NOT 30"x42" IT IS A REDUCED PRINT
THIS SHEET IS INTENDED TO BE VIEWED IN COLOR

SHEET NO:
C8.1
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BID SET #1 - ADDENDUM 2

GENERAL NOTES:

1. THIS PROJECT INVOLVES RENOVATION OF AND/OR INTERFACING WITH EXISTING FACILITIES. ALL REPRESENTATIONS OF EXISTING CONDITIONS ARE BASED ON UNIVERSITY-FURNISHED AS-BUILT DRAWINGS AND/OR LIMITED FIELD VERIFICATION. PRIOR TO BEGINNING CONSTRUCTION OR ORDERING EQUIPMENT, CONTRACTOR SHALL VISIT THE SITE AND PERFORM FIELD INVESTIGATIONS TO DETERMINE ACTUAL EXISTING CONDITIONS INCLUDING LOCATIONS OF UTILITIES, EQUIPMENT, AND OBSTRUCTIONS.

2. THESE DOCUMENTS MAKE NO REPRESENTATION AS TO THE EXISTENCE OR LOCATION OF EXISTING HAZARDOUS MATERIALS (INCLUDING ASBESTOS CONTAINING MATERIALS) AT THE SITE. REMOVAL OR ABATEMENT OF HAZARDOUS MATERIALS IS NOT INCLUDED IN THE SCOPE OF THIS PROJECT. SHOULD CONTRACTOR DISCOVER SUSPECTED HAZARDOUS MATERIALS AT THE SITE HE SHALL IMMEDIATELY BRING IT TO THE ATTENTION OF THE UNIVERSITY AND THE ARCHITECT PRIOR TO STARTING OR CONTINUING WORK INVOLVING THOSE MATERIALS.

3. ALL WORK SHOWN IS NEW UNLESS OTHERWISE INDICATED AS EXISTING (E), RELOCATED (RL) OR FUTURE.

4. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES AND STANDARDS INCLUDING BUT NOT LIMITED TO 2022 CALIFORNIA MECHANICAL CODE (CMC), 2022 CALIFORNIA PLUMBING CODE (CPC), 2022 CALIFORNIA BUILDING CODE (CBC), 2022 CALIFORNIA FIRE CODE (CFC), 2022 CALIFORNIA ELECTRICAL CODE, 2022 CALIFORNIA ENERGY CODE (CAL. CFR TITLE 24, PART 6), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA),

5. SUBMITTALS: REFER TO SPECIFICATIONS FOR SUBMITTAL REQUIREMENTS.

6. ALL EQUIPMENT SHALL BE MOUNTED AND ATTACHED TO STRUCTURE SO THAT IT IS RESTRAINED IN THE CASE OF A SEISMIC EVENT IN ACCORDANCE WITH THE REQUIREMENTS OF 2022 CBC.

7. RECORD DRAWINGS: CONTRACTOR SHALL KEEP AN ACCURATE RECORD DURING CONSTRUCTION OF AS-BUILT CONDITIONS ON A SET OF CONTRACT DRAWINGS. RED LINE RECORD DRAWING MARK-UPS SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE WITHIN 30 DAYS OF COMPLETION OF THE PROJECT.

8. OPERATION & MAINTENANCE (O&M) MANUALS: AT COMPLETION OF PROJECT CONTRACTOR SHALL SUBMIT TO THE OWNER 4 COPIES OF O&M MANUALS WHICH SHALL INCLUDE:
   - MFGR'S. O&M INSTRUCTIONS FOR ALL EQUIPMENT
   - COPIES OF APPROVED SUBMITTAL DATA SHOWING EQUIPMENT SPECIFICATIONS, CAPACITIES, ETC.
   - 11x17 (FOLDED) COPIES OF ALL SHOP DRAWINGS
   - 11x17 (FOLDED) COPIES OF CONTRACT RECORD DRAWINGS

   ALL O&M MANUALS SHALL BE INDEXED & BOUND IN 3 RING BINDERS WITH CLEAR LABELING & TABBED DIVIDERS.

9. CEC 110.16 – ELECTRICAL EQUIPMENT, SUCH AS SWITCHBOARDS, SWITCHGEAR, PANELBOARDS, INDUSTRIAL CONTROL PANELS, METER SOCKET ENCLOSURES, AND MOTOR CONTROL CENTERS, THAT IS IN OTHER THAN DWELLING UNITS, AND IS LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE WHILE ENERGIZED, SHALL BE FIELD OR FACTORY MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS. THE MARKING SHALL MEET THE REQUIREMENTS IN 110.21(B) AND SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT.

MECHANICAL EQUIPMENT

⊖	VOLT	PHASE	HP	FLA	VA	EQUIP. FDR C.B.	EQUIP. DISC. SIZE	EQUIP. DISC. FUSE SIZE	REMARKS
HP-1.1	208	1	–	26.9	5595	40A-2P	30AF-2P	30A	GERMINATION ROOM 1
HP-1.2	208	1	–	26.9	5595	40A-2P	30AF-2P	30A	GERMINATION ROOM 1
HP-1.3	208	1	–	26.9	5595	40A-2P	30AF-2P	30A	GERMINATION ROOM 1
FC-1.1A	208	1	–	1.5	312	N/A	(2), (8)	N/A	FED FROM UNIT FC-1.1
FC-1.1B	208	1	–	1.5	312	N/A	(2), (8)	N/A	FED FROM UNIT FC-1.1
FC-1.2A	208	1	–	1.1	229	N/A	(2), (8)	N/A	FED FROM UNIT FC-1.2
FC-1.2B	208	1	–	1.1	229	N/A	(2), (8)	N/A	FED FROM UNIT FC-1.2
FC-1.3A	208	1	–	1.1	229	N/A	(2), (8)	N/A	FED FROM UNIT FC-1.3
FC-1.3B	208	1	–	1.1	229	N/A	(2), (8)	N/A	FED FROM UNIT FC-1.3
HD-1.1A	208	1	–	16.0	3328	20A-2P	NEMA L6-20	N/A	GERMINATION HUMIDIFIER
HD-1.1B	208	1	–	16.0	3328	20A-2P	NEMA L6-20	N/A	GERMINATION HUMIDIFIER
HD-1.2A	208	1	–	16.0	3328	20A-2P	NEMA L6-20	N/A	GERMINATION HUMIDIFIER
HD-1.2B	208	1	–	16.0	3328	20A-2P	NEMA L6-20	N/A	GERMINATION HUMIDIFIER
HD-1.3A	208	1	–	16.0	3328	20A-2P	NEMA L6-20	N/A	GERMINATION HUMIDIFIER
HD-1.3B	208	1	–	16.0	3328	20A-2P	NEMA L6-20	N/A	GERMINATION HUMIDIFIER
HP-7.1	208	1	–	26.9	5595	40A-2P	30AF-2P	30A	GERMINATION ROOM 2
HP-7.2	208	1	–	26.9	5595	40A-2P	30AF-2P	30A	GERMINATION ROOM 2
HP-7.3	208	1	–	26.9	5595	40A-2P	30AF-2P	30A	GERMINATION ROOM 2
FC-7.1A	208	1	–	1.5	312	N/A	(2), (8)	N/A	FED FROM UNIT FC-7.1
FC-7.1B	208	1	–	1.5	312	N/A	(2), (8)	N/A	FED FROM UNIT FC-7.1
FC-7.2A	208	1	–	1.1	229	N/A	(2), (8)	N/A	FED FROM UNIT FC-7.2
FC-7.2B	208	1	–	1.1	229	N/A	(2), (8)	N/A	FED FROM UNIT FC-7.2
FC-7.3A	208	1	–	1.1	229	N/A	(2), (8)	N/A	FED FROM UNIT FC-7.3
FC-7.3B	208	1	–	1.1	229	N/A	(2), (8)	N/A	FED FROM UNIT FC-7.3
HD-1.1A	208	1	–	16.0	3328	20A-2P	NEMA L6-20	N/A	GERMINATION HUMIDIFIER
HD-1.1B	208	1	–	16.0	3328	20A-2P	NEMA L6-20	N/A	GERMINATION HUMIDIFIER
HD-1.2A	208	1	–	16.0	3328	20A-2P	NEMA L6-20	N/A	GERMINATION HUMIDIFIER
HD-1.2B	208	1	–	16.0	3328	20A-2P	NEMA L6-20	N/A	GERMINATION HUMIDIFIER
HD-1.3A	208	1	–	16.0	3328	20A-2P	NEMA L6-20	N/A	GERMINATION HUMIDIFIER
HD-1.3B	208	1	–	16.0	3328	20A-2P	NEMA L6-20	N/A	GERMINATION HUMIDIFIER
HP-2	460	3	–	15.0	11951	30A-3P	30AF-3P	20A	OFFICE / WORKSHOP AREA
4W-2.1	208	1	–	0.58	121	15A-2P	(2), (8)	N/A	OFFICE / WORKSHOP AREA
4W-2.2	208	1	–	0.58	121	15A-2P	(2), (8)	N/A	OFFICE / WORKSHOP AREA
4W-2.3	208	1	–	0.58	121	15A-2P	(2), (8)	N/A	OFFICE / WORKSHOP AREA
HP-3	208	1	–	26.7	5554	40A-2P	30AF-2P	30A	OFFICE / WORKSHOP AREA
4W-3	208	1	–	1.0	208	N/A	(2), (8)	N/A	FED FROM UNIT HP-3 (ESTIMATED LOAD)
HP-4	460	3	–	29.0	23106	40A-3P	60A-3P	35A	OFFICE / WORKSHOP AREA
4W-4.1	208	1	–	1.39	289	15A-2P	(2), (8)	N/A	LOCKERS
4W-4.3	208	1	–	1.39	289	15A-2P	(2), (8)	N/A	OFFICE
4W-4.4	208	1	–	1.39	289	15A-2P	(2), (8)	N/A	OFFICE LOBBY
4W-4.2	208	1	–	1.45	302	15A-2P	(2), (8)	N/A	KITCHENETTE
4W-4.5	208	1	–	0.51	106	15A-2P	(2), (8)	N/A	CONFERENCE
HP-5	460	3	–	26.2	20875	40A-3P	60AF-3P	35A	NORTH BUILDING PRODUCTION WAREHOUSE
HP-6	460	3	–	26.2	20875	40A-3P	60AF-3P	35A	NORTH BUILDING PRODUCTION WAREHOUSE
FC-5.1	208	1	–	4.8	998	15A-2P	(2), (8)	N/A	NORTH BUILDING PRODUCTION WAREHOUSE
FC-5.2	208	1	–	4.8	998	15A-2P	(2), (8)	N/A	NORTH BUILDING PRODUCTION WAREHOUSE
FC-6.1	208	1	–	4.8	998	15A-2P	(2), (8)	N/A	NORTH BUILDING PRODUCTION WAREHOUSE
FC-6.2	208	1	–	4.8	998	15A-2P	(2), (8)	N/A	NORTH BUILDING PRODUCTION WAREHOUSE
VF-1	208	3	3	10.6	3819	20A-3P	30AF-3P	17.5A	
VEF-1	208	3	1	3.2	1153	15A-3P	30AF-3P	5A	
VF-2	208	3	0.75	3.5	1261	15A-2P	30AF-2P	7A	
VEF-2	208	3	1	3.2	1153	15A-3P	30AF-3P	5A	
LF-1A	115	1	0.05	2.0	230	20A-1P	(8)	N/A	LAB FUME HOOD EXHAUST FAN
LF-1B	115	1	0.05	2.0	230	20A-1P	(8)	N/A	LAB FUME HOOD EXHAUST FAN
CD-1.1	460	3	25	35.9	28603	70A-3P	60A-3P	50A	DIST. A – REFRIG
CD-1.2	460	3	25	35.9	28603	70A-3P	60A-3P	50A	DIST. A – REFRIG
CD-2.1	460	3	25	35.9	28603	70A-3P	60A-3P	50A	PACKHOUSE A
CD-2.2	460	3	25	35.9	28603	70A-3P	60A-3P	50A	PACKHOUSE A
CD-2.3	460	3	25	35.9	28603	70A-3P	60A-3P	50A	PACKHOUSE A
EC-1.1A	460	3	–	3.1	2470	15A-3P	30AF-3P	5A	DIST. A – REFRIG
EC-1.1B	460	3	–	3.1	2470		30AF-3P	5A	DIST. A – REFRIG
EC-1.2A	460	3	–	3.1	2470	15A-3P	30AF-3P	5A	DIST. A – REFRIG
EC-1.2B	460	3	–	3.1	2470		30AF-3P	5A	DIST. A – REFRIG
EC-2.1A	460	3	–	6.2	4940	20A-3P	30AF-3P	8A	PACKHOUSE A
EC-2.1B	460	3	–	6.2	4940		30AF-3P	8A	PACKHOUSE A
EC-2.2A	460	3	–	6.2	4940	20A-3P	30AF-3P	8A	PACKHOUSE A
EC-2.2B	460	3	–	6.2	4940		30AF-3P	8A	PACKHOUSE A
EC-2.3A	460	3	–	6.2	4940	20A-3P	30AF-3P	8A	PACKHOUSE A
EC-2.3B	460	3	–	6.2	4940		30AF-3P	8A	PACKHOUSE A
AC-1A	208	1	–	2.5	520		(8)	N/A	AIR CURTAIN
AC-1B	208	1	–	2.5	520		(8)	N/A	AIR CURTAIN
AC-1C	208	1	–	2.5	520		(8)	N/A	AIR CURTAIN
AC-2A	208	1	–	5.0	1040		(8)	N/A	AIR CURTAIN
AC-2B	208	1	–	5.0	1040		(8)	N/A	AIR CURTAIN
AC-2C	208	1	–	5.0	1040		(8)	N/A	AIR CURTAIN
AC-3A	208	1	–	5.0	1040		(8)	N/A	AIR CURTAIN
AC-3B	208	1	–	5.0	1040		(8)	N/A	AIR CURTAIN
AC-4	208	1	–	7.5	1560		(8)	N/A	AIR CURTAIN

(1) CONTRACTOR TO FIELD VERIFY ALL EQUIPMENT ELECTRICAL CHARACTERISTICS.
(2) TOGGLE TYPE MOTOR RATED DISCONNECT SWITCH, PROVIDED WITH EQUIPMENT OVERLOADS.
(3) COMBINE WITH LIGHTING CIRCUITS.
(4) PROVIDE EQUIP. SERVICE DISC. SWITCH IF UNIT DOES NOT HAVE INTEGRAL DISCONNECTING MEANS.
(5) PROVIDE RECEPTACLE TO MATCH UNIT CORD.
(6) PROVIDE MOTOR THERMAL OVERLOAD PROTECTION IF MOTOR DOES NOT HAVE MOTOR THERMAL OVERLOAD PROTECTION.
(7) SIZE PER EQUIPMENT FULL LOAD NAMEPLATE CURRENT.
(8) SEE ELECTRICAL PLAN.
N/A – NOT APPLICABLE.

LIGHTING FIXTURE SCHEDULE

FIX NO.	MANUFACTURER	CATALOG NO.	LAMP TYPE	LUMENS	COLOR TEMP	DIM	T24 WATTS	BRANCH CKT DESIGN WATTS	MOUNTING/ HEIGHT	REMARKS/ACCESSORIES
A1	C&M LIGHTING	UFO-150	LED	22500LU	5000K	0-10V	150	175	HIGHBAY	
B1	METALUX	24RLN-LD5-45-UNV-835-CD1-U	LED	4547LU	3500K	0-10V	34	40	TROFFER	
B2	METALUX	24RLN-LD5-55-UNV-835-CD1-U	LED	5554LU	3500K	0-10V	42.7	50	TROFFER	
C1H	METALUX	2AWWS-L3C3-UNV	LED	3140LU	3500K	0-10V	26.2	35	SURFACE WRAP	
C2H	METALUX	4AWS-L3C3-UNV	LED	5910LU	3500K	0-10V	48.8	60	SURFACE WRAP	
C2M	METALUX	4AWS-L3C3-UNV	LED	5070LU	3500K	0-10V	39.6	50	SURFACE WRAP	
D1	METALUX	8VT-LD5-12-DR100-UNV-L835-CD2-WL-SSL	LED	12000LU	3500K	0-10V	100	115	WPDR TIGHT SURFACE MNT	
E1	HALO	HC615D010 HM612835 61WDC	LED	1500LU	3500K	0-10V	14.9	20	RECESS CAN	
F1	METALUX	4AWS-L3C3-UNV	LED	5910LU	3500K	0-10V	39.1	45	SURFACE WRAP	

AFG – ABOVE FINISH GRADE/AFS – ABOVE FINISH SLAB/ASC – ABOVE SUSPENDED CEILING/AFF – ABOVE FINISH FLOOR/ARF – ABOVE RAISED FLOOR

USER EQUIPMENT

⊖	VOLT	PHASE	HP	FLA	VA	EQUIP. FDR C.B.	EQUIP. DISC. SIZE	EQUIP. DISC. FUSE SIZE	REMARKS
EQ-1	240	3	–	30.0	12471	40A-3P			TRUCK CHARGER
EQ-4	480	3		24.0	19953	30A-3P			FORK LIFT CHARGER
EQ-5	480	3		50.0	41569	60A-3P			TRAY WASHER
EQ-6	120	1		15.0	1800	20A-1P			AIR COMP
EQ-7									AIR COMP ????
EQ-8	120	1							WORK BENCH RECPTS
EQ-9	240	3		3	1247	20A-3P			WORKSHOP EQUIP
EQ-10	230	3		12.0	4781	20A-3P			GUTTER CLEANER
EQ-11	230	3		19.0	7569	30A-3P			GUTTER WASHER
EQ-12									
EQ-13									5
EQ-14									
EQ-15									
EQ-16									
EQ-17									
EQ-18	240	1		4.0	960	20A-2P			GOOGLE VIDEO CONF.
EQ-19	120	1		1.6	192	20A-1P			TV
EQ-20	120	1		8.0	960	20A-1P			GARBAGE DISP.
EQ-21	120	1		6.0	720	20A-1P			REFER
EQ-22	120	1		6.0	720	20A-1P			REFER
EQ-23	480	3		8.0	6651				DISHWASHER
EQ-24	120	1		10	1200				DECONTAMINATION MIXING CHAMBER
EQ-25	208	3		15.0	5404				WASHER
EQ-26	208	3		10	3602.7				DRYER
EQ-27	240	3		21.0	8730				SEEDER
EQ-28									
EQ-29	240	1		6.0	1440				DENESTER
EQ-30	480	3		16.0	13302				INDEX CONVEYER
EQ-31	208	1		6.0	1248				SCALES
EQ-32	208	1		16.0	3328				SALAD TAMP
EQ-33	480	3		16.0	13302				TRAY SEALER GT1E
EQ-34	230	1		6.0	1380				CHECK WEIGH
EQ-35	120	1		6.0	720				ROTARY TABLE
EQ-36	120	1		6.0	720				CASE ERECTOR
EQ-37	120	1		6.0	720				CASE CLOSER
EQ-38	480	3		16.0	13302				MIXING BELT
EQ-39	400	3		5.0	3464				HARVESTER
EQ-40	480	3		5.0	4157				SHAKER CONVEYER
EQ-41	230	3		10.0	3984				SOIL MIXER
EQ-42	230	3		10.0	3984				COIR BUSTER
EQ-43	240	3		20.0	8314				HARVEST BIN WASHER
EQ-44									
EQ-45									
EQ-46									
EQ-47	240	3		15.0	6235				IT SERVER
EQ-48									
EQ-49									
EQ-50A	120	1		15.0	1800				DOCKZILLA
EQ-50B	120	1		15.0	1800				DOCKZILLA
EQ-50C	120	1		15.0	1800				DOCKZILLA
EQ-51	480	3		16.0	13302				CONVEYER BELT
EQ-52	480	3		32.0	26604				VIBRATORY FEED/ ELEVATOR
EQ-53	208	1		6.0	1248				SALAD WEIGHER
EQ-54	480	3		32.0	26604				SALAD FILLER
EQ-55	480	3		16.0	13302				INSPECTION CONVEYER BELT
EQ-56	230	1		16.0	3680				LEAF TUCK
EQ-57	230	1		16.0	3680				PACK TURNER
EQ-58	208	1		6.0	1248				SCALES
EQ-59									
EQ-60	120	1		12.5	1500				LAB DISHWASHER
EQ-61	115	1		14.0	1610				LAB AUTOCLAVE (continious)
EQ-62	115	1		12.0	1380				GROW CHAMBER
EQ-63	120	1		10.0	1200				LAB REFERS
EQ-64	120	1		10.0	1200				LAB FREEZERS
EQ-65	208	1		1.4	291				LAB LAMINER FLOWHOOD
EQ-66	115	1		15.0	1725				LAB FUME HOOD
EQ-67	115	1		0.9	104				LAB INCUBATORS
EQ-68	115	1		10.0	1150				GARBAGE DISPOSAL
EQ-69A	115	1		7.0	805				KIT REFER
EQ-69B	115	1		7.0	805				KIT REFER
EQ-70	480	3		8.0	6651				DISHWASHER ?? EQ/23?
EQ-71A	120	1		10.0	1200				MICROWAVE
EQ-71B	120	1		10.0	1200				MICROWAVE
EQ-71C	120	1		10.0	1200				MICROWAVE
EQ-71D	120	1		10.0	1200				MICROWAVE
EQ-75	120	1		10.0	1200				PACK TABLE

(1) CONTRACTOR TO FIELD VERIFY ALL EQUIPMENT ELECTRICAL CHARACTERISTICS.
(2) TOGGLE TYPE MOTOR RATED DISCONNECT SWITCH, PROVIDED WITH EQUIPMENT OVERLOADS.
(3) COMBINE WITH LIGHTING CIRCUITS.
(4) PROVIDE EQUIP. SERVICE DISC. SWITCH IF UNIT DOES NOT HAVE INTEGRAL DISCONNECTING MEANS.
(5) PROVIDE RECEPTACLE TO MATCH UNIT CORD.
(6) PROVIDE MOTOR THERMAL OVERLOAD PROTECTION IF MOTOR DOES NOT HAVE MOTOR THERMAL OVERLOAD PROTECTION.
(7) SIZE PER EQUIPMENT FULL LOAD NAMEPLATE CURRENT.
(8) SEE ELECTRICAL PLAN.
N/A – NOT APPLICABLE.

ELECTRICAL SYMBOLS & ABBREVIATIONS

NO SCALE

PANELS

VOLTAGE AND PHASE AS NOTED PER DWGS.
120/240V, 1 PHASE PANEL
240/120V, 3 PHASE PANEL
120/208V, 1 PHASE PANEL
208/120V, 3 PHASE PANEL
480/277V, 3 PHASE PANEL
480V, 3 PHASE PANEL
SPECIAL VOLTAGE PANEL
EMERGENCY POWER PANEL

CONDUIT

- CONDUIT RUN CONCEALED IN OR UNDER SLAB OR BELOW GRADE
- CONDUIT RUN CONCEALED IN CEILING OR WALL, U.O.N.
- C — CONDUIT RUN CONCEALED IN OR UNDER SLAB OR BELOW GRADE FOR COMMUNICATION SYSTEM
- E — EMERGENCY SYSTEM CIRCUITING
- PA — CONDUIT RUN CONCEALED IN OR UNDER SLAB OR BELOW GRADE FOR PA SYSTEM
- P — P — PRIMARY
- S — S — CONDUIT RUN CONCEALED IN OR UNDER SLAB OR BELOW GRADE FOR SECURITY SYSTEM
- T — CONDUIT RUN CONCEALED IN OR UNDER SLAB OR BELOW GRADE FOR TELEPHONE SYSTEM
- HOME RUN TO POWER SOURCE
- CONDUIT TURN DOWN
- CONDUIT TURN UP
- GROUND CONDUCTOR, NEUTRAL CONDUCTOR, POWER CONDUCTORS, LOW VOLTAGE CONTROL CONDUCTORS
- 1/2" — CONDUIT SIZE

DEVICES

- SINGLE POLE SWITCH, +46" U.O.N. (o – CIRCUIT # & SWITCHING; 2 – DOUBLE POLE; 3 – 3 WAY; 4 – 4 WAY)
- DUPLEX RECPT, NEMA 5–20R, +18" U.O.N.
- FOUR–PLEX RECPT, NEMA 5–20R, +18" U.O.N.
- DUPLEX RECPT, W/GROUND FAULT INTERUPTER +44", U.O.N.
- ROOF/CEILING/RECEPT/DROP RECEPT
- ROOF/CEILING 4 PLEX/DROP RECEPT
- FLOOR RECEPTACLE
- (PP) POWER PACK
- 240V RECEPT
- 208V RECEPT
- 480V RECEPT
- T/C TIME CLOCK
- (J) JUNCTION BOX
- TELEPHONE OUTLET
- TELCO/DATA OUTLET
- DATA OUTLET
- CABLE TV OUTLET
- A.C. MOTOR GENERAL SYMBOL
- SAFETY SWITCH, SIZE AS NOTED
- MAGNETIC STARTER
- COMBINATION STARTER
- MANUAL STARTER
- P / S — DISTRIBUTION TRANSFORMER P – PRIMARY, S – SECONDARY
- NXX — BOX SIZE
- PULL BOX – POWER; TEL COMMUNICATION

LIGHTING DEVICES

- FLUORESCENT FIXTURE, RECESSED IN CEILING
- FLUORESCENT FIXTURE, SURFACE OR PENDANT MOUNTED
- FLUORESCENT FIXTURE, WALL MOUNTED
- FLUORESCENT STRIP, SURFACE, PENDANT, OR WALL MOUNTED AS NOTED.
- NL — NL= NIGHT LIGHT; EM= EMERGENCY LIGHT
- LIGHT FIXTURE
- EM — EMERGENCY BATTERY POWERED LIGHT
- EXIT SIGN, WITH DIRECTIONAL ARROWS AS SHOWN
- SINGLE POLE SWITCH, +46" U.O.N. (o – CIRCUIT # & SWITCHING; 2 – DOUBLE POLE; 3 – 3 WAY; 4 – 4 WAY)
- LIGHTING CONTROL STATION
- XX / CEILING / RCX / WALL — OS = OCCUPANCY SENSOR; DS = DAYLIGHT SENSOR; IR = INFRARED SENSOR
- SINGLE OR DUAL SWITCH OCCUPANCY SENSOR
- RCX — ROOM CONTROL X=CONTROL REFERENCE NUMBER

IDENTIFICATION LABELS

- (E) LIGHT FIXTURE TAG
- (AA) MECHANICAL EQUIPMENT TAG
- (A) COMPLY WITH LETTER OR NUMBER NOTE ON SHEET
- (A) SEE DETAIL 8, SHEET E4
- 1 COMPLY WITH LETTER OR NUMBER NOTE ON DETAIL
- (XXXY) FEEDER IDENTIFICATION TAG
  XXX=FEEDER; YY=
  P–PRIMARY POWER
  S–SECONDARY POWER
  E–ELECTRIC POWER
  EM–EMERGENCY POWER
  T–TELCO SERVICE
  TP–TELCO DATA
  CA–CABLE SERVICE

FIRE ALARM LEGEND

- – HORN
- – STROBE LIGHT
- – HORN/STROBE
- (S) – SMOKE DETECTOR
- – HEAT DETECTOR
- – MANUAL PULL STATION
- DSM – DUAL SYNC MODULE
- FACP – FIRE ALARM CONTROL PANEL
- ANN – ANNUNCIATOR
- FSD – FIRE SMOKE DAMPER
- EOL – END OF LINE RESISTOR

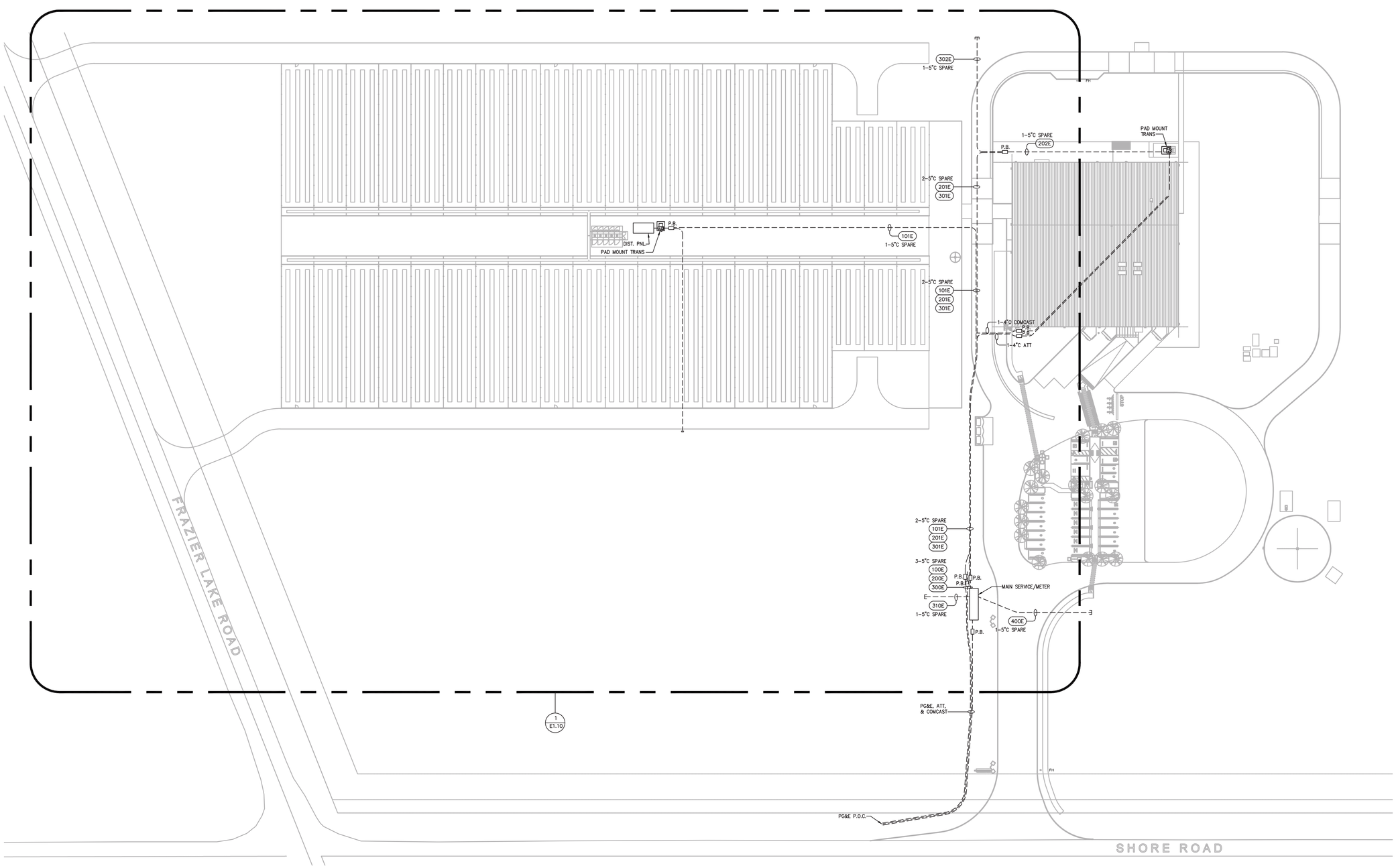
ABBREVIATIONS

A – AMP
ADMIN – ADMINISTRATION
AFF – ABOVE FINISHED FLOOR
AFG – ABOVE FINISHED GRADE
AFS – ABOVE FINISHED SLAB
AL – ALUMINUM
ARCH – ARCHITECT
ARF – ABOVE RAISED FLOOR
ASC – ABOVE SUSPENDED CEILING
BD – BOARD
BLDG – BUILDING
C – CONDUIT
CKT – CIRCUIT
CO – CONDUIT ONLY
CONC – CONCRETE
CONN – CONNECT
CU – COPPER
DISC – DISCONNECT
DWG – DRAWING
(E) – EXISTING
ELEC – ELECTRICAL
EM – EMERGENCY
EP – EXPLOSION PROOF
EQUIP – EQUIPMENT
ES – ENERGY SAVING
EXIST – EXISTING
FA – FIRE ALARM
FACP – FIRE ALARM CONTROL PANEL FAP – FIRE ALARM PANEL
FDR – FEEDER
GND – GROUND
GFI – GROUND FAULT INTERRUPTER
GFIP – GROUND FAULT INTERRUPTER PROTECTED
HP – HORSEPOWER
MAX – MAXIMUM
MECH – MECHANICAL
MFG – MANUFACTURER
MIN – MINIMUM
MSB – MAIN SWITCH BOARD
MTG – MOUNTING
(N) – NEW
NL – NIGHT LIGHT
(NL) – NEW LOCATION
NFDS – NON–FUSED DISC. SW.
OH – OVERHEAD
PB – PULL BOX
P.O.C – POINT OF CONNECTION
PG&E – PACIFIC GAS AND ELECTRIC
PNL – PANEL
QTY – QUANTITY
(R) – REMOVE
(RL) – RELOCATE
RGS – RIGID GALVANIZED STEEL
(RRE) – REMOVE AND REPLACE EXISTING
(RRN) – REMOVE AND REPLACE NEW
SCH – SCHEDULE
STRUCT – STRUCTURAL
SW – SWITCH
SWBD – SWITCHBOARD
SYM – SYMETRICAL
SYS – SYSTEM
TELE – TELEPHONE
TERM – TERMINAL
TRANS – TRANSFORMER
TYP – TYPICAL
UG – UNDERGROUND
UON – UNLESS OTHERWISE NOTED
VF – VERIFY IN FIELD
V – VOLTS
WP – WEATHERPROOF
WRGS – WRAPPED RIGID GALVANIZED STEEL
– PHASE

NOTE: DIMENSIONS TO CENTERLINE, UNLESS OTHERWISE NOTED.

ELECTRICAL DRAWING INDEX

PG	SHEET	TITLE
1	E0.00	ELECTRICAL INFORMATION SHEET
~~2~~	~~E0.10~~	~~TITLE 24 INTERIOR LIGHTING~~
~~3~~	~~E0.20~~	~~TITLE 24 BUILDING/SITE EXTERIOR LIGHTING~~
~~4~~	~~E0.30~~	~~TITLE 24 POWER DISTRIBUTION~~
5	E1.00	ELECTRICAL SITE POWER DISTRIBUTION PLAN
~~6~~	~~E1.01~~	~~ELECTRICAL SITE DETAILS~~
7	E1.10	ENLARGED ELECTRICAL SITE POWER DISTRIBUTION PLAN
8	E1.20	TYPICAL 31'–6" X 148' GREENHOUSE ELECTRICAL PLAN
9	E1.30	TYPICAL 31'–6" X 92' GREENHOUSE ELECTRICAL PLAN
~~10~~	~~E2.00~~	~~SITE LIGHTING PLAN~~
11	E2.10	BUILDING LIGHTING PLAN
12	E3.10	BUILDING/EQUIPMENT POWER PLAN
13	E4.10	BUILDING MECHANICAL/REFRIGERATION POWER PLAN
14	E4.20	BUILDING ROOF ELECTRICAL PLAN
15	E5.00	ELECTRICAL ONE–LINE DIAGRAM
16	E5.01	ELECTRICAL ONE–LINE DIAGRAM
17	E5.02	ELECTRICAL ONE–LINE DIAGRAM
~~19~~	~~E5.10~~	~~ELECTRICAL PANEL SCHEDULES~~
~~20~~	~~E6.10~~	~~BUILDING DATA/SECURITY ELECTRICAL PLAN~~
~~21~~	~~E7.00~~	~~ELECTRICAL SPECIFICATIONS~~
22	EL2.00	BUILDING PHOTOMETRICS PLAN – NORMAL
~~23~~	~~EL2.00E~~	~~BUILDING PHOTOMETRICS PL



1 ELECTRICAL SITE PLAN
SCALE: 1" = 40'-0"

40 0 40 80
SCALE: 1" = 40'-0"

N

SITE POWER DISTRIBUTION PLAN

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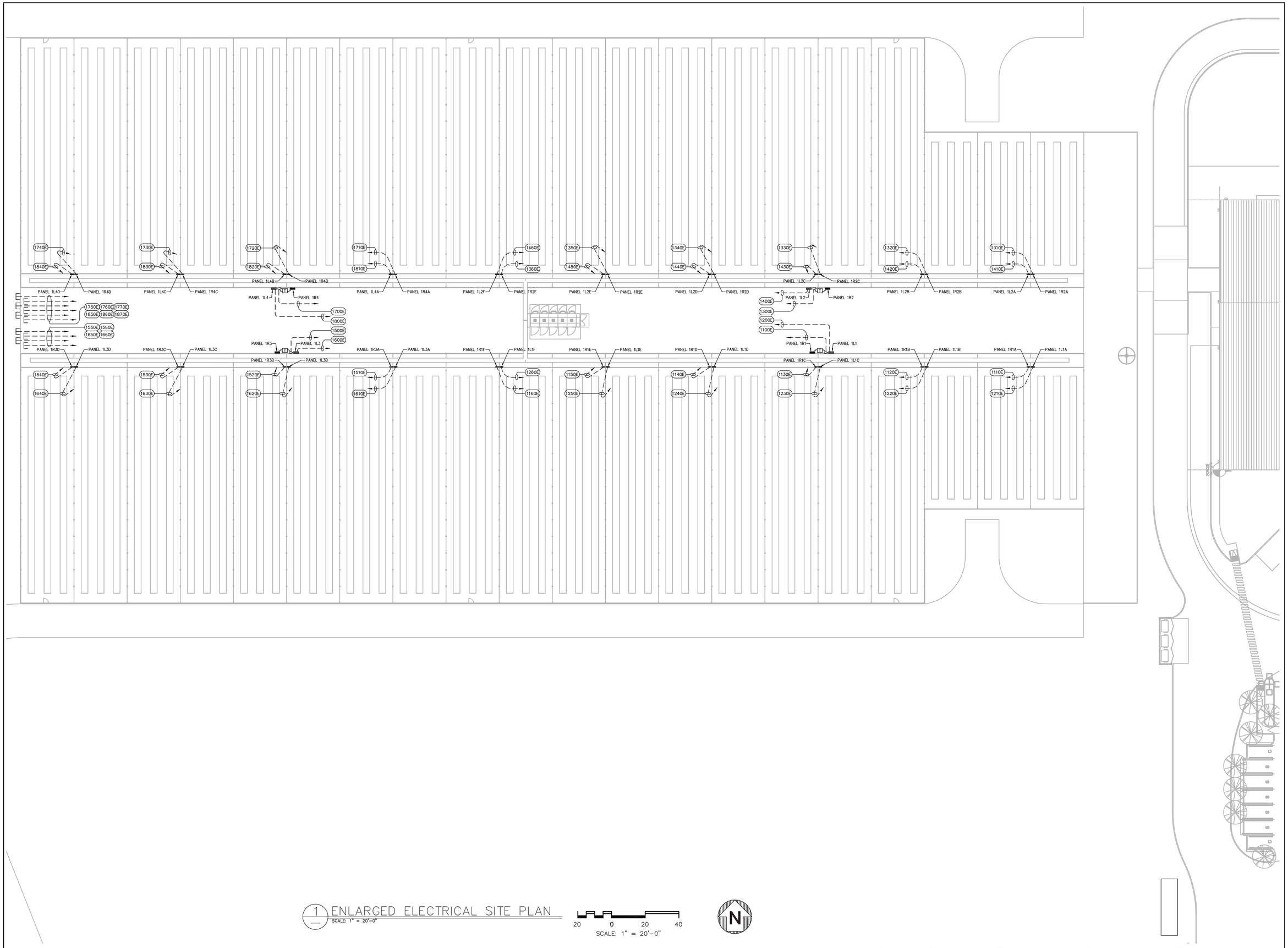
REV.	DESCRIPTION	DATE
1		

TITLE: HIPPO HARVEST
HOLLISTER, CA
LOCATION: 21370 SHORE ROAD
HOLLISTER, CA 95023
OWNER:

DR.	DATE	CHK.	APP'D.	SCALE
SK	05/19/25	DGS	DGS	AS NOTED

JOB NO. 25-008-0
DWG. NO. E1.00
SH 5 OF 23
REV. 0

BID SET #1 - ADDENDUM 2



1 ENLARGED ELECTRICAL SITE PLAN
SCALE: 1" = 20'-0"

20 0 20 40
SCALE: 1" = 20'-0"

N

ENLARGED SITE POWER DISTRIBUTION PLAN

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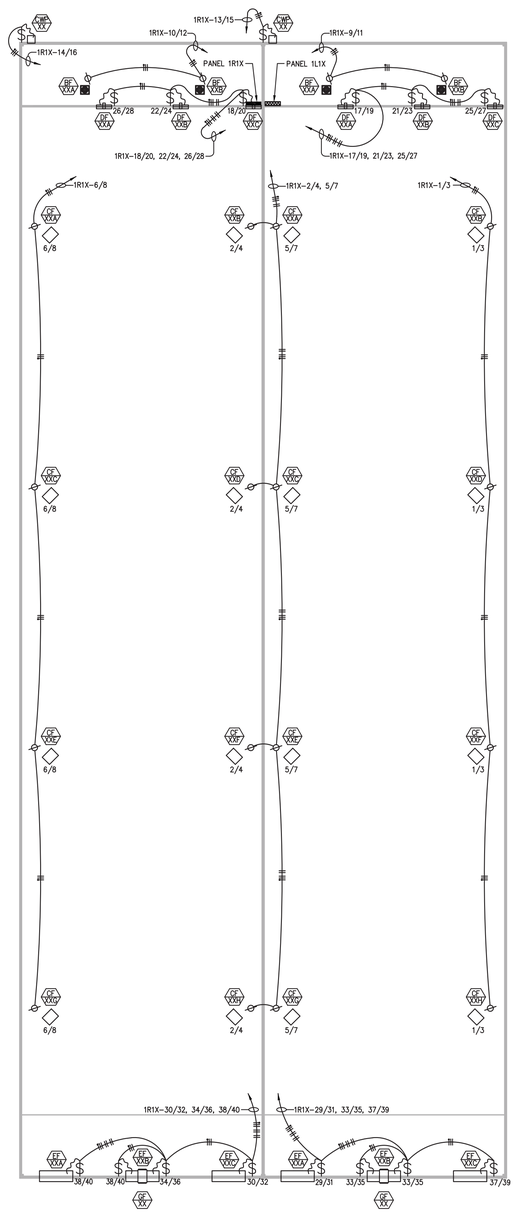
REV.	DESCRIPTION	DATE
1		

TITLE: HIPPO HARVEST HOLLISTER, CA
LOCATION: 21370 SHORE ROAD HOLLISTER, CA 95023
OWNER:

DR.	DATE	CHK.	APP'D.	SCALE
SK	05/19/25	DGS	DGS	AS NOTED

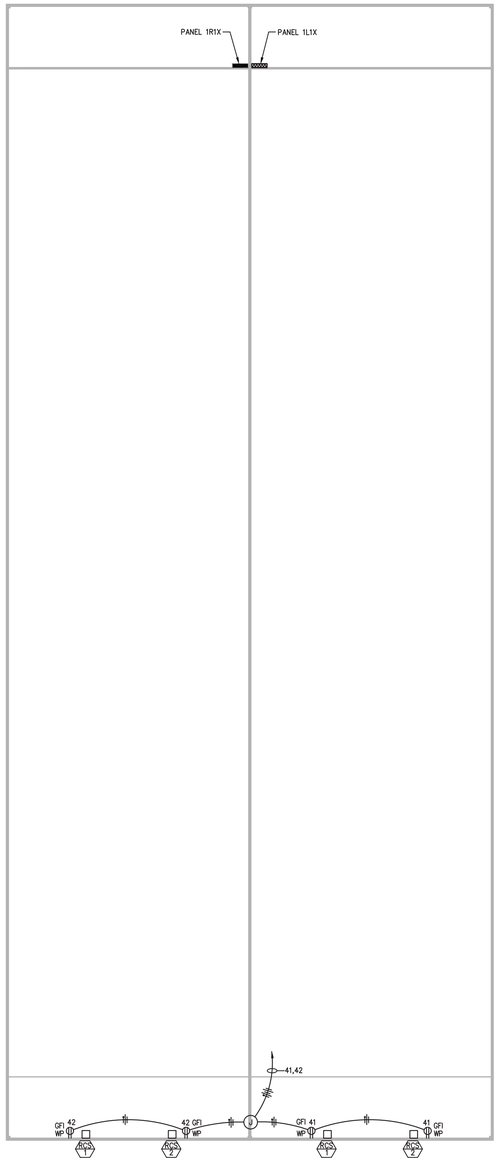
JOB NO. 25-008-0
DWG. NO. E1.10
SH 7 OF 23
REV. 0

BID SET #1 - ADDENDUM 2



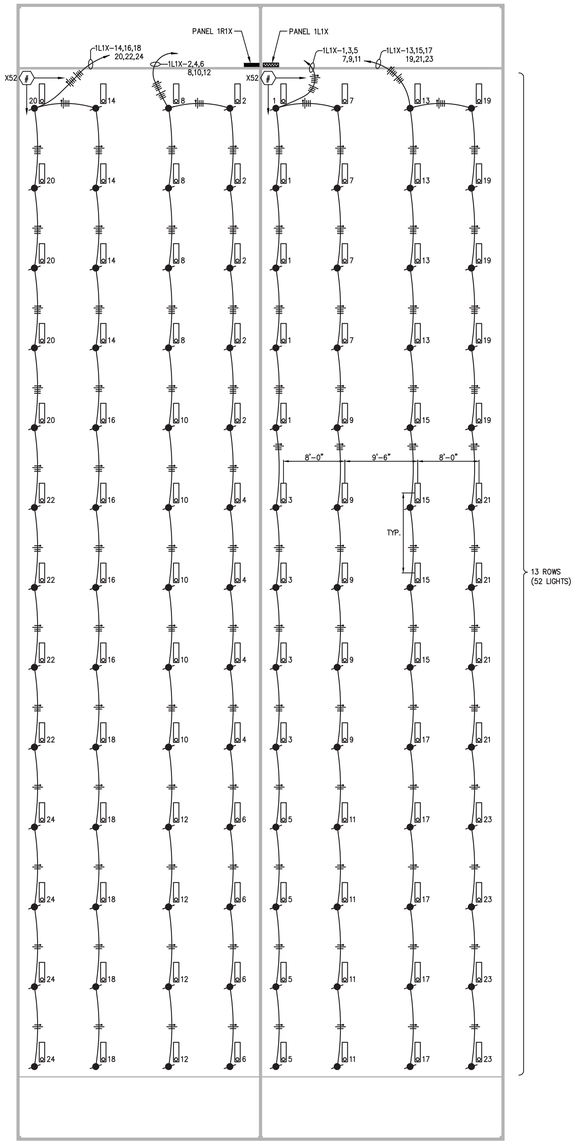
1 GREEN HOUSE MECHANICAL POWER PLAN
SCALE: 1" = 8'–0"

8 0 8 16
SCALE: 1" = 8'–0"



2 GREEN HOUSE POWER PLAN
SCALE: 1" = 8'–0"

8 0 8 16
SCALE: 1" = 8'–0"



3 GREEN HOUSE LIGHTING PLAN
SCALE: 1" = 8'–0"

8 0 8 16
SCALE: 1" = 8'–0"

TYPICAL 30'-6" X 148' GREEN HOUSE ELECTRICAL PLAN

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REV.	DESCRIPTION	DATE
1		

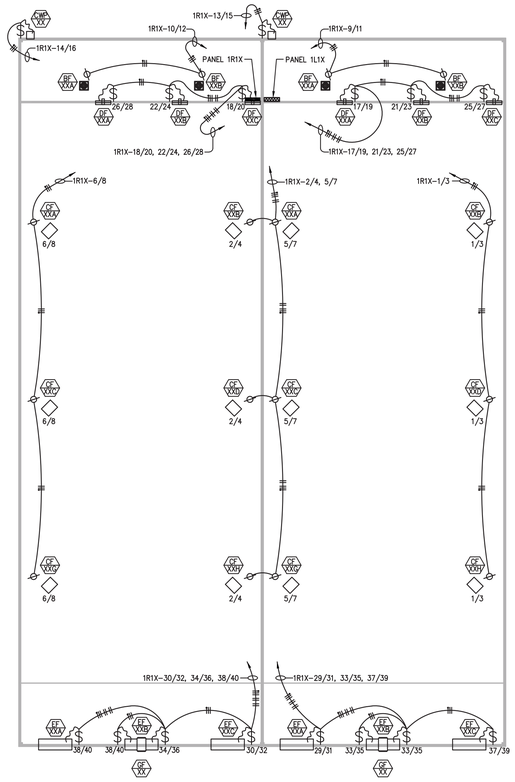
TITLE: HIPPO HARVEST HOLLISTER, CA
LOCATION: 21370 SHORE ROAD HOLLISTER, CA 95023
OWNER:

DR.	CHK.	APP'D.	SCALE
SK	DGS	DGS	AS NOTED

DATE 05/19/25

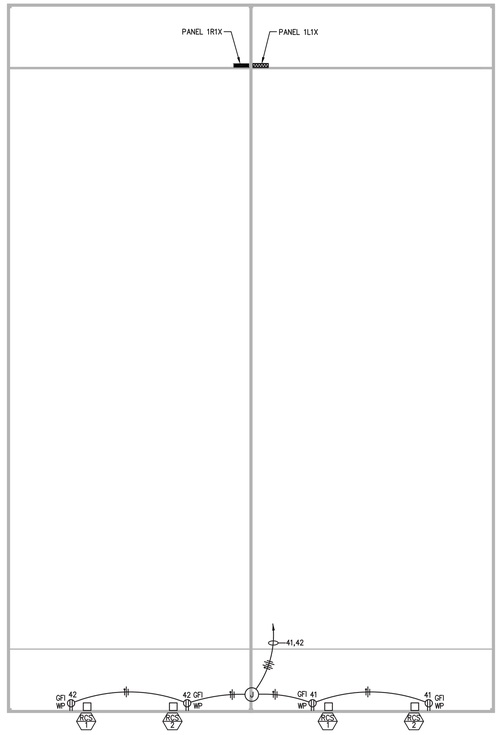
JOB NO. 25–008–0
DWG. NO. E1.20
SH 8 OF 23
REV. 0

BID SET #1 - ADDENDUM 2



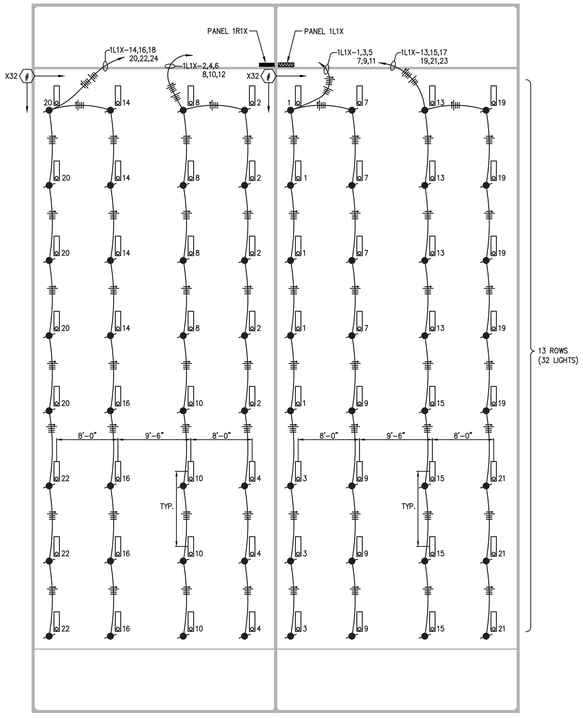
1 GREEN HOUSE MECHANICAL POWER PLAN
SCALE: 1" = 8'-0"

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



2 GREEN HOUSE POWER PLAN
SCALE: 1" = 8'-0"

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



3 GREEN HOUSE LIGHTING PLAN
SCALE: 1" = 8'-0"

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

TYPICAL 31'-6" X 92' GREEN HOUSE ELECTRICAL PLAN

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REV.	DESCRIPTION	DATE
1		

TITLE: HIPPO HARVEST HOLLISTER, CA
LOCATION: 21370 SHORE ROAD HOLLISTER, CA 95023
OWNER:

DR.	CHK.	APPD.	SCALE
SK	DGS	DGS	AS NOTED

DATE 05/19/25

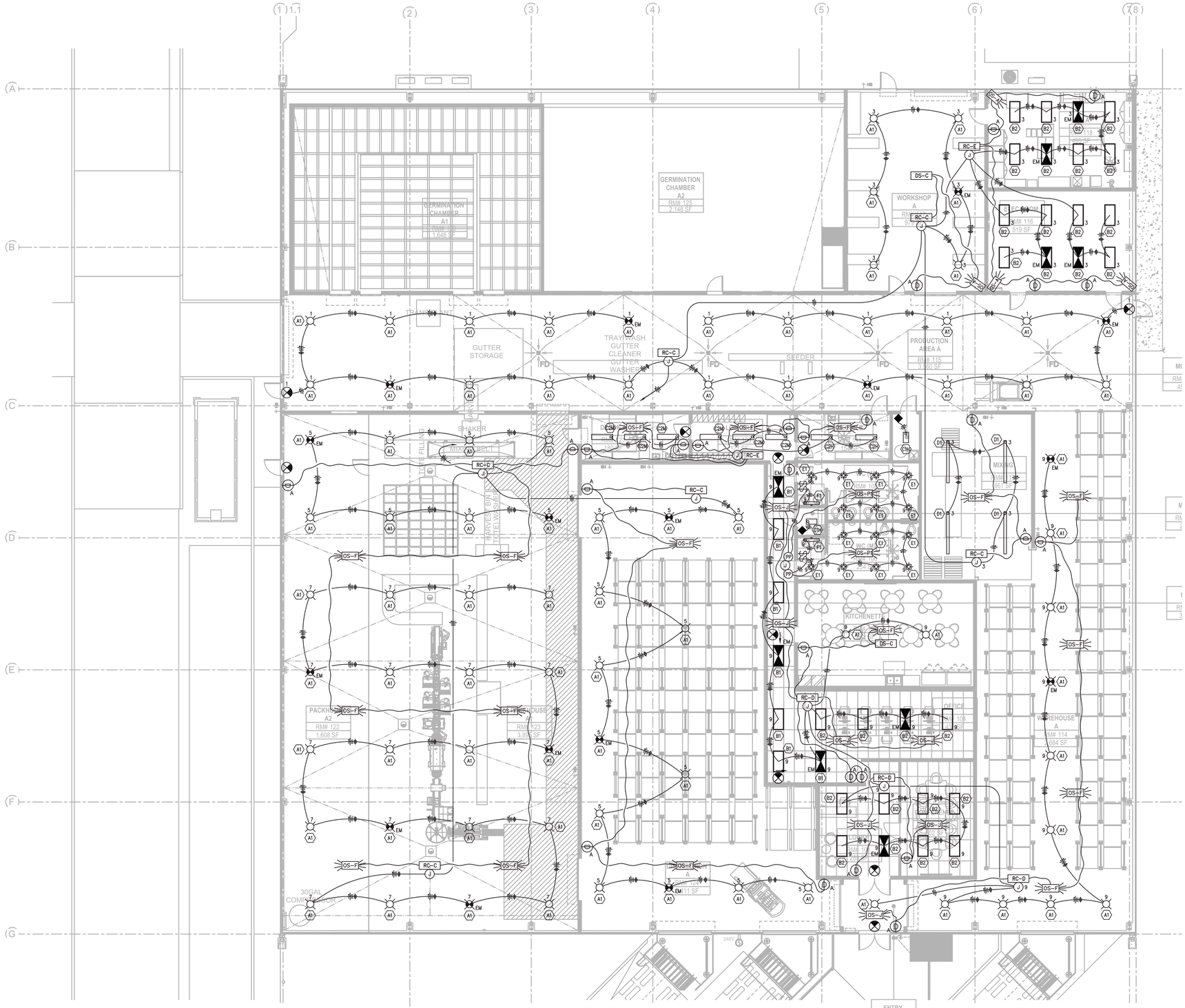
JOB NO. 25-008-0

DWG. NO. E1.30

SH 9 OF 23

REV. 0

BID SET #1 - ADDENDUM 2



1 BUILDING LIGHTING PLAN
SCALE: 1" = 8'-0"

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

DWG SYMBOL	ROOM CONTROLLER		
	MFG	MODEL	DESCRIPTION
RC-C	WATTSTOPPER	LMRC-211	ON-OFF (0-10V) DIMMING ROOM CONTROLLER WITH 1 RELAY
RC-D	WATTSTOPPER	LMRC-212	ON-OFF (0-10V) DIMMING ROOM CONTROLLER WITH 2 RELAYS
RC-E	WATTSTOPPER	LMRC-213	ON-OFF (0-10V) DIMMING ROOM CONTROLLER WITH 3 RELAYS

DWG SYMBOL	CEILING & WALL MOUNTED OCCUPANCY SENSORS		
	MFG	MODEL	DESCRIPTION
OS-J	WATTSTOPPER	LMDC-100	DUAL TECHNOLOGY CEILING SENSOR
OS-F	WATTSTOPPER	LMPC-100-1	PIR CEILING SENSOR, HIGH DENSITY LENS
OS-A	WATTSTOPPER	LMPX-100	PIR CEILING/WALL SENSOR

DWG SYMBOL	STAND ALONE DEVICES - LINE VOLTAGE & POWER PACK		
	MFG	MODEL	DESCRIPTION
OS-P1	WATTSTOPPER	DT-305	DUAL TECHNOLOGY CEILING OCCUPANCY SENSOR - LOW VOLTAGE

DWG SYMBOL	PERSONAL CONTROLS		
	MFG	MODEL	DESCRIPTION
A	WATTSTOPPER	LMDM-101	1 BUTTON DIMMING WALL SWITCH

DWG SYMBOL	DAYLIGHTING SENSORS		
	MFG	MODEL	DESCRIPTION
DS-C	WATTSTOPPER	LMLS-400	SINGLE ZONE CLOSED LOOP PHOTOSENSOR (ARTIFICIAL & DAYLIGHT)

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REV.	DESCRIPTION	DATE
1		

TITLE: HIPPO HARVEST HOLLISTER, CA
LOCATION: 21,370 SHORE ROAD HOLLISTER, CA 95023
OWNER:

DR.	CHK.	APPD.	SCALE
SK	DGS	DGS	AS NOTED

DATE 05/19/25

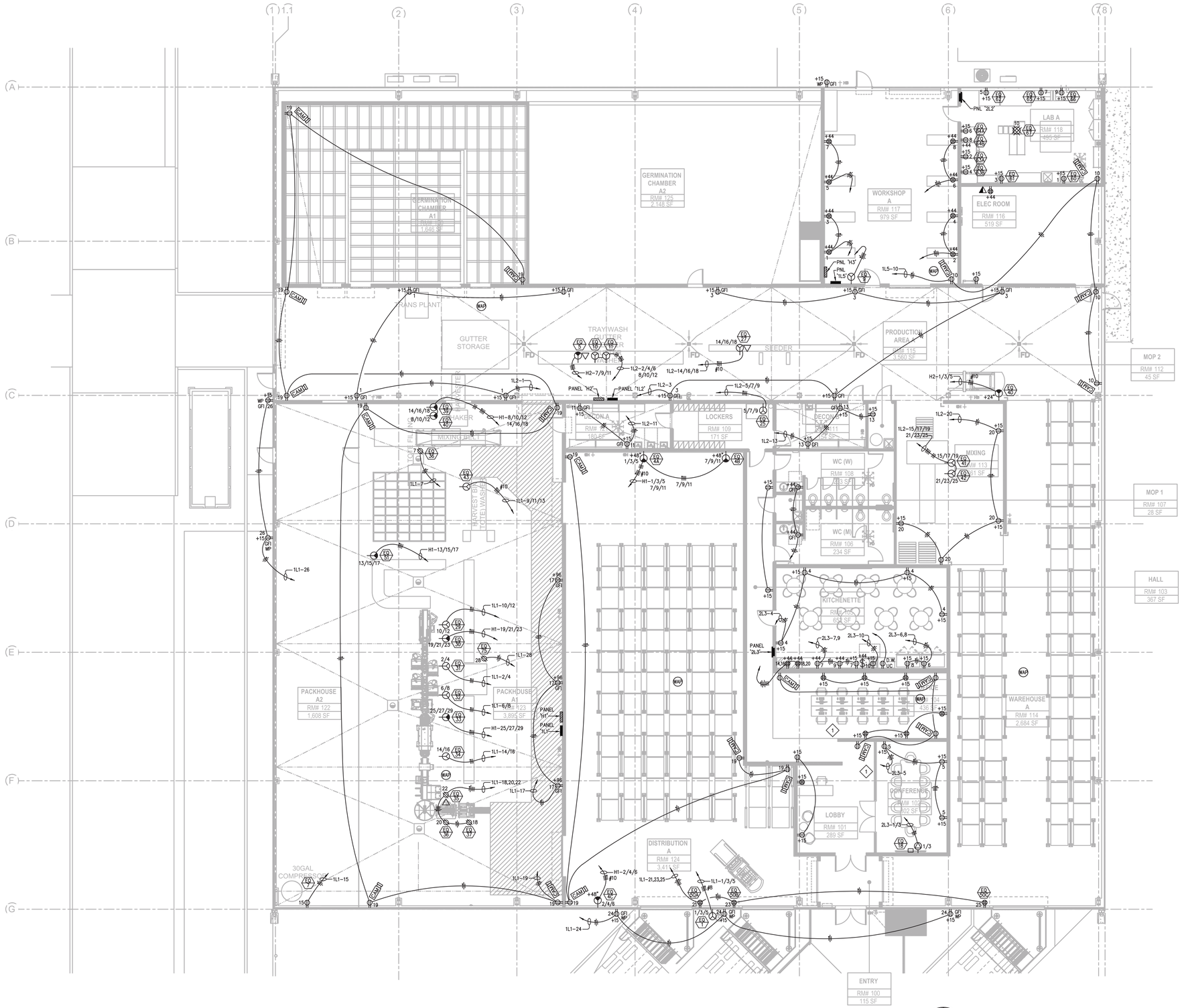
JOB NO. 25-008-0
DWG. NO. E2.10
SH 11 OF 23
REV. 0

BUILDING LIGHTING PLAN

BID SET #1 - ADDENDUM 2

SHEET NOTES:

1. SWITCHED RECEPT. TITLE 24



1 BUILDING/EQUIPMENT POWER PLAN
SCALE: 1" = 8'-0"

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

N

BUILDING/EQUIPMENT POWER PLAN

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REV.	DESCRIPTION	DATE
1		

TITLE: HIPPO HARVEST HOLLISTER, CA
LOCATION: 21370 SYCAMORE ROAD HOLLISTER, CA 95023
OWNER:

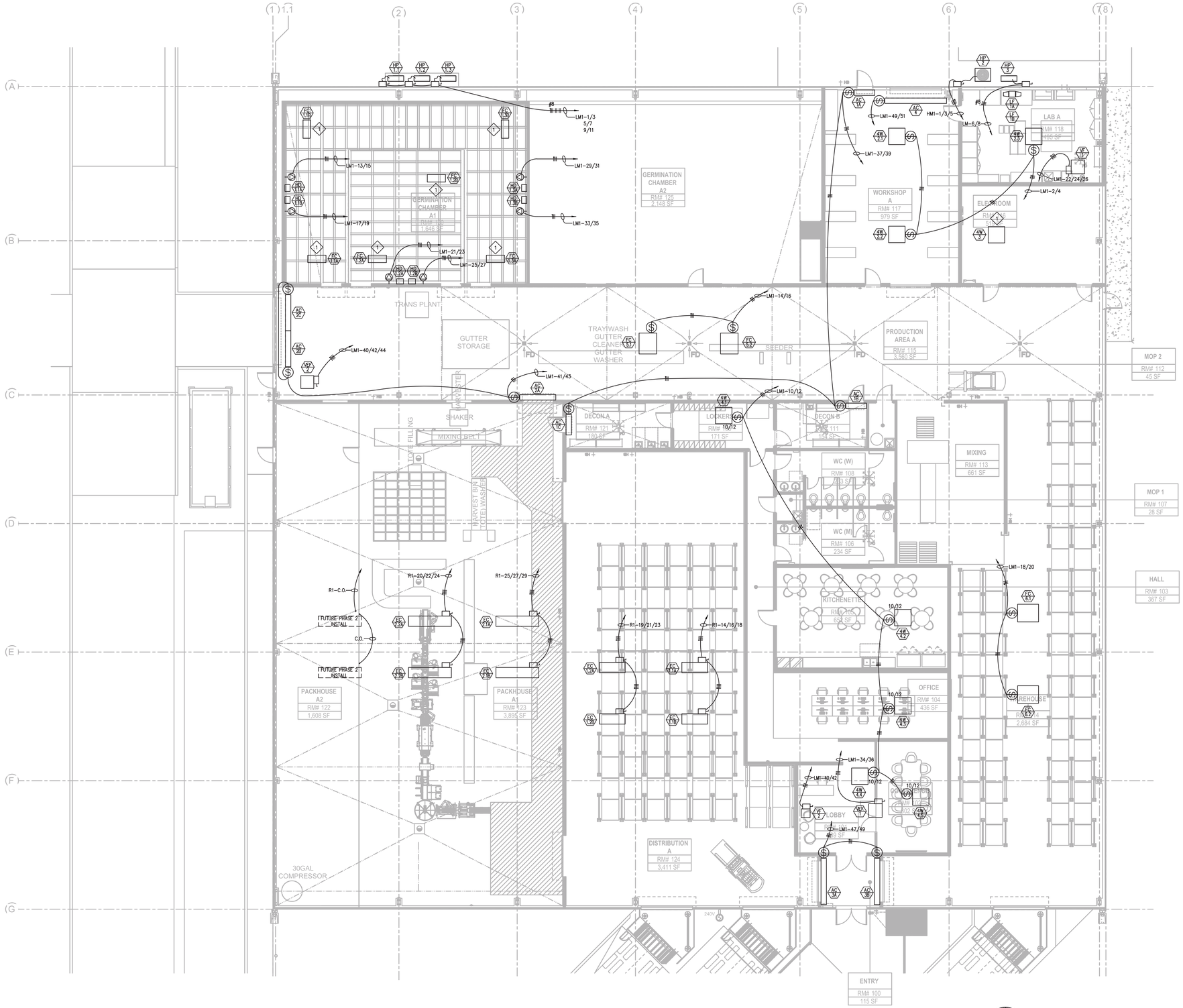
DR.	CHK.	APP'D.	DATE	SCALE
SK	DGS	DGS	05/19/25	AS NOTED

JOB NO. 25-008-0
DWG. NO. E3.10
SH 12 OF 23
REV. 0

BID SET #1 - ADDENDUM 2

SHEET NOTES:

1. FED FROM OUTDOOR UNIT.



1 BUILDING MECHANICAL/REFRIGERATION POWER PLAN
SCALE: 1" = 8'-0"

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

N

BUILDING MECHANICAL/REFRIGERATION POWER PLAN

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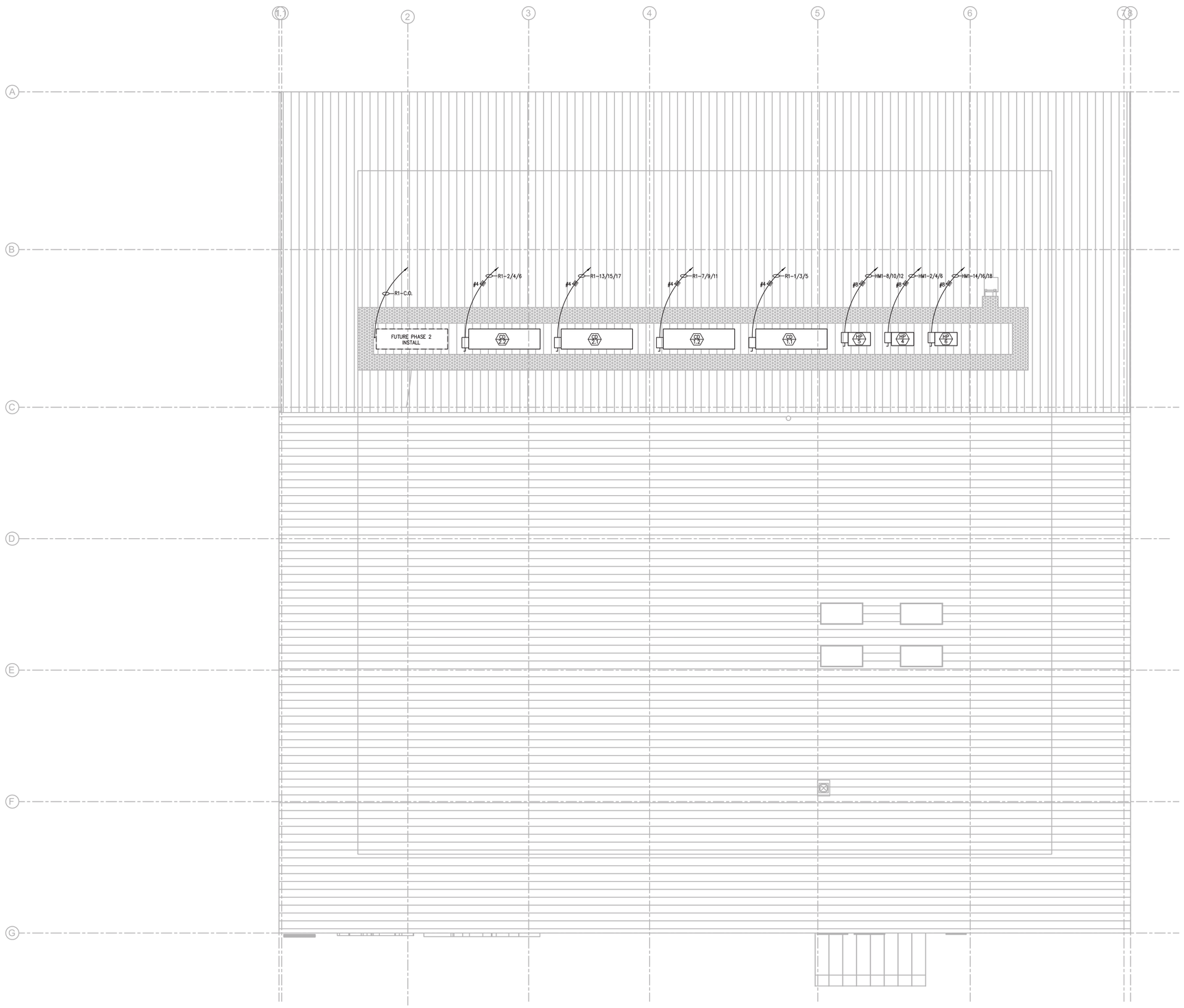
REV.	DESCRIPTION	DATE
1		

TITLE: HIPPO HARVEST HOLLISTER, CA
LOCATION: 21370 SHORE ROAD HOLLISTER, CA 95023
OWNER:

DR.	DATE	CHK.	APP'D.	SCALE
SK	05/19/25	DGS	DGS	AS NOTED

JOB NO. 25-008-0
DWG. NO. E4.10
SH 13 OF 23
REV. 0

BID SET #1 - ADDENDUM 2



1 ROOF POWER PLAN
SCALE: 1" = 8'-0"

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

N

BUILDING ROOF ELECTRICAL PLAN

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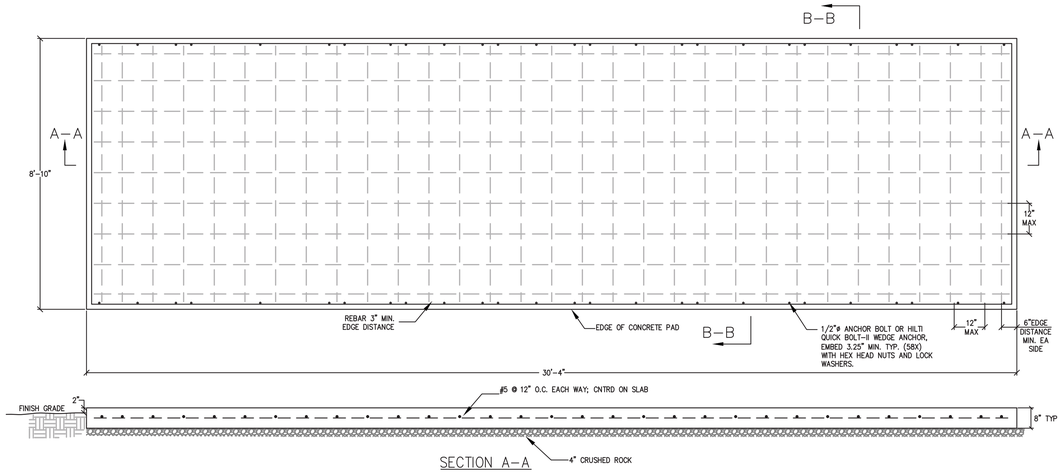
REV.	DESCRIPTION	DATE
1		

TITLE: **HIPPO HARVEST HOLLISTER, CA**
LOCATION: 2130 SHORE ROAD HOLLISTER, CA 95023
OWNER:

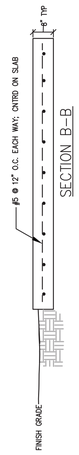
DR.	DATE	CHK.	APPD.	SCALE
SK	05/19/25	DGS	DGS	AS NOTED

JOB NO. 25-008-0
DWG. NO. **E4.20**
SH 14 OF 23
REV. 0

BID SET #1 - ADDENDUM 2



1 MAIN SWITCH GEAR PAD
NO SCALE



Site Condition: The Contractor shall examine and check all existing conditions, dimensions, levels and material and notify the Engineer of discrepancies.

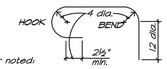
Footings: Footings shall rest on undisturbed soil. Footings shall extend a minimum of 12 inches below lowest adjacent grade. Footings are proportioned for an allowable soil pressure of 1500 psf per CBC Table 1806.2.

Concrete: Concrete shall be proportioned to give a 28 day compressive strength of at least 2500 psi for slabs and foundations. No Special Inspection required. Concrete shall have a minimum water:cement ration of 0.5. Use portland cement, ASTM C150, Type I or II with 3/4" minimum aggregate conforming to ASTM C33. Mix proportions shall be based on field experience per CBC Section 1905.3. The slump shall be the minimum consistent with the condition of placing but in general shall not exceed 4 inches. All concrete construction shall be in accordance with Chapter 19 of the California Building Code, 2019 Edition.

Reinforcing Bars: Reinforcing bars shall be deformed bars conforming to ASTM Standard Specification A615-76 Grade 40 for #4 bars and smaller and Grade 60 for #5 bars and larger. Reinforcing shall be placed in lengths as long as possible. Bars shall lap 60 diameters at splices unless otherwise shown or noted on the plans, using the diameter of the larger bar in case of difference in size. Splices shall be staggered and bars may be wired together at splices. Bend steel around corners 12" minimum. All reinforcing steel shall be in accordance with Chapter 19 of the California Building Code, 2019 Edition.

Bar coverage (face of bar to face of concrete) shall be as follows unless noted otherwise.

Concrete slab on grade	1½" min.
Concrete surface against earth when poured against forms exposed to weather or earth	3"min.
All others	2" min. See details



Bars shall have bends and hooks as follows except as otherwise shown or noted.

Anchor Bolts: Anchor bolt holes shall be standard headed bolts conforming to ASTM A-307. Bolts shall be hot dipped galvanized.

WEDGE ANCHORS (IN CONCRETE): ALL CONCRETE ANCHOR BOLTS OF THE EXPANSION TYPE (LOADED IN EITHER PULLOUT OR SHEAR) SHALL BE PROOF TESTED IN TENSION TO TWICE THE ALLOWABLE TENSION LOAD. WEDGE ANCHORS TO BE HILTI KWIK-BOLT TZ2 PER ICBO REPORT NO. ESR-4266 ISSUED DECEMBER 2020 OR EQUAL.

Minimum Proof Load Tests Values and Embedments

Size	Direct Pull-Out Tension	Torque Wrench-Torque	Embedments
3/8" dia.	2300#	20 ft-#	2½"
1/2" dia.	3300#	50 ft-#	3½"
5/8"dia.	4500#	60 ft-#	4"

GENERAL DESIGN CRITERIA:

Seismic:
Occupancy Category = II; Ip = 1.5
Seismic Design Category = "D". Site Class "D"
Ss = 1.642g; S1 = 0.617g
Fa = 1.0; Fv = 1.5
Sms = 1.971g
Sm1 = NULL
Sds = 1.314g
Sd1 = NULL

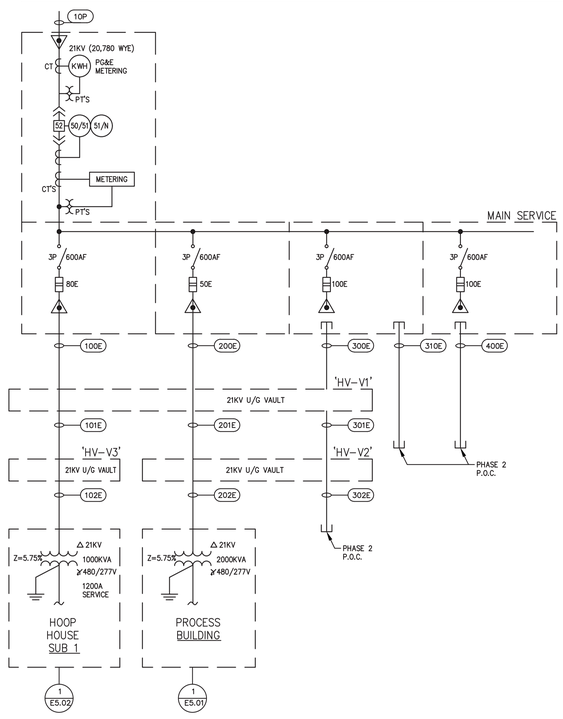
LONGITUDE & LADITUDE
LONG: -121.52402
LAT: 36.94810

NOTE: ALL CONSTRUCTION NOT SPECIFICALLY DETAILED SHALL BE BUILT TO CONFORM WITH SIMILAR CONSTRUCTION SHOWN AND THE REQUIREMENTS OF THE CALIFORNIA BUILDING CODE, 2019 EDITION.

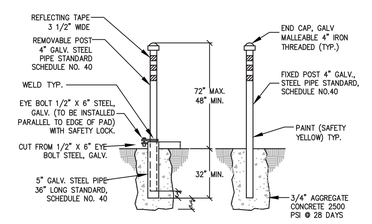
SITE DISTRIBUTION FEEDER SCHEDULE

MARK	WIRE SIZE	WIRE TYPE	CONDUIT SIZE	CONDUIT TYPE	ESTIMATED FEEDER LENGTH	FEEDER SEGMENT VOLTAGE DROP (V)	FEEDER SEGMENT VOLTAGE DROP (%)
10P	BY PG&E	BY PG&E	1–5"	PVCSCH40	–	–	–
100E	3 – 3/0 CU 21KV CABLE + 1 – #1 CU GND	133% EPR / XHHW-2	1–5"	PVCSCH40	X	–	–
101E	3 – 3/0 CU 21KV CABLE + 1 – #1 CU GND	133% EPR / XHHW-2	1–5"	PVCSCH40	X	–	–
102E	3 – 3/0 CU 21KV CABLE + 1 – #1 CU GND	133% EPR / XHHW-2	1–5"	PVCSCH40	X	–	–
200E	3 – 3/0 CU 21KV CABLE + 1 – #1 CU GND	133% EPR / XHHW-2	1–5"	PVCSCH40	X	–	–
201E	3 – 3/0 CU 21KV CABLE + 1 – #1 CU GND	133% EPR / XHHW-2	1–5"	PVCSCH40	X	–	–
202E	3 – 3/0 CU 21KV CABLE + 1 – #1 CU GND	133% EPR / XHHW-2	1–5"	PVCSCH40	X	–	–
300E	CONDUIT ONLY	N/A	1–5"	PVCSCH40	X	–	–
301E	CONDUIT ONLY	N/A	1–5"	PVCSCH40	X	–	–
302E	CONDUIT ONLY	N/A	1–5"	PVCSCH40	X	–	–
310E	CONDUIT ONLY	N/A	1–5"	PVCSCH40	X	–	–
400E	CONDUIT ONLY	N/A	1–5"	PVCSCH40	X	–	–

NOTE: ALL WIRE TO BE CU UNLESS OTHERWISE NOTED.

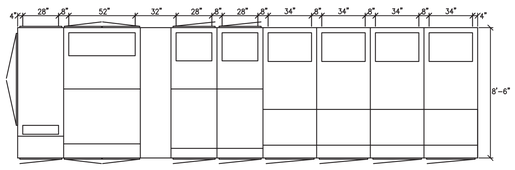


3 MAIN SERVICE ONE–LINE – PHASE 1 WORK U.O.N.
NO SCALE

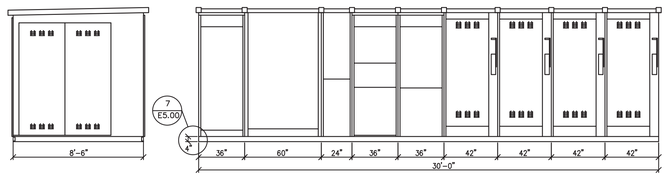


2 PROTECTION BOLLARD
NO SCALE

0908–1_0



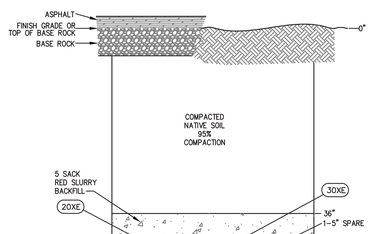
PLAN VIEW



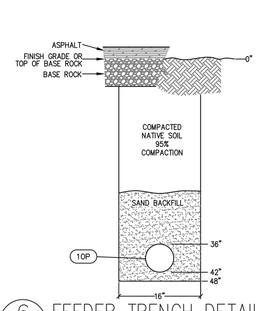
SIDE ELEVATION

FRONT ELEVATION

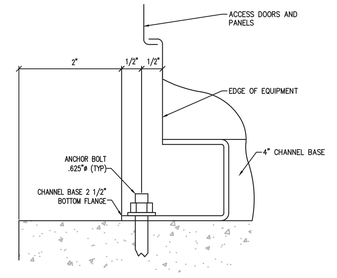
4 MAIN SERVICE SWITCH GEAR
SCALE: 1" = 4'–0"



5 FEEDER TRENCH DETAIL
NO SCALE



6 FEEDER TRENCH DETAIL
NO SCALE



7 EQUIPMENT ANCHORING DETAIL
NO SCALE

ONE–LINE, ELECTRICAL DETAILS

BID SET #1 - ADDENDUM 2

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ELECTRICAL
STATE OF CALIFORNIA

Central Pacific Engineering, Inc.
Professional Engineers
3035 Soquel Avenue, Suite 105, Santa Cruz, CA 95062
831-476-1525 FAX: 831-475-5657
email: tpe@cpeinc.com

REV.	DESCRIPTION	DATE
1		

TITLE: HIPPO HARVEST HOLLISTER CA
LOCATION: 21370 SHORE ROAD HOLLISTER, CA 95023
OWNER:

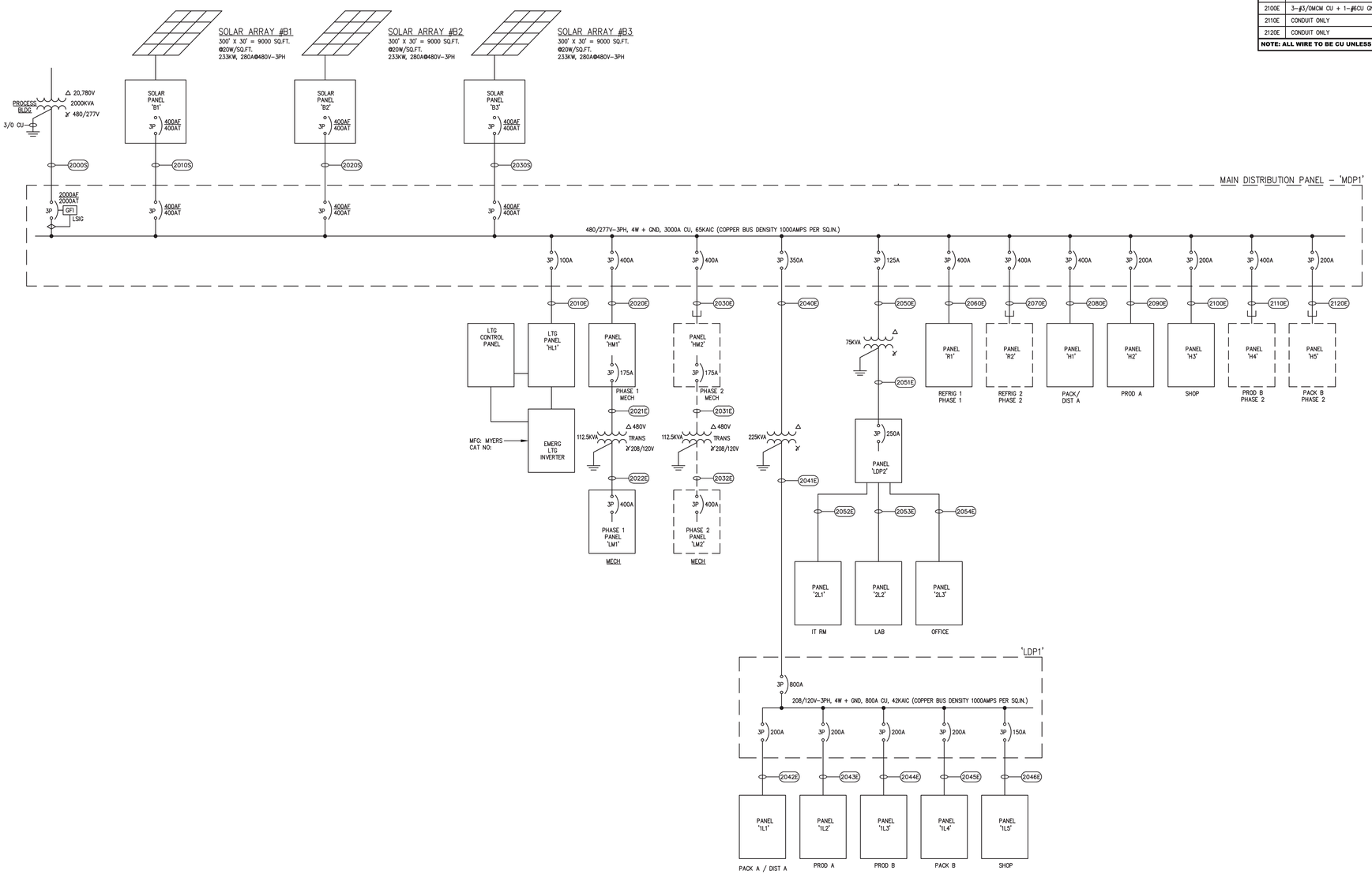
DR.	DATE	CHK.	APP'D.	SCALE
SK	05/19/25	DGS	DGS	AS NOTED

JOB NO. 25–008–0
DWG. NO. E5.00
SH 15 OF 23
REV. 0

FEEDER SCHEDULE

MARK	WIRE SIZE	WIRE TYPE	CONDUIT SIZE	CONDUIT TYPE	ESTIMATED FEEDER LENGTH	FEEDER SEGMENT VOLTAGE DROP (V)	FEEDER SEGMENT VOLTAGE DROP (%)
2000S	7-(4-#600MCM CU + 1-#3/0CU GND)	XHHW-2	7-4"	PVCSCH40	70	0.80	0.17%
2010S	4-#500MCM CU + 1-#2CU GND	THHN/THWN	1-4"	EMT	150	2.88	0.60%
2020S	4-#500MCM CU + 1-#2CU GND	THHN/THWN	1-4"	EMT	150	2.88	0.60%
2030S	4-#500MCM CU + 1-#2CU GND	THHN/THWN	1-4"	EMT	150	2.88	0.60%
2010E	4-#1CU + 1-#6CU GND	THHN/THWN	1-2"	EMT	50	0.78	0.17%
2020E	3-#500MCM CU + 1-#2CU GND	THHN/THWN	1-4"	EMT	100	1.59	0.34%
2021E	3-#2/0CU + 1-#6CU GND	THHN/THWN	1-2"	FLEX	15	0.33	0.07%
2022E	4-#500MCM CU + 1-#2CU GND	THHN/THWN	1-4"	FLEX	20	0.27	0.13%
2030E	CONDUIT ONLY	N/A	1-4"	EMT	100	N/A	N/A
2031E	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2032E	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2040E	3-#500MCM CU + 1-#2CU GND	THHN/THWN	1-4"	EMT / FLEX	150	1.95	0.41%
2041E	2-(4-#500MCM CU + 1-#1/0CU GND)	THHN/THWN	2-4"	FLEX	15	0.23	0.12%
2042E	4-#3/0CU + 1-#6CU GND	THHN/THWN	1-2"	EMT	100	1.91	0.92%
2043E	4-#3/0CU + 1-#6CU GND	THHN/THWN	1-2"	EMT	100	1.91	0.92%
2044E	4-#3/0CU + 1-#6CU GND	THHN/THWN	1-2"	EMT	100	1.91	0.92%
2045E	4-#3/0CU + 1-#6CU GND	THHN/THWN	1-2"	EMT	100	1.91	0.92%
2046E	4-#1/0CU + 1-#6CU GND	THHN/THWN	1-2"	EMT	100	1.58	0.76%
2050E	3-#1CU + 1-#6CU GND	THHN/THWN	1-2"	EMT / FLEX	50	1.04	0.22%
2051E	4-#250MCM CU + 1-#4CU GND	THHN/THWN	1-3"	FLEX	15	0.24	0.12%
2052E	4-#1CU + 1-#6CU GND	THHN/THWN	1-2"	EMT	50	1.00	0.49%
2053E	4-#1CU + 1-#6CU GND	THHN/THWN	1-2"	EMT	125	2.49	1.20%
2054E	4-#1CU + 1-#6CU GND	THHN/THWN	1-2"	EMT	150	3.59	1.73%
2060E	3-#500MCM CU + 1-#2CU GND	THHN/THWN	1-4"	EMT	150	2.88	0.60%
2070E	CONDUIT ONLY	N/A	1-4"	EMT	50	N/A	N/A
2080E	3-#500MCM CU + 1-#2CU GND	THHN/THWN	1-4"	EMT	300	5.76	1.20%
2090E	3-#3/0MCM CU + 1-#6CU GND	THHN/THWN	1-3"	EMT	250	6.46	1.35%
2100E	3-#3/0MCM CU + 1-#6CU GND	THHN/THWN	1-3"	EMT	250	6.46	1.35%
2110E	CONDUIT ONLY	N/A	1-4"	EMT	300	N/A	N/A
2120E	CONDUIT ONLY	N/A	1-3"	EMT	250	N/A	N/A

NOTE: ALL WIRE TO BE CU UNLESS OTHERWISE NOTED.



1 ONE-LINE DIAGRAM
NO SCALE

ELECTRICAL ONE-LINE DIAGRAM

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Professional Engineers
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831-476-1525 FAX: 831-475-5657
email: cpe@cpeinc.com

REV.	DESCRIPTION	DATE
1		

TITLE: HIPPO HARVEST
HOLLISTER, CA
LOCATION: 21370 SHORE ROAD
HOLLISTER, CA 95023
OWNER:

DR.	DATE	CHK.	APP'D.	SCALE
SK	05/19/25	DGS	DGS	AS NOTED

JOB NO. 25-008-0
DWG. NO. E5.01
SH 16 OF 23
REV. 0

BID SET #1 - ADDENDUM 2

FEEDER SCHEDULE

MARK	WIRE SIZE	WIRE TYPE	CONDUIT SIZE	CONDUIT TYPE	ESTIMATED FEEDER LENGTH	FEEDER SEGMENT VOLTAGE DROP (V)	FEEDER SEGMENT VOLTAGE DROP (%)
1000S	5-(4-#600MCM CU + 1-#3/0CU GND)	XHHW-2	5-4"	PVCSCH40	70	0.68	0.15%
1010S	6-(4-#600MCM CU + 1-#3/0CU GND)	XHHW-2	6-4"	PVCSCH40	70	0.71	0.15%
1020S	4-#500MCM CU + 1-#2CU GND	XHHW-2	1-4"	PVCSCH40	150	2.88	0.60%
1030S	4-#500MCM CU + 1-#2CU GND	XHHW-2	1-4"	PVCSCH40	150	2.88	0.60%
1100E	3-#500MCM CU + 1-#2CU GND	XHHW-2	1-4"	PVCSCH40	300	3.90	0.82%
1101E	3-#500MCM CU + 1-#2CU GND	THHN/THWN	1-4"	FLEX	15	0.20	0.05%
1102E	2-(4-#500MCM CU + 1-#1/0CU GND)	THHN/THWN	2-4"	FLEX	15	0.23	0.12%
1110E	4-#2/0CU + 1-#6CU GND	XHHW-2	1-2"	PVCSCH40	250	3.76	1.81%
1120E	4-#2/0CU + 1-#6CU GND	XHHW-2	1-2"	PVCSCH40	250	3.76	1.81%
1130E	4-#2/0CU + 1-#6CU GND	XHHW-2	1-2"	PVCSCH40	250	3.76	1.81%
1140E	4-#2/0CU + 1-#6CU GND	XHHW-2	1-2"	PVCSCH40	250	3.76	1.81%
1150E	4-#2/0CU + 1-#6CU GND	XHHW-2	1-2"	PVCSCH40	250	3.76	1.81%
1160E	4-#2/0CU + 1-#6CU GND	XHHW-2	1-2"	PVCSCH40	250	3.76	1.81%
1200E	3-(4-#600MCM CU + 1-#3/0CU GND)	XHHW-2	3-4"	PVCSCH40	300	2.89	0.61%
1210E	4-#2/0CU + 1-#6CU GND	XHHW-2	1-2"	PVCSCH40	250	5.43	1.14%
1220E	4-#2/0CU + 1-#6CU GND	XHHW-2	1-2"	PVCSCH40	250	5.43	1.14%
1230E	4-#2/0CU + 1-#6CU GND	XHHW-2	1-2"	PVCSCH40	250	5.43	1.14%
1240E	4-#2/0CU + 1-#6CU GND	XHHW-2	1-2"	PVCSCH40	250	5.43	1.14%
1250E	4-#2/0CU + 1-#6CU GND	XHHW-2	1-2"	PVCSCH40	250	5.43	1.14%
1260E	4-#2/0CU + 1-#6CU GND	XHHW-2	1-2"	PVCSCH40	250	5.43	1.14%
1300E	3-#500MCM CU + 1-#2CU GND	XHHW-2	1-4"	PVCSCH40	300	3.90	0.82%
1301E	3-#500MCM CU + 1-#2CU GND	THHN/THWN	1-4"	FLEX	15	0.20	0.05%
1302E	2-(4-#500MCM CU + 1-#1/0CU GND)	THHN/THWN	2-4"	FLEX	15	0.23	0.12%

FEEDER SCHEDULE

MARK	WIRE SIZE	WIRE TYPE	CONDUIT SIZE	CONDUIT TYPE	ESTIMATED FEEDER LENGTH	FEEDER SEGMENT VOLTAGE DROP (V)	FEEDER SEGMENT VOLTAGE DROP (%)
1310E	4-#2/0CU + 1-#6CU GND	XHHW-2	1-2"	PVCSCH40	250	3.76	1.81%
1320E	4-#2/0CU + 1-#6CU GND	XHHW-2	1-2"	PVCSCH40	250	3.76	1.81%
1330E	4-#2/0CU + 1-#6CU GND	XHHW-2	1-2"	PVCSCH40	250	3.76	1.81%
1340E	4-#2/0CU + 1-#6CU GND	XHHW-2	1-2"	PVCSCH40	250	3.76	1.81%
1350E	4-#2/0CU + 1-#6CU GND	XHHW-2	1-2"	PVCSCH40	250	3.76	1.81%
1360E	4-#2/0CU + 1-#6CU GND	XHHW-2	1-2"	PVCSCH40	250	3.76	1.81%
1400E	3-(4-#600MCM CU + 1-#3/0CU GND)	XHHW-2	3-4"	PVCSCH40	300	2.89	0.61%
1410E	4-#2/0CU + 1-#6CU GND	XHHW-2	1-2"	PVCSCH40	250	5.43	1.14%
1420E	4-#2/0CU + 1-#6CU GND	XHHW-2	1-2"	PVCSCH40	250	5.43	1.14%
1430E	4-#2/0CU + 1-#6CU GND	XHHW-2	1-2"	PVCSCH40	250	5.43	1.14%
1440E	4-#2/0CU + 1-#6CU GND	XHHW-2	1-2"	PVCSCH40	250	5.43	1.14%
1450E	4-#2/0CU + 1-#6CU GND	XHHW-2	1-2"	PVCSCH40	250	5.43	1.14%
1460E	4-#2/0CU + 1-#6CU GND	XHHW-2	1-2"	PVCSCH40	250	5.43	1.14%
1500E	3-#500MCM CU + 1-#2CU GND	XHHW-2	1-4"	PVCSCH40	300	3.90	0.82%
1501E	3-#500MCM CU + 1-#2CU GND	THHN/THWN	1-4"	FLEX	15	0.20	0.05%
1502E	2-(4-#500MCM CU + 1-#1/0CU GND)	THHN/THWN	2-4"	FLEX	15	0.23	0.12%
1510E	4-#2/0CU + 1-#6CU GND	XHHW-2	1-2"	PVCSCH40	250	3.76	1.81%
1520E	4-#2/0CU + 1-#6CU GND	XHHW-2	1-2"	PVCSCH40	250	3.76	1.81%
1530E	4-#2/0CU + 1-#6CU GND	XHHW-2	1-2"	PVCSCH40	250	3.76	1.81%
1540E	4-#2/0CU + 1-#6CU GND	XHHW-2	1-2"	PVCSCH40	250	3.76	1.81%
1550E	4-#2/0CU + 1-#6CU GND	XHHW-2	1-2"	PVCSCH40	250	3.76	1.81%
1560E	4-#2/0CU + 1-#6CU GND	XHHW-2	1-2"	PVCSCH40	250	3.76	1.81%
1600E	3-(4-#600MCM CU + 1-#3/0CU GND)	XHHW-2	3-4"	PVCSCH40	300	2.89	0.61%

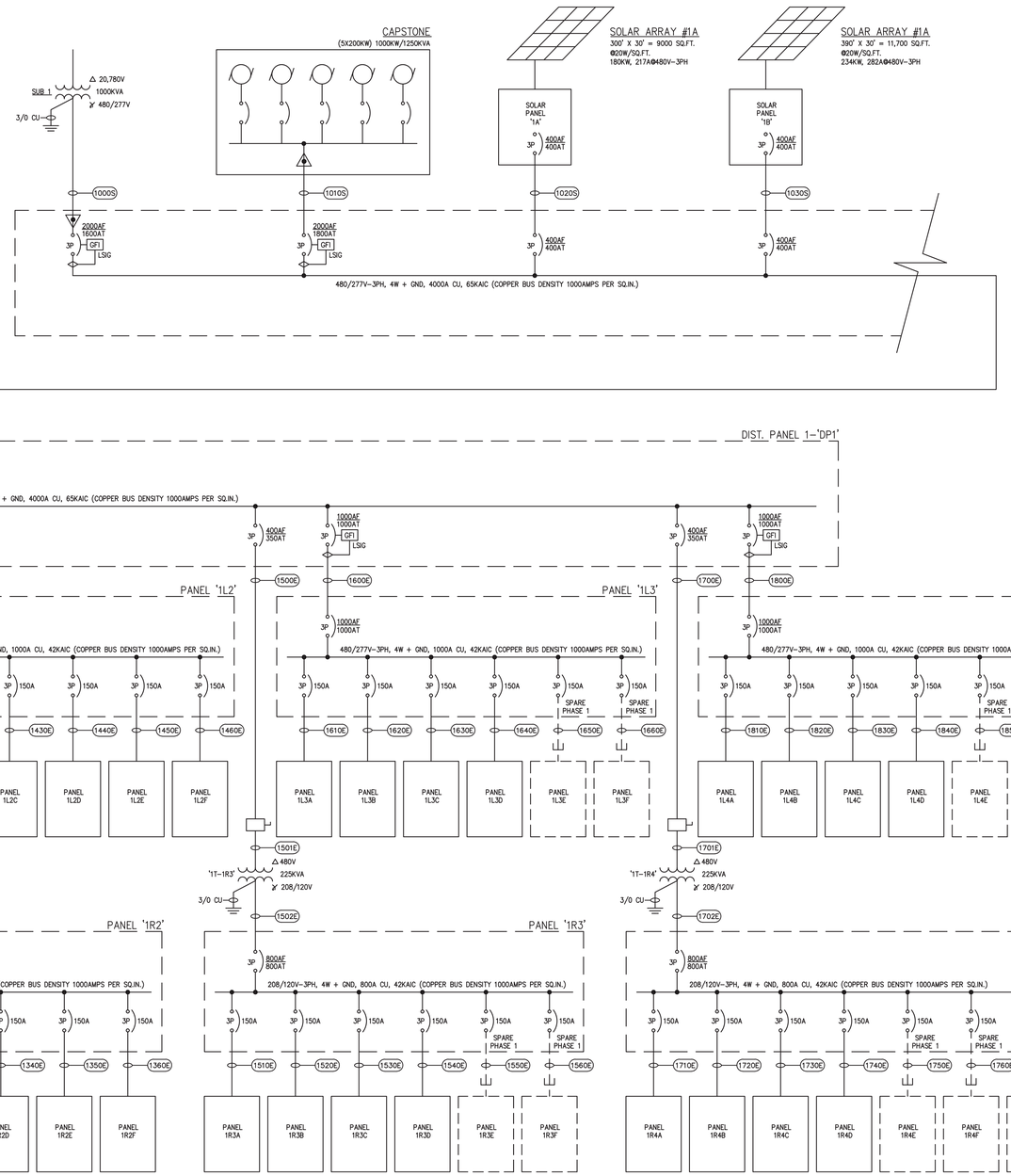
FEEDER SCHEDULE

MARK	WIRE SIZE	WIRE TYPE	CONDUIT SIZE	CONDUIT TYPE	ESTIMATED FEEDER LENGTH	FEEDER SEGMENT VOLTAGE DROP (V)	FEEDER SEGMENT VOLTAGE DROP (%)
1610E	4-#2/0CU + 1-#6CU GND	XHHW-2	1-2"	PVCSCH40	250	5.43	1.14%
1620E	4-#2/0CU + 1-#6CU GND	XHHW-2	1-2"	PVCSCH40	250	5.43	1.14%
1630E	4-#2/0CU + 1-#6CU GND	XHHW-2	1-2"	PVCSCH40	250	5.43	1.14%
1640E	4-#2/0CU + 1-#6CU GND	XHHW-2	1-2"	PVCSCH40	250	5.43	1.14%
1650E	4-#2/0CU + 1-#6CU GND	XHHW-2	1-2"	PVCSCH40	250	5.43	1.14%
1660E	4-#2/0CU + 1-#6CU GND	XHHW-2	1-2"	PVCSCH40	250	5.43	1.14%
1700E	3-#500MCM CU + 1-#2CU GND	XHHW-2	1-4"	PVCSCH40	300	3.90	0.82%
1701E	3-#500MCM CU + 1-#2CU GND	THHN/THWN	1-4"	FLEX	15	0.20	0.05%
1702E	2-(4-#500MCM CU + 1-#1/0CU GND)	THHN/THWN	2-4"	FLEX	15	0.23	0.12%
1710E	4-#2/0CU + 1-#6CU GND	XHHW-2	1-2"	PVCSCH40	250	3.76	1.81%
1740E	4-#2/0CU + 1-#6CU GND	XHHW-2	1-2"	PVCSCH40	250	3.76	1.81%
1730E	4-#2/0CU + 1-#6CU GND	XHHW-2	1-2"	PVCSCH40	250	3.76	1.81%
1740E	4-#2/0CU + 1-#6CU GND	XHHW-2	1-2"	PVCSCH40	250	3.76	1.81%
1750E	4-#2/0CU + 1-#6CU GND	XHHW-2	1-2"	PVCSCH40	250	3.76	1.81%
1760E	4-#2/0CU + 1-#6CU GND	XHHW-2	1-2"	PVCSCH40	250	3.76	1.81%
1800E	3-(4-#600MCM CU + 1-#3/0CU GND)	XHHW-2	3-4"	PVCSCH40	300	2.89	0.61%
1810E	4-#2/0CU + 1-#6CU GND	XHHW-2	1-2"	PVCSCH40	250	5.43	1.14%
1820E	4-#2/0CU + 1-#6CU GND	XHHW-2	1-2"	PVCSCH40	250	5.43	1.14%
1830E	4-#2/0CU + 1-#6CU GND	XHHW-2	1-2"	PVCSCH40	250	5.43	1.14%
1840E	4-#2/0CU + 1-#6CU GND	XHHW-2	1-2"	PVCSCH40	250	5.43	1.14%
1850E	4-#2/0CU + 1-#6CU GND	XHHW-2	1-2"	PVCSCH40	250	5.43	1.14%
1860E	4-#2/0CU + 1-#6CU GND	XHHW-2	1-2"	PVCSCH40	250	5.43	1.14%

NOTE: ALL WIRE TO BE CU UNLESS OTHERWISE NOTED.

④ SHEET NOTES:

1. PHASE 1, PARTIAL CONDUIT ONLY. SEE DWG E1.10.



1 ONE-LINE DIAGRAM
NO SCALE

ELECTRICAL ONE-LINE DIAGRAM

PROPRIETARY DATA
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REGISTERED PROFESSIONAL ENGINEER GRANT PRELIMINARY NOT FOR CONSTRUCTION ELECTRICAL STATE OF CALIFORNIA

Central Pacific Engineering, Inc.
Professional Engineers
9035 Soquel Avenue, Suite 105, Santa Cruz, CA 95062
831-476-1525 FAX: 831-475-5657
email: cpe@cpeinc.com

REV.	DESCRIPTION	DATE
1		

TITLE: HIPPO HARVEST HOLLISTER, CA
LOCATION: 21370 SHORE ROAD HOLLISTER, CA 95023
OWNER:

DR.	CHK.	APPD.	DATE	SCALE
SK	DGS	DGS	05/19/25	AS NOTED

JOB NO. 25-008-0
DWG. NO. E5.02
SH 17 OF 23
REV. 0

BID SET #1 - ADDENDUM 2



1 BUILDING PHOTOMETRICS PLAN – NORMAL
SCALE: 1" = 8'-0"

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

BUILDING PHOTOMETRICS PLAN - NORMAL

PROPRIETARY DATA
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GRAPHIC SCALE
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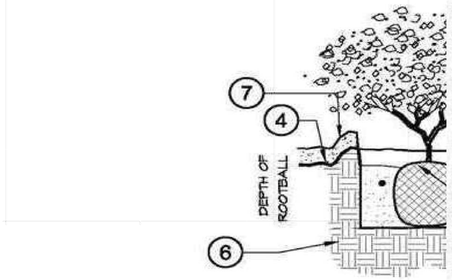
REV.	DESCRIPTION	DATE
1		

TITLE HIPPO HARVEST HOLLISTER, CA
LOCATION: 21370 SHORE ROAD HOLLISTER, CA 95023
OWNER:

DR.	DATE	CHK.	APPD.	SCALE
SK	05/19/25	DGS	DGS	AS NOTED

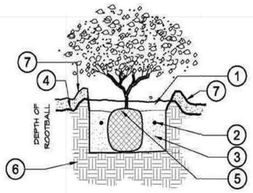
JOB NO. 25-008-0
DWG. NO. EL2.00
SH 22 OF 23
REV. 0

BID SET #1 - ADDENDUM 2



① WATER BASIN WITH 2" X 2" SHREDDE

② TRI-C MYCO PAKS (SEE DETAIL "E" ON



24" BOX

① WATER BASIN WITH 2" X 2" SHREDDED BARK MULCH.

② TRI-C MYCO PAKS (SEE DETAIL "E" ON THIS SHEET). APPLICATION RATES PER MANUFACTURER SPECIFICATIONS.

③ BACKFILL MIX- 1/3 SITE SOIL, 1/3 SAND, 1/3 GROW MULCH.

④ FINISH GRADE

⑤ ROOTBALL 1"-2" ABOVE FINISH GRADE

⑥ NATIVE SOIL SUBGRADE EXCAVATE TO CORRECT HEIGHT FOR PLANTING. SCARIFY BOTTOM TO ENSURE ADEQUATE DRAINAGE FOR HEALTHY GROWTH OF PLANT.

⑦ 3" MULCH LAYER



PLANT LEGEND

BOTANICAL	COMMON	SIZE	QTY	WATER
Tree				
Olea europaea 'Swan Hill'	Swan Hill Olives® Tree	24" box	12	Very Low, Medium
Pistacia chinensis 'Keith Davey'	Keith Davey Chinese Pistache	24" box	6	Low
Quercus agrifolia	Coast Live Oak	24" box	3	Very Low, Low
Shrub				
Euryops pectinatus 'Viridis'	Green Shrub Daisy	5 gal	41	Low
Myrica californica	Pacific Wax Myrtle	5 gal	5	Low
Salvia leucantha	Mexican Sage	5 gal	43	Low
Ground cover				
Ceanothus griseus var. horizontalis	Carmel Creeper Ceanothus	5 gal	57	Low

LOW VOLTAGE LIGHTS- BY ALLIANCE

SYMBOL	MANUFACTURER / MODEL / DESCRIPTION	QTY
	ALLIANCE I1150 TRANSFORMER	02
	PATH LIGHT - PL300-LED 22" HIGH ORDER CODE: PL300-BT, BRASS, (AB) AGED BRASS, 15-200LM, 2-4W, RBG & DIMMING OPTION	18
	UP LIGHT - BL200 BRASS LEDGE LIGHT FIXTURE. 2.5" W X 7.25" L ORDER CODE: BL200, BRASS, (AB) AGED BRASS LAMP:LMR16 - LED - 6W -F	01

PLANTING NOTES

1. THE CONTRACTOR SHALL LOCATE AND VERIFY THE EXISTENCE OF ALL UTILITIES PRIOR TO STARTING WORK.

2. THE PLANT MATERIAL LOCATIONS ARE DIAGRAMMATIC AND SUBJECT TO CHANGE IN THE FIELD AS DIRECTED BY THE LANDSCAPE ARCHITECT.

3. ALL PLANT MATERIAL SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE CURRENT AMERICAN STANDARD OF NURSERY STOCK, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.

4. THE PLANT COUNT IS FOR CONTRACTOR'S CONVENIENCE. IN CASE OF DISCREPANCY, THE PLAN SHALL GOVERN.

5. ALL TREES TO BE STAKED PLUMB UNLESS OTHERWISE NOTED.

6. ALL PLANTED AREAS SHALL BE FREE FROM ROCKS AND DEBRIS GREATER THAN 2" IN DIAMETER.

7. PRIOR TO THE PLANTING OF ANY MATERIALS, COMPACTED SOILS SHALL BE TRANSFORMED TO A FRIABLE CONDITION. ON ENGINEERED SLOPES, ONLY AMENDED PLANTING HOLES NEED MEET THIS REQUIREMENT.

8. SOIL AMENDMENTS SHALL BE INCORPORATED ACCORDING TO RECOMMENDATIONS OF THE SOIL REPORT AND WHAT IS APPROPRIATE FOR THE PLANTS SELECTED.

9. FOR LANDSCAPE INSTALLATIONS, COMPOST AT A RATE OF A MINIMUM OF FOUR CUBIC YARDS PER 1,000 SQUARE FEET OF PERMEABLE AREA SHALL BE INCORPORATED TO A DEPTH OF SIX INCHES INTO THE SOIL SOILS WITH GREATER THAN 6% ORGANIC MATTER IN THE TOP 6 INCHES OF SOIL ARE EXEMPT FROM ADDING COMPOST AND TILLING.

10. A MINIMUM THREE INCH (3) LAYER OF MULCH SHALL BE APPLIED ON ALL EXPOSED SOIL SURFACES OF PLANTING AREAS EXCEPT IN TURF AREAS, CREEPING OR ROOTING GROUNDCOVERS, OR DIRECT SEEDING APPLICATIONS WHERE MULCH IS CONTRAINDICATED. TO PROVIDE HABITAT FOR BENEFICIAL INSECTS AND OTHER WILDLIFE, UP TO 5 % OF THE LANDSCAPE AREA MAY BE LEFT WITHOUT MULCH. DESIGNATED INSECT HABITAT MUST BE INCLUDED IN THE LANDSCAPE DESIGN PLAN AS SUCH.

11. STABILIZING MULCHING PRODUCTS SHALL BE USED ON SLOPES THAT MEET CURRENT ENGINEERING STANDARDS.

12. ORGANIC MULCH MATERIALS MADE FROM RECYCLED OR POST-CONSUMER SHALL TAKE PRECEDENCE OVER INORGANIC MATERIALS OR VIRGIN FOREST PRODUCTS UNLESS THE RECYCLED POST-CONSUMER ORGANIC PRODUCTS ARE NOT LOCALLY AVAILABLE. ORGANIC MULCHES ARE NOT REQUIRED WHERE PROHIBITED BY LOCAL FUEL MODIFICATION PLAN GUIDELINES OR OTHER APPLICABLE LOCAL ORDINANCES.

N

* NOTES (E) = EXISTING

SCALE 1/16" = 1'-0"

0 16 32

BID SET #1 - ADDENDUM 2

REVISIONS	BY

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KAREN@KAA.DESIGN

HIPPO HARVEST

2370 SHORE RD, HOLLISTER, CA

PHASE 1 LIGHTING & PLANTING PLAN

DATE	04-29-25
SCALE	1/16" = 1'-0"
DRAWN	AA-SL
JOB	BURG

L-1



IRRIGATION KEY/ DOMESTIC

———	IRRIGATION LATERAL LINE: 1 IN. PVC CLASS 200
— • — • —	IRRIGATION MAINLINE: 1 IN. PVC SCHEDULE 40
= = = = =	PIPE SLEEVE: PVC CLASS 200 TYPICAL PIPE SLEEVE FOR IRRIGATION PIPE. PIPE SLEEVE SIZE SHALL ALLOW FOR IRRIGATION PIPING AND THEIR RELATED COUPLINGS TO EASILY SLIDE THROUGH SLEEVING MATERIAL. EXTEND SLEEVES 18 INCHES BEYOND EDGES OF PAVING OR CONSTRUCTION.
	HUNTER ICZ-101-25-LF DRIP CONTROL ZONE KIT. 1" ICV GLOBE VALVE WITH 1" HY100 FILTER SYSTEM. PRESSURE REGULATION: 25PSI. FLOW RANGE: .5-15 GPM. 150
	HUNTER DRIPLINE HDL-06-12-CV HUNTER DRIPLINE W/ 0.9 GPH EMITTERS EVERY 12 IN. DRIPLINE LATERALS SPACED AT 12" APART. INSTALL WITH HUNTER PLD BARBED OR PLD-LOC FITTINGS. TREE RING IRRIGATION DRIPLINE W/ 0.9 DRIP EMITTERS PLACED EVERY 12 IN. INNER RING 12" FROM PLANT. OUTTER RING 30" FROM PLANT. PLACE TIE DOWN EVERY 4' IN LOAM AND 5' IN CLAY.
C	HUNTER HCC 12 TO 54 STATION OUTDOOR MODULAR CONTROLLER. WI-FI ENABLED W/ HYDRAWISE APP CONNECTION.
WS	HUNTER SOIL-CLIK SENSOR THE SOIL-CLIK PROBE USES PROVEN TECHNOLOGY TO MEASURE MOISTURE WITHIN THE ROOT ZONE. WHEN THE PROBE SENSES THAT THE SOIL HAS REACHED ITS DESIRED MOISTURE LEVEL, IT WILL SHUT DOWN IRRIGATION, PREVENTING WATER WASTE.
SS	HUNTER SOLAR-SYNC WSS-SEN SOLAR, RAIN FREEZE SENSOR WITH OUTDOOR INTERFACE, CONNECTS TO HUNTER PCC, PRO-C, AND I-CORE CONTROLLERS, INSTALL AS NOTED. INCLUDES 10 YEAR LITHIUM BATTERY AND RUBBER MODULE COVER, AND GUTTER MOUNT BRACKET. WIRELESS.
	CST FLOW SENSOR - FSI-T10-001 FLOW SENSOR FOR USE WITH ACC CONTROLLER, 1" SCHEDULE 40 SENSOR BODY, 24 VAC, 2 AMP.
	GATE VALVE - ISOLATION SHUT OFF VALVE
B	WILKINS 975 XL2 1" LEAD-FREE REDUCED PRESSURE BACKFLOW PREVENTER
MV	SUPERIOR BRASS VALVE 3100 1" MASTER VALVE

IRRIGATION NOTES

1. THE IRRIGATION SYSTEM IS TO BE INSTALLED IN CONFORMANCE WITH ALL LOCAL CODES.

2. THIS IRRIGATION DESIGN IS DIAGRAMMATIC IN NATURE AND DOES NOT REPRESENT AN EXACT LAYOUT. THE CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS IN HEAD, VALVE, AND PIPING LAYOUT. FOR GRAPHIC CLARITY, PIPING MAY BE SHOWN OUTSIDE OF PLANTING AREAS BUT SHOULD BE INSTALLED IN BEDS WHENEVER POSSIBLE.

3. REMOTE CONTROL VALVES SHALL BE INSTALLED FLUSH WITH FINISH GRADE AND SHOULD BE INSTALLED IN PLANTING AREAS ONLY. USE EXISTING VALVE BOXES WHEN POSSIBLE.

4. WHERE PIPE PASSES UNDER DRIVING SURFACES, AND WALKS PROVIDE PVC SLEEVES AS NOTED ON PLANS. CONTRACTOR TO USE EXISTING SLEEVING WHEN POSSIBLE AND IS TO LOCATE ON SITE.

5. CONTRACTOR TO CONFIRM THE LOCATION OF ALL EXISTING UTILITIES AND UNDERGROUND STRUCTURES PRIOR TO EXCAVATION OF TRENCHES. CONTRACTOR TO REPAIR ANY DAMAGES CAUSED BY, OR DURING THE PERFORMANCE OF HIS WORK AT NO EXTRA COST TO THE OWNER.

6. A DIAGRAM OF THE IRRIGATION PLAN SHOWING HYDROZONES SHALL BE KEPT WITH THE IRRIGATION CONTROLLER FOR SUBSEQUENT MANAGEMENT PURPOSES.

7. AN IRRIGATION AUDIT REPORT SHALL BE COMPLETED BY A CERTIFIED IRRIGATION AUDITOR AT THE TIME OF FINAL INSPECTION

HYDROZONES

1	930 SF LOW WATER DRIP
2	240 SF LOW WATER DRIP
3	1040 SF LOW WATER DRIP
4	680 SF LOW WATER DRIP
5	360 SF LOW WATER DRIP
6	975 SF LOW WATER DRIP
7	1045 SF LOW WATER DRIP

TOTAL IRRIGATED AREA 8970 SF

COLOR INDICATES THE IRRIGATED AREA

HYDROZONE NUMBER (VALVE)

1 — 100 SF LOW WATER DRIP

WATER USE (LOW, MODERATE OR HIGH)

(E) 96'X36' HOPPHOUSES

I have complied with the criteria of the Water CONSERVATION IN LANDSCAPING ORDINANCE AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN the landscape & irrigation design plan.

Kaye Aitken

N

* NOTES (E) = EXISTING

SCALE 1/16" = 1'-0"

0 16 32

BID SET #1 - ADDENDUM 2

REVISIONS	BY

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HIPPO HARVEST
2370 SHORE RD, HOLLISTER, CA
PHASE 1 IRRIGATION PLAN

Kaye Aitken

DATE 04-29-25
SCALE 1/16" = 1'-0"
DRAWN AA-SL
JOB BURG

L-2

Water Efficient Landscape Worksheet:

Reference Evapotranspiration (Eto)	45.1	Hollister, CA	Project Name	HIPPO HARVEST	Address	2370 Shore Rd

Hydrozone # / Plant Description	Irrigation Method	Plant Factor (PF)	Irrigation Efficiency (IE)	ETAF (PF/IE)	Landscape Area (sq. ft)	ETAF x Area	ETWU
REGULAR LANDSCAPE AREAS							
1.) Low Water Use/ Shrubs	Drip	0.3	0.81	0.37037037	930.0	344.4	9,631.4
2.) Low Water Use/ Trees	Drip	0.3	0.81	0.37037037	240.0	88.9	2,485.5
3.) Low Water Use/ Shrubs	Drip	0.3	0.81	0.37037037	1,040.0	385.2	10,770.5
4.) Low Water Use/ Shrubs	Drip	0.3	0.81	0.37037037	680.0	251.9	7,042.3
5.) Low Water Use/ Trees	Drip	0.3	0.81	0.37037037	360.0	133.3	3,728.3
6.) Low Water Use/ Shrubs	Drip	0.3	0.81	0.37037037	975.0	361.1	10,097.4
7.) Low Water Use/ Shrubs	Drip	0.3	0.81	0.37037037	1,045.0	387.0	10,822.3
				Totals	5,270.0	1,951.9	54,577.7
SPECIAL LANDSCAPE AREAS							
None	None	None		None	None	Nonce	None
				Totals	0	0	0.0
ETAF CALCULATIONS							
						ETWU TOTAL	54,577.7
Regular Landscape Areas						**MAWA**	81,047.9
Total ETAF x Area	1,951.9						
Total Area	5,270.0						
Average ETAF	**0.37**						

Average ETAF for Regular Landscape Areas must be .55 or below for residential areas, and .45 or below for non residential areas.

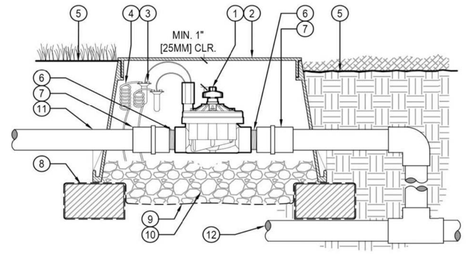
SUB-SURF

WALK, P
OTHER S

6 PLAN

LEGEND

1. HUNTER REMOTE CONTROL VALVE (ICV) WITH FLOW CONTROL
2. IRRIGATION VALVE BOX: HEAT STAMP LID WITH 'RCV' IN 2" LETTERS
3. WATERPROOF CONNECTORS (2)
4. 18"-24" COILED WIRE TO CONTROLLER
5. FINISH GRADE AT ADJACENT SURFACE (TURF OR MULCH)
6. SCH. 80 CLOSE NIPPLE, SIZE PER RCV
7. PVC SLIP X FPT ADAPTOR
8. BRICK SUPPORTS (4)
9. FILTER FABRIC - WRAP TWICE AROUND BRICK SUPPORTS
10. 3/4" WASHED GRAVEL - 4" MIN. DEPTH
11. IRRIGATION LATERAL
12. MAINLINE AND FITTINGS

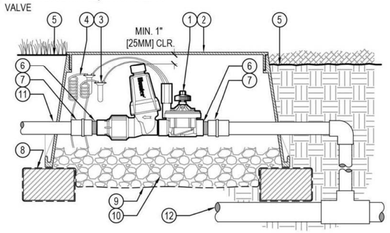


IN-LINE VALVE (ICV-151G)

Hunter V.ICV.05 NO SCALE

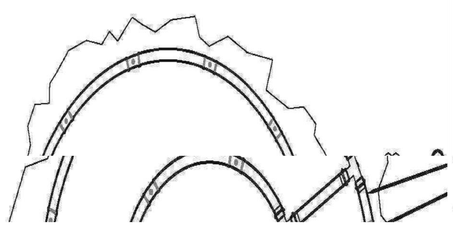
LEGEND

1. HUNTER REMOTE CONTROL VALVE (ICZ) WITH FILTER REGULATOR
2. IRRIGATION VALVE BOX: HEAT STAMP LID WITH 'RCV' IN 2" LETTERS
3. WATERPROOF CONNECTORS (2)
4. 18"-24" COILED WIRE TO CONTROLLER
5. FINISH GRADE AT ADJACENT SURFACE (TURF OR MULCH)
6. SCH. 80 CLOSE NIPPLE, MATCH SIZE TO VALVE
7. PVC SLIP X FPT ADAPTOR
8. BRICK SUPPORTS (4)
9. FILTER FABRIC - WRAP TWICE AROUND BRICK SUPPORTS
10. 3/4" WASHED GRAVEL - 4" MIN. DEPTH
11. IRRIGATION LATERAL
12. MAINLINE LATERAL AND FITTINGS



DRIP CONTROL ZONE KIT (ICZ-101-LF)

Hunter V.ICZ.01 NO SCALE



EGEND:

1. HUNTER DRIPLINE (HDL) PER PLAN
2. TREE (SEE PLANTING PLAN)
3. PLD OR PLD-LOC FITTING TYP.
4. PVC TO DRIP LINE TUBING CONNECTION (PLD OR PLD-LOC FITTINGS) TYP.
5. PVC LATERAL LINE

BID SET #1 - ADDENDUM 2

REVISIONS	BY

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HIPPO HARVEST
2370 SHORE RD, HOLLISTER, CA

IRRIGATION DETAILS

DATE	04-29-25
SCALE	
DRAWN	IN
JOB	BURG

L-3

GERMINATION ROOM AIR HANDLER, FAN COIL & HEAT PUMP SCHEDULE

TAG	LOCATION	SERVICE	TYPE	QUAN	BASIS OF DESIGN		RATED (NOMINAL) CAPACITY		EFFICIENCY (DUCTED)					AIRFLOW HIGH - MED - LOW	NOTES & ACCESSORIES	STRUCTURAL	ELECTRICAL				
					MFG	MODEL	COOLING	HEATING	SEER	EER	IEER	HSPF	COP			WEIGHT	V/PH/HZ	NRA	MCA	MCCB	MOP
HP 1	NORTH EXTERIOR BUILDING	ASSOCIATED FAN COILS	MULTI JOINT HEAT PUMP	3	SAMSUNG	FJM SERIES, 4 PORT AJ036DXJ4CG/AA	32,000 BTU/HR	36,000 BTU/HR	19.0	11.7	-	8.6	-	2,613 CFM	1, 2, 3, 4 & 5	158.7 LBS	208/1/60 230/1/60	11.4 A	26.9 A	30 A	-
FC 1A / 1B / 3A / 3B	ABOVE GERM ROOMS	GERM ROOMS	HORIZONTAL FAN COIL UNIT	6	SAMSUNG	AC018DNLDCG/AA	17,500 BTU/HR	20,000 BTU/HR	-	-	-	-	-	353-459-601 CFM	1, 2, 3, 4, 5, 6, 7, 8 & 9	49.6 LBS	208/1/60 230/1/60	*1.06 A	-	-	-

NOTES & ACCESSORIES
1. HEAT PUMPS & FAN COILS & NECESSARY ACCESSORIES (FOR COMPLETE FUNCTIONALITY) SHALL BE INSTALLED PER MANUFACTURERS SPECIFICATIONS
2. INCLUDE REFRIGERANT LINE LENGTHS & SIZES PER SHEET M3.0; CONTRACTOR TO ATTAIN SHOP DRAWINGS (PIPING DIAGRAM) FROM AIR TREATMENT CORP (JARED KOBOBEL) PRIOR TO PURCHASE & INSTALL
3. INCLUDE POWER AND WIRING PER SHEET M3.0; CONTRACTOR TO ATTAIN SHOP DRAWINGS (WIRING DIAGRAM) FROM AIR TREATMENT CORP (JARED KOBOBEL) PRIOR TO PURCHASE & INSTALL
4. INCLUDE Y-JOINTS FOR EACH REFRIGERANT PIPING BRANCH
5. INCLUDE AND CHARGE SYSTEM WITH REFRIGERANT TYPE R-32
6. INCLUDE ISOLATION VALVES AT REFRIGERANT CONNECTION
7. INCLUDE PROGRAMMABLE THERMOSTAT
8. INCLUDE CONDENSATE PIPE TO APPROVED LOCATION; SEE PLUMBING DRAWINGS
9. INCLUDE FILTER BOX W/ MERV 13 FILTER

*HEAT PUMP SHALL POWER INDOOR UNIT VIA 14 AWG X 3 POWER WIRE

GERMINATION ROOM HUMIDIFIER SCHEDULE

TAG	LOCATION	SERVICE	TYPE	QUAN	BASIS OF DESIGN		PERFORMANCE			NOTES & ACCESSORIES	STRUCTURAL	ELECTRICAL			
					MFG	MODEL	STEAM CAPACITY		SET-POINT RANGE		WEIGHT	V/PH/HZ	POWER		
HD 1A / 1B / 2A / 3B	INSIDE GERM ROOMS	GERM ROOMS	DUCTLESS STEAM	6	APRILAIRE	866	20.5 GPD	165 PPD	10%-90% RH	1 & 2	27 LBS	208/1/60	11.5 A	2.4 KW	

NOTES & ACCESSORIES
1. DEHUMIDIFIER & NECESSARY ACCESSORIES (FOR COMPLETE FUNCTIONALITY) SHALL BE INSTALLED PER MANUFACTURERS SPECIFICATIONS
2. INCLUDE MODEL 5558 MODULATING HUMIDISTAT

MPOE, I.T. 4-WAY & HEAT PUMP SCHEDULE

TAG	LOCATION	SERVICE	TYPE	QUAN	BASIS OF DESIGN		RATED (NOMINAL) CAPACITY		EFFICIENCY (DUCTED)					AIRFLOW HIGH - MED - LOW	NOTES & ACCESSORIES	STRUCTURAL	ELECTRICAL				
					MFG	MODEL	COOLING	HEATING	SEER	EER	IEER	HSPF	COP			WEIGHT	V/PH/HZ	NRA	MCA	MCCB	MOP
HP 3	NORTH EXTERIOR BUILDING	ASSOCIATED FAN COIL UNIT	HEAT PUMP	1	SAMSUNG	SPLIT SYSTEM AC036DXADCG/AA	36,000 BTU/HR	40,000 BTU/HR	19.5	11.0	-	9.2	-	2,684 CFM	1, 2, 3, 4 & 5	168.7 LBS	208/1/60 230/1/60	24.0 A	26.7 A	30 A	-
4W 3	MPOE, I.T.	MPOE, I.T.	IN CEILING 4-WAY	1	SAMSUNG	AC036DN4DCG/AA	36,000 BTU/HR	40,000 BTU/HR	-	-	-	-	-	671-911-1,208 CFM	1, 2, 3, 4, 5, 6, 7 & 8	62.4 LBS	208/1/60 230/1/60	*NOTE	-	-	-

NOTES & ACCESSORIES
1. HEAT PUMPS & FAN COILS & NECESSARY ACCESSORIES (FOR COMPLETE FUNCTIONALITY) SHALL BE INSTALLED PER MANUFACTURERS SPECIFICATIONS
2. INCLUDE REFRIGERANT LINE LENGTHS & SIZES PER SHEET M3.0; CONTRACTOR TO ATTAIN SHOP DRAWINGS (PIPING DIAGRAM) FROM AIR TREATMENT CORP (JARED KOBOBEL) PRIOR TO PURCHASE & INSTALL
3. INCLUDE POWER AND WIRING PER SHEET M3.0; CONTRACTOR TO ATTAIN SHOP DRAWINGS (WIRING DIAGRAM) FROM AIR TREATMENT CORP (JARED KOBOBEL) PRIOR TO PURCHASE & INSTALL
4. INCLUDE Y-JOINTS FOR EACH REFRIGERANT PIPING BRANCH
5. INCLUDE AND CHARGE SYSTEM WITH REFRIGERANT TYPE R-32
6. INCLUDE ISOLATION VALVES AT REFRIGERANT CONNECTION
7. INCLUDE PROGRAMMABLE THERMOSTAT
8. INCLUDE CONDENSATE PIPE TO APPROVED LOCATION; SEE PLUMBING DRAWINGS

*HEAT PUMP SHALL POWER INDOOR UNIT VIA 14 AWG X 3 POWER WIRE

OFFICE & WORKSHOP 4-WAY UNIT & DVM HEAT PUMP SCHEDULE

TAG	LOCATION	SERVICE	TYPE	QUAN	BASIS OF DESIGN		RATED (NOMINAL) CAPACITY		EFFICIENCY					AIRFLOW HIGH - MED - LOW	NOTES & ACCESSORIES	STRUCTURAL	ELECTRICAL				
					MFG	MODEL	COOLING	HEATING	SEER	EER	IEER	HSPF	COP			WEIGHT	V/PH/HZ	NRA	MCA	MCCB	MOP
HP 2	NORTH EXTERIOR BUILDING	ASSOCIATED 4-WAY UNITS	DVM S2 SERIES HEAT PUMP	1	SAMSUNG	DVM S2 AM072BXVGJH/AA	69,000 BTU/HR	77,000 BTU/HR	-	11.5	23.0	-	3.80	5,580 CFM	1, 2, 3, 4 & 5	401.2 LBS	460/3/60	-	15 A	20 A	-
4W 2	WORKSHOP A & LAB A	WORKSHOP A & LAB A	IN CEILING 4-WAY	3	SAMSUNG	AM024BN4PCH/AA	24,000 BTU/HR	27,000 BTU/HR	-	-	-	-	-	618-706-777 CFM	1, 2, 3, 4, 5, 6, 7 & 8	53.6 LBS	208/1/60 230/1/60	0.35 A	0.58 A	-	15 A
HP 4	ABOVE OFFICE CEILING	ASSOCIATED FAN COIL UNITS	DVM S2 SERIES HEAT PUMP	1	SAMSUNG	DVM S2 AM168BXVGJH/AA	160,000 BTU/HR	180,000 BTU/HR	-	11.1	23.3	-	3.65	10,665 CFM	1, 2, 3, 4 & 5	661.4 LBS	460/3/60	-	29.0 A	35 A	-
4W 3 / 4	LOCK/DECON A&B LOBBY/HALL OFFICE	LOCKERS LOBBY OFFICE	IN CEILING 4-WAY	3	SAMSUNG	AM036BN4PCH/AA	36,000 BTU/HR	40,000 BTU/HR	-	-	-	-	-	801-1,130-1,342 CFM	1, 2, 3, 4, 5, 6, 7 & 8	61.3 LBS	208/1/60 230/1/60	0.90 A	1.39 A	-	15 A
4W 2	KITCHENETTE	KITCHENETTE	IN CEILING 4-WAY	1	SAMSUNG	AM048BN4PCH/AA	36,000 BTU/HR	40,000 BTU/HR	-	-	-	-	-	801-1,130-1,342 CFM	1, 2, 3, 4, 5, 6, 7 & 8	61.3 LBS	208/1/60 230/1/60	0.95 A	1.45 A	-	15 A
4W 5	CONFERENCE	CONFERENCE	IN CEILING 4-WAY	1	SAMSUNG	AM018BN4PCH/AA	18,000 BTU/HR	20,000 BTU/HR	-	-	-	-	-	618-671-742 CFM	1, 2, 3, 4, 5, 6, 7 & 8	53.6 LBS	208/1/60 230/1/60	0.32 A	0.51 A	-	15 A

NOTES & ACCESSORIES
1. HEAT PUMPS & FAN COILS & NECESSARY ACCESSORIES (FOR COMPLETE FUNCTIONALITY) SHALL BE INSTALLED PER MANUFACTURERS SPECIFICATIONS
2. INCLUDE REFRIGERANT LINE LENGTHS & SIZES PER SHEET M3.0; CONTRACTOR TO ATTAIN SHOP DRAWINGS (PIPING DIAGRAM) FROM AIR TREATMENT CORP (JARED KOBOBEL) PRIOR TO PURCHASE & INSTALL
3. INCLUDE POWER AND WIRING PER SHEET M3.0; CONTRACTOR TO ATTAIN SHOP DRAWINGS (WIRING DIAGRAM) FROM AIR TREATMENT CORP (JARED KOBOBEL) PRIOR TO PURCHASE & INSTALL
4. INCLUDE Y-JOINTS FOR EACH REFRIGERANT PIPING BRANCH
5. INCLUDE AND CHARGE SYSTEM WITH REFRIGERANT TYPE R-410A
6. INCLUDE ISOLATION VALVES AT REFRIGERANT CONNECTION
7. INCLUDE PROGRAMMABLE THERMOSTAT
8. INCLUDE CONDENSATE PIPE TO APPROVED LOCATION; SEE PLUMBING DRAWINGS

PRODUCTION & WAREHOUSE HIGH STATIC FCU'S & HEAT PUMP SCHEDULE

TAG	LOCATION	SERVICE	TYPE	QUAN	BASIS OF DESIGN		RATED (NOMINAL) CAPACITY		EFFICIENCY					AIRFLOW HIGH - MED - LOW	NOTES & ACCESSORIES	STRUCTURAL	ELECTRICAL				
					MFG	MODEL	COOLING	HEATING	SEER	EER	IEER	HSPF	COP			WEIGHT	V/PH/HZ	NRA	MCA	MCCB	MOP
HP 5-6	NORTH EXT BLDG ABOVE MIXING	ASSOCIATED HIGH STATIC FCU	DVM S2 SERIES HEAT PUMP	2	SAMSUNG	DVM S2 AM144BXVGJH/AA	138,000 BTU/HR	154,000	-	12.1	24.4	-	3.68	10,171 CFM	1, 2, 3, 4 & 5	612.9 LBS	460/3/60	-	26.2 A	35 A	-
FC 5.1-5.2 / 6.1-6.2	PRODUCTION & WAREHOUSE	PRODUCTION & WAREHOUSE	HIGH STATIC FAN COIL UNITS	4	SAMSUNG	AM072FNHDCH/AA	76,800 BTU/HR	85,200 BTU/HR	-	-	-	-	-	1,660-1836-2048 CFM	1, 2, 3, 4, 5, 6, 7, 8 & 9	196 LBS	208/1/60 230/1/60	3.8 A	4.8 A	-	15 A

NOTES & ACCESSORIES
1. HEAT PUMPS & FAN COILS & NECESSARY ACCESSORIES (FOR COMPLETE FUNCTIONALITY) SHALL BE INSTALLED PER MANUFACTURERS SPECIFICATIONS
2. INCLUDE REFRIGERANT LINE LENGTHS & SIZES PER SHEET M3.0; CONTRACTOR TO ATTAIN SHOP DRAWINGS (PIPING DIAGRAM) FROM AIR TREATMENT CORP (JARED KOBOBEL) PRIOR TO PURCHASE & INSTALL
3. INCLUDE POWER AND WIRING PER SHEET M3.0; CONTRACTOR TO ATTAIN SHOP DRAWINGS (WIRING DIAGRAM) FROM AIR TREATMENT CORP (JARED KOBOBEL) PRIOR TO PURCHASE & INSTALL
4. INCLUDE Y-JOINTS FOR EACH REFRIGERANT PIPING BRANCH
5. INCLUDE AND CHARGE SYSTEM WITH REFRIGERANT TYPE R-410A
6. INCLUDE ISOLATION VALVES AT REFRIGERANT CONNECTION
7. INCLUDE PROGRAMMABLE THERMOSTAT
8. INCLUDE CONDENSATE PIPE TO APPROVED LOCATION; SEE PLUMBING DRAWINGS
9. INCLUDE FILTER BOX W/ MERV 13 FILTER & RETURN GRILLE W/ OBD

ADD ALTERNATE #1
SHALL EVALUATE EVAPORATIVE COOLING SUBSTITUTE, ONE LARGE SYSTEM FOR BOTH PRODUCTION AND WAREHOUSE

VENTILATION & LAB FAN SCHEDULE

TAG	LOCATION	SERVICE	TYPE	QUAN	BASIS OF DESIGN		PERFORMANCE				NOTES & ACCESSORIES	STRUCTURAL	MOTOR INFORMATION				
					MFG	MODEL (SIZE)	AIRFLOW RATE	STATIC PRESSURE	SPEED	POWER INPUT		WEIGHT	POWER	RPM	V/PH/HZ	ENCL	FLA (RLA)
VF 1	HANGING ABOVE LAB A	BUILDING VENTILATION	CENTRIFUGAL SQUARE INLINE DIRECT DRIVE EC VARI-FLOW MOTOR	1	COOK	210SQN17D(VF2)	4,200 CFM	1.20 IN WC	1,052 RPM	1.6 HP	1, 2, 3, 4, 5, 6 & 7	307 LBS	3 HP	1725	208/3/60	TEFC-PM	10.6 A
VEF 1	HANGING ABOVE CONFERENCE	BUILDING EXHAUST VENTILATION	CENTRIFUGAL SQUARE INLINE DIRECT DRIVE EC VARI-FLOW MOTOR	1	COOK	210SQN17D(VF2)	3,275 CFM	0.70 IN WC	809 RPM	0.732 HP	1, 2, 3, 4, 5 & 6	245 LBS	1 HP	1725	208/3/60	TEFC-EC	(3.2 A)
VF 2	HANGING ABOVE LOBBY	BUILDING VENTILATION	CENTRIFUGAL SQUARE INLINE DIRECT DRIVE EC VARI-FLOW MOTOR	1	COOK	1355QN17D(VF2)	1,620 CFM	1.00 IN WC	1,582 RPM	0.532 HP	1, 2, 3, 4, 5, 6 & 7	156 LBS	3/4 HP	1725	208/3/60	TEFC-PM	3.5 A
VEF 2	HANGING ABOVE PRODUCTION A	BUILDING EXHAUST VENTILATION	CENTRIFUGAL SQUARE INLINE DIRECT DRIVE EC VARI-FLOW MOTOR	1	COOK	1955QN17D(VF)	2,545 CFM	0.60 IN WC	800 RPM	0.485 HP	1, 2, 3, 4, 5 & 6	228 LBS	1 HP	1725	208/3/60	TEFC-EC	(3.2 A)
LF A-1B	HANGING ABOVE IN LAB A	LAB HOOD EXHAUST	CENTRIFUGAL SQUARE INLINE DIRECT DRIVE EC VARI-FLOW MOTOR	2	COOK	905QN17DL(VF)	170 CFM	0.20 IN WC	1,046 RPM	0.012 HP	1, 2, 3, 4, 5 & 6	52 LBS	1/20 HP	1725	115/1/60	OPEN-EC	-

NOTES & ACCESSORIES
1. FANS & NECESSARY ACCESSORIES (FOR COMPLETE FUNCTIONALITY) SHALL BE INSTALLED PER MANUFACTURERS SPECIFICATIONS
2. INCLUDE FAN MOUNTED SPEED CONTROL
3. INCLUDE DISCONNECT NEMA 1 PRE-WIRED
4. INCLUDE BACKDRAFT DAMPER
5. INCLUDE MOTOR CONTROL COVER
6. INCLUDE RUBBER ISOLATORS, SET OF 4
7. INCLUDE FILTER BOX W/ MERV 13 FILTER

SHEET INDEX

M0.0 - MECHANICAL SCHEDULES & SYMBOLS/ABBREVS
M0.1 - MECHANICAL SCHEDULES CONTINUED
M0.2 - MECHANICAL ENERGY LOADS SUMMARY
M0.3 - MECHANICAL NOTES & CALCULATIONS

M1.0 - MECHANICAL SITE PLAN
M22.0 - MECHANICAL ZONE AREA & SET-POINT PLAN
M2.0 - MECHANICAL FLOOR PLAN
M2.1 - MECHANICAL ROOF PLAN
M2.2 - MECHANICAL GREENHOUSE PLAN & EQUIPMENT SCHEDULES

M3.0 - HEAT PUMP SYSTEM PIPING PLAN
M3.1 - HEAT PUMP SYSTEM PIPING PLAN

M4.0 - MECHANICAL DETAILS

CODE REQUIREMENTS

ALL WORK SHALL COMPLY W/ ALL APPLICABLE STATE & LOCAL CODES AND/OR AUTHORITY HAVING JURISDICTION INCLUDING THE BELOW:

2022 CAL BUILDING CODE
2022 CAL ENERGY CODE
2022 CAL GREEN BUILDING CODE
2022 CAL ELECTRICAL CODE
2022 CAL FIRE CODE
2022 CAL MECHANICAL CODE
2022 CAL PLUMBING CODE

LOCATION & DETAIL SYMBOLS

LOCATION LETTER — DRAWING SHEET — LOCATION REFERENCE MARK

DETAIL NUMBER — DRAWING SHEET — DETAIL REFERENCE MARK

MECHANICAL SYMBOLS

- THERMOSTAT
- WIRELESS CONTROLLER
- SD — SMOKE DETECTOR
- TC — TIME CLOCK
- C — CONDENSATION (HUMIDITY) SENSOR
- M — MOTION SENSOR
- T — TEMPERATURE SENSOR
- CO — CARBON MONOXIDE SENSOR
- CO2 — CARBON DIOXIDE SENSOR
- ON/OFF SWITCH
- ACCESS DOOR
- FLEX DUCT
- ZONE DAMPER W/ ACTUATOR
- AIRFLOW DIRECTION ARROW
- DUCT: SUPPLY
- DUCT: RETURN
- DUCT: EXHAUST
- DUCT: INSULATED
- DUCT: 90° ELBOW
- DUCT: 90° ELBOW WITH TURNING VANES
- DUCT: 90° LONG RADIUS ELBOW
- DUCT: SQUARE TO ROUND TRANSITION
- DUCT: SQUARE TO SQUARE OR ROUND TO ROUND TRANSITION
- LOUVER
- LOUVER/DAMPER COMBO
- LOUVER/DAMPER COMBO (w/ ACTUATOR)
- FIRE/SMOKE DAMPER OR RADIATION DAMPER
- BALANCE DAMPER
- EXISTING TO BE DEMOLISHED

NOTE: NOT ALL SYMBOLS MAY BE USED

MECHANICAL ABBREVIATIONS

Ø	DIAMETER or PHASE
ABC	ABOVE CEILING
AC	AIR CONDITIONING
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
ARCH	ARCHITECT
BDD	COUNTER-BALANCED BACKDRAFT DAMPER
BF	BELOW FLOOR
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BTUH	BRITISH THERMAL UNITS PER HOUR
CC	COOLING COIL
CFF	CAP FOR FUTURE
CFM	CUBIC FEET PER MINUTE
CLG	CEILING or COOLING
CONT	CONTINUATION
DB	DRY BULB TEMPERATURE
DL	DOOR LOUVER
DN	DOWN
DTR	DUCT THRU ROOF
DWG	DRAWING
(E)	EXISTING
EA	EACH or EXHAUST AIR
EAD	EXHAUST AIR DAMPER
EDB	ENTERING DRY BULB TEMPERATURE
EF	EXHAUST FAN
EFF	EFFICIENCY
ELEC	ELECTRICAL
EQUIP	EQUIPMENT
ESP	EXTERNAL STATIC PRESSURE
EWB	ENTERING WET BULB TEMPERATURE
EWT	ENTERING WATER TEMPERATURE
FA	FROM ABOVE
FB	FROM BELOW
FC	FLEXIBLE CONNECTION
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FSD	FIRE/SMOKE DAMPER
FLA	FULL LOAD AMPS
FLR	FLOOR
FPM	FEET PER MINUTE
FS or FSD	FIRE/SMOKE DAMPER
FT	FEET
GA	GAUGE
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GSM	GALVANIZED SHEET METAL
HC	HEATING COIL
HP	HORSEPOWER
HR	HOUR
HT	HEIGHT
HTG	HEATING
HZ	HERTZ
IN. WC.	INCHES WATER COLUMN
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LDB	LEAVING DRY BULB TEMPERATURE
LRA	LOCKED ROTOR AMPS
LWB	LEAVING WET BULB TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MA	MIXED AIR
MAD	MIXED AIR DAMPER
MAX	MAXIMUM
MBH	THOUSAND BTU PER HOUR
MCA	MINIMUM CIRCUIT AMPACITY
MD	MANUAL VOLUME DAMPER
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
(N)	NEW
NC	NORMALLY CLOSED or NOISE CRITERIA
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAD	OUTSIDE AIR DAMPER
OC	ON CENTER
OH	OVERHEAD
PD	PRESSURE DROP
PH	PHASE
PLMB	PLUMBING
POC	POINT OF CONNECTION
PSI(G)	POUNDS PER SQUARE INCH (GAUGE)
QTY	QUANTITY
(R)	RELOCATED
RA	RETURN AIR
RAD	RETURN AIR DAMPER
RL	REFRIGERANT LIQUID PIPING
RLA	RUNNING LOAD AMPS
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
RS	REFRIGERANT SUCTION PIPING
SA	SUPPLY AIR
SF	SQUARE FEET
SIM	SIMILAR
SM	SHEET METAL
SP	STATIC PRESSURE
SPEC	SPECIFICATIONS
SS	STAINLESS STEEL
STD	STANDARD
STRUC	STRUCTURAL
TA	TO ABOVE
TB	TO BELOW
TCP	TEMPERATURE CONTROL PANEL
TEMP	TEMPERATURE
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UCD	UNDERCUT DOOR
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
VFD	VARIABLE FREQUENCY DRIVE
W	WATTS
WB	WET BULB
WT	WEIGHT

NOTE: NOT ALL ABBREVIATIONS MAY BE USED

SEED
SANTA CRUZ INC
SUSTAINABLE ENVIRONMENT ENGINEERED DESIGN

130 Pearl Alley
Santa Cruz, CA 95060
Contact: Scott Shelton
scottshelton@seedscca.com
www.seedscca.com

REGISTERED PROFESSIONAL ENGINEER — MECHANICAL — PRELIMINARY — NOT FOR CONSTRUCTION — ISSUED FOR PERMITTING — STATE OF CALIFORNIA

PROJECT INFORMATION	
CLIENT:	HIPPO HARVEST
NUMBER:	250008
START DATE:	2.20.2025
DRAWN BY:	STS
CHECKED BY:	STS

NEW CONSTRUCTION FOR:

HIPPO HARVEST I

2370 SHORE ROAD
HOLLISTER, CA 95023

DRAWINGS & REVISIONS		
NO	DESCRIPTION	DATE
-	MECHANICAL BID SET	6.5.2025
-	PLUMBING BID SET	6.6.2025
-	MECHANICAL BID SET REV 1	6.24.2025
-	MECH-PLUMB BID SET REV 2	6.27.2025
-	-	-
-	-	-
-	-	-
-	-	-

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MECHANICAL SCHEDULES & SYMBOLS/ABBREVS

SHEET: M0.0

BID SET #1 - ADDENDUM 2

WALK-IN FREEZER COOLING EQUIPMENT SCHEDULE

TAG	LOCATION	SERVICE	TYPE	QUAN	BASIS OF DESIGN		PERFORMANCE		NOTES & ACCESSORIES	STRUCTURAL	ELECTRICAL		
					MODEL LINE	MODEL NUMBER	CAPACITY			WEIGHT	V/PH/HZ	RLA	POWER
CD 1 / 2-1/2 in 2-1/2 OD	ROOF TOP	EVAPORATOR	CONDENSER	4	QV-SERIES	RBDV025M4AGA	-	-	1 & 2	1,940 LBS	460/3/60	35.9 A	25 HP
EC 1 / 1-3/8 in 1-3/8 OD	HANGING INSIDE WALK-IN-COOLER	DISTRIBUTION A WALK-IN-COOLER	EVAPORATOR	4	HEAVY DUTY	RAHGA0G4FDA	6.5 TONS	78,053 BTU/HR	1, 2 & 3	470 LBS	460/1/60	3.1 A	-
EC 2 / 2-1/2 in 2-1/2 OD	HANGING INSIDE WALK-IN-COOLER	PACKHOUSE A1 WALK-IN-COOLER	EVAPORATOR	4	HEAVY DUTY	RAHGA07GFDA	7.4 TONS	88,586 BTU/HR	1, 2 & 3	730 LBS	460/1/60	6.2 A	-

NOTES & ACCESSORIES
1. CONDENSERS & EVAPORATORS & NECESSARY ACCESSORIES (FOR COMPLETE FUNCTIONALITY) SHALL BE INSTALLED PER MANUFACTURERS SPECIFICATIONS
1. INCLUDE REFRIGERANT PIPING, INSULATION, AND CONTROL & POWER WIRING
2. INCLUDE CONDENSATE PIPE TO APPROVED TERMINATION LOCATION
3. INCLUDE AND CHARGE SYSTEM WITH REFRIGERANT TYPE R-454C

AIR CURTAIN SCHEDULE

TAG	LOCATION	SERVICE	TYPE	QUAN	BASIS OF DESIGN			PERFORMANCE			NOTES & ACCESSORIES	STRUCTURAL	ELECTRICAL		
					MFG	MODEL	LENGTH	MAX VELOCITY	AVG VELOCITY	VOLUME		WEIGHT	V/PH/HZ	AMPS	POWER
AC 1A-1B-1C	ABOVE MULTIPLE DOORS	ENTRY DOORS TO CLEAN ROOMS	STANDARD VELOCITY NO HEAT	3	MARS	STD248-1U*-OB	4FT	4,247 FPM	1,730 FPM	1,442 CFM	1, 2, 3, 4, 5 & 6	70 LBS	208/1/60	2.5 A	549 W
AC 2A-2B-2C	ABOVE MULTIPLE DOORS	ENTRY DOORS TO CLEAN ROOMS	STANDARD VELOCITY NO HEAT	3	MARS	STD284-2U*-OB	7FT	4,865 FPM	1,945 FPM	2,836 CFM	1, 2, 3, 4, 5 & 6	125 LBS	208/1/60	5.0 A	1,012 W
AC 3A-3B	ABOVE MULTIPLE DOORS	ENTRY DOORS TO CLEAN ROOMS	STANDARD VELOCITY NO HEAT	2	MARS	STD2108-3U*-OB	9FT	5,960 FPM	2,206 FPM	4,137 CFM	1, 2, 3, 4, 5 & 6	175 LBS	208/1/60	5.0 A	1,500 W
AC 4	ABOVE MULTIPLE DOORS	ENTRY DOORS TO CLEAN ROOMS	STANDARD VELOCITY NO HEAT	1	MARS	STD2144-3U*-OB	12FT	4,247 FPM	1,730 FPM	4,326 CFM	1, 2, 3, 4, 5 & 6	200 LBS	208/1/60	7.5 A	1,647 W

NOTES & ACCESSORIES
1. AIR CURTAIN & NECESSARY ACCESSORIES (FOR COMPLETE FUNCTIONALITY) SHALL BE INSTALLED PER MANUFACTURERS SPECIFICATIONS
2. INCLUDE DOOR LIMIT SWITCH
3. INCLUDE CONTROLLERS
4. INCLUDE BRACKETS
5. INCLUDE FILTERS
6. INCLUDE STAINLESS STEEL HOUSING

GRILLE & VENT SCHEDULE

TAG	LOCATION	SERVICE	TYPE	QUAN	BASIS OF DESIGN		PERFORMANCE		SIZE		NOTES & ACCESSORIES	STRUCTURAL
					MFG	MODEL	MAX FLOW	MAX FRICTION	WxH (DIA)	DEPTH		WEIGHT
SG-1	SEE FLOOR PLANS	SUPPLY AIR	ALUMINUM GRILLE	34	KRUEGER	5880	SEE FLOOR PLANS	0.05 IN WG	SEE FLOORPLANS	1-3/4" 3-1/4" W/ OBD	1, 2 & 3	MINIMAL LBS.
RG-1 EG-1	SEE FLOOR PLANS	RETURN AIR EXHAUST AIR	ALUMINUM EGG-CRATE	10 24	KRUEGER	EGCS	SEE FLOOR PLANS	0.05 IN WG	SEE FLOORPLANS	1-1/16" 2-9/16" W/ OBD	1, 2 & 3	MINIMAL LBS.

NOTES & ACCESSORIES
1. GRILLES, EGG-CRATES & NECESSARY ACCESSORIES (FOR COMPLETE FUNCTIONALITY) SHALL BE INSTALLED PER MANUFACTURERS SPECIFICATIONS
2. INCLUDE OPPOSED BLADE DAMPER (WHERE SHOWN ON FLOOR PLANS)
3. INCLUDE SQUARE TO ROUND ADAPTER (WHERE SHOWN ON FLOOR PLANS)

LOUVER SCHEDULE

TAG	LOCATION	SERVICE	TYPE	QUAN	BASIS OF DESIGN		PERFORMANCE		SIZE		NOTES & ACCESSORIES	STRUCTURAL
					MFG	MODEL	MAX FLOW	MAX FRICTION	WxH (DIA)	DEPTH		WEIGHT
LV-1	EXTERIOR BUILDING	INTAKE FOR VENTILATION AIR	ALUMINUM 4" DEEP W/ 45° DRAINABLE BLADE	1	POTORFF	EFD-445	4,180 CFM	0.05 IN WG	40"x54"	4 INCH	1, 2 & 3	< 400 LBS.
LV-2	EXTERIOR BUILDING	EXHAUST FOR VENTILATION AIR	ALUMINUM 4" DEEP W/ 45° DRAINABLE BLADE	1	POTORFF	EFD-445	2,545 CFM	0.05 IN WG	40"x40"	4 INCH	1, 2 & 3	< 400 LBS.
LV-3	EXTERIOR BUILDING	LAB HOOD EXHAUST	ALUMINUM 4" DEEP W/ 45° DRAINABLE BLADE	1	POTORFF	EFD-445	340 CFM	0.05 IN WG	12"x24"	4 INCH	1, 2 & 3	< 200 LBS.

NOTES & ACCESSORIES
1. LOUVERS & NECESSARY ACCESSORIES (FOR COMPLETE FUNCTIONALITY) SHALL BE INSTALLED PER MANUFACTURERS SPECIFICATIONS
2. INCLUDE SQUARE TO ROUND ADAPTER (WHERE SHOWN ON FLOOR PLANS)
3. INCLUDE BIRD & RODENT SCREEN

GRAVITY HOOD SCHEDULE

TAG	LOCATION	SERVICE	TYPE	QUAN	BASIS OF DESIGN		PERFORMANCE						NOTES & ACCESSORIES	STRUCTURAL
					MFG	MODEL	THROAT SIZE	HOOD SIZE	CURB CAP SIZE	HOOD HEIGHT	AIRFLOW	SP MAX		WEIGHT
GIH 1	ROOFTOP	INTAKE FOR VENTILATION AIR	ALUMINUM INTAKE HOOD GRAVITY VENTILATOR	1	COOK	28X36XGI	16"x16"	28"x36"	21.5"x21.5"	11"	1,620 CFM	DUCTED 0.056 IN WG	1, 2, 3 & 4	114 LBS SHIPPING
GEH 1	ROOFTOP	INTAKE FOR VENTILATION AIR	ALUMINUM EXHAUST HOOD GRAVITY VENTILATOR	1	COOK	28X36XGR	18"x18"	28"x36"	23.5"x23.5"	11"	3,275 CFM	DUCTED 0.061 IN WG	1, 2, 3 & 4	115 LBS SHIPPING

NOTES & ACCESSORIES
1. GRAVITY INTAKE VENTILATOR & NECESSARY ACCESSORIES (FOR COMPLETE FUNCTIONALITY) SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS
2. INCLUDE GRAVITY DAMPER
3. INCLUDE ROOF CURB W/ HINGED TRAY
4. INCLUDE BIRD & RODENT SCREEN

SEED
SANTA CRUZ INC
SUSTAINABLE ENVIRONMENT ENGINEERED DESIGN

130 Pearl Alley
Santa Cruz, CA 95060
Contact: Scott Shelton
scottshelton@seedscca.com
www.seedscca.com

REGISTERED PROFESSIONAL ENGINEER MECHANICAL TERRANCE SHELTON STATE OF CALIFORNIA
PRELIMINARY ISSUE FOR COORDINATION NOT FOR BIDDING

PROJECT INFORMATION	
CLIENT:	HIPPO HARVEST
NUMBER:	250008
START DATE:	2.20.2025
DRAWN BY:	STS
CHECKED BY:	STS

NEW CONSTRUCTION FOR:

HIPPO HARVEST HOLLISTER

2370 SHORE ROAD
HOLLISTER, CA 95023

DRAWINGS & REVISIONS		
NO	DESCRIPTION	DATE
-	MECHANICAL BID SET	6.5.2025
-	PLUMBING BID SET	6.6.2025
-	MECHANICAL BID SET REV1	6.24.2025
-	MECH-PLUMB BID SET REV2	6.27.2025
-	-	-
-	-	-
-	-	-
-	-	-

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MECHANICAL
SCHEDULES CONTINUED

SHEET: MO.1

BID SET #1 - ADDENDUM 2

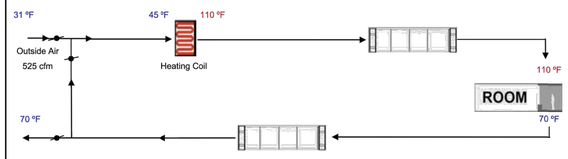
HEAT PUMP # I (GERMINATION ROOMS)

HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY

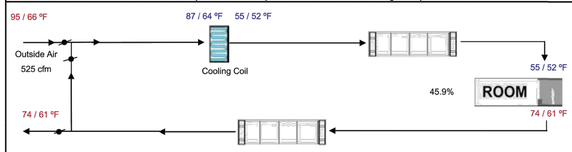
Project Name	Hippo Harvest Main Building
Date	6/1/2025
System Name	Heat Pump #2 (Workshop A + Lab A)
Floor Area	1,651

ENGINEERING CHECKS		SYSTEM LOAD	COIL COOLING PEAK			COIL HTG. PEAK	
			CFM	Sensible	Latent	CFM	Sensible
Number of Systems		Total Room Loads	1,938	39,364	3,610	561	23,968
Heating System		Return Vented Lighting		0			
Output per System		Return Air Ducts		0			0
Total Output (Btuh)		Return Fan		0			0
Output (Btuh/sqft)		Ventilation	525	11,786	-3,118	525	21,888
Cooling System		Supply Fan		0			0
Output per System		Supply Air Ducts		0			0
Total Output (Btuh)							
Total Output (Tons)							
Total Output (Btuh/sqft)							
Total Output (sqft/Ton)		TOTAL SYSTEM LOAD		51,150	492		45,855
Air System							
CFM per System		HVAC EQUIPMENT SELECTION					
Airflow (cfm)							
Airflow (cfm/sqft)							
Airflow (cfm/Ton)							
Outside Air (%)		Total Adjusted System Output (Adjusted for Peak Design conditions)					
Outside Air (cfm/sqft)							
Note: values above given at ARI conditions		TIME OF SYSTEM PEAK		Jul 3 PM			Jan 1 AM

HEATING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Heating Peak)



COOLING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Cooling Peak)

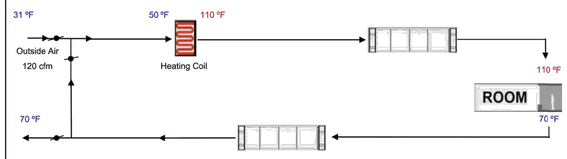


HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY

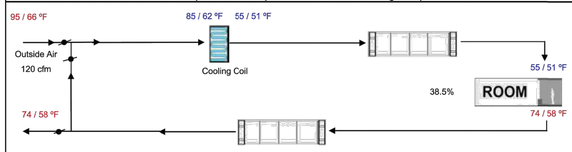
Project Name	Hippo Harvest Main Building
Date	6/1/2025
System Name	Heat Pump #3 (MPOE, I.T.)
Floor Area	473

ENGINEERING CHECKS		SYSTEM LOAD	COIL COOLING PEAK			COIL HTG. PEAK	
			CFM	Sensible	Latent	CFM	Sensible
Number of Systems		Total Room Loads	960	19,492	-76	181	7,753
Heating System		Return Vented Lighting		0			
Output per System		Return Air Ducts		0			0
Total Output (Btuh)		Return Fan		0			0
Output (Btuh/sqft)		Ventilation	120	2,694	63	120	5,003
Cooling System		Supply Fan		0			0
Output per System		Supply Air Ducts		0			0
Total Output (Btuh)							
Total Output (Tons)							
Total Output (Btuh/sqft)							
Total Output (sqft/Ton)		TOTAL SYSTEM LOAD		22,186	-13		12,756
Air System							
CFM per System		HVAC EQUIPMENT SELECTION					
Airflow (cfm)							
Airflow (cfm/sqft)							
Airflow (cfm/Ton)							
Outside Air (%)		Total Adjusted System Output (Adjusted for Peak Design conditions)					
Outside Air (cfm/sqft)							
Note: values above given at ARI conditions		TIME OF SYSTEM PEAK		Aug 3 PM			Jan 1 AM

HEATING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Heating Peak)



COOLING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Cooling Peak)

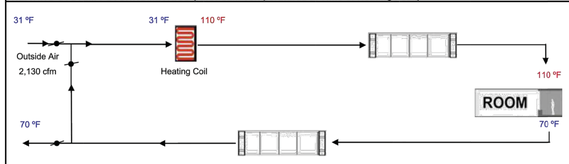


HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY

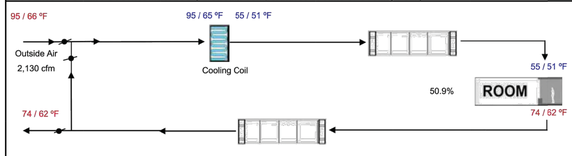
Project Name	Hippo Harvest Main Building
Date	6/1/2025
System Name	Heat Pump #4 Lockers/Decon + (Lobby + Hall + Office + Restrooms) + Conference + Kitchenette
Floor Area	3,261

ENGINEERING CHECKS		SYSTEM LOAD	COIL COOLING PEAK			COIL HTG. PEAK	
			CFM	Sensible	Latent	CFM	Sensible
Number of Systems		Total Room Loads	4,161	84,506	16,858	1,404	60,047
Heating System		Return Vented Lighting		0			
Output per System		Return Air Ducts		0			0
Total Output (Btuh)		Return Fan		0			0
Output (Btuh/sqft)		Ventilation	2,130	47,819	-22,008	2,130	88,807
Cooling System		Supply Fan		0			0
Output per System		Supply Air Ducts		0			0
Total Output (Btuh)							
Total Output (Tons)							
Total Output (Btuh/sqft)							
Total Output (sqft/Ton)		TOTAL SYSTEM LOAD		132,325	-5,150		148,854
Air System							
CFM per System		HVAC EQUIPMENT SELECTION					
Airflow (cfm)							
Airflow (cfm/sqft)							
Airflow (cfm/Ton)							
Outside Air (%)		Total Adjusted System Output (Adjusted for Peak Design conditions)					
Outside Air (cfm/sqft)							
Note: values above given at ARI conditions		TIME OF SYSTEM PEAK		Jul 3 PM			Jan 1 AM

HEATING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Heating Peak)



COOLING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Cooling Peak)

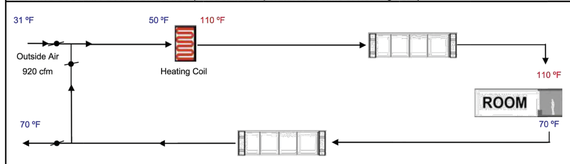


HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY

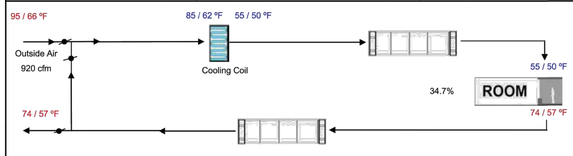
Project Name	Hippo Harvest Main Building
Date	6/1/2025
System Name	Heat Pump #5 (Production Area A)
Floor Area	3,655

ENGINEERING CHECKS		SYSTEM LOAD	COIL COOLING PEAK			COIL HTG. PEAK	
			CFM	Sensible	Latent	CFM	Sensible
Number of Systems		Total Room Loads	4,515	91,698	-4,570	1,604	68,575
Heating System		Return Vented Lighting		0			
Output per System		Return Air Ducts		0			0
Total Output (Btuh)		Return Fan		0			0
Output (Btuh/sqft)		Ventilation	920	20,646	3,494	920	38,343
Cooling System		Supply Fan		0			0
Output per System		Supply Air Ducts		0			0
Total Output (Btuh)							
Total Output (Tons)							
Total Output (Btuh/sqft)							
Total Output (sqft/Ton)		TOTAL SYSTEM LOAD		112,344	-1,076		106,917
Air System							
CFM per System		HVAC EQUIPMENT SELECTION					
Airflow (cfm)							
Airflow (cfm/sqft)							
Airflow (cfm/Ton)							
Outside Air (%)		Total Adjusted System Output (Adjusted for Peak Design conditions)					
Outside Air (cfm/sqft)							
Note: values above given at ARI conditions		TIME OF SYSTEM PEAK		Jul 3 PM			Jan 1 AM

HEATING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Heating Peak)



COOLING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Cooling Peak)

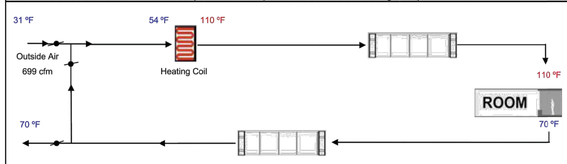


HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY

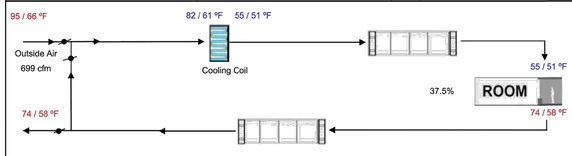
Project Name	Hippo Harvest Main Building
Date	6/1/2025
System Name	Heat Pump #6 (Warehouse A & Mixing)
Floor Area	3,479

ENGINEERING CHECKS		SYSTEM LOAD	COIL COOLING PEAK			COIL HTG. PEAK	
			CFM	Sensible	Latent	CFM	Sensible
Number of Systems		Total Room Loads	4,566	92,733	-1,453	1,643	70,252
Heating System		Return Vented Lighting		0			
Output per System		Return Air Ducts		0			0
Total Output (Btuh)		Return Fan		0			0
Output (Btuh/sqft)		Ventilation	699	15,691	968	699	29,140
Cooling System		Supply Fan		0			0
Output per System		Supply Air Ducts		0			0
Total Output (Btuh)							
Total Output (Tons)							
Total Output (Btuh/sqft)							
Total Output (sqft/Ton)		TOTAL SYSTEM LOAD		108,424	-485		99,391
Air System							
CFM per System		HVAC EQUIPMENT SELECTION					
Airflow (cfm)							
Airflow (cfm/sqft)							
Airflow (cfm/Ton)							
Outside Air (%)		Total Adjusted System Output (Adjusted for Peak Design conditions)					
Outside Air (cfm/sqft)							
Note: values above given at ARI conditions		TIME OF SYSTEM PEAK		Jul 3 PM			Jan 1 AM

HEATING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Heating Peak)



COOLING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Cooling Peak)



SEED
SANTA CRUZ INC
SUSTAINABLE ENVIRONMENT ENGINEERED DESIGN

130 Pearl Alley
Santa Cruz, CA 95060
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scottshelton@seedscca.com
www.seedscca.com

PRELIMINARY * ISSUE FOR COORDINATION * NOT FOR BIDDING
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

PROJECT INFORMATION	
CLIENT:	HIPPO HARVEST
NUMBER:	250008
START DATE:	2.20.2025
DRAWN BY:	STS
CHECKED BY:	STS

NEW CONSTRUCTION FOR:

HIPPO HARVEST HOLLISTER

2370 SHORE ROAD
HOLLISTER, CA 95023

DRAWINGS & REVISIONS		
NO	DESCRIPTION	DATE
-	MECHANICAL BID SET	6.5.2025
-	PLUMBING BID SET	6.6.2025
-	MECHANICAL BID SET REV.	6.24.2025
-	MECH-PLUMB BID SET REV.	6.27.2025
-	-	-
-	-	-
-	-	-
-	-	-

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MECHANICAL
ENERGY LOADS SUMMARY

SHEET: MO.2

BID SET #1 - ADDENDUM 2

MECHANICAL EXHAUST & VENTILATION CODE CALCULATIONS & NOTES

PROJECT IS HIPPO HARVEST
ADDRESS IS 2370 SHORE ROAD, HOLLISTER, CA 95023

2022 CALIFORNIA ENERGY CODE - TITLE 24 PART 6
TABLE 120.1-A - MINIMUM VENTILATION RATES

SPACES & LOCATIONS	GERMINATION CHAMBER A1	GERMINATION CHAMBER A2	PACKHOUSE A2	PACKHOUSE A1	DISTRIBUTION A	PRODUCTION AREA A	WAREHOUSE A	MIXING	WORKSHOP A	LAB A	MPOE, I.T.	ELECTRICAL	ENTRY	LOBBY	CORRIDOR	CONFERENCE	OFFICE	DECON A	LOCKERS	DECON B	KITCHENETTE	MENS WC	WOMENS WC	MOP1	MOP2
OCCUPANCY CATEGORY	GEN MFG	GEN MFG	GEN MFG	GEN MFG	GEN MFG	GEN MFG	GEN MFG	GEN MFG	GEN MFG	GEN MFG	GEN MFG	GEN MFG	OFFICE	OFFICE	OFFICE	OFFICE	OFFICE	OFFICE	OFFICE	OFFICE	BREAKROOM	OFFICE	OFFICE	OFFICE	OFFICE
AREA (SF)	1,708.0	2,955.0	1,630.0	3,967.0	3,487.0	3,655.0	2,796.0	683.0	1,027.0	540.0	278.0	280.0	128.0	277.0	430.0	319.0	464.0	198.0	188.0	170.0	684.0	256.0	243.0	32.0	52.0
EGRESS COUNT PER TABLE 1004.5 (OCC/SF)	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
EGRESS OCCUPANTS PER TABLE 1004.5 (OCC)	9.0	11.0	9.0	20.0	18.0	19.0	14.0	4.0	6.0	3.0	2.0	2.0	1.0	2.0	3.0	3.0	4.0	2.0	2.0	2.0	5.0	2.0	2.0	1.0	1.0
ACTUAL OCCUPANCY	**2**	**3**	**15**	**15**	**10**	**8**	**8**	**2**	**9**	**1**	**1**	**1**	**1**	**1**	**3**	**12**	**10**	**2**	**5**	**2**	**32**	**5**	**5**	**1**	**1**
PEOPLE OUTDOOR AIR RATE (CFM/PERSON)	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
AREA OUTDOOR AIR RATE (CFM/SF)	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.3	0.15	0.15	0.15	0.15
VENTILATON REQUIRED PER PEOPLE (CFM)*	30.0	45.0	225.0	225.0	150.0	120.0	120.0	30.0	135.0	45.0	15.0	15.0	15.0	75.0	45.0	180.0	150.0	30.0	75.0	30.0	480.0	75.0	75.0	15.0	8.0
VENTILATON REQUIRED PER AREA (CFM)*	257.0	309.0	245.0	596.0	524.0	549.0	420.0	103.0	155.0	81.0	42.0	42.0	20.0	42.0	65.0	48.0	70.0	30.0	29.0	26.0	342.0	39.0	37.0	5.0	8.0
REQUIRED VENTILATION - WHICHEVER IS GREATER*	**257.0**	**309.0**	**245.0**	**596.0**	**524.0**	**549.0**	**420.0**	**103.0**	**155.0**	**81.0**	**42.0**	**42.0**	**20.0**	**75.0**	**65.0**	**180.0**	**150.0**	**30.0**	**75.0**	**30.0**	**480.0**	**75.0**	**75.0**	**15.0**	**8.0**

2022 CALIFORNIA MECHANICAL CODE - CHAPTER 4 VENTILATION
TABLE 402.1 - MINIMUM RATES IN BREATHING ZONE
REFERENCED FROM (2022 ASHRAE 62.1: TABLE 6.2.2.1)

SPACES & LOCATIONS	GERMINATION CHAMBER A1	GERMINATION CHAMBER A2	PACKHOUSE A2	PACKHOUSE A1	DISTRIBUTION A	PRODUCTION AREA A	WAREHOUSE A	MIXING	WORKSHOP A	LAB A	MPOE, I.T.	ELECTRICAL	ENTRY	LOBBY	CORRIDOR	CONFERENCE	OFFICE	DECON A	LOCKERS	DECON B	KITCHENETTE	MENS WC	WOMENS WC	MOP1	MOP2
OCCUPANCY CATEGORY	GEN MFG	GEN MFG	OCC STORAGE	OCC STORAGE	OCC STORAGE	GEN MFG	OCC STORAGE	GEN MFG	GEN MFG	GEN MFG	GEN MFG	GEN MFG	OFFICE	OFFICE	OFFICE	OFFICE	OFFICE	OFFICE	OFFICE	OFFICE	OFFICE	OFFICE	OFFICE	OFFICE	OFFICE
AREA (SF)	1,708.0	2,955.0	1,630.0	3,967.0	3,487.0	3,655.0	2,796.0	683.0	1,027.0	540.0	278.0	280.0	128.0	277.0	430.0	319.0	464.0	198.0	188.0	170.0	684.0	256.0	243.0	32.0	52.0
PEOPLE OUTDOOR AIR RATE (Rp)	10	10	5	5	5	10	5	10	10	10	10	10	5	5	0	5	5	5	5	5	5	5	5	5	5
AREA OUTDOOR AIR RATE (Ra)	0.18	0.18	0.12	0.12	0.12	0.18	0.12	0.18	0.18	0.18	0.18	0.18	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.12	0.06	0.06	0.06	0.06
DEFAULT OCCUPANCY DENSITY (PEOPLE/1,000SF)	7	7	2	2	2	7	2	7	7	7	7	7	5	5	5	5	5	5	5	5	50	5	5	5	5
DISTRIBUTION EFFECTIVENESS (Ez)*	**0.8**	**0.8**	**0.8**	**0.8**	**0.8**	**0.8**	**0.8**	**0.8**	**0.8**	**0.8**	**0.8**	**0.8**	**0.8**	**0.8**	**0.8**	**0.8**	**0.8**	**0.8**	**0.8**	**0.8**	**0.8**	**0.8**	**0.8**	**0.8**	**0.8**
ACTUAL OCCUPANCY	2	3	15	15	10	8	8	2	9	1	1	1	1	5	3	12	10	2	5	2	32	5	5	1	0
EQUATION [VENTILATION = (PEOPLE*Rp)+(AREA*Ra)/Ez]	409.30	499.88	338.25	688.80	585.55	922.38	469.40	178.68	343.58	159.00	75.05	75.50	15.85	52.03	32.25	98.93	97.30	27.35	45.35	25.25	302.60	50.45	49.48	8.65	6.40
REQUIRED VENTILATION (CFM)	**410.0**	**500.0**	**339.0**	**689.0**	**586.0**	**923.0**	**470.0**	**179.0**	**344.0**	**159.0**	**76.0**	**76.0**	**16.0**	**53.0**	**33.0**	**99.0**	**98.0**	**28.0**	**46.0**	**26.0**	**303.0**	**51.0**	**50.0**	**9.0**	**7.0**
*TABLE 403.2.2 (MAKEUP SUPPLY FROM OPPOSITE SIDE)																									
WHICHEVER IS GREATER ANALYSIS																									
CMC VENT VS CEC VENT	410.0	500.0	339.0	689.0	586.0	923.0	470.0	179.0	344.0	159.0	76.0	76.0	20.0	75.0	65.0	180.0	150.0	30.0	75.0	30.0	480.0	75.0	75.0	15.0	8.0
SPECIFIED VENTILATION AIRFLOW (CFM)	**410.0**	**500.0**	**340.0**	**690.0**	**590.0**	**925.0**	**470.0**	**180.0**	**345.0**	**160.0**	**70.0**	**70.0**	**20.0**	**75.0**	**65.0**	**180.0**	**150.0**	**30.0**	**75.0**	**30.0**	**480.0**	**75.0**	**75.0**	**15.0**	**10.0**
TOTAL VENTILATION SPECIFIED (CFM)				**1,620.0**											**4,180.0**										

2022 CALIFORNIA MECHANICAL CODE - CHAPTER 4 VENTILATION
TABLE 403.7 - MINIMUM EXHAUST RATES
REFERENCED FROM (2022 ASHRAE 62.1: TABLE 6.5)

SPACES & LOCATIONS	DECON A	LOCKERS	DECON B	KITCHENETTE	MENS WC	WOMENS WC	MOP1	MOP2
OCCUPANCY CATEGORY	SOILED LAUNDRY	SOILED LAUNDRY	SOILED LAUNDRY	KITCHENETTE	TOILETS	TOILETS	JANITOR CLOSET	JANITOR CLOSET
AREA (SF)	198.0	188.0	170.0	684.0	NA	NA	32.0	52.0
QUANTITY WC AND URINALS (#)	NA	NA	NA	NA	5	5	NA	NA
CONTINUOUS EXHAUST RATE PER WC & URINALS (CFM)	NA	NA	NA	NA	50	50	NA	NA
EXHAUST RATE (CFM/SF)	1	1	1	0.3	NA	NA	1	1
EQUATION = AREA(SF) * EXHAUST RATE(CFM/SF)	**198.0**	**188.0**	**170.0**	**205.2**	**250.0**	**250.0**	**32.0**	**52.0**
SPECIFIED CONTINUOUS EXHAUST AIRFLOW (CFM)	**200.0**	**190.0**	**170.0**	**205.0**	**250.0**	**250.0**	**35.0**	**55.0**

MECHANICAL VENTILATION NOTES

PIPE HANGERS & SUPPORTS (TABLE 313.3)

MATERIALS	TYPES OF JOINTS	HORIZONTAL	VERTICAL
Cast	Lead and Oakum	5 feet, except 10 feet where 10 foot lengths are installed[1, 2, 3]	Base and each floor, not to exceed 15 feet
	Compression Gasket	Every other joint, unless over 4 feet then support each joint[1, 2, 3]	Base and each floor, not to exceed 15 feet
Cast-iron Hubless	Shielded Coupling	Every other joint, unless over 4 feet then support each joint[1, 2, 3, 4]	Base and each floor, not to exceed 15 feet
Copper & Copper Alloys	Soldered, Brazed, Threaded, or Mechanical	1½ inches and smaller, 6 feet; 2 inches and larger, 10 feet	Each floor, not to exceed 10 feet[5]
Steel Pipe for Water or DWV	Threaded or Welded	½ inch and smaller, 10 feet; 1 inch and larger, 12 feet	Every other floor, not to exceed 25 feet[5]
Steel Pipe for Gas	Threaded or Welded	½ inch, 6 feet; ¾ inch and 1 inch, 8 feet; 1¼ inches and larger, 10 feet	½ inch, 6 feet; ¾ inch and 1 inch, 8 feet; 1¼ inches every floor level
Schedule 40 PVC and ABS DWV	Solvent Cemented	All sizes, 4 feet; allow for expansion every 30 feet[3]	Base and each floor; provide mid-story guides; provide for expansion every 30 feet
CPVC	Solvent Cemented	1 inch and smaller, 3 feet; 1¼ inches and larger, 4 feet	Base and each floor; provide mid-story guides
CPVC-AL-CPVC	Solvent Cemented	½ inch, 5 feet; ¾ inch, 6 inches; 1 inch, 6 feet	Base and each floor; provide mid-story guide
Lead	Wiped or Burned	Continuous Support	Not to exceed 4 feet
Steel	Mechanical	In accordance with standards acceptable to the Authority Having Jurisdiction	
PEX	Cold Expansion, Insert and Compression	1 inch and smaller, 32 inches; 1¼ inches and larger, 4 feet	Base and each floor; provide mid-story guides
PEX-AL-PEX	Metal Insert and Metal Compression	½ inch, ¾ inch, 1 inch } All sizes 98 inches	Base and each floor; provide mid-story guides
PE-AL-PE	Metal Insert and Metal Compression	½ inch, ¾ inch, 1 inch } All sizes 98 inches	Base and each floor; provide mid-story guides
PEX-RT	Insert and Compression	1 inch and smaller, 32 inches; 1¼ inches and larger, 4 feet	Base and each floor; provide mid-story guides
Polypropylene (PP)	Fusion-weld (socket, butt, saddle, electrofusion), threaded (metal threads only), or mechanical	1 inch and smaller, 32 inches; 1¼ inches and larger, 4 feet	Base and each floor; provide mid-story guides

For SI units: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

Notes:

1. Support adjacent to joint, not to exceed 18 inches (457 mm).
2. Brace not to exceed 40 foot (12192 mm) intervals to prevent horizontal movement.
3. Support at each horizontal branch connection.
4. Hangers shall not be placed on the coupling.
5. Vertical water lines shall be permitted to be supported in accordance with recognized engineering principles with regard to expansion and contraction, where first approved by the Authority Having Jurisdiction.

PIPE INSULATION THICKNESS (TABLE 120.3-A)

FLUID OPERATING TEMPERATURE RANGE (°F)	INSULATION CONDUCTIVITY CONDUCTIVITY (in Btu•in/h•ft²•°F)	MEAN RATING TEMPERATURE (°F)		NOMINAL PIPE DIAMETER (in inches)				
				< 1	1 to < 1.5	1.5 to < 4	4 to < 8	8 and larger
Space heating and Service Water Heating Systems (Steam, Steam Condensate, Refrigerant, Space Heating, Service Hot Water)				**Minimum Pipe Insulation Required (Thickness in inches or R-value)**				
Above 350	0.32—0.34	250	Inches	4.5	5.0	5.0	5.0	5.0
			R-value	R-37	R-41	R-37	R-27	R-23
251—350	0.29—0.32	200	Inches	3.0	4.0	4.5	4.5	4.5
			R-value	R-24	R-34	R-35	R-26	R-22
201—250	0.27—0.30	150	Inches	2.5	2.5	2.5	3.0	3.0
			R-value	R-21	R-20	R-17.5	R-17	R-14.5
141—200	0.25—0.29	125	Inches	1.5	1.5	2.0	2.0	2.0
			R-value	R-11.5	R-11	R-14	R-11	R-10
105—140	0.22—0.28	100	Inches	1.0	1.5	1.5	1.5	1.5
			R-value	R-7.7	R-12.5	R-11	R-9	R-8

FLUID OPERATING TEMPERATURE RANGE (°F)	INSULATION CONDUCTIVITY CONDUCTIVITY (in Btu•in/h•ft²•°F)	MEAN RATING TEMPERATURE (°F)		Nominal Pipe Diameter (in inches)				
				< 1	1 to < 1.5	1.5 to < 4	4 to < 8	8 and larger
Space cooling systems (chilled water, refrigerant and brine)				**Minimum Pipe Insulation Required (Thickness in inches or R-value)[1]**				
40—60	0.21—0.27	75	Inches	Nonres 0.5 / Res 0.75	Nonres 0.5 / Res 0.75	1.0	1.0	1.0
			R-value	Nonres R-3 / Res R-6	Nonres R-3 / Res R-5	R-7	R-6	R-5
Below 40	0.20—0.26	50	Inches	1.0	1.5	1.5	1.5	1.5
			R-value	R-8.5	R-14	R-12	R-10	R-9

1. These thicknesses are based on energy efficiency considerations only. Issues such as water vapor permeability or surface condensation sometimes require vapor retarders or additional insulation.

MECHANICAL MATERIAL NOTES

DUCTWORK
ALL RECTANGULAR AND ROUND DUCTWORK AND PLENUMS SHALL BE GALVANIZED SHEET METAL AND SHALL BE CONSTRUCTED, INSTALLED AND SUPPORTED IN ACCORDANCE WITH "SMACNA HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE, THIRD EDITION."

EXCEPTION, ACOUSTIC FLEXIBLE DUCT SHALL BE USED IN CONCEALED FINAL 5FT MAX CONNECTION TO DIFFUSERS AND GRILLES AND IN CONCEALED TRANSFER DUCTS.

IN HIGH MOISTURE ENVIRONMENTS STAINLESS STEEL OR ALUMINUM SHEET METAL DUCTS SHALL BE CONSTRUCTED; CODE AND OTHER APPLICABLE FACTORS SHALL APPLY.

IN DIFFERENT AIR CLASS ENVIRONMENTS ALTERNATIVE DUCT TYPES MAY NEED BE CONSTRUCTED; CODE AND OTHER APPLICABLE FACTORS SHALL APPLY.

ACOUSTIC FLEXIBLE DUCT SHALL BE PRE-MANUFACTURED WITH GALVANIZED STEEL WIRE HELIX. DUCT SHALL BE PRE-INSULATED WITH R-6, UL 181 LISTED, POLYETHYLENE SEAMLESS OUTER, TWO LAYER POLYESTER INNER TOTALLY ENCAPSULATED GALVANIZED STEEL WIRE HELIX. SHALL BE SUPPORTED WITHOUT KINKS OR BENDS.

PROVIDE BALANCE DAMPERS WHERE SHOWN ON PLANS OR UTILIZE (AS SPECIFIED OPPOSED BLADE DAMPERS IN DIFFUSERS OR GRILLES) AND AT ALL BRANCHES IN SUPPLY AND RETURN DUCTS, AS CLOSE TO BRANCH CONNECTIONS AS POSSIBLE.

PROVIDE TURNING VANES AT ALL RECTANGULAR ELBOWS OR USE RADIAL ELBOWS.

ACOUSTIC DUCT LINER
SUPPLY & RETURN AIR DUCTS & PLENUMS SHALL INCLUDE 1" THICK (OWENS CORNING R-4.2) ACOUSTIC DUCT LINER.

IF IN UNCONDITIONED SPACES SUPPLY & RETURN AIR DUCTS & PLENUMS SHALL INCLUDE 2" THICK (OWENS CORNING R-6) ACOUSTIC DUCT LINER.

ACOUSTIC DUCT LINER SHALL BE BACTERIA AND FUNGI RESISTANT.

DUCT INSULATION
SUPPLY AND RETURN DUCTS CONVEYING CONDITIONED AIR IN UNCONDITIONED SPACES SHALL INCLUDE OWENS CORNING "SOFT R" TYPE 75 DUCT WRAP, 3" THICKNESS, W INSTALLED R-8 OR GREATER.

SUPPLY AND RETURN DUCTS CONVEYING CONDITIONED AIR IN OUTDOOR SPACES SHALL INCLUDE DOUBLE WALL DUCT WITH INTERNAL INSULATION R-8 OR GREATER.

AIR SYSTEM BALANCE NOTES

AIR SYSTEMS SHALL BE BALANCED TO PROVIDE THE GENERAL AIR BALANCE RELATIONSHIP TO ADJACENT AREAS. SHALL BE BALANCED PER DRAWINGS USING BRANCH MANUAL BALANCING DAMPERS (OR IF APPLICABLE OPPOSED BLADE DAMPERS IN DIFFUSERS OR GRILLES OR EGGCRATE UNITS).

AIR (VENTILATION & EXHAUST) SYSTEMS SHALL BE BALANCED IN ACCORDANCE WITH THE LATEST EDITION OF STANDARDS PUBLISHED BY THE ASSOCIATED AIR BALANCE COUNCIL (AABC), THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB), OR THE TESTING, ADJUSTING AND BALANCING BUREAU (TABB).

AIR (VENTILATION & EXHAUST) SYSTEMS BALANCE SHALL BE DOCUMENTED AS A TABS REPORT & SHALL BE PROVIDED IN DIGITAL COPY TO THE OWNER (FOR REFERENCE) AND THE MECHANICAL ENGINEER (FOR APPROVAL) PRIOR TO PROJECT COMPLETION.

BUILDING ENERGY EFFICIENCY STANDARDS, TITLE 24, PART 6

THIS PROJECT IS CONSIDERED A NEW CONSTRUCTION PROJECT AND THEREFORE MUST BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE STANDARDS WITHIN TITLE 24, PART 6.

PROJECT IS BEING SATISFIED USING THE PRESCRIPTIVE METHOD.

PLEASE SEE ENERGY CONSULTANTS ENERGY COMPLIANCE SHEETS FOR TITLE 24 ENERGY REQUIREMENTS, CERTIFICATE OF COMPLIANCE, AND NON-RESIDENTIAL MANDATORY MEASURES SUMMARY.

CALGREEN MECHANICAL BUILDING STANDARDS

PROJECT SHALL MEET THE MINIMUM REQUIREMENTS OF THE BELOW GREEN BUILDING CODE

MEET THE MINIMUM ENERGY EFFICIENCY STANDARD 5.201.1

TEMPORARY VENTILATION 5.504.1

DURING CONSTRUCTION ALL MECHANICAL EQUIPMENT SHALL BE PROTECTED AND ALL DUCT OPENINGS SHALL BE COVERED. 5.504.3

MECHANICALLY VENTILATED BUILDINGS SHALL PROVIDE REGULARLY OCCUPIED AREAS OF THE BUILDING WITH AIR FILTRATION MEDIA FOR OUTSIDE AND RETURN AIR THAT PROVIDES AT LEAST A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 13. MERV 13 FILTERS SHALL BE INSTALLED PRIOR TO OCCUPANCY, AND RECOMMENDATIONS FOR MAINTENANCE WITH FILTERS OF THE SAME VALUE SHALL BE INCLUDED IN THE OPERATION AND MAINTENANCE MANUAL. 5.504.5.3.

HVAC FILTRATION SHALL BE LABELED 5.504.5.3.1

ENVIRONMENTAL TOBACCO SMOKE (ETS) CONTROL 5.504.7

INDOOR MOISTURE CONTROL 5.505.1

OUTSIDE AIR DELIVERY 5.506.1

CARBON DIOXIDE (CO2) MONITORING 5.506.2

ACOUSTICAL CONTROL (WITH EXCEPTION) 5.507.4

EXTERIOR NOISE TRANSMISSION, PRESCRIPTIVE METHOD (WITH EXCEPTIONS) 5.507.4.1

INTERIOR SOUND TRANSMISSION (WITH NOTE) 5.507.4.3

OZONE DEPLETION AND GREENHOUSE GAS REDUCTIONS 5.508.1

CHLOROFLUOROCARBONS (CFCS) 5.508.1.1

HALONS 5.508.1.2

GENERAL MECHANICAL NOTES

THIS PROJECT IS CONSIDERED A NEW CONSTRUCTION PROJECT BUT MAY HAVE SOME EXISTING CONDITIONS WHICH WILL REQUIRED NEW EQUIPMENT TO INTERFACE WITH EXISTING. ALL REPRESENTATIONS OF EXISTING CONDITIONS ARE BASED ON LIMITED OWNER-FURNISHED DOCUMENTATION AND LIMITED FIELD VERIFICATION.

PRIOR TO BEGINNING CONSTRUCTION OR ORDERING EQUIPMENT CONTRACTOR SHALL VISIT THE SITE AND PERFORM OWN FIELD INVESTIGATIONS TO DETERMINE ACTUAL EXISTING CONDITIONS INCLUDING UTILITIES, EQUIPMENT, AND ANY OBSTRUCTIONS.

PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL PROVIDE A SCHEDULE WITH MAJOR MILESTONES.

ALL NEW CONSTRUCTION WORK SHOWN AS NEW SHALL BE SUPPLIED AS NEW UNLESS OTHERWISE NOTED AS EXISTING (E) OR RELOCATED (RE).

SUBMITTALS ARE REQUIRED FOR THIS PROJECT. ALL PROJECT SPECIFIC EQUIPMENT SUBMITTALS FROM THE MANUFACTURER AND/OR SUPPLIER SHALL BE PROVIDED IN DIGITAL COPY TO THE OWNER (FOR REFERENCE) AND THE MECHANICAL ENGINEER (FOR APPROVAL) PRIOR TO INSTALL.

AIR SYSTEMS SHALL BE BALANCED PER DRAWINGS USING BRANCH MANUAL BALANCING DAMPERS (OR IF APPLICABLE OPPOSED BLADE DAMPERS IN DIFFUSERS OR GRILLES OR EGGCRATE UNITS).

AIR SYSTEM BALANCE SHALL BE DOCUMENTED AS A TABS REPORT BY A NEBB LICENSED INDEPENDENT AIR BALANCER. TABS REPORT SHALL BE PROVIDED IN DIGITAL COPY TO THE OWNER (FOR REFERENCE) AND THE MECHANICAL ENGINEER (FOR APPROVAL) PRIOR TO PROJECT COMPLETION.

OPERATION AND MAINTENANCE MANUALS SHALL BE PROVIDED IN DIGITAL COPY TO THE OWNER (FOR REFERENCE) AND THE MECHANICAL ENGINEER (FOR REFERENCE) PRIOR TO PROJECT COMPLETION.

AS-BUILT DRAWINGS SHALL BE PROVIDED BY THE HVAC CONTRACTOR IN DIGITAL COPY TO THE OWNER (FOR REFERENCE) AND THE MECHANICAL ENGINEER (FOR REFERENCE) PRIOR TO PROJECT COMPLETION. MARKUPS TO EXISTING & APPROVED DRAWINGS IS ACCEPTABLE.

DRAWINGS SHALL BE CONSIDERED DIAGRAMMATICAL AND ARE NOT INTENDED TO SHOW EVERY OFFSET, TRANSITION, OR FITTING. LOCATIONS OF ITEMS NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. EXACT LOCATIONS NECESSARY TO SECURE BEST CONDITIONS AND RESULTS SHALL BE DETERMINED BY THE CONTRACTOR AND SHALL HAVE THE FINAL APPROVAL OF THE ENGINEER.

PROVIDE MAINTENANCE ACCESS FOR ALL MECHANICAL EQUIPMENT AND SYSTEM COMPONENTS. CONTRACTOR SHALL INSTALL ALL EQUIPMENT FOR CLEAR AND UNOBSTRUCTED ACCESS. MAINTENANCE TO EQUIPMENT IN SUSPENDED CEILING SYSTEMS SHALL BE THROUGH UNOBSTRUCTED AND EASILY REMOVABLE CEILING TILES. MAINTENANCE TO EQUIPMENT IN HARD CEILINGS AND WALLS SHALL BE THROUGH UNOBSTRUCTED ACCESS PANELS. NOT ALL ACCESS PANELS MAY BE SHOWN ON DRAWINGS.

EQUIPMENT SHALL BE MOUNTED AND ATTACHED TO THE STRUCTURE SO THAT IT IS RESTRAINED IN THE EVENT OF SEISMIC ACTIVITY IN ACCORDANCE WITH THE REQUIREMENTS OF THE BUILDING CODE.

COORDINATE FINAL LOCATION OF DUCTWORK, LOUVERS, DAMPERS, DIFFUSERS, GRILLES, AND LARGE EQUIPMENT WITH ARCHITECTURAL AND ELECTRICAL PLANS.

DUCTWORK SIZES NOTED ON DRAWINGS ARE FREE AREA SIZES. COORDINATE OUTSIDE DIMENSIONS (INCLUDING INSULATION) AND THROUGH WALL CLEARANCES WITH ARCHITECTURAL PLANS.

MOUNT THERMOSTATS AT 48" AFF. COORDINATE JUNCTION BOX INSTALL WITH ELECTRICAL CONTRACTOR.

OUTDOOR AIR INTAKES (AND ECONOMIZERS) SHALL BE INSTALLED A MINIMUM OF 10FT FROM ALL EXHAUST AIR DISCHARGE, GAS FLUES, AND PLUMBING VENTS.

ENVIRONMENTAL AIR DUCT EXHAUST SHALL TERMINATE NOT LESS THAN 3FT FROM A PROPERTY LINE OR OPENINGS INTO THE BUILDING AND 10FT FROM A FORCED AIR INLET. ENVIRONMENTAL EXHAUST DUCTS SHALL NOT DISCHARGE ONTO A PUBLIC WALKWAY.

DUCTS CONVEYING EXPLOSIVE OR FLAMMABLE VAPORS, FUMES, OR DUSTS SHALL TERMINATE NOT LESS THAN 30FT FROM A PROPERTY LINE OR FROM COMBUSTIBLE WALLS OR OPENINGS INTO THE BUILDING THAT ARE IN THE DIRECTION OF THE EXHAUST DISCHARGE, 10FT FROM OPENINGS INTO THE BUILDING OR ABOVE ADJOINING GRADE, AND 6FT FROM EXTERIOR WALLS OR ROOFS.

REFRIGERANT PIPING SHALL BE INSULATED AND COVERED WITH CLASS 1 OR CLASS 11 VAPOR RETARDING FACING.

DURING CONSTRUCTION ALL UNINSTALLED DUCT OR DUCT OPENINGS SHALL BE COVERED AS TO NOT ALLOW DUCTS TO ACCUMULATE WITHIN.

FOLLOWING CONSTRUCTION DUCT LEAKAGE TESTING SHALL BE PERFORMED IN ACCORDANCE WITH SMACNA HVAC AIR DUCT MANUAL. THE PERMITTED DUCT LEAKAGE SHALL BE NOT MORE THAN THE CALCULATED VALUE FROM EQUATION 603.9.2 [CMC 603.9.2]

SEED
SANTA CRUZ INC
SUSTAINABLE ENVIRONMENT ENGINEERED DESIGN

130 Pearl Alley
Santa Cruz, CA 95060
Contact: Scott Shelton
scottshelton@seedscca.com
www.seedscca.com

PRELIMINARY NOT FOR CONSTRUCTION
ISSUE FOR COORDINATION
PENDING BUILDING DEPARTMENT APPROVAL
REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA

PROJECT INFORMATION	
CLIENT:	HIPPO HARVEST
NUMBER:	250008
START DATE:	2.20.2025
DRAWN BY:	STS
CHECKED BY:	STS

NEW CONSTRUCTION FOR:
HIPPO HARVEST
2370 SHORE ROAD
HOLLISTER, CA 95023

DRAWINGS & REVISIONS		
NO	DESCRIPTION	DATE
-	MECHANICAL BID SET	6.5.2025
-	PLUMBING BID SET	6.6.2025
-	MECHANICAL BID SET ADD 1	6.24.2025
-	MECH-PLUMB BID SET ADD 2	6.27.2025
-	-	-
-	-	-
-	-	-
-	-	-

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MECHANICAL
NOTES & CALCULATIONS

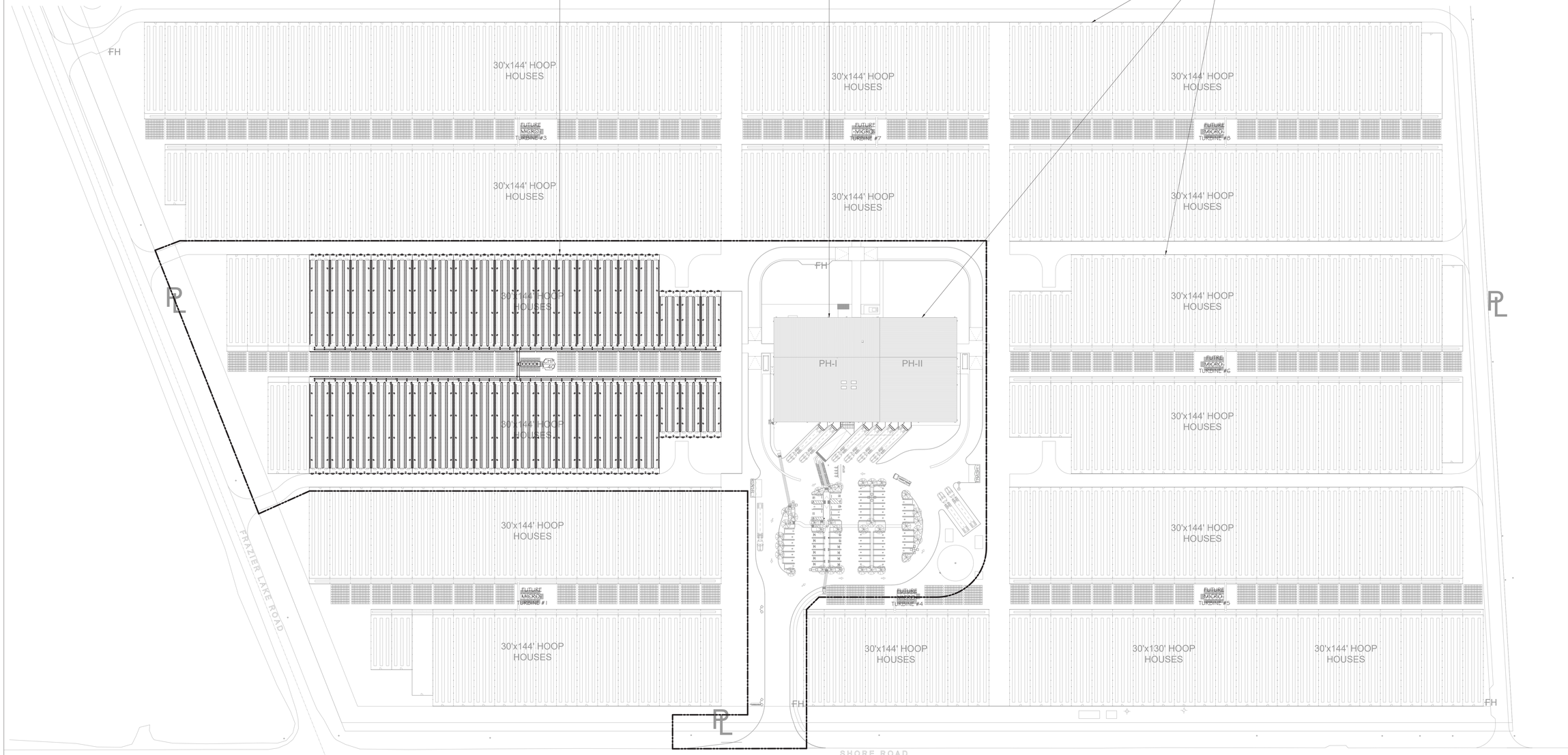
SHEET: M0.3

BID SET #1 - ADDENDUM 2

MECHANICAL GREENHOUSES
PHASE 1
(SEE SHEET M2.2)

MECHANICAL MAIN BUILDING
PHASE 1
(SEE SHEETS M2.0, M2.0 & M2.1)

MECHANICAL FOR ALL OTHER GREENHOUSES AND EAST PORTION OF MAIN BUILDING SHALL NOT BE CONSIDERED IN PRICING OF PHASE 1



TRUE NORTH
BUILDING NORTH

SITE PLAN
SCALE: 1/64" = 1'-0"

SEED
SANTA CRUZ INC
SUSTAINABLE ENVIRONMENT ENGINEERED DESIGN

130 Pearl Alley
Santa Cruz, CA 95060
Contact: Scott Shelton
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REGISTERED PROFESSIONAL ENGINEER
SCOTT T. SHELTON
No. 34227
CIVIL
STATE OF CALIFORNIA
PRELIMINARY
ISSUED FOR COORDINATION
NOT FOR BIDDING

PROJECT INFORMATION	
CLIENT:	HIPPO HARVEST
NUMBER:	250008
START DATE:	2.20.2025
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NEW CONSTRUCTION FOR:

HIPPO HARVEST HOLLISTER

2370 SHORE ROAD
HOLLISTER, CA 95023

DRAWINGS & REVISIONS		
NO	DESCRIPTION	DATE
-	MECHANICAL BID SET	6.5.2025
-	PLUMBING BID SET	6.6.2025
-	MECHANICAL BID SET REV.	6.24.2025
-	MECH-PLUMB BID SET REV.	6.27.2025
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MECHANICAL
SITE PLAN

SHEET: M1.0

BID SET #1 - ADDENDUM 2



TRUE NORTH

BUILDING NORTH

ZONE AREA & SET-POINT PLAN

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

SEED
SANTA CRUZ INC
SUSTAINABLE ENVIRONMENT ENGINEERED DESIGN

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REGISTERED PROFESSIONAL ENGINEER
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NEW CONSTRUCTION FOR:

HIPPO HARVEST HOLLISTER

2370 SHORE ROAD
HOLLISTER, CA 95023

DRAWINGS & REVISIONS		
NO	DESCRIPTION	DATE
-	MECHANICAL BID SET	6.5.2025
-	PLUMBING BID SET	6.6.2025
-	MECHANICAL BID SET REV1	6.24.2025
-	MECH-PLUMB BID SET REV1	6.27.2025
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-	-	-
-	-	-
-	-	-

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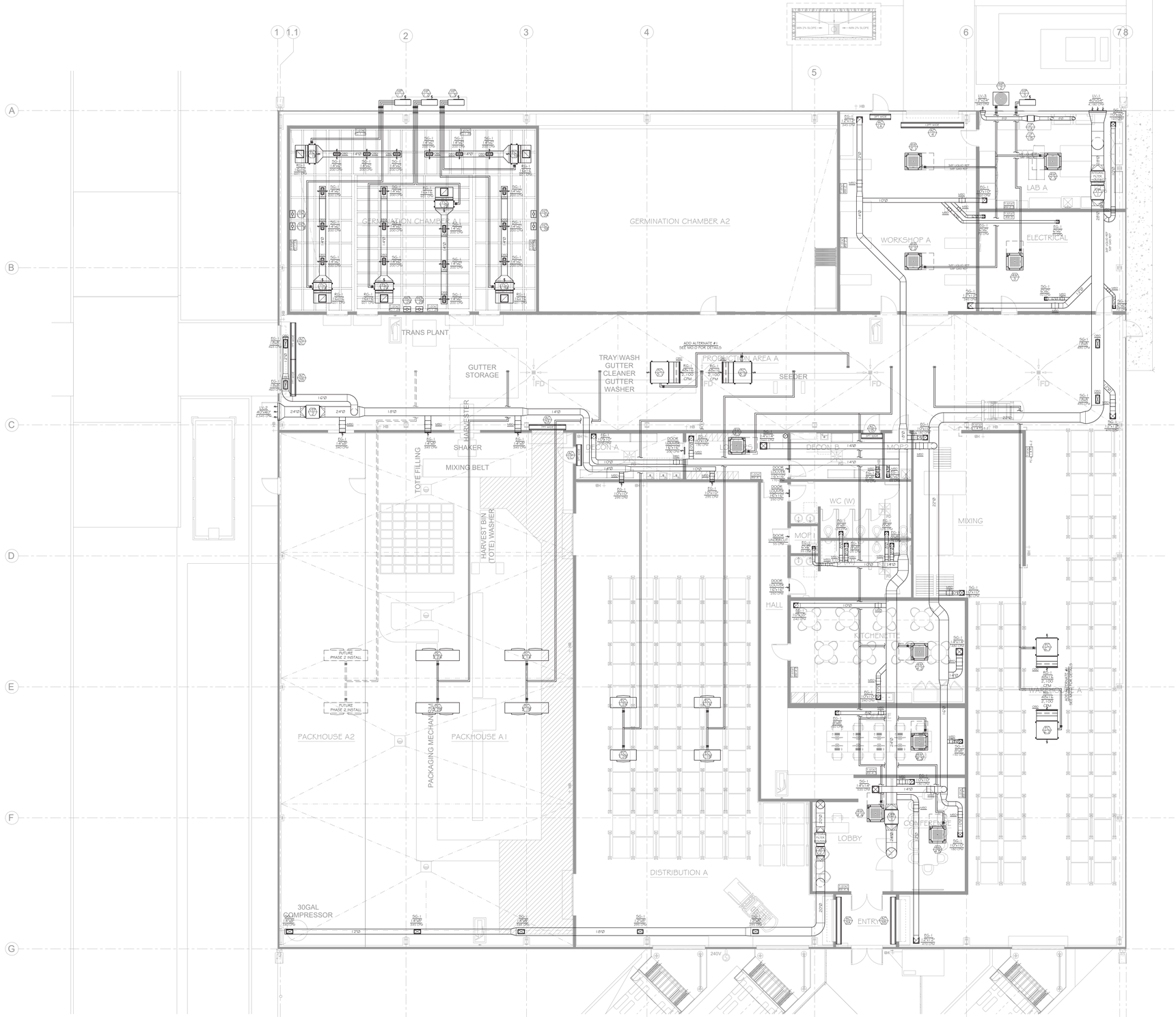
MECHANICAL
ZONE AREA & SET-POINT PLAN

SHEET: MZ2.0

BID SET #1 - ADDENDUM 2



TRUE NORTH

BUILDING NORTH

FLOOR PLAN

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

SEED
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-	MECHANICAL BID SET ADDT.	6.24.2025
-	MECH-PLUMB BID SET ADDT.	6.27.2025
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-	-	-

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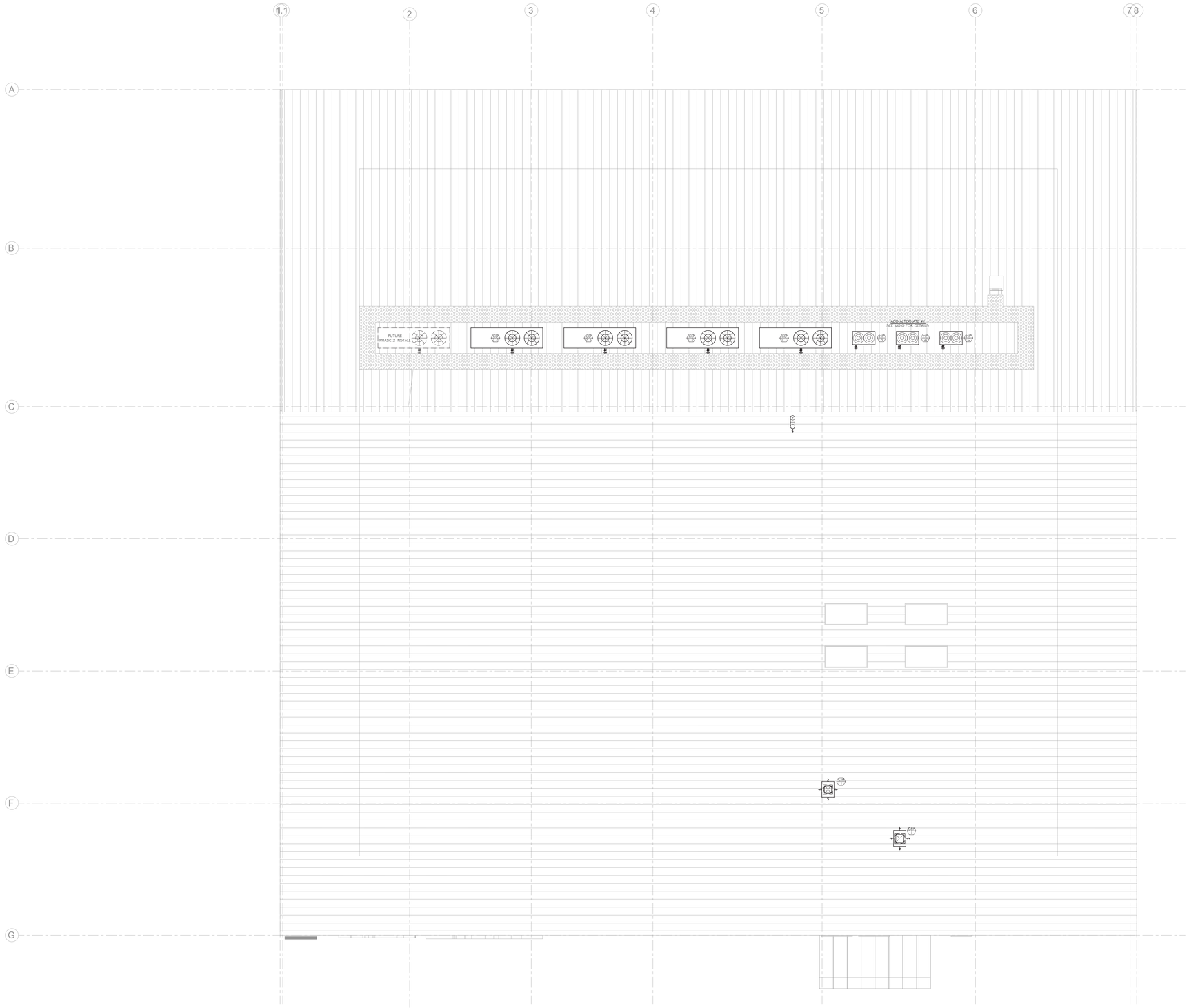
MECHANICAL
FLOOR PLAN

SHEET: M2.0

BID SET #1 - ADDENDUM 2



TRUE NORTH

BUILDING NORTH

ROOF PLAN

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

SEED
SANTA CRUZ INC
SUSTAINABLE
ENVIRONMENT
ENGINEERED
DESIGN

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REGISTERED PROFESSIONAL ENGINEER
MECHANICAL
STATE OF CALIFORNIA

PRELIMINARY
* ISSUE FOR
INFORMATION
* NOT FOR
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PROJECT INFORMATION	
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NEW CONSTRUCTION FOR:

HIPPO HARVEST HOLLISTER

2370 SHORE ROAD
HOLLISTER, CA 95023

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NO	DESCRIPTION	DATE
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-	PLUMBING BID SET	6.6.2025
-	MECHANICAL BID SET REV1	6.24.2025
-	MECH-PLUMB BID SET REV2	6.27.2025
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-	-	-
-	-	-
-	-	-

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MECHANICAL
ROOF PLAN

SHEET: M2.1

BID SET #1 - ADDENDUM 2

MICROTURBINE MODULE SCHEDULE

TAG	LOCATION	SERVICE	TYPE	QUAN	BASIS OF DESIGN	
					MFG	MODEL (SIZE)
CHP -40	LANE AT GREENHOUSE HOOPS 1 THRU 40	GREENHOUSE HOOPS 1 THRU 40	HIGH PRESSURE NAT GAS MICROTURBINE	1	CAPSTONE GREEN ENERGY	C1000S

Capstone Green Energy

Energy Conversion Products

C1000S Microturbine

High-pressure Natural Gas

The Signature Series Microturbine provides 1MW of reliable electrical power in one small, ultra-low emission, and highly efficient package.



©2005 Power Package

Electrical Performance[1]

Electrical Power Output	1000kW
Voltage	400/480 VAC
Electrical Service	3-Phase, 4 Wire Wye
Frequency	50/60 Hz
Electrical Efficiency LHV	33%

Fuel/Engine Characteristics[2]

Natural Gas HHV[3]	39.7-47.5 MJ/m³ (926-1,275 BTU/scf)
Inlet Pressure	517-551 kPa gauge (75-80 psig)
Fuel Flow HHV	32,200 MJ/hr (11,400,000 BTUH)
Net Heat Rate LHV	10.9 MJ/kWh (10,300 BTU/kWh)

Exhaust Characteristics[2]

NO_x Emissions @ 15% O_2	< 9 ppmvd (19 mg/m³)
Exhaust Mass Flow	8.7 kg/s (19.2 lb/s)
Exhaust Gas Temperature	280°C (535°F)

Benefits

- Ultra-low emissions
- One moving part – minimal maintenance and downtime
- Patented air bearings – no lubricating oil or coolant
- Integrated utility synchronization – no external switchgear
- Compact modular design for quick, easy, low-cost installation
- High electrical efficiency over a very wide operating range
- High availability – part load redundancy
- Remote monitoring and diagnostic capabilities
- Proven technology with tens of millions of operating hours
- Various Factory Protection Plans available

Smarter Energy for a Cleaner Future

Dimensions & Weight[2]

Width x Depth x Height	3.0 x 8.5 x 3.0 m (117 x 380 x 319 in)
Weight - Grid Connect Model	27,200 kg (57,750 lbs)
Weight - Dual Mode Model	30,850 kg (65,530 lbs)

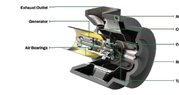
Minimum Clearance Requirements[2]

Horizontal Clearance	
Left	3.0 m (10 in)
Right	0.0 m (0 in)
Front	3.7 m (36 in)
Rear	2.2 m (88 in)

Certifications

- UL 2200 Listed
- CE Certified
- Certified to the following grid interconnections standards: UL1741-SA, VDE, IEEE1547, CSI 0-16, AS4777
- Compliant to California Rule 21

C200 Engine Components



1) Nominal or typical performance at ISO conditions: 15°C (59°F), 1.0 bar (14.7 psia), 60% RH
2) Installed de-rate will depend on specific site conditions such as altitude, ambient temperature, and fuel composition.
3) Fuel composition must meet Capstone fuel specification document 410044 Rev C or later.
Specifications are subject to change without notice. Contact Capstone for the most current version.

©2005 Capstone Green Energy. P/N 200212 ICS10 Power Package PP Product Size Data Sheet (DATA) (Capstone P/N 100 527)
Call us Toll Free: 1.866.4.MCT.TWC Tel: 1.818.734.5300 | www.capstonegreenenergy.com

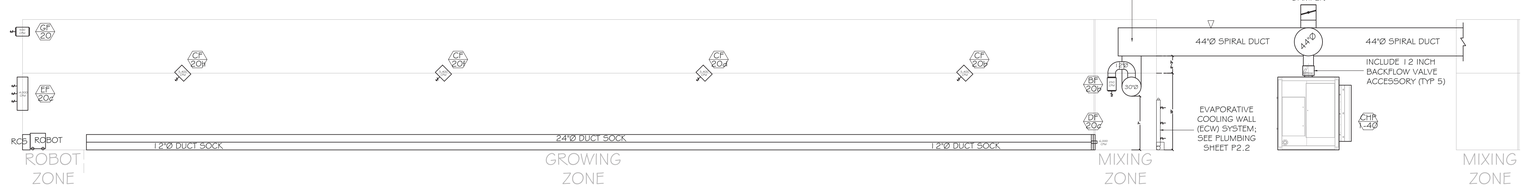
Capstone Green Energy

FAN SCHEDULE

TAG	LOCATION	SERVICE	TYPE	QUAN	BASIS OF DESIGN		PERFORMANCE			NOTES & ACCESSORIES	STRUCTURAL	ELECTRICAL			
					MFG	MODEL (SIZE)	AIRFLOW RATE	STATIC PRESSURE	SPEED		WEIGHT	MOTOR	V/PH/HZ	POWER	RLA (FLA)
BF 20a-20b	GREENHOUSE HOOP 20	GREENHOUSE HOOP 20	CENTRIFUGAL SQUARE INLINE BELT DRIVE SINGLE SPEED	2	COOK	1355QN17D081VF	250 CFM	0.8 IN WC	1,389 RPM	1, 2, 3, 4 & 5	92 LBS	1/6 HP	230/1/60	0.121 HP	1.6 A
GF 20	GREENHOUSE HOOP 20	GREENHOUSE HOOP 20	CENTRIFUGAL SQUARE INLINE DIRECT DRIVE EC VARI-FLOW MOTOR	1	COOK	1205QN17D(VF)	500 CFM	0.15 IN WC	695 RPM	1, 2, 3, 4 & 5	78 LBS	1/8 HP	230/1/60	0.026 HP	1.2 A
DF 20a-20b-20c	GREENHOUSE HOOP 20	GREENHOUSE HOOP 20	PROPELLER FAN BELT DRIVE SINGLE SPEED	3	COOK	24XLW	6,000 CFM	0.20 IN WC	911 RPM	1, 3 & 7	161 LBS	3/4 HP	230/1/60	0.654 HP	(6.9 A)
CF 20a THRU 20h	GREENHOUSE HOOP 20	GREENHOUSE HOOP 20	AIR CIRCULATOR DIRECT DRIVE SINGLE SPEED	8	COOK	30CAC-1HPWD2	5,400 CFM	FREE AIR	1,725 RPM	1 & 8	50 LBS	1/3 HP	230/1/60	-	1.5 AMPS
EF 20a-20b-20c	GREENHOUSE HOOP 20	GREENHOUSE HOOP 20	PROPELLER FAN BELT DRIVE SINGLE SPEED	3	COOK	48XLW	14,000 CFM	0.15 IN WC	321 RPM	1, 3 & 9	341 LBS	1 HP	230/1/60	-	(8.0 A)

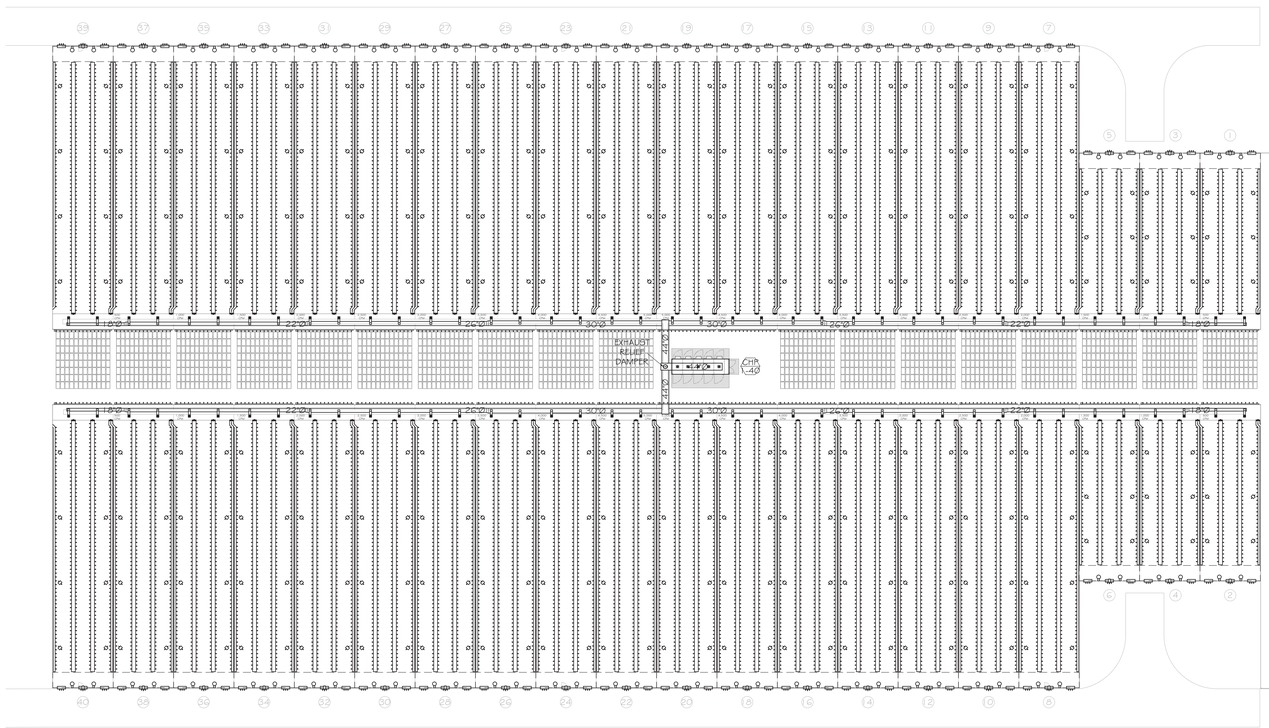
NOTES & ACCESSORIES
1. FANS & NECESSARY ACCESSORIES (FOR COMPLETE FUNCTIONALITY) SHALL BE INSTALLED PER MANUFACTURERS SPECIFICATIONS
2. INCLUDE FAN MOUNTED SPEED CONTROL
3. INCLUDE DISCONNECT NEMA 1 PRE-WIRED
4. INCLUDE BACKDRAFT DAMPER
5. INCLUDE MOTOR CONTROL COVER
6. INCLUDE RUBBER ISOLATORS, SET OF 4
7. INCLUDE WALL COLLAR
8. INCLUDE WALL MOUNT
9. INCLUDE GRAVITY SHUTTER

NOTE THAT QUANTITIES ARE PER HOOP HOUSE; PHASE ONE HAS (40) HOOP HOUSES; NOTE THAT HOOPS 1 THRU 6 ONLY HAVE (6) CIRCULATING FANS, NOT (8)



GREENHOUSE SECTION - HOOP 20

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



CONTROL SEQUENCE OF OPERATIONS

IF THEN STATEMENT REGARDING

SPACE TEMERATURE
VS
BOOSTER FAN & GABLE FAN
VS
DUCT FANS

&

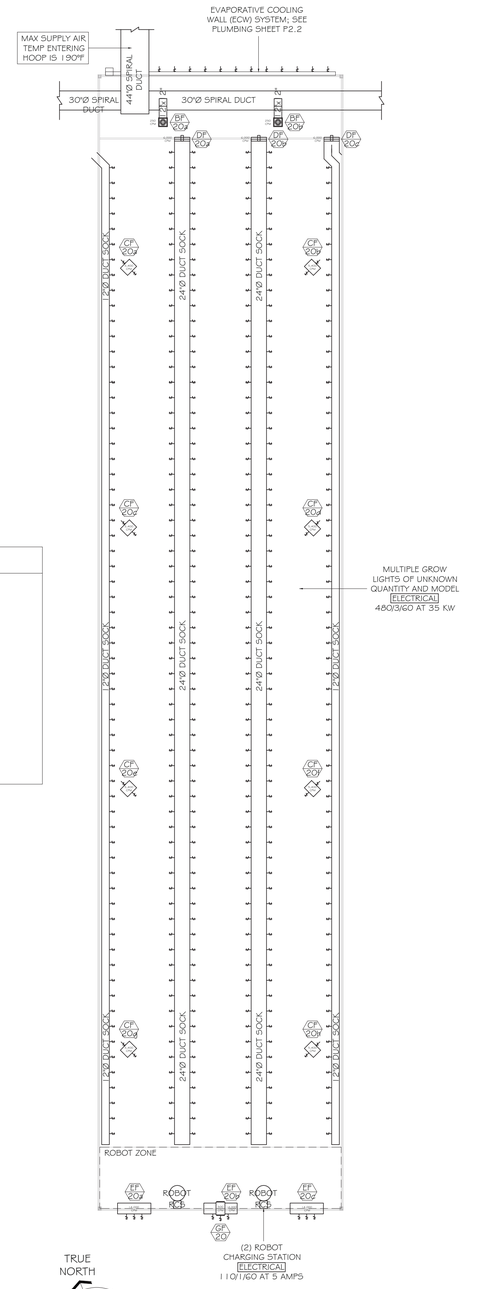
EXHAUST RELIEF DAMPER

IMPORTANT GROW LIGHT NOTES
ONLY 13-14 HOOP HOUSES OPERATE THE LIGHTS AT ANY GIVEN TIME

TRUE NORTH
BUILDING NORTH

GREENHOUSE PLAN - HOOPS 1 THRU 40

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



TRUE NORTH
BUILDING NORTH

GREENHOUSE PLAN - HOOP 20

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

SEED
SANTA CRUZ INC
SUSTAINABLE ENVIRONMENT ENGINEERED DESIGN

130 Pearl Alley
Santa Cruz, CA 95060
Contact: Scott Shelton
scottshelton@seedscca.com
www.seedscca.com

PRELIMINARY * NOT FOR CONSTRUCTION * ISSUE FOR COORDINATION PERMITTING BIDDING REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA

PROJECT INFORMATION	
CLIENT:	HIPPO HARVEST
NUMBER:	250008
START DATE:	2.20.2025
DRAWN BY:	STS
CHECKED BY:	STS

NEW CONSTRUCTION FOR:

HIPPO HARVEST HOLLISTER

2370 SHORE ROAD
HOLLISTER, CA 95023

DRAWINGS & REVISIONS		
NO	DESCRIPTION	DATE
-	MECHANICAL BID SET	6.5.2025
-	PLUMBING BID SET	6.6.2025
-	MECHANICAL BID SET REV	6.24.2025
-	MECH-PLUMB BID SET REV	6.27.2025
-	-	-
-	-	-
-	-	-
-	-	-

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MECHANICAL
GREENHOUSE PLAN & EQUIPMENT SCHEDULES

SHEET: M2.2

BID SET #1 - ADDENDUM 2

PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE	QUAN	BASIS OF DESIGN MFG	BASIS OF DESIGN MODEL	NOTES & ACCESSORIES	FIXTURE SIZING COLD WATER BRANCH	FIXTURE SIZING HOT WATER BRANCH	FIXTURE SIZING WASTE MINIMUM TRAP ARM	FIXTURE SIZING WASTE BRANCH	FIXTURE SIZING VENT BRANCH	FIXTURE UNITS COLD WATER	FIXTURE UNITS HOT WATER	FIXTURE UNITS WASTE & VENT
WC-1	WATER CLOSET (FLUSHOMETER) COLD WATER	7	AMERICAN STANDARD TOILET AMERICAN STANDARD VALVE	MADERA 15" HEIGHT ELONGATED (3451.660) W/ SELECTRONIC TOP SPUD & COLOR WHITE; INCLUDE EXTRA HEAVY DUTY OPEN FRONT LESS COVER (5905.100)	WATER CLOSET SHALL BE ADA COMPLIANT & LOW FLUSH 1.28 GPF (CODE IS 1.28 GPF MAX)	3/4"	-	3"	3"	2"	SEE PO.1	-	4.0
UR-1	URINAL (FLUSHOMETER) COLD WATER	3	AMERICAN STANDARD URINAL AMERICAN STANDARD VALVE	PINTBROOK (6002.001) & COLOR WHITE; INCLUDE SELECTRONIC SENSOR TOP SPUD (6063.013.002) W/ BATTERY POWER	URINAL SHALL BE ADA COMPLIANT & LOW FLUSH 0.125 GPF (CODE IS 0.125 GPF MAX)	3/4"	-	2"	2"	2"	SEE PO.1	-	2.0
LV-1	LAVATORY (COUNTER) COLD & HOT WATER	4	KOHLER SINK KOHLER FAUCET	LADENA RETANGULAR IN COUNTER SINK (K-2215) & COLOR WHITE; INCLUDE FAUCET W/ KINESIS SENSOR, AC-POWER (K-10353G-SANA)	LAVATORY SHALL BE ADA COMPLIANT & LOW FLOW 0.5 GPM (CODE IS 0.5 GPM MAX)	1/2"	1/2"	1-1/4"	1-1/2"	1-1/2"	1.0	1.0	1.0
KS-1	KITHCEN SINK COLD & HOT WATER	1	ELKAY SINK KOHLER FAUCET	LUSTERTONE CLASSIC RETANGULAR IN COUNTER SINK (ELUHAD281655PD) & STAINLESS STEEL; INCLUDE PULL-OUT FAUCES W/ THREE FUNCTION SPARYHEAD (K-7505)	KITCHEN SINK SHALL BE LOW FLOW 1.5 GPM (CODE IS 1.5 GPM MAX)	1/2"	1/2"	1-1/2"	2"	1-1/2"	1.0	1.0	2.0
HS-1	HAND SINK COLD & HOT WATER	4	REGENCY SINK T45 FAUCET	WALL MOUNTED HAND SINK (600HS1172H) & STAINLESS STEEL; INCLUDE DUAL LEVER SWIVEL GOOSENECK FAUCET (B-1115-132XNSCR)	HAND SINK SHALL BE ADA COMPLIANT & LOW FLOW 0.5 GPM (CODE IS 2.2 GPM MAX)	1/2"	1/2"	1-1/4"	1-1/2"	1-1/2"	1.0	1.0	1.0
LS-1	LAB SINK COLD & HOT WATER	1	ELKAY SINK KOHLER FAUCET	LUSTERTONE CLASSIC RETANGULAR IN COUNTER SINK (ELUHAD281655PD) & STAINLESS STEEL; INCLUDE PULL-OUT FAUCES W/ THREE FUNCTION SPARYHEAD (K-7505)	LAB SINK SHALL BE LOW FLOW 1.5 GPM (CODE IS 1.5 GPM MAX)	1/2"	1/2"	1-1/2"	2"	1-1/2"	1.0	1.0	2.0
SS-1	SERVICE SINK (FLOOR) COLD & HOT WATER	2	KROWNE SINK KROWNE FAUCET	ONE COMPARTMENT STAINLESS STEEL FLOOR (MS-2424) 8" CENTER W/ 6.5" SPOT AND WALL ANCHOR (16-127)	SERVICE SINK SHALL HAVE BACKFLOW PREVENTER 3.0 GPM	1/2"	1/2"	2"	2"	2"	1.5	1.5	3.0
ES-1	EMERGENCY SHOWER & EYE WASH COLD WATER	2	BRADLEY	519-310	SHOWER INCLUDES 22 GPM FLOW CONTROL DEVICE	3/4"	-	-	-	-	2.0	-	-
DW-1	DISHWASHER HOT WATER	1	SUMMIT	DW2435SSADA	-	-	1/2"	1-1/2"	2"	1-1/2"	-	1.5	2.0
HB-1	HOSE BIB COLD WATER	13	BRADLEY	7910 (IN-WALL UNIT)	HOSE BIB SHALL INCLUDE ANTI-SIPHON DEVICE	1/2"	-	-	-	-	2.5 (1.0 ADD)	-	-
TP-1 TP-2	TRAP PRIMER COLD WATER	3 1	PPP PPP	PR-500 PR-500+DU-U (2-IN-1)	CONNECT TO (1) FLOOR DRAIN CONNECT TO (2) FLOOR DRAINS	1/2"	-	-	-	-	0.2	-	-
HA-1	WATER HAMMER ARRESTOR	2	SIOUX CHIEF	650 SERIES	-	-	-	-	-	-	-	-	-
FS-1	FLOOR SINK (SQUARE)	5	WATTS	FS-850 (16"x16" W/ FULL GRATE 13"x13")	FLOOR SINK SIZE SHALL MATCH CONNECTED SANITARY WASTE PIPE SIZE	-	-	MATCH	MATCH	2"	-	-	3.0
FD-1	FLOOR DRAIN (SQUARE)	5	WATTS	FD-100-M (STRAINER SIZE 5"x5")	FLOOR DRAIN SIZE SHALL MATCH CONNECTED SANITARY WASTE PIPE SIZE	-	-	MATCH	MATCH	2"	-	-	2.0
FD-2	FLOOR DRAIN (SQUARE)	4	WATTS	FD-100-M (STRAINER SIZE 8"x8")	FLOOR DRAIN SIZE SHALL MATCH CONNECTED SANITARY WASTE PIPE SIZE	-	-	MATCH	MATCH	2"	"	"	2.0
CO-1 CO-2	FLOOR CLEANOUT WALL CLEANOUT	12 5	WATTS WATTS	CO-200-R CO-380-RD	CLEANOUT SIZE SHALL MATCH CONNECTED SANITARY WASTE PIPE SIZE	-	-	-	MATCH	-	-	-	-

NOTES & ACCESSORIES
1. PLUMBING FIXTURES & NECESSARY ACCESSORIES (FOR COMPLETE FUNCTIONALITY) SHALL BE INSTALLED PER MANUFACTURERS SPECIFICATIONS
2. SHALL INCLUDE POINT OF USE THERMOSTATIC MIXING VALVE (TMV) SET TO 120°F MAX FOR ALL LAVATORIES & HAND SINKS; SEE P4.0 FOR DETAIL

WATER HEATER SCHEDULE

TAG	LOCATION	SERVICE	TYPE	QUAN	BASIS OF DESIGN MFG	BASIS OF DESIGN MODEL	INPUT RATE	FLOW RATE @ 67°F RISE	EFFICIENCY	NOTES & ACCESSORIES	STRUCTURAL WEIGHT	ELECTRICAL V/PH/HZ	ELECTRICAL POWER	ELECTRICAL AMPS
WH 1	ABOVE LID TOILET ROOM	ENTIRE DHW SYSTEM	TANKLESS, GAS CONDENSING, W/ INTERNAL RECIRC PUMP	1	NAVIEN	NPE-240A2	199,900 BTU/HR	5.6 GPM	0.95 UEF	1, 2, 3, 4 & 5	77 LBS	120/1/60	350 WATTS	4 AMPS

NOTES & ACCESSORIES
1. WATER HEATER & NECESSARY ACCESSORIES (FOR COMPLETE FUNCTIONALITY) SHALL BE VERIFIED AS INSTALLED PER MANUFACTURERS SPECIFICATIONS
2. INCLUDE REMOTE CONTROLLER
3. INCLUDE PLUMB EASY VALVE SET
4. INCLUDE CONDENSATE NEUTRALIZER
5. SET SUPPLY TEMPERATURE AT 120°F (ADJ)

EXPANSION TANK SCHEDULE

TAG	LOCATION	SERVICE	TYPE	QUAN	BASIS OF DESIGN MFG	BASIS OF DESIGN MODEL	SYSTEM MAX VOLUME	SYSTEM MAX PRESSURE	SYSTEM MAX TEMP	NOTES & ACCESSORIES	STRUCTURAL WEIGHT
ET 1	ABOVE LID TOILET ROOM	ENTIRE DHW SYSTEM	BLADDER	1	ELBI	DXT-8	75 GAL	90 PSIG	140°F	1 & 2	634 LBS

NOTES & ACCESSORIES
1. EXPANSION TANK & NECESSARY ACCESSORIES (FOR COMPLETE FUNCTIONALITY) SHALL BE VERIFIED AS INSTALLED PER MANUFACTURERS SPECIFICATIONS
2. INCLUDE UNION & ISOLATION VALVE AT EXPANSION TANK

BOOSTER PUMP SCHEDULE

TAG	LOCATION	SERVICE	TYPE	QUAN	BASIS OF DESIGN MFG	BASIS OF DESIGN MODEL	SYSTEM MAX FLOW	SYSTEM MAX HEAD	SYSTEM MAX PRESSURE	NOTES & ACCESSORIES	STRUCTURAL WEIGHT	ELECTRICAL V/PH/HZ	ELECTRICAL POWER	ELECTRICAL AMPS
BP a-1	ADJACENT FIRE WATER TANK	PLANT WATER AND EVAP COOL WATER	MULTI-STAGE BOOSTER	2	LEADER	ECOPLUS/ INOXPLUS 250	27 GPM	197 FT	85 PSI	1 & 2	27.4 LBS	115/1/60	1 HP	13.0 A

NOTES & ACCESSORIES
1. PUMP & NECESSARY ACCESSORIES (FOR COMPLETE FUNCTIONALITY) SHALL BE INSTALLED PER MANUFACTURERS SPECIFICATIONS
2. INCLUDE UNION & ISOLATION VALVE ON EITHER SIDE OF PUMP

PUMP SIZE MAY NEED TO INCREASE BASED ON HIGHER FLOW RATE AT RO UNIT

PRESSURE VESSEL SCHEDULE

TAG	LOCATION	SERVICE	TYPE	QUAN	BASIS OF DESIGN MFG	BASIS OF DESIGN MODEL	SYSTEM CAPACITY	SYSTEM DIAMETER	SYSTEM PRECHARGE	SYSTEM MAX PRESSURE	NOTES & ACCESSORIES	STRUCTURAL WEIGHT
PV a-1 P4-1.60	ADJACENT FIRE WATER TANK	DOMESTIC WATER TO MAIN BUILDING	DIAPHRAM ROLLED STEEL	4	WWT	FLEX2PRO	85 GAL	26 INCH	38 PSI	125 PSI	1 & 2	121 LBS

NOTES & ACCESSORIES
1. PUMP & NECESSARY ACCESSORIES (FOR COMPLETE FUNCTIONALITY) SHALL BE INSTALLED PER MANUFACTURERS SPECIFICATIONS
2. INCLUDE UNION & ISOLATION VALVE ON EITHER SIDE OF PUMP

SOLID SEPARATOR SCHEDULE

TAG	LOCATION	SERVICE	TYPE	QUAN	BASIS OF DESIGN MFG	BASIS OF DESIGN MODEL	MAX FLOW	LIQUID CAPACITY	SOLIDS CAPACITY	INLET / OUTLET SIZES	NOTES & ACCESSORIES	STRUCTURAL WEIGHT
SS a-1	FLUSH IN CONCRETE	FLOOR SINKS	BAFFLE STRUCTURE	2	THERMACO TRAPZILLA	TSS-27-ECA	35 GPM	27 GAL	27 GAL	3 IN 3 IN	1, 2, 3, 4 & 5	UNKNOWN

NOTES & ACCESSORIES
1. GREASE INTERCEPTOR & NECESSARY ACCESSORIES (FOR COMPLETE FUNCTIONALITY) SHALL BE INSTALLED PER MANUFACTURERS SPECIFICATIONS
2. INCLUDE VENTS PER MANUFACTURER RECOMMENDATIONS
3. INCLUDE CLEANOUTS PER MANUFACTURER RECOMMENDATIONS
4. INCLUDE EXTENSION COLLAR MODEL ECA-TSS-29 (INCLUDED WITH THIS MODEL NUMBER)
5. INCLUDE DIAMOND PLATE COVER

SHEET INDEX

P0.0 - PLUMBING SCHEDULES & SYMBOLS/ABBREVS
P0.1 - PLUMBING NOTES & CALCULATIONS

P2.0 - PLUMBING FLOOR PLAN
P2.1 - PLUMBING ROOF PLAN
P2.2 - PLUMBING GREENHOUSE PLAN & EQUIPMENT SCHEDULES

P4.0 - PLUMBING DETAILS

CODE REQUIREMENTS

ALL WORK SHALL COMPLY W/ ALL APPLICABLE STATE & LOCAL CODES AND/OR AUTHORITY HAVING JURISDICTION INCLUDING THE BELOW:

2022 CAL BUILDING CODE
2022 CAL ENERGY CODE
2022 CAL GREEN BUILDING CODE
2022 CAL ELECTRICAL CODE
2022 CAL FIRE CODE
2022 CAL MECHANICAL CODE
2022 CAL PLUMBING CODE

LOCATION & DETAIL SYMBOLS

LOCATION LETTER — X / P2.0 — DRAWING SHEET — LOCATION REFERENCE MARK

DETAIL NUMBER — # / P4.0 — DRAWING SHEET — DETAIL REFERENCE MARK

PLUMBING SYMBOLS

- AIR VENT
- A — COMPRESSED AIR PIPING
- H — CLEANOUT: WALL
- Ø — CLEANOUT: GRADE OR FLOOR
- CD — CONDENSATE DRAIN
- CONTINUATION LINE
- DIRECTION OF FLOW ARROW
- GSS — MAIN GROUND SOURCE HEAT SUPPLY
- GSR — MAIN GROUND SOURCE HEAT RETURN
- CCW — CONDITIONED: CHILLED COLD WATER
- CCWR — CONDITIONED: CHILLED COLD WATER RETURN
- HHW — CONDITIONED: HEATED HOT WATER
- HHWR — CONDITIONED: HEATED HOT WATER RETURN
- CW — DOMESTIC: COLD WATER
- HW — DOMESTIC: HOT WATER
- HWR — DOMESTIC: HOT WATER RETURN
- EXISTING TO BE REMOVED
- FLOOR DRAIN
- FS — FLOOR SINK
- FIRE — FIRE WATER
- GAS — GAS: LOW PRESSURE, NATURAL or PROPANE
- MPG — GAS: MEDIUM PRESSURE
- LPG — GAS: LIQUIFIED PETROLEUM
- GAUGE: PRESSURE GAUGE
- GAUGE: TEMPERATURE GAUGE
- R — GAS PRESSURE REGULATOR
- GW — GREASE WASTE
- HEAT TRACE TAPE OVER PIPE
- HOSE BIBB
- OF — OVERFLOW PIPING
- PIPE: BRANCH DOWN
- PIPE: BRANCH UP
- PIPE: CAP
- PIPE: ELBOW DOWN
- PIPE: ELBOW UP
- PITCH DOWN IN DIRECTION OF FLOW
- POINT OF CONNECTION
- PUMP
- RWL — RAIN WATER LEADER PIPING
- STORM — STORM PIPING
- STRAINER
- STRAINER WITH VALVED DRAIN
- WATER HAMMER ARRESTER
- TRAP PRIMER
- TP — TRAP PRIMER PIPING
- UNION
- VALVE: ANGLE
- VALVE: 2-WAY MOTORIZED CONTROL
- VALVE: 3-WAY MOTORIZED CONTROL
- VALVE: CALIBRATED BALANCE
- VALVE: CIRCUIT SETTER
- VALVE: CHECK
- VALVE: GAS COCK
- VALVE: GAS SEISMIC
- VALVE: ISOLATION
- VALVE: PRESSURE REDUCING (WATER)
- VALVE: PRESSURE REGULATING (GAS)
- VALVE: THERMOSTATIC MIXING
- VALVE: SAFETY RELIEF
- VALVE: THROTTLING (BALL)
- VALVE IN RISE or DROP
- VP — VENT PIPING
- WALL HYDRANT
- IW — WASTE: INDIRECT INC CONDENSATE
- SW — WASTE: SANITARY
- GW — WASTE: GREASE
- WATER HAMMER ARRESTER
- EXISTING TO BE DEMOLISHED

NOTE: NOT ALL SYMBOLS MAY BE USED

PLUMBING ABBREVIATIONS

Ø	DIAMETER or PHASE
A	COMPRESSED AIR
ABC	ABOVE CEILING
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AP	ACCESS PANEL
ARCH	ARCHITECT
BF	BELOW FLOOR
BG	BELOW GRADE
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
CBV	CALIBRATED BALANCE VALVE
CD	CONDENSATE DRAIN
CFF	CAP FOR FUTURE
CFH	CUBIC FEET OF GAS PER HOUR
CLG	CEILING
CO	CLEANOUT
CONT	CONTINUATION
CW	DOMESTIC COLD WATER
(D)	DROP
DR	DRAIN
DWG	DRAWING
(E)	EXISTING
EA	EACH
ELEC	ELECTRICAL
EWT	ENTERING WATER TEMPERATURE
F	FIRE WATER
FA	FROM ABOVE
FB	FROM BELOW
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FF	FINISHED FLOOR
FLA	FULL LOAD AMPS
FLR	FLOOR
FPM	FEET PER MINUTE
FS	FLOOR SINK
FSR	FIRE SPRINKLER RISER
FT	FEET
FUT	FUTURE
G	GAS
GA	GAUGE
GAL	GALLONS
GCO	GRADE CLEANOUT
GPM	GALLONS PER MINUTE
GPR	GAS PRESSURE REGULATOR
GSM	GALVANIZED SHEET METAL
GSV	GAS SEISMIC VALVE
GW	GREASE WASTE
HB	HOSE BIBB
HD	HEAD
HP	HORSEPOWER
HR	HOUR
HT	HEIGHT
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RETURN
HZ	HERTZ
IE	INVERT ELEVATION
IN	INCH
JB	JUNCTION BOX
KW	KILOWATT
LBS	POUNDS
LPG	LIQUIFIED PETROLEUM GAS
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	THOUSAND BTU PER HOUR
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM or MINUTE
MPG	MEDIUM PRESSURE GAS
(N)	NEW
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
OF	OVERFLOW
OH	OVERHEAD
P&TRV	PRESSURE & TEMPERATURE RELIEF VALVE
PD	PRESSURE DROP
PLMB	PLUMBING
POC	POINT OF CONNECTION
PRV	PRESSURE REDUCING VALVE
PSI(G)	POUNDS PER SQUARE INCH (GAUGE)
QTY	QUANTITY
(R)	RISE
(RL)	RELOCATE
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
RV	RELIEF VALVE
RWL	RAINWATER LEADER
PSI(G)	POUNDS PER SQUARE INCH (GAUGE)
SD	STORM DRAIN
SF	SQUARE FEET
SIM	SIMILAR
SP	STATIC PRESSURE
SPEC	SPECIFICATIONS
SS	SANITARY SEWER or STAINLESS STEEL
STD	STANDARD
TA	TO ABOVE
TB	TO BELOW
TEMP	TEMPERATURE
TP	TRAP PRIMER
TYP	TYPICAL
UD	UNDERDRAIN
UF	UNDER FLOOR
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
V	VENT or VOLTS
VTR	VENT THROUGH ROOF
W	WASTE or WATTS
WCO	WALL CLEANOUT
WT	WEIGHT

NOTE: NOT ALL ABBREVIATIONS MAY BE USED.

SEED
SANTA CRUZ INC
SUSTAINABLE ENVIRONMENT ENGINEERED DESIGN

130 Pearl Alley
Santa Cruz, CA 95060
Contact: Scott Shelton
scottshelton@seedscca.com
www.seedscca.com

REGISTERED PROFESSIONAL ENGINEER — PRELIMINARY — NOT FOR CONSTRUCTION — PERMITTING — BIDDING — STATE OF CALIFORNIA

PROJECT INFORMATION	
CLIENT:	HIPPO HARVEST
NUMBER:	250008
START DATE:	2.20.2025
DRAWN BY:	STS
CHECKED BY:	STS

NEW CONSTRUCTION FOR:

HIPPO HARVEST HOLLISTER

2370 SHORE ROAD
HOLLISTER, CA 95023

DRAWINGS & REVISIONS		
NO	DESCRIPTION	DATE
-	MECHANICAL BID SET	6.5.2025
-	PLUMBING BID SET	6.6.2025
-	MECHANICAL BID SET REV1	6.24.2025
-	MECH-PLUMB BID SET REV2	6.27.2025
-	-	-
-	-	-
-	-	-
-	-	-

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PLUMBING
SCHEDULES & SYMBOLS/ABBREVS

SHEET: P0.0

BID SET #1 - ADDENDUM 2

WATER SUPPLY & SANITARY WASTE CONVEYANCE CALCULATIONS

PROJECT IS HIPPO HARVEST
ADDRESS IS 2370 SHORE ROAD, HOLLISTER, CA 95023

WATER SUPPLY INFO
WATER PROVIDED BY FIRE WATER TANK, BOOSTER PUMP AND PRESSURE VESSELL
WATER SUPPLY STATIC PRESSURE AT PRESSURE PUMP IS 60 PSI (COMMON SETTING 40/60)
DISTANCE FROM PRESSURE PUMP AND FURTHEST FIXTURE IS LESS THAN 500FT

PROPOSED FIXTURES

FIXTURE TYPE	QTY	WATER SUPPLY - WSFU[1]						SANITARY DRAINAGE[1]	
		COLD[2]	HOT[2]	DEMAND	TOTAL COLD	TOTAL HOT	TOTAL DEMAND	DFU	TOTAL DFU
WATER CLOSET (FLUSHOMETER)	7	SEE TABLE	0.0	0.0	135.0	0.0	135.0	4.0	28.0
URINAL (FLUSHOMETER)	3	SEE TABLE	0.0	0.0	45.0	0.0	45.0	2.0	6.0
LAVATORY	4	1.0	1.0	1.0	4.0	4.0	4.0	1.0	4.0
KITCHEN SINK	1	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.0
HAND SINK	4	1.0	1.0	1.0	4.0	4.0	4.0	1.0	4.0
LAB SINK	1	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.0
SERVICE SINK	2	1.5	1.5	1.5	3.0	3.0	3.0	3.0	6.0
EMERGENCY SHOWER & EYE WASH	2	2.0	0.0	2.0	4.0	0.0	4.0	0.0	0.0
DISHWASHER	1	0.0	1.5	1.5	0.0	1.5	1.5	2.0	2.0
HOSE BIB	1	2.5	0.0	2.5	2.5	0.0	2.5	0.0	0.0
HOSE BIB (EACH ADDITIONAL)	12	1.0	0.0	1.0	12.0	0.0	12.0	0.0	0.0
TRAP PRIMER	4	0.2	0.0	0.2	0.8	0.0	0.8	0.0	0.0
FLOOR SINK	5	0.0	0.0	0.0	0.0	0.0	0.0	3.0	15.0
FLOOR DRAIN	9	0.0	0.0	0.0	0.0	0.0	0.0	2.0	18.0
TOTALS					**213.3**	**15.5**	**214.8**		**87.0**
RULE 3/4 OF TOTAL[2]					**160.0**	**11.6**	**161.1**		
REQUIRED PIPE SIZE[3]						**1"**	**2"**		**4"**
DESIGNED PIPE SIZE						**1"**	**2"**		**4"**

CODE SIZING INFORMATION
[1]FIXTURE UNITS ARE BASED ON 2022 CPC TABLE 610.3 OR TABLE A2.1 (WATER SUPPLY) & TABLE 702.1 (SANITARY DRAINAGE)
[2]SEPARATE HOT & COLD WATER FIXTURE UNITS ARE TAKEN AS 3/4 OF TOTAL FIXTURE DEMAND, next line
PER 2022 CPC TABLE 610.3 (NOTE 3) OR TABLE A2.1 (NOTE 3)
[3]PIPE SIZES ARE BASED ON 2022 CPC TABLE 610.4, **PRESSURE RANGE 46-60 PSI (WATER SUPPLY)** & TABLE 703.2 (SANITARY DRAINAGE)

HIGH PRESSURE NATURAL GAS SUPPLY CALCULATIONS

PROJECT IS HIPPO HARVEST
ADDRESS IS 2370 SHORE ROAD, HOLLISTER, CA 95023

NATURAL GAS SUPPLY INFO
NATURAL GAS PROVIDED BY CITY FROM EAST END OF PROPERTY — GAS METER
HIGH PRESSURE REGULATOR AT ENTRY TO PROPERTY SET TO 80 PSI (ADJ) — NOT APPLICABLE
LOW PRESSURE REGULATOR AT MAIN BUILDING SET TO 13.0 IN WC (ADJ)

PROPOSED PROJECT APPLIANCES & EQUIPMENT

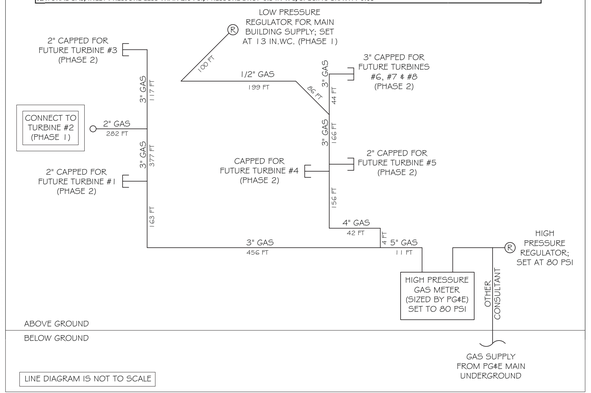
UNIT TYPE	DISTANCE FROM HIGH PRESSURE REGULATOR (FT)	GAS INPUT (BTU/HR)	GAS INPUT (CFH)	REQUIRED PIPE SIZE (IN)	SPECIFIC NOTES
MICROTURBINE UNIT #1	920	11,400,000	11,229.00	2"	
MICROTURBINE UNIT #2 (PHASE 1)	1280	11,400,000	11,229.00	2"	
MICROTURBINE UNIT #3	1640	11,400,000	11,229.00	2"	
SUB-TOTAL	**1640**	**34,200,000.00**	**33,687.00**	**3"**	**MAIN SUPPLY TO WEST MAIN SUPPLY**
MICROTURBINE UNIT #4	360	11,400,000	11,229.00	1.5"	INSTALL 2" FOR CONSISTENCY
MICROTURBINE UNIT #5	580	11,400,000	11,229.00	2"	
BUILDING LOW PRESSURE REG	740	199,900	196.90	0.5"	
MICROTURBINE UNIT #6	935	11,400,000	11,229.00	2"	
MICROTURBINE UNIT #7	1150	11,400,000	11,229.00	2"	
MICROTURBINE UNIT #8	1300	11,400,000	11,229.00	2"	
SUB-TOTAL	**1300**	**57,199,900.00**	**56,341.90**	**4"**	**MAIN SUPPLY TO EAST MAIN SUPPLY**
TOTAL	**1640**	**91,399,900.00**	**90,028.90**	**5"**	**MAIN SUPPLY AT GAS METER**

SIZING IS BASED ON NFPA 54 — INITIAL PRESSURE 80 PSI
ANSI Z223.1 – 2024 NATIONAL FUEL GAS CODE — FINAL PRESSURE 75 PSI
CHAPTER 6.4 SIZING EQUATION 6.4.2 HIGH PRESSURE GAS

PROPOSED BUILDING APPLIANCES & EQUIPMENT

UNIT TYPE	DISTANCE FROM LOW PRESSURE REGULATOR (FT)	GAS INPUT (BTU/HR)	GAS INPUT (CFH)	REQUIRED PIPE SIZE (IN)	SPECIFIC NOTES
INSTANT WATER HEATER	120	199,900	196.90	1-1/4"	
TOTAL	120	199,900	196.90	1-1/4"	MAIN SUPPLY INTO BUILDING

SIZING IS BASED ON 2022 CPC TABLE 1215.2(1)
FOR SCHEDULE 40 METALLIC PIPE
NATURAL GAS, INLET PRESSURE LESS THAN 2.0 PSI; PRESSURE DROP 0.5 IN WC; SPECIFIC GRAVITY 0.60



LINE DIAGRAM IS NOT TO SCALE

PLUMBING MATERIAL NOTES

DOMESTIC WATER PIPING
ALL WATER SERVICE COLD & HOT WATER PIPING SHALL BE COPPER TYPE "L."

CONDENSATE AND INDIRECT WASTE PIPING
ALL CONDENSATE & INDIRECT WASTE PIPING SHALL BE COPPER TYPE "M."

CONDENSATE OR DRAIN PAN OVERFLOW PIPE CAN BE PVC WHERE APPROPRIATE BUT MUST BE PRE-APPROVED.

NATURAL GAS PIPING
ALL BELOW GRADE NATURAL GAS PIPING SHALL BE IAPMO APPROVED FOR GAS POLYETHYLENE OR SCHEDULE 40 BLACK STEEL.

ALL ABOVE GRADE NATURAL GAS PIPING SHALL BE SCHEDULE 40 METALLIC PIPE.

SANITARY WASTE & VENT PIPING
ALL ABOVE & BELOW GRADE, HORIZONTAL & VERTICAL SANITARY WASTE & VENT PIPING SHALL BE HUBLESS CAST IRON.

BELOW GROUND SANITARY WASTE CAN BE ABS OR PVC WHERE APPROPRIATE BUT MUST BE PRE-APPROVED.

PRESSURE TESTING NOTES

TESTING SHALL OCCUR AND BE INSPECTED PRIOR TO ENCLOSING AND COVERING ALL JOINTS.

DOMESTIC WATER PIPING
TEST W/ WATER AT 100 PSIG FOR 4 HOURS. VERIFY NO VISIBLE DROP IN GAUGE PRESSURE.

NATURAL GAS PIPING
TEST W/ AIR AT 15 PSIG FOR 4 HOURS, INSPECT ALL NEW AND EXISTING JOINTS BY SPRAYING WITH SOAP SOLUTION; MAY DIFFER WITH HIGH PRESSURE GAS PIPING; VERIFY WITH INSTALLING CONTRACTOR

SANITARY WASTE & VENT PIPING
FILL SYSTEM TO HIGHEST POINT (VENT RISER) FOR 4 HOURS. VISUALLY INSPECT ALL JOINTS AND VERIFY NOT DROP IN WATER LEVEL.

PLUMBING GENERAL NOTES

THIS PROJECT IS CONSIDERED A NEW CONSTRUCTION PROJECT, BUT THERE MAY BE SOME EXISTING CONDITIONS WHICH WILL REQUIRED TO INTERFACE WITH NEW EQUIPMENT. ALL REPRESENTATIONS OF EXISTING CONDITIONS ARE BASED ON LIMITED OWNER-FURNISHED DOCUMENTATION AND LIMITED FIELD VERIFICATION.

PRIOR TO BEGINNING CONSTRUCTION OR ORDERING EQUIPMENT CONTRACTOR SHALL VISIT THE SITE AND PERFORM OWN FIELD INVESTIGATIONS TO DETERMINE ACTUAL EXISTING CONDITIONS INCLUDING UTILITIES, EQUIPMENT, AND ANY OBSTRUCTIONS.

PRIOR TO BEGINNING CONSTRUCTION CONTRACTOR SHALL CAMERA AND CLEAN EXISTING MAIN 4" SANITARY WASTE LINE. SHALL BE VERIFIED THAT SANITARY WASTE LINE IS STRUCTURALLY SOUND AND CAN BE REUSED.

PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL PROVIDE A SCHEDULE WITH MAJOR MILESTONES.

ALL NEW CONSTRUCTION WORK SHOWN AS NEW SHALL BE SUPPLIED AS NEW UNLESS OTHERWISE NOTED AS EXISTING (E) OR RELOCATED (RL).

SUBMITTALS ARE REQUIRED FOR THIS PROJECT. ALL PROJECT SPECIFIC EQUIPMENT SUBMITTALS FROM THE MANUFACTURER AND/OR SUPPLIER SHALL BE PROVIDED IN DIGITAL COPY TO THE OWNER (FOR REFERENCE) AND THE MECHANICAL ENGINEER (FOR APPROVAL) PRIOR TO INSTALL.

OPERATION AND MAINTENANCE MANUALS SHALL BE PROVIDED IN DIGITAL COPY TO THE OWNER (FOR REFERENCE) AND THE MECHANICAL ENGINEER (FOR REFERENCE) PRIOR TO PROJECT COMPLETION.

AS-BUILT DRAWINGS SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR IN DIGITAL COPY TO THE OWNER (FOR REFERENCE) AND THE MECHANICAL ENGINEER (FOR REFERENCE) PRIOR TO PROJECT COMPLETION. MARKUPS TO EXISTING & APPROVED DRAWINGS IS ACCEPTABLE.

THE DRAWINGS SHALL BE CONSIDERED DIAGRAMMATICAL AND ARE NOT INTENDED TO SHOW EVERY OFFSET, TRANSITION, OR FITTING. LOCATIONS OF ITEMS NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. EXACT LOCATIONS NECESSARY TO SECURE BEST CONDITIONS AND RESULTS SHALL BE DETERMINED BY THE CONTRACTOR AND SHALL HAVE THE FINAL APPROVAL OF THE ENGINEER.

HYDRONIC AND/OR HOT WATER RECIRCULATION SYSTEMS SHALL BE BALANCED PER PLUMBING DRAWINGS USING CIRCUIT SETTERS OR BALANCING VALVES.

PROVIDE MAINTENANCE ACCESS FOR ALL PLUMBING EQUIPMENT AND SYSTEM COMPONENTS. CONTRACTOR SHALL INSTALL ALL EQUIPMENT FOR CLEAR AND UNOBSTRUCTED ACCESS. MAINTENANCE TO EQUIPMENT IN SUSPENDED CEILING SYSTEMS SHALL BE THROUGH UNOBSTRUCTED AND EASILY REMOVABLE CEILING TILES. MAINTENANCE TO EQUIPMENT IN HARD CEILINGS AND WALLS SHALL BE THROUGH UNOBSTRUCTED ACCESS PANELS. NOT ALL ACCESS PANELS MAY BE SHOWN ON DRAWINGS.

ALL EQUIPMENT SHALL BE MOUNTED AND ATTACHED TO THE STRUCTURE SO THAT IT IS RESTRAINED IN THE EVENT OF SEISMIC ACTIVITY IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2019 CBC.

COORDINATE FINAL LOCATION OF PIPES, VALVES, DRAINS, CLEANOUTS, AND LARGE EQUIPMENT WITH ARCHITECTURAL & ELECTRICAL PLANS.

RUN ALL PIPES TRUE AND SQUARE TO BUILDING EXPOSURES & ELEMENTS.

SEE ARCHITECTURAL PLANS FOR EXACT LOCATIONS OF PLUMBING FIXTURES.

PIPE SIZES NOTED ON DRAWINGS ARE STANDARD PIPE DIMENSIONS. COORDINATE OUTSIDE DIMENSIONS (INCLUDING INSULATION) AND THROUGH WALL CLEARANCES WITH ARCHITECTURAL PLANS.

SANITARY WASTE PIPING & TRENCH DRAINS SHALL BE SLOPED AT 1/4" PER FOOT UNLESS OTHERWISE NOTED ON PLANS. IF AVAILABLE, SEE INVERT ELEVATIONS FOR CONNECTION HEIGHTS.

CONDENSATE (INDIRECT WASTE) SHALL BE SLOPED AT 1/8" PER FOOT UNLESS OTHERWISE NOTED ON PLANS.

PLUMBING VENTS THRU ROOF SHALL BE INSTALLED A MINIMUM OF 10FT FROM OUTSIDE AIR INTAKES AND A MINIMUM OF 4FT FROM ALL EXTERIOR WALLS.

ALL VALVES AND CLEANOUTS SHALL BE LINE SIZE UNLESS OTHERWISE NOTED ON PLANS.

ALL PIPING SHALL BE HUNG PER DETAIL AND SPACED PER TABLE 313.3 (HANGERS & SUPPORTS).

ALL HOT WATER PIPING SHALL BE INSULATED PER TABLE 120.3-A (PIPE INSULATION THICKNESS).

ALL EXPOSED PIPING SHALL BE CLEANED AND PREPARED FOR LABELING AND PAINTING.

ALL PIPING SHALL BE CLEARLY LABELED AND/OR COLOR CODED TO DESCRIBE WHAT IT CONTAINS.

PIPE HANGERS & SUPPORTS (TABLE 313.3)

MATERIALS	TYPES OF JOINTS	HORIZONTAL	VERTICAL
Cast	Lead and Caluers	5 feet, except 10 feet where 10 foot lengths are installed[1,2,3]	Base and each floor, not to exceed 15 feet
	Compression Gasket	Every other joint, unless over 4 feet then support each joint[1,2,3]	Base and each floor, not to exceed 15 feet
Cast-Iron Hubless	Shielded Coupling	Every other joint, unless over 4 feet then support each joint[1,2,3,4]	Base and each floor, not to exceed 15 feet
Copper & Copper Alloys	Soldered, Brazed, Threaded, or Mechanical	1/2 inches and smaller, 6 feet; 2 inches and larger, 10 feet	Each floor, not to exceed 10 feet[5]
Steel Pipe for Water or DWV	Threaded or Welded	1/2 inch and smaller, 10 feet; 1 inch and larger, 12 feet	Every other floor, not to exceed 25 feet[5]
Steel Pipe for Gas	Threaded or Welded	1/2 inch, 6 feet; 3/4 inch and 1 inch, 8 feet; 1 1/4 inches and larger, 10 feet	1/2 inch, 6 feet; 3/4 inch and 1 inch, 8 feet; 1 1/4 inches every floor level
Schedule 40 PVC and ABS DWV	Solvent Cemented	All sizes, 4 feet; allow for expansion every 30 feet[5]	Base and each floor, provide mid-story guides, provide for expansion every 30 feet
CPVC	Solvent Cemented	1 inch and smaller, 3 feet; 1 1/4 inches and larger, 4 feet	Base and each floor; provide mid-story guides
CPVC-AL-CPVC	Solvent Cemented	1/2 inch, 5 feet; 3/4 inch, 6ft inches; 1 inch, 6 feet	Base and each floor; provide mid-story guide
Lead	Wiped or Burned	Continuous Support	Not to exceed 4 feet
Steel	Mechanical	In accordance with standards acceptable to the Authority Having Jurisdiction	
PEX	Cold Expansion, Insert and Compression	1 inch and smaller, 32 inches; 1 1/4 inches and larger, 4 feet	Base and each floor; provide mid-story guides
PEX-AL-PEX	Metal Insert and Metal Compression	1/2 inch, 3/4 inch, 1 inch } All sizes 98 inches	Base and each floor; provide mid-story guides
PE-AL-PE	Metal Insert and Metal Compression	1/2 inch, 3/4 inch, 1 inch } All sizes 98 inches	Base and each floor; provide mid-story guides
PE-RT	Insert and Compression	1 inch and smaller, 32 inches; 1 1/4 inches and larger, 4 feet	Base and each floor; provide mid-story guides
Polypropylene (PP)	Fusion-weld (socket, butt, saddle, electrofusion), threaded (coarse threads only), or mechanical	1 inch and smaller, 32 inches; 1 1/4 inches and larger, 4 feet	Base and each floor; provide mid-story guides

For SI units: 1 inch = 25.4 mm, 1 foot = 304.8 mm.
Notes:

1. Support adjacent to joint, not to exceed 18 inches (457 mm).
2. Brace not to exceed 40 foot (12192 mm) intervals to prevent horizontal movement.
3. Support at each horizontal branch connection.
4. Hangers shall not be placed on the coupling.
5. Vertical water lines shall be permitted to be supported in accordance with recognized engineering principles with regard to expansion and contraction, where first approved by the Authority Having Jurisdiction.

PIPE INSULATION THICKNESS (TABLE 120.3-A)

FLUID OPERATING TEMPERATURE RANGE (°F)	INSULATION CONDUCTIVITY: CONDUCTIVITY (in Btu•in/h•ft² • °F)	INSULATION CONDUCTIVITY: MEAN RATING TEMPERATURE (°F)		NOMINAL PIPE DIAMETER (in inches): < 1	1 to < 1.5	1.5 to < 4	4 to < 8	8 and larger
Space heating and Service Water Heating Systems (Steam, Steam Condensate, Refrigerant, Space Heating, Service Hot Water)				Minimum Pipe Insulation Required (Thickness in inches or R-value)				
Above 350	0.32—0.34	250	Inches	4.5	5.0	5.0	5.0	5.0
			R-value	R-37	R-41	R-37	R-27	R-23
251—350	0.29—0.32	200	Inches	3.0	4.0	4.5	4.5	4.5
			R-value	R-24	R-34	R-35	R-26	R-22
201—250	0.27—0.30	150	Inches	2.5	2.5	2.5	3.0	3.0
			R-value	R-21	R-20	R-17.5	R-17	R-14.5
141—200	0.25—0.29	125	Inches	1.5	1.5	2.0	2.0	2.0
			R-value	R-11.5	R-11	R-14	R-11	R-10
105—140	0.22—0.28	100	Inches	1.0	1.5	1.5	1.5	1.5
			R-value	R-7.7	R-12.5	R-11	R-9	R-8
FLUID OPERATING TEMPERATURE RANGE (°F)	**INSULATION CONDUCTIVITY: CONDUCTIVITY (in Btu•in/h•ft² • °F)**	**INSULATION CONDUCTIVITY: MEAN RATING TEMPERATURE (°F)**		**Nominal Pipe Diameter (in inches): < 1**	**1 to < 1.5**	**1.5 to < 4**	**4 to < 8**	**8 and larger**
Space cooling systems (chilled water, refrigerant and brine)				Minimum Pipe Insulation Required (Thickness in inches or R-value)[1]				
40—60	0.21—0.27	75	Inches	Nonres 0.5 / Res 0.75	Nonres 0.5 / Res 0.75	1.0	1.0	1.0
			R-value	Nonres R-3 / Res R-6	Nonres R-3 / Res R-5	R-7	R-6	R-5
Below 40	0.20—0.26	50	Inches	1.0	1.5	1.5	1.5	1.5
			R-value	R-8.5	R-14	R-12	R-10	R-9

1. These thicknesses are based on energy efficiency considerations only. Issues such as water vapor permeability or surface condensation sometimes require vapor retarders or additional insulation.

DOMESTIC WATER DISINFECTION NOTES

AFTER PRESSURE TESTING & FIXTURE INSTALL THE ENTIRE DOMESTIC WATER SYSTEM SHALL BE DISINFECTED PRIOR TO USE.

AN APPROVED WATER TREATMENT SPECIALIST SHALL BE HIRED TO DISINFECT THE DOMESTIC WATER SYSTEM.

THE PROCEDURE SHALL FOLLOW THE NECESSARY GUIDELINES PRESENTED BY THE AMERICAN WATER WORKS ASSOCIATION (AWWA).

PLUMBING FIXTURE RATE NOTES

REQUIRED MAX FLOW & FLUSH RATES FOR NEW FIXTURES

WATER CLOSET (TOILET)
1.28 GALLON PER FLUSH (GPF) MAX, AND
DUAL FLUSH TOILETS LARGE FLUSH OF 1.6 GPF MAX AND SMALL FLUSH OF 1.1 GPF MAX.

LAVATORY
PUBLIC 0.5 GALLON PER MINUTE (GPM) MAX, AND
PRIVATE 1.5 GPM MAX, AND
RESIDENTIAL 1.2 GPM MAX, AND
CYCLING LAVATORIES 0.25 GALLON PER CYCLE (GPC) MAX

KITCHEN SINK: 1.8 GPM MAX
URINAL: 0.125 GPF MAX
SHOWER: 1.8 GPM MAX

PER CIVIL CODE 1101.5 A "NONCOMPLIANT" PLUMBING FIXTURE SHALL BE REPLACED; "NONCOMPLIANT" IS DEFINED AS ANY TOILET MANUFACTURED TO FLUSH MORE THAN 1.6 GPF, ANY URINAL MANUFACTURED TO FLUSH MORE THAN 1.0 GPF, ANY SHOWERHEAD MANUFACTURED TO FLOW MORE THAN 2.5 GPM, AND ANY INTERIOR FAUCET MANUFACTURED TO FLOW MORE THAN 2.2 GPM.

BUILDING ENERGY EFFICIENCY STANDARDS, TITLE 24, PART 6

THIS PROJECT IS CONSIDERED A NEW CONSTRUCTION PROJECT AND THEREFORE MUST BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE STANDARDS WITHIN TITLE 24, PART 6.

PROJECT IS BEING SATISFIED USING THE PRESCRIPTIVE METHOD.

PLEASE SEE ENERGY CONSULTANTS ENERGY COMPLIANCE SHEETS FOR TITLE 24 ENERGY REQUIREMENTS, CERTIFICATE OF COMPLIANCE, AND NON-RESIDENTIAL MANDATORY MEASURES SUMMARY.

SEED SANTA CRUZ INC
SUSTAINABLE ENVIRONMENT ENGINEERED DESIGN
130 Pearl Alley
Santa Cruz, CA 95060
Contact: Scott Shelton
scottshelton@seedscca.com
www.seedscca.com

PRELIMINARY — NOT TO BE ISSUED FOR CONSTRUCTION, PERMITTING, BIDDING OR RECORDING — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

PROJECT INFORMATION	
CLIENT:	HIPPO HARVEST
NUMBER:	250008
START DATE:	2.20.2025
DRAWN BY:	STS
CHECKED BY:	STS

NEW CONSTRUCTION FOR:
HIPPO HARVEST HOLLISTER
2370 SHORE ROAD
HOLLISTER, CA 95023

DRAWINGS & REVISIONS		
NO	DESCRIPTION	DATE
-	MECHANICAL BID SET	6.5.2025
-	PLUMBING BID SET	6.6.2025
-	MECHANICAL BID SET REV.	6.24.2025
-	MECH-PLUMB BID SET REV.	6.27.2025
-	-	-
-	-	-
-	-	-
-	-	-

ALL DRAWINGS AND WRITTEN MATERIAL APPEARING HEREIN CONSTITUTE ORIGINAL AND UNPUBLISHED WORK OF THE DESIGNER AND MAY NOT BE DUPLICATED, USED, OR DISCLOSED WITHOUT WRITTEN CONSENT OF THE DESIGNER

PLUMBING
NOTES & CALCULATIONS

SHEET: P0.1

BID SET #1 - ADDENDUM 2

PLUMBING SITE PLAN IS A GENERAL OVERALL GAS & WATER PLAN; SITE CONDITIONS MAY DIFFER AND FIELD VERIFICATION FOR SIZES AND LOCATIONS SHALL BE DETERMINED BY CONTRACTOR

PLUMBING GREENHOUSES PHASE 1 (SEE SHEET P2.2)

PLUMBING MAIN BUILDING PHASE 1 (SEE SHEETS P2.0 & P2.1)

PLUMBING FOR ALL OTHER GREENHOUSES AND EAST PORTION OF MAIN BUILDING SHALL NOT BE CONSIDERED IN PRICING OF PHASE 1

SEE SEPTIC DRAWINGS FOR SANITARY WASTE CONVEYANCE TO ON-SITE SEPTIC LEACH FIELD

4" SW

30'x144' HOOP HOUSES

FUTURE MICRO-TURBINE #3

FUTURE MICRO-TURBINE #7

FUTURE MICRO-TURBINE #6

FUTURE MICRO-TURBINE #2

FUTURE MICRO-TURBINE #1

FUTURE MICRO-TURBINE #4

FUTURE MICRO-TURBINE #5

3" GAS & 2" WATER RISER, SHUT-OFF AND CAPPED FOR FUTURE PHASE 2 INSTALL

2" GAS SUPPLY

FH

PL

NEED TO VERIFY LOCATION AND GPM

PH-I

PH-II

1" IRRIGATION RISER, SHUT-OFF, BFP AND CAPPED FOR IRRIGATION USE

SEE PLUMBING SHEET P2.0 FOR DOMESTIC WATER & GAS CONTINUATION INTO MAIN BUILDING

SEE PLUMBING SHEET P2.0 FOR SANITARY WASTE CONVEYANCE THROUGH BUILDING

SEPTIC BY OTHERS

HB-1

1 1/2" GAS

(4) 2" CW

3" GAS RISER, SHUT-OFF AND CAPPED FOR FUTURE PHASE 2 INSTALL

2" WATER RISER, SHUT-OFF AND CAPPED FOR FUTURE PHASE 2 INSTALL

BFP 1

PV 1

PV 2

PV 3

PV 4

B1

B2

FIRE WATER & GENERAL WATER STORAGE TANK

3" GAS SUPPLY

2" GAS RISER, SHUT-OFF AND CAPPED FOR FUTURE PHASE 2 INSTALL

(2) 2" GAS RISERS, SHUT-OFFS AND CAPPED FOR FUTURE PHASE 2 INSTALL

2" WATER SUPPLY

4" GAS SUPPLY

30'x130' HOOP HOUSES

FRAZIER LAKE ROAD

SHORE ROAD

ADD ALTERNATE #2
2" WATER SUPPLY
3" GAS SUPPLY

4" WATER SUPPLY

EXISTING DOMESTIC WELL, PUMP, PIPING, TANK, PRESSURE VESSELS, ETC. SHALL BE REMOVED FROM THE SITE

NATURAL GAS SERVICE PROVIDED BY PG&E

NATURAL GAS SUPPLY PIPE SHALL INCLUDE AN ADDITIONAL SHUT-OFF VALVE FOR THE WEST GAS SUPPLY PIPE

ADD ALTERNATE #2

WATER RISER, SHUT-OFF AND CAPPED FOR FUTURE PHASE 2 INSTALL; WATER SUPPLY SIZE AND USE SHALL BE DETERMINED BY OWNERSHIP

APPROX. 12'x20' FIRE WATER PUMPING SKID; SEE FIRE DRAWINGS

APPROX. 12'X20' DOMESTIC & HOOP HOUSE WATER PUMPING & PRESSURE VESSEL SKID

APPROX. 12'x12' TANK RECIRCULATION EQUIPMENT SKID; SEE STORAGE TANK DRAWINGS

WATER SUPPLY PIPES & NATURAL GAS SUPPLY PIPES SHALL ALL INCLUDE THEIR OWN SHUT-OFF VALVES

5" GAS MAIN SUPPLY BEFORE BRANCH

GAS SUPPLY SHALL INCLUDE SHUT-OFF VALVE, GAS METER AND AUTOMATIC EARTHQUAKE SHUT-OFF VALVE

APPROX. 12'x32' WATER TREATMENT SKID; SEE IRON & MANGANESE TREATMENT DRAWINGS

APPROX. 12'x16' WATER PUMPING SKID; PUMPS, VFD'S AND CONTROLS BY OTHERS SHALL REPLACE EXISTING 125 HP PUMP

POINT OF CONNECTION FOR NEW WELL WATER SUPPLY

TRUE NORTH

BUILDING NORTH

SITE PLAN

SCALE: 1/64" = 1'-0"

SEED
SANTA CRUZ INC
SUSTAINABLE ENVIRONMENT ENGINEERED DESIGN

130 Pearl Alley
Santa Cruz, CA 95060
Contact: Scott Shelton
scottshelton@seedscca.com
www.seedscca.com

REGISTERED PROFESSIONAL ENGINEER — SCOTT TERRANCE SHELTON — No. 3252 — CIVIL — STATE OF CALIFORNIA

PRELIMINARY ISSUE FOR PERMITTING & BIDDING

PROJECT INFORMATION	
CLIENT:	HIPPO HARVEST
NUMBER:	250008
START DATE:	2.20.2025
DRAWN BY:	STS
CHECKED BY:	STS

NEW CONSTRUCTION FOR:

HIPPO HARVEST HOLLISTER

2370 SHORE ROAD
HOLLISTER, CA 95023

DRAWINGS & REVISIONS		
NO	DESCRIPTION	DATE
-	MECHANICAL BID SET	6.5.2025
-	PLUMBING BID SET	6.6.2025
-	MECHANICAL BID SET REV.	6.24.2025
-	MECH-PLUMB BID SET REV.	6.27.2025
-	-	-
-	-	-
-	-	-
-	-	-

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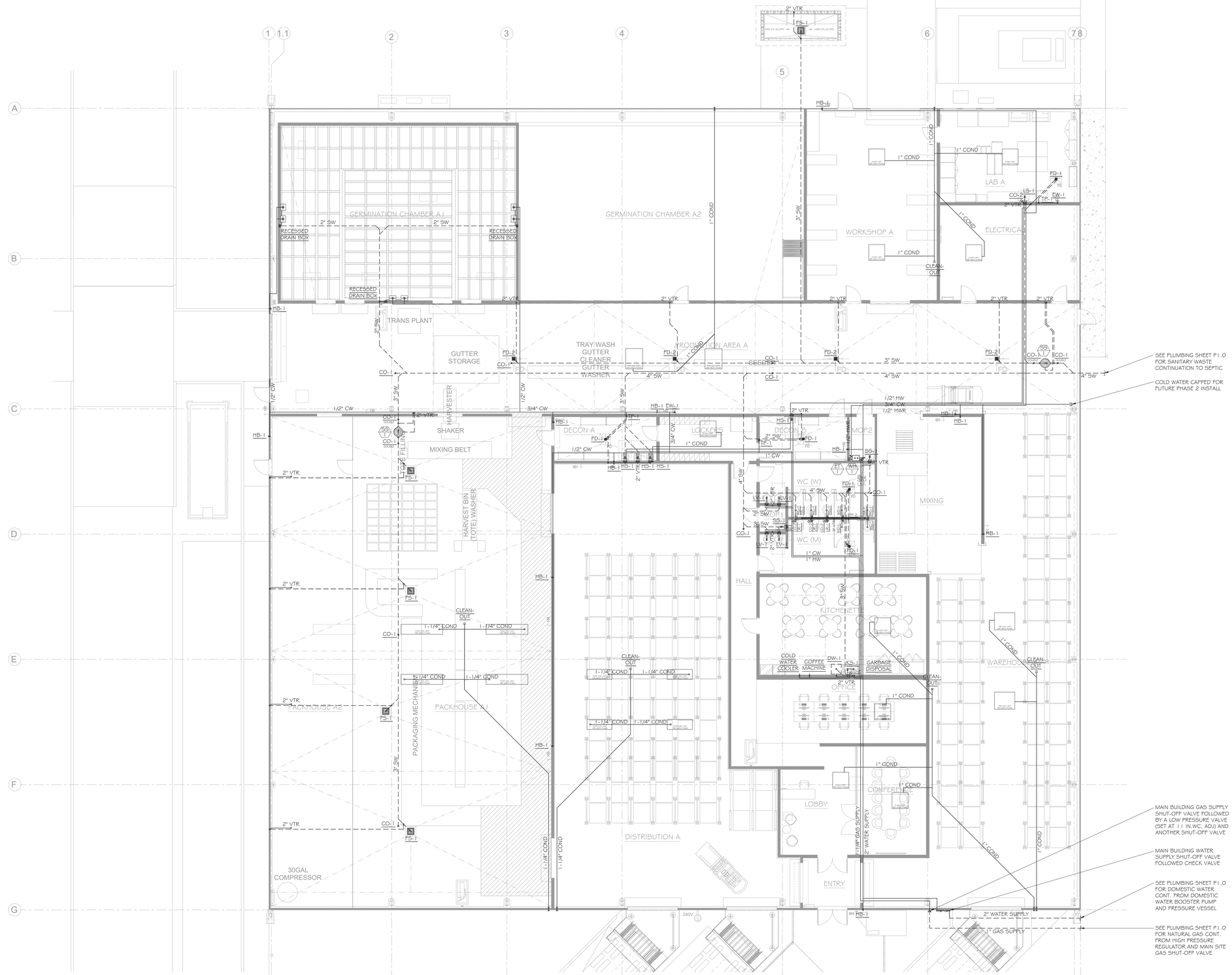
PLUMBING
SITE PLAN

SHEET: P1.0

BID SET #1 - ADDENDUM 2



TRUE NORTH

BUILDING NORTH

FLOOR PLAN

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

SEED
SANTA CRUZ INC
SUSTAINABLE ENVIRONMENT ENGINEERED DESIGN

130 Pearl Alley
Santa Cruz, CA 95060
Contact: Scott Shelton
scottshelton@seedscca.com
www.seedscca.com

REGISTERED PROFESSIONAL ENGINEER — MECHANICAL — ELECTRICAL — PLUMBING — STATE OF CALIFORNIA

PRELIMINARY * ISSUE FOR COORDINATION * NOT FOR BIDDING OR CONSTRUCTION

PROJECT INFORMATION	
CLIENT:	HIPPO HARVEST
NUMBER:	250008
START DATE:	2.20.2025
DRAWN BY:	STS
CHECKED BY:	STS

NEW CONSTRUCTION FOR:

HIPPO HARVEST HOLLISTER

2370 SHORE ROAD
HOLLISTER, CA 95023

DRAWINGS & REVISIONS		
NO	DESCRIPTION	DATE
-	MECHANICAL BID SET	6.5.2025
-	PLUMBING BID SET	6.6.2025
-	MECHANICAL BID SET ADD 1	6.24.2025
-	MECH-PLUMB BID SET ADD 2	6.27.2025
-	-	-
-	-	-
-	-	-
-	-	-

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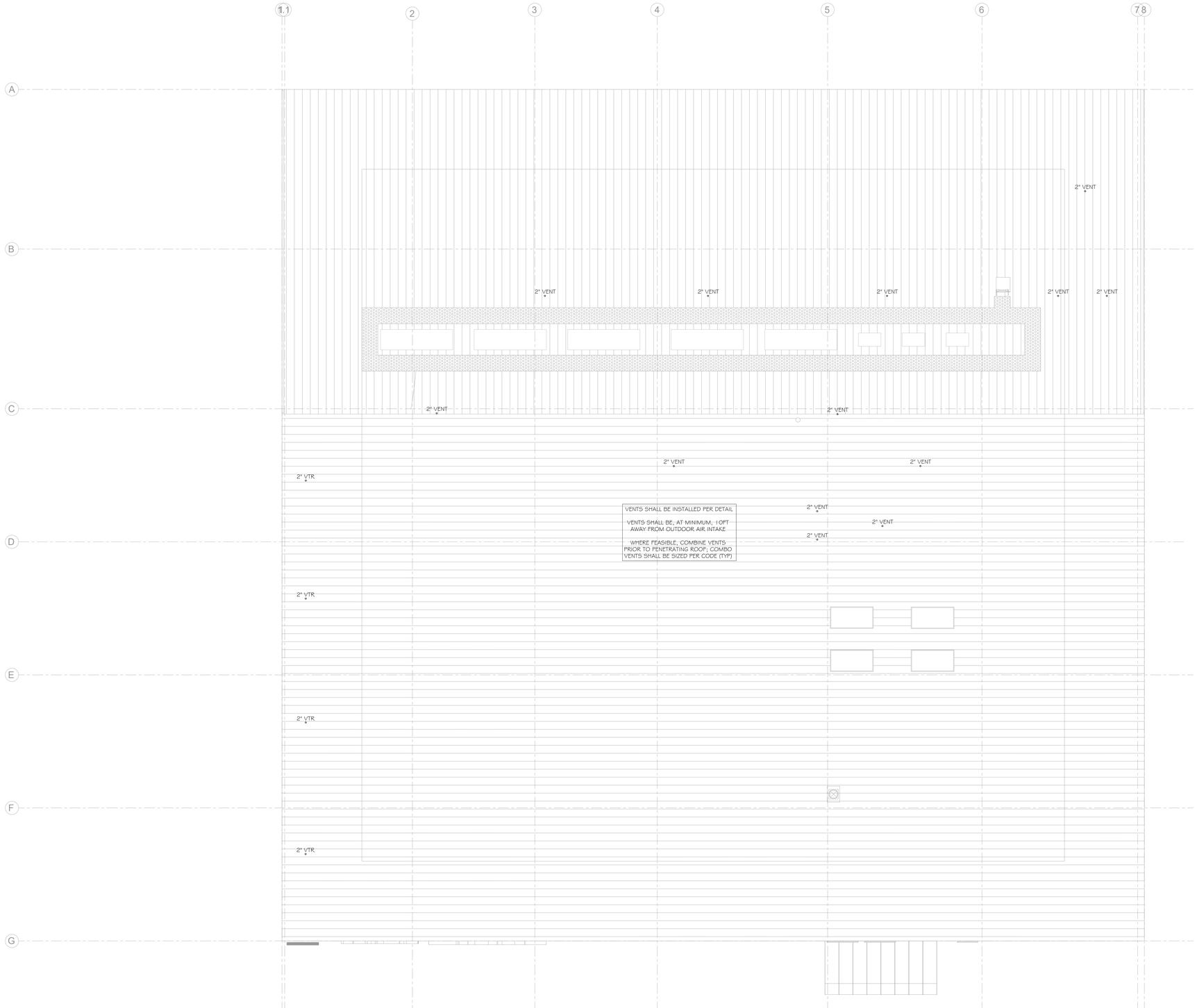
PLUMBING
FLOOR PLAN

SHEET: P2.0

BID SET #1 - ADDENDUM 2



TRUE NORTH

BUILDING NORTH

ROOF PLAN

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

SEED
SANTA CRUZ INC
SUSTAINABLE ENVIRONMENT ENGINEERED DESIGN

130 Pearl Alley
Santa Cruz, CA 95060
Contact: Scott Shelton
scottshelton@seedscca.com
www.seedscca.com

PRELIMINARY * ISSUE FOR COORDINATION * NOT FOR BIDDING

PROJECT INFORMATION	
CLIENT:	HIPPO HARVEST
NUMBER:	250008
START DATE:	2.20.2025
DRAWN BY:	STS
CHECKED BY:	STS

NEW CONSTRUCTION FOR:

HIPPO HARVEST HOLLISTER

2370 SHORE ROAD
HOLLISTER, CA 95023

DRAWINGS & REVISIONS		
NO	DESCRIPTION	DATE
-	MECHANICAL BID SET	6.5.2025
-	PLUMBING BID SET	6.6.2025
-	MECHANICAL BID SET REV1	6.24.2025
-	MECH-PLUMB BID SET REV2	6.27.2025
-	-	-
-	-	-
-	-	-
-	-	-

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PLUMBING
ROOF PLAN

SHEET: P2.1

BID SET #1 - ADDENDUM 2

REVERSE OSMOSIS (RO) SYSTEM SCHEDULE

TAG	LOCATION	SERVICE	TYPE	QUAN	BASIS OF DESIGN			TREATED AMOUNT	NOTES & ACCESSORIES	STRUCTURAL	ELECTRICAL	
					MFG	MODEL	TOTAL DISSOLVED SOLIDS			WEIGHT	V/PH/HZ	POWER
RO 1	ADJACENT FIRE GREENHOUSE	PLANT WATER AND EVAP COOL WATER	REVERSE OSMOSIS	1	PURE AQUA, INC.	RO-300 SERIES **BW-27K-6340-3	**1,402 PPM	27,000 GPD 18.75 GPM	1, 2, 3 & 4	990 LBS.	220/1/60	AMPS

NOTES & ACCESSORIES
1. REVERSE OSMOSIS SYSTEM & NECESSARY ACCESSORIES (FOR COMPLETE FUNCTIONALITY) SHALL BE INSTALLED PER MANUFACTURERS SPECIFICATIONS
2. INCLUDE COMPLETE SKID; CONFIGURE SKID SO FLUID FLOWS AT FRONT FROM LEFT TO RIGHT
3. **INCLUDE RE TESTING OF WATER AFTER IRON & MANGANESE TREATMENT, TDS VALUE MAY CHANGE; MODEL MAY CHANGE DUE TO TDS VALUE CHANGING
4. INCLUDE BRACING & MOUNTING PER STRUCTURAL DRAWINGS

EVAPORATIVE COOLER WALL

TAG	LOCATION	SERVICE	TYPE	QUAN	BASIS OF DESIGN	
					MFG	SIZE
ECW 20	ADJACENT HOOP HOUSE	COOLING HOOP HOUSE	PUMP & PAD W/ WATER TANK SYSTEM	1	L.B.WHITE REEVES	CUSTOM TO ORDER

SIZE	STRUCTURAL	PUMP ELECTRICAL	
	WEIGHT	V/PH/HZ	POWER
6" THICK PAD 30 FT WIDE 6 FT TALL	UNKOWN	220/1/60	0.5 HP

STORAGE TANK SCHEDULE

TANK SIZE & QUANTITY WILL INCREASE DUE TO AMOUNT OF RO DISCHARGE WATER

TAG	LOCATION	SERVICE	TYPE	QUAN	BASIS OF DESIGN			NOTES & ACCESSORIES	STRUCTURAL
					MFG	VOLUME	DIA x HEIGHT		WEIGHT
ST 1	ADJACENT FIRE GREENHOUSE	RO HARD WATER DISCHARGE FOR EVAP COOL WALL	HIGH DENSITY POLYETHYLENE	1	NORWESCO	5,000 GAL	102"x155-3/4"	1, 2 & 3	TBD LBS EMPTY APPROX. TBD LBS FILLED W/ H2O
ST 2a thru 2h	ADJACENT FIRE GREENHOUSE	PLANT WATER	HIGH DENSITY POLYETHYLENE	8	NORWESCO	11,000 GAL	144"x165"	1, 2 & 3	TBD LBS EMPTY APPROX. TBD LBS FILLED W/ H2O

NOTES & ACCESSORIES
1. WATER STORAGE TANK & NECESSARY ACCESSORIES (FOR COMPLETE FUNCTIONALITY) SHALL BE INSTALLED PER MANUFACTURERS SPECIFICATIONS
2. INCLUDE COVER AND INLET & OUTLET FITTINGS AND CONNECTIONS
3. INCLUDE BRACING & MOUNTING PER STRUCTURAL DRAWINGS

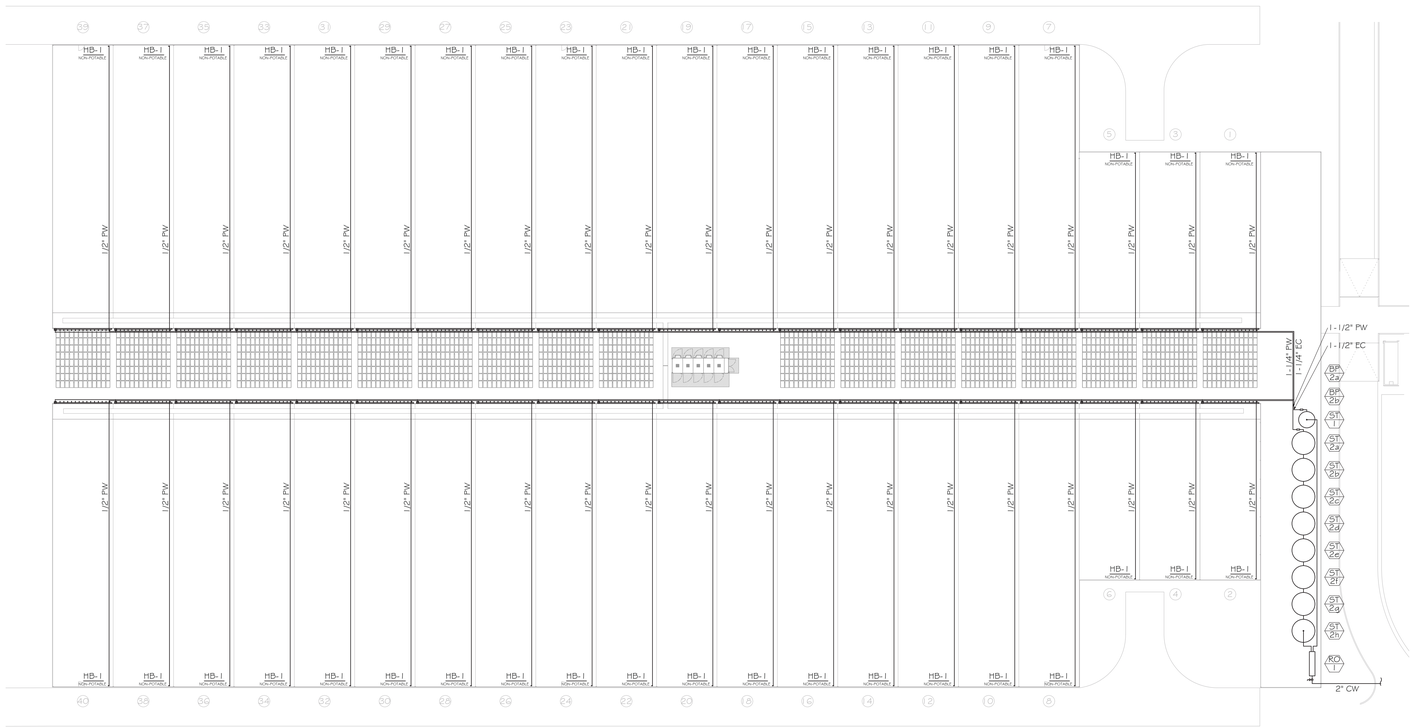
BOOSTER PUMP SCHEDULE

TAG	LOCATION	SERVICE	TYPE	QUAN	BASIS OF DESIGN		SYSTEM			NOTES & ACCESSORIES	STRUCTURAL	ELECTRICAL		
					MFG	MODEL	MAX FLOW	MAX HEAD	MAX PRESSURE		WEIGHT	V/PH/HZ	POWER	
BP 2a-2f	ADJACENT FIRE GREENHOUSE	PLANT WATER AND EVAP COOL WATER	MULTI-STAGE BOOSTER	2	LEADER	ECOPLUS/ INOXPLUS 230	27 GPM	118 FT	51 PSI	1 & 2	190 LBS	115/1/60	1/2 HP	10.0 A

NOTES & ACCESSORIES
1. PUMP & NECESSARY ACCESSORIES (FOR COMPLETE FUNCTIONALITY) SHALL BE INSTALLED PER MANUFACTURERS SPECIFICATIONS
2. INCLUDE UNION & ISOLATION VALVE ON EITHER SIDE OF PUMP



GREENHOUSE SECTION - HOOP 20
SCALE: 1/8" = 1'-0"



TRUE NORTH
BUILDING NORTH

GREENHOUSE PLAN - HOOPS 1 THRU 40
SCALE: 1/32" = 1'-0"



TRUE NORTH
BUILDING NORTH

GREENHOUSE PLAN - HOOP 20
SCALE: 1/8" = 1'-0"

SEED
SANTA CRUZ INC
SUSTAINABLE ENVIRONMENT ENGINEERED DESIGN
130 Pearl Alley
Santa Cruz, CA 95060
Contact: Scott Shelton
scottshelton@seedscca.com
www.seedscca.com

PRELIMINARY NOT FOR CONSTRUCTION
REGISTERED PROFESSIONAL ENGINEER
SCOTT SHELTON
MECHANICAL
No. M 31966
STATE OF CALIFORNIA
ISSUE FOR COORDINATION
NOT FOR BIDDING

PROJECT INFORMATION	
CLIENT:	HIPPO HARVEST
NUMBER:	250008
START DATE:	2.20.2025
DRAWN BY:	STS
CHECKED BY:	STS

NEW CONSTRUCTION FOR:

HIPPO HARVEST HOLLISTER

2370 SHORE ROAD
HOLLISTER, CA 95023

DRAWINGS & REVISIONS		
NO	DESCRIPTION	DATE
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-	MECHANICAL BID SET REV 1	6.24.2025
-	MECH-PLUMB BID SET REV 2	6.27.2025
-	-	-
-	-	-
-	-	-
-	-	-

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PLUMBING GREENHOUSE PLAN & EQUIPMENT SCHEDULES

SHEET: P2.2

BID SET #1 - ADDENDUM 2

SOIL PERCOLATION TEST RECORDED MEASUREMENTS

OWNER/APPLICANT: HIPPO HARVEST — P. 1 of 1
LOCATION: 2370 Shore Rd., Hollister 95023 — APN 013-050-024-000
TEST CONDUCTED BY: CHRIS DAY, R.E.H.S. — PHONE: 650-293-1045 — DATE: 3/25/2025

HOLE #1 — DEPTH: 2.5 ft (5 1/4" on ruler)

TIME START	TIME FINISH	WATER LEVEL START	WATER LEVEL FINISH	Δ MIN	Δ INCH	MPI
12:57	1:27	15 1/2	14 1/4	30	1 1/4	24.0
1:27	1:57	15 1/2	15	30	1/2	60.0
1:57	2:27	15 1/2	15 7/16	30	1/16	480.0
TEST HOLE FAILED (>120 MPI) - AREA EXCLUDED						

HOLE #2 — DEPTH: 2.5 ft (4 3/4" on ruler)

TIME START	TIME FINISH	WATER LEVEL START	WATER LEVEL FINISH	Δ MIN	Δ INCH	MPI
12:59	1:28	15	DRY	29		
1:29	1:41	15 1/4	8 1/4	12	7	1.7
1:42	1:52	15 1/4	8 3/8	10	6 7/8	1.5
1:52	2:02	15 1/4	8 1/2	10	6 3/4	1.5
2:02	2:12	15 1/4	8 5/8	10	6 5/8	1.5
2:12	2:22	15 3/4	8 3/4	10	6 5/8	1.5
2:23	2:33	15 1/4	8 3/4	10	6 1/2	1.5

HOLE #3 — DEPTH: 2.5 ft (5 1/2" on ruler)

TIME START	TIME FINISH	WATER LEVEL START	WATER LEVEL FINISH	Δ MIN	Δ INCH	MPI
1:01	1:32	15 1/2	DRY	31		
1:33	1:44	15 1/2	10 3/4	11	4 3/4	2.3
1:45	1:55	15 1/2	10 3/4	10	4 3/4	2.1
1:55	2:05	15 1/2	10 7/8	10	4 5/8	2.2
2:05	2:15	15 1/2	11	10	4 1/2	2.2
2:16	2:26	15 1/2	11	10	4 1/2	2.2
2:26	2:36	15 1/2	11 1/16	10	4 7/16	2.3

HOLE #4 — DEPTH: 2.5 ft (6" on ruler)

TIME START	TIME FINISH	WATER LEVEL START	WATER LEVEL FINISH	Δ MIN	Δ INCH	MPI
1:05	1:36	16	DRY	31		
1:37	1:49	16	11 1/4	12	4 3/4	2.5
1:50	2:00	16	11 3/8	10	4 5/8	2.2
2:01	2:11	16	11 1/2	10	4 1/2	2.2
2:11	2:21	16	11 5/8	10	4 3/8	2.3
2:21	2:31	16 1/8	11 5/8	10	4 1/2	2.2
2:31	2:41	16 1/8	11 3/4	10	4 3/8	2.3

HOLE #5 — DEPTH: 2.5 ft (5" on ruler)

TIME START	TIME FINISH	WATER LEVEL START	WATER LEVEL FINISH	Δ MIN	Δ INCH	MPI
1:08	1:34	15	DRY	26		
1:38	1:52	15	9 7/8	14	5 1/8	2.7
1:52	2:02	15 1/2	10 1/2	10	5	2.0
2:03	2:13	15 1/2	10 5/8	10	4 7/8	2.1
2:13	2:23	15 1/2	10 5/8	10	4 7/8	2.1
2:23	2:33	15 1/2	10 3/4	10	4 3/4	2.1
2:34	2:45	15 1/2	11	11	4 1/2	2.4

AVERAGE PERC RATE = 2.1 MPI

Note that Test Hole #1 is Excluded

Soil Analysis Test Data

APN 013-050-024-000 2370 Shore Rd., Hollister, CA 95023	Test Conducted on 3/22/2025 By Chris Day, R.E.H.S. Tel. 650-293-1045	
Owner/Applicant: Hippo Harvest		
Soil Profile Test Hole #1	Depth: 11 1/2 ft	
0 to 3 ft	Loam Clay Sand Roots None Pores Coarse & Common Weak Subangular Structure Less Than 15% Rock Slightly Moist Condition of Soil Color Black No Mottling	Not Restrictive
3 to 6 ft	Clay Sand Roots None Pores Coarse & Common Weak Subangular Structure Less Than 15% Rock Slightly Moist Condition of Soil Color Medium Tan No Mottling	Not Restrictive Groundwater Seeping Into Test Pit at 10 ft
6 ft	Groundwater (Depth to groundwater was observed after 30 min. No seepage above 6 ft)	RESTRICTIVE

PROJECT SCOPE & RATIONALE:

This project is construct new agricultural facilities including a warehouse for processing and packaging and several hundred "hoop houses" where produce will be grown in reusable trays.

Peak wastewater flow of 1,185 gpd will be generated by up to 75 employees (15 gpd per worker = 1,125 gpd), warehouse facility cleaning (50 gpd), and washing of the planting trays (10 gpd). Tray washing cleanser is Sanidate 50 diluted to about 0.25 % concentration in the rinse water.

Pressure-dosing and supplemental treatment including UV disinfection was selected due to shallow groundwater observed at 6 ft depth in the soil profile test pit conducted during the wet weather testing window designated for southern Santa Clara County by SCC DEH.

The new alternative type septic system will require ongoing operations, maintenance & monitoring by a qualified service provider for the life of the system.

INFILTRATIVE AREA CALCULATIONS & SPECIFICATIONS

TYPE OF SEPTIC SYSTEM: Pressure-Dosed Trench w/ Aerobic Treatment & Disinfection

DESIGN CALCULATIONS:	DRAINFIELD TRENCH SPECIFICATIONS:
Average Percolation Rate : **2 MPI**	Drainfield Dimensions: **2 ft width x 2.5 ft depth**
Design Application Rate: **1.2 gal/sq. ft./day**	Drainrock Below Pressure-Dosed Lateral: **1.0 ft**
Wastewater Flow: **1,185 gpd** *(see below)*	Slope in Drainfield Area: **Less Than 1% (Flat)**
Required Infiltrative Area: **988 ft²** (1,185 gpd/1.2 gpd/ft²)	Horizontal Drainfield Spacing: **6 ft minimum**
Infiltrative Area per Linear Ft Trench: **4 sq. ft.**	Depth to GW Below Trenches: **3.5 ft** (GW @ 6 ft in WWT/soil profile)
Min. Trench Length (each side of diverter): **247 ft**	Required Depth to GW Below Trenches: **3 ft**

ABBREVIATIONS

APN	ASSESSOR'S PARCEL NUMBER
(E)	EXISTING
EVCS	ELECTRIC VEHICLE CHARGING SPACE
(F)	FUTURE
FT	FEET
(N)	NEW
P/L	PROPERTY LINE
R/W	RIGHT-OF-WAY
SF	SQUARE FEET
TYP.	TYPICAL

LEGEND

BUILDING (N)
GREENHOUSE (N)
SOLAR PANEL (N)
CURB (N)
TREE (N)
UTILITY POLE (E)
BUILDING (E)
OVERHEAD LINES (E)

PARKING CALCULATIONS

PER SBC CODE TABLE 25.07-C

BUILDING USE	AREA (SF)	PARKING DENSITY	SPACES
GENERAL INDUSTRIAL	41300	1 SPACE / 1000 SF	41
OFFICE WITHIN INDUSTRIAL	3500	1 SPACE / 300 SF	12
TOTAL	**44800**	**-**	**53**

PARKING TABLE

TYPE	REQUIRED	PROVIDED
REGULAR + COMPACT	37	41
VAN ACCESSIBLE	1	1
REGULAR ACCESSIBLE	2	2
REGULAR EVCS	2	2*
VAN ACCESSIBLE EVCS	1	1
(F) EVCS	10	10*
TOTAL	**53**	**57**
BICYCLE	5	5*

* NOT SHOWN ON THESE PRELIMINARY PLANS

DEL TORO APN 013-050-034

BUSCH APN 013-050-024 41.267 ACRES

BUSCH APN 013-050-025 38.975 ACRES

2345.41
1056.19
1725.36
1693.18
S25° 31' 38"E
(E) P/L TO BE ADJUSTED

PRESSURE-DOSED SEPTIC LEACHFIELDS
3 X 83 linear ft each side of diverter valve
Lateral spacing is 6 ft on center minimum.

AREA EXCLUDED
P1 TEST HOLE P1 FAILED >120 MPI
P2 P3 P4 P5
6.02 ft

DIVERTER VALVE
1860.00'
119.25'

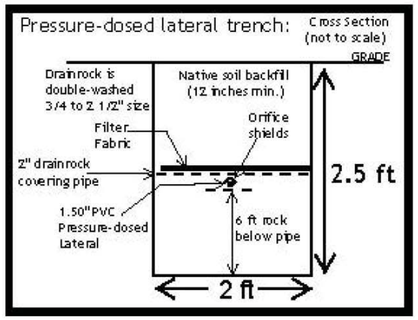
(28) 104'x30' HOOPHOUSES
(10) 104'x30' HOOPHOUSES
(22) 104'x30' HOOPHOUSES
SP1
(26) 104'x30' HOOPHOUSES
(24) 104'x30' HOOPHOUSES
(22) 104'x30' HOOPHOUSES
(22) 104'x30' HOOPHOUSES
(5) 104'x30' HOOPHOUSES
(4) 104'x30' HOOPHOUSES
(23) 104'x30' HOOPHOUSES
(21) 104'x30' HOOPHOUSES
(23) 104'x30' HOOPHOUSES
(19) 104'x30' HOOPHOUSES
(23) 104'x30' HOOPHOUSES
(18) 104'x30' HOOPHOUSES
(23) 104'x30' HOOPHOUSES
(16) 104'x30' HOOPHOUSES
(6) 104'x30' HOOPHOUSES
(8) 104'x30' HOOPHOUSES
HOOPHOUSE
BRIDGES 277.25'
BUILDING (N) 161.58'
19.87'
8.50' TYP.
38' TYP.
104' TYP.
30' TYP.
33.00' S

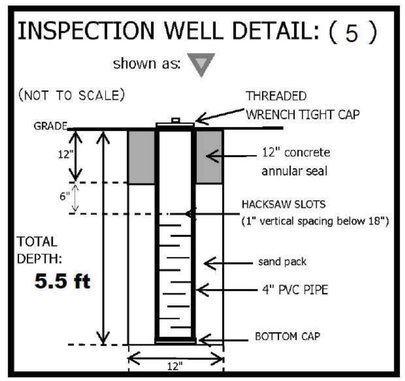
SEPTIC TANK, 2,500 gal, concrete
PUMP TANK 500 gal, plastic
RECIRCULATION TANKS (3), 1,500 gal, 1,500 gal, 2,000 gal, concrete
ORENCO AX20 AEROBIC FILTER PODS (3)
REMOVE BARN
(E) WELL
140.56'
162.00'
89' ±
45'
5± FT DEEP LINEAR DETENTION POND
917.14'

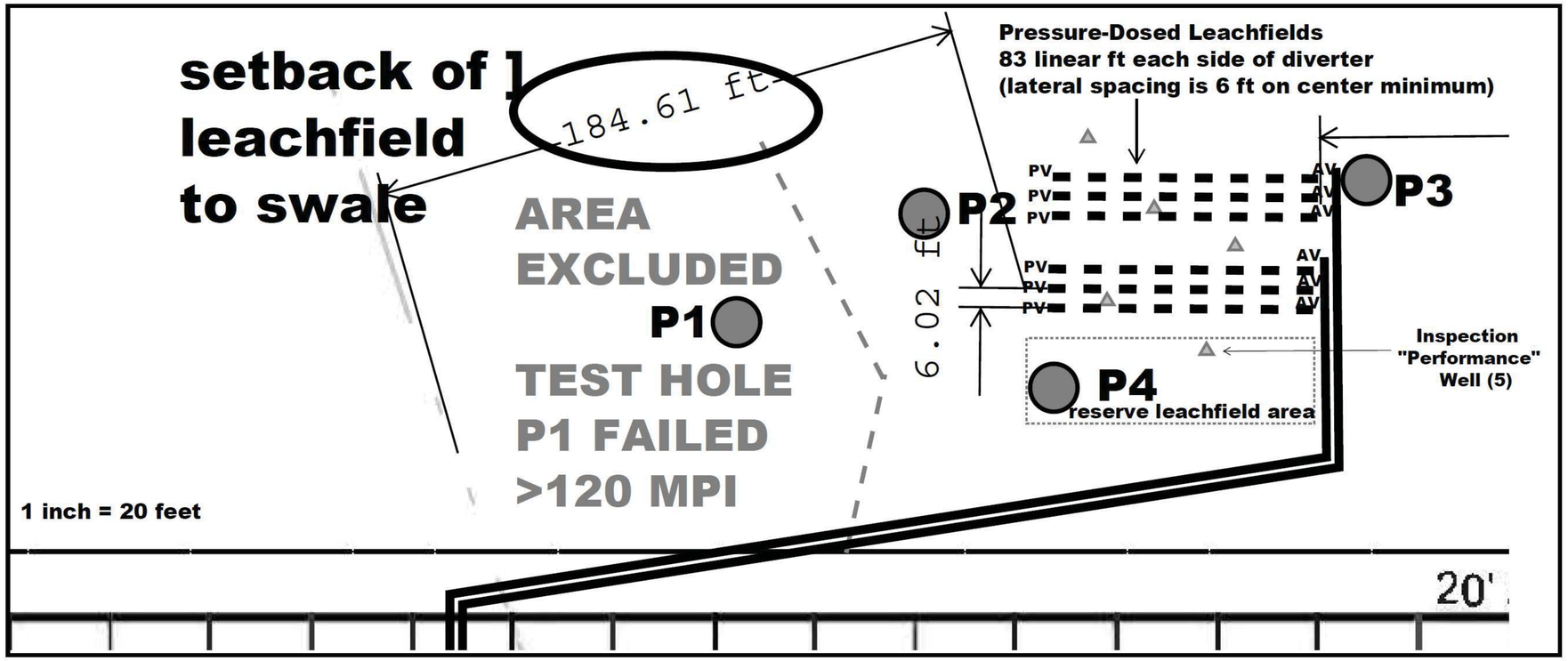
FRAZIER LAKE ROAD
5± FT DEEP LINEAR DETENTION POND
114' ±
110' ±
117' ±
50'
104' ±
179'-24"
PRIMILLA APN 013-040-005
JOURNEY APN 013-040-006
729.01
S67° 48' 52"W
SHORE ROAD
ACCESSIBLE EGRESS TO PUBLIC R/W
1057.17
1786.18
CALAVERAS FAULT
ALQUIST PRIOLO SPECIAL STUDIES ZONE SANTA TERESA QUADRANGLE
TOMS APN 013-050-010
CHAMBERLAIN
PALANTE ENTERPRISES LLC APN 013-060-016
BRIGANTINO D&D APN 013-060-018

GRAPHIC SCALE
100 0 50 100 200 400
(IN FEET)
1 inch = 100 ft.

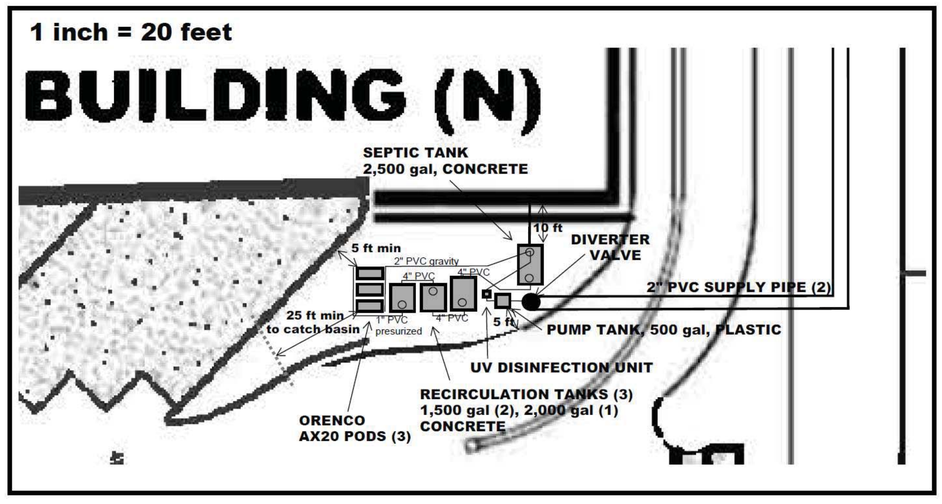
PLAN BY: Christopher Day Tel. 650-293-1045 chris5day1966@gmail.com
ORIG
REV 1:
REV 2:
OWNER: Hippo Harvest Tel: 602-510-8932 Email: kevin.burgi@hippoharvest.com
2370 Shore Rd., Hollister, CA 95023
APN 013-050-024-000
SITE PLAN
Pressure-Dosed Trench Septic System w/ Secondary Treatment & Disinfection (To Serve Proposed New Agricultural Facilities)
OWTS 1







AV = adjusting valve (pressure rated gate valve at start of each leachfield)
PV = purge valve (pressure rated ball valve at end of each leachfield)



ORIG 30 JUN 25
REV 1:
REV 2:

PLAN BY:
Christopher Day
Tel. 650-293-1045
chris5day1966@gmail.com

OWNER:
Hippo Harvest
Tel. 602-510-8932
Email: kevin.burg@hippoharvest.com

2370 Shore Rd., Hollister, CA 95023
APN 013-050-024-000

SITE PLAN ENLARGMENT

Pressure-Dosed Trench Septic System
w/ Secondary Treatment & Disinfection
(To Serve Proposed New Agricultural Facilities)

OWTS 2

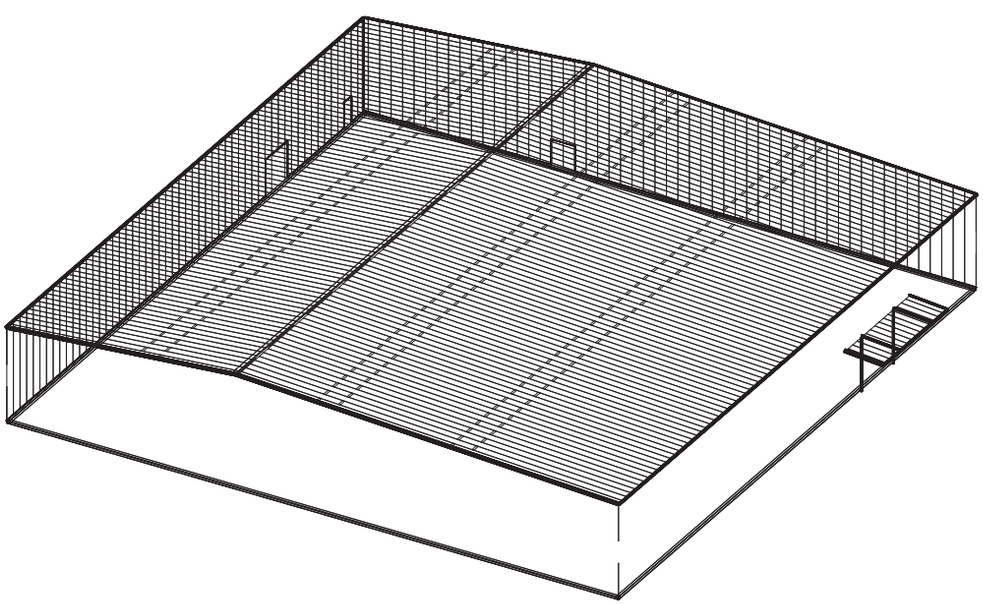
BID SET #1 - ADDENDUM 2

Butler Manufacturing
a division of BlueScope Buildings North America Inc.

Drawing Index	
Drawing Title	Pages
Cover Sheet	
Codes and Loads	
Notes	
Anchor Rod Plan	
Primary Structural	
Secondary Structural	
Covering	
Special Drawings	
Standard Erection Details	
Pianograph Details	

Drawing Release History		
Type	Date	Description

BASIC BUILDING INSTALLATION GUIDE 3586
MR-24 ROOF INSTALLATION GUIDE 4797
SHADOWALL INSTALLATION GUIDE 5176
ROOF OWNERS MAINTENANCE 5038



General Notes

Materials

	ASTM Designation	
3 Plate Welded Sections	A529, A572, A1011, A1018	Grade 55
Cold Formed Light Gage Shapes	A653, A1011	Grade 60
Brace Rods	A572, A510	Grade 50
Hot Rolled Mill Shapes	A36, A529, A572, A588, A992	Grade 36 or 50
Hot Rolled Angles	A529, A572, A588, A992	Grade 50
Hollow Structural Section (HSS)	A500	Grade B
Cladding	A653, A792	Grade 50 or Grade 80

High Strength Bolt Tightening Requirements

It is the responsibility of the erector to ensure proper bolt tightness in accordance with applicable regulations. See RCSC specification for structural joints using high strength bolts for more information. See erection guide for bolt tightening instructions. The following criteria may be used to determine the bolt tightness (i.e.-snug tight or pre-tension) unless required otherwise by local jurisdiction or contract.

All A490 bolts shall be "pre-tensioned". A325 bolts in primary framing and bracing connections may be "snug-tight" except as follows;

Pre-tension A325 bolts if building supports a crane greater than 5 ton capacity.

Pre-tension A325 bolts if building supports machinery that creates vibration, impact, or stress reversals on connections.

Pre-tension A325 bolts if located in high seismic areas. For IBC based codes; high seismic is design category D, E or F. See codes and loads section below for details.

Pre-tension any connection with designation A325-SC. Slip critical (SC) connections must be free of paint, oil or other materials that reduce friction at contact surfaces. Galvanized or lightly rusted surfaces are acceptable.

In Canada, all A325 and A490 bolts shall be "pre-tensioned", except for secondary members and flange braces.

Secondary members and flange brace connections are always "snug tight", unless indicated otherwise in erection drawing details.

Inspection and Testing

Special inspections and testing required by Authority Having Jurisdiction (AHJ) during construction and/or steel fabrication is the responsibility of the owner or owners authorized agent. When required, the owner shall employ a Quality Assurance Agency (QAA) approved by the AHJ. The builder is responsible to coordinate between the QAA firm and BBNA Fabrication Facilities. The type and extent of special inspections and NDT weld testing must be specifically stipulated in contract documents or BBNA will assume special inspections and/or NDT testing are waived as permitted by the building code based on BBNA facilities IAS AC472 accreditation.

BID SET #1 - ADDENDUM 2

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C

Butler Manufacturing
1540 Genesee St. Kansas City, MO 64102

COVER SHEET

Builder:	STEEL SOLUTIONS, INC.
Customer:	
Location:	Hollister, California
Project:	Hippo Harvest
Builder's PO#:	20-04-990-21

Butler Manufacturing
VPC Version: 25.1.1

Job #:
Date: 6/27/2025
Drawn/Check: /
Page:

Codes and Loads
WHEN MULTIPLE BUILDINGS ARE INVOLVED, SPECIFIC LOAD FACTORS FOR DIFFERING OCCUPANCIES, BUILDING DIMENSIONS, HEIGHTS, FRAMING SYSTEMS, ROOF SLOPES, ETC., MAY RESULT IN DIFFERENT LOAD APPLICATION FACTORS THAN INDICATED BELOW. SEE CALCULATIONS FOR FURTHER DETAILS. WIND LOADS ARE APPLIED TO OVERALL BUILDING ENVELOPE. COMMON WALLS BETWEEN CONNECTED SHAPES ARE NOT SUBJECT TO EXTERNAL WIND LOADS.

City: Hollister | County: San Benito | State: California | Country: United States

Building Code
Building Code: California Building Standard Code - 2022 (CA2022)

Based on Building Code: 2021 International Building Code

Building Risk/Occupancy Category: II (Standard Occupancy Structure)

Structural: 16AISC - ASD

Cold Form: 16AISI - ASD

Rainfall: I: 1.00 inches per hour

f'c: 3000.00 psi Concrete

Dead and Collateral Loads
Collateral Gravity: 7.00 psf
Collateral Uplift: 0.00 psf

Material Dead Weight
Roof Covering + Second. Dead Load: Varies
Frame Weight (assumed for seismic):2.50 psf

Roof Live Load
Roof Live Load: 20.00 psf Reducible

Wind Load
Wind Speed: Vult: 92.00 (Vasd: 71.26) mph
The 'Envelope Procedure' is Used
Primaries Wind Exposure: C - Kz: 0.944
Parts Wind Exposure Factor: 0.944
Wind Enclosure: Enclosed
Topographic Factor: Kzt: 1.0000
Ground Elevation Factor: Ke: 0.9941

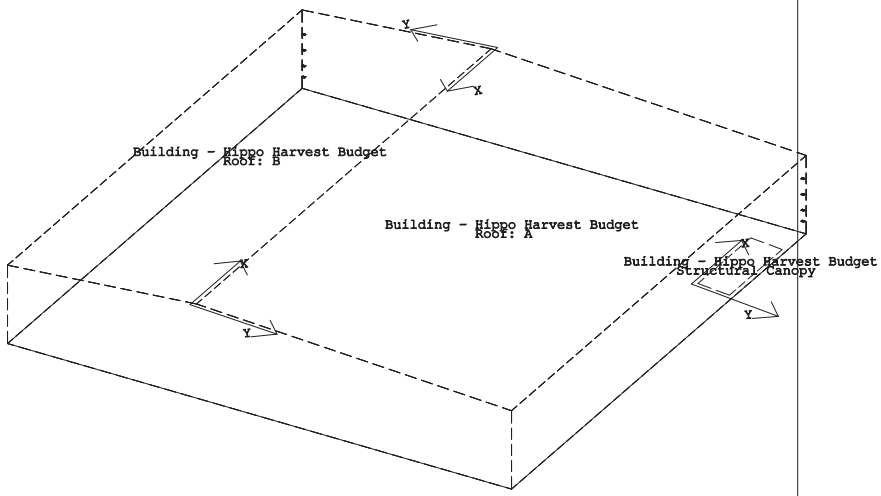
NOT Windborne Debris Region
Base Elevation: 0/0/0
Site Elevation: 164.0 ft
Primary Zone Strip Width: 2a: 19/10/13
Parts / Portions Zone Strip Width:
Walls, a: 9/11/6
Roof(s), 0.6h: 14/11/2
Velocity Pressure: qz: 17.29, (C&C) 17.29 psf

Snow Load
Ground Snow Load: pg: 0.00 psf
Flat Roof Snow: pf: 0.00 psf
Design Snow (Sloped): ps: 0.00 psf
Rain Surcharge: 0.00 psf
Exposure Factor:
Snow Importance: Is: 1.000
Thermal Factor: - Ct: 1.00
Ground / Roof Conversion: 0.70

Seismic Load
Lateral Force Resisting Systems using Equivalent Force Procedure
Mapped MCE Acceleration: Ss: 230.70 %g
Mapped MCE Acceleration: S1: 86.10 %g
Site Class: Soft soil (E)
Seismic Importance: Ie: 1.0000
Design Acceleration Parameter: Sds: 1.8456
Design Acceleration Parameter: Sd1: 1.1480
Seismic Design Category: E
Seismic Snow Load: 0.00 psf
% Snow Used in Seismic: 0.00
Diaphragm Condition: Flexible
Fundamental Period Height Used: 27/4/8

Transverse Direction Parameters
Ordinary Steel Moment Frames
Redundancy Factor: Rho: 1.30
Fundamental Period: Ta: 0.3954
R-Factor: 3.50
Overstrength Factor: Omega: 2.50
Deflection Amplification Factor: Cd: 3.00
Base Shear: V: 0.5273 x W

Longitudinal Direction Parameters
Ordinary Steel Moment Frames
Redundancy Factor: Rho: 1.30
Fundamental Period: Ta: 0.3954
R-Factor: 3.50
Overstrength Factor: Omega: 2.50
Deflection Amplification Factor: Cd: 3.00
Base Shear: V: 0.5273 x W



BID SET #1 - ADDENDUM 2

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C

Butler Manufacturing
1540 Genessee St. Kansas City, MO 64102

CODES AND LOADS

Rev:	Date:	By:	Description:

Drawing Scale: NTS

Builder: STEEL SOLUTIONS, INC.
Customer:
Location: Hollister, California
Project: Hippo Harvest
Builder's PO#: 20-04-990-21

Butler Manufacturing
VPC Version: 25.1.1

Job #:
Date: 6/27/2025
Drawn/Check: /
Page:

BUILDER/CONTRACTOR RESPONSIBILITIES

Butler Mfg. follows the guidelines as outlined in the AISC and MBMA Codes of Standard Practice. Butler Mfg. standard product specifications, design, fabrication, quality criteria shall govern all work unless stipulated otherwise in the contract documents. In case of discrepancies between Butler Mfg. structural plans and plans for other trades, Butler Mfg. structural plans shall govern.

It is the responsibility of the Builder to obtain approvals and permits from all governing agencies and jurisdictions as required. Approval of Butler Mfg drawings constitutes the builders acceptance of Butler interpretation of the contract purchase order. Unless specific design criteria concerning interface design and details are furnished as part of the contract, Butler Mfg. design assumptions shall govern.

Butler engineers are not Project Engineers or Engineer of Record for the overall project. Butler engineering supply sealed engineering design data and drawings for Butler supplied material as part of the overall project for use by others to obtain permits, approvals, and coordinate with other trades. All interface and/or compatibility of any materials not furnished by Butler are to be considered and coordinated by the builder or A/E firm.

CONSTRUCTION & ERECTION RESPONSIBILITY

The Builder is responsible for construction in strict accordance with Butler Mfg. "FOR CONSTRUCTION" drawings and all applicable product installation guides. Butler is not responsible for work done from any other Butler drawings that are not marked "FOR CONSTRUCTION", nor any drawings prepared by others.

As erected field assemblies of members shall be as specified in MBMA Code of Standard Practice (in Canada – CSA S16), which require L/500 tolerance of installed members. Occasional field work including shimming, cutting, coping, and drilling for final fit–up are considered part of erection. Specified field work and field welding conditions indicated on these drawings shall also be included in the erectors scope of work. See Erection Guide for shimming procedure. For building with top riding bridge cranes see Crane Data drawing for column plumb tolerance.

The building erector shall be properly licensed and experienced in erecting metal building systems. The Builder is responsible for having knowledge of, and shall comply with, all OSHA requirements and all other governing site safety criteria. The builder is responsible for designing, supplying, locating and installing temporary supports and bracing during erection of the building. Butler bracing is designed for code required loads after building completion and shall not be considered as adequate erection bracing. See Erection Guide.

Shimming of steel buildings during erection may be required to accomodate allowable tolerances during fabrication and erection. Special care should be taken by the building erector to shim connections where key dimensions must be maintained for building performance as even small tolerances can have a significant impact on critical dimensions such as height, clearances and plumbness, especially as the size of the member or building increases. Conditions where shimming should be expected can include but are not limited to large door openings, critical clear height requirements, cranes, buildings greater than 45 feet in height, clear spans greater than 125 feet and adjacent frames with different characteristics (like clear span frames adjacent to an endwall or modular frame). Shims are normally provided by the erector, but may be ordered upon request by contacting your Project Manager.

EXISTING STRUCTURES

Butler must be advised of any structure that is within 20 ft. of Butler's building. Load effects from snow drifting, wind effects, and seismic separation must be considered for both the new and existing structures. Butler has designed the new Butler building for these effects. The owner/builder are responsible for employing a Professional Engineer to review and verify the existing structure for all load effects from the adjacent Butler building.

BRACING

Tension brace rods work in pairs to balance forces caused by initial tensioning. Care must be taken while tightening brace rods so as not to cause accidental or misalignment of components. All rods must be installed loose and then tightened. Rods should not exhibit excessive sag. For long or heavy rods, or angles it may be necessary to support the rods at mid–bay by suspending them from secondary members.

Bracing for seismic or wind loading of objects or equipment that are not a part of the Butler structure must be designed by a qualified professional to deliver lateral loads to primary frames and rod bracing struts. Equipment bracing and suspension connections must not impose torsion or minor axis loads, or cause local distortion in any Butler components. Butler accepts no responsibility for design or installation of bracing systems not furnished by Butler.

FIELD WELDING

All field welding shall be done at the direction of a design professional, and done in accordance with governing requirements (AWS in USA, CWB in Canada) by welders qualified to perform the welding as directed by the applicable welding procedure specification (WPS). A WPS shall be prepared by the contractor for each welding variation specified. The contractor is responsible for any special welding inspection as required by local jurisdiction. Filler metal shall be 70 ksi (480 MPa) tensile strength. For welds in high seismic force resisting systems (Seismic Cat D, E or F), minimum Charpy V–Notch toughness shall meet AISC work product of Butler Mfg. and design and performance requirements specified by Butler. (20 ft–lbs min @ 0Deg F). Interpass temperatures shall not exceed 550Deg F.

SIGNAGE

The Builder is responsible for furnishing signs as required by Code and the Building Department, including but not limited to, exits, occupancy limits, floor loading limits, and bulk storage limits. Floor loading signs shall clearly indicate maximum floor live load permitted.
Bulk storage facilities shall have signs clearly posted on all loaded walls indicating the type of commodity stored and the maximum storage height. Signs shall be clearly visible when building is fully loaded to design level. Overloading of floors or walls may result in failure.

DELIVERIES

It is the responsibility of the builder to have adequate equipment available at the job site to unload trucks in a safe and timely manner. The Builder will be responsible for all retention charges from carriers as a result of job site unloading delays.

Claims for damage or shorts MUST be noted on the Bill–of–Lading or delivery receipt and filed against the carrier by the consignee as per Butler's Terms of Sales (F.O.B. Plant) under the Uniform Commercial Code. It is critical that damages or shorts be noted on the Bill–of–Lading or you have little recourse with the carrier. Immediately upon delivery of material, material quantities are verified by the Builder against quantities billed on the shipping document. Neither the Manufacturer nor the carrier is responsible for material shortages against quantities billed on the shipping document if such shortages are not noted on the shipping documents upon delivery of material and acknowledged by the carriers agent. For materials concealed in bundles, boxes, or crates, shortages must be reported immediately upon unpacking. Should products get wet, bundled and crated materials must be unpacked and unbundled immediately to provide drainage of trapped moisture. See Erection Guide for proper job site storage procedure.

SEALANTS

Sealants shall be applied in strict accordance with Butler details or weather tightness will be compromised. Sealant must be applied in temperatures and weather conditions consistent with labeling.

INDEPENDENT MEZZANINES

Independent mezzanines must be designed by a professional engineer. The engineer must ensure that proper isolation from the Butler building has been provided to avoid structural damage due to differential movements, or inadvertently apply loads to the Butler structure. Butler accepts no responsibility for the design of the independent mezzanine.

FIRE CODE COMPLIANCE

It is the responsibility of the project design professional and builder to comply with local fire code regulations including consideration of, but not limited to, building use and occupancy, all building construction materials, separation requirements, egress requirements, fire protection systems, etc. Builder shall advise Butler of any special requirements to be furnished by Butler.

FIELD MODIFICATIONS

Modifications to this building from details and instructions contained on these drawings must be approved in writing by Butler Mfg. engineers, or other licensed structural engineer. This includes, but is not limited to, removal of roof or wall cladding, removing or moving any flange braces or rod braces, cutting of openings for doors, windows or RTU's, correction of fabrication errors, etc. The owner shall not impose loads to this structure beyond what is specified for this building in the contract documents. Butler Mfg. accepts no responsibility for the consequences of any unauthorized additions, alterations, or added loads to this structure.

If the builder intends to invoice Butler Mfg. for modifications in excess of $1000, The builder must notify Butler Mfg. immediately, and obtain a Work Authorization from Butler Mfg prior to proceeding. All final claims must be submitted to Butler Mfg with all supporting documentation within 30 days of the building completion. Claims submitted without work authorizations, or after 30 days will not be accepted. Correction of minor misfits, shimming and plumbing, moderate amount of reaming, drilling, chipping / cutting and minor welding are considered by Code of Standard Practice to be part of erection are not subject to claim reimbursement.

CONCRETE/MASONRY/CONVENTIONAL STUD WALLS

The engineer responsible for the design of the wall system is responsible for coordinating with, or specifying to Butler Mfg, any wall to steel compatibility issues such as drift and deflection compatibility, special base details, and wall to Butler steel connections. All fasteners, sealant and counter flashing of wall systems are to be provided by contractor. The engineer responsible for the wall shall design the anchorage to Butler supporting elements consistent with Code required forces.

PANELS

Oil canning is an inherent characteristic of cold formed steel panels. It is the result of several factors that include induced stresses in the raw material delivered to Butler, fabrication methods, installation procedures, and post installation thermal forces. Thru fastened panels will exhibit some dimpling when installed, especially when insulation is installed between panels and secondary supports. Dimpling can be minimized by careful installation, taking care not to over drive fasteners.

Roof rumble is a phenomenon that is caused by wind gusts lifting up on the roof panels and then springing back into place. All panels experience this action to some degree, especially with concealed clip Standing Seam panels. Roof rumble noise may be minimized by providing a layer of blanket insulation between the panels and any hard support surface such as steel secondary members, substrates such as plywood, steel decking, or rigid board insulation. A minimum of 3 inch thick blanket is recommended over steel secondary members, or 2 inch over substrates.

Oil canning, dimpling, and roof rumble do not affect the structural integrity or weather tightness of the panels and is not grounds for rejection of panels.

The Standing Seam joint detail is designed with an interlocking feature for ease of installation. However, it is imperative that installed Standing Seam panels be secured to the secondary structural members and properly seamed prior to departure from the job site each day.

SKYLIGHTS

Local building departments may require added fall restraint due to conditions that may affect the skylight structural integrity. It is the responsibility of the builder to determine and provide any added fall restraint under the skylight as may be required by your building department.

RAIN WATER RUNOFF

Drainage systems must be designed by the project professional to comply with code requirements. Butler is not responsible for drainage designs, overflow scuppers, down piping, etc. The project professional and contractor are responsible to ensure that primary drains and overflow devices such as scuppers and auxiliary drains are provided as required for the required rain intensity at the building perimeter and at valley conditions to prevent ponding.

STEEL SHOP COAT

The purpose of Butler's shop coat is to provide protection for the steel members during transportation, during temporary job site storage and during erection. Standard shop formulation is not designed to perform as a finish coat when exposed to environmental conditions. Members shall be kept free of the ground and properly drained during job site storage. It is the Builder's responsibility to ensure that if a finish coat is being applied over Butler shop coat that the painting contractor verifies compatibility between his finish coat and Butler's shop coat.

BUTLER MFG. ACCREDITATIONS AND APPROVALS

Fabricator Approvals

IAS AC472 Approvals: (www.iasonline.org/services/metal–building–inspection)
Listed under BlueScope Buildings North America, Inc.
City of Los Angeles, CA #FB00031; City of Houston, TX 767;
City of Phoenix, AZ C19–02008; Clark County, NV 43 & 833, San Bernardino County, CA 289, State of Utah, City of Richmond, Ca.

Design Approvals

IAS AC472 Approvals: (www.iasonline.org/services/metal–building–inspection)
Listed under Butler Manufacturing, a Division of BlueScope Buildings North America, Inc.

Canadian CSA A660 Certifications

(www.cwbgroup.org)
Listed under BlueScope Buildings North America, Inc.

Engineering Certifications of Authorization

USA––AL#CA–5589–E; AZ#22225–0; AR#576; FL#30427; GA#PEF007551; ID#C–2470; IL#184–002649; KS#E–29; KY#4490; LA#EF6722; MS#E–0592; MO#E–2010007736; NC#F–0998; ND#1579PE; NJ#24GA28318800; NV#20437; OH#05898; OK#CA4170PE; RI#8838; SC#6206; SD#C–1787; TX#F4828; VA#0411001520; VA#0411001518; WA#4119; WV#C03059–00
CAN––AB#P08900; NB#F0951; NL#D0044; NS#30123; NT#P062; ON#100148796; and YT#PP134

BID SET #1 - ADDENDUM 2

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Butler Manufacturing
1540 Genesee St. Kansas City, MO 64102

Rev:	Date:	By:	Description:

Drawing Scale: NTS

ERECTION NOTES

Builder: STEEL SOLUTIONS, INC.
Customer:
Location: Hollister, California
Project: Hippo Harvest
Builder's PO#: 20-04-990-21

BUTLER
Butler Manufacturing
VPC Version: 25.1.1

Job #:
Date: 6/27/2025
Drawn/Check: /
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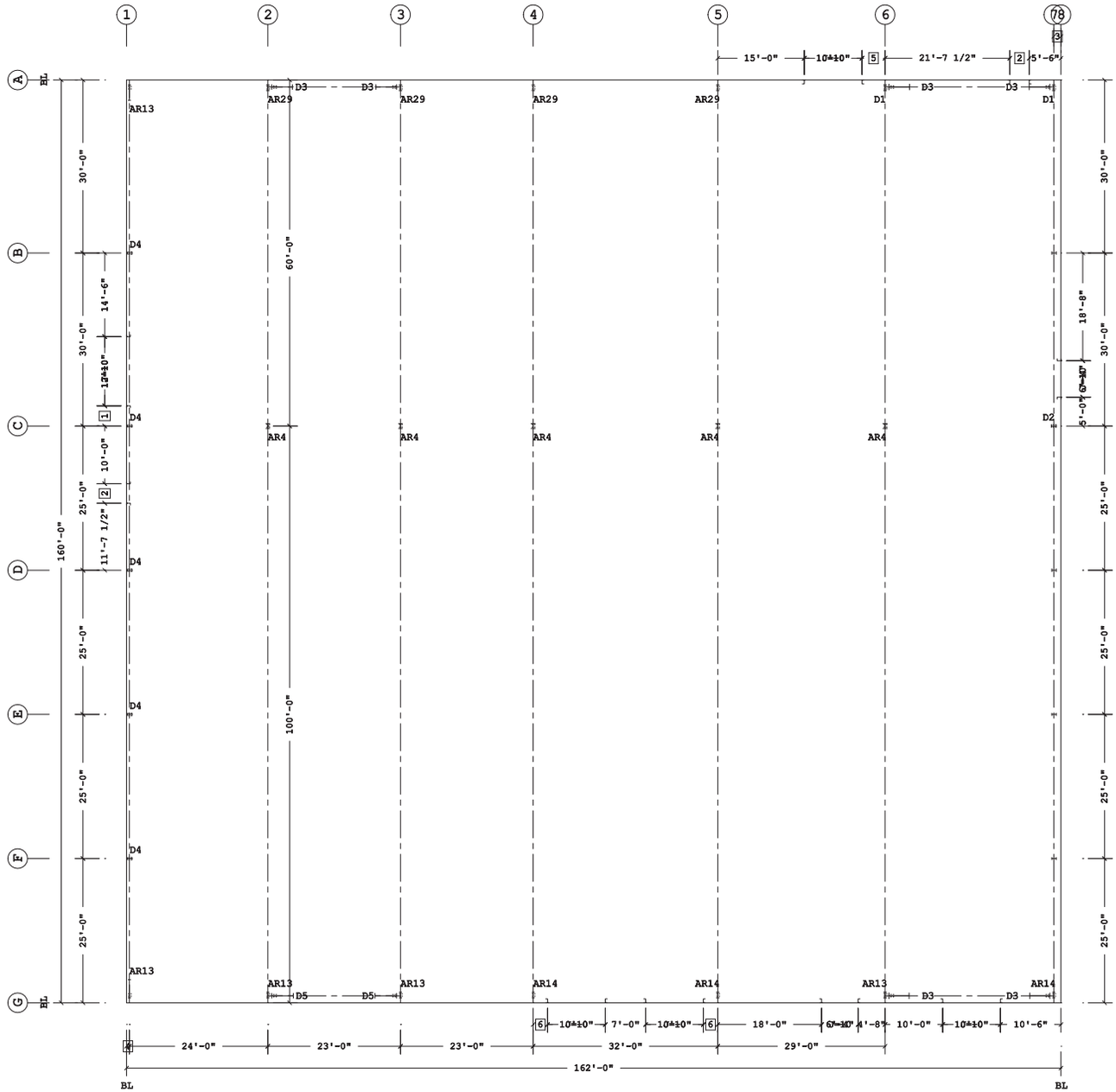
VPC Filename: designed 6/27/2025 17:32:16 a division of BlueScope Buildings North America, Inc.



ANCHOR ROD PLAN

Anchor Bolt Qty	
Qty	Bolt Diam
32	1 1/2"
12	1"
64	3/4"
16	1 1/4"
8	2"

6	2'-6"
5	4'-0"
4	6"
3	1'-3"
2	3'-4 1/2" J=10
1	3'-6"

☐ Dimension Key

Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)

BID SET #1 - ADDENDUM 2

<> The building is designed with bracing diagonals in the designated bays. Column base reactions, base plates and anchor rods are affected by this bracing and diagonals may not be relocated without consulting the building suppliers engineer.

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Rev:	Date:	By:	Description:

Drawing Scale: NTS

ANCHOR ROD PLAN

Builder: STEEL SOLUTIONS, INC.
Customer:
Location: Hollister, California
Project: Hippo Harvest
Builder's PO#: 20-04-990-21

Butler Manufacturing
VPC Version: 25.1.1

Job #:
Date: 6/27/2025
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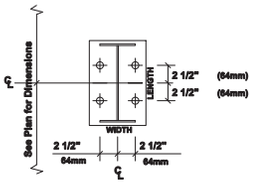
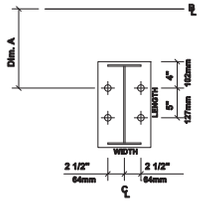
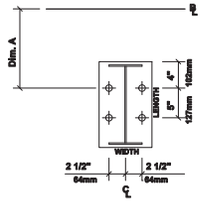


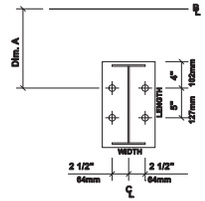
AR4 (4)3/4" Dia.
Max Plate W=10",L=11", Min Thk=3/8"
Elev.=100'-0"



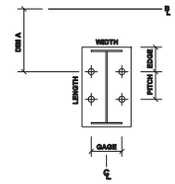
AR13 (4)3/4" Dia.
Max Plate W=8",L=3'-3", Min Thk=3/8"
Dim: A=1'-1 1/2"
Elev.=100'-0"



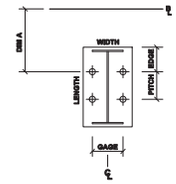
AR14 (4)1" Dia.
Max Plate W=8",L=1'-1", Min Thk=3/8"
Dim: A=1'-1 1/2"
Elev.=100'-0"



AR29 (4)1 1/4" Dia.
Max Plate W=9",L=1'-1", Min Thk=3/8"
Dim: A=1'-1 1/2"
Elev.=100'-0"



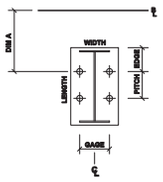
D1 (4)1 1/2" Dia.
Max Plate W=1'-0",L=1'-1", Min Thk=1/2"
Dim: A=1'-1 1/2"
Gage=6" Pitch=6" Edge Out=4"
Elev.=100'-0"



D2 (4)3/4" Dia.
Max Plate W=8",L=11", Min Thk=1/2"
Dim: A=1'-0 1/2"
Gage=5" Pitch=5" Edge Out=3"
Elev.=100'-0"

AR Portal Frame Column, 3 Plate, 4 bolt.dwg

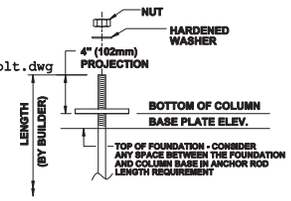
D3 (4)1 1/2" Dia.
Max Plate W=1'-1",L=3'-8", Min Thk=5/8"
Dim: A=11 1/2" B=1'-2 1/2"
Gage=6" Pitch=6" Edge Out=4"
Elev.=100'-0"



D4 (4)3/4" Dia.
Max Plate W=8",L=11", Min Thk=3/8"
Dim: A=4 1/8"
Gage=5" Pitch=5" Edge Out=3"
Elev.=100'-0"

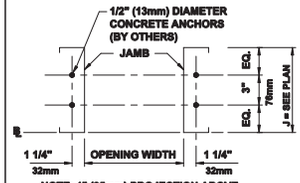
AR Portal Frame Column, 3 Plate, 4 bolt.dwg

D5 (4)2" Dia.
Max Plate W=1'-2",L=3'-10", Min Thk=
Dim: A=11 1/2" B=1'-2 1/2"
Gage=8" Pitch=8" Edge Out=4"
Elev.=100'-0"



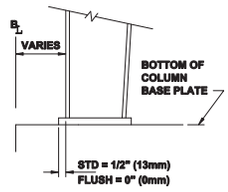
THE 4" PROJECTION ABOVE THE BOTTOM OF THE BASE PLATE IS A SUGGESTED MINIMUM TO ENSURE ADEQUATE ANCHOR ROD LENGTH. A DIFFERENT PROJECTION MAY BE REQUIRED BY THE FOUNDATION DESIGNER.
THE ANCHOR ROD PROJECTION MAY NEED TO BE CUT OFF IF THERE IS INTERFERENCE WITH OTHER PARTS.

SUGGESTED ANCHOR ROD PROJECTION



NOTE: 1" (25mm) PROJECTION ABOVE BOTTOM OF JAMB CLIP
SEE PLAN FOR JAMB SIZES : J = SIZE
JAMB 'EQ.' VALUES:
7 EQ = 2" 51mm, 8.5 EQ = 2 3/4" 70mm
10 EQ = 3 1/2" 89mm, 11.5 EQ = 4 1/4" 108mm

FRAMED OPENING DETAIL



TYPICAL COLUMN BASE PLATE DETAIL

1. ANCHOR RODS, NUTS, HARDENED WASHERS AND ANY OTHER EMBEDDED ITEMS ARE TO BE FURNISHED BY CONTRACTOR.
2. ANCHOR ROD DIAMETERS WERE DETERMINED BY ALLOWABLE SHEAR AND TENSION PER AISC SPECIFICATIONS (FY=36KSI). (ASTM F1554 GRADE 36) ANCHOR ROD LENGTH, EFFECTS OF EMBEDDED ANCHOR ROD EDGE DIMENSIONS AND METHOD OF TRANSFERRING FORCES FROM ANCHOR RODS TO FOOTINGS ARE TO BE DETERMINED BY OTHERS.
3. UNLESS OTHERWISE SPECIFIED, ANCHOR RODS ARE DESIGNED AND DETAILED AS "CAST-IN-PLACE" ANCHOR RODS WITH "SNUG TIGHT" CONNECTIONS.
4. FOUNDATION MUST BE LEVEL, SQUARE AND SMOOTH. ANCHOR RODS MUST BE ACCURATELY PLACED AS SHOWN ON THIS DRAWING OR STEEL WILL NOT FIT. THE BUILDER IS RESPONSIBLE FOR ACCURATE SETTING OF ANCHOR RODS PER AISC CODE OF STANDARD PRACTICE, SEC 7.5
   VARIATIONS ARE SUMMARIZED BELOW;
   a. CENTERS OF ANY TWO AR'S WITHIN A COLUMN BASE GROUP; +-1/8"
   b. CENTERS OF ADJACENT AR GROUPS; +-1/4"
   c. TOPS OF AR'S; +-1/2"
   d. ACCUMULATED DIM BETWEEN CENTERS OF AR GROUPS ALONG COLUMN LINE; +-1/4" PER 100FT., NOT TO EXCEED 1" TOTAL.
   e. DIM FROM CENTER OF ANY AR GROUP FROM COLUMN LINE; +-1/4"
5. DESIGN LOADS AND REACTIONS ARE FURNISHED IN THE REACTIONS REPORT.

BID SET #1 - ADDENDUM 2

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Butler Manufacturing
1540 Genessee St. Kansas City, MO 64102

Rev:	Date:	By:	Description:

Drawing Scale: NTS

ANCHOR ROD PLAN - DETAILS

Builder: STEEL SOLUTIONS, INC.
Customer:
Location: Hollister, California
Project: Hippo Harvest
Builder's PO#: 20-04-990-21

Butler Manufacturing
VPC Version: 25.1.1

Job #:
Date: 6/27/2025
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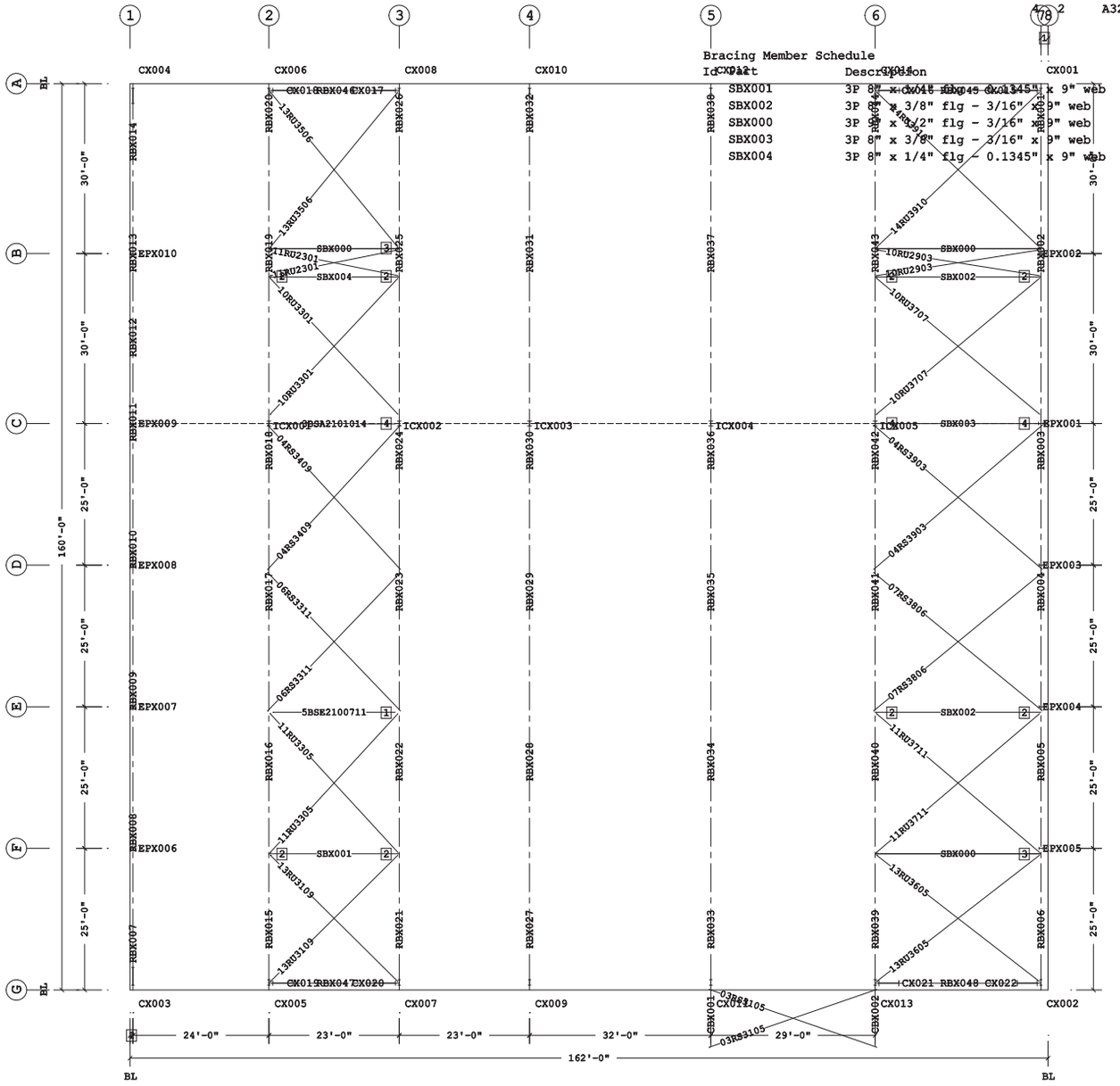
Rod, Strut, and Misc. Connection Bolts

Id	Qty	Grade	Bolt Diam.	Bolt Length	PartNo
1	2	A325	7/8"	3 1/2"	0097380
2	4	A325	3/4"	2 1/2"	0097284
3	0	A325	7/8"	3 1/2"	0097380
4	2	A325	3/4"	2 1/2"	0097284

Bracing Member Schedule

Id	Part	Description	Length	Vert. Clear
1	SBX001	3P 8" x 3/8" flg - 3/16" x 9" web	21'-10 13/16"	
2	SBX002	3P 8" x 3/8" flg - 3/16" x 9" web	28'-3 13/16"	
3	SBX000	3P 8" x 1/2" flg - 3/16" x 9" web	28'-8 5/16"	
4	SBX003	3P 8" x 3/8" flg - 3/16" x 9" web	29'-0 3/4"	
5	SBX004	3P 8" x 1/4" flg - 0.1345" x 9" web	22'-0 13/16"	



PRIMARY AND ROOF BRACING PLAN

Bracing Part Schedule

Part	Qty	Length	Detail
04RS3409	2	34'-9"	BR01G2
06RS3311	2	33'-11"	BR01G2
5BSE210071	1	21'-6 7/8"	BR15L1
11RU3305	2	33'-5"	BR02K1
13RU3109	2	31'-9"	BR02K1
04RS3903	2	39'-3"	BR01G2
07RS3806	2	38'-6"	BR01G2
11RU3711	2	37'-11"	BR02K1
13RU3605	2	36'-5"	BR02K1
10RU3707	2	37'-7"	BR02K1
10RU2903	2	29'-3"	BR02K1
14RU3910	2	39'-10"	BR02K1
3BSA210101	1	21'-7"	BR15L1
10RU3301	2	33'-1"	BR02K1
11RU2301	2	23'-1"	BR02K1
13RU3506	2	35'-6"	BR02K1
03RS3105	2	31'-5"	BR01G2

2 6"
1 1'-3"
Dimension Key

Shape Name = Building - Hippo Harvest Budget

BID SET #1 - ADDENDUM 2

1. Use 1/2 x 1 1/2 A325T Bolt (49080) and Nut (47120) w/o washers. Snug tighten bolts for all secondary connections, secondary clip connections, and flange brace connections, unless noted otherwise.
2. Slot reinforcement plates need not be located on the same side of the web as the hillside washer.

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Butler Manufacturing
1540 Genesse St. Kansas City, MO 64102

Rev:	Date:	By:	Description:

Drawing Scale: NTS

PRIMARY AND ROOF BRACING PLAN

Builder: STEEL SOLUTIONS, INC.
Customer:
Location: Hollister, California
Project: Hippo Harvest
Builder's PO#: 20-04-990-21

Butler Manufacturing
VPC Version: 25.1.1

Job #:
Date: 6/27/2025
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Frame Member Schedule

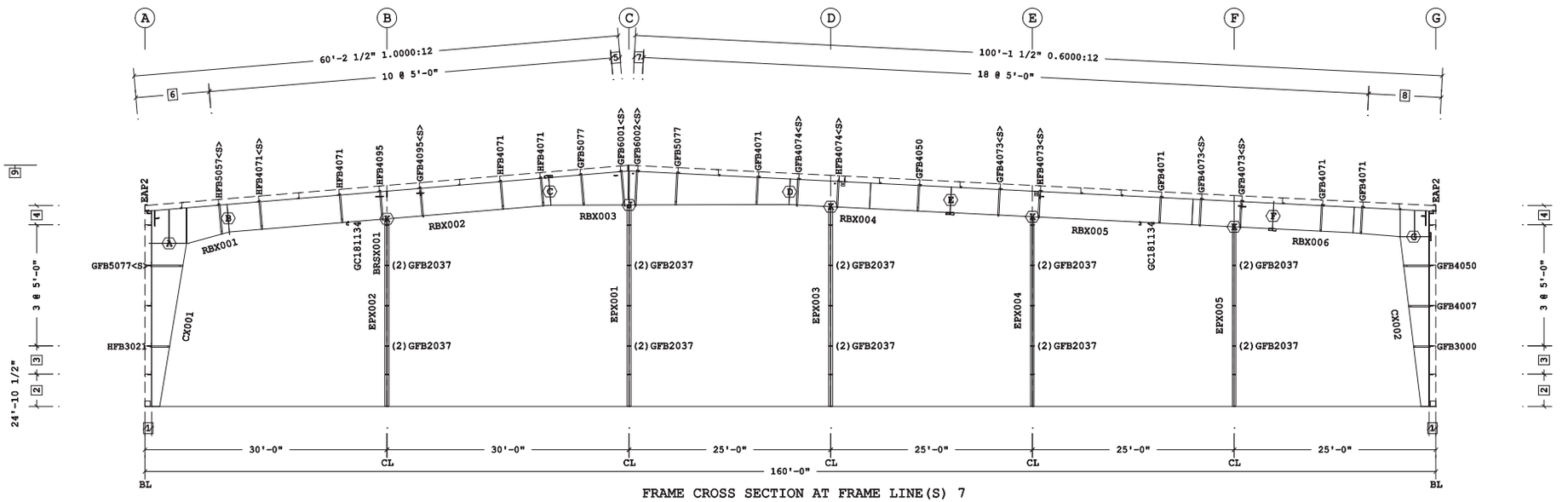
Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight	Detail
CX001	1	6.0000	.6250	.2500	1'-0"	4'-4"	20'-2 7/16"	1207#	
RBX001	2	9.0000	.5000	.2500	4'-4"	3'-5"	10'-2 3/8"	1042#	
RBX002	3	8.0000	.6250	.1875	3'-5"	3'-5"	40'-0"	2564#	
RBX003	4	6.0000	.5000	.2500	3'-5"	4'-2 3/8"	30'-0"	1819#	
	5	6.0000	.5000	.2500	4'-2 1/2"	3'-2"			
RBX004	6	6.0000	.3750	.1875	3'-2"	3'-2"	20'-0 1/16"	969#	
	7	6.0000	.6250	.1875	3'-2"	3'-2"			
RBX005	8-9	8.0000	.5000	.1875	3'-2"	3'-2"	40'-0"	2180#	
RBX006	10	6.0000	.3125	.1875	3'-2"	3'-2"	20'-1 1/8"	893#	
	11	6.0000	.3750	.1875	3'-2"	3'-4"			
CX002	12	5.0000	.3750	.2500	1'-0"	3'-7"	21'-0 5/16"	817#	
EPX001	13	6.0000	.2500	.1644	10"	10"	24'-11 7/16"	419#	BR25CA
EPX002	14	6.0000	.2500	.1345	9"	9"	23'-1 5/16"	345#	BR25BD
EPX003	15	6.0000	.2500	.1345	9"	9"	24'-7 7/16"	366#	BR25CA
EPX004	16	5.0000	.2500	.1644	9"	9"	23'-4 7/16"	329#	BR25CA
EPX005	17	5.0000	.2500	.1644	9"	9"	22'-1 7/16"	310#	BR25CA

Bolt Connection & Plate Schedule

Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	Tension Bolt	Washer	Part No.
A	16	F1852	1 1/8"	3 3/4"	1"	4	4	Yes	Yes	0097340
B	12	F1852	1"	3 1/2"	1"	4	2	Yes	Yes	0097339
C	8	F1852	7/8"	3"	5/8"	3	1	Yes	Yes	0097337
D	4	F1852	3/4"	2"	3/8"	1	1	Yes	Yes	0097388
E	8	F1852	7/8"	3"	5/8"	1	3	Yes	Yes	0097397
F	10	F1852	3/4"	2 1/4"	1/2"	2	3	Yes	Yes	0097389
G	14	F1852	3/4"	2 1/2"	5/8"	4	3	Yes	Yes	0097390
J	4	A325	1/2"	2"	3/8"	1	1			0097280
K	2	A325	3/4"	2 1/2"	-	-	-			0097284

<S> - (2) Washers (095872) req'd at Flange Brace to Secondary.

Frame Clearances
Horiz. Clearance between members 1(CX001) and 12(CX002): 150'-5"
Vert. Clearance at member 1(CX001): 20'-2 7/16"
Vert. Clearance at member 12(CX002): 21'-0 5/16"
Vert. Clearance at member 13(EPX001): 24'-11 7/16"
Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



FRAME CROSS SECTION AT FRAME LINE(S) 7

9 29'-10 1/2" Ridge Ht.
8 2 @ 4'-6 1/16"
7 1'-1 3/8"
6 2 @ 4'-6 3/4"
5 1'-1"
4 2'-4 1/2"
3 3'-6"
2 4'-0"
1 10"

Dimension Key

Shape Name = Building - Hippo Harvest Budget Wall 2, Frame 1

BID SET #1 - ADDENDUM 2

1. Use 1/2 x 1 1/2 A325T Bolt (49060) and Nut (47120) w/o washers. Snug tighten bolts for all secondary connections, secondary clip connections, and flange brace connections, unless noted otherwise.
2. Slot reinforcement plates need not be located on the same side of the web as the hillside washer.

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Butler Manufacturing
1540 Genessee St. Kansas City, MO 64102

Rev:	Date:	By:	Description:

Drawing Scale: NTS

FRAME CROSS SECTION AT FRAME LINE(S) 7

Builder: STEEL SOLUTIONS, INC.
Customer:
Location: Hollister, California
Project: Hippo Harvest
Builder's PO#: 20-04-990-21

Butler Manufacturing
VPC Version: 25.1.1

Job #:
Date: 6/27/2025
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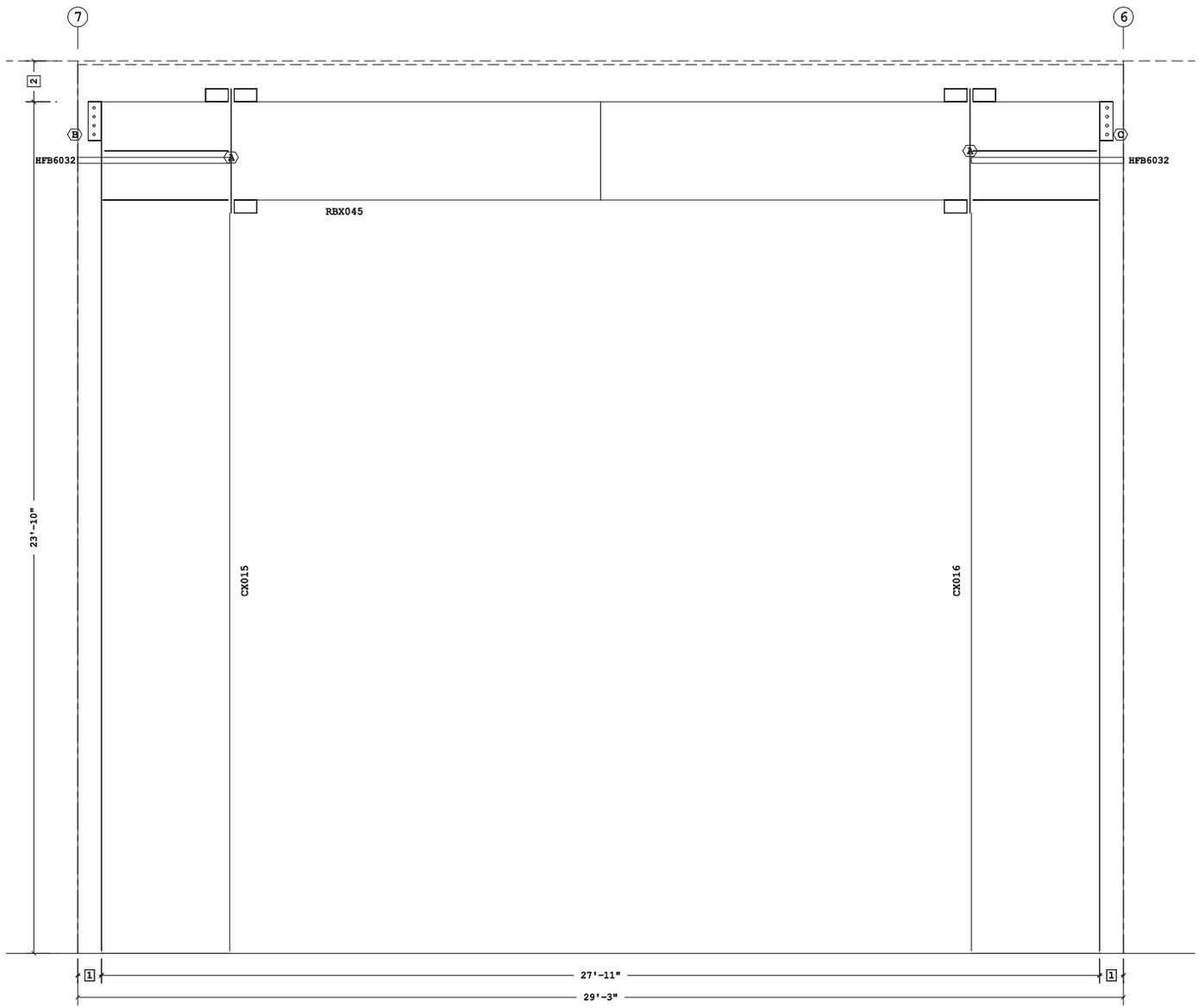
Frame Member Schedule

Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight
CX015	1	12.0000	.5000	.2500	3'-7"	3'-7"	23'-10"	2200#
RBX045	2-3	9.0000	.5000	.2500	2'-9"	2'-9"	20'-8"	1413#
CX016	4	12.0000	.5000	.2500	3'-7"	3'-7"	23'-10"	2200#

Bolt Connection & Plate Schedule

Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo
A	16	A325	1 1/2"	5"	1"	4	4	0097576
B	2	A325	3/4"	2 1/2"	-	-	-	0097284
C	4	A325	7/8"	3 1/2"	-	-	-	0097380

Frame Clearances
Horiz. Clearance between members 1(CX015) and 4(CX016): 20'-9"
Vert. Clearance at member 1(CX015): 20'-8 5/8"
Vert. Clearance at member 4(CX016): 20'-8 5/8"
Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



PORTAL FRAME ELEVATION ALONG A

2 1'-1 11/16"
1 8"
Dimension Key

Shape Name = Building - Hippo Harvest Budget Wall 2, Frame 1

BID SET #1 - ADDENDUM 2

1. Use 1/2 x 1 1/2 A325T Bolt (49060) and Nut (47120) w/o washers. Snug tighten bolts for all secondary connections, secondary clip connections, and flange brace connections, unless noted otherwise.
2. Slot reinforcement plates need not be located on the same side of the web as the hillside washer.

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Butler Manufacturing
1540 Genesee St. Kansas City, MO 64102

Rev:	Date:	By:	Description:

Drawing Scale: NTS

PORTAL FRAME ELEVATION ALONG A (a)

Builder: STEEL SOLUTIONS, INC.
Customer:
Location: Hollister, California
Project: Hippo Harvest
Builder's PO#: 20-04-990-21

Butler Manufacturing
VPC Version: 25.1.1

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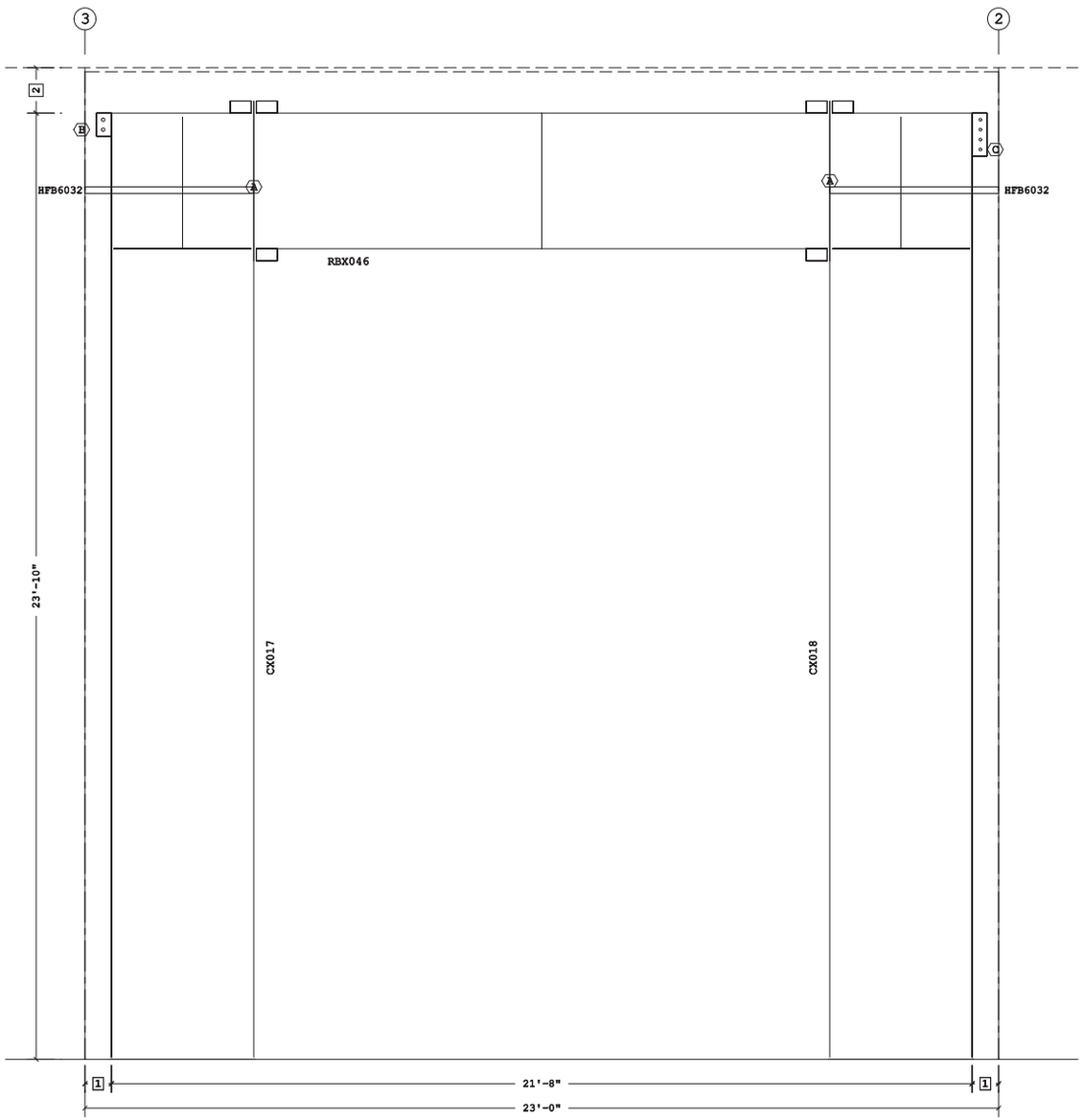
Frame Member Schedule

Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight
CX017	1	10.0000	.7500	.2500	3'-7"	3'-7"	23'-10"	2307#
RBX046	2-3	8.0000	.5000	.2500	3'-5"	3'-5"	14'-6"	1054#
CX018	4	10.0000	.7500	.2500	3'-7"	3'-7"	23'-10"	2310#

Bolt Connection & Plate Schedule

Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo
A	16	A325	1 1/8"	4"	3/4"	4	4	0097289
B	2	A325	1"	3 1/2"	-	-	-	0097288
C	2	A325	3/4"	2 1/2"	-	-	-	0097284

Frame Clearances
Horiz. Clearance between members 1(CX017) and 4(CX018): 14'-6"
Vert. Clearance at member 1(CX017): 20'-1 3/8"
Vert. Clearance at member 4(CX018): 20'-1 3/8"
Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



PORTAL FRAME ELEVATION ALONG A

2 1'-1 11/16"
1 8"
Dimension Key

Shape Name = Building - Hippo Harvest Budget Wall 2, Frame 5

BID SET #1 - ADDENDUM 2

1. Use 1/2 x 1 1/2 A325T Bolt (49060) and Nut (47120) w/o washers. Snug tighten bolts for all secondary connections, secondary clip connections, and flange brace connections, unless noted otherwise.
2. Slot reinforcement plates need not be located on the same side of the web as the hillside washer.

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1540 Genesee St. Kansas City, MO 64102

Rev:	Date:	By:	Description:

Drawing Scale: NTS

PORTAL FRAME ELEVATION ALONG A (b)

Builder: STEEL SOLUTIONS, INC.
Customer:
Location: Hollister, California
Project: Hippo Harvest
Builder's PO#: 20-04-990-21

Butler Manufacturing
VPC Version: 25.1.1

Job #:
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Frame Member Schedule

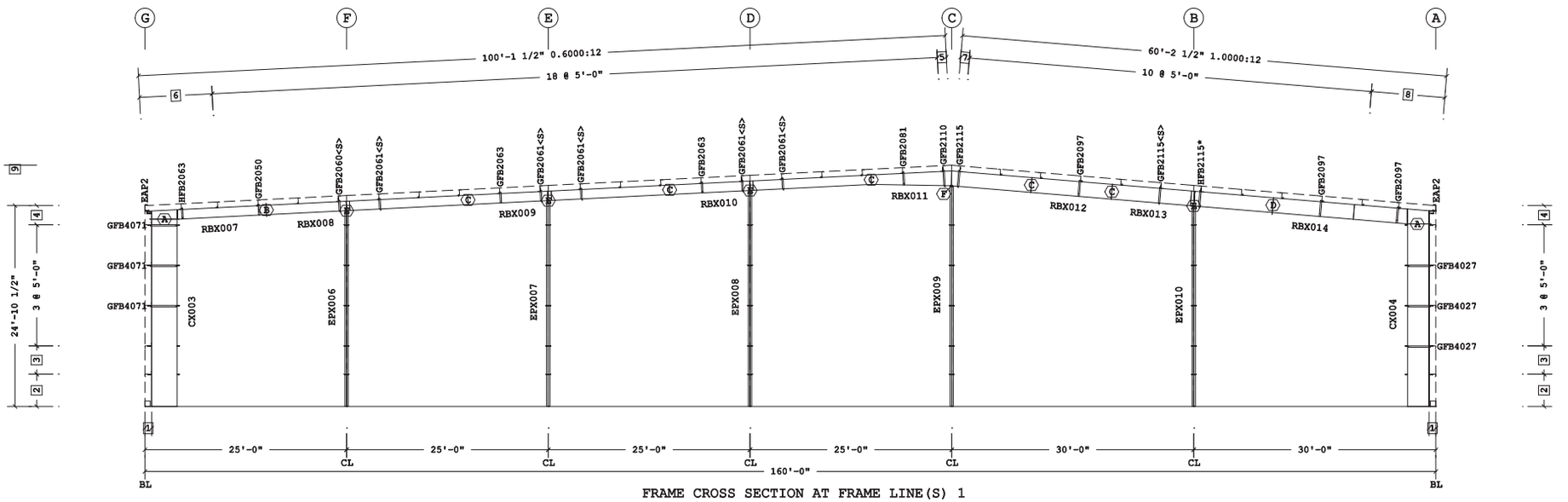
Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight	Detail
CX003	1	5.0000	.3750	.1875	3'-2"	3'-2"	23'-2 3/8"	940#	
RBX007	2	8.0000	.6250	.1644	1'-2"	1'-2"	15'-0 5/16"	650#	
RBX008	3	5.0000	.3125	.1644	1'-2"	1'-2"	25'-0 3/16"	432#	
	4	5.0000	.2500	.1345	1'-2"	1'-2"			
RBX009	5-6	5.0000	.1345	.1345	1'-2"	1'-2"	25'-0 3/8"	294#	
RBX010	7-8	5.0000	.1345	.1345	1'-2"	1'-2"	25'-0 1/4"	294#	
RBX011	9	5.0000	.1875	.1345	1'-2"	1'-9 15/16"	20'-0"	331#	
	10	5.0000	.1875	.1345	1'-9 15/16"	1'-9 15/16"			
RBX012	11	5.0000	.1875	.1345	1'-9 15/16"	1'-9 15/16"	10'-0"	191#	
RBX013	12-13	5.0000	.1875	.1345	1'-9 15/16"	1'-9 15/16"	20'-0 3/8"	362#	
RBX014	14	6.0000	.2500	.1875	1'-9 15/16"	1'-9 15/16"	20'-2"	540#	
	15	6.0000	.3750	.1345	1'-9 15/16"	1'-9 15/16"			
CX004	16	5.0000	.2500	.1644	2'-8"	2'-8"	22'-7 3/16"	673#	
EPX006	17	5.0000	.1345	.1875	10"	10"	24'-3 1/8"	284#	BR25CA
EPX007	18	5.0000	.1875	.1644	10"	10"	25'-6 1/8"	322#	BR25CA
EPX008	19	5.0000	.1875	.1644	10"	10"	26'-9 1/8"	337#	BR25CA
EPX009	20	5.0000	.1875	.1644	10"	10"	27'-4"	341#	BR25A3
EPX010	21	5.0000	.1875	.1644	10"	10"	24'-10 3/16"	314#	BR25CA

Bolt Connection & Plate Schedule

Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	Tension Bolt	Washer	PartNo
A	14	F1852	3/4"	2 1/2"	5/8"	3	4	Yes	Yes	095590
B	10	F1852	3/4"	2 1/4"	1/2"	2	3	Yes	Yes	095589
C	4	F1852	3/4"	2"	3/8"	1	1	Yes	Yes	095588
D	6	F1852	3/4"	2"	3/8"	1	2	Yes	Yes	095588
E	4	A325	1/2"	1 1/2"	3/8"	1	1		Yes	49680
F	4	A325	1/2"	1 1/2"	3/8"	1	1		Yes	49680

<S> - (2) Washers (095872) req'd at Flange Brace to Secondary.

Frame Clearances
Horiz. Clearance between members 1(CX003) and 16(CX004): 152'-6"
Vert. Clearance at member 1(CX003): 23'-2 3/8"
Vert. Clearance at member 16(CX004): 22'-7 3/16"
Vert. Clearance at member 17(EPX006): 24'-3"
Vert. Clearance at member 18(EPX007): 25'-6"
Vert. Clearance at member 19(EPX008): 26'-9"
Vert. Clearance at member 20(EPX009): 27'-3 15/16"
Vert. Clearance at member 21(EPX010): 24'-9 15/16"
Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



FRAME CROSS SECTION AT FRAME LINE(S) 1

GFB or HFB with * must use bearing plate JCP051140 (see Detail BR25DH)

9 29'-10 1/2" Ridge Ht.
8 2 @ 4'-6 3/4"
7 1'-1"
6 2 @ 4'-6 1/16"
5 1'-1 3/8"
4 2'-4 1/2"
3 3'-6"
2 4'-0"
1 10"

Dimension Key

Shape Name = Building - Hippo Harvest Budget Wall 4, Frame 1

BID SET #1 - ADDENDUM 2

1. Use 1/2 x 1 1/2 A325T Bolt (49080) and Nut (47120) w/o washers. Snug tighten bolts for all secondary connections, secondary clip connections, and flange brace connections, unless noted otherwise.
2. Slot reinforcement plates need not be located on the same side of the web as the hillside washer.

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Butler Manufacturing
1540 Genessee St. Kansas City, MO 64102

Rev:	Date:	By:	Description:

Drawing Scale: NTS

FRAME CROSS SECTION AT FRAME LINE(S) 1

Builder: STEEL SOLUTIONS, INC.
Customer:
Location: Hollister, California
Project: Hippo Harvest
Builder's PO#: 20-04-990-21

Butler Manufacturing
VPC Version: 25.1.1

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Frame Member Schedule

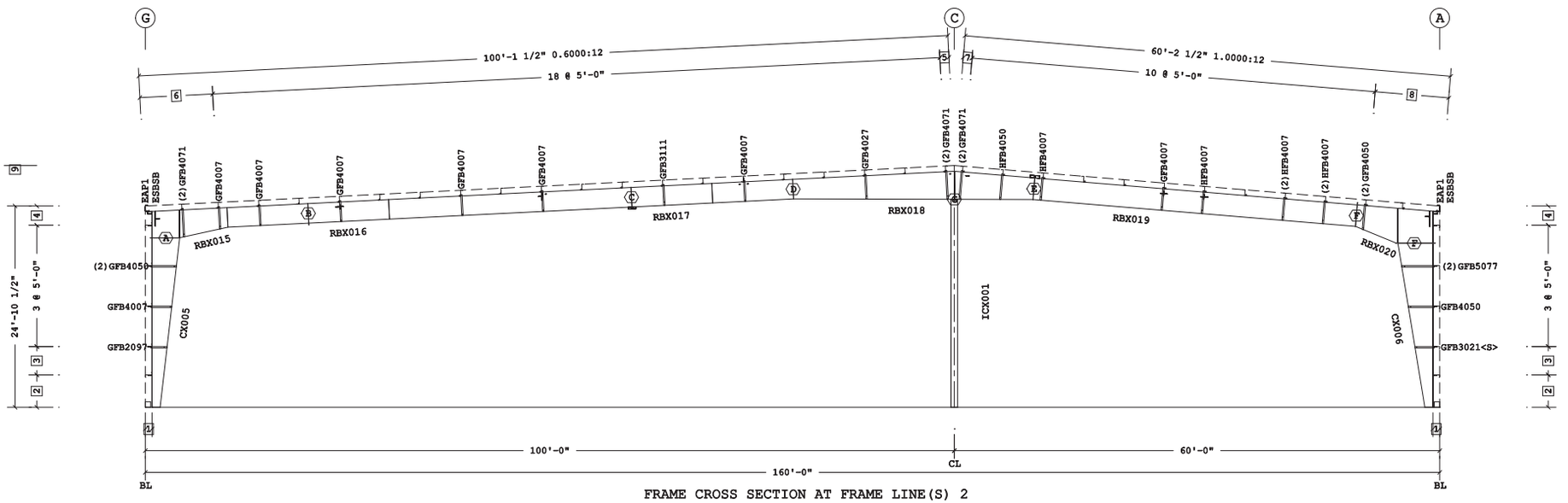
Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight	Detail
CX005	1	5.0000	.3125	.1875	1'-0"	3'-5"	20'-11 3/16"	633#	
RBX015	2	5.0000	.3125	.1875	3'-5"	2'-5"	20'-1 1/8"	725#	
	3	5.0000	.3750	.1644	2'-5"	2'-5"			
RBX016	4	8.0000	.3750	.1875	2'-5"	2'-5"	40'-0"	1784#	
	5	8.0000	.5000	.1644	2'-5"	2'-5"			
RBX017	6	6.0000	.6250	.1644	2'-5"	2'-5"	20'-0 1/16"	774#	
	7	6.0000	.3750	.1644	2'-5"	2'-5"			
RBX018	8	6.0000	.6250	.1875	2'-5"	3'-5 1/2"	30'-0"	1503#	
	9	6.0000	.6250	.1875	3'-5 3/8"	2'-8"			
RBX019	10	8.0000	.6250	.1875	2'-8"	2'-8"	40'-0"	2307#	
RBX020	11	9.0000	.5000	.2500	2'-8"	4'-3"	10'-2 3/8"	976#	
CX006	12	6.0000	.3750	.2500	1'-0"	4'-4"	20'-3 7/16"	1002#	
ICX001	13	8.0000	.3750	.1644	10"	10"	25'-8 7/16"	677#	BRxxxx

Bolt Connection & Plate Schedule

Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	Tension Bolt	Washer	Part No
A	10	F1852	3/4"	2 1/2"	5/8"	3	2	Yes	Yes	0097390
B	14	F1852	3/4"	2 1/4"	1/2"	3	4	Yes	Yes	0097349
C	10	F1852	3/4"	2 1/2"	5/8"	2	3	Yes	Yes	0097390
D	4	F1852	3/4"	2"	3/8"	1	1	Yes	Yes	0097388
E	10	F1852	1"	2 3/4"	5/8"	4	1	Yes	Yes	0097402
F	12	F1852	1"	3 1/2"	1"	3	3	Yes	Yes	0097546
G	4	A325	1/2"	2"	3/8"	1	1			0097280

<S> - (2) Washers (095872) req'd at Flange Brace to Secondary.

Frame Clearances
Horiz. Clearance between members 1(CX005) and 12(CX006): 150'-7"
Vert. Clearance at member 1(CX005): 20'-11 3/16"
Vert. Clearance at member 12(CX006): 20'-3 7/16"
Vert. Clearance at member 13(ICX001): 25'-8 7/16"
Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



FRAME CROSS SECTION AT FRAME LINE(S) 2

9 29'-10 1/2" Ridge Ht.
8 2 @ 4'-6 3/4"
7 1'-1"
6 2 @ 4'-6 1/16"
5 1'-1 3/8"
4 2'-4 1/2"
3 3'-6"
2 4'-0"
1 10"

☐ Dimension Key

Shape Name = Building - Hippo Harvest Budget Wall 4, Frame 2

BID SET #1 - ADDENDUM 2

1. Use 1/2 x 1 1/2 A325T Bolt (49060) and Nut (47120) w/o washers. Snug tighten bolts for all secondary connections, secondary clip connections, and flange brace connections, unless noted otherwise.
2. Slot reinforcement plates need not be located on the same side of the web as the hillside washer.

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C

Butler Manufacturing
1540 Genessee St. Kansas City, MO 64102

Rev:	Date:	By:	Description:

Drawing Scale: NTS

FRAME CROSS SECTION AT FRAME LINE(S) 2

Builder: STEEL SOLUTIONS, INC.
Customer:
Location: Hollister, California
Project: Hippo Harvest
Builder's PO#: 20-04-990-21

Butler Manufacturing
VPC Version: 25.1.1

Job #:
Date: 6/27/2025
Drawn/Check: /
Page:

Frame Member Schedule

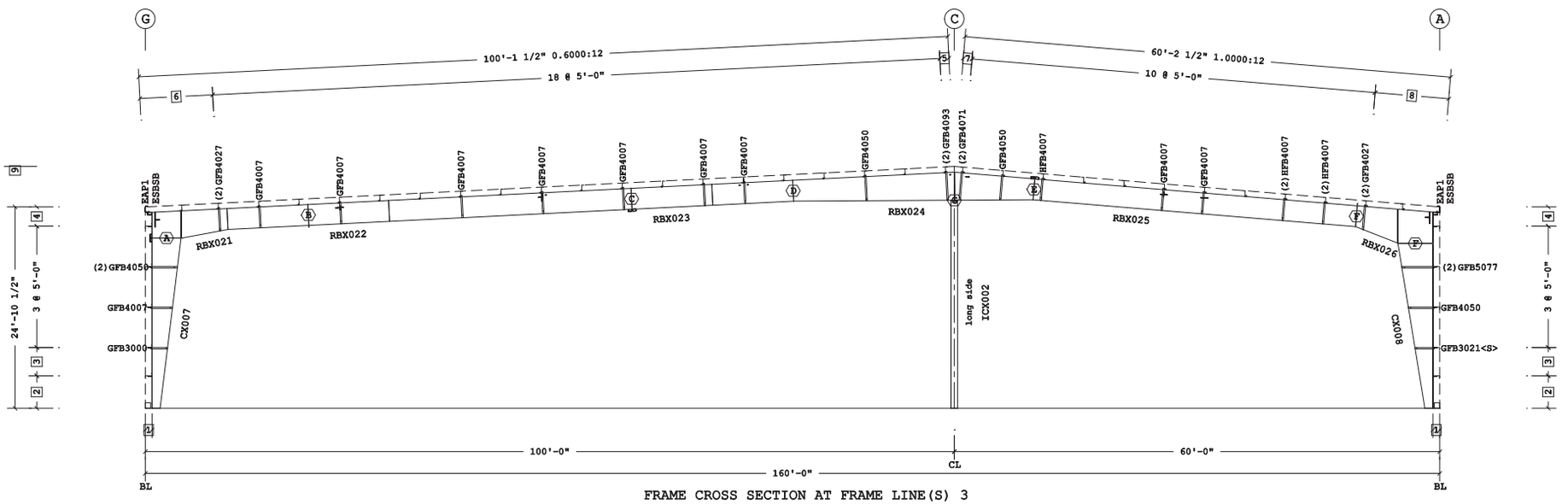
Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight	Detail
CX007	1	5.0000	.2500	.2500	1'-0"	3'-7"	21'-0 3/8"	722#	
RBX021	2	5.0000	.3125	.1875	3'-4"	2'-7"	20'-1 1/8"	731#	
	3	5.0000	.3750	.1644	2'-7"	2'-7"			
RBX022	4	8.0000	.3750	.1644	2'-7"	2'-7"	40'-0"	1812#	
	5	8.0000	.5000	.1644	2'-7"	2'-7"			
RBX023	6	6.0000	.6250	.1644	2'-7"	2'-7"	20'-0 1/16"	800#	
	7	6.0000	.3750	.1644	2'-7"	2'-7"			
RBX024	8	6.0000	.5000	.1875	2'-7"	3'-5 1/2"	30'-0"	1396#	
	9	6.0000	.6250	.1875	3'-5 3/8"	2'-7"			
RBX025	10	8.0000	.6250	.1644	2'-7"	2'-7"	40'-0"	2172#	
RBX026	11	9.0000	.5000	.2500	2'-7"	4'-2"	10'-2 3/8"	936#	
CX008	12	6.0000	.3750	.2500	1'-0"	4'-4"	20'-4 7/16"	991#	
ICX002	13	8.0000	.3750	.1644	10"	10"	25'-8 7/16"	677#	BRxxxx

Bolt Connection & Plate Schedule

Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	Tension Bolt	Washer	Part No
A	14	F1852	3/4"	2 1/4"	1/2"	4	3	Yes	Yes	0097389
B	14	F1852	3/4"	2 1/4"	1/2"	3	4	Yes	Yes	0097389
C	8	F1852	3/4"	2 1/2"	5/8"	1	3	Yes	Yes	0097390
D	6	F1852	3/4"	2"	3/8"	1	2	Yes	Yes	0097388
E	10	F1852	3/4"	2 1/2"	5/8"	4	1	Yes	Yes	0097390
F	12	F1852	1"	3 1/2"	1"	3	3	Yes	Yes	0097546
G	4	A325	1/2"	2"	3/8"	1	1			0097280

<S> - (2) Washers (095872) req'd at Flange Brace to Secondary.

Frame Clearances
Horiz. Clearance between members 1(CX007) and 12(CX008): 150'-5"
Vert. Clearance at member 1(CX007): 21'-0 3/8"
Vert. Clearance at member 12(CX008): 20'-4 7/16"
Vert. Clearance at member 13(ICX002): 25'-8 7/16"
Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



FRAME CROSS SECTION AT FRAME LINE(S) 3

9 29'-10 1/2" Ridge Ht.
8 2 @ 4'-6 3/4"
7 1'-1"
6 2 @ 4'-6 1/16"
5 1'-1 3/8"
4 2'-4 1/2"
3 3'-6"
2 4'-0"
1 10"

☐ Dimension Key

Shape Name = Building - Hippo Harvest Budget Wall 4, Frame 3

BID SET #1 - ADDENDUM 2

1. Use 1/2 x 1 1/2 A325T Bolt (49060) and Nut (47120) w/o washers. Snug tighten bolts for all secondary connections, secondary clip connections, and flange brace connections, unless noted otherwise.
2. Slot reinforcement plates need not be located on the same side of the web as the hillside washer.

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Butler Manufacturing
1540 Genessee St. Kansas City, MO 64102

Rev:	Date:	By:	Description:

Drawing Scale: NTS

FRAME CROSS SECTION AT FRAME LINE(S) 3

Builder: STEEL SOLUTIONS, INC.
Customer:
Location: Hollister, California
Project: Hippo Harvest
Builder's PO#: 20-04-990-21

Butler Manufacturing
VPC Version: 25.1.1

Job #:
Date: 6/27/2025
Drawn/Check: /
Page:

Frame Member Schedule

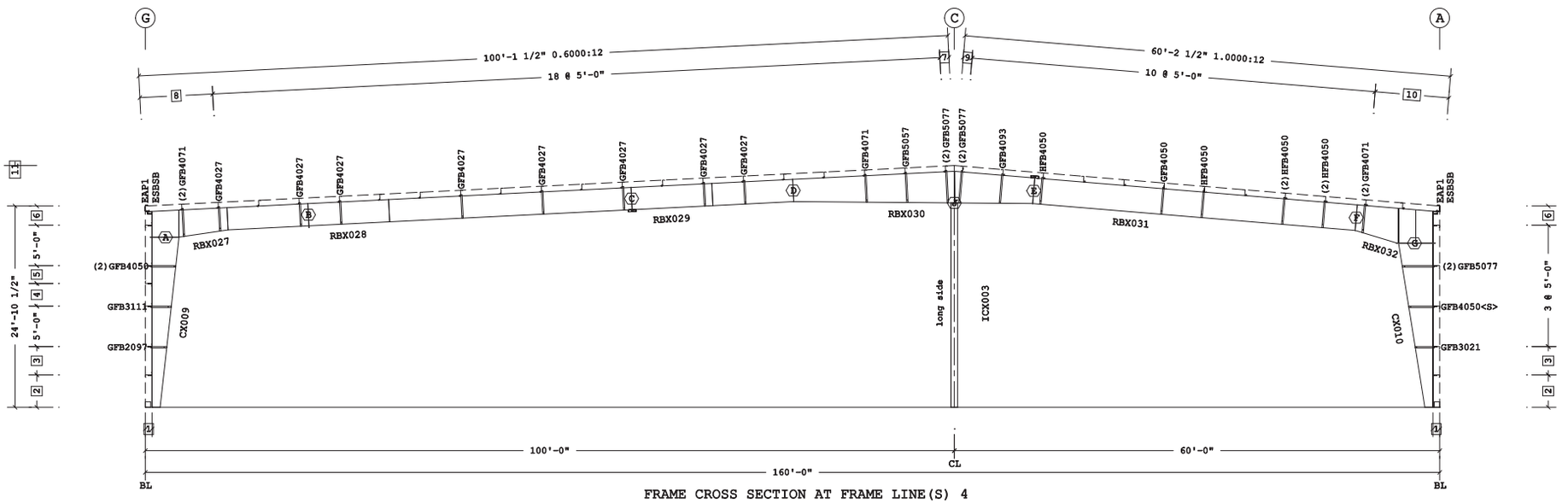
Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight	Detail
CX009	1	5.0000	.3750	.1875	1'-0"	3'-4"	21'-0 3/16"	673#	
RBX027	2	5.0000	.3750	.1875	3'-4"	2'-9"	20'-1 1/8"	753#	
	3	5.0000	.3750	.1644	2'-9"	2'-9"			
RBX028	4	8.0000	.3750	.1875	2'-9"	2'-9"	40'-0"	1853#	
	5	8.0000	.5000	.1644	2'-9"	2'-9"			
RBX029	6	6.0000	.5000	.1875	2'-9"	2'-9"	20'-0 1/16"	775#	
	7	6.0000	.3125	.1644	2'-9"	2'-9"			
RBX030	8	6.0000	.5000	.2500	2'-9"	3'-10 13/16"	30'-0"	1706#	
	9	6.0000	.5000	.2500	3'-10 11/16"	3'-2"			
RBX031	10	8.0000	.6250	.1875	3'-2"	3'-2"	40'-0"	2442#	
RBX032	11	9.0000	.5000	.2500	3'-2"	4'-3"	10'-2 3/8"	979#	
CX010	12	6.0000	.5000	.2500	1'-0"	4'-3"	20'-3 3/8"	1090#	
ICX003	13	9.0000	.3750	.1644	10"	10"	25'-3 1/8"	732#	BRxxxx

Bolt Connection & Plate Schedule

Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	Tension Bolt	Washer	Part No
A	16	F1852	3/4"	2 1/2"	5/8"	4	4	Yes	Yes	0097390
B	14	F1852	3/4"	2 1/4"	1/2"	3	4	Yes	Yes	0097389
C	10	F1852	3/4"	2 1/2"	5/8"	1	4	Yes	Yes	0097390
D	4	F1852	3/4"	2"	3/8"	1	1	Yes	Yes	0097388
E	10	F1852	7/8"	3"	5/8"	4	1	Yes	Yes	0097397
F	14	F1852	1"	3 1/2"	1"	4	3	Yes	Yes	0097546
G	12	F1852	1"	3 1/2"	1"	3	3	Yes	Yes	0097546
J	4	A325	1/2"	2"	3/8"	1	1			0097280

<S> - (2) Washers (095872) req'd at Flange Brace to Secondary.

Frame Clearances
Horiz. Clearance between members 1(CX009) and 12(CX010): 150'-9"
Vert. Clearance at member 1(CX009): 21'-0 3/16"
Vert. Clearance at member 12(CX010): 20'-3 3/8"
Vert. Clearance at member 13(ICX003): 25'-3 1/16"
Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



FRAME CROSS SECTION AT FRAME LINE(S) 4

11 29'-10 1/2" Ridge Ht.
10 2 @ 4'-6 3/4"
9 1'-1"
8 2 @ 4'-6 1/16"
7 1'-1 3/8"
6 2'-4 1/2"
5 2'-2 1/2"
4 2'-9 1/2"
3 3'-6"
2 4'-0"
1 10"

Dimension Key

Shape Name = Building - Hippo Harvest Budget Wall 4, Frame 4

BID SET #1 - ADDENDUM 2

1. Use 1/2 x 1 1/2 A325T Bolt (46060) and Nut (47120) w/o washers. Snug tighten bolts for all secondary connections, secondary clip connections, and flange brace connections, unless noted otherwise.
2. Slot reinforcement plates need not be located on the same side of the web as the hillside washer.

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Butler Manufacturing
1540 Genessee St. Kansas City, MO 64102

Rev:	Date:	By:	Description:

Drawing Scale: NTS

FRAME CROSS SECTION AT FRAME LINE(S) 4

Builder: STEEL SOLUTIONS, INC.
Customer:
Location: Hollister, California
Project: Hippo Harvest
Builder's PO#: 20-04-990-21

Butler Manufacturing
VPC Version: 25.1.1

Job #:
Date: 6/27/2025
Drawn/Check: /
Page:

Frame Member Schedule

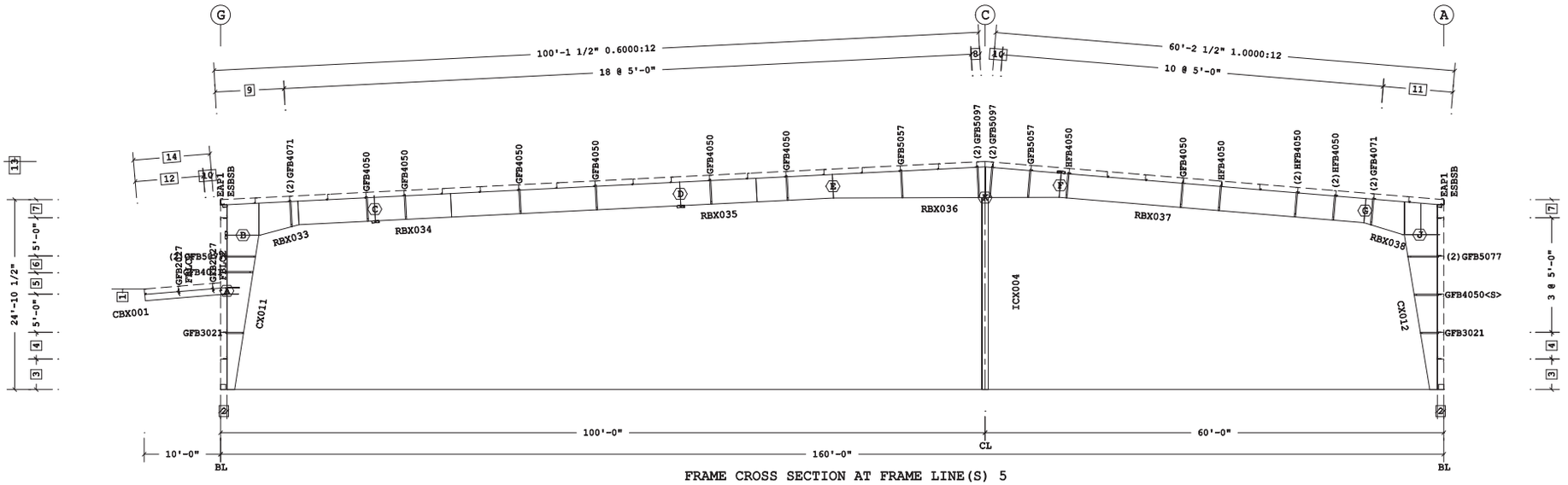
Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight	Detail
CBX001	1000 1	5.0000	.1875	.1345	10"	10"	10'-9 3/16"	127#	
CX011	1	6.0000	.3125	.2500	1'-0"	4'-2"	20'-2 5/8"	888#	
RBX033	2	6.0000	.3125	.2500	4'-2"	3'-1"	20'-1 1/8"	1009#	
	3	6.0000	.3750	.1875	3'-1"	3'-1"			
RBX034	4-5	8.0000	.5000	.1875	3'-1"	3'-1"	40'-0"	2111#	
RBX035	6	6.0000	.6250	.1875	3'-1"	3'-1"	20'-0 1/16"	947#	
	7	6.0000	.3750	.1875	3'-1"	3'-1"			
RBX036	8	6.0000	.5000	.2500	3'-1"	4'-0 1/8"	30'-0"	1758#	
	9	6.0000	.5000	.2500	4'-0"	3'-2"			
RBX037	10	8.0000	.6250	.1875	3'-2"	3'-2"	40'-0"	2442#	
RBX038	11	9.0000	.5000	.2500	3'-2"	4'-3"	10'-2 3/8"	987#	
CX012	12	6.0000	.5000	.2500	1'-0"	4'-4"	20'-3 7/16"	1101#	
ICX004	13	9.0000	.3750	.1644	10"	10"	25'-1 3/4"	729#	BRxxxx

Bolt Connection & Plate Schedule

Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	Tension Bolt	Washer	Part No.
A	4	A325	7/8"	3 1/2"	5/8"	1	1			0097396
B	14	F1852	3/4"	2 1/2"	5/8"	4	3	Yes	Yes	0097390
C	12	F1852	3/4"	2 1/4"	1/2"	2	4	Yes	Yes	0097389
D	10	F1852	7/8"	3"	5/8"	1	4	Yes	Yes	0097397
E	8	F1852	3/4"	2"	3/8"	1	3	Yes	Yes	0097388
F	8	F1852	7/8"	3"	5/8"	3	1	Yes	Yes	0097397
G	14	F1852	1"	3 1/2"	1"	4	3	Yes	Yes	0097546
J	12	F1852	1"	3 1/2"	1"	3	3	Yes	Yes	0097546
K	4	A325	1/2"	2"	3/8"	1	1			0097280

<S> - (2) Washers (095872) req'd at Flange Brace to Secondary.

Frame Clearances
Horiz. Clearance between members 1(CX011) and 12(CX012): 149'-10"
Vert. Clearance at member 1(CX011): 20'-2 5/8"
Vert. Clearance at member 12(CX012): 20'-3 7/16"
Vert. Clearance at member 13(ICX004): 25'-1 3/4"
Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



FRAME CROSS SECTION AT FRAME LINE(S) 5

14 10'-0 7/16" 1.0000:12
13 29'-10 1/2" Ridge Ht.
12 2 @ 4'-5 3/4"
11 2 @ 4'-6 3/4"
10 1'-1"
9 2 @ 4'-6 1/16"
8 1'-1 3/8"
7 2'-4 1/2"
6 2'-2 1/2"
5 2'-9 1/2"
4 3'-6"
3 4'-0"
2 10"
1 13'-2"

Dimension Key

Shape Name = Building - Hippo Harvest Budget Wall 4, Frame 5

BID SET #1 - ADDENDUM 2

1. Use 1/2 x 1 1/2 A325T Bolt (49080) and Nut (47120) w/o washers. Snug tighten bolts for all secondary connections, secondary clip connections, and flange brace connections, unless noted otherwise.
2. Slot reinforcement plates need not be located on the same side of the web as the hillside washer.

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1540 Genessee St. Kansas City, MO 64102

Rev:	Date:	By:	Description:

Drawing Scale: NTS

FRAME CROSS SECTION AT FRAME LINE(S) 5

Builder: STEEL SOLUTIONS, INC.
Customer:
Location: Hollister, California
Project: Hippo Harvest
Builder's PO#: 20-04-990-21

Butler Manufacturing
VPC Version: 25.1.1

Job #:
Date: 6/27/2025
Drawn/Check: /
Page:

VPC Filename: designed
6/27/2025 17:12:39
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Frame Member Schedule

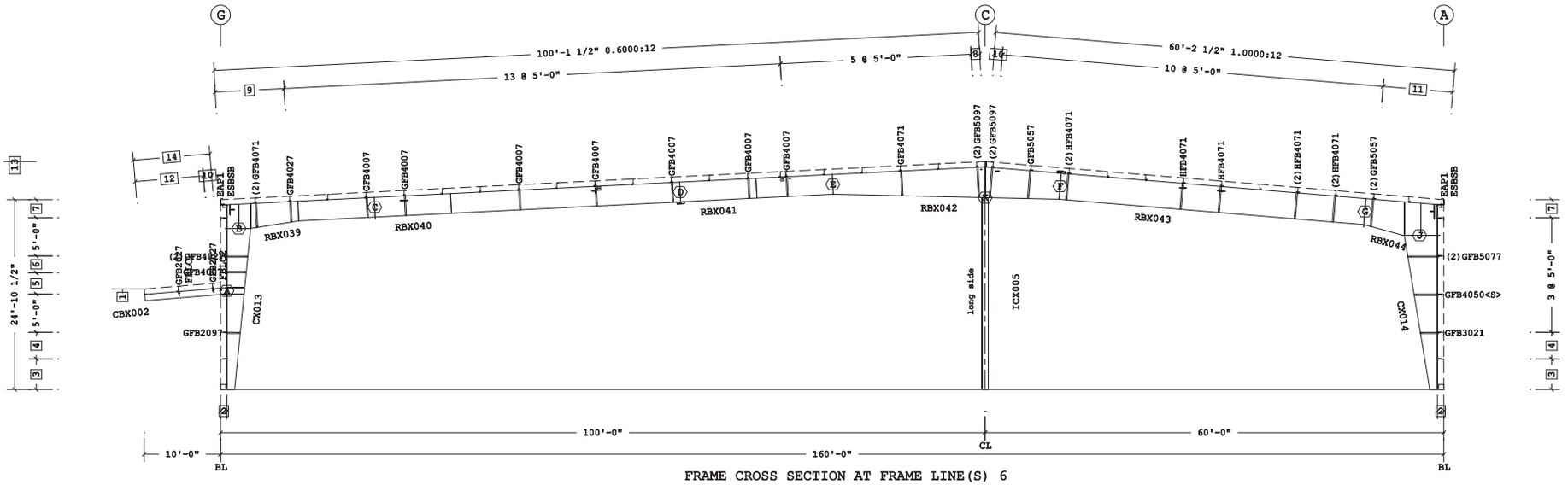
Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight	Detail
CBX002	1000 1	5.0000	.1875	.1345	10"	10"	10'-9 1/4"	127#	
CX013	1	6.0000	.3750	.1875	1'-0"	3'-1"	21'-1 1/16"	739#	
RBX039	2	5.0000	.3750	.1875	3'-3"	2'-7"	20'-1 1/8"	770#	
	3	5.0000	.3750	.1644	2'-7"	2'-7"			
RBX040	4	8.0000	.5000	.1644	2'-7"	2'-7"	40'-0"	1935#	
	5	8.0000	.5000	.1875	2'-7"	2'-7"			
RBX041	6	6.0000	.6250	.1644	2'-7"	2'-7"	20'-0 1/16"	774#	
	7	6.0000	.3125	.1644	2'-7"	2'-7"			
RBX042	8	6.0000	.6250	.2500	2'-7"	4'-0 3/16"	30'-0"	1875#	
	9	6.0000	.6250	.2500	4'-0 1/16"	3'-5"			
RBX043	10	8.0000	.6250	.1875	3'-5"	3'-5"	40'-0"	2557#	
RBX044	11	9.0000	.5000	.2500	3'-5"	4'-4"	10'-2 3/8"	1042#	
CX014	12	6.0000	.5000	.3125	1'-0"	4'-4"	20'-2 7/16"	1240#	
ICX005	13	9.0000	.3750	.1644	10"	10"	25'-1 13/16"	729#	BRxxxx

Bolt Connection & Plate Schedule

Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	Tension Bolt	Washer	Part No.
A	4	A325	7/8"	3 1/2"	5/8"	1	1			0097386
B	14	F1852	3/4"	2 1/2"	5/8"	4	3	Yes	Yes	0097396
C	14	F1852	3/4"	2 1/4"	1/2"	3	4	Yes	Yes	0097389
D	10	F1852	3/4"	2 1/2"	5/8"	2	3	Yes	Yes	0097390
E	8	F1852	3/4"	2"	3/8"	3	1	Yes	Yes	0097388
F	12	F1852	7/8"	3"	5/8"	4	2	Yes	Yes	0097397
G	12	F1852	1"	3 1/2"	1"	4	2	Yes	Yes	0097546
J	16	F1852	1 1/8"	3 3/4"	1"	4	4	Yes	Yes	49341
K	4	A325	1/2"	2"	3/8"	1	1			0097280

<S> - (2) Washers (095872) req'd at Flange Brace to Secondary.

Frame Clearances
Horiz. Clearance between members 1(CX013) and 12(CX014): 150'-11"
Vert. Clearance at member 1(CX013): 21'-1 1/16"
Vert. Clearance at member 12(CX014): 20'-2 7/16"
Vert. Clearance at member 13(ICX005): 25'-1 5/8"
Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



FRAME CROSS SECTION AT FRAME LINE(S) 6

14 10'-0 7/16" 1.0000:12
13 29'-10 1/2" Ridge Ht.
12 2 @ 4'-5 3/4"
11 2 @ 4'-6 3/4"
10 1'-1"
9 2 @ 4'-6 1/16"
8 1'-1 3/8"
7 2'-4 1/2"
6 2'-2 1/2"
5 2'-9 1/2"
4 3'-6"
3 4'-0"
2 10"
1 13'-2"

Dimension Key

Shape Name = Building - Hippo Harvest Budget Wall 4, Frame 6

BID SET #1 - ADDENDUM 2

1. Use 1/2 x 1 1/2 A325T Bolt (49080) and Nut (47120) w/o washers. Snug tighten bolts for all secondary connections, secondary clip connections, and flange brace connections, unless noted otherwise.
2. Slot reinforcement plates need not be located on the same side of the web as the hillside washer.

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C | Butler Manufacturing
1540 Genessee St. Kansas City, MO 64102

Rev:	Date:	By:	Description:

Drawing Scale: NTS

FRAME CROSS SECTION AT FRAME LINE(S) 6

Builder: STEEL SOLUTIONS, INC.
Customer:
Location: Hollister, California
Project: Hippo Harvest
Builder's PO#: 20-04-990-21

Butler Manufacturing
VPC Version: 25.1.1

Job #:
Date: 6/27/2025
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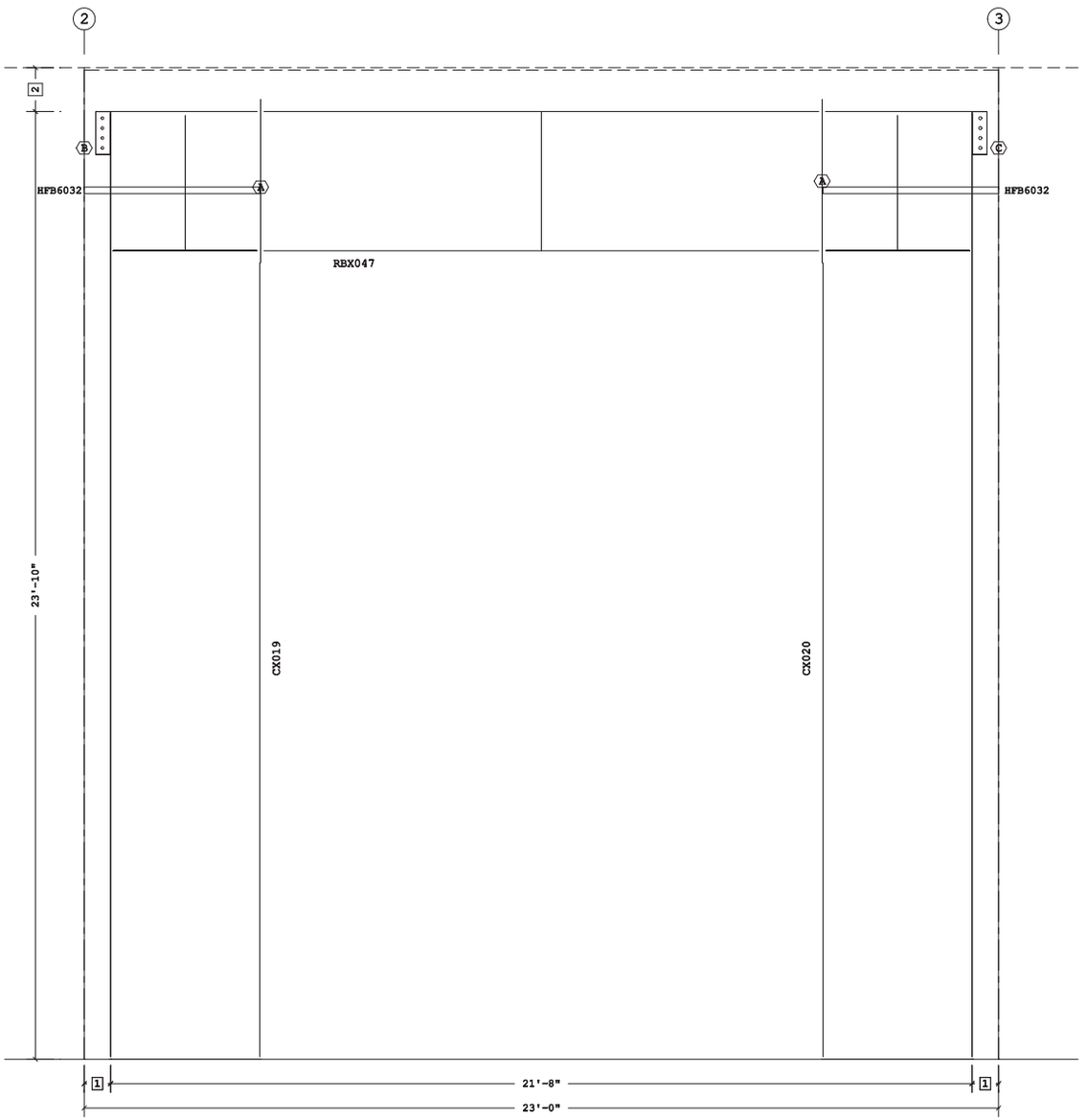
Frame Member Schedule

Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight
CX019	1	10.0000	.7500	.2500	3'-9"	3'-9"	23'-10"	2437#
RBX047	2-3	8.0000	.5000	.3125	3'-6"	3'-6"	14'-1 1/2"	1212#
CX020	4	10.0000	.7500	.2500	3'-9"	3'-9"	23'-10"	2437#

Bolt Connection & Plate Schedule

Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo
A	16	A325	1 1/8"	4"	1"	4	4	0097289
B	2	A325	3/4"	2 1/2"	-	-	-	0097284
C	4	A325	7/8"	3 1/2"	-	-	-	0097380

Frame Clearances
Horiz. Clearance between members 1(CX019) and 4(CX020): 14'-2"
Vert. Clearance at member 1(CX019): 20'-0 3/8"
Vert. Clearance at member 4(CX020): 20'-0 3/8"
Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



PORTAL FRAME ELEVATION ALONG G

2 1'-1 1/4"
1 8"
Dimension Key

Shape Name = Building - Hippo Harvest Budget Wall 4, Frame 2

BID SET #1 - ADDENDUM 2

1. Use 1/2 x 1 1/2 A325T Bolt (49060) and Nut (47120) w/o washers. Snug tighten bolts for all secondary connections, secondary clip connections, and flange brace connections, unless noted otherwise.
2. Slot reinforcement plates need not be located on the same side of the web as the hillside washer.

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Butler Manufacturing
1540 Genesee St. Kansas City, MO 64102

Rev:	Date:	By:	Description:

Drawing Scale: NTS

PORTAL FRAME ELEVATION ALONG G (a)

Builder: STEEL SOLUTIONS, INC.
Customer:
Location: Hollister, California
Project: Hippo Harvest
Builder's PO#: 20-04-990-21

Butler Manufacturing
VPC Version: 25.1.1

Job #:
Date: 6/27/2025
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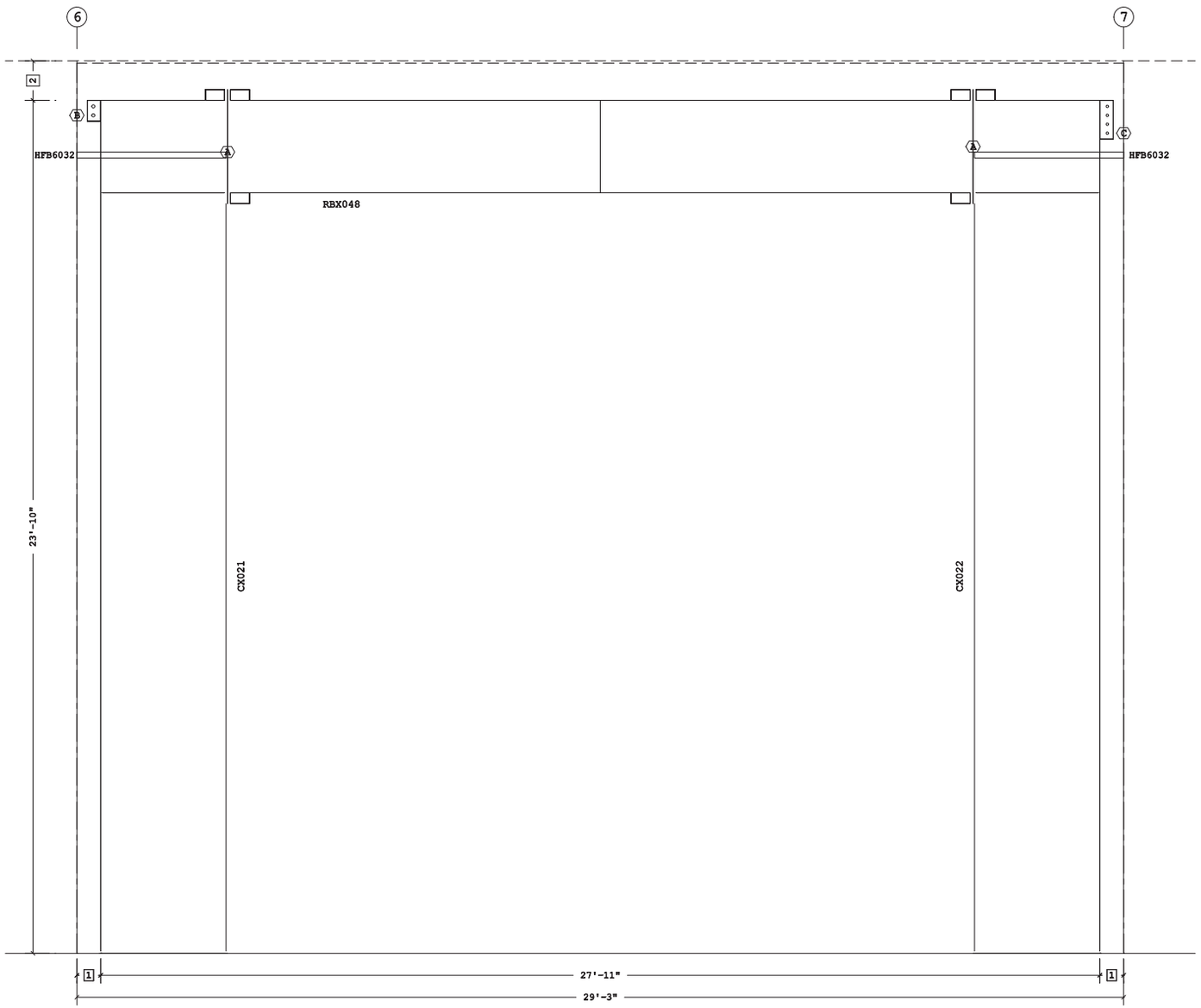
Frame Member Schedule

Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight
CX021	1	12.0000	.5000	.1875	3'-6"	3'-6"	23'-10"	1947#
RBX048	2-3	9.0000	.5000	.2500	2'-7"	2'-7"	20'-10"	1365#
CX022	4	12.0000	.5000	.1875	3'-6"	3'-6"	23'-10"	1950#

Bolt Connection & Plate Schedule

Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo
A	16	A325	1 1/8"	4"	1"	4	4	0097289
B	2	A325	1"	3 1/2"	-	-	-	0097288
C	2	A325	3/4"	2 1/2"	-	-	-	0097284

Frame Clearances
Horiz. Clearance between members 1(CX021) and 4(CX022): 20'-11"
Vert. Clearance at member 1(CX021): 20'-11 3/8"
Vert. Clearance at member 4(CX022): 20'-11 3/8"
Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



PORTAL FRAME ELEVATION ALONG G

2 1'-1 1/4"
1 8"
Dimension Key

Shape Name = Building - Hippo Harvest Budget Wall 4, Frame 6

BID SET #1 - ADDENDUM 2

1. Use 1/2 x 1 1/2 A325T Bolt (49060) and Nut (47120) w/o washers. Snug tighten bolts for all secondary connections, secondary clip connections, and flange brace connections, unless noted otherwise.
2. Slot reinforcement plates need not be located on the same side of the web as the hillside washer.

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Butler Manufacturing
1540 Genesee St. Kansas City, MO 64102

Rev:	Date:	By:	Description:

Drawing Scale: NTS

PORTAL FRAME ELEVATION ALONG G (b)

Builder: STEEL SOLUTIONS, INC.
Customer:
Location: Hollister, California
Project: Hippo Harvest
Builder's PO#: 20-04-990-21

Butler Manufacturing
VPC Version: 25.1.1

Job #:
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Secondary Part Schedule

Mark	Part	Thick.	Depth	Lap	Detail
E1	08C2905414BDB3	0.0790	8 1/2"		RSB004, RSB003, RSB002, RSB001
E10	10E2211414DDB31	0.0790	10"		RS12PE, RS12PJ
E11	10E2405414BDB31	0.0790	10"		RS12PF, RS12PE, RS12PJ
E2	10E2405411BDB31	0.1130	10"		RS12PF, RS12PE, RS12PJ
E3	10E2211411DDB31	0.1130	10"		RS12PE, RS12PJ
E4	10E3111411DDB31	0.1130	10"		RS12PE, RS12PJ
E5	10E2811411DDB31	0.1130	10"		RS12PE, RS12PJ
E6	10E3005411DVB31	0.1130	10"		RS12PF, RS12PE, RS12PJ
E7	10E3005414DVB31	0.0790	10"		RS12PF, RS12PE, RS12PJ
E8	10E2811414DDB31	0.0790	10"		RS12PE, RS12PJ
E9	10E3111414DDB31	0.0790	10"		RS12PE, RS12PJ
P1	08Z2911411BBB3	0.1130	8 1/2"		
P10	08Z340544##V5B3	0.1130	8 1/2"	3'-10 1/2"	RS02T1, BR18E2, RS01T1
P11	08Z340544##V5B1	0.1130	8 1/2"		RS02T1, BR18E2, RS01T1
P12	08Z361141355B2	0.0880	8 1/2"	3'-10 1/2"	RS01T1
P2	08Z29114##BBB3	0.1130	8 1/2"		
P3	08Z2705415B4B3	0.0730	8 1/2"	2'-10 1/2"	RS02T1, RS01T1
P4	08Z2705416B4B3	0.0680	8 1/2"	2'-10 1/2"	RS02T1, RS01T1
P5	08Z281141644B2	0.0680	8 1/2"	2'-10 1/2"	RS01T1
P6	08Z281141344B2	0.0880	8 1/2"	2'-10 1/2"	RS01T1
P7	08Z391141555B2	0.0730	8 1/2"	3'-10 1/2"	RS01T1
P8	08Z361141455B2	0.0790	8 1/2"	3'-10 1/2"	RS01T1
P9	08Z3405411V5B3	0.1130	8 1/2"	3'-10 1/2"	RS02T1, RS01T1

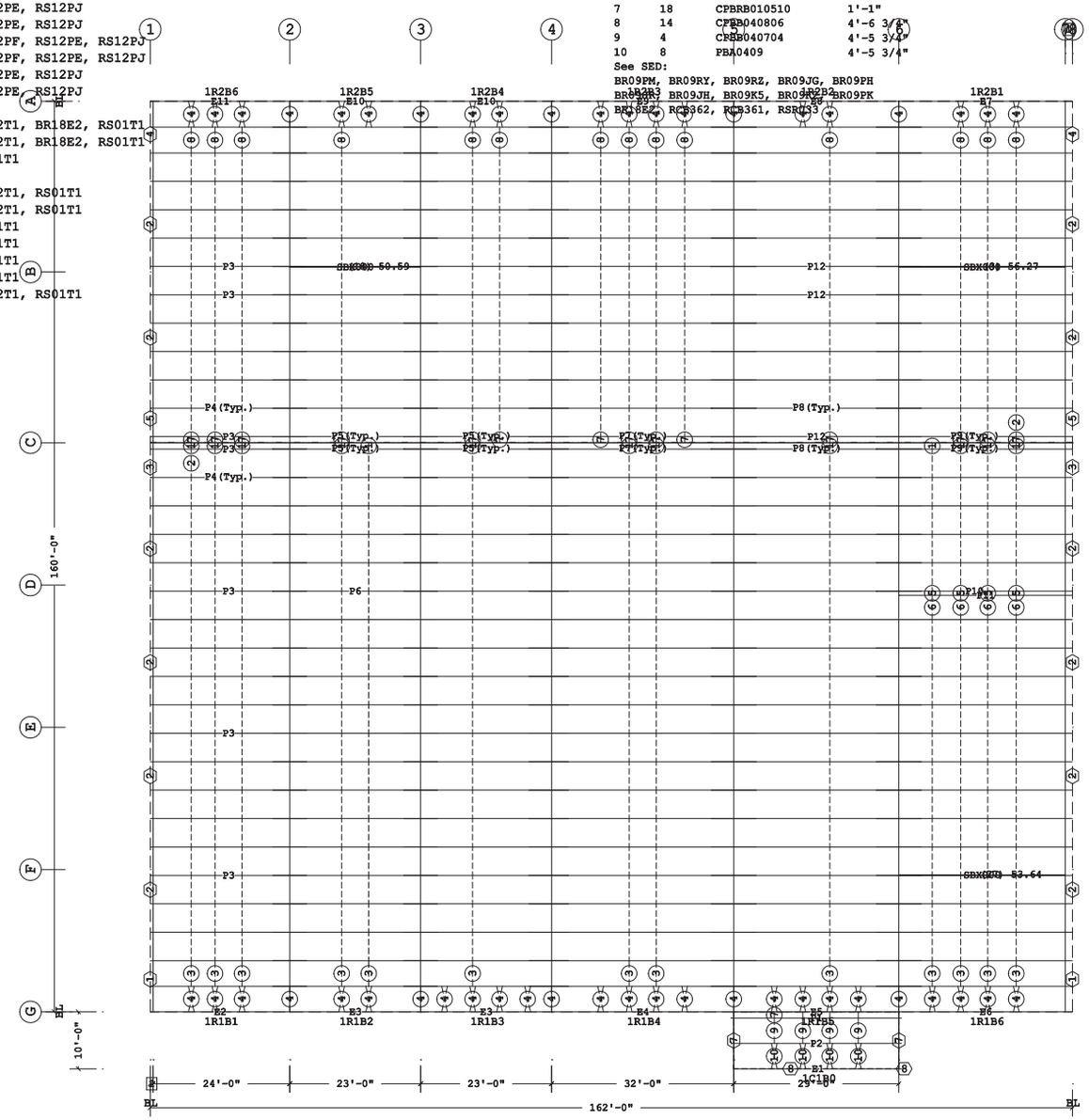
Secondary Bracing Schedule

Id	Qty	Mark No	Spacing
1	13	CPBRA010602	1'-1 3/8"
2	370	CPBB050108(Typ.)	5'-0"
3	13	CPBB040710	4'-6 1/16"
4	84	PBA0410	4'-6 1/16"
5	4	CPBB001002	8 5/8"
6	4	CPBB040414	4'-3 3/8"
7	18	CPBRB010510	1'-1"
8	14	CPBB040806	4'-6 3/4"
9	4	CPBB040704	4'-5 3/4"
10	8	PBA0409	4'-5 3/4"

See SED:
BR09PM, BR09RY, BR09RZ, BR09JG, BR09PH
BR09PJ, BR09JH, BR09K5, BR09PK, BR09PL
BR09E2, RC8362, RC8361, RSR033

Part Mark Key

1	001SGA11055
2	001SGA19114
3	001SGA08067
4	001SGA11070
5	001SGA08064
6	560805
7	001IBRC09117
8	6ECP23



ROOF SECONDARY PLAN

2 6"
1 1'-3"
Dimension Key

Shape Name = Building - Hippo Harvest Budget, Shape = Building - Hippo Harvest Budget

BID SET #1 - ADDENDUM 2

1. Unless noted, use 1/2 x 1 1/2 A325T Bolt (49080) and Nut (47120) w/o washers. Snug tighten bolts for all secondary connections.
2. Flange Braces are an integral part of the stability of the structural system and must be properly installed prior to erection of wall and roof sheets.
3. Removal or alteration of any component is prohibited.

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Rev:	Date:	By:	Description:
C			Butler Manufacturing 1540 Genesse St. Kansas City, MO 64102

Drawing Scale: NTS

ROOF SECONDARY PLAN

Builder: STEEL SOLUTIONS, INC.
Customer:
Location: Hollister, California
Project: Hippo Harvest
Builder's PO#: 20-04-990-21

Butler Manufacturing
VPC Version: 25.1.1

Job #:
Date: 6/27/2025
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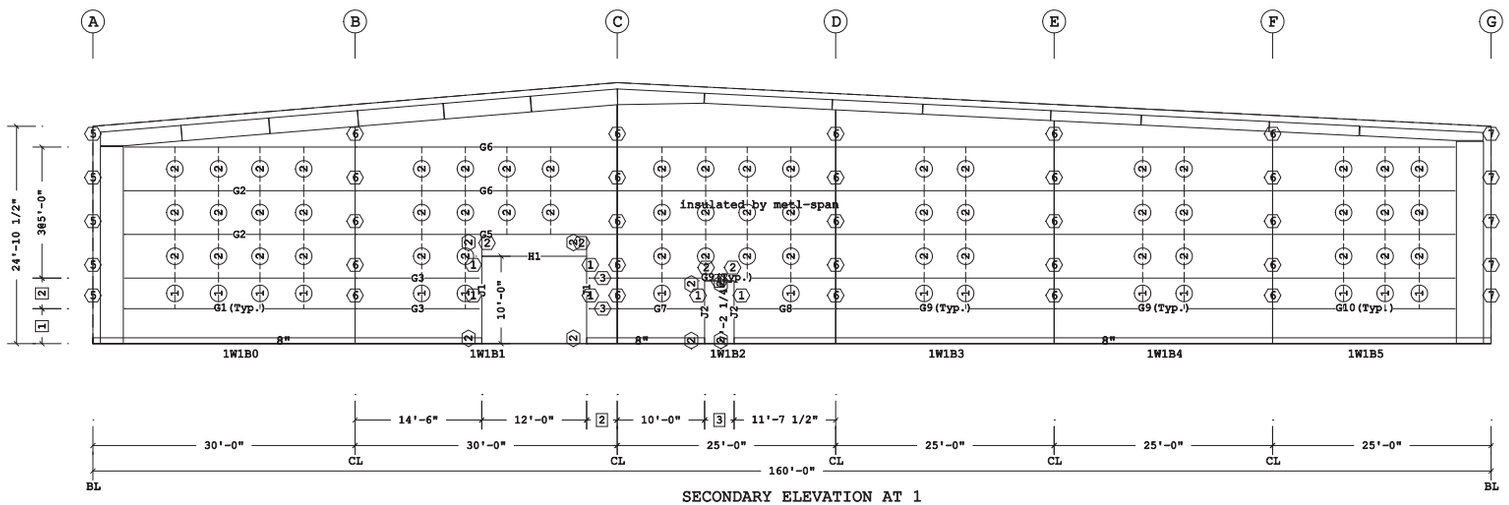
Secondary Part Schedule

Mark	Part	Thick.	Depth	Lap	Detail
G1	00110ZS2603417F0	0.0600	10"		WSR001, WSR063, WSR065, BRR052, WSR004
G10	00310ZS2009417F0	0.0600	10"		WSR001, WSR004, WSR065, BRR052, WSR063
G2	00210ZS2603416F0	0.0680	10"		WSR001, WSR063, WSR065, BRR052, WSR004
G3	10Z1401417EG10	0.0600	10"		WS20F2, WSR065, BRR052, WSR063
G4	10Z0301417EG10	0.0600	10"		WSR065, BRR052, WSR063, WS20F2
G5	10Z2909412EEF0	0.0980	10"		WSR065, BRR052, WSR063
G6	10Z2909416EEF0	0.0680	10"		WSR065, BRR052, WSR063
G7	10Z0907417EG10	0.0600	10"		WS20F2, WSR065, BRR052, WSR063
G8	10Z1103017EG10	0.0600	10"		WSR065, BRR052, WSR063, WS20F2
G9	10Z2409417EEF0	0.0600	10"		WSR065, BRR052, WSR063
H1	00110JS1200017	0.0600	10"		WS20F9
H2	00310JS0304417	0.0600	10"		WS20F9
J1	00210JS1202217	0.0600	10"		WS20F9, WS20F2, WS20B2, WS20B8
J2	00410JS0702217	0.0600	10"		WS20F9, WS20F2, WS20B2, WS20B8

Secondary Bracing Schedule

Id	Qty	Mark No	Spacing
1	15	CPBB030708	3'-6"
2	55	CPBB050108	5'-0"
3	21	0544015	0'-0"



SECONDARY ELEVATION AT 1

		7	GFA500
		6	GFA106
		5	GFA406
		4	H2
3	3'-4 1/2"	3	G4
2	3'-6"	2	PG1
1	4'-0"	1	JTG4
☐ Dimension Key		⬡ Part Mark Key	

Shape Name = Building - Hippo Harvest Budget, Wall = 1

BID SET #1 - ADDENDUM 2

1. Unless noted, use 1/2 x 1 1/2 A325T Bolt (49080) and Nut (47120) w/o washers. Snug tighten bolts for all secondary connections.
2. Flange Braces are an integral part of the stability of the structural system and must be properly installed prior to erection of wall and roof sheets.
3. Removal or alteration of any component is prohibited.

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Butler Manufacturing
1540 Genesse St. Kansas City, MO 64102

SECONDARY ELEVATION AT 1

Rev:	Date:	By:	Description:

Drawing Scale: NTS

Builder: STEEL SOLUTIONS, INC.
Customer:
Location: Hollister, California
Project: Hippo Harvest
Builder's PO#: 20-04-990-21

Butler Manufacturing
VPC Version: 25.1.1

Job #:
Date: 6/27/2025
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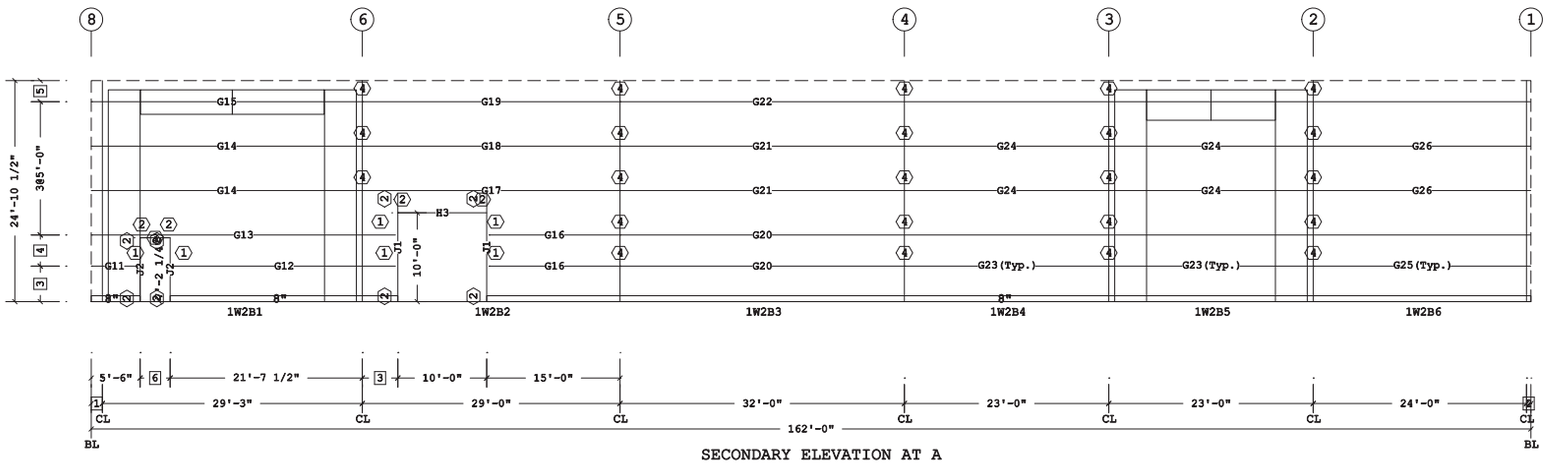
Secondary Part Schedule

Mark	Part	Thick.	Depth	Lap	Detail
G11	10Z0502417GV02	0.0600	10"		WSR001, WS20F2
G12	00410ZS250101702	0.0600	10"		WSR001, WS01G2, WCB608, WSR065, WS01Q2, WS20F2
G13	00510ZS340241702	0.0600	10"		WSR001, WS20F2
G14	10Z3005413DV02	0.0880	10"		WSR001, WS01G2, WCB608, WSR065, WS01Q2
G15	10Z3005416DV02	0.0680	10"		WSR001, WS01G2, WCB608, WSR065, WS01Q2
G16	10Z1408417DG02	0.0600	10"		WS01G2, WCB608, WSR065, WS01Q2, WS20F2
G17	10Z2811414DD02	0.0790	10"		WS01G2, WCB608, WSR065, WS01Q2
G18	10Z2811413DD02	0.0880	10"		WS01G2, WCB608, WSR065, WS01Q2
G19	10Z2811416DD02	0.0680	10"		WS01G2, WCB608, WSR065, WS01Q2
G20	10Z3111413DD02	0.0880	10"		WS01G2, WCB608, WSR065, WS01Q2
G21	10Z3111412DD02	0.0980	10"		WS01G2, WCB608, WSR065, WS01Q2
G22	10Z3111414DD02	0.0790	10"		WS01G2, WCB608, WSR065, WS01Q2
G23	10Z2211417DD02	0.0600	10"		WS01G2, WCB608, WSR065, WS01Q2
G24	10Z2211416DD02	0.0680	10"		WS01G2, WCB608, WSR065, WS01Q2
G25	10Z2405417BD02	0.0600	10"		WSR001, WS01G2, WCB608, WSR065, WS01Q2
G26	10Z2405416BD02	0.0680	10"		WSR001, WS01G2, WCB608, WSR065, WS01Q2
H2	00310JS0304417	0.0600	10"		WS20F9
H3	00510JS1000017	0.0600	10"		WS20F9
J1	00210JS1202217	0.0600	10"		WS20F9, WS20F2, WS20B2, WS20B8
J2	00410JS0702217	0.0600	10"		WS20F9, WS20F2, WS20B2, WS20B8



SECONDARY ELEVATION AT A

6	3'-4 1/2"		
5	2'-4 1/2"		
4	3'-6"	4	GFAP1054
3	4'-0"	3	H2
2	6"	2	PG1
1	1'-3"	1	JTG4

☐ Dimension Key ⬡ Part Mark Key

Shape Name = Building - Hippo Harvest Budget, Wall = 2

BID SET #1 - ADDENDUM 2

1. Unless noted, use 1/2 x 1 1/2 A325T Bolt (49080) and Nut (47120) w/o washers. Snug tighten bolts for all secondary connections.
2. Flange Braces are an integral part of the stability of the structural system and must be properly installed prior to erection of wall and roof sheets.
3. Removal or alteration of any component is prohibited.

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1540 Genesee St. Kansas City, MO 64102

Rev:	Date:	By:	Description:

Drawing Scale: NTS

SECONDARY ELEVATION AT A

Builder: STEEL SOLUTIONS, INC.
Customer:
Location: Hollister, California
Project: Hippo Harvest
Builder's PO#: 20-04-990-21

BUTLER
Butler Manufacturing
VPC Version: 25.1.1

Job #:
Date: 6/27/2025
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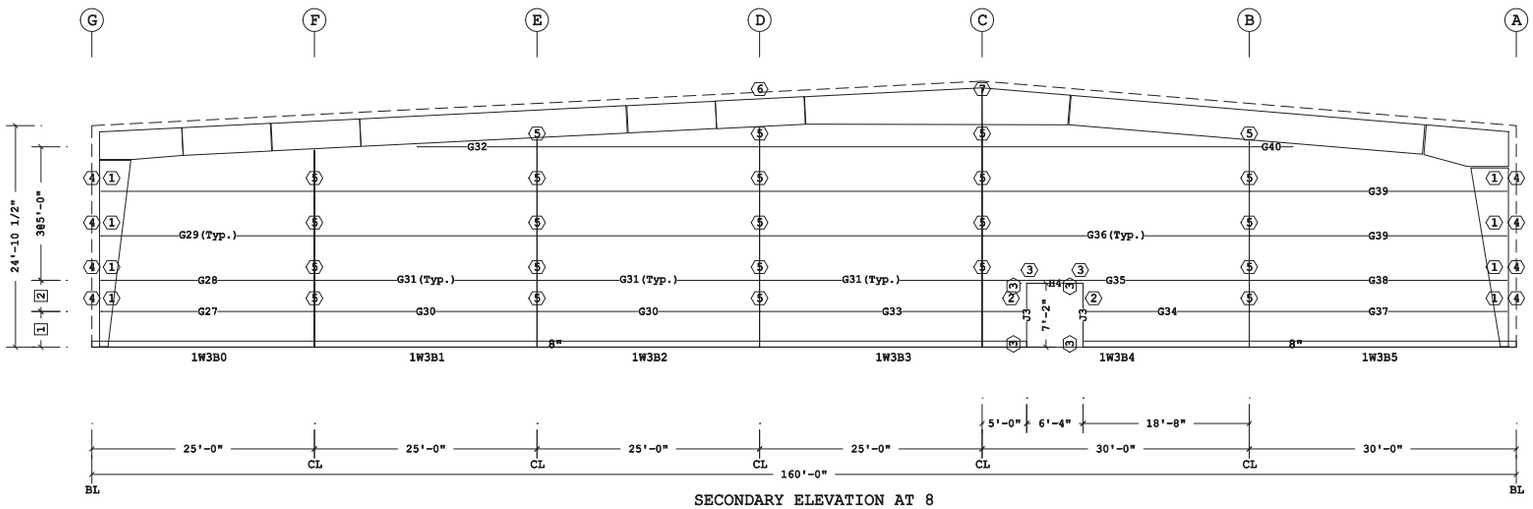
Secondary Part Schedule

Mark	Part	Thick.	Depth	Lap	Detail
G27	10Z2311417DU02	0.0600	10"		WSR001, WS01G2, WCB608, WSR065, WS01Q2
G28	10Z2311416DU02	0.0680	10"		WSR001, WS01G2, WCB608, WSR065, WS01Q2
G29	10Z2311415DU02	0.0730	10"		WSR001, WS01G2, WCB608, WSR065, WS01Q2
G30	10Z2411417DD02	0.0600	10"		WS01G2, WCB608, WSR065, WS01Q2
G31	10Z2411416DD02	0.0680	10"		WS01G2, WCB608, WSR065, WS01Q2
G32	00610ZS130471602	0.0680	10"		WS01G2, WCB608, WS01Q2, WSR065, WS04C2
G33	00710ZS290841702	0.0600	10"		WS20F2, WS01G2, WCB608, WSR065, WS01Q2
G34	00810ZS180441702	0.0600	10"		WS01G2, WCB608, WSR065, WS01Q2, WS20F2
G35	10Z2911416DD02	0.0680	10"		WS01G2, WCB608, WSR065, WS01Q2
G36	10Z2911413DD02	0.0880	10"		WS01G2, WCB608, WSR065, WS01Q2
G37	10Z2811415DU02	0.0730	10"		WSR001, WS01G2, WCB608, WSR065, WS01Q2
G38	10Z2811414DU02	0.0790	10"		WSR001, WS01G2, WCB608, WSR065, WS01Q2
G39	10Z2811413DU02	0.0880	10"		WSR001, WS01G2, WCB608, WSR065, WS01Q2
G40	00910ZS041101302	0.0880	10"		WSR001, WS04C2, WS01G2, WCB608, WSR065, WS01Q2
H4	00610JS0604017	0.0600	10"		WS20F9
J3	00710JS0702217	0.0600	10"		WS20F9, WS20F2, WS20B2, WS20B8



SECONDARY ELEVATION AT 8

		7	GFAP0114
		6	GFAP0084
		5	GFAP1054
		4	GFAP1084
		3	PG1
2	3'-6"	2	JTG4
1	4'-0"	1	VCC08403104

☐ Dimension Key ⬡ Part Mark Key

Shape Name = Building - Hippo Harvest Budget, Wall = 3

BID SET #1 - ADDENDUM 2

1. Unless noted, use 1/2 x 1 1/2 A325T Bolt (49080) and Nut (47120) w/o washers. Snug tighten bolts for all secondary connections.
2. Flange Braces are an integral part of the stability of the structural system and must be properly installed prior to erection of wall and roof sheets.
3. Removal or alteration of any component is prohibited.

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C

Butler Manufacturing
1540 Genesee St. Kansas City, MO 64102

Rev:	Date:	By:	Description:

Drawing Scale: NTS

SECONDARY ELEVATION AT 8

Builder: STEEL SOLUTIONS, INC.
Customer:
Location: Hollister, California
Project: Hippo Harvest
Builder's PO#: 20-04-990-21

Butler Manufacturing
VPC Version: 25.1.1

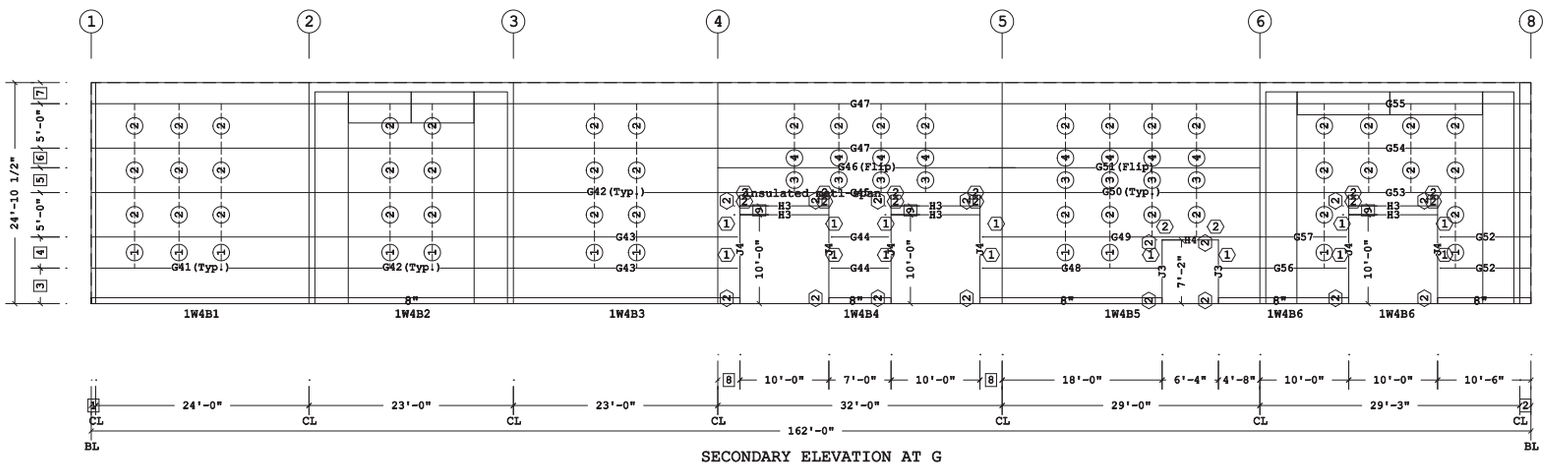
Job #:
Date: 6/27/2025
Drawn/Check: /
Page:

Secondary Part Schedule

Mark	Part	Thick.	Depth	Lap	Detail
G41	10Z2405417BDB0	0.0600	10"		WSR001, WSR065, WS01G2
G42	10Z2211417DDB0	0.0600	10"		WSR065, WS01G2
G43	01010ZS250241700	0.0600	10"		WS20F2, WSR065, WS01G2
G44	01110ZS060541700	0.0600	10"		WS20F2
G45	10Z3111412DDB0	0.0980	10"		WSR065, WS01G2
G46(Flip)	10Z3305417D200	0.0600	10"	1'-4 1/2"	WS01V3, WSR065, WS01G2
G47	10Z3111417DDB0	0.0600	10"		WSR065, WS01G2
G48	01210ZS191141700	0.0600	10"		WSR065, WS01G2, WS20F2
G49	01310ZS310241700	0.0600	10"		WSR065, WS01G2, WS20F2
G50	10Z2811417DDB0	0.0600	10"		WSR065, WS01G2
G51(Flip)	10Z3005417D200	0.0600	10"	1'-4 1/2"	WSR065, WS01G2, WS01V3
G52	10Z1002417GV00	0.0600	10"		WSR001, WS20F2
G53	10Z3005413DVB0	0.0880	10"		WSR001, WSR065, WS01G2
G54	10Z3005417DVB0	0.0600	10"		WSR001, WSR065, WS01G2
G55	01410ZS3005417B0	0.0600	10"		WSR001, WSR065, WS01G2
G56	01510ZS140141700	0.0600	10"		WSR065, WS01G2, WS20F2
G57	10Z0908417DG00	0.0600	10"		WS20F2, WSR065, WS01G2
H3	00510JS1000017	0.0600	10"		WS20F9
H4	00610JS0604017	0.0600	10"		WS20F9
J3	00710JS0702217	0.0600	10"		WS20F9, WS20F2, WS20B2, WS20B8
J4	00810JS1202217	0.0600	10"		WS20F9, WS20F2, WS20B2, WS20B8

Secondary Bracing Schedule

Id	Qty	Mark No	Spacing
1	11	CPBB030708	3'-6"
2	43	CPBB050108	5'-0"
3	8	CPBC030100	2'-9 1/2"
4	8	CPBA020202	2'-2 1/2"
5	33	0544015	0'-0"



SECONDARY ELEVATION AT G

9	1'-0"		
8	2'-6"		
7	2'-4 1/2"		
6	2'-2 1/2"		
5	2'-9 1/2"		
4	3'-6"		
3	4'-0"		
2	1'-3"	2	PG1
1	6"	1	JTG4

Dimension Key Part Mark Key

Shape Name = Building - Hippo Harvest Budget, Wall = 4

BID SET #1 - ADDENDUM 2

1. Unless noted, use 1/2 x 1 1/2 A325T Bolt (49080) and Nut (47120) w/o washers. Snug tighten bolts for all secondary connections.
2. Flange Braces are an integral part of the stability of the structural system and must be properly installed prior to erection of wall and roof sheets.
3. Removal or alteration of any component is prohibited.

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C

Butler Manufacturing
1540 Genessee St. Kansas City, MO 64102

Rev:	Date:	By:	Description:

Drawing Scale: NTS

SECONDARY ELEVATION AT G

Builder: STEEL SOLUTIONS, INC.
Customer:
Location: Hollister, California
Project: Hippo Harvest
Builder's PO#: 20-04-990-21

Butler Manufacturing
VPC Version: 25.1.1

Job #:
Date: 6/27/2025
Drawn/Check: /
Page:

VPC Filename: designed
6/27/2025 17:32:49
a division of BlueScope Buildings North America, Inc.

Covering Schedule

Id	Qty	Start Length	Qty	Stagger Length	Type	Gage	OP	Fin.	Color	Direction
#8	41	45'-0 1/8"	40	40'-0 1/8"	MR24	24	13	K	SW	Right to Left
#9	41	35'-6"	40	35'-6"	MR24	24	10	K	SW	Right to Left
#10	41	20'-9 7/8"	40	25'-9 7/8"	MR24	24	11	K	SW	Right to Left
#11	41	40'-1 3/8"	40	35'-1 3/8"	MR24	24	13	K	SW	Right to Left
#12	41	20'-9 1/2"	40	25'-9 1/2"	MR24	24	11	K	SW	Right to Left
#6	15	9'-11 5/8"			MR24	24	15	K	SW	Right to Left

Oper. Code:13=SQ, NT
Oper. Code:10=SQ, NT
Oper. Code:11=SQ, SQ
Oper. Code:15=SQ, SQ
Finish:K=Butler-Cote
Color:SW=Cool Solar White

Insulation Schedule (Install in same direction as Covering)

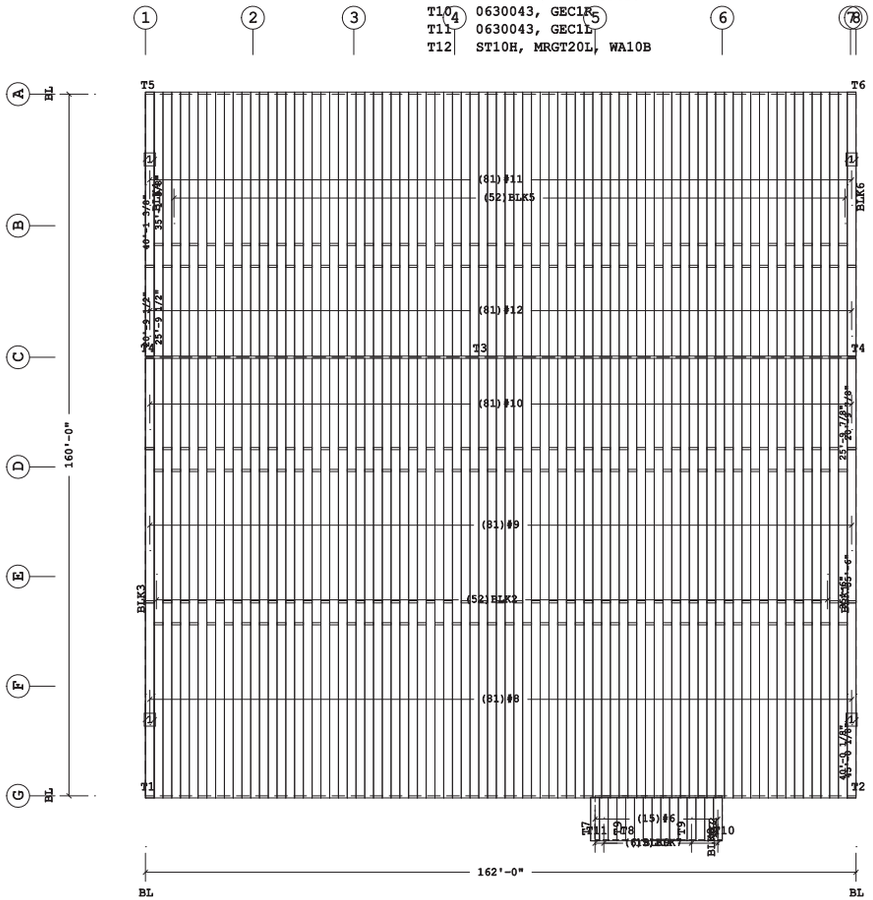
Id	Qty	Type	Start Run	Last Run	Thick.	Facin
BLK1	1	IC	103'-6"		6.00	WM
BLK2	52	IC	103'-6"	103'-6"	6.00	WM
BLK3	1	IC	103'-6"		6.00	WM
BLK4	1	IC	61'-6"		6.00	WM
BLK5	52	IC	61'-6"	61'-6"	6.00	WM
BLK6	1	IC	61'-6"		6.00	WM
BLK7	15	IU	10'-6"	10'-6"	9.00	UF
BLK8	1	IC	10'-6"		6.00	WM
BLK9	6	IC	10'-6"	10'-6"	6.00	WM

Starter Width= 5'-0", Interm. Width= 3'-0", End Width= 4'-0"
Location =Outside Secondary Structural
Direction =Across Secondary Structural
Type:IC=Fiberglass Blanket
Type:IU=TBS Fiberglass Top Blanket
Facing:WM=WMP-50
Facing:UF=Unfaced

Trim Schedule

Id	Parts
T1	0630043, GEC1L
T2	0630043, GEC1R
T3	(16.2)IRT10C, (8.1)RC20
T4	0560173, MRRET, RBT2, TC1, (0.1)VWA10
T5	0630043, GEC1R
T6	0630043, GEC1L
T7	ST10H, MRGT20R, WA10B
T8	(2.9)ST10H, (1.5)GTR25
T9	(2)4CE75, (1.5)CP410
T10	0630043, GEC1R
T11	0630043, GEC1L
T12	ST10H, MRGT20L, WA10B

Color	Details
Cool Birch White	
Cool Birch White	
Cool Birch White	ENB004, NV667
Cool Birch White	
Cool Birch White	
Cool Birch White	
Cool Birch White	RCB205, RCB362, RSB023, RSB025
Cool Birch White	EN60F1, RCB294, RCB361, RCB396
Cool Birch White	KV853
Cool Birch White	
Cool Birch White	
Match Wall Color	RCB205, RCB362, RSB023, RSB025



ROOF COVERING PLAN

Planograph Schedule

Id	Details
T1	P-080572, P-081236, P-103223, P-104542, P-104714
T2	P-080572, P-081236, P-103223, P-104542, P-104714
T3	P-080573, P-080575, P-080578, P-080949, P-ZRSLO
T4	P-081167, P-081243, P-GAI
T5	P-080572, P-081236, P-103223, P-104542, P-104714
T6	P-080572, P-081236, P-103223, P-104542, P-104714
T7	P-081167, P-104544, P-107511, P-GAI
T8	P-103223, P-103315, P-104714
T9	P-105224, P-105225, P-105228
T10	P-080572, P-081236, P-103223, P-104542, P-104714
T11	P-080572, P-081236, P-103223, P-104542, P-104714
T12	P-081167, P-104544, P-107511, P-GAI

BID SET #1 - ADDENDUM 2

Shape Name = Building - Hippo Harvest Budget, Shape = Building - Hippo Harvest Budget

1. Pre-drilling 1/8 diameter holes for structural fasteners may be required for heavy gage nested zee's and/or fasteners to structural beams
2. Steel panels are an integral part of the structural system. removal or alteration without prior authorization is prohibited.
3. Due to manufacturing limitations short panels may require field cutting, see the covering schedule for cut lengths.
4. See job details for covering and trim fastener specification.

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Butler Manufacturing
1540 Genessee St. Kansas City, MO 64102

ROOF COVERING PLAN

Rev:	Date:	By:	Description:

Drawing Scale: NTS

Builder: STEEL SOLUTIONS, INC.
Customer:
Location: Hollister, California
Project: Hippo Harvest
Builder's PO#: 20-04-990-21

Butler Manufacturing
VPC Version: 25.1.1

Job #:
Date: 6/27/2025
Drawn/Check: /
Page:

VPC Filename: designed
6/27/2025 17:32:41
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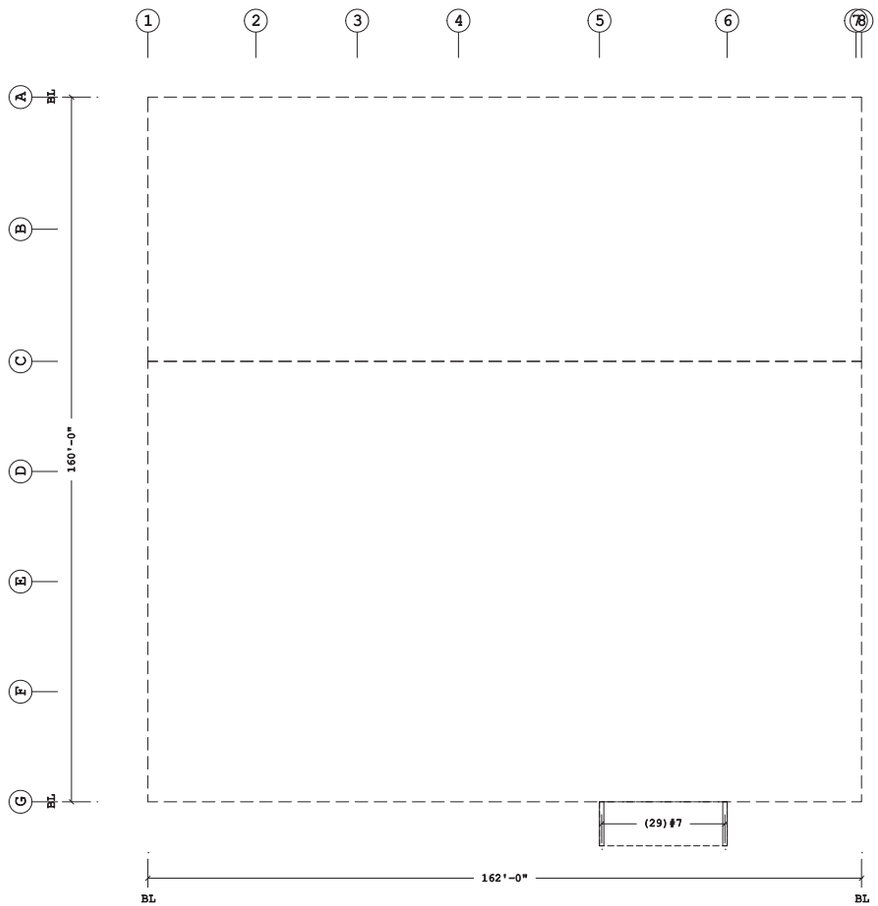
Liner/Soffit Schedule

Id	Qty	Type	Length	Gage	OP	Finish	Color	Direction	Cut
#7	29	MODZ	10'-0 3/8"	24	1	K	SW	Left to Right	

Oper. Code:1=SQ, SQ
Finish:K=Butler-Cote
Color:SW=Cool Solar White



Shape Name = Building - Hippo Harvest Budget, Shape = Building - Hippo Harvest Budget

BID SET #1 - ADDENDUM 2

1. Pre-drilling 1/8 diameter holes for structural fasteners may be required for heavy gage nested zee's and/or fasteners to structural beams
2. Steel panels are an integral part of the structural system. removal or alteration without prior authorization is prohibited.
3. Due to manufacturing limitations short panels may require field cutting, see the covering schedule for cut lengths.
4. See job details for covering and trim fastener specification.

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Butler Manufacturing
1540 Genesee St. Kansas City, MO 64102

Rev:	Date:	By:	Description:

Drawing Scale: NTS

ROOF LINER PLAN

Builder: STEEL SOLUTIONS, INC.
Customer:
Location: Hollister, California
Project: Hippo Harvest
Builder's PO#: 20-04-990-21

Butler Manufacturing
VPC Version: 25.1.1

Job #:
Date: 6/27/2025
Drawn/Check: /
Page:

VPC Filename: designed
6/27/2025 17:32:44
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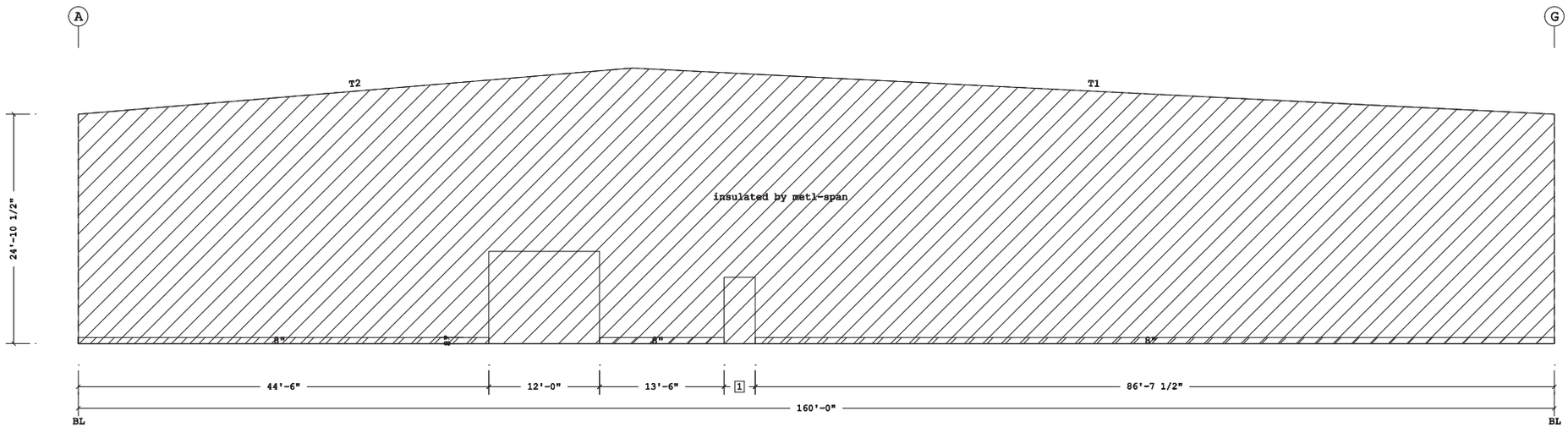
Trim Schedule

Id	Parts	Color	Details
T1	(5.5)MRGT20R, (9.8)VWA10	Cool Birch White	KV391, KV392, WCB055
T2	(3.5)MRGT20L, (5.9)VWA10	Cool Birch White	KV391, KV392, WCB055



COVERING ELEVATION AT 1

Planograph Schedule

Id	Details
T1	P-081167, P-081259, P-GAI
T2	P-081167, P-081259, P-GAI

1 3'-4 1/2"

☐ Dimension Key

Shape Name = Building - Hippo Harvest Budget, Wall = 1

BID SET #1 - ADDENDUM 2

1. Pre-drilling 1/8 diameter holes for structural fasteners may be required for heavy gage nested zee's and/or fasteners to structural beams
2. Steel panels are an integral part of the structural system. removal or alteration without prior authorization is prohibited.
3. Due to manufacturing limitations short panels may require field cutting, see the covering schedule for cut lengths.
4. See job details for covering and trim fastener specification.

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Butler Manufacturing
1540 Genesee St. Kansas City, MO 64102

Rev:	Date:	By:	Description:

Drawing Scale: NTS

COVERING ELEVATION AT 1

Builder: STEEL SOLUTIONS, INC.
Customer:
Location: Hollister, California
Project: Hippo Harvest
Builder's PO#: 20-04-990-21

Butler Manufacturing
VPC Version: 25.1.1

Job #:
Date: 6/27/2025
Drawn/Check: /
Page:

Covering Schedule

Id	Qty	Type	Start Length	Gage	OP	Fin.	Color	Direction
#1	52	SHU	24'-4 1/4"	24	3	K	IV	Left to Right
#2	2	SHU	14'-11 3/8"	24	3	K	IV	Left to Right

Oper. Code:3=SQ, SQ
Finish:K=Butler-Cote
Color:IV=Cool Ivory White

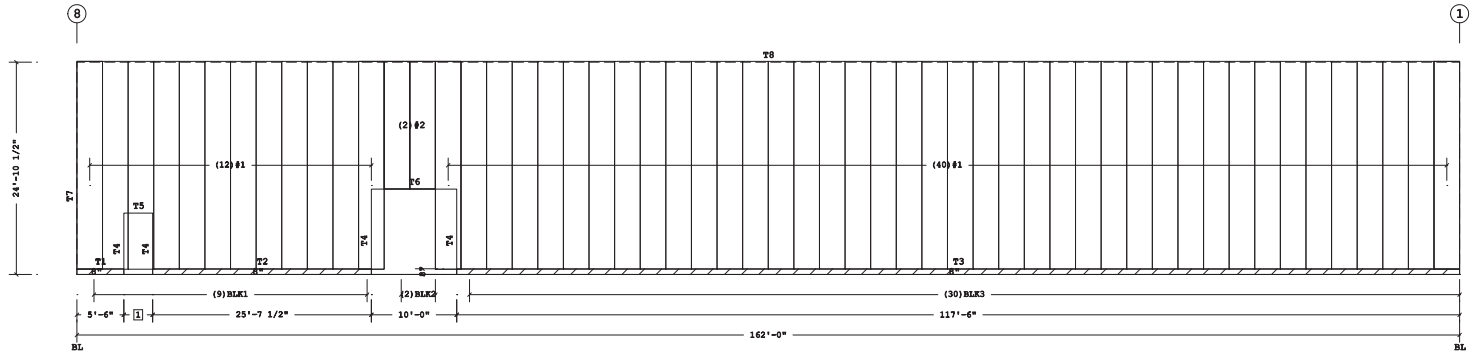
Trim Schedule

Id	Parts	Color	Details
T1	(0.2)BA225, (0.5)BT12A	Cool Birch White	ENB006, GV386, GV442, NV115, NV120, NV128, NV130, NV135, NV143, NV664, WCB082, WCB083, WCB085, WCB086, WSR065
T2	BA225, (2.5)BT12A	Cool Birch White	ENB006, GV386, GV442, NV115, NV120, NV128, NV130, NV135, NV143, NV664, WCB082, WCB083, WCB085, WCB086, WSR065
T3	(4.7)BA225, (10)BT12A	Cool Birch White	ENB006, GV386, GV442, NV115, NV120, NV128, NV130, NV135, NV143, NV664, WCB082, WCB083, WCB085, WCB086, WSR065
T4	DSF12C	Cool Birch White	NV568, NV569, WCB024, WCB025
T5	(0.5)DGS12	Cool Birch White	NV125, NV140, NV566
T6	DGS12	Cool Birch White	NV125, NV140, NV566
T7	(4)0620163, (3)SHOCT12	Cool Birch White	NV118, NV119, NV133, NV134
T8	(14)CLE12C, (6.5)GTR25, (13.5)SHCL12	Cool Birch White	EN60B1, EN60C1, EN60D1, MV252, MV822, NV110, NV116, NV131

Insulation Schedule (Install in same direction as Covering)

Id	Qty	Type	Start Run	Last Run	Thick.	Facing	Increment
BLK1	9	IC	25'-6"	25'-6"	6.00	WM	
BLK2	2	IC	16'-0"	16'-0"	6.00	WM	
BLK3	30	IC	25'-6"	25'-6"	6.00	WM	

Starter Width= 4'-0", Interm. Width= 4'-0", End Width= 4'-0"
Location =Outside Secondary Structural
Direction =Across Secondary Structural
Type:IC=Fiberglass Blanket
Facing:WM=WMP-50
Shape Name = Building - Hippo Harvest Budget, Wall = 2



COVERING ELEVATION AT A

1 3'-4 1/2"
Dimension Key

Planograph Schedule

Id	Details
T1	P-081180, P-081505
T2	P-081180, P-081505
T3	P-081180, P-081505
T4	P-081201, P-081202, P-081203
T5	P-081202
T6	P-081202
T7	P-081180, P-081185
T8	P-103223, P-103315, P-104714

Fastener Schedule

Part	Description
0097362-101	Scrubolt 11/32 x 1 1/2", T-45 Torx Hd w/Washer
0097364-101	(T-1) 1/4-14 x 3/4", T-30 Torx Hd w/Washer

BID SET #1 - ADDENDUM 2

Shape Name = Building - Hippo Harvest Budget, Wall = 2

1. Pre-drilling 1/8 diameter holes for structural fasteners may be required for heavy gage nested zee's and/or fasteners to structural beams
2. Steel panels are an integral part of the structural system. removal or alteration without prior authorization is prohibited.
3. Due to manufacturing limitations short panels may require field cutting, see the covering schedule for cut lengths.
4. See job details for covering and trim fastener specification.

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Rev.	Date:	By:	Description:
C			

Butler Manufacturing
1540 Genessee St. Kansas City, MO 64102

COVERING ELEVATION AT A

Builder: STEEL SOLUTIONS, INC.
Customer:
Location: Hollister, California
Project: Hippo Harvest
Builder's PO#: 20-04-990-21
Drawing Scale: NTS

Butler Manufacturing
VPC Version: 25.1.1

Job #:
Date: 6/27/2025
Drawn/Check: /
Page:

VPC Filename: designed

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Covering Schedule

Id	Qty	Type	Start Length	Gage	OP	Fin.	Color	Increment	Direction
#3	33	SHU	24'-4 1/2"	24	3	K	IV	1 13/16"	Left to Right
#4	1	SHU	29'-2 1/2"	24	3	K	IV		Left to Right
#5	20	SHU	28'-11 1/4"	24	3	K	IV	-3"	Left to Right

Oper. Code:3=SQ, SQ
Finish:K=Butler-Cote
Color:IV=Cool Ivory White

Trim Schedule

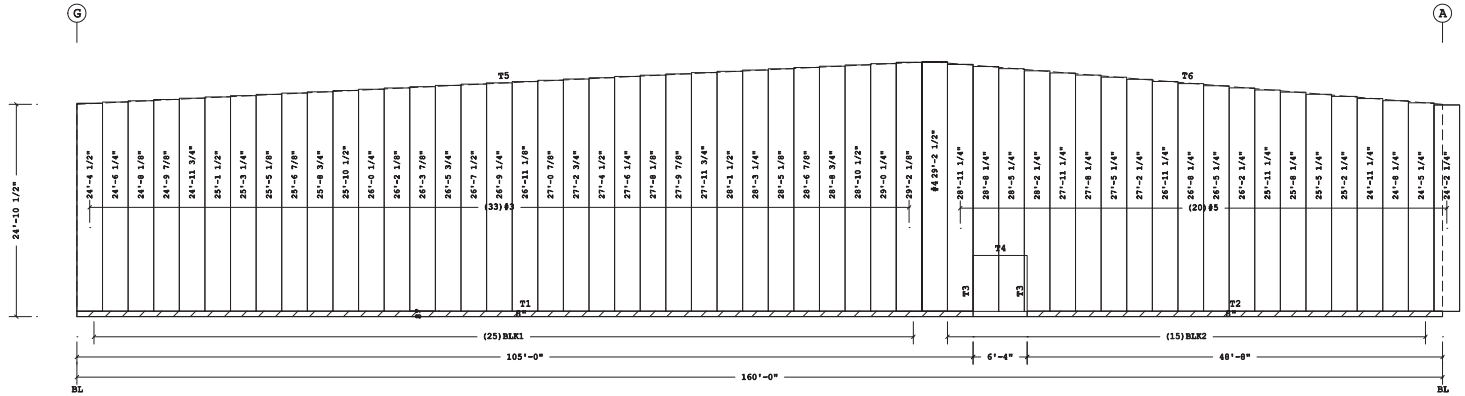
Id	Parts
T1	(4.2)BA225, (9)BT12A
T2	(1.9)BA225, (4.5)BT12A
T3	DSF12C
T4	DGS12
T5	(5.5)MRGT20L, (8.5)SHCL12, (10)WA10A
T6	(3.5)MRGT20R, (5.5)SHCL12, (6)WA10A

Color	Details
Cool Birch White	EMB006, GV386, GV442, NV115, NV120, NV128, NV130, NV135, NV143, NV664, WCB082, WCB083, WCB085, WCB086, WSR065
Cool Birch White	EMB006, GV386, GV442, NV115, NV120, NV128, NV130, NV135, NV143, NV664, WCB082, WCB083, WCB085, WCB086, WSR065
Cool Birch White	NV568, NV569, WCB024, WCB025
Cool Birch White	NV125, NV140, NV566
Cool Birch White	KV403, KV404, MV822, PV167
Cool Birch White	KV403, KV404, MV822, PV167

Insulation Schedule (Install in same direction as Covering)

Id	Qty	Type	Start Run	Last Run	Thick.	Facing	Increment
BLK1	25	IC	25'-6"	30'-6"	6.00	WM	2 3/8"
BLK2	15	IC	30'-6"	26'-0"	6.00	WM	4"

Starter Width= 4'-0", Interm. Width= 4'-0", End Width= 4'-0"
Location =Outside Secondary Structural
Direction =Across Secondary Structural
Type:IC=Fiberglass Blanket
Facing:WM=WMP-50
Shape Name = Building - Hippo Harvest Budget, Wall = 3



COVERING ELEVATION AT 8

Planograph Schedule

Id	Details
T1	P-081180, P-081505
T2	P-081180, P-081505
T3	P-081201, P-081202, P-081203
T4	P-081202
T5	P-081167, P-081183, P-GAI
T6	P-081167, P-081183, P-GAI

Fastener Schedule

Part	Description
0097362-101	Scrubolt 11/32 x 1 1/2", T-45 Torx Hd w/Washer
0097364-101	(T-1) 1/4-14 x 3/4", T-30 Torx Hd w/Washer

Shape Name = Building - Hippo Harvest Budget, Wall = 3

BID SET #1 - ADDENDUM 2

1. Pre-drilling 1/8 diameter holes for structural fasteners may be required for heavy gage nested zee's and/or fasteners to structural beams
2. Steel panels are an integral part of the structural system. removal or alteration without prior authorization is prohibited.
3. Due to manufacturing limitations short panels may require field cutting, see the covering schedule for cut lengths.
4. See job details for covering and trim fastener specification.

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C

Butler Manufacturing
1540 Genesee St. Kansas City, MO 64102

Rev.	Date:	By:	Description:

Drawing Scale: NTS

COVERING ELEVATION AT 8

Builder: STEEL SOLUTIONS, INC.
Customer:
Location: Hollister, California
Project: Hippo Harvest
Builder's PO#: 20-04-990-21

Butler Manufacturing
VPC Version: 25.1.1

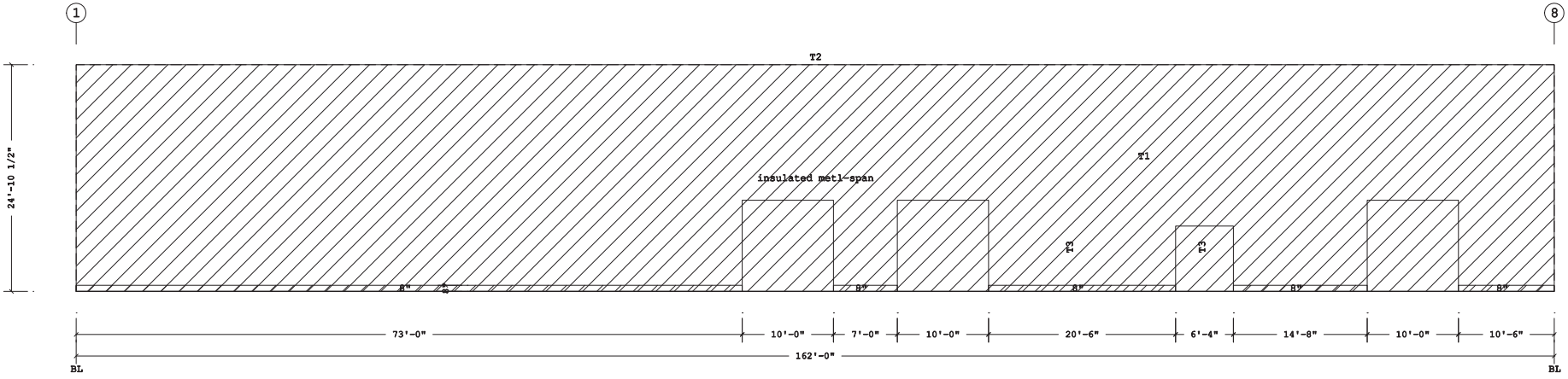
Job #:
Date: 6/27/2025
Drawn/Check: /
Page:

VPC Filename: designed

a division of Nucor Buildings North America, Inc.

Trim Schedule

Id	Parts	Color	Details
T1	(2.9)STCF10, (2.9)MRSLF10, (1.9)PTFS15	Cool Birch White	ENB004, NV667
T2	(14)CLE12C, (6.5)GTR25	Cool Birch White	EN60B1, RCB953
T3	(2)4CE75, (1.5)CP410	Cool Birch White	KV853



COVERING ELEVATION AT G

Planograph Schedule

Id	Details
T1	P-081525, P-081537, P-081564, P-081572, P-090005, P-105634
T2	P-103223, P-103315, P-104714
T3	P-105224, P-105225, P-105228

Shape Name = Building - Hippo Harvest Budget, Wall = 4

BID SET #1 - ADDENDUM 2

1. Pre-drilling 1/8 diameter holes for structural fasteners may be required for heavy gage nested zee's and/or fasteners to structural beams
2. Steel panels are an integral part of the structural system. removal or alteration without prior authorization is prohibited.
3. Due to manufacturing limitations short panels may require field cutting, see the covering schedule for cut lengths.
4. See job details for covering and trim fastener specification.

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C

Butler Manufacturing
1540 Genessee St. Kansas City, MO 64102

Rev:	Date:	By:	Description:

Drawing Scale: NTS

COVERING ELEVATION AT G

Builder: STEEL SOLUTIONS, INC.
Customer:
Location: Hollister, California
Project: Hippo Harvest
Builder's PO#: 20-04-990-21

Butler Manufacturing
VPC Version: 25.1.1

Job #:
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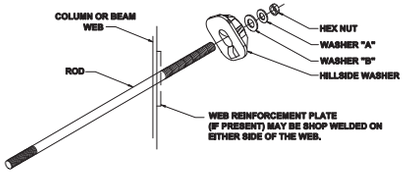
Drawn/Check: /
Page:

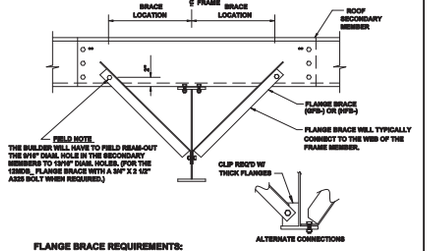


DESCRIPTION/PART NO				
ROD DIAM	NUT	HARD STEEL ROUND WASHER A	HARD STEEL WASHER B	HILLSIDE WASHER
3/8"	95321	3/8" FLAT WASHER (89048)	1/2" BEVEL SQUARE WASHER (40040)	543334
1/2"	95230	1/2" FLAT WASHER (89072)	3/4" FLAT ROUND WASHER (89046)	
5/8"	95233	5/8" FLAT WASHER (89049)		
3/4"	95235	3/4" FLAT WASHER (89048)	1" FLAT ROUND WASHER (89048)	543335
7/8"	95237	7/8" FLAT WASHER (89047)		
1"	95238	1" FLAT WASHER (89048)	1 1/8" FLAT ROUND WASHER (89049)	543336
1 1/8"	95239	1 1/8" FLAT WASHER (89049)		

REV. DATE: 09/02/17 REV. NO. 04

ROD BRACE
WEB SLOT ASSEMBLY

BR01G2



FLANGE BRACE REQUIREMENTS:

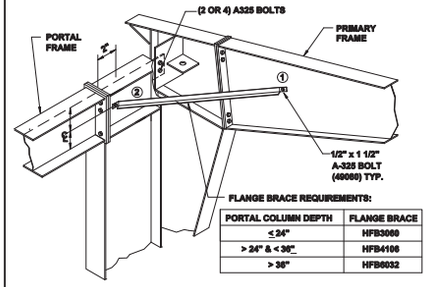
RULE#1- ALL FLANGE BRACES ON CROSS SECTIONS MUST BE INSTALLED.
RULE#2- SINGLE FLANGE BRACES ARE REQUIRED WHEN PART MARK ON CROSS SECTION IS NOT ACCOMPANIED BY (2).
RULE#3- FLANGE BRACES ARE REQUIRED BOTH SIDES OF THE FRAME WEB WHEN PART MARK IS ACCOMPANIED BY (2).
RULE#4- WHENEVER POSSIBLE, PLACE SINGLE BRACES TOWARD THE CENTER OF THE BUILDING.
RULE#5- WHENEVER POSSIBLE, PLACE ALL SINGLE BRACES ON THE SAME SIDE OF THE FRAME WEB.

** 10" & 11 1/2" PURLINS REQUIRE 3 BOLTS AT EACH END OF PURLIN LAP.

REV. DATE: 09/02/16 REV. NO. 02

TYPICAL FLANGE BRACE CONNECTIONS
CONT. PURLIN LAP SHOWN, CONT. GIRT & SIMPLE PURLIN

BR06AE



PORTAL COLUMN DEPTH	FLANGE BRACE
≤ 24"	HFB3060
> 24" & < 36"	HFB4100
> 36"	HFB6032

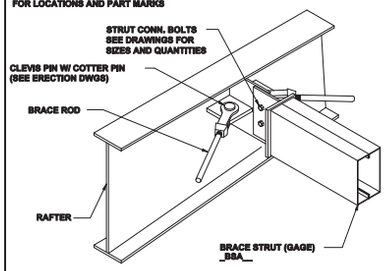
NOTES:
① FIELD DRILL 9/16" HOLES IN PRIMARY AND PORTAL FRAME WEBS FOR FLANGE BRACE CONNECTIONS.
② DRILL 9/16" HOLE IN PORTAL FRAME COLUMN WEB APPROX. 2" FROM BOLTING PLATE @ BEAM C. L

REV. DATE: 03/17/16 REV. NO. 03

PORTAL FRAME DETAIL
CONNECTION TO FRAME

BR12J1

SEE ERECTION DRAWINGS FOR LOCATIONS AND PART MARKS



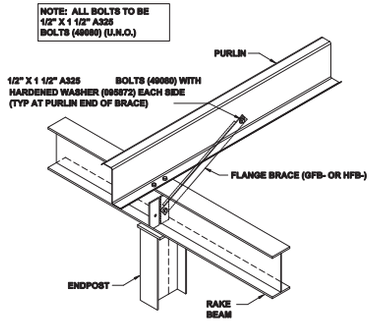
WHERE SLOTTED HOLES ARE PRESENT, BOLTS ARE SLIP CRITICAL AND MUST BE FULLY PRE TENSIONED. FAYING SURFACES MUST BE PAINT FREE. IF PAINT IS FOUND ON FAYING SURFACES IN SLOTTED CONNECTIONS REMOVE WITH LIGHT GRINDING. STANDARD HARDENED WASHERS ARE REQUIRED OVER ALL SLOTS. SEE ERECTION DRAWINGS FOR MARK NUMBERS AND QUANTITIES.

REV. DATE: 06/02/11 REV. NO. 01

STRUT BRACING
GAGE STRUT IN ROOF

BR15L1

NOTE: ALL BOLTS TO BE 1/2" X 1 1/2" A325 BOLTS (40060) (U.N.O.)

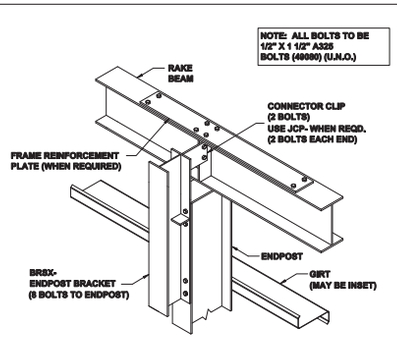


REV. DATE: 09/04/11 REV. NO. 01

ENDPOST TOP BRACING
ENDPOST WITHIN 6" (152mm) OF PURLIN

BR25A3

NOTE: ALL BOLTS TO BE 1/2" X 1 1/2" A325 BOLTS (40060) (U.N.O.)

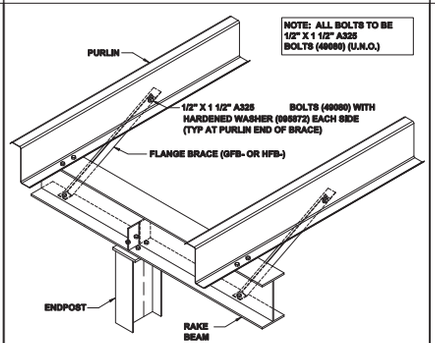


REV. DATE: 07/01/09 REV. NO. 03

TOP OF ENDPOST
ENDPOST BRACKET TO RAKE BEAM

BR25BD

NOTE: ALL BOLTS TO BE 1/2" X 1 1/2" A325 BOLTS (40060) (U.N.O.)

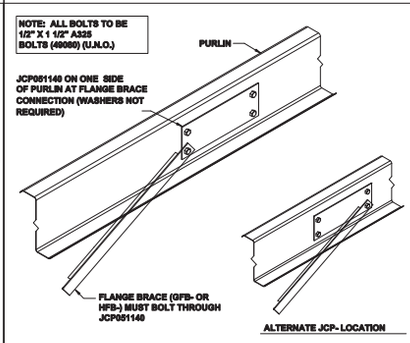


REV. DATE: 11/10/15 REV. NO. 03

ENDPOST TOP BETWEEN PURLINS
NO CAP CHANNEL - BRACED TO PURLINS ONLY

BR25CA

NOTE: ALL BOLTS TO BE 1/2" X 1 1/2" A325 BOLTS (40060) (U.N.O.)



REFER TO ROOF/WALL FLANGE BRACING DETAILS WHEN LINER OR VAPOR RETARDER CLIPS ARE USED

REV. DATE: 11/14/03 REV. NO. 01

ENDPOST TOP BRACING
PURLIN REINFORCEMENT

BR25DH

F = FEET I = INCHES E = EIGHTHS

G = GAGE O = OPERATION C = FIN/COLOR

PANEL/COVERING
W13117261KTD
* F F I I E G G O C C C
LENGTH CODE

INSULATION
IB13010360030WV
* * F F F I I I I I E C C
LENGTH WIDTH THK CODE

SECONDARY (STANDARD)
08Z1911417-----
* * * F F I I E G G * * * * *
DEPTH LENGTH SHAPE GAGE ADJUST.CODES

SECONDARY (SPECIAL)
00108Z1911417---
* * * * * * F F I I E G G * * *
COUNTER DEPRESSTH SHAPE GAGE ADJUST.CODES

ROD BRACING
03RS2510
I E * * F F I I
DIA LENGTH

CX*** = COLUMN (PLATE)
CGX*** = COLUMN (GAGE)
WCX*** = COLUMN (HOTROLL)

RBX*** = RAFTER (PLATE)
BGX*** = RAFTER (GAGE)
WRX*** = RAFTER (HOTROLL)
TRX*** = TRUSS RAFTER

ICX*** = INTERIOR COLUMN
PCX*** = PIPE COLUMN
TCX*** = TUBE COLUMN

EPX*** = ENDPOST (PLATE)
EGX*** = ENDPOST (GAGE)

CBX*** = CANOPY (PLATE)
CBX*** = PIGGYBACK CANOPY

DCC*** = 8 1/2" GAGE POST
DCE*** = 10" GAGE POST

RS = THREADS BOTH ENDS
RT = THREADS ONE END - CLEVIS ONE END
RU = CLEVIS BOTH ENDS
RP = THREAD BOTH ENDS - NO HILLSIDES

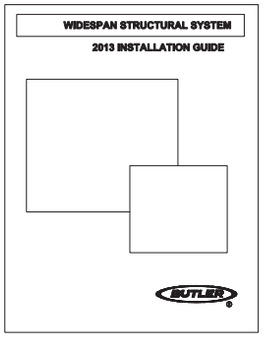
REV. DATE: 06/02/13 REV. NO. 01

MARK NUMBER KEY
COMMON GENERATED MARK NUMBERS

EN50B1

BASIC ERECTION GUIDE REQUIRED FOR THIS PROJECT:

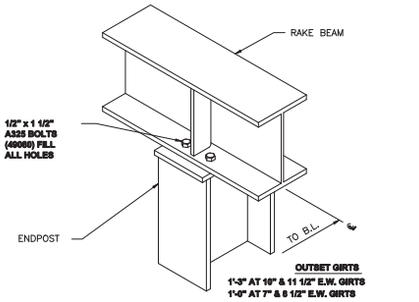
REFER TO: WIDESPAN STRUCTURAL SYSTEM 2013 INSTALLATION GUIDE



REV. DATE: 01/05/14 REV. NO. 09

BASIC ERECTION GUIDE - STRUCTURAL

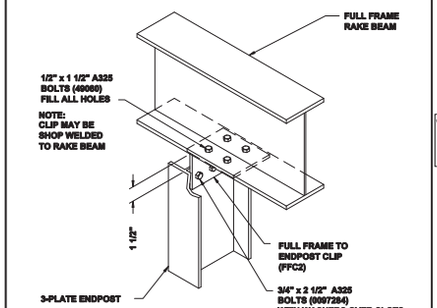
ENB002



REV. DATE: 07/01/09 REV. NO. 09

RAKE BEAM CONNECTION
TO ENDPOST

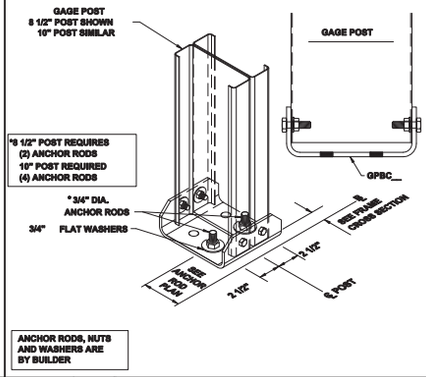
PF10C2



REV. DATE: 04/04/03 REV. NO. 02

3-PLATE ENDPOST TO FULL FRAME
FULL FRAME ENDWALL

PF10CA

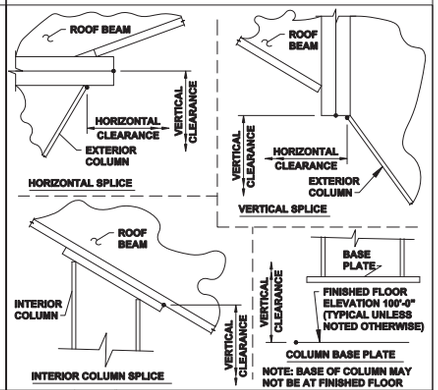


ANCHOR RODS, NUTS AND WASHERS ARE BY BUILDER

REV. DATE: 11/17/17 REV. NO. 02

GAGE POST BASE CONNECTION
FACTORY ATTACHED BASE CLIP

PF13D2



REV. DATE: 09/15/10 REV. NO. 09

CLEAR HEIGHT DIMENSION WORK POINTS
AS SHOWN ON FRAME CROSS SECTION DRAWINGS

PFR007

BID SET #1 - ADDENDUM 2

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C — Butler Manufacturing
1540 Genessee St. Kansas City, MO 64102

Rev:	Date:	By:	Description:

Drawing Scale: NTS

PRIMARY BRACING SED'S

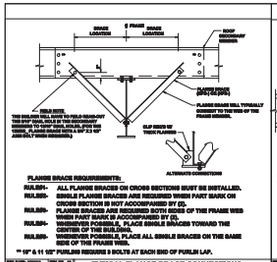
Builder: STEEL SOLUTIONS, INC.
Customer:
Location: Hollister, California
Project: Hippo Harvest
Builder's PO#: 20-04-990-21

BUTLER
Butler Manufacturing
VPC Version: 25.1.1

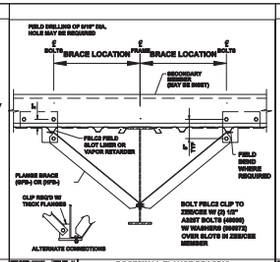
Job #:
Date: 8/27/2025
Drawn/Check: /
Page:

VPC Filename: designed

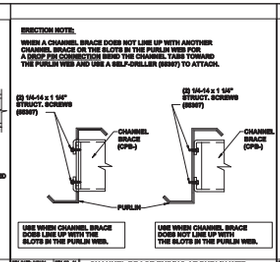
8/27/2025 SEDSheet 17:32:02



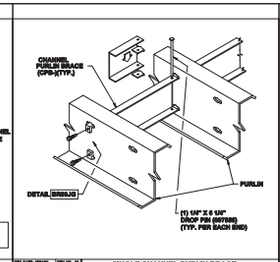
SR08AE | TYPICAL FLANGE BRACE CONNECTIONS | CONT. PURLIN LAP SHOWN, CONT. GIRT & SIMPLE PURLIN



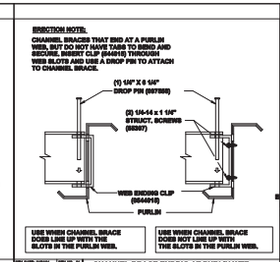
SR08JJ | ROOFWALL FLANGE BRACING | PURLIN/GIRT WITH LINER OR INSUL. VAPOR RETARDER



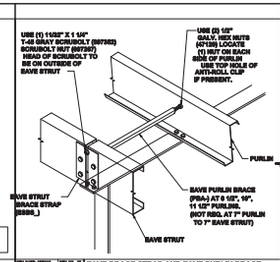
SR09JG | CHANNEL BRACE ENDING AT PURLIN WEB | SELF-DRILLER WITH BSHT TABS



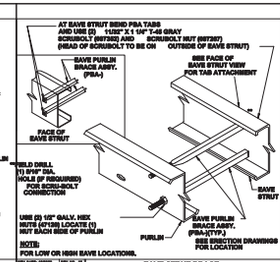
SR09JH | SINGLE CHANNEL PURLIN BRACE | ENDING AT PURLIN WEB LOCATION



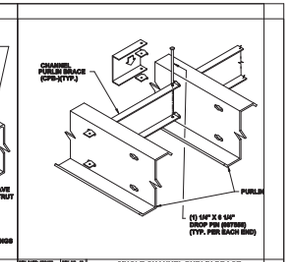
SR09JR | CHANNEL BRACE ENDING AT PURLIN WEB | WEB ENDING CLIP WITH DROP PIN



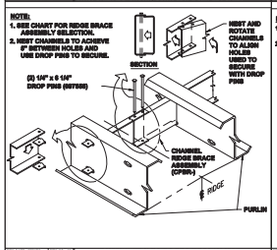
SR08SK3 | EAVE BRACE STRAP AND EAVE PURLIN BRACE | LOCATED AT EAVE - CENTERLINE OF FRAME



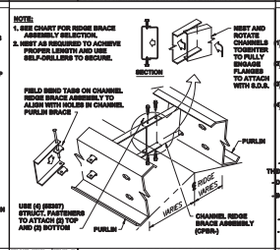
SR08SK | EAVE STRUT BRACE



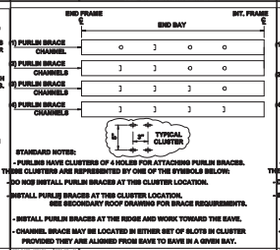
SR08PH | SINGLE CHANNEL PURLIN BRACE | INTERMEDIATE LOCATION



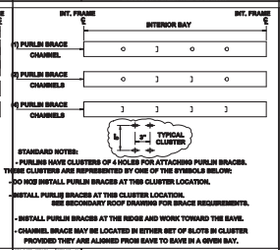
SR09PK | CHANNEL RIDGE BRACE ASSEMBLY | SINGLE BRACE AT SYMMETRICAL RIDGE



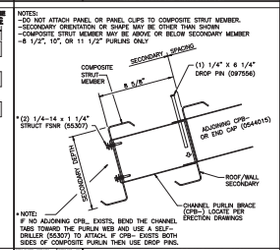
SR09PM | CHANNEL RIDGE BRACE ASSEMBLY | RIDGE BRACE ONLY AT UNSYMMETRICAL RIDGE



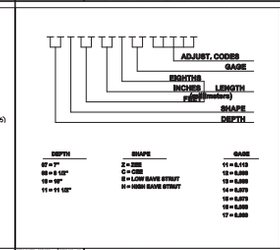
SR09RY | PURLIN BRACE CLUSTER LOCATION | END BAY CHANNEL LOCATION



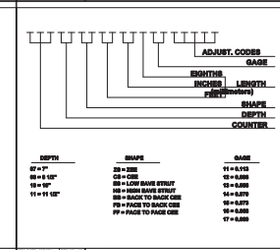
SR09RZ | PURLIN BRACE CLUSTER LOCATION | INTERIOR BAY CHANNEL LOCATION



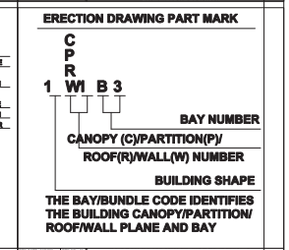
SR10E2 | COMPOSITE STRUT ASSEMBLY ATTACH. | ROOF SECONDARY



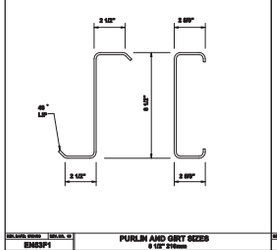
EN01B1 | SECONDARY PART MARK NUMBER | COMMON GENERATED MARK NUMBERS



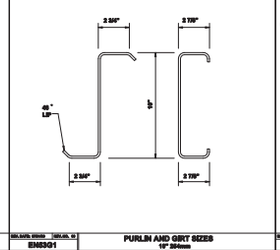
EN01B2 | SPECIAL SECONDARY PART MARK KEY | COMMON GENERATED MARK NUMBERS



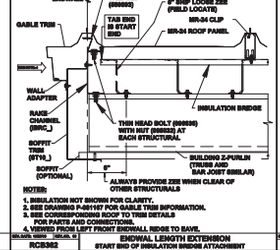
EN01B3 | SECONDARY BUNDLE LOCATION KEY | ALL SECONDARY DEPTHS



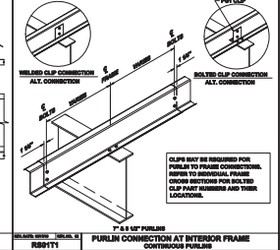
EM03P1 | PURLIN AND GIRT SIZES | 6 1/2" 216mm



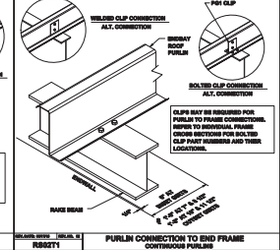
EM03G1 | PURLIN AND GIRT SIZES | 10" 254mm



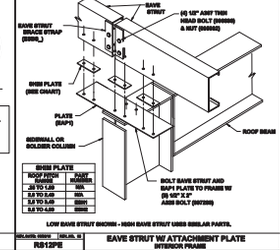
RCB362 | ENDWALL LENGTH EXTENSION | START END OF INSULATION BRIDGE ATTACHMENT



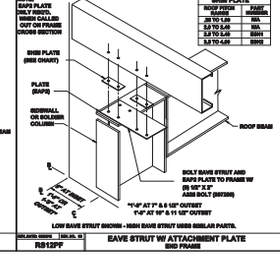
RB01T1 | PURLIN CONNECTION AT INTERIOR FRAME | CONTINUOUS PURLINS



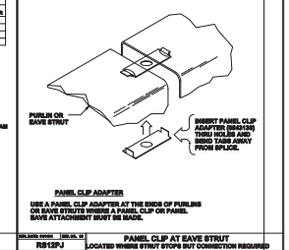
RB02T1 | PURLIN CONNECTION TO END FRAME | CONTINUOUS PURLINS



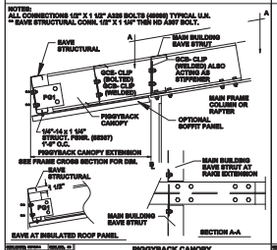
RB12PE | EAVE STRUT W/ ATTACHMENT PLATE | INTERIOR FRAME



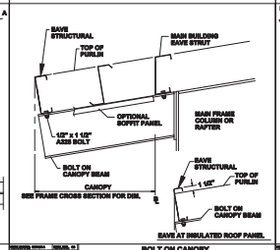
RB12PF | EAVE STRUT W/ ATTACHMENT PLATE | END FRAME



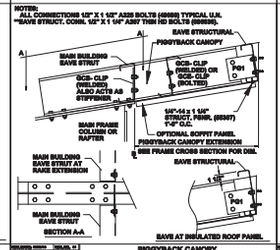
RB12PJ | PANEL CLIP AT EAVE STRUT | LOCATED WHERE STRUT STOPS BUT CONNECTION REQUIRED



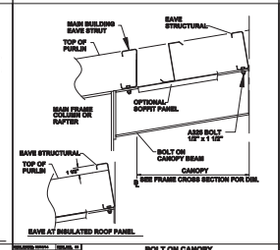
RSB001 | PIGGYBACK CANOPY | ALL PURLIN DEPTHS - LOW EAVE



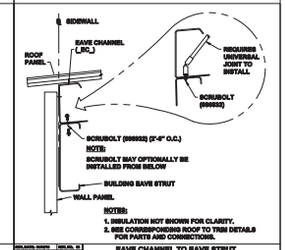
RSB002 | BOLT ON CANOPY | ALL PURLIN DEPTHS - LOW EAVE



RSB003 | PIGGYBACK CANOPY | ALL PURLIN DEPTHS - HIGH EAVE



RSB004 | BOLT ON CANOPY | ALL PURLIN DEPTHS - HIGH EAVE



RSR033 | EAVE CHANNEL TO SAVE STRUT | LOW SAVE ATTACHMENT FOR INSULATION BRIDGE

BID SET #1 - ADDENDUM 2

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ROOF SECONDARY SED'S

Rev:	Date:	By:	Description:

Drawing Scale: NTS

Builder: STEEL SOLUTIONS, INC.
Customer:
Location: Hollister, California
Project: Hippo Harvest
Builder's PO#: 20-04-990-21

Butler Manufacturing
VPC Version: 25.1.1

Job #:
Date: 6/27/2025
Drawn/Check: /
Page:

VPC Filename: designed
6/27/2025 SED Sheet
17:33:52
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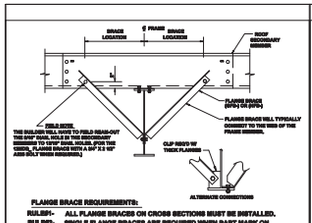
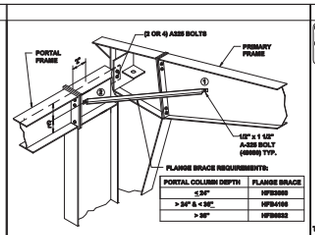


FLANGE BRACE REQUIREMENTS:

RULE01- ALL FLANGE BRACES ON CROSS SECTIONS MUST BE INSTALLED.
RULE02- SINGLE FLANGE BRACES ARE REQUIRED WHEN PART MARK ON CROSS SECTION IS NOT ACCOMPANIED BY (2).
RULE03- FLANGE BRACES ARE REQUIRED BOTH SIDES OF THE FRAME WHEN PART MARK IS ACCOMPANIED BY (2).
RULE04- WHENEVER POSSIBLE, PLACE SINGLE BRACES TOWARD THE CENTER OF THE BUILDING.
RULE05- WHENEVER POSSIBLE, PLACE ALL SINGLE BRACES ON THE SAME SIDE OF THE FRAME WEB.

** 10" & 11 1/2" PURLINS REQUIRE 3 BOLTS AT EACH END OF PURLIN LAP.

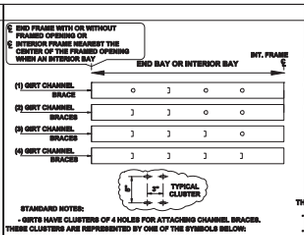
BRS8AE | TYPICAL FLANGE BRACE CONNECTIONS
CONT. PURLIN LAP SHOWN, CONT. GIRT & SIMPLE PURLIN



PORTAL COLUMN DEPTH	FLANGE BRACE
≤ 24"	HPB2020
> 24" & < 36"	HPB4100
> 36"	HPB6032

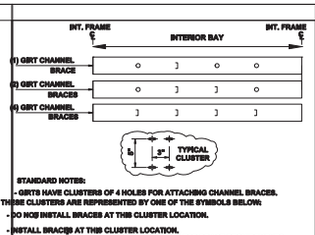
NOTES:
① FIELD DRILL 9/16" HOLES IN PRIMARY AND PORTAL FRAME WEBS FOR FLANGE BRACE CONNECTIONS.
② DRILL 9/16" HOLE IN PORTAL FRAME COLUMN WEB APPROX. 2" FROM BOLTING PLATE @ BRAM C. L

BR12J1 | PORTAL FRAME DETAIL
CONNECTION TO FRAME



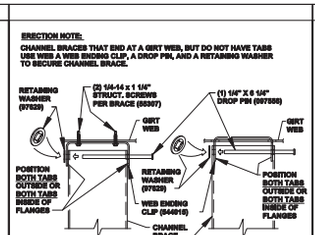
STANDARD NOTES:
- GIRTS HAVE CLUSTERS OF 4 HOLES FOR ATTACHING CHANNEL BRACES. THESE CLUSTERS ARE REPRESENTED BY ONE OF THE SYMBOLS BELOW:
- DO NOT INSTALL BRACES AT THIS CLUSTER LOCATION.
- INSTALL BRACES AT THIS CLUSTER LOCATION. SEE SECONDARY WALL DRAWINGS FOR BRACE REQUIREMENTS.
- INSTALL BRACES WORKING FROM THE LOWEST GIRT TOWARD THE EAVE.
- CHANNEL BRACE MAY BE LOCATED IN EITHER SET OF SLOTS IN CLUSTER PROVIDED THEY ARE ALIGNED FROM TOP TO BOTTOM IN A GIVEN BAY.

BRR002 | CHANNEL BRACE CLUSTER LOCATION
INTERIOR BAY WITH FRAMED OPENING OR END BAY

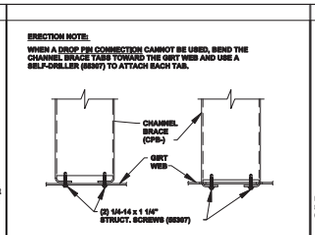


STANDARD NOTES:
- GIRTS HAVE CLUSTERS OF 4 HOLES FOR ATTACHING CHANNEL BRACES. THESE CLUSTERS ARE REPRESENTED BY ONE OF THE SYMBOLS BELOW:
- DO NOT INSTALL BRACES AT THIS CLUSTER LOCATION.
- INSTALL BRACES AT THIS CLUSTER LOCATION. SEE SECONDARY WALL DRAWINGS FOR BRACE REQUIREMENTS.
- INSTALL BRACES WORKING FROM THE LOWEST GIRT TOWARD THE EAVE.
- CHANNEL BRACE MAY BE LOCATED IN EITHER SET OF SLOTS IN CLUSTER PROVIDED THEY ARE ALIGNED FROM TOP TO BOTTOM IN A GIVEN BAY.

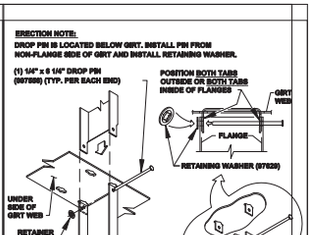
BRR003 | CHANNEL BRACE CLUSTER LOCATION
INTERIOR BAY GIRTS



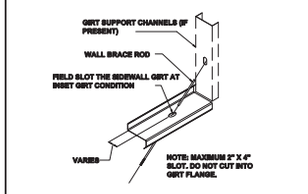
BRR004 | CHANNEL BRACE ENDING AT GIRT WEB
WEB ENDING CLIP ATTACHMENT



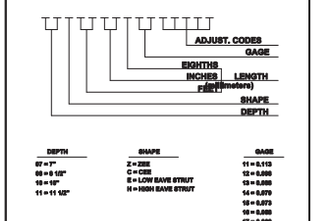
BRR005 | CHANNEL BRACE ENDING AT GIRT WEB
SELF-DRILLER WITH BENT TABS



BRR006 | CHANNEL BRACE SPLICE AT GIRT
INTERMEDIATE LOCATION

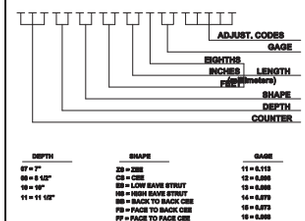


BRR952 | INSET GIRTS WITH BRACE RODS
FIELD WORK BRACE SLOT



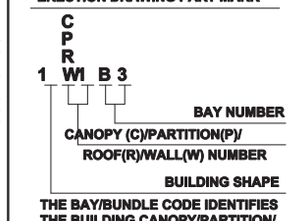
DEPTH	SHAPE	GAGE
07 = 7"	Z = ZEE	11 = 0.113
09 = 9 1/2"	C = CEE	12 = 0.098
10 = 10"	E = LOW BAVE STRUT	13 = 0.083
11 = 11 1/2"	H = HIGH BAVE STRUT	14 = 0.070
		16 = 0.073
		16 = 0.059
		17 = 0.059

EN51B1 | SECONDARY PART MARK NUMBER
COMMON GENERATED MARK NUMBERS

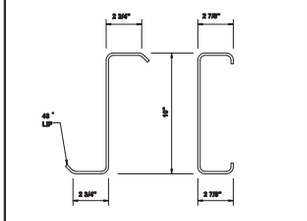


DEPTH	SHAPE	GAGE
07 = 7"	Z9 = ZEE	11 = 0.113
09 = 9 1/2"	C9 = CEE	12 = 0.098
10 = 10"	E9 = LOW BAVE STRUT	13 = 0.083
11 = 11 1/2"	H9 = HIGH BAVE STRUT	14 = 0.070
	B9 = BACK TO BACK CEE	16 = 0.073
	F9 = FACE TO BACK CEE	16 = 0.059
	FF = FACE TO FACE CEE	17 = 0.059

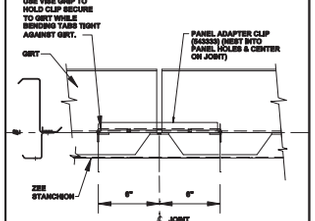
EN51B2 | SPECIAL SECONDARY PART MARK KEY
COMMON GENERATED MARK NUMBERS



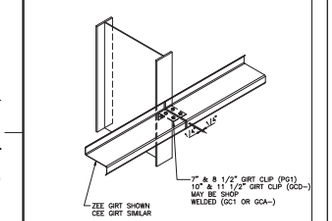
EN51B3 | SECONDARY BUNDLE LOCATION KEY
ALL SECONDARY DEPTHS



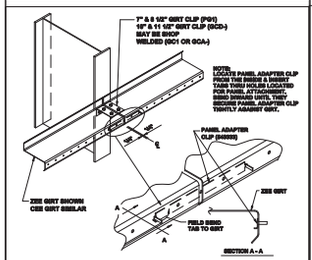
EN53G1 | PURLIN AND GIRT SIZES
10" 254mm



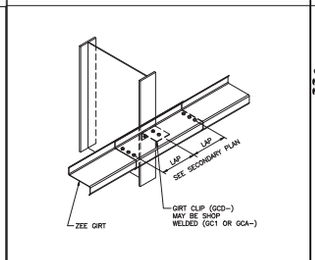
WCB808 | STANCHION ATTACHMENT DETAIL
ON SIMPLE SUITED GIRT



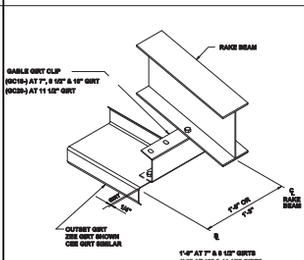
WS01G2 | GIRT CONN. AT COLUMN
OUTSET SIMPLE GIRTS



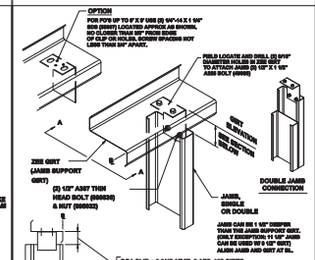
WS01Q2 | GIRT CONN. AT COLUMN
OUTSET SIMPLE GIRTS



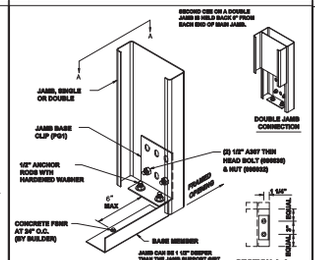
WS01V3 | GIRT CONN. AT COLUMN
OUTSET CONTINUOUS GIRT



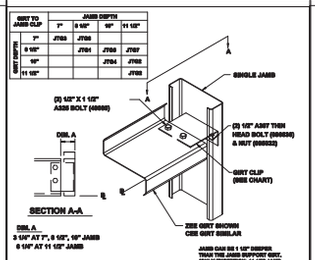
WS04C2 | GABLE GIRT CONN. TO RAKE BEAM
OUTSET GIRTS



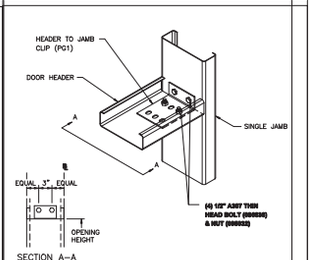
WS20B2 | JAMB TO GIRT
SINGLE OR DOUBLE JAMB, ANY ZEE GIRT



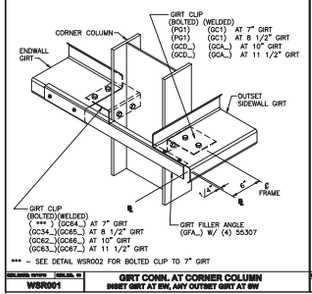
WS20D8 | JAMB BASE ATTACHMENT
SINGLE OR DOUBLE JAMB



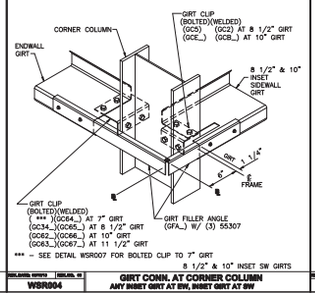
WS20F2 | GIRT TO JAMB
SINGLE JAMB



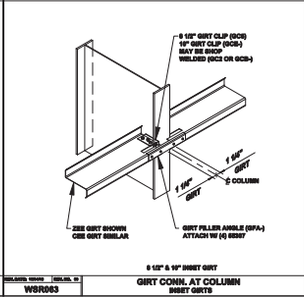
WS20F9 | HEADER TO JAMB
ANY HEADER, ANY SINGLE JAMB



WSR0001 | GIRT CONN. AT CORNER COLUMN
INSET GIRT AT EW, ANY OUTSET GIRT AT SW

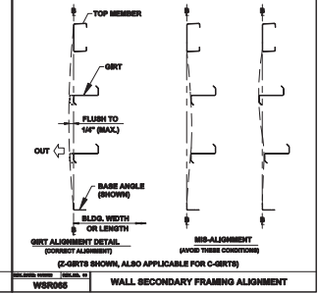


WSR0004 | GIRT CONN. AT CORNER COLUMN
ANY INSET GIRT AT EW, INSET GIRT AT SW



8 1/2" & 10" INSET GIRT

WSR003 | GIRT CONN. AT COLUMN
INSET GIRTS



(Z-GIRTS SHOWN, ALSO APPLICABLE FOR C-GIRTS)

WSR065 | WALL SECONDARY FRAMING ALIGNMENT

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C | Butler Manufacturing
1540 Genesses St. Kansas City, MO 64102

Rev:	Date:	By:	Description:

Drawing Scale: NTS

WALL SECONDARY SED'S

Builder: STEEL SOLUTIONS, INC.
Customer:
Location: Hollister, California
Project: Hippo Harvest
Builder's PO#: 20-04-990-21

Butler Manufacturing
VPC Version: 25.1.1

Job #:
Date: 6/27/2025
Drawn/Check: /
Page:

VPC Filename: designed
6/27/2025 SEDSheet 17:52:22
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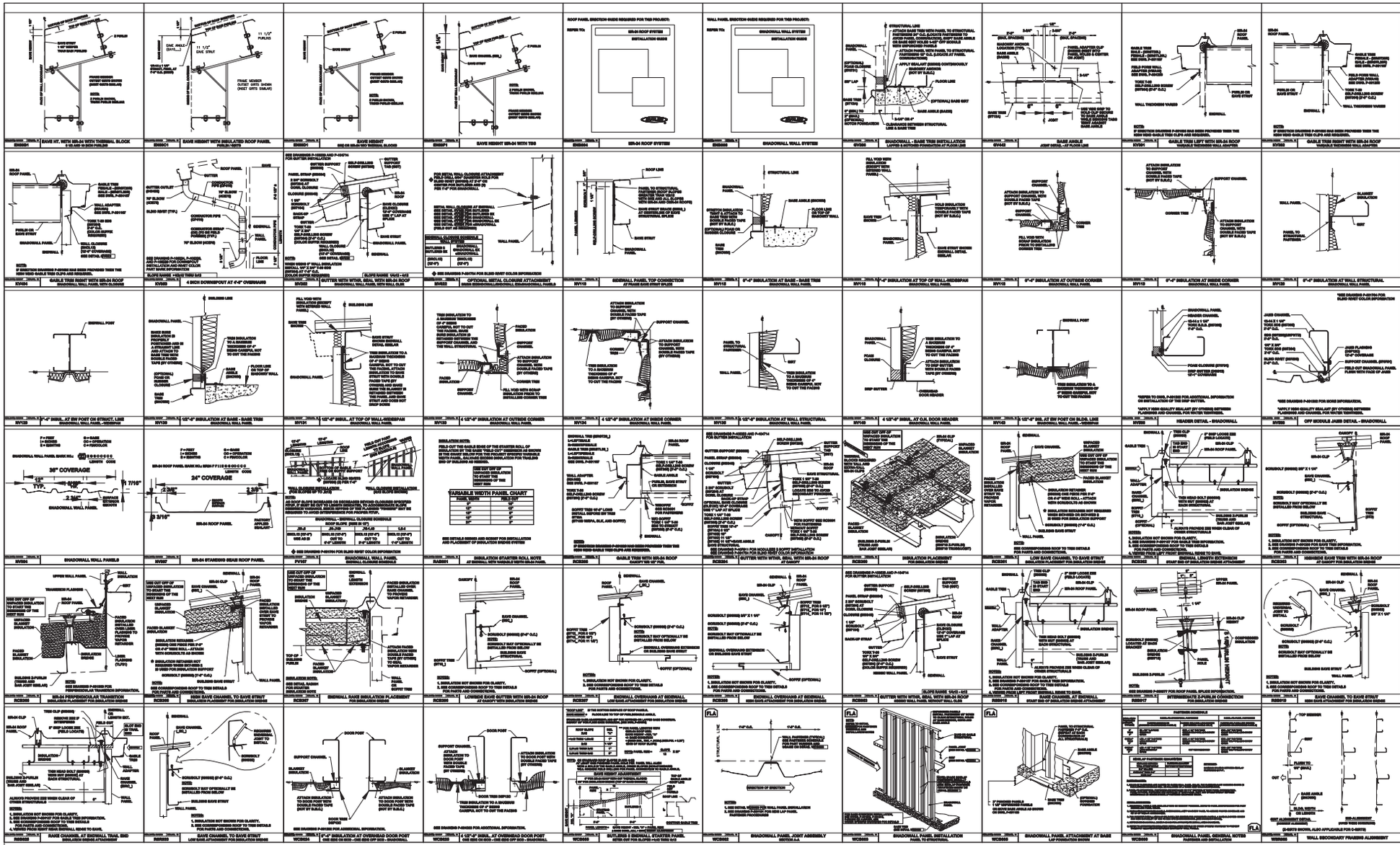

BID SET #1 - ADDENDUM 2

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C

Butler Manufacturing
1540 Genessee St. Kansas City, MO 64102

COVERING & TRIM SED'S

Rev:	Date:	By:	Description:

Drawing Scale: NTS

Builder: STEEL SOLUTIONS, INC.
Customer:
Location: Hollister, California
Project: Hippo Harvest
Builder's PO#: 20-04-990-21

BUTLER
Butler Manufacturing
VPC Version: 25.1.1

Job #:
Date: 8/27/2025
Drawn/Check: /
Page:

VPC Filename: designed

8/27/2025 SEDSheet 17:32:52

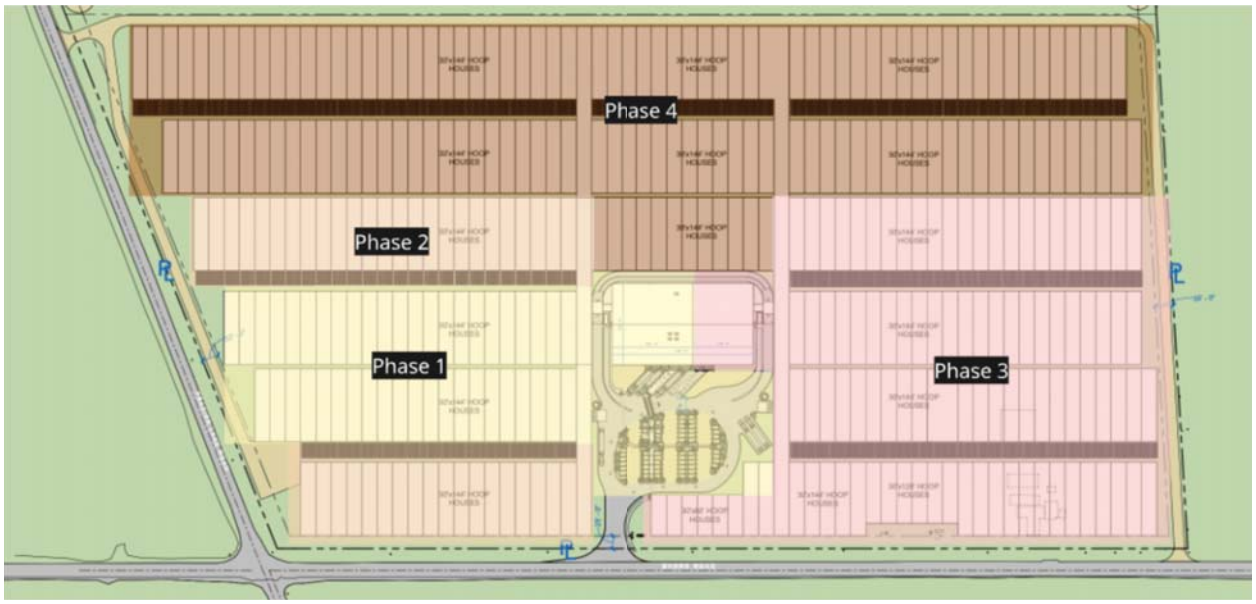
Project Overview

Project Size

Hippo Harvest hopes to build indoor farms on an 80 acre parcel at 2370 Shore Rd in Hollister, CA. At maximum scale, the site would support roughly up to 30 acres of hoop houses on 47 acres of developed land and roughly 25 acres of row crops.

Development will be broken up into four phases and we will only be building phase 1 imminently. Site plans are developed to account for all phases when the site is fully developed. Below are diagrams that outline our phased approach:

- Phase 1: 4 total acres, early to mid 2026 (active)
- Phase 2: 8 total acres, early 2027 (planned)
- Phase 3: 16 total acres, early 2028 (planned)
- Phase 4: 28 total acres, late 2028 (planned)



Infrastructure to Build

Central processing building. This will be a pre-engineered steel building that houses our farming operations (e.g. seeding, harvesting, cleaning, etc.). It's roughly 45,000 sqft at full capacity and 25,000 sqft for phase 1, with a max height of 22ft. Its foundation will be designed according to the soils report and structural engineering calculations.