ROSAMOND HIGH EARLY COLLEGE CAMPUS

2925 WEST ROSAMOND BOULEVARD
ROSAMOND, CA 93560

SOUTHERN KERN UNIFIED SCHOOL DISTRICT

SYMBOLS

Room name
101 — ROOM NAME
? — KEYNOTE
101 — DOOR TAG
1\ — WALL TAG
1t — WINDOW TAG
℄ — CENTERLINE
0 — GRIDLINE
1 / A101 SIM — CALLOUT
1 Ref / Ref / A101 / Ref / 1 Ref — INTERIOR ELEVATION
1 / A101 — EXTERIOR ELEVATION
Name / Elevation — LEVEL
SPOT ELEVATION
1 / A101 SIM — SECTION

APPLICABLE CODES

Part 1	2022 California Building Standards Administrative Code, Titel 24 C.C.R.
Part 2	2019 California Building Code, Title 24 C.C.R. (2018 International Building Code of the Interational Code Council, with California Amendments)
Part 3	2019 California Electrical Code, Title 24 C.C.R. (2016 National Electrical Code of the National Fire Protection Association, NFPA)
Part 4	2019 California Mechanical Code, Title 24 C.C.R (2018 Uniform Mechanical Code of the International Association of Plumbing and Mechanical Officials, IAPMO)
Part 5	2019 California Plumbing Code, Title 24 C.C.R. (2018 Uniform Plumbing Code of the International Association of Plumbing and Mechanical Officials, IAPMO)
Part 6	2019 California Energy Code, Title 24 C.C.R.
Part 8	2019 California Historical Building Code, Title 24 C.C.R.
Part 9	2019 California Fire Code, Title 24 C.C.R. (2018 International Fire Code of the International Code Council)
Part 10	2019 California Existing Building Code, Title 24, C.C.R. (2018 International Existing Building Code of the International Code Council, with amendments)
Part 11	2019 California Green Building Standards Code (CALGreen Code), Title 24 C.C.R.
Part 12	2019 California Referenced Standards Code, Title 24 C.C.R.

PARTIAL LIST OF APPLICABLE STANDARDS:

2019 California Building Code (for SFM) Referenced Standards Chapter 35

NFPA 13	Automatic Sprinkler Systems (California Amended)	2016 Edition
NFPA 14	Standpipe Systems (California Amended)	2013 Edition
NFPA 17	Dry Chemical Exinguishing Systems	2013 Edition
NFPA 17A	Wet Chemical Extinguishing Systems	2013 Edition
NFPA 20	Stationary Pumps	2013 Edition
NFPA 24	Private Fire Service Mains (California Amended)	2016 Edition
NFPA 72	National Fire Alarm and Signaling Code (California Amended) (Note: See UL Standard 1971 for "Visual Devices")	2016 Edition
NFPA 80	Fire Door and Other Opening Protectives	2019 Edition
NFPA 253	Critical Radiant Flux of Floor Covering Systems	2019 Edition
NFPA 2001	Clean Agent Fire Extinguishing Systems (California Amended)	2015 Edition

DEFERRED APPROVAL

APPROVAL OF THE FOLLOWING ITEMS ARE DEFERRED AND SHALL BE SUBMITTED TO THE DIVISION OF THE STATE ARCHITECT FOR REVIEW AND APPROVAL:

32" DEEP OPEN WEB TRUSSES, SEE SHEET S1.10

NOTE: FABRICATION AND INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTOR'S DRAWINGS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS FOR THE ACTUAL SYSTEMS TO BE INSTALLED HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER AND APPROVED BY THE DSA.

ABBREVIATIONS

A.B.	ANCHOR BOLT	I.D.	INSIDE DIAMETER
A.C.	ASPHALTIC CONCRETE PAVING	INSUL.	INSULATION
ACOUS.	ACOUSTICAL	INT.	INTERIOR
A.D.	AREA DRAIN		
A.F.F.	ABOVE FINISHED FLOOR	JST.	JOIST
A.F.S.	ABOVED FINISHED SURFACE	JT.	JOINT
ALUM.	ALUMINUM		
ANOD.	ANODIZED	LAV.	LAVATORY
APPROX.	APPROXIMATE	L.F.	LINEAR FOOT, FEET
ARCH.	ARCHITECT, ARCHITECTURAL	LVR.	LOUVER
A/S	AUTOMATIC SPRINKLERS	LT. WT.	LIGHTWEIGHT
A.S.T.M.	AMERICAN SOCIETY OF TESTING AND MATERIALS	MAS.	MASONRY
		MAX.	MAXIMUM
BD.	BOARD	MECH.	MECHANICAL
BLDG.	BUILDING	MFR.	MANUFACTURER
BLK(G)	BLOCK(ING)	MIN.	MINIMUM
BM.	BEAM	MISC.	MISCELLANEOUS
B.U.	BUILT-UP	MTD.	MOUNTED
		MET.	METAL
CEM	CEMENT		
C.I.	CAST IRON	(N)	NEW
C.J.	CONTROL JOINT	NA	NOT APPLICABLE
C.L. C	CENTER LINE	N.I.C.	NOT IN CONTRACT
CLG.	CEILING	N.T.S.	NOT TO SCALE
CLR.	CLEAR	NO.	NUMBER
C.M.U.	CONCRETE MASONRY UNIT		
COL.	COLUMN	O.C.	ON CENTER
CONC.	CONCRETE	OPNG.	OPENING
CONST.	CONSTRUCTION	O.D.	OUTSIDE DIAMETER
CONT.	CONTINUOUS	OPP.	OPPOSITE
CORR.	CORRIDOR		
C.T.	CERAMIC TILE	PAV.	PAVING, PAVEMENT
CTSK.	COUNTERSUNK	P.H.	PANIC HARDWARE
		PL., P	PLATE
DEMO.	DEMOLITION, DEMOLISH	P-LAM.	PLASTIC LAMINATE
DTL.	DETAIL	PLUMB.	PLUMBING
D.F.	DOUGLAS FIR	PLYWD.	PLYWOOD
D.F.	DRINKING FOUNTAIN	PNT.	PAINT
DIA., ∅	DIAMETER	PREFAB.	PREFABRICATE(D)
DIM.	DIMENSION	P.S.I.	POUNDS PER SQUARE INCH
DN.	DOWN	PTD.	PAINTED
DR.	DOOR		
D.S.	DOWNSPOUT	R, RAD.	RADIUS
DWG.	DRAWING	R.D.	ROOF DRAIN
		REBAR	REINFORCING STEEL
EA.	EACH	REINF.	REFERENCE
E.J.	EXPANSION JOINT	REF.	REINFORCED
ELECT.	ELECTRICAL	REQD.	REQUIRED
ELEV.	ELEVATION	RM.	ROOM
EQ.	EQUAL	R.O.	ROUGH OPENING
EQUIP.	EQUIPMENT		
EXIST., (E)	EXISTING	S.C.	SOLID CORE
EXP.	EXPOSED	SCHED.	SCHEDULE
EXPN.	EXPANSION	S.D.	STORM DRAIN
EXT.	EXTERIOR	SECT.	SECTION
EXTR.	EXTINGUISHER	S.F.	SQUARE FOOT, FEET
E.W.	EACH WAY	SHT.	SHEET
		SIM.	SIMILAR
F.D.	FLOOR DRAIN	SPECS.	SPECIFICATIONS
F.F.	FINISHED FLOOR	S/S	STAINLESS STEEL
F.G.	FINISHED GRADE	STD.	STANDARD
F.H.	FIRE HYDRANT	STL.	STEEL
FIN.	FINISH	STRUCT.	STRUCTURAL, STRUCTURE
FLASH.	FLASHING		
FLR.	FLOOR	T.O.B.	TOP OF BEAM
FDN.	FOUNDATION	T.O.C.	TOP OF CURB
F.O.C.	FACE OF CONCRETE, CURB	T.O.CONC.	TOP OF CONCRETE
F.O.F.	FACE OF FINISH	T.O.D.	TOP OF METAL DECK
F.O.M.	FACE OF MASONRY	T.O.M.	TOP OF MASONRY
F.O.S.	FACE OF STUD	T.O.P.	TOP OF PLATE
FRP	FIBER REINFORCED PLASTIC	T.O.S.	TOP OF SLAB
FT.	FOOT, FEET	T.O.STL.	TOP OF STEEL
FTG.	FOOTING	TYP.	TYPICAL
GA.	GAUGE	U.L.	UNDERWRITERS LABEL
GALV.	GALVANIZED	U.N.O.	UNLESS NOTED OTHERWISE
G.C.	GENERAL CONTRACTOR		
GL.	GLASS, GLAZING	VCT.	VINYL COMPOSITION TILE
GLB	GLUE-LAMINATED BEAM	VERT.	VERTICAL
GR.	GRADE	V.I.F.	VERIFY IN FIELD
GYP.	GYPSUM	V.T.	VINYL TILE
GYP. BD.	GYPSUM WALL BOARD		
		W, (W/O/)	WITH (WITHOUT)
H.M.	HOLLOW METAL	WD.	WOOD
H.C.	HANDICAPPED	W.H.	WATER HEATER
HD(R).	HEAD(ER)	W.I.	WROUGHT IRON
HDWD.	HARDWOOD	WP.	WATERPROOFING
HWR.	HARDWARE	WS	WEATHERSTRIPPING
HORIZ.	HORIZONTAL	WT.	WEIGHT
HT.	HEIGHT		
HVAC	HEATING, VENTILATION AND AIR CONDITIONING		

SCOPE OF WORK

1. (1) 7,322 SQ. FT. CAFETERIA BUILDING, FULLY SPRINKLERED.
2. (1) 2,295 SQ. FT. OUTDOOR DINING AREA
3. (1) 873 SQ. FT. PREFABRICATED FOOD STORAGE/ COOLER/ FREEZER BUILDING.
4. SERVICE YARD WITH TRASH ENCLOSURE AND CAN WASH AREAS.
5. ALL ASSOCIATED SITE IMPROVEMENT WORK AND LANDSCAPING.
6. RETENSION BASIN
7. IMPROVEMENTS TO SCHOOL SITE SEWER SYSTEM.
8. UPGRADE EXISTING ACCESSIBLE PARKING AND PATH OF TRAVEL TO PUBLIC SIDEWALK.

PROJECT DIRECTORY

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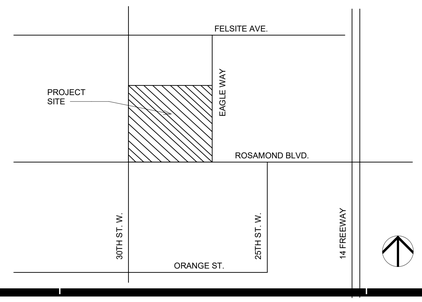
GENERAL NOTES

1. 1.PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING AND PROPOSED CONSTRUCTION, PIPING, CONDUITS, CLEAN-OUTS, PULL BOXES, ETC. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE DISTRICT AND ARCHITECT PRIOR TO COMMENCING WORK.
2. CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL GRADES ELEVATIONS, DIMENSIONS, AND CONDITIONS OF INSTALLATION PRIOR TO PROVIDING BID. ANY DISCREPANCIES DISCOVERED BY THE CONTRACTOR DURING THE ABOVE INVESTIGATIONS SHALL BE REPORTED IMMEDIATELY TO THE ARCHITECT. THE CONTRACTOR BY MEANS OF OFFERING A BID SHALL THEREBY CERTIFY THAT THE ABOVE STATED REQUIREMENTS HAVE BEEN MET.
3. GENERAL CONTRACTOR SHALL INCLUDE ALL LABOR, MATERIAL, EQUIPMENT, AND RANSPORTATION NECESSARY FOR THE COMPLETE AND PROPER EXECUTION OF THE WORK.
4. THE ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC., IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR, AND HAS NOT BEEN CONSIDERED BY THE ARCHITECT AND / OR STRUCTURAL ENGINEER.
5. ALL WORK SHALL CONFORM TO THE "APPLICABLE CODES" AS LISTED HEREON.
6. CONTRACTOR SHALL REMOVE FROM SITE AND DISPOSE OF IN A LEGAL MANNER ALL EXCESS DIRT / SOIL AND DEBRIS RESULTANT OF THE CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT.
7. CONTRACTOR SHALL BE REQUIRED TO OBTAIN ALL NECESSARY PERMITS AND APPROVALS FOR ALL WORK THAT OCCURS IN ANY PUBLIC RIGHT-OF-WAY AND / OR EASEMENT. FEES FOR REQUIRED PERMITS SHALL BE PAID FOR DIRECTLY BY CONTRACTOR AND SHALL BE EIMBURSED BY THE DISTRICT 1:1.
8. PROPERLY REMOVE ALL DEMOLISHED ITEMS AND MATERIALS FROM THE SITE AND DISPOSE OF ALL IN A LEGAL MANNER.
9. REPAIR OR REPLACE EXISTING WALKS, UTILITY LINES, LANDSCAPING, ETC, THAT ARE DAMAGED DURING CONSTRUCTION. PROTECT ALL EXISTING CONSTRUCTION DESIGNATED TO REMAIN.
10. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDA OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT AS REQUIRED BY SECTION 4-338 PART 1, TITLE 24, CCR.
11. A DSA CERTIFIED CLASS 2 PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN THE SECTION 4-342 PART 1, TITLE 24, CCR.
12. D.S.A. ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED AND PAID FOR BY THE DISTRICT SHALL CONDUCT ALL REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
13. CONTRACTOR SHALL NOTIFY DISTRICT AND ARCHITECT IN WRITING UPON COMPLETION OF SITE PREPARATION.
14. PATCH AND REPAIR ALL SURFACES AFFECTED BY CONTRACT WORK AND BY SELECTIVE DEMOLITION TO A "LIKE NEW" CONDITION OR TO MATCH EXISTING ADJACENT FINISHES.
15. ALL CONTRACTORS ARE ADVISED THAT CERTAIN PORTIONS OF THE WORK MAY NOT BE EASY AND MAY EXCEED THE ASSUMED STANDARD OF THE INDUSTRY, INCLUDING MEANS AND METHOD, OPERATIONAL STAGING, SCHEDULING AND COORDINATION OF WORK, AS WELL AS TIME AND DURATION OF ACTIVITIES NECESSARY TO SATISFACTORIL Y COMPLETE THE PROJECT IN ACCORDANCE WITH THIS CONTRACT. CONTRACTOR SHALL PROVIDE ALL NECESSARY LABOR, MATERIALS AND OPERATIONAL SUPPORT NECESSARY TO COMPLETE THE PROJECT AS REQUIRED UNDER THIS CONTRACT.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING WATER NECESSARY FOR CONSTRUCTION. WATER CAN BE MADE AVAILABLE ON-SITE VIA EXISTING HYDRANT, AND SHALL BE PROPERLY METERED THROUGH LOCAL WATER AGENCY.
17. CONTRACTOR MAY ONLY STAGE AND PERFORM WORK IN AREAS SPECIFICALLY IDENTIFIED FOR THIS CONTRACT. ALL WORK REQUIRED TO BE PERFORMED OUTSIDE OF THE DESIGNATED AREAS SHALL REQUIRE MONITORING BY ASSIGNED DISTRICT STAFF OR SHALL BE PERFORMED DURING NON-SCHOOL HOURS. ALL REQUESTS FOR MONITORED WORK SHALL BE MADE IN WRITING 48 HOURS IN ADVANCE BY GENERAL CONTRACTOR AND SCHEDULING SHALL BE SUBJECT TO APPROVAL BY DISTRICT
18. CONSTRUCTION AREA OVERLAPS ACTIVE SERVICE AREAS NECESSARY FOR THE NORMAL DAILY OPERATION OF THE SCHOOL. CONTRACTOR SHALL AT ALL TIMES MAINTAIN AND ALLOW ACCESS ON SITE FOR EMERGENCY VEHICLES, TRASH COLLECTION, LANDSCAPE, GENERAL SCHOOL MAINTENANCE AND FOOD SERVICE DELIVERY. CONTRACTOR SHALL COORDINATE CLOSELY WITH DISTRICT FOR ALL NECESSARY ACCESS.
19. CONTRACTOR SHALL PROVIDE AND MAINTAIN FOR THE DURATION OF THE CONTRACT OPAQUE VINYL SCREENS (TARP OR SIMILAR) PROPERLY SECURED TO ALL TEMPORARY CONSTRUCTION FENCING AND GATES AS WELL AS ALL EXISTING FENCING THAT DEFINES A PERIMETER OF ANY DESIGNATED CONSTRUCTION AREA. SCREENING SHALL BE MINIMUM 6'-0" HIGH AND SHALL BE BLACK, GREEN OR TAN IN COLOR.
20. DUE TO THE ON-GOING OPERATION OF THE ACTIVE SCHOOL SITE DURING CONSTRUCTION, AS WELL AS THE UNIQUE CONSTRAINTS OF THE CONSTRUCTION AREA, CONTRACTOR SHALL BE AWARE THAT THE VEHICULAR DRIVES, ACCESS LANES AND PARKING SHALL BE SHARED AND SHALL NOT SCHEDULE ANY DELIVERIES AS WELL AS SUSPEND CONSTRUCTION TRAFFIC ENTERING AND EXISTING PREMISES DURING THE PERIODS REQUIRED FOR STUDENT DROP-OFF AND PICK-UP. CONTRACTOR SHALL COORDINATE WITH DISTRICT FOR ALL TIME OFF OPERATION FOR THE SITE.
21. FOR THE DURATION OF THE CONTRACT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR STRICT COMPLIANCE WITH LOCAL AGENCY HAVING JURISDICTION FOR ALL, FUGITIVE DUST AND SHALL BE RESPONSIBLE FOR ALL PENALTIES, FINES, ETC. IF THE PROJECT SHOULD BE CITED FOR VIOLATIONS.
22. DUE TO THE SITE CONSTRAINTS OF THE ACTIVE SCHOOL SITE, THE CONTRACTOR MAY BE REQUIRED TO STAGE IN VARIOUS AVAILABLE AREAS ON SITE AND MAY BE REQUIRED TO MOVE OR RELOCATE STAGING DURING THE COURSE OF CONSTRUCTION IN ORDER TO ACCOMMODATE CONSTRUCTION AND SCHEDULE. CONTRACTOR SHALL FACTOR IN ALL NECESSARY MEASURES TO ACCOMMODATE THE TIMELY COMPLETION OF THIS CONTRACT.
23. CONTRACTOR SHALL NOT INTERRUPT ANY UTILITY SERVICE TO ACTIVE SCHOOL SITE WITHOUT EXPRESSED PERMISSION AND PRIOR SCHEDULING WITH DISTRICT.
24. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY CONTRACTOR SUBMITTALS OF DOCUMENTS TO THE DSA BOX.
25. CONTRACTOR MAY UTILIZE EXISTING ELECTRICAL SERVICE IN YARD FOR TEMPORARY POWER. ALL TEMPORARY POWER INSTALLATION SHALL ADHERE TO APPLICABLE CODES. WORK SHALL COMPLY WITH THE PROVISIONS OF CHAPTER 33 OF THE CBC & CFC, "FIRE SAFETY DURING CONSTRUCTION & DEMOLITION".
26. GRADING, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
27. ALL WORK SHALL CONFORM TO 2019 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
28. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AN APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK (SECTION 4-317(C), PART 1, TITLE 24, CCR)
29.

VICINITY MAP



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FS-7.29	FABRICATION DRAWINGS ICS
FS-7.30	FABRICATION DRAWINGS ICS
FS-7.31	FABRICATION DRAWINGS ICS
FS-7.32	FABRICATION DRAWINGS ICS
FS-7.33	FABRICATION DRAWINGS ICS
FS-7.34	FABRICATION DRAWINGS ICS
FS-7.35	FABRICATION DRAWINGS ICS
FS-7.36	FABRICATION DRAWINGS ICS

AGENCY

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APP: 03-122536 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/24/2023

FLEWELLING & MOODY
architects *for* education

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LICENSED ARCHITECT — C-26053 — Rene Dale 08/31/2023 — STATE OF CALIFORNIA

CONSULTANT

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Revisions

No.	Date	Description

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared for a specific site. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Flewelling & Moody.

SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

Drawing Title

COVER SHEET

Job No. 2990.000
Date 01.30.2023
Sheet No. **A0.01**

CAL GREEN MANDATORY MEASURES

5.106.8 Light pollution reduction.
Outdoor lighting systems shall be designed and installed to comply with the following:
1. The minimum requirements in the California Energy Code for Lighting Zones 1-4 as defined in Chapter 10 of the California Administrative Code; and
2. Backlight, Uplight and Glare (BUG) ratings as defined in IESNA TM-15-11; and
3. Allowable BUG ratings not exceeding those shown in Table 5.106.8, or
4. Comply with a local ordinance lawfully enacted pursuant to Section 101.7, whichever is more stringent.

Exceptions:
1. Luminaires that qualify as exceptions in Section 147 of the California Energy Code
2. Emergency lighting.

5.106.10 Grading and paving. Civil DWGs. C3.01 thru C3.02 (Site)
Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following:
1. Swales
2. Water collection and disposal systems
3. French drains
4. Water retention gardens
5. Other water measures which keep surface water away from buildings and aid in groundwater recharge

DIVISION 5.2 - ENERGY EFFICIENCY
GENERAL
5.201.1 California Energy Code.
For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory standards.

Note: It is the intent of this code to encourage building to achieve exemplary performance in the area of energy efficiency. For the purposes of energy efficiency standards, the California Energy Commission believes specifically, a green building should achieve at least a 15 percent reduction in energy usage when compared to the State's mandatory energy efficiency standards.

DIVISION 5.3 - WATER EFFICIENCY AND CONSERVATION
INDOOR WATER USE
5.303.2 Twenty percent (20%) savings.
A schedule of plumbing fixtures and fixture fittings that will reduce the overall use of potable water within the building by 20 percent shall be provided. The reduction shall be based on the maximum allowable water use per plumbing fixture and fittings as required by the California Building Standards Code. The 20 percent reduction in potable water use shall be demonstrated by one of the following methods:
1. Prescriptive method. Each plumbing fixture and fitting shall not exceed the maximum flow rate at ≥ 20 percent reduction as specified in Table 5.303.2.3, or
2. Performance method. A calculation demonstrating a 20% reduction in the building "water use baseline" as established in Table 5.303.2.2 shall be provided.

Table 5.303.2.2
5.303.4 Wastewater reduction. P1.0H-R Plumbing DWGs.
Each building shall reduce by 20 percent wastewater by one of the following methods:
1. The installation of water-conserving fixtures (water closets, urinals) meeting the criteria established in Section 5.303.2

5.303.6 Plumbing fixtures and fittings. P1.0H-R Plumbing DWGs.-AMS MODULAR DWGs
Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall meet the standards referenced in Table 5.503.6.
WATER RESISTANCE AND MOISTURE MANAGEMENT
5.407.1 Weather protection.
Provide a weather-resistant exterior wall and foundation envelope as required by California Building Code Section 1403.2 (Weather Protection) and California Energy Code Section 150 (Mandatory Features and Devices), manufacturer's installation instructions, or local ordinance, whichever is more stringent.
5.407.2 Moisture control.
Employ moisture control measures by the following methods.
5.407.2.1 Sprinklers.
Design and maintain landscape irrigation systems to prevent spray on structures.
5.407.2.2 Entries and openings.
Design exterior entries and/or openings subject to foot traffic or wind-driven rain to prevent water intrusion into buildings.
CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING
5.408.1 Construction waste management.
Recycle and/or salvage for reuse a minimum of 50 percent of the nonhazardous construction waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent.
5.408.1.1 Construction waste management plan.
Where a local jurisdiction does not have a construction and demolition waste management ordinance that is more stringent, submit a construction waste management plant that
1. Identifies the construction waste materials to be diverted from disposal by efficient usage, recycling, reuse on the project or salvage for future use or sale.
2. Determines if construction waste materials will be sorted on-site (source-separated) or bulk mixed (single stream).
3. Identifies diversion facilities where construction waste material collected will be taken.
4. Specifies that the amount of construction waste materials diverted shall be calculated by weight or volume, but not by both.

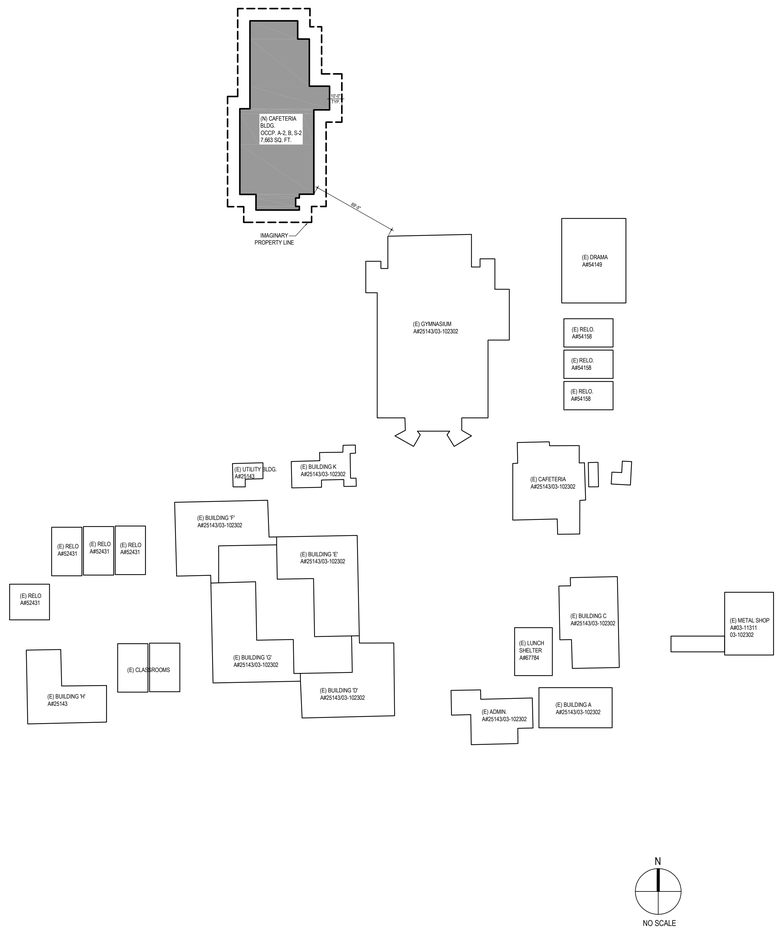
5.408.1.2 Waste management company.
Utilize a waste management company that can provide verifiable documentation that the percentage of construction waste material diverted from the landfill complies with this section.
5.408.1.3 Waste stream reduction alternative.
The combined weight of new construction disposal that does not exceed 2 lbs./sq.ft. of building area may be deemed to meet the 50 percent minimum requirement as approved by the enforcing agency.
5.408.2. Isolated jobsites.
The enforcing agency may make exceptions to the requirements of this section when jobsites are located in areas beyond the haul boundaries of the diversion facility.
BUILDING MAINTENANCE AND OPERATION
5.410.1 Recycling by occupants.
Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics and metals.
5.504.3 Covering of duct openings and protection of mechanical equipment during construction.
At the time of rough installation and during storage on the construction site until final startup of the heating, cooling and ventilating equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheetmetal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which may enter the system.
5.504.4 Finish material pollutant control:
5.504.4.1 Adhesives, sealants, and caulks.
Adhesives, sealants, and caulks used on the project shall meet the requirements of the following standards.
1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers, and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCAQMD Rule 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene, and trichloroethylene), except for aerosol products as specified in Subsection 2, below.
2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of California Code of Regulations, Title 17, commencing with Section 94507.

TABLE 5.504.4.1 - ADHESIVE VOC LIMIT
TABLE 5.504.4.2 - SEALANT VOC LIMIT

5.504.4.3 Paints and coatings.
Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Coatings Suggested Control Measure, as shown in Table 5.504.4.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 5.504.4.3, shall be determined by classifying the coating as a Flat, Nonflat, or Nonflat-High Gloss coating, based on its gloss, as defined in Subsections 4.21, 4.36, and 4.37 of the 2007 California Air Resources Board, Suggested Control Measure, and the corresponding Flat, Nonflat, or Nonflat-High Gloss VOC limit in Table 5.504.4.3 shall apply.
5.504.4.3.1 Aerosol paints and coatings.
Aerosol paints and coatings shall meet the PWMIR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(c)(2) and (d)(2) of California Code of Regulations, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8 Rule 49.
TABLE 5.504.4.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS
5.504.4.4 Carpet systems.
All carpet installed in the building interior shall meet the testing and product requirements of one of the following:
1. Carpet and Rug Institute's Green Label Plus Program.
2. California Department of Public Health Standard Method for the Testing and Evaluation Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, Version1.1, February 2010 (also known as Specification 01350)
3. NSF/ANSI 140 at the Gold level or higher.
4. Scientific Certifications Systems Sustainable Choice.

5.504.4.4.1 Carpet cushion.
All carpet cushion installed in the building interior shall meet the requirements of the Carpet and Rug Institute Green Label program.
5.504.4.4.2 Carpet adhesive.
All carpet adhesive shall meet the requirements of Table 5.504.4.1.
5.504.4.5 Composite wood products.
Hardwood plywood, particleboard, and medium density fiberboard composite wood products used on the interior or exterior of the building shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure for Composite Wood (17 CCR 93120 et seq.), by or before the dates specified in those sections, as shown in Table 5.504.4.5
5.504.4.6 Resilient flooring systems (50%).
For 50% of floor area receiving resilient flooring, install resilient flooring complying with the VOC-emission limits defined in the2009 Collaborative for High Performance Schools (CHPS) criteria and listed on its High Performance Products Database; products complaint with CHPS criteria certified under the Greenguard Children & Schools program; certified under the Resilient Floor Covering Institute (RFCI) FloorScore program; or meet California Department of Public Health 2010 Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, Version 1.1, February 2010 (also known as Specification 01350.)
5.504.5.3.1 Filters.
In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air prior to occupancy that provides at least a Minimum Efficiency Reporting Value (MERV) of 8.
INDOOR MOISTURE CONTROL.
5.505.1 Indoor moisture control.
Buildings shall meet or exceed the provisions of California Building Code, CCR, Title 24,Part 2, Sections 1203 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures not applicable to low-rise residential occupancies, see Section 5.407.2 of this code.
INDOOR AIR QUALITY.
5.506.1 Outside air delivery.
For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 121 (Requirements For Ventilation) of the 2010 California Energy Code, or the applicable local code, whichever is more stringent, and Division 1, Chapter 4 of CCR, Title 8.
OUTDOOR AIR QUALITY.
5.508.1 Ozone depletion and greenhouse gas reductions.
Install HVAC and refrigeration and fire suppression equipment shall comply with 5.508.1.1 and 5.508.1.2.
5.508.1.1 Chlorofluorocarbons (CFCs)
Install HVAC, refrigeration and fire suppression equipment that do not contain CFCs.
5.508.1.2 Halons Install HVAC, refrigeration and fire suppression equipment that do not contain Halons.

SITE KEY PLAN



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NO SCALE

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KEVIN POHLIG
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Ren. Date 08/31/2023
STATE OF CALIFORNIA

CONSULTANT

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Checked by -

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

CODE ANALYSIS, ABBREVIATIONS, SYMBOL LIST, NOTES & LEGENDS

Job No. 2990

Date 01.30.2023

A0.02

CIVIL IMPROVEMENTS FOR CAFETERIA BUILDING AT ROSAMOND HIGH SCHOOL IN THE CITY OF ROSAMOND, CA

SURVEY NOTES

1. MAPPING

TOPOGRAPHIC MAPPING WAS COMPILED AT A SCALE OF 1"=20', WITH A 1 FOOT CONTOUR INTERVAL FROM DATA COLLECTED IN A FIELD SURVEY PERFORMED USING CONVENTIONAL EQUIPMENT AND PROCEDURES IN APRIL 2022, AT THE REQUEST OF FLEWELLING & MOODY.

2. BASIS OF BEARINGS AND COORDINATES

THE BASIS OF BEARINGS FOR THIS SURVEY IS UNKNOWN AS IT IS BASED UPON TIES TO EXISTING PROJECT CONTROL SUPPLIED TO ECG BY OTHERS AND IS ESTABLISHED LOCALLY BY TIES TO CONTROL POINTS 6 AND 8, HAVING A BEARING BETWEEN THEM OF NORTH 32°26'14" EAST BASED UPON THE COORDINATES OF SAID CONTROL POINTS AS SHOWN HEREON.

3. ELEVATIONS

THE VERTICAL DATUM OF THIS SURVEY IS THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), PER GPS TIES & GEOID MODELING (GEOID12B) TO CGPS STATION LIN) AND CONTROL POINT 6 SHOWN HEREON. ELLIPSOID HEIGHTS ARE CONSTRAINED PER CSRC. NO COUNTY BENCHMARKS WERE MEASURED IN THIS SURVEY.

4. UTILITIES

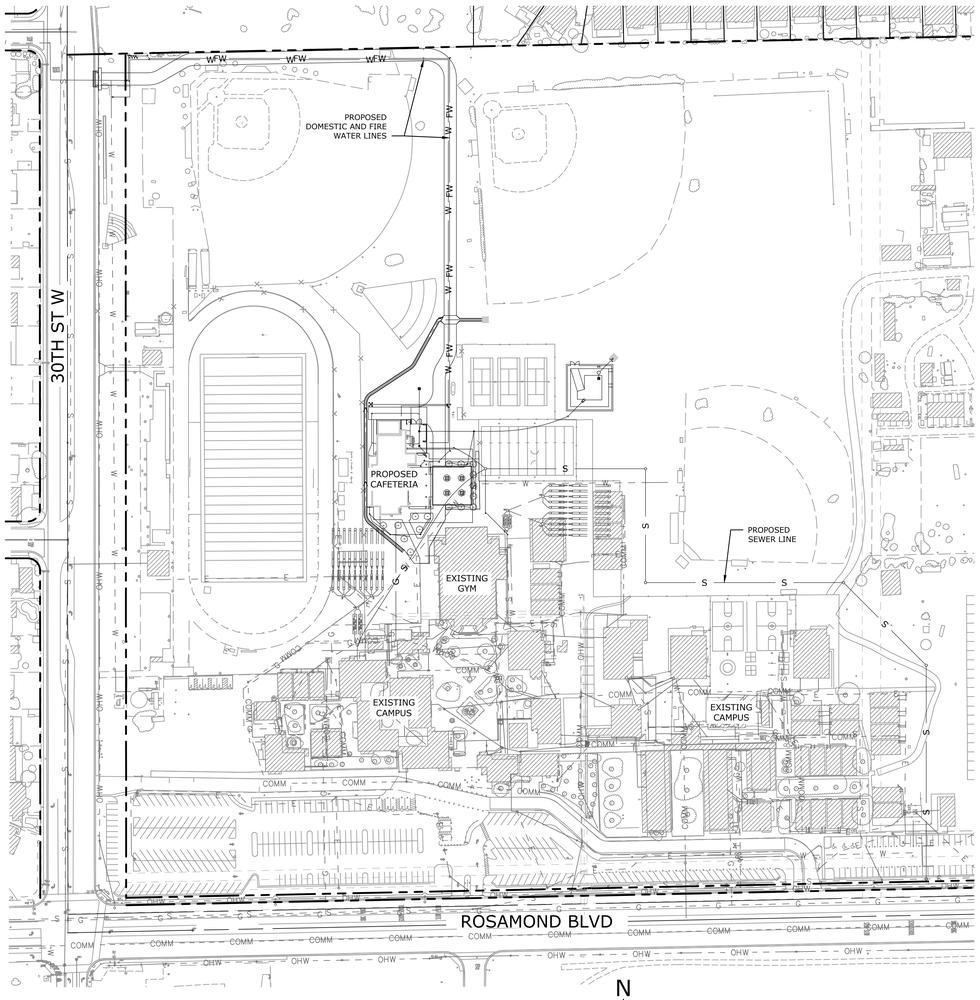
SURFACE UTILITY FEATURES SHOWN HEREON WERE LOCATED AS A PART OF THE FIELD SURVEY PERFORMED BY ECG BASED ON VISIBILITY ON THE DATE OF SURVEY. NO RESEARCH OR MAPPING OF SUBSURFACE UTILITIES HAS BEEN PERFORMED.

CONTROL TABLE

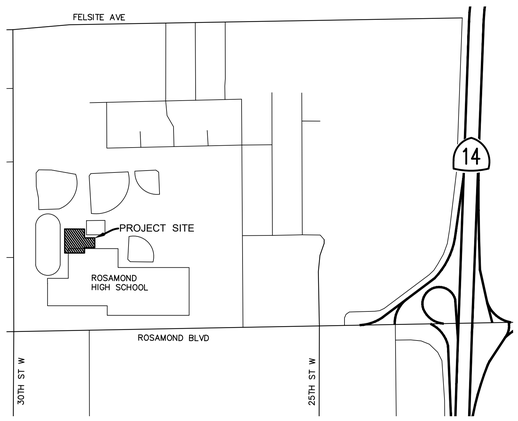
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	2137854.66	6506772.37	2350.32	SET 60D MAG NAIL
2	2137879.65	6506318.89	2354.31	SET 60D MAG NAIL
3	2137605.24	6506732.17	2350.21	SET 60D MAG NAIL
4	2137857.93	6506547.84	2354.06	SET 60D MAG NAIL
5	2137423.21	6506780.82	2351.05	SET 60D MAG NAIL
6	2136883.22	6506230.17	2351.66	HV-6
7	2138351.78	6506228.99	2356.41	HV-7
8	2138481.57	6507245.97	2347.02	HV-8

LEGEND

- SAWCUT LINE
- 2350 — PROPOSED MAJOR CONTOURS
- 2349 — PROPOSED MINOR CONTOURS
- PROPOSED FLOWLINE
- FW — PROPOSED FIREWATER LINE
- S — PROPOSED SEWER LINE
- SD — PROPOSED STORM DRAIN LINE
- W — PROPOSED WATER LINE
- GB — PROPOSED GRADE BREAK
- PROPOSED FENCE
- EXISTING RIGHT OF WAY/PROPERTY LINE
- EXISTING CENTERLINE
- EXISTING EASEMENT
- EXISTING FENCE
- 2350 — EXISTING INTERMEDIATE CONTOURS
- 2349 — EXISTING INDEX CONTOURS
- EXISTING EDGE OF ASPHALT PAVEMENT
- OHW — EXISTING OVER HEAD WIRE
- E — EXISTING ELECTRICAL LINE
- G — EXISTING GAS LINE
- W — EXISTING WATER LINE
- SD — EXISTING STORM DRAIN LINE
- FW — EXISTING FIREWATER LINE
- S — EXISTING SEWER LINE
- COMM — EXISTING COMMUNICATION LINE
- 2410.00 FS — PROPOSED ELEVATION
- (2410.00) EG — EXISTING ELEVATION
- 1.5% — PROPOSED GRADE
- STORM DRAIN INLET
- PROPOSED CONCRETE PAVING
- PROPOSED LANDSCAPE AREA
- PROPOSED VEHICULAR CONCRETE PAVING
- PROPOSED DECOMPOSED GRANITE
- PROPOSED AC PAVING
- FH — PROPOSED FIRE HYDRANT



INDEX MAP
SCALE: 1"=100'



VICINITY MAP
N.T.S.

SHEET INDEX

C1.01	COVER SHEET
C1.02	GENERAL NOTES
C2.01	EROSION CONTROL PLAN
C2.02	EROSION CONTROL DETAILS
C3.01	GRADING AND PAVING PLAN
C3.02	GRADING AND PAVING PLAN
C3.03	SITE SECTIONS
C4.01	WET UTILITY PLAN
C4.02	WET UTILITY PLAN
C4.03	WET UTILITY PLAN
C5.01	DETAILS
C5.02	DETAILS
C5.03	DETAILS
C5.04	SUMP PUMP DETAILS
C6.01	DIMENSION CONTROL PLAN
C6.02	DIMENSION CONTROL PLAN

ENGINEER'S NOTICE TO CONTRACTOR

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES, CONDUITS OR STRUCTURES SHOWN ON THESE PLANS WAS OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN ON THESE DRAWINGS. THE CONTRACTOR FURTHER ASSUMES ALL LIABILITY AND RESPONSIBILITY FOR THE UTILITY PIPES, CONDUITS OR STRUCTURES SHOWN OR NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL POTHOLE ALL EXISTING UTILITIES TO VERIFY THE LOCATION AND ANY DISCREPANCY BETWEEN THE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER.

CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITION DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY AND THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR ALSO AGREES TO DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

JOSIAH D. JENISON — 77454 — R.C.E. — 2/2/2023 DATE

ABBREVIATIONS

ABBR	ABBREVIATION	FG	FINISH GRADE	R.O.W.	RIGHT OF WAY
A.C.	ASPHALT CONCRETE	FL	FLOWLINE	RPD	RESIDENTIAL PLANNED DEVELOPMENT
A.C.P.	ASBESTOS CONCRETE PIPE	FS	FINISHED SURFACE	RT	RIGHT
AP	ANGLE POINT	FT/S	FEET PER SECOND	RW	RECLAIMED WATER
ARCH.	ARCHITECT	FUT	FUTURE	R/W	RIGHT OF WAY
ASSOC.	ASSOCIATION	GB	GRADE BREAK	SCE	SOUTHERN CALIFORNIA EDISON
AVE	AVENUE	GF	GARAGE FLOOR	SCO	SEWER CLEAN OUT
BC	BEGIN CURVE	GM	GAS METER	SD	STORM DRAIN
BCR	BEGIN CURB RETURN	G.P.	GRADING PERMIT	SDMH	STORM DRAIN MANHOLE
BDY.	BOUNDARY	GV	GAS VALVE	SDR	STANDARD DIMENSION RATIO
BEG	BEGIN	HGL	HYDRAULIC GRADE LINE	S.E.	SAND EQUIVALENT
BFP	BACKFLOW PREVENTER	HOA	HOME OWNERS ASSOCIATION	SF	SQUARE FOOT/FEET
BLDG	BUILDING	HORZ.	HORIZONTAL	SHT	SHEET
BOT	BOTTOM OF PIPE	HP	HIGH POINT	SHTS	SHEETS
BS	BOTTOM OF STEP	HPS	HIGH PRESSURE SODIUM	S.L.	SEWER LATERAL
BVC	BEGIN VERTICAL CURVE	HW	HEADWALL	SLDS	STANDARD LAND DEVELOPMENT SPECIFICATIONS
BW	BACK OF WALK OR BOTTOM OF WALL	ICP	INTERLOCKING CONCRETE PAVERS	S'LY	SOUTHERLY
CB	CATCH BASIN	ICV	IRRIGATION CONTROL VALVE	SMH	SEWER MANHOLE
CBC	CALIFORNIA BUILDING CODE	INT.	INTERSECTION	S.N.S.	STREET NAME SIGN
C-C	CENTER TO CENTER	INV	INVERT	SPPWC	STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION
CF	CURB FACE	IRR	IRRIGATION	SS	SANITARY SEWER
CFS	CUBIC FEET PER SECOND	LAT	LATERAL	SSPWC	STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION
CL	CENTERLINE OR CLASS	LDM	LAND DEVELOPMENT MANUAL	ST	STREET
CLF	CHAIN LINK FENCE	LDSP	LANDSCAPE	STD	STANDARD
CLR	CLEAR	LF	LINEAR FEET	SW	SIDEWALK
CMB	CRUSHED MISCELLANEOUS BASE	LN	LANE	SWCT	SAWCUT
CMP	CORRUGATED METAL PIPE	LP	LOW POINT	TC	TOP OF CURB
CMU	CONCRETE MASONRY UNIT	LT	LEFT	TEL	TELEPHONE
CO	CLEANOUT	MAX	MAXIMUM	TG	TOP OF GRATE
CONC	CONCRETE	MH	MANHOLE	TF	TOP OF FOOTING
CONT	CONTROL	MIN	MINIMUM	TI	TRAFFIC INDEX
CPS	CONNECTOR PIPE SCREEN	MOC	MIDDLE OF CURVE	TMH	TELEPHONE MANHOLE
CT	COURT	N'LY	NORTHERLY	TOE	TOE OF SLOPE
DBL	DOUBLE	NO.	NUMBER	TOP	TOP OF SLOPE OR PIPE
DES	DESIGN	N.T.S.	NOT TO SCALE	TPL	TRIPLE
DG	DECOMPOSED GRANITE	O.C.	ON CURB OR ON CURVE OR ON CENTER	TR	TRACT
DI	DROP INLET	OHW	OVERHEAD WIRE	TS	TOP OF STEP
D.I.	DUCTILE IRON	PB	PULL BOX	TW	TOP OF WALL
DIA	DIAMETER	P.C.C.	PORTLAND CEMENT CONCRETE OR POINT OF COMPOUND CURVE	TYP	TYPICAL
DR	DRIVE	PI	POINT OF INTERSECTION	UG	UNDERGROUND
DWG	DRAWING	P/L	PROPERTY LINE	VAR	VARIES
EASE	EASEMENT	PMB	PROCESSED MISC. BASE	V.C.	VERTICAL CURVE
EBAA	EBAA IRON, INC.	POC	POINT OF CONNECTION	VERT.	VERTICAL
EC	END CURVE	PRC	POINT OF REVERSE CURVE	VLT	VAULT
ECR	END CURB RETURN	PT	POINT	VLV	VALVE
EG	EXISTING GROUND	PTDF	PRESSURE TREATED DOUGLAS FIR	W	WATER
ELEC	ELECTRIC	PUB	PUBLIC	W'LY	WESTERLY
ELEV	ELEVATION	PVC	POLYVINYL CHLORIDE	WM	WATER METER
E'LY	EASTERLY	PVMT	PAVEMENT	WSEL	WATER SURFACE ELEVATION
ELLIP	ELLIPTICAL	PVT	PRIVATE	WV	WATER VALVE
EP	EDGE OF PAVEMENT	RCB	REINFORCED CONCRETE BOX	W.W.M.	WELDED WIRE MESH
ESMT	EASEMENT	RCP	REINFORCED CONCRETE PIPE	YR	YEAR
EVC	END VERTICAL CURVE	RD	ROAD		
EQ	EQUIVALENT	RET	RETAINING		
FED.	FEDERAL	RWGV	RESILIENT WEDGE GATE VALVE		
FF	FINISHED FLOOR				

811 Know what's below. Call before you dig.

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ARCHITECT

LICENSED ARCHITECT — JOSIAH D. JENISON — C-26053 — Ren. Date 08/31/2023 — STATE OF CALIFORNIA

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER — JOSIAH D. JENISON — NO 77454 — CIVIL — STATE OF CALIFORNIA

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No.	Date	Description

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared for a specific site. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Flewelling & Moody.

SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

COVER SHEET

Job No. 2990

Date 01.30.2023

C1.01

GENERAL NOTES

1. CONTRACTOR SHALL REVIEW GRADING AND DRAINAGE AND UTILITY PLANS; AND PROTECT ALL EXISTING FACILITIES TO REMAIN. ADJUST ALL UTILITY SURFACE FEATURES TO FINAL GRADES.
2. CONTRACTOR SHALL REMOVE ALL TREES AND EXISTING ROOTS SYSTEMS WITHIN THE PROJECT AREA TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
3. CONTRACTOR SHALL MAINTAIN UTILITY SERVICES TO EXISTING BUILDINGS AND HYDRANTS THROUGHOUT CONSTRUCTION AND COORDINATE ANY SHUT DOWNS WITH THE OWNER'S REPRESENTATIVE.
4. CONTRACTOR SHALL THOROUGHLY REVIEW CONSTRUCTION DOCUMENTS IN THEIR ENTIRETY FOR PROJECT DEMOLITION AND CONSTRUCTION.
5. CONTRACTOR IS RESPONSIBLE FOR DEMOLITION AND REMOVAL OF ALL EXISTING FACILITIES AND FEATURES WITHIN THE PROJECT LIMIT WHICH ARE REQUIRED FOR THE PROJECT CONSTRUCTION. CONTRACTOR SHALL PROTECT ALL EXISTING FACILITIES THAT ARE TO REMAIN IN PLACE AND PROMPTLY REPAIR ANY DAMAGES CAUSED BY DEMOLITION AND CONSTRUCTION AT ITS OWN EXPENSE. ALL EXISTING UTILITIES WITHIN THE BUILDING FOOTPRINT SHALL BE CAPPED AT THE NEAREST TEE, VALVE, OR MANHOLE. CONTRACTOR SHALL REMOVE ALL DEMOLITION/WASTE MATERIALS FROM THE PROJECT SITE AND LEGALLY DISPOSE OF THEM AT A DUMP SITE OFF-CAMPUS.
6. REVIEW LANDSCAPE PLANS FOR IRRIGATION DESIGN TO REMOVE EXISTING IRRIGATION SYSTEM IN CONFLICT WITH CONSTRUCTION, AND CONSTRUCT NEW FACILITIES.
7. CONTRACTOR SHALL CONSTRUCT EROSION CONTROL DEVICES PER PROJECT EROSION CONTROL PLANS AND AS REQUIRED FOR SITE CONDITIONS. NO SILT AND DEBRIS SHALL BE ALLOWED TO DEPART FROM THE CONSTRUCTION LIMITS OR ENTER THE STORM DRAIN SYSTEM.
8. CONTRACTOR SHALL PREPARE AND PROVIDE ALL CONSTRUCTION STAKING FOR THE CONSTRUCTION OF THIS PROJECT.
9. CONTRACTOR SHALL USE PROVIDED COORDINATES TO INITIALLY LOCATE THE BUILDINGS AND CONSTRUCT THE BUILDINGS PER THE ARCHITECTURAL PLANS. THE AUTOCAD DRAWING FILES MAY BE PROVIDED TO THE CONTRACTOR FOR STAKING PURPOSES DURING CONSTRUCTION.
10. CONTRACTOR SHALL PROVIDE A SUITABLE STABILIZED CONSTRUCTION ENTRANCE/EXIT AT ALL ACCESS POINTS FROM THE JOB SITE TO PREVENT TRACKING OF MUD ONTO CAMPUS AND PUBLIC ROADS. ADDITIONALLY PROVIDE SWEEPER SERVICE ON THE FREQUENCY NECESSARY TO MITIGATE UNDESIRABLE CONDITIONS, AS APPROVED BY THE OWNER'S REPRESENTATIVE.
11. CONTRACTOR SHALL SUBMIT A DRAWING OF THE PROPOSED STAGING AREA AND CONSTRUCTION FENCING TO THE OWNER'S REPRESENTATIVE FOR APPROVAL. CONSTRUCTION STAGING SHALL NOT BLOCK FIRE ENGINE ACCESS OR EXISTING FIRE HYDRANTS.

GENERAL DEMOLITION NOTES

1. DEMOLITION SHALL CONSIST OF FURNISHING ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO REMOVE EXISTING STRUCTURES, UTILITIES, AND ALL OTHER MATERIAL FROM THE PROJECT SITE.
2. DISPOSAL OF MATERIALS SHALL BE DONE IN A SAFE AND LEGAL MANNER AND SHALL BE IN ACCORDANCE WITH ALL STATE AND LOCAL REGULATIONS.
3. THE CONTRACTOR SHALL CONTINUOUSLY CLEAN AND REMOVE DEMOLISHED MATERIALS FROM THE SITE EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE. DO NOT ALLOW MATERIALS TO ACCUMULATE ON SITE.
4. EXISTING UNDERGROUND UTILITIES SHALL BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPLACE IN-KIND ANY ITEMS DAMAGED DURING THE DEMOLITION PROCESS THAT ARE INTENDED TO REMAIN.
6. ALL EXISTING LANDSCAPE INSIDE THE LIMITS OF WORK SHALL BE REMOVED, UNLESS OTHERWISE NOTED ON THE PLANS.
7. ALL SURFACE FEATURES FOR EXISTING UNDERGROUND UTILITIES SHALL REMAIN AND BE ADJUSTED TO MATCH NEW FINISH GRADE - UNLESS OTHERWISE NOTED.
8. SAWCUT EXISTING PAVEMENT FULL DEPTH TO A CLEAN STRAIGHT EDGE.
9. ALL TREE ROOTS, ABANDONED IRRIGATION LINES, UTILITY SERVICES, SEPTIC TANKS (AS NOTED) AND SIMILAR MATERIALS SHALL BE REMOVED FROM THE SITE AND VOIDS CREATED THEREBY SHALL BE PROPERLY FILLED AND COMPACTED AS DIRECTED BY THE ENGINEER.
10. CONTRACTOR TO COORDINATE WITH DISTRICT STAFF FOR LOCATION OF EXISTING COMMUNICATION AND ELECTRICAL STUBS.
11. EXCAVATIONS AND DEPRESSIONS RESULTING FROM FOUNDATION AND BELOW-GRADE STRUCTURE REMOVAL SHALL NOT BE FILLED IN PRIOR TO OBSERVATION BY THE GEOTECHNICAL REPRESENTATIVE.
12. CONTRACTOR SHALL PROVIDE LATERAL SUPPORT OF EXCAVATIONS, AS NEEDED, TO PREVENT LATERAL AND VERTICAL MOVEMENT OF ADJACENT EXISTING FACILITIES.

GRADING NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE CALIFORNIA BUILDING CODE. ALL CONSTRUCTION MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTIONS (GREEN BOOK) LATEST EDITION AND AMENDMENTS WHENEVER SPECIAL REQUIREMENTS CONFLICT ON ANY SUBJECT MATTER. THE ENGINEER OF RECORD AND/OR HIS REPRESENTATIVE WILL DETERMINE WHICH SPECIAL REQUIREMENT AND/OR CODE WILL GOVERN.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEARING AND DISPOSAL OF THE PROPOSED WORK AREA.
3. DUST SHALL BE CONTROLLED BY WATERING OR OTHER APPROVED METHODS IN ACCORDANCE WITH CITY, COUNTY, AND STATE ORDINANCES AND STATUTES.
4. NO FILL SHALL BE PLACED ON THE EXISTING GROUND UNTIL THE GROUND HAS BEEN CLEARED OF WEEDS, DEBRIS, TOPSOIL, DELETERIOUS MATERIAL AND SCARFIED PER THE PROJECT SPECIFICATIONS.
5. CUT AND FILL SLOPES SHALL BE NO STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL.
6. FILLS SHALL BE COMPACTED THROUGHOUT TO THE MAXIMUM DENSITY AS DETERMINED THE GEOTECHNICAL ENGINEER.
7. AREAS TO RECEIVE FILL SHALL BE PROPERLY PREPARED AND APPROVED BY THE GEOTECHNICAL ENGINEER AND/OR HIS REPRESENTATIVE PRIOR TO PLACING OF FILL.
8. FILL SLOPES SHALL BE KEYED AND BENCHED WITH APPROVED MATERIAL AND PER THE RECOMMENDATIONS OF THE PROJECT SOILS REPORT.
9. ALL EXISTING FILLS SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER AND OR HIS REPRESENTATIVE BEFORE ANY ADDITIONAL FILLS ARE ADDED.
10. ANY EXISTING IRRIGATION LINES AND CISTERNS SHALL BE REMOVED OR CRUSHED IN PLACE AND BACKFILLED AND APPROVED BY THE GRADING INSPECTOR AND GEOTECHNICAL ENGINEER, UNLESS OTHERWISE NOTED ON THE PLANS.
11. SLOPES EXCEEDING FIVE FEET IN HEIGHT MUST BE PLANTED AND AN APPROVED IRRIGATION SYSTEM SHALL BE INSTALLED.
12. ALL TRENCH BACKFILLS SHALL BE TESTED AND APPROVED BY THE PROJECT GEOTECHNICAL ENGINEER PER THE GRADING AND EXCAVATION CODE.
13. ALL CUT SLOPES SHALL BE INVESTIGATED BOTH DURING AND AFTER GRADING BY AN ENGINEERING GEOLOGIST TO DETERMINE IF ANY SLOPE STABILITY PROBLEM EXISTS SHOULD EXCAVATION DISCLOSE ANY GEOLOGICAL HAZARDS OR POTENTIAL GEOLOGICAL HAZARDS. THE ENGINEERING GEOLOGIST SHALL RECOMMEND NECESSARY TREATMENT TO THE CONSTRUCTION MANAGER FOR APPROVAL.

GRADING NOTES (CONTINUED)

14. THE FINAL COMPACTION REPORT AND APPROVAL FROM THE GEOTECHNICAL ENGINEER SHALL CONTAIN THE TYPE OF FIELD TESTING PERFORMED. THE METHOD OF OBTAINING THE IN-PLACE DENSITY, WHETHER SAND CONE, NUCLEAR GAGE, OR DRIVE RING SHALL BE NOTED FOR EACH TEST. SUFFICIENT MAXIMUM DENSITY DETERMINATIONS SHALL BE PERFORMED TO VERIFY THE ACCURACY OF THE MAXIMUM DENSITY CURVES USED BY THE FIELD TECHNICIAN.
15. SANITARY FACILITIES SHALL BE MAINTAINED ON THE SITE.
16. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF AND PROTECT ALL EXISTING UTILITIES AND TO ENSURE SERVICE IS NOT DISRUPTED TO EXISTING FACILITIES.
17. ALL EXISTING DRAINAGE COURSES ON THE PROJECT SITE MUST CONTINUE TO FUNCTION, ESPECIALLY DURING STORM CONDITIONS AND APPROVED PROTECTIVE MEASURES AND TEMPORARY DRAINAGE PROVISIONS MUST BE PROVIDED TO PROTECT ADJOINING PROPERTIES DURING THE GRADING PROJECT. IN ALL CASES, THE CONTRACTOR SHALL BE HELD LIABLE FOR ANY DAMAGE DUE TO CONSTRUCTING NATURAL OR EXISTING DRAINAGE PATTERNS.
18. WHENEVER THERE IS AN EXISTING CATCH BASIN ALONG OR ADJACENT TO THE CONSTRUCTION SITE FRONTAGE, AN ON-SITE STORM DRAIN OR SWALE SHALL BE CONSTRUCTED TO CONVEY WATER DIRECTLY TO THE BASIN. EXCEPTIONS SHALL REQUIRE APPROVAL BY THE CIVIL ENGINEER.
19. ALL PLANTERS ADJACENT TO THE FOUNDATIONS SHALL BE SEALED ALONG SIDE OF THE FOUNDATION FOOTING AND EXTENDED UNDER THE PLANTER AREA TO A MINIMUM OF 12 INCHES TO PREVENT MOISTURE FROM REACHING THE FOUNDATION SUBGRADE SOILS.
20. EXPORT SOILS MUST GO TO A LEGAL DUMP SITE OR TO A PERMITTED SITE APPROVED BY THE LOCAL AGENCY HAVING JURISDICTION.
21. ANY DIRT, ROCK OR CONSTRUCTION MATERIAL THAT MAY BE TRACKED OR DROPPED WITHIN THE PUBLIC RIGHT-OF-WAY DURING THE TRANSPORTATION OF SAID MATERIAL OR EQUIPMENT ASSOCIATED WITH THE PROJECT SHALL BE CLEANED OR REMOVED DAILY AND AS DEEMED NECESSARY BY THE CONSTRUCTION MANAGER.
22. DIRT ACCESS RAMPS OVER CURB AND GUTTER TO CONSTRUCTION SITE ARE NOT ALLOWED. WHEN NECESSARY FOR ENTRANCE TO SUCH CONSTRUCTION SITES, ASPHALT RAMPS WITH A MINIMUM 3" DIAMETER PIPE WILL BE CONSTRUCTED TO CONVEY GUTTER DRAINAGE. ALL BASE, GRAVEL, SOIL OR OTHER MATERIAL CARRIED INTO THE ROADWAY BY CONTRACTORS PERSONNEL OR EQUIPMENT WILL BE CLEANED AS NECESSARY AND NO LESS THAN ONCE A DAY. TRUCKS HAULING BASE, GRAVEL, FILL OR EXPORT MATERIALS WILL BE TARPED AS NECESSARY TO PREVENT MATERIAL FROM SPILLING INTO THE ROADWAY.
23. PRIOR TO ANY CONSTRUCTION WHICH INVOLVES HAZARDOUS CONDITIONS, THE CONTRACTOR SHALL FIRST OBTAIN A PERMIT FROM THE DIVISION OF OCCUPATIONAL SAFETY AND HEALTH (OSHA).
24. PROPOSED REVISIONS TO THE GRADING PLAN SHALL BE DRAWN IN RED PENCIL ON BOND COPIES OF THE APPROVED PLAN. THESE REDLINES ARE THEN TO BE SUBMITTED TO THE OWNERS REPRESENTATIVES FOR REVIEW AND APPROVAL. ONLY AFTER THE BOND COPIES APPROVAL IS GIVEN SHOULD THE ORIGINALS BE AS-BUILT BY THE ENGINEER/ARCHITECT.
25. RULE 403, AIR QUALITY CONTROL MANAGEMENT DISTRICT, MUST BE IMPLEMENTED DURING CONSTRUCTION.
    a. A PERSON SHALL NOT CAUSE OR ALLOW THE EMISSIONS OF FUGITIVE DUST FROM ANY TRANSPORT, HANDLING, CONSTRUCTION OR STORAGE ACTIVITY SO THAT THE PRESENCE OF SUCH DUST REMAINS VISIBLE IN THE ATMOSPHERE BEYOND THE PROPERTY LINE OF THE EMISSION SOURCE. (DOES NOT APPLY TO EMISSION EMANATING FROM UNPAVED ROADWAYS OPEN TO PUBLIC TRAVEL OR FARM ROADS. THIS EXCLUSION SHALL NOT APPLY TO INDUSTRIAL OR COMMERCIAL FACILITIES).
    b. A PERSON SHALL TAKE EVERY REASONABLE PRECAUTION TO MINIMIZE FUGITIVE DUST EMISSIONS FROM WRECKING EXCAVATION GRADING, CLEARING OF LAND AND SOLID WASTE DISPOSAL OPERATIONS.
    c. A PERSON SHALL NOT CAUSE OR ALLOW PARTICULATE WATER TO EXCEED 100 MICROGRAMS PER CUBIC METER WHEN DETERMINED AS THE DIFFERENCE BETWEEN UPWIND AND DOWN WIND SAMPLES COLLECTED ON HIGH VOLUME SAMPLERS AT THE PROPERTY LINE FOR A MINIMUM OF FIVE HOURS.
    d. A PERSON SHALL TAKE EVERY REASONABLE PRECAUTION TO PREVENT VISIBLE PARTICULATE WATER FROM BEING DEPOSITED UPON PUBLIC ROADWAYS. PRECAUTIONS SHALL INCLUDE BUT ARE NOT LIMITED TO, THE REMOVAL OF PARTICULATE MATTER FROM EQUIPMENT PRIOR TO MOVEMENT ON PAVED STREETS ONTO WHICH SUCH MATERIAL HAS BEEN DEPOSITED.
    e. SUBSECTIONS (A) AND (B) SHALL NOT BE APPLICABLE WHEN THE WIND SPEED INSTANTANEOUSLY EXCEEDS 40 KILOMETERS (25 MILES) PER HOUR, OR WHEN THE AVERAGE WIND SPEED IS GREATER THAN 24 KILOMETERS (15 MILES) PER HOUR. THE AVERAGE WIND SPEED DERMINATIONS SHALL BE ON A 15 MINUTE AVERAGE AT THE NEAREST OFFICIAL AIR-MONITORING STATION OR BY WIND INSTRUMENT LOCATED AT THE SITE BEING CHECKED.
26. CONTRACTORS SHALL USE LOW EMISSION MOBILE CONSTRUCTION EQUIPMENT DURING ALL SITE PREPARATION, GRADING AND CONSTRUCTION ACTIVITIES, WHERE FEASIBLE.
27. CONTRACTORS SHALL MAINTAIN ALL CONSTRUCTION ENGINES TUNED CONSISTENT WITH MANUFACTURER'S SPECIFICATIONS DURING ALL SITE PREPARATION, GRADING AND CONSTRUCTION ACTIVITIES.
28. CONTRACTORS SHALL USE LOW SULFUR FUEL FOR STATIONARY CONSTRUCTION EQUIPMENT AS REQUIRED BY AQMD RULES 431.1 AND 431.2 AND SHALL USE EXISTING POWER SOURCES AND CLEAN FUEL GENERATORS AS FEASIBLE, DURING ALL SITE PREPARATION, GRADING AND CONSTRUCTION ACTIVITIES.
29. CONSTRUCTION PARKING SHALL BE ONSITE. TRAFFIC CONTROL AND ACCESS SHALL BE IN ACCORDANCE WITH COUNTY CONSTRUCTION REQUIREMENTS
30. THE SPEED OF TRUCKS ONSITE SHALL BE LIMITED TO 15 MPH.
31. TRUCKS AND LARGE CONSTRUCTION VEHICLES WILL OBTAIN APPROVED TRUCK ROUTES FROM THE AGENCIES HAVING JURISDICTION OVER PROPOSED ROUTES.
32. THE CONTRACTOR SHALL CONTROL DUST IN AREAS USED FOR OFF-ROAD PARKING MATERIALS LAYDOWN OR THOSE AWAITING FUTURE CONSTRUCTION. FREQUENTLY ACCESSED AREAS SHALL BE PAVED AS EARLY AS POSSIBLE TO MINIMIZE DIRT TRACKOUT TO THE PUBLIC RIGHT OF WAY.
33. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING MEASURES:
    a. CESSATION OF ACTIVITIES DURING A STAGE-2 SMOG EPISODE. CALL 1-800-242-4022 FOR THE DAILY SMOG FORECAST.
    b. TRUCK ROUTES AND SCHEDULES FOR THE RECEIPT OF MATERIALS SHALL BE COORDINATED WITH THE MANAGER OF BUILDING AND SAFETY.
    c. WHERE FEASIBLE, ON-ROAD VEHICLES AND OFF-ROAD EQUIPMENT SHALL BE TURNED OFF AND SUBSEQUENTLY RESTARTED IF THE ANTICIPATED DURATION OF IDLING IS EXPECTED TO EXCEED FIVE (5) MINUTES.
34. THE CONTRACTOR SHALL IMPLEMENT THE FOLLOWING HIGH WIND DUST CONTROL WHEN WIND GUSTS EXCEED 25 MPH:
    a. TERMINATION/MODIFICATION OF OPERATION OF SCRAPERS, GRADERS OR DOZERS ON UNPAVED SURFACES UNTIL WINDS SUBSIDE.
    b. APPLICATION OF WATER AS NEEDED TO ANY UNPAVED SURFACE WITH VEHICLE OR EQUIPMENT OPERATIONS.
    c. APPLICATION OF WATER OR OTHER DUST CONTROL MATERIAL TO ANY PREVIOUSLY GRADED SURFACE IF DUST EMANATION IS VISIBLE FROM SUCH A SURFACE.
35. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EQUIPMENT TO PREVENT VISIBLE SOOT FROM REDUCING LIGHT TRANSMISSION THROUGH THE EXHAUST STACK BY MORE THAN 20 PERCENT FOR MORE THAN THREE MINUTES PER HOUR AND USE LOW-SULFER FUEL AS REQUIRED BY SCAQMD REGULATIONS.
36. TRUCKS USED IN HAULING DIRT TO OR FROM THE SITE ON PUBLIC ROADS WILL BE COVERED OR WILL MAINTAIN A SIX INCH DIFFERENTIAL BETWEEN THE MAXIMUM HEIGHT OF ANY HAULED MATERIAL AND THE TOP OF THE TRAILER. HAUL TRUCK DRIVERS WILL LOAD PRIOR TO LEAVING THE SITE TO PREVENT SOIL LOSS DURING TRANSPORTATION.
37. PURSUANT TO SECTION 8771 OF THE BUSINESS AND PROFESSIONS CODE, EXISTING SURVEY MONUMENTS SHALL BE NOTED AND DOCUMENTED BEFORE CONSTRUCTION. IF MONUMENTS ARE DISTURBED DURING CONSTRUCTION, THE CONTRACTOR SHALL PAY A LICENSED LAND SURVEYOR OR REGISTERED ENGINEER TO RESET SUCH MONUMENTS.

EXISTING UTILITY NOTES

1. THE GENERAL CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT AND NOTIFY APPROPRIATE UTILITY AGENCIES TO VERIFY AND LOCATE ALL EXISTING UNDERGROUND UTILITIES BEFORE COMMENCING ANY EXCAVATION.
2. THE GENERAL CONTRACTOR SHALL POTHOLE TO LOCATE AND VERIFY ALL EXISTING UTILITIES, POINT OF CONNECTIONS, AND CROSSINGS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE OWNERS REPRESENTATIVE.
3. THE LOCATIONS OF EXISTING AND NEW UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY; ALL UTILITIES MAY NOT BE SHOWN.
4. SOME IRRIGATION PIPING AND ELECTRICAL CONDUIT LOCATIONS AND SIZES ARE UNKNOWN AND NOT IDENTIFIED HEREON.
5. SUBSURFACE UTILITIES SHOWN HEREON HAVE BEEN COMPILED FROM RECORD INFORMATION GATHERED FROM VARIOUS SOURCES. THE SUBSURFACE INFORMATION, INCLUDING LOCATION, SIZES, AND CAPACITIES IS AN ESTIMATION BASED ON AVAILABLE DATA AND MAY NOT REPRESENT ACTUAL FIELD CONDITIONS. ECG DOES NOT WARRANT THE ACCURACY OF COMPLETENESS OF SAID RECORD INFORMATION.
6. THE CONTRACTOR, BY ACCEPTING THESE PLANS OR PROCEEDING WITH IMPROVEMENTS PURSUANT THERETO, UNDERSTANDS THAT THEY AGREE TO ASSUME LIABILITY, AND AGREE TO HOLD THE UNDERSIGNED HARMLESS FOR ANY LIABILITY FOR DAMAGE RESULTING FROM THE EXISTENCE OF UNDERGROUND UTILITIES OR STRUCTURES NOT REPORTED TO THE UNDERSIGNED, NOT INDICATED ON THE RECORDS PROVIDED, LOCATED AT VARIANCE WITH THAT REPORTED OR SHOWN ON AVAILABLE RECORDS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES OR STRUCTURES FOUND AT THE SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNERS OF THE UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING TO WORK.
7. THE CONTRACTOR SHALL MAINTAIN EXISTING UTILITY SERVICES TO BUILDINGS OR OTHER STRUCTURES INTENDED TO REMAIN IN OPERATIONAL SERVICE DURING THE COURSE OF CONSTRUCTION.

STORMWATER POLLUTION PLAN NOTES

1. IN CASE OF EMERGENCY CALL: TO BE DETERMINED
2. A STAND-BY CREW FOR EMERGENCY WORK SHALL BE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON (NOVEMBER 1 TO APRIL 15). NECESSARY MATERIALS SHALL BE AVAILABLE ON-SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF EMERGENCY DEVICES WHEN RAIN IS IMMINENT.
3. EROSION CONTROL DEVICES SHOWN ON THIS PLAN MAY BE REMOVED WHEN APPROVED BY THE BUILDING OFFICIAL IF THE GRADING OPERATION HAS PROGRESSED TO THE POINT WHERE THEY ARE NO LONGER REQUIRED.
4. GRADED AREAS ADJACENT TO FILL SLOPES LOCATED AT THE SITE PERIMETER MUST DRAIN AWAY FROM THE TOP OF SLOPE AT THE CONCLUSION OF EACH WORKING DAY. ALL LOOSE SOILS AND DEBRIS THAT MAY CREATE A POTENTIAL HAZARD TO OFF-SITE PROPERTY SHALL BE STABILIZED OR REMOVED FROM THE SITE ON A DAILY BASIS.
5. ALL SILT AND DEBRIS SHALL BE REMOVED FROM ALL DEVICES WITHIN 24 HOURS AFTER EACH RAINSTORM AND BE DISPOSED OF PROPERLY.
6. A GUARD SHALL BE POSTED ON THE SITE WHENEVER THE DEPTH OF WATER IN ANY DEVICE EXCEEDS TWO FEET. THE DEVICE SHALL BE DRAINED OR PUMPED DRY WITHIN 24 HOURS AFTER EACH RAINSTORM. PUMPING AND DRAINING OF ALL BASINS AND DRAINAGE DEVICES MUST COMPLY WITH THE APPROPRIATE BMP FOR DEWATERING OPERATIONS.
7. THE PLACEMENT OF ADDITIONAL DEVICES TO REDUCE EROSION DAMAGE AND CONTAIN POLLUTANTS WITHIN THE SITE IS LEFT TO THE DISCRETION OF THE FIELD ENGINEER. ADDITIONAL DEVICES AS NEEDED SHALL BE INSTALLED TO RETAIN SEDIMENTS AND OTHER POLLUTANTS ON SITE.
8. DESILTING BASIN MAY NOT BE REMOVED OR MADE INOPERABLE BETWEEN NOVEMBER 1 AND APRIL 15 OF THE FOLLOWING YEAR WITHOUT THE APPROVAL OF THE BUILDING OFFICIAL. STORM WATER POLLUTION AND EROSION CONTROL DEVICES ARE TO BE MODIFIED, AS NEEDED, AS THE PROJECT PROGRESSES, THE DESIGN AND PLACEMENT OF THESE DEVICES IS THE RESPONSIBILITY OF THE FIELD ENGINEER.
9. PLANS REPRESENTING CHANGES MUST BE SUBMITTED FOR APPROVAL IF REQUESTED BY THE BUILDING OFFICIAL.
10. EVERY EFFORT SHOULD BE MADE TO ELIMINATE THE DISCHARGE OF NON STORM WATER FROM THE PROJECT SITES AT ALL TIMES.
11. ERODED SEDIMENTS AND OTHER POLLUTANTS MUST BE RETAINED ON-SITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEET FLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE COURSES OR WIND.
12. STOCKPILES OF EARTH AND OTHER CONSTRUCTION-RELATED MATERIALS MUST BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY THE FORCES OF WIND OR WATER.
13. FUELS, OILS, SOLVENTS, AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTING AND AREA NOT TO CONTAMINATE THE SOILS AND SURFACE WATERS. ALL APPROVED STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MUST BE CLEANED UP IMMEDIATELY AND DISPOSED OF IN A PROPER MANNER. SPILLS MAY NOT BE WASHED INTO THE DRAINAGE SYSTEM.
14. EXCESS OR WASTE CONCRETE MAY NOT BE WASHED INTO THE PUBLIC WAY OR ANY OTHER DRAINAGE SYSTEM. PROVISIONS SHALL BE MADE TO RETAIN CONCRETE WASTES ON-SITE UNTIL THEY CAN BE DISPOSED OF AS SOLID WASTE.
15. CONTRACTORS ARE RESPONSIBLE TO INSPECT ALL EROSION CONTROL DEVICES BMPs ARE INSTALLED AND FUNCTIONING PROPERLY IF THERE IS A 40% CHANCE OF 0.25 INCHES OR GREATER OF PREDICTED PRECIPITATION, AND AFTER ACTUAL PRECIPITATION. A CONSTRUCTION SITE INSPECTION CHECKLIST AND INSPECTION LOG SHALL BE MAINTAINED AT THE PROJECT SITE AT ALL TIMES AND AVAILABLE FOR REVIEW BY THE BUILDING OFFICIAL. (COPIES OF THE SELF INSPECTION CHECK LIST AND INSPECTION LOGS ARE AVAILABLE UPON REQUEST).
16. TRASH AND CONSTRUCTION-RELATED SOLID WASTES MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION OR RAINWATER AND DISPERSAL BY WIND.
17. SEDIMENTS AND OTHER MATERIALS MAY NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS MUST BE STABILIZED SO AS TO INHIBIT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC WAY. ACCIDENTAL DEPOSITIONS MUST BE SWEPT UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS.
18. ANY SLOPES WITH DISTURBED SOILS OR DENUDED OF VEGETATION MUST BE STABILIZED SO AS TO INHIBIT EROSION BY WIND AND WATER.
19. THE FOLLOWING BMPs FROM THE "CALIFORNIA STORM WATER BMP CONSTRUCTION HANDBOOK" - LATEST EDITION, MUST BE IMPLEMENTED FOR ALL CONSTRUCTION ACTIVITIES AS APPLICABLE.

STORMWATER POLLUTION PLAN NOTES (CONTINUED)

EROSION CONTROL:

EC-1	SCHEDULING
EC-2	PRESERVATION OF EXISTING VEGETATION
EC-3	HYDRAULIC MULCH
EC-4	HYDROSEEDING
EC-5	SOIL BINDERS
EC-6	STRAW MULCH
EC-7	GEOTEXTILES & MATS
EC-8	WOOD MULCHING
EC-9	EARTH DIKES AND DRAINAGE SWALES
EC-10	VELOCITY DISSIPATION DEVICES
EC-11	SLOPE DRAINS
EC-12	STREAMBANK STABILIZATION
EC-13	RESERVED
EC-14	COMPOST BLANKETS
EC-15	SOIL PREPARATION/ROUGHENING
EC-16	NON-VEGETATIVE STABILIZATION

TEMPORARY SEDIMENT CONTROL:

SE-1	SILT FENCE
SE-2	SEDIMENT BASIN
SE-3	SEDIMENT TRAP
SE-4	CHECK DAM
SE-5	FIBER ROLLS
SE-6	GRAVEL BAG BERM
SE-7	STREET SWEEPING AND VACUUMING
SE-8	SANDBAG BARRIER
SE-9	STRAW BALE BARRIER
SE-10	STORM DRAIN INLET PROTECTION
SE-11	ACTIVE TREATMENT SYSTEMS
SE-12	TEMPORARY SILT DIKE
SE-13	COMPOST SOCKS AND BERMS
SE-14	BIOFILTER BAGS

EQUIPMENT TRACKING CONTROL:

TC-1	STABILIZED CONSTRUCTION ENTRANCE/EXIT
TC-2	STABILIZED CONSTRUCTION ROADWAY
TC-3	ENTRANCE/OUTLET TIRE WASH

WIND EROSION CONTROL:

WE-1	WIND EROSION CONTROL

NON-STORMWATER MANAGEMENT:

NS-1	WATER CONSERVATION PRACTICES
NS-2	DEWATERING OPERATIONS
NS-3	PAVING AND GRINDING OPERATIONS
NS-4	TEMPORARY STREAM CROSSING
NS-5	CLEAR WATER DIVERSION
NS-6	ILLICIT CONNECTION/DISCHARGE
NS-7	POTABLE WATER/IRRIGATION
NS-8	VEHICLE AND EQUIPMENT CLEANING
NS-9	VEHICLE AND EQUIPMENT FUELING
NS-10	VEHICLE AND EQUIPMENT MAINTENANCE
NS-11	PILE DRIVING OPERATIONS
NS-12	CONCRETE CURING
NS-13	CONCRETE FINISHING
NS-14	MATERIAL OVER WATER
NS-15	DEMOLITION ADJACENT TO WATER
NS-16	TEMPORARY BATCH PLANTS

WASTE MANAGEMENT & MATERIAL POLLUTION CONTROL:

WM-1	MATERIAL DELIVERY AND STORAGE
WM-2	MATERIAL USE
WM-3	STOCKPILE MANAGEMENT
WM-4	SPILL PREVENTION AND CONTROL
WM-5	SOLID WASTE MANAGEMENT
WM-6	HAZARDOUS WASTE MANAGEMENT
WM-7	CONTAMINATED SOIL MANAGEMENT
WM-8	CONCRETE WASTE MANAGEMENT
WM-9	SANITARY/SEPTIC WASTE MANAGEMENT
WM-10	LIQUID WASTE MANAGEMENT

NOTE:
SITE INSPECTIONS ARE REQUIRED BEFORE AND AFTER STORMS TO ENSURE THAT ALL BMP'S ARE FUNCTIONAL AND TO DETERMINE MAINTENANCE.

Know what's below. Call before you dig.

AGENCY

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122536 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/24/2023

FLEWELLING & MOODY
architecture planning interiors

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C-26053
Ren. Date 08/31/2025
STATE OF CALIFORNIA

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER
JOSHUA D. JENSON
NO 77454
CIVIL
STATE OF CALIFORNIA

ECG
Encompass Consultant Group
25115 AVE STANFORD, SUITE #320, SANTA CLARITA, CA 91355
PHONE: 661.600.9367 WEBSITE: WWW.ECGCIVIL.COM

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

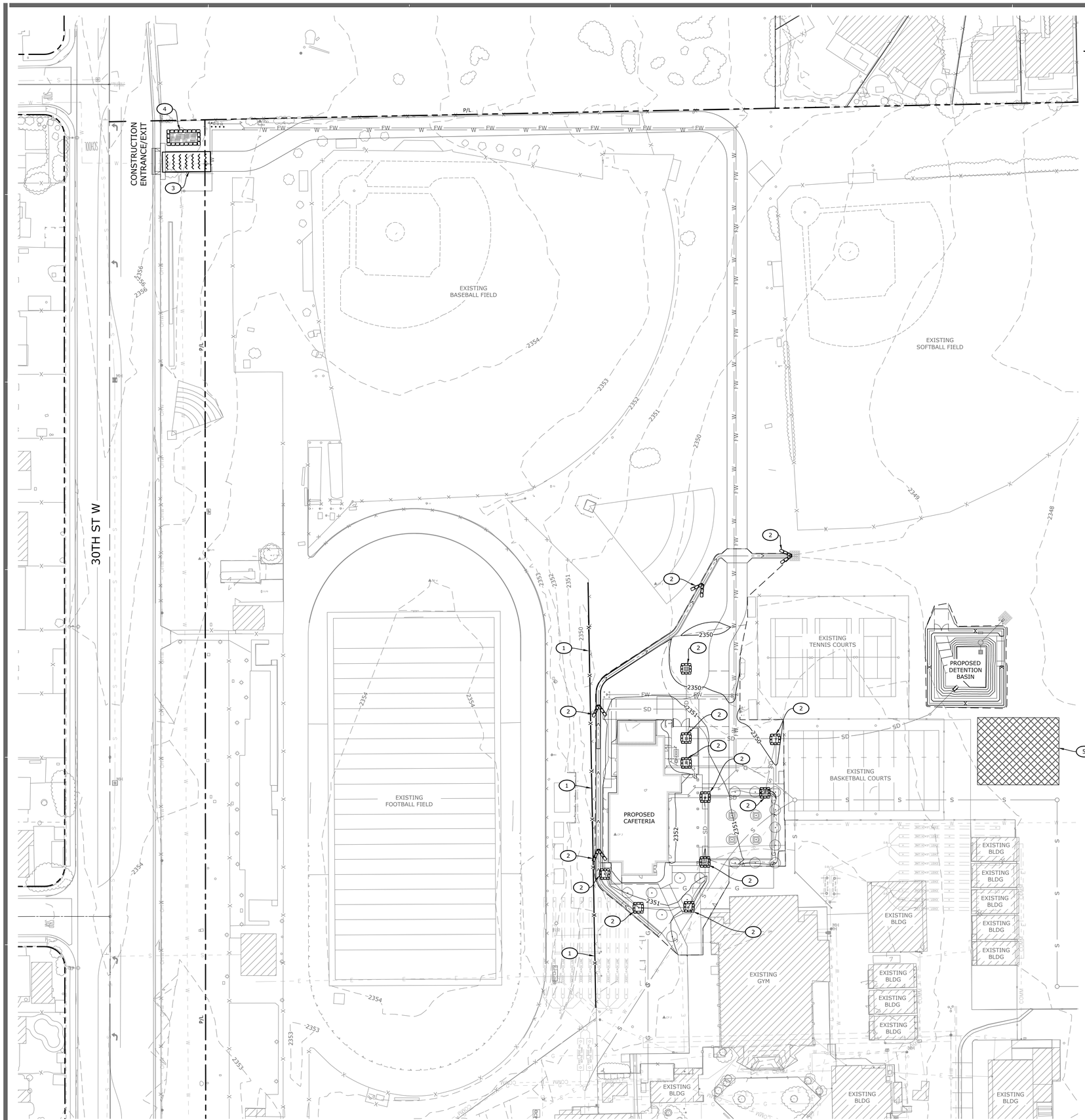
2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

GENERAL NOTES

Job No.
2990

Date
01.30.2023

C1.02



EROSION CONTROL CONSTRUCTION NOTES

1. CONSTRUCT SILT FENCE PER BMP SE-1 IN CURRENT CASQA CONSTRUCTION BMP HANDBOOK AND DETAIL "A" ON SHEET C2.02, PRIOR TO AND DURING GRADING AND THE ESTABLISHMENT OF SITE LANDSCAPING AND PLANTINGS.
2. CONSTRUCT TEMPORARY GRAVEL BAG CHECK DAM OR CATCH BASIN SEDIMENT BARRIER PER BMP SE-4 AND SE-10 IN CURRENT CASQA CONSTRUCTION BMP HANDBOOK. SEE DETAIL "B" ON SHEET C2.02. ALL GRAVEL BAGS MUST BE IN PLACE DURING PROJECT CONSTRUCTION.
3. CONSTRUCT "RUMBLE RACKS" AT ALL CONSTRUCTION SITE EXITS. RECOMMENDED LOCATION SHOWN, CONTRACTOR SHALL SUBMIT FINAL LOCATION TO SCHOOL'S REPRESENTATIVE FOR APPROVAL PRIOR TO CONSTRUCTION. SEE BMP TC-1 IN CURRENT CASQA CONSTRUCTION BMP HANDBOOK AND DETAIL "C" ON SHEET C2.02.
4. PROPOSED CONCRETE WASH-OFF AREA PER BMP WM-8 IN CURRENT CASQA CONSTRUCTION BMP HANDBOOK AND DETAIL "D" ON SHEET C2.02. WASH-OFF AREA SHALL BE IN PLACE AT ALL TIMES DURING GRADING AND PAVING OPERATIONS. CONTRACTOR SHALL NOT TRACK SOLIDS OR CONCRETE WASH OUT OR DEBRIS ON PUBLIC ROADWAYS. RECOMMENDED LOCATION SHOWN, CONTRACTOR SHALL SUBMIT FINAL LOCATION TO SCHOOL'S REPRESENTATIVE FOR APPROVAL PRIOR TO CONSTRUCTION.
5. PROPOSED STOCKPILE AND MATERIAL STORAGE AREA PER BMP WM-1 AND WM-3 IN CURRENT CASQA CONSTRUCTION BMP HANDBOOK AND DETAIL "E" ON SHEET C2.02.

N
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SCALE: 1"=40'
0 40 80 120

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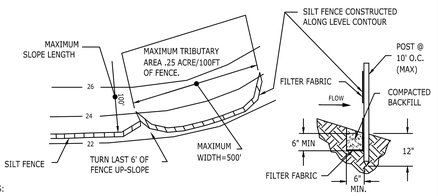
EROSION CONTROL PLAN

Job No.
2990

Date
01.30.2023

C2.01

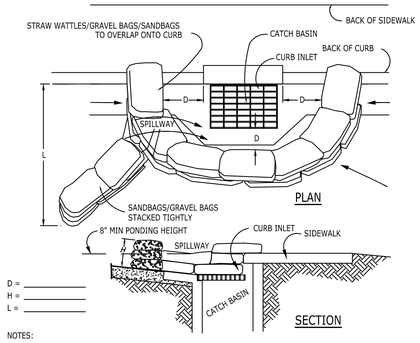
A SILT FENCE SE-1



NOTES:

1. CONSTRUCT THE SILT FENCE ALONG A LEVEL CONTOUR.
2. SILT FENCES SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS PERMANENTLY STABILIZED.
3. PROVIDE SUFFICIENT ROOM FOR RUNOFF TO POND BEHIND THE FENCE AND ALLOW SEDIMENT REMOVAL EQUIPMENT TO PASS BETWEEN THE SILT FENCE AND TOE OF SLOPE OR OTHER OBSTRUCTIONS. ABOUT 1200 SQ. FT. OF PONDING AREA SHALL BE PROVIDED FOR EVERY ACRE DRAINING TO THE FENCE.
4. TURN THE ENDS OF THE FILTER FENCE UPHILL TO PREVENT STORMWATER FROM FLOWING AROUND THE FENCE.
5. LEAVE AN UNDISTURBED OR STABILIZED AREA IMMEDIATELY DOWNSLOPE FROM THE FENCE.
6. DO NOT PLACE IN LIVE STREAM OR INTERMITTENTLY FLOWING CHANNELS.
7. WHEN STANDARD FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY-DUTY WIRE STAPLES AT LEAST 1 INCH LONG, TIE WIRES OR HOG RINGS.
8. REFER ALSO TO BMP SE-1 FROM 2013 CALIFORNIA STORMWATER B.M.P. HANDBOOK FOR CONSTRUCTION.

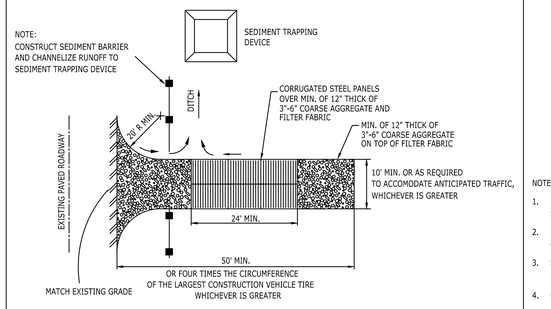
B CATCH BASIN/INLET PROTECTION SE-10



NOTES:

1. CATCH BASIN/INLET PROTECTION SHALL BE INSTALLED WHEREVER THERE IS A POTENTIAL OF STORMWATER OR NON-STORMWATER BEING DISCHARGED INTO IT.
2. INLET PROTECTION IS REQUIRED ALONG WITH OTHER POLLUTION PREVENTION MEASURES SUCH AS; EROSION CONTROL, SOIL STABILIZATION, AND MEASURES TO PREVENT TRACKING ONTO PAVED SURFACES.
3. MODIFY INLET PROTECTION AS NEEDED TO AVOID CREATING TRAFFIC HAZARDS.
4. INCLUDE INLET PROTECTION MEASURES AT HILLSIDE V-DITCHES AND MISC. DRAINAGE SWALES.
5. INLET PROTECTION SHALL BE INSPECTED AND ACCUMULATED SEDIMENTS REMOVED. SEDIMENT SHALL BE DISPOSED OF PROPERLY AND IN A MANNER THAT ASSURES THAT THE SEDIMENT DOES NOT ENTER THE STORM DRAIN SYSTEM.
6. DAMAGED BAGS SHALL BE REPLACED IMMEDIATELY.
7. ADDITIONAL SANDBAG SEDIMENT TRAPS SHALL BE PLACED AT INTERVALS AS INDICATED ON SITE PLAN.

C STABILIZED CONSTRUCTION ENTRANCE TC-1



NOTES:

1. SEDIMENTS AND OTHER MATERIALS SHALL NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS SHALL BE STABILIZED SO AS TO PREVENT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC ROADS. DEPOSITIONS MUST BE SWEPT UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS INTO THE STORM DRAIN SYSTEM.
2. STABILIZED CONSTRUCTION ENTRANCE SHALL BE:
   A. LOCATED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE TO OR FROM A PUBLIC RIGHT OF WAY, STREET, ALLEY, AND SIDEWALK OR PARKING AREA.
   B. A SERIES OF STEEL PLATES WITH "RUMBLE STRIPS", AND/OR MIN 3"-6" COARSE AGGREGATE WITH LENGTH, WIDTH & THICKNESS AS NEEDED TO ADEQUATLY PREVENT ANY TRACKING ONTO PAVED SURFACES.
3. ADDING A WASH RACK WITH A SEDIMENT TRAP LARGE ENOUGH TO COLLECT ALL WASH WATER CAN GREATLY IMPROVE EFFICIENCY.
4. ALL VEHICLES ACCESSING THE CONSTRUCTION SITE SHALL UTILIZE THE STABILIZED CONSTRUCTION ENTRANCE SITES.

STREET MAINTENANCE SE-7

NOTES:

1. REMOVE ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS IMMEDIATELY.
2. SWEEP PAVED AREAS THAT RECEIVE CONSTRUCTION TRAFFIC WHENEVER SEDIMENT BECOMES VISIBLE.
3. PAVEMENT WASHING WITH WATER IS PROHIBITED IF IT RESULTS IN A DISCHARGE TO THE STORM DRAIN SYSTEM.

D CONCRETE WASTE MANAGEMENT WM-8

NOTES:

1. EXCESS AND WASTE CONCRETE SHALL NOT BE WASHED INTO THE STREET OR INTO A DRAINAGE SYSTEM.
2. FOR WASHOUT OF CONCRETE AND MORTAR PRODUCTS, A DESIGNATED CONTAINMENT FACILITY OF SUFFICIENT CAPACITY TO RETAIN LIQUID AND SOLID WASTE SHALL BE PROVIDED ON SITE.
3. SLURRY FROM CONCRETE AND ASPHALT SAW CUTTING SHALL BE VACUUMED OR CONTAINED, DRIED, PICKED UP AND DISPOSED OF PROPERLY.
4. CONCRETE WASHOUT AREA SHALL BE LINED WITH A MINIMUM 10 MIL. POLYETHYLENE SHEETING. REFER TO BMP #WM-8 FROM THE 2013 CALIFORNIA CONSTRUCTION BMP HANDBOOK

E MATERIAL STORAGE AND DELIVERY WM-1

APPLY BMP WM-1 FROM THE 2013 CALIFORNIA STORMWATER BMP HANDBOOK FOR CONSTRUCTION AVAILABLE AT www.cabmphandbooks.com.

MINIMUM REQUIREMENTS FROM WM-1:

1. MATERIAL DELIVERY AND STORAGE AREAS SHOULD BE LOCATED NEAR THE CONSTRUCTION ENTRANCES, AWAY FROM WATERWAYS OR DRAINAGE PATHS. PREFERRED METHOD OF MATERIAL STORAGE IS INDOORS WITHIN EXISTING STRUCTURES OR SHEDS WHEN AVAILABLE. AT A MINIMUM, MATERIAL STORAGE AREA SHALL BE SURROUNDED WITH PROTECTIVE BERMS.
2. MATERIALS SHOULD BE STORED IN THEIR ORIGINAL CONTAINERS AND THE ORIGINAL PRODUCT LABELS SHOULD BE MAINTAINED IN PLACE IN A LEGIBLE CONDITION.
3. MATERIALS SHOULD BE STORED ON PALLETS AND SHOULD NOT BE ALLOWED TO ACCUMULATE ON THE GROUND. SECONDARY CONTAINMENT SHALL BE PROVIDED, WHEN POSSIBLE, TO PROVIDE PROTECTION FROM WIND AND RAIN, MATERIALS SHOULD BE COVERED DURING NON-WORKING DAYS AND PRIOR TO AND DURING RAIN OR WIND EVENTS.
4. EMPLOYEES AND SUBCONTRACTORS SHALL BE TRAINED ON PROPER MATERIAL DELIVERY AND STORAGE PRACTICES AND IN EMERGENCY SPILL CLEANUP PROCEDURES.

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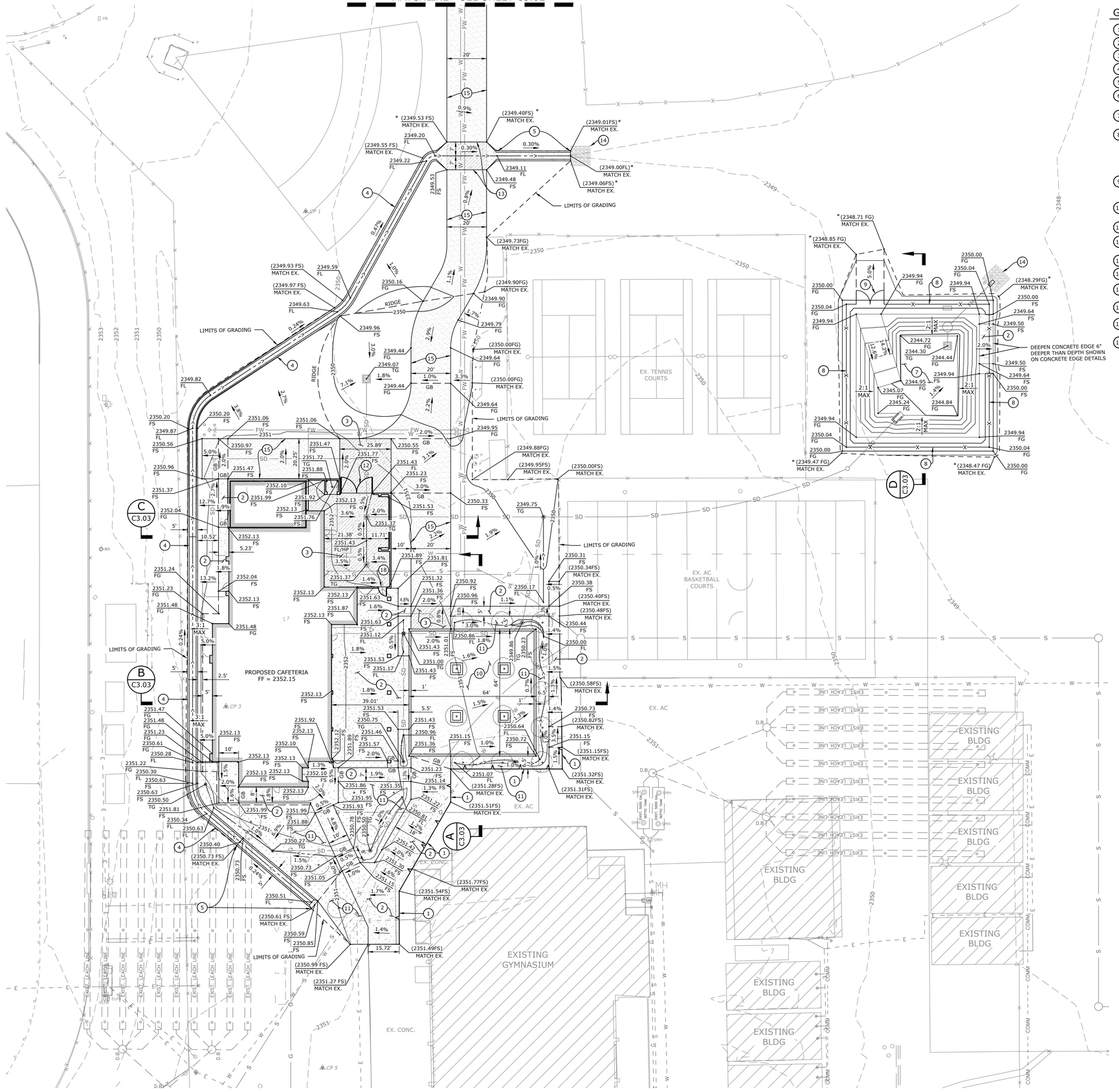
EROSION CONTROL DETAILS

Job No. 2990

Date 01.30.2023

C2.02



GRADING AND DRAINAGE CONSTRUCTION NOTES

1. SAWCUT PCC OR AC PAVEMENT TO LIMITS SHOWN.
2. CONSTRUCT PCC WALKWAY (4" THICK) PER DETAIL "A" ON SHEET C5.01.
3. CONSTRUCT VEHICULAR CONCRETE (6" THICK) PER DETAIL "E" ON SHEET C5.01.
4. CONSTRUCT 5'-WIDE, 4" DEEP CONCRETE GUTTER PER DETAIL "F" ON SHEET C5.01.
5. CONSTRUCT 5'-WIDE, VARIABLE DEPTH CONCRETE GUTTER PER DETAIL "G" ON SHEET C5.01.
6. CONSTRUCT NEW CONCRETE DRIVEWAY TYPE "B" PER KERN COUNTY DEVELOPMENT STANDARD PLATE NO. R-54. SEE DETAIL "QQ" ON SHEET C5.03.
7. CONSTRUCT DETENTION BASIN PER KERN COUNTY DRAINAGE DEVELOPMENT STANDARD PLATE NO. D-1. SEE DETAIL "JJ" ON SHEET C5.02.
8. CONSTRUCT CHAIN LINK FENCE AROUND RETENTION BASIN PER KERN COUNTY DRAINAGE DEVELOPMENT STANDARD PLATE NO. D-10. SEE DETAIL "LL" ON SHEET C5.03. MODIFIED TO BE BLACK VINYL CHAIN LINK PER ARCHITECT'S PLAN. CONSTRUCT CURBING AT BASE OF FENCE PER PER KERN COUNTY DRAINAGE DEVELOPMENT STANDARD PLATE NO. D-2. SEE DETAIL "KK" ON SHEET C5.02. OMIT CURB WHERE FENCE IS ON TOP OF CONCRETE SPILLWAY.
9. CONSTRUCT DOUBLE CHAIN LINK GATE PER KERN COUNTY DRAINAGE DEVELOPMENT STANDARD PLATE NO. D-11. SEE DETAIL "MM" ON SHEET C5.03. MODIFIED TO BE BLACK VINYL CHAIN LINK PER ARCHITECT'S PLAN.
10. CONSTRUCT DECOMPOSED GRANITE PER ARCHITECT'S PLAN. SEE ARCHITECT'S PLAN FOR CONCRETE BANDING WHERE APPLICABLE.
11. CONSTRUCT LANDSCAPING PER LANDSCAPE ARCHITECT'S PLAN.
12. CONSTRUCT FENCE/GATE PER ARCHITECT'S PLAN. SEE ARCHITECT'S PLAN FOR LOCATION OF MOW STRIP UNDER FENCE.
13. CONSTRUCT 14'-WIDE CONCRETE RIBBON GUTTER PER DETAIL "H" ON SHEET C5.01.
14. CONSTRUCT 10'X10' GROUTED RIP RAP PAD PER DETAIL "J" ON SHEET C5.01.
15. CONSTRUCT DECOMPOSED GRANITE FIRE LANE WITH REDWOOD HEADER EDGE PER DETAIL 3 ON ARCHITECTURAL SHEET A1.04FA.
16. CONSTRUCT NEW AC AND BASE TO MATCH EXISTING AC AND BASE THICKNESSES.
17. CONSTRUCT NEW STANDARD SIDEWALK TYPE 2 PER KERN COUNTY DEVELOPMENT STANDARD PLATE NO. R-65. SEE DETAIL "RR" ON SHEET C5.03.
18. CONSTRUCT CONCRETE TRANSITION BETWEEN WALKWAY AND VEHICULAR CONCRETE SECTIONS PER DETAIL "K" ON SHEET C5.01.

EXISTING UTILITY COVER ADJUSTMENT NOTE

CONTRACTOR SHALL ADJUST ALL EXISTING UTILITY PULL BOXS, CLEANOUTS, VAULTS AND OTHER SURFACE LIDS/COVERS WITHIN THE PROJECT AREA TO FINISH SURFACE ELEVATION.

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0 20 40 60

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GRADING AND PAVING PLAN

Job No.
2990

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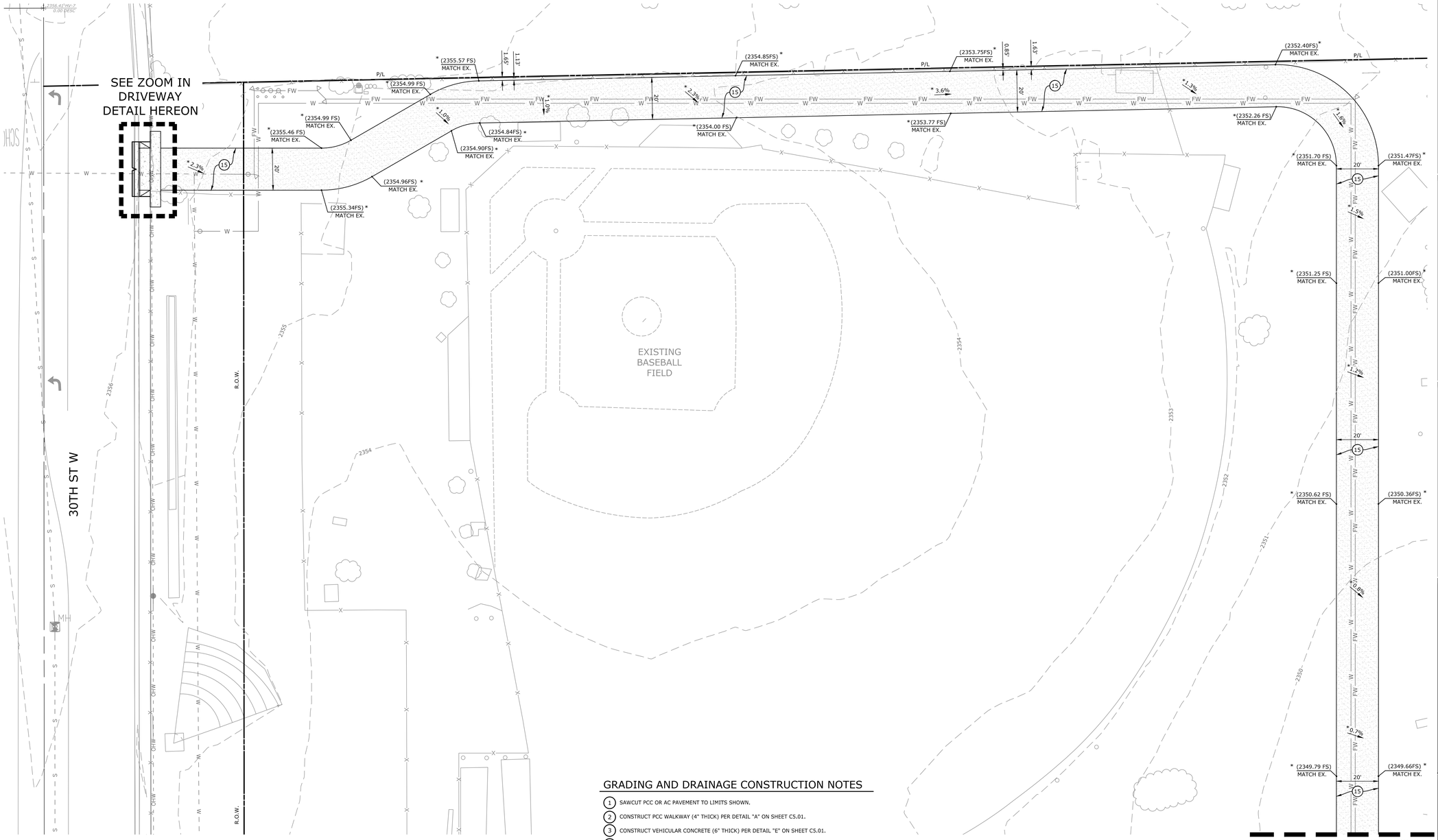

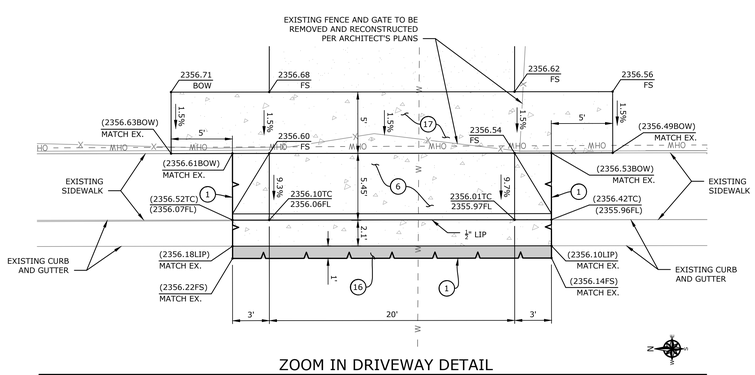

ZOOM IN DRIVEWAY DETAIL

SCALE: 1"=5'

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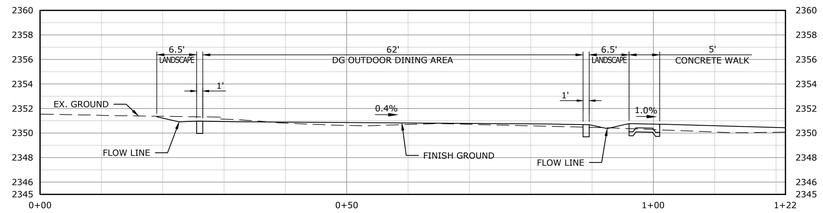
GRADING AND PAVING PLAN

Job No. 2990

Date 01.30.2023

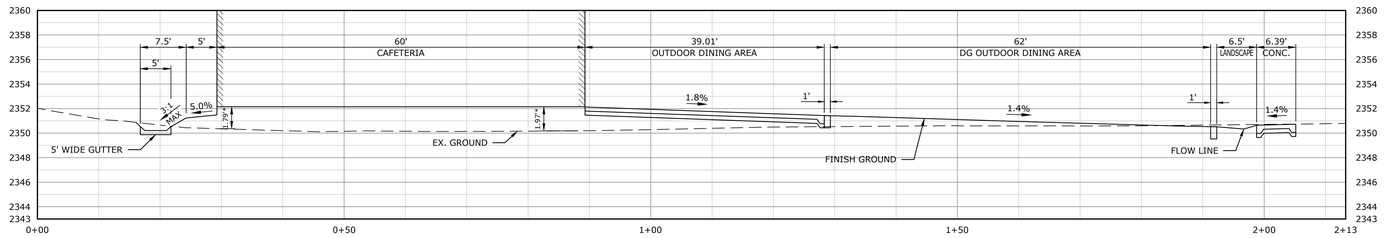
C3.02



SECTION "A"

SCALE: 1"=10' HORZ
1"=5' VERT

A



SECTION "B"

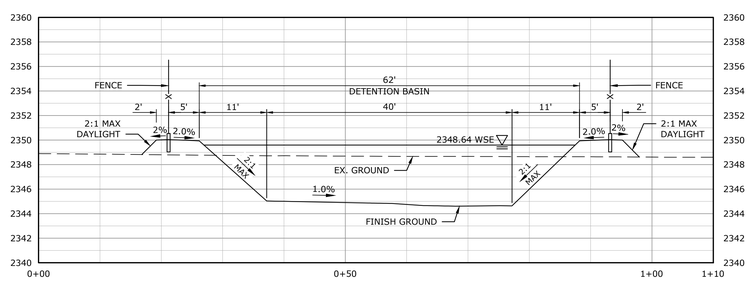
SCALE: 1"=10' HORZ
1"=5' VERT

B

SECTION "C"

SCALE: 1"=10' HORZ
1"=5' VERT

C



SECTION "D"

SCALE: 1"=10' HORZ
1"=5' VERT

D

*PROPOSED BLDG FF ELEVATION NOTE

THIS PROJECT IS LOCATED IN THE DASHED X FEMA ZONE CLASSIFIED AS "OTHER AREAS OF FLOOD HAZARD". PER KERN COUNTY FLOOD CONTROL REQUIREMENTS, NEW BUILDING FF ELEVATIONS MUST BE RAISED A MINIMUM OF 1.5' ABOVE ADJACENT EXISTING GRADE.

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Lancaster, California 93534
661.949.0771
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ARCHITECT

LICENSED ARCHITECT
JOSHUA M. MOODY
C-26053
Ren. Date 08/31/2023
STATE OF CALIFORNIA

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER
JOSTAL D. JENSON
NO 77454
CIVIL
STATE OF CALIFORNIA

ECG
Encompass Consultant Group
25115 AVE STANFORD, SUITE A320, SANTA CLARITA, CA 91355
PHONE: 661.600.9367 WEBSITE: WWW.ECGCIVIL.COM

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Revisions

No.	Date	Description

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

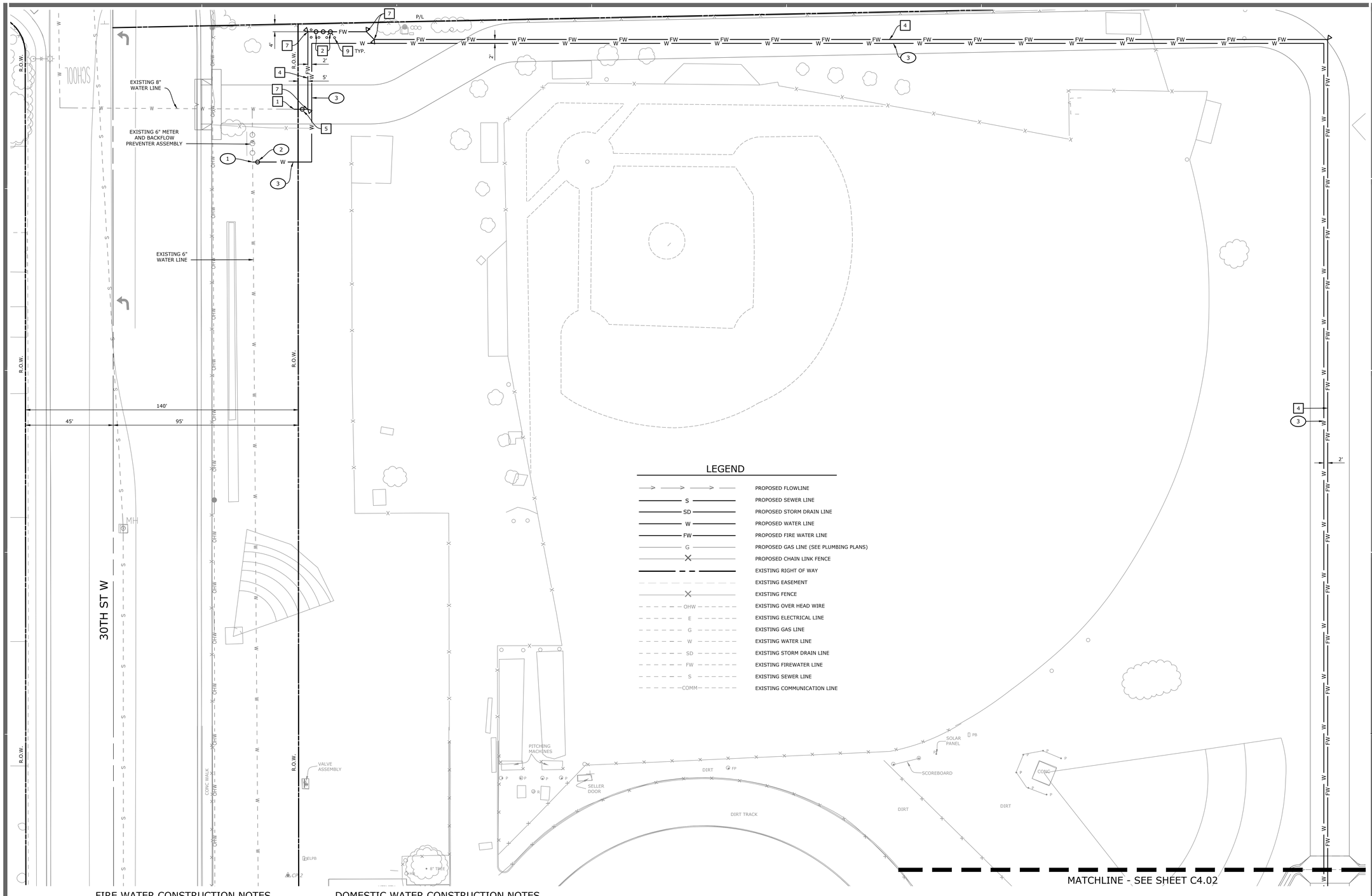
2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

SITE SECTIONS

Job No.
2990

Date
01.30.2023

C3.03



LEGEND

PROPOSED FLOWLINE	
S	PROPOSED SEWER LINE
SD	PROPOSED STORM DRAIN LINE
W	PROPOSED WATER LINE
FW	PROPOSED FIRE WATER LINE
G	PROPOSED GAS LINE (SEE PLUMBING PLANS)
	PROPOSED CHAIN LINK FENCE
	EXISTING RIGHT OF WAY
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W	EXISTING WATER LINE
SD	EXISTING STORM DRAIN LINE
FW	EXISTING FIREWATER LINE
S	EXISTING SEWER LINE
COMM	EXISTING COMMUNICATION LINE

FIRE WATER CONSTRUCTION NOTES

1. CONSTRUCT CONNECTION TO EXISTING 8" ROSAMOND COMMUNITY SERVICES DISTRICT WATER LINE PER ROSAMOND COMMUNITY SERVICES DISTRICT STANDARDS AND SPECIFICATIONS.
2. CONSTRUCT 8" DOUBLE CHECK DETECTOR ASSEMBLY WITH FIRE DEPARTMENT CONNECTION PER DETAIL "EE" ON SHEET C5.01.
3. CONSTRUCT 4" C900 CL 305 (DR 14) PVC WATER LINE PER DETAIL "CC " ON SHEET C5.01.
4. CONSTRUCT 8" C900 CL 305 (DR 14) PVC WATER LINE PER DETAIL "CC " ON SHEET C5.01.
5. CONSTRUCT GATE VALVE AND VALVE BOX PER ROSAMOND COMMUNITY SERVICES DISTRICT STANDARD W-9. SEE DETAIL "FF" ON SHEET C5.02.
6. CONSTRUCT CONNECTION TO BUILDING FIRE RISER. SEE DETAIL "SS" ON SHEET C5.03.
7. CONSTRUCT HORIZONTAL BEND AND CONCRETE THRUST BLOCK PER ROSAMOND COMMUNITY SERVICES DISTRICT STANDARD W-11. SEE DETAIL "GG" SHEET ON C5.02. ANGLE, SIZE, AND MATERIAL AS REQUIRED.
8. CONSTRUCT FIRE HYDRANT ASSEMBLY PER ROSAMOND COMMUNITY SERVICES DISTRICT STANDARD W-6. SEE DETAIL "OO" ON SHEET C5.03.
9. CONSTRUCT BOLLARD PER DETAIL "PP" ON SHEET C5.03. NUMBER AND SPACING AS SHOWN ON PLAN.
10. DIP WATER AND FIRE WATER LINES UNDER STORM DRAIN LINE WITH MINIMUM 12" CLEARANCE BETWEEN CROSSING PIPES.
11. CONSTRUCT PIPE UNDERCROSSING AT GRADE BEAM WITH CONCRETE ENCASEMENT PER DETAIL "TT" ON SHEET C5.03.

DOMESTIC WATER CONSTRUCTION NOTES

1. CONSTRUCT CONNECTION TO EXISTING 6" WATER LINE AS SHOWN.
2. CONSTRUCT GATE VALVE AND VALVE BOX PER ROSAMOND COMMUNITY SERVICES DISTRICT STANDARD W-9. SEE DETAIL "FF" ON SHEET C5.02.
3. CONSTRUCT 3" SCH 40 PVC WATER LINE WITH ALL NECESSARY FITTINGS PER DETAIL "CC" ON SHEET C5.01.
4. CONSTRUCT CONNECTION TO BUILDING WATER LINE. SEE PLUMBING PLAN FOR CONTINUATION.
5. CONSTRUCT 2.5" SCH 40 PVC WATER LINE WITH ALL NECESSARY FITTINGS PER DETAIL "BB" ON SHEET C5.01.
6. CONSTRUCT 2" SCH 40 PVC WATER LINE WITH ALL NECESSARY FITTINGS PER DETAIL "BB" ON SHEET C5.01.
7. CONSTRUCT VALVE AND VALVE BOX PER DETAIL "DD" ON SHEET C5.01.
8. CONSTRUCT CONNECTION TO SITE IRRIGATION SYSTEM. SEE IRRIGATION PLANS FOR CONTINUATION.

UTILITY CROSSING NOTE

1. WHERE A DOMESTIC WATER LINE CROSSES A FIRE WATER LINE THE PIPE TO PIPE CLEARANCE SHALL BE 6" MINIMUM. IF NECESSARY USE 45º ELBOWS ON THE DOMESTIC WATER LINE, 5' ON EITHER SIDE OF THE FIRE WATER LINE TO RAISE THE DOMESTIC WATER LINE TO ACHIEVE THE 6" MIN PIPE TO PIPE CLEARANCE AND 24" MINIMUM COVER OVER THE DOMESTIC WATER LINE.

GENERAL NOTE

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2. CONTRACTOR SHALL ADJUST ALL EXISTING UTILITY PULL BOXS, CLEANOUTS, VAULTS AND OTHER SURFACE LIDS/COVERS WITHIN THE PROJECT AREA TO FINISH SURFACE ELEVATION.

N W E S

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SOUTHERN KERN UNIFED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

2925 ROSAMOND BLVD.
ROSAMOND, CA 93560

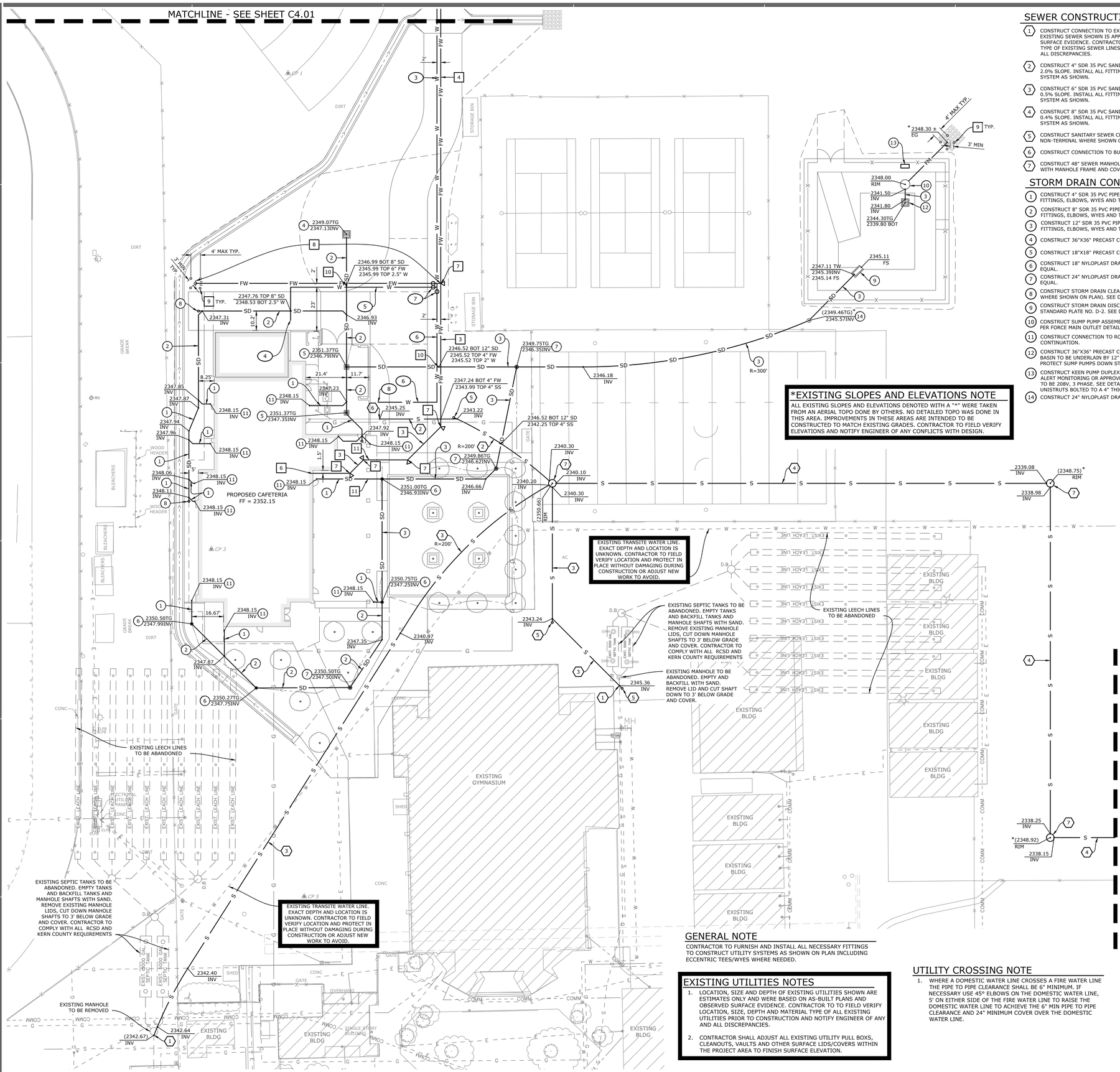
WET UTILITY PLAN

Job No. 2990

Date 01.30.2023

C4.01

MATCHLINE - SEE SHEET C4.01



*EXISTING SLOPES AND ELEVATIONS NOTE

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GENERAL NOTE

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2. CONTRACTOR SHALL ADJUST ALL EXISTING UTILITY PULL BOXS, CLEANOUTS, VAULTS AND OTHER SURFACE LIDS/COVERS WITHIN THE PROJECT AREA TO FINISH SURFACE ELEVATION.

SEWER CONSTRUCTION NOTES

1. CONSTRUCT CONNECTION TO EXISTING SEWER LINE AS SHOWN. LOCATION, SIZE AND DEPTH OF EXISTING SEWER SHOWN IS APPROXIMATE AND WAS BASED ON AS-BUILT PLANS AND OBSERVED SURFACE EVIDENCE. CONTRACTOR TO TO FIELD VERIFY LOCATION, SIZE, DEPTH AND MATERIAL TYPE OF EXISTING SEWER LINES PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY AND ALL DISCREPANCIES.
2. CONSTRUCT 4" SDR 35 PVC SANITARY SEWER LINE PER DETAIL "AA" ON SHEET C5.01. MINIMUM 2.0% SLOPE. INSTALL ALL FITTINGS, ELBOWS, WYES AND TEES NECESSARY TO CONSTRUCT SEWER SYSTEM AS SHOWN.
3. CONSTRUCT 6" SDR 35 PVC SANITARY SEWER LINE PER DETAIL "AA" ON SHEET C5.01. MINIMUM 0.5% SLOPE. INSTALL ALL FITTINGS, ELBOWS, WYES AND TEES NECESSARY TO CONSTRUCT SEWER SYSTEM AS SHOWN.
4. CONSTRUCT 8" SDR 35 PVC SANITARY SEWER LINE PER DETAIL "AA" ON SHEET C5.01. MINIMUM 0.4% SLOPE. INSTALL ALL FITTINGS, ELBOWS, WYES AND TEES NECESSARY TO CONSTRUCT SEWER SYSTEM AS SHOWN.
5. CONSTRUCT SANITARY SEWER CLEANOUT PER SPPWC STD PLAN 204-2 (MODIFIED TO BE NON-TERMINAL WHERE SHOWN ON PLAN). SEE DETAIL "HH" ON SHEET C5.02.
6. CONSTRUCT CONNECTION TO BUILDING SEWER LINE. SEE PLUMBING PLAN FOR CONTINUATION.
7. CONSTRUCT 48" SEWER MANHOLE PER ROSAMOND COMMUNITY SERVICES DISTRICT STANDARD S-7 WITH MANHOLE FRAME AND COVER PER STANDARD S-6. SEE DETAIL "II" ON SHEET C5.02.

STORM DRAIN CONSTRUCTION NOTES

1. CONSTRUCT 4" SDR 35 PVC PIPE PER GRAVITY PIPE TRENCH DETAIL "AA", ON SHEET C5.01. INSTALL ALL FITTINGS, ELBOWS, WYES AND TEES NECESSARY TO CONSTRUCT STORM DRAIN SYSTEM AS SHOWN.
2. CONSTRUCT 8" SDR 35 PVC PIPE PER GRAVITY PIPE TRENCH DETAIL "AA", ON SHEET C5.01. INSTALL ALL FITTINGS, ELBOWS, WYES AND TEES NECESSARY TO CONSTRUCT STORM DRAIN SYSTEM AS SHOWN.
3. CONSTRUCT 12" SDR 35 PVC PIPE PER GRAVITY PIPE TRENCH DETAIL "AA", ON SHEET C5.01. INSTALL ALL FITTINGS, ELBOWS, WYES AND TEES NECESSARY TO CONSTRUCT STORM DRAIN SYSTEM AS SHOWN.
4. CONSTRUCT 36"X36" PRECAST CONCRETE CATCH BASIN WITH TRAFFIC RATED GRATE.
5. CONSTRUCT 18"X18" PRECAST CONCRETE CATCH BASIN WITH TRAFFIC RATED GRATE.
6. CONSTRUCT 18" NYLOPLAST DRAIN BASIN 2818AG WITH 18" STANDARD GRATE 1899CGS OR APPROVED EQUAL.
7. CONSTRUCT 24" NYLOPLAST DRAIN BASIN 2824AG WITH 24" STANDARD GRATE 2499CGS OR APPROVED EQUAL.
8. CONSTRUCT STORM DRAIN CLEANOUT PER SPPWC STD PLAN 204-2 (MODIFIED TO BE NON-TERMINAL WHERE SHOWN ON PLAN). SEE DETAIL "HH" ON SHEET C5.02.
9. CONSTRUCT STORM DRAIN DISCHARGE STRUCTURE PER KERN COUNTY DRAINAGE DEVELOPMENT STANDARD PLATE NO. D-2. SEE DETAIL "KK" ON SHEET C5.02. H=24", W=24".
10. CONSTRUCT SUMP PUMP ASSEMBLY PER DETAILS ON SHEET C5.04. OUTLET FORCE MAIN TO THE SURFACE PER FORCE MAIN OUTLET DETAIL ON SHEET C5.04.
11. CONSTRUCT CONNECTION TO ROOF DRAIN OR DOWN SPOUT PER ARCHITECT'S PLAN. SEE ROOF PLANS FOR CONTINUATION.
12. CONSTRUCT 36"X36" PRECAST CONCRETE CATCH BASIN WITH OPEN BOTTOM AND STANDARD GRATE. CATCH BASIN TO BE UNDERLAIN BY 12" OF 3/4" CRUSHED ROCK. CATCH BASIN TO ACT AS DESILTING BASIN TO PROTECT SUMP PUMPS DOWN STREAM.
13. CONSTRUCT KEEN PUMP DUPLEX CONTROL PANEL OR APPROVED EQUAL WITH REMOTE MONITORING, STATION ALERT MONITORING OR APPROVE EQUAL. ENCLOSURE SHALL BE NEMA 4X FIBERGLASS. ELECTRICAL SERVICE TO BE 208V, 3 PHASE. SEE DETAILS ON SHEET C5.04. MOUNT CONTROL PANEL BETWEEN TWO VERTICAL UNISTRUTS BOLTED TO A 4" THICK CONCRETE PAD.
14. CONSTRUCT 24" NYLOPLAST DRAIN BASIN 2824AG WITH 24" SOLID COVER 2499CGC OR APPROVED EQUAL.

FIRE WATER CONSTRUCTION NOTES

1. CONSTRUCT CONNECTION TO EXISTING 8" ROSAMOND COMMUNITY SERVICES DISTRICT WATER LINE PER ROSAMOND COMMUNITY SERVICES DISTRICT STANDARDS AND SPECIFICATIONS.
2. CONSTRUCT 8" DOUBLE CHECK DETECTOR ASSEMBLY WITH FIRE DEPARTMENT CONNECTION PER DETAIL "EE" ON SHEET C5.01.
3. CONSTRUCT 4" C900 CL 305 (DR 14) PVC WATER LINE PER DETAIL "CC " ON SHEET C5.01.
4. CONSTRUCT 8" C900 CL 305 (DR 14) PVC WATER LINE PER DETAIL "CC " ON SHEET C5.01.
5. CONSTRUCT GATE VALVE AND VALVE BOX PER ROSAMOND COMMUNITY SERVICES DISTRICT STANDARD W-9. SEE DETAIL "FF" ON SHEET C5.02.
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7. CONSTRUCT HORIZONTAL BEND AND CONCRETE THRUST BLOCK PER ROSAMOND COMMUNITY SERVICES DISTRICT STANDARD W-11. SEE DETAIL "GG" SHEET ON C5.02. ANGLE, SIZE, AND MATERIAL AS REQUIRED.
8. CONSTRUCT FIRE HYDRANT ASSEMBLY PER ROSAMOND COMMUNITY SERVICES DISTRICT STANDARD W-6. SEE DETAIL "OO" ON SHEET C5.03.
9. CONSTRUCT BOLLARD PER DETAIL "PP" ON SHEET C5.03. NUMBER AND SPACING AS SHOWN ON PLAN.
10. DIP WATER AND FIRE WATER LINES UNDER STORM DRAIN LINE WITH MINIMUM 12" CLEARANCE BETWEEN CROSSING PIPES.
11. CONSTRUCT PIPE UNDERCROSSING AT GRADE BEAM WITH CONCRETE ENCASEMENT PER DETAIL "TT" ON SHEET C5.03.

DOMESTIC WATER CONSTRUCTION NOTES

1. CONSTRUCT CONNECTION TO EXISTING 6" WATER LINE AS SHOWN.
2. CONSTRUCT GATE VALVE AND VALVE BOX PER ROSAMOND COMMUNITY SERVICES DISTRICT STANDARD W-9. SEE DETAIL "FF" ON SHEET C5.02.
3. CONSTRUCT 3" SCH 40 PVC WATER LINE WITH ALL NECESSARY FITTINGS PER DETAIL "CC" ON SHEET C5.01.
4. CONSTRUCT CONNECTION TO BUILDING WATER LINE. SEE PLUMBING PLAN FOR CONTINUATION.
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LEGEND

- PROPOSED FLOWLINE
- PROPOSED SEWER LINE
- PROPOSED STORM DRAIN LINE
- PROPOSED WATER LINE
- PROPOSED FIRE WATER LINE
- PROPOSED GAS LINE (SEE PLUMBING PLANS)
- PROPOSED CHAIN LINK FENCE
- EXISTING RIGHT OF WAY
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- EXISTING FENCE
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UTILITY CROSSING NOTE

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N W E S

SCALE: 1"=20'

0 20 40 60

MATCHLINE - SEE SHEET C4.03

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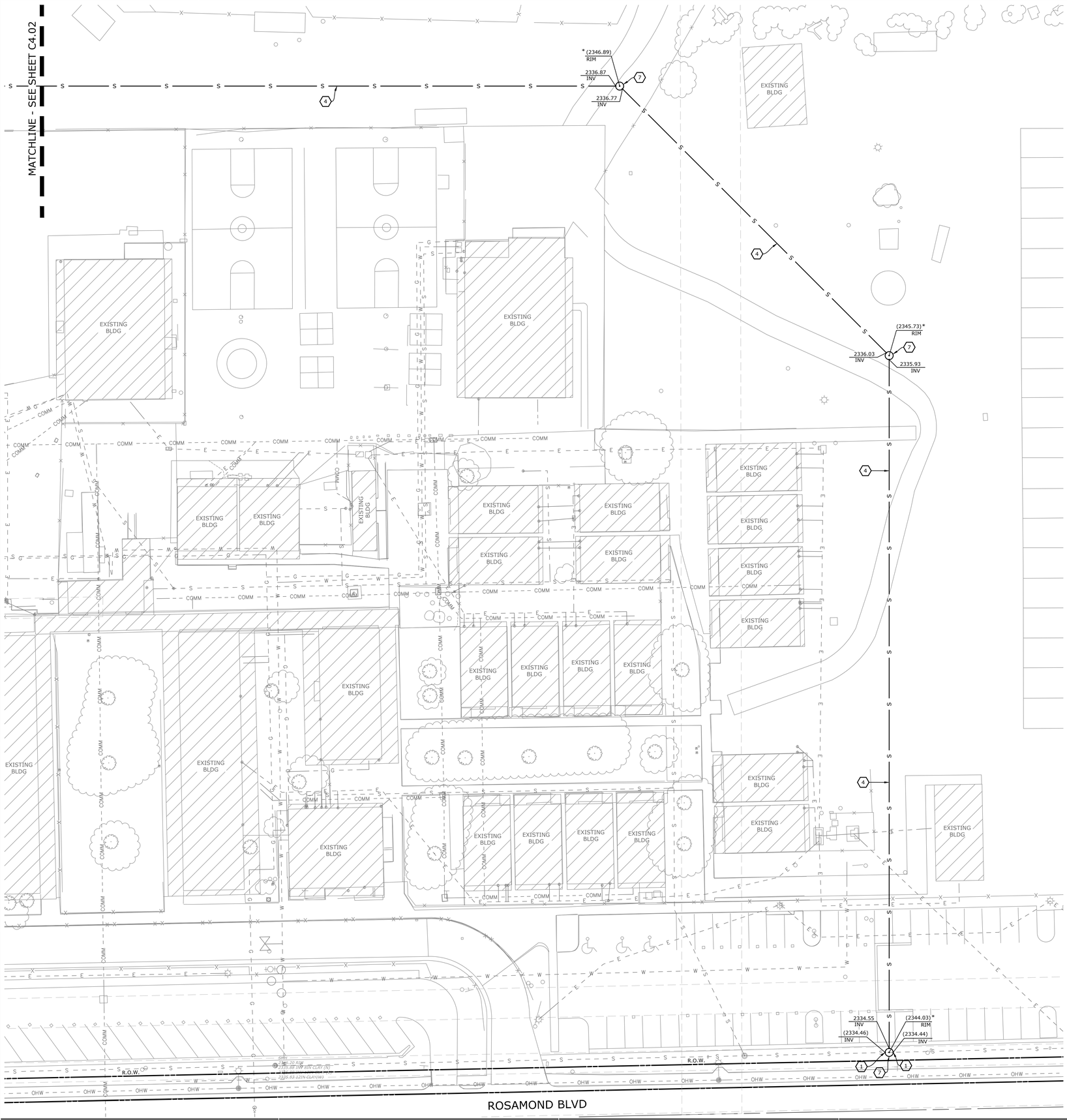
WET UTILITY PLAN

Job No.
2990

Date
01.30.2023

C4.02



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4. CONSTRUCT 8" SDR 35 PVC SANITARY SEWER LINE PER DETAIL "AA" ON SHEET C5.01. MINIMUM 0.4% SLOPE. INSTALL ALL FITTINGS, ELBOWS, WYES AND TEES NECESSARY TO CONSTRUCT SEWER SYSTEM AS SHOWN.
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An Employee Owned Corporation

ARCHITECT

LICENSED ARCHITECT SCOTT A. KNIGHT C-26053 Ren. Date 08/31/2023 STATE OF CALIFORNIA

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER JOSIAH D. JENSEN NO 77454 CIVIL STATE OF CALIFORNIA

ECG Encompass Consultant Group
25115 AVE STANFORD, SUITE A320, SANTA CLARITA, CA 91355
PHONE: 661.600.9367 WEBSITE: WWW.ECGCIVIL.COM

Drawn by

Checked by

Revisions

No.	Date	Description

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared for a specific site. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Flewelling & Moody.

SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

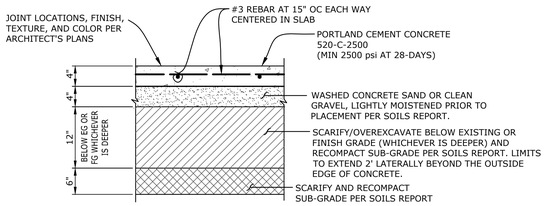
2925 ROSAMOND BLVD.
ROSAMOND, CA 93560

WET UTILITY PLAN

Job No.
2990

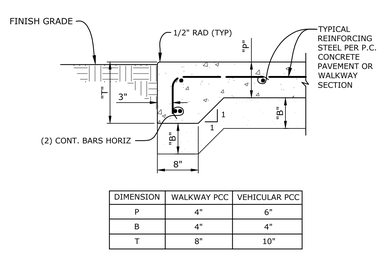
Date
01.30.2023

C4.03



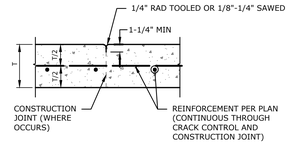
NOTES:
1. CONSTRUCT THICKENED EDGE AT WALKWAY PERIMETER PER DETAIL "B" THIS SHEET.
2. SAWCUT OR TOOLED CRACK CONTROL JOINTS PER DETAIL "C" THIS SHEET.
3. CONSTRUCT EXPANSION JOINTS PER DETAIL "D" THIS SHEET.
4. SECTION IS ESTIMATE ONLY. SOILS ENGINEER TO GIVE FINAL RECOMMENDATION BASED ON R-VALUE TEST RESULTS TAKEN PRIOR TO CONSTRUCTION.

PCC WALKWAY PAVEMENT SECTION (A)
SCALE: N.T.S.



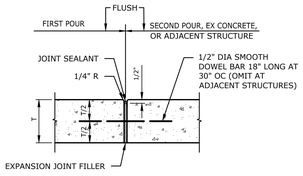
DIMENSION	WALKWAY PCC	VEHICULAR PCC
P	4"	6"
B	4"	4"
T	8"	10"

PCC PAVEMENT OR WALKWAY THICKENED EDGE (B)
SCALE: N.T.S.



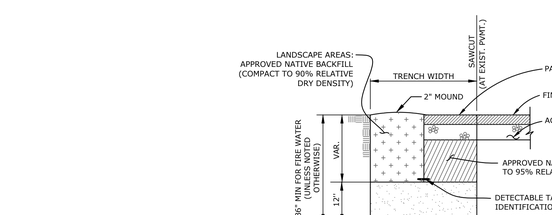
NOTES:
1. SEE SPECIFICATIONS FOR TYPE OF JOINT SEALANT.
2. CONSTRUCTION JOINTS SHALL ONLY BE LOCATED WHERE A CRACK CONTROL JOINT OR OTHER JOINT WOULD OTHERWISE HAVE BEEN REQUIRED.
3. SEE PLAN FOR THICKNESS, T.
4. FOR CRACK CONTROL JOINTS LOCATIONS, SEE ARCH. PLANS.
5. CRACK CONTROL JOINTS TO BE SPACED AT 12' MAX O.C. E.W.

CONSTRUCTION/CRACK CONTROL JOINT (C)
SCALE: N.T.S.



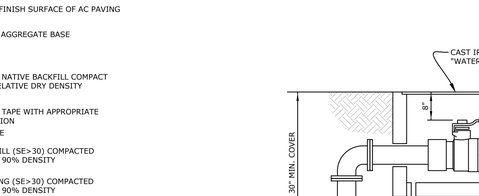
NOTES:
1. SEE SPECIFICATIONS FOR TYPE OF JOINT SEALANT & EXPANSION JOINT FILLER.
2. USE SMOOTH BARS FOR DOWELS COATED TO PREVENT BOND, GREASE ONE END PRIOR TO SECOND POUR.
3. SEE PLAN FOR THICKNESS, T.
4. PROVIDE ADEQUATE SUPPORT FOR DOWELS TO ENSURE THEY REMAIN LEVEL WITH FINISH SURFACE.
5. STOP SLAB REINFORCING AT EXPANSION JOINTS.
6. EXPANSION JOINTS TO BE SPACED AT 40' MAX E.W. AND CONSTRUCTED AT ADJACENT STRUCTURES.

EXPANSION JOINT (D)
SCALE: N.T.S.

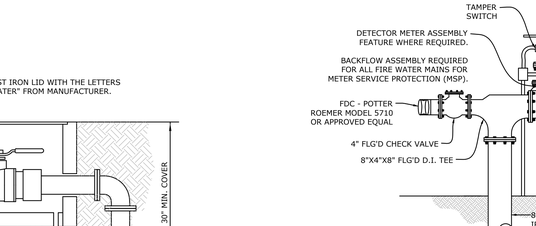


NOTES:
1. CONSTRUCT THICKENED EDGE AT WALKWAY PERIMETER PER DETAIL "B" THIS SHEET.
2. SAWCUT OR TOOLED CRACK CONTROL JOINTS PER DETAIL "C" THIS SHEET.
3. CONSTRUCT EXPANSION JOINTS PER DETAIL "D" THIS SHEET.
4. SECTION IS ESTIMATE ONLY. SOILS ENGINEER TO GIVE FINAL RECOMMENDATION BASED ON R-VALUE TEST RESULTS TAKEN PRIOR TO CONSTRUCTION.

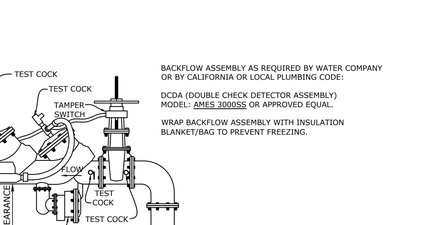
PCC VEHICULAR PAVEMENT SECTION (E)
SCALE: N.T.S.



CONCRETE GUTTER - 4" DEEP (F)
SCALE: N.T.S.

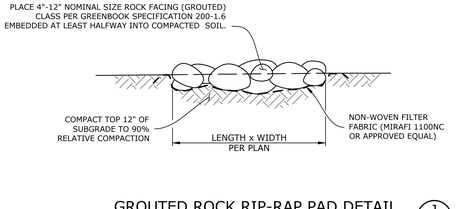


CONCRETE GUTTER - VARIABLE DEPTH (G)
SCALE: N.T.S.

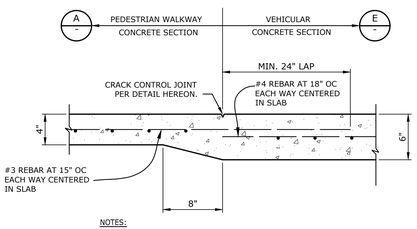


NOTES:
1. CONCRETE SHALL BE CLASS 560-C-4000.
2. EXPOSED EDGES SHALL HAVE A 1/2" TOOLED RADIUS.
3. SUBGRADE SOILS SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY.
4. INSTALL WEAKENED PLANE JOINTS AT 12' MAX SPACING.
5. INSTALL EXPANSION JOINTS AT 24' MAX. SPACING.

CONCRETE RIBBON GUTTER (H)
SCALE: N.T.S.

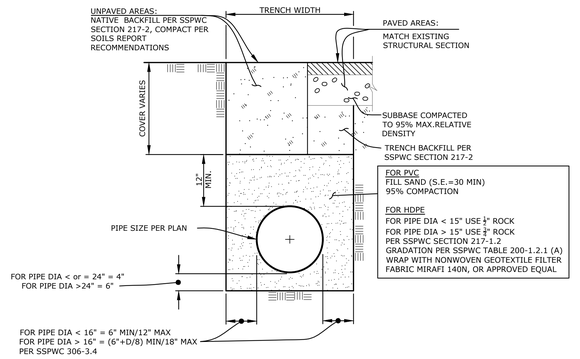


GROUTED ROCK RIP-RAP PAD DETAIL (J)
SCALE: N.T.S.

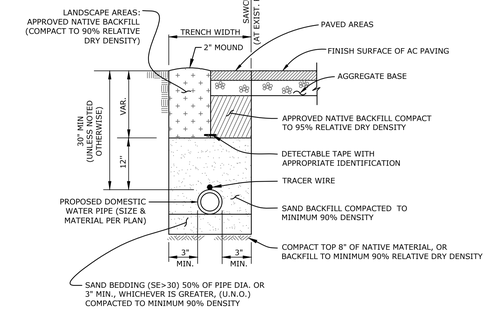


NOTES:
1. CONCRETE SECTIONS TO BE POURED MONOLITHICALLY

CONCRETE TRANSITION (K)
SCALE: N.T.S.

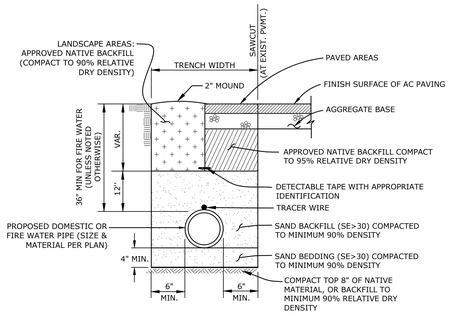


TYPICAL PLASTIC GRAVITY PIPE TRENCH (AA)
SCALE: N.T.S.



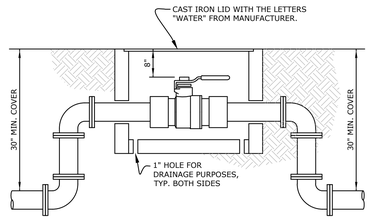
NOTE: CONTRACTOR SHALL VERIFY EXISTING UTILITIES BY POTHOLING PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY CONFLICTS OR DISCREPANCIES.

TYPICAL DOMESTIC WATER TRENCH SECTION (PIPE DIAMETER SMALLER THAN 3") (BB)
SCALE: N.T.S.

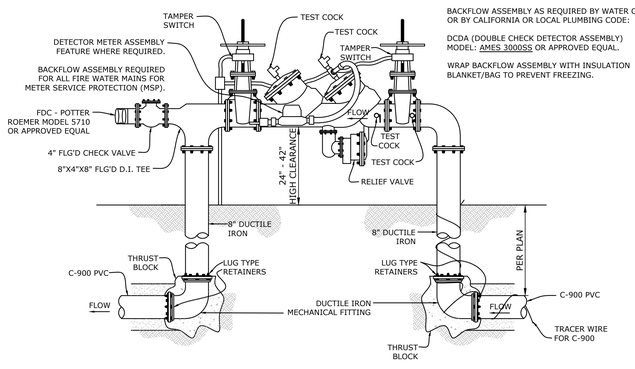


NOTE: CONTRACTOR SHALL VERIFY EXISTING UTILITIES BY POTHOLING PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY CONFLICTS OR DISCREPANCIES.

TYPICAL PVC WATER OR FIRE WATER TRENCH SECTION (PIPE DIAMETER 3" OR LARGER) (CC)
SCALE: N.T.S.



VALVE & VALVE BOX FOR DOMESTIC WATER LINES SMALLER THAN 3" (DD)
SCALE: N.T.S.



BACKFLOW ASSEMBLY AS REQUIRED BY WATER COMPANY OR BY CALIFORNIA OR LOCAL PLUMBING CODE:

DCDA (DOUBLE CHECK DETECTOR ASSEMBLY) MODEL: AMES 3000SS OR APPROVED EQUAL.

WRAP BACKFLOW ASSEMBLY WITH INSULATION BLANKET/BAG TO PREVENT FREEZING.

8" DOUBLE CHECK DETECTOR ASSEMBLY (EE)
SCALE: N.T.S.

Know what's below. Call before you dig.

AGENCY

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122536 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/24/2023

FLEWELLING & MOODY
architecture planning interiors

HEADQUARTERS OFFICE:
815 Colorado Blvd, Suite 200
Los Angeles, CA 90041
323.543.8300
E-Mail: fm-pasadena@flewelling-moody.com

ANTELOPE VALLEY OFFICE:
1035 West Lancaster Boulevard
Lancaster, California 93534
661.949.0771
E-Mail: fm-lancaster@flewelling-moody.com

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ARCHITECT

REGISTERED ARCHITECT JOSEPH M. FLEWELLING C-26053 Ren. Date 08/31/2023 STATE OF CALIFORNIA

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER JOSTAN D. JENSON NO 77454 CIVIL STATE OF CALIFORNIA

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SOUTHERN KERN UNIFED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

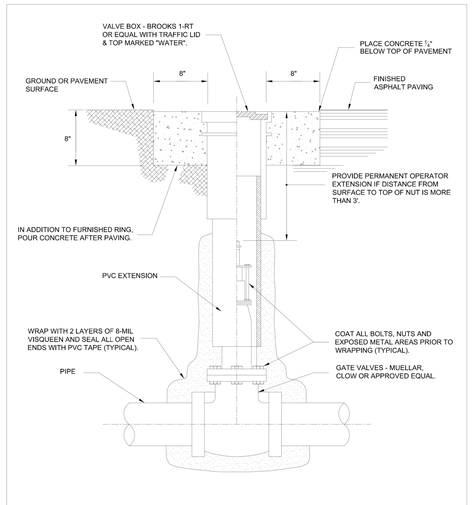
2925 ROSAMOND BLVD.
ROSAMOND, CA 93560

DETAILS

Job No.
2990

Date
01.30.2023

C5.01



SECTION - ELEVATION

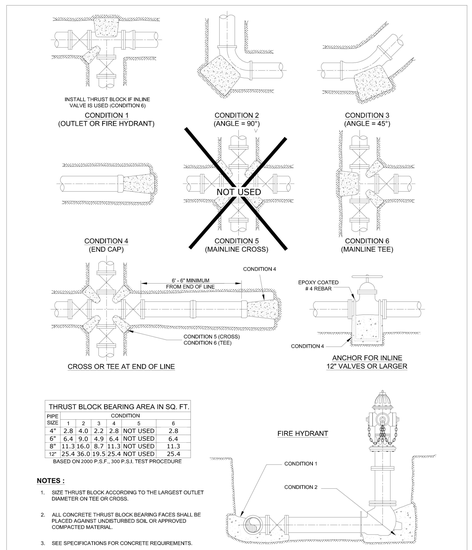
NOTE: PROVIDE ADJUSTABLE VALVE BOXES FOR ALL VALVES 4" OR LARGER.

Rosamond Community Services District	STANDARD SPECIFICATIONS AND DRAWING DETAILS	
SHEET NO. **W-9**	**VALVE BOX ASSEMBLY**	DATE DRAWN **11/07**
R.C.S.D. ENGINEERING DEPARTMENT	REVISION NO.:002-030BB	DRAWN BY : EVAN R. CRABTREE / APPROVED BY:

GATE VALVE AND VALVE BOX

SCALE: N.T.S.

FF



THRUST BLOCK BEARING AREA IN SQ. FT.						
PIPE SIZE	CONDITION 1	2	3	4	5	6
4"	2.8	4.0	2.2	2.8	NOT USED	2.8
6"	6.4	9.0	4.9	6.4	NOT USED	6.4
8"	11.3	16.0	8.7	11.3	NOT USED	11.3
12"	25.4	36.0	19.5	25.4	NOT USED	25.4

BASED ON 200 P.S.F., 300 P.S.I. TEST PROCEDURE

NOTES:

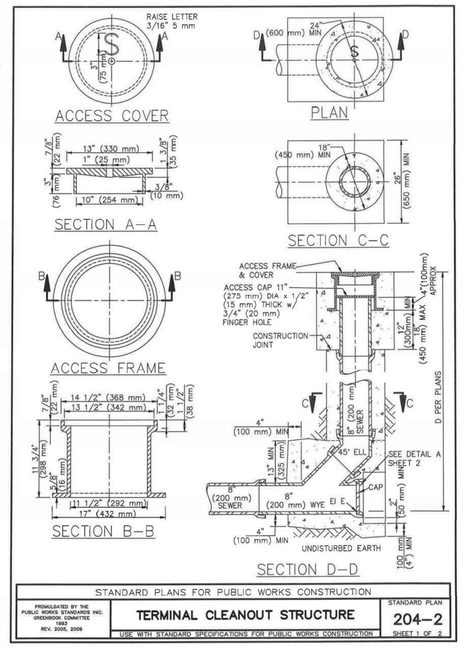
1. SIZE THRUST BLOCK ACCORDING TO THE LARGEST OUTLET DIAMETER ON TEE OR CROSS.
2. ALL CONCRETE THRUST BLOCK BEARING FACES SHALL BE PLACED AGAINST UNDISTURBED SOIL OR APPROVED COMPACTED MATERIAL.
3. SEE SPECIFICATIONS FOR CONCRETE REQUIREMENTS.

Rosamond Community Services District	STANDARD SPECIFICATIONS AND DRAWING DETAILS	
SHEET NO. **W-11**	**TYPICAL THRUST BLOCK DETAILS**	DATE DRAWN **11/07**
R.C.S.D. ENGINEERING DEPARTMENT	REVISION NO.:002-030BB	DRAWN BY : EVAN R. CRABTREE / APPROVED BY:

THRUST BLOCK

SCALE: N.T.S.

GG



STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION

PROMULGATED BY THE PUBLIC WORKS STANDARDS, INC. GREENBOOK COMMITTEE 1983 REV. 2005, 2009

TERMINAL CLEANOUT STRUCTURE

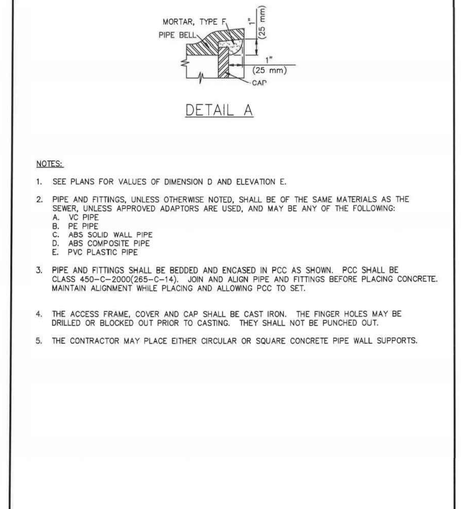
USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION

STANDARD PLAN **204–2** SHEET 1 OF 2

SEWER CLEANOUT

SCALE: N.T.S.

HH



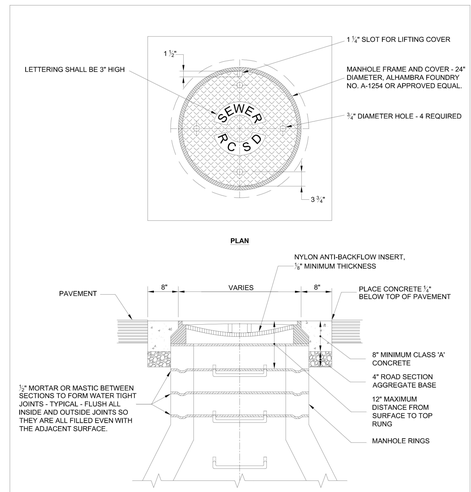
NOTES:

1. SEE PLANS FOR VALUES OF DIMENSION D AND ELEVATION E.
2. PIPE AND FITTINGS, UNLESS OTHERWISE NOTED, SHALL BE OF THE SAME MATERIALS AS THE SEWER, UNLESS APPROVED ADAPTORS ARE USED, AND MAY BE ANY OF THE FOLLOWING:
   A. VC PIPE
   B. PE PIPE
   C. ABS SOLID WALL PIPE
   D. ABS COMPOSITE PIPE
   E. PVC PLASTIC PIPE
3. PIPE AND FITTINGS SHALL BE BEDDED AND ENCASED IN PCC AS SHOWN. PCC SHALL BE CLASS 450–C–2000(265–C–14). JOIN AND ALIGN PIPE AND FITTINGS BEFORE PLACING CONCRETE. MAINTAIN ALIGNMENT WHILE PLACING AND ALLOWING PCC TO SET.
4. THE ACCESS FRAME, COVER AND CAP SHALL BE CAST IRON. THE FINGER HOLES MAY BE DRILLED OR BLOCKED OUT PRIOR TO CASTING. THEY SHALL NOT BE PUNCHED OUT.
5. THE CONTRACTOR MAY PLACE EITHER CIRCULAR OR SQUARE CONCRETE PIPE WALL SUPPORTS.

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION

TERMINAL CLEANOUT STRUCTURE

STANDARD PLAN **204–2** SHEET 2 OF 2

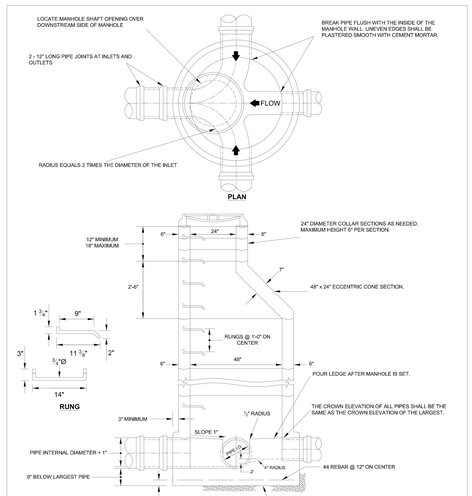


STANDARD SPECIFICATIONS AND DRAWING DETAILS	*Rosamond Community Services District*	
DATE DRAWN **11/07**	**MANHOLE FRAME AND COVER**	SHEET NO. **S-6**
R.C.S.D. ENGINEERING DEPARTMENT	REVISION NO.:002-030BB / DRAWN BY : EVAN R. CRABTREE / APPROVED BY:	

SEWER MANHOLE DETAILS

SCALE: N.T.S.

II



NOTES:

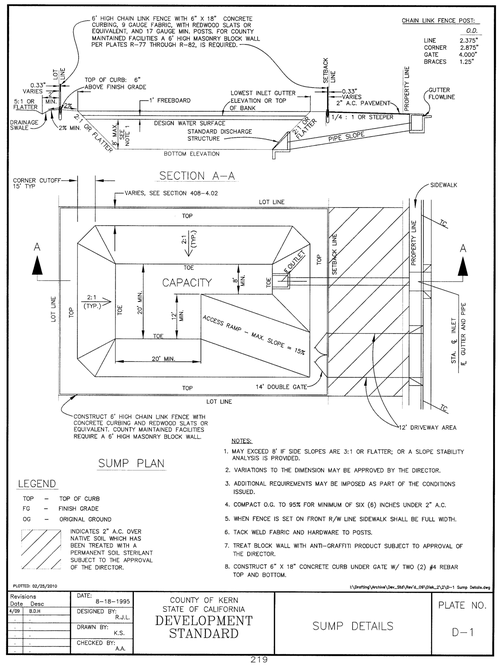
1. MANHOLE RINGS CONES AND SECTIONS SHALL BE AS MANUFACTURED BY ASSOCIATED CONCRETE PRODUCTS OR APPROVED EQUAL.
2. MORTOR SHALL BE: 1 PART CEMENT TO 4 PARTS SAND.
3. STUBOUTS SHALL BE 4'.

Rosamond Community Services District	STANDARD SPECIFICATIONS AND DRAWING DETAILS	
SHEET NO. **S-7**	**48" INTERNAL DIAMETER STANDARD MANHOLE**	DATE DRAWN **11/07**
R.C.S.D. ENGINEERING DEPARTMENT	REVISION NO.:002-030BB / DRAWN BY : EVAN R. CRABTREE / APPROVED BY:	

SEWER MANHOLE DETAILS

SCALE: N.T.S.

II



LEGEND

TOP – TOP OF CURB
FG – FINISH GRADE
OG – ORIGINAL GROUND

INDICATES 2" A.C. OVER NATIVE SOIL WHICH HAS BEEN TREATED WITH A PERMANENT SOIL STERILANT SUBJECT TO THE APPROVAL OF THE DIRECTOR.

NOTES:

1. MAY EXCEED 8' IF SIDE SLOPES ARE 3:1 OR FLATTER; OR A SLOPE STABILITY ANALYSIS IS PROVIDED.
2. VARIATIONS TO THE DIMENSION MAY BE APPROVED BY THE DIRECTOR.
3. ADDITIONAL REQUIREMENTS MAY BE IMPOSED AS PART OF THE CONDITIONS ISSUED.
4. COMPACT O.G. TO 95% FOR MINIMUM OF SIX (6) INCHES UNDER 2" A.C.
5. WHEN FENCE IS SET ON FRONT R/W LINE SIDEWALK SHALL BE FULL WIDTH.
6. TACK WELD FABRIC AND HARDWARE TO POSTS.
7. TREAT BLOCK WALL WITH ANTI–GRAFFITI PRODUCT SUBJECT TO APPROVAL OF THE DIRECTOR.
8. CONSTRUCT 6" X 18" CONCRETE CURB UNDER GATE W/ TWO (2) #4 REBAR TOP AND BOTTOM.

PLOTTED: 02/28/2013 — I:\Drafting\Archive\Dev_Std\Fee's_Off\Dev_Std_Off\Dwg_Z\Z-3 Sump Details.dwg

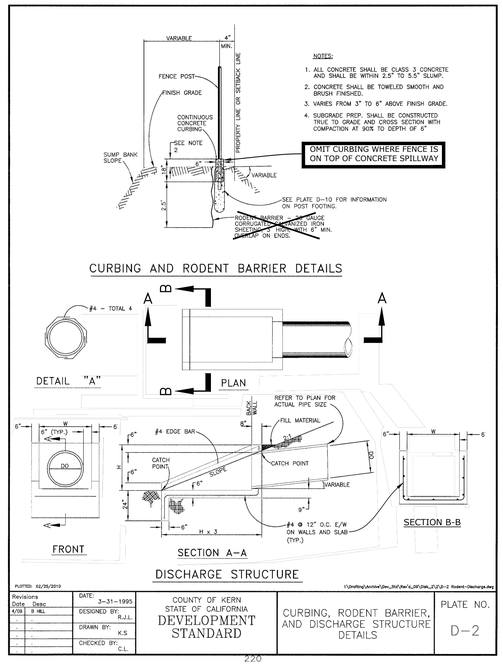
Revisions Date / Desc	DATE: 8–18–1995	COUNTY OF KERN STATE OF CALIFORNIA DEVELOPMENT STANDARD	SUMP DETAILS	PLATE NO. D–1
K/W / B.H.	DESIGNED BY: R.J.L.			
- / -	DRAWN BY: K.S.			
- / -	CHECKED BY: A.A.			

219

DETENTION BASIN DETAIL

SCALE: N.T.S.

JJ



PLOTTED: 02/28/2013 — I:\Drafting\Archive\Dev_Std\Fee's_Off\Dev_Std_Off\Dwg_Z\Z-2 Rodent-Discharge.dwg

Revisions Date / Desc	DATE: 3–31–1995	COUNTY OF KERN STATE OF CALIFORNIA DEVELOPMENT STANDARD	CURBING, RODENT BARRIER, AND DISCHARGE STRUCTURE DETAILS	PLATE NO. D–2
K/W / B.H&L	DESIGNED BY: R.J.L.			
- / -	DRAWN BY: K.S.			
- / -	CHECKED BY: C.L.			

220

CURBING, RODENT BARRIER AND DISCHARGE STRUCTURE DETAILS

SCALE: N.T.S.

KK

811 Know what's below. Call before you dig.

AGENCY

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122536 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/24/2023

FLEWELLING & MOODY
architecture planning interiors

HEADQUARTERS OFFICE:
815 Colorado Blvd, Suite 200
Los Angeles, CA 90041
323.543.8300
E-Mail: fm-pasadena@flewelling-moody.com

ANTELOPE VALLEY OFFICE:
1035 West Lancaster Boulevard
Lancaster, California 93534
661.949.0771
E-Mail: fm-lancaster@flewelling-moody.com

An Employee Owned Corporation

ARCHITECT

LICENSED ARCHITECT JOSEPH M. MOODY C–26053 Ren. Date 08/31/2023 STATE OF CALIFORNIA

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER JONATHAN D. JENSEN NO 77454 CIVIL STATE OF CALIFORNIA

ECG Encompass Consultant Group
25115 AVE STANFORD, SUITE #320, SANTA CLARITA, CA 91355
PHONE: 661.600.9367 WEBSITE: WWW.ECGCIVIL.COM

Drawn by

Checked by

Revisions

No.	Date	Description

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

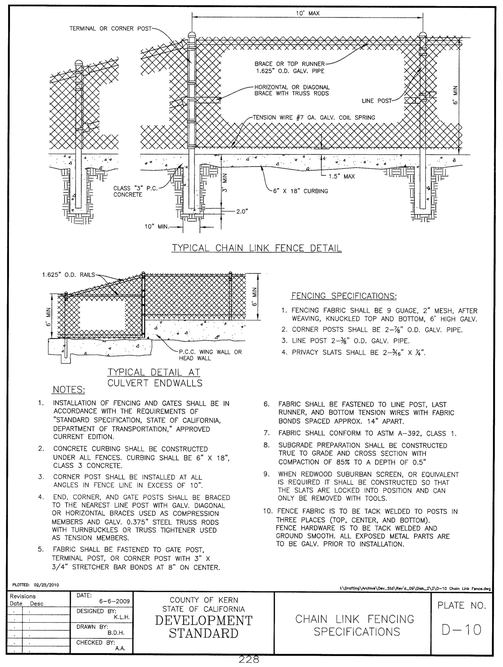
2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

DETAILS

Job No. 2990

Date 01.30.2023

C5.02



FENCING SPECIFICATIONS:

1. FENCING FABRIC SHALL BE 9 GUAGE, 2" MESH, AFTER WEAVING, KNUCKLED TOP AND BOTTOM, 6' HIGH GALV.
2. CORNER POSTS SHALL BE 2-⅜" O.D. GALV. PIPE.
3. LINE POST 2-⅜" O.D. GALV. PIPE.
4. PRIVACY SLATS SHALL BE 2-¾" X ¼".

NOTES:

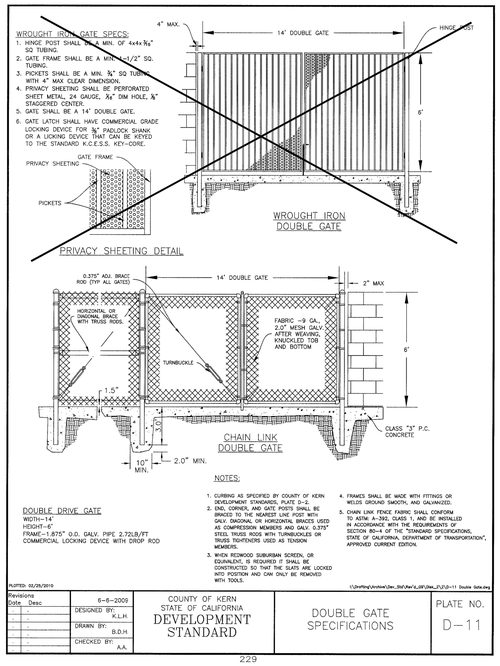
1. INSTALLATION OF FENCING AND GATES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF "STANDARD SPECIFICATION, STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION," APPROVED CURRENT EDITION.
2. CONCRETE CURBING SHALL BE CONSTRUCTED UNDER ALL FENCES. CURBING SHALL BE 6" X 18", CLASS 3 CONCRETE.
3. CORNER POST SHALL BE INSTALLED AT ALL ANGLES IN FENCE LINE IN EXCESS OF 10°.
4. END, CORNER, AND GATE POSTS SHALL BE BRACED TO THE NEAREST LINE POST WITH GALV. DIAGONAL OR HORIZONTAL BRACES USED AS COMPRESSION MEMBERS AND GALV. 0.375" STEEL TRUSS RODS WITH TURNBUCKLES OR TRUSS TIGHTENER USED AS TENSION MEMBERS.
5. FABRIC SHALL BE FASTENED TO GATE POST, TERMINAL POST, OR CORNER POST WITH 3" X 3/4" STRETCHER BAR BONDS AT 8" ON CENTER.
6. FABRIC SHALL BE FASTENED TO LINE POST, LAST RUNNER, AND BOTTOM TENSION WIRES WITH FABRIC BONDS SPACED APPROX. 14" APART.
7. FABRIC SHALL CONFORM TO ASTM A-392, CLASS 1.
8. SUBGRADE PREPARATION SHALL BE CONSTRUCTED TRUE TO GRADE AND CROSS SECTION WITH COMPACTION OF 85% TO A DEPTH OF 0.5"
9. WHEN REDWOOD SUBURBAN SCREEN, OR EQUIVALENT IS REQUIRED IT SHALL BE CONSTRUCTED SO THAT THE SLATS ARE LOCKED INTO POSITION AND CAN ONLY BE REMOVED WITH TOOLS.
10. FENCE FABRIC IS TO BE TACK WELDED TO POSTS IN THREE PLACES (TOP, CENTER, AND BOTTOM). FENCE HARDWARE IS TO BE TACK WELDED AND GROUND SMOOTH. ALL EXPOSED METAL PARTS ARE TO BE GALV. PRIOR TO INSTALLATION.

PLOTTED: 02/25/2010 — I:\Drafting\Archive\Dev_Std\Rev'a_08\Dev_01\D-10 Chain Link Fence.dwg

Revisions Date	Desc	DATE: 6-6-2009	COUNTY OF KERN STATE OF CALIFORNIA DEVELOPMENT STANDARD	CHAIN LINK FENCING SPECIFICATIONS	PLATE NO. D-10
		DESIGNED BY: K.L.H.			
		DRAWN BY: B.D.H.			
		CHECKED BY: A.A.			

CHAIN LINK FENCING DETAIL

SCALE: N.T.S. — LL



DOUBLE DRIVE GATE
WIDTH-14'
HEIGHT-6'
FRAME-1.875" O.D. GALV. PIPE 2.72LB/FT
COMMERCIAL LOCKING DEVICE WITH DROP ROD

NOTES:

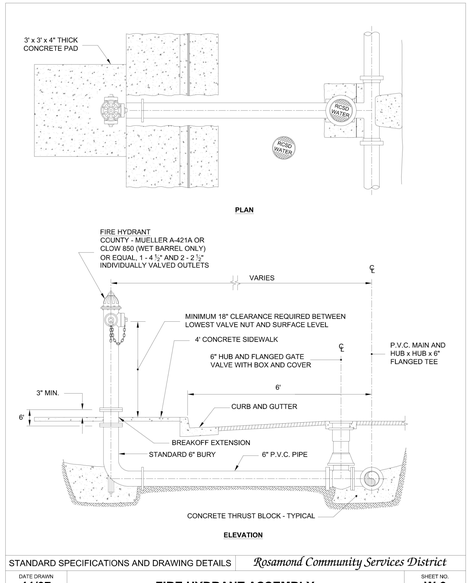
1. CURBING AS SPECIFIED BY COUNTY OF KERN DEVELOPMENT STANDARDS, PLATE D-2.
2. END, CORNER, AND GATE POSTS SHALL BE BRACED TO THE NEAREST LINE POST WITH GALV. DIAGONAL OR HORIZONTAL BRACES USED AS COMPRESSION MEMBERS AND GALV. 0.375" STEEL TRUSS RODS WITH TURNBUCKLES OR TRUSS TIGHTENERS USED AS TENSION MEMBERS.
3. WHEN REDWOOD SUBURBAN SCREEN, OR EQUIVALENT, IS REQUIRED IT SHALL BE CONSTRUCTED SO THAT THE SLATS ARE LOCKED INTO POSITION AND CAN ONLY BE REMOVED WITH TOOLS.
4. FRAMES SHALL BE MADE WITH FITTINGS OR WELDS GROUND SMOOTH, AND GALVANIZED.
5. CHAIN LINK FENCE FABRIC SHALL CONFORM TO ASTM A-392, CLASS 1, AND BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 80-4 OF THE "STANDARD SPECIFICATIONS, STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION", APPROVED CURRENT EDITION.

PLOTTED: 02/25/2010 — I:\Drafting\Archive\Dev_Std\Rev'a_08\Dev_01\D-11 Double Gate.dwg

Revisions Date	Desc	DATE: 6-6-2009	COUNTY OF KERN STATE OF CALIFORNIA DEVELOPMENT STANDARD	DOUBLE GATE SPECIFICATIONS	PLATE NO. D-11
		DESIGNED BY: K.L.H.			
		DRAWN BY: B.D.H.			
		CHECKED BY: A.A.			

DOUBLE GATE DETAIL

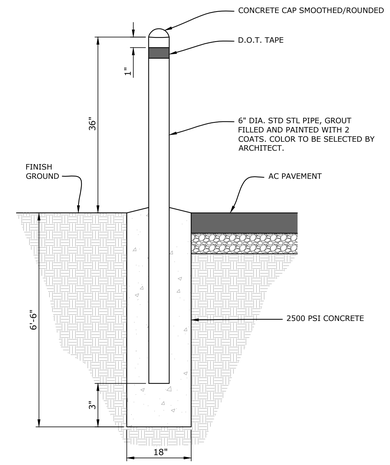
SCALE: N.T.S. — MM



STANDARD SPECIFICATIONS AND DRAWING DETAILS	Rosamond Community Services District	
DATE DRAWN: 11/07	FIRE HYDRANT ASSEMBLY	SHEET NO. W-6
R.C.S.D. ENGINEERING DEPARTMENT	REVISION NO.:002-030RB	DRAWN BY:: EVAN R. CRABTREE — APPROVED BY::

FIRE HYDRANT ASSEMBLY DETAIL

SCALE: N.T.S. — OO

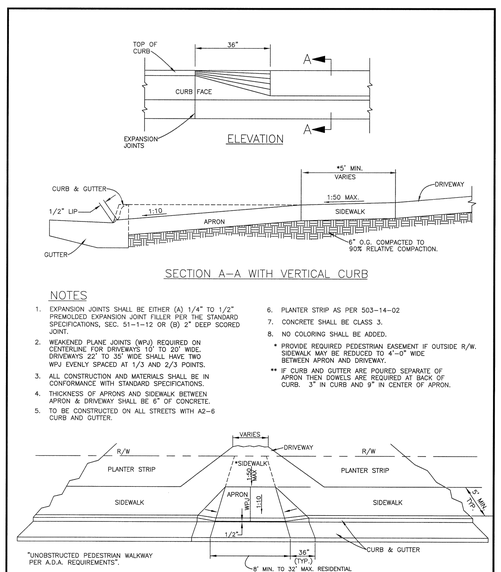


NOTES:

1. BOLLARDS SHALL BE SPACED AT 4' MAX ON CENTER.
2. BOLLARDS SHALL BE LOCATED NOT LESS THAN 3' FROM THE PROTECTED OBJECT.

BOLLARD DETAIL

SCALE: N.T.S. — PP



NOTES

1. EXPANSION JOINTS SHALL BE EITHER (A) 1/4" TO 1/2" PREMOLDED EXPANSION JOINT FILLER PER THE STANDARD SPECIFICATIONS, SEC. 51-1-12 OR (B) 2" DEEP SCORED JOINT.
2. WEAKENED PLANE JOINTS (WPJ) REQUIRED ON CENTERLINE FOR DRIVEWAYS 10' TO 20' WIDE. DRIVEWAYS 22' TO 35' WIDE SHALL HAVE TWO WPJ EVENLY SPACED AT 1/3 AND 2/3 POINTS.
3. ALL CONSTRUCTION AND MATERIALS SHALL BE IN CONFORMANCE WITH STANDARD SPECIFICATIONS.
4. THICKNESS OF APRONS AND SIDEWALK BETWEEN APRON & DRIVEWAY SHALL BE 6" OF CONCRETE.
5. TO BE CONSTRUCTED ON ALL STREETS WITH A2-6 CURB AND GUTTER.
6. PLANTER STRIP AS PER 503-14-02
7. CONCRETE SHALL BE CLASS 3.
8. NO COLORING SHALL BE ADDED.

* PROVIDE REQUIRED PEDESTRIAN EASEMENT IF OUTSIDE R/W. SIDEWALK MAY BE REDUCED TO 4'-0" WIDE BETWEEN APRON AND DRIVEWAY.

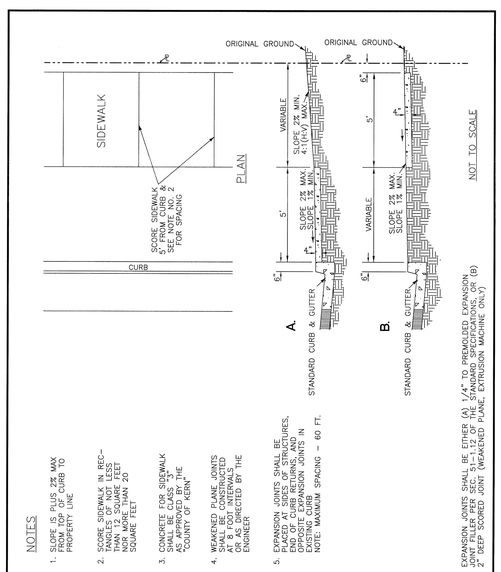
** IF CURB AND GUTTER ARE POURED SEPARATE OF APRON THEN DOWELS ARE REQUIRED AT BACK OF CURB. 3" IN CURB AND 9" IN CENTER OF APRON.

PLOTTED: 02/25/2010 — I:\Drafting\Archive\Urb_Std\Rev'a_08\Urb_01\R-54.dwg

Revisions Date	Desc	DATE: 8-12-2009	COUNTY OF KERN STATE OF CALIFORNIA DEVELOPMENT STANDARD	SIDEWALK DRIVEWAY DETAIL TYPE "B" RESIDENCE/COMMERCIAL	PLATE NO. R-54
1/26/10	REVISED	DESIGNED BY: A.A.			
		DRAWN BY: D.M.			
		CHECKED BY: G.F.			

KERN COUNTY DRIVEWAY DETAIL

SCALE: N.T.S. — QQ



NOTES

1. SLOPE IS PLUS 2% MAX FROM BACK OF CURB TO PROPERTY LINE.
2. SCORE SIDEWALK IN RECTANGLES OF NOT LESS THAN 25 SQUARE FEET NOR MORE THAN 20 SQUARE FEET.
3. CONCRETE FOR SIDEWALK SHALL BE CLASS 3 AS APPROVED BY THE "COUNTY OF KERN"
4. WEAKENED PLANE JOINTS SHALL BE CONSTRUCTED AT 5' FOR SIDEWALKS AS DIRECTED BY THE ENGINEER
5. EXPANSION JOINTS SHALL BE PLACED AT BEGIN/END OF CURB RETURNS, AND END OF CURB RETURNS AND OPPOSITE EXPANSION JOINTS IN DRIVEWAY APRONS. NOTE: MAXIMUM SPACING = 60 FT.

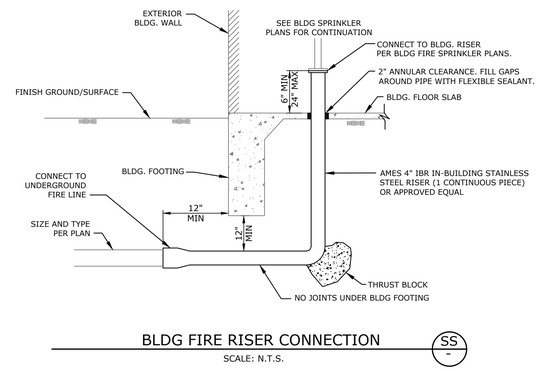
EXPANSION JOINTS SHALL BE EITHER (A) 1/4" TO PREMOLDED EXPANSION JOINT FILLER PER SEC. 51-1.12 OF THE STANDARD SPECIFICATIONS, OR (B) 2" DEEP SCORED JOINT (WEAKENED PLANE, EXTRUSION MACHINE ONLY)

PLOTTED: 02/25/2010 — I:\Drafting\Archive\Urb_Std\Rev'a_08\Urb_01\R-65.dwg

Revisions Date	Desc	DATE: 8-18-1995	COUNTY OF KERN STATE OF CALIFORNIA DEVELOPMENT STANDARD	STANDARD SIDEWALK DETAIL TYPE 2	PLATE NO. R-65
4/9/09	REVISED	DESIGNED BY: A.A.			
		DRAWN BY: D.M.			
		CHECKED BY: G.F.			

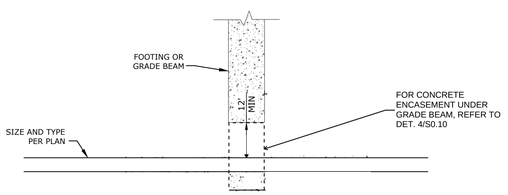
KERN COUNTY SIDEWALK DETAIL

SCALE: N.T.S. — RR



BLDG FIRE RISER CONNECTION

SCALE: N.T.S. — SS



PLASTIC PIPE UNDER FOOTING DETAIL

SCALE: N.T.S. — TT

AGENCY

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122536 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/24/2023

FLEWELLING & MOODY
architecture planning interiors

HEADQUARTERS OFFICE:
815 Colorado Blvd, Suite 200
Los Angeles, CA 90041
323.543.8300
E-Mail: fm-pasadena@flewelling-moody.com

ANTELOPE VALLEY OFFICE:
1035 West Lancaster Boulevard
Lancaster, California 93534
661.949.0771
E-Mail: fm-lancaster@flewelling-moody.com

An Employee Owned Corporation

ARCHITECT

LICENSED ARCHITECT
JOSHUA D. JENTSON
C-26053
Ren. Date 08/31/2023
STATE OF CALIFORNIA

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER
JOSHUA D. JENTSON
NO 77454
CIVIL
STATE OF CALIFORNIA

ECG
Encompass Consultant Group
25115 AVE STANFORD, SUITE A320, SANTA CLARITA, CA 91355
PHONE: 661.600.9367 WEBSITE: WWW.ECGCIVIL.COM

Drawn by

Checked by

Revisions

No.	Date	Description

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared for a specific site. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Flewelling & Moody.

SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

2925 ROSAMOND BLVD.
ROSAMOND, CA 93560

DETAILS

Job No.
2990

Date
01.30.2023

C5.03

811 Know what's below. Call before you dig.

Pump Data Sheet - Keen Pump Inc.

Company: Signa Services, Inc.
Name: Rosamond High School Cafeteria
Date: 07/18/2022

Data Sheet prepared for ECG, specifically for listed project by S

KEEN PUMP

Pump:

Size:	K3RN	Dimensions:	
Type:	Submersible Sewage	Suction:	3 in
Synch Speed:	1200 rpm	Discharge:	3 in
Dia.	5.5625 in		
Curve:	---		

Fluid:

Name:	Water		
SG:	1	Vapor Pressure:	0.256 psi a
Density:	62.4 lb/ft³	Atm Pressure:	14.7 psi a
Viscosity:	1.1 cP		
Temperature:	60 °F	Margin Ratio:	1

Search Criteria:

Flow:	125 US gpm	Near Miss:	---
Head:	10.7 ft	Static Head:	9.3 ft

Pump Limits:

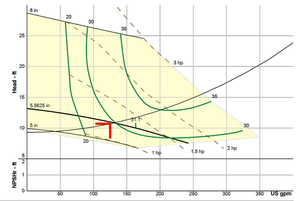
Temperature:	---	Sphere Size:	3 in
Wkg Pressure:	---		

Motor:

Standard:	NEMA	Size:	2 hp
Enclosure:	TEFC	Speed:	1200 rpm
Frame:	184T		
Sizing Criteria:	Max Power on Design Curve		

Pump Selection Warnings:
None

--- Duty Point ---	
Flow:	131 US gpm
Head:	10.8 ft
Eff:	29.4%
Power:	1.21 hp
NPSHr:	---
Speed:	1150 rpm
--- Design Curve ---	
Shutoff Head:	13.2 ft
Shutoff dP:	5.71 psi
Min Flow:	--- US gpm
BEP: 31.1% @ 163 US gpm	
NOL Power:	
1.64 hp @ 243 US gpm	
--- Max Curve ---	
Max Power:	
2.99 hp @ 174 US gpm	



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
150	1150	10.4	30.6	1.28	---
125	1150	11	29.4	1.21	---
100	1150	11.5	26	1.19	---
75	1150	12	19.6	1.17	---
50	1150	12.4	15.2	1.14	---

Selected from catalog: Keen.60, Vers 1.3.0

Solids-Handling Pumps

KEEN PUMP

K3RN(X)

FM APPROVED

3" Submersible, Recessed Impeller
(Class 1, Div. 1, Groups C & D Hazardous Location)

Optional :
All Stainless
Steel Construction

CERAMIC COATED RECESSED IMPELLER
- **Superior Abrasion Resistance**
- **Allows The Pump To Operate Better In Any Pressure Or Flow Condition**

CERAMIC COATED VOLUTE
- **Holds Up to Wear On Inside of Volute Casting Case**

STANDARD MOTOR CONSTRUCTION
- **Class H Laminations (Standard)**

MOTOR GROUND RING PROTECTION
- **Allows Motor To Operate With VFD Without Damaging Bearings and Motor**
- **Ground Ring Safely Diverts Harmful Voltages Away From Bearings**

DOUBLE ROW LOWER BEARINGS
- **Heavy Duty Bearings Handle The Toughest Applications of High Pressure and Flow Rates**

BEST MOTOR CONSTRUCTION
- **Class "N" (392° F) Highest Temperature**
- **Motor Will Not Overheat In Continuous Applications**

CAPABILITIES:
- **Flows---------- to 625 GPM**
- **Heads---------- to 71 Feet**
- **HP Range---------- 1 - 10 HP**
- **Voltage / Phase Options---------- 208/230V, 1 Phase - 208/230/460 V, 3 Phase**
- **Discharge Connections---------- 3" ANSI Class 125 Horizontal Flange**
- **Motor Speeds---------- 1150 / 1750 RPM**
- **Solids-Handling---------- 2.5"**
- **Impeller---------- Recessed, Vortex**
- **Motor Service Factor---------- 1.20**

Features and Benefits

Keen Pump's Bearing Protection Program

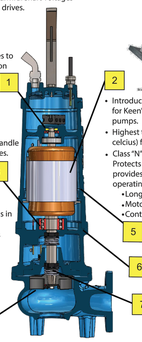
- Keen's Motor Grounding Ring protects the motor from harmful shaft voltages produced by VFD drives.
- Safely conducts the harmful voltages to the grounding ring adding protection for the bearings and extended life.

Double Row Bearings

- Heavy Duty Bearings to handle the toughest performances.
- High Pressures
- High Flows
- Handles both Axal and Radial loads in both directions at the same time.
- Double Row Angular Ball Bearings have two rows of balls arranged back-to-back.

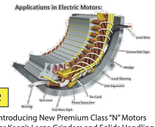
Ceramic Coating

The ultimate indestructable ceramic coated impellers and volutes for Keen's Solids Handling pumps. This allows the pump to operate in any condition without any problems! Impressive sand, grit, abrasion and cavitation resistance!



K3RN(X)

Heavy Duty Motor



- Introducing New Premium Class "N" Motors for Keen's Large Grinders and Solids Handling pumps.
- Highest temperature construction (200 degrees celcius) for motors
- Class "N" Construction is the best in the industry. Protects your motor from over heating and provides extended motor life. Motors are operating at higher teperatures due to:
  - Longer run times
  - Motor housing not submerged
  - Continuous

5 Castings
- ASTM - Class 35 high tensile strength castings.

6 Durable Powder Coat Finish
- Holds up to the toughest environmental conditions.

7 Dual Shaft Seals
- Twice the protection quality silicon carbide faces, viton elastomers, stainless steel construction.

KEEN PUMP

471 US HWY 250 East Ashland, Ohio 44805
419.207.9400 fax 419.207.8031
www.keenpump.com

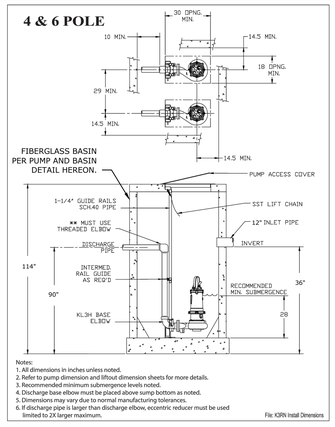
File - K3RN CUTS
Rev. 04/2021

KEEN PUMP

Section **VORTEX**
Date **NOV 2016**

Pump Series	K3RN	3" SUBMERSIBLE SEWAGE PUMPS

DUPLEX INSTALLATION DIMENSIONAL DATA



Notes:
1. All dimensions in inches unless noted.
2. Refer to pump dimension and liftout dimension sheets for more details.
3. Recommended minimum submergence levels noted.
4. Discharge base elbow must be placed above sump bottom as noted.
5. Dimensions may vary due to normal manufacturing tolerances.
6. If discharge pipe is larger than discharge elbow, eccentric reducer must be used limited to 2X larger maximum.

File: K3RN Install Dimensions

KEEN PUMP

Section SOLIDS-HANDLING
Dated April 2021

Pump Model: **K3RN**

Physical Data:

Discharge Size	ANSI 3" Horizontal
Solids Stator	2.5"
Impeller Type	Balanced, Recessed, 8 Vane
Power/Control Cable Length	40' Standard
Paint	Blue, Water Reducible Enamel, One Coat, Air Dried – Impeller & Inside Volute - Ceramic Coated For Abrasion Resistance

Motor Construction:

Motor Type	Enclosed Submersible Oil Filled
NEMA Insulation Code	Class H (**Optional** - Class N)
Service Factor	1.2
NEMA Design Type	B (50) L (10)
Single Phase Configuration	External Start and Run Components
Motor Protection	Thermal Sensors Embedded in the Windings
Maximum Stator Temperature	Class H: 356°F (180°C) Class N: 392° F (200°C) - **Optional**
Power Cord Type	SOOW - 600V, 90° C, Type W - 2000V, 90° C
Control Cord Type	16-4 or 18-5 - SOOW - 600V, 90° C

Materials of Construction:

Cord Entry	Cast Iron, ASTM A48, Class 35
Motor Housing	Cast Iron, ASTM A48, Class 35
Bearing Housing	Cast Iron, ASTM A48, Class 35
Volute	Cast Iron, ASTM A48, Class 35 / Ceramic Coated Inside
Impeller	Ductile Iron, ASTM A536, 60-40-18 / Ceramic Coated
Shaft	ANSI 400 Stainless Steel
Inboard Mechanical Seal	Silicone Carbide / Silicone Carbide / Viton Elastomers
Outboard Mechanical Seal	Silicone Carbide / Silicone Carbide / Viton Elastomers
Fasteners	ANSI 18-8 Stainless Steel
O-Rings	Nitrile Rubber
Upper Bearing	Conrad Style Single Row Deep Groove Ball Bearing
Lower Bearing	Conrad Style Double Row Angular Contact Ball Bearing
Line Bearing	Bronze, CDA 836

K3RN_M246_PG1

KEEN PUMP

Section VORTEX
Dated MAR 2017

Pump Model: **K3RN – 1150 RPM**

Thermal Data:

Maximum Liquid		140° F (60° C)
Maximum Stator		311° F (155° C)
Heat Sensor	**Open:**	257° F (125° C) Max. / 239° F (115° C) Min.
	Closed:	194° F (90° C) Max. / 119° F (48° C) Min.
Oil Flash Point		390° F (199° C)

Electrical Data:

RPM		**1150**		
Electrical Ratings	Heat Sensor	24VDC 5AMPS	115VAC 5AMPS	230VAC 5AMPS
	Seal Fail	300VAC 5mAMPS		
Voltage Tolerance		± 10%		

HP	Voltage	Phase	NEC Code	Service Factor	Full Load AMPS	SF Amps	Locked Rotor AMPS	Run KW	Start KVA	Run KVA
1	208	1	H	1.2	9.6	11.5	33.6	2.0	7.0	2.6
	230				8.6	10.4	30.3			
1	208	3	J	1.2	6.6	7.9	21.0	1.7	7.6	2.1
	230				6.2	7.4	18.9			
	460				3.1	3.7	9.5			
2	208	1	H	1.2	18.9	22.7	66.2	13.8	5.1	5.1
	230				17.0	20.4	59.6			
	208	3	G	1.2	9.9	11.9	34.7			
2	230				8.9	10.7	31.2	2.8	12.5	3.5
	460				4.5	5.4	15.6			
3	208	1	F	1.0	22.7	22.7	79.5	4.7	16.5	6.1
	230				20.5	20.5	71.6			
3	208	3	G	1.0	14.3	14.3	50.1	4.1	18.0	6.0
	230				12.9	12.9	45.1			
	460				6.4	6.4	22.5			

Motor Efficiencies & Power Factor

HP	Phase	Motor Efficiency %				Power Factor %			
		Service Factor Load	100% Load	75% Load	50% Load	Service Factor Load	100% Load	75% Load	50% Load
1	1	60	60	59	53	75	73	66	57
1	3	65	62	56	52	75	72	67	61
2	1	63	61	60	50	76	74	70	62
2	3	65	64	60	52	78	76	71	60
3	1	68	65	59	55	75	70	64	54
3	3	65	64	60	57	79	78	71	59

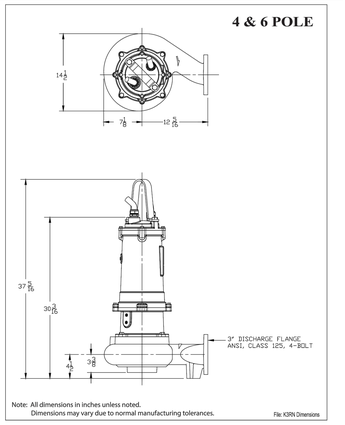
K3RN_M6_PG2

KEEN PUMP

Section **VORTEX**
Date **NOV 2016**

Pump Series	K3RN	3" SUBMERSIBLE SEWAGE PUMPS

DIMENSIONAL DATA



Note: All dimensions in inches unless noted.
Dimensions may vary due to normal manufacturing tolerances.

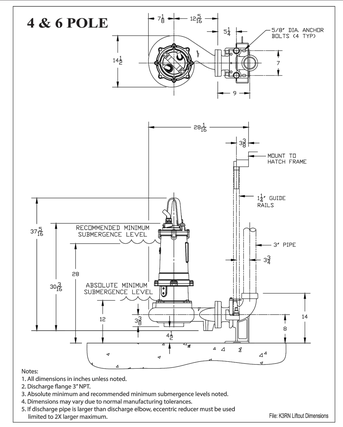
File: K3RN Dimensions

KEEN PUMP

Section **VORTEX**
Date **NOV 2016**

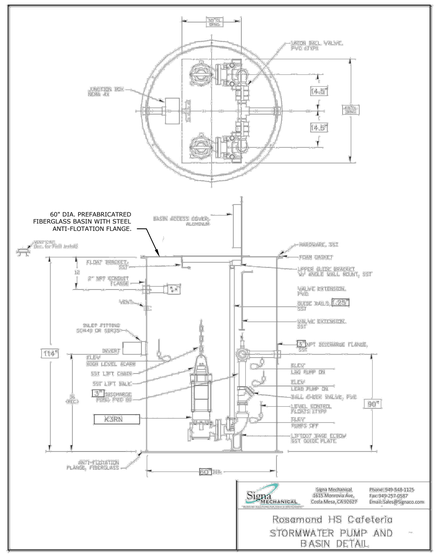
Pump Series	K3RN	3" SUBMERSIBLE SEWAGE PUMPS

LIFTOUT DIMENSIONAL DATA



Notes:
1. All dimensions in inches unless noted.
2. Discharge flange 3" NPT.
3. Absolute minimum and recommended minimum submergence levels noted.
4. Dimensions may vary due to normal manufacturing tolerances.
5. If discharge pipe is larger than discharge elbow, eccentric reducer must be used limited to 2X larger maximum.

File: K3RN Liftout Dimensions



KEEN PUMP

Duplex Control Panels
4 Float Operation

KEEN Pump duplex control panels are custom designed for use with KEEN grinder and sewage pumps and packaged systems.

All control panels are built to Underwriters Laboratories UL508 standard to ensure the highest level of quality and safety.

All panels can carry the UL label.

There are many optional features available, consult the "Control Panel Options Page".

Standard Features – Duplex Panels

Single Phase
- **NEMA 4X Fiberglass Enclosure**
- **Stainless Steel Piano Hinge**
- **(2) Pump Circuit Breakers (2 Pole)**
- **(2) Capacitor Start Kits**
- **Control Circuit Breaker**
- **(2) Motor Contactors**
- **Alternator (switch able w/ lights)**
- **External Alarm Light**
  - **Flashing – High Water Level**
- **Audible Alarm – Sonalert Buzzer**
- **Alarm Test Switch**
- **(3) Control Circuit Relays**
- **DIN Rail Mounted Components**
- **Aluminum Back plate**
- **(2) Internal HOA Switches**
- **External Lockable Hasps**
- **Easy Wiring Terminal Blocks**
- **Grounding Lugs**
- **Wiring in Enclosed Wire way**
- **Transformer (460 volt panels only)**

Three Phase
- **NEMA 4X Fiberglass Enclosure**
- **Stainless Steel Piano Hinge**
- **(2) Pump Circuit Breakers (3 Pole)**
- **Control Circuit Breaker**
- **(2) Motor Starters**
- **Alternator (switch able w/ lights)**
- **External Alarm Light**
  - **Flashing – High Water Level**
- **Audible Alarm – Sonalert Buzzer**
- **Alarm Test Switch**
- **(3)Control Circuit Relays**
- **DIN Rail Mounted Components**
- **Aluminum Back plate**
- **(2) Internal HOA Switches**
- **External Lockable Hasps**
- **Easy Wiring Terminal Blocks**
- **Grounding Lugs**
- **Wiring in Enclosed Wire way**
- **Transformer (460 volt panels only)**

SAM

Protect Your Pump

SAM is your pump station's constant companion, providing enhanced remote monitoring capabilities to protect your system. Compatible with a variety of water and wastewater pumps, SAM can be added to an existing system or configured when ordering new equipment.

Features
- Collects data on pump run times and cycles
- Map overview of installed systems and statuses
- Automatic notifications (via text or email) for alert conditions
- Scheduled, customizable reports
- Web platform access to review pump performance and history of alerts
- Monitors up to 4 pumps in one station

Benefits of SAM
-Reduce unnecessary service callouts for "false" alarms
-Replaces service contract for on-site preventative maintenance and inspections
-Troubleshooting data is available to service provided prior to arrival on site
-Homeowner Peace of Mind, especially for vacation or second homes
-Instant notification for critical statuses and resolution

How does SAM work?

A cellular modem is wired into the pump system's control panel, using one of SAM's monitoring component kits.

As the panel receives electrical signals from the pump, the modem collects and sends the data to a web platform, where it can be accessed for active monitoring.

When an alert condition occurs, the web platform will send an automatic notification, immediately advising you of critical system statuses via text or email.

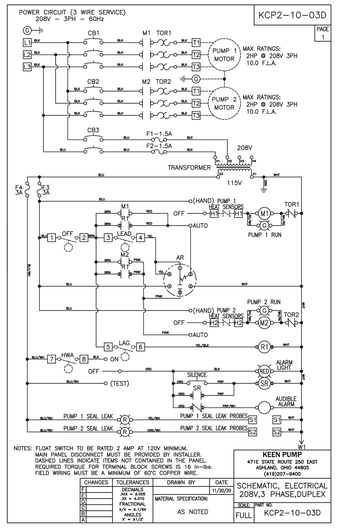
STATION ALERT MONITORING

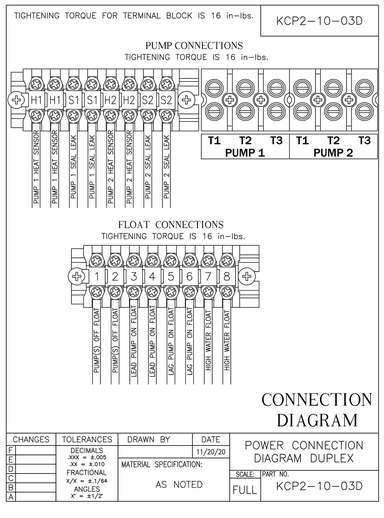
Local Service Centers:

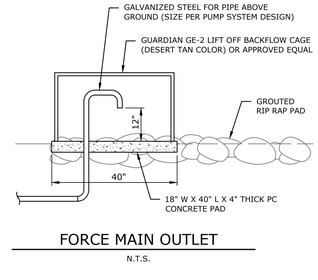
Signa Mechanical

Southern CA, Las Vegas Metro & Eastern NV
(949) 548-1125
1615 Monrovia Ave,
Costa Mesa, CA 92627

Northern CA, Reno Metro & Western NV
(855) 747-4462
29441 Kohoutek Way,
Union City, CA 94587







FORCE MAIN OUTLET

N.T.S.

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LICENSED ARCHITECT JOSHUA D. JENISON C-26053 Ren. Date 08/31/2025 STATE OF CALIFORNIA

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER JOSHUA D. JENISON NO 77454 CIVIL STATE OF CALIFORNIA

ECG Encompass Consultant Group
25115 AVE STANFORD, SUITE A320, SANTA CLARITA, CA 91355
PHONE: 661.600.9367 WEBSITE: WWW.ECGCIVIL.COM

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

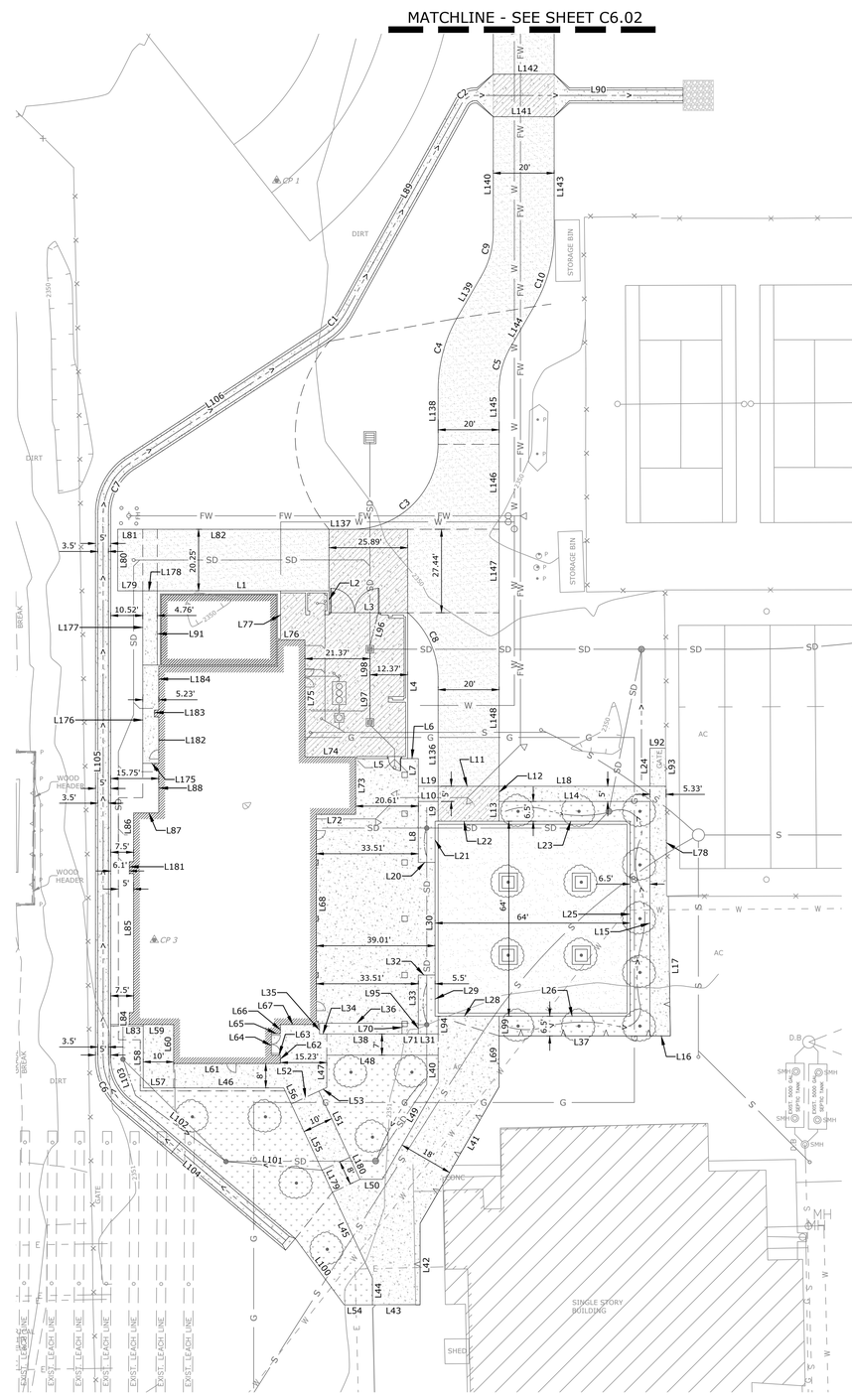
2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

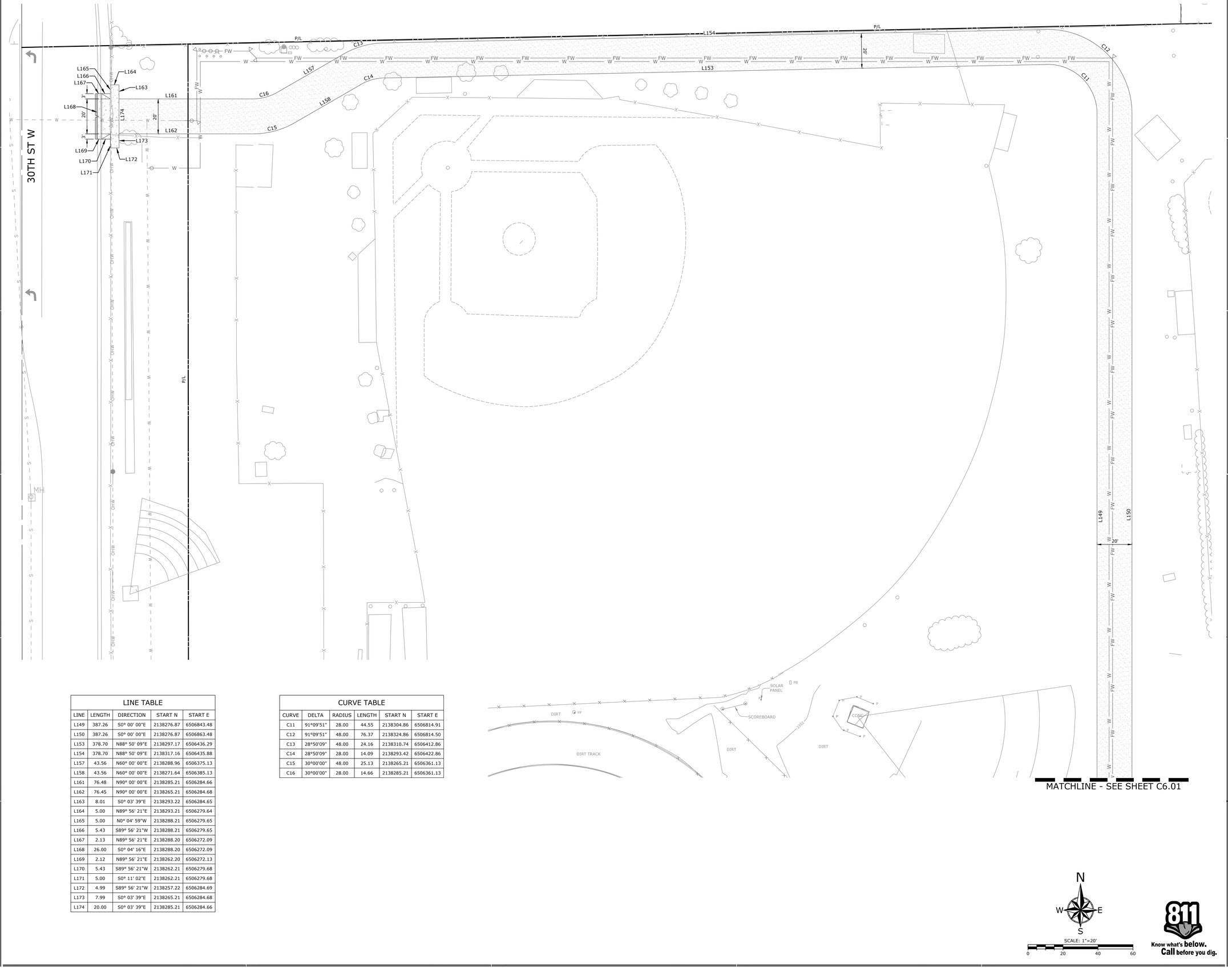
SUMP PUMP DETAILS

Job No.
2990

Date
01.30.2023

C5.04


MATCHLINE - SEE SHEET C6.02
CP 1
CP 3
DIRT
STORAGE BIN
WOOD HEADER
BREAK
SINGLE STORY BUILDING
SHED
CONC
AC
EXIST. LP ADD. LINE
EXIST. LP ADD. LINE
EXIST. LP ADD. LINE



MATCHLINE - SEE SHEET C6.01

LINE TABLE				
LINE	LENGTH	DIRECTION	START N	START E
L149	387.26	S0° 00' 00"E	2138276.87	6506843.48
L150	387.26	S0° 00' 00"E	2138276.87	6506863.48
L153	378.70	N88° 50' 09"E	2138297.17	6506436.29
L154	378.70	N88° 50' 09"E	2138317.16	6506435.88
L157	43.56	N60° 00' 00"E	2138288.96	6506375.13
L158	43.56	N60° 00' 00"E	2138271.64	6506385.13
L161	76.48	N90° 00' 00"E	2138285.21	6506284.66
L162	76.45	N90° 00' 00"E	2138265.21	6506284.68
L163	8.01	S0° 03' 39"E	2138293.22	6506284.65
L164	5.00	N89° 56' 21"E	2138293.21	6506279.64
L165	5.00	N0° 04' 59"W	2138288.21	6506279.65
L166	5.43	S89° 56' 21"W	2138288.21	6506279.65
L167	2.13	N89° 56' 21"E	2138288.20	6506272.09
L168	26.00	S0° 04' 16"E	2138288.20	6506272.09
L169	2.12	N89° 56' 21"E	2138262.20	6506272.13
L170	5.43	S89° 56' 21"W	2138262.21	6506279.68
L171	5.00	S0° 11' 02"E	2138262.21	6506279.68
L172	4.99	S89° 56' 21"W	2138257.22	6506284.69
L173	7.99	S0° 03' 39"E	2138265.21	6506284.68
L174	20.00	S0° 03' 39"E	2138285.21	6506284.66

CURVE TABLE					
CURVE	DELTA	RADIUS	LENGTH	START N	START E
C11	91°09'51"	28.00	44.55	2138304.86	6506814.91
C12	91°09'51"	48.00	76.37	2138324.86	6506814.50
C13	28°50'09"	48.00	24.16	2138310.74	6506412.86
C14	28°50'09"	28.00	14.09	2138293.42	6506422.86
C15	30°00'00"	48.00	25.13	2138265.21	6506361.13
C16	30°00'00"	28.00	14.66	2138285.21	6506361.13

N
W E
S

SCALE: 1"=20'
0 20 40 60

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

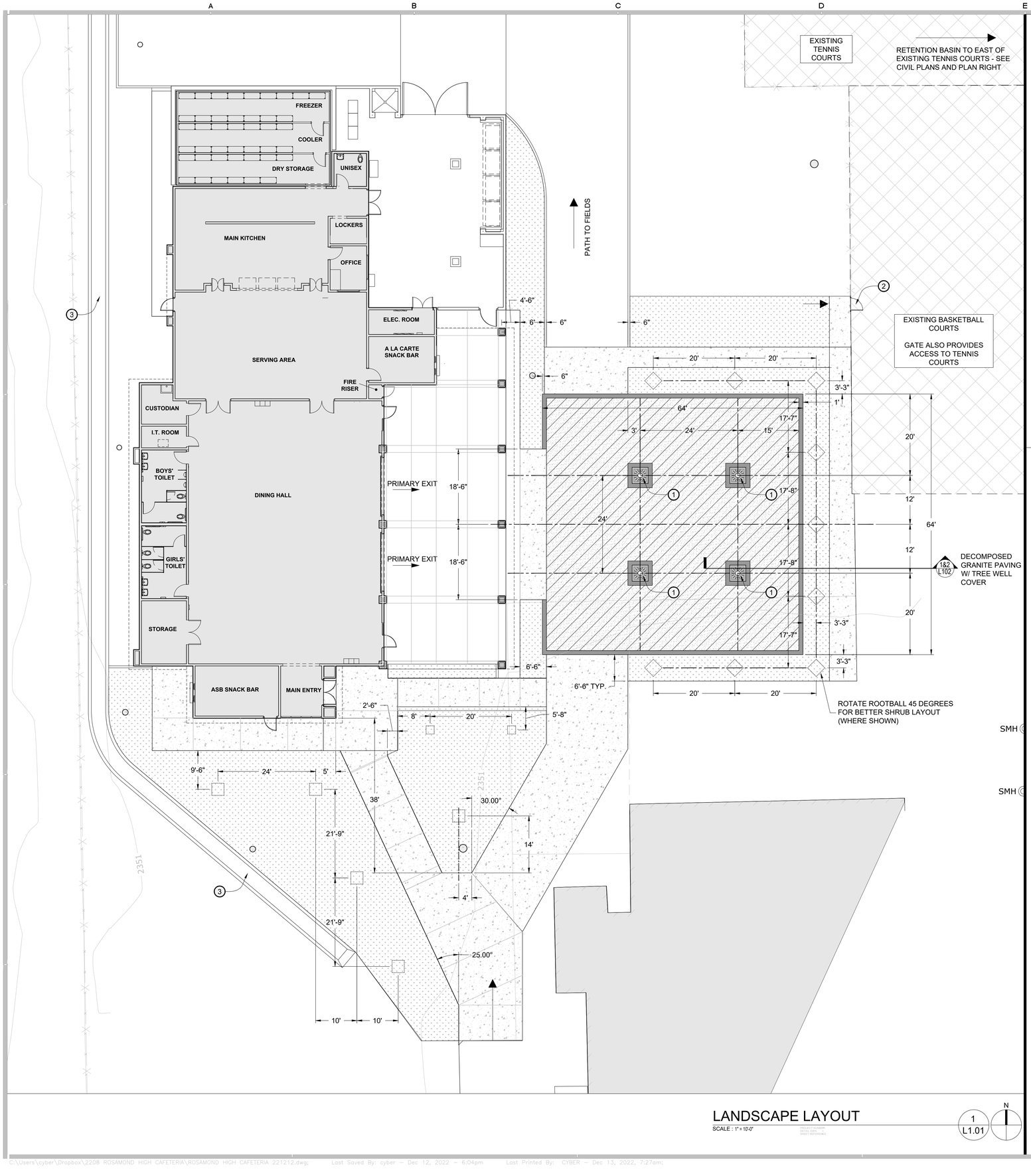
2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

DIMENSION CONTROL PLAN

Job No.
2990

Date
01.30.2023

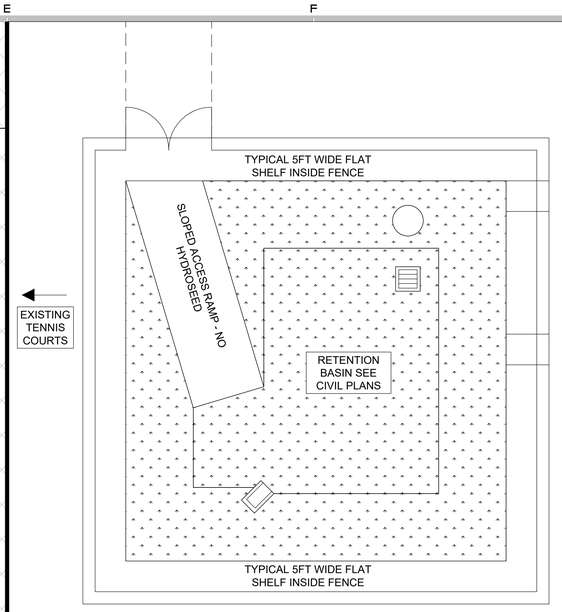
C6.02



LANDSCAPE LAYOUT

SCALE : 1" = 10'-0"

1 / L1.01



TOTAL HYDROSEED AREA: 3,353sf

RETENTION BASIN

SCALE : 1" = 10'-0"

2 / L1.01

N

LANDSCAPE LEGEND

1. TREE PLANTING WITH PRECAST CONCRETE TREE WELL - SEE DETAIL 2 / SHEET L1.02
2. EXISTING GATE
3. DRAINAGE CHANNEL - SEE CIVIL DWGS

LANDSCAPE LEGEND

- STABILIZED DECOMPOSED GRANITE PAVING - SEE ARCH DETAIL 1 / L1.02
- LANDSCAPE AREAS
- HYDROSEED AREA
- TREE BOX LOCATIONS

TREE WELL COVERS

"A" STYLE SQUARE PRECAST CONCRETE TREE WELL COVER
MODEL: QS-48A-TG - QTY: 4 - COLOR: NATURAL
SEE DETAIL 1 / L1.02

TREE GRATES BY QCP CORPORATION, NORCO, CALIFORNIA
WEBSITE: https://qcp-corp.com/detail/style-square/1148
WEBSITE: https://qcp-corp.com/detail/style-round/1146
PHONE: 1 (866) 703 - 3434
EMAIL: SALES @QCP-CORP.COM
SALES REP: JUSTIN WAIT - JUSTIN.WAIT@QCP-CORP.COM

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Mark Beall associates
landscape architecture
7033 W Sunset Blvd. Suite 216
Los Angeles, CA 90028-7525
Cell: 323-683-1450
Fax: 323-465-1458
E-mail: info @ mbeall.com

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MARK D. BEALL
CA NO 3640
REN. 04/30/23
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LANDSCAPE LAYOUT

Job No.
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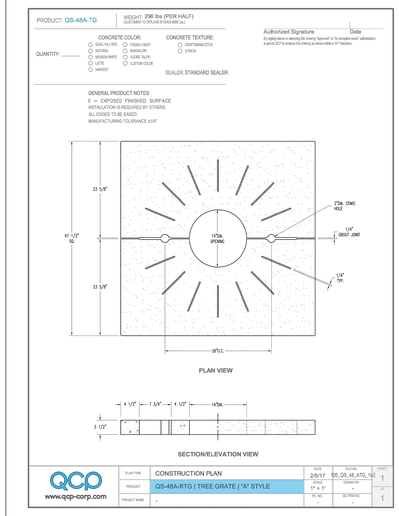
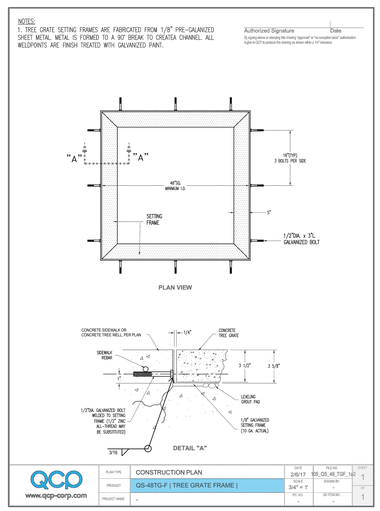
Date
01.30.2023

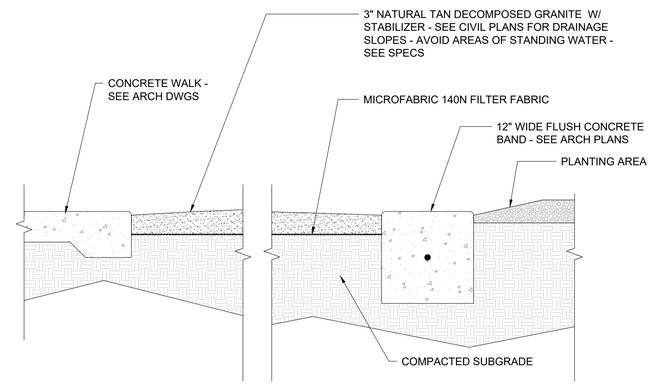
L1.01





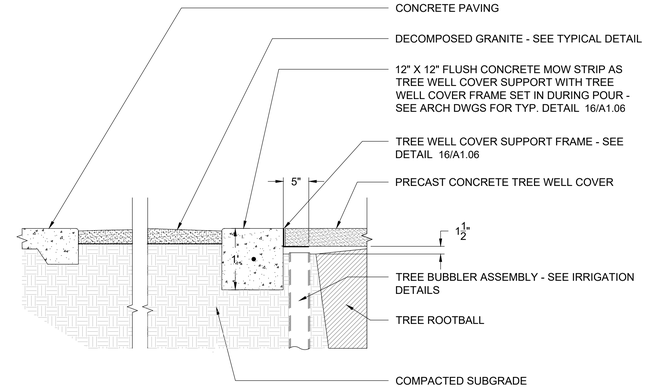
3 48" SQUARE PRECAST TREE GRATE

AS NOTED



1 STABILIZED DECOMPOSED GRANITE PAVING (BASE BID)

1-1/2" = 1'-0"



2 CONCRETE TREE WELL COVER IN DG AREA (BASE BID)

1" = 1'-0"

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

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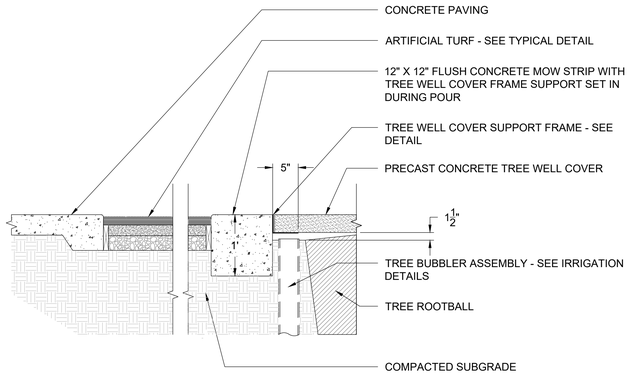
BASE BID DETAILS

Job No.
2990

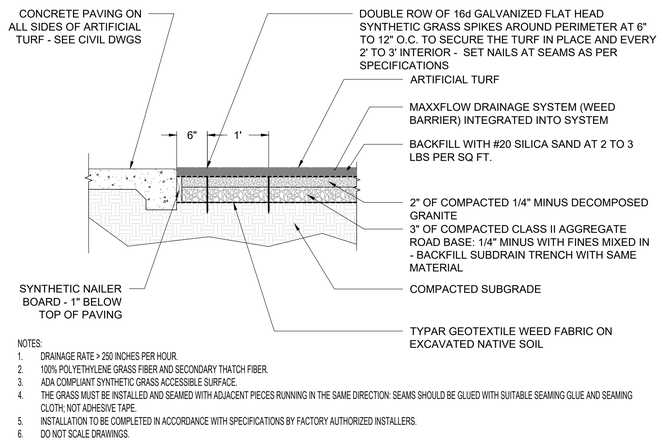
Date
01.30.2023

L1.02



3 CONCRETE TREE WELL IN ARTIFICIAL TURF (BID ALTERNATE NO. 1)

1" = 1'-0"



NOTES:
1. DRAINAGE RATE > 250 INCHES PER HOUR.
2. 100% POLYETHYLENE GRASS FIBER AND SECONDARY THATCH FIBER.
3. ADA COMPLIANT SYNTHETIC GRASS ACCESSIBLE SURFACE.
4. THE GRASS MUST BE INSTALLED AND SEAMED WITH ADJACENT PIECES RUNNING IN THE SAME DIRECTION: SEAMS SHOULD BE GLUED WITH SUITABLE SEAMING GLUE AND SEAMING CLOTH; NOT ADHESIVE TAPE.
5. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH SPECIFICATIONS BY FACTORY AUTHORIZED INSTALLERS.
6. DO NOT SCALE DRAWINGS.

4 ARTIFICIAL TURF (BID ALTERNATE NO. 1)

1" = 1'-0"

LANDSCAPE LEGEND

ARTIFICIAL TURF - SEE SPECS

LANDSCAPE AREAS

TREE BOX LOCATIONS

BENCHES (BID ALTERNATE NO. 2)

COATED STEEL PLAYERS BENCH WITHOUT BACK - IN GROUND BENCH INSTALLATION ADVANTAGE FINISH

MODEL: BYNB6G-PA - QTY: 2 - COLOR: BLACK

TABLE/BENCH SET (BID ALTERNATE NO. 2)

46" SQUARE TOP TABLE W/ PERFORATED METAL AND 4 BENCH SEATS ADVANTAGE FINISH - IN GROUND MOUNT

MODEL: TSQP464G-PS - QTY: 10 - COLOR: BLACK

46" SQUARE TOP TABLE W/ PERFORATED METAL AND 3 BENCH SEATS (ADA ACCESSIBLE) ADVANTAGE FINISH - IN GROUND MOUNT

MODEL: TSQP463HG-PS - QTY: 4 - COLOR: BLACK

46" SQUARE TOP TABLE W/ PERFORATED METAL AND 2 BENCH SEATS ADVANTAGE FINISH - IN GROUND MOUNT

MODEL: TSQP462G-PS - QTY: 2 - COLOR BLACK

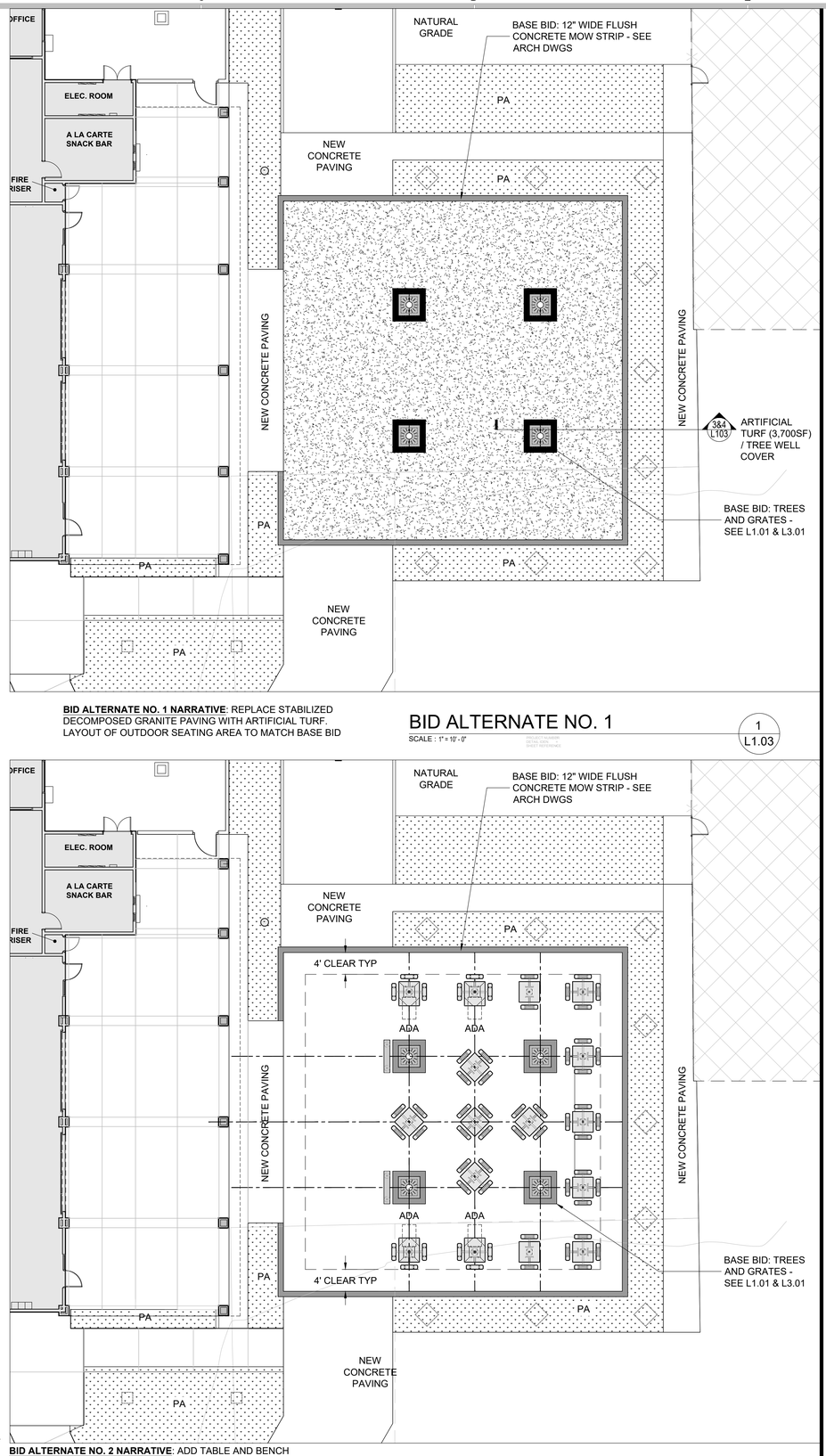
BID ALTERNATE NO. 2 OPTIONS

BID ALTERNATE NO. 2 AS PART OF BASE BID: IN GROUND FURNITURE INSTALLATION IN DECOMPOSED GRANITE - SEE DETAIL

BID ALTERNATE NO. 2 AS PART OF BID ALTERNATE NO. 1: IN GROUND FURNITURE INSTALLATION IN ARTIFICIAL TURF

ALL FURNITURE BY BELSON OUTDOORS

BENCH WEBSITE: https://www.belson.com/Coated-Steel-Players-Benches-without-Back-Punched-Steel
TABLE WEBSITE: https://www.belson.com/Square-Coated-Steel-Pedestal-Tables-Punched-Steel
CONTACT: 1 (800) 323 - 5664 / HOURS: M-F, 8AM TO 4:30PM CT



BID ALTERNATE NO. 1 NARRATIVE: REPLACE STABILIZED DECOMPOSED GRANITE PAVING WITH ARTIFICIAL TURF. LAYOUT OF OUTDOOR SEATING AREA TO MATCH BASE BID

BID ALTERNATE NO. 1

SCALE : 1" = 10'-0"

1 L1.03

BID ALTERNATE NO. 2 NARRATIVE: ADD TABLE AND BENCH FURNITURE AS INDICATED. IN GROUND MOUNT - SEE DETAIL

BASE BID: INSTALLATION TO BE IN STABILIZED DECOMPOSED GRANITE PAVING.

BID ALTERNATE NO. 1 ACCEPTANCE: FURNITURE INSTALLATION TO BE IN ARTIFICIAL TURF AREA IF BID ALTERNATE NO. 1 IS ACCEPTED.

BID ALTERNATE NO. 2

SCALE : 1" = 10'-0"

1 L1.03

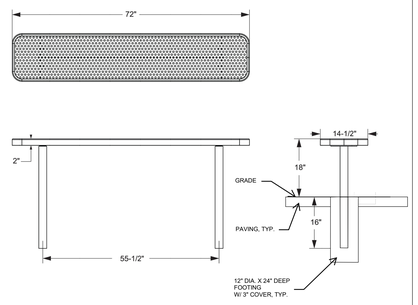
N

BELSON OUTDOORS

627 Amersale Drive
Naperville, IL 60563
Phone: (800) 323-5664
Fax: (630) 897-0573
sales@belson.com

Model # BYNB6G-PA — **Dimension Sheet**

6' Coated Steel Players Benches without Back



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627 Amersale Drive
Naperville, IL 60563
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Fax: (630) 897-0573
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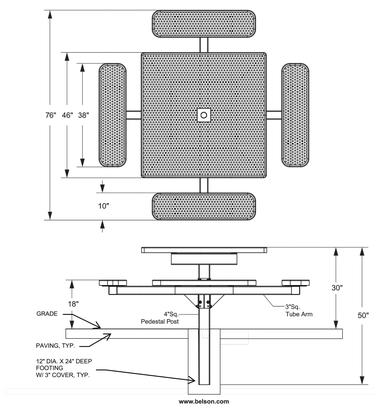
Model # TSQP464G-PS — **Dimension Sheet**

Square Coated Steel Pedestal Tables



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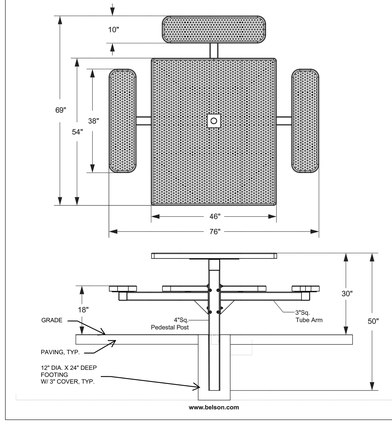
Model # TSQP463HG-PS — **Dimension Sheet**

Square Coated Steel Pedestal Tables



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FURNITURE SPEC SHEETS (BID ALTERNATE NO. 2)

ROSA 'RED MEIDILAND' (RED CARPET ROSE)

AGENCY

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122536 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/24/2023

FLEWELLING & MOODY
architecture planning interiors

HEADQUARTERS OFFICE:
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ANTELOPE VALLEY OFFICE:
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ARCHITECT

LICENSED ARCHITECT
C-26053
Ren. Date 08/31/2023
STATE OF CALIFORNIA

CONSULTANT

Mark Beall associates
landscape architecture

7033 W Sunset Blvd, Suite 216
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Fax: 323-465-1458
E-mail: info @ mbeall.com

LICENSED LANDSCAPE ARCHITECT
MARK D. BEALL
CA NO 3640
REN. 04/30/23
STATE OF CALIFORNIA

Drawn by

Checked by

Revisions

No.	Date	Description

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

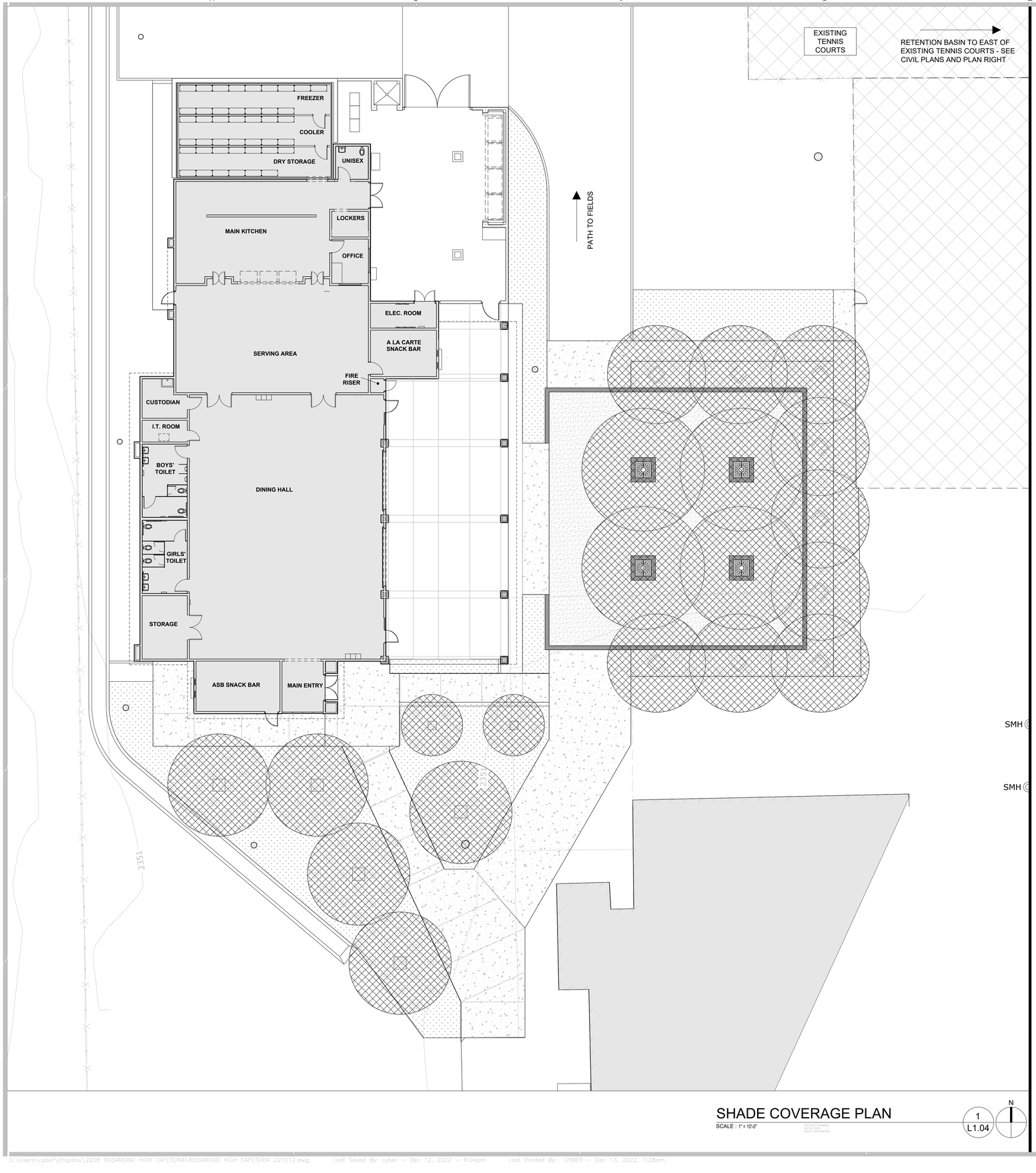
2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

BID ALTERNATES
NO. 1 & 2

Job No. 2990

Date 01.30.2023

L1.03



SHADE COVERAGE PLAN

SCALE : 1" = 10'-0"

1 / L1.04

N

AREA CALCULATIONS - BASE BID

TOTAL HARDSCAPE AND LANDSCAPE AREA 13,906
(HARDSCAPE = CONCRETE, DECOMPOSED GRANITE)

SHADE AREA 8,736

RATIO OF SHADE AREA TO HARDSCAPE/LANDSCAPE: 63%

EXCEEDS 20% MINIMUM CAL GREEN SECTION 5.106.12 SHADE REQUIREMENT

SHADE TREE LEGEND

BASE BID

BOTANICAL NAME	PROJECTED 15YR CANOPY	QTY
CHITALPA 'PINK CLOUD'	25FT	9
COTINUS COGGYGRIA	15FT	2
GLEDITSIA 'SHADEMASTER'	30FT	4
OLEA EUROPAEA 'SWAN HILL'	25FT	5

TOTAL NUMBER OF TREES: 20

TOTAL SHADE SQUARE FOOTAGE: 8,601

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

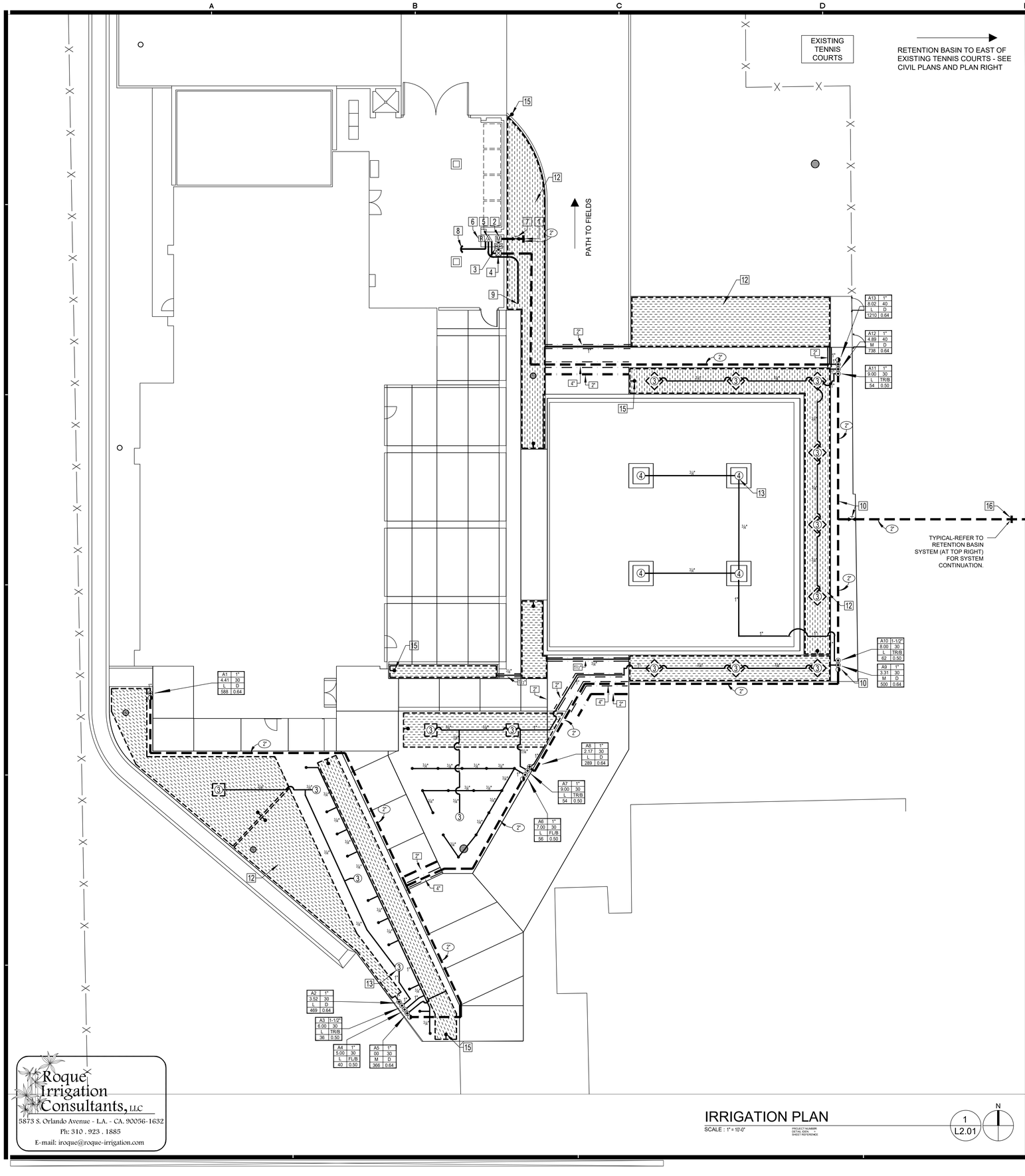
2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

CAL GREEN
SHADE CALCULATION

Job No. 2990

Date 01.30.2023

L1.04

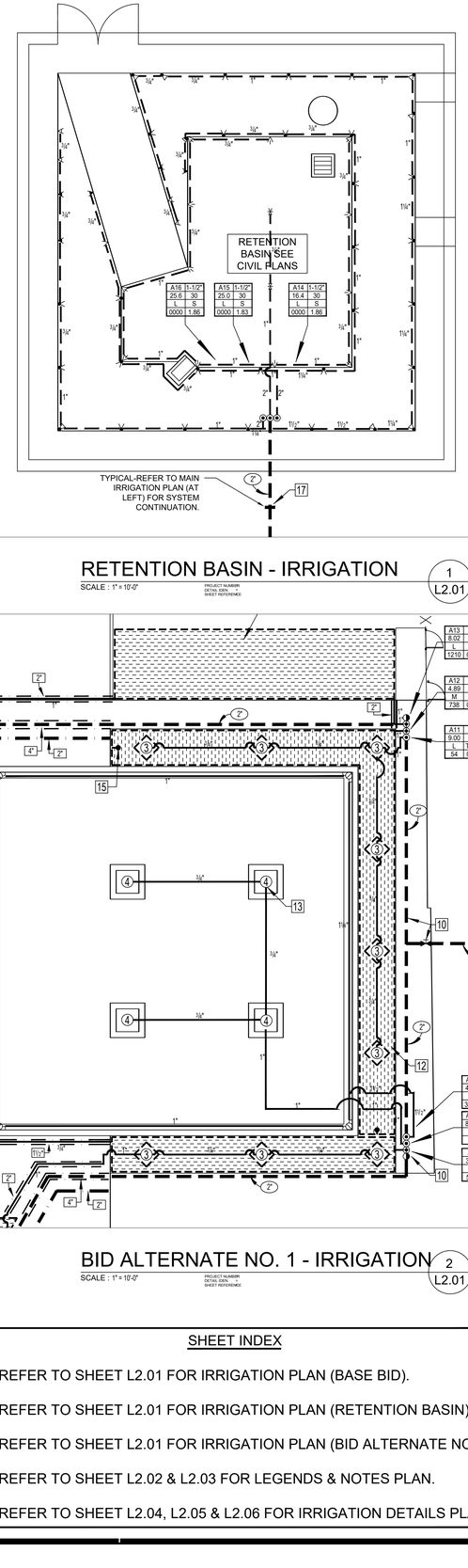


IRRIGATION PLAN

SCALE : 1" = 10'-0"

PROJECT NUMBER
DETAIL NUM. = 1
SHEET REFERENCE

1 L2.01



RETENTION BASIN - IRRIGATION

SCALE : 1" = 10'-0"

PROJECT NUMBER
DETAIL NUM. = 1
SHEET REFERENCE

1 L2.01

BID ALTERNATE NO. 1 - IRRIGATION

SCALE : 1" = 10'-0"

PROJECT NUMBER
DETAIL NUM. = 2
SHEET REFERENCE

2 L2.01

SHEET INDEX

- REFER TO SHEET L2.01 FOR IRRIGATION PLAN (BASE BID).
- REFER TO SHEET L2.01 FOR IRRIGATION PLAN (RETENTION BASIN).
- REFER TO SHEET L2.01 FOR IRRIGATION PLAN (BID ALTERNATE NO. 1).
- REFER TO SHEET L2.02 & L2.03 FOR LEGENDS & NOTES PLAN.
- REFER TO SHEET L2.04, L2.05 & L2.06 FOR IRRIGATION DETAILS PLAN.

Roque Irrigation Consultants, LLC
5873 S. Orlando Avenue - L.A. - CA. 90056-1632
Ph: 310 . 923 . 1885
E-mail: iroque@roque-irrigation.com

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ROSAMOND HIGH EARLY COLLEGE CAMPUS

2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

IRRIGATION PLAN

Job No. 2990

Date 01.30.2023

L2.01

IRRIGATION EQUIPMENT LEGEND

SYMBOL	MANUF.	MODEL NO.	DESCRIPTION	DETAILS	SHEET
RP	FEBCO/WATTS NIBCO	825Y / LFU5B-GG-Z3 SERIES T-585-70	1-1/2" BACKFLOW PREVENTER ASSEMBLY - INSTALL R.P. BACKFLOW W/ (LINE SIZE) PRESSURE REGULATOR/WYE STRAINER. PRESSURE REGULATOR SET AT 80 P.S.I.-DELIVERY PRESSURE. REFER TO DETAIL NO. 18 - 2 PIECE BODY FULL PORT-THREADED ON ENDS - INSTALLED INSIDE STRONGBOX ENCLOSURE SSBC/22CR-PBB-22	18	L2.05
	SUPERIOR	3100 SERIES	MASTER CONTROL VALVE ASSEMBLY (NORMALLY OPEN) MATCH LINE SIZE	19	L2.06
	RAINMASTER	FS-B100	FLOW SENSOR ASSEMBLY (BRONZE) INSTALL PER MANUFACTURERS RECOMMENDATIONS	20	L2.06
M	NETAFIM	WM-150-1.0-RS	1-1/2" SUB-METER ASSEMBLY w/ METAL BODY. INSTALL PER MANUFACTURER RECOMMENDATIONS	21	L2.06
	RAIN BIRD	33-DLRC-33DK	TWO PIECE BODY - DOUBLE KEY LUG - LOCKING RUBBER COVER W/ VALVE KEY	6	L2.04
	RAIN BIRD NIBCO	PEB - PRS-D T-585-70	(PRESSURE REGULATED) REMOTE CONTROL VALVE ASSEMBLY W/ BALL VALVE - INSTALLED ON SUPPLY SIDE OF VALVE (MATCH LINE SIZE) - SIZE PER PLAN	3	L2.04
	RAIN BIRD	XCZ-075-PRF SERIES	LOW FLOW (DRIP) REMOTE CONTROL VALVE ASSEMBLY w/ PR-RBY FILTER - SIZE PER PLAN (LOW FLOW VALVE WITH PRESSURE REGULATOR (30 P.S.I.) AND (200 MESH) FILTER ASSEMBLY)	4	L2.04
	RAIN BIRD	XCZ-100-PRB-COM SERIES	MEDIUM FLOW (DRIP) REMOTE CONTROL VALVE ASSEMBLY W/ QUICK CHECK BASKET FILTER - SIZE PER PLAN (MEDIUM FLOW VALVE WITH PRESSURE REGULATOR (40 P.S.I.) AND (200 MESH) FILTER ASSEMBLY)	5	L2.04
T	NIBCO	T-113 SERIES W/ KEY	BRONZE GATE VALVE - NON-RISING STEM - MATCH LINE SIZE	7	L2.04
	RAIN BIRD	1812 SERIES POP-UP (FLUSH-OUT)	DRIP OPERATION INDICATOR AND FLUSH-OUT (RAIN BIRD 1812 POP-UP HEAD ASSEMBLY WITH RISER CAPPED)	11	L2.05
	RAIN BIRD	ESP-24LMXEF SERIES	AUTOMATIC CONTROLLER (WI-FI CONNECTED) SHALL BE INSTALLED IN WALL MOUNTED STAINLESS STEEL ENCLOSURE WITH ON/ OFF SWITCH. CONTROL WIRE SHALL BE PAIGE ELECTRIC P707JD 14 AWG-UF DIRECT BURIAL UL APPROVED. INSTALLED IN A STEEL ELECTRICAL CONDUIT. USE OF MODEL DBR/Y-6 WIRE SPLICES, AS MANUFACTURED BY THE 3M COMPANY. REQUIRED 120V. INDEPENDENT ELECTRICAL SERVICE TO BE PROVIDED BY OTHERS. EXACT LOCATION TO BE DETERMINED ON SITE. (INSTALL A RJ-45 RECEPTACLE FOR DIRECT NETWORK CONNECTION) CONTRACTOR TO ESTABLISH WI-FI CONNECTION AT TIME OF INSTALLATION. (V.I.T. STRONGBOX ENCLOSURE SB-18SSW)	1	L2.04
R	HUNTER IND.	WSS-SEN SERIES	RAIN/FREEZE SENSOR ASSEMBLY INSTALLED ON EXTERIOR SIDE OF EXISTING CONTROLLER ENCLOSURE WITH NO OVERHEAD OBSTRUCTIONS. INSTALLED PER MANUFACTURER RECOMMENDATION.	2	L2.04
	MAIN LINE (PRESSURE SUPPLY) PIPE SCHEDULE 40 PVC FOR PIPE 2" AND SMALLER - BURY 18" BELOW FINISH GRADE - SIZE PER PLAN - REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION SCHEDULE 315 PVC FOR PIPE 2-1/2" TO 4" - BURY 24" BELOW FINISH GRADE - SIZE PER PLAN - REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION			SPEC	L2.01
	NON-PRESSURE (LATERAL LINE) PIPE SCHEDULE 40 PVC - BURY 12" BELOW FINISH GRADE - SIZE PER PLAN - REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION			SPEC	L2.01
	(ON-SURFACE) NON-PRESSURE PIPE SCHEDULE 40 PVC (ULTRA-VIOLET RESISTANT UVR TYPE) - SIZE PER PLAN (ALL PIPING INSTALLED ON-SURFACE SHALL BE SECURED WITH "J" TYPE REBAR.			SPEC	L2.01
	SLEEVE FOR PRESSURE OR NON-PRESSURE PIPE SCHEDULE 40 PVC - 2X DIAMETER OF PIPE BEING SLEEVED - SIZE PER PLAN - BURY 24" BELOW FINISH GRADE (ALL PRESSURE SUPPLY LINE SLEEVE SHALL BE ACCOMPANIED BY A 2" MINIMUM SLEEVE FOR WIRES (SCHEDULE 40 PVC)			SPEC	L2.01
	SLEEVE FOR LOW VOLTAGE WIRES/CABLES SCHEDULE 40 PVC - BURY 24" BELOW FINISH GRADE - SIZE PER PLAN (OR SIZE ACCORDINGLY, WITHOUT RESISTANCE WHEN PULLING WIRE (S) THROUGH SLEEVE)			SPEC	L2.01
NO SYMBOL	GENERAL TRENCHING - PIPE AND WIRES			16	L2.05
NO SYMBOL	TYPICAL VALVE BOX GROUPING AND LAYOUT			17	L2.05

SPRINKLER HEAD LEGEND

SYMBOL	MANUFACTURER	MODEL: BODY / NOZZLE	RADIUS	PRESS.	NOZZLE FLOW RATE GPM	PRECIP. IN/HR	DETAILS	SHEET
BUBBLER								
2 3 4	RAINBIRD	RWS-B-C-1402 (3 BUBBLERS FOR 36" BOX TR.)	-	30	0.50	0.50	8	L2.04
●	RAIN BIRD	1806-SAM-PRS-1402 SERIES w/ ADAPTOR	-	30	0.50	0.50	15	L2.05
SHRUB POP UP								
F 2T H 1T Q	- / RAIN BIRD / -	- / 1806-SAM-PRS-MPR5 NOZZLES / -	5'-6'	30	0.20-H	1.78	13	L2.05
SHRUB POP UP								
F 2T H 1T Q	RAIN BIRD / RAN BIRD / -	1806-SAM-PRS-MPR8 NOZZLES / 1806-SAM-PRS-MPR8 NOZZLES / -	7'-8' / 7'-8'	30 / 30	0.26-Q / 0.52-H	1.81	13	L2.05
SHRUB POP UP								
F 2T H 1T Q	- / RAIN BIRD / -	- / 1806-SAM-PRS-MPR10 NOZZLES / -	9'-10'	30	0.79-H	1.75	13	L2.05
SHRUB POP UP								
F 2T H 1T Q	RAIN BIRD / RAIN BIRD / RAIN BIRD	1806-SAM-PRS-MPR15 NOZZLES / 1806-SAM-PRS-MPR15 NOZZLES / 1806-SAM-PRS-MPR15 NOZZLES	13'-15'	30	0.92-Q / 0.1.85-H / 3.70-F	1.83	13	L2.05
ROTOR POP UP								
F 2T H 1T Q	- / RAIN BIRD / -	- / 8005-SS-12 / -	50'-59'	60	- / 10.0-Q / -	0.77	14	L2.05
SHRUB POP UP								
F 2T H 1T Q	RAIN BIRD / RAIN BIRD / -	1806-SAM-PRS-MPR12 NOZZLES / 1806-SAM-PRS-MPR12 NOZZLES / -	11'-12' / 11'-12'	30	0.65-Q / 1.30-H	2.01	13	L2.05
SHRUB POP UP								
F 2T H 1T Q	- / - / -	- / - / -	-	-	-	-	- / -	- / -
DRIP								
	NETAFIM	TLHCVXR5-CS-12 0.53 GPH EMITTER FLOW RATE WITH EMITTER SPACING AT 12" O.C. ROW SPACING TO BE 12"-16" ON CENTER - INSTALL PER MANUFACTURER RECOMMENDATION BURY 4" BELOW FINISH GRADE - SECURE TUBING W/ EPOXY COATED WIRE STAPLES (9" LONG - 5" ON CENTER TO PREVENT TRAVELING/SAGGING OF DRIP TUBING)					9, 10	L2.04 L2.05

DRIP NOTES:

A. SUB-SURFACE IN-LINE DRIP TUBING SHALL BE INSTALLED AT 16" MAXIMUM ROW SPACING, 4"-6" BELOW GRADE FOR SHRUB AREAS. INSTALL TUBING WITH TRIANGULAR SPACED EMITTER LAYOUT, ANCHOR TUBING WITH 6" GALVANIZED WIRE STAKES, MODEL # RAIN BIRD TDS-050 BEND, INSTALLED AT 5 FT. ON CENTER.

B. INSTALL PERIMETER TUBING MAXIMUM 6" FROM PERIMETER EDGE FOR GROUNDCOVER AREAS OR AT FIRST LINE OF SHRUBS. CONTRACTOR SHALL DETERMINE MINIMUM ROW SPACING IN THE FIELD AFTER REVIEW OF PLANT SPACING FOR EACH PLANTER. EACH AND EVERY SHRUB SHALL RECEIVE WATER FROM A MINIMUM OF TWO IN-LINE DRIP EMITTERS. AREAS OF TIGHTLY SPACED GROUNDCOVER OR SANDY SOILS WILL REQUIRE CLOSER ROW SPACING. FOR ANY SINGLE OR DOUBLE ROW TYPE PLANTINGS,INSTALL DRIP TUBING ON BOTH SIDES OF THE SHRUB ROW TO IRRIGATE SHRUBS ON EITHER SIDE. DUE TO SOIL STRATA DIFFERENCES AND POSSIBLE COMPACTION, CONTRACTOR SHALL FIELD VERIFY PRIOR TO STARTING WORK AND BEFORE BACKFILLING, THAT THE FINAL LAYOUT AND ROW SPACING WILL PROVIDE ADEQUATE WATER TO ALL PLANTS.

C. FOR SLOPE AREAS CONTRACTOR SHALL ALWAYS FOLLOW AND ROUTE IN-LINE TUBING PARALLEL TO GRADE. DIRECTIONAL LAYOUT AS SHOWN IN THE PLANS MAY NOT BE EXACTLY ACROSS SLOPE. DRIP HATCH PATTERN ANGLE SHOWN ON PLAN ARE DIAGRAMMATICAL ONLY. ALWAYS INSTALL DRIP LINES ACROSS SLOPE. INSTALL IN-LINE DRIP CHECK VALVE FOR DRIPLINE TUBING WITH 8' OR GREATER ELEVATION CHANGE MINIMUM ONE CHECK VALVE FOR EACH DRIP LINE IN SYSTEM TO PREVENT ANY LOW EMITTER DRAINAGE.

D. FOR ALL IN-LINE DRIP TUBING AREAS ON SLOPE THE CONTRACTOR SHALL BE HELD ACCOUNTABLE FOR CREATING A TRIANGULAR WETTING PATTERN ACROSS ANY SLOPE, OFFSET THE EMITTERS BY HALF THE EMITTER SPACING WHEN INSTALLING TUBING TO CREATE A TRIANGULAR WETTING PATTERN ACROSS THE SLOPE. DO NOT INSTALL TUBING WHERE THE EMITTERS ARE DIRECTLY IN LINE (PERPENDICULAR) WITH EACH OTHER.

E. TYPICAL, GRID LINE/HATCHING SHOWN ON PLANS OF DRIP TUBING SYSTEMS DOES NOT REPRESENT ACTUAL NUMBER OF DRIP TUBING LINES. EXACT LAYOUT/ROWS TO BE DETERMINED ON SITE. INSTALL DRIP TUBING PER MANUFACTURER RECOMMENDATION.

HYDROZONE LEGEND	
H	HIGH WATER USE PLANTS
M	MEDIUM WATER USE PLANTS
L	LOW WATER USE PLANTS

VALVE SEQUENCE	A00	1-1/2"
FLOW (GPM)	00	30
PLANT FACTOR	L	D
HYDRO. S.F.	0000	0.00

VALVE SIZE / OPER. PRESS. / IRR. TYPE / PRECIP. RATE

PIPE SIZING LEGEND		
		SCH 40
PIPE SIZE		GPM
A	3/4"	1 - 6
B	1"	7 - 12
C	1-1/4"	13 - 20
D	1 1/2"	21 - 30
E	2"	31 - 45
F	2 1/2"	46 - 55
G	3"	56 - 70
H	4"	71 - 125

SLEEVE SIZING LEGEND		
		SCH 40
SLEEVE SIZE		PIPE SIZE
2	2"	1/2" TO 1"
3	3"	1 1/4" TO 1 1/2"
4	4"	2"
6	6"	2 1/2" TO 3"

P.O.C. NOTES (BASE BID ONLY)

P.O.C. NOTE NO. 1:
POINT OF CONNECTION SHALL BE DOWNSTREAM OF THE EXISTING WATER METER. VERIFY THE ACTUAL LOCATION, SIZE AND WATER PRESSURE IN THE FIELD PRIOR TO STARTING WORK. IF ANY OF THE P.O.C. INFORMATION SHOWN ON THESE DRAWINGS IS FOUND TO BE DIFFERENT THAN ACTUAL P.O.C. INFORMATION GATHERED IN THE FIELD, ARE NOT REPORTED PRIOR TO START OF CONSTRUCTION, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY AT NO ADDITIONAL COST TO THE SCHOOL DISTRICT.

SITE INFORMATION

PROJECT ADDRESS: 2925 ROSAMOND BLVD. ROSAMOND, CA. 93560	WATER PURVEYOR: BY OTHERS
(EXISTING) METER SIZE	T.B.D.
BOOSTED PRESSURE	N/A
SYSTEM DESIGN PRESSURE	61.0 P.S.I. (BASE BID ONLY)
MAXIMUM SYSTEM DEMAND	25.6 G.P.M.
LANDSCAPE AREA SERVED	FIELD VERIFIED

POINT OF CONNECTION DESIGNATION: A (BASE BID ONLY)	
NAME OF WATER PURVEYOR: EXISTING	
CONTACT NAME: N/A	
PHONE: N/A	
SIZE OF WATER METER: 1-1/2"	
SIZE OF SERVICE LINE: 2"	
STATIC WATER PRESSURE:	
DESIGN WATER PRESSURE: 61.0 P.S.I.	
DESIGNED HIGHEST GPM/GPH FLOW: 25.6	
WORST CASE PRESSURE LOSS CHART	
CONTROLLER/STATION: A16	
POC ELEV:	
GPM: 25.6	
PSI AT POC: T.B.D.	
1-1/2" SUB-WATER METER	***1.40*** **PSI**
1-1/2" BACKFLOW PREVENTER	***13.00*** **PSI**
2" MASTER VALVE	***1.00*** **PSI**
1-1/2" FLOW SENSOR	***1.00*** **PSI**
480 LF OF 2" PVC SCH-40 MAINLINE (0.54)	***2.60*** **PSI**
0 LF OF 1-1/2" PVC SCH-40 MAINLINE	***0.00*** **PSI**
0 LF OF 1-1/4" PVC SCH-40 MAINLINE	***0.00*** **PSI**
0 LF OF 1" PVC SCH-40 MAINLINE	***0.00*** **PSI**
FITTINGS (20% MAINLINE LOSS)	***0.50*** **PSI**
1-1/2" REMOTE CONTROL VALVE	***3.50*** **PSI**
LATERAL LINE LOSSES (FIXED)	***8.00*** **PSI**
ELEVATION CHANGE FROM POC TO HIGHEST OUTLET (+/- FT.)	***0.00*** **PSI**
SPRINKLER DESIGN OPERATING PRESSURE	***30.00*** **PSI**
#1 TOTAL SYSTEM LOSSES:	***61.00*** **PSI**
SUMMARY:	
#2 AVAILABLE STATIC PRESSURE AT POC:	***80.00*** **PSI**
#3 REQUIRED SYSTEM MINIMUM PRESSURE: #1	***61.00*** **PSI**
#4 RESIDUAL PRESSURE: #2 - #3	***19.00*** **PSI**
IF PRESSURE AT POC IS TOO HIGH, ADD THE FOLLOWING:	***0.00***
#5 ADJUST PRESSURE REGULATOR AT POC TO: #1 + 25%	***95.00*** **PSI**
RESIDUAL FROM ADJUSTED PRESSURE: #5 - #3	***34.00*** **PSI**
IF PRESSURE AT POC IS TOO LOW, ADD THE FOLLOWING:	
#5 TOTAL BOOSTED PSI REQ'D AT PUMP: #3 + 25%	***0.00*** **PSI**
RESIDUAL PRESSURE: #5 - #3	***34.00*** **PSI**
PUMP BOOST REQUIRED: #5 - #2	***15.00*** **PSI**

POINT OF CONNECTION DESIGNATION: A (W/ BID ALT. #1)	
NAME OF WATER PURVEYOR: EXISTING	
CONTACT NAME: N/A	
PHONE: N/A	
SIZE OF WATER METER: 1-1/2"	
SIZE OF SERVICE LINE: 2"	
STATIC WATER PRESSURE: 100 P.S.I. (MIN. REQUIRED)	
DESIGN WATER PRESSURE: 92.80 P.S.I.	
DESIGNED HIGHEST GPM/GPH FLOW: 40 (G.P.M.)	
WORST CASE PRESSURE LOSS CHART	
CONTROLLER/STATION: A17	
POC ELEV:	
GPM: 40.0	
PSI AT POC: 100 P.S.I. (MIN. REQUIRED)	
1-1/2" SUB-WATER METER	***3.30*** **PSI**
1-1/2" BACKFLOW PREVENTER	***13.00*** **PSI**
2" MASTER VALVE	***1.00*** **PSI**
1-1/2" FLOW SENSOR	***1.00*** **PSI**
200 LF OF 2" PVC SCH-40 MAINLINE (1.21)	***2.50*** **PSI**
0 LF OF 1-1/2" PVC SCH-40 MAINLINE	***0.00*** **PSI**
0 LF OF 1-1/4" PVC SCH-40 MAINLINE	***0.00*** **PSI**
0 LF OF 1" PVC SCH-40 MAINLINE	***0.00*** **PSI**
FITTINGS (20% MAINLINE LOSS)	***0.50*** **PSI**
1-1/2" REMOTE CONTROL VALVE	***3.50*** **PSI**
LATERAL LINE LOSSES (FIXED)	***8.00*** **PSI**
ELEVATION CHANGE FROM POC TO HIGHEST OUTLET (+/- FT.)	***0.00*** **PSI**
SPRINKLER DESIGN OPERATING PRESSURE	***60.00*** **PSI**
#1 TOTAL SYSTEM LOSSES:	***92.80*** **PSI**
SUMMARY:	
#2 AVAILABLE STATIC PRESSURE AT POC: (MIN. REQUIRED)	***100.00*** **PSI**
#3 REQUIRED SYSTEM MINIMUM PRESSURE: #1	***92.80*** **PSI**
#4 RESIDUAL PRESSURE: #2 - #3	***7.20*** **PSI**
IF PRESSURE AT POC IS TOO HIGH, ADD THE FOLLOWING:	***0.00***
#5 ADJUST PRESSURE REGULATOR AT POC TO: #1 + 25%	***95.00*** **PSI**
RESIDUAL FROM ADJUSTED PRESSURE: #5 - #3	***2.20*** **PSI**
IF PRESSURE AT POC IS TOO LOW, ADD THE FOLLOWING:	
#5 TOTAL BOOSTED PSI REQ'D AT PUMP: #3 + 25%	***0.00*** **PSI**
RESIDUAL PRESSURE: #5 - #3	***2.20*** **PSI**
PUMP BOOST REQUIRED: #5 - #2	***-5.00*** **PSI**

CONSTRUCTION NOTES

1 TYPICAL - P.O.C. TO 2" PRESSURE SUPPLY LINE (PROVIDED UNDER CIVIL SECTION. REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION). EXACT SIZE LOCATION AND ROUTING TO BE DETERMINED ON SITE. CONTRACTOR TO COORDINATE CONNECTION WITH THE GENERAL CONTRACTOR PRIOR TO START OF CONSTRUCTION TO ENSURE PROPER PROVISIONS HAVE BEEN MADE. CONTRACTOR TO VERIFY AND CONFIRM STATIC WATER PRESSURE AT TIME OF INSTALLATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES FOUND BETWEEN ACTUAL PRESSURE READINGS AND MINIMUM DESIGN CRITERIA. FAILURE TO NOTIFY ANY DISCREPANCIES WILL HOLD CONTRACTOR RESPONSIBLE FOR RESOLUTION OF DISCREPANCIES AT NO FURTHER COST TO DISTRICT, INCLUDING ALL LABOR, EQUIPMENT, MATERIALS, ETC.

2 TYPICAL - DENOTES IRRIGATION (2") SUB-METER. EXACT LOCATION AND CONFIGURATION TO BE DETERMINED ON SITE. INSTALL PER MANUFACTURER RECOMMENDATION.

3 TYPICAL - DENOTES (1-1/2") REDUCE PRESSURE BACKFLOW PREVENTION ASSEMBLY. EXACT LOCATION AND CONFIGURATION TO BE DETERMINED. PRESSURE REGULATOR ON ASSEMBLY TO BE SET AT (95 P.S.I.) DELIVERY PRESSURE. BACKFLOW ASSEMBLY TO BE INSTALLED INSIDE STAINLESS STEEL ENCLOSURE AND WINTERIZED, PER DISTRICT STANDARDS.

4 TYPICAL - DENOTES MASTER CONTROL VALVE (LINE SIZE) AND 1-1/2" FLOW SENSOR ASSEMBLY. EXACT LOCATION AND CONFIGURATION SHALL BE DETERMINED ON SITE. INSTALL PER MANUFACTURER RECOMMENDATION. CONTRACTOR TO CONTACT MANUFACTURER FOR PROPER CALIBRATION OF MASTER CONTROL VALVE & FLOW SENSOR FOR HIGH FLOW SHUT-OFF CAPABILITIES. WRITTEN PROOF OF CALIBRATION TESTING AND DOCUMENTATION OF SUCH SHALL BE SUBMITTED PRIOR TO 90 DAY MAINTENANCE PERIOD. SYSTEM SHALL AGAIN BE TESTED AND DISTRICT PERSONNEL INSTRUCTED ON PROPER OPERATION AFTER 90 DAY MAINTENANCE PERIOD.

5 TYPICAL - DENOTES (24) STATION WI-FI /INTERNET CAPABLE, SMART CONTROLLER ASSEMBLY. WALL MOUNT CONTROLLER ASSEMBLY TO BE INSTALLED INSIDE SPECIFIED STAINLESS STEEL CONTROLLER. EXACT LOCATION TO BE DETERMINED ON SITE. CONTRACTOR TO COORDINATE INSTALLATION/CONNECTION TO INTERNET DATA LINE (PROVIDED BY OTHERS), PRIOR TO START OF CONSTRUCTION TO ENSURE PROPER PROVISIONS AND CONNECTIONS ARE OBTAINED. CONTRACTOR TO TEST FOR PROPER COMMUNICATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES FOUND ON SITE.

6 TYPICAL - DENOTES (WIRELESS) RAIN SENSOR ASSEMBLY MOUNTED TO SIDE OF CONTROLLER OR WALL. SENSOR LOCATION SHALL BE INSTALLED IN AREA NOT AFFECTED BY SPRINKLER OVERSPRAY OR OVERHEAD OBSTRUCTIONS. FINAL INSTALLATION LOCATION (IF NOT LOCATED AT CONTROLLER) SHALL BE APPROVED BY LANDSCAPE ARCHITECT. CONTRACTOR TO TEST RAIN/FREEZE SENSOR AND ACHIEVE PROPER COMMUNICATION WITH CONTROLLER. WRITTEN PROOF OF TESTING AND PROPER COMMUNICATION SHALL BE SUBMITTED, PRIOR TO START OF 90 DAY MAINTENANCE PERIOD AND AFTER. NOTIFY ARCHITECT OF ANY DISCREPANCIES FOUND ON SITE.

7 TYPICAL - DENOTES SECTIONAL/SHUT-OFF (BRASS) GATE VALVE (LINE SIZE). EXACT LOCATION TO BE DETERMINED ON SITE. CONTRACTOR TO INSTALL IN PLANTING AREAS WHENEVER POSSIBLE. IF GATE VALVE ASSEMBLY IS INSTALLED IN HARDSCAPE/PAVED AREAS, CONTRACTOR TO INSTALL INSIDE TRAFFIC RATED CONCRETE VALVE BOX WITH CAST-IRON LID. VALVE BOX TYPE SHALL BE DISTRICT APPROVED.

8 TYPICAL - DENOTES INTERNET DATA LINE (PROVIDED BY OTHERS). EXACT LOCATION OF ROUTING AND LOCATION OF CONNECTION POINT TO BE DETERMINED ON SITE. CONTRACTOR TO COORDINATE INSTALLATION AND LOCATION OF CONNECTION, PRIOR TO START OF CONSTRUCTION TO ENSURE PROPER PROVISIONS HAVE BEEN MADE. NOTIFY ARCHITECT OF ANY DISCREPANCIES FOUND.

9 TYPICAL - CONTRACTOR TO INSTALL 3" PVC CONDUIT FROM CONTROLLER TO PLANTING AREA AS SHOWN FOR VALVE CONTROL WIRES. EXACT LOCATION AND ROUTING TO BE DETERMINED ON SITE. CONTRACTOR TO COORDINATE INSTALLATION PRIOR TO START OF CONSTRUCTION TO ENSURE TO MINIMIZE OR AVOID ANY DAMAGE OR DISRUPTION TO SCHEDULING TO ANY OTHER TRADES WORKING ON SITE OR THEIR FINISH WORK.

10 TYPICAL - DENOTES (1" MIN.) PVC CONDUIT FOR COMMUNICATION CABLE/WIRES FROM CONTROLLER TO MASTER CONTROL VALVE & FLOW SENSOR ASSEMBLY. EXACT SIZE, LOCATION AND ROUTING TO BE DETERMINED ON SITE.

11 TYPICAL - ALL VALVES, LINES, EQUIPMENT, SHALL BE INSTALLED INSIDE PLANTING AREAS WHENEVER POSSIBLE. SYMBOLS SHOWN OUT ARE FOR GRAPHIC CLARITY PURPOSES ONLY. EXACT LOCATION AND CONFIGURATION OF EQUIPMENT TO BE DETERMINED ON SITE. FINAL INSTALLATION LOCATION TO BE REVIEWED AND APPROVED BY LANDSCAPE ARCHITECT/IRRIGATION DESIGNER PRIOR TO BACKFILL OF TRENCHING. ANY VALVE BOXES APPROVED TO BE INSTALLED IN HARDSCAPE/PAVED AREAS SHALL BE INSTALLED IN DISTRICT APPROVED TRAFFIC RATED CONCRETE VALVE BOXES WITH CAST-IRON LIDS.

12 TYPICAL - DENOTES PRESSURE COMPENSATING IN-LINE EMITTER TUBING SYSTEMS AT (16" O.C.). DEVIATIONS FROM ORIGINAL LAYOUT IS ACCEPTABLE IN ORDER TO ACHIEVE A MORE UNIFORM & ADEQUATE COVERAGE. INSTALL IRRIGATION EQUIPMENT IN THE LOCATION SHOWN. OBTAIN FINAL APPROVAL OF LOCATION, SPACING AND OVERALL LAYOUT WITH THE LANDSCAPE ARCHITECT/IRRIGATION DESIGNER. FINAL LAYOUT SHALL BE APPROVED BY LANDSCAPE ARCHITECT/IRRIGATION DESIGNER PRIOR TO FINAL BACKFILL OF TUBING. TUBING SPACING SHALL BE BETWEEN 16" O.C. (MIN.) TO 18" O.C. (MAX.). DRIP TUBING TO BE BURIED 4" MIN. AND 6" MAX. BELOW FINISH GRADE. CONTRACTOR TO PROVIDE 9" WIRE STAKES TO PREVENT MOVEMENT AND SURFACING OF TUBING. MULCH COVERING OF TUBING WILL BE DEEMED UNACCEPTABLE. TUBING TO BE INSTALLED BELOW GRADE, AS NOTED.

13 TYPICAL - DENOTES ROOT WATERING SYSTEMS FOR TREES. EXACT LOCATION TO BE DETERMINED ON SITE. REFER TO DETAIL NO. 00 FOR NUMBER OF BUBBLERS PER SIZE OF TREE CHART.

14 TYPICAL - DENOTES SINGLE BUBBLER HEAD (ON FIXED RISER) FOR LARGE SHRUB PLANTING. EXACT LOCATION TO BE DETERMINED ON SITE. INSTALL ASSEMBLY PLUMB TO FINISH GRADE. BUBBLER TO BE INSTALLED ADJACENT TO ROOTBALL AT A MINIMUM HEIGHT 3" AND MAXIMUM HEIGHT OF 6" FROM FINISH GRADE.

15 TYPICAL - DENOTES DRIP SYSTEM OPERATION INDICATOR/MANUAL FLUSH-OUT ASSEMBLY. CONTRACTOR TO INSTALL AT END RUN OF DRIP TUBING SYSTEMS (AS SHOWN). ADDITIONAL ASSEMBLIES MAY BE REQUIRED UPON FURTHER REVIEW OF INSTALLED DRIP TUBING SYSTEMS. EXACT LOCATION TO BE DETERMINED ON SITE. INSTALL PER MANUFACTURER RECOMMENDATION.

16 TYPICAL - REFER TO RETENTION BASIN (TO RIGHT) FOR SYSTEM CONTINUATION.

17 TYPICAL - REFER TO MAIN SYSTEM IRRIGATION PLAN (TO LEFT) FOR SYSTEM CONTINUATION.

P.O.C. NOTES (BID ALTERANTE #1 ONLY)

P.O.C. NOTE NO. 1:
POINT OF CONNECTION SHALL BE DOWNSTREAM OF THE EXISTING WATER METER. VERIFY THE ACTUAL LOCATION, SIZE AND WATER PRESSURE IN THE FIELD PRIOR TO STARTING WORK. IF ANY OF THE P.O.C. INFORMATION SHOWN ON THESE DRAWINGS IS FOUND TO BE DIFFERENT THAN ACTUAL P.O.C. INFORMATION GATHERED IN THE FIELD, ARE NOT REPORTED PRIOR TO START OF CONSTRUCTION, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY AT NO ADDITIONAL COST TO THE SCHOOL DISTRICT.

SITE INFORMATION

PROJECT ADDRESS: 2925 ROSAMOND BLVD. ROSAMOND, CA. 93560	WATER PURVEYOR: BY OTHERS
(EXISTING) METER SIZE	T.B.D.
BOOSTED PRESSURE	N/A
SYSTEM DESIGN PRESSURE	92.80.0 P.S.I. (BID ALTERNATE #1)
MAXIMUM SYSTEM DEMAND	40.0 G.P.M.
LANDSCAPE AREA SERVED	FIELD VERIFIED

SHEET INDEX

- REFER TO SHEET L2.01 FOR IRRIGATION PLAN (BASE BID).
- REFER TO SHEET L2.01 FOR IRRIGATION PLAN (RETENTION BASIN).
- REFER TO SHEET L2.01 FOR IRRIGATION PLAN (BID ALTERNATE NO. 1).
- REFER TO SHEET L2.02 & L2.03 FOR LEGENDS & NOTES PLAN.
- REFER TO SHEET L2.04, L2.05 & L2.06 FOR IRRIGATION DETAILS PLAN.

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AGENCY

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DIV. OF THE STATE ARCHITECT
APP: 03-122536 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/24/2023

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An Employee Owned Corporation

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C-26053
Ren. Date 08/31/2023
STATE OF CALIFORNIA

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MARK D. BEALL
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STATE OF CALIFORNIA

Drawn by

Checked by

Revisions

No.	Date	Description

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

IRRIGATION NOTES AND LEGENDS

Job No.
2990

Date
01.30.2023

L2.02

IRRIGATION INSTALLATION NOTES

1. THE CONTRACTOR SHALL OBTAIN AND PAY ANY AND ALL PERMITS AND ALL INSPECTIONS REQUIRED, INCLUDING BUT NOT LIMITED TO:
   A. CITY OF ROSAMOND PLUMBING PERMIT.
   B. BACKFLOW PREVENTION ASSEMBLY CERTIFICATION.
2. THE MANUFACTURER'S RECOMMENDATIONS AND DETAILED DRAWINGS SHALL BE FOLLOWED IN ALL CASES WHERE THE MANUFACTURER'S OF ARTICLE USED IN THIS INSTALLATION FURNISH'S DIRECTION CONCERNING POINTS NOT SHOWN IN THE DRAWINGS AND INSTALLATION.
3. A COMPLETE MATERIAL LIST SHALL BE SUBMITTED PRIOR TO PERFORMING ANY WORK FOR ANY ITEMS THAT ARE REQUESTED TO BE SUBSTITUTED . MATERIAL LIST SHALL INCLUDE THE MANUFACTURER, MODEL NUMBER AND DESCRIPTION OF ALL MATERIALS AND EQUIPMENT TO BE USED. EQUIPMENT OR MATERIALS INSTALLED OR FURNISHED WITHOUT PRIOR APPROVAL OF THE DESIGNER/LANDSCAPE ARCHITECT MAY BE REJECTED AND THE CONTRACTOR REQUIRED TO REMOVE SUCH MATERIALS FROM THE SITE AT HIS/HER EXPENSE.
4. THE CONTRACTOR SHALL BE RESPONSIBLE AND LIABLE FOR ANY AND ALL DAMAGES TO OPERATIONS OR WORK OF OTHER CONTRACTORS. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ACTIVITIES WITH ALL AGENCIES AND OTHER TRADES ON SITE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE AND LIABLE FOR ANY ENCROACHMENT INTO ADJACENT PROPERTY, R.O.W.'S, EASEMENTS, SETBACKS OR ANY OTHER LEGAL PROPERTY RESTRICTIONS EITHER MARKED OR UNMARKED.
6. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE HIMSELF/HERSELF WITH ALL UNDERGROUND UTILITIES. CONTRACTOR SHALL REPAIR OR REPLACE, AT NO ADDITIONAL COST TO THE OWNER, ANY DAMAGES TO UNDERGROUND UTILITIES THAT MAY OCCUR.
7. THE CONTRACTOR SHALL OBTAIN THE PERTINENT ENGINEERING PLANS BEFORE COMMENCEMENT OF WORK.
8. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS SHOWN ON PLANS AT THE SITE PRIOR TO COMMENCEMENT OF ANY WORK. ALL DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO PROJECT DESIGNER/LANDSCAPE ARCHITECT FOR DIRECTIONS ON HOW TO PROCEED. ANY CONTINUATION OF WORK IS AT THE CONTRACTOR'S RISK AND EXPENSE.
9. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WITH WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THESE PLANS ARE APPROXIMATE ONLY. ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE PROJECT DESIGNER/LANDSCAPE ARCHITECT FOR DIRECTION ON HOW TO PROCEED.
10. PRIOR TO START OF CONSTRUCTION, A CONFERENCE SHALL BE HELD WITH THE PROJECT REPRESENTATIVE AND CONTRACTOR , REGARDING GENERAL REQUIREMENTS OF THIS WORK.
11. INSTALL ALL IRRIGATION COMPONENTS ACCORDING TO LOCAL CODES AND ORDINANCES.
12. THE IRRIGATION WATER METER IS TO BE PROVIDED BY THE OWNER UNLESS SHOWN OTHERWISE ON THE PLANS. CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ALL IRRIGATION EQUIPMENT DOWNSTREAM OF THE POINT OF CONNECTION (P.O.C.).
13. ALL IRRIGATION EQUIPMENT NOT OTHERWISE DETAILED OR SPECIFIED SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
14. THE CONTRACTOR SHALL NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS (INCLUDING EXISTING AND/OR NEW PLANT MATERIAL), GRADE DIFFERENCES OR DIFFERENCES IN THE AREA'S DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE DESIGN. SUCH OBSTRUCTIONS OR DIFFERENCES SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGNER/LANDSCAPE ARCHITECT. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.
15. THE WORK SHOWN ON THESE PLANS ARE DIAGRAMMATIC, ALL ITEMS, I.E. CONTROLLERS, VALVES, MAIN LINES, SLEEVES, WIRES, IRRIGATION HEADS, ETC. ARE SHOWN IN THEIR APPROXIMATE LOCATIONS ONLY. DO NOT SCALE DIMENSIONS. DETAIL DRAWINGS MAY CLARIFY LOCATIONS OF SOME ITEMS. THE CONTRACTOR SHALL NOT LOCATE ANY ITEMS WHERE IT IS OBVIOUS THAT THEY ARE IN CONFLICT WITH UNDERGROUND UTILITIES, STRUCTURES, OTHER IMPROVEMENTS, OR VEHICULAR OR PEDESTRIAN SAFETY CONSIDERATIONS.
16. CONTROLLER LOCATIONS ARE APPROXIMATE. FINAL LOCATION OF THE AUTOMATIC CONTROLLER AND THE BACKFLOW DEVICE SHALL BE APPROVED BY THE DESIGNER/LANDSCAPE ARCHITECT PRIOR TO FINAL INSTALLATION.
17. ALL PRESSURE SUPPLY LINES SHALL BE TESTED FOR A MINIMUM OF 3 HOURS UNDER A HYDROSTATIC PRESSURE OF 150 POUNDS PER SQUARE INCH AND PROVEN WATERTIGHT. CONTRACTOR SHALL PROVIDE ALL EQUIPMENT FOR HYDROSTATIC TESTS. HYDROSTATIC TESTS SHALL BE PERFORMED IN THE PRESENCE OF THE DESIGNER/LANDSCAPE ARCHITECT, OR IF APPROVED BY DESIGNER/LANDSCAPE ARCHITECT, CONTRACTOR MAY SUBMIT BY EMAIL DIGITAL PHOTOGRAPHS OF THE PRESSURE GAUGE TO THE DESIGNER/LANDSCAPE ARCHITECT AT BEGINNING AND END OF TEST PERIOD. CONTRACTOR TO SUBMIT WRITTEN PROOF TO SITE SUPERINTENDENT THAT TESTS HAVE BEEN CONDUCTED.
18. 120 VOLT INDEPENDENT ELECTRICAL POWER OUTLET AT THE AUTOMATIC CONTROLLER LOCATION SHALL BE PROVIDED PER THE ELECTRICAL ENGINEER'S PLANS AND SPECIFICATIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ELECTRICAL SERVICE WITH THE GENERAL CONTRACTOR AND TO MAKE THE FINAL CONNECTION FROM THE ELECTRICAL SERVICE TO THE AUTOMATIC CONTROLLER.
19. ALL LOCAL, MUNICIPAL AND STATE LAWS RULES AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR.
20. BACKFLOW DEVICE SHALL BE INSTALLED IN GROUND COVER AREA WHEREVER POSSIBLE, UNLESS OTHERWISE NOTED ON PLANS.FINAL LOCATION SHALL BE DETERMINED BY THE CLIENT'S AUTHORIZED REPRESENTATIVE AND MAY VARY FROM THAT INDICATED ON THE DRAWING.
21. QUICK COUPLER VALVES, REMOTE CONTROL VALVES AND SHUT-OFF VALVES SHALL BE INSTALLED IN GROUND COVER/SHRUB AREAS WHEREVER POSSIBLE.
22. PIPING AND WIRE CONDUIT PENETRATIONS THROUGH WALLS AND INSTALLATION OF EQUIPMENT UNDER PAVING SHALL BE INSTALLED IN SCHEDULE 40 PVC SLEEVES, AS CALLED OUT ON PLANS, OR AS PER LOCAL CODES AND MUST BE COORDINATED WITH THE GENERAL CONTRACTOR AND CONTRACTORS OF ALL VARIOUS TRADES THAT MAY BE INVOLVED TO ELIMINATE PROBLEMS THAT MAY ARISE FROM INACCESSIBILITY OR DAMAGE TO ANOTHER TRADE'S FINISH WORK. PIPING AND WIRE CONDUIT PENETRATIONS THROUGH EXISTING WALLS SHALL BE CORE DRILLED AND SLEEVED PER ABOVE, UNLESS AN EXISTING SLEEVE IS AVAILABLE FOR RE-USE WHICH WILL NOT SIGNIFICANTLY AFFECT THE SYSTEM DESIGN. ALL PENETRATIONS SHALL BE WATERFPROOFED USING APPROVED METHODS.
23. USE CHECK VALVES AS REQUIRED TO PREVENT LOW HEAD DRAINAGE.
24. THE CONTRACTOR SHALL INSTALL K.B.I. SERIES ANTI-DRAIN VALVES ON ALL LATERAL LINES IN AREAS WHERE SLOPE OF GRADE EXCEEDS 4:1, WHERE POST VALVE SHUT-OFF DRAINING OF THE IRRIGATION OCCURS, OR AS DIRECTED BY THE CLIENTS AUTHORIZED REPRESENTATIVE.
25. THE CONTRACTOR SHALL ONLY APPLY SUFFICIENT WATER TO PROMOTE HEALTHY GROWTH OF PLANT MATERIAL. AT NO TIME SHALL THE CONTRACTOR APPLY WATER AT A RATE OF FREQUENCY WHICH CAUSES RUNOFF OR OVER SATURATION OF THE SOIL.
26. THE CONTRACTOR SHALL FLUSH AND ADJUST ALL SPRINKLER HEADS FOR OPTIMUM PERFORMANCE AND TO PREVENT OVERSPRAY ONTO ADJACENT PAVING, WALLS OR OTHER HARDSCAPE ELEMENTS TO THE EXTENT POSSIBLE. THIS SHALL INCLUDE SELECTING THE BEST DEGREE OF ARC TO FIT THE CURRENT SITE CONDITIONS AND ADJUSTING THE FLOW CONTROL AT EACH VALVE TO OBTAIN THE OPTIMUM OPERATING FLOW FOR EACH SYSTEM.
27. WHEN RADIUS OF SPRINKLER HEADS REQUIRED FOR PROPER COVERAGE IS LESS THAN RADIUS SHOWN ON PLAN, THE CONTRACTOR SHALL EQUIP SPRINKLER HEAD WITH A PRESSURE COMPENSATING SCREEN (PCS) FOR LOW FLOW AND RADIUS CONTROL.
28. USE ADJUSTABLE ARC NOZZLES FOR ALL HEADS LOCATED IN AREAS WHERE A STANDARD ARC PATTERN SPRAYS OVER ONTO ADJACENT PAVING, WALLS OR OTHER HARDSCAPE ELEMENTS. ADJUSTABLE ARC NOZZLE SHOULD HAVE THE SAME RADIUS OF THROW AS THE NOZZLE BEING REPLACED.
29. NO OVERSPRAY OR LOW HEAD DRAINAGE SHALL BE ALLOWED.
30. WHEN VERTICAL OBSTRUCTIONS (LIGHT POLES, FIRE HYDRANTS, TREES, ETC.) INTERFERE WITH THE SPRAY PATTERN OF THE SPRINKLER HEADS SO AS TO PREVENT PROPER COVERAGE, THE CONTRACTOR SHALL FIELD ADJUST THE SPRINKLER SYSTEM BY INSTALLING A QUARTER CIRCLE OR HALF CIRCLE SPRINKLER HEAD ON EACH SIDE OF THE OBSTRUCTION SO AS TO PROVIDE PROPER COVERAGE . ALL ADJUSTMENTS SHALL BE MADE AT NO ADDITIONAL COST TO THE CLIENT.
31. PIPE SIZES SHALL CONFORM TO THOSE SHOWN ON PLANS. NO SUBSTITUTIONS OF SMALLER PIPE SIZES ARE PERMITTED, BUT SUBSTITUTIONS OF LARGER SIZES MAY BE APPROVED. ALL DAMAGED AND REJECTED PIPE SHALL BE REMOVED FROM THE SITE IMMEDIATELY UPON REJECTION.
32. ALL ELECTRICAL CONTROL WIRE SHALL BE DIRECT BURIAL #14 GAUGE APPROVED IN AN 18" DEEP TRENCH INSTALLED UNDER THE MAINLINE PIPE. WIRE CONNECTORS SHALL BE DRI-SPLICE OR APPROVED EQUAL ONLY. COLORS FOR CONTROL WIRES SHALL BE AS FOLLOWS:
   A. COMMON WIRE - WHITE (FOR MULTIPLE CONTROLLERS USE DIFFERENT STRIP COLOR PER CONTROLLER)
   B. HOT WIRE - BLACK EXTRA COMMON WIRES - WHITE WITH ORANGE STRIPE - MINIMUM (1) ONE TO EACH LEG OF MAINLINE FROM P.O.C. PER CONTROLLER (DIFFERENT STRIPE COLOR PER CONTROLLER)
   C. EXTRA HOT WIRES, MINIMUM (1) ONE EXTRA HOT WIRE FOR EVERY (5) FIVE WIRES PLUS (3) THREE EXTRA HOT WIRES RUN TO EACH END OF MAINLINE BACK TO THE CONTROLLER - LABEL ALL SPARE WIRES AT BOTH ENDS "SPARE".
   D. MASTER CONTROL VALVE - BLUE w/ WHITE STRIPE / WHITE w/ BLUE STRIPE.
   E. FLOW SENSOR - RED w/ WHITE STRIPE / RED w/ BLUE STRIPE.
33. ALL AUTOMATIC CONTROLLER PROGRAMS MUST BE SET TO OPERATE BETWEEN THE HOURS OF 10 P.M. AND 6 A.M.
34. THE ENTIRE SPRINKLER SYSTEM SHALL BE GUARANTEED BY THE CONTRACTOR AS TO MATERIAL AND WORKMANSHIP, INCLUDING THE SETTLING OF BACKFILLED AREAS AND TRENCHES FOR A PERIOD OF ONE YEAR FOLLOWING THE DATE OF FINAL ACCEPTANCE OF THE WORK. SHOULD ANY OPERATION DIFFICULTIES IN CONNECTION WITH THE SPRINKLER SYSTEM DEVELOP WITHIN THE SPECIFIED GUARANTEE PERIOD, WHICH IN THE OPINION OF THE CLIENT MAY BE DUE TO INFERIOR MATERIAL AND/OR WORKMANSHIP, SAID DIFFICULTIES SHALL BE IMMEDIATELY CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE CLIENT AT NO ADDITION COST.
35. THE CONTRACTOR SHALL AT ALL TIMES PROTECT HIS WORK FROM DAMAGE AND THEFT AND REPLACE ALL DAMAGED OR STOLEN PARTS AT HIS/HER EXPENSE UNTIL THE WORK IS ACCEPTED IN WRITING BY THE CLIENT.
36. THE IRRIGATION SYSTEM DESIGN IS BASED ON THE MINIMUM OPERATING PRESSURE AND THE MAXIMUM FLOW DEMAND SHOWN ON THE IRRIGATION DRAWINGS AT EACH POINT OF CONNECTION. THE CONTRACTOR SHALL VERIFY WATER PRESSURE IN THE FIELD PRIOR TO CONSTRUCTION TO DETERMINE IF IT IS SUFFICIENT TO OPERATE SYSTEMS AS DESIGNED. REPORT ANY DIFFERENCE BETWEEN THE WATER PRESSURE INDICATED ON THE DRAWINGS AND THE ACTUAL PRESSURE READING AT THE IRRIGATION POINT OF CONNECTION TO THE PROJECT /DESIGNER/LANDSCAPE ARCHITECT. IN THE EVENT PRESSURE DIFFERENCES ARE NOT REPORTED PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY AT NO ADDITIONAL COST TO THE CLIENT, INCLUDING LABOR.
37. AFTER INSTALLATION OF THE IRRIGATION SYSTEMS IS COMPLETED, THE CONTRACTOR SHALL PERFORM A COVERAGE TEST IN THE PRESENCE OF THE DESIGNER/LANDSCAPE ARCHITECT TO DETERMINE IF THE IRRIGATION COVERAGE FOR PLANTING AREAS IS ADEQUATE AND COMPLETE. FURNISH ALL MATERIALS AND PERFORM ALL WORK REQUIRED TO CORRECT ANY INADEQUACIES OF COVERAGE DUE TO DEVIATIONS FROM THE PLANS OR BECAUSE DISCREPANCIES BETWEEN THE PLANS AND ACTUAL FIELD CONDITIONS WERE NOT BROUGHT TO THE ATTENTION OF THE DESIGNER/LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

EXISTING IRRIGATION NOTES

1. THE CONTRACTOR MUST FAMILIARIZE HIMSELF/HERSELF WITH THE EXISTING IRRIGATION AND PLANTING ON PROPERTY. ANY DAMAGE OR ADJUSTMENTS REQUIRED INCLUDING REPLACING OR RELOCATING IRRIGATION LINES, HEADS, VALVES, WIRES OR ANY UTILITY THAT OCCURS ON THE PARCEL DUE TO THE CONSTRUCTION OF THIS PROJECT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER. THE OWNER'S REPRESENTATIVE MUST REVIEW ANY REQUIRED MODIFICATIONS TO THESE AREAS PRIOR TO COMMENCING WORK. THE CONTRACTOR MUST NOTIFY THE OWNER'S AUTHORIZED REPRESENTATIVE OF THESE CONDITIONS OR ANY DISCREPANCIES PRIOR TO COMMENCING WORK.
2. CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS . PROPERTY LINES, DIMENSIONS, ETC. PRIOR TO COMMENCING WORK. ALL EXISTING IRRIGATION SYSTEMS SHALL BE VERIFIED IN THE FIELD AT START OF CONSTRUCTION. ALL EXISTING MAINLINES, RCV'S, BACKFLOW DEVICES, CONTROLLERS, METERS, SERVICE LINES, ETC. SHALL BE VERIFIED IN FIELD . ALL EXISTING IRRIGATION EQUIPMENT SHALL BE CLEARLY INDICATED INCLUDING SIZES AND MODEL NUMBERS TO SCALE ON AN ACCURATE BASE DRAWING AND SUBMITTED AS A SHOP DRAWING. SAID SHOP DRAWINGS SHALL BE SUBMITTED TO THE DESIGNER/LANDSCAPE ARCHITECT, AND OWNER'S AUTHORIZED REPRESENTATIVE FOR REVIEW AND APPROVAL. NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY IF ANY DISCREPANCIES ARE FOUND. NO WORK SHALL PROCEED WITHOUT APPROVAL OF SAID SHOP DRAWINGS.
3. ALL EQUIPMENT AND PIPE ROUTING SHALL BE STAKED IN FIELD FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. ALL LAYOUT SHALL BE AS APPROVED BY DESIGNER/LANDSCAPE ARCHITECT AND OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION. NO EQUIPMENT SHALL BE INSTALLED WITHOUT APPROVAL OF LAYOUT.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE INSTALLATION OF PROPOSED IRRIGATION EQUIPMENT AND RELATED EQUIPMENT, INCLUDING BUT NOT LIMITED R.C.V. CONTROL WIRES, ELECTRICAL WIRES, CONDUITS, REMOTE CONTROL VALVES, ETC. ALL LAYOUT AND LOCATIONS SHALL BE CONFIRMED WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCING WORK.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE REMOVAL AND DISPOSAL OF ALL IRRIGATION EQUIPMENT AFFECTED BY THE PROPOSED IRRIGATION IMPROVEMENTS. CONTRACTOR SHALL VERIFY ALL EQUIPMENT TO BE REMOVED AND DISPOSED OF IN FIELD PRIOR TO COMMENCING WORK.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR/MODIFICATION OF ALL ADJACENT IRRIGATION SYSTEM EQUIPMENT THAT IS AFFECTED BY PROPOSED IRRIGATION IMPROVEMENTS. CONTRACTOR SHALL REPAIR SAID SYSTEMS TO A LIKE NEW MANNER, PROVIDING COMPLETE 100% HEAD TO HEAD COVERAGE IN ALL AREAS WITH SYSTEM LAYOUT AS APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE. CONTRACTOR SHALL CONFIRM ALL AREAS REQUIRING MODIFICATION WITH THE OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO BIDDING WORK AND PRIOR TO COMMENCING WORK.
7. CONTRACTOR SHALL ADJUST AND CAP OFF EXISTING ADJACENT IRRIGATION SYSTEM AS REQUIRED. SYSTEM SHALL PROVIDE COMPLETE 100% HEAD TO HEAD COVERAGE IN ALL AREAS AS APPROVED BY OWNER'S AUTHORIZED REPRESENTATIVE. ALL LAYOUT SHALL BE CONFIRMED WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCING WORK.
8. CONTRACTOR REFER TO CORRESPONDING ON-SITE WATER AND SEWER PLANS FOR UNDERLYING WATERLINES, EASEMENTS, AND OTHER RELATED EQUIPMENT . CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS IN FIELD WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCING WORK.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REPAIRS TO EXISTING IRRIGATION, LANDSCAPE AND HARDSCAPE DAMAGED BY ROUTING NEW WIRES TO CONTROLLER AT NO ADDITIONAL COST TO THE DISTRICT.
10. CONTRACTOR SHALL MEET WITH THE OWNER PRIOR TO BEGINNING DEMOLITION OR ANY OTHER WORK, AND WALK SITE TO LOCATE EXISTING CONTROLLER AND LINES AND OTHER IRRIGATION TO BE PROTECTED IN PLACE.
11. CONTRACTOR SHALL PROVIDE FOR THE IRRIGATION OF EXISTING PLANT MATERIAL THROUGHOUT THE CONSTRUCTION PROCESS. ANY DAMAGE DUE TO TO CONSTRUCTION SHALL BE REPAIRED IMMEDIATELY TO PREVENT ANY LAPSE IN IRRIGATION OF THE EXISTING PLANT MATERIAL. ANY PLANT MATERIAL AND/OR IRRIGATION DAMAGED AS PART OF CONSTRUCTION SHALL BE REPAIRED/REPLACED TO A LIKE NEW CONDITION AS PART OF CONTRACT.
12. ANY EXISTING CONTROL VALVES CONNECTED TO THE EXISTING CONTROLLER SHALL BE RECONNECTED TO THE EXISTING CONTROLLER. CONFIRM PROPER CONTROLLER OPERATION AND INSTALLATION WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCING WORK AND UPON COMPLETION OF WORK.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE ADJUSTMENTS/MODIFICATION OF EXISTING IRRIGATION SYSTEMS WITHIN THIS AND OTHER AREAS AFFECTED BY THE PROPOSED IMPROVEMENTS. ALL LAYOUT SHALL BE CONFIRMED WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCING WORK.
14. NO DISRUPTION OF THE EXISTING IRRIGATION SYSTEMS WATERING WILL BE ALLOWED DURING CONSTRUCTION. ALL ADJACENT SYSTEMS SHALL MAINTAIN AUTOMATIC PROGRAMMED WATERING SCHEDULES THROUGHOUT CONSTRUCTION.
15. CONTRACTOR SHALL OBTAIN EXISTING IRRIGATION AS-BUILT RECORD DRAWINGS FOR ADJACENT IRRIGATED AREAS PRIOR TO STARTING WORK. ALL EXISTING IRRIGATION EQUIPMENT LOCATION, SIZES AND CONDITIONS SHALL BE VERIFIED IN FIELD WITH OWNER'S AUTHORIZED REPRESENTATIVE AT START OF WORK.
16. WHENEVER ROOTS OF EXISTING TREES ARE ENCOUNTERED DURING TRENCHING OPERATIONS, THE CONTRACTOR SHALL REROUTE MAINLINE TRENCHES. DO NOT CUT ROOTS 1" IN DIAMETER . ALL CUTS SHALL BE A CLEAN SHARP CUT. IF TRENCHING IS REQUIRED, THE CONTRACTOR SHALL HAND DIG THE TRENCHES TAKING CARE NOT TO DAMAGE ROOTS. NO MECHANICAL TRENCHING WITHIN THE DRIPLINE OF THE EXISTING TREE WILL BE ALLOWED. CONTRACTOR TO PROTECT ALL ROOTS EXPOSED TO SUNLIGHT WITH MOIST BURLAP UNTIL COVERED WITH SOIL.

SHEET INDEX

- REFER TO SHEET L2.01 FOR IRRIGATION PLAN (BASE BID).
- REFER TO SHEET L2.01 FOR IRRIGATION PLAN (RETENTION BASIN).
- REFER TO SHEET L2.01 FOR IRRIGATION PLAN (BID ALTERNATE NO. 1).
- REFER TO SHEET L2.02 & L2.03 FOR LEGENDS & NOTES PLAN.
- REFER TO SHEET L2.04, L2.05 & L2.06 FOR IRRIGATION DETAILS PLAN.

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SS ☑ FLS ☑ ACS ☑
DATE: 03/24/2023

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An Employee Owned Corporation

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LICENSED LANDSCAPE ARCHITECT
MARK D. BEALL
CA NO. 3640
REN. 04/30/23
STATE OF CALIFORNIA

Drawn by

Checked by

Revisions

No.	Date	Description

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy before the contract. These plans & the specifications are instruments of service prepared for a specific use. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Flewelling & Moody.

SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

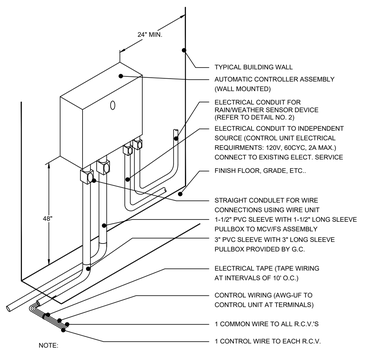
2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

IRRIGATION NOTES

Job No. 2990

Date 01.30.2023

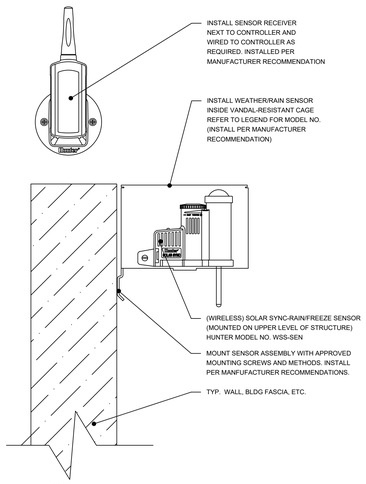
L2.03



NOTE:

1. COMMON WIRE TO BE WHITE AND CONTROL WIRE TO BE BLACK IN COLOR
2. NO SPLICES SHALL BE MADE BETWEEN CONTROLLER AND REMOTE CONTROL VALVE. UNLESS OTHERWISE NOTED ON DRAWING.
3. CONTROL WIRING SEQUENCE CORRESPONDS TO OPERATING SEQUENCE OF REMOTE VALVES & AUTOMATIC CONTROLLER UNIT STATION CONNECTION (SEE IRRIGATION PLAN FOR CORRECT VALVE SEQUENCE)
4. INSTALL RAIN/WEATHER SENSOR IN OPEN (DISCREET) AREA. EXACT LOCATION TO BE DETERMINED INSTALLED PER MANUFACTURER RECOMMENDATION. CONTRACTOR TO ENSURE THERE ARE NO OVERHEAD OBSTRUCTIONS. EXACT LOCATION TO BE DETERMINED ON SITE.
5. CONTRACTOR SHALL COORDINATE AS NECESSARY, REQUIRED LOW VOLTAGE WIRE CONDUIT ON-STRUCTURE WITH PLUMBING CONTRACTOR, PRIOR TO START OF CONSTRUCTION, TO ENSURE PROPER SERVICE IS PROVIDED TO ALL VALVE LOCATIONS. CONDUIT PROVIDED UNDER MECH. SECT.

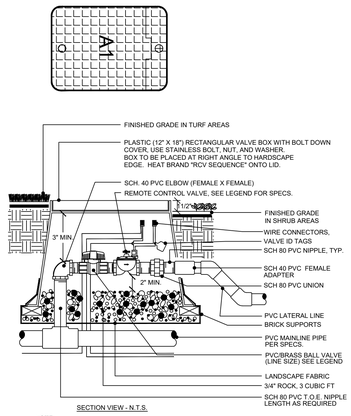
1 TYPICAL AUTOMATIC CONTROLLER ASSEMBLY
NO SCALE (WALL MOUNT TYPE) RIC-2022



NOTE:

1. INSTALL SENSOR AT A DISCREET LOCATION WITH NO OVERHEAD OBSTRUCTIONS.
2. IRRIGATION CONTRACTOR SHALL COORDINATE INSTALLATION WITH LANDSCAPE ARCHITECT FOR APPROVED LOCATION AND TO ENSURE PROPER INSTALLATION.
3. CONTRACTOR TO COORDINATE INSTALLATION PRIOR TO START OF CONSTRUCTION WHEN CONDUIT IS BEING ROUTED THROUGH STRUCTURE WITH APPROPRIATE TRADE, TO ENSURE PROPER LOCATION OF STUB-OUT.

2 TYPICAL RAIN/FREEZE SENSOR ASSEMBLY
NO SCALE (HUNTER WSS-SEN (WIRELESS) SERIES) RIC-2022

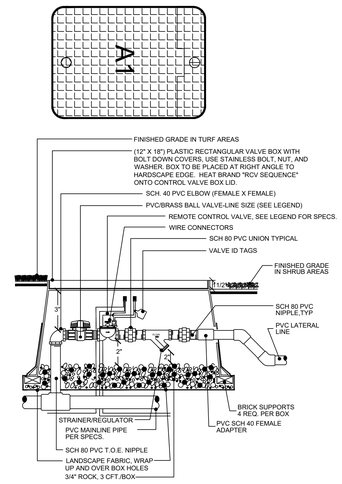


SECTION VIEW - N.T.S.

NOTE:

1. INSTALL CONTROL VALVES A MINIMUM OF 12" APART IN SHRUB AREAS UNLESS OTHERWISE NOTED.
2. REFER TO DETAIL NO. 17 FOR TYPICAL VALVE BOX INSTALLATION LAYOUT.

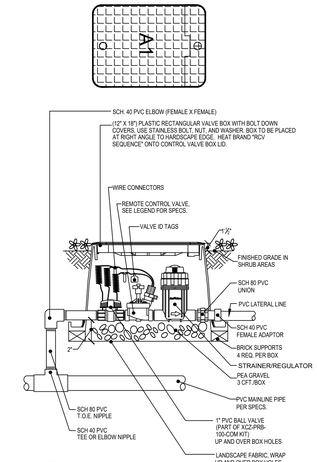
3 TYPICAL REMOTE CONTROL VALVE ASSEMBLY
NO SCALE RIC-2022



NOTE:

1. INSTALL CONTROL VALVES A MINIMUM OF 12" APART IN SHRUB AREAS UNLESS OTHERWISE NOTED.
2. REFER TO DETAIL NO. 17 FOR TYPICAL VALVE BOX INSTALLATION LAYOUT.

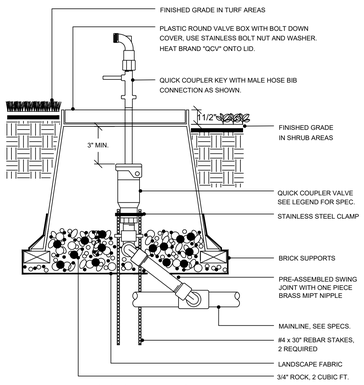
4 TYPICAL (DRIP) REMOTE CONTROL VALVE ASSEMBLY
NO SCALE (RAIN BIRD XCZ-075-PRF) 3/4" RIC-2022



NOTE:

1. INSTALL CONTROL VALVES A MINIMUM OF 12" APART IN SHRUB AREAS UNLESS OTHERWISE NOTED.
2. REFER TO DETAIL NO. 17 FOR TYPICAL VALVE BOX INSTALLATION LAYOUT.

5 TYPICAL (DRIP) REMOTE CONTROL VALVE ASSEMBLY
NO SCALE (RAIN BIRD XCZ-100-PRB-COM) 1" RIC-2022

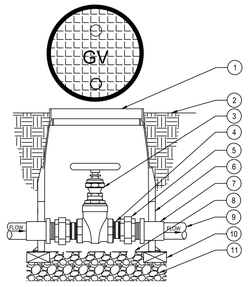


SECTION VIEW - N.T.S.

NOTE:

1. USE TEFLON TAPE ON ALL THREADED FITTINGS TYPICAL.
2. QUICK COUPLER KEY MUST CLEAR VALVE BOX.
3. ALL BOXES SHALL BE GREEN IN COLOR FOR ALL APPLICATIONS UNLESS OTHERWISE NOTED AND APPROVED.

6 TYPICAL QUICK COUPLING VALVE ASSEMBLY
NO SCALE RIC-2022

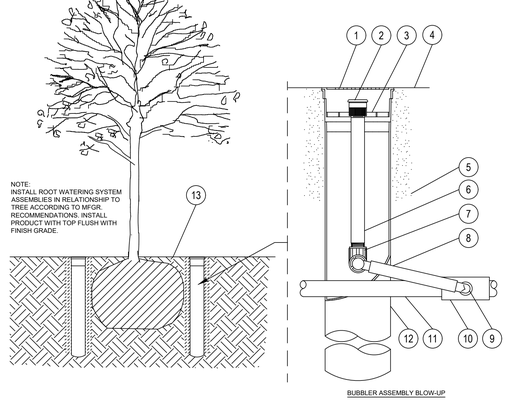


1. ROUND VALVE BOX W/BOLT-DOWN COVER. HEAT BRAND "GV" ON VALVE BOX LID IN 2" HIGH CHARACTERS.
2. FINISH GRADE
3. GATE VALVE - LINE SIZE
4. BRASS NIPPLE
5. BRASS UNION
6. VALVE BOX EXTENSION (AS REQUIRED)
7. PVC SCH 80 ADAPTOR
8. 1/4"SQ 16GA. GALV. WELDED WIRE MESH
9. PVC MAINLINE
10. THREE (3) BRICK SUPPORTS
11. 3/4" GRAVEL (12" DEEP)

NOTES:

1. ALL VALVE BOXES TO BE PLACED IN SHRUB AREAS WHERE POSSIBLE. SET VALVE BOX 1/2" ABOVE FINISH GRADE IN LAWN AREAS, 1" IN PLANTING AREAS AND 12" MIN FROM EDGE OF HARDSCAPE.
2. CLOSED NIPPLES OR BUSHINGS ARE NOT ALLOWED.
3. USE TEFLON TAPE ON ALL THREADED PIPE. 1-1/2" WRAPS.
4. NO GALVANIZED NIPPLES SHALL BE USED.

7 TYPICAL GATE VALVE ASSEMBLY (1" TO 2")
NO SCALE RIC-2022



NOTE:
INSTALL ROOT WATERING SYSTEM ASSEMBLIES IN RELATIONSHIP TO TREE ACCORDING TO MFGR. RECOMMENDATIONS. INSTALL PRODUCT WITH TOP FLUSH WITH FINISH GRADE.

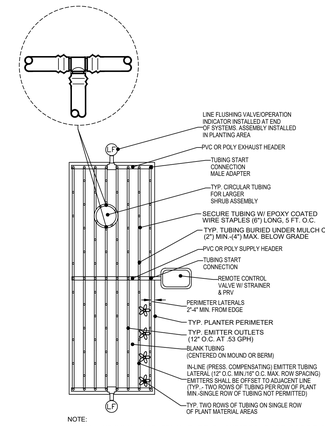
BUBBLER ASSEMBLY BLOW-UP

1. 4-INCH GRATE (INCLUDED)
2. BUBBLER: RAIN BIRD 1401 0.25 GPM
3. ROOT WATERING SYSTEM: RAIN BIRD RWS-B-C-1401 (INCLUDES 1401 0.25 GPM BUBBLER WITH RISER, GRATE, SWING ASSEMBLY, 1/2" MALE NPT INLET, AND BASKET CANISTER)
4. FINISH GRADE
5. OPTIONAL PEA GRAVEL OR RWS SAND SOCK (RWS-SOCK) FOR SANDY SOILS
6. 1/2-INCH PVC SCH 80 NIPPLE
7. 1/2-INCH 90-DEGREE ELBOW
8. 12-INCH SWING ASSEMBLY (INCLUDED)
9. 1/2-INCH MALE NPT INLET
10. PVC SCH 40 TEE OR EL
11. LATERAL PIPE
12. 4-INCH BASKET WEAVE CANISTER
13. FINISH GRADE

BUBBLERS PER TREE (REFER TO LANDSCAPE PLANS FOR TREE SIZES)

1. (2) 24" BOX TREES: 2 BUBBLERS EACH (UNLESS OTHERWISE NOTED ON PLAN)
2. (3) 36" BOX TREES: 3 BUBBLERS EACH (UNLESS OTHERWISE NOTED ON PLAN)
3. (4) 48" BOX TREES: 4 BUBBLERS EACH (UNLESS OTHERWISE NOTED ON PLAN)

8 TYPICAL ROOT WATERING SYSTEM FOR TREES
NO SCALE (2 ASSEMBLIES PER TREE-MIN.) RIC-2022



NOTE:

1. INSTALL AIR / VACUUM RELIEF VALVE AT THE HIGHEST POINT OF THE DRIP TUBING SYSTEM. FLUSH ALL LINES PRIOR TO INSTALLATION OF VALVE.
2. ALL BOXES SHALL BE GREEN IN COLOR FOR ALL APPLICATIONS UNLESS OTHERWISE NOTED AND APPROVED.
3. DRIP TUBING LINES SHALL BE BURIED A MIN. OF 4" BELOW FINISH GRADE, IN ADDITION TO MULCH COVER.

9 TYPICAL DRIP TUBING LAYOUT
NO SCALE (GRID PATTERN) RIC-2022

SHEET INDEX

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LICENSED LANDSCAPE ARCHITECT
MARK D. BEALL
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STATE OF CALIFORNIA

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Revisions

No.	Date	Description

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

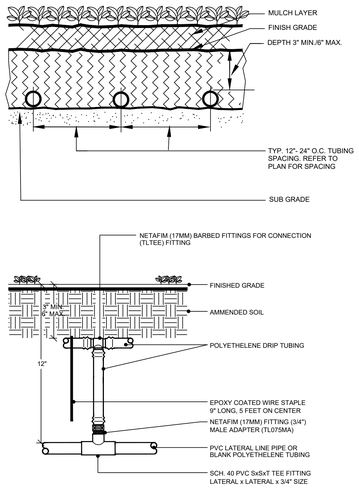
2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

IRRIGATION DETAILS

Job No.
2990

Date
01.30.2023

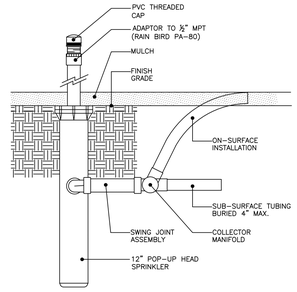
L2.04



NOTE:

- INSTALL TUBING AT CONSISTANT DEPTH BELOW GRADE. SECURE TUBING WITH STAPLES 5 FEET ON CENTER TO PREVENT SURFACING OF TUBING DURING BACKFILL.
- DRIPPERLINE TUBING SHALL BE INSTALLED IN PARALLEL ROWS.
- INSTALLATION OF TUBING & LAYOUT SHALL BE APPROVED, ON SITE BY THE ARCHITECT, PRIOR TO BACKFILLING OR MULCH COVER.

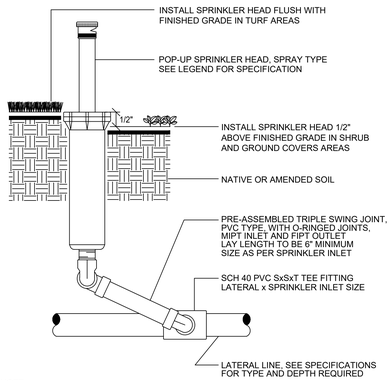
10 TYPICAL DRIP TUBING CONNECTION INSTALLATION
NO SCALE — RIC-2022



NOTE:

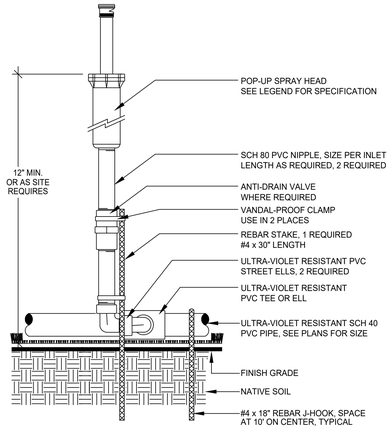
INSTALL SPRINKLER HEADS 12" FROM FENCES, WALLS OR BUILDINGS.
INSTALL SPRINKLER HEADS 4" FROM PAVING EDGE IN GROUND COVER AREAS.
USE TEFLON TAPE ON ALL THREADED FITTINGS.
DRIP TUBING SYSTEM TO BE THOROUGHLY FLUSH OUT PRIOR TO INSTALLING PVC CAP.

11 TYPICAL DRIP TUBING FLUSH-OUT & OPERATION INDICATOR
NO SCALE — RIC-2022



NOTE:
INSTALL SPRINKLER HEADS 12" FROM FENCES, WALLS OR BUILDINGS.
INSTALL SPRINKLER HEADS 4" FROM PAVING EDGE IN GROUND COVER AREAS.
INSTALL SPRINKLER HEADS 2" FROM PAVING EDGE IN TURF AREAS.
INSTALL SPRINKLER HEADS PLUMB. ADJUST SPRAY ARC AND RADIUS TO COVER LANDSCAPE AREA WITHOUT OVERSPRAY ONTO PAVING, FENCES, WALLS OR BUILDINGS.
USE TEFLON TAPE ON ALL THREADED FITTINGS.

12 TYPICAL SPRINKLER POP-UP ASSEMBLY
NO SCALE — - — RIC-2022

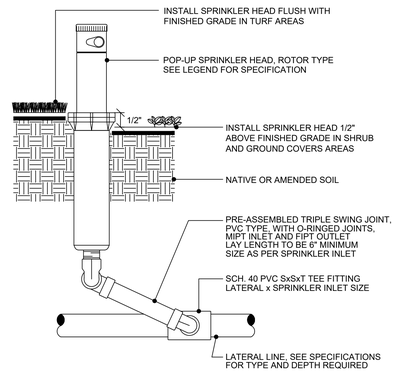


NOTE:
ALL PIPE INSTALLED ON GRADE TO BE SCH 40 ULTRA-VIOLET RESISTANT PVC. SPRINKLER HEAD ASSEMBLY TO BE INSTALLED PLUMB.

DO NOT INSTALL SPRINKLER HEAD ASSEMBLY CLOSER THAN 5 FEET TO SIDEWALKS, CURBS, DRIVEWAYS OR PEDESTRIAN AREAS.

USE TEFLON TAPE ON ALL THREADED FITTINGS.

13 TYPICAL ON SURFACE SPRAY HEAD
NO SCALE — - — RIC-2022



NOTE:
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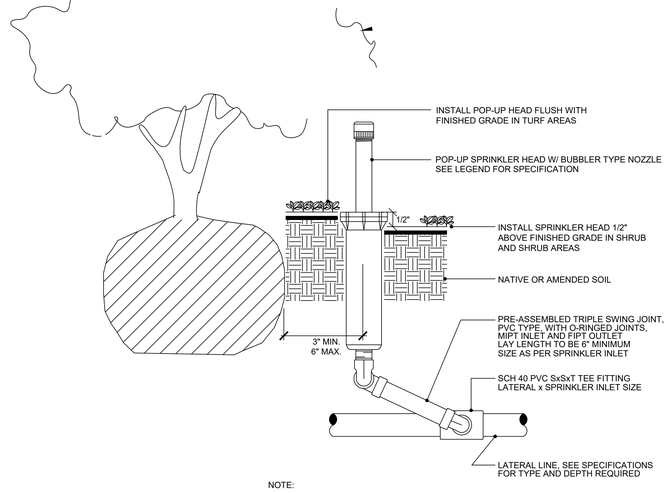
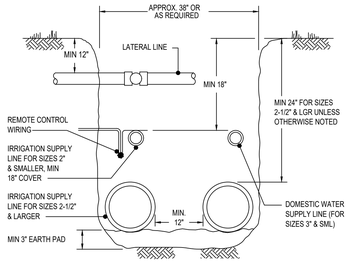
INSTALL SPRINKLER HEADS 4" FROM PAVING EDGE IN GROUND COVER AREAS.
INSTALL SPRINKLER HEADS 2" FROM PAVING EDGE IN TURF AREAS.
INSTALL SPRINKLER HEADS PLUMB. ADJUST NOZZLE STREAM TO COVER LANDSCAPE AREA WITHOUT OVERSPRAY ONTO PAVING, FENCES, WALLS OR BUILDINGS.
USE TEFLON TAPE ON ALL THREADED FITTINGS.

14 TYPICAL POP-UP ROTOR ASSEMBLY
NO SCALE — - — RIC-2022



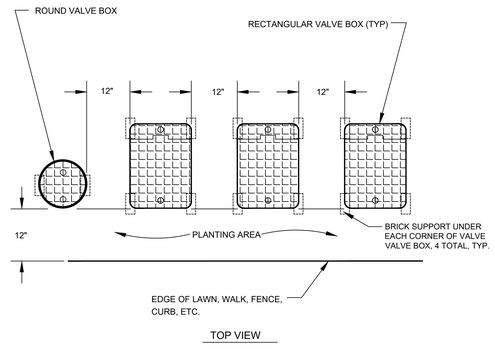
NOTE:
- INSTALL SPRINKLER HEADS 12" FROM FENCES, WALLS OR BUILDINGS.
- INSTALL SPRINKLER HEADS 4" FROM PAVING EDGE IN GROUND COVER AREAS.
- INSTALL SPRINKLER HEADS 2" FROM PAVING EDGE IN TURF AREAS.
- INSTALL SPRINKLER HEADS PLUMB. ON SLOPED LANDSCAPE AREAS, INSTALL BUBBLER ASSEMBLY ON HIGH SIDE OF SLOPE.
- USE TEFLON TAPE ON ALL THREADED FITTINGS.

15 TYPICAL POP-UP BUBBLER ASSEMBLY
NO SCALE — - — RIC-2022



NOTE:
1. PROVIDE SAND BACKFILL A MIN OF 12" OVER & UNDER ALL PIPING UNDER PAVED AREAS AND A MIN OF 6" ON ALL OTHER PRESSURE PIPING WHEN NOTED.
2. INSTALL ALL SUPPLY LINES (DOMESTIC & IRRIGATION) MIN 10 FT IN HORIZONTAL DISTANCE FROM SEWER LINES AND MIN 3 FT ABOVE THE ELEVATION OF NEARBY SEWER LINES WHERE THESE LINES CROSS.

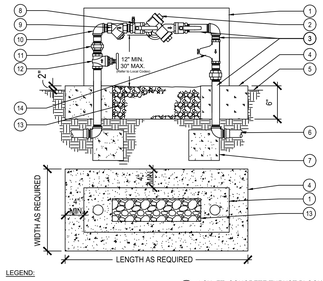
16 TYPICAL GENERAL TRENCHING DETAIL
NO SCALE — - — RIC-2022



TOP VIEW

NOTES:
1. CENTER BOXES OVER VALVES.
2. SET BOXES IN GROUND COVER/SHRUB AREA WHERE POSSIBLE.
3. SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE.
4. AVOID HEAVILY COMPACTING SOIL AROUND BOXES TO PREVENT DAMAGING VALVE BOXES.

17 TYPICAL VALVE BOX LAYOUT
NO SCALE — - — RIC-2022



LEGEND:

1. VANDAL RESISTANT STAINLESS STEEL ENCLOSURE. SEE SPEC. (N/A)
2. REDUCED PRESSURE BACKFLOW.
3. BRASS RISERS, NIPPLES (TYPICAL BOTH SIDES)
4. 6" CONCRETE PAD
5. FINISH GRADE.
6. MAINLINE. SEE SPECS. FOR DEPTH OF PIPE.
7. 1 CU. FT. CONCRETE THRUST BLOCKS (TYP.). (OPTIONAL)
8. BALL VALVES (TYP).
9. BRASS WYE STRAINER.
10. BRASS ELL (TYPICAL BOTH SIDES).
11. BRASS UNION, LINE SIZED BOTH SIDES.
12. GATE VALVE - LINE SIZE.
13. 3/4" PEA GRAVEL SUMP.
14. PRESSURE REGULATOR ASSEMBLY SET AT 50 P.S.I. (DELIVERY PRESSURE) SEE SPEC.

NOTES:
1. REDUCED PRESSURE BACKFLOW ASSEMBLY SHALL BE PLACED AT MIN. 12" CLEAR OF BLDG. & WALLS, ETC. & IN PLANTING AREAS WHEN POSSIBLE TO ACHIEVE VISUAL SCREENING.
2. THE BACKFLOW PREVENTER SHALL BE TESTED BY A CERTIFIED TESTER & THE RESULTS SENT TO THE COUNTY HEALTH AGENCY ON THE REQUIRED FORMS. A DUPLICATE COPY OF THE REPORT SHALL BE FURNISHED TO THE OWNER'S AUTHORIZED REPRESENTATIVE.
3. THE BACKFLOW PREVENTER SHALL BE OF THE TYPE & MANUFACTURER CURRENTLY APPROVED BY THE COUNTY HEALTH AGENCY.
4. DISSIMILAR METALS SHALL BE JOINED WITH DIO-ELECTRIC UNIONS OR COUPLINGS.
5. AFTER INSTALLATION, PAINT R.P.B.F. W/ ONE COAT OF PRIMER & TWO COATS PAINT, COLOR PER OWNER'S APPROVED. (OPTIONAL)
6. NO GALVANIZED NIPPLES SHALL BE USED.

18 TYPICAL BACKFLOW PREVENTION ASSEMBLY
NO SCALE — - — RIC-2022

SHEET INDEX

- REFER TO SHEET L2.01 FOR IRRIGATION PLAN (BASE BID).
- REFER TO SHEET L2.01 FOR IRRIGATION PLAN (RETENTION BASIN).
- REFER TO SHEET L2.01 FOR IRRIGATION PLAN (BID ALTERNATE NO. 1).
- REFER TO SHEET L2.02 & L2.03 FOR LEGENDS & NOTES PLAN.
- REFER TO SHEET L2.04, L2.05 & L2.06 FOR IRRIGATION DETAILS PLAN.

Roque Irrigation Consultants, LLC
5873 S. Orlando Avenue - L.A. - CA. 90056-1632
Ph: 310 . 923 . 1885
E-mail: iroque@roque-irrigation.com

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ARCHITECT

LICENSED ARCHITECT — MARK BEALL — C–26053 — Ren. Date 08/31/2023 — STATE OF CALIFORNIA

CONSULTANT

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LICENSED LANDSCAPE ARCHITECT — MARK D. BEALL — CA NO. 3640 — REN. 04/30/23 — STATE OF CALIFORNIA

Drawn by

Checked by

Revisions

No.	Date	Description

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

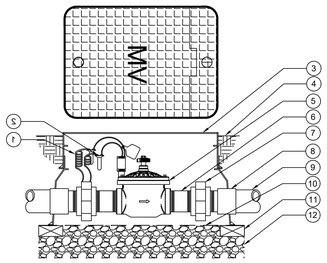
2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

IRRIGATION DETAILS

Job No. 2990

Date 01.30.2023

L2.05



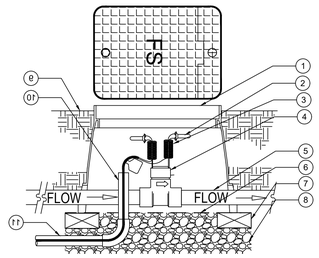
LEGEND:

1. 24" COILED EXPANSION LOOP.
2. WIRE CONNECTOR: DRI-SPLICE DS 100 CONNECTOR AND DS 300 SEALANT.
3. RECTANGULAR VALVE BOX W/ BOLT DOWN COVER.HEAT BRAND "MV" ON LID IN 2" HIGH CHARACTERS.
4. FINISH GRADE.
5. REMOTE CONTROL VALVE.
6. BRASS NIPPLE.
7. BRASS UNION.
8. PVC SCH 40 MALE ADAPTER.
9. MAIN LINE PIPE & FITTINGS.
10. 1/4" SQ 16 GA. GALV. WELDED WIRE MESH.
11. FOUR (4) BRICK SUPPORTS.
12. 3/4" GRAVEL (12" DEEP).

NOTES:

1. ALL VALVE BOXES TO BE PLACED IN SHRUB AREAS WHERE POSSIBLE. SET VALVE BOX 1/2" ABOVE FINISH GRADE IN LAWN AREAS, 1" IN PLANTING AREAS AND 1/2" MIN FROM EDGE OF HARDSCAPE.
2. CLOSED NIPPLES OR BUSHINGS ARE NOT ALLOWED.
3. USE TEFLON TAPE ON ALL THREADED PIPE. 1-1/2 WRAPS.
4. NO GALVANIZED NIPPLES SHALL BE USED.

19 TYPICAL MASTER CONTROL VALVE ASSEMBLY
NO SCALE RIC-2022



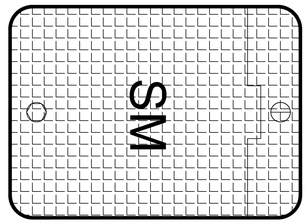
LEGEND:

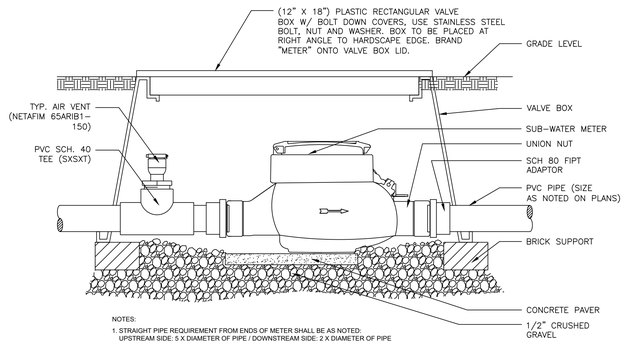
1. RECTANGULAR VALVE BOX W/ BOLT DOWN COVER. HEAT BRAND "FS" ON LID IN 2" HIGH CHARACTERS.
2. WIRE CONNECTOR: DRI-SPLICE DS 100 CONNECTOR AND DS 300 SEALANT.
3. 24" COILED EXPANSION LOOP.
4. FLOW SENSOR
5. MAINLINE.
6. WELDED WIRE MESH 1/4"SQ 16GA. GALV.
7. FOUR (4) BRICK SUPPORTS.
8. 3/4" GRAVEL (12" DEEP).
9. FINISH GRADE.
10. 1" (MIN.) SCH. 40 P.V.C. CONDUIT & FITTINGS W/ COAXIAL SENSOR CABLE.
11. TO CONTROLLER LOCATION. (CONDUIT TO RUN FULL LENGTH FROM SENSOR TO CONTROLLER.)

NOTES:

1. ALL VALVE BOXES TO BE PLACED IN SHRUB AREAS WHERE POSSIBLE. SET VALVE BOX 1/2" ABOVE FINISH GRADE IN LAWN AREAS, 1" IN PLANTING AREAS AND 1/2" MIN FROM EDGE OF HARDSCAPE.
2. CLOSED NIPPLES OR BUSHINGS ARE NOT ALLOWED.
3. USE TEFLON TAPE ON ALL THREADED PIPE. 1-1/2 WRAPS.

20 TYPICAL FLOW SENSOR ASSEMBLY (BRASS)
NO SCALE RIC-2022





NOTES:

1. STRAIGHT PIPE REQUIREMENT FROM ENDS OF METER SHALL BE AS NOTED: UPSTREAM SIDE: 5 X DIAMETER OF PIPE / DOWNSTREAM SIDE: 2 X DIAMETER OF PIPE
2. INSTALL AIR VENT UPSTREAM OF WATER METER
3. IF NECESSARY, AIR VENT ASSEMBLY SHALL BE INSTALLED IN SEPARATE VALVE BOX WHEN STRAIGHT PIPE REQUIREMENT (SEE NOTE NO. 1) PREVENT ENTIRE ASSEMBLY TO FIT IN STANDARD VALVE BOX CONFIGURATION.
4. SUB-METER ASSEMBLY TO BE INSTALLED PER MANUFACTURER RECOMMENDATIONS. INSTALLING CONTRACTOR TO TEST FOR PROPER OPERATION AND SUBMIT WRITTEN PROOF TO OWNER, PROPER OPERATION HAS BEEN ACHIEVED.

21 TYPICAL 1" SUB-METER ASSEMBLY
NO SCALE RIC-2022

SHEET INDEX

- REFER TO SHEET L2.01 FOR IRRIGATION PLAN (BASE BID).
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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

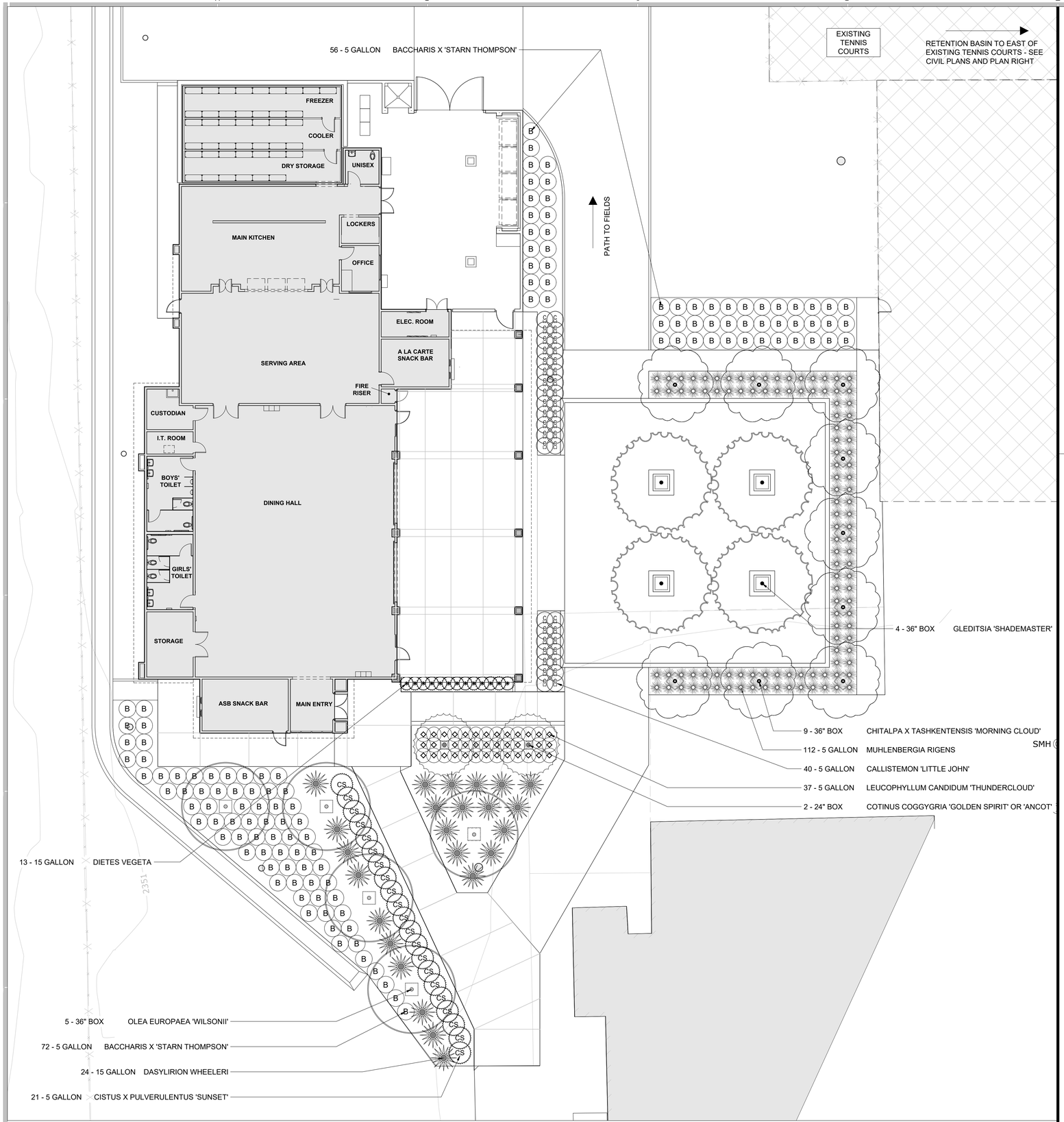
2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

IRRIGATION DETAILS

Job No. 2990

Date 01.30.2023

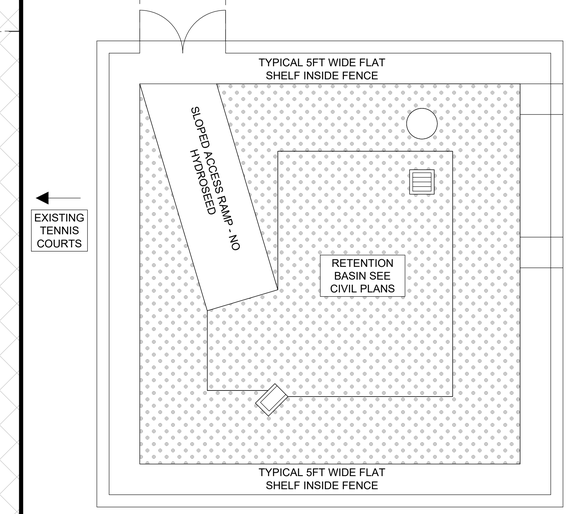
L2.06



PLANTING PLAN

SCALE : 1" = 10'-0"

1 L3.01



TOTAL HYDROSEED AREA: 3,353sf

BIOSWALE TEMPORARY or NON IRRIGATED MIX

This composition of native California grasses with a flowering component will formulate a very effective, filtering, functional bioswale when planted into drainage basins, bioswales and other open areas that are on occasion inundated with water for a very short term basis.

SPECIES	COMMON NAME	BULK #'s/ACRE	MIN % PLS*
Agrostis exarata	Spike bentgrass	2.00	76
Anemopsis californica	Yerba mansa	1.00	44
Deschampsia danthoniodes	Annual hairgrass	2.00	72
Elymus triticoides 'Rio'	Rio creeping wild rye	5.00	72
Eschscholzia californica	California poppy	1.00	83
Hordeum brachyantherum	Meadow barley	6.00	72
Hordeum intercedens	Little barley	4.00	72
Lasthenia glabrata	Goldfields	0.50	89
Melica imperfecta	Coast melic	2.00	60
Muhlenbergia rigens	Deergrass	0.50	32
Plantago insularis	Plantain	20.00	74
Sisyrinchium bellum	Blue eyed grass	1.00	78
Stipa pulchra	Purple needle grass	4.00	73
		49.00	

* MIN % PLS (Pure Live Seed) = Seed Purity x Germination Rate

Seeding rate: 49.00 lbs per acre
Height: 12-36 inches
Emergence: 10-21 days
Establishment: 55 days to 80% cover after emergence

WILDFLOWER AND NATIVE GRASS SEED: AS PROVIDED BY S&S SEEDS, CARPENTERIA, CA (805) 684-0436. FRESH, CLEAN, AND DRY NEW SEED, OF MIXED SPECIES
(SEE SPECIFICATIONS FOR HYDROSEED PROCEDURES) CALLISTEMON 'LITTLE JOHN'

RETENTION BASIN - PLANTING

SCALE : 1" = 10'-0"

1 L3.01

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2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

PLANTING PLAN

Job No. 2990

Date 01.30.2023

L3.01

GENERAL NOTES

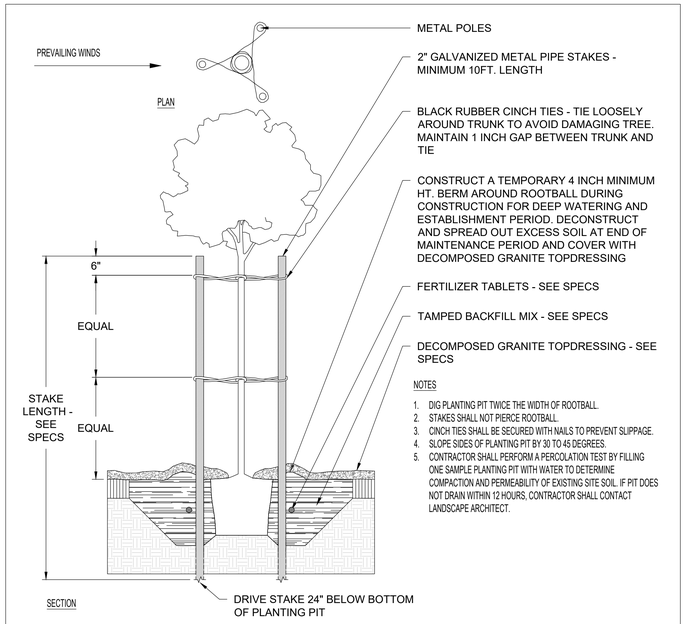
1. See architect/civil engineer's drawings for additional construction and utility routing information.
2. Landscape Contractor shall be responsible for making himself familiar with all understructure utilities, pipes, and structural conditions. Landscape Contractor shall take sole responsibility for any cost incurred due to damage of said utilities.
3. Landscape Contractor shall not willfully proceed with construction as designed when it is obvious that unknown obstructions exist that may not have been known during design or if signage is not located as indicated on the plans. Such conditions shall be immediately brought to the attention of the Landscape Architect (323) 465-1450. The Landscape Contractor shall assume full responsibility for all necessary revisions due to failure to give such notification.
4. Landscape Contractor shall be responsible for any coordination with other subcontractors, as required, to accomplish irrigation and planting operations. Landscape Contractor shall coordinate with the General Contractor for all necessary sleeving and conduits, as shown on plan.
5. Contractor shall submit a source list of nursery names and addresses for all plant materials for approval from the Landscape Architect.

CONSTRUCTION NOTES

1. All vaults, boxes, and other existing in-ground structures that are designated to be inside of new planting areas shall have their locations adjusted or modified as needed to prevent trip hazards or avoid conflict with planting design.
2. Install root barriers along edges of paving that are within 8' of new trees.
3. Grades for lawn and shrub areas adjacent to paving areas shall be set 1" below top of paving. All paved areas shall drain away from buildings and drainage shall be directed to planting areas or existing drains as directed by civil engineer.

PLANTING NOTES

1. Contractor shall break up, rip, turn over and otherwise cultivate to a depth of at least 12" either mechanically or by hand the existing soils that are heavily compacted to achieve 80% compaction levels for planting areas.
2. Soil amendments within specifications are for bidding purposes only. A soil report's recommendations shall govern.
3. Install root barriers along edges of paving that are within 48" of new trees.
4. Grades for lawn and shrub areas adjacent to paving areas shall be set 1" below top of paving. All paved areas shall drain away from buildings and drainage shall be directed to planting areas or existing drains as directed by civil engineer.
5. All new and existing planting areas shall be free of construction debris, rocks, form boards, weeds and any and all existing plants or turf designated to be removed.
6. Tree locations shown on plans with dimensions shall be placed accurately and shall not be adjusted without approval of the Landscape Architect.
7. A representative sample of the botanical name tag from the nursery shall be provided for each species of plant to correctly indentify it and shall remain attached to the plant until final inspection.
8. All planting areas shall have a wood or mineral mulch or topdressing as designated on the plans and as per the specifications.



1 TRIPLE TREE STAKING - METAL POLES
1/2" = 1'-0"

2 SHRUB PLANTING DETAIL
NOT TO SCALE

3 STABILIZED DECOMPOSED GRANITE PATH (NOT FIRE LANE)
1-1/2" = 1'-0"

PLANTING LEGEND

NOTE: THE PLANT LIST IS FOR THE CONTRACTOR'S CONVENIENCE ONLY. IF DISCREPANCIES EXIST BETWEEN THE PLANT LIST AND PLANTING PLANS,THE PLANS SHALL GOVERN.

BASE BID (SEE SHEET L3.01)

SYM	QTY	SIZE	HEIGHT	WIDTH	CALIPER	BOTANICAL NAME	COMMON NAME	REMARKS	WUCOLS H20
		TREES							
	9	36" BOX				CHITALPA X TASHKENTENSIS 'PINK CLOUD'	PINK CLOUD CHITALPA	MATCHING STANDARD	L
	2	24" BOX				COTINUS COGGYGRIA 'GOLDEN SPIRIT'	GOLDEN LEAF SMOKE TREE	MATCHING LOW BRANCH	L
	4	36" BOX				GLEDITSIA TRIANCANTHOS 'SHADEMASTER'	SHADEMASTER HONEYLOCUST	MATCHING STANDARD	L
	5	36" BOX				OLEA EUROPAEA 'SWAN HILL'	SWAN HILL FRUITLESS OLIVE	LOW BRANCHING	L
		SHRUBS							
	128	5 GALLON				BACCHARIS 'STARN THOMPSON'	STERILE HYBRID COYOTE BRUSH		L
	40	5 GALLON				CALLISTEMON 'LITTLE JOHN'	DWARF LITTLE JOHN BOTTLEBRUSH		M
	21	5 GALLON				CISTUS X PULVERULENTUS 'SUNSET'	SUNSET ROCKROSE		M
	24	15 GALLON				DASYLIRION WHEELERI	DESERT SPOON		L
	13	5 GALLON				DIETES VEGETA	FORTNIGHT LILY		M
	37	5 GALLON				LEUCOPHYLLUM CANDIDUM 'THUNDERCLOUD'	THUNDERCLOUD TEXAS SAGE		L
	72	5 GALLON				MUHLENBERGIA RIGENS	DEER GRASS		M
		HYDROSEED	3,353 SQUARE FEET			CUSTOMIZED SEE MIX - SEE SHEET L3.01		BY S&S SEED	

ALL TREES SHALL BE TAGGED BY THE LANDSCAPE ARCHITECT - TREE NURSERY SOURCES SHALL BE AT THE LANDSCAPE ARCHITECT'S DISCRETION

WATER USE BASED ON STATE OF CALIFORNIA WATER USE CLASSIFICATION OF LANDSCAPE SPECIES (WUCOLS)

VL - VERY LOW USE, L = LOW, M = MEDIUM, H = HIGH

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LICENSED LANDSCAPE ARCHITECT
MARK D. BEALL
CA NO 3640
REN. 04/30/23
STATE OF CALIFORNIA

Drawn by

Checked by

Revisions

No.	Date	Description

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

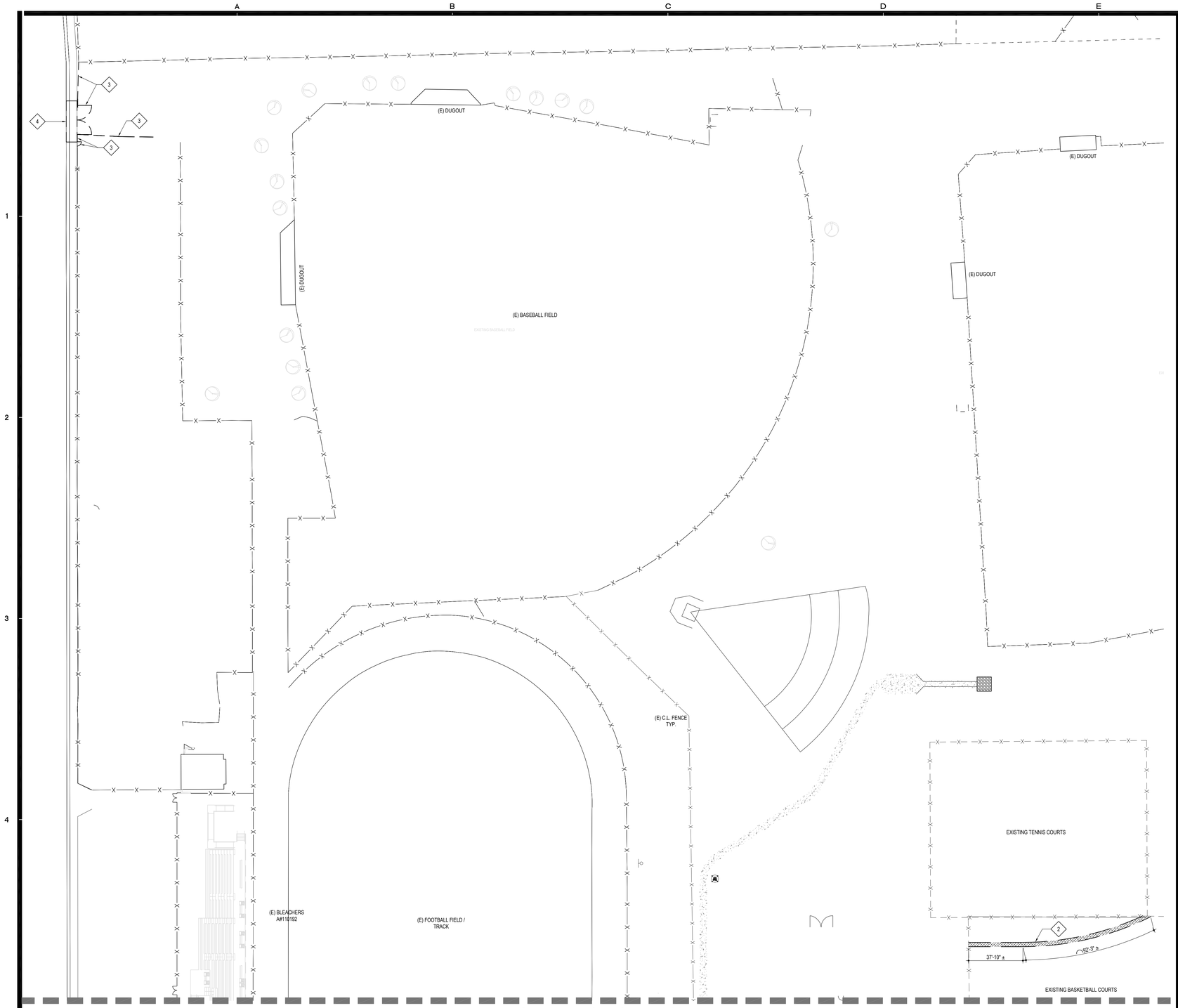
2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

PLANTING LEGENDS, DETAILS, AND NOTES

Job No.
2990

Date
01.30.2023

L3.02



DEMOLITION SITE PLAN

SCALE : 1" = 30'-0"

1 / A1.01

SITE PLAN LEGEND

DEMO EXISTING AC PAVING AND BASE IN ITS ENTIRETY. CONTRACTOR SHALL PROTECT IN PLACE ALL EXISTING BASKETBALL POST. CONTRACTOR SHALL REMOVE ALL DEBRIS AND DISPOSE OF IN A LEGAL MANNER. REFER TO SHT. C3.01 & C3.02 FOR NEW SCOPE OF WORK

DEMO EXISTING PORTION OF CONCRETE AND BASE IN ITS ENTIRETY. CONTRACTOR SHALL REMOVE ALL DEBRIS AND DISPOSE OF IN A LEGAL MANNER. REFER TO SHT. C3.01 & C3.03 FOR NEW SCOPE OF WORK

DEMO EXISTING TURF AND IRRIGATION IN ITS ENTIRETY. DISCONNECT IRRIGATION MAIN LINE FOR NEW WORK. PROTECT IN PLACE EXISTING RCSD WATER AND SEWER MAIN LINES. CONTRACTOR SHALL REMOVE ALL DEBRIS AND DISPOSE OF IN A LEGAL MANNER. REFER TO SHT. A1.02 FOR NEW PLAYFIELD AREA

SITE DEMOLITION KEYNOTES

1. DEMO (E) A.C. PAVING IN ITS ENTIRETY INCLUDING ALL (E) BASE. SCARIFY AND PREP SOIL FOR NEW PAVING PER CIVIL SHT. C3.01 & C3.02. (E) BASKETBALL POST SHALL REMAIN IN PLACE
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3. DEMO (E) GATES AND FENCING AS REQUIRED FOR REWORK OF DRIVEWAY. SEE DETAIL ON CIVIL SHEET C3.02.
4. DEMO (E) CONCRETE DRIVEWAY AND PREPARE FOR NEW WORK. SEE DETAIL ON CIVIL SHEET C3.02
5. DEMO (E) STORAGE BINS, N.I.C.
6. DEMO (E) RELO BUILDING, N.I.C.
7. DEMO EXISTING CHAINLINK FENCE, POST AND FOUNDATION IN ITS ENTIRETY. CONTRACTOR SHALL REMOVE ALL DEBRIS AND DISPOSE OF IN A LEGAL MANNER.

AGENCY

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122536 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/24/2023

FLEWELLING & MOODY
architecture planning interiors

HEADQUARTERS OFFICE:
815 Colorado Blvd, Suite 200
Los Angeles, CA 90041
P 323.543.8300
E-Mail: fm-pasadena@flewelling-moody.com

ANTELOPE VALLEY OFFICE:
1035 West Lancaster Boulevard
Lancaster, California 93534
P 661.949.0771
E-Mail: fm-lancaster@flewelling-moody.com

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ARCHITECT

LICENSED ARCHITECT
JASON M. HAMM
C-26053
Ren. Date 08/31/2023
STATE OF CALIFORNIA

CONSULTANT

Drawn by –

Checked by –

Revisions

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

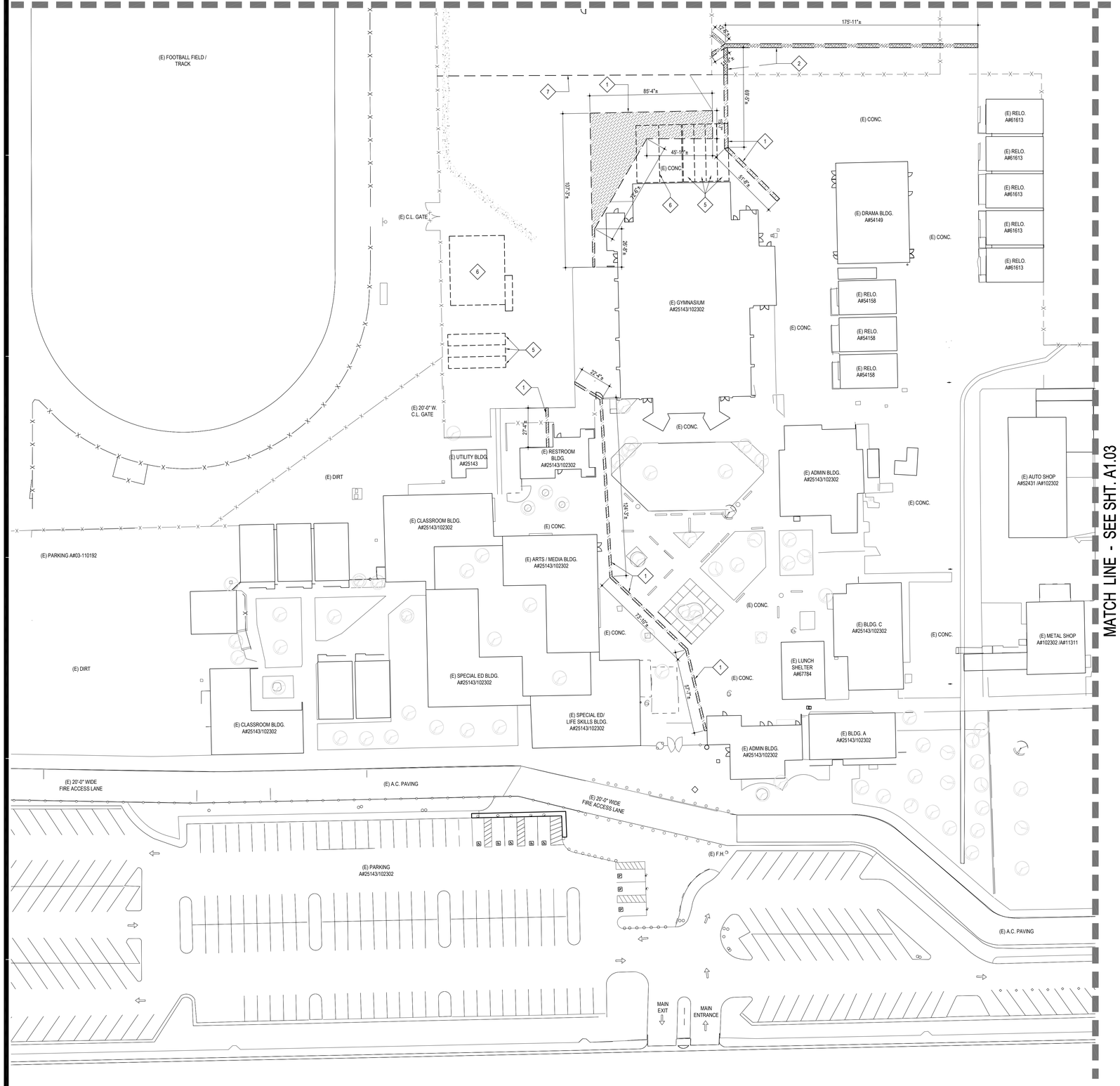
2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

SITE DEMOLITON PLAN

Job No. 2990

Date 01.30.2023

A1.01



DEMOLITION SITE PLAN

SCALE : 1" = 30'-0"

1 / A1.02

PROJECT NUMBER
DETAIL NAME
SHEET REFERENCE

N

SITE PLAN LEGEND

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SITE DEMOLITION KEYNOTES

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ARCHITECT

LICENSED ARCHITECT
KEVIN POHLIG
C-26053
Ren. Date 08/31/2023
STATE OF CALIFORNIA

CONSULTANT

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Checked by —

Revisions

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

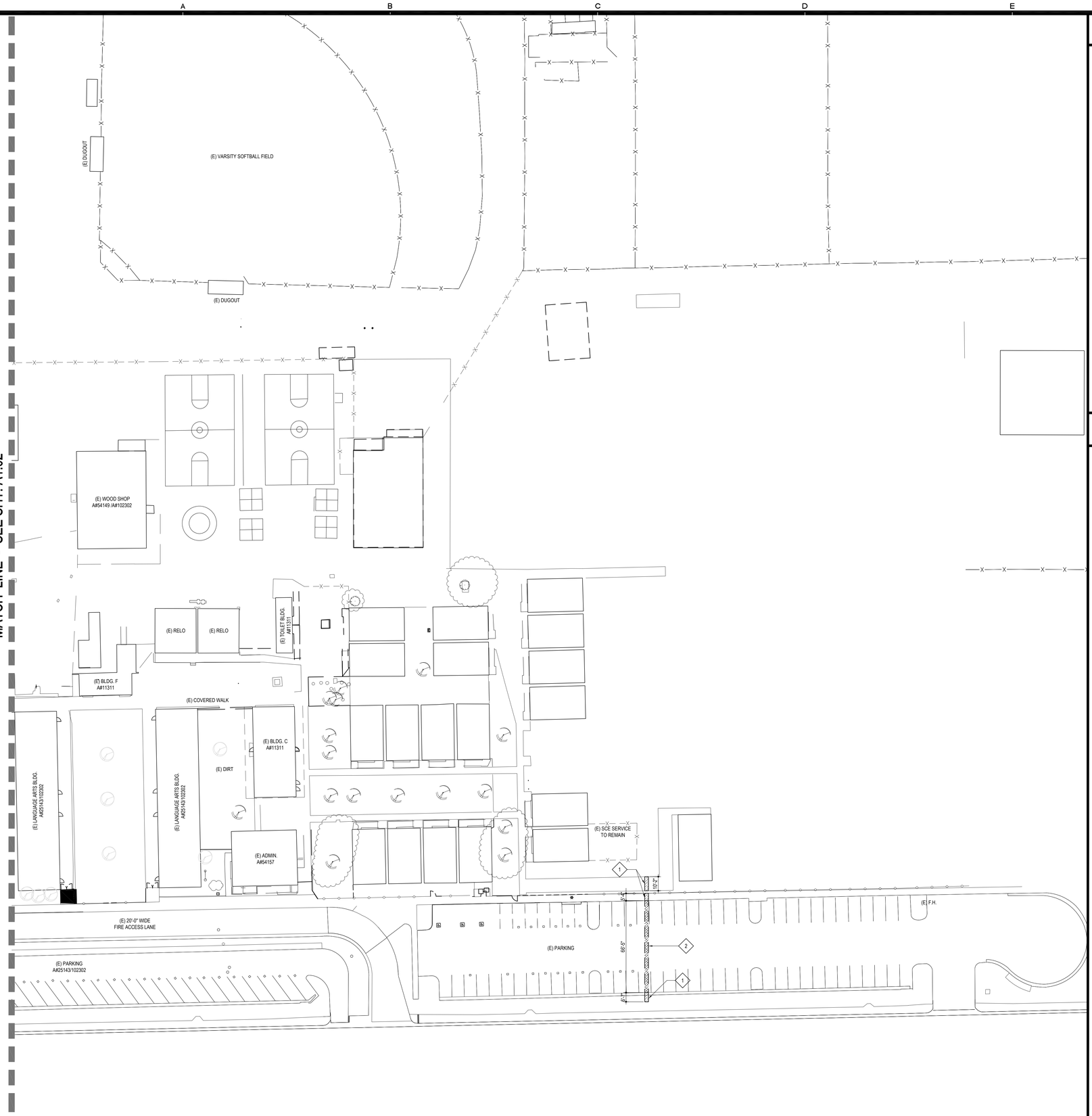
2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

SITE DEMOLITON PLAN

Job No. 2990

Date 01.30.2023

A1.02



DEMOLITION SITE PLAN

SCALE : 1" = 30'-0"

PROJECT NUMBER
DRAWING NUMBER
SHEET REFERENCE

1 / A1.03

N

SITE PLAN LEGEND

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KEVIN POHLIG
C-26053
Ren. Date 08/31/2023
STATE OF CALIFORNIA

CONSULTANT

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

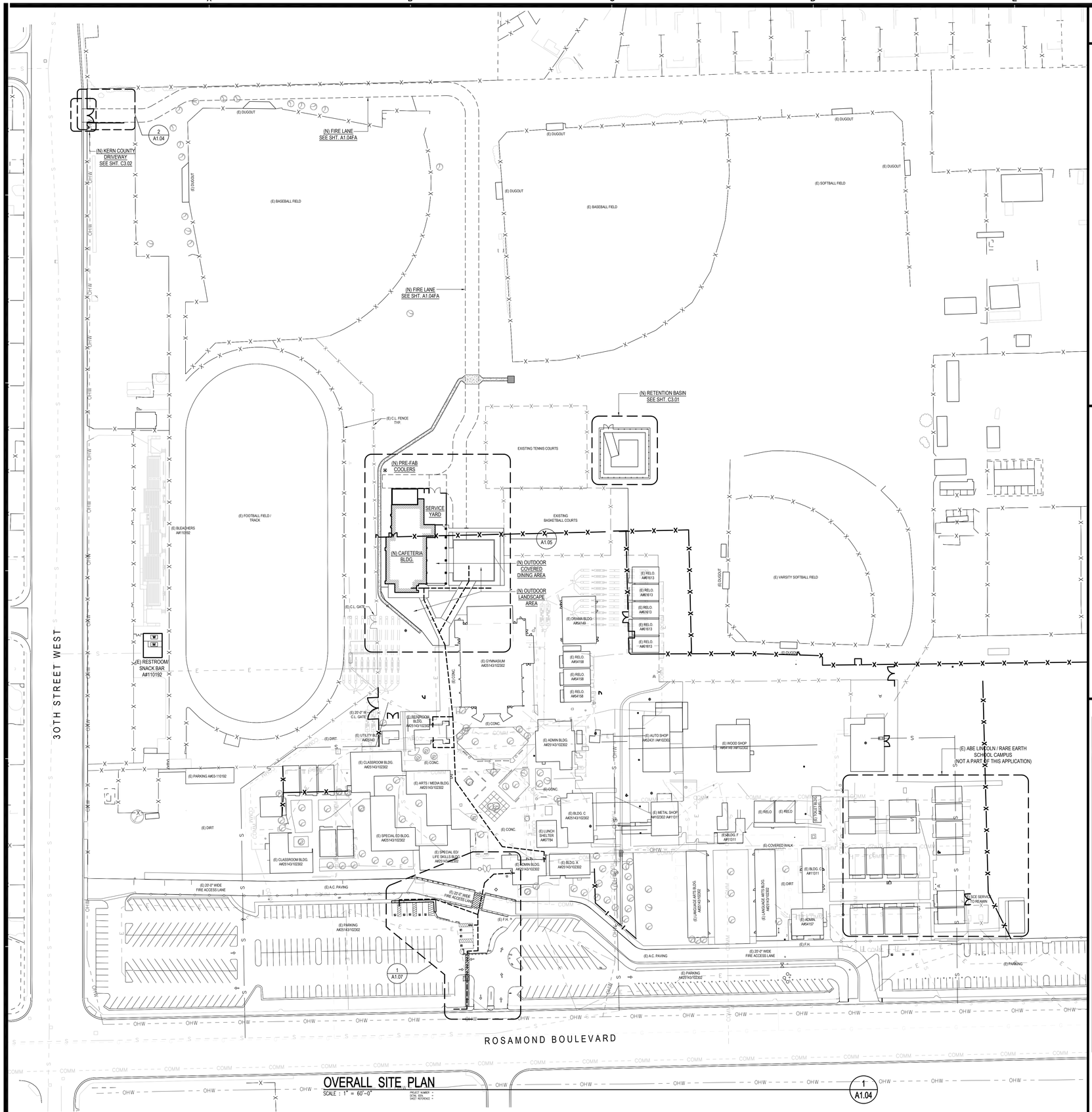
2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

SITE DEMOLITON PLAN

Job No.
2990

Date
01.30.2023

A1.03



OVERALL SITE PLAN

SCALE : 1" = 60'-0"

PROJECT NUMBER
DETAIL IDEN.
SHEET REFERENCE

1 A1.04

LEGEND

"PATH OF TRAVEL (P.O.T.) AS INDICATED IS A BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL AND IS AT LEAST 48" WIDE. SURFACE IS SLIP RESISTANT, STABLE, FIRM, AND SMOOTH. CROSS-SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED. (POT) SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM (11B-307.4) AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80" (11B-307.2). ARCHITECT TO VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED OR WILL BE REMOVED UNDER THIS PROJECT, AND PATH OF TRAVEL COMPLIES WITH CBC 11B-301.

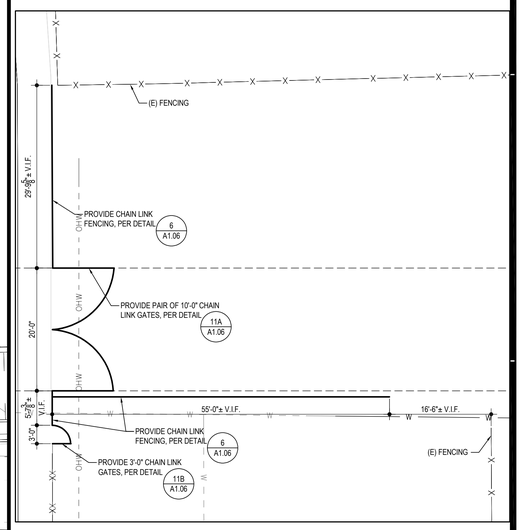
"DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT: THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS MEETS THE REQUIREMENTS OF THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE (CBC) ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NON-COMPLIANT WITH THE CBC HAVE BEEN IDENTIFIED AND THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE INDICATED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CBC COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THE ITEMS SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT."

EXISTING FIRE HYDRANT

NEW FIRE HYDRANT ALL FIRE HYDRANTS SHALL MEASURE 6"x4"x2-1/2", BRASS OR BRONZE, CONFORMING TO AMERICAN WATER WORKS ASSOCIATION STANDARD C503, OR APPROVED EQUAL; AND SHALL BE INSTALLED IN COMPLIANCE WITH FIRE DEPARTMENT REGULATION 8. FIRE CODE 508.1.1. (SHALL BE UNDER SITE CONTRACTOR SCOPE OF WORK)

NEW BLACK VINYL CHAINLINK FENCE, SEE DET. 6/A1.06



NORTHWEST GATE - ENLARGED PLAN

SCALE : 1" = 10'-0"

PROJECT NUMBER
DETAIL IDEN.
SHEET REFERENCE

2 A1.04

AGENCY

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APP: 03-122536 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 03/24/2023

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ARCHITECT

LICENSED ARCHITECT
C-26053
Ren. Date 08/31/2023
STATE OF CALIFORNIA

CONSULTANT

Drawn by –
Checked by –

Revisions

No.	Date	Description
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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

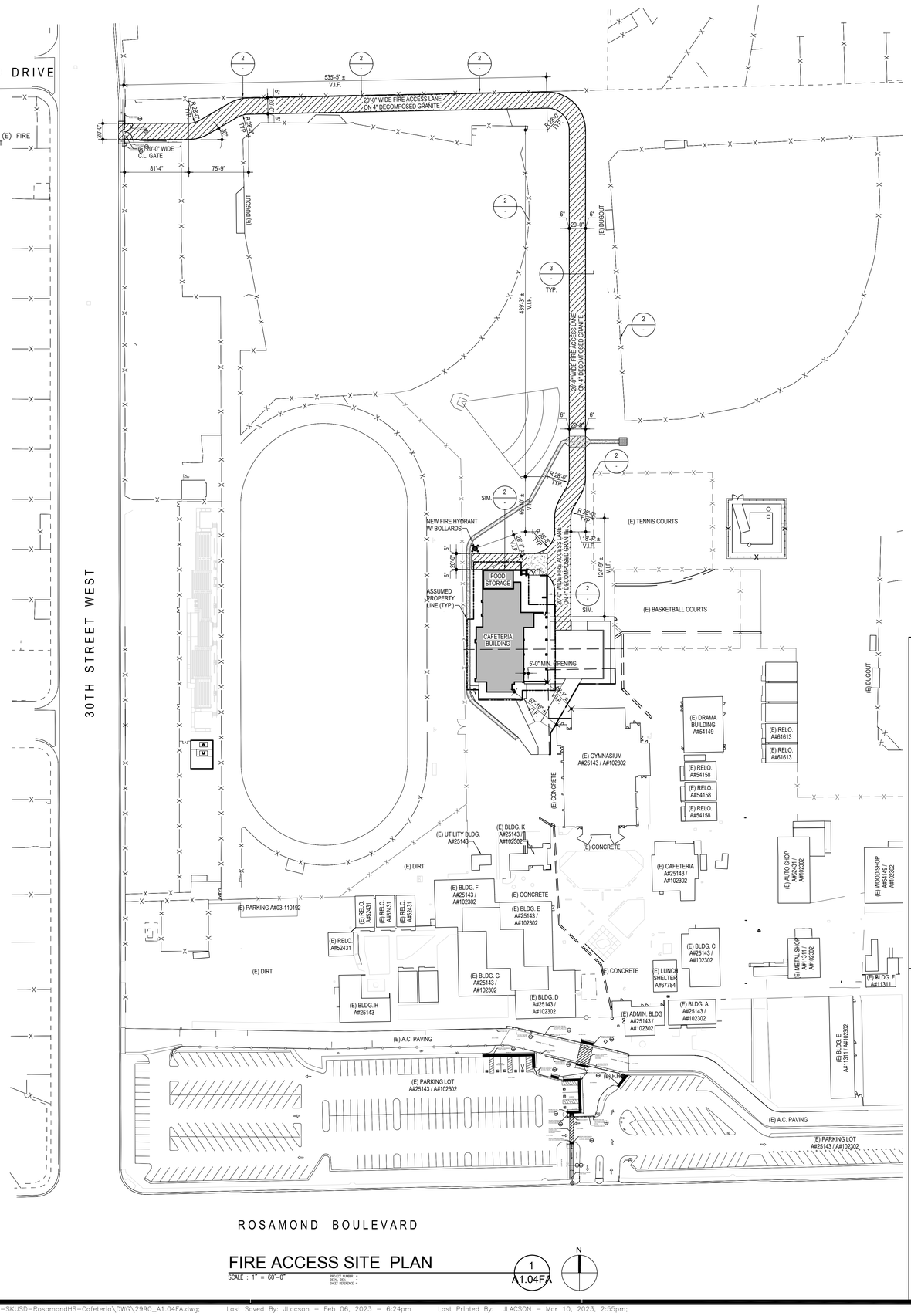
2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

OVERALL SITE PLAN

Job No. 2990

Date 01.30.2023

A1.04



FIRE ACCESS SITE PLAN

SCALE : 1" = 60'-0"

PROJECT NUMBER =
DETAIL REF. =
SHEET REFERENCE =

1 / A1.04FA

N

BUILDING DATA :

PROPOSED CAFETERIA BUILDING (7,323 S.F.) + PREFAB FOOD STORAGE (873 S.F.)
TOTAL PROPOSED BUILDING AREA : 8,196 S.F.
ONE STORY - FULLY SPRINKLERED
TYPE OF OCCUPANCY : A-2, B AND S-2
TYPE OF CONSTRUCTION : V-B

THE REQUIRED FIRE FLOW AVAILABILITY ON FIRE HYDRANT PER TABLE BB105.1 2019 CFC:
2,500 GPM AT 20 PSI FOR DURATION OF 2 HOURS
50% REDUCTION FROM AUTOMATIC FIRE SPRINKLER SYSTEM / MINIMUM FIRE FLOW :
1,500 GPM AT 20 PSI FOR DURATION OF 2 HOURS (REQUIRED FIRE FLOW FROM 1 NEW FIRE HYDRANT

ALL FIRE HYDRANTS SHALL MEASURE 6"x4"x2 1/2", BRASS OR BRONZE, CONFORMING TO AMERICAN WATER WORKS ASSOCIATION STANDARD C503.

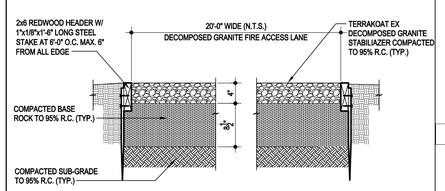
SITE PLAN LEGEND :

PROPOSED CAFETERIA BUILDING (7,323 S.F.) + PREFAB FOOD STORAGE (873 S.F.)
TOTAL PROPOSED BUILDING AREA : 8,196 S.F. ONE STORY, FULLY SPRINKLERED

PROPOSED CONCRETE PAVING

(E) F.H. (E) FIRE HYDRANT

PROPOSED ON-SITE FIRE HYDRANT W/ BARRICADES

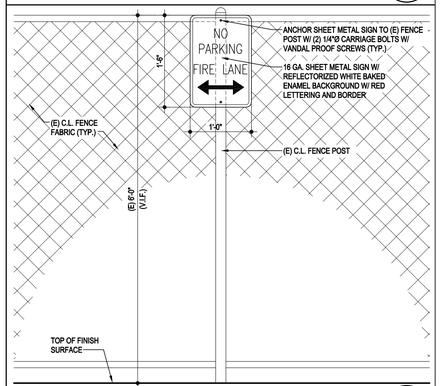


DECOMPOSED GRANITE FIRE LANE

SCALE : 1" = 1'-0"

PROJECT NUMBER =
DETAIL REF. =
SHEET REFERENCE =

3



SIGNAGE ALONG FIRE LANE

SCALE : 1" = 1'-0"

PROJECT NUMBER =
DETAIL REF. =
SHEET REFERENCE =

2

ROSAMOND COMMUNITY SERVICES DISTRICT

Rosamond Community Services District

3179 35th Street West, Rosamond CA 93560
Tel. 661.256.3411 Fax 661.256.2558
Website: www.rosamondcsd.com

BOARD OF DIRECTORS

Rick Webb, *President*
Byron Glennan, *Vice President*
Ben Stewart
Alfred Wallis
Greg Wood

GENERAL MANAGER

Steve A. Perez

April 18, 2022

Joselito Lacson
Flewelling & Moody
1035 West Lancaster Boulevard
Lancaster, CA 93534

Subject: Fire flows near Tropico Middle school and Rosamond High School

In response to your request for information on pipeline pressure and fire flow information, two fire flow tests were conducted. The tests were conducted April 18, 2022 and the results are as follows.

Fire hydrant located on Gertrude St. 60 feet East of Echo Dr.

Static Pressure:	105psi
Residual Pressure:	95psi
Observed Flow:	1050 gpm
Available Flow at 20 PSI:	3334 gpm

Residual pressures were taken from the next hydrant downstream of the hydrant being tested.

If you have any questions, please feel free to contact Rosamond Community Services District, at (661) 256-3411.

Sincerely,

Brach Smith
Public Works Manager

DSA 810

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

Division of the State Architect (DSA) documents referenced within this publication are available on the DSA Forms or DSA Publications webpages.

To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new building(s), additions to existing buildings, and for site alternate design means for fire department emergency vehicle access, and fire suppression water supply.

Information associated with compliance items 1 through 3 below is to be provided for all project types indicated above. Information associated with items 4 through 7 is to be completed when an alternate means is utilized. Acknowledgement by the school district and signature from the Local Fire Authority (LFA) is only required when an alternate design means is being requested.

The Project Information and Fire & Life Safety Information sections are to be completed for all projects and imaged onto the fire access site plan. When an alternate design/means is proposed, all sections on pages 1 and 2 are to be completed and imaged on the fire access site plan.

For additional information refer to the instructions at the end of this form and DSA Policy *PL 09-01: Fire Flow for Buildings*.

PROJECT INFORMATION	
School District/Owner:	Southern Kern Unified School District
Project Name/School:	Rosamond High School
Project Address:	2925 Rosamond Boulevard, Rosamond, CA 93560

FIRE & LIFE SAFETY INFORMATION			
1.	Has a fire hydrant flow test been performed within the past 12 months? *(If yes, provide a copy of the test data.)*	Yes ☑	No ☐
2.	Was the fire hydrant water flow test performed as part of this LFA review?	Yes ☑	No ☐
3.	Is the project located within a designated fire hazard severity zone (FHSZ) as established by Cal-Fire? *(If yes, indicate FHSZ classification below.)*	Yes ☐	No ☑
	Refer to the following website for FHSZ locations: http://egis.fire.ca.gov/FHSZ/	Moderate ☐ / High ☐	Very High ☐
	Wildland Interface Area (WIFA) *(If any designations are checked, project design must meet the requirements of CBC Chapter 7A.)*		WIFA ☐

DSA 810

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

CONDITION MEANS AND METHODS RESOLUTION		ALTERNATE ACCEPTED			
		Yes	No	N/A	N/R
4.	Emergency vehicle access roadways do not meet CFC requirements.			✓	
4a.	**Acceptable Alternate:** Emergency vehicle and personnel access as proposed by the project architect is acceptable for providing fire suppression and protection of life and property.				
5.	**Fire Hydrants:** Number and spacing does not meet CFC requirements.			✓	
5a.	**Acceptable Alternate:** Number of fire hydrants and spacing as proposed by the project architect is acceptable for fire suppression and protection of life and property.				
6.	**Fire Hydrants:** Water flow and pressure are less than CFC minimum.			✓	
6a.	**Acceptable Alternate:** The available flow and pressure is acceptable for providing fire suppression and protection of life and property.				
7.	Location of fire department connection(s) serving fire sprinkler systems or standpipe systems does not meet CFC requirements.				✓
7a.	**Acceptable Alternate:** The location of fire department connection serving the fire sprinkler system and/or standpipe system is acceptable for providing fire suppression and protection of life and property.				

School District Acceptance of Acceptable Design Alternates

By signing this form, the school district acknowledges and accepts the proposed design as an alternative to California Building Code (CBC) and California Fire Code (CFC) minimum requirements, as indicated by one or more of the conditions indicated at items 4a, 5a, 6a or 7a, for providing fire and life safety protection of life and property.

Accepted by: _____ Title: _____

Signature: _____ Date: _____

LOCAL FIRE AUTHORITY (LFA) INFORMATION		
LFA Agency Name:	Kern County Fire Dept.	
LFA Review Official:	Tatyana Allsup	
Title:	Fire Plans Examiner	Work Phone: 661-391-7310
Work Email:	tallsup@kernfire.com	

LFA Reviewer's Signature: Tatyana Allsup Date: 11-7-22

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DATE: 03/24/2023

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Drawn by —
Checked by —

Revisions

No.	Date	Description
—	—	—

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared for a specific site. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Flewelling & Moody.

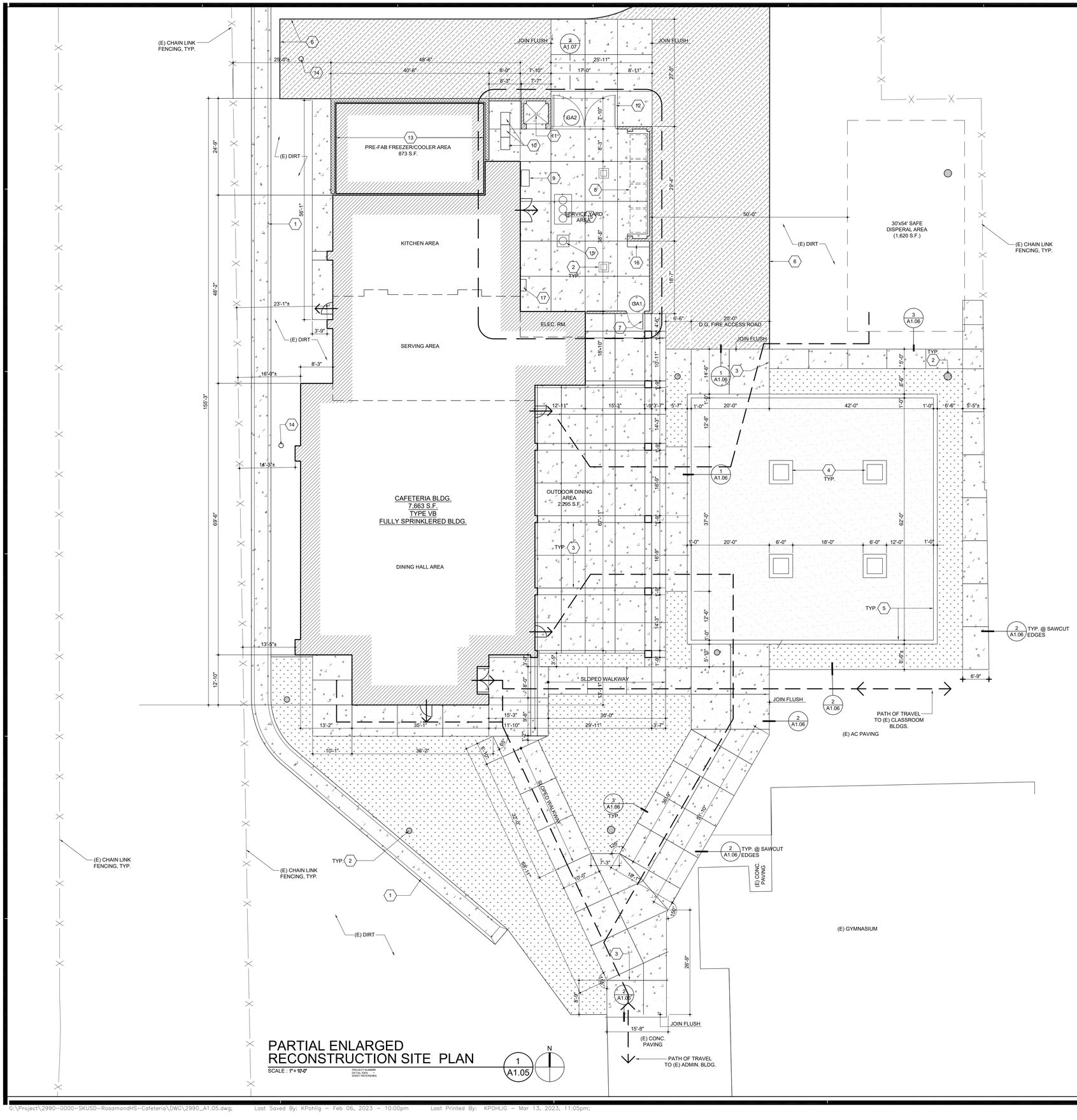
SOUTHERN KERN UNIFIED SCHOOL DISTRICT
ROSAMOND HIGH EARLY COLLEGE CAMPUS
2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

FIRE ACCESS SITE PLAN

Job No. 2990

Date 01.30.2023

A1.04FA



PARTIAL ENLARGED RECONSTRUCTION SITE PLAN

SCALE : 1" = 10'-0"

PROJECT NUMBER
DETAIL IDEN.
SHEET REFERENCE

1 A1.05

N

LEGEND

NEW FIRE HYDRANT ALL FIRE HYDRANTS SHALL MEASURE 6"x4"x2-1/2", BRASS OR BRONZE, CONFORMING TO AMERICAN WATER WORKS ASSOCIATION STANDARD C503, OR APPROVED EQUAL, AND SHALL BE INSTALLED IN COMPLIANCE WITH FIRE DEPARTMENT REGULATION 8. FIRE CODE 508.1.1. (SHALL BE UNDER SITE CONTRACTOR SCOPE OF WORK)

"PATH OF TRAVEL (P.O.T.) AS INDICATED IS A BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL AND IS AT LEAST 48" WIDE. SURFACE IS SLIP RESISTANT, STABLE, FIRM, AND SMOOTH. CROSS-SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED. (POT) SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM (11B-307.4) AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80" (11B-307.2). ARCHITECT TO VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED OR WILL BE REMOVED UNDER THIS PROJECT, AND PATH OF TRAVEL COMPLIES WITH CBC 11B-301.

"DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT: THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS MEETS THE REQUIREMENTS OF THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE (CBC) ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NON-COMPLIANT WITH THE CBC HAVE BEEN IDENTIFIED AND THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE INDICATED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CBC COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THE ITEMS SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT."

PROPOSED CAFETERIA BUILDING AND PRE-FABRICATED FREEZER AND COOLER UNITS

PROVIDE CONCRETE PAVING WITH MEDIUM BROOM FINISH REFER TO DET. A & B/ C5.01

PROVIDE MINIMUM 20'-0" WIDE DECOMPOSED GRANITE FIRE ACCESS LANE, SEE DET. 3/A1.04FA AND SHT. A1.04FA FOR ADDITIONAL INFORMATION

PROVIDE DECOMPOSED GRANITE PER DET. 1/L1.02

PROVIDE LANDSCAPE AND IRRIGATION, SEE SHEETS L1.01 THRU L3.02

PROVIDE 12" CMU AROUND PRE-FABRICATED UNITS, SEE SHT. S1.00 FOR ADDITIONAL INFORMATION

PROVIDE 8" CMU AROUND SERVICE YARD, SEE SHT. S1.00 FOR ADDITIONAL INFORMATION

SITE RECONSTRUCTION KEYNOTES

1. PROVIDE CONCRETE GUTTER, SEE SHT. C3.01
2. PROVIDE DRAINAGE GRATES, SEE SHT. C3.01
3. PROVIDE CONSTRUCTION CONTROL JOINT, SEE DET. C/C5.01
4. PROVIDE CONCRETE PRECAST TREE WELL, SEE SHT. L1.01
5. PROVIDE CONCRETE MOW STRIP, SEE DET. 5/A1.06
6. PROVIDE DECOMPOSED GRANITE FIRE LANE, SEE DET. 3/A1.04A
7. PROVIDE 4'-0" x 7'-0" CHAINLINK GATE, SEE DET. 7/A1.06
8. PROVIDE TRASH ENCLOSURE AREA PER DET. 2/A1.07
9. PROVIDE TOTALPAC-X OUTDOOR FIRE SPRINKLER EQUIPMENT
10. PROVIDE OUTDOOR AIR COOLED CONDENSER UNITS, SEE SHEETS FS1.0 AND FS-7.21 ICS-127527CMR-01
11. PROVIDE CAN WASH ENCLOSURE AREA PER DET. 2/A1.07
12. PROVIDE PR. 8'-0" x 7'-0" CHAINLINK GATE, SEE DET. 8/A1.06
13. PROVIDE PRE-FABRICATED STORAGE, COOLER AND FREEZER UNITS, SEE KITCHEN PLANS FOR ADDITIONAL INFORMATION
14. PROVIDE STORM DRAIN CLEANOUT PER DETAIL ON SHEET C5.02
15. PROVIDE MANHOLES FOR GREASE INTERCEPTOR AND SAMPLE BOX. SEE SHEET P2.2.
16. PROVIDE IRRIGATION CONTROL PANEL PER SHEET L2.01.
17. PROVIDE GAS PRESSURE REGULATOR. SEE PLUMBING SHEETS.

SAFE DISPERSAL AREA:

SAFE DISPERSAL AREA = 5 S.F. / OCCUPANT

CAFETERIA BUILDING AND PRE-FAB COOLER UNIT :

8,196 S.F. = 320 TOTAL OCCUPANT LOAD

320 OCCUPANTS x 5 S.F. = 1,600 S.F. REQUIRED FOR SAFE DISPERSAL AREA

40' x 40' = 1,600 S.F. SAFE DISPERSAL AREA PROVIDED (MIN. 50' AWAY FROM STRUCTURES)

GATE SCHEDULE:

GA1 — 4'-0" W. x 6'-0" H. BLACK VINYL CHAIN LINK GATE, SEE DET. 7/A1.06 WITH HARDWARE SET NO. 8

GA2 — PR. OF 8'-0" W. x 6'-0" H. BLACK VINYL CHAIN LINK GATE, SEE DET. 8/A1.06 WITH HARDWARE SET NO. 9

AGENCY

IDENTIFICATION STAMP
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APP: 03-122536 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 03/24/2023

FLEWELLING & MOODY
architecture planning interiors

HEADQUARTERS OFFICE:
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E-Mail: fm-lancaster@flewelling-moody.com

An Employee Owned Corporation

ARCHITECT

LICENSED ARCHITECT
KEVIN POHLIG
C-26053
Ren. Date 08/31/2025
STATE OF CALIFORNIA

CONSULTANT

Drawn by

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ROSAMOND HIGH EARLY COLLEGE CAMPUS

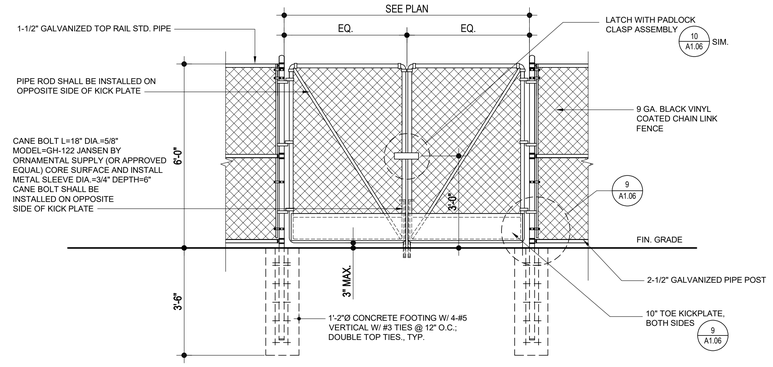
2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

PARTIAL ENLARGED RECONSTRUCTION SITE PLAN

Job No.
2990

Date
01.30.2023

A1.05



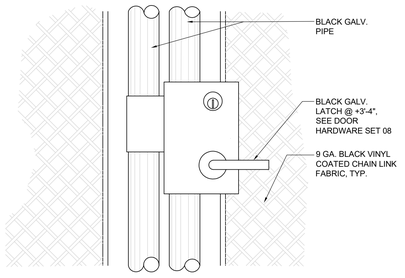
DOUBLE LEAF GATE

SCALE :1/2" = 1'-0"

PROJECT NUMBER
DETAIL REFERENCE
SHEET REFERENCE

(NOT PART OF DSA SSS REVIEW AND APPROVAL)

11A A1.06

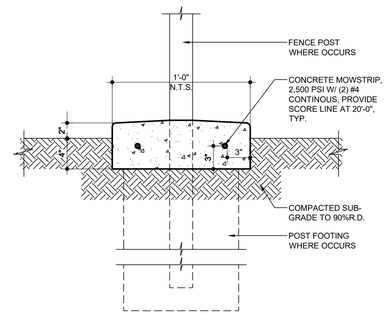


GALV. LATCH (NOT PART OF DSA SSS REVIEW AND APPROVAL)

SCALE : N.T.S.

PROJECT NUMBER
DETAIL REFERENCE
SHEET REFERENCE

11 A1.06

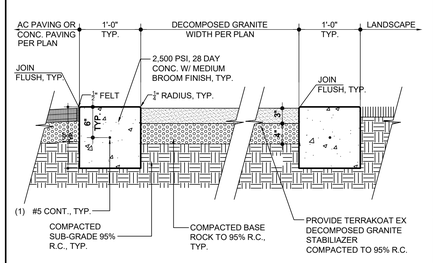


CONCRETE MOWSTRIP

SCALE : 1-1/2"=1'-0"

PROJECT NUMBER
DETAIL REFERENCE
SHEET REFERENCE

5 A1.06



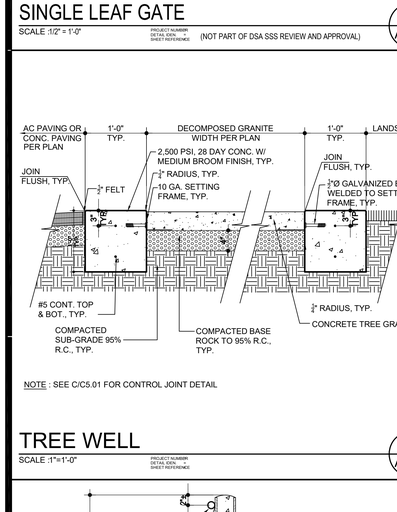
NOTE : SEE D/C5.01 FOR CONTROL JOINT DETAIL

DECOMPOSED GRANITE OUTDOOR LANDSCAPE AREA

SCALE :1"=1'-0"

PROJECT NUMBER
DETAIL REFERENCE
SHEET REFERENCE

4 A1.06



NOTES: 1. GATE POSTS AND FOOTING SIZES PER SPEC 087100.

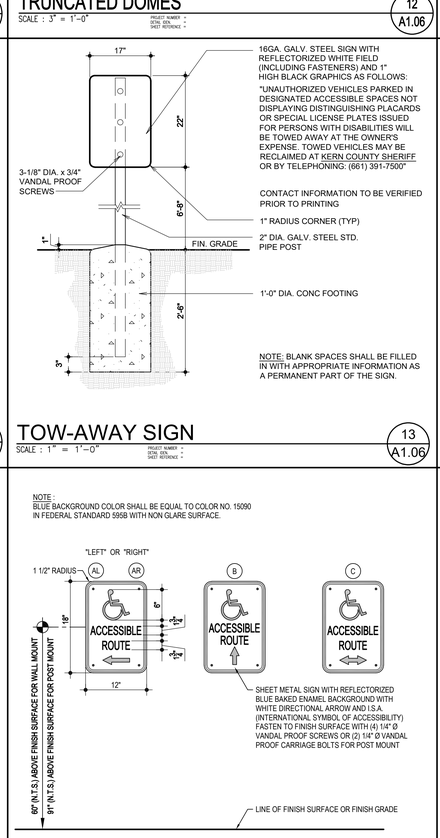
SINGLE LEAF GATE

SCALE :1/2" = 1'-0"

PROJECT NUMBER
DETAIL REFERENCE
SHEET REFERENCE

(NOT PART OF DSA SSS REVIEW AND APPROVAL)

11B A1.06



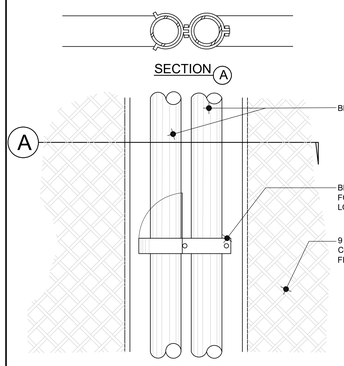
SECTION A-A

TRUNCATED DOMES

SCALE : 3" = 1'-0"

PROJECT NUMBER
DETAIL REFERENCE
SHEET REFERENCE

12 A1.06

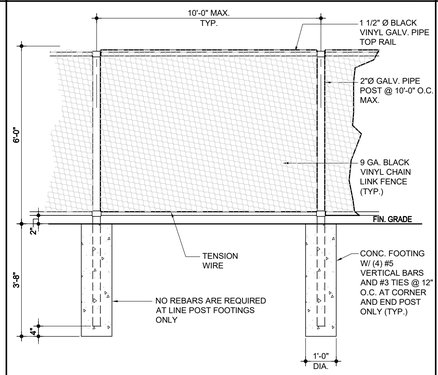


GALV. LATCH (NOT PART OF DSA SSS REVIEW AND APPROVAL)

SCALE : N.T.S.

PROJECT NUMBER
DETAIL REFERENCE
SHEET REFERENCE

10 A1.06



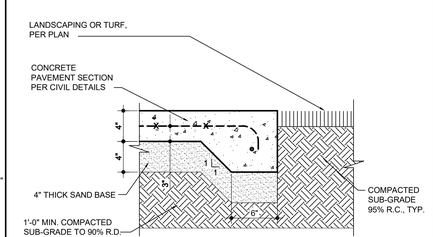
CHAIN LINK FENCE

SCALE : 1/2"=1'-0"

PROJECT NUMBER
DETAIL REFERENCE
SHEET REFERENCE

(NOT PART OF DSA REVIEW AND APPROVAL)

6 A1.06



CONCRETE TO LANDSCAPING

SCALE :1-1/2"=1'-0"

PROJECT NUMBER
DETAIL REFERENCE
SHEET REFERENCE

3 A1.06

NOTE : SEE C/C5.01 FOR CONTROL JOINT DETAIL

TREE WELL

SCALE :1"=1'-0"

PROJECT NUMBER
DETAIL REFERENCE
SHEET REFERENCE

16 A1.06

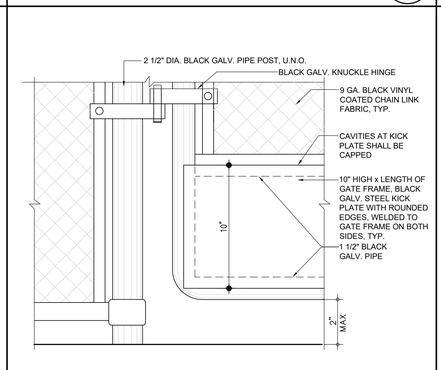
NOTE: BLANK SPACES SHALL BE FILLED IN WITH APPROPRIATE INFORMATION AS A PERMANENT PART OF THE SIGN.

TOW-AWAY SIGN

SCALE : 1" = 1'-0"

PROJECT NUMBER
DETAIL REFERENCE
SHEET REFERENCE

13 A1.06



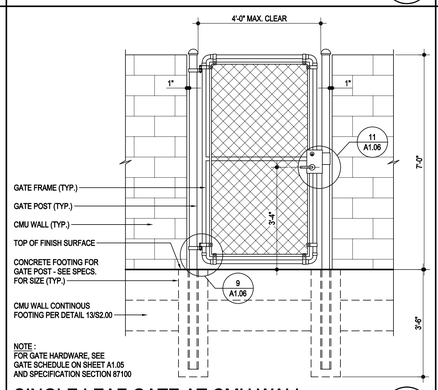
GALV. SWING GATE

SCALE :N.T.S.

PROJECT NUMBER
DETAIL REFERENCE
SHEET REFERENCE

(NOT PART OF DSA SSS REVIEW AND APPROVAL)

9 A1.06



NOTE :
FOR GATE HARDWARE, SEE GATE SCHEDULE ON SHEET A1.05 AND SPECIFICATION SECTION 87100

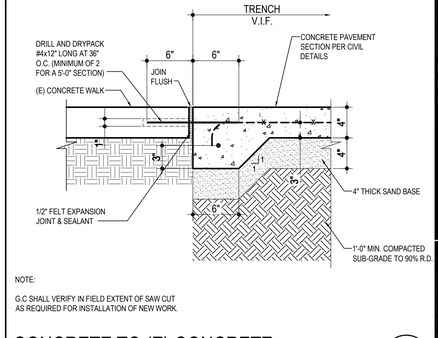
SINGLE LEAF GATE AT CMU WALL

SCALE : 1/2" = 1'-0"

PROJECT NUMBER
DETAIL REFERENCE
SHEET REFERENCE

NOT FOR DSA SSS REVIEW OR APPROVAL

7 A1.06



NOTE:

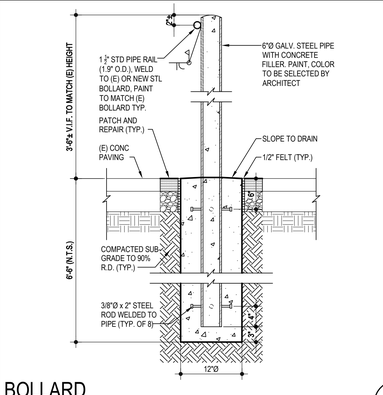
G.C SHALL VERIFY IN FIELD EXTENT OF SAW CUT AS REQUIRED FOR INSTALLATION OF NEW WORK.

CONCRETE TO (E) CONCRETE

SCALE : 1-1/2"=1'-0"

PROJECT NUMBER
DETAIL REFERENCE
SHEET REFERENCE

2 A1.06



BOLLARD

SCALE : 1" = 1'-0"

PROJECT NUMBER
DETAIL REFERENCE
SHEET REFERENCE

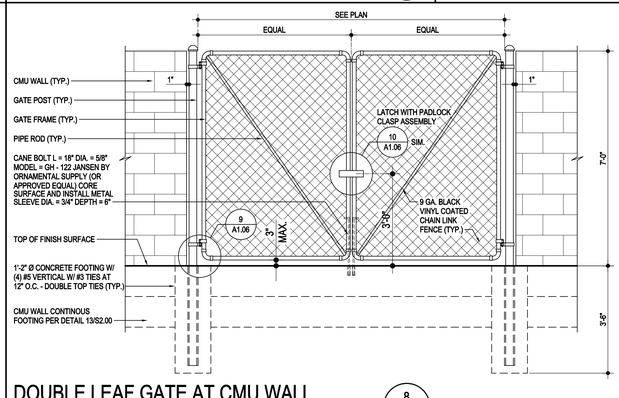
15 A1.06

DIRECTIONAL SIGNAGE

SCALE : 1" = 1'-0"

PROJECT NUMBER
DETAIL REFERENCE
SHEET REFERENCE

14 A1.06



NOTE :
1. FOR GATE HARDWARE, SEE GATE SCHEDULE ON SHEET A1.05 AND SPECIFICATION SECTION 87100

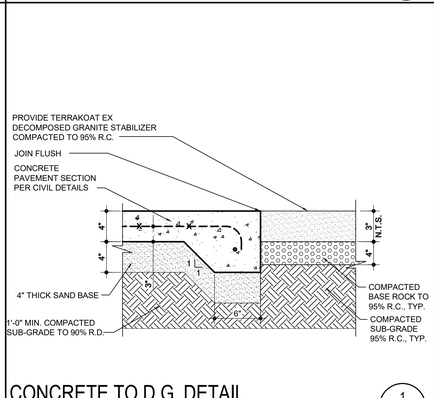
DOUBLE LEAF GATE AT CMU WALL

SCALE : 1/2" = 1'-0"

PROJECT NUMBER
DETAIL REFERENCE
SHEET REFERENCE

(NOT PART OF DSA SSS REVIEW AND APPROVAL)

8 A1.06



CONCRETE TO D.G. DETAIL

SCALE :1 1/2" = 1'-0"

PROJECT NUMBER
DETAIL REFERENCE
SHEET REFERENCE

1 A1.06

AGENCY

IDENTIFICATION STAMP
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APP: 03-122536 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/24/2023

FLEWELLING & MOODY
architecture planning interiors

HEADQUARTERS OFFICE:
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E-Mail: fm-pasadena@flewelling-moody.com

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ARCHITECT

LICENSED ARCHITECT
C-26053
Ren. Date 08/31/2023
STATE OF CALIFORNIA

CONSULTANT

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Checked by —

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

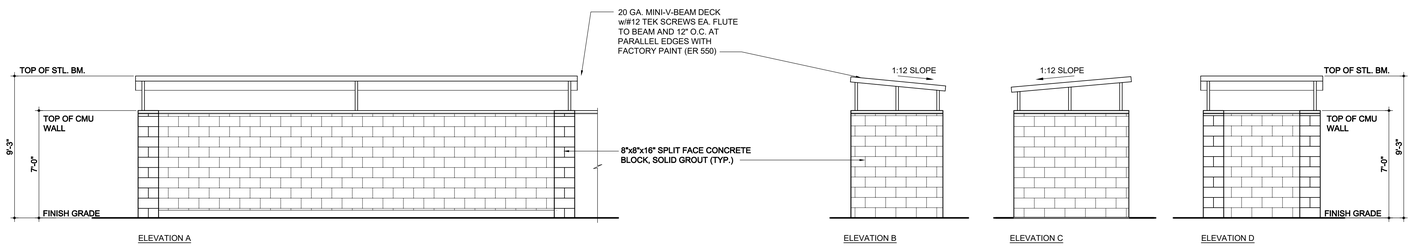
2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

SITE DETAILS

Job No. 2990

Date 01.30.2023

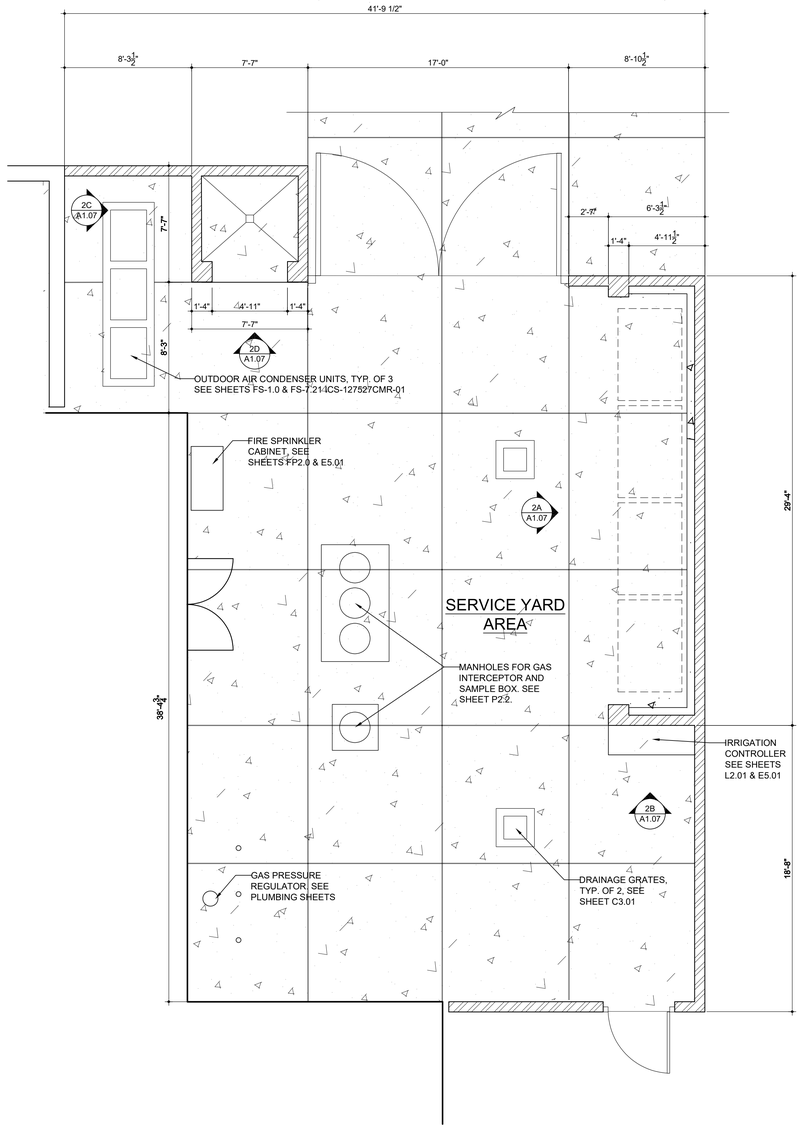
A1.06



TRASH AND CAN WASH ENCLOSURE ELEVATIONS

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

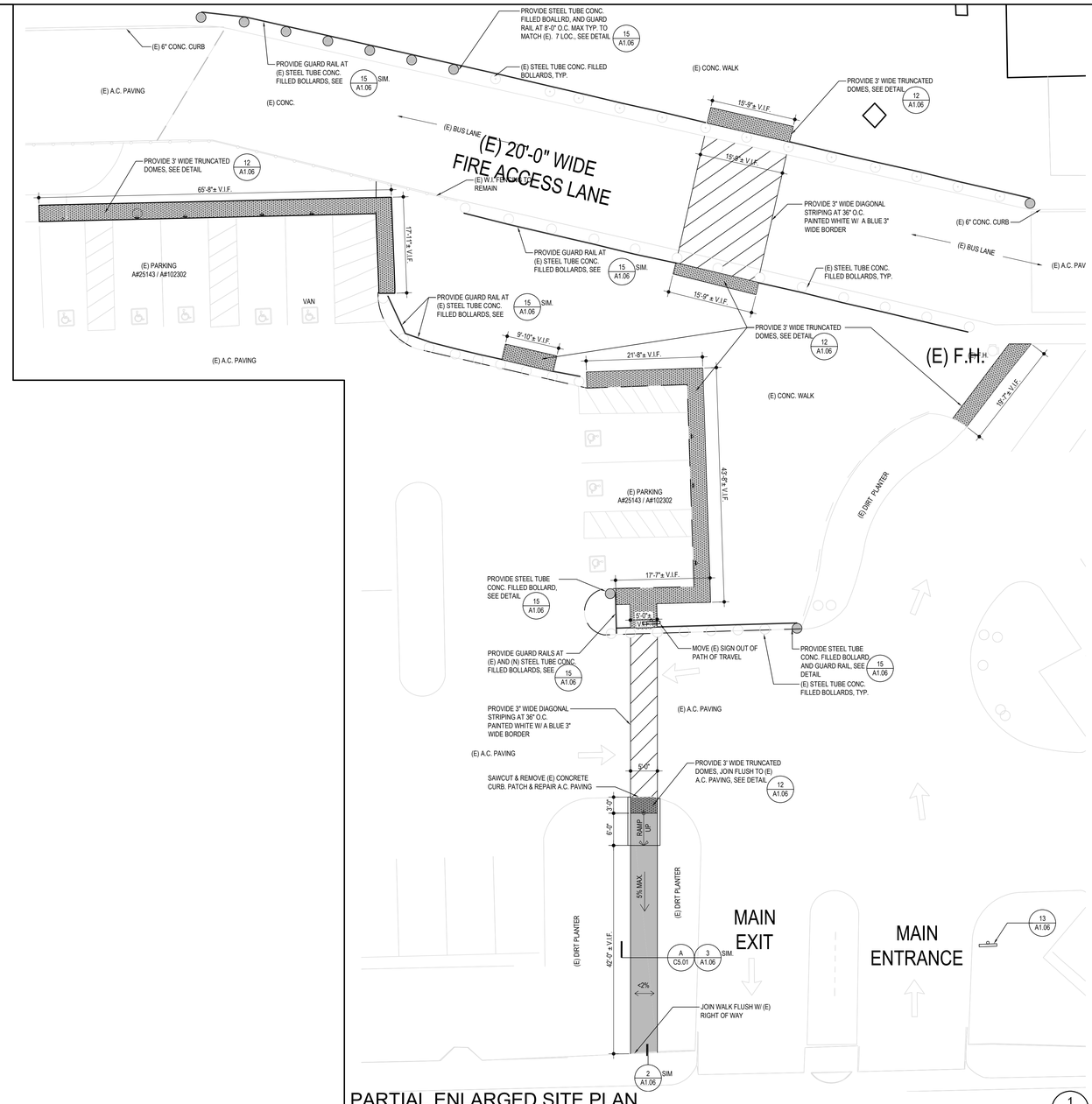
3 A1.07



ENLARGED SERVICE YARD PLAN

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

2 A1.07



PARTIAL ENLARGED SITE PLAN

SCALE :1" = 10'-0"

1 A1.07

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

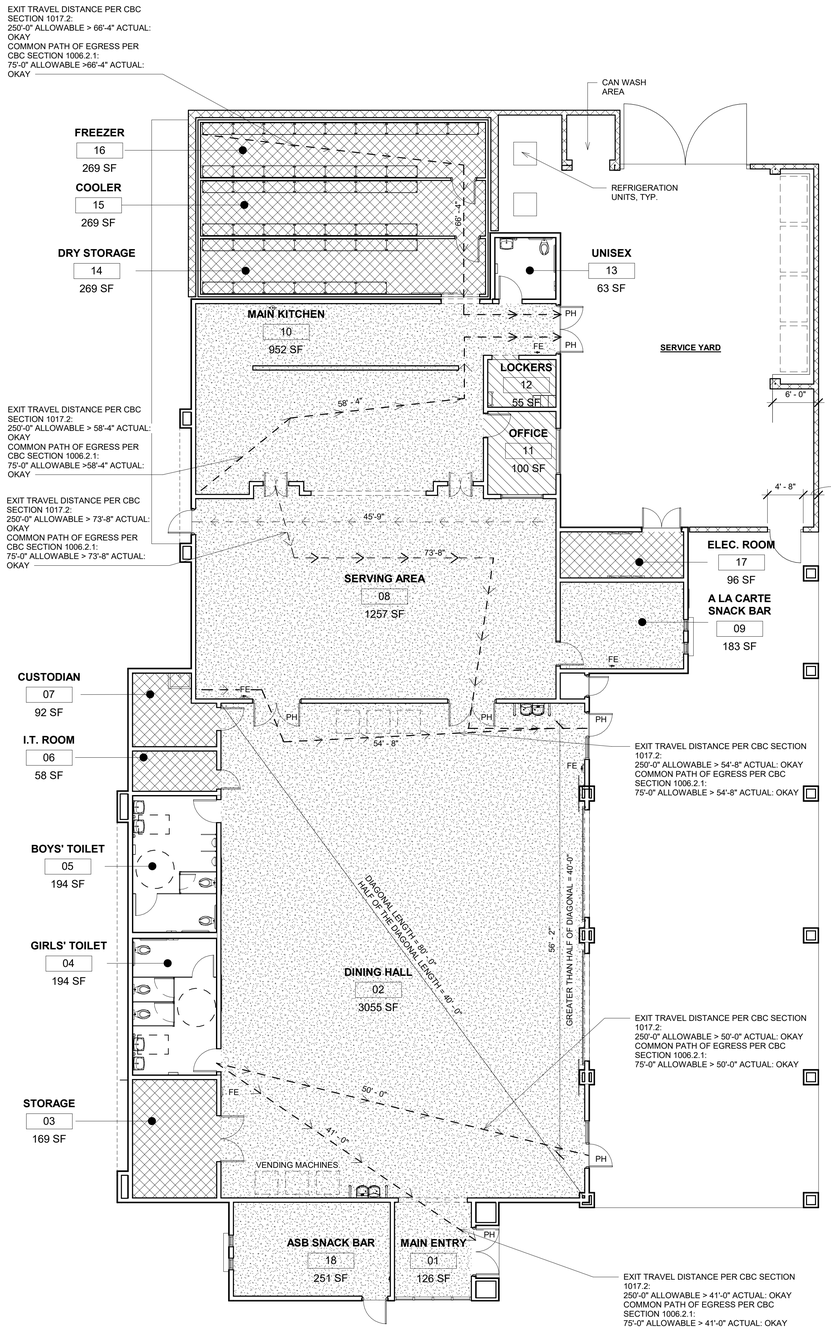
2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

SITE DETAILS

Job No. 2990

Date 01.30.2023

A1.07



1 FLOOR PLAN
1/8" = 1'-0"

PROJECT INFORMATION

CODE ANALYSIS

OCCUPANCY CLASSIFICATION AND USE:	A-2, B, S-2
BUILDING CONSTRUCTION TYPE:	V-B
NUMBER OF STORIES:	1 < 2 OK
BUILDING HEIGHT:	23' -6" < 60' OK
BUILDING GROSS AREA:	11,066 SF < 24,000 SF OK
SEPARATE USE:	NO
FRONTAGE INCREASE:	NOT USED
ALLOWABLE AREA INCREASE:	NOT USED
HEIGHT INCREASE:	NOT USED
FIRE SPRINKLERS; TYPE:	YES
FIRE ALARM; TYPE:	YES; AUTOMATIC

ALLOWABLE BUILDING AREA PER CBC 2019 SECTION 508.4.2

OCCUPANCY:	A-2; 5,824 / 24,000 SF	= 0.24
	S-2: 1,233 / 54,000 SF	= 0.02
	B (ACCESSORY TO A-2): 155 / 36,000 SF	= 0.004
RATIO CHECK:		=0.26 < 1 OK

ACCESSORY NET AREA:
TOTAL A-2 NET AREA: 5,824 SF
TOTAL ALLOWABLE ACCESSORY NET AREA: 5,824 SF * 0.10 = 582 SF
TOTAL ACCESSORY NET AREA:155 SF < 582 SF

CODE ANALYSIS NOTES

1. EACH DOOR IN A MEANS OF EGRESS FROM A GROUP A, OR ASSEMBLY AREA NOT CLASSIFIED AS AN ASSEMBY OCCUPANCY, HAVING AN OCCUPANT LOAD OF 50 OR MORE SHALL NOT BE PROVIDED WITH A LATCH OR LOCK UNLESS IT IS PANIC HARDWARE OR FIRE EXIT HARDWARE. 2019 CBC 1010.1.10.
2. ALL EXIT DOORS SHALL HAVE APPROVED EXIT SIGNS READILY VISIBLE. SIGNS SHALL HAVE BRAILLE BELOW TEXT IN ACCORDANCE WITH CBC 11B. REFER TO SIGNAGE DETAILS.
3. THE MEANS OF EGRESS, AND EXIT DISCHARGE, SHALL BE ILLUMINATED AT ANY TIME THE BUILDING IS OCCUPIED WITH A LIGHT INTENSITY OF NOT LESS THAN 1 FOOT-CANDLE AT THE WALKING SURFACE LEVEL. 2019 CBC 1008.2.1
4. PROVIDE ILLUMINATED EMERGENCY POWER PER 2019 CBC 1008.3.2.
5. THE POWER SUPPLY FOR MEANS OF EGRESS ILLUMINATION SHALL NORMALLY BE PROVIDED BY THE PREMISES ELECTRICAL POWER SUPPLY. IN THE EVENT OF POWER SUPPLY FAILURE, THE EMERGENCY POWER SYSTEM SHALL PROVIDE POWER FOR A DURATION OF NOT LESS THAN 90 MINUTES AND SHALL CONSIST OF STORAGE BATTERIES, UNIT EQUIPMENT. 2019 CBC 1008.3.4.
6. EGRESS DOORS SHALL BE READILY OPENABLE FORM THE EGRESS SIDE WITHOUT THE USEOF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT. 2019 CBC 1010.1.9
7. PORTABLE FIRE EXTINGUISHERS SHALL BE INSTALLED IN LOCATIONS AS REQUIRED BY 2019 CFC 906.1.
8. PROVIDE TACTILE EXIT SIGNAGE AS REQUIRED BY CBC 1013 & 1013.4. SEE DOOR SCHEDULE FOR SIGNAGE TYPES.
9. PREPARE AND MAINTAIN AN APPROVED FIRE SAFETY AND EVACUATION PLAN FOR GROUP 'E' OCCUPANCIES PER 2019 CFC 403.5 AND 404.
10. ALL EXISTING BUILDINGS SHALL COMPLY WITH EMERGENCY RESPONDER RADIO COVERAGE PER 2019 CFC 1103.

EXIT ANALYSIS

OCCUPANCY TABLE (SEE LEGEND FOR LOCATIONS)

USE	AREA (S.F.)	OCC. LOAD FACTOR	OCCUPANTS	REQ'D EXITS	REQ'D WIDTH (IN.)
STORAGE	217	300	3	1	0.6
ASSEMBLY	126	5	25	1	5
ASSEMBLY	4,746	15	317	2	63.4
ASSEMBLY	952	200	5	1	1
BUSINESS	151	100	2	1	0.4
TOTALS:	6,082		352	6	70.4

EXITING CALCULATION

- TOTAL OCCUPANT LOAD: 352 OCCUPANTS
- PER CBC 2019 TABLE 1006.2.1: 4 EXITS REQUIRED = 4 PROVIDED : OKAY
- PER CBC 2019 SECTION 1005.3.2: 352 * 0.2" = 70.4" REQUIRED < 216" PROVIDED: OKAY

CODE ANALYSIS PLAN LEGEND

Room name — ROOM NAME
101 — ROOM NUMBER
PH — PROVIDE PANIC HARDWARE
PATH OF TRAVEL / EXIT ACCESS TRAVEL DISTANCE
BUSINESS AREA
STORAGE AREA (ACCESSORY AREA FOR ADJACENT OCCUPANCY USE)
ASSEMBLY AREA
F.E. — PROVIDE TYPE 2A:10:BC FIRE EXTINGUISHER. VERIFY EXACT LOCATION WITH FIRE DEPARTMENT. MOUNT CONTROLS AT +44" A.F.F. MAX.
PROVIDE EMERGENCY LIGHT.

AREA OCCUPANCY DATA

ROOM #	ROOM NAME	AREA	USE OCCUPANCY	LOAD FACTOR	OCCUPANTS	NOTES
01	MAIN ENTRY	126 SF	A-2	5 SF	25	
02	DINING HALL	3055 SF	A-2	15 SF	204	
03	STORAGE	169 SF	S-2	300 SF	1	
04	GIRLS' TOILET	194 SF	-	-	-	
05	BOYS' TOILET	194 SF	-	-	-	
06	I.T. ROOM	58 SF	S-2	300 SF	1	
07	CUSTODIAN	92 SF	S-2	300 SF	1	
08	SERVING AREA	1257 SF	A-2	15 SF	84	635 SF IS BASED ON USABLE STUDENT FLOOR AREA. NUMBER OF OCCUPANTS IS BASED ON STUDENTS PLUS 6 SCHOOL EMPLOYEES
09	A LA CARTE SNACK BAR	183 SF	A-2	15 SF	12	
10	MAIN KITCHEN	952 SF	A-2	200 SF	5	
11	OFFICE	100 SF	B	150 SF	1	ACCESSORY
12	LOCKERS	55 SF	B	50 SF	1	ACCESSORY
13	UNISEX	63 SF	-	-	1	
14	DRY STORAGE	269 SF	S-2	300 SF	1	
15	COOLER	269 SF	S-2	300 SF	1	
16	FREEZER	269 SF	S-2	300 SF	1	
17	ELEC. ROOM	96 SF	S-2	300 SF	1	
18	ASB SNACK BAR	251 SF	A-2	15 SF	17	
19	FIRE RISER	11 SF	S-2	300 SF	1	

TOTAL BUILDING GROSS AREA: 7,322 SF
TOTAL BUILDING NET AREA: 6,856 SF
PREFAB FOOD STORAGE TOTAL GROSS AREA:
PREFAB FOOD STORAGE TOTAL NET AREA: 807 SF

ACCESSORY NET AREA:
TOTAL A-2 NET AREA: 5,824 SF
TOTAL ALLOWABLE ACCESSORY NET AREA: 5,824 SF * 0.10 = 582 SF
TOTAL ACCESSORY NET AREA:155 SF < 582 SF

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

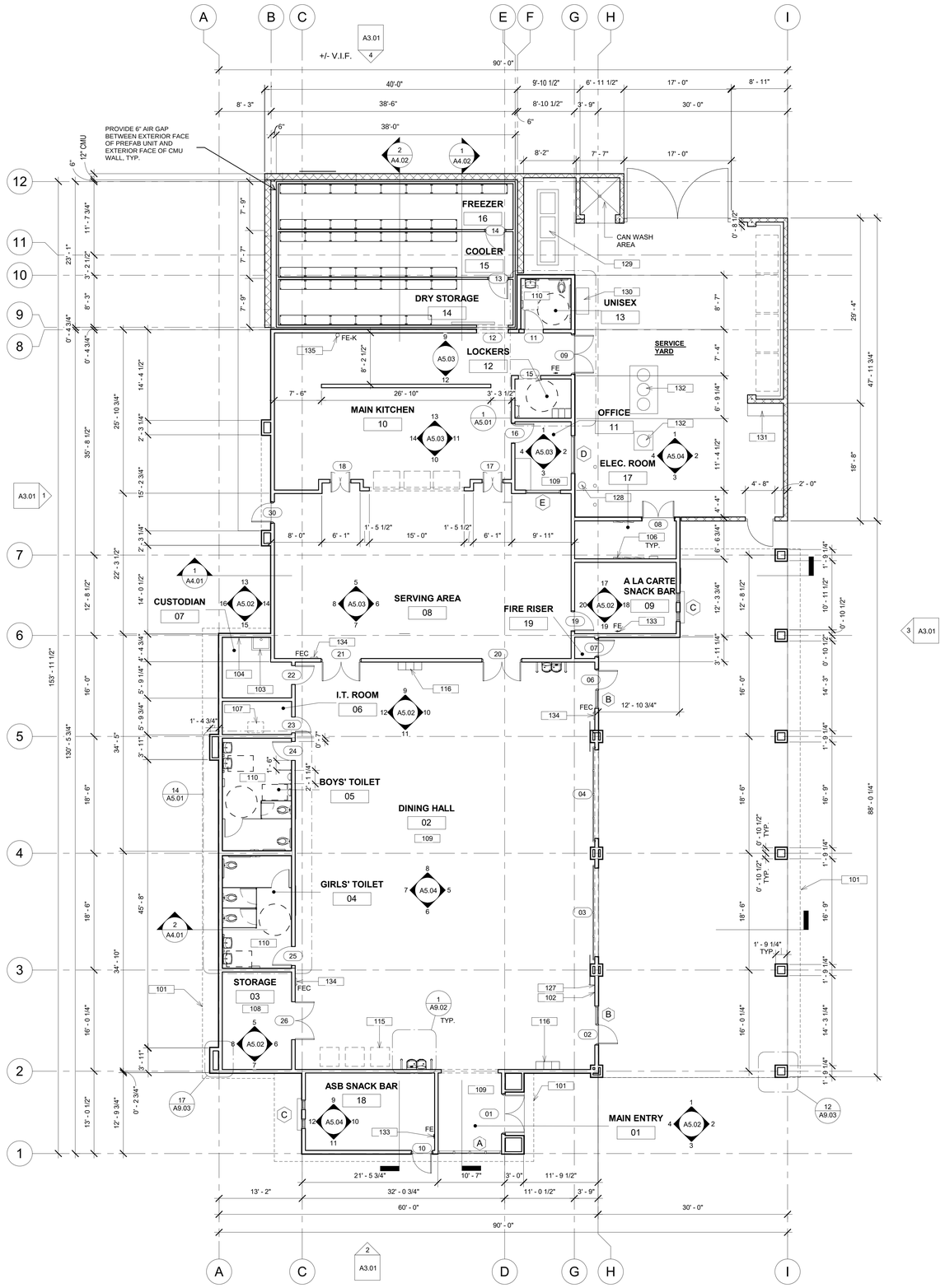
ROSAMOND HIGH EARLY COLLEGE CAMPUS

2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

Drawing Title

CODE ANALYSIS FLOOR PLAN

Job No. 2990.000
Date 01.30.2023
Sheet No. **A2.00**



1 FLOOR PLAN
1/8" = 1'-0"

FLOOR PLAN KEYNOTES

101	LINE OF ROOF OVERHANG ABOVE
102	MAX OCCUPANCY SIGNAGE, SEE DETAIL 7/A9.01
103	MOP SINK
104	MOP RACK
106	ELECTRICAL PANELS
107	IDF RACK. PROVIDE POWER AND DATA.
108	VINYL COMPOSITE TILE, COLOR & STYLE TO BE SELECTED BY ARCHITECT.
109	LUXURY VINYL TILE, COLOR & STYLE TO BE SELECTED BY ARCHITECT.
110	CERAMIC TILES OVER SETTING BED, SIZE, COLOR AND STYLE TO BE SELECTED BY ARCHITECT FROM MANUFACTURERS FULL RANGE OF COLORS. FLOORS SHALL SLOPE TO DRAIN.
115	VENDING MACHINE, DISTRICT PROVIDED.
116	TRASH RECEPTICAL, DISTRICT PROVIDED.
127	FURNISH AND INSTALL ASSISTIVE LISTENING SYSTEM SIGN PER DETAIL 11/A9.01
128	GAS REGULATOR, SEE PLUMBING DRAWINGS
129	OUTDOOR AIR COOLED COMPRESER UNITS, TYP. OF 3, SEE SHEETS FS-1.0 & FS-7.21 ICS-127527CMR-01
130	FIRE SPRINKLER CABINET. SEE SHEET FP2.0 & E5.01.
131	EQUIPMENT PAD FOR IRRIGATION CONTROLS.SEE SHEET L2.01.
132	MANHOLES FOR GREASE INTERCEPTOR AND SAMPLE BOX. SEE SHEET P2.2.
133	FURNISH AND INSTALL CLASS 2A:10B-C FIRE EXTINGUISHER. TOP OF CONTROLS SHALL BE 48" MAX. A.F.F. MOUNT PER CFC 906.7.
134	FURNISH AND INSTALL CLASS 2A:10B-C FIRE EXTINGUISHER IN SEMI-RECESSED FIRE EXTINGUISHER CABINET. TOP OF CONTROLS SHALL BE 48" MAX. A.F.F. MOUNT PER CFC 906.7.
135	FURNISH AND INSTALL CLASS 2A:K FIRE EXTINGUISHER. TOP OF CONTROLS SHALL BE 48" MAX. A.F.F. MOUNT PER CFC 906.7.

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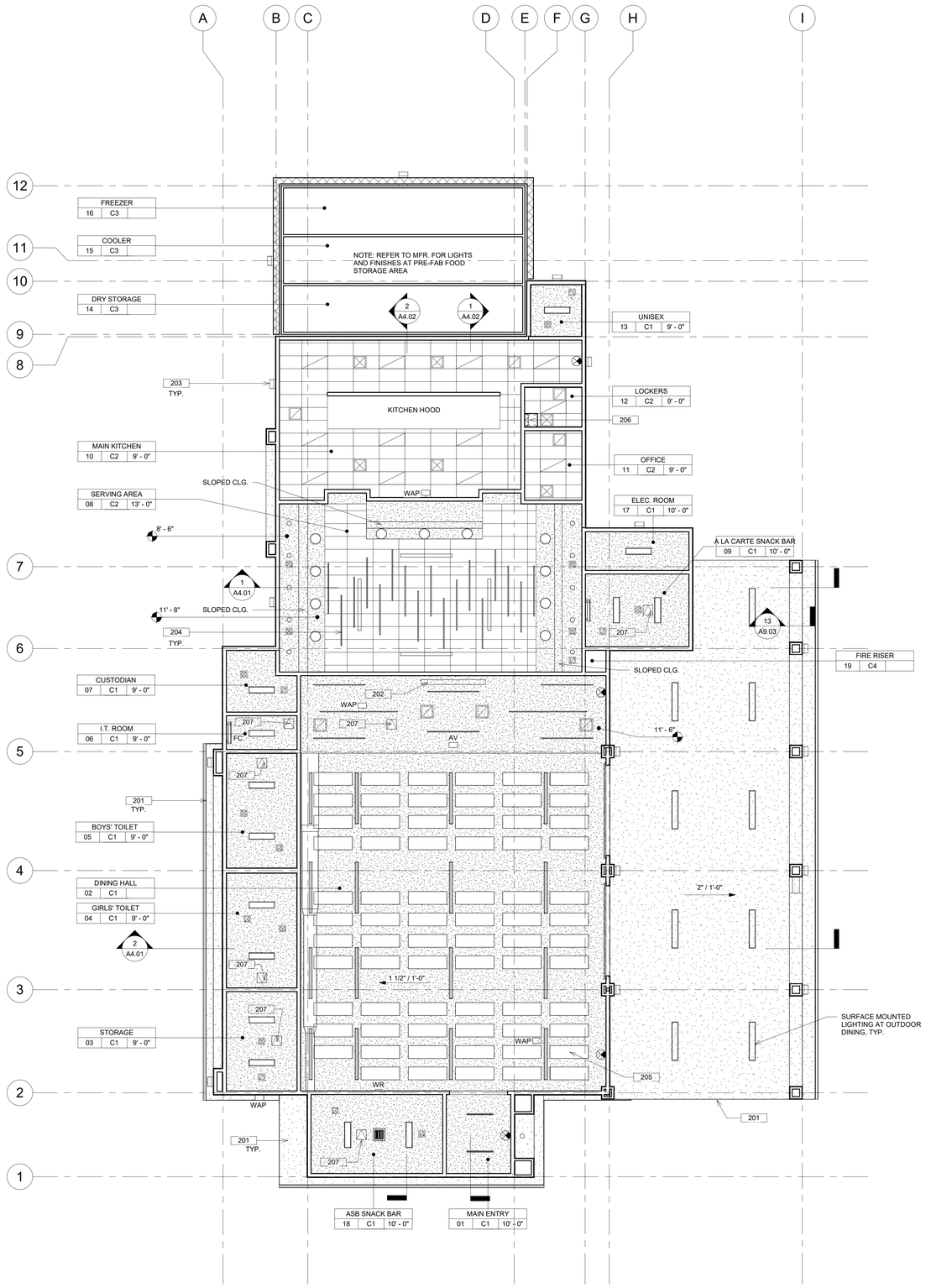
FLOOR PLAN

Job No. 2990.000
Date 01.30.2023
Sheet No. **A2.01**



1 BREAK BUILDING REFLECTED CEILING PLAN
1/8" = 1'-0"

REFLECTED CEILING PLAN RECONSTRUCTION NOTES

1. PROVIDE INTERIOR PAINT AND LEVEL 4 FINISH OVER 5/8" 'CEILING BOARD' GYPSUM BOARD AT ALL HARD LID CEILINGS LOCATIONS SHOWN.
2. PROVIDE STAINLESS STEEL, HINGED AND KEYED, ACCESS PANELS OF ADEQUATE SIZE WHERE REQUIRED TO ACCESS CONCEALED EQUIPMENT. ACCESS PANELS SHALL BE SIZED ACCORDINGLY FOR ACCESS REQUIRED. CONTRACTOR SHALL VERIFY LOCATIONS IN FIELD.
3. REFER TO SHEET A9.12 FOR ALL TYPICAL CEILING DETAILS.
4. REFER TO MECHANICAL & ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

REFLECTED CEILING LEGEND

- HARDLID GYP. BD. CEILING, SEE DETAIL 9/A9.12
- PLASTER FINISH AT EXTERIOR EAVES AND SOFFITS
- SURFACE MOUNTED LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS
- SURFACE MOUNTED LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS
- LINEAR PENDANT LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS
- 2X4 T-BAR LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS
- T-BAR CEILING GRID, SEE DETAILS ON SHEET A9.12
- SUPPLY REGISTER
- RETURN REGISTER
- EXHAUST FAN
- FC FAN COIL PER MECHANICAL DRAWINGS
- CASSETTE UNIT PER MECHANICAL DRAWINGS
- ILLUMINATED EXIT SIGN
- WAP WAP WIRELESS ACCESS POINT, WALL OR CEILING MOUNT, PER ELECTRICAL DRAWINGS
- AV AV AV WALL OR CEILING MOUNT, PER ELECTRICAL DRAWINGS
- (S) SPEAKER

ROOM NAME
| C# | X'-X"
ROOM NUMBER
CEILING HEIGHT
CEILING FINISH PER SCHEDULE

REFLECTED CEILING PLAN KEYNOTES

201	LINE OF ROOF OVERHANG
202	RECESSED PROJECTOR SCREEN
203	WALL-MOUNTED EXTERIOR LIGHT FIXTURE. SEE ELECTRICAL PLANS.
204	SOUNDSCAPES BLADES BY ARMSTRONG, SEE DETAIL 10/A9.12
205	LYRA PB CAPS CEILING PANELS BY ARMSTRONG
206	ROOF ACCESS HATCH, SEE DETAIL 14/A9.03
207	18" X 18" ACCESS PANEL

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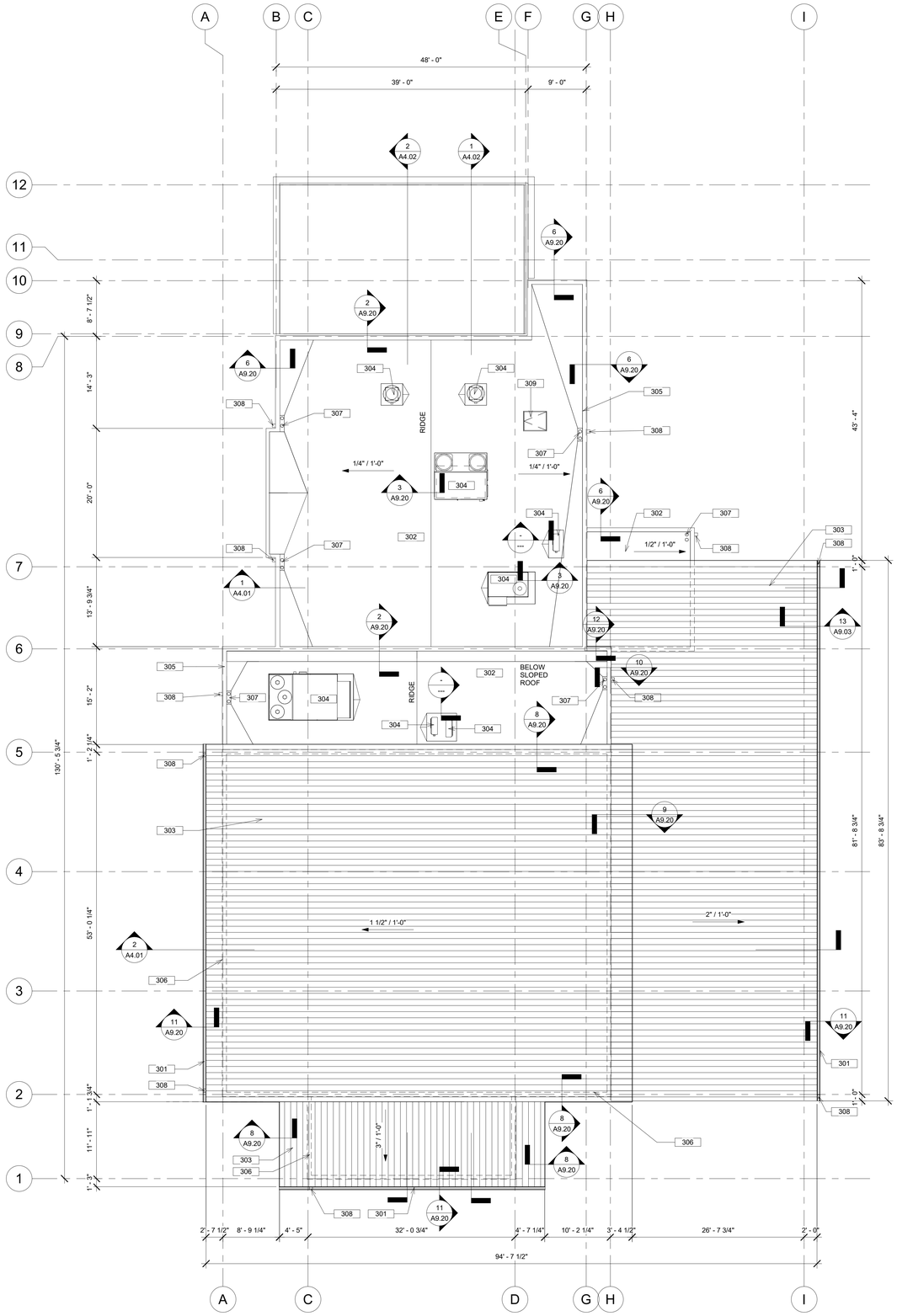
REFLECTED CEILING PLAN

Job No. 2990.000

Date 01.30.2023

Sheet No. **A2.02**



1 ROOF PLAN
1/8" = 1'-0"

ROOF PLAN NOTES

1. REFER TO SHEET A9.20 FOR ALL ROOF DETAILS

ROOF PLAN KEYNOTES

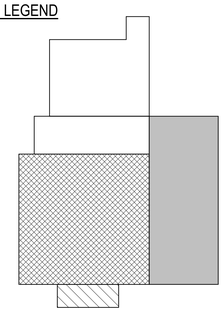
301	METAL FASCIA GUTTER BY GARLAND, SEE DETAIL 11/A9.20
302	BUILT-UP ROOFING, SEE DETAIL 1/A9.20. COLOR TO BE SELECTED BY OWNER FROM MANUFACTURER'S FULL SELECTION OF COLORS.
303	STANDING SEAM METAL ROOFING. COLOR TO BE SELECTED BY OWNER FROM MANUFACTURER'S FULL SELECTION OF COLORS.
304	ROOF-TOP UNIT PER MECHANICAL DRAWINGS.
305	PARAPET WALL, SEE DETAIL 4/A9.03
306	PERIMETER WALL BELOW
307	ROOF DRAIN AND OVERFLOOR DRAIN. SEE DETAILS 2/A2.03 & 5/A9.02.
308	SCUPPER TO DOWNSPOUT WITH CONNECTION TO STORM DRAIN BELOW GRADE. SEE DETAIL 7/A9.20 FOR SCUPPER.
309	ROOF ACCESS HATCH, SEE DETAIL 14/A9.03

ROOF LEGEND

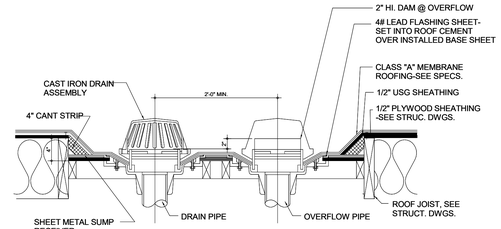
NOTE: SEE 12/A9.01 FOR GARLAND ROOFING FASTENER SCHEDULES.

ROOF LABELS:

- MAIN ROOF
- ENTRY ROOF
- OUTDOOR ROOF
- PARAPET ROOF



3 ROOF LEGEND
SCALE: NONE



ELEVATION

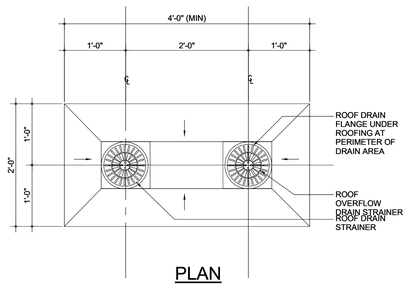
NOTES:

1. STEEL CLAMPING RINGS SHALL BE USED ON ALL ROOF & OVERFLOW DRAINS.

2. IF THE DRAIN SUMP EXCEEDS 4" BELOW THE DECK, WOODFIBER CANT STRIP SHALL BE INSTALLED TO MEET FLUSH WITH THE TOP OF THE SUMP. THE PLYWOOD CANT SHALL BE INSTALLED AT A 45° ANGLE WITH THE TOP & BOTTOM EDGES MITERED TO FIT FLUSH WITH THE SUBSTRATE.

3. AFTER COMPLETE INSTALLATION OF THE ROOFING SYSTEM, CONTRACTOR SHALL INSPECT & TEST ALL ROOF DRAINS TO ASSURE THAT NO CLOGGING OF THE DRAINAGE SYSTEM IS PRESENT. THE ROOF DRAIN LEADER SHOULD BE IN SUCH CONDITION THAT THE FULL DIAMETER OF THE DRAIN LEADER IS CLEAR.

4. OVERFLOW DRAIN SHALL BE PLACED @ 2'-0" O.C. FROM ROOF DRAIN.



PLAN

2 ROOF DRAIN & OVERFLOW DRAIN
1" = 1'-0"

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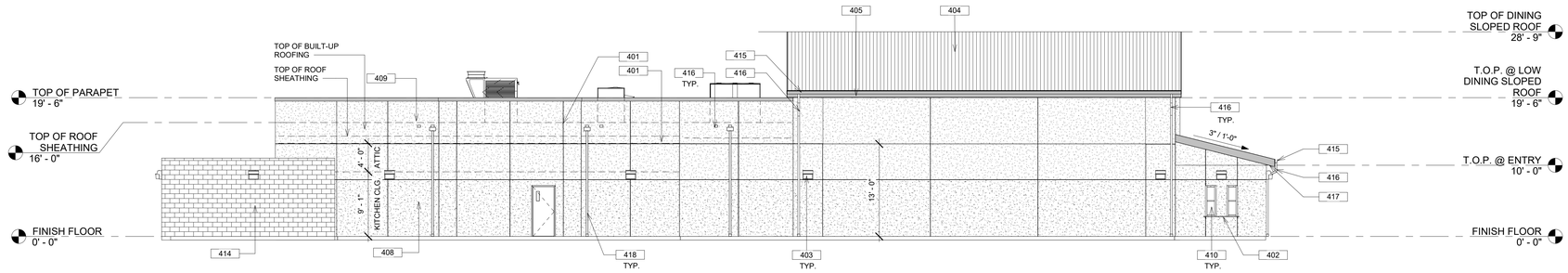
ROOF PLAN

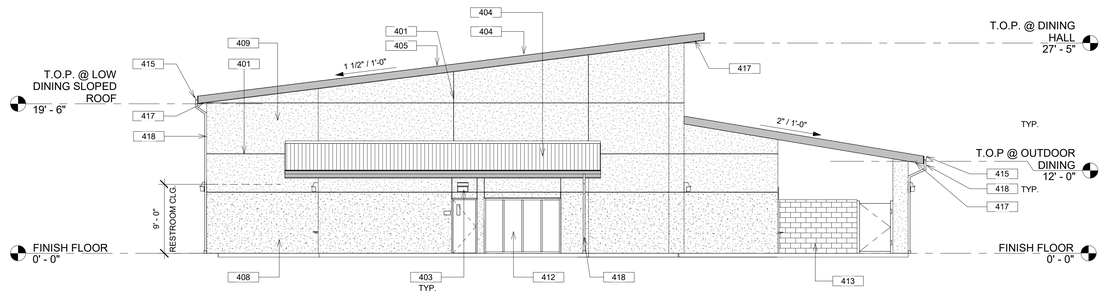
Job No. 2990.000

Date 01.30.2023

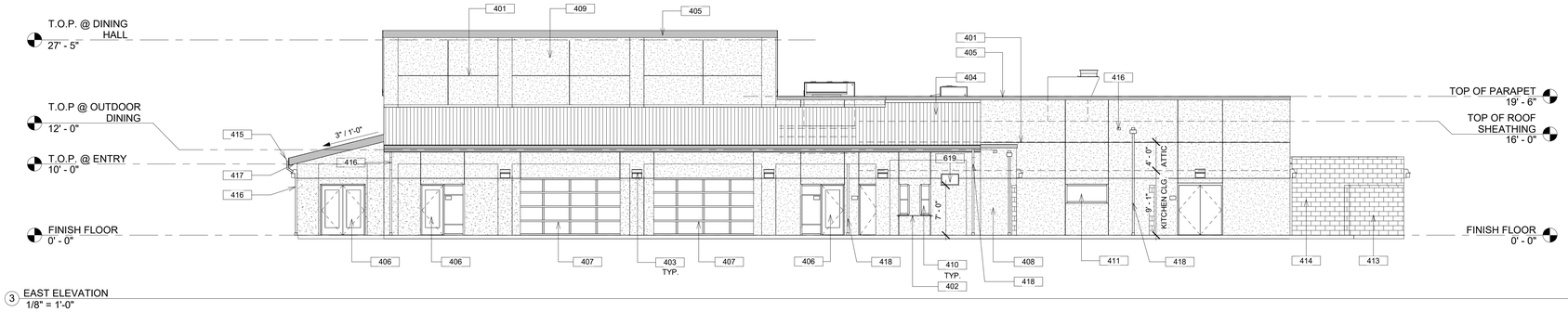
Sheet No. **A2.03**



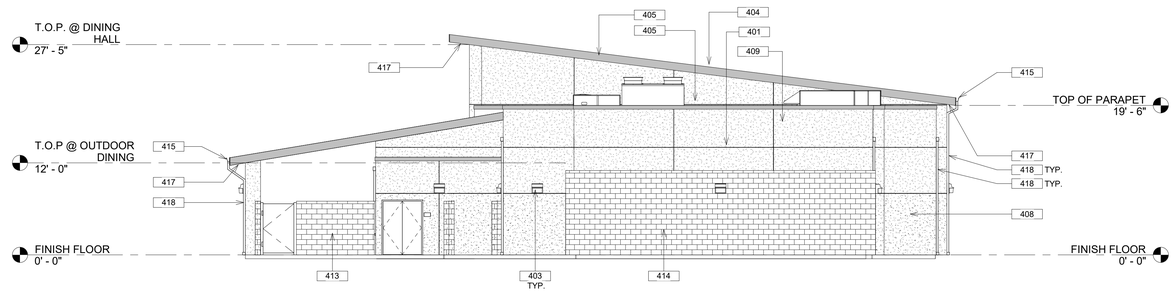
1 WEST ELEVATION
1/8" = 1'-0"



2 SOUTH ELEVATION
1/8" = 1'-0"



3 EAST ELEVATION
1/8" = 1'-0"



4 NORTH ELEVATION
1/8" = 1'-0"

EXTERIOR ELEVATION KEYNOTES

401	CONTROL JOINT, TYP. SEE DETAIL 15/A9.03
402	STAINLESS STEEL SHELF, ULINE H-7500
403	EXTERIOR LIGHT, TYP. SEE ELECTRICAL
404	STANDING SEAM METAL ROOFING, COLOR TO BE SELECTED BY ARCHITECT.
405	METAL EDGE FASCIA
406	ALUMINUM STOREFRONT DOOR, SEE DOOR SCHEDULE ON SHEET A7.01.
407	FULLVIEW VERTICAL ALUMINUM LIFT. COMMERCIAL GARAGE DOOR BY C.H.I. OVERHEAD DOORS, OR APPROVED EQUAL.
408	STUCCO FINISH COLOR 1. COLOR TO BE SELECTED BY ARCHITECT.
409	STUCCO FINISH COLOR 2. COLOR TO BE SELECTED BY ARCHITECT.
410	OPERABLE SERVING WINDOW. SEE WINDOW SCHEDULE ON SHEET A7.01 FOR SIZE.
411	DOUBLE GLAZED ALUMINUM WINDOW SYSTEM, TYP. SEE WINDOW SCHEDULE ON SHEET A7.01 FOR SIZE.
412	ALUMINUM STOREFRONT WINDOW SYSTEM, SEE WINDOW SCHEDULE ON SHEET A7.01 FOR SIZE.
413	7'-0" HIGH CMU WALL
414	11'-0" HIGH CMU WALL
415	GUTTER, SEE DETAIL 11/A9.20
416	OVERFLOW SPOUT, SEE DETAIL 5/A9.03
417	STUCCO EAVE
418	DOWNSPOUT, SEE DETAIL 18/A9.03
619	43" DIAGONAL WALL-MOUNTED TELEVISION. PROVIDE POWER AND DATA AT MOUNTING HEIGHT. SEE DETAIL 16/A9.02. SEE SPECS FOR MANUFACTURER AND MODEL.

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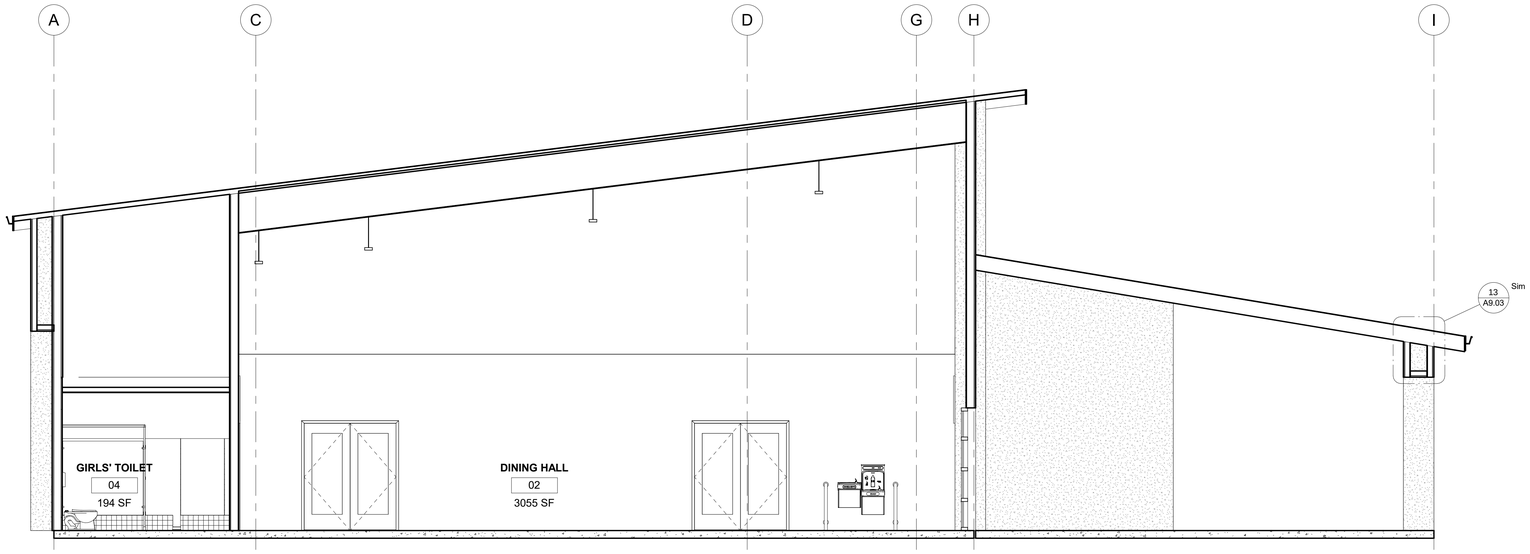
EXTERIOR ELEVATIONS

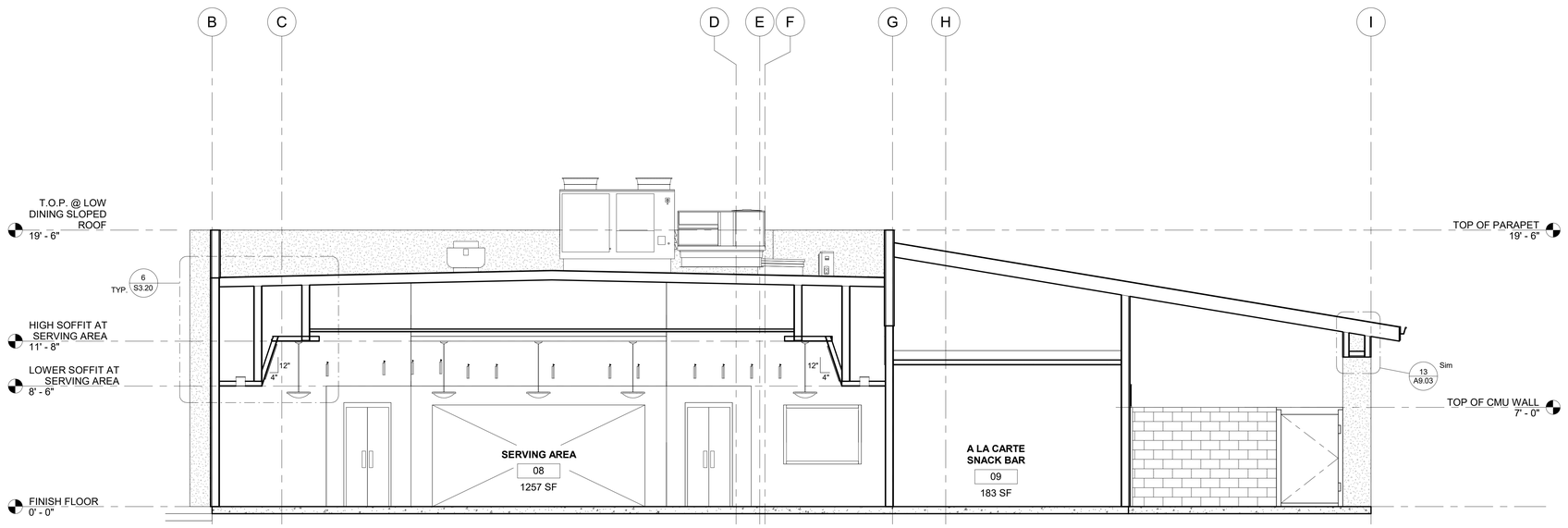
Job No. 2990.000

Sheet No. **A3.01**

Date 01.30.2023



2 SECTION - DINING HALL
1/4" = 1'-0"



1 SECTION - SERVING AREA
1/4" = 1'-0"

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DATE: 03/24/2023

FLEWELLING & MOODY
architects *for* education

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Los Angeles, California 90041
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Lancaster, California 93534
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An Employee Owned Corporation

ARCHITECT

LICENSED ARCHITECT
C – 26053
Ren. Date 08/31/2023
STATE OF CALIFORNIA

CONSULTANT

Drawn by:

Check by:

Revisions

No.	Date	Description

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared for a specific site. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Flewelling & Moody.

SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

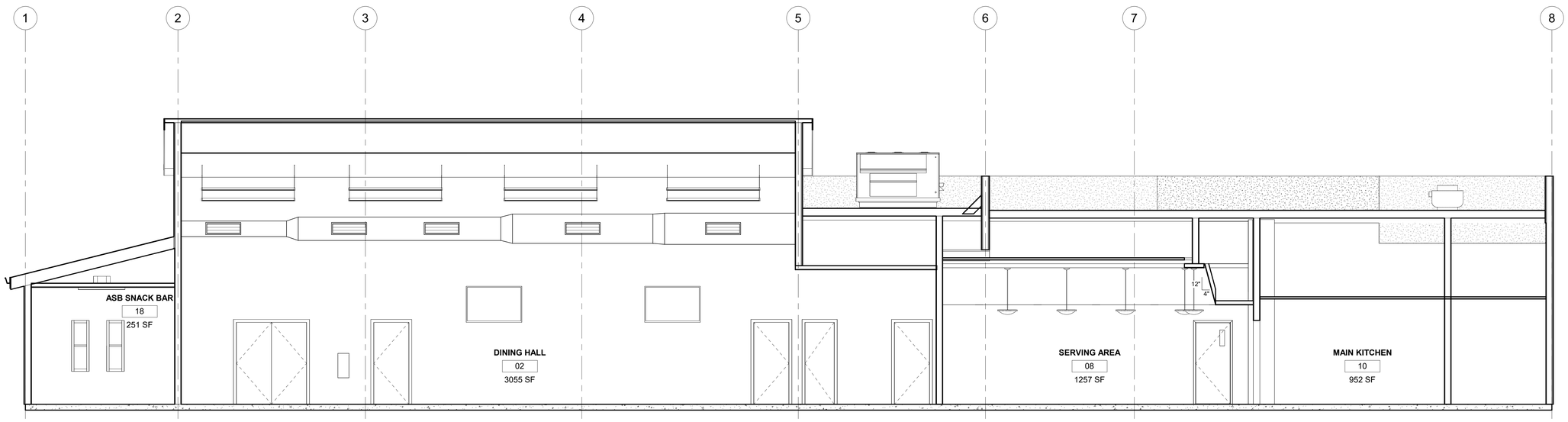
Drawing Title

BUILDING SECTIONS

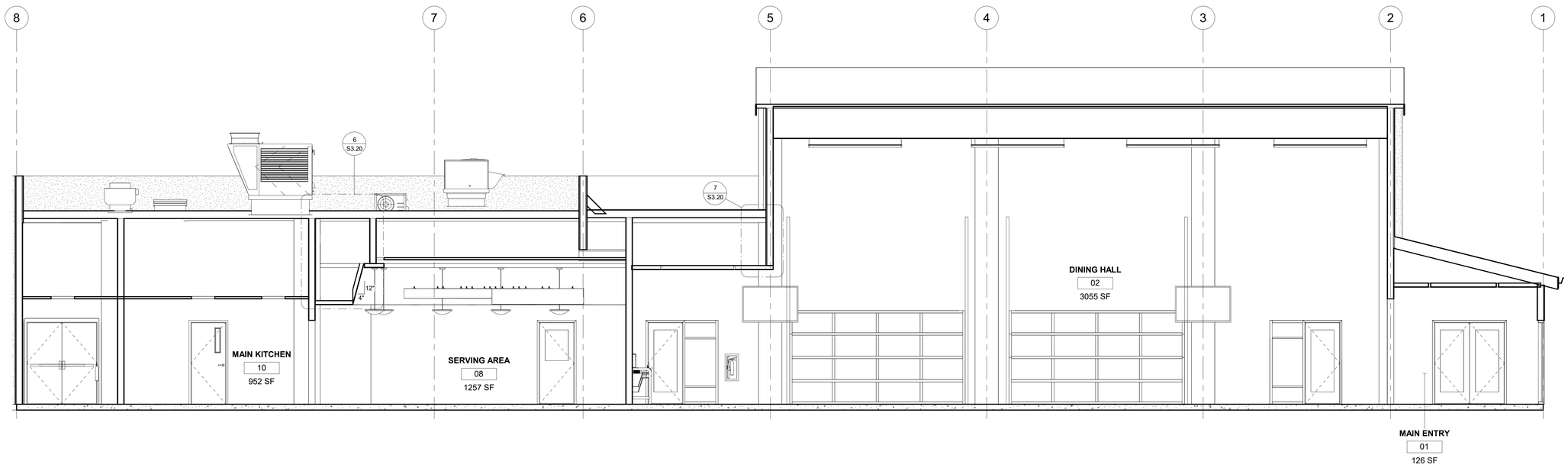
Job No. 2990.000

Date 01.30.2023

Sheet No. **A4.01**



2 Section 12
1/4" = 1'-0"



1 BUILDING SECTION
1/4" = 1'-0"

AGENCY

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122536 INC:
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ROSAMOND HIGH EARLY COLLEGE CAMPUS

2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

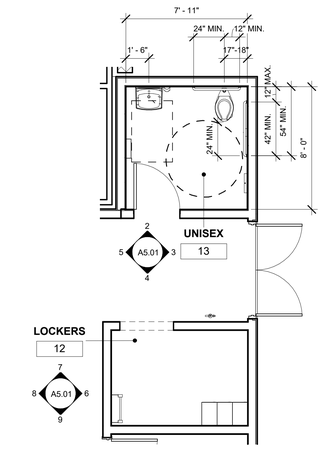
Drawing Title

BUILDING SECTIONS

Job No. 2990.000

Date 01.30.2023

Sheet No. **A4.02**



1 UNISEX TOILET 14 - ENLARGED PLAN
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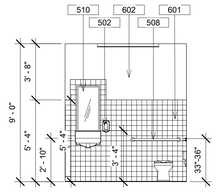

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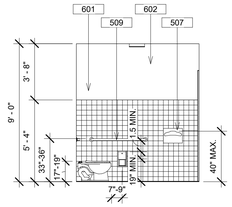

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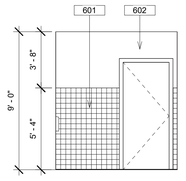

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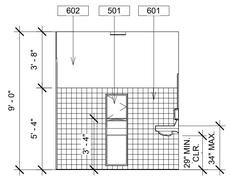

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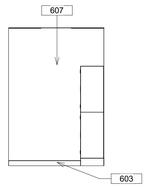
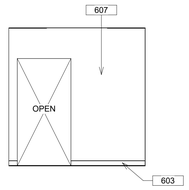


6 LOCKERS - NORTH ELEVATION
1/4" = 1'-0"



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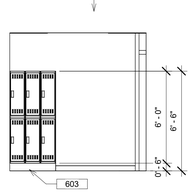
1/4" = 1'-0"

8 LOCKERS - SOUTH ELEVATION
1/4" = 1'-0"



9 LOCKERS - WEST ELEVATION
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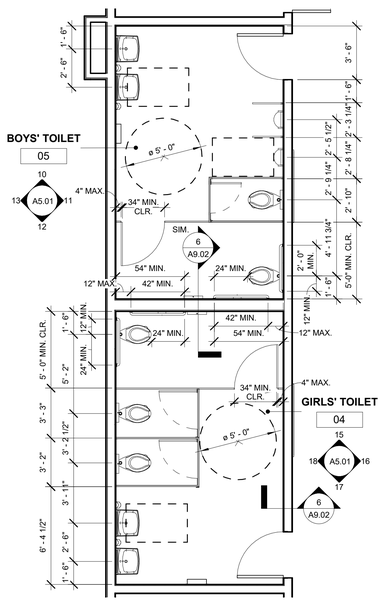

14 WOMENS & MENS TOILET - ENALRGED PLAN
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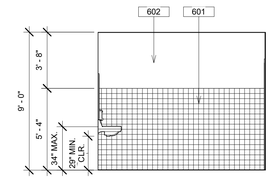

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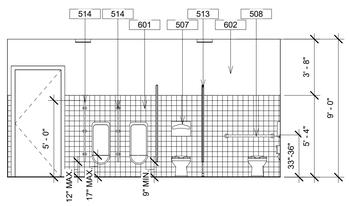
1/4" = 1'-0"



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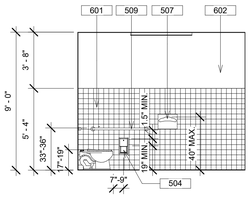

12 BOYS TOILET - SOUTH ELEVATION
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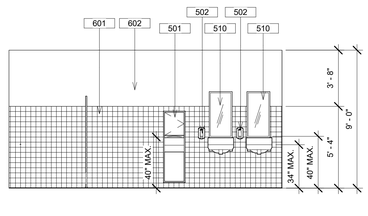
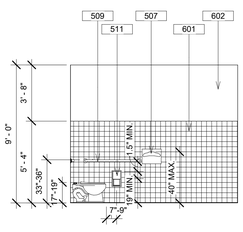
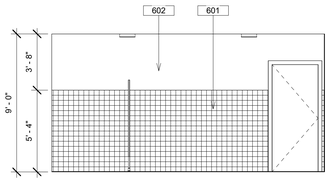


13 BOYS TOILET - WEST ELEVATION
1/4" = 1'-0"



15 GIRLS TOILET - NORTH ELEVATION
1/4" = 1'-0"



16 GIRLS TOILET - EAST ELEVATION
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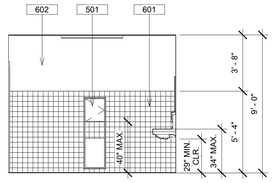

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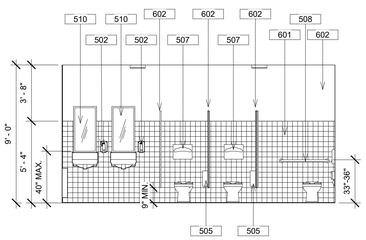
1/4" = 1'-0"



18 GIRLS TOILET - WEST ELEVATION
1/4" = 1'-0"

INTERIOR ELEVATION KEYNOTES

501	SEMI-RECECESSED PAPER TOWEL DISPENSER AND WASTE: B-3940
502	SURFACE MOUNTED SOAP DISPENSER: BOBRICK B-2111
504	RECESSED TOILET PAPER ROLL DISPENSER AT ACCESSIBLE STALL: BOBRICK B-4388
505	SURFACE MOUNTED TOILET PAPER ROLL DISPENSER AT STANDARD STALLS:
507	SURFACE MOUNTED TOILET SEAT COVER DISPENSER AT EACH TOILET STALL: BOBRICK B-5221
508	36" X 1.5" DIA. STAINLESS STEEL GRAB BAR AT ACCESSIBLE STALLS: BOBRICK B-5806X36, SEE DETAIL 9/A9.01
509	42 X 1.5" DIA. STAINLESS STEEL GRAB BAR AT ACCESSIBLE STALLS: BOBRICK B-5806X42, SEE DETAIL 9/A9.01
510	24" X 36" SURFACE MOUNTED MIRROR: BOBRICK B-165
511	RECECESSED PAPER TOWEL DISPENSER AND WASTE: B-369
513	SCRANTON 'HINY HIDERS' TOILET PARTITIONS WITH 36" WIDE DOOR FOR ACCESSIBLE COMPARTMENT AND 24" WIDE DOOR FOR REGULAR COMPARTMENTS. COLOR TO BE SELECTED BY ARCHITECT. HINGES SHALL BE INTEGRAL TYPE. PILASTERS SHALL BE MACHINED TO ACCEPT DOOR AND HINGE MECHANISM. HINGE MECHANISM SHALL CONSIST OF A TWO PIECE 1/2" DIAMETER NYLON PIN WITH CAMCATION AND A 3/16" STAINLESS STEEL PIN INSERTED INTO LOWER PORTION OF PILASTER ADN DOOR. DOOR CLOSERS SHALL BE FACTORY SET. DOOR LATCH HOUSING SHALL BE FABRICATED FROM HEAVY ALUMINUM WITH CLEAR ANODIZED FINISH. SURFACE MOUNTED AND THROUGH BOLDTED TO THE DOOR WITH ONE WAY BOLTS. SLIDE BOLT BUTTON SHALL BE HEAVY ALUMINUM. DOOR PULL: PULLS FOR ENCLOSURES FOR ACCESSIBLE STALLS SHALL BE ADA APPROVED, FABRICATED OF STAINLESS STEEL. COAT HOOK: COMBINATION HOOK AND RUBBER-TIPPED BUMPER, SIZED TO PREVENT DOOR FROM HITTING MOUNTED ACCESSIBILITY. DOOR STRIKE AND KEEPER: SURFACE MOUNTED LATCH UNIT DESIGNED FOR PHYSICAL DISABILITY ACCESSIBILITY, WITH COMBINATION RUBBER-FACED DOOR STRIKE AND KEEPER. PROVIDE WITH 'SCHOOL' SYSTEM CONTINUOUS MOUNTING BRACKETS.
514	SCRANTON 'HINY HIDERS' 1" THICK PLASTIC URINAL SCREEN, LENGTH AS SHOWN. COLOR TO BE SELECTED BY ARCHITECT. PROVIDE WITH 'SCHOOL' SYSTEM CONTINUOUS MOUNTING BRACKETS.
601	4" X 4" CERAMIC WALL TILE
602	FRP PANELING
603	4" HIGH TOPSET BASE, COLOR TO BE SELECTED BY ARCHITECT.
607	GYPSUM BOARD, PAINTED. COLOR TO BE SELECTED BY ARCHITECT.

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ENLARGED TOILET ROOM PLANS AND INTERIOR ELEVATIONS

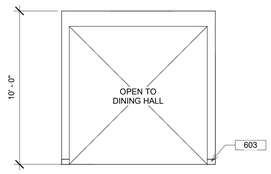
Job No. 2990.000

Date 01.30.2023

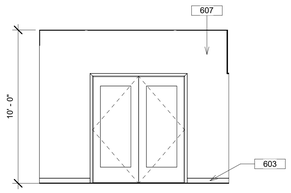
Sheet No. **A5.01**

INTERIOR ELEVATION KEYNOTES

601	4" X 4" CERAMIC WALL TILE
602	FRP PANELING
603	4" HIGH TOPSET BASE, COLOR TO BE SELECTED BY ARCHITECT.
605	MOP SINK. PROVIDE WATER.
607	GYPSUM BOARD, PAINTED. COLOR TO BE SELECTED BY ARCHITECT.
608	MOP RACK
611	OPERABLE SERVING WINDOW. SEE WINDOW SCHEDULE FOR SIZE.
613	STOREFRONT SYSTEM. SEE DOOR SCHEDULE ON SHEET A7.01.
614	KITCHEN EQUIPMENT PER KITCHEN EQUIPMENT DRAWINGS.
620	FURNISH AND INSTALL CLASS 2A:10B-C FIRE EXTINGUISHER. TOP OF CONTROLS SHALL BE 48" MAX. A.F.F. MOUNT PER CFC 906.7.



1 LOBBY 01 - NORTH ELEVATION
1/4" = 1'-0"



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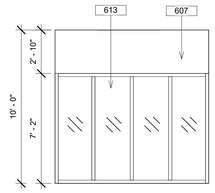

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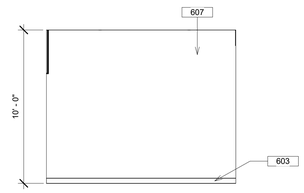

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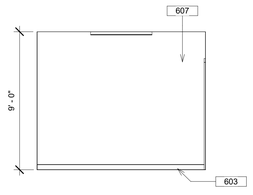

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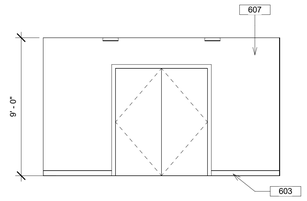

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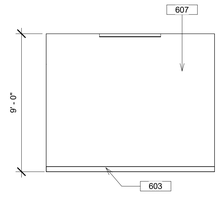

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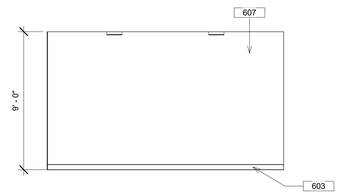

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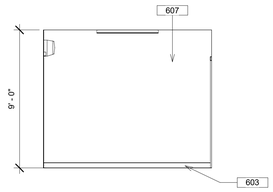
1/4" = 1'-0"



9 I.T. ROOM 06 - NORTH ELEVATION
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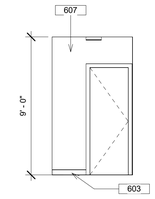

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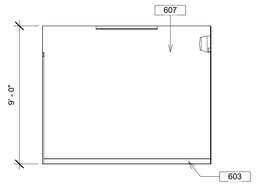

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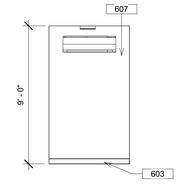

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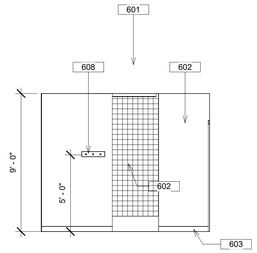

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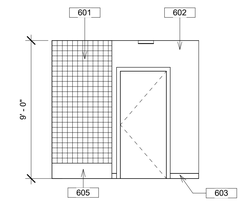

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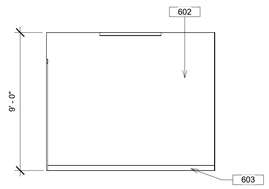
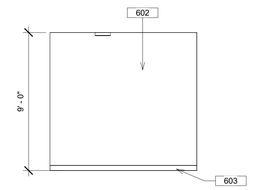
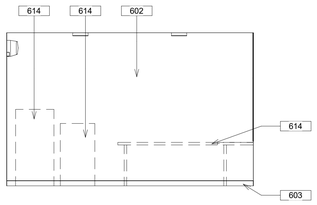


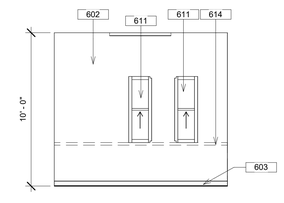
15 CUSTODIAN 07 - SOUTH ELEVATION
1/4" = 1'-0"



16 CUSTODIAN 07 - WEST ELEVATION
1/4" = 1'-0"



17 A LA CARTE SNACK BAR 09 - NORTH ELEVATION
1/4" = 1'-0"



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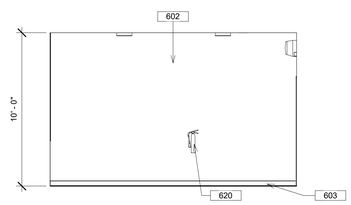
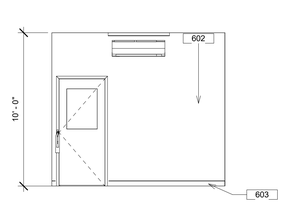
1/4" = 1'-0"



19 A LA CARTE SNACK BAR 09 - SOUTH ELEVATION
1/4" = 1'-0"



20 A LA CARTE SNACK BAR 09 - WEST ELEVATION
1/4" = 1'-0"

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C – 26053
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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

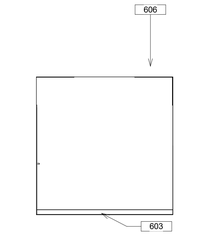
Drawing Title

INTERIOR ELEVATIONS

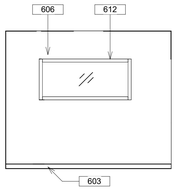
Job No.
2990.000

Date
01.30.2023

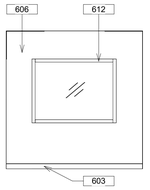
Sheet No.
A5.02



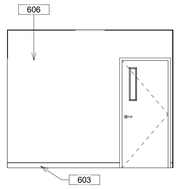
1 OFFICE 11 - NORTH ELEVATION
1/4" = 1'-0"



2 OFFICE 11 - EAST ELEVATION
1/4" = 1'-0"



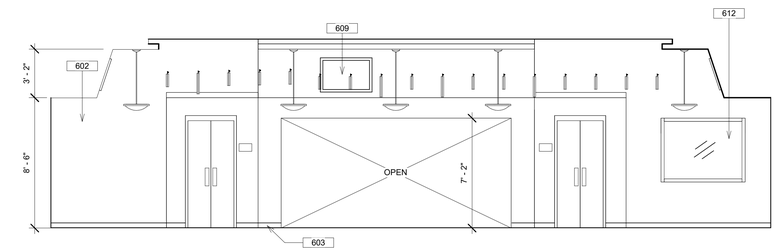
3 OFFICE 11 - SOUTH ELEVATION
1/4" = 1'-0"



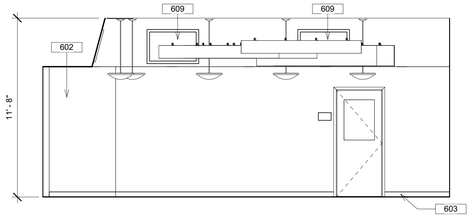
4 OFFICE 11 - WEST ELEVATION
1/4" = 1'-0"

INTERIOR ELEVATION KEYNOTES

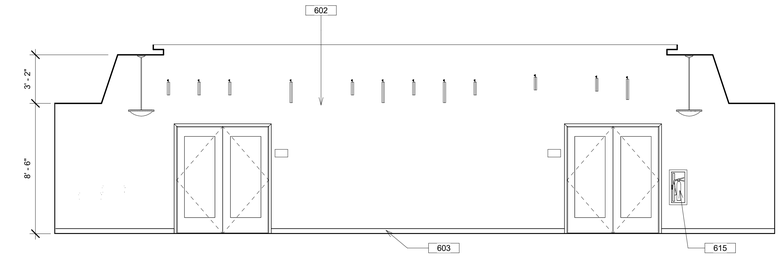
602	FRP PANELING
603	4" HIGH TOPSET BASE, COLOR TO BE SELECTED BY ARCHITECT.
606	FABRIC TACKABLE PANELS ON 1/2" TACKABLE SUBSTRATE TO 6" ABOVE CEILING. COLOR TO BE SELECTED BY ARCHITECT.
609	32" DIAGONAL WALL-MOUNTED TELEVISION. PROVIDE POWER AND DATA AT MOUNTING HEIGHT. SEE DETAIL 16/A9.02. SEE SPECS FOR MANUFACTURER AND MODEL.
612	DOUBLE GLAZED ALUMINUM WINDOW SYSTEM, TYP. SEE WINDOW SCHEDULE ON SHEET A7.01 FOR SIZE.
615	FURNISH AND INSTALL CLASS 2A:10B-C FIRE EXTINGUISHER IN SEMI-RECESSED FIRE EXTINGUISHER CABINET, SEE DETAIL 4/A9.02
620	FURNISH AND INSTALL CLASS 2A:10B-C FIRE EXTINGUISHER. TOP OF CONTROLS SHALL BE 48" MAX. A.F.F. MOUNT PER CFC 906.7.
621	FURNISH AND INSTALL CLASS 2A:K FIRE EXTINGUISHER. TOP OF CONTROLS SHALL BE 48" MAX. A.F.F. MOUNT PER CFC 906.7.



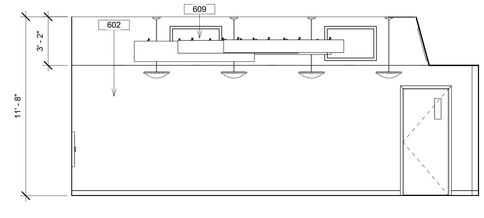
5 SERVING ROOM 08 - NORTH ELEVATION
1/4" = 1'-0"



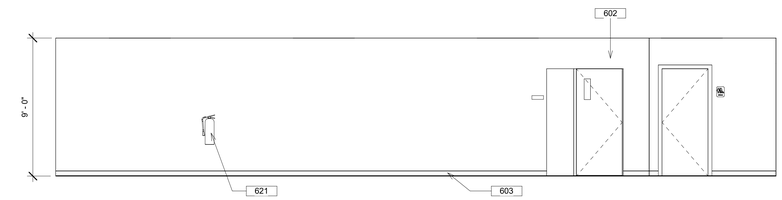
6 SERVING ROOM 08 - EAST ELEVATION
1/4" = 1'-0"



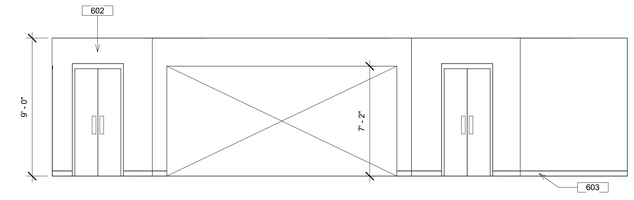
7 SERVING ROOM 08 - SOUTH ELEVATION
1/4" = 1'-0"



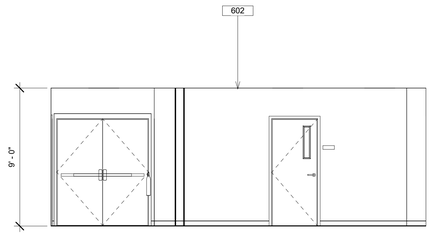
8 SERVING ROOM 08 - WEST ELEVATION
1/4" = 1'-0"



9 MAIN KITCHEN 10 - NORTH ELEVATION
1/4" = 1'-0"



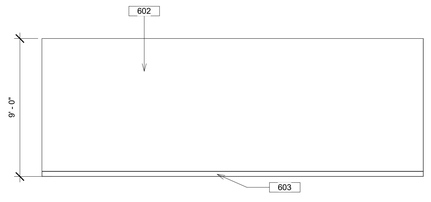
10 MAIN KITCHEN 10 - SOUTH ELEVATION
1/4" = 1'-0"



11 MAIN KITCHEN 10 - EAST ELEVATION
1/4" = 1'-0"

12 MAIN KITCHEN 10 - NORTH ELEVATION CENTER WALL
1/4" = 1'-0"

13 MAIN KITCHEN 10 - SOUTH ELEVATION CENTER WALL
1/4" = 1'-0"



14 MAIN KITCHEN 10 - WEST ELEVATION
1/4" = 1'-0"

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LICENSED ARCHITECT
JOSEPH A. FLEWELLING
C - 26053
Ren. Date 08/31/2023
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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

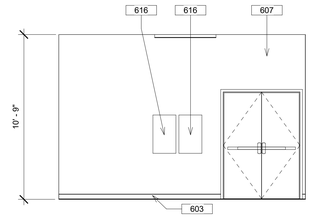
Drawing Title

INTERIOR ELEVATIONS

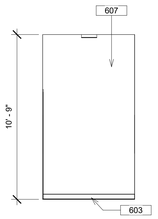
Job No. 2990.000

Date 01.30.2023

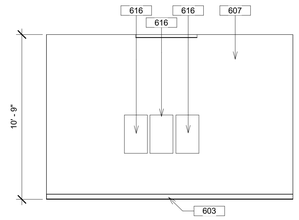
Sheet No. **A5.03**



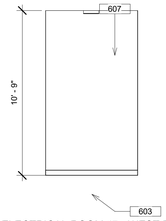
1 ELECTRICAL ROOM 17 - NORTH ELEVATION
1/4" = 1'-0"



2 ELECTRICAL ROOM 17 - EAST ELEVATION
1/4" = 1'-0"



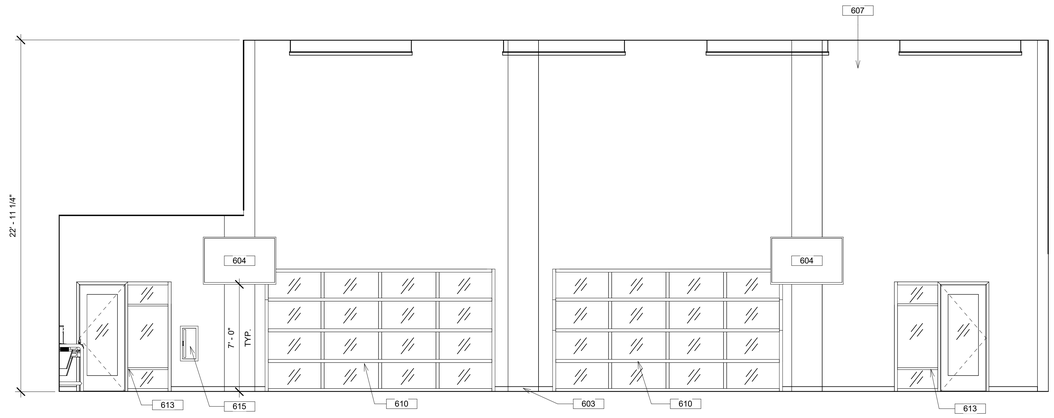
3 ELECTRICAL ROOM 17 - SOUTH ELEVATION
1/4" = 1'-0"



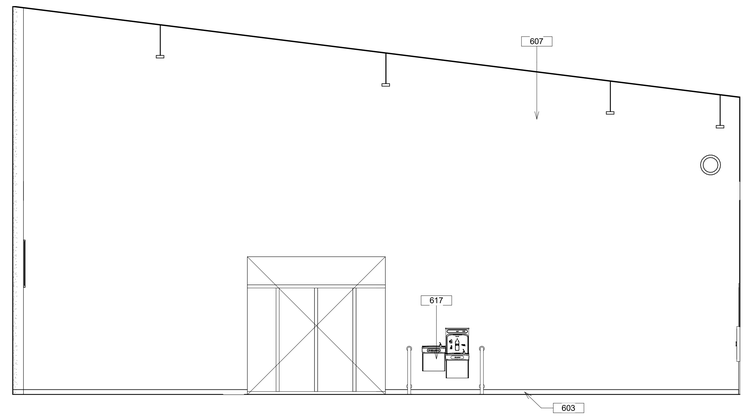
4 ELECTRICAL ROOM 17 - WEST ELEVATION
1/4" = 1'-0"

INTERIOR ELEVATION KEYNOTES

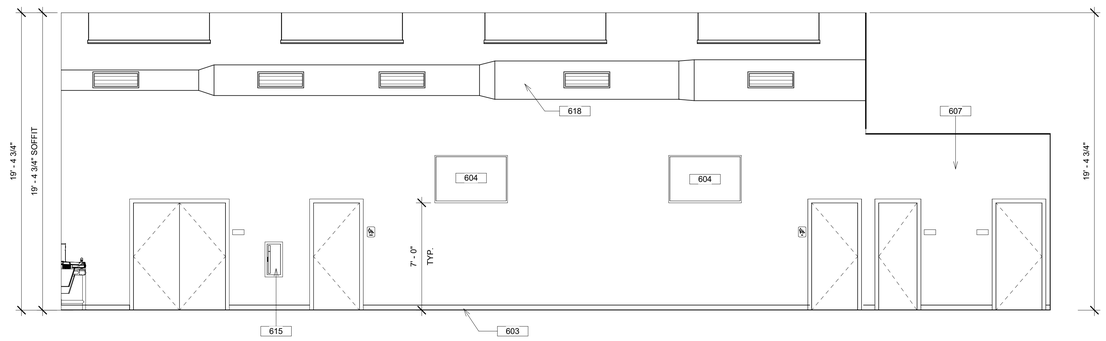
602	FRP PANELING
603	4" HIGH TOPSET BASE, COLOR TO BE SELECTED BY ARCHITECT.
604	65" DIAGONAL WALL-MOUNTED TELEVISION. PROVIDE POWER AND DATA AT MOUNTING HEIGHT. SEE DETAIL 16/A9.02. SEE SPECS FOR MANUFACTURER AND MODEL.
606	FABRIC TACKABLE PANELS ON 1/2" TACKABLE SUBSTRATE TO 6" ABOVE CEILING. COLOR TO BE SELECTED BY ARCHITECT.
607	GYPSUM BOARD, PAINTED. COLOR TO BE SELECTED BY ARCHITECT.
610	FULLVIEW VERTICAL ALUMINUM LIFT. SEE DOOR SCHEDULE ON SHEET A7.01.
611	OPERABLE SERVING WINDOW. SEE WINDOW SCHEDULE FOR SIZE.
613	STOREFRONT SYSTEM. SEE DOOR SCHEDULE ON SHEET A7.01.
614	KITCHEN EQUIPMENT PER KITCHEN EQUIPMENT DRAWINGS.
615	FURNISH AND INSTALL CLASS 2A:10B-C FIRE EXTINGUISHER IN SEMI-RECESSED FIRE EXTINGUISHER CABINET, SEE DETAIL 4/A9.02
616	ELECTRICAL PANELS
617	DRINKING FOUNTAIN, SEE DETAILS 1/A9.02 & 2/A9.02.
618	EXPOSED MECHANICAL DUCTING, SEE MECHANICAL DRAWINGS
620	FURNISH AND INSTALL CLASS 2A:10B-C FIRE EXTINGUISHER. TOP OF CONTROLS SHALL BE 48" MAX. A.F.F. MOUNT PER CFC 906.7.



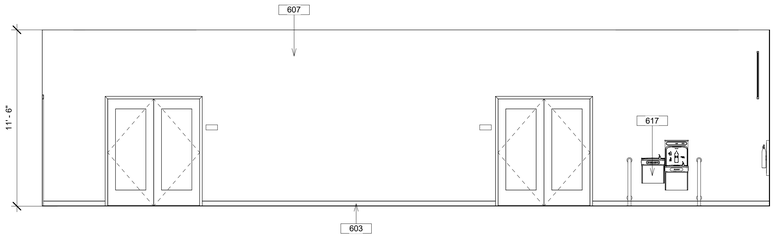
5 DINING HALL 02 - EAST ELEVATION
1/4" = 1'-0"



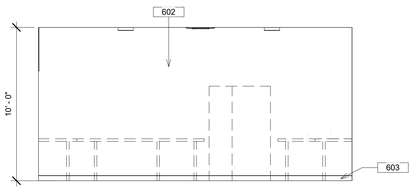
6 DINING HALL 02 - SOUTH ELEVATION
1/4" = 1'-0"



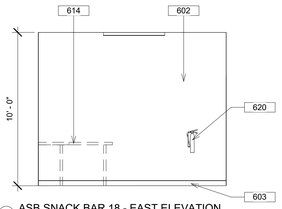
7 DINING HALL 02 - WEST ELEVATION
1/4" = 1'-0"



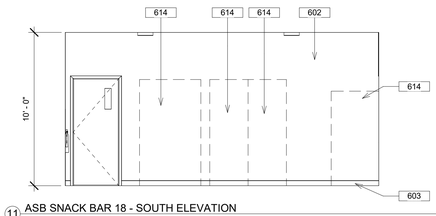
8 DINING HALL 02 - NORTH ELEVATION
1/4" = 1'-0"



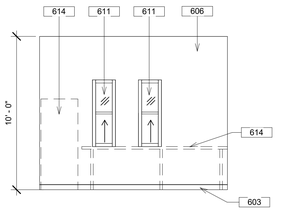
9 ASB SNACK BAR 18 - NORTH ELEVATION
1/4" = 1'-0"



10 ASB SNACK BAR 18 - EAST ELEVATION
1/4" = 1'-0"



11 ASB SNACK BAR 18 - SOUTH ELEVATION
1/4" = 1'-0"



12 ASB SNACK BAR 18 - WEST ELEVATION
1/4" = 1'-0"

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ROSAMOND HIGH EARLY COLLEGE CAMPUS

2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

Drawing Title

INTERIOR ELEVATIONS

Job No. 2990.000

Sheet No. **A5.04**

Date 01.30.2023

INTERIOR FINISH SCHEDULE						
ROOM #	ROOM NAME	FLOOR	BASE	WALLS	CEILING	REMARKS
01	MAIN ENTRY	F1	B1	W1	C1	
02	DINING HALL	F1	B1	W1	C1	
03	STORAGE	F2	B1	W1	C1	
04	GIRLS' TOILET	F4	B2	W2	C1	
05	BOYS' TOILET	F4	B2	W2	C1	
06	I.T. ROOM	F2	B1	W1	C1	
07	CUSTODIAN	F2	B1	W1	C1	
08	SERVING AREA	F3	B1	W3	C2	
09	A LA CARTE SNACK BAR	F3	B1	W3	C1	
10	MAIN KITCHEN	F3	B1	W3	C2	
11	OFFICE	F1	B1	W1	C2	
12	LOCKERS	F3	B1	W1	C2	
13	UNISEX	F4	B2	W2	C1	
14	DRY STORAGE	F5	B1	W4	C3	
15	COOLER	F5	B1	W4	C3	
16	FREEZER	F5	B1	W4	C3	
17	ELEC. ROOM	F2	B1	W1	C1	
18	ASB SNACK BAR	F3	B1	W3	C1	
19	FIRE RISER	F3	B1	W1	C4	

FLOOR FINISHES

F1 LVT
F2 VCT
F3 SEALED CONCRETE
F4 CERAMIC TILE
F5 PRE-FAB PER MANUFACTURER

WALL FINISHES

W1 5/8" GYPSUM BOARD, PAINTED
W2 CERAMIC TILE WAINSCOT WITH FRP ABOVE
W3 FRP FULL HEIGHT
W4 PRE-FAB PER MANUFACTURER

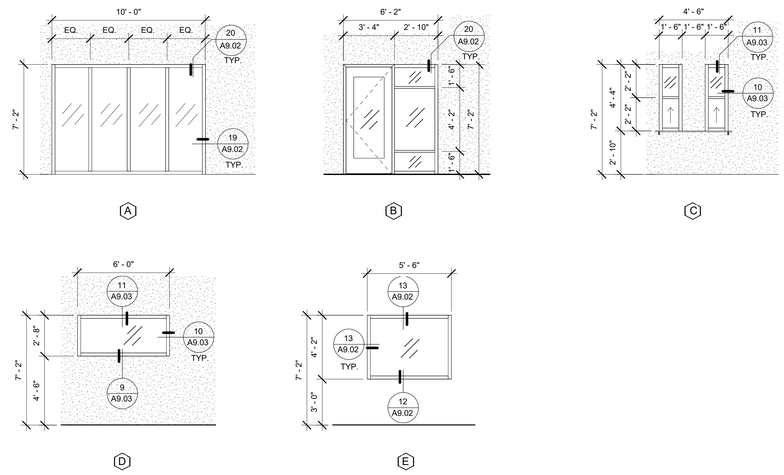
BASE FINISHES

B1 RUBBER TOP BASE
B2 CERAMIC TILE COVE BASE

CEILING FINISHES

C1 GYPSUM BOARD HARD LID CEILING
C2 SUSPENDED TBAR CEILING
C3 PRE-FAB PER MANUFACTURER
C4 OPEN EXPOSED STRUCTURE

WINDOW TYPES



DOOR SCHEDULE												
DOOR #	TYPE	SIZE	FRAME MATERIAL	DOOR MATERIAL	HARDWARE SET	SILL	JAMB	HEAD	DOOR SIGNAGE	WALL SIGNAGE PUSH	WALL SIGNAGE PULL	REMARKS
01	G	PR 3'-0" X 7'-0"	HM	HM	01	8/A9.03	7/A9.03	6/A9.03		8/A9.01	4/A9.01	
02	H	EXT 3'-0" X 7'-0"	HM	HM	02	8/A9.03	7/A9.03	6/A9.03			4/A9.01	
03	J	14'-0" X 8'-0" GLASS ROLL-UP DOOR	HM	ALUM	03					-	-	
04	J	14'-0" X 8'-0" GLASS ROLL-UP DOOR	HM	ALUM	03					-	-	
06	H	EXT 3'-0" X 7'-0"	HM	HM	04	8/A9.03	7/A9.03	6/A9.03			4/A9.01	
07	D	EXT 2'-6" X 7'-0"	HM	HM	05	1/A9.03	2/A9.03	3/A9.03			4/A9.01	
08	A1	PR 2'-6" x 7'-0"	HM	HM	06	1/A9.03	2/A9.03	3/A9.03			4/A9.01	
09	A	PR 3'-0" x 7'-0"	HM	HM	07	1/A9.03	2/A9.03	3/A9.03			4/A9.01	
10	B	3'-0" X 7'-0"	HM	HM	08	1/A9.03	2/A9.03	3/A9.03		8/A9.01	4/A9.01	
11	C	3'-0" x 7'-0"	HM	SC	09	9/A9.02	8/A9.02	7/A9.02				
12	-	5'-0" X 7'-0" OPNG.			10							
13	B	3'-0" X 7'-0"	HM	SC	11	9/A9.02	8/A9.02	7/A9.02				
14	B	3'-0" X 7'-0"	HM	SC	11	9/A9.02	8/A9.02	7/A9.02				
15	-	3'-6" X 7'-0" OPNG.			12							
16	B	3'-0" X 7'-0"	HM	SC	13	9/A9.02	8/A9.02	7/A9.02		4/A9.01		
17	F	PR 1'-6" X 7'-0" DOUBLE ACTION	HM	SC	14	9/A9.02	8/A9.02	7/A9.02		4/A9.01	4/A9.01	
18	F	PR 1'-6" X 7'-0" DOUBLE ACTION	HM	SC	14	9/A9.02	8/A9.02	7/A9.02		4/A9.01	4/A9.01	
19	B2	3'-0" x 7'-0"	HM	SC	15	9/A9.02	8/A9.02	7/A9.02		4/A9.01		
20	G	PR 3'-0" X 7'-0"	HM	SC	16	9/A9.02	8/A9.02	7/A9.02		4/A9.01	4/A9.01	
21	G	PR 3'-0" X 7'-0"	HM	SC	16	9/A9.02	8/A9.02	7/A9.02		4/A9.01	4/A9.01	
22	C	3'-0" x 7'-0"	HM	SC	17	9/A9.02	8/A9.02	7/A9.02		4/A9.01	-	
23	D	2'-6" x 7'-0"	HM	SC	18	9/A9.02	8/A9.02	7/A9.02		-	4/A9.01	
24	C	3'-0" x 7'-0"	HM	SC	19	9/A9.02	8/A9.02	7/A9.02	5B/A9.01	6B/A9.01	-	
25	C	3'-0" x 7'-0"	HM	SC	19	9/A9.02	8/A9.02	7/A9.02	5C/A9.01	6C/A9.01	-	
26	E	PR 3'-0" X 7'-0"	HM	SC	20	9/A9.02	8/A9.02	7/A9.02		-	4/A9.01	
27	-	5'-0" X 7'-0" OPNG.										
28	-	9'-0" X 9'-0" OPNG.										
29	-	15'-0" X 7'-2" OPNG.										
30	B	3'-0" X 7'-0"	HM	HM	04	8/A9.03	7/A9.03	6/A9.03			4/A9.01	

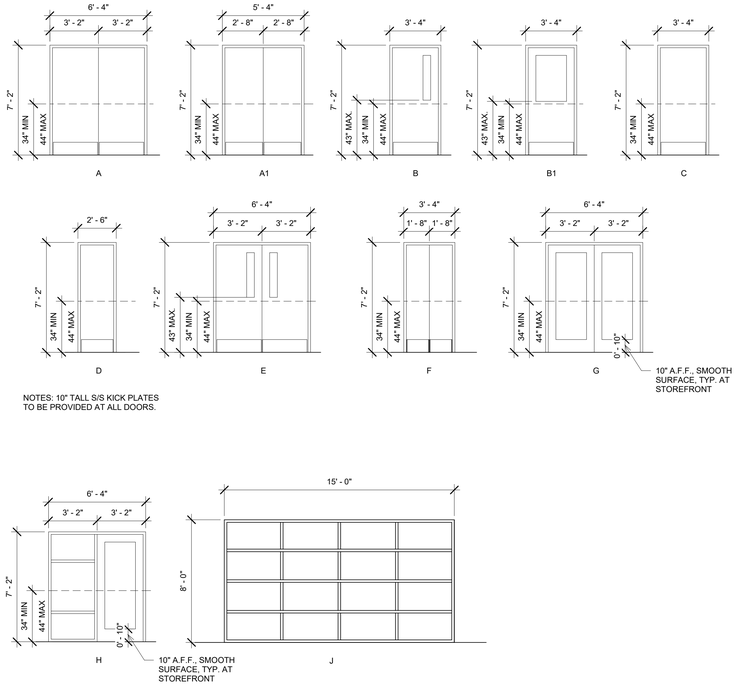
ABBREVIATIONS

(E)	EXISTING	MN	MINUTE
HC	HOLLOW CORE	(N)	NEW
HDWR	HARDWARE	PH	PANIC HARDWARE
HM	HOLLOW METAL	PR	PAIR
MAT'L	MATERIAL	TH	THRESHOLD
MC	MINERAL CORE	SC	SOLID CORE WOOD
ALUM	ALUMINUM	WD	WOOD
CR	CARD READER		
F CR	FUTRUE CARD READER		

GENERAL NOTES:

1. SUBMIT DOOR SIGNAGE LIST TO ARCHITECT FOR FINAL APPROVAL PRIOR TO FABRICATION.
2. EXIT DOORS: OPENABLE AT ALL TIMES FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
3. PANIC HARDWARE SHALL BE MOUNTED 34" TO 44" ABOVE FINISHED FLOOR SURFACE. THE UNLATCHING FORCE SHALL NOT EXCEED 15# APPLIED IN THE DIRECTION OF TRAVEL. PANIC HARDWARE SHALL COMPLY WITH CBC SECTION 1008.1.10
4. GLAZING IN DOORS, ADJACENT TO DOORS, OR IN WINDOWS PER CBC 2406.4 SHALL BE TEMPERED SAFETY GLASS.
5. THE LEVER OF LEVER ACTUATED LATCHES OR LOCKS SHALL BE CURVED WITH A RETURN TO WITHIN 1/2" OF THE DOOR (TO PREVENT CATCHING ON CLOTHING OF PERSONS DURING EGRESS). CBC 1010.1.9.1
6. NO THUMB LATCHES OR KEYED CYLINDER DEAD BOLTS ARE ALLOWED ON ANY DOORS UNLESS OPERATED BY A SINGLE ACTION WITH A LEVER FROM THE INSIDE OF THE AREA SERVED. CFC SEC. 1010.1.9.3.

DOOR TYPES



NOTES: 10" TALL S/S KICK PLATES TO BE PROVIDED AT ALL DOORS.

AGENCY

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122536 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/24/2023

FLEWELLING & MOODY
architects *for* education

HEADQUARTERS OFFICE:
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Los Angeles, California 90041
323.543.8300 fax 323.543.8198
E-Mail: fm-losangeles@flewelling-moody.com

ANTELOPE VALLEY OFFICE:
1035 West Lancaster Bouldvard
Lancaster, California 93534
661.949.0771 FAX 661.949.2843
E-Mail: fm-lancaster@flewelling-moody.com

An Employee Owned Corporation

ARCHITECT

LICENSED ARCHITECT
C – 26053
Rev. Date 08/31/2023
STATE OF CALIFORNIA

CONSULTANT

Drawn by:
Check by:
Revisions

No.	Date	Description

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared for a specific site. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Flewelling & Moody.

SOUTHERN KERN UNIFIED SCHOOL DISTRICT

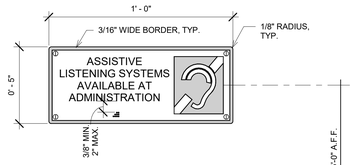
ROSAMOND HIGH EARLY COLLEGE CAMPUS

2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

Drawing Title

SCHEDULES

Job No. 2990.000
Date 01.30.2023
Sheet No. **A7.01**



ASSISTIVE LISTENING SYSTEMS SHALL BE PROVIDED FOR PERSONS WITH HEARING IMPAIRMENTS IN ACCORDANCE WITH SECTION 11B-219 AND SHALL COMPLY WITH SECTION 11B-706.

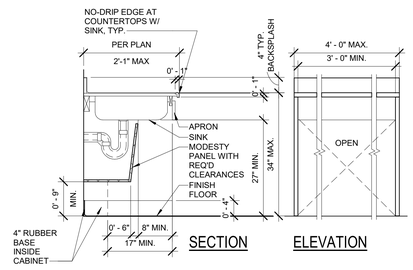
THE MINIMUM NUMBER OF RECEIVERS TO BE PROVIDED SHALL BE EQUAL TO 4% OF THE TOTAL OCCUPANT LOAD IN EACH BUILDING, BUT IN NO CASE LESS THAN TWO (2).

25% MINIMUM OF RECIVERS PROVIDED, BUT NO FEWER THAN TWO (2) SHALL BE HEARING-AID COMPATIBLE IN ACCORDANCE WITH SECTION 11B-706.3.

NOTES:

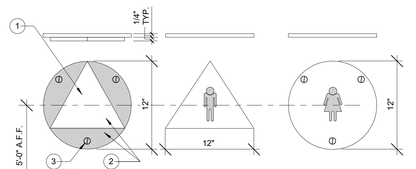
1. CHARACTER TYPE: CHARACTERS ON SIGNS SHALL BE RAISED 1/32" (0.794 MM) MINIMUM AND SHALL BE SANS SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE 2 BRAILLE (SEE NOTE 5).
2. CHARACTER SIZE: RAISED CHARACTERS SHALL BE A MINIMUM OF 5/8" AND MAXIMUM OF 2" HIGH.
3. FINISH AND CONTRAST: CONTRAST BETWEEN CHARACTERS, SYMBOLS AND THEIR BACKGROUND MUST BE 70% MIN. AND HAVE A NON-GLARE FINISH. 11B-703.5.1.
4. PROPORTIONS: CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60% MINIMUM AND 110% MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I". 11B-703.5.4.
5. CHARACTER HEIGHT: MINIMUM CHARACTER HEIGHT SHALL COMPLY WITH TABLE 11B-703.5.5. VIEWING DISTANCE SHALL BE MEASURED AS THE HORIZONTAL DISTANCE BETWEEN THE CHARACTER AND AN OBSTRUCTION PREVENTING FURTHER APPROACH TOWARDS THE SIGN. CHARACTER HEIGHT SHALL BE BASED ON THE UPPERCASE LETTER "I". 11B-703.5.5.

(11) ASSISTIVE LISTENING SIGN
3" = 1'-0"



NOTE:
1. HOT WATER AND DRAIN PIPES UNDER ACCESSIBLE LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE OBJECTS OR SURFACES UNDER LAVATORIES. MFR.: TRUE-BRO LAV-GUARD OR APPVD EQ.
2. PROVIDE PLASTIC LAMINATE AT ALL EXPOSED SURFACES.
3. PROVIDE GARBAGE DISPOSAL WHERE INDICATED ON PLUMBING PLANS. OFFSET DRAIN TO ALLOW FOR REQUIRED ACCESSIBLE CLEARANCES AS SHOWN ABOVE.

(10) SINK CABINET
3/4" = 1'-0"



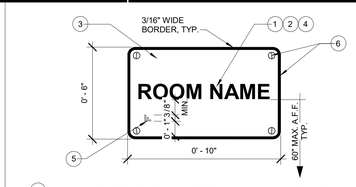
(A) ALL GENDER (B) MEN OR BOYS (C) WOMEN OR GIRLS

NOTES:

1. TRIANGLE SYMBOL SHALL CONTRAST WITH THE CIRCLE SYMBOL, EITHER LIGHT ON A DARK BACKGROUND OR DARK ON A LIGHT BACKGROUND.
2. SIGN COLOR & CONTRAST SHALL BE DISTINCTLY DIFFERENT FROM THAT OF DOOR.
3. PROVIDE MECHANICAL MOUNTING WITH VANDAL RESISTANT FASTENERS.

NOTE: SEE DETAIL 2/- FOR MOUNTING HEIGHTS.

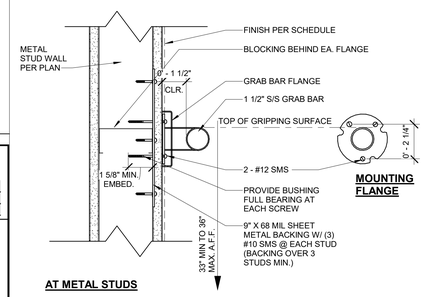
(5) TOILET ROOM DOOR SIGN
3" = 1'-0"



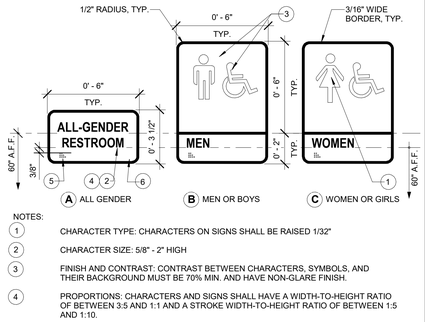
1. CHARACTER TYPE: CHARACTERS ON SIGNS SHALL BE RAISED 1/32"
2. CHARACTER SIZE: 5/8" - 2" HIGH
3. FINISH AND CONTRAST: CONTRAST BETWEEN CHARACTERS, SYMBOLS, AND THEIR BACKGROUND MUST BE 70% MIN. AND HAVE NON-GLARE FINISH.
4. PROPORTIONS: CHARACTERS AND SIGNS SHALL HAVE A WIDTH-TO-HEIGHT RATIO OF BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH-TO-HEIGHT RATIO OF BETWEEN 1:5 AND 1:10.
5. BRAILLE: CALIFORNIA GRADE 2 BRAILLE SHALL BE USED.
6. SIGN THICKNESS & MOUNTING: SIGN MATERIAL TO BE 1/8" THICK PLASTIC WITH 1/32" RAISED BORDER. PROVIDE MECHANICAL MOUNTING WITH VANDAL RESISTANT FASTENERS. USE DOUBLE SIDED FOAM TAPE AT GLAZING.

NOTE: SEE DETAIL 2/- FOR MOUNTING HEIGHTS.

(4) ROOM IDENTIFICATION SIGN
3" = 1'-0"



(9) GRAB BAR ANCHORAGE
3" = 1'-0"



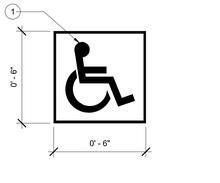
(A) ALL GENDER (B) MEN OR BOYS (C) WOMEN OR GIRLS

NOTES:

1. CHARACTER TYPE: CHARACTERS ON SIGNS SHALL BE RAISED 1/32"
2. CHARACTER SIZE: 5/8" - 2" HIGH
3. FINISH AND CONTRAST: CONTRAST BETWEEN CHARACTERS, SYMBOLS, AND THEIR BACKGROUND MUST BE 70% MIN. AND HAVE NON-GLARE FINISH.
4. PROPORTIONS: CHARACTERS AND SIGNS SHALL HAVE A WIDTH-TO-HEIGHT RATIO OF BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH-TO-HEIGHT RATIO OF BETWEEN 1:5 AND 1:10.
5. BRAILLE: CALIFORNIA GRADE 2 BRAILLE SHALL BE USED.
6. SIGN THICKNESS & MOUNTING: SIGN MATERIAL TO BE 1/8" THICK PLASTIC WITH 1/32" RAIDED BORDER. PROVIDE MECHANICAL MOUNTING WITH VANDAL RESISTANT FASTENERS. USE DOUBLE SIDED FOAM TAPE AT GLAZING.

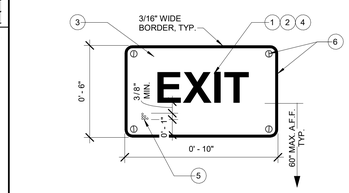
NOTE: SEE DETAIL 2/- FOR MOUNTING HEIGHTS.

(6) TOILET ROOM WALL SIGN
3" = 1'-0"



1. ISA SIGN TO HAVE BLUE FIGURE (FEDERAL STANDARD 5958 15090) AND BORDER WITH WHITE BACKGROUND
2. LOCATE SIGN MAXIMUM 12" AWAY FROM DOOR STRIKE.
3. PROVIDE WHEREVER A ROOM IDENTIFICATION SIGN PER DETAIL 4/- IS PROVIDED.

(3) ISA SIGN
3" = 1'-0"

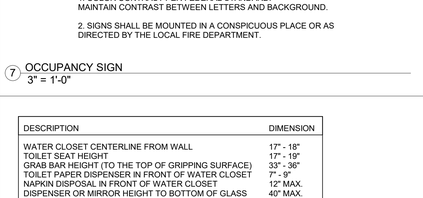


1. CHARACTER TYPE: CHARACTERS ON SIGNS SHALL BE RAISED 1/32"
2. CHARACTER SIZE: 5/8" - 2" HIGH
3. FINISH AND CONTRAST: CONTRAST BETWEEN CHARACTERS, SYMBOLS, AND THEIR BACKGROUND MUST BE 70% MIN. AND HAVE NON-GLARE FINISH.
4. PROPORTIONS: CHARACTERS AND SIGNS SHALL HAVE A WIDTH-TO-HEIGHT RATIO OF BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH-TO-HEIGHT RATIO OF BETWEEN 1:5 AND 1:10.
5. BRAILLE: CALIFORNIA GRADE 2 BRAILLE SHALL BE USED.
6. SIGN THICKNESS & MOUNTING: SIGN MATERIAL TO BE 1/8" THICK PLASTIC WITH 1/32" RAIDED BORDER. PROVIDE MECHANICAL MOUNTING WITH VANDAL RESISTANT FASTENERS. USE DOUBLE SIDED FOAM TAPE AT GLAZING.

NOTE: SEE DETAIL 2/- FOR MOUNTING LOCATION.

THE PATH OF EGRESS TRAVEL TO EXITS AND WITHIN EXITS IN THIS BUILDING SHALL BE IDENTIFIED BY EXIT SIGNS CONFORMING TO THE REQUIREMENTS OF SECITON 1013 AND AS NOTED BELOW (113.1):
EXIT SIGNS SHALL BE READILY VISIBLE FROM ANY DIRECTION OF EGRESS TRAVEL.
EXIT SIGNS SHALL BE LOCATED AS NECESSARY TO CLEARLY INDICATE THE DIRECTION OF EGRESS TRAVEL.

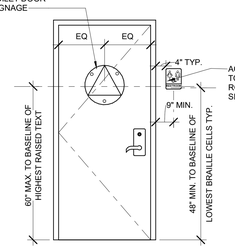
(8) EXIT SIGN
3" = 1'-0"



NOTES:
1. COLOR CONTRAST PER FEDERAL STANDARD. MAINTAIN CONTRAST BETWEEN LETTERS AND BACKGROUND.

2. SIGNS SHALL BE MOUNTED IN A CONSPICUOUS PLACE OR AS DIRECTED BY THE LOCAL FIRE DEPARTMENT.

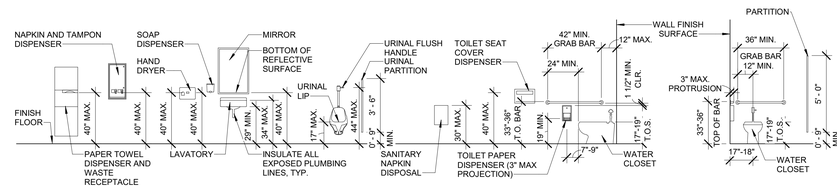
(7) OCCUPANCY SIGN
3" = 1'-0"



NOTE: 1. MOUNTING LOCATION MUST ALLOW A PERSON TO APPROACH WITHIN 3" OF SIGN WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING PATH OF ANY DOOR.
2. COMPLY WITH 2019 CBC 11B-703.

(2) TYP. SIGN MOUNTING HEIGHTS
3" = 1'-0"

DESCRIPTION	DIMENSION
WATER CLOSET CENTERLINE FROM WALL	17" - 18"
TOILET SEAT HEIGHT	17" - 19"
GRAB BAR HEIGHT (TO THE TOP OF GRIPPING SURFACE)	33" - 36"
TOILET PAPER DISPENSER IN FRONT OF WATER CLOSET	7" - 9"
NAPKIN DISPOSAL IN FRONT OF WATER CLOSET	12" MAX.
DISPENSER OR MIRROR HEIGHT TO BOTTOM OF GLASS	40" MAX.
LAVATORY / SINK TOP HEIGHT	34" MAX.
LAVATORY/ SINK KNEE CLEARANCE	29" MIN.
URINAL LIP HEIGHT	17" MAX.
URINAL FLUSH HANDLE HEIGHT	44" MAX.
DRINKING FOUNTAIN BUBBLER HEIGHT	36" MAX.
DRINKING FOUNTAIN KNEE CLEARANCE	27" MIN.
RAMP/ STAIR HANDRAIL HEIGHT	34" - 38"
SHOWER SEAT HEIGHT	17" - 19"
SHOWER HEAD HEIGHT	48"



(1) PLUMBING MOUNTING HEIGHTS
1/4" = 1'-0"

THE GARLAND COMPANY, INC.

HIGH-PERFORMANCE BUILDING ENVELOPE SOLUTIONS

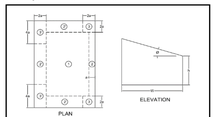
3800 EAST 91ST. STREET • CLEVELAND, OHIO 44105-2197
p. (216) 641-7500 • f. (216) 641-0803 / 800-321-9506 • www.garlandco.com

Preliminary Pressure Calculations

Date 3/22/2023
Sales Rep Sean Gavin
City Rosamond
State CA

Project Name RHECC Cafeteria
Roof Sections Main Roof

Design Code	ASCE 7-16 ASD	Base Velocity Pressure	11.9	psf	Gcpi = 0.55
Exposure Category	C	Roof Type	Monoslope		
Risk Cat. , Importance Factor	III , 1	Edge Zones			
Wind Speed	101 mph	Zone 2 width	= 6'-3"		
Design Roof Height:	19	Zone 2' width	= 12'-5"		
Minimum Building Width	62 ft	Zone 3 width	= 12'-5"		
Roof Pitch (X, Y)	1.5 : 12	Zone 3 length	= 12'-5"		
Roof Angle	7.13 deg	Zone 3' width	= 12'-5"		
Parapet ≥ 36" Entire Roof	No	Zone 3' length	= 24'-10"		
Deck Type	Wood	Zone Image	a = 6'-3"		
Deck Thickness	0.5 in				



Panel Type R-Mer Span
Width 16 in
Material 22/22 GA Steel
Fastener Wood: Concealor #14-13 DP1
per clip 2
Safety Factor 2.5 **
Clip Pry Coefficient 1.25
Ultimate Pullout 434 psf
Allowable Clip Load 278 psf
Panel Safety Factor 1.25 **

Zone Pressures (psf)

ZONE 1	ZONE 2	ZONE 2'	ZONE 3	ZONE 3'		Wall Perimeter Zone 4	Wall Corner Zone 5
19.6	22.0	25.5	27.9	37.4		17.6	20.9

** Clip Spacing ft / in

ZONE 1	ZONE 2	ZONE 2'	ZONE 3	ZONE 3'		Zone 4	Zone 5
5'-0"	5'-0"	5'-0"	4'-6"	3'-6"		5'-0"	5'-0"

**Clip spacing calculated as per LRFD

Notes:

Calcs per IAPMO report #662

THE GARLAND COMPANY, INC.

HIGH-PERFORMANCE BUILDING ENVELOPE SOLUTIONS

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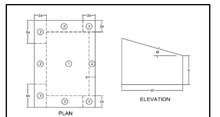
Preliminary Pressure Calculations

Date 3/22/2023
Sales Rep Sean Gavin
City Rosamond
State CA

Project Name RHECC Cafeteria
Roof Sections Outdoor Roof

Design Code	ASCE 7-16 ASD	Base Velocity Pressure	11.3	psf	Gcpi = 0.55
Exposure Category	C	Roof Type	Monoslope		
Risk Cat. , Importance Factor	III , 1	Edge Zones			
Wind Speed	101 mph	Zone 2 width	= 3'-0"		
Design Roof Height:	15	Zone 2' width	= 6'-0"		
Minimum Building Width	30 ft	Zone 3 width	= 6'-0"		
Roof Pitch (X, Y)	2 : 12	Zone 3 length	= 6'-0"		
Roof Angle	9.46 deg	Zone 3' width	= 6'-0"		
Parapet ≥ 36" Entire Roof	No	Zone 3' length	= 12'-0"		
Deck Type	Wood	Zone Image	a = 3'-0"		
Deck Thickness	0.5 in				



Panel Type R-Mer Span
Width 16 in
Material 22/22 GA Steel
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per clip 2
Safety Factor 2.5 **
Clip Pry Coefficient 1.25
Ultimate Pullout 434 psf
Allowable Clip Load 278 psf
Panel Safety Factor 1.25 **

Zone Pressures (psf)

ZONE 1	ZONE 2	ZONE 2'	ZONE 3	ZONE 3'		Wall Perimeter Zone 4	Wall Corner Zone 5
18.7	20.9	24.3	26.6	35.6		16.8	19.8

** Clip Spacing ft / in

ZONE 1	ZONE 2	ZONE 2'	ZONE 3	ZONE 3'		Zone 4	Zone 5
5'-0"	5'-0"	5'-0"	5'-0"	3'-6"		5'-0"	5'-0"

**Clip spacing calculated as per LRFD

Notes:

Calcs per IAPMO report #662

THE GARLAND COMPANY, INC.

HIGH-PERFORMANCE BUILDING ENVELOPE SOLUTIONS

3800 EAST 91ST. STREET • CLEVELAND, OHIO 44105-2197
p. (216) 641-7500 • f. (216) 641-0803 / 800-321-9506 • www.garlandco.com

Preliminary Pressure Calculations

Date 3/22/2023
Sales Rep Sean Gavin
City Rosamond
State CA

Project Name RHECC Cafeteria
Roof Sections Entry Roof

Design Code	ASCE 7-16 ASD	Base Velocity Pressure	11.3	psf	Gcpi = 0.55
Exposure Category	C	Roof Type	Monoslope		
Risk Cat. , Importance Factor	III , 1	Edge Zones			
Wind Speed	101 mph	Zone 2 width	= 3'-0"		
Design Roof Height:	15	Zone 2' width	= 6'-0"		
Minimum Building Width	14 ft	Zone 3 width	= 6'-0"		
Roof Pitch (X, Y)	3 : 12	Zone 3' length	= 12'-0"		
Roof Angle	14.04 deg		=		
Parapet ≥ 36" Entire Roof	No		=		
Deck Type	Wood	Zone Image	a = 3'-0"		
Deck Thickness	0.5 in				

Panel Type R-Mer Span
Width 16 in
Material 22/22 GA Steel
Fastener Wood: Concealor #14-13 DP1
per clip 2
Safety Factor 2.5 **
Clip Pry Coefficient 1.25
Ultimate Pullout 434 psf
Allowable Clip Load 278 psf
Panel Safety Factor 1.25 **

Zone Pressures (psf)

ZONE 1	ZONE 2	ZONE 3				Wall Perimeter Zone 4	Wall Corner Zone 5
20.9	24.3	39.0				18.7	22.0

** Clip Spacing ft / in

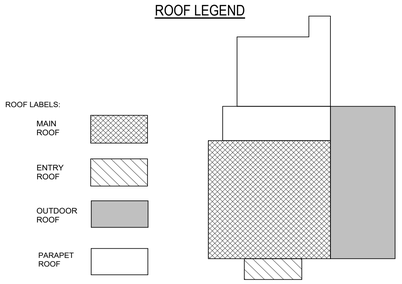
ZONE 1	ZONE 2	ZONE 3				Zone 4	Zone 5
5'-0"	5'-0"	3'-6"				5'-0"	5'-0"

**Clip spacing calculated as per LRFD

Notes:

Calcs per IAPMO report #662

ROOF LEGEND



(12) GARLAND ROOFING FASTENER SCHEDULES AND ROOF LEGEND
SCALE: NONE

AGENCY

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DIV. OF THE STATE ARCHITECT
APP: 03-122536 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/24/2023

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Lancaster, California 93534
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ARCHITECT

LICENSED ARCHITECT
C-26053
Ren. Date 08/31/2023
STATE OF CALIFORNIA

CONSULTANT

Drawn by:
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Revisions

No.	Date	Description

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

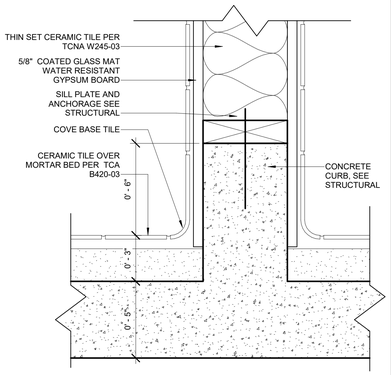
ROSAMOND HIGH EARLY COLLEGE CAMPUS

2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

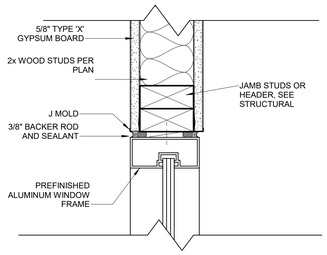
Drawing Title

SIGNAGE AND INTERIOR DETAILS

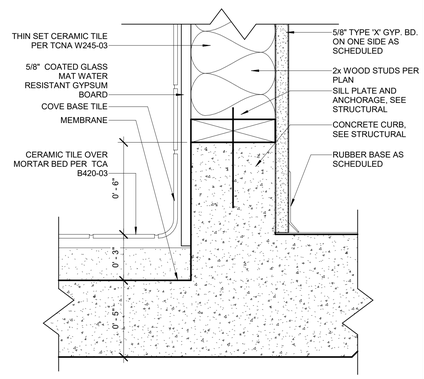
Job No. 2990.000
Date 01.30.2023
Sheet No. **A9.01**



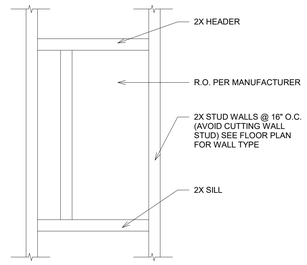
14 INTERIOR WALL CURB
3" = 1'-0"



13 INTERIOR WILDOW JAMB/ HEAD (SIM)
3" = 1'-0"

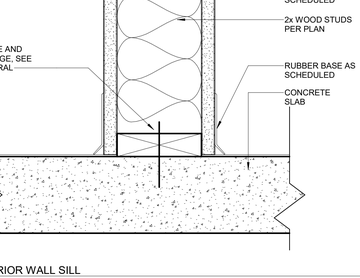


6 RESTROOM SILL
3" = 1'-0"

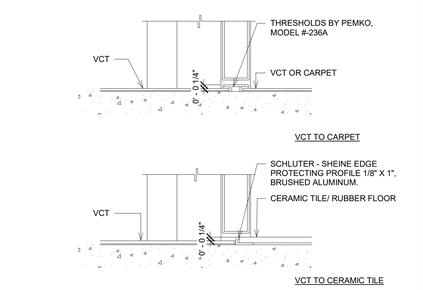


5 FIRE EXTINGUISHER CABINET FRAMING
1 1/2" = 1'-0"

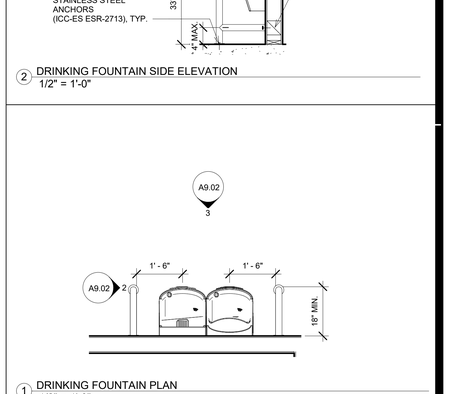
15 SERVING ROOM GUARDRAIL
3/4" = 1'-0"



12 INTERIOR WILDOW SILL
3" = 1'-0"



7 HM INTERIOR DOOR HEAD DETAIL
3" = 1'-0"

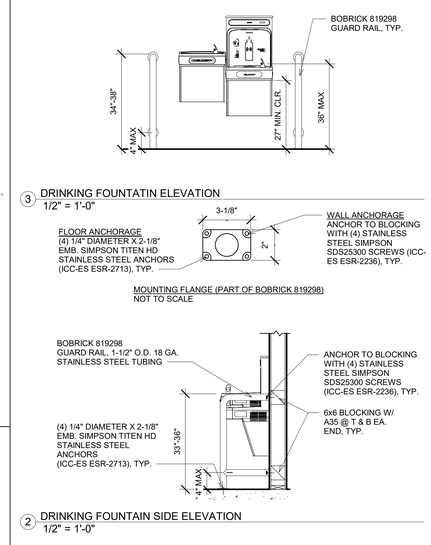


4 FIRE EXTINGUISHER CABINET
1 1/2" = 1'-0"

16 TV MOUNTING DETAIL
1 1/2" = 1'-0"

11 INTERIOR PARTITION TOP PLATE
3" = 1'-0"

8 HM INTERIOR DOOR JAMB DETAIL
3" = 1'-0"



3 DRINKING FOUNTATIN ELEVATION
1/2" = 1'-0"

2 DRINKING FOUNTAIN SIDE ELEVATION
1/2" = 1'-0"

10 INTERIOR WALL SILL
3" = 1'-0"

9 INTERIOR DOOR THRESHOLD
3" = 1'-0"

1 DRINKING FOUNTAIN PLAN
1/2" = 1'-0"

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LICENSED ARCHITECT JOHN A. MOODY C-26053 Ren. Date 08/31/2023 STATE OF CALIFORNIA

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

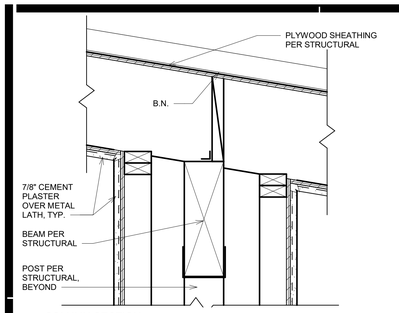
Drawing Title

INTERIOR DETAILS

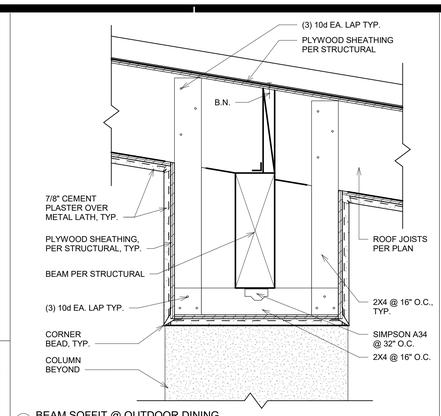
Job No. 2990.000

Date 01.30.2023

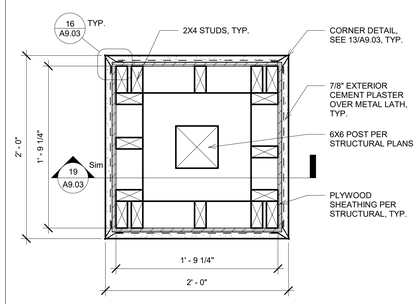
Sheet No. **A9.02**



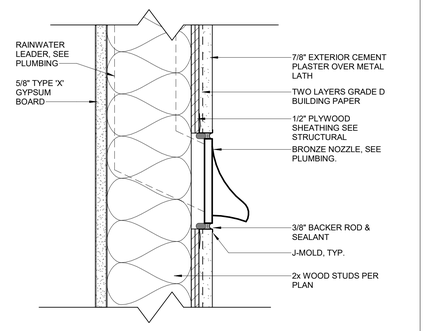
19 COLUMN SECTION
1 1/2" = 1'-0"



13 BEAM SOFFIT @ OUTDOOR DINING
1 1/2" = 1'-0"

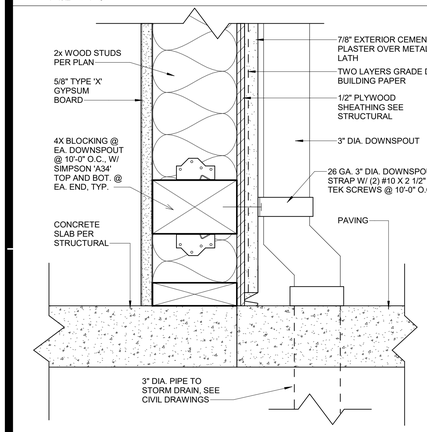


12 COLUMN PLAN SECTION
1 1/2" = 1'-0"

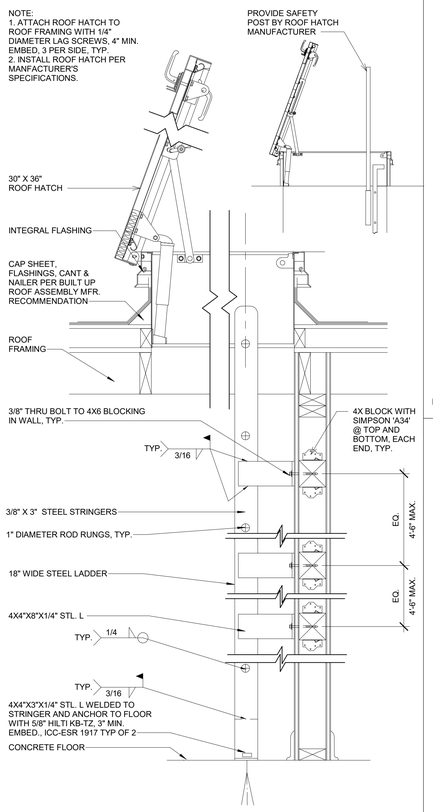


5 OVERFLOW SPOUT IN EXTERIOR WALL
3" = 1'-0"

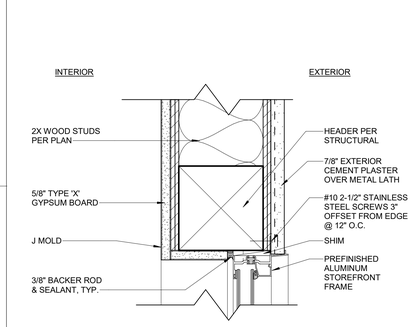
OMIT



18 DOWNSPOUT AT GRADE CONNECTION TO STORM DRAIN
3" = 1'-0"

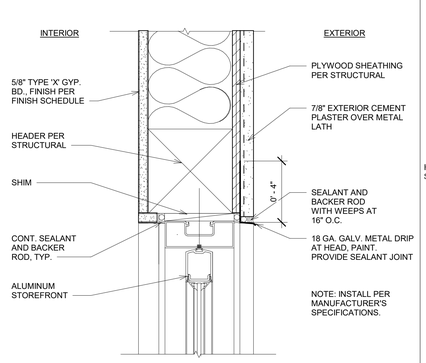


14 ROOF HATCH & LADDER
1 1/2" = 1'-0"

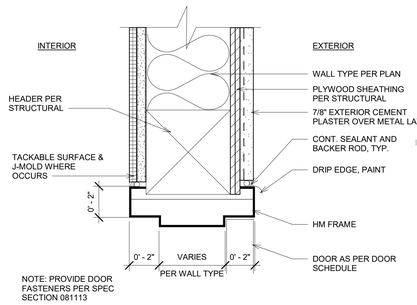


NOTE: INSTALL PER MANUFACTURER'S SPECIFICATIONS.

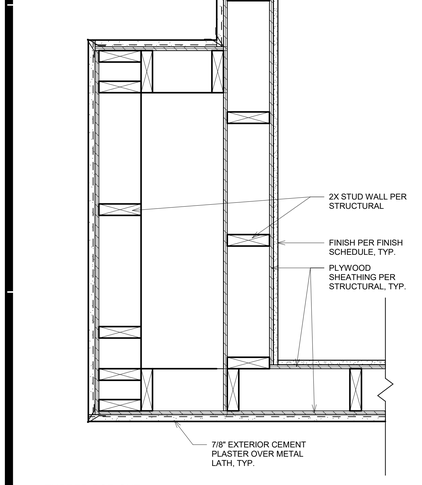
11 EXTERIOR WINDOW HEAD
3" = 1'-0"



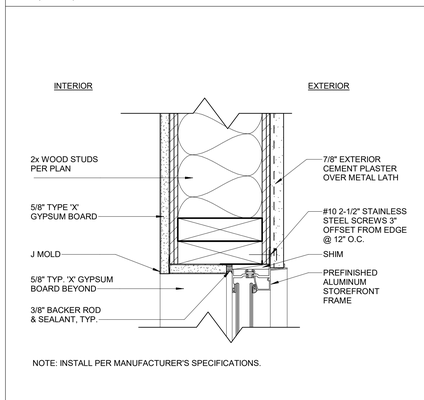
6 STOREFRONT DOOR HEAD DETAIL
3" = 1'-0"



3 HM EXTERIOR DOOR HEAD DETAIL
3" = 1'-0"

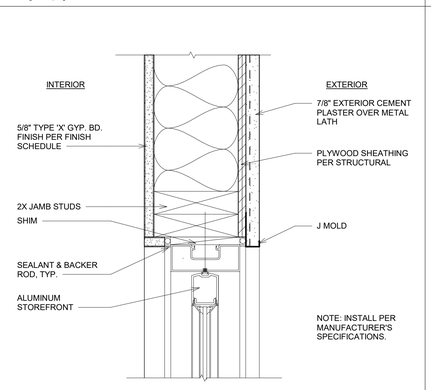


17 FURRED POP-OUT
1 1/2" = 1'-0"

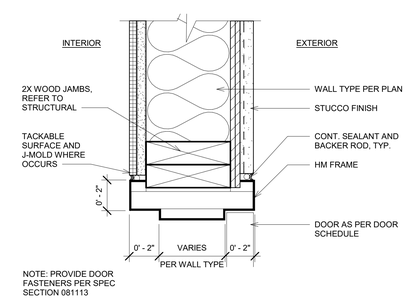


NOTE: INSTALL PER MANUFACTURER'S SPECIFICATIONS.

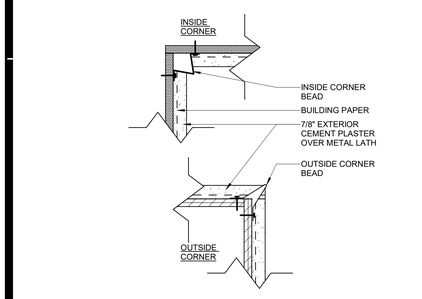
10 EXTERIOR WINDOW JAMB
3" = 1'-0"



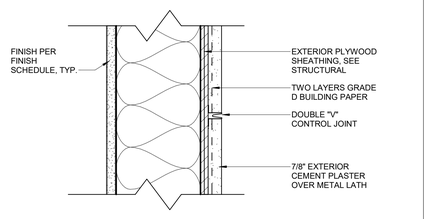
7 STOREFRONT DOOR JAMB DETAIL
3" = 1'-0"



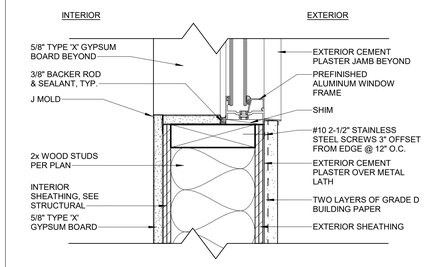
2 HM EXTERIOR DOOR JAMB DETAIL
3" = 1'-0"



16 EXTERIOR PLASTER CORNER DETAILS
3" = 1'-0"

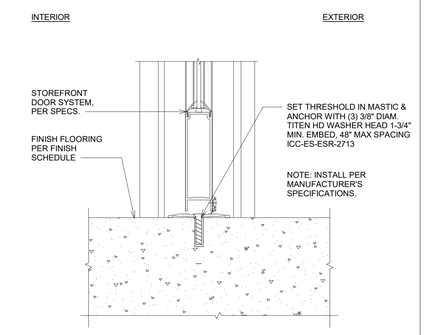


15 TYP. STUCCO CONTROL JOINT
3" = 1'-0"

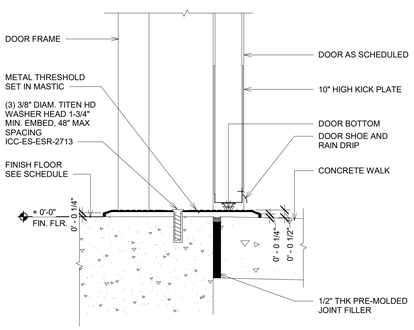


NOTE: INSTALL PER MANUFACTURER'S SPECIFICATIONS.

9 EXTERIOR WINDOW SILL
3" = 1'-0"



8 STOREFRONT DOOR SILL DETAIL
3" = 1'-0"



1 EXTERIOR DOOR THRESHOLD
3" = 1'-0"

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

2925 WEST ROSAMOND BLVD.
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Drawing Title

EXTERIOR DETAILS

Job No. 2990.000
Date 01.30.2023
Sheet No. **A9.03**

CONTINUED METAL SUSPENSION SYSTEMS FOR LAY-IN PANEL CEILINGS: 2016 CBC AS PER DSA (IR 25-2.13)

INTERPRETATION OF REGULATION
(REF. TITLE 24, CCR, CBC PART 2 1616A.1.20, 1616.10.16

1. GENERAL REQUIREMENTS: CBC SECTION 1616A.1.20 (1616.10.16*) REQUIRES THE DESIGN AND INSTALLATION TO BE IN COMPLIANCE WITH ASTM C635, C636, AND E580, SECTION 5, AS AMENDED BY 2016 CBC SECTION 1616A.1.20 (1616.10.16*).
NOTE: AMENDMENTS IN CBC SECTION 1616A.1.20 (1616I.10.16*) REPLACE ASCE 7, SECTION 13.5.6.
THE REQUIREMENTS IN THIS IR APPLY TO FLAT AND LEVEL CEILING SYSTEMS WHOSE TOTAL WEIGHT, INCLUDING CEILING MOUNTED AIR TERMINALS, SERVICES AND LIGHT FIXTURES, DOES NOT EXCEED FOUR (4) PSF. HEAVIER SYSTEMS, SYSTEMS THAT ARE NOT FLAT AND LEVEL, AND THOSE SUPPORTING LATERAL LOADS FROM PARTITIONS ARE BEYOND THE SCOPE OF THIS IR AND WILL REQUIRE SPECIAL DESIGN AND DETAILS.

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 CEILING WIRE SHALL BE CLASS 1 ZINC COATED (GALVANIZED) CARBON STEEL CONFORMING TO ASTM A641. WIRE SHALL BE #12 GAGE (0.106" DIAMETER) WITH SOFT TEMPER AND MINIMUM TENSILE STRENGTH = 70 KSI.
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 A 4 FOOT BY 4 FOOT 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 TWO INCHES. GRID SYSTEMS WITH SPECIALTY OR PROPRIETARY 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 AND PLACED WITHIN EIGHT (8) INCHES OF THE WALL. WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNER IS EIGHT (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 2,500 SQUARE FEET, A SEISMIC SEPARATION JOINT SHALL BE PROVIDED IN ACCORDANCE WITH, TO DIVIDE THE CEILING INTO AREAS NOT EXCEEDING 2,500 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 5.2.8.5, A FLEXIBLE SPRINKLER HOSE FITTING THAT CAN ACCOMMODATE ONE (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, WHEN PERIMETER SUPPORT, IN ACCORDANCE WITH SECTION 3.3 OF THIS IR OR 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 PER TABLE 1 FOR ALL VALUES OF THE COMPONENT IMPORTANCE FACTOR (IP) OF THE CEILING.

TABLE 1 LATERAL FORCE BRACE ASSEMBLY SPACING	
Design Spectral Acceleration Parameter SDS	Brace Assembly Spacing
Less than or equal to 1.15	12'x12' Full building Height
Greater than 1.15 and less than or equal to 1.73	8'x12' for z/h greater than 0.5 12'x12' for z/h less than or equal to 0.5
Greater than 1.73	8'x8' for z/h greater than 0.5 8'x12' for z/h less than or equal to 0.5

WHERE, AS DEFINED IN ASCE 7-10, SECTION 13.3.1:
Z = HEIGHT IN STRUCTURE OF POINT OF ATTACHMENT OF CEILING WITH RESPECT TO THE BASE.
H = AVERAGE ROOF HEIGHT OF THE STRUCTURE WITH RESPECT TO THE BASE.
WHERE DIFFERENT BRACE SPACING IS SPECIFIED AT VARIOUS STORIES, THE RESPECTIVE CEILING PLAN SHALL CLEARLY INDICATE THE BRACE SPACING.
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 OFFSET. FOR EXAMPLE, WHERE THE BRACE SPACING IS 8'X12', THE DISTANCE SHALL BE 4 FEET IN THE DIRECTION OF THE 8 FOOT SPACING AND 6 FEET IN THE DIRECTION OF THE 12 FOOT SPACING.
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 WITHOUT DSA APPROVAL.
5.4 COMPRESSION STRUTS SHALL BE ADEQUATE TO RESIST THE VERTICAL COMPONENT INDUCED BY THE BRACING WIRES, AND SHALL NOT BE MORE THAN ONE (HORIZONTAL) IN SIX (VERTICAL) OUT OF PLUMB.

6. ATTACHMENT OF HANGER AND BRACING WIRES:
6.1 FASTEN HANGER WIRES WITH NOT LESS THAN THREE (3) TIGHT TURNS IN THREE (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 BRACING WIRES WITH FOUR (4) TIGHT TURNS. MAKE ALL TIGHT TURNS WITHIN A DISTANCE OF ONE AND ONE-HALF (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 ONE (HORIZONTAL) IN SIX (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 C636, FIGURE 1, 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 FOUR (4) PSF FOR CALCULATING SEISMIC FORCES (FP).
6.8 WHEN DRILLED-IN CONCRETE ANCHORS OR POWER ACTUATED FASTENERS 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. POWER ACTUATED FASTENERS IN CONCRETE ARE NOT PERMITTED FOR BRACING WIRES.
NOTE: DRILLED-IN ANCHORS OR POWER ACTUATED FASTENERS REQUIRE DSA 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 7-10 AS AMENDED BY 2016 CBC SECTION 1616A.1.20 (1616.10.16*) 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 LIGHT FIXTURES:
7.2.1 ALL LIGHT FIXTURES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURE. SCREWS OR APPROVED FASTENERS ARE REQUIRED. A MINIMUM OF TWO ATTACHMENTS ARE REQUIRED AT EACH LIGHT FIXTURE, PER ASTM E580, SECTION 5.3.1.
7.2.2 LIGHT FIXTURES WEIGHING LESS THAN OR EQUAL TO 10 LB. SHALL HAVE A MINIMUM OF ONE (1) #12 GAGE SLACK SAFETY WIRE CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE.
7.2.3 LIGHT FIXTURES WEIGHING GREATER THAN 10 LB. BUT LESS THAN OR EQUAL TO 56 LBS. MAY BE SUPPORTED DIRECTLY ON THE CEILING RUNNERS, BUT THEY SHALL HAVE A MINIMUM OF TWO (2) #12 GAGE SLACK SAFETY WIRES CONNECTED FROM THE FIXTURE HOUSING AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE.
7.2.4 LIGHT FIXTURES WEIGHING GREATER THAN 56 LB. SHALL 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.
7.2.5 ALL FOUR FOOT X FOUR FOOT LIGHT FIXTURES MUST HAVE SLACK SAFETY WIRES AT EACH CORNER UNLESS SUPPORTED PER SECTION 7.2.4.
7.2.6 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 EIGHT (8) FEET OR LONGER. MAXIMUM SPACING BETWEEN SUPPORTS SHALL NOT EXCEED EIGHT (8) FEET.
7.2.7 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. SEE IR 16-9 FOR ADDITIONAL REQUIREMENTS FOR PENDENT MOUNTED FIXTURES.
IF THE PENDANT MOUNTED LIGHT FIXTURE IS DIRECTLY AND INDEPENDENTLY BRACED BELOW THE CEILING, I.E., AIRCRAFT CABLES TO WALLS, THEN A BRACE ASSEMBLY IS NOT REQUIRED ABOVE THE CEILING.
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 THE HORIZONTAL FORCE.
EXCEPTION: WHERE THE WEIGHT OF THE FIXTURE IS LESS THAN 20 POUNDS, THE COMPRESSION POST SHOWN IN FIGURE 1 IS NOT REQUIRED.
7.2.8 RIGID CONDUIT SHALL NOT BE USED FOR ATTACHMENT OF THE FIXTURES.
7.3 SERVICES WITHIN THE CEILING:
7.3.1 ALL FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE COMPONENT. SCREWS OR APPROVED FASTENERS ARE REQUIRED. A MINIMUM OF TWO ATTACHMENTS ARE REQUIRED AT EACH COMPONENT.
7.3.2 FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING LESS THAN OR EQUAL TO 20 LB. SHALL HAVE ONE (1) #12 GAGE SLACK SAFETY WIRE ATTACHED TO THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE.
7.3.3 FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING MORE THAN 20 LB. BUT LESS THAN OR EQUAL TO 56 LB. SHALL HAVE TWO (2) #12 GAGE SLACK SAFETY WIRES ATTACHED TO THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE.
7.3.4 FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING MORE THAN 56 LB. SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE BY NOT LESS THAN FOUR (4) TAUT #12 GAGE WIRES ATTACHED TO THE TERMINAL OR SERVICE 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.
7.4 OTHER DEVICES WITHIN THE CEILING:
7.4.1 ALL LIGHTWEIGHT MISCELLANEOUS DEVICES, SUCH AS STROBE LIGHTS, OCCUPANCY SENSORS, SPEAKERS, EXIT SIGNS, ETC., SHALL BE ATTACHED TO THE CEILING GRID PER SECTION 7.3.1 OF THIS IR. IN ADDITION, DEVICES WEIGHING MORE THAN 10 LBS. SHALL HAVE A #12 GAGE SLACK SAFETY WIRE ANCHORED TO THE STRUCTURE ABOVE PER SECTION 7.2.2 OF THIS IR. DEVICES WEIGHING MORE THAN 20 LBS. SHALL BE SUPPORTED FROM THE STRUCTURE ABOVE PER SECTION 7.3.4 OF THIS IR.

CONTINUED METAL SUSPENSION SYSTEMS FOR LAY-IN PANEL CEILINGS: 2016 CBC AS PER DSA (IR 25-2.13)

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 ONE-HALF (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 7-10 AS AMENDED BY 2016 CBC SECTION 1616A.1.20 (1616.10.16*). 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 ON 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.
9.4 IF A NEW WIRE IS TO BE SPLICED TO AN EXISTING WIRE, THE FOLLOWING IS REQUIRED:
- THE ARCHITECT OR STRUCTURAL ENGINEER IN GENERAL RESPONSIBLE CHARGE MUST SUBMIT TO THE DSA FOR APPROVAL A DETAIL AND SPECIFICATION DESCRIBING HOW THE SPLICE IS TO BE MADE.
- 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 AND THIS IR 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.

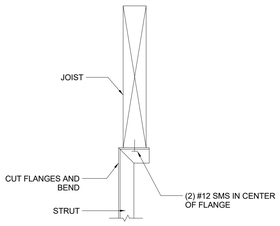
11. DSA ACCEPTANCE OF EVALUATION REPORTS: CEILING GRID SYSTEMS OR COMPONENTS, WITH VALID EVALUATION REPORTS ISSUED BY QUALIFIED EVALUATION AGENCIES, IN ACCORDANCE WITH DSA IR A-5, ARE ACCEPTED BY THE DSA, PROVIDED THE SYSTEM OR COMPONENT MEETS THE REQUIREMENTS OF CBC SECTION 1616A.1.20 (1616.10.16*), ASTM C635, C636 AND E580. WHERE A QUALIFIED EVALUATION REPORT IS UTILIZED, THE INSTALLATION SHALL COMPLY WITH ALL THE REQUIREMENTS SPECIFIED IN THE EVALUATION REPORT, I.E. CONNECTIONS, MEMBER SIZES, PERIMETER DETAILS, SPECIAL CLIPS TO WALL ANGLES, ETC.
IN ACCORDANCE WITH DSA IR A-5, DSA WILL ACCEPT OSHPD PREAPPROVED DETAILS (OPD) *2016 CBC STANDARD SUSPENDED CEILING DETAILS FOR ACOUSTICAL TILE OR LAY-IN PANEL CEILINGS.*

12. 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 ACCEPTED PROPRIETARY DEVICES, CLIPS, WALL ANGLES, ETC. ARE UTILIZED, THE DETAILS ON THE APPROVED CONSTRUCTION DOCUMENTS SHALL CLEARLY INDICATED THE INSTALLATION DETAILS AS NECESSARY TO SHOW COMPLIANCE WITH ALL EVALUATION REPORT REQUIREMENTS.
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 IN ACCORDANCE WITH IR A-5. 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: SEE DETAIL 1/-
MANUFACTURER'S CATALOG NUMBER - CROSS RUNNER: SEE DETAIL 1/-
MANUFACTURER'S CATALOG NUMBERS OF DETAIL FOR RUNNER SPLICE: SEE DETAIL 1/-
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.

CBC COMPLIANT CEILING SUSPENSION NOTES:

METAL SUSPENSION SYSTEMS FOR ACOUSTICAL AND LAY-IN PANEL CEILINGS SHALL CONFORM WITH 2016 CBC SECTION 808.1 AND 2016 CBC 1613.1.

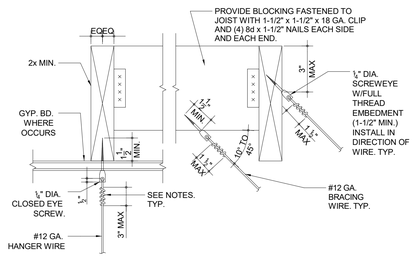
808.1 ACOUSTICAL CEILING SYSTEMS - THE QUALITY, DESIGN, FABRICATION AND ERECTION OF METAL SUSPENSION SYSTEMS FOR ACOUSTICAL TILE AND LAY-IN PANEL CEILINGS IN BUILDINGS OR STRUCTURES SHALL CONFORM WITH GENERALLY ACCEPTED ENGINEERING PRACTICE, THE PROVISIONS OF THIS CHAPTER AND OTHER APPLICABLE REQUIREMENTS OF THIS
CODE.
808.1.1 MATERIALS AND INSTALLATION - ACOUSTICAL MATERIALS COMPLYING WITH THE INTERIOR FINISH REQUIREMENTS OF SECTION 803 SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE PROVISIONS FOR APPLYING INTERIOR
FINISH.
808.1.1.1 SUSPENDED ACOUSTICAL CEILINGS - SUSPENDED ACOUSTICAL CEILING SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE PROVISIONS OF ASTM C635 AND ASTM
C636.
808.1.1.2 FIRE RESISTANCE RATED CONSTRUCTION SHALL BE INSTALLED IN THE SAME MANNER USED IN THE ASSEMBLY TESTED AND SHALL COMPLY WITH THE PROVISIONS OF CHAPTER
7.
1613.1 REQUIRES THAT EVERY STRUCTURE, AND PORTION THEREOF, INCLUDING NONSTRUCTURAL COMPONENTS THAT ARE PERMANENTLY ATTACHED TO STRUCTURES AND THEIR SUPPORTS AND ATTACHMENTS, SHALL BE DESIGNED AND CONSTRUCTED TO RESIST THE EFFECTS OF EARTHQUAKE MOTIONS IN ACCORDANCE WITH ASCE
7.



NOTE:

1. COMPRESSION STRUT PER TABLE, SEE 6/-

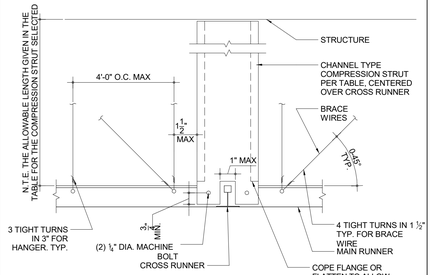
5 STRUT CONNECTION TO WOOD JOISTS
3" = 1'-0"



NOTE:

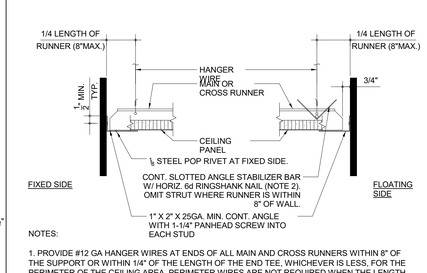
1. WHEN FIRE RATED GYPSUM BOARD IS INSTALLED ON THE BOTTOM FLANGES, USE SCREW EYES WITH SUFFICIENT LENGTH TO AVOID DAMAGING THE FIRE RATED GYPSUM BOARD AND MEET MIN. PENETRATION.
2. PROVIDE 3 TURNS WITHIN 3" AT HANGER WIRES. TYPICAL AT EACH END.
3. PROVIDE 4 TURNS WITHIN 1-1/2" AT BRACE WIRES. TYPICAL AT EACH END.

4 HANGER/ BRACING CONNECTION TO WOOD JOISTS
3" = 1'-0"



CHANNEL COMPRESSION STRUT	MAXIMUM LENGTH
362S137-33	8'-0"
400S137-43	10'-10"

6 STRUT CONNECTION TO WOOD JOIST
3" = 1'-0"



NOTES:

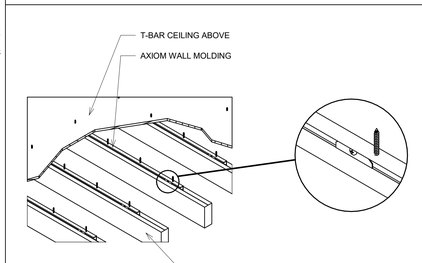
1. PROVIDE #12 GA HANGER WIRES AT ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN 8" OF THE SUPPORT OR WITHIN 1/4" OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS, FOR THE PERIMETER OF THE CEILING AREA. PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE TEE IS 8"OR LESS.

2. NAILS AT ENDS OF HORIZONTAL STABILIZERS ARE TO BE PLACED WITH NAIL HEAD TOWARD CENTER LINE OF SPAN OF STRUT.

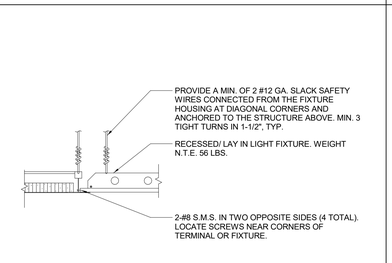
3. STABILIZER BAR MAY BE SLOTTED APPROVED ANGLES OR CHANNELS WITH "DIAMOND POINTS" OF SPRING STEEL WHICH TIGHT TO PREVENT MOVEMENT OF THE STRUT.

4. SEE FINISH SCHEDULE FOR ARCHITECTURAL FINISH. FASTENERS TO PENETRATE STUDS MIN. OF 1/

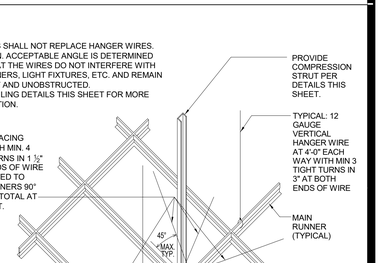
3 ACOUSTICAL CEILING AT PERIMETER
3" = 1'-0"



10 SOUNDSCAPES BLADES
1" = 1'-0"

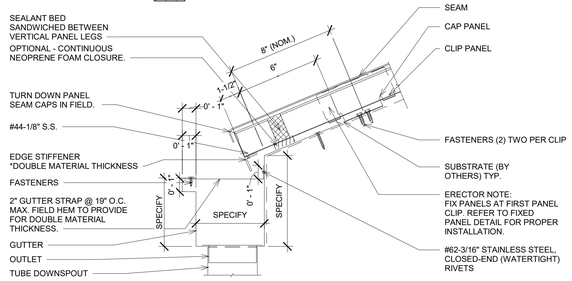


7 LIGHT FIXTURE/ AIR TERMINAL SUPPORT
3" = 1'-0"

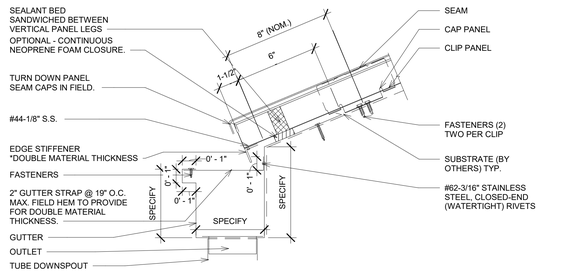

NOTES:
1. STRUTS SHALL NOT REPLACE HANGER WIRES.
2. THE MIN. ACCEPTABLE ANGLE IS DETERMINED SUC

ROOF LEGEND

GUTTER SIZES:
6" X 6"
3" X 3"



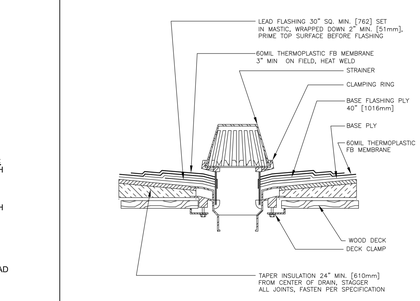
FIXED EAVE W/ GUTTER (FEG-1)
(THERMAL MOVEMENT IS DIRECTED UP SLOPE)



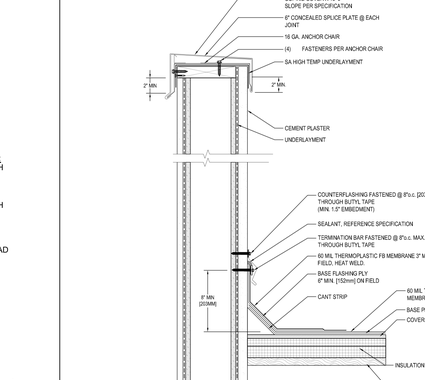
EXPANDING EAVE W/ GUTTER (EEG-1)

NOTE: SEE 12/A9.01 FOR GARLAND ROOFING FASTENER SCHEDULES.

11 FIXED EAVE WITH GUTTER
3" = 1'-0"



FIXED HEAD DETAIL



EXPANDING HEAD DETAIL

NOTE: SEE 12/A9.01 FOR GARLAND ROOFING FASTENER SCHEDULES.

10 FIXED HEAD DETAIL/ EXPANDING HEAD DETAIL
3" = 1'-0"

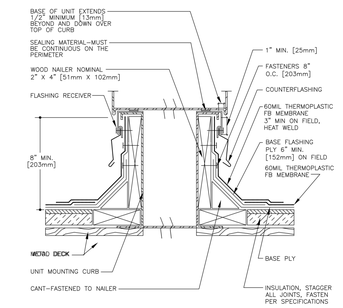
ALL PLIES SET IN ADHESIVE SEE SPECIFICATIONS FOR ADHESIVES

5 ROOF DRAIN
1/2" = 1'-0"

6 SURFACE MOUNTED COUNTER FLASHING/ COPING CAP
1 1/2" = 1'-0"

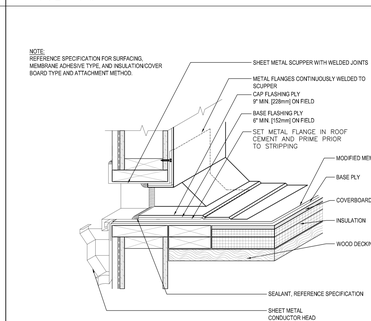
OMIT

NOTES:
1. SEE MECHANICAL CURB DETAIL A/M4.01.
2. SEE STRUCTURAL CURB DETAIL 14/S3.10.

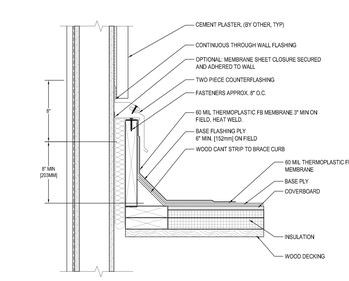


ALL PLIES SET IN ADHESIVE SEE SPECIFICATIONS FOR ADHESIVES

3 CURB DETAIL/ HANDLING STATION
1/2" = 1'-0"

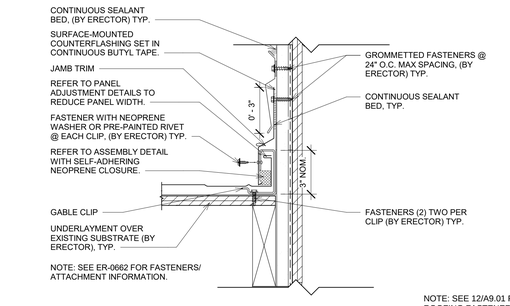


7 SCUPPER THROUGH WALL
1 1/2" = 1'-0"



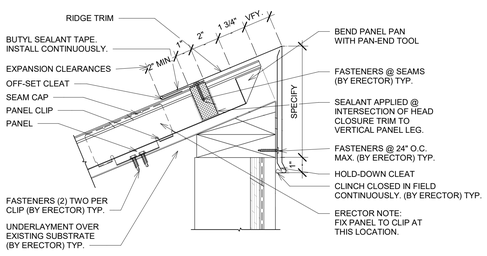
NOTE: SEE ER-0662 FOR FASTENERS/ ATTACHMENT INFORMATION.

2 BASE FLASHING FOR NON-WALL SUPPORTING DECK
1 1/2" = 1'-0"



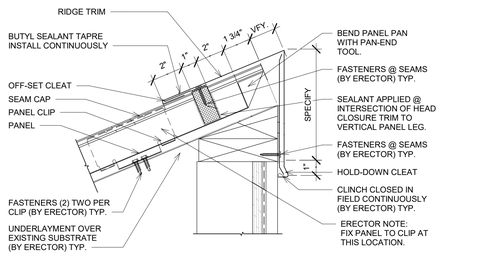
NOTE: SEE 12/A9.01 FOR GARLAND ROOFING FASTENER SCHEDULES.

12 EXPANDING SLOPING JAMB
3" = 1'-0"



EXPANDING SHED RIDGE

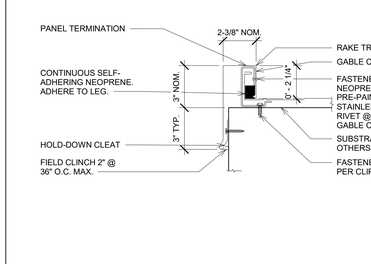
NOTE: SEE 12/A9.01 FOR GARLAND ROOFING FASTENER SCHEDULES.



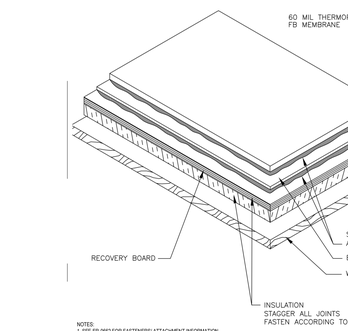
FIXED SHED RIDGE DETAIL

NOTE: SEE 12/A9.01 FOR GARLAND ROOFING FASTENER SCHEDULES.

9 FIXED SHED RIDGE DETAIL
1 1/2" = 1'-0"



8 RAKE W/ NEOPRENE CLOSER
3" = 1'-0"



NOTES:
1. SEE ER-0662 FOR FASTENERS/ ATTACHMENT INFORMATION.
2. ALL PLIES SET IN ADHESIVE SEE SPECIFICATIONS FOR ADHESIVES.

1 TYPICAL FINISH - KEE HYBRID
3/4" = 1'-0"

AGENCY

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122536 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/24/2023

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An Employee Owned Corporation

ARCHITECT

LICENSED ARCHITECT
C-26053
Ren. Date 08/31/2023
STATE OF CALIFORNIA

CONSULTANT

Drawn by:
Check by:
Revisions

No.	Date	Description

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared for a specific site. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Flewelling & Moody.

SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

Drawing Title

ROOF DETAILS

Job No. 2990.000

Sheet No. **A9.20**

Date 01.30.2023

ABBREVIATIONS:

AB	ANCHOR BOLT
ABV	ABOVE
ADDL	ADDITIONAL
ADHES	ADHESIVE
ALT	ALTERNATE
AMP	AMPLITUDE
ARC	ARCHITECT/ ARCHITECTURAL
AVG	AVERAGE
BF	BOUNDARY FASTENER
BLDG	BUILDING
BLKG	BLOCKING
BLW	BELOW
BM	BEAM
BN	BOUNDARY NAILING
BOTT	BOTTOM
BS	BOTH SIDES
BSMT	BASEMENT
BTWN	BETWEEN
BYND	BEYOND
CF	CUBIC FOOT
CG	CENTER OF GRAVITY
CJ	CONTROL JOINT/ CEILING JOIST
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CNTRSNK	COUNTERSINK/ COUNTERSUNK
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTRACT	CONTRACTOR
COORD	COORDINATE
CVR	COVER
DIA	DIAMETER
DIM	DIMENSION
DIR	DIRECTION
DO	DO OVER
DP	DEEP
DS	DRAG STRUT
DSA	DEPARTMENT OF STATE ARCHITECTS
DTL	DETAIL
DWG	DRAWING
DWL	DOWEL
(E)	EXISTING
EA	EACH
EF	EACH FACE/ EDGE FASTENER
ELEC	ELECTRICAL
ELEV	ELEVATION
EMB	EMBEDMENT
EN	EDGE NAILING
ENGINEER	ENGINEER
ES	EDGE SCREW
EJ	EXPANSION JOINT
EQ	EQUAL
EW	EACH WAY
EXT	EXTERIOR
FDN	FOUNDATION
FF	FINISH FLOOR/FILED FASTENER
FG	FINISH GRADE
FH	FULL HEIGHT
FN	FIELD NAILING
FL	FLOOR
FLG	FLANGE
FOC	FACE OF CONCRETE
FOS	FACE OF STUD
FS	FAR SIDE/ FINISHED SURFACE
FT	FOOT/FEET
FTG	FOOTING
GA	GAGE
GALV	GALVANIZED
GRND	GROUND
GT	GIRDER TRUSS
HNGR	HANGER
HT	HEIGHT
HORIZ	HORIZONTAL
HS	HIGH STRENGTH
HSS	HOLLOW STRUCTURAL SECTION
ID	INSIDE DIAMETER
INFO	INFORMATION
INT	INTERIOR
JT	JACK TRUSS
KP	KING POST
KSI	KIPS PER SQUARE INCH
LBS	POUNDS
LD	LONG DIRECTION
LG	LONG
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LOC'S	LOCATIONS
LONG	LONGITUDINAL
LT WT	LIGHT WEIGHT
MANUF	MANUFACTURER
MAX	MAXIMUM
MB	MACHINE BOLT
MD	METAL DECK
MECH	MECHANICAL
MEP	MECHANICAL/ELECTRICAL/ PLUMBING
MIN	MINIMUM
MISC	MISCELLANEOUS
MTL	METAL
(N)	NEW
NS	NEAR SIDE/ NELSON STUD
NW	NORMAL WEIGHT
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OPPOSITE HAND
OMF	ORDINARY MOMENT FRAME
OPNG	OPENING
OPP	OPPOSITE
PERIM	PERIMETER
PERP	PERPENDICULAR
PL	PROPERTY LINE
PLF	POUNDS PER LINEAR FOOT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PLATE TRUSS/ PRESSURE TREATED
REINF	REINFORCEMENT
REQ	REQUIRE
REQ'D	REQUIRED
R&R	REMOVE AND REPLACE
SCHED	SCHEDULE
SD	SHORT DIRECTION
SF	SQUARE FOOT
SHT	SHEET
SIM	SIMILAR
SMRF	SPECIAL MOMENT - RESISTING FRAME
SN	SOLE PLATE NAILING
SOG	SLAB ON GRADE
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
STAGG	STAGGERED
STD	STANDARD
STIFF	STIFFENER
STL	STEEL
STRUCT	STRUCTURAL
SW	SHEARWALL
SWO	SHEARWALL WITH OPENING
SYM	SYMMETRICAL
THK	THICK
THRD	THREADED
T&B	TOP AND BOTTOM
TN	TOE NAILING
TOF	TOP OF FOOTING
TOP	TOP OF PODIUM
TOS	TOP OF STEEL
TL	TOP OF LEDGER
TOW	TOP OF WALL
TRANV	TRANSVERSE
TS	TUBE STEEL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
VIF	VERIFY IN FIELD
WF	WIDE FLANGE BEAM
W/	WITH
W/O	WITHOUT
WT	WEIGHT
WP	WORKING POINT
WWF	WELDED WIRE FABRIC
WWO	WALL WITH OPENING AND/ OR PERFORATED SHEARWALL

SYMBOLS:

∠	ANGLE
@	AT
℄	CENTERLINE
₹	PLATE/PROPERTY LINE
#	POUNDS
∅	DIAMETER
//	PARALLEL
d_b	BAR DIAMETER

REINFORCED CONCRETE NOTES CONT.:

33. AGGREGATES - COMPLIANCE REQUIREMENTS:
   A. AGGREGATES SHALL CONFORM TO (1) OR (2):
      1. NORMALWEIGHT AGGREGATE: ASTM C33.
      2. LIGHTWEIGHT AGGREGATE: ASTM C330
   B. AGGREGATES NOT CONFORMING TO ASTM C33 OR ASTM C330 ARE PERMITTED IF THEY HAVE BEEN SHOWN BY TEST OF ACTUAL SERVICE TO PRODUCE CONCRETE OF ADEQUATE STRENGTH AND DURABILITY AND ARE APPROVED BY THE BUILDING OFFICIAL.
   C. MAXIMUM AGGREGATE SIZE:
      1. FOOTINGS.....1" MAX.
      2. SLAB ON GRADE, GRADE BEAMS.....¾" MAX.
      3. ELEVATED STRUCT. SLABS, BEAMS, FRAMED COLUMNS, CONC. WALLS.....½" MAX.
      4. REMAINDER.....¾" MAX.
34. WATER - COMPLIANCE REQUIREMENTS:
   A. MIXING WATER SHALL CONFORM TO ASTM C1602.
   B. MIXING WATER, INCLUDING THAT PORTION OF MIXING WATER CONTRIBUTED IN THE FORM OF FREE MOISTURE ON AGGREGATES, SHALL NOT CONTAIN DELETERIOUS AMOUNTS OF CHLORIDE ION WHEN USED FOR PRESTRESSED CONCRETE, FOR CONCRETE THAT WILL CONTAIN ALUMINUM EMBEDMENTS, OR FOR CONCRETE CAST AGAINST STAY-IN-PLACE GALVANIZED STEEL FORMS.
35. ADMIXTURES - COMPLIANCE REQUIREMENTS:
   A. ADMIXTURES SHALL CONFORM TO (1) THROUGH (4):
      1. WATER REDUCTION AND SETTING TIME MODIFICATION: ASTM C494.
      2. PRODUCING FLOWING CONCRETE: ASTM C1017.
      3. AIR ENTRAINMENT: ASTM C260.
      4. INHIBITING CHLORIDE-INDUCED CORROSION: ASTM C1582.
   B. ADMIXTURES SHALL BE REVIEWED AND APPROVED BY THE ARCHITECT AND THE DIVISION OF THE STATE ARCHITECT.
   C. CALCIUM CHLORIDE OR ADMIXTURES CONTAINING CHLORIDE FROM SOURCES OTHER THAN IMPURITIES IN ADMIXTURE INGREDIENTS SHALL NOT BE USED IN PRESTRESSED CONCRETE, IN CONCRETE CONTAINING EMBEDDED ALUMINUM, OR IN CONCRETE CAST AGAINST STAY-IN-PLACE GALVANIZED STEEL FORMS.
   D. ADMIXTURES USED IN CONCRETE CONTAINING EXPANSIVE CEMENTS CONFORMING TO ASTM C845 SHALL BE COMPATIBLE WITH THE CEMENT AND PRODUCE NO DELETERIOUS EFFECTS.
36. 1705A.3.3.1: WAIVER OF CONTINUOUS BATCH PLANT INSPECTION:
CONTINUOUS BATCH PLANT INSPECTION MAY BE WAIVED BY THE REGISTERED DESIGN PROFESSIONAL, SUBJECT TO APPROVAL BY THE ENFORCEMENT AGENCY UNDER EITHER OF THE FOLLOWING CONDITIONS:
   A. THE CONCRETE PLANT COMPLIES FULLY WITH THE REQUIREMENTS OF ASTM C94, SECTIONS 9 AND 10, AND HAS A CURRENT CERTIFICATE FROM THE NATIONAL READY MIXED CONCRETE ASSOCIATION OR ANOTHER AGENCY ACCEPTABLE TO THE ENFORCEMENT AGENCY. THE CERTIFICATION SHALL INDICATE THAT THE PLANT HAS AUTOMATIC BATCHING AND RECORDING CAPABILITIES.
   B. FOR SINGLE-STORY LIGHT-FRAMED CONSTRUCTION (WITHOUT BASEMENT OR RETAINING WALLS HIGHER THAN 6 FEET IN HEIGHT MEASURED FROM THE BOTTOM OF FOOTING TO TOP OF WALL) AND ISOLATED FOUNDATIONS SUPPORTING EQUIPMENT ONLY, WHERE DEEP FOUNDATION ELEMENTS ARE NOT USED.

WHEN CONTINUOUS BATCH PLANT INSPECTION IS WAIVED, THE FOLLOWING REQUIREMENTS SHALL APPLY AND SHALL BE DESCRIBED IN THE CONSTRUCTION DOCUMENTS:
   A. AN APPROVED AGENCY SHALL CHECK THE FIRST BATCH AT THE START OF THE DAY TO VERIFY THAT MATERIALS CONFORM TO AND THE APPROVED MIX DESIGN.
   B. A LICENSED WEIGHTMASTER SHALL POSITIVELY IDENTIFY QUANTITY OF MATERIALS AND CERTIFY EACH LOAD BY A BATCH TICKET.
   C. BATCH TICKETS, INCLUDING MATERIAL QUANTITIES AND WEIGHTS SHALL ACCOMPANY THE LOAD, SHALL BE TRANSMITTED TO THE INSPECTOR OF RECORD BY THE TRUCK DRIVER WITH LOAD IDENTIFIED THEREON. THE LOAD SHALL NOT BE PLACED WITHOUT A BATCH TICKET IDENTIFYING THE MIX. THE INSPECTOR OF RECORD SHALL KEEP A DAILY RECORD OF PLACEMENTS, IDENTIFYING EACH TRUCK, IT'S LOAD, AND TIME OF TICKET AT THE JOBSITE, AND APPROXIMATE LOCATION OF DEPOSIT IN THE STRUCTURE AND SHALL MAINTAIN A COPY OF THE DAILY RECORD AS REQUIRED BY THE ENFORCEMENT AGENCY.

TESTS FOR POST-INSTALLED ANCHORS IN CONCRETE:

1. WHEN POSTINSTALLED ANCHORS ARE USED IN LIEU OF CAST-IN PLACE BOLTS, THE INSTALLATION VERIFICATION TEST LOADS, FREQUENCY, AND ACCEPTANCE CRITERIA SHALL BE IN ACCORDANCE WITH THIS SECTION.
2. IF ANY ANCHOR FAILS TESTING, ALL ANCHORS OF THE SAME TYPE SHALL BE TESTED, WHICH ARE INSTALLED BY THE SAME TRADE, NOT PREVIOUSLY TESTED UNTIL TWENTY (20) CONSECUTIVE ANCHORS PASS, THEN RESUME THE INITIAL TEST FREQUENCY.
3. THE TEST PROCEDURE SHALL BE AS PERMITTED BY AN APPROVED EVALUATION REPORT USING CRITERIA ADOPTED IN THIS CODE. ALL POST-INSTALLED ANCHORS SHALL BE TENSION TESTED. (OSHPD 1&4) TENSION TESTING TO VERIFY PROPER INSTALLATION SHALL BE PERFORMED IN ACCORDANCE WITH ASTM E3121.
   EXCEPTION: (DSA-SS) TORQUE-CONTROLLED POST-INSTALLED ANCHORS AND SCREW TYPE ANCHORS SHALL BE PERMITTED TO BE TESTED USING TORQUE BASED ON AN APPROVED EVALUATION REPORT USING CRITERIA ADOPTED IN THIS CODE.

ALTERNATIVELY, MANUFACTURER'S RECOMMENDATION FOR TESTING MAY BE APPROVED BY THE ENFORCEMENT AGENCY, BASED ON AN APPROVED TEST REPORT USING CRITERIA ADOPTED IN THIS CODE.

5. REQUIRED TEST LOADS SHALL BE:
   A. THE PROOF LOAD SHALL BE 2700# FOR THE POST-INSTALLED ANCHORS AT THE WALK-IN COOLERS. THIS TESTS SHALL BE DONE IN CONFORMANCE WITH SECTION 4.5.2 OF THE SIMPSON 'SET-XP' EVALUATION REPORT ICC-ES ESR-2508. ANCHOR ELONGATION SHALL NOT EXCEED 0.2".

6. ACCEPTANCE CRITERIA FOR POST-INSTALLED ANCHORS SHALL BE BASED ON AN APPROVED EVALUATION REPORT USING CRITERIA ADOPTED IN THIS CODE. FIELD TESTS SHALL SATISFY THE FOLLOWING MINIMUM REQUIREMENTS.
   A. HYDRAULIC RAM METHOD:
      ANCHORS TESTED WITH A HYDRAULIC JACK OR SPRING LOADED APPARATUS SHALL MAINTAIN THE TEST LOAD FOR A MINIMUM OF 15 SECONDS AND SHALL EXHIBIT NO DISCERNABLE MOVEMENT DURING THE TENSION TEST, E.G., AS EVIDENCED BY LOOSENING OF THE WASHER UNDER THE NUT. FOR ADHESIVE ANCHORS, WHERE OTHER THAN BOND IS BEING TESTED, THE TESTING APPARATUS SUPPORT SHALL NOT BE LOCATED WITHIN 1.5 TIMES THE ANCHORS EMBEDMENT DEPTH TO AVOID RESTRICTING THE CONCRETE SHEAR CONE TYPE FAILURE MECHANISM FROM OCCURING.
   B. TORQUE WRENCH METHOD:
      TORQUE-CONTROLLED POST-INSTALLED ANCHORS TESTED WITH A CALIBRATED TORQUE WRENCH SHALL ATTAIN THE SPECIFIED TORQUE WITHIN ½ TURN OF THE NUT; OR ONE-QUARTER (¼) TURN OF THE NUT FOR A ⅜ INCH SLEEVE ANCHOR ONLY. (DSA-SS) SCREW-TYPE ANCHORS TESTED WITH A CALIBRATED TORQUE WRENCH SHALL ATTAIN THE SPECIFIED TORQUE WITHIN ONE-QUARTER (¼) TURN OF THE SCREW AFTER INITIAL SEATING OF THE SCREW HEAD.

REINFORCED CONCRETE NOTES:

1. CONCRETE MIXES SHALL BE DESIGNED BY A RECOGNIZED TESTING LABORATORY AND COPIES OF THE DESIGN SHALL BE SENT TO THE ARCHITECT AND THE ENGINEER. COMPRESSIVE STRENGTH TEST REPORTS SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT AND THE ARCHITECT. ALL CONCRETE EXCEPT FOUNDATION CONCRETE SHALL CONTAIN POLYMER BASED WATER REDUCING ADMIXTURE.
2. PORTLAND CEMENT SHALL CONFORM TO ASTM C-150. TYPE II. AGGREGATE FOR STONE CONCRETE SHALL CONFORM TO ASTM C-33. NON-REACTIVE AGGREGATE FOR LIGHTWEIGHT CONCRETE SHALL CONFORM ASTM C-330.
3. ALL REINFORCING BARS, ANCHOR BOLTS, PRE STRESSING TENDONS, AND ALL OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.
4. THE MAXIMUM SLUMP SHALL NOT EXCEED 4" +/- 1" FOR FOOFINGS, SLABS ON EARTH, AND MASS CONCRETE, AND 5" +/- 1" FOR OTHER CONCRETE. SLUMP MAY BE INCREASED WHEN CHEMICAL ADMIXTURES ARE USED, PROVIDED THAT ADMIXTURE-TREATED CONCRETE HAS THE SAME OR LOWER WATER CEMENT OR WATER- CEMENTITIOUS MATERIAL RATIO. (ACI 211 TABLE 6.3.1)
5. MINIMUM COMPRESSIVE STRENGTH:
   PROVIDE CONCRETE WITH THE FOLLOWING MINIMUM COMPRESSIVE STRENGTH (f'c) AT 28 DAYS UNLESS NOTED OTHERWISE (MINIMUM 5 SACKS OF CEMENT PER CUBIC YARD) (MAXIMUM WATER/CEMENT RATIO BY WEIGHT SHALL BE .50 FOR BALANCE):

MINIMUM COMPRESSIVE STRENGTH (f'c)			
CONSTRUCTION TYPE	PSI	SPEC. INSP. REQUIRED	AGGREGATE
SLAB ON GRADE	3000 PSI	YES	NORMAL WT.
SPREAD FOOTING	3000 PSI	YES	NORMAL WT.
CONTINUOUS FOOTINGS	3000 PSI	YES	NORMAL WT.
NOTE:			

6. THE COMPRESSIVE STRENGTH OF EXTERIOR SLABS AND FLAT WORK SHALL BE INCREASED FOR MODERATE AND SEVERE WEATHERING EXPOSURE PER TABLE 1904A.2 OF THE CBC.
7. ALL STRUCTURAL CONCRETE IS TO BE REINFORCED.
8. CONTRACTOR SHALL SUBMIT SLAB CONSTRUCTION JOINT LAYOUT DRAWINGS TO THE ARCHITECT AND ENGINEER FOR REVIEW. THE MAXIMUM SPACING OF CONTROL JOINTS IN SLAB ON GRADE EACH WAY SHALL BE 30X THE SLAB THICKNESS BEFORE 7 DAYS OF CURING. SLABS REQUIRE AT LEAST 7 DAYS CURING (14 DAYS WHERE FLY ASH OR POZOLAN IS USED), AND THE ENVIRONMENT (HUMIDITY AND TEMPERATURE) OF ROOM SHALL BE ACCLIMATED TO LONG TERM CLIMATE CONDITIONS PRIOR TO INSTALLATION OF FLOORING. THE SLAB TEMPERATURE SHALL BE WITHIN 5 DEGREES OF DEW POINT DURING CURING. SEE NOTES BELOW ON CURING REQUIREMENTS. MOISTURE AND HUMIDITY TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING LABORATORY HIRED BY THE OWNER, AND TESTS RESULTS SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION OF FLOORING.
9. PROJECTING CORNERS OF BEAMS, COLUMNS, WALLS, ETC., SHALL BE FORMED WITH A 3/4" CHAMFER UNLESS DETAILED OTHERWISE.
10. IF EXPOSURE TO SULFATES, OR SPECIAL EXPOSURE CONDITIONS OCCUR, THE CONCRETE STRENGTH, WATER CEMENT RATIOS, AND OTHER PROPERTIES OF THE CONCRETE MIX SHALL BE IN ACCORDANCE WITH ACI 318 SECTION 19.3. VERIFY WITH SOILS REPORT FOR CONCRETE CHEMICALS IN THE SOILS.
11. DO NOT POUR CONCRETE WHEN THE TEMPERATURE EXCEEDS 90°F OR 80°F WHEN THE WIND EXCEEDS 12MPH. START CURING AS SOON AS HARD TRAWLING IS DONE. WHEN WIND, TEMPERATURE AND HUMIDITY CONDITIONS COMBINE EARLY DISAPPEARANCE OF BLEED WATER, SPECIAL CARE SHALL BE TAKEN TO USE A FOG SPRAY. CURING SHALL COMMENCE IMMEDIATELY AFTER FINISHING TRAWLING.
12. CURE CONCRETE ACCORDING TO ACI 308.1 BY ONE OF THE FOLLOWING METHODS:
   A. WET CURING USING BURLAP FOR A MINIMUM OF 7 DAYS. BURLAP MUST BE PLACED WITHIN 2 HOURS OF POURING.
   B. CURING COMPOUND MUST CONFORM TO ASTM C309. APPLY UNIFORMLY IN CONTINUOUS OPERATION BY POWER SPRAY OR ROLLER ACCORDING TO MANUFACTURE'S WRITTEN INSTRUCTION.
   C. MOISTURE RETAINING COVER SHOULD CONFORM TO ASTM C171, BE AT LEAST 0.4 MILL. THICK, AND PREFERABLE REINFORCED WITH GLASS FIBER.
13. WHERE AIR ENTRAINED IS SPECIFIED, THE VOLUME OF AIR IN THE MORTAR FRACTION OF CONCRETE MIX DESIGN SHALL BE 9% ±1%.
14. ALL REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-615 GRADE 60 FOR NO.4 AND LARGER, ASTM A 615 GRADE 40 FOR NO.3. AT GRADE BEAMS & CONCRETE FRAMES ALL REINF. SHALL CONFORM TO ASTM A706 REBAR. U.N.O.
15. ALL REINFORCING BAR BENDS SHALL BE MADE COLD.
16. REINFORCING STEEL SHALL BE SPLICED WITH CLASS B SPLICES UNLESS NOTED OTHERWISE ON THE DRAWINGS.
17. AT THE TIME CONCRETE IS PLACED, REINFORCEMENT SHALL BE FREE FROM MUD, OIL, OR OTHER NONMETALLIC COATINGS THAT DECREASE BOND. WHERE SPECIFIED IN THE DETAILS, EPOXY-COATING OF STEEL REINFORCEMENT IN ACCORDANCE WITH ACI STANDARDS. EXCEPT FOR PRESTRESSING STEEL, STEEL REINFORCEMENT WITH RUST, MILL SCALE, OR A COMBINATION OF BOTH SHALL BE CONSIDER SATISFACTORY, PROVIDED THE MINIMUM DIMENSIONS (INCLUDING HEIGHT OF DEFORMATIONS) AND WEIGHT OF A HAND-WIRE-BRUSHED TEST SPECIMEN COMPLY WITH APPLICABLE ASTM SPECIFICATIONS.
18. THE MINIMUM CLEAR SPACING BETWEEN PARALLEL BARS IN A LAYER SHALL BE ø- BUT NOT LESS THAN 1 IN. WHERE PARALLEL REINFORCEMENT IS PLACED IN TWO OR MORE LAYERS, BARS IN THE UPPER LAYERS SHALL BE PLACED DIRECTLY ABOVE BARS IN THE BOTTOM LAYER WITH CLEAR DISTANCE BETWEEN LAYERS NOT LESS THAN 1 IN. CLEAR DISTANCE LIMITATION BETWEEN BARS SHALL APPLY ALSO TO THE CLEAR DISTANCE BETWEEN A CONTACT LAP SPLICE AND ADJACENT SPLICES OR BARS.
19. IN SPIRALLY REINFORCED OR TIED REINFORCED COMPRESSION MEMBERS, CLEAR DISTANCE BETWEEN LONGITUDINAL BARS SHALL BE NOT LESS THAN 1.5ø NOR LESS THAN 1½ IN.
20. IN WALLS AND SLABS OTHER THAN CONSTRUCTION JOINT CONSTRUCTION, PRIMARY FLEXURAL REINFORCEMENT SHALL NOT BE SPACED FARTHER APART THAN THREE TIMES THE WALL OR SLAB THICKNESS, NOR FARTHER APART THAN 18 IN.
21. WHERE CONCRETE MUST BE INSTALLED AND CURED IN COLD WEATHER, THE GENERAL REQUIREMENTS AND SPECIFICATIONS OF ASTM STD C-31 SHALL BE IMPLEMENTED.
22. CAST-IN-PLACE CONCRETE (NON-PRESTRESSED)
   THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:
   A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH.....3" MIN.
   B. CONCRETE EXPOSED TO EARTH OR WEATHER:
      - NO.6 THROUGH NO.18 BARS.....2" MIN.
      - NO.5 BAR, W31 OR D31 WIRE, AND SMALLER.....1½" MIN.
   C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
      SLABS, WALLS, JOISTS:
      - NO.14 AND NO.18 BARS.....1½" MIN.
      - NO.11 BAR AND SMALLER.....¾" MIN.

      BEAMS, COLUMNS:
      - PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS.....1½" MIN.

      SHELLS, FOLDED PLATE MEMBERS:
      - NO.6 BAR AND LARGER.....¾" MIN.
      - NO.5 BAR, W31 OR D31 WIRE, AND SMALLER.....½" MIN.
23. CORRSIVE ENVIRONMENTS:
   IN CORROSIVE ENVIRONMENTS OR OTHER SEVERE EXPOSURE CONDITIONS, AMOUNT OF CONCRETE PROTECTION SHALL BE SUITABLY INCREASED, AND DENSENESS AND NONPOROSITY OF PROTECTING CONCRETE SHALL BE CONSIDERED, OR OTHER PROTECTION SHALL BE PROVIDED. "COVER" WHERE NOTED ON PLANS AND DETAILS IS NOT A MINIMUM, UNLESS NOTED AS "MIN." THE COVER SHALL BE AS NOTED WITH TOLERANCE.
24. MINIMUM DIAMETER OF BEND:

MINIMUM DIAMETERS OF BEND	
BAR SIZE	MINIMUM DIAMETER
NO.3 THROUGH NO.8	$6d_b$
NO.9, NO.10, AND NO.11	$8d_b$
NO.14 AND NO.18	$10d_b$

25. TOLERANCE FOR d AND MINIMUM CONCRETE COVER IN FLEXURAL MEMBERS, WALLS, AND COMPRESSION MEMBERS SHALL BE AS FOLLOWS:

	TOLERANCE ON d	TOLERANCE ON MINIMUM CONCRETE COVER
d ≤ 8 IN.	±⅜ IN.	-⅜ IN.
d > 8 IN.	±½ IN.	-½ IN.

EXCEPT THAT TOLERANCE FOR THE CLEAR DISTANCE TO FORMED SOFFITS SHALL BE MINUS ¼ IN. AND TOLERANCE FOR COVER SHALL NOT EXCEED MINUS ⅓ THE MINIMUM CONCRETE COVER REQUIRED IN THE DESIGN DRAWINGS AND SPECIFICATIONS.

26. MAXIMUM CHLORIDE ION CONTENT FOR CORROSION PROTECTION OF REINFORCEMENT:

TYPE OF MEMBER	MAXIMUM WATER SOLUBLE CHLORIDE ION (Cl-) IN CONCRETE, PERCENT BY WEIGHT OF CEMENT
REINFORCED CONCRETE EXPOSED TO CHLORIDE IN SERVICE	0.15
REINFORCED CONCRETE THAT WILL BE DRY OR PROTECTED FROM MOISTURE IN SERVICE	1.00
OTHER REINFORCED CONCRETE CONSTRUCTION	0.30

27. TOLERANCE FOR LONGITUDINAL LOCATION OF BEND AND ENDS OF REINFORCEMENT SHALL BE ± 2 IN., EXCEPT THE TOLERANCE SHALL BE ± ½ IN. AT THE DISCONTINUOUS ENDS OF BRACKETS AND CORBELS, AND ± 1 IN. AT THE DISCONTINUOUS ENDS OF OTHER MEMBERS.
28. CONCRETE FLOOR FLATNESS SHALL BE A MINIMUM OF ¾" - 10 FT. TYP. U.N.O.
29. WHERE CORROSION-RESISTANT REINFORCEMENT (CRR) IS SPECIFIED, USE MMFX2 REBAR ASTM A1035 GRADES 690 AND 830.
30. WELDING OF ELECTRICAL CONDUCTORS TO REINFORCING STEEL IS PROHIBITED WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD.
31. PERFORMANCE OF SHOTCRETE SHALL BE PER ACI 506.2 SPECIFICATIONS.
32. ACI 318 TABLE 26.4.1.1.1(a) - SPECIFICATIONS FOR CEMENTITIOUS MATERIALS.

CEMENTITIOUS MATERIALS	SPECIFICATION
PORTLAND CEMENT	ASTM C150
BLENDED HYDRAULIC CEMENTS	ASTM C595, EXCLUDING TYPE IS (>70) AND TYPE IT (S≥70)
EXPANSIVE HYDRAULIC CEMENTS	ASTM C845
HYDRAULIC CEMENT	ASTM C1157
FLY ASH AND NATURAL POZZOLAN *	ASTM C618
SLAG CEMENT	ASTM C989
SILICA FUME	ASTM C1240
* FLY ASH CONTENT SHALL NOT EXCEED 15%	

CALL BEFORE YOU DIG:

ONE EASY PHONE CALL TO 811 STARTS THE PROCESS TO GET YOUR UNDERGROUND PIPELINES AND UTILITY LINES MARKED FOR FREE. WHEN YOU CALL 811 FROM ANYWHERE IN THE COUNTRY, YOUR CALL WILL BE ROUTED TO YOUR STATE ONE-CALL CENTER. ONCE YOUR UNDERGROUND LINES HAVE BEEN MARKED FOR YOUR PROJECT, YOU WILL KNOW THE APPROXIMATE LOCATION OF YOUR PIPELINES AND UTILITY LINES, AND CAN DIG SAFELY. MORE INFORMATION REGARDING 811 CAN BE FOUND AT www.call811.com

DESIGN CRITERIA:

(CBC 2019) BUILDING CODE

1. ROOF LIVE LOAD= 20 PSF [1603.1.2 CBC] ROOFING MATERIAL DEAD LOAD= 2 PSF
   ROOF TOTAL DEAD LOAD= 16.5 PSF, 21.5 PSF @ STUCCO CEILING AREAS
2. [1603.1.4 CBC] WIND DESIGN DATA:
   BASIC WIND SPEED (3-SEC GUST) = 105 MPH
   WIND IMPORTANCE FACTOR = 1.0
   WIND EXPOSURE(S) = C
3. [1603.1.5 CBC] EARTHQUAKE DESIGN DATA:
   SEISMIC IMPORTANCE FACTOR I= 1.25
   SEISMIC RISK CATEGORY= III
   MAPPED SPECTRAL RESPONSE ACCELERATIONS, S_S= 1.097g & S_1= 0.435g
   SOIL SITE CLASS= D
   SPECTRAL RESPONSE COEFFICIENTS, S_{DS}= 0.776g
   SEISMIC DESIGN CATEGORY= D
   BASIC SEISMIC-FORCE RESISTING SYSTEM(S)= LIGHT-FRAMED WOOD WALL SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE
   DESIGN BASE SHEAR V= 0.1492W
   SEISMIC RESPONSE COEFFICIENT(S), C = 0.1492
   RESPONSE MODIFICATIONS FACTOR(S), R = 6.5
   ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL FORCE PROCEDURE
   REDUNDANCY FACTOR, ρ = 1.0

FOUNDATION NOTES:

1. FOUNDATION DESIGN IS BASED ON THE SOIL INVESTIGATION REPORT BY:
   EARTH SYSTEMS
   1024 WEST AVENUE M-4
   PALMDALE, CA 93551
   PH: 661.948.7538 EMAIL: earthsystems.com
   DATE: JUNE 14, 2022
   FILE NO.: 301430-002 DOC. NO.: 22-6-705
2. DESIGN SOIL BEARING PRESSURE IS 1500PSF @ 12 TO 18 INCHES BELOW LOWEST ADJACENT GRADE.
3. PRIOR TO THE CONTRACTOR REQUESTING A BUILDING DEPT. FOUNDATION INSPECTION, THE SOILS ENGINEER SHALL ADVISE THE BUILDING OFFICIAL, IN WRITING, THAT:
   A. THE BUILDING PAD WAS PREPARED ACCORDING TO THE SOILS REPORT.
   B. THE FOUNDATION EXCAVATIONS COMPLY WITH THE INTENT OF THE SOILS REPORT.
   C. THE UTILITY TRENCHES HAVE BEEN PROPERLY BACK FILLED AND COMPACTED.
4. THE SOILS REPORT IS AN INTEGRAL PART OF THE CONSTRUCTION DOCUMENTS. ANY INCONSISTENCIES OR CONFLICTS SHOULD BE BROUGHT TO OUR ATTENTION IMMEDIATELY, AND WAIT FOR OUR DIRECTION.
5. REFERENCE THE SOILS REPORT FOR OVER EXCAVATION AND RECOMPACTION, AND OPTIMUM MOISTURE LEVEL INSTRUCTIONS.
6. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY FINAL GRADE ELEVATIONS, FOR MINIMUM FOOTING DEPTHS BELOW LOWEST ADJACENT GRADES AND MINIMUM COVERAGE OVER TOP OF FOOTINGS. ELEVATIONS OF FOOTINGSSHOWN ON THESE PLANS ARE ESTIMATES BASED ON THE INFORMATION AVAILABLE. FOOTING ELEVATIONS ARE SUBJECT TO CHANGE, AND ARE NOT FINAL TILL THE BUILDING PAD IS GRADED AND TRENCHES FOR FOOTINGS HAVE BEEN APPROVED BY THE SOILS ENGINEER OF RECORD.
7. THE CONTRACTOR IS TO VERIFY IF THE SOILS ENGINEER REQUIRES ADDITIONAL TESTING AT THE COMPLETION OF GRADING OF THE BUILDING PAD.
8. IF ADVERSE SOIL CONDITIONS ARE ENCOUNTERED, A SOILS INVESTIGATION REPORT MAY BE REQUIRED.
9. PRIOR TO BEING DELIVERED TO THE SITE, ALL IMPORTED SOIL SHALL BE TESTED AND APPROVED BY THE SOILS ENGINEER FOR CORROSIVITY AND SUITABILITY FOR THE FOUNDATION DESIGN.
10. BACKFILL BEHIND ALL RETAINING WALLS SHALL BE FREE DRAINING PER RECOMMENDATIONS OF THE SOILS REPORT.
11. EXCAVATION FOR ANY PURPOSE SHALL NOT REMOVE LATERAL SUPPORT FROM ANY FOUNDATION WITHOUT FIRST UNDERPINNING OR PROTECTING THE FOUNDATION AGAINST SETTLEMENT OR LATERAL TRANSLATION.
12. THE EXCAVATION OUTSIDE THE FOUNDATION SHALL BE BACKFILLED WITH SOIL THAT IS FREE OF ORGANIC MATERIAL, CONSTRUCTION DEBRIS, COBBLES AND BOULDERS OR WITH A CONTROLLED LOW-STRENGTH MATERIAL (CLSM). THE BACKFILL SHALL BE PLACED IN LIFTS AND COMPACTED IN A MANOR THAT DOES NOT DAMAGE THE FOUNDATION OR THE WATERPROOFING OR DAMP PROOFING MATERIAL.
   EXCEPTION: CLSM NEED NOT BE COMPACTED.
13. THE GROUND IMMEDIATELY ADJACENT TO THE FOUNDATION SHALL BE SLOPED AWAY FROM THE BUILDING AT A SLOPE OF NOT LESS THAN ONE UNIT VERTICAL IN 20 UNITS HORIZONTAL (5-PERCENT SLOPE) FOR A MINIMUM DISTANCE OF 10 FEET (3048 MM) MEASURED PERPENDICULAR TO THE FACE OF THE WALL. WHERE PHYSICAL OBSTRUCTIONS OR LOT LINES PROHIBIT 10 FEET (3048 MM) OF HORIZONTAL DISTANCE, A 5-PERCENT SLOPE SHALL BE PROVIDED TO AN APPROVED ALTERNATIVE METHOD OF DIVERTING WATER AWAY FROM FOUNDATION. SWALES USED FOR THIS PURPOSE SHALL BE SLOPED A MINIMUM OF 2 PERCENT WHERE LOCATED WITHIN 10 FEET (3048 MM) OF THE BUILDING FOUN

MANUFACTURED COMMERCIAL JOISTS:

1. MANUFACTURED JOISTS SHALL BE 'REDBUILT'.
2. SUBSTITUTIONS SHALL BE EQUIVALENT AND SHALL BE APPROVED BY THE ARCHITECT AND THE ENGINEER, PRIOR TO FABRICATION.
3. MANUFACTURED FRAMING SHALL BE DESIGNED FOR THE DEAD LOADS OF THE MATERIALS SHOWN ON THE DRAWINGS PLUS A LIVE LOAD AS INDICATED ON THE DRAWINGS.
4. MANUFACTURER SHALL FURNISH PLANS AND CALCULATIONS SIGNED BY A LICENSED ENGINEER THE STATE OF CALIFORNIA AND SHALL BE RESPONSIBLE FOR ALL REQUIREMENTS OF THE BUILDING DEPARTMENT.
5. PLANS AND CALCULATIONS SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT AND THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
6. I-JOISTS
   - ICC-ES ESR-2994
   - LARR 25883
7. OPEN WEB JOISTS:
   - ICC-ES ESR-1774
   - LARR 22614

GLUED LAMINATED BEAMS:

1. GLUED LAMINATED MEMBERS SHALL BE MANUFACTURED ACCORDING TO THE ANSI/AITC A190.1 "STANDARD FOR WOOD PRODUCTS - STRUCTURAL GLUED LAMINATED TIMBER." ADHESIVE SHALL BE FOR WET CONDITION OF SERVICE AND AN AITC CERTIFICATE OF INSPECTION IS REQUIRED.
2. GLUED LAMINATED BEAMS SHALL PROVIDE STRESS VALUES THAT MEET OR EXCEED THE FOLLOWING:
   BENDING FB (BOTTOM FIBERS).....2400 PSI
   BENDING FB (TOP FIBERS)-SINGLE SPAN.....2400 PSI
   BENDING FB (TOP FIBERS)-MULTIPLE SPANS OR CANTILEVERS.....2400 PSI
   HORIZONTAL SHEAR FV.....265 PSI
   (FOR 3½" GLULAMS ONLY, HORIZONTAL SHEAR FV MAY BE.....95 PSI
   MODULES OF ELASTICITY.....1,800,000 PSI
   COMPRESSION PERPENDICULAR TO GRAIN.....650 PSI
3. PROVIDE CAMBERS AS NOTED ON THE DRAWINGS.
4. APPEARANCE GRADE SHALL BE: INDUSTRIAL, WHEN CONCEALED FROM VIEW. ARCHITECTURAL, WHEN EXPOSED TO VIEW.
5. MANUFACTURER SHALL SUBMIT SHOP DRAWINGS TO THE ARCHITECT FOR REVIEW PRIOR TO FABRICATION.

PARALLEL STRAND LUMBER (PSL):

1. PARALLAM PARALLEL STRAND LUMBER (PSL) SHALL BE AS MANUFACTURED BY WEYERHAEUSER. DESIGN AND INSTALLATION SHALL BE IN ACCORDANCE WITH ICC-ES ESR-1387, LARR 25202.
2. PARALLAM PARALLEL STRAND LUMBER (PSL) BEAMS SHALL BE GRADE 2.0E AND PROVIDE STRESS VALUES THAT MEET OR EXCEED THE FOLLOWING: (ENGINEER TO VERIFY)
   BENDING STRESS (EDGE LOADING), FB.....2900 PSI
   SHEAR STRESS (EDGE LOADING), FV.....290 PSI
   COMPRESSIVE STRESS PERPENDICULAR TO THE GRAIN (EDGE LOAD), FC.....750 PSI
   BENDING STRESS (PLANK LOADING), FB.....2600 PSI
   SHEAR STRESS (PLANK LOADING), FV.....210 PSI
   COMPRESSIVE STRESS PERPENDICULAR TO THE GRAIN (PLANK LOADING), FC.....475 PSI
   TENSILE STRESS, FT.....2025 PSI
   COMPRESSIVE STRESS PARALLEL TO THE GRAIN, FC.....2900 PSI
   MODULES OF ELASTICITY, E.....2,000,000 PSI
3. PARALLAM PARALLEL STRAND LUMBER (PSL) COLUMNS SHALL BE GRADE 1.8E.
4. PRODUCTS OF OTHER MANUFACTURERS WITH EQUAL OR GREATER CAPACITY MAY BE USED.

TIMBERSTRAND LAMINATED STRAND LUMBER (LSL):

1. TIMBERSTRAND LAMINATED STRAND LUMBER (LSL) BEAMS, RIM JOISTS AND STUDS SHALL BE AS MANUFACTURED BY WEYERHAEUSER. DESIGN AND INSTALLATION SHALL BE IN ACCORDANCE WITH ICC-ES ESR-1387, LARR 25202.
2. TIMBERSTRAND LAMINATED STRAND LUMBER (LSL) BEAMS AND RIM JOISTS SHALL BE GRADE1.55E AND PROVIDE STRESS VALUES THAT MEET OR EXCEED THE FOLLOWING: (ENGINEER TO VERIFY)
   BENDING STRESS (EDGE LOADING), FB.....2325 PSI
   SHEAR STRESS (EDGE LOADING), FV.....400 PSI
   COMPRESSIVE STRESS PERPENDICULAR TO THE GRAIN (EDGE LOAD), FC.....800 PSI
   BENDING STRESS (PLANK LOADING), FB.....2615 PSI
   SHEAR STRESS (PLANK LOADING), FV.....150 PSI
   COMPRESSIVE STRESS PERPENDICULAR TO THE GRAIN (PLANK LOADING), FC.....485 PSI
   TENSILE STRESS, FT.....1600 PSI
   COMPRESSIVE STRESS PARALLEL TO THE GRAIN, FC.....2050 PSI
   MODULUS OF ELASTICITY, E.....1,550,000 PSI
3. TIMBERSTRAND LAMINATED STRAND LUMBER (LSL) COLUMNS SHALL BE GRADE 1.3E.
4. PRODUCT OF OTHER MANUFACTURERS WITH EQUAL OR GREATER CAPACITY MAY BE USED.

MICROLLAM LAMINATED VENEER LUMBER (LVL):

1. MICROLAMM LAMINATED VENEER LUMBER (LVL) BEAMS, RIM JOISTS SHALL BE AS MANUFACTURED BY WEYERHAEUSER. DESIGN AND INSTALLATION SHALL BE IN ORDINANCE WITH ICC-ES ESR-1387, LARR 25202.
2. MICROLAMM LAMINATED VENEER LUMBER (LVL) BEAMS AND RIM JOISTS SHALL BE GRADE 1.8E (U.N.O.) AND PROVIDE STRESS VALUES THAT MEET OR EXCEED THE FOLLOWING: (ENGINEER TO VERIFY)
   BENDING STRESS (EDGE LOADING), FB.....2800 PSI
   SHEAR STRESS (EDGE LOADING), FV.....285 PSI
   COMPRESSIVE STRESS PERPENDICULAR TO THE GRAIN (EDGE LOAD), FC.....750 PSI
   BENDING STRESS (PLANK LOADING), FB.....2800 PSI
   SHEAR STRESS (PLANK LOADING), FV.....190 PSI
   COMPRESSIVE STRESS PERPENDICULAR TO THE GRAIN (PLANK LOADING), FC.....480 PSI
   TENSILE STRESS, FT.....1450 PSI
   COMPRESSIVE STRESS PARALLEL TO THE GRAIN, FC.....2375 PSI
   MODULUS OF ELASTICITY, E.....1,800,000 PSI
3. MICROLAMM LAMINATED VENEER LUMBER (LVL) BEAMS AND RIM JOISTS SHALL BE GRADE 2.0E (WHERE NOTED) AND PROVIDE STRESS
   VALUES THAT MEET OR EXCEED THE FOLLOW: (ENGINEER TO VERIFY)
   BENDING STRESS (EDGE LOADING), FB.....2750 PSI
   SHEAR STRESS (EDGE LOADING), FV.....285 PSI
   COMPRESSIVE STRESS PERPENDICULAR TO THE GRAIN (EDGE LOAD), FC.....750 PSI
   BENDING STRESS (PLANK LOADING), FB.....3255 PSI
   SHEAR STRESS (PLANK LOADING), FV.....190 PSI
   COMPRESSIVE STRESS PERPENDICULAR TO THE GRAIN (PLANK LOADING), FC.....480 PSI
   TENSILE STRESS, FT.....1660 PSI
   COMPRESSIVE STRESS PARALLEL TO THE GRAIN, FC.....2635 PSI
   MODULUS OF ELASTICITY, E.....2,000,000 PSI
4. PRODUCT OF OTHER MANUFACTURERS WITH EQUAL OR GREATER CAPACITY MAY BE USED.

MIN. LSL & LVL RIM JOIST BLOCKING IN LOAD BEARING WALLS.			
MAX. DEPTH	MIN. THK.	ALLOWABLE LOAD	
		lb/ft	lb
14"	1 ½"	5400	3760
20"	1 ½"	5740	4520
24"	1 ¾"	6470	4520

VERSA-LAM LAMINATED VENEER LUMBER STUDS (LVL):

1. VERSA-LAM LAMINATED VENEER LUMBER STUDS (LVL) SHALL BE AS MANUFACTURED BY BOISE CASCADE. DESIGN AND INSTALLATION SHALL BE IN ORDINANCE WITH ICC-ES ESR-1040.
2. VERSA-LAM LAMINATED VENEER LUMBER STUDS (LVL) SHALL BE GRADE VERSA-LAM LVL 2.1E2800 (U.N.O.) AND PROVIDE STRESS VALUES THAT MEET OR EXCEED THE FOLLOWING: (ENGINEER TO VERIFY)
   BENDING STRESS (EDGE LOADING), FB.....2800 PSI
   SHEAR STRESS (EDGE LOADING), FV.....285 PSI
   COMPRESSIVE STRESS PERPENDICULAR TO THE GRAIN (EDGE LOAD), FC.....750 PSI
   BENDING STRESS (PLANK LOADING), FB.....2800 PSI
   SHEAR STRESS (PLANK LOADING), FV.....190 PSI
   COMPRESSIVE STRESS PERPENDICULAR TO THE GRAIN (PLANK LOADING), FC.....450 PSI
   TENSILE STRESS, FT.....2150 PSI
   COMPRESSIVE STRESS PARALLEL TO THE GRAIN, FC.....3000 PSI
   MODULUS OF ELASTICITY, E.....2,100,000 PSI
4. PRODUCT OF OTHER MANUFACTURERS WITH EQUAL OR GREATER CAPACITY MAY BE USED.

FASTENING SCHEDULE CBC 2019 TABLE 2304.10.1 CONTINUED

DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER	SPACING AND LOCATION
FLOOR CONT.		
26. 2" PLANKS (PLANK & BEAM-FLOOR & ROOF)	(2)16d COMMON (3½"X0.162")	EACH BEARING, FACE NAIL
27. BUILT-UP GIRDERS AND BEAMS, 2" LUMBER LAYERS	20d COMMON (4"X0.192")	32"O.C. FACE NAIL AT TOP AND BOTT. STAGG. ON OPPOSITE SIDES
	10d COMMON (3"X0.128"); OR 3"X0.131" NAILS; OR 3" 14 GAGE STAPLES. 7/16" CROWN	24"O.C. FACE NAIL AT TOP AND BOTT. STAGG. ON OPPOSITE SIDES
	AND: (2)20d COMMON (4"X0.192"); OR (3)10d COMMON (3"X0.128"); OR (3)3"X0.131" NAILS; OR (3)3" 14 GAGE STAPLES. 7/16" CROWN	ENDS AND AT EACH SPLICE, FACE NAIL
28. LEDGER STRIP SUPPORTING JOISTS OR RAFTERS	(3)16d COMMON (3½"X0.162"); OR (4)10d BOX (3"X0.128"); OR (4)3"X0.131" NAILS; OR (4)3" 14 GAGE STAPLES. 7/16" CROWN	EACH JOIST OR RAFTER, FACE NAIL
29. JOIST TO BAND JOIST OR RIM JOIST	(3)16d COMMON (3½"X0.162"); OR (4)10d BOX (3"X0.128"); OR (4)3"X0.131" NAILS; OR (4)3" 14 GAGE STAPLES. 7/16" CROWN	END NAIL
30. BRIDGING OR BLOCKING TO JOIST, RAFTER OR TRUSS	(2)8d COMMON (2½"X0.131"); OR (2)10d BOX (3"X0.128"); OR (2)3"X0.131" NAILS; OR (2)3" 14 GAGE STAPLES. 7/16" CROWN	EACH END, TOENAIL

FASTENING SCHEDULE CBC 2019 TABLE 2304.10.1 CONTINUED

DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER	SPACING AND LOCATION	
WOOD STRUCTURAL PANELS (WSP), SUB-FLOOR, ROOF AND INTERIOR WALL SHEATHING TO FRAMING AND PARTICLEBOARD WALL SHEATHING TO FRAMING[A]			
		EDGES (INCHES)	INTERMEDIATE SUPPORTS (INCHES)
31. 3/8" - ½"	6d COMMON OR DEFORMED (2"X0.113") (SUB-FLOOR AND WALL)	6	12
	8d BOX OR DEFORMED (2½"X0.113") (ROOF)	6	12
	2⅜"X0.113" NAIL (SUBFLOOR AND WALL)	6	12
	1¾" 16 GAGE STAPLE. 7/16" CROWN (SUB-FLOOR AND WALL)	4	8
	2⅜"X0.113" NAIL (ROOF)	4	8
	1¾" 16 GAGE STAPLE. 7/16" CROWN (ROOF)	3	6
32. 19/32" - ¾"	8d COMMON (2½"X0.131"); OR 6d DEFORMED (2"X0.113")	6	12
	2⅜"X0.113" NAIL; OR 2" 16 GAGE STAPLE, 7/16" CROWN	4	8
33. 7/8" - 1¼"	10d COMMON (3"X0.148"); OR 8d DEFORMED (2½"X0.131")	6	12
OTHER EXTERIOR WALL SHEATHING			
34. ½" FIBERBOARD SHEATHING[B]	1½" GALVANIZED ROOFING NAIL (7/16" HEAD DIAMETER); OR 1¼" 16 GAGE STAPLE WITH 7/16" OR 1" CROWN	3	6
35. 25/32" FIBERBOARD SHEATHING[B]	1¾" GALVANIZED ROOFING NAIL (7/16" HEAD DIAMETER); OR 1½" 16 GAGE STAPLE WITH 7/16" OR 1" CROWN	3	6
36. ¾" AND LESS	8d COMMON (2½"X0.131"); OR 6d DEFORMED (2"X0.113")	6	12
37. 7/8" - 1"	8d COMMON (2½"X0.131"); OR 8d DEFORMED (2½"X0.131")	6	12
38. 1⅛" - 1¼"	10d COMMON (3"X0.148"); OR 8d DEFORMED (2½"X0.131")	6	12
WOOD STRUCTURAL PANELS (WSP), SUB-FLOOR, ROOF AND INTERIOR WALL SHEATHING TO FRAMING AND PARTICLEBOARD WALL SHEATHING TO FRAMING[A]			
		EDGES (INCHES)	INTERMEDIATE SUPPORTS (INCHES)
PANEL SIDING TO FRAMING			
39. ½" OR LESS	6d CORROSION-RESISTANT SIDING (1⅞"X0.106"); OR 6d CORROSION-RESISTANT CASING (2"X0.099")	6	12
INTERIOR PANELING			
40. 5/8"	8d CORROSION-RESISTANT SIDING (2½"X0.128"); OR 8d CORROSION-RESISTANT CASING (2½"X0.113")	6	12
41. ¾"	4d CASING (1½"X0.080"); OR 4d FINISH (1½"X0.072")	6	12
42. 3/8"	6d CASING (2"X0.099"); OR 6d FINISH (PANEL SUPPORTS AT 24")	6	12

FOR SI: 1 INCH=25.4 MM.

A. NAIL SPACED AT 6 INCHES AT INTERMEDIATE SUPPORTS WHERE SPANS ARE 48 INCHES OR MORE. FOR NAILING OF WOOD STRUCTURAL PANELS AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALL, REFER TO SECTION 2305. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX OR CASING.

B. SPACING SHALL BE 6 INCHES ON CENTER ON THE EDGES AND 12 INCHES ON CENTER AT INTERMEDIATE SUPPORTS FOR NONSTRUCTURAL APPLICATIONS. PANEL SUPPORTS AT 16 INCHES (20 INCHES IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED).

C. WHERE A RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE AND THE CEILING JOIST IS FASTENED TO THE TOP PLATE IN ACCORDANCE WITH THIS SCHEDULE, THE NUMBER OF TOENAILS IN THE RAFTER SHALL BE PERMITTED TO BE REDUCED BY ONE NAIL.

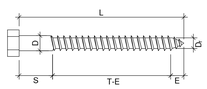
FASTENING SCHEDULE CBC 2019 TABLE 2304.10.1 CONTINUED

DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER	SPACING AND LOCATION
ROOF CONT.		
BLOCKING BETWEEN RAFTERS OR TRUSS NOT AT THE WALL TOP PLATE, TO RAFTER OR TRUSS	(2)8d COMMON (2½"X0.131") (2)3"X0.131" NAILS (2)3" 14 GAGE STAPLES	EACH END, TOENAIL
	(2)16d COMMON (3½"X0.162") (3)3"X0.131" NAILS (3)3" 14 GAGE STAPLES	END NAIL
FLAT BLOCKING TO TRUSS AND WEB FILLER	16d COMMON (3½"X0.162") @ 6"O.C. 3"X0.131" NAILS @ 16"O.C. (3)3" 14 GAGE STAPLES @ 16"O.C.	FACE NAIL
2. CEILING JOISTS TO TOP PLATE	(3)8d COMMON (2½"X0.131"); OR (3)10d BOX (3"X0.128"); OR (3)3"X0.131" NAILS; OR (3)3" 14 GAGE STAPLES. 7/16" CROWN	EACH JOIST, TOENAIL
3. CEILING JOISTS NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITIONS (NO THRUST) (SEE SECTION 2308.7.3.1, TABLE 2308.7.3.1)	(3)16d COMMON (3½"X0.162"); OR (4)10d BOX (3"X0.128"); OR (4)3"X0.131" NAILS; OR (4)3" 14 GAGE STAPLES. 7/16" CROWN	FACE NAIL
4. CEILING JOISTS ATTACHED TO PARALLEL RAFTER (HEEL JOINT) (SEE SECTION 2308.8.3.1, TABLE 2308.7.3.1)	PER TABLE 2308.7.3.1	FACE NAIL
5. COLLAR TIE TO RAFTER	(3)10d COMMON (3"X0.148"); OR (4)10d BOX (3"X0.128"); OR (4)3"X0.131" NAILS; OR (4)3" 14 GAGE STAPLES. 7/16" CROWN	FACE NAIL
6. RAFTER OR ROOF TRUSS TO TOP PLATE (SEE SECTION 2808.7.5, TABLE 2308.7.5)	(3)10d COMMON (3"X0.148"); OR (3)16d BOX (3½"X0.135"); OR (4)10d BOX (3"X0.128"); OR (4)3"X0.131" NAILS; OR (4)3" 14 GAGE STAPLES. 7/16" CROWN	TOENAIL[C]
7. ROOF RAFTERS TO RIDGE VALLEY OR HIP RAFTERS: OR ROOF RAFTER TO 2-INCH RIDGE BEAM	(2)16d COMMON (3½"X0.162"); OR (3)10d COMMON (3"X0.128"); OR (3)3"X0.131" NAILS; OR (3)3" 14 GAGE STAPLES. 7/16" CROWN;OR	ENDNAIL
	(3)10d COMMON (3½"X0.148"); OR (3)16d COMMON (3½"X0.135"); OR (4)10d BOX (3"X0.128"); OR (4)3"X0.131" NAILS; OR (4)3" 14 GAGE STAPLES. 7/16" CROWN	TOENAIL
WALL		
8. STUD TO STUD (NOT AT BRACED WALL PANELS)	16d COMMON (3½"X0.162")	24"O.C. FACE NAIL
	10d (3"X0.128"); OR 3"X0.131" NAIL; OR (3)3" 14 GAGE STAPLE, 7/16" CROWN	16"O.C. FACE NAIL
9. STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL CORNERS (AT BRACED WALL PANELS)	16d COMMON (3½"X0.162"); OR	16"O.C. FACE NAIL
	16d BOX (3½"X0.135"); OR	12"O.C. FACE NAIL
	3"X0.131" NAILS; OR (3)3" 14 GAGE STAPLE, 7/16" CROWN	12"O.C. FACE NAIL
10. BUILT-UP HEADER (2" TO 2" HEADER)	(16)16d COMMON (3½"X0.162"); OR	16"O.C. EACH EDGE, FACE NAIL
	16d BOX (3½"X0.135")	12"O.C. EACH EDGE, FACE NAIL
11. CONTINUOUS HEADER TO STUD	(4)8d COMMON (2½"X0.131"); OR (4)10d COMMON (3"X0.128")	TOENAIL
12. TOP PLATE TO TOP PLATE	16d (3½"X0.162"); OR	16"O.C. FACE NAIL
	10d (3"X0.128"); OR 3"X0.131"NAILS; OR 3" 14 GAGE STAPLES. 7/16" CROWN	12"O.C. FACE NAIL
13. TOP PLATE TO TOP PLATE, AT END JOINTS	(8)16d COMMON (3½"X0.162"); OR (12)10d COMMON (3"X0.128"); OR (12)3"X0.131" NAILS; OR (12)3" 14 GAGE STAPLES. 7/16" CROWN	EACH SIDE OF END JOINT, FACE NAIL (MIN. 24" LAP SPLICE LENGTH EACH SIDE OF END JOINT)
14. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (NOT AT BRACED WALL PANELS)	16d (3½"X0.162"); OR	16"O.C. FACE NAIL
	16d (3½"X0.135"); OR 3"X0.131" NAILS; OR 3" 14 GAGE STAPLES. 7/16" CROWN	12"O.C. FACE NAIL
15. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING AT BRACED WALL PANELS	(2)16d COMMON (3½"X0.162"); OR (3)16d BOX (3½"X0.135"); OR (4)3"X0.131" NAILS; OR (4)3" 14 GAGE STAPLES. 7/16" CROWN	16"O.C. FACE NAIL
16. STUD TO TOP OR BOTTOM PLATE	(4)8d COMMON (2½"X0.131"); OR (4)10d BOX (3"X0.128"); OR (4)3"X0.131" NAILS; OR (4)3" 14 GAGE STAPLES. 7/16"CROWN; OR	TOENAIL
	(2)16d COMMON (3½"X0.162"); OR (3)10d BOX (3"X0.128"); OR (3)3"X0.131" NAILS; OR (3)3" 14 GAGE STAPLES. 7/16" CROWN	END NAIL
17. TOP OR BOTTOM PLATE TO STUD	(2)16d COMMON (3½"X0.162"); OR (3)10d BOX (3"X0.128"); OR (3)3"X0.131" NAILS; OR (3)3" 14 GAGE STAPLES. 7/16" CROWN	END NAIL
18. TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	(2)16d COMMON (3½"X0.162") OR (3)10d BOX (3"X0.128"); OR (3)3"X0.131" NAILS; OR (3)3" 14 GAGE STAPLES. 7/16" CROWN	FACE NAIL
19. 1" BRACE TO EACH STUD AND PLATE	(2)8d COMMON (2½"X0.131"); OR (2)10d BOX (3"X0.128"); OR (2)3"X0.131" NAILS; OR (2)3" 14 GAGE STAPLES. 7/16" CROWN	FACE NAIL
20. 1"X6" SHEATHING TO EACH BEARING	(2)8d COMMON (2½"X0.131") (2)10d BOX (3"X0.128")	FACE NAIL
21. 1"X8" AND WIDER SHEATHING TO EACH BEARING	(3)8d COMMON (2½"X0.131"); OR (3)10d BOX (3"X0.128")	FACE NAIL
FLOOR		
22. JOIST TO SILL, TOP PLATE, OR GIRDER	(3)8d COMMON (2½"X0.131"); OR (3)10d BOX (3"X0.128"); OR (3)3"X0.131" NAILS; OR (3)3" 14 GAGE STAPLES. 7/16" CROWN	TOENAIL
23. RIM JOIST, BAND JOIST, OR BLOCKING TO TOP PLATE, SILL OR OTHER FRAMING BELOW	8d COMMON (2½"X0.131"); OR 10d BOX (3"X0.128"); OR (3)3"X0.131" NAILS; OR (3)3" 14 GAGE STAPLES. 7/16" CROWN	6"O.C. TOENAIL
24. 1"X6" SUB-FLOOR OR LESS TO EACH JOIST	(2)8d COMMON (2½"X0.131"); OR (2)10d BOX (3"X0.128")	FACE NAIL
25. 2" SUB-FLOOR TO JOIST OR GIRDER	(2)16d COMMON (3½"X0.162")	FACE NAIL

FRAMING LUMBER:

1. ALL FRAMING LUMBER SHALL BE COAST REGION DOUGLAS FIR-LARCH & SHALL CONFORM TO THE FOLLOWING GRADES AS ESTABLISHED BY THE W.C.L.I.B. SAWN LUMBER, MACHINE STRESS-RATED OR MACHINE-EVALUATED LUMBER, SHALL BE IDENTIFIED BY THE GRADE MARK OF LUMBER GRADING OR INSPECTION AGENCY THAT HAS BEEN APPROVED BY AN ACCREDITATION BODY THAT COMPLIES WITH DOC PS 20 OR EQUIVALENT.:
   A. STUDS: (EXCEPT AS NOTED ON DRAWINGS)
      1. 2"-4" THICK, 2"-4" WIDE, INTERIOR, NON-BEARING PARTITIONS, STANDARD GRADE.
      2. 2"-4" THICK, NO.2 OR BETTER DF.
   B. JOISTS AND RAFTERS: (EXCEPT AS NOTED ON DRAWINGS)
      1. 2"-4" THICK, 2"-4" WIDE, NO.2
      2. 2"-4" THICK, 5" AND WIDER, NO.2
   C. BEAMS AND HEADERS: (EXCEPT AS NOTED ON DRAWINGS)
      1. 2"-4" THICK, 5" AND WIDER, NO.1
      2. 5" AND THICKER, NO.1
   D. POSTS: ALL POSTS NO.1
   E. TOP PLATES: 2 X 4 NO.1 2 X 6 NO.2 OR BETTER
   F. BLOCKING: STANDARD GRADE
   G. SILL PLATES:
      1. EXTERIOR AND SHEAR WALLS 2 X OR 3X NO.2 PRESSURE TREATED
      2. INTERIOR PARTITIONS 2 X 4 STANDARD GRADE. OR BETTER PRESSURE TREATED.
   H. MICROLLAM LVL, OR PARALLAM PSL MAY BE USED IN LIU OF ANY GRADES LISTED ABOVE.
2. ALL FRAMING ANCHORS, CLIPS, STRAPS, HANGERS, ETC., SHALL BE MANUFACTURED BY SIMPSON COMPANY OR I.C.C. APPROVED EQUAL WITH 5% TOLERANCE.
3. HY-TEK FASTENERS MAY BE USED AS AN APPROVED EQUAL IN LIEU OF COMMON, SHORT, BOX, SINKER NAILS, AND SIMPSON SDS SCREWS AS APPROVED IN ICC-ES ESR-2648 (LARR 25959 IN THE CITY OF LOS ANGELES).
4. ALL BEAM AND JOIST HANGERS SHALL BE THE FULL DEPTH OF THE MEMBER IT IS SUPPORTING.
5. ALL BEAM AND JOIST METAL HANGERS SHALL HAVE ALL HOLES FILLED PER MANUF. TO ACHIEVE MAX CAPACITY.
6. MAXIMUM UNFRAMED HOLES IN SHEATHING SHALL BE 3" IN DIAMETER. WHERE POSSIBLE, LOCATE HOLE IN WALL MIDWAY BETWEEN THE JOISTS. WHERE SQUARE HOLES ARE CUT, DO NOT RUN SAW BEYOND THE CORNER OF THE OPENING.
7. ALL WOOD SHEATHING SHALL BE APA RATED EXPOSURE 1 UNO. WHERE PLYWOOD IS PERMANENTLY EXPOSED TO WEATHER, OR USED IN DECKS, THE EXPOSURE RATING SHALL BE EXTERIOR. WOOD STRUCTURAL PANELS SHALL CONFORM TO THE REQUIREMENTS FOR THEIR TYPE IN DOC PS 1 OR PS 2. EACH PANEL OR MEMBER SHALL BE IDENTIFIED FOR GRADE AND GLUE TYPE BY THE TRADEMARKS OF AN APPROVED TESTING AND GRADING AGENCY. DIAPHRAGMS STRUCTURAL I U.N.O.
8. WHERE ROOF AND/OR FLOOR SHEATHING IS NAILED AT 2 1/2" O.C., ALL FRAMING INCLUDING BLOCKING SHALL BE 3X NOMINAL.
9. ALL EDGE NAILING ON SHEAR WALL PLY. SHALL MAINTAIN A 3/8" MIN. CLR. DISTANCE @ ALL BOUNDARY NAILING ON ROOF OR FLOOR PLYWOOD SHEATHING SHALL MAINTAIN A 3/8" MIN. CLR.
10. WHERE SPECIFIED, PRESERVATIVE TREATMENT BY PRESSURE PROCESS: AWPA U1: USE CATEGORY UC2 FOR INTERIOR CONSTRUCTION NOT IN CONTACT WITH GROUND, USE CATEGORY UC3B FOR EXTERIOR CONSTRUCTION NOT IN CONTACT WITH GROUND, AND USE CATEGORY UC4A FOR ITEMS IN CONTACT WITH GROUND. PRESERVATIVE CHEMICALS: ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION AND CONTAINING NO ARSENIC OR CHROMIUM. DO NOT USE INORGANIC BORON (SBX) FOR SILL PLATES EXCEPT FOR INTERIOR DRY ENVIRONMENTS.
11. FASTENERS IN CONTACT WITH PRESERVATIVE-TREATED WOOD SHALL BE HOT-DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER. FASTENERS OTHER THAN NAIL, TIMBER RIVETS, WOOD SCREWS AND LAG SCREWS SHALL BE PERMITTED TO BE OF MECHANICALLY DEPOSITED ZINC-COATED STEEL WITH COATING WEIGHTS IN ACCORDANCE WITH ASTM B 695, CLASS 55 MINIMUM. CONNECTORS THAT ARE USED IN EXTERIOR APPLICATIONS AND IN CONTACT WITH PRESERVATIVE-TREATED WOOD SHALL HAVE COATING TYPES AND WEIGHTS IN ACCORDANCE WITH THE TREATED WOOD OR CONNECTOR MANUFACTURER'S RECOMMENDATIONS. IN THE ABSENCE OF MANUFACTURER'S RECOMMENDATIONS, A MINIMUM OF ASTM A 653, TYPE G185 ZINC-COATED GALVANIZED STEEL, OR EQUIVALENT, SHALL BE USED. EXCEPTION: PLAIN CARBON STEEL FASTENERS IN SBX/DOT AND ZINC BORATE PRESERVATIVE-TREATED WOOD IN AN INTERIOR, DRY ENVIRONMENT SHALL BE PERMITTED.
12. MARINE ENVIRONMENT CONDITIONS:
   A. EXPOSED FASTENERS/CONNECTORS REQUIRED TO BE TYPE 316 STAINLESS STEEL THROUGHOUT (I.E. SDS SCREWS, HFX CONNECTORS).
   B. MACHINE BOLTS AND LAG SCREWS REQUIRED TO BE HOT DIPPED GALVANIZED WHERE CONCEALED IN FRAMING AND EXTERIOR FINISH.
13. GRADE AND SPECIES OF ALL LUMBER MUST BE GRADE MARKED.
14. ALL DIAPHRAGMS AND SHEAR WALL NAILING SHALL UTILIZE COMMON NAILS OR GALVANIZED BOX.
15. ALL BOLTS SHALL BE DRILLED 1/32 TO 1/16" OVERSIZED.
16. ALL 2X6 AND SMALLER, AND ALL 4X, SHALL BE DRY TO 19% MAX, AND PLYWOOD 15% MAX MOISTURE CONTENT AT TIME OF WRAPPING EXCEPT FOR BLOCKING. LUMBER THAT IS ARCHITECTURALLY EXPOSED AND SENSITIVE TO WARPING, SAP, AND SPLITTING SHALL BE KILN DRY.
17. WHERE ROUGH CARPENTRY IS EXPOSED TO WEATHER, IN GROUND CONTACT, PRESSURE-PRESERVATIVE TREATED, OR IN AREA OF HIGH RELATIVE HUMIDITY, PROVIDE FASTENERS WITH HOT-DIP ZINC COATING COMPLYING WITH ASTM A 153/A 153M OR TYPE 304 STAINLESS STEEL.
18. ALL UNPROTECTED WOOD SHALL BE PRESERVATIVE-TREATED, OR NATURALLY DURABLE SPECIES. AT EXTERIOR WOOD-FRAMED BALCONIES, DECKS AND WALKING SURFACES, WHERE WOOD FRAMING IS PROTECTED BY WATERPROOFING AND FINISHES, IT IS RECOMMENDED THAT IT BE PRESERVATIVE-TREATED. PROVIDE AN IMPERVIOUS MOISTURE BARRIER SYSTEM WITH POSITIVE DRAINAGE AS DETAILED IN THE ARCHITECTURAL DRAWINGS AND INSPECTED PRIOR TO CONCEALING. PROVIDE CROSS VENTILATION OF AT LEAST 1/150 NET FREE AREA OF ENCLOSED SPACES. (CBC SECTIONS 107.2.5, 110.3.6 & 2304.12.2)
19. LAG SCREWS SHALL BE BORED AS FOLLOWS:
   A. THE CLEARANCE HOLE FOOT THE SHANK SHALL HAVE THE SAME DIAMETER AS THE SHANK, AND THE SAME DEPTH OF PENETRATION AS THE LENGTH OF UNTHREADED SHANK.
   B. THE LEAD HOLE FOR THE THREADED PORTION SHALL HAVE A DIAMETER EQUAL TO 40%-70% IN WOOD W/G ≤ 0.5 AND A LENGTH EQUAL TO AT LEAST THE LENGTH OF THE THREADED PORTION. THE LARGER PERCENTILE IN EA. RANGE SHALL APPLY TO LAG SCREWS OF GREATER DIAMETERS. LEAD HOLES OR CLEARANCE HOLES SHALL NOT BE REQUIRED FOR 3/8" AND SMALLER DIAMETER LAG SCREWS LOADED PRIMARILY IN WITHDRAWAL IN WOOD W/ G ≤ 0.5, PROVIDED THAT EDGE DISTANCES, END DISTANCES, AND SPACING ARE SUFFICIENT TO PREVENT UNUSUAL SPLITTING. THE THREADED PORTION OF THE LAG SCREW SHALL BE INSERTED IN ITS LEAD HOLE BY TURNING WITH A WRENCH, NOT BY DRIVING W/ A HAMMER. SOAP OR OTHER LUBRICANT SHALL NOT BE USED ON THE LAG SCREWS OR IN THE LEAD HOLES TO FACILITATE INSERTION AND PREVENT DAMAGE TO THE SCREW.

D = UNTHREADED SHANK DIAMETER
S = UNTHREADED SHANK LENGTH
Dr = ROOT DIAMETER OF THREADED PORTION
T = THREAD LENGTH
W = WIDTH OF HEAD ACROSS FLATS
E = LENGTH OF TAPERED TIP
H = HEIGHT OF HEAD
M = NUMBER OF THREADS/INCH



TYPICAL NAIL DIMENSIONS

TYPE		PENNY-WEIGHT									
		6d	7d	8d	10d	12d	16d	20d	30d	40d	50d	60d
COMMON	LENGTH	2	2¼	2½	3	3¼	3½	4	4½	5	5½	6
	DIAMETER	0.113	0.113	0.131	0.148	0.148	0.162	0.192	0.207	0.225	0.244	0.263
	HEAD	0.266	0.266	0.281	0.312	0.

SIMPSON PRODUCT EVALUATION REPORT	
PRODUCT	ICC-ES ESR #
A34 , A35	112
BP	1161
CBSQ	3050
CTS218	2105
DTT1Z	2330
H2 , H2.5	2613
HDU	2330
'HGA'	112
HU , HUC	2549
LTP4	112
'MST'	2105
PDPAWL	2138
SET-XP	2508
SET-3G	4057
'ST12'	2105
TITEN HD	2713 CONCRETE- RR 25741 CMU: RR 25741
'U' HNGR	2549

STRUCTURAL STEEL:

1. STRUCTURAL STEEL:
   PROVIDE STRUCTURAL STEEL COMPLYING WITH THE FOLLOWING ASTM STANDARD SPECIFICATIONS, UNLESS NOTED OTHERWISE:
   ANGLES AND CHANNELS..... ASTM A36
   PLATES..... ASTM A36
   HOLLOW STRUCTURAL SECTIONS..... ASTM A500, GRADE B (46 KSI)
   STRUCTURAL STEEL NOTED THUS (50)..... ASTM A572 OR A992, GRADE 50
   ANCHOR BOLTS / THREADED ROD..... ASTM F1554, GRADE 36 U.N.O
   BOLTS (SS)..... ASTM F593
   BOLTS..... ASTM A325
   REINFORCING STEEL..... SEE REINFORCING STEEL SECTION

   WHERE NOTED ON PLANS AS (SS), SHALL BE STAINLESS STEEL, ASTM A709 GRADE 50R, STAINLESS STEEL MECHANICAL TUBING SHALL BE PER ASTM A554 STANDARD SPECIFICATION, AND ALL STAINLESS BARS AND SHAPES SHALL BE PER ASTM A276 STANDARD SPECIFICATIONS.

   FURNISH READILY IDENTIFIABLE STRUCTURAL STEEL COMPLYING WITH CBC 2019 SECTION 2202A.

2. WELDING:
   A. WELDING STANDARD: AWS D1.1 AND AISC 360 (AWS D1.8 AND AISC 341 FOR SEISMIC FORCE RESISTING SYSTEM)
   B. WELDING PROCESS: WELDING PROCEDURES ARE 'MEANS AND METHODS' SELECTED BY THE CONTRACTOR FROM AN APPROVED PROCEDURE IN THE AWS D1.1.
   C. PRE-QUALIFIED & NON PRE-QUALIFIED WELDS: WELDS SHALL BE PRE-QUALIFIED COMPLYING WITH WELDING STANDARD. WHERE NON PRE-QUALIFIED WELDS ARE SPECIFICALLY INDICATED, QUALIFY BY TESTING AND PROCEDURE QUALIFICATION TEST RECORD COMPLYING WITH WELDING STANDARD.
   D. WELDER CERTIFICATION: WELDERS SHALL BE CERTIFIED AS REQUIRED BY GOVERNING CODE AUTHORITY.
   E. SPECIAL INSPECTION OF FABRICATED ITEMS: WHERE FABRICATION OF STRUCTURAL, LOAD-BEARING OR LATERAL LOAD-RESISTING MEMBERS OR ASSEMBLIES IS BEING CONDUCTED ON THE PREMISES OF A FABRICATOR'S SHOP, SPECIAL INSPECTIONS OF THE FABRICATED ITEMS SHALL BE PERFORMED DURING FABRICATION PER CBC 2019 SECTION 1704A.2.5
   F. MINIMUM FILLET WELD SIZE: PROVIDE MINIMUM FILLET WELD COMPLYING WITH AISC 360 SECTION J2 AND TABLE J2.4 UNLESS A LARGER WELD IS INDICATED ON DRAWINGS.
   G. SHOP AND FIELD WELDING INDICATION ON DRAWINGS: NO ATTEMPT IS MADE TO DIFFERENTIATE BETWEEN SHOP AND FIELD WELDED CONNECTIONS.
3. WELD INSPECTION:
   A. LEAD WELDING INSPECTOR CERTIFICATION: LEAD WELDING INSPECTOR SHALL BE A CERTIFIED WELDING INSPECTOR (CWI) COMPLYING WITH AWS-QC1 STANDARDS, SHALL BE RECOGNIZED BY THE BUILDING OFFICIAL AS A REGISTERED DEPUTY INSPECTOR FOR STRUCTURAL STEEL WELDING (ICC CERTIFICATION) AND SHALL POSSES A MINIMUM LEVEL OF UT LEVEL II CERTIFICATION.
   B. OTHER WELDING INSPECTORS: WELDING INSPECTORS PERFORMING VISUAL INSPECTION UNDER THE SUPERVISION OF THE LEAD WELDING INSPECTOR SHALL POSSES ICC CERTIFICATION, AND PERSONS PERFORMING NON-DESTRUCTIVE TESTING SHALL POSSES UT LEVEL II CERTIFICATION. FOUR NON-CERTIFIED WELDING INSPECTORS MAXIMUM SHALL BE UNDER THE SUPERVISION OF A CWI.
   C. WELD INSPECTIONS: PROVIDE WELD INSPECTIONS AS REQUIRED BY CBC SECTION 1705.2 AND AISC 360 CHAPTER N (AISC 341 CHAPTER J FOR SEISMIC FORCE RESISTING SYSTEM). SEE STATEMENT OF SPECIAL INSPECTION AND QUALITY ASSURANCE SECTION.
4. THE STRUCTURAL STEEL FABRICATOR SHALL FURNISH SHOP DRAWINGS OF ALL STEEL FOR THE ENGINEERS REVIEW PRIOR TO FABRICATION. ALL STEEL FABRICATION SHALL BE PERFORMED IN A SHOP APPROVED BY THE BUILDING DEPARTMENT.
5. EXCEPT WHERE ENCASED IN CONCRETE, MASONRY, OR SPRAYED-ON FIREPROOFING, ALL STEEL SHALL BE PRIMERED UNLESS NOTED OTHERWISE ON THE DRAWINGS. PAINTING OF STRUCTURAL STEEL MEMBERS SHALL COMPLY WITH THE REQUIREMENTS CONTAINED IN AISC 360.
6. OPENINGS SHALL NOT BE PLACED IN STEEL MEMBERS UNLESS SPECIFICALLY DETAILED. STEEL MEMBERS SHALL BE NOTCHED ONLY WHERE PERMISSIBLE HOLES ARE CUT WITH A TORCH AFTER STEEL IS ERECTED. THE SHORES SHALL REMAIN IN PLACE UNTIL THE STEEL TEMPERATURE HAS RETURNED TO AIR TEMPERATURE.
7. STRUCTURAL STEEL SHALL BE DELIVERED TO THE JOB SITE FREE OF EXCESSIVE RUST, MILL SCALE, GREASE, ETC. AND SHALL BE PRIMED.
8. NON-SHRINK GROUTS OR DRY-PACKS SHALL BE 6000 PSI MIN. ASTM C109 W/ SPECIAL INSPECTION REQUIRED TYP. BASE PLATES SHALL BE GROUTED PRIOR TO PLACEMENT OF CONCRETE ON ANY UPPER FLOORS.
9. ALL ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) SHALL MEET THE MINIMUM SPECIFICATIONS IN THE AISC CODE OF STANDARD PRACTICE CHAPTER 10 UNLESS NOTED OTHERWISE ON THE ARCHITECTURAL DRAWINGS.
10. ANCHOR ROD HOLES IN BASE PLATES:
    A. ANCHOR ROD HOLES IN BASE PLATES W/O WASHER PLATES, MAXIMUM HOLE SIZE SHALL BE THE ANCHOR DIAMETER +⅛" MAX.
    B. ANCHOR ROD HOLES IN BASE PLATES W/ WASHER PLATES:

MAXIMUM SIZES FOR ANCHOR-ROD HOLES IN BASE PLATES

ANCHOR ROD DIAMETER, IN.	MAX. HOLE DIAMETER, IN.	MIN. WASHER SIZE, IN.	MIN. WASHER THICKNESS	ANCHOR ROD DIAMETER, IN.	MAX. HOLE DIAMETER, IN.	MIN. WASHER SIZE, IN.	MIN. WASHER THICKNESS
¾	1 1/16	2	¼	1½	2 5/16	3½	½
⅞	1 1/16	2½	5/16	1¾	2¾	4	5/8
1	1 3/16	3	⅜	2	3¼	5	¾
1¼	2 5/16	3	½	2½	3¾	5½	⅞

NOTES:
1. CIRCULAR OR SQUARE WASHERS MEETING THE WASHER SIZE ARE ACCEPTABLE.
2. CLEARANCE MUST BE CONSIDERED WHEN CHOOSING AN APPROPRIATE ANCHOR ROD HOLE LOCATION, NOTHING EFFECTS SUCH AS THE POSITION OF THE ROD IN THE HOLE WITH RESPECT TO THE COLUMN, WELD SIZE AND OTHER INTERFERENCES.
3. WHEN BASE PLATES ARE LESS THAN 1½ IN. THICK, PUNCHING OF HOLES MAY BE AN ECONOMICAL OPTION. IN THIS CASE, ¾-IN. ANCHOR RODS AND 1 5/16-IN. DIAMETER PUNCHED HOLES MAY BE USED WITH ASTM F844 (USS STANDARD) WASHERS IN PLACE OF FABRICATED PLATE WASHERS.
4. FOR USE AT LFRS MEMBERS, WELDING OF WASHER ¢ TO BASE ¢ REQUIRED. (FILLET WELD = WASHER ¢ THK - 1/16 IN. U.N.O. SUBJECT TO E.O.R. APPROVAL.)

MASONRY:

1. ALL MASONRY SHALL COMPLY WITH ANGELUS BLOCK SPECIFICATIONS.
2. MIN. SPECIFIED COMPRESSIVE STRENGTH SHALL BE f'm = 2,000 PSI, UNLESS OTHERWISE SPECIFIED ON THE PLANS.
3. BLOCK SHALL BE MEDIUM WEIGHT UNITS CONFORMING TO ASTM C-90 GRADE N-1. USE UNITS OPEN ONE END, AND BOND BEAM UNITS AT HORIZONTAL REINFORCING. WHEN BLOCKS ARE EXPOSED OBTAIN APPROVAL OF SUBMITTAL FROM ARCHITECT.
4. MORTAR (TYPE M OR S) SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH EQUAL TO THE BLOCK STRENGTH OR 2,000 PSI, WHICHEVER IS GREATER.
5. CEMENT: ASTM C-150, LOW ALKALI, TYPE I OR II PORTLAND CEMENT. (MASONRY CEMENT AND PLASTIC CEMENT SHALL NOT BE USED.)
6. MORTAR:
   A. CONFORMING TO ASTM C-270, TYPE M OR S.
   B. MIX PROPORTIONS SHALL CONFORM TO ASTM C-270.
   C. AGGREGATES SHALL CONFORM TO ASTM C-144.
7. GROUT:
   A. CONFORMING TO ASTM C-476.
   B. ATTAINS THE MASONRY COMPRESSIVE STRENGTH f'm OR 2,000 PSI AT 28 DAYS, WHICHEVER IS GREATER.
   C. MIX PROPORTIONS SHALL CONFORM TO ASTM C-476.
   D. AGGREGATES SHALL CONFORM TO ASTM C-404.
   E. DO NOT USE ADMIXTURES UNLESS ACCEPTABLE. FIELD ADDITION OF ADMIXTURES IS NOT PERMITTED IN SELF-CONSOLIDATING GROUT. TMS 602-13, 2.2C
8. REINFORCING STEEL: USE ASTM A 706 OR ASTM A 615 GRADE 60.
9. MINIMUM GROUTING: SOLID GROUT ALL CELLS UNLESS NOTED OTHERWISE.
10. VERTICAL EXPANSION JOINTS SHALL BE PROVIDED AT 26'-0" o/c MAXIMUM. EXPANSION JOINT MATERIALS SHALL BE PER ASTM C90, D994, OR D1056 CLASS 2A1.
11. SPECIAL INSPECTION OF WORK IS REQUIRED FOR ALL MASONRY STRUCTURES PER TMS 402/ACI 530/ASCE 5 LEVEL B QUALITY ASSURANCE, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
12. ALL BOLTS SHALL BE GROUTED IN PLACE WITH AT LEAST 1 INCH OF GROUT BETWEEN THE BOLT AND THE MASONRY.
13. THE CLEAR DISTANCE BETWEEN PARALLEL BARS SHALL NOT BE LESS THAN THE NOMINAL DIAMETER OF THE BARS, NOR LESS THAN 1 IN. (25.4mm).
14. IN COLUMNS AND PILASTERS, THE CLEAR DISTANCE BETWEEN VERTICAL BARS SHALL NOT BE LESS THAN ONE AND ONE-HALF TIMES THE NOMINAL BAR DIAMETER, NOR LESS THAN 1½ IN. (38.1mm).
15. THE CLEAR DISTANCE LIMITATIONS BETWEEN BARS REQUIRED IN SECTIONS 1.13.3.1 AND 1.13.3.2 SHALL ALSO APPLY TO THE CLEAR DISTANCE BETWEEN A CONTACT LAP SPLICE AND ADJACENT SPLICES OR BARS.
16. GROUPS OF PARALLEL REINFORCING BARS BUNDLED IN CONTACT TO ACT AS A UNIT SHALL BE LIMITED TO TWO IN ANY ONE BUNDLE. INDIVIDUAL BARS IN A BUNDLE CUT OFF WITHIN THE SPAN OF A MEMBER SHALL TERMINATE AT POINTS AT LEAST 40 BAR DIAMETER APART.
17. REINFORCEMENT EMBEDDED IN GROUT SHALL HAVE A THICKNESS OF GROUT BETWEEN THE REINFORCEMENT AND MASONRY UNITS NOT LESS THAN ¼ IN. (6.4mm) FOR FINE GROUT OR ½ IN. (12.7mm) FOR COARSE GROUT.
18. REINFORCING BARS SHALL HAVE A MASONRY COVER NOT LESS THAN THE FOLLOWING:
    A. MASONRY FACE EXPOSED TO EARTH OR WEATHER: 2 IN. (50.8mm) FOR BARS LARGER THAN NO.5 (M #16); 1½ IN. (38.1mm) FOR NO.5 (M #16) BARS OR SMALLER.
    B. MASONRY NOT EXPOSED TO EARTH OR WEATHER: ½ IN. (38.1mm).
19. LONGITUDINAL WIRES OF JOINT REINFORCEMENT SHALL BE FULLY EMBEDDED IN MORTAR OR GROUT WITH A MINIMUM COVER OF ⅝ IN. (15.9mm) WHEN EXPOSED TO EARTH OR WEATHER AND ½ IN. (12.7mm) WHEN NOT EXPOSED TO EARTH OR WEATHER. JOINT REINFORCEMENT SHALL BE STAINLESS STEEL OR PROTECTED FROM CORROSION BY HOT-DIPPED GALVANIZED COATING OR EPOXY COATING WHEN USED IN MASONRY EXPOSED TO EARTH OR WEATHER AND IN INTERIOR WALLS EXPOSED TO A MEAN RELATIVE HUMIDITY EXCEEDING 75 PERCENT. ALL OTHER JOINT REINFORCEMENT SHALL BE MILL GALVANIZED, HOT-DIP GALVANIZED, OR STAINLESS STEEL.
20. WALL TIES, SHEET-METAL ANCHORS, STEEL PLATES AND BARS, AND INSERTS EXPOSED TO EARTH OR WEATHER, OR EXPOSED TO A MEAN RELATIVE HUMIDITY EXCEEDING 75 PERCENT SHALL BE STAINLESS STEEL OR PROTECTED FROM CORROSION BY HOT-DIP GALVANIZED COATING OR EPOXY COATING. WALL TIES, ANCHORS, AND INSERTS SHALL BE MILL GALVANIZED, HOT-DIP GALVANIZED, OR STAINLESS STEEL FOR ALL OTHER CASES. ANCHOR BOLTS, STEEL PLATES, AND BARS NOT EXPOSED TO EARTH, WEATHER, NOR EXPOSED TO A MEAN RELATIVE HUMIDITY EXCEEDING 75 PERCENT, NEED NOT BE COATED.
21. REINFORCEMENT SHALL BE SUPPORTED AND FASTENED TOGETHER TO PREVENT DISPLACEMENTS BEYOND THE TOLERANCES ALLOWED BY SECTION 3.4 OF ACI 530.1 PRIOR TO GROUTING.
22. THE MAXIMUM HEIGHT OF A POUR, WHICH IS CONSIDERED AS THE ENTIRE HEIGHT OF GROUT FILL PLACED IN ONE DAY AND IS COMPOSED OF A NUMBER OF SUCCESSIVELY PLACED GROUT LIFTS (DSA IR 21-2 SECTION 1.3), SHALL NOT EXCEED 12 FEET WHEN THE MASONRY HAS CURED FOR 4 HOURS, THE GROUT SLUMP IS MAINTAINED BETWEEN 10 AND 11 INCHES AND NO INTERMEDIATE REINFORCED BOND BEAMS ARE PLACED BETWEEN THE TOP AND THE BOTTOM OF THE POUR HEIGHT, OTHERWISE, PLACE GROUT IN LIFTS NOT EXCEEDING 5 FEET. (SECTION 3.5 OF ACI 530.1)
23. PIPES AND CONDUITS EMBEDDED IN MASONRY SHALL NOTE REDUCE THE REQUIRED STRENGTH. (SECTION 1.16.2 OF ACI 530)
24. SUPPORT AND FASTEN REINFORCEMENT TOGETHER TO PREVENT DISPLACEMENT BEYOND THE TOLERANCES ALLOWED BY CONSTRUCTION LOADS OR BY PLACEMENT OF GROUT OR MORTAR.
25. COMPLETELY EMBED REINFORCING BARS IN GROUT IN ACCORDANCE WITH ARTICLE 3.5 ACI 350.
26. MAINTAIN CLEAR DISTANCE BETWEEN REINFORCING BARS AND ANY FACE OF MASONRY UNIT OR FORMED SURFACE, BUT NOT LESS THAN ¼ IN. (6.4mm) FOR FINE GROUT OR ½ IN. (12.7mm) FOR COARSE GROUT.
27. SPLICE ONLY WHERE INDICATED ON THE PROJECT DRAWINGS, UNLESS OTHERWISE ACCEPTABLE. WHEN SPLICING BY WELDING, PROVIDE WELDS IN CONFORMANCE WITH THE PROVISIONS OF AWS D1.4.
28. UNLESS ACCEPTED BY THE ARCHITECT/ENGINEER, DO NOT BEND REINFORCEMENT AFTER IT IS EMBEDDED IN GROUT OR MORTAR.
29. NON-CONTACT LAP SPLICES - POSITION BARS SPLICED BY NON-CONTACT LAP SPLICE NO FARTHER APART TRANSVERSELY THAN ONE-FIFTH THE SPECIFIED LENGTH OF LAP NOR MORE THAN 8 IN. (203mm).
30. TOLERANCES FOR THE PLACEMENT OF REINFORCING BARS IN WALLS AND FLEXURAL ELEMENTS SHALL BE ± ½ IN. (12.7mm) WHEN THE DISTANCE FROM THE CENTERLINE OF REINFORCING BARS TO THE OPPOSITE FACE OF MASONRY, d, IS EQUAL TO 8 IN. (203mm) OR LESS, ± 1 IN. (25.4mm) FOR d EQUAL TO 24 IN. (610mm) OR LESS BUT GREATER THAN 8 IN. (203mm), AND ± 1¼ IN. (31.8mm) FOR d GREATER THAN 24 IN. (610mm).
31. PLACE VERTICAL BARS WITHIN 2 IN. (50.8mm) OF THE REQUIRED LOCATION ALONG THE LENGTH OF THE WALL.
32. IF IT IS NECESSARY TO MOVE BARS MORE THAN ONE BAR DIAMETER OR A DISTANCE EXCEEDING THE TOLERANCE STATED ABOVE TO AVOID INTERFERENCE WITH OTHER REINFORCING STEEL, CONDUITS, OR EMBEDDED ITEMS, NOTIFY THE ARCHITECT/ENGINEER FOR ACCEPTANCE OF THE RESULTING ARRANGEMENT OF BARS.
33. FOUNDATION DOWELS THAT INTERFERE WITH UNIT WEBS ARE PERMITTED TO BE BENT TO A MAXIMUM OF 1 IN. (25mm) HORIZONTALLY FOR EVERY 6 IN. (152mm) OF VERTICAL HEIGHT.
34. EMBED HEADED AND BENT-BAR ANCHOR BOLTS LARGER THAN ¾ IN. (6.4mm) DIAMETER IN GROUT THAT IS PLACED IN ACCORDANCE WITH ARTICLE 3.5 A AND ARTICLE 3.5 B ACI 350. ANCHOR BOLTS OF ¼ IN. (6.4mm) DIAMETER OR LESS ARE PERMITTED TO BE PLACED IN GROUT OR MORTAR BED JOINTS THAT HAVE A SPECIFIED THICKNESS OF AT LEAST ½ IN. (12.7mm) THICKNESS.
35. MAINTAIN CLEAR DISTANCE BETWEEN ANCHOR BOLTS AND ANY FACE OF MASONRY UNIT OR FORMED SURFACE OF AT LEAST ¼ IN. (6.4mm) WHEN USING FINE GROUT, AND OF AT LEAST ½ IN. (12.7mm) WHEN USING COARSE GROUT.
36. PLACE ANCHOR BOLTS WITH A CLEAR DISTANCE BETWEEN PARALLEL ANCHOR BOLTS NOT LESS THAN THE NOMINAL DIAMETER OF THE ANCHOR BOLT, NOR LESS THAN 1 IN. (25.4mm).
37. OWNER WILL ENGAGE A QUALIFIED INDEPENDENT TESTING AGENCY TO PERFORM PRECONSTRUCTION TESTING INDICATED BELOW. RETESTING OF MATERIALS THAT FAIL TO COMPLY WITH SPECIFIED REQUIREMENTS SHALL BE DONE AT CONTRACTOR'S EXPENSE.
38. CONCRETE MASONRY UNIT TEST: FOR EACH TYPE OF UNIT REQUIRED, ACCORDING TO ASTM C 140 FOR COMPRESSIVE STRENGTH.
39. MORTAR TEST (PROPERTY SPECIFICATION): FOR EACH MIX REQUIRED, ACCORDING TO ASTM C 109/C 109M FOR COMPRESSIVE STRENGTH[, ASTM C 1506 FOR WATER RETENTION, AND ASTM C 91 FOR AIR CONTENT].
40. MORTAR TEST (PROPERTY SPECIFICATION): FOR EACH MIX REQUIRED, ACCORDING TO ASTM C 780 FOR COMPRESSIVE STRENGTH.
41. GROUT TEST (COMPRESSIVE STRENGTH): FOR EACH MIX REQUIRED, ACCORDING TO ASTM C 1019.
42. COMPRESSIVE STRENGTH OF MASONRY BASED ON THE COMPRESSIVE STRENGTH OF CONCRETE MASONRY UNITS AND TYPE OF MORTAR (LINEAR INTERPOLATION OF COMPRESSIVE STRENGTH OF CONCRETE MASONRY UNITS, PSI (MPa)

NOMINAL COMPRESSIVE STRENGTH OF CONCRETE MASONRY, PSI (MPa)	TYPE M OR S MORTAR	TYPE N MORTAR
1,700 (11.72)	---	1,900 (13.10)
1,900 (13.10)	1,900 (13.10)	2,350 (14.82)
2,000 (13.79)	2,000 (13.79)	2,650 (18.27)
2,250 (15.51)	2,600 (17.93)	3,400 (23.44)
2,500 (17.24)	3,250 (22.41)	4,350 (28.96)
2,750 (18.96)	3,900 (26.89)	----
3,000 (20.69)	4,500 (31.03)	----

1. FOR UNITS OF LESS THAN 4 IN. (102 mm) NOMINAL HEIGHT, USE 85 PERCENT OF THE VALUES LISTED.

43. VERIFY & ADVISE ARCHITECT OF ROUGH OPENINGS NOT ON MASONRY COURSING. VERIFY TOP OF FOOTING ELEVATIONS FOR PROPER COURSING ELEVATIONS.

AGENCY

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122536 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/24/2023

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LICENSED ARCHITECT C-26053 Ren. Date 08/31/2023 STATE OF CALIFORNIA

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Drawn by

Checked by

Revisions

No.	Date	Description

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared for a specific site. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Flewelling & Moody.

SOUTHERN KERN UNIFIED SCHOOL DISTRICT
ROSAMOND HIGH SCHOOL

CAFETERIA BUILDING

2925 ROSAMOND BLVD.
ROSAMOND, CA 93560

GENERAL NOTES

Job No.
22005

Date
06-07-22

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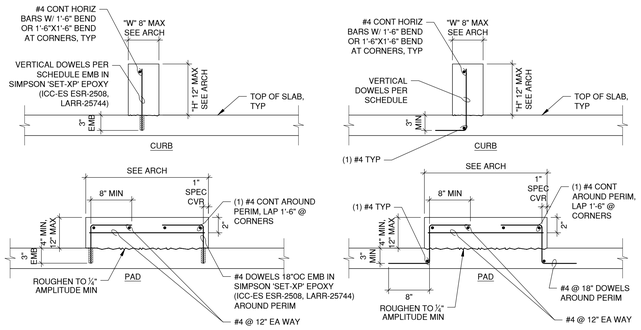


NOTES:
1. SEE ARCH & MECH FOR SIZE & LOCATION OF CURBS
2. PROVIDE INSERTS AS REQ'D BY ARCH & MECH DWGS.
3. SLAB REINF NOT SHOWN

VERTICAL DOWEL SCHEDULE	
CURB HEIGHT	W ≤ 8"
H ≤ 12"	#4 @ 18 CENTERED
12 < H ≤ 18"	#4 @ 12 CENTERED

LEGEND:
H = CURB HEIGHT
W = CURB WIDTH

CURBS & PADS

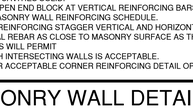
SCALE:1"=1'-0" | 9

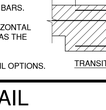
TYP AB IN CMU WALL

SCALE:1"=1'-0" | 14

NOTE:
TABLES IN THIS DETAIL CONTAIN REINFORCEMENT LAP SPLICE LENGTHS THAT ACHIEVE NOT ONLY BUILDING CODE COMPLIANCE, BUT ALSO COMPLIANCE WITH THE 'STANDARD PRACTICE FOR BRACING MASONARY WALLS UNDER CONSTRUCTION' (WHICH IS IMPORTANT FOR LIFE SAFETY AT THE JOB SITE).

THEREFORE, THE VALUES INCLUDED IN THE TABLES ARE THE MORE RESTRICTIVE OF: 1.) THE LAP LENGTHS DETERMINED USING THE TMS 402/602 AND, 2.) 48 BAR DIAMETER (THE 24 HOUR SPLICE LENGTH CRITERIA FROM THE 'STANDARD PRACTICE FOR BRACING'). MANY OF THE LISTED VALUES ARE CONTROLLED BY THE 48 BAR DIAMETER CRITERIA, WHICH IS NECESSARY FOR THE DEVELOPMENT OF BOTH INTERNAL AND EXTERNAL TEMPORARY BRACING IN THE VAST MAJORITY OF WALL CONDITIONS.





'd' = ½ X ACTUAL UNIT THICKNESS

TABLE #1- LAP SPLICE LENGTHS FOR MASONRY WALLS (INCHES):

BARS CENTERED IN WALL			
BAR SIZE	8" CMU	12" CMU	16" CMU
#3	18	18	18
#4	24	24	24
#5	30	30	30
#6	**38**	36	36
#7	-	42	42
#8	-	**50**	48
#9	-	**64**	54
NOTE: TABLE DOES NOT APPLY TO EPOXY COATED BARS			

TABLE #2- LAP SPLICE LENGTHS FOR MASONRY WALLS (INCHES):

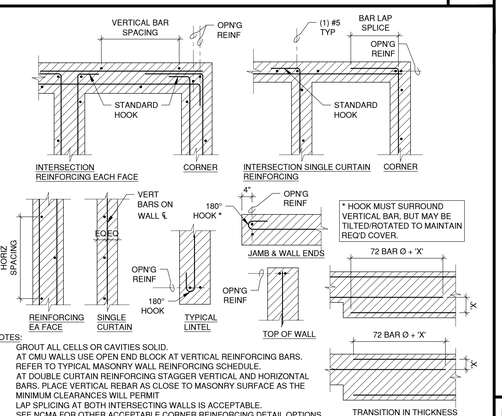
BARS PLACED NEAR EDGE			
BAR SIZE	8" CMU	12" CMU	16" CMU
#3	18	18	18
#4	24	24	24
#5	**34**	**34**	**34**
#6	**64**	**64**	**64**
#7	-	**87**	**87**
#8	-	-	-
#9	-	-	-
NOTE: TABLE DOES NOT APPLY TO EPOXY COATED BARS			

LEGEND:
VALUES IN BOLD BASED ON TMS 402/602, ALL OTHER VALUES BASED ON STANDARD PRACTICE FOR BRACING MASONARY WALLS UNDER CONSTRUCTION.

DESIGN CRITERIA:
f_y = 60,000 PSI
f'_m = 2,000 PSI

CMU WALL REINF LOCATION & LAP SPLICE

SCALE:1"=1'-0" | 15



* HOOK MUST SURROUND VERTICAL BAR, BUT MAY BE TILTED/ROTATED TO MAINTAIN REQ'D COVER.

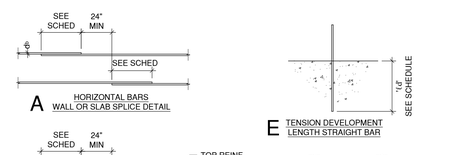
NOTES:
1. GROUT ALL CELLS OR CAVITIES SOLID.
2. AT CMU WALLS USE OPEN END BLOCK AT VERTICAL REINFORCING BARS.
3. REFER TO TYPICAL MASONRY WALL REINFORCING SCHEDULE.
4. AT DOUBLE CURTAIN REINFORCING STAGGER VERTICAL AND HORIZONTAL BARS. PLACE VERTICAL REBAR AS CLOSE TO MASONRY SURFACE AS THE MINIMUM CLEARANCES WILL PERMIT
5. LAP SPLICING AT BOTH INTERSECTING WALLS IS ACCEPTABLE.
6. SEE NCMA FOR OTHER ACCEPTABLE CORNER REINFORCING DETAIL OPTIONS.

TYPICAL MASONRY WALL DETAIL

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

TENSION DEVELOPMENT LENGTH SCHEDULE (ℓd, INCHES)												
BAR SIZE	f'c=3000 PSI		f'c=4000 PSI		f'c=5000 PSI		f'c=6000 PSI		f'c=7000 PSI		f'c=8000 PSI	
	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS
#3	22	17	19	15	17	13	15	12	14	12	13	12
#4	29	22	25	19	22	17	20	16	19	15	18	14
#5	36	28	31	24	28	22	25	20	24	18	22	17
#6	43	33	37	29	33	26	31	24	28	22	26	20
#7	63	48	54	42	49	37	44	34	41	32	38	30
#8	72	55	62	48	55	43	51	39	47	36	44	34
#9	81	62	70	54	63	48	57	44	53	41	49	38
#10	91	70	79	61	70	54	64	49	59	46	56	43
#11	101	78	87	67	78	60	71	55	66	51	62	48
#14	121	93	105	81	94	72	86	66	79	61	74	57
#18	161	124	139	107	125	96	114	88	106	81	99	76

BAR SPLICE LENGTH SCHEDULE (INCHES)												
BAR SIZE	f'c=3000 PSI		f'c=4000 PSI		f'c=5000 PSI		f'c=6000 PSI		f'c=7000 PSI		f'c=8000 PSI	
	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS
#3	28	22	24	19	22	17	20	16	18	16	17	16
#4	37	29	32	25	29	22	26	20	25	19	23	18
#5	47	36	40	31	36	28	33	25	31	24	29	22
#6	56	43	48	37	43	33	40	31	37	28	34	26
#7	81	63	70	54	63	49	58	44	53	41	50	38
#8	93	72	80	62	72	55	66	51	61	47	57	44
#9	105	81	91	70	81	63	74	57	69	53	64	49
#10	118	91	102	79	91	70	83	64	77	59	72	56
#11	131	101	113	87	101	78	93	71	86	66	80	62
#14	SEE NOTE #12											
#18	SEE NOTE #12											



STIRRUP & TIES MIN BEND DIAMETERS
D = 4d FOR #3 THRU #5
D = 6d FOR #6 THRU #8

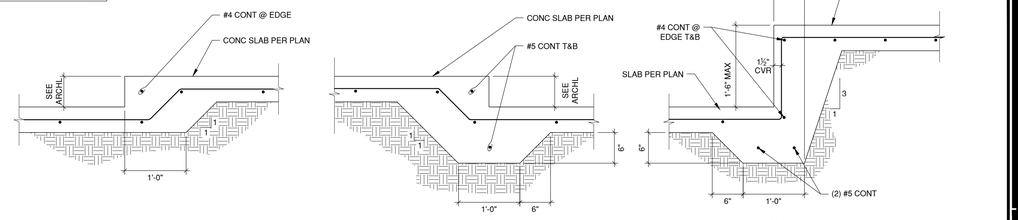
NOTE: 135° BENDS REQUIRED @ ROUND HOOP TIES SPLICES.

NOTES:
1. LAP SPLICES ARE SHOWN ON DWGS. WHERE NO LAP LENGTH IS SHOWN, USE THIS SCHEDULE.
2. BAR SPLICE SCHEDULE BASED ON CASE #1, LAP CLASS B. FOR WHERE LAP CLASS A IS CALLED OUT, DIVIDE THE BAR SPLICE TABLE VALUES BY 1.3.
3. C-C BARS MUST BE 3.0db MIN BY CODE = CASE 1
4. BAR COVER ON BMS & COLS 1½" + ½" = 2" > db = CASE 1 REQUIRED LAP LENGTH.
5. TABULATED VALUES ARE IN INCHES AND ARE BASED ON GRADE 60 REINFORCING (NOT COATED). NORMAL WEIGHT CONCRETE PER ACI 318-14. USE THESE VALUES ONLY WHERE LENGTHS ARE NOT INDICATED ON THE DWGS.
6. TOP BARS ARE HORIZONTAL BARS SO PLACED THAT MORE THAN 12" OF CONCRETE IS CAST IN THE MEMBER BELOW THE BAR.
7. INCREASE SCHEDULED LENGTHS BY 30% FOR LIGHTWEIGHT CONCRETE.
8. THE SMALLER BAR LAP LENGTH SHALL BE USED WHEN SPLICING DIFFERENT SIZE BARS.
9. THE CONTRACTOR, AT HIS OPTION, MAY USE A BUTT WELDED SPLICE, OR APPROVED MECHANICAL IN LIEU OF THE LAP SPLICE SHOWN--SEE TYPICAL WELDED SPLICE DETAIL.
10. ALL DETAILING AND PLACING OF REINFORCING SHALL COMPLY WITH THE PLANS AND DETAILS.
11. BUNDLED BAR SPLICES:
    A. INDIVIDUAL BAR SPLICES WITHIN THE BUNDLE SHALL NOT OVERLAP EACH OTHER.
    B. INCREASE LAP LENGTH 20% AT THREE BAR BUNDLES.
    C. INCREASE LAP LENGTH 33% AT FOUR BAR BUNDLES.
12. USE BUTT-WELDED SPLICE OR APPROVED MECHANICAL SPLICE FOR ALL #14 AND #18 BARS.

REGULAR WT CONC REINF DEVELOPMENT LENGTH & SPLICE LENGTH SCHED

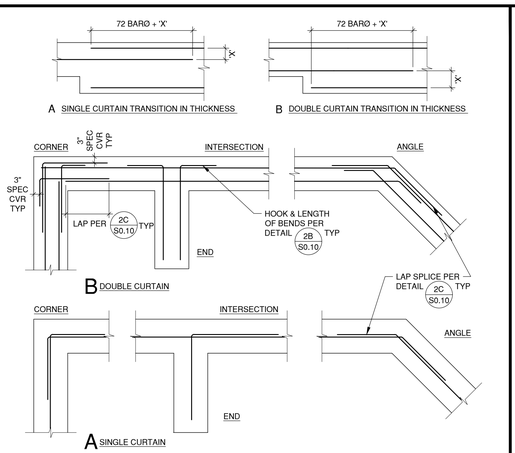
SCALE:1"=1'-0" | 12

NOTE:
SUBGRADE MATERIAL IS PER SEE GEOTECH REPORT FOR SPECIAL SPLAB REQUIREMENTS (5 / S0.20)



SLAB STEP DETAIL

SCALE:1"=1'-0" | 1



REINF AT FOOTING INTERSECTIONS

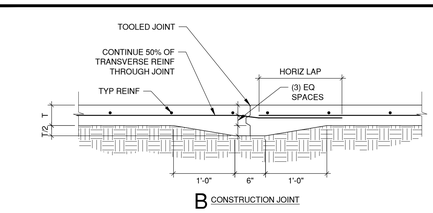
SCALE:1"=1'-0" | 6

CHEMICAL ANCHOR SCHEDULE					
BAR SIZE	ROD DIAMETER	DRILL BIT DIAMETER	MIN EMBEDMENT	MIN EDGE DISTANCE	MIN SPACING
	X 25.4 FOR mm				
#3	⅜" Ø	½"	4"	3½"	7"
#4	½" Ø	⅝"	6"	4"	8½"
#5	⅝" Ø	¾"	8"	5"	10"
#6	¾" Ø	⅞"	10"	7"	13½"
#7	⅞" Ø	1"	12"	8"	15½"
#8	1" Ø	1⅛"	14"	9"	18"
#9	1⅛" Ø	1⅜"	16"	11"	22½"

NOTES:
1. UNLESS NOTED ON THE DRAWINGS, DRILL AND EPOXY ANCHORS MAY NOT REPLACE CAST-IN-PLACE ANCHORS WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER.
2. ALL WORK SHALL BE PERFORMED UNDER CONTINUOUS INSPECTION BY THE INSPECTOR OF RECORD.
3. EPOXY GROUT: SIMPSON 'SET-XP' (ICC-ES ESR-2508, LARR-25744) OR APPROVED EQUAL.
4. PROVIDE HOLE DEPTH AND DIAMETER PER SCHEDULE UNLESS NOTED OTHERWISE ON PLANS.
   A. AVOID ANY EXISTING REINFORCING STEEL - RECOMMEND CONTRACTOR ALLOW FOR 5% RE-DRILLING. ALL ABANDONED HOLES SHALL BE GROUTED.
   B. WHEN INSTALLING CHEMICAL ANCHOR INTO PRE-STRESSED CONCRETE WITH PRE- OR POST-TENSIONED TENDONS, LOCATE TENDONS BY NON-DESTRUCTIVE METHODS PRIOR TO CHEMICAL ANCHOR INSTALLATION. TAKE GREAT CARE AND CAUTION TO AVOID DAMAGING EXISTING TENDONS AND PROVIDE A MINIMUM OF 2 INCHES CLEAR BETWEEN DRILLED HOLE AND EXISTING TENDONS. ANY COSTS TO REPAIR OR REPLACE TENDONS SHALL BE BORNE BY THE CONTRACTOR.
5. CLEAN HOLE PER MANUFACTURER'S SPECIFICATIONS BY VACUUM OR AIR PRESSURE. HOLE TO BE DRY PRIOR TO EPOXY APPLICATION.
6. PLACE EPOXY PER MANUFACTURER'S SPECIFICATIONS, WITH CAULKING GUN OR SIMILAR, FILLING HOLE FROM THE BOTTOM TO APPROXIMATELY 2/3 FULL.
7. PLACE ROD OR REBAR, ENSURING EPOXY RISES TO THE SURFACE AND FILLS THE HOLE COMPLETELY. PROVIDE SUPPORT FOR ROD OR REBAR UNTIL EPOXY CURES.

TYP REINF DRILL & EPOXY DETAIL

SCALE:1"=1'-0" | 7

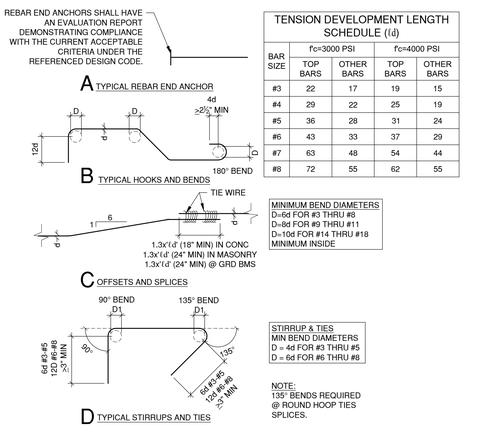


SLAB JOINTS

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

REBAR END ANCHORS SHALL HAVE AN EVALUATION REPORT DEMONSTRATING COMPLIANCE WITH THE CURRENT ACCEPTABLE CRITERIA UNDER THE REFERENCED DESIGN CODE.

TENSION DEVELOPMENT LENGTH SCHEDULE (ℓd)				
BAR SIZE	f'c=3000 PSI		f'c=4000 PSI	
	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS
#3	22	17	19	15
#4	29	22	25	19
#5	36	28	31	24
#6	43	33	37	29
#7	63	48	54	44
#8	72	55	62	55



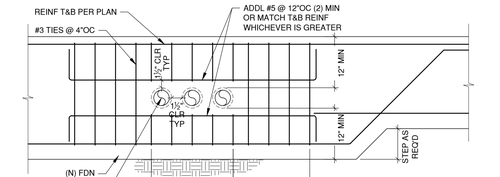
MINIMUM BEND DIAMETERS
D=6d FOR #3 THRU #8
D=8d FOR #9 THRU #11
D=10d FOR #14 THRU #18
MINIMUM INSIDE

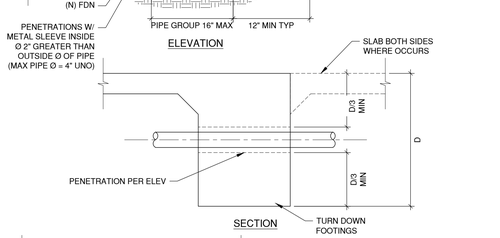
STIRRUP & TIES MIN BEND DIAMETERS
D = 4d FOR #3 THRU #5
D = 6d FOR #6 THRU #8

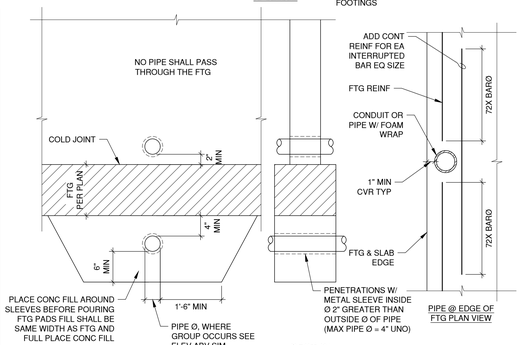
NOTE:
135° BENDS REQUIRED @ ROUND HOOP TIES SPLICES.

REINFORCING DETAIL

SCALE:1"=1'-0" | 2







TYP PIPE THRU FTG DETAIL

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

AGENCY

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122536 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/24/2023

FLEWELLING & MOODY
architecture planning interiors

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An Employee Owned Corporation

ENGINEER

REGISTERED PROFESSIONAL ENGINEER SCOTT LUKE GREENE NO. 72053 STRUCTURAL STATE OF CALIFORNIA

LICENSED ARCHITECT C-26053 Ren. Date 08/31/2023 STATE OF CALIFORNIA

CONSULTANT

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P: 805.522.3379
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info@rgseinc.com

Drawn by

Checked by

Revisions

No.	Date	Description

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared for a specific site. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Flewelling & Moody.

SOUTHERN KERN UNIFIED SCHOOL DISTRICT
ROSAMOND HIGH SCHOOL

CAFETERIA BUILDING

2925 ROSAMOND BLVD.
ROSAMOND, CA 93560

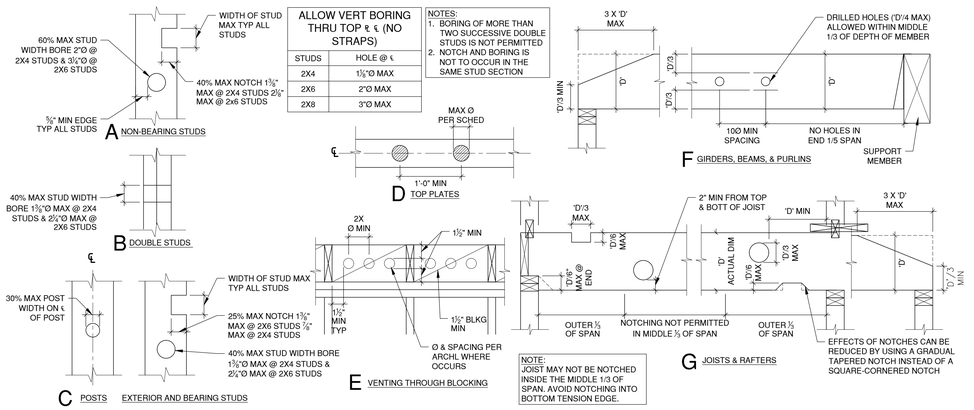
TYPICAL DETAILS

Job No.
22005

Date
06-07-22

S0.10

3/7/2023 9:38:44 AM

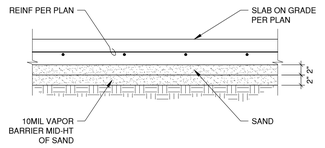


ALLOW VERT BORING THRU TOP ℄ ℄ (NO STRAPS)	
STUDS	HOLE @ ℄
2X4	1⅜"Ø MAX
2X6	2"Ø MAX
2X8	3"Ø MAX

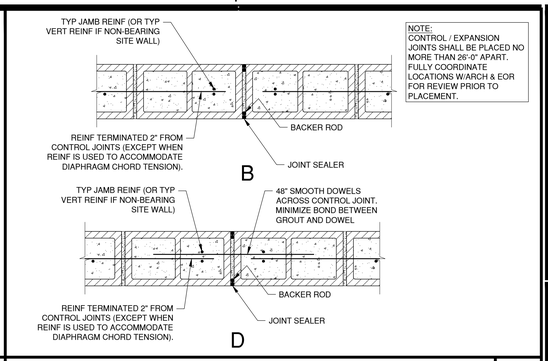
NOTES:
1. BORING OF MORE THAN TWO SUCCESSIVE DOUBLE STUDS IS NOT PERMITTED
2. NOTCH AND BORING IS NOT TO OCCUR IN THE SAME STUD SECTION

NOTE:
JOIST MAY NOT BE NOTCHED INSIDE THE MIDDLE 1/3 OF SPAN. AVOID NOTCHING INTO BOTTOM TENSION EDGE.

ALLOWABLE NOTCHING & HOLES — SCALE:1"=1'-0" — 9

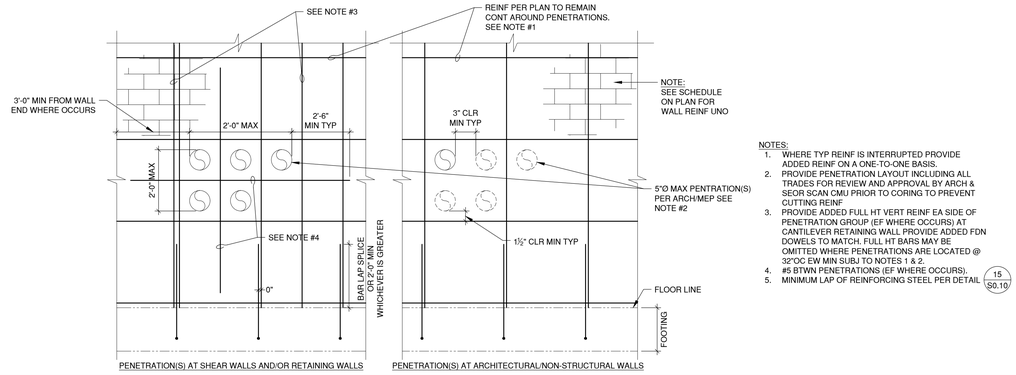


TYPICAL SLAB ON GRADE — SCALE:1"=1'-0" — 5



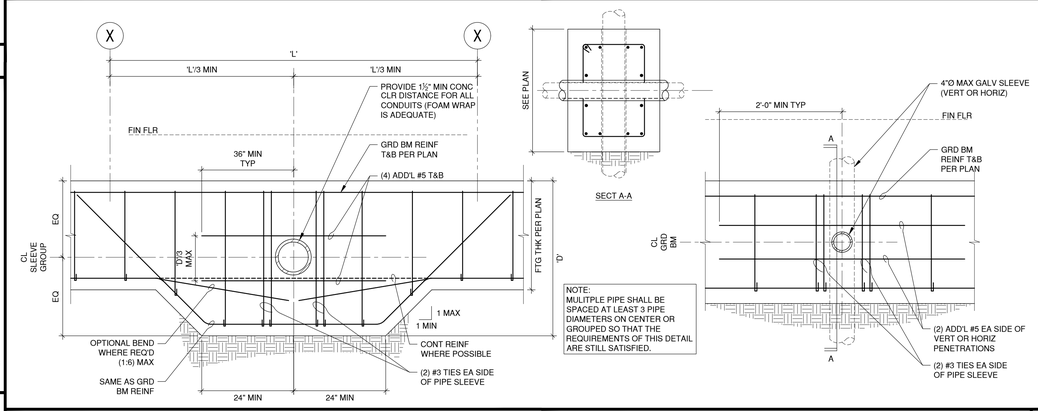
NOTE:
CONTROL / EXPANSION JOINTS SHALL BE PLACED NO MORE THAN 26'-0" APART. FULLY COORDINATE LOCATIONS W/ARCH & EOR FOR REVIEW PRIOR TO PLACEMENT.

CMU CONTROL/EXPANSION JOINT DETAILS — SCALE:1"=1'-0" — 1

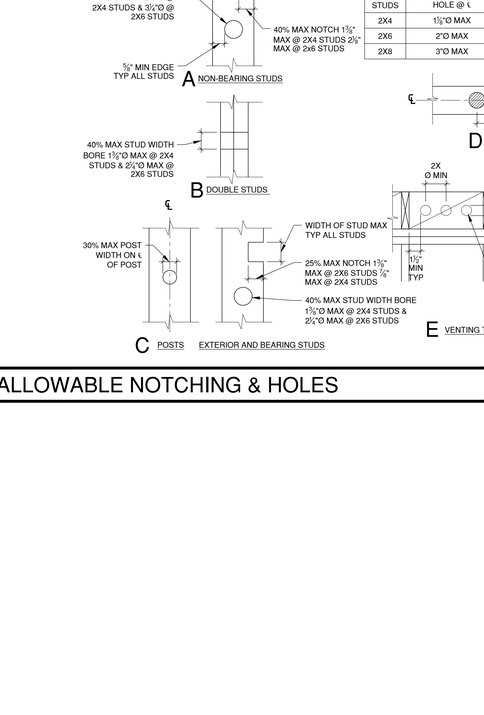


NOTES:
1. WHERE TYP REINF IS INTERRUPTED PROVIDE ADDED REINF ON A ONE-TO-ONE BASIS.
2. PROVIDE PENETRATION LAYOUT INCLUDING ALL TRADES FOR REVIEW AND APPROVAL BY ARCH & SEOR SCAN CMU PRIOR TO CORING TO PREVENT CUTTING REINF
3. PROVIDE ADDED FULL HT VERT REINF EA SIDE OF PENETRATION GROUP (EF WHERE OCCURS) AT CANTILEVER RETAINING WALL PROVIDE ADDED FDN DOWELS TO MATCH. FULL HT BARS MAY BE OMITTED WHERE PENETRATIONS ARE LOCATED @ 32"OC EW MIN SUBJ TO NOTES 1 & 2.
4. #5 BTWN PENETRATIONS (EF WHERE OCCURS).
5. MINIMUM LAP OF REINFORCING STEEL PER DETAIL 15/S0.10

TYPICAL CMU WALL DETAIL WITH PENETRATIONS — SCALE:1"=1'-0" — 2



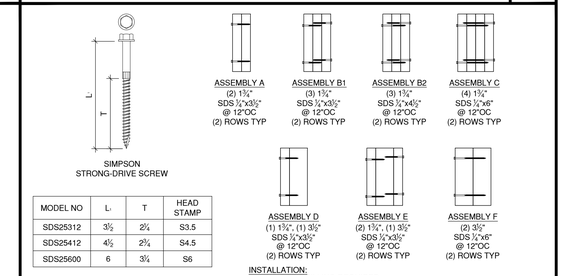
PENETRATIONS AT GRADE BM — SCALE:1"=1'-0" — 3



LEGEND:

BN	=	BOUDARY NAILING
EN	=	EDGE NAILING
SN	=	SOLE PL NAILING
HD	=	HOLDOWN
SW	=	SHEARWALL
▽	=	INDICATES SHEARWALL PER SCHED

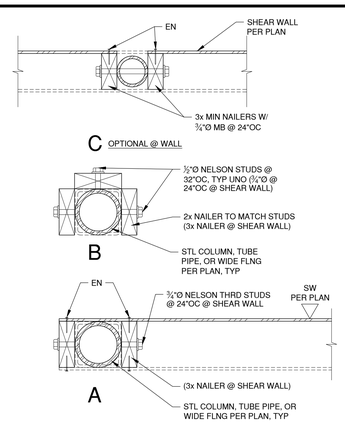
TYP SW INTERSECTIONS (W/ HOLDOWNS) — SCALE:1"=1'-0" — 16



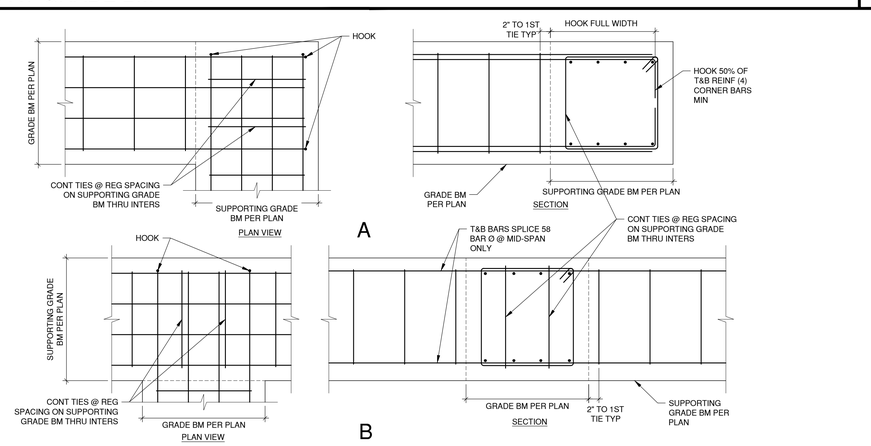
MODEL NO	L	T	HEAD STAMP
SDS25312	3½	2¼	S3.5
SDS25412	4½	2¼	S4.5
SDS25600	6	3¼	S6

INSTALLATION:
- NO PRE-DRILLING REQUIRED.
- SEE ILLUSTRATIONS FOR SDS POSITIONING ON DIFFERENT ASSEMBLIES
- INSTALL WITH HIGH-TORQUE, LOW-SPEED DRILL (5 AMP+).
- DO NOT OVER-DRIVE THE SDS SCREWS.

ENG WD & STRUCT COMPOSITE LUMBER CONN — SCALE:1"=1'-0" — 11



COLUMN NAILER — SCALE:1"=1'-0" — 12



GRADE BEAM INTERSECTIONS — SCALE:1"=1'-0" — 4

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architecture planning interiors

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REGISTERED PROFESSIONAL ENGINEER JASON SCOTT LUNDY No. STRUCTURAL STATE OF CALIFORNIA

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CONSULTANT

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No.	Date	Description

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT
ROSAMOND HIGH SCHOOL

CAFETERIA BUILDING

2925 ROSAMOND BLVD.
ROSAMOND, CA 93560

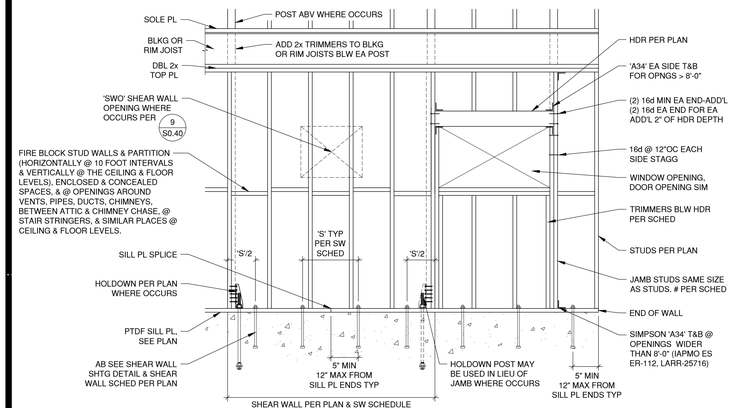
TYPICAL DETAILS

Job No. 22005

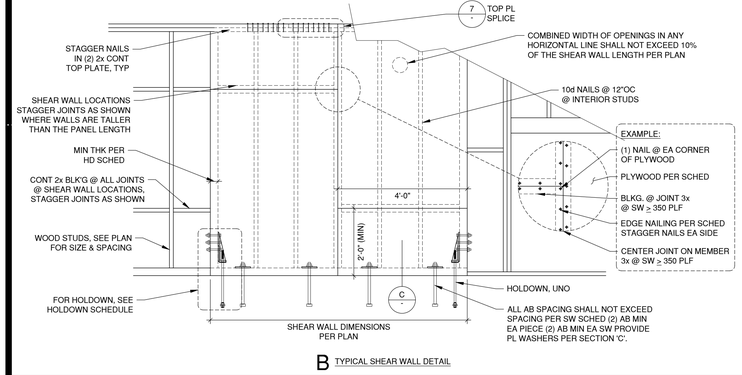
Date 06-07-22

S0.20

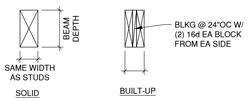
3/7/2023 9:38:44 AM



A TYPICAL WOOD STUD WALL



B TYPICAL SHEAR WALL DETAIL

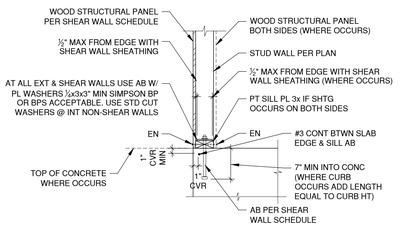


HEADER SCHEDULE			
MAX OPENING WIDTH	HEADER DEPTH		JAMBS
	BEARING UNO	NON-BEARING	COUNT EA END
4'-0"	4	4	1
6'-0"	8	6	2
8'-0"	10	8	3
10'-0"	12	10	4
12'-0"	14	12	5

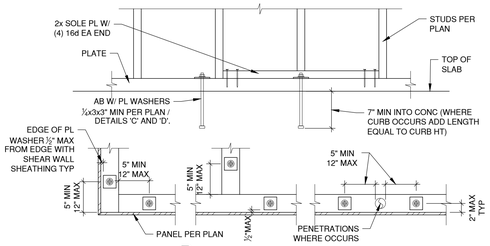
TRIMMER SCHEDULE	
HEADER DEPTH	TRIMMERS EA END UNDER HDR
0" TO < 9"	(1) 2x STUD
9" TO < 12"	(2) 2x STUDS
≥ 12" OR GLB	4x POST UNO

SHEARWALL NOTES:

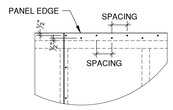
1. OSB SHALL BE 15/32" THICK & CONFORM TO U.S. PRODUCT STANDARD PS 1-95 C-D STRUCTURAL 1 OR U.S. PRODUCT STANDARD PS 1-95 APA STRUCTURAL 1 EXP. 1, WITH EXTERIOR GLUE, U.N.O.
2. ALL NAILS SHALL BE COMMON WIRE NAILS. SEE SHEARWALL SCHEDULE
3. NAILS SHALL BE STAGGERED WHERE NAILS ARE SPACED 3" INCHES OR LESS ON CENTER AT PLYWOOD JOINTS.
4. INDIVIDUAL PIECES OF PLYWOOD SHALL BE NOT LESS THAN 2'-0"X4'-0" IN LEAST DIMENSION NOR 8 SQ. FT. IN AREA.
5. PRE-BORE HOLES FOR NAILS WHERE MEMBERS TEND TO SPLIT.
6. RE-TIGHTEN SILL BOLTS NUTS BEFORE CLOSING IN.
7. PROVIDE FURRING OR BACKING OF THICKNESS AS REQUIRED TO MAINTAIN A COMMON WALL PLANE ALL WOOD STUD WALL SURFACE WHICH ARE ONLY PARTIALLY SHEATHED WITH STRUCTURAL PLYWOOD. COORDINATE AND ADJUST HEAD, JAMB AND SILL AS REQUIRED FOR PROPER OVERALL WALL THICKNESS.
8. PLYWOOD SHEETS MAY BE APPLIED VERTICALLY OR HORIZONTALLY AT CONTRACTORS OPTION. PLYWOOD JOINTS SHALL BE STAGGERED.
9. MACHINE APPLIED NAILING:
   USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOBSITE DEMONSTRATION FOR EACH PROJECT AND THE APPROVAL BY THE ARCHITECT OR STRUCTURAL ENGINEER. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE. MACHINE NAILING WILL NOT BE APPROVED IF 3/4" PLYWOOD, IF FLATHEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAMMER OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED, THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY.
10. NAILS SHALL BE PLACED NOT LESS THAN 1/2" IN FROM THE PANEL EDGES AND NOT LESS THAN 3/8" FROM THE EDGE OF THE CONNECTING MEMBERS FOR SHEAR GREATER THAN 350 PLF. NAILS SHALL BE PLACED NOT LESS THAN 3/8" FROM PANEL EDGES AND NOT LESS THAN 1/4" FROM THE EDGE OF THE CONNECTING MEMBERS FOR SHEARS OF 350 PLF OR LESS.
11. PROVIDE 1/8" GAP BETWEEN OSB SHEETS.
12. SHEATH ENTIRE WALL INCLUDING ABOVE AND BELOW OPENING TO AVOID LETTING IN OF OSB SHEATHING WITH SAME NAILING AS SHOWN IN SCHEDULE.
13. SHEAR WALLS MORE THAN ONE VERTICAL PANEL IN HEIGHT SHALL HAVE EITHER VERTICAL OR HORIZONTAL STAGGERED SPLICED JOINTS.
14. WHERE PANEL SHEAR CAPACITY > 350#, NAILS AT PANEL JOINTS AND SILL PLATES SHALL BE STAGGERED.
15. ALL WOOD POSTS AND NAILER TO STEEL COLUMNS SHALL RECEIVE EDGE NAILING.
16. MINIMUM LAG SCREW PENETRATION SHALL BE 8D.
17. MAXIMUM ACCUMULATED LENGTH OF PENETRATIONS NOT SHOWN ON PLANS SHALL NOT EXCEED 10% OF THE WALL LENGTH. MAXIMUM LENGTH OF EACH PENETRATION SHALL NOT EXCEED 4½" IN ANY DIRECTION (DO NOT OVER CUT). NO PENETRATIONS PERMITTED WITHIN 16" OF HOLDOWNS.
18. THE HOLE IN THE PLATE WASHER SHALL BE PERMITTED TO BE DIAGONALLY SLOTTED WITH A WIDTH OF UP TO 3/16" LARGER THAN THE BOLT DIAMETER AND SLOT LENGTH NOT TO EXCEED 1¾", PROVIDED A STANDARD CUT WASHER IS PLACED BETWEEN THE PLATE WASHER AND THE NUT.
19. WHERE PANELS ARE APPLIED ON BOTH FACES OF A WALL AND NAIL SPACING IS LESS THAN 6 INCHES ON CENTER ON EITHER SIDE, PANEL JOINTS SHALL BE OFFSET TO FALL ON DIFFERENT FRAMING MEMBERS OR FRAMING SHALL BE 3-INCH NOMINAL OR THICKER AND NAILS ON EACH SIDE SHALL BE STAGGERED.



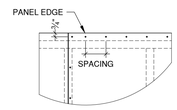
C SILL PLATE CONNECTION TO CONCRETE



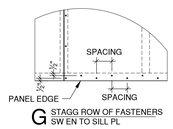
D TYPICAL PLATE ANCHOR BOLTS



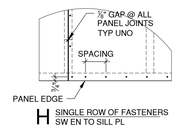
E STAGG ROW OF FASTENERS SW EN TO TOP PL



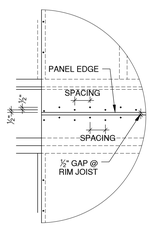
F SINGLE ROW OF FASTENERS SW EN TO TOP PL



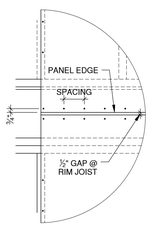
G STAGG ROW OF FASTENERS SW EN TO SILL PL



H SINGLE ROW OF FASTENERS SW EN TO SILL PL



J STAGG ROW OF FASTENERS SW EN TO RIM JOIST

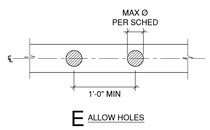


K SINGLE ROW OF FASTENERS SW EN TO RIM JOIST

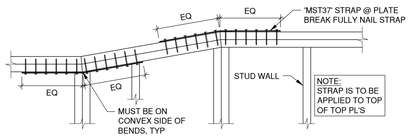
TYPICAL STUD WALL DETAILS

SCALE:1"=1'-0" 2

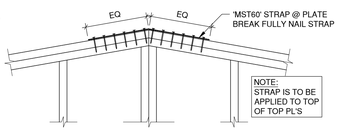
ALLOW VERT BORING THRU TOP PL ℄ (NO STRAPS)	
STUDS	HOLE @ ℄
2x6	2"Ø MAX
2x8	3"Ø MAX

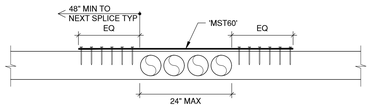


E ALLOW HOLES

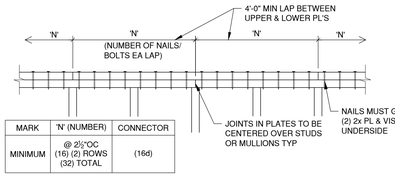


D BENT PL SPLICE



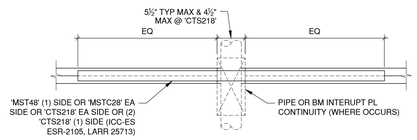


C PIPE GROUPS THRU ℄



MARK	'N' (NUMBER)	CONNECTOR
MINIMUM	@ 2½"OC (16) (2) ROWS (32) TOTAL	(16d)

A NAILED SPLICE



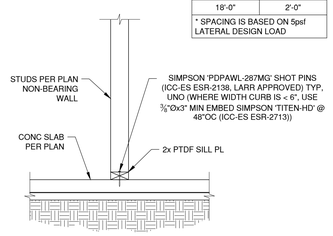
B STRAP SPLICE

TOP PLATE SPLICE (4.2K ALLOW)

SCALE:1"=1'-0" 7

MAX WALL HEIGHT	SHOT PIN SPACING*
14'-0"	4'-0"
16'-0"	3'-0"
18'-0"	2'-0"

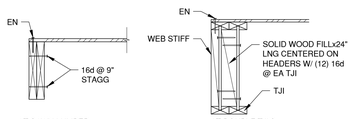
* SPACING IS BASED ON 5psf LATERAL DESIGN LOAD



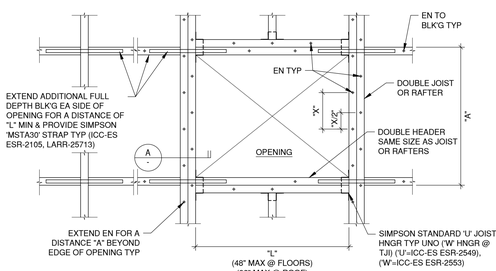
PARTITION WALL

SCALE:1"=1'-0" 16

NUMBER OF JOISTS CUT	TOTAL NUMBER OF ADDITIONAL JOISTS, HALF EA SIDE OF OPNG
1	2
2	2
3	4
4	4

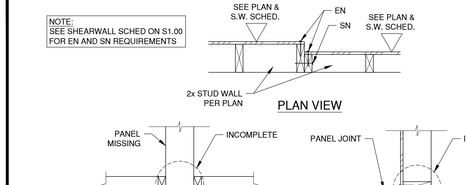


A SECTION

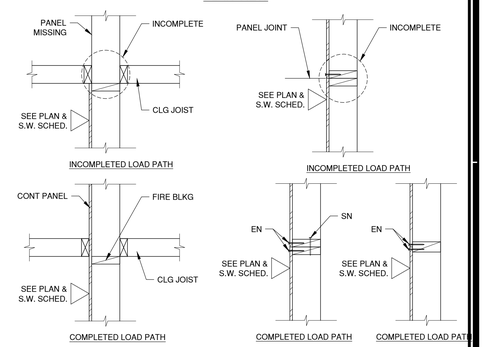


TYP FLR OR ROOF OPENING PLAN

SCALE:1"=1'-0" 8

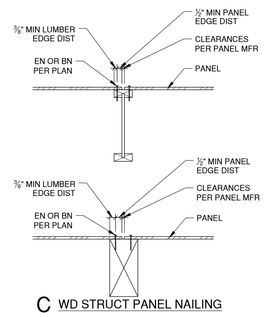


PLAN VIEW

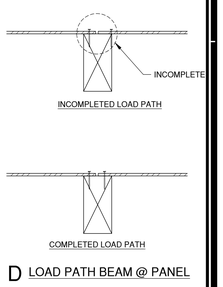


A LOAD PATH INTERIOR WALL W/CJ

B LOAD PATH @ PANEL JOINT



C WD STRUCT PANEL NAILING



D LOAD PATH BEAM @ PANEL

SHEAR TRANSFER DETAIL

SCALE:1"=1'-0" 4

AGENCY

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122536 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/24/2023

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architecture planning interiors

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An Employee Owned Corporation

ENGINEER

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LICENSED ARCHITECT C-26053 Ren. Date 08/31/2023 STATE OF CALIFORNIA

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Drawn by

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Revisions

No.	Date	Description

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared for a specific site. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Flewelling & Moody.

SOUTHERN KERN UNIFIED SCHOOL DISTRICT
ROSAMOND HIGH SCHOOL
CAFETERIA BUILDING
2925 ROSAMOND BLVD.
ROSAMOND, CA 93560

TYPICAL DETAILS

Job No. 22005

Date 06-07-22

S0.30

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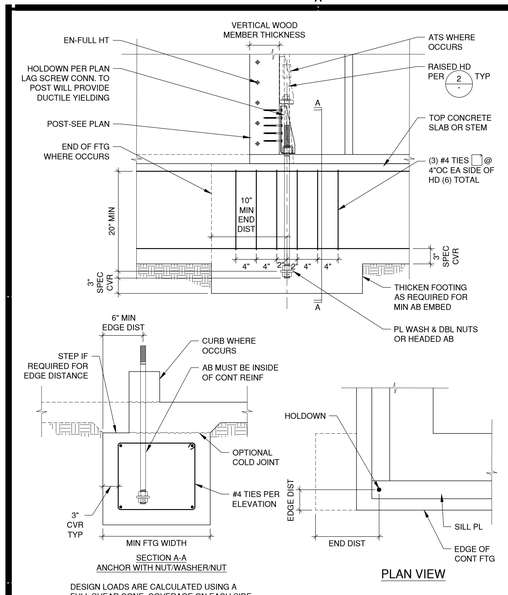


SECTION A-A
ANCHOR WITH NUT/WASHER/NUT

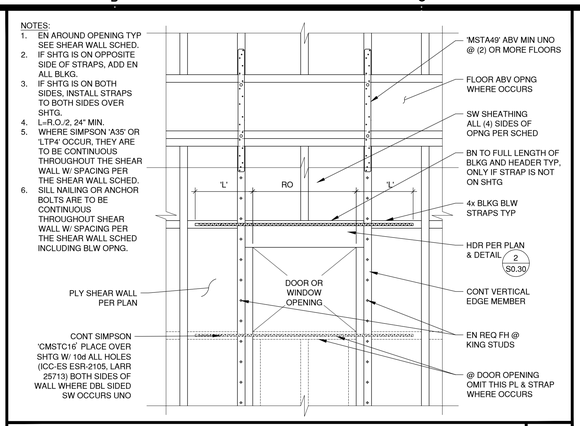
DESIGN LOADS ARE CALCULATED USING A FULL SHEAR CONE. COVERAGE ON EACH SIDE OF THE BOLT SHALL BE A MINIMUM OF F OR REDUCTIONS MUST BE TAKEN.

1. ANCHOR EMBEDMENT LENGTH IS BASED ON A SINGLE POUR CONCRETE FOUNDATION WITHIN THE FOOTING DIMENSIONS de. DOUBLE POUR FOUNDATION SYSTEMS, MASONRY WALLS AND MASONRY FOOTINGS MUST BE EVALUATED BY THE DESIGNER.
2. ANCHOR BOLT MUST BE ASTM A307 OR A36 STEEL.
3. ANCHOR HEAD REQUIRED TWO HEX NUTS WITH A 3x3x$\frac{3}{16}$" PLATE AT TYPE 'G' HD. USE OF SIMPSON STRONG-TIE BEARING PLATE BP1 MAY BE USED AS A SUBSTITUTE FOR 1" DIAMETER BOLTS AND SIMPSON STRONG-TIE BEARING PLATE BP$\frac{3}{4}$ MAY BE USED AS A SUBSTITUTE PLATE FOR $\frac{3}{4}$" DIAMETER BOLTS.
4. AT ATS LOCATIONS, ANCHOR BOLT DIAMETER & GRADE TO MATCH ATS DIAMETER & GRADE.
5. DESIGN VALUES ARE BASED ON ACI 318-14 CH. 17. SEISMIC LOADS DUCTILITY REQUIREMENTS PER D.3.3.4 ARE CONSIDERED.
6. FOR HOLDOWNS, PER ASTM TEST STANDARDS, ANCHOR BOLT NUT SHOULD BE FINGER-TIGHT PLUS $\frac{1}{3}$ TO $\frac{1}{2}$ TURN WITH A HAND WRENCH, WITH CONSIDERATION GIVEN TO POSSIBLE FUTURE WOOD SHRINKAGE. CARE SHOULD BE TAKEN TO NOT OVER-TORQUE THE NUT. IMPACT WRENCHES SHOULD NOT BE USED.
7. TENSION VALUES ARE VALID FOR HOLDOWNS FLUSH OR RAISED OFF SILL PLATE.
8. REQUIRES HEAVY HEX ANCHOR NUT TO ACHIEVE TABULATED LOADS (SUPPLIED WITH HOLDOWN).

HD OR ATS ANCHOR DETAIL (30K ALLOW)

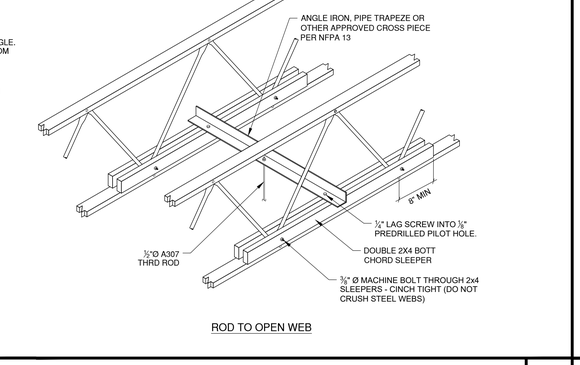
SCALE:1"=1'-0" | 14

NOTES:
1. EN AROUND OPENING TYP SEE SHEAR WALL SCHED.
2. IF SHTG IS ON OPPOSITE SIDE OF STRAPS, ADD EN ALL BLKG.
3. IF SHTG IS ON BOTH SIDES, INSTALL STRAPS TO BOTH SIDES OVER SHTG.
4. L=R.O./2, 24" MIN.
5. WHERE SIMPSON 'A35' OR 'LTP4' OCCUR, THEY ARE TO BE CONTINUOUS THROUGHOUT THE SHEAR WALL W/ SPACING PER THE SHEAR WALL SCHED.
6. SILL NAILING OR ANCHOR BOLTS ARE TO BE CONTINUOUS THROUGHOUT SHEAR WALL W/ SPACING PER THE SHEAR WALL SCHED INCLUDING BLW OPNG.



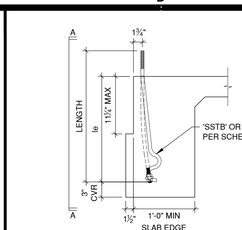
TYP FRMG AT SW OPENING (SWO)

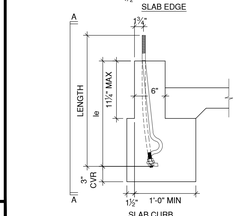
SCALE:1"=1'-0" | 9

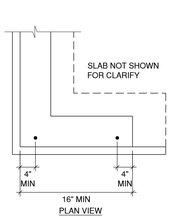


FLOOR & ROOF SHTG DETAIL

SCALE:1"=1'-0" | 10







CORNER INSTALLATION (INSTALL WITH ARROW ON TOP OF THE BOLT ORIENTED AS SHOWN)	NON-CORNER INSTALLATION (BOLT MAY BE INSTALLED @ 45° TO 135° AS SHOWN)	CORNER INSTALLATION (INSTALL WITH ARROW ON TOP OF THE BOLT ORIENTED AS SHOWN)
45° ANCHOR BOLT (TYP) 0° OUTER EDGE OF CONCRETE (TYP)	135°/90°/45° 45° 45° 0°	135° 0°

FOR TWO-POUR (4" SLAB) INSTALLATION LOADS:

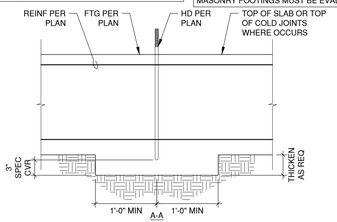
- WHEN USING THE SSTB20, USE THE EQUIVALENT LOADS OF THE SSTB16.
- WHEN USING THE SSTB24, USE THE EQUIVALENT LOADS OF THE SSTB20.
- WHEN USING THE SSTB34 OR 36, USE THE EQUIVALENT LOADS OF THE SSTB28.

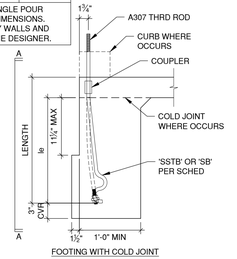
PLAN VIEW OF SSTB & SB PLACEMENT IN CONCRETE

REFER TO HOLDOWN SCHEDULE FOR ANCHOR BOLT DESIGNATION

MODEL NO	DIMENSIONS (in.) DIA	LENGTH	MIN EMB le	CODE REF
SSTB16	$\frac{5}{8}$	16$\frac{5}{8}$	12$\frac{5}{8}$	ESR-2611
SSTB20	$\frac{5}{8}$	24$\frac{5}{8}$	16$\frac{5}{8}$	ESR-2611
SSTB24	$\frac{5}{8}$	25$\frac{5}{8}$	20$\frac{5}{8}$	ESR-2611
SSTB28	$\frac{7}{8}$	32$\frac{5}{8}$	24$\frac{5}{8}$	ESR-2611
SB$\frac{5}{8}$x24	$\frac{5}{8}$	24	18	ESR-2611
SB$\frac{7}{8}$x24	$\frac{7}{8}$	24	18	ESR-2611
SB1x30	1	30	24	ESR-2611

ANCHOR EMBEDMENT LENGTH IS BASED ON A SINGLE POUR CONCRETE FOUNDATION WITHIN THE FOOTING DIMENSIONS. DOUBLE POUR FOUNDATION SYSTEMS, MASONRY WALLS AND MASONRY FOOTINGS MUST BE EVALUATED BY THE DESIGNER.





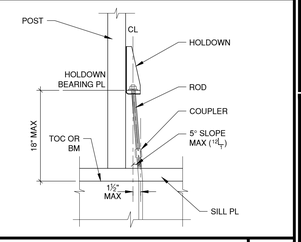
SSTB & SB BOLTS AT SLAB ON GRADE

SCALE:1"=1'-0" | 1

FOUNDATIONS - MANDATORY MINIMUM FORMWORK (UNLESS FULLY FORMED)

TO ENSURE UNIFORMITY IN BIDDING, THE FOLLOWING PERMISSIVE PROCEDURE SHOULD BE NOTED IN THE SPECIFICATIONS, IMMEDIATELY FOLLOWING THE SECTION ON FORMWORK. THE SKETCH SHOULD BE SHOWN ON THE DRAWINGS.

"FOUNDATION CONCRETE MAY BE PLACED DIRECTLY INTO NEAT EXCAVATIONS PROVIDED THE FOUNDATION TRENCH WALLS ARE STABLE AS DETERMINED BY THE ARCHITECT (STRUCTURAL ENGINEER), SUBJECT TO THE APPROVAL OF THE OFFICE OF THE STATE ARCHITECT. IN SUCH CASE, THE MINIMUM FORMWORK SHOWN ON THE DRAWINGS IS MANDATORY TO ENSURE CLEAN EXCAVATIONS IMMEDIATELY PRIOR TO AND DURING THE PLACING OF CONCRETE."

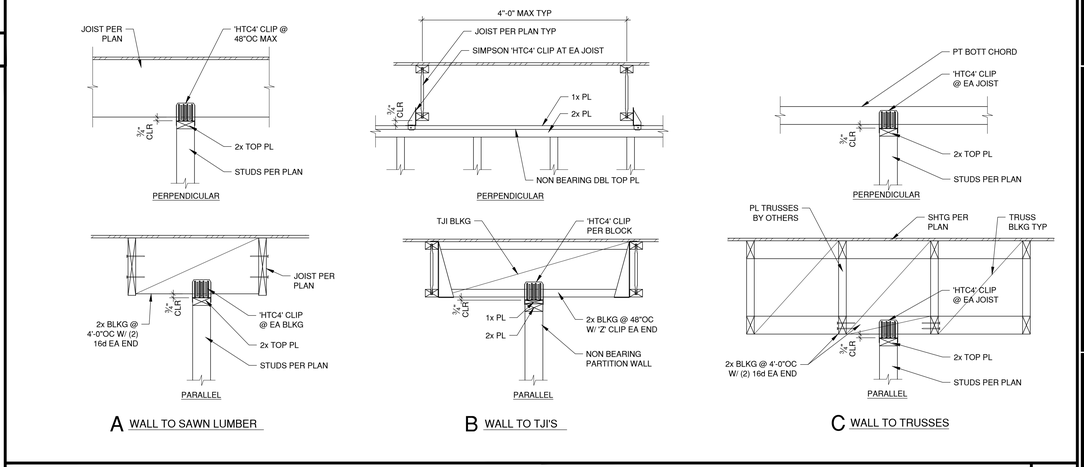


HOLDOWN RAISED OFF SILL PLATE

SCALE:1"=1'-0" | 2

DSA STARTER WALL DETAIL

SCALE:1"=1'-0" | 6



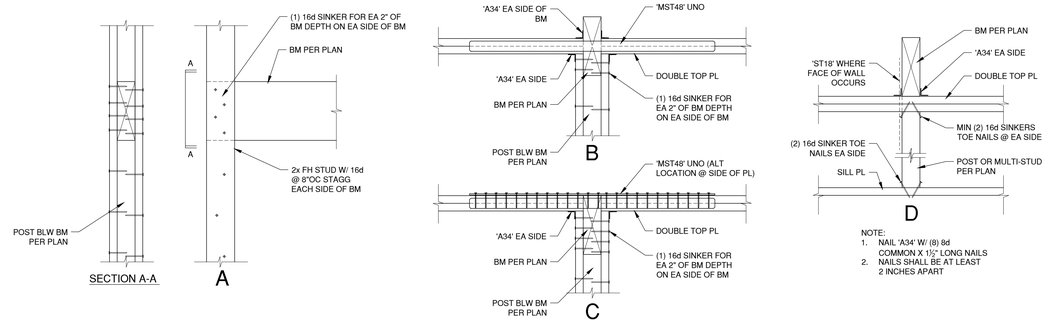
A WALL TO SAWN LUMBER

B WALL TO TJI'S

C WALL TO TRUSSES

PARTITION BRACING

SCALE:1"=1'-0" | 3

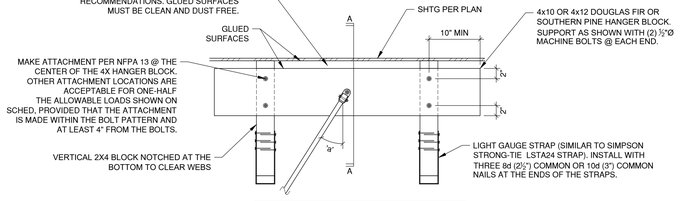


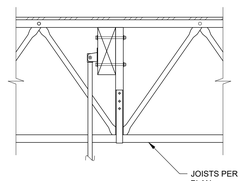
NOTE:
1. NAIL 'A34' W/ (8) 8d COMMON X 1½" LONG NAILS
2. NAILS SHALL BE AT LEAST 2 INCHES APART

BEAM POCKET

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

FLAT BLOCK. GLUE TOP AND BOTT SURFACES WITH (4) ¼" BEADS OF APPROVED ELASTOMERIC FLOOR ADHESIVE. FOLLOW MANUFACTURER'S RECOMMENDATIONS. GLUED SURFACES MUST BE CLEAN AND DUST FREE.



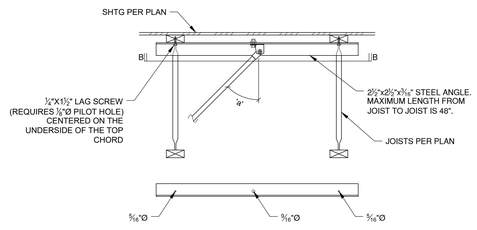


SECTION A-A

ALLOWABLE HORIZONTAL SEISMIC FORCES (lbs)		
ANGLE TO VERTICAL 'a'		
30°	45°	60°
800	1400	1400

- THE LOADS IN THE TABLE ARE BASED ON THE CONTROLLING CONNECTION TO THE TRUSS.
- THE CAPACITY OF THE BRACE FASTENER TO THE WOOD BLOCK MAY LIMIT THE CAPACITY OF THE DETAIL (SEE NFPA 13).
- THE FORCES INCLUDE A 1.33 DURATION FACTOR ADJUSTMENT.

FOR FORCES PERPENDICULAR TO OPEN-WEB TRUSSES



SECTION B-B

ALLOWABLE HORIZONTAL SEISMIC FORCES (lbs)		
ANGLE TO VERTICAL 'a'		
30°	45°	60°
190	240	240

- THE LOADS IN THE TABLE ARE BASED ON THE CONTROLLING CONNECTION TO THE TRUSS.
- THE FORCES INCLUDE A 1.33 DURATION FACTOR ADJUSTMENT.

FOR FORCES PARALLEL OR PERPENDICULAR TO OPEN-WEB TRUSSES

ROD TO OPEN WEB

OPEN-WEB TRUSS SEISMIC FORCE DETAILS

SCALE:1"=1'-0" | 12

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Lancaster, California 93534
P 661.949.0771
E-Mail: fm-lancaster@flewelling-moody.com

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ENGINEER

REGISTERED PROFESSIONAL ENGINEER ROBERT SCOTT LUNDE No. STRUCTURAL STATE OF CALIFORNIA

LICENSED ARCHITECT C-26053 Ren. Date 08/31/2023 STATE OF CALIFORNIA

CONSULTANT

RGSE inc.
Structural Engineers
2720 Cochran St. Suite 8B
Simi Valley, CA 93065
P: 805.522.3379
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Revisions

No.	Date	Description

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT
ROSAMOND HIGH SCHOOL

CAFETERIA BUILDING

2925 ROSAMOND BLVD.
ROSAMOND, CA 93560

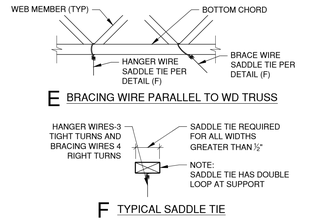
TYPICAL DETAILS

Job No.
22005

Date
06-07-22

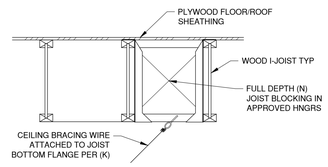
S0.40

3/7/2023 9:38:46 AM

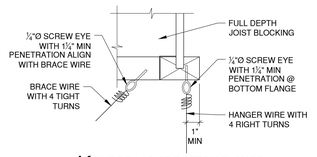


E BRACING WIRE PARALLEL TO WD TRUSS

F TYPICAL SADDLE TIE



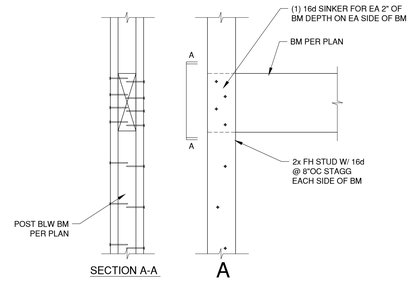
J WOOD I-JOIST



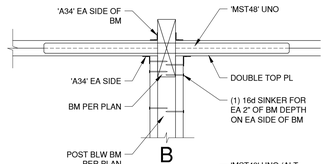
K WOOD I-JOIST BOTTOM FLANGE

NOTE:
1. DO NOT INSERT SCREW EYES PARALLEL TO LAMINATIONS.
2. WHEN FIRE RATED GYP BOARD IS INSTALLED ON THE BOTTOM FLANGES, USE SCREW EYES W/ SUFFICIENT LENGTH TO AVOID DAMAGING THE FIRE RATED GYP BOARD.

WIRE CONN TO WOOD FRAMING SCALE:1"=1'-0" 6



SECTION A-A A



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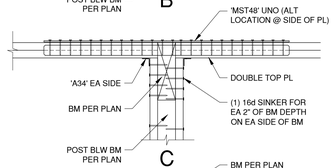

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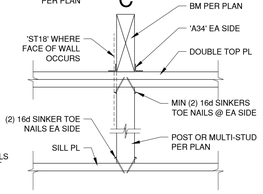
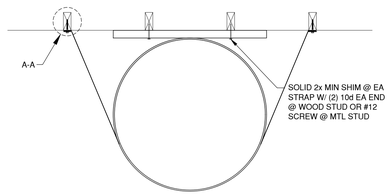


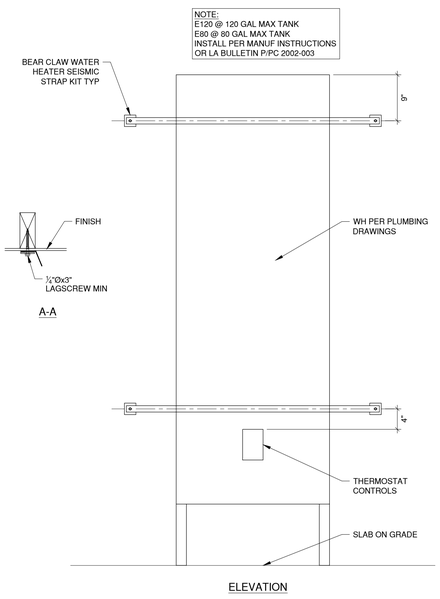
NOTE:
1. NAIL 'A34' W/ (6) 8d COMMON X 1½" LONG NAILS
2. NAILS SHALL BE AT LEAST 2 INCHES APART

BEAM POCKET SCALE:1"=1'-0" 8



PLAN VIEW

NOTE:
E120 @ 120 GAL MAX TANK
E80 @ 80 GAL MAX TANK
INSTALL PER MANUF INSTRUCTIONS OR LA BULLETIN P/PC 2002-003



A-A

ELEVATION

WATER HEATER ANCHORAGE SCALE:1"=1'-0" 2

AGENCY

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ENGINEER

REGISTERED PROFESSIONAL ENGINEER JAMES SCOTT LINDSAY No. 3160 STRUCTURAL STATE OF CALIFORNIA

LICENSED ARCHITECT C-26053 Ren. Date 08/31/2023 STATE OF CALIFORNIA

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT
ROSAMOND HIGH SCHOOL

CAFETERIA BUILDING

2925 ROSAMOND BLVD.
ROSAMOND, CA 93560

TYPICAL DETAILS

Job No.
22005

Date
06-07-22

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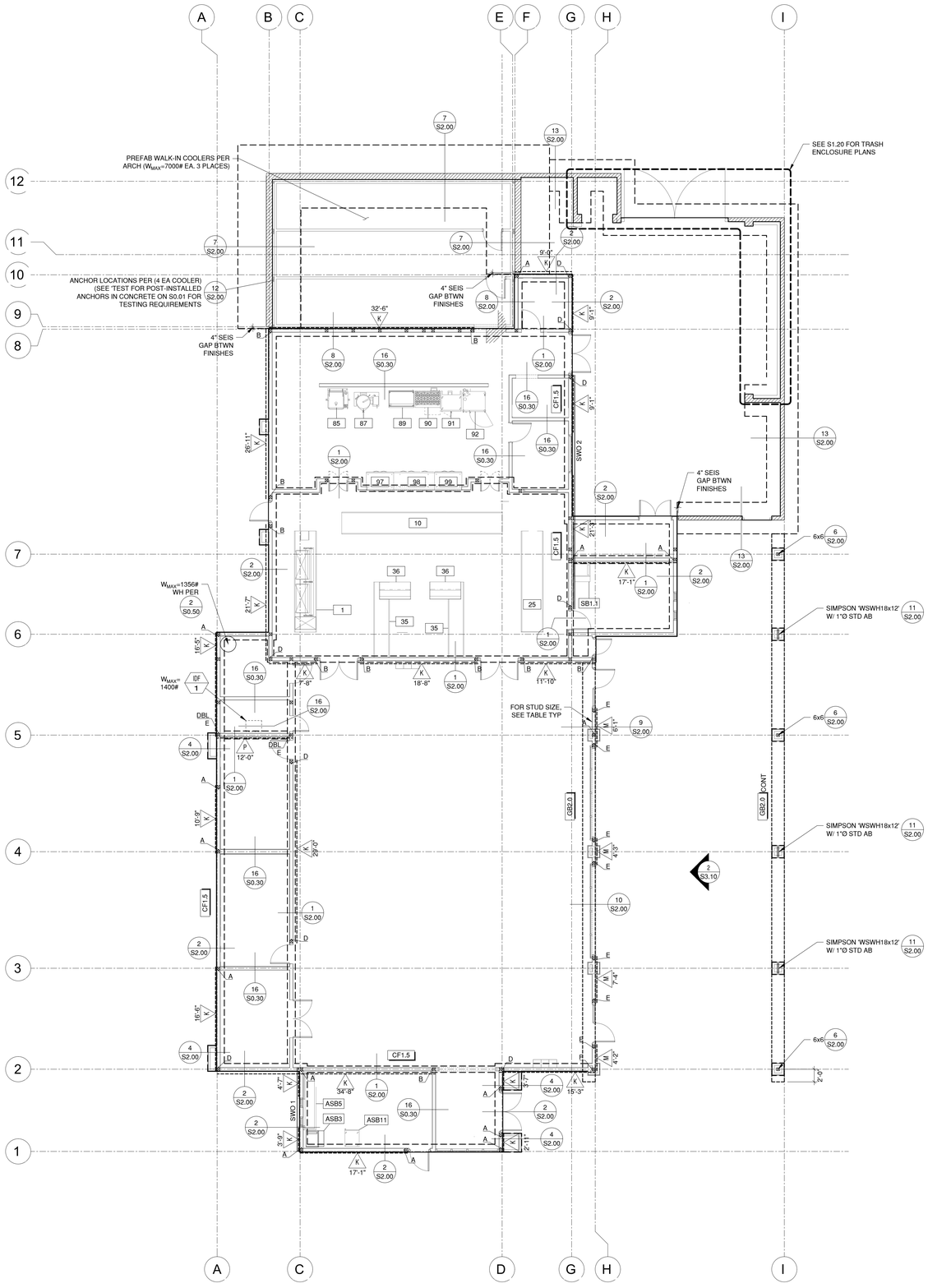


CONTINUOUS FOOTING SCHEDULE				
MARK	WIDTH	THICKNESS	REINFORCEMENT	DEPTH
CF1.5	1'-6"	20" MIN	(3) #6 CONT BARS @ T&B	12" MIN BLW LOWEST ADJ GRD
NOTES:				

GRADE BEAM SCHEDULE			
MARK	SIZE	REINF	TIES
GB2.0	24"W X 24"THK	(4) #6 T&B	#3 TIES @ 12"OC

EXTERIOR WALL STUD SIZE	
MAX PLATE OR LEDGER HT	MIN STUD SIZE
13'-6"	1¾ x 5½ VERSA-LAM LVL 2.1E 2800 @ 16"OC
15'-6"	1¾ x 5½ VERSA-LAM LVL 2.1E 2800 @ 16"OC
19'-6"	1¾ x 7¼ VERSA-LAM LVL 2.1E 2800 @ 16"OC
27'-6"	1¾ x 9¼ VERSA-LAM LVL 2.1E 2800 @ 16"OC
NOTE: ENGINEERED STUDS PER ICC-ES ESR-1387	

HOLDOWN SCHEDULE							
MARK	ALLOW. LOAD	ICC ESR #	MIN. WOOD MEMBER THICKNESS	HOLDOWN	POST FASTENERS	FDN. BOLT	DETAIL @ SLAB ON GRADE
A	2460 lb.	2330, 2611	(2) 2X	SIMPSON HDU2-SDS2.5	(6) SDS ¼" X 2½" SCREWS	SSTB16/ SB⅝X24	1 S0.40
B	3652 lb.	2330, 2611	4X	SIMPSON HDU4-SDS2.5	(10) SDS ¼" X 2½" SCREWS	SSTB20/ SB⅝X24	1 S0.40
D	5116 lb.	2330, 2611	4X	SIMPSON HDU8-SDS2.5	(20) SDS ¼" X 2½" SCREWS	SSTB28/ SB⅞X24	1 S0.40
E	7628 lb.	2330, 2611	4X6	SIMPSON HDU11-SDS 2.5	(30) SDS ¼" X 2½" SCREWS	SB1X30	1 S0.40
F	11175 lb.	2330, 2611	4X8	SIMPSON HDU11-SDS 2.5	(30) SDS ¼" X 2½" SCREWS	SB1X30	1 S0.40
DBL E	15256 lb.	2330, 2611	4X12 OR 6X6	(2) SIMPSON HDU11-SDS 2.5	(30) SDS ¼" X 2½" SCREWS EA HDU	SB1X30 HDU	14 S0.40

NOTES:
1. MAXIMUM HOLDOWN SYSTEM DEFLECTION PER FLOOR SHALL BE .2" TYP. U.N.O.
2. WHEN ALTERNATIVE CONTINUOUS ROD SYSTEMS ARE USED TO RESIST LIGHT-FRAME SHEAR WALL OVERTURNING FORCES, CALCULATIONS MUST BE SUBMITTED TO THE CODE OFFICIAL CONFIRMING THAT THE TOTAL VERTICAL DISPLACEMENT, WHICH WOULD INCLUDE STEEL ROD ELONGATION AND THE SHRINKAGE COMPENSATING DEVICE DEFLECTION, IS LESS THAN OR EQUAL TO 0.200 INCH (5 mm) FOR EACH STORY, OR BETWEEN RESTRAINTS, WHICHEVER IS MORE RESTRICTIVE. USING ALLOWABLE STRESS DESIGN (ASD), SHEAR WALL DRIFT LIMIT CALCULATIONS MUST CONSIDER THE 0.200 INCH VERTICAL DISPLACEMENT LIMIT.
3. HOLDOWN CONNECTION BOLTS AND NUTS SHALL BE TORQUED ⅓ TURN BEYOND FINGER TIGHT OR AS REQUIRED BY THE MANUF. (INSPECTOR SHALL VERIFY BY RANDOM INSPECTION PRIOR TO COVERING THE WALLS).
4. ALL HOLDOWNS ANCHOR BOLTS SHALL BE TIED IN PLACE PRIOR TO POURING CONCRETE.
5. A.T.R. INDICATES ALL THREADED ROD.

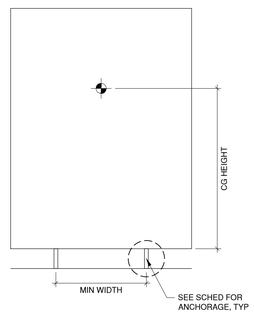
FOUNDATION NOTES:

1. SEE FOUNDATION NOTES ON SHEET S0.01 FOR DESIGN SOIL BEARING PRESSURE, ETC.
2. C1 -INDICATES COLUMN MARK, FOR SIZE SEE SCHEDULE SHEET S1.00.
   F1 -INDICATES FOOTING MARK, FOR SIZE SEE SCHEDULE SHEET S1.00.
3. K INDICATES SHEAR WALL MARK, SEE SCHEDULE SHEET S1.00.
4. A INDICATES A HOLDOWN MARK, SEE SCHEDULE SHEET S1.00.
5. 'SWO' INDICATES SHEAR WALL OPENING PER 9/S0.40
6. S-------S INDICATES STEPPED FOOTING PER DETAIL 1/S0.10
7. NEW TYPICAL CONTINUOUS FOOTINGS ARE 15" WIDE X 20" MIN THK X 12" DEEP BELOW LOWEST ADJACENT GRADE WITH (3) #4 T&B (6) TOTAL, U.N.O. CFXX INDICATES CONTINUOUS FOOTING MARK, SEE SCHEDULE SHEET S1.00
8. GB2.0 INDICATES GRADE BEAM MARK, SEE SCHEDULE SHEET S1.00.
9. INTERIOR LOAD BEARING WALLS AND ALL EXTERIOR STUD WALLS WITH NO SHEAR WALL DESIGNATION, USE: ⅝" Ø ANCHOR BOLTS @ 48" OC U.N.O.
10. SEE ARCH. FOR ALL DIMENSIONS & CONDITIONS NOT SHOWN.
11. PRIOR TO THE CONTRACTOR REQUESTING A BUILDING DEPT. FOUNDATION INSPECTION, THE SOILS ENGINEER SHALL ADVISE THE BUILDING OFFICIAL IN WRITING THAT:
    A. THE BUILDING PAD WAS PREPARED IN ACCORDANCE WITH THE SOILS REPORT.
    B. THE UTILITY TRENCHES HAVE BEEN PROPERLY BACK FILLED & COMPACTED.
    C. THE FOUNDATION EXCAVATIONS COMPLY WITH THE INTENT OF THE SOILS REPORT.
12. ALL HOLDOWNS AND ANCHOR BOLTS AT SHEARWALL SHALL BE SET IN PLACE BY TEMPLATE PRIOR TO FOUNDATIONS INSPECTION AND RETIGHTENED PRIOR TO COVERING OF WALLS.
13. TYPICAL CONCRETE SLAB ON GRADE SHALL BE 4" THICK WITH #4 @ 18"OC EA. WAY MID HT. OVER 4" OF SAND W/ 10MIL VISQUEEN VAPOR BARRIER MID. HT. PER 5/S0.20 THE MAXIMUM SPACING OF THE CONTROL JOINTS SHALL BE 30X THE SLAB THICKNESS BEFORE 7 DAYS OF CURING. SLAB CONTROL JOINTS SHALL BE PER DETAIL 8/S0.10 FULLY COORDINATED WITH THE ARCHITECT. SEE SOILS REPORT FOR SPECIAL SLAB REQUIREMENTS.
14. ALL FOOTINGS ARE CENTERED UNDER COLUMNS AND BEARING WALLS UNLESS NOTED OTHERWISE ON PLANS AND DETAILS.
15. SEE ARCHITECTURAL PLANS FOR LOCATIONS OF ALL WALL OPENINGS, SLOPED AND DEPRESSED SLABS, CONCRETE CURBS, ADDITIONAL EMBEDDED ITEMS NOT SHOWN ON THESE DRAWINGS. VERIFY ALL BUILDING DIMENSIONS, SLOPES AND DEPRESSED SLAB DIMENSIONS WITH ARCHITECTURAL PLANS BEFORE BEGINNING WORK. REPORT ANY DISCREPANCIES TO THE ARCHITECT FOR RESOLUTION.
16. SEE GENERAL NOTES AND SPECIFICATIONS FOR SPECIAL GRADING REQUIREMENTS UNDER FOOTINGS.
17. COLUMNS ARE ONE SIZE FROM FOUNDATION TO ROOF UNLESS OTHERWISE NOTED ON PLANS
18. ALL DIMENSIONS SHOWN ARE TO EDGE OF CONCRETE SLAB, CENTER OF INTERIOR WALL, OR CENTERLINE OF POST OR COLUMN, REFER TO ARCHITECTURAL PLANS FOR OTHER DIMENSIONS.
19. ALL COLUMNS ARE CENTERED ON THE GRID LINES UNLESS NOTED OTHERWISE.
20. ALL CONCRETE FLOORS TO BE FLAT U.N.O.
21. SURFACE WATER SHALL DRAIN AWAY FROM THE BUILDING. COORDINATE WITH CIVIL & LANDSCAPE.
22. CONTRACTOR SHALL COORDINATE ALL UNDERGROUND UTILITY WORK TO AVOID CONFLICTS WITH FOOTINGS.
23. CONTRACTOR SHALL SUBMIT PROPOSED FIRE RISER, CONDUIT, PIPING SLEEVE LOCATION FOR ENGINEER'S REVIEW PRIOR TO FOOTING CONSTRUCTION.
24. SEE ARCH'L AND CIVIL DRAWINGS FOR LOCATION OF MOISTURE BARRIER, CURBS, TRASH ENCLOSURES, EXTERIOR SLABS, DRAINAGE, RAMPS, WALKS, ETC.
25. FOR FOOTINGS OUTSIDE THE BUILDING ENVELOPE, COORDINATE TOP OF FOOTING ELEVATION WITH THE STRUCTURAL DETAILS AND WITH CIVIL AND LANDSCAPE.
26. BUILDING SLAB IS NOT DESIGNED TO SUPPORT CRANE LOADS, CONCRETE MIXING TRUCKS, OR OTHER SPECIFIC CONSTRUCTION LOADING. IF SUCH LOADS OCCUR, THE CONTRACTOR SHALL BE RESPONSIBLE FOR UPGRADING THE SLAB THICKNESS AND PROVIDING REINFORCING AS REQUIRED. ANY DAMAGE CAUSED TO THE SLAB SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE PER THE OWNER'S REQUEST.
27. EXCAVATIONS SHALL BE MADE IN COMPLIANCE WITH CAL/OSHA REGULATIONS.
28. BACKFILLING OF WALLS WITH RETAINED SOIL SHALL BE OF NON-EXPANSIVE GRANULAR FILL IN ACCORDANCE WITH THE SOILS REPORT. WALLS RETAINING SOIL SHALL NOT BE BACKFILLED PRIOR TO PLACING SLAB ON GRADE AND SECOND FLOOR SLAB.
29. ALL CONTINUOUS FOUNDATIONS SHALL BE EMBEDED A MINIMUM OF 12" BELOW LOWEST ADJACENT GRADE UNO, ALL PAD FOOTINGS SHALL BE EMBEDED A MINIMUM OF 18" BELOW LOWEST ADJACENT GRADE UNO.

SHEAR WALL SCHEDULE										
MARK	ALLOW. SHEAR	STUD OR BLKG AT ADJOINING PANEL EDGES	PERIODIC SPEC. INSP. PER 1705.11.2	APA RATED OSB	(EN) EDGE NAILING	(FN) FIELD NAILING	(SN) FASTENERS @ 2x SOLE PLATE TO BLKG.1,2	MUDSILL ANCHORS		'A35' OR 'LTP4' WHERE "PER SCHED." NOTED ON DET.	'URFP' OR 'FRFP'3, ICC-ES ESR 2616
								2X MUDSILL	3X MUDSILL4		
K	280 #/'	2x	NO	15/32" STR 1	8d @ 6"OC	12"OC	16d COMMON @ 9"OC	⅝"Ø @ 4'-0"	⅝"Ø @ 4'-0"	19"OC MAX	@ 4'-6"OC
M	550 #/'	3x	YES	15/32" STR 1	8d @ 3"OC	12"OC	16d COMMON @ 5"OC	⅝"Ø @ 2'-8"	⅝"Ø @ 3'-5"	9"OC MAX	@ 2'-4"OC
P	870 #/'	3x	YES	15/32" STR 1	10d @ 2"OC	12"OC	SDWS22600 DB @ 6"OC	⅝"Ø @ 1'-8"	⅝"Ø @ 2'-0"	6"OC MAX	@ 1'-6"OC

1. 3x SILL PL ONLY OCCURS AT FOUNDATIONS AND STRUCTURAL SLABS, AND NOT ON UPPER FLOORS.
2. USE 1¾"X MIN BLKG BLW MIN WHERE 16d < 4"OC OR SDWS LAGS OCCUR.
3. 'FRFP' SHALL USE TOTAL OF (5) ¼" SDS SCREW PER MANUF SPECIFICATION.
4. FOR INFO NOT SHOWN SEE DETAIL 2/S0.30

EQUIPMENT LIST						
MARK	DESCRIPTION	CG HEIGHT (ft)	MIN WIDTH (ft)	# OF ANCHORAGE POINTS PER SIDE	MAX WEIGHT IN LBS.	DETAIL
1	COUNTER	1.8961	2.375	5	2000	15/S2.00
10	COUNTER	1.8961000	2.375	6	2000	15/S2.00
25	COUNTER	1.8961	2.375	5	2000	15/S2.00
35	POS COUNTER	1.8961	2.375	4	1500	15/S2.00
36	REFRIGERATED SELF-SERVICE CASE	3.0708	2.333	2	1300	15/S2.00
85	TILTING BRAISING PAN	2.4567	2.6667	2	800	15/S2.00
87	TILTING, STEAM JACKETED KETTLE	2.2892	2	2	800	15/S2.00
89	THERMOSTATIC GRIDDLE	3	2	2	680	15/S2.00
90	8 BURNER RANGE W/ OVEN	2.375	1.9167	2	800	15/S2.00
91	DOUBLE CONVECTION OVEN	4.1317	2	2	1300	15/S2.00
92	COMBI OVEN GAS	4.2992	2.75	2	2000	15/S2.00
97	HEATED HOLDING CABINET, PASS-THRU	4.7458	2	2	700	15/S2.00
98	REFRIGERATOR, PASS-THRU	4.7458	2	2	1200	15/S2.00
99	HEATED HOLDING CABINET, PASS-THRU	4.7458	2	2	700	15/S2.00
ASB3	ICE BIN	2.4567	2.0833	2	500	15/S2.00
ASB5	SERVING COUNTER	1.8961	2	3	400	15/S2.00
ASB11	FREEZER, REACH-IN, GLASS DOOR	4.7458	2	2	600	15/S2.00
SB1.1	ICE BIN	2.7917	2.0833	2	500	15/S2.00



EQUIPMENT ELEVATION

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LICENSED ARCHITECT C-26053 Ren. Date 08/31/2023 STATE OF CALIFORNIA

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT
ROSAMOND HIGH SCHOOL

CAFETERIA BUILDING

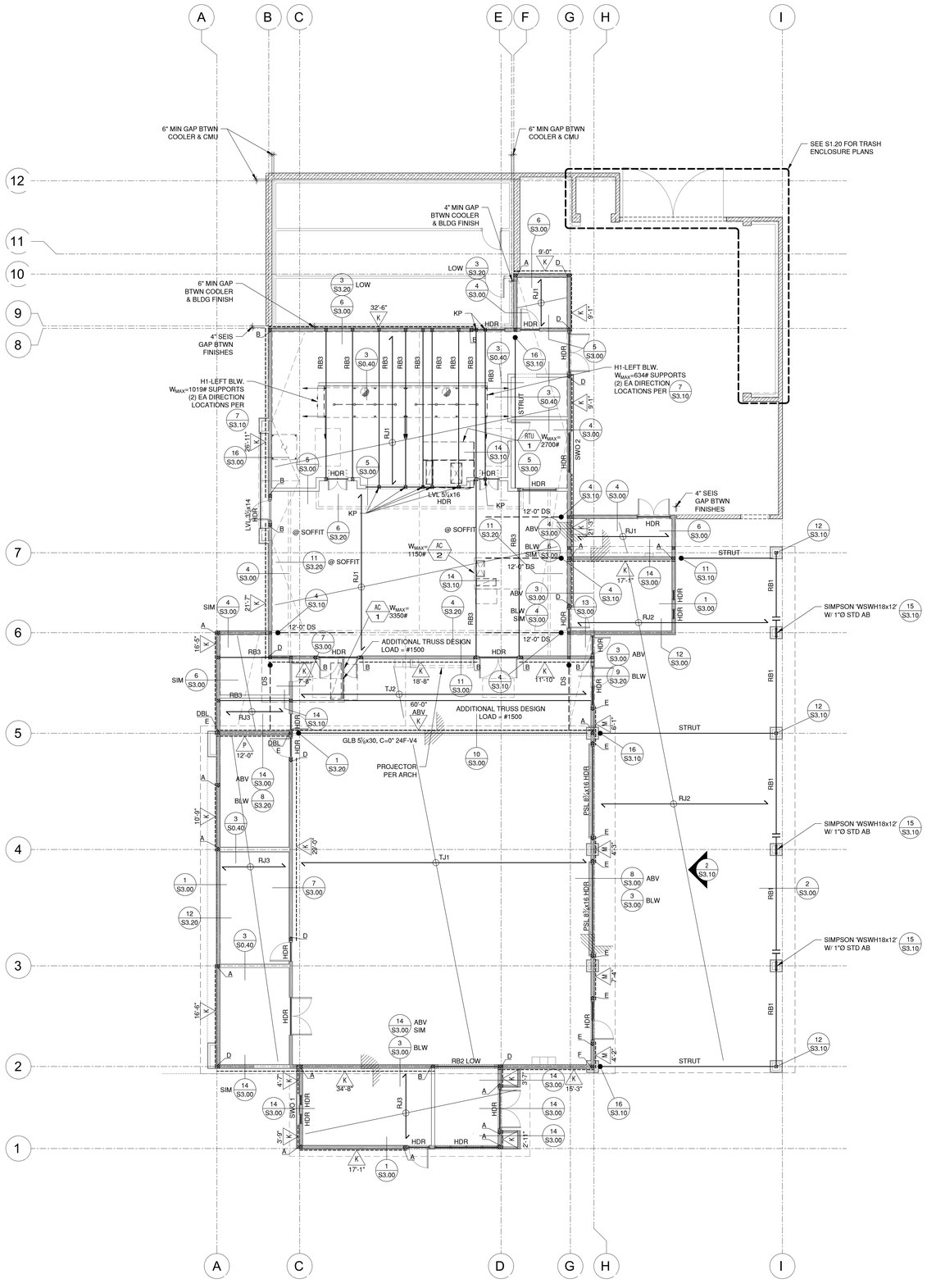
2925 ROSAMOND BLVD.
ROSAMOND, CA 93560

FOUNDATION PLAN

Job No. 22005

Date 06-07-22

S1.00



ROOF FRAMING PLAN

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

FRAMING NOTES:

1. PROVIDE 2X TRIMMER @ 7¼ OR LESS HEADER (2) 2X TRIMMER @ 9½ OR GREATER & 4X POST TRIMMER @ LVL/GLB HEADER PER DETAIL 2/S0.30
2. ALL EXTERIOR WALLS TO BE PER THE STUD SCHEDULE ON S1.00.
3. ALL INTERIOR WALLS TO BE 2x6 @ 16"OC STUDS U.N.O.
4. ALL EXTERIOR WALLS SHALL BE 100% SHEATHED. EXTERIOR WALLS WITHOUT SHEAR WALL SYMBOL SHALL HAVE SHEATHING TYPE 'K' PER SHEAR WALL SCHEDULE U.N.O. ON ARCHITECTURAL DRAWINGS.
5. FOR TYPICAL STUD WALL FRAMING SEE 2/S0.30 HEADER SIZES SHALL BE PER 2/S0.30 U.N.O.
6. PROVIDE MULTIPLE STUDS UNDER MULTIPLE JOISTS.
7. "C" = INDICATES CAMBER BETWEEN SUPPORTS ONLY @ GLUED, LAMINATED BEAMS. (i.e. NO CAMBER @ CANTILEVERS)
8. PROVIDE TWO ROWS BOUNDARY NAILING ALONG ALL STRUT MEMBERS, INTERIOR SHEAR WALLS, AND INTERIOR LATERAL FRAMES U.N.O.
9. CONTRACTOR SHALL COORDINATE ALL MECH'L. UNIT LOCATIONS, SIZES, OPENINGS, ETC. WITH MECH'L. DRAWINGS.
10. SEE ARCH. FOR ALL DIMENSIONS & CONDITIONS NOT SHOWN.
11. K INDICATES SHEAR WALL MARK FOR WALLS BELOW U.N.O., SEE SCHEDULE SHEET S1.00.
12. A INDICATES A HOLDOWN MARK FOR SHEAR WALLS FOR THE LEVEL BELOW U.N.O., SEE SCHEDULE SHEET S1.00.
13. 'SWO' INDICATES SHEAR WALL OPENING PER DETAIL 9/S0.40
14. TYPICAL ROOF SHEATHING SHALL BE 15/32" APA RATED SHEATHING, STURD-I-FLOOR, OR SINGLE FLOOR (EXPOSURE-1) (32/16) W/ 10d COMMON NAILS @ 6"O.C. BOUNDARIES, 6"O.C. OTHER PANEL EDGES, AND 12"O.C. FIELD NAILING. (UN-BLOCKED, T&G @ UNSUPPORTED PANEL EDGES OR WITH PANEL SHT'G CLIPS (ALLOW SHEAR 215 PLF))
15. UNLESS SPECIFICALLY NOTED ON THE PLANS, FRAMING SHALL NOT BE CUT OR RELOCATED WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER. CONTRACTOR SHALL OBTAIN APPROVAL OF JOIST MFR. SHOP DRAWINGS FROM BOTH MECHANICAL AND STRUCTURAL ENGINEERS PRIOR TO ERECTION OF JOIST FRAMING.
16. ALL MULTIPLE JOISTS SHALL HAVE EACH JOIST NAILED TO THE ADJACENT ONE WITH 16d @ 16"O.C. STAGGERED.
17. ALL MULTIPLE STUDS SHALL HAVE EACH STUD NAILED TO THE ADJACENT ONE WITH SOLE PLATE NAILING PER SHEAR WALL SCHEDULE, 10d @ 9"O.C. STAGGERED MINIMUM.
18. FOR HEADER SIZES NOT NOTED, REFER TO TYPICAL DETAIL SCHEDULE.
19. LOW SPOTS CREATED BY THE ROOF PITCH SHALL BE PROVIDED WITH CRICKETS AS REQUIRED TO SLOPE.
20. BALLOON FRAME ALL GABLE END WALLS U.N.O.
21. ALL ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) SHALL MEET THE MINIMUM SPECIFICATIONS IN THE AISC CODE OF STANDARD PRACTICE CHAPTER 10 UNLESS NOTED OTHERWISE ON THE ARCHITECTURAL DRAWINGS.
22. ⊠ 6X FOR 6X WALLS, 4X FOR 4X WALLS. WIDTH TO MATCH BEAM U.N.O.
23. WOOD TO WOOD, SAWN LUMBER USE 'HU' HANGER U.N.O.
    WOOD TO WOOD, PSL/LVL/LSL/GLB USE 'HGU' HANGER U.N.O.
    WOOD TO STEEL USE 'WPU' HANGER U.N.O.
24. POST W/ 'ECCG' U.N.O.
25. POST W/ 'CCQ' U.N.O.
26. 3" MIN WIDE PSL, GLB, OR DBL 2X OR 4X DF STRUT UNO W/ CONNECTOR PER PLAN.
27. DRAG STRUT W/ CONNECTOR PER PLAN U.N.O.
28. POST IN WALL TO MATCH BM. WIDTH U.N.O. PER DETAIL 9/S0.50
29. INDICATES WALLS REQUIRING TOP PLATE SPLICES PER DETAIL 7/S0.30
30. INDICATES BRACE LOCATIONS PER DETAIL 7/S3.10
31. INDICATES SPLICE LOCATION PER DETAIL 15/S3.10
32. "STRUT (XX.XK)" INDICATES TRUSS STRUT DESIGN FORCE IN KIPS (ASD). THE TRUSS DESIGNER SHALL DESIGN THE OPEN WEB TRUSS FOR THE AXIAL STRUT FORCE.

FRAMING SCHEDULE:

RJ1 = 14" TJI210 @ 16"OC BY WEYERHAEUSER

RJ2 = LVL 1¾ x 14 @ 16"OC

RJ3 = 2 x 10 DF #2 @ 16"OC

RB1 = GLB 5½ x 15 C=0" 24F-V4

RB2 = PSL 7 x 9¼

RB3 = LVL 3½ x 14

TJ1 = 32" DEEP OPEN WEB TRUSSES @ 32"OC. TRUSSES ARE A DEFERRED SUBMITTAL

TJ2 = 32" DEEP OPEN WEB TRUSSES @ 32"OC. TRUSSES ARE A DEFERRED SUBMITTAL

FOR LEGENDS, TABLES, & SCHEDULES NOT SHOWN, SEE S1.00

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LICENSED ARCHITECT C-26053 Ren. Date 08/31/2023 STATE OF CALIFORNIA

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ROSAMOND HIGH SCHOOL

CAFETERIA BUILDING

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ROSAMOND, CA 93560

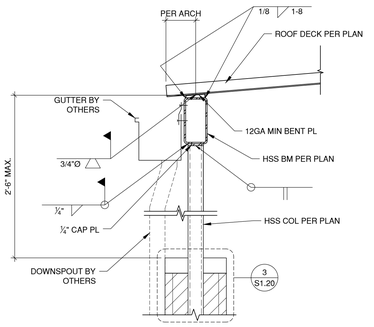
ROOF FRAMING PLAN

Job No.
22005

Date
06-07-22

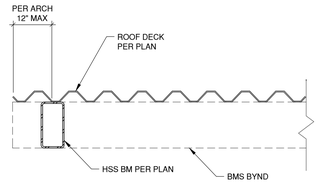
S1.10

3/7/2023 9:38:48 AM



GUTTER DETAIL

SCALE:1 1/2"=1'-0" | 5



FRAMING DETAIL

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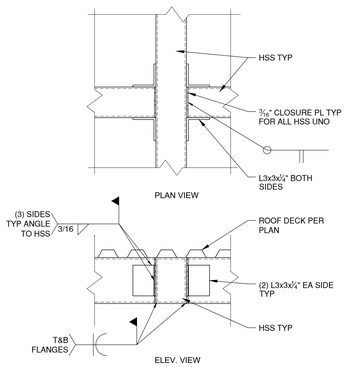
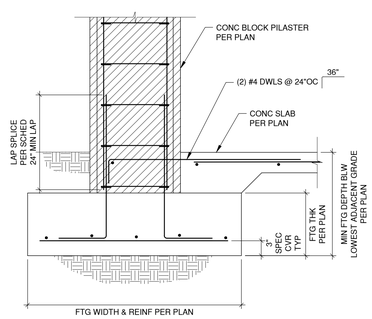


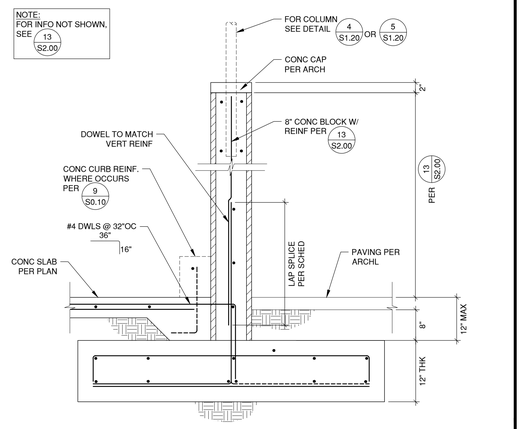
FRAMING DETAIL

SCALE:1 1/2"=1'-0" | 7



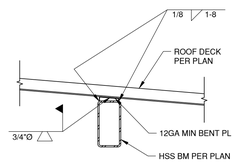
PILASTER ON FOOTING

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



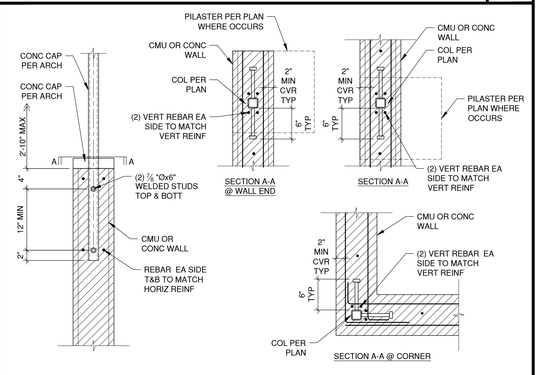
CMU CANTILEVER WALL

SCALE:1"=1'-0" | 1



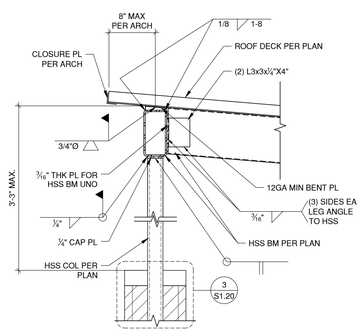
FRAMING DETAIL

SCALE:1 1/2"=1'-0" | 2



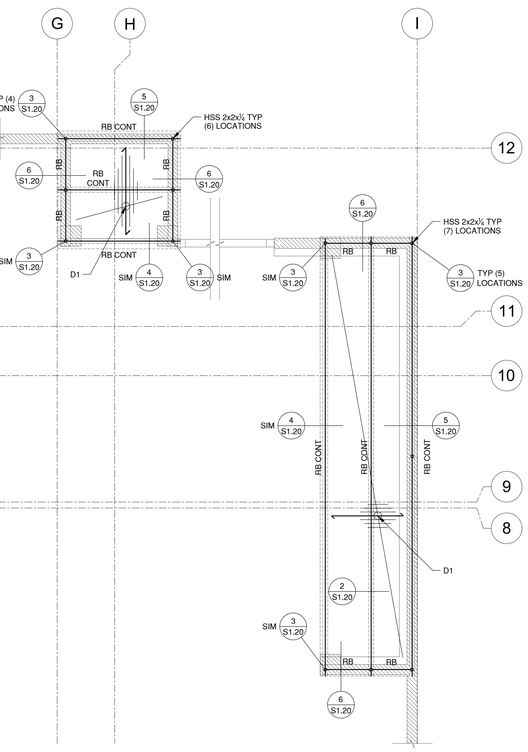
COL ON TOP OF WALL

SCALE:1"=1'-0" | 3



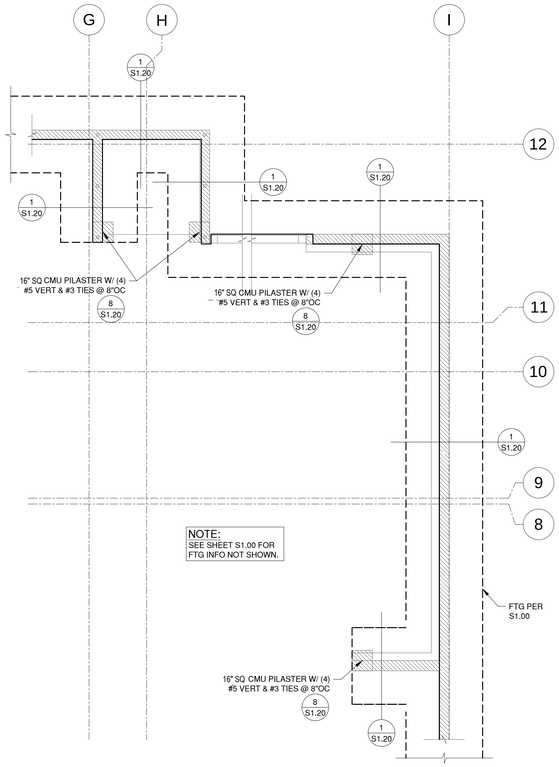
FRAMING DETAIL

SCALE:1 1/2"=1'-0" | 4



ROOF FRAMING PLAN

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



FOUNDATION PLAN

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

FRAMING SCHEDULE:

RB = HSS 6 x 4 x ⅜

FOUNDATION NOTES:

1. SEE FOUNDATION NOTES ON SHEET S0.01 FOR DESIGN SOIL BEARING PRESSURE, ETC.
2. INTERIOR LOAD BEARING WALLS AND ALL EXTERIOR STUD WALLS WITH NO SHEAR WALL DESIGNATION, USE: ⅝" Ø ANCHOR BOLTS @ 48"OC U.N.O.
3. SEE ARCH. FOR ALL DIMENSIONS & CONDITIONS NOT SHOWN.
4. PRIOR TO THE CONTRACTOR REQUESTING A BUILDING DEPT. FOUNDATION INSPECTION, THE SOILS ENGINEER SHALL ADVISE THE BUILDING OFFICIAL IN WRITING THAT:
   A. THE BUILDING PAD WAS PREPARED IN ACCORDANCE WITH THE SOILS REPORT.
   B. THE UTILITY TRENCHES HAVE BEEN PROPERLY BACK FILLED & COMPACTED.
   C. THE FOUNDATION EXCAVATIONS COMPLY WITH THE INTENT OF THE SOILS REPORT.
5. TYPICAL CONCRETE SLAB ON GRADE SHALL BE 4" THICK WITH #4 @ 18"OC EA. WAY MID HT. OVER 4" OF SAND W/ 10MIL VISQUEEN VAPOR BARRIER MID. HT. THE MAXIMUM SPACING OF THE CONTROL JOINTS SHALL BE 30X THE SLAB THICKNESS BEFORE 7 DAYS OF CURING. SEE SOILS REPORT FOR SPECIAL SLAB REQUIREMENTS.
6. ALL FOOTINGS ARE CENTERED UNDER COLUMNS AND BEARING WALLS UNLESS NOTED OTHERWISE ON PLANS AND DETAILS.
7. SEE ARCHITECTURAL PLANS FOR LOCATIONS OF ALL WALL OPENINGS, SLOPED AND DEPRESSED SLABS, CONCRETE CURBS, ADDITIONAL EMBEDDED ITEMS NOT SHOWN ON THESE DRAWINGS. VERIFY ALL BUILDING DIMENSIONS, SLOPES AND DEPRESSED SLAB DIMENSIONS WITH ARCHITECTURAL PLANS BEFORE BEGINNING WORK. REPORT ANY DISCREPANCIES TO THE ARCHITECT FOR RESOLUTION.
8. SEE GENERAL NOTES AND SPECIFICATIONS FOR SPECIAL GRADING REQUIREMENTS UNDER FOOTINGS.
9. COLUMNS ARE ONE SIZE FROM FOUNDATION TO ROOF UNLESS OTHERWISE NOTED ON PLANS
10. ALL DIMENSIONS SHOWN ARE TO EDGE OF CONCRETE SLAB, CENTER OF INTERIOR WALL, OR CENTERLINE OF POST OR COLUMN. REFER TO ARCHITECTURAL PLANS FOR OTHER DIMENSIONS.
11. ALL COLUMNS ARE CENTERED ON THE GRID LINES UNLESS NOTED OTHERWISE.
12. ALL CONCRETE FLOORS TO BE FLAT U.N.O.
13. SURFACE WATER SHALL DRAIN AWAY FROM THE BUILDING. COORDINATE WITH CIVIL & LANDSCAPE.
14. CONTRACTOR SHALL COORDINATE ALL UNDERGROUND UTILITY WORK TO AVOID CONFLICTS WITH FOOTINGS.
15. BUILDING SLAB IS NOT DESIGNED TO SUPPORT CRANE LOADS, CONCRETE MIXING TRUCKS, OR OTHER SPECIFIC CONSTRUCTION LOADING. IF SUCH LOADS OCCUR, THE CONTRACTOR SHALL BE RESPONSIBLE FOR UPGRADING THE SLAB THICKNESS AND PROVIDING REINFORCING AS REQUIRED. ANY DAMAGE CAUSED TO THE SLAB SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE PER THE OWNER'S REQUEST.
16. EXCAVATIONS SHALL BE MADE IN COMPLIANCE WITH CAL/OSHA REGULATIONS.

FRAMING NOTES:

1. CONTRACTOR SHALL COORDINATE ALL MECH'L. UNIT LOCATIONS, SIZES, OPENINGS, ETC. WITH MECH'L. DRAWINGS.
2. SEE ARCH. FOR ALL DIMENSIONS & CONDITIONS NOT SHOWN.
3. ALL ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) SHALL MEET THE MINIMUM SPECIFICATIONS IN THE AISC CODE OF STANDARD PRACTICE CHAPTER 10 UNLESS NOTED OTHERWISE ON THE ARCHITECTURAL DRAWINGS.

STEEL DECK SCHEDULE

D1

NOTE:
1. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.

MARK	STEEL DECK TYPE	GAGE	TOTAL THICKNESS (t)	CONCRETE TYPE	REINF	STEEL DECK WELDING PATTERN				MAX UNSHORED CLEAR SPAN		
						END	INT	SEAM	EDGE	SINGLE SPAN	DOUBLE SPAN	TRIPLE SPAN
D1	VERCO HSB36	18	1½"	-	-	⅜"Ø PUDDLE WELD @ 6"OC	¾"Ø PUDDLE WELD @ 6"OC	TSW @ 12"OC	⅜"Ø PUDDLE WELD @ 6"OC	9'-0"	9'-6"	10'-0"

AGENCY

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APP: 03-122536 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 03/24/2023

FLEWELLING & MOODY
architecture planning interiors

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An Employee Owned Corporation

ENGINEER

REGISTERED PROFESSIONAL ENGINEER JAMES SCOTT LUNDY STRUCTURAL STATE OF CALIFORNIA
No. C-26053
Ren. Date 08/31/2023

LICENSED ARCHITECT
C-26053
Ren. Date 08/31/2023
STATE OF CALIFORNIA

CONSULTANT

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Structural Engineers
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info@rgseinc.com

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Checked by

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SOUTHERN KERN UNIFIED
SCHOOL DISTRICT
ROSAMOND HIGH SCHOOL

CAFETERIA BUILDING

2925 ROSAMOND BLVD.
ROSAMOND, CA 93560

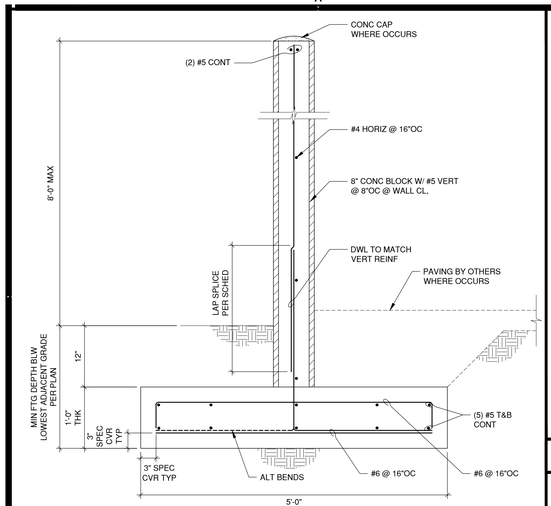
TRASH ENCLOSURE
PLANS & DETAILS

Job No.
22005

Date
06-07-22

S1.20

3/7/2023 9:38:49 AM



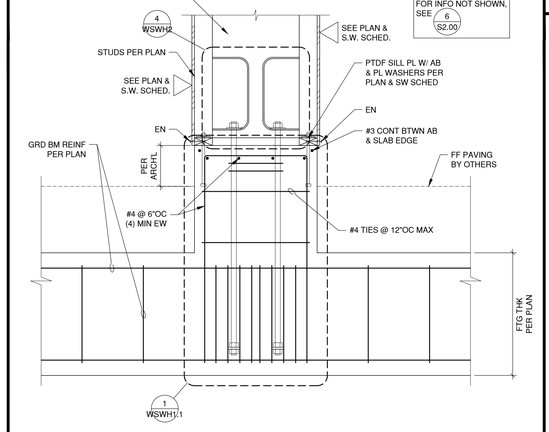
SECTION AT CMU WALL AT FREE STANDING WALL BALANCE

SCALE:1"=1'-0" 13

NOTES:
1. ANCHORAGE AND PLATE MATERIAL TO MATCH EQUIPMENT MATERIAL, TYP (I.E. STAINLESS OR CARBON; SEE NOTES ON S0.03 FOR GRADE)
2. FULLY COORD ANCHOR LOCATION W/ REQ'D CLEARANCE AROUND EQUIPMENT

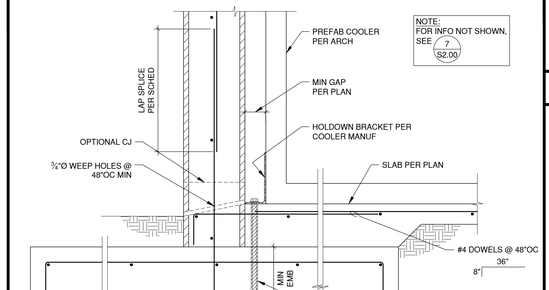
MECH ANCHORAGE

SCALE:1"=1'-0" 15



SECTION AT GRD BM

SCALE:1"=1'-0" 9



SECTION AT GRD BM

SCALE:1"=1'-0" 10

WSWH AT GRD BM

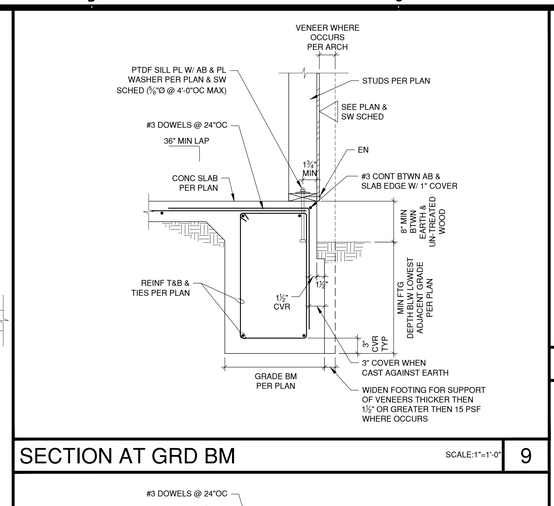
SCALE:1"=1'-0" 11

MECH ANCHORAGE

SCALE:1"=1'-0" 16

COOLER ANCHORAGE

SCALE:1"=1'-0" 12



EXTERIOR SECTION

SCALE:1"=1'-0" 2

SECTION AT CMU WALL AT COOLER

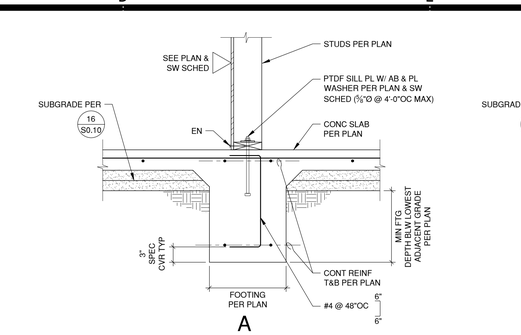
SCALE:1"=1'-0" 7

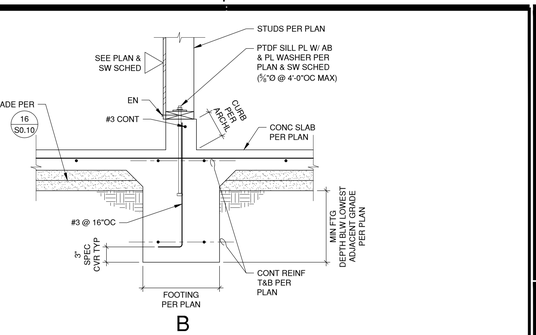
EXTERIOR SECTION

SCALE:1"=1'-0" 8

SECTION AT FTG

SCALE:1"=1'-0" 6





INTERIOR SECTION

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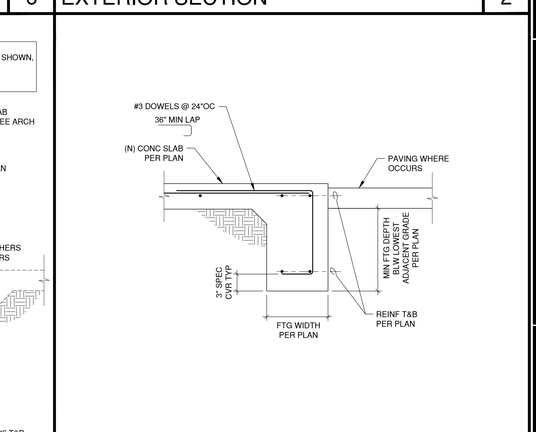

SECTION AT OPNG

SCALE:1"=1'-0" 3

SECTION AT DBL WALL

SCALE:1"=1'-0" 4

AGENCY

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122536 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/24/2023

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architecture planning interiors

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An Employee Owned Corporation

ENGINEER

REGISTERED PROFESSIONAL ENGINEER — JEREMY SCOTT LINDSEY — No. 6053 — STRUCTURAL — STATE OF CALIFORNIA

LICENSED ARCHITECT — C-26053 — Ren. Date 08/31/2023 — STATE OF CALIFORNIA

CONSULTANT

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT
ROSAMOND HIGH SCHOOL
CAFETERIA BUILDING
2925 ROSAMOND BLVD.
ROSAMOND, CA 93560

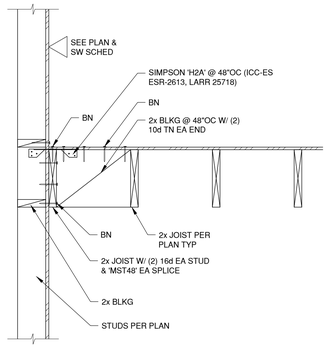
FOUNDATION DETAILS

Job No.
22005

Date
06-07-22

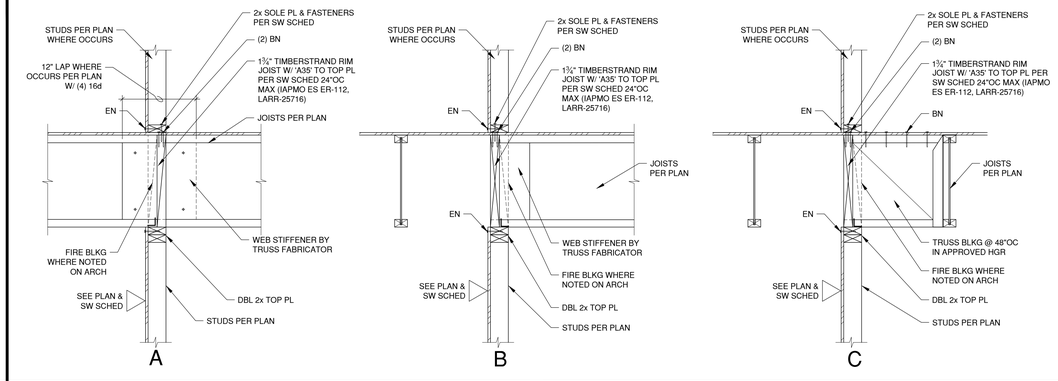
S2.00

3/7/2023 9:38:49 AM



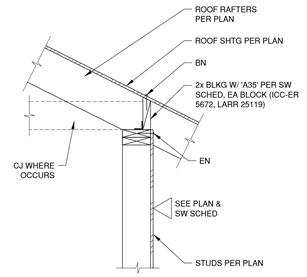
LOW ROOF SECTION

SCALE:1"=1'-0" 13



SECTION AT WALL

SCALE:1"=1'-0" 5



EAVE SECTION

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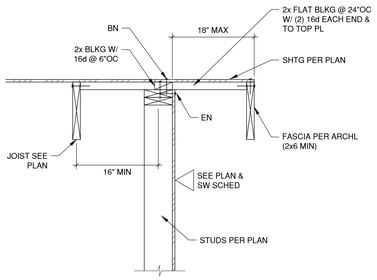

RAKE DETAIL

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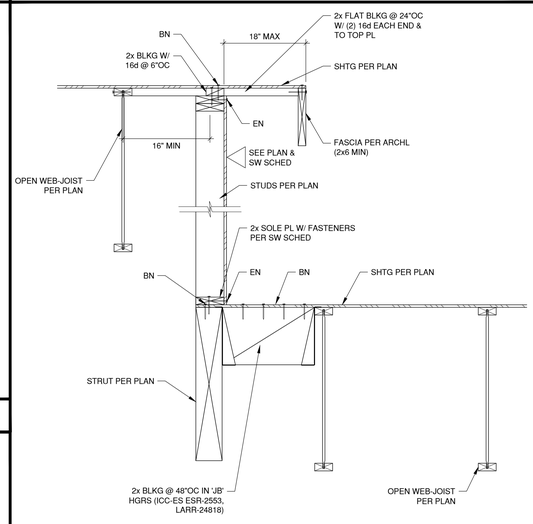

RAKE DETAIL

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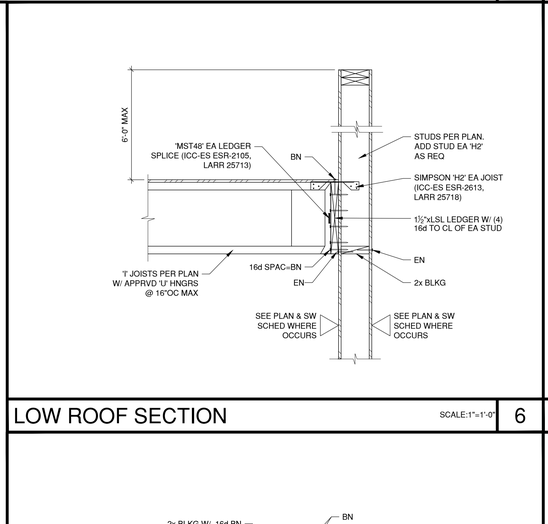
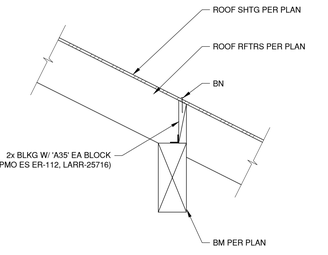


LOW ROOF SECTION

SCALE:1"=1'-0" 6



EAVE SECTION

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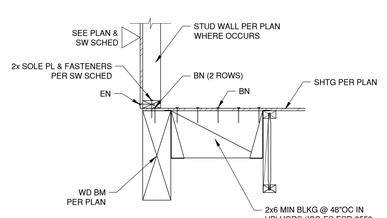


SECTION AT BEAM

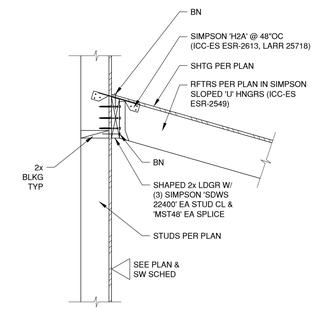
SCALE:1"=1'-0" 15

SECTION AT WALL

SCALE:1"=1'-0" 11

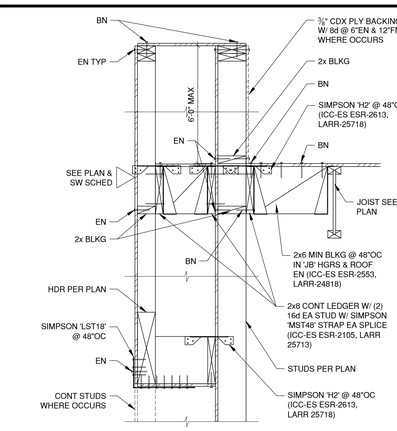
SECTION AT WALL

SCALE:1"=1'-0" 7



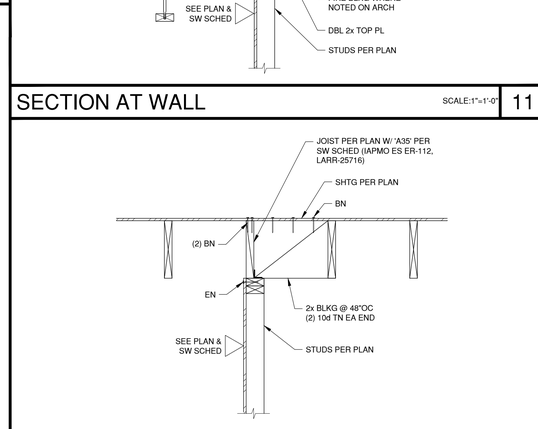
SECTION AT LOW ROOF

SCALE:1"=1'-0" 3



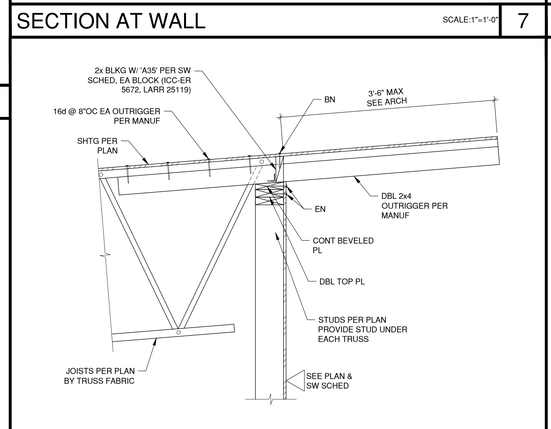
SECTION AT PARAPET

SCALE:1"=1'-0" 16



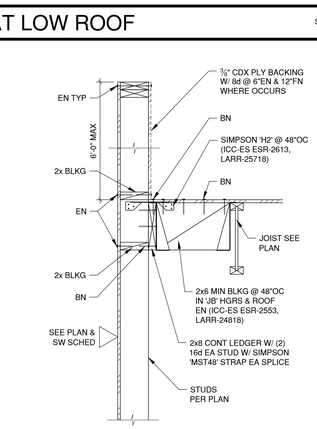
SECTION AT WALL

SCALE:1"=1'-0" 12



SECTION AT WALL

SCALE:1"=1'-0" 8



SECTION AT PARAPET

SCALE:1"=1'-0" 4

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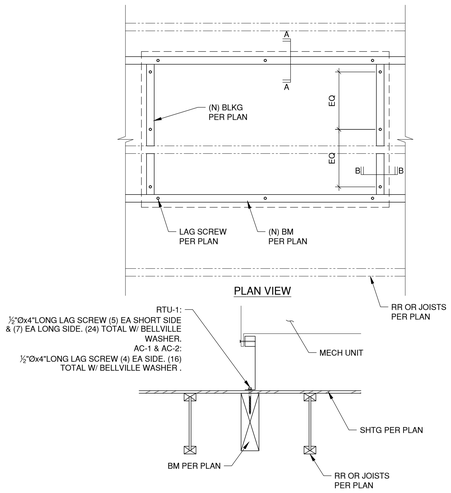
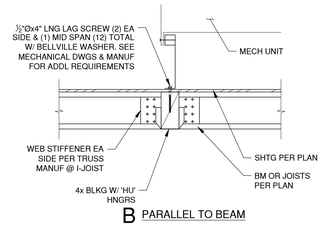
S3.00

3/7/2023 9:38:50 AM



PLAN VIEW

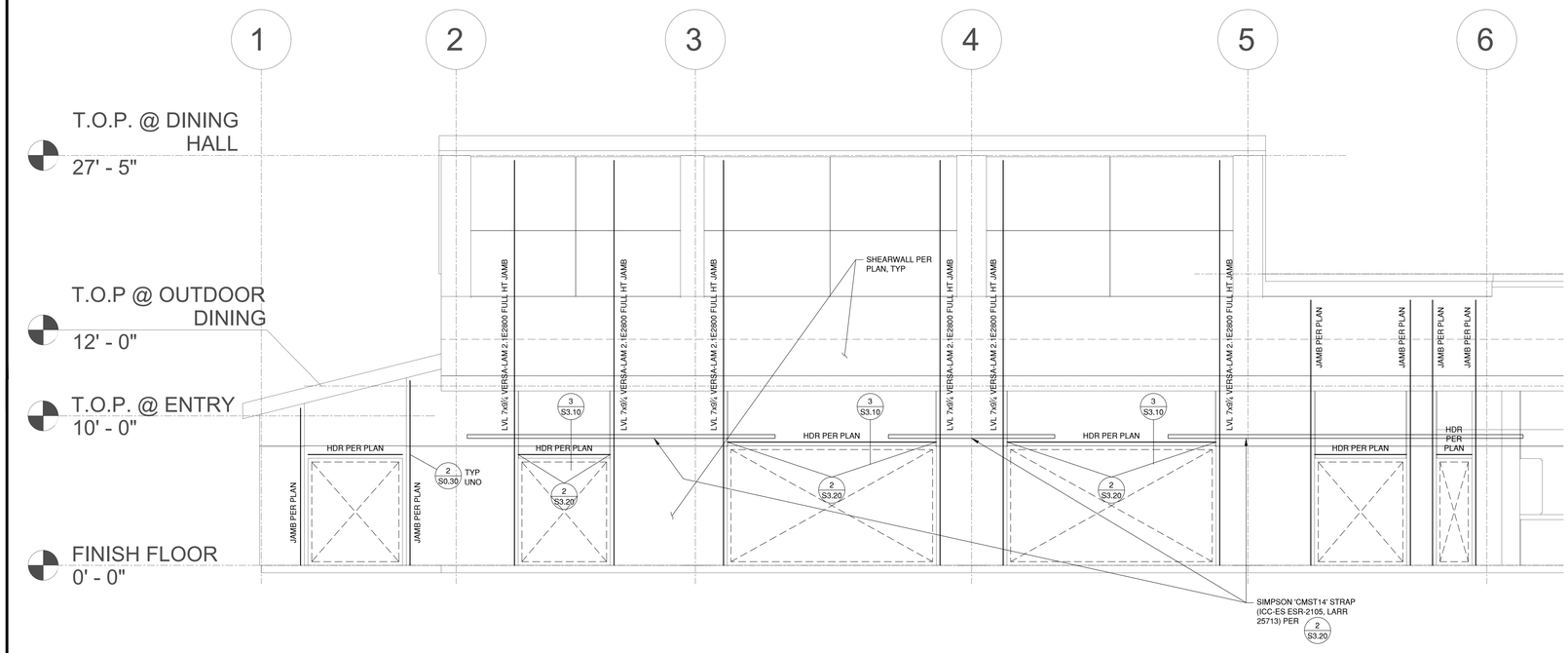
A PERPENDICULAR TO BEAM



B PARALLEL TO BEAM

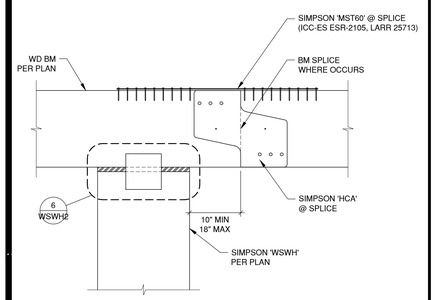
MECH ANCHORAGE DETAILS

SCALE:1"=1'-0" | 14



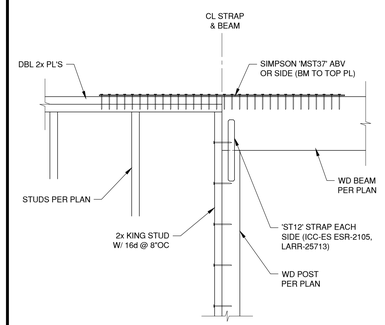
EAST ELEVATION

SCALE:1/4"=1'-0" | 2



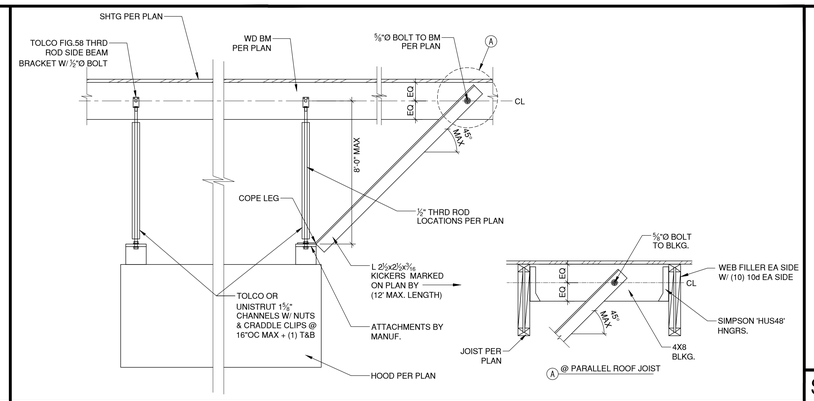
SECTION AT 'WSWH'

SCALE:1"=1'-0" | 15



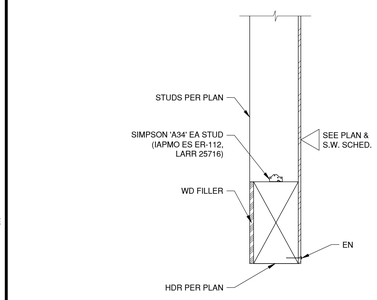
STRUT DETAIL

SCALE:1"=1'-0" | 11



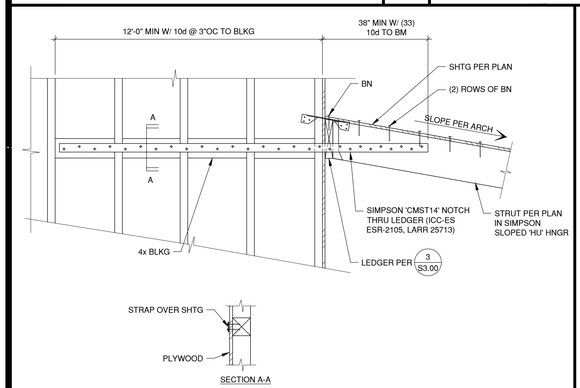
HOOD DETAIL

SCALE:1"=1'-0" | 7



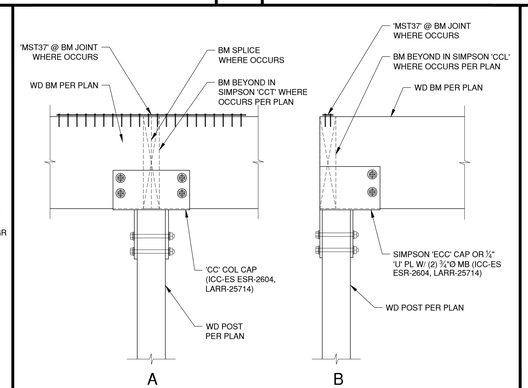
SECTION AT HDR

SCALE:1"=1'-0" | 3



STRUT DETAIL

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

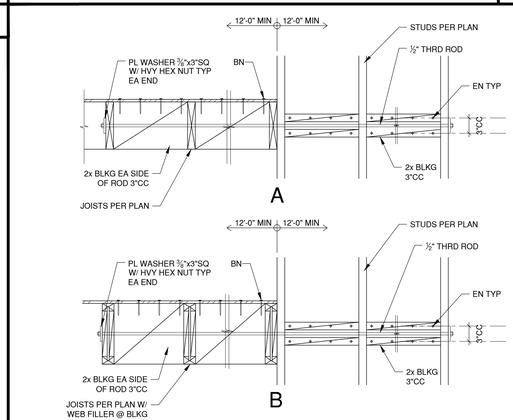


SECTION AT POST

SCALE:1"=1'-0" | 12

-

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



DRAG STRUT TO DRAG STRUT

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

AGENCY

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122536 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/24/2023

FLEWELLING & MOODY
architecture planning interiors

HEADQUARTERS OFFICE:
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ANTELOPE VALLEY OFFICE:
1035 West Lancaster Boulevard
Lancaster, California 93534
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An Employee Owned Corporation

ENGINEER

REGISTERED PROFESSIONAL ENGINEER
ROBERT SCOTT LINDSAY
No. 2688
STRUCTURAL
STATE OF CALIFORNIA

LICENSED ARCHITECT
ROBERT SCOTT LINDSAY
C-26053
Ren. Date 08/31/2023
STATE OF CALIFORNIA

CONSULTANT

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Structural Engineers
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www.rgseinc.com
info@rgseinc.com

Drawn by

Checked by

Revisions

No.	Date	Description

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared for a specific site. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Flewelling & Moody.

SOUTHERN KERN UNIFIED
SCHOOL DISTRICT
ROSAMOND HIGH SCHOOL

CAFETERIA BUILDING

2925 ROSAMOND BLVD.
ROSAMOND, CA 93560

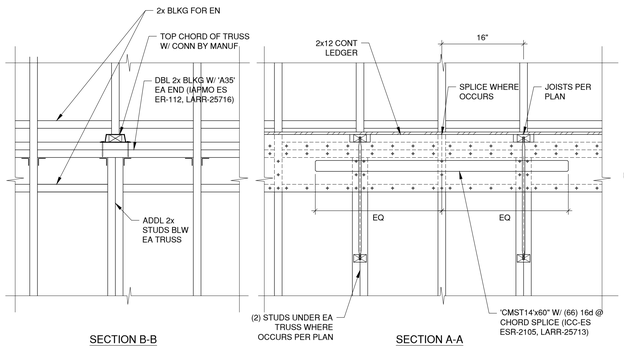
FRAMING
DETAILS

Job No.
22005

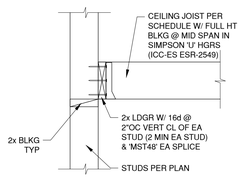
Date
06-07-22

S3.10

3/7/2023 9:38:51 AM



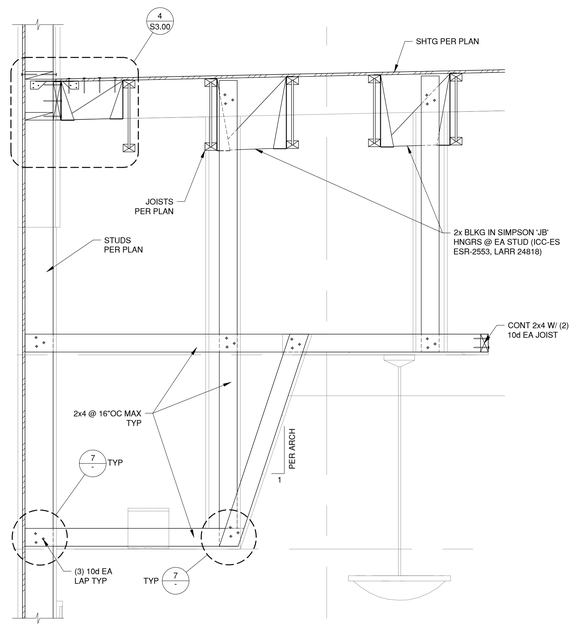
SECTION AT LEDGER — SCALE:1"=1'-0" — 9



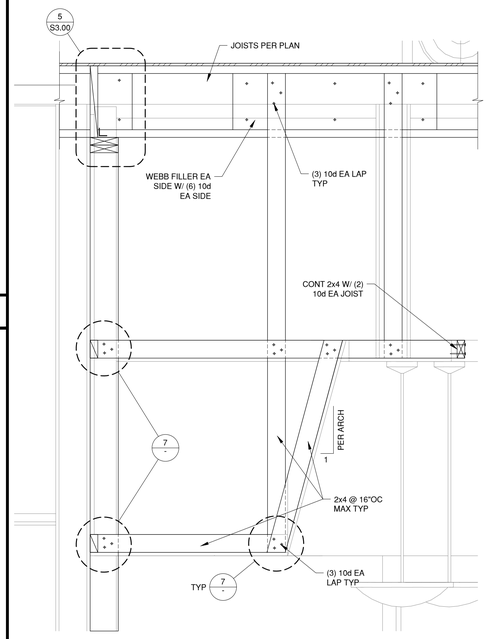
CEILING JOIST SCHEDULE (WITHOUT STORAGE)		
JOIST SIZE	JOIST SPACING	SPAN IN FEET (MAX)
2 x 4	16"OC	11'-3"
	24"OC	9'-10"
2 x 6	16"OC	17'-8"
	24"OC	14'-10"
2 x 8	16"OC	23'-0"
	24"OC	18'-9"

NOTES:
1. CEILING SPANS ARE IN ACCORDANCE WITH CBC TABLE 2308.7.
2. 15 PSF MAX TOTAL LOAD (NO STORAGE ALLOWANCE).
3. DEFLECTION LIMIT PER SPAN = L/240.
4. VALUES ARE FOR SIMPLE SPANS.

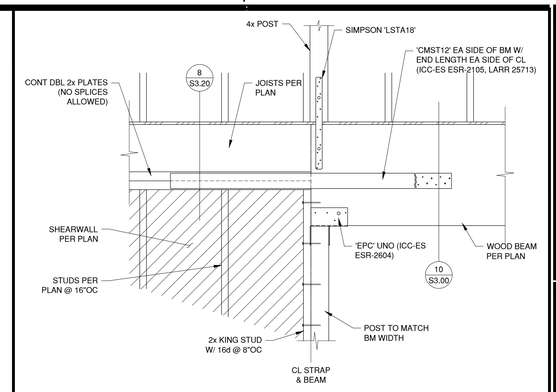
WOOD CEILING JOIST DETAILS & SCHED — SCALE:1"=1'-0" — 14



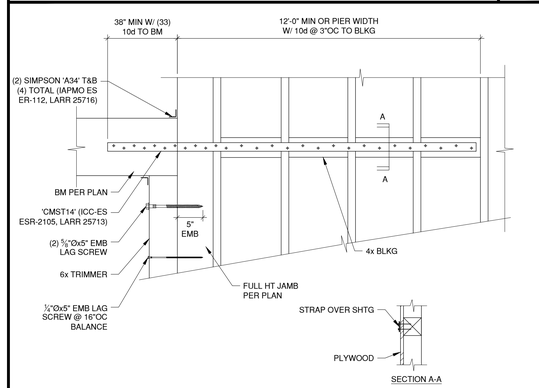
SECTION AT SOFFIT — SCALE:1"=1'-0" — 11



TYPICAL SOFFIT DETAIL — SCALE:1"=1'-0" — 7

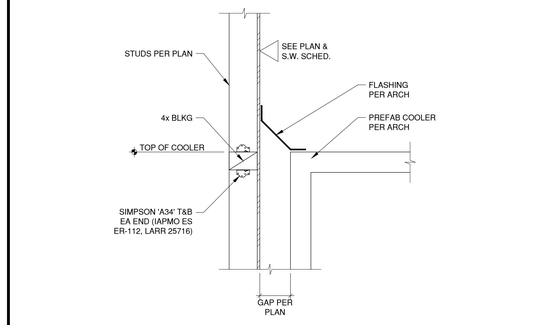


STRUT BM TO PLATE — SCALE:1"=1'-0" — 1

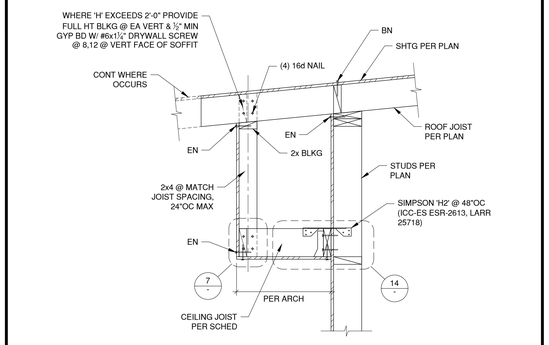


STRUT DETAIL — SCALE:1"=1'-0" — 2

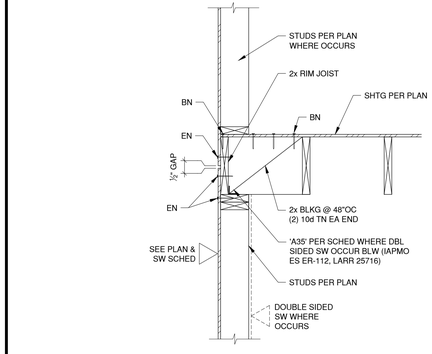
- — SCALE:1"=1'-0" — 15



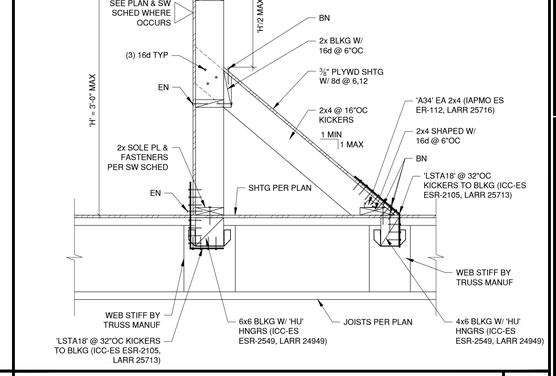
SECTION AT WALL — SCALE:1"=1'-0" — 3



TYPICAL SOFFIT DETAIL — SCALE:1"=1'-0" — 12



SECTION AT WALL — SCALE:1"=1'-0" — 8



SECTION AT KNEE WALL — SCALE:1"=1'-0" — 4

AGENCY

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122536 INC:
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SS ☑ FLS ☑ ACS ☑
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FLEWELLING & MOODY
architecture planning interiors

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ANTELOPE VALLEY OFFICE:
1035 West Lancaster Boulevard
Lancaster, California 93534
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E-Mail: fm-lancaster@flewelling-moody.com

An Employee Owned Corporation

ENGINEER

REGISTERED PROFESSIONAL ENGINEER SCOTT LUKE BRADY No. 32663 STRUCTURAL STATE OF CALIFORNIA

LICENSED ARCHITECT C-26053 Ren. Date 08/31/2023 STATE OF CALIFORNIA

CONSULTANT

RGSE inc.
Structural Engineers
2720 Cochran St. Suite 8B
Simi Valley, CA 93065
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www.rgseinc.com
info@rgseinc.com

Drawn by

Checked by

Revisions

No.	Date	Description

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT
ROSAMOND HIGH SCHOOL

CAFETERIA BUILDING

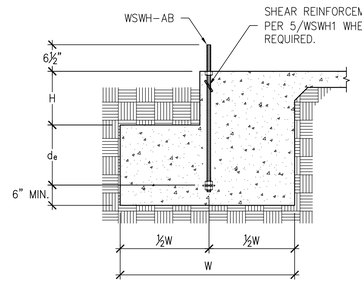
2925 ROSAMOND BLVD.
ROSAMOND, CA 93560

FRAMING DETAILS

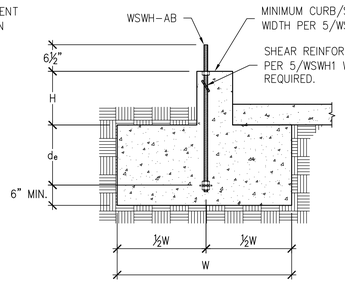
Job No. 22005

Date 06-07-22

S3.20



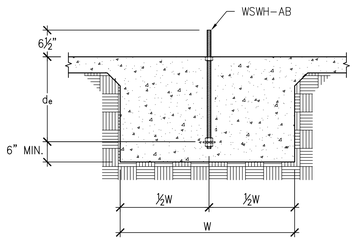
SLAB ON GRADE FOUNDATION



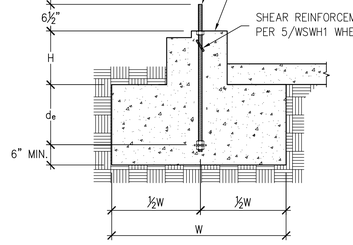
CURB OR STEMWALL FOUNDATION

NOTES :
1. SEE 2/WSWH1 FOR DIMENSIONS AND ADDITIONAL NOTES.
2. SEE 5/WSWH1 FOR SHEAR REINFORCEMENT WHEN REQUIRED.
3. MAXIMUM H = l_e–d_e. SEE 3/WSWH1 AND 4/WSWH1 FOR l_e.

DESIGNER IS PERMITTED TO MODIFY DETAILS FOR SPECIFIC CONDITIONS.

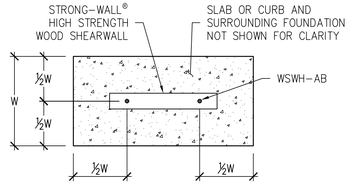


INTERIOR FOUNDATION



BRICK LEDGE FOUNDATION

STRONG–WALL® WSWH ANCHORAGE – TYPICAL SECTIONS | 1



FOUNDATION PLAN VIEW

NOTES :
1. ANCHORAGE DESIGNS CONFORM TO ACI 318–11 APPENDIX D, ACI 318–14 CHAPTER 17 AND ACI 318–19 CHAPTER 17 WITH NO SUPPLEMENTARY REINFORCEMENT FOR CRACKED OR UNCRACKED CONCRETE AS NOTED.
2. ANCHOR STRENGTH INDICATES REQUIRED GRADE OF WSWH–AB ANCHOR BOLT. STANDARD (ASTM F1554 GRADE 36) OR HIGH STRENGTH (HS) (ASTM A193 GRADE B7).
3. SEISMIC INDICATES SEISMIC DESIGN CATEGORY C–F. DETACHED 1 AND 2 FAMILY DWELLINGS IN SDC C MAY USE WIND ANCHORAGE SOLUTIONS. SEISMIC ANCHORAGE DESIGNS CONFORM TO ACI 318–11 SECTION D.3.3.4.3, ACI 318–14 SECTION 17.2.3.4.3 AND ACI 318–19 SECTION 17.10.5.3.
4. WIND INCLUDES SEISMIC DESIGN CATEGORY A AND B AND DETACHED 1 AND 2 FAMILY DWELLINGS IN SDC C.
5. FOUNDATION DIMENSIONS ARE FOR ANCHORAGE ONLY. FOUNDATION DESIGN (SIZE AND REINFORCEMENT) BY OTHERS. THE DESIGNER MAY SPECIFY ALTERNATE EMBEDMENT, FOOTING SIZE OR ANCHOR BOLT.
6. REFER TO 1/WSWH1 FOR d_e.

WSWH ANCHORAGE SOLUTIONS FOR 2500 PSI CONCRETE

DESIGN CRITERIA	CONCRETE CONDITION	ANCHOR STRENGTH	WSWH–AB1 ANCHOR BOLT		
			ASD ALLOWABLE UPLIFT (lbs)	W (in)	d_e (in)
SEISMIC	CRACKED	STANDARD	16,000	33	11
			17,100	35	12
		HIGH STRENGTH	34,100	52	18
			36,800	55	19
	UNCRACKED	STANDARD	15,700	28	10
			17,100	30	10
		HIGH STRENGTH	33,500	45	15
			36,800	48	16
WIND	CRACKED	STANDARD	6,200	16	6
			11,400	24	8
			17,100	32	11
		HIGH STRENGTH	21,100	36	12
			27,300	42	14
			34,100	48	16
			36,800	51	17
	UNCRACKED	STANDARD	6,400	14	6
			12,500	22	8
			17,100	28	10
		HIGH STRENGTH	22,900	33	11
			26,400	36	12
			34,200	42	14
			36,800	44	15

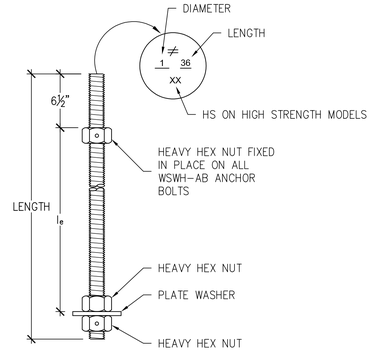
WSWH ANCHORAGE SOLUTIONS FOR 3000 PSI CONCRETE

DESIGN CRITERIA	CONCRETE CONDITION	ANCHOR STRENGTH	WSWH–AB1 ANCHOR BOLT		
			ASD ALLOWABLE UPLIFT (lbs)	W (in)	d_e (in)
SEISMIC	CRACKED	STANDARD	16,000	31	11
			17,100	33	11
		HIGH STRENGTH	33,900	49	17
			36,800	52	18
	UNCRACKED	STANDARD	16,300	27	9
			17,100	28	10
		HIGH STRENGTH	34,000	43	15
			36,800	46	16
WIND	CRACKED	STANDARD	5,600	14	6
			10,200	21	7
			17,100	30	10
		HIGH STRENGTH	20,000	33	11
			26,500	39	13
			33,600	45	15
			36,800	48	16
	UNCRACKED	STANDARD	6,200	13	6
			12,800	21	7
			17,100	26	9
		HIGH STRENGTH	21,800	30	10
			28,900	36	12
			33,100	39	13
			36,800	42	14

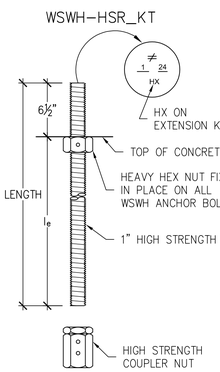
WSWH ANCHORAGE SOLUTIONS FOR 4500 PSI CONCRETE

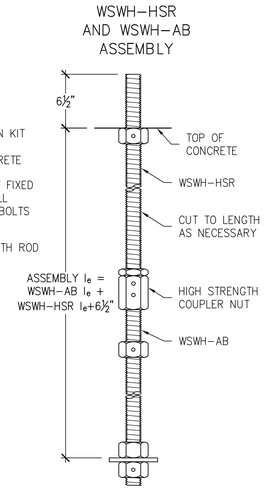
DESIGN CRITERIA	CONCRETE CONDITION	ANCHOR STRENGTH	WSWH–AB1 ANCHOR BOLT		
			ASD ALLOWABLE UPLIFT (lbs)	W (in)	d_e (in)
SEISMIC	CRACKED	STANDARD	16,000	27	9
			17,100	29	10
		HIGH STRENGTH	34,700	44	15
			36,800	46	16
	UNCRACKED	STANDARD	15,700	23	8
			17,100	25	9
		HIGH STRENGTH	33,900	38	13
			36,800	40	14
WIND	CRACKED	STANDARD	6,800	14	6
			11,600	20	7
			17,100	26	9
		HIGH STRENGTH	21,400	30	10
			28,400	36	12
			32,400	39	13
			36,800	43	15
	UNCRACKED	STANDARD	6,800	12	6
			12,400	18	6
			17,100	23	8
		HIGH STRENGTH	22,800	27	9
			26,700	30	10
			30,700	33	11
			36,800	37	13

STRONG–WALL® HIGH STRENGTH WOOD SHEARWALL TENSION ANCHORAGE SCHEDULE 2,500, 3,000 AND 4,500 PSI | 2



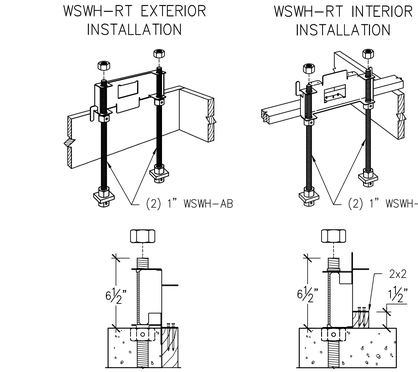
WSWH ANCHOR BOLTS | 3

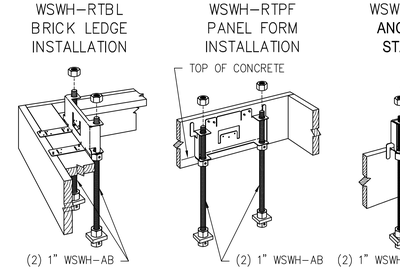




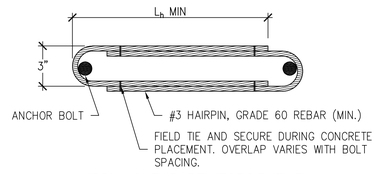
WSWH PANEL MODEL	MODEL NO.	DIAMETER	LENGTH	l_e
WSWH12, WSWH18 AND WSWH24	WSWH–HSR1x24KT	1"	24"	17½"
	WSWH–HSR1x36KT	1"	36"	29½"

WSWH ANCHOR BOLT EXTENSION | 4

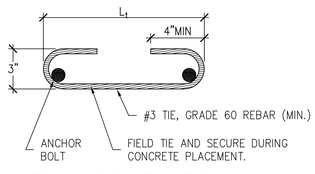




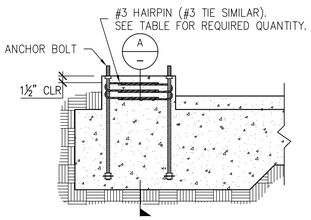
WSWH ANCHOR BOLT TEMPLATES | 6



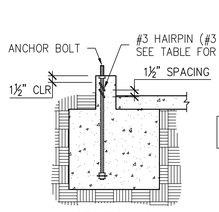
HAIRPIN SHEAR REINFORCEMENT



TIE SHEAR REINFORCEMENT



HAIRPIN INSTALLATION
(GARAGE CURB SHOWN. OTHER FOOTING TYPES SIMILAR.)



SECTION A

DESIGNER IS PERMITTED TO MODIFY DETAILS FOR SPECIFIC CONDITIONS.

STRONG–WALL® HIGH STRENGTH WOOD SHEARWALL SHEAR ANCHORAGE

MODEL	SEISMIC[3]			WIND[4]		
	L_t OR L_h (in.)	SHEAR REINFORCEMENT	MIN. CURB/ STEMWALL WIDTH (in.)	SHEAR REINFORCEMENT	MIN. CURB/ STEMWALL WIDTH (in.)	ASD ALLOWABLE SHEAR LOAD, V (lb.)
						UNCRACKED / CRACKED
WSWH12	10¼	(1) #3 TIE	6	SEE NOTE 7	6	1,080 / 770
WSWH18	15	(2) #3 HAIRPINS[5,6]	6	(1) #3 HAIRPIN	6	HAIRPIN REINF. ACHIEVES MAX. ALLOW SHEAR LOAD OF THE WSWH
WSWH24	19	(2) #3 HAIRPINS[5]	6	(2) #3 HAIRPINS[5]	6	

NOTES :
1. SHEAR ANCHORAGE DESIGNS CONFORM TO ACI 318–19, ACI 318–11 AND ACI 318–14 AND ASSUME MINIMUM 2,500 PSI CONCRETE.
2. SHEAR REINFORCEMENT IS NOT REQUIRED FOR INTERIOR FOUNDATION APPLICATIONS (PANEL INSTALLED AWAY FROM EDGE OF CONCRETE), OR BRACED WALL PANEL APPLICATIONS.
3. SEISMIC INDICATES SEISMIC DESIGN CATEGORY C THROUGH F. DETACHED 1 AND 2 FAMILY DWELLINGS IN SDC C MAY USE WIND ANCHORAGE SOLUTIONS. SEISMIC SHEAR REINFORCEMENT DESIGNS CONFORM TO ACI 318–19, SECTION 17.10.6.3, ACI 318–14, SECTION 17.2.3.5.3
4. WIND INCLUDES SEISMIC DESIGN CATEGORY A AND B.
5. ADDITIONAL TIES MAY BE REQUIRED AT GARAGE CURB OR STEMWALL INSTALLATIONS BELOW ANCHOR REINFORCEMENT PER DESIGNER.
6. USE (1) #3 HAIRPIN FOR WSWH18 WHEN STANDARD STRENGTH ANCHOR IS USED.
7. USE (1) #3 TIE FOR WSWH12 WHEN PANEL DESIGN SHEAR FORCE EXCEEDS TABULATED ANCHORAGE ALLOWABLE SHEAR LOAD.
8. #4 GRADE 40 SHEAR REINFORCEMENT MAY BE SUBSTITUTED FOR WSWH SHEAR ANCHORAGE SOLUTIONS.
9. CONCRETE EDGE DISTANCE FOR ANCHORS MUST COMPLY WITH ACI 318–19 SECTION 17.9.2, ACI 318–14 SECTION 17.7.2 AND ACI 318–11 SECTION D.8.2.
10. THE DESIGNER MAY SPECIFY ALTERNATE SHEAR ANCHORAGE.

STRONG–WALL® WSWH SHEAR ANCHORAGE SCHEDULE AND DETAILS | 5

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122536 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/24/2023

NO.	DATE	REVISIONS
0	02-26-2021	FIRST RELEASE - 2018 IBC
1	03-16-2021	2021 IBC REVISIONS

REGISTERED PROFESSIONAL ENGINEER JEFFREY SCOTT TURNER No. S4552 STRUCTURAL STATE OF CALIFORNIA

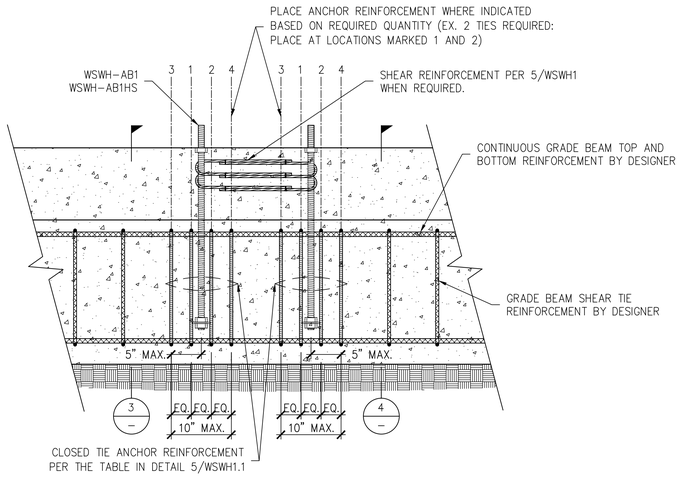
SIMPSON Strong-Tie, Co. Inc.
• 5956 W. Las Positas Blvd.
Pleasanton, CA 94588
• Tel: (800) 999-5099
• Website: www.strongtie.com

SIMPSON Strong-Tie THERE IS NO EQUAL.

STRONG-WALL® WSWH
ANCHORAGE DETAILS
ENGINEERED DESIGNS

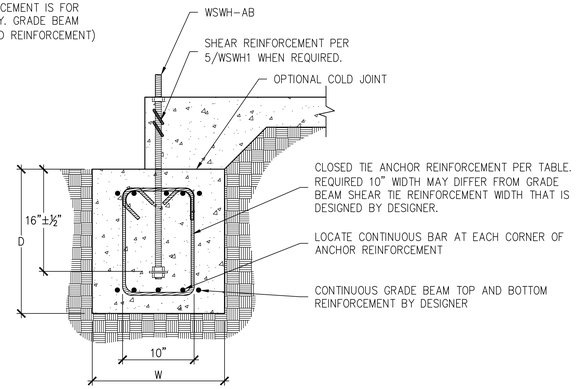
REGISTERED ARCHITECT JEFFREY SCOTT TURNER C–26053 Ren. Date 08/31/2023 STATE OF CALIFORNIA

NAME	
DATE	03-16-2021
SCALE	N.T.S.
CHECKED	
SHEET	WSWH1
OF	SHEETS
JOB NO.	



GRADE BEAM ELEVATION AT 18" AND 24" WALL MODELS | 1

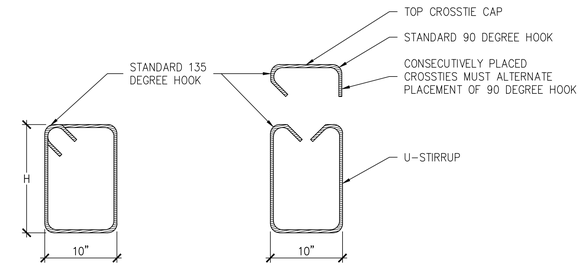
NOTES :
ANCHOR REINFORCEMENT IS FOR ANCHORAGE ONLY. GRADE BEAM DESIGN (SIZE AND REINFORCEMENT) BY DESIGNER.



ANCHOR REIN. NOTE :
MINIMUM DISTANCES FROM THE ANCHOR BOLT PLATE WASHER TO TOP AND BOTTOM OF CLOSED TIE REINFORCEMENT ARE 13" AND 5" RESPECTIVELY.

DIMENSIONING NOTES :
D: DEPTH BY DESIGNER (24" MIN.)
W: WIDTH BY DESIGNER (18" MIN.)

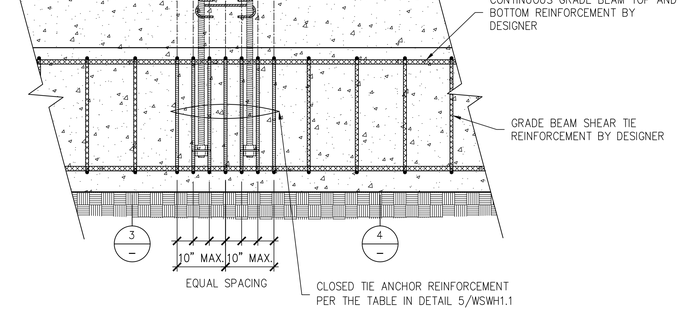
GRADE BEAM SECTION AT ANCHOR REINFORCEMENT | 3



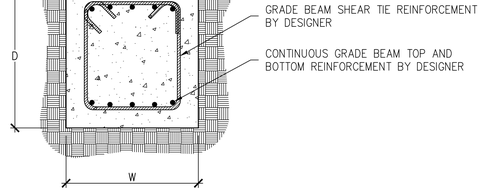
#4 SINGLE PIECE HOOP #4 TWO PIECE ASSEMBLY

DIMENSIONING NOTES :
H: HEIGHT OF ANCHOR REINFORCEMENT ASSEMBLY BY DESIGNER, SEE DETAIL 3/WSWH1.1 FOR MINIMUM REQUIREMENTS

CLOSED TIE ANCHOR REINFORCEMENT | 6



GRADE BEAM ELEVATION AT 12" WALL MODEL | 2



DIMENSIONING NOTES :
D: DEPTH BY DESIGNER (24" MIN.)
W: WIDTH BY DESIGNER (18" MIN.)

GRADE BEAM SECTION AWAY FROM ANCHOR REINFORCEMENT | 4

WSWH GRADE BEAM ANCHOR REINFORCEMENT

HIGH STRENGTH STRONG–WALL® WOOD SHEARWALL WIDTH (in.)	ANCHOR MODEL NO.	ANCHOR DIAMETER (in.)	ANCHOR REINFORCEMENT FOR WIND AND SEISMIC[3,8,9]		AMPLIFIED LRFD APPLIED DESIGN SEISMIC MOMENT (ft.–lbs.)[4,5,6,7]	
			STANDARD STRENGTH WSWH–AB1	HIGH STRENGTH (HS) WSWH–AB1HS	STANDARD STRENGTH WSWH–AB1	HIGH STRENGTH (HS) WSWH–AB1HS
12" MODEL	WSWH–AB1 WSWH–AB1HS	1	3–#4 CLOSED TIES PER 2/–	7–#4 CLOSED TIES PER 2/–	29,500	31,300
18" MODEL			2–#4 CLOSED TIES PER 1/–	4–#4 CLOSED TIES PER 1/–	48,000	72,900
24" MODEL					67,100	103,500

NOTE :
1. ANCHOR REINFORCEMENT CONFORMS TO ACI 318–19 SECTION 17.5.2, ACI 318–14 SECTION 17.4.2.9 AND ACI 318–11 SECTION D.5.2.9. FULL–SCALE TESTING WAS USED TO VALIDATE ANCHOR REINFORCEMENT CONFIGURATION AND PLACEMENT.
2. MINIMUM CONCRETE COMPRESSIVE STRENGTH, f'_c = 2500 psi.
3. CLOSED TIE ANCHOR REINFORCEMENT TO BE ASTM A615 GRADE 60 (MIN) #4 REBAR.
4. GRADE BEAM LONGITUDINAL AND TIE REINFORCEMENT SHALL BE SPECIFIED BY THE DESIGNER FOR FLEXURE AND SHEAR LOADING. DESIGN SHOULD CONSIDER PROJECT SPECIFIC DESIGN LOADS AND ALLOWABLE SOIL PRESSURE.
5. SIMPSON STRONG–TIE RECOMMENDS USING THE TABULATED MINIMUM AMPLIFIED LRFD APPLIED SEISMIC DESIGN MOMENT TO ENSURE GRADE BEAM DESIGN FLEXURE AND SHEAR STRENGTH IS ADEQUATE TO PREVENT PLASTIC HINGE FORMATION UNDER DEMANDS ASSOCIATED WITH ANCHORAGE FORCES CORRESPONDING TO ACI 318–19 SECTION 17.10.5.3, ACI 318–14 SECTION 17.2.3.4.3 AND ACI 318–11 SECTION D.3.3.4.3.
6. DESIGNER MAY USE REDUCED MOMENT DUE TO APPLIED WSWH LATERAL LOAD. MINIMUM MOMENT SHALL BE THE LESSER OF THE TABULATED MOMENT OR THE AMPLIFIED LRFD DESIGN MOMENT FOR SEISMIC: (ASD DESIGN DEMAND SHEAR/0.7) x Ω_o x WSWH WALL HEIGHT FOR GRADE BEAM DESIGN.
7. MINIMUM GRADE BEAM DESIGN MOMENT FOR WIND AND SEISMIC IN SEISMIC DESIGN CATEGORY A AND B AND DETACHED 1 AND 2 FAMILY DWELLINGS IN SDC C: (ASD DESIGN DEMAND SHEAR/0.6) x WSWH WALL HEIGHT.
8. CLOSED TIE MAY BE SINGLE PIECE HOOP OR TWO PIECE ASSEMBLY WITH A U–STIRRUP WITH STANDARD 135 DEGREE HOOKS AND A TOP CROSS TIE CAP. SEE DETAIL 6/WSWH1.1.
9. SEE DETAILS FOR GRADE BEAM ANCHOR REINFORCEMENT PLACEMENT, INSTALLATION AND SPACING REQUIREMENTS. CLOSED TIE ANCHOR REINFORCEMENT QUANTITY IS PER WALL FOR THE 12" WALL MODEL AND PER ANCHOR FOR THE 18" AND 24" MODELS.

WSWH–AB ANCHOR GRADE BEAM REINFORCEMENT AND DESIGN MOMENTS | 5

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122536 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/24/2023

NO.	DATE	REVISIONS
0	10-12-2020	FIRST RELEASE – 2018 IBC
1	03-16-2021	2021 IBC REVISIONS

LICENSED ARCHITECT
C–26053
Ren. Date 08/31/2023
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
No. 6432
STRUCTURAL
STATE OF CALIFORNIA

SIMPSON Strong-Tie, Co. Inc.
• 5956 W. Las Positas Blvd.
Pleasanton, CA 94588
• Tel: (800) 999–5099
• Website: www.strongtie.com

SIMPSON Strong-Tie THERE IS NO EQUAL

STRONG-WALL® WSWH
ALTERNATE ANCHORAGE DETAILS
ENGINEERED DESIGNS

SIMPSON Strong-Tie THERE IS NO EQUAL

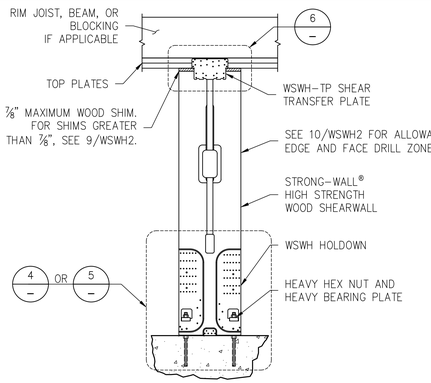
NAME	
DATE	03-16-2021
SCALE	N.T.S.
CHECKED	
SHEET	WSWH1.1
OF	SHEETS
JOB NO.	

STRONG-WALL® HIGH STRENGTH WOOD SHEARWALL MODELS

MODEL NO.	W (in.)	H (in.)	ANCHOR BOLTS		TOTAL WALL WEIGHT (lb.)
			QUANTITY	DIA. (in.)	
WSWH12x7	12	84	2	1	105
WSWH18x7	18	84	2	1	155
WSWH12x8	12	96	2	1	120
WSWH18x8	18	96	2	1	175
WSWH24x8	24	96	2	1	225
WSWH12x9	12	108	2	1	130
WSWH18x9	18	108	2	1	195
WSWH24x9	24	108	2	1	250
WSWH12x10	12	120	2	1	145
WSWH18x10	18	120	2	1	210
WSWH24x10	24	120	2	1	275
WSWH12x12	12	144	2	1	165
WSWH18x12	18	144	2	1	245
WSWH24x12	24	144	2	1	325
WSWH18x14	18	168	2	1	285
WSWH24x14	24	168	2	1	370
WSWH24x16	24	192	2	1	420
WSWH18x20	18	240	2	1	390
WSWH24x20	24	240	2	1	520

NOTES :
1. FOR HEIGHTS NOT LISTED, ORDER THE NEXT TALLEST PANEL AND TRIM TO FIT. MINIMUM TRIMMED HEIGHT FOR ALL PANELS IS 74½".
2. ALL PANELS COME WITH PRE-ATTACHED HOLDOWNS, TWO HEAVY HEX NUTS, TWO HEAVY BEARING PLATES, ONE WSWH-TP TOP CONNECTION PLATE WITH REQUIRED FASTENERS AND INSTALLATION INSTRUCTIONS.
3. ALL PANELS ARE 3½" THICK.

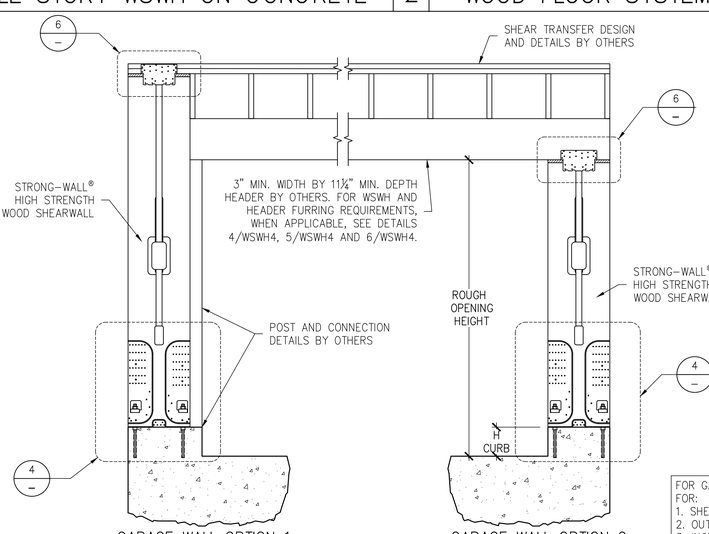
STRONG-WALL® WSWH MODELS | 1



DESIGNER IS PERMITTED TO MODIFY DETAILS FOR SPECIFIC CONDITIONS.

ENSURE CONCRETE IS LEVEL AND SMOOTH BENEATH PANEL. GRIND OR FILL AS NECESSARY.

SINGLE STORY WSWH ON CONCRETE | 2



DESIGNER IS PERMITTED TO MODIFY DETAILS FOR SPECIFIC CONDITIONS.

WHEN WSWH-PS STRAPS OMITTED, ALLOWABLE SHEAR VALUES FOR STANDARD PANEL APPLY.

GARAGE HEADER ROUGH OPENING HEIGHT

MODEL NO.	TRIMMED PANEL HEIGHT	H CURB	ROUGH OPENING HEIGHT
WSWH12x7 WSWH18x7 WSWH24x7	78"	5½"	6'-11½"
		6"	7'-0"
WSWH12x8 WSWH18x8 WSWH24x8	85½"	0"	7'-1½"
	93¾"	5½"	8'-2¾"
		6"	8'-3¼"

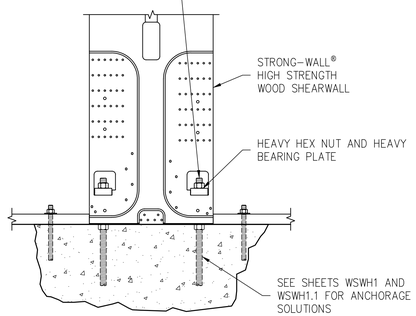
NOTES :
1. IF REQUIRED ROUGH OPENING HEIGHT EXCEEDS TABLE VALUE, SPECIFY NEXT TALLER PANEL AND TRIM AS NECESSARY. THE STRONG-WALL® HIGH STRENGTH WOOD SHEARWALL MAY BE TRIMMED TO A MINIMUM HEIGHT OF 74½".
2. FURRING DOWN GARAGE HEADER MAY BE REQUIRED FOR CORRECT ROUGH OPENING HEIGHT.

FOR GARAGE WALL OPTION 2, DESIGNER SHALL DESIGN AND DETAIL FOR:
1. SHEAR TRANSFER
2. OUT-OF-PLANE LOADING EFFECT
3. INCREASED OVERTURNING AND DRIFT DUE TO ADDITIONAL HEIGHT

ALTERNATE WSWH GARAGE FRONT OPTIONS | 3

STANDARD INSTALLATION BASE CONNECTION | 4

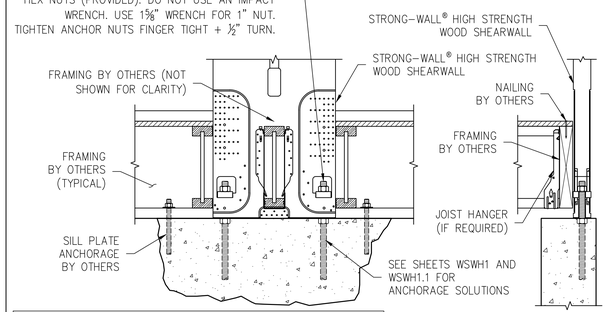
PLACE STRONG-WALL® HIGH STRENGTH WOOD SHEARWALL OVER THE ANCHOR BOLTS AND SECURE WITH HEAVY BEARING PLATES AND HEAVY HEX NUTS (PROVIDED). DO NOT USE AN IMPACT WRENCH. USE 1⅜" WRENCH FOR 1" NUT. TIGHTEN ANCHOR NUTS FINGER TIGHT + ½" TURN.



DESIGNER IS PERMITTED TO MODIFY DETAILS FOR SPECIFIC CONDITIONS.

WOOD FLOOR SYSTEM BASE CONNECTION | 5

PLACE STRONG-WALL® HIGH STRENGTH WOOD SHEARWALL OVER THE ANCHOR BOLTS AND SECURE WITH HEAVY BEARING PLATES AND HEAVY HEX NUTS (PROVIDED). DO NOT USE AN IMPACT WRENCH. USE 1⅜" WRENCH FOR 1" NUT. TIGHTEN ANCHOR NUTS FINGER TIGHT + ½" TURN.



STRONG-WALL® HIGH STRENGTH WOOD SHEARWALL HEIGHT TO INCLUDE THE DEPTH OF THE FLOOR SYSTEM AND SHALL BE INSTALLED DIRECTLY ON THE FOUNDATION. SPECIFY PANEL HEIGHT FROM TOP OF FOUNDATION TO UNDERSIDE OF TOP PLATES OR BEAM.

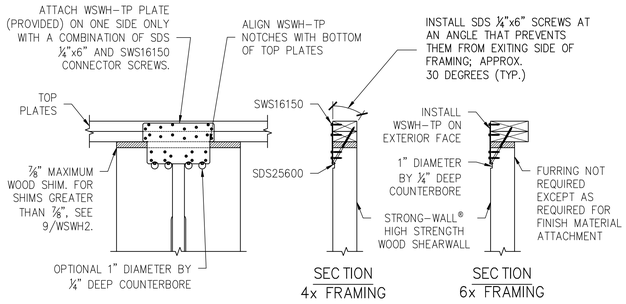
SECTION

RAKE WALL | 8

TOP CONNECTION | 6

WSWH-TP CONNECTION		
MODEL NO.	FASTENER QUANTITY	
	SWS16150	SDS25600
WSWH-TP12	14	2
WSWH-TP18	26	4
WSWH-TP24	46	8

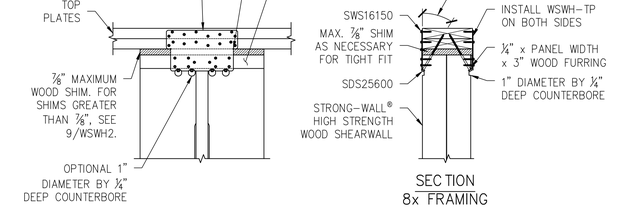
DESIGNER IS PERMITTED TO MODIFY DETAILS FOR SPECIFIC CONDITIONS.



BACK-TO-BACK TOP CONNECTION | 7

WSWH-TP CONNECTION		
MODEL NO.	FASTENER QUANTITY	
	SWS16150	SDS25600
WSWH-TP12	28	4
WSWH-TP18	52	8
WSWH-TP24	92	16

DESIGNER IS PERMITTED TO MODIFY DETAILS FOR SPECIFIC CONDITIONS.

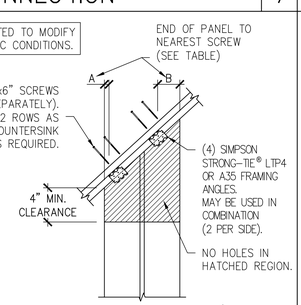


QTY. OF SDS¼"x6" SCREWS REQ'D.	
WSWH12	4
WSWH18	8
WSWH24	16

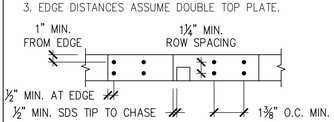
DESIGNER IS PERMITTED TO MODIFY DETAILS FOR SPECIFIC CONDITIONS.

EDGE DISTANCE FOR SCREWS		
SLOPE	A (in.)	B (in.)
0:12-4:12	2	3
5:12-8:12	1½	4½
9:12-12:12	1½	5½

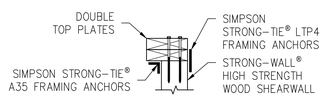
INSTALL SDS ¼"x6" SCREWS (ORDER SEPARATELY). INSTALL IN 2 ROWS AS SHOWN AND COUNTERSINK AS REQUIRED.



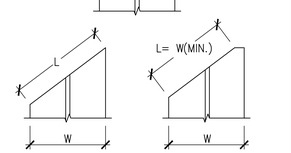
NOTES :
1. MAINTAIN END DISTANCES TO PREVENT SCREWS FROM PENETRATING THROUGH THE OUTER EDGES.
2. INSTALL SCREWS PERPENDICULAR TO THE TOP PLATE.
3. EDGE DISTANCES ASSUME DOUBLE TOP PLATE.



PLAN VIEW
SDS SCREW SPACING

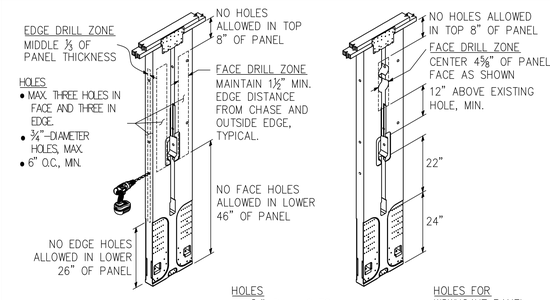


SECTION VIEW
2X6 OR WIDER FRAMING



INSTALLATION NOTES :
1. ACTUAL CUT LENGTH (L) MUST BE GREATER THAN OR EQUAL TO PANEL WIDTH (W).
2. THIS DETAIL APPLICABLE FOR SLOPES UP TO 12:12.
3. PANELS TALLER THAN 12' MUST BE DESIGNED FOR THE APPLICATION.

TOP OF WALL HEIGHT ADJUSTMENTS | 9



ALLOWABLE SMALL HOLES FACE AND EDGE DRILL ZONES

ALLOWABLE LARGE HOLES IN ADDITION TO ALLOWABLE SMALL HOLES

TRIM ZONE AND ALLOWABLE HOLES | 10

NOTES | 11

1. STRONG-WALL® HIGH STRENGTH WOOD SHEARWALL IS MANUFACTURED AND TRADEMARKED BY "SIMPSON STRONG-TIE COMPANY INC." HOME OFFICE: 5956 W. LAS POSITAS BLVD., PLEASANTON, CA 94588 TEL: (800) 999-5099, FAX: (925) 847-1597. "SIMPSON STRONG-TIE COMPANY INC." IS AN ISO 9001-2008 REGISTERED COMPANY.
2. USE OF THIS PRODUCT IS SUBJECT TO THE APPROVAL OF THE LOCAL BUILDING DEPARTMENT.
3. THIS PRODUCT IS PART OF THE OVERALL LATERAL FORCE RESISTING SYSTEM OF THE STRUCTURE. DESIGN OF THE BUILDING'S LATERAL FORCE RESISTING SYSTEM, INCLUDING THE LOAD PATH TO TRANSFER LATERAL FORCES FROM THE STRUCTURE TO THE GROUND, IS THE RESPONSIBILITY OF THE DESIGNER.
4. ENGINEER OF RECORD IS PERMITTED TO MODIFY DETAILS FOR SPECIFIC CONDITIONS.
5. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, CONDITIONS, ELEVATIONS, ETC. PRIOR TO INSTALLATION OF ANY COMPONENTS FOR THE STRONG-WALL SB SYSTEM. IF ANY DISCREPANCIES ARE FOUND, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGNER FOR CLARIFICATION PRIOR TO CONSTRUCTION.
6. INSTALLATION OF PRODUCT SHALL BE DONE IN CONFORMANCE TO THESE DRAWINGS. THE PERFORMANCE OF MODIFIED PRODUCTS OR ALTERED INSTALLATION PROCEDURES ARE THE SOLE RESPONSIBILITY OF THE DESIGNER.
7. SIMPSON STRONG-TIE COMPANY INC. RESERVES THE RIGHT TO CHANGE SPECIFICATIONS, DESIGNS, AND MODELS WITHOUT NOTICE OR LIABILITY FOR SUCH CHANGES.
8. ALL HARDWARE CALLED OUT IS SIMPSON STRONG-TIE.
9. SEE ICC-ES ESR-2652 OR CITY OF LOS ANGELES RR25730 AS APPLICABLE FOR ADDITIONAL INFORMATION.

LICENSED ARCHITECT — JEFFREY SCOTT TURNER — No. C-26053 — Ren. Date 08/31/2023 — STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122536 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/24/2023

NO.	DATE	REVISIONS
0	11-20-2020	FIRST RELEASE - 2018 IBC
1	03-16-2021	2021 IBC REVISIONS

REGISTERED PROFESSIONAL ENGINEER — JEFFREY SCOTT TURNER — No. S2652 — STRUCTURAL — STATE OF CALIFORNIA

SIMPSON Strong-Tie, Co. Inc.
• 5956 W. Las Positas Blvd.
• Pleasanton, CA 94588
• Tel: (800) 999-5099
• Website: www.strongtie.com

SIMPSON Strong-Tie — THERE IS NO EQUAL

STRONG-WALL® WSWH
FRAMING DETAILS
ENGINEERED DESIGNS

SIMPSON Strong-Tie — THERE IS NO EQUAL

NAME	
DATE	03-16-2021
SCALE	N.T.S.
CHECKED	
SHEET	WSWH2
OF	SHEETS
JOB NO.	

PLUMBING LEGEND

SYMBOL	ABBR.	ITEM	SYMBOL	ABBR.	ITEM
A.W.	A.W.	ACID WASTE		GRD.	GRADE
	A.D.	ACCESS DOOR/WALL BOX	G.W.	G.W.	GREASE WASTE
	A.F.F.	ABOVE FINISHED FLOOR		H.B.	HOSE BIBB
C.D	C.D.	CONDENSATE DRAIN		H.V.(A-C)	AIR CONDITIONING EQPT.
	C.I.	CAST IRON		L.	LAVATORY
	CLG.	CEILING		LOC.	LOCATION
C.O.	C.O.	CLEANOUT		(N)	NEW
	COMB.	COMBUSTION		N.I.C.	NOT IN CONTRACT
	CONN.	CONNECTION	— ⊣⊢ OR — ⊣⊢	P.O.C.	POINT OF CONNECTION
	CONT.	CONTINUATION		PROV.	PROVIDE
COTG	COTG	CLEANOUT TO GRADE		P.R.V.	PRESSURE REDUCING VALVE
(D)C.W.	(D)C.W.	(DOMESTIC) COLD WATER		R.D.	ROOF DRAIN
	D.F.	DRINKING FOUNTAIN		R.W.L.	RAINWATER LEADER
(D)H.W.	(D)H.W.	(DOMESTIC) HOT WATER		S.	SINK
(D)H.W.R	(D)H.W.R	(DOMESTIC) HOT WATER RETURN		S.&W.	SOIL AND WASTE
DN.	DN.	DOWN		SIM.	SIMILAR
DR'N.	DRAIN	⌀ OR ⊗ OR ⋈		S.O.V.	SHUT OFF VALVE
(E).	(E).	EXISTING		SS	STAINLESS STEEL
(E)C.W.	(E)C.W.	EXISTING COLD WATER		S.S.	SERVICE SINK
(E)H.W.	(E)H.W.	EXISTING HOT WATER		SURF.	SURFACE
(E)H.W.R	(E)H.W.R	EXISTING HOT WATER RETURN		T.&P.	TEMPERATURE AND PRESSURE RELIEF
(E)C.D	(E)C.D	EXISTING CONDENSATE DRAIN		T.P.	TRAP PRIMER
	E.D.F.	ELECTRIC DRINKING FOUNTAIN		(TYP)	TYPICAL
	E.W.H.	ELECTRIC WATER HEATER		UR.	URINAL
	F.C.O.	FLOOR CLEANOUT		V.O.	VENT OFFSET
	F.D.	FLOOR DRAIN		V.T.R.	VENT THRU ROOF
	FLR.	FLOOR		(E) W.	EXISTING WASTE
	F.S.	FLOOR SINK		W.	WASTE
G.	G.	GAS		W.C.	WATER CLOSET
(E) G.	(E) G.	EXISTING GAS		W.H.	WATER HEATER
	G.D.	GARBAGE DISPOSAL		W.C.O.	WALL CLEANOUT

Gas Calc's (Total)(2#) (600'):

(E) Campus = 4,211 MBH
(N) Building = 1,746 MBH
TOTAL = 5,957 MBH

2-1/2" G. to start per CPC 2019 Table 1215.2(4)

(E) service is served by 4" G. - (E) service is adequate; Total developed length = 562 FT.

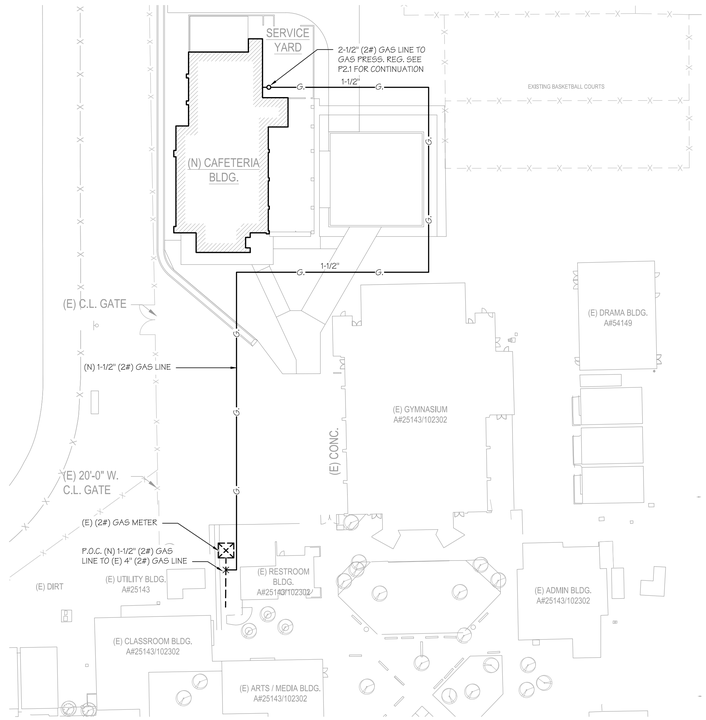
Gas Calc's ((N) Bldg.)(2#) (600'):

(N) Building = 1,746 MBH

1-1/2" G. to start per CPC 2019 Table 1215.2(4)

EQUIPMENT SCHEDULE

QTY	Item	Manufacturer	Model	Description	CW	HW	DRAIN SIZE	MBTU	GAS SIZE
1	1.2	JOHN BOOS	PB-DISINK091106-STD	SINK, DROP-IN	1/2"	1/2"	1 1/2"		
1	3	ALTO-SHAAM	400-CW	COLD FOOD DROP-IN WELL			3/4"		
1	5	ALTO-SHAAM	400-CW	COLD FOOD DROP-IN WELL			3/4"		
1	25.1	JOHN BOOS	PB-DISINK091106-STD	SINK, DROP-IN	1/2"	1/2"	1 1/2"		
1	26	ALTO-SHAAM	400-CW	COLD FOOD DROP-IN WELL			3/4"		
1	28	ALTO-SHAAM	400-CW	COLD FOOD DROP-IN WELL			3/4"		
1	50.1	Fabricator	Custom	Sink 20 X 20			1 1/2"		
1	50.2	T&S	B-0133-B	Pre-Rinse Faucet	1/2"	1/2"			
1	51	CHAMPION	DH6000T-VHR	DISHWASHING MACHINE	3/4"		1 1/2"		
1	52	Fabricator	Custom	3 Comp sink & Clean dishtable					
1	54	Fabricator	Custom	3 Compartment Sink					
3	54.1	Fabricator	Custom	Sink 24" X 24" X 12"					
3	54.2	T&S	B-3940	Twist Drain Valve			1 1/2"		
1	54.3	T&S	B-0133-12CRBJST	Pre-Rinse Unit: W/ Add-On Faucet	1/2"	1/2"			
1	54.4	T&S	B-0231	FAUCET	1/2"	1/2"			
1	75	JOHN BOOS	PBHS-W-0909-P-SSLR	HAND SINK	1/2"	1/2"	1 1/2"		
2	79.1	Fabricator	Custom	Sink 18" X 24"					
2	79.2	T&S	B-3940	Twist Drain Valve			1 1/2"		
1	79.3	T&S	B-0231	FAUCET	1/2"	1/2"			
2	80	Fabricator	Custom	Wall Shelf					
1	81	JOHN BOOS	PBHS-W-0909-P-SSLR	HAND SINK	1/2"	1/2"	1 1/2"		
1	84.1	CaptiveAire	Custom	Control and Ansul Cabinet					
1	85	GROEN	BPM-30G	Tilting Braising Pan	1/2"	1/2"		104	1/2"
1	85.1	T&S	B-0268-04	Double Pantry Faucet	1/2"	1/2"			
1	86	Fabricator	Custom	Floor Trough					
1	87	GROEN	DH-40	Tilting, Steam Jacketed Kettle	1/2"	1/2"		100	1/2"
1	87.1	T&S	B-0268-04	Double Pantry Faucet	1/2"	1/2"			
1	88	Fabricator	Custom	Floor Trough					
1	89	IMPERIAL RANGE	ITG-48	THERMOSTATIC GRIDDLE				120	24"3/4"
1	90	IMPERIAL RANGE	IR-8-C-XB	8 Burner Range w/ oven				286	3/4"
1	91	IMPERIAL RANGE	ICVG-2	Double Convection Oven				140	3/4"
1	92	RATIONAL	PRO 6 ON PRO 6	COMBI OVEN GAS	3/4"		2"	106	3/4"
1	ASB2	3M Purification	ICE160-S	Water Filter Assembly	1/2"				
1	ASB3	Scotsman	B530P	Ice Bin			3/4"		
1	ASB4	Scotsman Ice	C1030MA_32D	Prodigy Ice Machine	1/2"		3/4"		
1	ASB8	JOHN BOOS	PBHS-W-0909-P-SSLR	HAND SINK	1/2"	1/2"	1 1/2"		
1	ASB10	Fabricator	Custom	Work Table					
1	ASB10.1	Fabricator	Custom	Dump Sink 10" X 14"			1 1/2"		
1	ASB10.2	T&S	B-0226	Faucet Deck Mount	1/2"	1/2"			
1	ASB17	JOHN BOOS	3PBCS18-2D18	SINK, 3 COMPARTMENT					
3	ASB17.1	T&S	B-3950	Waste Drain Valve			1 1/2"		
1	ASB17.2	T&S	B-0133-12CRBJST	Pre-Rinse Unit: W/ Add-On Faucet	1/2"	1/2"			
1	ASB17.3	T&S	B-0231	FAUCET	1/2"	1/2"			
1	SB1	Scotsman Ice	C1030MA_32D	Prodigy Ice Machine	1/2"		3/4"		
1	SB1.1	Scotsman	B530P	Ice Bin			3/4"		
1	SB1.2	3M Purification	ICE160-S	Water Filter Assembly	1/2"				
1	SB2	Beverage-Air	HBR23HC-1-HG	Refrigerator, Reach-In, Glass Door					
1	SB3								
1	SB3.1	Fabricator	Custom	Hand Sink 9" X 14"			1 1/2"		
1	SB3.2	T&S	B-0226	Faucet Deck Mount	1/2"	1/2"			
1	SB3.3	Fabricator	Custom	Dump Sink 10" X 14"			1 1/2"		
1	SB3.4	T&S	B-0226	Faucet Deck Mount	1/2"	1/2"			



PARTIAL SITE PLAN

SCALE: 1"=40'-0"

Plumbing Fixture Schedule:

WC-1
Floor mounted F.V. elongated accessible water closet, "Kohler" # K-96057 *Highcliff*, "Olsonite" # 10CC open-front white seat, bolt caps,"Zurn" # ZER6000AV-HET-CCP battery powered 1.28 GPF sensor flush-valve, 1-1/4" C.W.(reduce to 1" @ flush-valve), 3" S. & W., 2" V.O.

WC-2
Floor mounted F.V., elongated water closet, "Kohler" # K-96053 *Welcomme*, "Olsonite" # 10CC open-front white seat, bolt caps,"Zurn" # ZER6000AV-HET-CCP battery powered 1.28 GPF sensor flush-valve, 1-1/4" C.W.(reduce to 1" @ flush-valve), 3" S. & W., 2" V.O., (see plan for trap primer accessory)

UR
Wall mt'd. accessible urinal, "Kohler" # K-4991-ET-0 *Bardon,*"Zurn" # ZER6003AV-ULF-CP battery powered (pint) sensor flush-valve, wall hanger, (mount hanger per detail on plans) see manufacturers installation instructions for mounting heights, 3/4" C.W., 2" W., 2" W.C.O., 1-1/2" V.O. (See detail D/P1.0)

L
Wall hung vitreous china accessible lavatory, "Kohler" # K-2007 (21" x 18") Kingston, offset grid drain, "Zurn" #Z6950-XL-IM-S-F sensor faucet (0.5 GPM), (2) threaded angle wall stops with braided S.S. supplies, 17 ga. C.P. trap/offset tailpiece, (wrap H.W. and trap/tailpiece with "Pro Flo" # PF202WH covers), Provide "Leonard" # 170-LF-BP tempering valve set @ 105 degrees F., 1/2" H.W./C.W., 2" W., 2" W.C.O., 1-1/2" V., provide "Zurn" #Z1251 stud mounted support arms. (See detail C/P2.1)

TP
Trap primer in wall access door, "Precision Plumbing Products" Model P1-500 with manifold as required for multiple traps, 1/2" C.W. w/ ball valve to primer.

FD
Cast iron floor drain, "J.R. Smith" #2005-A with round grate (see plans), 2" trap with primer connection, 2" W., 1-1/2" V.O. (2" V.O. below slab if shown)

HB-1
Wall mounted bent nose brass loose tee key hose bibb, "Acorn" # 8121 with integral vacuum breaker, 3/4" C.W.

HB-2
Riser mt'd. hose bibb, "Acorn" # 8136 with integral vacuum breaker, loose key handle, 3/4" C.W.

CW
Can wash, "Zurn" # Z1982 floor sink with spray (1/2" tempered water connection), sediment bucket, S.S. boxed valve to be "Zurn" # Z1464, 1/2" H.W./C.W., 2" waste, 2" V.O., 1/2" tempered water to drain spray

FS-1
12"x12" enameled cast iron floor sink, "J.R. Smith" # 320-Y02-11 with nickel-bronze rim and half-grate, 2" W., 2" W.C.O., 2" V.O. (below floor), 1-1/2" V.O.

FS-2
4"x8" enameled cast iron floor sink, "J.R. Smith" # 3300Y-12 with nickel-bronze rim and half-grate, 2" W., 2" W.C.O., 2" V.O. (below floor), 1-1/2" V.O.

MS
Floor mt'd. cast iron mop sink, "Ceco" # 871 w/ rim guard, (3") strainer, "Zurn" # Z843M1-RC-FC faucet w/ vac. brk'r and top brace, 2" trap, 3/4" H.W./C.W., 3" W., 2" V.O., (28" x 28")

EDF
Wall mounted electric dual hi-lo accessible drinking fountain / hydration bottle-fill station, "Elkay" #EZSTL8WSLK, 1/5th H.P. @ 120v.-1ph., (2) threaded angled wall stops with braided stainless steel supplies, 17 ga. C.P. trap/tailpiece, 2" W., 2" W.C.O., 1-1/2" V.O., 1/2" C.W.

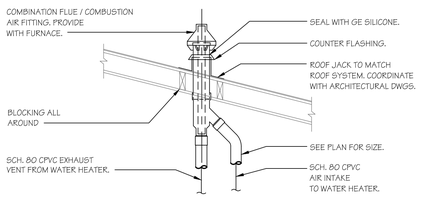
RD
Combination rood drain/overflow, "Zurn" # Z-164-NH, 3", Cast Iron low profile domes, no-hub connections

DN
"Zurn" # Z199-DC downspout nozzle.

CP
Bronze body (lead free) domestic hot water circulating pump, "Taco" #006-B4-2PNP, .52 A. @120v. - 1ph. 4GPM @ 8ft. head, integral digital time clock, 3/4" sweat connections, 7 lbs.

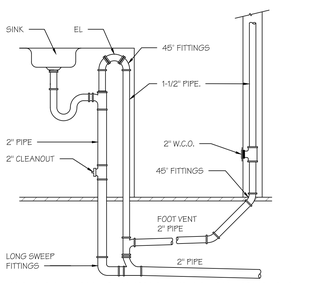
TV
Exposed mounted high-low tempering valve, "Powers" # LFSH1434, see plan for H.W./C.W. inlets, 1-1/2" tempered water outlet (see plan), rough brass, field provided outlet thermometer, (set to 120 degrees F.) .5-27 GPM range. Increase discharge as shown on plans and reduce into tempering valve as shown.

WH
Gas high efficiency (94%) sealed combustion water heater, "A.O. Smith" # BTH-150, 100 gallon glass lined tank, 150,000 BTUH nat. gas input, 297 GPH recovery @ 60 degree rise, 3" dia. PVC flue and 3" dia. PVC combustion air thru roof in concentric kit, "Amtrol" # ST-5 expansion tank mounted on the C.W. inlet, 5 amps at 120v.-1 phase for flue blower and electric ignition, 1336 lbs. (wet),



COMBINATION INTAKE/ COMBUSTION FLUE THRU ROOF

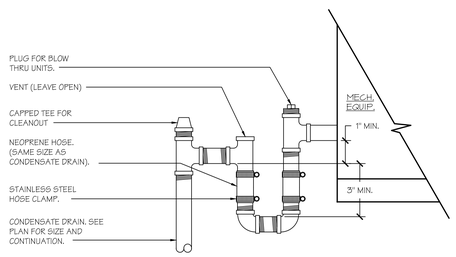
SCALE: NTS — A



RAISE RETURN VENT AS HIGH AS POSSIBLE UNDER THE DRAIN BOARD. USE 2 (45) FITTINGS AND ONE LONG RADIUS ELBOW TO MAKE LOOP. INSTALL LONG SWEEP FITTINGS BELOW FLOOR AND RUN HORIZONTALLY TO NEAREST PARTITION. USE 45□ FITTINGS FOR EASY STOPPAGE CLEANING.

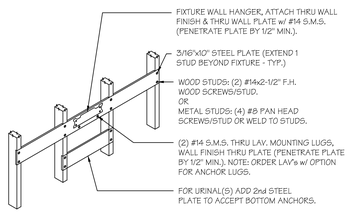
ISLAND SINK VENTING

SCALE: N.T.S. — B



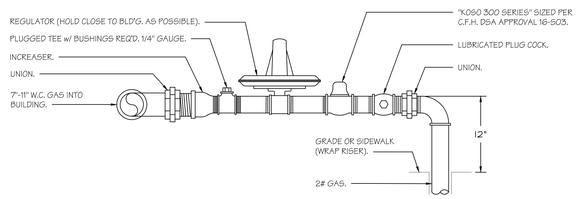
CONDENSATE DRAIN CONNECTION

SCALE: N.T.S. — C



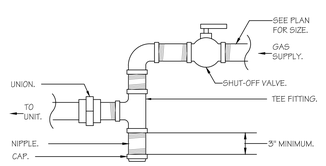
URINAL MOUNTING

SCALE: N.T.S. — D



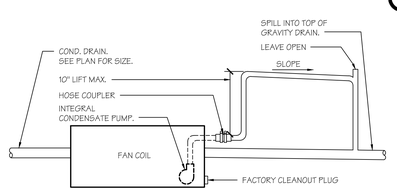
GAS PRESSURE REGULATOR w/ SEISMIC VALVE

SCALE: N.T.S. — E



GAS DIRT LEG DETAIL

SCALE: N.T.S. — F



CONDENSATE DRAIN CONNECTION

SCALE: N.T.S. — G

BASKIN MECHANICAL ENGINEERS
2131 19th St, Suite B
Bakersfield, CA 93301
Tel: (661) 397-2114
Job: 22002
Plt: 03-09-23

AGENCY

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DIV. OF THE STATE ARCHITECT
APP: 03-122536 INC:
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DATE: 03/24/2023

FLEWELLING & MOODY
architecture planning interiors

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Lancaster, California 93534
P:661.949.0771
E-Mail: fm-lancaster@flewelling-moody.com

An Employee Owned Corporation

ARCHITECT

LICENSED ARCHITECT — C-26053 — Ren. Date:08/31/2023 — STATE OF CALIFORNIA

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER — MARK JAMES ROMANOWSKI — No. M26053 — EXP. 9-30-23 — MECHANICAL — STATE OF CALIFORNIA

Drawn by

Checked by

Revisions

No.	Date	Description

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared for a specific site. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Flewelling & Moody.

SOUTHERN KERN UNIFIED SCHOOL DISTRICT
ROSAMOND HIGH SCHOOL
CAFETERIA BUILDING

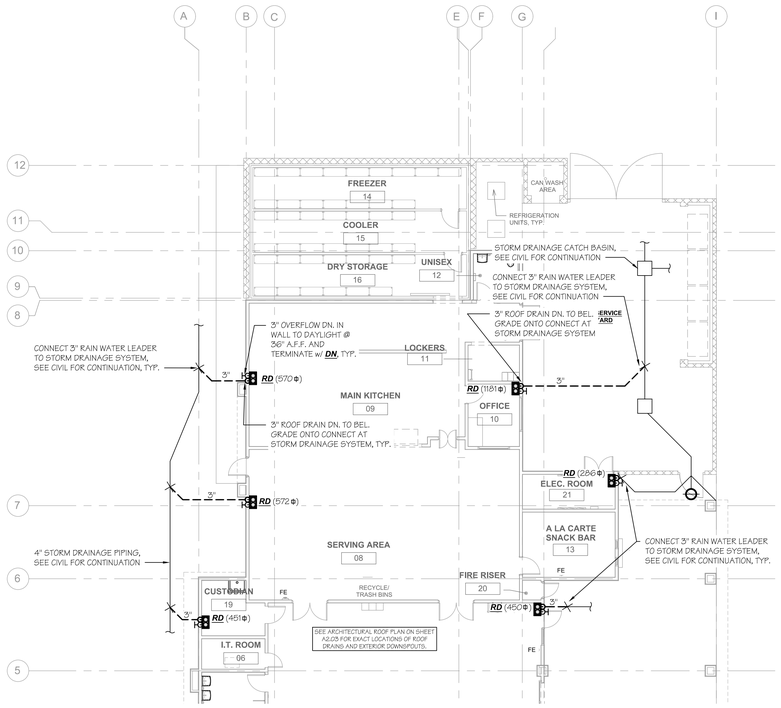
2925 ROSAMOND BLVD.
ROSAMOND, CA 93560

PLUMBING SITE PLAN, SCHEDULE, AND DETAILS

Job No. 2990

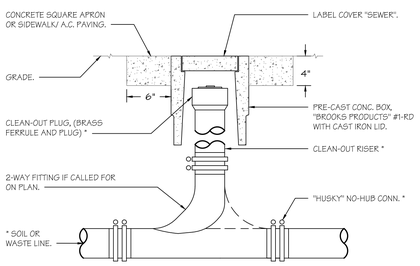
Date 06-07-22

P1.0



PARTIAL PLAN - ROOF DRAINAGE (A)

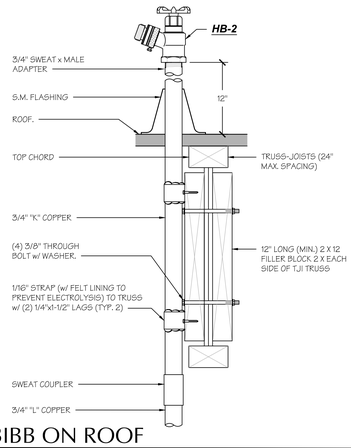
SCALE: 3/32"=1'-0"



CLEAN-OUT TO GRADE (B)

SCALE: N.T.S.

* C.O.T.G. SHOWN 2' OUT FROM BUILDING TO BE 2-WAY IN CAST IRON IF SPEC'S. CALL FOR CAST IRON PIPING. OTHERWISE USE PVC-DWV.



HOSE BIBB ON ROOF (C)

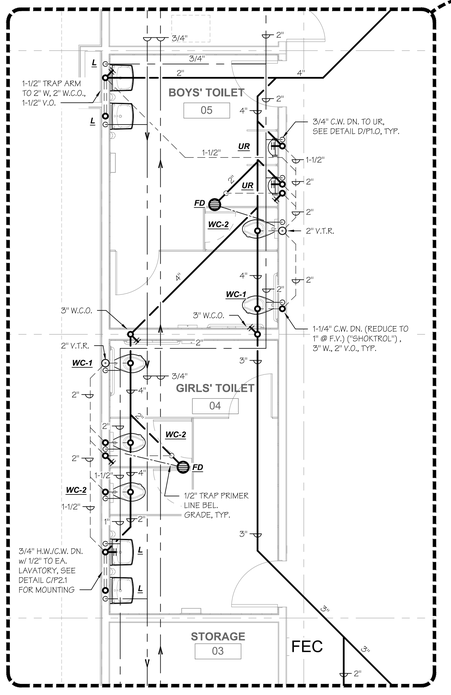
SCALE: N.T.S.

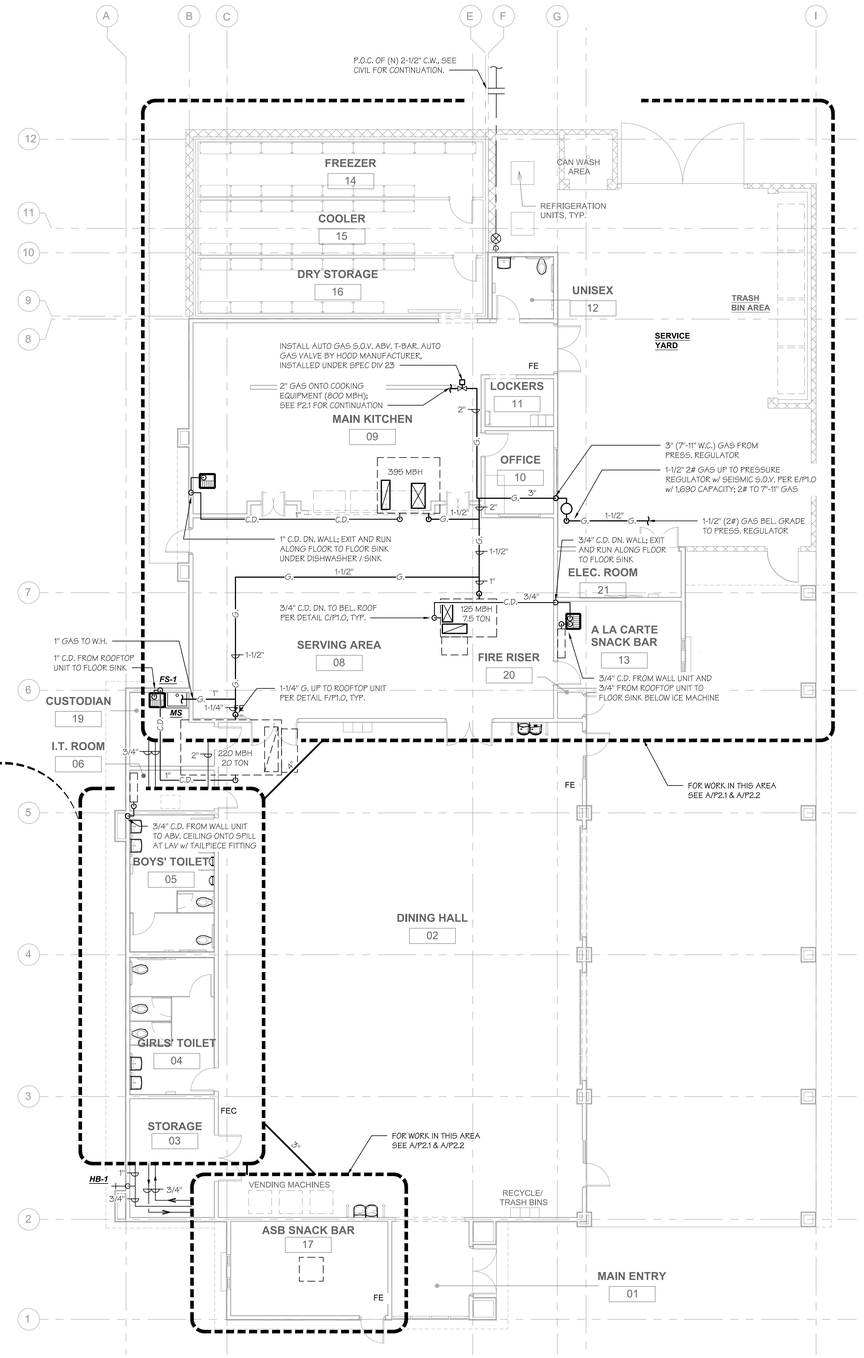
Gas Calc's (7"-11" W.C.) (125'):

1 Tilt/Braising	@	104 MBH = 104
1 Tilt/Steam	@	100 MBH = 100
1 Griddle	@	120 MBH = 120
1 Range	@	286 MBH = 286
1 Double Oven	@	140 MBH = 140
1 Combi Oven	@	106 MBH = 106
1 RTU	@	395 MBH = 395
1 W.H.	@	150 MBH = 150
1 A.C.	@	220 MBH = 220
1 A.C.	@	125 MBH = 125
		TOTAL MBH = 1746

3" G. to start per CPC 2019 Table 1215.2(1)

* Total developed length = 92 FT.





OVERALL PLUMBING PLAN

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

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architecture planning interiors

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P 661.949.0771
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ARCHITECT

LICENSED ARCHITECT C-26053 Ren. Date 08/31/2023 STATE OF CALIFORNIA

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER MARK JAMES BASKIN No. M26053 Exp. 9-30-24 MECHANICAL STATE OF CALIFORNIA

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT
ROSAMOND HIGH SCHOOL

CAFETERIA BUILDING

2925 ROSAMOND BLVD.
ROSAMOND, CA 93560

OVERALL PLUMBING PLAN & ROOF DRAINAGE

Job No. 2990

Date 06-07-22

P2.0

BASKIN MECHANICAL ENGINEERS
2131 19th St, Suite B
Bakersfield, CA 93301
Tel: (661) 397-2114
Job: 22002
Plt: 03-09-23

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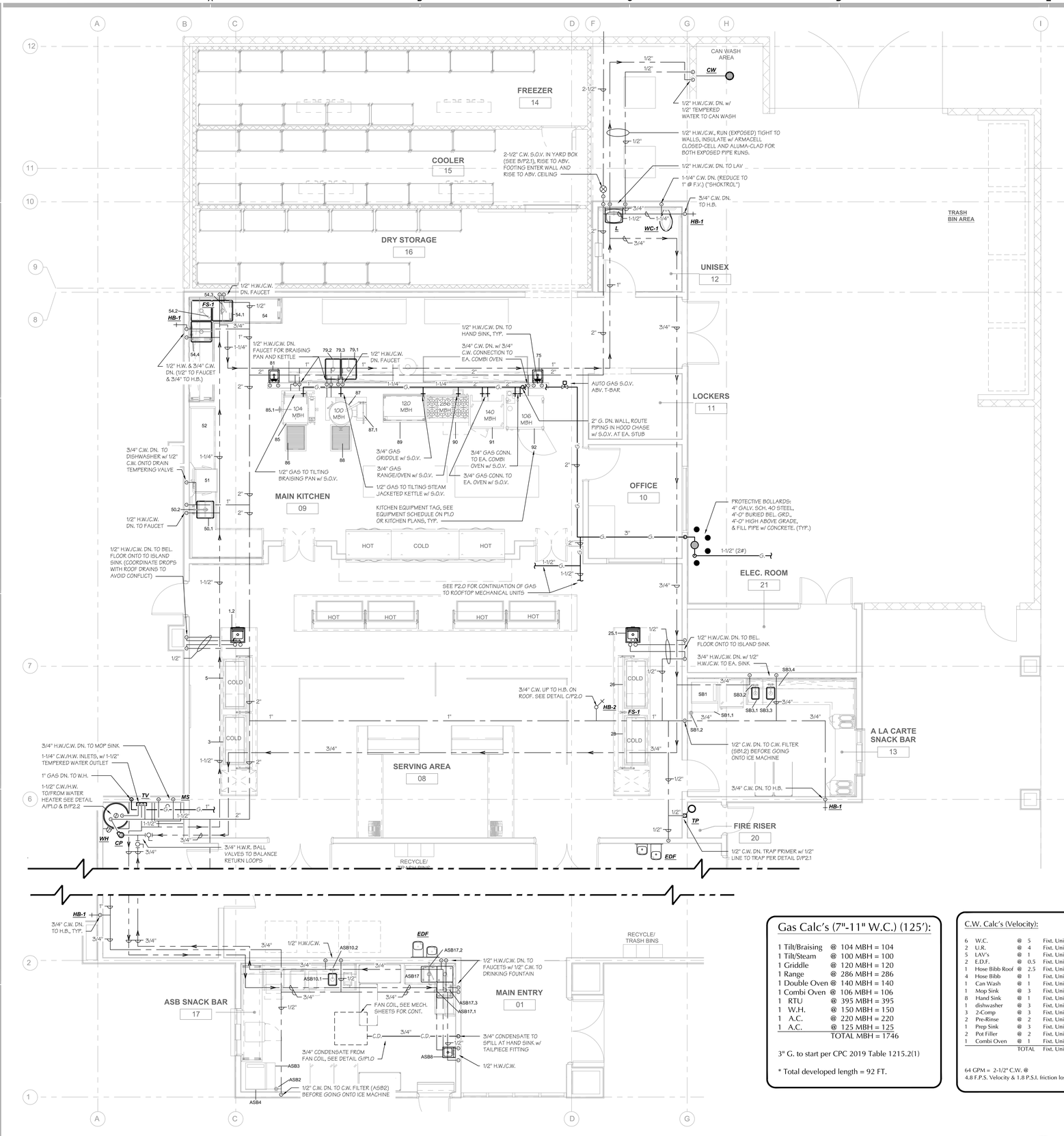
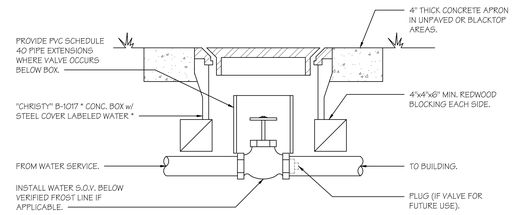


PARTIAL PLUMBING PLAN - WATER & GAS

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

A

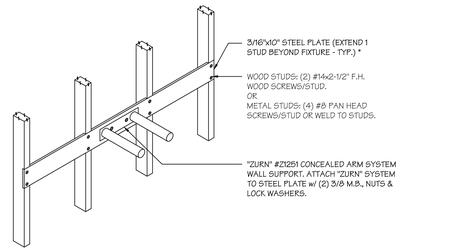


SHUT-OFF VALVE IN YARD BOX

SCALE: N.T.S.

B

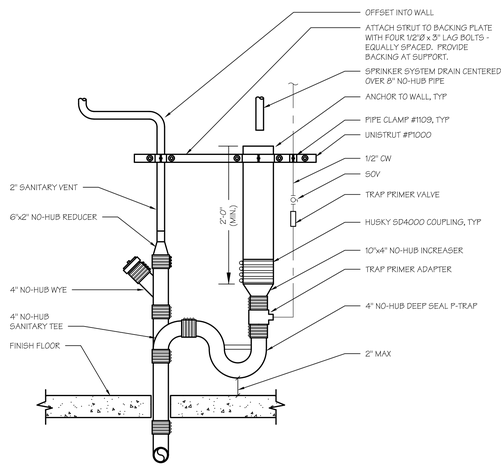
* SIZE BOX FOR REMOVAL OF VALVE & BALL VALVE HANDLE OPERATION.



LAV. MOUNTING

SCALE: N.T.S.

C



FIRE SPRINKLER DRAIN DETAIL

SCALE: N.T.S.

D

Gas Calc's (7"-11" W.C.) (125'):

1	Tilt/Braising	@ 104 MBH = 104
1	Tilt/Steam	@ 100 MBH = 100
1	Griddle	@ 120 MBH = 120
1	Range	@ 286 MBH = 286
1	Double Oven	@ 140 MBH = 140
1	Combi Oven	@ 106 MBH = 106
1	RTU	@ 395 MBH = 395
1	W.H.	@ 150 MBH = 150
1	A.C.	@ 220 MBH = 220
1	A.C.	@ 125 MBH = 125
		TOTAL MBH = 1746

3" G. to start per CPC 2019 Table 1215.2(1)

* Total developed length = 92 FT.

C.W. Calc's (Velocity):

6	W.C.	@	5	Fixt. Units = 30
2	U.R.	@	4	Fixt. Units = 8
5	LAV's	@	1	Fixt. Units = 5
2	E.D.F.	@	0.5	Fixt. Units = 1
1	Hose Bibb Roof	@	2.5	Fixt. Units = 2.5
4	Hose Bibb	@	1	Fixt. Units = 4
1	Can Wash	@	1	Fixt. Units = 1
1	Mop Sink	@	3	Fixt. Units = 3
8	Hand Sink	@	1	Fixt. Units = 8
1	dishwasher	@	3	Fixt. Units = 3
3	2-Comp	@	3	Fixt. Units = 9
2	Pre-Rinse	@	2	Fixt. Units = 4
1	Prep Sink	@	3	Fixt. Units = 3
2	Pot Filler	@	2	Fixt. Units = 4
1	Combi Oven	@	1	Fixt. Units = 1
			TOTAL	Fixt. Units = 86.5

64 GPM = 2-1/2" C.W. @
4.8 F.P.S. Velocity & 1.8 P.S.I. friction loss/100'

H.W. Calc's (Velocity):

5	LAV's	@	1	Fixt. Units = 5
1	Can Wash	@	2.5	Fixt. Units = 2.5
1	Mop Sink	@	3	Fixt. Units = 3
8	Hand Sink	@	1	Fixt. Units = 8
3	2-Comp	@	3	Fixt. Units = 9
2	Pre-Rinse	@	2	Fixt. Units = 4
1	Prep Sink	@	3	Fixt. Units = 3
2	Pot Filler	@	2	Fixt. Units = 4
			TOTAL	Fixt. Units = 38.5

24 GPM = 1-1/2" H.W. @
4.3 F.P.S. Velocity & 2.3 P.S.I. friction loss/100'

H.W. Calc's (Capacity):

1	LAV's	@ 5	GPH = 5
1	Can Wash	@ 10	GPH = 10
1	Mop Sink	@ 15	GPH = 15
8	Hand Sink	@ 5	GPH = 40
3	2-Comp	@ 20	GPH = 60
2	Pre-Rinse	@ 20	GPH = 40
1	Prep Sink	@ 10	GPH = 10
2	Pot Filler	@ 10	GPH = 20
			TOTAL GPH = 200

$\frac{200 \times 60 \times 8.33}{98x3412} = \frac{99,960}{3,343.76}$ = 29.89 kW

$\frac{200 \times 60 \times 8.33}{0.96} = \frac{99,960}{0.96}$ = 104,125 BTUH

$\frac{200 \times 60 \times 8.33}{0.7} = \frac{99,960}{0.7}$ = 142,800 BTUH

BASKIN MECHANICAL ENGINEERS
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AGENCY

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SS ☑ FLS ☑ ACS ☑
DATE: 03/24/2023

FLEWELLING & MOODY
architecture planning interiors

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ARCHITECT

LICENSED ARCHITECT C-26053 Ren. Date 08/31/2023 STATE OF CALIFORNIA

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER JAMES BASKIN No. M26536 Exp. 06-30-24 MECHANICAL STATE OF CALIFORNIA

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT
ROSAMOND HIGH SCHOOL

CAFETERIA BUILDING

2925 ROSAMOND BLVD.
ROSAMOND, CA 93560

PARTIAL PLUMBING PLAN - WATER & GAS

Job No. 2990

Date 06-07-22

P2.1

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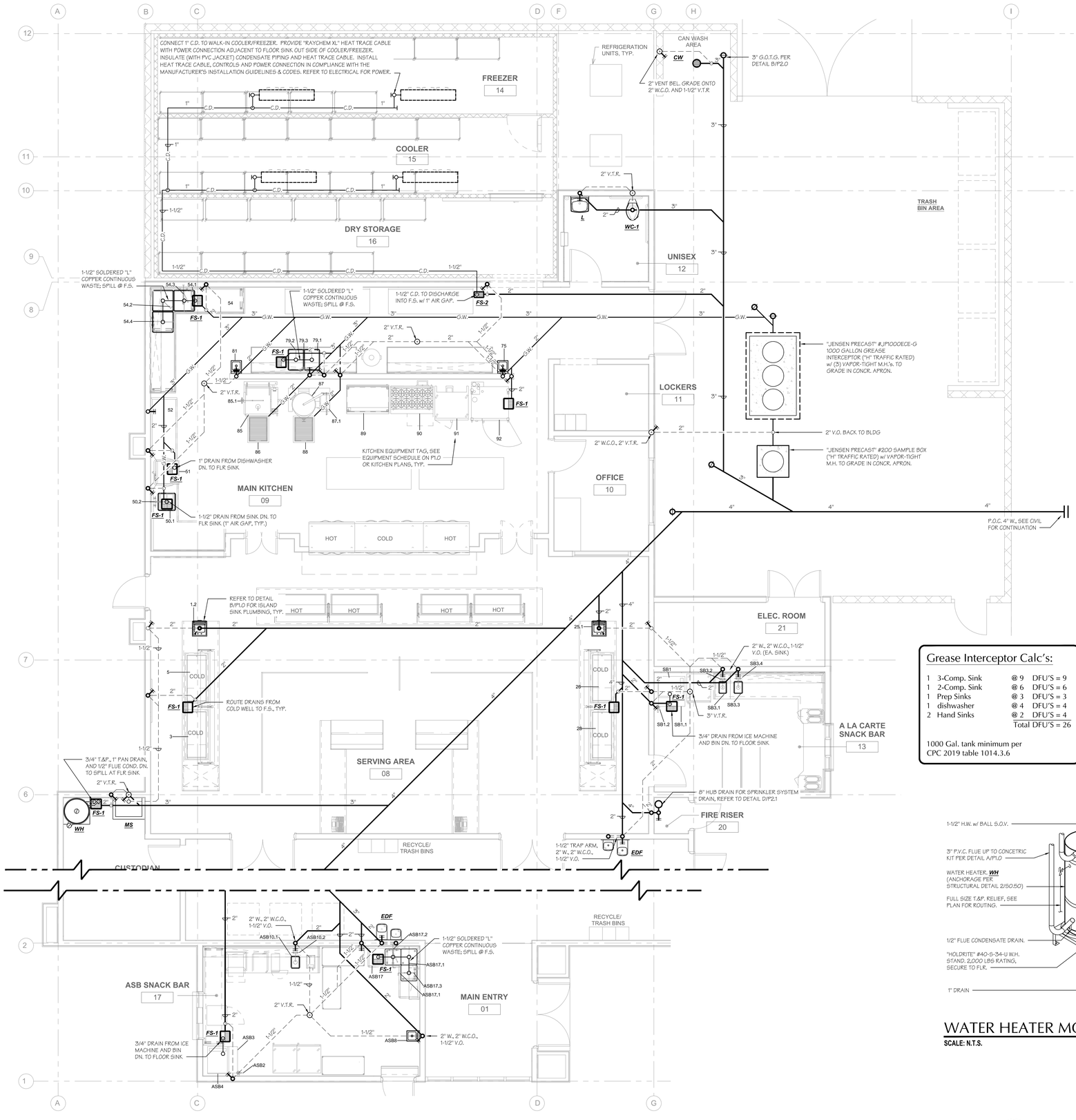


PARTIAL PLUMBING PLAN - WASTE & VENT

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

A

Equipment Anchorage Notes:

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, moveable or mobile equipment which is heavier than 400 pounds or has a center mass located 4 feet or more above the adjacent floor or roof level that directly support the component are 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 have a center of mass located 4 feet or less above the adjacent floor or roof level that directly support the component.
B. Components weighing less than 20 pounds, or in the case of distributed systems, less than 5 pounds per foot, which are suspended from a roof or floor or hung from a wall.

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 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 Section 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 pre-approved 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.

Mechanical Piping (MP), Mechanical Ducts (MD), Plumbing Piping (PP), Electrical Distribution Systems (E):

MP ☐ MD ☐ PP ☐ E ☐ **Option 1:** Detailed on the approved drawings with project specific notes and details

MP ☐ MD ☐ PP ☑ E ☐ **Option 2:** Shall comply with the applicable OSHPD Pre-Approval (OPM#) # OPM 0542 nVent CADDY Seismic Bracing for MEP Systems .

Codes:

California Code of Regulations (C.C.R)

Part 1 - 2019 California Standards Administrative Code, Title 24, C.C.R.
Part 2 - 2019 California Building Code (C.B.C.), Title 24, C.C.R. Volumes 1-2.
Part 3 - 2019 California Electrical Code, Title 24, C.C.R.
Part 4 - 2019 California Mechanical Code (C.M.C.), Title 24, C.C.R.
Part 5 - 2019 California Plumbing Code (C.P.C.), Title 24, C.C.R.
Part 6 - 2019 California Energy Code, Title 24, C.C.R.
Part 9 - 2019 California Fire Code, Title 24, C.C.R.
Part 11- 2019 California Green Building Standards Code. Title-24, C.C.R.

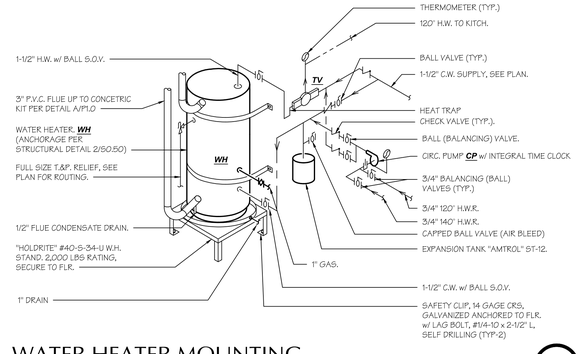
Standards and Guides:

ADAAG - American with Disabilities Act, Accessibility Guidelines.
Fixtures - Plumbing fixtures to comply with table 5.303.6 of the California Green Building Standards - 2019 Edition.

Grease Interceptor Calc's:

1	3-Comp. Sink	@ 9	DFU'S = 9
1	2-Comp. Sink	@ 6	DFU'S = 6
1	Prep Sinks	@ 3	DFU'S = 3
1	dishwasher	@ 4	DFU'S = 4
2	Hand Sinks	@ 2	DFU'S = 4
		Total DFU'S = 26	

1000 Gal. tank minimum per CPC 2019 table 1014.3.6



WATER HEATER MOUNTING

SCALE: N.T.S.

B

BASKIN MECHANICAL ENGINEERS
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ARCHITECT

LICENSED ARCHITECT
C-26053
Ren. Date 08/31/2023
STATE OF CALIFORNIA

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER
No. M26
MECHANICAL
STATE OF CALIFORNIA

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT
ROSAMOND HIGH SCHOOL

CAFETERIA BUILDING

2925 ROSAMOND BLVD.
ROSAMOND, CA 93560

PARTIAL PLUMBING PLAN - WASTE & VENT

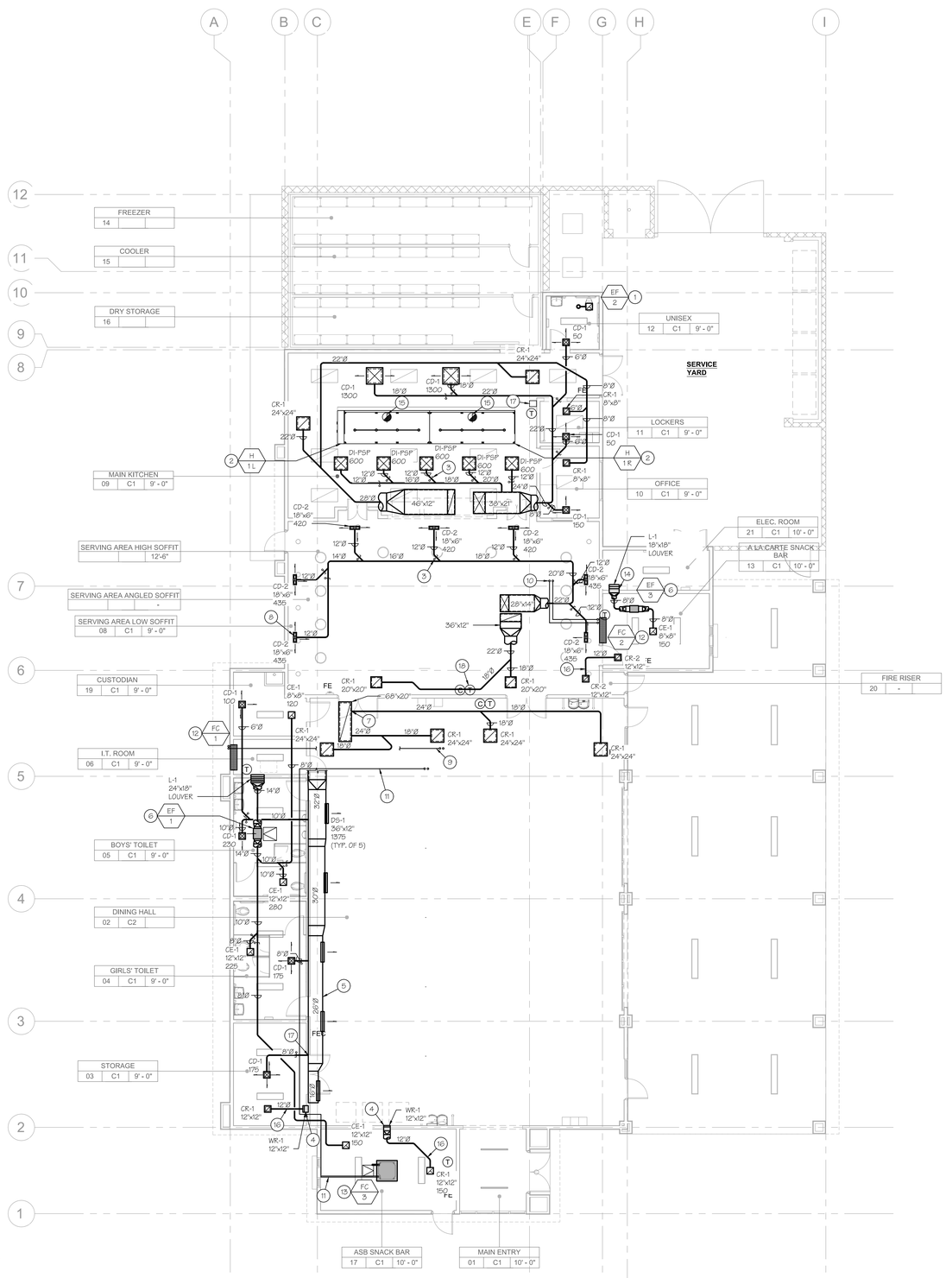
Job No. 2990

Date 06-07-22

P2.2

Air Conditioning Legend

SYMBOL	ABBR.	ITEM	SYMBOL	ABBR.	ITEM
	A.C.	Air Conditioning		H.W.R.	Heating Water Return
	A.D.	Access Door		H.W.S.	Heating Water Supply
	A.F.F.	Above Finished Floor		INT.	Internal
	A.H.	Air Handler		LOC.	Location
	B.A.S.	Building Automation System		M.O.	Motor Operated
	B.V.	Butterfly Valve		(N)	New
	C.D.	Condensate Drain		N.C.	Normally Closed
	C.E.	Ceiling Exhaust Register		N.I.C.	Not in Contract
	C.W.R.	Condensor Water Return		N.O.	Normally Open
	C.W.S.	Condensor Water Supply		O.S.A.	Outside Air
	C.H.W.R.	Chilled/Hot Water Return		O.B.D.	Opposed Blade Damper
	C.H.W.S.	Chilled/Hot Water Supply		P.O.C.	Point of Connection
	COMB.	Combustion		P.P.	Potes Plug
	CONN.	Connection		PROV.	Provide
	CONT.	Continuation		P.R.V.	Pressure Reducing Valve
	C.R.	Ceiling Return Register		SIM.	Similar
	C.LG.	Ceiling	S.F.D.	S.F.D.	Smoke / Fire Damper w/ access panel
	C.S.	Ceiling Supply Register		S.M. or S/M	Sheet Metal
	C.V.	Check Valve		S.O.V.	Shut Off Valve
	D.C.W.	Domestic Cold Water		S.P.S.T.	Single Pole Single Throw
	DIA.	Diameter		STAT.	Thermostat or Room Sensor
	D.L.	Door Louver		SURF.	Surface
	DN.	Down		(TYP)	Typical
	D.P.D.T.	Double Pole Double Throw		U.G.	Underground
	D.T.R.	Duct Thru Roof		U.N.O.	Unless Noted Otherwise
	(E)	Existing		V.D.	Volume Damper
	E.F.	Exhaust Fan		V.D.	Vol. Damper w/ Remote Operator
	E.M.S.	Energy Management System		W/	With
	EX.	Exhaust		W.R.	Wall Return Register
F.D.	F.D.	Fire Damper w/ acc. panel		W.S.	Wall Supply Register
	Flex. Conn	Flexible Connection			Duct w/ Acoustic Lining
	FLR.	Floor		T.V.	Turning Vanes
	F.T.R.	Flue Thru Roof			Extractor
	Furn.	Furnace			
	GA.	Gauge			
	GAL.	Gallon			
	GALV.	Galvanized		CO2	CO2 SENSOR
	G.P.M.	Gallons per Minute			Union
	GRD.	Grade			Reducer or Increaser
	G.V.	Gate Valve			



MECHANICAL PLAN

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

MECHANICAL KEY NOTES:

1. Ceiling Exhaust Fan w/ Full Size Discharge to Roof Cup.
2. Kitchen Exhaust hood see sheets M5.01 through M5.08.
3. See typical Branch Duct detail D/M4.01, Where dampers are located above gyp. board ceiling or other inaccessible location, provide damper w/Beldon cable & ceiling mtd. actuator, young regulator or equal.
4. Mount WR-1 w/ ℄ at 12'-0" A.F.F.
5. Mount ℄ of Duct at 15'-0" A.F.F.
6. Inline Exhaust Fan see mounting detail A/M4.00. Provide 24"x24" access panel, coordinate w/contractor.
7. See Typ. Duct Tap detail J/M4.01
8. See Typ. Grille connection H/M4.01.
9. 5/8" RS & 3/8" RL insulated refrigerant piping. Route from FC-1 to HP-1 on roof.
10. 5/8" RS & 3/8" RL insulated refrigerant piping. Route from FC-2 to HP-2 on roof.
11. 5/8" RS & 3/8" RL insulated refrigerant piping. Route from FC-3 to HP-3 on roof.
12. Wall mounted Fan Coil, see detail L/M4.01
13. Ceiling Cassette Fan Coil, see detail F/M4.01, Provide 20"x20" access panel coordinate w/contractor.
14. Louver located in wall above roof of Elect. Room
15. 18"Ø ETL Listed to U.L.-1978 grease duct furnished by Captive Aire see specifications on sheet M5.01
16. Acoustical flex transfer duct
17. Kitchen hood fire suppression pull station & hood temperature sensor see sheets M5.06 & M5.07
18. T-STAT/CO2 sensor, See typical detail E/M4.01

TITLE 24 MECHANICAL & PLUMBING REQUIREMENTS (CODE REFERENCES ARE TO 2019 BUILDING ENERGY EFFICIENCY STANDARDS):

1. All air cooled HVAC units shall have minimum efficiencies per Table 110.2-A.
2. All furnaces shall have minimum efficiencies per Table 110.2-I.
3. All furnaces shall have stand by loss controls per section 110.2 (d).
4. All thermostats shall comply with 110 (b) or (c), as applicable.
5. All HVAC systems shall have outside (ventilation) air per 120.1 (b) 2. Also see mechanical plans for minimum outside air settings. Refer to table on plan.
6. When CO2 ventilation demand controls are specified, provide in accordance with 120.1 C. 4.
7. Minimum ventilation rates shall be initiated one hour prior to scheduled occupancy per 120.1 (c) 2.
8. Each HVAC system shall have shut-off and reset controls complying with 120.2 (e).
9. All outside and exhaust dampers shall automatically close per 120.2 (f).
10. All systems greater than a nominal 54 MBH cooling capacity shall have economizers equipped with fault detection and diagnostics per 120.2 (i).
11. All ductwork insulation shall comply with 120.4.
12. Set up all thermostats with a dead band of no less than three degrees to prevent cycling between heating and cooling.
13. Acceptance tests required prior to granting occupancy. NA refers to Non Residential appendices:
    - Outdoor air ventilation systems per NA 7.5.1.
    - Constant volume single zone system controls per NA 7.5.2.
    - Air economizers per NA 7.5.4.
    - Demand control (CO2) controls, when required, per NA 7.5.5.
    - Fault Detection & diagnostics (FDD) per NA 7.5.11.

Equipment Anchorage Notes:

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

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 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 Section 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 pre-approved 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.

Mechanical Piping (MP), Mechanical Ducts (MD), Plumbing Piping (PP), Electrical Distribution Systems (E):

MP ☐ MD ☑ PP ☐ E ☐ **Option 1:** Detailed on the approved drawings with project specific notes and details

MP ☐ MD ☐ PP ☐ E ☐ **Option 2:** Shall comply with the applicable OSHPD Pre-Approval (OPM#) _____.

Codes:

California Code of Regulations (C.C.R)
Part 1 - 2022 California Standards Administrative Code, Title 24, C.C.R.
Part 2 - 2019 California Building Code (C.B.C.), Title 24, C.C.R. Volumes 1-3.
Part 3 - 2019 California Electrical Code, Title 24, C.C.R.
Part 4 - 2019 California Mechanical Code (C.M.C.), Title 24, C.C.R.
Part 5 - 2019 California Plumbing Code (C.P.C.), Title 24, C.C.R.
Part 6 - 2019 California Energy Code, Title 24, C.C.R.
Part 9 - 2019 California Fire Code, Title 24, C.C.R.

Standards and Guides:

ADAAG - American with Disabilities Act, Accessibility Guidelines.
Fixtures - Plumbing fixtures to comply with table 5.303.6 of the California Green Building Standards - 2019 Edition.

DIFFUSER SIZING CHART

CFM	TITUS TDC, SQUARE NECK
0 - 150	6" x 6"
151 - 275	9" x 9"
276 - 475	12" x 12"
476 - 700	15" x 15"
701 - 950	18" x 18"
951 - 1250	21" x 21"
1251 - 1700	24" x 24"
1701 - 2500	30" x 30"

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Plt: 11-03-22

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CONSULTANT

REGISTERED PROFESSIONAL ENGINEER MARK JAMES BASKIN No. M26577 EXP. 09-30-24 MECHANICAL STATE OF CALIFORNIA

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT
ROSAMOND HIGH SCHOOL

CAFETERIA BUILDING

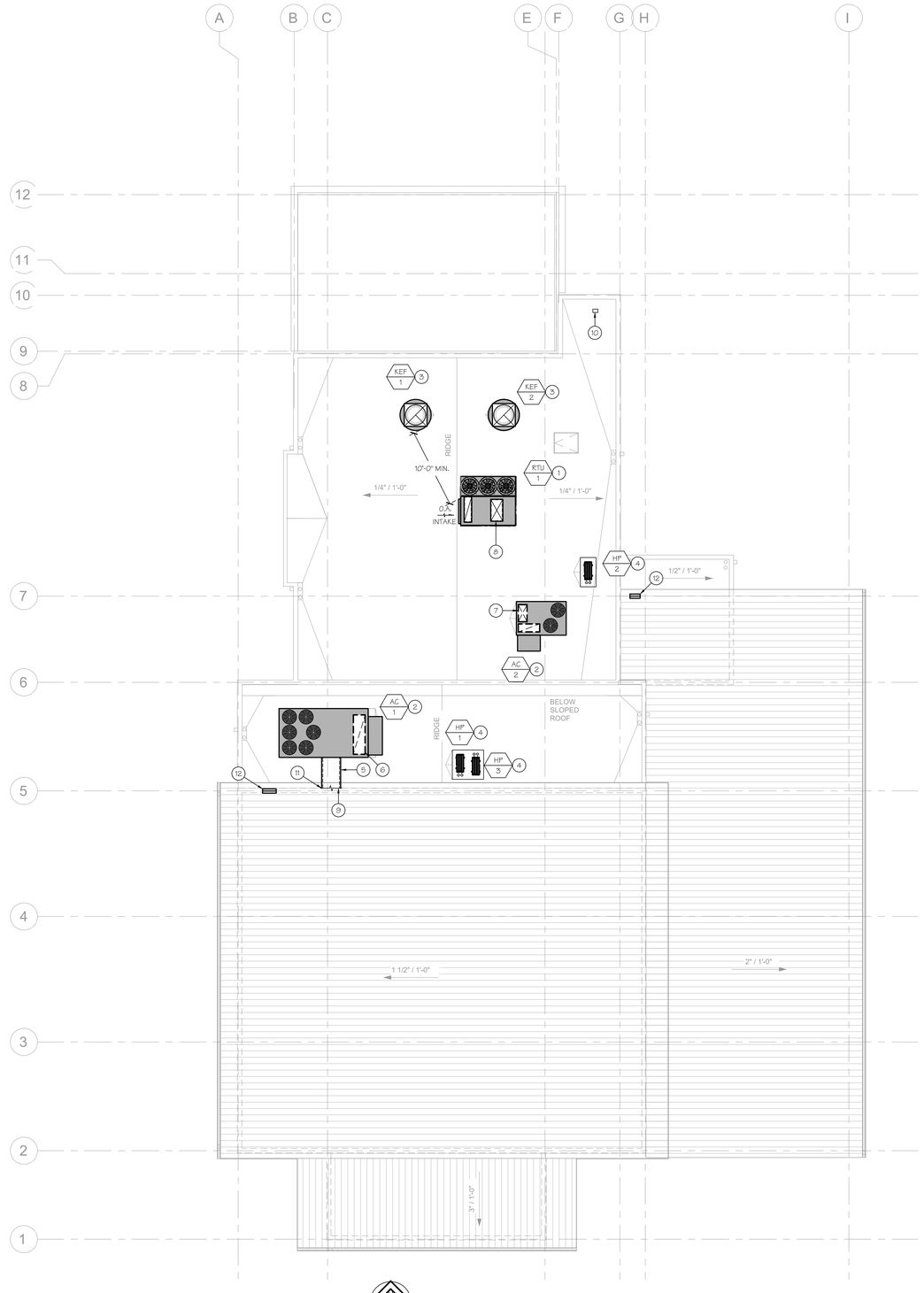
2925 ROSAMOND BLVD.
ROSAMOND, CA 93560

OVERALL MECHANICAL PLAN

Job No. 2990

Date 06-07-22

M2.00



MECHANICAL ROOF PLAN

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

PACKAGE UNITS OUTDOOR AIR SETTINGS		
UNIT TAG	MIN OSA	MAX OSA
AC-1	485	1605
AC-2	190	635
RTU-1	300	8550

MECHANICAL KEY NOTES:

1. RTU/Make Up Air Unit see details on M-5.04.
2. Package unit see detail A/M4.01.
3. Kitchen Exhaust Fan see sheet M5.04 & detail B/M4.01.
4. Heat Pump see detail C/M4.01.
5. 30"x26" S.A. w/ 2" liner, dimensions are net inside.
6. 68"x20" R.A. w/ 2" liner, dimensions are net inside.
7. 28"x14" S.A. & 36"x12" R.A. duct drop w/ 1" liner.
8. 38"x21" S.A. & 46"x12" R.A. duct drop w/ 1" liner.
9. See sheet M2.00 for continuation.
10. Ex. fan roof cap location
11. Flash, caulk, and seal at sidewall duct penetration
12. L-1, exhaust louver in side wall, see M2.00 for size

AGENCY

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122536 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/24/2023

FLEWELLING & MOODY
architecture planning interiors

HEADQUARTERS OFFICE:
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ANTELOPE VALLEY OFFICE:
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ARCHITECT

LICENSED ARCHITECT
C-26053
Ren. Date 08/31/2023
STATE OF CALIFORNIA

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER
MARK JAMES MOODY
No. M26053
06-30-23
MECHANICAL
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Revisions

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All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared for a specific site. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Flewelling & Moody.

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MECHANICAL ROOF PLAN

BASKIN MECHANICAL ENGINEERS
2131 19th St, Suite B
Bakersfield, CA 93301
Tel: (661) 397-2114
Job: 22002
Plt: 11-03-22

Job No.
2990

Date
06-07-22

M3.00

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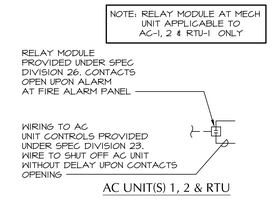
EXHAUST FAN SCHEDULE

DESIGNATION	EF-1	EF-2	EF-3	KEF-1	KEF-2
CFM	775	75	150		
EXT. S.P (IN. WC)	0.30	0.30	0.30		
BHP/HP/WATTS	0.12 / 0.16 / --	-- / -- / 14	0.02 / 0.07 / --		
VOLTS/ PHASE	115 / 1	115 / 1	115/1		
RPM	1,685	880	1,446	SEE CAPTIVE	SEE CAPTIVE
SONES (dBA)	8.9	0.4	3.8	AIRE SHEET	AIRE SHEET
DRIVE	DIRECT	DIRECT	DIRECT	M5.02	M5.02
MOUNTING	ATTIC	CEILING	ATTIC		
MANUFACTURER	GREENHECK	GREENHECK	GREENHECK		
TYPE	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL		
MODEL NUMBER	SQ-95-VG	SP-A90	SQ-70-VG		
OPER. WT. (LBS)	51	14	32		
START/STOP INTERLOCK WITH	SEE NOTE 7	SEE NOTE 4	SEE NOTE 7		
ACCESSORIES	1, 5, 6	2, 3, 4	1, 5, 6		

1. NEMA-1 TOGGLE MOUNTED AND WIRED SWITCH.
2. DESIGNER GRILLE, INTEGRAL BACK DRAFT DAMPER
3. ENERGY STAR RATED, RATED FOR CONTINUOUS USE
4. INTERLOCK WITH OCCUPANCY SENSOR W/15 MIN. OFF DELAY, COORDINATE WITH ELECTRICAL
5. GALV. STEEL HOUSING
6. ECM MOTOR W/VARI-GREEN SPEED CONTROL
7. INTERLOCK START/STOP WITH EMS SYSTEM

NOTE: RELAY MODULE AT MECH UNIT APPLICABLE TO AC-1, 2 & RTU-1 ONLY



AC UNIT(S) 1, 2 & RTU

MECH UNIT INTERLOCKS WITH FIRE ALARM PANEL (B)

SCALE: N.T.S.

FAN COIL SCHEDULE

DESIGNATION	FC-1	FC-2	FC-3
SUPPLY AIR (CFM)	415	415	875
EXT. SP (IN WC)	-	-	-
MIN. O.S.A. (CFM)	0	0	0
SENSIBLE COOLING (MBH)	17.1	17.1	15.1
TOTAL COOLING (MBH)	23.6	23.6	19.8
HEATING (MBH)	31.5	31.5	31.9
EADB / EAWB / AMBIENT (°F)	80 / 67 / 95	80 / 67 / 95	80 / 67 / 95
M.C.A.	0.63	0.63	0.33
VOLTS/PHASE	208 - 230 / 1	208 - 230 / 1	208 - 230 / 1
MANUFACTURER	CARRIER	CARRIER	CARRIER
MODEL NUMBER	40MAHBQ24	40MAHBQ24	40MBCQ24
CONNECTED HEAT PUMP	HP-1	HP-2	HP-3
OPER. WT (LBS)	44	44	58
ACCESSORIES	1, 2, 4	1, 2, 4	1 THRU 4

1. PROVIDE AUTANI TITLE 24 COMPLIANT PROGRAMMABLE THERMOSTAT
2. SINGLE POINT POWER CONNECTION. INDOOR UNIT POWERED BY OUTDOOR UNIT.
3. BUILT-IN CONDENSATE LIFT PUMP
4. 24V INTERFACE KIT

OUTDOOR UNIT SCHEDULE

DESIGNATION	HP-1	HP-2	HP-3
MINIMUM CIRCUIT AMPACITY	25.0	25.0	25.0
M.O.C.P.	35.0	35.0	35.0
VOLTS / PHASE	208 - 230 / 1	208 - 230 / 1	208 - 230 / 1
ARI COOLING CAPACITY (MBH)	24.0	24.0	24.0
SEER / EER (see note 8.)	21.5 / 13.0	21.5 / 13.0	20 / 11
ARI HEATING CAPACITY (MBH)	31.5	31.5	31.9
HSPF	12.00	12.00	11.60
MANUFACTURER	CARRIER	CARRIER	CARRIER
TYPE	HEAT PUMP	HEAT PUMP	HEAT PUMP
MODEL NUMBER	38MARBQ24	38MARBQ24	38MARBQ24
LOCATION	ROOF	ROOF	ROOF
OPER. WT (LBS)	135	135	135
ACCESSORIES	1 THRU 4	1 THRU 4	1 THRU 4

1. INSULATED SUCTION AND LIQUID LINE SET.
2. AUTO RESTART UPON POWER FAILURE.
3. ANTI SHORT CYCLE TIMER.
4. EXTEND CONTROL WIRING TO INDOOR UNIT.

PACKAGE AIR CONDITIONING SCHEDULE

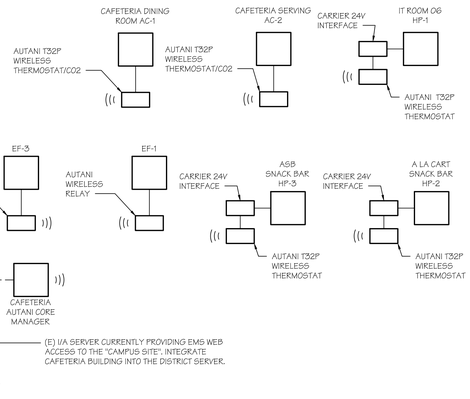
DESIGNATION	AC-1 (A/M4.01)	AC-2 (A/M4.01)	RTU-1 (M5.04)
VOLTS/PHASE	460 / 3	460 / 3	
MCA/MOCP (AMPS)	63.8 / 80	19 / 25	
SEER/IEER @ ARI	-- / 17.1	-- / 15.0	
ECONOMIZER			
HP	4.0	1.0	
FLA	10.5	2.8	
MCA/MOCP	13.1 / 23.6	3.5 / 6.3	
BLOWER			
SUPPLY AIR (CFM)	5280 - 8000 STAGED	1980 - 3000 STAGED	
EXT. S.P (IN. WC)	0.80	0.80	SEE CAPTIVEAIRE
MIN. O.S.A. (CFM)	SEE PLANS	SEE PLANS	SHEET M5.02
HP/BHP	15.0 / 10.26	2.0 / 1.71	
RPM	1053	1664	
DRIVE	BELT	DIRECT	
COOLING			
SENSIBLE (MBH)	187.7	63.0	
TOTAL (MBH)	240.5	84.5	
EADB/EAWB (0F)	80 / 67	80 / 67	
AMBIENT AIR (0F)	95	95	
HEATING			
INPUT CAPACITY (MBH)	220.0	125.0	
OUTPUT CAPACITY (MBH)	178.0	103.0	
FUEL	NAT. GAS	NAT. GAS	
AFUE (%)	81	82	
FILTER			
QUANTITY/SIZE (RETURN)	9 / 16"x25"x2"	4 / 16"x20"x2"	
TYPE	MERV 13	MERV 13	
(OUTDOOR)			
TYPE	CLEANABLE	CLEANABLE	
MANUFACTURER	CARRIER	CARRIER	
TYPE	GAS/ELECTRIC	GAS/ELECTRIC	
MODEL NUMBER	48LCD024	48FCDM08	
LOCATION	ROOF	ROOF	
OPER. WT (LBS)	3338	1137	
ACCESSORIES	1 THRU 15	1 THRU 15	

1. INTEGRATED ECONOMIZER WITH DRY BULB CONTROLS AND POWERED EXHAUST, PROVIDE SEPARATE DISCONNECT FOR POWERED EXHAUST MODULE
2. WALL MOUNTED AUTANI WIRELESS C02 SENSOR AND ASSOCIATED IAQ CONTROLS PACKAGE TO OVERRIDE ECONOMIZER FUNCTION FOR DEMAND CONTROL VENTILATION.
3. MINIMUM 16 GAUGE FULLY WELDED ROOF CURB 14" MAX. HEIGHT ON SHORT SIDE(CONFIRM ROOF PITCH BEFORE ORDERING).
4. HINGED ACCESS DOORS WITH 1/4 TURN LATCHES AND TIEBACKS.
5. INTERNAL HIGH AND LOW PRESSURE COMPRESSOR PROTECTION.
6. TXV REFRIGERANT METERING DEVICE ON EACH CIRCUIT.
7. HAIL GUARDS, FLUE DEFLECTOR EXTENSION KIT, CUT LEVEL W/TOP OF PARAPET
8. TIME GUARD II ANTI-RECYCLE KIT.
9. ECONOMIZERS SHALL MEET ALL REQUIREMENTS PER T24, 2019 ENERGY EFFICIENCY STANDARDS, 140.4. (e).
10. ECONOMIZERS FOR UNITS LARGER THAN FOUR TON SHALL HAVE FACTORY FAULT DETECTION AND DIAGNOSTICS (FDD) PER 2019 ENERGY EFFICIENCY STANDARDS, 120.2 (I)
11. STAGED AIR VOLUME SYSTEM WITH MEDIUM STATIC BELT DRIVE MOTOR W/VFD AND DISPLAY KIT. FIELD COMMISSION FUNCTION OF STAGED AIR VOLUME CONTROLLER.
12. FACTORY START-UP.
13. FIELD COMMISSION OUTSIDE AIR DAMPER TO STAGE ACCORDING TO SUPPLY FAN VFD AS REQUIRED TO COMPENSATE FOR SUPPLY FAN VARIABLE AIRFLOW.
14. SEE DETAIL B/M4.00 FOR AUTOMATIC SHUT DOWN PER CMC 608.0
15. PROVIDE WITH AUTANI T32P WIRELESS PROGRAMMABLE THERMOSTAT TO MATCH (E) SITE EMS SYSTEM

GRILLE SCHEDULE

MARK	DUTY	DESCRIPTION
CD-1	CEILING SUPPLY	TITUS MODEL TDC LOUVERED FACE DIFFUSER WITH FOR SURFACE MOUNT, SEE DIFFUSER SIZING CHART FOR NECK SIZE.
CD-2	CEILING SUPPLY	TITUS MODEL TDC LOUVERED FACE DIFFUSER WITH FOR SURFACE MOUNT, E3 BLOW PATTERN, SEE DIFFUSER SIZING CHART FOR NECK SIZE.
DI-PSP	CEILING SUPPLY	SEE CAPTIVEAIRE SHEET M5.04
CR-1	CEILING RETURN	TITUS 350ZRL W/0" DEFLECTION , NO. 26 OFF-WHITE FINISH, SURFACE MOUNT FRAME
CE-1 WT-1 CR-2	CEILING EXHAUST WALL TRANSFER CEILING RETURN	TITUS 300ZRL HEAVY DUTY GRILLE WITH SURFACE MOUNT FRAME, 0 DEGREE DEFLECTION, 16 GA BORDER, 14 GA. FRAME, O.B.D.
DS-1	DUCT SUPPLY	TITUS S300FL DUCT MOUNTED DDOUBLE DEFLEXION w/AIR EXTRACTOR
L-1	LOUVER	RUSKIN ELF6375X, PRIMED COAT FINISH, INTEGRAL MOUNTING FLANGE, BIRD SCREEN SEE PLANS FOR SIZE

NOTE: PAINT ALL VISIBLE SURFACES BEHIND DIFFUSERS AND GRILLES FLAT BLACK.

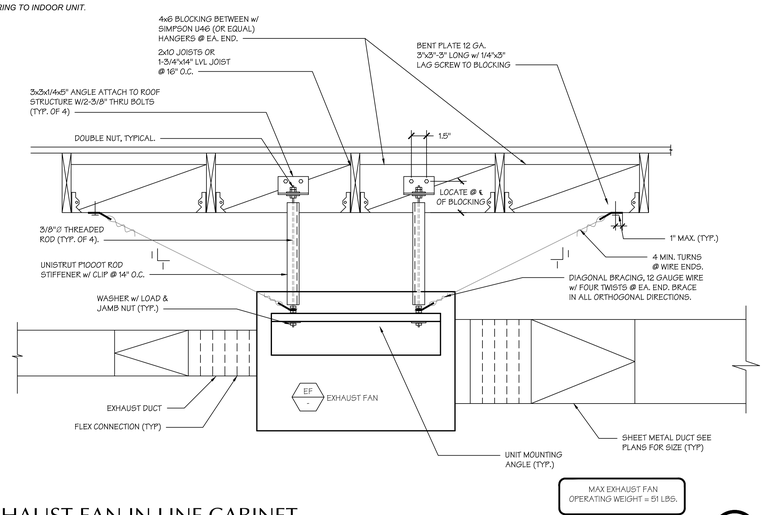


Notes:

1. Architecture shown is generic in nature. Contractor to provide all necessary components required for complete operational system.
2. All IP addresses assigned to the main site controller shall be furnished by the District I.T. Department. Control contractor shall be responsible for routing his Ethernet connection to the nearest Intermediate Data Frame control closet as specified by the I.T. Department.
3. Mechanical contractor to contact Mike Domokos @ Forman and Associates at (949)212-8639 for technical and commissioning and integrating new system into the Districts existing system.

EMS ARCHITECTURE (C)

SCALE: N.T.S.



EXHAUST FAN IN LINE CABINET (A)

SCALE: N.T.S.

BASKIN MECHANICAL ENGINEERS
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C-26053
Ren. Date 08/31/2023
STATE OF CALIFORNIA

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER
MARK JAMES ROSSITER
No. M26
EXP. 9-30-24
MECHANICAL
STATE OF CALIFORNIA

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ROSAMOND HIGH SCHOOL
CAFETERIA BUILDING
2925 ROSAMOND BLVD.
ROSAMOND, CA 93560

MECHANICAL SCHEDULES

Job No. 2990

Date 06-07-22

M4.00

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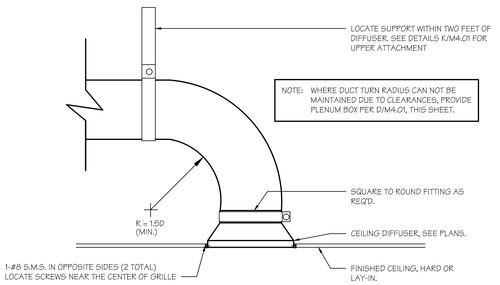
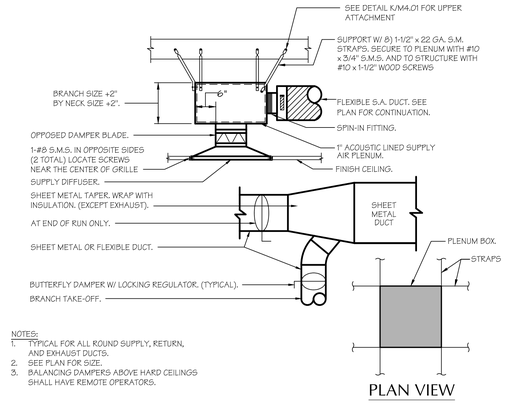


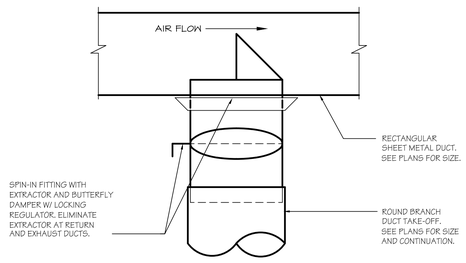
CEILING DIFFUSER/REGISTER CONN. H

SCALE: NTS



SUPPLY AIR PLENUM AND BRANCH DUCTS D

SCALE: NTS



SPIN-IN TAKE OFF J

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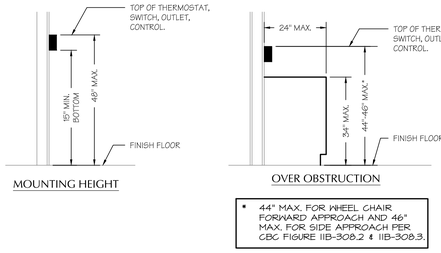
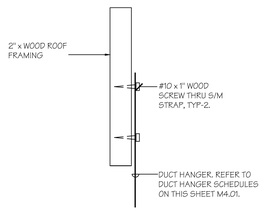


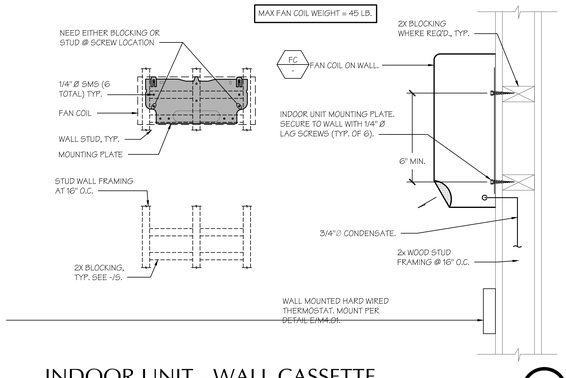
THERMOSTAT & CO2 SENSOR LOCATION DETAIL E

SCALE: NTS



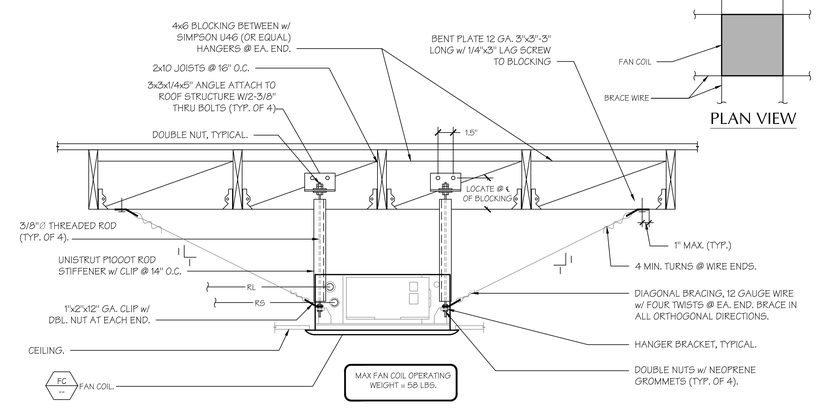
DUCT HANGER - CONNECTION TO STRUCTURE K

SCALE: N.T.S.



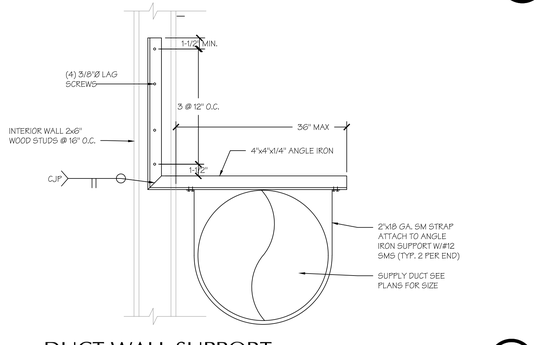
INDOOR UNIT - WALL CASSETTE L

SCALE: N.T.S.



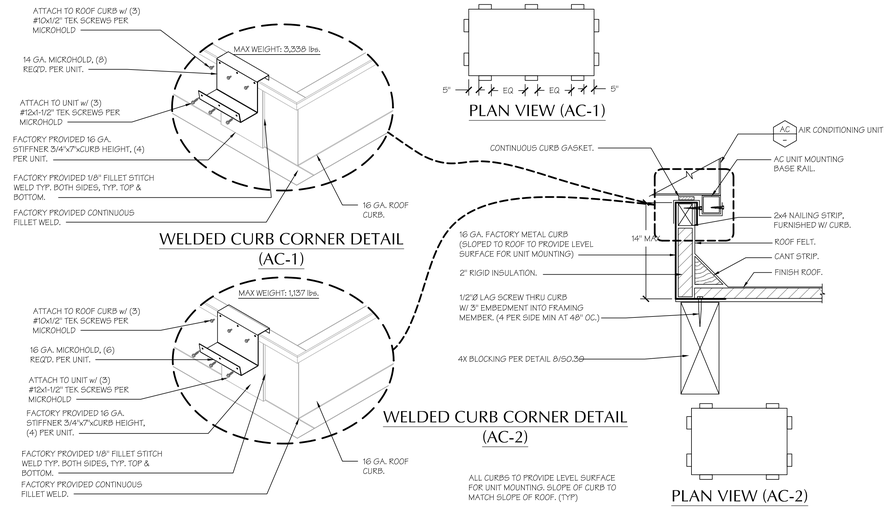
CEILING CASSETTE FAN COIL F

SCALE: N.T.S.



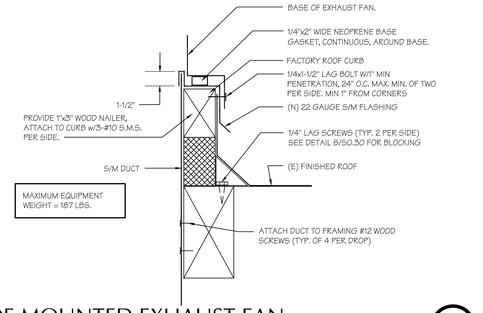
DUCT WALL SUPPORT G

SCALE: N.T.S.



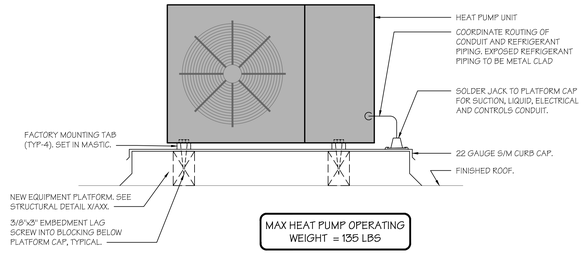
AIR CONDITIONING UNIT ON ROOF AC-1 & AC-2 A

NO SCALE



ROOF MOUNTED EXHAUST FAN B

SCALE: NTS



HEAT PUMP UNIT - ROOF MOUNTED C

SCALE: N.T.S.

RECTANGULAR DUCT HANGERS

Maximum Half of Duct perimeter	*Pair at 10 ft Spacing*	*Pair at 8 ft Spacing*	*Pair at 5 ft Spacing*	*Pair at 4 ft Spacing*
	Strap	*Strap*	*Strap*	*Strap*
P/2 = 30"	*1" x 22 ga*	*1" x 22 ga*	*1" x 22 ga*	*1" x 22 ga*
P/2 = 72"	*1" x 18 ga*	*1" x 20 ga*	*1" x 22 ga*	*1" x 22 ga*

NOTES:

A. STRAPS ARE GALVANIZED STEEL; OTHER MATERIALS ARE UNCOATED STEEL.

B. 12,10, OR 8 GA WIRE IS STEEL OF BLACK ANNEALED, BRIGHT BASIC, OR GALVANIZED TYPE.

ROUND DUCT HANGERS

RIGID DUCT

10 in. dn	*12 ft.*	*1 in. x 22 ga*
11-18 in.	*12 ft.*	*1 in. x 22 ga*
19-24 in.	*12 ft.*	*1 in. x 22 ga*
25-36 in.	*12 ft.*	*1 in. x 20 ga*

NOTES:

A. STRAPS ARE GALVANIZED STEEL;

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REGISTERED ARCHITECT C-26053 Ren. Date 08/31/2023 STATE OF CALIFORNIA

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER MARK JAMES BASKIN No. M26536 Exp. 9-30-24 MECHANICAL STATE OF CALIFORNIA

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MECHANICAL DETAILS

Job No. 2990

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M4.01

FOR QUESTIONS, CALL THE
Central CA
REGION 91
PHONE: (415) 956-2200
EMAIL: reg91@captiveaire.com

PATENT NUMBERS

EXHAUST HOODS ND-2/BD-2/SND-2 (CANADA) - CA PATENT 2520435 C.

HOOD INFORMATION - JOB#5633112

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	MIN CFM	EXHAUST PLENUM RISER(S)							HOOD CONSTRUCTION	HOOD CONFIG	
											WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP		END TO END	ROW
1	H1 - LEFT	6024 ND-2	CAPTIVEAIRE	12' 11"	600 DEG	I	HEAVY	226	2925	2340			4"	16"	2925	1655	-0.905"	430 SS 100%	LEFT	ALONE
2	H1 - RIGHT	6024 ND-2	CAPTIVEAIRE	12' 11"	600 DEG	I	HEAVY	225	2906	2325			4"	16"	2906	1644	-0.883"	430 SS 100%	RIGHT	ALONE

HOOD INFORMATION

HOOD NO	TAG	FILTER(S)					LIGHT(S)			UTILITY CABINET(S)			FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
		TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE	FIRE SYSTEM TYPE	FIRE SYSTEM SIZE		
1	H1 - LEFT	CAPTRATE SOLO FILTER	9	20"	16"	85% SEE FILTER SPEC	4	RECESSED ROUND	NO	LEFT	12"x60"x24"	TANK FS	4.0/4.0/4.0	YES	1020 LBS
2	H1 - RIGHT	CAPTRATE SOLO FILTER	9	20"	16"	85% SEE FILTER SPEC	4	RECESSED ROUND	NO					YES	632 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1	H1 - LEFT	FIELD WRAPPER 16.00" HIGH FRONT, LEFT.
		BACKSPLASH 80.00" HIGH X 322.00" LONG 430 SS VERTICAL.
		RISER SENSOR INSTALL 6IN PLEN.
		LEFT WIDE VERTICAL END PANEL 42" TOP WIDTH, 36" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.
2	H1 - RIGHT	FIELD WRAPPER 16.00" HIGH FRONT, RIGHT.
		RIGHT WIDE VERTICAL END PANEL 42" TOP WIDTH, 36" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.

GREASE DUCT SPECIFICATIONS

GREASE DUCT & CHIMNEY SPECIFICATIONS:
PROVIDE GREASE DUCT EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW"
ROUND 20 GAUGE 430 STAINLESS STEEL DUCTWORK. MODEL "DW"
IS LISTED TO UL-1978 AND IS INSTALLED USING "V" CLAMP LOCKING
CONNECTIONS SEALED WITH 2M FIRE BARRIER 2000 PLUS. MODEL "DW"
DOES NOT REQUIRE WELDING PROVIDING IT HAS BEEN INSTALLED PER
THE MANUFACTURES INSTALLATION GUIDE.
PROVIDE RATED ACCESS DOORS AT EVERY CHANGE IN DIRECTION AND EVERY 12' ON CENTER. PER MANUFACTURES LISTING MODEL "DW" HORIZONTAL RUNS LESS THAN 75 FT. CAN BE SLOPED 1/16" PER 12", HORIZONTAL RUNS MORE THAN 75 FT.
CAN BE SLOPED 3/16" PER 12".
DUCT SHOULD BE SLOPED AS MUCH AS POSSIBLE TO REDUCE THE CHANCE OF GREASE ACCUMULATION IN HORIZONTAL RUNS.

IF THE DUCT OR CHIMNEY IS WITHIN 18 INCHES OF COMBUSTIBLE MATERIAL, PROVIDE UL-2221 OR UL-103 HT LISTED DOUBLE WALL GREASE DUCT OR DOUBLE WALL CHIMNEY EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW- 2R, 2R TYPE HT, 3R, OR 3Z" ROUND 20 GAUGE 430 STAINLESS INNER DUCT INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER SHELL.

FOR QUESTIONS, CALL THE
CAPTIVE-AIRE SYSTEMS
CENTRAL CALIFORNIA OFFICE

Region 91

8 ADRIAN COURT
BURLINGAME, CA 94010
PHONE: (415) 956-2200
EMAIL: REG91@CAPTIVEAIRE.COM

CAPTIVE-AIRE HOODS ARE
BUILT IN COMPLIANCE WITH

NFPA #96
UL 710 & ULC710 STANDARDS
E.T.L. LISTED 3054804-001

CAPTRATE & KLEEN-GARD FILTERS
ARE BUILT IN COMPLIANCE WITH

NFPA #96
NSF STANDARD #2
UL STANDARD #1046
INT. MECH. CODE (IMC)

SPECIFICATION: CAPTRATE GREASE-STOP SOLO FILTER

THE CAPTRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

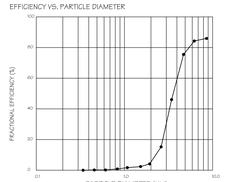
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

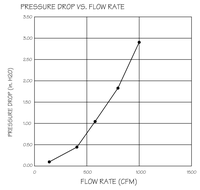
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

THE CAPTRATE GREASE-STOP SOLO WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.

EFFICIENCY VS. PARTICLE DIAMETER



PRESSURE DROP VS. FLOW RATE



CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:.
NFPA #96.
NSF STANDARD #2.
UL STANDARD #1046.
INT. MECH. CODE (IMC).
ULC-S649.

CAPTIVEAIRE
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Job: 22002
Plt: 11-03-22

AGENCY

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SOUTHERN KERN UNIFIED
SCHOOL DISTRICT
ROSAMOND HIGH SCHOOL

CAFETERIA BUILDING

2925 ROSAMOND BLVD.
ROSAMOND, CA 93560

KITCHEN EXHAUST HOOD SCHEDULE

Job No.
2990

Date
06-07-22

M5.01

EXHAUST FAN INFORMATION - JOB#5533112

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1	KEF-1	1	DU180HFA	CAPTIVEAIRE	2925	1.500	1328	ODP,PREMIUM	2.000	1.5300	3	460	3.8	676 FPM	187	19.6
2	KEF-2	1	DU180HFA	CAPTIVEAIRE	2925	1.500	1328	ODP,PREMIUM	2.000	1.5300	3	460	3.8	676 FPM	187	19.6

DOAS/RTU FAN SCHEDULE - JOB#5533112

FAN INFORMATION										ELECTRICAL INFORMATION						COOLING INFORMATION										REHEAT INFORMATION					GAS HEAT INFORMATION				NOTES
																OUTSIDE AIR		MIXED AIR		LEAVING AIR			CAPACITY			DISCHARGE	CAPACITY							
FAN UNIT NO	TAG	QTY	DOAS/RTU MODEL #	MANUFACTURER	BLOWER	RETURN AIR CFM	MAX OUTSIDE AIR CFM	TOTAL CFM	WEIGHT (LBS)	ESP	HP	BHP	Ø	VOLT	MCA	MOCP	DB	WB	DB	WB	DB	WB	DP	TOTAL	SENS.	IEER	ISMRE	DB	WB	DESIRED	MAX	MOISTURE REMOVAL RATE	GAS TYPE	INPUT BTUs	OUTPUT BTUs	TEMP RISE	
4	RTU-1	1	CASRTU3-1,400-24-20T-DOAS	CAPTIVEAIRE	24MF-3-RTU	0	5850	5850	2694	1.000	10.00	5.72	3	460	49.6A	60A	80.5°F	67.4°F	80.5°F	67.4°F	53.4°F	53.3°F	53.3°F	263.7 MBH	172.8 MBH	18.2	6.0	70.0°F	59.6°F	100.2 MBH	129.6 MBH	75.1 LBS/HR	NATURAL	394855	315884	50°F	1,2,3,4,5,6,7,8,9,10,11,12,13,14
***						2700	300	3000									80.5°F	67.4°F	75.6°F	62.6°F	47.3°F	47.3°F	47.4°F	119.8 MBH	84.1 MBH	18.2	6.0	70.0°F	59.6°F	71 MBH	129.6 MBH	32.8 LBS/HR	NATURAL	202490	161992	50°F	

NOTES:
1. INVERTEK SCROLL COMPRESSOR WITH INTEGRATED OIL SENSOR. DIGITAL OR STAGED SCROLL NOT AN APPROVED EQUAL
2. DIRECT DRIVE PLENUM BLOWER. BELT DRIVEN BLOWERS ARE NOT ACCEPTABLE
3. INTEGRATED MONITORING VIA CELLULAR CONNECTION BY MANUFACTURER
4. REFRIGERATION PRESSURE MONITORING ON HIGH AND LOW PRESSURE SIDE OF SYSTEM INCLUDED THROUGH DIGITAL INTERFACE
5. EC MOTOR CONDENSING FANS
6. ELECTRONIC EXPANSION VALVE. TXV NOT ACCEPTABLE
7. SUCTION LINE ACCUMULATOR
8. FACTORY COMMISSIONING WITH 5 YEAR PARTS WARRANTY, 25 YEAR WARRANTY ON STAINLESS STEEL HEAT EXCHANGER
9. AVERAGING INTAKE, EVAP AND DISCHARGE TEMPERATURE SENSORS (DISCHARGE SENSOR TO BE FACTORY MOUNTED WITHIN UNIT)
10. 2" EXTERIOR DUAL-WALL CONSTRUCTION W/ R-13 INSULATION-MINIMUM 20GA EXTERIOR W/ 14GA BASE
11. 80% EFFICIENT FURNACE, WITH MODULATING INDUCER TO MAINTAIN CONSTANT COMBUSTION EFFICIENCY ACROSS FIRING RANGE. 6:1 TURNDOWN WITH NG
12. SUPPLY CFM MONITORING INTEGRAL TO UNIT WITH CFM MEASUREMENT INCLUDED THROUGH DIGITAL INTERFACE
13. FULLY MODULATING HOT GAS REHEAT
14. DOWN DISCHARGE/DOWN RETURN
*** PERFORMANCE DURING OCCUPIED TIMES WHEN EXHAUST HOODS ARE OFF

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	KEF-1	1	GREASE BOX
		1	FAN BASE CERAMIC SEAL - INSTALLED AT PLANT - FOR GREASE DUCTS
		1	LOAD REACTOR MOUNTED IN FAN
		1	2 YEAR PARTS WARRANTY
2	KEF-2	1	GREASE BOX
		1	FAN BASE CERAMIC SEAL - INSTALLED AT PLANT - FOR GREASE DUCTS
		1	LOAD REACTOR MOUNTED IN FAN
		1	2 YEAR PARTS WARRANTY
4	RTU-1	1	INLET PRESSURE GAUGE, 0-35"
		1	MANIFOLD PRESSURE GAUGE, 0 TO 10" WC, 1 FURNACE
		1	RTU TOTAL CFM MONITORING
		1	SHIP LOOSE GAS STRAINER 3/4"
		1	CASLINK BUILDING MONITORING SYSTEM - INTERNET CONNECTION REQUIRED
		1	RTU-1 DOWN DISCHARGE
		1	2" MERV 13 FILTERS FOR RTU-1 (QTY. 4)
		1	2" MERV 8 FILTERS FOR RTU-1 (QTY. 4)
		1	OVERHEAT STAT
		1	SPECIAL ORIFICES FOR IF HEATERS ABOVE 2,000'
		1	20 TON MODULATING COOLING OPTION, 460V. 3PH, R410A REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS
		1	20 TON MODULATING REHEAT OPTION - SPACE DEWPOINT CONTROL
		1	REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR
		1	RTU-1 CURB DUCT HANGER
		1	OCCUPIED SCHEDULING
		1	CLOGGED FILTER SWITCH - NOTIFICATION ON HMI
		1	RTU-1 CONVENIENCE OUTLET (GFCI), 15 AMP - REQUIRES SEPARATE 120V CONNECTION. INCLUDES RECEPTACLE, COVER AND J-BOX
		1	RTU ECONOMIZER INTAKE/RETURN DAMPER - SCHEDULED OA PERCENTAGE CONTROL W/FDD & ALARMING PER CEC 2019, 120.2 (i)
		1	RTU-1 DOWN RETURN
		1	UNIT MOUNTED VFD CONFIGURED FOR DCV
		1	5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE MONITORING AND CAPTIVEAIRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE PARTS WARRANTY (SEE ADDITIONAL DETAILS)

FAN ACCESSORIES

FAN UNIT NO	TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	KEF-1	YES						
2	KEF-2	YES						

CURB ASSEMBLIES

NO	ON FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	KEF-1	41 LBS	CURB	26.500"W X 26.500"L X 20.000"H ALONG LENGTH, RIGHT VENTED HINGED.
2	# 2	KEF-2	41 LBS	CURB	26.500"W X 26.500"L X 20.000"H ALONG LENGTH, RIGHT VENTED HINGED.
3	# 3	RTU-1	78 LBS	CURB	59.500"W X 91.000"L X 14.000"H ALONG WIDTH, RIGHT INSULATED.

AGENCY

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DATE: 03/24/2023

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CONSULTANT

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Exp. 9-30-23
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SCHOOL DISTRICT
ROSAMOND HIGH SCHOOL

CAFETERIA BUILDING

2925 ROSAMOND BLVD.
ROSAMOND, CA 93560

KITCHEN EX. FAN AND RTU SCHEDULES

Job No. 2990

Date 06-07-22

M5.02

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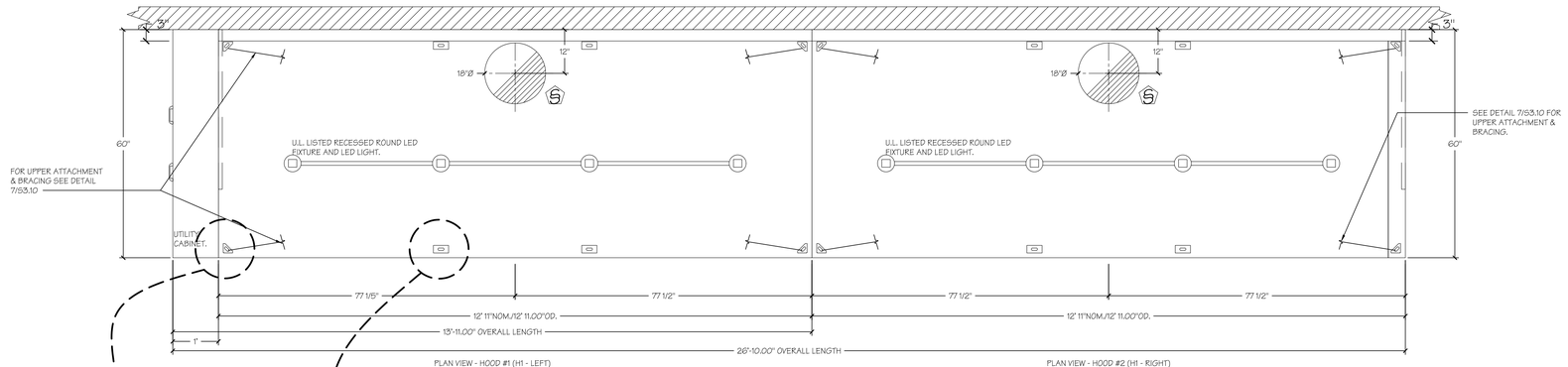
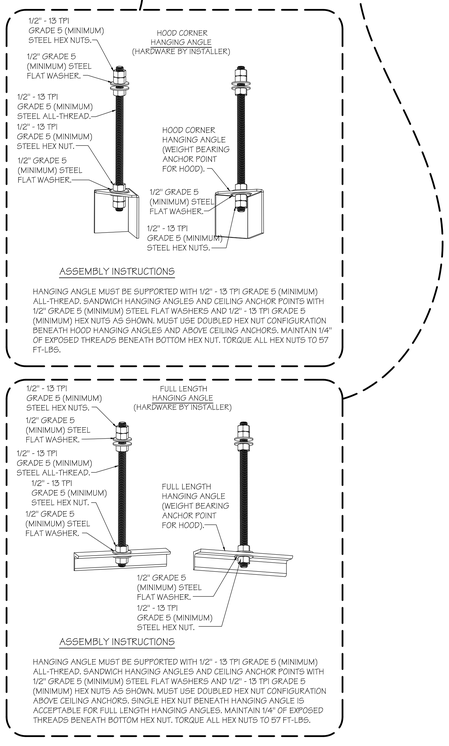


PLAN VIEW - HOOD #1 (H1 - LEFT)
13' 0.00" LONG 6024ND-2

NOTE: ADDITIONAL HANGING ANGLES PROVIDED FOR HOODS 12' AND LONGER.

PLAN VIEW - HOOD #2 (H1 - RIGHT)
13' 0.00" LONG 6024ND-2

NOTE: ADDITIONAL HANGING ANGLES PROVIDED FOR HOODS 12' AND LONGER.

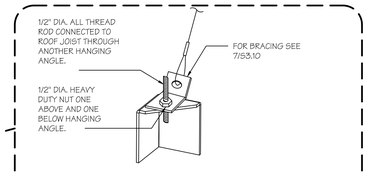


ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD, SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

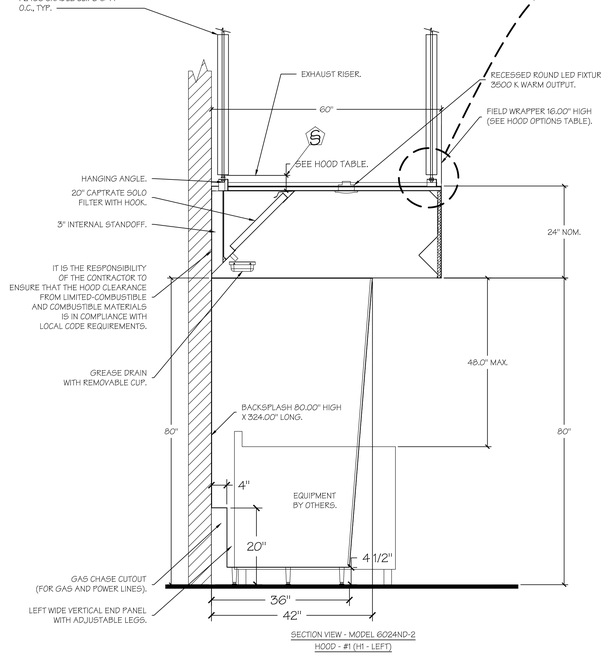
ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD, SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS. SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR FULL LENGTH HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

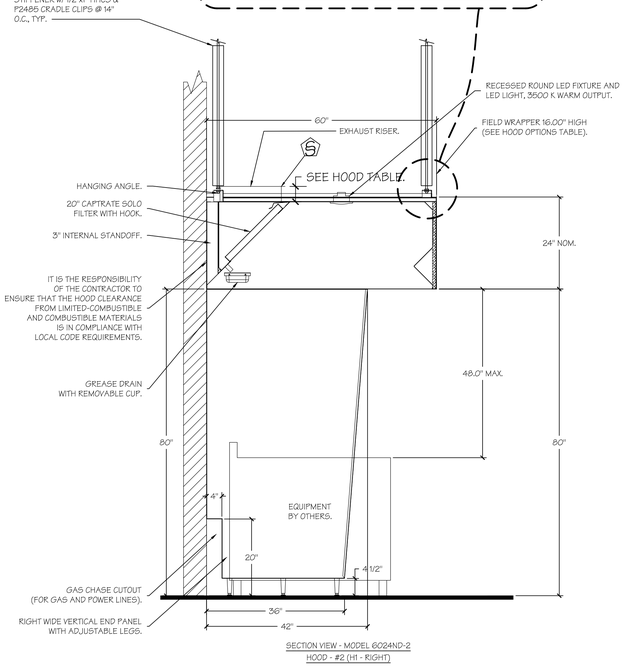


* ROD AND NUTS TO BE SUPPLIED BY INSTALLING CONTRACTOR HANGING ANGLE IS PRE-PUNCHED AT FACTORY.

ND-2 HANGING ANGLE DETAIL



SECTION VIEW - MODEL 6024ND-2
HOOD - #1 (H1 - LEFT)



SECTION VIEW - MODEL 6024ND-2
HOOD - #2 (H1 - RIGHT)

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ROSAMOND HIGH SCHOOL

CAFETERIA BUILDING

2925 ROSAMOND BLVD.
ROSAMOND, CA 93560

MECHANICAL CAPTIVEAIRE SHEETS

Job No.
2990

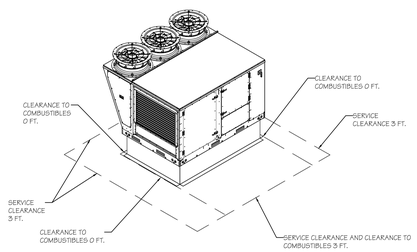
Date
06-07-22

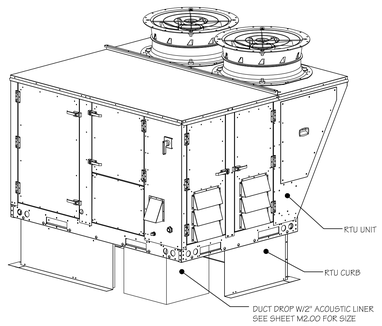
M5.03

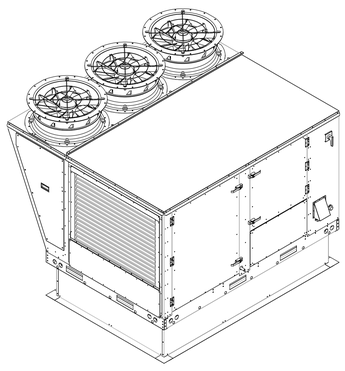
FAN #4 CASRTU3-1400-24MF-20T-D0A5 - HEATER (RTU-1)

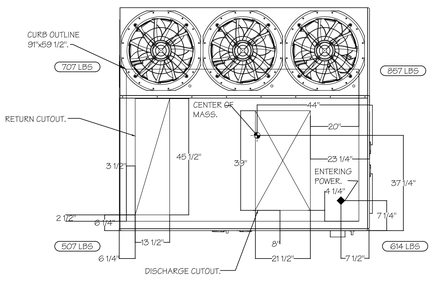
NOTES:

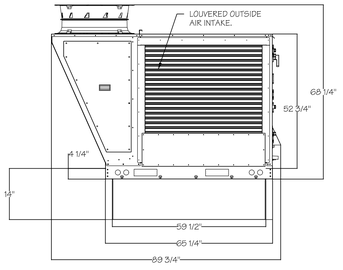
1. DO NOT OBSTRUCT OUTSIDE AIR INLET, OUTSIDE AIR COIL OR OUTSIDE AIR FAN.
2. ( ) DENOTES CORNER WEIGHT.
3. ROOF OPENING MUST BE 2" SMALLER THAN CURB DIMENSIONS IN BOTH DIRECTIONS.

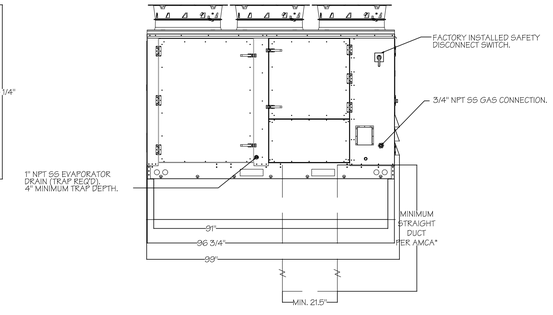


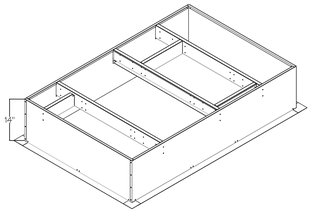


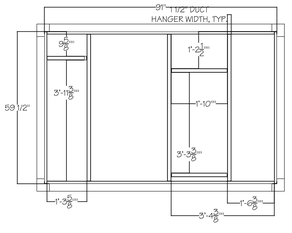




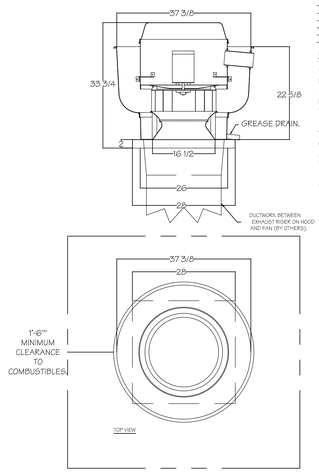








FANS #1 (KEF-1), #2 (KEF-2) - DU180HFA EXHAUST FAN

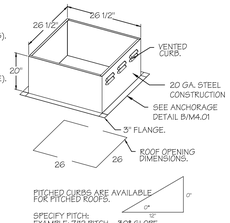


FEATURES:
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND ULC762 AND ULC-S645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

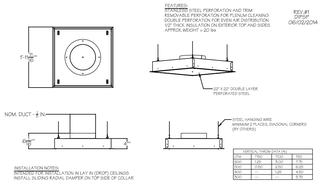
NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS
GREASE BOX.
FAN BASE CERAMIC SEAL - INSTALLED AT PLANT - FOR GREASE DUCTS.
LOAD REACTOR MOUNTED IN FAN.
2 YEAR PARTS WARRANTY.



KEF-1 & KEF-2 EXHAUST FAN DETAIL

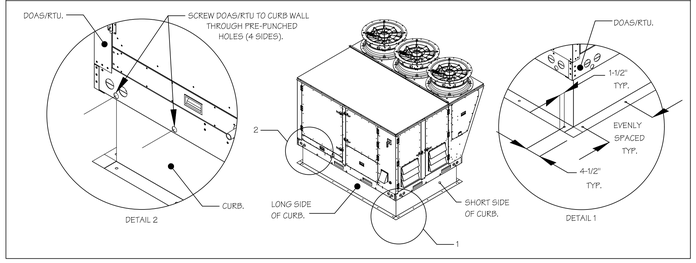


DI-PSP SUPPLY PLENUM GRILLES

TYPICAL DOAS/RTU ROOF MOUNTING INSTALLATION INSTRUCTIONS

1. SECURE THE CURB TO THE ROOF FRAMING MEMBERS BY DRILLING 1/4" PILOT HOLES IN THE CURB FLANGES AT LOCATIONS SHOWN IN THE DIAGRAM BELOW. USING 3/8" X 2" ZINC PLATED STEEL LAG BOLTS, AND ZINC PLATED WASHERS, SCREW THROUGH THE CURB FLANGES AND INTO THE ROOF FRAMING MEMBERS. A MINIMUM OF (5) LAG BOLTS ON EACH SHORT SIDE, AND (7) LAG BOLTS ON EACH LONG SIDE IS REQUIRED.

2. SECURE THE UNIT BASE TO THE SIDE WALLS OF THE CURB USING (24) 1/4"-14 X 2" SELF-DRILLING, STEEL ZINC PLATED SCREWS. PRE-PUNCHED HOLES HAVE BEEN PROVIDED FOR EACH SCREW LOCATION.



RTU-1 UNIT DETAIL

AGENCY

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122536 INC:
REVIEWED FOR
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DATE: 03/24/2023

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architecture planning interiors

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CONSULTANT

REGISTERED PROFESSIONAL ENGINEER
MARK JAMES BASKIN
No. M26277
Exp. 06-30-24
MECHANICAL
STATE OF CALIFORNIA

Drawn by

Checked by

Revisions

No.	Date	Description

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared for a specific site. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Flewelling & Moody.

SOUTHERN KERN UNIFIED SCHOOL DISTRICT
ROSAMOND HIGH SCHOOL

CAFETERIA BUILDING

2925 ROSAMOND BLVD.
ROSAMOND, CA 93560

KITCHEN EX. FAN AND RTU DETAILS

Job No.
2990

Date
06-07-22

M5.04

CAPTIVE-AIRE
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www.captiveaire.com
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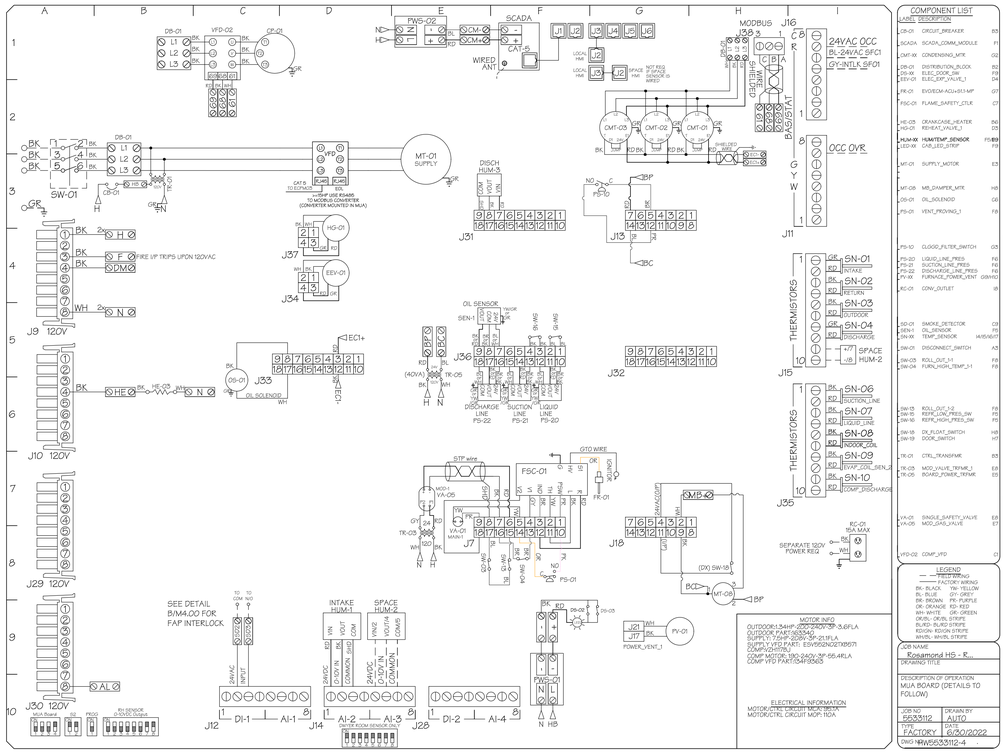
BASKIN MECHANICAL ENGINEERS
2131 19th St, Suite B
Bakersfield, CA 93301
Tel: (661) 397-2114
Job: 22002
Plt: 11-03-22



COMPONENT LIST

LABEL	DESCRIPTION	
DB-01	CIRCUIT_BREAKER	B3
SCADA	SCADA_COMM_MODULE	F1
CMT-XX	CONDENSING_MTR.	G2
DB-01	DISTRIBUTION_BLOCK	B2
DS-XX	ELEC_DOOR_SW	F9
EEV-01	ELEC_EXP_VALVE_1	D4
FR-01	EVP/ECM-ACU-013 MP	G7
FSC-01	FLAME_SAFETY_CTLR	C7
HE-03	CRANKCASE_HEATER	B6
HG-01	REHEAT_VALVE_1	D3
HUM-XX	HUMIDITY_SENSOR	F5 E9
LED-XX	CAB_LED_STRIP	F9
MT-01	SUPPLY_MOTOR	E3
MT-05	MTR_CHAMPER_MTR.	H9
OS-01	OIL_SOLENOID	G9
PS-01	VENT_PROVING_1	F8
PS-10	CLOGG_FILTER_SWITCH	G5
PS-20	LIQUID_LINE_PRES.	F6
PS-21	SUCTION_LINE_PRES.	F6
PS-22	DISCHARGE_LINE_PRES.	F6
PV-XX	FURNACE_POWER_VENT	G9 H10
RC-01	CONV_OUTLET	I8
SD-01	SMOKE_DETECTOR	C9
SEN-1	OIL_SENSOR	F5
SW-XX	TEMP_SENSOR	I4 I5 I6 I7
SW-01	DISCONNECT_SWITCH	A3
SW-03	ROLL_OUT_1-1	F8
SW-04	FURN_HIGH_TEMP_1-1	F8
SW-05	ROLL_OUT_1-2	F8
SW-15	KEYPE_LOW_PRESS_SW	F5
SW-16	KEYPE_HIGH_PRESS_SW	F5
SW-18	DX_FLOAT_SWITCH	H9
SW-19	DOOR_SWITCH	H7
TR-01	CTRL_TRANSFMR.	B3
TR-05	MOD_VALVE_TRFMR_1	E8
TR-06	BOARD_POWER_TRFMR	E5
VA-01	SINGLE_SAFETY_VALVE	E8
VA-05	MOD_GAS_VALVE	E7
VFD-02	COMP_VFD	I7

LEGEND
— — FIELD WIRING
— — — — FACTORY WIRING
BK- BLACK YW- YELLOW
BL- BLUE GY- GREY
BR- BROWN PK- PURPLE
OR- ORANGE RD- RED
WH- WHITE GR- GREEN
OR/BL- OR/BL STRIPE
BL/RD- BL/RD STRIPE
RD/GN- RD/GN STRIPE
WH/BL- WH/BL STRIPE

JOB NAME	Rosamond HS - R...
DRAWING TITLE	
DESCRIPTION OF OPERATION	MUA BOARD (DETAILS TO FOLLOW)
JOB NO	5653112
DRAWN BY	AUTO
TYPE	FACTORY
DATE	6/30/2022
DWG NO	RTU1/VFD5653112-4

SUPPLY DRIVE PARAMETER SETTINGS

P100	(START SOURCE) = 01 (TERMINAL STRIP)
P150	(TR-5Q OUTPUT) = 1
P194	PASSWORD = 225
P410	MODBUS ADRESS = 21

ADJUST MANUALLY ON ALL DRIVES	
P105	VFD MAX FREQUENCY
P107	00 (IF 120 OR 208 VAC)
	OR 01 IF(230, 460 OR 575VAC)
P108	MOTOR FLA X 100 / DRIVE OUTPUT RATING
P307	REFERENCE BUILD SHEET

*NOTE: THE DEFAULT FOR THE DRIVE IS "225".

All external control wires to motor speed control should be 16-20 AWG shielded multi-conductor cables and must not be run in the same conduit or raceway with any high power wiring. Ground Shielded Cable at the drive chassis ONLY.

PG. 11, 19, 23 OF THE DRIVE MANUAL DESCRIBES THE PROPER HANDLING OF THE VARIABLE FREQUENCY DRIVE.

IT MAY BE REQUIRED TO FULLY POWER DOWN THE DRIVE AND TURN BACK ON IN ORDER TO INITIATE NEW PARAMETER SETTINGS.

**Min. and Max. Frequency Settings override all other Preset speeds/Parameters. Do not adjust these on the VFD. Min. and Max. Frequency should be adjust on the RTU HMI.

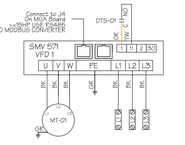
COMPRESSOR DRIVE PARAMETER SETTINGS MUST BE CONFIGURED BEFORE STARTUP

0-02	[161] POWER KW
0-40	[2] PASSWORD
0-60	225
0-61	[1] LCP READ ONLY
0-66	[1] LCP READ ONLY
3-15	[2] NO FUNCTION
3-16	[2] NO FUNCTION
3-41	200.00s
3-42	200.00s
3-51	30.00s
3-52	30.00s
8-01	[2] CTRL WORD ONLY
8-03	10 SECONDS
8-04	[2] STOP
8-30	[2] MODBUS RTU
8-31	1
8-32	115200
8-33	[2] EVEN PARITY, 1 STOP BIT
8-43-2	1010
8-43-3	1010
8-43-4	1015
8-43-5	1015
8-43-6	1014
8-43-7	1014
8-43-8	1010
8-43-9	1010
8-43-10	1034
8-43-12	1034
8-43-13	1034
28-00	DISABLE
28-10	2ms

*Must be programmed using software

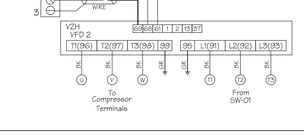
SMV 571 SERIES VFD

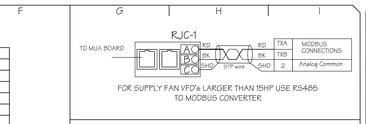
Terminal	Description
1	Digital Input/(Start/Stop)
11	Internal DC Supply for External Devices
2	Analog Common
30	Analog Output/Configurable with P150..P155
RJ45	MODBUS COMMUNICATION
PE	Ground Terminal
L1	3 Phase Input or Single Phase Input
L2	3 Phase Input or Single Phase Input
L3 (N)	3 Phase Input (Neutral for 120v)
U	3 Phase AC Motor
V	3 Phase AC Motor
W	3 Phase AC Motor



VZH SERIES COMPRESSOR VFD

TERMINAL	FUNCTION
15	24+
37	Pressure Switch In
1	Relay 1 to all solenoid
2	Relay 1 to all solenoid
61	COM RS-485
68	N RS-485
69	P RS-485
96	INPUT Ground
L1 (91)	3 Phase Input or Single Phase Input
L2 (92)	3 Phase Input or Single Phase Input
L3 (93)	3 Phase Input
T1 (96)	Compressor
T2 (97)	Compressor
T3 (98)	Compressor
99	Compressor Ground





RTU VFD SCHEMATIC

COMPONENT LIST

LABEL	DESCRIPTION
DTS-01	Blower Door Sw
MT-01	Supply Motor
PWS-01	24VDC Power Supply
SW-01	Main Disconnects Sw
VFD-1	Supply Motor VFD
VFD-2	Compressor VFD

LEGEND
— — FIELD WIRING
— — — — FACTORY WIRING
BK- BLACK YW- YELLOW
BL- BLUE GY- GREY
BR- BROWN PK- PURPLE
OR- ORANGE RD- RED
WH- WHITE GR- GREEN
OR/BL- OR/BL STRIPE
BL/RD- BL/RD STRIPE
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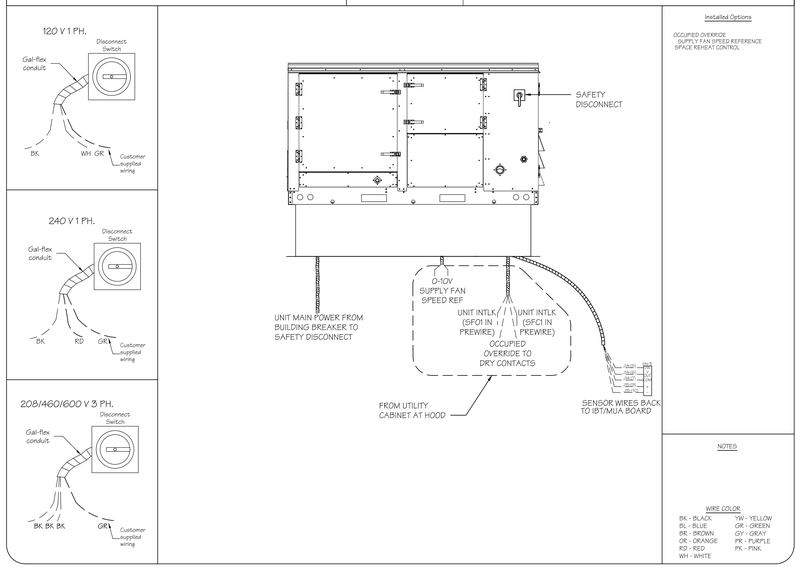
WH/BL- WH/BL STRIPE

JOB NAME	Rosamond HS - R...
DRAWING TITLE	
DESCRIPTION OF OPERATION	MUA BOARD (DETAILS TO FOLLOW)
JOB NO	5653112
DRAWN BY	AUTO
TYPE	FACTORY
DATE	6/30/2022
DWG NO	RTU1/VFD5653112-4

RTU Installation Wiring

DRAWING NUMBER	INST5653112-4	JOB	Rosamond HS - Rosamond, CA
		SHIP DATE	6/30/2022
		MODEL	CASETU3-1A00-24-20T-00A5



Installed Options

OCCUPIED OVERRIDE
SUPPLY FAN SPEED REFERENCE
SPACE REHEAT CONTROL

NOTES

WIRE COLOR

BK - BLACK	YW - YELLOW
BL - BLUE	GR - GREEN
BR - BROWN	GY - GRAY
OR - ORANGE	PK - PURPLE
RD - RED	PK - PINK
WH - WHITE	

AGENCY

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SS ☑ FLS ☑ ACS ☑
DATE: 03/24/2023

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LICENSED ARCHITECT
C-26053
Ren. Date 08/31/2023
STATE OF CALIFORNIA

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER
MARK JAMES BRUNDAGE
No. M26
Exp. 9-30-24
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STATE OF CALIFORNIA

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Revisions

No.	Date	Description

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT
ROSAMOND HIGH SCHOOL

CAFETERIA BUILDING

2925 ROSAMOND BLVD.
ROSAMOND, CA 93560

RTU EQUIPMENT CONTROL PANELS

Job No.
2990

Date
06-07-22

M5.05

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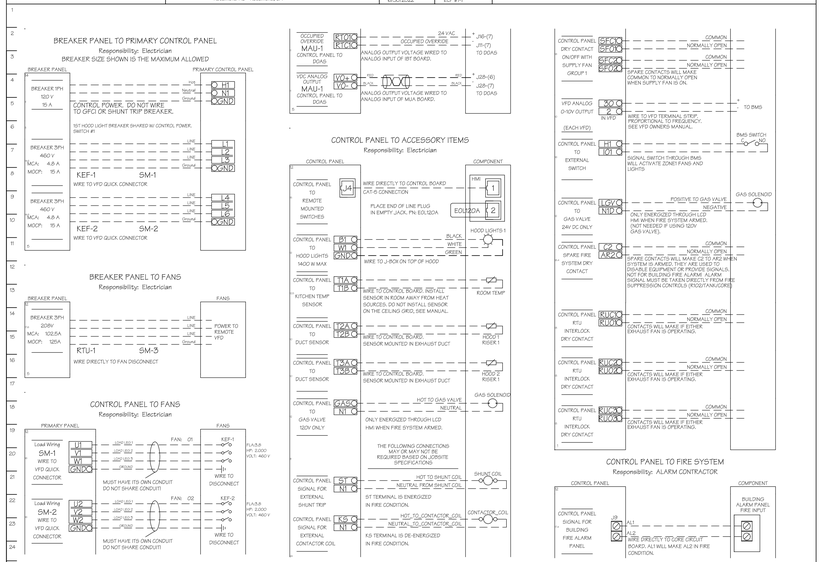
Bakersfield, CA 93301
Tel: (661) 397-2114
Job: 22002
Plt: 11-03-22

ELECTRICAL PACKAGE - JOB#5533112

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED				
				LOCATION	QUANTITY		FAN TAG	TYPE	Φ	HP	VOLT	FLA
1		DCV-2111	WALL MOUNT IN SS BOX	03 - UTILITY CABINET LEFT	1 LIGHT 1 FAN	SMART CONTROLS DCV	KEF-1	EXHAUST	3	2.000	460	3.8
							KEF-2	EXHAUST	3	2.000	460	3.8
							MAU-1	SUPPLY	3	10.000	208	27.0

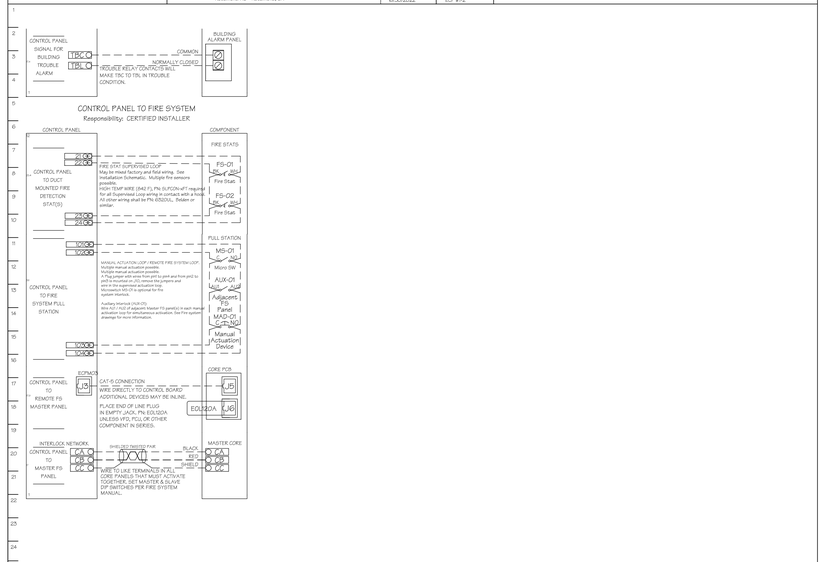
JOB NO 5533112 | MODEL NUMBER DCV-2111 | JOB NAME Rosamond HS - Rosamond, CA | DRAWN BY | DATE 6/30/2022 | SCHEMATIC TYPE INSTALL | DWG NO ECF #1-3

DESCRIPTION OF OPERATION:
Demand Control Ventilation, air control for (2 Exhaust Fans, 1 Supply Fan, Exhaust on in Fire, Lights out in Fire, Fans modulate based on duct temperature. INVERTER DUTY !!! PHASE MOTOR REQUIRED FOR USE WITH VFD. Room temperature sensor shipped loose for field installation.Verify distance between VFD and Motor, additional cont.cond apply if distance exceeds 50 feet.



JOB NO 5533112 | MODEL NUMBER DCV-2111 | JOB NAME Rosamond HS - Rosamond, CA | DRAWN BY | DATE 6/30/2022 | SCHEMATIC TYPE INSTALL | DWG NO ECF #1-2

DESCRIPTION OF OPERATION:
Demand Control Ventilation, air control for (2 Exhaust Fans, 1 Supply Fan, Exhaust on in Fire, Lights out in Fire, Fans modulate based on duct temperature. INVERTER DUTY !!! PHASE MOTOR REQUIRED FOR USE WITH VFD. Room temperature sensor shipped loose for field installation.Verify distance between VFD and Motor, additional cont.cond apply if distance exceeds 50 feet.



JOB NO 5533112 | MODEL NUMBER DCV-2111 | JOB NAME Rosamond HS - Rosamond, CA | DRAWN BY | DATE 6/30/2022 | SCHEMATIC TYPE INSTALL | DWG NO ECF #1-3

DESCRIPTION OF OPERATION:
Fire System #1 TANK FD - KLON-2HLO. Tank-based Fire Protection System equipped with Electronic Detection utilizing CORE board as a Listed Release Mechanism. Installed in Hood Utility Cabinet separate from ovens. Includes 12" box housing circuit board, batteries, and terminals for connection to main control panel.

TANK PROTECTION ELECTRICAL DETAIL

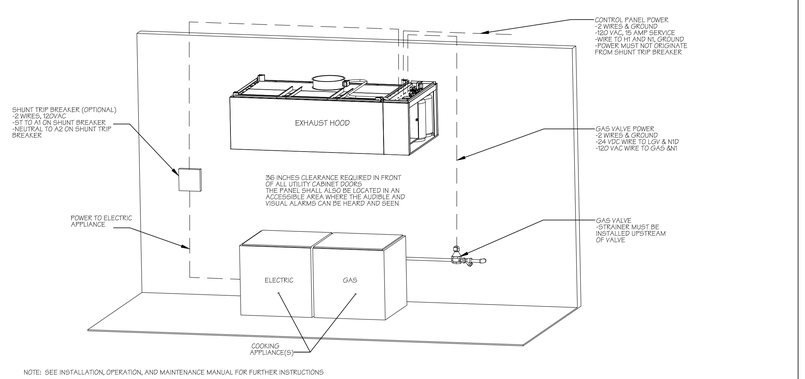
02/10/2021 Rev. 2

FS-1: MASTER

ELECTRICIAN:
1. WIRE MAIN CONTROL PANEL PER INCLUDED SCHEMATIC
2. WIRE ALL FANS PER INCLUDED SCHEMATIC
3. WIRE SHUNT TRIP BREAKER (OPTIONAL)
4. WIRE UDS APPLIANCE KILL SWITCH, IF EQUIPPED (OPTIONAL)
5. WIRE GAS VALVE

ELECTRICAL CONTRACTOR REQUIREMENT

ITEM	CONNECTION IN PANEL	CONNECTION IN DEVICE	VOLTAGE	AMPERAGE	COMMENTS
SHUNT TRIP BREAKER (OPTIONAL)	ST & N1	BREAKER COIL (A1 & A2)	120 VAC	< 4 AMPS	ST TO A1 ON SHUNT BREAKER COIL, AND NEUTRAL TO A2 ON SHUNT TRIP BREAKER COIL
CONTROL PANEL POWER	H1 & N1 + GROUND	CIRCUIT BREAKER	120 VAC	15 AMPS	CONTROL PANEL POWER MUST NOT BE RUN THROUGH SHUNT TRIP BREAKER
UDS APPLIANCE KILL SWITCH (OPTIONAL)	KTS & N1	KTS & N1	120 VAC	< 4 AMPS	KILL SWITCH TERMINALS MUST BE IN SERIES WITH OTHER KILL SWITCHES
REMOTE 120VAC ANSUL AUTOMAN (OPTIONAL)	AU1, AU2	SOLENOID	120 VAC	< .6 AMPS	120V TO AU1, AU2 TO ANSUL ELECTRIC AUTOMAN, ANSUL SOLENOID TO NEUTRAL
GAS VALVE	LGV & N1D (IF 24 VDC) GAS & N1 (IF 120 VAC)	RED/RED/GREEN	24 VDC OR 120 VAC	< 1.0 AMPS	IF 24 VDC - 2 WIRES & GROUND, N1D TO RED, LGV TO RED, AND GREEN TO GROUND IF 120 VAC - 2 WIRES & GROUND GAS TO RED, N1 TO RED, AND GREEN TO GROUND



NOTE: SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS

JOB NO 5533112 | MODEL NUMBER DCV-2111 | JOB NAME Rosamond HS - Rosamond, CA | DRAWN BY | DATE 6/30/2022 | SCHEMATIC TYPE INSTALL | DWG NO ECF #1-4

DESCRIPTION OF OPERATION:
Fire System #1 TANK FD - KLON-2HLO. Tank-based Fire Protection System equipped with Electronic Detection utilizing CORE board as a Listed Release Mechanism. Installed in Hood Utility Cabinet separate from ovens. Includes 12" box housing circuit board, batteries, and terminals for connection to main control panel.

TANK PROTECTION LOW-VOLTAGE DETAIL

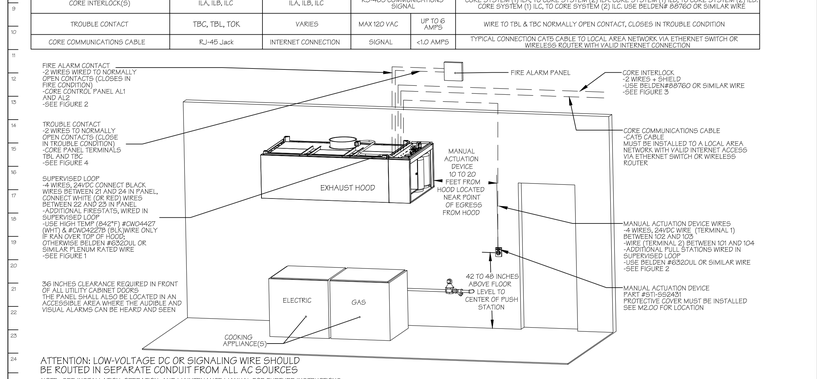
02/10/2021 Rev. 2

FS-1: MASTER

ALARM CONTRACTOR:
1. WIRE MANUAL ACTUATION DEVICE(S), REMOTE FIRESTAT(S), CORE INTERLOCK(S), FIRE SENSOR(S) AND FIRE ALARM CONTACTS
2. COMPLETE FINAL HOOKUP OF SYSTEM
3. VERIFY FINAL FIRE SYSTEM TEST

ALARM CONTRACTOR REQUIREMENT

ITEM	CONNECTION IN PANEL	CONNECTION ON DEVICE	VOLTAGE	AMPERAGE	COMMENTS
MANUAL ACTUATION DEVICE(S)	101 AND 104 102 AND 103	1 & 2	24 VDC	< 1.0 AMPS	WIRE MANUAL ACTUATION DEVICE TERMINAL 1 BETWEEN CORE PANEL TERMINALS 102 AND 103 WIRE MANUAL ACTUATION DEVICE TERMINAL 2 BETWEEN CORE PANEL TERMINALS 101 AND 104 JUMPER 101 TO 104 AND 102 TO 103 IF NO MANUAL ACTUATION DEVICE IS INSTALLED
MANUAL ACTUATION DEVICE COVER	N/A	N/A	N/A	N/A	MANUAL ACTUATION DEVICE COVER MUST BE INSTALLED IF SURFACE MOUNTED, USE COVER EXTENSION STI-695935
REMOTE FIRESTAT SENSOR(S)	21 AND 24 22 AND 23	BLACK AND WHITE	24 VDC	< 1.0 AMPS	WIRE FIRE SENSOR WIRE WIRES BETWEEN HOOD CORE PANEL TERMINALS 22 AND 23 WIRE FIRE SENSOR BLACK WIRE BETWEEN HOOD CORE PANEL TERMINALS 21 AND 24 HIGH TEMP (842°F) #CWD44427 (WHT) & #CWD44278 (BLK) WIRE OR SIMILAR ONLY IF KAN OVER TOP OF HOOD OTHERWISE BELDEN #6302OUL OR SIMILAR PLENUM RATED WIRE SEE FIGURE 1
FIRE ALARM CONTACT	AL1, AL2	VARIES	150V MAX (AC/DC)	UP TO 1 AMP	FIRE ALARM RELAY CONTACTS FOR BUILDING FIRE ALARM LOCATED IN THE CORE ELECTRICAL CONTROL PANEL
CORE INTERLOCK(S)	ILA, ILB, ILC	ILA, ILB, ILC	RS-485 COMMUNICATIONS SIGNAL		CORE SYSTEM (1) ILA, TO CORE SYSTEM (2) ILA. CORE SYSTEM (1) ILB, TO CORE SYSTEM (2) ILB. CORE SYSTEM (1) ILC, TO CORE SYSTEM (2) ILC. USE BELDEN# 85760 OR SIMILAR WIRE
TROUBLE CONTACT	TBC, TBL, TDK	VARIES	MAX 120 VAC	UP TO 6 AMPS	WIRE TO TBL & TBC NORMALLY OPEN CONTACT, CLOSES IN TROUBLE CONDITION
CORE COMMUNICATIONS CABLE	RJ-45 Jack	INTERNET CONNECTION	SIGNAL	<1.0 AMPS	TYPICAL CONNECTION CAT5 CABLE TO LOCAL AREA NETWORK VIA ETHERNET SWITCH OR WIRELESS ROUTER WITH VALID INTERNET CONNECTION



ATTENTION: LOW-VOLTAGE DC OR SIGNALING WIRE SHOULD BE ROUTED IN SEPARATE CONDUIT FROM ALL AC SOURCES

NOTE: SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS

AGENCY

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DATE: 03/24/2023

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C-26053
Ren. Date 08/31/2023
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CONSULTANT

REGISTERED PROFESSIONAL ENGINEER
MARK JAMES BASKIN
No. M26577
EXP. 06-30-23
MECHANICAL
STATE OF CALIFORNIA

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Revisions

No.	Date	Description

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. Those shown & the specifications is corrective. Errorsdo from be reported For plans & site. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Flewelling & Moody.

SOUTHERN KERN UNIFIED SCHOOL DISTRICT
ROSAMOND HIGH SCHOOL

CAFETERIA BUILDING

2925 ROSAMOND BLVD.
ROSAMOND, CA 93560

UL 300 FIRE SYSTEM DETAILS

Job No. 2990

Date 06-07-22

M5.06

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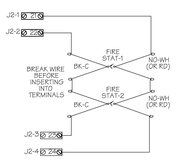
Tel: (661) 397-2114
Job: 22002
Plt: 11-03-22

JOB NO. 5533112	MODEL NUMBER DCV-2111	DRAWN BY	SCHEMATIC TYPE INSTALL	DESCRIPTION OF OPERATION:
	JOB NAME Rosamond HS - Rosamond, CA	DATE 6/30/2022	DWG NO ECP #1-5	Fire System #1 TANK FS - 4-CHUNCO Tank-based Fire Protection System equipped with Electronic Detection utilizing CORE board as a Listed Release Mechanism. Installed in Hood Utility Cabinet separate from prisms. Includes 12" box housing circuit board, batteries, and terminals for connection to main control panel.

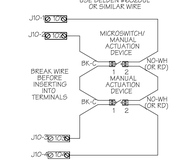
TANK PROTECTION LOW-VOLTAGE FIGURES

02/10/2021 Rev. 17

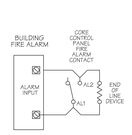
FS-1: MASTER



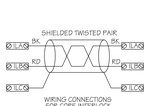
WIRING CONNECTIONS FOR FIRESTAT LOOP
FIGURE 1



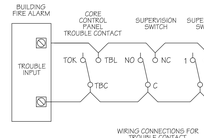
WIRING CONNECTIONS FOR MANUAL ACTUATION LOOP
FIGURE 1A



WIRING CONNECTIONS FOR FIRE ALARM CONTACT
FIGURE 2



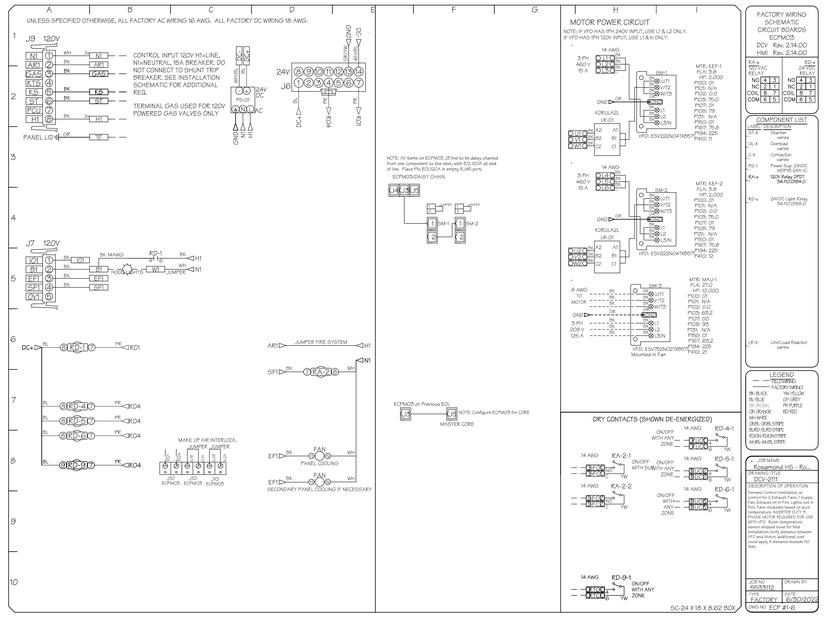
WIRING CONNECTIONS FOR CORE INTERLOCK
FIGURE 5

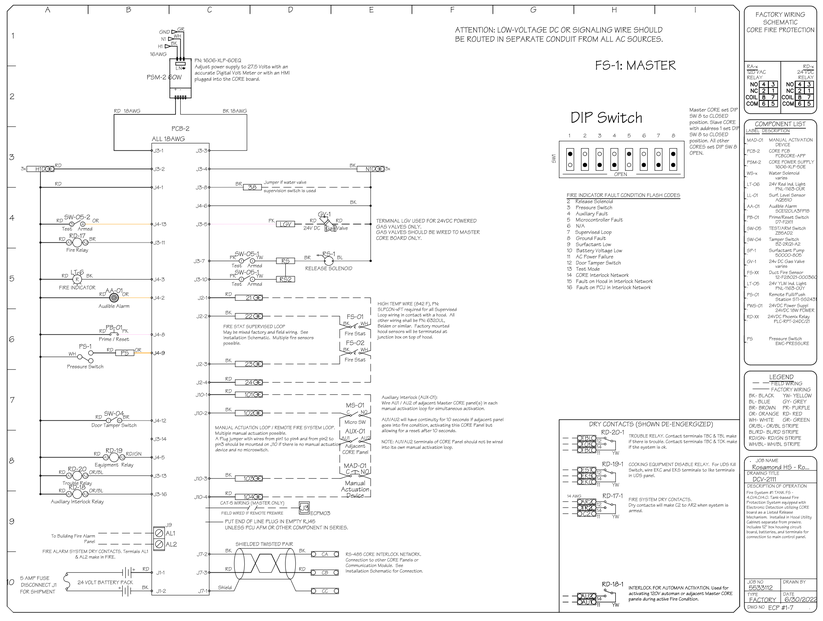


WIRING CONNECTIONS FOR TROUBLE CONTACT
FIGURE 4

ATTENTION: LOW-VOLTAGE DC OR SIGNALING WIRE SHOULD BE ROUTED IN SEPARATE CONDUIT FROM ALL AC SOURCES

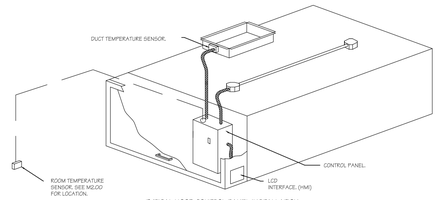
NOTE: SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS





DEMAND CONTROL VENTILATION HOOD CONTROL PANEL SPECIFICATIONS:

- CONTROLS SHALL BE LISTED BY ETL (UL 508A) AND SHALL COMPLY WITH DEMAND VENTILATION SYSTEM TURNDOWN REQUIREMENTS OUTLINED IN IECC 403.2.8 (2015).
- THE CONTROL ENCLOSURE SHALL BE NEMA 1 RATED AND LISTED FOR INSTALLATION INSIDE OF THE EXHAUST HOOD UTILITY CABINET. THE CONTROL ENCLOSURE MAY BE CONSTRUCTED OF STAINLESS STEEL OR PAINTED STEEL.
- TEMPERATURE PROBE(S) LOCATED IN THE EXHAUST DUCT KISER(S) SHALL BE CONSTRUCTED OF STAINLESS STEEL.
- A DIGITAL CONTROLLER SHALL BE PROVIDED TO ACTIVATE THE HOOD EXHAUST FANS DYNAMICALLY BASED ON A FIXED DIFFERENTIAL BETWEEN THE AMBIENT AND DUCT TEMPERATURES SENSORS. THIS FUNCTION SHALL MEET THE REQUIREMENTS OF IMC 507.1.1.
- A DIGITAL CONTROLLER SHALL PROVIDE ADJUSTABLE HYSTERESIS SETTINGS TO PREVENT CYCLING OF THE FANS AFTER THE COOKING APPLIANCES HAVE BEEN TURNED OFF AND/OR THE HEAT IN THE EXHAUST SYSTEM IS REDUCED.
- A DIGITAL CONTROLLER SHALL PROVIDE AN ADJUSTABLE MINIMUM FAN RUN-TIME SETTING TO PREVENT FAN CYCLING.
- VARIABLE FREQUENCY DRIVES (VFDS) SHALL BE PROVIDED FOR FANS AS REQUIRED. THE DIGITAL CONTROLLER SHALL MODULATE THE VFDS BETWEEN A MINIMUM SETPOINT AND A MAXIMUM SETPOINT ON DEMAND. THE DUCT TEMPERATURE SENSOR INPUT(S) TO THE DIGITAL CONTROLLER SHALL BE USED TO CALCULATE THE SPEED REFERENCE SIGNAL.
- THE VFD SPEED RANGE OF OPERATION SHALL BE FROM 0% TO 100% FOR THE SYSTEM, WITH THE ACTUAL MINIMUM SPEED SET AS REQUIRED TO MEET MINIMUM VENTILATION REQUIREMENTS.
- AN INTERNAL ALGORITHM TO THE DIGITAL CONTROLLER SHALL MODULATE SUPPLY FAN VFD SPEED PROPORTIONAL TO ALL EXHAUST FANS THAT ARE LOCATED IN THE SAME FAN GROUP AS THE SUPPLY FAN.
- THE SYSTEM SHALL OPERATE IN PREP MODE DURING LIGHT COOKING LOAD OR COOL DOWN MODE WHEN SUFFICIENT HEAT REMAINS UNDERNEATH THE HOOD SYSTEM AFTER COOKING OPERATIONS HAVE COMPLETED. OPERATION DURING EITHER OF THESE PERIODS WILL DISABLE THE SUPPLY FANS AND PROVIDE AN EXHAUST FAN SPEED THAT IS EQUAL TO THE MINIMUM 300 CFM VENTILATION REQUIREMENT.
- A DIGITAL CONTROLLER SHALL DISABLE THE SUPPLY FAN(S), ACTIVATE THE EXHAUST FAN(S), ACTIVATE THE APPLIANCE SHUNT TRIP, AND DISABLE AN ELECTRIC GAS VALVE AUTOMATICALLY WHEN FIRE CONDITION IS DETECTED ON A COVERED HOOD.
- A DIGITAL CONTROLLER SHALL ALLOW FOR EXTERNAL BMS FAN CONTROL VIA DRY CONTACT (EXTERNAL CONTROL SHALL NOT OVERRIDE FAN OPERATION LOGIC AS REQUIRED BY CODE).
- AN LCD INTERFACE SHALL BE PROVIDED WITH THE FOLLOWING FEATURES:
  - A. ON/OFF PUSH BUTTON FAN & LIGHT SWITCH ACTIVATION.
  - B. INTEGRATED GAS VALVE RESET FOR ELECTRONIC GAS VALVES (NO RESET RELAY REQUIRED).
  - C. VFD FAULT DISPLAY WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
  - D. DUCT TEMPERATURE SENSOR FAILURE DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
  - E. MIS-WIRED DUCT TEMPERATURE SENSOR DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
  - F. A SINGLE LOW VOLTAGE CAT-5 RJ45 WIRING CONNECTION.
  - G. AN ENERGY SAVINGS INDICATOR THAT UTILIZES MEASURED KWH FROM THE VFDS.



TYPICAL HOOD CONTROL PANEL INSTALLATION

SEQUENCE OF OPERATIONS:

THE HOOD CONTROL PANEL IS CAPABLE OF OPERATING IN ONE OR MORE OF THE FOLLOWING STATES AT ANY GIVEN TIME:

- 1. EMS scheduled occupancy start / stop.
  2. Room thermostat and humidistat to control compressor and hot gas re-heat (factory controls).
  3. Human-Machine Interface for programmable occupancy.
  4. Start RTU fan one hour prior to occupancy and open outside air damper to minimum position see table on M3.00 with indoor fan operational as required to flush room of contaminants prior to occupancy. Economizer to function if available for cooling.
  5. When hoods are off, unit shall operate as a single zone VAV unit.
  6. Staged air volume.
  7. Fan shall stage from full airflow (100%) in full cooling or heating to 66% airflow in first stage heating or cooling, or when unit is satisfied. Indoor fan shall continue running during all occupied hours.
  8. Outside air damper shall also stage with supply fan as required to maintain minimum prescribed airflow.
  9. Sequence of operation for kitchen hoods and make-up-air unit are built into the Captive Aire control panel. See sheets M-5.01 thru 5.09.
  10. Outside air shall stage as required for make-up-air to exhaust hoods.
- FIRE: UPON ACTIVATION OF THE HOOD FIRE SUPPRESSION SYSTEM, THE EXHAUST FAN WILL COME ON OR CONTINUE TO TO RUN, THE HOOD MAKEUP AIR WILL SHUTDOWN, AND A SIGNAL WILL BE SENT FOR ACTIVATING THE SHUNT TRIP BREAKER PROVIDED BY THE ELECTRICIAN. FUEL GAS WILL SHUT OFF VIA A MECHANICAL/ELECTRICAL GAS VALVE ACTUATED BY THE HOOD FIRE SUPPRESSION SYSTEM.

AGENCY

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DATE: 03/24/2023

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CONSULTANT

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MARK JAMES ROBINSON
No. M26
EXP. 6-30-24
MECHANICAL
STATE OF CALIFORNIA

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Revisions

No.	Date	Description

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT
ROSAMOND HIGH SCHOOL
CAFETERIA BUILDING
2925 ROSAMOND BLVD.
ROSAMOND, CA 93560

KITCHEN EQUIPMENT CONTROL DETAILS

Job No. 2990

Date 06-07-22

M5.07

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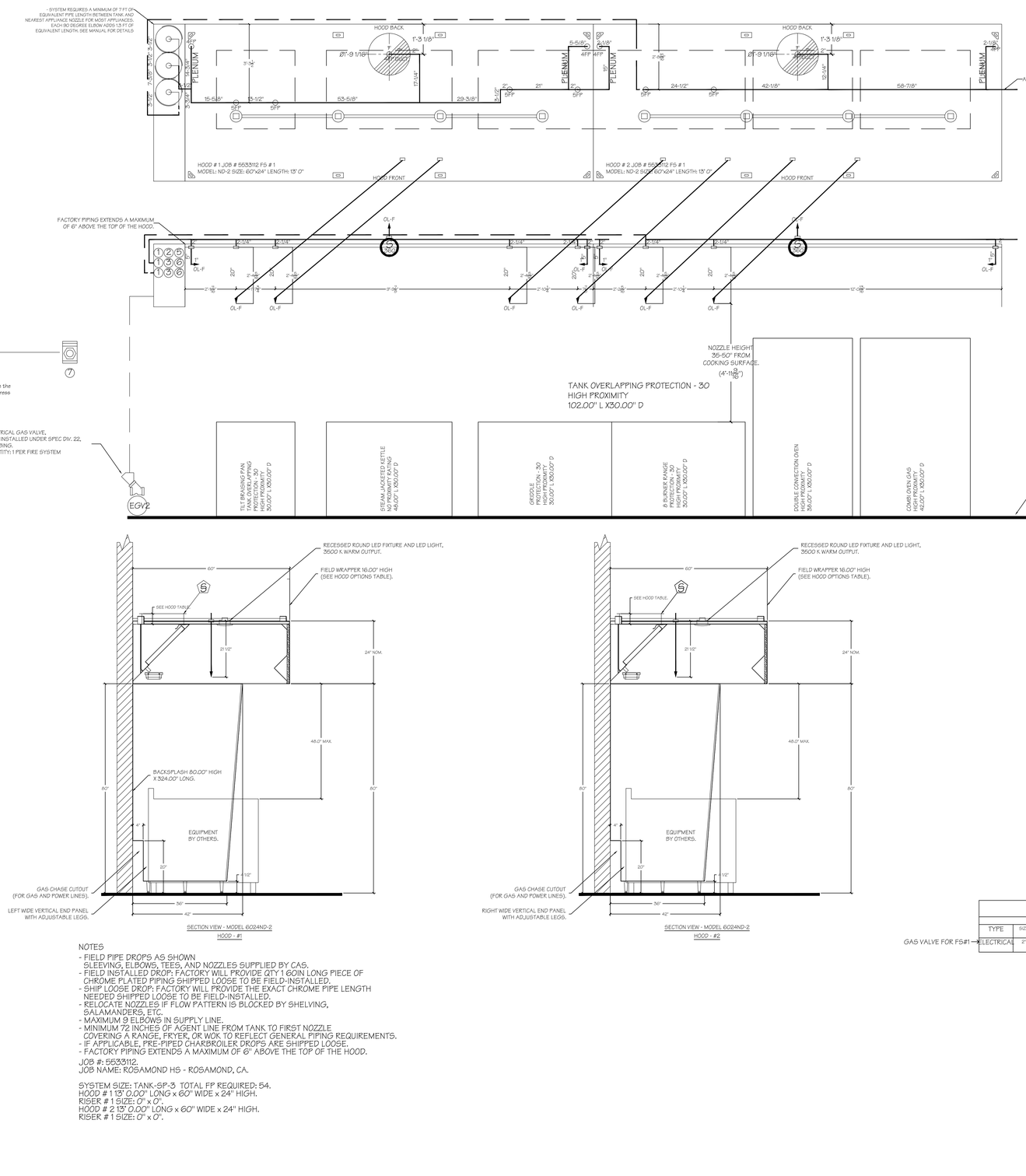
Plt: 11-03-22



SECTION VIEW - MODEL 6024ND-2
HOOD - #1

SECTION VIEW - MODEL 6024ND-2
HOOD - #2

NOTES
- FIELD PIPE DROPS AS SHOWN
  SLEEVING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS.
- FIELD INSTALLED DROP: FACTORY WILL PROVIDE QTY 1 60IN LONG PIECE OF CHROME PLATED PIPING SHIPPED LOOSE TO BE FIELD-INSTALLED.
- SHIP LOOSE DROP: FACTORY WILL PROVIDE THE EXACT CHROME PIPE LENGTH NEEDED SHIPPED LOOSE TO BE FIELD-INSTALLED.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.
- MAXIMUM 9 ELBOWS IN SUPPLY LINE.
- MINIMUM 72 INCHES OF AGENT LINE FROM TANK TO FIRST NOZZLE COVERING A RANGE, FRYER, OR WOK TO REFLECT GENERAL PIPING REQUIREMENTS.
- IF APPLICABLE, PRE-PIPED CHARBROILER DROPS ARE SHIPPED LOOSE.
- FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.

JOB #: 5533112.
JOB NAME: ROSAMOND HS - ROSAMOND, CA.

SYSTEM SIZE: TANK-SP-3 TOTAL FP REQUIRED: 54.
HOOD # 1 13' 0.00" LONG x 60" WIDE x 24" HIGH.
RISER # 1 SIZE: 0" x 0".
HOOD # 2 13' 0.00" LONG x 60" WIDE x 24" HIGH.
RISER # 1 SIZE: 0" x 0".

NOTES
- FIELD PIPE DROPS AS SHOWN
  PIPING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS.
- FIELD INSTALLED DROP: FACTORY WILL PROVIDE QTY 2 60IN LONG PIECES OF CHROME PLATED PIPING SHIPPED LOOSE TO BE FIELD-INSTALLED.
- SHIP LOOSE DROP: FACTORY WILL PROVIDE THE EXACT CHROME PIPE LENGTH NEEDED SHIPPED LOOSE TO BE FIELD-INSTALLED.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.
- OVERLAPPING COVERAGE SHALL NOT BE USED ON ANY APPLIANCE WITH AN OBSTRUCTION.
- IF APPLICABLE, EXTENDED PRE-PIPED DROPS ARE SHIPPED LOOSE.
- FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.

- APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.

- THIS FIRE SYSTEM COMPLIES WITH U.L. 300 REQUIREMENTS.

- OL-F NOZZLE PART NUMBER REPLACES 3070-3/8H-10-SS

JOB #: 5533112.
JOB NAME: ROSAMOND HS - ROSAMOND, CA.

SYSTEM SIZE: TANK-SP-3 TOTAL FP REQUIRED: 54.
HOOD # 1 13' 0.00" LONG x 60" WIDE x 24" HIGH.
RISER # 1 SIZE: 16" DIA.
HOOD # 1 METAL BLOW-OFF CAPS INCLUDED.
HOOD # 2 13' 0.00" LONG x 60" WIDE x 24" HIGH.
RISER # 1 SIZE: 16" DIA.
HOOD # 2 METAL BLOW-OFF CAPS INCLUDED.

- HEAVY-DUTY APPLIANCES (RATED 600°F) WILL REQUIRE AN ADDITIONAL DOWNSTREAM FIRESTAT IN THE EVENT THAT THE DUCTWORK CONTAINS ANY HORIZONTAL RUNS OVER 25 FT IN LENGTH.
- MEDIUM TO LIGHT-DUTY APPLIANCES (RATED 450°F) WILL NOT REQUIRE ANY ADDITIONAL DOWNSTREAM DETECTION.

LEGEND - FIRE CABINET TANK SYSTEM

1 4 GALLON TANK.
2 PRIMARY ACTUATOR RELEASE.
3 SECONDARY ACTUATOR RELEASE.
4 PRESSURE SUPERVISION SWITCH.
5 PRIMARY HOSE ASSEMBLY.
6 SECONDARY HOSE ASSEMBLY.
7 REMOTE MANUAL ACTUATION DEVICE.

FIRE SYSTEM INFORMATION - JOB#5533112

FIRE SYSTEM NO	TAG	TYPE	SIZE	FLOW POINTS	INSTALLATION	
					SYSTEM	LOCATION ON HOOD
1		TANK FS	4.0/4.0/4.0	54	FIRE CABINET LEFT	LEFT, HOOD 1

GAS VALVE(S)

FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1		SC ELECTRICAL	2.000	CAPTIVEAIRE SYSTEMS

FIRE SYSTEM PARTS LIST KEY

FIRE SYSTEM NO	TAG	KEY NUMBER - PART DESCRIPTION	QTY BY FACTORY	QTY BY DIST
1		O - O - 12-F28021-32144-07-360 DUCT FIRE THERMOSTAT WITH 12 FOOT WIRE LEADS. NO, CLOSE ON TEMP RISE AT 360°F.	2	0
		O - O - 361091 3/8" BRASS PLUG.	5	0
		O - O - 78425 3/8" NPT FEMALE TO 1/2" MALE PROPRESS ADAPTER.	5	0
		O - O - 87-120042-001 SECONDARY ACTUATOR VALVE (SVA) - SINGLE ACTUATOR, REQUIRES PRIMARY RELEASE ACTUATOR, TANK FIRE SUPPRESSION.	2	0
		O - O - 87-120045-001 HOSE, SECONDARY ACTUATOR HOSE, 7.5" BRAIDED STAINLESS STEEL, TANK FIRE SUPPRESSION.	2	0
		O - O - 87-300001-001 TANK - PRESSURIZED TANK USED FOR TANK FIRE SUPPRESSION.	3	0
		O - O - 87-300050-001 PRIMARY ACTUATOR KIT (PAK) - ACTUATOR AND RELEASE SOLENOID ASSEMBLY, ONE NEEDED PER FIRE SYSTEM, SUPERVISED, TANK FIRE SUPPRESSION.	1	0
		O - O - 87-300152-001 HARDWARE, SVA BOLTS, TANK FIRE SUPPRESSION.	12	0
		O - O - 90954655PC PKG PRESS 1/2 PRESS X PRESS 90 ELBOW LD.	14	0
		O - O - 90972200PC PKG PRESS PC611 1/2 PRESS TEE LD.	11	0
		O - O - 9869AM115 HARDWARE, DATANKLOCK LOCKING BRACKET SQUARE NUTS 5/16" ZINC, TANK FIRE SUPPRESSION.	6	0
		O - O - A0034332 JUNCTION BOX FOR MANUAL PULL STATION, 1.5" DEEP BACK BOX, RED COLOR.	1	0
		O - O - B1145 3/8" BLACK IRON 90 ELL.	6	0
		O - O - DATANKLOCK DISCHARGE ADAPTER TANK LOCKING PLATE FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	3	0
		O - O - SLPCON-03FT SUPERVISED LOOP CONNECTION KIT. CONTAINS THE PARTS NEEDED TO CONNECT THE SUPERVISED LOOP BETWEEN END TO END HOODS WITH LESS THAN A 2' GAP. KIT CONTAINS 5 FEET OF BLACK MG WIRE, 5 FEET OF TAN MG WIRE, 3 FEET OF FLEXIBLE CONDUIT, AND TWO 7/8" CONNECTORS.	2	0
		O - O - SLPCON-55FT SUPERVISED LOOP CONNECTION KIT. CONTAINS THE PARTS NEEDED TO CONNECT THE SUPERVISED LOOP BETWEEN HOODS WITH UP TO 48' GAP. KIT CONTAINS 57 FEET OF BLACK MG WIRE, 57 FEET OF TAN MG WIRE, 55 FEET OF FLEXIBLE CONDUIT, AND TWO 7/8" CONNECTORS.	1	0
		O - O - TANK STRAP TANK STRAP - USED FOR TANK FIRE SUPPRESSION.	9	0
		O - O - TFS-UCTANKBRACKET TANK, BRACKET FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	3	0
		O - O - WK-283952-000 DISCHARGE ADAPTER, TANK FIRE SUPPRESSION.	3	0
		16 - 16 - 79210 1/2" X 3/8" NPT MALE ADAPTER, VIEGA.	12	0
		16 - 16 - OL-F NOZZLE - TANK PROTECTION APPLIANCE COVERAGE NOZZLE (INCLUDES METAL BLOW OFF CAP, LANYARD, USED WITH CHROME-PLATED PIPE) - 4 FLOW POINTS.	12	0
		26 - 26 - QSA-3/8 QUIK SEAL - 3/8" (UL).	12	0
		34 - 34 - A0034331 24VDC SINGLE ACTION MANUAL ACTUATION DEVICE (PUSH/PULL STATION) WITH PROTECTIVE COVER, ONE (1) NORMALLY OPEN CONTACT. RED COLOR.	1	0

GAS VALVES AND STRAINERS

GAS VALVE FOR FS#1 →

GAS VALVE SIZING						GAS VALVE DIMENSIONS					INSTALLATION	PART NUMBERS		
TYPE	SIZE	VOLTAGE	MIN. INLET PRESSURE	MAX. INLET PRESSURE	FLOW AT 1 IN.W.C. DROP NATURAL GAS	FLOW AT 1 IN.W.C. DROP PROPANE	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "E"	DIM "G"	MOUNTING ORIENTATION	GAS VALVE PART NUMBER	STRAINER PART NUMBER	GAS VALVE/STRAINER KIT
ELECTRICAL	2"	120 VAC	.7 PSI (7.0 W.C.)	5 PSI (13.8 IN.W.C.)	2,840,500 BTU/HR	1,808,048 BTU/HR	7-5/8"	6-3/8"	7-1/4"	7-15-16"	15-5/8"	13-15/16"	HORIZONTAL/ VERTICAL	8214280	44176.68	(SC)EGV2

ALL GAS VALVES/STRAINERS

PROPER CLEARANCE MUST BE PROVIDED IN ORDER TO SERVICE THE STRAINER. A MINIMUM OF 4" CLEARANCE DISTANCE MUST BE PROVIDED AT THE BASE OF THE STRAINER. CUSTOMER MUST VERIFY BTU CONSUMPTION AS WELL AS PRESSURE RATING. SPECIFIC GRAVITY OF NATURAL GAS = 0.64, SPECIFIC GRAVITY OF LP = 1.52.

CALCULATIONS

TO CALCULATE GAS FLOW FOR OTHER THAN 1 IN.W.C. PRESSURE DROP
NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP) X NEW PRESSURE DROP$^{0.5}$
TO CALCULATE GAS FLOW FOR OTHER THAN 0.64 SPECIFIC GRAVITY
NEW BTU/HR = (BTU/HR AT 0.64) X (0.64 / NEW SPECIFIC GRAVITY)$^{0.5}$.

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BASKIN MECHANICAL ENGINEERS
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Bakersfield, CA 93301
Tel: (661) 397-2114
Job: 22002
Plt: 11-03-22

AGENCY

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122536 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/24/2023

FLEWELLING & MOODY
architecture planning interiors

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An Employee Owned Corporation

ARCHITECT

LICENSED ARCHITECT
C-26053
Ren. Date 08/31/2023
STATE OF CALIFORNIA

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER
MARK JAMES MECHANICAL
No. M26?
Exp. 06-30-24
STATE OF CALIFORNIA

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Revisions

No.	Date	Description

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared for a specific site. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Flewelling & Moody.

SOUTHERN KERN UNIFIED SCHOOL DISTRICT
ROSAMOND HIGH SCHOOL

CAFETERIA BUILDING

2925 ROSAMOND BLVD.
ROSAMOND, CA 93560

MECHANICAL CAPTIVEAIRE SHEETS

Job No.
2990

Date
06-07-22

M5.08

Project Name:	Cafeteria Building	NRCC-PRF-01-E	Page 1 of 13
Project Address:	2925 Rosamond Blvd. Rosamond 93560	Calculation Date/Time:	16:08, Thu, Aug 11, 2022
Input File Name:	Cafeteria Bldg.cibd19x		

A. GENERAL INFORMATION

1	Project Location (city)	Rosamond	8	Standards Version	Compliance2019
2	CA Zip Code	93560	9	Compliance Software (version)	EnergyPro 8.2
3	Climate Zone	14	10	Weather File	LANCASTER_723816_CZ2010.epw
4	Total Conditioned Floor Area in Scope	6,037 ft²	11	Building Orientation (deg)	(N) 0 deg
5	Total Unconditioned Floor Area	0 ft²	12	Permitted Scope of Work	NewEnvelopeAndMechanical
6	Total # of Stories (Habitable Above Grade)	1	13	Building Type(s)	Nonresidential
7	Total # of dwelling units	0	14	Gas Type	NaturalGas

B. PROJECT SUMMARY

Table Instructions: Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within permit application.

Building Components Complying via Performance						Building Components Complying Prescriptively	
Envelope (see Table G)	☒ Performance	Covered Process: Commercial Kitchens		☒ Performance		*The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E).*	
	☐ Not Included			☐ Not Included			
Mechanical (see Table H)	☒ Performance	Covered Process: Computer Rooms		☐ Performance		Indoor Lighting (Unconditioned)§140.6	*NRCC-LTI-E*
	☐ Not Included			☒ Not Included		Outdoor Lighting §140.7	*NRCC-LTO-E*
Domestic Hot Water (see Table I)	☒ Performance	Covered Process: Laboratory Exhaust		☐ Performance		Sign Lighting §140.8	*NRCC -LTS-E*
	☐ Not Included			☒ Not Included		Mandatory Measures	
Lighting (Indoor Conditioned, see Table K)	☐ Performance					*Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)*	
	☒ Not Included					Electrical Power Distribution S110.11	*NRCC-ELC-E*
Solar Thermal Water Heating (see Table I)	☐ Performance					Commissioning S120.8	*NRCC-CXR-E*
	☒ Not Included					Solar Ready S110.10	*NRCC-SRA-E*

Project Name:	Cafeteria Building	NRCC-PRF-01-E	Page 2 of 13
Project Address:	2925 Rosamond Blvd. Rosamond 93560	Calculation Date/Time:	16:08, Thu, Aug 11, 2022
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C1. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft ²-yr)

COMPLIES

Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Space Heating	32.64	12.00	20.64
Space Cooling	168.33	145.45	22.88
Indoor Fans	195.04	240.61	-45.57
Heat Rejection	--	--	--
Pumps & Misc.	--	--	--
Domestic Hot Water	60.97	58.48	2.49
Indoor Lighting	76.65	76.65	--
ENERGY STANDARDS COMPLIANCE TOTAL	**533.63**	**533.19**	**0.44 (0.1%)**

[1] Notes: The number in parenthesis following the Compliance Margin in column 4. represents the Percent Better than Standard.

C2. RESULTS FOR 'ABOVE CODE' QUALIFICATIONS[1]

☐ This project is pursuing CalGreen Tier 1 ☐ This project is pursuing CalGreen Tier 2

Miscellaneous Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Receptacle	135.58	135.58	--
Process	383.11	383.11	--
Other Ltg	--	--	--
Process Motors	--	--	--
COMPLIANCE TOTAL PLUS MISCELLANEOUS COMPONENTS	**1,052.32**	**1,051.88**	**0.4 (0.0%)**

[1] Notes: This table is used to document compliance with programs OTHER THAN Title 24 Part 6, if applicable.

Project Name:	Cafeteria Building	NRCC-PRF-01-E	Page 3 of 13
Project Address:	2925 Rosamond Blvd. Rosamond 93560	Calculation Date/Time:	16:08, Thu, Aug 11, 2022
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C3. ENERGY USE SUMMARY

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	--	0.3	--	95.7	30.8	64.9
Space Cooling	25.1	21.4	3.7	--	--	--
Indoor Fans	39.2	47.9	-8.7	--	--	--
Heat Rejection	--	--	--	--	--	--
Pumps & Misc.	--	--	--	--	--	--
Domestic Hot Water	0.1	--	--	200.6	194.6	6.0
Indoor Lighting	15.8	15.8	0.0	--	--	--
Compliance Total	**80.2**	**85.4**	**-5.2**	**296.3**	**225.4**	**70.9**
Receptacle	22.1	22.1	0.0	94.3	94.3	0.0
Process	80.6	80.6	0.0	--	--	--
Other Ltg	--	--	--	--	--	--
Process Motors	--	--	--	--	--	--
TOTAL	**182.9**	**188.1**	**-5.2**	**390.6**	**319.7**	**70.9**

D. EXCEPTIONAL CONDITIONS

This project includes partial performance compliance scope options. The building must show compliance with all other applicable compliance scope options (performance or prescriptively) before occupying.

The aged solar reflectance and aged thermal emittance must be listed in the Cool Roof Rating Council database of certified products. For projects where initial reflectance is used, the initial reflectance must be listed, and the aged reflectance is calculated by the software program and used in the compliance model.

This project uses the Simplified Geometry Performance Modeling Approach which is not capable of modeling daylighting controls and assumes the prescriptive Secondary Daylit Control requirements are met. PRESCRIPTIVE COMPLIANCE documentation (form NRCC-LTI-02-E) for the requirements of section 140.6(d) Automatic Daylighting Controls in Secondary Daylit Zones is required.

E. HERS VERIFICATION

This Section Does Not Apply

Project Name:	Cafeteria Building	NRCC-PRF-01-E	Page 4 of 13
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Input File Name:	Cafeteria Bldg.cibd19x		

G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

Opaque Surfaces & Orientation	Total Gross Surface Area (ft²)	Total Fenestration Area (ft²)	Window to Wall Ratio (%)
North-Facing[1]	1,803 ft²	197 ft²	10.9%
East-Facing[2]	1,454 ft²	42 ft²	02.9%
South-Facing[3]	810 ft²	75 ft²	09.3%
West-Facing[4]	809 ft²	12 ft²	01.5%
Total	**4,876 ft²**	**326 ft²**	**06.7%**
Roof	6,037 ft²	0 ft²	00.0%

Notes:
[1] North-Facing is oriented to within 45 degrees of true north, including 45°00'00" east of north (NE), but excluding 45°00'00" west of north (NW).
[2] East-Facing is oriented to within 45 degrees of true east, including 45°00'00" south of east (SE), but excluding 45°00'00" north of east (NE).
[3] South-Facing is oriented to within 45 degrees of true south, including 45°00'00" west of south (SW), but excluding 45°00'00" east of south (SE).
[4] West-Facing is oriented to within 45 degrees of true west, including 45°00'00" north of due west (NW), but excluding 45°00'00" south of west (SW).

G2. CRRC ROOFING PRODUCT SUMMARY

Assembly Name	Roof Pitch	Aged Solar Reflectance	Thermal Emittance	SRI
R-38 Roof No Attic8	Low-Slope	0.10	0.85	Not Provided
R-38 Roof Attic21	Low-Slope	0.30	0.75	Not Provided

G3. OPAQUE SURFACE ASSEMBLY SUMMARY

Surface Name	Surface Type	Area (ft²)	Framing Type	Cavity R-Value	Continuous R-Value	Units	Value	Description of Assembly Layers	Status[1]
R-38 Roof No Attic8	Roof	4774	Wood	38	NA	U-Factor	0.029	Asphalt shingles - 1/4 in. Vapor permeable felt - 1/8 in. Plywood - 1/2 in. Air - Cavity - Wall Roof Ceiling - 4 in. or more Wood framed roof, 16in. OC, 11.25in., R-38 Gypsum Board - 1/2 in.	N

Project Name:	Cafeteria Building	NRCC-PRF-01-E	Page 5 of 13
Project Address:	2925 Rosamond Blvd. Rosamond 93560	Calculation Date/Time:	16:08, Thu, Aug 11, 2022
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G3. OPAQUE SURFACE ASSEMBLY SUMMARY

Surface Name	Surface Type	Area (ft²)	Framing Type	Cavity R-Value	Continuous R-Value	Units	Value	Description of Assembly Layers	Status[1]
R-21 Wall10	ExteriorWall	4876	Wood	21	NA	U-Factor	0.069	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Wood framed wall, 16in. OC, 5.5in., R-21 Gypsum Board - 1/2 in.	N
Slab On Grade19	UndergroundFloor	6037	NA	0	NA	F-Factor	0.73	Slab Type = UnheatedSlabOnGrade Insulation Orientation = None Insulation R-Value = R0	N
R-38 Roof Attic21	Roof	1263	Wood	38	NA	U-Factor	0.033	Asphalt shingles - 1/4 in. Vapor permeable felt - 1/8 in. Plywood - 1/2 in. Air - Cavity - Wall Roof Ceiling - 4 in. or more Wood framed roof, 24in. OC, 3.5in., R-38 Gypsum Board - 1/2 in.	N
R-0 Wall25	InteriorWall	629	NA	0	NA	U-Factor	0.337	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Air - Cavity - Wall Roof Ceiling - 4 in. or more Gypsum Board - 1/2 in.	N
R-21 Wall101	InteriorWall	120	Wood	21	NA	U-Factor	0.066	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Wood framed wall, 16in. OC, 5.5in., R-21 Gypsum Board - 1/2 in.	N

[1] Status: N - New, A – Altered, E – Existing

G4. OPAQUE DOOR SUMMARY

Assembly Name	Overall U-factor	Status[1]
Insulated Door49	0.200	N

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G5. FENESTRATION ASSEMBLY SUMMARY

Fenestration Assembly Name / Tag or I.D.	Fenestration Type / Product Type / Frame Type	Certification Method[1]	Assembly Method	Area ft²	Overall U-factor	Overall SHGC	Overall VT	Status[2]
PPG SOLARBAN 70 XL Clear	VerticalFenestration FixedWindow MetalFraming	COG Equations	SiteBuilt	200	0.29 (COG)	0.27 (COG)	0.63 (COG)	N
Single Metal Tinted	VerticalFenestration FixedWindow MetalFraming	Default Performance	SiteBuilt	126	1.19	0.68	0.77	N

[1] Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.
[2] Status: N – New, A – Altered, E – Existing

H1. DRY SYSTEM EQUIPMENT (furnaces, air handling units, heat pumps, VRF, economizers etc.)

Equipment Name	Equipment Type	Qty	Heating: Total Heating Output (kBtu/h)	Heating: Supp Heat Output (kBtuh)	Heating: Efficiency Unit	Heating: Efficiency	Cooling: Total Cooling Output (kBtu/h)	Cooling: Efficiency Unit	Cooling: Efficiency	Economizer Type (if present)	Status[1]
AC-1	SZVAVAC (Packaged3Phase)	1	142	0	AFUE	81.0	248	EER	10.9	DifferentialDryBulb	N
AC-2	SZVAVAC (Packaged3Phase)	1	80	0	AFUE	82.0	87	EER	11.2	DifferentialDryBulb	N
RTU-1	SZVAVAC (Packaged3Phase)	1	161	0	AFUE	81.0	253	EER	16.1	DxDifferentialDryBulb	N
HP-2	MiniSplitHP (Split1Phase)	1	33	0	HSPF	12.000	23	SEER EER	21.500 13.000	NA	N
HP-3	MiniSplitHP (Split1Phase)	1	33	0	HSPF	11.600	19	SEER EER	20.000 12.200	NA	N

[1] Status: N - New, A – Altered, E – Existing

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H2. FAN SYSTEMS SUMMARY[1]

Name or Item Tag	System Type packaged, DOAS, etc.	Design OA	Supply Fan: CFM	Supply Fan: BHP	Supply Fan: Watts	Supply Fan: Control	Return Fan: CFM	Return Fan: BHP	Return Fan: Watts	Return Fan: Control	Economizer Type (if present)	Status[2]
AC-1	SZVAVAC	1647	8000	5.000	4065.4	VariableSpeedDrive	NA	NA	NA	NA	DifferentialDryBulb	N
AC-2	SZVAVAC	695	3000	1.700	1465.3	VariableSpeedDrive	NA	NA	NA	NA	DifferentialDryBulb	N
RTU-1	SZVAVAC	170	3000	5.000	4065.4	VariableSpeedDrive	NA	NA	NA	NA	DifferentialDryBulb	N
HP-2	MiniSplitHP	0	700	0.050	43.6	ConstantVolume	NA	NA	NA	NA	NA	N
HP-3	MiniSplitHP	0	850	0.050	43.6	ConstantVolume	NA	NA	NA	NA	NA	N

[1] Status: N - New, A – Altered, E – Existing

H3. EXHAUST FAN SUMMARY

System ID	Zone Name	Qty	CFM	Motor BHP	Motor Watts	Total Static Pressure (in H20)
Kitchen27	3-Kitchen	1	5,830	2.500	2082.7	1.36

H4. Wet System Equipment (boilers, chillers, cooling towers, etc.)

Name or Item Tag	Equipment Type	Qty	Vol (gal)	Rated Capacity (kBtu/h)	Efficiency	Standby Loss	Pumps: Qty	Pumps: GPM	Pumps: HP	Pumps: VSD (Y/N)	Status[1]

[1] Status: N - New, A – Altered, E – Existing

Project Name:	Cafeteria Building	NRCC-PRF-01-E	Page 8 of 13
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H5. SYSTEM SPECIAL FEATURES

System Name	Optimum Start	Window Interlocks per §140.4(n)	Evaporative Cooling	Heat Recovery	Other Controls
AC-1	No Optimum Start	NA	No Evaporative Cooler	No Heat Recovery	1 Zones With CO2Sensor Vent. Control, No DDC Differential Drybulb Economizer No Supply Air Temp. Control
AC-2	No Optimum Start	NA	No Evaporative Cooler	No Heat Recovery	1 Zones With CO2Sensor Vent. Control, No DDC Differential Drybulb Economizer No Supply Air Temp. Control
RTU-1	No Optimum Start	NA	No Evaporative Cooler	No Heat Recovery	No DCV Controls, No DDC Differential Drybulb Economizer No Supply Air Temp. Control
Undefined Plant1 - SHW	NA	NA	NA	NA	Fixed Temperature Control, No DDC

Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E.

H6. MECHANICAL VENTILATION

Zone Name	Mechanical Ventilation: Ventilation Function	# hotel rooms	# of people	# of bedrooms	Supply OA CFM	Exhaust CFM	Conditioned Area (sf)	DCV or Occupant Sensor Controls, or Both
1-Undefined Zone	Food Service - Cafeteria/fast-food dining	0	106.74	0	1601	0	3202	NA
2-Serving Area	Food Service - Cafeteria/fast-food dining	0	42.10	0	631	0	1263	NA
3-Kitchen	Food Service - Kitchen (cooking)	0	2.83	0	170	5830	1134	NA
4-A La Carte Snack Bar	Retail - Sales	0	1.53	0	46	0	184	NA
5-ASB Snack Bar	Retail - Supermarket	0	2.12	0	64	0	254	NA

Multifamily or Hotel/Motel Occupancy? (if "Yes", see DOMESTIC/SERVICE HOT WATER SYSTEM SUMMARY)	No

Project Name:	Cafeteria Building	NRCC-PRF-01-E	Page 9 of 13
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Does the Project include Zonal Systems?	Yes

H7. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

System ID	Zone Name	System Type	Rated Capacity (kBtuh): Heating	Rated Capacity (kBtuh): Cooling	Airflow (cfm): Design	Airflow (cfm): Min.	Airflow (cfm): Min. Ratio	Fan: BHP	Fan: Watts	Fan: Cycles	Fan: ECM Motor
HP-2	4-A La Carte Snack Bar	MiniSplitHP	33.00	23.00	700	NA	NA	0.050	43.6	☐	☐
HP-3	5-ASB Snack Bar	MiniSplitHP	33.00	19.00	850	NA	NA	0.050	43.6	☐	☐
4-A La Carte Snack Bar-Trm	4-A La Carte Snack Bar	VAVNoReheatBox	NA	NA	700	462	0.66	NA	NA	NA	☐
1-Undefined Zone-Trm	1-Undefined Zone	VAVNoReheatBox	NA	NA	8000	5280	0.66	NA	NA	NA	☐
5-ASB Snack Bar-Trm	5-ASB Snack Bar	VAVNoReheatBox	NA	NA	850	561	0.66	NA	NA	NA	☐
2-Serving Area-Trm	2-Serving Area	VAVNoReheatBox	NA	NA	3000	1980	0.66	NA	NA	NA	☐
3-Kitchen-Trm	3-Kitchen	VAVNoReheatBox	NA	NA	3000	1950	0.65	NA	NA	NA	☐

H8. EVAPORATIVE COOLER SUMMARY

This Section Does Not Apply

I1. WATER HEATER EQUIPMENT SUMMARY

Name	Heater Element Type	Tank Type	Qty	Tank Vol (gal)	Rated Input	Rated Input Unit	Efficiency	Efficiency Unit	Tank Insulation R-value (Int/Ext)	Standby Loss Fraction	Heat Pump Type	1st Hour Rating or Flow Rate (gal)	Tank Location or Ambient Condition
A. O. SMITH BTR-1542	Gas	Storage	1	81.00	154	kBtu/h	0.85	Thrml. Eff.	NA	0.015	NA	NA	NA

AGENCY

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122536 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/24/2023

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An Employee Owned Corporation

ARCHITECT

REGISTERED ARCHITECT
C-26053
Ren. Date 08/31/2023
STATE OF CALIFORNIA

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER
MARK JAMES BASKIN
No. M26053
03-30-23
MECHANICAL
STATE OF CALIFORNIA

Drawn by

Checked by

Revisions

No.	Date	Description

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared for a specific site. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Flewelling & Moody.

SOUTHERN KERN UNIFIED SCHOOL DISTRICT
ROSAMOND HIGH SCHOOL
CAFETERIA BUILDING
2925 ROSAMOND BLVD.
ROSAMOND, CA 93560

TITLE 24 REPORT

Job No. 2990

Date 06-07-22

M6.00

BASKIN MECHANICAL ENGINEERS
2131 19th St, Suite B
Bakersfield, CA 93301
Tel: (661) 397-2114
Job: 22002
Plt: 11-03-22

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J2. COMMERCIAL KITCHENS

1	2	3	4	5
Space Name	**Exhaust Hood Style**	**Exhaust Hood Duty**	**Exhaust Length (ft)**	**Exhaust Flow Rate (cfm)**
S-3-Kitchen	WallMountedCanopy	Medium	21	5,830
	None	Light		
		Light		
		Light		
		Light		

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L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents bust be retained and provided to the building inspector during construction and can be found online at: https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Building Component	Form/Title
Envelope	NRCI-ENV-01-E - Must be submitted for all buildings
Mechanical	NRCI-MCH-01-E - Must be submitted for all buildings
Plumbing	NRCI-PLB-01-E - Must be submitted for all buildings
Covered Process	NRCI-PRC-01-E - Must be submitted for all Covered Processes

Project Name:	Cafeteria Building	NRCC-PRF-01-E	Page 12 of 13
Project Address:	2925 Rosamond Blvd. Rosamond 93560	Calculation Date/Time:	16:08, Thu, Aug 11, 2022
Input File Name:	Cafeteria Bldg.cibd19x		

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit:https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Building Component	Form/Title
Envelope	NRCA-ENV-02-F - NRFC label verification for fenestration
Covered Process	NRCA-PRC-02-F - Kitchen Exhaust
Mechanical	NRCA-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap
	NRCA-MCH-03-A Constant Volume Single Zone HVAC
	NRCA-MCH-05-A Air Economizer Controls
	NRCA-MCH-06-A Demand Control Ventilation Systems Acceptance must be submitted for all systems required to employ demand controlled ventilation (refer to §120.1(c)3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints
	NRCA-MCH-07-A Supply Fan Variable Flow Controls
	NRCA-MCH-12-A FDD for Packaged Direct Expansion Units
	NRCA-MCH-20 Multifamily Ventilation

Project Name:	Cafeteria Building	NRCC-PRF-01-E	Page 13 of 13
Project Address:	2925 Rosamond Blvd. Rosamond 93560	Calculation Date/Time:	16:08, Thu, Aug 11, 2022
Input File Name:	Cafeteria Bldg.cibd19x		

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Mike Mundschau	Signature:
Company: Baskin Mechanical Engineers	
Address: 2131 19th St. Suite B	Signature Date: 2022-08-11
City/State/Zip: Bakersfield California 93301	CEA/ HERS Certification Identification (if applicable): M37211
Phone: (661) 397-2114	

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Envelope Designer Name: Matthew Buchanan	Signature:	
Company: Flewelling & Moody		
Address: 1035 West Lancaster Boulevard	Date Signed:	
City/State/Zip: Lancaster California 93534		
Phone: (661)949-0771	Title:	License #: C-26053
Responsible Lighting Designer Name:	Signature: NOT IN SCOPE	
Company:		
Address:	Date Signed:	
City/State/Zip:		
Phone:	Title:	License #:
Responsible Mechanical Designer Name: Mark Baskin	Signature:	
Company: Baskin Mechanical Engineers		
Address: 2131 19th St. Suite B	Date Signed: 8/11/22	
City/State/Zip: Bakersfield California 93301		
Phone: (661)397-2114	Title:	License #: M26578

AGENCY

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122536 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/24/2023

FLEWELLING & MOODY
architecture planning interiors

HEADQUARTERS OFFICE:
815 Colorado Blvd, Suite 200
Los Angeles, CA 90041
P 323.543.8300
E-Mail: fm-pasadena@flewelling-moody.com

ANTELOPE VALLEY OFFICE:
1035 West Lancaster Boulevard
Lancaster, California 93534
P 661.949.0771
E-Mail: fm-lancaster@flewelling-moody.com

An Employee Owned Corporation

ARCHITECT

LICENSED ARCHITECT
MATTHEW BUCHANAN
C-26053
Ren. Date 08/31/2023
STATE OF CALIFORNIA

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER
MARK JAMES BASKIN
No. M26578
EXP. 9-30-23
MECHANICAL
STATE OF CALIFORNIA

Drawn by

Checked by

Revisions

No.	Date	Description

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared for a specific site. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Flewelling & Moody.

SOUTHERN KERN UNIFIED
SCHOOL DISTRICT
ROSAMOND HIGH SCHOOL

CAFETERIA BUILDING

2925 ROSAMOND BLVD.
ROSAMOND, CA 93560

TITLE 24 REPORT

Job No.
2990

Date
06-07-22

M6.01

BASKIN MECHANICAL ENGINEERS
2131 19th St, Suite B
Bakersfield, CA 93301
Tel: (661) 397-2114
Job: 22002
Plt: 11-03-22

ELECTRICAL SYMBOLS

A 5a A 5a	LIGHTING FIXTURES, "5" DENOTES CIRCUIT NUMBER, LOWER CASE "a" DENOTES CONTROLLING SWITCH, UPPER CASE "A" DENOTES FIXTURE TYPE.
	LED STRIP LIGHTS.
B	RECESSED CEILING MOUNTED FIXTURE: UPPER LETTER INDICATES TYPE (U.O.N.).
H	WALL MOUNTED LIGHT FIXTURE: UPPER LETTER INDICATES TYPE.
	EXIT SIGN WITH JUNCTION BOX APPROVED FOR THROUGH WIRING. UNIVERSAL MOUNT. DIRECTIONAL ARROW AS SHOWN ON PLAN.
	LED LIGHTING FIXTURE WITH EMERGENCY BATTERY PACK.
	LED LIGHTING FIXTURES ON EMERGENCY UNIT INVERTER SYSTEM.
A	PANEL DESIGNATION, LETTER IDENTIFIES THE PANEL.
	DUPLEX RECEPTACLE: 125V., 15 AMP., NEMA 5-15R. +18" A.F.F. TO BOTTOM OF BOX UNLESS OTHERWISE NOTED.
	CEILING MOUNTED DUPLEX RECEPTACLE: 20A, NEMA 5-20R.
WP	WEATHERPROOF "GFI" RECEPTACLE: 125V., 15 AMP., NEMA 5-15R. +18" A.F.F. TO BOTTOM OF BOX.
WP L	WEATHERPROOF WHILE IN USE LOCKABLE "GFI" RECEPTACLE: 125V., 15 AMP., NEMA 5-15R. +18" A.F.F. TO BOTTOM OF BOX.
	GROUND FAULT INTERRUPTER TYPE DUPLEX RECEPTACLE: 125V., 15 AMP., NEMA 5-15R. +18" UNLESS OTHERWISE NOTED. +42" NEAR SINK.
	DUPLEX RECEPTACLE: 220V, 20 AMP., NEMA 6-20R, +18" A.F.F. UNLESS OTHERWISE NOTED.
	TWIST LOCK PLUG NEMA L5-30P.
	JUNCTION BOX: MOUNT +18" UNLESS NOTED OTHERWISE.
	JUNCTION BOX: MOUNTED IN ATTIC SPACE OR UNDER CANOPY.
	IDF RACK "TRIPP-LITE #SR4POST1224 WITH VERTICAL CABLE MANAGER "TRIPP-LITE #SRCABLEDUCTVRT". UPS "CYBER POWER # PR3000RTXL2UHVAN" AND EXTENDED BATTERY "#BP48VP2U03
	CAMERA - FLUSH SINGLE GANG DEEP TYPE BOX, + A.F.F. PROVIDE CAT-6a JACK WITH CAT-6a CABLE TO IDF RACK.
CB	CLOCK-BELL - "VALCOM #VIP-429A-D-IC", FLUSH BACKBOX "#VB-R22". PROVIDE CAT-6a JACK WITH CAT-6a CABLE TO IDF RACK.
H	EXTERIOR HORN "VALCOM #VIP480AL-IC", FLUSH BACKBOX "#V-9805". PROVIDE CAT-6a JACK WITH CAT-6a CABLE TO IDF RACK.
VOIP	WIRELESS ACCESS POINT, WALL OR CEILING MOUNT. "RACKUS #R650" AND "#T750SE" WITH MOUNTING ACCESSORY. PROVIDE CAT-6a JACK WITH CAT-6a CABLE TO IDF RACK.
2D	DATA/TELEPHONE OUTLET, FLUSH 4S BOX WITH 3/4" CONDUIT TO CEILING SPACE. PROVIDE "TELEPHONE #CISCO #8811". PROVIDE CAT-6a JACK WITH CAT-6a CABLE TO IDF RACK.
4	QUAD CAT-6a JACK WITH CAT-6a CABLE. +18" A.F.F., U.O.N.
P	PENDANT MOUNT PROJECTOR "EPSON #V11HA68820" WITH COMPLETE MOUNTING ACCESSORIES AND RECESSED CEILING MOUNT PROJECTOR SCREEN "DA-LITE #21818L". - OUTDOOR TV DISPLAY "SAMSUNG #OM32H" WITH MOUNTING ACCESSORY "#FPWARTS1". - INDOOR TV DISPLAY "SAMSUNG #OM43B" WITH MOUNTING ACCESSORY "#FPWARTS1". - DINING HALL TV DISPLAY "SAMSUNG #BH65T" WITH MOUNTING ACCESSORY "#FPWARTS1".
1D	HDMI - FLUSH SINGLE GANG DEEP TYPE BOX WITH 3/4" CONDUIT TO CEILING SPACE AND "1D" CABLE TO IDF U.O.N. +18" A.F.F. U.O.N. HDMI OUTLET WITH CAT-6a CABLE TO IDF RACK.
X	XLR - FLUSH SINGLE GANG DEEP TYPE BOX WITH 3/4" C.O. TO CEILING SPACE.
X	XLR FLUSH TWO GANG DEEP TYPE BOX WITH 3/4" C.O. TO CEILING SPACE.
X2	XLR FLUSH TWO GANG DEEP TYPE BOX WITH (2) 3/4" C.O. TO CEILING SPACE.
AV	AV FLUSH SINGLE GANG DEEP TYPE BOX WITH 3/4" CONDUIT TO CEILING SPACE. PROVIDE CAT-6a JACK WITH CAT-6a CABLE TO IDF RACK.
AV	AV FLUSH CEILING MOUNT SINGLE GANG DEEP TYPE BOX. PROVIDE CAT-6a JACK WITH CAT-6a CABLE TO IDF RACK.
	SECURITY SYSTEM MOTION DETECTOR.
	POWER PACK "DOUGLAS #WP-PP20D".
	WALL MOUNTED LINE VOLTAGE OCCUPANCY SENSOR AT +48" A.F.F.
ab	WALL MOUNTED OCCUPANCY SENSOR WITH DUAL SWITCHING. +48" A.F.F.
H	0-10V DIMMER SWITCH, "DOUGLAS #WSD-3501".
H	0-10V DIMMER SWITCH, "DOUGLAS #WSW-3524".
H	DIGITAL KEYED SWITCH.
	CORNER WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR.
	CORNER WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR.
—LV—	1/2"C, 2#18 AWG LIGHTING CONTROL CABLE.
—DC—	2#16 TSP DIMMING CONTROL CABLE.
A-1,3,5	HOMERUN TO PANEL "A", CIRCUITS 1, 3, 5.
	CONDUIT: EXPOSED IN UNFINISHED AREAS; CONCEALED ABOVE CEILING OR IN WALL IN FINISHED AREAS.
	CONDUIT: IN OR BELOW FLOOR OR BELOW GRADE.

	3/4"C, 2#12 & 1#12 GND.		3/4"C, 3#12 & 1#12 GND.		3/4"C, 4#12, 1#12 GND.
	3/4"C, 5#12 & 1#12 GND.		1"C, 6#12 & 1#12 GND.		1"C, 8#12 & 1#12 GND.
#10	3/4"C, 2#10 & 1#10 GND.	#10	3/4"C, 3#10 & 1#10 GND.	#10	3/4"C, 4#10, 1#10 GND.
#10	3/4"C, 5#10 & 1#10 GND.	#10	1"C, 6#10 & 1#10 GND.	#10	1"C, 8#10 & 1#10 GND.
#6	3/4"C, 3#6 & 1#8 GND.	#4	1"C, 3#4 & 1#8 GND.		

	GROUND ROD IN GROUND YARD BOX.
	LIGHTING PANEL.
	POWER PANEL.
	MAIN SERVICE SWITCHBOARD.
OR	TRANSFORMER.
S_T	MANUAL MOTOR STARTER: TOGGLE TYPE WITHOUT THERMAL OVERLOAD PROTECTION.
S_P	TOGGLE TYPE SWITCH WITH PILOT LIGHT.
S_M	HORSEPOWER RATED, DISCONNECT SWITCH WITHOUT THERMAL OVERLOAD PROTECTION.
S_{2M}	HORSEPOWER RATED, 2P DISCONNECT SWITCH WITHOUT THERMAL OVERLOAD PROTECTION.
	FUSED DISCONNECT SWITCH H.P. RATED WITH CLASS "R" FUSECLIPS
	COMBINATION MAGNETIC STARTER AND FUSIBLE DISCONNECT SWITCH.
XFMR	TRANSFORMER.

A.I.C.	AMPERE INTERRUPTING CURRENT.	SWBD	SWITCHBOARD.	N.C.	NORMALLY CLOSED.
DPDT	DOUBLE POLE DOUBLE THROW.	C/B	CIRCUIT BREAKER.		
(E)	EXISTING.				
C.O.	CONDUIT ONLY WITH #12 PULL WIRE.				
(N)	NEW.	A.F.F	ABOVE FINISHED FLOOR.		
U.O.N.	UNLESS OTHERWISE NOTED.	W.P.	WEATHERPROOF.		
(TYP)	TYPICAL.				

CABLE TYPE

"S" CABLE - "WEST PENN" NO. 240, 2 PAIR #22 - SECURITY ZONE & POWER FEED.

"SW" CABLE - "WEST PENN" NO. AQC240, 2 PAIR #22 - SECURITY ZONE & POWER FEED (UNDERGROUND).

"SC" CABLE - "WEST PENN" NO. 240, 4#22 - SECURITY COMM. BUS., AQC 240 (WET LOC. TYPE).

"D" CABLE - 4 PAIR #24 UTP CATEGORY 6a CABLE AS MANUFACTURED BY COMSCOPE.

"DW" CABLE - 4 PAIR #24 UTP CATEGORY 6a CABLE AS MANUFACTURED BY COMSCOPE (WET LOCATION TYPE).

"FO" CABLE - FIBER OPTIC, 6 FIBERS SINGLE MODE.

SECURITY CABLE AND WIRING

—— 1S —— 3/4"CONDUIT WITH ONE "S" CABLE.

—— 2S —— 3/4"CONDUIT WITH TWO "S" CABLES.

—— 3S —— 3/4"CONDUIT WITH THREE "S" CABLES.

—— 4S —— 1"CONDUIT WITH FOUR "S" CABLES.

COMPUTER DATA/TELEPHONE/ PA/CLOCK/CCTV CABLE & WIRING

— 1D — 3/4" CONDUIT WITH ONE "D" CABLE.

— 2D — 3/4" CONDUIT WITH TWO "D" CABLES.

— 3D — 3/4" CONDUIT WITH THREE "D" CABLES.

— 4D — 3/4" CONDUIT WITH FOUR "D" CABLES.

— 5D — 1" CONDUIT WITH (5) "D" CABLES.

— 6D — 1" CONDUIT WITH (6) "D" CABLES.

GENERAL NOTES

1) ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE(S), OR ANY RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF SCHOOL DISTRICT ARCHITECT/ENGINEER OF RECORD PRIOR TO COMMENCING ANY WORK.

2) SPECIFIC COMPONENTS ON CATALOG CUT SHEETS MUST BE HIGHLIGHTED, OR IDENTIFIED.

3) PANELS MUST NOT BE MOUNTED HIGHER THAN 6 FEET AND SYSTEM STATUS DISPLAYS ARE TO BE AT EYE LEVEL (+60" AFF). NO EQUIPMENT OR RACEWAY MAY BE LOCATED UNDER A CABINET CONTAINING BATTERIES.

4) CONSULT WITH THE DISTRICT'S ELECTRICAL INSPECTOR BEFORE STARTING WORK.

5) ALL EXPOSED CONDUITS AND BOXES SHALL BE PAINTED TO MATCH THE SURFACES WHERE INSTALLED.

6) ALL EXISTING MATERIALS REMOVED FROM BUILDINGS SHALL BE REMOVED FROM SITE AS DIRECTED BY THE DISTRICT ELECTRICAL INSPECTOR.

7) WHERE EXISTING STRUCTURAL WALLS ARE CORED FOR NEW CONDUIT RUNS, SEPARATION BETWEEN CORED HOLES SHALL BE THREE INCHES FROM NEW OR EXISTING HOLES, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

8) THE REPRESENTATION OF PHYSICAL PLACEMENT OF EXISTING CONDUITS HAS BEEN DEVELOPED FROM THE BEST INFORMATION AVAILABLE TO THE DISTRICT AT THE TIME THE DRAWINGS WERE PREPARED. THE DISTRICT PROVIDES THIS ONLY AS A GENERAL GUIDELINE FOR THE CONVENIENCE OF BIDDERS/CONTRACTORS AND DOES NOT GUARANTEE OR WARRANT IN ANY WAY EXPRESSLY OR IMPLIEDLY, THE ACCURACY OF THESE REPRESENTATIONS. NOTHING IN THIS DISCLAIMER AFFECTS IN ANY WAY THE DUTY OF THE CONTRACTOR TO FURNISH ACCURATE "AS BUILT" DRAWINGS AFTER THE COMPLETION OF THE CONTRACT.

9) IN EXISTING BUILDINGS, CONTRACTORS SHALL NOT WORK IN AREAS CONTAMINATED BY MATERIALS MADE OF ASBESTOS UNTIL THE ASBESTOS MATERIALS HAVE BEEN REMOVED OR ENCAPSULATED.

10) REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND EQUIPMENT AND MATERIAL APPROVED FOR USE UNDER THIS CONTRACT.

11) EXISTING FIRE ALARM SYSTEM AND SECURITY SYSTEM MUST REMAIN IN OPERATION UNTIL NEW SYSTEM IS COMPLETE, APPROVED AND OPERATIONAL.

12) QUANTITY OF WIRES SHOWN IN ALL CONDUITS IS FOR GENERAL GUIDELINE. SUPPLIER OF AUXILIARY SYSTEM (FA, TEL, SECURITY) SHALL PREPARE CONSTRUCTION DRAWINGS SHOWING ALL NECESSARY WIRES AND CABLES AND VERIFY SIZES OF ALL CONDUITS SHOWN. PROVIDE ALL SPARE WIRES BETWEEN DRAWINGS DO NOT SHOW ALL THE NECESSARY J-BOXES AND PULL BOXES WHICH WILL BE REQUIRED THROUGHOUT.

13) IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL THESE BOXES AS NECESSARY TO TERMINATE CONDUITS AND RACEWAYS. PAINT BOXES TO MATCH COLOR OF THE FINISHED SURFACE THAT THE BOXES ARE ATTACHED BUILDINGS.

14) ALL JUNCTION BOXES AND DEVICES INDICATED ON BUILDING EXTERIORS SHALL BE WEATHERPROOF TYPE.

15) ALL SIGNAL WIRING IN UNDERGROUND CONDUITS SHALL BE WET LOCATION TYPE.

16) COORDINATION:
A. THE GENERAL CONTRACTOR SHALL COORDINATE LAYOUT DIMENSIONS INDICATED ON ELECTRICAL. ALL DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER BEFORE BID TIME, OR BEFORE PROCEEDING WITH THE WORK.

B. IN THE EVENT THAT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY SHOWN ON THE CONSTRUCTION DOCUMENTS, THEN THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS SIMILAR CONDITIONS THAT ARE SHOWN.

C. THE CONTRACTOR SHALL VERIFY ALL ELECTRICAL, COMMUNICATION AND SECURITY REQUIREMENTS BEFORE CONSTRUCTION BEGINS.

17) ALL DIMENSIONS, ELEVATIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED ON THE SITE BY GENERAL CONTRACTOR, AND EACH SUB-CONTRACTOR BEFORE THE WORK BEGINS. ERRORS, OMISSIONS AND DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION BEFORE CONSTRUCTION BEGINS.

18) THE ENGINEER HAS PREPARED THESE DOCUMENTS ONLY FOR IMPROVEMENTS SPECIFIED, DETAILED OR SHOWN AS NEW WORK, AND ASSUMES NO RESPONSIBILITY FOR OTHER CONSTRUCTION, MATERIAL OR EQUIPMENT NOTED AS "EXISITNG" OR AS "PROVIDED BY OTHERS".

19) IF USE OF WIREMOLD IS DESIRED, CONTRACTOR SHALL OBTAIN A LETTER FROM AOR AUTHORIZING USE OF WIREMOLD PRIOR TO INSTALLATION.

20) DRAWINGS ARE BASED ON AVAILABLE AS-BUILT PLANS AND FIELD OBSERVATIONS. NOTIFY THE AUTHORIZED OWNER REPRESENTATIVE (AOR) IMMEDIATELY WHEREVER (E) CONDITIONS ENCOUNTERED DEVIATE FROM THESE DRAWINGS AND EXISTING EQUIPMENT MUST BE RELOCATED DUE TO NEW CONSTRUCTION EFFORTS.

21) PROVIDE GROUND BUSHING ON NEW AND EXISTING PULLBOXES.

22) IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY THE TYPE OF CEILING CONSTRUCTION AND TO PROVIDE THE PROPER TYPE OF BOX MOUNTING AND SUPPORT FOR FIRE ALARM INITIATION DEVICES AND ALL OTHER LOW VOLTAGE/SIGNAL SYSTEMS.

23) ANY DAMAGE CAUSED BY DEMOLITION OPERATIONS TO ADJACENT FACILITIES SHALL BE PROMPTLY REPAIRED AT NO ADDITIONAL COST TO THE OWNER. ALL ITEMS MOVED OR TEMPORARILY DISASSEMBLED SHALL BE REPLACED OR REASSEMBLED TO AT LEAST THE CONDITION IN LIKE QUALITY PRIOR TO REMOVAL OR DISASSEMBLY.

24) GENERAL CONTRACTOR TO HIRE HVAC CONTRACTOR TO MODIFY/INTERFACE HAVC EQUIPMENT TO THE NEW FIRE ALARM.

25) THE COLOR CODE FOR WIRE INSULATION IN THE LOW VOLTAGE SPECIFICATIONS SHOULD BE FOLLOWED.

26) SEAL ALL SPACE AROUND CONDUIT PENETRATION THROUGH FIRE RATED WALL WITH A UL LISTED FIRE BARRIER COMPOUND "3M" CAULKING OR EQUAL.

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	FINISH	LED	DRIVER	WATTAGE	MANUFACTURER & PART NUMBER	REMARKS
A1	8FT INDIRECT DIRECT LED LINEAR 7IN WIDE BY 2IN DEEP. CENTER WHITE ACRYLIC LENS 60% UP AND 40% DOWN WITH LOW PEAK ANGLE UPLIGHT	WHITE	1 - 82.4W LED 4K	0 - 10V DIMMING 1%	82.4	LITE CONTROL - SAE-104-P-LPA-8-8-SOF-C1-40K-130-4D-DO1-IC-UNV-FA3	PENDANT 26 LBS
A2	8FT INDIRECT DIRECT LED LINEAR 7IN WIDE BY 2IN DEEP. CENTER WHITE ACRYLIC LENS 60% UP AND 40% DOWN WITH LOW PEAK ANGLE UPLIGHT	WHITE	1 - 106.4 LED 4K	0 - 10V DIMMING 1%	106.4	LITE CONTROL - SAE-104-P-LPA-8-8-SOF-C1-40K-155-2D-DO1-IC-UNV-FA3	PENDANT 24LBS
B	2X4 NSF LISTED TROFFER IP66 ALUMINUM HOUSING AND STAINLESS STEEL DOOR 304 STAINLESS STEEL. 125 PRISMATIC POLYCARBONATE LENS INVERTER	WHITE	1 - 55W LED 4K	0 - 10V DIMMING	55	KURTZON - FP-R-4-2X4-2-LEDR-840-UNV-LEX-F2NC PROVIDE SURFACE VERSION IF REQUIRED BY ARCHITECT	RECESSED 25LBS
B1	2X4 NSF LISTED TROFFER IP66 ALUMINUM HOUSING AND STAINLESS STEEL DOOR 304 STAINLESS STEEL. 125 PRISMATIC POLYCARBONATE LENS INVERTER	WHITE	1 - 35W LED 4K	0 - 10V DIMMING	35	KURTZON - FP-R-4-2X4-2-LEDR-840-UNV-LEX-F2NC-P35W PROVIDE SURFACE VERSION IF REQUIRED BY ARCHITECT	RECESSED 25LBS
C	1X4 RECESSED FLAT PANEL LIGHTING WITH SIDE LITE LEDS FOR LOW GLARE	WHITE	1 - 59W LED 4K	0 - 10V DIMMING	59	COLUMBIA - SRP14-40-VL-G-ED-U PROVIDE SURFACE VERSION IF REQUIRED BY ARCHITECT	RECESSED 20 LBS
CE	1X4 RECESSED FLAT PANEL LIGHTING WITH SIDE LITE LEDS FOR LOW GLARE	WHITE	1 - 59W LED 4K	0 - 10V DIMMING	59	COLUMBIA - SRP14-40-VL-G-ED-U-ELL14 PROVIDE SURFACE VERSION IF REQUIRED BY ARCHITECT	RECESSED 20 LBS
C1	1X4 RECESSED FLAT PANEL LIGHTING WITH SIDE LITE LEDS FOR LOW GLARE	WHITE	1 - 43W LED 4K	0 - 10V DIMMING	43	COLUMBIA - SRP14-40-HL-G-ED-U PROVIDE SURFACE VERSION IF REQUIRED BY ARCHITECT	RECESSED 20 LBS
C2	1X4 RECESSED FLAT PANEL LIGHTING WITH SIDE LITE LEDS FOR LOW GLARE	WHITE	1 - 39W LED 4K	0 - 10V DIMMING	39	COLUMBIA - SRP14-40-ML-G-ED-U PROVIDE SURFACE VERSION IF REQUIRED BY ARCHITECT	RECESSED 20 LBS
C2E	1X4 RECESSED FLAT PANEL LIGHTING WITH SIDE LITE LEDS FOR LOW GLARE	WHITE	1 - 39W LED 4K	0 - 10V DIMMING	39	COLUMBIA - SRP14-40-ML-G-ED-U-ELL14 PROVIDE SURFACE VERSION IF REQUIRED BY ARCHITECT	RECESSED 20 LBS
C3	1X4 RECESSED FLAT PANEL LIGHTING WITH SIDE LITE LEDS FOR LOW GLARE	WHITE	1 - 32W LED 4K	0 - 10V DIMMING	32	COLUMBIA - SRP14-40-LW-G-ED-U PROVIDE SURFACE VERSION IF REQUIRED BY ARCHITECT	RECESSED 20 LBS
C4	1X4 RECESSED FLAT PANEL LIGHTING WITH SIDE LITE LEDS FOR LOW GLARE	WHITE	1 - 27W LED 4K	0 - 10V DIMMING	27	COLUMBIA - SRP14-40-MW-G-ED-U PROVIDE SURFACE VERSION IF REQUIRED BY ARCHITECT	RECESSED 20 LBS
D1	4FT LED LINEAR WITH SATIN LENS NO BREAK IN LENS	WHITE	1 - 22.4W LED 4K	0 - 10V DIMMING 1%	22.4	PRUDENTIAL - BPRO4-REC-FLSH-LED4-MO-4-TMW-SAL-LP-SC-UNV-X(TBD)-DM01	RECESSED 13 LBS
D2	8FT LED LINEAR WITH SATIN LENS NO BREAK IN LENS	WHITE	1 - 30.4W LED 4K	0 - 10V DIMMING 1%	30.4	PRUDENTIAL - BPRO4-REC-FLSH-LED4-LO-8-TMW-SAL-LP-SC-UNV-X(TBD)-DM01	RECESSED 29 LBS
D3	12FT LED LINEAR WITH SATIN LENS NO BREAK IN LENS	WHITE	1 - 45.6W LED 4K	0 - 10V DIMMING 1%	45.6	PRUDENTIAL - BPRO4-REC-FLSH-LED4-LO-12-TMW-SAL-LP-SC-UNV-X(TBD)-DM01	RECESSED 42 LBS
EX	DIE CAST ALUMINUM EXIT SIGN	STANDARD FINISH	1 - 1W LED GREEN	NON DIM	1	EVENLITE - CCDS-AC-G-1/2-TBD	TBD 5.25 LBS EM 4.51LBS AC
F	10IN WIDE BY 13.5 IN TALL PENDANT WITH DUAL LAYER ACRYLIC LENS WITH OUTER GLOW DAMP LISTED	STANDARD FINISH	1 - 25W LED 4K	0 - 10V DIMMING 1%	25	OCL - LE1-TBD-10-MW-FINISH-LED2-40K-UNV-48-DM1-ULD	PENDANT 8 LBS
G	6IN LED DOWNLIGHT WITH CLEAR POLYCARBONATE LENS	WHITE FLANGE	1 - 21.6W LED 4K	0 - 10V DIMMING	21.6	VANTAGE LIGHTING - A6VFLED-U-15-40K-L6011P-SGC-ZDM	RECESSED 6LBS
H	12.5IN ROUND EXTERIOR OPAL LENS ADA	STANDARD FINISH	1 - 17W LED 4K	0 - 10V DIMMING	17	NEW STAR - GW-R-O-MD-40-UN-FINISH	SURFACE 15 LBS

CODES, STANDARDS & GUIDES

PARTIAL LIST OF APPLICABLE CODES AS OF January 1, 2020*
2019 California Administrative Code (CAC), Part 1, Title 24 CCR*
2019 California Building Code (CBC), Part 2, Title 24 CCR
(2018 International Building Code, Vol. 1 & 2, and 2019 California amendments)
2019 California Electrical Code (CEC), Part 3, Title 24 CCR
(2017 National Electrical Code and 2019 California Amendments)
2019 California Mechanical Code (CMC), Part 4, Title 24 CCR
(2018 IAPMO Uniform Mechanical Code and 2019 California amendments)
2019 California Plumbing Code (CPC), Part 5, Title 24 CCR
(2018 IAPMO Uniform Plumbing Code and 2019 California amendments)
2019 California Energy Code (CEC), Part 6, Title 24 CCR
2019 California Fire Code (CFC), Part 9, Title 24 CCR
(2018 International Fire Code and 2019 California Amendments)
2019 California Existing Building Code (CEBC), Part 10, Title 24 CCR
(2018 International Existing Building Code and 2019 California Amendments)
2019 California Green Building Standards Code (CALGreen), Part 11, Title 24 CCR
2019 California Referenced Standards Code, Part 12, Title 24 CCR
Title 19 CCR, Public Safety, State Fire Marshal Regulations

PARTIAL LIST OF APPLICABLE STANDARDS
NFPA 13 - Standard for the Installation of Sprinkler Systems (CA amended).....2016 Edition
NFPA 14 - Standard for the Installation of Standpipe and Hose Systems (CA amended)....2016 Edition
NFPA 17 - Standard for Dry Chemical Extinguishing Systems.....2017 Edition
NFPA 17A - Standard for Wet Chemical Extinguishing Systems.....2017 Edition
NFPA 20 - Standard for the Installation of Stationary Pumps for Fire Protection.....2016 Edition
NFPA 72 - National Fire Alarm and Signaling Code (CA amended).....2016 Edition
NFPA 80 - Standard for Fire Doors and Other Opening Protectives.....2016 Edition
NFPA 2001 - Standard on Clean Agent Fire Extinguishing Systems (CA amended).....2015 Edition
UL 300 - Standard for Fire Testing of Fire Extinguishing Systems for Protection of Commercial Cooking Equipment.....2005 (R2010)
UL 464 - Audible Signaling Devices for Fire Alarm and Signaling Systems, Including Accessories.....2003 Edition
UL 521 - Standard for Heat Detectors for Fire Protective Signaling Systems.....1999 Edition
UL 1971 - Standard for Signaling Devices for the Hearing Impaired.....2002 (R2010)

For a complete list of applicable NFPA standards refer to 2019 CBC (SFM) Chapter 35 and California Fire Code Chapter 80.

See California Building Code Chapter 35 for State of California amendments to the NFPA Standards.

*All parts of the 2019 California Building Code become effective January 1, 2020 except the effective date for the use of the 2019 Building Energy Efficiency Standards (Title 24, Part 1, Chapter 10) is January 8, 2019 and the effective date for the use of the California Administrative Code (Title 24, Part 1, Chapter 4) is January 8, 2019.

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 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:

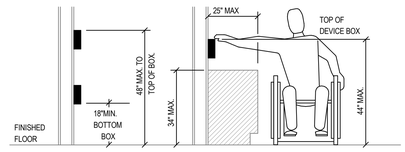
A. Components weighing less than 400 pounds and having a center of mass located 4 feet or less above the adjacent floor or roof level that directly support the component.
B. Components weighing less than 20 pounds, or in the case of distributed systems, less than 5 pounds per foot, which are suspended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

Mechanical Piping (MP), Mechanical Ducts (MD), Plumbing Piping (PP), Electrical Distribution Systems (E):
MP☐ MD☐ PP☐ E☑ - Option 1: Detailed on the approved drawings with project specific notes and details.
MP☐ MD☐ PP☐ E☐ - Option 2: Shall comply with the applicable OSHPD Pre-Approval (OPM #) #____.



MOUNTING HEIGHTS

N.T.S. OUTLETS, INTERCOM, CONTROLS, ETC.

TYPICAL MOUNTING HEIGHTS ABOVE FINISHED FLOOR (UNLESS OTHERWISE NOTED ON DRAWINGS)

+48": A.F.F. TO TOP OF BOX:	LIGHT SWITCHES, DIMMER SWITCHES, FIRE ALARM PULL STATION, DUCT DETECTOR TEST PANEL, INTERCOM CALL SWITCH, SPEAKER VOLUME CONTROL, T-STATS, BY-PASS TIMER WALL TELEPHONE.
+18" A.F.F. TO BOTTOM OF BOX:	ALL DUPLEX RECEPTACLES, WALL OUTLET FOR DESK TELEPHONE, COMPUTER OUTLET, UNLESS OTHERWISE NOTED.

AGENCY

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122536 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/24/2023

FLEWELLING & MOODY
architects *for* education

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An Employee Owned Corporation

ARCHITECT

LICENSED ARCHITECT — C – 26053 — Ren. Date 08/31/2023 — STATE OF CALIFORNIA

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER — ELECTRICAL — E21979 — Exp. 09/30/23 — STATE OF CALIFORNIA

PACIFIC ENGINEERS GROUP
Consulting Electrical Engineers
1106 W. Magnolia Blvd., Suite A
Burbank, CA 91506
(818) 859-7081 Y22-141

Drawn by: HY
Check by: AF
Revisions

No.	Date	Description

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared for a specific site. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Flewelling & Moody.

SOUTHERN KERN UNIFIED SCHOOL DISTRICT

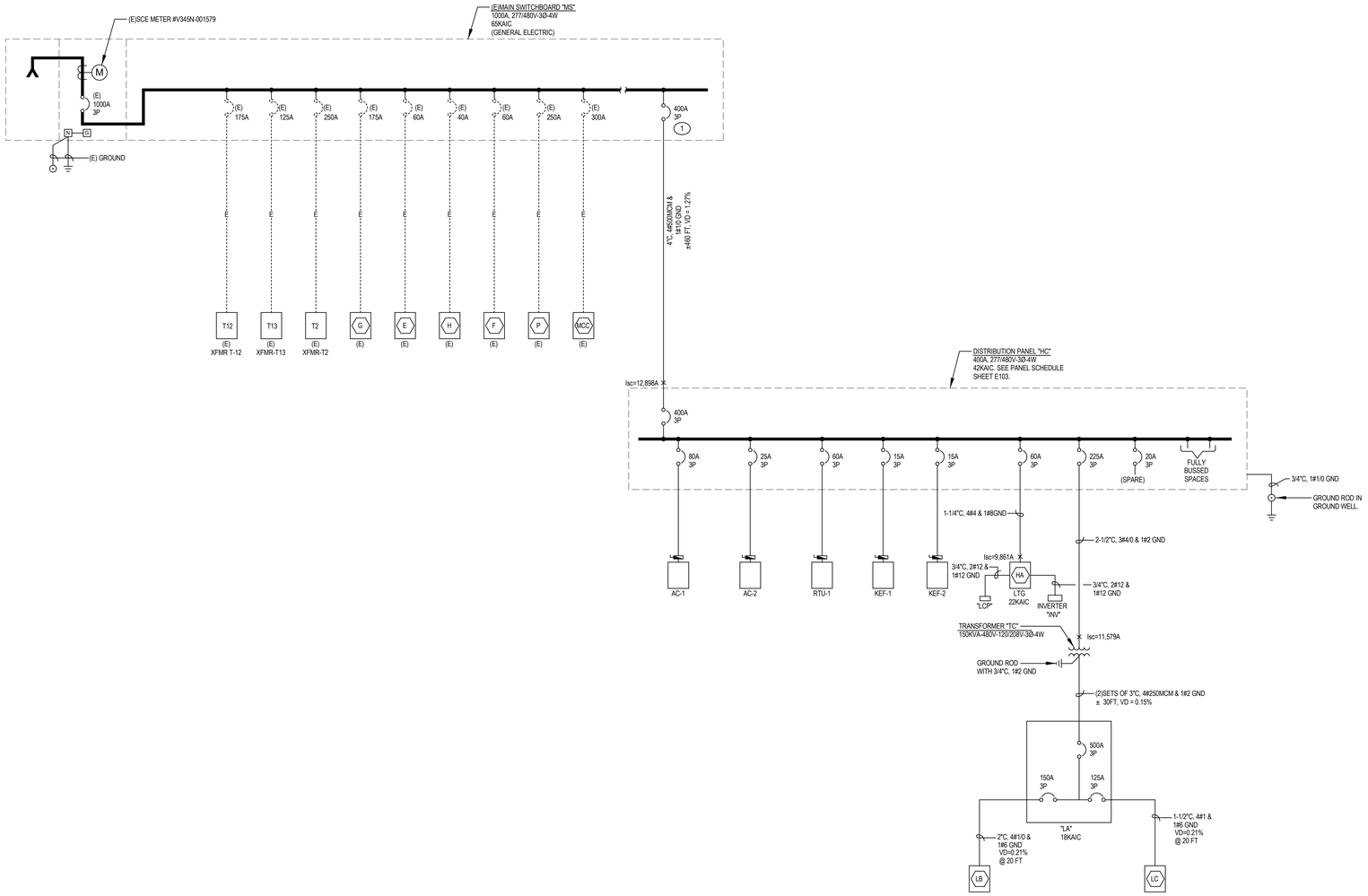
ROSAMOND HIGH EARLY COLLEGE CAMPUS

2925 ROSAMOND BLVD.
ROSAMOND, CA 93560

Drawing Title

ELECTRICAL SYMBOL LIST, NOTES & DETAIL

Job No. 2990.000
Date 01.30.2023
Sheet No. **E101**



SINGLE LINE DIAGRAM

N.T.S.

KEYED NOTES

(1) PROVIDE NEW (1)400 AMPS, 3 POLE, 480 VOLTS CIRCUIT BREAKER WITH MOUNTING ACCESSORY. NEW CIRCUIT BREAKER TO MATCH EXISTING AND A.I.C. RATING.

AGENCY

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Revisions

No.	Date	Description

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared for a specific site. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Flewelling & Moody.

SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

2925 ROSAMOND BLVD.
ROSAMOND, CA 93560

Drawing Title

SINGLE LINE DIAGRAM

Job No. 2990.000

Sheet No. **E102**

Date 01.30.2023

DISTRIBUTION PANEL HC

277/480 VOLTS
3 PHASE
4 WIRE

LOCATION ELEC ROOM 17
FEEDER

MAIN BKR: 400A, 3P, 480V CB
ENTER CAB'T. AT

400 A. BUSSING
SURFACE MTG.

LOCATION	WATTAGE PH - A	WATTAGE PH - B	WATTAGE PH - C	LTG	REC	MIS	CIR	BKR			BKR	CIR	MIS	REC	LTG	WATTAGE PH - A	WATTAGE PH - B	WATTAGE PH - C	LOCATION
AC-1	16406					1	1	80-3	@	@	20-3	2	1			2809			AC-1 POWER EXHAUST 4HP
-----		16406				-	3	-			-	4	-				2809		-----
-----			16406			-	5	-			-	6	-					2809	-----
AC-2	4786					1	7	25-3	@	@	15-3	8	1			775			AC-2 POWER EXHAUST 1HP
-----		4786				-	9	-			-	10	-				775		-----
-----			4786			-	11	-			-	12	-					775	-----
RTU-1	7747					1	13	60-3	@	@	15-3	14	1			1053			KEF-2
-----		7747				-	15	-			-	16	-				1053		-----
-----			7747			-	17	-			-	18	-					1053	-----
KEF-1	1053					1	19	15-3	@		20-3	20	1						SPARE
-----		1053				-	21	-			-	22	-						-----
-----			1053			-	23	-			-	24	-						-----
SPACE							25	SPC			SPC	26							SPACE
SPACE							27	SPC			SPC	28							SPACE
SPACE							29	SPC			SPC	30							SPACE
SPACE							31	SPC			SPC	32							SPACE
SPACE							33	SPC			SPC	34							SPACE
SPACE							35	SPC			SPC	36							SPACE
SUBFEED PANEL "HA"	2306					1	37	60-3			225-3	38	1			44322			SUBFEED XFMR "TC" PANEL "LA"
-----		1083				-	39	-			-	40	-				42872		-----
-----			1739			-	41	-			-	42	-					41458	-----

PH - A= 81257 VA PH - B= 78584 VA PH - C= 77826 VA

TOTAL CONNECTED LOAD: 237667 VA OR 286 AMPS @ 277/480 VOLTS -- 3 Ø

LCL: 0 VA X 125% = 0 VA

FDL: 237667 VA + 0 VA (LCL) = 237667 VA OR 286

@ - USE HACR TYPE CIRCUIT BREAKER.

PANEL HA

277/480 VOLTS
3 PHASE
4 WIRE

LOCATION ELEC ROOM 17
FEEDER

MAIN BKR: MAIN LUGS ONLY
ENTER CAB'T. AT

125 A. BUSSING
SURFACE MTG.

LOCATION	WATTAGE PH - A	WATTAGE PH - B	WATTAGE PH - C	LTG	REC	MIS	CIR	BKR			BKR	CIR	MIS	REC	LTG	WATTAGE PH - A	WATTAGE PH - B	WATTAGE PH - C	LOCATION
LTG DINING HALL RM 02	1154			14			1	20-1	A		20-1	2			8	393			LTG RMS 09,11,12,13 & 17
LTG DINING HALL RM 02		243		7			3	20-1	A	A	20-1	4			10		653		LTG SERVING & MAIN KITCHEN
LTG SERVING AREA RM 08			534	23			5	20-1	A		20-1	6			10			440	LTG RMS 03,04,05,06,07 & 18
LTG EXTERIOR DINING AREA	459			17			7	20-1	A		20-1	8	1			300			LCP
LTG EXTERIOR WALL		187		11			9	20-1			20-1	10	SPR						SPARE
INVERTER			765				11	20-1			20-1	12	SPR						SPARE
SPARE						SPR	13	20-1			SPC	14							SPACE
SPARE						SPR	15	20-1			SPC	16							SPACE
SPARE						SPR	17	20-1			SPC	18							SPACE
SPACE							19	SPC			SPC	20							SPACE
SPACE							21	SPC			SPC	22							SPACE
SPACE							23	SPC			SPC	24							SPACE

PH - A= 2306 VA PH - B= 1083 VA PH - C= 1739 VA

TOTAL CONNECTED LOAD: 5128 VA OR 6.171 AMPS @ 277/480 VOLTS -- 3 Ø

LCL: 4063 VA X 125% = 5079 VA

FDL: 1065 VA + 5079 VA (LCL) = 6143.8 VA OR 7.393

NOTE: PROVIDE TIE BARS DISCONNECTING MEANS TO CIRCUIT BREAKERS SERVING MULTI=WIRE CIRCUITS (SHARED NEUTRAL CONDUCTOR).
A - CIRCUIT IS CONTROLLED BY "LCP".

EMERGENCY INVERTER "INV"

277 VOLTS INPUT
277 VOLTS OUTPUT
1 PHASE
3 WIRE

MAIN BRK: 20A, 1P, 277V
BUS RATING/TYPE: 70A, 14KAIC
LOCATION: ELECTRICAL ROOM
FEEDER: 2#12 & 1#12G
MOUNTING: FLOOR

CK #	LOCATION	WATTAGE	LTG	REC	MIS	BKR	
1	LTG DINING & MAIN ENTRY	240	5			20-1	A
2	LTG SERVING & KITCHEN	323	4			20-1	A
3	LTG EXT DINING	108	4			20-1	A
4	LTG EXTERIOR ENTRY	90	5			20-1	A
5	EXIT SIGN	4	4			20-1	
6	SPARE					20-1	
	TOTAL (VA)	765					

TOTAL CONNECTED LOAD: 765 VA OR 2.7617 AMPS

NOTE: PROVIDE TIE BARS DISCONNECTING MEANS TO CIRCUIT BREAKERS SERVING MULTI-WIRE CIRCUITS (SHARED NEUTRAL CONDUCTOR).
A - CIRCUIT IS CONTROLLED BY "LCP".

INVERTER INV SHALL BE "EVENLITE #LM 1600-1P-IB-OB-C6-TA"

PANEL LA

120/208 VOLTS
3 PHASE
4 WIRE

LOCATION ELEC ROOM 17
FEEDER

MAIN BKR: 500A, 3P, 240V CB
ENTER CAB'T. AT

600 A. BUSSING
SURFACE MTG.

LOCATION	WATTAGE PH - A	WATTAGE PH - B	WATTAGE PH - C	LTG	REC	MIS	CIR	BKR			BKR	CIR	MIS	REC	LTG	WATTAGE PH - A	WATTAGE PH - B	WATTAGE PH - C	LOCATION
AIR COOLED CONDENSER & EVAPORATOR	2640					1	1	35-3	@	@	60-3	2	1			4164			AIR COOLED CONDENSER & EVAPORATOR
-----		2640				-	3	-			-	4	-				4164		-----
-----			2640			-	5	-			-	6	-					4164	-----
SUMP PUMP	1872					1	7	30-3	@		60-3	8	1			5520			DISHWASHING MACHINE
-----		1872				-	9	-			-	10	-				5520		-----
-----			1872			-	11	-			-	12	-					5520	-----
FREEZER LTG	120			4			13	20-1			35-2	14	1			2640			ROOF HP-3
COOLER LTG		120		4			15	20-1			-	16	-				2640		-----
DRY STORAGE LTG			120	4			17	20-1			35-2	18	1					2640	ROOF HP-2
EXHAUST FAN-1	500					1	19	20-1			-	20	-			2640			-----
RECEPTACLE - IT ROOM 06		180			1		21	20-1			35-2	22	1				2640		ROOF HP-1
INTRUSION CONTROL PANEL			500			1	23	20-1			-	24	-					2640	-----
EXHAUST FAN-2	120					1	25	20-1			20-1	26	1			20			TIME CLOCK
EXHAUST FAN-3		150				1	27	20-1			20-1	28					900		IRRIGATION CONTROLLER
EXHAUST HOOD CONTROL PANEL			500			1	29	20-1		*	20-1	30						1176	TOTAL PAC X-DRY SYS.
SPARE							31	20-1			20-1	32							SPARE
SPARE							33	20-1			20-1	34							SPARE
SPARE							35	20-1			20-1	36							SPARE
SUBFEED PANEL "LB"	13338						37	150-3			125-3	38	1			10748			SUBFEED PANEL "LC"
-----		14898					39	-			-	40	-				7148		-----
-----			10734				41	-			-	42	-					8952	-----

PH - A= 44322 VA PH - B= 42872 VA PH - C= 41458 VA

TOTAL CONNECTED LOAD: 128652 VA OR 357.4 AMPS @ 120/208 VOLTS -- 3 Ø

LCL: 360 VA X 125% = 450 VA

FDL: 128292 VA + 450 VA (LCL) = 128742 VA OR 357.6

@ - USE HACR TYPE CIRCUIT BREAKER.
* - PROVIDE LOCK-ON DEVICE AND PAINT RED PER NFPA REQUIREMENT.

PANEL LB

120/208 VOLTS
3 PHASE
4 WIRE

LOCATION ELEC ROOM 17
FEEDER

MAIN BKR: MAIN LUGS ONLY
ENTER CAB'T. AT

225 A. BUSSING
SURFACE MTG.

LOCATION	WATTAGE PH - A	WATTAGE PH - B	WATTAGE PH - C	LTG	REC	MIS	CIR	BKR			BKR	CIR	MIS	REC	LTG	WATTAGE PH - A	WATTAGE PH - B	WATTAGE PH - C	LOCATION
ICE MACHINE RM 9	1920					1	1	20-2		$	20-2	2	1			450			COMB. OVEN GAS
-----		1920				-	3	-			-	4	-				450		-----
REACH-IN REFRIGERATOR RM 9			900				5	20-1		$	20-2	6	1					450	COMB. OVEN GAS
ULTRA NX - RM 9	1800						7	20-1			-	8	-			450			-----
ULTRA NX - RM 9		1800					9	20-1			20-1	10		2			1800		RECEPTACLE
RECEPTACLE RM 9			540		3		11	20-1			20-1	12		2				1200	RECEPTACLE
HEATED HOLDING CABINET	1560					1	13	20-2			20-1	14		2		360			RECEPTACLE
-----		1560				-	15	-			20-1	16		4			720		RECEPTACLE
REFRIGERATOR, PASS-THRU			1020			1	17	20-1			20-1	18	1					1728	AIR CURTAIN
HEATED HOLDING CABINET	1560					1	19	20-2			20-1	20		2		1200			RECEPTACLE
-----		1560				-	21	-			20-1	22		2			1200		RECEPTACLE
HOT FOOD DROP-IN WELL			1044			1	23	20-2			20-2	24	1					1044	HOT FOOD DROP-IN WELL
-----	1044					-	25	-			-	26	-			1044			-----
HOT FOOD DROP-IN WELL		1044				1	27	20-2			20-2	28	1				1044		HOT FOOD DROP-IN WELL
-----			1044			-	29	-			-	30	-					1044	-----
REFRIGERATED SELF SVC	1800					1	31	20-1		*	20-1	32	1			150			LIGHTING CONTACTOR
REFRIGERATED SELF SVC		1800				1	33	20-1			20-1	34							SPARE
ROOF RECEPTACLE			720		4		35	20-1			20-1	36							SPARE
SPACE							37	SPC			20-1	38							SPARE
SPACE							39	SPC			20-1	40							SPARE
SPACE							41	SPC			20-1	42							SPARE

PH - A= 13338 VA PH - B= 14898 VA PH - C= 10734 VA

TOTAL CONNECTED LOAD: 38970 VA OR 108.3 AMPS @ 120/208 VOLTS -- 3 Ø

LCL: 0 VA X 125% = 0 VA

FDL: 38970 VA + 0 VA (LCL) = 38970 VA OR 108.3

* - PROVIDE LOCK-ON DEVICE AND PAINT RED PER NFPA REQUIREMENT.
$ - USE GFCI TYPE CIRCUIT BREAKER.

PANEL LC

120/208 VOLTS
3 PHASE
4 WIRE

LOCATION ELEC ROOM 17
FEEDER

MAIN BKR: MAIN LUGS ONLY
ENTER CAB'T. AT

125 A. BUSSING
SURFACE MTG.

LOCATION	WATTAGE PH - A	WATTAGE PH - B	WATTAGE PH - C	LTG	REC	MIS	CIR	BKR		BKR	CIR	MIS	REC	LTG	WATTAGE PH - A	WATTAGE PH - B	WATTAGE PH - C	LOCATION
RECEPTACLE RM 11	720				4		1	20-1		20-1	2		4		720			RECEPTACLE, TV DINING HALL
RECEPTACLE POS		360			2		3	20-1		20-1	4		4			720		RECEPTACLE, TV, PROJECTOR DINING HALL
RECEPTACLE TV, SERVING AREA			540		3		5	20-1		20-1	6		6				1080	RECEPTACLE, DINING HALL
RECEPTACLE TV, SERVING AREA	540				3		7	20-1		20-1	8		1		1920			PLUG, IDF
REMOTE FA AMPLIFIER		600				1	9	20-1	*	30-1	10		1			1920		PLUG, IDF
FCPS FA			600			1	11	20-1	*	20-1	12		1				1320	DISPLAY CABINET
THERMAL SERVER COFFEE BREWER	1800				1		13	20-1		20-1	14		1		900			FREEZER
SINGLE HOT FOOD DISPENSER		816			1		15	20-1		20-1	16		1			900		REFRIGERATOR
MICROWAVE, COMMERCIAL			1728		1		17	20-1		20-1	18	1					864	AIR CURTAIN
MICROWAVE, COMMERCIAL	1728				1		19	20-1		20-1	20	1			500			DRINKING FOUNTAIN
ROLLER GRILL		1152			1		21	20-1		20-1	22	1	1			500		CIRC. PUMP & WH IGNITER
ICE MACHINE			1920			1	23	20-2		20-1	24		4				720	RECEPTACLE OUTDOOR
-----	1920					-	25	-		20-1	26							SPARE
RECEPTACLE RM 17		180			1		27	20-1		20-1	28							SPARE
EXTERIOR RECEPTACLE			180		1		29	20-1		20-1	30							SPARE
SPARE							31	20-1		20-1	32							SPARE
SPARE							33	20-1		20-1	34							SPARE
SPARE							35	20-1		20-1	36							SPARE
SPACE							37	SPC		SPC	38							SPACE
SPACE							39	SPC		SPC	40							SPACE
SPACE							41	SPC		SPC	42							SPACE

PH - A= 10748 VA PH - B= 7148 VA PH - C= 8952 VA

TOTAL CONNECTED LOAD: 26848 VA OR 74.58 AMPS @ 120/208 VOLTS -- 3 Ø

LCL: 0 VA X 125% = 0 VA

FDL: 26848 VA + 0 VA (LCL) = 26848 VA OR 74.58

* - PROVIDE LOCK-ON DEVICE AND PAINT RED PER NFPA REQUIREMENT.

PANEL SCHEDULE KEY	
HC	LA
HA	LB
INV	LC

AGENCY

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DATE: 03/24/2023

FLEWELLING & MOODY
architects *for* education

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ARCHITECT

LICENSED ARCHITECT
C - 26053
Ren. Date 08/31/2023
STATE OF CALIFORNIA

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REGISTERED PROFESSIONAL ENGINEER
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Drawn by: HY
Check by: AF

Revisions

No.	Date	Description

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

2925 ROSAMOND BLVD.
ROSAMOND, CA 93560

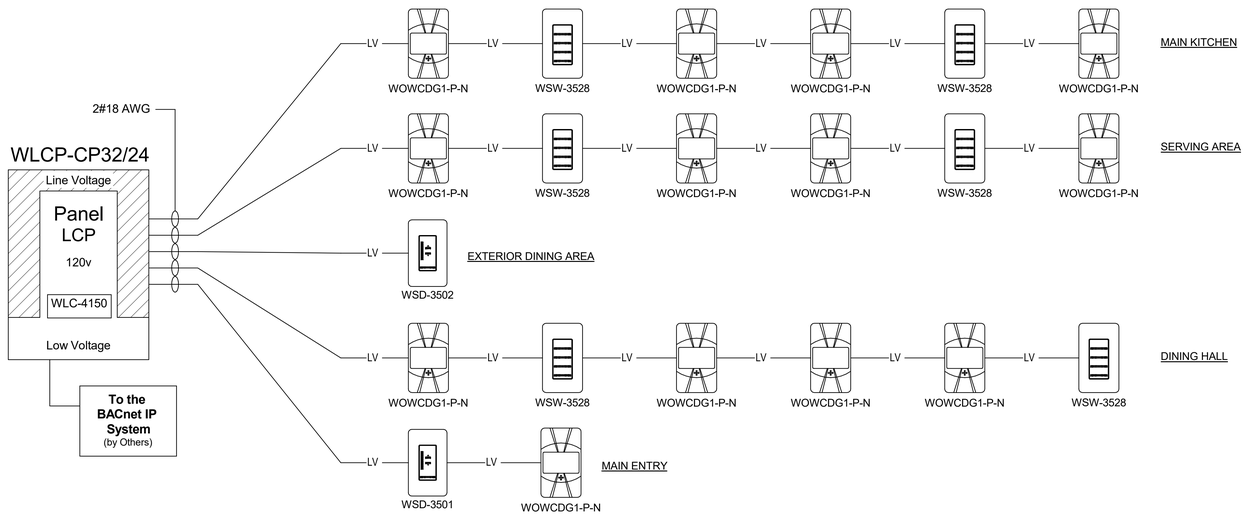
Drawing Title

PANEL SCHEDULES

Job No. 2990.000

Sheet No. **E103**

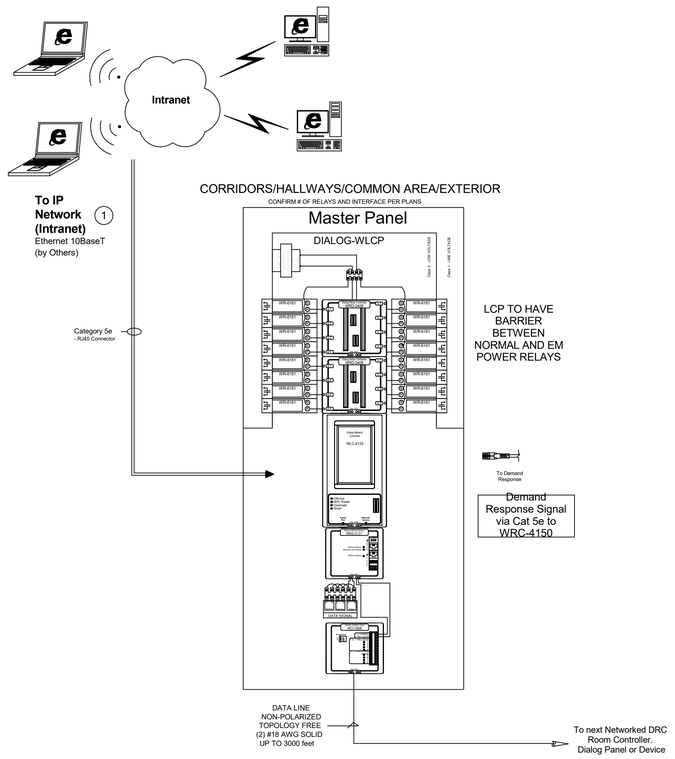
Date 01.30.2023



LIGHTING CONTROL PANEL (LCP) SCHEDULE

RELAY #	PANEL CKT #	LOCATION SERVICE	SWITCH
R1	HA-1	DINING HALL 02	DIMMER SW./OCCUPANCY SENSOR
R2	HA-3	DINING HALL 02	DIMMER SW./OCCUPANCY SENSOR
R3	HA-5	SERVING AREA 08	DIMMER SW./OCCUPANCY SENSOR
R4	HA-5	SERVING AREA 08	DIMMER SW./OCCUPANCY SENSOR
R5	HA-4	SERVING AREA 08	DIMMER SW./OCCUPANCY SENSOR
R6	HA-4	MAIN KITCHEN	KEY SW./DIMMER SW./OCCUPANCY SENSOR
R7	HA-7	EXT. DINING AREA	KEY SW./DIMMER SW./TIME CLOCK
R8	HA-9	EXT. LIGHTING	TIME CLOCK
R9	SPARE		
R10	SPARE		
R11	SPARE		
R12	SPARE		
R13	INV-1	DINING HALL 02	DIMMER SW/OCCUPANCY SENSOR
R14	INV-2	SERVING AREA 08	DIMMER SW./OCCUPANCY SENSOR
R15	INV-2	MAIN KITCHEN 10	DIMMER SW./OCCUPANCY SENSOR
R16	INV-1	MAIN ENTRY 01	DIMMER SW./OCCUPANCY SENSOR
R17	INV-3	EXT. DINING AREA	KEY SW/TIME CLOCK
R18	INV-4	EXT. LIGHTING	TIME CLOCK
R19	SPARE		
R20	SPARE		

BARRIER EMERGENCY AND NORMAL



1 E104 LIGHTING CONTROLLER WIRING DIAGRAM
N.T.S.

NOTES

1. THE DIALOG DATA SIGNAL IS SUPPLIED BY THE LIGHTING CONTROL UNIT (LCU). EACH LIGHTING CONTROLLER CAN HOST UP TO 252 OUTPUTS AND THE ASSOCIATED INPUT CONTROL DEVICES.
2. EACH INPUT DEVICE (SWITCH, OCCUPANCY SENSOR, PHOTO SENSOR, CONTACT INPUT) IS TARGETED TO EITHER A SINGLE OUTPUT ADDRESS OR A COLLECTION OF OUTPUTS. COLLECTIONS OF OUTPUTS CAN BE ADDRESSED AS A GROUP OR PRESET. MORE THAN ONE INPUT DEVICE CAN BE SET TO THE SAME TARGET.
3. THE DIALOG DATA SIGNAL IS 18/2 AWG, POLARITY INSENSITIVE TWISTED OR NON-TWISTED PAIR WITH A MAXIMUM SINGLE RUN LENGTH OF 1000ft (300m) AND A TOTAL AGGREGATED WIRE LENGTH OF 3000ft (900m). THE DATA SIGNAL TOPOLOGY CAN BE T-TAPPED, BUS OR STAR CONFIGURATION.
4. THE LIGHTING CONTROL UNIT SUPPLIES THE DATA LINE WITH 500mA OF POWER. 3 ADDITIONAL AMPLIFIERS MAY BE ADDED WHERE EACH AMPLIFIER ADDS AN ADDITIONAL 500mA TO THE DATA LINE.
5. AN INFRARED SETTING UNIT (WIR-3110) IS REQUIRED TO SET INPUT DEVICES TARGET AND ADDRESS. THIS DEVICE CAN ALSO BE USED TO SET THE PARAMETERS OF SENSORS AND FUNCTION OF KEYPADS.
6. CAT5E CABLE REQUIRED TO CONNECT ALL WLC-3150 LIGHTING CONTROL UNITS WITH THE GLOBAL WEB SERVER. ETHERNET CABLE RUN LENGTH NOT TO EXCEED 100m (300ft).
7. NO MORE THAN 25 x WLC-3150 LIGHTING CONTROL UNITS MAY BE CONNECTED TO A SINGLE GLOBAL WEB SERVER.
8. LIGHTING CONTROL PANELS MAY HAVE MULTIPLE VOLTAGES AND POWER FEEDS ENTERING THE ENCLOSURE. WHERE MULTIPLE VOLTAGES/FEEDS EXIST, ONE OR MORE VOLTAGE BARRIER(S) ARE REQUIRED.
9. DIALOG LIGHTING CONTROL PANELS MAY HAVE A MAXIMUM OF 72 RELAYS WITHIN THE SAME ENCLOSURE.
10. MULTIPLE RELAY PANELS MAY BE FED FROM A SINGLE WLC-3150. EACH ADDITIONAL RELAY PANEL MUST CONSIST OF APPROPRIATE NUMBER OF RELAY DRIVERS TO SUPPORT UP TO A TOTAL OF 252 RELAYS PER LCU.
11. THE DIALOG DATALINE MAY BE RUN FREE-AIR, OR IN CONDUIT. WHEN DATALINE IS RUN IN CONDUIT ADJACENT TO POWER LINES, DATALINE INSULATION MUST BE RATED FOR THE MAXIMUM VOLTAGE IN CONDUIT.

LEGEND

LV - Use 2#18 AWG Solid

LIGHTING CONTROL & DIALOG

"LCP" WLCP-CP32/24
DIALOG STANDARD LIGHTING CONTROL PANEL 32 SIZE CABINET WITH (24) 0-10 VOLT DIMMING RELAYS WITH WUL-3924 EMERGENCY RELAYS.

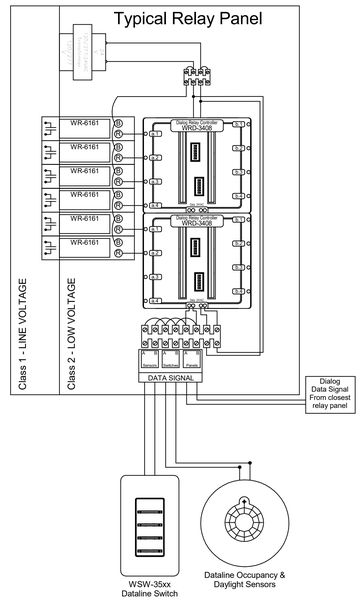
WSW-3528
DIALOG 8 BUTTON LOW VOLTAGE SWITCH STATION

WSD-3501
DIALOG LOW VOLTAGE DIMMER SWITCH STATION

WSK-3502
DIALOG LOW VOLTAGE KEY SWITCH STATION

WOWCDD2-DPR-N
LOW VOLTAGE WALL MOUNT OCCUPANCY SENSOR

WOWCDG1-P-N
DIALOG WALL MOUNT OCCUPANCY SENSOR



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APP: 03-122536 INC:
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SS ☑ FLS ☑ ACS ☑
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ANDREW FLEWELLING
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Ren. Date 08/31/2023
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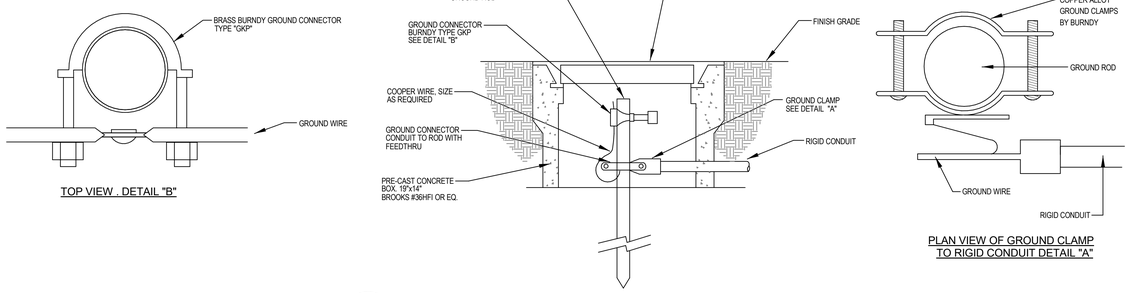
ROSAMOND, CA 93560

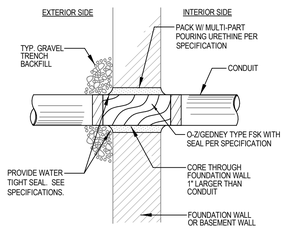
Drawing Title

LIGHTING CONTROL WIRING DIAGRAM

Job No. 2990.000
Date 01.30.2023
Sheet No. **E104**

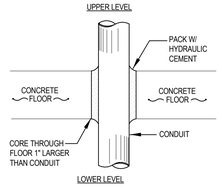


9 / E105 **GROUND ROD & PRECAST CONCRETE BOX DETAIL**
N.T.S.



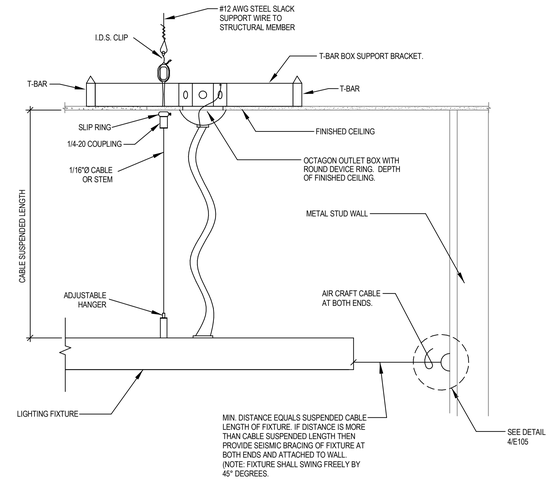
CONDUIT PENETRATION THROUGH BUILDING EXTERIOR WALL AT BELOW GRADE LEVEL

8 / E105 N.T.S.

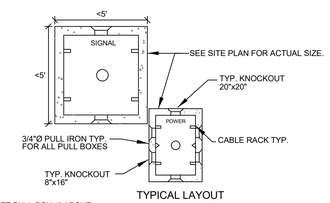


TYPICAL CONDUIT PENETRATION THROUGH FLOOR

6 / E105 N.T.S.



3 / E105 **SUSPENDED LIGHTING FIXTURE BRACING DETAIL**
N.T.S.

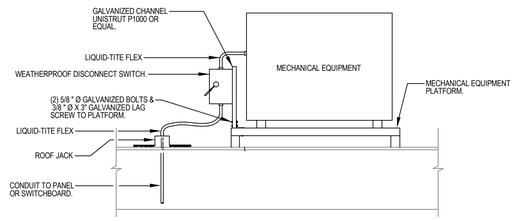


PRECAST CONRETE PULL BOXES DETAILS

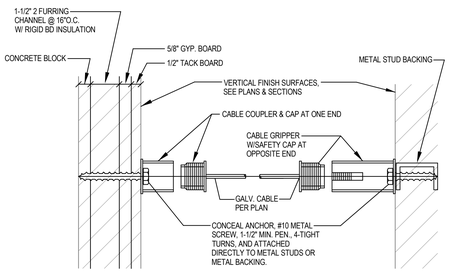
7 / E105 N.T.S.

NOTES:

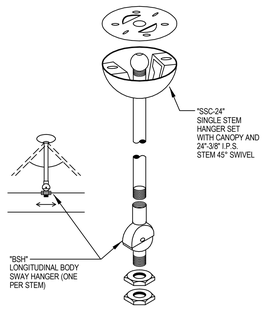
1. IN THE PRECAST CONCRETE PULL BOXES FURNISH AND INSTALL CABLE RACKS ON WALLS INDICATED. EACH RACK SHALL BE EQUIPPED WITH THREE PORCELAIN CABLE HOLDERS ON A VERTICAL STEEL MOUNTING BAR. BOLT HOLES SHALL BE PRE-CAST PULL BOXES QUICKSET UTILITY VAULT SERIES TPB-1001 OR EQUAL WITH STAINLESS STEEL FLAT HEAD SCREWS AND SELF CLEANING HOLES. LOOP ALL CABLES AROUND THE LONGEST LENGTH IN THE PULL BOX.
2. SET PULLBOX LEVEL AND PLUMB. SET AT A DEPTH WHICH ALLOWS CONDUITS TO ENTER OR EXIT WITHOUT BENDING UP OR DOWN. PROVIDE GRADE RINGS TO ALLOWS COVER TO SIT AT PROPER ELEVATION TO FINISHED GRADE.
3. MARK PULLBOX COVERS "POWER" OR "SIGNAL/F.A." OR "EMERG".
4. NOT PART OF DSA APPROVAL.



5 / E105 **DISCONNECT SWITCH MOUNTING DETAIL**
N.T.S.

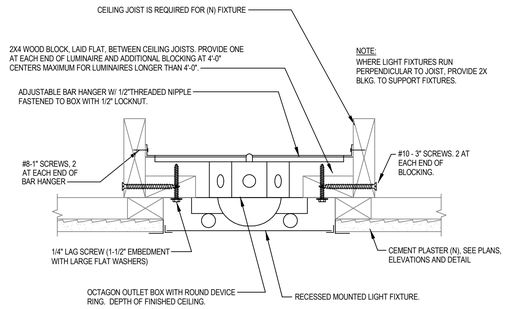


4 / E105 **BRACE CABLE AT VERTICAL SURFACES**
N.T.S.



LIGHTING FIXTURE STEM PENDANT SUSPENSION DETAIL AT GYPBOARD OR HARD CEILING

2 / E105 N.T.S.



1 / E105 **RECESSED CEILING LIGHTING FIXTURE**
N.T.S.

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DETAILS

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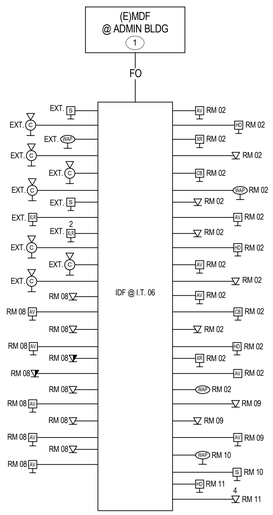
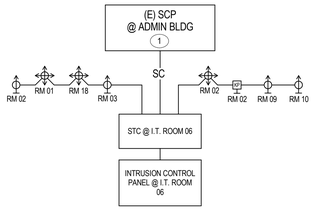


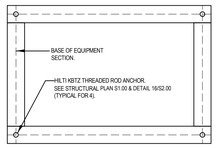
14 E106 **PA/TEL/CLOCK/CCTV/DATA SYSTEM RISER DIAGRAM**
N.T.S.

NOTE: (1) PROVIDE ELECTRONIC EQUIPMENT OR MODULE TO INCLUDE NEW DEVICES AS INDICATED.

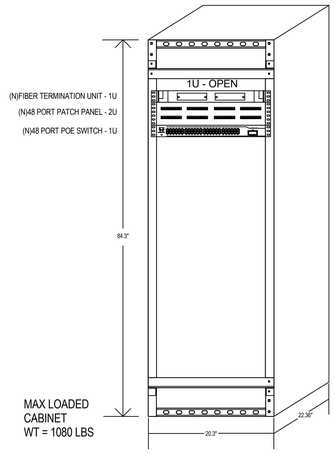


13 E106 **SECURITY SYSTEM RISER DIAGRAM**
N.T.S.

NOTE: (1) PROVIDE ELECTRONIC EQUIPMENT OR MODULE TO INCLUDE NEW DEVICES AS INDICATED.

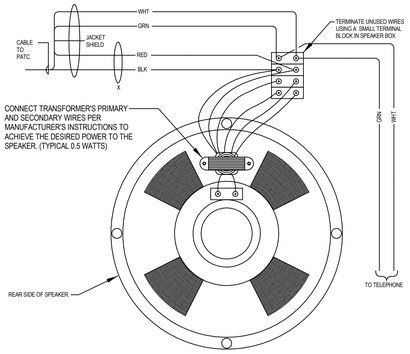


12 E106 **ANCHORAGE DETAIL FOR IDF RACK TO CONCRETE PAD**
N.T.S.

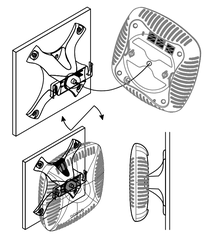


11 E106 **IDF RACK ELEVATION**
N.T.S.

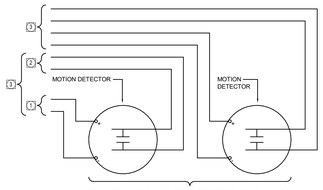
NOTE: SUPPLY VERTICAL WIRE MANAGEMENT AS REQUIRED FOR DATA CABLING.



10 E106 **SPEAKER WIRING DETAIL**
N.T.S.



9 E106 **WALL MOUNT WAP MOUNTING DETAIL TYP FOR VERTICAL MOUNTING**
N.T.S.

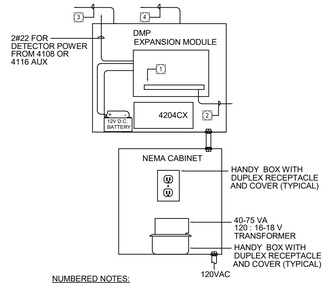


DEDICATE ONE CABLE PER DETECTOR. WHEN MORE THAN ONE DETECTOR PER ZONE, THE PARALLEL CONNECTIONS WILL BE DONE AT THE TERMINAL CABINET OR CONTROL PANEL.

NUMBERED NOTES:

1. 12V D.C. DETECTOR POWER CONTACTS. FROM CONTROLER OR EXPANSION MODULE POWER SUPPLY.
2. DETECTOR ALARM CONTACT.
3. ZONE WIRING. (1) #22 WEST PENN 240 (FOR INTERIOR USE) OR (1) #22 WEST PENN AQC240 (FOR OUTDOOR OR UNDERGROUND USE).

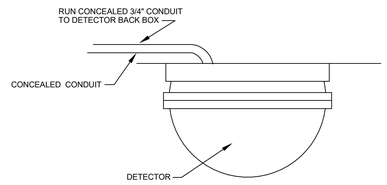
8 E106 **TYPICAL DETECTOR WIRING**
N.T.S.



NUMBERED NOTES:

1. TERMINAL STRIP FOR COM BUS AND 8 OR 16 ZONES.
2. #22 WEST PENN 240 FROM COM BUS TERMINALS IN PC4020 CONTROLLER.
3. TO OTHER 8 OR 16 ZONE EXPANSION MODULE (IF NECESSARY) #22 WEST PENN 240 CONNECTING COM BUSSES.
4. DETECTOR ZONE WIRING. TYPICALLY ONE DETECTOR PER ZONE. SEE DETAIL 7/E104.

7 E106 **SECURITY INTRUSION ALARM- ZONE EXPANSION BLOCK DIAGRAM**
N.T.S.



6 E106 **SECURITY MOTION DETECTOR MOUNTING DETAIL**
N.T.S.

PLAN NOTES:

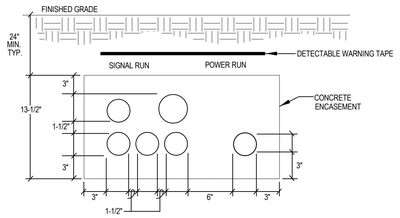
1.- ALL SCREWS AND FASTENERS USED IN SECURITY SYSTEM DEVICES SHALL BE TAMPER PROOF TYPE.

2.- ALL DETECTORS SHALL BE INTERNALLY ADJUSTED FOR OPTIMUM VERTICAL AND HORIZONTAL SECURITY COVERAGE, TAKING CARE TO AVOID WATER OR VAPORS, SUNLIGHT AND WARM AIR TURBULENCE ETC., AND TO THE SATISFACTION OF THE DISTRICT INSPECTOR.

3.- ALL DETECTORS SYSTEM CABLES SHALL RUN IN CONCEALED CONDUIT AS SHOWN ON THE PLANS.

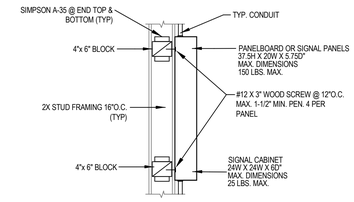
4.- LOCATE AND ADJUST THE DETECTOR ACCORDING TO THE FURNITURE LAYOUT. VERIFY FINAL LAYOUT PRIOR TO INSTALLATION.

5.- PROVIDE ALL SHELVES, INSERTS, CORE DRILLINGS AND OPENINGS NECESSARY FOR THE INSTALLATION OF SECURITY SYSTEM.

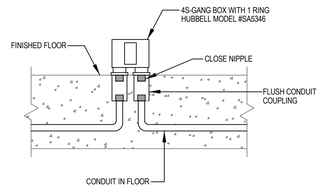


5 E106 **CONDUIT DUCT BANK SECTION**
N.T.S.

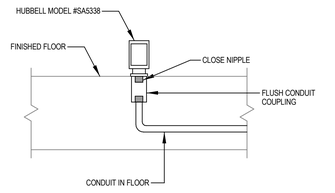
NOTE: DETAILS SHOWS TYPICAL CONDUIT SPACING AND DEPTH ONLY. REFER TO DRAWINGS FOR EXACT QUANTITY AND SIZES OF CONDUITS. IN PAVED AREAS, BACKFILL WITH SLURRY.



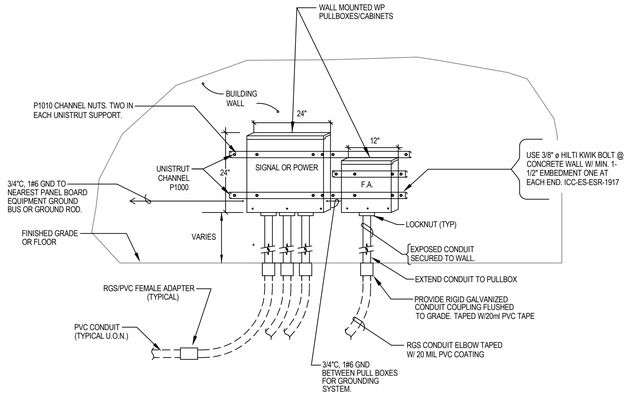
4 E106 **TYP. ELECTRICAL PANELBOARDS/ SIGNAL PANEL OR CABINETS DETAILS**
N.T.S.



3 E106 **MOUNTING DETAIL FOR FLOOR (IN-OUT) PEDESTAL - KITCHEN AREA**
N.T.S.



2 E106 **MOUNTING DETAIL FOR FLOOR PEDESTAL - KITCHEN AREA**
N.T.S.



* QUANTITY OF CONDUIT PER SITE PLAN DRAWING.

1 E106 **POWER/COMMUNICATION JUNCTION BOXES/CABINETS DETAIL**
N.T.S.

AGENCY

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122536 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/24/2023

FLEWELLING & MOODY
architects *for* education

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An Employee Owned Corporation

ARCHITECT

LICENSED ARCHITECT ANDREW FLEWELLING C – 26053 Ren. Date 08/31/2023 STATE OF CALIFORNIA

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER MECHANICAL ENGINEER ELECTRICAL ENGINEER E21979 Exp. 09/30/23 STATE OF CALIFORNIA

PACIFIC ENGINEERS GROUP
Consulting Electrical Engineers
1106 W. Magnolia Blvd., Suite A
Burbank, CA 91506
(818) 859-7081 Y22-141

Drawn by: HY
Check by: AF
Revisions

No.	Date	Description

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared for a specific site. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Flewelling & Moody.

SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

2925 ROSAMOND BLVD.
ROSAMOND, CA 93560

Drawing Title

DETAILS & RISER DIAGRAMS

Job No. 2990.000
Date 01.30.2023
Sheet No. **E106**

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E (Created 11/19) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6, and §141.0(b)2 for indoor lighting scopes using the prescriptive path.		
Project Name: ROSAMOND HIGH SCHOOL CAFETERIA	Report Page:	Page 1 of 7
Project Address: 2925 WEST ROSAMOND BLVD. ROSAMOND, CA 93560	Date Prepared:	AUGUST 17, 2022

A. GENERAL INFORMATION

01	Project Location (city)	ROSAMOND	04	Total Conditioned Floor Area (ft²)	7,322
02	Climate Zone	10	05	Total Unconditioned Floor Area (ft²)	2,317
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	

☐ Office ☐ Retail ☐ Warehouse ☐ Hotel/Motel ☑ School ☐ Support Areas
☐ Parking Garage ☐ High-Rise Residential ☐ Relocatable ☐ Healthcare ☐ Other (write in):

B. PROJECT SCOPE

Table Instructions: Include any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)2 for alterations. WARNING: Changing the Calculation Method in this table will result in the deletion of data previously input. If you need to change the calculation method, please open a new form or use "Save As".

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☑ New Lighting System	Complete Building	7,322	Complete Building	2,317
☐ Altered Lighting System				
Total Area of Work (ft²)	**7,322**		**2,317**	

C. COMPLIANCE RESULTS

Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)1.	Allowed Lighting Power per §140.6(b) (Watts)						Adjusted Lighting Power per §140.6(a) (Watts)					Compliance Results
	01	02	03	04	05		06	07		08		09
	Complete Building §140.6(c)1 (See Table I)	Area Category §140.6(c)2 (See Table I)	Area Category Additional §140.6(c)2XG (+) (See Table J)	Tailored §140.6(c)3 (+) (See Table K)	Total Allowed (Watts)	≥	Total Designed (Watts) (See Table F)	Adjustments PAF Control Credits §140.6(a)2 (-) (See Table P)	=	Total Adjusted (Watts) *Includes Adjustments		05 Must be ≥ 08 §140.6
Conditioned:	4,759.3				= **4,759.3**	≥	3,919.6		=	**3,919.6**		**COMPLIES**
Unconditioned:	1,506.05				= **1,506.05**	≥	796.6		=	**796.6**		**COMPLIES**

Table Continued

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E (Created 11/19) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: ROSAMOND HIGH SCHOOL CAFETERIA	Report Page:	Page 2 of 7
Project Address: 2925 WEST ROSAMOND BLVD. ROSAMOND, CA 93560	Date Prepared:	AUGUST 17, 2022

Controls Compliance (See Table H for Details)	**COMPLIES**
Rated Power Reduction Compliance (See Table Q for Details)	**Not Applicable**

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

No exceptional conditions apply to this project.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. INDOOR LIGHTING FIXTURE SCHEDULE

Table Instructions: Include all permanent designed lighting and all portable lighting in offices.

Designed Wattage: Conditioned Spaces

01 Name or Item Tag	02 Complete Luminaire Description	03 Modular (Track) Fixture	04 Small Aperture & Color Change[1]	05 Watts per luminaire[2]	06 How Wattage is determined	07 Total number luminaires	08 Exempt per §140.6(a)3	09 Design Watts	10 Field Inspector Pass	10 Field Inspector Fail
A1	8FT INDIRECT DIRECT LED LINEAR	☐	☐	82.4	Mfr. Spec[2]	16	☐	1,318.4	☐	☐
A2	8FT INDIRECT DIRECT LED LINEAR	☐	☐	106.4	Mfr. Spec[2]	4	☐	425.6	☐	☐
B	2X4 NSF LISTED TROFFER	☐	☐	55	Mfr. Spec[2]	10	☐	550	☐	☐
B1	2X4 NSF LISTED TROFFER	☐	☐	35	Mfr. Spec[2]	3	☐	105	☐	☐
C	1X4 RECESSED FLAT PANEL LIGHTING	☐	☐	59	Mfr. Spec[2]	5	☐	295	☐	☐
C1	1X4 RECESSED FLAT PANEL LIGHTING	☐	☐	43	Mfr. Spec[2]	1	☐	43	☐	☐
C2	1X4 RECESSED FLAT PANEL LIGHTING	☐	☐	39	Mfr. Spec[2]	6	☐	234	☐	☐
C3	1X4 RECESSED FLAT PANEL LIGHTING	☐	☐	32	Mfr. Spec[2]	3	☐	96	☐	☐
D1	4 FT LED LINEAR	☐	☐	22.4	Mfr. Spec[2]	2	☐	44.8	☐	☐
D2	8FT LED LINEAR	☐	☐	30.4	Mfr. Spec[2]	6	☐	182.4	☐	☐
D3	12FT LED LINEAR	☐	☐	45.6	Mfr. Spec[2]	2	☐	91.2	☐	☐
F	10"x13.5" TALL PENDANT	☐	☐	25	Mfr. Spec[2]	11	☐	275	☐	☐
G	6IN LED DOWNLIGHT	☐	☐	21.6	Mfr. Spec[2]	12	☐	259.2	☐	☐

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E (Created 11/19) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: ROSAMOND HIGH SCHOOL CAFETERIA	Report Page:	Page 3 of 7
Project Address: 2925 WEST ROSAMOND BLVD. ROSAMOND, CA 93560	Date Prepared:	AUGUST 17, 2022

Designed Wattage: Conditioned Spaces

01 Name or Item Tag	02 Complete Luminaire Description	03 Modular (Track) Fixture	04 Small Aperture & Color Change[1]	05 Watts per luminaire[2]	06 How Wattage is determined	07 Total number luminaires	08 Exempt per §140.6(a)3	09 Design Watts	10 Field Inspector Pass	10 Field Inspector Fail
					Total Designed Watts CONDITIONED SPACES:			**3,919.6**		

Designed Wattage: Unconditioned Spaces

01 Name or Item Tag	02 Complete Luminaire Description	03 Modular (Track) Fixture	04 Small Aperture & Color Change[1]	05 Watts per luminaire[2]	06 How Wattage is determined	07 Total number luminaires	08 Exempt per §140.6(a)3	09 Design Watts	10 Field Inspector Pass	10 Field Inspector Fail
C4	1X4 RECESSED FLAT PANEL LIGHTING	☐	☐	27	Mfr. Spec[2]	18	☐	486	☐	☐
G	6IN LED DOWNLIGHT	☐	☐	21.6	Mfr. Spec[2]	1	☐	21.6	☐	☐
H	12.5" ROUND EXTERIOR	☐	☐	17	Mfr. Spec[2]	17	☐	289	☐	☐
					Total Designed Watts UNCONDITIONED SPACES:			**796.6**		

[1] *FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)4B is adjusted to be 75% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.*
[2] *Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c) Wattage used must be the maximum rated for the luminaire, not the lamp.*

G. MODULAR LIGHTING SYSTEMS

This Section Does Not Apply

H. INDOOR LIGHTING CONTROLS (Not Including PAFs)

*Table Instructions: Please include lighting controls for conditioned and unconditioned spaces in this table. When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.*

Building Level Controls

01 Mandatory Demand Response §110.12(c)	02 Shut-Off Controls §130.1(c)	03 Field Inspector Pass	03 Field Inspector Fail
Not Required ≤ 10,000 SF	Whole Building Timeswitch	☐	☐

Area Level Controls

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E (Created 11/19) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: ROSAMOND HIGH SCHOOL CAFETERIA	Report Page:	Page 4 of 7
Project Address: 2925 WEST ROSAMOND BLVD. ROSAMOND, CA 93560	Date Prepared:	AUGUST 17, 2022

04 Area Description	05 Complete Building or Area Category Primary Function Area	06 Area Controls §130.1(a)	07 Multi-Level Controls §130.1(b)	08 Shut-Off Controls §130.1(c)	09 Primary/Skylit Daylighting §130.1(d)	10 Secondary Daylighting §140.6(d)	11 Interlocked Systems §140.6(a)1	12 Field Inspector Pass	12 Field Inspector Fail
CAFETERIA	School Building	Manual ON/ OFF	Dimmer	Auto Timeswitch	NA	NA	☐	☐	☐

*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)2

Plan Sheet Showing Daylit Zones: 13

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Table Instructions: Complete the table for each area complying using the Complete Building or Area Category Methods per §140.6(b). Indicate if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used.

Conditioned Spaces

01 Area Description	02 Complete Building or Area Category Primary Function Area	03 Allowed Density (W/ft²)	04 Area (ft²)	05 Allowed Wattage (Watts)	06 Additional Allowances / Adjustment: Area Category	06 Additional Allowances / Adjustment: PAF
CAFETERIA	School Building	0.65	7,322	4,759.3	☐	☐
		TOTAL:	**7,322**	**4,759.3**	See Tables J or P for detail	

Unconditioned Spaces

01 Area Description	02 Complete Building or Area Category Primary Function Area	03 Allowed Density (W/ft²)	04 Area (ft²)	05 Allowed Wattage (Watts)	06 Additional Allowances / Adjustment: Area Category	06 Additional Allowances / Adjustment: PAF
CAFETERIA	School Building	0.65	2,317	1,506.05	☐	☐
		TOTAL:	**2,317**	**1,506.05**	See Tables J or P for detail	

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E (Created 11/19) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: ROSAMOND HIGH SCHOOL CAFETERIA	Report Page:	Page 5 of 7
Project Address: 2925 WEST ROSAMOND BLVD. ROSAMOND, CA 93560	Date Prepared:	AUGUST 17, 2022

J. ADDITIONAL LIGHTING ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This Section Does Not Apply

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This Section Does Not Apply

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This Section Does Not Apply

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This Section Does Not Apply

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS

This Section Does Not Apply

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This Section Does Not Apply

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This Section Does Not Apply

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS

This Section Does Not Apply

R. 80% LIGHTING POWER FOR ALTERATIONS - CONTROLS EXCEPTIONS

This Section Does Not Apply

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This Section Does Not Apply

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E (Created 11/19) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: ROSAMOND HIGH SCHOOL CAFETERIA	Report Page:	Page 6 of 7
Project Address: 2925 WEST ROSAMOND BLVD. ROSAMOND, CA 93560	Date Prepared:	AUGUST 17, 2022

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://ww2.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

YES	NO	Form/Title	Field Inspector Pass	Field Inspector Fail
◉	○	NRCI-LTI-01-E - Must be submitted for all buildings	☐	☐
○	◉	NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐	☐
○	◉	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance.	☐	☐
○	◉	NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	☐	☐
○	◉	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	☐	☐

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

YES	NO	Form/Title	Field Inspector Pass	Field Inspector Fail
◉	○	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐	☐
○	◉	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	☐	☐
○	◉	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	☐	☐
○	◉	NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF).	☐	☐
○	◉	NRCA-ENV-03-F - Must be submitted for daylighting design power adjustment factors (PAF).	☐	☐

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E (Created 11/19) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: ROSAMOND HIGH SCHOOL CAFETERIA	Report Page:	Page 7 of 7
Project Address: 2925 WEST ROSAMOND BLVD. ROSAMOND, CA 93560	Date Prepared:	AUGUST 17, 2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete

Documentation Author Name:	ANTHONY FAJARDO	Documentation Author Signature:	
Company:	PACIFIC ENGINEERS GROUP	Signature Date:	8/17/2022
Address:	1106 W. MAGNOLIA BLVD., SUITE A	CEA/ HERS Certification Identification (if applicable):	
City/State/Zip:	BURBANK, CA 91506	Phone:	818-859-7081

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. **The information provided on this Certificate of Compliance is true and correct.**
2. **I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)**
3. **The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.**
4. **The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.**
5. **I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.**

Responsible Designer Name:	ANTHONY FAJARDO	Responsible Designer Signature:	
Company :	PACIFIC ENGINEERS GROUP	Date Signed:	8/17/2022
Address:	1106 W. MAGNOLIA BLVD., SUITE A	License:	E21979
City/State/Zip:	BURBANK, CA 91506	Phone:	818-859-7081

AGENCY

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122536 INC:
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E-Mail: fm-lancaster@flewelling-moody.com

An Employee Owned Corporation

ARCHITECT

LICENSED ARCHITECT — C-26053 — Ren. Date 08/31/2023 — STATE OF CALIFORNIA

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER — ELECTRICAL — E21979 — Exp. 09/30/23 — STATE OF CALIFORNIA

PACIFIC ENGINEERS GROUP
Consulting Electrical Engineers
1106 W. Magnolia Blvd., Suite A
Burbank, CA 91506
(818) 859-7081 Y22-141

Drawn by: HY
Check by: AF

Revisions

No.	Date	Description

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared for a specific site. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Flewelling & Moody.

SOUTHERN KERN UNIFIED SCHOOL DISTRICT

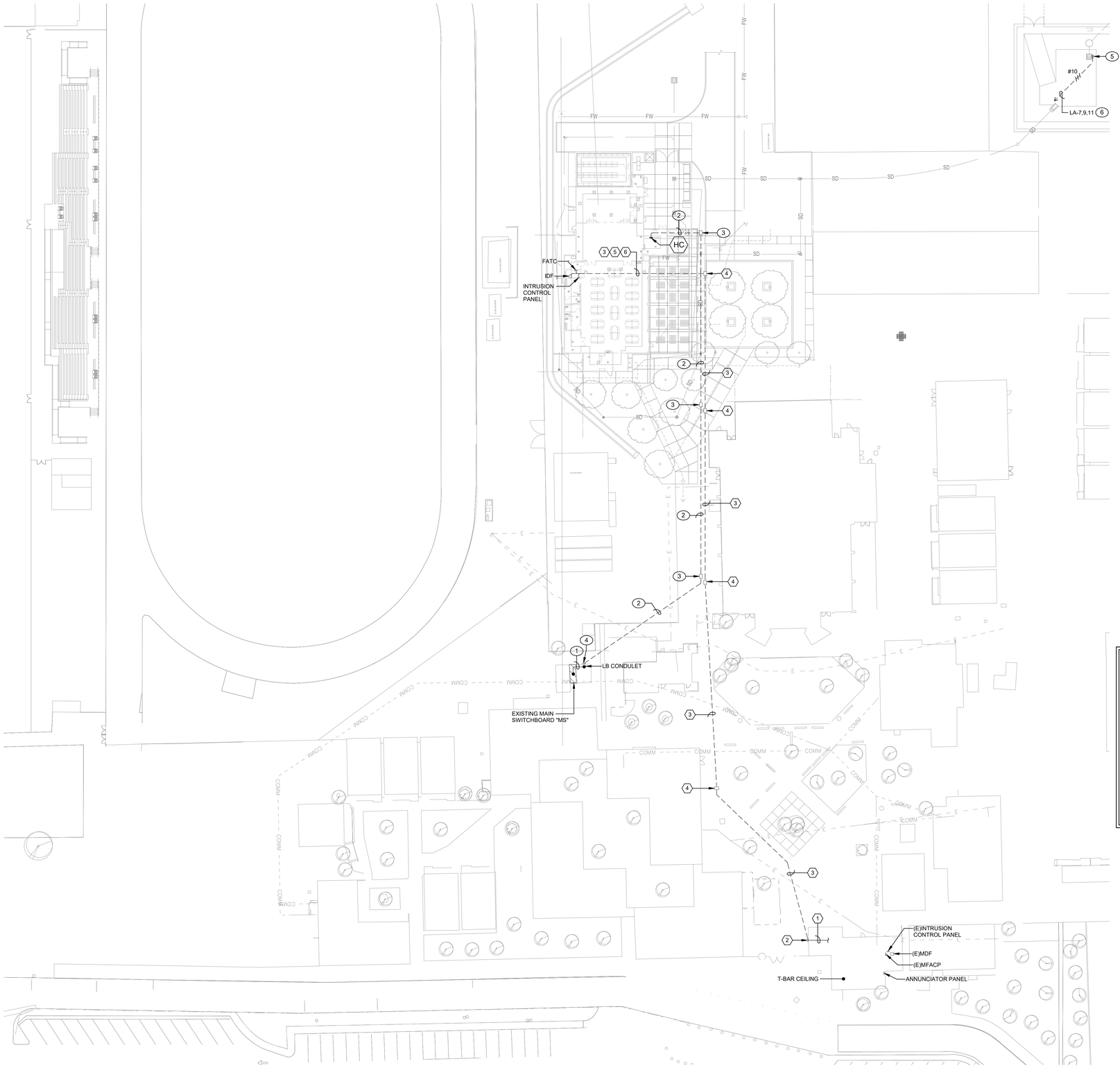
ROSAMOND HIGH EARLY COLLEGE CAMPUS

2925 ROSAMOND BLVD.
ROSAMOND, CA 93560

Drawing Title

TITLE 24 FORMS

Job No. 2990.000
Sheet No. **E107**
Date 01.30.2023



1 ELECTRICAL SITE PLAN
1" = 30'-0"

POWER KEYED NOTES

1. 4"C, 4#500MCM & 1#1/0 GND. RUN CONDUIT HIGH ON WALL.
2. 4"C, 4#500MCM & 1#1/0 GND.
3. 2'x3'x3' DEEP CONCRETE PULLBOX, TRAFFIC TYPE COVER MARK "ELECTRIC". SIMILAR OR EQUAL TO "JENSEN #PB2436".
4. WEATHERPROOF PULLBOX 24"x24"x8" DEEP, MOUNT HIGH ON WALL.
5. SUMP PUMP MOTOR CONTROLLER SUITABLE FOR 208 VOLTS, 3 PHASE, 3 WIRES POWER SUPPLY.
6. RUN CONDUIT ALONG STORM DRAIN LINE, BURY 24" BELOW FINISH GRADE WITH CONCRETE ENCASEMENT AND DETECTABLE WARNING TAPE.

SIGNAL KEYED NOTES

1. 2"C, (1)FO (DATA/TEL/PA);
   2"C, (1)FW, (1)AW, (1)VW (FA);
   2"C, (1)SC (INTRUSION);
   RUN CONDUIT IN CEILING SPACE. TERMINATE TO RESPECTIVE SIGNAL HEADEND.
2. WEATHERPROOF PULLBOX, MOUNT HIGH ON WALL
   (a)24"x24"x6"DEEP (DATA, TEL, PA, INTRUSION);
   (b)12"x12"x6"DEEP (FIRE ALARM).
3. 2"C, (1)FO (DATA/TEL/PA);
   2"C, (1)FW, (1)AW, (1)VW (FA);
   2"C, (1)SC (INTRUSION);
   2"C.O. (SPARE).
4. 2'x3'x3' DEEP CONCRETE PULLBOX, TRAFFIC TYPE COVER MARK "SIGNAL". SIMILAR OR EQUAL TO "JENSEN #PB2436".
5. TERMINATE TO RESPECTIVE SIGNAL CABINET AND IDF.
6. STUB-UP SPARE CONDUIT 12" ABOVE GROUND ALONG FATC WALL. CAP AND TAG CONDUIT.

NOTE:

SAW CUT EXISTING CONCRETE PAVEMENT AND RESTORE TO ORIGINAL CONDITION AFTER NEW CONDUIT PATHWAYS ARE INSTALLED.

EXCAVATION NOTES

CONTRACTOR SHALL FIELD VERIFY UNDERGROUND UTILITIES PRIOR TO WORK (ELECTRICAL CONDUITS, SEWER LINES, WATER LINES, PLUMBING, ETC.). CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND ROUTING OF NEW TRENCHING IN AREAS OF EXISTING UNDERGROUND LINES. CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL EXISTING LINES WHERE NEW TRENCHING OCCURS BY USING ELECTRONIC LOCATING DEVICES, DIG ALERT SERVICES, ETC. CONTRACTOR SHALL INCLUDE THE COST OF LOCATING THE EXISTING UNDERGROUND LINES IN THE BID. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY AND ALL DAMAGE TO EXISTING LINES.

TRENCHING FOR NEW UNDERGROUND CONDUITS IN AREAS WHERE EXISTING UNDERGROUND LINES ARE PRESENT SHALL BE EXCAVATED BY HAND AND WITH EXTREME CAUTION. UNDERGROUND POWER AND SIGNAL PULLBOXES WHERE SHOWN ON THE SITE PLAN DETERMINED TO BE IN CONFLICT WITH EXISTING UNDERGROUND LINES AFTER EXCAVATION BY HAND SHALL BE RELOCATED TO A POSITION AS CLOSE AS POSSIBLE TO THE LOCATION SHOWN ON THE DRAWINGS.

AGENCY

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DATE: 03/24/2023

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architects *for* education

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Drawn by: HY
Check by: AF

Revisions

No.	Date	Description

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

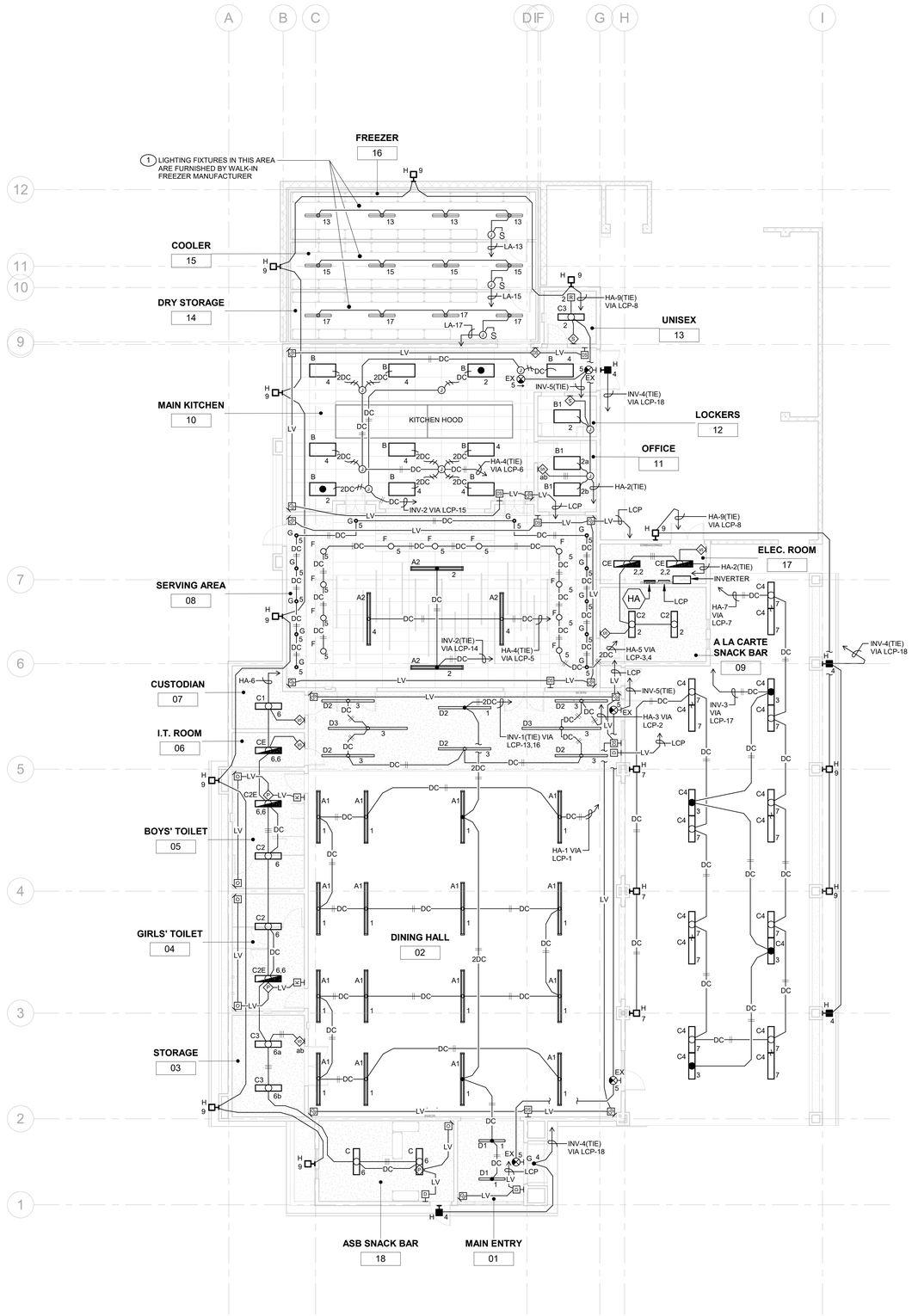
ROSAMOND HIGH EARLY COLLEGE CAMPUS

2925 ROSAMOND BLVD.
ROSAMOND, CA 93560

Drawing Title

ELECTRICAL SITE PLAN

Job No. 2990.000
Date 01.30.2023
Sheet No. **E201**



1 LIGHTING PLAN
1/8" = 1'-0"

KEYED NOTES

1 USE APPROVE TYPE CONDUIT FITTINGS ENTERING AND LEAVING COLD AREAS.

AGENCY

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DATE: 03/24/2023

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Ren. Date 08/31/2023
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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

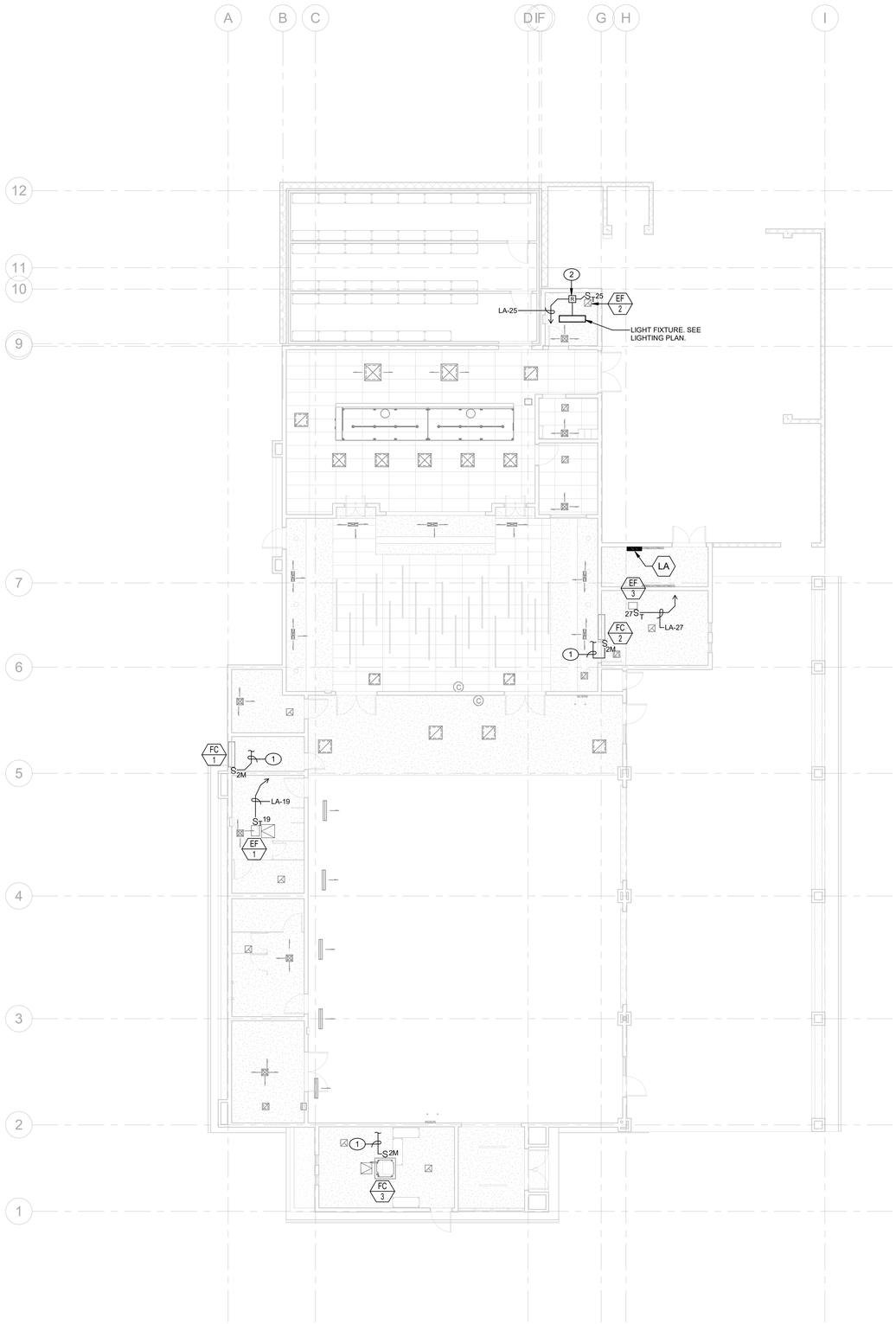
ROSAMOND HIGH EARLY COLLEGE CAMPUS

2925 ROSAMOND BLVD.
ROSAMOND, CA 93560

Drawing Title

LIGHTING PLAN

Job No. 2990.000
Date 01.30.2023
Sheet No. **E401**



1 EXHAUST FAN POWER PLAN
1/8" = 1'-0"

KEYED NOTES

1. 3/4"C, 2#12 & 1#12GND, INTERLOCK TO RESPECTIVE HEAT PUMP ON ROOF.
2. CONTROL RELAY 277 VOLT COIL WITH 120V, 20 AMPS, SPST CONTACT IN NEMA-1 ENCLOSURE, MOUNT IN CEILING SPACE.

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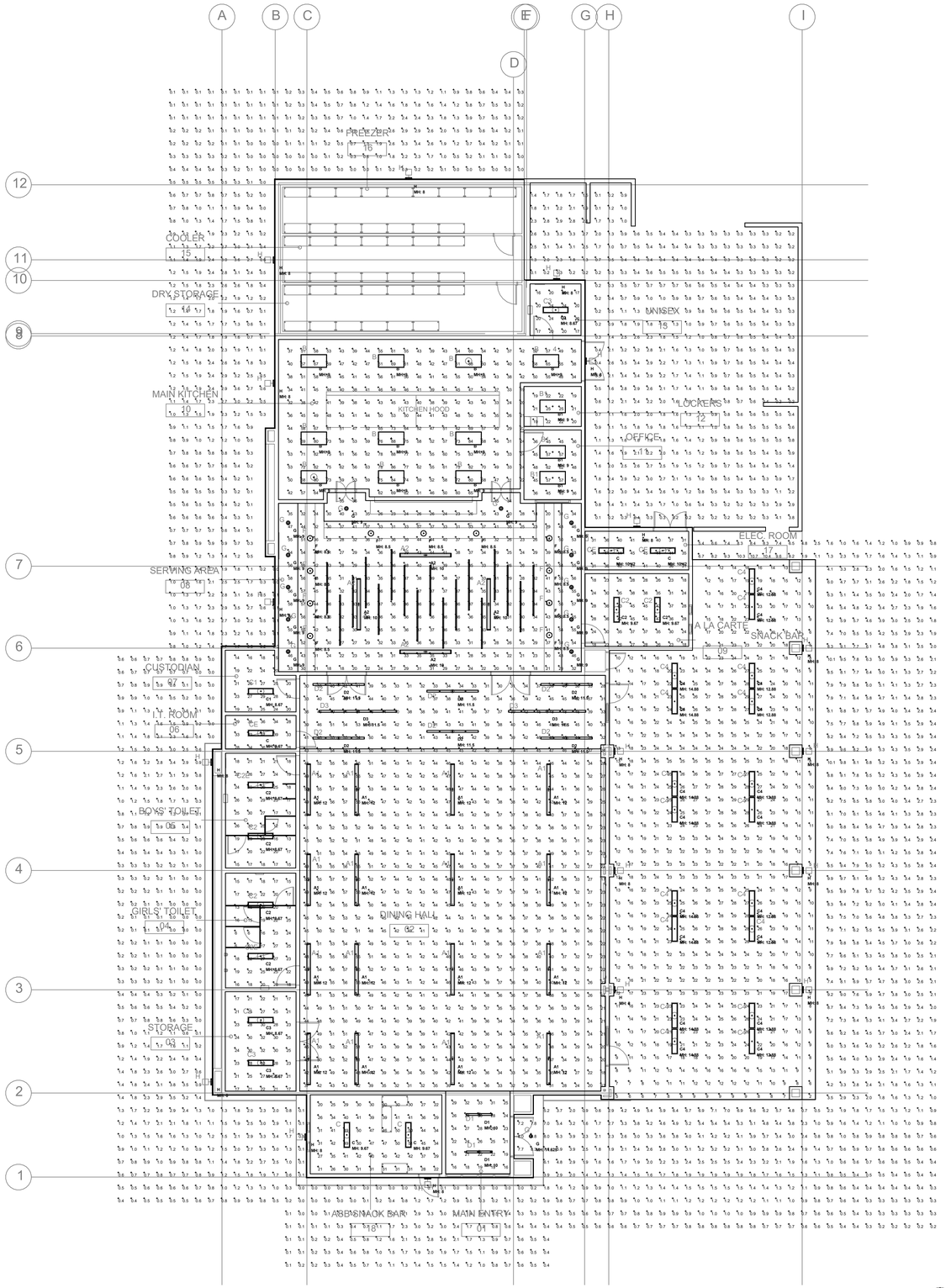
Drawing Title

EXHAUST FAN POWER PLAN

Job No. 2990.000

Date 01.30.2023

Sheet No. **E402**



1 PHOTOMETRIC PLAN - NORMAL
1/8" = 1'-0"

Jobname: ROSAMOND HIGH SCHOOL - CAFETERIA
Report for: Pacific Engineers Group
c/o: Crikey Coko!
Report by: Christian Almonte / Applications Engineer
Mounting Ht.: See Drawing [PLEASE VERIFY CORRECT HEIGHTS]
Reflectance: 80/50/20 [UNLESS OTHERWISE SPECIFIED]
See Luminaire Schedule for Light Loss Factor [UNLESS OTHERWISE SPECIFIED]
Filename: Rosamond HS_Cafe LTG_2022-11.AGI
Date:11/28/2022

-----Disclaimer-----
Luminaire performance data is provided by manufacturer(s) and is based on IESNA testing procedures done in controlled laboratory conditions. Field results may vary from computer modeling due to numerous factors. This photometric modeling is provided solely for design assistance; final lighting design, application, fixture selection and layout is the responsibility of the specifier of record.

Luminaire Schedule

Symbol	Qty	Label	Arrangement	Arr. Lum. Lumens	LLF	Description
	16	A1	SINGLE	5388	1.700	LITECONTROL: SAE104-P-LPA-F-SOF-35K-130-4D (LLF prorated from 4')
	4	A2	SINGLE	8162	1.700	LITECONTROL: SAE104-P-LPA-F-SOF-35K-155-2D (LLF prorated from 4')
	10	B	SINGLE	6859	0.850	KURTZON: FP-2X4-2-LEDR-840-UNV
	3	B1	SINGLE	6859	0.541	KURTZON: FP-2X4-2-LEDR-840-UNV-PSW (LLF derated from 55W)
	5	C	SINGLE	7142	0.850	COLUMBIA: SRP14-4DVL
	1	C1	SINGLE	5581	0.850	COLUMBIA: SRP14-4DHL
	6	C2	SINGLE	4953	0.850	COLUMBIA: SRP14-4DML
	3	C3	SINGLE	4240	0.850	COLUMBIA: SRP14-4DLW
	18	C4	SINGLE	3537	0.850	COLUMBIA: SRP14-4DMW
	2	D1	SINGLE	2741	0.850	PRUDENTIAL: BPRO4-REC-FLSH-LED-MO-F-SAL
	6	D2	GROUP	3700	0.850	PRUDENTIAL: BPRO4-REC-FLSH-LED-LO-F-SAL
	2	D3	GROUP	1600	0.850	PRUDENTIAL: BPRO4-REC-FLSH-LED-LO-T2-SAL
	11	F	SINGLE	1056	0.850	DCL: LE1-P1xx-10 LED2
	13	G	SINGLE	1228	0.850	VANTAGE: AIWEFLED-U-1535
	18	H	SINGLE	2408	0.850	NEWSTAR: GWRO-MD-40-UN

Calculation Summary

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
01_Floor	Illuminance	Fc	24.10	33	16	1.51	2.06
02_Workplane	Illuminance	Fc	41.17	58	16	2.57	3.63
03_Floor	Illuminance	Fc	24.50	32	17	1.44	1.88
04_Floor	Illuminance	Fc	18.59	27	6	3.12	4.50
05_Floor	Illuminance	Fc	21.31	30	12	1.78	2.50
06_Floor	Illuminance	Fc	33.93	42	28	1.21	1.50
07_Floor	Illuminance	Fc	32.09	29	14	1.58	2.07
08_Workplane	Illuminance	Fc	35.55	58	18	1.98	3.22
09_Workplane	Illuminance	Fc	31.13	45	18	1.73	2.50
10_Workplane	Illuminance	Fc	52.37	88	19	2.76	4.63
11_Workplane	Illuminance	Fc	47.60	82	36	1.32	1.72
12_Floor	Illuminance	Fc	21.42	29	19	1.13	1.32
13_Floor	Illuminance	Fc	20.19	24	16	1.26	1.50
17_Floor	Illuminance	Fc	38.42	45	31	1.24	1.45
18_Workplane	Illuminance	Fc	36.40	51	20	1.82	2.55
EXTERIOR	Illuminance	Fc	1.84	10.7	0.0	N.A.	N.A.
SHELTER_Workplane	Illuminance	Fc	19.14	29	2	9.57	14.50

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

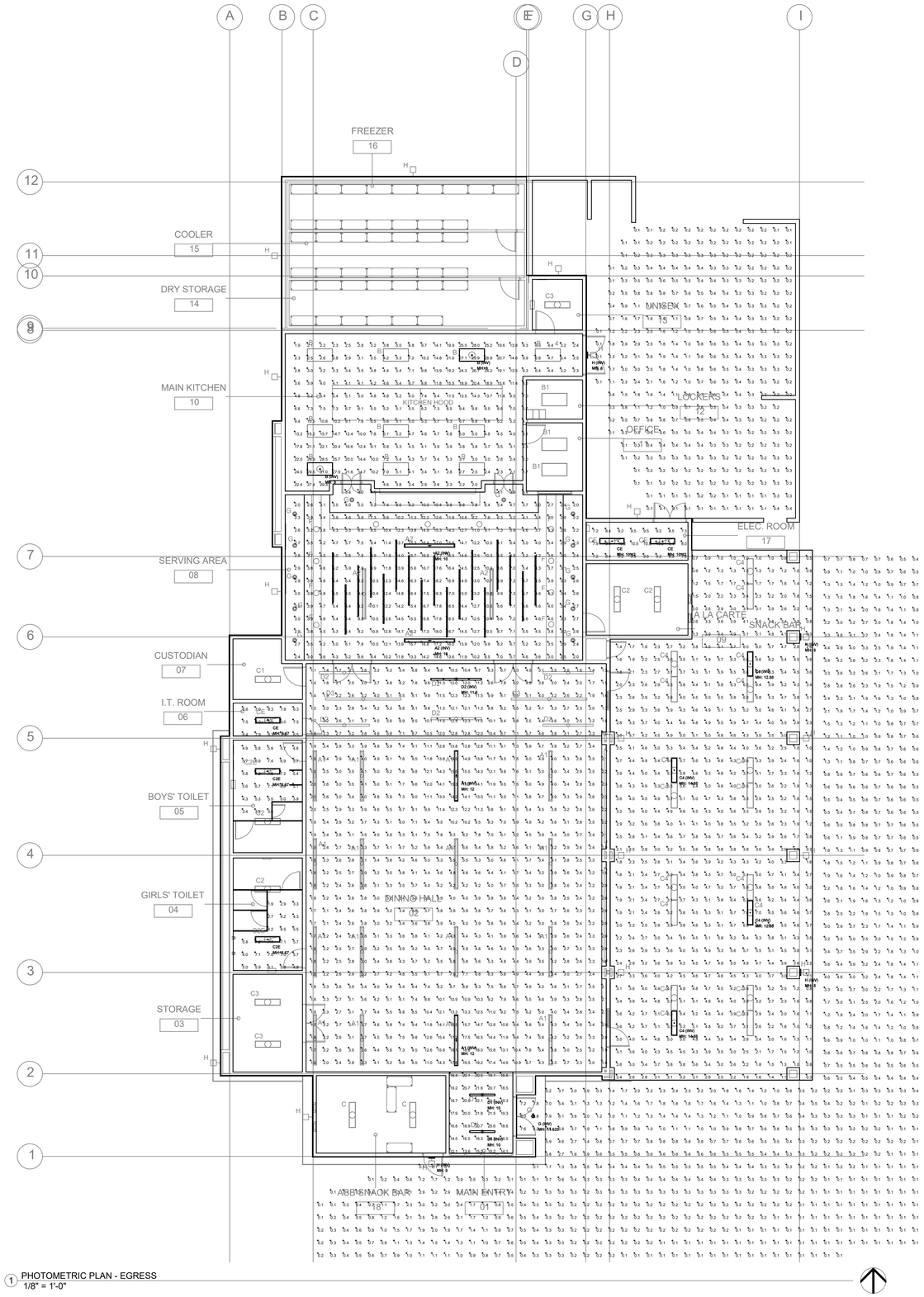
ROSAMOND HIGH EARLY COLLEGE CAMPUS

2925 ROSAMOND BLVD.
ROSAMOND, CA 93560

Drawing Title

PHOTOMETRIC PLAN - NORMAL

Job No. 2990.000
Date 01.30.2023
Sheet No. **E403**



1 PHOTOMETRIC PLAN - EGRESS
1/8" = 1'-0"

Johname: ROSAMOND HIGH SCHOOL – CAFETERIA
Report for: Pacific Engineers Group
c/o: Corey Cioci
Report by: Christian Almonte / Applications Engineer
Mounting Ht: See Drawing [PLEASE VERIFY CORRECT HEIGHTS]
Reflectance: 80/50/20 [UNLESS OTHERWISE SPECIFIED]
See Luminaire Schedule for Light Loss Factor [UNLESS OTHERWISE SPECIFIED]
Filename: Rosamond HS_Cafe LTG_2022-11 EGRESS.AGI
Date:11/28/2022

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Luminaire Schedule

Symbol	Qty	Label	Arrangement	Arr. Lum. Lumens	LLF	Description
	2	A1 (INV)	SINGLE	5388	1.700	LITECONTROL: SAE104-P-LPA-4F-SOF-35K-130-4D (LLF prorated from 4')
	2	A2 (INV)	SINGLE	8162	1.700	LITECONTROL: SAE104-P-LPA-4F-SOF-35K-155-2D (LLF prorated from 4')
	2	B (INV)	SINGLE	6859	0.850	HURTZON: FP-2X4-2LEDR-840-UNV
	2	C2E	SINGLE	4953	0.282	COLUMBIA: SRP14-40ML -EL14
	4	C4 (INV)	SINGLE	3537	0.850	COLUMBIA: SRP14-40MW
	3	CE	SINGLE	7142	0.196	COLUMBIA: SRP14-40VL -EL14
	2	D1 (INV)	SINGLE	2741	0.850	PRUDENTIAL: BPRO4-REC-FLSH-LED-MO-4'-SAL
	1	D2 (INV)	GROUP	3700	0.850	PRUDENTIAL: BPRO4-REC-FLSH-LED-LO-8'-SAL
	1	G (INV)	SINGLE	1228	0.850	VANTAGE: AIRVEFLED-U-1535
	4	H (INV)	SINGLE	2408	0.850	NEWSTAR: GWRO-MD-40-UN

Calculation Summary

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
02_Floor	Illuminance	Fc	5.91	22.1	1.1	5.37	20.09
04_Floor	Illuminance	Fc	5.42	7.7	1.9	2.85	4.05
05_Floor	Illuminance	Fc	5.69	7.8	3.4	1.67	2.29
06_Floor	Illuminance	Fc	7.76	9.5	6.3	1.23	1.51
08_Floor	Illuminance	Fc	8.23	18.3	2.0	4.12	9.15
10_Floor	Illuminance	Fc	8.87	31.0	1.7	5.22	18.24
17_Floor	Illuminance	Fc	8.90	10.5	7.2	1.24	1.46
EXTERIOR	Illuminance	Fc	0.90	8.8	0.1	9.00	88.00
SHELTER_Floor	Illuminance	Fc	3.61	7.0	0.3	12.03	23.33

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SCHOOL DISTRICT

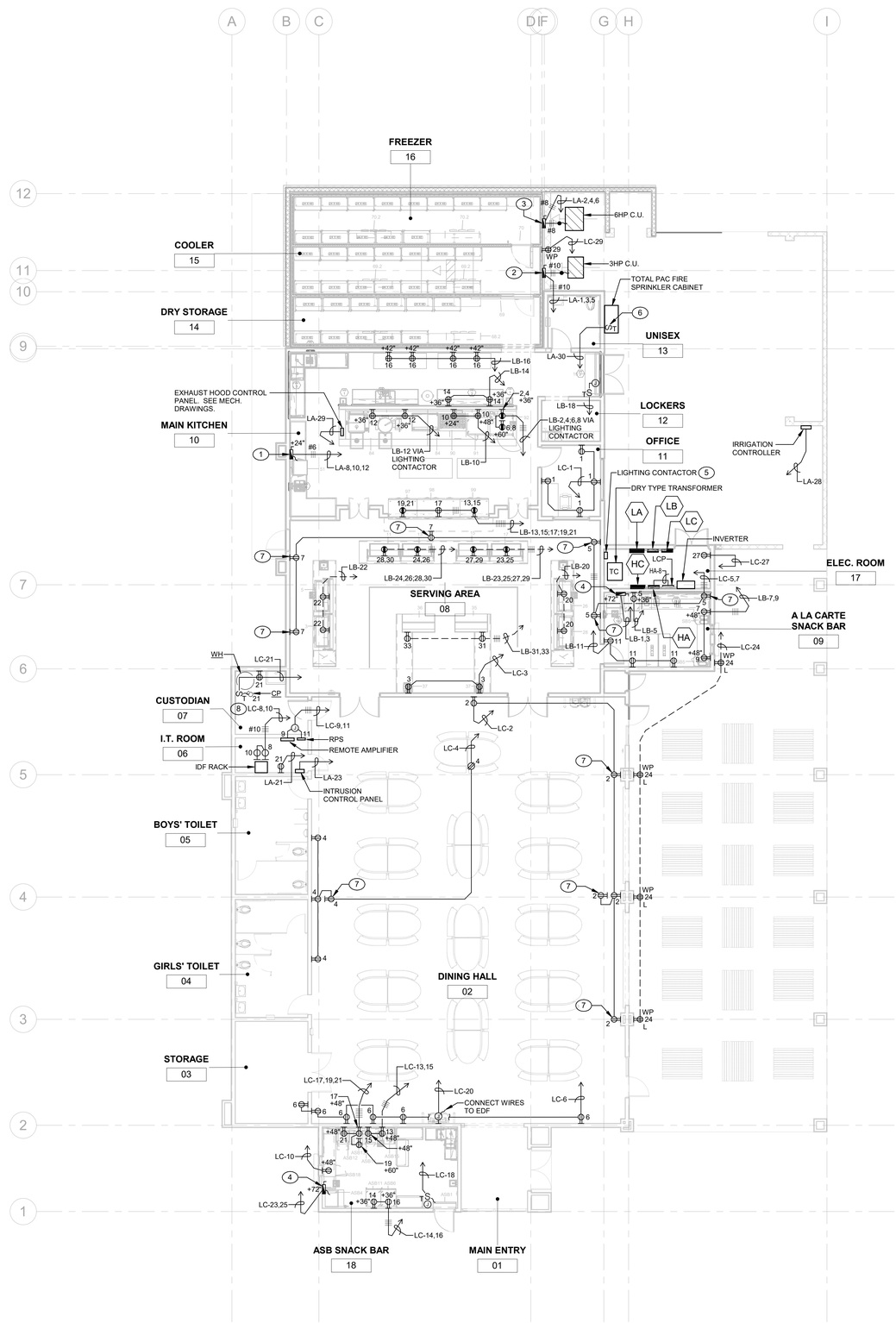
ROSAMOND HIGH EARLY COLLEGE CAMPUS

2925 ROSAMOND BLVD.
ROSAMOND, CA 93560

Drawing Title

PHOTOMETRIC PLAN - EGRESS

Job No. 2990.000
Date 01.30.2023
Sheet No. **E404**



1 POWER PLAN
1/8" = 1'-0"

KEYED NOTES

1. HEAVY DUTY TYPE DISCONNECT SWITCH 60 AMPS, 3POLE, 240 VOLTS WITH (3) 60 AMPS DUAL ELEMENT FUSES IN NEMA 1 ENCLOSURE.
2. HEAVY DUTY TYPE DISCONNECT SWITCH 60 AMPS, 3POLE, 240 VOLTS WITH (3) 35 AMPS DUAL ELEMENT FUSES IN NEMA 3R ENCLOSURE.
3. HEAVY DUTY TYPE DISCONNECT SWITCH 60 AMPS, 3POLE, 240 VOLTS WITH (3) 60 AMPS DUAL ELEMENT FUSES IN NEMA 3R ENCLOSURE.
4. HEAVY DUTY TYPE DISCONNECT SWITCH 30 AMPS, 2POLE, 240 VOLTS WITH (2) 20 AMPS DUAL ELEMENT FUSES IN NEMA 1 ENCLOSURE.
5. WALL MOUNTED LIGHTING CONTACTOR WITH 120 VOLT COIL, 30 AMPS, 6 POLES NORMALLY CLOSED CONTACTS IN NEMA 1 ENCLOSURE. SEE WIRING DETAIL 8/FA102.
6. MOUNT "ST" SWITCH INSIDE CABINET.
7. MOUNT DUPLEX OUTLET NEXT TO TV DISPLAY AV OUTLET.
8. 3/4"C, 4#10 & 1#10 GND + 1#6 GND. BOND #6 GND TO IDF RACK METAL FRAME.

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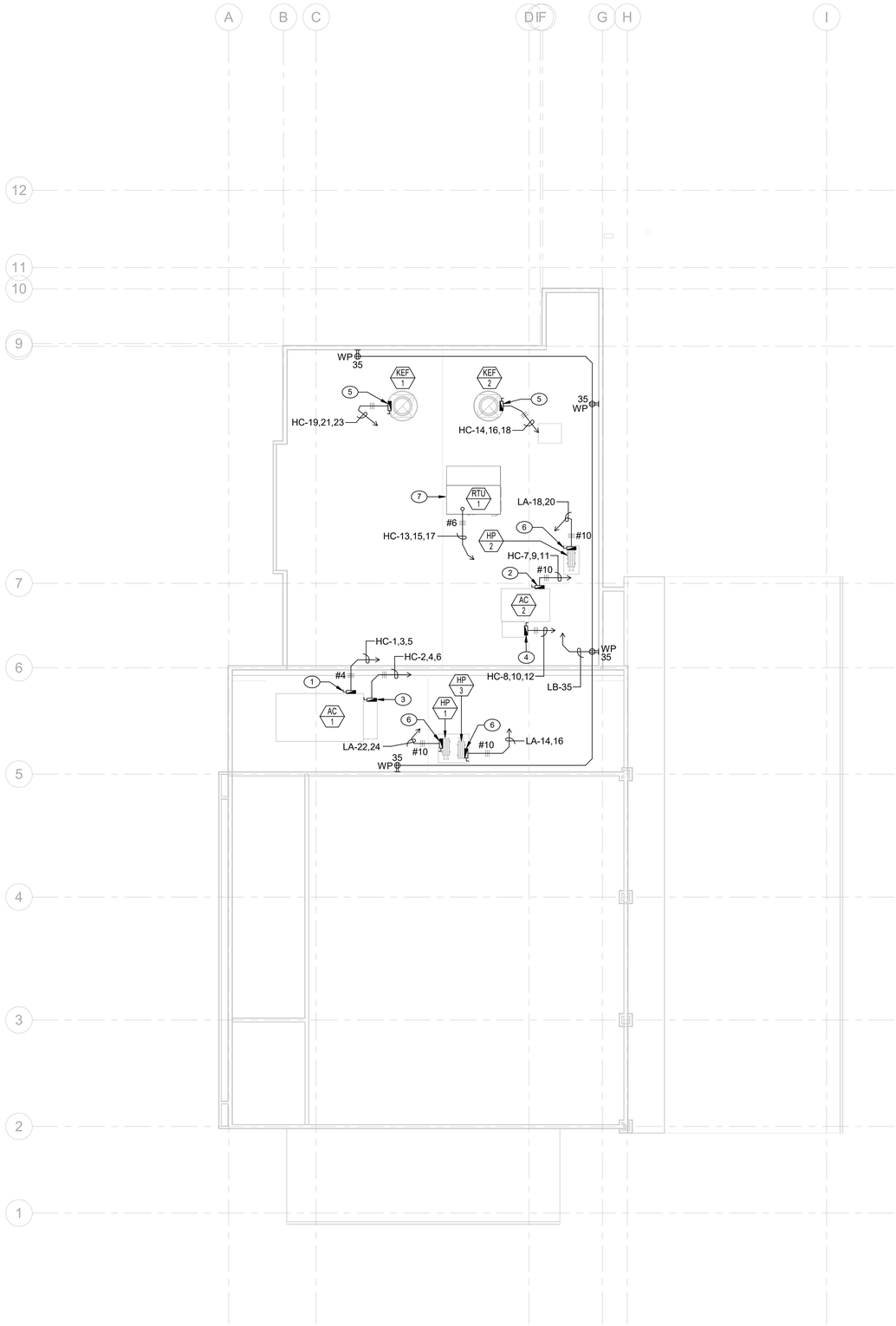
ROSAMOND HIGH EARLY COLLEGE CAMPUS

2925 ROSAMOND BLVD.
ROSAMOND, CA 93560

Drawing Title

POWER PLAN

Job No. 2990.000
Date 01.30.2023
Sheet No. **E501**



1 ROOF POWER PLAN
1/8" = 1'-0"

KEYED NOTES

1. HEAVY DUTY TYPE DISCONNECT SWITCH 100 AMPS, 3POLE, 480 VOLTS WITH (3) 80 AMPS DUAL ELEMENT FUSES IN NEMA 3R ENCLOSURE.
2. HEAVY DUTY TYPE DISCONNECT SWITCH 30 AMPS, 3POLE, 480 VOLTS WITH (3) 25 AMPS DUAL ELEMENT FUSES IN NEMA 3R ENCLOSURE.
3. HEAVY DUTY TYPE DISCONNECT SWITCH 30 AMPS, 3POLE, 480 VOLTS WITH (3) 20 AMPS DUAL ELEMENT FUSES IN NEMA 3R ENCLOSURE.
4. HEAVY DUTY TYPE DISCONNECT SWITCH 30 AMPS, 3POLE, 480 VOLTS WITH (3) 7.5 AMPS DUAL ELEMENT FUSES IN NEMA 3R ENCLOSURE.
5. HEAVY DUTY TYPE DISCONNECT SWITCH 30 AMPS, 3POLE, 480 VOLTS WITH (3) 6.5 AMPS DUAL ELEMENT FUSES IN NEMA 3R ENCLOSURE.
6. HEAVY DUTY TYPE DISCONNECT SWITCH 60 AMPS, 2POLE, 240 VOLTS WITH (2) 35 AMPS DUAL ELEMENT FUSES IN NEMA 3R ENCLOSURE.
7. ROOF TOP UNIT (RTU) WITH FACTORY INSTALLED DISCONNECT SWITCH.

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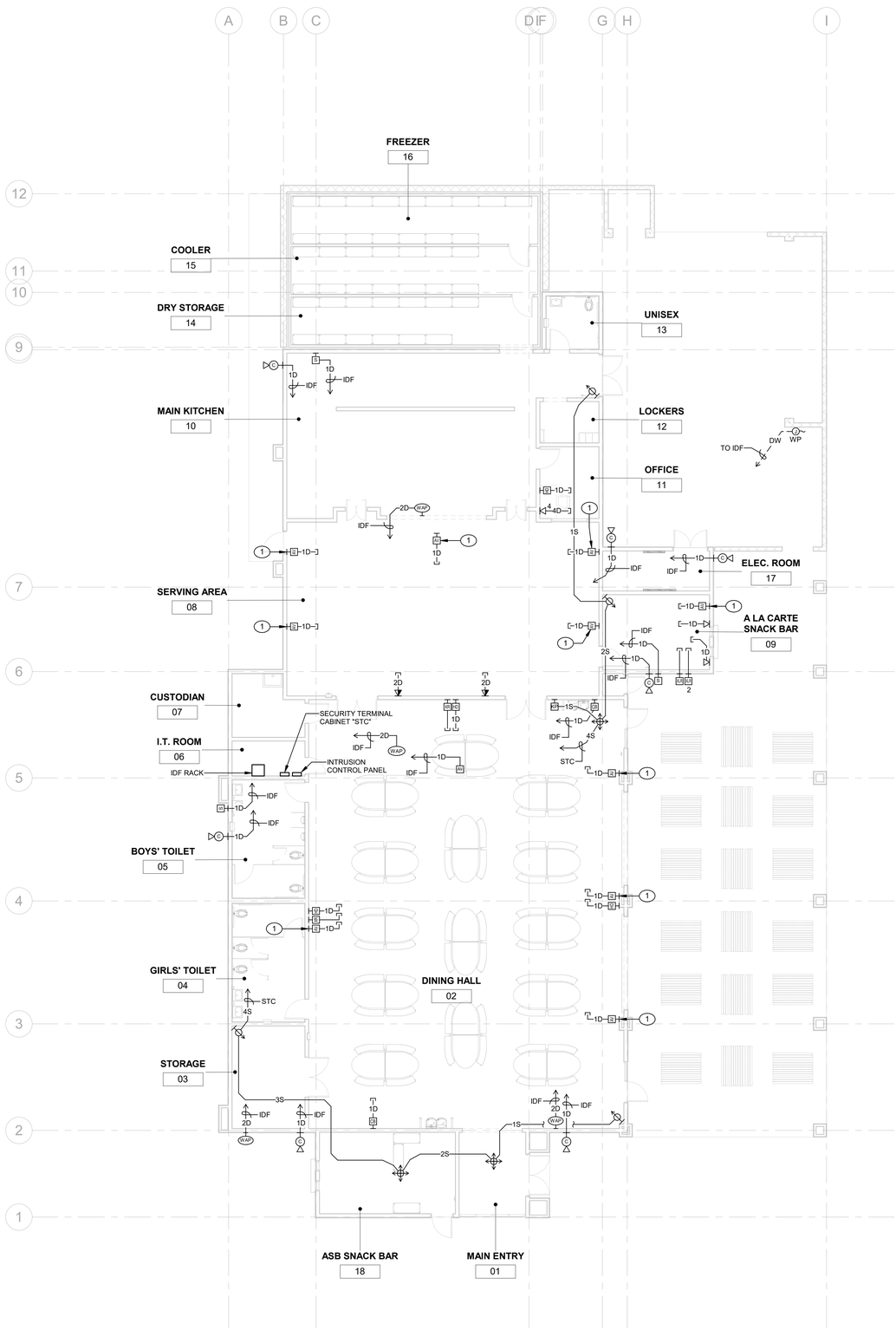
Drawing Title

ROOF POWER PLAN

Job No. 2990.000
Date 01.30.2023
Sheet No. **E502**



1 SIGNAL PLAN
1/8" = 1'-0"

KEYED NOTES

(1) MOUNT AV OUTLET ADJACENT TO TV DISPLAY MOUNTING BRACKET SUPPORT.

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E21979
Exp. 09/30/23
STATE OF CALIFORNIA

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Drawn by: HY
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Revisions

No.	Date	Description

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared for a specific site. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Flewelling & Moody.

SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

2925 ROSAMOND BLVD.
ROSAMOND, CA 93560

Drawing Title

SIGNAL PLAN

Job No. 2990.000
Date 01.30.2023
Sheet No. **E601**

FIRE ALARM SYMBOL LIST

FATC	FIRE ALARM TERMINAL CABINET WITH TERMINAL STRIPS. 14"x14"x6" DEEP
MFACP	MAIN FIRE ALARM CONTROL PANEL.
FA	FIRE ALARM.
#OF DEVICE / CKT # — A1-1 / V2-1 — SS 15cd	RPS — REMOTE POWER SUPPLY.
	RA — REMOTE AMPLIFIER.
	FIRE ALARM WALL MOUNTED SPEAKER WITH STROBE LIGHT, CANDELA RATING AS INDICATED. +96" TO TOP OF STROBE LIGHT. "A" DENOTES AUDIBLE FIRE ALARM SIGNAL CIRCUIT AND "V" DENOTE VISUAL FIRE ALARM SIGNAL CIRCUIT. "15cd " DENOTES CANDELA RATING. 1/2 WATT SPEAKER TAP. U.O.N.
S1-1 — F H	FIRE ALARM MANUAL PULL STATION. PROVIDE MONITOR MODULE TO EACH DEVICE, +48". "S1-1" DENOTES LOOP MODULE (SLC #1) IDENTIFICATION NUMBER.
SPEAKER TAPPED — WP A1-1 — SPSR [2]	EXTERIOR W.P. FIRE ALARM SPEAKER. "A1-1" DENOTES AUDIBLE FA SIGNAL CIRCUIT NUMBER.
V2-1 — S 15cd	FIRE ALARM STROBE. MOUNT AT +96" TO TOP OF STROBE. CANDELA RATING AS INDICATED. "V2-1" DENOTES FIRE ALARM SIGNAL CIRCUIT NUMBER. "15cd" DENOTES 15cd CANDELA RATING.
B	SPRINKLER BELL 24VDC.
S1-1 SD	ADDRESSABLE SMOKE DETECTOR, PHOTOELECTRIC TYPE. "S1-1" DENOTES LOOP DETECTOR IDENTIFICATION NUMBER.
S1-1 MM	MONITOR MODULE. "S1-1" DENOTES LOOP DETECTOR IDENTIFICATION NUMBER.
S1-1 CR	CONTROL RELAY MODULE. "S1-1" DENOTES LOOP DETECTOR IDENTIFICATION NUMBER.

GENERAL FIRE ALARM NOTES

1. THE FIRE ALARM SYSTEM SHALL CONFORM TO ARTICLE 760 OF THE CALIFORNIA ELECTRICAL CODE, CURRENT CALIFORNIA TITLE 24 REQUIREMENTS, CALIFORNIA FIRE CODE, NFPA 72 STANDARDS, AMERICAN WITH DISABILITY ACT (ADA) REQUIREMENTS.
2. SPECIFIC COMPONENTS ON CATALOG CUT SHEETS MUST BE HIGHLIGHTED OR IDENTIFIED.
3. PANELS MUST NOT BE MOUNTED HIGHER THAN 6 FEET AND SYSTEM STATUS DISPLAYS ARE TO BE AT EYE LEVEL (+60" A.F.F.). NO EQUIPMENT OR RACEWAY MAY BE LOCATED UNDER A CABINET CONTAINING BATTERIES.
4. PROVIDE AT LEAST ONE TERMINATION CABINET IN EACH BUILDING FOR TERMINATION OF ALL FIRE ALARM WIRING. PROVIDE A MAIN TERMINAL CABINET IN MAIN BUILDING FOR ROUTING ALL FIRE ALARM SYSTEM WIRING FOR ENTIRE SCHOOL.
5. CONTRACTOR SHALL INSTALL AND FURNISH A COMPLETE VOICE EVAC ADDRESSABLE FIRE ALARM SYSTEM, INCLUDING BUT NO LIMITED TO WIRING, CONDUITS AND DEVICES REQUIRED FOR SATISFACTORY OPERATION OF SYSTEM.
6. HEAT DETECTORS WHERE INSTALLED ABOVE SUSPENDED CEILING SHALL HAVE THEIR LOCATIONS BE CLEARLY MARKED BELOW THE CEILING AND BE ACCESSIBLE. LETTERING SHOULD BE 3/4" HIGH, RED ON WHITE BACKGROUND AND BOLD ENOUGH TO BE EASILY SEEN BY PERSONNEL FROM THE FLOOR.
7. FIRE ALARM WIRING FOR INITIATING DEVICES; I.E. PULL STATION SMOKE/HEAT DETECTORS, MONITOR AND CONTROL MODULES ETC. SHALL BE LOOPED IN AND OUT FROM ANY DEVICES. T-TAPPING IS NOT ALLOWED.
8. ALL EXPOSED CONDUITS AND BOXES SHALL BE PAINTED TO MATCH THE SURFACES WHERE INSTALLED AND LABELED FIRE ALARM CIRCUITS.
9. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND EQUIPMENT AND MATERIALS APPROVED FOR USE UNDER THIS CONTRACT.
10. QUANTITY OF WIRES SHOWN IN ALL CONDUITS IS FOR GENERAL GUIDELINE. SUPPLIER OF FIRE ALARM SYSTEM SHALL PREPARE CONSTRUCTION DRAWINGS SHOWING ALL NECESSARY WIRES AND SIZES OF ALL CONDUITS SHOWN. PROVIDE SPARE WIRES BETWEEN BUILDINGS.
11. DRAWINGS DO NOT SHOW ALL THE NECESSARY J-BOXES AND PULL BOXES WHICH WILL BE REQUIRED THROUGHOUT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL THESE BOXES AS NECESSARY TO TERMINATE CONDUITS AND RACEWAYS. PAINT BOXES TO MATCH COLOR OF THE FINISHED BUILDING WALLS.
12. ALL JUNCTION BOXES AND DEVICES INDICATED ON BUILDING EXTERIORS SHALL BE WEATHERPROOF TYPE.
13. FIRE ALARM WIRES SHALL BE COPPER TYPE THWN/THHN.
14. ALL SIGNAL WIRING IN UNDERGROUND CONDUITS SHALL BE WET LOCATION TYPE AND LISTED FOR IT'S USE.
15. WHEN ALL FIRE ALARM DEVICES ARE INSTALLED AND PROGRAMMING IS COMPLETE, PROVIDE A FIRE ALARM DEVICE MAP IN THE SCHOOL MAIN OFFICE TO INDICATE TO SCHOOL PERSONNEL THE LOCATIONS OF THE NEW DEVICES.
16. JUNCTION BOXES SHALL NOT CONTAIN SPLICES. CONDUCTORS SHALL BE PULLED THROUGH. TERMINATIONS SHALL BE PERFORMED.
17. "LABEL DESCRIPTIONS" INDICATING DEVICE TYPES AND LOCATIONS THAT ARE DISPLAYED ON THE FIRE ALARM LCD. DISPLAY SHOULD BE CLEAR EASILY UNDERSTOOD BY THE OFFICE STAFF. DESCRIPTIONS SHOULD BE BASED ON THE STAFF'S UNDERSTANDING OF THE SITE AND NOT ON INFORMATION TAKEN FROM PRINTS.
18. AIR MOVING SYSTEMS SUPPLYING AIR IN EXCESS OF 2000CFM TO ENCLOSED SPACES WITHIN BUILDINGS SHALL BE EQUIPPED WITH AN AUTOMATIC SHUT-OFF. AUTOMATIC SHUT-OFF SHALL BE ACCOMPLISHED BY INTERRUPTING THE POWER SOURCE OF THE AIR-MOVING EQUIPMENT UPON DETECTION OF SMOKE IN THE MAIN SUPPLY AIR DUCT SERVED BY SUCH EQUIPMENT. 2019 CALIFORNIA MECHANICAL CODE 608.00 TITLE 24 PART 4. AREA DETECTORS MAY BE USED FOR HVAC SHUT-DOWN IF THEY FULFILL ALL REQUIREMENTS SET FORTH BY THE 2019 CMC.
19. SMOKE DETECTORS SHALL BE USED AS THE PRIMARY METHOD OF AUTOMATIC FIRE ALARM SYSTEM INITIATION EXCEPT IN AREAS WHERE THE ENVIRONMENT OR AMBIENT CONDITIONS EXCEED SMOKE DETECTION GUIDELINES.
20. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO MAINTAIN CONTINUITY OF THE EXISTING FIRE ALARM SYSTEM, CENTRAL STATION REPORTING SYSTEM, SMOKE MANAGEMENT SYSTEM, AND ANY OTHER LIFE SAFETY EQUIPMENT EXISTING AT THE SITE AND AFFECTED BY HIS WORK ON THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIRE WATCH OR OTHER MITIGATING MEASURES FOR SYSTEMS THAT ARE MADE INACTIVE OR OTHERWISE COMPROMISED AS A RESULT OF THE WORK PERFORMED BY THAT CONTRACTOR.

FIRE ALARM CABLE AND WIRING

"F" CABLE -	"WEST PENN" NO. D980, 1 PAIR #18 NON-SHIELDED - FIRE ALARM ADDRESSABLE LOOP.
"FW" CABLE -	"WEST PENN" NO. AQC225, 1 PAIR #16 NON-SHIELDED - FIRE ALARM ADDRESSABLE LOOP (UNDERGROUND).
"A" CABLE -	2#14 TWISTED PAIR, AUDIO CIRCUIT CABLE.
"AW" CABLE -	2#14 TWISTED PAIR, AUDIO ZYNC CABLE/SYNC CABLE WET LOCATION (AUDIO).
"V" CABLE -	2#12 AWG-FIRE ALARM VISUAL CIRCUIT CABLE.
"VW" CABLE -	2#12 TWISTED PAIR VISUAL SYNC CABLE, WET LOCATION.
F,A,V / F,A,V / G	3/4"C, WITH ONE "F" CABLE, ONE "N" CABLE AND ONE "V" CABLE.
F	3/4" CONDUIT WITH ONE "F" CABLE.
2F	3/4" CONDUIT WITH TWO "F" CABLES.
V	3/4" CONDUIT WITH ONE "V" CABLE.
2V	3/4" CONDUIT WITH TWO "V" CABLES.
A	3/4" CONDUIT WITH ONE "A" CABLE.
2A	3/4" CONDUIT WITH TWO "A" CABLES.
2F,2A,2V	1-1/2" CONDUIT WITH TWO "F", TWO "A", TWO "V" CABLES.
2A,2V	1" CONDUIT WITH TWO "A", TWO "V" CABLES.
F,A,2V	1" CONDUIT WITH ONE "F", ONE "A", TWO "V" CABLES.

FIRE ALARM GENERAL NOTES

1) APPLICABLE STANDARD NFPA 72, as adopted and amended in CBC Chapter 35

2) INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATION, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM, HAS BEEN APPROVED BY DSA.

3) UPON COMPLETION OF SYSTEM INSTALLATION, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF A DSA PROJECT INSPECTOR.

4) A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION.

5) ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND THE ARCHITECT/ENGINEER OF THE PROJECT.

6) DSA, ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND /OR TESTING.

7) ALL PENETRATIONS THROUGH RATED ASSEMBLIES REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM AS IDENTIFIED IN CBC CHAPTER 7, UL OR OTHER APPROVED LAB TESTING CRITERIA. APPROVED TYPES OF MATERIALS SHALL BE IDENTIFIED WITHIN THE PROJECT SPECIFICATIONS WITHIN THE FIRE ALARM SECTION.

8) WALL MOUNTED VISIBLE NOTIFICATION DEVICES SHALL HAVE THEIR BOTTOMS MOUNTED AT 80" MINIMUM AND 96" MAXIMUM FROM FINISHED FLOOR.

9) WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90" MINIMUM AND 100" MAXIMUM FROM FINISHED FLOOR AND NO CLOSER THEN 6" TO A HORIZONTAL STRUCTURE.

10) AUDIBLE DEVICES SHALL PROVIDE A SOUND PRESSURE LEVEL OF 15 DECIBELS (dBA) ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR FIVE dBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF AT LEAST 60 SECONDS, WHICHEVER IS GREATER, IN EVERY OCCUPIABLE SPACE WITHIN THE BUILDING.

11) AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL CODE 3 PATTERN.

12) THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.

13) VISIBLE DEVICES SHOULD NOT EXCEED TWO FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN ONE FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELA. VISIBLE DEVICES WITHIN 55' FROM EACH OTHER SHALL BE SYNCHRONIZED.

14) UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATER TIGHT FITTINGS AND WIRE TO BE APPROVED FOR WET LOCATIONS.

15) ALL FIRE ALARM WIRING SHALL BE FPLOR FPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE TYPE THHN OR THWN.

16) PER CEC STANDARDS, ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPLICE THE WIRE. ALL BOXES TO BE SIZED PER CEC.

17) SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 1' FROM FIRE SPRINKLERS OR 3' FROM ANY SUPPLY DIFFUSER. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION ON NEWLY INSTALLED FIRE ALARM, DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER.

18) ALL FIRE ALARM CIRCUITS SHALL BE IN CONCEALED CONDUIT OR SURFACE RACEWAY ONLY AS APPROVED BY THE ARCHITECT.

19) FIRE ALARM PANEL, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS.

20) A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM THE COMMON USE AREA PANEL AND SHALL HAVE NO OTHER OUTLETS. THE BREAKER SHALL HAVE A RED LOCKING DEVICE TO BLOCK THE HANDLE IN THE "ON" POSITION. THE CIRCUIT BREAKER SHALL BE LABELED "FIRE ALARM CIRCUIT CONTROL." CIRCUIT ID TO BE LABELED AT FIRE PANEL/EXTENDERS.

21) THE INSTALLING CONTRACTOR SHALL PROVIDE A COMPLETED "SYSTEM RECORD OF COMPLETION" PER NFPA 72, FIGURE 17.8.2.

22) FIRE ALARM CONTROL PANELS AND REMOTE ANNUNCIATORS SHALL BE INSTALLED WITH THEIR BOTTOMS MOUNTED AT 48" ABOVE THE FINISHED FLOOR.

23) MICROPHONES ASSOCIATED WITH EMERGENCY VOICE ALARM COMMUNICATION SYSTEMS (EVAC) SHALL BE ACCESSIBLE FOR USE, INSTALLED IN COMPLIANCE WITH CBC SECTIONS 11B-305 AND 11B-308.

24) THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC SECTION 901.6.2.

25) SUPERVISORY MONITORING SHALL BE TESTED AND VERIFIED AS SENDING CORRECT SIGNALS IN CONJUNCTION WITH FINAL ACCEPTANCE TEST.

26) OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS.

SYMBOLS	COMPONENT	NOTIFIER	CSFM NO.
	MAIN FIRE ALARM VOICE EVAC CONTROL PANEL	NFS2-3030 DVC	7165-0028:0224
	UNIVERSAL DIGITAL ALARM COMMUNICATOR TRANSMITTER	UDACT-2	7165-0028:0224
	ANNUNCIATOR PANEL	LCD-160	7165-0028:0224
	REMOTE AMPLIFIER - RA	DAA 50/70	7165-0028:0224
	REMOTE POWER SUPPLY - RPS	PSE-6	7315-0028:0513
	REMOTE MICROPHONE	DVC-RPU	7165-0028:0224
SD	SMOKE DETECTOR, PHOTOELECTRIC TYPE WITH B210LP BASE	FAPT-851	7300-1653:0109
F H	PULL STATION WITH MONITOR MODULE	NBG-12 DUAL ACTION	7150-0028:0199
(cd) S	STROBE, WALL MOUNT	NOTIFIER SRL	7125-1653:0504
(cd) SS	SPEAKER-STROBE, WALL MOUNT	NOTIFIER SPSRL	7320-1653:0505
WP SPSR	EXTERIOR SPEAKER	NOTIFIER-SPRK WITH MWBB BACKBOX	7320-1653:0201
MM	MONITOR MODULE	FMM-4-20	7300-0028:0254
CR	CONTROL RELAY MODULE	FRM-1(A)	7300-0028:0219
FS	FLOW SWITCH	POTTER-VSP	7770-0328:0001
TS	TAMPER SWITCH	POTTER-OSYSU	7770-0328:0010
B	SPRINKLER BELL	POTTER-PBA2410	7135-0328:0119

BATTERY SIZING CALCULATION

ROSAMOND HIGH SCHOOL CAFETERIA
NFS2-3030 DVC

Quantity	Device Type	Model Number	Standby Current	Total Standby Current	Alarm Current	Total Alarm Current
1	NFS2-3030	AMPS-24	0.13000	0.13000	0.13000	0.13000
1	NFS2-3030	CPU2-3030D	0.34000	0.34000	0.34000	0.34000
1	NFS2-3030	LCM-320	0.13000	0.13000	0.13000	0.13000
1	NFS2-3030	LEM-320	0.10000	0.10000	0.10000	0.10000
1	VOICE	DAA2-5070	0.40000	0.40000	0.55000	0.55000
1	VOICE	DVC,DVC-KD,&RM-1	0.56000	0.56000	0.56000	0.56000
1	VOICE	DVC-AO	0.17500	0.17500	0.17500	0.17500
7	CONTROL RELAY	FRM-1 (E)3+(N)4=7	0.00026	0.00182	0.00650	0.04550
(E)38	HEAT DET	FST-851	0.00030	0.01140	0.00650	0.24700
5	MONITOR	FMM-1	0.00035	0.00175	0.00500	0.02500
31	PULL STATION	NBG-12LX (E)33+(N)4=37	0.00038	0.01178	0.00688	0.21328
52	SMOKE DET	FSP-851 (E)27+(N)25=52	0.00030	0.01560	0.00680	0.35360
1	ANN	LCD-160	0.07500	0.07500	0.32500	0.32500
				Standby Load 1.952		Alarm Load 3.194

Standby Load: 1.952 Amps — Alarm Load: 3.194 Amps
Standby Time: 24 Hours — Alarm Time: 15 Minutes
Total Standby Load: 46.86 Amp*Hours — Total Alarm Load: 0.80 Amp*Hours

Batteries Provided: (2) BAT-121000 — Available Battery: 80.00 A.H.
Battery Size: 100.00 A.H. — Load (ALM + STBY): 47.65 A.H.
De-Rated Size(80%): 80.00 A.H. — Spare Capacity: 32.35 A.H.

BATTERY SIZING CALCULATION

DAA 50/70 Voice Control Panel - Remote Amplifier - RA

Quantity	Device Type	Model Number	Standby Current	Total Standby Current	Alarm Current	Total Alarm Current
1	DAA 50/70		0.06500	0.06500	2.00000	2.00000
4	Speaker 70V	Speaker - 1/2 Watt Tap	0.00000	0.00000	0.00714	0.02856
5	Speaker 70V	Speaker - 1 Watt Tap	0.00000	0.00000	0.01428	0.07140
6	Speaker 70V	Speaker - 2 Watt Tap	0.00000	0.00000	0.02857	0.17142
				Standby Load 0.065		Alarm Load 2.271

Standby Load: 0.065 Amps — Alarm Load: 2.271 Amps
Standby Time: 24 Hours — Alarm Time: 15 Minutes
Total Standby Load: 1.56 Amp*Hours — Total Alarm Load: 0.57 Amp*Hours

Batteries Provided: (2) BAT-12180 — Available Battery: 14.40 A.H.
Battery Size: 18.00 A.H. — Load (ALM + STBY) 2.13 A.H.
De-Rated Size(80%): 14.40 A.H. — Spare Capacity 12.27 A.H.

FIRE ALARM SEQUENCE OF OPERATION

DEVICE/ACTION	MANUAL PULL STATION	AREA SMOKE DETECTOR	SPRINKLER WATER FLOW SWITCH	SPRINKLER VALVE TAMPER SWITCH	DCVD TAMPER SWITCH	TOTAL PAC SPRINKLER		KITCHEN FIRE SUPPRESSION	POWER FAILURE
						FLOW SWITCH	TAMPER SWITCH		
ANNUNCIATE ALARM AT FACP AND REMOTE ANNUNCIATOR	X	X	X			X		X	
ANNUNCIATE SUPERVISORY CONDITION AT FACP AND REMOTE ANNUNCIATOR				X	X		X		
ANNUNCIATE TROUBLE AT FACP AND REMOTE ANNUNCIATOR*	X	X	X	X	X	X	X	X	X
ACTIVATE AUDIBLE/VISUAL SIGNAL THROUGHOUT SCHOOL(ALARM)	X	X	X			X		X	
CONTACT CENTRAL STATION (UDACT)	X	X	X	X	X	X	X	X	X
SHUT DOWN AIR HANDLING EQUIPMENT (FOR AREA IN ALARM)		X	X			X			
SOUND SPRINKLER BELL			X						

FIRE ALARM SIGNAL CIRCUIT SCHEDULE

CKT. NO.	QUAN. STROBE 15 cd 0.043	QUAN. STROBE 30 cd 0.063	QUAN. STROBE 75 cd 0.107	QUAN. STROBE 110cd 0.148	TOTAL AMPS	WIRE SIZE	DISTANCE (IN FEET)	TO MFACP	TO POWER EXTENDER	PERCENT VOLTAGE DROP
V1	4			2	0.47	#12	395		X	2.55
V2	4		1	2	0.58	#12	310		X	2.46
V3					0.00	#12	SPARE			0.00
V4					0.00	#12	SPARE			0.00

I = TOTAL CURRENT FLOW IN ALARM CONDITION
L = LENGTH OF CIRCUIT FROM SUPPLY TO LAST DEVICE (IN FEET)
21.6 = RESISTIVITY OF COPPER CONDUCTOR PER CIRCULAR MILL (10.8 X 2 FOR TWICE THE LENGTH)
C.M. = CROSS SECTIONAL AREA OF CONDUCTOR IN CIRCULAR MILLS
VOLTAGE DROP = (I) X (L) X 21.6 / (CM)

BATTERY CALCULATIONS - POWER EXTENDER RPS

EQUIPMENT MODEL	QUANTITY	SUPERVISORY CURRENT, A UNIT	SUPERVISORY CURRENT, A TOTAL	ALARM CURRENT, A UNIT	ALARM CURRENT, A TOTAL
POWER SUPPLY PSE-6	1	0.02	0.02	0.16	0.16
110cd ALARM STROBE LIGHT 24 VDC	4	0	0	0.148	0.592
75cd ALARM STROBE LIGHT 24 VDC	1	0	0	0.111	0.111
30cd ALARM STROBE LIGHT 24 VDC	0	0	0	0.063	0
15cd ALARM STROBE LIGHT 24 VDC	8	0	0	0.043	0.344

STANDBY AH 0.48 — SUB TOTAL 0.02 — SUB TOTAL 1.207
ALARM AH 0.30 — HOURS 24.00 — HOURS 0.25
TOTAL 0.78 — AH STANDBY 0.48 — AH ALARM 0.30175

PROVIDE 7 AH BATTERY PACK (0.25 HRS. = 15 MIN.)

SPEAKER CIRCUIT LOAD CALCULATION

MFG. REC. MAXIMUM LOSS IS 0.5dB

AMPLIFIER#	SPEAKER CIRCUIT DESCRIPTION: AMPLIFIER LOCATION	CIRCUIT LOCATION	PANEL CIRCUIT NUMBER	WIRE GAUGE (18, 16, 14 12)	CIRCUIT VOLTAGE (25 OR 70 VRMS)	APPLIANCES QUANTITIES / TAP VALUES: SPEAKER TAPPED AT 0.25 Watts	SPEAKER TAPPED AT 0.5 Watts	SPEAKER TAPPED AT 1 Watt	SPEAKER TAPPED AT 2 Watts	TOTAL CIRCUIT LOAD (WATTS)	ESTIMATED CIRCUIT LENGTH (FEET)	ACTUAL WIRE/LOSS (dB)	MAXIMUM ALLOWABLE CKT. LENGTH (FEET)	TOTAL CIRCUIT RESISTANCE (OHMS)
RA	CAFETERIA BLDG	DINNING, RESTROOMS, ASB SNACK BAR	A1	14 AWG	70 Vrms	0	3	2	4	11.50 Watts	550 ft.	-0.06 dB	33,958 ft.	2.9 Ohms
RA	CAFETERIA BLDG	SERVING, KITCHEN, OFF., SNACK BAR	A2	14 AWG	70 Vrms	0	1	3	2	7.50 Watts	390 ft.	-0.03 dB	52,089 ft.	2.0 Ohms
RA	CAFETERIA BLDG	SPARE	A3	14 AWG	70 Vrms	0	0	0	0	0.00 Watts	0 ft.	0.00 dB	0 ft.	0.0 Ohms
RA	CAFETERIA BLDG	SPARE	A4	14 AWG	70 Vrms	0	0	0	0	0.00 Watts	0 ft.	0.00 dB	0 ft.	0.0 Ohms
					Appliance Summary	0	4	5	6	Total Load (Watts) 19.00				

FIRE ALARM SYSTEM DESCRIPTION
FIRE ALARM SUBMITTAL CONSISTS OF COMPLETE FULLY AUTOMATIC VOICE EVACUATION FIRE ALARM SYSTEM PER DSA POLICY CFC907.2.3.

AGENCY

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122536 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/24/2023

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An Employee Owned Corporation

ARCHITECT

LICENSED ARCHITECT — C-26053 — Ren. Date 08/31/2023 — STATE OF CALIFORNIA

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

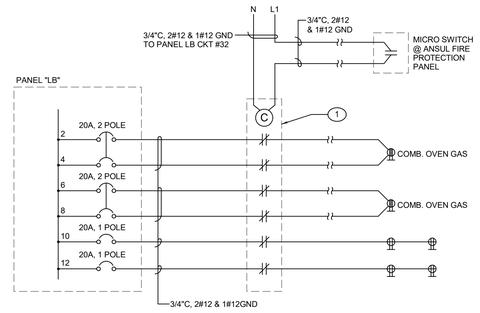
ROSAMOND HIGH EARLY COLLEGE CAMPUS

2925 ROSAMOND BLVD.
ROSAMOND, CA 93560

Drawing Title

FIRE ALARM SYMBOLS, NOTES AND CALCS.

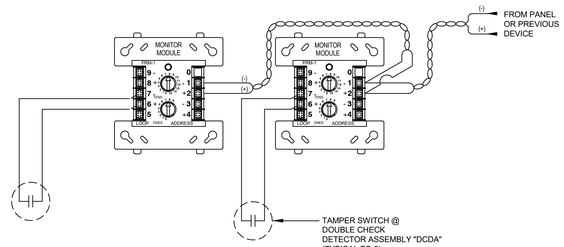
Job No. 2990.000
Date 01.30.2023
Sheet No. **FA101**



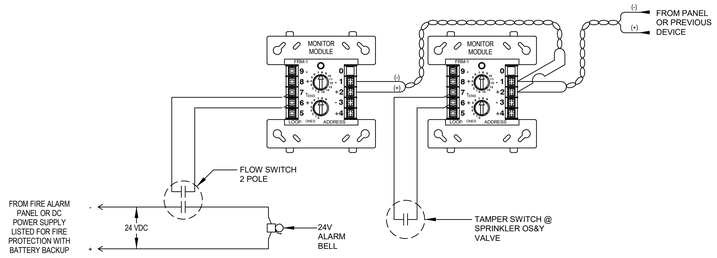
8 FA102 **COOKING EQUIPMENT SHUT-OFF WIRING DIAGRAM**
N.T.S.

KEYED NOTES

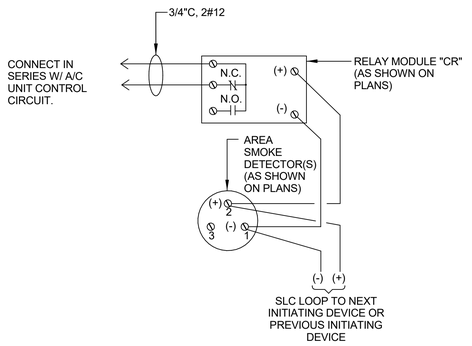
(1) LIGHTING CONTACTOR WITH 120 VOLT COIL, 30 AMPS, 6 POLES NORMALLY CLOSED CONTACT IN NEMA 1 ENCLOSURE.



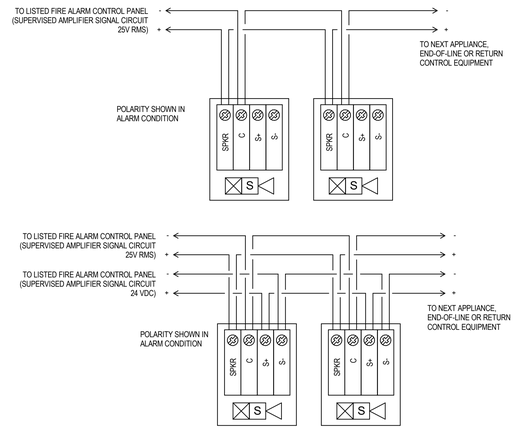
7 FA102 **DCDA & TAMPER SWITCH WIRING DIAGRAM**
N.T.S.



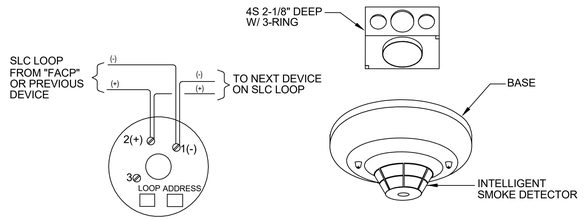
6 FA102 **SPRINKLER WATER FLOW & TAMPER SWITCH & BELL CONNECTION DIAGRAM**
N.T.S.



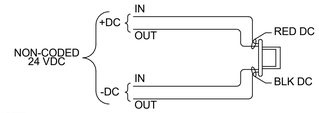
5 FA102 **TYPICAL A/C UNIT SHUT DOWN CONTROLS**
N.T.S. (LOW VOLTAGE CONTROL CIRCUIT)



4 FA102 **TYPICAL SPEAKER, SPEAKER/STROBE WIRING DIAGRAM**
N.T.S.

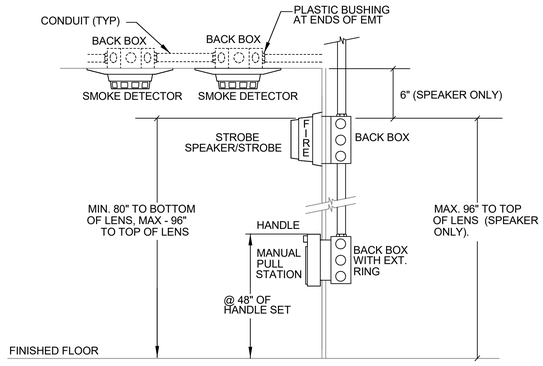


3 FA102 **SMOKE DETECTOR WIRING DIAGRAM**
N.T.S.

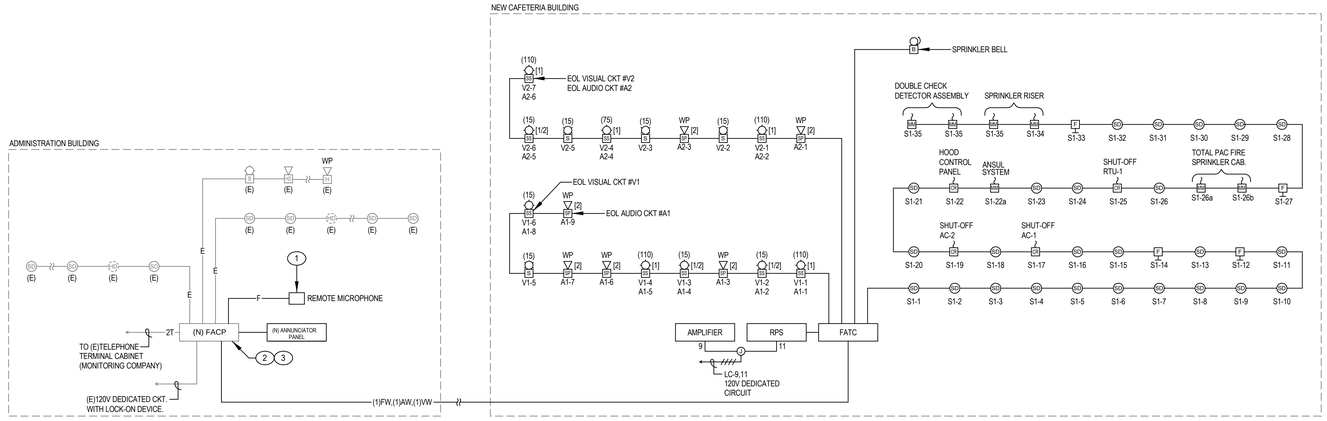


NOTE:
NOTIFICATION APPLIANCE IS RATED PER INDIVIDUAL NAMEPLATE.
VISUAL WIRING DIAGRAM

2 FA102 **STROBE LIGHT**
N.T.S.



1 FA102 **PULL STATION, SPEAKER & STROBE HEIGHT REQUIREMENTS**
N.T.S.



FIRE ALARM RISER DIAGRAM
N.T.S.

KEYED NOTES

(1) REMOTE MICROPHONE MOUNT ADJACENT TO ANNUNCIATOR PANEL.

(2) EXISTING FIRE ALARM CONTROL PANEL. REMOVE AND REPLACE ELECTRONIC DEVICES WITH NEW NOTIFIER NFS2-3030 INCLUDING BUT NOT LIMITED TO DVC-EM, DAA-2 AMPLIFIER AND MICROPHONE (VOICE EVACUATION SYSTEM FOR A COMPLETE OPERATING SYSTEM). RECONNECT ALL EXISTING DEVICES AND 120 VOLTS DEDICATED POWER SUPPLY.

(3) PROGRAM CONTROL PANEL TO COMBINE NEW AND EXISTING DEVICES. TEST NEW AND EXISTING DEVICES PER NFPA REQUIREMENTS.

AGENCY

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122536 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/24/2023

FLEWELLING & MOODY
architects *for* education

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An Employee Owned Corporation

ARCHITECT

LICENSED ARCHITECT C-26053 Ren. Date 08/31/2023 STATE OF CALIFORNIA

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER E21979 Exp. 09/30/23 STATE OF CALIFORNIA

PACIFIC ENGINEERS GROUP
Consulting Electrical Engineers
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Burbank, CA 91506
(818) 859-7081 Y22-141

Drawn by: HY
Check by: AF
Revisions

No.	Date	Description

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared for a specific site. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Flewelling & Moody.

SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

2925 ROSAMOND BLVD.
ROSAMOND, CA 93560

Drawing Title

FIRE ALARM RISER DIAGRAM & DETAILS

Job No. 2990.000
Sheet No. **FA102**
Date 01.30.2023

1 FIRE ALARM SITE PLAN
1" = 50'-0"

KEYED NOTES

1. MONITOR MODULE IN NEMA 3R ENCLOSURE. CONNECT WIRES TO TAMPER SWITCH DOUBLE CHECK DETECTOR ASSEMBLY.
2. 3/4"C, (1)FW, RUN ALONG FIRE WATER LINE, BURY 24" BELOW FINISH GRADE WITH DETECTABLE WARNING TYPE.

AGENCY

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APP: 03-122536 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/24/2023

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Ren. Date 08/31/2023
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SOUTHERN KERN UNIFIED
SCHOOL DISTRICT

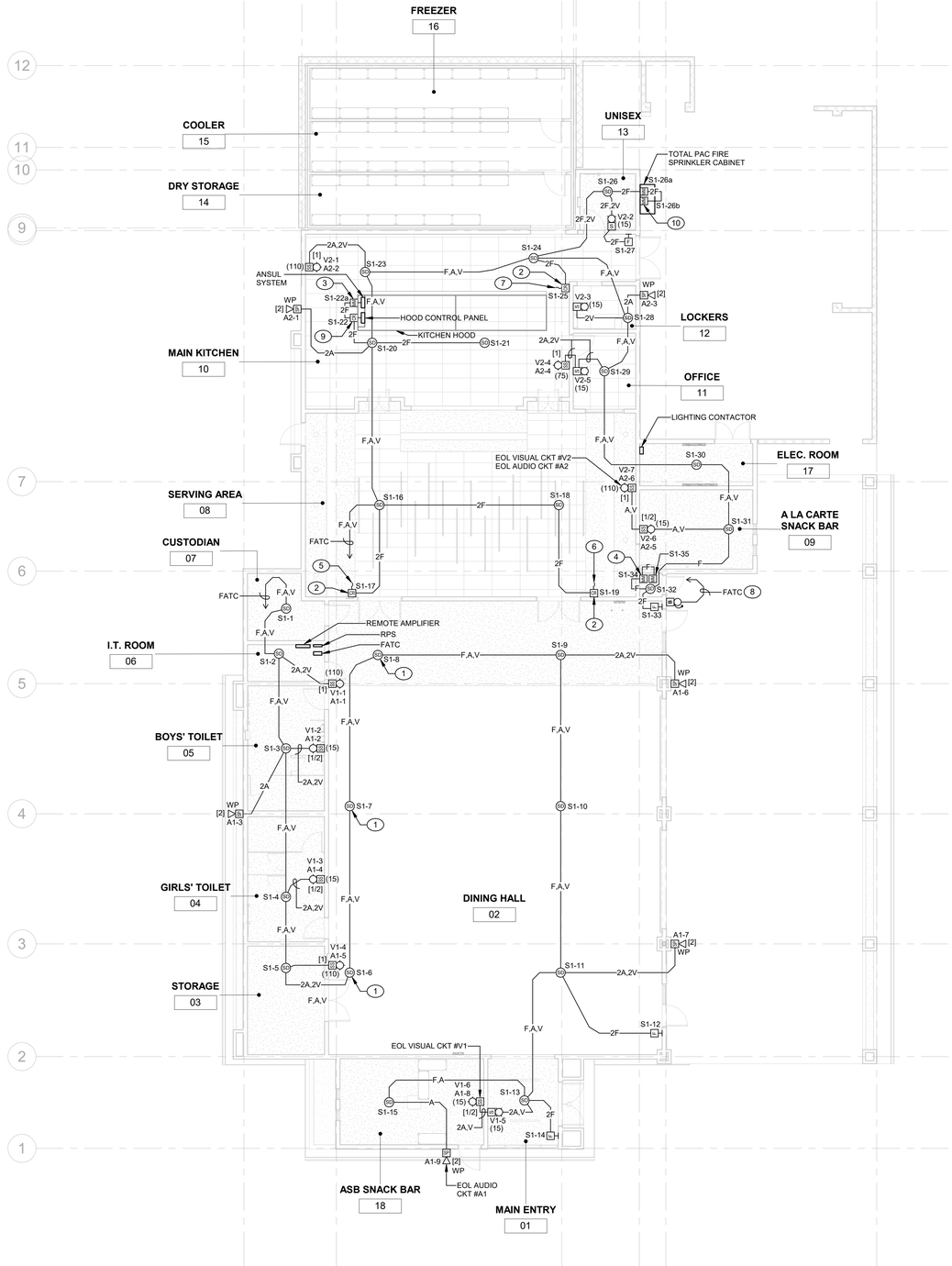
ROSAMOND HIGH EARLY COLLEGE CAMPUS

2925 ROSAMOND BLVD.
ROSAMOND, CA 93560

Drawing Title

FIRE ALARM SITE PLAN

Job No. 2990.000
Date 01.30.2023
Sheet No. **FA201**



1 FIRE ALARM PLAN
1/8" = 1'-0"

KEYED NOTES

1. MOUNT SMOKE DETECTOR WITHIN 3 FT. TO PEAK OF CEILING.
2. 4S-BOX WITH CONTROL RELAY MODULE, MOUNT HIGH ON WALL FOR ROOF UNIT SHUT-OFF.
3. 4S-BOX WITH MONITOR MODULE, CONNECT WIRES TO MICRO SWITCH ANSUL FIRE PROTECTION SYSTEM.
4. 4S-BOX WITH MONITOR MODULE, CONNECT WIRES TO SPRINKLER RISER FLOW AND TAMPER SWITCHES.
5. 3/4"C, 2#12 CONNECT IN SERIES TO AC-1 CONTROL CIRCUIT FOR AUTOMATIC SHUT-OFF.
6. 3/4"C, 2#12 CONNECT IN SERIES TO AC-2 CONTROL CIRCUIT FOR AUTOMATIC SHUT-OFF.
7. 3/4"C, 2#12 CONNECT IN SERIES TO RTU-1 CONTROL CIRCUIT FOR AUTOMATIC SHUT-OFF.
8. 3/4"C, 2#12 CONNECT TO RPS (PSE-6) VIA SPRINKLER FLOW SWITCH.
9. 4S-BOX WITH CONTROL RELAY MODULE. CONNECT WIRES TO HOOD CONTROL PANEL.
10. 4S-BOX WITH MONITOR MODULE, MOUNT INSIDE CABINET. CONNECT WIRES TO SPRINKLER DRY SYSTEM FLOW AND TAMPER SWITCHES.

GENERAL NOTE:

ATTIC SPACES ARE FULLY SPRINKLERED.

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Ren. Date 08/31/2023
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Revisions

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

2925 ROSAMOND BLVD.
ROSAMOND, CA 93560

Drawing Title

FIRE ALARM PLAN

Job No. 2990.000
Date 01.30.2023
Sheet No. **FA301**

ROSAMOND COMMUNITY SERVICES DISTRICT

3179 35th Street West, Rosamond CA 93560
Tel. 661.256.3411 Fax 661.256.2358
Website: www.rosamondcsd.com

BOARD OF DIRECTORS

Rick Webb
President

Byron Glennan
Vice President

Ben Stewart

Alfred Wallis

Greg Wood

GENERAL MANAGER

Steve A. Perez

April 18, 2022

Joselito Lacson
Flewelling & Moody
1035 West Lancaster Boulevard
Lancaster, CA 93534

Subject: Fire flows near Tropico Middle school and Rosamond High School

In response to your request for information on pipeline pressure and fire flow information, two fire flow tests were conducted. The tests were conducted April 18, 2022 and the results are as follows.

Fire hydrant located on Cobalt Ave. 50 feet East of Slate St.

Static Pressure:	85psi
Residual Pressure:	62psi
Observed Flow:	1000 gpm
Available Flow at 20 PSI:	1752 gpm

Fire hydrant located on Gertrude St. 60 feet East of Echo Dr.

Static Pressure:	105psi
Residual Pressure:	95psi
Observed Flow:	1050 gpm
Available Flow at 20 PSI:	3334 gpm

Residual pressures were taken from the next hydrant downstream of the hydrant being tested.

If you have any questions, please feel free to contact Rosamond Community Services District, at (661) 256-3411.

Sincerely,

Brach Smith
Public Works Manager

FIRE SPRINKLER MATERIAL SCHEDULE

SPECIFICATION SECTION	DESCRIPTION	MODEL NO.	CSFM LISTING	MANUFACTURER
210500				
2.2	BURIED PIPE			
	IN-BUILDING RISER	SERIES IBR	N/A	AMES
2.3	ABOVE GROUND PIPING			
	PIPE:			
	2½"-6" SCHED. 10	N/A	N/A	ALLIED
	1" - 2" SCHED. 40	N/A	N/A	ALLIED
	FITTINGS:			
	CAST IRON THREADED	N/A	N/A	ANVIL
	GROOVED	VGS	N/A	GRUVLOK
2.4	PIPE HANGERS AND SUPPORTS			
	----	----	----	ANVIL
2.6	GLOBE OR ANGLE VALVES			
	GLOBE VALVE	125SUL	N/A	UNITED BRASS
	ANGLE VALVE	126SUL	N/A	UNITED BRASS
2.8	BUTTERFLY VALVES			
	CHECK VALVES			
2.9	4" GROOVED CHECK VALVE	M-2	N/A	VIKING
211300				
1.5	STRUCTURAL DESIGN AND SEISMIC REQUIREMENTS			
		----	----	ANVIL
2.2	SPRINKLERS			
	MICROFAST QR SSU	VK300	N/A	VIKING
	MICROFAST QR SSP	VK302	N/A	VIKING
2.3	PIPING SPECIALTIES			
	10" ELECTRIC BELL	PBA-AC	7135-0328:0119	POTTER
	FLOWSWITCH	VSR-F	7770-0328:0001	POTTER

U.S. SEISMIC DESIGN

Ss: 1.173

Cp: .564

PROTECTION AREAS AND MAXIMUM SPACING OF STANDARD PENDENT AND UPRIGHT SPRAY SPRINKLERS

CONSTRUCTION TYPE	OCCUPANCY TYPE	MAXIMUM SPRINKLER SPACING (ft^2)
NONCOMBUSTIBLE OBSTRUCTED CONSTRUCTION	LIGHT HAZARD	225
	ORDINARY HAZARD	130
NONCOMBUSTIBLE UNOBSTRUCTED HYDRAULICALLY CALCULATED	LIGHT HAZARD	225
	ORDINARY HAZARD	130

ANY SUBSTITUTION OF "FLEXIBLE" TYPE PIPING IN LIEU OF "RIGID" PIPE OR ANY CHANGES TO SIZE, MANUFACTURER OR LENGTHS OF "FLEXIBLE" TYPE PIPING REQUIRE RESUBMITTAL OF PIPING PLANS, PRODUCT DATA SHEETS AND HYDRAULIC CALCULATIONS TO DSA FOR REVIEW AND APPROVAL. CONTRACTOR SHALL REIMBURSE SCHOOL DISTRICT FOR COST IF ADDITIONAL PLAN CHECK IS REQUIRED.

ANY CHANGES TO THE FIRE SPRINKLER SUPPORT, INCLUDING THE ADDITION OF SWAY BRACING, TO THE APPROVED DSA CONSTRUCTION SET WILL RESULT IN A CHANGE TO THE CONSTRUCTION DOCUMENTS (CCD) AND WILL NEED TO FOLLOW DSA PROCEDURES FOR CCD. CONTRACTOR SHALL REIMBURSE SCHOOL DISTRICT FOR COST IF ADDITIONAL PLAN CHECK IS REQUIRED.

FIRE SPRINKLER LEGEND

SYMBOL	DESCRIPTION
1 / FP1.1	DETAIL DESIGNATION DETAIL NUMBER SHEET NO. WHERE SHOWN
	HYDRAULIC CALCULATION REFERENCE NODE
	EARTHQUAKE BRACE
	FIRE SPRINKLER RISER
	GROOVED COUPLING
	HANGER DESIGNATION
	CHANGE IN ELEVATION
	CAP
	PLUG
	VALVE
	FIRE SPRINKLER PIPE
	END OF LINE RESTRAINT

SPRINKLER SYSTEM - GENERAL INFORMATION

FOR	SOUTHERN KERN UNIFIED SCHOOL DISTRICT				
DATE					
FLOW TEST DATA:					
STATIC:	105	PSI	RESID:	95	PSI
FLOW:	1050	GPM	PITOT:	N/A	PSI
	4/18/2022	LOCATION	HYDRANT ON GERTRUDE ST. 60 FT. EAST OF ECHO DR.		
LOCATION OF AUX/LOW POINT DRAINS:					
ORIGINAL MAIN DRAIN TEST RESULTS:					

STATIC	X	PSI	RESID:	X	PSI
HIGH PILED:	-	YES	X	NO	
RACK STORAGE:	-	YES	X	NO	
COMMODITY CLASS					
MAXIMUM STORAGE	XX	FT			
AISLE WIDTH (MIN.)	XX	FT			
ENCAPSULATION:	-	YES	X	NO	
SOLID SHELVING:	-	YES	X	NO	
FLAMMABLE / COMBUSTIBLE LIQUIDS	-	YES	X	NO	
OTHER STORAGE:	-	YES	X	NO	
HAZARDOUS MATERIAL	-	YES	X	NO	
IDLE PALLETS	-	YES	X	NO	
ANTIFREEZE SYSTEMS	-	YES	X	NO	
DRY OR AUX SYS	-	YES	X	NO	
LOCATION					
NAME OF CONTRACTOR OR DESIGNER:			BASKIN MECHANICAL ENGINEERS		
ADDRESS & PHONE NUMBER			175 FULTON STREET FRESNO, CA. 93721 PH 559-237-0376		

BUILDING DATA

PROJECT DESCRIPTION: INSTALL WET PIPE FIRE SPRINKLER SYSTEM IN NEW CAFETERIA BUILDING. WORK TO BEGIN AT CONNECTION, 5'-0" OUTSIDE BUILDING FACE PROVIDED BY CIVIL ENGINEER. SEE SHEET C4.02 FOR CONTINUATION.

OWNER: SOUTHERN KERN UNIFIED SCHOOL DISTRICT

BUILDING DATA/ CODE ANALYSIS

DESCRIPTION	EDUCATIONAL CENTER
OCCUPANCY GROUP	B, A-3, S-1
CONSTRUCTION TYPE	II-B, SPRINKLERED
STORIES	1
HEIGHT	24'-0"
FIRE SPRINKLER SYSTEM	YES
FIRE ALARM	YES
TOTAL BUILDING AREA (sq.ft.)	27,100

FIRE SPRINKLER SHEET INDEX

SHEET NO.	SHEET TITLE
FP0.1	FIRE SPRINKLER COVER SHEET AND LEGENDS
FP0.2	FIRE SPRINKLER NOTES
FP0.3	FIRE SPRINKLER REFERENCE SITE PLAN
FP2.0	FIRE SPRINKLER 1ST FLOOR PIPING PLAN
FP3.0	FIRE SPRINKLER 1ST FLOOR REFLECTED CEILING PLAN
FP4.0	FIRE SPRINKLER DETAILS AND BUILDING CROSS SECTION

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DATE: 03/24/2023

FLEWELLING & MOODY
architecture planning interiors

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C-26053
Ren. Date 08/31/2023
STATE OF CALIFORNIA

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER
MARK JAMES BASKIN
No. M26377
EXP. 09-30-24
MECHANICAL
STATE OF CALIFORNIA

Drawn by

Checked by

Revisions

No.	Date	Description

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT
ROSAMOND HIGH SCHOOL

CAFETERIA BUILDING

2925 ROSAMOND BLVD.
ROSAMOND, CA 93560

FIRE SPRINKLER COVER SHEET AND LEGENDS

Job No.
2990

Date
06-07-22

FP0.1

FIRE SPRINKELR COVER SHEET AND LEGENDS

BASKIN MECHANICAL ENGINEERS
2131 19th St, Suite B
Bakersfield, CA 93301
Tel: (661) 397-2114
Job: 22002
Plt: 03-07-23

OVERHEAD FIRE SPRINKLER SYSTEM NOTES

1. NFPA 13 (2016) SEC. 10.10.2.1 UNDERGROUND MAINS AND LEAD-IN CONNECTIONS TO SYSTEM RISERS SHALL BE COMPLETELY FLUSHED BEFORE CONNECTION IS MADE TO THE OVERHEAD FIRE SPRINKLER PIPING SYSTEM. (WITNESSED BY THE INSPECTOR OF RECORD)

2. NFPA 13 (2016) SEC. 9.3.4.2 CLEARANCE SHALL BE PROVIDED AROUND ALL PIPING EXTENDING THROUGH WALLS, FLOORS, PLATFORMS AND FOUNDATIONS INCLUDING DRAINS SUCH THAT THE DIAMETER OF THE HOLES IS 2 INCHES LARGER THAN THE PIPE FOR 1 INCH TO 3 ½ INCH NOMINAL AND 4 INCHES LARGER THAN THE PIPE FOR PIPE 4 INCH NOMINAL AND LARGER.

3. NFPA 13 (2016) SEC. 25.2.1 ALL INTERIOR PIPING AND APPURTENANCES SUBJECTED TO SYSTEM WORKING PRESSURE SHALL BE HYDROSTATICALLY TESTED AT 200 PSI AND SHALL MAINTAIN THAT PRESSURE WITHOUT LOSS FOR 2 HOURS. (WITNESSED BY THE DSA PROJECT INSPECTOR)

4. NFPA 13 (2016) SEC. 6.2.9.5 PROVIDE SPARE SPRINKLER HEAD CABINET, WRENCH, AND NO FEWER THAN A TOTAL OF 6 SPARE SPRINKLER HEADS MATCHING THE TYPES AND TEMPERATURE RATINGS IN EACH PROTECTED BUILDING FOR SYSTEMS WITH LESS THAN 300 SPRINKLERS AND 12 SPARE SPRINKLERS FOR SYSTEMS WITH 300-1000 SPRINKLERS.

5. NFPA 13 (2016) SEC. 9.3.6 PROVIDE RESTRAINT OF BRANCH LINES BY USING ONE OF THE FOLLOWING:
   A. LISTED SWAY BRACE ASSEMBLY
   B. WRAPAROUND U-HOOK SATISFYING THE REQUIREMENTS OF 6-4.5.3, EXCEPTION NO. 3
   C. NO. 12, 440-LB WIRE INSTALLED AT LEAST 45 DEGREES FROM THE VERTICAL PLANE AND ANCHORED ON BOTH SIDE OF THE PIPE.
   D. HANGER NO LESS THAN 45 DEGREES FROM VERTICAL INSTALLED WITHIN 6 INCHES OF THE VERTICAL HANGER ARRANGED FOR RESTRAINT AGAINST UPWARD MOVEMENT, PROVIDED IT IS UTILIZED SUCH THAT L/R DOES NOT EXCEED 300, WHERE THE ROD SHALL EXTEND TO THE PIPE OR HAVE A SURGE CLIP INSTALLED.
   E. NFPA 13 (2016) SEC. 9.3.6.3: THE END SPRINKLER ON EACH LINE SHALL BE RESTRAINED AGAINST EXCESSIVE VERTICAL AND LATERAL MOVEMENT..

6. NFPA 72 (2016) SEC. 5-10.2 SPRINKLER FLOW SWITCHES SHALL BE TESTED BY IOR TO CONFIRM THAT WHEN THE INSPECTORS' TEST VALVE IS ACTIVATED AND ALARM WILL SOUND IN NO LESS THAN 20 SECONDS AND NOT MORE THAN 90 SECONDS.

7. CBC (2019) SEC. 903.4.1 MAIN FIRE ALARM PANEL MONITORING AND WATER FLOW ALARM AND TROUBLE SIGNALS SHALL BE DISTINCTLY DIFFERENT AND SHALL BE AUTOMATICALLY TRANSMITTED TO AN APPROVED CENTRAL STATION MONITORING COMPANY.

8. NFPA 13 (2016) SEC. 6.9 FLOW SWITCHES SHALL BE CONNECTED TO A 10 INCH OUTSIDE ALARM BELL AT EACH RISER. AN APPROVED IDENTIFICATION SIGN SHALL BE PROVIDED FOR THE OUTSIDE ALARM BELL. THE SIGN IS TO READ "SPRINKLER FIRE ALARM-WHEN BELL RINGS CALL 911/FIRE DEPARTMENT"

9. NFPA 13 (2016) SEC. 25.5 HYDRAULIC CALCULATION DESIGN DATA PLACARD IS TO BE ATTACHED TO THE FIRE SPRINKLER SYSTEM RISER.

10. NFPA 13 (2016) SEC. 25.1 THE FIRE SPRINKLER CONTRACTOR (C-16) SHALL COMPLETE AND SIGN THE CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR THE OVERHEAD FIRE SPRINKLER SYSTEM USING THE FORM IN FIGURE 24.1. THIS FORM SHALL BE GIVEN TO THE DSA PROJECT INSPECTOR WHO WILL TURN IT IN FOR DSA RECORDS.

11. NFPA 13 (2016) SEC. 25.2.3.4 THE MAIN DRAIN VALVE SHALL BE OPENED AND REMAIN OPEN UNTIL THE SYSTEM PRESSURE STABILIZES. THE STATIC AND RESIDUAL PRESSURES SHALL BE RECORDED ON THE CONTRACTOR'S MATERIAL AND TEST CERTIFICATE. THE TEST IS TO BE WITNESSED BY THE INSPECTOR OF RECORD - IOR.

12. SPRINKLER UPRIGHTS AND DROPS OVER 4 FEET LONG SHALL BE RESTRAINED TO PREVENT DAMAGE TO PIPING OR TO AND FROM ADJACENT BUILDING ELEMENTS.

13. TITLE 19 ARTICLE 906(A) A LABEL OF THE SELF-ADHESIVE TYPE SHALL BE PLACED ON THE FIRE DEPARTMENT CONNECTION OR ON THE RISER FOR FIRE SPRINKLER SYSTEM WITH THE DATE OF SERVICE AND/OR DATE INSTALLATION WAS PERFORMED AND LICENSE NUMBER OF PERSON PERFORMING SERVICE WORK.

14. NFPA 13 (2016) sec. 8.17.2.4.7: SIGNAGE SHALL BE PROVIDED AS REQUIRED, INCLUDING "RISER ROOM IDENTIFICATION".

DSA AFSS DESIGN CRITERIA

1. INSTALLATION OF SPRINKLER SYSTEM SHALL NOT BE STARTED UNTIL DRAWINGS, SPECIFICATIONS, CALCULATIONS, ETC. HAVE BEEN APPROVED BY DSA.
2. EDUCATIONAL OCCUPANCY AFSS DESIGN CRITERIA:
   - LIGHT HAZARD: CLASSROOMS; OFFICES; *AUDITORIUMS; LIBRARY READING AREA WITHOUT HIGH STACKS, MULTI-PURPOSE ROOMS
   - ORDINARY HAZARD GROUP 1: KITCHENS; LARGE STORAGE AREAS; STAGES (AS DEFINED IN 2019 CBC 410.2)
   - ORDINARY HAZARD GROUP 2: SCIENCE LABS; VOCATIONAL SHOPS; STAGES 1,000 SQ. FT. IN AREA OR >50 FT. IN HEIGHT, LIBRARY READING AREAS WITH HIGH STACKS

FIRE PROTECTION NOTES

1. ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN COMPLIANCE WITH THE FOLLOWING CODES AS AMENDED AND ADOPTED BY THE INSPECTION AUTHORITY. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES OR OTHERS APPLICABLE TO THIS PROJECT.
   A. CALIFORNIA FIRE CODE, 2019
   B. NFPA-13, 2016
   C. KERN COUNTY FIRE DEPARTMENT REQUIREMENTS
   D. CALIFORNIA BUILDING CODE - 2019
   E. CALIFORNIA MECHANICAL CODE - 2019
   F. CALIFORNIA PLUMBING CODE - 2019
   G. CALIFORNIA ELECTRICAL CODE - 2019
   H. STATE OF CALIFORNIA ENERGY CONSERVATION REGULATIONS, TITLE 24 - 2019
   I. NATIONAL FIRE PROTECTION ASSOCIATION
   J. OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA)
   K. SEISMIC RESTRAINT: ALL HUNG PIPING SHALL CONFORM TO NFPA 13, SECTION 9.3.
   L. LATERAL BRACING MAY BE ELIMINATED IF PIPING 2-1/2" AND LARGER IS SUSPENDED BY INDIVIDUAL HANGERS 6" OR LESS IN LENGTH FROM THE TOP OF PIPE TO THE BOTTOM OF THE ATTACHMENT TO STRUCTURE.
   M. NO TRAPEZE ASSEMBLIES SHALL BE USED TO SUPPORT PIPING.
   N. WHERE LATERAL RESTRAINTS ARE OMITTED, PIPING SHALL BE INSTALLED SUCH THAT LATERAL MOTION OF THE PIPING WILL NOT CAUSE DAMAGING IMPACT WITH OTHER SYSTEMS OR STRUCTURAL MEMBERS, OR LOSS OF VERTICAL SUPPORT.

2. THE STRUCTURAL ENGINEER OF RECORD SHALL BE RESPONSIBLE TO VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACING LOADS.

3. THE CONTRACTOR SHALL SURVEY EXISTING FIELD CONDITIONS PRIOR TO BIDDING. IF AWARDED THE CONTRACT, THE CONTRACTOR SHALL SURVEY EXISTING FIELD CONDITIONS IN DETAIL AND COORDINATE THE WORK WITH NEW BUILDING SYSTEMS.

4. ANY DAMAGE TO NEW BUILDING ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL SYSTEMS THAT OCCURS DURING THE WORK SHALL BE RESTORED TO THE ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE. IF LANDSCAPED AREAS INCLUDING NATURAL SPACES MUST BE USED FOR BUILDING ACCESS, THE LANDSCAPING SHALL BE RETURNED TO ITS ORIGINAL CONDITION. THE CONTRACTOR SHALL INCLUDE COSTS IN THE BID FOR THIS WORK IF THIS APPROACH IS USED. THE OWNER WILL NOT PAY ANY ADDITIONAL COSTS TO COVER DAMAGE TO THE BUILDING SYSTEMS, LANDSCAPING OR DRIVE AREAS.

5. COORDINATE THE FOLLOWING WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS AND ELEMENTS AS INSTALLED, INCLUDING EXISTING BUILDING SYSTEMS:
   A. EXACT LOCATION OF ALL EQUIPMENT.
   B. ALL PENETRATIONS THRU ROOF, WALLS AND FLOORS.
   C. EXACT SIZE AND ROUTING OF PIPING.

6. DRAWINGS INDICATE DIAGRAMMATICALLY THE ARRANGEMENT OF PRINCIPAL APPARATUS, PIPING, AND OTHER MATERIAL. FOLLOW DRAWING AS CLOSELY AS POSSIBLE, IN ORDER TO ACHIEVE A NEAT ARRANGEMENT OF PIPING AND EQUIPMENT WHILE STILL OVERCOMING OBSTRUCTIONS.

7. INSTALLATION OF THE SPRINKLER SYSTEM SHALL NOT BE STARTED UNTIL COMPLETE PLANS AND SPECIFICATIONS, INCLUDING WATER SUPPLY INFORMATION, HAVE BEEN APPROVED BY DSA. AT VARIOUS STAGES AND UPON COMPLETION, THE SYSTEM MUST BE TESTED IN THE PRESENCE OF THE AUTHORITY HAVING JURISDICTION (IOR).

8. THE LOCATION OF FIRE SPRINKLER HEADS SHALL BE COORDINATED WITH THE NEW CEILING LAYOUTS AND ALL OTHER TRADES FOR COMPLETE FIRE PROTECTION COVERAGE OF ALL AREAS. PROVIDE DETAILED PLANS FOR APPROVAL PRIOR TO INSTALLATION.

9. HEADS SHALL BE SYMMETRICALLY LOCATED IN CENTER OF CEILING PANELS. COORDINATE LAYOUT WITH CEILING OR SOFFIT LIGHT FIXTURES, AND HVAC DIFFUSERS, RETURNS, ETC. PROVIDE PENDENT AND/OR UPRIGHT TYPE SPRINKLER HEAD WHERE REQUIRED.

10. WORKMANSHIP:
    ALL WORK SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER ACCORDING TO THE BEST TRADE PRACTICE BY THOSE SKILLED IN THE PARTICULAR TRADE. PIPES, EQUIPMENT, ETC., TO BE INSTALLED LEVEL, SQUARE OR CENTERED, ETC., TO GIVE A NEAT AND PLEASING APPEARANCE. ALL EQUIPMENT IS TO BE INSTALLED STRICTLY PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE ALL WORK WITH OTHER TRADES.

11. THE ANNULAR SPACE BETWEEN PIPE SLEEVES AND THE PIPE THROUGH ALL RATED WALLS AND FLOORS SHALL BE FIRESTOPPED. FIRESTOPPING OF ALL PIPE PENETRATIONS SHALL COMPLY WITH U.L. REQUIREMENTS. MANUFACTURER PREAPPROVED UL PENETRATION FOR PIPE MATERIAL AND SURFACE PENETRATED SHALL BE USED. PENETRATIONS SHALL BE 3M, PROSET, OR APPROVED EQUAL. SUBMIT SHOP DRAWINGS.

12. BY OTHERS:
    A. ELECTRICAL CONTRACTOR: ALL POWER AND ALARM WIRING, CONDUITS, DISCONNECTS, AND FINAL CONNECTIONS. NO FIELD SUPPLIED ELECTRICAL DEVICE SHALL BE MOUNTED ON PIPING AND NO RIGID ELECTRICAL CONNECTIONS SHALL BE MADE.
    B. GENERAL CONTRACTOR: CUTTING, FRAMING, PATCHING, FURRING, AND PAINTING.

15. WARRANTY:
    ALL MATERIALS AND EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL BE GUARANTEED FREE FROM ALL FIRE PROTECTION, ELECTRICAL AND WORKMANSHIP DEFECTS FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO THE PREMISES CAUSED BY LEAKS AND/OR BREAKS IN PIPES AND FIXTURES INSTALLED UNDER THIS CONTRACT.

16. IT IS THE INTENTION OF THE PLANS AND SPECIFICATIONS TO COVER ALL THINGS REQUIRED TO PROVIDE COMPLETE AND OPERATIVE SYSTEMS. THE CONTRACTOR IS TO FURNISH ALL LABOR, MATERIALS, TRANSPORTATION, EQUIPMENT, MISCELLANEOUS SERVICES, ETC., REQUIRED TO ACCOMPLISH THIS RESULT. ANYTHING WHICH MAY BE REASONABLY CONSTRUED AS A NECESSARY PART OF THE INSTALLATION IS TO BE INCLUDED, WHETHER SPECIFICALLY SHOWN OR MENTIONED. THE ENGINEER WILL GIVE ANY INTERPRETATIONS NECESSARY FOR THE CONTRACTOR TO PROPERLY ESTIMATE THE JOB.

17. IT IS THE CONTRACTORS' RESPONSIBILITY TO PROVIDE FABRICATION OR SHOP DRAWINGS. CAD FILES WILL NOT BE PROVIDED

GENERAL NOTES

1. THE SYSTEM DESIGN AND INSTALLATION SHALL COMPLY WITH NFPA 13, 2016 EDITION AND THE DSA REQUIREMENTS.

2. SYSTEM HYDRAULIC DESIGN IS FOR: ALL AREAS ARE LIGHT HAZARD

3. CITY WATER SUPPLY INFORMATION:
   STATIC: 70 PSI RESIDUAL: 46 PSI GPM: 1407

4. ALL PIPE 2" AND SMALLER SHALL BE SCHEDULE 40, BLACK STEEL ANSI/ASTM A135.

5. ALL GROOVED AND WELDED PIPE 2 ½" - 6" SHALL BE SCHEDULE 10, BLACK STEEL ANSI/ASTM A795.

6. THREADED FITTINGS SHALL BE CLASS 125 THREADED CAST IRON ANSI B16.4.

7. ALL THREADED PIPE AND FITTINGS SHALL HAVE THREADS CUT TO ANSI/ASME STANDARD B1.20.1.

8. ALL PIPE WELDING SHALL BE IN COMPLIANCE WITH THE REQUIREMENTS OF AWS D10.9 (STANDARD FOR BUILDING SERVICE PIPING), LEVEL AR-3.

9. ALL PIPE SHALL BE EARTHQUAKE BRACED AS OUTLINED IN NFPA 13, 2016 EDITION, SECTION 9.3, AND AS MODIFIED BY THE 2019 CBC.

10. ALL HANGER COMPONENTS AND INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 13, 2016 EDITION, SECTION 9.1 AND 9.2, AND AS MODIFIED BY THE 2019 CBC.

11. ELECTRICAL WIRING AND ANY PAINTING OF THE PIPE THAT MAY BE REQUIRED SHALL BE BY OTHERS.

12. ALL NEW PIPING IS TO BE HYDROSTATICALLY TESTED TO CODE FOR A PERIOD NOT LESS THAN TWO HOURS.

13. FLOW AND TAMPER SWITCHES ARE TO BE PROVIDED ON THE FIRE SPRINKLER SYSTEM. ALL ELECTRICAL WIRING TO BE PROVIDED "BY ELECTRICAL CONTRACTOR."

14. FIRE SPRINKLER SUPPLY AND STUB OUT SHALL BE INSTALLED AND TESTED PER NFPA 24.

15. MAIN FIRE PANEL, VALVE MONITORING, WATER FLOW ALARM AND TROUBLE SIGNALS SHALL BE DISTINCTLY DIFFERENT AND SHALL BE AUTOMATICALLY TRANSMITTED TO AN APPROVED CENTRAL STATION MONITORING COMPANY.

ANY SUBSTITUTION OF "FLEXIBLE" TYPE PIPING IN LIEU OF "RIGID" PIPE OR ANY CHANGES TO SIZE, MANUFACTURER OR LENGTHS OF "FLEXIBLE" TYPE PIPING REQUIRE RESUBMITTAL OF PIPING PLANS, PRODUCT DATA SHEETS AND HYDRAULIC CALCULATIONS TO DSA FOR REVIEW AND APPROVAL. CONTRACTOR SHALL REIMBURSE SCHOOL DISTRICT FOR COST IF ADDITIONAL PLAN CHECK IS REQUIRED.

ANY CHANGES TO THE FIRE SPRINKLER SUPPORT, INCLUDING THE ADDITION OF SWAY BRACING, TO THE APPROVED DSA CONSTRUCTION SET WILL RESULT IN A CHANGE TO THE CONSTRUCTION DOCUMENTS (CCD) AND WILL NEED TO FOLLOW DSA PROCEDURES FOR CCD. CONTRACTOR SHALL REIMBURSE SCHOOL DISTRICT FOR COST IF ADDITIONAL PLAN CHECK IS REQUIRED.

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

FIRE SPRINKLER NOTES

Job No. 2990

Date 01.30.2023

FP0.2

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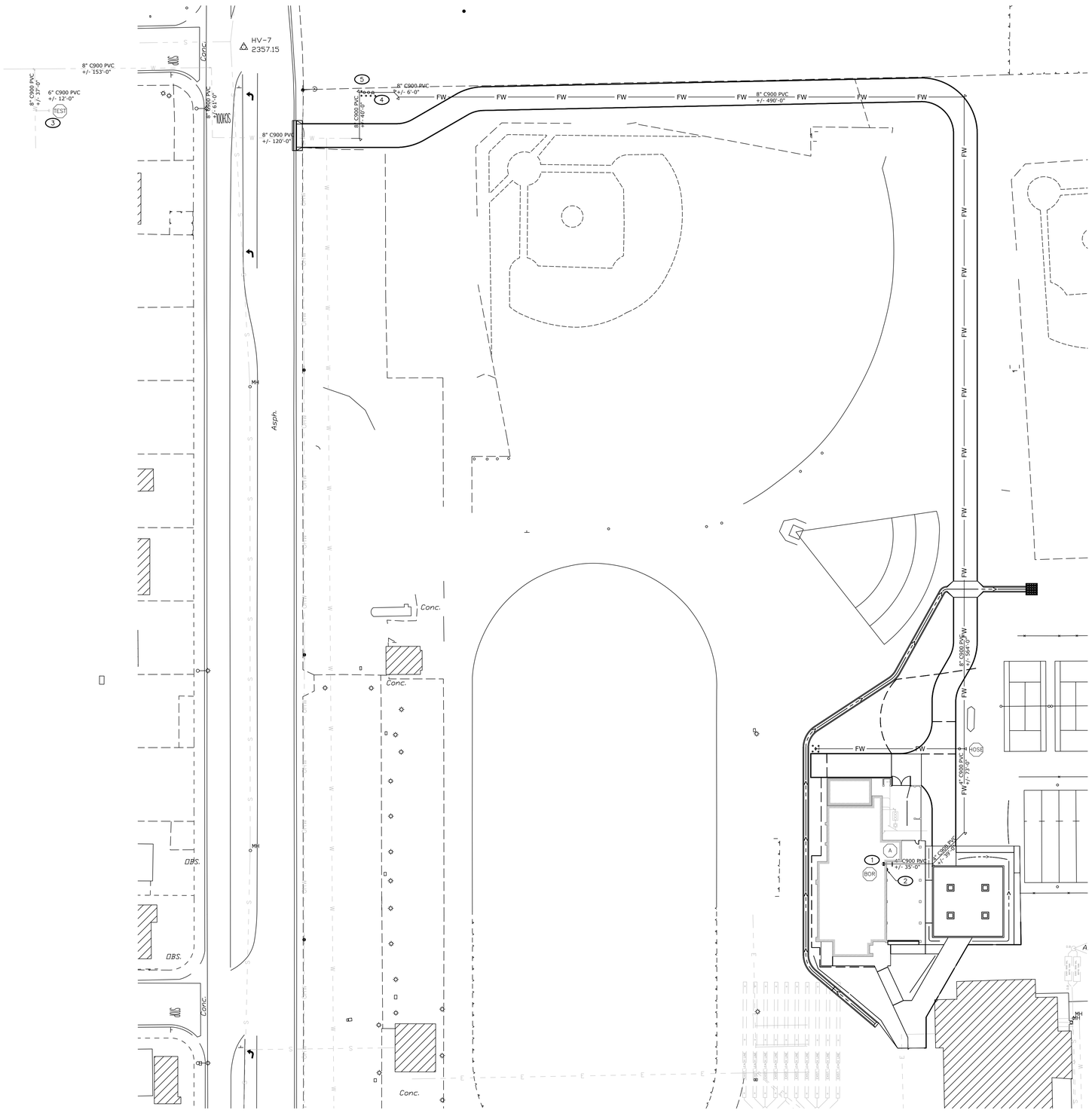
Plt: 01-03-23



KEYNOTES

1. FIRE SPRINKLER RISER
2. 10" ELECTRIC BELL
3. FLOW TEST HYDRANT
4. FIRE DEPARTMENT CONNECTION
5. AMES 3000 SS BACKFLOW PREVENTER

FIRE SPRINKLER HYDRAULIC CALCULATION SITE PLAN (FOR HYDRAULIC REFERENCE ONLY)

1" = 40'-0"

SCALE: 1"=40'
0 40 80 120

WORKING NORTH

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

FIRE SPRINKLER REFERENCE SITE PLAN (FOR HYDRAULIC REFERENCE ONLY)

Job No. 2990

Date 01.30.2023

FP0.3

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Tel: (661) 397-2114
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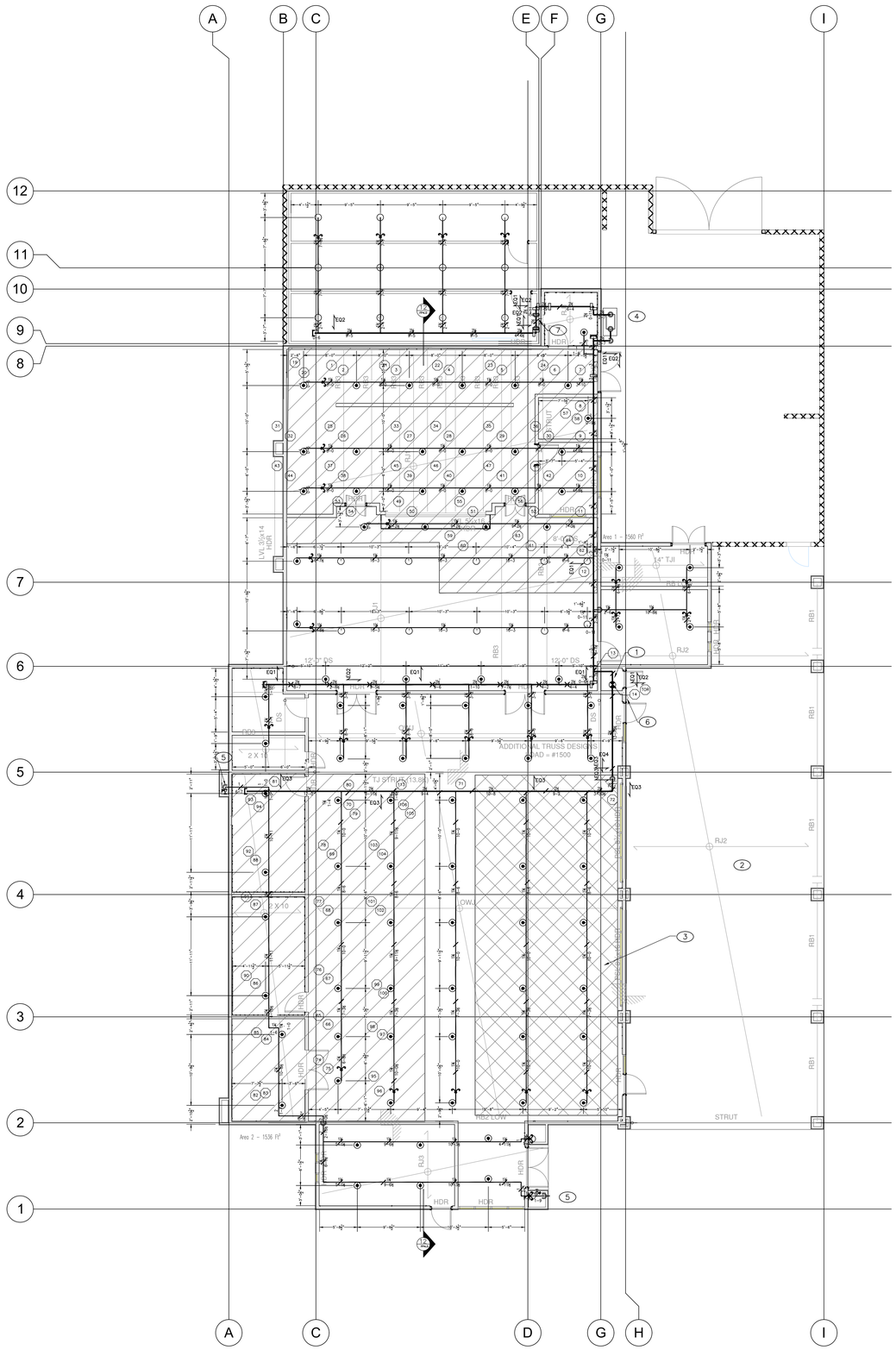
Plt: 01-03-23



FIRE SPRINKLER PIPING PLAN

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

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

HYDRAULIC - SYSTEM

This building is protected by a Hydraulically Designed Automatic Sprinkler System.

Location	Area #1 - Kitchen	
No. of Sprinklers	26	
Basis Of Design		
1. DENSITY	0.15	GPM/SQ. FT.
2. DESIGNED AREA OF DISCHARGE	1520	SQ. FT.
System Demand		
1. GPM DISCHARGE	534.71	GPM
2. RESIDUAL PRESSURE AT THE BASE OF THE RISER	44.99	PSI
Building Information		
1. OCCUPANCY CLASSIFICATION	Ordinary Hazard Group 1	
2. COMMODITY CLASSIFICATION	N/A	
3. MAXIMUM STORAGE HEIGHT	N/A	

HYDRAULIC - SYSTEM

This building is protected by a Hydraulically Designed Automatic Sprinkler System.

Location	Area #2 - Dining Hall	
No. of Sprinklers	15	
Basis Of Design		
1. DENSITY	0.1	GPM/SQ. FT.
2. DESIGNED AREA OF DISCHARGE	1536	SQ. FT.
System Demand		
1. GPM DISCHARGE	313.43	GPM
2. RESIDUAL PRESSURE AT THE BASE OF THE RISER	55.17	PSI
Building Information		
1. OCCUPANCY CLASSIFICATION	LIGHT	
2. COMMODITY CLASSIFICATION	N/A	
3. MAXIMUM STORAGE HEIGHT	N/A	

KEY NOTES

1. FIRE SPRINKLER RISER
2. NONCOMBUSTIBLE EXTERIOR CANOPY-NO A.S. (COMBUSTIBLE CONSTRUCTION COVERED WITH NONCOMBUSTIBLE MATERIAL. CONCEALED SPACE LESS THAN 6')
3. ZONE OF INFLUENCE
4. TOTALPAC X DRY SYSTEM (4")
5. AUXILIARY DRAIN VALVE WITH ACCESS PANEL
6. 10" ELECTRIC BELL (SEE SHEET FA301 FOR FIRE BELL LOCATION)
7. METRAFLEX FIRE LOOP - 8"

GENERAL NOTES

1. CONTRACTOR IS TO COORDINATE WITH ALL OTHER DISCIPLINES. REFER TO ARCHITECTURAL, MECHANICAL AND PLUMBING SHEETS, FIRE PROTECTION SPECIFICATIONS, AS WELL AS OTHER PORTIONS OF THE CONTRACT DOCUMENTS FOR ADDITIONAL COORDINATION REQUIREMENTS.
2. THE LAYOUT REQUIREMENTS DESCRIBED IN THESE PLANS SHALL BE ADHERED TO AS CLOSELY AS POSSIBLE BUT SHALL NOT SUPERSEDED CODE CONSTRAINTS AND/OR REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION (AHJ'S). WHERE CODE OR AHJ REQUIREMENTS SUPERSEDE ITEMS SHOWN ON THIS PLAN, CONTRACTOR SHALL INCLUDE ALL ASSOCIATED PROVISIONS IN THE BID, AND SHALL MAKE THEM AT NO ADDITIONAL COST TO OWNER. PROPOSED DEVIATIONS FROM THIS PLAN SHALL BE SUBJECT TO ENGINEER OF RECORD REVIEW AND APPROVAL PRIOR TO IMPLEMENTATION.
3. ALL AREAS OF THE BUILDING NOT COVERED BY NOTES HEREIN SHALL BE FULLY SPRINKLERED IN ACCORDANCE WITH SPECIFICATIONS, NFPA 13, 2016 ED., KERN COUNTY FIRE DEPARTMENT REQUIREMENTS, DSA FIRE PROTECTION DESIGN STANDARDS AND CODE REQUIREMENTS.
4. WHERE PLAN INDICATES EXPOSED FIRE SPRINKLER PIPING DIRECTION OF LAYOUT, ASSOCIATED CONNECTED FIRE SPRINKLER PIPING RUNNING IN PERPENDICULAR DIRECTIONS SHALL BE INSTALLED ONLY IN CONCEALED LOCATIONS UNLESS INDICATED OTHERWISE.
5. EXPOSED FIRE SPRINKLER SYSTEM PIPING SHALL BE RUN STRAIGHT AND TIGHT TO UNDERSIDE OF STRUCTURAL MEMBERS.
6. FOR HANGER DETAILS, SEE SHEET FP-501.
7. UNO, ALL HANGERS ARE LESS THAN 6" FROM TOP OF PIPE TO POINT OF CONNECTION TO STRUCTURE. NO BRANCH LINE RESTRAINT IS REQUIRED.
8. FOR FIRE SPRINKLER LEGENDS AND SYMBOLS SEE SHEET FP-001.
9. ALL PENDENT SPRINKLERS IN MULTI-PURPOSE ROOM TO HAVE HEAD GUARDS.

FIRE SPRINKLER LEGEND

SYM	QTY	TYPE	FINISH	TEMP	K	NPT	SIN#	MFG	MODEL#	ESCUTCHEON
●	99	QR PEND	WHITE	155°	5.6	1/2"	VK3021	VIKING	MICROFAST	SEMI RECESS
◉	91	QR PEND/SSU	WHITE/ BRASS	155°/ 200°	5.6	1/2"	VK3021	VIKING	MICROFAST	SEMI RECESS/NA
○	106	QR SSU	BRASS	200°	5.6	1/2"	VK3001	VIKING	MICROFAST	N/A
TOTAL THIS SHEET	205									

FIRE SPRINKLER INFORMATION IS FOR DSA REVIEW ONLY. INSTALLING CONTRACTOR IS RESPONSIBLE FOR VERIFYING ACCURATE SPRINKLER LAYOUT AND QUANTITIES. NO PRICING ADJUSTMENT WILL BE ALLOWED SPRINKLER HEADS ADDED BY CONTRACTOR.

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT
ROSAMOND HIGH SCHOOL

CAFETERIA BUILDING

2925 ROSAMOND BLVD.
ROSAMOND, CA 93560

FIRE SPRINKLER PIPING PLAN

Job No.
2990

Date
06-07-22

FP2.0

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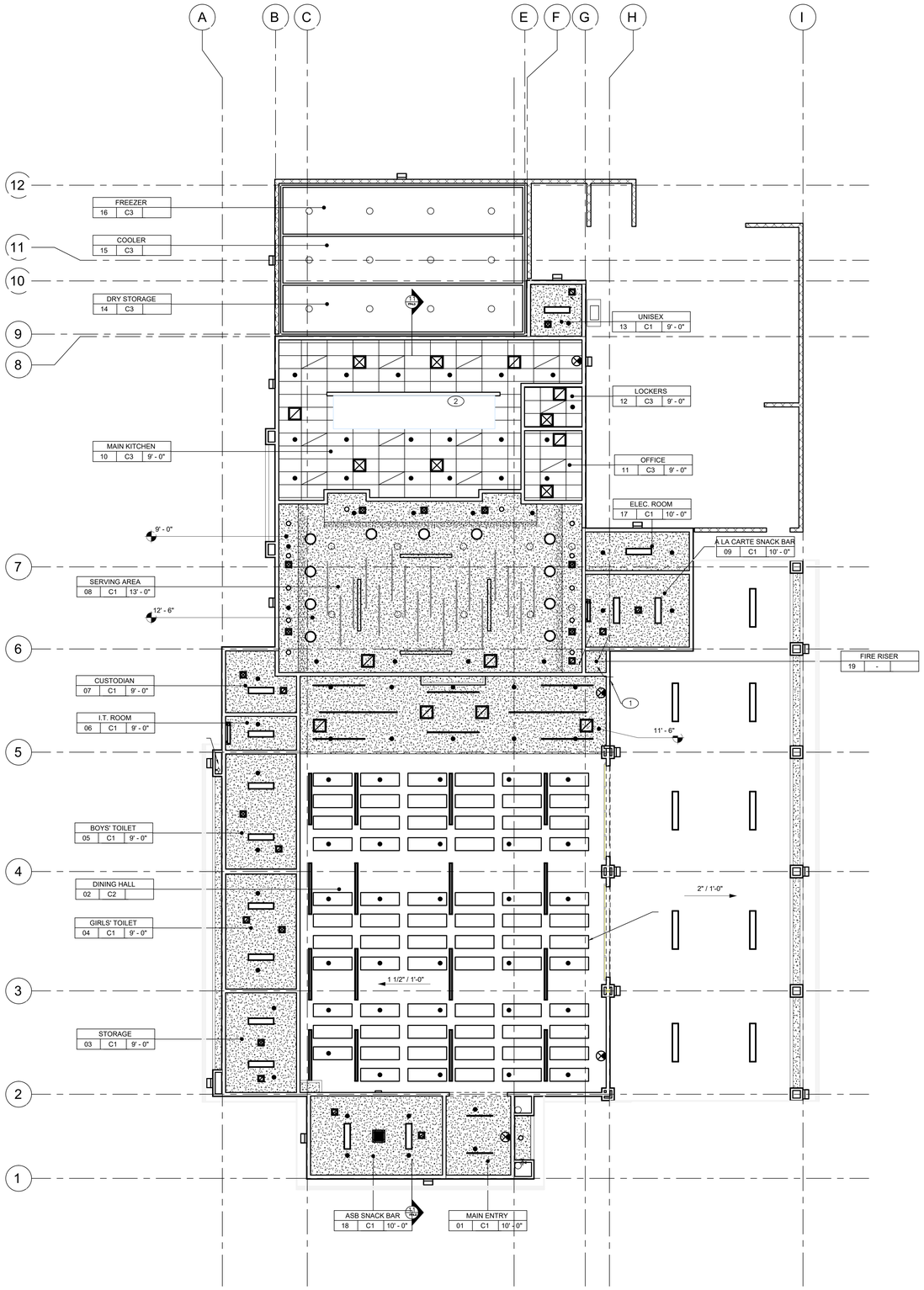
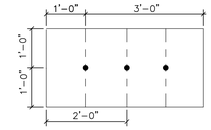


FIRE SPRINKLER REFLECTED CEILING PLAN

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

KEY NOTES

1. NONCOMBUSTIBLE EXTERIOR CANOPY-NO A.S. (COMBUSTIBLE CONSTRUCTION COVERED WITH NONCOMBUSTIBLE MATERIAL. CONCEALED SPACE LESS THAN 6')
2. SPRINKLERS ARE TO BE IN CENTERLINE OF CEILING TILE OR LIGHTING PLAN (TYPICAL)



FIRE SPRINKLER LEGEND

SYM	QTY	TYPE	FINISH	TEMP	K	NPT	SIN#	MFG	MODEL#	ESCUTCHEON
●	99	QR PEND	WHITE	155°	5.6	1/2"	VK3021	VIKING	MICROFAST	SEMI RECESS
○	25	QR SSU	BRASS	200°	5.6	1/2"	VK3001	VIKING	MICROFAST	N/A
TOTAL THIS SHEET	124									

FIRE SPRINKLER INFORMATION IS FOR DSA REVIEW ONLY. INSTALLING CONTRACTOR IS RESPONSIBLE FOR VERIFYING ACCURATE SPRINKLER LAYOUT AND QUANTITIES, NO PRICING ADJUSTMENT WILL BE ALLOWED SPRINKLER HEADS ADDED BY CONTRACTOR.

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

FIRE SPRINKLER REFLECTED CEILING PLAN

Job No. 2990

Date 01.30.2023

FP3.0

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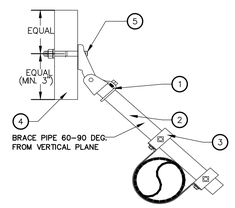
Tel: (661) 397-2114
Job: 22002
Plt: 01-03-23

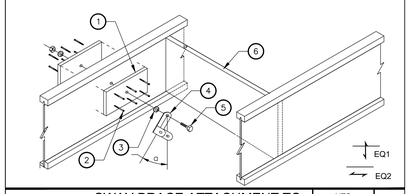
1. ANVIL FIG. AF771 SWIVEL SWAY BRACE ATTACHMENT
2. BRACE PIPE - 1" SCH. 40 (7'-0" MAX. LENGTH)
3. ANVIL FIG. AF033 BRACE CLAMP
4. ROOF JOIST 2X MINIMUM
5. 3/4" THROUGH BOLT W/ NUT & WASHER



LATERAL SWAY BRACE AT WOOD JOIST

NTS — EQ3 — 12

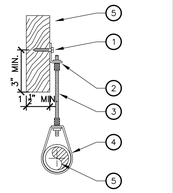
1. 2"x6"x12" FILLER BLOCK EACH SIDE OF I-JOIST WEB UNDER TOP FLANGE
2. NO. 8x2½" LONG (MIN.) WOOD SCREW (6 EACH SIDE)
3. WASHER
4. SWIVEL SWAY BRACE FITTING
5. 1/2" THROUGH BOLT
6. 1 ½" X FULL DEPTH LSL BLOCKING BETWEEN I-JOIST



SWAY BRACE ATTACHMENT TO I JOIST

NTS — 8

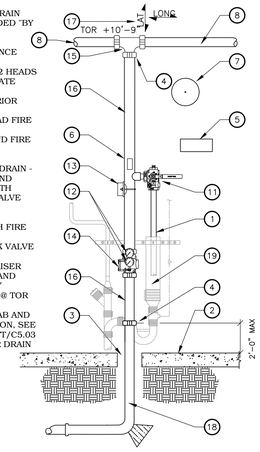
1. $\frac{3}{8}$" X 2" LAG SCREW FOR PIPE SIZES UP TO 2"
   $\frac{1}{2}$" X 3 LAG SCREW FOR 3" & 4" MAIN
   HOLES NOT TO BE PRE-DRILLED
2. ANVIL FIG. 551 THREADED SIDE BEAM BRACKET
3. ALL THREAD ROD (SEE 18/FP-313 FOR ROD SIZE)
4. ANVIL FIG. 69 ADJUSTABLE RING HANGER
5. STRUCTURAL MEMBER
6. MAXIMUM PIPE SIZE - 4"



HANGER TO WOOD JOIST

NTS — 5

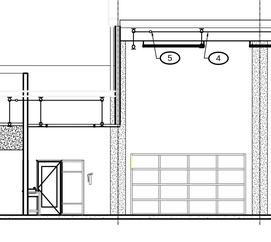
1. 2 MAIN DRAIN - TO DRAIN INTO OUTLET PROVIDED "BY OTHERS"
2. FINISHED FLOOR
3. 2" ANNULAR CLEARANCE
4. FLEXIBLE COUPLING
5. SPARE HEAD BOX- 12 HEADS
6. HYDRAULIC CALC PLATE
7. 10" ELECTRIC BELL - MOUNTED ON EXTERIOR WALL
8. SUPPLY TO OVERHEAD FIRE SPRINKLER SYSTEM
9. FROM UNDERGROUND FIRE LINE
10. NOT USED
11. AGF #1011A TEST anDRAIN - INSPECTORS TEST AND DRAIN ASSEMBLY WITH PRESSURE RELIEF VALVE
12. 300# GAUGE
13. FLOWSWITCH - INTERCONNECT WITH FIRE ALARM (BY OTHERS)
14. VIKING RISER CHECK VALVE
15. GROOVED 90 ELL
16. 4" FIRE SPRINKLER RISER
17. EQ2. LATERAL AND LONGITUDINAL SWAY BRACE ASSEMBLIES @ TOR (SEE 9.10/FP4.0)
18. FOR PIPE BELOW SLAB AND BUILDING FOUNDATION, SEE DETAIL SS/C5.03 & TT/C5.03
19. SEE FIRE SPRINKLER DRAIN DETAIL D/P2.1



FIRE SPRINKLER RISER DETAIL

NTS — 1

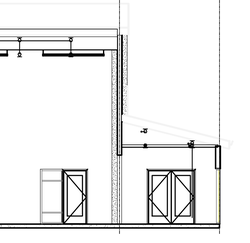
1. ANVIL FIG. AF771 SWIVEL SWAY BRACE ATTACHMENT
2. BRACE PIPE - 1" SCH. 40 (7'-0" MAX. LENGTH)
3. ANVIL FIG. AF411 LONGITUDINAL SEISMIC BRACE CLAMP
4. ROOF JOIST - 2X MINIMUM
5. 3/4" THROUGH BOLT W/ NUT AND WASHER
6. ANVIL FIG. AF078 BRACE ATTACHMENT



LONGITUDINAL SWAY BRACE AT WOOD JOIST

NTS — EQ4 — 13

1. ANVIL FIG. AF771 SWIVEL SWAY BRACE ATTACHMENT
2. BRACE PIPE - 1" SCH. 40
3. ANVIL FIG. AF033 BRACE CLAMP



LATERAL SWAY BRACE AT I JOIST

NTS — EQ1 — 9

1. ANVIL #610 CEILING PLATE
2. 3/8" ALL THREADED ROD
3. ANVIL FIG. 69 ADJUSTIBLE RING HANGER
4. 2-1/4" X 1 $\frac{1}{2}$" LAG SCREW

BRANCH LINE HANGER TO RED-I JOIST

NTS — 6

ANVIL 310 SURGE RESTRAINER

TO RESTRAIN THE UPWARD MOVEMENT OF PIPE AS IT OCCURS DURING SPRINKLER HEAD ACTIVATION OR SEISMIC ACTIVITY.

END OF LINE RESTRAINT

NTS — 2

1. SWAY BRACE MATERIAL TO BE PER DETAILS 12,13/FP4.0
2. DETAIL TO BE PART OF OPEN WEB JOIST DEFERRED APPROVAL SET

SWAY BRACE ATTACHMENT TO OPEN WEB JOIST (PER DETAIL 12/S0.40)

NTS — EQ5, EQ6 — 14

1. ANVIL FIG. AF771 SWIVEL SWAY BRACE ATTACHMENT
2. BRACE PIPE - 1" SCH. 40
3. ANVIL FIG. AF411 LONGITUDINAL SEISMIC BRACE CLAMP
4. ANVIL AF078 BRACE ATTACHMENT FITTING

LONGITUDINAL SWAY BRACE AT I JOIST

NTS — EQ2 — 10

1. MINIMUM 4 X NO. 2 GRADE DOUGLAS FIR OR SOUTHERN PINE BLOCKING
2. TWO 16D (3-½) COMMON NAILS
3. 3/8" ALL THREADED ROD
4. ANVIL FIG. 69 ADJUSTIBLE RING HANGER
5. 3 X 1 1/2" LAG SCREW

MAIN HANGER TO I JOIST

NTS — 7

1. T–BAR CEILING
2. EXPANSION PLATE

PENDENT SPRINKLER THROUGH T-BAR CEILING

NTS — 3

1. 1" GLOBE VALVE
2. NIPPLE
3. PLUG

GLOBE VALVE FOR AIR RELIEF

NTS — 4

KEYNOTES

1. CHROME, 5.6K, 155 DEG, SSP, SEMI-REC CHROME ESHUTCHEON
2. BRASS, 5.6K, 200 DEG, SSP
3. T-BAR CEILING
4. BRANCH LINE
5. CROSS MAIN

FIRE SPRINKLER BUILDING CROSS SECTION

1/4" = 1'-0" — 11

AGENCY

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122536 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/24/2023

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architecture planning interiors

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An Employee Owned Corporation

ARCHITECT

LICENSED ARCHITECT
JOHN M. FLEWELLING
C-26053
Renl. Date 08/31/2023
STATE OF CALIFORNIA

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER
MARK JAMES "BASKIN"
No. M26570
Exp. 06-30-24
MECHANICAL
STATE OF CALIFORNIA

Drawn by

Checked by

Revisions

No.	Date	Description

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared for a specific site. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Flewelling & Moody.

SOUTHERN KERN UNIFIED SCHOOL DISTRICT
ROSAMOND HIGH SCHOOL

CAFETERIA BUILDING

2925 ROSAMOND BLVD.
ROSAMOND, CA 93560

FIRE SPRINKLER DETAILS AND BUILDING CROSS SECTION

Job No.
2990

Date
06-07-22

FP4.0

BME BASKIN MECHANICAL ENGINEERS
2131 19th St, Suite B
Bakersfield, CA 93301
Tel: (661) 397-2114
Job: 22002
Plt: 03-07-23

SHEET LIST		
ALL GOOD	Sheet Number	Sheet Name
Yes	FS-0.0	NOTES & DETAILS
Yes	FS-1.0	EQUIPMENT
Yes	FS-2.0	EQUIPMENT SCHEDULE
Yes	FS-2.1	EQUIPMENT SCHEDULE
Yes	FS-3.0	PLUMBING
Yes	FS-4.0	ELECTRICAL
Yes	FS-5.0	BUILDING CONDITIONS
Yes	FS-6.0	ELEVATIONS
Yes	FS-6.1	ELEVATIONS
Yes	FS-7.0 ICS-127526CS	FABRICATION DRAWINGS ICS
Yes	FS-7.1 ICS-127526	FABRICATION DRAWINGS ICS
Yes	FS-7.1.1 ICS-127526HP	FABRICATION DRAWINGS ICS
Yes	FS-7.2 ICS-127526DIM	FABRICATION DRAWINGS ICS
Yes	FS-7.3 ICS-127526ED	FABRICATION DRAWINGS ICS
Yes	FS-7.4 ICS-127526WL	FABRICATION DRAWINGS ICS
Yes	FS-7.5 ICS-127526FL	FABRICATION DRAWINGS ICS
Yes	FS-7.6 ICS-127526WO	FABRICATION DRAWINGS ICS
Yes	FS-7.7 ICS-127526RCD	FABRICATION DRAWINGS ICS
Yes	FS-7.8 ICS-127526TDD	FABRICATION DRAWINGS ICS
Yes	FS-7.9 ICS-127526LD	FABRICATION DRAWINGS ICS
Yes	FS-7.10 ICS-127526RFD	FABRICATION DRAWINGS ICS
Yes	FS-7.11 ICS-127526CWF	FABRICATION DRAWINGS ICS
Yes	FS-7.12 ICS-127527CS	FABRICATION DRAWINGS ICS
Yes	FS-7.13 ICS-127527	FABRICATION DRAWINGS ICS
Yes	FS-7.14 ICS-1257527DIM	FABRICATION DRAWINGS ICS
Yes	FS-7.15 ICS-1257527ED	FABRICATION DRAWINGS ICS
Yes	FS-7.16 ICS-125727WL	FABRICATION DRAWINGS ICS
Yes	FS-7.17 ICS-127527FL	FABRICATION DRAWINGS ICS
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Yes	FS-7.20 ICS-127527DR	FABRICATION DRAWINGS ICS
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Yes	FS-7.26 ICS-127528	FABRICATION DRAWINGS ICS
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Yes	FS-7.35 ICS-127528LD	FABRICATION DRAWINGS ICS
Yes	FS-7.36 ICS-127528CWF	FABRICATION DRAWINGS ICS

HEALTH DEPARTMENT NOTES

1. ALL EQUIPMENT SHALL MEET NATIONAL SANITATION FOUNDATION STANDARDS.
2. FLOOR SURFACE IN KITCHEN, SERVING AREA AND RESTROOMS SHALL BE SMOOTH WASHABLE CONTINUOUS APPROVED MATERIAL, COVED UP AT WALL 6 INCHES WITH 3/8" MINIMUM RADIUS COVE. SAMPLE OF MATERIAL TO BE SUBMITTED FOR APPROVAL.
3. WALLS AND CEILINGS OF KITCHEN, SERVING AREA AND RESTROOMS SHALL BE OF A DURABLE, SMOOTH, NONABSORBENT, LIGHT COLORED AND WASHABLE SURFACE. SAMPLES OF MATERIAL AND COLOR TO BE SUBMITTED FOR APPROVAL.
4. ALL EQUIPMENT SHALL BE MOUNTED ON 6" LEGS, CASTER OR MINIMUM 4" HIGH CURB, AND BE CONSTRUCTED OF NONTOXIC, NON-CORROSIVE MATERIALS. DURABLE, SMOOTH, NONABSORBENT AND WASHABLE.
5. ALL UTENSIL AND FOOD PREPARATION SINKS SHALL DRAIN TO A FLOOR SINK.
6. ALL HAND SINKS TO HAVE PERMANENTLY INSTALLED SOAP AND TOWEL DISPENSERS.
7. WATER HEATER TO BE PROVIDED. SIZED TO PROVIDE ADEQUATE CAPACITY FOR ALL HOT WATER REQUIREMENTS AT A MINIMUM OF 120 DEGREES FAHRENHEIT.
8. ALL SINKS TO BE EQUIPPED WITH HOT AND COLD MIXING FAUCETS.
9. ALL EXPOSED PLUMBING AND ELECTRICAL LINES SHALL BE MOUNTED SO AS TO FACILITATE CLEANING.
10. GREASE TRAP OR INTERCEPTOR SHALL BE LOCATED OUTSIDE OF ESTABLISHMENT.
11. ALL EXPOSED ELECTRICAL LINES SHALL BE RUN IN RIGID OR SEALTIGHT CONDUIT AND TO BE MOUNTED SO AS TO FACILITATE CLEANING.
12. SHATTER PROOF SHIELDS WILL BE PROVIDED ON ALL LIGHTS IN KITCHEN AND FOOD SERVING AREAS.
13. WALK-IN COOLER TO CONFORM WITH N.S.F. STANDARDS OR EQUIVALENT AND TO MEET WITH HEALTH DEPT. REQUIREMENTS.
14. ALL EXTERIOR DOORS TO HAVE SELF CLOSING DEVICES.
15. TRASH DUMPSTER LOCATED OUTSIDE ON HARD CLEANABLE SURFACE.
16. PROVIDE MINIMUM 50 FOOT CANDLES OF LIGHT IN ALL FOOD PREPARATION AND STORAGE AREAS, UTENSIL WASH, BARS AND RESTROOM AREAS.
17. BUILDING TO BE RODENT PROOFED, WITH ALL DOORS COMING TO WITHIN 1/16 INCH OF FLOOR OR THRESHOLD.
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21. ALL FLOOR SINKS SHALL BE HALF EXPOSED OR OTHERWISE READILY ACCESSIBLE FOR INSPECTION AND CLEANING. FLOOR SINK SHALL NOT POSE A TRIPPING HAZARD.
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27. PUBLIC SEWAGE SYSTEM IS USED.
28. ALL EQUIPMENT TO BE N.S.F. APPROVED OR FABRICATED TO N.S.F. STANDARDS.

GENERAL NOTES

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PLUMBING SYMBOLS AND ABREVIATIONS

CW	●┼	COLD WATER
HW	●┼	HOT WATER
CHR	●┼R	CHILLED WATER RETURN
CHS	●┼ S	CHILLED WATER SUPPLY
IW	○	INDIRECT WASTE
DW	○─○	DIRECT WASTE
FS	▮	FLOOR SINK
FD	◉	FLOOR DRAIN

FOOD SERVICE PLUMBING NOTES

1. ALL EQUIPMENT SHALL MEET NATIONAL SANITATION FOUNDATION STANDARDS.
2. FLOOR SURFACE IN KITCHEN, SERVING AREA AND RESTROOMS SHALL BE SMOOTH WASHABLE CONTINUOUS APPROVED MATERIAL, COVED UP AT WALL 6 INCHES WITH 3/8" MINIMUM RADIUS COVE. SAMPLE OF MATERIAL TO BE SUBMITTED FOR APPROVAL.
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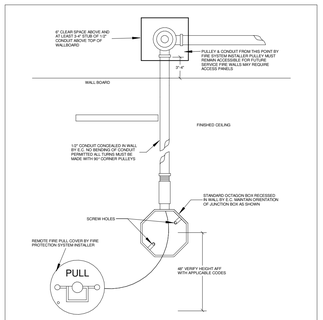
FOOD SERVICE ELECTRICAL LEGEND

⏚	120 V RECEPTACLE
◧	HIGH VOLTAGE RECEPTACLE
(J)	JUNCTION BOX
◥◤	DATA CONNECTION
$	SWITCH
(F)	FIRE PULL STATION

FOOD SERVICE ELECTRICAL NOTES

1. ELECTRICAL CONTRACTOR TO VERIFY ALL INCOMING SERVICE AND FINAL HOOK-UP TO ALL APPLICABLE EQUIPMENT AND TO PROVIDE ALL SWITCHES, BREAKERS, CONDUIT, ETC. UNLESS SPECIFICALLY STATED OTHERWISE.
2. ELECTRICAL CONTRACTOR TO PROVIDE ALL JUNCTION BOXES, OUTLETS AND RECEPTACLES IN FIXTURES. FIXTURE FABRICATOR TO LOCATE ALL RECEPTACLES AND SWITCHES WHEN PART OF FIXTURE. INTERNAL WIRING TO BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.
3. ALL ELECTRICAL OUTLETS AND CONNECTIONS SHOWN ON THIS PLAN ARE FOR EQUIPMENT SHOWN ON FOOD SERVICE EQUIPMENT PLAN ONLY. (SEE ARCHITECTURAL PLANS FOR ADDITIONAL ELECTRICAL REQUIREMENTS).
4. ALL HORIZONTAL DIMENSIONS SHOWN ARE FROM FINISHED FACE OF WALL TO CENTERLINE OF OUTLET UNLESS OTHERWISE NOTED ON PLANS OR DETAILS. ELECTRICAL CONTRACTOR TO VERIFY ALL DIMENSIONS AT JOB SITES.
5. ALL SYMBOLS NOTED +12", +24", ETC. TO STUB OUT OF WALL AT HEIGHT INDICATED. HEIGHT IS GIVEN FROM FINISHED FLOOR (NOT FINISHED CURB) TO CENTERLINE OF OUTLET. ALL SYMBOLS NOTED "STUB UP" ARE TO STUB UP ABOVE FINISHED FLOOR AT HEIGHT AND LOCATION INDICATED. (MINIMUM HEIGHT TO BE 6" A.F.F.).
6. ELECTRICAL CONTRACTOR TO PROVIDE 6'-0" PIGTAIL FLEX CONDUIT AT ALL DIRECT CONNECT STUB OUTS, EXTEND AND CONNECT TO FIXTURES.
7. ELECTRICAL CONTRACTOR TO WIRE MAGNETIC CONTRACTORS FOR POWER SHUT-OFF FOR ALL ELECTRICAL COOKING EQUIPMENT THAT IS PROTECTED BY THE FIRE PROTECTION SYSTEM. CONNECT 115V CONTROL CIRCUIT FROM MICRO-SWITCH SYSTEM ON CYLINDER, MOUNT TO CONTRACTOR COIL.
8. ELECTRICAL CONTRACTOR TO PROVIDE A MINIMUM OF 3 WIRES ON ALL 208 OR 230 VOLT CIRCUITS.
9. ELECTRICAL CONTRACTOR TO RUN IN CONDUIT 115V, 2 WIRE CIRCUIT FROM COMPRESSOR TO TIME CLOCK AND 5 WIRES FROM CLOCK TO COIL FOR AUTOMATIC DEFROST HOOK-UP ON REMOTE FREEZER CABINETS.
10. ELECTRICAL CONTRACTOR TO RUN IN CONDUIT 208V., 3 WIRE CIRCUIT FROM COMPRESSOR TO TIME CLOCK AND 5 WIRES FROM TIME CLOCK TO COIL FOR AUTOMATIC DEFROST HOOK-UP ON REMOTE WALK-IN FREEZER.
11. ELECTRICAL CONTRACTOR TO RUN IN CONDUIT 208V., 3 WIRE CIRCUIT FROM DISCONNECT TO COMPRESSOR, 2 WIRES FROM TIME CLOCK TO COMPRESSOR, 5 WIRES FROM CLOCK TO COIL AND 5 WIRES FROM CONTRACTOR TO COIL FOR WALK-IN FREEZER.
12. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL SERVICE ON ROOF FOR EXHAUST AND MAKE-UP AIR SYSTEMS (VERIFY LOCATION).
13. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL UNDERBAR LIGHTING AND CONNECT BACKBAR DISPLAY LIGHTING PROVIDED BY THE FOOD SERVICE EQUIPMENT CONTRACTOR.
14. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL STAINLESS STEEL COVER PLATES FOR ALL RECEPTACLES AND SWITCHES IN FOOD PREPARATION AREAS UNLESS OTHERWISE NOTED. ALL RECEPTACLES TO BE SET HORIZONTALLY.
15. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ALL GENERAL LIGHTING FIXTURES COMPLETE WITH LAMPS. DECORATIVE LIGHT FIXTURES THAT ARE SUPPLIED BY THE FOOD SERVICE EQUIPMENT CONTRACTOR ARE TO BE INSTALLED BY THE ELECTRICAL CONTRACTOR WITH LAMPS BY OWNER, UNLESS OTHERWISE NOTED.
16. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL EXIT LIGHTS UNLESS OTHERWISE NOTED.
17. ELECTRICAL CONTRACTOR TO PROVIDE CAPS AND CORDS FOR ALL ITEMS WHICH USE CONVENIENCE OUTLETS WHEN NOT SUPPLIED BY THE MANUFACTURER AND MAY SHORTEN ANY CORDS IF NECESSARY OR REQUESTED.
18. ELECTRICAL CONTRACTOR TO INSTALL FLY FAN(S) AND/OR AIR CURTAINS PROVIDED BY THE FOOD SERVICE EQUIPMENT CONTRACTOR, UNLESS OTHERWISE NOTED.
19. LIGHT AND POWER PANELS TO BE SELECTED WITH 20 PERCENT SPARE CIRCUIT CAPACITY TO PERMIT EXPANSION.
20. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL CONDUIT FOR PULL-THRU OF REFRIGERATION AND BEVERAGE LINES AS SHOWN ON PLAN WITH A MINIMUM BENDING RADIUS OF 24". (NO FACTORY "LS" PERMITTED.) VERIFY LOCATION AND DIAMETER.
21. ELECTRICAL CONTRACTOR TO VERIFY ALL REQUIREMENTS FOR HOT WATER TANK WITH HEALTH DEPARTMENT REQUIREMENTS.
22. ELECTRICAL CONTRACTOR TO PROVIDE AN INSTALL MECHANICAL VENTILATION WITH LIGHT AND SWITCH IN RESTROOMS AND CHANGE ROOMS. (MIN. AIR CHANGE = 12 PER HOUR.)
23. FIXTURE FABRICATOR SHALL CUT ACCESS HOLES TO CONVENIENCE OUTLETS IN BACK SPLASHES, ETC. BUT ELECTRICAL CONTRACTOR TO PROVIDE EXTENSION SHIELDS IF REQUIRED.
24. ELECTRICAL CONTRACTOR TO CONNECT ALL COMPRESSORS COMPLETE WITH DISCONNECT SWITCHES AND MAGNETIC STARTERS (UNLESS THERE IS A PRE-WIRED COMPRESSOR RACK THAT INCLUDES DISCONNECT SWITCHES.)
25. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ALL WIRING FOR WALK-IN COOLERS AND FREEZERS ON THE EXTERIOR OF THE BOX WHENEVER POSSIBLE.
26. ELECTRICAL CONTRACTOR TO VERIFY ALL DIMENSIONS AT THE JOB SITE.
27. ELECTRICAL CONTRACTOR TO VERIFY ANY ADDITIONAL ELECTRICAL SERVICES REQUIRED ELSEWHERE IN THE BUILDING FOR ITEMS NOT SHOWN ON THE PLAN, AND FOR N.I.C. ITEMS.
28. ELECTRICAL CONTRACTOR TO USE EXISTING ELECTRICAL SERVICES TO CONNECT NEW AND RE-USED EQUIPMENT, WHEN POSSIBLE, AND TO CAP OFF ANY EXISTING SERVICES MADE OBSOLETE BY THESE PLANS.
29. ELECTRICIAN TO VERIFY TYPE OF CONDUIT THAT MEETS LOCAL BUILDING CODES.
30. ELECTRICIAN TO VERIFY ALL WIRING OF WALK-IN COOLERS/FREEZERS WITH REFRIGERATION CONTRACTOR PRIOR TO INSTALL.
31. ELECTRICIAN TO REFER TO REFRIGERATION OR BUILDING CONDITIONS PLAN FOR ALL CONDUIT LOCATIONS.
32. ELECTRICAL CONTRACTOR TO PROVIDE ALL FIRE APPROVED POKE THRU'S AS REQUIRED BY LOCAL CODE FOR ALL CONCRETE PENETRATIONS.
33. ELECTRICAL CONTRACTOR TO CONNECT ALL EXHAUST AND MAKE-UP AIR FANS AND SUPPLY MAGNETIC STARTERS.
34. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL 4/0 BOX AT +48" A.F.F. WITH 1/2" APPROVED CONDUIT AS SHOWN ON PLANS, FOR PULL STATIONS.
35. ELECTRICAL CONTRACTOR TO INTERCONNECT EXHAUST AND MAKE-UP AIR FANS TO SWITCH AT HOOD.
36. ELECTRICIAN TO PROVIDE SERVICE FOR SOUND SYSTEMS, P.O.S. SYSTEMS AND TELEPHONES.
37. ELECTRICIAN TO HOOK-UP HEATER STRIPS AT COLD STORAGE ROOM DOORS AND DRAIN LINES AS REQUIRED.D



RECESSED REMOTE FIRE PROTECTION PULL STATION DETAIL

BOX AND CONDUIT INSTALLED & SECURED BY ELECTRICAL TRADE
FIRE SYSTEM INSTALLATION TO BE BY AUTHORIZED DISTRIBUTOR

REMOTE FIRE SYSTEM PULL DETAIL RFP-1

WALL BACKING SCHEDULE		
#	DESCRIPTION	HEIGHT
1	HANDSINK	+26" AFF TO 56" AFF
2	WATER FILTER	+72" AFF TO +84" AFF
3	DOUBLE WALL SHELF	+48" AFF TO +78" AFF
4	SINGLE HIGH SHELF	+60" AFF TO +72" AFF
5	AIR CURTAIN	TOP DOOR +24"
6	PRE RINSE	+51" AFF TO +63" AFF

AGENCY

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

2925 ROSAMOND BLVD.
ROSAMOND, CA 93560

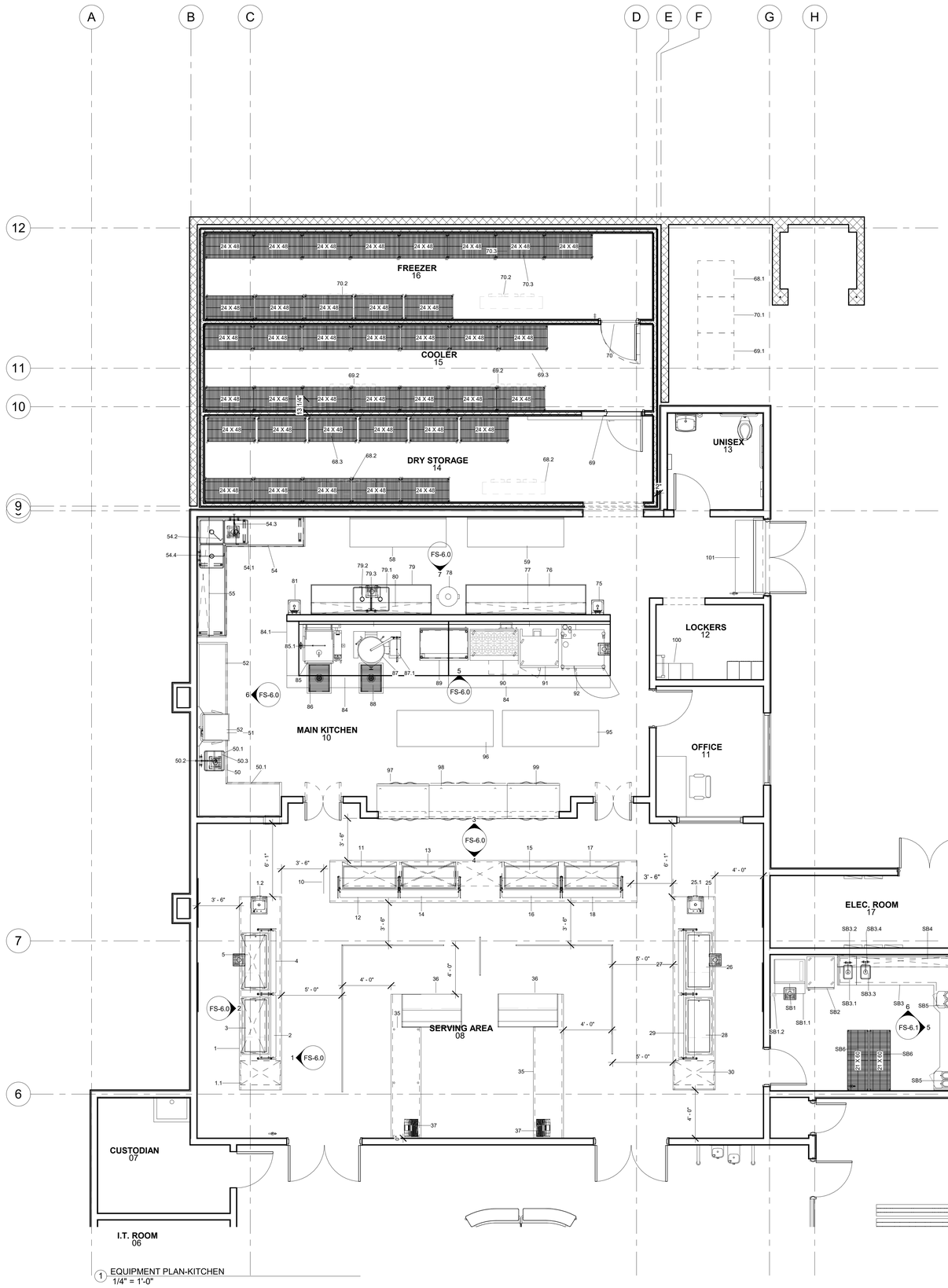
Drawing Title

NOTES & DETAILS

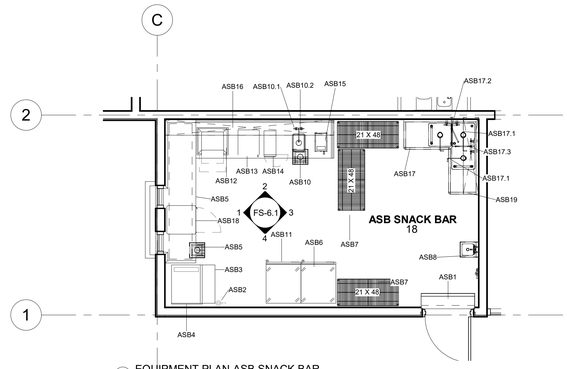
Job No. 2990

Sheet No. **FS-0.0**

Date 01.30.2023



1 EQUIPMENT PLAN-KITCHEN
1/4" = 1'-0"



2 EQUIPMENT PLAN-ASB SNACK BAR
1/4" = 1'-0"

Applicable Code: 2019 CBC

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.

GENERAL NOTES

KAMRAN AND COMPANY, INC. (KAMRAN) MAKES NO WARRANTIES, REPRESENTATIONS OR GUARANTEES OF ANY KIND OR NATURE, EXPRESS OR IMPLIED, WITH RESPECT TO THE ACCURACY, APPLICABILITY, OR SUITABILITY FOR USE OF THE SUBMITTED DRAWINGS. THE DRAWINGS ARE ILLUSTRATIONS OF CONCEPTS AND ARE NOT DRAWN AS ARCHITECTURAL PLANS OR DETAILED ENGINEERING DRAWINGS. KAMRAN ASSUMES NO RESPONSIBILITY FOR ANY ERRORS OR OMISSIONS AND ANY INCIDENTAL, INDIRECT OR CONSEQUENTIAL DAMAGES WHATSOEVER ARISING FROM THE USE OF INFORMATION PROVIDED HEREIN. THE DRAWINGS COVER WORK INCLUDED IN KAMRAN'S SCOPE WORK. KAMRAN DOES NOT ACCEPT RESPONSIBILITY FOR DIMENSIONS AFFECTING THE WORK OF OTHERS. THESE DRAWINGS SHOULD BE CHECKED AND COORDINATED BY THE CONTRACTOR AND/OR THE OWNER AGAINST DRAWINGS PROVIDED BY THE SUPPLIERS OF THOSE MATERIALS AND BY THE DRAWINGS PROVIDED BY OTHER TRADES. THE DETAILS OF SURROUNDING CONDITIONS RELATED TO KAMRAN'S WORK, BUT NOT FURNISHED BY KAMRAN HAS BEEN SHOWN ON THESE DRAWINGS FOR REFERENCE ONLY AND SHOULD NOT BE RELIED BY CONTRACTOR, OWNER OR ANY OTHER TRADE..

HEALTH DEPARTMENT NOTES

1. ALL EQUIPMENT SHALL MEET NATIONAL SANITATION FOUNDATION STANDARDS.
2. FLOOR SURFACE IN KITCHEN, SERVING AREA AND RESTROOMS SHALL BE SMOOTH WASHABLE CONTINUOUS APPROVED MATERIAL, COVED UP AT WALL 6 INCHES WITH 3/8" MINIMUM RADIUS COVE. SAMPLE OF MATERIAL TO BE SUBMITTED FOR APPROVAL.
3. WALLS AND CEILINGS OF KITCHEN, SERVING AREA AND RESTROOMS SHALL BE OF A DURABLE, SMOOTH, NONABSORBENT, LIGHT COLORED AND WASHABLE SURFACE. SAMPLES OF MATERIAL AND COLOR TO BE SUBMITTED FOR APPROVAL.
4. ALL EQUIPMENT SHALL BE MOUNTED ON 6" LEGS, CASTER OR MINIMUM 4" HIGH CURB, AND BE CONSTRUCTED OF NONTOXIC, NON-CORROSIVE MATERIALS. DURABLE, SMOOTH, NONABSORBENT AND WASHABLE.
5. ALL UTENSIL AND FOOD PREPARATION SINKS SHALL DRAIN TO A FLOOR SINK.
6. ALL HAND SINKS TO HAVE PERMANENTLY INSTALLED SOAP AND TOWEL DISPENSERS.
7. WATER HEATER TO BE PROVIDED. SIZED TO PROVIDE ADEQUATE CAPACITY FOR ALL HOT WATER REQUIREMENTS AT A MINIMUM OF 120 DEGREES FAHRENHEIT.
8. ALL SINKS TO BE EQUIPPED WITH HOT AND COLD MIXING FAUCETS.
9. ALL EXPOSED PLUMBING AND ELECTRICAL LINES SHALL BE MOUNTED SO AS TO FACILITATE CLEANING.
10. GREASE TRAP OR INTERCEPTOR SHALL BE LOCATED OUTSIDE OF ESTABLISHMENT.
11. ALL EXPOSED ELECTRICAL LINES SHALL BE RUN IN RIGID OR SEALTIGHT CONDUIT AND TO BE MOUNTED SO AS TO FACILITATE CLEANING.
12. SHATTER PROOF SHIELDS WILL BE PROVIDED ON ALL LIGHTS IN KITCHEN AND FOOD SERVING AREAS.
13. WALK-IN COOLER TO CONFORM WITH N.S.F. STANDARDS OR EQUIVALENT AND TO MEET WITH HEALTH DEPT. REQUIREMENTS.
14. ALL EXTERIOR DOORS TO HAVE SELF CLOSING DEVICES.
15. TRASH DUMPSTER LOCATED OUTSIDE ON HARD CLEANABLE SURFACE.
16. PROVIDE MINIMUM 50 FOOT CANDLES OF LIGHT IN ALL FOOD PREPARATION AND STORAGE AREAS, UTENSIL WASH, BARS AND RESTROOM AREAS.
17. BUILDING TO BE RODENT PROOFED, WITH ALL DOORS COMING TO WITHIN 1/16 INCH OF FLOOR OR THRESHOLD.
18. ALL EQUIPMENT, FLASHING AND BACK SPLASHES, UNLESS EASILY MOVABLE, SHALL BE SEALED TO THE WALL AND/OR ABUTTING EQUIPMENT.
19. ALL TOILETS TO HAVE PERMANENTLY INSTALLED TISSUE DISPENSERS.
20. REFRIGERATION EQUIPMENT SHALL HAVE CONDENSATE EVAPORATOR OR DRAIN TO FLOOR SINK.
21. ALL FLOOR SINKS SHALL BE HALF EXPOSED OR OTHERWISE READILY ACCESSIBLE FOR INSPECTION AND CLEANING. FLOOR SINK SHALL NOT POSE A TRIPPING HAZARD.
22. HOODS TO EXTEND A MINIMUM OF 6" BEYOND EDGE OF COOKING SURFACE AS MEASURED FROM INSIDE EDGE.
23. RESTROOM DOORS SHALL BE TIGHT FITTING AND EQUIPPED WITH SELF CLOSING DEVICE.
24. ALL RESTROOMS SHALL BE PROVIDED WITH VENTILATION TO OUTSIDE.
25. MOP SINK TO BE PROVIDED WITH HOT AND COLD WATER PROVIDED WITH BACK FLOW PROTECTION.
26. ALL EQUIPMENT WHICH GENERATES CONDENSATE AND LIQUID WASTES FROM STEAM TABLES, ICE MACHINES AND BINS, UTENSIL WASH SINKS, FOOD PREPARATION SINKS, DISPLAY CASES, ETC. SHALL BE DRAINED BY INDIRECT WASTE LINE TO FLOOR SINK OR APPROVED RECEPTOR. FLOOR DRAINS ARE NOT TO BE USED IN LIEU OF FLOOR SINK.
27. PUBLIC SEWAGE SYSTEM IS USED.
28. ALL EQUIPMENT TO BE N.S.F. APPROVED OR FABRICATED TO N.S.F. STANDARDS.

FOR CAPTIVEAIRE KITCHEN HOOD AND ANSUL SYSTEM SEE SHEETS M5.01 TO M5.08.

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Owner

ROSAMOND HS

2925 WEST ROSAMOND BLVD
ROSAMOND, CA

Drawing Title

EQUIPMENT

Job No.
Project Number

Sheet No.
FS-1.0

Date
Issue Date

EQUIPMENT SCHEDULE PAGE 1

QTY	Item	Manufacturer	Model	Description	Equipment Comments	Volts	PH	AMPS	WATTS	HP	ELEC. AFF	ELECTRICAL NOTES	CW	HW	WATER AFF	DRAIN SIZE	DRAIN AFF	MBTU	GAS SIZE	GAS AFF	PLUMBING NOTES	Operating Weight	SEISMIC DETAIL
6	0	NIC		CONVENIENCE OUTLET		120	1	15			48"												
1	1	Fabricator	Custom	Counter																		2000	S2.00/15
1	1.1	Fabricator	Custom	Tray Storage																			
1	1.2	JOHN BOOS	PB-DISINK091106-STD	SINK, DROP-IN									1/2"	1/2"	STUB	1 1/2"	FS					30	
1	2	ENGLISH MFG. INC.	AMA-101A-2TIER	FOOD SHIELD																		50	
1	3	ALTO-SHAAM	400-CW	COLD FOOD DROP-IN WELL		120	1	5			STUB					3/4"	FS					375	
1	4	ENGLISH MFG. INC.	AMA-101A-2TIER	FOOD SHIELD																		50	
1	5	ALTO-SHAAM	400-CW	COLD FOOD DROP-IN WELL		120	1	5			STUB					3/4"	FS					375	
1	10	Fabricator	Custom	Counter																		2000	S2.00/15
1	11	ALTO-SHAAM	400-HW/D6	HOT FOOD DROP-IN WELL		208	1	8.7			STUB											200	
1	12	ENGLISH MFG. INC.	AMA-101A	FOOD SHIELD																		50	
1	13	ALTO-SHAAM	400-HW/D6	HOT FOOD DROP-IN WELL		208	1	8.7			STUB											200	
1	14	ENGLISH MFG. INC.	AMA-101A	FOOD SHIELD																		50	
1	15	ALTO-SHAAM	400-HW/D6	HOT FOOD DROP-IN WELL		208	1	8.7			STUB											200	
1	16	ENGLISH MFG. INC.	AMA-101A	FOOD SHIELD																		50	
1	17	ALTO-SHAAM	400-HW/D6	HOT FOOD DROP-IN WELL		208	1	8.7			STUB											200	
1	18	ENGLISH MFG. INC.	AMA-101A	FOOD SHIELD																		50	
1	25	Fabricator	Custom	Counter																		2000	S2.00/15
1	25.1	JOHN BOOS	PB-DISINK091106-STD	SINK, DROP-IN									1/2"	1/2"	STUB	1 1/2"	FS					20	
1	26	ALTO-SHAAM	400-CW	COLD FOOD DROP-IN WELL		120	1	5			STUB					3/4"	FS					375	
1	27	ENGLISH MFG. INC.	AMA-101A-2TIER	FOOD SHIELD																		50	
1	28	ALTO-SHAAM	400-CW	COLD FOOD DROP-IN WELL		120	1	5			STUB					3/4"	FS					375	
1	29	ENGLISH MFG. INC.	AMA-101A-2TIER	FOOD SHIELD																		50	
1	30	Fabricator	Custom	Tray Storage																			
2	35	Fabricator	Custom	POS COUNTER																		1500	S2.00/15
2	36	Structural Concepts	NR6055RSSV	Refrigerated Self-Service Case		120	1	16			18"											1300	S2.00/15
2	37	NIC		POS register		120	1	15			18"												
1	50	Fabricator	Custom	Soiled Dishtable with landing																		300	SMACNA A-2
1	50.1	Fabricator	Custom	Sink 20 X 20												1 1/2"						20	
1	50.2	T&S	B-0133-B	Pre-Rinse Faucet									1/2"	1/2"								11.55	
1	50.3	Fabricator	Custom	Rack Slide																		5	
1	51	CHAMPION	DH6000T-VHR	DISHWASHING MACHINE		208	3	46			24"		3/4"		18"	1 1/2"						385	SMACNA A-11
1	52	Fabricator	Custom	Clean dishtable																		150	SMACNA A-2
1	54	Fabricator	Custom	3 Compartment Sink																		200	SMACNA A-2
3	54.1	Fabricator	Custom	Sink 24" X 24" X 12"																		20	
3	54.2	T&S	B-3940	Twist Drain Valve												1 1/2"						4	
1	54.3	T&S	B-0133-12CRBJST	Pre-Rinse Unit: W/ Add-On Faucet									1/2"	1/2"								11	
1	54.4	T&S	B-0231	FAUCET									1/2"	1/2"								11	
1	55	Fabricator	Custom	Wall Shelf with Pot Rack																		200	SMACNA A-17
1	58	Fabricator	Custom	Work Table																		250	SMACNA A-2
1	59	Fabricator	Custom	Work Table																		250	SMACNA A-2
1	68.1	Fabricator	Custom	Outdoor air cooled condenser		208	3			3												300	
2	68.2	Fabricator	Custom	Low Profile Evaporators		120	1	10			AFC	INTERCONNECT BY EC										150	
11	68.3		Wire Shelf	Wire Shelving unit																		375	
1	69	Fabricator	Custom	Sliding 5' Cooler door																		150	FS-7.22
1	69.1	Fabricator	Custom	Outdoor air cooled condenser		208	3			3												300	
2	69.2	Fabricator	Custom	Low Profile Evaporators		208	1	20			AFC											150	
14	69.3		Wire Shelf	Wire Shelving unit																		375	
1	70	ThermalRite	Custom	Walk-In Freezer		120	1	15			AFC												FS-7.34
1	70.1	Fabricator	Custom	Outdoor air cooled condenser		208	3			6												300	
2	70.2	Fabricator	Custom	Low Profile Evaporators		208	1	20			AFC											150	
13	70.3		Wire Shelf	Wire Shelving unit																		375	
1	75	JOHN BOOS	PBHS-W-0909-P-SSLR	HAND SINK									1/2"	1/2"	18"	1 1/2"	18"					14	
1	76	Fabricator	Custom	Work Table																		150	
2	77	Fabricator	Custom	Wall Shelf																		100	
1	78	RUBBERMAID	W/ DOLLY AND LID	TRASH RECEPTACLE																		60	
1	79	Fabricator	Custom	Work Table	Marine Edge																	200	
2	79.1	Fabricator	Custom	Sink 18" X 24"																		20	
2	79.2	T&S	B-3940	Twist Drain Valve												1 1/2"						4	
1	79.3	T&S	B-0231	FAUCET									1/2"	1/2"								11	
2	80	Fabricator	Custom	Wall Shelf																		100	SMACNA A-17
1	81	JOHN BOOS	PBHS-W-0909-P-SSLR	HAND SINK									1/2"	1/2"	18"	1 1/2"	18"					14	
2	84	CaptiveAire	5424 ND-2-PSP-F	EXHAUST HOOD TYPE 1		120	1	10			AFC	INTERCONNECT BY EC											
1	84.1	CaptiveAire	Custom	Control and Ansul Cabinet		120	1	10			AFC	INTERCONNECT BY EC											
1	85	GROEN	BPM-30G	Tilting Braising Pan		120	1	5			36"	CORD AND PLUG BY EC	1/2"	1/2"				104	1/2"	24"		800	S2.00/15
1	85.1	T&S	B-0268-04	Double Pantry Faucet									1/2"	1/2"								11	
1	86	Fabricator	Custom	Floor Trough																		200	
1	87	GROEN	DH-40	Tilting, Steam Jacketed Kettle		120	1	5			36"	CORD AND PLUG BY EC	1/2"	1/2"				100	1/2"	24"		800	S2.00/15
1	87.1	T&S	B-0268-04	Double Pantry Faucet									1/2"	1/2"								11	
1	88	Fabricator	Custom	Floor Trough																		200	
1	89	IMPERIAL RANGE	ITG-48	THERMOSTATIC GRIDDLE														120	24"3/4"	24"		680	S2.00/15
1	90	IMPERIAL RANGE	IR-8-C-XB	8 Burner Range w/ oven		120	1	6			24"							286	3/4"	24"		800	S2.00/15
1	91	IMPERIAL RANGE	ICVG-2	Double Convection Oven		120	1	9			48"							140	3/4"	48"		1300	S2.00/15
1	92	RATIONAL	PRO 6 ON PRO 6	COMBI OVEN GAS		208	1		900		36" & 60"		3/4"		24" & 48"	2"	FS	106	3/4"	24" & 48"		2000	S2.00/15
1	95	Fabricator	Custom	Work Table																		300	SMACNA A-1
1	96	Fabricator	Custom	Work Table																		300	SMACNA A-1
1	97	Beverage-Air	PH2-1HS-PT	Heated Holding Cabinet, Pass-Thru		208	1	13			90"											700	S2.00/15
1	98	Beverage-Air	PRD3HC-1AS	Refrigerator, Pass-Thru		120	1	8.5			90"											1200	S2.00/15
1	99	Beverage-Air	PH2-1HS-PT	Heated Holding Cabinet, Pass-Thru		208	1	13			90"											700	S2.00/15
3	100		ELS-5DR	Locker 5 TIER																		100	SMACNA A-11
1	101	Berner	CH010-2070A	Air Curtain		120	1	14.4			96"	INTERCONNECT BY EC										130	

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LICENSED ARCHITECT
JASON COTTER
C-26053
Ren. Date 08/31/2025
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Job No.
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Sheet No.
FS-2.0

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EQUIPMENT SCHEDULE PAGE 2

QTY	Item	Manufacturer	Model	Description	Equipment Comments	Volts	PH	AMPS	WATTS	HP	ELEC. AFF	ELECTRICAL NOTES	CW	HW	WATER AFF	DRAIN SIZE	DRAIN AFF	MBTU	GAS SIZE	GAS AFF	PLUMBING NOTES	Operating Weight	SEISMIC DETAIL
2	ASB0	NIC		CONVENIENCE OUTLET		120	1	15			48"												
1	ASB1	Mars Air	Unheated N2	Air Curtain		120	1	7.2			96"	INTERCONNECT BY EC										65	
1	ASB2	3M Purification	ICE160-S	Water Filter Assembly									1/2"		84"							7	
1	ASB3	Scotsman	B530P	Ice Bin												3/4"	FS					500	S2.00/15
1	ASB4	Scotsman Ice	C1030MA_32D	Prodigy Ice Machine		208	1	16			72"		1/2"			3/4"	FS					235	
1	ASB5	Fabricator	Custom	Serving Coutner																		400	S2.00/15
1	ASB6	Beverage-Air	HBR23HC-1-HG	Refrigerator, Reach-In, Glass Door		120	1	7.5			36"											384	MOBILE
3	ASB7	Focus	Wire Shelf	Wire Shelving unit																		375	
1	ASB8	JOHN BOOS	PBHS-W-0909-P-SSLR	HAND SINK									1/2"	1/2"	18"	1 1/2"	18"					14	
1	ASB10	Fabricator	Custom	Work Table																		250	SMACNA A-2
1	ASB10.1	Fabricator	Custom	Dump Sink 10" X 14"												1 1/2"						10	
1	ASB10.2	T&S	B-0226	Faucet Deck Mount									1/2"	1/2"								5	
1	ASB11	Beverage-Air	HBF23HC-1-HG	Freezer, Reach-In, Glass Door		120	1	7.5			36"											600	S2.00/15
1	ASB12	STAR MANUFACTURING	30CBD	GRILL-MAX ROLLER GRILLS WITH BUILT-IN BUN DRAWER		120	1	9.6			48"											80	
2	ASB13	ACP	HDC10Y15	Commercial Microwave		120	1	14.4			48" & 60"											80	
1	ASB14	STAR MANUFACTURING	HPDE1H	SINGLE HOT FOOD DISPENSER		120	1	6.8			48"											45	
1	ASB15	BLOOMFIELD	8780	THERMAL SERVER COFFEE BREWER		120	1		1800		48"											60	
1	ASB16	Fabricator	Custom	Wall Shelf																		100	SMACNA A-17
1	ASB17	JOHN BOOS	3PBCS18-2D18	SINK, 3 COMPARTMENT																		200	SMACNA A-2
3	ASB17.1	T&S	B-3950	Waste Drain Valve												1 1/2"						4	
1	ASB17.2	T&S	B-0133-12CRBJST	Pre-Rinse Unit: W/ Add-On Faucet									1/2"	1/2"								14.95	
1	ASB17.3	T&S	B-0231	FAUCET									1/2"	1/2"								5	
1	ASB18	HATCO	FSD-1	FLAV-R-SAVOR, HOLDING & DISPLAY CABINET		120	1	11			48"											150	
1	ASB19	Fabricator	Custom	Wall Shelf with Pot Rack																		100	SMACNA A-17
2	SB0	NIC		CONVENIENCE OUTLET		120	1	15			48"												
1	SB1	Scotsman Ice	C1030MA_32D	Prodigy Ice Machine		208	1	16			72"		1/2"			3/4"	FS					235	SMACNA A-7
1	SB1.1	Scotsman	B530P	Ice Bin												3/4"	FS					500	S2.00/15
1	SB1.2	3M Purification	ICE160-S	Water Filter Assembly									1/2"		84"							7	
1	SB2	Beverage-Air	HBR23HC-1-HG	Refrigerator, Reach-In, Glass Door		120	1	7.5			36"											384	
1	SB3																						
1	SB3.1	Fabricator	Custom	Hand Sink 9" X 14"												1 1/2"	18"					14	
1	SB3.2	T&S	B-0226	Faucet Deck Mount									1/2"	1/2"								4	
1	SB3.3	Fabricator	Custom	Dump Sink 10" X 14"												1 1/2"						10	
1	SB3.4	T&S	B-0226	Faucet Deck Mount									1/2"	1/2"								4	
2	SB4	Fabricator	Custom	Wall Shelf																		100	
2	SB5	BUNN	58000.0014	ULTRA NX		120	1	15			48"											110	
2	SB6	Focus	Wire Shelf	Wire Shelving unit																		375	

AGENCY

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ARCHITECT

LICENSED ARCHITECT
C-26053
Ren. Date 08/31/2025
STATE OF CALIFORNIA

CONSULTANT

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CA B C61/D34:687988 CA C38:680904
AZ ROC112017 BE NV C26A:42022 NV C21A:52465

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Owner

ROSAMOND HS

2925 WEST ROSAMOND BLVD
ROSAMOND, CA

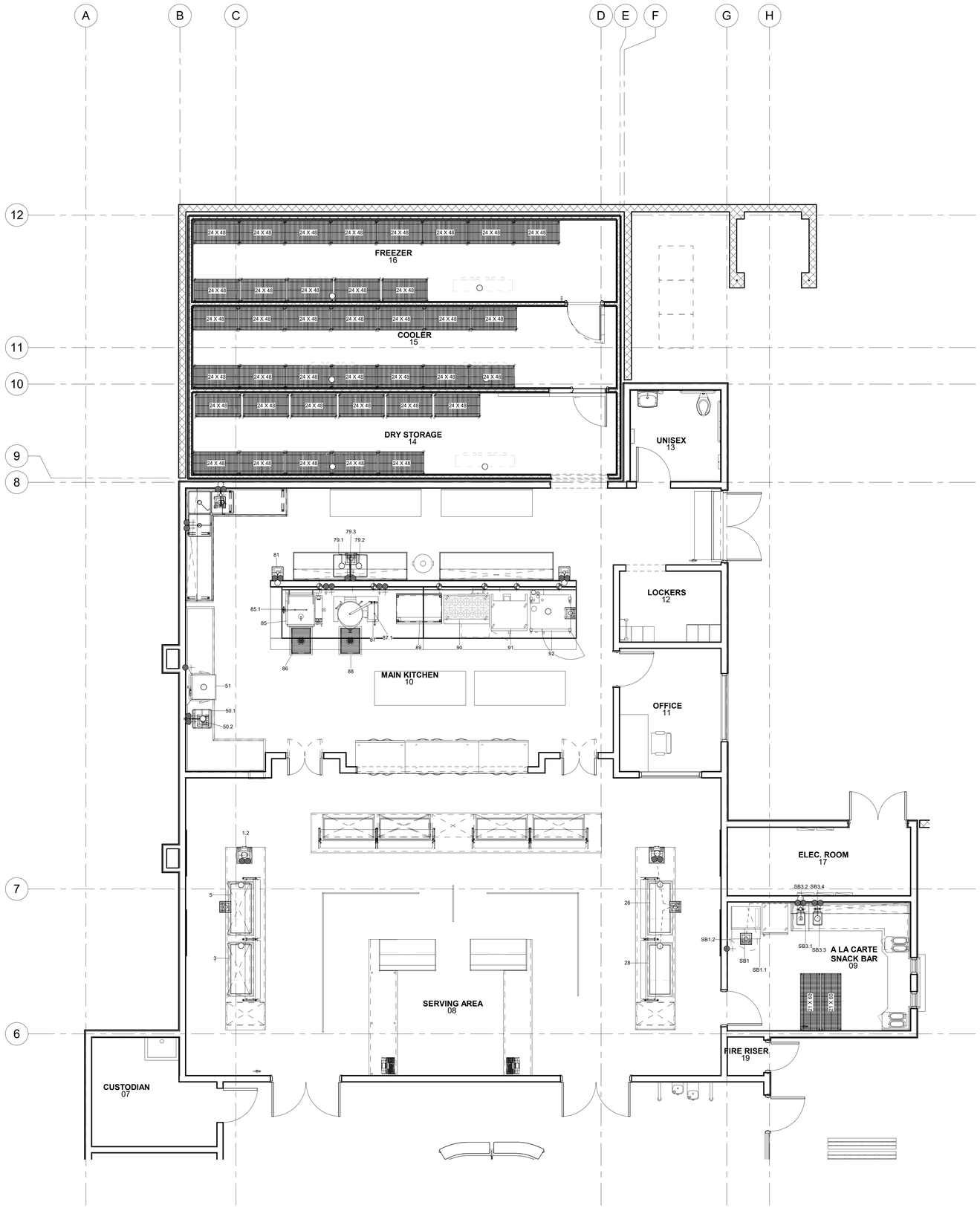
Drawing Title

EQUIPMENT SCHEDULE

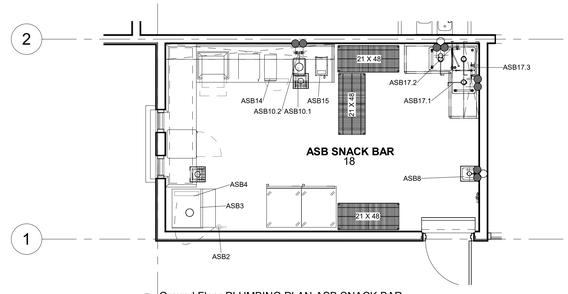
Job No.
Project Number

Sheet No.
FS-2.1

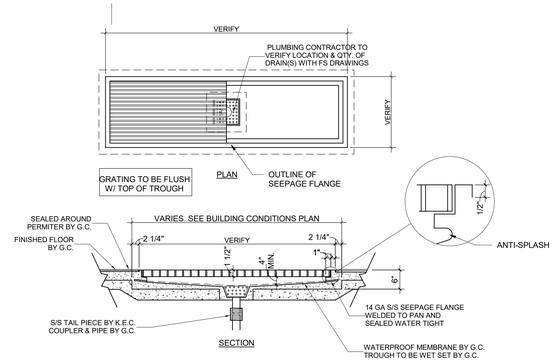
Date
Issue Date



1 PLUMBING PLAN-KITCHEN
1/4" = 1'-0"



2 Ground Floor-PLUMBING PLAN-ASB SNACK BAR
1/4" = 1'-0"



PLUMBING SYMBOLS AND ABREVIATIONS

CW		COLD WATER
HW		HOT WATER
CHR	R	CHILLED WATER RETURN
CHS	S	CHILLED WATER SUPPLY
IW		INDIRECT WASTE
DW		DIRECT WASTE
FS		FLOOR SINK
FD		FLOOR DRAIN

FOOD SERVICE PLUMBING NOTES

1. ALL EQUIPMENT SHALL MEET NATIONAL SANITATION FOUNDATION STANDARDS.
2. FLOOR SURFACE IN KITCHEN, SERVING AREA AND RESTROOMS SHALL BE SMOOTH WASHABLE CONTINUOUS APPROVED MATERIAL, COVED UP AT WALL 6 INCHES WITH 3/8" MINIMUM RADIUS COVE. SAMPLE OF MATERIAL TO BE SUBMITTED FOR APPROVAL.
3. WALLS AND CEILINGS OF KITCHEN, SERVING AREA AND RESTROOMS SHALL BE OF A DURABLE, SMOOTH, NONABSORBENT, LIGHT COLORED AND WASHABLE SURFACE. SAMPLES OF MATERIAL AND COLOR TO BE SUBMITTED FOR APPROVAL.
4. ALL EQUIPMENT SHALL BE MOUNTED ON 6" LEGS, CASTER OR MINIMUM 4" HIGH CURB, AND BE CONSTRUCTED OF NONTOXIC, NON-CORROSIVE MATERIALS. DURABLE, SMOOTH, NONABSORBENT AND WASHABLE.
5. ALL UTENSIL AND FOOD PREPARATION SINKS SHALL DRAIN TO A FLOOR SINK.
6. ALL HAND SINKS TO HAVE PERMANENTLY INSTALLED SOAP AND TOWEL DISPENSERS.
7. WATER HEATER TO BE PROVIDED. SIZED TO PROVIDE ADEQUATE CAPACITY FOR ALL HOT WATER REQUIREMENTS AT A MINIMUM OF 120 DEGREES FAHRENHEIT.
8. ALL SINKS TO BE EQUIPPED WITH HOT AND COLD MIXING FAUCETS.
9. ALL EXPOSED PLUMBING AND ELECTRICAL LINES SHALL BE MOUNTED SO AS TO FACILITATE CLEANING.
10. GREASE TRAP OR INTERCEPTOR SHALL BE LOCATED OUTSIDE OF ESTABLISHMENT.
11. ALL EXPOSED ELECTRICAL LINES SHALL BE RUN IN RIGID OR SEALTIGHT CONDUIT AND TO BE MOUNTED SO AS TO FACILITATE CLEANING.
12. SHATTER PROOF SHIELDS WILL BE PROVIDED ON ALL LIGHTS IN KITCHEN AND FOOD SERVING AREAS.
13. WALK-IN COOLER TO CONFORM WITH N.S.F. STANDARDS OR EQUIVALENT AND TO MEET WITH HEALTH DEPT. REQUIREMENTS.
14. ALL EXTERIOR DOORS TO HAVE SELF CLOSING DEVICES.
15. TRASH DUMPSTER LOCATED OUTSIDE ON HARD CLEANABLE SURFACE.
16. PROVIDE MINIMUM 50 FOOT CANDLES OF LIGHT IN ALL FOOD PREPARATION AND STORAGE AREAS, UTENSIL WASH, BARS AND RESTROOM AREAS.
17. BUILDING TO BE RODENT PROOFED, WITH ALL DOORS COMING TO WITHIN 1/16 INCH OF FLOOR OR THRESHOLD.
18. ALL EQUIPMENT, FLASHING AND BACK SPLASHES, UNLESS EASILY MOVABLE, SHALL BE SEALED TO THE WALL AND/OR ABUTTING EQUIPMENT.
19. ALL TOILETS TO HAVE PERMANENTLY INSTALLED TISSUE DISPENSERS.
20. REFRIGERATION EQUIPMENT SHALL HAVE CONDENSATE EVAPORATOR OR DRAIN TO FLOOR SINK.
21. ALL FLOOR SINKS SHALL BE HALF EXPOSED OR OTHERWISE READILY ACCESSIBLE FOR INSPECTION AND CLEANING. FLOOR SINK SHALL NOT POSE A TRIPPING HAZARD.
22. HOODS TO EXTEND A MINIMUM OF 6" BEYOND EDGE OF COOKING SURFACE AS MEASURED FROM INSIDE EDGE.
23. RESTROOM DOORS SHALL BE TIGHT FITTING AND EQUIPPED WITH SELF CLOSING DEVICE.
24. ALL RESTROOMS SHALL BE PROVIDED WITH VENTILATION TO OUTSIDE.
25. MOP SINK TO BE PROVIDED WITH HOT AND COLD WATER PROVIDED WITH BACK FLOW PROTECTION.
26. ALL EQUIPMENT WHICH GENERATES CONDENSATE AND LIQUID WASTES FROM STEAM TABLES, ICE MACHINES AND BINS, UTENSIL WASH SINKS, FOOD PREPARATION SINKS, DISPLAY CASES, ETC. SHALL BE DRAINED BY INDIRECT WASTE LINE TO FLOOR SINK OR APPROVED RECEPTOR. FLOOR DRAINS ARE NOT TO BE USED IN LIEU OF FLOOR SINK.
27. PUBLIC SEWAGE SYSTEM IS USED.
28. ALL EQUIPMENT TO BE N.S.F. APPROVED OR FABRICATED TO N.S.F. STANDARDS.

FOR CAPTIVEAIRE KITCHEN HOOD AND ANSUL SYSTEM SEE SHEETS M5.01 TO M5.08.

AGENCY

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ARCHITECT

LICENSED ARCHITECT C-26053 Ren. Date 08/31/2025 STATE OF CALIFORNIA

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ROSAMOND, CA

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PLUMBING

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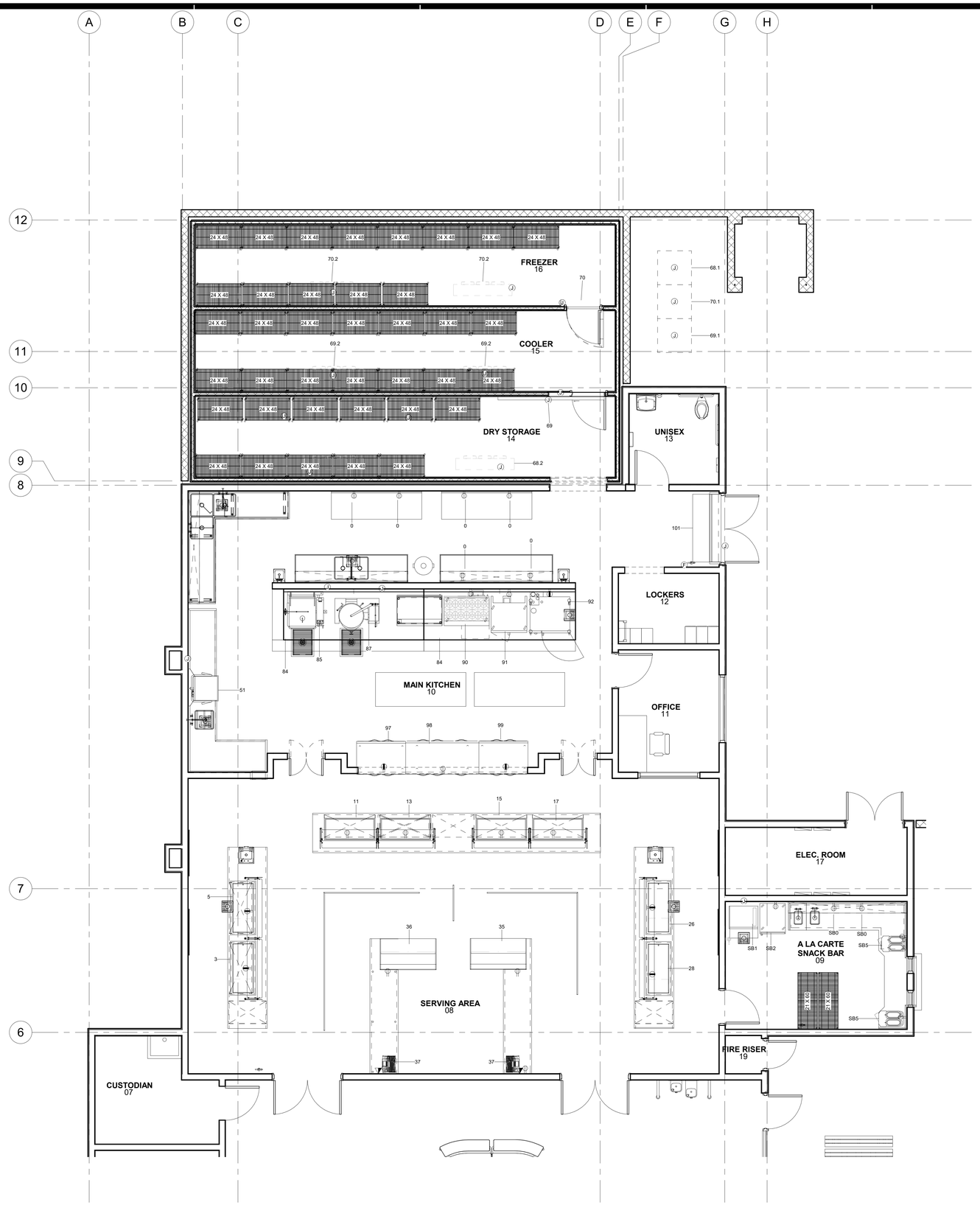
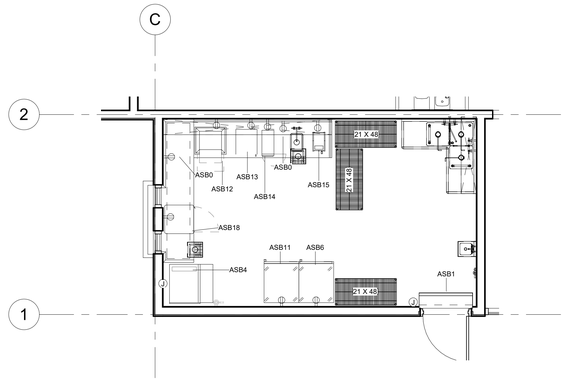
FS-3.0



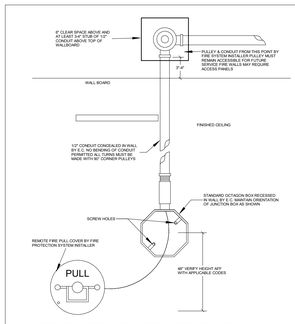
1 ELECTRICAL PLAN-KITCHEN
1/4" = 1'-0"



2 ELECTRICAL PLAN-ASB SNACK BAR
1/4" = 1'-0"

FOOD SERVICE ELECTRICAL NOTES

1. ELECTRICAL CONTRACTOR TO VERIFY ALL INCOMING SERVICE AND FINAL HOOK-UP TO ALL APPLICABLE EQUIPMENT AND TO PROVIDE ALL SWITCHES, BREAKERS, CONDUIT, ETC. UNLESS SPECIFICALLY STATED OTHERWISE.
2. ELECTRICAL CONTRACTOR TO PROVIDE ALL JUNCTION BOXES, OUTLETS AND RECEPTACLES IN FIXTURES. FIXTURE FABRICATOR TO LOCATE ALL RECEPTACLES AND SWITCHES WHEN PART OF FIXTURE. INTERNAL WIRING TO BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.
3. ALL ELECTRICAL OUTLETS AND CONNECTIONS SHOWN ON THIS PLAN ARE FOR EQUIPMENT SHOWN ON FOOD SERVICE EQUIPMENT PLAN ONLY. (SEE ARCHITECTURAL PLANS FOR ADDITIONAL ELECTRICAL REQUIREMENTS).
4. ALL HORIZONTAL DIMENSIONS SHOWN ARE FROM FINISHED FACE OF WALL TO CENTERLINE OF OUTLET UNLESS OTHERWISE NOTED ON PLANS OR DETAILS. ELECTRICAL CONTRACTOR TO VERIFY ALL DIMENSIONS AT JOB SITES.
5. ALL SYMBOLS NOTED "12", "24", ETC. TO STUB OUT OF WALL AT HEIGHT INDICATED. HEIGHT IS GIVEN FROM FINISHED FLOOR (NOT FINISHED CURB) TO CENTERLINE OF OUTLET. ALL SYMBOLS NOTED "STUB UP" ARE TO STUB UP ABOVE FINISHED FLOOR AT HEIGHT AND LOCATION INDICATED. (MINIMUM HEIGHT TO BE 6" A.F.F.)
6. ELECTRICAL CONTRACTOR TO PROVIDE 6'-0" PIGTAIL FLEX CONDUIT AT ALL DIRECT CONNECT STUB OUTS. EXTEND AND CONNECT TO FIXTURES.
7. ELECTRICAL CONTRACTOR TO WIRE MAGNETIC CONTRACTORS FOR POWER SHUT-OFF FOR ALL ELECTRICAL COOKING EQUIPMENT THAT IS PROTECTED BY THE FIRE PROTECTION SYSTEM. CONNECT 115V CONTROL CIRCUIT FROM MICRO-SWITCH SYSTEM ON CYLINDER. MOUNT TO CONTRACTOR COIL.
8. ELECTRICAL CONTRACTOR TO PROVIDE A MINIMUM OF 3 WIRES ON ALL 208 OR 230 VOLT CIRCUITS.
9. ELECTRICAL CONTRACTOR TO RUN IN CONDUIT 115V, 2 WIRE CIRCUIT FROM COMPRESSOR TO TIME CLOCK AND 5 WIRES FROM CLOCK TO COIL FOR AUTOMATIC DEFROST HOOK-UP ON REMOTE FREEZER CABINETS.
10. ELECTRICAL CONTRACTOR TO RUN IN CONDUIT 208V., 3WIRE CIRCUIT FROM COMPRESSOR TO TIME CLOCK AND 5 WIRES FROM TIME CLOCK TO COIL FOR AUTOMATIC DEFROST HOOK-UP ON REMOTE WALK-IN FREEZER.
11. ELECTRICAL CONTRACTOR TO RUN IN CONDUIT 208V., 3 WIRE CIRCUIT FROM DISCONNECT TO COMPRESSOR, 2 WIRES FROM TIME CLOCK TO COMPRESSOR, 5 WIRES FROM CLOCK TO COIL AND 5 WIRES FROM CONTRACTOR TO COIL FOR WALK-IN FREEZER.
12. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL SERVICE ON ROOF FOR EXHAUST AND MAKE-UP AIR SYSTEMS (VERIFY LOCATION).
13. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL UNDERBAR LIGHTING AND CONNECT BACKBAR DISPLAY LIGHTING PROVIDED BY THE FOOD SERVICE EQUIPMENT CONTRACTOR.
14. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL STAINLESS STEEL COVER PLATES FOR ALL RECEPTACLES AND SWITCHES IN FOOD PREPARATION AREAS UNLESS OTHERWISE NOTED. ALL RECEPTACLES TO BE SET HORIZONTALLY.
15. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ALL GENERAL LIGHTING FIXTURES COMPLETE WITH LAMPS. DECORATIVE LIGHT FIXTURES THAT ARE SUPPLIED BY THE FOOD SERVICE EQUIPMENT CONTRACTOR ARE TO BE INSTALLED BY THE ELECTRICAL CONTRACTOR WITH LAMPS BY OWNER, UNLESS OTHERWISE NOTED.
16. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL EXIT LIGHTS UNLESS OTHERWISE NOTED.
17. ELECTRICAL CONTRACTOR TO PROVIDE CAPS AND CORDS FOR ALL ITEMS WHICH USE CONVENIENCE OUTLETS WHEN NOT SUPPLIED BY THE MANUFACTURER AND MAY SHORTEN ANY CORDS IF NECESSARY OR REQUESTED.
18. ELECTRICAL CONTRACTOR TO INSTALL FLY FAN(S) AND/OR AIR CURTAINS PROVIDED BY THE FOOD SERVICE EQUIPMENT CONTRACTOR, UNLESS OTHERWISE NOTED.
19. LIGHT AND POWER PANELS TO BE SELECTED WITH 20 PERCENT SPARE CIRCUIT CAPACITY TO PERMIT EXPANSION.
20. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL CONDUIT FOR PULL-THRU OF REFRIGERATION AND BEVERAGE LINES AS SHOWN ON PLAN WITH A MINIMUM BENDING RADIUS OF 24", (NO FACTORY "LS" PERMITTED.) VERIFY LOCATION AND DIAMETER.
21. ELECTRICAL CONTRACTOR TO VERIFY ALL REQUIREMENTS FOR HOT WATER TANK WITH HEALTH DEPARTMENT REQUIREMENTS.
22. ELECTRICAL CONTRACTOR TO PROVIDE AN INSTALL MECHANICAL VENTILATION WITH LIGHT AND SWITCH IN RESTROOMS AND CHANGE ROOMS. (MIN. AIR CHANGE = 12 PER HOUR.)
23. FIXTURE FABRICATOR SHALL CUT ACCESS HOLES TO CONVENIENCE OUTLETS IN BACK SPLASHES, ETC. BUT ELECTRICAL CONTRACTOR TO PROVIDE EXTENSION SHIELDS IF REQUIRED.
24. ELECTRICAL CONTRACTOR TO CONNECT ALL COMPRESSORS COMPLETE WITH DISCONNECT SWITCHES AND MAGNETIC STARTERS (UNLESS THERE IS A PRE-WIRED COMPRESSOR RACK THAT INCLUDES DISCONNECT SWITCHES.)
25. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ALL WIRING FOR WALK-IN COOLERS AND FREEZERS ON THE EXTERIOR OF THE BOX WHENEVER POSSIBLE.
26. ELECTRICAL CONTRACTOR TO VERIFY ALL DIMENSIONS AT THE JOB SITE.
27. ELECTRICAL CONTRACTOR TO VERIFY ANY ADDITIONAL ELECTRICAL SERVICES REQUIRED ELSEWHERE IN THE BUILDING FOR ITEMS NOT SHOWN ON THE PLAN, AND FOR N.I.C. ITEMS.
28. ELECTRICAL CONTRACTOR TO USE EXISTING ELECTRICAL SERVICES TO CONNECT NEW AND RE-USED EQUIPMENT, WHEN POSSIBLE, AND TO CAP OFF ANY EXISTING SERVICES MADE OBSOLETE BY THESE PLANS.
29. ELECTRICIAN TO VERIFY TYPE OF CONDUIT THAT MEETS LOCAL BUILDING CODES.
30. ELECTRICIAN TO VERIFY ALL WIRING OF WALK-IN COOLERS/FREEZERS WITH REFRIGERATION CONTRACTOR PRIOR TO INSTALL.
31. ELECTRICIAN TO REFER TO REFRIGERATION OR BUILDING CONDITIONS PLAN FOR ALL CONDUIT LOCATIONS.
32. ELECTRICAL CONTRACTOR TO PROVIDE ALL *FIRE APPROVED POKE THRU'S* AS REQUIRED BY LOCAL CODE FOR ALL CONCRETE PENETRATIONS.
33. ELECTRICAL CONTRACTOR TO CONNECT ALL EXHAUST AND MAKE-UP AIR FANS AND SUPPLY MAGNETIC STARTERS.
34. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL 4/0 BOX AT +48" A.F.F. WITH 1/2" APPROVED CONDUIT AS SHOWN ON PLANS, FOR PULL STATIONS.
35. ELECTRICAL CONTRACTOR TO INTERCONNECT EXHAUST AND MAKE-UP AIR FANS TO SWITCH AT HOOD.
36. ELECTRICIAN TO PROVIDE SERVICE FOR SOUND SYSTEMS, P.O.S. SYSTEMS AND TELEPHONES.
37. ELECTRICIAN TO HOOK-UP HEATER STRIPS AT COLD STORAGE ROOM DOORS AND DRAIN LINES AS REQUIRED.D



RECESSED REMOTE FIRE PROTECTION PULL STATION DETAIL

BOX AND CONDUIT INSTALLED & SECURED BY ELECTRICAL TRADE
FIRE SYSTEM INSTALLATION TO BE BY AUTHORIZED DISTRIBUTOR

REMOTE FIRE SYSTEM PULL DETAIL RFP-1

FOOD SERVICE ELECTRICAL LEGEND

	120 V RECEPTACLE
	HIGH VOLTAGE RECEPTACLE
J	JUNCTION BOX
	DATA CONNECTION
$	SWITCH
F	FIRE PULL STATION

FOR CAPTIVEAIRE KITCHEN HOOD AND ANSUL SYSTEM SEE SHEETS M5.01 TO M5.08.

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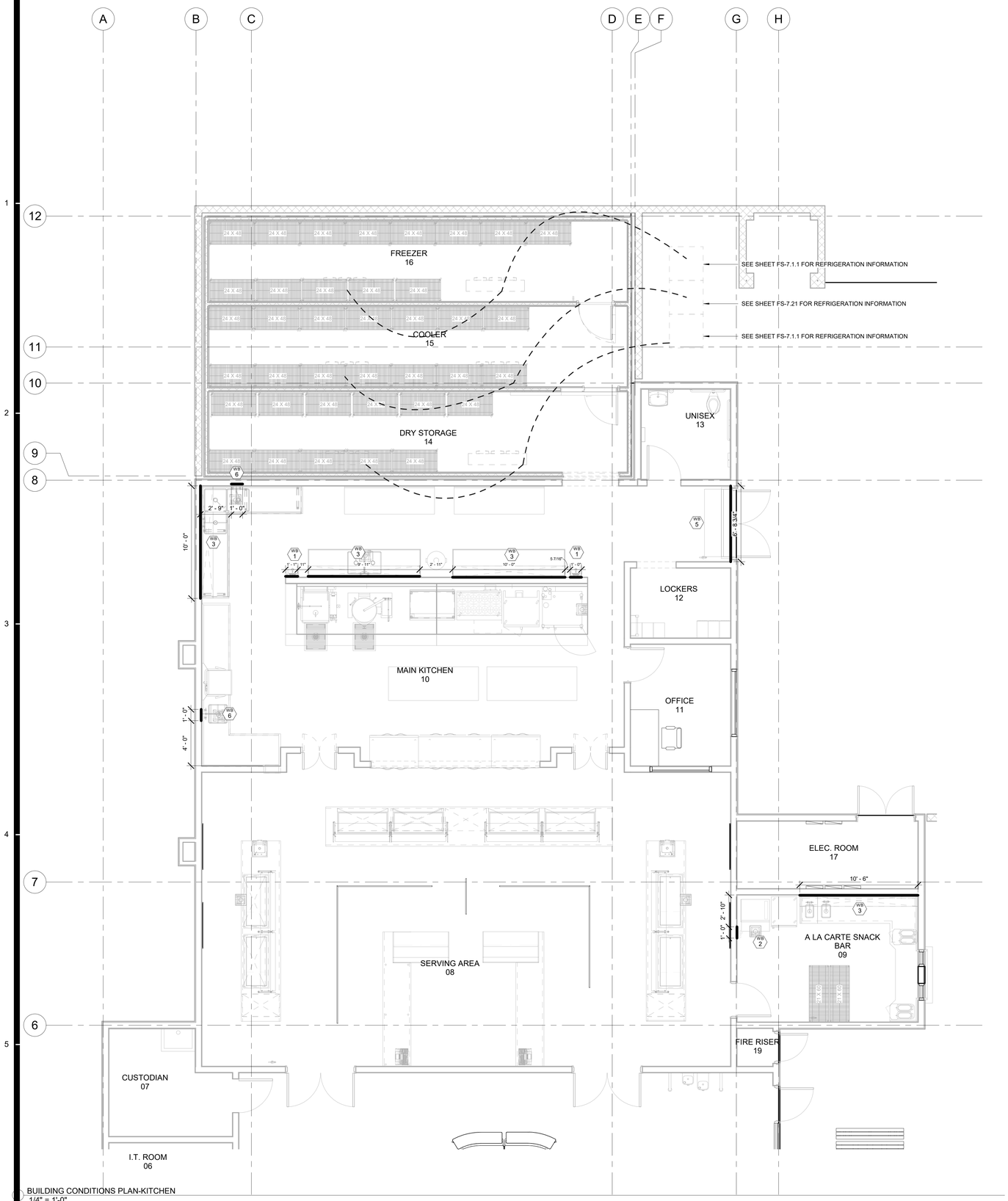
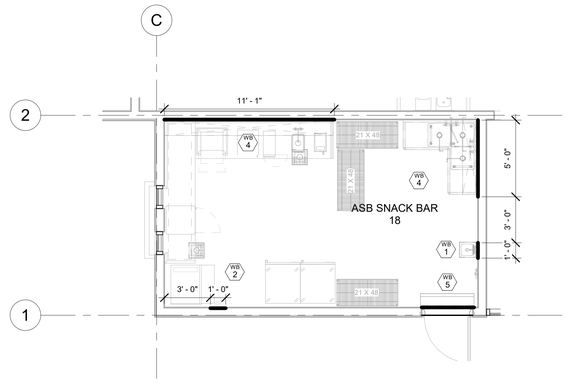


1 BUILDING CONDITIONS PLAN-KITCHEN
1/4" = 1'-0"



2 BUILDING CONDITIONS PLAN- ASB SNACK BAR
1/4" = 1'-0"

WALL BACKING SCHEDULE		
#	DESCRIPTION	HEIGHT
1	HANDSINK	+26" AFF TO 56" AFF
2	WATER FILTER	+72" AFF TO +84" AFF
3	DOUBLE WALL SHELF	+48" AFF TO +78" AFF
4	SINGLE HIGH SHELF	+60" AFF TO +72" AFF
5	AIR CURTAIN	TOP DOOR +24"
6	PRE RINSE	+51" AFF TO +63" AFF

BUILDING CONDITIONS NOTES

GENERAL CONTRACTOR OR EQUIVALENT CONTRACTOR OTHER THAN THE FOOD SERVICE EQUIPMENT CONTRACTOR TO PROVIDE

1. WALL BACKING AS INDICATED ON PLANS.
2. 3"X3"X1/4" ANGLE STEEL SUPPORT SYSTEM (CSS) AT, OR MAXIMUM 18" ABOVE CEILING AT AREAS INDICATED ON PLANS FOR F.S.E.C. TO ATTACH HANGER RODS FOR HOODS OR ATTACH CEILING MOUNTED SHELVES OR POT RACKS.
3. REFRIGERATION RACK PAD OR CURB AS DETAILED AND SIZED ON MANUFACTURER'S SHOP DRAWING, INCLUDING METAL CAP/FLASHING AND PITCH POCKETS.
4. BLOCK OUT SLAB FLOOR TROUGHS AND BACK FILL WITH CEMENT AFTER TROUGHS HAVE BEEN INSTALLED BY PLUMBING CONTRACTOR.
5. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT RUNS FOR SODA OR REFRIGERATION LINES AS INDICATED ON PLANS. CONDUIT TO HAVE A MINIMUM 24" RADIUS (NO FACTORY "L"S). PROVIDE PULL BOXES INSIDE WALLS AS REQUIRED.
6. CONCRETE CURBS FOR EQUIPMENT AS INDICATED ON PLANS. CURBS TO BE LEVEL AND TROWLED SMOOTH. ALL MEASUREMENTS ARE FROM FINISHED FLOOR OR WALLS.
7. ALLOW FOR FINISHED FLOOR WHEN FORMING CURBS.
8. H.V.A.C. CONTRACTOR TO WELD EXHAUST DUCTS AND ATTACH MAKE UP AIR DUCTS TO HOODS.
   A. REFER TO MANUFACTURER'S SHOP DRAWINGS FOR EXACT LOCATIONS AND SIZES OF DUCTS
9. RECESS FLOORS FOR WALK-IN COOLERS AND FREEZERS AS INDICATED ON PLANS. INCLUDING FLOOR INSULATION AND PERIMETER THERMAL BREAKS WHERE INDICATED. PERIMETER THERMAL BREAKS WHERE INDICATED.
   A. REFER TO MANUFACTURER'S SHOP DRAWINGS FOR DIMENSIONS AND DETAILS.
   B. RECESSED FLOORS TO BE LEVEL AND TROWLED SMOOTH.
   C. BACKFILL DEPRESSIONS AFTER WALK-IN BOX HAS BEEN ERECTED.
10. ANY DISCREPANCIES BETWEEN PLANS AND CODE REQUIREMENTS THAT MAY AFFECT THE INSTALLATION, FABRICATION OR OVERALL WORK IN ANY WAY SHALL BE BROUGHT TO THE ATTENTION AF THE FOOD SERVICE EQUIPMENT CONTRACTOR IMMEDIATELY BY THE GENERAL CONTRACTOR, BEFORE START OF CONSTRUCTION
11. FOOD FACILITY REQUIREMENT NOTES AND ALL OTHER NOTES ARE TO BE CONSIDERED A PART OF THESE NOTES. GENERAL CONTRACTOR TO PROVIDE AS THEY APPLY.
12. AND INSTALL A LEVELED PLATFORM ON ROOF FOR COMPRESSOR(S) EXHAUST FAN(S) MAKE-UP AIR ASSEMBLY(S), AND ICE MACHINE CONDENSING UNIT(S). (VERIFY LOCATIONS AT THE JOB SITE).
13. AND INSTALL WEATHERPROOF COVERS FOR REFRIGERATION COMPRESSOR(S) AND ICE MACHINE CONDENSING UNIT(S) LOCATED OUTSIDE AND/OR ON ROOF TO COMPLY WITH EQUIPMENT REQUIREMENTS AND CODE REQUIREMENTS.
14. AND INSTALL ROOF JACKS AND SLEEVES FOR REFRIGERATION AND ICE MACHINE LINES PENETRATING THROUGH ROOF AND/OR WALLS. (VERIFY LOCATIONS WITH REFRIGERATION CONTRACTOR AT THE JOB SITE)

FOR CAPTIVEAIRE KITCHEN HOOD AND ANSUL SYSTEM SEE SHEETS M5.01 TO M5.08.

AGENCY

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FLEWELLING & MOODY
architects *for* education

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phone: (805) 963-3016 or (800) 480-9418
fax: (805) 562-5915 email: cad@kamranco.com
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AZ ROC112017 BE NV C26A:42022 NV C21A:52465

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Owner

ROSAMOND HS

2925 WEST ROSAMOND BLVD
ROSAMOND, CA

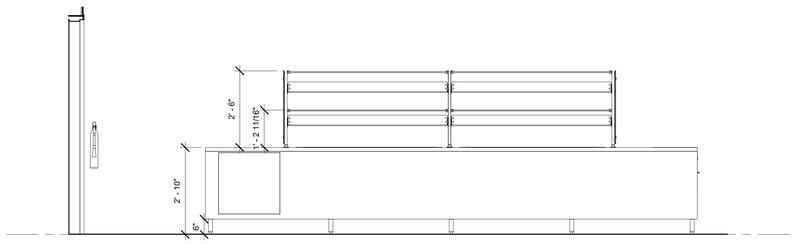
Drawing Title

BUILDING CONDITIONS

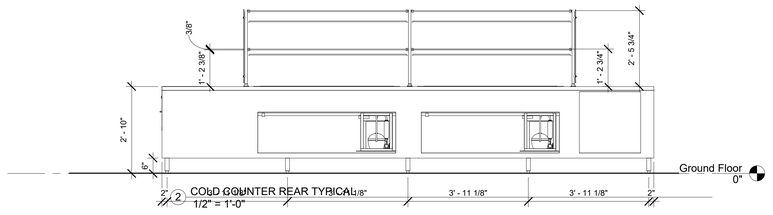
Job No.
Project Number

Sheet No.
FS-5.0

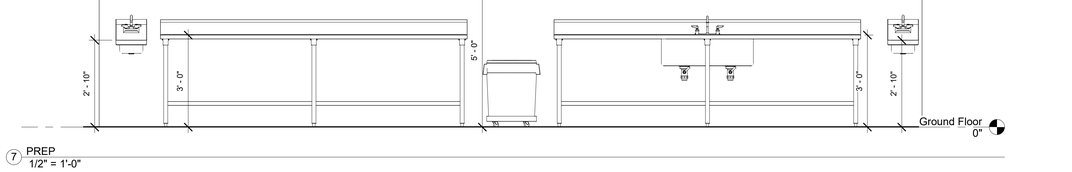
Date
Issue Date



1 COLD COUNTER FRONT TYPICAL
1/2" = 1'-0"

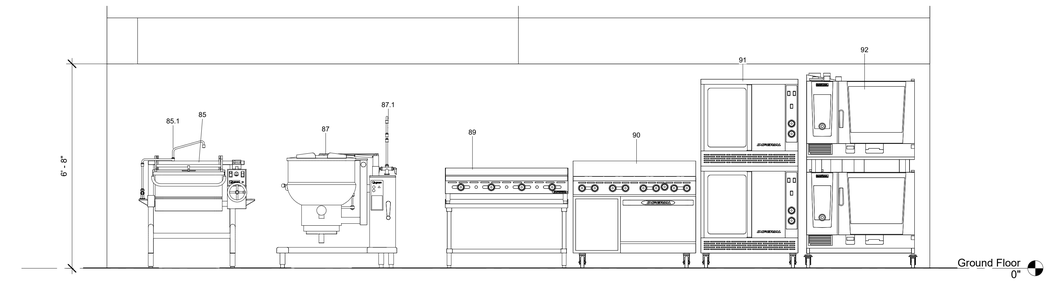


2 COLD COUNTER REAR TYPICAL
1/2" = 1'-0"

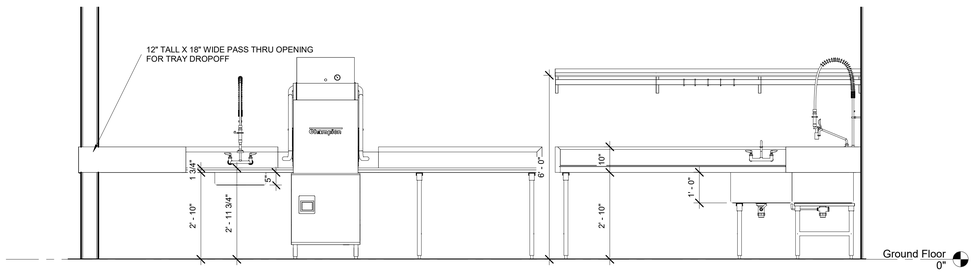


3 SERVERY REPLENSHMENT
1/2" = 1'-0"

4 HOT COUNTER
1/2" = 1'-0"



5 COOKLINE
1/2" = 1'-0"



6 SCULLERY
1/2" = 1'-0"

7 PREP
1/2" = 1'-0"

FOR CAPTIVEAIRE KITCHEN HOOD AND ANSUL SYSTEM SEE SHEETS M5.01 TO M5.08.

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ROSAMOND HS

2925 WEST ROSAMOND BLVD
ROSAMOND, CA

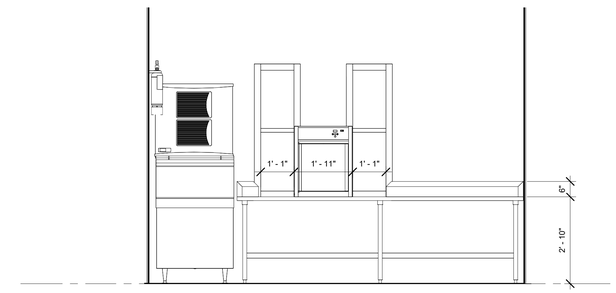
Drawing Title

ELEVATIONS

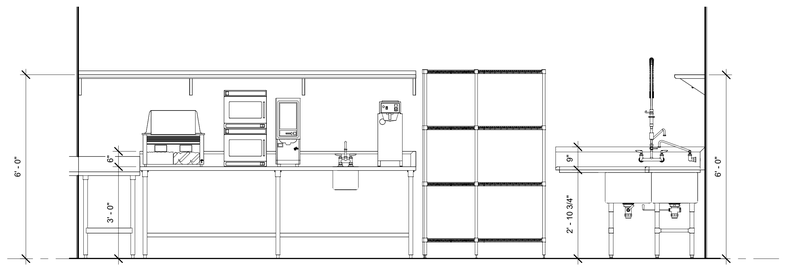
Job No.
Project Number

Sheet No.
FS-6.0

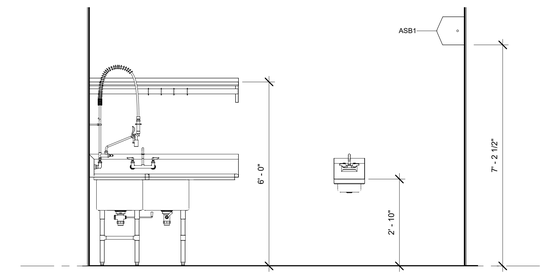
Date
Issue Date



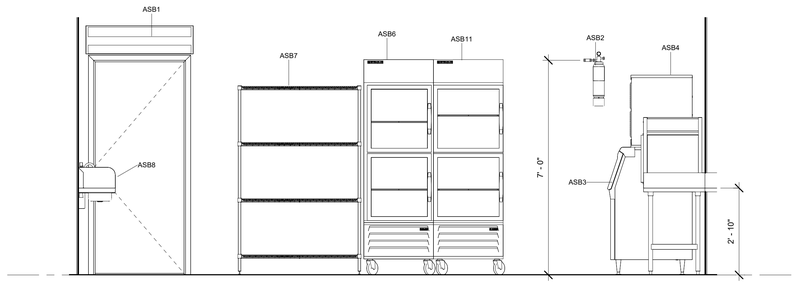
1 ASB SNACK BAR 1
1/2" = 1'-0"



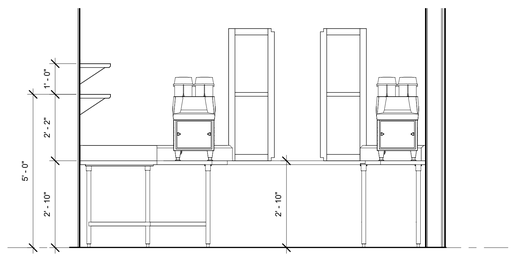
2 ASB SNACK BAR 2
1/2" = 1'-0"



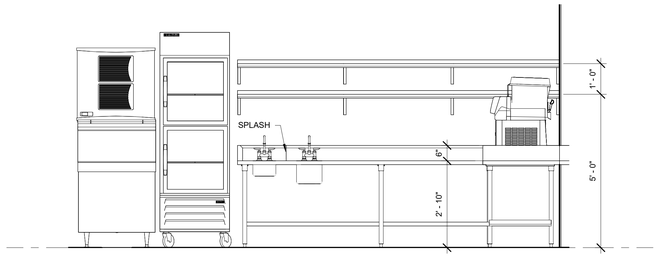
3 ASB SNACK BAR 3
1/2" = 1'-0"



4 ASB SNACK BAR 4
1/2" = 1'-0"



5 A LA CARTE SNACK BAR 1
1/2" = 1'-0"



6 A LA CARTE SNACK BAR 2
1/2" = 1'-0"

FOR CAPTIVEAIRE KITCHEN HOOD AND ANSUL SYSTEM SEE SHEETS M5.01 TO M5.08.

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Owner

ROSAMOND HS

2925 WEST ROSAMOND BLVD
ROSAMOND, CA

Drawing Title

ELEVATIONS

Job No.
Project Number

Sheet No.
FS-6.1

Date
Issue Date

INDEX OF DRAWINGS				
EVERIDGE DRAWING NUMBER	EVERIDGE DRAWING NUMBER	DRAWING REVISION	FIELD WORK	CONSTRUCTION TYPE
127526CS	COVER SHEET			
127526	UNIT DRAWING			
127526DIM	UNIT DIMENSIONS			
127526ED	ELEVATION DETAIL			
127526WL	WALL LOADS			5B
127526FL	FLOOR LOADS			5B
127526WO	WALL OPENING DETAILS			5B
127526RCD	ROOF CONSTRUCTION			5B
127526TTD	TIE DOWN DETAIL		*	5B
127526LD	LIGHTING DETAIL		*	5B
127526RFD	ROOF FLASHING DETAIL		*	5B
127526CWF	COMMON WALL FLASHING		*	5B

NOTES:
1. THESE UNITS ARE DESIGNED IN ACCORDANCE WITH THE 2019 CBC PER ASCE-16, 2018 IMC 2017 NATIONAL ELECTRIC CODE, IECC SECTION C403.10.1.
2. WALK-IN FREEZER/COOLERS COMPLY WITH THE ENERGY INDEPENDENCE AND SECURITY ACT OF 2007 EISA SECTION 312 WALK-IN FREEZER/COOLERS
3. ICS WALK-IN FREEZER/COOLER ARE REGISTERED WITH THE DEPARTMENT OF ENERGY COMPLIANCE R-VALUE REQUIREMENTS BASED ON THE EISA 2007 SECTION 312.
4. UNITS SHALL HAVE A FIRE SEPARATION DISTANCE OF MORE THAN 15 FEET TO PROPERTY LINES OR INTERIOR LOT LINES.
5. THESE UNITS ARE NOT DESIGNED TO BE LOCATED IN FLOOD PRONE AREAS.
6. WIND LOAD DESIGN CONFORMS TO 2019 CBC AT 105 V-ult/81.3 V-asd, IMPORTANCE FACTOR 1.0, EXPOSURE C.
7. 2019 CBC PER ASCE-16 SEISMIC CLASSIFICATION GROUP 1 DESIGN CATEGORY D
8. ICS WALK-IN STORAGE UNITS MAY BE ATTACHED TO CUSTOMERS BUILDING WITH A COMMON WALK THROUGH OPENING BETWEEN THE CUSTOMERS BUILDING AND THE ICS WALK-IN UNIT.
9. ICS WALK-IN STORAGE UNITS WITH AN AGGREGATE FLOOR AREA NOT EXCEEDING 400 SQUARE FEET SHALL NOT REQUIRE AN AUTOMATIC FIRE SUPPRESSION SYSTEM.
10. THIS BUILDING DOES NOT CONTAIN PLUMBING FACILITIES. PLUMBING FACILITIES SHALL BE PROVIDED ON SITE SUBJECT TO THE LOCAL AUTHORITY HAVING JURISDICTION.
11. ICS WALK-IN STORAGE UNITS WITH AN AGGREGATE FLOOR AREA EXCEEDING 400 SQUARE FEET SHALL REQUIRE AN AUTOMATIC FIRE SUPPRESSION SYSTEM SUPPLIED BY CUSTOMER.
12. * INDICATES THOSE DRAWINGS WHICH CONTAIN WORK DONE IN THE FIELD.
13. ICS WALK-IN UNITS CONSTRUCTION CATEGORY (USE GROUP S-2, CONSTRUCTION TYPE 5B)
14. # INDICATES DRAWINGS THAT HAVE BEEN REVISED 15.

ALLOWABLE UNIT LOADS - PSF

4" REINFORCED FLOOR	10000 PSF
WALL	SEE DRAWING FS-7.6 127526WL
ROOF	SEE DRAWING FS-7.7 127526RCD

THIS DRAWING IS THE PROPERTY OF INTERNATIONAL COLD STORAGE. IT IS NOT TO BE ALTERED OR DISTRIBUTED TO OTHERS WITHOUT THE WRITTEN APPROVAL OF INTERNATIONAL COLD STORAGE.

ADDITIONAL UNIT NOTES.
UNIT IS DESGIN TO MEET THE FOLLOW CRITERIA
2019 CALIFORNIA BUILDING CODE
ASCE 7-16 MINIMUM DESIGN LOADS
1. ROOF LIVE LOAD 20 PSF
   ROOF TYPE MONO-SLOPE
2. WIND DESIGN DATA (1603-1.4 CBC)
   WIND SPEED (3-SEC GUST) =105 MPH (ULTIMATE WIND SPEED)
   WIND IMPOTANCE FACTOR = 1.0.
   EXPOSURE CATEGORY: = C
3. EARTHQUAKE DESIGN DATA (1603.1.5 CBC)
   SEISMIC IMPORTANCE FACTOR I= 1.25
   SEISMIC RISK CATEGORY: III
   SOIL SITE CLASS:
   MAPPED SPECTRAL RESPONSE ACCELERATIONS (S_S= 1.097g & S1 = 0.435g)
   SOIL DESIGN CATEGORY = D
   SPECTRAL RESPONSE COEFFICIENTS, S_{DS}=0.776g
   SEISMIC DESIGN CATEGORY = D

OCCUPANCY TYPE: S-2
CONSTRUCTION TYPE: 5-B
ROOF LIVE LOAD: 20 PSF

ADDITIONAL UNIT NOTES
THIS BUILDING MEETS THE ENERGY REQUIREMENTS IN THE CEC 2019 120.6
AS BASED ON THE TEST PROVIDED.
UL LISTED COMMERCIAL WALK-IN FILE SA7966
UL LISTED COMMERCIAL DOOR PANEL FILE E80497

MODEL NUMBERS
THE MODEL NUMBER IS AN ALPHA/NUMERIC DESIGNATION. THE ALPHA PORTION AT THE BEGINNING OF THE MODEL NUMBER DESCRIBES THE CONSTRUCTION AND REFRIGERATION OF THE UNIT. ALPHA CODES ARE AS FOLLOWS:

IB - SINGLE COMPARTMENT BUILDING THE NUMERICAL PORTION OF THE MODEL NUMBER DESCRIBES THE APPROXIMATE OUTSIDE DIMENSIONS OF THE BUILDING. THE WIDTH, THE SHORTEST DIMENSION, IS SPECIFIED FIRST, FOLLOWED BY THE LENGTH. IF BUILDING DIMENSIONS ARE NOT IN WHOLE FOOT INCREMENTS THE NEXT HIGHER WHOLE FOOT IS USED FOR MODEL NUMBERS.

IB	838
I	INJECTAFOAM
B	SINGLE COMPARTMENT AMBIENT TEMPERATURE WALK-IN
8	WIDTH IN WHOLE FOOT INCREMENTS
38	LENGTH IN WHOLE FOOT INCREMENTS

STRUCTURAL CAPACITY OF UNITS ARE BASED ON SIZE, NUMBER OF COMPARTMENTS, SITE SPECIFIC WIND, SEISMIC AND GROUND SNOW LOADING PER IBC 2018. PROFESSIONAL ENGINEERING CONSULTANTS, P.A. CALCULATION PROGRAM FOR ICS CALCULATES THE WIND PRESSURES (PSF) ON THE UNIT BASED ON THE 3 SECOND GUST. IT ALSO CALCULATES THE MAXIMUM ROOF SNOW DRIFT LOAD BASED UPON THE EXISTING ADJACENT BUILDING HEIGHT AND GROUND SNOW. THE PROGRAM COMPARES THE COMPUTED VALUES FOR THE SPECIFIC SITE WITH THE ALLOWABLE LOADS FOR THE UNIT PANELS BASED UPON TESTING VALUES PER PFS LABORATORY SERVICES REPORT NO. #09-92.

EVERIDGE, LLC /dba INTERNATIONAL
COLD STORAGE 215 E. 13TH STREET
ANDOVER, KANSAS 67002

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ICS-127526CS

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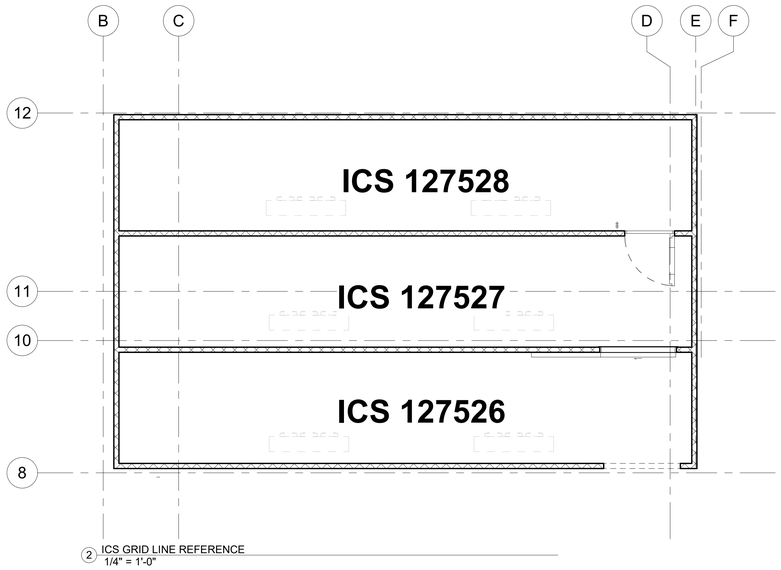
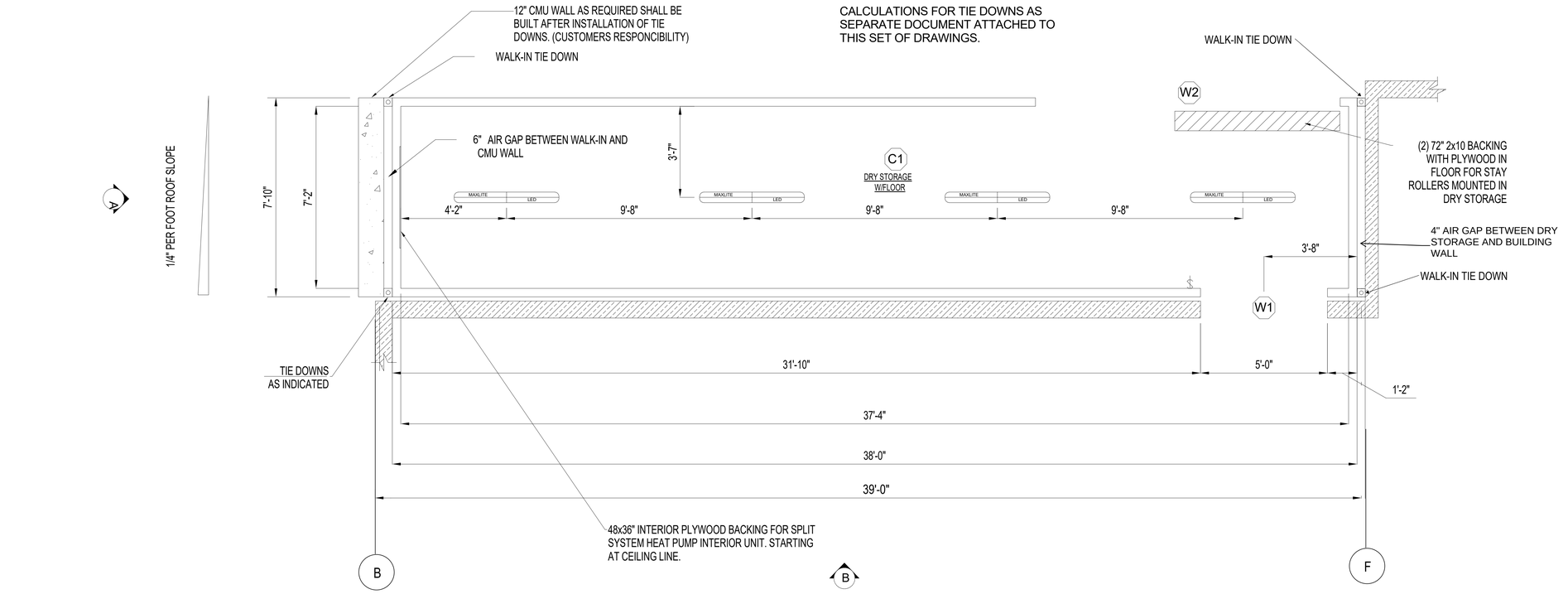
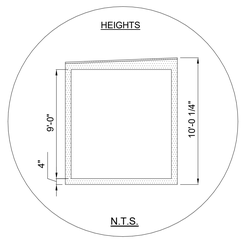


2 ICS GRID LINE REFERENCE
1/4" = 1'-0"

2 / FS-7.13 ICS-127527

CALCULATIONS FOR TIE DOWNS AS SEPARATE DOCUMENT ATTACHED TO THIS SET OF DRAWINGS.





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Sheet No.
FS-7.1
ICS-127526

Job Name/Location:

Date:

PO No.:

For ☐ File ☐ Resubmit ☐ Approval Other

Architect: GC:

Engr: Mech:

Rep: (Company) (Project Manager)

Tag No.:

LS363HLV3

Single Zone Extended Piping Wall Mount

Outdoor Unit (ODU) - LSU363HLV3, Indoor Unit (IDU) - LSN363HLV3

LG Life's Good

Performance:

Cooling:

Cooling Capacity (Min~Rated~Max) (Btu/h)	3,070~33,000~34,000
SEER	18.5
EER	10

SEER - Seasonal Energy Efficiency Ratio EER - Energy Efficiency Ratio

Heating:

Heating Capacity (Min~Rated~Max) (Btu/h)	3,070~35,200~38,900
HSPF	11
Max. Heating @ Indoor 70°F DB	
Outdoor 19°F DB / 17°F WB	35,740 (102%)
Outdoor 6°F DB / 5°F WB	30,890 (88%)
Outdoor -3°F DB / -4°F WB	26,820 (76%)

HSPF - Heating Seasonal Performance Factor

Cooling Nominal Test Conditions: Heating Nominal Test Conditions:
Indoor: 80°F DB / 67°F WB Indoor: 70°F DB / 60°F WB
Outdoor: 95°F DB / 75°F WB Outdoor: 47°F DB / 43°F WB

Outdoor Unit:

MOP (A)	30
MCA (A)	23
Cooling / Heating Rated Amps (A)	15.35
Compressor (A)	15.1
Fan Motor (A)	0.25

MOP - Maximum Overcurrent Protection MCA - Minimum Circuit Ampacity

Total Power Input:

Cooling Power Input (kW)	3.3
Heating Power Input (kW)	3.12

Piping:

Liquid Line (in., O.D.)	ø3/8 Flare
Vapor Line (in., O.D.)	ø5/8 Flare
Additional Refrigerant (oz./ft.)	0.38
Min. / Max. Pipe Length (ft.)[2]	9.8 / 164
Piping Length (no add'l refrig., ft.)	24.6
Max. Elevation (ft.)	98.4

Features:

- 24-Hour on/off timer
- 4-Way auto swing
- Auto changeover
- Auto restart
- Jet cool/Jet heat
- Built-in low ambient standard, down to 14°F (cooling mode)
- Condensate Sensor Connection
- Inverter (variable speed compressor)
- Smart Diagnosis
- Washable Filter
- Self-cleaning indoor coil
- Built-in drain pan heater
- Built-in Wi-Fi via Smart ThinQ app

Optional Accessories:

☐ Low Ambient Wind Baffle (Cooling operation to 0°F) - ZLABGP04A
☐ Simple Remote Controller - PREMTC00U
☐ Premium Remote Controller - PREMTA000
☐ MultiSITE™ CRC1 - PREMTBVC0
☐ MultiSITE CRC1+ - PREMTBVC1
☐ MultiSITE Comm. Mgr. - PBACNBTR0A
☐ PI-485 - PMNFP14A1
☐ Dry Contact - PDRYCB100/300/400
☐ AC Smart 5 - PACS5A000
☐ ACP 5 - PACP5A000

Operating Range:

Outdoor Unit:

Cooling (°F DB)	14 ~ 118
Heating (°F WB)	-4 ~ +65

Indoor Unit:

Cooling (°F WB)	53 ~ 75
Heating (°F DB)	64 ~ 86

Electrical:

Power Supply (V/Hz/Ø)	208-230/60/1

System Data:

Refrigerant Type	R410A
Refrigerant Control	EEV
Refrigerant Charge (lbs.)	5.291
ODU Sound Pressure (Cooling / Heating) (±1 dB[A])[3]	55 / 58
IDU Sound Pressure Cooling (H/M/L/Sleep) (±1 dB[A])[3]	51 / 47 / 43 / 33
Heating (H/M/L) (±1 dB[A])[3]	51 / 47 / 43
ODU Net / Shipping Weight (lbs.)	147.9 / 160.3
IDU Net / Shipping Weight (lbs.)	40.8 / 48.9
Heat Exchanger Coating	GoldFin™

Fan:

ODU Type	Propeller
IDU Type	Cross Flow
Fan Speeds (Fan/Cool/Heat)	6 / 6 / 6
Quantity (ODU + IDU)	1 + 1
Motor/Drive	Brushless Digitally Controlled/Direct
ODU Max. Air Flow Rate (CFM)	2,295
IDU Air Flow	
Cooling, Max/H/M/L (CFM)	1,095 / 883 / 742 / 601
Heating, Max/H/M/L (CFM)	1,166 / 954 / 813 / 671
Dehumidification (pts./hr.)	5.49

Notes:

1. Acceptable operating voltage: 187V-253V.
2. Refer to Piping Manual.
3. Sound Pressure levels are tested in an anechoic chamber under ISO Standard 3745.
4. All communication / connection (power) cable from the outdoor unit to the indoor unit is field supplied and must be a minimum of four-conductor, 14 AWG, stranded, shielded or unshielded (if shielded, it must be grounded to the chassis of the outdoor unit only), and must comply with applicable local and national codes.
5. The indoor unit power supply is provided by the outdoor unit.
6. Power wiring cable size must comply with the applicable local and national code.
7. The indoor unit comes with a dry helium charge.
8. ODU Max. Height: 3,281 ft. above sea level, with 24.6 ft. of refrigerant line and a 0 ft. level difference between outdoor and indoor units.
9. Must follow installation instructions in the applicable LG installation manual.

For a complete list of available accessories, contact your LG representative.
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Job Name/Location:

LS363HLV3

Single Zone Extended Piping Wall Mount

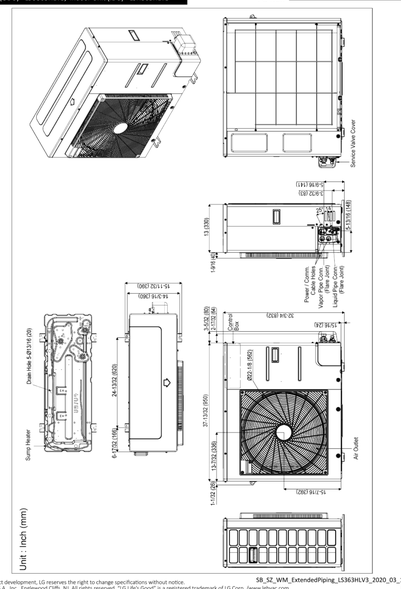
Outdoor Unit (ODU) - LSU363HLV3, Indoor Unit (IDU) - LSN363HLV3

LG Life's Good

Tag No.:

Date:

PO No.:



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Job Name/Location:

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Single Zone Extended Piping Wall Mount

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LG Life's Good

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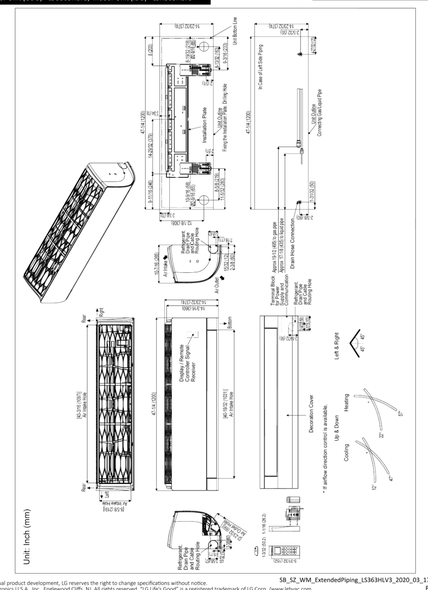

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Ren. Date 08/31/2025
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ROSAMOND HS

2925 WEST ROSAMOND BLVD
ROSAMOND, CA

Drawing Title

FABRICATION DRAWINGS ICS

Job No.
Project Number

Sheet No.
FS-7.1.1
ICS-127526HP

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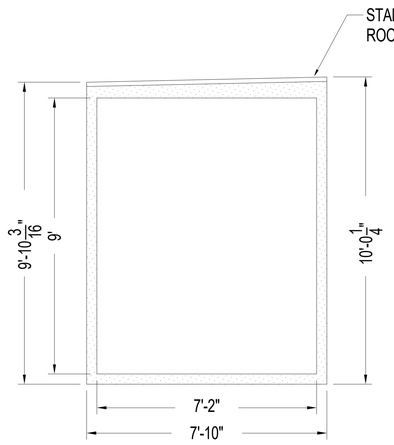
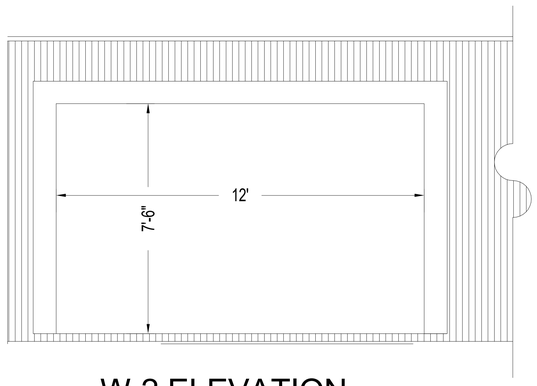
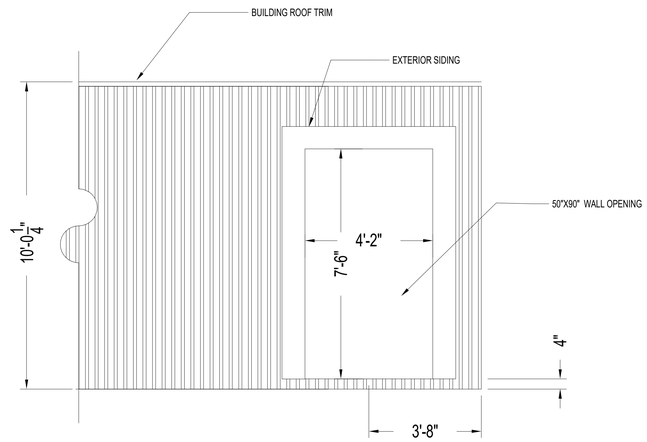
ICS-127526DIM



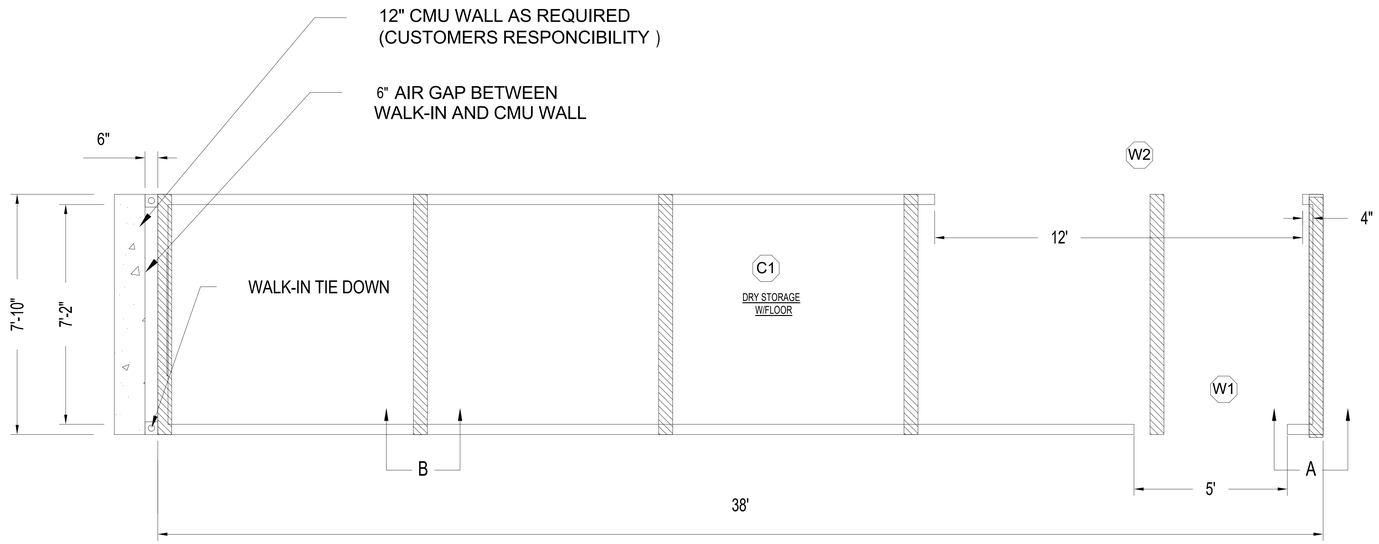
END SECTION VIEW



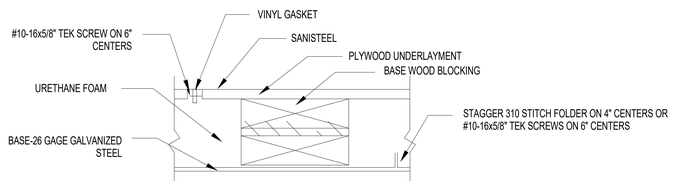
W-2 ELEVATION



W-1 ELEVATION

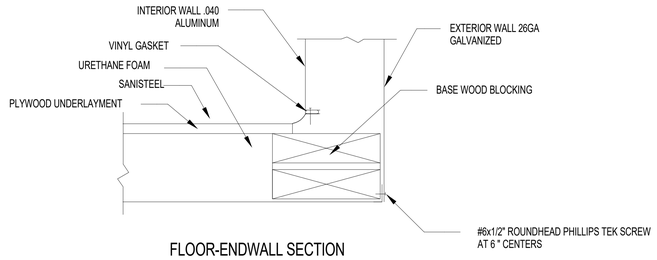


PLAN VIEW



TYPICAL FLOOR SECTION
ALONG LENGTH

B - B



FLOOR-ENDWALL SECTION
ALONG LENGTH

A - A

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ROSAMOND HS

2925 WEST ROSAMOND BLVD
ROSAMOND, CA

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Job No.
Project Number

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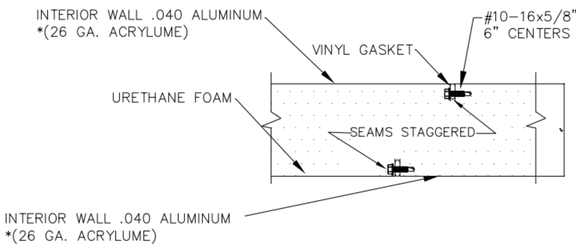
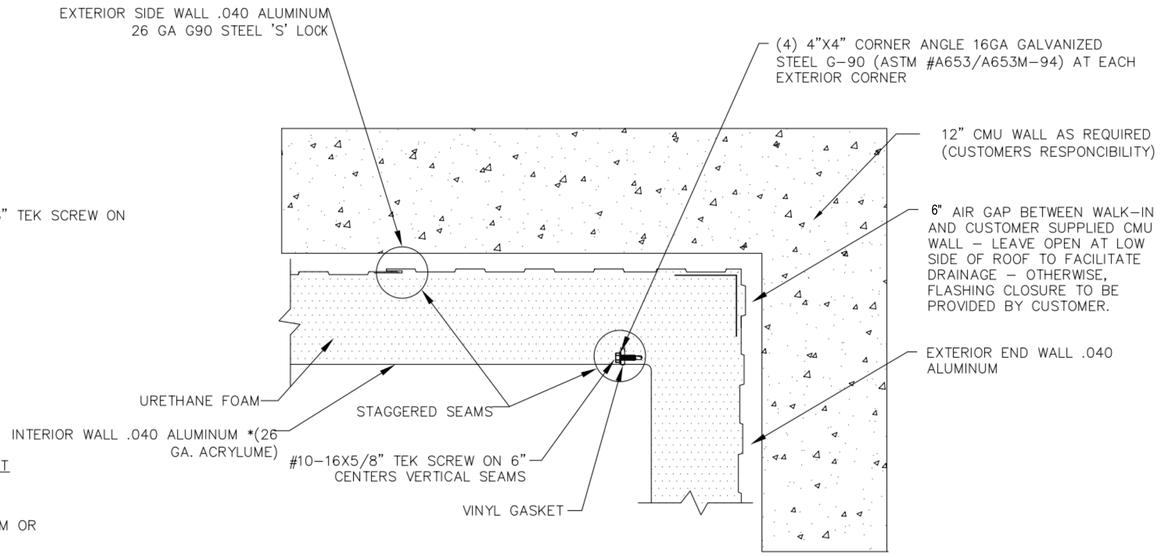
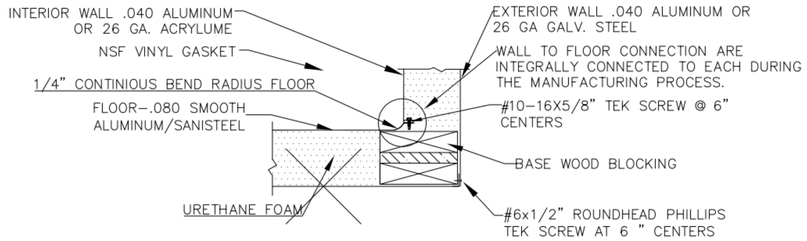
FS-7.3
ICS-127526ED



TYPICAL HORIZONTAL SECTION AT
INTERIOR DIVIDING WALL



TYPICAL HORIZONTAL SECTION
AT EXTERIOR WALL



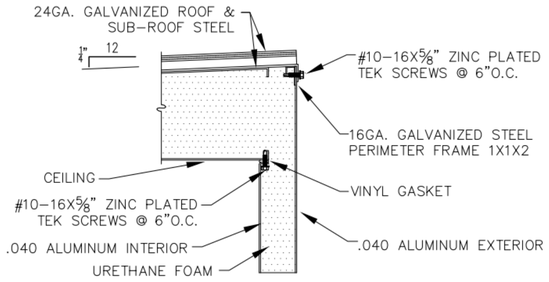
FLOOR WALL SECTION

ALLOWABLE WALL LOADS

HEIGHT	LATERAL LOAD	AXIAL LOAD
9'–0"	61.8 PSF	29.0 PSI

NOTES:

1. MOUNT CONDENSING UNIT TO SUPPORT CHANNELS WITH FOUR 3/8" HEX HEAD BOLTS.
2. CONDENSING UNIT CONNECTION CAPABLE OF WITHSTANDING 140 MPH WINDS IN
3. EXPOSURE C IN ACCORDANCE WITH ASCE 7–16 WIND STANDARD.
4. 22 GAGE GALVALUME MAY BE SUBSTITUTED FOR THE .040 ALUMINUM WALLS AND 22 GAGE STAINLESS STEEL MAY BE SUBSTITUTED FOR THE .040 ALUMINUM WALLS.



ROOF TO WALL SECTION

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ROSAMOND, CA

Drawing Title

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Job No.
Project Number

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FS-7.4
ICS-127526WL

Date
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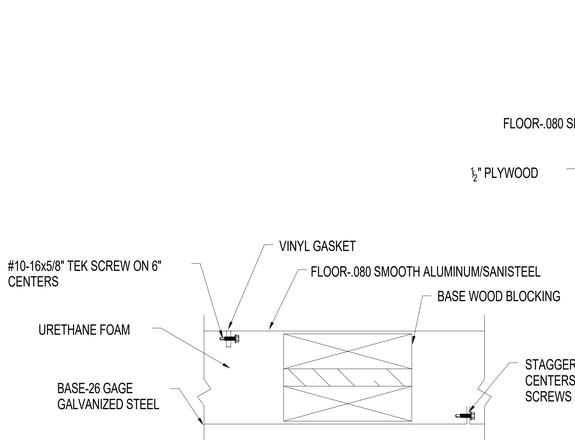
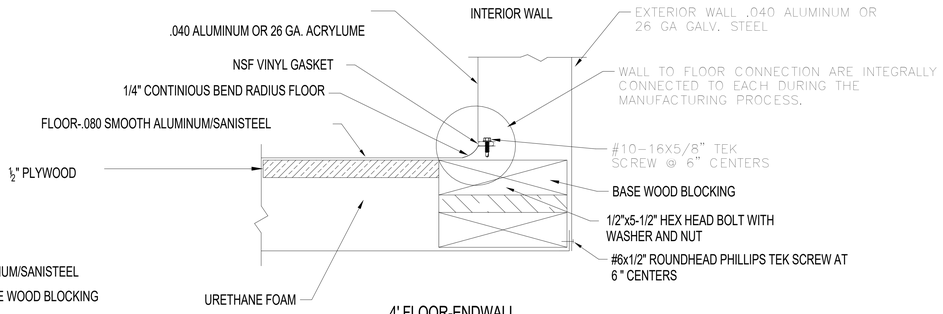
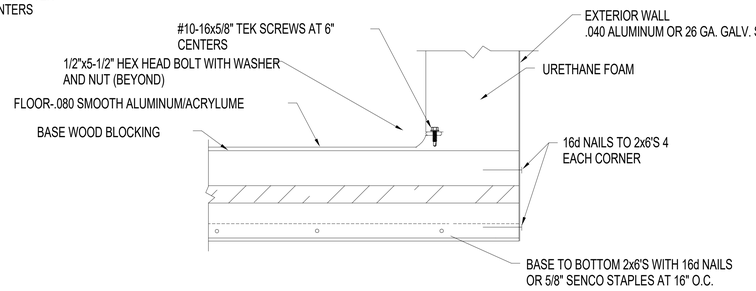


TYPICAL FLOOR SECTION
ALONG LENGTH



4' FLOOR-ENDWALL
SECTION ALONG LENGTH



FLOOR-ENDWALL
SECTION ALONG WIDTH

NOTES:

1. SKIDS ARE SECURED TO BASE WOOD BLOCKING WITH 1/2"x3" LAG SCREWS EXCEPT AT TRANSPORT CONNECTIONS WHERE 1/2"x5-1/2" BOLTS ARE USED. SKIDS ARE USED FOR TRANSPORT AND REMOVED ONCE ON SITE.
2. TOP 2x6 OF BASE WOOD BLOCKING MAY HAVE ONE SPLICE.
3. BASE WOOD BLOCKING CONSISTS OF TWO 2x6'S SYP#2, SPF#1 WITH 3/4" CDX PLYWOOD, WITH 16d NAILS ON 12" CENTERS STAGGERED.
4. BASE WOOD BLOCKING AT EACH END AND AT MAXIMUM 12' SPACING ALONG BUILDING LENGTH.
5. .080 ALUMINUM, .125 ALUMINUM, 18 GAGE STAINLESS STEEL OR SANISTEEL MAY BE USED AS FLOORING MATERIAL 22 GAGE GALVALUME MAY BE SUBSTITUTED FOR THE .040 ALUMINUM WALLS AND 22 GAGE STAINLESS STEEL MAY BE SUBSTITUTED FOR THE .040 ALUMINUM WALLS.

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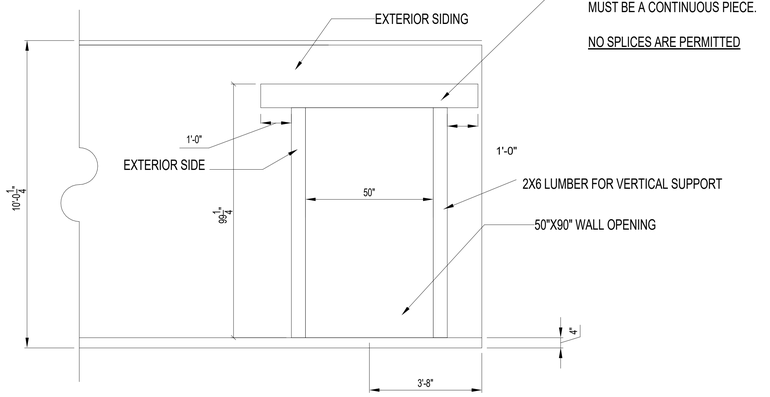
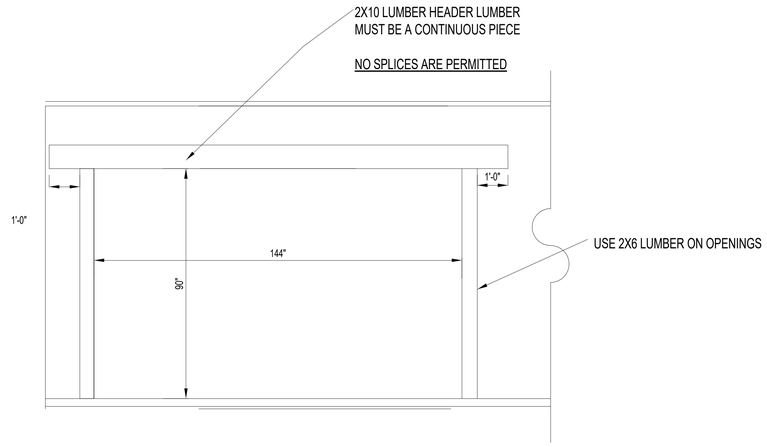


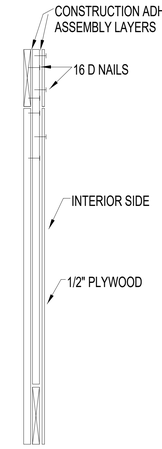
W1 - FRONT VIEW



W2 - REAR VIEW

NOTES:

1) WALL OPENING TO BE FRAMED WITH LUMBER BASED ON OPENING SIZE. HEADER BEAMS ARE TO BE CONSTRUCTED AS SOLID PIECES NO SPLICES ARE PERMITTED.
2) HEADER LUMBER TO EXTEND PAST THE VERTICAL SUPPORT BY 12".
3) 1/2" PLYWOOD TO BE NOTCHED TO ACCEPT WALL FLANGES. (1/2" FLANGES WERE REQUIRED) WHERE NECESSARY.
4) CONSTRUCT FRAME WITH LAP JOINTS AT CORNERS AS SHOWN. USE 16D NAILS AND CONSTRUCTION ADHESIVE.



SIDE DETAIL

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661.949.0771 FAX 661.949.2843
E-Mail: fm-lancaster@flewelling-

An Employee Owned Corporation

ARCHITECT

LICENSED ARCHITECT
C—26053
Ren. Date 08/31/2025
STATE OF CALIFORNIA

CONSULTANT

KAMRAN AND COMPANY, INC.
FOOD SERVICE EQUIPMENT
411 East Montecito Street
Santa Barbara, California 93101
phone: (805) 963-3016 or (800) 480-9418
fax: (805) 562-5915 email: cad@kamranco.com
CA B C61/D34:687988 CA C38:689064
AZ ROC112017 BE NV C26A:42022 NV C21A:52465

Drawn by:

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Revisions

No.	Date	Description

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Owner

ROSAMOND HS

2925 WEST ROSAMOND BLVD
ROSAMOND, CA

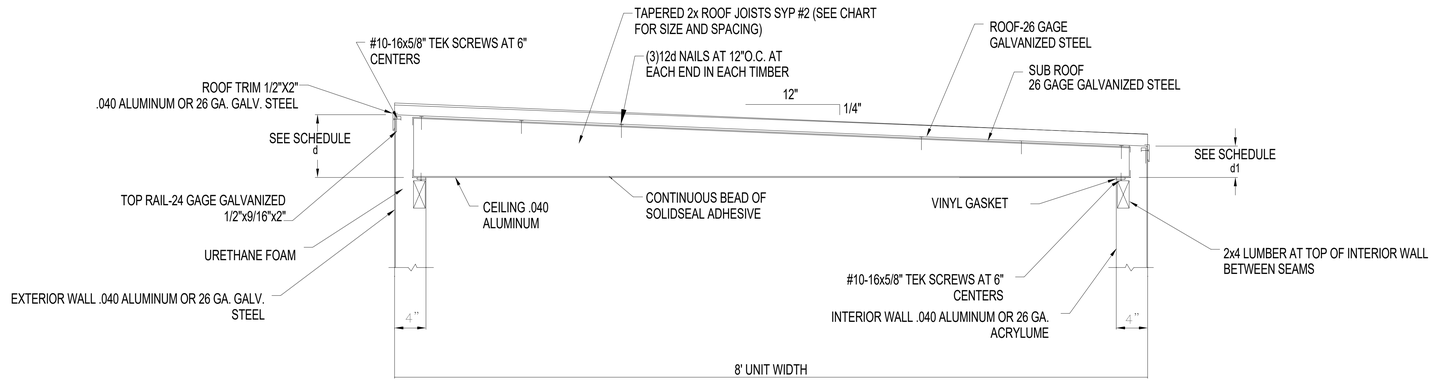
Drawing Title

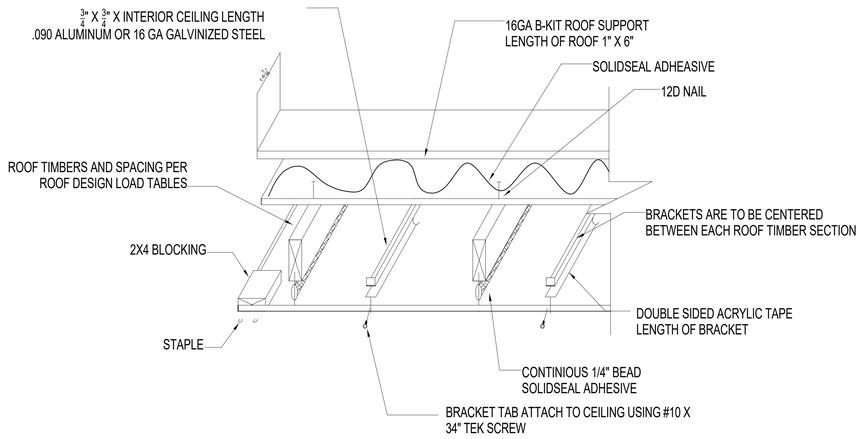
FABRICATION DRAWINGS ICS

Job No.
Project Number

Date
Issue Date

Sheet No.
FS-7.6
ICS-127526WO





26 GA. GALV. STEEL ROOF & .040 ALUM. CEILING

ALLOWABLE UNIFORM ROOF LOAD SCHEDULE

UNIT WIDTH	L (IN)	d1 (IN)	d2 (IN)	d (IN)	SELECTED MEMBER	ROOF JOISTS SPACING 24" CTRS
8'	91"	4.50"	2.00"	6.50"	2x8	219 PSF

ALLOWABLE LOADS ARE BASED ON COMPOSITE ANALYSIS COMPARED WITH TESTED ADHESION VALUES WITH 26 GA. GALVANIZED STEEL ON EXTERIOR AND .040 ALUMINUM SKIN ON THE INTERIOR.

NOTES:

1. LUMBER SHALL HAVE NO LOOSE KNOTS WITHIN 2" OF SAWN EDGE AND NO KNOTS LARGER THAN 1-1/2" DIAMETER WITHIN 1" OF SAWN EDGE.
2. MAXIMUM SPACING TO FIRST ROOF JOIST FROM INSIDE FACE OF PARALLEL WALL NOT TO EXCEED JOIST SPACING AT SCHEDULE.
3. 22 GAGE GALVALUME MAY BE SUBSTITUTED FOR THE .040 ALUMINUM WALLS. 22 GA. STAINLESS STEEL MAY BE SUBSTITUTED FOR THE .040 ALUMINUM WALLS.

AGENCY

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SS ☑ FLS ☑ ACS ☑
DATE: 03/24/2023

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ROSAMOND HS

2925 WEST ROSAMOND BLVD
ROSAMOND, CA

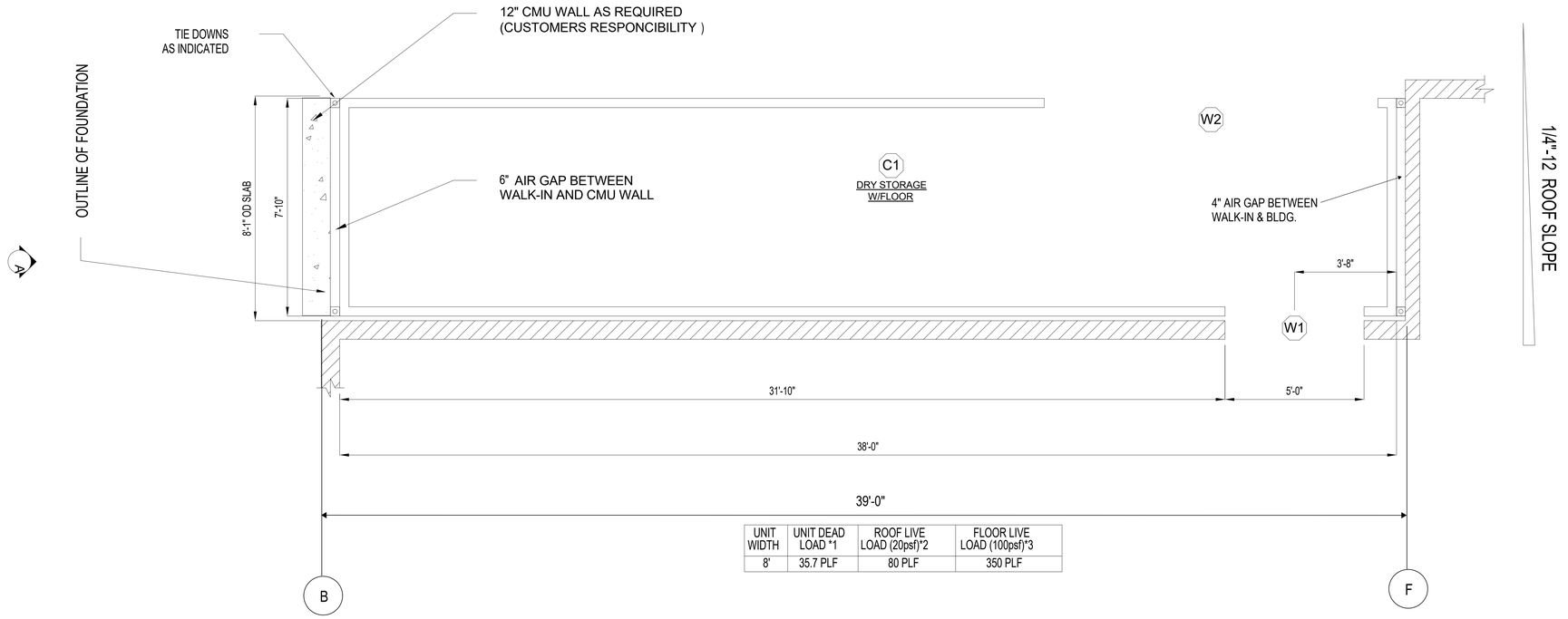
Drawing Title

FABRICATION DRAWINGS ICS

Job No.
Project Number

Sheet No.
FS-7.7
ICS-127526RCD

Date
Issue Date

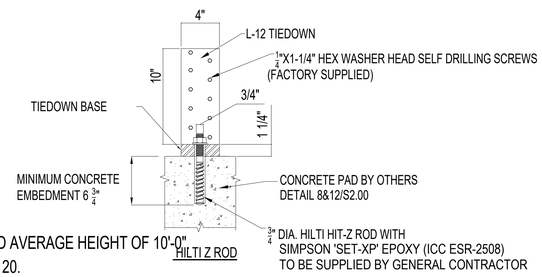


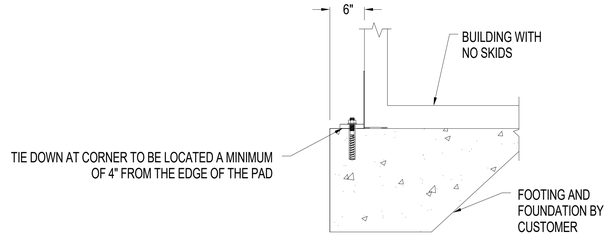
UNIT WIDTH	UNIT DEAD LOAD *1	ROOF LIVE LOAD (20psf)*2	FLOOR LIVE LOAD (100psf)*3
8'	35.7 PLF	80 PLF	350 PLF

FOUNDATION NOTES:

1. 3000 PSI MINIMUM COMPRESSIVE STRENGTH CONCRETE AT 28 DAYS.
2. MINIMUM SOIL BEARING CAPACITY SHALL BE 1500 PSF.
3. INSTALLATION OF FOUNDATION IS RESPONSIBILITY OF CUSTOMER.
4. FINISH EDGES OF SLAB WITH 1/8" SLOPE FROM BUILDING TO EDGE.
5. WHEN ICS STORAGE UNIT IS ADJACENT TO ANOTHER BUILDING REDUCE OVERALL WIDTH BY 6".
6. 8" MINIMUM CONCRETE DEPTH REQUIRED AT TIE DOWN.
7. MINIMUM OF FOUR TIE DOWNS REQUIRED PER BUILDING. INSTALL AT CORNERS OF EACH END WALL. SEE APPENDIX C FOR NUMBER OF REQUIRED TIE DOWNS.
8. FOUNDATIONS/FOOTINGS BELOW FROSTLINE ARE REQUIRED FOR ALL BUILDING DESIGNS.
9. FOOTINGS AND CONCRETE PADS ARE TO BE DESIGN TO MEET LOCAL SITE SPECIFIC CONDITIONS BY A QUALIFIED ENGINEER OR ARCHITECT.

FIELD WORK ALL DETAILS THIS SHEET ARE BY OWNER.





*1 DEAD LOADS ARE FOR UNITS WITHOUT WOOD FRAMED ROOF OR FLOOR AND AVERAGE HEIGHT OF 10'-0"

*2 FOR LOADS GREATER THAN 20psf, MULTIPLY THIS VALUE BY THE ACTUAL LOAD AND DIVIDE BY 20.

*3 FOR LOADS GREATER THAN 100psf, MULTIPLY THIS VALUE BY THE ACTUAL LOAD AND DIVIDE BY 100.

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Owner

ROSAMOND HS

2925 WEST ROSAMOND BLVD
ROSAMOND, CA

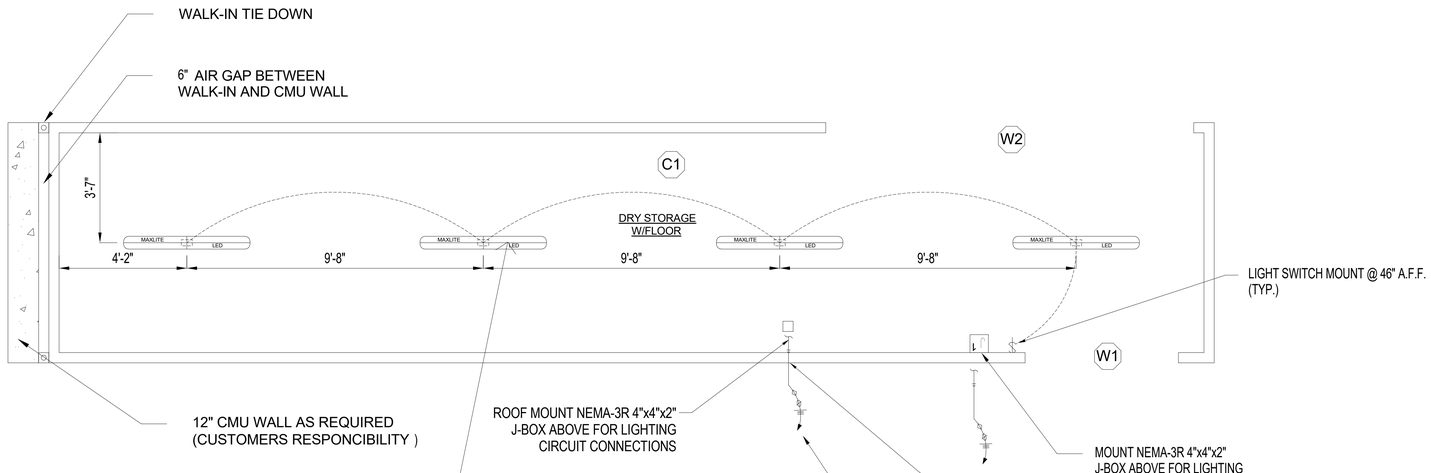
Drawing Title

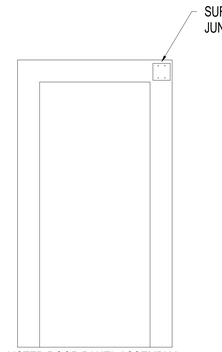
FABRICATION DRAWINGS ICS

Job No.
Project Number

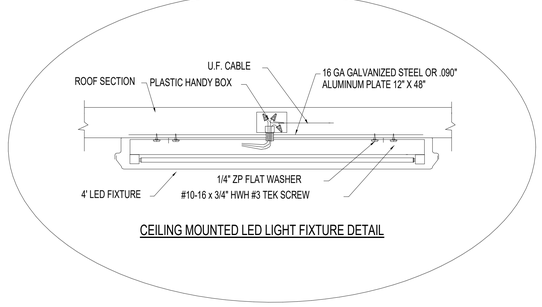
Sheet No.
FS-7.8
ICS-127526TDD

Date
Issue Date





U.L. LISTED DOOR PANEL ASSEMBLY
VIEW FROM INSIDE



CEILING MOUNTED LED LIGHT FIXTURE DETAIL

NOTE:

1. USE #14 THHN CONDUCTORS FROM SURFACE MOUNTED JUNCTION BOX TO CONDENSING UNIT CONTROL PANEL ON ROOF.
2. UF CABLE TO BE SPACED 1-1/2" MINIMUM OFF INTERIOR WALL SURFACES.
3. INTERIOR WALL MOUNTED LIGHT FIXTURE MAY BE DELETED IF CEILING MOUNTED LIGHT FIXTURE IS SPECIFIED.
4. OPTIONAL FIXTURE - 42 WATT LED.
5. NO MECHANICAL PIECE OF EQUIPMENT SHALL BE MORE THAN 25'-0" AWAY FROM THE NEAREST CONVENIENCE RECEPTACLE. PROVIDE QUANTITY OF RECEPTACLES AS REQUIRED.(BY CUSTOMER)

SYMBOL KEY

- 14-2 WITH GROUND TYPE UF CABLE FOAMED IN WALL AND CEILING CAVITY
- SURFACE MOUNTED NEMA-3R JUNCTION BOX
- U.L. LISTED DOOR PANEL ASSEMBLY JUNCTION BOX
- ROOM LIGHT SWITCH

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Drawing Title

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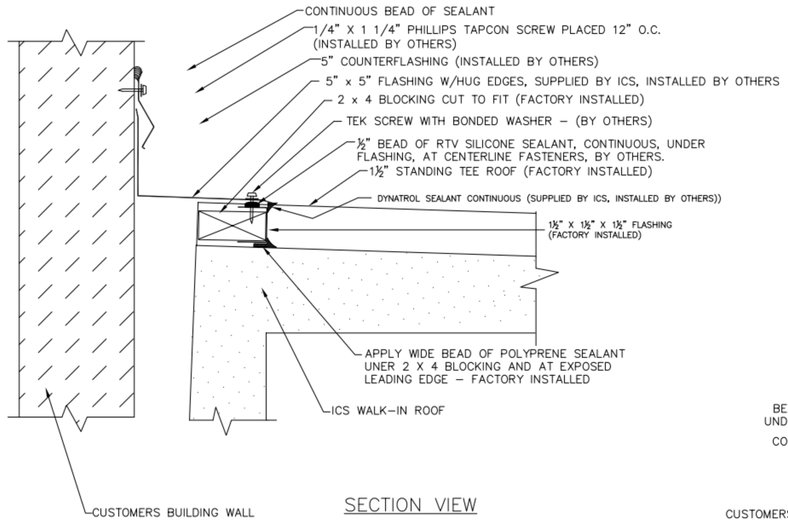
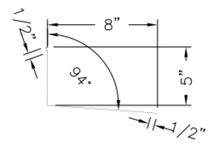
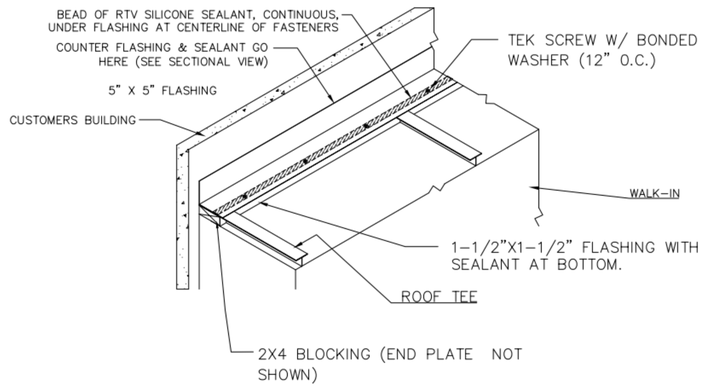
Sheet No.
FS-7.9
ICS-127526LD



SECTION VIEW



FLASHING DETAIL MATERIAL: 24 GA GALV



INSTRUCTIONS:

STEP 1. RUN A CONTINUOUS BEAD OF POLYPRENE OR URETHANE BASED FLEXIBLE SEALANT ALONG EXPOSED BOTTOM LEADING EDGE OF BLOCKING.
STEP 2. RUN A CONTINUOUS BEAD OF RTV SILICONE SEALANT UNDER FLASHING AND ON TOP OF NAILER BLOCK AT CENTERLINE OF FASTENERS.
STEP 3. PLACE 5" X 5" FLASHING ON TOP OF 2 X 4 BLOCKING AND AGAINST BUILDING.
STEP 4. FASTEN 5" X 5" FLASHING USING TEK SCREW WITH BONDED WASHER ON 12" CENTERS. TEK SCREW SHALL NOT PENETRATE STANDING TEE ROOF, FLANGES, OR ROOF CAP.
STEP 5. RUN A CONTINUOUS BEAD OF DYNATROL SEALANT BETWEEN THE 5" X 5" FLASHING AND TOP OF THE BLOCKING.
STEP 6. INSTALL COUNTER FLASHING AND CAULK.

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Drawing Title

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Job No.
Project Number

Sheet No.
FS-7.10
ICS-127526RFD

Date
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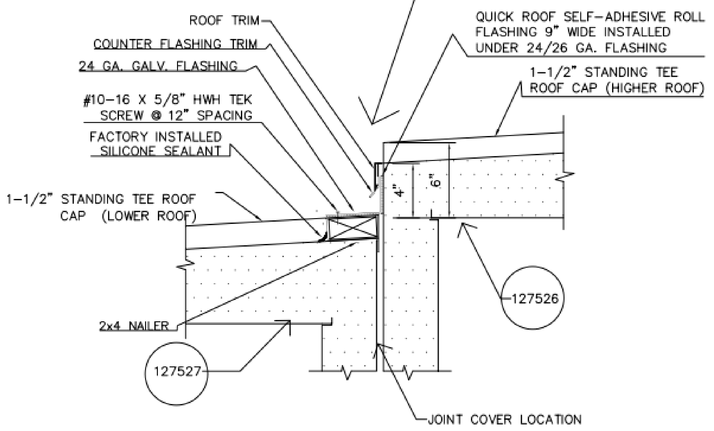
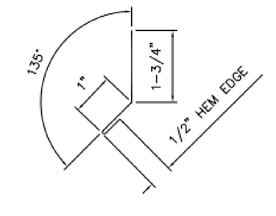
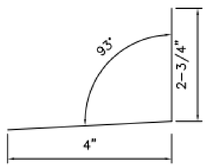
EVERIDGE UNITS ARE DESIGNED TO NOT HAVE SPACING BETWEEN THE UNITS TO PREVENT CONDITIONED AIR FROM ESCAPING.



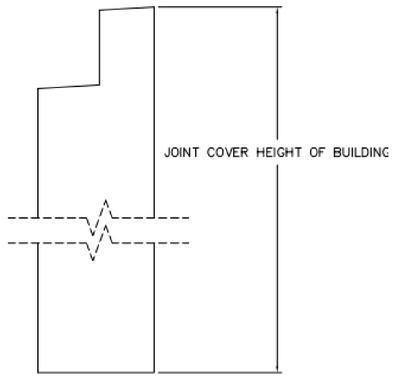
NOTES:
1) APPLY QUICK ROOF SELF ADHESIVE FLASHING TO THE 2X4 NAILER OF THE LOWER ROOF AND UP THE SIDE OF THE HIGHER ROOF BUILDING. QUICK ROOF MUST BE ADHERED TO AND COVER 2X4 NAILER.
2) INSTALL THE 24 GA. GALV. FLASHING UNDER THE COUNTER FLASHING TRIM AND ON TOP OF THE 2X4 NAILER. ATTACH THE 24 GA. GALV. FLASHING TO 2X4 NAILER WITH #10-16 X 5/8" HWH TEK SCREWS ON 12" SPACING.
3) IF MORE THAN ONE PIECE OF QUICK ROOF AND/OR 24 GA. FLASHING IS USED, OVERLAP JOINTS A MINIMUM OF 6".



COUNTERFLASHING TRIM .032 ALUMINUM (MATCH BUILDING COLOR)



FLASHING 24 GAUGE GALVANIZED



12" SIDING JOINT COVER
SIDING TO MATCH BUILDING COLOR

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Job No.
Project Number

Sheet No.
FS-7.11
ICS-127526CWF

Date
Issue Date

INDEX OF DRAWINGS			
EVERIDGE DRAWING NUMBER	DESCRIPTION	FIELD WORK	CONSTRUCTION TYPE
127527CS	COVER SHEET		
127527	UNIT DRAWING		
127527DIM	UNIT DIMENSIONS		
127527ED	ELEVATION DETAIL		
127527WL	WALL LOADS		5B
127527FL	FLOOR LOADS		5B
127527WO	WALL OPENING		5B
127527RCD	ROOF CONSTRUCTION		5B
127527DR	DOOR DETAIL		
127527CM R-01	COOLER MECHANICAL R-01	*	
127527TTD	TIE DOWN DETAIL	*	5B
127527LD	LIGHTING DETAIL	*	5B
127527CWF	COMMON WALL FLASHING	*	

NOTES:
1. THESE UNITS ARE DESIGNED IN ACCORDANCE WITH THE 2019 CBC PER ASCE-16, 2018 IMC 2017 NATIONAL ELECTRIC CODE, IECC SECTION C403.10.1.
2. WALK-IN FREEZER/COOLERS COMPLY WITH THE ENERGY INDEPENDENCE AND SECURITY ACT OF 2007 EISA SECTION 312 WALK-IN FREEZER/COOLERS
3. ICS WALK-IN FREEZER/COOLER ARE REGISTERED WITH THE DEPARTMENT OF ENERGY COMPLIANCE R-VALUE REQUIREMENTS BASED ON THE EISA 2007 SECTION 312.
4. UNITS SHALL HAVE A FIRE SEPARATION DISTANCE OF MORE THAN 15 FEET TO PROPERTY LINES OR INTERIOR LOT LINES.
5. THESE UNITS ARE NOT DESIGNED TO BE LOCATED IN FLOOD PRONE AREAS.
6. WIND LOAD DESIGN CONFORMS TO 2019 CBC AT 105 V-ult/81.3 V-asd, IMPORTANCE FACTOR 1.0, EXPOSURE C.
7. 2019 ASCE-16 SEISMIC CLASSIFICATION GROUP 1 DESIGN CATEGORY D
8. ICS WALK-IN STORAGE UNITS MAY BE ATTACHED TO CUSTOMERS BUILDING WITH A COMMON WALK THROUGH OPENING BETWEEN THE CUSTOMERS BUILDING AND THE ICS WALK-IN UNIT.
9. ICS WALK-IN STORAGE UNITS WITH AN AGGREGATE FLOOR AREA NOT EXCEEDING 400 SQUARE FEET SHALL NOT REQUIRE AN AUTOMATIC FIRE SUPPRESSION SYSTEM.
10. THIS BUILDING DOES NOT CONTAIN PLUMBING FACILITIES. PLUMBING FACILITIES SHALL BE PROVIDED ON SITE SUBJECT TO THE LOCAL AUTHORITY HAVING JURISDICTION.
11. ICS WALK-IN STORAGE UNITS WITH AN AGGREGATE FLOOR AREA EXCEEDING 400 SQUARE FEET SHALL REQUIRE AN AUTOMATIC FIRE SUPPRESSION SYSTEM SUPPLIED BY CUSTOMER.
12. * INDICATES THOSE DRAWINGS WHICH CONTAIN WORK DONE IN THE FIELD.
13. ICS WALK-IN UNITS CONSTRUCTION CATEGORY (USE GROUP S-2, CONSTRUCTION TYPE 5B)
14. # INDICATES DRAWINGS THAT HAVE BEEN REVISED 15.

ALLOWABLE UNIT LOADS - PSF

4" REINFORCED FLOOR	10000 PSF
WALL	SEE DRAWING FS-7.16 127527WL
ROOF	SEE DRAWING FS-7.19 127527RCD

THIS DRAWING IS THE PROPERTY OF INTERNATIONAL COLD STORAGE. IT IS NOT TO BE ALTERED OR DISTRIBUTED TO OTHERS WITHOUT THE WRITTEN APPROVAL OF INTERNATIONAL COLD STORAGE.

EVERIDGE, LLC /dba
INTERNATIONAL COLD STORAGE
215 E. 13TH STREET ANDOVER,
KANSAS 67002

ADDITIONAL UNIT NOTES.
UNIT IS DESGIN TO MEET THE FOLLOW CRITERIA
2019 CALIFORNIA BUILDING CODE
ASCE 7-16 MINIMUM DESIGN LOADS
1. ROOF LIVE LOAD 20 PSF
   ROOF TYPE MONO-SLOPE
2. WIND DESIGN DATA (1603-1.4 CBC)
   WIND SPEED (3-SEC GUST) =105 MPH (ULTIMATE WIND SPEED)
   WIND IMPOTANCE FACTOR = 1.0.
   EXPOSURE CATEGORY: = C
3. EARTHQUAKE DESIGN DATA (1603.1.5 CBC)
   SEISMIC IMPORTANCE FACTOR I= 1.25
   SEISMIC RISK CATEGORY: III
   SOIL SITE CLASS:
   MAPPED SPECTRAL RESPONSE ACCELERATIONS (S_S= 1.097g & S1 = 0.435g)
   SOIL DESIGN CATEGORY = D
   SPECTRAL RESPONSE COEFFICIENTS, S_{DS}=0.776g
   SEISMIC DESIGN CATEGORY = D

OCCUPANCY TYPE: S-2
CONSTRUCTION TYPE: 5-B
ROOF LIVE LOAD: 20 PSF

ADDITIONAL UNIT NOTES
THIS BUILDING MEETS THE ENERGY REQUIREMENTS IN THE CEC 2019 120.6
AS BASED ON THE TEST PROVIDED.
UL LISTED COMMERCIAL WALK-IN FILE SA7966
UL LISTED COMMERCIAL DOOR PANEL FILE E80497

MODEL NUMBERS
THE MODEL NUMBER IS AN ALPHA/NUMERIC DESIGNATION. THE ALPHA PORTION AT THE BEGINNING OF THE MODEL NUMBER DESCRIBES THE CONSTRUCTION AND REFRIGERATION OF THE UNIT. ALPHA CODES ARE AS FOLLOWS:

IB - SINGLE COMPARTMENT BUILDING THE NUMERICAL PORTION OF THE MODEL NUMBER DESCRIBES THE APPROXIMATE OUTSIDE DIMENSIONS OF THE BUILDING. THE WIDTH, THE SHORTEST DIMENSION, IS SPECIFIED FIRST, FOLLOWED BY THE LENGTH. IF BUILDING DIMENSIONS ARE NOT IN WHOLE FOOT INCREMENTS THE NEXT HIGHER WHOLE FOOT IS USED FOR MODEL NUMBERS.

IC	838
I	INJECTAFOAM
C	SINGLE COMPARTMENT COOLER TEMPERATURE WALK-IN
8	WIDTH IN WHOLE FOOT INCREMENTS
38	LENGTH IN WHOLE FOOT INCREMENTS

STRUCTURAL CAPACITY OF UNITS ARE BASED ON SIZE, NUMBER OF COMPARTMENTS, SITE SPECIFIC WIND, SEISMIC AND GROUND SNOW LOADING PER IBC 2018. PROFESSIONAL ENGINEERING CONSULTANTS, P.A. CALCULATION PROGRAM FOR ICS CALCULATES THE WIND PRESSURES (PSF) ON THE UNIT BASED ON THE 3 SECOND GUST. IT ALSO CALCULATES THE MAXIMUM ROOF SNOW DRIFT LOAD BASED UPON THE EXISTING ADJACENT BUILDING HEIGHT AND GROUND SNOW. THE PROGRAM COMPARES THE COMPUTED VALUES FOR THE SPECIFIC SITE WITH THE ALLOWABLE LOADS FOR THE UNIT PANELS BASED UPON TESTING VALUES PER PFS LABORATORY SERVICES REPORT NO. #09-92.

AGENCY

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No.	Date	Description

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Owner

ROSAMOND HS

2925 WEST ROSAMOND BLVD
ROSAMOND, CA

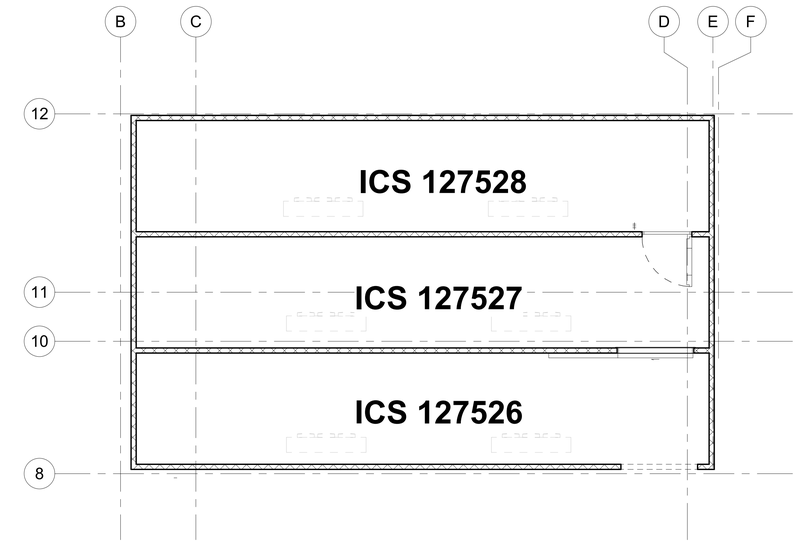
Drawing Title

FABRICATION DRAWINGS ICS

Job No.
Project Number

Sheet No.
FS-7.12
ICS-127527CS

Date
Issue Date



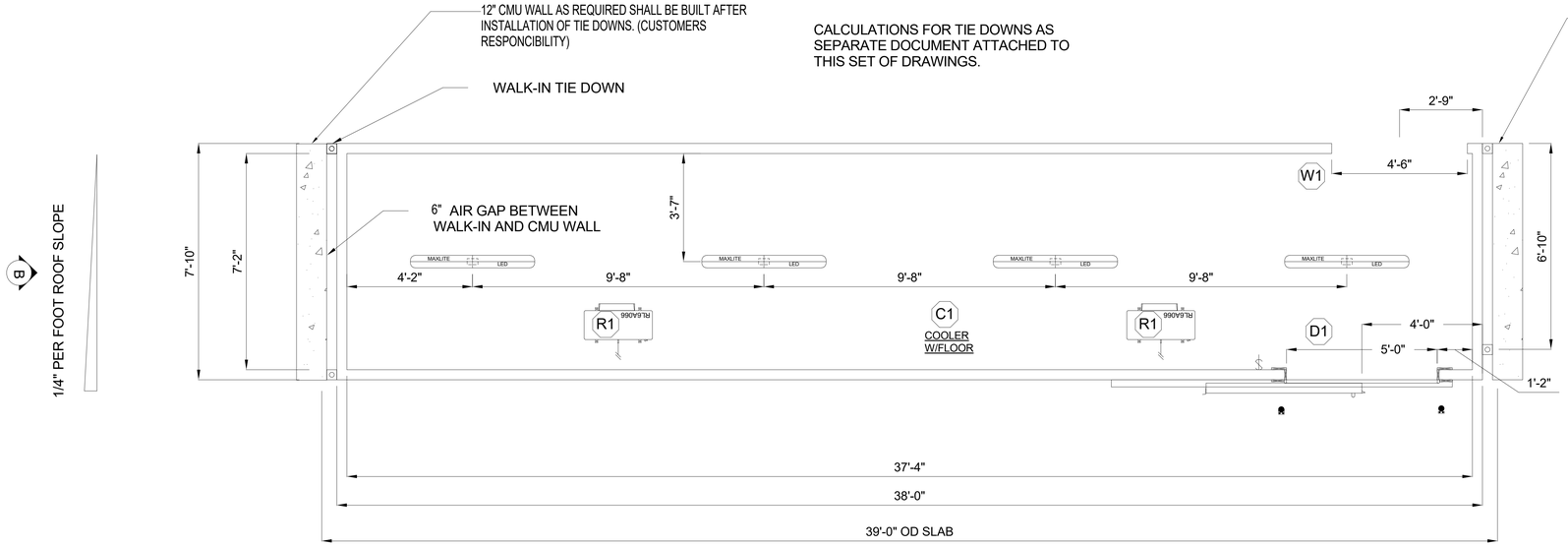
② ICS GRID LINE REFERENCE
1/4" = 1'-0"

12" CMU WALL AS REQUIRED SHALL BE BUILT AFTER INSTALLATION OF TIE DOWNS. (CUSTOMERS RESPONCIBILITY)

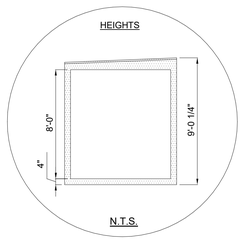
WALK-IN TIE DOWN

CALCULATIONS FOR TIE DOWNS AS SEPARATE DOCUMENT ATTACHED TO THIS SET OF DRAWINGS.

12" CMU WALL AS REQUIRED SHALL BE BUILT AFTER INSTALLATION OF TIE DOWNS. (CUSTOMERS RESPONCIBILITY)



NOTE:
REFERENCE SHEET NUMBER FS-7.21 / ICS-127527CM
FOR MECHANICAL DETAILS.



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ROSAMOND, CA

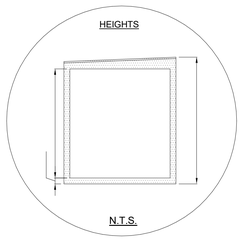
Drawing Title

FABRICATION DRAWINGS ICS

Job No.
Project Number

Date
Issue Date

Sheet No.
FS-7.13
ICS-127527



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ROSAMOND HS

2925 WEST ROSAMOND BLVD
ROSAMOND, CA

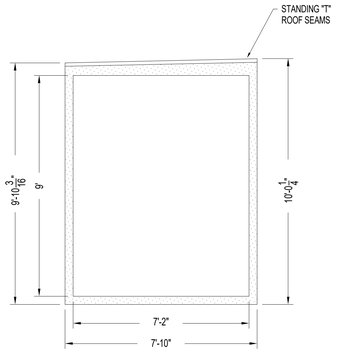
Drawing Title

FABRICATION DRAWINGS ICS

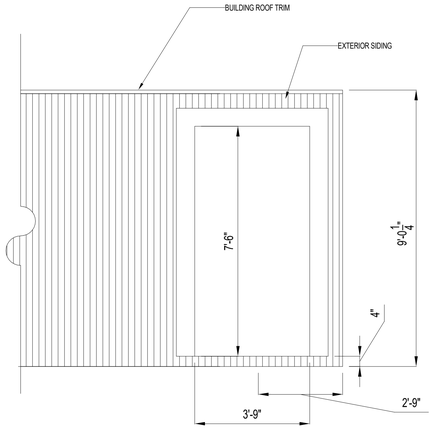
Job No.
Project Number

Sheet No.
FS-7.14
ICS-1257527DIM

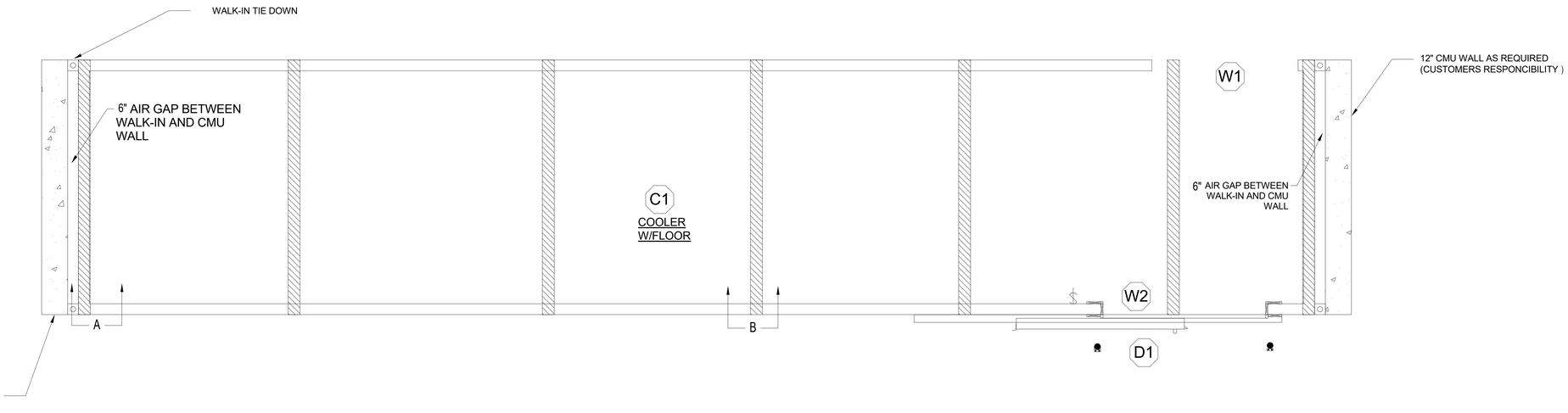
Date
Issue Date

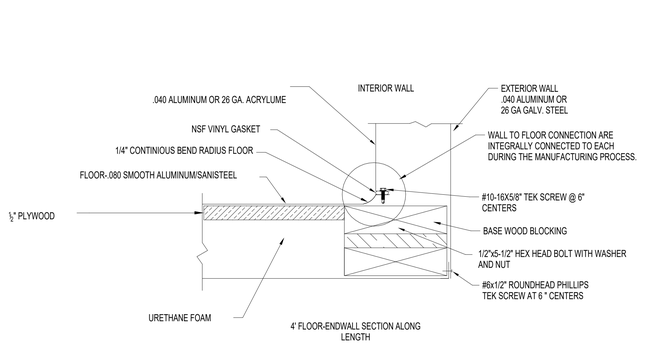


END SECTION VIEW



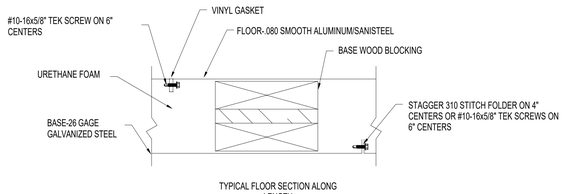
W-1 ELEVATION





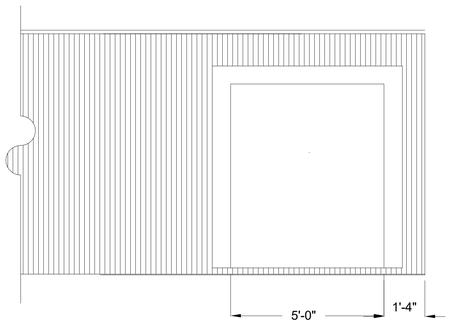
4' FLOOR-ENDWALL SECTION ALONG LENGTH

A - A



TYPICAL FLOOR SECTION ALONG LENGTH

B - B



W-2 (D-1) ELEVATION

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Owner

ROSAMOND HS

2925 WEST ROSAMOND BLVD
ROSAMOND, CA

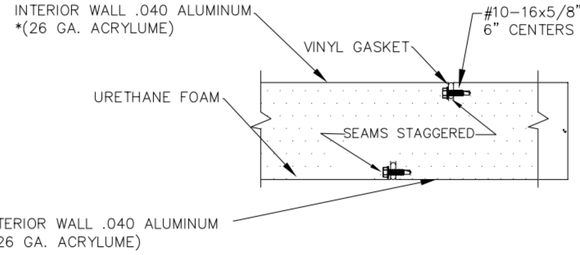
Drawing Title

FABRICATION DRAWINGS ICS

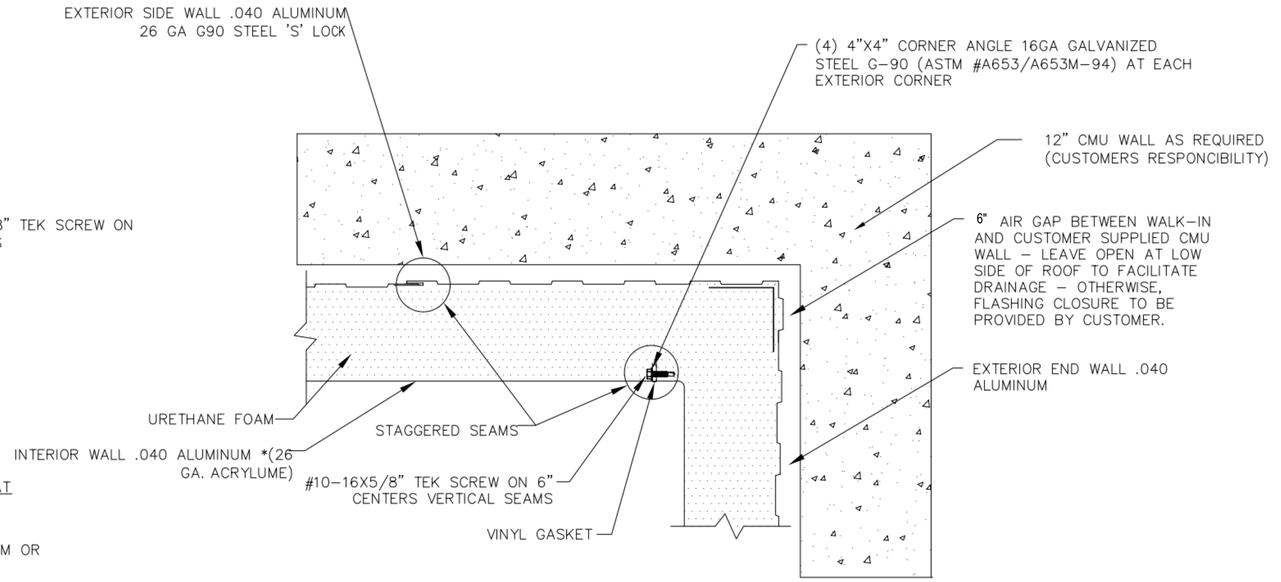
Job No.
Project Number

Sheet No.
FS-7.15
ICS-1257527ED

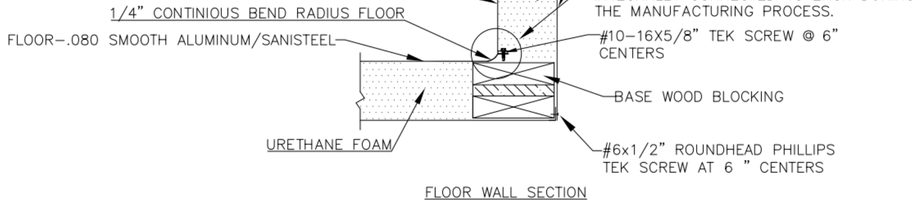
Date
Issue Date



TYPICAL HORIZONTAL SECTION AT INTERIOR DIVIDING WALL



TYPICAL HORIZONTAL SECTION AT EXTERIOR WALL



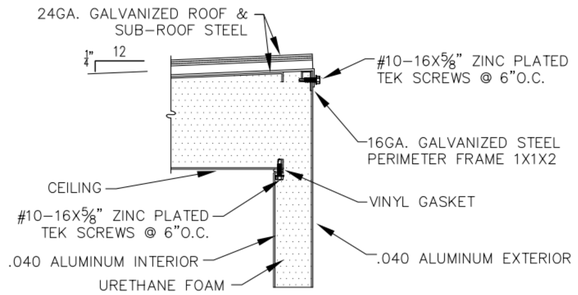
FLOOR WALL SECTION

ALLOWABLE WALL LOADS

HEIGHT	LATERAL LOAD	AXIAL LOAD
9'-0"	61.8 PSF	29.0 PSI

NOTES:

1. MOUNT CONDENSING UNIT TO SUPPORT CHANNELS WITH FOUR 3/8" HEX HEAD BOLTS.
2. CONDENSING UNIT CONNECTION CAPABLE OF WITHSTANDING 140 MPH WINDS IN EXPOSURE C IN ACCORDANCE WITH ASCE 7-16 WIND STANDARD.
3. 22 GAGE GALVALUME MAY BE SUBSTITUTED FOR THE .040 ALUMINUM WALLS AND 22 GAGE STAINLESS STEEL MAY BE SUBSTITUTED FOR THE .040 ALUMINUM WALLS.



ROOF TO WALL SECTION

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Owner

ROSAMOND HS

2925 WEST ROSAMOND BLVD
ROSAMOND, CA

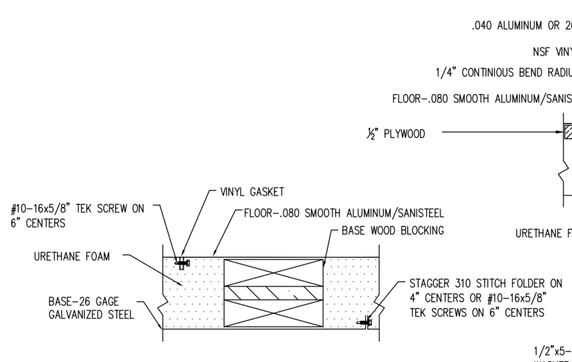
Drawing Title

FABRICATION DRAWINGS ICS

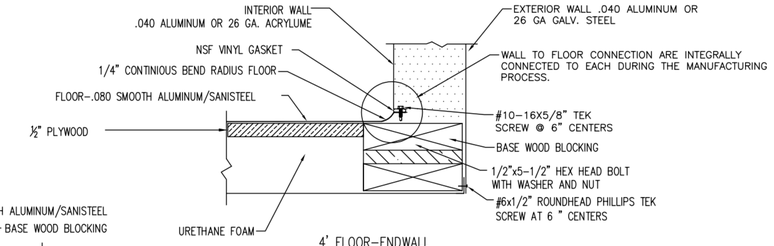
Job No.
Project Number

Sheet No.
FS-7.16
ICS-125727WL

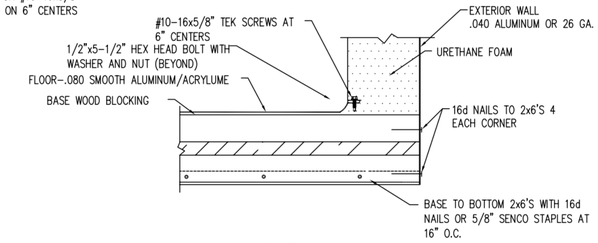
Date
Issue Date



TYPICAL FLOOR SECTION
ALONG LENGTH



4' FLOOR-ENDWALL
SECTION ALONG LENGTH



FLOOR-ENDWALL
SECTION ALONG WIDTH

NOTES:

1. SKIDS ARE SECURED TO BASE WOOD BLOCKING WITH 1/2"x3" LAG SCREWS EXCEPT AT TRANSPORT CONNECTIONS WHERE 1/2"x5-1/2" BOLTS ARE USED. SKIDS ARE USED FOR TRANSPORT AND REMOVED ONCE ON SITE.
2. TOP 2x6 OF BASE WOOD BLOCKING MAY HAVE ONE SPLICE.
3. BASE WOOD BLOCKING CONSISTS OF TWO 2x6'S SYP#2, SPF#1 WITH 3/4" CDX PLYWOOD, WITH 16d NAILS ON 12" CENTERS STAGGERED.
4. BASE WOOD BLOCKING AT EACH END AND AT MAXIMUM 12' SPACING ALONG BUILDING LENGTH.
5. .080 ALUMINUM, .125 ALUMINUM, 18 GAGE STAINLESS STEEL OR SANISTEEL MAY BE USED AS FLOORING MATERIAL
   22 GAGE GALVALUME MAY BE SUBSTITUTED FOR THE .040 ALUMINUM WALLS AND 22 GAGE STAINLESS STEEL MAY BE SUBSTITUTED FOR THE .040 ALUMINUM WALLS.

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Owner

ROSAMOND HS

2925 WEST ROSAMOND BLVD
ROSAMOND, CA

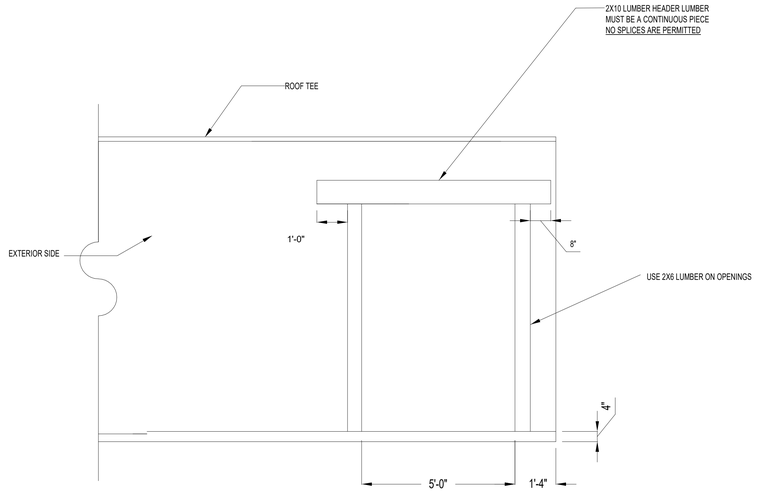
Drawing Title

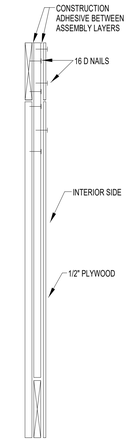
FABRICATION DRAWINGS ICS

Job No.
Project Number

Sheet No.
FS-7.17
ICS-127527FL

Date
Issue Date





SIDE DETAIL

W1 - FRONT VIEW

NOTES:
1) WALL OPENING TO BE FRAMED WITH LUMBER BASED ON OPENING SIZE.
   HEADER BEAMS ARE TO BE CONSTRUCTED AS SOLID PIECES
   NO SPLICES ARE PERMITTED.
2) HEADER LUMBER TO EXTEND PAST THE VERTICAL SUPPORT BY 12".
3) 1/2" PLYWOOD TO BE NOTCHED TO ACCEPT WALL FLANGES.
   (1/2" FLANGES WERE REQUIRED) WHERE NECESSARY.
4) CONSTRUCT FRAME WITH LAP JOINTS AT CORNERS AS SHOWN.
   USE 16D NAILS AND CONSTRUCTION ADHESIVE.

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Owner

ROSAMOND HS

2925 WEST ROSAMOND BLVD
ROSAMOND, CA

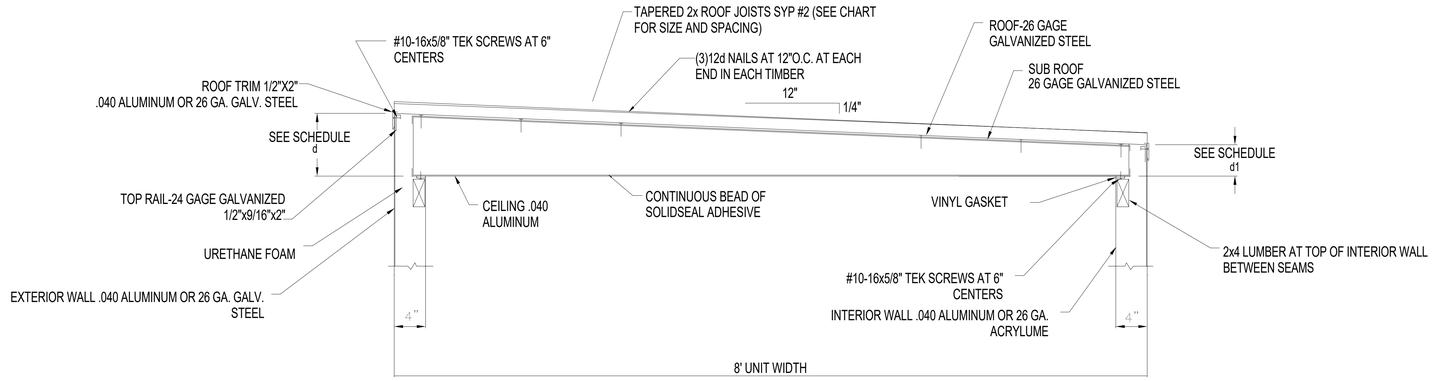
Drawing Title

FABRICATION DRAWINGS ICS

Job No.
Project Number

Sheet No.
FS-7.18
ICS-127527WO

Date
Issue Date



26 GA. GALV. STEEL ROOF & .040 ALUM. CEILING
ALLOWABLE UNIFORM ROOF LOAD SCHEDULE

UNIT WIDTH	L (IN)	d1 (IN)	d2 (IN)	d (IN)	SELECTED MEMBER	ROOF JOISTS SPACING 24" CTRS
8'	91"	4.50"	2.00"	6.50"	2x8	219 PSF

ALLOWABLE LOADS ARE BASED ON COMPOSITE ANALYSIS COMPARED WITH TESTED ADHESION VALUES WITH 26 GA. GALVANIZED STEEL ON EXTERIOR AND .040 ALUMINUM SKIN ON THE INTERIOR.

NOTES:

1. LUMBER SHALL HAVE NO LOOSE KNOTS WITHIN 2" OF SAWN EDGE AND NO KNOTS LARGER THAN 1-1/2" DIAMETER WITHIN 1" OF SAWN EDGE.
2. MAXIMUM SPACING TO FIRST ROOF JOIST FROM INSIDE FACE OF PARALLEL WALL NOT TO EXCEED JOIST SPACING AT SCHEDULE.
3. 22 GAGE GALVALUME MAY BE SUBSTITUTED FOR THE .040 ALUMINUM WALLS. 22 GA. STAINLESS STEEL MAY BE SUBSTITUTED FOR THE .040 ALUMINUM WALLS.

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ICS-127527RCD

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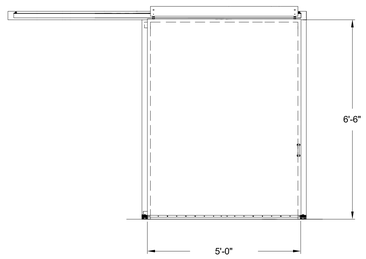
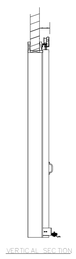
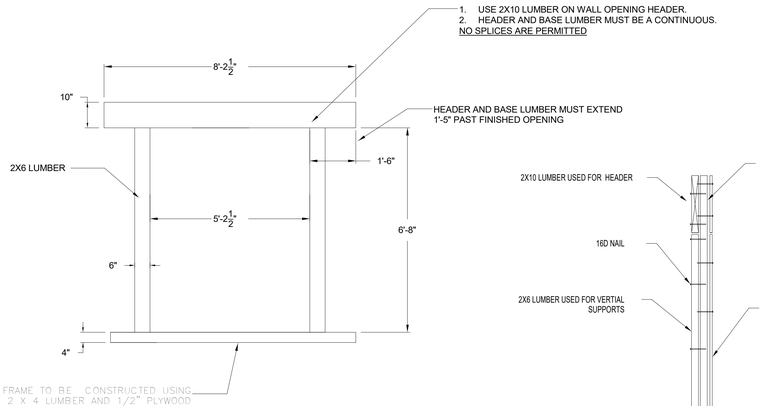


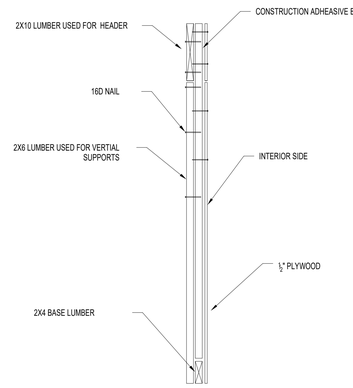
FRONT ELEVATION

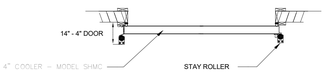


VERTICAL SECTION



FRONT VIEW





HORIZONTAL SECTION

INSTALLATION REQUIREMENTS:
1 FLOOR UNDER DOOR MUST BE LEVEL AND SMOOTH.
2 WALL BEHIND HEADER AND CASINGS MUST BE SMOOTH IN A COMMON PLANE.
3 MOUNTING HOLES DRILLED IN FACTORY FOR INSTALLATION.
4 STAY ROLLERS INSTALL AND ADJUSTED IN FIELD BY OTHERS.
5 DOOR OPERATOR IS SINGLE PHASE INPUT VOLTAGE - OPERATOR AND CONTROL BOX PREWIRED AT FACTORY.
6 EXPOSED WIRING IS SEALTIGHT CONDUIT.

DOOR

SIZE	A	B	DOOR
60"x78"	60	80	D-01

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ROSAMOND, CA

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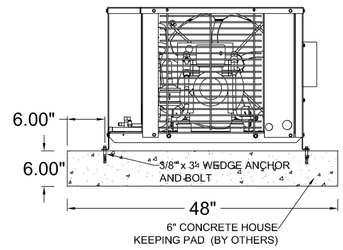


A

FRONT GRILL VIEW

RFH300E4SEANT

ESTIMATED WEIGHT (LBS.) 253

SOUND DATA dBA 73

NOTE:
ELECTRICAL SCHEDULE 40 PVC CONDUIT AND WIRING FROM THE CONDENSING UNIT TO THE EVAPORATOR COIL IS FACTORY WIRED AND TESTED.

ELECTRICAL WIRING HARNESS

E

ENGINEERING SPECIFICATIONS (REFRIGERATION)

POWER SUPPLY: 208-230V/ PH/60HZ 3 FUSE SIZE: AMPS 20

CALCULATED MOPD = AMPS 20 MINIMUM AMPACITY AMPS 15.3

WALK-IN INFORMATION			COMPRESSOR INFORMATION										EVAPORATOR INFORMATION													TIME CLOCK	ELECTRICAL INFO			LINE SIZE CONNECTIONS		ADDITIONAL INFORMATION				
								RATING @ 60 Hz								RATING @ 60 Hz										TOTAL LINE AMPS								
																1 Ø FAN			HEATER														
REFRIGERATION CONDITION	CONDENSING UNIT	ROOM TEMPERATURE (F)	SUCTION TEMP (F)	REFRIGERANT	TYPE	COMPRESSOR MODEL	H.P.	RLA	LRA	V	PH	TD (100°F)	DEFROST	QUANTITY	EVAPORATOR MODEL	RLA EACH	RLA TOTAL	V	AMPS	V	PH	HZ	SUPPLY CODE		L1	L2	L3	SUCTION	LIQUID	RECEIVER	ACCUMULATOR		SYSTEM REFRIGERANT CAPACITY	TOTAL LINE DISTANCE
COOLER	RFO180E4SEANT	+35	+25	448	H	CS18K6E-PFV	3.0	9.4	65.5	230	3	13.3	A	1	RL6A130DDARE	.50	1.0	230	0	230	1	60	HTPG	ECONET	120	120	120	7/8"	3/8"	STANDARD	N/A		14	25

UL C US LISTED CONDENSING UNIT

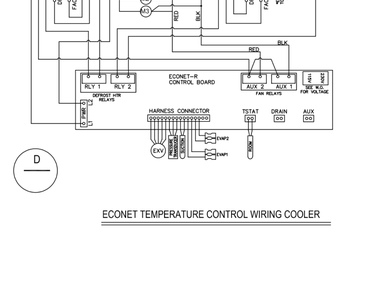
COMPRESSOR OPTION:
SCROLL Z
HERMETIC H
SEMI-HERMETIC S
DISCUS D

CONDENSING UNIT OPTIONS:
- HEAD PRESSURE CONTROL
- CRANK CASE HEATER
- FAN CYCLE SWITCH
- RECEIVER

DEFROST OPTIONS:
ELECTRIC (TIMED) E
HOT GAS (TIMED) H
OFF CYCLE (TIMED) O
C.T.M. COILS TO MATCH

* SUPPLY CODES:
HC MANUFACTURER EQUIPPED (ELECTRIC TXV/ORC CONTROLLER)
HTPG MANUFACTURER EQUIPPED (ELECTRIC TXV/ECONET CONTROLLER)
T EXP. T-STAT & SOLENOID SHIPPED INSTALLED BY ICS
L EXP. T-STAT & SOLENOID SHIPPED LOOSE BY ICS

- "COMPRESSOR MOTOR PROTECTED UNDER PRIMARY SINGLE PHASE PROTECTION."
- ALL SYSTEMS ENGINEERED WITH R-404A OR R-448A REFRIGERANT. ANY BASES/COILS SUPPLIED BY ICS MAYBE EQUIPPED WITH ELECTRIC EXPANSION VALVE.

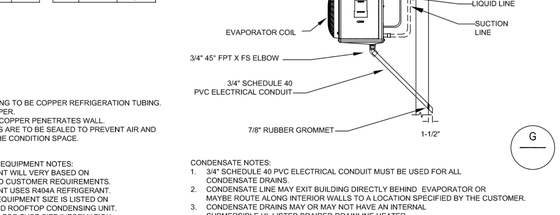


NOTE: REFER TO MANUFACTURERS INSTALLATION DETAILS FOR ANCHOR PLACEMENT

B

SIDE VIEW

ELECTRICAL CONTROL PANEL

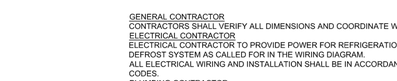


TOP VIEW

NOTES:
1. MOUNT CONDENSING UNIT TO SUPPORT CHANNELS WITH FOUR PER SIDE 3/8" HEX HEAD TEK SCREWS.
2. CONDENSING UNIT CONNECTION CAPABLE OF WITHSTANDING 140 MPH WINDS IN EXPOSURE C IN ACCORDANCE WITH ASCE 7-10 WIND STANDARD.

F

TOP VIEW



ECONET ELECTRICAL END VIEW

EVAPORATOR PIPING END VIEW

PHYSICAL DATA

*NOTE: EVAPORATOR SUCTION LINE SIZE TO MATCH CONDENSING UNIT LINE SIZE. FACTORY TO USE BUSHING TO MATCH LINE SIZING

H

UNIT COOLER DETAIL

COOPER LINE - LIQUID & SUCTION

C

D

ECONET TEMPERATURE CONTROL WIRING COOLER

TTR PIPE ASSEMBLY AND CONSTRUCTION

LINE SIZES		
HP	LIQUID LINE	SUCTION LINE
1.5	3/8"	7/8"

ELECTRICAL SERVICE REQUIREMENTS		
SERVICE AMP	CONDUIT SIZE	WIRE SIZE THWN
20	1/2"	12

NOTES:
1. ALL REFRIGERATION PIPING TO BE COPPER REFRIGERATION TUBING.
2. ALL FITTINGS TO BE COPPER.
3. USE GROMMETS WHERE COPPER PENETRATES WALL.
4. ALL ROOF PENETRATIONS ARE TO BE SEALED TO PREVENT AIR AND WATER LEAKAGE INTO THE CONDITION SPACE.

ADDITIONAL REFRIGERATION EQUIPMENT NOTES:
1. REFRIGERATION EQUIPMENT WILL VERY BASED ON INDIVIDUAL ROOM SIZE AND CUSTOMER REQUIREMENTS.
2. REFRIGERATION EQUIPMENT USES R404A REFRIGERANT.
3. REFRIGERANT USED AND EQUIPMENT SIZE IS LISTED ON BUILDING DATA PLATES AND ROOFTOP CONDENSING UNIT.
4. SEE BUILDING DATA PLATE FOR FUSE SIZE INFORMATION REGARDING EACH REFRIGERATION UNIT.
5. CONDENSING UNIT EQUIPPED WITH HIGH SIDE PRESSURE RELIEF VALVE

G

CONDENSATE NOTES:
1. 3/4" SCHEDULE 40 PVC ELECTRICAL CONDUIT MUST BE USED FOR ALL CONDENSATE DRAINS.
2. CONDENSATE LINE MAY EXIT BUILDING DIRECTLY BEHIND EVAPORATOR OR MAYBE ROUTE ALONG INTERIOR WALLS TO A LOCATION SPECIFIED BY THE CUSTOMER.
3. CONDENSATE DRAINS MAY OR MAY NOT HAVE AN INTERNAL SUBMERSIBLE UL LISTED BRAIDED DRAINLINE HEATER.
4. DRAINLINE HEATERS WATTAGE NOT TO EXCEED 12 WATTS PER LINEAR FOOT.
5. DRAINLINES ROUTED ALONG INTERIOR WALLS ARE TO MAINTAIN 1 INCH PER FOOT SLOPE.

CONSTRUCTION NOTES FOR TRADES

GENERAL CONTRACTOR
CONTRACTORS SHALL VERIFY ALL DIMENSIONS AND COORDINATE WITH OTHER TRADES.
ELECTRICAL CONTRACTOR
ELECTRICAL CONTRACTOR TO PROVIDE POWER FOR REFRIGERATION PACKAGE AND CONNECT CONTROL AND DEFROST SYSTEM AS CALLED FOR IN THE WIRING DIAGRAM.
ALL ELECTRICAL WIRING AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE WIRING DIAGRAM AND LOCAL CODES.
PLUMBING CONTRACTOR
PLUMBING CONTRACTOR TO PROVIDE TYPE SCHEDULE 40 ELECTRICAL CONDUIT, PITCHED 1" IF REQUIRED PER FOOT OF RUN.
IF REQUIRED TRAP DRAIN LINES OUTSIDE OF REFRIGERATED SPACE TO AVOID ENTRANCE OF WARM AND MOIST AIR.
ALL PLUMBING INSTALLATION SHALL BE IN ACCORDANCE WITH LOCAL CODES.

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Drawing Title

FABRICATION DRAWINGS ICS

Job No. Project Number

Sheet No. **FS-7.21 ICS-127527CM R-01**

Date Issue Date

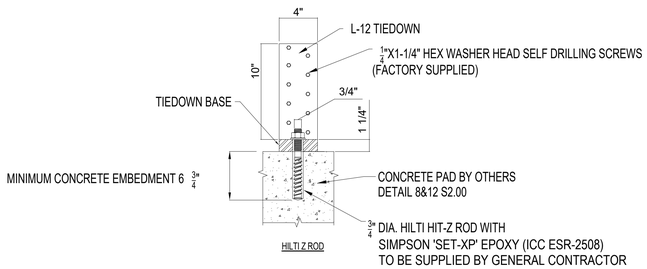
UNIT WIDTH	UNIT DEAD LOAD *1	ROOF LIVE LOAD (20psf)*2	FLOOR LIVE LOAD (100psf)*3
8'	35.7 PLF	80 PLF	350 PLF

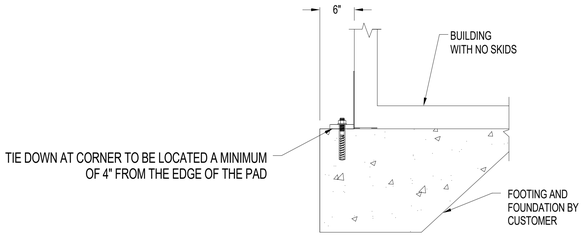
FOUNDATION NOTES:

1. 3000 PSI MINIMUM COMPRESSIVE STRENGTH CONCRETE AT 28 DAYS.
2. MINIMUM SOIL BEARING CAPACITY SHALL BE 1500 PSF.
3. INSTALLATION OF FOUNDATION IS RESPONSIBILITY OF CUSTOMER.
4. FINISH EDGES OF SLAB WITH 1/8" SLOPE FROM BUILDING TO EDGE.
5. WHEN ICS STORAGE UNIT IS ADJACENT TO ANOTHER BUILDING REDUCE OVERALL WIDTH BY 6".
6. 8" MINIMUM CONCRETE DEPTH REQUIRED AT TIE DOWN.
7. MINIMUM OF FOUR TIE DOWNS REQUIRED PER BUILDING. INSTALL AT CORNERS OF EACH END WALL. SEE APPENDIX C FOR NUMBER OF REQUIRED TIE DOWNS.
8. FOUNDATIONS/FOOTINGS BELOW FROSTLINE ARE REQUIRED FOR ALL BUILDING DESIGNS.
9. FOOTINGS AND CONCRETE PADS ARE TO BE DESIGN TO MEET LOCAL SITE SPECIFIC CONDITIONS BY A QUALIFIED ENGINEER OR ARCHITECT.

*1. DEAD LOADS ARE FOR UNITS WITHOUT WOOD FRAMED ROOF OR FLOOR AND AVERAGE HEIGHT OF 10'-0".
*2. FOR LOADS GREATER THAN 20psf, MULTIPLY THIS VALUE BY THE ACTUAL LOAD AND DIVIDE BY 20.
*3. FOR LOADS GREATER THAN 100psf, MULTIPLY THIS VALUE BY THE ACTUAL LOAD AND DIVIDE BY 100.

FIELD WORK ALL DETAILS THIS SHEET ARE BY OWNER.





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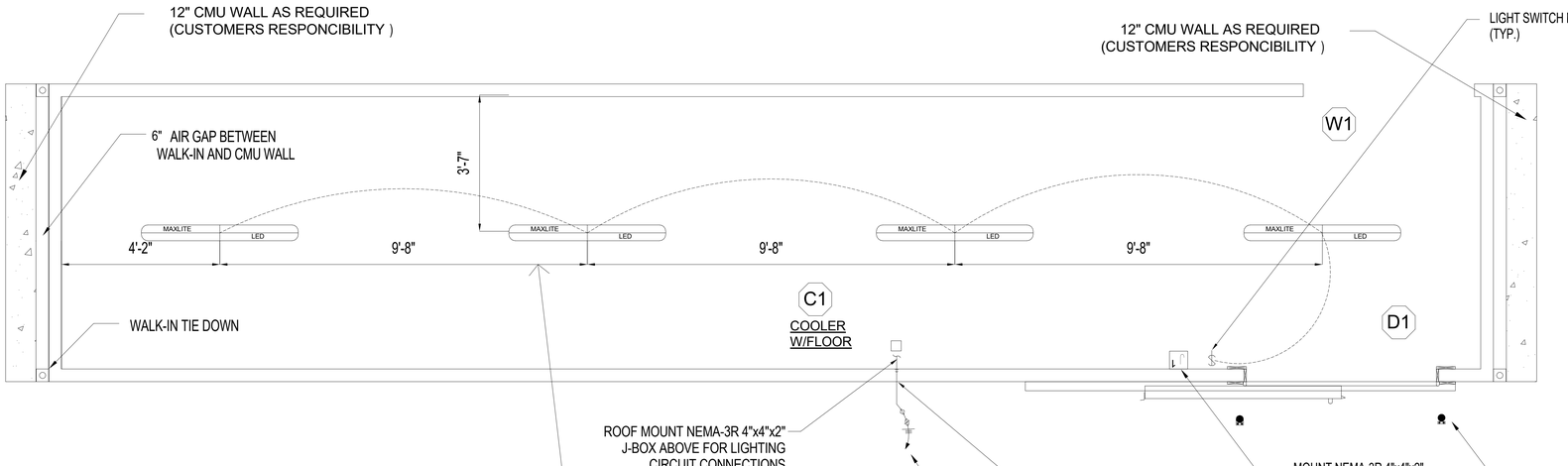
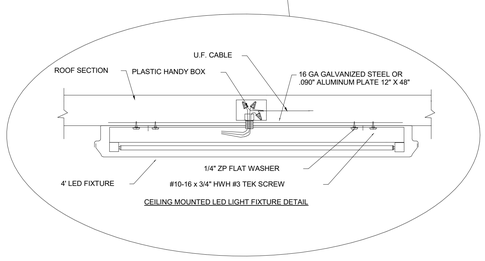


NOTE:

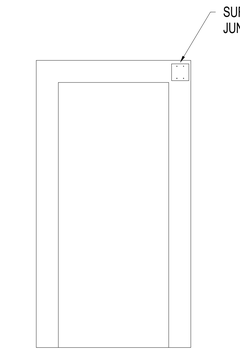
1. USE #14 THHN CONDUCTORS FROM SURFACE MOUNTED JUNCTION BOX TO CONDENSING UNIT CONTROL PANEL ON ROOF.
2. UF CABLE TO BE SPACED 1-1/2" MINIMUM OFF INTERIOR WALL SURFACES.
3. INTERIOR WALL MOUNTED LIGHT FIXTURE MAY BE DELETED IF CEILING MOUNTED LIGHT FIXTURE IS SPECIFIED.
4. OPTIONAL FIXTURE - 42 WATT LED.
5. NO MECHANICAL PIECE OF EQUIPMENT SHALL BE MORE THAN 25'-0" AWAY FROM THE NEAREST CONVENIENCE RECEPTACLE. PROVIDE QUANTITY OF RECEPTACLES AS REQUIRED.(BY CUSTOMER)

SYMBOL KEY

- 14-2 WITH GROUND TYPE UF CABLE FOAMED IN WALL AND CEILING CAVITY
- 1 SURFACE MOUNTED NEMA-3R JUNCTION BOX
- U.L. LISTED DOOR PANEL ASSEMBLY JUNCTION BOX
- ROOM LIGHT SWITCH



CEILING MOUNTED LED LIGHT FIXTURE DETAIL



U.L. LISTED DOOR PANEL ASSEMBLY
VIEW FROM INSIDE

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Owner

ROSAMOND HS

2925 WEST ROSAMOND BLVD
ROSAMOND, CA

Drawing Title

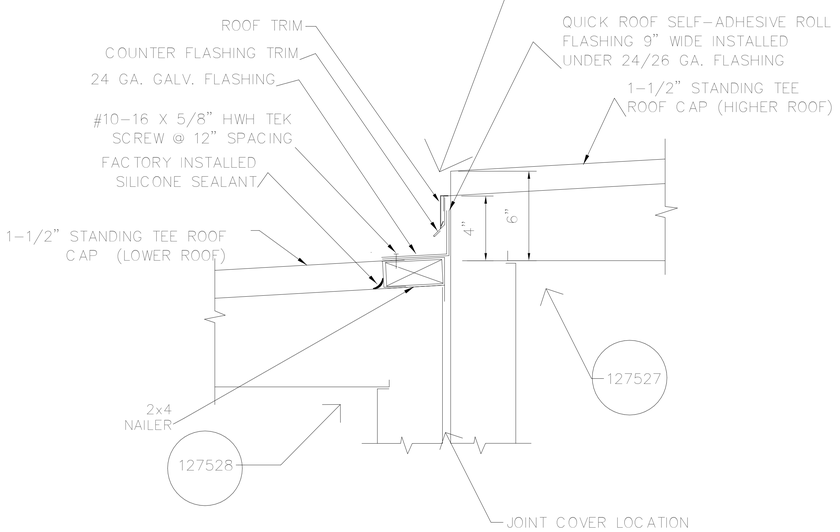
FABRICATION DRAWINGS ICS

Job No.
Project Number

Sheet No.
FS-7.23
ICS-127527LD

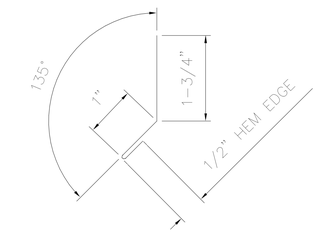
Date
Issue Date

EVERIDGE UNITS ARE DESIGNED TO NOT HAVE SPACING BETWEEN THE UNITS TO PREVENT CONDITIONED AIR FROM ESCAPING.

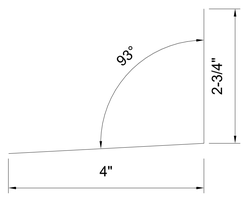


NOTES:

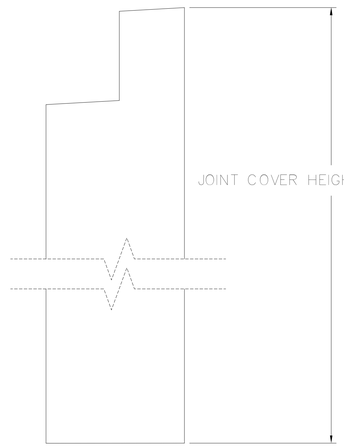
1. APPLY QUICK ROOF SELF ADHESIVE FLASHING TO THE 2X4 NAILER OF THE LOWER ROOF AND UP THE SIDE OF THE HIGHER ROOF BUILDING. QUICK ROOF MUST BE ADHERED TO AND COVER 2X4 NAILER.
2. INSTALL THE 24 GA. GALV. FLASHING UNDER THE COUNTER FLASHING TRIM AND ON TOP OF THE 2X4 NAILER. ATTACH THE 24 GA. GALV. FLASHING TO 2X4 NAILER WITH #10-16 X 5/8" HWH TEK SCREWS ON 12" SPACING.
3. IF MORE THAN ONE PIECE OF QUICK ROOF AND/OR 24 GA. FLASHING IS USED, OVERLAP JOINTS A MINIMUM OF 6".



COUNTERFLASHING TRIM .032 ALUMINUM(MATCH BUILDING COLOR)



FLASHING 24 GAUGE GALVANIZED



12" SIDING JOINT COVER SIDING TO MATCH BUILDING COLOR

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CONSULTANT

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2925 WEST ROSAMOND BLVD
ROSAMOND, CA

Drawing Title

FABRICATION DRAWINGS ICS

Job No.
Project Number

Sheet No.
FS-7.24
ICS-127527CWF

Date
Issue Date

INDEX OF DRAWINGS			
EVERIDGE DRAWING NUMBER	DESCRIPTION	FIELD WORK	CONSTRUCTION TYPE
127528CS	COVER SHEET		
127528	UNIT DRAWING		
127528DIM	UNIT DIMENSIONS		
127528ED	ELEVATION DETAIL		
127528WL	WALL LOADS		5B
127528FL	FLOOR LOADS		5B
127528RCD	ROOF CONSTRUCTION		5B
127528DR	DOOR DETAIL		
127528FM R-02	FREEZER MECHANICAL R-02	*	
127528TTD	TIE DOWN DETAIL	*	5B
127528LD	LIGHTING DETAIL	*	5B
127528CWF	COMMON WALL FLASHING	*	

NOTES:
1. THESE UNITS ARE DESIGNED IN ACCORDANCE WITH THE 2019 CBC PER ASCE-16, 2018 IMC 2017 NATIONAL ELECTRIC CODE, IECC SECTION C403.10.1.
2. WALK-IN FREEZER/COOLERS COMPLY WITH THE ENERGY INDEPENDENCE AND SECURITY ACT OF 2007 EISA SECTION 312 WALK-IN FREEZER/COOLERS
3. ICS WALK-IN FREEZER/COOLER ARE REGISTERED WITH THE DEPARTMENT OF ENERGY COMPLIANCE R-VALUE REQUIREMENTS BASED ON THE EISA 2007 SECTION 312.
4. UNITS SHALL HAVE A FIRE SEPARATION DISTANCE OF MORE THAN 15 FEET TO PROPERTY LINES OR INTERIOR LOT LINES.
5. THESE UNITS ARE NOT DESIGNED TO BE LOCATED IN FLOOD PRONE AREAS.
6. WIND LOAD DESIGN CONFORMS TO 2019 CBC AT 105 V-ult/81.3 V-asd, IMPORTANCE FACTOR 1.0, EXPOSURE C.
7. 2019 CBC PER ASCE-16 SEISMIC CLASSIFICATION GROUP 1 DESIGN CATEGORY D.
8. ICS WALK-IN STORAGE UNITS MAY BE ATTACHED TO CUSTOMERS BUILDING WITH A COMMON WALK THROUGH OPENING BETWEEN THE CUSTOMERS BUILDING AND THE ICS WALK-IN UNIT.
9. ICS WALK-IN STORAGE UNITS WITH AN AGGREGATE FLOOR AREA NOT EXCEEDING 400 SQUARE FEET SHALL NOT REQUIRE AN AUTOMATIC FIRE SUPPRESSION SYSTEM.
10. THIS BUILDING DOES NOT CONTAIN PLUMBING FACILITIES. PLUMBING FACILITIES SHALL BE PROVIDED ON SITE SUBJECT TO THE LOCAL AUTHORITY HAVING JURISDICTION.
11. ICS WALK-IN STORAGE UNITS WITH AN AGGREGATE FLOOR AREA EXCEEDING 400 SQUARE FEET SHALL REQUIRE AN AUTOMATIC FIRE SUPPRESSION SYSTEM SUPPLIED BY CUSTOMER.
12. * INDICATES THOSE DRAWINGS WHICH CONTAIN WORK DONE IN THE FIELD.
13. ICS WALK-IN UNITS CONSTRUCTION CATEGORY (USE GROUP S-2, CONSTRUCTION TYPE 5B)
14. # INDICATES DRAWINGS THAT HAVE BEEN REVISED 15.

ALLOWABLE UNIT LOADS - PSF

4" REINFORCED FLOOR	10000 PSF
WALL	SEE DRAWING FS-7.29 127528WL
ROOF	SEE DRAWING FS-7.31 127528RCD

EVERIDGE, LLC /dba
INTERNATIONAL COLD STORAGE
215 E. 13TH STREET ANDOVER,
KANSAS 67002

ADDITIONAL UNIT NOTES.
UNIT IS DESGIN TO MEET THE FOLLOW CRITERIA
2019 CALIFORNIA BUILDING CODE
ASCE 7-16 MINIMUM DESIGN LOADS
1. ROOF LIVE LOAD 20 PSF
   ROOF TYPE MONO-SLOPE
2. WIND DESIGN DATA (1603-1.4 CBC)
   WIND SPEED (3-SEC GUST) =105 MPH (ULTIMATE WIND SPEED)
   WIND IMPOTANCE FACTOR = 1.0.
   EXPOSURE CATEGORY: = C
3. EARTHQUAKE DESIGN DATA (1603.1.5 CBC)
   SEISMIC IMPORTANCE FACTOR I= 1.25
   SEISMIC RISK CATEGORY: III
   SOIL SITE CLASS:
   MAPPED SPECTRAL RESPONSE ACCELERATIONS (S_S= 1.097g & S1 = 0.435g)
   SOIL DESIGN CATEGORY = D
   SPECTRAL RESPONSE COEFFICIENTS, S_{DS}=0.776g
   SEISMIC DESIGN CATEGORY = D

OCCUPANCY TYPE: S-2
CONSTRUCTION TYPE: 5-B
ROOF LIVE LOAD: 20 PSF

ADDITIONAL UNIT NOTES
THIS BUILDING MEETS THE ENERGY REQUIREMENTS IN THE CEC 2019 120.6
AS BASED ON THE TEST PROVIDED.
UL LISTED COMMERCIAL WALK-IN FILE SA7966
UL LISTED COMMERCIAL DOOR PANEL FILE E80497

MODEL NUMBERS
THE MODEL NUMBER IS AN ALPHA/NUMERIC DESIGNATION. THE ALPHA PORTION AT THE BEGINNING OF THE MODEL NUMBER DESCRIBES THE CONSTRUCTION AND REFRIGERATION OF THE UNIT. ALPHA CODES ARE AS FOLLOWS:

IB - SINGLE COMPARTMENT BUILDING THE NUMERICAL PORTION OF THE MODEL NUMBER DESCRIBES THE APPROXIMATE OUTSIDE DIMENSIONS OF THE BUILDING. THE WIDTH, THE SHORTEST DIMENSION, IS SPECIFIED FIRST, FOLLOWED BY THE LENGTH. IF BUILDING DIMENSIONS ARE NOT IN WHOLE FOOT INCREMENTS THE NEXT HIGHER WHOLE FOOT IS USED FOR MODEL NUMBERS.

IF	838
I	INJECTAFOAM
F	SINGLE COMPARTMENT FREEZER TEMPERATURE WALK-IN
8	WIDTH IN WHOLE FOOT INCREMENTS
38	LENGTH IN WHOLE FOOT INCREMENTS

STRUCTURAL CAPACITY OF UNITS ARE BASED ON SIZE, NUMBER OF COMPARTMENTS, SITE SPECIFIC WIND, SEISMIC AND GROUND SNOW LOADING PER IBC 2018. PROFESSIONAL ENGINEERING CONSULTANTS, P.A. CALCULATION PROGRAM FOR ICS CALCULATES THE WIND PRESSURES (PSF) ON THE UNIT BASED ON THE 3 SECOND GUST. IT ALSO CALCULATES THE MAXIMUM ROOF SNOW DRIFT LOAD BASED UPON THE EXISTING ADJACENT BUILDING HEIGHT AND GROUND SNOW. THE PROGRAM COMPARES THE COMPUTED VALUES FOR THE SPECIFIC SITE WITH THE ALLOWABLE LOADS FOR THE UNIT PANELS BASED UPON TESTING VALUES PER PFS LABORATORY SERVICES REPORT NO. #09-92.

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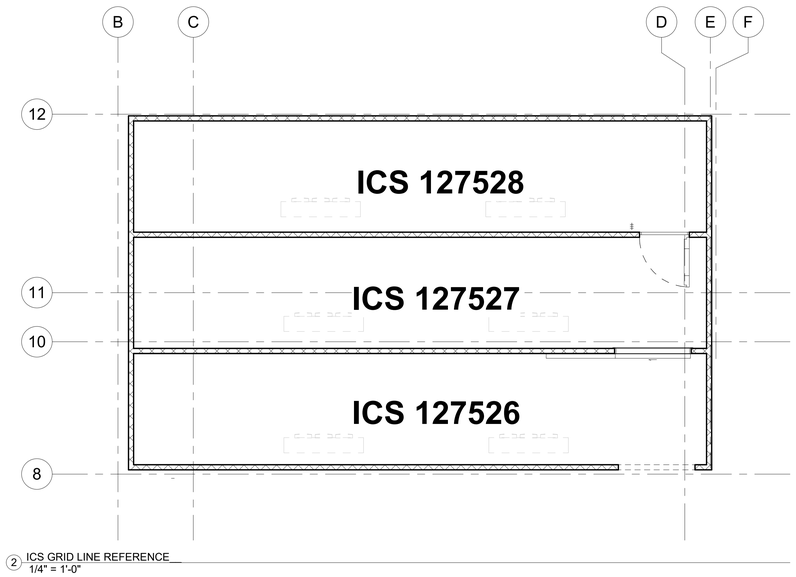
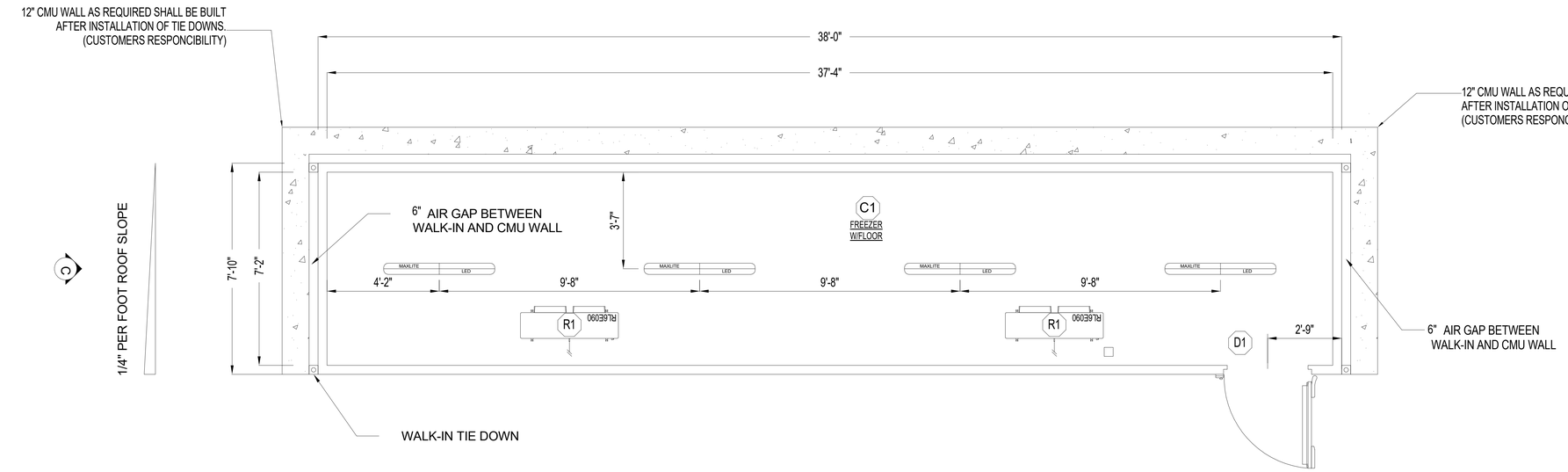
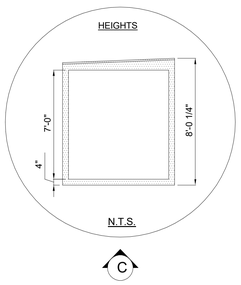


2 ICS GRID LINE REFERENCE
1/4" = 1'-0"

CALCULATIONS FOR TIE DOWNS AS SEPARATE DOCUMENT ATTACHED TO THIS SET OF DRAWINGS.





NOTE:
REFERENCE SHEET NUMBER FS-7.33 / ICS-127528CM FOR MECHANICAL DETAILS.

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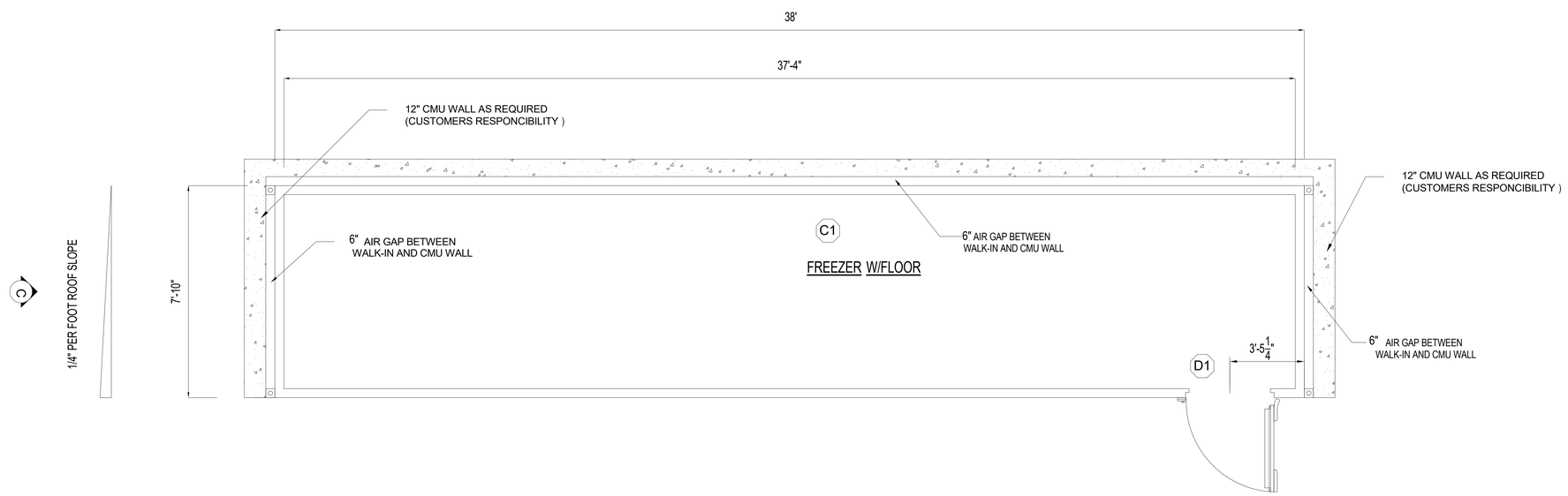

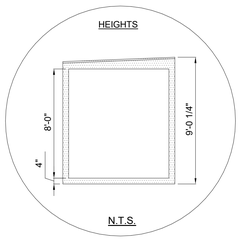

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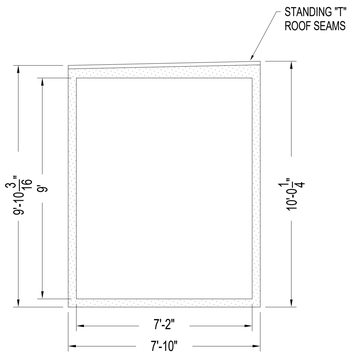
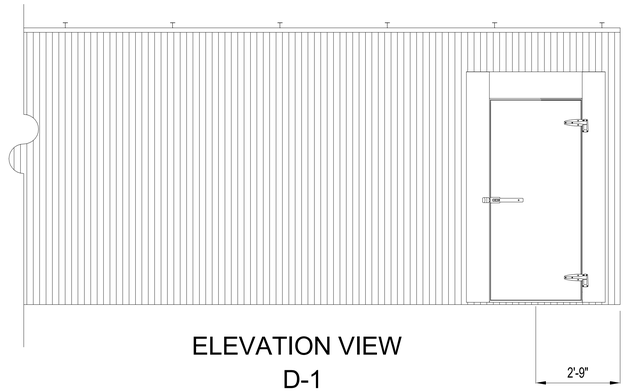
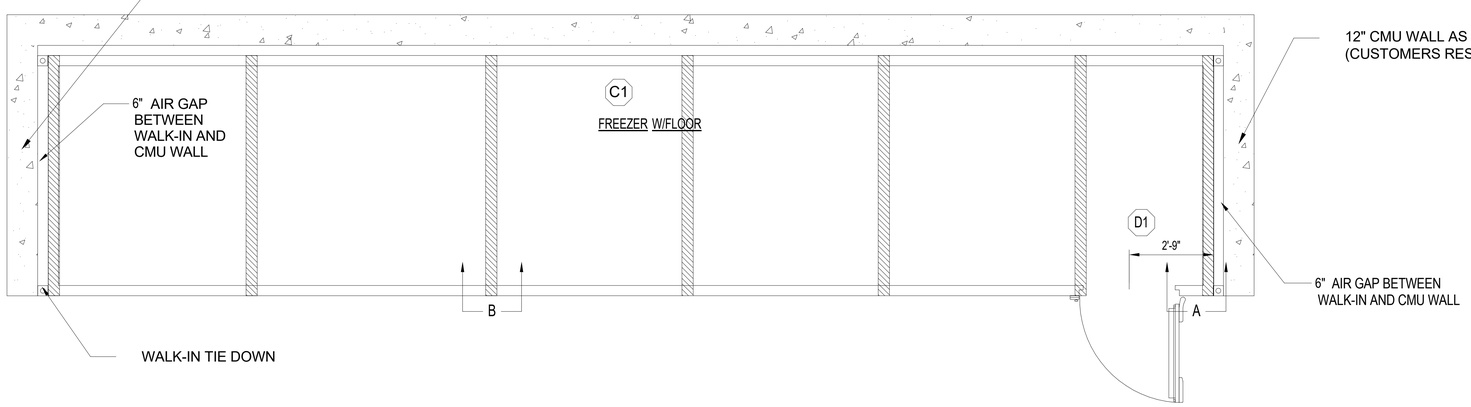
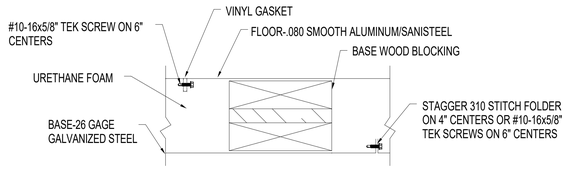


END SECTION VIEW



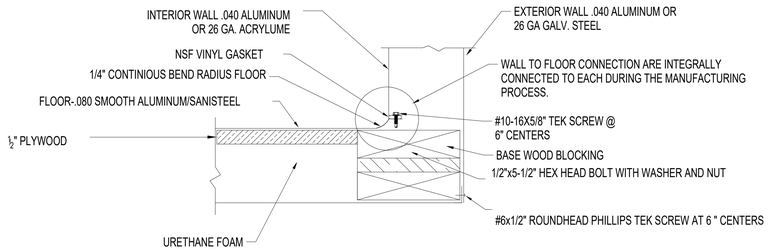
ELEVATION VIEW
D-1





TYPICAL FLOOR SECTION
ALONG LENGTH

B - B



4' FLOOR-ENDWALL SECTION
ALONG LENGTH

A - A

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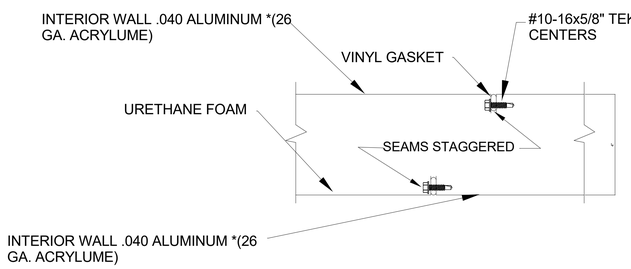
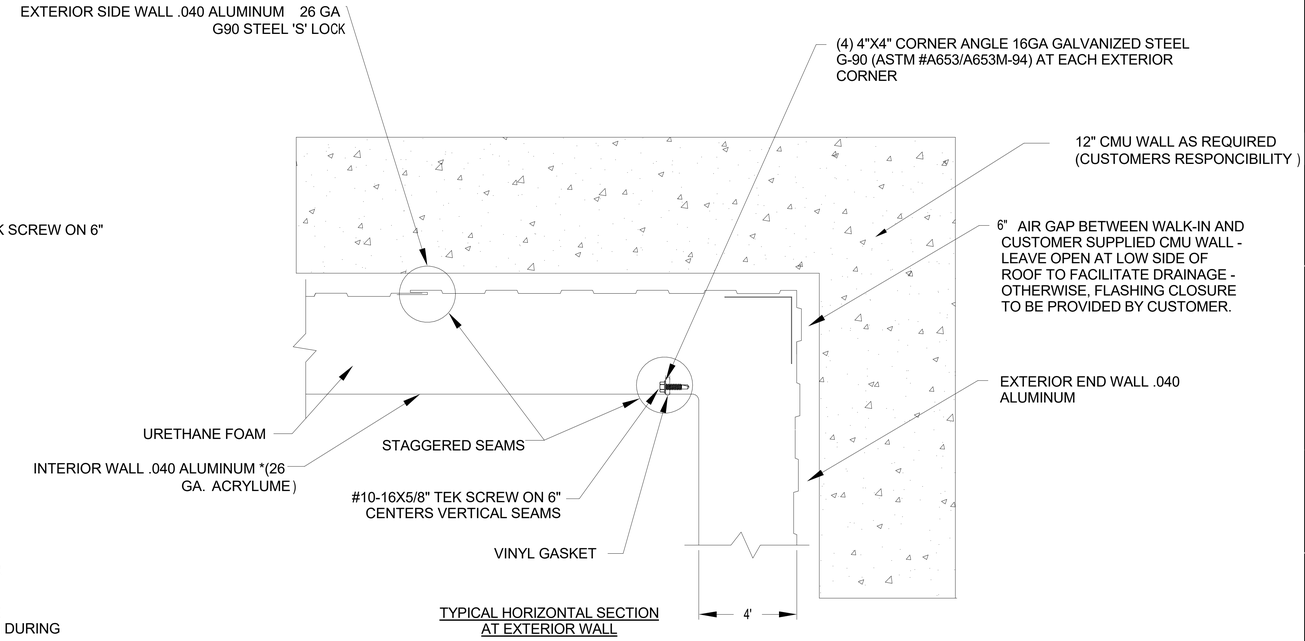
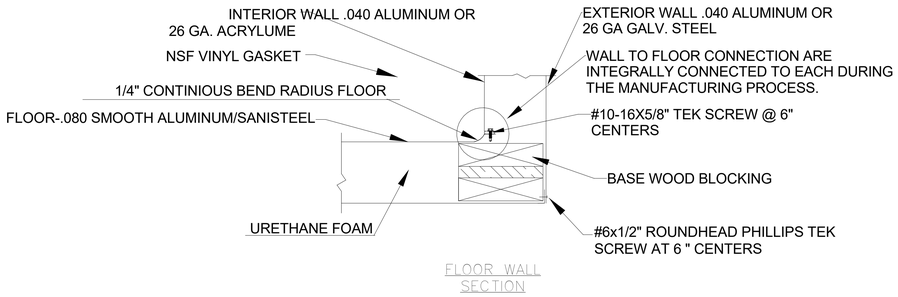


TYPICAL HORIZONTAL SECTION AT INTERIOR DIVIDING WALL



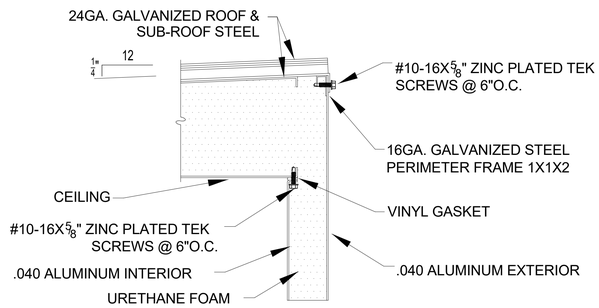
TYPICAL HORIZONTAL SECTION AT EXTERIOR WALL



FLOOR WALL SECTION

ALLOWABLE WALL LOADS

HEIGHT	LATERAL LOAD	AXIAL LOAD
9'-0"	61.8 PSF	29.0 PSI



ROOF TO WALL SECTION

NOTES:

1. MOUNT CONDENSING UNIT TO SUPPORT CHANNELS WITH FOUR 3/8" HEX HEAD BOLTS.
2. CONDENSING UNIT CONNECTION CAPABLE OF WITHSTANDING 140 MPH WINDS IN EXPOSURE C IN ACCORDANCE WITH ASCE 7-16 WIND STANDARD.
3. 22 GAGE GALVALUME MAY BE SUBSTITUTED FOR THE .040 ALUMINUM WALLS AND 22 GAGE STAINLESS STEEL MAY BE SUBSTITUTED FOR THE .040 ALUMINUM WALLS.

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LICENSED ARCHITECT C—26053 Ren. Date 08/31/2025 STATE OF CALIFORNIA

CONSULTANT

KAMRAN AND COMPANY, INC.
FOOD SERVICE EQUIPMENT
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CA B CE1C34-887988 CA C38:680904
AZ ROC112017 BE NV C26A:42022 NV C21A:52465

Drawn by:

Check by:

Revisions

No.	Date	Description

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Owner

ROSAMOND HS

2925 WEST ROSAMOND BLVD
ROSAMOND, CA

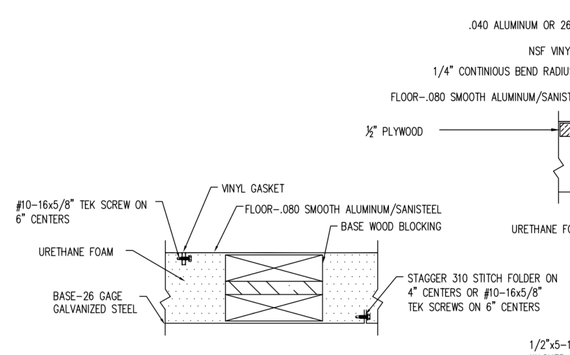
Drawing Title

FABRICATION DRAWINGS ICS

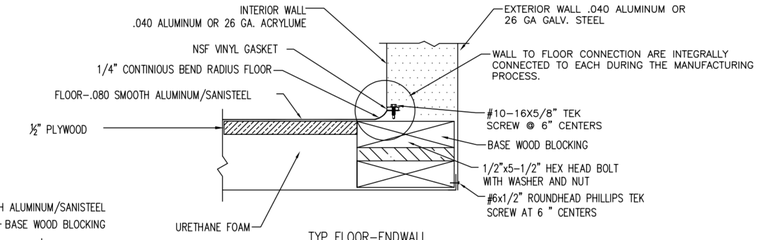
Job No.: Project Number

Sheet No.: **FS-7.29 ICS-127528WL**

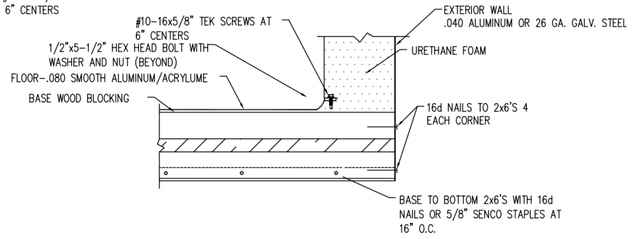
Date: Issue Date



TYPICAL FLOOR SECTION
ALONG LENGTH



TYP FLOOR-ENDWALL
SECTION ALONG LENGTH



FLOOR-ENDWALL
SECTION ALONG WIDTH

NOTES:

1. SKIDS ARE SECURED TO BASE WOOD BLOCKING WITH 1/2"x3" LAG SCREWS EXCEPT AT TRANSPORT CONNECTIONS WHERE 1/2"x5-1/2" BOLTS ARE USED.
   SKIDS ARE USED FOR TRANSPORT AND REMOVED ONCE ON SITE.
2. TOP 2x6 OF BASE WOOD BLOCKING MAY HAVE ONE SPLICE.
3. BASE WOOD BLOCKING CONSISTS OF TWO 2x6'S SYP#2, SPF#1 WITH 3/4" CDX PLYWOOD, WITH 16d NAILS ON 12" CENTERS STAGGERED.
4. BASE WOOD BLOCKING AT EACH END AND AT MAXIMUM 12' SPACING ALONG BUILDING LENGTH.
5. .080 ALUMINUM, .125 ALUMINUM, 18 GAGE STAINLESS STEEL OR SANISTEEL MAY BE USED AS FLOORING MATERIAL
   22 GAGE GALVALUME MAY BE SUBSTITUTED FOR THE .040 ALUMINUM WALLS AND 22 GAGE STAINLESS STEEL MAY BE SUBSTITUTED FOR THE .040 ALUMINUM WALLS.

AGENCY

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122536 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/24/2023

FLEWELLING & MOODY
architects *for* education

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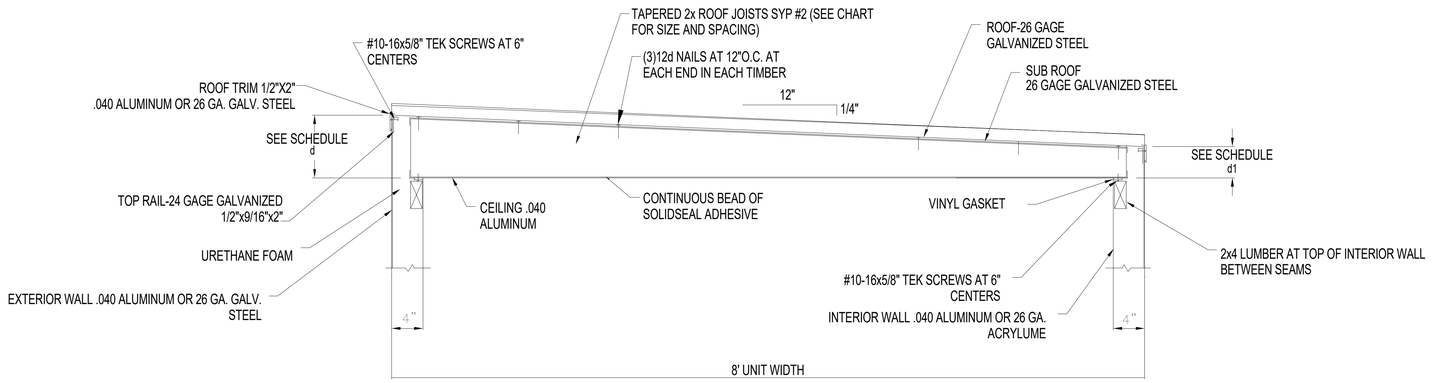

26 GA. GALV. STEEL ROOF & .040 ALUM. CEILING ALLOWABLE UNIFORM ROOF LOAD SCHEDULE

UNIT WIDTH	L (IN)	d1 (IN)	d2 (IN)	d (IN)	SELECTED MEMBER	ROOF JOISTS SPACING 24" CTRS
8'	91"	4.50"	2.00"	6.50"	2x8	219 PSF

ALLOWABLE LOADS ARE BASED ON COMPOSITE ANALYSIS COMPARED WITH TESTED ADHESION VALUES WITH 26 GA. GALVANIZED STEEL ON EXTERIOR AND .040 ALUMINUM SKIN ON THE INTERIOR.

NOTES:

1. LUMBER SHALL HAVE NO LOOSE KNOTS WITHIN 2" OF SAWN EDGE AND NO KNOTS LARGER THAN 1-1/2" DIAMETER WITHIN 1" OF SAWN EDGE.
2. MAXIMUM SPACING TO FIRST ROOF JOIST FROM INSIDE FACE OF PARALLEL WALL NOT TO EXCEED JOIST SPACING AT SCHEDULE.
3. 22 GAGE GALVALUME MAY BE SUBSTITUTED FOR THE .040 ALUMINUM WALLS. 22 GA. STAINLESS STEEL MAY BE SUBSTITUTED FOR THE .040 ALUMINUM WALLS.

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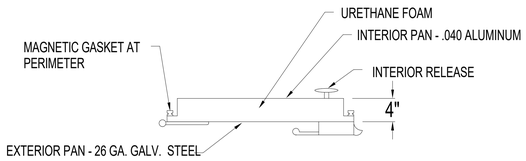
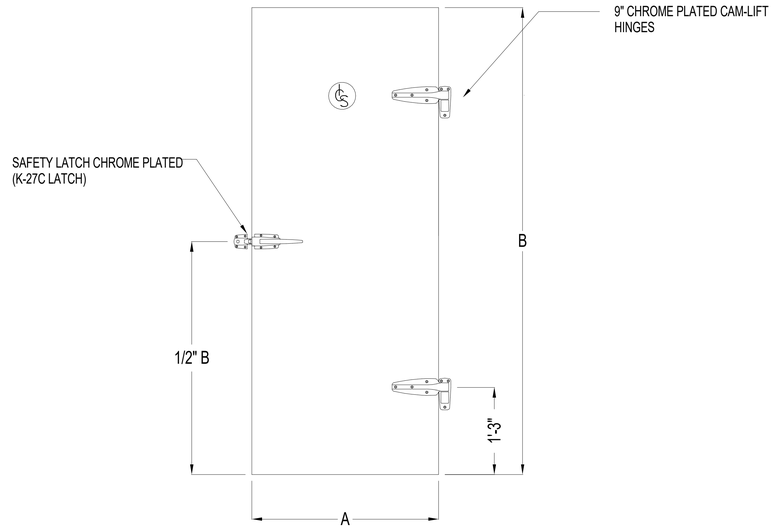


SECTION A - A

NOTE:

1. 22 GAGE GALVALUME OR 22 GAGE STAINLESS STEEL MAY BE SUBSTITUTED FOR THE INTERIOR OR EXTERIOR DOOR PAN.
2. DOOR PANELS ARE COVERED UNDER UL LISTED COMMERCIAL WALK-IN FILE #E80497.



TYPICAL 36" DOOR

DOOR SIZE	A	B	DOOR
36x78	36	80	D-01

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FS-7.32
ICS-127528DR

ENGINEERING SPECIFICATIONS (REFRIGERATION)

POWER SUPPLY: 208-230V/ PH/60HZ 3 — FUSE SIZE: AMPS 60
CALCULATED MOPD = AMPS 51 — MINIMUM AMPACITY AMPS 31.6

WALK-IN INFORMATION			COMPRESSOR INFORMATION									EVAPORATOR INFORMATION												TIME CLOCK	ELECTRICAL INFO TOTAL LINE AMPS			LINE SIZE CONNECTIONS		ADDITIONAL INFORMATION					
REFRIGERATION CONDITION	CONDENSING UNIT	ROOM TEMPERATURE (F)	SUCTION TEMP (F)	REFRIGERANT	TYPE	COMPRESSOR MODEL	H.P.	RATING @ 60 Hz				TD (100°F)	DEFROST	QUANTITY	EVAPORATOR MODEL	RATING @ 60 Hz							SUPPLY CODE		L1	L2	L3	SUCTION	LIQUID	RECEIVER	ACCUMULATOR		SYSTEM REFRIGERANT CAPACITY	TOTAL LINE DISTANCE
								RLA	LRA	V	PH					1 Ø FAN		HEATER																
																RLA EACH	RLA TOTAL	V	AMPS	V	PH	HZ												
FREEZR	RFC600L4SEANT	-10	-20	448	Z	ZS18KAE-TFV	6.00	21.5	158.0	230	3	9.4	E	2	RL6E090DDARE	.50	1.0	230	24.4	230	1	60	HTPG	ECONET	120	120	120	7/8"	3/8"	STANDARD	N/A		28.0	25

C US LISTED CONDENSING UNIT

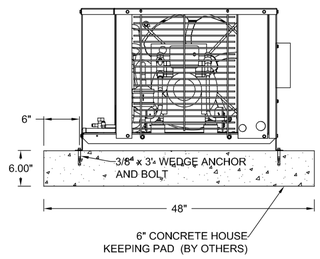
COMPRESSOR OPTION:
SCROLL Z
HERMETIC H
SEMI-HERMETIC S
DISCUS D

CONDENSING UNIT OPTIONS:
- HEAD PRESSURE CONTROL
- CRANK CASE HEATER
- FAN CYCLE SWITCH
- RECEIVER

DEFROST OPTIONS:
ELECTRIC (TIMED) E
HOT GAS (TIMED) H
OFF CYCLE (TIMED) O
C.T.M. COILS TO MATCH

* SUPPLY CODES:
HC MANUFACTURER EQUIPPED (ELECTRIC TXV/QRC CONTROLLER)
HTPG MANUFACTURER EQUIPPED (ELECTRIC TXV/ECONET CONTROLLER)
T EXP. T-STAT & SOLENOID SHIPPED INSTALLED BY ICS
L EXP. T-STAT & SOLENOID SHIPPED LOOSE BY ICS

- "COMPRESSOR MOTOR PROTECTED UNDER PRIMARY SINGLE PHASE PROTECTION."
- ALL SYSTEMS ENGINEERED WITH R-404A OR R-448A REFRIGERANT. ANY BASES/COILS SUPPLIED BY ICS MAYBE EQUIPPED WITH ELECTRIC EXPANSION VALVE.



A — FRONT GRILL VIEW

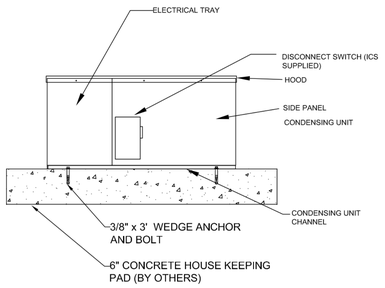
ESTIMATED WEIGHT (LBS.) 253
SOUND DATA dBA 73

RFH300E4SEANT

NOTE:
ELECTRICAL SCHEDULE 40 PVC CONDUIT AND WIRING FROM THE CONDENSING UNIT TO THE EVAPORATOR COIL IS FACTORY WIRED AND TESTED.

ELECTRICAL WIRING HARNESS

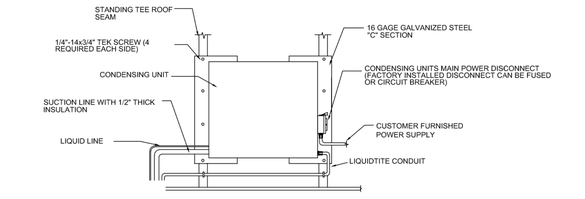
E



NOTE: REFER TO MANUFACTURERS INSTALLATION DETAILS FOR ANCHOR PLACEMENT

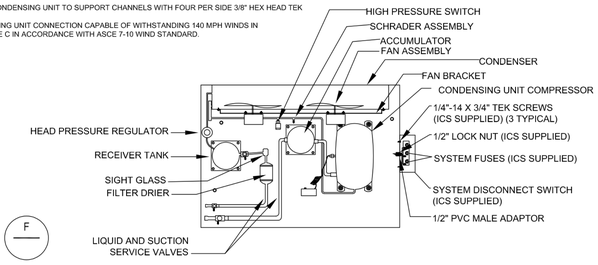
B — SIDE VIEW

ELECTRICAL CONTROL PANEL

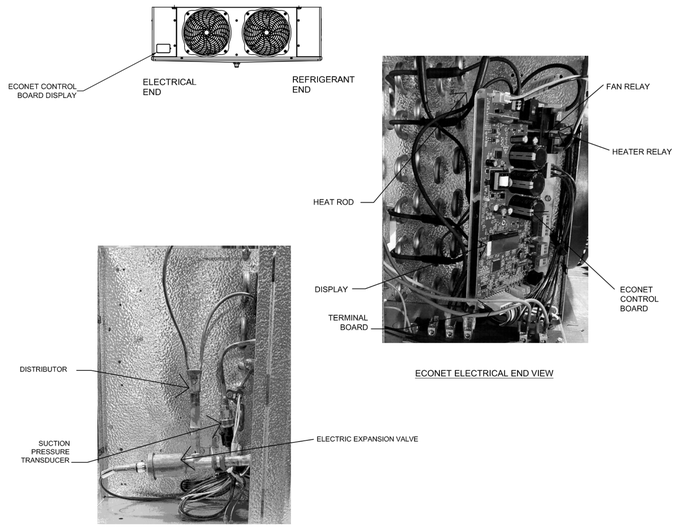


TOP VIEW

NOTES:
1. MOUNT CONDENSING UNIT TO SUPPORT CHANNELS WITH FOUR PER SIDE 3/8" HEX HEAD TEK SCREWS.
2. CONDENSING UNIT CONNECTION CAPABLE OF WITHSTANDING 140 MPH WINDS IN EXPOSURE C IN ACCORDANCE WITH ASCE 7-10 WIND STANDARD.



F — TOP VIEW



ECONET ELECTRICAL END VIEW

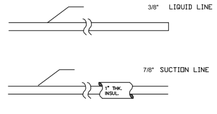
EVAPORATOR PIPING END VIEW

PHYSICAL DATA

*NOTE: EVAPORATOR SUCTION LINE SIZE TO MATCH CONDENSING UNIT LINE SIZE.
FACTORY TO USE BUSHING TO MATCH LINE SIZING

H — UNIT COOLER DETAIL

COOPER LINE - 3/8" LIQUID & SUCTION 7/8"



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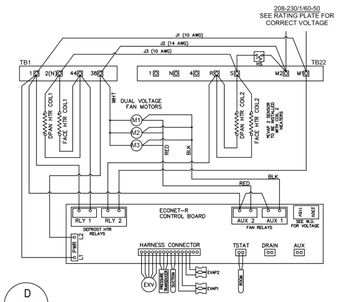
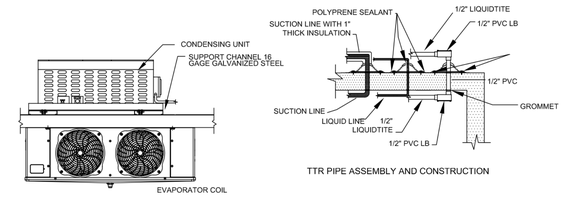


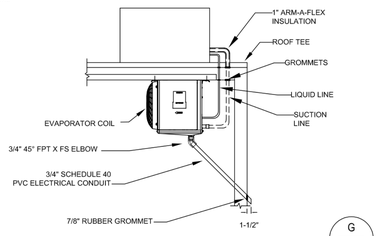
D — ECONET TEMPERATURE CONTROL WIRING COOLER



TTR PIPE ASSEMBLY AND CONSTRUCTION

LINE SIZES		
HP	LIQUID LINE	SUCTION LINE
1.5	3/8"	7/8"

ELECTRICAL SERVICE REQUIREMENTS		
SERVICE AMP	CONDUIT SIZE	WIRE SIZE THWN
20	1/2"	12



G

NOTES:
1. ALL REFRIGERATION PIPING TO BE COPPER REFRIGERATION TUBING.
2. ALL FITTINGS TO BE COPPER.
3. USE GROMMETS WHERE COPPER PENETRATES WALL.
4. ALL ROOF PENETRATIONS ARE TO BE SEALED TO PREVENT AIR AND WATER LEAKAGE INTO THE CONDITION SPACE.

ADDITIONAL REFRIGERATION EQUIPMENT NOTES:
1. REFRIGERATION EQUIPMENT WILL VERY BASED ON INDIVIDUAL ROOM SIZE AND CUSTOMER REQUIREMENTS.
2. REFRIGERATION EQUIPMENT USES R404A REFRIGERANT.
3. REFRIGERANT USED AND EQUIPMENT SIZE IS LISTED ON BUILDING DATA PLATES AND ROOFTOP CONDENSING UNIT.
4. SEE BUILDING DATA PLATE FOR FUSE SIZE INFORMATION REGARDING EACH REFRIGERATION UNIT.
5. CONDENSING UNIT EQUIPPED WITH HIGH SIDE PRESSURE RELIEF VALVE

CONDENSATE NOTES:
1. 3/4" SCHEDULE 40 PVC ELECTRICAL CONDUIT MUST BE USED FOR ALL CONDENSATE DRAINS.
2. CONDENSATE LINE MAY EXIT BUILDING DIRECTLY BEHIND EVAPORATOR OR MAYBE ROUTE ALONG INTERIOR WALLS TO A LOCATION SPECIFIED BY THE CUSTOMER.
3. CONDENSATE DRAINS MAY OR MAY NOT HAVE AN INTERNAL SUBMERSIBLE UL LISTED BRAIDED DRAINLINE HEATER
4. DRAINLINE HEATERS WATTAGE NOT TO EXCEED 12 WATTS PER LINEAR FOOT.
5. DRAINLINES ROUTED ALONG INTERIOR WALLS ARE TO MAINTAIN 1 INCH PER FOOT SLOPE.

CONSTRUCTION NOTES FOR TRADES

GENERAL CONTRACTOR
CONTRACTORS SHALL VERIFY ALL DIMENSIONS AND COORDINATE WITH OTHER TRADES.
ELECTRICAL CONTRACTOR
ELECTRICAL CONTRACTOR TO PROVIDE POWER FOR REFRIGERATION PACKAGE AND CONNECT CONTROL AND DEFROST SYSTEM AS CALLED FOR IN THE WIRING DIAGRAM.
ALL ELECTRICAL WIRING AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE WIRING DIAGRAM AND LOCAL CODES.
PLUMBING CONTRACTOR
PLUMBING CONTRACTOR TO PROVIDE TYPE SCHEDULE 40 ELECTRICAL CONDUIT, PITCHED 1" IF REQUIRED PER FOOT OF RUN.
IF REQUIRED TRAP DRAIN LINES OUTSIDE OF REFRIGERATED SPACE TO AVOID ENTRANCE OF WARM AND MOIST AIR.
ALL PLUMBING INSTALLATION SHALL BE IN ACCORDANCE WITH LOCAL CODES.

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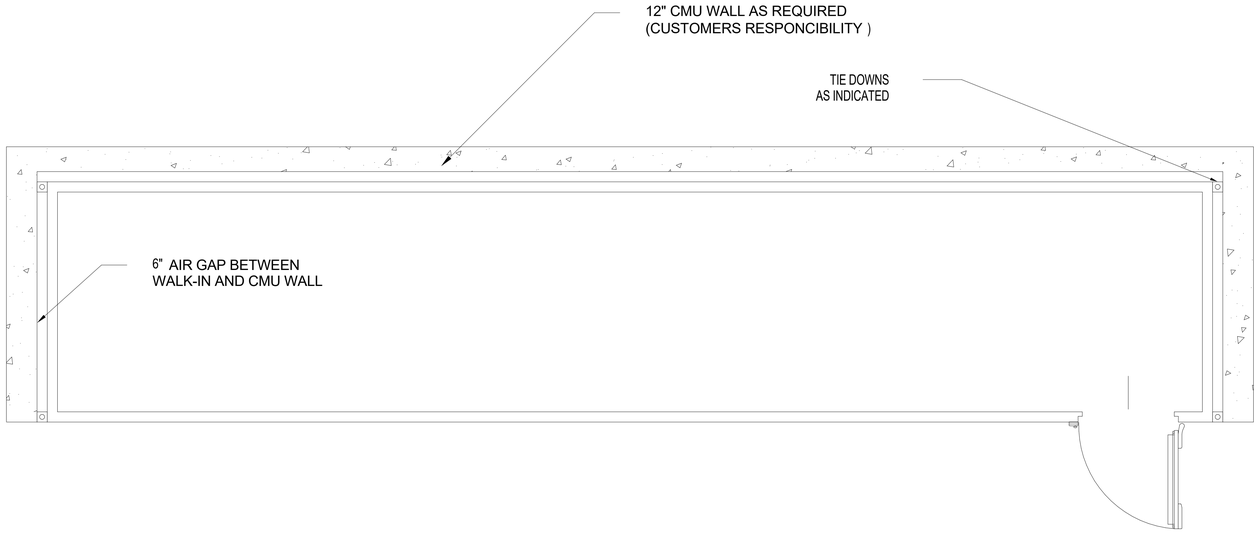


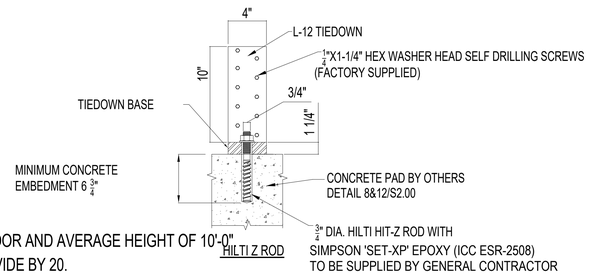
1/4":12 ROOF SLOPE

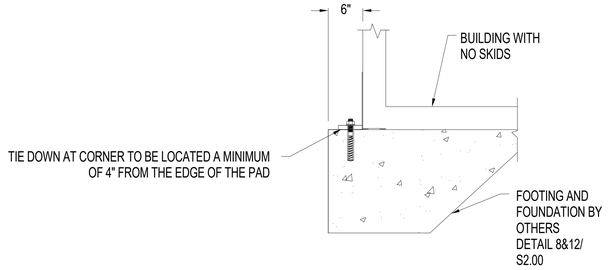
UNIT WIDTH	UNIT DEAD LOAD *1	ROOF LIVE LOAD (20psf)*2	FLOOR LIVE LOAD (100psf)*3
8'	35.7 PLF	80 PLF	350 PLF

FOUNDATION NOTES:

1. 3000 PSI MINIMUM COMPRESSIVE STRENGTH CONCRETE AT 28 DAYS.
2. MINIMUM SOIL BEARING CAPACITY SHALL BE 1500 PSF.
3. INSTALLATION OF FOUNDATION IS RESPONSIBILITY OF CUSTOMER.
4. FINISH EDGES OF SLAB WITH 1/8" SLOPE FROM BUILDING TO EDGE.
5. WHEN ICS STORAGE UNIT IS ADJACENT TO ANOTHER BUILDING REDUCE OVERALL WIDTH BY 6".
6. 8" MINIMUM CONCRETE DEPTH REQUIRED AT TIE DOWN.
7. MINIMUM OF FOUR TIE DOWNS REQUIRED PER BUILDING. INSTALL AT CORNERS OF EACH END WALL. SEE APPENDIX C FOR NUMBER OF REQUIRED TIE DOWNS.
8. FOUNDATIONS/FOOTINGS BELOW FROSTLINE ARE REQUIRED FOR ALL BUILDING DESIGNS.
9. FOOTINGS AND CONCRETE PADS ARE TO BE DESIGN TO MEET LOCAL SITE SPECIFIC CONDITIONS BY A QUALIFIED ENGINEER OR ARCHITECT.

FIELD WORK ALL DETAILS THIS SHEET ARE BY OWNER.





*1 DEAD LOADS ARE FOR UNITS WITHOUT WOOD FRAMED ROOF OR FLOOR AND AVERAGE HEIGHT OF 10'-0"

*2 FOR LOADS GREATER THAN 20psf, MULTIPLY THIS VALUE BY THE ACTUAL LOAD AND DIVIDE BY 20.

*3 FOR LOADS GREATER THAN 100psf, MULTIPLY THIS VALUE BY THE ACTUAL LOAD AND DIVIDE BY 100.

AGENCY

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122536 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/24/2023

FLEWELLING & MOODY
architects *for* education

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An Employee Owned Corporation

ARCHITECT

LICENSED ARCHITECT
C—26053
Ren. Date 08/31/2025
STATE OF CALIFORNIA

CONSULTANT

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FOOD SERVICE EQUIPMENT
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Santa Barbara, California 93101
phone: (805) 963-3016 or (800) 480-9418
fax: (805) 562-5915 email: cad@kamranco.com
CA B C61/D34:687980 CA C38:686904
AZ.ROC112017 BE NV C26A:42022 NV C21A:52465

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Check by:

Revisions

No.	Date	Description

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Owner

ROSAMOND HS

2925 WEST ROSAMOND BLVD
ROSAMOND, CA

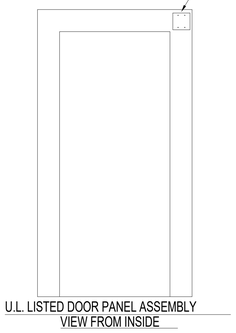
Drawing Title

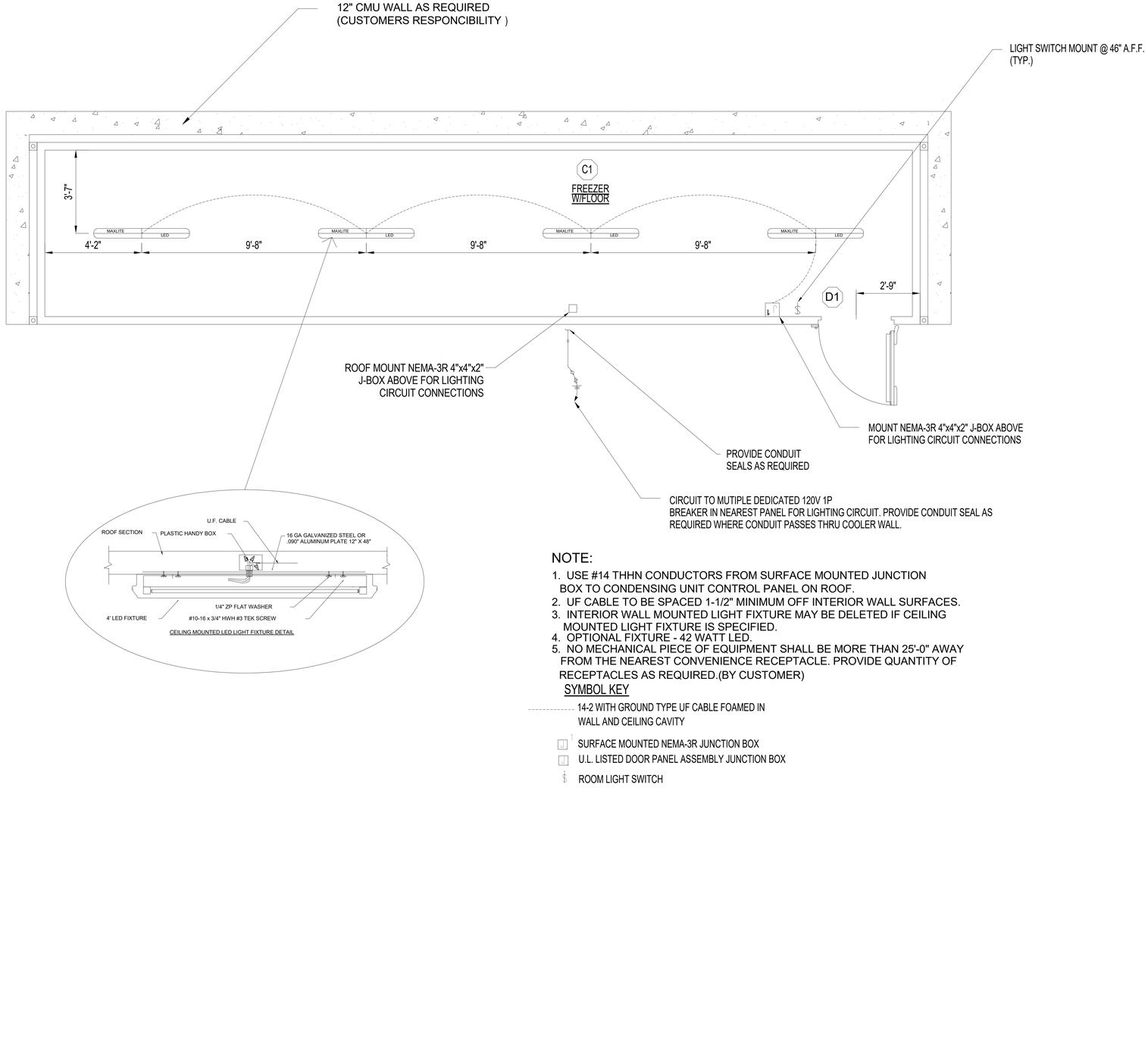
FABRICATION DRAWINGS ICS

Job No.
Project Number

Sheet No.
FS-7.34
ICS-127528TDD

Date
Issue Date





NOTE:

1. USE #14 THHN CONDUCTORS FROM SURFACE MOUNTED JUNCTION BOX TO CONDENSING UNIT CONTROL PANEL ON ROOF.
2. UF CABLE TO BE SPACED 1-1/2" MINIMUM OFF INTERIOR WALL SURFACES.
3. INTERIOR WALL MOUNTED LIGHT FIXTURE MAY BE DELETED IF CEILING MOUNTED LIGHT FIXTURE IS SPECIFIED.
4. OPTIONAL FIXTURE - 42 WATT LED.
5. NO MECHANICAL PIECE OF EQUIPMENT SHALL BE MORE THAN 25'-0" AWAY FROM THE NEAREST CONVENIENCE RECEPTACLE. PROVIDE QUANTITY OF RECEPTACLES AS REQUIRED.(BY CUSTOMER)

SYMBOL KEY

- 14-2 WITH GROUND TYPE UF CABLE FOAMED IN WALL AND CEILING CAVITY
- SURFACE MOUNTED NEMA-3R JUNCTION BOX
- U.L. LISTED DOOR PANEL ASSEMBLY JUNCTION BOX
- ROOM LIGHT SWITCH

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Owner

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ROSAMOND, CA

Drawing Title

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Job No.
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FS-7.35
ICS-127528LD

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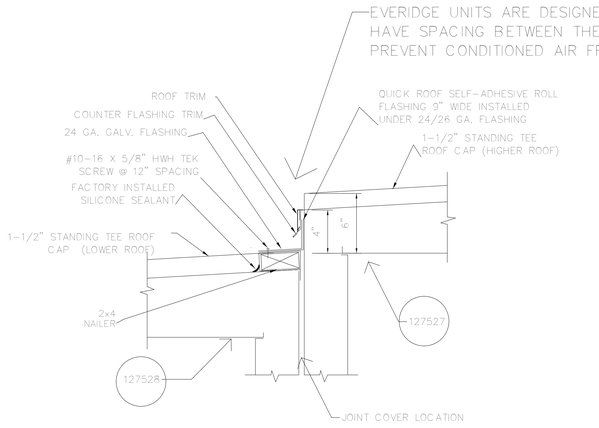
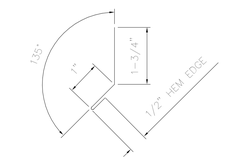
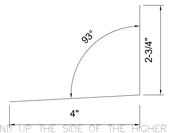
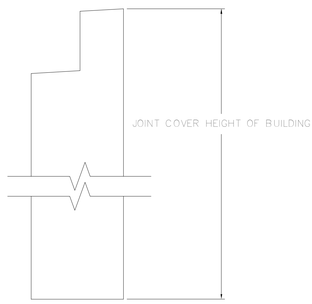




COUNTERFLASHING TRIM .032 ALUMINUM (MATCH BUILDING COLOR)



FLASHING 24 GAUGE GALVANIZED



12" SIDING JOINT COVER
SIDING TO MATCH BUILDING COLOR

NOTES:
1) APPLY QUICK ROOF SELF ADHESIVE FLASHING TO THE 2X4 NAILER OF THE LOWER ROOF AND UP THE SIDE OF THE HIGHER ROOF BUILDING. QUICK ROOF MUST BE ADHERED TO AND COVER 2X4 NAILER.
2) INSTALL THE 24 GA. GALV. FLASHING UNDER THE COUNTER FLASHING TRIM AND ON TOP OF THE 2X4 NAILER. ATTACH THE 24 GA. GALV. FLASHING TO 2X4 NAILER WITH #10-16 X 5/8" HWH TEK SCREWS ON 12" SPACING.
3) IF MORE THAN ONE PIECE OF QUICK ROOF AND/OR 24 GA. FLASHING IS USED, OVERLAP JOINTS A MINIMUM OF 6".

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