COASTSIDE FIRE PROTECTION DISTRICT

ADDENDUM NO. 6
Dated Tuesday, October 26, 2026

FIRE STATION #44 REPLACEMENT PROJECT

Notice is hereby given to prospective bidders that the Project documents for the subject project are modified as set forth in the following addendum. This addendum must be attached to, and form a part of, the bid submitted by each bidder.

The deadline to submit bids is 2:00 PM on Tuesday, November 3, 2026.

THE FOLLOWING CHANGES AND CLARIFICATIONS ARE MADE:

(None)

BELOW ARE RESPONSES TO QUESTIONS RECEIVED FROM BIDDERS:

(See **attached** spreadsheet of questions and responses)

Attachments to this Addendum No. 6

(all changes to the Specifications and Plans listed below arising from this addendum are clouded)

1. Specification 05 40 00 (supersedes prior version)
2. Specification 07 41 13 (supersedes prior version)
3. Specification 09 50 00 (supersedes prior version)
4. Specification 09 77 33 (supersedes prior version)
5. Specification 11 90 00 (supersedes prior version)
6. Specification 14 21 00 (supersedes Specification 14 21 23)
7. Specification 26 00 00 (supersedes prior version)
8. Specification 26 31 00 (supersedes prior version)
9. Specification 26 36 00 (supersedes prior version)
10. Specification 27 51 30 (supersedes prior version)
11. Plymovent Data Sheets
12. Revised Architectural Plan Sheets (all sheets supersede prior versions)
13. Revised Mechanical Plan Sheets (all sheets supersede prior versions)
14. Revised Plumbing Plan Sheets (all sheets supersede prior versions)
15. Revised Electrical Plan Sheets (all sheets supersede prior versions)

If there are any questions regarding this addendum, please contact Sean Rose, Contract Project Manager for Coastside Fire District, at sean@srroseengineering.com.

Coastside Fire Protection District - Fire Station 44 Replacement Project - Addendum 6			
RFI	**Question**	**Response**	**Attachment / Exhibit**
1	I see the solar system size spelled out clearly, and the title 24 says a battery is required, along with the specifications however, I do not see anything in the plans in regard to required battery size. Please advise	Title 24 Form NRCC-SAB-E (Page 2 of 5) does not indicate batteries are required. Section 263100 Part 2 (Products) do not specify battery storage equipment. Section 263100 Part 1 has been revised to remove reference to "battery storage".	26 31 00
2	The four (4) skylights at the higher roof as seen on A4.1 have a constructability issue. The tubes are lined up on the roof and all four (4) units stretch out about 12-15' into its own diffuser box. This type of design is not a problem if at least 36" is available (see attached). As seen on A5.2, detail 2, only 2'-1", or 25" is made available. between the Top of Plate and the Bottom of Ceiling. There is not enough room to stretch out and make these turns.Avoiding Solatube's 0-90 degree extension tubes are ideal if 36" is not available. A straight shot down from top of roof to bottom of ceiling (as designed in the lower roof) would be much more cost effective.Please advise.	Provide all four skylights as shown on the drawings and specified. Skylights over the apparatus bay shall be relocated to provide a direct, unobstructed vertical opening. Refer to revised Architectural Drawing A4.1 for revised locations. All associated structural and roofing details shall be coordinated accordingly.	A4.1
3	I see the door schedule lists 3 overhead doors (106C, 116D and 117A). The door details call for overhead coiling doors but the spec is calling for sectional doors. The plans suggest these should be roll-up coiling doors but there is no spec for coiling doors. Please advise what type of overhead doors we should quote.	See addendum 2 for clarification rgarding overhead coiling doors.	
4	The door schedule shows two bi-fold doors, but I do not see a spec for these doors. Please provide the spec sheet for these doors.	See addendum 2 for clarification regarding bifold doors.	
5	What is the requested PV DC system size? The SLD shows a 30kW AC PV Inverter and the Architectural Roof Plan shows solar areas for up to 38kW DC, which would agree with each other.	Per Section 263100, Part 1, Item 1.02.B an 8.8kW DC system is required. The inverter rating indicated on E0.2 and Section 263100, Part 2, Item 2.01 has been revised to 10kW. Per Code, the total solar access area is required to be indicated on plan. The 8.8kW ssytem may be placed at any of the locations indicated on plan. Refer to E2.6 for preferred PV module location.	26 31 00
6	Please confirm whether the Coastside Fire Protection District will retain a Construction Management firm to administer and oversee construction on the Owner's behalf. If so, please identify the firm and clarify its responsibilities and authority relative to the Owner's Project Manager and Architect.	Staff is recommending that the Fire District Board approve a contract with Swinerton Management and Consulting for construction management and inspection. Ultimate authority rests with the Fire District as the owner. The Fire District has retained Sean Rose of SREI to continue as the Project Manager as it’s representative for this project.	
7	Please confirm the minimum staffing requirements for the General Contractor, including the Project Manager, Superintendent, Project Engineer, Safety Manager, Scheduler, and other key personnel	The project specifications make reference to certain representatives from the General Contractor having specific responsibilities. Otherwise, staffing is left to the General Contractor to determine.	
8	Please confirm whether the General Contractor is required to provide a dedicated Quality Control Manager or Quality Control Representative.	Bid per plans and specifications. Particular reference is made to Section 01 40 00.	
9	Section 01 50 00 requires a furnished common-use field office for the Owner, Architect, and construction personnel. Please confirm whether this office must also accommodate the Construction Manager and inspection agencies. Please identify the designated or available on-site locations for the temporary office, construction trailer, material laydown, and staging areas.	See Addendum # 1, question and response #1 regarding job site trailer/office. Regarding material laydown and staging areas, see Section 01 50 00, subsection 1.3.A and clarification above under “Contractor Use of Site”.	
10	Please confirm whether the Owner intends to pursue LEED certification for this project.	No.	
11	Section 01 91 13 establishes commissioning requirements and identifies responsibilities for a Commissioning Authority and Contractor's Commissioning Coordinator. Please confirm whether the Commissioning Authority will be retained and paid directly by the Owner.	Commissioning Authority will be retained and paid by the Owner.	
12	Section 01 31 00 requires coordination drawings, incorporation into a Building Information Model, and three-dimensional conflict analysis, and indicates that Revit drawing files will be furnished by the Architect. Please confirm whether the General Contractor is required to develop and maintain a coordinated 3D BIM model incorporating mechanical, electrical, plumbing, and fire protection systems. Will the Design Team provide an existing building Revit model suitable for coordination, or only digital drawing files? Please also identify any required BIM level of development, clash-detection procedures, and model deliverables.	Disregard the BIM incorporation and maintenance requirements. Incorporation of project information into a BIM model and ongoing BIM model maintenance are not required for this project.	
13	The Contract Documents establish 500 calendar days to Substantial Completion and 545 calendar days to Final Completion from the Notice to Proceed. Please provide the anticipated Notice to Proceed date and identify any mandatory interim construction milestones, phased turnovers, or occupancy deadlines that must be incorporated into the Contractor's baseline schedule.	See Addendum # 1, question and response #3 regarding contract time and Notice to Proceed Date. Regarding construction milestones, phased turnovers, or occupancy deadlines, bid per plans and specifications.	

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14	Due to potential procurement lead times for electrical switchgear, generators, and other major equipment, please confirm whether the Owner will consider issuing the Contract while deferring the Notice to Proceed if documented equipment lead times would otherwise prevent completion within the specified Contract Time. If the Notice to Proceed is issued before such equipment can reasonably be procured and delivered, please clarify whether documented delays beyond the Contractor's control will qualify for a Contract Time extension.	See Addendum # 1, question and response #3 regarding contract time and Notice to Proceed Date. Procurement lead times shall be taken into account by the Contractor prior to bidding, and identification and ordering of long lead time items as early as possible shall be the sole responsibility of the Contractor. Per the specifications Contractor may apply for Contract Time extension, however it must be supported by evidence that the delay could not have been avoided and was beyond the contractor's control to be considered. See Section 00 7200 for additional information.	
15	Section 01 40 00 states that the Owner will engage a qualified testing agency or special inspector for required special inspections. Please clarify responsibility for arranging and paying for routine jurisdictional inspections and other testing not expressly identified as Owner-provided.	The District has retained BAGG Engineers for Special Inspection. Permitting inspections will be paid by Contractor per Allowance in Bid Schedule.	
16	Please clarify responsibility for obtaining and paying for building permits, grading permits, encroachment permits, utility connection permits, and other permits and associated agency fees required for construction. Identify any permits and fees already obtained or paid by the Owner.	The attached Revised Bid Schedule has been amended to include a $50,000 allowance for permitting costs to be paid by the Contractor. District shall reimburse contractor at cost (no markup) upon valid receipt of cost paid by Contractor.	
17	Section 01 32 00 requires a CPM baseline schedule, periodic schedule updates, and participation by the Contractor's Scheduler. Please confirm whether the General Contractor must retain an independent professional scheduling consultant or whether the Contractor's qualified Project Manager or other qualified employee may prepare and maintain the schedule. Please also confirm whether the CPM schedule must be cost-loaded, manpower/crew-loaded, or resource-loaded, and identify any required integration between the CPM schedule and the Schedule of Values.	If the Contractor repeatedly submits schedules that are unsatisfactory or require multiple revisions due to inaccuracies or deficiencies, the District shall reserve the right to request a replacement scheduler who can consistently deliver accurate and acceptable schedules in a timely manner. For example, the Baseline schedule shall be submitted prior to the Precon Conference, shall comply with the contractual duration and completion milestones as indicated in Section 00 1113, shall not show an early completion, shall show one clear critical path (longest path), shall not have activities longer than 21 calendar days, shall be developed using Primavera P6 or other capable software to calculate the critical path. (Remove reference to SureTrak – that is no longer available)	
18	Appendix 3 contains the Terracon Hazardous Materials Survey Report identifying asbestos-containing and lead-containing materials within the existing structures scheduled for demolition. Please confirm whether the Owner will complete all required hazardous-materials abatement before the General Contractor commences demolition or whether the Contractor must include this work in its Base Bid. If the Contractor is responsible, please provide a complete abatement scope identifying the materials, locations, estimated quantities, removal limits, applicable abatement specifications, testing, clearance requirements, and disposal responsibilities. If the quantities cannot be established before bidding, please provide a defined allowance or unit-price schedule so all bidders price the same scope.	No removal or abatement has occurred. Contractor is responsible for removal and abatement in its Base Bid. Meet the requirements stated in the Terracon report. Include abatement in Base Bid.	
19	Please confirm whether any asbestos-containing or lead-containing materials identified in the Terracon survey have already been removed or abated. If so, please provide the corresponding abatement completion reports, clearance documentation, and an updated list of remaining materials. For hazardous materials not identified in the Owner-provided surveys or other Contract Documents, please clarify the procedure for evaluating and compensating unforeseen abatement, handling, disposal, and associated schedule impacts.	No removal or abatement has occurred. Contractor is responsible for removal and abatement in its Base Bid. Meet the requirements stated in the Terracon report. Include abatement in Base Bid.	
20	Section 31 23 33 indicates that trench dewatering may be necessary and assigns dewatering operations and permits to the Contractor. Please identify the anticipated excavation locations and depths where groundwater or other subsurface water is expected to require dewatering. Please also identify any known discharge restrictions, treatment requirements, groundwater disposal limitations, or special permit conditions that must be included in the Base Bid.	Contractor shall provide trench dewatering, permits, handling, treatment, and lawful discharge/disposal as required by Section 31 23 33 and applicable San Mateo County, Regional Water Quality Control Board, and other agency requirements. Site groundwater conditions can vary; no guarantee is made that groundwater will or will not be encountered. Include reasonable means and methods in the bid and do not discharge turbid water to storm drains or neighboring property. Any materially differing concealed conditions shall be handled under the Contract.	
21	Please confirm whether excavated native soils may be reused as structural fill or general backfill, subject to the Geotechnical Engineer's acceptance.	Per Section 6.4.1 of the geotech report, yes provided the soils do not contain deleterious matter, organic material, or cementations larger than 6 inches in maximum dimension.	

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22	Appendix 4 includes a Hazardous Waste Tank Closure Certification. Please confirm whether the referenced tank closure has been fully completed and accepted by the applicable regulatory authority. Please identify whether any remaining tanks, piping, contaminated soil, groundwater, or other associated remediation work must be included in the Contractor's Base Bid. If no additional remediation is required, please confirm that no further tank-related removal, disposal, testing, or soil remediation is anticipated under this Contract.	No tank closure is completed. Tanks, piping and any other remediation work should be included in the Base Bid.	
23	The structural details show 2x4 frat furring walls on both sides of concrete walls (S3.2), however the details on architectural drawing show the metal furring channels on the concrete walls (A9.3). Please clarify which one is correct.	Provide furring as shown in the structural drawings.	
24	On the 1-1/4” / 1’ two (2) roofs, some plans call out for shingles and others call out for standing seam roofing. Can you please clarify what you want us to bid? Please note that, per roofing standards, that is not enough slope to install shingles.	Provide standing seam roofing. See added spec section 07 41 13, and updated detail sheet A9.1	07 41 13, A9.1
25	Is that flat roof going to be sloped by others or do you want us to slope it?	Structural drawings indicate that roof members are to be sloped in coordination with the Architectural Roof Plan. Contractor shall provide all required tapered insulation and crickets to achieve positive drainage in accordance with the plans, specifications, and roofing manufacturer’s requirements.	
26	Do you want us to Fully Adhere the TPO or do we mechanically attach it?	Provide full adhered system as noted in specification 07 65 23.	
27	Please confirm if ASIC certification is required.	Structural steel fabrication and erection shall comply with the applicable AISC standards and project specifications. AISC certification of the fabricator or erector is not specifically required unless expressly indicated elsewhere in the Contract Documents. All required welding, bolting, testing, and special inspections shall be performed in accordance with the Contract Documents and applicable code requirements.	
28	07 27 26 specifies fluid-applied DuPont Tyvek Fluid Applied WB+ (2.2.A, 3.4). The drawings call "(2) LAYERS WEATHER RESISTIVE BARRIER" (11, 12, 15/A9.1), "WEATHER-RESISTIVE BARRIER PAPER PER SPECS" (14/A9.1), "FIBER CEMENT SIDING OVER WEATHERLAPPED BLDG. PAPER" (2/A7.3) and "2" SAM W/ WEATHERLAP" (3/A9.1). Please confirm the WRB behind fiber cement at Wall Types C6/C10 is 07 27 26 fluid-applied WB+ only, with no additional sheet layer.	Provide the fluid-applied water-resistive barrier (WRB) as specified in section 07 27 26. Provide all required drainage provisions, flashing, and transitions to maintain a continuous WRB and ensure positive drainage.	
29	04 73 00 (rev. Addendum 2) 2.4.B and 3.3.B have the stone installer provide two layers of Tyvek Commercial Wrap. 07 27 26 3.4.C applies the membrane to "required" exterior wall substrates. Is 07 27 26 fluid membrane required beneath the 04 73 00 underlayment at stone areas, or does the 04 73 00 two-layer system serve as the WRB there?	Provide Fluid Applied WB as the primary water-resistive barrier (WRB) throughout the project as described in spec section 07 27 26. At adhered stone veneer assemblies installed over metal lath and mortar, provide CommercialWrap (as noted in 04 73 00) as the secondary WRB layer over the fluid-applied membrane. Install both layers in accordance with the manufacturer's written instructions and applicable code requirements, including 2022 CBC Sections 1404.10.1.1 and 2510.6, as applicable. Coordinate all WRB layers, flashings, weep screeds, penetrations, and terminations to maintain continuity and provide positive drainage.	
30	07 21 15 1.3.A.7 lists "Fluid Applied Membrane Applied to Concrete: Section 07 27 26" as part of the NFPA 285 assembly, but 5/A9.3 and 12/A9.1 do not show a membrane on the concrete face. Please confirm the membrane is required on the exterior face of all Type E (E8/E12) concrete walls behind the XCI Ply panel, and confirm the extent and height of those walls.	Provide fluid applid membrane at all exterior walls including the concrete walls referenced.	
31	Addendum 2 Section 07 46 47 1.2.B lists "07 13 26 Self-Adhering Sheet Waterproofing" and "07 25 00 Weather Barriers" as related sections. Neither section is in the Project Manual, and 07 46 47 Part 3 includes no WRB installation. Separately, 07 21 15 1.3.A.8 calls for Tyvek Commercial Wrap over the exterior insulation "specified under other sections"; only 04 73 00 specifies it, and only at stone. Please confirm: (a) 07 27 26 fluid-applied WB+ is the WRB behind the Nichiha Ultimate Clip system at stud walls, and no 07 25 00 or 07 13 26 work is intended. (b) Which product and section provide the WRB over the XCI Ply panel where Type E walls receive fiber cement, and whether 07 27 26 fluid WB+ is acceptable there under the NFPA 285 listing.	Provide fluid applid membrane behind Nichiha panels as referenced in spec sction 07 27 26.	
32	07 27 26 2.2.A and 3.4.E call for 25 mils applied in one coat. 1.5.C bases the vapor permeance on "25 mils dry film thickness," and 3.5.C.2 lists dry film thickness as an inspection item. The DuPont WB+ data sheet calls for a single application at 25 mils, verified with a wet mil gauge. Please confirm whether the 25 mil requirement is wet film (per manufacturer) or dry film.	Apply the DuPont Tyvek Fluid Applied WB+ at the manufacturer's specified wet-film thickness, using a wet-film gauge, so that the resulting installed system meets the manufacturer's published requirements and specified performance.	

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33	07 27 26 3.3.F.4 calls for 9" sheet flashing at jambs. We request approval to use DuPont FlexWrap NF (also listed in 2.3) continuously around the full rough-opening perimeter (sill, jambs and head), installed per DuPont's details.	No exception taken to using FlexWrap NF as noted in spec 07 27 26.	
34	30/A8.2 shows cutting flaps in a pre-installed sheet WRB and lapping over casing bead and weep screed, which is a stucco sequence. 07 27 26 3.3.F requires flashing the rough opening first and then applying the fluid membrane. Please confirm 07 27 26 3.3.F governs at fiber cement walls in lieu of 30/A8.2. Please also confirm the lap direction between our membrane and the stone two-layer wrap at the top of the stone wainscot.	At fiber-cement walls using the fluid-applied WRB, follow Section 07 27 26 rough-opening flashing sequence and the WRB manufacturer's details. At the stone wainscot transition, lap the upper WRB over the lower stone-area WRB to drain to the exterior	
35	A7.3 Sections 1, 4 and 5 call "CONTINUOUS THERMAL INSULATION AND AIR BARRIER" at the underside of the cantilevered second floor over the Entry, Balcony and Deck. No product or section is named, and 07 27 26 1.3.C describes an opaque wall assembly. Please identify the product, section and installer for this soffit air barrier, and the required tie-in to the wall membrane.	Provide continuous air-barrier and thermal insulation vertically up the wall to the underside of the deck above. See updated section 1, 4, 5/A7.3.	1,4,5/A7.3
36	A5.1 notes: "COMPRESSION JOINT FLASHING PER MANUF. STD., TYP. FLASHING SHALL OCCUR @ FLOOR PLATE & MAX. 10'-0" O.C." Please confirm whether this is cladding flashing under 07 46 47 or air barrier work. Please also provide a detail showing sheathing and membrane continuity at the second-floor edge, where the floor is concrete on metal deck at steel beams (1, 4/A7.3).	Provide the cladding compression-joint flashing at the floor line and at the maximum spacing indicated, coordinated with the cladding manufacturer's requirements. The air barrier must remain continuous at the floor edge and be sealed to adjacent substrates.	
37	2/A7.3 calls for "perimeter to deck edge transitional flashing (Dex-O-Tex detail W3H) at wall openings" at Doors 201B, 209B and 221A. Please confirm the sill flashing at these doors and that the jamb and head flashing laps over it.	Provide the specified Dex-O-Tex W3H or approved equivalent transitional flashing at Doors 201B, 209B, and 221A. Install sill flashing first, with jamb flashing integrated over the sill in shingle fashion, and maintain a watertight transition to the deck waterproofing.	
38	A4.1 Note 4 references 16/A9.2 for intersecting-wall flashing, but that detail shows "exterior plaster over mtl. lath and bldg. paper." There is no plaster on this project. Please reissue 16/A9.2 for the fiber cement / fluid-applied condition.	See updated detail 16/A9.2	16/A9.2
39	07 27 26 3.3.D requires joint compound at cladding anchors installed before the membrane. The Nichiha clips (5/A9.1) go on after the membrane. Please identify any anchors or brackets to be installed before the membrane (sunshades, signage, awnings, etc.).	Install the Nichiha clip system and other cladding attachments in the sequence required by the approved wall assembly and manufacturer. Any penetrations through the WRB shall be sealed using compatible materials and manufacturer-approved details. Contractor shall coordinate known sunshades, signage, awnings, and other attachments shown in the documents	
40	07 27 26 3.2.J requires bridging of expansion and isolation joints. We found no building expansion joints in the exterior walls. Please confirm none are intended.	No exterior building expansion joints are intended unless shown in the Contract Documents.	
41	Pre-Bid Questions 9 - Doors 3 Glazing Response 3. Provide acrylic vision panels as noted in spec section 08 33 23. Quantity and location as shown on ATTACHED revised sheet A8.1. The drawing shows 4 rows of vision panels but the text reads "Provide 3 Rows". Please advise	Provide 4 rows as indicated graphically on sheet A8.1.	
42	087100 DOOR HARDWARE, pages 19 thru 26 list DOOR Numbers where hardware sets occur however Architectural DOOR SCHEDULE on sheet A8.1 list different hardware set numbers. Which hardware set is correct? Specification or drawings?	See updated sheet A8.1.	A8.1
43	Plan sheet A1.3, details 3, 8 & 10 show elevations of exterior gates, marks G01, G02 & G03. What specification includes the gates, gate frames and their hardware? Specification 08 71 00 page 26, notes at SET 25.0, 'All hdwe by door manufacturer'.	Reference updated sheet A8.1 for gate hardware	A8.1
44	Storefront H has door 221A in it but the schedule shows it to be a wood door. Please confirm this exterior door is to receive a wood door.	Door 221A is to be an aluminum door. See updated sheet A8.1	A8.1
45	Addendum 2, G, K and Q are the be aluminum windows per spec section 085113. Spec calls for All Weather series 6000, they do not make a horizontal sliding window. (I would suggest a Milgard thermally improved nail fin aluminum windows whereas storefront suppliers are not going to have a horizontal sliding window).	See updated sheet A8.1. Windows G, K, are to be awning style. Q is to remain as slider. Contractor to submit product / manufacturer that complies w/ specs and window types.	A8.1
46	1. Linear Metal Ceilings – Specification and Drawings The Project Manual includes Section 09 54 23 – Linear Metal Ceilings; however, linear metal ceilings are not indicated on the drawings, including the Reflected Ceiling Plan (Sheet A3.1) and Finish Schedule (Sheet A10.1). Please confirm whether linear metal ceilings are intended to be included in the project. If so, please provide revised drawings identifying the locations where linear metal ceilings are required.	The basis-of-design product is Armstrong WoodWorks Linear, as indicated on Sheets A3.1 and A10.1. Refer to the revised drawings for clarification of the ceiling layout and installation requirements. Install in accordance with the Contract Documents and manufacturer's instructions.	
47	2. Missing Specification Section for Wood Ceiling Panels The Finish Schedule on Sheet A10.1 identifies AWP-1 as Wood Veneer Ceiling Panel; however, the Project Manual does not include a specification section for wood ceiling panels. Please provide the applicable specification section for the wood veneer ceiling panel system.	The basis-of-design product is Armstrong WoodWorks Linear, as indicated on Sheets A3.1 and A10.1. See attached spec 09 50 00.	09 50 00

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48	3. Clarification of Wood Ceiling System Designations The drawings use three different designations for the wood ceiling system: - The Material Schedule on Sheet A10.1 identifies AWP-1 as wood ceiling panels. - The Room Finish Schedule on Sheet A10.1 shows WF-1 as the ceiling finish in certain rooms. The RCP indicates wood ceilings in these rooms; however, WF-1 is not defined elsewhere in the project documents. - The RCP on Sheet A3.1 identifies the wood ceiling system as SPW. Please confirm whether AWP-1, WF-1, and SPW refer to the same wood ceiling panel system. If these designations represent different materials or systems, please clarify their intended applications and provide the corresponding specifications.	The basis-of-design product is Armstrong WoodWorks Linear, as indicated on Sheets A3.1 and A10.1. Refer to the revised drawings for clarification of the ceiling layout and installation requirements. Install in accordance with the Contract Documents and manufacturer's instructions.	
49	4. Detail Reference Discrepancy – Sheets A3.1 and A9.5 The First-Floor Reflected Ceiling Plan (Detail 1/A3.1) references Detail 18/A9.5 for the vertical trim reveal at the ceiling opening in Room 115. However, Detail 18 does not appear on Sheet A9.5. Please confirm whether the intended reference is Detail 15/A9.5 and revise the drawing callout as necessary.	See detail 15/A9.5 for vertical trim reveal at linear wood ceiling openings.	
50	5. Wood Ceiling Trim at Exposed Edges Per the Second-Floor Reflected Ceiling Plan (Detail 2/A3.1), Rooms 218 and 220 have wood ceilings adjacent to Room 219, which has an open ceiling condition. Please confirm whether all exposed wood ceiling edges at these locations are to receive 6-inch trim per Detail 15/A9.5. If not, please clarify the required edge treatment.	Vertical trim reveal at second floor exposed wood ceiling edges is to be installed per detail 15/A9.5	
51	6. Finish of Trim at Wood Ceiling Edges The Finish Schedule on Sheet A10.1 calls for “matching trim” at exposed areas of the wood ceiling but does not specify the trim finish. Please confirm whether the trim is to receive a premium wood-look finish matching the ceiling or a solid-color painted finish.	Provide trim with a finish matching the adjacent wood ceiling system in color and appearance.	
52	7. FSC Certification Requirement for Wood Veneer Panels Please confirm whether the wood veneer ceiling panels are required to be FSC-certified.	FSC certification is not required for wood veneer ceiling panels.	
53	8. Acoustical Infill for Wood Ceiling System Please clarify whether acoustical infill panels are required for the wood ceiling system. If so, please identify the required infill material and relevant acoustical criteria.	See spec. 09 50 00 section 2.20.a.5. for acoustic infill options. Contractor shall use one of the listed infill options.	
54	Sheet D1.1, keynote E.14, calls for the existing fence along the north and east property lines to remain. Per SS-201 and A1.1.0, the soldier pile wall (P1–P39) is on the property line. Along the east line next to the existing residences, the existing fence appears to be on or directly in line with the pile alignment. Along the north line it appears to be within several feet of it (see Exhibit A). Installing the drilled piers, timber lagging and shotcrete facing can’t be done with the fence in place. Please clarify the following: 1. Can the existing fence at the soldier pile wall be removed for construction? If so, is it to be reinstalled, replaced, or permanently removed? Is the new T.S. fence (32 31.01, 9/A1.3) intended to replace it? 2. The C2 survey labels these fences as chain link (“(E) fence link”), while D1.1 keynote E.14 calls them wood fence. Please confirm the type. 3. The neighbor’s fence and landscaping appear to extend to or past the property line where the property line jogs about 5 ft along the east side (C2; D1.1 demo limit). Please confirm the District will coordinate with the adjacent property owners to clear any improvements on District property within the soldier pile alignment before shoring begins. Please also confirm whether any temporary security or privacy fencing is required for the neighbors during construction.	The existing fence along the east property line is set back several feet from the soldier pile wall and shall be protected in place. Existing fences along the north and northwest property lines may be removed as necessary to facilitate construction. Provide new tube steel fencing along all property lines as shown on revised Sheet A1.1.0. The existing fence along the northwest property line is wood, and the existing fence along the northeast property line is chain-link. The Fire District has been in communication with the property owner to the northwest regarding an existing fence that encroaches onto District property. The Contractor shall provide temporary privacy fencing in this area and take appropriate precautions to protect the neighboring property throughout construction. Coordinate any fence removal or work affecting the neighboring property with the Fire District before proceeding.	A1.1.0
55	Door 218A is scheduled as a single 3'-0" × 7'-0" opening with Hardware Group 19.0; however, the door panel elevation, door material, frame elevation, and frame material are blank. Please provide the required door panel type/material and frame type/material for Door 218A.	See update sheet A8.1	A8.1
56	Section 11 90 00 specifies Mounting Dream MD2296 wall mounts and XD1235 ceiling mount, while Detail 14/A10.2 identifies a Peerless SmartMount articulating wall bracket. Please confirm which manufacturer and mounting assembly shall govern, and whether the specified 17 wall mounts and one ceiling mount remain the required quantities. Please identify the ceiling-mounted television location.	Provide wall mount as noted on detail 14/A10.2.	

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57	Several wall-mounted equipment details reference backing details that could not be located on Sheet A9.3: 1. Television Mounting: Detail 14/A10.2 references Detail 21/A9.3 for television mounting blocking. 2. Markerboard and Tackboard: Details 10 and 11/A10.2 reference Detail 16/A9.3 for typical backing. 3. Ladder: Detail 6/A10.2 references Detail 16/A9.3 for ladder backing. Please provide the correct backing detail references and confirm the required backing material, size, thickness, extent, and attachment requirements for each installation	Reference dteails 1&2/S1.5 for typical details. Provide anchorage / attachment as shown in details.	
58	Section 11 90 00 specifies six Minka Aire ceiling fans. Two fan locations have been identified in Fitness Room 106. Please confirm whether six ceiling fans are required and identify the locations of the remaining four fans, if applicable.	Provide two ceiling fans as shown on plan.	
59	Section 11 90 00 specifies two washers and two dryers. The enlarged plan for Laundry Room 212 appears to indicate one washer and one dryer. Please confirm the required total quantities and identify the installation locations and utility connections for the additional washer and dryer, if both specified pairs are required.	Provide one washer and dryer as shown on plan.	
60	Section 11 90 00 specifies one Landscape Structures Loop Rack. Section 12 93 13 identifies the Ground Control Systems Varsity Bike Dock DV215 as the basis of design. Please confirm the governing bicycle rack manufacturer/model, total required quantity, and installation locations. Clarify whether the two specified products represent separate installations or conflicting requirements for the same installation.	Provide landscape structures loop rack as noted in section 11 90 00 in location shown on sheet A1.1.0.	
61	Section 11 90 00 specifies 21 Korogard GS10 stainless steel corner guards, 4'-0" long with 1" legs. Detail 22/A10.2 indicates stainless steel corner guards with 1½" legs installed to 7'-0" AFF, while Section 10 26 13 also includes corner guard requirements. Please confirm the required corner guard type, dimensions, height, and quantity, and identify which specification governs the stainless steel corner guards.	Provide corner guards that are 7'-0" long with 1.5" corner legs as noted in detail 22/A10.2.	
62	Section 11 90 00 specifies one Husky 12-drawer tool chest and one Husky 9-drawer tool chest. Keynote 11 90.20 identifies the tool chest as N.I.C. Please confirm whether the two specified Husky tool chests are contractor-furnished and installed or excluded from the construction contract.	Tool chest is not in contract as noted on plan.	
63	TA18 is identified on the architectural drawings as a recessed combination toilet tissue dispenser and sanitary napkin disposal unit. However, Section 10 28 13 does not provide a manufacturer or model for TA18. Please provide the required manufacturer and model number for TA18, or confirm whether the specified TA7 Bobrick B-3094 unit is intended to be used at TA18 locations.	Where TA-18 is called out on plan, provide Bobrick B-3094 semi-recessed dispenser (similar to TA-7)	
64	The window notes on A8.1 require vertical louver blinds at non-bunk-room exterior windows and horizontal louver blinds at bunk-room windows. Section 12 24 13 and architectural window-treatment references indicate roller shades. Please confirm whether the required window treatments are louver blinds or roller shades and identify the applicable treatment type for each window.	Provide roller shades as indicated on A8.1 and througout plans.	
65	Detail 12/A10.2 identifies a removable five-sided engineered-quartz shower sill with sealant around the perimeter. The detail does not identify a specific mechanical attachment or removal procedure. Please clarify the intended installation and removal method, including whether the perimeter sealant is intended to be cut and replaced when the sill is removed and how the waterproofing is to be maintained.	Provide the removable engineered-quartz shower sill set in sealant as shown in detail.	
66	The Gate Schedule on A1.1 identifies G01 as a 17'-0" wide × 10'-0" high swing security gate, while the site plan and details on A1.3 identify a sliding security gate. Additionally, the Project Manual does not include a dedicated fencing, gate, or gate-operator specification. Although the drawings identify various gate components and access-control features, the required gate-operator manufacturer, model, and performance requirements are not specified. Please clarify the following: 1. Confirm whether G01 is intended to be a swing or sliding gate and identify the governing gate detail and dimensions. 2. Provide the required gate-operator manufacturer/model or minimum performance specifications, including motor capacity and duty cycle. 3. Confirm whether the gate operator shall include all associated safety devices, vehicle detection loops, keypad/Knox access, radio controls, and access-control interfaces indicated on the drawings.	Provide G01 as the sliding security gate shown on the site plan and A1.3, including operator, card reader, edge/photoelectric safety devices, emergency/manual release, and required access for emergency responders. Gate operator shall comply with UL 325 and ASTM F2200 as applicable.	

Coastside Fire Protection District - Fire Station 44 Replacement Project - Addendum 6			
RFI	**Question**	**Response**	**Attachment / Exhibit**
67	Keynote 11 90.24 on Sheet A6.2 identifies the BBQ as Not in Contract (N.I.C.). However, Specification Section 11 90 00 identifies one Weber Genesis II S-435 natural gas BBQ as required. Please confirm whether the BBQ is to be contractor-furnished and installed or excluded from the contract. If excluded, please confirm whether the contractor is still responsible for the associated gas connection and utility rough-in.	BBQ is to be provided by owner. Contractor is responsible for gas connection and rough-in.	
68	Specification Section 11 90 00 specifies a 12'-0" wide × 4'-6" high sliding map board with one magnetic whiteboard panel, two sliding tackboard panels, and a fixed tackboard backing panel. However, Detail 25/A7.1 indicates two magnetic panels and one tackboard panel, while Detail 4/A10.2 indicates a 10'-0" wide × 4'-6" high assembly. Please confirm the required overall dimensions and panel configuration of the District map board, including the quantity and arrangement of magnetic and tackboard panels. Please identify which detail or specification governs for bidding purposes.	Provide sliding magnetic markerboard / tackboard with recessed linear map light as shown on detail 25/A7.1.	
69	Sheet A6.1 identifies metal storage shelving units (10 56.01) as N.I.C., while Specification Section 10 56 13 specifies four-post metal storage shelving. Additionally, Sheets A6.2 and A7.2 identify metal wire utility shelving systems (10 56.11 and 11 90.23), and A7.2 identifies a ClosetMaid metal mesh pantry system (10 56.16). Please clarify the following: 1. Confirm that the metal storage shelving identified as N.I.C. under Keynote 10 56.01 is excluded from the contract. 2. Confirm whether Keynotes 10 56.11 and 11 90.23 refer to the same shelving system and whether Specification Section 10 56 13 applies to both. 3. Confirm that the ClosetMaid pantry shelving (10 56.16) is included in the contract and provide the applicable product specifications if different from Section 10 56 13. 4. For all contractor-furnished shelving systems, confirm the required quantities, installation locations, and anchorage requirements.	Storage shelving identified on A6.1 and marked with keynote 10 56.01 is not in contract as noted. 10 56.11 and 11 90.23 refer to the same closet made shelving product as noted on A7.2 with keynote 10 56.16. This product is to be installed in the pantry and laundry room as indicated on plans.	
70	The following equipment is identified on Sheet A6.1 but does not have corresponding product requirements clearly identified in Specification Section 11 90 00: 1. 11 90.02 – GridGear Mobile Drying Rack 2. 11 90.03 – GridGear Mobile Hose Storage 3. 11 90.04 – GridGear SCBA Mobile Bottle Cart 4. 11 90.07 – Upright Freezer 5. 11 90.08 – Ice Maker Please confirm the furnishing and installation responsibility for each listed item. For contractor-furnished equipment, provide the required manufacturer/model, quantity, and applicable product specifications, including utility connections and anchorage requirements where applicable	11 90.02 - Gear Cart with mobile hose dryer attachment. https://www.geargrid.com/product/gearcart-hose-dryer-attachment/ 11 90.03 - Gear Grid Heavy-Duty Mobile Storage System – Fire & EMS https://www.geargrid.com/product/heavy-duty-mobile-storage-system-fire-ems/ 11 90.04 - Gear Grid Miami System Fire & EMS - https://www.geargrid.com/product/fire-ems-miami-system/ 11 90.07 - Frigidaire 21 cu. ft. Frost Free Upright Freezer 11 90.08 - Vibekio IM-02 Commercial Ice Maker Machine See attached sheet A6.1 for updated keynotes.	A6.1
71	Sheet A2.2 includes a fire extinguisher cabinet symbol in the floor plan legend; however, the required installation locations and quantities could not be identified on the architectural floor plans. Please identify the required quantities and locations of fire extinguishers and cabinets, including which locations require semi-recessed cabinets versus wall-mounted extinguishers.	See attached sheet A2.2 for FEC locations. Provide a total of 3.	A2.2
72	Specification Section 11 90 00 requires two (2) GE JES2251SJ microwaves and three (3) Samsung RF28HMEDBSR refrigerator/freezer units. However, the architectural elevations identify one (1) built-in microwave and two (2) refrigerator/freezer units. Please confirm the required quantities and identify the locations of the additional microwave and refrigerator/freezer. If the additional specified units are required, please confirm whether they are to be installed, provided as spare equipment, or delivered to the Owner, including any associated utility requirements. Additionally, please confirm whether the specified microwave is intended for built-in installation and provide any required trim kit or installation requirements.	Provide quantity as shown on plan. Microwave is intended to be built-in as noted on A7.1. Provide GE Profile 2.2 Cu. Ft. Built-In Sensor Microwave Oven with 30-inch trim kit JX7230SLSS.	

Coastside Fire Protection District - Fire Station 44 Replacement Project - Addendum 6			
RFI	**Question**	**Response**	**Attachment / Exhibit**
73	Specification Section 11 90 00 specifies thirteen (13) Eley Model 1041-100P wall-mounted garden hose reels and one (1) exterior garden hose reel. Sheet A3.1 also references ceiling-mounted hose reels and cord reels. However, the required quantities, mounting locations, and equipment requirements are not clearly identified. Please clarify the following: 1. Wall-Mounted Garden Hose Reels: Confirm the required quantities, mounting locations, and furnishing responsibility for the specified garden hose reels, including which plumbing hose bibb connections are intended to serve each reel. 2. Ceiling-Mounted Hose Reels: Confirm the required quantity, mounting locations, furnishing responsibility, and product specifications for the ceiling-mounted hose reels. Please confirm these are separate from the specified wall-mounted garden hose reels and provide the required structural support and anchorage details. 3. Ceiling-Mounted Cord Reels: Confirm the required quantity, mounting locations, furnishing responsibility, and product specifications for the ceiling-mounted cord reels, including applicable electrical connections and structural support requirements.	1. Garden hose reels are not required. 2. Provide ceiling mounted hose reels at locations indicated on plumbing plans. See plumbing schedule for make / model and provide blocking as required for installation. 3. Provide electrical cord reels where indicated on E2.2. Provide blocking as required for installation.	
74	Specification Section 11 90 00, Paragraph 2.1.S, and Plumbing Fixture Schedule P0.2 specify one (1) exterior Elkay Model LK4420DB Grey bi-level pedestal drinking fountain with pet fountain. However, Construction Keynote 17 on P2.1 identifies DF-1 within interior Hallway 110.Please confirm whether the drinking fountain is intended to be installed in interior Hallway 110 or at an exterior location. If Hallway 110 is the intended location, please confirm the specified model and whether the pet fountain feature is required	Provide Elkay LZWS-EDFP217K as noted on plumbing fixture schedule. No Pet Fountain required.	
75	Please confirm the required quantity, locations, dimensions, and specifications for locker room benches.	No locker room benches are required.	
76	Please confirm the required wall backing, structural support, and anchorage details for the GearGrid lockers, including whether additional reinforcement is required beyond the details currently shown.	Provide 24" wide x 24" deep standard freestanding lockers (12 total). Anchor to floor per manuf. std. See updated spec section 11 90 00	11 90 00
77	The drawings identify a Balco FMR-A walk-off mat, while Specification 09 68 01 references Balco FM. Please confirm the required manufacturer and model, whether the mat is recessed or surface-mounted, and the applicable frame and installation details.	Provide the Balco FMR-A walk-off mat shown on the drawings. Install per 1/A10.3.	
78	The finish schedule identifies RSN-1 as Tarkett Johnsonite rubber stair nosing, while Detail 16/A9.8 references Nystrom N3E-ECO abrasive stair nosing at the top and bottom of the stairs. Please clarify which stair nosing material is required at each location and whether integral rubber nosings are required with the rubber stair treads.	Provide Tarkett Johnsonite rubber stair nosing and tread as noted on finish schedule.	
79	Addendum 2 provides specifications for rolling and bi-fold overhead doors, while Specification 08 36 13 for sectional overhead doors remains in the Project Manual. Please confirm whether Specification 08 36 13 applies to any doors on this project or may be disregarded.	Specification 08 36 13 is not applicable and may be diregarded.	
80	Please clarify the following elevator requirements: a. Section 1.4.J requires 24 months of full maintenance service, while Section 3.6 requires 12 months. Please confirm the required maintenance period. b. Please confirm whether the elevator is required to operate under generator power during an outage or whether an automatic emergency rescue/lowering system is sufficient. c. The specification references KONE DX500 equipment while also including Otis-specific terminology and components. Please confirm the intended basis-of-design elevator system and acceptable equivalents. d. Please clarify the scope of the in-cab security camera, including furnishing, installation, wiring, and connection to the building security system. e. Please confirm the required emergency telephone connection to CFPD Dispatch, including the communication infrastructure and interface requirements or if manufacturer standard elevator emergency communication is acceptable.	Basis of Design is Kone Monospace 500 DX as noted in spec 14 21 23. Number of stops: 2 Capacity: 2,500 LB. Inside Dimensions: 6'-11 3/4" x 4'-4 7/16" Speed: 150 FPM Power: 208 V 3-phase Maintenance Period: 12 months Elevator is not required to operate under generator power. No in-cab security camera is required. Manufacturer standard elevator emergency communication is acceptable.	14 21 23
81	Addendum 2 specifies Nichiha VintageWood and Illumination fiber cement panels utilizing proprietary attachment systems, while the architectural details reference Hardie Board siding and vertical battens at 24 inches on center. Please confirm the governing siding systems and provide revised attachment, trim, and batten details where necessary.	Fiber cement siding is intended to be installed as noted in addendum 2 and the corresponding Nichiha spec. See updated sheet A9.1 for revised details.	A9.1
82	Specification 07 46 47 identifies factory-finished Nichiha siding in Cedar and Graphite finishes, while Specification 09 90 00 references field painting of factory-primed fiber cement siding. Please confirm whether the specified Nichiha panels are to receive factory finishes only or whether any field painting is required.	Provide factory finishes as noted in 07 46 47.	

Coastside Fire Protection District - Fire Station 44 Replacement Project - Addendum 6			
RFI	**Question**	**Response**	**Attachment / Exhibit**
83	Addendum 1 requires the contractor to verify whether an existing oil pit, oil/water separator, or other underground oil-containing facility exists on-site. To establish a consistent basis for bidding, please clarify the following: a. What specific investigation is required in the base bid (records review, utility scanning/GPR, exploratory potholing, excavation, or other methods)? b. If exploratory excavation is required, please identify the locations, number of test pits, approximate dimensions/depths, and required testing or sampling so all bidders can quantify the same scope. c. If the District cannot establish specific investigation quantities, can a defined allowance or unit-price quantity be provided for bidding purposes? d. If an underground oil-containing facility is discovered, please confirm whether additional investigation, material testing, excavation, permitting, removal, hazardous material handling, remediation, and disposal beyond the defined base-bid investigation will be performed upon Owner direction and compensated by change order.	We are not aware there is an oil pit on the site. No investigation is required.	
84	The generator/fuel tank enclosure appears to consist of two CMU walls, one wood slat fence, and an extension of the concrete retaining wall, with a metal canopy above. Please confirm the intended construction of all four enclosure sides and provide clarification of the connections between the CMU walls, wood slat fencing, and concrete retaining wall, including applicable wall heights, foundations, structural attachments, and finishes. Additionally, please confirm that the enclosure configuration and canopy have been coordinated with the specified generator and fuel tank for required ventilation, exhaust discharge, equipment access, and maintenance clearances.	The generator enclosure consists of CMU walls along the west and south sides and retaining walls along the north and east sides, as indicated on the plans. The generator and enclosure shall be provided as deferred submittals. The Contractor shall obtain the required encroachment permit and coordinate the enclosure design, dimensions, and applicable permit requirements with the governing jurisdiction as part of the deferred submittal process. Final enclosure dimensions shall be reviewed and coordinated through the deferred submittal and permit review.	
85	Specification 07 27 26 requires a fluid-applied membrane air barrier (DuPont Tyvek Fluid Applied WB+), while exterior wall details on Sheet A9.1 reference weather-resistive barrier paper behind the Nichiha fiber cement siding and two layers of weather-resistive barrier behind stone veneer. Please confirm which exterior wall assemblies require the fluid-applied membrane system versus conventional sheet weather-resistive barrier, and whether both systems are required at any locations. Please identify the applicable wall types and provide revised details as necessary.	Provide Fluid Applied WB as the primary water-resistive barrier (WRB) throughout the project as described in spec section 07 27 26. At adhered stone veneer assemblies installed over metal lath and mortar, provide CommercialWrap (as noted in 04 73 00) as the secondary WRB layer over the fluid-applied membrane. Install both layers in accordance with the manufacturer's written instructions and applicable code requirements, including 2022 CBC Sections 1404.10.1.1 and 2510.6, as applicable. Coordinate all WRB layers, flashings, weep screeds, penetrations, and terminations to maintain continuity and provide positive drainage.	
BIDDING PROCEDURES			
86	Due to the number of RFIs listed below, we are requesting the District to extend the bid date 1 week.	(No need to respond as bid was extended to 11/3)	
87	Paragraph 2.02 is titled "Two Envelope Bid Submission," but only Envelope A is described, and 00 11 13 gives no contract number. Please confirm that a single sealed envelope is acceptable, and provide the contract number to mark on it.	"Two Envelopes" is incorrect since Contractor's were prequalified Envelope B does not apply to this bid. Follow bid submittal procedures in Specifications.	
88	Document 00 4314 is listed under "Bid Forms and Bid Submittals" but is not in the Envelope A list in §2.03. Paragraph 3.02.A requires "each of the fully executed documents supplied in this Project Manual." Please confirm whether 00 4314 must be submitted with the Bid.	No. Because bidders were prequalified Form 00 4314 does not need to be submitted with the bid.	
89	Section 12 24 13 §1.2.A calls for a deviation list, integration confirmation, separate interface line items and a manufacturer letter "with Submittal of Bid." Section 27 05 23 §1.04.A asks that proposed substitutions be listed on the bid form. Neither item has a place on Document 00 4113. Please confirm that these are not bid submittal requirements and that a Bid omitting them will not be considered non-responsive.	They are not bid submittal requirements and a Bid omitting them will not be considered non-responsive. Items listed in those sections as being required to be sumitted with Bid, DO NOT need to be submitted with the Bid.	
90	Addendum No. 1, Response #6 states that generator substitution requests "must follow the process outlined in the specifications." The specifications give conflicting processes. ITB §6.08 allows "or equal" requests within 35 days after Notice of Award. Section 01 25 13 requires requests 7 days before bid and prohibits substitutions after award. Sections 08 51 13 and 26 36 00 require submissions 10 days before bid. Section 11 14 60 requires an Owner letter dated 30 days before bid, a date that fell before advertisement. Section 26 00 00 allows 15 days after bid. Please confirm that ITB §6.08 and Public Contract Code §3400 govern, so that "or equal" requests, including for the generator, may be submitted within 35 days after Notice of Award for all products not designated non-substitutable in 00 1113 §2.04.	Confirmed. ITB §6.08 and Public Contract Code §3400 govern, so that "or equal" requests, including for the generator, may be submitted within 35 days after Notice of Award for all products not designated non-substitutable in 00 11 13 §2.04. Also refer to Order of Precedence of Documents in the General Conditions (00 72 00, 1.02).	

Coastside Fire Protection District - Fire Station 44 Replacement Project - Addendum 6			
RFI	**Question**	**Response**	**Attachment / Exhibit**
91	The Bid Form has no allowances. Several items are undefined in the documents, and there should be allowances for undefined scope, including: (a) the TEA alerting system (Addendum No. 1 confirms the GC contracts with TEA, but no scope or price is published); (b) PG&E engineering, service and line-extension fees, which E1.1 Note 1 says are "paid by contractor and reimbursed by owner"; (c) Montara Water & Sanitary District plan check, inspection and connection fees; (d) handling and disposal of petroleum-impacted or otherwise contaminated soil, and of any oil pit or oil/water separator found under amended C2 Note 9; (e) overexcavation and replacement of unsuitable or wet subgrade beyond the limits shown. Will the District add stated dollar allowances for these items to the Bid Form? If not, please state the reimbursement mechanism for (b).	a. Per Addendum 5, TEA will contract with the District. b. PG&E fees have been and will continue to be paid directly by District. c. MWSD fees have been and will continue to be paid directly by District. d. The District is not aware of an oil pit or oil/water separator on the site. e. No. Refer to plans and specifications.	
92	Please confirm that the Project is fully funded for award, and identify any Board or agency approvals still needed before award. Please also state whether any federal or state grant funds are involved that would add contract requirements, for example under Labor Code §1771.1(a), Buy America or Davis-Bacon. B. Status and Precedence of the Contract Documents	Project funding requires no approvals from outside agencies. B. Refer to Order of Precedence of Documents in the General Conditions (00 72 00, 1.02).	
STATUS & PRECEDENCE OF THE CONTRACT DOCUMENTS			
93	Addendum No. 1, Generator Permit clarification and Grading Exception Approval The civil, retaining wall, structural, mechanical and plumbing sheets, and revised sheets D1.1 and E2.5 issued with Addendum No. 1, carry the watermark "This document is for plan review only" / "Not for permitting or construction." Addendum No. 1 references Grading Permit BLD2025-01036 and Generator Permit application BLD2026-00860. Please answer the following: (a) Has the County of San Mateo issued the building permit and the grading and retaining wall permits? If not, when are they expected? (b) Are these sheets the Contract Documents for bidding? (c) Will the District issue a conformed, permitted set, and will changes arising from plan check after bid be handled as Changes under the General Conditions? (d) Will the Engineers of Record re-seal the sheets with current license dates?	a. See items #10 and #14 in Addendum 5. The grading and retaining wall are covered in the Building Permits to be issued. b. Yes, the referenced sheets are for bidding. A conform set will be issued after bidding. c. District will issue a conformed set after bidding. No changes from permit plan check are expected. d. Yes. For the conform set.	
94	The Project Manual contains two sets of Division 01 requirements, District sections 01 1100–01 7700 and Architect sections 01 25 13–01 91 13. They differ on substitution timing, Schedule of Values, staking, meetings, warranty commencement, record documents and TAB. Please state which set governs where they conflict.	Sections 01 1100 through 11 00 77 00 govern where they conflict. Where they don't conflict, both sections govern. Refer to Order of Precedence of Documents in the General Conditions (00 72 00, 1.02).	
95	In addition to identifying the Construction Manager and its authority, please identify the party and address to which the Contractor must send notices, RFIs, submittals, change order requests, claims and pay applications.	This will be clarified at the Preconstruction Meeting, if not sooner.	
96	The documents refer to several agencies and jurisdictions that do not appear to apply to this site: DSA, City of Orange Fire Department, City of Vista Fire Department, SCE, SDG&E, SCAQMD, San Diego APCD, Cox Cable, a "City" Owner, and a school district.Code editions also vary across the documents: 2013, 2016, 2019, 2022 and 2025. Please confirm: (a) the AHJs are the County of San Mateo, CFPD, MWSD, PG&E and BAAQMD; (b) DSA procedures, DSA Inspector of Record requirements and DSA change-document procedures do not apply; (c) the governing code cycle is the 2022 California Building Standards Code, as stated on G0.00.	Refer to the codes, standards, and applicable editions identified on Sheet G0.0, Cover Sheet, and comply with all applicable local amendments, ordinances, and requirements of the authorities having jurisdiction. This includes applicable Coastside Fire Protection District requirements, County grading and stormwater regulations, utility-provider requirements, and other agency permits and approvals applicable to the project site. References to DSA, Orange/Vista Fire, SCE, SDG&E, and San Diego APCD shall not apply unless specifically confirmed as applicable by the design team and the relevant authority.	
97	S1.1 designs to Risk Category IV (Ie = 1.5). The geotechnical report computes seismic values for Risk Category III, and Section 08 80 00 uses Importance Factor 1.25. Please confirm: (a) that Risk Category IV governs all structural and nonstructural design; (b) whether the Essential Services Buildings Seismic Safety Act applies; (c) the gross building area, which is 10,400 SF on G0.20 and 10,178 SF in the Notice Inviting Bids.	a) Risk Category IV governs. Reference to Risk Category III in geotech report is in error, parameters are for Risk Category IV.	
98	The drawings show the following work, but no specification section covers it:fiber cement siding and panels (Nichiha); standing seam metal roofing; bi-fold and overhead rolling doors; glulam members; non-structural metal framing; FRP; cement plaster; exterior sunshades; the sliding security gate and operator; the walnut wood-veneer linear ceiling (09 54 23 specifies a metal ceiling); rubber stair treads; quarry tile base; access control and card readers ("by Security Supplier" per 08 71 00); HVAC controls (Division 25 has no sections).The A10.1 material schedule cites sections that are not included: 09 51 13, 09 68 13, 09 30 Please issue the missing specification sections.12/14/15, 09 65 00, 09 77 33 and 12 48 43. The flagpole is fiberglass on A1.2 and aluminum in 10 75 16.	See addendum 2 for fiber cement siding, bi-fold doors, overhead rolling doors. See attached for standing seam metal roofing, FRP, mteal framing, wood veneer linear ceiling specs Flagpole is required to be aluminum per specs. Provide rubber stair nosing and tread as noted on A10.1, and install per manufacturer's standard. Quarry tile base is not required. Provide metal base as noted on A10.1. See updated detail 17/A8.2 for sunshade information. Include work shown on the drawings and required for a complete installation, even where the specification section is missing, subject to the contract's scope allocation. Use manufacturer requirements and applicable codes; do not omit work solely because a section number is absent.	09 77 33, 07 41 13, 09 50 00, 05 40 00.

Coastside Fire Protection District - Fire Station 44 Replacement Project - Addendum 6			
RFI	**Question**	**Response**	**Attachment / Exhibit**
99	Several drawings reference sheets and details that are not in the set: E3.2 Details 4 and 5 (grounding), E3.5 (lighting control wiring diagram), A1.5, "Sheet A1.1," A9.03, A10.05, A10.6, A7.02, and unresolved "– / ---" callouts on A4.1, A8.2 and A9.2. Please issue the missing sheets or identify the governing details.	Bid per issued contract documents and addenda. Drawings have been cleaned up where missing references have been found. Further missing references that may exist will need to be pointed out directly and we will be happy to update accordingly.	
CONTRACT TIME, SCHEDULE & DELAY			
100	Response #3 amends 00 1113 §1.02 and 00 5200 §1.03(B) to 560 Calendar Days to Substantial Completion, plus 45 days for closeout. Agreement §1.03.C still reads "within five hundred 545 Calendar Days" for Final Completion. Please confirm that §1.03.C is amended to 605 Calendar Days from the Commencement Date. Response #3 also states that Contract Time runs from the preconstruction meeting when the Notice to Proceed is issued. Please confirm that this supersedes GC §5.02, under which Contract Time begins on the 60th day after Notice of Award if no NTP has been issued.	Use only the issued Contract Documents and addenda. References to sheets or details not included in the issued documents shall not be interpreted as instructions to fabricate from unavailable details. The drawings have been revised to address identified missing references. If additional missing or incorrect references are identified, please flag them specifically for review and correction by the design team.	
101	If the Notice to Proceed is issued more than 60 days after Notice of Award, will the District consider an equitable adjustment for the deferral? Will the District pay for long-lead materials stored off-site under 01 2000 §1.04.D, such as the switchboard, generator, ATS, apparatus doors, elevator, VRF equipment and structural steel?	The Notice to Proceed will be issued at the Preconstruction Meeting (no deferral). Regarding payment for materials not yet incorporated into the work, see Section 01 20 00, 1.04D.	
102	Contract Time is in Calendar Days, and work is limited to Monday through Friday, 8:00 AM to 5:00 PM. Please confirm: (a) whether the District holidays listed in 01 4200 are non-work days at the site; (b) whether holidays count against Contract Time, and whether time worked on an approved holiday or weekend is treated any differently; (c) whether a 7:00 AM start, including early concrete placements, will be allowed on the building site subject to County noise limits; (d) whether the weekday 8:00 AM–5:00 PM limit in C1 note 32 applies to on-site work or only to work in the County right-of-way.	a. Contractor should assume they will not be allowed to work on District holidays. b. If Contractor is allowed to work on a holiday or weekend at sole discretion of owner then those days count against Contract Time. c. Any deviation from stated work hours would have to be requested by Contractor in writing and approval at the sole discretion of the Owner. Bidder should assume they will be bound by the work hours listed in the plans and specifications. d. Applies to any on-site work including work in the County right of way.	
103	No weather allowance is stated in Contract Time. Please identify the NOAA station and the baseline average of rain days that will be used under GC §11.06. Please confirm that each qualifying weather day above the baseline that affects the critical path will extend Contract Time one day for one day, as a non-compensable time extension. The winter grading exception attached to Addendum No. 1 permits grading only on dry days, and not within 24 hours after a rain event (Condition 5). Please confirm that days lost to that condition count as weather days when theyaffect the critical path. Please also confirm whether the "Enhanced Erosion and Sediment Control Plan" and the grading schedule submitted with the exception application become Contractor obligations, and provide copies.	Bid per plans and specifications.	
104	Please confirm that delays to the critical path caused by the following, and not caused by the Contractor, are excusable and compensable delays under GC §11.02.A.2 and §11.04, entitling the Contractor to an extension of Contract Time and recovery of its delay costs: (a) the Construction Manager (Swinnerton), acting as the Owner's representative under GC Article 7 and Agreement §2.01.C; (b) District review and approval of the full alerting design, which Addendum No. 1 requires before the Contractor may order materials or begin installation.	Bid per plans and specifications.	
105	For scheduling purposes, please state the review and inspection turnaround times bidders should assume for County building inspections, CFPD fire inspections and plan review of deferred submittals, District review of the full alerting design (Addendum No. 1), MWSD inspections, special inspections, and Architect submittal and RFI review.	The published turnaround times for inspections are as follows: 1. County building and CFPD inspections 24-48 hours advance notice. 2. MWSD inspections 48-72 hours advance notice. 3. Special inspections 24-48 hours advance notice. Architect and District reviews - 10 days. See Spec Section 01 26 13.	

Coastside Fire Protection District - Fire Station 44 Replacement Project - Addendum 6			
RFI	**Question**	**Response**	**Attachment / Exhibit**
106	Section 01 2000 §1.04.A.1 requires the Schedule of Values to be built by assigning dollar values to each Progress Schedule network activity, which makes the CPM schedule cost-loaded. We request that the District delete the cost-loading requirement and allow a Schedule of Values organized by specification section and subcontract, paired with a CPM schedule that is not cost-loaded. Our reasons: (a) Cost-loading is time-consuming to build and to maintain. Every monthly update, change order and schedule revision requires the dollar values to be re-spread and reconciled across activities. That adds scheduling and project-management cost that bidders will carry in their prices, while the Owner and Contractor get little in return on a project of this size. (b) It duplicates the payment controls already in the contract. Progress payments are based on percent complete against the approved Schedule of Values (01 2000, 01 29 00), and the Owner already has the right to review and reject a front-loaded Schedule of Values. (c) It slows payment and review for both parties. Under GC §5.01.B, no progress payment is made until the Schedule of Values and schedule are accepted. Tying the two together means disputes over activity values can hold up both the baseline schedule and the first payment,and they add review time for the District, the Construction Manager and the Architect. (d) The Bid Form is now a single lump sum (Addendum No. 1, Response #5), so activity-level pricing serves no bid-evaluation purpose. A resource-neutral CPM schedule, updated monthly, still gives the District full visibility of progress, the critical path and time-related impacts. Separately, Section 01 3200 §1.03.D calls for a CPM schedule "in the form of a CPM (arrow) diagram." Please confirm that a precedence-diagram (PDM) CPM schedule in Primavera P6 meets this requirement.	Bid per plans and specifications.	
Contract, Insurance, Payment and Administration			
107	Please clarify the following: (a) whether Builder's Risk must include earthquake and flood coverage; (b) whether subcontractors must carry all coverages required of the Contractor under §1.09, or only CGL, auto and workers' compensation, plus pollution and professional coverage where their scope warrants; (c) the completed-operations period, which is one year after Final Completion in §1.01.A and a five-year maintenance period in §1.11; (d) whether §1.02 requires the District to be covered for limits above the stated minimums; (e) whether an increase in required limits directed under §1.03 will be handled as a Change.	Insurance must conform to the requirements in Document 00 73 16. Bid per plans and specifications.	
108	Section 2.02 excludes the Owner's sole negligence, willful misconduct or active negligence. Section 2.05 applies the indemnity "even in the event of … negligence (active or passive)" of the indemnified parties. Please reconcile the two provisions consistent with Civil Code §2782.	The provisions are not inconsistent. Bid per plans and specifications.	
109	GC §9.01.C has the Contractor warrant that no storage tanks, lead or asbestos "are or were located on the Project." The Work includes removing an existing fuel tank and demolishing a building surveyed for asbestos and lead. Please confirm that §9.01.C applies only to materials the Contractor brings to or installs at the Site.	Confirmed. The warranties in 9.01(C) are specific to materials brought onto the site by Contractor or materials not accounted for in the plans and specifications that are discovered by the Contractor.	
110	S1.1 states that special inspections are "the contractor's sole responsibility." The General Conditions, 01 45 23 and SS-001 say the Owner engages and pays. Please confirm that the Owner will contract and pay for all CBC Chapter 17 special inspections and tests, including continuous inspection of reinforcing-bar welding, AWS D1.1 weld inspection, ceiling seismic inspection under 09 51 00 §3.7.A, and County right-of-way compaction testing (C1 note 23).	The District will contract for and pay for special inspections.	
111	Section 01 45 24 appears to have been written for a school site. It refers to OAR, OEHS, DTSC, students and a "School District," and it requires Contractor-retained environmental professionals and full analytical testing at one sample per 250 CY of import, as well as of export. Please confirm whether this section applies. If it does, please confirm whether commercially produced aggregate base, drain rock and sand from permitted quarries are exempt, and whether testing of exported material is a Contractor cost.	Environmental/import material testing shall comply with the project geotechnical recommendations, applicable permits, and the Contract Documents. School-specific references that do not apply to this fire station should not be interpreted as imposing school-specific procedures; applicable testing and disposal requirements remain in force.	
112	Please confirm: (a) whether on-street parking or staging on Stetson Street or adjacent streets is permitted; and (b) whether full or partial closures of Stetson Street are permitted for the main relocation.	Bid per plans and specifications. Submit Traffic Control Plan for review and approval after bid period.	
113	Section 01 1100 §1.14 states that the Owner will provide construction staking. Sections 01 71 23, 01 73 00, 31 00 00 and C1 note 18 require a Contractor-retained surveyor to lay out all Work, and 01 73 00 §3.4.E requires a recorded final property survey. Please confirm which party provides construction staking, and whether a recorded final property survey is required.	Contractor will provide construction staking. No final Property Survey will be required.	
114	Please confirm whether record drawings must be Revit-native files (01 78 39 §2.1.B), or whether annotated PDF record sets are acceptable.	Annotated PDF sets are acceptable. REvit native files are not required to be included with final record drawing deliverable.	

Coastside Fire Protection District - Fire Station 44 Replacement Project - Addendum 6			
RFI	**Question**	**Response**	**Attachment / Exhibit**
115	Section 01 91 13 lists AHUs, pumps, terminal units, a BAS and "data center systems." Please list the systems that will be commissioned on this Project. Please also confirm whether TAB is performed by the Owner's forces (01 77 00, 01 77 22) or by a Contractor-retained AABC firm (23 05 93).	Commissioning shall be performed in accordance with Section 01 91 13 and the applicable Contract Documents. Commissioning shall apply to the building systems identified in the commissioning specifications and provided under this Project, including HVAC equipment and controls, air-handling units, pumps, terminal units, the building automation system (BAS), and associated system interfaces, as applicable. Testing, adjusting, and balancing (TAB) shall be performed by the Contractor-retained firm in accordance with Section 23 05 93. Coordinate TAB activities with the commissioning process and provide all required reports and documentation.	
116	Please address the following closeout items: (a) Issue Closeout Forms B, C and D referenced in 01 77 00 §1.7. Confirm that Form C may be limited to certifying that no asbestos- or PCB-containing products were installed, and that Form A will be revised to name the District. (b) Describe the "letters from property owners" required for final payment. (c) Identify any Contractor maintenance obligations after Final Acceptance. (d) Section 32 98 00 requires a 90-day landscape maintenance period, and the Contract allows 45 Calendar Days from Substantial Completion to Final Completion. Please confirm that the 90-day maintenance period and the 45-day closeout period will both begin on the established date of Substantial Completion. (e) Please state whether the District intends to withhold Project retention through the 90-day maintenance period, or whether retention will be released 30 days after Final Completion.	Follow closeout provisions noted in section 01 77 00.	
117	Please provide a copy of the Waste Management Plan the District submitted through Green Halo, and confirm the required diversion percentage. Please also confirm that Green Halo tracking satisfies the reporting forms and "waste management coordinator" requirement in Section 01 74 19.	See **attached** WMP. Contractor shall confirm and revise the WMP, and be responsible for all requirements and reporting via Green Halo. Green Halo tracking satisfies the forms requirement however the requirements for the Contractor to have a waste management coordinator still apply.	
Hazardous Materials and Existing Conditions			
118	The survey reports lead paint at 2,700 ppm on the apparatus bay wood ceiling beams. Please confirm whether the District will provide waste characterization for these members, or whether they may be disposed of as non-hazardous construction debris.	District will not provide waste characterization or any information beyond report provided in Bid. Contractor to determine waste characterization and disposal method and submit to District for review and approval.	
119	Amended C2 Note 9 makes the Contractor responsible for verifying whether an oil pit, oil/water separator or other underground oil-containing facility exists. Please confirm that if such a facility, or petroleum-impacted soil, is found, its removal, sampling and disposal will be paid as a hazardous materials or differing site condition under GC §13.03–13.04.	The District is not aware of an oil pit or oil/water separator.	
120	Addendum No. 1 requires the Contractor to salvage the existing generator, aboveground fuel tank and air compressor and deliver them to 1191 Main Street, Half Moon Bay. Please confirm: (a) whether the tank is to be delivered drained and rinsed, and whether County guidance items 3–5 (hazardous waste determination, tank closure certification or manifest) are Contractor obligations; (b) which party is the hazardous waste generator of record for fuel and rinsate removed from the tank and generator; (c) when the items must be delivered, and the delivery location and hours at 1191 Main Street; (d) any CHP transportation requirements the Contractor must meet to move the tank (guidance item 6); (e) that the District accepts the salvaged equipment in its existing condition, with no Contractor responsibility for its operability.	a. Yes, delivered drained and rinsed. All guidance items and any other requirements for handling those items are Contractor responsibility. b. Follow applicable law. c. This will be detemined after bid, discussed at the Preconstruction Meeting if not sooner. d. Contractor to determine and comply. e. Yes, with the exception that any damage caused by Contractor shall be responsiblity of Contractor.	
121	The BESS report contains photographs only, with no plan or depths. Please provide the locating data in plan form with approximate depths. Several "GPR UNK" markings fall along the southeast and south property lines on the soldier-pile alignment (BESS photos 17–19); please say whether they have been identified. Please also confirm that unidentified utilities, buried obstructions and undocumented fill beyond those shown will be treated under GC §13.02–13.03.	Bid per plans and specifications.	
rthwork and Stormwater			
122	Section 31 00 00 cites the September 2023 report, and S1.1 cites report No. E9371-04-01. The bound report is E9371-04-02, revised January 17, 2025. Please confirm: (a) which report governs; (b) whether Geocon has issued a letter confirming the report remains valid, since it limits reliance to three years from 9/12/2023; (c) whether Geocon has reviewed the final plans per §7.1; (d) that the seismic parameters were developed for the Moss Beach site (§4 lists N37.3236°/W121.8641°).	a) E9371-04-02 report dated January 17, 2025 governs. b) not applicable, E9371-04-01 report dated September 2023 was only ever issued in draft and has been superseded by E9371-04-02 report dated January 17, 2025. c) plan review letter issued 3.20.2026 d) Coordinates listed in report are in error, seismic parameters were developed for 37.5322, -122.5160	

Coastside Fire Protection District - Fire Station 44 Replacement Project - Addendum 6			
RFI	**Question**	**Response**	**Attachment / Exhibit**
123	Please state which requirement governs where the specification and the geotechnical report differ: (a) pad overexcavation depth, 12" (Geocon §6.5.5) or a 2 ft minimum (Spec §3.8.F); (b) pad fill compaction, 90% above optimum or 95% at optimum; (c) depth of 95% pavement subgrade, 12" or 6"; (d) maximum lift thickness, 8–12" or 6"; (e) moisture condition for clayey soils.	a) The more stringent requirement governs. However, spec section 31 00 000 3.8F indicates 2' overexcavation is required where building is atop cut/fill transition or entirely in cut which is not the case here. b) The more stringent requirement governs, so 95% relative compaction. Near optimum moisture for predominantly granular soils, above optimum for predominantly clayey soils c) 12" per Section 6.10.1 of geotech report. d) The more stringent requirement governs, so 6" lifts per spec section 31 00 00 3.8B/3.9A. e) above optimum moisture content	
124	Geocon allows overexcavation deeper than 12" where undocumented fill or loose or unstable soils are found, and the specifications place all drying costs on the Contractor. Please state the overexcavation depth bidders should assume. Will the District provide a unit price or allowance for additional overexcavation and replacement, or for lime or cement treatment of wet or unstable subgrade directed by the Geotechnical Engineer? Lime or cement treatment is referenced in 31 23 33 §3.5.E and 33 00 00 §3.3.A.3 but is not specified.	Boring B1, located approximately 25' outside of the planned building footprint, encountered undocumented fill to approximately 2 ½ feet whereas our Borings B2-B4, located closer to or within the planned building footprint, did not encounter fills beneath pavement section. However, no borings were conducted within the footprint of the existing building. Based on the information available at this time, we anticipate that if deeper over-excavations are required they will be in limited areas rather than across the entire building pad. Drying of site soils is a contractor means and methods item and lime or cement treatment is not required from a geotechnical perspective, so the contractor may opt to perform lime or cement treatment for the purposes of drying soils at their own expense.	
125	The grading exception approval attached to Addendum No. 1 lists 1,824 CY of cut and 134 CY of fill. Please confirm: (a) whether the grading permit quantities include soldier-pile drilling spoils, retaining wall excavation, off-site utility trench spoils and building pad overexcavation; (b) whether the District will provide a unit price per cubic yard for export and import beyond the permit quantities, where the additional quantity results from overexcavation directed by the Geotechnical Engineer, undocumented fill, or on-site soil the District determines is not reusable under 31 00 00 §2.1.A; (c) if no unit price is provided, that such additional quantities will be paid as a Change.	(a) The grading permit quantities of 1,824 CY of cut and 134 CY of Fill do not include soldier-pile drilling spoils, retaining wall excavation, off-site utility trench spoils, or building pad overexcavation. Based on updated cut/fill calculations, the project has a revised net balance of ±2,000 CY of Cut. (b) and (c) Confirm with Sean Rose/District how additional export or import quantities beyond the permitted amounts will be handled, including applicable unit pricing and payment as a Change if no unit price is provide	
126	Section 01 57 13 states that a SWPPP is not required and that the District will employ the QSP. C1 and C8 reference a QSD-prepared SWPPP, an NOI and a WDID. Please confirm: (a) whether the Project requires coverage under the State Construction General Permit, and if so the Risk Level, the Legally Responsible Person, who files the NOI and pays the fees, and who provides the QSD and QSP; (b) whether a County Erosion and Sediment Control Plan is the only stormwater document required; (c) whether C8 note 15 prohibits all on-site fueling of construction equipment, including drill rigs and cranes; (d) the end date of the post-construction BMP maintenance required by 01 57 23 §3.2.B.	(a) A SWPPP is not required for this project. (b) The Erosion Control Plan (C8) and approved Civil Plans are the applicable erosion control documents for this project. (c) No on-site fueling shall take place, per Erosion Control Plans, unless vetted and accepted by local agency. (d) Confirm the applicable maintenance duration and requirements with Sean Rose/District	
127	C4 shows infiltration trenches and bioretention within the building foundation zone of influence. Geocon §6.12.2 recommends collecting all site drainage and conveying it to the street, and no infiltration testing was performed. Has Geocon reviewed and accepted the infiltration and bioretention design? Please also identify the specification for bioretention media.	Plans and details/sections show the actual section of the building foundation and footing zone of influences in reference to the actual location of the bioretention areas and infiltration trenches. Plans have been reviewed and approved by Geocon. Geocon approved Bioretention and infiltration trench location and design. A Hydrology Report was submitted and approved by County of San Mateo. Infiltration trenches have been incorporated with the Bioretention areas for a dual-use stormwater management feature to manage and reduce peak flows and runoff volume. Excessive ponding will be discharged through a series of (5) 3" Storm Drain Drainage Under Sidewalk recommended and approved by County of San Mateo.	
128	Boring B4 recorded pH 5.2, and Geocon recommends a corrosion engineer. Has a corrosion evaluation been performed? Are any protections required for buried ferrous pipe, fittings,hydrants or soldier piles beyond those shown?	Bid per plans and specifications.	
129	Please confirm the 28-day strength of heavy-traffic site concrete: 3,500 psi per Geocon §6.10.3, or 3,000 psi Class B per 32 16 00 §2.3.A. Please also confirm whether thickened edges (§6.10.4) and dowelled joints are required, and which joint spacing governs, 10 ft on C1.1 or 20 ft in 32 16 00.	Geocon's recommendation for 3,500 psi concrete at 28 days is confirmed along with providing thickened edges and dowelled joints. Refer to Civil Detail on C1.1 for joint spacing at 10 feet	
Retaining Walls and Offsite Utilities			

Coastside Fire Protection District - Fire Station 44 Replacement Project - Addendum 6			
RFI	**Question**	**Response**	**Attachment / Exhibit**
130	SS-001 references a "geotechnical instrumentation and monitoring plan report by the project civil engineer," which is not included. Please provide it. C3 also shows "L-type" retaining walls of 12.5 LF, 9.47 LF and 32.29 LF, and 9.5 LF at the northeast corner, that do not appear on SS-201 or SS-301. Please provide their structural design.	C3 "L-type" retaining walls of 12.5 LF, 9.47 LF, and 32.29 LF are shown the Southeast corner of Sheets SS-201 and Detail 14, Sheet SS-003 The 2 walls at the Northeast corner (one labelled 9.5 LF) are enclosure concrete walls per Architectural Plans, Sheet A1.1, 8" CMU Wall, and Detail 11, Sheet A1.3.	
131	C6 shows the new 6" water main and 8" sewer passing through the Sierra Street soldier-pile wall. SS-201 and SS-301 show no penetration, sleeve, pile-spacing adjustment or waterproofing at these crossings. Please provide the crossing detail, and the intended sequence for building the wall at this location while the existing mains in the Chico Street easement remain in service.	6" water main and 8" sewer main will pass through the approximate center between adjacent soldier-piles. Soldier piles 1, 2, and 3 (P1, P2, and P3 per soldier pile schedule and retaining wall plan Sheet SS-201) are at a depth of 32 feet below subgrade. 6" water and 8" sewer mains have a 36" and 42" minimum cover at retaining wall crossing, respectively.	
132	The soldier-pile walls are 1–3 ft inside the property lines next to 495 Stetson, 506 Sierra and 511 Kelmore, and overhead lines run along Sierra Street. Please confirm: (a) whether the District has obtained temporary construction easements or access agreements for work at the property lines, and whether any work on the neighboring side is expected; (b) whether PG&E will de-energize, relocate or remove the overhead lines and pole ("by others" per C2) before pile drilling, and on what schedule.	Confirm with Sean Rose/District regarding the status of temporary construction easements and access agreements for the adjacent properties, as well as coordination with PG&E for any required overhead power line relocations or de-energization prior to soldier-pile installation.	
133	Groundwater was recorded at 25–27 ft in borings B2–B4. Most pile embedments extend below that depth. Please provide any groundwater observations from borings B6 and B7 on the wall alignment. Please also confirm whether the 1,000 psi underwater-concrete increase in Geocon §6.11.10 applies to every pile placed below groundwater.	No free water was encountered at the time of drilling in our Borings B6 and B7. The special concrete mix (with 1,000psi increase in design minimum compressive strength) should be used for concrete to be placed below water as noted in Section 6.11.10, so yes every pile placed below groundwater.	
134	Please confirm the following:(a) who pays MWSD plan check, inspection, connection, capacity and meter fees for the main relocation and the new domestic, fire and irrigation services; (b) whether MWSD inspects the main work, and whether a separate MWSD agreement or encroachment is required of the Contractor; (c) whether the 8" Stetson connection is a wet tap (C1 water note 8) or a shutdown cut-in (C6); (d) the pipe materials: C6 shows HDPE DR17 sewer and C900 DR14 water, while 33 00 00 specifies PVC SDR35 and C900 DR18; (e) what temporary water and sewer service must be provided to 495 Stetson and other customers during the shutdown period of up to four months.	(a) Sean Rose/District has been coordinating with MWSD regarding the payment to MWSD (b) Sean Rose/District has been coordinating with MWSD regarding the inspection of the main line work and the Mainline Extension Agreements (MEA's) required for both the Sewer and Water Mains. (c) Shutdown cut-in per MWSD. Notes on C1 shall be updated to reflect Sheet C6, which has been approved by MWSD. (d) Water and sewer service to 495 Stetson and other adjacent properties do not need the new mains to be installed during their connection, Sheet C2 explains the relocation of the 495 Stetson water and sewer connections. •495 Stetson sewer service will be a new service that will connect downstream at the existing manhole, per Sheet C5, to not interrupt their sewer service as the new main is being installed •495 Stetson water service will be a new service that will connect to the existing main in Stetson Street, per Sheet C5, and will not need the new main to be installed prior to service being installed Additionally, Utility Construction Notes and Requirements 1-4 on both Sheet C2 and C5 explain shutdown requirements and approvals needed before any shutdown. A temporary sewer main shall be isntalled prior to demolition or removal of the existing sewer facilities. A Method of Procedure (MOP) shall be submitted to and approved by MWSD before any shut down of the water main and services. Contractor shall coodinate the shut down with MWSD and shall not interrupt water service without prior written approval from the District.	
135	Please confirm that the District will record the modification and abandonment of the Chico Street easement and the new 17-ft easement, and obtain MWSD's "OK to Construct" letter, before NTP. Please also confirm that delays in these items will be treated as excusable.	Sean Rose/District has been coordinating with MWSD regarding the modification and abandonment of the existing Chico Street easement, the new 17-foot easement, and the required MWSD "OK to Construct" letter. Confirm the status of these items with Sean Rose/District, including the anticipated completion prior to issuance of the NTP.	
136	C5 shows a 1.5" domestic meter. The P0.1 calculation assumes a 2" meter and 2" backflow with 8 psi of residual margin, and P1.1 shows 2-1/2" CW. Please confirm the meter size approved by MWSD. Please also provide hydrant flow test data (static, residual and flow) and identify the required fire service backflow assembly type.	The improvement plans Sheet C5 and C6 depict the current approved plans by MWSD including, but not limited to, the 1.5" Domestice Metered Service, 2" Backflow Prevention Device, and 2.5" CW.	

Coastside Fire Protection District - Fire Station 44 Replacement Project - Addendum 6			
RFI	**Question**	**Response**	**Attachment / Exhibit**
137	Please confirm that the irrigation controller is the new Hunter HCC-800-SS shown on L2.0, not an existing controller as stated in 32 84 00 §2.6. Please also confirm whether C1's Calsense requirement applies to any planting in the County right-of-way, and who pays MWSD fees for the separate 3/4" irrigation meter.	Confirmed that controller to be used is the new Hunter HCC-800-SS as shown in sheet L2.0. The C1 Calsense requirement does not apply to this right-of-way planting because the project is within San Mateo County jurisdiction, not Caltrans jurisdiction along Highway 1. Additionally, the Fire District/Agency does not require the irrigation controller to connect to a centralized municipal Calsense network. The Fire District/Agency, as the project owner, is ultimately responsible for paying all applicable Montara Water and Sanitary District (MWSD) permit, capacity, and connection fees.	
Architectural and Specialties			
138	In addition to the door type and specification, please confirm the operator type, voltage and phase, controls and safety devices, and any alerting system interface for the apparatus bay doors. Power circuits for the operators are not shown on E2.2 or the panel schedules; please confirm the circuits to be provided.	See addendum 2 for apparatus bay door specs.	
139	Please address the following: (a) A4.1 and A5.1 show asphalt shingles at 1-1/4":12. CBC §1507.2.2 and manufacturer warranties require a minimum of 2:12. Please confirm the intended roofing system and slope at these areas. (b) Confirm the single-ply membrane type: PVC on A4.1 or TPO in 07 54 23. (c) Confirm the required fire classification, Class A or Class B. (d) Confirm the minimum low-slope roof pitch: 1/2" per foot in note 5 or 1/4" per foot on the plan. (e) Provide a specification for the standing seam metal roofing. (f) G0.00 note 32 lists "roof truss design" as a deferred submittal, but S2.3 and S5.x show conventional rafters, LVLs and glulams. Please confirm that no pre-manufactured trusses are included.	a. Provide standing seem metal roof as shown on updated sheet A4.1 and spec section 07 41 13 b. Provide TPO as noted in sction 07 54 23 c. Provide min. Class B Roof d. Provide 1/4" per foot slope as noted on plan where indicated. e. See attached. f. See addendum 2.	A4.1, Spec 07 41 13
140	Section 08 41 13 requires impact-resistant laminated glazing tested to ASTM E1886/E1996 (Wind Zone 4) and design to 115 mph, Exposure D. Section 08 80 00 and A8.1 show non-impact insulating glass at 110 mph, Exposure C. Please confirm whether impact-resistant glazing is required, and the design wind speed and exposure.	Non-impact insulated glass as shown in spec 08 80 00 is to be provided. Wind load design criteria is 105 mph as noted on S1.1.	
141	Please confirm who engages and pays for the AAMA 502 field testing in §1.5.E. Section 2.1.C requires equal-product submissions 10 days before bid (October 10). Please confirm whether ITB §6.08 governs instead (see Question 5).	Field testing required by Section 08 41 13/08 51 13 shall be performed by a qualified independent testing agency as specified, with costs assigned under the Contract Documents.	
142	Section 14 21 23 lists 10 stops, 80 ft of travel, 3,000 lb capacity and 480 V power, and it describes an Otis system and hydraulic components. The drawings note a Kone MonoSpace 500 DX with an interior of about 7'×4'-5". Please confirm the number of stops, travel, capacity, cab inside dimensions, speed, power characteristics, and maintenance period: 2 years per §1.4.J or 12 months per §3.6.A.	Basis of Design is Kone Monospace 500 DX as noted in spec 14 21 23. Number of stops: 2 Capacity: 2,500 LB. Inside Dimensions: 6'-11 3/4" x 4'-4 7/16" Speed: 150 FPM Power: 208 V 3-phase Maintenance Period: 12 months See updated spec section 14 21 23	14 21 23
143	The A6.2 legend defines "N.I.C." as "Not in Contract (OFCI)." Several items tagged N.I.C. are Contractor-furnished in 11 90 00 or 10 56 13, including the BBQ, tool chests, metal shelving and TV mounts. Please provide a list of Owner-furnished and Owner-vendor items, stating for each who furnishes it, who installs it, and the expected delivery date. This includes: (a) fitness equipment, sauna, furniture, bunk beds, computers, TVs and the digital markerboard; (b) GearGrid mobile drying racks, mobile hose storage and the SCBA cart; (c) the PPE drying cabinet, ice maker and upright freezer shown as "see specs," which are not in 11 90 00; (d) any radios, station IT, AV or signage.	Follow sheet A6.1 & A6.2 regarding items that are to be NIC. These include the fitness equipmnt, sauna, furniture, bunk beds, computers, TV, digital markerboard, etc. See updated spec section 11 90 00. If any discrepancies persist, Plan sheets A6.1 & A6.2 govern.	11 90 00
144	Section 11 90 00, item X, states that the extractor washer "is an existing equipment supplied by the owner," and requires the Contractor to "uninstall unit with all accessory components at current station, store during construction activities and re-install." We did not observe an extractor washer during the pre-bid site visit. Please confirm: (a) whether the extractor exists, and which station "current station" refers to (Station 44 or another District facility); (b) its make, model, size and utility requirements; (c) its current condition, and whether the District will participate in a joint condition survey before removal; (d) whether the District will store the unit during construction, or whether the Contractor must provide storage, and for how long; (e) that the Contractor is not responsible for the unit's operability or for repair or replacement parts after reinstallation, except for damage caused by the Contractor.	Extractor is to be new. See updated section 11 90 00.	11 90 00

Coastside Fire Protection District - Fire Station 44 Replacement Project - Addendum 6			
RFI	**Question**	**Response**	**Attachment / Exhibit**
145	Please confirm: (a) whether Plymovent VSRX is a sole-source item, or whether an equal will be accepted under ITB §6.08; (b) the number of rails and drops, and the number and type of apparatus requiring tailpipe modification under §2.5.P; (c) the fan location and power, since no blower appears on the mechanical sheets; (d) whether compressed air is required at the nozzle regulators; (e) whether exterior ductwork must be stainless steel under §2.4.E; (f) whether the fan, duct and controls are furnished under 11 14 60 or Division 23.	There are air connections shown on updated plumbing plans see sheet P2.1 keynote 10. For both rails. Unless not required per plymovent system/PBK.See attached Plymovent data sheets for Basis of Design.	Data Sheets
146	The gate schedule lists G01 as a 17'×10' swing security gate. The plan and A1.3 show a sliding gate with an operator, card reader, edge sensor and radio transmitters. Please confirm the gate type, and provide the operator specification: UL 325 class, safety devices, access devices, Knox requirements and transmitter quantity.	Provide G01 as the sliding gate shown on the site plan and A1.3, with operator, card reader, edge/photoelectric safety devices, manual/emergency release, and emergency responder access provisions. Operator and gate shall comply with UL 325, ASTM F2200 as applicable, and manufacturer requirements.	
147	A8.1 calls for vertical and horizontal louver blinds. Section 12 24 13 and the finish legend specify motorized MechoShade WhisperShade IQ with network controls. Please confirm the window treatment type by room, which shades are motorized, and whether a BAS or AV interface is required.	Provide roller shades as indicated on A8.1 and throughout plans. See A6.1, A6.2 and A8.1 for locaations of motorized and manual roller shades.	
Structural			
148	S1.5 requires the Contractor to design and stamp all MEP, fire sprinkler and architectural supports and bracing at Ip = 1.5, citing the 2016 CBC and ASCE 7-10. S1.1 uses the 2022 CBC and ASCE 7-16. Please confirm the governing code edition. Please also confirm whether these designs must be submitted to the County as deferred submittals; they are not listed in G0.00 note 32 or the S1.1 deferred submittal list.	Contractor-designed supports and bracing shall comply with the 2022 CBC and ASCE 7-16, as referenced by the structural design basis, and shall be designed/stamped by qualified California-licensed professionals where required. Reference the G0.00 / S1.1 for required deferred submittals.	
149	Please clarify the following: (a) Moist-cure duration: 3 days per S2.1, 7 days per S1.1, or 10 days per 03 30 00 §3.10. Please also confirm whether moist curing or the specified curing and hardening compound governs. (b) Whether a sand layer is required over the vapor barrier (03 30 00 §3.3A), or the slab is placed directly on the barrier over 4" of crushed rock (S2.1). Geocon specifies 3". (c) Whether a vapor barrier is required under the apparatus bay slab, and on the exterior faces of perimeter grade beams (03 30 00 §3.3B). (d) Maximum aggregate size for slab-on-grade concrete: 1" per S1.1 or 3/4" per the specification. (e) Whether the FF/FL requirements of §3.9 apply to the sloped apparatus bay slab. (f) Whether the District intends to keep the 15-year warranty in §1.9, supported by a $1,000,000 product liability policy issued to the Owner, and the life-of-building vapor barrier warranty.	Where curing requirements conflict, comply with the most stringent specified requirement, including the 10-day curing duration specified in Section 03 30 00, unless an alternative is reviewed and approved in writing by the Structural Engineer and is compatible with the specified curing and hardening compound. Refer to the Foundation Plan Notes on Sheet S2.1 and the Typical Notes on Sheet S1.1, which shall govern in the event of discrepancies with the specifications.	
150	S1.1 requires stair landings to be self-supporting, independent of the building frame. Please confirm whether the landing posts and their footings are designed by the stair supplier, and whether any foundations for them are shown on the structural drawings.	Stair landings shall be self-supporting in accordance with the requirements of Sheet S1.1. The stair supplier's delegated design shall include all required posts, supports, connections, and anchorage. The delegated design shall also determine whether foundations beyond the slab shown on the Structural Drawings are required to support the stair	
151	Section 05 12 00 §1.4.B applies the AISC specification for Architecturally Exposed Structural Steel without limitation. Please identify which members, if any, are AESS, and the AESS category. Please also confirm the grade for 4x and 6x posts and beams: DF-L No. 1 per S1.1, or Dense No. 1 per 06 10 00.	Provide AESS only where specifically identified; do not assume all structural steel is architecturally exposed solely because Section 05 12 00 references AISC AESS. Provide DF-L No. 1 pre S1.1.	
Fire Protection, Mechanical and Plumbing			
152	No Division 21 specification and no fire protection drawings are included. Please confirm that the fire sprinkler and underground fire systems are Contractor-designed deferred submittals in the base bid, and provide: (a) the NFPA 13 edition (G0.10 cites 2013; G0.00 lists 2022); (b) hazard classification by area, and whether NFPA 13R is permitted at the dormitory floor; (c) whether one riser or a dedicated riser per floor is required; (d) hydrant flow test data; (e) the "Fire Protection Plan" referenced in C5 note 6; (f) the FDC location and type; (g) whether CFPD plan review and inspection fees are a Contractor cost.	Fire sprinkler and underground fire systems are contractor-designed deferred submittals. See forthcoming Addendum for Division 21 specs.	
153	M0.2 schedules LG ARUM…BTE5 VRF and LSU/LSN split equipment with R-410A. M5.3 shows ARUM…DTE5 units at 460 V. The specifications require R-454B or R-32. Please confirm: (a) the refrigerant and model series in light of current EPA and CARB restrictions on new R-410A systems; (b) the HRU voltage, 208 V/3-phase or 460 V/3-phase; (c) whether A2L refrigerant leak detection or mitigation is required in occupied rooms, and who designs it.	LG VRF equipment shall be 208/3ph per the schedules on sheet M0.2 and shall be the latest R-32 ZRNU fan coils and ZRUM condensing units. Refrigerant leak mitigation or detection is not required in the occupied rooms.	

Coastside Fire Protection District - Fire Station 44 Replacement Project - Addendum 6			
RFI	**Question**	**Response**	**Attachment / Exhibit**
154	The plumbing drawings provide gas to the gear (turnout) dryer at 175 CFH and the laundry dryer at 35 CFH, for a total load of 995 CFH. Section 11 90 00 specifies electric dryers and a 208 V/3-phase Unimac turnout dryer. Please confirm the fuel source for each appliance, and correct the gas load and electrical panel schedules as needed. Please also confirm whether any County all-electric requirement for new construction applies.	Gear dryer and 2nd floor dryer will be electric and drawings have been updated to show correct piping and loads. see sheets P1.1, P2.1, P2.2, P4.1 detail 4 and P4.2 detail1.	2.1, P2.2, P4.
155	Please provide the control sequence for EF-11, for example continuous, timer, door interlock or gas sensing. Please confirm whether CO/NO2 detection is required in the apparatus bay, and identify the make-up air louver damper and its controls. Please also confirm the ventilation required for Compressor Room 121 (7.5 HP compressor) and the heat or freeze protection for Fire Riser Room 124.	See electrical details for control sequence for EF-11. Detection is not required in App Bay. Makeup louver is passive. Compressor Room shall have door louver. Freeze protection is not required in the fire riser room. By-pass timer has ben added to Sheet E2.4. Detail Sheet E3.3 has bee added to the Electrical set, refer to Detail #5 for EF-11 controls.	
156	Please confirm that the AHJ will accept a residential-type 1,200 cfm hood over the 60" dual-fuel range without a Type I hood or fire suppression system, and say whether make-up air is required.	Plans have been passed by AHJ and there was no comment to provide a type 1 hood.	
157	No Division 25 or 23 09 00 section is included. M0.1 note 31 references an energy management system and a controls contractor "retained by the Owner." Please confirm whether a BAS or EMS is in the Contract, or whether LG standalone and central VRF controls meet the requirement. Please also confirm the EMS interface required for the PV system.	LG standalone / VRF central controls meet the requirement.	
158	Addendum No. 1 requires the existing aboveground fuel tank to be salvaged and delivered to the District. P1.1 states "install owner furnished tank" and describes draining, relocating and re-testing an existing tank. Section 26 32 13 specifies a 48-hour subbase tank, and P1.1 runs DOS/DOR lines from a 1,000-gallon AST to the generator. Please confirm: (a) whether the new 1,000-gallon Enviro Vault AST is furnished by the District or the Contractor; (b) whether the Petrovend K800/PetroNet fuel management system and dispenser are in the base bid; (c) how the AST connects to the generator subbase tank; (d) the specification governing the tank (P1.1 cites Section 25 32 13, which is not included).	Existing tank to be salvaged and delivered but will not be used. New fuel tank and accessories will be as per updated sheet P1.1. (a) Tank will be new and provided by contractor. (b) see updated plumbing plans for new fuel managment system. (c) fuel line will connect per manufacture recommendations. Tank to generator. Subbase tank has been removed from Section 26 32 13. Detail Sheet E3.2 has bee added to the Electrical set, refer to Detail #12 for fuel management system wiring.	P1.1
Electrical, Communications and Alerting			
159	Please answer the following about PG&E service: (a) Has the District submitted PG&E applications for new electric and gas service at 501 Stetson Street? If so, please provide the application numbers, status, any PG&E design, and the expected energization date. (b) How will PG&E engineering, service and line-extension fees that the Contractor pays under E1.1 Note 1 be reimbursed? (See Question 6.) (c) Is the primary conduit crossing Stetson Street, including the pole riser, Contractor scope? (d) E0.2 references SDG&E metering and a 42,000 A available fault current from SDG&E, and E0.1/E0.2 reference SCE. Please provide the PG&E available fault current. (e) How many service conduits are required? E0.2 shows two 5", and E1.1 shows three 5". (f) Has PG&E accepted an indoor meter location in Electrical Room 109?	a) - Yes, District has submitted applications. b) - District will reimburse contractor at cost (no markup) upon valid receipt of cost paid by Contractor. c) By contractor. d) PG&E d) AIC rating indicated on E0.2 is based on projected availble fault current and for bid purposes. Actual available fault current to be provided by PG&E as part of the PG&E final design. d) Provide (3) 5"c. e) Bid per plan. Required adjustments will be made upon receipt of the PG&E final design.	
160	E0.2 shows a 200 kW generator with a 600 AT breaker, a 600 A ATS, 42 kAIC service equipment, and a NEMA 3R switchboard. Sections 26 32 13, 26 36 00 and 26 24 13 specify a 250 kW generator (MTU DS250) with a 1000 AF/800 AT breaker, an ASCO 1000 A catalog number, a 65 kAIC main, and a NEMA 1 switchboard. Please confirm the generator kW rating, ATS ampacity and poles, generator breaker, interrupting rating, and switchboard enclosure type.	Provide 150kW Tier 4 generator in Level 2 Nema 3R enclosure with 600A trip circuit breaker and 600AT load bank circuit breaker. Main switchboard is Nema 1. Provide 600A ATS. System AIC rating to be confirmed upon receipt of PG&E final design. 42kAIC to be used for bid purposes.	Spec 26 36 00
161	Addendum No. 1 addresses the County generator permit, but not the air permit. Section 26 32 13 §1.9 requires the Contractor to obtain San Diego APCD permits and a health risk screening. Please confirm: (a) the agency is BAAQMD, and whether the District or the Contractor applies for and pays for the Authority to Construct and Permit to Operate and any health risk assessment; (b) whether the District has already applied; (c) whether the Rypos active DPF ("No exceptions," §2.6.F) remains required, and where its 20 A circuit is shown; (d) which party engages the testing agency, since §3.3.A says the Owner and §3.3.B says the Contractor.	Generator permitting shall be coordinated with San Mateo County and the applicable air quality district, anticipated to be the Bay Area Air Quality Management District (BAAQMD), subject to confirmation. The Owner has not previously applied for these permits. The Contractor shall prepare and submit the required permit applications and coordinate with the applicable agencies. The Owner shall engage the required testing agency and pay the applicable permit fees. The Contractor shall coordinate permit requirements, inspections, and testing with the Owner and the applicable agencies to support timely approval and installation.	

Coastside Fire Protection District - Fire Station 44 Replacement Project - Addendum 6			
RFI	**Question**	**Response**	**Attachment / Exhibit**
162	A4.1 shows PV arrays labeled Options 1, 2 and 3. Please confirm which arrays are in the base bid. The E0.6 compliance form states that battery storage complies with JA12, and 26 31 00 requires a "PV system with battery storage," but no battery appears on the drawings. Please specify the battery energy (kWh) and power (kW), location and enclosure, and the module basis (Phono Solar per 26 31 00 or REC per A4.1). Please also confirm the PV breaker size (110 A on the SLD vs. 150 A in the MSBD schedule), and whether PV is a deferred submittal to the County.	A4.1 indicates the solar access areas. The 8.8kW ssytem may be placed at any of the locations indicated on plan. Refer to E2.6 for preferred PV module location. Title 24 Form NRCC-SAB-E (Page 2 of 5) does not indicate batteries are required. Section 263100 Part 2 (Products) do not specify battery storage equipment. Section 263100 Part 1 has been revised to remove reference to "battery storage". Refer to revised Sheet E0.2 for PV circuit breaker rating. The PV system is a deferred approval item and Per 26 31 00, Part 1, Item 1.01.A the PV system is a "Design Build".	26 31 00, s7
163	Fixture types SG and SH (409 W each, six fixtures on circuits A-39/41) are not included in the NRCC- LTO-E form or the E1.1P photometric. Please confirm their quantities, wattage and control (for example, emergency-only). Please also say whether any SG pole is located on or within the zone of influence of the site retaining walls; if so, please provide the pole base detail for that condition.	SG and SH are for emergency only. Quantity as indicated on plan. Refer to Structural Details for bases located near footings.	
164	E0.1 note 19.G prohibits MC cable. Section 26 00 00 permits MC cable and requires MC luminaire cable for lighting circuits. Please state which governs, and identify any locations where MC cable is acceptable.	MC Cable is not allowed.	Spec 26 00 00
165	Addendum No. 1 confirms that the GC shall contract with TEA, requires District approval of the full alerting design before ordering, and issues a revised E2.5 that adds red and strobe alerting lights, emergency phones and an alerting panel PC. Please confirm: (a) the scope the District has defined to TEA, covering equipment, radio, antenna and mast, programming, cabling and integration, including the devices added on revised E2.5; (b) whether TEA will provide a single price available to all bidders; (c) who furnishes and installs alerting low-voltage cable, since 27 51 30 §1.01.D and §2.04.2 conflict; (d) the antenna conduit size, 2" per the specification or 1-1/2" per E2.5; (e) the number and location of 120 V alerting circuits, including power for the alerting panel PC, and whether they are on generator or UPS power; (f) the range shutdown contactor and its circuit; (g) required interfaces to apparatus bay doors, lighting relays and gas solenoid valves.	Per Addendum 5 the District is contracting with TEA. TEA's scope of work is shown in their proposal attached to Addendum 5.	
166	E2.3 states that fire alarm devices are shown "for reference only," but none appear on the plan. Please confirm: (a) that the fire alarm system is fully design-build; (b) the reviewing AHJ (CFPD or County) and the NFPA 72 edition; (c) whether the Contractor's scope includes the central-station monitoring contract and its duration; (d) the required communicator type.	Fire alarm devices are shown on Plan #2. Fire alarm system is Design-Build and must meet all the requirements of the AHJ. Refer to Section 28 31 00, Part 1, Item 1.1.C for Dorm room and Dayroom requirements.	
167	E2.3 shows about ten exterior cameras and a security control panel. The hardware sets list card readers "provided by Security Supplier," and no specification covers CCTV, intrusion detection or access control. Please confirm whether these systems are Owner-furnished and Owner-installed, with the Contractor providing only conduit, backboxes and power. If they are Contractor-furnished, please provide specifications. Please also confirm that network active equipment, the telephone system, the CATV feed and AV equipment are Owner-furnished, and that the Contractor's scope under 27 13 43 and 27 05 23 is limited to passive cabling, outlets and pathways.	Video surveillance scope of work is limited to data outlets at the camera locations. Refer to Section 27 13 43, Part 2, Item 2.1.B.8, Item 2.1.D.5. Intrusion scope is limited to conduit and back-boxes. Cameras and Intrusion system is Owner furnished and installed. Confirmed: Network active equipment, the telephone system, the CATV feed and AV equipment are Owner-furnished. Contractor is responsible for Section 27 13 43 and 27 05 23.	
168	E1.1, E1.1P and E1.1EP show an unlabeled two-circle element near the response driveway. Please identify it, and confirm whether any emergency vehicle warning signal, beacon or traffic signal preemption on Stetson Street is part of the Contract.	The two-circled item in the response drive is a plumbing element. No traffic sign scope.	
169	The code analysis identifies approximately 1,118 square feet of the second floor as Group R-2 and identifies the sleeping use as dormitory. We recommend confirming the basis for the R-2 classification and whether R-3 or another applicable classification is more appropriate for emergency-services sleeping quarters. This determination should then be coordinated with the associated separation, alarm/detection, egress, and other life-safety provisions.	Occupancy group R-2 as shown and approved by the County is appropriate in this case.	
170	We recommend clarifying the overall basis of design and interfaces between the building fire alarm system and the separate fire station alerting system. This should include the intended initiating and notification functions, sleeping-area notification/detection, FACP/annunciator location, sprinkler monitoring, and any desired interfaces with station operations.	There is no interface between the fire alarm system and alerting system. Refer to Section 28 31 00 for fire alarm system requirements.	
171	The documents identify relocation/removal of the existing hydrant and FDC, a new 6-inch fire-water service/backflow arrangement, and Fire Riser Room 124. We recommend confirming the final hydrant and FDC locations and clearly coordinating the complete fire-service route, building entry, riser and deferred sprinkler/underground fire-protection interfaces.	The existing hydrant and FDC are to be removed per Demolition Plan. New location of FW/CW/IRR with associated Backflow Prevention Devices are shown on Utility Plan, Sheet C5, on Stetson Street. Confirm with Sean Rose/District if on-site Fire hydrant and FDC are needed/wanted	

Coastside Fire Protection District - Fire Station 44 Replacement Project - Addendum 6			
RFI	**Question**	**Response**	**Attachment / Exhibit**
172	The design incorporates a Plymovent source-capture system as well as general apparatus-bay ventilation. We recommend reviewing these systems together with HVAC zoning and pressure relationships to confirm that vehicle exhaust and other contaminants are effectively controlled and do not migrate into office, training, fitness, living or sleeping areas. We would also look at how the apparatus bay, Decon 118, EMS Storage 119, Turnout 120, Shop 122 and Hose Dry Storage 123 function together as part of the station's clean/dirty workflow.	The App bay will remain under negative pressurization due to the exhaust fan and will prevent migration from the App Bay into the adjacent spaces.	
173	The design identifies a 200-kW emergency generator. Beyond confirming electrical connected load, we recommend reviewing the systems Coastside expects to remain operational during an extended outage—including station alerting/communications, apparatus exhaust, HVAC, gates, bay doors, elevator and other mission-critical functions—and confirming generator capacity, load priorities and required fuel duration accordingly.	The entire building is 100% backed-up by the generator. Fuel is provided by the aboveground storage tank.	
174	The mechanical drawings don't show any fire, smoke, fire/smoke or ceiling radiation dampers, and there's no damper spec. As drawn, our bid and others would not include dampers, actuators, or duct smoke detector wiring and testing.	SFD's are required at penetrations of rated walls per General Note #43 on sheet M0.1. Forthcoming addendum 6 will show SFDs.	
175	As specified, our bid and others would include the LG standard coil coating, no coastal coating on SCU-1/2, G90 galvanized goosenecks and exposed duct, and standard rooftop hangers and supports.	Provide coastal coating on exterior condensing units per Addendum 6.	
176	Specified vendor All Weather for aluminum windows can only provide a clear or dark bronze finish on their windows not the painted finish mentioned in the specs. Please confirm an anodized finish is acceptable	Provide aluminum window with kynar finish as noted in specs. Painted finish is not required.	
177	Addendum # 2 response # 8 is confusing about which openings are windows and which are storefronts. Please confirm All Weather nail fin windows are for openings G, K & Q. The remaining openings are storefronts.	Confirmed	
178	The beams shown on the drawings are not available and there are no mill rolling dates currently shown for the beams required. It will be at least 6 months to get beams to the coaters once an executed contract is in place. Could take up to nine months.	Contractor shall promptly verify steel availability and provide a procurement schedule; do not substitute member sizes, grades, or connection designs without written approval by the structural engineer.	
179	Plans state beams are to be coated but do not indicate if the whole beam or a portion of the beam is to be coated. Typically they are coated 5 feet below the bottom of wall elevation. Please advise.	Apply coatings only to the members and extents identified in the structural/architectural documents and coating specification; do not infer a five-foot coating extent without design approval.	
180	Angle iron and straps are shown on the drawings, but do not show the location of where they are to be installed. Does the entire wall get angle iron and straps or only a portion of the wall.	Install angle iron and straps only at the locations and extents shown in the approved structural design; do not assume they are continuous across the entire wall unless detailed.	
181	Section 07 27 26 Fluid Applied Membrane Air Barrier – Page 4, Para 1.9 MOCKUP – it states to provide an air barrier mockup in accordance with Spec Section 01 43 00, but no Spec Section exists. Please provide or correct the Spec Section number	Provide mockup in accordance with section 01 40 00	
182	On Page A7.1, dimensions are generally given for height of counter tops, but dimension is not shown in detail 25 for height of casework in App Bay.	Casework in App. Bay to b 36" H. See revised sheet A7.1.	A7.1
183	C5.0 – Utilities: Keynote 14 associated with the catch basin appears to be missing. Please review and update the plans accordingly.	The "See Note 14" on the Catch Basin callout shall be removed from the plans	
184	Will the District allow bidders to submit their own CRC and their listed subcontractors' CRCs, or the "no vehicles subject" statement, within 48 hours after bid opening?	Yes.	
185	Sheet P1.1 (Plumbing Site Plan): The Above Ground Fuel Tank note says to "install owner furnished tank" (1,000-gallon Enviro Vault). The construction notes on that sheet also describe cleaning, painting, refitting and pressure testing the tank "after the tank has been relocated," which sounds like the existing tank is being reused.	SEE UPDATED SHEET P1.1. THERE WILL BE A NEW 1000 GAL. ENVIRO VAULTPROVIDED BY CONTRACTOR.	P1.1
186	Addendum No. 1 (revised D1.1, keynote D.06): The existing aboveground fuel tank is to be salvaged and delivered to the District at 1191 Main Street, Half Moon Bay.	Existing fuel tank will be salvaged and delivered. But will not be used. There will be a new 1000 gal. fuel tank provided.	
187	Title Sheet G0.0: "Fuel Tank" is listed as a contractor deferred submittal, which suggests the contractor furnishes the tank.	Contractor will supply the new tank. See updated plumbing plans.	P1.1
188	Will the new 1,000-gallon tank be furnished by the District, or furnished and installed by the contractor?	New tank will be furnished and installed by contractor.	
189	If the District is furnishing it, is it the existing tank? If so, should we disregard the Addendum 1 salvage-and-deliver note for the tank?	Existing tank still to be salvaged and delived but there will be a new tank provived by contractor. see updated plumbing plans.	P1.1
190	If the contractor is furnishing it, is the Enviro Vault 1,000-gallon (or equal) the basis of design, and should the P1.1 "owner furnished" and relocation notes be disregarded?	Yes, the Enviro Vault 1000 gallon is the basis of design. See a updated plumbing plans.	P1.1

SECTION 05 40 00 COLD-FORMED METAL FRAMING

PART 1 GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section includes requirements including but not limited to:
   1. Soffit framing.
   2. Accessories necessary for a complete installation.

B. Related Sections:

C. Related Sections:
   1. Section 05 50 00: Metal Fabrications.
   2. Section 09 21 16: Gypsum Board Assemblies.
   3. Section 09 90 00: Painting and Coating.

1.3 PERFORMANCE REQUIREMENTS

A. Delegated Design: General Contractor shall engage a qualified professional engineer, licensed in the State of California, to design cold formed steel framing.

B. Structural Performance - Delegated design engineer shall provide cold-formed steel framing designs capable of withstanding all code required design loads within limits and under conditions indicated on the construction documents and within this Specification:
   1. Design loads: Designs shall be capable of withstanding the worst case loading as indicated on the structural drawings, and/or as required by the locally adopted Building Code. The design shall cover the worst case loading in all instances.
   2. Coordinate the requirements on the structural and architectural Drawings with the requirements of this Section. If a conflict exists, notations on the structural drawings take precedence.
   3. The following document governs the Work, except where more restrictive items are specified:
      a. AISI Design of Cold-Formed Steel Structural Members Wind Load:
         1) Minimum design loads for exterior and/or load bearing and/or soffit applications:
            a) As required by code officials having jurisdiction.
            b) Deflection: 1/600 for clear simple spans.
            c) Deflection: 1/300 for cantilever conditions and roof parapets.
            d) Gauge: 16 gauge minimum, unless noted otherwise.
         2) Minimum design loads for interior and/or exterior suspended furr-downs with a maximum vertical drop on either side of five feet (5') or greater:
            a) As required by code officials having jurisdiction.
            b) Deflection: 1/600 for clear simple spans.
            c) Deflection: 1/300 for cantilever conditions and roof parapets.
            d) Gauge: 20 gauge minimum, unless noted otherwise.
   4. It is a common practice for studs thinner than 20 gauge to be crimped and/or ribbed to increase the strength of the overall stud cross section for various loading applications. These studs are typically noted by manufacturer as "equivalent" to a thicker gauge.

These “equivalent” type studs are not allowed in a vertically suspended application with greater than five feet (5’) of vertical wall drop, 20 gauge is the minimum thickness allowed for these applications.

5. Welding qualifications: Qualify welding processes and welding operators in accordance with AWS "Standard Qualification Procedure."
6. Studs, tracks, channels, and other light gauge framing members shall conform to requirements of ASTM C955.
7. Fire-rated assemblies: Where framing units are components of assemblies indicated for a fire-resistance rating, including those required for compliance with governing regulations, provide units that have been approved by governing authorities that have jurisdiction.
8. Design framing systems to provide for movement of framing members located outside the insulated building envelope without damage or overstressing, sheathing failure, connection failure, undue strain on fasteners and anchors, or other detrimental effects when subject to a maximum ambient temperature change of 120 degrees F (67 degrees C).
9. Design framing system to maintain clearances at openings, to allow for construction tolerances, and to accommodate live load deflection of primary building structure:
   a. Upward and downward movement of 1-1/2 inches (38 mm).
10. Design exterior non-load bearing wall framing to accommodate horizontal deflection without regard for contribution of sheathing materials.

C. Cold Formed Steel Framing Design Standards:
   1. Wall studs: AISI S211.
   2. Headers: AISI S212.
   3. Lateral design: AISI S213.

1.4 SUBMITTALS

A. Product Data: Technical data for cold formed steel framing product and accessories including factory applied primers.

B. Shop Drawings:
   1. Submit layout, spacings, sizes, thickness, and types of cold formed steel framing; fabrication; and fastening and anchorage details, including mechanical fasteners:
      a. Indicate reinforcing channels, opening framing, supplemental framing, strapping, bracing, bridging, splices, accessories, connection details, and attachment to adjoining work.
      b. Shall bear the seal of a Registered Professional Engineer, licensed in the State of California.

C. Supplementary Design Details: The general design is presumed adequate to permit compliance with the specified performance. Provide engineering calculations and shop drawings to supplement the general design. Calculations shall bear the seal of a Registered Professional Engineer, licensed in the State of California. Calculations and shop drawings must show design will withstand wind loading commiserate with class and rating of the Project.

1.5 QUALITY ASSURANCE

A. Regulatory Requirements:
   1. Welding qualifications:
      a. Qualify procedures and personnel according to the following:
         1) AWS D1.3/D1.3M Structural Welding Code - Sheet Steel.
         2) CCFSS Technical Bulletin: “AISI Specification Provision for Screw Connections.”

2. Comply with AISI North American Specification for the Design of Cold Formed Steel Structural Members and Standard for Cold Formed Steel Framing - General Provisions:
   a. AISI Specifications and Standards: Unless more stringent requirements are indicated, comply with AISI S100 and AISI S200.
3. Fire resistance ratings: ASTM E119; testing by a UL. Identify products with appropriate markings of applicable testing agency. Indicate design designations from UL *Fire Resistance Directory*.
4. Installer qualifications: Company specializing in the installation of cold formed metal framing components with minimum five (5) years' documented experience.
5. Install system to provide for movement of components without damage, failure of joint seals, undue stress on fasteners, or other detrimental effects when subject to seasonal or cyclic day/night temperature ranges.
6. Install system to accommodate construction tolerances, deflection of building structural members, and clearances of intended openings.
7. Mill certificates signed by steel sheet producer indicating steel sheet complies with requirements, including uncoated steel thickness, yield strength, tensile strength, total elongation, chemical requirements, and galvanized-coating thickness.

B. Professional Engineer Qualifications:
   1. A professional engineer who is legally qualified to practice in the State of California and who is experienced in providing engineering services of the kind indicated. Engineering services are defined as those performed for installations of cold formed metal framing that are similar to those indicated in material, design, and extent:
      a. Engineering responsibility: Preparation of shop drawings, design calculations, and structural data.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Protect cold formed steel framing from corrosion, moisture staining, deformation, and other damage during delivery, storage, and handling.

B. Store cold-formed metal framing, protect with a waterproof covering, and ventilate to avoid condensation.

PART 2 PRODUCTS

2.1 MATERIALS

A. Manufacturers are subject to compliance with requirements; provide products by one of the following:
   1. CEMCO.
   2. ClarkDietrich Building Systems.
   3. Consolidated Fabricators Corp.
   4. SCAFCO Corporation.
   5. Substitutions with Architect's approval, pursuant to conditions of Divisions 00 and 01.

2.2 NONLOAD BEARING WALL FRAMING

A. Steel Studs:
   1. C-shaped steel studs, of web depths indicated, punched, with stiffened flanges:
      a. Minimum base metal thickness: 0.0538 inch (1.37 mm), 0.0677 inch (1.72 mm), and 0.0966 inch (2.45 mm).
      b. Flange width: 1-5/8 inches (41 mm).
      c. Section properties: Refer to the Drawings.

B. Steel Track:
   1. U-shaped steel track, of web depths indicated, unpunched, with unstiffened flanges, and as follows:
      a. Minimum base metal thickness: 0.0538 inch (1.37 mm), 0.0677 inch (1.72 mm), and 0.0966 inch (2.45 mm).
      b. Flange width: 1-1/4 inches (32 mm).

C. Vertical Deflection Clips:
   1. Head clips, capable of accommodating upward and downward vertical displacement of primary structure through positive mechanical attachment to stud web:
      a. Manufacturers are subject to compliance with requirements; provide products by one of the following:
         1) ClarkDietrich Building Systems.
         2) SCAFCO Corporation.
         3) Simpson Strong-Tie Co., Inc.
         4) Steeler, Inc.
         5) Substitutions with Architect's approval, pursuant to conditions of Divisions 00 and 01.

D. Single Deflection Track:
   1. Single, deep leg, U-shaped steel track; unpunched, with unstiffened flanges, of web depth to contain studs while allowing free vertical movement, with flanges designed to support horizontal loads and transfer them to the primary structure:
      a. Minimum base metal thickness: 0.0428 inch (1.09 mm), 0.0538 inch (1.37 mm), 0.0677 inch (1.72 mm), and 0.0966 inch (2.45 mm).
      b. Flange width: One inch (25 mm) plus the design gap for one story structures and one inch (25 mm) plus twice the design gap for other applications.

E. Double Deflection Tracks:
   1. Double, deep leg, U-shaped steel tracks, consisting of nested inner and outer tracks; unpunched, with unstiffened flanges:
      a. Outer track - Of web depth to allow free vertical movement of inner track, with flanges designed to support horizontal loads and transfer them to the primary structure:
         1) Minimum base metal thickness: 0.0428 inch (1.09 mm), 0.0538 inch (1.37 mm), 0.0677 inch (1.72 mm), and 0.0966 inch (2.45 mm).
         2) Flange width: One inch (25 mm) plus the design gap for one story structures and one inch (25 mm) plus twice the design gap for other applications.

   2. Inner track - of web depth indicated:
      a. Minimum base metal thickness: 0.0428 inch (1.09 mm), 0.0538 inch (1.37 mm), 0.0677 inch (1.72 mm), and 0.0966 inch (2.45 mm).
      b. Flange width: One inch (25 mm) plus the design gap for one story structures and one inch (25 mm) plus twice the design gap for other applications.

F. Drift Clips: Bypass or head clips, capable of isolating wall stud from upward and downward vertical displacement and lateral drift of primary structure through positive mechanical attachment to stud web and structure.

2.3 FRAMING ACCESSORIES

A. Fabricate steel framing accessories from steel sheet, ASTM A1003/A1003M, Structural Grade, Type H, metallic coated, of same grade and coating weight used for framing members.

B. Provide accessories of appropriate thickness and configuration, unless otherwise indicated:

1. Supplementary framing.
2. Bracing, bridging, and solid blocking.
3. Web stiffeners.
4. Anchor clips.
5. End clips.
6. Foundation clips.
7. Gusset plates.
8. Stud kickers and knee braces.
9. Joist hangers and end closures.
10. Hole reinforcing plates.
11. Backer plates.

C. Anchors, Clips, and Fasteners:
   1. Steel shapes and clips: ASTM A36/A36M, zinc coated by hot dip process according to ASTM A123/A123M.
   2. Expansion anchors: Fabricated from corrosion resistant materials, with allowable load or strength design capacities calculated according to ICC-ES AC193 and ACI 318 greater than or equal to the design load, as determined by testing per ASTM E488 conducted by a qualified testing agency.
   3. Power actuated anchors: Fastener system of type suitable for application indicated, fabricated from corrosion resistant materials, with allowable load capacities calculated, greater than or equal to the design load, as determined by testing per ASTM E1190 conducted by a qualified testing agency.
   4. Mechanical fasteners:
      a. ASTM C1513, corrosion resistant coated, self-drilling, self-tapping, steel drill screws:
         1) Head type: Low profile head beneath sheathing.
   5. Welding electrodes: Comply with AWS standards.

D. Miscellaneous Materials:
   1. Galvanizing repair paint: SSPC-Paint 20 or ASTM A780.
   2. Non-metallic, non-shrink grout: Premixed, non-metallic, non-corrosive, non-staining grout containing selected silica sands, portland cement, shrinkage compensating agents, and plasticizing and water reducing agents, complying with ASTM C1107/C1107M, with fluid consistency and 30-minute working time.
   3. Shims: Load bearing, high density multimonomer plastic, and non-leaching; or of cold formed steel of same grade and coating as framing members supported by shims.
   4. Sealer gaskets: Closed cell neoprene foam, 1/4 inch (6.4 mm) thick, selected from standard widths to match width of bottom track or rim track members.

2.4 FABRICATION

A. Fabricate cold formed steel framing and accessories plumb, square, and true to line, and with connections securely fastened, according to referenced AISI specifications and standards, manufacturer written instructions, and specified requirements:
   1. Fabricate framing assemblies using jigs or templates.
   2. Cut framing members by sawing or shearing; do not torch cut.
   3. Fasten cold formed steel framing members by welding, screw fastening, clinch fastening, pneumatic pin fastening, or riveting as standard with fabricator. Wire tying of framing members is not permitted:
      a. Comply with AWS D1.3/D1.3M requirements and procedures for welding, appearance and quality of welds, and methods used in correcting welding work.
      b. Locate mechanical fasteners and install according to shop drawings, with screw penetrating joined members by no fewer than three (3) exposed screw threads.

B. Reinforce, stiffen, and brace framing assemblies to withstand handling, delivery, and

erection stresses. Lift fabricated assemblies to prevent damage or permanent distortion.

C. Fabrication Tolerances:
   1. Fabricate assemblies level, plumb, and true to line to a maximum allowable tolerance variation of 1/8 inch in ten (10) feet (1:960) and as follows:
      a. Spacing: Space individual framing members no more than plus or minus 1/8 inch (3 mm) from plan location. Cumulative error shall not exceed minimum fastening requirements of sheathing or other finishing materials.
      b. Squareness: Fabricate each cold formed steel framing assembly to a maximum out of square tolerance of 1/8 inch (3 mm).

PART 3 EXECUTION

3.1 EXAMINATION

A. Examine supporting substrates and abutting structural framing for compliance with requirements for installation tolerances and other conditions affecting performance of the work.

3.2 PREPARATION

A. Before sprayed fire resistive materials are applied, attach continuous angles, supplementary framing, or tracks to structural members indicated to receive sprayed fire-resistive materials.

B. After applying sprayed fire resistive materials, remove only as much as necessary to complete installation of cold formed framing without reducing thickness of fire resistive materials below required thickness to obtain fire resistance rating indicated. Protect remaining fire resistive materials from damage.

C. Install load bearing shims or grout between the underside of load bearing wall bottom track and the top of foundation wall or slab at locations with a gap larger than 1/4 inch (6 mm) to ensure a uniform bearing surface on supporting concrete or masonry construction.

D. Install sealer gaskets at the underside of wall bottom track or rim track and at the top of foundation wall or slab at stud or joist locations.

3.3 ERECTION

A. General:
   1. Track anchors: Install anchors maximum four feet (4’) on center; design anchors and spacing to carry live, dead, and wind loads.
   2. Track splices: Provide channel inserts or weld track splices.
   3. Erection: Install members plumb, level, and in a true plane.
   4. Fastenings: Make assembly rigid and secure, with welds free of voids and burnouts.

B. Install metal framing systems in accordance with stud manufacturer's printed instructions.

C. Runner Tracks:
   1. Install continuous tracks sized to match studs.
   2. Align tracks accurately to layout at base and tops of studs.
   3. Secure tracks as recommended by stud manufacturer, except do not exceed 24 inches on center for nail or power-driven fasteners, nor 16 inches on center for other types of attachment.
   4. Provide fasteners at corners and ends of tracks.
   5. Tracks shall be anchored to structural steel prior to installing sprayed on insulation.

6. Provide deflection track (DT), at top of stud walls at floor or roof above, typically. Allow for 1/2-inch movement of primary structure. Do not attach studs directly to deflection track.
7. Vertical deflection clips: Provide manufacturer's standard bypass and head clips, capable of accommodating upward and downward vertical displacement of primary structure.

D. Secure studs to top track and bottom runner track by means of approved self-drilling screws or welding at both inside and outside flanges of 14 gauge or heavier material. Screws and welds shall be of sufficient size to insure strength of connection. All welding shall comply with American Welding Society "Specification for Welding Sheet Steel in Structures."

E. Set studs plumb, except as needed for diagonal bracing or required for non-plumb walls or warped surfaces and similar requirements.

F. Where stud system abuts structural columns or walls, including masonry walls, anchor ends of stiffeners to supporting structure. Use Zee clips as specified above. Weld "Z" shaped clips to structural members as shown on drawings. Maximum two feet (2') on center vertical.

G. Install supplementary framing, blocking, and bracing in the metal framing system wherever walls or partitions are indicated to support fixtures, equipment, services, casework, heavy trim and furnishings, and similar work requiring attachment to the wall or partition. Where type of supplementary support is not otherwise indicated, comply with the stud manufacturer's recommendations and industry standards in each case, considering the weight or loading resulting from the item supported.

H. Frame wall openings with extra studs, equal to the number of studs interrupted by wall openings, placed at each side of wall openings. Install runner tracks and jack studs above and below wall openings. Anchor tracks to jamb studs with shoes or by welding, and space jack studs same as full-height studs of the wall. Secure stud system all around to wall opening frame in the manner indicated.

I. Install bracing/bridging in accordance with manufacturer's instructions and design conditions.

J. Touch up field welds and damaged galvanized coating, except touch up of field cut studs is not required.

K. Frame both sides of expansion and control joints with separate studs; do not bridge the joint with components of stud system.

L. Install horizontal stiffeners in stud system, space (vertical distance) at no more than 54 inches on center. Weld at each intersection.

3.4 JOIST INSTALLATION

A. Install perimeter joist track sized to match joists. Align and securely anchor or fasten track to supporting structure at corners, ends, and spacings indicated on Shop Drawings.

B. Install joists bearing on supporting frame, level, straight, and plumb; adjust to final position, brace, and reinforce. Fasten joists to both flanges of joist track:
1. Install joists over supporting frame with a minimum end bearing of 1-1/2 inches (38 mm).
2. Reinforce ends and bearing points of joists with web stiffeners, end clips, joist hangers,

steel clip angles, or steel stud sections as indicated on shop drawings.

C. Space joists not more than two inches (51 mm) from abutting walls:
   1. Joist spacing: 16 inches (406 mm).

D. Frame openings with built-up joist headers consisting of joist and joist track, or another combination of connected joists if indicated.

E. Install joist reinforcement at interior supports with single, short length of joist section located directly over interior support, with lapped joists of equal length to joist reinforcement, or as indicated on shop drawings:
   1. Install web stiffeners to transfer axial loads of walls above.

F. Install bridging at intervals indicated on shop drawings. Fasten bridging at each joist intersection as follows:
   1. Bridging: Combination of flat, taut, steel sheet straps of width and thickness indicated and joist track solid blocking of width and thickness indicated. Fasten flat straps to bottom flange of joists and secure solid blocking to joist webs.

G. Secure joists to load bearing interior walls to prevent lateral movement of bottom flange.

H. Install miscellaneous joist framing and connections, including web stiffeners, closure pieces, clip angles, continuous angles, hold down angles, anchors, and fasteners, to provide a complete and stable joist framing assembly.

END OF SECTION 05 40 00

SECTION 07 41 13 - PREFINISHED METAL ROOFING

CONDITIONS OF THE CONTRACT AND DIVISION 1, as applicable, apply to this Section.

PART 1 – GENERAL41 13

1.1 SECTION INCLUDES

A. Furnish all labor, materials, tools, equipment and services for all preformed roofing as indicated.

B. Coordinate with work of other trades.

C. It is the intent of this Section that the Work shall:
   1. conform to all applicable building code requirements and of authorities having jurisdiction;
   2. include, but not limited to:
      a. Preformed, prefinished metal roof panels;
      b. Roof insulation;
      c. Vapor barrier / underlayment;
      d. Substrate board, if shown or required by authorities having jurisdiction;
      e. Structural roof deck;
      f. Flashings;
      g. Gutters, downspouts and splash pans and splash blocks;
      h. Roof jacks;
      i. Roof curbs;
      j. All supplementary or miscellaneous items, appurtenances and devices incidental to or necessary for a sound, secure, weathertight, and complete installation.
   3. be performed by a single source contractor.

1.2 RELATED WORK

A. Division 5 Sections as required; generally: structural steel, steel joists, and miscellaneous metals.

B. Section 06 10 00 - Rough Carpentry

C. Section 07 62 00 – Roof Related Sheet Metal

D. Divisions 22, 23 and 26: All Sections of Work relating to or affecting the roofing system, including mechanical, plumbing and electrical items penetrating roofing system.

1.3 REFERENCES

A. American Institute of Steel Construction (AISC)
   1. Manual of Steel Construction

B. American Iron and Steel Institute (AISI)
   1. Cold Formed Steel Design Manual

C. ASTM International (ASTM)
   1. A780, Standard Practice for Repair of Damaged and Uncoated Areas of Hot-Dip Galvanized Coatings
   2. A792, Standard Specification for Steel Sheet, 55% Aluminum-Zinc Alloy-Coated by the Hot-Dip Process

3. C1289, Standard Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board
4. E108, Standard Test Methods for Fire Tests of Roof Coverings
5. E1514, Standard Specification for Structural Standing Seam Steel Roof Panel Systems
6. E1592, Standard Test Method for Structural Performance of Sheet Metal Roof and Siding Systems by Uniform Static Air Pressure Difference
7. E1646, Standard Test Method for Rate of Water Penetration Through Exterior Metal Roof Panel Systems By Uniform Static Air Pressure Difference
8. E1680, Standard Test Method for Rate of Air Leakage Through Exterior Metal Roof Panel Systems
9. E2140 - Standard Test method for water penetration of metal roof panel systems by static water pressure head

D. Underwriters' Laboratories (UL)
1. Tests for Uplift Resistance of Roof Assemblies
2. Tests for Impact Resistance of Roofing Materials

E. Factory Mutual Research Corporation (FM) (FMRC)
1. Class 1-90 Windstorm Rating
2. Class 1-SH (Test 4471) Hail Damage Rating

F. International Conference of Building Officials (ICBO)
1. ICBO Evaluation Services, Inc. Report No. ER-5409

G. Sheet Metal and Air Conditioning Contractors National Association, Inc. (SMACNA)
1. Architectural Sheet Metal Manual

H. ASCE-7 Wind uplifts requirements for geographical area.

I. International Building Code

1.4 QUALITY ASSURANCE

A. Manufacturer's Qualifications:
1. Manufacturer must have a minimum of three (3) years' experience manufacturing roof panels of the type specified for this Project. Panels specified in this Section shall be produced in a factory environment or by Manufacturer's certified and approved on-site roll forming equipment to assure the highest level of quality control. A letter certifying compliance should accompany the product material submittal.

B. Installer's Qualifications:
1. Installer of the system shall be an approved installer, certified and authorized by the Manufacturer as trained and qualified to install the Manufacturer's product. Provide a letter of certification from Manufacturer that installer has a minimum of three (3) year of metal roof panel installation experience preceding the date upon which work is to commence. **(Submit a copy with Proposal Form).**

C. Field Measurements: Prior to fabrication of panels, take field measurements of structure or substrates to receive panel system. Allow for trimming panel units, where final dimensions cannot be established prior to fabrication.

1.5 SYSTEM PERFORMANCE REQUIREMENTS

A. Performance Testing:

1. Roofing system shall be installed in accordance with ASCE-7-22 wind uplift requirements for geographical location.
2. Panel system shall have a Class “A” Fire Rating in accordance with ASTM E108.
3. Metal roof system must be installed to resist the roof design pressures calculated in accordance with IBC or authorities having jurisdiction. Determine panel bending and clip-to-clip strength by testing in accordance with ASTM E1592. Capacity for gauge, span or loading other than those tested may be determined by interpolating test results by engineer supplying calculations.
4. Metal roof system must meet the air infiltration requirements of ASTM E283 when tested with a 6.24 PSF pressure differential with resulting air infiltration of 0.0071 cfm/sq. ft.
5. Metal roof system must meet the water penetration requirements of ASTM E331 when tested with a 12.00 PSF pressure differential with no uncontrollable water leakage when five (5) gallons per hour of water is sprayed per square foot of roof area.
6. Intended for the slope of the building.
7. Finish or material intended for use within 1000 feet of the ocean.

1.6 SUBMITTALS

A. Product Data:
1. Manufacturer's specifications and other data needed to prove compliance with specified requirements.
2. Manufacturer's installation instructions.

B. Shop Drawings: Include layouts of panels, details of edge conditions, joints, corners, custom profiles, supports, anchorages, trim, flashing, closures and special details. Distinguish between factory and field assembly work.

C. Calculations:
1. All calculations shall be sealed by a professional engineer licensed in the State of California.
2. Engineering calculations defining cladding loads on all roof areas based on specified building codes, allowable clip loads and required number of fasteners to secure the panel clips to the designated substructure.
3. Uplift loads on clip fasteners with full recognition of prying forces and eccentric clip loading.
4. Calculate holding strength of fasteners in accordance with submitted test data provided by fastener Manufacturer based on length of embedment and properties of materials.

D. Samples:
1. Color charts or samples from Manufacturer’s full line of standard and custom Kynar 500® or Hylar 5000® finishes for Architect’s selection.
2. One (1) foot long sample of coated panel, including clips and fasteners.

E. Certifications:
1. Manufacturer's certification that fasteners, clips, backup plates, closures, roof panels and finishes meet specification requirements and wind uplift requirements.
2. Manufacturer’s certification that Installer meets requirements to install roof system and is qualified to obtain required warranties and has been certified for 3-years prior to proposal due date
3. Letter of certification from Manufacturer that installer is in compliance and meets specified requirements.

4. Letter of certification from Manufacturer that panels have been produced in a factory environment or with certified / approved fixed-base roll forming and leveler equipment.
5. Certified test results by a recognized testing laboratory or Manufacturer's laboratory (witnessed by a professional engineer) in accordance with specified performance test methods for each panel system.
6. Manufacturer's certification that materials are in compliance with the specifications, including but not limited to finish and panel material.
7. Manufacturer's affidavit that materials used in Project contain no asbestos.

F. Testing Reports: Showing metal panels have been tested in accordance with specified performance testing requirements.

G. Warranty: Manufacturer's warranty as specified.

1.7 INSTALLATION CONFERENCE

A. Refer to Section 01 31 13 – Project Coordination.

1.8 DELIVERY, STORAGE AND HANDLING

A. Delivery: Deliver metal roof system to job site properly packaged to provide protection against transportation damage.

B. Handling: Exercise extreme care in unloading, storing and erecting metal roof system to prevent bending, warping, twisting and surface damage.

C. Storage:
1. Store all materials and accessories above ground on well skidded platforms.
2. Store under waterproof covering.
3. Provide proper ventilation of metal roof system to prevent condensation build-up between each panel or trim / flashing component.

1.9 WARRANTY

A. Warrant the work specified herein against becoming unserviceable or causing an objectionable appearance resulting from either defective or non-conforming materials or workmanship. Warranty shall be a "Weather tightness" Warranty. Field Reports are required throughout Project and are to be supplied by a Manufacturer's Approved Technical Inspector. Manufacturer's personnel which are not Quality Control Technicians are not acceptable for inspection.
1. Roof Panels and Finish:
   a. Durability of the roof panels due to rupture, structural failure or perforation shall be warranted for a period of 20 years by the Manufacturer.
   b. The exterior color finish for painted roof panels shall be warranted by the Manufacturer for 20 years against chalking, blistering, peeling, cracking, flaking, checking and chipping.
2. Weathertightness:
   a. The entire roof system including all roof panels, flashings, curbs, interior gutters, etc. shall be warranted by the Manufacturer against leaks for a period of 20 years.
   b. The warranty shall be issued to the Owner by the Manufacturer at time of entire Project Substantial Completion.
   c. The warranty shall guarantee the entire roof system and associated work against defective materials and workmanship of installation.

d. The roof system shall include roof insulation, flashing, metal work, labor, and material shall be guaranteed against failure of workmanship and materials. Repair of the system by the Manufacturer, including materials and labor, shall be done at no cost to the Owner for duration of warranty period.

3. Roofing Contractor: Jointly with any subcontractors employed by him, shall guarantee the work required and performed under this contract will be free from defects in workmanship and materials, and that the building will be and remain waterproof for a five (5) year warranty period, after the Architect accepts the work as substantially complete. The warranty shall be in approved notarized written form, to obligate the Contractor, and subcontractors, to make good the requirements of the warranty. The warranty will be held jointly with the Bonding Company for the first two (2) years and the Manufacturer for the remaining three (3) years.

PART 2 - PRODUCTS

2.1 APPROVED MANUFACTURERS

A. Manufacturers listed who produce products equivalent to those specified are approved for use on the Project. Other Manufacturers must have a minimum of ten (10) years' experience manufacturing equivalent products to those specified and comply with requirements of Division 1 regarding substitutions to be considered.
   1. AEP-Span
   2. IMETCO
   3. Garland
   4. Tremco

B. Materials shall be manufactured, specified, or accepted in writing by Roofing Manufacturer issuing the warranty. Proposed materials shall ensure full system warranty from said Manufacturer.

C. Roof panels with lap type side joints or those requiring battens or other non-integral sealing means or exposed structural fasteners will not be acceptable.

D. Roof panels shall be roll formed in the Manufacturer's plant to control quality or by certified / calibrated / approved on-site roll-forming equipment only.

E. Substitute Manufacturers will be approved by written addendum to all bidders. Voluntary alternates will not be considered. Substitutions will not be permitted after the bid date of this project.

F. Roof panels proposed for substitution shall fully comply with specified requirements in performance.

G. Roof panels shall have a 20 year foamable mastic sealant plant-installed sealant for quality control. No solid butyl sealant or extruded rubber will be accepted.

2.2 MATERIALS

A. Metal Roof Panels:
   1. Sheet Material: Aluminum
   2. Texture: Striations.
   3. Manufacturer's stainless steel panel clips spaced according to Structural Engineer's calculations as instructed for wind uplift requirements. Screw placement and spacing for wind uplift rating requirements and design specification

for application, in length necessary to penetrate substrate minimum ¾" as supplied by Metal Roof Panel Manufacturer.

2.3 MISCELLANEOUS MATERIALS

A. Fasteners: All self-tapping / self-drilling fasteners, bolts, nuts, self-locking rivets and other suitable fasteners shall be designed to withstand specified design loads.
   1. Use long life fasteners for all exposed fastener applications.
   2. Provide stainless steel fasteners with a factory applied coating in a color to match metal roof system application.
   3. Provide neoprene washers under heads of exposed fasteners.
   4. Locate and space all exposed fasteners in a true vertical and horizontal alignment. Use proper torque settings to obtain controlled uniform compression for a positive seal without rupturing the neoprene washer.
   5. Fasteners used to attach metal "Z" purlins shall be size and type recommended by Manufacturer to achieve FM 1-90 requirements.

B. Accessories:
   1. General: Provide all components required in accordance with the metal roof system Manufacturer's approved shop drawings for a complete metal roof system to include panels, panel clips, trim / flashing, fascias, ridge, closures, sealants, fillers, and other required items.
   2. Cover Board: Glass-Faced Gypsum Roof Board equal to UL rated Type X "DensDeck Prime Roof Board w/ Eonic Technology" as manufactured by Georgia-Pacific. Stock board sizes shall be 48" x 96" x ½" or as indicated on drawings for roof assembly. Provide as required by manufacturer recommendation for project roof system(s). Approved substitute, SECUROCK by USG.
   3. Waterproofing Membrane: 40 mil thick SBS modified bituminous product of self-adhering type with non-stick surface supplied by the manufacturer of the metal roofing system.
   4. Prefabricated Roof Curbs and Equipment Supports, Roof Jacks, and Rooftop Walkways: Shall be product of Manufacturer approved by the metal roof system Manufacturer and as specified below. Curbs shall be type recommended by roofing Manufacturer to warranty curb and roofing for 20 years.
   5. Closures: All outside closures shall be fabricated from Galvalume® sheet steel of the same gauge, finish and color as the panels. Galvanized base is unacceptable.
   6. Tape Seal: Pressure sensitive, 100 percent solids, polyisobutylene compound sealing tape with a release paper backing. Provide permanently elastic, non-sagging, non-toxic, non-staining tape seal approved by the metal roof system Manufacturer.
   7. Joint Sealant: One-part elastomeric polyurethane sealant approved by the metal roof system Manufacturer.
   8. Splash Pans and Splash Blocks: Shall be as specified in Section 07 62 00, Sheet Metal Flashing, Gutters, Downspouts and Trim.

2.4 PANEL FABRICATION

A. Material shall be in-line tension leveled prior to roll forming panel profile.

B. Roll form panels in continuous lengths, full length of detailed runs.

C. Standard panel length shall be 45 feet, unless approved by the metal roof system Manufacturer.

D. Fabricate trim / flashing and accessories to detailed profiles.

E. Fabricate trim / flashing from same material as panel.

2.5 PREFABRICATED ROOF CURBS AND EQUIPMENT SUPPORTS

A. General: Comply with loading and strength requirements as indicated where units support other work. Coordinate dimensions of curbs and supports with equipment supplier/manufacturer.

B. Fabricate curbs of structural quality 0.080 inch aluminum, factory baked finished after fabrication in coating compatible with and matching roof panel finish, with mitered and continuously welded corner joints. Provide integral base plates and water diverter crickets. Front base plate shall be a minimum of 18 inches from beginning of water diverter. Curbs shall be designed to install under metal roof system on the high side and over the metal roof system on the low side.

C. Curbs shall be of size and design shown on the drawings or required, with minimum height of eight (8) inches above finished metal roof system.

D. Curbs shall be constructed to match slope of roof and provide a level top surface for mounting equipment in a level horizontal position, unless shown otherwise.

E. Curb flanges shall be constructed to match configuration of roof panels.

F. Coordinate work with mechanical installer to ensure matching finish of curbs provided for roof mounted mechanical equipment.

2.6 PREFABRICATED ROOF JACKS

A. Pipe flashings shall be one piece EPDM (ethylene propylene diene monomer) molded rubber boot having a serviceable temperature range of minus 60 degrees F to 270 degrees F and shall be resistant to ozone and ultraviolet rays. Units shall have an aluminum flanged base ring.

B. Provide high temperature rated rubber roof jacks at hot stacks as applicable, including but not limited to boiler flues, heater vents, steam relief, or similar conditions. Rating minimum of 400 degrees F.

PART 3 - EXECUTION

3.1 SURFACE CONDITIONS

A. Inspect installed work of other trades and verify that such work is complete to a point where this work may continue.

B. Verify that installation may be made in accordance with approved shop drawings and Manufacturer's instructions. This specifically includes verifying the secondary structurals and/or decking are installed to meet building code requirements. Coordinate with metal roof system Manufacturer to insure that reduced clip spacings at eave, rake, ridge and corner areas are accommodated. Supply calculations, sealed by a professional engineer licensed in the State of Texas, showing required clip spacings.

C. Discrepancies:
1. Bring discrepancies to the attention of the Architect.
2. Do not proceed with installation until discrepancies have been resolved.

3.2 INSTALLATION OF METAL ROOFING OVER METAL DECK

A. Install metal deck to structure to meet ASCE-7 wind uplift requirements.

B. Install metal roof system so that it is weathertight, without waves, warps, buckles, fastening stresses or distortion, allowing for expansion and contraction. Isolate dissimilar metal contact with proper taping and / or coatings.

C. Coordinate Work, with installation of other associated Work, to ensure quality application.

D. Coordinate Work with installation of associated metal flashings and building walls.

E. Coordinate Work to minimize foot traffic and construction activity on installed finished surfaces.

F. Install substrate boards, hat channels, purlins, or furring channels in accordance with Manufacturer’s recommendations.

G. Install insulation over metal deck in conformance with approved shop drawings and Manufacturer's instructions.

H. Install substrate board over insulation in conformance with approved shop drawings and Manufacturer's instructions.

I. Install waterproofing membrane barrier over substrate board in conformance with approved shop drawings and Manufacturer's instructions. Lap and tape seal all joints in accordance with Manufacturer’s instructions.

J. Install one layer of minimum 18” wide (each roof plane) underlayment / waterproofing membrane in valleys, eaves, rakes, hips and ridges prior to installation of the field underlayment / membrane.

K. Remove protective strippable plastic film covering from metal roof panels, trim, and related items in accordance with Manufacturer's instructions.

L. Install metal roof panels, trim, and related items in accordance with approved samples with approved shop drawings and Manufacturer's instructions.

M. Provide concealed anchors at all panel attachment locations.

N. Install panels plumb, level and straight with seams and ribs parallel, conforming to design as indicated.

O. Install roof jacks in accordance with approved shop drawings and Manufacturer's instructions. Install roof jacks in flat of the roof panel. Coordinate location so roof panel seams are not altered.

P. Install roof curbs in accordance with approved shop drawings and Manufacturer's instructions. Anchor curbs securely in place with provisions for thermal and structural movement. Provide prefinished metal cover around all curbs to match color and finish of metal roof panels.

Q. Install gutters and downspouts in accordance with approved samples with approved shop drawings and Manufacturer's instructions. Gutter design for required gutter and downspout sizes shall be submitted prior to installation.

R. Install downspouts plumb and level, attached to columns or wall with straps located at top and bottom of downspout and maximum ten (10) feet on center.

S. Install splash pans and splash blocks under discharge port of downspouts. Install splash pan over a protection (walkway) pad for downspouts located at roof level.

T. Install gutter screen over installed gutter. Secure screen to spacer with self-tapping screw.

U. Provide expansion joints on ends of gutters spaced maximum 50 feet on center. Install snap-on cover over expansion joint.

3.3 CLEANING AND PROTECTION

A. Remove scraps and debris and leave work area clean.

B. Clean exposed metal surfaces, removing substances which might cause corrosion of metal or deterioration of finishes. Paint areas where finish is damaged on prefinished metal by painting with a compatible paint in color to match undamaged finish.

C. Clean other work damaged or soiled by Work of this Section.

D. Protect finished work from damage.

3.4 INSPECTION

A. Architect and Contractor reserve the right to inspect the work during application. Upon completion of the work, if inspection discloses that roofing is not in accordance with this specification or has been damaged, Contractor agrees to furnish additional materials necessary to make repairs and place work in an acceptable condition at no additional expense to Owner.

END OF SECTION

SECTION 09 50 00

WOODWORKS LINEAR VENEERED PANELS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

Drawings and general conditions of Contract, including General and Supplementary Conditions and Divisions-1 Specification sections apply to work of this section.

1.2 SUMMARY

A. Section Includes:

1. WoodWorks Linear Veneered Panels
2. Exposed grid suspension system.
3. Wire hangers, fasteners, main runners, cross tees, wall angle moldings and accessories.

B. Related Sections:

1. Section 09 53 00 - Acoustical Ceiling Suspension Assembly
2. Section 09 20 00 - Plaster and Gypsum Board
3. Section 09 22 16 - Non-Structural Metal Framing
4. Divisions 23 (15) - HVAC
5. Division 26 (16) Sections - Electrical Work

C. Alternates

1. Prior Approval: Unless otherwise provided for in the Contract documents, submit proposed product substitutions no later than TEN (10) working days prior to the date established for receipt of bids. Acceptability of a proposed substitution is contingent upon the Architect’s review and acceptance. Approved products will be set forth by the Addenda. If a substitution is included in a Bid and is not approved by an Addendum, the specified products shall be provided as in place of the substitute without additional compensation.
2. Submittals, which do not provide adequate data for the product evaluation, will not be considered. The proposed substitution must meet all requirements of this section, including but not necessarily limited to, the following: Single source materials suppliers (if specified in Section 1.5); panel design, size, composition, color, and finish; suspension system component profiles and sizes; compliance with the referenced standards.

1.3 REFERENCES

A. American Society for Testing and Materials (ASTM):

1. ASTM A 641 Standard Specification for Zinc-Coated (Galvanized) Carbon Steel Wire.
2. ASTM A 653 Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) by the Hot- Dip Process.

3. ASTM A 1008 Standard Specification for Steel, Sheet, and Cold Rolled Carbon, Structural, High-Strength Low-Alloy and High-Strength Low-Alloy with Improved Formability.
4. ASTM C 635 Standard Specification for Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings.
5. ASTM C 636 Recommended Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels.
6. ASTM E 84 Standard Test Method for Surface Burning Characteristics of Building Materials.
7. ASTM E 580 Application of Ceiling Suspension Systems for Acoustical Tile and Lay-In Panels in Areas Requiring Seismic Restraint.
8. ASTM C 423 Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method.
9. ASTM E 1264 Classification for Acoustical Ceiling Products.
10. Hardwood Plywood & Veneer Association (HPVA)
11. International Building Code
12. ASHRAE Standard 62 1 2004 Ventilation for Acceptable Indoor Air Quality
13. NFPA 70 National Electrical Code
14. ASCE 7 American Society of Civil Engineers, Minimum Design Loads for Buildings and Other Structures
15. International Code Council-Evaluation Services - AC 156 Acceptance Criteria for Seismic Qualification Testing of Non-structural Components
16. International Code Council-Evaluation Services Report - Seismic Engineer Report
    A. ESR 1308 - Armstrong T-Bar or Dimensional Suspension
17. California Air Resources Board (CARB) compliant
18. LEED - Leadership in Energy and Environmental Design is a set of rating systems for the design, construction, operation, and maintenance of green buildings

1.4 SUBMITTALS

A. **Shop Drawings:** Layout and details of ceilings. Show locations of items that are to be coordinated with or supported by the ceilings.

B. **Installation Instructions:** Submit manufacturer’s installation instructions as referenced in Part three, Installation.

C. **Product Data:** Submit manufacturer’s technical data for each type of ceiling unit and suspension system required.

D. **Samples:** Real Wood Veneer on fire rated particle board – Semi-gloss tinted topcoat – Clear Finish

E. **Certifications:** Manufacturer’s certifications that products comply with specified requirements, including laboratory reports showing compliance with specified tests and standards.

F. **Non-Conformance:** All products not conforming to the requirements of this specification and or the manufacturer’s published values are to be disposed. The Contractor performing the work will replace with approved product at their expense.

1.5 QUALITY ASSURANCE

A. Single-Source Responsibility: Provide ceiling panel units and grid components by a single manufacturer.

B. Fire Performance Characteristics: Identify ceiling components with appropriate markings of applicable testing and inspecting organization.

1. Surface Burning Characteristics: As follows, tested per ASTM E-84 and complying with ASTM E 1264 for Class A products.
2. HPVA (Hardwood Plywood and Veneer Association) certification and audit program per ASTM E-84 tunnel test.

C. Woodworking Standards: Manufacturer must comply with specified provisions of Architectural Woodworking Institute quality standards.

D. Coordination of Work: Coordinate ceiling work with installers of related work including, but not limited to building insulation, gypsum board, light fixtures, mechanical systems, electrical systems, and sprinklers.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Store ceiling components in a dry interior location in their cartons prior to installation to avoid damage. Store cartons in a flat, horizontal position. The protectors between the panels should not be removed until installation.

B. Do not store in unconditioned spaces with humidity greater than 55 percent or lower than 25 percent relative humidity and temperatures lower than 50 degrees F or greater than 86 degrees F. Panels must not be exposed to extreme temperatures, for example, close to a heating source or near a window with direct sunlight.

C. Handle ceiling units carefully to avoid chipped edges or damage to units in any way.

1.7 PROJECT CONDITIONS

A. Wood ceiling materials should be permitted to reach room temperature and have a stabilized moisture content for a minimum of 72 hours before installation. (Remove plastic wrap to allow panels to climatize).

B. The wood panels should not be installed in spaces where the temperature or humidity conditions vary from the temperatures and conditions that will be normal in the occupied space.

C. As interior finish products, the veneered panels are designed for installation in temperature conditions between 50 degrees F and 86 degrees F, in spaces where the building is enclosed, and HVAC systems are functioning and will be in continuous operation. Relative humidity should not fall below 25 percent or exceed 55 percent.

1.8 WARRANTY

A. Veneered Wood Panel: Submit a written warranty executed by the manufacturer, agreeing to repair or replace panels that fail within the warranty period. Failures include, but are not limited to:

1. Veneered Wood Panels: Defects in materials or factory workmanship.
2. Grid System: Rusting and manufacturing defects.

B. Warranty Period:

1. Veneered Wood panels: One (1) year from date of installation.
2. Grid: Ten years from date of installation.

C. The Warranty shall not deprive the Owner of other rights the Owner may have under other provisions of the Contract Documents and will be in addition to and run concurrent with other warranties made by the Contractor under the requirements of the Contract Documents.

1.9 MAINTENANCE

A. Extra Materials: Deliver extra materials to Owner. Furnish extra materials described below that match products installed. Packaged with protective covering for storage and identified with appropriate labels.

1. Ceiling Units: Furnish quality of full-size units equal to 2.0 percent of amount installed.
2. Exposed Suspension System Components: Furnish quantity of each exposed suspension component equal to 1.0 percent of amount installed.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Basis of Design WoodWorks Linear Veneered Panels:

1. Armstrong World Industries, Inc.
2. Or approved equal

B. Suspension Systems:

1. Armstrong World Industries, Inc.
2. Or approved equal

2.2.0 WOOD CEILING UNITS

A. Ceiling Panels Type WF-1:

1. Surface Texture: Smooth
2. Composition: Real wood veneer on fire rated particle board
3. Finish(s): Real Wood Veneer
   - **Plain Slice Walnut (NWN)**
4. Plank Width:
   - **6” Plank Modules (Nominal)** Width: 5-3/4-inch (Actual)

   Panel Width:
   - 6” Plank Module Panel Width: 24-inch (Nominal): 23-3/4-inch (Actual)

   Panel Length Size(s):
   - 6” Plank Module Panel Length: 96-inch (Nominal): 95-3/4-inch (Actual) - With 1/4” reveal panel to panel @ length & Width
5. Acoustical Performance Infill Options:

   1) Back Stage Noir - Item 1318

6. Flame Spread:

   Class A: ASTM E84 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less.

   CAN/ULC S102 surface burning characteristics. Flame Spread Rating 25 or less. Smoke Developed Classification 50 or less.

7. Acceptable Product: WoodWorks Linear Veneered Panels – items [6690F01W1 _ _ _] and [6691F01W1 _ _ _] as manufactured by Armstrong World Industries. Or approved equal.

B. Accessories:

1. Backer Clip - Item 5687
2. Tee Bar Hook – Item 5986
3. Wood Screws – Item 7123PKG300
4. Safety Cable – Item 6091
5. Support Hanger – Item SH12
6. Beam End Retaining Clip – Item BERC2

2.2.1 SUSPENSION SYSTEMS

A. Components: All main beams and cross tees shall be commercial quality hot dipped galvanized steel as per ASTM A653. Main beams and cross tees are double-web steel construction with 15/16-inch type exposed flange design. Exposed surfaces chemically cleansed, capping prefinished galvanized steel in baked polyester paint. Main beams and cross tees shall have rotary stitching.

1. Structural Classification: ASTM C635 (Heavy Duty)
2. Color: Tech Black.
3. Acceptable Product: Prelude XL 15/16" 12’ HD Main beam item 7301BL, Prelude XL 2’ Cross Tee XL8320BL as manufactured by Armstrong World Industries, Inc.
4. 12-Gauge Hanger Wire – Item 7891

B. Attachment Devices: Size for five times design load indicated in ASTM C 635, Table 1, Direct Hung unless otherwise indicated.

C. Wire for Hangers and Ties: ASTM A641, Class 1 zinc coating, soft temper, pre-stretched, with a yield stress load of at least times-three design load, but not less than 12 gauge.

D. Accessories/Edge Moldings and Perimeter Trim:

a. 7/8” Angle Wall Molding - item7800BL
b. 6” Veneered Trim with 4 Clips – item 6481F07W1H6---(Finish NWM) - W/Faux Wood Edgebanding
c. Replacement Trim Clip – item 5925
d. Adjustable Trim Clip – item 7239
e. Axiom Vector Straight Trim - Recommend in Black 6” and up – AX_VESTR_ _ (Finish BL)
f. WoodWorks Edgebanding (Coordinating Real Wood) – item 6408D5_ _ _ (Finish NWM)

PART 3 - EXECUTION

3.1 EXAMINATION

A. Do not proceed with installation until all wet work such as concrete, terrazzo, plastering and painting has been completed and thoroughly dried out.

B. Proper designs for both supply air and return air, maintenance of the HVAC filters and building interior space are essential to minimize soiling. Before starting the HVAC system, make sure supply air is properly filtered and the building interior is free of construction dust.

3.2 PREPARATION

A. Measure each ceiling area and establish layout of acoustical units to balance border widths at opposite edges of each ceiling. Avoid use of less than half width units at borders and comply with reflected ceiling plans. Coordinate panel layout with mechanical and electrical fixtures.

B. WoodWorks ceiling materials should be permitted to reach room temperature and have a stabilized moisture content for a minimum of 72 hours before installation. (Remove plastic wrap to allow panels to climatize).

3.3 INSTALLATION

A. Interior WoodWorks products, the veneered wood panels are designed for installation in temperature conditions between 50 degrees F and 86 degrees F, in spaces where the building is enclosed, and HVAC systems are functioning and will be in continuous operation. Relative humidity should not fall below 25 percent or exceed 55 percent.

B. Install suspension system and panels in compliance with ASTM C636, ASTM E580, with the approval of the authorities having jurisdiction, and in accordance with the manufacturer's WoodWorks Linear Veneered Panels Installation Instructions.

3.4 ADJUSTING AND CLEANING

A. Replace damaged and broken panels.

B. Clean exposed surfaces of ceilings panels, including trim, edge moldings, and suspension members. Comply with manufacturer's instructions for cleaning and touch up of minor finish damage.

END OF SECTION

09 51 26

SECTION 09 77 33 FIBER REINFORCED PLASTIC PANELS

PART 1 GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes: Material identification and adhesives to existing wall surfaces or new unfinished gypsum wall board.
   1. Fiberglass reinforced plastic panels (FRP)
   2. Panel moldings and trim.
   3. Adhesion.

B. Related Sections:

1.3 REFERENCES

A. ASTM E84 - Surface Burning Characteristics of Building Materials.

1.4 SUBMITTALS

A. Submit product data under provisions of Section 01 33 00.

B. Submit product data for panels and accessories.

C. Submit samples under provisions of Section 01 3300.

D. Submit two samples 4 x 4 inches in size illustrating panel pattern and color. Submit two 12 inch long samples of panel moldings.

E. Submit manufacturers installation Instructions.

1.5 OPERATION AND MAINTENANCE DATA

A. Submit maintenance data under provisions of Section 01 77 00.

B. Include data for cleaning and stain removal.

C. Include manufacturer's recommendations for cleaning materials, polishes, and waxes.

1.6 REGULATORY REQUIREMENTS

A. Conform to flame/smoke developed rating of 25/450 when tested in accordance with ASTM E84.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Deliver, store, and protect products to site under provisions of Section 01 61 00.

1.8 ENVIRONMENTAL REQUIREMENTS

A. Do not install fiberglass reinforced plastic panels when temperatures are below 60 degrees F or above 90 degrees F.

1.9 MAINTAIN TEMPERATURE RANGE FOR 24 HOURS BEFORE, DURING, AND 72 HOURS AFTER INSTALLATION OF PANELS.WARRANTY

A. Provide one year warranty under provisions of Section 01 77 00.

B. Include coverage for surface staining and finish deterioration.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Crane Composites, Inc., www.cranecomposites.com.

B. Glasteel Inc., www.glasteel.com.

C. Lasco Products, www.lascoboard.com.

D. Marlite, www.marlilte.com.

E. Nudo Products, Inc., www.nudo.com.

F. Panolam Industries, www.panolam.com.

G. Substitutions: Under provisions of Section 01 25 13.

2.2 MATERIALS

A. Fiberglass reinforced plastic panels of 0.090-inch thickness in 4 x 8 foot sheet sizes.

B. Panels to have surface finish color as selected from manufacturer’s full standard range

C. Panels to have a flame/smoke rating of 25/450 for a Class A finish when tested according to ASTM E84.

2.3 ACCESSORIES

A. Moldings: Extruded aluminum or plastic panel accessories in maximum practical lengths. Finish to match panels.

B. Adhesive: Latex based non-flammable construction adhesive.

C. Sealant: Silicone sealant specified in Section 07 92 00.

D. Substitutions: Under provisions of Section 01 25 13.

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify that surfaces and openings are ready to receive work.

B. Verity that field measurements and tolerances are as instructed by manufacturer.

C. Verify that required utilities are available, in proper location, and ready for use.

D. Beginning of installation constitutes acceptance of existing substrate surface conditions by installer.

3.2 PREPARATION

A. Clean substrate surfaces.

B. Protect elements of work adjacent to work of this Section from damage or disfiguration.

3.3 INSTALLATION

A. Install panels and accessories in accordance with manufacturer's instructions.

B. Coordinate location of panel joints to minimize interference with fixtures and accessories. Apply panel adhesive at 6 inches on center over entire field of panel.

C. Set panel ends and edges in moldings.

D. Seal moldings and panel joints with sealant.

3.4 FIELD QUALITY CONTROL

A. Panels shall lay flush with substrate, without air pockets or warpage.

B. Remove and replace panels not conforming to manufacturer's installation guidelines.

3.5 CLEANING

A. Clean work under provisions of Section 01 77 00.

3.6 PROTECTION

A. Protect finished installation under provisions of Section 01 61 00.

END OF SECTION 09 77 33

SECTION 11 90 00 MISCELLANEOUS EQUIPMENT

1. PART 1 GENERAL

1.1 SECTION INCLUDES

A. Cushioned Rubber Flooring.

B. Gas Range.

C. Range Hood and Blower.

D. Microwave.

E. Dishwasher.

F. Refrigerator/Freezer.

G. Bicycle Rack.

H. Gear Grid Lockers.

I. Ceiling Fan.

J. Stainless Steel Corner Wall Guard.

K. Not Used 6

L. Washer

M. Dryer

N. Television Mount

O. Shop Room Equipment

P. Turnout Dryer

Q. Undercounter Refrigerator

R. Coffee Maker

S. Not Used 6

T. Shower Curtain

U. Hook to Backboard

V. Slide Pole Landing Mat

W. Slide Pole

X. Extractor

Y. Not Used 6

Z. Wood Slat Fence

AA. Not Used 6
BB. Not Used

CC. Map Board

DD. Epoxy on Slab

1.2 REFERENCES

A. 2010 Americans with Disabilities Act (ADA) Standards for Accessible Design.

B. CBC - California Building Code, (CCR) California Code of Regulations , Title 24, Part 2.

1.3 SUBMITTALS

A. Submit product data and manufacturer's installation instructions for each item under provisions of District's Division 01 Requirements.

1.4 REGULATORY REQUIREMENTS

A. Conform to CBC, California Building Code, (CCR), Title 24, Part 2 and the 2010 ADA Standards for Accessible Design for accessibility.

1.5 OPERATION AND MAINTENANCE DATA

A. Submit operation and maintenance data under provisions of District's Division 01 Requirements.

1.6 WARRANTY

A. Provide District with all warranty paperwork for all appliances.

2. PART 2 PRODUCTS

2.1 PRODUCTS

A. Cushioned Rubber Flooring (Exercise Room and elevator cab): https://commercial.tarkett.com/en_US/collection-C000399-triumph-multi-functional-and-sports-rubber-tile, Tarkett Triumph Rubber Tile - hammererd finish, SlideLock locking system, 3/8" thick 24"x24" with matching transition strip down to meet polished concrete slab at door threshold. Colors selected:

1. Fitness Room - LB9 Rainstorm.

2. Elevator Cab - KN2 Expedition.

3. At Fitness Room only, 18" high wall base to be Tarkett Replay sheet product, color selected is Solid Night (see interior elevations for wall locations).

B. Duel Fuel Range: Wolf Range Company, GR486G. 48" dual fuel range 6 burners and infrared dual griddle, complete with standard features. Full side panels and skirt. Accessories include: red knobs, front legs covers, filler trim, and stainless steel bezel. 6

C. Range Hood and Blower: Wolf Range Company, 27" deep Model PW482718, with 1200 cfm internal blower model 814423, full width stainless steel duct cover flush to ceiling and low profile roof jack. 6

D. Microwave: GE Profile 2.2 Cu. Ft. Built-In Sensor Microwave Oven with 30-inch trim kit JX7230SLSS. One required. 6

E. Dishwasher: GE Model GLDT696DSS, stainless steel finish. One (1) required. 6

F. Refrigerator/Freezer: Samsung RF28HMEDBSR, stainless steel (Two required)

G. Bicycle rack: Landscape Structures Inc, Loop rack @ design 5/-4" long, 2-3/8" outside diameter pipe, Tender Tuff coating, finish color Grey. (One required)

H. Gear Grid Lockers: Gear Grid, www.geargridcorp.com, 24" wide x 24" deep x 72" height, standard freestanding lockers (12 total). Each locker shall have name 6

plate, Three (3) hooks, top shelf, geardryer stainless steel jacket holder, gearhanger hanging rod, and Two (2) heavy duty hangers and door with padlock option. Color selected - Red Baron.

I. Ceiling Fan:

1. Y Lighting Rudolph Ceiling Fan by Minka Aire Fan, Product No. MAF613133 Coal finish with standard 12" downrod, available at www.ylighting.com 3 blades, 52" diameter span, with control to sync and operate multiple fans within a single room (two required). 6

2. Provide Westinghouse Saf-T-Grid kit for attachment of ceiling fan to T-Bar ceiling grid. 6

J. Stainless Steel Corner Wall Guard: Korogard, Model GS10, stainless steel, 7' long with 1.5" corner legs with radius edges and top. (quantity of 21)

K. not used 6

L. Washer: Whirlpool WFW95HEDW (one required). 6

M. Dryer: Whirlpool WED97HEDW, electric (one required). 6

N. Television Mount: Peerless smartmount articulating wall arm.

O. Shop Room Equipment: 6

1. Pegboard Panel - Grainger 32"H x 96"W steel pegboard panel with 1200 lb. load capacity, black, model 35-P-3296BK, https://www.grainger.com/product/WALL-CONTROL-Steel-Pegboard-Panel-with-14K274?cm_sp=Product_Details-_-Products_Based_on_Your_Search-_-IDPPLARECS&cm_vc=IDPPLARECS

P. Turnout Dryer: Alliance Unimac, model UTGC6EDG44, 208V - 50/60 Hz 3Ph, 35 amp breaker (one required).

Q. Undercounter Refrigerator: GE stainless steel compact refrigerator, model GCE06GSHSB (one required).

R. Coffee Maker: Katum Bunn CWTF15-1 (two required).

S. not used 6

T. Shower Curtain: Inpro Corporation, www.inprocorp.com, Clickeze Privacy System, product to be Shield by Panaz Antimicrobial Fabric, stainless steel rod and hook rings. Pattern to be selected from entire pattern range (five required for crew restroom shower and one at Decon shower).

U. Hook for Backboard: www.thelifeguardstore.com, spineboard mounting bracket SKU 10-994 (one required in apparatus bay).

V. Slide Pole Landing Mat: 2" thick, 32" diameter closed-cell, black neoprene impact absorbing mat as provided by McIntire Brass Works, Inc. Recess into concrete slab area. Mat shall be nonslip, durable, cleanable, and suitable for fire station slide pole landing application. Install mat securely and flush with adjacent finished floor, with no raised edges or trip hazards.

W. Slide Pole: McIntire Model 19, https://www.slidepole.com/model19.htm# single piece cold-drawn brass pole, 2-1/2" diameter with 5/32" wall thickness with polished cast bronze ceiling trim ring. Install per drawing detail 9/A10.3 and custom size landing mat (see item 2.1.V above) recessed flush with slab.

X. Extractor Washer: UniMac UW65 with UniLinc Touch Control Options. 65 Lb. capacity, 31 inch cylinder diameter, 22.1 inch cylinder depth, and 9.7 cu. ft. volume. (one required). 6

Y. Not used. 6

Z. Wood Slat Fence: Accoya Product, https://www.accoya.com/ See drawings for profile, size, attachment details. Untreated finish for natural weathering. Submit product information, installation instructions and warranty information for review.

AA. Not used. 6

BB. Not used. 6

CC. Map Board: US Markerboard, horizontal sliding unit, wall mounted 12' wide x 4'-6" tall. System includes fixed tack board back panel, 3 tracks with 1'- 4' wide panel per track. Outer front panel to be magnetic white board with marker tray and the 2 middle boards to be tack boards. Standard clear aluminum frame (one required in apparatus bay).

DD. Epoxy on Slab: At second floor slide pole room slab, provide red epoxy https://www.homedepot.com/p/Rust-Oleum-RockSolid-70-oz-Metallic-Cherry-Bomb-Garage-Floor-Kit-2-Pack-286896/205725416 with anti-slip grit additive https://www.amazon.com/Rust-Oleum-60111-Rocksolid-Antislip-Additive/dp/B015EENBHK.

3. Part 3 EXECUTION

3.1 INSTALLATION

A. Install equipment in accordance with manufacturer's printed instructions and as indicated on the drawings.

B. Furnish all necessary hardware, anchors, inserts, connections, and embedded items necessary for proper installation. Coordinate with work of other sections.

C. Supply all appliance and equipment warranty paperwork to owner for completion.

END OF SECTION

SECTION 142100

ELECTRIC TRACTION ELEVATORS

PART 1: GENERAL

1.1 SUMMARY

A. Section Includes: Electric Traction Elevators.

B. Products Supplied but Not Installed Under this Section:
1. Hoist Beam
2. Pit Ladder
3. Inserts mounted in block walls for rail attachments

C. Work Supplied Under Other Sections:
1. Temporary lighting, including temporary lighting in hoistway for machine space with switch located in hoistway on the strike jamb side of top landing door.
2. Main line disconnects for each elevator.
   a. One fused three phase permanent power in building electrical distribution room
3. Hoistway ventilation shall be in accordance with local and national building code requirements.
4. Guide Rail Support shall be structurally adequate to extend from pit floor to top of hoistway, with spans in accordance with requirements of authority having jurisdiction and final layouts.
5. Removable barricades at all hoistway openings, in compliance with OSHA 29 CFR 1926.502 in addition to any local code requirements.
6. Lifeline attachments capable of withstanding 5000 lb load in accordance with OSHA 29 CFR 1926.502. Provide a minimum of 2 at the top, front of each hoistway.
7. Pit lighting: Fixture with switch and guards. Provide illumination level equal to or greater than that required by ASME A17.1/CSA B44 2000, or applicable version.
8. Control space lighting with switch. Coordinate switch with lighting for machine space as allowable by code.

D. Related sections:
1. Section 015000 – Temporary Facility and Controls
2. Section 033000 - Cast-in-Place Concrete:
3. Section 042000 - Unit Masonry
4. Section 055000 - Metal Fabrications
5. Section 071600 - Cementitious Waterproofing
6. Section 230000 - Heating, Ventilating, and Air Conditioning
7. Section 260000 - Electrical
8. Section 263000 - Electric Power Generating and Storing Equipment
9. Section 273000 - Voice Communications
10. Section 283100 - Fire Detection and Alarm
11. Section 310000 – Earthwork

E. Industry and government standards:
1. ICC/ANSI A117.1 Accessible and Usable Buildings and Facilities
2. ADAAG - Accessibility Guidelines for Buildings and Facilities
3. ANSI/NFPA 70, National Electrical Code
4. ANSI/NFPA 80, Standard for Fire Doors and Fire Windows

5. ASME/ANSI A17.1, Safety Code for Elevators and Escalators.

1.2 DESCRIPTION OF ELEVATOR

A. Elevator Equipment: KONE Machine Room-Less gearless traction elevator
B. Equipment Control: KCM831
C. Drive: Non Regenerative
D. Quantity of Elevators: 1 Elevator
E. Landings: 2
F. Openings: 2 Front Openings, 0 Back Openings
G. Main Power Supply: 480 V Volts + 5%, three-phase
H. Operation: Simplex
I. Machine Location: Inside the hoistway mounted on car guide rail
J. Control Space Location: Remote room
K. Elevator Equipment shall conform to the requirements of seismic zone: Seismic
L. Maintenance Service Period: 12 Months

1.3 PERFORMANCE REQUIREMENTS

A. Car Performance
   1. Car Speed ± 5% of contract speed under any loading condition or direction of travel.
   2. Car Capacity: Safely lower, stop and hold (per code) up to 125% of rated load.

B. System Performance
   1. Vertical Vibration (maximum): 15 mg ISO187338/ISO 8041 system pk – pk
   2. Horizontal Vibration (maximum): 12 mg ISO187338/ISO 8041 system pk – pk
   3. Jerk Rate (maximum): 3.3 ft/sec3
   4. Acceleration (maximum): 1.3 ft/sec2
   5. In Car Noise: 55 dB(A) Maximum
   6. Leveling Accuracy: ±0.2 inches
   7. Starts per hour (maximum): 240

1.4 SUBMITTALS

A. Comply with Section 01 33 00 - Submittal Procedures.

B. Product Data: Submit manufacturer's product literature for each proposed system.
   1. Cab design, dimensions and layout.
   2. Layout, finishes, and accessories and available options.
   3. Controls, signals and operating system.
   4. Color selection charts for cab and entrances.

C. Shop Drawings:

   1. Clearances and travel of car.
   2. Clear inside hoistway and pit dimensions.
   3. Location and layout of equipment and signals.
   4. Car, guide rails, buffers and other components in hoistway.
   5. Maximum rail bracket spacing.
   6. Maximum loads imposed on building structure.
   7. Hoist beam requirements.
   8. Location and sizes of access doors.
   9. Location and details of hoistway door and frames.

10. Electrical characteristics and connection requirements.

D. Operation and maintenance data:
   1. Provide manufacturer's standard maintenance and operation manual.

E. Diagnostic Tools
   1. Prior to seeking final acceptance for the completed project as specified by the Contract Documents, the Elevator Contractor shall deliver to the Owner any specialized tool(s) that may be required to perform diagnostic evaluations, adjustments, and/or parametric software changes and/or test and inspections on any piece of control or monitoring equipment installed.

      This shall include any specialized tool(s) required for monitoring, inspection and/or maintenance where the means of suspension other than conventional wire ropes are furnished and installed by the Elevator Contractor. Any and all such tool(s) shall become property of the Owner. Any diagnostic tool provided to the Owner by the Elevator Contractor shall be configured to perform all levels of diagnostics, systems adjustment and parametric software changes which are available to the Elevator Contractor.

      In those cases where diagnostic tools provided to the Owner require periodic recalibration/or re-initiation, the Elevator Contractor shall perform such tasks at no additional cost to the Owner for a period equal to the term of the maintenance agreement from the date of final acceptance of the competed project During those intervals in which the Owner might find it necessary to surrender a diagnostic tool for re-calibration, re-initiation, or repair, the Elevator Contractor shall provide a temporary replacement for the tool at no additional cost to the Owner.

      The Elevator Contractor shall deliver to the Owner, printed instructions for the proper use of any tool that may be necessary to perform diagnostic evaluations, system adjustment, and/or parametric software changes on any unit of microprocessor-based elevator control equipment and means of suspension other than standard elevator steel cables furnished and install by the Elevator Contractor. Accompanying the printed instructions shall be any and all access codes, password, or other proprietary information that is necessary to interface with the microprocessor-control equipment.

1.5 QUALITY ASSURANCE

A. Manufacturer: Minimum of fifteen years' experience in the fabrication, installation and service of elevators of the type and performance of the specified. The manufacturer shall have a documented quality assurance program.

B. Installer: The equipment manufacturer shall install the elevator.

C. Inspection and Testing: In accordance with requirements of local jurisdiction, obtain required permits, inspections and tests.

1.6 DELIVERY, STORAGE AND HANDLING

A. If the construction site is not prepared to receive the elevator equipment at the agreed ship date, the General Contractor shall be responsible for the cost of storage at an approved facility. Additional labor costs for double handling will be the responsibility of the General Contractor.

B. Delivered elevator materials shall be stored in a protected environment in accordance with manufacturer recommendations. A minimum storage area of 10 feet by 20 feet is required adjacent to the hoistway.

1.7 WARRANTY

A. Provide manufacturer warranty for a period of one year. The warranty period is to begin upon final acceptance of the Contract. Warranty covers defects in materials and workmanship. Damage due to ordinary use, vandalism, improper or insufficient maintenance, misuse, or neglect do not constitute defective material or workmanship.

1.8 MAINTENANCE SERVICE

A. The elevator manufacturer shall provide maintenance service consisting of regular examinations and adjustments of the elevator equipment for a period of 12 Months after date of final acceptance.

Predictive maintenance shall be included for the full maintenance period. This service must be capable of using AI-based analytics to identify potential equipment issues and notifying the elevator provider via an internet connection.

Replacement parts shall be produced by the original equipment manufacturer.

B. Maintenance service to be performed during regular working hours of regular working days and shall include emergency call back service during regular working hours.

C. Maintenance service shall not include adjustments, repairs or replacement of parts due to negligence, misuse, abuse or accidents.

PART 2: PRODUCTS

2.1 MANUFACTURER

A. Provide AC gearless machine room-less elevator systems subject to compliance with the design and performance requirements of this specification. Elevator manufacturers may include but are not limited to one of the following:
   1. Basis of Design: KONE Machine Room-Less traction elevators by KONE, Inc. (www.kone.com).
   2. Other acceptable machine room-less products: manufacturer with minimum 15 years' experience in manufacturing, installing, and servicing elevators of the type required for the project.

2.2 EQUIPMENT: CONTROL COMPONENTS AND CONTROL SPACE

A. Controller: Provide microcomputer-based control system to perform all functions.

   1. All high voltage (110V or above) contact points inside the controller cabinet shall be protected from accidental contact in a situation where the controller doors are open.
   2. Controller shall be separated into two distinct halves; Motor Drive side and Control side. High voltage motor power conductors shall be routed and physically segregated from the rest of the controller.
   3. Provide a serial cardrack and main CPU board containing a non- erasable EPROM and operating system firmware.
   4. Variable field parameters and adjustments shall be contained in a non- volatile

memory module.

B. Drive: Provide Variable Voltage Variable Frequency AC drive system to develop high starting torque with low starting current.

C. Controller Location: Locate controller{s} in the front wall integrated with the top landing entrance frame, machine side of the elevator. One non-fused three phase permanent power in hoist way at top landing. A separate control space should not be required.

2.3 EQUIPMENT: HOISTWAY COMPONENTS

A. Machine: AC gearless machine, with permanent magnet synchronous motor, direct current electro-mechanical disc brakes and integral traction drive sheave, mounted to the car guide rail at the top of the hoistway

B. Governor: Friction type over-speed governor rated for the duty of the elevator specified.

C. Buffers, Car and Counterweight: Polyurethane buffer.

D. Hoistway Operating Devices:
   1. Emergency stop switch in the pit
   2. Terminal stopping switches.
   3. Emergency stop switch on the machine

E. Positioning System: System consisting of magnets and proximity switches.

F. Guide Rails and Attachments: Steel rails with brackets and fasteners.

2.4 EQUIPMENT: HOISTWAY ENTRANCES

A. Hoistway Entrances
   1. Sills: Extruded Aluminum.
   2. Doors: Hollow metal construction with vertical internal channel reinforcements.
   3. Fire Rating: Entrance and doors shall be UL fire-rated for 1-1/2 hour.
   4. Entrance Finish: Brushed Stainless Steel.
   5. Entrance Markings Jamb Plates: Provide standard entrance jamb tactile markings on both jambs, at all floors. Plate Mounting: Refer to manufacturer drawings.

2.5 EQUIPMENT: CAR COMPONENTS

A. Car Frame: Provide car frame with adequate bracing to support the platform and car enclosure.

B. Car Safeties: Device will be provided and mounted under the car platform, securely bolted to the Car Frame. The safety will be actuated by a centrifugal governor mounted at the top of the hoistway. The Safety is designed to operate in case the car attains excessive descending speed.

C. Platform: Platform shall be all steel construction.

D. Car Guides: Provide guide-shoes mounted to top and bottom of both car and

counterweight frame. Each guide-shoe assembly shall be arranged to maintain constant contact on the rail surfaces. Provide retainers in areas with Seismic design requirements.

E. Cab Finish: Industrial Chic - 42005

F. Car Wall Finish:
1. Side Walls: Asturias Satin (F) Brushed Stainless Steel
2. Rear Wall: Flemish Linen (TS1) Textured Stainless Steel
3. Car front, Door and Skirting: Asturias Satin (F) Stainless Steel
4. Ceiling: CL88 Asturias Satin (F) Brushed Stainless Steel
5. Handrails: HR61 Asturias Satin (F) Brushed Stainless Steel
   a. Rails to be located on Back Wall of car enclosure.
6. Sills: Aluminum extruded.

G. Flooring: By others. (Not to exceed 6lb/sqft and 1/2" finished depth.)

H. Emergency Car Signals
1. Emergency Siren: Siren mounted on top of cab that is activated when the alarm button in the car operating panel is engaged. Siren shall have rated sound pressure level of 80 dB(A) at a distance of three feet from device. Siren shall respond with a delay of not more than one second after activation of alarm button.
2. Emergency Car Lighting: Provide emergency power unit employing a 12- volt sealed rechargeable battery and totally static circuits shall illuminate the elevator car and provide current to the alarm bell in the event of building power failure.
3. Emergency Exit Contact: An electrical contact shall be provided on the car-top exit.

I. Ventilation: Manufacturer’s standard cab fan

2.6 EQUIPMENT: SIGNAL DEVICES AND FIXTURES

A. Car Operating Panel: Provide car operating panel with all push buttons, key switches, and message indicators for elevator operation. Fixture finish to be Brushed Stainless Steel
1. Main Flush mounted car operating panel shall contain a bank of round, mechanical, illuminated buttons marked to correspond to landings served, emergency call button, door open button, door close button, and key switches for lights, inspection, and exhaust fan. Buttons have Amber Dot Matrix illumination (halo). All buttons to have raised text and Braille marking on left hand side. The car operating display panel shall be Amber Dot Matrix. All texts, when illuminated, shall be Amber Dot Matrix. The car operating panel shall have a Brushed Stainless Steel finish.
2. Additional features of car operating panel shall include:
   a. Car Position Indicator within operating panel Brushed Stainless Steel
   b. Elevator Data Plate marked with elevator capacity and car number on car top.
   c. Help buttons with raised markings.
   d. In car stop switch per local code.
   e. Call Cancel Button.

B. Hall Fixtures: Wall mounted hall fixtures shall be provided with necessary push buttons and key switches for elevator operation. Wall mounted hall fixtures shall have a Brushed Stainless Steel finish.

1. Hall fixtures shall feature round, mechanical, buttons in applied mount face frame. Hall fixtures shall correspond to options available from that landing. Buttons shall be in a vertically mounted fixture.

C. Car Lantern and Chime: A directional lantern visible from the corridor shall be provided in the car entrance. When the car stops and the doors are opening, the lantern shall indicate the direction in which the car is to travel, and a chime will sound. The chime will sound once for up and twice for down. The car riding lantern face plate shall have a Brushed Stainless Steel finish.

2.7 EQUIPMENT: ELEVATOR OPERATION AND CONTROLLER

A. Elevator Operation
1. Simplex Collective Operation: Using a microprocessor-based controller, operation shall be automatic by means of the car and hall buttons. If all calls in the system have been answered, the car shall park at the last landing served.
2. Zoned Car Parking.
3. Relative System Response Dispatching.

B. Standard Operating Features to include:
1. Full Collective Operation
2. Fan and Light Control.
3. Load Weighing Bypass.
4. Ascending Car Uncontrolled Movement Protection
5. Top of Car Inspection Station.

C. Additional Operating Features to include:

D. Elevator Control System for Inspections and Emergency
1. Provide devices within controller to run the elevator in inspection operation.
2. Provide devices on car top to run the elevator in inspection operation.
3. Provide within controller an emergency stop switch to disconnect power from the brake and prevents motor from running.
4. Provide the means from the controller to mechanically lift and control the elevator brake to safely bring car to nearest available landing when power is interrupted.
5. Provide the means from the controller to reset the governor over speed switch and also trip the governor.
6. Provide the means from the controller to reset the emergency brake when set because of an unintended car movement or ascending car over speed.
7. Provide the means for the control to reset elevator earthquake operation.

2.8 EQUIPMENT: DOOR OPERATOR AND CONTROL

A. Door Operator: A closed loop permanent magnet VVVF high-performance door operator shall be provided to open and close the car and hoistway doors simultaneously. Door movement shall be cushioned at both limits of travel. Electro-mechanical interlock shall be provided at each hoistway entrance to prevent operation of the elevator unless all doors are closed and locked. An electric contact shall be provided on the car at each car entrance to prevent the operation of the elevator unless the car door is closed.

B. The door operator shall be arranged so that, in case of interruption or failure of electric

power, the doors can be readily opened by hand from within the car, in accordance with applicable code. Emergency devices and keys for opening doors from the landing shall be provided as required by local code.

C. Doors shall open automatically when the car has arrived at or is leveling at the respective landings. Doors shall close after a predetermined time interval or immediately upon pressing of a car button. A door open button shall be provided in the car. Momentary pressing of this button shall reopen the doors and reset the time interval.

D. Door hangers and tracks shall be provided for each car and hoistway door. Tracks shall be contoured to match the hanger sheaves. The hangers shall be designed for power operation with provisions for vertical and lateral adjustment. Hanger sheaves shall have polyurethane tires and pre-lubricated sealed-for-life bearings.

E. Electronic Door Safety Device. The elevator car shall be equipped with an electronic protective device extending the full height of the car. When activated, this sensor shall prevent the doors from closing or cause them to stop and reopen if they are in the process of closing. The doors shall remain open as long as the flow of traffic continues and shall close shortly after the last person passes through the door opening.

PART 3: EXECUTION

3.1 EXAMINATION

A. Field measure and examine substrates, supports, and other conditions under which elevator work is to be performed.

B. Do not proceed with work until unsatisfactory conditions are corrected.

C. Prior to start of work, verify hoistway is in accordance with shop drawings. Dimensional tolerance of hoistway from shop drawings: -0 inches +2 inches. Do not begin work of this section until dimensions are within tolerances.

D. Prior to start of work, verify projections greater than two inches (four inches if ASME A17.1/CSA B44 2000 applies) must be beveled not less than 75 degrees from horizontal.

E. Prior to start of work, verify landings have been prepared for entrance sill installation. Traditional sill angle or concrete sill support shall not be required.

F. Prior to start of work, verify elevator pit has been constructed in accordance with requirements, is dry and reinforced to sustain vertical forces, as indicated in approved submittal. Verify that sumps or sump pumps located within pit will not interfere with installed elevator equipment.

G. Prior to start of work, verify control space has been constructed in accordance with requirements, with access coordinated with elevator shop drawings, including sleeves and penetrations.

H. Verify installation of GFCI protected 20-amp in pit and adjacent to each signal control cabinet in control space.

3.2 PREPARATION

A. Coordinate installation of anchors, bearing plates, brackets and other related

accessories.

3.3 INSTALLATION

A. Install equipment, guides, controls, car and accessories in accordance with manufacturer installation methods and recommended practices.

B. Properly locate guide rails and related supports at locations in accordance with manufacturer's recommendations and approved shop drawings. Anchor to building structure using isolation system to minimize transmission of vibration to structure.

C. All hoistway frames shall be securely fastened to fixing angles mounted in the hoistway. Coordinate installation of sills and frames with other trades.

D. Lubricate operating system components in accordance with manufacturer recommendations.

E. Perform final adjustments, and necessary service prior to final acceptance.

3.4 CONSTRUCTION

A. Interface with Other Work:
   1. Guide rail brackets attached to steel shall be installed prior to application of fireproofing.
   2. Coordinate construction of entrance walls with installation of door frames and sills. Maintain front wall opening until elevator equipment has been installed.
   3. Ensure adequate support for entrance attachment points at all landings.
   4. Coordinate wall openings for hall push buttons, signal fixtures and sleeves. Each elevator requires sleeves within the hoistway wall.
   5. Coordinate emergency power transfer switch and power change pending signals as required for termination at the primary elevator signal control cabinet in each group.
   6. Coordinate interface of elevators and fire alarm system.
   7. Coordinate interface of dedicated telephone line.

3.5 TESTING AND INSPECTIONS

A. Perform recommended and required testing in accordance with authority having jurisdiction

B. Obtain required permits and provide originals to Owner's Representative.

3.6 DEMONSTRATION

A. Prior to final acceptance, instruct Owner's Representative on the proper function and required daily maintenance of elevators. Instruct personnel on emergency procedures.

END OF SECTION

14 21 00

SECTION 26 00 00 GENERAL ELECTRICAL REQUIREMENTS

PART 1 - GENERAL

1.1 SCOPE

A. Work of this section includes everything necessary for or incidental to completing the electrical work, to provide a complete and operable electrical system, except as herein specifically excluded.

1.2 GENERAL REQUIREMENTS

A. Electrical System Characteristics: 120/208V. 3PH, 4W.

B. Guarantee: Furnish a written guarantee for a period of one-year from date of acceptance.

C. Codes and Regulations: Work done under this Section shall comply with the latest edition of the following: California Electrical Code, State of California Title 24, State Building Standards, Occupational Safety and Health Administration (OSHA) requirements, State of California Title 17 and to all local codes having jurisdiction. In the case where the codes have different levels of requirements, the most stringent rule shall apply.

D. Wherever a discrepancy in quantity or size of conduit, wire, equipment, devices, circuit breakers, etc., (all materials), arises on the Drawing and/or Specifications, the Contractor shall be responsible for providing and installing all material and services required by the strictest condition noted on Drawings and/or in Specifications to insure complete and operable systems as required by the Owner and Engineer.

E. The General and Supplementary Conditions, as well as Special Conditions apply in addition to items in the Electrical Section. Special attention is directed to the following sections:

1. Drawings and Specifications at the site.

2. Shop drawings and samples.

3. Record drawings.

4. Cutting and Patching.

5. Cleaning up.

6. Guarantee.

7. Tests.

F. Additional Work: Refer to Mechanical, Plumbing and Alerting System Contractor drawings and specifications for additional Electrical requirements.

G. Testing:

1. Scan:
   a. Infrascan test of the power distribution branch circuit panels shall be required.
   b. Infrascan certified reports shall be submitted on completion to the Owner and Engineer.
   c. Scans shall be performed by an independent testing laboratory with total connected loads in operation.

2. Megger:
   a. New branch circuit - phase, neutral and ground conductors.
   b. New insulated bonding conductors.

3. All circuits shall be tested for continuity and circuit integrity. Adjustments shall be made for circuits not complying with testing criteria.

4. Grounding System: Shall be tested by an independent testing laboratory to meet resistance specified in Part 3.1, D.3 of these Specifications. It shall be this Contractor's responsibility to make adjustments, as required, to upgrade non-complying systems to proper and safe operation.

5. All certified testing reports shall be submitted to the Owner at completion of project.

H. All Core Cutting, Drilling, and Patching:

1. For the installation of work under this Section, the aforementioned shall be performed under this Section of the Specifications and the Concrete section of the Specifications.

2. No holes will be allowed in any structural members without the written approval of the Structural Engineer.

3. For penetrations of concrete slabs or concrete footings, the work will be as directed in the Concrete Section of Specifications.

4. The contractor shall be responsible for patching and repairing surfaces where he is required to penetrate for work under this contract.

5. Penetrations shall be sealed to meet the rated integrity of the surface required to be patched and repaired. The patched surface shall be painted or finished to match the existing surface.

I. Verifying Drawings and Job Conditions:

1. This Contractor shall examine all Drawings and Specifications in a manner to be fully cognizant of all work required under this Section.

2. This Contractor shall visit the site and verify existing conditions. Where existing conditions differ from Drawings, adjustment shall be made and allowances included for all necessary equipment to complete all parts of the Drawings and Specifications.

J. Shop Drawings/Product Submittals:

1. Drawings shall be submitted in six (6) bound sets accompanied by Letter of Transmittal, which shall give a list of the number and dates of the drawings submitted. Drawings shall be complete in every respect and bound in sets.

2. The Drawings submitted shall be marked with the name of the project, numbered consecutively and bear the approval of the Contractor as evidence that the Drawings have been checked by the Contractor. Any Drawings submitted without this approval will be returned to the Contractor for resubmission.

3. If the shop drawings show variations from the requirements of the Contract because of standard shop practice or other reasons, the Contractor shall make specific mention of such variations in his letter of transmittal. If the substitution is accepted, the Contractor shall be responsible for proper adjustment which may be caused by the substitution. Complete working samples shall be submitted with all requests for substitution.

4. Shop drawings/product data shall be submitted on the following but not limited to:

    a. Lighting fixtures and drivers.

    b. Fire alarm system.

    c. Switches/Occupant sensors/Disconnect switches.

    d. Automatic Lighting control system.

    e. Receptacles.

    f. Low Voltage / Communication system.

    g. Low Voltage / Signal and alarm systems.

    h. Audio Visual system.

    i. Fuses.

    j. Pull boxes.

    k. Emergency generator and transfer switch.

    l. Terminal Cabinets.

    m. Conduit and fittings.

    n. Wire/Conductors/Cables.

    o. Conduit/Cable Tray supports.

    p. Cable Tray and fittings.

    q. Outlet boxes/Flush floor boxes.

5. Shop drawings shall include scaled site plans and floor plans indicating the location of all equipment, devices, interconnecting wire/cable, wiring diagrams, rack/enclosure elevations indicating the location of all rack mounted equipment, and sequence of operation.

6. Shop drawings shall include copies of the contractor's current C-10 license. For low voltage systems the submittal shall include copies of the contractor's current C-7 license, and copies of certificates identifying the low voltage contractor as a licensed distributor/installer of the equipment included in the submittal.

7. Refer to Division 27 and 28 for additional requirements.

K. Drawings of Record: The Contractor shall provide and keep up-to-date, a complete record set of blueprints. These shall be corrected daily and show every change from the original Drawings. This set of prints shall be kept on the job site and shall be used only as a record set. This shall not be construed as authorization for the Contractor to make changes in the layout without definite instruction in each case. Upon completion of the work, a set of reproducible Contract Drawings shall be obtained from the General Contractor and all changes as noted on the record set of prints shall be incorporated thereon with black ink in a neat, legible, understandable and professional manner. Refer to the Supplementary General Conditions for complete requirements.

1.3 WORK IN COOPERATION WITH OTHER TRADES

A. Examine the Drawings and Specifications and determine the work to be performed by the site utilities contractor, mechanical and plumbing contractor, solar PV contractor, Alerting system contractor, and other trades. Provide the type and amount of electrical materials and equipment necessary to place this work in proper operation, completely wired, tested and ready for use. This shall include all conduit, wire, disconnects, relays, and other devices for the required operation of all systems or equipment whether shown on plan or not.

B. Provide power and control circuits, conduit and wire as indicated on the Mechanical, Plumbing, solar PV, and Alerting system drawings as required for complete and operable systems.

C. The electrical contractor shall be responsible for providing and installing specialty back-boxes for all communication/signal systems. The electrical contractor shall patch, repair and refinish walls, ceilings or floors disturbed by the installation of the subject back boxes.

1.4 TESTING AND ADJUSTMENT

A. Upon completion of all electrical work, this Contractor shall test all circuits, switches, motors, breakers, motor starter(s) and their auxiliary circuits and any other electrical items to insure perfect operation of all electrical equipment.

B. Equipment and parts in need of correction and discovered during such testing shall be immediately repaired or replaced with all new equipment and that part of the system shall then be retested. All such replacement or repair shall be done at no additional cost to the Owner.

C. All circuit shall be tested for continuity and circuit integrity. Adjustments shall be made for circuits not complying with testing criteria.

D. All certified testing reports shall be submitted to the Engineer at completion of project.

1.5 IDENTIFICATION

A. Identification nameplates shall be Micarta 1/8" thick and of approved size, with bevelled edges and engraved white letters 1/4" high minimum on black background. Nameplates shall be provided for all circuits in the distribution switchboards, and selector switches. Inscriptions on equipment shall be identical to those indicated in panels and/or motor control centers and other similar devices. Each nameplate shall be provided with drillings and suitable mounting screws corresponding to finish of the nameplate. The inscriptions in each nameplate shall be as indicated on the Drawings.

B. Identification of Air Conditioning Equipment: Equipment to be so identified shall include, but shall not be limited to: Pressure and temperature controllers; switches; equipment motors and boxes or cans housing other control items. Mechanical equipment nameplates shall have letters a minimum of 3/8" high.

C. Identification of Signal/Communication Outlet Wall Plates: Outlet wall plates shall be engraved on the backside with its related signal/communication system and its serving conduit origin point.

D. Refer to Section 260573 for short circuit and arc flash labeling requirements.

1.6 MAINTENANCE, SERVICING, INSTRUCTION MANUALS AND WIRING DIAGRAMS

A. Prior to final acceptance of the job, the Electrical Contractor shall furnish to the Owner at least four (4) copies of operating and maintenance and servicing instructions, as well as four (4) complete wiring diagrams for the following item(s) or equipment:

1. Communications system.
2. Signal/alarm system.
3. Audio-Video (A/V) system.
4. Fire alarm system.
5. Panelboards.
6. Switchboards.
7. Circuit breakers.
8. Disconnect switches.
9. Emergency generator and transfer switch.
10. LED drivers.
11. Lighting controls.
12. Occupant sensors, power packs, relay packs.

B. All wiring diagrams shall specifically cover the system supplied. Typical drawings will not be accepted. Two (2) copies shall be presented to the Electrical Engineer and four (4) copies to the Owner.

1.7 ELECTRICAL CONTRACTOR'S RESPONSIBILITY

A. It shall be the Electrical Contractor's responsibility to obtain a complete set of Drawings and Specifications. He shall check the Drawings of the other trades and shall carefully read the entire Specifications and determine his responsibilities.

B. Contractor shall carry a valid State of California contractor’s license.

1.8 FINAL INSPECTION AND ACCEPTANCE

A. After all requirements of the Specifications and/or the Drawings have been fully completed, representatives of the Owner will inspect the work. Contractor shall provide competent personnel to demonstrate the operation of any item or system to the full satisfaction of each representative.

B. Final acceptance of the work will be made by the Owner after receipt of approval and recommendation of acceptance from each representative.

1.9 RECORD DRAWINGS

A. Contractor shall furnish one set of reproducible record drawings before final payment of retention.

1.10 SUBSTITUTIONS

A. Substitution to specified equipment shall be submitted and received by the Engineer fifteen (15) days after the bid date for review and approval.

B. To receive consideration, requests for substitutions must be accompanied by documentary proof of its equality with the specified material. Documentary proof shall be in letter form and identify the specified values/materials alongside proposed equal values/materials. In addition, catalog brochures and samples must be included in the submittal.

C. In the event that authorization is given for a substitute equal to bid, after award of contract the Contractor shall submit to the Engineer certified quotations from suppliers of both the specified and proposed equal material for price comparison and delivery dates.

D. In the event of cost reduction, the Owner will be credited with 100 percent of the reduction, arranged by Change Order.

E. The Contractor warrants that substitutions proposed for specified items will fully perform the functions required.

F. Substitutions or requests for substitution shall not be accepted and rejected for failure to comply with items A-E above.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Materials and Equipment: All electrical materials and equipment shall be new and shall be listed by Underwriter's Laboratories and bear their label, or listed and certified by a nationally recognized testing authority where UL does not have an approval. Custom made equipment must have complete test data submitted by the manufacturer attesting to its safety. In addition, the materials and equipment shall comply with the requirements of the following:

1. American Society of Testing Materials (ASTM).

2. Insulated Cable Engineers Association (ICEA).

3. National Electrical Manufacturer's Association (NEMA).

4. National Fire Protection Association (NFPA).

5. American National Standard Institute (ANSI).

B. Lighting Fixtures:

1. Furnish, install and connect a lighting fixture at each outlet where a lighting fixture type symbol (designated on plans) is shown as being installed. Each fixture shall be complete with all required accessories including sockets, glassware, boxes, spacers, mounting devices, fire rating enclosure, chips and drivers.

2. LED Driver shall be Class 1, 120-277V, 50/60HZ (constant current) with surge protection in accordance with IEEE/ANSI C62.41.2 guidelines with a surge current rating of 10,000 amps. Operating temperature for interior fixtures shall range from 0°C to 35°C (32°F to 95°F). Operating temperature for exterior fixtures shall range from -40°C to 40°C (-40°F to 104°F). All defective drivers shall be replaced at no cost to the Owner.

3. LED chips shall be as manufactured by CREE, Philips-Lumileds, Nichia, Osram or approved equal.

4. Interior fixtures installed in individual rooms shall be provided with LED chips of the same manufacturer. Mixing of chip manufacturers will not be allowed. All fixtures in any one room must be replaced with new fixtures when the fixtures in the room display dissimilar illumination colors.

5. Exterior fixtures shall be provided with LED chips of the same manufacturer. Mixing of chip manufacturers will not be allowed. All fixtures within line of sight must be replaced with new fixtures when the fixtures in the line of sight display dissimilar illumination colors.

6. LED chips shall have 4000º Kelvin color temperature. Interior fixtures shall meet IESNA LM-79-08. Exterior fixtures shall meet IESNA LM-80-08.

7. Where indicated on the Lighting Fixture Schedule, interior light fixtures shall be provided with integral occupancy sensor and/or daylight sensor. Provide two (2) programming/configuration tools for programming the integral control devices.

8. Refer to Architectural reflected ceiling plan for type of ceiling being installed in each room and provide each fixture with required mounting devices and accessories for the particular ceiling.

9. All light fixtures shall be individually supported and properly anchored to the surfaces indicated on the Architectural elevations.

10. Locations of fixtures shall be per the architectural reflected ceiling plan and shall be coordinated at time of rough-in.

11. All exterior mounted light fixtures shall comply with current city or local lighting ordinance.

12. LED drivers for interior light fixtures shall provide full range dimming. Refer to the Lighting Fixture Schedule for the type of fixture being provided and provide a fully compatible dimming driver.

C. Conduit:

1. Rigid conduit shall be full weight threaded type aluminum or steel, except where specifically required to be steel. Steel conduit shall be protected by overall zinc coating to inside and outside surfaces, applied by the hot dip, metallizing or sherardizing process.

2. Galvanized Rigid Conduit (GRC), shall be full weight threaded type aluminum or steel, except where specifically required to be steel. Steel conduit shall be protected by overall zinc coating to inside and outside surfaces, applied by the hot dip, metallizing, or sherardizing process.

3. Intermediate Metal Conduit (IMC), shall be hot-dipped galvanized in accordance with UL 1242 and meeting Federal Specification WWC-581 (latest revision).

4. Electrical Metallic Tubing (EMT), shall be zinc-coated steel with baked enamel or plastic finish on inside surfaces.

5. Flexible metal conduit shall be constructed of aluminum or hot-dipped galvanized steel strips wound spirally with interlocking edges to provide greatest flexibility with maximum strength. Interior surfaces shall be smooth and offer minimum drag to pulling in conductors. Used only as directed by the Engineer.

6. Liquid-tight conduit (Seal-Tite) shall be galvanized steel flexible conduit as above except with moisture and oil-proof jacket, pre-cut lengths and factory installed fittings. For outdoor installations and motor connection.

7. Non-Metallic Conduit:
   a. Polyvinyl chloride (PVC) rigid conduit, Schedule 40, Type II for underground installation only.
   b. Conduit and fitting shall be produced by the same manufacturer.

8. Electrical non-metallic tubing (ENT) is not permitted.

D. Fittings:

1. Conduit bodies shall be smooth inside and out, taper threaded with integral insulating bushing and of the shapes, sizes and types required to facilitate installation or removal of wires and cables from the conduit and tubing system. These fittings shall be of metal, smooth inside and out, thoroughly galvanized, and sherardized cadmium plated.

2. Metallic conduit bodies covers shall have the same finish as the fitting and shall be provided for the opening of each fitting where conductor do not pass through the cover.

3. Connector, coupling, locknut, bushings and caps used with rigid conduit shall be steel, threaded and thoroughly galvanized. Bushings shall be insulated.

4. EMT fittings, connectors and couplings, shall be steel, zinc or cadmium plated, raintight, threadless, compression or tap-on multiple point, steel locking ring type with insulated throat.

5. Flexible steel conduit connectors shall be malleable iron clamp or squeeze type or steel twist-in type with insulated throat. The finish shall be zinc or cadmium plating.

6. Die cast, set screw or indenter type fittings are not acceptable.

7. Conduit unions shall be "Erickson" couplings, or approved equal. The use of running threads will not be permitted.

E. 600 Volt Conductors - Wire and Cable:

1. All conductors shall be stranded copper. Simpull type or equal.

2. Type THHN/THWN thermoplastic, 600 volt, UL approved, dry and wet locations, for conductor sizes up to and including #4 AWG.

3. Type XHHW cross-linked synthetic polymer, 600 volt, UL approved, for dry and wet locations, for conductor sizes #2 AWG. and above.

4. Cross-linked synthetic polymer, XHHW, 600 volts, UL approved, for installation underground, in concrete or masonry.

5. Wire and cable shall be new, manufactured not more than six (6) months prior to installation, shall have size, type of insulation, voltage rating and manufacturer's name permanently marked on outer covering at regular intervals.

6. Wire and cable shall be factory color coded by integral pigmentation with a separate color for each phase and neutral. Each system shall be color coded and it shall be maintained throughout.

7. Systems Conductor Color Coding:

   a. Power 208/120V, 3PH, 4W:

      (1) Phase A = Black
      (2) Phase B = Red
      (3) Phase C = Blue
      (4) Neutral = White

   b Ground Conductors:

      (1) Green

   c Communication/Signal/Fire Alarm System:

      (1) As recommended by the manufacturer.

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8. ~~Multi-Conductor metal clad (MC) cable shall be U.L. listed for the type of room, ceiling and/or wall it is being installed in and shall be provided with a ground wire sized per Article 250 of the CEC. MC cable is not permitted for exterior use~~.

9. For lighting circuits MC Luminary cable with integral 0-10V. control conductors shall be used.

10. Non-metallic sheathed cable (Romex) is not permitted.

11. All color coding for #4 conductor and above shall be as identified above, utilizing phase tape at each termination.

12. No conductors carrying 120 volt or more shall be smaller than #12 AWG.

F. Outlet Boxes:

1. For fixtures, boxes shall be galvanized, steel, knockout type equipped with 3/8" fixture studs and plaster rings where required.

2. Unless otherwise noted on plan or specified herein, outlet boxes shall be 4” square x 2 1/8” deep, steel, knockout type, mounted flush with wall. Provide with plaster rings and wall plate.

3. For data and combination telephone/data system outlets, outlet boxes shall be 4 11/16” square x 2 1/8” deep, steel, knockout type, mounted flush with wall. Provided with plaster rings and leave outlet box ready for installation of Owner furnished wall plate.

4. For audio-visual (A/V) system, outlet boxes shall be 5” square, steel, without knockouts, mounted flush with wall. Provide with custom plaster rings and leave outlet box ready for installation of A/V contractor furnished wall plate.

5. For all other communication/signal system devices, outlet boxes shall be as recommended by the system manufacturer and provided complete with plaster rings and covers.

6. For locations where standard boxes are not suitable due to number and size of conduit to be terminated, special boxes shall be designed to fit space or meet other requirements and submitted for approval.

7. For surface mounting or exposure to wet or damp locations, outlet boxes shall be heavy cast aluminum or cast iron with threaded hubs; covers shall be watertight with gaskets and non-

ferrous screws.

8. Floor boxes for on-grade applications shall be cast iron, fully adjustable type. Provide floor boxes with flange and brass covers suitable for the outlets/connectors specified on plan and in the project manual. Boxes shall be suitable for terminating the conduit specified on plan. Wiremold Omnibox series or approved equal to accommodate 1" conduit and smaller. Wiremold Resource RFB series or approved equal to accommodate conduits larger than 1".

G. Switches:

1. Standard single pole switches shall be flush tumbler, A.C. rated, quiet type, heavy duty back or side wired with binding screws, standard rocker Hubbell #1221, 20A, 120/277V, or approved equal, color as elected by Architect. Two pole three-way and other switches shall be similar. Refer to Device Plate Section of Specifications for other requirements. Switches that are part of an automatic lighting control system shall be provided with integral, factory installed, connectors to accept the system control wiring, shall be manufactured by the automatic lighting control system manufacturer, and shall be fully compatible with the lighting control system.

2. Switches located outdoors or in damp or wet locations shall be the same as above provided with steel locking weatherproof lift cover.

3. Switches controlling or disconnecting single phase motor loads in excess of 1/3HP shall be horsepower rated and approved or motor control service. Switches shall be complete with overload device of proper motor nameplate rating, where required.

4. Disconnect (safety) switches shall be fused, heavy duty type meeting NEMA Specifications. Switches shall be provided with rejection type fuse blocks. Provide switches with the number of poles, the voltage, current and horsepower ratings as required. Provide externally operable, quickmake, quick-break type mechanism with cover interlock and padlockable in either the open or closed position. Unless indicated otherwise, provide switches indoors in NEMA Type 1 enclosure and in NEMA Type 3R enclosure where indicated to be outdoors or weatherproof. Provide nameplate indicating equipment served. Provide unit as manufactured by Eaton or approved equal to match the main switchboard manufacturer.

5. Occupant sensors shall be low voltage, dual technology type, suitable for ceiling or wall mounting. Stand-alone ceiling mounted sensors shall be provided complete with relay/power pack and slave-packs to perform the switching indicated on plan. Sensors that are part of an automatic lighting control system shall be provided with integral, factory installed, connectors to accept the system control wiring. Sensors shall provide minimum 1,000 square foot coverage and provide complete coverage of the areas indicated on plan. Stand-alone sensors shall be as manufactured by Sensor Switch, Watt Stopper or Leviton. System sensors shall be as manufactured by the automatic lighting control system manufacturer and shall be fully compatible with the lighting control system.

6. Occupant sensors located in hallways/corridors shall be programmed to automatically dim the lights to 50% when the space is unoccupied. Hallway/corridor sensors shall capable of detecting motion within a 130'-0" area. Stand-alone sensors shall be provided complete with relay/power pack and slave-packs.

7. Wall mounted, switch type, combination sensor and dimmer shall be dual technology type with single or dual circuit to provide the control indicated on plan. Sensors shall provide minimum 900 square feet major motion and 400 square feet minor motion coverage. Sensor shall have a multi-function tap switch with small, raised rocker, for dimmer adjustment. Sensors shall be as manufactured by Sensor Switch or approved equal Lutron, WattStopper or Leviton. Custom color as selected by the Architect. The contractor shall ensure the

dimmers are fully compatible with the LED drivers being controlled.

8. All switches, dimmers and sensors shall be listed and certified by the California Energy Commission.

H. Automatic Lighting Controls:

1. Provide a complete and fully operable wired control system as manufactured by Acuity nLight or approved equal Lutron or Wattstopper. For proposed alternate equipment to be considered the shop drawings must include a completely re-wired copy of the City approved lighting plan indicating the wiring, controls and connections to light fixtures required for the operation of the alternate system. The wiring and components from the specified system must be completely removed from the submitted shop drawings.

2. The wired control system shall be capable of receiving a demand response signal.

3. The lighting control system shall be provided complete with all required controllers, bridges, gateways, power supplies, occupant sensors, daylight sensors, dimmers/switches, power packs, wiring, and ancillary equipment/devices required for a fully operable system.

4. Automatic lighting control system dimmers/switches connected to emergency circuits shall be provided with wall plates with “red” engraved letters identifying the circuit being controlled.

5. The lighting control system shall be commissioned by the system’s manufacturer’s representative and programmed as required by the Owner.

6. Provide a minimum of four hours of training for personnel selected by the Owner. Training shall include a follow-up training session to be scheduled three (3) months after the initial training session is completed. All training shall be conducted at the Owner’s facility.

I. Receptacles:

1. Convenience outlet shall consist of duplex convenience receptacle mounted in an outlet box in the wall, flush with the finish surface and shall be complete with a mud ring and wall plate.

2. Receptacles for convenience outlets, unless otherwise indicated, shall be industrial heavy duty type, duplex 3W grounding type, 20A, 125V, Hubbell-Bryant #5362-*. (*) color as selected by Architect.

3. Receptacles in Dorm rooms, Captain’s Office, App Bay printer alcoves, and Dayroom shall be combination duplex, USB A and USB C charger/tamper resistant receptacle, 20A, 125V, Hubbell #USB20AC5*WR or approved equal. * = color as selected by Architect. Provide minimum one (1) USB receptacle at the workstation in offices and minimum of one (1) USB receptacle at each reclining chair in the Dayroom.

4. Receptacles in all other residential occupancies shall be industrial heavy duty type, tamper proof, 20A, 125V, Hubbell-Bryant #HBL5362*TR or approved equal, color as selected by Architect.

5. GFI receptacles shall be Hubell-Bryant #GFSG5362*, color as selected by the Architect. Contractor shall refer to the Code Analysis drawing in the Architectural contract documents for residential occupancies

6. Weatherproof receptacle shall be industrial heavy duty type, ground fault interrupter (GFI), 20 ampere, three wire grounding type, 120 volt, with steel lockable lift cover U.L. listed for “wet” locations when in operation.

7. Receptacles located within 6’-0” of a sink or in a wet location shall be GFI type.

8. Controlled receptacles for use in offices, conference rooms, lobbies, break rooms, and where indicated on plan, shall be factory engraved as “controlled”. Hubbell #HBL5362LC1* series. Color as selected by the Architect.

9. Where a controlled receptacle is shown as part of a double duplex/quad assembly, the contractor shall provide one (1) industrial heavy duty duplex receptacle and one (1) fully controlled duplex receptacle Hubbell #HBL5362LC* series. Color as selected by the Architect.

10. Receptacles located outdoors shall be provided with steel weatherproof box and steel lockable lift cover U.L. listed for “wet” locations when in operation.

11. Receptacles in indoor damp locations shall be 20A, 125V, Hubbell-Bryant #HBL5362WR or approved equal, color as selected by Architect. Provide with steel locking lift cover, Hubbell-Bryant #96067 or approved equal.

12. Specialty receptacles, identified on plans, for use with Owner furnished equipment shall be provided complete with outlet box, wall plate and receptacle to match the configuration of the plug being provided with the subject equipment. Actual receptacle configuration shall be determined at time of rough-in.

J. Device Plates:

1. Shall be smooth thermoplastic wall plates, for the number of gang and types of openings necessary. Color shall be as selected by the Architect.

2. Plates shall be fitted, when specified for more than two gangs.

3. All switch and receptacle plates shall be engraved with related serving panel and circuit number identification on the front.

4. Plates for interior damp or wet areas, including kitchen/break rooms, shall be stainless steel, weatherproof, complete with neoprene gaskets.

5. Covers for exterior mounted receptacles shall be metallic, U.L. listed for wet locations when “in-use”.

K. Junction and Pullboxes:

1. For interior dry locations, boxes shall be galvanized one-piece drawn steel, knockout type, with removable, machine screw secured covers.

2. Minimum depth for 4” and 5” junction/pull boxes shall be 2 1/8”.

3. Minimum depth for junction/pull boxes larger than 5” shall be 4”.

4. All boxes shall be sized for the number and sizes of conductors and conduits entering the box and equipped with plaster rings where required. Each conductor shall be terminated at an insulated, barriered terminal connector and completely identified with an engraved fiber identification marker, Electrovert or Underwriter's Safety Device Company.

L. Terminal Cabinets:

1. Terminal cabinets shall be fabricated of hot dipped galvanized code gauge sheet metal for flush or surface mounting, as indicated on plan. Unless specifically noted on plans otherwise, terminal cabinets shall be no smaller than 24” high, 30” wide and 6” deep. Doors shall be hinged and lockable. Locks shall be keyed to match the branch circuit panelboards. Terminal cabinet trims shall match the branch circuit panels.

2. Provide each terminal cabinet with a full size plywood backboard and terminal blocks (minimum 25% or 12 spare terminal blocks). All wires terminating on the terminal blocks shall be identified with an engraved fiber tag.

3. Surface mounted terminal cabinets shall be installed complete with full length skirts of the same construction and finish as the terminal cabinet.

4. Where mounted outdoors, terminal cabinets shall be NEMA 3R, weatherproof complete with gaskets and required sealant to prevent moisture from entering the terminal cabinet.

M. Plywood Backboards:

1. Where indicated for telephone or communications system terminals or other equipment assemblies, provide backboards to cover the entire wall it is attached to (full wall height and width).

2. Use Douglas Fir Plywood, exterior grade, finished one side and painted on all surfaces with intumescent gray paint. Unless otherwise indicated, use 3/4" thick plywood.

3. Where terminal cabinets are used, provide full size plywood backboard to mount inside the terminal cabinet.

N. Painting:

1. Terminal cabinets, panels, junction boxes, pull boxes, etc., and conduit installed outdoors and in public view shall be painted with colors selected by the Architect to match the subject exterior surface. Refer to painting section of the specifications for additional requirements.

O. Seismic Design and Anchoring of Electrical Equipment:

1. Seismic anchorage of electrical equipment shall conform to C.C.R. Title 24, 2025 CBC. Anchorage details for roof/floor mounted equipment shall be as shown on plans.

PART 3 - EXECUTION

3.1 PREPARATION AND INSTALLATION

A. Installation of Conduit and Outlet Boxes:

1. All conduit installed in concrete and masonry shall be galvanized rigid steel conduit (GRC), or intermediate metal conduit (IMC).

2. Rigid conduit may be installed under floor slabs, under concrete sidewalls and as noted on the Drawings. Rigid conduit installed under slabs shall be 1" trade size minimum and shall be wrapped with 20 mil. polyvinyl chloride plastic tape.

3. All conduit except as hereinafter specified, installed in concrete, masonry and block walls, or damp or hazardous location, or subject to mechanical injury shall be heavy wall, threaded, galvanized rigid steel conduit (GRC), or intermediate metal conduit (IMC). Installation of conduit in block walls shall be approved by the Structural Engineer prior to rough-in.

4. Flexible steel conduit shall be permitted to be used at light fixture outlets, building seismic separations, and connections to vibrating electrical equipment. Flexible steel conduit runs shall be less than 6'-0". All outdoor installation shall be made using liquid-tight flex with approved fittings. Use of flexible conduit shall be as approved by the Engineer.

5. MC Luminary cable may be used at light fixture outlets. Cable runs shall be less than 6'-0".

6. Intermediate metal conduit (IMC), is approved for use in all locations as approved for GRC or EMT and in accordance with Article 345 of CEC and UL Information card #DYBY.

7. All conduit installed in the dry walls or ceilings of the building shall be steel tube (EMT), Galvanized Rigid Steel (GRC), or Intermediate Metal Conduit (IMC).

8. NM sheathed cable is not allowed.

9. Conduit shall be run so as not to interfere with other piping fixtures or equipment.

10. The ends of all conduit shall be cut square, carefully reamed out to full size and shall be shouldered in fitting.

11. No running threads will be permitted in locations exposed to the weather, in concrete or underground. Special union fittings shall be used in these locations.

12. Underground conduit shall be, unless otherwise indicated, Schedule 40 PVC (polyvinyl chloride) installed at depth of not less than 24" below grade, concrete encased with a minimum of 3” concrete envelope and 2” minimum between conduits. Conduit separation shall be maintained using plastic spacers located at 10'-0" intervals. Where power and communication/signal conduits are run in a common trench a (12") inch minimum separation shall be maintained between power and communication/signal conduits. The grounding wire in plastic conduit shall be rated in accordance with Article 250 of 2025 CEC. Conduit encasement will not be required for conduits installed under the building slab (building footprint).

13. All underground or imbedded conduit shall be 1" minimum trade size for steel and for PVC.

14. Where underground power feeder conduit runs stub-up, conduit shall transition to GRC underground. The contractor shall use GRC elbows and GRC risers wrapped in 20 mil. PVC tape for stub-ups. Conduit stub-ups for branch circuits and low voltage systems shall be PVC.

15. Underground stub-ups at footings shall be installed in compliance with the Structural Engineer’s requirements.

16. PVC conduit shall not be run in walls or aboveground.

17. Where underground conduit runs penetrate floor slab, conduit shall terminate 6” above finished floor with a grounding bushing.

18. Underground stub-ups at the generator shall extend, unbroken, 20” above finished grade.

19. Underground conduit shall not be run under the generator or fuel tank.

20. Where conductors enter a raceway in a cabinet, pull box, junction box, or auxiliary gutter, the conductors shall be protected by a plastic bushing type fitting providing a smoothly rounded insulating surface.

21. Where conduit extends through roof to equipment on roof area, this Contractor shall provide 24 gauge galvanized sheet metal flashing cones with 4" flanges on roof surface. This flashing shall be delivered to the roofing contractor for installation. The actual location of all such roof penetrations and outlet shall be verified by the Contractor.

22. All conduit underground, in masonry and concrete walls, and where concealed under floor slabs shall have joints painted with thread compound prior to makeup. Conduit shall not be installed horizontally in concrete floors.

23. Conduit run in block walls shall be installed as required by the Structural Engineer. Refer to Structural block wall installation details for allowable methods of conduit in the block walls of the building.

24. All conduit shall be supported at intervals not less than 6'-0" and within 12" from any outlet and at each side of bends and elbows. Conduit supports shall be galvanized, heavy stamped, two hole conduit clamp properly secured.

25. Where conduit racks are used the rack shall consist of two piece conduit clamps attached to galvanized steel slotted channels, properly secured via threaded rods attached directly to the building structure.

26. Nail-in conduit supports and staples will not be allowed. One piece set-screw type conduit clamps or perforated iron for supporting conduit will not be permitted.

27. Seismic Conduit Support:

    a. All conduit shall be supported in such a manner that it is securely attached to the structure of the building. Attachment is to be capable of supporting the tributary weight of conduit and contents in any direction. Maximum spacing of support and braces are to be as follows:

CONDUIT TYPE	MAXIMUM SPACING
EMT, IMC	10'-0"
GRC (3/4” thru 1 ½”)	10'-0"
GRC (2” thru 2½”)	16'-0"
GRC (3” and larger)	20'-0"

28. All conduit runs shall be installed parallel or perpendicular to walls, structural members, or intersection of vertical planes and ceilings, and installed in a neat, workmanlike manner, without offsets/jogs or crisscrossing. Field made bends and offset shall be avoided where possible. Crushed or deformed raceway shall not be installed.

29. Open knockouts in outlet boxes only where required for inserting conduit. Unused openings shall be sealed using factory fittings.

30. Outlet boxes on metal studs shall be attached to metal hangers, tack welded or bolted to studs; on wood studs attachment shall be with wood screws, nails not acceptable.

31. All boxes shall be covered with outlet box protector, Appleton SB-CK. Keep dirt from entering box or panels. If dirt does get in, it shall be removed prior to pulling wires.

32. All boxes installed outdoors shall be suitable for outdoor installations, gasketed, screw cover and painted as directed by the Architect with weatherproof paint to match building.

33. All conduit entries to outdoor mounted panels, cabinets, boxes, etc., shall be made using Myers "SCRU-TITE" hubs Series ST.

34. All conduit shall have a 200 lb test poly-propylene pull line left in place for future use in all runs tagged with a plastic tag at terminating end indicating the location of the opposite end of the conduit.

35. All rotating electrical equipment shall be supplied with flexible, liquid-tight conduit with appropriate slack and shall not exceed thirty-six (36) inches.

36. All multiple conduit runs within suspended ceilings shall be suspended from building structure by means of unistrut hangers/rack, see note 25. Refer to note 24 for support of single conduit runs within suspended ceilings. Conduit shall not be allowed to lay on ceiling or be supported from ceiling suspension wires or other suspension system.

37. Provide complete conduit system for all line voltage systems. Provide conduit for low voltage systems installed over inaccessible ceilings and in rooms with no dropped ceilings (open ceilings). The Contractor shall coordinate the location of inaccessible or open ceilings with the Architectural Reflected Ceiling Plan and in the filed with the ceiling contractor prior to rough-in.

38. All raceways shall be installed concealed in walls, floors or ceilings. Exposed raceways shall be permitted only in open ceiling (no T-bar or hard-lid ceiling) areas, unless specifically approved in writing by the Architect/Engineer. When approved by the Architect/Engineer exposed raceways in public spaces shall be as manufactured by Wiremold or approved equal, conduit may be used in utility spaces. Exposed raceways shall be painted to match the finish of the surface to which it is supported to.

39. Provide minimum 18” square ceiling access panels for devices, outlets, junction/pull boxes installed over inaccessible ceilings. Refer to the Architectural Reflected Ceiling plans for location of hard-lid/gyp board ceilings.

40. Install two (2) 2”C. sleeves in the common wall between the ceiling space of a room on the other side of a corridor. The sleeves shall be used for routing of low voltage wire/cable thru full height walls and fire rated walls. Sleeves shall be sealed to prevent transmission of noise between the room and the corridor.

41. Install four (4) 2”C. sleeves in each of the common walls between the ceiling space of the Communications room and the adjacent corridor. The sleeves shall be used for routing of low voltage wire/cable thru the full height walls and fire rated walls. Sleeves shall be sealed to prevent transmission of noise between the room and the corridor.

B. Installation of Conductors:

1. All line voltage wire, including control circuits, shall be installed in conduit.

2. All communications wire/cable shall be listed for open wiring (without conduit) and shall be plenum rated. Communications wire/cable shall be supported by “J” hooks installed along the perimeter walls of the building or full-height interior walls. Low voltage wiring installed over inaccessible ceilings shall be installed in conduit. Conduit shall be sized for the quantity of wire/cables contained therein and in compliance with the CEC. Communications wire/cable installed below grade shall be U.L. listed for the application.

3. All line voltage circuits and feeder wires shall be continuous from the service point to terminal or farthest outlet. No joints shall be made except in pull, junction or outlet boxes, or in panel or switchboard gutters.

4. All low voltage wire/cables shall be continuous from the service point to terminal or farthest outlet. No joints will be allowed.

5. Thoroughly clean all conduit and wire-ways and see that all parts are perfectly dry before pulling any wires. No line voltage joint shall be made except in pull, junction or outlet boxes, or in panel or switchboard gutters.

6. Provide conduit only for routing of HVAC control wiring. Refer to Mechanical drawings for conduit requirements.

7. Install UL approved, fixture wire from all lighting fixture lamp sockets into fixture outlet or junction box.

C. Joints in 600 Volt Conductors:

1. Joints in 600 volt conductors smaller than No. 4 AWG shall be made with Scotchlok spring type connectors. Wires No 4 AWG and larger shall be joined together with approved type of pressure connector and taped with #33 3M tape, three (3) layers minimum to provide insulation not less than that of conductor. Connections to switch or busbar shall be made with one-piece copper lugs. Splicing of all 600 volt or less in-line connections #2 AWG through 350 MCM shall be made with 3M brand PST connector.

2. Joints/splices will not be permitted in underground pull boxes unless specifically authorized by the Engineer.

D. Grounding:

1. Provide grounding for entire electric installation as shown on plans and as required by applicable codes. Included as requiring grounding are:

   a. Conduit.
   b. Neutral or identified conductors of interior wiring system.
   c. Switchboards, Power Distribution Panels and Branch Circuit Panelboards.
   d. Non-current carrying metal parts of fixed equipment.
   e. Telephone distribution equipment.

2. Ufer ground shall be provided at the building’s “service” panel to meet the resistance specified herein. The size of the ufer grounding conductor shall be not less than that set forth in the latest edition of the California Code of Regulations, Title 24, State of California and CEC, unless otherwise indicated.

3. Grounding and bonding conductors shall be sized per the latest edition of the California Code of Regulations, Title 24, State of California and the CEC.

4. Provide and install an equipment grounding conductor in all feeder and branch circuit conduits.

5. Where required to be installed, ground rods shall be 3/4" x 10', copper clad, installed individually or grouped as required to meet the specified resistance. Provide ground rods with all required clamps, fittings, wire and concrete boxes.

6. Building grounding system resistance to ground shall not exceed 25 Ohm. Grounding resistance at the telephone back-board or MDF shall not exceed 5 Ohm.

E. Prefabricated Equipment: Installation of all prefabricated items and equipment shall conform to the requirements of the manufacturer's specifications and installation instruction pamphlets. Where code requirements affect installation of materials and equipment, the more stringent requirements, code or manufacturer's instructions and/or specifications, shall govern the work.

END OF SECTION

SECTION 26 31 00 - PACKAGED PV SYSTEM

PART 1 - GENERAL

1.01 SCOPE OF WORK

A. This section shall consist of providing a design-build packaged PV system ~~with battery storage~~ and all accessories as specified and required by the 2022 California Energy Commission Title 24. The equipment supplier must be the authorized distributor for each component of the products specified herein. The work includes the furnishing of all labor, materials, equipment, test, and training to provide a complete and workable solar power generating system, including the PV modules, inverters, conduit and equipment labeling, system monitoring, PV module support system and interconnecting conduit/wire, and specified herein. It is the intent of these specifications to have a single source responsibility for the PV modules, inverter, ~~battery storage~~ and support structure.

B. Any and all exceptions to the published specifications shall be subject to the approval of the engineer.

C. The power generating system shall be furnished by a solar integrator (contractor) who shall be responsible for the installation, coordination, and testing of the complete system. The contractor shall have documentary proof of being in business for ten (10) years and installed a minimum of ten (10) systems of equal or greater size. The entire system shall be installed as shown on the plans, drawings, and specifications herein.

D. The equipment shall be produced by a manufacturer who has produced this type of equipment for a period of at least 10 years and who maintains a service organization available twenty-four hours a day throughout the year.

E. The equipment shall be produced by a manufacturer who is ISO 9001 certified for the design, development, production, installation, and service of the complete product line.

F. Complete and submit utility company interconnect agreement and required documentation (plans, diagrams, specifications and equipment data sheets) to the serving utility company for approval.

G. Secure and pay for required permits and approvals from the serving utility company.

H. Complete and submit utility company, State and local incentive/rebate program applications.

I. The PV system is the sole responsibility of the contractor. The PV contractor shall submit plans, equipment data sheets, wiring diagrams and calculations to the authority having jurisdiction (AHJ) for review and approval. The PV system submittal to the AHJ shall bear the stamp and signature of a professional engineer registered in the State of California.

J. Installation of the PV system shall commence upon approval of the PV plans by the AHJ.

K. Manufacturer model numbers included in Section 263100 were used to determine the system kW size and kWH production. Actual equipment to be used to meet the system size and production shall be determined by the design-build contractor and submitted to the Engineer of Record for review prior to submittal to the Plan Check agency and utility company.

1.02 GENERAL REQUIREMENTS

A. It is the intent of this specification to secure an electrical power generating system that has been tested during design verification, production and at the final job site. All finished

equipment shall be of the lasted commercial design and will be complete with all of the necessary accessories for complete installation as shown on the plans, drawings, and specifications herein. The equipment supplied and installed shall meet the requirements of the 2022 California Electrical Code, along with all applicable local codes and regulations. All equipment shall be new and of current production of a national firm that manufactures PV modules, inverters and assembles them as a complete and coordinated system. There will be one source responsibility for warranty, parts, and service through a local representative with factory-trained servicemen.

B. The electrical power generating system shall be rated 8.8 kW (STC). System output may range between 10,870 kWh and 11,504 kWh per year.

C. Refer to Section 260000 for Submittal requirements.

1.03 RELATED DOCUMENTS

A. The following specification section apply to all work herein:

1. Section 260000 – General Electrical Requirements.

1.04 SUBMITTAL AND MANUALS

A. Comply with all requirements of the General Conditions, Supplementary Conditions and applicable sections of Divisions 1 and 16 of these specifications.

B. Additional requirements of this section are:
1. Within thirty-five (35) calendar days after the date of award of the Contract, the Contractor shall submit to the Architect for review, eight copies of a complete submission.
2. The submission shall consist of five major sections with each section separated with index tabs. Each page in the submission shall be numbered chronologically and shall be summarized in the index.
3. The first section shall be the "Index" which shall include the project title and address, name of the firm submitting the proposal and name of the Architect.
4. The second section shall include a copy of the Installing Contractors valid C-10 California State Contractors License, letters of factory authorization and guaranteed service, list of 10 projects of equal scope and list of proposed instrumentation to be used by the Contractor.
5. The third section shall contain the comparative specification listing, including a complete listing of the characteristics of the equipment to be furnished next to all of the specified equipment's features and functions as stated in the specifications and data sheets.
6. The fourth section shall contain an original factory data sheet for every piece of equipment in the specifications.
7. The fifth section shall contain a wiring designation schedule for each circuit leaving each piece of equipment and drawings showing system wiring plans.
8. The submittal shall also include, but not be limited to, a site plan indicating site distribution of system wire/cable, floor plans indicating location of equipment, system devices, required wire/cable between equipment and devices, site specific wiring/connection diagrams, system three-line diagram, equipment elevations indicating dimensions and the arrangement/placement of all wall/floor mounted equipment. Calculations for the PV system kW size, battery storage system, annual kWH production.
9. Submit installation details and structural calculations for the attachment of the roof mounted PV support system, PV module attachment to the support system, inverter and battery cabinet.

C. The Contractor shall provide two copies of an "Operating and Servicing Manual" for the system. The manuals shall be bound in flexible binders. All data shall be printed material or

typewritten. Each manual shall include the following: Instructions necessary for the proper operation and servicing of the system; complete as-built installation drawings of the system; a wiring destination schedule for each circuit leaving for each piece of equipment; a schematic diagram of major components with all transistor and IC complements and replacement number.

PART 2 - PRODUCTS

2.01 INVERTER:

A. 208V. 3 phase, **10 kw**, transformerless, string inverter with integral AC and DC disconnect switches, DC arc-fault protection, integrated DC fused string combiner, and **97%** CEC efficiency. As manufactured by **SolarEdge** , or approved equal.

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2.02 PV MODULES

A. Modules shall be as manufactured by Phono Solar, 550W Twinplus Module, or approved equal by the project Electrical Engineer.

B. Module shall meet UL 61730 requirements, shall carry the CE mark and meet IEC 61215 and IEC 61730 standards.

C. Module shall have a 25 year power performance warranty for 80% of warranted minimum power.

D. Construction:
   I. Front – Solar glass with anti-reflective surface treatment, 3.2mm (0.13”).
   II. Back Sheet – Highly resistant polymer (black).
   III. Frame – 1.5 mm Anodized aluminum (black).

E. The terminal box shall have integral built-in bypass diode protection (to preserve array output power during periods of local shading). The junction box shall be weather resistant, watertight, UV and microbe resistant and meet IEC 61215 edition 2 design. The junction box will have positive and negative, 12 AWG, dual insulated cables with UL listed polarized weatherproof connectors. Connectors will be IP65 designed and meet 2022 CEC standards.

F. The module manufacturer shall have been in business for more than 20 years with modules operating in the field for more than 20 years.

2.03 SUPPORT SYSTEM:

A. PV panels are to be mounted on the roof.

B. Roof support system shall be as manufactured by Unirac or approved equal. Contractor shall submit the design of the support system and structural calculations to the project/building Structural Engineer of Record (SEOR) for review. Contractor shall make revisions to the support system as required by the SEOR.

C. Contractor shall coordinate the placement and attachment of the support system with the general contractor and the roof contractor.

2.04 METERING, MONITORING SYSTEM:

A. A data acquisition system (DAS) shall be provided as part of the PV system. The DAS shall include instrumentation that allows the measurement of

1. Ambient temperature.
2. PV module temperature.
3. Wind speed.
4. Plane of array solar irradiation.
5. DC system voltage.
6. DC system current.
7. AC system power output.
8. Overall facility energy use in 15 minute increments whether the energy is from solar or the utility – in essence a utility company “shadow” meter.

B. The DAS shall include a data-logger, network interface device for data retrieval, Nema 4 enclosure, dry bulb temperature measuring device with radiation shield, anemometer, and solar sensor.

C. The DAS shall be certified by the California Solar Initiative and shall be listed on the Go solar California website.

D. The data acquisition system shall include 5-years of monitoring and hosting service on a secure website – per the minimum requirements of the California Solar Initiative.

E. Meters shall be provided and installed per the California Solar Initiative program and shall provide revenue grade interval data recording (IDR) meter complete with industry standard telemetry for communication with ethernet services. The contractor shall also provide a connection to the building’s energy management system (EMS) for the purpose of metering, monitoring and data collection of solar production. Meters must connect to a monitoring/data collection recording solar production through Time of Use (TOU) increments applicable to the local utility standards, with a minimum 15 minute intervals.

F. System shall include the DAS and weather station.

PART 3 - EXECUTION

3.01 Coordinate the placement and attachment of the PV modules to the support system with the support system installer.

3.02 Coordinate the placement and attachment of the solar support system to the roof with the general contractor and the roof contractor.

3.03 Coordinate the location of the DAS in the Telecom Room 114 to ensure required clearances are maintained. Route required communications conduit and wire between the DAS and the MDF and between the DAS and the inverter.

3.04 Coordinate the location of the weather station to ensure optimum performance.

3.05 Replace damaged PV modules and modules that are not performing to the manufacturer’s specifications with new modules.

3.06 Test inverter for compliance with the manufacturer’s specifications. Replace damaged or non-performing inverter with new inverter.

3.07 Clean all module and inverter surfaces at completion of the project.

3.08 Refer to Architectural roof plan for the solar ready areas and Electrical plans for preferred PV system equipment locations.

3.09 Coordinate routing of PV conduit, equipment locations and connections to the facility power distribution system with the General Contractor and Electrical Contractor prior to rough-in.

END OF SECTION

PART 1 - GENERAL

1.1 SCOPE

Furnish and install automatic transfer switches (3ATS) with number of poles, amperage, voltage, and withstand current ratings as shown on the plans. (ASCO Catalog No J03ATSA30600CGXC (11BE,18RX,31Z) 6 Each automatic transfer shall consist of a mechanically held power transfer switch unit and a microprocessor controller, interconnected to provide complete automatic operation. All transfer switches and control panels shall be the product of the same manufacturer.

1.2 ACCEPTABLE MANUFACTURERS

Automatic transfer switches shall be ASCO Series 300 (3ATS). Any alternate shall be submitted to the consulting engineer in writing at least 10 days prior to bid. Each alternate bid must list any deviations from this specification.

1.3 CODES AND STANDARDS

A. UL 1008 - Standard for Automatic Transfer Switches.
B. CSA C22.2 No.178 – 1978
C. NFPA 70 - National Electrical Code
D. NFPA 99 – Health Care Facilities
E. NFPA 110 - Emergency and Standby Power Systems
F. IEEE Standard 446 - IEEE Recommended Practice for Emergency and Standby Power Systems for Commercial and Industrial Applications
G. NEMA Standard ICS10-2005 (formerly ICS2-447) - AC Automatic Transfer Switches
H. NEC Articles 700, 701, 702
I. International Standards Organization ISO 9001: 2008
J. IEC 60947 – 6 – 1

PART 2 - PRODUCTS

2.1 MECHANICALLY HELD TRANSFER SWITCH

A. The transfer switch unit shall be electrically operated and mechanically held. The electrical operator shall be a single-solenoid mechanism, momentarily energized. Main operators which include over current disconnect devices will not be accepted. The switch shall be mechanically interlocked to ensure only one of two possible positions, normal or emergency.

B. The switch shall be positively locked and unaffected by momentary outages so that contact pressure is maintained at a constant value and temperature rise at the contacts is minimized for maximum reliability and operating life.

C. All main contacts shall be silver composition. Switches rated 800 amperes and above shall have segmented blow-on construction for high withstand current capability and be protected by separate arcing contacts.

D. Inspection of all contacts shall be possible from the front of the switch without disassembly of operating linkages and without disconnection of power conductors. A manual operating handle shall be provided for maintenance purposes. The handle shall permit the operator to manually

stop the contacts at any point throughout their entire travel to inspect and service the contacts when required.

E. Designs utilizing components of molded-case circuit breakers, contactors, or parts thereof which are not intended for continuous duty, repetitive switching or transfer between two active power sources are not acceptable.

F. Where neutral conductors must be switched, the ATS shall be provided with fully- rated neutral transfer contacts.

G. Where neutral conductors are to be solidly connected, a neutral terminal plate with fully-rated AL-CU pressure connectors shall be provided.

2.2 GROUP 'G' CONTROLLER WITH INTEGRATED USER INTERFACE PANEL

A. The controller shall be connected to the transfer switch by an interconnecting wiring harness. The harness shall include a keyed disconnect plug to enable the controller to be disconnected from the transfer switch for routine maintenance.

B. The controller shall direct the operation of the transfer switch. The controller's sensing and logic shall be controlled by a built-in microprocessor for maximum reliability, minimum maintenance, inherent serial communications capability, and the ability to communicate via the Ethernet through optional communications module.

C. A single controller shall provide single and three phase capability for maximum application flexibility and minimal spare part requirements. Voltage sensing shall be true RMS type and shall be accurate to ± 1% of nominal voltage. Frequency sensing shall be accurate to ± 0.1Hz. Time delay settings shall be accurate to ±0.5% of the full scale value of the time delay. The panel shall be capable of operating over a temperature range of -20 to + 70 degrees C, and storage from -55 to + 85 degrees C.

D. The controller shall be enclosed with a protective cover and be mounted separate from the transfer switch unit for safety and ease of maintenance. Sensing and control logic shall be provided on printed circuit boards.

E. The controller shall meet or exceed the requirements for Electromagnetic Compatibility (EMC) as follows:

1. IEC 60947 – 6 – 1 Multiple Function Equipment Transfer Switching Equipment. 61000-4 Testing And Measurement Techniques – Overview.
    a. IEC 61000 – 4 - 2 Electrostatic Discharge Immunity
    b. IEC 61000 – 4 - 3 Radiated RF Field Immunity
    c. IEC 61000 – 4 - 4 Electrical Fast Transient/Burst Immunity.
    d. IEC 61000 – 4 - 5 Surge Immunity
    e. IEC 61000 – 4 – 6 Conducted RF Immunity
2. CISPR 11 – Conducted RF Emissions and Radiated RF Emissions

2.3 ENCLOSURE

A. The 3ATS shall be provided with a Nema 1 enclosure suitable for floor mounting.

2.4 CONTROLLER DISPLAY AND KEYPAD

A. A 128*64 graphical LCD display and keypad shall be an integral part of the controller for viewing all available data and setting desired operational parameters. Operational parameters shall also be available for viewing and limited control through communications port. The following parameters shall only be adjustable via DIP switches on the controller.

1. Nominal line voltage and frequency

2. Single or three phase sensing on normal

3. Transfer operating mode configuration, (open transition)

All instructions and controller settings shall be easily accessible, readable and accomplished without the use of codes, calculations, or instruction manuals.

B. Voltage and Frequency Sensing

1. Voltage and frequency on both the normal and emergency sources (as noted below) shall be continuously monitored, with the following pickup ,dropout, and trip settings capabilities (values shown as % of nominal unless otherwise specified.

Parameter	Sources	Dropout/Trip	Pickup/Reset
Undervoltage	N & E	70 to 98%	85 to 100%
Overvoltage	N & E	102 to116%	2% below trip
Underfrequency	N & E	85 to 98%	86 to 100%
Overfrequency	N & E	101 to 111%	2% below trip

2. Repetitive accuracy of all settings shall be within 1% at +25C

3. Voltage and frequency settings shall be field adjustable in 1% increments either locally with the display and keypad or remotely via serial communications port access.

4. Source status screens shall be provided for both normal & emergency to provide digital readout of voltage and frequency. *Note: Single phase sensing on emergency.*

5. The backlit 128*64 graphical display shall have multiple language capability. Languages can be selected from the user interface.

C. Time Delays

1. A time delay shall be provided to override momentary normal source outages and delay all transfer and engine starting signals, adjustable 0 to 6 seconds. It shall be possible to bypass the time delay from the controller user interface.

2. A time delay shall be provided on transfer to emergency, adjustable from 0 to 60 minutes 59 seconds for controlled timing of transfer of loads to emergency. It shall be possible to by-pass the time delay from the controller user interface.

3. A generator stabilization time delay shall be provided after transfer to emergency adjustable 0 or 4 seconds.

4. A time delay shall be provided on retransfer to normal, adjustable 0 to 9 hours 59 minutes 59 seconds. Time delay shall be automatically bypassed if emergency source fails and normal source is acceptable.

5. A cooldown time delay shall be provided on shutdown of engine generator, Adjustable 0 to 60 minutes 59 seconds.

6. All adjustable time delays shall be field adjustable without the use of special tools.

7. A time delay activated output signal shall also be provided to drive an external relay(s) for selective load disconnect control. The controller shall have the ability to activate an adjustable 0 to 5 minutes 59 seconds time delay in any of the following modes:
   a. Prior to transfer only.
   b. Prior to and after transfer.
   c. Normal to emergency only.
   d. Emergency to normal only.
   e. Normal to emergency and emergency to normal.
   f. All transfer conditions or only when both sources are available.

8. In the event that the alternate source is not accepted within the configured Failure to Accept time delay, the common alert indication shall become active.

9. The controller shall also include the following built-in time delay for delayed transition operation.

10. A time delay for the load disconnect position for delayed transition operation adjustable 0 to 5 minutes 59 seconds.

2.5 ADDITIONAL FEATURES

A. The user interface shall be provided with test/reset modes. The test mode will simulate a normal source failure. The reset mode shall bypass the time delays on either transfer to emergency or retransfer to normal.

B. A set of contacts rated 5 amps, 30 VDC shall be provided for a low-voltage engine start signal. The start signal shall prevent dry cranking of the engine by requiring the generator set to reach proper output, and run for the duration of the cool down. setting, regardless of whether the normal source restores before the load is transferred.

C. Auxiliary contacts, rated 10 amps, 250 VAC shall be provided consisting of one contact, closed when the ATS is connected to the normal source and one contact closed when the ATS is connected to the emergency source.

D. A single alarm indication shall light up the alert indicator and de – energize the configured common alarm output relay for external monitoring.

E. LED indicating lights shall be provided; one to indicate when the ATS is connected to the normal source (green) and one to indicate when the ATS is connected to the emergency source (red).

F. LED indicating lights shall be provided and energized by controller outputs. The lights shall provide true source availability of the normal (green) and emergency (red) source, as determined by the voltage sensing trip and reset settings for each source.

G. LED indicating light shall be provided to indicate switch not in automatic mode (manual); and blinking (amber) to indicate transfer inhibit.

H. LED indicating light shall be provided to indicate any alarm condition or active time delay (red).

I. Provide the ability to select “commit/no commit to transfer” to determine whether the load should be transferred to the emergency generator if the normal source restores before the generator is ready to accept the load.

J. A variable window inphase monitor shall be provided in the controller. The monitor shall control transfer so that motor load inrush currents do not exceed normal starting currents, and shall not require external control of power sources. The inphase monitor shall be specifically designed for and be the product of the ATS manufacturer. The inphase monitor shall be equal to ASCO feature 27.

K. An engine generator exercising timer shall be provided to configure weekly and bi- weekly automatic testing of an engine generator set with or without load for 20 minutes fixed. It shall be capable of being configured to indicate a day of the week, and time weekly testing should occur.

L. Terminals shall be provided for a remote contact to signal the ATS to transfer to emergency. This inhibit signal can be enabled through the keypad or serial port.

M. System Status - The controller LCD display shall include a “System Status” screen which shall be readily accessible from any point in the menu by depressing the “ESC” key. This screen shall display a clear description of the active operating sequences and switch position. For example,
Normal Failed
Load on Normal
TD Normal to Emergency 2min 15s

Controllers that require multiple screens to determine system status or display “coded” system status messages, which must be explained by references in the operator’s manual are not permissible.

N. Self Diagnostics – The controller shall contain a diagnostic screen for the purpose of detecting system errors. This screen shall provide information on the status input signals to the controller which may be preventing load transfer commands from being completed.

O. Communications Interface – The controller shall be capable of interfacing, through an optional serial communication port with a network of transfer switches, locally (up to 4000 ft.). Standard software specific for transfer switch applications shall be available by the transfer switch manufacturer. This software shall allow for the monitoring, control, and setup of parameters.

P. Data Logging – The controller shall have the ability to log data and to maintain the last 99 events, even in the event of total power loss. The following events shall be time and date stamped and maintained in a non – volatile memory.

1. Event Logging
   a. Data and time and reason for transfer normal to emergency
   b. Data and time and reason for transfer emergency to normal
   c. Data and time and reason for engine start
   d. Data and time engine stopped
   e. Data and time emergency source available
   f. Data and time emergency source not available

2. Statistical Data
   a. Total number of transfers
   b. Total number of transfers due to source failure
   c. Total number of day's controller is energized
   d. Total number of hours both normal and emergency sources are Available
   e. Total time load is connected to normal
   f. Total time load is connected to emergency
   g. Last engine start
   h. Last engine start up time
   i. Input and output statuS

Q. Accessory Package - An accessory bundle shall be provided that includes:

1. A fully programmable engine exerciser with seven independent routines to exercise the engine generator, with or without load on a daily weekly, bi – weekly, or monthly basis.
2. Event log display that shows event number, time and date of events, event type, and reason (if applicable). A minimum of 300 events shall be stored.
3. RS – 485 communications port enabled.
4. Common alarm output contact.

R. Expansion Module - A relay expansion module (REX) is a standard feature when delayed transition transfer is specified. A REX module shall also be provided for open transition transfer that includes one form C contact for source availability of the normal (18G) and emergency (18B) sources. Additional output relay shall be provided to indicate a common alarm. The REX module shall have the capability of being daisy chained for multiple sets of contacts. (This feature shall be equal to ASCO accessory 18RX, and shall be capable of being added to existing switches without modification).

2.6 WITHSTAND AND CLOSING RATINGS

A. The ATS shall be rated to close on and withstand the available RMS symmetrical short circuit current at the ATS terminals with the type of overcurrent protection shown on the plans. WCR ATS ratings shall be as follows when used with specific circuit breakers:

ATS Size	Withstand & Closing Rating MCCB (480v/60hz)	W/CLF

800 – 1200	65,000A (and 50kA Time-Based Rating)	200,000

PART 3 - EXECUTION

3.1 INSTALLATION

A. Check out transfer switch connections and operations and place in service.

B. Adjust control and sensing devices to achieve specified sequence of operation.

3.2 SERVICE REPRESENTATION

A. The manufacturer shall maintain a national service organization of employing personnel located throughout the contiguous United States. The service center's personnel must be factory trained and must be on call 24 hours a day, 365 days a year.

B. The manufacturer shall maintain records of each switch, by serial number, for a minimum of 20 years.

C. For ease of maintenance, the transfer switch nameplate shall include drawing numbers and serviceable part numbers.

3.3 TRAINING

A. Demonstrate operation of transfer switch in normal, and emergency modes.

B. Furnish 4 hours of instruction each for two persons, to be conducted at project site with manufacturer's representative.

3.4 TESTS AND CERTIFICATION

A. The complete 3ATS shall be factory tested to ensure proper operation of the individual components and correct overall sequence of operation and to ensure that the operating transfer time, voltage, frequency and time delay settings are in compliance with the specification requirements.

B. Upon request, the manufacturer shall provide a notarized letter certifying compliance with all of the requirements of this specification including compliance with the above codes and standards, and withstand and closing ratings. The certification shall identify, by serial number(s), the equipment involved. No exceptions to the specifications, other than those stipulated at the time of the submittal, shall be included in the certification.

C. The ATS manufacturer shall be certified to ISO 9001: 2008 International Quality Standard and the manufacturer shall have third party certification verifying quality assurance in design/development, production, installation and servicing in accordance with ISO 9001: 2008.

END OF SECTION

SECTION 27 51 30 FIRE STATION ALERTING SYSTEM

PART 1 - GENERAL

1.01 SUMMARY

A. Furnish and install the Fire Station Alerting System Infrastructure and all applicable appurtenances as herein specified and as shown on the applicable drawings. The purpose of this document is to provide a reference for the Contractor to implement the necessary features for the installation of the Fire Station Alerting System (FSAS) equipment.

B. The FSAS system equipment shall be provided and installed by the FSAS contractor.

C. Conduit/raceways and back-boxes shall be provided and installed by the Electrical Contractor. All work shall be coordinated and in compliance with the FSAS installing contractor requirements.

D. Low voltage wire/cable shall be provided and installed by the FSAS installing contractor.

E. Final location and quantity of FSAS equipment and back-boxes shall be per the FSAS equipment plans. The contractor shall obtain a copy of the FSAS equipment drawings prior to rough-in.

F. Provide 120V. dedicated circuits for FSAS control panels and miscellaneous equipment requiring 120V. power as indicated on the FSAS drawings.

G. The electrical contractor shall notify the Architect/Engineer wherever a discrepancy in quantity or size of conduit, wire, equipment, devices, back-boxes, etc., (all materials), arises between the plans and the FSAS equipment plans. The electrical contractor shall obtain direction from the Architect/Engineer prior to proceeding with the work.

H. The electrical contractor shall be responsible for providing and installing specialty back-boxes. The electrical contractor shall patch, repair and refinish walls, ceilings or floors disturbed by the installation of the subject back boxes.

I. All requirements of Section 260000 shall apply to this section.

J. General Information:
   1. All conduits shall be sized per the California Electrical Code and shall be provided with pull strings.
   2. The alerting speakers are intended to function independent of any other system. Speaker backboxes are to be furnished by the alerting system vendor and Contractor installed.
   3. Standard 4” square and 4 11/16” square wall mounted equipment back boxes shall be provided and installed by the Contractor.
   4. Specialty/custom back-boxes shall be furnished by the FSAS contractor and installed by the electrical contractor.
   5. Radio, Antenna’s and Mast shall be provided and installed by the FSAS contractor.
   6. Electrical contractor to provide a 2” conduit from the alerting system head-end equipment to the roof at the antenna indicated on the FSAS equipment plan.
   7. Contractor shall provide a 600 ohm analog audio connection from the telephone system to the Fire Station Alerting system. Provide required cabling to connect the alerting system and the telephone switch.

K. Submittals:
   1. Comply with all requirements of the General Conditions, Supplementary Conditions and applicable sections of Divisions 1 and 26 of these specifications.

2. Additional requirements of this section are:
   a. Within thirty-five (35) calendar days after the date of award of the Contract, the Contractor shall submit to the Architect for review, eight copies of a complete submission.
   b. The submission shall consist of five major sections with each section separated with index tabs. Each page in the submission shall be numbered chronologically and shall be summarized in the index.
   c. The first section shall be the "Index" which shall include the project title and address, name of the firm submitting the proposal and name of the Architect.
   d. The second section shall include a copy of the Installing Communication Contractors valid C-10 California State Contractors License, letters of factory authorization and guaranteed service, list of 20 projects of equal scope and list of proposed instrumentation to be used by the Contractor.
   e. The third section shall contain the comparative specification listing, including a complete listing of the characteristics of the equipment to be furnished next to all of the specified equipment's features and functions as stated in the specifications and data sheets.
   f. The fourth section shall contain an original factory data sheet for every piece of equipment in the specifications.
   g. The fifth section shall contain a wiring designation schedule for each circuit leaving each piece of equipment and drawings showing system wiring plans.
   h. The submittal shall also include, but not be limited to, floor plans indicating location of equipment, system devices, block diagram, required wire/cable between equipment and devices, wiring/connection diagrams and a written description of the system operation and functions.

PART 2 - PRODUCTS

2.01 CONDUIT:

1. Intermediate Metal Conduit (IMC), shall be hot-dipped galvanized in accordance with UL 1242 and meeting Federal Specification WWC-581 (latest revision).

2. Electrical Metallic Tubing (EMT), shall be zinc-coated steel with baked enamel or plastic finish on inside surfaces.

3. Flexible metal conduit shall be constructed of aluminum or hot-dipped galvanized steel strips wound spirally with interlocking edges to provide greatest flexibility with maximum strength. Interior surfaces shall be smooth and offer minimum drag to pulling in conductors. Used only as directed by the Engineer.

4. Liquid-tight conduit (Seal-Tite) shall be galvanized steel flexible conduit as above except with moisture and oil-proof jacket, pre-cut lengths and factory installed fittings. For outdoor installations and final connection to speakers.

5. Non-Metallic Conduit:
   a. Polyvinyl chloride (PVC) rigid conduit, Schedule 40, Type II for underground installation only.
   b. Conduit and fitting shall be produced by the same manufacturer.

6. Electrical non-metallic tubing (ENT) is not permitted.

2.02 CONDUIT FITTINGS:

1. Connector, coupling, locknut, bushings and caps used with rigid conduit shall be steel, threaded and thoroughly galvanized. Bushings shall be insulated.

2. EMT fittings, connectors and couplings, shall be steel, zinc or cadmium plated, raintight, threadless, compression or tap-on multiple point, steel locking ring type with insulated throat.

3. Flexible steel conduit connectors shall be malleable iron clamp or squeeze type or steel twist-in type with insulated throat. The finish shall be zinc or cadmium plating.

4. Die cast, set screw or indenter type fittings are not acceptable.

2.03 OUTLET BOXES

1. For 120V. circuits shall be 4” square x 2 1/8” deep, steel, knockout type, mounted flush with in wall. Provide with plaster rings and wall plate.

2. For FSAS devices, outlet boxes shall be 4 11/16” square x 2 1/8” deep, steel, knockout type, mounted flush with in wall. Provided with plaster rings and leave outlet box ready for installation of Owner furnished wall plate.

3. FSAS specialty/custom boxes shall be furnished by the FSAS contractor and installed by the electrical contractor. Boxes shall be mounted flush with wall unless otherwise noted on the FSAS equipment drawings.

4. For wet or damp locations, outlet boxes shall be heavy cast aluminum or cast iron with threaded hubs; covers shall be watertight with gaskets and non-ferrous screws.

2.04 WIRE / CABLE:

1. For 120V. circuits, provide type THHN/THWN thermoplastic, 600 volt, UL approved, dry and wet locations. Refer to Section 260000 for wire requirements.

2. For FSAS communications cable, provided by the FSAS system vendor, installed by the contractor.

3. Wire and cable shall be new, manufactured not more than six (6) months prior to installation, shall have size, type of insulation, voltage rating and manufacturer's name permanently marked on outer covering at regular intervals.

4. No conductors carrying 120 volt or more shall be smaller than #12 AWG.

2.05 CABLE TRAY (MDF / IDF ROOMS):

1. Comm Room: Cable tray shall be aluminum tray or corrugated ventilated trays. Tray shall be at least 18 inches wide and 2 inches deep.

2. Cable racking: Use reusable Velcro cable managers (cable ties) to create a neat and orderly appearance and practical installation.

3. Cable tray shall be secured on 10-foot centers using single center mounted steel supporting rods and bottom “T” connector, angle wall supports, or a standard trapeze type support system.

4. Cable tray shall be grounded and bonded end to end.

5. Cable tray shall not be placed within 5 inches of any overhead light fixture and within 12 inches of any electrical ballast.

6. A minimum clearance of 8 inches above the cable tray must be maintained at all times.

2.06 TELEPHONE SYSTEM COORDINATION:

1. Provide interface between the stations's telephone switch and the FSAS controller to allow the phone system to page over the alerting system speakers.

2. Coordinate requirements with the FSAS contractor.

PART 3 - EXECUTION

3.01 WIRE/CABLE:

A. Homerun cables from the equipment/devices indicated on plan to the Communications Room (FSAS control panel/controller).

B. A minimum of 3ft cable length or 4ft cable loop at each device location for final termination.

C. Cabling shall be installed in raceways, supported by j-hooks or other approved support systems and terminated at station locations indicated.

D. Cabling shall be of a "Universal Cabling Plan" where station cables are wired directly as indicated on plans.

E. Cables not installed in conduit or wireways shall be properly secured and neat in appearance. Under no circumstances shall any cabling or support systems lie on or attach to the drop ceiling. All cabling shall be supported at least 12" above the drop ceiling.

F. Where accessible ceilings are non-existent, cables shall be run in conduit concealed in walls, ceilings or underfloor.

G. All cabling shall be supported a minimum of 4 feet on-center. Via 'J' hooks or other approved method.

H. Label each cable end with computer generated or neatly handwritten permanent ink permanent label.

3.02 CONDUIT/RACEWAYS:

A. Contractor shall provide and install all required conduit per local code requirements.

B. Coordinate with the FSAS contractor prior to rough-in.

C. Provide a cable tray to span the length of the Communications room and parallel to the equipment racks in the room.

3.03 TEST REPORTS

A. Contractor shall supply Test Reports, in both booklet form and electronic flat ASCII file format, showing all field tests performed to adjust each component and all field test performed to prove compliance with the specified performance criteria, upon completion of testing of the installed system.

B. Contractor shall supply one licensed copy of test equipment software which provides a means for viewing copper test results in the format that the original test equipment was designed, suitable for running in a DOS or Windows environment.

3.04 ACCEPTANCE

A. Acceptance of system shall occur after all required documentation, test results, certification of test results and test operation by the City of **Coastside** Fire Department has occurred. Final acceptance shall include a visual inspection of the system in its entirety and written approval by the City of Coastside Department, or their appointed representative(s).

3.05 WARRANTY

A. Contractor shall certify and warrant the complete system for a period of one year from the date of building occupancy.

B. Contractor shall certify and warrant the Cat 6 cabling system for operation at current EIA/TIA 568B 100 MHz specifications for a period of not less than 20 years.

END OF SECTION

AIR EXCHANGE
CLEAN AIR SPECIALISTS
(800) 300-2945

495 Edison Court, Suite A, Fairfield, CA 94534
1494-B East Francis St., Ontario, CA 91761
Phone: 800-300-2945 Fax: 707-864-2700
E-Mail: info@airexchange.com

Data Sheets

Coastside Fire Station #44

Plymovent - Vehicle Exhaust Removal System

Plymovent – VSRX Rail Information – VSRX-60-1/VSRX-75-1
Plymovent Fan – Motor/Blower Information
Plymovent – Electrical Information
Submittal Note Sheet

5/14/25

VSRX

RAIL

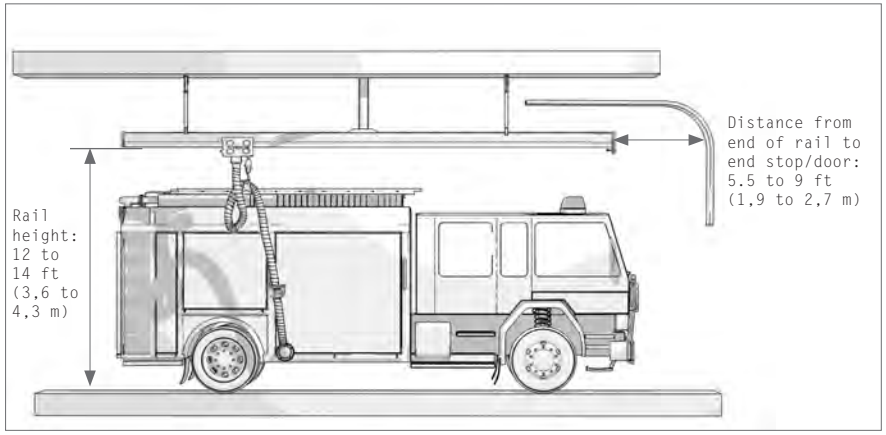
One (1) VSRX-75-1
68’ Rail - 1 Hose

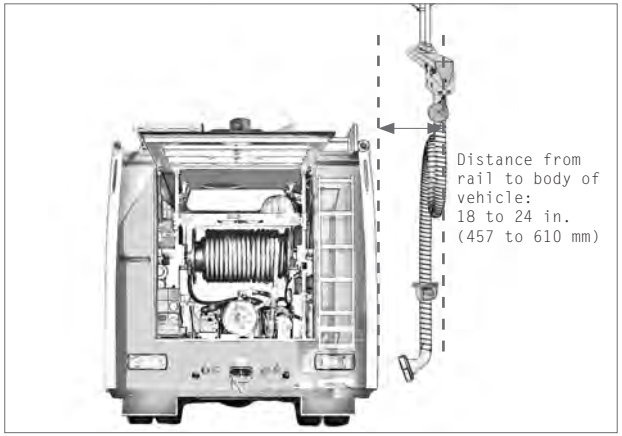
One (1) VSRX-60-1
57’ Rail - 1 Hose

PLYMOVENT®
clean air at work

Product: Vehicle Square Rail with External Trolley (VSRX)

Summary: VSRX provides exceptional airflow volume to support apparatus bays in which two to four heavy-duty vehicles are aligned. The trolley travels outside of the rail profile, and the trolley duct opens the rubber seal lips within the profile.

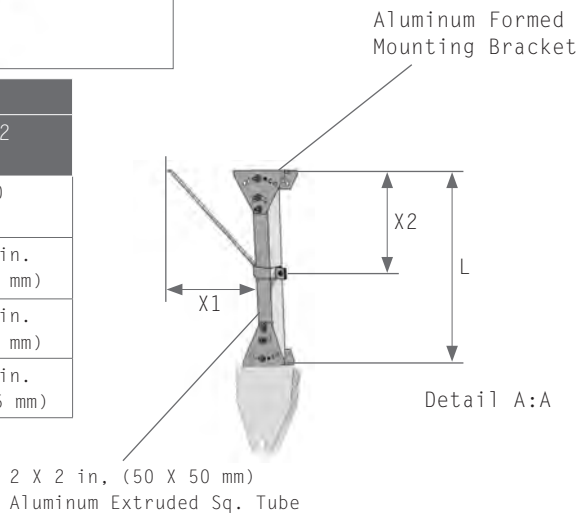




Drawings are not to scale.

System Specifications				
Type	Length: ft (m)	# of Suspensions	Weight: lbs (kg)	QTY
VSRX-20	19 (5,8)	2	210 (95,3)	
VSRX-30	28.5 (8,68)	3	309 (145,1)	
VSRX-35	31.75 (9,7)	3	339 (149,7)	
VSRX-40	38 (11,58)	4	393 (178,2)	
VSRX-45	42.75 (13)	4	427 (193,6)	
VSRX-50	47.5 (14,47)	5	471 (213,6)	
VSRX-55	51.75 (15,77)	5	507 (229,9)	
VSRX-60	57 (17,37)	6	552 (250,3)	1
VSRX-65	61.75 (18,82)	6	591 (268,1)	
VSRX-70	66.5 (20,26)	7	629 (285,3)	
VSRX-75	71.25 (21,7)	7	662 (300,3)	1
VSRX-80	76 (23,16)	8	710 (322,1)	
VSRX-85	81.75 (25)	8	741 (336,1)	
VSRX-90	85.5 (26,1)	9	782 (354,7)	
VSRX-95	92.5 (28,2)	9	833 (377,8)	
VSRX-100	95 (28,95)	10	887 (402,3)	
VSRX-120	114 (34,74)	12	1,053 (477,6)	

Support Details			
L	Brace Length	X1	X2
0 - 1.5 ft (0 - 0,45 m)	N/A	0	0
1.5 - 3 ft (0,45 m - 0,91 m)	20 in. (508 mm)	14 in. (356 mm)	14 in. (356 mm)
3 - 6 ft (0,91 - 1,82 m)	30 in. (762 mm)	21 in. (533 mm)	21 in. (533 mm)
6 - 10 ft (1,82 - 3 m)	72 in. (1829 mm)	51 in. (1295 mm)	51 in. (1295 mm)



Notes:
1. System support method: see Detail A:A and Support Details Table.
2. System location: See System Specifications Table.
3. System temperature resistance: 400°F (204°C) continuous/500°F (260°C) intermittent.
4. Weight based on 1 crab and hose assembly; each additional crab/hose adds 40 lbs (18 kg).
5. If using Plymovent Pneumatic Grabber, add additional 50 lbs (23 kg) per rail system.

Disclaimer: The intended use of this drawing is to provide general equipment dimensions. The information provided is confidential and proprietary to Plymovent Corp. and is not to be recreated, modified and/or otherwise distributed without written consent of Plymovent Corp. There are no expressed or implied warranties concerning the accuracy, completeness, reliability, or usability of this information. Use of this or any Plymovent Corp. drawing, for purposes other than its intended use, is unlawful and actions may be taken against the violating party(ies).

Job name:	DWG BY: RS	Revision: 2	Rev. date: 06/13/18
Engineer:	Plymovent Corp. 5 Corporate Drive Cranbury, NJ 08512 800-644-0911		VSRX
Customer:			

4.4 VSRX-Rail Location

1. VSRX-Rail
2. Tailpipe
3. Bay door
4. Rail height
5. Distance to vehicle
6. Distance to exit door

a. The VSRX-Rail (1) is mounted at a height (4) between 12 ft (3,7 m) and 14 ft (4,3 m) over the floor on the side in which the tailpipe (2) is located.

b. The rail should be mounted 18 in. to 24 in. (457,2 to 609,6 mm) from the body of the vehicle (5), and positioned on the tailpipe side of the vehicle. Preferably the rail is on or within the boundaries of the exit door.

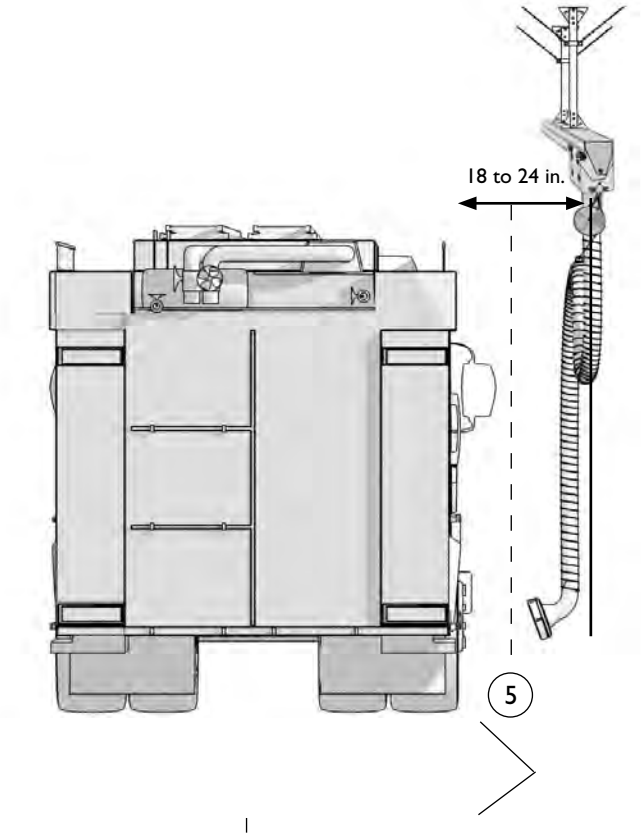
c. The rail should be mounted immediately under a sectional door with a clear height from the track to the door of 4 in. (100 mm) to 6 in. (150 mm).

d. The recommended distance from the end of the rail to the door(s) (6) can be found in the table on page 10.

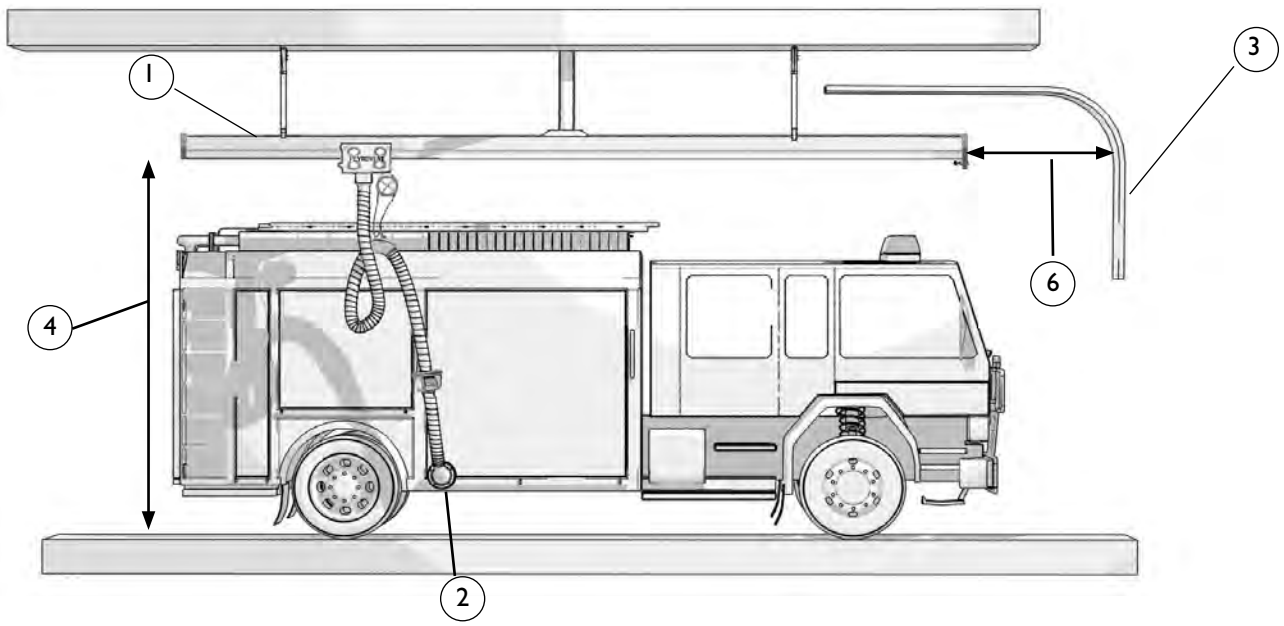
WARNING

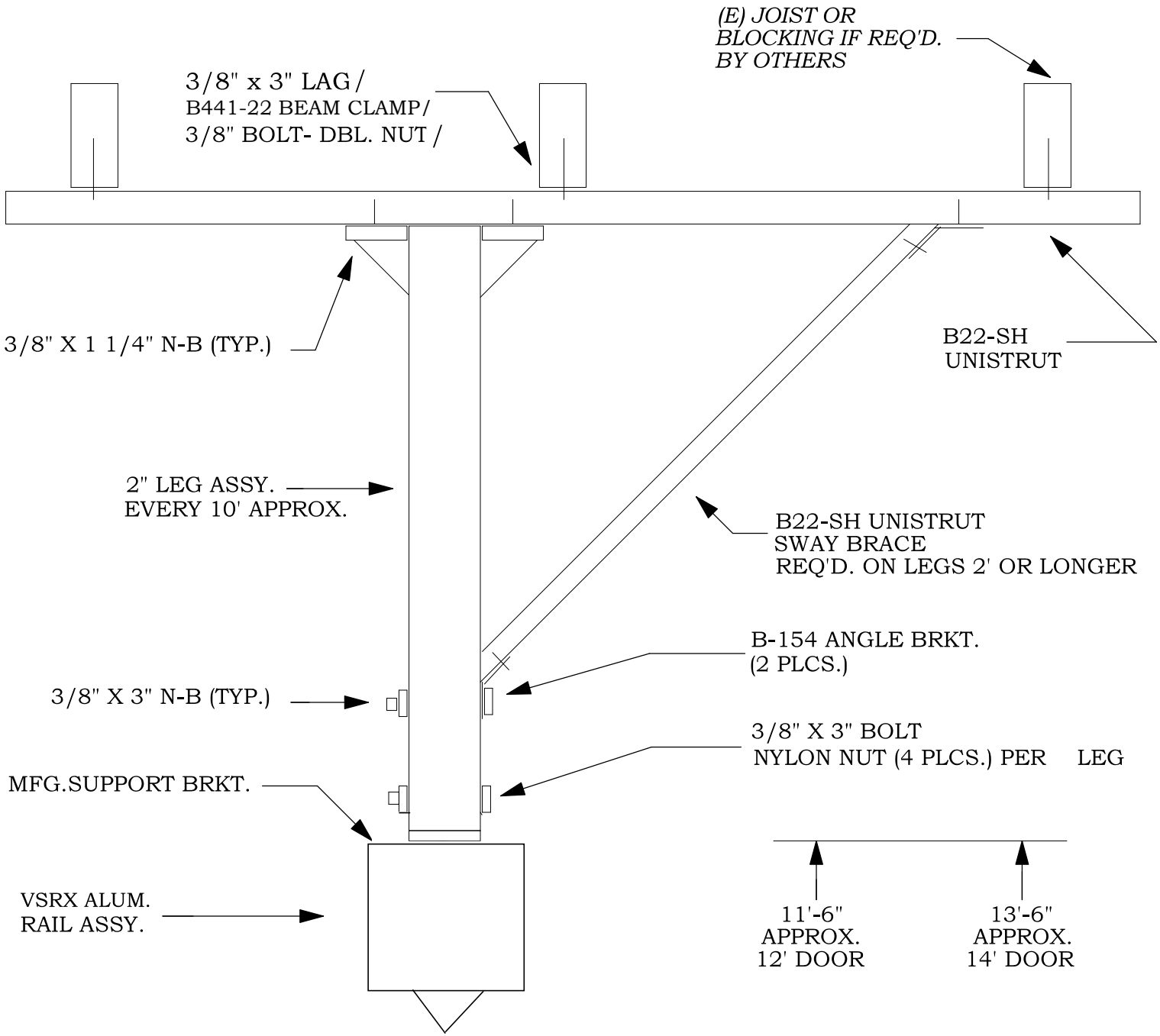
PRODUCT MAY CONTAIN SHARP EDGES
Use care when servicing unit. Failure to do so could result in minor personal injury.

End view



Sideview





STD. SUPPORT LEG

VSRX

4.6 Mount the Rubber Seal

1. VSR profile
2. Rubber seal
3. Tool no. 0000102158

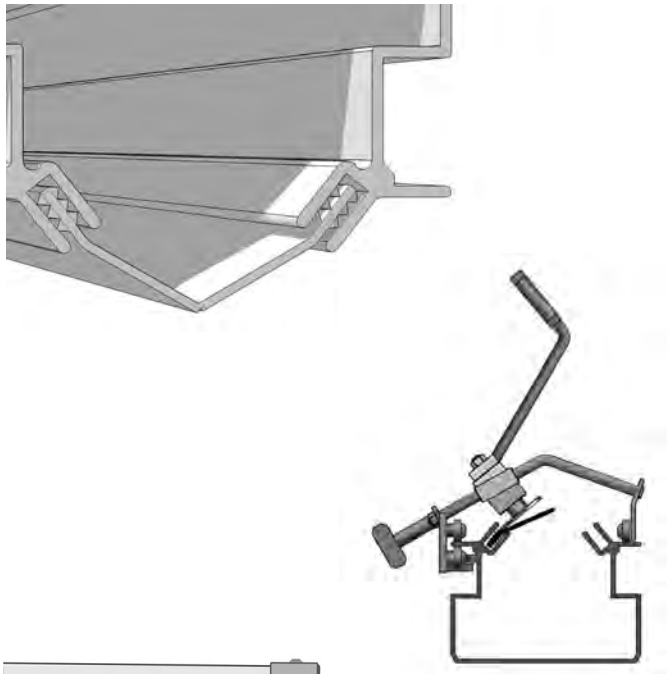
a. Turn the rail profile with the opening upwards.

The rubber lip seal can be easily installed with the Plymovent VSR Lip Tool before hanging the rail from the support legs; or you can install the lip after the rail is hung from the support legs.

The rubber lip seals are directional and must be installed with the inside bend towards the center of the rail or facing each other. With the rail still on saw horses, install the rubber lip with the bend facing inward. Spray the lip and aluminum channel with a soapy solution this will ease installation.

Start installing the first 6 in. of rubber lip by hand using a screwdriver and then position the lip tool on the rail to roll the rest of the lip into the bend. Cut the ends at a 90 degree flush with the end of the rail. Repeat for the other side.

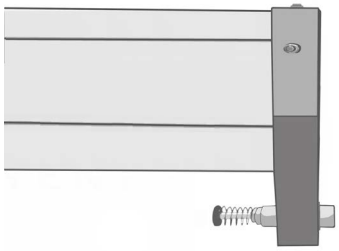
Note! The rubber seal must be angled inward.



4.7 Install the End Caps

Place each end cap on the rail and drill 4 3/8 in. holes through the pre-punched holes in the end caps. Secure the end cap with the provided hardware. Repeat for the back end cap, but do not install until the rail is hung, so you can install the crab/trolley.

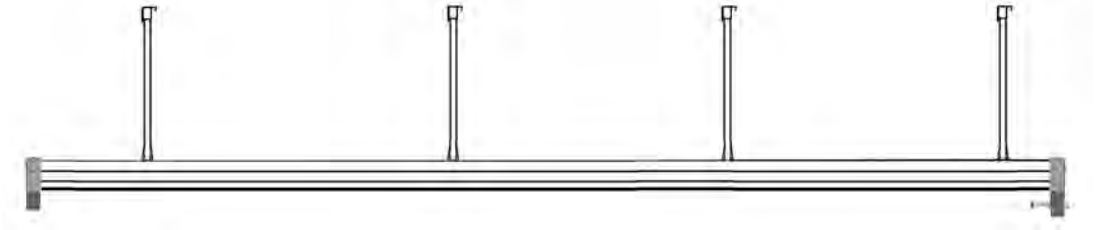
For the front end cap (nearest the door), install the shock absorber centered in the end cap, apply Blue Loctite on nuts and tighten securely.



4.8 Hang the Rail

On the top of the rail, lay out 3/8" inch holes, for the leg mounting feet locations, to match the distances between the leg assemblies previously hung from the ceiling.

Pre drill these holes. Raise the pre assembled rail using multiple scissor lifts or lifting mechanisms such as a chain fall. Position rail under leg assemblies and attach with hardware.



4.9 Assemble and Hang the Hose and Grabber

1. VSRX-profile
2. Grabber
3. Saddle
4. Crab Trolley
5. Balancer

Follow these steps to assemble and align the exhaust hose assembly:

a. Mount the upper hose (1) to the trolley using a hose clamp.

b. Attach the upper hose to the short side (from the tab) of the metal saddle (2). You may need to twist the hose to to have the u-bend or loop positioned away from the vehicle in the 3 o'clock position if looking down at the crab trolley, with the balancer at the 12 o'clock position.

c. Install the balancer (3) using the caribiner hook and safety cable (4), and attach the Balancer Locking Cable (BLC) to the trolley (5). Asemble the BLC using the length listed in the Installation Table on page 10. Ideally, 6 in. (15 cm) of the Balancer cable should be exposed when the Grabber nozzle is connected to the vehicle.

   Install the BLC so that it is on the back side of the balancer and away from the adjustment locking clip. This will keep the BLC from coming into contact and potentially breaking the locking clip. The balancer snap hook should be oriented with the catch or door of the hook on the same side of the balancer as the locking clip. This will ensure that the BLC does not open the snap hook, allowing the BLC to come loose. The BLC attachment to the metal saddle snap hook should be opposite of the catch or door so that it does not open it.

d. Attach the mid hose (6) to the long side of the metal saddle with the supplied hose clamp. The ST mid hose is directional, so install with directional arrow pointing up or with the airflow.

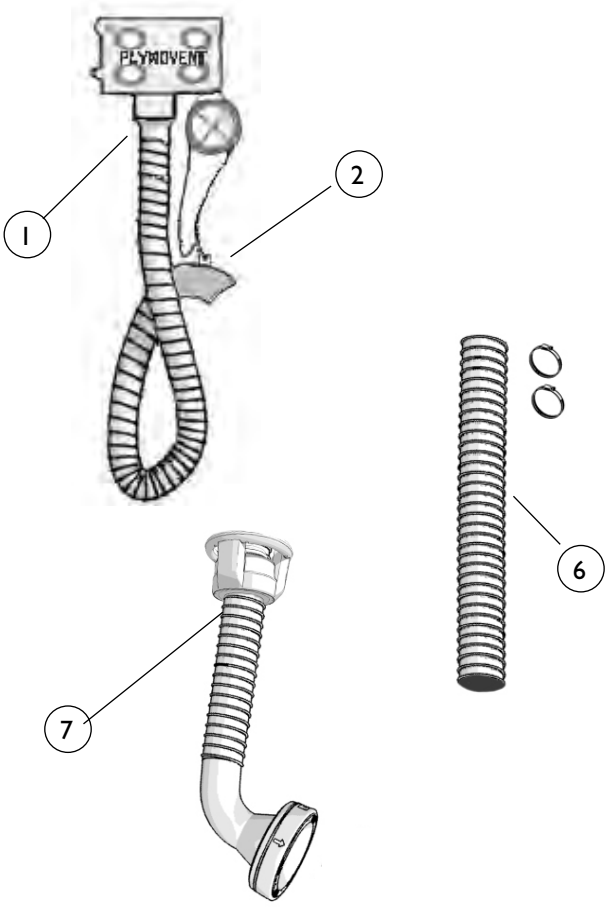
e. With the balancer holding the hose all the way up cut the mid hose at approx 4 ft (1,2 m) from the floor and attach to the Safety Disconnect Handle with the supplied hose clamp (7).

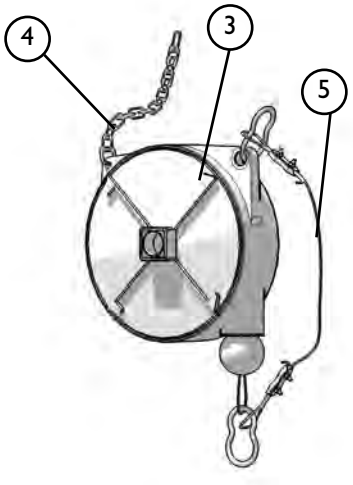
f. The height of the Grabber nozzle should be in. 14 to 18 in. (35,5 to 45,7 cm) from the finished floor (8).

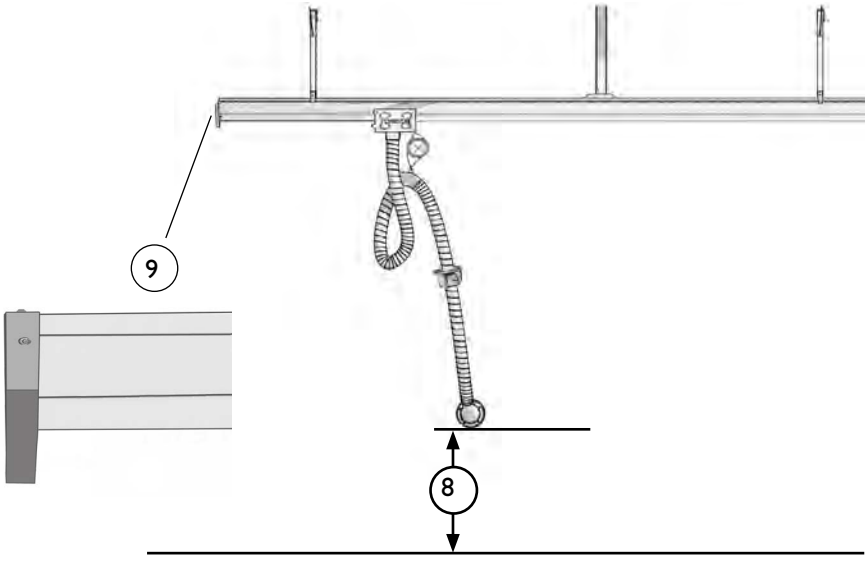
g. Secure the back end cap using the holes previously drilled (9).

WARNING

PRODUCT MAY CONTAIN SHARP EDGES
Use care when servicing unit. Failure to do so could result in minor personal injury.







GRABBER MOUNTING PROCEDURE

DATE: 8-28-95	DIVISION: Fire systems	TAB: 6 - G	APPROVED BY: Wayne Lutz

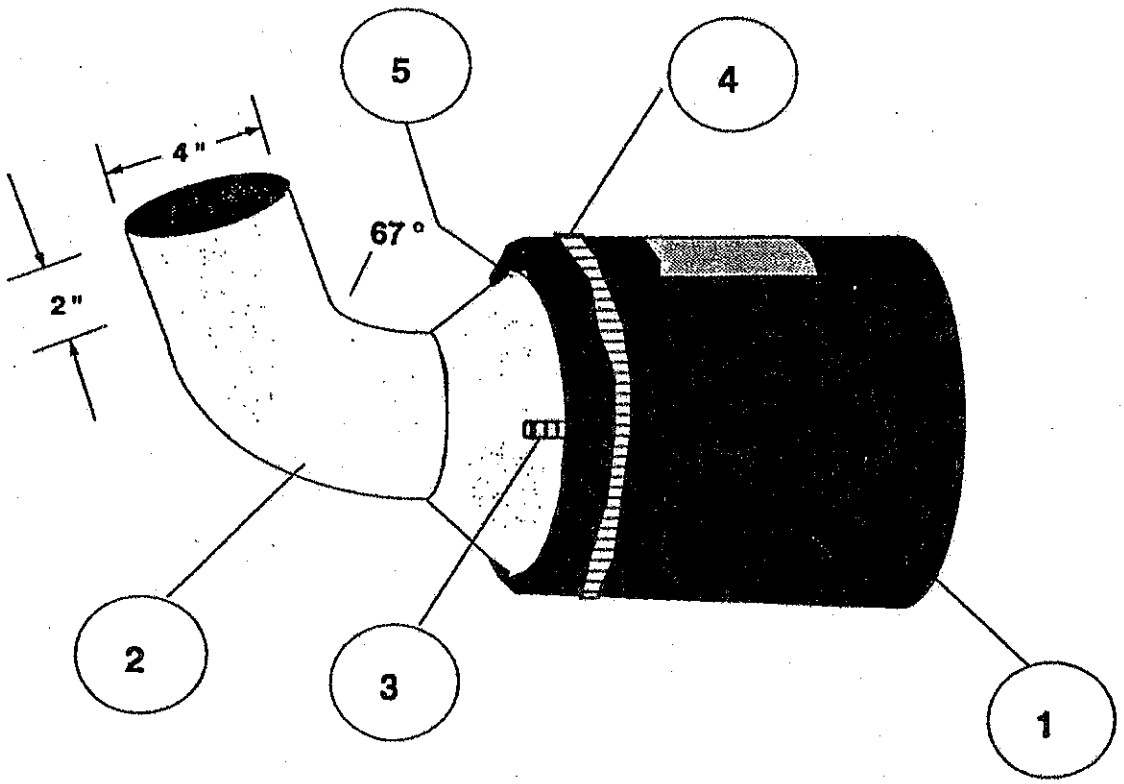
1. **GRABBER -** Offered in 4.75", 6.25" & 8" diameter (I.D.) sizes. Designed to inflate and fit around vehicle tailpipes from 1 - 6 " in diameter. Made from high temperature synthetic rubber with Nomex Liner.

2. **REDUCING ELBOW -** to 4 " diameter 67 ° chrome reducing elbow. Fabricated from 16 gage steel chrome - plated. Constructed completely of airtight welds.

3. **HOSE BARB -** 8mm fitting incorporated into Grabber construction for filling and deflating Grabber Nozzle.

4. **HOSE CLAMP -** Heavy-duty diameter stainless steel hose clamp. A 5/16 " drive nut for tightening clamp is located on bottom of Grabber opposite yellow label.

5. **WELD JOINT -** Weld on chrome reducer. Must line up with top of Grabber.



PLYMOVENT®
Vehicle Exhaust Ventilation Apparatus

Plymovent Corporation
375 Raritan Center Pkwy
Edison, NJ 08837
Phone: 908-417-0808
Fax: 908-417-1818

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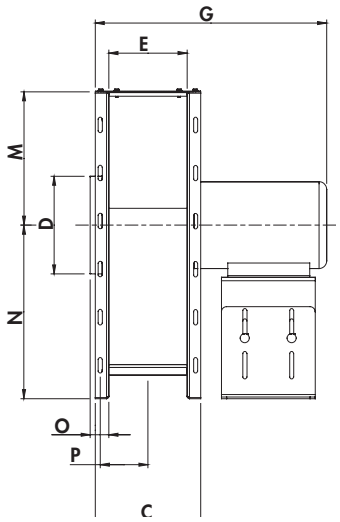
TEV-559
MOTOR
BLOWER

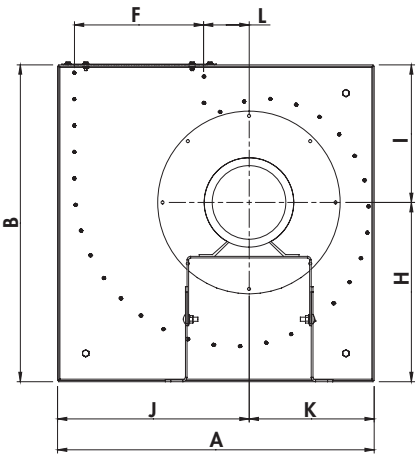
One (1) Fan
5HP, 208-230V, 3 Phase

Model: TEV-559-60

DIMENSIONAL DATA

	mm	inches
A	785	30 7/8
B	785	30 7/8
C	270	10 5/8
D	250	9 13/16
E	200	7 7/8
F	322	12 11/16
G	542	21 11/32
H	444	17 15/32
I	341	13 7/16

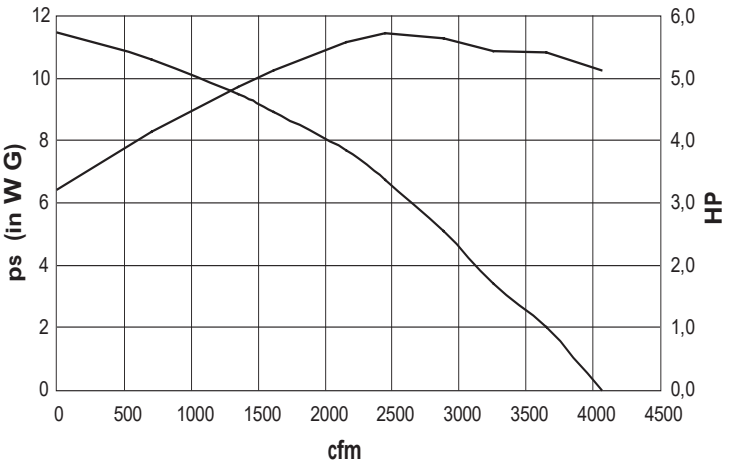




Plymovent reserves the right to make design and technical changes.

	mm	inches
J	475	18 11/16
K	310	12 7/32
L	112	4 13/32
M	341	13 7/16
N	444	17 15/32
O	25	1
P	119	4 11/16

TECHNICAL DATA



Fan specifications

Construction:	AMCA Type - B
Drive type:	Direct drive
Impeller type:	Backward incline
Impeller material:	Aluminum
Impeller diameter:	16.3 inch
Impeller width:	2.32 inch
Hub size:	1 1/8 inch
Discharge style:	Rotational 90°
Shaft seal:	Rubber
Housing material:	Galvanized steel
Housing finish:	Epoxy powder coat
Total fan weight:	175 lbs

Motor specifications

Frame size:	NEMA 184TC
Motor type:	TEFC (IP 55)
Rated output:	5.0 HP
Thermal protection:	No
CSA:	Yes
CE-listed:	Yes
Continuous duty	104°F/40°C
3 phase motor	
Voltage	208-230/460/575 V
Full load current:	13.5-12.2/6.1/4.7A
Motor RPM	3480
Service factor	1.25

Performance shown is for installation type D: Ducted inlet, Ducted outlet.
Performance ratings do not include the effects of appurtenance in the airstream.
Performance measured at a speed of 3500 RPM and the effeciency of the motor.

Electrical power is available for all international electrical power sources.

SOUND POWER DATA

Speed	Pressure in wg	Octave Band (Hz) 63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	LwA
3500	0	105	104	99	96	92	92	88	83	99
3500	1	106	105	101	97	92	91	87	81	100
3500	2	107	106	102	98	93	90	86	80	100
3500	3	107	106	102	97	92	89	85	79	100
3500	4	107	106	101	97	91	89	84	78	99
3500	5	106	106	101	96	91	88	83	78	99

Performance shown is for installation type D: Ducted inlet, Ducted outlet. The sound power level ratings shown are in decibels, referred to 10-12 watts calculated per AMCA standard 301. Values are shown for inlet LwiA sound power levels for installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

PLYMOVENT®

Plymovent representative

TIN_TEV-559-60_081216_USCA

ELECTRICAL INFORMATION

OS-3 Control Box

5HP, 3 Phase

Wiring Details

PLYMOVENT	TECHNICAL DESCRIPTION	BSAB no: T0.7 Ser.no: OS-3 Date: NOV-00 Replace:
BLOWER OPERATING SYSTEM: OS-3	© Copyright 1997 All rights reserved. All information within this printed matter may not be reproduced, translated, copied, scanned or translated into another language in any form or means without written permission from PlymoVent AB. PlymoVent AB reserves the right to make design changes.	



Area of use:

OS-3 is an energy savingcontrol unit, which together with pressure sensor, temp sensor makes a fully automatic system for the control of PlymoVent's vehicle exhaust fans.

Delivery:

The control unit, OS-3, is delivered complete with functions for manual and automatic start/stop of the exhaust fan.

NOTE! The control unit, OS-3, is delivered without cable for fied wiring.Cables for field wiring must apply to UL and NEC.

General information:

OS3 controller is designed to be used for control of exhaust fans in vehicle exhaust system , with or without particle filtration system. The controller can be set for both manual and automatic control of the fan. Depending of system, different sensors for start/stop function, can be used. Mainly two types of sensors will be used; pressure sensor to detect pressure difference in systems and temperature sensors to detect temperature level in the system. The OS3 control box also includes an alarm device, which can be used for status control of the airflow in the exhaust system. A built in “after running time” function will secure that toxic gases in the duct system will be exhausted out of the ducting before the fan stops. The after running time can easily be adjusted between 7 sec. to 5 minutes.

Method of operation:

When the control unit is set into “automatic” position, the exhaust fan is started by a signal from an externally mounted pressure, or/and temperature sensor. Normally the system is activated by the pressure sensor and kept running by the temperature sensor.

Pressure sensor:

The pressure sensor reacts on increasing pressure (positive pressure) which occur in the system when a vehicle is starting up. The pressure sensor is adjustable to fit all engine sizes.

Automatic mode:

When the engine is turned on, the pressure sensor reacts and forward a signal to the control Unit. The control unit is then starting the exhaust fan.
When the engine turns off the pressure in the system decreases and the fan stops after The pre-adjusted after run time is out.

Manual mode:

When the control unit is set in manual position the exhaust fan is running continuously.

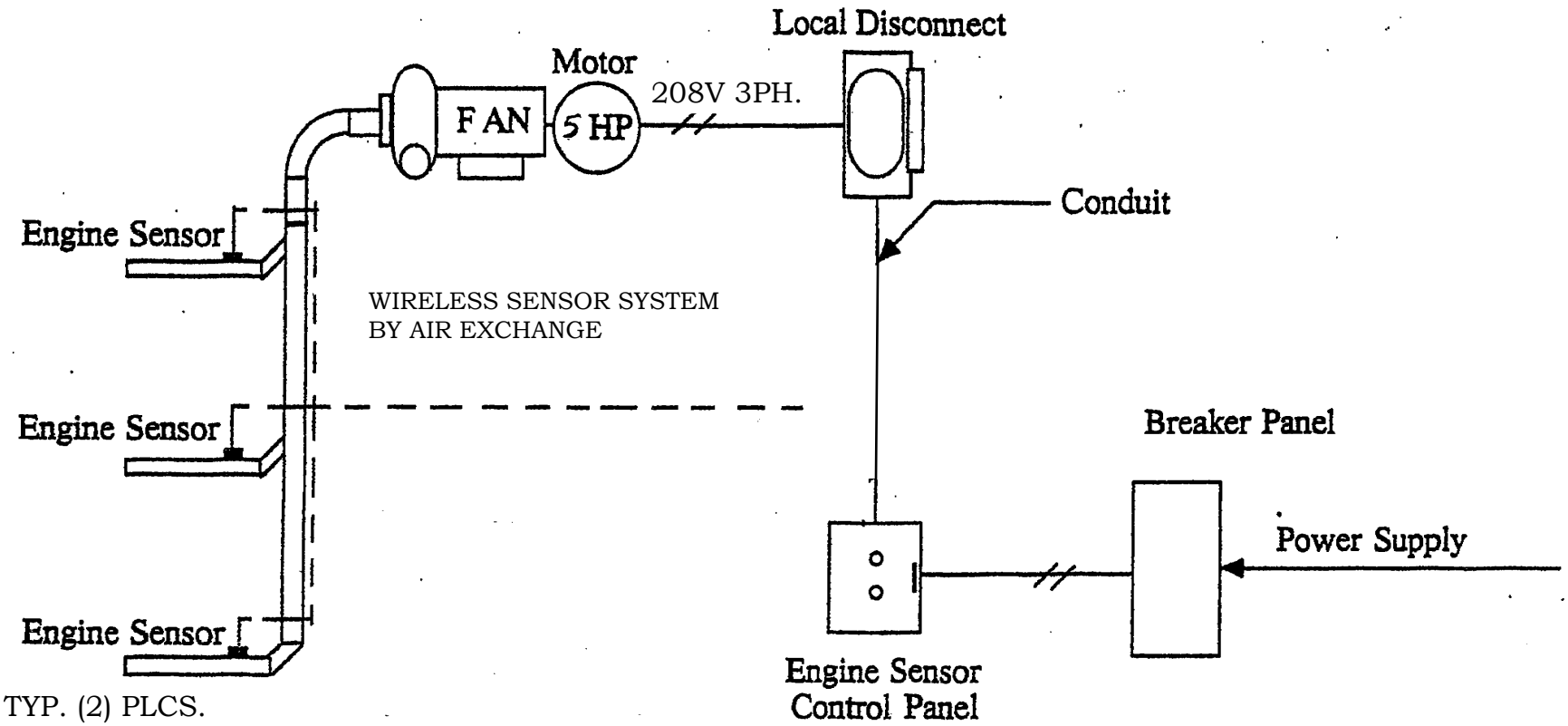
Stop mode:

When pressing the stop button, the fan will stop immediately and after a short period of time 2-3 sec. the controller will move into automatic mode. This built in function will prevent the risk of having exhaust gas leakage in the system due to operator error.

PlymoVent Blower Wire Sizing Chart

PlymoVent Model No.	HP Rating	Voltage	Full Load Amps	Circuit Breaker Size	Number of Conductors	Wire Size THHN AWG Minimum	Conduit Size EMT	Non-fusible Disconnect Sq. D Part No.
Single Phase								
67001	1hp	115V	12A	20A	2	#10	3/4"	DU221RB
		208/230V	6A	15A	2	#14	3/4"	DU221RB
TEV-359-60	2hp	208/230V	15/12A	20A	2	#14	3/4"	DU221RB
TEV-3110-60	3hp	208/230V	16/12.9A	20A	2	#10	3/4"	DU221RB
TEV-559-60	5hp	208/230V	24/20.5A	30A	2	#10	3/4"	DU221RB
TEV-585-60	7:5hp	208/230V	33.3A	50A	2	#8	3/4"	DU222RB
67009	10hp	208/230V	42A	60A	2	#6	3/4"	DU222RB
Three Phase								
TEV-359-60	2hp	208V	6.2A	15A	3	#14	3/4"	DU321RB
		230V	5.6A	15A	3	#14	3/4"	DU321RB
		460V	2.8A	15A	3	#14	3/4"	HU321RB
TEV-3110-60	3hp	208V	10A	15A	3	#14	3/4"	DU321RB
		230V	9A	15A	3	#14	3/4"	DU321RB
		460V	4.5A	15A	3	#14	3/4"	HU321RB
TEV-559-60	5hp	208V	15.5A	20A	3	#10	3/4"	DU321RB
		230V	14A	20A	3	#10	3/4"	DU321RB
		460V	7A	15A	3	#14	3/4"	HU321RB
TEV-585-60	7.5hp	208V	20A	30A	3	#10	3/4"	DU321RB
		230V	18.4A	30A	3	#10	3/4"	DU321RB
		460V	9.2A	15A	3	#14	3/4"	HU321RB
TEV-745-60	10hp	208V	26A	40A	3	#8	3/4"	DU322RB
		230V	23.8A	30A	3	#10	3/4"	DU322RB
		460V	11.9A	20A	3	#12	3/4"	HU321RB

PlymoVent assumes no liability for any electrical installations. This chart was produced as a minimum standard when sizing conductors, and related electrical components.


Local Disconnect
Motor
FAN
5 HP
208V 3PH.
Conduit
Engine Sensor
WIRELESS SENSOR SYSTEM
BY AIR EXCHANGE
Engine Sensor
Breaker Panel
Power Supply
Engine Sensor
Engine Sensor
Control Panel
TYP. (2) PLCS.

APPLIED WIRELESS©
Long Range Wireless Applications

KTX C Series Wire Input Transmitters

303, 433 MHz
Remote Control Transmitter

The Wire-Input transmitter is a modification of the Applied Wireless standard Keyfob Remote Transmitter with the replacement of the keyfob button with wires to attach to remote contacts.
The remote control transmitters in the KTX C Series are FCC Part 15 certified which allows for a quick and cost effective solution to wireless remote control system design and implementation. The transmitter's ID code is preprogrammed at the factory to one of more than 16.7 million possible codes, providing a very high degree of security. The KTXC Series transmitters incorporate a SAW resonator to ensure excellent frequency stability. Power is supplied by a widely available 12-volt alkaline battery (included).

Features

- Compatible with Applied Wireless RCRC-3R Series Code Learning Receivers
- FCC Certified
- Long Range – 300 to 1400 ft[1]
- Highly Secure – More than 16.7 Million Unique Transmitter ID Codes*
- Rugged ABS Case
- Battery Included

Typical Applications

- Industrial ON/OFF Applications
- Motor Control
- Solenoid Control
- Lighting Control
- Access Control
- PLC Activation

Ordering Information

Frequency (MHz)	*Model Number*	*Matching RCR Receiver*
303.825	KTX303C-WIRE-AC	RCR303C-3R
433.920	KTX433C-WIRE-AC	RCR433C-3R

Specifications:

Battery: 12VDC Alkaline, type 23A
Size: 2.41 x 1.45 x 0.53 in. (61.22 x 36.83 x 13.47 mm)

FCC ID: N6PKTX303 (or QY4KTX433)

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference and (2) This device must accept any interference received, including interference that may cause undesired operation.

[1] Unobstructed line of sight range is typically 300-400 feet when used with Applied Wireless RCRC3R Series Remote Control Receiver and its included quarter-wave whip antenna. Optional Dipole and Active (amplified) Dipole receiver antennas are available for increased reception range.

PLYMOVENT®

PRESSURE SWITCH
PROCEDURE

BSAB no: T0.7
Ser.no: OS-3
Date: NOV-00
Replace:

BLOWER OPERATING SYSTEM: OS-3

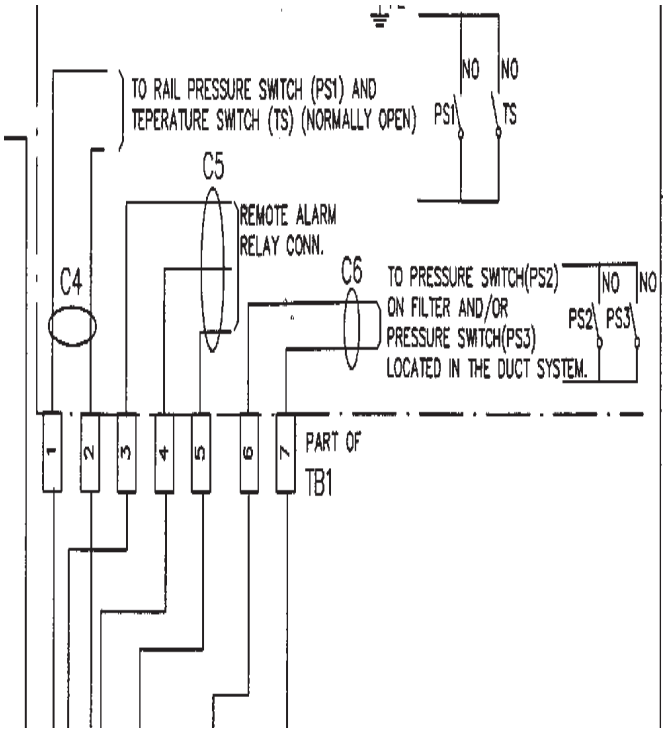
© Copyright 1997: All rights reserved. All information within this printed matter may not be reproduced, handed over, copied, xeroxed or translated into another language in any form or means without written permission from PlymoVent AB. PlymoVent AB reserves the right to make design changes.

1. Pressure switch: PlymoVent has incorporated a pressure switch, which senses the exhaust gas pressure generated by the vehicle. This adjustable pressure switch allows the electrical controller to start the operation of the fan. The pressure switch has an adjustment range from 0.1 spwg/ 25Pa to allows the !e ld installer the ability to adjust the pressure setting.

2. Electrical wiring: The pressure switch utilizes a parallel connection with the temperature sensor, which is connected to terminals 1, and 2 located at terminal block 1 (TB1). Both the pressure and the temperature switch will maintain a normally open position when vehicle is not in operation. NOTE: Electrical wiring providing signal to temperature and pressure sensor must be 14 AWG/1.5 mm² wire size. Control wiring must be done by certi! ed/licensed electrician.

3. Pressure adjustment procedure: The pressure switch allows for ! eld adjustments by placing a screwdriver in the slotted dial in the back of the switch. By turning the dial counter clockwise you will increase the sensitivity and by turning the dial clockwise you will decrease the sensitivity. The recommended setting will be approx. 0.16 spwg/ 40Pa. The pressure setting, may very up or down depending on the vehicles output pressure. To accurately adjust the pressure switch start the vehicle and check that the fan starts immediately, turn off vehicle and the exhaust fan should run for maximum 7 minutes . NOTE: If exhaust fan do not start adjust the pressure switch by turning dial counter clockwise 1/4 turn . If fan starts when the vehicle is not running increase pressure setting on pressure switch by turning dial clockwise 1/4 turn. Consult PlymoVent engineering department for assistance at www.eng.plymovent.com





APPLIED WIRELESS®

Long Range Wireless Applications

RCRC-3R Series

303, 433 MHz
3-Function Remote Control Receiver
(with On-Board 10-Amp Relays)



The RCRC-3R Series remote control receivers are designed to provide a quick and cost effective solution for a variety of wireless applications. The receiver includes an external antenna, decoder and three 10-Amp on-board relays. The receiver offers excellent sensitivity and selectivity by the utilization of SAW technology and state-of-the-art low noise amplifiers. An external jack is provided for external long-range antenna. Units are designed to work with Applied Wireless encoders, as in the KTX-C series models. This is a learning receiver, and can learn up to 4 different coded transmitters.

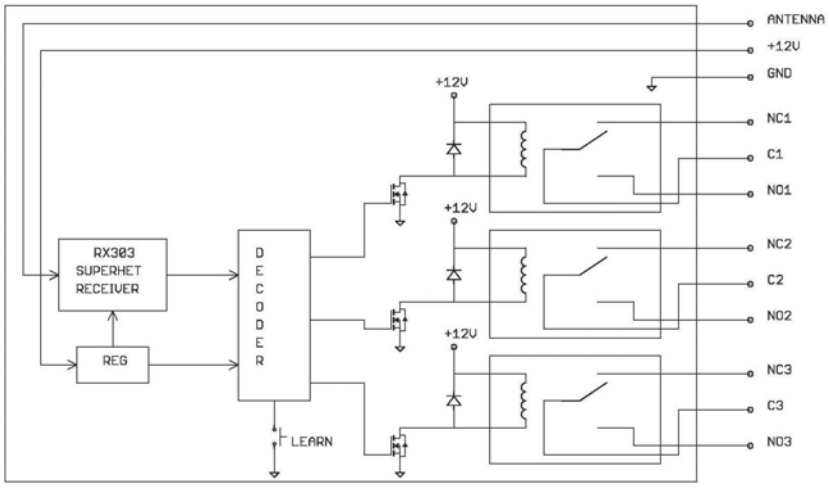
Features

- Matching Transmitters Available
- Three 10-Amp SPDT On-Board Relays
- Long Range – Up to 1000 ft[1]
- Integrated Code-Learning Decoder
- Can Learn up to 4 Transmitter IDs
- 16.7+ Million Unique Transmitter IDs
- Momentary, Latched, or Toggle Operation
- 12-24 Volt DC or AC Operation
- LED Output Activation Indicators

Typical Applications

- Remote Control
- Industrial ON/OFF Applications
- Motor Control
- Solenoid Control
- Lighting Control
- Access Control
- PLC Activation

Block Diagram



[1]Unobstructed line of sight range, when used with a 1/4–wave ground plane antenna. With the included whip antenna, range is 300-400 ft. Optional antennas are available for longer range. See Antenna Options table.

APPLIED WIRELESS©

Long Range Wireless Applications

DP Series Dipoles



300, 400 MHz
Dipole Antenna

The DP300A and DP400A dipole antennas come with a 7-ft. RG-174 cable with Male Phono (RCA) connector. These antennas mate with Applied Wireless RCR series receivers to provide added gain over a standard ¼-wave whip antenna, especially when a ground-plane is not present. The dipole should be mounted vertically for omnidirectional coverage; it may be mounted horizontally for directional coverage. Comes with 3M adhesive for window mounting, or can be screwed to an appropriate surface. Dipoles with different length cables available as custom order.

Features

- Window or Wall Mountable
- 50-Ohm Impedance
- Interfaces with RCR and RCRB3R Series Receivers

Ordering Information

Model	*Frequency (MHz)*
DP300A	303.825 – 315.000
DP400A	418.000 - 433.920

Electrical Characteristics

Sym	Parameter	Min	Typ	Max	Unit
Z	Impedance		50		ohms
	VSWR		2:1		

Maximum Ratings

Sym	Parameter	Value	Unit
P_{in}	Input Power	1	Watt
T_{stg}	Storage Temperature	-50 to +150	C

SUBMITTAL NOTE SHEET

ELECTRICAL HOOK-UP

Electrical by others. Including conduit, wiring and connections.
Wireless pressure sensor system by Air Exchange.

COMPRESSED AIR CONNECTION

Air Exchange to be provided with one (1) point of connection.
Air Exchange will install 8mm tubing from ¼" connection point to Plymovent systems

MANAGEMENT SYSTEM CERTIFICATE

Certificate no.:
39388-2008-AQ-USA-ANAB

Initial certification date:
25 September, 2008

Valid:
26 September, 2023 – 25 September, 2026

This is to certify that the management system of

Plymovent Corporation

5 Corporate Drive, Cranbury, NJ, 08512, USA

has been found to conform to the Quality Management System standard:

ISO 9001:2015

This certificate is valid for the following scope:

The Assembly, Distribution and Sales of Engineered Exhaust Extraction Air Filtration Systems.

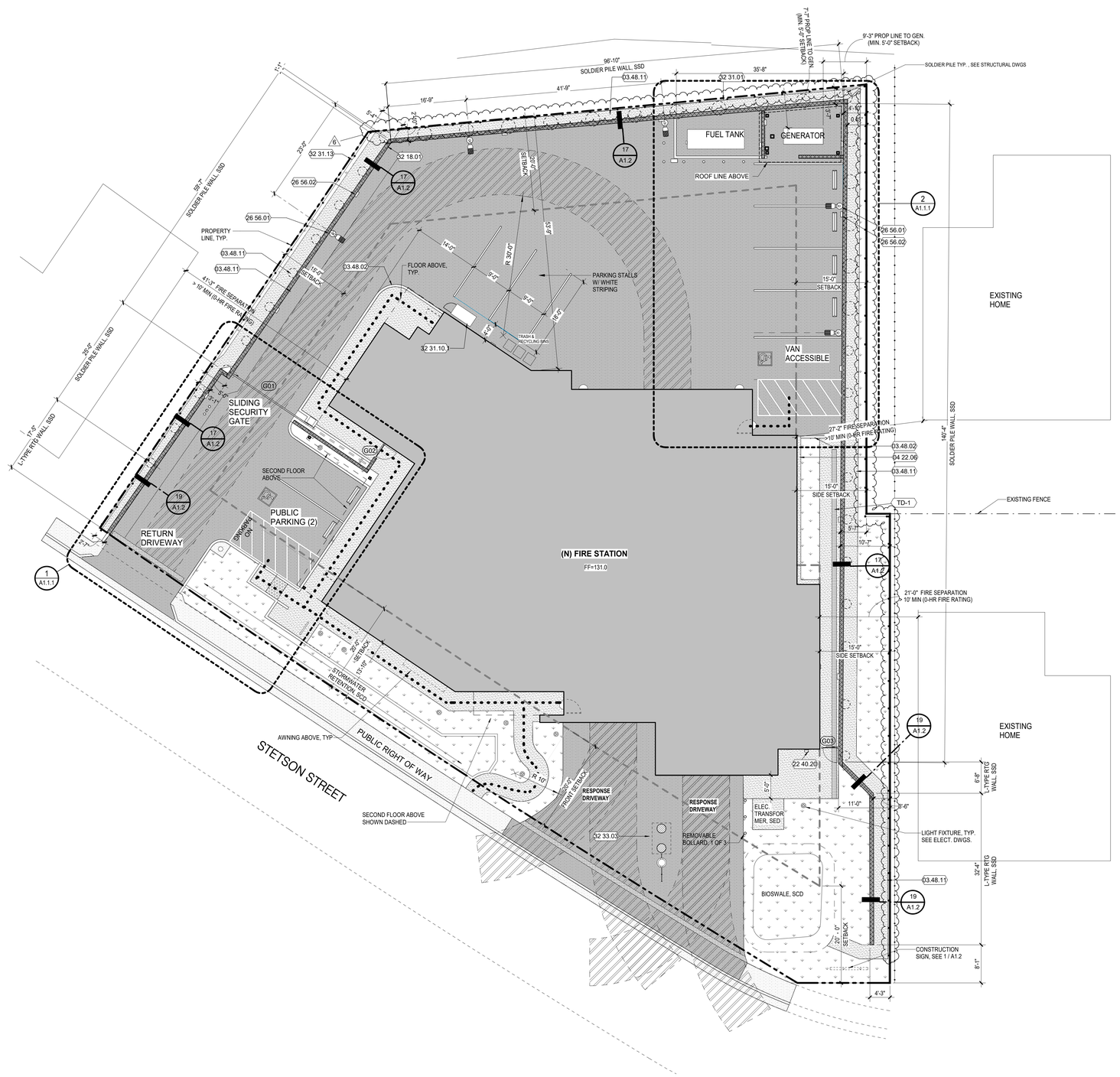
Place and date:
Katy, TX, 22 September, 2023

For the issuing office:
DNV - Business Assurance
1400 Ravello Drive, Katy, TX, 77449-5164, USA

Sherif Mekkawy
Management Representative

Lack of fulfilment of conditions as set out in the Certification Agreement may render this Certificate invalid.

A1.1.0 - PROPOSED SITE PLAN



KEYNOTES

03.48.02	6" CONCRETE CURB, SEE CIVIL DRAWINGS
03.48.11	CONCRETE V-SWALE, SEE CIVIL DRAWINGS
04 22.06	MOW STRIP, SEE DETAIL 1/A1.3
22 40.20	GAS METER, SEE PLUMBING DWGS.
26 56.01	EXTERIOR POLE MOUNT LIGHT FIXTURE FOR EMERGENCY OPERATIONS ONLY, ON +3'-6" HT. CONC. BASE, KEY SWITCH OPERATED, DIMMABLE W/ SHUTOFF TIMER, SED
26 56.02	EXTERIOR WALL MOUNT LIGHT FIXTURE FOR NORMAL NON-EMERGENCY OPERATIONS, WARM LIGHT, KEY SWITCH OPERATED & DIMMABLE, SED
32 18.01	RETAINING WALL VARIES IN HEIGHT, SEE CIVIL & 'SS' STRUCTURAL DRAWINGS
32 31.01	(N) WOOD FENCING, SEE DETAIL 9 / A1.3
32 31.10.1	LOCKEABLE BIKE LOCKER, SEE SPECS
32 31.13	CONSTRUCTION SIGN, SEE DETAIL *
32 33.03	SAND AND OIL INTERCEPTOR, SEE PLUMBING DRAWINGS
TD-1	TRENCH DRAIN, SEE PLUMBING DWGS.

GATE SCHEDULE

MARK	TYPE	DIMENSIONS	DETAIL REFERENCE
G01	SLIDING SECURITY GATE	16' W x 6' H	13/A1.3
G02	SWING GATE	3' W x 6' H	10/A1.3
G03	SWING GATE	3' W x 6' H	10/A1.3

G01 – ROLLING SECURITY GATE

All material provided by Rolling Security Gate Manufacturer.

G02 & G03 – SINGLE GATE HARDWARE

1 SET – Gate Hinge/Closer: MAMMOTH-180 (BLK)
1 – Latchset: ND10S x SPA (626) (SCH)
1 – Gate Box: K-BXRHO (600) (KEE)

Note: Balance of material provided by Tube Steel Gate Manufacturer.

6

SITE INFORMATION

1. SITE AREA	21,236 SF (0.487 ACRES)
2. BUILDING AREA:	
A. FIRST FLOOR-	7,025 SF (33.08% COVERAGE)
B. SECOND FLOOR-	3,375 SF
3. PAVED AREAS:	11,581 SF (54.53% COVERAGE)

LIGHTING NOTE

ALL EXTERIOR NORMAL NON-EMERGENCY LIGHTS TO BE DOWNWARD DIRECTED, KELVIN RATING NOT TO EXCEED 3000K , TO BE CHECKED AT FINAL OCCUPANCY INSPECTION.

SITE PARKING ANALYSIS

PARKING CALCULATIONS (BASED ON 2022 CBC & CALGREEN)

VISITOR PARKING	2	TOTAL PARKING SPACES
	1	STANDARD SPACE
	1	VAN ACCESSIBLE SPACE (1 REQ'D PER CBC TABLE 11B-207.2 & SECT 11B-208.2.4)
		PER TABLE 5.106.5.3.1:
	0	NUMBER OF REQUIRED EV CAPABLE SPACES
STAFF PARKING	7	TOTAL PARKING SPACES
		PER TABLE 5.106.5.3.1:
	0	NUMBER OF REQUIRED EV CAPABLE SPACES

SITE PLAN NOTES

1. REFER TO CIVIL DOCUMENTS FOR GRADING & UTILITY INFORMATION, SEE SHEET C4 & C5
2. COORD. ALL SPOT ELEVATIONS AND DIMENSIONS WITH CIVIL, LANDSCAPE, AND OR STRUCTURAL DOCUMENTS
3. PROVIDE AND INSTALL POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS OF 1 % MINIMUM, 2 % MAXIMUM AT ALL EXTERIOR PAVED PEDESTRIAN AREAS, INCLUDING BUT NOT LIMITED TO, SIDEWALKS, PATIOS, STAIRS, PAVING, U.N.O.
4. PROVIDE AND INSTALL POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS OF 5 % FOR A HORIZ. DISTANCE OF 10 FEET AT ALL EXTERIOR NON-PAVED AREAS U.N.O
5. REFER TO CIVIL DOCUMENTS FOR CONCRETE SIDEWALK EXPANSION JOINTS AND CONCRETE SIDEWALK CONTROL JOINTS
6. VERIFY AND CONFIRM ALL JOINT LAYOUTS AT ALL CONCRETE SIDEWALKS WITH ARCH. PRIOR TO POURING OF CONCRETE
7. PROVIDE AND INSTALL CONCRETE SIDEWALK EXPANSION JOINTS AT AREAS NOT SPECIFICALLY INDICATED AT 50 FEET ON-CENTER MAX. U.N.O.
8. PROVIDE AND INSTALL CONCRETE SIDEWALK CONTROL JOINTS AT AREAS NOT SPECIFICALLY INDICATED AT DISTANCES EQUIVALENT TO SIDEWALK WIDTH, BUT NOT TO EXCEED 10 FEET ON-CENTER MAX.
9. VERIFY ALL SITE SIGNAGE LOCATIONS WITH ARCH. PRIOR TO INSTALLATION OF SITE SIGNAGE

SITE PLAN LEGEND

- CONCRETE (SIDEWALK) - 4" P.C.C. OVER 4" AB - #3 REBAR, 18" O.C. EA. WAY, PER SEC. 6.8.4 OF GEOTECH REPORT
- HEAVY TRAFFIC CONCRETE - 8" P.C.C. OVER 12" A.B. - #3 REBAR, 18" O.C. EA. WAY, PER SEC. 6.10.3 & 6.10.5 OF GEOTECH REPORT
- LANDSCAPED AREA, SEE LANDSCAPE DWGS.
- FIRE HYDRANT, SEE CIVIL DWGS
- BUILDING FOOTPRINT
- FIRE DEPARTMENT CONNECTION
- FIRE ACCESS LANE
- BUILDING ID SIGN
- CONC. RETAINING WALL, SEE 19 / A1.2 & RETAINING WALL DWGS
- 8" CMU WALL, SEE DETAIL 11 / A1.3
- PROPERTY LINE
- PROPOSED (N) WOOD FENCING SEE 7 / A1.3, 9 / A1.3 & 19 / A1.2
- POST LOCATIONS
- ACCESSIBLE PATH OF TRAVEL TO BE MIN. 4' WIDE WITH MAX X-SLOPE OF 1.98% & RUNNING SLOPE OF MAX 5%
- LIGHT FIXTURES, SEE ELECTRICAL DRAWINGS
- (E) WOOD FENCE, VARIES IN HEIGHT

1 PROPOSED SITE PLAN
SCALE: 1" = 10'-0"

10/23/2026 6:13:59 PM

PBK

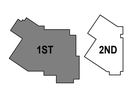
ARCHITECT PBK Architects, Inc.
PBK.com
SAN LUIS OBISPO
408 Higuera Street, Ste 100
San Luis Obispo, CA 93401
805-329-3076

FIRE STATION #44
COASTSIDE FIRE PROTECTION DISTRICT

501 STETSON STREET
MOSS BEACH, CA 94038
PLAN CHECK 02 RESPONSE

COASTSIDE FIRE PROTECTION DISTRICT

PLAN CHECK 02 RESPONSE



KEY PLAN — PLAN NORTH / TRUE NORTH

CLIENT
COASTSIDE FIRE PROTECTION DISTRICT
PROJECT NUMBER
230137
DATE 03/13/2026
DRAWN BY: KF/OS CHKED BY: AD

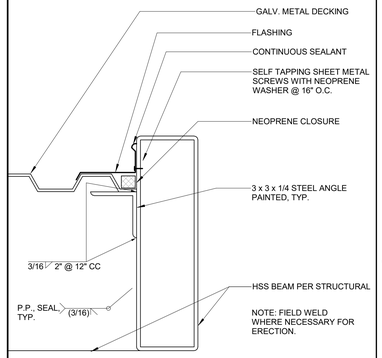
REVISIONS

#	DESCRIPTION	DATE
1	PLANCHECK #1 RESPONSE	12/11/25
3	PLANCHECK #2 RESPONSE	03/13/26
4	NON-PC REVISION	03/13/26
5	PLANCHECK #3 RESPONSE	05/22/2026
6	ADDENDUM 6	10/23/2026

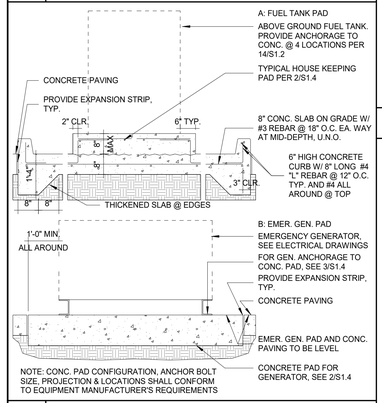
This document is for plan review only

PROPOSED SITE PLAN

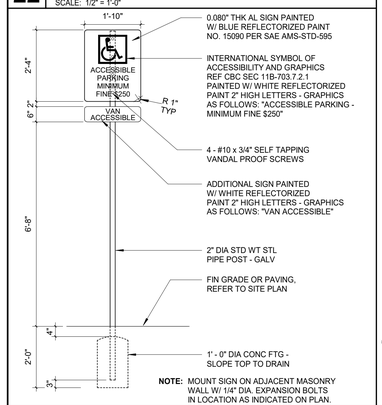
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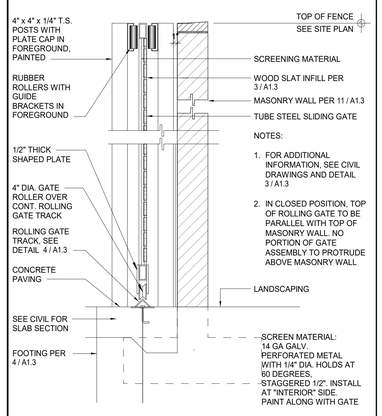
21 GENERATOR ENCLOSURE CANOPY RAKE
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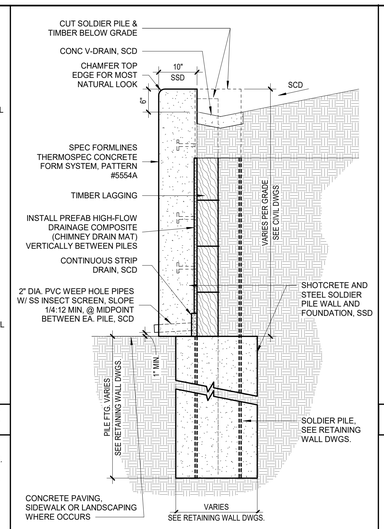
22 FUEL TANK + GENERATOR PAD
SCALE: 1/2" = 1'-0"



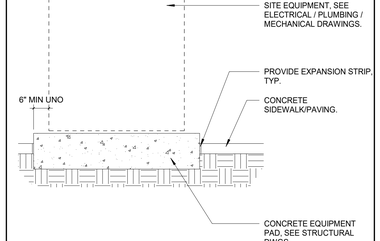
23 ACCESSIBLE PARKING SIGN
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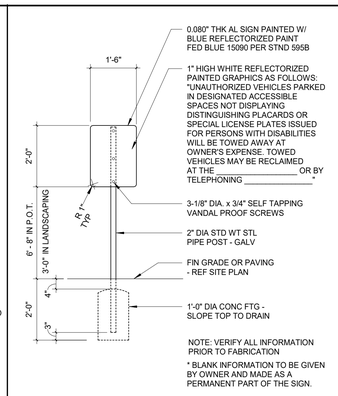
24 WALL AT GATE
SCALE: 3/4" = 1'-0"



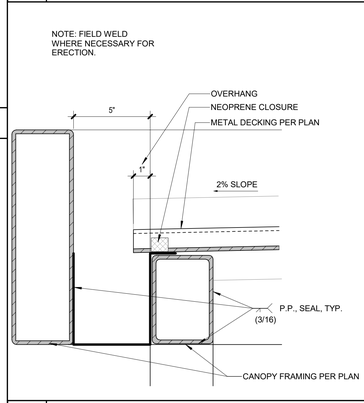
17 SOLDIER PILE RETAINING WALL
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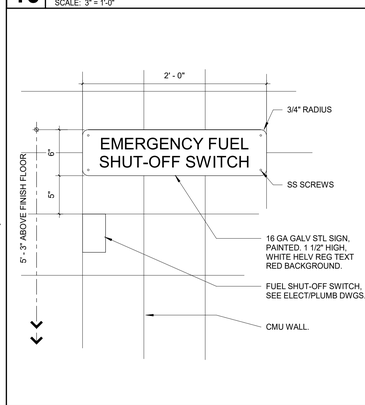
19 L-TYPE RETAINING WALL
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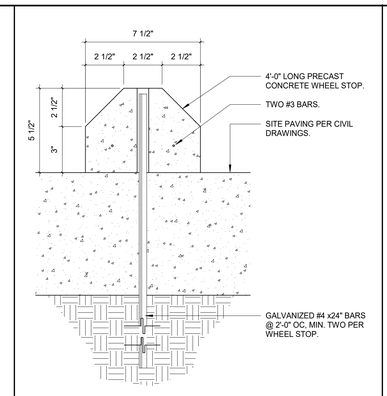
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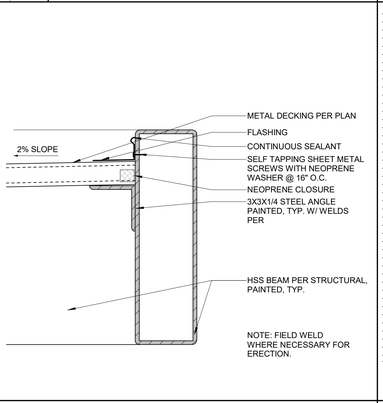
10 GENERATOR ENCLOSURE CANOPY EAVE
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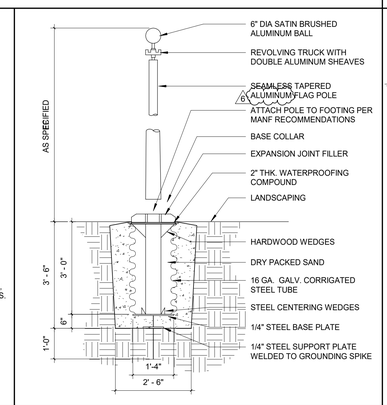
15 EMERGENCY SHUTOFF SIGN
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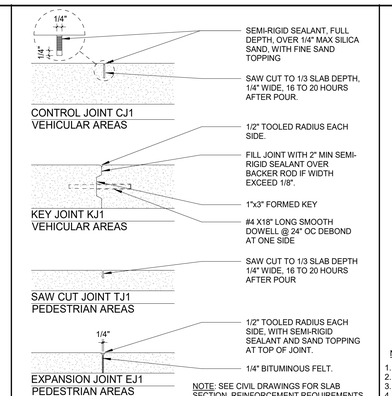
9 CONC WHEEL STOP
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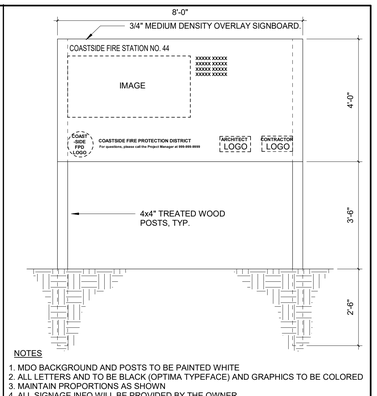
11 NO SMOKING SIGNAGE
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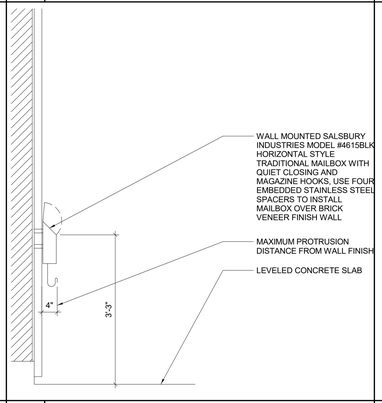
11 FLAGPOLE
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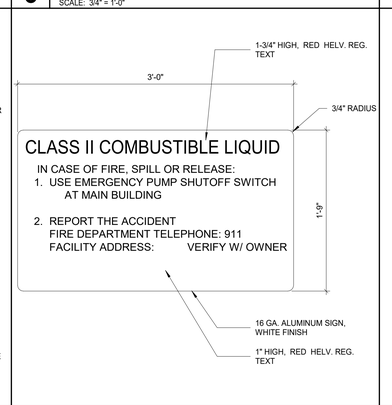
5 CONCRETE JOINTS
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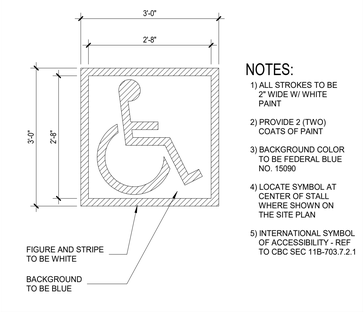
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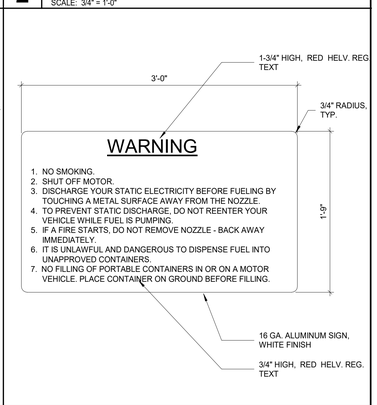
6 MAIL BOX
SCALE: 3/4" = 1'-0"



7 COMBUSTIBLE LIQUID SIGN
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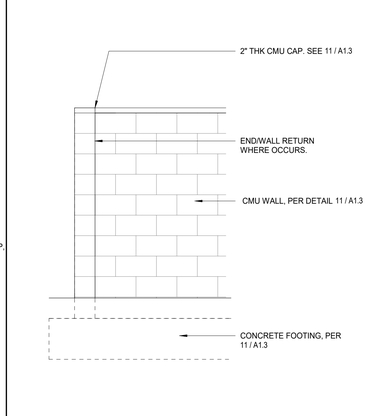


2 ACCESS SYMBOL
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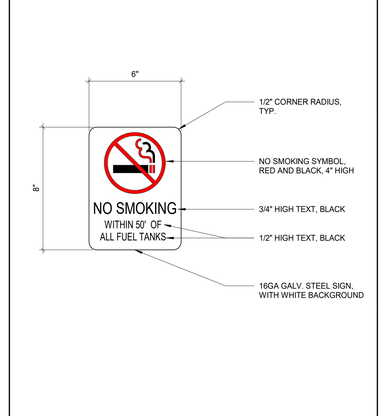


3 FUEL TANK WARNING SIGN
SCALE: 1 1/2" = 1'-0"

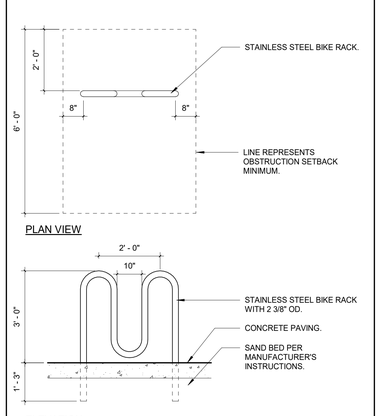
20 TYP. EQUIPMENT PAD
SCALE: 1/2" = 1'-0"



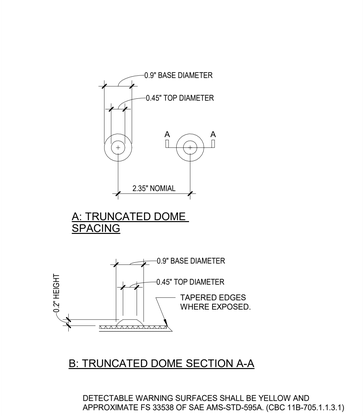
16 TYP SITEWALL ELEV
SCALE: 1/2" = 1'-0"



12 NO SMOKING SIGNAGE
SCALE: 3" = 1'-0"



8 BIKE RACK
SCALE: 1/2" = 1'-0"



4 2.1/4 TRUNC. DOME SPACING
SCALE: 6" = 1'-0"

PBK
ARCHITECT PBK Architects, Inc.
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SAN LUIS OBISPO
408 Higuera Street, Ste 100
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805-329-3076

FIRE STATION #44
COASTSIDE FIRE PROTECTION DISTRICT

501 STETSON STREET
MOSS BEACH, CA 94038
PLAN CHECK 02 RESPONSE

COASTSIDE FIRE PROTECTION DISTRICT

PLAN CHECK 02 RESPONSE



KEY PLAN
PLAN NORTH
TRUE NORTH

CLIENT
COASTSIDE FIRE PROTECTION DISTRICT
PROJECT NUMBER
230137
DATE 03/13/2026
DRAWN BY: KF/OS CHKED BY: AD

REVISIONS

#	DESCRIPTION	DATE
1	PLANCHECK #1 RESPONSE	12/11/25
6	ADDENDUM 6	10/23/2026

SITE DETAILS

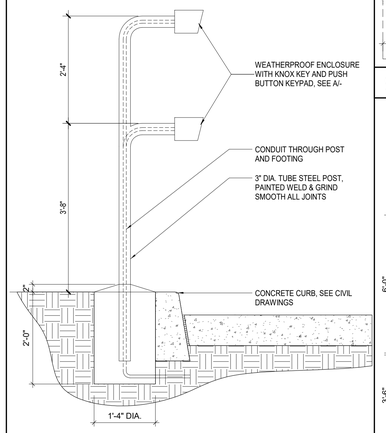
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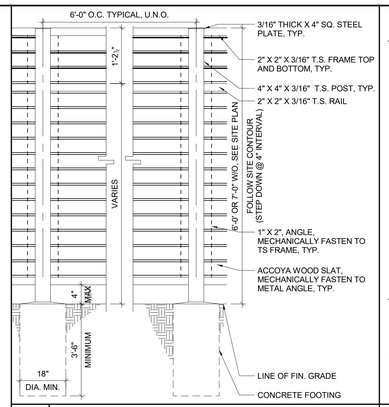
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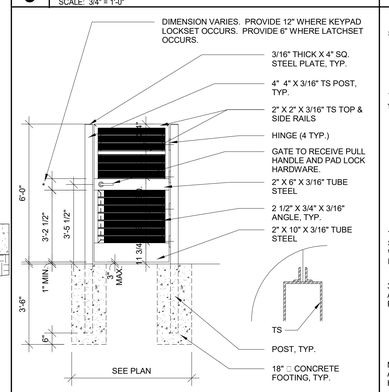
14 KEYPAD
SCALE: 3/4" = 1'-0"



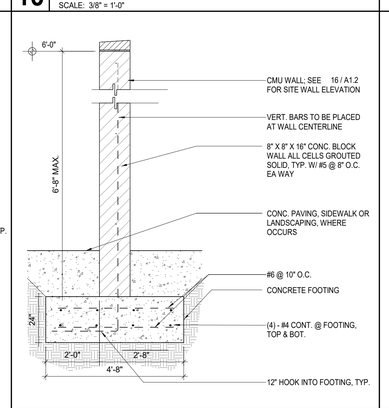
15 EXTERIOR COLUMN DETAIL
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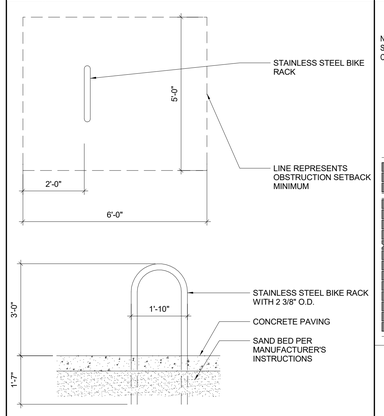
9 T.S. FENCING W/ WOOD SLAT INFILL
SCALE: 3/4" = 1'-0"



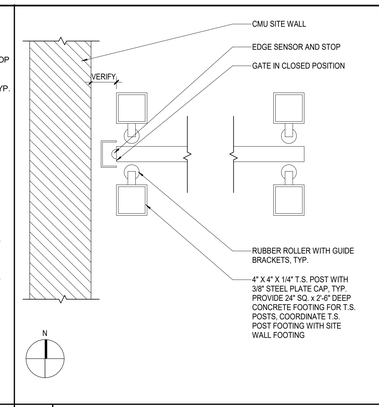
10 T.S. GATE
SCALE: 3/8" = 1'-0"



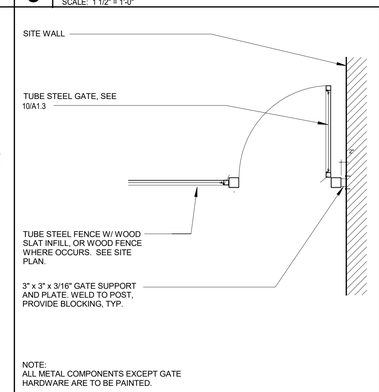
11 SITE CMU WALL
SCALE: 3/4" = 1'-0"



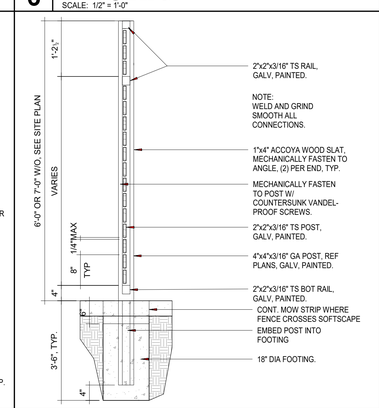
12 STAINLESS STEEL BICYCLE RACK
SCALE: 1/2" = 1'-0"



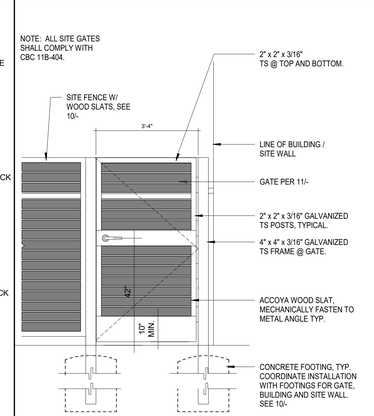
5 SLIDING SECURITY GATE STOP
SCALE: 1 1/2" = 1'-0"



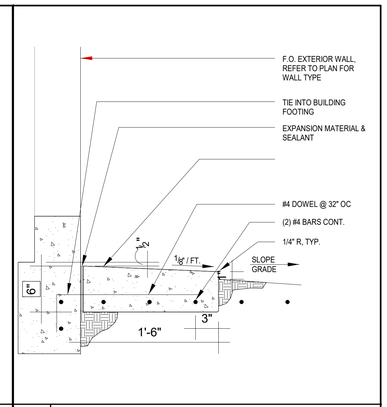
6 GATE @ BLDG
SCALE: 1/2" = 1'-0"



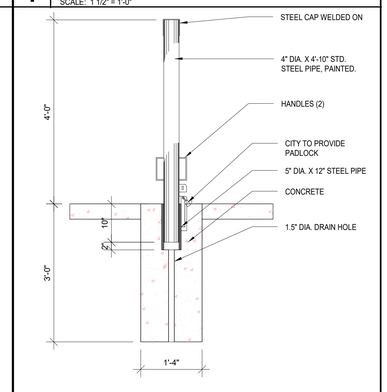
7 WOOD SLAT FENCE SECTION
SCALE: 3/4" = 1'-0"



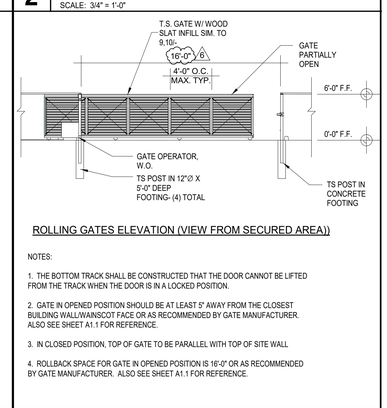
8 SITE GATE ELEVATION
SCALE: 1/2" = 1'-0"



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



2 REMOVEABLE BOLLARD
SCALE: 3/4" = 1'-0"

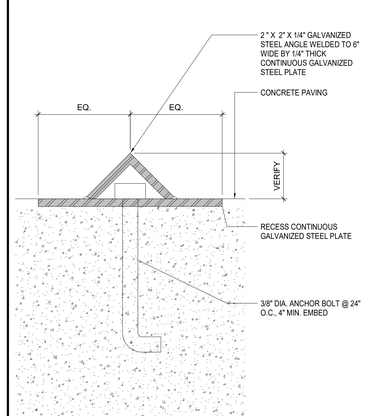


ROLLING GATES ELEVATION (VIEW FROM SECURED AREA))

NOTES:

1. THE BOTTOM TRACK SHALL BE CONSTRUCTED THAT THE DOOR CANNOT BE LIFTED FROM THE TRACK WHEN THE DOOR IS IN A LOCKED POSITION.
2. GATE IN OPENED POSITION SHOULD BE AT LEAST 5' AWAY FROM THE CLOSEST BUILDING WALL/WAINSCOT FACE OR AS RECOMMENDED BY GATE MANUFACTURER. ALSO SEE SHEET A1.1 FOR REFERENCE.
3. IN CLOSED POSITION, TOP OF GATE TO BE PARALLEL WITH TOP OF SITE WALL.
4. ROLLBACK SPACE FOR GATE IN OPENED POSITION IS 16'-0" OR AS RECOMMENDED BY GATE MANUFACTURER. ALSO SEE SHEET A1.1 FOR REFERENCE.

3 SLIDING SECURITY GATE ELEVATION
SCALE: 1/8" = 1'-0"



4 ROLLING GATE TRACK
SCALE: 6" = 1'-0"

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FIRE STATION #44
COASTSIDE FIRE PROTECTION DISTRICT

501 STETSON STREET
MOSS BEACH, CA 94038
PLAN CHECK 02 RESPONSE

PLAN CHECK 02 RESPONSE

1ST 2ND
KEY PLAN
PLAN NORTH TRUE NORTH

CLIENT
COASTSIDE FIRE PROTECTION DISTRICT
PROJECT NUMBER
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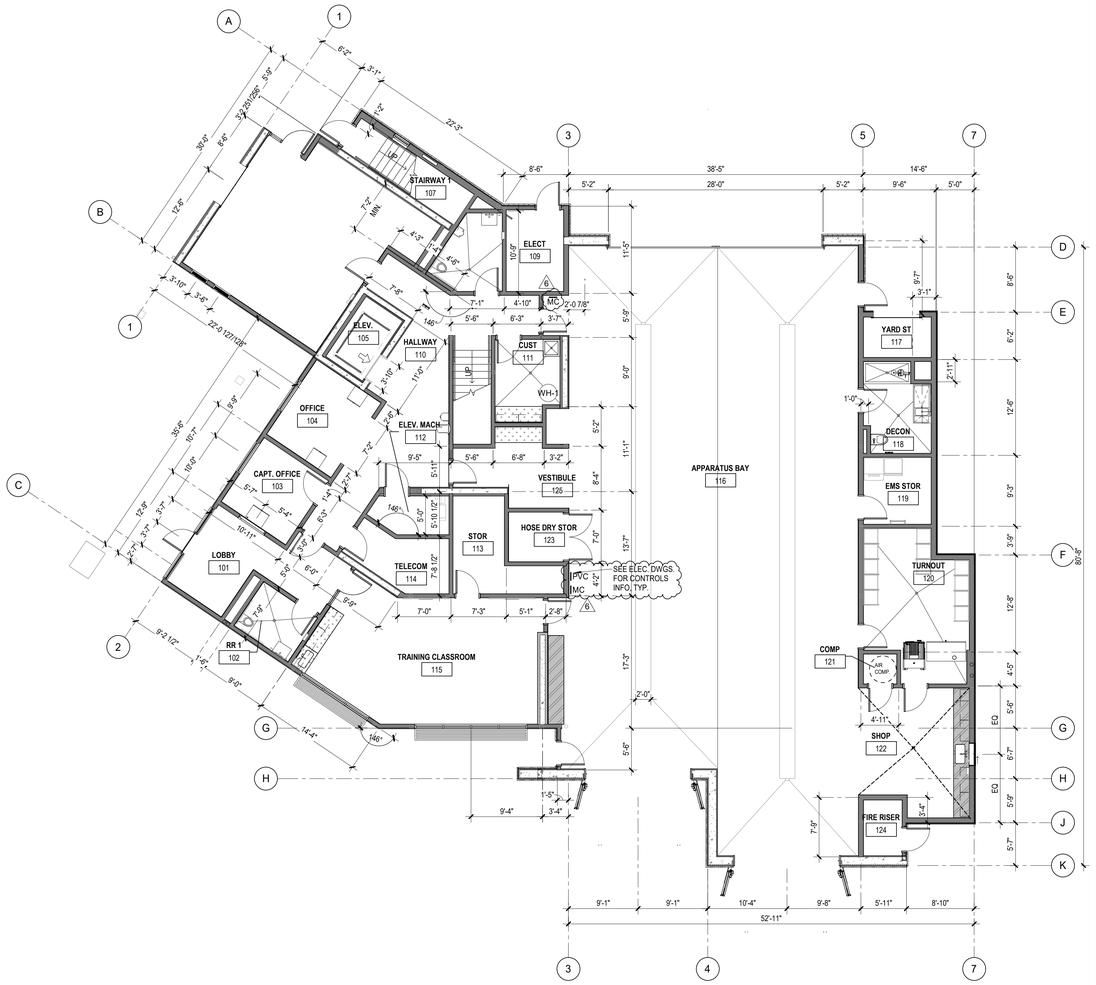
REVISIONS

#	DESCRIPTION	DATE
6	ADDENDUM 6	10/23/2026

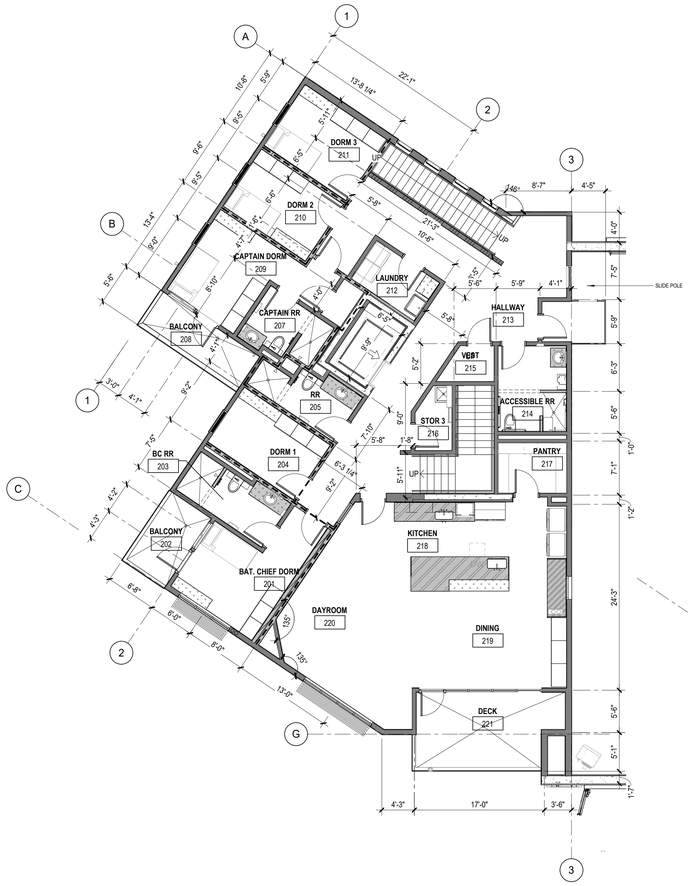
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SITE DETAILS

A1.3



FIRST FLOOR GROSS AREA = 6,612 SF



SECOND FLOOR GROSS AREA = 3,566 SF

1 FIRST FLOOR DIMENSION PLAN

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

ROOM SCHEDULE FIRST FLOOR

Name	Number	Area
LOBBY	101	172 SF
RR 1	102	58 SF
CAPT. OFFICE	103	101 SF
OFFICE	104	122 SF
ELEV.	105	55 SF
FITNESS	106	488 SF
STAIRWAY 1	107	84 SF
RR 2	108	74 SF
ELECT	109	79 SF
HALLWAY	110	377 SF
CUST	111	86 SF
ELEV. MACH.	112	47 SF
STOR	113	113 SF

ROOM SCHEDULE FIRST FLOOR

Name	Number	Area
TELECOM	114	84 SF
TRAINING CLASSROOM	115	476 SF
APPARATUS BAY	116	2,863 SF
YARD ST	117	46 SF
DECON	118	94 SF
EMS STOR	119	76 SF
TURNOUT	120	235 SF
COMP	121	17 SF
SHOP	122	225 SF
HOSE DRY STOR	123	46 SF
FIRE RISER	124	36 SF
VESTIBULE	125	115 SF
STAIRWAY 2	126	129 SF

2 SECOND FLOOR DIMENSION PLAN

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

ROOM SCHEDULE SECOND FLOOR

Name	Number	Area
BAT. CHIEF DORM	201	168 SF
BALCONY	202	65 SF
BC RR	203	83 SF
DORM 1	204	115 SF
RR	205	73 SF
ELEV	206	55 SF
CAPTAIN RR	207	66 SF
BALCONY	208	73 SF
CAPTAIN DORM	209	167 SF
DORM 2	210	114 SF
DORM 3	211	123 SF
LAUNDRY	212	59 SF
HALLWAY	213	592 SF
ACCESSIBLE RR	214	95 SF
VEST	215	28 SF
STOR 3	216	36 SF
PANTRY	217	59 SF
KITCHEN	218	281 SF
DINING	219	159 SF
DAYROOM	220	342 SF
DECK	221	159 SF
SLIDE POLE DECK	222	69 SF

KEYNOTES

FLOOR PLAN LEGEND

- 123 — ROOM NUMBER
- CASEWORK; AS PER SCHEDULE AND DETAILS ON SHEET A10.4 AND A10.5
- 42" HIGH WALL
- 106B — DOOR DESIGNATION
- A — WINDOW DESIGNATION
- 1-HR RATED WALL, (MIN. 50 STC AT DORM ROOMS): 6" WOOD STUDS @ 16" O.C., WITH ONE LAYER OF 5/8" TYPE X GYPSUM BOARD EACH SIDE, FROM TOP OF FOUNDATION/ TOP OF SLAB TO UNDERSIDE OF ROOF DECK. REF. UL 309, U341 . SEE 10 / A9.3 FOR WALL PENETRATION DETAILS.
- 60" — PARTITION TYPE *REFER TO SHEET* **A9.3** *FOR DEFINITION*
- PROVIDE IDENTIFICATION MARK IN 3" HIGH TEXT TO READ "FIRE BARRIER/ FIRE PARTITION - PROTECT ALL OPENINGS" IN ATTIC SPACE AT INTERVAL NOT EXCEEDING 30 FEET AND WITHIN 15 FEET OF THE END OF EACH WALL ALONG BOTH SIDES OF THE WALL. PAINTED RED. 2022 CBC, SECTION 703.3., SEE SIGNAGE SCHED. ON 8 / A9.7
- CONCRETE SHEAR WALL. SEE STRUCT. DWGS FOR WALL THICKNESS & EXTENT. PROVIDE FURRING STRIPS WITH ONE LAYER OF 5/8" GYPSUM BOARD EACH SIDE, PAINTED. SEE STRUCTURAL DWGS.
- 2x FLAT FURRING STRIPS WITH ONE LAYER OF 5/8" GYPSUM BOARD, PAINTED. SEE A9.3
- 2x4 FURRING WITH ONE LAYER OF 5/8" GYPSUM BOARD, PAINTED.
- 6" WOOD STUDS @ 16" O.C.; AT INTERIOR LOCATIONS PROVIDE ONE LAYER OF 5/8" GYPSUM BOARD EACH SIDE, PAINTED. AT EXTERIOR LOCATIONS PROVIDE ONE LAYER OF 5/8" GYPSUM BOARD AT INTERIOR SIDE, PAINTED, AND ON EXTERIOR SIDE, U.N.O.
- STONE VENEER WAINSCOT FINISH OVER BROWNCOAT, SEE DETAIL 15 / A9.1
- FIRE EXTINGUISHER CABINET, SEE DETAIL 13 / A10.2

GENERAL FLOOR PLAN NOTES

1. DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE, CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS
2. DRAWINGS NOTED AS "N.T.S" OR "NTS" ARE NOT TO SCALE
3. ALL DIMENSIONS ARE TO STRUCTURAL COLUMN LINES OR THE SURFACE OF PARTITION ASSEMBLY U.N.O.
4. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITION BEFORE COMMENCING WORK. NOTIFY ARCH. OF ANY DISCREPANCIES PRIOR TO PROCEEDIN WITH AFFECTED WORK
5. NOTES OR DIMENSIONS NOTED AS "TYPICAL" OR "TYP." OR "TYP" SHALL APPLY TO CONDITIONS THAT ARE THE SAME OR SIMILAR
6. DIMENSIONS NOTED AS "FIELD VERIFY" OR "V.I.F." OR "VIF" SHALL BE MEASURED AND CONFIRMED AT THE PROJECT SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCH. BEFORE INCORPORATING INTO THE WORK
7. DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS
8. REFER TO PARTITION TYPES ON A9.3
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10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE B U.N.O.
11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE
12. ALL DOORS SHALL BE SET 6 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS
13. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT
14. COORD. ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION
15. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48
16. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES
17. COORD. HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED
18. ALL FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS U.N.O.
19. ALL FLOOR FINISH MATERIAL CHANGES SHALL HAVE REDUCER STRIPS
20. ALL REQUIRED ACCESSIBLE CLEARANCES FOR ALL ITEMS, INCLUDING BUT NOT LIMITED TO ALL COUNTER TOPS, ALL PLUMBING FIXTURES, ALL DRINKING FOUNTAINS, ALL ELECTRIC WATER COOLERS, ALL LAVATORIES, ALL URINALS, ALL TOILETS SHALL BE STRICTLY ENFORCED
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KEY PLAN — PLAN NORTH — TRUE NORTH

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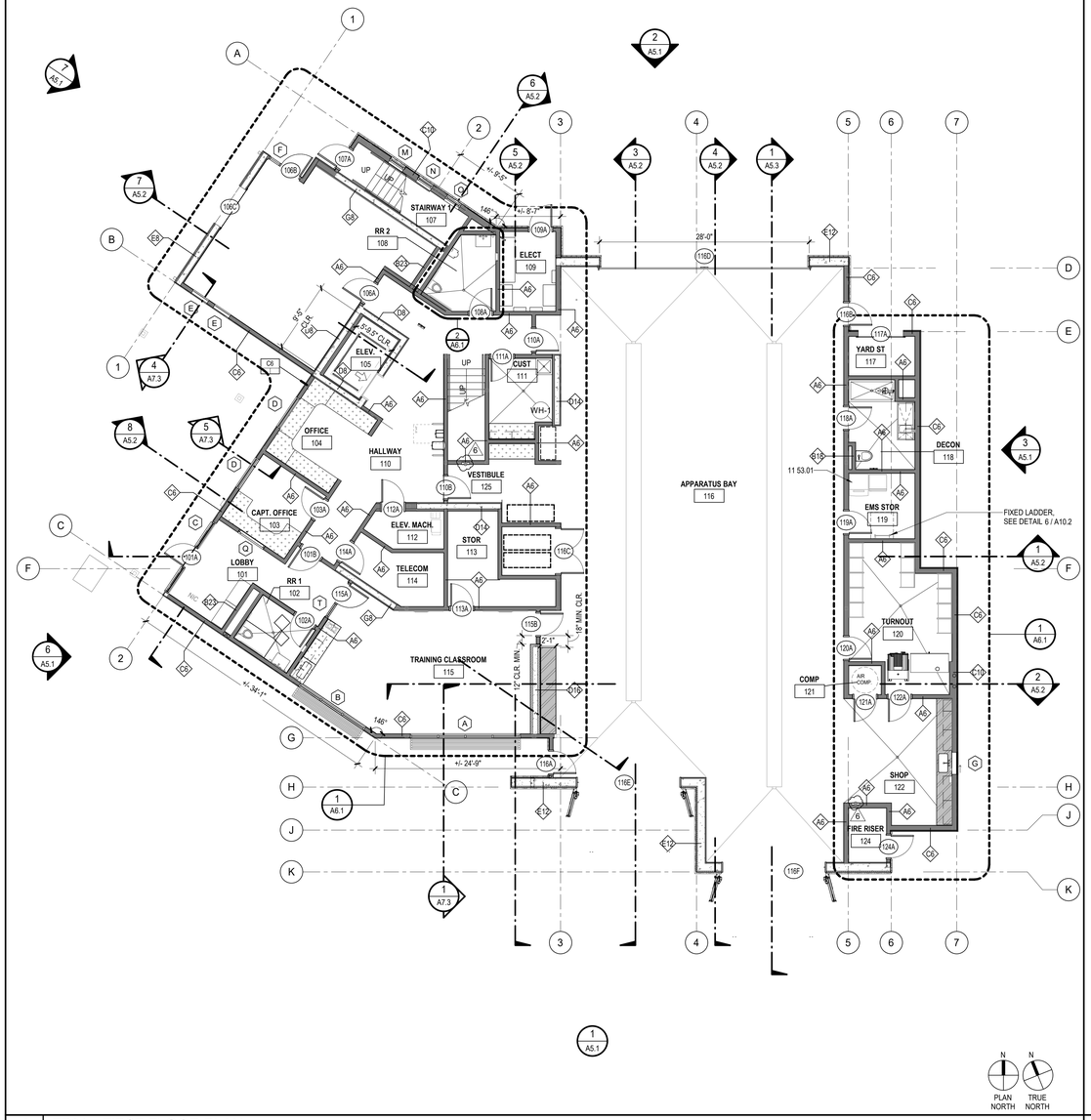
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6	ADDENDUM 6	10/23/2026

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DIMENSION FLOOR PLANS

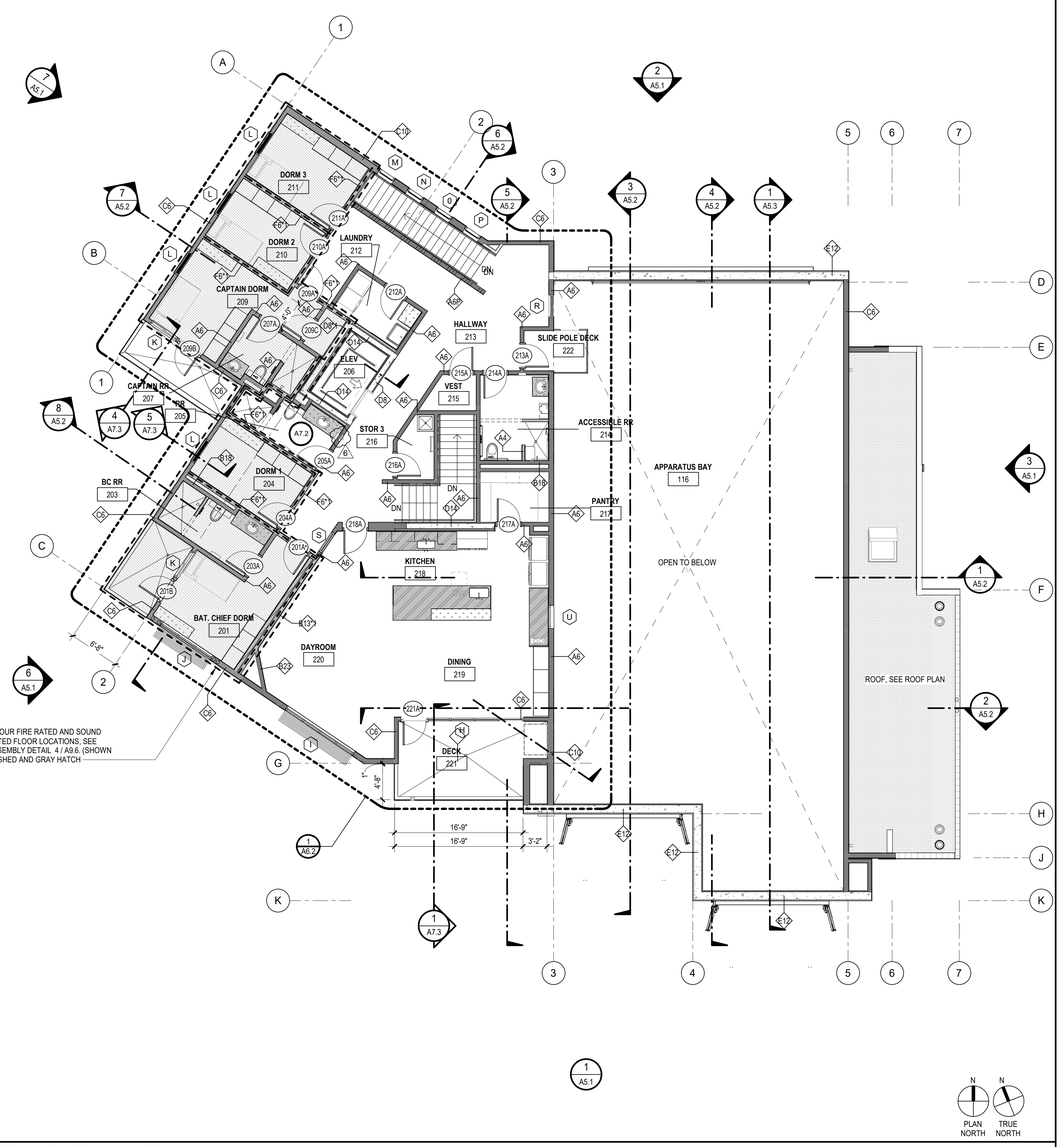
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1 FP01 - FIRST FLOOR PLAN

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



2 FP02 - SECOND FLOOR PLAN

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

ROOM SCHEDULE FIRST FLOOR

Name	Number	Area
LOBBY	101	172 SF
RR 1	102	58 SF
CAPT. OFFICE	103	101 SF
OFFICE	104	122 SF
ELEV.	105	55 SF
FITNESS	106	488 SF
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FIRE STATION #44
COASTSIDE FIRE PROTECTION DISTRICT

501 STETSON STREET
MOSS BEACH, CA 94038
PLAN CHECK 02 RESPONSE

PLAN CHECK 02 RESPONSE



KEY PLAN

CLIENT
COASTSIDE FIRE PROTECTION DISTRICT
PROJECT NUMBER
230137
DATE 03/13/2026
DRAWN BY: KF/OS CHKED BY: AD

REVISIONS

#	DESCRIPTION	DATE
2	NON-PC REVISION	12/11/25
3	PLANCHECK #2 RESPONSE	03/13/26
5	PLANCHECK #3 RESPONSE	05/22/2026
6	ADDENDUM 6	10/23/2026

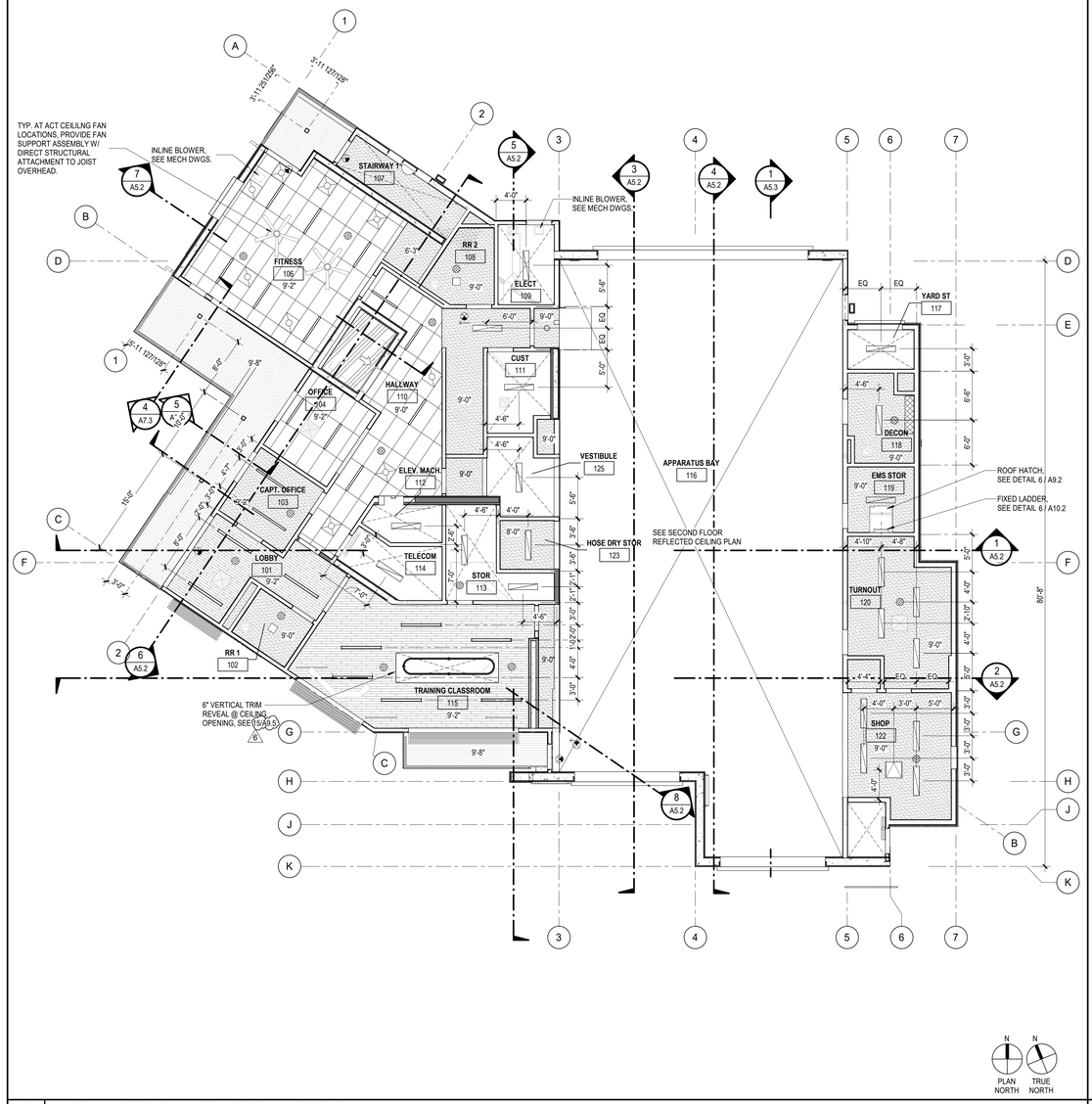
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ARCHITECTURAL FLOOR PLANS

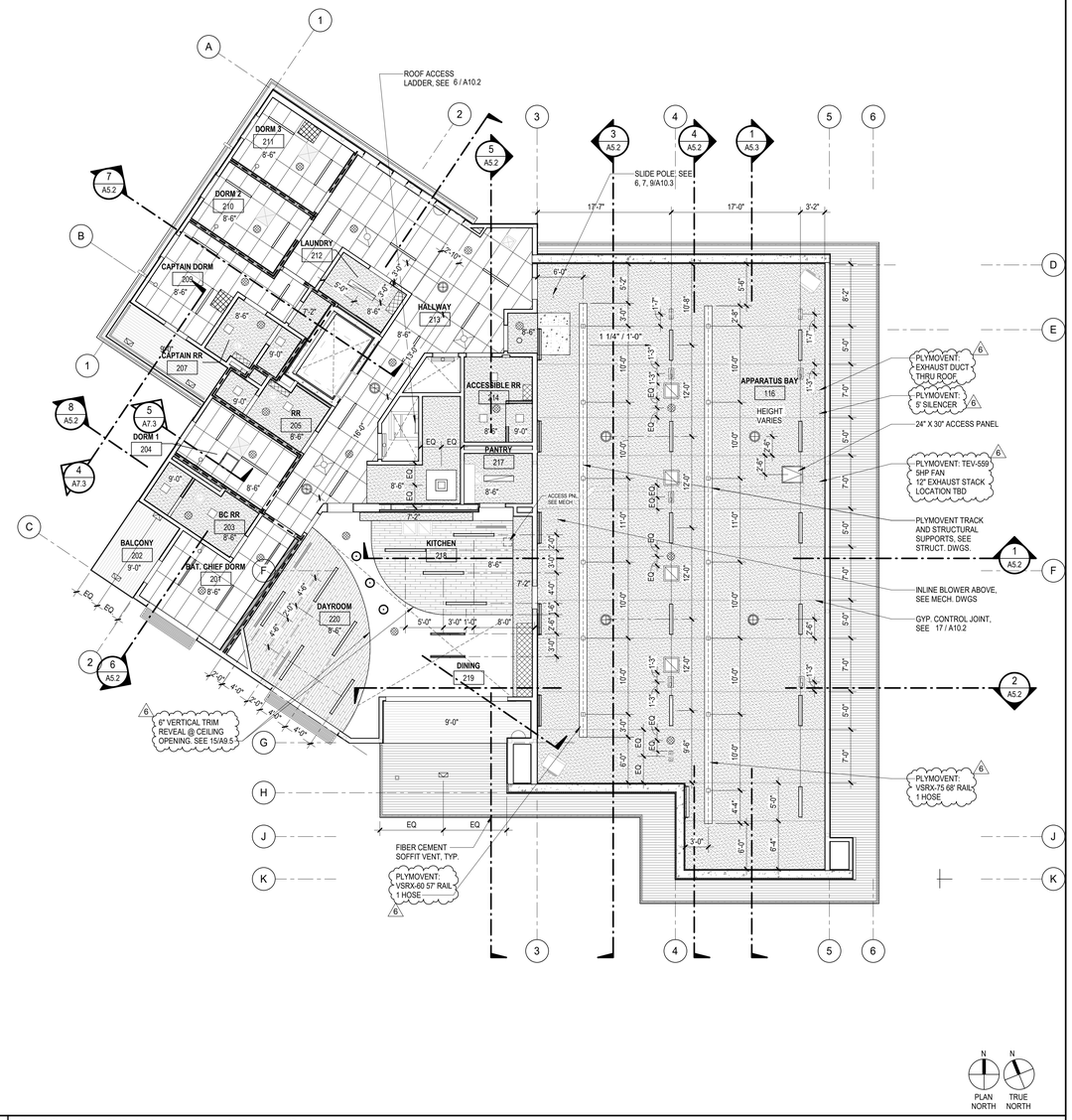
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A3.1 - REFLECTED CEILING PLAN



1 FIRST FLOOR REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"



2 SECOND FLOOR REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

CEILING MATERIALS LEGEND

- APC TYPE I - 2' x 4' ACOUSTIC PANEL *RE: FINISH SCHEDULE* SEE A9.4 & A9.5
- GWB - GYPSUM BOARD *RE: FINISH SCHEDULE* SEE 8 / A9.5
- FCS - FIBER CEMENT SOFFIT PANEL SYSTEM *RE: FINISH SCHEDULE*
- FIBER CEMENT SOFFIT VENT, SEE DETAIL 14 / A9.1
- SPW - WOOD CEILING SYSTEM *RE: FINISH SCHEDULE* SEE 14 / A9.5
- OPEN TO STRUCTURE ABOVE
- MECHANICAL EQUIPMENT; SEE MECH DWGS
- FIRE ALARM SPEAKER
- LIGHT FIXTURES, SEE ELEC. DWGS
- CASEWORK UP TO CEILING WHERE OCCURS
- CORD REEL, SEE 1 / A10.2 AND ELECT. DWGS
- HOSE REEL, SEE PLUMBING DWGS
- SKYLIGHTS SEE 11 / A9.2
- CEILING FAN, SEE ELEC.

KEYNOTES

GENERAL CEILING PLAN NOTES

1. REFER TO AND COORD. WITH ROOM FINISH SCHEDULES FOR SPECIFIC CEILING TYPES.
2. ALL SCHEDULED CEILING HEIGHTS ARE FROM THE MAIN FLOOR LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.
3. NO FIRE SPRINKLER HEADS ARE SHOWN ON ARCH. CEILING PLANS. ALL SPRINKLER HEADS SHALL BE CENTERED WITHIN CEILING TILES U.N.O.
4. ONLY CEILING MOUNTED FIXTURES AND EQUIP. IS SHOWN ON ARCH. CEILING PLANS. REFER TO INTERIOR ELEVATIONS FOR WALL MOUNTED FIXTURES. REFER TO MEPT DOCUMENTS FOR ADDITIONAL INFORMATION CONCERNING CEILING MOUNTED FIXTURES AND OR WALL MOUNTED FIXTURES.
5. CEILING MOUNTED LIGHT FIXTURES ARE SHOWN FOR LOCATION PURPOSES ONLY. COORD. WITH ELEC. DOCUMENTS FOR LIGHT FIXTURE DESIGNATIONS.
6. CEILING MOUNTED LIGHT FIXTURES WITHIN FIRE RATED CEILING ASSEMBLIES SHALL HAVE LIGHT FIXTURE PROTECTION AND BE TENTED OR OTHERWISE FIRE RATED TO MATCH CEILING ASSEMBLY FIRE RATING.
7. VERIFY LOCATIONS OF ALL CEILING ACCESS PANELS WITH MEPT DOCUMENTS. COORD. LOCATIONS OF CEILING ACCESS PANELS WITH ARCH. PRIOR TO INSTALLATION. CEILING ACCESS PANEL FIRE RATINGS SHALL MATCH CEILING ASSEMBLY FIRE RATINGS.
8. REFER TO WALL SECTIONS FOR WALL-CEILING INTERFACE

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PLAN CHECK 02 RESPONSE

COASTSIDE FIRE PROTECTION DISTRICT EST 2025

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1ST 2ND

KEY PLAN

PLAN NORTH TRUE NORTH

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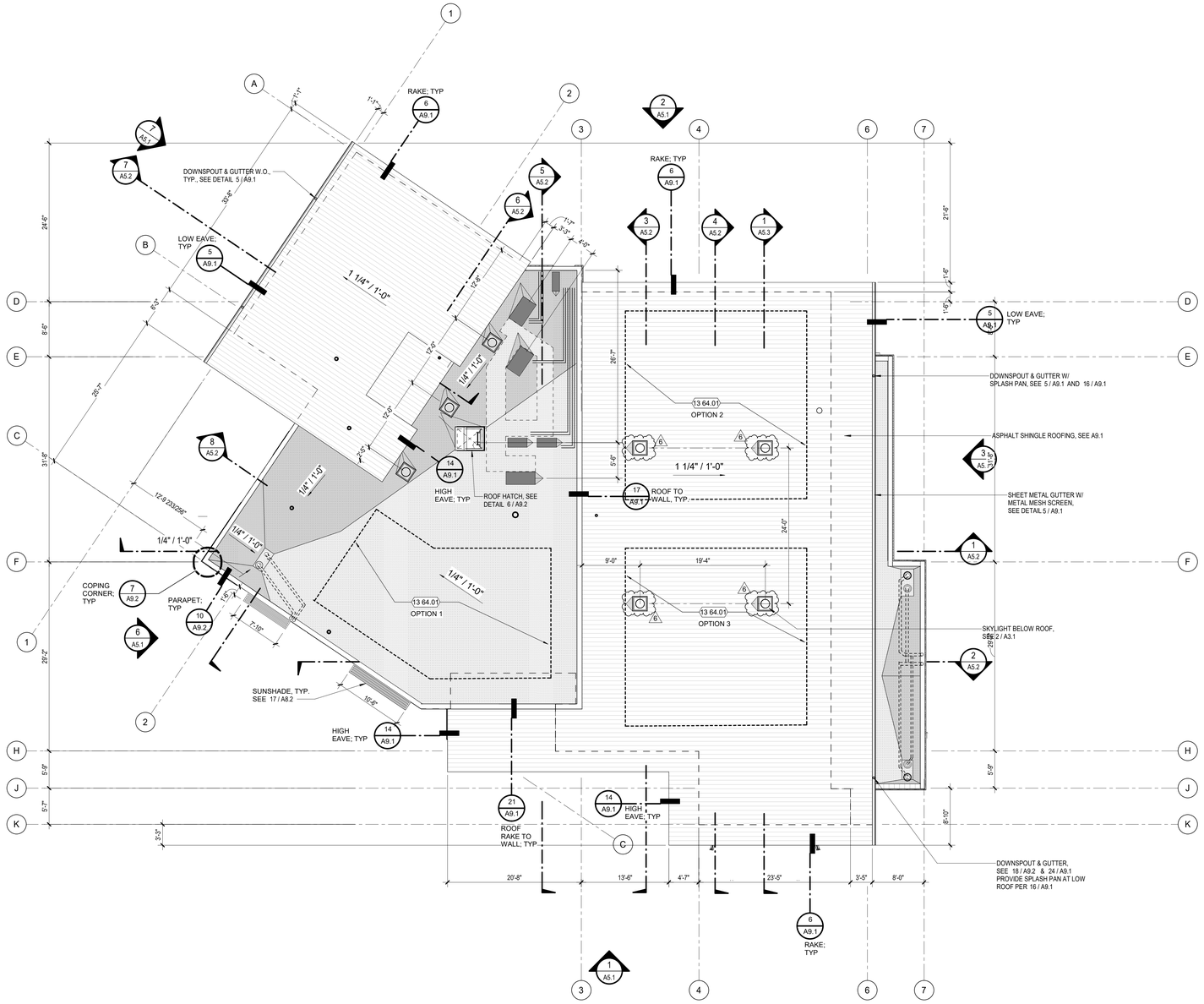
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6	ADDENDUM 6	10/23/2026

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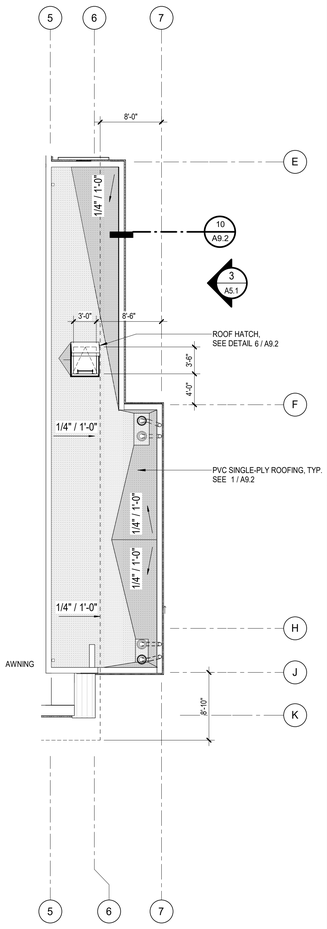
REFLECTED CEILING PLAN

A3.1

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1 OVERALL ROOF PLAN
SCALE: 1/8" = 1'-0"



2 LOWER ROOF PLAN
SCALE: 1/8" = 1'-0"

ROOF PLAN LEGEND

- TPO ROOFING MEMBRANE, SEE SPECS
  - MEMBRANE MANUFACTURER, SEE SPECS
  - SYSTEM: SEE SPECS
  - FIRE HAZARD CLASSIFICATION: UL CLASS B
- STANDING SEAM METAL ROOFING, SEE A9.1 AND SPECS.
- ROOF AND OVERFLOW DRAIN, SEE DETAIL 18 / A9.2, 15 / A9.2 AND PLUMBING DRAWINGS
- ROOF ACCESS HATCH, SEE DETAIL 6 / A9.2
- CRICKET, SEE DETAIL 1 / A9.2
- MECHANICAL UNITS, SEE MECHANICAL DRAWINGS. FOR LOUVER AT WALLS SEE MECH. DWGS. & 18 / A9.1
- ROOF GUTTER AND DOWNSPOUT, TYP.
- ROOF WALKWAY MAT, TYP. SEE SPECS AND DETAIL 11 / A9.2
- SKYLIGHT, SOLARTUBE OR EQUAL, SEE SPECS

GENERAL NOTES

ROOF PLAN NOTES:

1. ALL HEIGHTS ARE REFERENCED FROM FINISH FLOOR ELEVATION = 0'-0". REFER TO PLANS AND SECTIONS FOR ADDITIONAL INFORMATION.
2. FOR ADDITIONAL CONDUIT AND PIPING PENETRATIONS AT ROOF AREAS, SEE MECHANICAL, PLUMBING, ELECTRICAL DRAWINGS AND DETAILS 23 / A9.1 AND 22 / A9.1 AND 19 / A9.1.
3. SEE DETAIL 5 / A9.2 FOR ROOF TOP EQUIPMENT CRICKET.
4. SEE DETAIL 16 / A9.2 FOR FLASHING AT INTERSECTING WALLS.
5. PROVIDE MINIMUM 1/2" PER FOOT ROOF SLOPE FOR DRAINAGE AT ALL FLAT ROOF LOCATIONS.
6. PROVIDE SPLASH PAN FOR DOWNSPOUT TERMINATING AT FLAT ROOF. SEE DETAIL 16 / A9.1
7. PROVIDE SPLASH BLOCK FOR DOWNSPOUT TERMINATION AT GRADE. SEE 20 / A9.1
8. SEE MECH. DRAWINGS FOR FLASHING AT HVAC DUCT AND EQUIPMENT CURBS.

KEYNOTES

13 64.01 PROVIDE AND INSTALL PHOTOVOLTAIC SOLAR PANELS. (BASIS OF DESIGN, MFR: RECGROUP, MODEL: 'REC ALPHA PURE-R') INSTALL PER MFR DETAILS. SEE ELEC DRAWINGS FOR EQUIPMENT AND ADDITIONAL REQUIREMENTS. ALL ATTACHMENT POINTS MUST BE SECURED TO STRUCTURAL ROOF MEMBERS (RAFTERS/TRUSSES) OR APPROVED BLOCKING METHODS. COMPLY WITH DETAILS FOR ROOF PENETRATION AND FLASHING DETAILS. MAINTAIN MINIMUM AIRSPACE CLEARANCE BETWEEN PANELS AND SHINGLES PER FIRE CODE AND MFR INSTRUCTIONS FOR PROPER VENTILATION.

PLAN NORTH / TRUE NORTH

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FIRE STATION #44
COASTSIDE FIRE PROTECTION DISTRICT

501 STETSON STREET
MOSS BEACH, CA 94038
PLAN CHECK 02 RESPONSE

PLAN CHECK 02 RESPONSE



KEY PLAN — PLAN NORTH / TRUE NORTH

CLIENT
COASTSIDE FIRE PROTECTION DISTRICT
PROJECT NUMBER
230137
DATE 03/13/2026
DRAWN BY: KF/OS CHKED BY: AD

REVISIONS

#	DESCRIPTION	DATE
2	NON-PC REVISION	12/11/25
6	ADDENDUM 6	10/23/2026

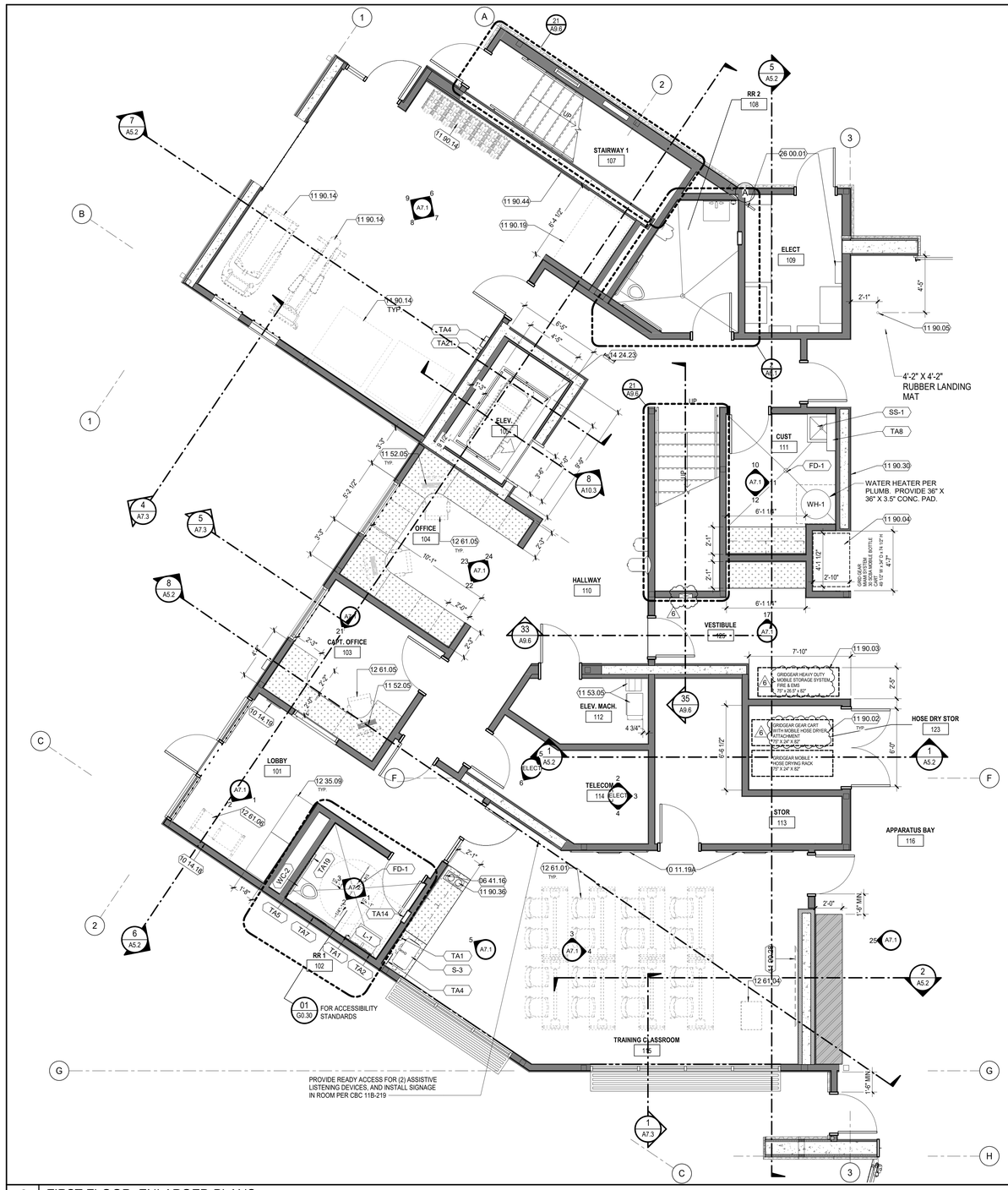
ROOF PLAN

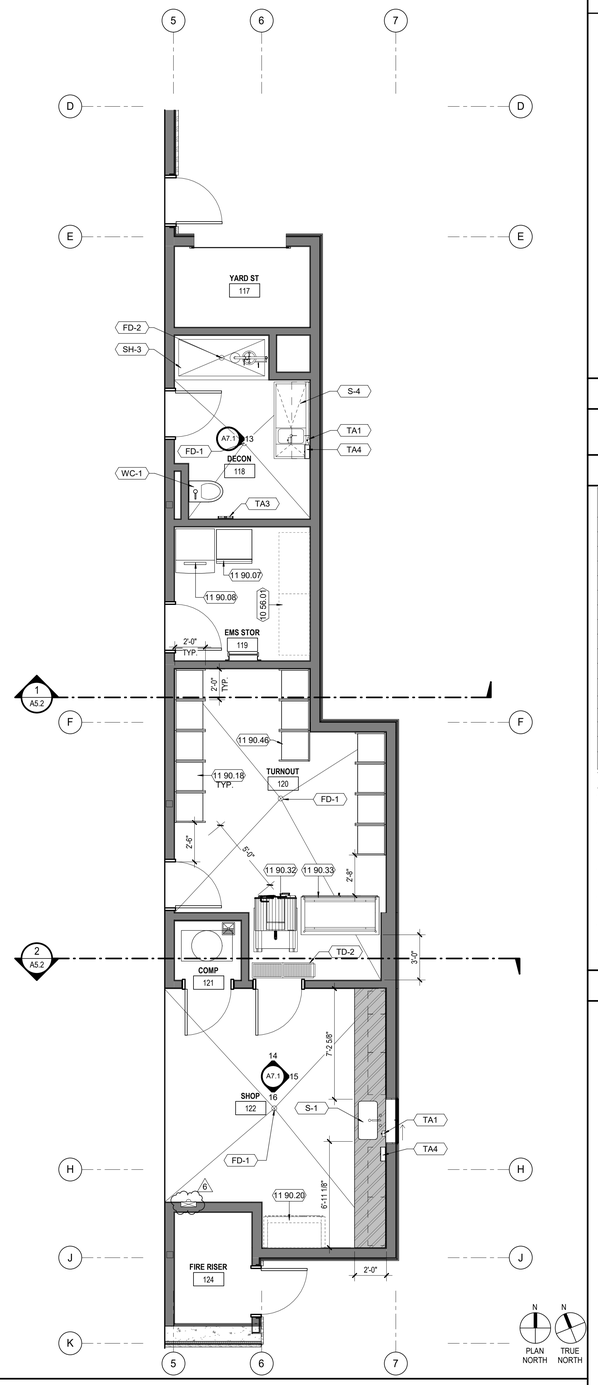
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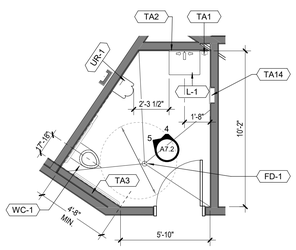
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A6.1 - ENLARGED PLANS





1 FIRST FLOOR ENLARGED PLANS
SCALE: 1/4" = 1'-0"



2 ENLARGED FLOOR PLAN - RR2(108)
SCALE: 1/4" = 1'-0"

KEYNOTES

06 41.16	8 INCH DIA. GROMMET, WITH TRASH & RECYCLING BINS BELOW (NIC)
10 11.19A	MARKERBOARD, SEE INTERIOR ELEVATIONS FOR SIZE, SPECS, PROVIDE BACKING, SEE DETAIL 10/A10.2
10 14.18	FIRE STATION MEDALLION SIGNAGE
10 14.19	DEDICATION PLAQUE, V.I.F. LOCATION, PROVIDE BACKING
10 56.01	METAL STORAGE SHELVING UNITS, N.I.C.
11 52.05	COMPUTER, N.I.C.
11 53.05	ELEVATOR EQUIPMENT, FROM MANUFACTURER
11 90.02	GRIDGEAR, MOBILE DRYING RACK, 75" W x 24" D x 82" H
11 90.03	GRIDGEAR, MOBILE HOSE STORAGE, 75" W x 26.5" D x 82" H
11 90.04	GRIDGEAR, SCBA MOBILE BOTTLE CART, 49 1/2" W x 34 D x 74 1/2"
11 90.05	SLIDE POLE 4 MAT, RECESS SLAB 3/4" TO REGEAR MAT, SEE DETAIL 9/A10.3
11 90.07	UPRIGHT FREEZER,FRIGIDAIRE 21 CU FT FROST FREE UPRIGHT FREEZER OR APPROVED EQ
11 90.08	ICE MAKER VIBEKIO IM-02 COMMERCIAL ICE MAKER MACHINE, OR APPROVED EQUAL
11 90.14	FITNESS EQUIPMENT, N.I.C.
11 90.18	GEARGRID 24"X24" WALL MOUNT LOCKER, SEE SPECS
11 90.19	SAUNA, NIC
11 90.20	TOOL CHEST, N.I.C.
11 90.28	DIGITAL MARKERBOARD, N.I.C, PROVIDE BLOCKING/WALL MOUNT, SEE DETAIL 14/A10.2
11 90.30	TELEVISION, N.I.C, PROVIDE BLOCKING/WALL MOUNT, SEE DETAIL 14/A10.2
11 90.32	EXTRACTOR, SEE SPECS AND PLUMBING DWGS.
11 90.33	PPE DRYING CABINET, SEE SPECS AND PLUMBING DWGS.
11 90.36	PLUMBED COFFEE MAKER, ADD COUNTERTOP GROMMET, SEE PLUMBING DWGS.
11 90.44	WALL MIRROR UP TO 8'-0" PROVIDE MIRRORED OUTLET COVERS, SEE SPECS
11 90.46	GEARGRID 24"X24" FREESTANDING LOCKER, SEE SPECS
12 35.09	DISPLAY CASE,SEE ELEVATIONS AND CASEWORK SCHEDULE

KEYNOTES

12 61.01	DESK AND CHAIRS, N.I.C.
12 61.04	PORTABLE PODUM/LECTURER, N.I.C.
12 61.05	OFFICE CHAIR, N.I.C.
12 61.06	LOBBY CHAIR, N.I.C.
14 24.23	ELEVATOR, SEE ELEVATOR NOTES & SPEC.
26 00.01	ELECTRICAL EQUIPMENT, SEE ELECT. DWGS.
FD-1	FLOOR DRAIN, SEE PLUMBING DWGS.
FD-2	FLOOR DRAIN (SHOWER), SEE PLUMBING DWGS.
L-1	LAVATORY, SEE PLUMBING DWGS.
S-1	KITCHEN SINK, SEE PLUMBING DWGS.
S-3	SINK, SEE PLUMBING DWGS.
S-4	DECON. SINK, SEE PLUMBING DWGS.
SH-3	SHOWER, DECON., SEE PLUMBING DWGS.
SS-1	SERVICE SINK, SEE PLUMBING DWGS.
TD-2	TRENCH DRAIN, SEE PLUMBING DWGS.
UR-1	URINAL, SEE PLUMBING DWGS.
WC-1	WATER CLOSET, SEE PLUMBING DWGS.
WC-2	WATER CLOSET, ACCESSIBLE, SEE PLUMBING DWGS.

GENERAL FLOOR PLAN NOTES

1. DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE, CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS
2. DRAWINGS NOTED AS "N.T.S" OR "NTS" ARE NOT TO SCALE
3. ALL DIMENSIONS ARE TO STRUCTURAL COLUMN LINES OR THE SURFACE OF PARTITION ASSEMBLY U.N.O.
4. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITION BEFORE COMMENCING WORK. NOTIFY ARCH. OF ANY DISCREPANCIES PRIOR TO PROCEEDIN WITH AFFECTED WORK
5. NOTES OR DIMENSIONS NOTED AS "TYPICAL" OR "TYP." OR "TYP" SHALL APPLY TO CONDITIONS THAT ARE THE SAME OR SIMILAR
6. DIMENSIONS NOTED AS "FIELD VERIFY" OR "V.I.F." OR "VIF" SHALL BE MEASURED AND CONFIRMED AT THE PROJECT SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCH. BEFORE INCORPORATING INTO THE WORK
7. DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS
8. REFER TO PARTITION TYPES ON A9.3
9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE WALL TYPE A U.N.O.
10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE B U.N.O.
11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE
12. ALL DOORS SHALL BE SET 6 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS
13. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT
14. COORD. ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION
15. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48
16. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES
17. COORD. HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED
18. ALL FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS U.N.O.
19. ALL FLOOR FINISH MATERIAL CHANGES SHALL HAVE REDUCER STRIPS
20. ALL REQUIRED ACCESSIBLE CLEARANCES FOR ALL ITEMS, INCLUDING BUT NOT LIMITED TO ALL COUNTER TOPS, ALL PLUMBING FIXTURES, ALL DRINKING FOUNTAINS, ALL ELECTRIC WATER COOLERS, ALL LAVATORIES, ALL URINALS, ALL TOILETS SHALL BE STRICTLY ENFORCED
21. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK

ELEVATOR NOTES

BASIS OF DESIGN IS KONE MONOSPACE 500 DX. INTERIOR DIMENSIONS ARE APPROXIMATELY 7' W x 4' 5" D PER MANUFACTURER (MIN. 54" FROM BACK WALL TO INSIDE FACE OF DOOR). ELEVATOR IS TO BE FULLY ACCESSIBLE AND COMPLY WITH 11B-407

TOILET ACCESSORIES SCHEDULE

MARK	DESCRIPTION	BOBRICK MODEL NO. (UON)	REMARKS	DETAIL	QUANTITY
TA1	SURFACE-MOUNTED SOAP DISPENSER	BOB B-2111	5		
TA2	24" X 36" OR 18" X 36" GLASS MIRROR - SEE INT. ELEV.	BOB B-290	4		
TA3	RECESSED TOILET TISSUE DISPENSER	BOB B-6977	4		
TA4	SURFACE-MOUNTED PAPER TOWEL DISPENSER	BOB B-262	4		
TA5	REAR WALL GRAB BAR 36" W/ ANCHOR PLATE	BOB B-6806	3	3 / A10.3	
TA5	SIDE WALL GRAB BAR 42" W/ ANCHOR PLATE	BOB B-6806	3	3 / A10.3	
TA7	SANITARY NAPKIN DISPOSAL AND TOILET PAPER DISPENSER	BOB B-3094			
TA8	SURFACE-MOUNTED MOP AND BROOM HOLDER	BOB B-239			
TA9	SHOWER GRAB BARS MODIFIED TO 24" X 16"	BOB B-6861			
TA10	FOLDING SHOWER BENCH: ADULT HEIGHT	BOB B-5181		3 / A6.2	
TA11	CLOTHES HOOK	BOB B-6717			
TA12	SHOWER CURTAIN	INPRO-SUPER BIO STAT			
TA12	SHOWER ROD	BOB B-207			
TA12	SHOWER HOOKS	BOB B-204-1			
TA14	PAPER TOWEL DISPENSER/TRASH RECEPTACLE COMBO	BOB B-38034			
TA17	TRASH RECEPTACLE	BOB B-43644			
TA21	HAND SANITIZER DISPENSER	BOB B-2012			

NOTES	REMARKS LEGEND
- PROVIDE ABOVE LISTED ACCESSORIES AT LOCATION INDICATED PER PLAN	1. REF SPECS FOR MANUFACTURER AND MODEL NO.
- REFER TO G0.30 FOR ACCESSIBILITY GUIDELINES FOR MOUNTING HEIGHTS OF ALL PLUMBING FIXTURES AND ACCESSORIES	2. REF TO FLOOR PLANS FOR LEFT /RIGHT-HAND MODEL LOCATIONS.
- REFER TO DETAIL 14 / A9.6 FOR MOUNTING HEIGHT SCHEDULE	3. MAX PROJECTION 1-1/2" CLEAR GRAB BAR
- MAX 2% SLOPE AT FLOOR; SLOPE TO FLOOR DRAINS PER PLAN	4. 4" MAX PROJECTION IF BOTTOM OF UNIT IS ABOVE 27" A.F.F.
- ALL LAVATORIES TO HAVE MIRROR, UNLESSOTHERWISE SPECIFICALLY NOTED	5. ACCESSORY TO BE CLEAR FROM ACCESSIBLE PATH OF TRAVEL
- REFER TO SPEC SECTION **10 28 13**	

FLOOR PLAN LEGEND

- 123 — ROOM NUMBER
- CASEWORK; AS PER SCHEDULE AND DETAILS ON SHEET A10.4 AND A10.5
- 42" HIGH WALL
- 1066 — DOOR DESIGNATION
- A — WINDOW DESIGNATION
- 60" — 1-HR RATED WALL, (MIN. 50 STC AT DORM ROOMS); 6" WOOD STUDS @ 16" O.C., WITH ONE LAYER OF 5/8" TYPE X GYPSUM BOARD EACH SIDE, FROM TOP OF FOUNDATION/ TOP OF SLAB TO UNDERSIDE OF ROOF DECK, REF. UL 309, U341 . SEE 10 / A9.3 FOR WALL PENETRATION DETAILS.
- PARTITION TYPE — *REFER TO SHEET* **A9.3** *FOR DEFINITION* — PROVIDE IDENTIFICATION MARK IN 3" HIGH TEXT TO READ "FIRE BARRIER/ FIRE PARTITION - PROTECT ALL OPENINGS" IN ATTIC SPACE AT INTERVAL NOT EXCEEDING 30 FEET AND WITHIN 15 FEET OF THE END OF EACH WALL ALONG BOTH SIDES OF THE WALL. PAINTED RED. 2022 CBC, SECTION 703.3., SEE SIGNAGE SCHED. ON 8 / A9.7
- CONCRETE SHEAR WALL. SEE STRUCT. DWGS FOR WALL THICKNESS & EXTENT. PROVIDE FURRING STRIPS WITH ONE LAYER OF 5/8" GYPSUM BOARD EACH SIDE, PAINTED. SEE STRUCTURAL DWGS.
- 2x FLAT FURRING STRIPS WITH ONE LAYER OF 5/8" GYPSUM BOARD, PAINTED. SEE A9.3
- 2x4 FURRING WITH ONE LAYER OF 5/8" GYPSUM BOARD, PAINTED.
- 6" WOOD STUDS @ 16" O.C.; AT INTERIOR LOCATIONS PROVIDE ONE LAYER OF 5/8" GYPSUM BOARD EACH SIDE, PAINTED, AT EXTERIOR LOCATIONS PROVIDE ONE LAYER OF 5/8" GYPSUM BOARD AT INTERIOR SIDE, PAINTED, AND ON EXTERIOR SIDE, U.N.O.
- STONE VENEER WAINSCOT FINISH OVER BROWNCOAT, SEE DETAIL 15 / A9.1
- FIRE EXTINGUISHER CABINET, SEE DETAIL 13 / A10.2

MATERIALS LEGEND

- SS-1 SOLID SURFACE W/4" H INTEGRAL BACKSPLASH RE: SEE FINISH SCHEDULE
- SS-2 SOLID SURFACE RE: SEE FINISH SCHEDULE
- MC-1 STAIN, STEEL COUNTER W/4" H INTEGRAL BACKSPLASH RE: SEE FINISH SCHEDULE
- BUNK BED SEE SPECS
- MOTORIZED ROLLER WINDOW SHADE
- MANUAL ROLLER WINDOW SHADE
- MANUAL ROLLER WINDOW BLACK-OUT SHADE
- NIC
- TA12 SHOWER ROD - SEE TOILET ACCESSORIES SCHEDULE

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FIRE STATION #44
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501 STETSON STREET
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PLAN CHECK 02 RESPONSE

PLAN CHECK 02 RESPONSE

KEY PLAN — PLAN NORTH — TRUE NORTH

CLIENT
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DRAWN BY: KF/OS CHKED BY: AD

REVISIONS

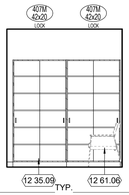
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6	ADDENDUM 6	10/23/2026

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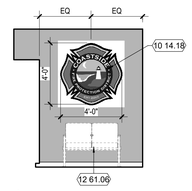
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A6.1

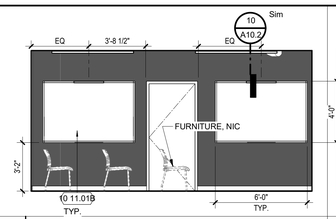
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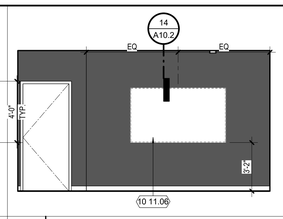
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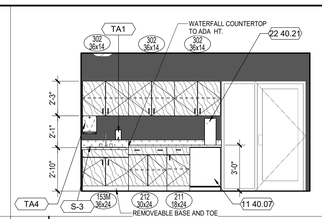
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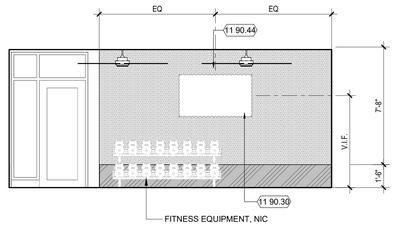
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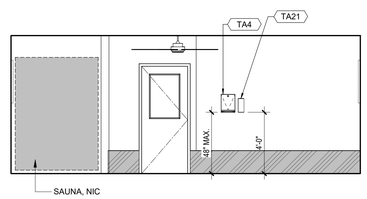
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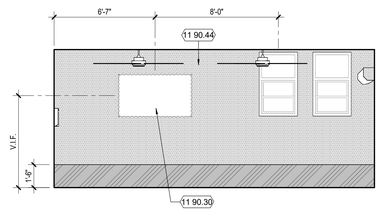
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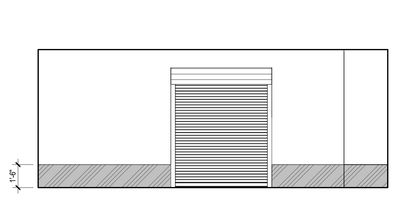
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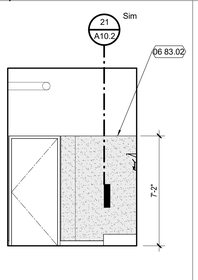
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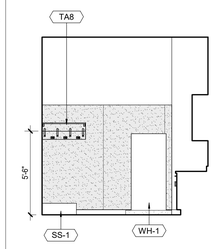
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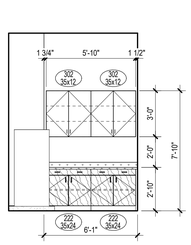
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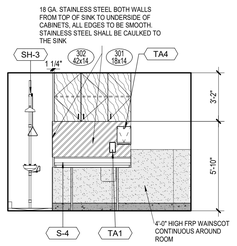
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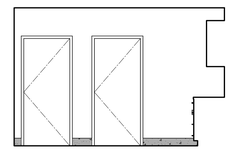
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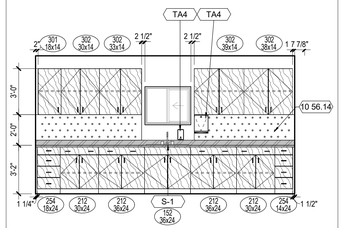
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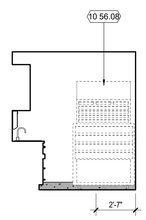
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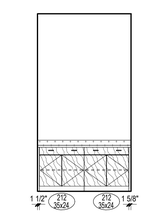
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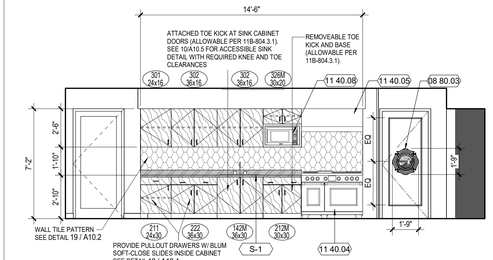
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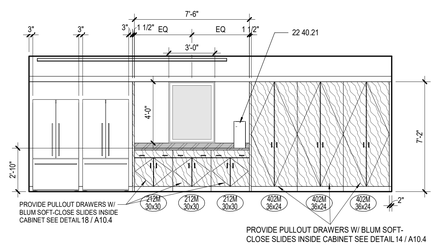
16 122 SHOP - SOUTH
SCALE: 1/4" = 1'-0"



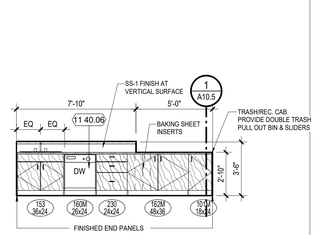
17 125 VESTIBULE - NORTH
SCALE: 1/4" = 1'-0"



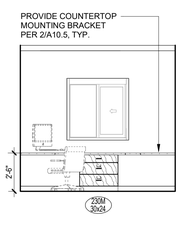
18 217 KITCHEN - NORTH
SCALE: 1/4" = 1'-0"



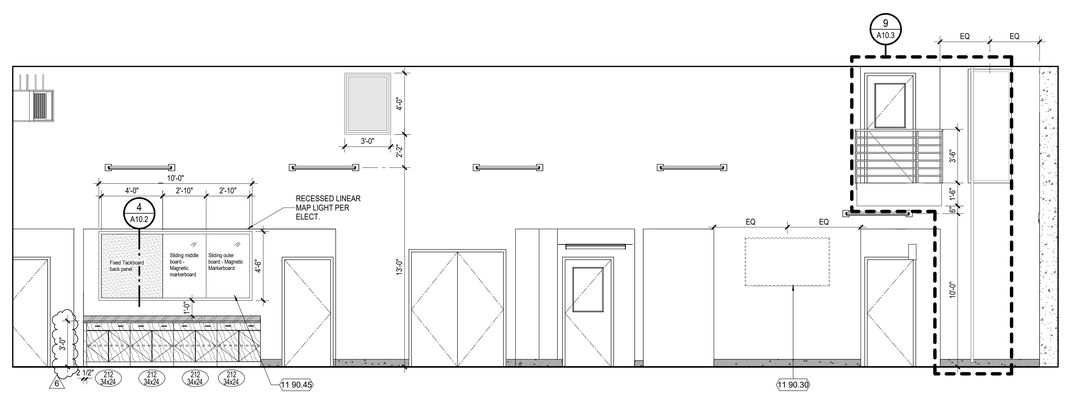
19 217/218 KITCHEN/DINING - EAST
SCALE: 1/4" = 1'-0"



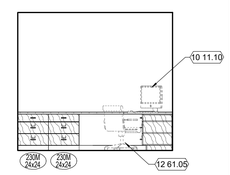
20 217/218 KITCHEN/DINING ISLAND
SCALE: 1/4" = 1'-0"



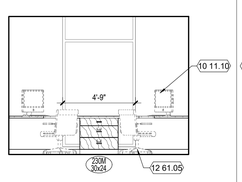
21 103 CAPT. OFFICE - SOUTH
SCALE: 1/4" = 1'-0"



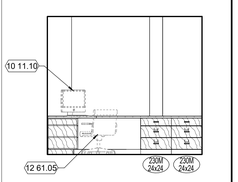
25 118 APPARATUS BAY
SCALE: 1/4" = 1'-0"



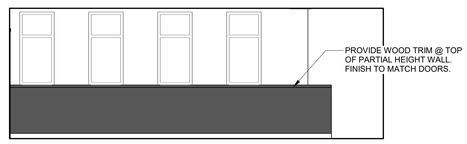
22 104 OFFICE - SOUTH
SCALE: 1/4" = 1'-0"



23 104 OFFICE - WEST
SCALE: 1/4" = 1'-0"



24 104 OFFICE - NORTH
SCALE: 1/4" = 1'-0"



26 213 BACK STAIRS
SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. PROVIDE SOLID BACKING IN WALL AT ALL LOCATIONS OF WALL MOUNTED ITEMS, INCLUDING BUT NOT LIMITED TO CABINETRY, TOILET ACCESSORIES, OWNER PROVIDED ACCESSORIS, ELECTRICAL AND FIRE ALARM DEVICES, AND BRACKETS FOR WALL MOUNTED EQUIPMENT.
2. REFER TO SHEET 01/G0.30 FOR ACCESSORY MOUNTING HEIGHTS.
3. REFER TO ROOM FINISH SCHEDULE ON SHEET A7.02-2 FOR ADDITIONAL FINISH INFO.

INTERIOR MATERIALS LEGEND

- P-1 GYPSUM BOARD — RE: SEE FINISH SCHEDULE
- P-2 GYPSUM BOARD - PAINTED — RE: SEE FINISH SCHEDULE
- P-4 GYPSUM BOARD- PAINTED — RE: SEE FINISH SCHEDULE
- PT-1 PORCELAIN TILE — RE: SEE FINISH SCHEDULE; SEE DETAIL 23 / A10.2
- PT-2 PORCELAIN TILE — RE: SEE FINISH SCHEDULE; SEE DETAILS 19 / A10.2 & 23 / A10.2
- CT-1 CERAMIC TILE — RE: SEE FINISH SCHEDULE; SEE DETAILS 19 / A10.2 & 23 / A10.2
- FRP-1 FIBERGLASS REIN. PANELS — RE: SEE FINISH SCHEDULE; SEE DETAILS 21 / A10.2 & 16 / A10.2
- RB-1 4" RUBBER BASE — RE: SEE FINISH SCHEDULE AND MATERIAL SCHEDULE; SEE DETAIL 5 / A10.2
- RB-2 18" RUBBER BASE — RE: SEE FINISH SCHEDULE AND MATERIAL SCHEDULE; SEE DETAIL 24 / A10.2
- CR 6" CONCRETE BASE WITH 3/4" RADIUS COVE RE: SEE SPECS; SEE DETAIL 7 / A10.2
- TB-1 TILE BASE — RE: SEE FINISH SCHEDULE AND MATERIAL SCHEDULE; SEE DETAIL 23 / A10.2
- PEGBOARD RE: SEE SPECS
- MIRROR RE: SEE SPECS
- PL-1 PLASTIC LAMINATE — RE: SEE FINISH SCHEDULE
- PL-2 PLASTIC LAMINATE — RE: SEE FINISH SCHEDULE
- STAINLESS STEEL BACKSPLASH — RE: SEE SPECS
- SS-1 SOLID SURFACE W/4" H INTEGRAL BACKSPLASH — RE: SEE FINISH SCHEDULE; SEE DETAIL 15 / A10.4
- SS-2 SOLID SURFACE — RE: SEE FINISH SCHEDULE; SEE DETAIL 15 / A10.4
- MC-1 STAIN. STEEL COUNTER W/4" H INTEGRAL BACKSPLASH — RE: SEE FINISH SCHEDULE; SEE DETAIL 15 / A10.4
- 100 12x12 LOUX — WOODWORK INSTITUTE CABINET REFERENCE *WIDTH x DEPTH*

INTERIOR NOTES:

1. REFER TO FINISH SCHEDULE FOR ALL FINISHES NOT SHOWN IN ELEVATIONS.
2. REFER TO FINISH LEGEND FOR FINISH MATERIAL DEFINITIONS.
3. PAINT ALL EXPOSED STRUCTURAL MEMBERS, STRUCTURAL DECK, DUCTWORK, DIFFUSERS, PIPING, CONDUIT, EQUIPMENT HOUSINGS, LIGHT FIXTURE HOUSINGS, CABLE SUPPORTS, CABLE TRAYS, EQUIPMENT SUPPORTS, HANGER, ETC. TO MATCH ADJACENT SURFACES.
4. PROVIDE SOLID BACKING IN WALL AT ALL LOCATIONS OF WALL MOUNTED ITEMS INCLUDING BUT NOT LIMITED TO CABINETRY, TOILET ACCESSORIES, OWNER PROVIDED ACCESSORIES, ELECTRICAL AND FIRE ALARM DEVICES AND BRACKETS FOR WALL MOUNTED EQUIPMENT. SEE DETAIL 14 / A10.2
5. ALL ELECTRICAL AND DATA DEVICE COVERS TO BE WHITE U.N.O.
6. PROVIDE AND INSTALL RESILIENT BASE (RB-1) AT ALL WALLS EXCEPT AS NOTED.
7. REFER TO ACCESSIBILITY GUIDELINES (G0.30) FOR MOUNTING HEIGHTS EXCEPT AS NOTED.
8. REFER TO CODE REVIEW PLANS (G0.6-G0.7) AND SIGNAGE DETAILS (G0.31) FOR SIGNAGE LOCATION, TYPES, AND INSTALLATION.
9. FOR ROOM IDENTIFICATION AND GENERAL SIGNAGES. SEE SHEETS G0.06 AND G0.07.

KEYNOTES

06 83.02	FIBERGLASS REINFORCED PANELING (FRP)
08 80.03	ETCHED GLASS COASTSIDE MEDALLION IN FROSTED GLASS
10 11.01B	MARKERBOARD - TYPE B (6'x4'), PROVIDE BACKING
10 11.06	DIGITAL MARKERBOARD, N.I.C, PROVIDE BLOCKING/WALL MOUNT
10 11.10	COMPUTER, N.I.C.
10 14.18	FIRE STATION MEDALLION SIGNAGE
10 56.08	TOOL CHEST, N.I.C.
10 56.14	PEG BOARD, CUT TO SIZE, SEE SPECS
11 40.04	GAS RANGE, SEE SPECS AND PLUMBING DWGS.
11 40.05	RANGE HOOD, SEE SPECS AND PLUMBING DWGS.
11 40.06	DISHWASHER, SEE SPECS
11 40.07	UNDERCOUNTER REFRIGERATOR, SEE SPECS
11 40.08	BUILT-IN MICROWAVE, SEE SPECS
11 90.30	TELEVISION, N.I.C, PROVIDE BLOCKING/WALL MOUNT, SEE DETAIL 14/A10.2
11 90.44	WALL MIRROR UP TO 8'-0" PROVIDE MIRRORED OUTLET COVERS, SEE SPECS
11 90.45	SLIDING UNIT DISTRICT MAP, SEE SPECS, V.I.F. LOCATION, PROVIDE BACKING
12 35.09	DISPLAY CASE,SEE ELEVATIONS AND CASEWORK SCHEDULE
12 61.05	OFFICE CHAIR, N.I.C.
12 61.06	LOBBY CHAIR, N.I.C.
22 40.21	PLUMBED COFFEE MAKER, ADD COUNTERTOP GROMMET, SEE PLUMBING DWGS.
S-1	KITCHEN SINK, SEE PLUMBING DWGS.
S-3	SINK, SEE PLUMBING DWGS.
S-4	DECON. SINK, SEE PLUMBING DWGS.
SH-3	SHOWER, DECON., SEE PLUMBING DWGS.
SS-1	SERVICE SINK, SEE PLUMBING DWGS.
WH-1	WATER HEATER ON CONCRETE PAD PER PLUMB.

RESTROOM ACCESSORY LEGEND

TA1	SOAP DISPENSER
TA2	MIRROR, SEE ELEVATIONS FOR SIZE
TA3	TOILET PAPER DISPENSER
TA4	PAPER TOWEL DISPENSER
TA5	GRAB BARS AT TYPICAL ACCESSIBLE TOILET STALLS
TA7	SANITARY NAPKIN DISPOSAL
TA8	MOP AND BROOM HOLDER
TA9	GRAB BARS AT ACCESSIBLE SHOWER
TA10	FOLDING SHOWER BENCH
TA11	CLOTHES HOOK
TA12	SHOWER CURTAIN, ROD AND HOOKS
TA14	COMBO PAPER TOWEL DISPENSER/TRASH RECEPTACLE
TA17	TRASH RECEPTACLE
TA18	TOILET PAPER DISPENSER WITH SANITARY NAPKIN DISPOSAL, RECESSED
TA19	TOILET SEAT COVER DISPENSER
TA21	SURFACE MOUNTED HAND SANTIZER DISPENSER
TA-4	

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FIRE STATION #44
COASTSIDE FIRE PROTECTION DISTRICT

501 STETSON STREET
MOSS BEACH, CA 94038
PLAN CHECK 02 RESPONSE

COASTSIDE FIRE PROTECTION DISTRICT EST 2022

PLAN CHECK 02 RESPONSE



KEY PLAN
PLAN NORTH
TRUE NORTH

CLIENT
COASTSIDE FIRE
PROTECTION DISTRICT
PROJECT NUMBER
230137
DATE 03/13/2026
DRAWN BY: KF/OS CHKED BY: AD

REVISIONS

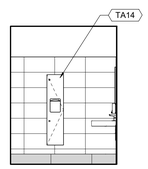
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1	PLANCHECK #1 RESPONSE	12/11/25
6	ADDENDUM 6	10/23/2026

This document is for plan review only

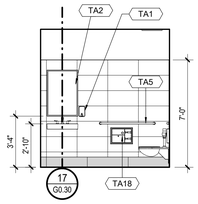
INTERIOR ELEVATIONS

A7.1

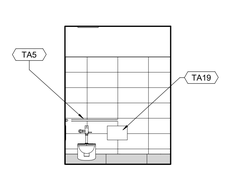
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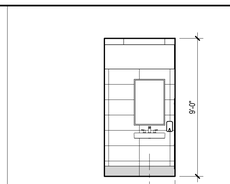
1 102 RESTROOM - EAST
SCALE: 1/4" = 1'-0"



2 102 RESTROOM - SOUTH
SCALE: 1/4" = 1'-0"

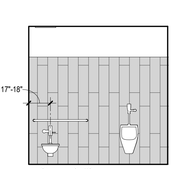


3 102 RESTROOM - WEST
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SEE 01 / G0.30 FOR ACCESSIBILITY REQUIREMENTS NOT SHOWN

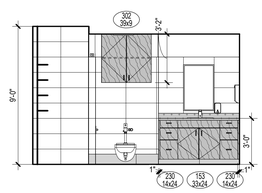
4 108 RESTROOM - NORTH
SCALE: 1/4" = 1'-0"



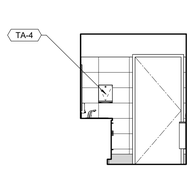
ALIGN WALL JOINTS WITH FLOOR JOINTS

SEE 01 / G0.30 FOR ACCESSIBILITY REQUIREMENTS NOT SHOWN

5 108 RESTROOM - WEST
SCALE: 1/4" = 1'-0"



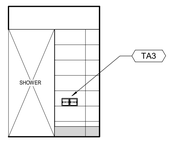
6 203 RESTROOM - NORTH
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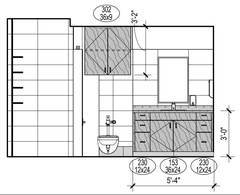
7 203 RESTROOM - EAST
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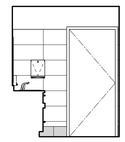
8 203 RESTROOM - SOUTH
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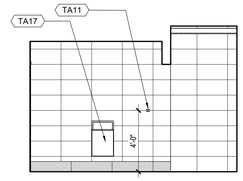
9 203 RESTROOM - WEST
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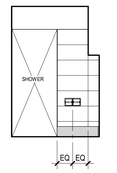
10 205 RESTROOM - NORTH
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11 205 RESTROOM - EAST
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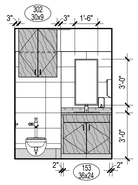
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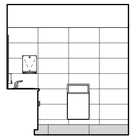
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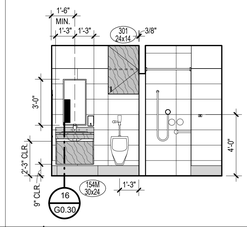
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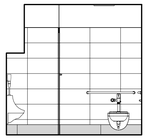
15 207 RESTROOM - SOUTH
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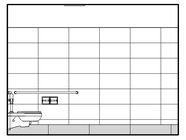
16 207 RESTROOM - WEST
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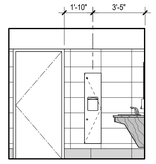
17 214 RESTROOM - EAST
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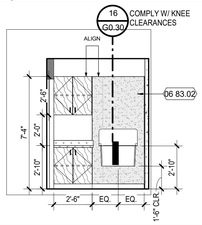
18 214 RESTROOM - SOUTH
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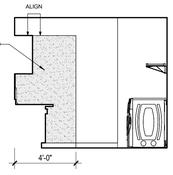
19 213 RESTROOM - WEST
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20 213 RESTROOM - NORTH
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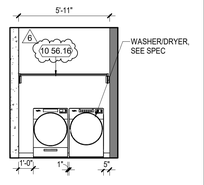


21 206 LAUNDRY - EAST
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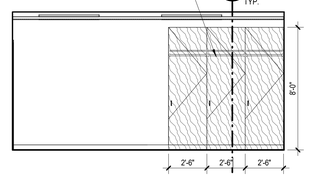


22 206 LAUNDRY - SOUTH
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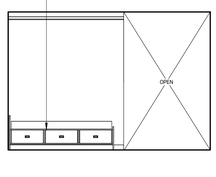
NOTE: OPERABLE PARTS & CONTROLS OF WASHER/DRYER ARE TO BE WITHIN REACH RANGE 48" MAX. HT. AND MIN. 15" ABOVE FIN. FLOOR. OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING. FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS MAX. FRONT LOADING MACHINES SHALL HAVE THE BOTTOM OF THE OPENING TO THE LARUNDY COMPARTMENT LOCATED 15" MIN. AND 36" MAX. ABOVE THE FIN. FLOOR



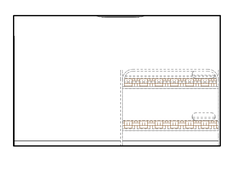
23 206 LAUNDRY - WEST
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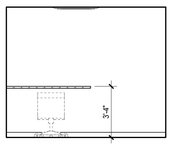
24 201 BAT. CHIEF DORM - EAST
SCALE: 1/4" = 1'-0"



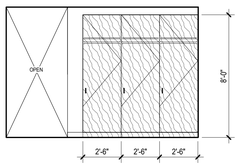
25 201 BAT. CHIEF DORM - NORTH
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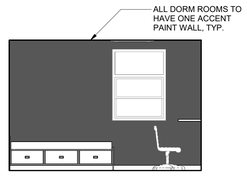
26 204 DORM 1 - SOUTH
SCALE: 1/4" = 1'-0"



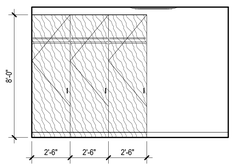
27 209 CAPTAIN DORM - NORTH
SCALE: 1/4" = 1'-0"



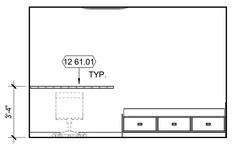
28 209 CAPTAIN DORM - EAST
SCALE: 1/4" = 1'-0"



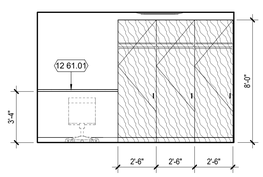
29 209 CAPTAIN DORM - WEST
SCALE: 1/4" = 1'-0"



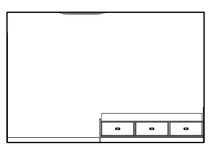
30 210 DORM 2 - NORTH
SCALE: 1/4" = 1'-0"



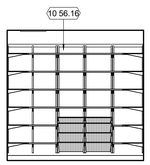
31 210 DORM 2 - SOUTH
SCALE: 1/4" = 1'-0"



32 204 & 211 DORM 3 - NORTH
SCALE: 1/4" = 1'-0"



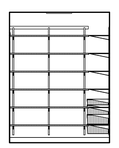
33 211 DORM 3 - SOUTH
SCALE: 1/4" = 1'-0"



34 217 PANTRY - NORTH
SCALE: 1/4" = 1'-0"



35 217 PANTRY - EAST
SCALE: 1/4" = 1'-0"



36 217 PANTRY - WEST
SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. PROVIDE SOLID BACKING IN WALL AT ALL LOCATIONS OF WALL MOUNTED ITEMS, INCLUDING BUT NOT LIMITED TO CABINETRY, TOILET ACCESSORIES, OWNER PROVIDED ACCESSORIS, ELECTRICAL AND FIRE ALARM DEVICES, AND BRACKETS FOR WALL MOUNTED EQUIPMENT.
2. REFER TO SHEET 01/G0.30 FOR ACCESSORY MOUNTING HEIGHTS.
3. REFER TO ROOM FINISH SCHEDULE ON SHEET A7.02-2 FOR ADDITIONAL FINISH INFO.

INTERIOR MATERIALS LEGEND

- P-1 GYPSUM BOARD RE: SEE FINISH SCHEDULE
- P-2 GYPSUM BOARD - PAINTED RE: SEE FINISH SCHEDULE
- P-4 GYPSUM BOARD- PAINTED RE: SEE FINISH SCHEDULE
- PT-1 PORCELAIN TILE RE: SEE FINISH SCHEDULE SEE DETAIL 23 / A10.2
- PT-2 PORCELAIN TILE RE: SEE FINISH SCHEDULE SEE DETAILS 19 / A10.2 & 23 / A10.2
- CT-1 CERAMIC TILE RE: SEE FINISH SCHEDULE SEE DETAILS 19 / A10.2 & 23 / A10.2
- FRP-1 FIBERGLASS REIN. PANELS RE: SEE FINISH SCHEDULE SEE DETAILS 21 / A10.2 & 16 / A10.2
- RB-1 4" RUBBER BASE RE: SEE FINISH SCHEDULE AND MATERIAL SCHEDULE SEE DETAIL 5 / A10.2
- RB-2 18" RUBBER BASE RE: SEE FINISH SCHEDULE AND MATERIAL SCHEDULE SEE DETAIL 24 / A10.2
- CB 6" CONCRETE BASE WITH 3/4" RADIUS COVE RE: SEE SPECS SEE DETAIL 7 / A10.2
- TB-1 TILE BASE RE: SEE FINISH SCHEDULE AND MATERIAL SCHEDULE SEE DETAIL 23 / A10.2
- PEGBOARD RE: SEE SPECS
- MIRROR RE: SEE SPECS
- PL-1 PLASTIC LAMINATE RE: SEE FINISH SCHEDULE
- PL-2 PLASTIC LAMINATE RE: SEE FINISH SCHEDULE
- STAINLESS STEEL BACKSPLASH RE: SEE SPECS
- SS-1 SOLID SURFACE W/4" H INTEGRAL BACKSPLASH RE: SEE FINISH SCHEDULE SEE DETAIL 15 / A10.4
- SS-2 SOLID SURFACE RE: SEE FINISH SCHEDULE SEE DETAIL 15 / A10.4
- MC-1 STAIN. STEEL COUNTER W/4" H INTEGRAL BACKSPLASH RE: SEE FINISH SCHEDULE SEE DETAIL 15 / A10.4
- 100 12x72 Lab — WOODWORK INSTITUTE CABINET REFERENCE *WIDTH x DEPTH*

INTERIOR NOTES:

1. REFER TO FINISH SCHEDULE FOR ALL FINISHES NOT SHOWN IN ELEVATIONS.
2. REFER TO FINISH LEGEND FOR FINISH MATERIAL DEFINITIONS.
3. PAINT ALL EXPOSED STRUCTURAL MEMBERS, STRUCTURAL DECK, DUCTWORK, DIFFUSERS, PIPING, CONDUIT, EQUIPMENT HOUSINGS, LIGHT FIXTURE HOUSINGS, CABLE TRAYS, EQUIPMENT SUPPORTS, HANGER, ETC. TO MATCH ADJACENT SURFACES.
4. PROVIDE SOLID BACKING IN WALL AT ALL LOCATIONS OF WALL MOUNTED ITEMS INCLUDING BUT NOT LIMITED TO CABINETRY, TOILET ACCESSORIS, OWNER PROVIDED ACCESSORIES, ELECTRICAL AND FIRE ALARM DEVICES AND BRACKETS FOR WALL MOUNTED EQUIPMENT. SEE DETAIL 14 / A10.2
5. ALL ELECTRICAL AND DATA DEVICE COVERS TO BE WHITE U.N.O.
6. PROVIDE AND INSTALL RESILIENT BASE (RB-1) AT ALL WALLS EXCEPT AS NOTED.
7. REFER TO ACCESSIBILITY GUIDELINES (G0.30) FOR MOUNTING HEIGHTS EXCEPT AS NOTED.
8. REFER TO CODE REVIEW PLANS (G0.6-G0.7) AND SIGNAGE DETAILS (G0.31) FOR SIGNAGE LOCATION, TYPES, AND INSTALLATION.
9. FOR ROOM IDENTIFICATION AND GENERAL SIGNAGES. SEE SHEETS G0.06 AND G0.07.

RESTROOM ACCESSORY LEGEND

TA1	SOAP DISPENSER
TA2	MIRROR, SEE ELEVATIONS FOR SIZE
TA3	TOILET PAPER DISPENSER
TA4	PAPER TOWEL DISPENSER
TA5	GRAB BARS AT TYPICAL ACCESSIBLE TOILET STALLS
TA7	SANITARY NAPKIN DISPOSAL
TA8	MOP AND BROOM HOLDER
TA9	GRAB BARS AT ACCESSIBLE SHOWER
TA10	FOLDING SHOWER BENCH
TA11	CLOTHES HOOK
TA12	SHOWER CURTAIN, ROD AND HOOKS
TA14	COMBO PAPER TOWEL DISPENSER/TRASH RECEPTACLE
TA17	TRASH RECEPTACLE
TA18	TOILET PAPER DISPENSER WITH SANITARY NAPKIN DISPOSAL, RECESSED
TA19	TOILET SEAT COVER DISPENSER
TA21	SURFACE MOUNTED HAND SANTIZER DISPENSER
TA-4	

KEYNOTES

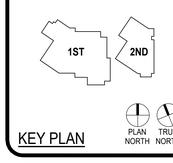
06 83.02	FIBERGLASS REINFORCED PANELING (FRP)
10 56.16	CLOSETMAID METAL MESH PANTRY SYSTEM OR APPROVED EQUAL. INSTALL AS SHOWN IN ELEVATIONS AND PER MANUF. STD. PROVIDE BLOCKING AS REQUIRED., SEE SPECS
12 61.01	DESK AND CHAIRS, N.I.C.

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805-329-3076

FIRE STATION #44
COASTSIDE FIRE PROTECTION DISTRICT

501 STETSON STREET
MOSS BEACH, CA 94038
PLAN CHECK 02 RESPONSE

PLAN CHECK 02 RESPONSE



KEY PLAN

CLIENT
COASTSIDE FIRE PROTECTION DISTRICT
PROJECT NUMBER
230137
DATE 03/13/2026
DRAWN BY: KF/OS CHKED BY: AD

REVISIONS

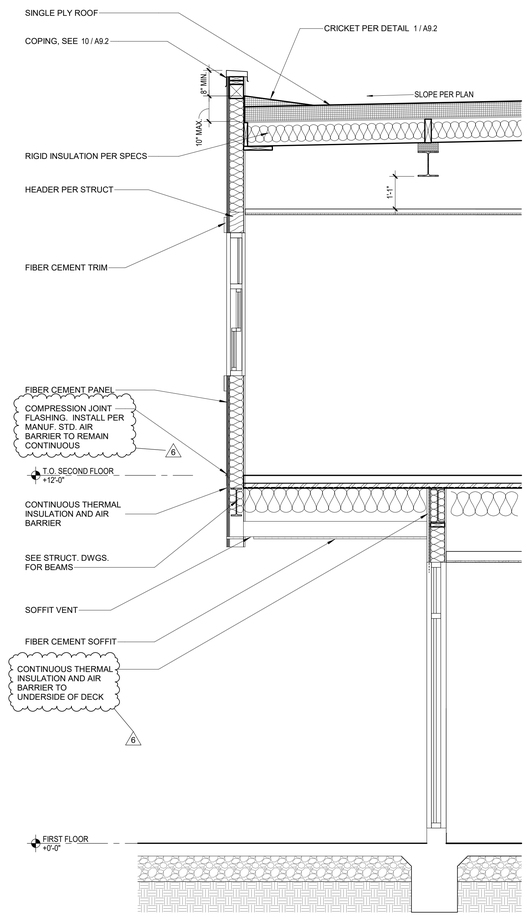
#	DESCRIPTION	DATE
1	PLANCHECK #1 RESPONSE	12/11/25
4	NON-PC REVISION	03/13/26
6	ADDENDUM 6	10/23/2026

INTERIOR ELEVATIONS

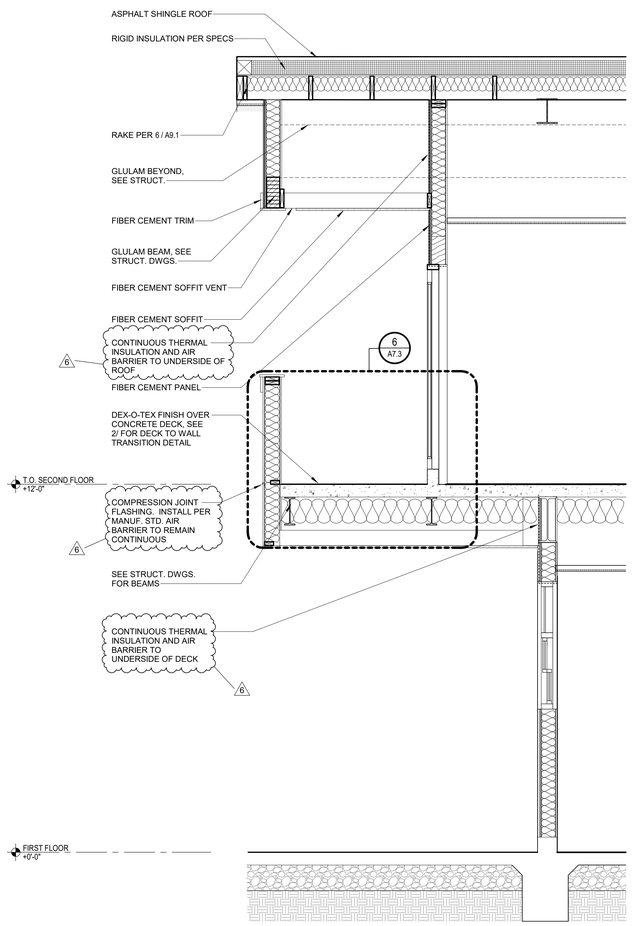
A7.2

This document is for plan review only

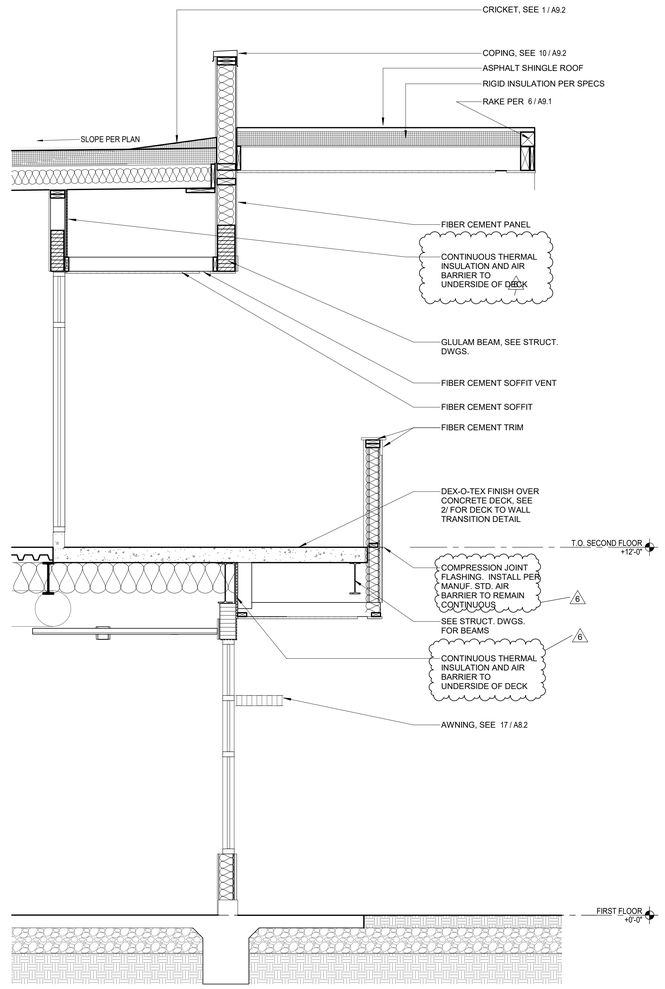
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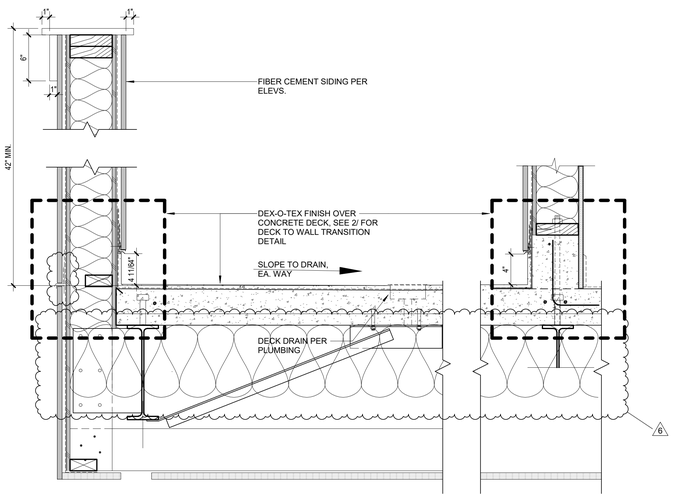
5 SECTION AT ENTRY
SCALE: 1/2" = 1'-0"



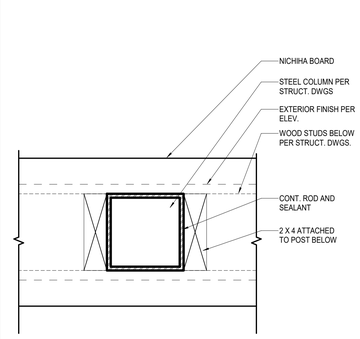
4 SECTION AT BALCONY
SCALE: 1/2" = 1'-0"



1 SECTION AT DECK
SCALE: 1/2" = 1'-0"

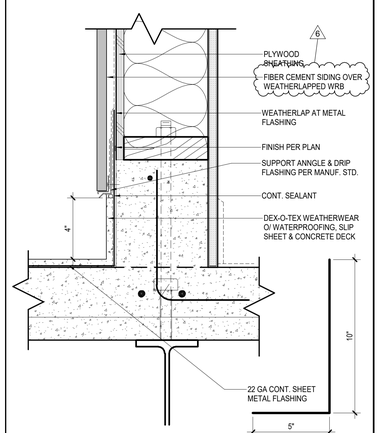


6 SECTION AT BALCONY - Callout 1
SCALE: 1 1/2" = 1'-0"



3 COLUMN AT DECK
SCALE: 3" = 1'-0"

NOTE: PROVIDE PERIMETER TO DECK EDGE TRANSITIONAL FLASHING (DEX-O-TEX DETAIL W3H) AT WALL OPENINGS.



2 DECK TO LOW WALL DETAIL
SCALE: 3" = 1'-0"

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FIRE STATION #44
COASTSIDE FIRE PROTECTION DISTRICT

501 STETSON STREET
MOSS BEACH, CA 94038
PLAN CHECK 02 RESPONSE

COASTSIDE FIRE PROTECTION DISTRICT

PLAN CHECK 02 RESPONSE

1ST 2ND

KEY PLAN
PLAN NORTH
TRUE NORTH

CLIENT
COASTSIDE FIRE PROTECTION DISTRICT
PROJECT NUMBER
230137
DATE 03/13/2026
DRAWN BY: KF/OS CHKED BY: AD

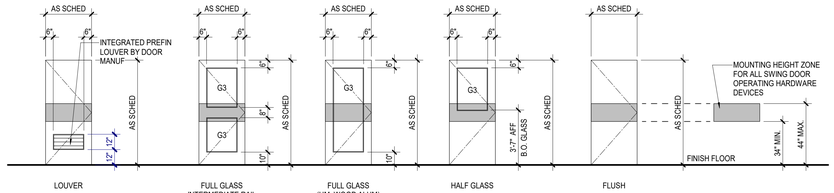
REVISIONS

#	DESCRIPTION	DATE
6	ADDENDUM 6	10/23/2026

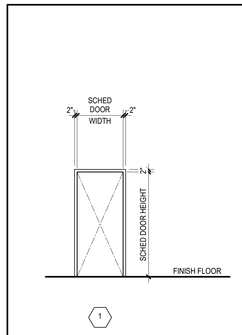
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WALL SECTIONS

A7.3



DOOR PANEL ELEVATION TYPES
SCALE: 1/4" = 1'-0"



DOOR FRAME ELEVATION TYPES
SCALE: 1/4" = 1'-0"

DOOR SCHEDULE

MARK	DOOR PANEL OPENING PAIR/SING	SIZE W	SIZE H	ELEV.	MATL.	DOOR FRAME ELEV.	DOOR FRAME MATL.	DETAILS HEAD	DETAILS JAMB	DETAILS THRESHOLD	H.W.	FIRE RATING LABEL	REMARKS
101A	SING	3'-0"	7'-0"	FG	ALUM		ALUM	18 / A8.2	19 / A8.2	15 / A8.2	1.0		CARD READER, PANIC/PUSH
101B	SING	3'-0"	7'-0"	F	HM	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	10.0		CARD READER
102A	SING	3'-0"	7'-0"	F	WS	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	17.0		
103A	SING	3'-0"	7'-0"	HG	HM	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	15.0		
106A	SING	3'-0"	7'-0"	HG	HM	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	20.0		
106B	SING	3'-0"	7'-0"	FG	ALUM		ALUM	2 / A8.2	19 / A8.2	15 / A8.2	1.0		CARD READER, PANIC/PUSH
106C	SING	6'-0"	7'-0"	ORD	STL		STL	28 / A8.3	25 / A8.3	15 / A8.2	25.0		
107A	SING	3'-0"	7'-0"	HG	HM	1	HM	2 / A8.2	3 & 4 / A8.2	5 / A8.2	2.0		CARD READER, PANIC/PUSH
108A	SING	3'-0"	7'-0"	F	WS	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	17.0		
109A	SING	3'-0"	7'-0"	F	HM	1	HM	2 / A8.2	3 & 4 / A8.2	5 / A8.2	3.0		PANIC/PUSH
110A	SING	3'-0"	7'-0"	F	HM	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	3.0		
110B	SING	3'-0"	7'-0"	HG	HM	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	3.0		
111A	SING	3'-0"	7'-0"	F	WS	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	11.0		
112A	SING	3'-0"	7'-0"	F	WS	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	14.0		
113A	SING	3'-0"	7'-0"	F	WS	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	11.0		
114A	SING	3'-0"	7'-0"	F	WS	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	13.0		
115A	SING	3'-0"	7'-0"	FG	ALUM		ALUM	8 / A8.3	9 / A8.3	20 / A8.3	16.0		CARD READER
115B	SING	3'-0"	7'-0"	F	HM	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	3.0		
116A	SING	3'-0"	7'-0"	F	HM	1	HM	2 / A8.2	3 & 4 / A8.2	5 / A8.2	4.0		PANIC/PUSH
116B	SING	3'-0"	7'-0"	HG	HM	1	HM	2 / A8.2	3 & 4 / A8.2	5 / A8.2	2.0		CARD READER
116C	PAIR	6'-0"	7'-8"	F	HM	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	6.0		
116D	SING	28'-0"	14'-0"	ORD	STL		STL	28 / A8.3	25 / A8.3	15 / A8.2	25.0		
116E	PAIR	14'-0"	14'-0"	BIF	STL		STL	19 / A8.3	19 / A8.3	19 / A8.3	25.0		
116F	PAIR	14'-0"	14'-0"	BIF	STL		STL	19 / A8.3	19 / A8.3	19 / A8.3	25.0		
117A	SING	6'-0"	7'-0"	ORD	STL		STL	28 / A8.3	25 / A8.3	15 / A8.2	25.0		
118A	SING	3'-0"	7'-0"	F	HM	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	7.0		
119A	SING	3'-0"	7'-0"	F	HM	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	4.0		
120A	SING	3'-0"	7'-0"	F	HM	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	9.0		
121A	SING	3'-0"	7'-0"	F	HM	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	5.0		
122A	SING	3'-0"	7'-0"	F	HM	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	5.0		
124A	SING	3'-0"	7'-0"	F	HM	1	HM	2 / A8.2	3 & 4 / A8.2	5 / A8.2	5.0		
201A	SING	3'-0"	7'-0"	F	WS	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	21.0	2 HR	
201B	SING	3'-0"	7'-0"	FG	HM	1	HM	2 / A8.2	4 / A8.2	5 / A8.2	22.0		
203A	SING	3'-0"	7'-0"	F	WS	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	23.0		
204A	SING	3'-0"	7'-0"	F	WS	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	23.0	1 HR	
205A	SING	3'-0"	7'-0"	F	WS	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	17.0		
207A	SING	3'-0"	7'-0"	F	WS	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	23.0		
209A	SING	3'-0"	7'-0"	F	WS	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	21.0	1 HR	
209B	SING	3'-0"	7'-0"	FG	HM	1	HM	2 / A8.2	4 / A8.2	5 / A8.2	22.0		
209C	SING	3'-0"	7'-0"	F	WS	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	24.0		
210A	SING	3'-0"	7'-0"	F	WS	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	21.0	1 HR	
211A	SING	3'-0"	7'-0"	F	WS	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	21.0	1 HR	
212A	SING	3'-0"	7'-0"	F	WS	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	19.0		
213A	SING	3'-0"	7'-0"	HG	HM	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	20.0		
214A	SING	3'-0"	7'-0"	F	WS	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	17.0		
215A	SING	3'-0"	7'-0"	F	WS	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	12.0		
216A	SING	3'-0"	7'-0"	F	WS	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	11.0		
217A	SING	3'-0"	7'-0"	F	WS	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	12.0		
218A	SING	3'-0"	7'-0"	FG	WS	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	18.0		
221A	SING	3'-0"	7'-0"	FG	ALUM	1	HM	3 / A8.2	4 / A8.2	5 / A8.2	9.0		

DOOR SCHEDULE REMARKS

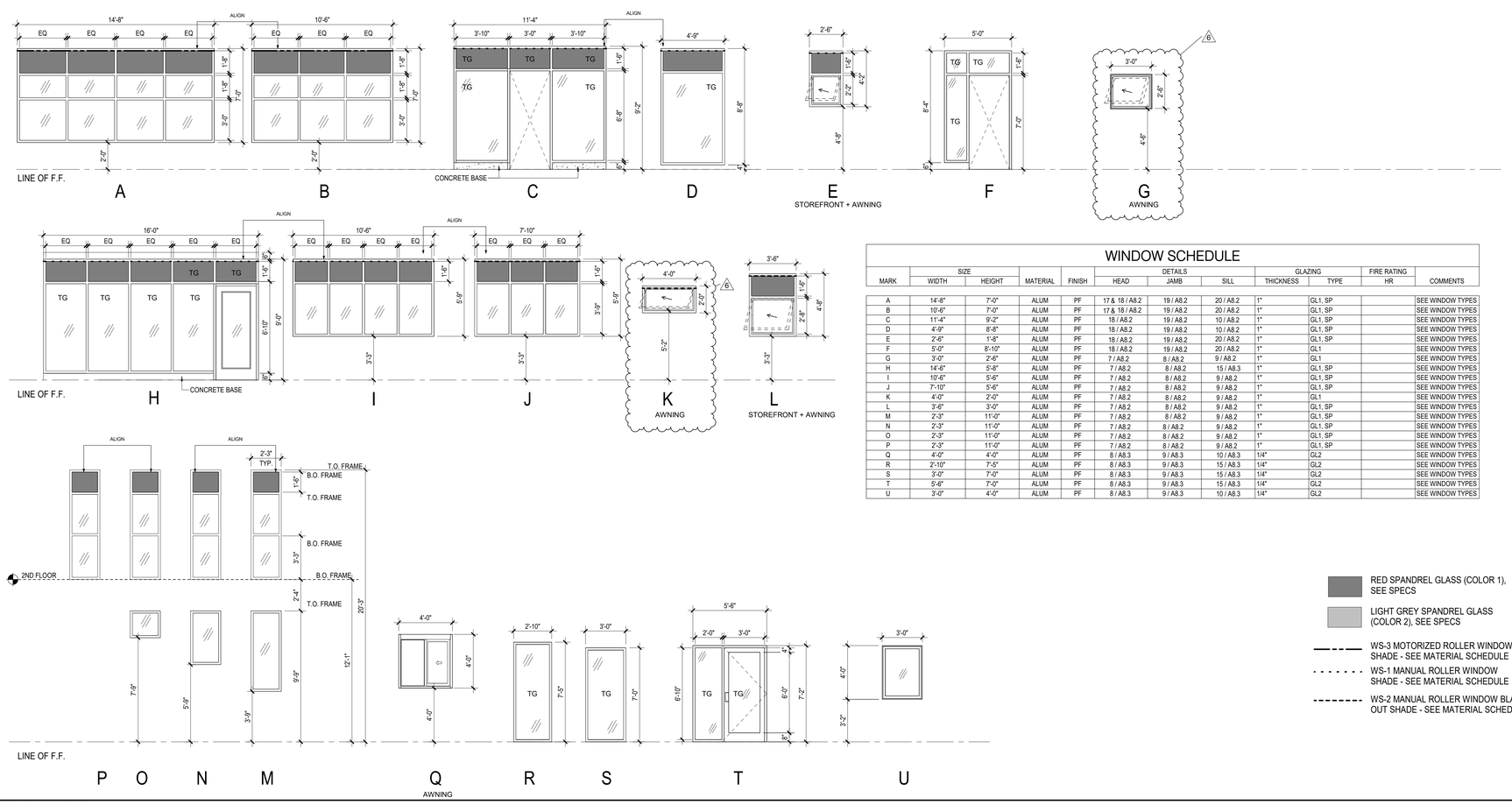
A. PANIC EXIT HARDWARE
B. NOT AN ENTRY DOOR, EXIT ONLY DOOR WITH LOCKING OPERABLE HARDWARE ON SWING-OUT SIDE OF DOOR
C. NO LOCKING HARDWARE
D. ELEC. DOOR OPENER
E. ELEC. CONTROLLED ACCESS HARDWARE WITH CARD READER
F. ELEC. CONTROLLED ACCESS HARDWARE WITH PUSH-BUTTON
G. ELEC. CONTROLLED ACCESS HARDWARE, ROUGH-IN ONLY
H. KEYED REMOVABLE CENTER MULLION
I. CENTER ASTRAGAL
J. 180 DEGREE SWING
K. CONT. HINGE
L. WEATHER-STRIP SEAL
M. FIRE SMOKE SEAL
N. SOUND SEAL
O. PEEP HOLE
P. DOOR BUZZER
Q. DOOR CHIME ON OPEN
R. MANUAL HOLD-OPEN
S. MAGNETIC HOLD-OPEN, CONNECT TO FIRE ALARM
T. MAGNETIC HOLD-OPEN, CONNECT TO SECURITY SYSTEM
U. INSULATED DOOR
V. SOUND RATED DOOR ASSEMBLY, STC AS SPECIFIED
W. WINDSTORM DOOR HARDWARE SHALL BE TESTED AS PART OF A COMPLETE DOOR OPENING ASSEMLBY. THE TESTED DOOR OPENING ASSEMBLY SHALL INCLUDE DOOR HARDWARE. THE ENTIRE DOOR OPENING, INCLUDING DOOR HARDWARE, SHALL BE BY DOOR MANUF.
X. ACOUSTICAL GLASS TO MEET FIRE DOOR ASSEMBLY REQUIREMENTS FOR FIRE RATING INDICATED
Y. MANUAL PUSH-UP OPERATION
Z. ELEC MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON ONE SIDE OF DOOR ONLY
AA. ELEC MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON BOTH SIDES OF DOOR
BB. ELEC MOTOR OPERATION WITH PUSH-BUTTON CONTROL ON ONE SIDE OF DOOR ONLY
CC. PANIC EXIT PUSH-BUTTON ON ONE SIDE OF DOOR ONLY
DD. AUTOMATIC OPEN ON FIRE ALARM ACTIVATION
EE. AUTOMATIC CLOSE ON FIRE ALARM ACTIVATION
FF. FAIL SAFE IN OPEN POSITION
GG. FAIL SAFE IN CLOSED POSITION
HH. MAXIMUM OCCUPANCY SIGNAGE NEAR DOOR
II. SIGNAGE ON DOOR TO READ "NOT AN EXIT"

DOOR GENERAL NOTES

A. THE FLOOR OR LANDING SHALL NOT BE MORE THAN 1/2 INCH LOWER THAN THE THRESHOLD OF THE DOORWAY. CHANGE IN LEVEL BETWEEN 1/4 INCH AND 1/2 INCH SHALL BE BEVELED WITH A SLOPE NO GREATER THAN ONE UNIT VERTICAL TO 2 UNITS HORIZONTAL.

B. MAXIMUM OPERATING FORCE SHALL BE 5 POUNDS.

C. DOOR HARDWARE SHALL BE OPERABLE WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST TO OPERATE.



WINDOW SCHEDULE

MARK	SIZE WIDTH	SIZE HEIGHT	MATERIAL	FINISH	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	GLAZING THICKNESS	GLAZING TYPE	FIRE RATING HR	COMMENTS
A	14'-8"	7'-0"	ALUM	PF	17 & 18 / A8.2	19 / A8.2	20 / A8.2	1"	GL1, SP		SEE WINDOW TYPES
B	10'-6"	7'-0"	ALUM	PF	17 & 18 / A8.2	19 / A8.2	20 / A8.2	1"	GL1, SP		SEE WINDOW TYPES
C	11'-4"	9'-2"	ALUM	PF	18 / A8.2	19 / A8.2	10 / A8.2	1"	GL1, SP		SEE WINDOW TYPES
D	4'-9"	8'-8"	ALUM	PF	18 / A8.2	19 / A8.2	10 / A8.2	1"	GL1, SP		SEE WINDOW TYPES
E	2'-6"	1'-8"	ALUM	PF	18 / A8.2	19 / A8.2	20 / A8.2	1"	GL1, SP		SEE WINDOW TYPES
F	5'-0"	8'-10"	ALUM	PF	18 / A8.2	19 / A8.2	20 / A8.2	1"	GL1		SEE WINDOW TYPES
G	3'-0"	2'-6"	ALUM	PF	7 / A8.2	8 / A8.2	9 / A8.2	1"	GL1		SEE WINDOW TYPES
H	14'-6"	5'-8"	ALUM	PF	7 / A8.2	8 / A8.2	15 / A8.3	1"	GL1, SP		SEE WINDOW TYPES
I	10'-6"	5'-6"	ALUM	PF	7 / A8.2	8 / A8.2	9 / A8.2	1"	GL1, SP		SEE WINDOW TYPES
J	7'-10"	5'-6"	ALUM	PF	7 / A8.2	8 / A8.2	9 / A8.2	1"	GL1, SP		SEE WINDOW TYPES
K	4'-0"	2'-0"	ALUM	PF	7 / A8.2	8 / A8.2	9 / A8.2	1"	GL1		SEE WINDOW TYPES
L	3'-6"	3'-0"	ALUM	PF	7 / A8.2	8 / A8.2	9 / A8.2	1"	GL1, SP		SEE WINDOW TYPES
M	2'-3"	11'-0"	ALUM	PF	7 / A8.2	8 / A8.2	9 / A8.2	1"	GL1, SP		SEE WINDOW TYPES
N	2'-3"	11'-0"	ALUM	PF	7 / A8.2	8 / A8.2	9 / A8.2	1"	GL1, SP		SEE WINDOW TYPES
O	2'-3"	11'-0"	ALUM	PF	7 / A8.2	8 / A8.2	9 / A8.2	1"	GL1, SP		SEE WINDOW TYPES
P	2'-3"	11'-0"	ALUM	PF	7 / A8.2	8 / A8.2	9 / A8.2	1"	GL1, SP		SEE WINDOW TYPES
Q	4'-0"	4'-0"	ALUM	PF	8 / A8.3	9 / A8.3	10 / A8.3	1/4"	GL2		SEE WINDOW TYPES
R	2'-10"	7'-5"	ALUM	PF	8 / A8.3	9 / A8.3	15 / A8.3	1/4"	GL2		SEE WINDOW TYPES
S	3'-0"	7'-0"	ALUM	PF	8 / A8.3	9 / A8.3	15 / A8.3	1/4"	GL2		SEE WINDOW TYPES
T	5'-6"	7'-0"	ALUM	PF	8 / A8.3	9 / A8.3	15 / A8.3	1/4"	GL2		SEE WINDOW TYPES
U	3'-0"	4'-0"	ALUM	PF	8 / A8.3	9 / A8.3	10 / A8.3	1/4"	GL2		SEE WINDOW TYPES

RED SPANDREL GLASS (COLOR 1), SEE SPECS
LIGHT GREY SPANDREL GLASS (COLOR 2), SEE SPECS
WS-3 MOTORIZED ROLLER WINDOW SHADE - SEE MATERIAL SCHEDULE
WS-1 MANUAL ROLLER WINDOW SHADE - SEE MATERIAL SCHEDULE
WS-2 MANUAL ROLLER WINDOW BLACK-OUT SHADE - SEE MATERIAL SCHEDULE

WINDOW SCHED COLUMN REFERENCE GUIDE

1. SYMBOL MARK: ALPHABETICAL DESIGNATION ASSIGNED TO SPECIFIC WINDOW AS SHOWN IN ELEVATION.
2. SIZE: OVERALL WIDTH AND HEIGHT OF WINDOW IN FEET AND INCHES.
3. MATERIAL: INDICATES MATERIAL FROM WHICH FRAME IS CONSTRUCTED, I.E., HM - HOLLOW METAL, WD - WOOD, AL - ALUMINUM, ETC.
4. GLASS: DESIGNATES TYPE OF GLASS TO BE INSTALLED IN WINDOW, I.E., TG - TEMPERED GLASS, LAM - LAMINATED GLASS, WGL - WIRE GLASS, INSUL - INSULATING GLASS, ETC.
5. DETAILS: REFERENCE NUMBERS FOR SECTIONS AS CONDITIONS EXIST AT THE WALL, SILL, OR HEAD OF FRAMES WITH ANY UNUSUAL DETAIL REFERENCED UNDER SEPARATE HEADING 5d.
6. WINDOW FRAME FIRE RATING: DESIGNATES ALPHABETICAL FIRE RESISTANCE RATING CLASSIFICATION LABEL REQUIRED FOR WINDOW FRAME WITH TIME PERIOD REQUIRED IN HOURS.
7. REMARKS: REFERENCES SPECIAL, UNUSUAL OR ABSTRACT CONDITIONS WHICH EXIST AND ARE NOT COVERED IN SCHEDULE ITEMS 1 THRU 6 REFER TO REMARKS REFERENCE SCHEDULE FOR NUMERICAL DESIGNATIONS.

WINDOW NOTES:

1. PROVIDE NAIL FIN ADAPTER FOR ALL ALUMINUM WINDOWS.
2. PROVIDE PENETRATION FLASHINGS AT ALL EXTERIOR OPENINGS.

GLAZING TYPES:

TYPE **GL1**: INSULATED GLASS (EXTERIOR): ONE-INCH SEALED INSULATED UNIT CONSISTING OF AN EXTERIOR LITE OF 1/4" LOW-E TINTED TEMPERED FLOAT GLASS, 1/2" GAS FILLED AIR SPACE, AND 1/4" CLEAR TEMPERED FLOAT GLASS INTERIOR LITE

TYPE **GL2**: CLEAR TEMPERED GLASS: 1/4" CLEAR TEMPERED FLOAT GLASS

TYPE **SP**: CERAMIC COATED SPANDREL GLASS (EXTERIOR): ONE-INCH INSULATING SPANDREL UNIT CONSISTING OF 1/4" CLEAR, 1/2" AIR SPACE AND 1/4" CLEAR WITH SPANDREL COLOR TO BE SELECTED FROM MANUFACTURERS FULL CUSTOM COLOR RANGE.

MATERIAL / FINISH ABBREVIATIONS

ALUM	=	ALUMINUM
AN	=	ANODIZED
PF	=	PRE-FINISHED FACTORY FINISH
HM	=	HOLLOW METAL
PTD	=	PAINTED
STL	=	STEEL
TG	=	TEMPERED GLAZING
WV	=	WOOD, VENEER
WS	=	WOOD, SOLID CORE
Y	=	YES

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

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FIRE STATION #44
COASTSIDE FIRE PROTECTION DISTRICT
501 STETSON STREET
MOSS BEACH, CA 94038
PLAN CHECK 02 RESPONSE

PLAN CHECK 02 RESPONSE



KEY PLAN
PLAN NORTH
TRUE NORTH

This document is for plan review only

CLIENT
COASTSIDE FIRE PROTECTION DISTRICT
PROJECT NUMBER
230137
DATE 03/13/2026
DRAWN BY: KF/OS CHKED BY: AD

REVISIONS

#	DESCRIPTION	DATE
1	PLANCHECK #1 RESPONSE	12/11/25
6	ADDENDUM 6	10/23/2026

DOOR & WINDOW SCHEDULES

A8.1

10/23/2026 6:15:10 PM

STEP ONE:

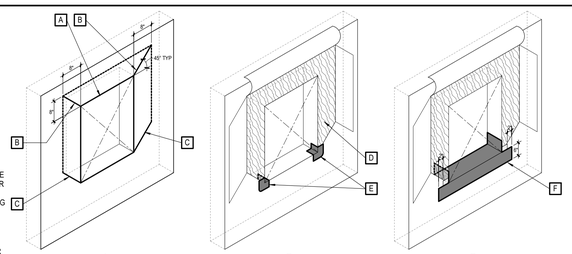
A. CUT OPENING IN W.R.B. AROUND PERIMETER OF ROUGH OPENING
B. CUT HEAD FLAP AT 45 TO EXPOSE 8" OF SHEATHING, FLIP HEAD FLAP UP AND TEMPORARILY SECURE AS SHOWN IN STEP 2
C. CUT SIDE FLAPS AT 45 TO EXPOSE 8" OF SHEATING, FLIP SIDE FLAPS BACK AND TEMPORARILY SECURE WITH W.R.B. TAPE

STEP TWO:

D. PRIME ALL SUBSTRATE TO RECEIVE SELF-ADHERED WEATHER BARRIER FLASHING (W.B.F.)
E. INSTALL PREFABRICATED FLASHING CORNERS

STEP THREE:

F. INSTALL SELF-ADHERED WEATHER BARRIER SILL FLASHING (W.B.F.) FULL DEPTH OF SILL



1. 2. 3.

STEP FOUR:

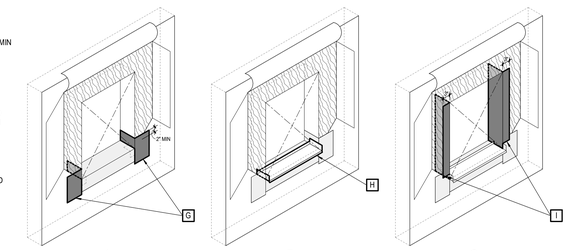
G. INSTALL W.B.F. CORNER REINFORCING STRIPS, EXTEND 2" MIN BEYOND CORNERS

STEP FIVE:

H. INSTALL METAL SILL PAN WITH TURNED UP SIDE AND END DAMS. FASTEN TO JAMBS THROUGH END DAMS. DO NOT FASTEN THROUGH SILL. RE: 11 / A8.2

STEP SIX:

I. W.B.F. FULL DEPTH OF JAMB FRAMING. LAP OVER SILL PAN END DAMS.



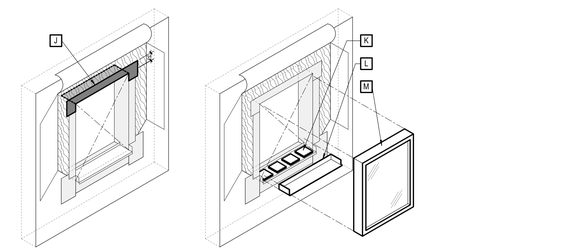
4. 5. 6.

STEP SEVEN:

J. CUT AND FOLD W.B.F. INTO ROUGH OPENING HEAD, FULL DEPTH OF FRAMING.

STEP EIGHT:

K. INTERMITTENT PLASTIC SHIMS
L. METAL SILL RECEPTOR (WHERE OCCURS), FASTEN TO JAMBS THROUGH END DAMS, DO NOT FASTEN THROUGH SILL
M. BLOCK FRAME WINDOW, FASTEN THROUGH JAMBS & HEAD, DO NOT FASTEN THROUGH SILL



7. 8.

STEP NINE:

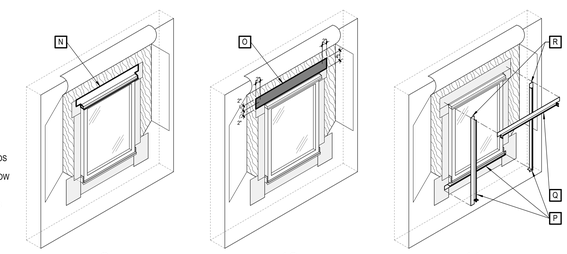
N. FORMED METAL HEAD FLASHING RE: 11 / A8.2

STEP TEN:

O. LAP W.B.F. OVER METAL HEAD FLASHING FLANGE

STEP ELEVEN:

P. CASING BEAD, CUT EXTENDED ENDS & FORM TABS TO LAP SHINGLE FASHION PER ENLARGEMENT BELOW
Q. WEEP SCREED CASING BEAD AT HEAD
R. FULLY SEAL CORNER LAPS & TABS WITH BUTYL TAPE



9. 10. 11.

STEP TWELVE:

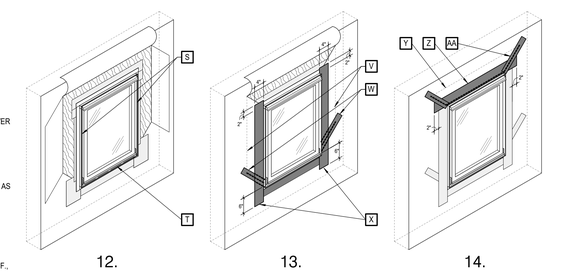
S. CONTINUOUS SEALANT & BACKER ROD AT JAMBS
T. INTERMITTENT SEALANT AT SILL
U. DO NOT SEAL BETWEEN HEAD FLASHING AND WEEP SCREED CASING BEAD

STEP THIRTEEN:

V. FOLD W.R.B. JAMB FLAPS BACK OVER CASING BEAD FLANGE AND TRIM EXCESS TO ALLOW 1" EXPOSED FLANGE
W. SEAL CUTS WITH S.A.F. STRIP FLASHING
X. SEAL W.R.B. JAMB FLAPS WITH W.R.F., EXTEND BEYOND OPENING AS SHOWN

STEP FOURTEEN:

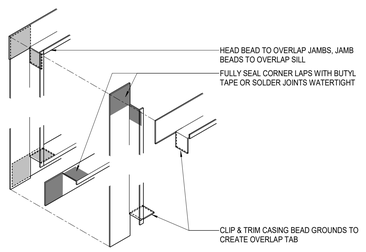
Y. FOLD W.R.B. HEAD FLAP OVER CASING BEAD FLANGE AND TRIM EXCESS TO ALLOW 1" EXPOSED FLANGE LEG
Z. SEAL W.R.B. HEAD FLAP WITH W.R.F., LAP CASING BEAD 1" MIN, EXTEND BEYOND JAMB FLASHING AS SHOWN
AA. SEAL CUTS WITH S.A.F. STRIP FLASHING



12. 13. 14.

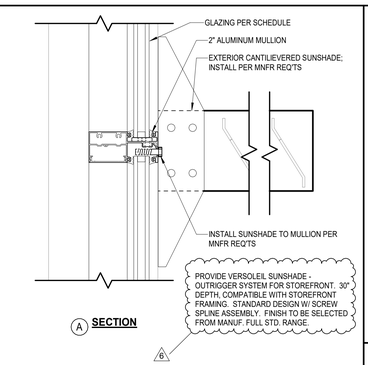
NOTES

1. THIS SEQUENCE REPRESENTS A TYPICAL WINDOW CONDITION, SEE DETAILS FOR PROJECT SPECIFIC REQUIREMENTS
2. REFER TO DETAILS FOR METAL TRIM TYPES, FASTENING REQUIREMENTS AND METAL FLASHING CONFIGURATIONS
3. ALL FLASHING FASTENERS SHALL PENETRATE THROUGH ONE LAYER (MIN) OF W.R.F. AND WITH A SECOND LAYER LAPPED OVER FASTENER HEADS 1" MIN.
4. ALL LAPS AND EXPOSED EDGES OF SELF-ADHERED W.R.F. SHALL BE SEALED PER MANUFACTURER'S INSTRUCTIONS
5. UTILIZE THIS PROCEDURE SEQUENCE FOR EXTERIOR DOOR OPENINGS

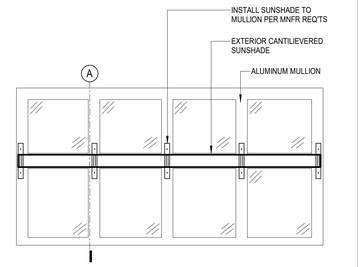


CASING BEAD OVERLAP

30 TYPICAL OPENING FLASHING
SCALE: 1/2" = 1'-0"

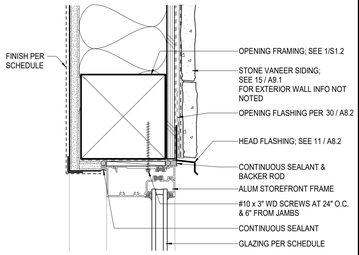


A **SECTION**

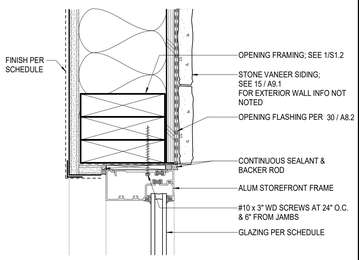


B **WINDOW ELEVATION**
NTS

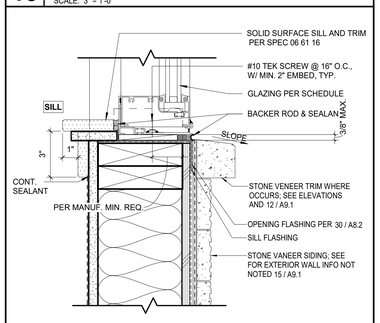
17 SUNSHADE AT ALUM WINDOW
SCALE: 3" = 1'-0"



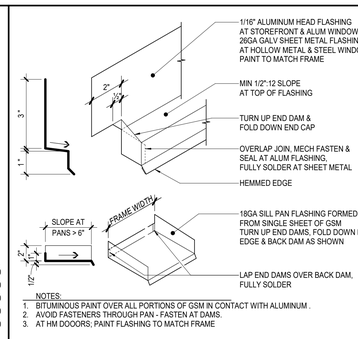
18 EXT ALUM HEAD - STONE
SCALE: 3" = 1'-0"



19 EXT ALUM JAMB - STONE
SCALE: 3" = 1'-0"



20 EXT ALUM WINDOW SILL - STONE
SCALE: 3" = 1'-0"

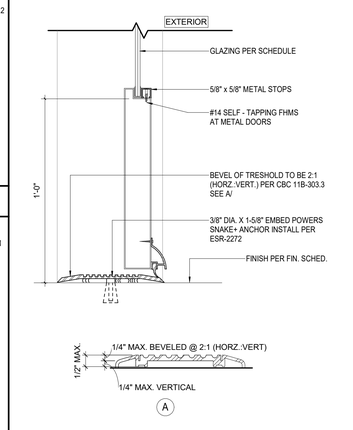


NOTES:
1. BITUMINOUS PAINT OVER ALL PORTIONS OF GSM IN CONTACT WITH ALUMINUM .
2. AVOID FASTENERS THROUGH PAN - FASTEN AT DAMS.
3. AT HM DOOORS; PAINT FLASHING TO MATCH FRAME

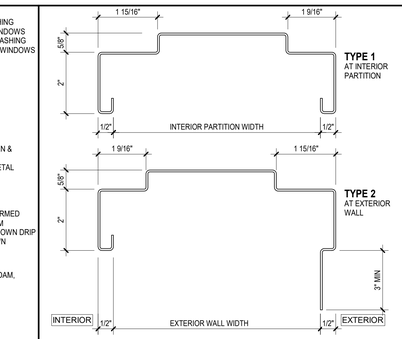
11 METAL HEAD & SILL PAN FLASHING
SCALE: NOT TO SCALE

NOT USED

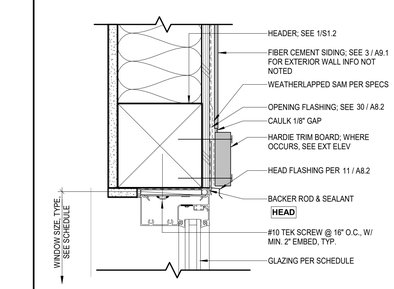
15 EXT ALUM DOOR THRESHOLD
SCALE: 3" = 1'-0"



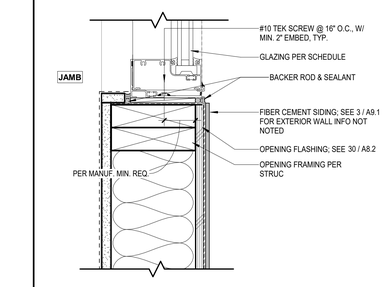
NOTE: SET EXTERIOR DOOR THRESHOLDS WITH FULL-WIDTH BEAD OF ELASTOMERIC SEALANT ON EACH POINT OF CONTACT WITH FLOOR, PROVIDING A CONTINUOUS WEATHER SEAL, PER SPECS.



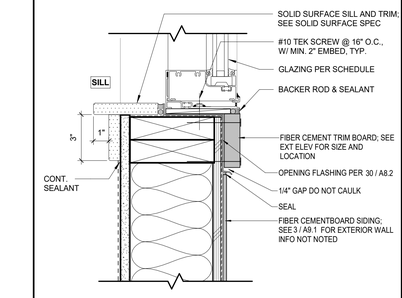
6 HM DOOR FRAME PROFILES
SCALE: 6" = 1'-0"



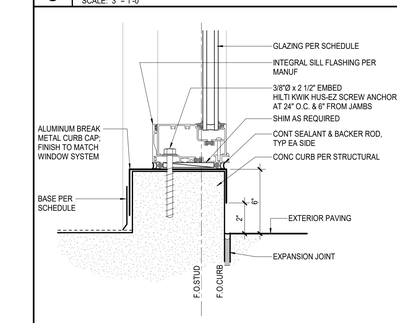
7 EXT ALUM HEAD - FIBER CEMENT W/ TRIM
SCALE: 3" = 1'-0"



8 EXT ALUM JAMB - FIBER CEMENT
SCALE: 3" = 1'-0"

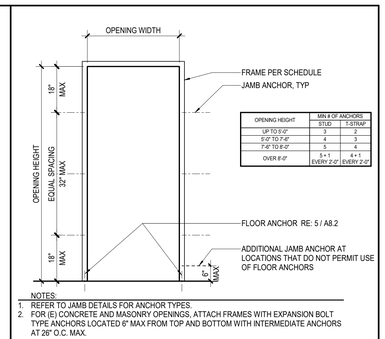


9 EXT ALUM SILL - FIBER CEMENT W/ TRIM
SCALE: 3" = 1'-0"



10 EXT ALUM WINDOW SILL - CURB
SCALE: 3" = 1'-0"

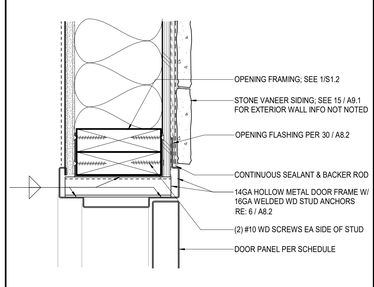
1 FRAME ANCHOR LOCATIONS
SCALE: 1/2" = 1'-0"



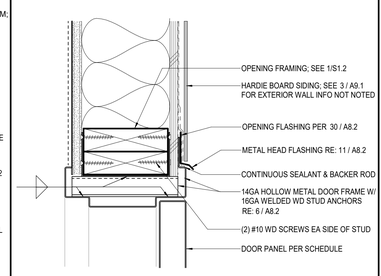
OPENING HEIGHT	MIN # OF ANCHORS	
	STUD	T-STRAP
UP TO 5'-0"	3	2
5'-0" TO 7'-6"	4	3
7'-6" TO 8'-0"	5	4
OVER 8'-0"	5 + 1 EVERY 2'-0"	4 + 1 EVERY 2'-0"

NOTES:
1. REFER TO JAMB DETAILS FOR ANCHOR TYPES.
2. FOR (E) CONCRETE AND MASONRY OPENINGS, ATTACH FRAMES WITH EXPANSION BOLT TYPE ANCHORS LOCATED 6" MAX FROM TOP AND BOTTOM WITH INTERMEDIATE ANCHORS AT 26" O.C. MAX.

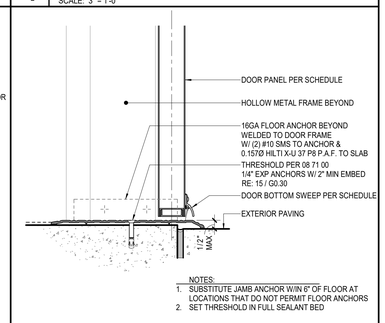
2 EXT HM DOOR HEAD - FIBER CEMENT
SCALE: 3" = 1'-0"



3 EXT HM DOOR JAMB - STONE
SCALE: 3" = 1'-0"



4 EXT HM DOOR JAMB - FIBER CEMENT
SCALE: 3" = 1'-0"



NOTES:
1. SUBSTITUTE JAMB ANCHOR W/IN 6" OF FLOOR AT LOCATIONS THAT DO NOT PERMIT FLOOR ANCHORS
2. SET THRESHOLD IN FULL SEALANT BED

5 EXTERIOR HM DOOR THRESHOLD
SCALE: 3" = 1'-0"

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FIRE STATION #44
COASTSIDE FIRE PROTECTION DISTRICT

501 STETSON STREET
MOSS BEACH, CA 94038
PLAN CHECK 02 RESPONSE

COASTSIDE FIRE PROTECTION DISTRICT EST 2022

PLAN CHECK 02 RESPONSE

1ST 2ND

KEY PLAN
PLAN NORTH
TRUE NORTH

CLIENT
COASTSIDE FIRE PROTECTION DISTRICT
PROJECT NUMBER
230137
DATE 03/13/2026
DRAWN BY: KF/OS CHKED BY: AD

REVISIONS

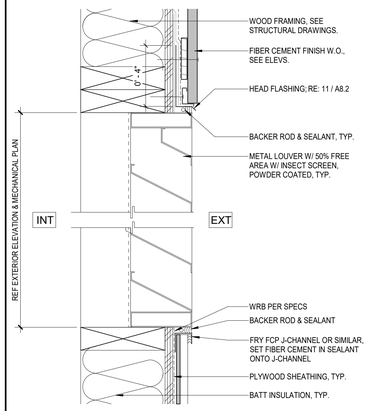
#	DESCRIPTION	DATE
6	ADDENDUM 6	10/23/2026

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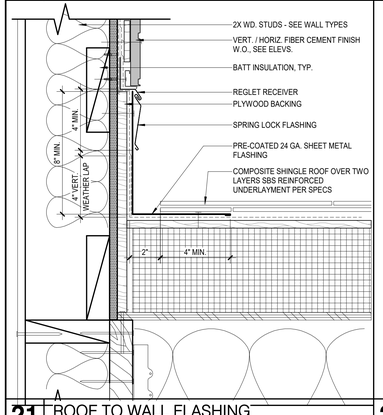
EXTERIOR DOOR & WINDOW DETAILS

A8.2

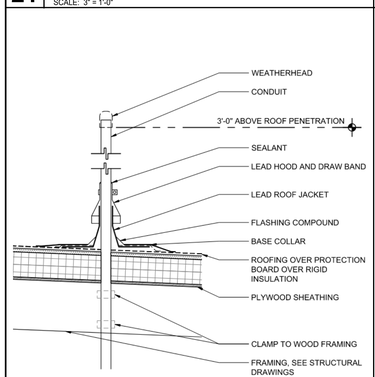
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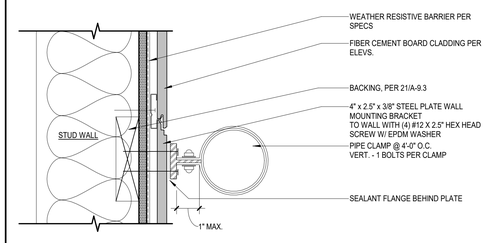
18 WALL LOUVER @ STUD WALL
SCALE: 3" = 1'-0"



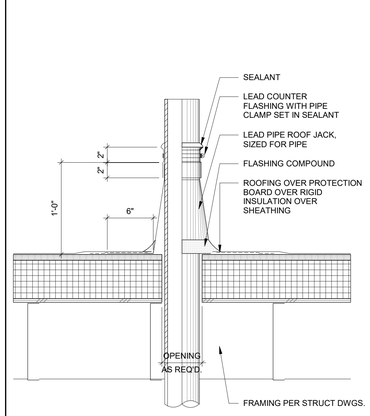
21 ROOF TO WALL FLASHING
SCALE: 3" = 1'-0"



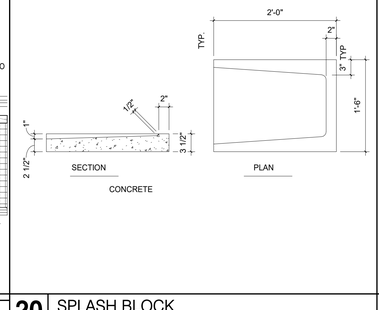
22 CONDUIT AT ROOF
SCALE: 1" = 1'-0"



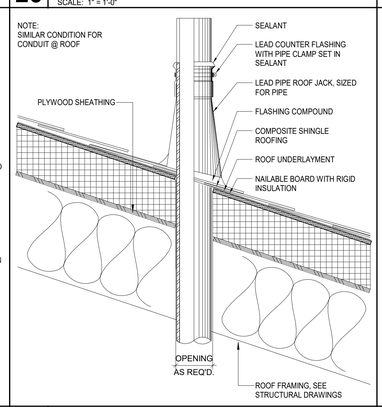
24 EXTERIOR - DRAIN SUPPORT
SCALE: 3" = 1'-0"



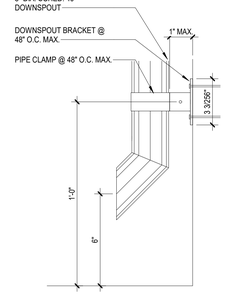
19 PIPE ROOF VENT
SCALE: 1 1/2" = 1'-0"



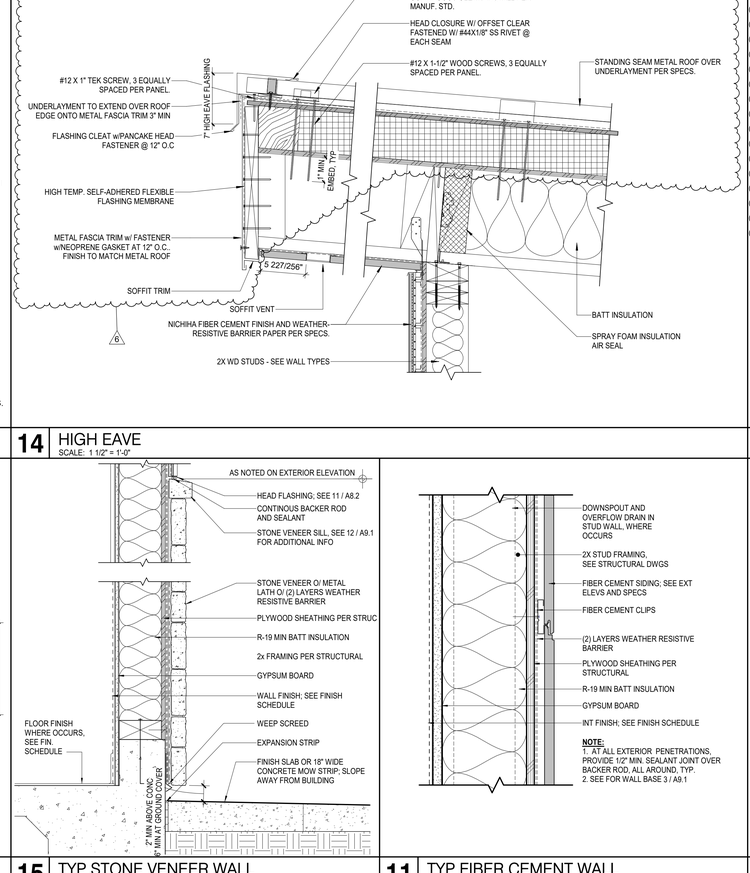
20 SPLASH BLOCK
SCALE: 1" = 1'-0"



23 PIPE ROOF VENT
SCALE: 1 1/2" = 1'-0"



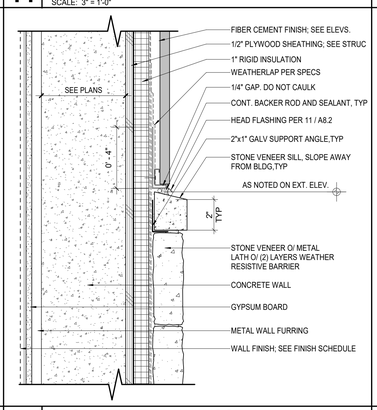
17 HIGH EAVE AT WALL
SCALE: 3" = 1'-0"



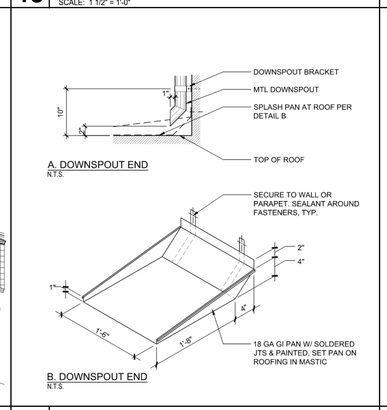
14 HIGH EAVE
SCALE: 1 1/2" = 1'-0"

15 TYP STONE VENEER WALL
SCALE: 1 1/2" = 1'-0"

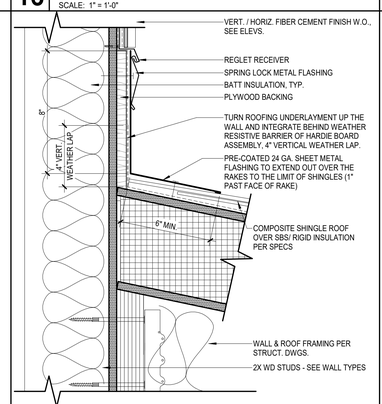
11 TYP FIBER CEMENT WALL
SCALE: 3" = 1'-0"



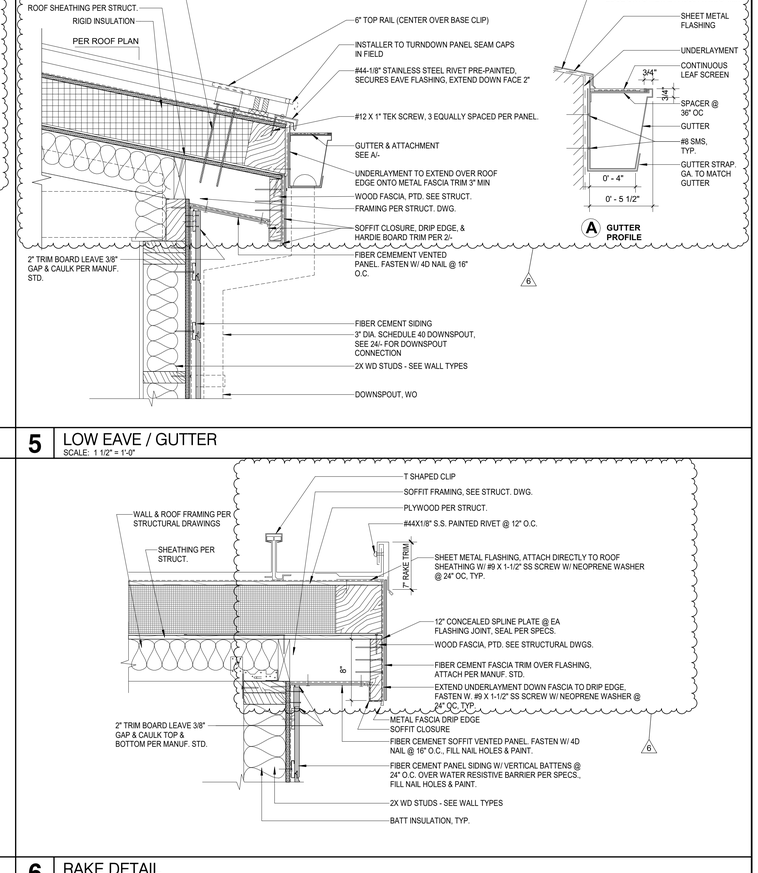
12 STONE VENEER WAINSCT
SCALE: 3" = 1'-0"



16 SPLASH PAN
SCALE: 1" = 1'-0"



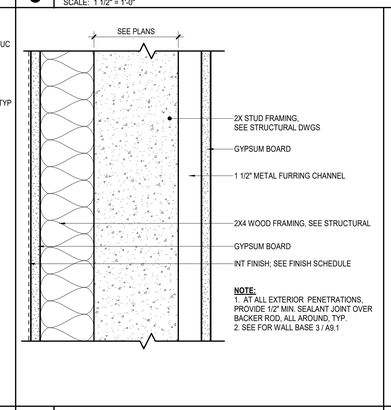
17 HIGH EAVE AT WALL
SCALE: 3" = 1'-0"



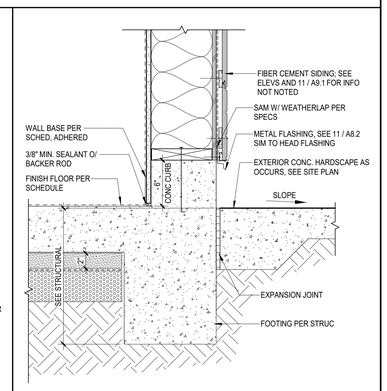
A GUTTER PROFILE

5 LOW EAVE / GUTTER
SCALE: 1 1/2" = 1'-0"

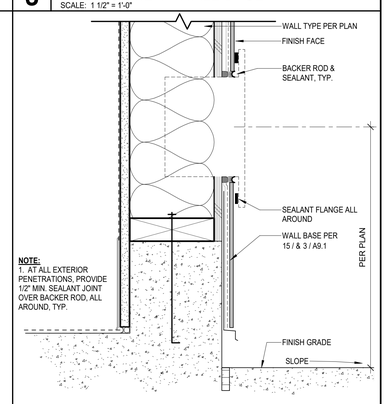
6 RAKE DETAIL
SCALE: 1 1/2" = 1'-0"



7 APP BAY WALL
SCALE: 3" = 1'-0"



3 FIBER CEMENT WALL BASE
SCALE: 1 1/2" = 1'-0"



4 TYPICAL PENETRATION
SCALE: 3" = 1'-0"

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FIRE STATION #44
COASTSIDE FIRE PROTECTION DISTRICT

501 STETSON STREET
MOSS BEACH, CA 94038
PLAN CHECK 02 RESPONSE

COASTSIDE FIRE PROTECTION DISTRICT

PLAN CHECK 02 RESPONSE

1ST 2ND

KEY PLAN — PLAN NORTH — TRUE NORTH

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CLIENT
COASTSIDE FIRE PROTECTION DISTRICT
PROJECT NUMBER
230137
DATE 03/13/2026
DRAWN BY: KF/OS CHKED BY: AD

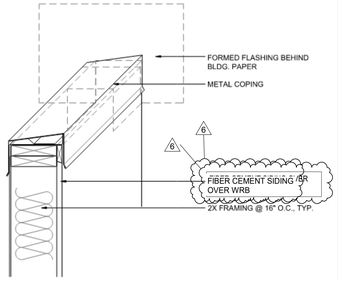
REVISIONS

#	DESCRIPTION	DATE
6	ADDENDUM 6	10/23/2026

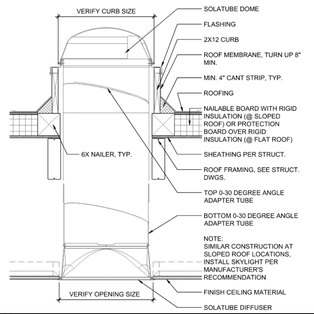
EXTERIOR DETAILS

A9.1

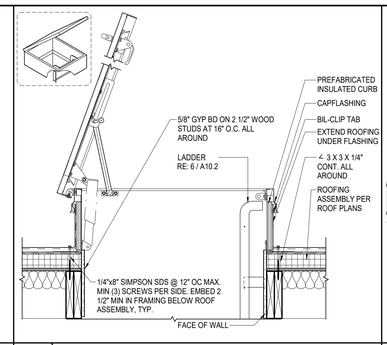
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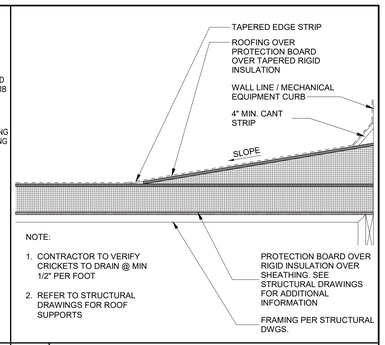
16 FLASHING AT INTERSECTING WALLS
SCALE: 1 1/2" = 1'-0"



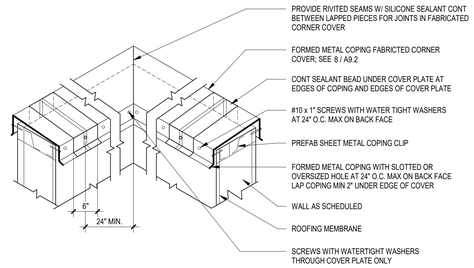
11 TUBULAR SKYLIGHT
SCALE: 1" = 1'-0"



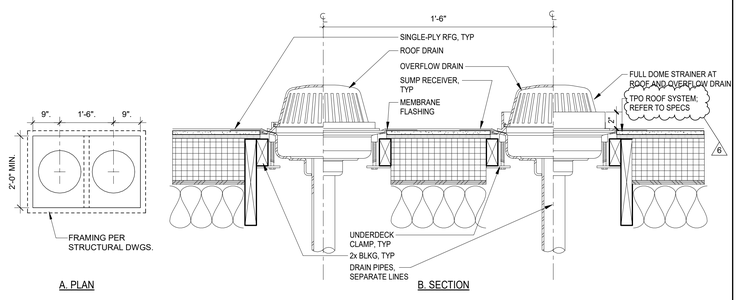
6 ROOF HATCH
SCALE: 1" = 1'-0"



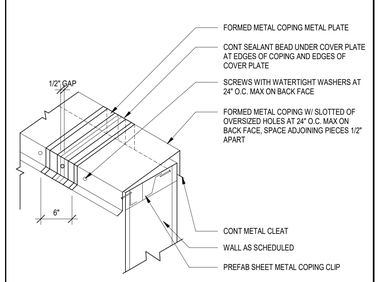
1 ROOF CRICKET
SCALE: 1" = 1'-0"



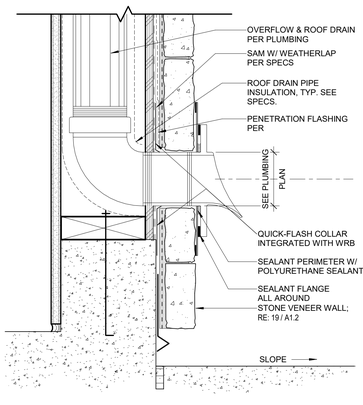
7 COPING CORNER & SPLICE TYP
SCALE: 1 1/2" = 1'-0"



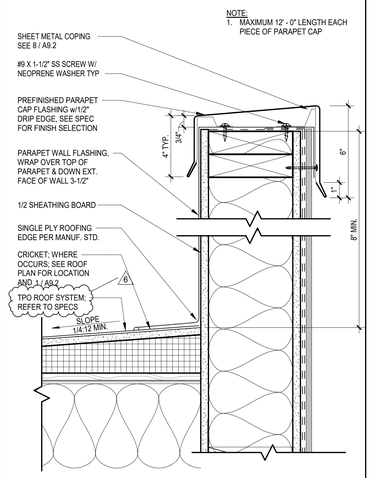
18 ROOF - DRAIN AND OVERFLOW
SCALE: 1 1/2" = 1'-0"



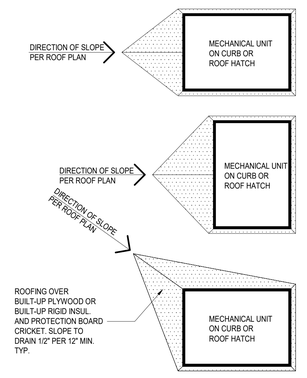
8 COPING DETAIL
SCALE: 1 1/2" = 1'-0"



15 OVERFLOW DRAIN TERMINATION
SCALE: 3" = 1'-0"



10 PARAPET
SCALE: 3" = 1'-0"



5 ROOF EQUIPMENT CRICKETS
SCALE: 1/2" = 1'-0"

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COASTSIDE FIRE PROTECTION DISTRICT

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PLAN CHECK 02 RESPONSE

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KEY PLAN
PLAN NORTH
TRUE NORTH

CLIENT
COASTSIDE FIRE PROTECTION DISTRICT
PROJECT NUMBER
230137
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DRAWN BY: KF/OS CHKED BY: AD

REVISIONS

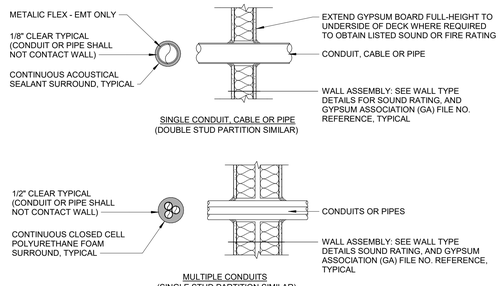
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2	NON-PC REVISION	12/11/25
6	ADDENDUM 6	10/23/2026

ROOF DETAILS

A9.2

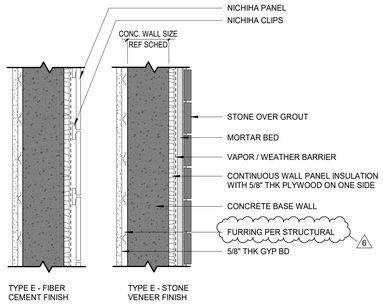
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NOTES:
1. CONDUIT, CABLE, PIPE, ETC. PENETRATIONS OF ACOUSTICAL PARTITIONS SHALL BE ACOUSTICALLY SEALED AS SHOWN. ANY GAP LARGER THAN 1/2" SHALL BE COVERED WITH SCREW ATTACHED GYPSUM BOARD, LAPPED A MINIMUM OF 2", PRIOR TO INSTALLING ACOUSTICAL SEALANT.
2. WHERE ELECTRICAL BOXES OR SIMILAR ONE-SIDED WALL PENETRATIONS OCCUR, OFFSET ONE STUD CAVITY FROM PENETRATIONS ON OPPOSITE SIDE OF SOUND WALL AND SEAL ANNULAR SPACE.

10 CONDUIT / PIPE PEN. ACOUSTIC PROVISIONS
SCALE: 1" = 1'-0"



CONC SIZE	WALL THK (NOT INCL FIN.)	FIRE RATING (CBC / UL / GA LISTING) 0 HR	1 HR	2 HR	REMARKS
8	11 1/2	**E8**	——	——	
12	13 1/2	**E12**	——	——	

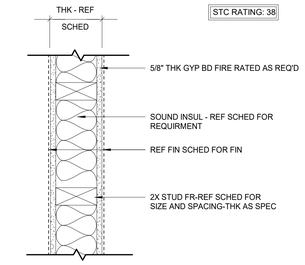
PLAN INDICATION
NON RATED

NOTES SCHEDULE
A. PROVIDE CONTINUOUS WALL PANEL INSULATION AS NOTED. SEE SPECS

NOTES:
1. REF FIN SCHED FOR FIN
3. ALL WALLS FULL HGT

NOTE:
1. REF 9.1 & 9.2 FOR WALL BASE & HEAD DTLS.
2. THE WEIGHTED AVERAGE U-FACTOR OF THE WALL ASSEMBLY SHALL NOT EXCEED 0.110.

5 WALL TYPE E
SCALE: 1 : 1



STC RATING: 38

NOTE:
1. REF 5/A10.2 FOR BASE DTL
2. REFERENCE 8, 10, 14/- FOR PENETRATION DTL.
3. WHERE SHEARWALL OCCURS, ADD ADDITIONAL 15/32" THK. TO ACCOMODATE PLYWOOD PER STRUCT.

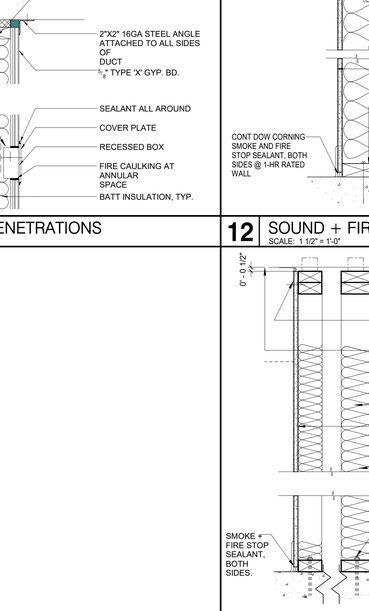
STUD-SIZE	WALL THK	FIRE RATING (CBC / UL / GA LISTING) 0 HR	1 HR	2 HR	REMARKS
4	4 3/4	**A4**	——	——	
6	6 3/4	**A6**	——	——	
6	6 3/4	**A6P**	——	——	42" PARTIAL HEIGHT

PLAN INDICATION
NON RATED

NOTES
A. PROVIDE 5 - 1/2" THK SOUND INSUL

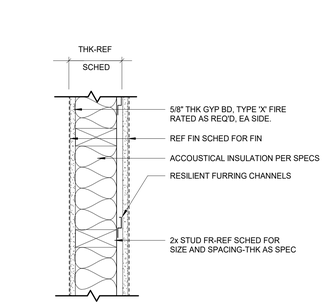
NOTES:
1. REF FIN SCHED FOR FIN
2. STUDS SPACED 16" OC
3. ALL WALLS FULL HGT

1 WALL TYPE A
SCALE: 1 : 1



NOTE:
FLOOR PENETRATIONS SHALL COMPLY WITH
UL SYSTEM NO CAJ 1014
F RATING - 2 HOUR

11 THRU PENET. FIRE STOP @ CONC FLOOR @ WALL
SCALE: 1 1/2" = 1'-0"



MIN. STC 50 PER UL U309
1 HOUR RATING PER UL U309
SEE 12 / -

STUD SIZE	WALL THK (NOT INCL FIN.)	FIRE RATING (CBC / UL / GA LISTING) 0 HR	1 HR	2 HR	REMARKS
6	7 1/4	——	**F6*1**	——	C6*A

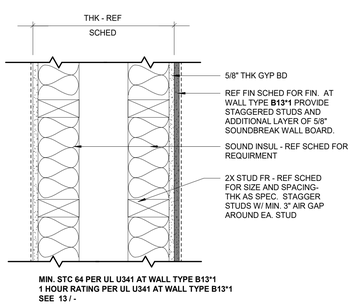
PLAN INDICATION
RATED

NOTES SCHEDULE
A. ACCOUSTICAL INSULATION PER SPECS

NOTES:
1. REF FIN SCHED FOR FIN
3. ALL WALLS FULL HGT

NOTE:
1. REF 12 / - WALL BASE & HEAD DTLS.
2. REF 8, 10, 14 / - FOR PENETRATION DETAILS
3. THE WEIGHTED AVERAGE U-FACTOR OF THE WALL ASSEMBLY SHALL NOT EXCEED 0.110.

6 WALL TYPE F
SCALE: 1 : 1



MIN. STC 64 PER UL U341 AT WALL TYPE B13*1
1 HOUR RATING PER UL U341 AT WALL TYPE B13*1
SEE 13 / -

STUD-SIZE	WALL THK	FIRE RATING (CBC / UL / GA LISTING) 0 HR	1 HR	2 HR	REMARKS
6" studs 2" clr.	14 7/8"	——	**B13*1**	——	SOUND + FIRE RATED (STC 64)
6" studs 7" clr.	19 1/4"	**B18**	——	——	
6" studs 12" clr.	24 1/4"	**B23**	——	——	

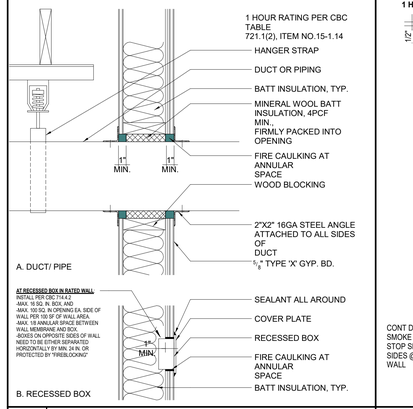
PLAN INDICATION
NON RATED
RATED

NOTES
A. 2 LAYERS 5 1/2" THK SOUND INSUL

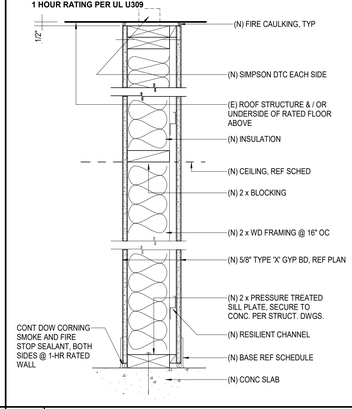
NOTES:
1. REF FIN SCHED FOR FIN
2. STUDS SPACED 16" OC
3. ALL WALLS FULL HGT

NOTE:
1. REF 13 / - FOR BASE DTL
2. REFERENCE 8, 10, 14 / - FOR PENETRATION DTL.
3. WHERE SHEARWALL OCCURS, ADD ADDITIONAL 15/32" THK. TO ACCOMODATE PLYWOOD PER STRUCT.

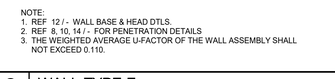
2 WALL TYPE B
SCALE: 1 : 1



14 FIRE WALL PENETRATIONS
SCALE: 1 1/2" = 1'-0"



12 SOUND + FIRE RATED WALL
SCALE: 1 1/2" = 1'-0"



NOTE:
1. REF A9.1 & A9.2 FOR WALL BASE & HEAD DTLS.
2. THE WEIGHTED AVERAGE U-FACTOR OF THE WALL ASSEMBLY SHALL NOT EXCEED 0.110.

CONC SIZE	WALL THK (NOT INCL FIN.)	FIRE RATING (CBC / UL / GA LISTING) 0 HR	1 HR	2 HR	REMARKS
8	8	**G8**	——	——	C6*A

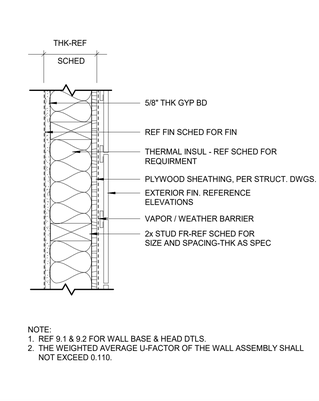
PLAN INDICATION
NON RATED

NOTES SCHEDULE
A. THERMAL INSULATION PER SPECS

* OPTIONAL CHARACTER

NOTES:
1. REF FIN SCHED FOR FIN
3. ALL WALLS FULL HGT

7 WALL TYPE G
SCALE: 1 : 1



NOTE:
1. REF 9.1 & 9.2 FOR WALL BASE & HEAD DTLS.
2. THE WEIGHTED AVERAGE U-FACTOR OF THE WALL ASSEMBLY SHALL NOT EXCEED 0.110.

STUD SIZE	WALL THK (NOT INCL FIN.)	FIRE RATING (CBC / UL / GA LISTING) 0 HR	1 HR	2 HR	REMARKS
6	6 5/8	**C6**	——	——	
10	10 3/8	**C10**	——	——	

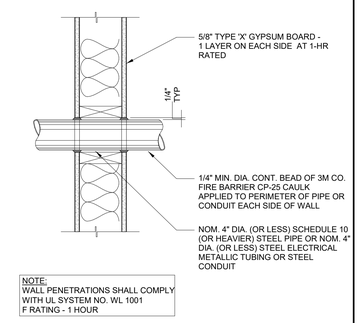
PLAN INDICATION
NON RATED

NOTES SCHEDULE
A. THERMAL INSULATION PER SPECS

NOTES:
1. REF FIN SCHED FOR FIN
2. STUDS SPACED 16" OC
3. ALL WALLS FULL HGT

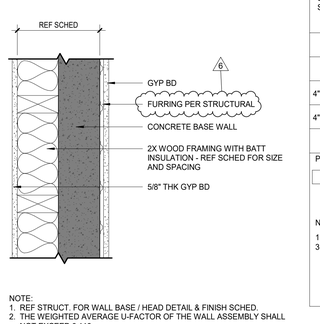
3 WALL TYPE C
SCALE: 1 : 1

13 SOUND + FIRE RATED DBL STUD WALL
SCALE: 1 1/2" = 1'-0"



NOTE:
WALL PENETRATIONS SHALL COMPLY WITH UL SYSTEM NO. WL 1001
F RATING - 1 HOUR

8 1-HR THRU PENETRATION FIRE STOP
SCALE: 1 1/2" = 1'-0"



NOTE:
1. REF STRUCT. FOR WALL BASE / HEAD DETAIL & FINISH SCHED.
2. THE WEIGHTED AVERAGE U-FACTOR OF THE WALL ASSEMBLY SHALL NOT EXCEED 0.110.

STUD SIZE	CONC SIZE	WALL THK (NOT INCL FIN.)	FIRE RATING (CBC / UL / GA LISTING) 0 HR	1 HR	2 HR	REMARKS
N/A	8	12	**D8**	——	——	FURRED FINISH PER PLAN
N/A	8	9 1/2	——	**D8*1**	——	1 HOUR RATED
4" STUDS	8	13 5/8	**D14**	——	——	STUD / FURRED PER PLAN
4" STUDS	8	16 1/4	**D16**	——	——	STUDS EA. SIDE PER PLAN

PLAN INDICATION
NON RATED

NOTES SCHEDULE
A. THERMAL INSULATION PER SPECS

NOTES:
1. REF FIN SCHED FOR FIN
3. ALL WALLS FULL HGT

4 WALL TYPE D
SCALE: 1 : 1

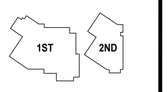
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FIRE STATION #44
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MOSS BEACH, CA 94038
PLAN CHECK 02 RESPONSE

COASTSIDE FIRE PROTECTION DISTRICT

PLAN CHECK 02 RESPONSE



KEY PLAN
PLAN NORTH
TRUE NORTH

CLIENT
COASTSIDE FIRE PROTECTION DISTRICT
PROJECT NUMBER
230137
DATE 03/13/2026
DRAWN BY: KF/OS CHKED BY: AD

REVISIONS

#	DESCRIPTION	DATE
6	ADDENDUM 6	10/23/2026

This document is for plan review only

WALL TYPES & DETAILS

A9.3

10/26/2026 10:11:30 AM

A10.1 - FLOOR FINISH PLAN & SCHEDULE

FIRST FLOOR FINISH SCHEDULE

ROOM NUM	ROOM NAME	FLOOR	BASE	WALL FINISH				CEILING FINISH	PAINT FINISH	REMARKS
				NORTH WALL	EAST WALL	SOUTH WALL	WEST WALL			
101	LOBBY	PC/WO-1	RB-1	P-1	P-4	P-1	P-1	WF-1	ESPT	C
102	RR 1	PT-1	PT-2	PT-2/P-1	PT-2/P-1	PT-2/P-1	PT-2/P-1	P-5	SGPT	F, G, H
103	CAPT. OFFICE	PC	RB-1	P-1	P-1	P-1	P-1	P-5	ESPT	
104	OFFICE	PC	RB-1	P-1	P-1	P-1	P-1	ACT	ESPT	
105	ELEV.	RF-2	RB-1	PF	PF	PF	PF	PF	-	
106	FITNESS	RF-1	RB-2	P-1/MIRROR	P-1	P-1/MIRROR	P-1	ACT	SGPT	B, I, N
107	STAIRWAY 1	RF-3	RB-1	P-1	P-1	P-1	P-1	P-5	SGPT	
108	RR 2	PT-1	PT-2	PT-2/P-1	PT-2/P-1	PT-2/P-1	PT-1/P-1	P-5	SGPT	A, B, F, G, H
109	ELECT	SC	CB	P-1	P-1	P-1	P-1	P-5	SGPT	
110	HALLWAY	PC	RB-1	P-1	P-1	P-1	P-1	ACT	ESPT	
111	CUST	SC	RB-1	FRP/P-1	FRP/P-1	P-1	P-1	OPEN	-	D
112	ELEV. MACH.	SC	RB-1	P-1	P-1	P-1	P-1	OPEN		
113	STOR	PC	RB-1	P-1	P-1	P-1	P-1	OPEN	-	
114	TELECOM	PC	RB-1	P-1	P-1	P-1	P-1	OPEN	-	
115	TRAINING CLASSROOM	CPT-1	RB-1	P-1	P-1	P-1	P-1	WF-1/P-6	ESPT/FPT	B, C, O, P, U
116	APPARATUS BAY	PC	MB-1	P-1	P-1	P-1	P-1	P-5	SGPT	J
117	YARD ST	SC	CB	P-1	P-1	P-1	P-1	OPEN	-	
118	DECON	PC	MB-1	FRP/P-1	SS/FRP/P-1	FRP/P-1	FRP/P-1	FRP/P-5	SGPT	D, E
119	EMS STOR	PC	MB-1	P-1	P-1	P-1	P-1	P-5	SGPT	
120	TURNOUT	PC	MB-1	P-1	P-1	P-1	P-1	P-5	SGPT	Q
121	COMP	PC	MB-1	P-1	P-1	P-1	P-1	P-5	SGPT	
122	SHOP	PC	MB-1	P-1/PEG	P-1/PEG	P-1	P-1	P-5	SGPT	J, R
123	HOSE DRY STOR	PC	MB-1	P-1	P-1	P-1	P-1	P-5	SGPT	
124	FIRE RISER	SC	CB	P-1	P-1	P-1	P-1	OPEN	-	
125	VESTIBULE	PC	RB-1	P-1	P-1	P-1	P-1	OPEN	-	

SECOND FLOOR FINISH SCHEDULE

ROOM NUM	ROOM NAME	FLOOR	BASE	WALL FINISH				CEILING FINISH	PAINT FINISH	REMARKS
				NORTH WALL	EAST WALL	SOUTH WALL	WEST WALL			
201	BAT. CHIEF DORM	PC/RR	RB-1	P-1	P-1	P-1	P-2	ACT	ESPT	
202	BALCONY	DCS	-	-	-	-	-	-		L
203	BC RR	PT-1/PT-3	PT-2/MB-1	PT-2/P-1	PT-2/P-1	PT-2/P-1	PT-2/P-1	P-5	SGPT	F, G, H, S
204	DORM 1	PC/RR	RB-1	P-1	P-1	P-1	P-2	ACT	ESPT	
205	RR	PT-1/PT-3	PT-2/MB-1	PT-2/P-1	PT-2/P-1	PT-2/P-1	PT-2/P-1	P-5	SGPT	F, G, H, S
206	ELEV	RF-2	RB-1	PF	PF	PF	PF	PF	-	
207	CAPTAIN RR	PT-1/PT-3	PC-2/P-1	PC-2/P-1	PC-2/P-1	PC-2/P-1	PC-2/P-1	P-5	SGPT	F, G, H, S
208	BALCONY	DCS	-	-	-	-	-	-	-	L
209	CAPTAIN DORM	PC/RR	P-1	P-1	P-1	P-2	P-1	ACT	ESPT	
210	DORM 2	PC/RR	P-1	P-1	P-1	P-1	P-2	ACT	ESPT	
211	DORM 3	PC/RR	P-1	P-1	P-1	P-1	P-2	ACT	ESPT	
212	LAUNDRY	PC	P-1	P-1	FRP-1/P-1	FRP-1/P-1	P-1	P-5	SGPT	
213	HALLWAY	PC	P-1	P-1	P-1	P-1	P-1	ACT	ESPT	
214	ACCESSIBLE RR	PT-1/PT-3	PT-2/MB-1	PT-2/P-1	PT-2/P-1	PT-2/P-1	PT-2/P-1	PT-2/P-5	SGPT	F, G, H, S
215	VEST	PC	RB-1	P-1	P-1	P-1	P-1	OPEN	-	
216	STOR 3	PC	RB-1	P-1	P-1	P-1	P-1	OPEN	-	
217	PANTRY	PC	RB-1	P-1	P-1	P-1	P-1	P-5	SGPT	
218	KITCHEN	PC	RB-1	P-1/CT-1	P-1/CT-1	P-1	P-1	P-6/WF-1	ESPT/FPT	B, C, M, H, U
219	DINING	PC	RB-1	P-1	P-1	P-1	P-1	OPEN, P-6	FPT	C, U
220	DAYROOM	PC	RB-1	P-1	P-1	P-1	P-1	P-6/WF-1	ESPT/FPT	A, C, U
221	DECK	DCS	-	-	-	-	-	-	-	L
222	SLIDE POLE DECK	EP	RB-1	P-1	P-1	P-1	P-1	P-5	SGPT	

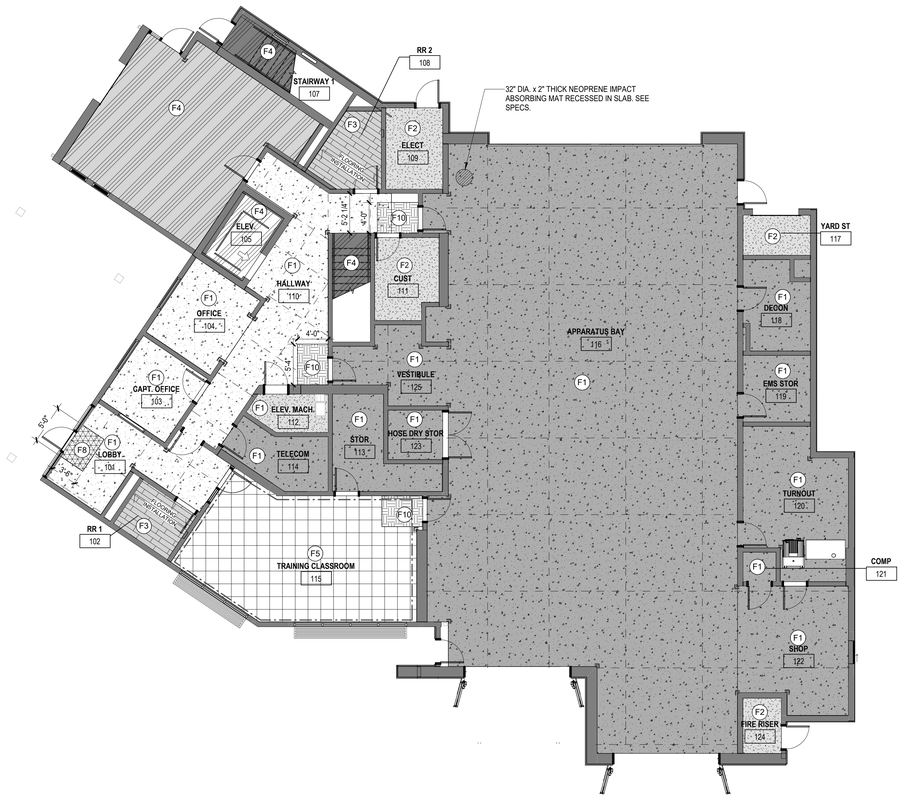
MAT. / FIN. ABBREVIATIONS
P = PAINTED
ESPT = EGG SHELL PAINT
SGPT = SEMI-GLOSS PAINT
FPT = FLAT PAINT
ACT = ACOUSTICAL CEILING TILE
FRP = FIBER REINFORCED PANELS
SC = SEALED CONCRETE
PC = POLISHED CONCRETE
DCS = DECK COVERING SYSTEM
PT = PORCELAIN TILE
CT = CERAMIC TILE
RF = RUBBER FLOORING
CPT= CARPET TILE
WO = WALK OFF MAT
EP = EPOXY
RB = RUBBER BASE
MB = METAL BASE
CB = CONCRETE BASE
AWP = ACOUSTIC WOOD PANEL
SS = STAINLESS STEEL
PF= PREFABRICATED WALLS AND CEILING
RR= RUNNER RUG

MATERIAL SCHEDULE

ITEM	DESCRIPTION	MANUFACTURER	SERIES	COLOR	SIZE	SPEC SEC	REMARKS
ACT-1	ACOUSTICAL CEILING TILE, TYPE 1	ARMSTRONG	ULTIMA	WHITE	2' X 4'	09 51 00	
AR-1	AREA RUGS	INTERFACE	ICE BREAKER	105771 GRANITE	20" X 20"	09 68 00	TACTILE INSTALLATION SYSTEM. SEE FLOOR FINISH PLANS FOR SIZES.
CPT-1	CARPET TILE, TYPE 1	INTERFACE	ICE BREAKER	105771 GRANITE	20" X 20"	09 68 00	INSTALLATON: NON DIRECTIONAL
CS-1	CONCRETE FLOORING, SEALED						
CT-1	CERAMIC TILE	ARIZONA TILE	PALOMA LONG HEX	COTTON. MAPEI GROUT - 02 PEWTER	4X8 POLISHED. 9MM THICK	09 30 12	BACKSPLASH TILE
DCS	DECK COVERING SYSTEM	DEX-O-TEX	WEATHERWARE	4413 DOLPHIN GRAY		11 90 00	DECK AND BALCONY FLOOR SYSTEM
FRP-1	FIBERGLASS REINFORCED PANELS	MARLITE	STANDARD FRP - CLASS C	PEBBLED - BRIGHT WHITE	4' X 8'	09 77 33	SEE ELEVATIONS FOR HEIGHTS. SEE DETAILS 16,21/A10.2
MC-1	METAL COUNTERTOPS			STAINLESS STEEL		06 41 16	
MCG-1	METAL CORNER GUARDS, TYPE 1	INPRO		STAINLESS STEEL	1-1/2" 90 DEGREE WINGS	41 90 00	
MT-1	METAL FINISH TRIM, TYPE 1	SCHLUTER	DILEX-HKS COVE	STAINLESS STEEL/CLASSIC GREY	HKSV2AU10/O11GS	09 30 00	
MT-2	METAL FINISH TRIM, TYPE 2	SCHLUTER	JOLLY	BRUSHED STAINLESS STEEL	J100EB	09 30 00	
P-1	PAINT - FIELD, TYPE 1	SHERWIN WILLIAMS	N/A	SW 7064 PASSIVE	N/A	09 90 00	SEE FLOOR FINISH PLANS, FINISH SCHEDULE & FINISH SCHEDULE REMARKS
P-2	PAINT - ACCENT, TYPE 1	SHERWIN WILLIAMS	N/A	SW 9163 TIN LIZZIE	N/A	09 90 00	SEE FLOOR FINISH PLANS, FINISH SCHEDULE & FINISH SCHEDULE REMARKS
P-3	PAINT - ACCENT, TYPE 2 (DOOR TRIM)	SHERWIN WILLIAMS	N/A	SW 7068 GRIZZLE GRAY	N/A	09 90 00	SEE FLOOR FINISH PLANS, FINISH SCHEDULE & FINISH SCHEDULE REMARKS
P-4	PAINT - ACCENT, TYPE 3	SHERWIN WILLIAMS	N/A	SW 7600 BOLERO	N/A	09 90 00	SEE FLOOR FINISH PLANS, FINISH SCHEDULE & FINISH SCHEDULE REMARKS
P-5	PAINT - CEILING, TYPE 1	SHERWIN WILLIAMS	N/A	SW 7005 PURE WHITE	N/A	09 90 00	SEE FLOOR FINISH PLANS, FINISH SCHEDULE & FINISH SCHEDULE REMARKS
P-6	PAINT - CEILING, TYPE 2	SHERWIN WILLIAMS	N/A	SW 7069 IRON ORE	N/A	09 90 00	SEE FLOOR FINISH PLANS, FINISH SCHEDULE & FINISH SCHEDULE REMARKS
PC-1	CONCRETE FLOORING, POLISHED					03 35 10	SEE SPECS FOR FINISH DETAILS
PL-1	PLASTIC LAMINATE, TYPE 1	ARBORITE	ARTISAN WALNUT (AW)	W2002 CLASSIC ARTISAN WALNUT		06 41 16	SEE INTERIOR ELEVATIONS FOR LOCATIONS
PL-2	PLASTIC LAMINATE, TYPE 2	ARBORITE	ARTISAN WALNUT (AW)	W2005 NOBLE ARTISAN WALNUT		06 41 16	SEE INTERIOR ELEVATIONS FOR LOCATIONS
PT-1	PORCELAIN TILE, TYPE 1	ARIZONA TILE	MORE WOOD	NOCE. MAPEI GROUT - 07 CHOCOLATE	8X32 R11 ANTI-SLIP. 10MM THICK	09 30 14 & 09 30 15	SEE FLOOR FINISH PLANS
PT-2	PORCELAIN TILE, TYPE 2	ARIZONA TILE	THEMAR	VENATO GOLD. MAPEI GROUT - 02 PEWTER	12X24 MATTE: 10MM THICK	09 30 15	
PT-3	PORCELAIN TILE, TYPE 3	ARIZONA TILE	FRAGMENT (FRAY)	GRAY. MAPEI GROUT -	2X2 MOSAIC. 9MM THICK	09 30 14	SEE FLOOR FINISH PLANS
RB-1	RUBBER BASE, TYPE 1	JOHSONITE	TRADITIONAL COVED WALL BASE	63 BURNT UMBER	4"	09 65 13	
RB-2	RUBBER BASE, TYPE 2	TARKETT JOHNSONITE	REPLAY	507 NIGHT	48" ROLL	09 65 13	
RF-1	RUBBER FLOORING, TYPE 1	TARKETT JOHNSONITE	TRIUMPH	LB9 RAINSTORM	24" X 24" SLIDELOCK TILE	09 65 13	
RF-2	RUBBER FLOORING, TYPE 2	TARKETT JOHNSONITE	TRIUMPH	KN1 RAINY DAY	24" X 24" SLIDELOCK TILE	09 65 13	
RF-3	RUBBER STAIR TREAD, TYPE 1	TARKETT JOHNSONITE	ANGLE FIT RUBBER STAIR TREAD W/INTEGRATED RISER	HAMMERED 20 CHARCOAL 40 BLACK RUBBER INSERT	5' LENGTH	09 65 13	
RSN-1	RUBBER STAIR NOSING, TYPE 1	TARKETT JOHNSONITE	RUBBER INSERT	40 BLACK		09 65 13	
SS-1	SOLID SURFACE, TYPE 1	CORIAN	SOLID SURFACE	ASH AGGREGATE		06 41 16	
SS-2	SOLID SURFACE, TYPE 2	CORIAN	SOLID SURFACE	ASH CONCRETE		06 41 16	
SS-3	SOLID SURFACE, TYPE 3	CORIAN	SOLID SURFACE	PEARL GRAY		06 41 16	WINDOW TRIM
WF-1	WOOD VENEER CEILING PANEL, TYPE 1	ARMSTRONG	WOODWORKS LINEAR VENEERED PANELS	PLAIN SLICE WALNUT (NWN)	NOMINAL 6" PLANKS	09 51 26	ADD MATCHING TRIM TO EXPOSED AREAS.
WO-1	WALK-OFF MAT	BALCO	FMR-A: ABRASIVE TREAD, VINYL HINGE	ABRASIVE COLOR - BLACK, METAL COLOR - STANDARD MILL ALUMINUM	SEE FLOOR FINISH PLANS	12 24 13	
WS-1	MOTORIZED ROLLER WINDOW SHADE	MECHO	ECOVEIL 1550 SERIES (3% OPEN)	SHADOW GREY		12 24 13	
WS-2	MANUAL ROLLER WINDOW SHADE	MECHO	ECOVEIL 1550 SERIES (3% OPEN)	SHADOW GREY		12 24 13	
WS-3	MANUAL ROLLER WINDOW SHADE, BLACKOUT	MECHO	CHELSEA BLACKOUT 0250 SERIES	STEEL/GRAPHITE		12 24 13	
MB-1	STAINLESS STEEL METAL WALL BASE	KOFFLER SALES CO.		STAINLESS STEEL	6" H X 96" L		

FINISH SCHEDULE REMARKS

A. REFER TO FLOOR FINISH PLANS
B. REFER TO INTERIOR ELEVATIONS
C. REFER TO CEILING PLANS
D. FRP WAINSCOT - SEE INTERIOR ELEVATIONS FOR HEIGHTS AND LOCATIONS
E. STAINLESS STEEL AT TOP OF SINK TO BOTTOM OF CASEWORK
F. 84" PORCELAIN TILE WAINCSOT
G. STAINLESS STEEL COVE BASE TRIM (MT-1)
H. STAINLESS STEEL FINISHING AND EDGE PROTECTING TRIM (MT-2)
I. MIRRORS - SEE SPEC
J. METAL BASE AT CASEWORK
K. NOT USED
L. DEX-O-TEX FINISH ON SEALED CONCRETE - SEE SPEC
M. PROVIDE FULL HEIGHT TILE BACKSPLASH BETWEEN UPPER AND LOWER CASEWORK PER ELEVATIONS
N. 18" RUBBER BASE (RB-2)
O. MARKERBOARD - SEE SPEC
P. TV MOUNT (N.I.C.) OR DIGITAL MARKERBOARD (N.I.C.) - SEE SPEC
Q. WALL MOUNTED LOCKERS - SEE SPEC
R. PEG BOARD AND PEG BOARD BACKSPLASH - SEE SPEC
S. RESTROOM SHOWERS TO HAVE TILE ON WALLS (FULL HEIGHT) AND CEILINGS, SEE FINISH AND MATERIAL SCHEDULES.
T. PROVIDE PAINTED STUCCO CEILINGS AT COVERED PATIO AREA PER REFLECTED CEILING PLAN.
U. PAINT ALL EXPOSED CEILING-RELATED ITEMS FLAT BLACK **P-6**, INCLUDING BUT NOT LIMITED TO, STRUCT. MEMBERS, STRUCT. DECK, DUCTWORK, DIFFUSERS, PIPING, CONDUIT, EQUIP. HOUSINGS, LIGHT FIXTURE HOUSINGS, CABLE SUPPORTS, CABLE TRAYS, EQUIP. SUPPORTS, HANGERS



1 FP01 - FIRST FLOOR FINISH PLAN
SCALE: 1/8" = 1'-0"



2 FP02 - SECOND FLOOR FINISH PLAN
SCALE: 1/8" = 1'-0"

GENERAL FINISH NOTES

1.1 REFER TO INTERIOR ELEVATIONS, AND SPECIFICATIONS FOR FINISH INFORMATION AND ADDITIONAL INFORMATION ON SUBSTRATE PREP WORK & REQUIRED TESTING PRIOR TO FINISHES INSTALLATION.

1. ALL SCHEDULED DIRECTIONS (NORTH, EAST, SOUTH, WEST) ARE PER PLAN DIRECTIONS, NOT TRUE COMPASS DIRECTIONS.

1.2 NOTIFY ARCHITECT OF ANY IN THE FIELD DISCREPANCIES PRIOR TO FINISHES INSTALLATION.

1.3 GENERAL CONTRACTOR & SUB-CONTRACTORS TO VERIFY LEAD TIMES ON ALL PRODUCTS IMMEDIATELY UPON PROJECT AWARDMENT. SOME PRODUCTS REQUIRE 6-12 WEEKS LEAD TIME AND SUBSTITUTIONS ARE NOT ALLOWED, UON.

AGENCY/CODE REQUIREMENTS
2.1 INTERIOR WALL AND CEILING FINISHES SHALL COMPLY WITH 2022 CBC SECTION 803, BE CLASSIFIED IN ACCORDANCE WITH ASTM E84 OR UL 723, TESTED IN ACCORDANCE WITH NFPA 286 AND TABLE 803.11.

2.2 INTERIOR FLOOR FINISH AND COVERINGS SHALL COMPLY WITH 2022 CBC SECTION 804, BE TESTED IN ACCORDANCE WITH NFPA 253, COMPLY WITH ASTM E648 & SHALL HAVE A SPECIFIC OPTICAL DENSITY SMOKE RATING NOT TO EXCEED 450 PER ASTM E662.

ACCESSORIES
3.1 ALL WALLS TO RECEIVE CORNER GUARD CG1 @ 90° OUTSIDE CORNERS OF WING WALLS, SEE **8/A9.03**, CG2 & CG3 @ 90° OUTSIDE CORNERS, SEE **9/A9.03**. INSTALL CORNER GUARDS DIRECTLY ABOVE THE WALL BASE.

3.2 WHERE OCCURS, WALLS SHALL RECEIVE WALL PROTECTION WP1, SEE **15/A9.03**,. TOILET ROOMS SHALL RECEIVE WP2, SEE **14/A9.03**,.

3.3 48"W FRP WAINSCOT - SEE INTERIOR ELEVATION FOR HEIGHTS

3.4 28"H STAINLESS STEEL BACKSPLASH AT DECON SINK

3.5 ALL WINDOWS SHALL RECEIVE WINDOW TREATMENT WT1, SEE **7/A9.03**,. REFER TO REFLECTED CEILING PLANS FOR TYPES PER LOCATION.

3.6 ALL RESTROOM WALL TILE BASE SHALL RECEIVE MTL3 AT WALL PROTECTION CONNECTION.

3.7 ALL ELECTRICAL DEVICE COVERS ARE TO BE WHITE U.N.O.

CASEWORK
4.1 REFER TO THE GENERAL NOTES FOR CASEWORK DETAIL 1/A10.4

4.2 ALL CASEWORK NOT IN RESTROOMS SHALL RECEIVE **PL-1** & **SS-1**, REFER TO INTERIOR ELEVATIONS.

4.3 ALL KITCHEN, APPARATUS BAY, AND SHOP CASEWORK SHALL RECEIVE **PL-1** AND **MC-1** UNO,, REFER TO INTERIOR ELEVATIONS.

4.4 ALL CASEWORK IN RESTROOMS SHALL RECEIVE **PL-2** & **SS-2**, REFER TO INTERIOR ELEVATIONS.

4.5 FILLER STRIPS ARE REQUIRED AT ENDS OF CABINETS WHERE CABINETS ARE ADJACENT TO WALLS.

4.6 ALL INTERIORS OF ENCLOSED CABINETS INCLUDING SHELVING SHALL RECEIVE MELAMINE FINISH, UON. ALL INTERIORS OF OPEN CABINETS INCLUDING SHELVING SHALL MATCH THE EXTERIOR LAMINATE FINISH, UON.

4.7 REFER TO CASEWORK SCHEDULE ON DETAIL **20/A10.05** FOR LOCK TYPE AND LOCATION.

CEILING

5.1 ALL SCHEDULED CEILING HEIGHTS ARE FROM THE PRIMARY FLOOR LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.

5.2 REFER TO REFLECTED CEILING PLANS FOR CEILING HEIGHTS

FLOORING
6.1 REFER TO FINISH FLOOR PLANS.

6.2 TOP SET WALL BASE SHALL BE B1, UON. SEE -/--.-. REFER TO INTERIOR ELEVATIONS, FINISH SCHEDULE & FLOORING FINISH PLANS. @ ALL SINK LOCATIONS PROVIDE WELD / CLEAR SEALANT @ TOP-SET WALL BASE TRANSITION TO FLOORING.

6.2 FLOORING & WALL BASE SHALL CONTINUE UNDER ADA COMPLIANT SLOPED & INTEGRAL TOE-KICK SINK CABINETS & WALL HUNG COUNTER. REFER TO INTERIOR ELEVATIONS.

6.4 ALL RESTROOM TRANSITIONS FROM FLOOR TO WALL SHALL RECIEVE **MT-1**.

1. ALL FLOORING TRANSITIONS AT DOORS SHALL BE LOCATED UNDER THE DOOR IN THE CLOSED POSITION, U.N.O.
2. PROTECT ALL FINISHED FLOORING SURFACES FROM DAMAGE DURING ALL CONSTRUCTION PHASES.

6.5 ALL RESTROOM TRANSITIONS FROM CERAMIC/PORCELAIN WALL TILE TO GYPSUM BOARD SHALL RECIEVE FINISH METAL TRIM **MT-2**

6.6 REFER TO TYPICAL FLOORING TRANSITION DETAILS FOR FLOORING MATERIAL TRANSITIONS.

PAINT
7.1 ALL WALLS IN THE ENTIRE PROJECT AREA'S SCOPE OF WORK SHALL RECEIVE PAINT **P-1**, UON. REFER TO PAINT FINISH PLANS. WHERE AREAS ARE NOT IN THE PROJECT SCOPE OF WORK, TERMINATE PAINT AT THE NEAREST INSIDE/OUTSIDE CORNER.

7.2 PAINT ALL EXPOSED CEILING-RELATED ITEMS, INCLUDING BUT NOT LIMITED TO, STRUCT. MEMBERS, STRUCT. DECK, DUCTWORK, DIFFUSERS, PIPING, CONDUIT, EQUIP. HOUSINGS, LIGHT FIXTURE HOUSINGS, CABLE SUPPORTS, CABLE TRAYS, EQUIP. SUPPORTS, HANGERS

7.3 PAINT ALL EXPOSED CEILING-RELATED ITEMS FLAT BLACK **P-6**, INCLUDING BUT NOT LIMITED TO, STRUCT. MEMBERS, STRUCT. DECK, DUCTWORK, DIFFUSERS, PIPING, CONDUIT, EQUIP. HOUSINGS, LIGHT FIXTURE HOUSINGS, CABLE SUPPORTS, CABLE TRAYS, EQUIP. SUPPORTS, HANGERS

7.4 PAINT ALL EXPOSED CEILING-RELATED ITEMS WHITE **P-5**, INCLUDING BUT NOT LIMITED TO, STRUCT. MEMBERS, STRUCT. DECK, DUCTWORK, DIFFUSERS, PIPING, CONDUIT, EQUIP. HOUSINGS, LIGHT FIXTURE HOUSINGS, CABLE SUPPORTS, CABLE TRAYS, EQUIP. SUPPORTS, HANGERS

7.5 DO NOT PAINT ACOUSTICAL STRUCT. DECK

7.6 ALL METAL DOORS & FRAMES & WINDOW FRAMES TO RECEIVE IN SEMI-GLOSS FINISH, UON.

7.7 ALL CEILINGS SHALL RECEIVE EGG-SHELL FINISH, UON.

7.8 TOILET ROOM WALLS & CEILINGS SHALL RECEIVE SEMI-GLOSS FINISH, UON.

7.9 ALL WALLS SHALL RECEIVE PAINT FINISH PRIOR TO INSTALLATION OF WALL BASE, CASEWORK & CEILING GRID'S PERIMETER WALL TRIM.

7.10 PAINT ALL H.M. DOORS U.N.O.

LEGEND

- F1 POLISHED CONCRETE - LEVEL 3
- F1 POLISHED CONCRETE - LEVEL 2
- F2 SEALED CONCRETE
- F3 PORCELAIN TILE - 8X32
- F3 PORCELAIN TILE - 2X2
- F4 RUBBER FLOOR, TYPE 1
- F4 RUBBER FLOOR, TYPE 2
- F4 RUBBER STAIR TREAD
- F5 CARPET TILES
- F6 DECK COVERING SYSTEM
- F7 EPOXY
- F8 WALK OFF MAT SEE DETAIL 1 / A10.3
- F9 AREA RUG - TACTILE INSTALLATION SYSTEM FROM INTERFACE
- F10 SURFACE ROLL-UP FLOOR MAT, BALCO OR APPROVED EQUAL
- ACCENT PAINT P-2
- ACCENT PAINT P-4
- STAINLESS STEEL CORNER GUARDS, SEE DETAIL 22 / A10.2

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FIRE STATION #44
COASTSIDE FIRE PROTECTION DISTRICT

501 STETSON STREET
MOSS BEACH, CA 94038
PLAN CHECK 02 RESPONSE

PLAN CHECK 02 RESPONSE

1ST 2ND
KEY PLAN
PLAN NORTH
TRUE NORTH

CLIENT
COASTSIDE FIRE PROTECTION DISTRICT
PROJECT NUMBER 230137
DATE 03/13/2026
DRAWN BY: KF/OS CHKED BY: AD

REVISIONS

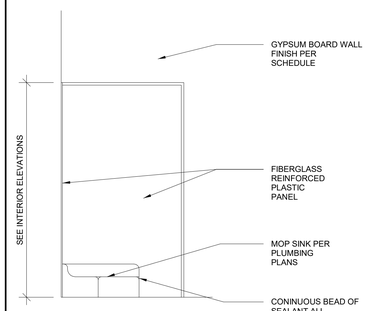
#	DESCRIPTION	DATE
1	PLANCHECK #1 RESPONSE	12/11/25
4	NON-PC REVISION	03/13/26
6	ADDENDUM 6	10/23/2026

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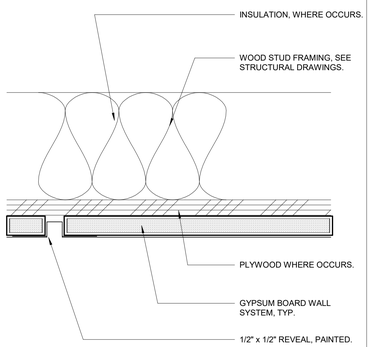
FLOOR FINISH PLAN & SCHEDULE

A10.1

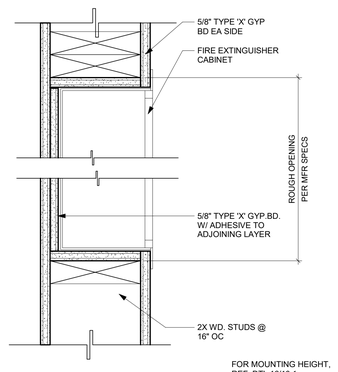
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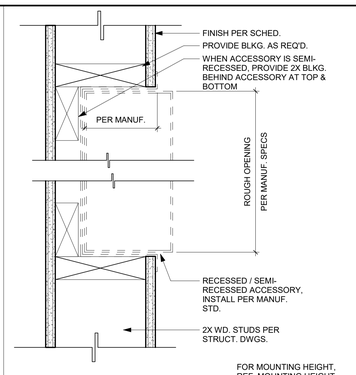
21 FLOOR SINK AND FRP
SCALE: 1/2" = 1'-0"



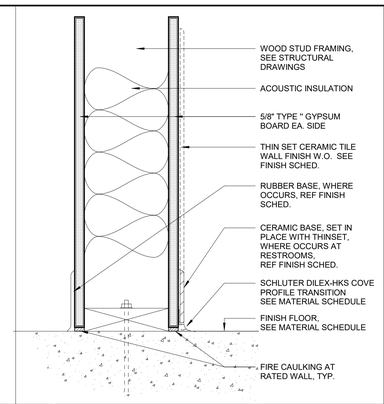
17 GYP BD REVEAL1
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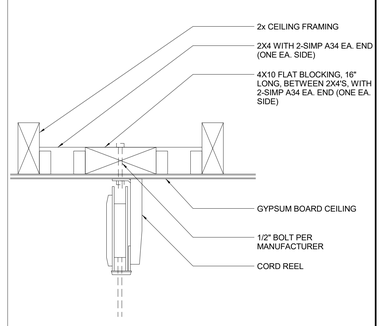
13 RECESSED FIRE EXT. CABINET
SCALE: 3" = 1'-0"



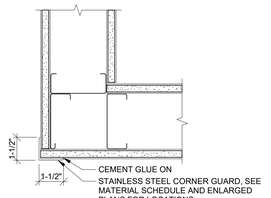
9 TYP. RECESSED ACCESSORY
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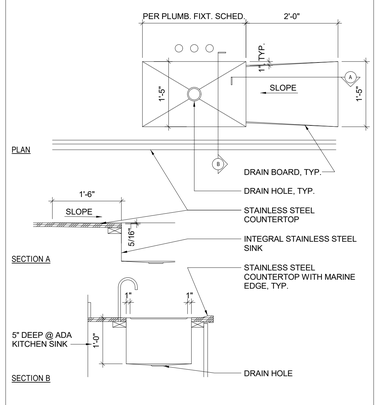
5 TYP. WALL BASE
SCALE: 3" = 1'-0"



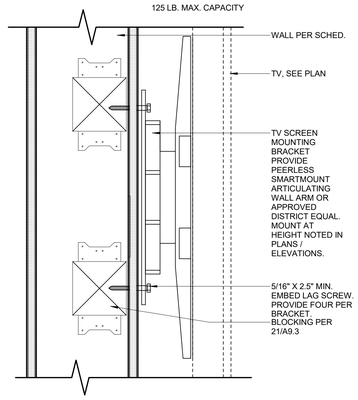
1 CORD REEL ATTACHMENT
SCALE: 1 1/2" = 1'-0"



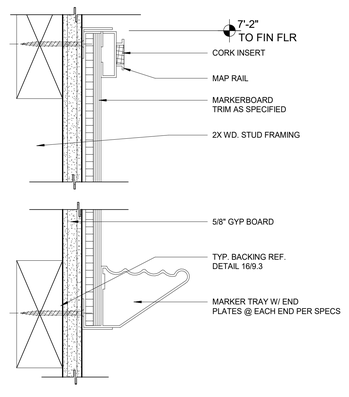
22 STAINLESS STEEL CORNER GUARD
SCALE: 3" = 1'-0"



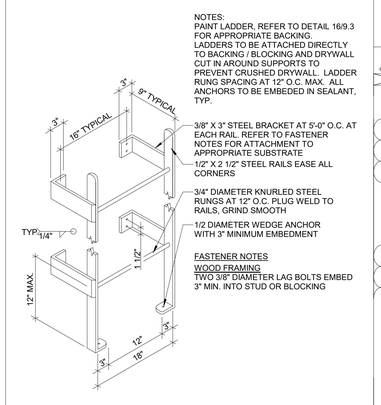
18 SS KITCHEN SINK
SCALE: 3/4" = 1'-0"



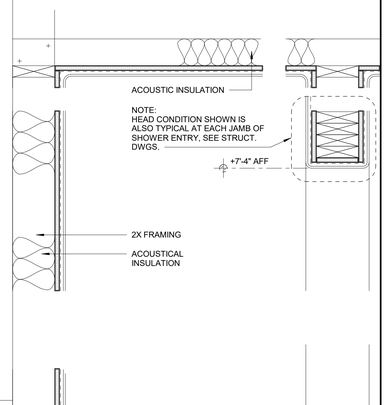
14 TV MOUNTING BRACKET
SCALE: 3" = 1'-0"



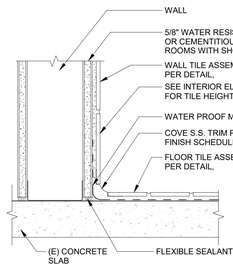
10 MARKERBOARD
SCALE: 6" = 1'-0"



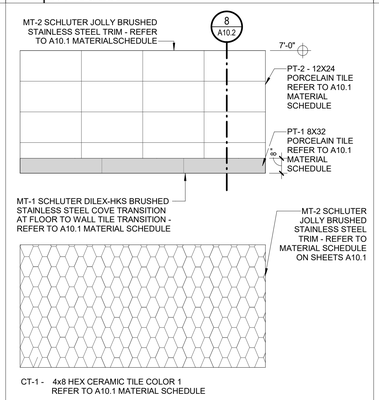
6 LADDER
SCALE: 1 1/2" = 1'-0"



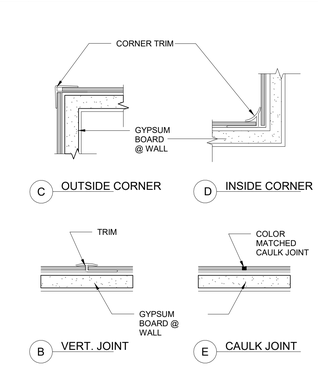
3 TYP. SHOWER SECTION
SCALE: 1 1/2" = 1'-0"

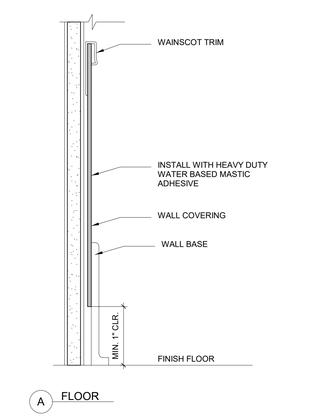


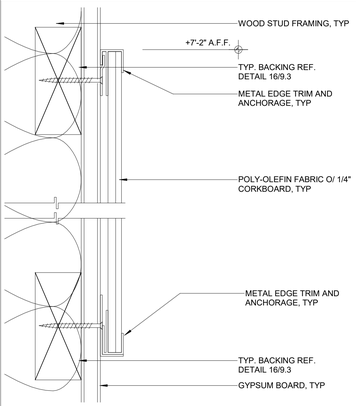
23 FLOOR TO WALL TILE
SCALE: 3" = 1'-0"



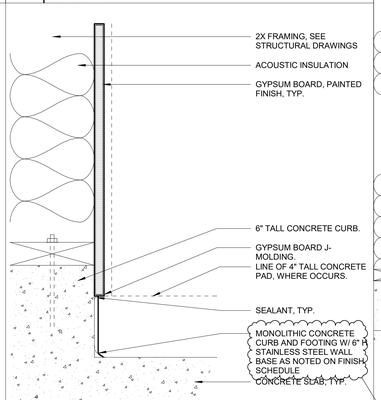
19 WALL TILE PATTERN
SCALE: 1/2" = 1'-0"



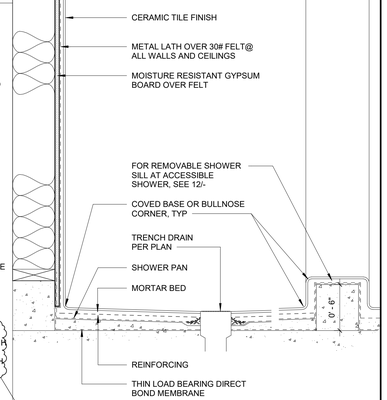




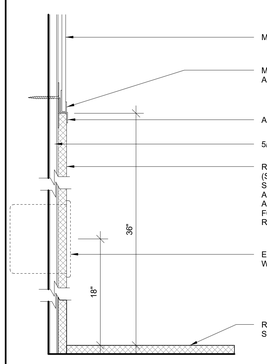
11 TACKBOARD
SCALE: 6" = 1'-0"



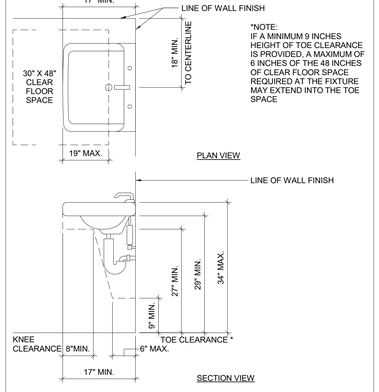
7 WALL BASE @ CONC. BASE
SCALE: 3" = 1'-0"



3 TYP. SHOWER SECTION
SCALE: 1 1/2" = 1'-0"

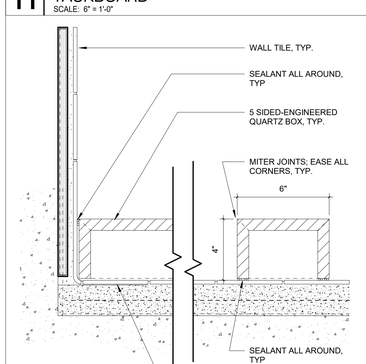


24 RUBBER FLOOR AND BASE
SCALE: 3" = 1'-0"

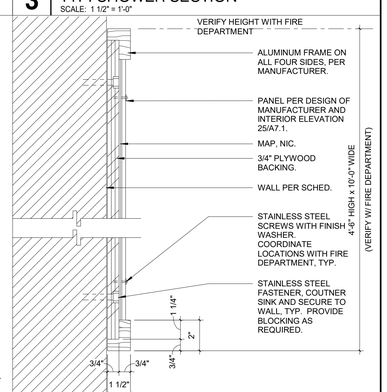


20 KNEE CLEARANCE @ SINK
SCALE: 3/4" = 1'-0"

16 FRP DETAIL
SCALE: 1/2" = 1'-0"



12 REMOVABLE SHOWER SILL
SCALE: 3" = 1'-0"



8 METAL TRIM
SCALE: NTS

4 WALL MOUNTED MAP BOARD
SCALE: 3" = 1'-0"

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FIRE STATION #44
COASTSIDE FIRE PROTECTION DISTRICT

501 STETSON STREET
MOSS BEACH, CA 94038

PLAN CHECK 02 RESPONSE

COASTSIDE FIRE PROTECTION DISTRICT EST 2002

PLAN CHECK 02 RESPONSE

1ST 2ND

KEY PLAN
PLAN NORTH
TRUE NORTH

CLIENT
COASTSIDE FIRE PROTECTION DISTRICT
PROJECT NUMBER
230137
DATE 03/13/2026
DRAWN BY: KF/OS CHKED BY: AD
REVISIONS

#	DESCRIPTION	DATE
6	ADDENDUM 6	10/23/2026

This document is for plan review only

INTERIOR / SPECIALTY

A10.2

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AIR DISTRIBUTION SCHEDULE

SYM.	MANUF & MODEL	NECK SIZE	FACE SIZE	CFM RANGE	MAX. NECK VELOCITY	MAX. N.C.	T. P. DROP	TYPE	DAMPER	REMARKS
SD–1	PRICE PDMC	6"Ø 8"Ø 10"Ø 12"Ø 14"Ø 16"Ø 18"Ø	24"x24"	0 - 80 85 - 175 180 - 275 280 - 390 395 - 480 485 - 600 605 - 780	500	25	0.075	MODULAR PERFOR.	MVD	FRAME TYPE 3 FOR T-BAR
RG–1	PRICE PDDR	6"Ø 8"Ø 10"Ø 12"Ø 14"Ø 16"Ø 18"Ø	24"x24"	0 - 80 85 - 175 180 - 275 280 - 390 395 - 480 485 - 600 605 - 780	500	25	0.016	PERFOR.	MVD	FRAME TYPE 3 FOR T-BAR
SD–2	PRICE SMCD	6"x6" 8"x8" 10"x10" 12"x12" 14"x14" 16"x16" 18"x18" 20"x20"	12"x12" 14"x14" 16"x16" 18"x18" 20"x20" 22"x22" 24"x24" 26"x26"	0 - 125 130 - 220 225 - 350 355 - 500 505 - 680 685 - 880 885 – 1125 1130 - 1400	500	25	.057	MODULAR CORE	MVD	BORDER TYPE 1 FOR GYP. BOARD CEILING PROVIDE SQUARE TO ROUND ADAPTER FOR ALL
RG–2	PRICE 530L	6"x6" 8"x8" 10"x10" 12"x12" 14"x14" 16"x16" 18"x18" 22"x20"	8"x8" 10"x10" 12"x12" 14"x14" 16"x16" 18"x18" 20"x20" 24"x22"	0 - 90 95 - 195 200 - 300 305 - 450 455 - 590 595 - 800 805 - 1040 1045 - 1400	500	25	.067	LOUVERED	MVD	BORDER TYPE N FOR GYP. BOARD CEILING
EG–1	PRICE PDDR	6"Ø 8"Ø 10"Ø 12"Ø 14"Ø 16"Ø 18"Ø	24"x24"	0 - 80 85 - 175 180 - 275 280 - 390 395 - 480 485 - 600 605 - 780	500	25	0.016	PERFOR.	MVD	FRAME TYPE 3 FOR T-BAR
EG–2	PRICE 530L	6"x6" 8"x8" 10"x10" 12"x12" 14"x14" 16"x16" 22"x20"	8"x8" 10"x10" 12"x12" 14"x14" 16"x16" 18"x18" 24"x22"	0 - 90 95 - 195 200 - 300 305 - 450 455 - 590 595 - 800 1045 - 1400	500	25	.067	LOUVERED	MVD	BORDER TYPE N FOR SURFACE MOUNT
LD–1	PRICE SDS75	8"Ø	3-1/2"x48"	0 - 160	500	25	0.086	LINEAR	MVD	2-SLOT X 48" LENGTH PROVIDE W/ SDB PLENUM BORDER TYPE 2 FOR HARD-LID CEILING
LD–2	PRICE SDS75	10"Ø	6"x48"	0 - 400	500	30	.139	LINEAR	MVD	4-SLOT X 48" LENGTH PROVIDE W/ SDB PLENUM BORDER TYPE 19 FOR LAY-IN T-BAR

LEGEND

CFM

AIR DISTRIBUTION DEVICE

SD	SUPPLY DIFFUSER
SR	SUPPLY REGISTER
RG	RETURN GRILLE
EG	EXHAUST GRILLE
TG	TRANSFER GRILLE

NOTES:
1. NOT ALL DIFFUSER/GRILLE TYPES OR SIZES MAY BE USED ON THIS PROJECT.

CALIFORNIA GREEN BUILDING STANDARDS NOTES

ENTIRE INSTALLATION SHALL COMPLY WITH THE 2022 CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE INCLUDING THE FOLLOWING APPLICABLE MANDATORY MEASURES:

1. 5.504.1.3 – PERMANENT HVAC SYSTEM SHALL ONLY BE USED DURING CONSTRUCTION IF NECESSARY TO CONDITION THE BUILDING WITHIN THE REQUIRED TEMPERATURE RANGE FOR MATERIAL AND EQUIPMENT INSTALLATION. IF THE HVAC SYSTEM IS USED DURING CONSTRUCTION, CONTRACTOR SHALL USE MERV 8 MINIMUM RETURN AIR FILTERS. REPLACE ALL FILTERS IMMEDIATELY PRIOR TO OCCUPANCY.
2. 5.504.3 – CONTRACTOR SHALL COVER ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY DURING STORAGE AND CONSTRUCTION AND UNTIL FINAL STARTUP.
3. 5.504.5.3 – MERV 13 FILTERS ARE REQUIRED FOR HVAC SYSTEMS SERVING REGULARLY OCCUPIED AREAS AND AS INDICATED IN THESE PLANS.
4. 5.504.7 – OUTDOOR SMOKING AREAS SHALL BE MINIMUM 25'–0" FROM ALL BUILDING ENTRIES, OUTDOOR AIR INTAKES, AND OPERABLE WINDOWS.
5. 5.505.1 – INSTALLATION SHALL COMPLY WITH CBC SECTION 1203 AND CHAPTER 14 FOR INDOOR MOISTURE CONTROL.
6. 5.506.2 – DEMAND CONTROL VENTILATION REQUIRED FOR ALL DENSELY OCCUPIED SPACES PER 2022 CALIFORNIA ENERGY CODE REQUIREMENTS.
7. 5.508.1 – HVAC, REFRIGERATION, AND FIRE SUPPRESSION EQUIPMENT SHALL NOT CONTAIN CFCS OR HALONS.

LEGEND

SYMBOL	ABBR.	DESCRIPTION
	–	SUPPLY AIR RISER
	–	RETURN AIR RISER
	–	EXHAUST AIR RISER
	SAG	SUPPLY AIR GRILLE
	RAG	RETURN AIR GRILLE
	EAG	EXHAUST AIR GRILLE
	SWR	SIDEWALL REGISTER
	(L)	LINED DUCTWORK
	–	FLEXIBLE CONNECTION
	FC	FLEXIBLE CONNECTION
	–	DEMO DUCT (SEE PLAN)
	MVD	MANUAL VOLUME DAMPER
	BDD	BACKDRAFT DAMPER
S/M	SFD	SMOKE / FIRE DAMPER
F	FD	FIRE DAMPER
	DL	DOOR LOUVER
U.C.	UC	UNDERCUT DOOR 3/4"
RS	RS	REFRIGERANT SUCTION LINE
RL	RL	REFRIGERANT LIQUID LINE
CD	CD	CONDENSATE DRAIN
	S.D.	SMOKE DETECTOR
	P.O.C.	POINT OF CONNECTION
T	T–STAT	THERMOSTAT
H	H	HUMIDISTAT
TS	TS	TEMPERATURE SENSOR
OS	OS	OVERRIDE SWITCH
PD	PD	PRESSURE DIFFERENTIAL SWITCH
S	S	SWITCH
	O.C.	ON CENTER
	I.D.	INSIDE DIAMETER
	O.D.	OUTSIDE DIAMETER
	W/	WITH
	S/M	SHEET METAL
	S/S	STAINLESS STEEL
	G.C.	GENERAL CONTRACTOR
	VTR	VENT THRU ROOF
	OBD	OPPOSED BLADE DAMPER
	FSC	FAN SPEED CONTROL
E	E	ITEMS FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR AS SPECIFIED ON THE ELECTRICAL CONTRACT DOCUMENTS
M	M	ITEMS FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR AS SPECIFIED ON THE MECHANICAL CONTRACT DOCUMENTS
EM	EM	ITEMS FURNISHED BY ELECTRICAL CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR.
ME	ME	ITEMS FURNISHED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR.
	CBD	COUNTER–BALANCE DAMPER
	D.S.	FAN SPEED CONTROL
DS	FSC	DOOR SWITCH

GENERAL NOTES

1. ENTIRE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE 2022 CALIFORNIA MECHANICAL CODE, 2022 CALIFORNIA BUILDING CODE, AND ALL OTHER APPLICABLE CODES AND REGULATIONS, INCLUDING 2022 CALIFORNIA ENERGY CONSERVATION STANDARDS DIVISION T-24.
2. COORDINATE ENTIRE INSTALLATION OF THE HVAC SYSTEM WITH THE WORK OF ALL OTHER TRADES PRIOR TO ANY FABRICATION OR INSTALLATION. PROVIDE ALL FITTINGS, OFFSETS, AND TRANSITIONS AS REQUIRED FOR A COMPLETE WORKABLE INSTALLATION. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ITEMS TO BE PROVIDED BY OTHER TRADES WHERE MENTIONED IN THE CONTRACT DOCUMENTS PRIOR TO BID - NO EXCEPTIONS.
3. COORDINATE THE LOCATIONS OF ALL CEILING DIFFUSERS, REGISTERS, AND GRILLES WITH THE ARCHITECTURAL REFLECTIVE CEILING PLAN, ELECTRICAL LIGHTING LAYOUT AND ARCHITECTURAL ROOM ELEVATIONS. THE ARCHITECT AND ENGINEER SHALL BE IMMEDIATELY NOTIFIED OF ANY CONFLICTS PRIOR TO FABRICATION AND INSTALLATION.
4. ALL EQUIPMENT, DUCTS, PIPING, AND OTHER DEVICES AND MATERIALS INSTALLED OUTSIDE OF THE BUILDING OR OTHERWISE EXPOSED TO THE WEATHER SHALL BE COMPLETELY WEATHER-PROOFED AND PAINTED TO MATCH, COORDINATE WITH ARCHITECT PRIOR TO PAINTING.
5. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH AND BE CONSIDERED TO BE PART OF A SEPARATE AND COMPLETE MECHANICAL SPECIFICATION.
6. ALL DIMENSIONS SHOWN ON THESE PLANS ARE APPROXIMATE AND MUST BE CONFIRMED ON SITE.
7. PRIOR TO OCCUPANCY, THE ENTIRE H.V.A.C. SYSTEMS SHALL BE BALANCED IN ACCORDANCE WITH (AABC) ASSOCIATED AIR BALANCE COUNCIL STANDARDS BY AN INDEPENDANT AIR BALANCE CONTRACTOR. CERTIFICATION SHALL BE PROVIDED BY THE CONTRACTOR FOR AIR AND HYDRONIC AS APPLICABLE. SYSTEMS SHALL BE BALANCED AS INDICATED ON PLANS INCLUDING FRESH AIR VENTILATION. WHERE THERE IS A CONFLICT WITH THE MECHANICAL PLANS, THE AIR BALANCE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO BALANCING OF SYSTEM. IF NOT THE AIR BALANCE CONTRACTOR SHALL BEAR ALL COSTS INCURRED FOR WORK THAT MUST BE RE-BALANCED DUE TO CONFLICTS ON CONTRACT DOCUMENTS. CONTRACTOR SHALL PROVIDE THREE COPIES OF THE AIR BALANCE REPORT TO THE ENGINEER FOR APPROVAL.
8. FOR INACCESSIBLE AREAS THE CONTRACTOR SHALL PROVIDE ACCESS PANELS FOR ALL DAMPERS, EQUIPMENT, SMOKE DETECTORS, AND CONTROL DEVICES. THESE PANELS SHALL MATCH THE RATING OF THE WALL AND/OR CEILING THAT THEY ARE LOCATED IN. MINIMUM ACCESS PANEL SIZES SHALL BE AS FOLLOWS:

   1) HAND ACCESS: 12"x12"

   2) BODY ACCESS: 30"x30" MIN. WHERE A LARGER ACCESS SIZE IS REQUIRED DUE TO INSTALLATION CONSTRAINTS, THE CONTRACTOR SHALL DO SO AT NO ADDITIONAL COST AND SHALL NOTIFY THE ARCHITECT AND ENGINEER OF DEVIATIONS PRIOR TO INSTALLATION.
9. COORDINATE THE LOCATION OF ALL ROOF OPENINGS AND THE LOCATION OF ALL ROOF MOUNTED EQUIPMENT WITH THE STRUCTURAL AND ARCHITECTURAL PLANS PRIOR TO ANY INSTALLATION.
10. PLATFORMS, CURBS, AND FLASHINGS FOR MECHANICAL EQUIPMENT SHALL BE AS INDICATED ON THE STRUCTURAL AND ARCHITECTURAL PLANS, UNLESS NOTED OTHERWISE. WHERE THERE IS A CONFLICT WITH THE MECHANICAL PLANS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND ENGINEER PRIOR TO FABRICATION AND INSTALLTION.
11. ALL EQUIPMENT, ACCESSORIES, AND RELATED PIPING SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL FITTINGS, TRANSITIONS, DAMPERS, VALVES, AND OTHER DEVICES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
12. MAINTENANCE LABEL SHALL BE AFFIXED TO ALL MECHANICAL EQUIPMENT AND A MAINTENANCE MANUAL SHALL BE PROVIDED FOR THE OWNER'S USE.
13. PROVIDE MERV 13 FILTERS FOR ALL AIR CONDITIONING UNITS. SEE EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR TYPE. SIZES SHALL BE AS RECOMMENDED BY THE MANUFACTURER, UNLESS OTHERWISE SPECIFIED.
14. AIR FILTERS SHALL BE STATE FIRE MARSHALL APPROVED AND LISTED. PREFORMED FILTERS HAVING COMBUSTIBLE FRAMING SHALL BE TESTED AS A COMPLETE ASSEMBLY. AIR FILTERS SHALL BE ACCESSIBLE FOR CLEANING OR REPLACEMENT.
15. ALL EQUIPMENT WITH MOVING PARTS SHALL BE PROVIDED WITH FLEXIBLE DUCT AND PIPE CONNECTIONS.
16. ALL EQUIPMENT SHALL BE LABELED AS TO THE SPACE IT SERVES. SEE PLANS AND SPECIFICATIONS FOR IDENTIFICATION STANDARDS.
17. ALL HVAC EQUIPMENT SHALL BE CERTIFIED BY THE CALIFORNIA ENERGY COMMISSION TO COMPLY WITH LATEST EFFICIENCY STANDARDS.
18. AC UNITS PROVIDED WITH ECONOMY CYCLE DAMPERS SHALL HAVE DAMPERS SET UP TO CLOSE AUTOMATICALLY ON FAN SHUTDOWN.
19. PROVIDE MANUAL VOLUME DAMPERS AND BACKDRAFT DAMPERS FOR FRESH AIR INTAKES ON ALL AIR HANDLING EQUIPMENT AND EXHAUST FANS SERVING CONDITIONED SPACES. EXCEPTION: EQUIPMENT WITH FACTORY ECONOMIZERS.
20. ALL FRESH AIR INTAKES SHALL MEET CODE REQUIRED CLEARANCES FROM EXHAUST, FLUE, FUEL BURNING APPLIANCE AND PLUMBING VENT OUTLETS. FOR GAS/ELECTRIC AIR CONDITIONING UNITS WHERE THE CODE REQUIRED CLEARANCES ARE NOT MET, A FACTORY FLUE GAS DEFLECTOR AND EXTENSION SHALL BE USED TO MINIMIZE THESE CLEARANCES. CONTRACTOR SHALL DETERMINE LOCATIONS WHERE REQUIRED PRIOR TO BID. THIS SHALL BE PROVIDED AT NO ADDITIONAL COST.
21. ALL AIR HANDLING EQUIPMENT SERVING CONDITIONED SPACES SHALL PROVIDE CONTINUOUS FRESH AIR TO SPACES IN OCCUPIED MODE.
22. CONTRACTOR SHALL VERIFY ALL CLEARANCES AND AVAILIABLE SPACE FOR DUCTWORK PRIOR TO ORDERING AND/OR FABRICATING MATERIAL.
23. CONTRACTOR TO SUBMIT ALL EQUIPMENT, DUCTWORK, AIR DISTRIBUTION DEVICES, AND OTHER ACCESSORIES TO THE ENGINEER FOR APPROVAL PRIOR TO ANY ORDERING OF SUCH ITEMS.
24. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS WITHIN 45 DAYS OF AWARD OF CONTRACT. SEE 230000 SPECIFICATIONS FOR REQUIREMENTS. ALL CONFLICTS BETWEEN VARIOUS TRADE SHOP DRAWINGS SHALL BE REPORTED TO THE CITY, ARCHITECT, AND ENGINEER OF RECORD. FAILURE TO REPORT CONFLICTS SHALL RESULT IN REJECTION OF RELATED CLAIMS FOR REWORK, EXTRA WORK, AND TIME FOR EXTENSIONS.
25. CONTRACTOR SHALL BE RESPONSIBLE FOR COMMISSIONING OF EQUIPMENT AS STIPULATED ON MECH-1-C FORM ON PLANS UNLESS NOTED OTHERWISE.
26. CONTROL SCHEMATICS ARE FOR SEQUENCE ONLY. REFER TO ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ALL ELECTRICAL DEVICES REQUIRED.
27. ALL LINE VOLTAGE WIRING SHALL BE INSTALLED IN CONDUIT. ALL LINE VOLTAGE CONDUIT AND WIRING, INCLUDING FINAL CONNECTIONS, SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR AS INDICATED ON THE ELECTRICAL DRAWINGS OR SPECIFIED IN THE ELECTRICAL SECTION OF THE SPECIFICATIONS. ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS OF ALL GOVERNING BODIES HAVING JURISDICTION THEREOF.
28. ALL LOW VOLTAGE CONDUIT AND WIRING AS APPLICABLE, INCLUDING FINAL CONNECTIONS, SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR AS INDICATED ON THE MECHANICAL DRAWINGS OR SPECIFIED IN THE MECHANICAL SECTION OF THE SPECIFICATIONS.

   A) ALL LOW VOLTAGE WIRING SHALL BE INSTALLED IN CONDUIT.

   B) WHERE THE CONTROLS CONTRACTOR IS RETAINED BY THE OWNER, THEY SHALL BE RESPONSIBLE FOR THE FOLLOWING:

   1) FURNISH AND INSTALL ALL DEVICES, WIRING, AND TERMINATIONS REQUIRED FOR A COMPLETE AND FUNCTIONAL INSTALLATION.

   2) COORDINATE ALL WORK AND REQUIREMENTS WITH OTHER TRADES INCLUDING GENERAL, MECHANICAL, AND ELECTRICAL CONTRACTORS PRIOR TO BID.

   3) CONTRACTOR SHALL FOLLOW ALL SUBMITTAL REQUIREMENTS PER DRAWINGS AND SPECIFICATIONS.
29. CONTRACTOR SHALL BE RESPONSIBLE FOR ORDERING AIR CONDITIONING EQUIPMENT WITH THRU-THE-BASE POWER, CONTROL, AND GAS CONNECTIONS. VERIFY ALL CONNECTION LOCATIONS WITH UNIT MANUFACTURER AND COORDINATE WITH OTHER TRADES AS NECESSARY.
30. ELECTRICAL CONTRACTOR SHALL PROVIDE REQUIRED RELAY ACCESSORIES FOR CONNECTION OF 120 VOLT 1 PHASE VENTILATION EQUIPMENT TO 277 VOLT 1 PHASE LIGHTING AS APPLICABLE. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR SUCH COORDINATION PRIOR TO BID.
31. WHERE HVAC CONTROL WIRING IS REQUIRED BETWEEN BUILDINGS. PROVIDE UNDERGROUND CONDUIT WITH PULL STRING(S) FURNISHED AND INSTALLED BY ELECTRICAL FOR THE ENERGY MANAGEMENT SYSTEM WIRING TERMINATIONS ONLY. CONTRACTOR SHALL FURNISH AND INSTALL CONDUIT AND WIRING TERMINATIONS FOR BETWEEN BUILDINGS.
32. ALL THERMOSTATS SHALL HAVE LOCKABLE COVERS (WHERE INDICATED ON PLANS) AND SHALL BE OF THE ELECTRONIC, PROGRAMMABLE, AUTOMATIC CHANGEOVER TYPE TO SEQUENCE HEATING OR COOLING. SET POINT RANGE SHALL BE 10 DEGREES F. BETWEEN FULL HEATING AND COOLING. THEY SHALL HAVE CAPABILITY OF TERMINATING ALL HEATING AT A TEMPERATURE NO MORE THAN 70 DEGREES F., AND COOLING AT A TEMPERATURE NOT LESS THAN 78 DEGREES F. ADJUSTABLE TEMPERATURE DIFFERENTIAL SHALL BE 1- 1/2 DEGREES F. CONTROL LIMITS SHALL BE FROM 55 DEGREES F. TO 85 DEGREES F. MOUNT AT 48 INCHES ABOVE FLOOR OR AS REQUIRED BY LOCAL AUTHORITIES OR ACCESSIBILITY CODES.

   NOTES:
   1) THERMOSTATS THAT ARE PART OF AN ENERGY MANAGEMENT SYSTEM SHALL FOLLOW CONTROL SPECIFICATIONS AND DRAWING REQUIREMENTS.

   2) SHOULD THE LOCATION OF THE THERMOSTAT NOT MEET THE ADA HEIGHT REQUIREMENTS DUE TO OBSTRUCTIONS, THEN AN ALTERNATE LOCATION SHALL BE PROPOSED OR REQUESTED BY THE CONTRACTOR THAT SHALL BE APPROVED BY THE ENGINEER AND ARCHITECT.
33. LINE VOLTAGE THERMOSTATS SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
34. CONTROLS CONTRACTOR AND AIR BALANCE CONTRACTOR SHALL COORDINATE WORK AND PERFORM NECESSARY TASKS AS REQUIRED TO OBTAIN AIR AND WATER FLOW QUANTITIES FOR SYSTEMS SHOWN HEREIN.
35. CONTROLS SHALL BE PROVIDED TO PROVIDE THE MINIMUM RATE OF OUTDOOR AIR REQUIRED BY THE STATE ENERGY REGULATIONS.
36. ALL DUCTWORK SHALL BE SHEET METAL CONSTRUCTED OR SPIRAL, ERECTED, AND TESTED IN ACCORDANCE WITH THE MOST RESTRICTIVE OF LOCAL REGULATIONS, PROCEDURES DETAILED IN THE ASHRAE HANDBOOK OF FUNDAMENTALS, CHAPTER 6 OF THE MECHANICAL CODE, OR THE APPLICABLE STANDARDS ADOPTED BY THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION.
37. ALL FLEXIBLE DUCTWORK SHALL BE MAX FIVE FEET AND MIN 3 FEET IN LENGTH TO RESPECTIVE DIFFUSERS, GRILLES, AND REGISTERS, OR OTHER AIR DEVICES.
38. PROVIDE SEISMIC RESTRAINTS TO ALL DUCTWORK, PIPE, AND EQUIPMENT SUPPORTS IN ACCORDANCE WITH THE LATEST SMACNA GUIDELINES FOR SEISMIC RESTRAINT OF MECHANICAL SYSTEMS. SUSPENDED EQUIPMENT SHALL BE PROVIDED WITH SEISMIC ANCHORAGE AND ISOLATION SUPPORTS. SEE SEISMIC NOTES ON THIS SHEET FOR ADDITIONAL REQUIREMENTS.
39. ALL RECTANGULAR DUCT TURNS IN SUPPLY, RETURN, AND EXHAUST DUCTS SHALL HAVE TURNING VANES UNLESS OTHERWISE NOTED.
40. DUCTWORK HANDLING CONDITIONED AIR SHALL BE INSULATED OR LINED AS INDICATED ON DRAWINGS. SUPPLY AND RETURN DUCT INSULATION SHALL BE MIN. 1.5" THICK, 3/4 LB./CUBIC FT. DENSITY AND HAVE A MIN. VALUE OF R-8 WHERE LOCATED IN ONE OR MORE OF THE FOLLOWING SPACES:

   A) OUTDOORS, OR

   B) IN A SPACE BETWEEN THE ROOF AND AN INSULATED CEILING, OR

   C) IN A SPACE DIRECTLY UNDER A ROOF WITH FIXED VENTS OR OPENINGS TO THE OUTSIDE OR UNCONDITIONED SPACES, OR

   D) IN AN UNCONDITIONED CRAWLSPACE; OR

   E) IN OTHER UNCONDITIONED SPACES

   PER 2022 CEC, OTHERWISE PROVIDE R-4.2 WHEN LOCATED IN CONDITIONED ATTIC SPACES ABOVE CEILINGS. ALL DUCTWORK EXPOSED ON ROOF SHALL BE INTERNALLY LINED WITH 1.5" THICK, 1.5LB./CUBIC FT. DENSITY DUCT LINER UNLESS OTHERWISE INDICATED OR SPECIFIED. ALL DUCT SIZES ARE SHEET METAL SIZES. ALL DUCT JOINTS SHALL BE SEALED PER CHAPTER 6 MECHANICAL CODE REQUIREMENTS. PROVIDE PIPING AND DUCT INSULATION IN ACCORDANCE WITH THE LATEST STANDARDS OF THE CALIFORNIA ENERGY COMMISSION.
41. ALL INSULATION SHALL HAVE A FLAME SPREAD OF NOT MORE THAN 25 AND A SMOKE DENSITY NOT EXCEEDING 50.

    MANUAL VOLUME DAMPERS SHALL BE PROVIDED IN ALL DUCT BRANCHES TO INDIVIDUAL DIFFUSERS, GRILLES, AND REGISTERS, AS WELL AS FRESH AIR INTAKE DUCTS. DAMPERS SHALL BE LOCATED AT THE BRANCH DUCT LOCATIONS. THE MECHANICAL CONTRACTOR SHALL COORDINATE LOCATIONS OF DAMPERS WITH THE AIR BALANCE CONTRACTOR PRIOR TO BID, SO THEY ARE ACCESSIBLE PRIOR TO INSTALLATION. IN LOCATIONS WHERE THESE DAMPERS ARE INACCESSIBLE, CABLE OPERATED ADJUSTMENT CONTROLS SHALL BE PROVIDED AT NO ADDITIONAL COST. SEE DETAIL 1/M5.1. OPPOSED BLADE DAMPERS SHALL NOT BE PERMITTED UNLESS NOTED OTHERWISE.
43. ALL VOLUME DAMPERS SHALL BE INSTALLED MIN THREE DUCT DIAMETERS UPSTREAM OF REGISTERS.

    AUTOMATIC FIRE DAMPER REQUIREMENTS ARE AS FOLLOWS:

    A) PROVIDE AUTOMATIC FIRE DAMPERS AT ALL PENETRATIONS OF FIRE-RATED CEILINGS AND WALLS THROUGHOUT. CONTRACTOR SHALL COORDINATE FIRE-RATED AREAS WITH THE ARCHITECTURAL DRAWINGS AND OTHER TRADES PRIOR TO INSTALL AND SHALL NOTIFY PERTINENT PARTIES PRIOR TO ANY WORK PERFORMED IN THESE AREAS. IN ADDITION, CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE PROPER ACCESS FOR DAMPERS INSTALLED. THE DAMPER FIRE RATING SHALL BE COMPATIBLE WITH THE CEILING/WALL RATING.

    B) LOCATION OF FIRE-RATED CEILINGS AND WALLS ARE AS INDICATED ON THE ARCHITECTURAL DRAWINGS.

    C) FIRE AND/OR SMOKE DAMPER(S) SHALL BE PROVIDED AS REQUIRED BY 2022 CBC AND CFC.

    D) CONTRACTOR SHALL FURNISH FLUSH MOUNTED FIRE AND/OR SMOKE DAMPERS, SO THAT DAMPER DO NOT EXTEND PASS WALLS, FOR AREAS WITHOUT CEILINGS FOR QUALITY WORKMENSHIP.
44. ALL DUCTWORK PASSING THROUGH FIRE RATED CORRIDORS AND LOBBIES SHALL BE MIN. 26 GAGE SHEET METAL CONSTRUCTION. FLEXIBLE DUCTWORK SHALL NOT BE ALLOWED.
45. ALL DUCTWORK, PIPING, CONDUIT, & ETC. PENETRATING FIRE RATED CONSTRUCTION SHALL HAVE APPROVED FIRE STOPPING. COORDINATE WITH OTHER TRADES PRIOR TO INSTALLATION.
46. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER OPERATION OF ALL MECHANICAL EQUIPMENT INCLUDING NECESSARY DEVICES FOR INTERLOCKING OF SUCH EQUIPMENT.
47. CONTRACTOR SHALL REFER TO MECHANICAL AND ARCHITECTURAL PLANS FOR REGISTER, DIFFUSER, AND GRILLE LOCATIONS PRIOR TO INSTALLATION.
48. CONTACT THE ENGINEER IMMEDIATELY IF THERE ARE CONFLICTS PRIOR TO INSTALLATION. CONTRACTOR SHALL COORDINATE ALL LOCATIONS OF DUCT PENETRATIONS THROUGH SHEAR WALLS. NO DUCT PENETRATE SHEAR WALLS UNLESS SPECIFICALLY SHOWN ON STRUCTURAL PLANS.
49. CONTRACTOR SHALL REFER TO STRUCTURAL, MECHANICAL, AND ARCHITECTURAL PLANS FOR EXTERIOR LOUVER LOCATIONS PRIOR TO FABRICATION AND INSTALLATION. CONTACT THE ENGINEER IMMEDIATELY IF THERE ARE CONFLICTS. REFER TO ARCHITECTURAL EXTERIOR ELEVATION PLANS FOR MOUNTING HEIGHTS. IF MOUNTING HEIGHTS ARE NOT IDENTIFIED ON THE ARCHITECTURAL PLANS. THEN THE CONTRACTOR SHALL RECEIVE FINAL APPROVAL FROM THE ARCHITECT PRIOR TO FABRICATION AND INSTALLATION.
50. CONTRACTOR SHALL COORDINATE ALL DOOR UNDERCUT QUANTITIES AND LOCATIONS WITH THE APPROPRIATE TRADES PRIOR TO FINAL BID. CONTACT THE ARCHITECT IMMEDIATELY IF THERE ARE CONFLICTS.
51. ALL DOOR UNDERCUTS INDICATED ON FLOOR PLAN(S) SHALL BE 3/4" MIN. ABOVE THRESHOLD.
52. CONTRACTOR SHALL IDENTIFY ALL CEILING ACCESS DOORS FOR MANUAL AND REMOTE CONTROLLED (CABLE OPERATED) DAMPERS, CEILING CUP LOCATIONS FOR INACCESSIBLE AREAS FOR THE ARCHITECT'S REVIEW AND APPROVAL PRIOR TO FABRICATION AND INSTALLATION OF DUCTWORK, EQUIPMENT, ETC.
53. CONTRACTOR SHALL CONFIRM FINAL REFRIGERANT PIPE SIZING UPON DETERMINATION OF ACTUAL DEVELOPED LENGTH. ALL PIPE MATERIALS SHALL BE PER MANUFACTURER'S GUIDELINES.
54. FOR INACCESSIBLE AREAS THE CONTRACTOR SHALL PROVIDE ACCESS PANELS FOR ALL DAMPERS, EQUIPMENT, SMOKE DETECTORS, AND CONTROL DEVICES. THESE PANELS SHALL MATCH THE RATING OF THE WALL AND/OR CEILING WHERE THEY ARE LOCATED IN. MINIMUM ACCESS PANEL SIZES SHALL BE AS FOLLOWS:

    1) HAND ACCESS: 12"x12" MIN.
    2) BODY ACCESS: 30"x30" MIN.
    3) MANUAL REMOTE CONTROL (CABLE OPERATED) DAMPERS IN LIEU OF VOLUME DAMPERS. SEE DETAIL...
55. WHERE A LARGER ACCESS SIZE IS REQUIRED DUE TO INSTALLATION CONSTRAINTS, THE CONTRACTOR SHALL DO SO AT NO ADDITIONAL COST AND SHALL NOTIFY THE ARCHITECT AND ENGINEER OF DEVIATIONS PRIOR TO INSTALLATION.
56. CONTRACTOR SHALL COORDINATE ALL MOUNTING HEIGHTS ABOVE FINISHED FLOOR WITH OTHER TRADES AND RECEIVE FINAL APPROVAL FROM THE ARCHITECT PRIOR TO FABRICATING AND INSTALLING EXPOSED DUCTWORK, EQUIPMENT, REGISTERS, ETC.
57. CONTRACTOR SHALL REFER TO MECHANICAL AND ARCHITECTURAL PLANS FOR ALL SIDE-WALL GRILLE LOCATIONS PRIOR TO FABRICATION AND INSTALLATION. CONTACT THE ENGINEER IMMEDIATELY IF THERE ARE CONFLICTS. REFER TO ARCHITECTURAL INTERIOR ELEVATION PLANS FOR MOUNTING HEIGHTS. IF MOUNTING HEIGHTS ARE NOT IDENTIFIED ON THE ARCHITECTURAL PLANS. THEN THE CONTRACTOR SHALL RECEIVE FINAL APPROVAL FROM THE ARCHITECT PRIOR TO FABRICATION AND INSTALLATION.
58. CONTRACTOR SHALL INSULATE ALL REFRIGERANT PIPING SUCTION AND VAPOR LINES.
59. CONTRACTOR SHALL PAINT ALL EXPOSED DUCTWORK, REGISTERS, ETC. COORDINATE PAINT FINISHES WITH THE ARCHITECT PRIOR TO INSTALLATION.

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BID SET

BID SET

KEY PLAN
PLAN NORTH
TRUE NORTH

REGISTERED PROFESSIONAL ENGINEER
ANDREW R. GUSMAN
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STATE OF CALIFORNIA

CLIENT
COASTSIDE FIRE PROTECTION DISTRICT
PROJECT NUMBER
230137
DATE 3/13/2026
DRAWN BY: KF/OS CHKED BY: AD

REVISIONS

#	DESCRIPTION	DATE
1	PLANCHECK #1 RESPONSE	12/11/25
2	PLANCHECK #2 RESPONSE	03/13/26
B	NON-PC REVISION	03/13/26
3	PLANCHECK #3 RESPONSE	05/22/2026
4	PLANCHECK #4 RESPONSE	07/24/2026
6	ADDENDUM #6	10/23/2026

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MECHANICAL LEGEND, AND GENERAL NOTES,

M0.1

SPLIT SYSTEM OUTDOOR CONDENSING UNIT SCHEDULE

SYM	MFR & MODEL #	NOMINAL TONS	REFRIG.	COOLING					INDOOR UNIT	ELECTRICAL				WEIGHT (LBS)	REMARKS	WIRING DETAIL	ANCHORAGE DETAIL
				TOTAL CAPACITY (BTU/h)	SENSIBLE CAPACITY (BTU/h)	SEER	EER	AMBIENT (°F DB)		V	PH	MCA	MOCP				
SCU 1	LG KUSAP241A	2.0	R-32	24,000	18,000	22.0	13.0	95	SFC 1	208	1	19	30	150	1	5 M5.2	11 M5.1
SCU 2	LG KUSAP241A	2.0	R-32	24,000	18,000	22.0	13.0	95	SFC 2	208	1	19	30	150	1	5 M5.2	11 M5.1

1. PROVIDE WITH PROGRAMMABLE THERMOSTAT, LOW TEMP KIT, COATED COILS, AND NEOPRENE PADS.

SPLIT SYSTEM INDOOR WALL MOUNTED FAN COIL UNIT SCHEDULE

SYM	MFR & MODEL #	AREA SERVICED	NOMINAL TONS	CFM	FAN POWER (WATT)	FILTER EFFICIENCY	OUTDOOR UNIT	ELECTRICAL				WEIGHT (LBS)	REMARKS	WIRING DETAIL	ANCHORAGE DETAIL
								V	PH	MCA	MOCP				
SFC 1	LG KNSAP241A	IDF	2.0	600	-	WASHABLE	SCU 1	208	1	POWERED BY OUTDOOR UNIT		40	1	5 M5.2	6 M5.1
SFC 2	LG KNSAP241A	IDF	2.0	600	-	WASHABLE	SCU 2	208	1			40	1	5 M5.2	6 M5.1

1. PROVIDE WITH CONDENSATE PUMP. POWERED FROM OUTDOOR UNIT

GAS FIRED UNIT HEATER SCHEDULE

SYM	MFR & MODEL #	AREA SERVICED	CFM	MOTOR HP	INPUT (BTU/h)	OUTPUT (BTU/h)	AFUE (%)	FLUE SIZE (IN)	ELECTRICAL				WEIGHT (LBS)	REMARKS	WIRING DETAIL	ANCHORAGE DETAIL
									V	PH	MCA	MOCP				
UH 1	REZNOR UEZ-180	APP BAY	2,458	1/4	175,000	159,250	91	4	115	1	6.3	15	300	1	12 M5.2	11 M5.2
UH 2	REZNOR UEZ-180	APP BAY	2,458	1/4	175,000	159,250	91	4	115	1	6.3	15	300	1	12 M5.2	11 M5.2

1. PROVIDE WITH FACTORY HANGING KIT, AND THERMOSTAT

VRF - HEAT RECOVERY UNIT SCHEDULE

SYM	MFR & MODEL #	NOMINAL TONS	REFRIG.	COOLING					HEATING			ELECTRICAL			WEIGHT (LBS)	REMARKS	PIPING DETAIL	WIRING DETAIL	ANCHORAGE DETAIL
				TOTAL CAPACITY (BTU/h)	SENSIBLE CAPACITY (BTU/h)	SEER	EER	AMBIENT (°F DB)	OUTPUT (BTU/h)	COP	AMBIENT (°F DB)	V	PH	MODULE 1 MCA / MOCP					
HRU 1	LG ZRUM216BTE6	18.0	R-32	216,000	165,000	17.4	15.0	95	243,000	4.2	47	208	3	72.72 / 80	800	1	2 M5.3	1 M5.3	2 M5.2
HRU 2	LG ZRUM072BTE6	6.0	R-32	72,000	54,000	17.4	15.0	95	81,000	4.2	47	208	3	31.81 / 35	500	1	4 M5.3	3 M5.3	2 M5.2
HRU 3	LG ZRUM072BTE6	6.0	R-32	72,000	54,000	17.4	15.0	95	81,000	4.2	47	208	3	31.81 / 35	500	1	6 M5.3	5 M5.3	2 M5.2

1. PROVIDE WITH LGRED CONTROLS, COATED COILS, AND NEOPRENE MOUNTING PADS

VRF - FAN COIL UNIT SCHEDULE

SYM	MFR & MODEL #	AREA SERVICED	NOMINAL TONS	CFM	OSA CFM	ESP (IN. WG)	COOLING		HEATING	FILTER EFFICIENCY	OUTDOOR UNIT	ELECTRICAL				WEIGHT (LBS)	REMARKS	WIRING DETAIL	PIPING DETAIL	ANCHORAGE DETAIL
							TOTAL CAP (BTUH)	SENSIBLE CAP (BTUH)	TOTAL CAP (BTUH)			V	PH	MCA	MOCP					
FC 1-1	LG ZRNU363M2AA	FITNESS	3.0	1050	150	0.50	36,200	27,100	40,600	MERV 13	HRU 1	208	1	3.20	15	100	1	1 M5.3	2 M5.3	12 M5.1
FC 1-2	LG ZRNU073TAAA	OFFICE	0.5	265	20	-	7,500	5,400	8,500	MERV 13	HRU 1	208	1	2.20	15	30	1, 2	1 M5.3	2 M5.3	7 M5.1
FC 1-3	LG ZRNU073TAAA	CAPT OFFICE	0.5	265	20	-	7,500	5,400	8,500	MERV 13	HRU 1	208	1	2.20	15	30	1, 2	1 M5.3	2 M5.3	7 M5.1
FC 1-4	LG ZRNU073TAAA	LOBBY	0.5	265	20	-	7,500	5,400	8,500	MERV 13	HRU 1	208	1	2.20	15	30	1, 2	1 M5.3	2 M5.3	7 M5.1
FC 1-5	LG ZRNU123MAAA	HALLWAY	1.0	400	75	0.50	12,300	9,700	13,600	MERV 13	HRU 1	208	1	2.90	15	95	1	1 M5.3	2 M5.3	12 M5.1
FC 1-6	LG ZRNU363M2AA	CLASSROOM	3.0	1050	200	0.50	36,200	27,100	40,600	MERV 13	HRU 1	208	1	3.20	15	100	1	1 M5.3	2 M5.3	12 M5.1
FC 1-7	LG ZRNU243TAAA	TURNOUT	2.0	810	50	-	24,300	19,500	25,600	MERV 13	HRU 1	208	1	2.20	15	100	1, 2	1 M5.3	2 M5.3	7 M5.1
FC 2-1	LG ZRNU073TAAA	DORM	0.5	265	20	-	7,500	5,400	8,500	MERV 13	HRU 1	208	1	2.20	15	30	1, 2	1 M5.3	2 M5.3	7 M5.1
FC 2-2	LG ZRNU073TAAA	DORM	0.5	265	20	-	7,500	5,400	8,500	MERV 13	HRU 1	208	1	2.20	15	30	1, 2	1 M5.3	2 M5.3	7 M5.1
FC 2-3	LG ZRNU093TAAA	CAPT DORM	0.75	285	20	-	9,600	6,900	10,900	MERV 13	HRU 1	208	1	2.20	15	40	1, 2	1 M5.3	2 M5.3	7 M5.1
FC 2-4	LG ZRNU073TAAA	DORM	0.5	265	20	-	7,500	5,400	8,500	MERV 13	HRU 1	208	1	2.20	15	30	1, 2	1 M5.3	2 M5.3	7 M5.1
FC 2-5	LG ZRNU093TAAA	BC DORM	0.75	285	20	-	9,600	6,900	10,900	MERV 13	HRU 1	208	1	2.20	15	40	1, 2	1 M5.3	2 M5.3	7 M5.1
FC 2-6	LG ZRNU123MAAA	HALLWAY	1.0	400	75	0.50	12,300	9,700	13,600	MERV 13	HRU 1	208	1	2.90	15	95	1	1 M5.3	2 M5.3	12 M5.1
FC 2-7	LG ZRNU483M3AA	DINING / DAYRM	4.0	1,500	175	0.50	48,100	36,100	52,200	MERV 13	HRU 1	208	1	3.20	15	110	1	1 M5.3	2 M5.3	12 M5.1
FC 3-1	LG ZRND093DCRA	OUTSIDE AIR	4.0	500	500	0.70	20,800	19,000	39,000	MERV 13	HRU 2	208	1	2.50	15	175	1	3 M5.3	4 M5.3	12 M5.1
FC 3-2	LG ZRND093DCRA	OUTSIDE AIR	4.0	500	500	0.70	20,800	19,000	39,000	MERV 13	HRU 3	208	1	2.50	15	175	1	3 M5.3	4 M5.3	12 M5.1

1. PROVIDE WITH FACTORY FILTER BOX AND MERV 13 FILTERS, LGRED CONTROLS AND PROGRAMMABLE THERMOSTAT, OVERFLOW SHUTOFF, AND CONDENSATE PUMP
2. PROVIDE WITH VENTILATION KIT

VRF - BRANCH SELECTOR UNIT SCHEDULE

SYM	MFR & MODEL #	TOTAL CAPACITY (BTU)	PORTS	OUTDOOR UNIT	ELECTRICAL				WEIGHT (LBS)	REMARKS	ANCHORAGE DETAIL
					V	PH	MCA	MOCP			
BS 1	LG PRHR085A	230,000	8	HRU 1	208	1	0.94	15	150	1	5 M5.1
BS 2	LG PRHR085A	230,000	8	HRU 1	208	1	0.94	15	150	1	5 M5.1

1. PROVIDE FACTORY CONNECTORS AS NECESSARY.

FAN SCHEDULE

SYM	MFR & MODEL #	SERVICE	CFM	ESP	HP	BHP	ELECTRICAL		FAN RPM	WT (LBS)	REMARKS	CONTROL DETAIL	ANCHORAGE DETAIL
							V	PH					
EF 1	GREENHECK CSP-A390-VG	FITNESS	200	0.5	1/4	0.05	115	1	1,241	50	2	6 M5.2	9 M5.1
EF 2	GREENHECK SP-A90-130-VG	RESTROOM	100	0.5	-	12W	115	1	960	30	1	8 M5.2	16 M5.1
EF 3	GREENHECK CSP-A390-VG	ELEC ROOM	300	0.5	1/4	0.1	115	1	1,356	50	2	7 M5.2	9 M5.1
EF 4	GREENHECK SP-A90-130-VG	JANITOR	100	0.5	-	12W	115	1	960	30	1	8 M5.2	16 M5.1
EF 5	GREENHECK SP-A90-130-VG	RESTROOM	100	0.5	-	12W	115	1	960	30	1	8 M5.2	16 M5.1
EF 6	GREENHECK SP-A250	DECON RR	200	0.5	-	83W	115	1	1,000	50	1	8 M5.2	16 M5.1
EF 7	GREENHECK SP-A90-130-VG	RESTROOM	100	0.5	-	12W	115	1	960	30	1	8 M5.2	16 M5.1
EF 8	GREENHECK SP-A90-130-VG	RESTROOM	100	0.5	-	12W	115	1	960	30	1	8 M5.2	16 M5.1
EF 9	GREENHECK SP-A90-130-VG	RESTROOM	100	0.5	-	12W	115	1	960	30	1	8 M5.2	16 M5.1
EF 10	GREENHECK SP-A90-130-VG	RESTROOM	100	0.5	-	12W	115	1	960	30	1	8 M5.2	16 M5.1
EF 11	GREENHECK SQ-16-M2-VG	APP BAY	4,200	1.2	2.0	1.3	208	3	1,613	200	2	9 M5.2	9 M5.1
BF 1	FANTECH FG-8	CEILING	60	1.0	-	109W	120	1	2,800	15	2	6 M5.2	9 M5.1

1. PROVIDE WITH BACKDRAFT DAMPER AND ROOF CAP
2. PROVIDE WITH BACKDRAFT DAMPER

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BID SET

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CLIENT
COASTSIDE FIRE PROTECTION DISTRICT
PROJECT NUMBER
230137
DATE 3/13/2026
DRAWN BY: KF/OS CHKED BY: AD

REVISIONS

#	DESCRIPTION	DATE
1	PLANCHECK #1 RESPONSE	12/11/25
2	PLANCHECK #2 RESPONSE	03/13/26
B	NON-PC REVISION	03/13/26
3	PLANCHECK #3 RESPONSE	05/22/2026
4	PLANCHECK #4 RESPONSE	07/24/2026
6	ADDENDUM #6	10/23/2026

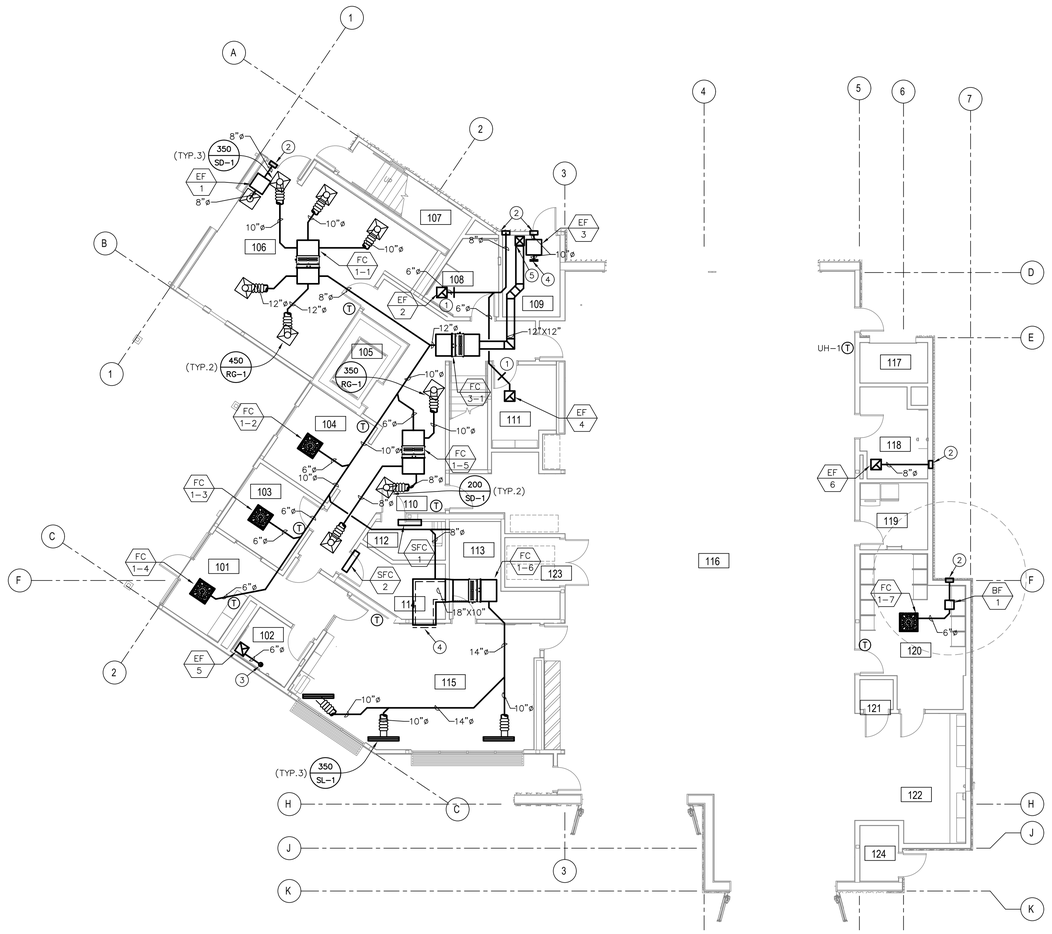
MECHANICAL FIXTURE SCHEDULES

M0.2

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ROOM #	ROOM NAME	ROOM #	ROOM NAME
101	LOBBY	201	BATTALION CHIEF
102	RESTROOM	202	BALCONY
103	CAPTAIN'S OFFICE	203	BC RESTROOM
104	OFFICE	204	DORM 1
105	ELEVATOR	205	RESTROOM
106	FITNESS	206	ELEVATOR
107	STAIRWAY 1	207	RESTROOM
108	RESTROOM	208	CAPTAIN
109	ELECTRICAL ROOM	209	DORM 2
110	HALLWAY	210	DORM 3
111	CUSTODIAL	211	LAUNDRY
112	ELEVATOR MACHINE	212	HALLWAY
113	STORAGE	213	ACCESSIBLE RR
114	TELECOM	214	BESTIBULE
115	CLASSROOM	215	STORAGE
116	APPARATUS BAY	216	PANTRY
117	YARD STORAGE	217	KITCHEN
118	DECON	218	DINING
119	EMS STORAGE	219	DAYROOM
120	TURNOUT	220	DECK
121	COMPRESSOR		
122	SHOP		
123	HOSE DRY STORAGE		
124	FIRE RISER		
125	VESTIBULE		



CONSTRUCTION NOTES:

1. ENTIRE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE 2022 CALIFORNIA MECHANICAL CODE, 2022 CALIFORNIA BUILDING CODE, AND ALL OTHER APPLICABLE CODES AND REGULATIONS, INCLUDING 2022 CALIFORNIA ENERGY CONSERVATION STANDARDS DIVISION T–24.
2. COORDINATE ENTIRE INSTALLATION OF THE HVAC SYSTEM WITH THE WORK OF ALL OTHER TRADES PRIOR TO ANY FABRICATION OR INSTALLATION. PROVIDE ALL FITTINGS, OFFSETS, AND TRANSITIONS AS REQUIRED FOR A COMPLETE WORKABLE INSTALLATION. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ITEMS TO BE PROVIDED BY OTHER TRADES WHERE MENTIONED IN THE CONTRACT DOCUMENTS PRIOR TO BID – NO EXCEPTIONS.
3. COORDINATE THE LOCATIONS OF ALL CEILING DIFFUSERS, REGISTERS, AND GRILLES WITH THE ARCHITECTURAL REFLECTIVE CEILING PLAN, ELECTRICAL LIGHTING LAYOUT AND ARCHITECTURAL ROOM ELEVATIONS. THE ARCHITECT AND ENGINEER SHALL BE IMMEDIATELY NOTIFIED OF ANY CONFLICTS PRIOR TO FABRICATION AND INSTALLATION.
4. FOR INACCESSIBLE AREAS THE CONTRACTOR SHALL PROVIDE ACCESS PANELS FOR ALL DAMPERS, EQUIPMENT, SMOKE DETECTORS, AND CONTROL DEVICES. THESE PANELS SHALL MATCH THE RATING OF THE WALL AND/OR CEILING THAT THEY ARE LOCATED IN. MINIMUM ACCESS PANEL SIZES SHALL BE AS FOLLOWS:
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5. PLATFORMS, CURBS, AND FLASHINGS FOR MECHANICAL EQUIPMENT SHALL BE AS INDICATED ON THE STRUCTURAL AND ARCHITECTURAL PLANS, UNLESS NOTED OTHERWISE. WHERE THERE IS A CONFLICT WITH THE MECHANICAL PLANS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND ENGINEER PRIOR TO FABRICATION AND INSTALLATION.
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CONSTRUCTION KEY NOTES:

1. PROVIDE EXHAUST FAN WITH BACK DRAFT DAMPER.
2. EXTERIOR LOUVER WITH 1 SQ FT MINIMUM OF FREE AREA. SEE ARCH DWGS FOR ELEVATION.
3. 6"ø EXHAUST AIR DUCT UP THRU SHAFT.
4. PROVIDE WIRE–MESH OVER OPENING.
5. 14"X14" OSA DUCT UP IN SHAFT TO SECOND FLOOR.

NORTH

MECHANICAL FIRST FLOOR PLAN

SCALE 1/8"=1'–0" | 1

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FIRE STATION #44
COASTSIDE FIRE PROTECTION DISTRICT
501 STETSON STREET
MOSS BEACH, CA 94038
BID SET

COASTSIDE FIRE PROTECTION DISTRICT EST 2007

BID SET

KEY PLAN
PLAN NORTH
TRUE NORTH

REGISTERED PROFESSIONAL ENGINEER
ANDREW R. OSSMAN
No. M29629
Exp. 3/31/26
MECHANICAL
STATE OF CALIFORNIA

CLIENT
COASTSIDE FIRE PROTECTION DISTRICT
PROJECT NUMBER
23013?
DATE 3/13/2026
DRAWN BY: KF/OS CHKED BY: AD

REVISIONS

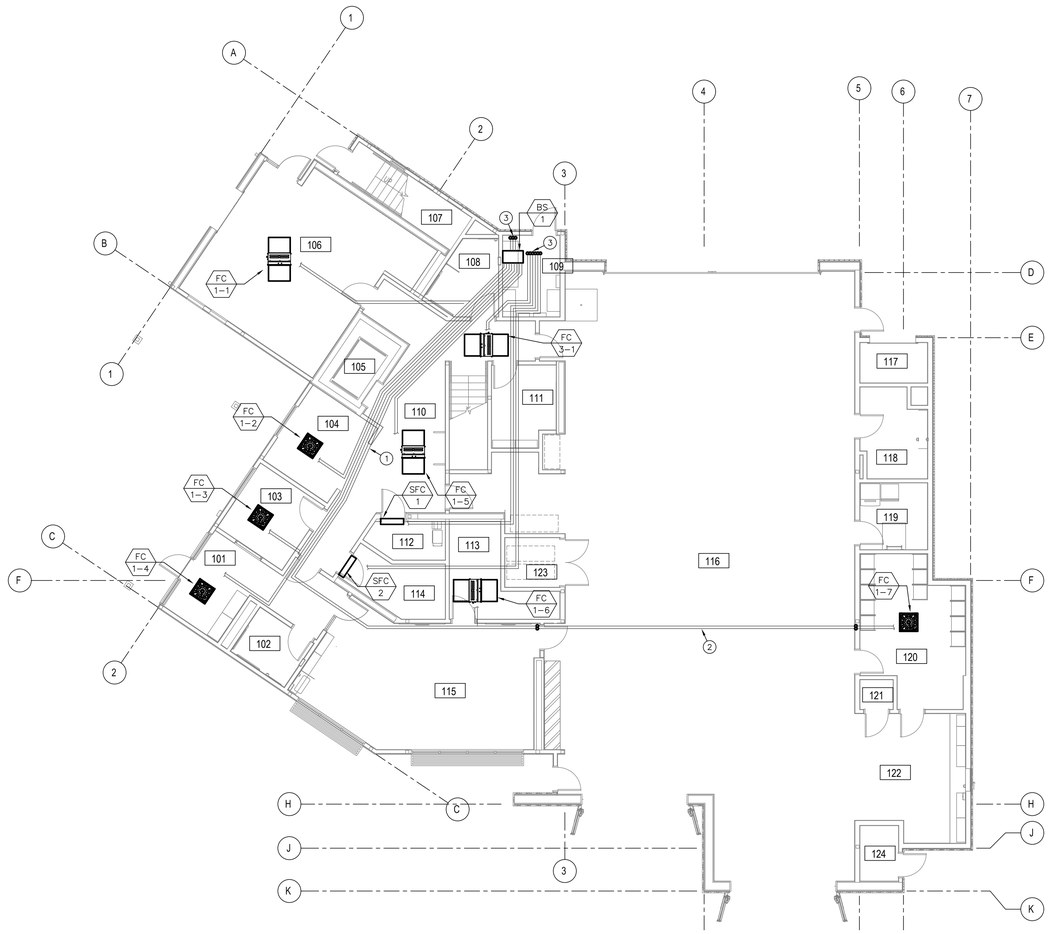
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1	PLANCHECK #1 RESPONSE	12/11/25
2	PLANCHECK #2 RESPONSE	03/13/26
B	NON-PC REVISION	03/13/26
3	PLANCHECK #3 RESPONSE	05/22/2026
4	PLANCHECK #4 RESPONSE	07/24/2026
6	ADDENDUM #6	10/23/2026

MECHANICAL FIRST FLOOR PLAN

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M2.1

ROOM #	ROOM NAME	ROOM #	ROOM NAME
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102	RESTROOM	202	BALCONY
103	CAPTAIN'S OFFICE	203	BC RESTROOM
104	OFFICE	204	DORM 1
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CONSTRUCTION KEY NOTES:

(1) SEE SHEET M5.3 FOR REFRIGERANT PIPE SIZES. CONTRACTOR TO VERIFY REFRIGERANT PIPING SIZE AND ROUTING WITH MANUFACTURER PRIOR TO ORDERING.

(2) REFRIGERANT PIPING TO BE CONCEALED ABOVE DROPPED CEILING.

(3) REFRIGERANT PIPING UP TO SECOND FLOOR.

NORTH

MECHANICAL PIPING FIRST FLOOR PLAN

SCALE 1/8"=1'–0" | 1

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BID SET

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ANDREW R. GOSSMAN
No. M29639
Exp. 3/31/26
MECHANICAL
STATE OF CALIFORNIA

CLIENT
COASTSIDE FIRE PROTECTION DISTRICT
PROJECT NUMBER 230137
DATE 3/13/2026
DRAWN BY: KF/OS CHKED BY: AD

REVISIONS

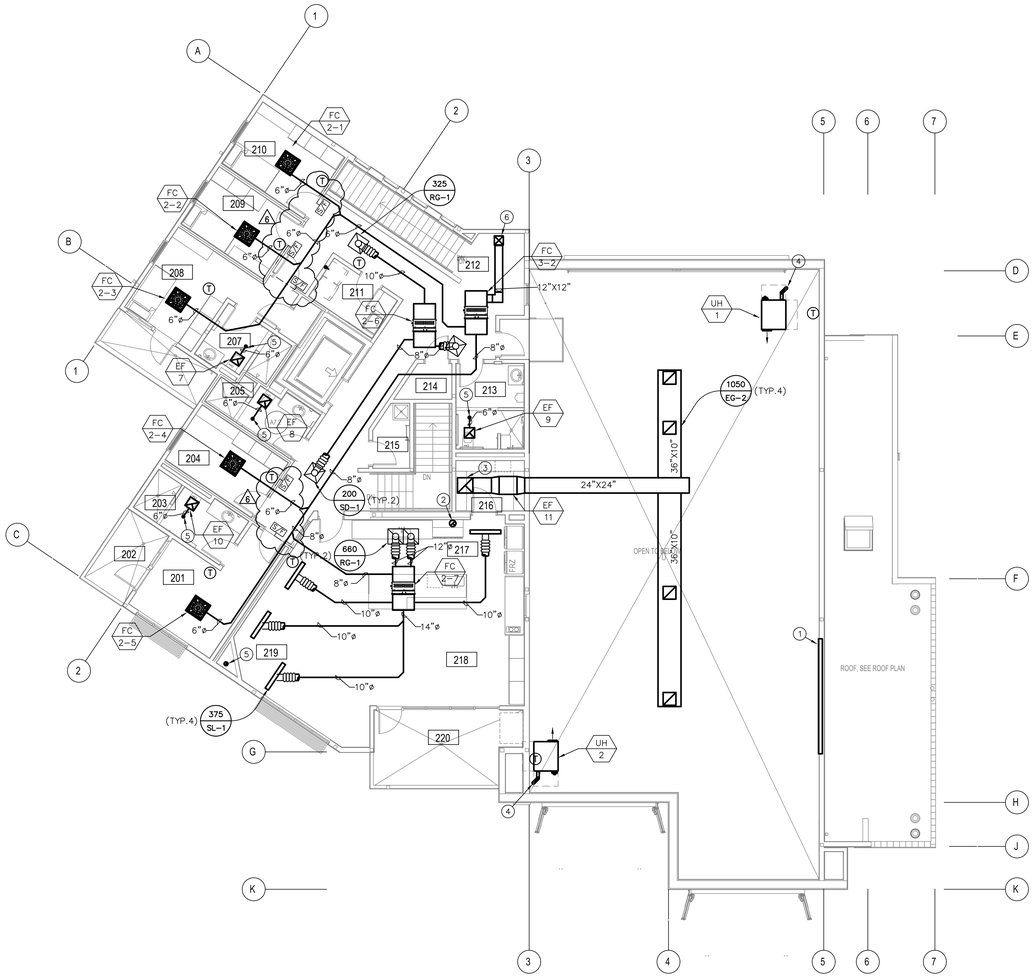
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5	ADDENDUM #5	10/23/2026

MECHANICAL PIPING FIRST FLOOR PLAN

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M2.1P

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CONSTRUCTION KEY NOTES:

1. MAKEUP AIR LOUVER WITH MIN. 10 SQ FT OF FREE AREA AND MAX HEIGHT OF 36".
2. 10"ø EXHAUST AIR DUCT DOWN TO P.O.C. AT KITCHEN HOOD AND UP THRU ROOF.
3. 24"X24" EXHAUST AIR DUCT UP THRU ROOF.
4. 4" VENT UP THRU ROOF.
5. 6" EXHAUST AIR DUCT UP THRU ROOF TO TERMINATE WITH ROOF CAP.
6. 14"X14" OSA DUCT UP THRU ROOF AND DOWN TO FIRST FLOOR.

NORTH

MECHANICAL SECOND FLOOR PLAN

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

Not for permitting or construction

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PDS
PocockDesignSolutions Inc.

FIRE STATION #44
COASTSIDE FIRE PROTECTION DISTRICT
501 STETSON STREET
MOSS BEACH, CA 94038
BID SET

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KEY PLAN
PLAN NORTH
TRUE NORTH

REGISTERED PROFESSIONAL ENGINEER
ANDREW R. GOSSMAN
No. M28826
Exp. 3/31/26
MECHANICAL
STATE OF CALIFORNIA

CLIENT
COASTSIDE FIRE PROTECTION DISTRICT
PROJECT NUMBER 230137
DATE 3/13/2026
DRAWN BY: KF/OS CHKED BY: AD

REVISIONS

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4	PLANCHECK #4 RESPONSE	07/24/2026
6	ADDENDUM #6	10/23/2026

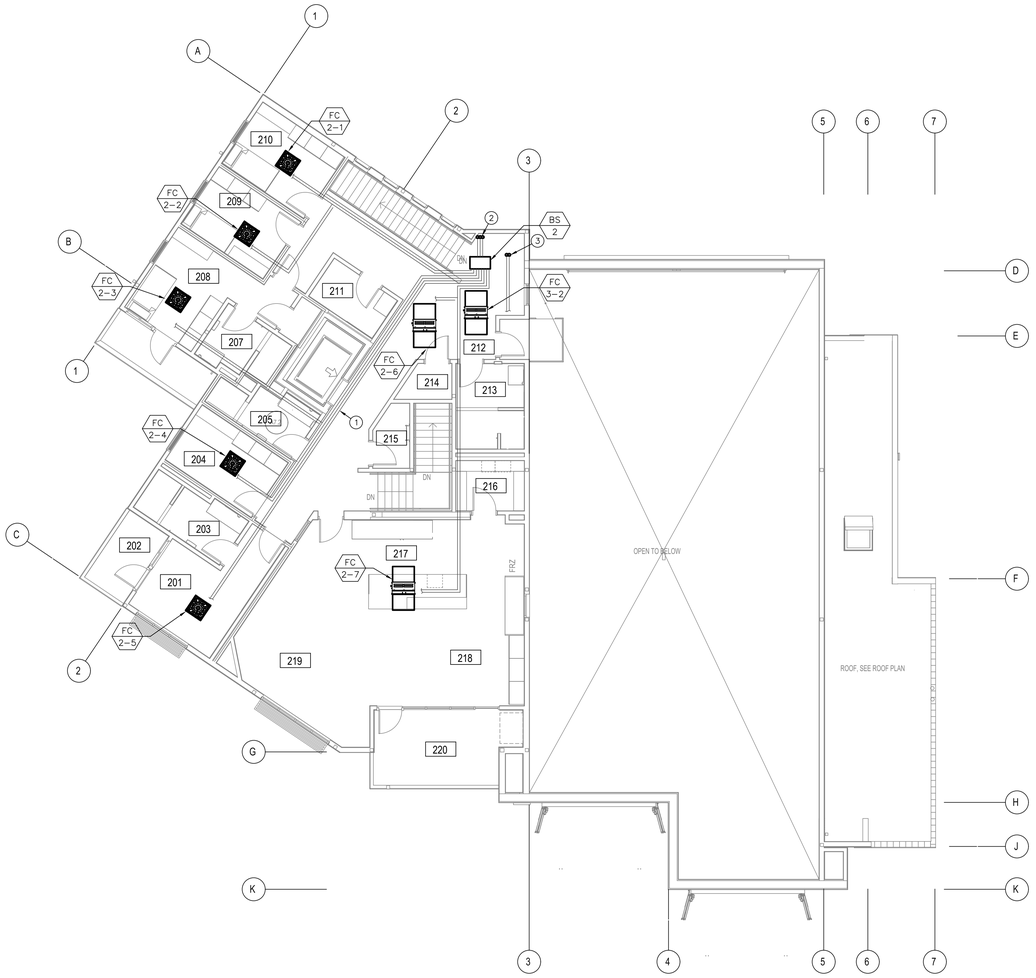
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MECHANICAL SECOND FLOOR PLAN

M2.2

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ROOM #	ROOM NAME	ROOM #	ROOM NAME
101	LOBBY	201	BATTALION CHIEF
102	RESTROOM	202	BALCONY
103	CAPTAIN'S OFFICE	203	BC RESTROOM
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CONSTRUCTION KEY NOTES:

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(2) REFRIGERANT PIPING DOWN TO FIRST FLOOR AND UP TO ROOF.

(3) REFRIGERANT PIPING UP TO ROOF.

NORTH

MECHANICAL PIPING SECOND FLOOR PLAN

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

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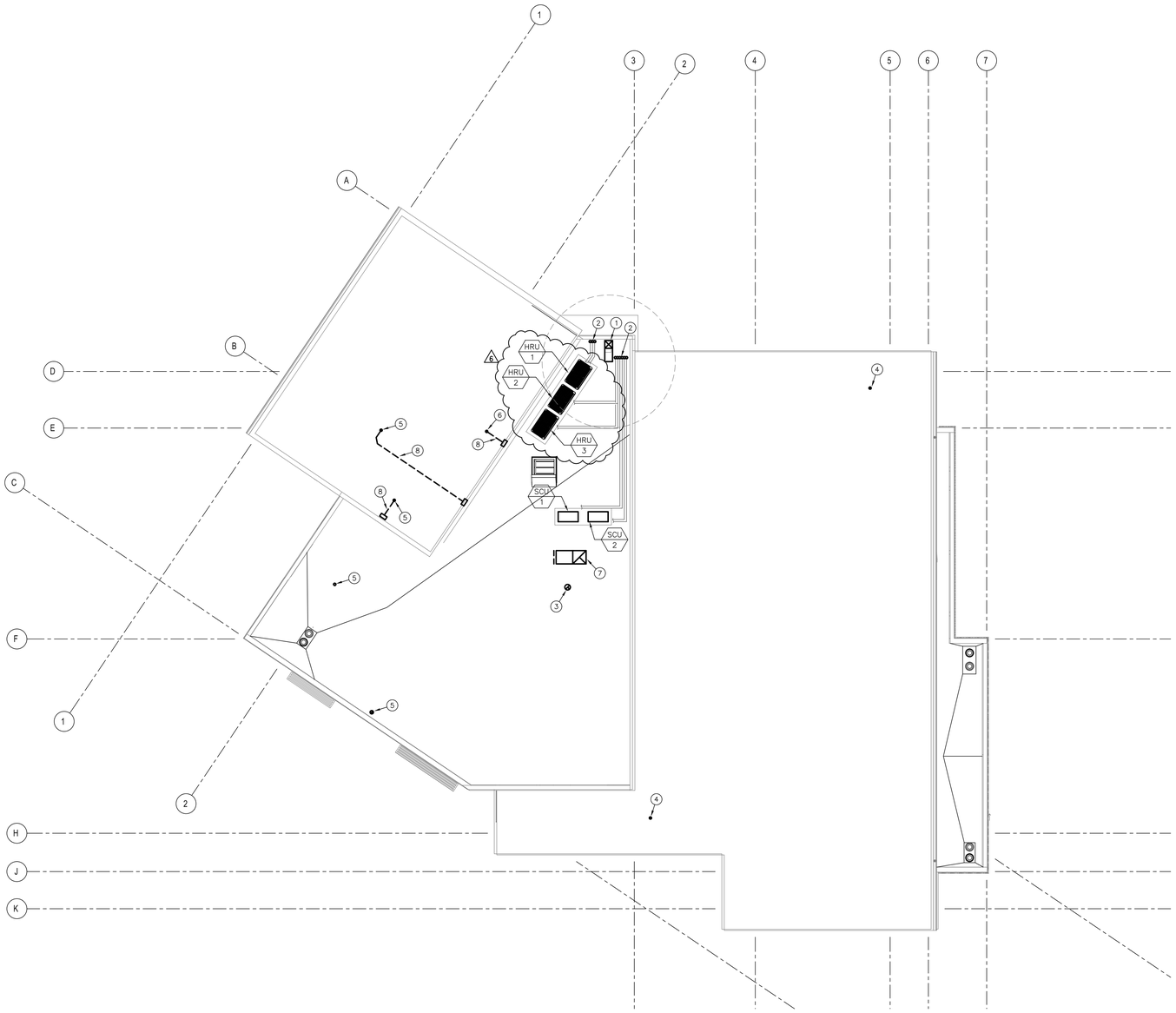
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MECHANICAL PIPING SECOND FLOOR PLAN

M2.2P

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CONSTRUCTION KEY NOTES:

1. 14"X14" OSA DUCT DOWN THRU ROOF AND TO TERMINATE ABOVE ROOF WITH GOOSENECK. SEE DETAIL 10/M5.1.
2. REFRIGERANT PIPING DOWN THRU ROOF. SEE DETAIL 14/M5.1. SEE SHEET M5.3 FOR REFRIGERANT PIPE SIZES. CONTRACTOR TO VERIFY REFRIGERANT PIPING SIZE AND ROUTING WITH MANUFACTURER PRIOR TO ORDERING.
3. 10ø EXHAUST AIR DUCT DOWN THRU ROOF. TO TERMINATE ABOVE ROOFLINE WITH FACTORY ROOF CAP.
4. 4"ø FLUE DOWN THRU ROOF. TO TERMINATE PER MANUFACTURER RECOMMENDATIONS.
5. 6"ø EXHAUST AIR DUCT DOWN THRU ROOF. TO TERMINATE ABOVE ROOFLINE WITH FACTORY WALL CAP. SEE DETAIL 16/M5.1.
6. 4"ø DRYER EXHAUST AIR DUCT DOWN THRU ROOF. TO TERMINATE ABOVE ROOFLINE WITH FACTORY WALL CAP.
7. 24"X24" EXHAUST DUCT DOWN THRU ROOF. TO TERMINATE ABOVE ROOFLINE WITH GOOSENECK. SEE DETAIL 10/M5.1.
8. DUCT TO BE INSTALLED BELOW GABLE ROOF.

NORTH

MECHANICAL ROOF PLAN

SCALE 1/8"=1'–0" | 1

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PBK
ARCHITECT PBK Architects, Inc.
PBK.com
SAN LUIS OBISPO
1327 Archer Street, Suite 110
San Luis Obispo, CA 93401
805-329-3076

PDS
PocockDesignSolutions Inc.

FIRE STATION #44
COASTSIDE FIRE PROTECTION DISTRICT
501 STETSON STREET
MOSS BEACH, CA 94038
BID SET

BID SET

KEY PLAN
PLAN NORTH
TRUE NORTH

REGISTERED PROFESSIONAL ENGINEER
ANDREW R. GOSSMAN
No. M28826
Exp. 3/31/26
MECHANICAL
STATE OF CALIFORNIA

CLIENT
COASTSIDE FIRE PROTECTION DISTRICT
PROJECT NUMBER 230137
DATE 3/13/2026
DRAWN BY: KF/OS CHKED BY: AD

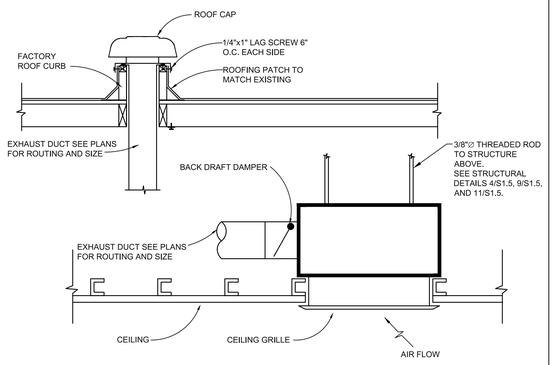
REVISIONS

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4	PLANCHECK #4 RESPONSE	07/24/2026
6	ADDENDUM #6	10/23/2026

MECHANICAL ROOF PLAN

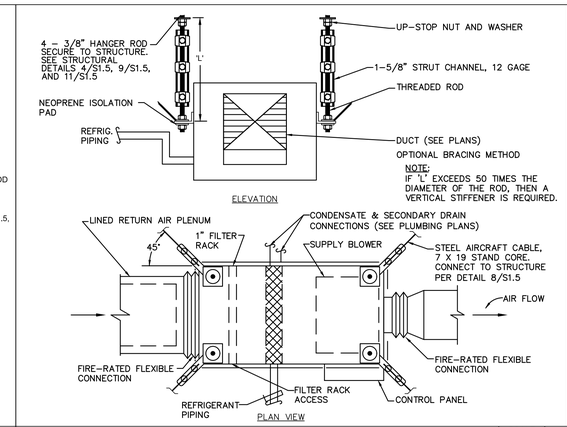
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M3.1



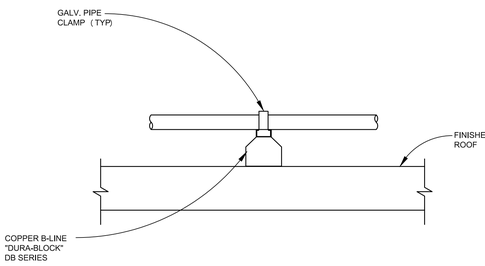
CEILING EXHAUST FAN ANCHORAGE DETAIL

SCALE: NONE | 16



DUCTED FAN COIL ANCHORAGE

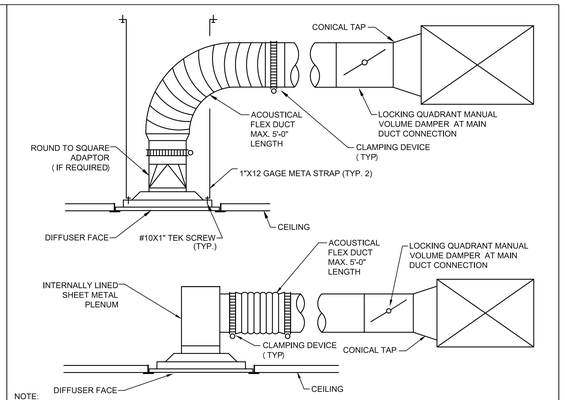
SCALE: NONE | 12



NOTES:
1. COORDINATE WITH ROOFING MANUFACTURER TO ENSURE PROPER INSTALLATION IN ACCORDANCE WITH ALL ROOFING WARRANTEES, EXISTING OR NEW, AND SO AS NOT TO VOID SUCH WARRANTEES.

BASE-MOUNTED PIPING SUPPORT DETAIL

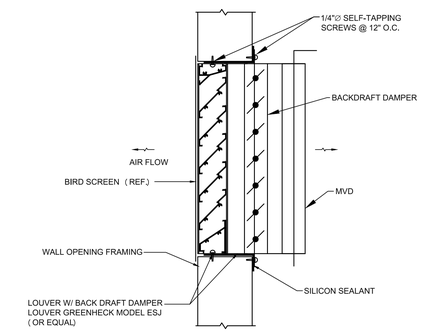
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NOTE:
FLEXIBLE DUCT SHALL NOT EXCEED 5'-0" IN LENGTH AND SHALL NOT BE USED IN LIEU OF A RIGID ELBOW OR TRANSITION PER CMC REQUIREMENTS.

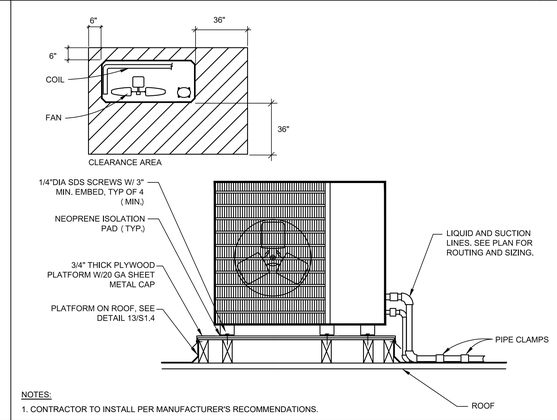
CEILING DIFFUSER DETAIL

SCALE: NONE | 4



EXTERIOR LOUVER ATTACHMENT DETAIL

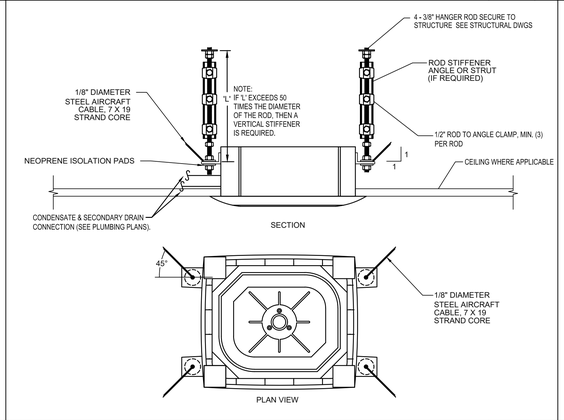
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NOTES:
1. CONTRACTOR TO INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

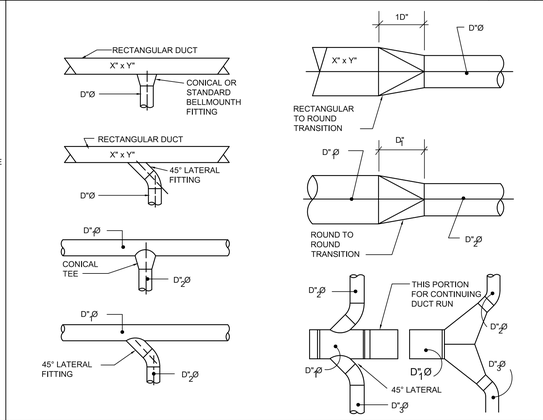
CONDENSING UNIT ANCHORAGE DETAIL

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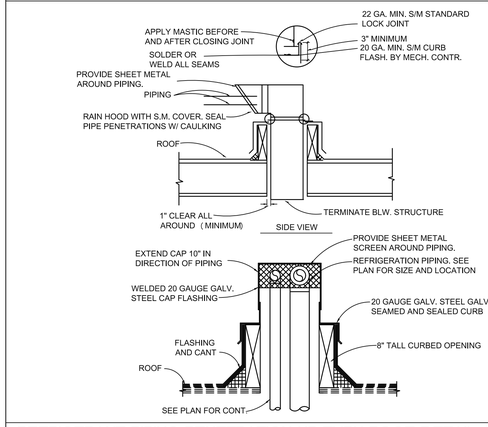
CASSETTE FAN COIL ANCHORAGE

SCALE: NONE | 7



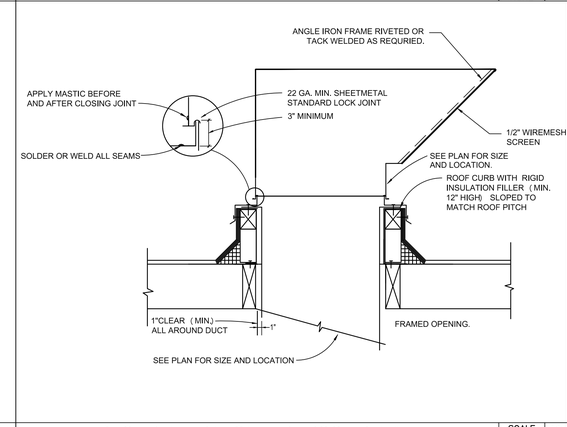
DUCTWORK TRANSITION DETAIL

SCALE: NONE | 3



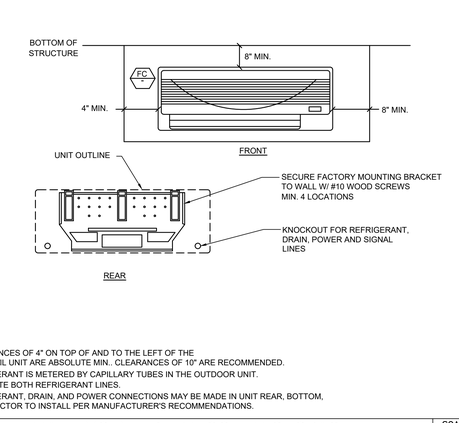
REFRIGERANT PIPING PENETRATION UP THRU ROOF DETAIL

SCALE: NONE | 14



DUCT PENETRATION THRU ROOF DETAIL

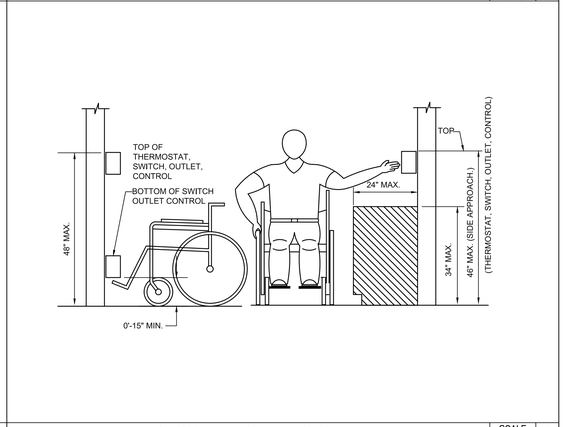
SCALE: NONE | 10



NOTES:
1. CLEARANCES OF 4" ON TOP OF AND TO THE LEFT OF THE FAN COIL UNIT ARE ABSOLUTE MIN.. CLEARANCES OF 10" ARE RECOMMENDED.
2. REFRIGERANT IS METERED BY CAPILLARY TUBES IN THE OUTDOOR UNIT. INSULATE BOTH REFRIGERANT LINES.
3. REFRIGERANT, DRAIN, AND POWER CONNECTIONS MAY BE MADE IN UNIT REAR, BOTTOM,
4. CONTRACTOR TO INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

WALL-MOUNTED FAN COIL ANCHORAGE

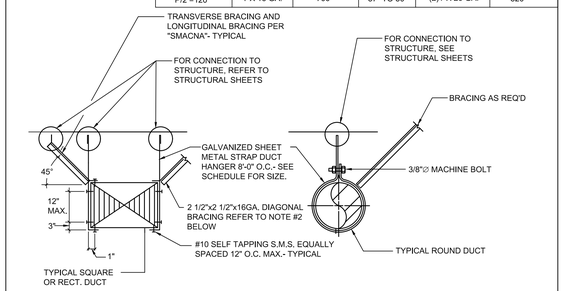
SCALE: NONE | 6



THERMOSTAT MOUNTING DETAIL

SCALE: NONE | 2

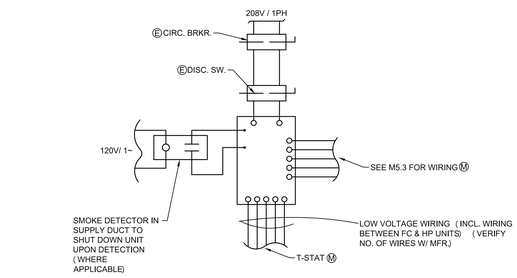
RECTANGULAR DUCT			ROUND DUCT		
MAX. OF DUCT PERIMETER/IN.	PAIR AT 8 FT. SPACING	MAX. LOAD EACH HANGER/LBS.	DIAMETER /INCHES	STRAP AT 12 FT., SPACING	MAX. LOAD EACH HANGER/LBS.
P/2 =72	1"X 20 GA.	320	UP TO 24"	1"X 22 GA.	260
P/2 =96	1"X 18 GA.	420	25" TO 36"	1"X 20 GA.	320
P/2 =120	1"X 16 GA.	700	37" TO 50"	(2)1"X 20 GA.	320



NOTES:
1. PROVIDE TRANSVERSE BRACING AT 40 FT. AND LONGITUDINAL BRACING AT 80 FT. (LATEST SMACNA SEISMIC RESTRAINT MANUAL)

DUCTWORK HANGER SUPPORT DETAIL

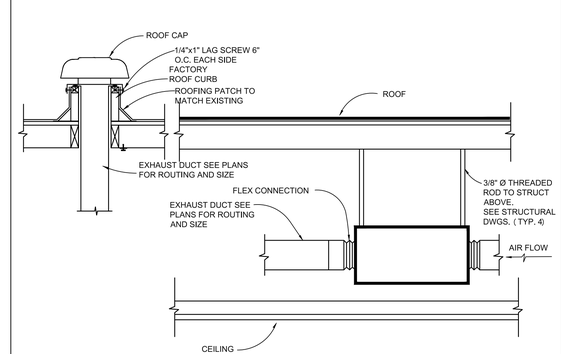
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LEGEND:
(E) PROVIDED BY ELEC.
(M) PROVIDED BY MECH.

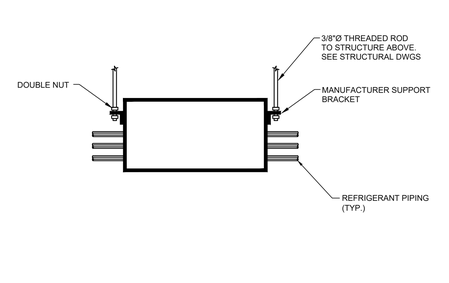
FAN COIL UNIT WIRING DIAGRAM

SCALE: NONE | 13



INLINE EXHAUST FAN ANCHORAGE DETAIL

SCALE: NONE | 9



BRANCH SELECTOR ANCHORAGE

SCALE: NONE | 5

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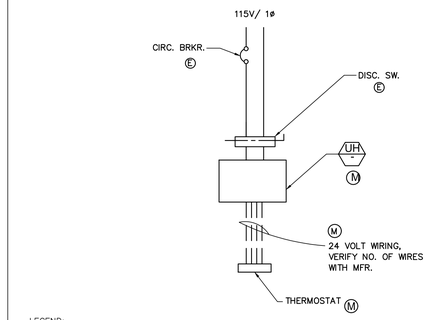
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6	ADDENDUM #6	10/23/2026

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MECHANICAL DETAILS

M5.1



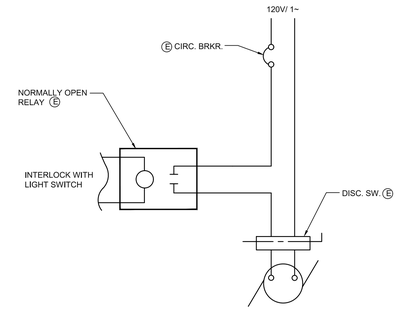
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M PROVIDED BY MECH.

UNIT HEATER WIRING DIAGRAM

SCALE NONE 12



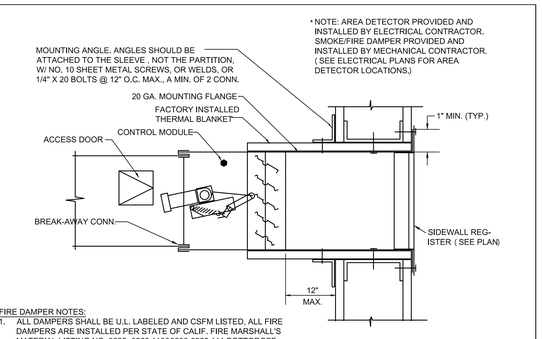
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M PROVIDED BY MECH.

EXHAUST FAN WIRING DIAGRAM

SCALE NONE 8

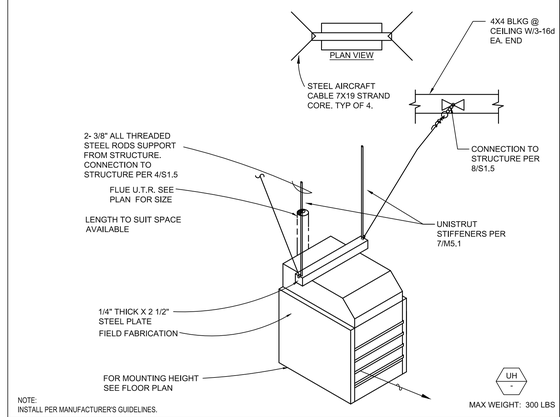


FIRE DAMPER NOTES:

1. ALL DAMPERS SHALL BE U.L. LABELED AND CSFM LISTED, ALL FIRE DAMPERS ARE INSTALLED PER STATE OF CALIF. FIRE MARSHALL'S MATERIAL LISTING NO. 3225- 0368:110&3230-0368:111 POTTOROFF FSD-141-OP OR EQUAL.
2. DAMPER DETAIL FOR REFERENCE ONLY. DAMPERS SHALL BE STATE FIRE MARSHALL APPROVED AND INSTALLED STRICTLY PER MANUFACTURER'S PRINTED INSTRUCTIONS MANUFACTURE'S INSTALLATION INSTRUCTIONS SHALL BE MADE AVAILABLE TO THE INSPECTING AUTHORITIES.
3. PROVIDE SQUARE TO ROUND CAP AND/OR TRANSITION TO DUCT AS REQUIRED.

SMOKE / FIRE COMBINATION DAMPER DETAIL

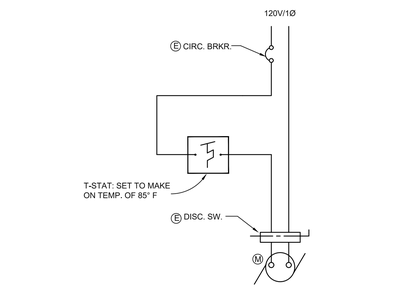
SCALE NONE 4



NOTE:
INSTALL PER MANUFACTURER'S GUIDELINES.

UNIT HEATER ANCHORAGE DETAIL

SCALE NONE 11



LEGEND:

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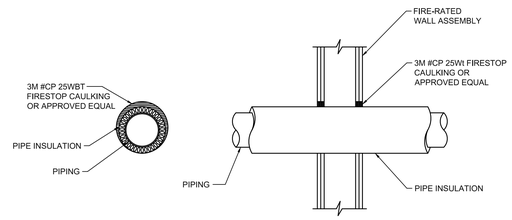
M PROVIDED BY MECH.

EXHAUST FAN WIRING DIAGRAM

SCALE NONE 7

U.L. LISTED SYSTEM NO. W-L-5039:

1. F RATINGS - 1 AND 2 HR
2. T RATINGS - 3/4, 1 AND 1-1/2 HR



NOTES:

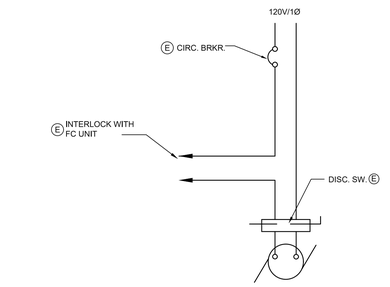
1. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS 1 HR WHEN INSTALLED IN A 1 HR FIRE RATED WALL AND 2 HR WHEN INSTALLED IN A 2 HR FIRE RATED WALL.
2. PIPE HANGER INSTALLATION SHALL BE IN ACCORDANCE REQUIREMENTS PER U.L. LISTING OR APPROVED EQUAL.
3. REFER TO ARCHITECTURAL SHEETS FOR LOCATION OF ALL FIRE-RATED WALLS.

PIPING THRU RATED WALL

SCALE NONE 3

NOT USED

SCALE NONE 10



NOTE:
INTERLOCK EF-1 WITH FC-1-1
INTERLOCK BF-1 WITH FC-1-7

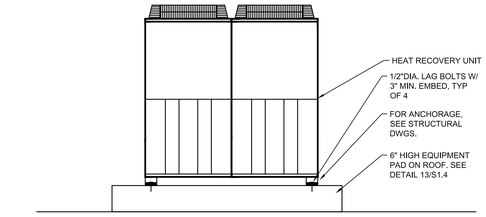
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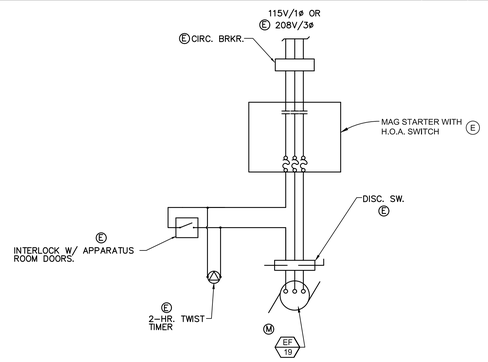
SUPPLY / EXHAUST FAN WIRING DIAGRAM

SCALE NONE 6



VRF HRU ANCHORAGE DETAIL

SCALE NONE 2



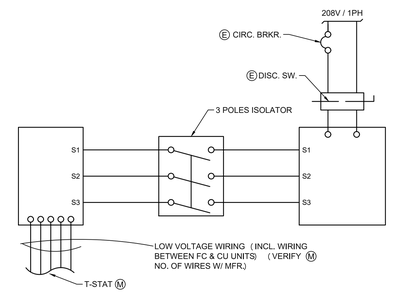
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M PROVIDED BY MECH.

APPARATUS BAY EXHAUST FAN WIRING DIAGRAM

SCALE NONE 9



NOTE: INSTALL PER MANUFACTURER'S GUIDELINES.

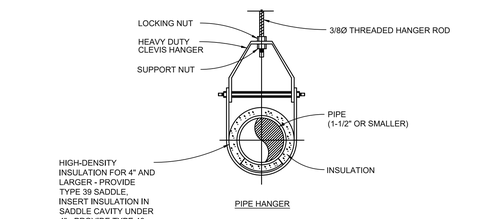
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M PROVIDED BY MECH.

SPLIT SYSTEM AC UNIT WIRING DIAGRAM

SCALE NONE 5



PIPE HANGER

PIPING ANCHORAGE DETAIL

SCALE NONE 1

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MECHANICAL DETAILS

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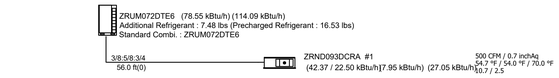
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HRU-3 PIPING DIAGRAM

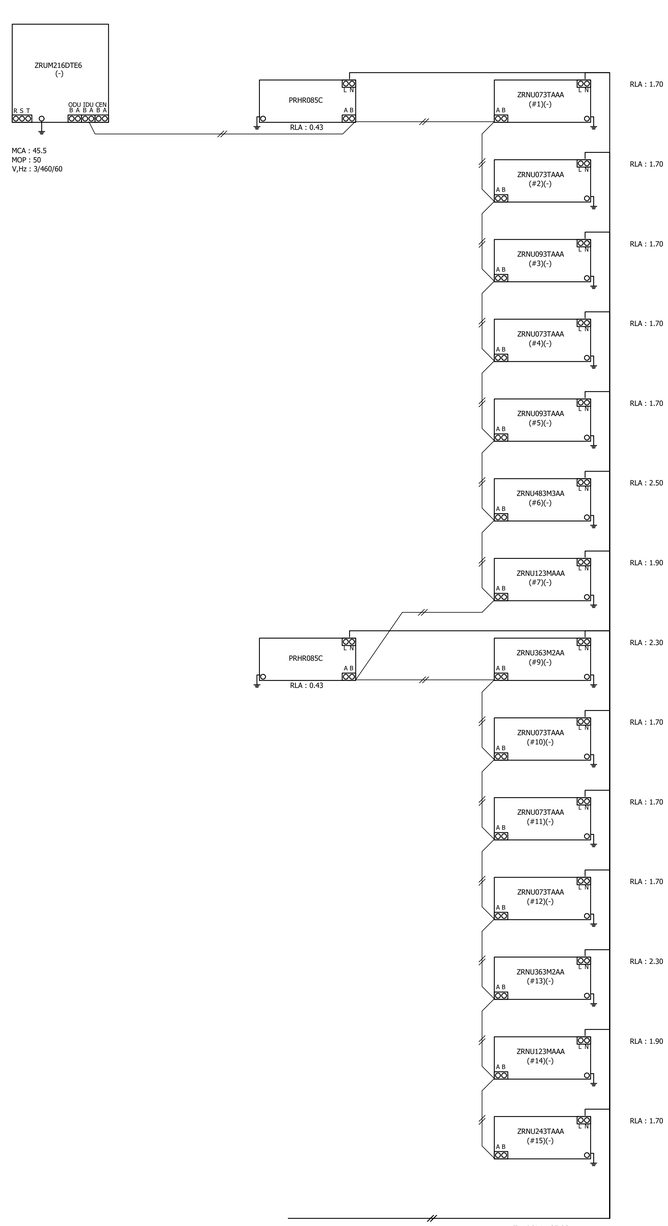
SCALE NONE | 6



HRU-2 PIPING DIAGRAM

SCALE NONE | 4

Note :
Power wiring, breaker size, and disconnects should follow local code and NEC.
Multi-frame outdoor units require a separate power connection for each frame.
Refer to the most up-to-date submittal sheets for applicable electrical data.
.



HRU-1 WIRING DIAGRAM

SCALE NONE | 1

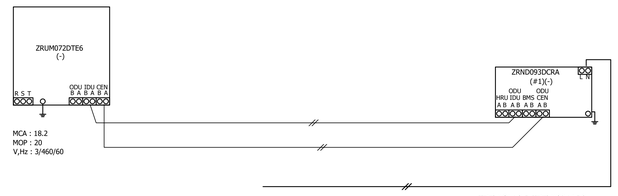
HRU-3 WIRING DIAGRAM

SCALE NONE | 5

HRU-1 PIPING DIAGRAM

SCALE NONE | 2

Note :
Power wiring, breaker size, and disconnects should follow local code and NEC.
Multi-frame outdoor units require a separate power connection for each frame.
Refer to the most up-to-date submittal sheets for applicable electrical data.
.



HRU-3 WIRING DIAGRAM

SCALE NONE | 5

1/30/2025 4:24:54 PM

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DRAWN BY: KF/OS CHKED BY: AD

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MECHANICAL DETAILS

M5.3

BUILDING ENERGY ANALYSIS REPORT

PROJECT:

Coastside Fire Station #44
502 Stetson Street
Moss Beach, CA 94038

Project Designer:

,

Report Prepared by:

,

Job Number:

Date:

2/6/2025

The EnergyPro computer program has been used to perform the calculations summarized in this compliance report. This program has approval and is authorized by the California Energy Commission for use with both the Residential and Nonresidential 2022 Building Energy Efficiency Standards.

This program developed by EnergySoft, LLC – www.energysoft.com.

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 1 of 19)**

Project Name: Coastside FS 44 — **Date Prepared:** 2025-02-06

A. General Information

1	Project Name	Coastside FS 44		
2	Run Title	Title 24 Analysis		
3	Project Location	502 Stetson Street		
4	City	Moss Beach	5	Standards Version — Compliance 2022
6	Zip code	94038	7	Compliance Software (version) — EnergyPro 9.3
8	Climate Zone	3	9	Building Orientation (deg) — 0
10	Building Type(s)	• Nonresidential	11	Weather File — HAYWARD_STYP20.epw
12	Project Scope	• New envelope and mechanical	13	Number of Dwelling Units — 0
14	Total Conditioned Floor Area in Scope (ft²)	4245	15	Total # of hotel/motel rooms — 0
16	Total Unconditioned Floor Area (ft²)	100	17	Fuel Type — Natural gas
18	Nonresidential Conditioned Floor Area	4245	19	Total # of Stories (Habitable Above Grade) — 1
20	Residential Conditioned Floor Area	0		

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 2 of 19)**

B. PROJECT SUMMARY

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 the permit application.

Building Components Complying via Performance						Building Components Complying Prescriptively	
Envelope (See Table G)	Nonres	Performance	Solar Thermal Water Heating (See Table I3)	☐	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).	
	MultiFam	Not Included		☒	Not Included		
Mechanical (See Table H)	Nonres	Performance	Covered Process: Commercial Kitchens (see Table J)	☐	Performance	Indoor Lighting (Unconditioned) 140.6 & 170.2(e)	NRCC-LTI-E is required
	MultiFam	Not Included		☒	Not Included	Outdoor Lighting 140.7 & 170.2(e)	NRCC-LTD-E is required
Domestic Hot Water (See Table I)	Nonres	Not Included	Covered Process: Laboratory Exhaust (see Table J)	☐	Performance	Sign Lighting 140.8 & 170.2(e)	NRCC-LTS-E is required
	MultiFam	Not Included		☒	Not Included	**Building Components Complying with Mandatory Measures**	
Lighting (Indoor Conditioned, see Table K)	Nonres	Not Included	Photovoltaics (see Table F)	☐	Performance	Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should be documented on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)	
	MultiFam	Not Included		☒	Not Included	Electrical Power Distribution 110.11	NRCC-ELC-E is required
			Battery (see Table F)	☐	Performance	Commissioning 120.8	NRCC-CXR-E is required
				☒	Not Included	Solar and Battery 110.10	NRCC-SAB-E is required

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 3 of 19)**

C1. COMPLIANCE SUMMARY

	COMPLIES[1]		
	Time Dependent Valuation (TDV)		Source Energy Use
	Efficiency[1] (kBtu/ft² - yr)	Total[2] (kBtu/ft² - yr)	Total[2] (kBtu/ft² - yr)
Standard Design	198.95	198.95	19.11
Proposed Design	144.11	144.11	14.77
Compliance Margins	**54.84**	**54.84**	**4.34**
	Pass	**Pass**	**Pass**

[1] *Efficiency measures include improvements like a better building envelope and more efficient equipment*
[2] *Compliance Totals include efficiency, photovoltaics and batteries*
[3] *New Construction, Complete Addition Scope: Building complies when all efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded*
Existing, Addition and Alteration Scope: Building complies when efficiency compliance margin is greater than or equal to zero and unmet load hour limits are not exceeded

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 4 of 19)**

C2. TDV ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft² - yr)

	COMPLIES[2]		
Energy Component	**Standard Design (TDV)**	**Proposed Design (TDV)**	**Compliance Margin (TDV)[1]**
Space Heating	15.39	30.05	-14.66
Space Cooling	37.73	29.81	7.92
Indoor Fans	103.37	41.79	61.58
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	12.3	12.3	0
Indoor Lighting	30.16	30.16	0
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**198.95**	**144.11**	**54.84 (27.6%)**
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	**198.95**	**144.11**	**54.84 (27.6%)**

[1] *Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.*

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 5 of 19)**

C3. TDV ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]

Non-Regulated Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Receptacle	61.04	61.04	---
Process	---	---	---
Other Ltg	0.53	0.53	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**260.52**	**205.68**	**54.84 (21.1%)**

[1] *Notes: This table is not used for Energy Code Compliance.*

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 6 of 19)**

C4. SOURCE ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual SOURCE Energy Use, kBtu/ft² /yr)

	COMPLIES[2]		
Energy Component	**Standard Design (SOURCE)**	**Proposed Design (SOURCE)**	**Compliance Margin (SOURCE)[1]**
Space Heating	2.18	4.34	-2.16
Space Cooling	1.52	1.07	0.45
Indoor Fans	9.88	3.83	6.05
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	3.18	3.18	0
Indoor Lighting	2.35	2.35	0
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**19.11**	**14.77**	**4.34 (22.7%)**
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	**19.11**	**14.77**	**4.34 (22.7%)**

[1] *Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.*

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 7 of 19)**

C5. SOURCE ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]

Non-Regulated Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE)[1]
Receptacle	4.51	4.51	---
Process	---	---	---
Other Ltg	0.04	0.04	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**23.66**	**19.32**	**4.34 (18.3%)**

[1] *Notes: This table is not used for Energy Code Compliance.*

C6. 'ABOVE CODE' QUALIFICATIONS

☐ This project is pursuing CalGreen Tier 1 ☐ This project is pursuing CalGreen Tier 2

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 8 of 19)**

C7. 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	2.2	4.2	-2	---	---	---
Space Cooling	4.8	3.7	1.1	---	---	---
Indoor Fans	15.3	6	9.3	---	---	---
Heat Rejection	---	---	---	---	---	---
Pumps & Misc.	---	---	---	---	---	---
Domestic Hot Water	0.8	0.8	0	12.5	12.5	0
Indoor Lighting	5.2	5.2	0	---	---	---
Flexibility	---	---	---	---	---	---
EFFICIENCY TOTAL	**28.3**	**19.9**	**8.4**	**12.5**	**12.5**	**0**
Photovoltaics	---	---	---	---	---	---
Batteries	---	---	---	---	---	---
ENERGY USE SUBTOTAL	**28.3**	**19.9**	**8.4**	**12.5**	**12.5**	**0**
Receptacle	10.9	10.9	0	---	---	---
Process	---	---	---	---	---	---
Other Ltg	0.1	0.1	0	---	---	---
Process Motors	---	---	---	---	---	---
ENERGY USE TOTAL	**39.3**	**30.9**	**8.4**	**12.5**	**12.5**	**0**

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 9 of 19)**

C8. ENERGY USE INTENSITY (EUI)

	Standard Design (kBtu/ft² / yr)	Proposed Design (kBtu/ft² / yr)	Margin (kBtu/ft² / yr)	Margin Percentage
GROSS EUI[1]	33.74	27.14	6.6	19.56
NET EUI[1]	33.74	27.14	6.6	19.56

[1] *Notes: Gross EUI is Energy Use Total (not including PV)/Total Building Area. Net EUI is Energy Use Total (including PV)/Total Building Area.*

D1. EXCEPTIONAL CONDITIONS

• The 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.
• The building does not include service water heating. Verify that service water heating is not required and is not included in the design.
• The user model includes space(s) that are designed to be served by mechanical cooling systems, but the cooling systems were not included in the simulation model. A cooling system has been modeled for both the proposed and standard cases.
• The user model includes space(s) without sufficient cooling equipment. Cooling equipment has been added to the model to meet cooling loads.
• Project is claiming Exception 2 to Section 140.10(a): No PV system is required where the required PV system size is less than 4 kWdc.
• PV/Battery Building Type has been modified from software defaults for one or more spaces. Review project's PV/Battery Building Type(s) with documentation author. Refer to Energy Code section 140.10 for Nonresidential or 170.2(gi) for more information.

G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

01	02	03	04
Opaque Surfaces & Orientation	**Total Gross Surface Area (ft²)**	**Total Fenestration Area (ft²)**	**Window to Wall Ratio (%)**
North-Facing[1]	1125	227	20.18
East-Facing[2]	200	18	9

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 west (NW), but excluding 45 00'00" south of west (SW),*

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 10 of 19)**

G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

01	02	03	04
Opaque Surfaces & Orientation	**Total Gross Surface Area (ft²)**	**Total Fenestration Area (ft²)**	**Window to Wall Ratio (%)**
South-Facing[3]	680	142	20.88
West-Facing[4]	905	210	23.2
Total	**2910**	**597**	**20.52**
Roof	2185	0	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 west (NW), but excluding 45 00'00" south of west (SW),*

G4. NONRESIDENTIAL AIR BARRIER

01	02
Building Story Name	**Air Barrier**
Com-Floor 1	No air barrier

1/30/2025 4:24:54 PM

Not for permitting or construction

PBK

ARCHITECT PBK Architects, Inc.
PBK.com
SAN LUIS OBISPO
1327 Archer Street, Suite 110
San Luis Obispo, CA 93401
805-529-3076

PDS
PocockDesignSolutions Inc.

FIRE STATION #44
COASTSIDE FIRE PROTECTION DISTRICT
501 STETSON STREET
MOSS BEACH, CA 94038
BID SET

BID SET

KEY PLAN
PLAN NORTH
TRUE NORTH

REGISTERED PROFESSIONAL ENGINEER
ANDREW R. GOODMAN
No. M29639
Exp. 3/31/26
MECHANICAL
STATE OF CALIFORNIA

CLIENT
COASTSIDE FIRE PROTECTION DISTRICT
PROJECT NUMBER
230137
DATE 3/13/2026
DRAWN BY: KF/OS CHKED BY: AD

REVISIONS

#	DESCRIPTION	DATE
1	PLANCHECK #1 RESPONSE	12/1/25
2	PLANCHECK #2 RESPONSE	02/13/26
B	NON-PC REVISION	03/13/26
3	PLANCHECK #3 RESPONSE	05/22/2026
4	PLANCHECK #4 RESPONSE	07/24/2026
6	ACCENDUM #6	10/23/2026

This document is for plan review only

TITLE 24 COMPLIANCE FORMS

M5.4

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — NRCC-PRF-E

Nonresidential Performance Compliance Method — (Page 11 of 19)

GS. OPAQUE SURFACE ASSEMBLY SUMMARY

01	02	03	04	05	06		07	08	09	10
Surface Name	Construction Type	Area (ft²)	Framing Type	Cavity R-Value	Continuous R-Value		Units	Value	Description of Assembly Layers	Status[1]
					Interior	Exterior				
Shear Wall7	Exterior Wall	250	N/A	0	N/A	13.93	U-factor	0.0606	Gypsum Board - 5/8 in. Concrete - 140 lb/ft3 - 8 in. Cellular polyisocyanurate (unfaced) - 1/2 in, R2.9 Gypsum Board - 5/8 in. Glass fiber batt - 3 1/2 in, R11 (CEC Default)	N
R-19 Wall10	Exterior Wall	2,640	Wood	19	N/A	N/A	U-factor	0.0723	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Composite-1 Gypsum Board - 1/2 in.	N
Slab On Grade14	Underground Floor	2,260	N/A	0	N/A	N/A	F-factor	0.73	Slab Type =Unheated slab on grade Insulation Orientation =None Insulation R-Value =none	N
R-13 Wall22	Interior Wall	600	Wood	11	N/A	2.93	U-factor	0.0765	Stucco - 7/8 in. Cellular polyisocyanurate (unfaced) - 1/2 in, R2.9 Vapor permeable felt - 1/8 in. Composite-2 Gypsum Board - 1/2 in.	N
R-11 Floor No Crawlspace57	Exterior Floor	2,085	Wood	11	N/A	N/A	U-factor	0.0701	Composite-3 Plywood - 1/2 in. Carpet - 3/4 in.	N
R-19 Metal Roof No Attic59	Roof	2,085	N/A	19	N/A	N/A	U-factor	0.082	Metal Standing Seam - 1/16 in. Composite-4	N

[1] *Status: N - New, A - Altered, E - Existing*

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — NRCC-PRF-E

Nonresidential Performance Compliance Method — (Page 12 of 19)

GS. OPAQUE SURFACE ASSEMBLY SUMMARY

01	02	03	04	05	06		07	08	09	10
Surface Name	Construction Type	Area (ft²)	Framing Type	Cavity R-Value	Continuous R-Value		Units	Value	Description of Assembly Layers	Status[1]
					Interior	Exterior				
R-30 Roof No Attic91	Roof	200	Wood	30	N/A	N/A	U-factor	0.034	AsphaltShingles0_25in Vapor permeable felt - 1/8 in. Plywood - 1/2 in. Air - Cavity - Wall Roof Ceiling - 4 in. or more Composite-5 Gypsum Board - 1/2 in.	N
R-13 Wall221	Exterior Wall	220	Wood	11	N/A	2.93	U-factor	0.08	Stucco - 7/8 in. Cellular polyisocyanurate (unfaced) - 1/2 in, R2.9 Vapor permeable felt - 1/8 in. Composite-2 Gypsum Board - 1/2 in.	N

[1] *Status: N - New, A - Altered, E - Existing*

G7A. FENESTRATION ASSEMBLY SUMMARY (NONRESIDENTIAL)

01	02	03	04	05	06	07	08	09
Fenestration Assembly Name	Fenestration Type/ Product Type / Frame Type	Certification Method[1]	Assembly Method	Area (ft²)	Overall U-factor	Overall SHGC	Overall VT	Status[2]
Residential Cooling	Vertical fenestration Fixed window N/A	NFRC	Manufactured	597	0.35	0.25	0.5	N

[1] *Notes: 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*

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — NRCC-PRF-E

Nonresidential Performance Compliance Method — (Page 13 of 19)

H1. DRY SYSTEM EQUIPMENT (FURNACES, AIR HANDLING UNITS, HEAT PUMPS, VRF, ECONOMIZERS ETC.)

01	02	03	04	05	06	07	08	09	10	11	12
Equipment Name	Equipment Type	Qty	Heating				Cooling			Economizer Type (if present)	Status[1]
			Total Heating Output (kBtu/h)	Supp Heat Output (kBtu/h)	Efficiency Unit	Efficiency	Total Cooling Output (kBtu/h)	Efficiency Unit	Efficiency		
HRU-1	Variable Refrigerant Flow	1	243	N/A	COP	4.2	216	EER	15	N/A	N
HRU-2	Variable Refrigerant Flow	1	108	N/A	COP	4.2	96	EER	15	N/A	N

[1] *Status: N - New, A - Altered, E - Existing*

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — NRCC-PRF-E

Nonresidential Performance Compliance Method — (Page 14 of 19)

H3. NONRESIDENTIAL / COMMON USE AREA FAN SYSTEMS SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12	13
Name or Item Tag	Qty	Design OA CFM	Supply Fan				Return / Relief Fan					Status[1]
			CFM	Power	Power Units	Control	Fan Type	CFM	Power	Power Units	Control	
2-FC/1-1-VRF	1	76.5	1,050	0.21	BHP	VSD	N/A	N/A	N/A	N/A	N/A	N
3-FC/1-2-VRF	1	15	265	0.01	BHP	VSD	N/A	N/A	N/A	N/A	N/A	N
4-FC/1-3-VRF	1	15	265	0.01	BHP	VSD	N/A	N/A	N/A	N/A	N/A	N
5-FC/1-4-VRF	1	15	265	0.01	BHP	VSD	N/A	N/A	N/A	N/A	N/A	N
6-FC/1-5-VRF	1	67.5	400	0.16	BHP	VSD	N/A	N/A	N/A	N/A	N/A	N
7-FC/1-6-VRF	1	190	1,050	0.21	BHP	VSD	N/A	N/A	N/A	N/A	N/A	N
8-FC/1-7-VRF	1	240	810	0.1	BHP	VSD	N/A	N/A	N/A	N/A	N/A	N
9-FC/2-1-VRF	1	18	265	0.01	BHP	VSD	N/A	N/A	N/A	N/A	N/A	N
10-FC/2-2-VRF	1	18	265	0.01	BHP	VSD	N/A	N/A	N/A	N/A	N/A	N
11-FC/2-3-VRF	1	29.25	285	0.02	BHP	VSD	N/A	N/A	N/A	N/A	N/A	N
12-FC/2-4-VRF	1	18	265	0.01	BHP	VSD	N/A	N/A	N/A	N/A	N/A	N
13-FC/2-5-VRF	1	16.5	285	0.02	BHP	VSD	N/A	N/A	N/A	N/A	N/A	N
14-FC/2-6-VRF	1	78	400	0.16	BHP	VSD	N/A	N/A	N/A	N/A	N/A	N
15-FC/2-7-VRF	1	135	1,500	0.2	BHP	VSD	N/A	N/A	N/A	N/A	N/A	N
16-First Flr OSA-VRF	1	0	500	0.21	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N

[1] *Status: N - New, A - Altered, E - Existing*

H5. GENERAL EXHAUST FAN SUMMARY

01	02	03	04	05	06	07	08
System ID	Zone Name	Qty	CFM	Power	Power Units	Continuous Operation?	Status[1]
FC/1-11-EF	1-FC/1-1	1	200	0.05	BHP	No	N
FC/1-749-EF	7-FC/1-7	1	300	0.1	BHP	No	N

[1] *Status: N - New, A - Altered, E - Existing*

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — NRCC-PRF-E

Nonresidential Performance Compliance Method — (Page 15 of 19)

H8. SYSTEM SPECIAL FEATURES

01	02	03	04
System Name	Equipment Type	Interlocks per 140.4(e)[1]	Other Special Features and Controls
HRU-1	Variable Refrigerant Flow	N/A	Heat Recovery
HRU-2	Variable Refrigerant Flow	N/A	Heat Recovery

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.

[1] *Yes = interlocks are provided, No = interlocks are not provided, NA means no operable openings.*

H9. NONRESIDENTIAL / COMMON USE AREA & HOTEL/MOTEL VENTILATION

01	02	03	04	05	06	07
Zone Name	Mechanical Ventilation				Conditioned Area (sf)	DCV or Occupant Sensor Controls, or Both
	Ventilation Function	# of People	Supply OA CFM	Exhaust CFM		
1-FC/1-1	Sports/Entertainment - Health club/weight rooms	5.1	76.5	200	510	N/A
2-FC/1-2	Office - Office space	0.5	15	0	100	N/A
3-FC/1-3	Office - Office space	0.5	15	0	100	N/A
4-FC/1-4	Misc - Banks or bank lobbies	3.33	15	0	100	N/A
5-FC/1-5	General - Corridors	2.25	67.5	0	450	N/A
6-FC/1-6	Education - Lecture/postsecondary classroom	12.5	190	0	500	N/A
7-FC/1-7	Exhaust - All other locker rooms	3	240	300	300	N/A
8-FC/2-1	Office - Office space	0.6	18	0	120	N/A
9-FC/2-2	Office - Office space	0.6	18	0	120	N/A
10-FC/2-3	Office - Office space	0.97	29.25	0	195	N/A

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — NRCC-PRF-E

Nonresidential Performance Compliance Method — (Page 16 of 19)

H9. NONRESIDENTIAL / COMMON USE AREA & HOTEL/MOTEL VENTILATION

01	02	03	04	05	06	07
Zone Name	Mechanical Ventilation				Conditioned Area (sf)	DCV or Occupant Sensor Controls, or Both
	Ventilation Function	# of People	Supply OA CFM	Exhaust CFM		
11-FC/2-4	Office - Office space	0.6	18	0	120	N/A
12-FC/2-5	Office - Office space	0.55	16.5	0	110	N/A
13-FC/2-6	General - Corridors	2.6	78	0	520	N/A
14-FC/2-7	Office - Office space	4.5	135	0	900	N/A
15-First Flr OSA	General - Unoccupied	0.5	0	0	100	N/A

H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12
System ID	System Type	Qty	Rated Capacity (kBtu/h)		Airflow (cfm)			Fan			VSD
			Heating	Cooling	Design	Min.	Min. Ratio	Power	Power Units	Cycles	
2-FC/1-1-VRF	Variable Refrigerant Flow	1	40.6	36.2	1,050	200	0.19	0.21	BHP	Continuous	☒
3-FC/1-2-VRF	Variable Refrigerant Flow	1	8.5	7.5	265	20	0.08	0.01	BHP	Continuous	☒
4-FC/1-3-VRF	Variable Refrigerant Flow	1	8.5	7.5	265	20	0.08	0.01	BHP	Continuous	☒
5-FC/1-4-VRF	Variable Refrigerant Flow	1	8.5	7.5	265	20	0.08	0.01	BHP	Continuous	☒
6-FC/1-5-VRF	Variable Refrigerant Flow	1	13.6	12.3	400	75	0.19	0.16	BHP	Continuous	☒
7-FC/1-6-VRF	Variable Refrigerant Flow	1	40.6	36.2	1,050	200	0.19	0.21	BHP	Continuous	☒
8-FC/1-7-VRF	Variable Refrigerant Flow	1	25.6	24.3	810	50	0.06	0.1	BHP	Continuous	☒
9-FC/2-1-VRF	Variable Refrigerant Flow	1	8.5	7.5	265	20	0.08	0.01	BHP	Continuous	☒
10-FC/2-2-VRF	Variable Refrigerant Flow	1	8.5	7.5	265	20	0.08	0.01	BHP	Continuous	☒
11-FC/2-3-VRF	Variable Refrigerant Flow	1	10.9	9.6	285	20	0.07	0.02	BHP	Continuous	☒
12-FC/2-4-VRF	Variable Refrigerant Flow	1	8.5	7.5	265	20	0.08	0.01	BHP	Continuous	☒
13-FC/2-5-VRF	Variable Refrigerant Flow	1	10.9	9.6	285	20	0.07	0.02	BHP	Continuous	☒
14-FC/2-6-VRF	Variable Refrigerant Flow	1	13.6	12.3	400	75	0.19	0.16	BHP	Continuous	☒
15-FC/2-7-VRF	Variable Refrigerant Flow	1	52.2	48.1	1,500	175	0.12	0.2	BHP	Continuous	☒

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — NRCC-PRF-E

Nonresidential Performance Compliance Method — (Page 17 of 19)

H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12
System ID	System Type	Qty	Rated Capacity (kBtu/h)		Airflow (cfm)			Fan			VSD
			Heating	Cooling	Design	Min.	Min. Ratio	Power	Power Units	Cycles	
16-First Flr OSA-VRF	Variable Refrigerant Flow	1	39	24	500	N/A	N/A	0.21	BHP	Continuous	☐
PropNoCtg-NonResZnSys	Single Zone Air Conditioner	1	0	4.24	132.5	N/A	N/A	0	W/cfm	Cycling	☐
PropNoCtg-NonResZnSys-2	Single Zone Air Conditioner	1	0	13.43	436.38	N/A	N/A	0	W/cfm	Cycling	☐
PropNoCtg-NonResZnSys-3	Single Zone Air Conditioner	1	0	3.47	113.23	N/A	N/A	0	W/cfm	Cycling	☐
PropNoCtg-NonResZnSys-4	Single Zone Air Conditioner	1	0	3.91	127.63	N/A	N/A	0	W/cfm	Cycling	☐
PropNoCtg-NonResZnSys-5	Single Zone Air Conditioner	1	0	7.04	229.56	N/A	N/A	0	W/cfm	Cycling	☐
PropNoCtg-NonResZnSys-6	Single Zone Air Conditioner	1	0	3.47	113.24	N/A	N/A	0	W/cfm	Cycling	☐
PropNoCtg-NonResZnSys-7	Single Zone Air Conditioner	1	0	6.51	212.43	N/A	N/A	0	W/cfm	Cycling	☐
PropNoCtg-NonResZnSys-8	Single Zone Air Conditioner	1	0	34.18	1,115.03	N/A	N/A	0	W/cfm	Cycling	☐

L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections made by Documentation Author indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online

Building Component	Form/Title
Envelope	NRCI-ENV-01-E - Must be submitted for all buildings
Envelope	NRCI-ENV-E - Envelope (for all buildings)
Mechanical	NRCI-MCH-01-E - Must be submitted for all buildings
Mechanical	NRCI-MCH-E - For all buildings with Mechanical Systems

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections made by Documentation Author 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).

Building Component	Form/Title & System Name(s)
Envelope	NRCA-ENV-02-F - NRFC label verification for fenestration

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — NRCC-PRF-E

Nonresidential Performance Compliance Method — (Page 18 of 19)

N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

Selections made by Documentation Author indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online

There are no Certificates of Verification applicable to this project

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — NRCC-PRF-E

Nonresidential Performance Compliance Method — (Page 19 of 19)

Documentation Author's Declaration Statement

I. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Andrew Gossman	Documentation Author Signature: Andrew Gossman
Company: Pocock Design Solutions	Signature Date:
Address: 14451 Chambers Road, Suite 210	CEA/HERS Certification Identification (if applicable):
City/State/Zip: , Tustin, CA 92780	Phone: 949-417-3903

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 understand that a registered 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, and I will take the necessary steps to accomplish this requirement.
6. I understand that a registered copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy, and I will take the necessary steps to accomplish these requirements.

Responsible Designer Name: Andrew Gossman	Responsible Designer Signature: Andrew Gossman
Company: Pocock Design Solutions	
Address: 14451 Chambers Road, Suite 210	Date Signed: 2/7/2025
City/State/Zip: Tustin, CA 92780	License #: M35839
Phone: 949-417-3903	Title: Scope:

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Not for permitting or construction

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PDS
PocockDesignSolutions Inc.

FIRE STATION #44
COASTSIDE FIRE PROTECTION DISTRICT

501 STETSON STREET
MOSS BEACH, CA 94038

BID SET

KEY PLAN

PLAN NORTH | TRUE NORTH

REGISTERED PROFESSIONAL ENGINEER
ANDREW R. GOSSMAN
No. M35839
Exp. 3/31/26
MECHANICAL
STATE OF CALIFORNIA

CLIENT
COASTSIDE FIRE PROTECTION DISTRICT

PROJECT NUMBER
230137

DATE 3/13/2026

DRAWN BY: KF/OS CHKED BY: AD

REVISIONS

#	DESCRIPTION	DATE
1	PLANCHECK #1 RESPONSE	12/11/25
2	PLANCHECK #2 RESPONSE	02/13/26
B	NON-PC REVISION	03/13/26
3	PLANCHECK #3 RESPONSE	05/22/2026
4	PLANCHECK #4 RESPONSE	07/24/2026
5	ADDENDUM #6	10/23/2026

This document is for plan review only

TITLE 24 COMPLIANCE FORMS

M5.5

GAS WATER HEATER SCHEDULE

ITEM	MANUFACTURER	MODEL NO.	SERVICE	LOCATION	STORAGE	INPUT BTU/HR	RECOVERY CAPACITY @ 60°F	INLET TEMP °F	OUTLET TEMPER °F	OPER. WT. LBS.	REMARKS
WH 1	A.O. SMITH	BTH-150	DOMESTIC HOT WATER	SEE PLANS	100 GALLONS	150,000	297 GPH	60	120	1387 LBS.	MUST HAVE ASHRAE STICKER OR OTHERWISE COMPLY WITH TITLE 24 REQUIREMENT FOR SERVICE WATER HEATERS.

PUMP SCHEDULE

ITEM	MANUFACTURER	MODEL NO.	SERVICE	LOCATION	STORAGE	CAPACITY		MOTOR					REMARKS
						GPM	HEAD	HORSE POWER	VOLT	PHASE	CYCLE	R.P.M.	
CP 1	GRUNDFOS	"UP" SERIES	HOT WATER RETURN	SEE PLANS	CENTRIFUGAL	2	8	1/25	115	1	60	1750	PROVIDED WITH BUILT-IN OVERLOAD.

GENERAL NOTES

1. BEFORE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, ELEVATIONS AND CHARACTERISTICS OF ALL UTILITIES AND PIPING, AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
2. ALL ACCESSIBLE WATER CLOSETS SHALL HAVE FLUSH VALVE WITH HANDLE ON OPEN SIDE.
3. ALL VALVES, UNIONS, ETC. TO BE SAME SIZE AS PIPE UNLESS OTHERWISE INDICATED ON DRAWINGS.
4. ALL PLUMBING FIXTURE VENTS TO TERMINATE A MINIMUM OF 12 INCHES FROM ANY VERTICAL SURFACE AND 10 FEET FROM ANY OUTSIDE AIR INTAKES.
5. EXACT LOCATIONS AND MOUNTING HEIGHTS OF PLUMBING FIXTURES SHALL BE OBTAINED FROM THE ARCHITECTURAL DRAWINGS.
6. ALL EXTERIOR GAS COCKS, WATER SHUT OFF VALVES AND/OR SEWER CLEANOUTS BELOW GROUND SHALL BE INSTALLED IN YARD BOXES WITH THE COVERS CONSPICUOUSLY MARKED "GAS", "WATER", AND "SEWER" RESPECTIVELY.
7. CONNECTION BETWEEN INCOMPATIBLE MATERIALS ABOVE GRADE AND INSIDE BUILDING SHALL BE MADE WITH TWO (2) DIELECTRIC UNIONS SEPARATED BY A TWELVE INCH (12") SECTION OF RED BRASS PIPE.
8. ALL CLEANOUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE. ALL URINALS SHALL HAVE CLEANOUTS ABOVE FIXTURE, CPC 707.4. THE CONTRACTOR SHALL COORDINATE ALL CLEANOUT LOCATIONS WITH EQUIPMENT, CABINETS, ETC., AND THE ARCHITECT PRIOR TO ANY INSTALLATION.
9. ALL URINALS SHALL HAVE CLEANOUTS ABOVE FIXTURE, PER CPC 707.4. THE CONTRACTOR SHALL COORDINATE ALL CLEANOUT LOCATIONS WITH THE ARCHITECT PRIOR TO ANY INSTALLATION.
10. CORROSION PROTECTION SHALL BE PROVIDED FOR ALL BELOW GRADE CAST IRON AND COPPER PIPING AND ASSOCIATED VALVES AND FITTINGS. SUCH PIPING SHALL BE PROTECTED FROM CORROSION BY ENCASEMENT IN A POLYETHYLENE PROTECTIVE WRAPPING, REFERRED TO HEREAFTER AS POLYWRAP. ALTHOUGH NOT INTENDED TO BE A COMPLETELY AIR AND WATER TIGHT ENCLOSURE, THE POLYWRAP SHALL PROVIDE A CONTINUOUS BARRIER BETWEEN THE PIPE AND SURROUNDING BEDDING AND BACKFILL. SEE SPECS 221316 SECTION 2.4 CORROSION PROTECTION.
11. SEE ARCHITECTURAL DRAWINGS FOR ACCESSIBLE FIXTURE LOCATIONS AND MOUNTING HEIGHTS. INSULATE ALL EXPOSED HOT WATER AND DRAIN PIPING BELOW ACCESSIBLE LAVATORIES AND SINKS.
12. ALL PLUMBING WORK SHALL BE INSTALLED SO AS TO AVOID INTERFERENCE WITH ELECTRICAL AND MECHANICAL EQUIPMENT AND STRUCTURAL FRAMING.
13. ALL WORK AND MATERIAL SHALL BE PERFORMED AND INSTALLED IN COMPLIANCE WITH CALIFORNIA PLUMBING CODE 2022.
14. THESE DRAWINGS INDICATE THE SEWER, WATER, AND STORM DRAIN SYSTEMS TO POINT OF CONNECTION 5'-0" OUTSIDE OF THE BUILDING. CONTINUATION OF THESE SYSTEMS IS SHOWN ON THE CIVIL DRAWINGS AND IS SPECIFIED UNDER ANOTHER SECTION OF THE SPECIFICATIONS. THE PIPING SHALL BE INSTALLED TO MEET THE INVERT ELEVATIONS SHOWN ON THE CIVIL DRAWINGS.
15. INSULATION (SEE SPECIFICATION FOR TYPE REQUIRED) AND COVERING ON PIPE AND TUBING SHALL HAVE A FLAME SPREAD RATING NOT TO EXCEED 25 AND A SMOKE DENSITY NOT TO EXCEED 450 WHEN TESTED IN ACCORDANCE WITH 2022 C.B.C. SECTION 720.3.
16. MATERIALS EXPOSED WITHIN DUCTS OR PLENUMS SHALL HAVE A FLAME-SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHERE TESTED IN ACCORDANCE WITH ASTM E84 OR UL 723. CMC 2022, CHAPTERS 7, 9 ,& 11.
17. THE BUILDING SHALL BE PROVIDED WITH AN AUTOMATIC SPRINKLER SYSTEM PER C.B.C. CHAPTER 9 SECTION 903 & NFPA 13, ALL LOCAL CODES, AND INSURANCE UNDERWRITERS REQUIREMENTS. THE FIRE SPRINKLER CONTRACTOR SHALL SUBMIT AN APPROVED AND STAMPED SET OF DRAWINGS SHOWING ALL SIZES AND LOCATIONS OF FIRE SPRINKLER RISER, PIPING, DETECTOR CHECK VALVE AND ANY OTHER EQUIPMENT REQUIRED. IN ADDITION, SUBMITTAL SHALL BE MADE FOR ALL MATERIAL AND EQUIPMENT.
18. PROVIDE A WATER HAMMER ARRESTOR FOR FLUSH VALVE PER 2022 CPC 609.10.
19. ALL EQUIPMENT SHALL BE LATERALLY SUPPORTED IN ALL DIRECTIONS TO RESIST A MIN. OF 20% OF THE EQUIPMENT'S OPERATING WEIGHT.
20. ALL SIZING FOR WASTE, VENTS, WATER AND GAS SHALL BE IN COMPLIANCE WITH TABLES IN THE CALIFORNIA PLUMBING CODE 2022.

WATER CALCULATION

STREET PRESSURE: STATIC = 75 PSI
RESIDUAL = 60 PSI
TOTAL DEMAND FOR BUILDING: 84.5 FIXTURE UNITS = 64 GPM
RESIDUAL PRESSURE (FLUSH VALVE WATER CLOSET) = 30 PSI
STATIC HEIGHT 17' X .433 = 7.36 PSI
2" BACKFLOW PREVENTER = 13 PSI
2" WATER METER = 1.7 PSI
SUB TOTAL = 52 PSI

RESIDUAL = 60 PSI
SUB TOTAL = 52 PSI
TOTAL = 8 PSI

AVAILABLE FOR LINE LOSS = 8 PSI
ALLOWABLE FRICTION LOSS PER 100 FEET OF PIPE
DEVELOPMENT LENGTH = 250 FEET
EQUIVALENT LENGTH = 325 FEET (30 % FOR FITTINGS)
8.0 PSI X 100 = 2.5 PSI/100 FEET DESIGN FOR 2.5 PSI
325
DESIGN PIPE SIZES ON 2.5 PSI/100 FEET
AT MAXIMUM VELOCITY 8 FPS

SIZES TABLE

PIPE SIZES	GPM	(FT) F.U.	(FV) F.U.	VELOCITY
1/2"	1.9	0	0	2.6
3/4"	4.9	5	0	3.2
1"	10.0	12	0	3.9
1 1/4"	17.4	22	0	4.4
1 1/2"	27.0	42	8	4.9
2"	56.5	132	51	5.9
2 1/2"	100	331	200	6.7
3"	160	611	521	7.5

SAND INTERCEPTOR CALC.

ESTIMATE WATER USAGE 2 HOSE BIBS @ 3 GPM = 6 GPM

ESTIMATED WATER USAGE PER HOUR = 360 GPH
ESTIMATED HOURS OF USAGE PER DAY = 1 HR
ESTIMATED TOTAL WATER USAGE PER DAY: = 360 GPD
ESTIMATED RETENTION TIME: = 2.5 HRS
ESTIMATED TOTAL WATER USAGE: = 900 GAL
LOSS ALLOWANCE DUE TO EVAPORATION: = 5 %

ESTIMATED SIZE OF INTERCEPTOR = 855 GAL
ACTUAL SIZE OF INTERCEPTOR = 1000 GAL

LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	S OR W	SOIL OR WASTE ABOVE FLOOR
	S OR W	SOIL OR WASTE BELOW FLOOR OR GRADE
CWV	CWV	COMBINATION WASTE & VENT BELOW FLOOR OR GRADE
SD	SD	STORM DRAIN ABOVE FLOOR
SD	SD	STORM DRAIN BELOW FLOOR OR GRADE
OD	OD	OVERFLOW DRAIN ABOVE FLOOR
	V	SANITARY VENT
	CW	COLD WATER
	HW	HOT WATER
	HWR	HOT WATER RETURN
CD	CD	CONDENSATE DRAIN
TP	TP	TRAP PRIMER
G	G	GAS LINE
A	A	COMPRESSED AIR LINE
F	F	FIRE LINE
AS	AS	AUTOMATIC SPRINKLER LINE
DOS	DOS	DIESEL OIL SUPPLY LINE
DOR	DOR	DIESEL OIL RETURN LINE
FW	FW	FILTER WATER
		DIRECTION OF FLOW
	SOV	SHUT-OFF VALVE
	SOV/GC	SHUT-OFF VALVE OR GAS COCK IN YARD BOX
	GC	GAS COCK
	BV	BALANCING VALVE
	FCO	FLOOR CLEANOUT
	WCO	WALL CLEANOUT
		RISER UP
		RISER DOWN
	ABV	ABOVE
	AP	ACCESS PANEL
	BEL	BELOW
	CLG	CEILING
	CONT	CONTINUATION
	COTG	CLEANOUT TO GRADE
	DN	DOWN
	EXIST	EXISTING
	FLR	FLOOR
	FFE	FINISH FLOOR ELEVATION
	I.E.	INVERT ELEVATION
	POC	POINT OF CONNECTION
	PLCS	PLACES
	SLVE	SLEEVE
	VTR	VENT THRU ROOF
	YB	YARD BOX

AIR EQUIPMENT SCHEDULE

ITEM	EQUIPMENT	DESCRIPTION
AC 1	AIR COMPRESSOR	INGERSOLL-RAND MODEL NO. 2475N7.5-P, TWO STAGE RECIPROCATING, MAXIMUM OVERALL DIMENSIONS SHALL BE 76" HIGH X 40" WIDE. THE COMPLETE UNIT SHALL BE BOLTED TO THE FLOOR AND PROVIDED WITH SEISMIC BRACES. AIR COMPRESSOR, 7.5 HP, 200 VOLTS, 3 PHASE, 60 HZ, COMPRESSOR SHALL DELIVERY 24.0 CFM AT 175 PSI. TANK SHALL BE 80 GALLON CAPACITY, VERTICAL TYPE. THE UNIT SHALL HAVE CENTRIFUGAL PRESSURE RELEASE FOR "LOAD FREE" STARTING AND AUTOMATIC SWITCH TO START AND STOP AT PRESET MINIMUM AND MAXIMUM PRESSURE LIMITS. THE UNIT SHALL BE COMPLETE WITH THE FOLLOWING ACCESSORIES MOUNTED ON THE UNIT: COMPLETELY ENCLOSED, CAL OSHA APPROVED BELT GUARD, OIL BATH AIR CLEANER, SAFETY VALVE, CHECK VALVE, AIR OUTLET VALVE, PRESSURE GAUGE, AUTOMATIC DRAIN VALVE W/ POWER CORD & PLUG (120 VOLT, SINGLE PHASE), PRESSURE SWITCH, 208 VOLT, THREE PHASE, 60 HZ, MAGNETIC MOTOR STARTER WITH THREE PHASE OVERLOAD PROTECTION. APPROXIMATE OPERATING WEIGHT = 611 LBS. CONTACT INFORMATION: CURT DAHMEN, AREA MANAGER ARNEL COMPRESSOR COMPANY 114 SUNSET AVE. INDUSTRY, CA 91744 DIRECT: 626.672.6407 FAX: 909.597.7338
QD 1	QUICK DISCONNECT	AMFLO MODEL NO. C10 AND CP9, 1/2" FEMALE NPT, PLATED STEEL COUPLER AND PLUG, WORKING PRESSURE 300 P.S.I. WITH ESCUTCHEON.
HR 1	HOSE REEL	REELCRAFT SERIES DP7000 MODEL NO. DP7850 OLP, COMPLETE WITH ENCLOSED DRIVE SPRING, ADJUSTABLE GUIDE ARM, 50'-0" HOSE W/ MAX. WORKING PRESSURE OF 300 PSI, AND REELCRAFT NO. S601020-2 (1/2") INLET HOSE ASSEMBLY. SEE DRAWINGS FOR LOCATIONS.
HR 2	HOSE REEL	LEONARD MODEL NO. ST-75-ED STAINLESS STEEL MANUAL BLENDER HOSE STATION WITH TEMPERATURE GAUGE AND HOT AND COLD WATERVALVES AND VACUUM BREAKER. SEE DRAWINGS FOR LOCATIONS.

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COASTSIDE FIRE PROTECTION DISTRICT EST 1948
BID SET

KEY PLAN
PLAN NORTH
TRUE NORTH

REGISTERED PROFESSIONAL ENGINEER
ANDREW K. OSSMANN
No. M30639
Exp. 3/31/26
MECHANICAL
STATE OF CALIFORNIA

CLIENT
COASTSIDE FIRE PROTECTION DISTRICT
PROJECT NUMBER
230137
DATE 3/13/2026
DRAWN BY: KF/OS CHKED BY: AD

REVISIONS

#	DESCRIPTION	DATE
1	PLANCHECK #1 RESPONSE	12/11/25
2	PLANCHECK #2 RESPONSE	03/13/26
B	NON-PC REVISION	03/13/26
3	PLANCHECK #3 RESPONSE	05/22/2026
4	PLANCHECK #4 RESPONSE	07/24/2026
6	ADDENDUM #6	10/23/2026

PLUMBING LEGEND, SCHEDULES, AND GENERAL NOTES

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FIXTURE SCHEDULE

ITEM	FIXTURE	ROUGH-IN CONNECTIONS						DESCRIPTION
		TRAP	WASTE	VENT	HOT WATER	COLD WATER	GAS	
WC 1	WATER CLOSET (BAT. I/R SENSOR)	INT	4"	2"	--	1"	--	AMERICAN STANDARD (A/S) NO. 3351.101 "AFWALL MILLENIUM FLOWISE ELONGATED FLUSHOMETER TOILET", SIPHON JET, WALL HUNG, ELONGATED BOWL, TOP SPUD. COMPLETE WITH SLOAN ECOS NO. 8111-1.28 GPF BATTERY POWERED SENSOR OPERATED FLUSH VALVE, OLSONITE NO. 95SSCT SEAT AND ZURN NO. Z1201 & Z1202 SERIES CARRIER.
WC 2	WATER CLOSET (ACCESSIBLE, BAT. I/R SENSOR)	INT	4"	2"	--	1"	--	AMERICAN STANDARD (A/S) NO. 3351.101 "AFWALL MILLENIUM FLOWISE ELONGATED FLUSHOMETER TOILET", SIPHON JET, WALL HUNG, ELONGATED BOWL, TOP SPUD. COMPLETE WITH SLOAN ECOS NO. 8111-1.28 GPF BATTERY POWERED SENSOR OPERATED FLUSH VALVE, OLSONITE NO. 95SSCT SEAT AND ZURN NO. Z1201 & Z1202 SERIES CARRIER, MOUNT AT ADA ACCESSIBLE HEIGHT.
UR 1	URINAL (ACCESSIBLE)	INT	2"	1-1/2"	--	3/4"	--	AMERICAN STANDARD (A/S) NO. 6400.001 "STALLBROOK URINAL", FLOOR MOUNTED, WASHOUT. COMPLETE WITH SLOAN ECOS NO. 8186-0.125 GPF BATTERY POWERED FLUSH VALVE WITH B-STRAINER. INSTALL AT ADA ACCESSIBLE HEIGHT.
L 1	LAVATORY (HW/CW)	1-1/4"	2"	1-1/2"	1/2"	1/2"	--	AMERICAN STANDARD (A/S) NO. 0355.012 "LUCERNE WALL HUNG LAVATORY", 20" X 18", WALL HUNG. COMPLETE WITH GROHE LINEARE NO. 2379400A SINGLE LEVER FAUCET, McGUIRE NO. 155A 1-1/4" OUTLET "OPEN GRID P.O. PLUG", McGUIRE NO. PW8089NCO 1-1/4" L.A. PATTERN P-TRAP WITH TRAP AND SUPPLY COVERS, GALVANIZED NIPPLE AND CHROMIUM PLATED BRASS CASING, CHICAGO NO. 1019-ABCP STOPS WITH WHEEL HANDLE AND RIGID SUPPLIES, AND ZURN NO. Z-1231-EZR-WL ADJUSTABLE CONCEALED ARM CARRIER W/ SLEEVE FOR WASTE.
L 2	LAVATORY (UNDER COUNTER, HW/CW)	1-1/4"	2"	1-1/2"	1/2"	1/2"	--	AMERICAN STANDARD (A/S) NO. 0496.221 "OVALYN II UNDERCOUNTER LAVATORY", 20" X 17", UNDERCOUNTER MOUNTED, VITREOUS CHINA. COMPETE WITH GROHE LINEARE NO. 2057800A W/ LEVER HANDLES & POP UP DRAIN, McGUIRE NO. 8089NC 1-1/2" L.A. PATTERN P-TRAP, GALVANIZED NIPPLE AND CHROMIUM PLATED BRASS CASING, AND CHICAGO NO. 1019-ABCP STOPS WITH WHEEL HANDLE AND RIGID SUPPLIES. MOUNT IN ACCORDANCE WITH ADA EQUIREMENTS.
S 1	SINK (KITCHEN, SINGLE BOWL, HW/CW,)	1-1/2"	2"	1-1/2"	1/2"	1/2"	--	REFER TO ARCHITECTURAL DRAWING FOR INTEGRAL SINK INFORMATION. COMPLETE WITH ELKAY NO. LKAV4061 PRE-RINSE FAUCET WITH 1.5 GPM FLOW REGULATOR, McGUIRE NO. 151 1-1/2" OUTLET "BRASS BASKET STRAINER", McGUIRE NO. 8089NC 1-1/2" L.A. PATTERN P-TRAP AND CHICAGO NO. 1019-ABCP STOPS WITH WHEEL HANDLE AND RIGID SUPPLIES. SINK SIZE 30" X 18" X 10".
S 2	SINK (KITCHEN, SINGLE BOWL, HW/CW, DISPOSER)	1-1/2"	2"	1-1/2"	1/2"	1/2"	--	REFER TO ARCHITECTURAL DRAWING FOR INTEGRAL SINK INFORMATION. COMPLETE WITH ELKAY NO. LKAV4061 PRE-RINSE FAUCET WITH 1.5 GPM FLOW REGULATOR, McGUIRE NO. 151 1-1/2" OUTLET "BRASS BASKET STRAINER", INSINKERATOR EVOLUTION SERIES FOOD WASTE DISPOSER, 1 H.P./120V/10.2 AMP AVG., McGUIRE NO. 8089NC 1-1/2" L.A. PATTERN P-TRAP AND CHICAGO NO. 1019-ABCP STOPS WITH WHEEL HANDLE AND RIGID SUPPLIES. SINK SIZE 30" X 18" X 10".
S 3	SINK (SINGLE BOWL, HW/CW,)	1-1/2"	2"	1-1/2"	1/2"	1/2"	--	ELKAY NO. ELUH131650 "LUSTERTONE SINGLE BOWL UNDERMOUNT SINK", SINGLE COMPARTMENT, 18 GAUGE TYPE 304 STAINLESS STEEL, UNDERCOUNTER MOUNTED, 18-1/2" X 16" X 4-7/8" DEEP. COMPLETE WITH KOHLER NO. K-597 FAUCET WITH MODEL NO. 1167289 AERATOR, McGUIRE NO. 151 1-1/2" OUTLET "BRASS BASKET STRAINER", McGUIRE NO. 8089NC 1-1/2" L.A. PATTERN P-TRAP, GALVANIZED NIPPLE AND CHROMIUM PLATED BRASS CASING, AND CHICAGO NO. 1019-ABCP FIXED KEY STOP WITH RIGID SUPPLIES.
S 4	SINK (SINGLE BOWL, HW/CW)	1-1/2"	2"	1-1/2"	1/2"	1/2"	--	ELKAY NO. WCNSF8100L SINGLE COMPARTMENT, 14 GAUGE TYPE 304 STAINLESS STEEL, SCULLERY SINK, CUSTOM SIZE 72" LONG WITH 36" WIDE SINK AND 36" WIDE DRAIN BOARD. COMPLETE WITH CHICAGO NO. 629-CR45869AB, PRE-RINSE FITTING, WALL-MOUNTED WITH ADJUSTABLE ARMS, PRE-RINSE SPRAY VALVE 1.0 GPM. TWO CHICAGO NO. 625-SLOABCP REMOTE FOOT PEDAL VALVES, McGUIRE NO. 152 1-1/2" OUTLET "WIDE TOP SINK STRAINER", McGUIRE NO. PW8089NCO 1-1/2" L.A. PATTERN P-TRAP WITH TRAP AND SUPPLY COVERS, GALVANIZED NIPPLE AND CHROMIUM PLATED BRASS CASING, AND CHICAGO NO. 1019-ABCP STOPS WITH WHEEL HANDLE RIGID SUPPLIES. LEFT SIDE DRAIN BOARD.
SS 1	SERVICE SINK	3"	3"	2"	3/4"	3/4"	--	CECO NO. 871 "CORNER SERVICE SINK", ENAMELED CAST IRON, CORNER FLOOR MOUNTED, COMPLETE WITH CHICAGO NO. 445-PVB-CP FAUCET, CECO NO. B71-3" 3" DIAMETER DRAIN WITH FLAT CHROME STRAINER, CECO NO. B-872 COATED WIRE RIM GUARD AND HOSE.
SS 2	SERVICE SINK	3"	3"	2"	3/4"	3/4"	--	CECO NO. 865 "SERVICE SINK", 22" X 18", ENAMELED CAST IRON, WALL MOUNTED, COMPLETE WITH CHICAGO NO. 305-VBR FAUCET WITH INTEGRAL STOPS, PAIL HOOK, VACUUM BREAKER AND ADJUSTABLE SUPPLY ARMS, 3" DIAMETER CAST IRON P-TRAP STANDARD WITH STRAINER, AND CONCEALED WALL HANGER.
TP 1	TRAP PRIMER (SINGLE DRAIN)	--	--	--	--	1/2"	--	MIFAB NO. MR-500 TRAP PRIMER VALVE, BRASS BODY, ADJUSTABLE, COMPLETE WITH 1/2" COPPER TYPE "L" PIPE TO RECEPTOR. INSTALL PER MANUFACTURER'S RECOMMENDATIONS, COMPLETE BEHIND ACCESS PANEL WITH SHUT-OFF VALVE.
TP 2	TRAP PRIMER (MULTIPLE DRAIN)	--	--	--	--	1/2"	--	MIFAB NO. MR-500 TRAP PRIMER VALVE, BRASS BODY, ADJUSTABLE, COMPLETE WITH MI-DU DISTRIBUTION UNIT, 1/2" COPPER TYPE "L" PIPE TO EACH RECEPTOR. INSTALL PER MANUFACTURER'S RECOMMENDATIONS, COMPLETE BEHIND ACCESS PANEL WITH SHUT-OFF VALVE.
TP 3	TRAP PRIMER (ELECTRONIC)	--	--	--	--	1/2"	--	PPP NO. MP-500-115V MINI-PRIME ELECTRONIC TRAP SEAL PRIMER SYSTEM WITH BALL VALVE, VACUUM BREAKER AND SOLENOID VALVE (120 VOLT, 1 PHASE). COMPLETE WITH SHUT-OFF VALVE AND 1/2" COPPER TYPE "L" PIPE TO RECEPTOR.
WHA 1	WATER HAMMER ARRESTOR	--	--	--	--	--	--	ZURN NO. Z-1700 SERIES "SHOKTROL" WATER HAMMER ARRESTOR COMPLETE BEHIND ACCESS PANEL. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
FD 1	FLOOR DRAIN	2"	2"	1-1/2"	--	--	--	ZURN NO. ZN-415-BZ1-P, CAST IRON BODY, COMPLETE WITH ROUND NICKEL-BRONZE TOP, CLAMPING COLLAR, 1/2" TRAP PRIMER CONNECTION AND P-TRAP.
FD 2	FLOOR DRAIN (SHOWER)	2"	2"	1-1/2"	--	--	--	ZURN NO. ZN-415-BZ1-113, CAST IRON BODY, COMPLETE WITH ROUND NICKEL-BRONZE TOP, CLAMPING COLLAR, AND P-TRAP.
TD 1	TRENCH DRAIN	3"	3"	--	--	--	--	ZURN NO. Z886-HPD CUSTOM PREFABRICATED TRENCH DRAIN, WITH DUCTILE CAST IRON LONGITUDINAL GRATE.
TD 2	TRENCH DRAIN	4"	4"	2"	--	--	--	ZURN NO. Z8206-BG-U4-E1, "Z882-HDS" WIDE TRENCH SYSTEM", COMPLETE WITH GALVANIZED WIDE BAR GRATE, 4" NO-HUB BOTTOM OUTLET, CLOSED END CAP, BOTTOM DOME STRAINER AND P-TRAP. CONTRACTOR TO FIELD CUT DRAIN BODY TO 48" LONG.
SH 1	SHOWER	--	--	--	3/4"	3/4"	--	SYMMONS NO. 261XBODY WITH 3591B15TRM WITH, 532SH-1.5. COMPLETE WITH PRESSURE BALANCING MIXING VALVE WITH LEVER HANDLE, INTEGRAL SERVICE STOPS, 1.5 GPM ADJUSTABLE SHOWER HEAD.
SH 2	SHOWER (ACCESSIBLE)	--	--	--	3/4"	3/4"	--	SYMMONS NO. S262XBODYNS WITH S3598BL515TRM, AND ADA SLIDE/GRAB BAR ASSEMBLY H359315. COMPLETE WITH PRESSURE BALANCING MIXING VALVE WITH LEVER HANDLE, INTEGRAL SERVICE STOPS, HAND-HELD SHOWER, 60" HOSE, INLINE VACUUM BREAKER AND 36" SLIDE BAR.
SH 3	SHOWER (DECON.)	--	--	--	3/4"	3/4"	--	CHICAGO NO. 923-HC WALL MOUNTED COMBINATION PRE-RINSE FITTING WITH 44" STAINLESS STEEL HOSE #80 SPRAY HEAD AND 23" RISER WITH INTEGRATED PIPE SUPPORT AND HOOK ASSEMBLY AND ADJUSTABLE HC SUPPLY ARMS WITH INTEGRAL CHECKS AND 369 LEVER HANDLES AND FINISH CHROME PLATE.

ITEM	FIXTURE	ROUGH-IN CONNECTIONS						DESCRIPTION
		TRAP	WASTE	VENT	HOT WATER	COLD WATER	GAS	
FS 1	FLOOR SINK	2"	2"	1-1/2"	--	--	--	ZURN NO. ZN1901-KC-P-2, 12" X 12" X 8" DEEP, CAST IRON BODY, ACID-RESISTING ENAMELED INTERIOR. COMPLETE WITH DOME STRAINER, NICKEL-BRONZE HALF GRATE, SEEPAGE FLANGE, TRAP PRIMER CONNECTION AND P-TRAP.
WB 1	WASHING BOX	2"	2"	1-1/2"	3/4"	3/4"	--	ACORN NO. 8186, TYPE 304 STAINLESS STEEL, RECESSED BOX WITH 3/4" HOT AND COLD WATER VALVES, SCREWDRIVER STOPS, VACUUM BREAKERS AND 2" DRAIN PIPE.
SI 1	SAND-OIL INTERCEPTOR	--	--	--	--	--	--	JENSEN NO. 1000EPE-SO, 2-COMPARTMENT PRE-CAST CONCRETE SAND-OIL INTERCEPTOR, 1000 GALLON CAPACITY. COMPLETE WITH MANHOLES WITH CONCRETE MANHOLE EXTENSIONS TO GRADE AS REQUIRED AND 24" DIA. GAS TIGHT CAST IRON TRAFFIC WEIGHT COVERS. (ENTIRE INSTALLATION SHALL CONFORM TO THE MANUFACTURER'S RECOMMENDATIONS).
RD 1	ROOF DRAIN	SEE PLAN FOR SIZES						ZURN NO. ZC100-DP-84, 15" CAST IRON BODY, COMPLETE WITH ADJUSTABLE EXTENSION SLEEVE, FLASHING COLLAR, STAINLESS STEEL GRAVEL STOP, CAST IRON DOME STRAINER, SUMP RECEIVER, AND UNDERDECK CLAMP.
OD 1	OVERFLOW DRAIN	SEE PLAN FOR SIZES						ZURN NO. ZC100-DP-84-89, 15" CAST IRON BODY, COMPLETE WITH CAST IRON DOME STRAINER, UNDERDECK CLAMP, AND 2" HIGH WATER DAM.
AD 1	AREA DRAIN	SEE PLAN FOR SIZES						ZURN NO. ZN-158-NH-C "8" TOP PROM-DECK DRAIN WITH HEEL PROOF GRATE, CAST IRON BODY, COMPLETE WITH SQUARE POLISHED NICKEL-BRONZE GRATE AND UNDERDECK CLAMP.
DN 1	DOWNSPOUT NOZZLE	SEE PLAN FOR SIZES						ZURN NO. Z199-DC, STAINLESS STEEL FRAME WITH FABRICATED SECURED PERFORATED STAINLESS STEEL HINGED STRAINER, THREADED INLET AND DECORATIVE FACE OF WALL FLANGE AND OUTLET NOZZLE.
ET 1	EXPANSION TANK	--	--	--	--	--	--	WILKINS NO. WXT-18, 4 GALLON, DIAPHRAGM TYPE, PRE-PRESSURIZED WITH WELDED EXTERIOR, BUTYL DIAPHRAGM AND EPOXY COATED EXTERIOR W/ MAPA MXC-11 EXPANSION TANK CAGE.
HB 1	HOSE BIBB (FREE STANDING, ROOF)	--	--	--	--	3/4"	--	ACORN NO. 8126-CR "BENT NOSE" HOSE BIBB, FREE STANDING, CHROME-PLATED ROUGH, WITH INTEGRAL VACUUM BREAKER, LOOSE KEY OPERATION. SUPPLY PIPING SHALL BE SECURELY FASTENED TO ROOF DECKING WITH 3/4" NIBCO NO. 724-5-A "HY-SET HANGER COUPLING".
RHB 1	RECESSED HOSE BIBB	--	--	--	--	3/4"	--	ACORN NO. 8104, RECESSED WALL MOUNTED, STAINLESS STEEL BOX, WITH INTEGRAL VACUUM BREAKER AND LOCKING DOOR.
SGV 1	SEISMIC GAS VALVE	ITEM SHALL BE SIZED TO MATCH FULL LINE SIZE OF PIPING SERVED. SEE PLAN FOR SIZES.						KOSO/CALIFORNIA EARTHQUAKE SENSITIVE SHUT-OFF VALVE, 60 PSI WORKING PRESSURE, U.L. LISTED, THREADED CONNECTIONS FOR SIZES 2" AND LESS, FLANGED CONNECTIONS FOR SIZES GREATER THAN 2". PRESSURE DROP SHALL NOT EXCEED 13" EQUIVALENT PIPING LENGTH.
SV 1	SOLENOID VAVLE	ITEM SHALL BE SIZED TO MATCH FULL LINE SIZE OF PIPING SERVED. SEE PLAN FOR SIZES.						ISIMET 300 SERIES ALUMINUM BODY SOLENOID VALVE, NATURAL GAS, 24 VOLT, GAS VALVE WILL HAVE Y-STRAINER, BALL VALVE AND UNION. (WIRING FROM CONTROL STATION BY ELECTRICAL CONTRACTOR) FOR PIPE SIZES 1/2" THRU 3".
SV 2	SOLENOID VAVLE	ITEM SHALL BE SIZED TO MATCH FULL LINE SIZE OF PIPING SERVED. SEE PLAN FOR SIZES.						ISIMET 300 SERIES ALUMINUM BODY SOLENOID VALVE, NATURAL GAS, 24 VOLT, GAS VALVE WILL HAVE Y-STRAINER, BALL VALVE AND UNION. (WIRING FROM CONTROL STATION BY ELECTRICAL CONTRACTOR) FOR PIPE SIZES 1/2" THRU 3".
CS 1	CONTROL STATION (WALL-MOUNT)	--	--	--	--	--	--	ISIMET MODEL NUMBER FLA-V2-F-LV-P. FLUSH-MOUNTED 24VDC AND PUSH BUTTON CONTROL. 120 VOLT, 15 AMP DEDICATED INPUT CIRCUIT, 24VDC OUTPUT CURCUIT WITH (18/4AWG) WIRING. CONFIGURED FOR INSTALLATION IN WALL.
ROP 1	REMOTE OPERATOR	--	--	--	--	--	--	ISIMET OGC-F-P OUTDOOR GRILL CONTROLLER 24VDC INPUT AND OUTPUT CURCUIT. (WIRING FROM ROMOTE OPERATOR BY ELECTRICAL CONTRACTOR).
ECE 1	ELECT. CONTACT ENCLOSURE	--	--	--	--	--	--	ISIMET E314-S-L, FOUR POLE CONTACT ENCLOSURE, CONFIGURED FOR RECESSED INSTALLATION. 24 VOLT WIRING OUTPUT SIGNAL FROM THE CONTROLLER TO TURN ON AND OFF THE CIRCUITS OPERATED BY THE CONTACT.
GC 1	GAS COCK	--	--	--	--	--	1 1/4"	TRRACPIPE FGP-WBTM-750, RECESSED METAL WALL BOX WITH GAS COCK.
IMB 1	ICE MAKER BOX	--	--	--	--	1/2"	--	GUY GRAY NO. MIB1-HAAB "METAL LEAD FREE ICE MAKER BOX", COMPLETE WITH INTEGRAL HAMMER ARRESTER QUARTER-TURN VALVE, 1/4" O.D. COMPRESSION OUTLET CONNECTION AND WHITE POWDER COAT FINISH. INSTALL ICE MAKER BOX @ 18" ABOVE FINISH FLOOR.
RO 1	REVERSE OSMOSIS	--	--	--	--	3/4"	--	CLEARWATER CORPORATION MODEL NO. CHGRO50PP-4 SYSTEM SHALL CONSIST OF GRADIENT DENSITY PREFILTER, CARBON BLOCK PREFILTER, HIGH EFFICIENCY 1 TO 1 MEMBRANE, PERMEATE PUMP, GAC/PHOSPHATE POST FILTER, AUTOMATIC SHUT OFF, DRAIN LINE FLOW CONTROL, THREE TH-12P STORAGE TANKS, AIR GAP RO FAUCET
F 1	REVERSE OSMOSIS FAUCET	--	--	--	--	3/4"	--	TOMLINSON 600 CBR SERIES "CONTEMPORARY RO FAUCET" FINISH TO MATCH ELKAY NO. LKAV4061 PRE-RINSE FAUCET. COMPLETE WITH AIRGAP MODEL NO. AG200-005 "DUAL AIR GAP FOR DISHWASHER AND REVERSE OSMOSIS FILTERS" CONNECT WASTE FROM REVERSE OSMOSIS SYSTEM AND DISHWASHER TO GARBAGE DISPOSER. AIRGAP TO BE INSTALLED BEFORE PLUMBING THE GARBAGE DISPOSER.
DF 1	DRINKING FOUNTAIN W/BOTTLE FILLER (ACCESSIBLE)	1-1/2"	2"	1-1/2"	--	3/4"	--	ELKAY NO. LZWS-EDFP217K WITH BOTTLE FILLER, WALL MOUNTED, 18-GAUGE STAINLESS STEEL. MANUFACTURE RECOMMENDED MOUNTING PLATE, COMPLETE WITH CHICAGO NO. 45LKABCP ANGLE STOP WITH 1/2" FEMALE INLET & OUTLET. MOUNT AT ADA ACCESSIBLE HEIGHT.

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PocockDesignSolutions Inc.

FIRE STATION #44
COASTSIDE FIRE PROTECTION DISTRICT

501 STETSON STREET
MOSS BEACH, CA 94038

BID SET

KEY PLAN

PLAN NORTH

TRUE NORTH

REGISTERED PROFESSIONAL ENGINEER
ANDREW R. GOSSMAN
No. M29639
Exp. 3/31/26
MECHANICAL
STATE OF CALIFORNIA

CLIENT
COASTSIDE FIRE PROTECTION DISTRICT

PROJECT NUMBER
230137

DATE 3/13/2026

DRAWN BY: KF/OS CHKED BY: AD

REVISIONS

#	DESCRIPTION	DATE
1	PLANCHECK #1 RESPONSE	12/11/25
2	PLANCHECK #2 RESPONSE	03/13/26
S	NON-PC RESYNCH	03/13/26
3	PLANCHECK #3 RESPONSE	05/22/2026
4	PLANCHECK #4 RESPONSE	07/24/2026
5	ADDENDUM #6	10/23/2026

PLUMBING FIXTURE SCHEDULES

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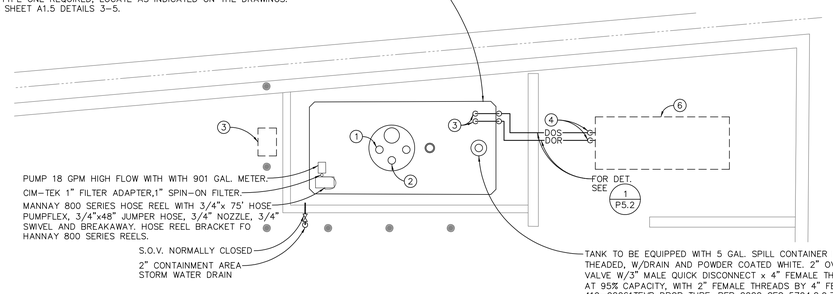
P0.2

ABOVE GROUND FUEL TANK FUEL MANAGEMENT SYSTEM

ALL WIRING AND CONDUIT WILL BE INSTALLED PER MANUFACTURE REQUIREMENTS AND AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM BY THE ELECTRICAL CONTRACTOR.

ABOVE GROUND FUEL TANK

1000 GALLON CAPACITY ABOVE GROUND FUEL TANK BY ENVIRO VAULT. 1000 GALLON DIESEL. INSTALL ONE (1) NEW TOP-MOUNT DIESEL DISPENSER PACKAGE. DISPENSER PUMP SHALL BE MINIMUM 7 AMPS AND MAXIMUM 10 AMPS. TANK TO BE EQUIPPED WITH A SEVEN GALLON UL LISTED SPILL CONTAINMENT AND EARTHQUAKE RESTRAINTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. ON THE NORTH END OF THE TANK, USING A STENCIL, PAINT THE STATEMENTS, "NO SMOKING" AND "EMERGENCY SHUT OFF SWITCH AT MAIN BUILDING". LETTERING TO BE 2 INCHES HIGH, BLACK IN COLOR AND OF HELVETICA REGULAR TYPE ONE REQUIRED, LOCATE AS INDICATED ON THE DRAWINGS. REFER TO SHEET A1.5 DETAILS 3-5.



CONSTRUCTION KEY NOTES:

1. 2" D.O.V. UP TO 12'-0" ABOVE FINISH GRADE WITH OPW MODEL NO. 23-0033, (2") OPEN ATMOSPHERIC VAPOR VENT.
2. FUEL COMPARTMENT TO INCLUDE AUTOMATIC TANK GAUGE VEEDER-ROOT NO.TLS4B, PRE-SET AT 90% CAPACITY. LOCATION OF VEEDER-ROOT TO BE IN APP BAY AND WIRED BACK TO TANK. SEE ELECTRICAL DRAWING FOR LOCATION AND SPECIFICATIONS.
3. FUEL MANAGEMENT SYSTEM "FUELMASTER 2500 PLUS" 120 VOLTS, SINGLE PHASE.
4. P.O.C. 3/4" D.O.S. AND 1" D.O.R. TO EMERGENCY GENERATOR PER MANUFACTURER RECOMMENDATIONS.
5. P.O.C. 3/4" D.O.S. AND 1" D.O.R. TO FUEL TANK PER MANUFACTURER RECOMMENDATIONS.
6. EMERGENCY GENERATOR SEE ELECTRICAL DRAWINGS AND SPECIFICATIONS.

MATERIAL:

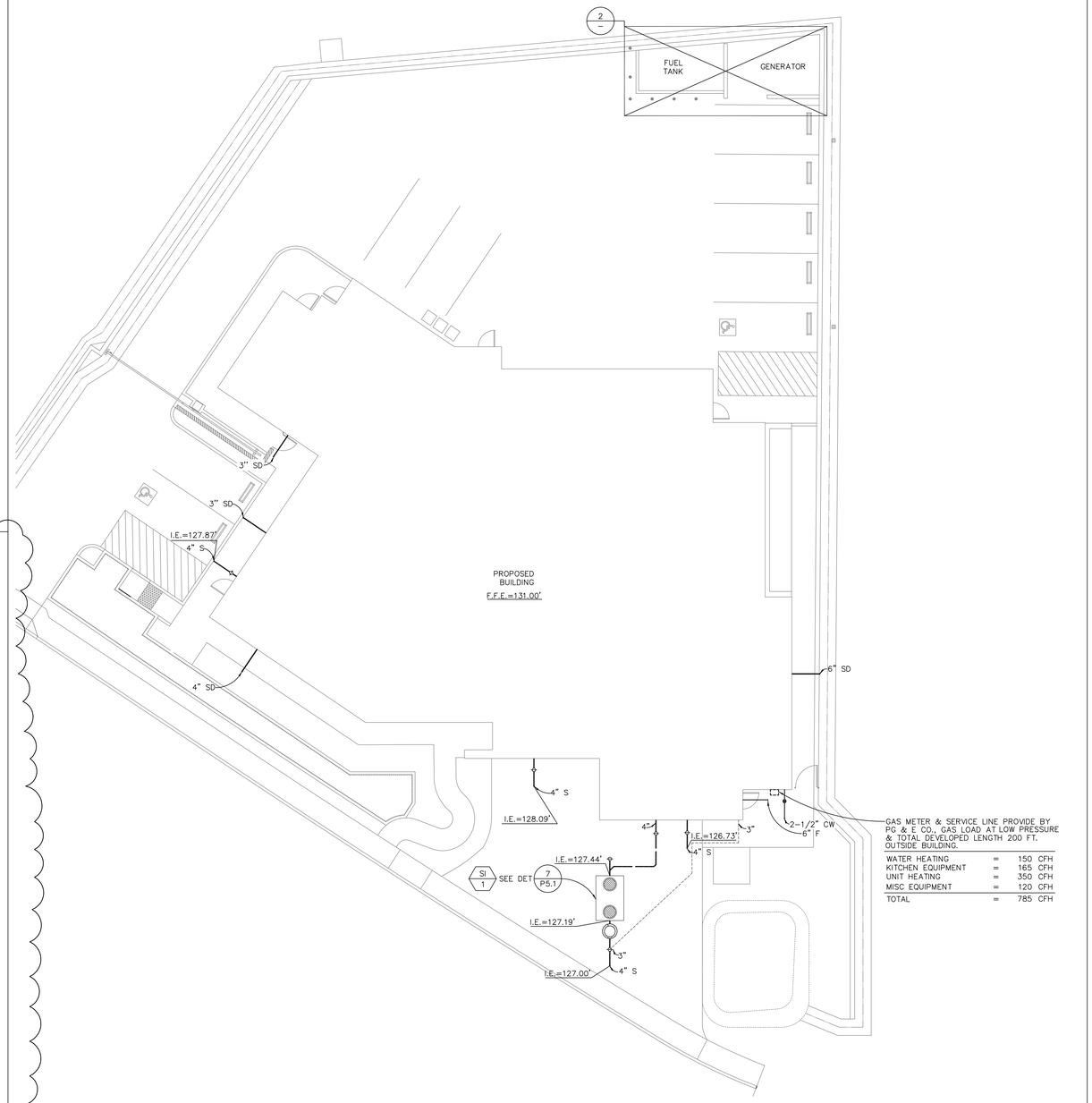
1. 3/4" DIESEL FUEL SUPPLY LINE AND 1" DIESEL FUEL RETURN LINE SHALL BE SCHEDULE 40 BLACK STEEL PIPE CONFORMING TO ASTM A-53 USING 150 POUND BANDED MALLEABLE IRON SCREWED FITTING.

CONSTRUCTION NOTES:

1. TANK INSTALLATION AND TESTING SHALL COMPLY WITH NFPA 30, 30A, 70 AND UFC STANDARD 79-9 AND ALL APPLICABLE CODES, STANDARD PRACTICES OF THE TRADE AND AUTHORITIES HAVING JURISDICTION AND TANK MFG. INSTRUCTIONS.
2. CONTRACTOR SHALL OBTAIN ENVIRONMENT HEALTH SERVICES APPROVAL OF ABOVE GROUND FUEL TANK, BEFORE INSTALLATION.
3. ANCHORING TANK SHALL BE INSTALL PER TANK MANUFACTURER RECOMMENDATIONS.

FUEL TANK

SCALE 1/4"=1'-0" | 2



CONSTRUCTION NOTES:

1. FOR CONTINUATION OF ALL UTILITIES SEE CIVIL ENGINEERING DRAWINGS.

NORTH

PLUMBING SITE PLAN

SCALE 1"=10'-0" | 1

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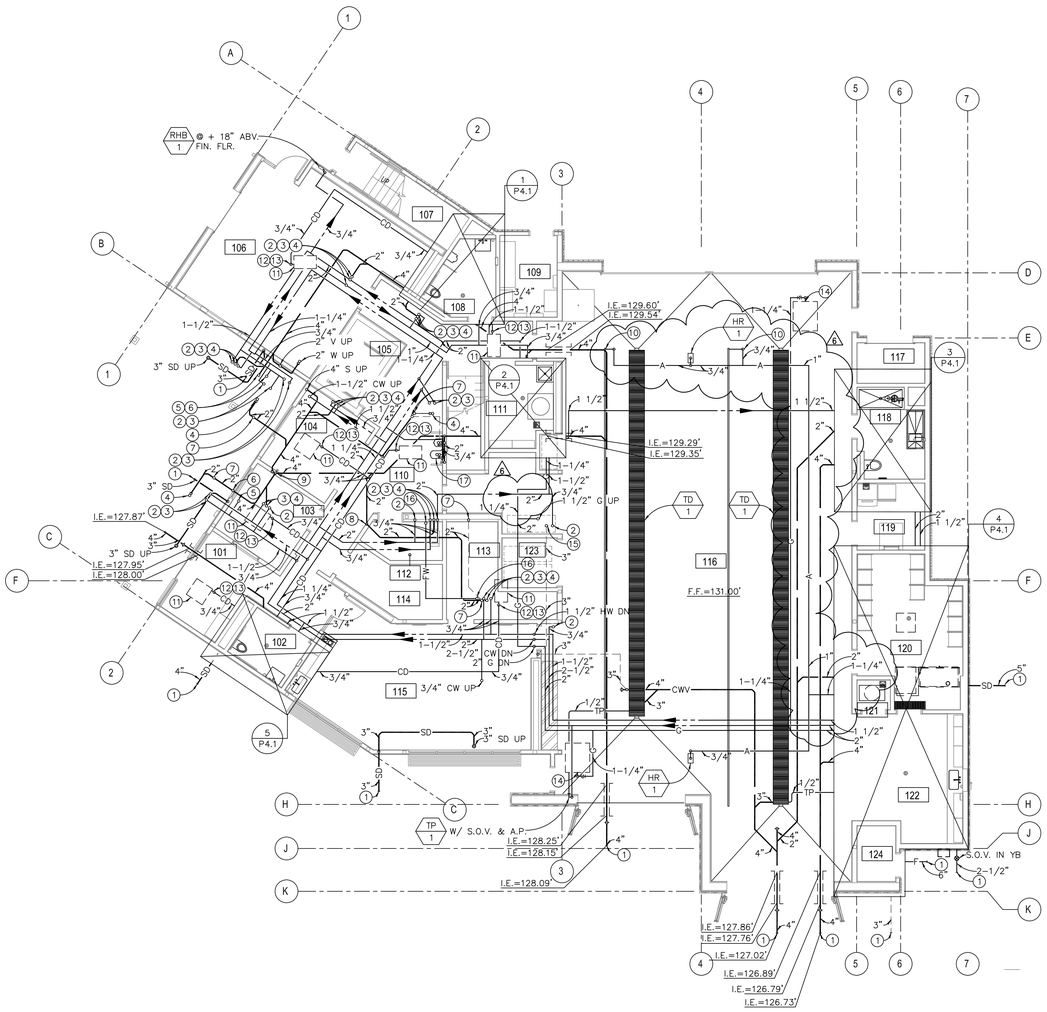
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5	ADDENDUM #5	10/23/2026

PLUMBING SITE PLAN

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P1.1

ROOM #	ROOM NAME	ROOM #	ROOM NAME
101	LOBBY	201	BATTALION CHIEF
102	RESTROOM	202	BALCONY
103	CAPTAIN'S OFFICE	203	BC RESTROOM
104	OFFICE	204	DORM 1
105	ELEVATOR	205	RESTROOM
106	FITNESS	206	ELEVATOR
107	STAIRWAY 1	207	RESTROOM
108	RESTROOM	208	CAPTAIN
109	ELECTRICAL ROOM	209	DORM 2
110	HALLWAY	210	DORM 3
111	CUSTODIAL	211	LAUNDRY
112	ELEVATOR MACHINE	212	HALLWAY
113	STORAGE	213	ACCESSIBLE RR
114	TELECOM	214	BESTIBULE
115	CLASSROOM	215	STORAGE
116	APPARATUS BAY	216	PANTRY
117	YARD STORAGE	217	KITCHEN
118	DECON	218	DINING
119	EMS STORAGE	219	DAYROOM
120	TURNOUT	220	DECK
121	COMPRESSOR		
122	SHOP		
123	HOSE DRY STORAGE		
124	FIRE RISER		
125	VESTIBULE		



CONSTRUCTION NOTES:

1. ALL HORIZONTAL STORM DRAIN PIPING ABOVE CEILING SHALL SLOPE AT 1% UNLESS OTHERWISE NOTED.
2. ALL CONDENSATE DRAIN PIPING ABOVE CEILING SHALL SLOPE AT 1% UNLESS OTHERWISE NOTED.
3. ALL GAS PIPING SIZES INSIDE THE BUILDING ARE BASED ON CALIFORNIA PLUMBING CODE 2022 TABLE 1215.2(1) (LOW PRESSURE) AT TOTAL DEVELOPED LENGTH 200 FEET & 785 CFH.
4. ALL CEILING, WALL, FLOOR & ROOF PENETRATIONS SHALL BE MINIMUM TWO PIPE SIZES LARGER THAN THE PIPE GOING THRU IT, PROVIDE ALL SLEEVES.
5. ALL STORM DRAIN LINES, WASTE LINES & COLD WATER LINES INTO FOOTINGS SHALL BE DOUBLE HALF LAP WRAPPED WITH 1/8" THICK "ARMOFLEX" INSULATION. ALSO, THE CONTRACTOR SHALL PROVIDE BLOCKED OUT AREAS IN THE FOOTING FOR STORM DRAIN LINES, WASTE LINES & COLD WATER LINES. ALL PIPING SHALL AVOID THE LOWER 9" OF THE FOOTING.

CONSTRUCTION KEY NOTES:

1. FOR CONTINUATION OF ALL UTILITIES SEE SHEET P1.1.
2. 3/4" CW UP
3. 3/4" HW UP
4. 2" W UP
5. 1-1/2" CW UP
6. 4" S UP
7. 2" V UP
8. 2" W UP & DN IN WALL
9. 4" S UP & DN IN WALL
10. P.O.C. 3/4" AIR TO PLYMOVENT RAILS.
11. FAN COIL UNIT ABOVE CEILING, SEE MECH. DWGS. FOR EXACT LOCATION.
12. P.O.C. 3/4" CD TO CONDENSATE PUMP IN CLG.
13. CONDENSATE PUMP PROVIDED BY MECHANICAL CONTRACTOR.
14. P.O.C. 1-1/4" G TO UNIT HEATER BEL. CLG. W/ G.C. (175 CFH) SEE MECH DWG. FOR EXACT LOCATION.
15. 3" V UP
16. FILTER WATER LINE UP
17. DF-1

NORTH

SCALE 1/8"=1'-0"

PLUMBING FIRST FLOOR PLAN

1

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DRAWN BY: KF/OS CHKED BY: AD

REVISIONS

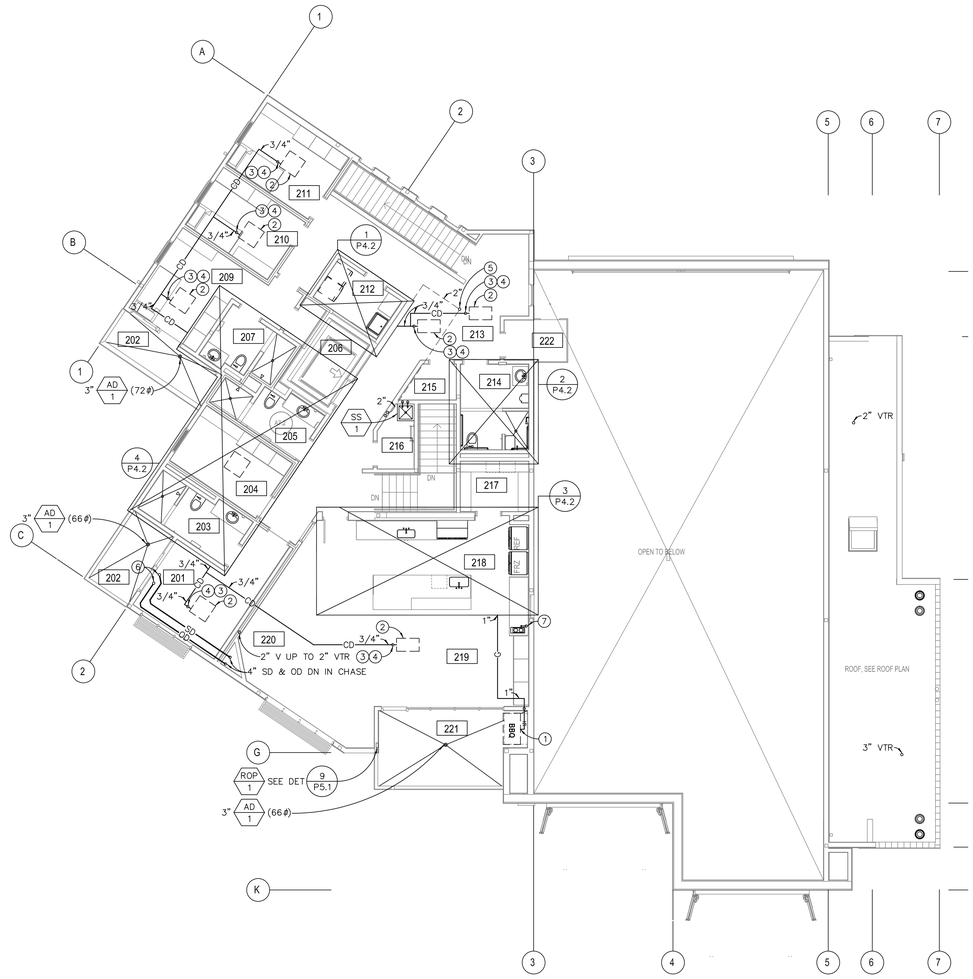
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1	PLANCHECK #1 RESPONSE	12/11/25
2	PLANCHECK #2 RESPONSE	03/13/26
B	NON-PC REVISION	03/13/26
3	PLANCHECK #3 RESPONSE	05/22/2026
4	PLANCHECK #4 RESPONSE	07/24/2026
6	ADDENDUM #6	10/23/2026

PLUMBING FIRST FLOOR PLAN

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P2.1

ROOM #	ROOM NAME
201	BATTALION CHIEF
202	BALCONY
203	BC RESTROOM
204	DORM 1
205	RESTROOM
206	ELEVATOR
207	CAPTAIN RR
208	BALCONY
209	CAPTAIN DORM
210	DORM 2
211	DORM 3
212	LAUNDRY
213	HALLWAY
214	ACCESSIBLE RR
215	VEST
216	STOR 3
217	PANTRY
218	KITCHEN
219	DINING
220	DAYROOM
221	DECK
222	SLIDE POLE DECK



CONSTRUCTION NOTES:

1. ALL STORM DRAIN PIPE SIZES ARE BASED ON CALIFORNIA PLUMBING CODE 2022 TABLE 1103.1 & 1103.2 AT 4" RAINFALL PER HOUR.
2. ALL HORIZONTAL STORM DRAIN PIPING ABOVE CEILING SHALL SLOPE AT 1% UNLESS OTHERWISE NOTED.
3. ALL CONDENSATE DRAIN PIPING ABOVE CEILING SHALL SLOPE AT 1% UNLESS OTHERWISE NOTED.
4. ALL GAS PIPING SIZES INSIDE THE BUILDING ARE BASED ON CALIFORNIA PLUMBING CODE 2022 TABLE 1215.2(1) (LOW PRESSURE) AT TOTAL DEVELOPED LENGTH 200 FEET & 785 CFH. 6

CONSTRUCTION KEY NOTES:

1. P.O.C. 1" GAS TO BBQ (120 CFH) WITH QUICK GAS DISCONNECT.
2. FAN COIL UNIT ABOVE CEILING, SEE MECH. DWGS. FOR EXACT LOCATION.
3. P.O.C. 3/4" CD TO CONDENSATE PUMP IN CLG.
4. CONDENSATE PUMP PROVIDED BY MECHANICAL CONTRACTOR.
5. 2" V UP TO 2" VTR
6. 4" SD & OD UP
7. 1/2" COLD WATER WITH ANGLE STOP FOR COFFEE MAKER.

NORTH

PLUMBING SECOND FLOOR PLAN

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

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COASTSIDE FIRE PROTECTION DISTRICT EST. 2002

BID SET

KEY PLAN
PLAN NORTH
TRUE NORTH

REGISTERED PROFESSIONAL ENGINEER
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STATE OF CALIFORNIA

CLIENT
COASTSIDE FIRE PROTECTION DISTRICT
PROJECT NUMBER
230137
DATE 3/13/2026
DRAWN BY: KF/OS CHKED BY: AD

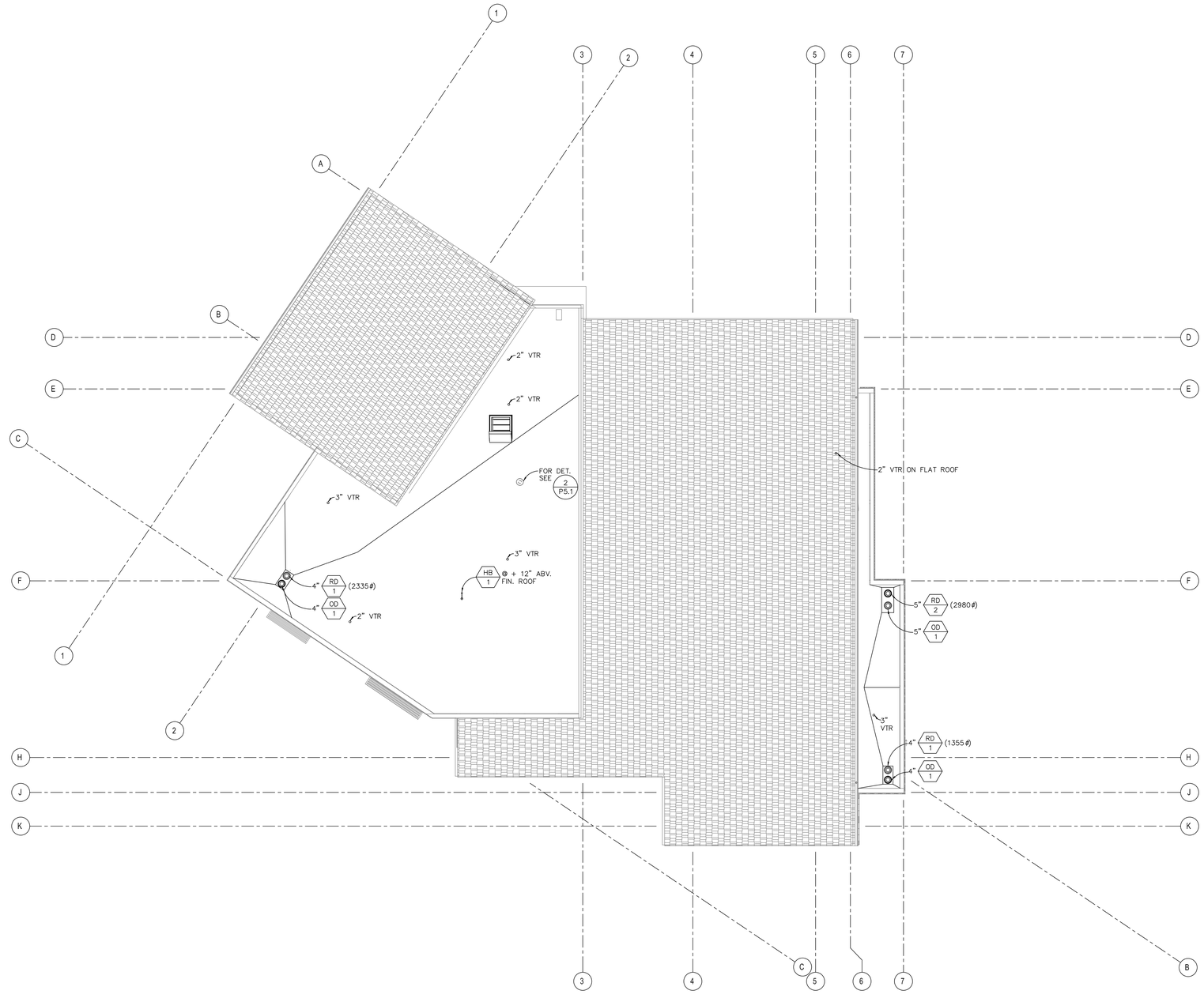
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2	PLANCHECK #2 RESPONSE	03/13/26
B	NON-PC REVISION	03/13/26
3	PLANCHECK #3 RESPONSE	05/22/2026
4	PLANCHECK #4 RESPONSE	07/24/2026
6	ADDENDUM #6	10/23/2026

PLUMBING SECOND FLOOR PLAN

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P2.2



CONSTRUCTION NOTES:

1. ALL STORM DRAIN PIPE SIZES ARE BASED ON CALIFORNIA PLUMBING CODE 2022 TABLE 1103.1 & 1103.2 AT 4" RAINFALL PER HOUR.

NORTH

PLUMBING ROOF PLAN

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

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PROJECT NUMBER 230137
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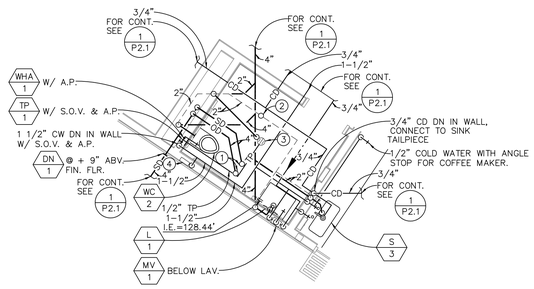
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3	PLANCHECK #3 RESPONSE	03/22/2026
4	PLANCHECK #4 RESPONSE	07/24/2026
6	ADDENDUM #6	10/23/2026

PLUMBING ROOF PLAN

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P3.1

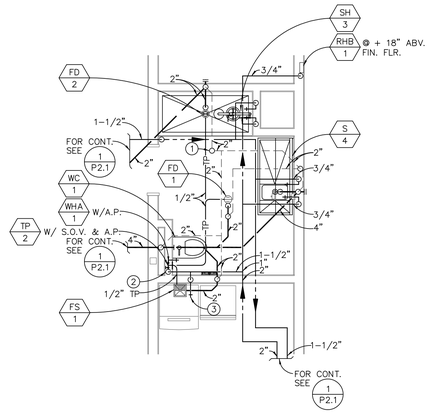


CONSTRUCTION KEY NOTES:

1. 4" SD & OD UP
2. 2" V UP IN WALL ABV.
3. FD-1
4. RHB-1 @ +18" ABV. FIN. FLR.

ENLARGED PLUMBING FLOOR PLAN

SCALE 1/4"=1'-0" | 5

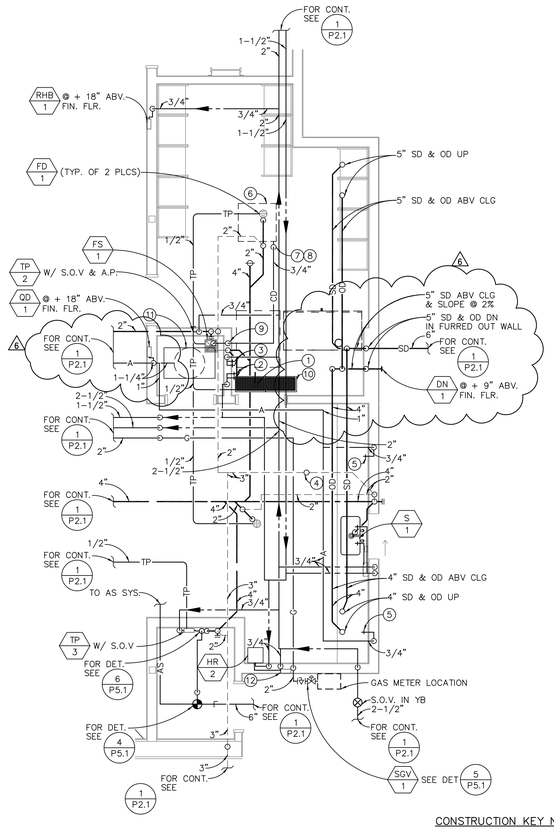


CONSTRUCTION KEY NOTES:

1. 2" V UP TO 2" VTR
2. 1 1/2" CW DN IN WALL W/ S.O.V. & A.P.
3. 1/2" COLD WATER WITH ANGLE STOP FOR ICE MAKER.

ENLARGED PLUMBING FLOOR PLAN

SCALE 1/4"=1'-0" | 3

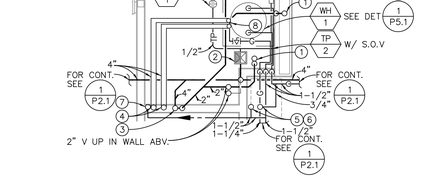


CONSTRUCTION KEY NOTES:

1. P.O.C. 3" WASTE LINE TO EXTRACTOR AND SPILL INTO TRENCH DRAIN.
2. 1" HOT WATER DOWN IN WALL WITH TWO (2) 3/4" HOT WATER WITH S.O.V. FOR EXTRACTOR.
3. 1 1/4" COLD WATER DOWN IN WALL WITH TWO (2) 3/4" COLD WATER WITH S.O.V. FOR EXTRACTOR.
4. 3" V UP TO 3" VTR.
5. QD-1 @ 54" ABV. FIN. FLR.
6. FAN COIL UNIT ABOVE CEILING, SEE MECH. DWGS. FOR EXACT LOCATION.
7. P.O.C. 3/4" CD TO CONDENSATE PUMP IN CLG.
8. CONDENSATE PUMP PROVIDED BY MECHANICAL CONTRACTOR.
9. 3/4" CD DN IN WALL, SPILL TO FLOOR SINK W/ 2" AIR GAP.
10. TD-2
11. AC-1
12. RHB-1 @ +18" ABV. FIN. FLR.

ENLARGED PLUMBING FLOOR PLAN

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

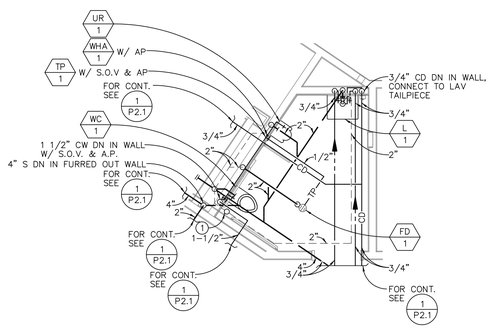


CONSTRUCTION KEY NOTES:

1. 2" W UP
2. FS-1
3. 4" S UP
4. 4" CONCENTRIC VENT INTAKE & EXHAUST UP
5. 3/4" HW UP
6. 3/4" CW UP
7. 1-1/2" CW DN IN WALL W/ S.O.V. & A.P.
8. P.O.C. 1-1/4" G TO WATER HEATER W/G.C.(150 CFH)

ENLARGED PLUMBING FLOOR PLAN

SCALE 1/4"=1'-0" | 2



CONSTRUCTION KEY NOTES:

1. 2" V UP IN WALL ABV.

ENLARGED PLUMBING FLOOR PLAN

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

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COASTSIDE FIRE PROTECTION DISTRICT

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TRUE NORTH

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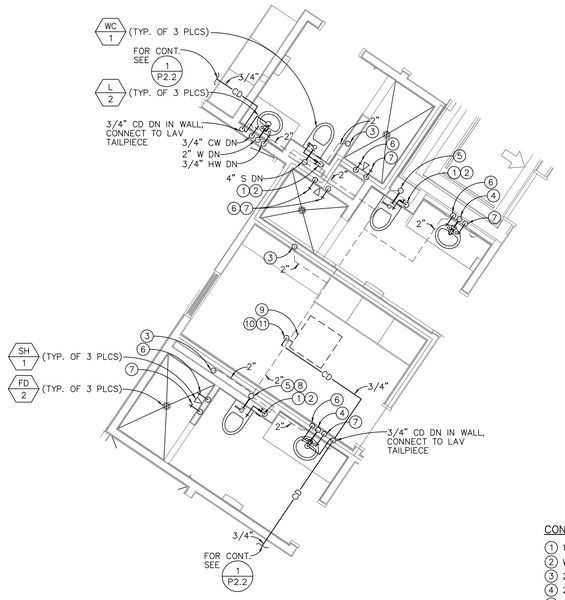
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4	PLANCHECK #4 RESPONSE	07/24/2026
6	ADDENDUM #6	10/23/2026

PLUMBING ENLARGED PLANS

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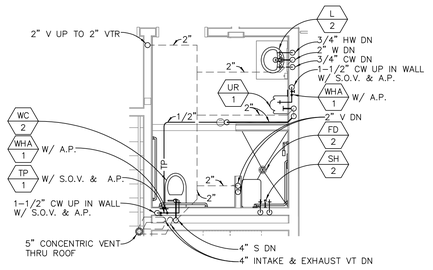
P4.1



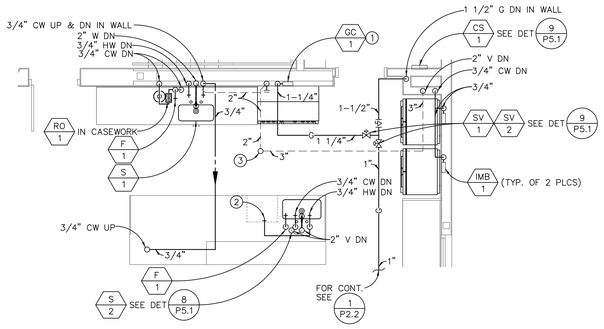
CONSTRUCTION KEY NOTES:

1. 1-1/2" CW DN IN WALL W/ S.O.V. & A.P.
2. WHA-1 W/A.P.
3. 2" V DN
4. 2" W DN
5. 4" S DN
6. 3/4" HW DN
7. 3/4" CW DN
8. 2" V UP TO 3" VTR
9. FAN COIL UNIT ABOVE CEILING, SEE MECH. DWGS. FOR EXACT LOCATION.
10. P.O.C. 3/4" CD TO CONDENSATE PUMP IN CLG.
11. CONDENSATE PUMP PROVIDED BY MECHANICAL CONTRACTOR.

ENLARGED PLUMBING FLOOR PLAN | SCALE 1/4"=1'-0" | 4



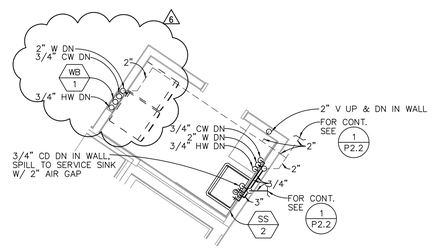
ENLARGED PLUMBING FLOOR PLAN | SCALE 1/4"=1'-0" | 2



CONSTRUCTION KEY NOTES:

1. P.O.C. 1-1/4" GAS TO RANGE (165 CFH) WITH GAS COCK.
2. DISHWASHER ROUGH-IN & CONNECTION 1/2" HOT WATER WITH S.O.V. & 3/4" HOSE WASTE THRU COUNTER MOUNTED AIR GAP FITTING TO GARBAGE DISPOSER.
3. 3" V UP TO 3" VTR

ENLARGED PLUMBING FLOOR PLAN | SCALE 1/4"=1'-0" | 3



ENLARGED PLUMBING FLOOR PLAN | SCALE 1/4"=1'-0" | 1

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230137
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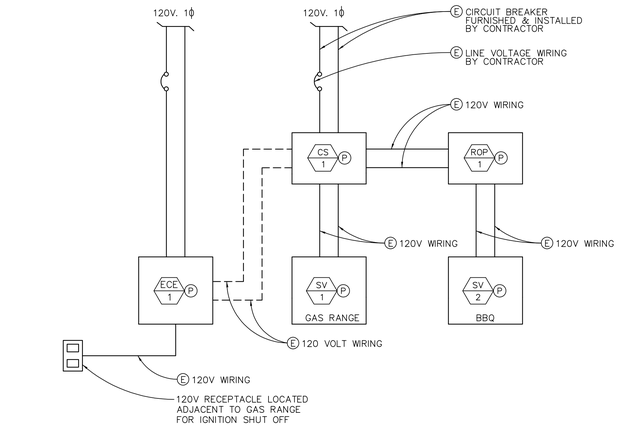
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6	ADDENDUM #6	10/22/2026

PLUMBING ENLARGED PLANS

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P4.2

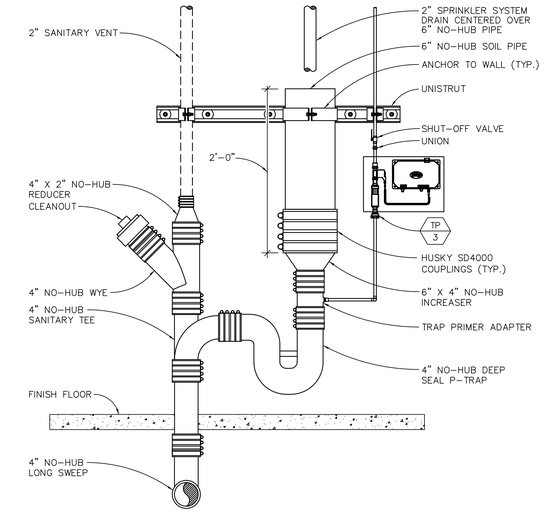


(E) ITEM INDICATED ON THE ELECTRICAL DRAWING AND SPECIFIED IN THE ELECTRICAL SECTIONS OF THE SPECIFICATION.

(P) ITEM INDICATED ON THE PLUMBING DRAWING AND SPECIFIED IN THE PLUMBING SECTIONS OF THE SPECIFICATION.

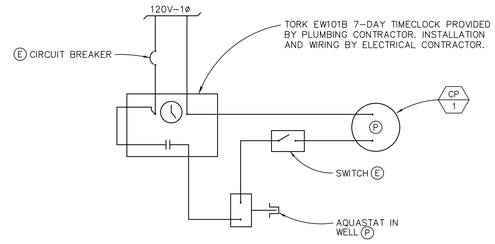
SOLENOID VALVE WIRING DETAIL

SCALE: NONE — 9



HUB DRAIN DETAIL

SCALE: NONE — 6



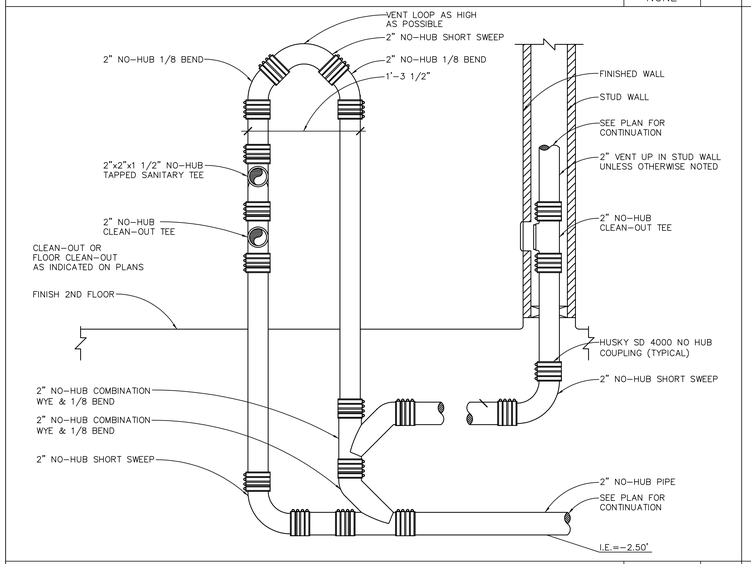
NOTE: ALL CONDUIT AND WIRING SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.

(E) ITEM INDICATED ON THE ELECTRICAL DRAWING AND SPECIFIED IN THE ELECTRICAL SECTIONS OF THE SPECIFICATION.

(P) ITEM INDICATED ON THE PLUMBING DRAWING AND SPECIFIED IN THE WATER HEATER DETAILS.

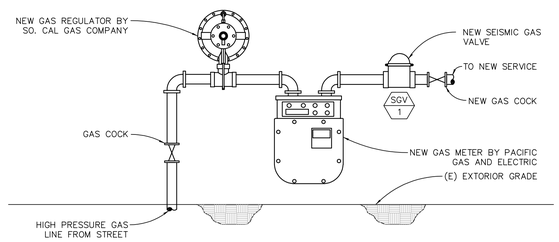
CIRC. PUMP WIRING DIAGRAM

SCALE: NONE — 3



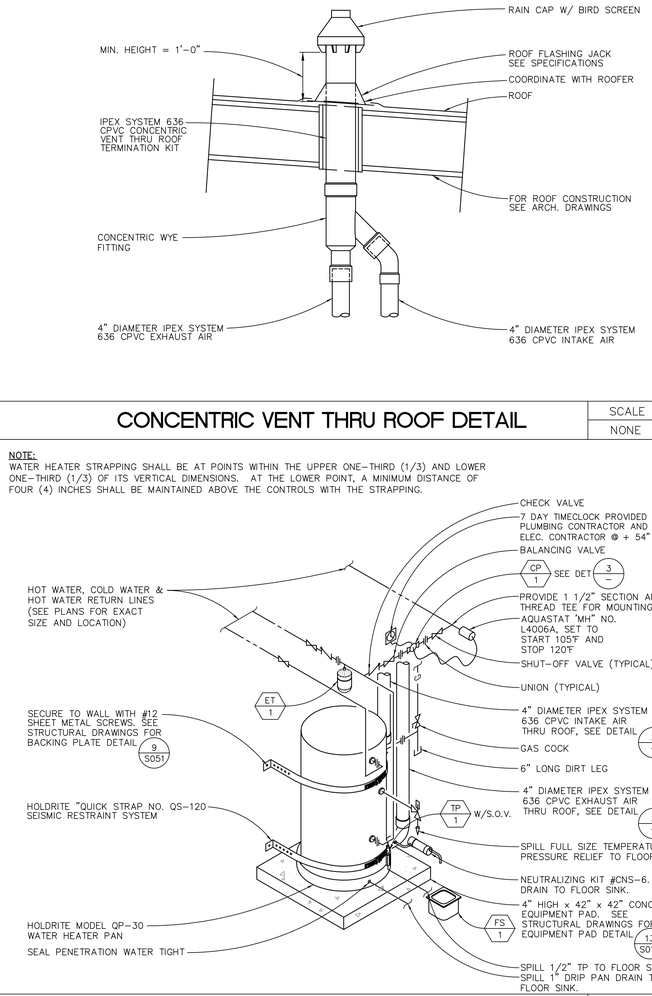
ISLAND VENT DETAIL

SCALE: NONE — 8



SEISMIC GAS VALVE DETAIL

SCALE: NONE — 5

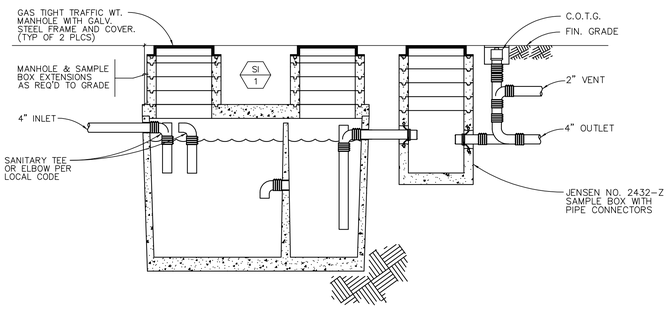


CONCENTRIC VENT THRU ROOF DETAIL

SCALE: NONE — 2

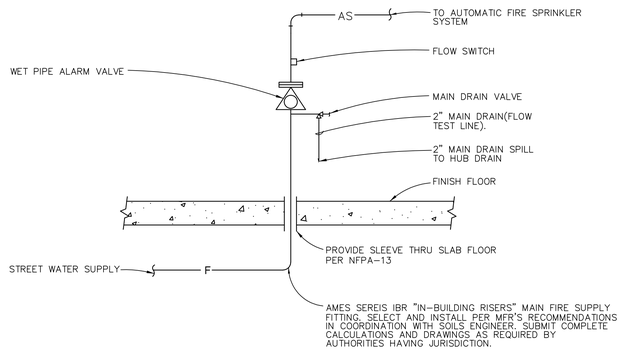
NOTES:

1. ENTIRE INSTALLATION SHALL CONFORM TO THE MANUFACTURERS RECOMMENDATIONS AND SHALL MEET LOCAL JURISDICTION SPECIFICATION AND STANDARDS.
2. SEE SHEET P1.1 FOR LOCATION OF SAND & OIL INTERCEPTOR.



SAND + OIL INTERCEPTOR

SCALE: NONE — 7



FIRE SPRINKLER RISER DETAIL

SCALE: NONE — 4

NOTE:
WATER HEATER STRAPPING SHALL BE AT POINTS WITHIN THE UPPER ONE-THIRD (1/3) AND LOWER ONE-THIRD (1/3) OF ITS VERTICAL DIMENSIONS. AT THE LOWER POINT, A MINIMUM DISTANCE OF FOUR (4) INCHES SHALL BE MAINTAINED ABOVE THE CONTROLS WITH THE STRAPPING.

CONCENTRIC VENT WATER HEATER W/CIRC. PUMPDETAIL

SCALE: NONE — 1

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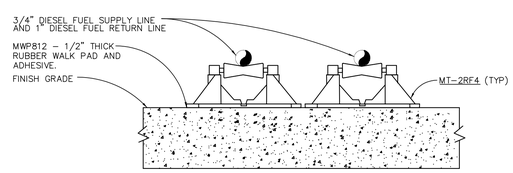
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5	ADDENDUM #5	10/23/2026
6	ADDENDUM #6	10/23/2026

PLUMBING DETAILS

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P5.1



NOTE:
SUPPORTS TO BE AT INTERVALS NOT TO EXCEED THOSE SHOWN ON TABLE 313.1 OF THE 2022 CALIFORNIA PLUMBING CODE.

PIPE STRAPPING DETAIL

SCALE: NONE

1

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PLUMBING DETAILS

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GENERAL NOTES

1. THE CONTRACTOR SHALL SECURE AND PAY FOR PERMITS AND FEES NECESSARY FOR EXECUTION AND COMPLETION OF ELECTRICAL WORK, INCLUDING ALL CHARGES BY THE LOCAL GOVERNMENT AGENCIES.
2. ALL OUTLET LOCATIONS SHALL BE COORDINATED WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION.
3. THIS CONTRACTOR SHALL SUPPLY POWER TO AND MAKE CONNECTION TO ALL MOTORS AND EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS AS SHOWN ON THE MECHANICAL AND PLUMBING DRAWINGS, INCLUDING ALL FRACTIONAL HORSEPOWER MOTORS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE MECHANICAL AND PLUMBING DRAWINGS FOR DUCTS, LINES AND EQUIPMENT.
4. SEE SINGLE LINE DIAGRAM FOR CONDUIT AND CONDUCTOR SIZES, PANELS, MECHANICAL EQUIPMENT, ETC. HOMERUNS TO PANELS MAY NOT BE SHOWN ON PLANS BUT ARE A PART OF THIS CONTRACT.
5. EXACT LOCATION OF ALL CEILING MOUNTED DEVICES SHALL BE AS INDICATED ON THE ARCHITECTURAL REFLECTED CEILING PLANS.
6. UNLESS OTHERWISE NOTED, OR REQUIRED BY ADA MOUNTING HEIGHTS INDICATED ON ELECTRICAL OUTLETS ARE FROM FINISHED FLOOR TO CENTER OF OUTLETS.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CUT-OUTS IN TILE OR COUNTER SPLASHES WHERE RECEPTACLES, OUTLETS, ETC., OCCUR.
8. ALL RECESSED DEVICES, ETC., MOUNTED IN FIRE RATED CEILING SHALL BE ENCLOSED WITH AN APPROVED ENCLOSURE CARRYING THE SAME FIRE RATING AS THE CEILING.
9. ALL SURFACE MOUNTED LIGHTING FIXTURES SHALL BE APPROVED FOR DIRECT MOUNTING ON LOW DENSITY COMBUSTIBLE CEILINGS.
10. THE NUMERAL(S) SHOWN AT TOP LIGHT FIXTURE IDENTIFICATION SYMBOL WHICH INDICATES NUMBER OF LIGHT FIXTURES REQUIRED SHALL NOT BE USED BY THE CONTRACTOR FOR HIS QUANTITY TAKE-OFF AT BIDDING OR FOR DETERMINATION OF HOW MANY FIXTURES SHALL BE INSTALLED. THE CONTRACTOR SHALL INSTALL A LIGHT FIXTURE WHEREVER A FIXTURE OUTLET IS SHOWN ON DRAWINGS.
11. NO CONDUIT SHALL BE RUN HORIZONTALLY IN CONCRETE FLOOR SLABS.
12. ALL WIRING AND ELECTRICAL EQUIPMENT INSTALLED FOR MECHANICAL AND PLUMBING EQUIPMENT SHALL BE IN ACCORDANCE WITH THESE DRAWINGS AND THE WIRING DIAGRAMS OF THE MECHANICAL AND PLUMBING DRAWINGS.
13. ALL FINAL CONNECTIONS TO OWNER-FURNISHED EQUIPMENT SHALL BE MADE BY THE CONTRACTORS.
14. MEP COMPONENT ANCHORAGE NOTE

    ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE (5) APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 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 120/220 VOLT RECEPTACLES HAVING 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 REFERENCE 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.

    FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN (4) GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

    MEP DISTRIBUTION SYSTEM BRACING NOTE FOR PIPING, DUCTWORK, AND ELECTRICAL CONDUIT

    PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7 SECTION 13.3 AS DEFINED IN ASCE 7 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2022 CBC SECTIONS 1617A.1.24, 1617A.1.25, AND 1617A.2.6.

    THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED (6) DISTRIBUTION SYSTEMS ARE AS NOTED BELOW

    MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEM (E):

    MP ☐ MD ☐ PP ☐ E ☒ - OPTION 1: PROJECT-SPECIFIC DESIGN.

    MP ☐ MD ☐ PP ☐ E ☐ - OPTION 2: DESIGN BASED ON OSHPD OPM, WITHIN PROJECT SUBMITTAL.

    MP ☐ MD ☐ PP ☐ E ☐ - OPTION 3: DESIGN BASED ON OSHPD OPM, DEFERRED SUBMITTAL.

15. THE CONTRACTOR SHALL VISIT THE SITE INCLUDING SPECIFICALLY ALL AREAS INDICATED ON THE DRAWINGS. HE SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THESE EXISTING CONDITIONS AND BY SUBMITTING A BID ACCEPTS CONDITIONS UNDER WHICH HE WILL BE REQUIRED TO PERFORM HIS WORK.
16. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DO ALL CORING, CUTTING, PATCHING AND REFINISHING OF WALLS AND SURFACES WHEREVER IT IS NECESSARY FOR HIM TO PENETRATE FOR HIS WORK. ALL OPENINGS MADE SHALL BE SEALED TO MEET THE RATED INTEGRITY OF THE PARTICULAR WALL, FLOOR OR CEILING.
17. ATTENTION IS CALLED TO THE FACT THAT THE CEILING SYSTEMS FOR THE MOST PART ARE CONSIDERED TO BE INACCESSIBLE. THE CONTRACTOR SHALL STRATEGICALLY LOCATE BOXES, ETC., IN AN ACCESSIBLE CEILING SPACE.
18. WHERE EXPOSED CONDUIT IS PERMITTED BY THE ARCHITECT, SUCH CONDUIT SHALL BE PAINTED TO MATCH FINISH OF SURFACE TO WHICH IT IS ATTACHED/SUPPORTED TO.
19. INSTALL RACEWAY SYSTEMS AS FOLLOWS:

    A. RIGID GALVANIZED STEEL IN ALL OUTDOOR LOCATIONS AND IN INDOOR LOCATIONS WHERE SUBJECT TO PHYSICAL DAMAGE.

    B. I.M.C. OR E.M.T. IN ALL INDOOR AREAS.

    C. FLEXIBLE METAL CONDUIT TO LIGHT FIXTURES, MOTORS AND VIBRATING ELECTRICAL EQUIPMENT IN A WHIP 6' OR LESS APPLICATION ONLY. NO RUNS ANYWHERE INCLUDING WOOD FRAMING. ANY WEARYING FROM THAT SHOULD REQUIRE AN APPROVAL FROM BUILDINGS.

    D. PVC CONDUIT FOR UNDERGROUND RUNS, USE 20 MIL PVC TAPED RIGID STEEL RISER ELBOWS AND RISERS FOR CONDUIT STUB-UPS.

    E. USE COMPRESSION TYPE FITTINGS FOR ALL METALLIC CONDUIT.

    F. 1" CONDUIT MINIMUM FOR UNDERGROUND INSTALLATIONS, 3/4" MIN. ABOVE GROUND.

    G. NO MC CABLE ALLOWED.

20. CONDUIT ROUTING INDICATED ON THESE PLANS IS DIAGRAMMATIC. ACTUAL ROUTING OF CONDUITS SHALL BE COORDINATED IN THE FIELD TO AVOID INTERFERENCE WITH OTHER UTILITIES AND TRADES. THE CONTRACTOR SHALL INSTALL ALL CONDUIT, JUNCTION/PULL BOXES, ETC., AS REQUIRED FOR A COMPLETE SYSTEM IN FULL COMPLIANCE WITH ALL APPLICABLE CODES.
21. ALL EXTERIOR MOUNTED EQUIPMENT SHALL BE WEATHERPROOF OR PROVIDED IN A WEATHERPROOF ENCLOSURE.
22. ALL POWER AND LIGHTING BRANCH CIRCUITS SHALL BE INSTALLED WITH A #12 GREEN GROUND WIRE U.O.N. THE COMPLETE ELECTRICAL SYSTEM SHALL BE GROUNDED IN ACCORDANCE WITH ARTICLE 250 OF THE CALIFORNIA ELECTRICAL CODE (CEC).
23. IDENTIFICATION NAME PLATES FOR BRANCH CIRCUIT PANELS SHALL MATCH THE NOMENCLATURE PROVIDED BY THE OWNER AT THE END OF THE CONTRACT.
24. UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBER SHALL BE CUT, DRILLED, NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER.
25. ALL ELECTRICAL EQUIPMENT SHALL BE LISTED AND LABELED FOR THEIR USE.
26. WHERE MORE THAN ONE NOMINAL VOLTAGE SYSTEM EXISTS IN A BUILDING, EACH UNDERGROUND SYSTEM CONDUCTOR SHALL BE IDENTIFIED BY PHASE AND SYSTEM. THE MEANS OF IDENTIFICATION SHALL BE PERMANENTLY POSTED AT EACH BRANCH CIRCUIT PANELBOARD. THE PHASE COLOR CODING OF THE INSULATION OF CONDUCTORS SHALL BE: A) BROWN-ORANGE-YELLOW FOR 480/277-VOLTS, B) BLACK-RED-BLUE FOR 208/120-VOLTS.
27. (7) PROVIDE THE SHORT CIRCUIT CURRENT RATING OF THE ELECTRICAL SERVICE IN A LETTER FROM PG&E TO THE PANELBOARD(S) AND/OR CIRCUIT BREAKERS SHALL MEET OR EXCEED THE S.C.C. RATING. A POINT-TO-POINT GROUND-FAULT AND SHORT-CIRCUIT CALCULATIONS MAY BE REQUIRED TO SUBSTANTIATE THE RATINGS OF THE ELECTRICAL EQUIPMENT.
28. ALL CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF THE ROOM OR AREA TO CONTROL LIGHTING AND RECEPTACLE OUTLETS, APPLIANCES OR COOLING, HEATING AND VENTILATING EQUIPMENT, SHALL LOCATED NO MORE THAN 48 INCHES MEASURED FROM THE TOP OF THE JUNCTION OR DEVICE BOX NOR LESS THAN 15 INCHES MEASURED TO THE BOTTOM OF THE JUNCTION OR DEVICE BOX ABOVE THE FINISHED FLOOR.
29. ALL RECEPTACLES OUTLETS ON BRANCH CIRCUITS OF 30-AMPERES OR LESS AND COMMUNICATION SYSTEM RECEPTACLES SHALL BE LOCATED NO MORE THAN 48 INCHES MEASURED FROM THE TOP OF THE RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING NOR LESS THAN 18 INCHES MEASURED TO THE BOTTOM OF THE RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING ABOVE THE FINISHED FLOOR.
30. LIGHTING FIXTURES INSTALLED IN A SUSPENDED CEILING SHALL BE FASTENED TO THE CEILING FRAMING MEMBER AT ALL FOUR CORNERS WITH SCREWS AND ATTACHED #12 CEILING WIRES TO THE LIGHT FIXTURE AT DIAGONALLY OPPOSITE CORNERS AND TO THE STRUCTURAL CEILING.
31. ALL CONDUCTOR TO BE COPPER, TYPE THUN/THHN OR XHHW (75/90 DEGREES C).
32. ALL EQUIPMENT TO BE U.L. LISTED OR EQUIVALENT.
33. PROVIDE ACCESS PANELS.
34. EMERGENCY LIGHTING FACILITIES SHALL BE ARRANGED TO PROVIDE INITIAL ILLUMINATION THAT IS AT LEAST AN AVERAGE OF 1 FOOTCANDLE (11 LUX) AND A MINIMUM AT ANY POINT OF 0.1 FOOTCANDLE (1 LUX) MEASURED ALONG THE PATH OF EGRESS AT FLOOR LEVEL. ILLUMINATION LEVELS SHALL BE PERMITTED TO DECLINE TO 0.06 FOOT CANDLE (.6 LUX) AVERAGE AND A MINIMUM AT ANY POINT OF 0.006 FOOT CANDLE (0.6 LUX) AT THE END OF THE EMERGENCY LIGHTING TIME DURATION. A MAXIMUM-TO-MINIMUM ILLUMINATION UNIFORMITY RATIO OF 40 TO 1 SHALL NOT BE EXCEEDED. SECTION 1006.3.1 CFC
35. THE MEANS OF EGRESS ILLUMINATION LEVEL SHALL NOT BE LESS THAN 1 FOOT CANDLE (11 LUX) AT THE WALKING SURFACE LEVEL. IN THE EVENT OF POWER SUPPLY FAILURE, AN EMERGENCY ELECTRICAL SYSTEM SHALL AUTOMATICALLY ILLUMINATE THE FOLLOWING AREAS:

    A. AISLES AND UNENCLOSED EGRESS STAIRWAYS IN ROOMS AND SPACES THAT REQUIRE TWO OR MORE MEAN OF EGRESS.

    B. CORRIDORS, EXIT ENCLOSURES AND EXIT PASSAGEWAYS IN BUILDINGS REQUIRED TO HAVE TWO OR MORE EXITS.

    C. EXTERIOR EGRESS COMPONENTS AT OTHER THAN THE LEVEL OF EXIT DISCHARGE UNTIL EXIT DISCHARGE IS ACCOMPLISHED FOR BUILDINGS REQUIRED TO HAVE TWO OR MORE EXITS.

    D. INTERIOR EXIT DISCHARGE ELEMENTS, AS PERMITTED IN SECTION 1024.1, IN BUILDINGS REQUIRED TO HAVE TWO OR MORE EXITS.

    E. EXTERIOR LANDINGS, AS REQUIRED BY SECTION 1008.1.5, FOR EXIT DISCHARGE DOORWAYS IN BUILDINGS REQUIRED TO HAVE TWO OR MORE EXITS.

    F. THE EMERGENCY POWER SYSTEM SHALL PROVIDE POWER FOR DURATION OF NOT LESS THAN 90 MINUTES AND SHALL CONSIST OF STORAGE BATTERIES, UNIT EQUIPMENT OR AN ON-SITE GENERATOR. THE INSTALLATION OF THE EMERGENCY POWER SYSTEM SHALL BE IN ACCORDANCE WITH SECTION 2702.

36. LIGHTING AT EXTERIOR DOORWAYS SHALL BE MAINTAINED AT A MINIMUM OF 1 FOOT CANDLE AT GROUND WITH VANDAL PROOF LENSES.
37. ELECTRIC CIRCUITS SERVING CONTROLLED RECEPTACLES SHALL BE EQUIPPED WITH AUTOMATIC SHUT-OFF CONTROLS FOLLOWING THE REQUIREMENTS PRESCRIBED IN SECTION 130.1(c) (1 THROUGH 5), AND AT LEAST ONE CONTROLLED RECEPTACLE TO BE INSTALLED WITHIN 6 FEET FROM EACH UNCONTROLLED RECEPTACLE OR A SPLIT WIRED DUPLEX RECEPTACLE WITH ONE CONTROLLED AND ONE UNCONTROLLED RECEPTACLE SHALL BE INSTALLED, AND CONTROLLED RECEPTACLES SHALL HAVE A PERMANENT MARKING TO DIFFERENTIATE THEM FROM UNCONTROLLED RECEPTACLES, AND FOR OPEN OFFICE AREAS, CONTROLLED CIRCUITS SHALL BE PROVIDED AND MARKED TO SUPPORT INSTALLATION AND CONFIGURATION OF OFFICE FURNITURE WITH RECEPTACLES THAT COMPLY WITH SECTION 130.5(c)1, 2, AND 3.
38. CONTRACTOR TO PROVIDE ENGRAVED LABELING AT EACH RECEPTACLE, DATA OUTLET, JUNCTION BOX, DISCONNECT SWITCH, ECT. DISPLAYING THE IDF OR PANEL (WITH CIRCUIT) FEEDING THE DATA OUTLET, RECEPTACLE, JUNCTION BOX, DISCONNECT SWITCH, ECT.

REFERENCES & ABBREVIATIONS

(1)	DETAIL REFERENCE	MCB	MAIN CIRCUIT BREAKER
[1]	KEYNOTE REFERENCE	FLA	FULL LOAD AMPS
A.F.F.	ABOVE FINISH FLOOR	C.	CONDUIT
U.O.N.	UNLESS OTHERWISE NOTED	V.	VOLTS
C.O.	CONDUIT ONLY W/PULL ROPE	A	AMPS
WP	WEATHER PROOF	GFI	GROUND FAULT INTERRUPTER
CU.	COPPER	GND	GROUND
M.L.O.	MAIN LUGS ONLY	V.L.	VERIFY LOCATION
E or (E)	EXISTING TO REMAIN	A.C.	ABOVE COUNTER
		N.L.	NIGHT LIGHT
		EM.	EMERGENCY

APPLICABLE CODES

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LAWS AND REGULATIONS, AND THE REQUIREMENTS OF THE CALIFORNIA CODE OF REGULATIONS (C.C.R.), TITLE 24, INCLUSIVE OF:

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 C.C.R.

2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R. (2021 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2022 CALIFORNIA AMENDMENTS)

2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. (2020 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)

2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.

2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 C.C.R. (2018 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 C.C.R.

2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 C.C.R.

TITLE 19 C.C.R. PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

2019 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATOR

NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED) 2016 ED.

NFPA 80 - STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES 2020 ED.

APPLICABLE REQUIREMENTS OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD).

FIRE ALARM DEFERRED APPROVAL NOTE

THE FIRE ALARM SYSTEM IS A DEFERRED APPROVAL ITEM AND THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO SUBMIT PLANS, EQUIPMENT DATA SHEETS/LISTINGS, WIRING DIAGRAMS AND CALCULATIONS TO THE CITY OF COASTSIDE FIRE DEPARTMENT FOR REVIEW AND APPROVAL. THE (8) CONTRACTOR SHALL OBTAIN APPROVAL FROM THE CITY OF COASTSIDE FIRE DEPARTMENT PRIOR TO INSTALLING THE FIRE ALARM SYSTEM COMPONENTS.

FIRE ALARM SYSTEM DEVICES AND COMPONENTS INDICATED ON THE DRAWINGS ARE THE MINIMUM REQUIREMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE QUANTITY AND TYPE OF DEVICES REQUIRED BY THE CITY OF COASTSIDE FIRE DEPARTMENT AT NO ADDITIONAL COST TO THE CONTRACT.

(9) THE FIRE ALARM SYSTEM DRAWINGS SHALL BEAR THE STAMP AND SIGNATURE OF A STATE OF CALIFORNIA PROFESSIONAL ELECTRICAL ENGINEER.

SYMBOL LIST

- CONDUIT RUN, CONCEALED IN CEILING, WALLS OR UNDER FLOOR 3/4" MIN.
- CONDUIT RUN, UNDERGROUND.
- CONDUIT STUBBED OUT AND CAPPED. PULL LINE IN PLACE.
- FLEXIBLE CONDUIT. SEALTITE WHERE EXPOSED TO WEATHER. REFER TO SPECIFICATIONS FOR USE.
- CONDUIT TURNED DOWN.
- CONDUIT TURNED UP.
- #10 — CROSS LINES ON CONDUIT RUNS INDICATE NUMBER OF #12 WIRES CONTAINED THEREIN, TWO #12 ARE TO BE PROVIDED WHEN CROSS LINES ARE NOT SHOWN. NUMERALS ADJACENT TO CROSS LINES ON CONDUIT RUNS INDICATE SIZE OF CONDUCTORS IN LIEU OF #12. PROVIDE CONDUIT SIZE AS REQUIRED TO ACCOMMODATE THE WIRE SIZE TO BE CONTAINED THEREIN.
- B-1,3 — CONDUIT HOME RUN TO PANELBOARD. LETTER AND NUMERALS INDICATES ELECTRICAL PANEL AND CIRCUIT NUMBER.
- CAT 5 CABLE IN DEDICATED CONDUIT.
- DW — 3/4"C. WITH 2/C#8 CLASS 2 DATA WIRE PER SWITCH LEG (DIMMING CONTROLS). QUANTITY OF CROSS TICKS REPRESENT QUANTITY OF SWITCH LEGS WITHIN CONDUIT.
- RECESSED MOUNTED BRANCH CIRCUIT PANEL. OUTDOOR TO BE NEMA 3R.
- SURFACE MOUNTED BRANCH CIRCUIT PANEL. OUTDOOR TO BE NEMA 3R.
- MOLDED CASE CIRCUIT BREAKER (SINGLE LINE DIAGRAM).
- AT — CIRCUIT BREAKER AMPERE TRIP RATING (SINGLE LINE DIAGRAM).
- GROUND.
- (M) — UTILITY METER AND SOCKET (SINGLE LINE DIAGRAM).
- WP — WEATHERPROOF.
- DUPLEX RECEPTACLE, FLUSH IN WALL, GROUNDING TYPE (20 AMP, 120V., WALL PLATE TO MATCH DEVICE) MTD. AT +18".
- DOUBLE DUPLEX RECEPTACLE, FLUSH IN WALL (20 AMP, 120 V. WALL PLATE TO MATCH DEVICE) MTD. AT +18".
- GFI — DUPLEX RECEPTACLE, WITH GROUND FAULT INTERRUPTER (20 AMP, 120V., 3W, WALL PLATE TO MATCH DEVICE) MTD. AT +18".
- SPECIALTY RECEPTACLE/OUTLET, COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT VENDOR/SUPPLIER. WHERE A RECEPTACLE IS REQUIRED PROVIDE COMPLETE WITH STAINLESS STEEL WALL PLATE AND VOLTAGE, AMPERE RATING AND CONFIGURATION TO MATCH VENDOR SUPPLIED PLUG. WHERE HARD WIRED CONNECTION IS REQUIRED PROVIDE STAINLESS STEEL WALL PLATE WITH GROMMET and SEAL-TITE FLEXIBLE CONDUIT AND CONDUCTORS FOR FINAL CONNECTION TO THE VENDOR SUPPLIED EQUIPMENT. MTD. AT +18".
- DOUBLE DUPLEX GROUNDING RECEPTACLE FLUSH IN FLOOR. PROVIDE COMPLETE WITH FULLY ADJUSTABLE 2-GANG FLOOR BOX, COLLAR ASSEMBLY, CARPET FLANGE AND BRASS COVERS, WIREMOLD OMNIBOX 880 SERIES OR APPROVED EQUAL.
- CEILING MOUNTED CORD REEL 20 AMP CABLE REEL SHALL CONSIST OF A HEAVY DUTY REEL WITH 50' FOOT LONG 3-CONDUCTOR #10 TYPE SJEOOW CORD/CABLE AND CONNECTOR TO MATCH THE ENGINE AUTO ELECT. REELCRAFT ¶ 5550-123-X REEL AND KUSS#AUK #5-20P-14 CONNECTOR. PROVIDE 20A, 120V. FLUSH MOUNTED CEILING RECEPTACLE TO PROVIDE POWER TO THE REEL.
- H-O-A — COMBINATION FUSED DISCONNECT SWITCH AND MAGNETIC MOTOR STARTER. ROMAN NUMERAL INDICATES THE STARTER SIZE. H-O-A INDICATES DOOR MOUNTED HAND-OFF-AUTO SELECTOR SWITCH. FUSES AND OVERLOADS SHALL BE SIZED PER THE EQUIPMENT NAME PLATE.
- _AS/_P — DISCONNECT SWITCH. HEAVY DUTY TYPE WITH REQUIRED. AS=SWITCH AMPERE RATING. P=NUMBER OF POLES.
- 2/Ø — DATA OUTLET WITH OPEN-BACKED 4" SQUARE BACKBOX AND (1) 3/4"C. STUB-UP INTO THE ACCESSIBLE CEILING MOUNTED AT +18" A.F.F.-U.O.N. U+48" A.F.F. FIRST NUMERAL INDICATES QUANTITY OF "CAT 6" DATA CABLE DROPS TO BE PROVIDED AND TERMINATED. SECOND NUMERAL INDICATES QUANTITY OF "CAT 6" VOICE CABLE DROPS TO BE PROVIDED AND TERMINATED. THIRD NUMERAL INDICATES QUANTITY OF BLANK POSITIONS TO BE PROVIDED ON THE WALL PLATE. QUANTITY OF "RJ45" CONNECTORS TO BE PROVIDED SHALL MATCH THE QUANTITY OF CABLE DROPS.
- GAP — GENERATOR REMOTE ALARM PANEL
- EPO — REMOTE EMERGENCY SHUT-OFF PUSH BUTTON, MANUAL RE-SET TYPE WITH MUSHROOM HEAD OPERATOR. PROVIDE IN WEATHERPROOF ENCLOSURE. MOUNT AT +48" TO TOP OF BOX.
- ES — EMERGENCY SHUT-OFF PUSH BUTTON, MANUAL RE-SET TYPE WITH MUSHROOM HEAD OPERATOR. PROVIDE IN WEATHERPROOF ENCLOSURE. MOUNT ON GENERATOR ENCLOSURE AT +48"TO TOP OF BOX.
- K — SECURITY KEY PAD IDENTIFICATION SYMBOL.
- AC 1 — HVAC EQUIPMENT DESIGNATION. SEE MECHANICAL PLANS.
- J — JUNCTION BOX.
- LED STRIP LIGHT FIXTURES. SHADING INDICATES FIXTURE WITH EMERGENCY BATTERY PACK.
- POLE MOUNTED AREA LIGHTING FIXTURE
- LED LIGHT FIXTURE. SHADING INDICATES FIXTURE TO BE PROVIDED WITH EMERGENCY BATTERY PACK.
- WALL MOUNTED LED SCONCE FIXTURE. SHADING INDICATES FIXTURE TO BE PROVIDED WITH EMERGENCY BATTERY PACK.
- CEILING MOUNTED PENDANT FIXTURE. SHADING INDICATES FIXTURE WITH EMERGENCY BATTERY PACK.
- SLOT RECESSED LED FIXTURE
- BOLLARD LED FIXTURE
- OS — AUTOMATIC LIGHTING CONTROL SYSTEM OCCUPANT SENSOR, CEILING MOUNTED.
- DS — AUTOMATIC LIGHTING CONTROL SYSTEM DAYLIGHT SENSOR, CEILING MOUNTED.
- CEILING OR PENDANT MOUNTED LIGHT FIXTURE. SHADING INDICATES LIGHT FIXTURE WITH EMERGENCY BATTERY PACK.
- LV.* — BUILDING LIGHTING SHUT-OFF CONTROL SYSTEM LOW VOLTAGE BY-PASS SWITCH. NUMERAL INDICATES THE ZONE CONTROLLED.
- CEILING / WALL-SWITCH — DUAL TECHNOLOGY OCCUPANT SENSOR WITH 2000 SQUARE FOOT COVERAGE. COORDINATE EXACT LOCATION IN THE FIELD WITH THE SENSOR MANUFACTURER TO ENSURE OPTIMUM SENSOR OPERATION. COVERAGE TO BE DETERMINED BY THE SENSOR APPLICATION INDICATED ON PLAN. PROVIDE SLAVE-PACK WHERE TWO CIRCUITS ARE TO BE CONTROLLED. PROVIDE TWO-CIRCUIT (SP) TYPE WALL-SWITCH TYPE SENSOR WHERE INDICATED ON PLAN. WALL SWITCH SENSOR SHALL BE WATT-STOPPER #WU-200 COLOR AS SELECTED BY THE ARCHITECT. CEILING SENSOR SHALL BE WATT-STOPPER #DT-355.
- CEILING MOUNTED PENDANT DECORATIVE FIXTURE.
- CEILING MOUNTED PENDANT DECORATIVE FIXTURE.
- EXIT SIGN.
- TV — TV SYSTEM WALL-TAP WITH 4" SQUARE BACKBOX AND 3/4" CONDUIT STUB-UP INTO CEILING SPACE.
- WAP — WIRELESS ACCESS POINT
- A — AQUA STAT
- TC — TIME CLOCK
- AV — AUDIO VISUAL OUTPUT FOR GEST ELECTRONIC DEVICES.
- S_m — MANUAL MOTOR STARTER WITH THERMAL OVERLOAD. RATING AND NUMBER OF POLES PER THE EQUIPMENT NAMEPLATE DATA.
- A 3 +20'-0" — LIGHTING FIXTURE IDENTIFICATION SYMBOL. LETTER INDICATES TYPE OF FIXTURE. NUMERAL AT TOP OF HEXAGON INDICATES NUMBER OF FIXTURES REQUIRED. NUMBER AT BOTTOM OF HEXAGON INDICATES MOUNTING HEIGHT FROM FLOOR TO BOTTOM OF FIXTURE. OMISSION OF MOUNTING HEIGHT INDICATES CEILING MOUNTING.
- $S_{\$}^{3}$ — SINGLE POLE SWITCH, LETTER AT BOTTOM INDICATES OUTLETS CONTROLLED. MOUNTED AT +48" TO TOP OF THE BOX. STAINLESS STEEL WALL PLATE. SUPERSCRIPT DENOTES:
  - 2 - DOUBLE POLE
  - 3 - THREE WAY
  - 4 - FOUR WAY
  - P - PILOT LIGHT
  - K - KEY OPERATED
  - T - TIMER
- (1) — ELECTRICAL NOTE CALLOUT.
- X E4X — ELECTRICAL DETAIL CALLOUT.
- T — THERMOSTAT. MOUNTED AT +48" A.F.F. TO TOP OF BOX. SEE MECHANICAL.
- SFD — SMOKE FIRE DAMPER. SEE MECHANICAL.

COMBINATION TELEPHONE/DATA OUTLET FLUSH IN FLOOR. PROVIDE COMPLETE WITH FULLY ADJUSTABLE 2-GANG FLOOR BOX, COLLAR ASSEMBLY, CARPET FLANGE AND BRASS COVERS. WIREMOLD OMNIBOX 880 SERIES OR APPROVED EQUAL. ROUTE AND TERMINATE TWO (2) "CAT 6" DATA CABLES AND ONE (1) "CAT 3" TELEPHONE CABLE. QUANTITY OF CONNECTORS TO MATCH QUANTITY OF CABLES.

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Not for permitting or construction

FIRE STATION #44
COASTSIDE FIRE PROTECTION DISTRICT
501 STETSON STREET
MOSS BEACH, CA 94038
100% CD SET

COASTSIDE FIRE PROTECTION DISTRICT EST. 2002

BID SET

KEY PLAN
PLAN NORTH
TRUE NORTH

REGISTERED PROFESSIONAL ENGINEER
RICHARD L. SUTFIN
No. 517329
6/30/26
STATE OF CALIFORNIA

CLIENT
COASTSIDE FIRE PROTECTION DISTRICT
PROJECT NUMBER
230137
DATE 2/14/2025
DRAWN BY: LS CHKED BY: RES

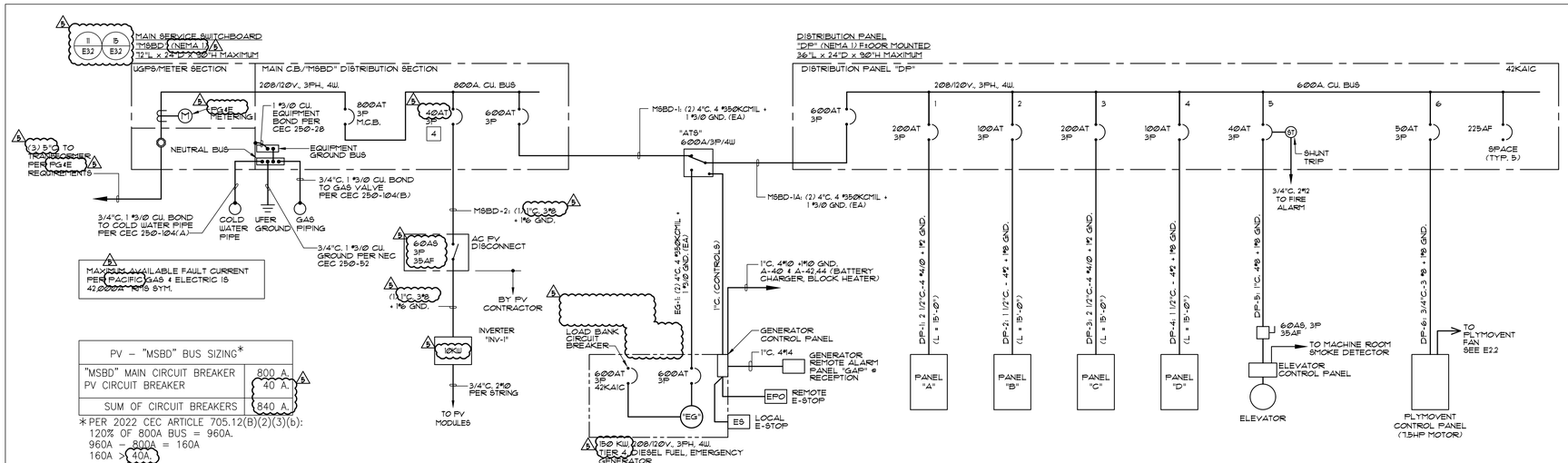
REVISIONS

#	DESCRIPTION	DATE
1	PLAN CHECK #1 RESPONSE	12/05/25
2	PLAN CHECK #2 RESPONSE	03/13/26
3	PLAN CHECK #3 RESPONSE	05/22/26
4	PLAN CHECK #4 RESPONSE	08/25/26
5	ADDENDUM #1	10/23/26

GENERAL NOTES AND SYMBOL LIST

This document is for plan review only

E0.1



PV – "MSBD" BUS SIZING*	
"MSBD" MAIN CIRCUIT BREAKER	800 A.
PV CIRCUIT BREAKER	40 A.
SUM OF CIRCUIT BREAKERS	840 A.

*PER 2022 CEC ARTICLE 705.12(B)(2)(3)(b):
120% OF 800A BUS = 960A.
960A − 800A = 160A
160A > 40A

SINGLE LINE DIAGRAM NOTES

1. THE MAIN CIRCUIT BREAKER SHALL BE PERMANENTLY MARKED TO IDENTIFY IT AS THE SERVICE DISCONNECT PER N.E.C. 230.70(B).
2. PER SECTION 250.52(A)(1) METAL UNDERGROUND WATER PIPE - CONNECTION TO THE INTERIOR METAL WATER PIPING SHALL BE MADE WITHIN 5 FEET FROM POINT OF ENTRANCE.
3. PROVIDE AND INSTALL SIGNAGE FOR AVAILABLE FAULT CURRENT PER CEC 110.24. PROVIDE SELF-ADHESIVE VINYL LABEL TO AFFIX TO ELECTRICAL EQUIPMENT TO WARN OF ARC FLASH HAZARDS. THE LABEL SHALL BE LOCATED ON THE EQUIPMENT TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT. CONTRACTOR TO PLACE COMPANY NAME AND CONTACT PHONE NUMBER ON SIGN. THIS DETAIL IS FOR REFERENCE ONLY.
4. CONTRACTOR TO ENSURE THAT THE UTILITY (PG&E) SERVICE REPORT SHALL BE AVAILABLE ON SITE AT ALL TIMES FOR BUILDING INSPECTION TO VERIFY.

CONSTRUCTION NOTES

1. ALL EQUIPMENT SHALL BE LISTED BY UL OR A COUNTY APPROVED THIRD PARTY TESTING FACILITY.
2. RESISTANCE TO GROUND SHALL NOT EXCEED 25 OHMS. PROVIDE ADDITIONAL GROUND RODS SPACED 6'-0" APART TO MEET THIS REQUIREMENT. SHEET E3.2, DETAIL 11 FOR ADDITIONAL REQUIREMENTS.
3. GROUND FAULT PROTECTION OF EQUIPMENT SHALL BE PROVIDED FOR SOLIDLY GROUNDED WYE ELECTRIC SERVICES OF MORE THAN 150 VOLTS TO GROUND BUT NOT EXCEEDING 1000 VOLTS PHASE-TO-PHASE FOR EACH SERVICE DISCONNECT RATED 1000 AMPERES OR MORE. GFPD IS REQUIRED TO HAVE PERFORMANCE TESTING AS DESCRIBED IN 230.95(C), 2019 CEC.
4. PV CIRCUIT BREAKER TO BE LOCATED AT THE OPPOSITE END OF THE BUS FROM THE MAIN CIRCUIT BREAKER.

3

⚠WARNING

MAXIMUM AVAILABLE FAULT CURRENT:
42,000 SYMMETRICAL RMS AMPERES
DATE: MM/DD/YYYY

XYZ ELECTRIC 1-800-123-4567

APPLICABLE CODES
ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LAWS AND REGULATIONS, AND THE REQUIREMENTS OF THE CALIFORNIA CODE OF REGULATIONS (CCR), TITLE 24, INCLUSIVE OF:
2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 C.C.R.
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24, C.C.R.
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
2022 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 C.C.R.
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 C.C.R.

PANEL "A" — VOLTAGE: 208/120V-4-WIRE; LOCATION: ELEC. ROOM; MAIN BREAKER: M.L.O.; BUS SIZE COPPER: 200A.; SCA: SERIES; MOUNT: SURFACE; ENTRY: BOTTOM

DESCRIPTION	CKT	BKR	P	LTS	REC	MSC	MTR	A-VA	B-VA	C-VA	AMPS
RMS 104, 103 RECEPTACLES	1	20	1		3			540			
RMS 104, 103 RECEPTACLES	3	20	1		3				540		
LOBBY 101 & RR 102 REC.	5	20	1		5					900	
RMS 104, 103 PLUG LOAD	7	20	1		3			540			
HALLWAY 110 RECEPTACLES	9	20	1		2				360		
HALLWAY 110 RECEPTACLES	11	20	1		3					540	
FITNESS 106 TREADMILL	13	20	1		1			500			
FITNESS 106 BIKE	15	20	1		1				500		
RMS 117, 115 RECEPTACLES	17	20	1		4					720	
RMS 117, 113 RECEPTACLES	19	20	1		3			540			
RMS 117 RECEPTACLES	21	20	1		4				720		
TELECOM BACKBOARD REC.	23	20	1		4					720	
APP. BAY RECEPTACLES	25	20	1		3			540			
APP. BAY RECEPTACLES	27	20	1		3				540		
WH-1	29	20	1		1					180	
FITNESS 106 RECEPTACLES	31	20	1		2			360			
LOW LEVEL NIGHT LIGHTS	33	20	1	9					27		
ELEVATOR SHAFT LTS & REC	35	20	1	2	2					420	
FITNESS 106 SUANA	37	20	1		1			1200			
EM POLE LIGHTS	39	20	1	3					1227		
EM POLE LIGHTS	41	20	1	3						1227	
ELEVATOR CAB LIGHTS	43	20	1	1				64			
ELEVATOR MACH. ROOM	45	20	1		1				180		
ELEVATOR VIDEO	47	20	1			1				500	
SPARE	49	20	1								
SPARE	51	20	1								
SPARE	53	20	1								
SUB TOTAL VOLTA/AMPS:								4284	4094	5207	
APP. BAY CORD REEL	2	20	1		1			750			
APP. BAY CORD REEL	4	20	1		1				750		
APP. BAY CORD REEL	6	20	1		1					750	
ROOF RECEPTACLE	8	20	1		1			180			
RM 122 GARBAGE DISPOSAL	10	30	1			1			1920		
BLOCKER HEATER	12	20	2			1				1500	
W/CKT. 42	14	—	—					1500			
TCAQUA STAT/CP-1	16	20	1			3			150		
GEN. BATTERY CHARGER	18	20	1			1				1200	
RMs 101 - 117 LIGHTS	20	20	1	34				981			
RM 115 GARBAGE DISPOSAL	22	30	1			1			1920		
ROLL-UP DOOR "RUD-1"	24	20	1			1				1680	
RM 115 COFFEE MAKER	26	20	1		1			1200			
LIGHTING CONTROL PANEL	28	20	1			1			500		
GATE OPERATOR	30	20	1			1				500	
FUEL DISPENSING SYSTEM	32	20	1			1		360			
SHUNT TRIP	34										
DRINKING FOUNTAIN	36	20	1			1				180	
ELEV MACH RM REC & LITE	38	20	1	1	1			210			
PETRONET PEDESTAL	40	20	1			1			360		
OVERFILL ALARM	42	20	1			2				200	
VEEDER-ROOT PANEL	44	20	1			1		360			
SPARE	46	20	1								
SPARE	48	20	1								
SPARE	50	20	1								
SPARE	52	20	1								
SPARE	54	20	1								
SUB TOTAL VOLTA/AMPS:								5541	5600	6010	
PANEL SUB TOTAL VOLTA/AMPS:								9825	9694	11217	
CONNECTED: 30736 VA								TOTAL VOLTA/PHASE:	245	314	412
25% OF MTR: VA								TOTAL AMPS/PHASE:	10070	10008	11629
25% OF LCL: 1023 VA									84	83	97
CALCULATED: 31759 VA = 88.15 AVERAGE AMPS											

PANEL "B" — VOLTAGE: 208/120V-4-WIRE; LOCATION: ELEC. ROOM; MAIN BREAKER: M.L.O.; BUS SIZE COPPER: 100A.; SCA: SERIES; MOUNT: RECESSED; ENTRY: BOTTOM

DESCRIPTION	CKT	BKR	P	LTS	REC	MSC	MTR	A-VA	B-VA	C-VA	AMPS
* RMS 212,206-208,210,211 REC.	1	20	1		4			720			
RMS 212,206-208,210,211 REC.	3	20	1		4				720		
RMS 212,206-208,210,211 REC.	5	20	1		4					720	
WASHER	7	20	1		1			500			
DRYER	9	30	2		1				750		
W/CKT. 9	11	—	—							750	
* RMs 201, 203-205 RECEPT.	13	20	1		4			720			
RMs 201, 203-205 RECEPT.	15	20	1		3				540		
* RMs 201, 203-205 RECEPT.	17	20	1		3					540	
RMs 212 & 213 RECEPT.	19	20	1		4			720			
* DAY ROOM WALL RECEPT.	21	20	1		2				360		
DAY ROOM WALL RECEPT.	23	20	1		3					540	
DAY ROOM FLOOR RECEPT.	25	20	1		2			360			
DAY ROOM FLOOR RECEPT.	27	20	1		3				540		
KITCHEN CONV. RECEPT.	29	20	1		4					720	
HOOD	31	20	1		1			180			
RANGE IGNITER	33	20	1		1				180		
FC2-1 - FC2-7, FC3-2	35	20	2			8				942	
W/CKT. 35	37	—	—					942			
RM 218 GARBAGE DISPOSAL	39	30	1			1			1920		
LOW LEVEL NIGHT LIGHTS	41	20	1	15						45	
SUB TOTAL VOLTA/AMPS:								4142	5010	4257	
RM 218 COFFEE MAKER	2	20	1			1		1200			
RM 218 DISH WASHER	4	20	1			1			1000		
RM 218 REFRIGERATOR	6	20	1			1				1000	
RM 218 FREEZER	8	20	1			1		1000			
SPARE	10	20	1								
SPARE	12	20	1								
SPARE	14	20	1								
SPARE	16	20	1								
SPARE	18	20	1								
SPARE	20	20	1								
SPARE	22	20	1								
SMOKE FIRE DAMPERS	24	20	1			5				125	
KITCHEN & STORAGE LTS	26	20	1	20				513			
APP BAY LIGHTS	28	20	1	22					836		
HALLWAY & DORM LIGHTS	30	20	1	36						638	
SPACE	32	—	—								
SPACE	34	—	—								
SPACE	36	—	—								
SPACE	38	—	—								
PERIMETER WALL LIGHTS	40	20	1	10					240		
BUILDING LTS & BOLLARDS	42	20	1	18						442	
SUB TOTAL VOLTA/AMPS:								2713	2076	2205	
PANEL SUB TOTAL VOLTA/AMPS:								6855	7086	6462	
TOTAL LCL/PHASE:								128	269	281	
CONNECTED: 20403 VA								TOTAL VOLTA/PHASE:	6983	7355	6743
25% OF MTR: VA								TOTAL AMPS/PHASE:	58	61	56
25% OF LCL: 678.5 VA											
CALCULATED: 21082 VA = 58.52 AVERAGE AMPS											

* = INDICATES ARC-FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKER.

PANEL "C" — VOLTAGE: 208/120V-4-WIRE; LOCATION: ELEC. ROOM; MAIN BREAKER: M.L.O.; BUS SIZE COPPER: 200A.; SCA: SERIES; MOUNT: RECESSED; ENTRY: BOTTOM

DESCRIPTION	CKT	BKR	P	LTS	REC	MSC	MTR	A-VA	B-VA	C-VA	AMPS
FC1-1 - FC1-4	1	20	2			4		1321			
W/CKT. 1	3	—	—						1321		
UH-1 & UH-2	5	20	1			2				1512	
EF-1, EF-2, EF-3	7	20	1			3		1404			
HRU-1	9	80	3						7236		
W/CKT. 9	11	—	—							7236	
W/CKT. 9	13	—	—					7236			
HRU-2	15	40	3						3420		
W/CKT. 15	17	—	—							3420	
W/CKT. 15	19	—	—					3420			
HRU-3	21	40	3						3420		
W/CKT. 21	23	—	—							3420	
W/CKT. 21	25	—	—					3420			
FC3-1 / BS-1	27	20	2			2			358		
W/CKT. 27	29	—	—							358	
FC1-7	31	20	2			1		229			
W/CKT. 31	33	—	—						229		
FC2-1 - FC2-4, FC2-6	35	20	2			5				1217	
W/CKT. 35	37	—	—					1217			
FC1-6	39	20	2			1			333		
W/CKT. 39	41	—	—							333	
SUB TOTAL VOLTA/AMPS:								18247	16317	17496	
SCU-1/SFC-1	2	30	2				1	1560			
W/CKT. 2	4	—	—						1560		
SCU-2/SFC-2	6	30	2				1			1560	
W/CKT. 6	8	—	—					1560			
EF-11	10	15	3				1		936		
W/CKT. 10	12	—	—							936	
W/CKT. 10	14	—	—					936			
EF-1 - EF-5	16	20	1				5		216		
EF-7, EF-8, EF-9, EF-10	18	20	1				4			48	
EF-6, BF-1	20	20	1				2	192			
RM. 115 SHADES	22	20	1				1		100		
RM. 115 SHADES	24	20	1				1			100	
SPARE	26	20	1								
FC3-2, BS-2	28	20	2				2		250		
W/CKT. 28	30	—	—							250	
SPARE	32	20	1					250			
FC2-5, FC2-7, FC3-2	34	20	2				2		250		
W/CKT. 34	36	—	—							250	
SPARE	38	20	1								
UH-1	40	15	1				1		756		
UH-2	42	15	1				1			756	
SUB TOTAL VOLTA/AMPS:								4498	4068	3900	
PANEL SUB TOTAL VOLTA/AMPS:								22745	20385	21396	
TOTAL LCL/PHASE:								0	252	252	
CONNECTED: 64526 VA								TOTAL VOLTA/AMPS:	22745	20637	21648
25% OF MTR: VA								TOTAL AMPS/PHASE:	190	172	180
25% OF LCL: 0 VA											
CALCULATED: 64526 VA = 179.11 AVERAGE AMPS											

PANEL "D" — VOLTAGE: 208/120V-4-WIRE; LOCATION: ELEC. ROOM; MAIN BREAKER: M.L.O.; BUS SIZE COPPER: 100A.; SCA: SERIES; MOUNT: RECESSED; ENTRY: BOTTOM

DESCRIPTION	CKT	BKR	P	LTS	REC	MSC	MTR	A-VA	B-VA	C-VA	AMPS
SPARE	1	20	1								
SPARE	3	20	1								
SPARE	5	20	1								
SPARE	7	20	1								
SPARE	9	20	1								
SPARE	11	20	1								
SPARE	13	20	1								
SPARE	15	20	1								
SPARE	17	20	1								
SPARE	19	20	1								
SPARE	21	20	1								
SPARE	23	20	1								
SPARE	25	20	1								
SPARE	27	20	1								
SPARE	29	20	1								
SPARE	31	20	1								
SPARE	33	20	1								
SPARE	35	20	1								
SPARE	37	20	1								
SPARE	39	20	1								
SPARE	41	20	1								
SUB TOTAL VOLTA/AMPS:								0	0	0	
AIR COMPRESSOR	2	30	3		1			2100			
W/CKT. 18	4	—	—						2100		
W/CKT. 18	6	—	—							2100	
RM 119 - 122 RECEPTACLES	8	20	1		3			540			
RM 119 - 122 RECEPTACLES	10	20	1		3				540		
DRYER	12	30	2		1					750	
W/CKT. 12	14	—	—					750			
RMs 119 - 125 LIGHTS	16	20	1	16					403		
○ SHOP 124 PLUG/MOLD	18	20	1			1				1920	
BI-FOLD DOOR #1	20	20	3					385			
W/CKT. 20	22	—	—						385		
W/CKT. 20	24	—	—							385	
BI-FOLD DOOR #2	26	20	3					385			
W/CKT. 26	28	—	—						385		
W/CKT. 26	30	—	—							385	
RELAY CABINET "TS-1"	32	20	1			1		180			
RELAY CABINET "RC-1"	34	20	1			1			180		
SPARE	36	20	1								
SPARE	38	20	1								
SPARE	40	20	1								
SPARE	42	20	1								
SUB TOTAL VOLTA/AMPS:								4340	3993	5540	
PANEL SUB TOTAL VOLTA/AMPS:								4340	3993	5540	
TOTAL LCL/PHASE:								96	101	96	
CONNECTED: 13873 VA								TOTAL VOLTA/AMPS:	4436	4094	5636
25% OF MTR: VA								TOTAL AMPS/PHASE:	37	34	47
25% OF LCL: 100.75 VA											
CALCULATED: 13974 VA = 38.79 AVERAGE AMPS											

○ = INDICATES GROUND FAULT TYPE CIRCUIT BREAKER

MAIN SWITCHBRD "MSBD" — VOLTAGE: 208/120V-4-WIRE; LOCATION: ELEC. ROOM; MAIN BREAKER: 800A.; BUS SIZE COPPER: 800A.; SCA: 42 KAIC; MOUNT: FLOOR; ENTRY: TOP

DESCRIPTION	CKT	CB	P	LTS	REC	MSC	MTR	A-VA	B-VA	C-VA	AMPS
DISTRIBUTION PANEL "DP"	1	600	3			1		50795	48653	52216	
SOLAR	2	150	3			1		10608	10608	10608	
SUB TOTAL VOLTA/AMPS:								61403	59261	62824	
CONNECTED: 183487 VA								TOTAL AMPS/PHASE:	512	494	524
25% OF MTR: 0 VA											
25% OF LCL: 0 VA											
CALCULATED: 183487 VA = 509.31 AMPS									509.31	ACTUAL AMPS	

SWITCHBOARD "DP" — VOLTAGE: 208/120V-4-WIRE; LOCATION: ELEC. ROOM; MAIN BREAKER: 600A.; BUS SIZE COPPER: 600A.; SCA: 42 KAIC; MOUNT: FLOOR; ENTRY: TOP

DESCRIPTION	CKT	CB	P	LTS	REC	MSC	MTR	A-VA	B-VA	C-VA	AMPS
PANEL "A"	1	200	3			1		10070	10008	11629	
PANEL "B"	2	100	3			1		6983	7355	6743	
PANEL "C"	3	200	3			1		22745	20637	21648	
PANEL "D"	4	100	3			1		4436	4094	5636	
ELEVATOR	5	40	3			1		3140	3140	3140	
PLYMOVENT	6	50	3			1		3420	3420	3420	
SUB TOTAL VOLTA/AMPS:								50795	48653	52216	
CONNECTED: 151663 VA								TOTAL AMPS/PHASE:	423	405	435
25% OF MTR: 0 VA											
25% OF LCL: 0 VA											
CALCULATED: 151663 VA = 420.98 AMPS									420.98	ACTUAL AMPS	

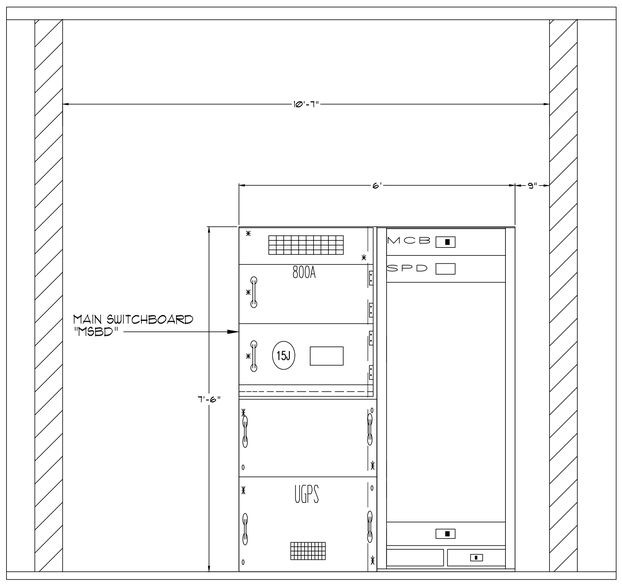
PV POWER SUMMARY

INVERTER	ARRAY #	BUILDING	NUMBER OF MODULES	STC Kw	PTC Kw	AC Kw	
INV-1	1	ROOF	16	8.8	6.6	6.39	
			16	8.8	6.6	6.39	17.8
			TOTAL MODULES	TOTAL STC Kw	TOTAL PTC Kw	TOTAL AC Kw	AC AMPS @ 208V

INVERTER

INVERTER	CONTINUOUS POWER OUTPUT (Kw)	CEC WEIGHTED EFFICIENCY (%)	AC MAXIMUM CONTINUOUS CURRENT (AMPS) AT 208V	MIN. OVERCURRENT PROTECTION PER CEC 690.9(B)	MAXIMUM DC INPUT VOLTAGE	AC INPUT VOLTAGE	MODULES PER STRING	MODULE Vmp	OPERATING VOLTAGE	MODULE Voc	MODULE TEMP. COEFFICIENT	MAXIMUM SYSTEM VOLTAGE
INV-1	10	97	27.8	34.8	600	208	8	41.55	332.4	49.59	0.26%	428.2

2



MAIN SWITCHBOARD ELEVATION
SCALE: 3/4" = 1'-0"

A&F ENGINEERING GROUP, INC.
9320 BASELINE RD., SUITE C, RANCHO CUCAMONGA, CA 91701
TEL: (909) 941-3008 FAX: (909) 941-8211

REGISTERED PROFESSIONAL ENGINEER — RICHARD L. SUTTER — No. E17229 6/30/26 — STATE OF CALIFORNIA

PBK
ARCHITECT
PBK Architects, Inc.
PBK.com
SAN LUIS OBISPO
1327 Archer Street, Suite 110
San Luis Obispo, CA 93401
805-329-3076

Not for permitting or construction

FIRE STATION #44
COASTSIDE FIRE PROTECTION DISTRICT
501 STESON STREET
MOSS BEACH, CA 94038
100% CD SET

COASTSIDE FIRE PROTECTION DISTRICT

BID SET

KEY PLAN
PLAN NORTH
TRUE NORTH

CLIENT
COASTSIDE FIRE PROTECTION DISTRICT
PROJECT NUMBER
230137
DATE 2/14/2025
DRAWN BY: LS CHKED BY: RES

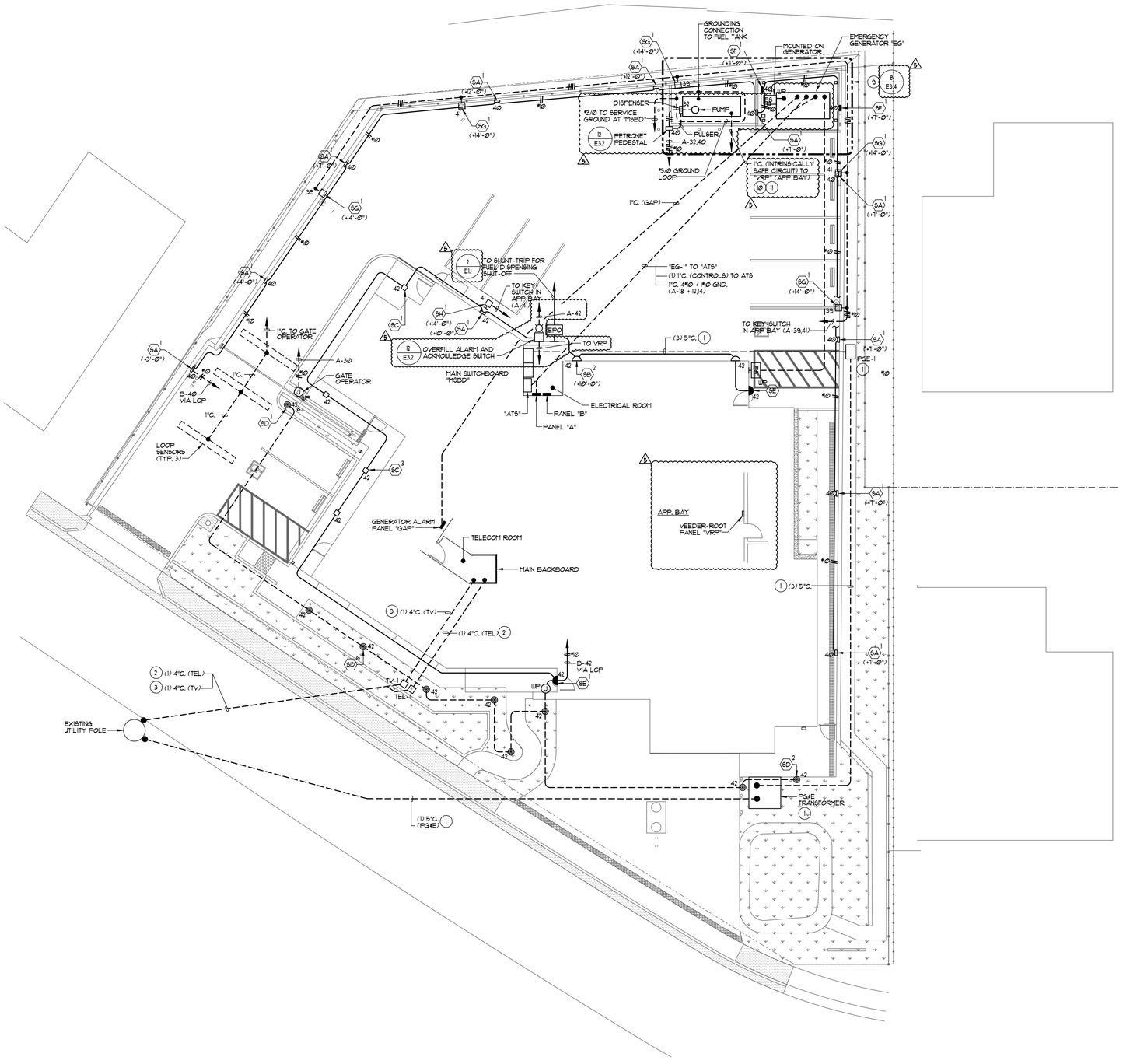
REVISIONS

#	DESCRIPTION	DATE
1	PLAN CHECK #1 RESPONSE	12/05/25
2	PLAN CHECK #2 RESPONSE	03/13/26
3	PLAN CHECK #3 RESPONSE	05/22/26
4	PLAN CHECK #4 RESPONSE	08/25/26
5	ADDENDUM #6	10/23/26

SINGLE LINE DIAGRAM AND PANEL SCHEDULES

E0.2

This document is for plan review only



SITE PLAN | 1" = 10'-0" | 1

PLAN NOTES:

1. THE ELECTRICAL CONTRACTOR SHALL CONTACT THE PACIFIC GAS AND ELECTRIC (PG&E) SERVICE PLANNER, UPON AWARD OF CONTRACT AND OBTAIN A COPY OF THE PG&E ENGINEERING DRAWINGS PRIOR TO INSTALLING THE SERVICE CONDUIT, DUCTS, PAD MOUNT, RISERS, PULL BOXES, PROTECTIVE COVERING, ETC. INDICATED ON THIS PLAN. ALL WORK INDICATED ON THE UTILITY COMPANY ENGINEERING DRAWINGS, WHETHER SHOWN ON THIS PLAN OR NOT, SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL INSTALL THE SERVICE IN COMPLIANCE WITH THE SERVING UTILITY COMPANY REQUIREMENTS AND ALL UTILITY COMPANY WORK SHALL BE INSPECTED AND APPROVED BY THE SERVING UTILITY.

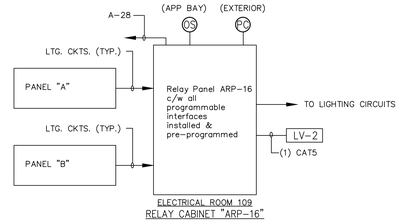
   UTILITY COMPANY ENGINEERING AND PERMIT FEES ASSOCIATED WITH THE WORK SHOWN AND INDICATED ON THE UTILITY COMPANY ENGINEERING DRAWINGS SHALL BE PAID BY THE CONTRACTOR AND REIMBURSED BY THE OWNER. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT / OWNER OF ANY DISCREPANCIES BETWEEN THE UTILITY COMPANY ENGINEERING DRAWINGS AND THIS PLAN PRIOR TO PROCEEDING WITH THE WORK.
2. THE ELECTRICAL CONTRACTOR SHALL CONTACT THE TELEPHONE ENGINEER UPON AWARD OF CONTRACT AND OBTAIN A COPY OF THE TELEPHONE ENGINEERING DRAWINGS PRIOR TO INSTALLING THE SERVICE CONDUIT, DUCTS, RISERS, PULL BOXES, PROTECTIVE COVERING, ETC. INDICATED ON THIS PLAN. ALL WORK INDICATED ON THE UTILITY COMPANY ENGINEERING DRAWINGS, WHETHER SHOWN ON THIS PLAN OR NOT, SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL INSTALL THE SERVICE IN COMPLIANCE WITH THE SERVING UTILITY COMPANY REQUIREMENTS AND ALL UTILITY COMPANY WORK SHALL BE INSPECTED AND APPROVED BY THE SERVING UTILITY.

   UTILITY COMPANY ENGINEERING AND PERMIT FEES ASSOCIATED WITH THE WORK SHOWN AND INDICATED ON THE UTILITY COMPANY ENGINEERING DRAWINGS SHALL BE PAID BY THE CONTRACTOR AND REIMBURSED BY THE OWNER. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/OWNER OF ANY DISCREPANCIES BETWEEN THE UTILITY COMPANY ENGINEERING DRAWINGS AND THIS PLAN PRIOR TO PROCEEDING WITH THE WORK.
3. THE ELECTRICAL CONTRACTOR SHALL CONTACT THE CABLE TV SERVICE PLANNER UPON AWARD OF CONTRACT AND OBTAIN A COPY OF THE COX CABLE TV ENGINEERING DRAWINGS PRIOR TO INSTALLING THE SERVICE CONDUITS, DUCTS, RISERS, PULL BOXES, PROTECTIVE COVERING, ETC. INDICATED ON THIS PLAN. ALL WORK INDICATED ON THE UTILITY COMPANY ENGINEERING DRAWINGS, WHETHER SHOWN ON THIS PLAN OR NOT, SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL INSTALL THE SERVICE IN COMPLIANCE WITH THE SERVING UTILITY COMPANY REQUIREMENTS AND ALL UTILITY COMPANY WORK SHALL BE INSPECTED AND APPROVED BY THE SERVING UTILITY.

   UTILITY COMPANY ENGINEERING AND PERMIT FEES ASSOCIATED WITH THE WORK SHOWN AND INDICATED ON THE UTILITY COMPANY ENGINEERING DRAWINGS SHALL BE PAID BY THE CONTRACTOR AND REIMBURSED BY THE OWNER. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/OWNER OF ANY DISCREPANCIES BETWEEN THE UTILITY COMPANY ENGINEERING DRAWINGS AND THIS PLAN PRIOR TO PROCEEDING WITH THE WORK.
4. CONDUIT ROUTING INDICATED ON THESE PLANS IS DIAGRAMMATIC. ACTUAL ROUTING OF UNDERGROUND CONDUITS SHALL BE COORDINATED IN THE FIELD TO AVOID INTERFERENCE WITH OTHER UTILITIES AND TRADES.
5. IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO MAINTAIN REQUIRED CLEARANCES BETWEEN UNDERGROUND ELECTRICAL CONDUITS AND FOOTINGS. CONDUIT STUB-UPS SHALL NOT BE INSTALLED IN FOOTINGS. EXACT METHOD FOR STUBBING-UP CONDUITS AT FOOTING LOCATIONS SHALL BE COORDINATED IN THE FIELD WITH THE GENERAL CONTRACTOR AND THE ARCHITECT.
6. REFER TO DRAWING E0.1, GENERAL NOTES, FOR ADDITIONAL REQUIREMENTS.
7. SEE SINGLE LINE DIAGRAM, DRAWING E0.2, FOR CONDUIT SIZE AND WIRE SIZE AND QUANTITIES REQUIRED FOR ALL ELECTRICAL EQUIPMENT.
8. CONDUIT AND WIRE INDICATED ON THE SINGLE LINE DIAGRAM, WHETHER SHOWN ON THIS DRAWING OR NOT, SHALL BE A PART OF THIS CONTRACT AND THE RESPONSIBILITY OF THIS CONTRACTOR TO PROVIDE REQUIRED ROUTING TO MEET THE INTENT OF THESE PLANS AND SPECIFICATIONS.
9. ALL CONDUIT / FITTINGS AND WIRING METHODS WITHIN THIS AREA SHALL BE IN COMPLIANCE WITH CLASS I, DIVISION 2 INSTALLATION METHODS. PROVIDE CONDUIT SEALS PER C.E.C. ARTICLE 514 & 515.
10. COORDINATE CONNECTIONS TO FUEL TANK WITH FUEL TANK SUPPLIER AND MAKE ALL REQUIRED CONNECTIONS AND ATTACHMENTS TO THE FUEL TANK AND "FUEL MASTER" FUEL DISPENSING MONITORING SYSTEM FOR A FULLY FUNCTIONAL FUEL DISPENSING AND MONITORING SYSTEM. REFER TO SPECIFICATIONS FOR COMPLETE REQUIREMENTS.
11. INTRINSICALLY SAFE WIRING SYSTEM SHALL COMPLY WITH 2019 C.E.C. ART. 504.

LIGHTING CONTROL PANEL "LCP"

LCP NOTE:
UPON COMPLETION OF THE LIGHTING CONTROL PANEL INSTALLATION THE CONTRACTOR SHALL SCHEDULE A MEETING WITH THE OWNER TO OBTAIN PROGRAMMING REQUIREMENTS FOR EACH RELAY. THE CONTRACTOR SHALL PROGRAM THE SYSTEM BASED ON THE CITY REQUIREMENTS AND TEST THE SYSTEM IN THE PRESENCE OF THE OWNER. HE SHALL MAKE REQUIRED ADJUSTMENTS TO THE SYSTEM PROGRAMMING AS REQUIRED/REQUESTED BY THE CITY AT NO ADDITIONAL COST TO THE CONTRACT.



ELECTRICAL ROOM 109
RELAY CABINET "ARP-16"

RELAY CABINET "ARP-16"

DESCRIPTION	Circuit Number	Control Letter	Control	LV Switch	Relay Number	Control Zone
SITE / AREA LIGHTS	B-40	a	T/C	----	1	1
EXTERIOR BUILDING LIGHTS	B-42	a	T/C	----	2	1
*FIRST FLOOR STEP LIGHTS	A-33	b	T/C	----	3	2
*SECOND FLOOR STEP LIGHTS	B-41	c	T/C	----	4	3
**APP BAY NIGHT LIGHTS	B-28	a,b	T/C	----	5	4
SPARE (TYP. 11)	----	--	--		6	--

* RELAY SHALL BE PROGRAMMED TO OPERATE FROM DUSK TO DAWN.
** RELAY SHALL BE PROGRAMMED TO INTERFACE WITH ALERTING SYSTEM FOR ON-OFF CONTROL DURING EMERGENCY CALLS.

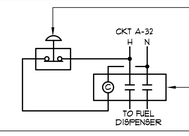
RELAY CABINET – ARP
MANUFACTURER: ACUITY
1 – ARP-INTENCH-NLT-16SPR-MVOLT-SC-FM

CONTROL LEGEND
T/C = TIME CLOCK
LV = LOW VOLTAGE SWITCH.
PC = PHOTOCELL

ELEC. ROOM 109

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"LCP" LIGHTING CONTROL PANEL | N.T.S. | 3



"EPO"- 50MM RED MUSHROOM HEAD PUSH-PULL EMERGENCY STOP BUTTON. PROVIDE SQUARE D 9434 SERIES WITH 90MM CIRCULAR LEGEND OR APPROVED EQUAL. MOUNT STOP BUTTON ON NEMA 3R FD TYPE BOX WITH CLEAR SEE THREW DEVICE COVER, AS INDICATED ON PLAN.

20 AMP, 2 POLE CONTACTOR MOUNTED IN 8" X 8" X 4" DEEP NEMA 1 PULL BOX ABOVE PANEL "A".

FUEL SYSTEM EPO DIAGRAM | N.T.S. | 2

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100% CD SET

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TRUE NORTH

REGISTERED PROFESSIONAL ENGINEER
RICHARD E. SATO
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6/30/26
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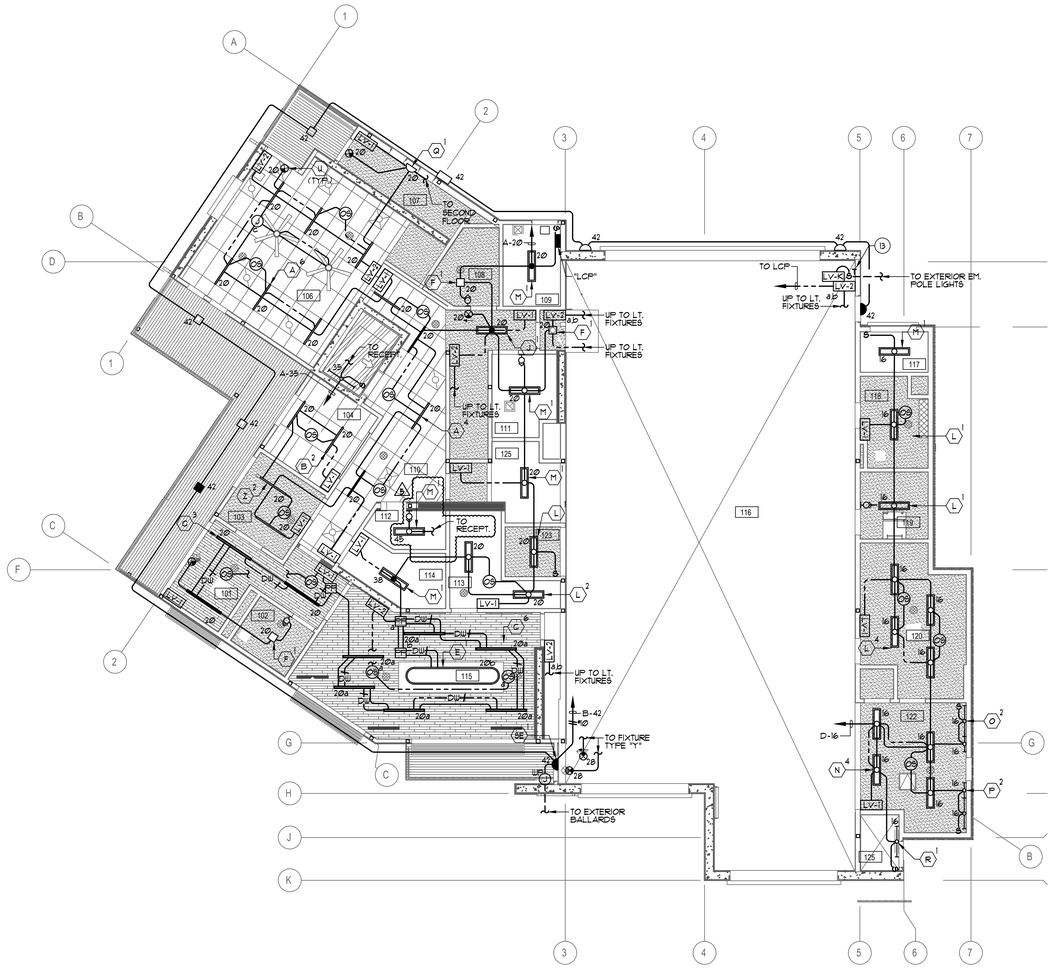
REVISIONS

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4	PLAN CHECK #4 RESPONSE	08/25/26
5	ADDENDUM #6	10/23/26

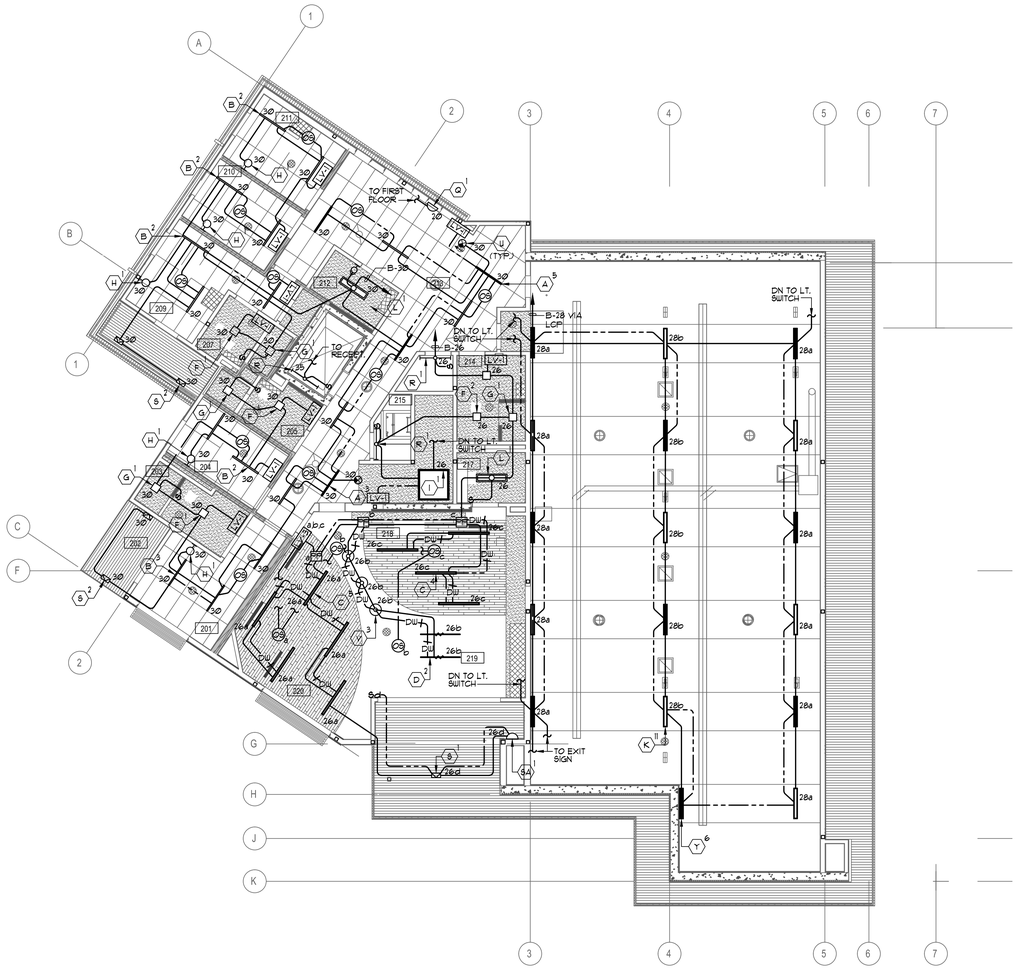
SITE PLAN

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E1.1



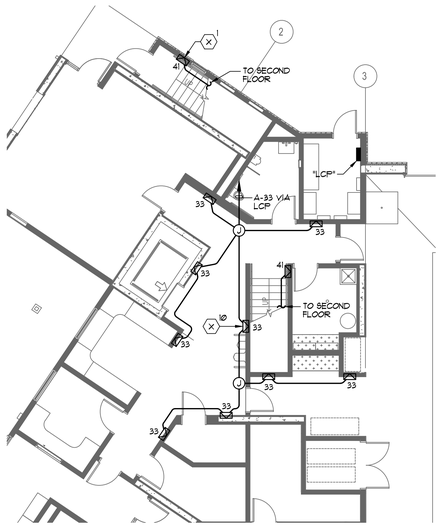
1 FIRST FLOOR LIGHTING PLAN
SCALE: 1/8" = 1'-0"



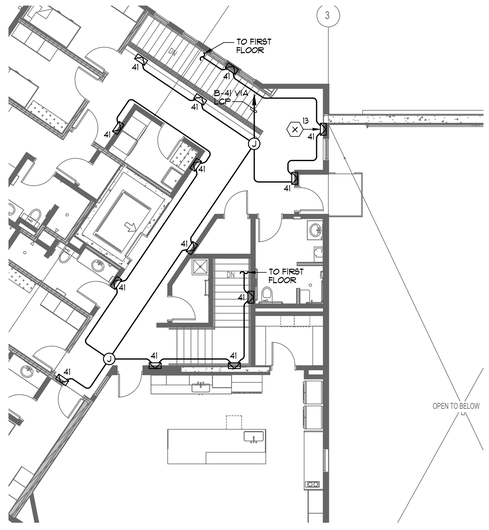
2 SECOND FLOOR LIGHTING PLAN
SCALE: 1/8" = 1'-0"

PLAN NOTES:

1. REFER TO GENERAL NOTES, DRAWING E0.1, FOR ADDITIONAL REQUIREMENTS.
2. REFER TO LIGHTING FIXTURE SCHEDULE, DRAWING E0.3 FOR TYPE OF FIXTURE TO BE PROVIDED AND INSTALLED. (A)
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL CEILING MOUNTED FIXTURES AND DEVICES WITH THE ARCHITECTURAL REFLECTED CEILING PLAN.
4. OCCUPANT SENSOR LOCATIONS INDICATED ON PLAN SHALL BE ADJUSTED/MOVED AS REQUIRED TO PROVIDE FULL COVERAGE OF THE AREA INDICATED ON PLAN. PLACEMENT OF SENSORS SHALL CONFORM WITH THE SENSOR MANUFACTURER'S RECOMMENDATION.
5. NO EXPOSED CONDUIT WILL BE ALLOWED.
6. LIGHTING CONTROLS ARE BASED ON ACUITY NLIGHT SYSTEM. ANY PROPOSED ALTERNATE SYSTEM WILL REQUIRE THE CONTRACTOR TO UPDATE/CHANGE THE PLAN TO REFLECT THE PROPOSED ALTERNATE SYSTEM. THE REVISED DRAWING SHALL BE ISSUED AS PART OF THE LIGHTING CONTROLS SUBMITTAL.
7. REFER TO WIRING CONTROL DIAGRAM ON SHEET E3.3 DETAIL #4 FOR WIRING REQUIREMENTS. (A)
8. ALL SENSORS IN HALLWAYS/CORRIDORS SHALL BE PROGRAMMED TO REDUCE BY 50% WHEN NO MOVEMENT IS DETECTED.
9. CONTRACTOR TO MEET AND COORDINATE WITH THE TITLE 24 ACCEPTANCE TESTER PRIOR TO THE BEGINNING OF THE PROJECT TO VERIFY ALL TITLE 24 ACCEPTANCE TEST REQUIREMENTS AND DOCUMENTS TO BE COMPLETED. CONTRACTOR SHALL PROVIDE, COMPLETE AND SUBMIT ALL REQUIRED TITLE 24 ACCEPTANCE TEST DOCUMENTS AS REQUIRED BY THE T24 ACCEPTANCE TESTER.
10. THE CONTRACTOR SHALL NOTE THAT THE DRAWING IS DIAGRAMMATIC. EXACT ROUTING OF NEW CONDUITS AND LOCATION OF JUNCTION BOXES AND PULL BOXES SHALL BE COORDINATED AND DETERMINED IN THE FIELD. NEW CONDUIT, JUNCTION BOXES AND PULL BOXES SHALL BE ROUTED / PLACED IN SUCH A MANNER AS TO ADHERE TO ALL APPLICABLE CODES AND TO AVOID INTERFERENCE WITH EXISTING UTILITIES AND THE WORK BEING PERFORMED BY OTHER TRADES. ALL BUILDING STRUCTURES, EXTERIOR CONDUIT, FITTINGS, JUNCTION BOXES AND PULL BOXES TO BE WEATHER PROOF TYPE, NEMA 3R.
11. CONTRACTOR TO PROVIDE ENGRAVED LABELING AT EACH RECEPTACLE, DATA OUTLET, JUNCTION BOX, DISCONNECT SWITCH, ECT. DISPLAYING THE IDF OR PANEL (WITH CIRCUIT) FEEDING THE DATA OUTLET, RECEPTACLE, JUNCTION BOX, DISCONNECT SWITCH, ECT.
12. LIGHT FIXTURE SHALL BE INSTALLED IN THE ELEVATOR PIT PER ELEVATOR CODE REQUIREMENTS.
13. 24 HOUR DIGITAL SWITCH TIMER.



3 FIRST FLOOR GROUND LIGHTING PLAN
SCALE: 1/8" = 1'-0"



4 SECOND FLOOR GROUND LIGHTING PLAN
SCALE: 1/8" = 1'-0"

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ROOM #	ROOM NAME	ROOM #	ROOM NAME
101	LOBBY	201	BAT. CHIEF
102	RR 1	202	BALCONY
103	CAPT. OFFICE	203	BC RR
104	OFFICE	204	DORM 1
105	ELEV	205	RR
106	FITNESS	206	ELEV
107	STAIRWAY 1	207	RR 3
108	RR	208	BALCONY
109	ELECT.	209	CAPTAIN
110	HALLWAY	210	DORM 2
111	CUST.	211	DORM 3
112	EL MACH.	212	LAUNDRY
113	STOR	213	HALLWAY
114	TELECOM	214	ACCESSIBLE RR
115	TRAINING CLASSROOM	215	VEST
116	APPARATUS BAY	216	STOR 3
117	YARD ST	217	PANTRY
118	DECON	218	KITCHEN
119	EMS STOR.	219	DINING
120	TURNOUT	220	DAYROOM
121	COMP	221	DECK
122	SHOP	222	SLIDE POLE DECK
123	HOSE DRY STOR		
124	FR		
125	VESTIBULE		
126	STAIRWAY 2		

ROOM LEGEND

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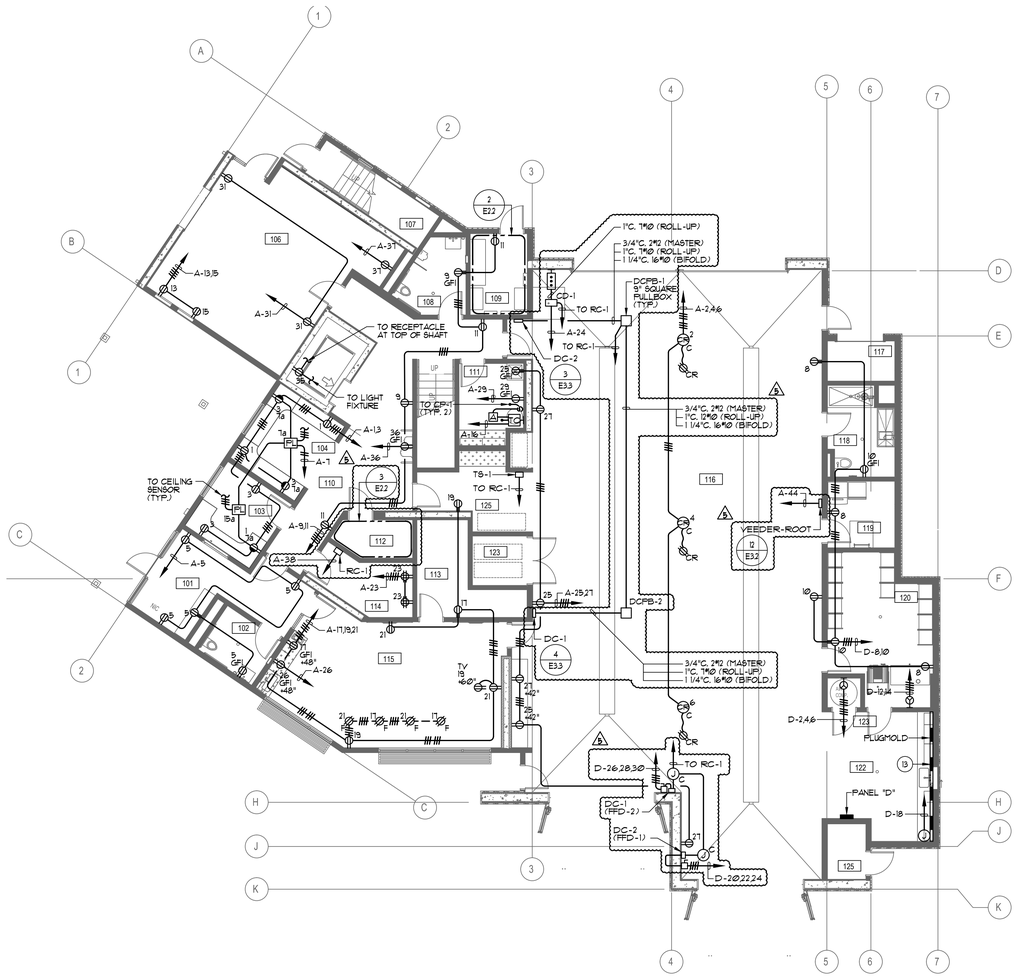
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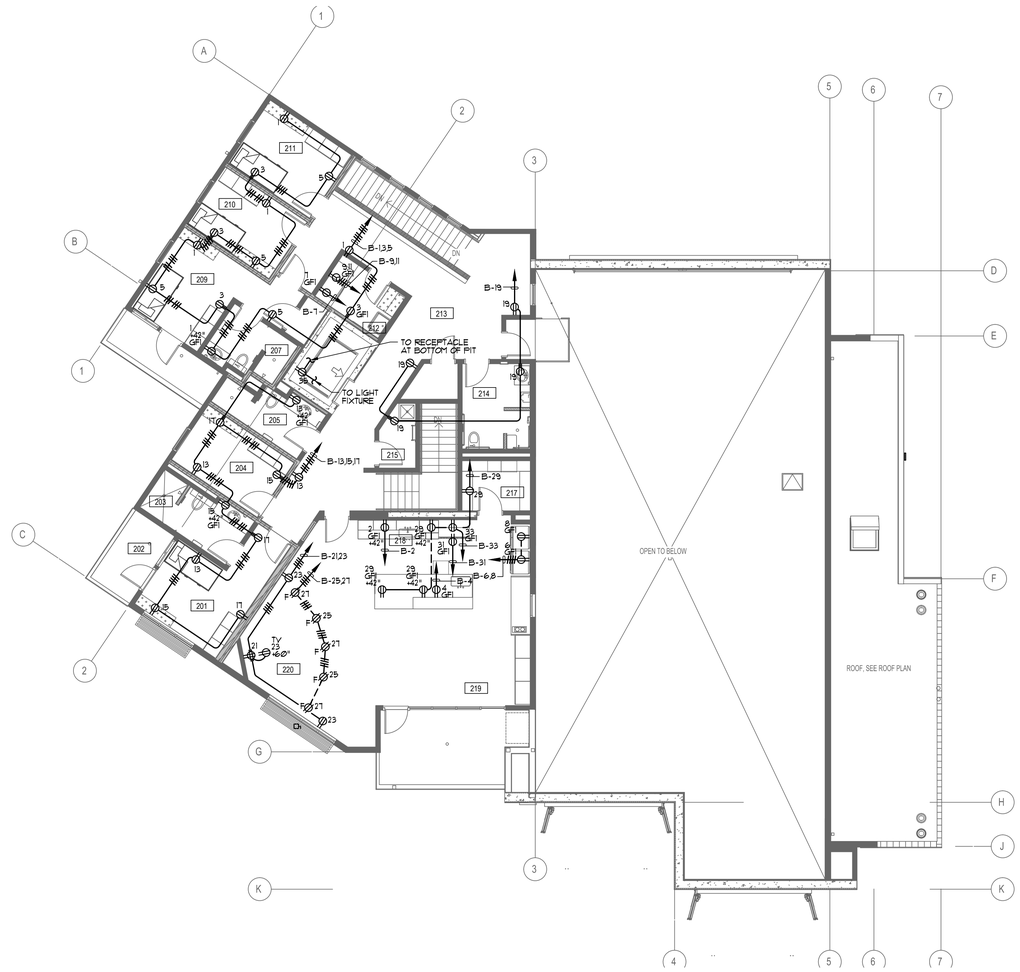
LIGHTING PLANS

E2.1



1 FIRST FLOOR POWER PLAN

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

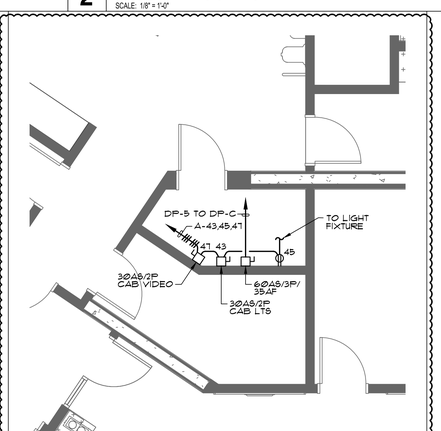


2 SECOND FLOOR POWER PLAN

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

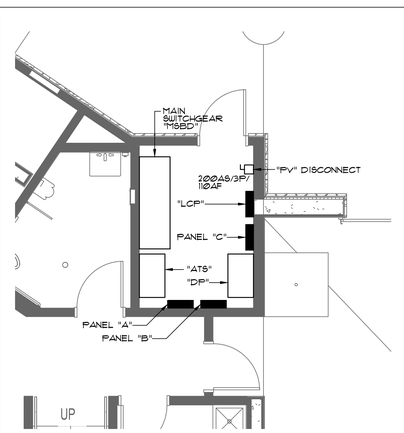
PLAN NOTES:

1. REFER TO GENERAL NOTES, DRAWING E0.1, FOR ADDITIONAL REQUIREMENTS.
2. SEE SINGLE LINE DIAGRAM, DRAWING E0.2 FOR CONDUIT SIZE AND WIRE SIZE AND QUANTITIES REQUIRED FOR ALL ELECTRICAL EQUIPMENT.
3. CONDUIT AND WIRE INDICATED ON THE SINGLE LINE DIAGRAM, WHETHER SHOWN ON THIS DRAWING OR NOT, SHALL BE A PART OF THIS CONTRACT AND THE RESPONSIBILITY OF THIS CONTRACTOR TO PROVIDE REQUIRED ROUTING TO MEET THE INTENT OF THESE PLANS AND SPECIFICATIONS.
4. EXACT LOCATION OF OUTLETS SHOWN ON THESE DRAWINGS SHALL BE COORDINATED WITH THE ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN AND SHALL BE LOCATED IN SUCH A MANNER TO AVOID INTERFERENCES WITH OTHER OUTLETS AND CASEWORK.
5. EXTERIOR MOUNTED DEVICES / RECEPTACLES SHALL BE PROVIDED COMPLETE WITH LOCKING TYPE WEATHERPROOF COVERS AND BE UL. LISTED FOR WET LOCATIONS WHEN IN USE. COVERS SHALL BE AS MANUFACTURED BY RACO OR APPROVED EQUAL. PLASTIC COVERS NOT ALLOWED.
5. NO OUTLET BEHIND PERMANENTLY INSTALLED CASEWORK WHERE OUTLETS ARE SPECIFICALLY NOTED TO BE INSTALLED IN CABINETS THE OUTLETS SHALL BE FLUSH WITH THE INSTALLED SURFACE OF THE CABINET.
6. NO EXPOSED CONDUIT WILL BE ALLOWED.
7. CONTRACTOR TO PROVIDE LEVITON #T5832-W TYPE RECEPTACLE (20A-125V). CONTRACTOR TO COORDINATE WITH THE ARCHITECT FOR EXACT COLOR TO BE PROVIDED PRIOR TO PURCHASE.
8. RECEPTACLE SHALL BE INSTALLED AT THE TOP OF THE SHAFT PER ELEVATOR CODE REQUIREMENTS.
9. CONTRACTOR TO COORDINATE WITH THE CASEWORK MANUFACTURE AND THE ARCHITECT TO AVOID COVERING UP THE RECEPTACLES FOR THE A/V CABINET. COORDINATION TO BE PERFORMED PRIOR TO ROUGH-IN.
10. CONTRACTOR TO PROVIDE ENGRAVED LABELING AT EACH RECEPTACLE DATA OUTLET, JUNCTION BOX, DISCONNECT SWITCH, ECT. DISPLAYING THE IDF OR PANEL (WITH CIRCUIT) FEEDING THE DATA OUTLET, RECEPTACLE, JUNCTION BOX, DISCONNECT SWITCH, ECT.
11. GENERATOR ALARM PANEL "GAP" TO BE RECESSED MOUNTED.
12. ALL ELECTRICAL PANELS, LIGHTING PANELS, RELAY PANELS, ETC. TO BE RECESSED MOUNTED.
13. ALL RECEPTACLES ON PLUG MOLD TO BE GFCI PROTECTED.



4 ELEVATOR MACHINE ROOM - 112

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



3 ELECTRICAL ROOM - 109

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

ROOM #	ROOM NAME	ROOM #	ROOM NAME
101	LOBBY	201	BAT. CHIEF
102	RR 1	202	BALCONY
103	CAPT. OFFICE	203	BC RR
104	OFFICE	204	DORM 1
105	ELEV	205	RR
106	FITNESS	206	ELEV
107	STAIRWAY 1	207	RR 3
108	RR	208	BALCONY
109	ELECT.	209	CAPTAIN
110	HALLWAY	210	DORM 2
111	CUST.	211	DORM 3
112	EL MACH.	212	LAUNDRY
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123	HOSE DRY STOR		
124	FR		
125	VESTIBULE		
126	STAIRWAY 2		

ROOM LEGEND

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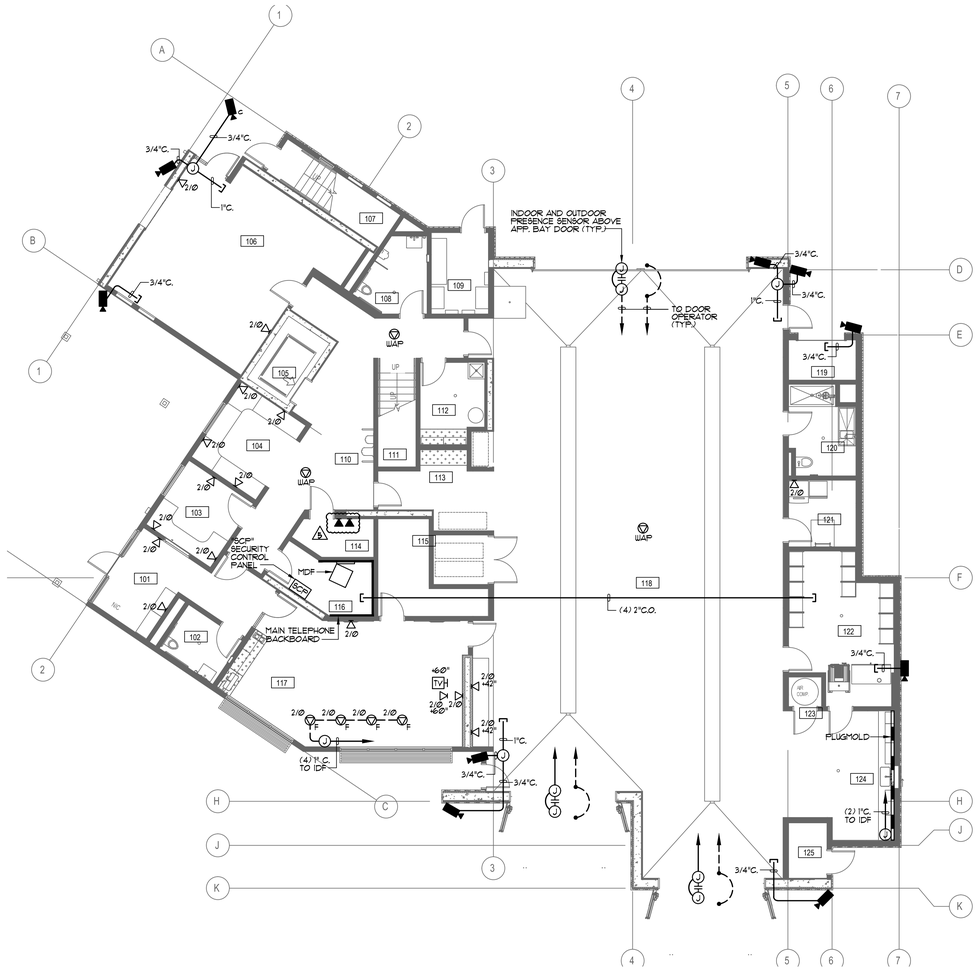
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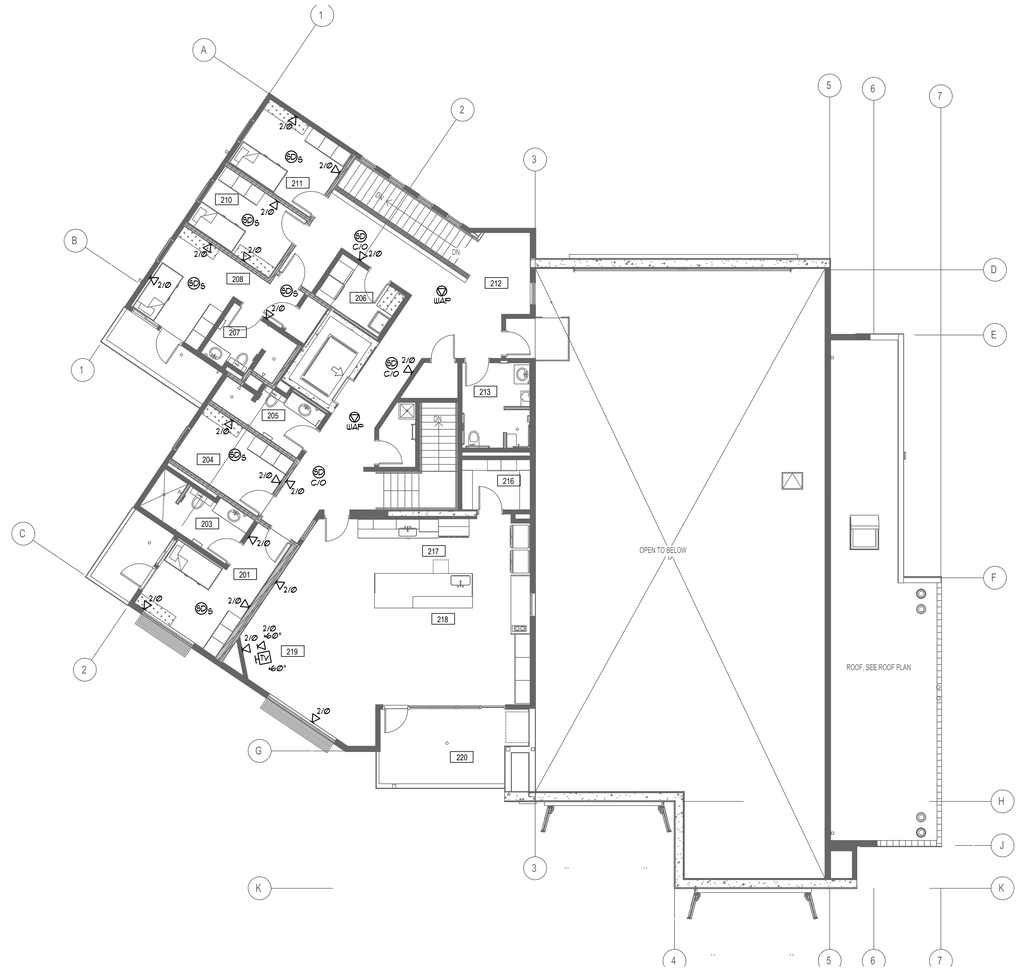
POWER PLANS

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E2.2



1 FIRST FLOOR SIGNAL PLAN
SCALE: 1/8" = 1'-0"



2 SECOND FLOOR SIGNAL PLAN
SCALE: 1/8" = 1'-0"

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9320 BASELINE RD., SUITE C, RANCHO CUCAMONGA, CA 91701
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PLAN NOTES:

1. REFER TO GENERAL NOTES, DRAWING E0.1, FOR ADDITIONAL REQUIREMENTS.
2. EXACT LOCATION OF OUTLETS SHOWN ON THESE DRAWINGS SHALL BE COORDINATED WITH THE ARCHITECTURAL PLANS PRIOR TO PULLING OF CABLES / CONDUCTORS.
3. EXTERIOR MOUNTED DEVICES SHALL BE PROVIDED COMPLETE WITH WEATHERPROOF BACKBOXES AND/OR COVERS. COVERS SHALL BE AS RECOMMENDED BY THE SYSTEM'S MANUFACTURER.
4. KNOX BOX. CONNECT TO FIRE ALARM CONTROL PANEL. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION.
5. WHERE LOW VOLTAGE WIRING IS REQUIRED IN INACCESSIBLE CEILING SPACES, THE CONTRACTOR SHALL PROVIDE A COMPLETE CONDUIT SYSTEM FOR ROUTING OF THE SUBJECT WIRE/CABLE.
6. FIRE ALARM DEVICES SHOWN ON PLAN ARE FOR REFERENCE ONLY. CONTRACTOR TO PROVIDE PATHWAYS FOR FIRE ALARM DEVICES SHOWN ON PLAN. FIRE ALARM SYSTEM IS A DEFERRED APPROVAL. A COMPLETE FIRE ALARM SYSTEM DESIGN SHALL BE SUBMITTED AND REVIEWED BY THE LIFE SAFETY SERVICES, FIRE PREVENTION DEPARTMENT.
7. HEAT DETECTOR IN THE ELEVATOR MACHINE ROOM AND PIT SHALL BE PROGRAMMED TO AUTOMATICALLY SHUT-OFF POWER TO THE ELEVATOR UPON ACTIVATION OF THE HEAT DETECTOR.
8. CONTRACTOR TO PROVIDE ENGRAVED LABELING AT EACH RECEPTACLE, DATA OUTLET, JUNCTION BOX, DISCONNECT SWITCH, ECT. DISPLAYING THE IDF OR PANEL (WITH CIRCUIT) FEEDING THE DATA OUTLET, RECEPTACLE, JUNCTION BOX, DISCONNECT SWITCH, ECT.

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ROOM LEGEND

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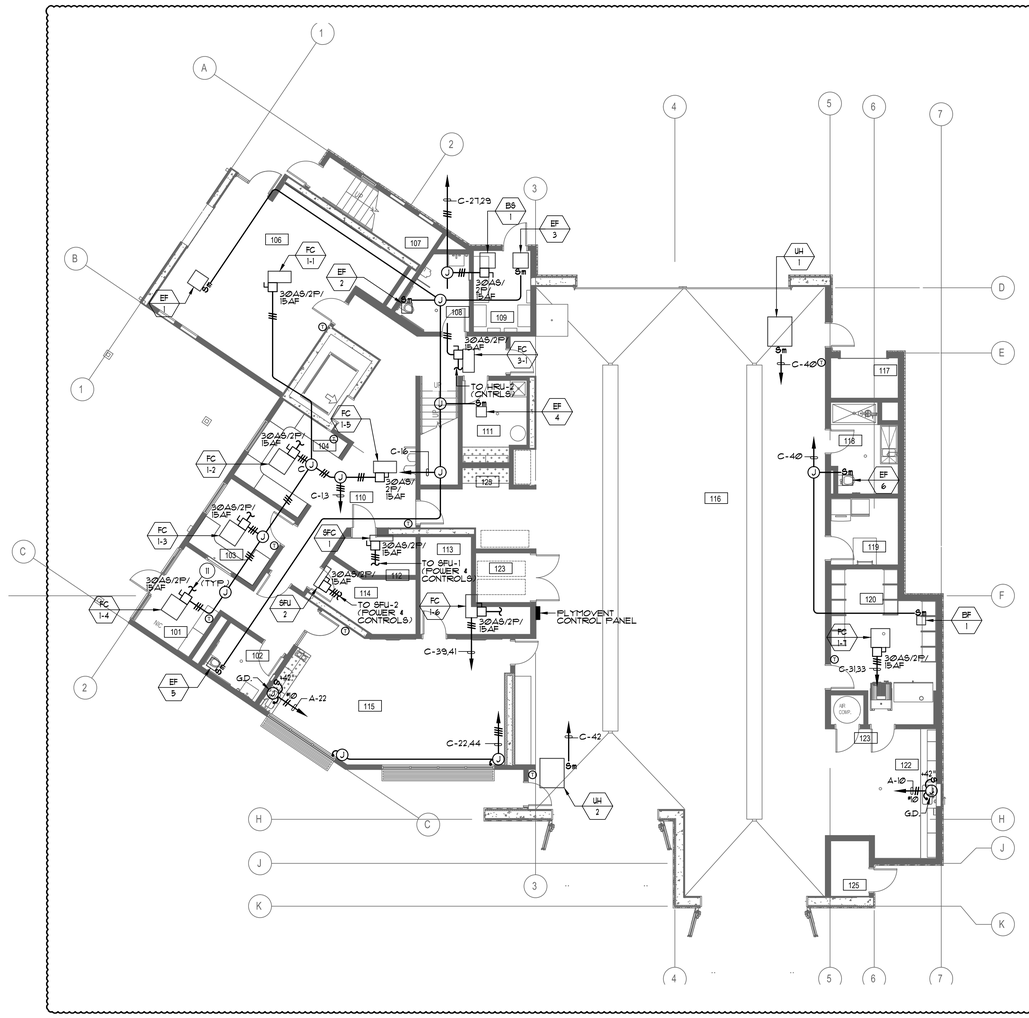
REVISIONS

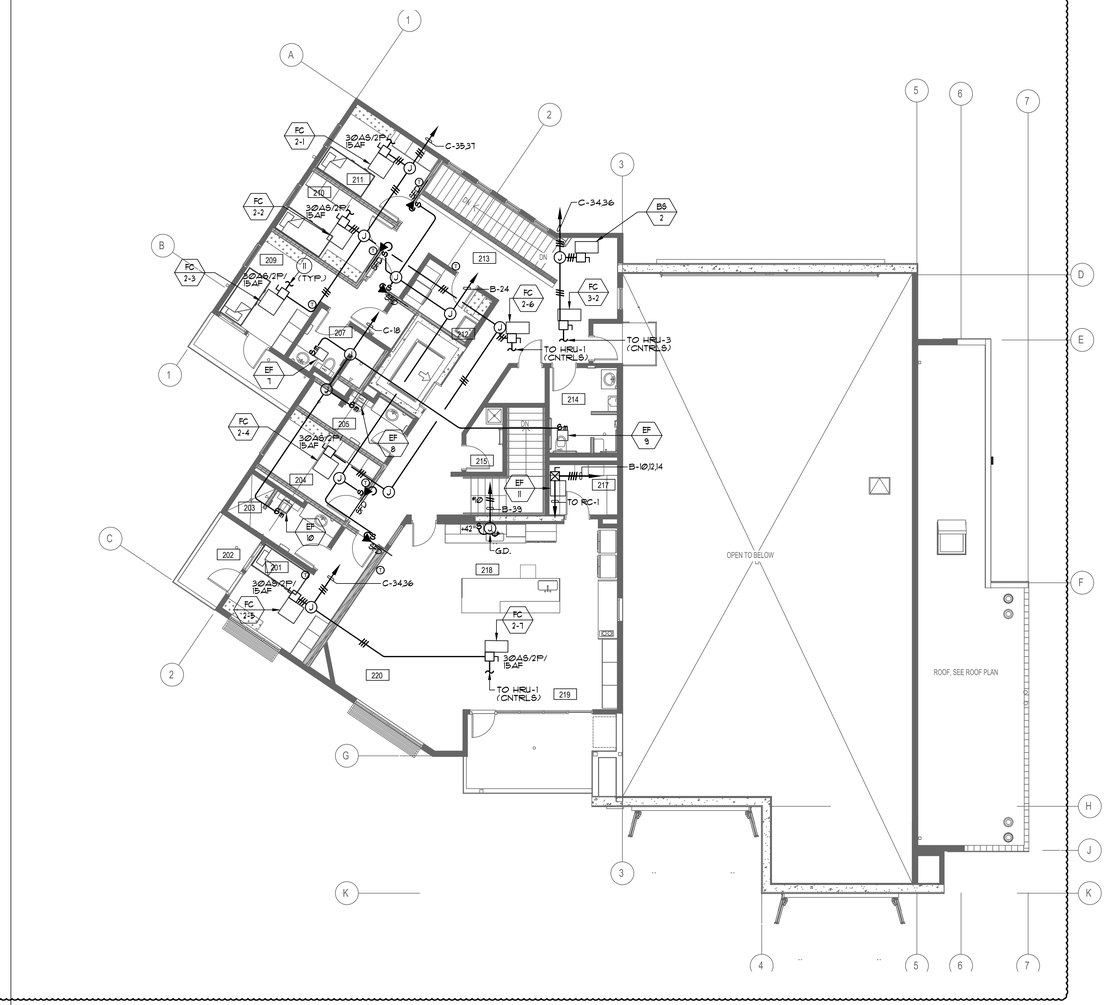
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2	PLAN CHECK #2 RESPONSE	03/13/26
3	PLAN CHECK #3 RESPONSE	05/22/26
4	PLAN CHECK #4 RESPONSE	08/25/26
5	ADDENDUM #6	10/23/26

SIGNAL PLANS

This document is for plan review only

E2.3





A&F ENGINEERING GROUP, INC.
9320 BASELINE RD., SUITE C, RANCHO CUCAMONGA, CA 91701
TEL. (909) 941-3008 FAX (909) 941-8211

PLAN NOTES:

1. REFER TO GENERAL NOTES, DRAWING E0.1, FOR ADDITIONAL REQUIREMENTS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL CEILING MOUNTED DEVICES WITH THE ARCHITECTURAL REFLECTED CEILING PLAN.
3. THE CONTRACTOR SHALL NOTE THAT THE DRAWING IS DIAGRAMMATIC. EXACT ROUTING OF NEW CONDUITS AND LOCATION OF JUNCTION BOXES, SAFETY SWITCHES, DISCONNECT SWITCHES, PULL BOXES, ECT. SHALL BE COORDINATED AND DETERMINED IN THE FIELD. NEW CONDUIT, JUNCTION BOXES, SAFETY SWITCHES, DISCONNECT SWITCHES, PULL BOXES, ECT. SHALL BE ROUTED / PLACED IN SUCH A MANNER AS TO ADHERE TO ALL APPLICABLE CODES AND TO AVOID INTERFERENCE WITH EXISTING BUILDING STRUCTURES, UTILITIES AND THE WORK BEING PERFORMED BY OTHER TRADES. ALL EXTERIOR CONDUIT, FITTINGS, JUNCTION BOXES AND PULL BOXES TO BE WEATHER PROOF TYPE: NEMA 3R.
4. CONTRACTOR TO COORDINATE FINAL POWER LOCATIONS FOR ALL EQUIPMENT IN THE FIELD WITH THE ARCHITECT / CLIENT PRIOR TO START OF WORK.
5. CONTRACTOR TO PROVIDE ENGRAVED LABELING AT EACH RECEPTACLE, DATA OUTLET, JUNCTION BOX, DISCONNECT SWITCH, ECT. DISPLAYING THE IDF OR PANEL (WITH CIRCUIT) FEEDING THE DATA OUTLET, RECEPTACLE, JUNCTION BOX, DISCONNECT SWITCH, ECT.
6. CONDUIT AND WIRE INDICATED ON THE SINGLE LINE DIAGRAM, WHETHER SHOWN ON THIS DRAWING OR NOT, SHALL BE A PART OF THIS CONTRACT AND THE RESPONSIBILITY OF THIS CONTRACTOR TO PROVIDE REQUIRED ROUTING TO MEET THE INTENT OF THESE PLANS AND SPECIFICATIONS.
7. THE CONTRACTOR SHALL REFER TO THE MECHANICAL AND PLUMBING DRAWINGS FOR EXACT EQUIPMENT LOCATIONS AND ELECTRICAL CONNECTIONS REQUIREMENTS. CONTRACTOR SHALL PROVIDE ALL POWER AND CONTROL CONNECTIONS AS INDICATED ON THE MECHANICAL AND PLUMBING DRAWINGS.
8. CONTRACTOR SHALL ROUTE ELECTRICAL CONDUITS IN THE SAME ROUTE AS REFRIGERATION PIPING. CONTRACTOR TO COORDINATE WITH THE MECHANICAL AND PLUMBING DRAWINGS PRIOR TO START OF WORK TO DETERMINE EXACT ROUTE.
9. SEE SINGLE LINE DIAGRAM FOR CONDUIT SIZE, WIRE SIZE AND QUANTITIES REQUIRED FOR ALL ELECTRICAL EQUIPMENT.
10. WHERE "OPEN WIRING" IS INSTALLED IN INACCESSIBLE CEILING SPACES THE CONTRACTOR SHALL PROVIDE A COMPLETE CONDUIT SYSTEM FOR ROUTING OF THE SUBJECT WIRE/CABLE.
11. TO HRU-1 (CONTROLS). TYPICAL FC1-2 THRU FC1-4

ROOM #	ROOM NAME	ROOM #	ROOM NAME
101	LOBBY	201	BAT. CHIEF
102	RR 1	202	BALCONY
103	CAPT. OFFICE	203	BC RR
104	OFFICE	204	DORM 1
105	ELEV	205	RR
106	FITNESS	206	ELEV
107	STAIRWAY 1	207	RR 3
108	RR	208	BALCONY
109	ELECT.	209	CAPTAIN
110	HALLWAY	210	DORM 2
111	CUST.	211	DORM 3
112	EL MACH.	212	LAUNDRY
113	STOR	213	HALLWAY
114	TELECOM	214	ACCESSIBLE RR
115	TRAINING CLASSROOM	215	VEST
116	APPARATUS BAY	216	STOR 3
117	YARD ST	217	PANTRY
118	DECON	218	KITCHEN
119	EMS STOR.	219	DINING
120	TURNOUT	220	DAYROOM
121	COMP	221	DECK
122	SHOP	222	SLIDE POLE DECK
123	HOSE DRY STOR		
124	FR		
125	VESTIBULE		
126	STAIRWAY 2		

ROOM LEGEND

Not for permitting or construction

PBK
ARCHITECT PBK Architects, Inc.
PBK.com
SAN LUIS OBISPO
1327 Archer Street, Suite 110
San Luis Obispo, CA 93401
805-329-3076

FIRE STATION #44
COASTSIDE FIRE PROTECTION DISTRICT

501 STETSON STREET
MOSS BEACH, CA 94038

100% CD SET

COASTSIDE FIRE PROTECTION DISTRICT EST. 2001

BID SET

KEY PLAN
PLAN NORTH
TRUE NORTH

REGISTERED PROFESSIONAL ENGINEER
RICARDO E. SUSTAITA
No. E17229
6/30/26
STATE OF CALIFORNIA

CLIENT
COASTSIDE FIRE PROTECTION DISTRICT
PROJECT NUMBER
230137
DATE 2/14/2025
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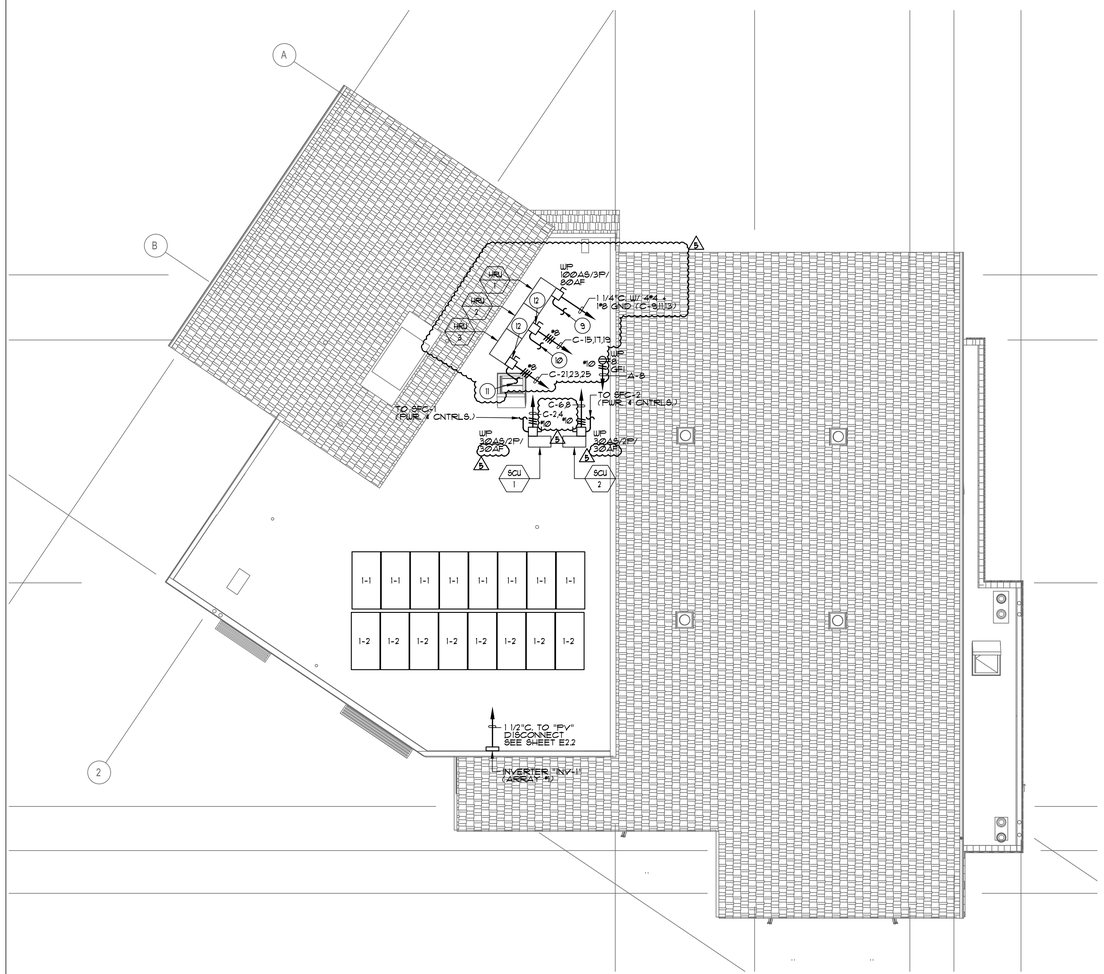
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5	ADDENDUM #5	10/23/26

MECHANICAL POWER PLANS

This document is for plan review only

E2.4



1 ROOF PLAN

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

2 NOT USED

SCALE: NONE

PLAN NOTES:

1. REFER TO GENERAL NOTES, DRAWING E0.1, FOR ADDITIONAL REQUIREMENTS.
2. SEE SINGLE LINE DIAGRAM, DRAWING E0.2 FOR CONDUIT SIZE AND WIRE SIZE AND QUANTITIES REQUIRED FOR ALL ELECTRICAL EQUIPMENT.
3. CONDUIT AND WIRE INDICATED ON THE SINGLE LINE DIAGRAM, WHETHER SHOWN ON THIS DRAWING OR NOT, SHALL BE A PART OF THIS CONTRACT AND THE RESPONSIBILITY OF THIS CONTRACTOR TO PROVIDE REQUIRED ROUTING TO MEET THE INTENT OF THESE PLANS AND SPECIFICATIONS.
4. THE CONTRACTOR SHALL NOTE THAT THE DRAWING IS DIAGRAMMATIC. EXACT ROUTING OF NEW CONDUITS AND LOCATION OF JUNCTION BOXES, SAFETY SWITCHES, DISCONNECT SWITCHES, PULL BOXES, ECT. SHALL BE COORDINATED AND DETERMINED IN THE FIELD. NEW CONDUIT, JUNCTION BOXES, SAFETY SWITCHES, DISCONNECT SWITCHES, PULL BOXES, ECT. SHALL BE ROUTED / PLACED IN SUCH A MANNER AS TO ADHERE TO ALL APPLICABLE CODES AND TO AVOID INTERFERENCE WITH EXISTING BUILDING STRUCTURES, UTILITIES AND THE WORK BEING PERFORMED BY OTHER TRADES. ALL EXTERIOR CONDUIT, FITTINGS, JUNCTION BOXES AND PULL BOXES TO BE WEATHER PROOF TYPE: NEMA 3R.
5. CONTRACTOR TO PROVIDE ENGRAVED LABELING AT EACH RECEPTACLE, DATA OUTLET, JUNCTION BOX, DISCONNECT SWITCH, ECT. DISPLAYING THE IDF OR PANEL (WITH CIRCUIT) FEEDING THE DATA OUTLET, RECEPTACLE, JUNCTION BOX, DISCONNECT SWITCH, ECT.
6. THE CONTRACTOR SHALL REFER TO THE MECHANICAL AND PLUMBING DRAWINGS FOR EXACT EQUIPMENT LOCATIONS AND ELECTRICAL CONNECTIONS REQUIREMENTS. CONTRACTOR SHALL PROVIDE ALL POWER AND CONTROL CONNECTIONS AS INDICATED ON THE MECHANICAL AND PLUMBING DRAWINGS.
7. CONTRACTOR SHALL ROUTE ELECTRICAL CONDUITS IN THE SAME ROUTE AS REFRIGERATION PIPING. CONTRACTOR TO COORDINATE WITH THE MECHANICAL AND PLUMBING DRAWINGS PRIOR TO START OF WORK TO DETERMINE EXACT ROUTE.
8. EXTERIOR MOUNTED DEVICES / RECEPTACLES SHALL BE PROVIDED COMPLETE WITH LOCKING TYPE WEATHERPROOF COVERS AND BE U.L. LISTED FOR WET LOCATIONS WHEN IN USE. COVERS SHALL BE AS MANUFACTURED BY RACO OR APPROVED EQUAL. PLASTIC COVERS NOT ALLOWED.
9. INTERLOCK WITH FC 1-1 THRU FC 2-7 (POWER & CONTROLS).
10. INTERLOCK WITH FC 3-1.
11. INTERLOCK WITH FC 3-2.
12. WP 60A8/3P/35AF.

PV MODULE: PS550M6-24/TH

MODULE Ipmax	MODULE Isc	SOURCE CIRCUIT CURRENT PER 690.8(A)(1)	OVERCURRENT/CONDUCTOR MINIMUM AMPACITY PER 690.8(B)(1)	MODULE VOLTAGE Vmp	MODULE OPEN CIRCUIT VOLTAGE Voc	MAXIMUM FUSE RATING
13.24	13.82	17.275	21.59	41.55	49.59	25

INVERTER	MPPT # STRING #	MODULES PER ARRAY	MODULES PER STRING	STRINGS	kW/STRING STC	STC kW	kW/STRING PTC	PTC kW	INVERTER EFFICIENCY	AC kW	
INV-1	1-1	8	8	1	4.40	4.4	3.312	3.312	0.965	3.196	
INV-1	1-2	8	8	1	4.40	4.4	3.312	3.312	0.965	3.196	
		16		2		8.8		6.624		6.392	17.8
		TOTAL MODULES		TOTAL STRINGS		TOTAL POWER STC (Kw)		TOTAL POWER PTC (Kw)		TOTAL POWER AC (Kw)	AC AMPS @ 208V

ROOM #	ROOM NAME	ROOM #	ROOM NAME
101	LOBBY	201	BAT. CHIEF
102	RR 1	202	BALCONY
103	CAPT. OFFICE	203	BC RR
104	OFFICE	204	DORM 1
105	ELEV	205	RR
106	FITNESS	206	ELEV
107	STAIRWAY 1	207	RR 3
108	RR	208	BALCONY
109	ELECT.	209	CAPTAIN
110	HALLWAY	210	DORM 2
111	CUST.	211	DORM 3
112	EL MACH.	212	LAUNDRY
113	STOR	213	HALLWAY
114	TELECOM	214	ACCESSIBLE RR
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123	HOSE DRY STOR		
124	FR		
125	VESTIBULE		
126	STAIRWAY 2		

ROOM LEGEND

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No. E17229
6/30/26
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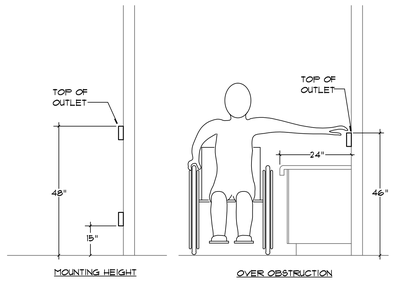
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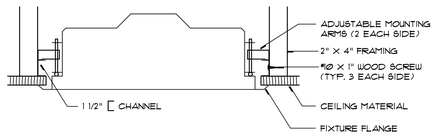
ROOF PLAN

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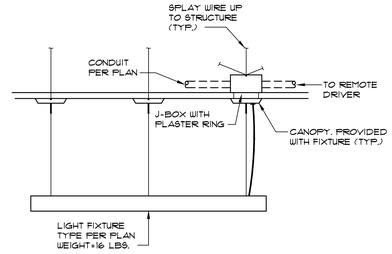
E2.6



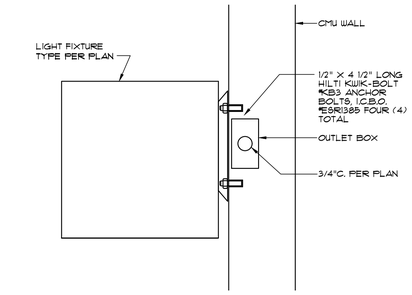
DEVICE MOUNTING HEIGHTS | SCALE: NONE | 1



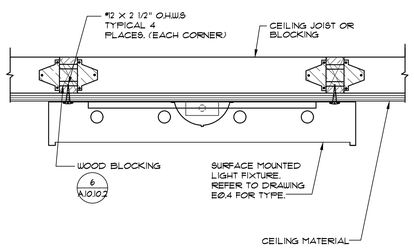
LIGHT FIXTURE - GYP BOARD CEILING | SCALE: NONE | 2



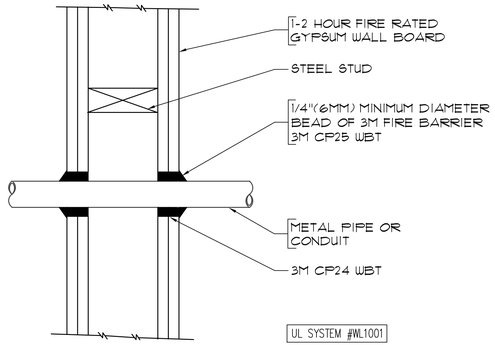
SUSPENDED ROUND FIXTURE | SCALE: NONE | 3



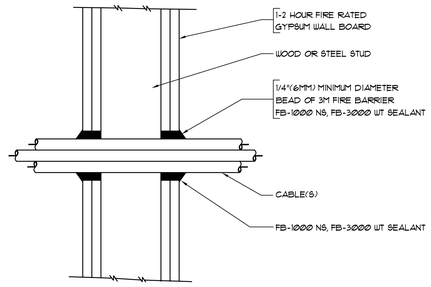
APP BAY - MAP LIGHT | SCALE: NONE | 4



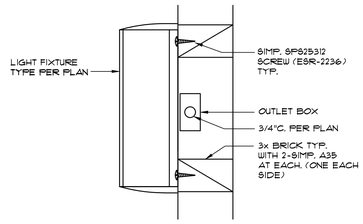
SURFACE MOUNTED FIXTURE | SCALE: NONE | 5



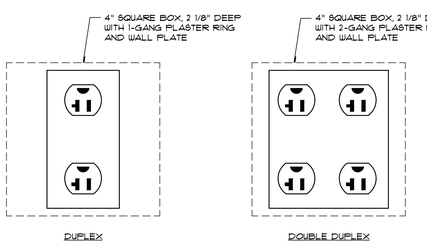
CONDUIT WALL PENETRATION | SCALE: NONE | 6



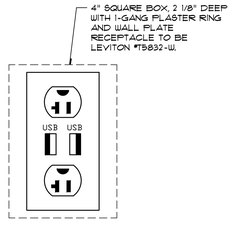
CABLE - WALL PENETRATION | SCALE: NONE | 7



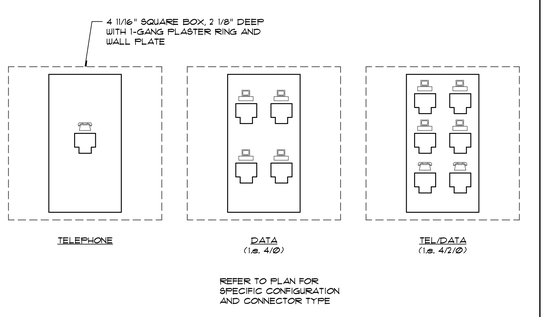
EXTERIOR FIXTURE - WALL MOUNTED | SCALE: NONE | 8



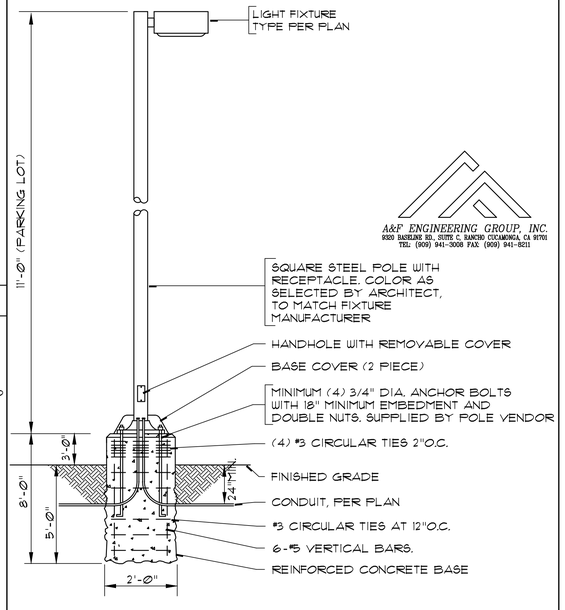
RECPTACLE - FLUSH MOUNTED | SCALE: NONE | 9



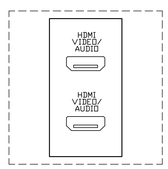
RECEPTACLE / USB OUTLET | SCALE: NONE | 10



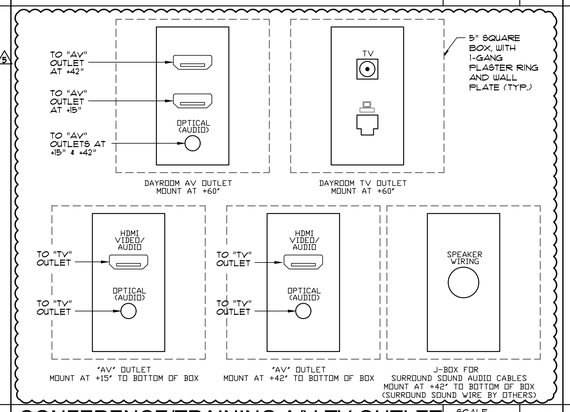
TEL/DATA OUTLET - FLUSH MOUNTED | SCALE: NONE | 11



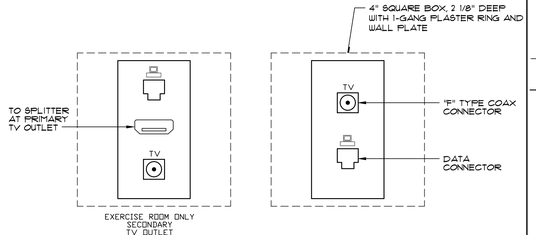
DEVICE MOUNTING HEIGHTS | SCALE: NONE | 15



AUDIO-VIDEO (A/V) OUTLET | SCALE: NONE | 12



CONFERENCE/TRAINING A/V-TV OUTLET | SCALE: NONE | 13



TV OUTLET - FLUSH MOUNTED | SCALE: NONE | 14

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PBK.com
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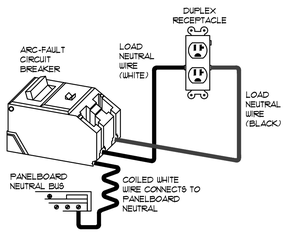
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ELECTRICAL DETAILS

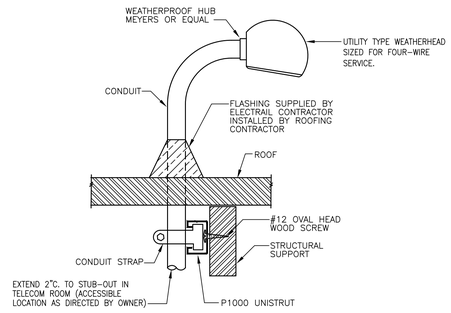
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E3.1

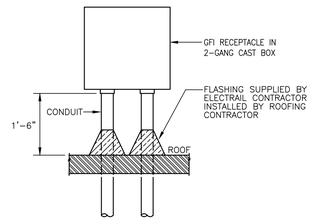


NOTE: ALL RECEPTACLES AND LIGHT FIXTURES INSTALLED IN RESIDENTIAL OCCUPANCY ROOMS SHALL BE PROTECTED BY AN AFCI CIRCUIT BREAKER. REFER TO SHEET A0.4, CODE ANLYSIS, FOR RESIDENTIAL OCCUPANCY BOUNDARY.

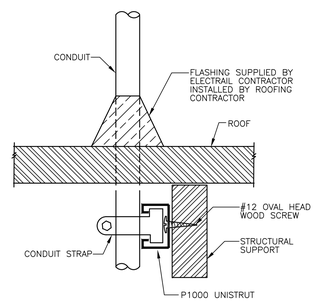
ARC-FAULT CIRCUIT BREAKER WIRING | SCALE: NONE | 1



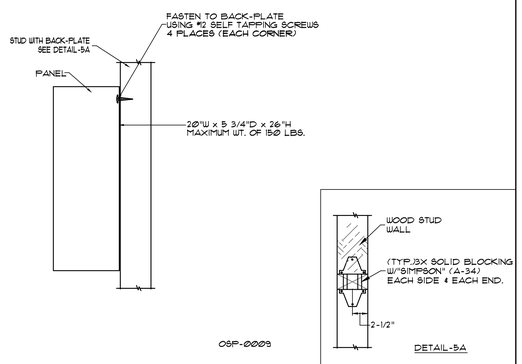
ANTENNA PROVISIONS | SCALE: NONE | 2



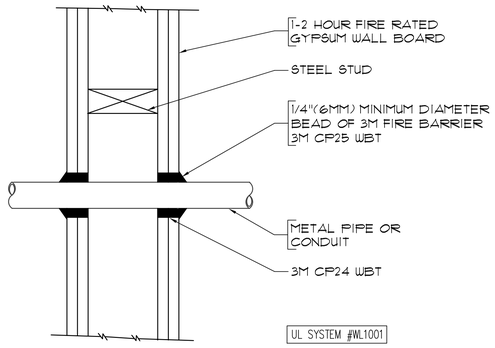
ROOF MOUNTED RECEPTACLE | SCALE: NONE | 3



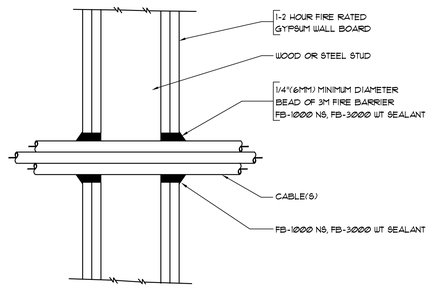
CONDUIT ROOF PENETRATION | SCALE: NONE | 4



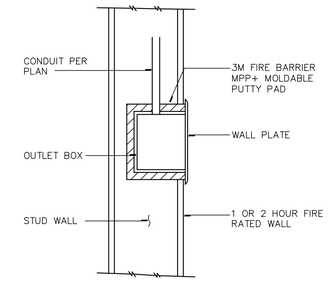
PANEL/CABINET - WALL MOUNTED | SCALE: NONE | 5



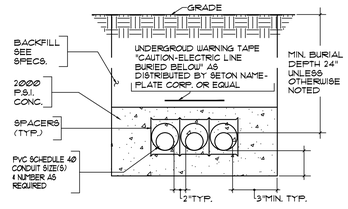
CONDUIT WALL PENETRATION | SCALE: NONE | 6



CABLE - WALL PENETRATION | SCALE: NONE | 7

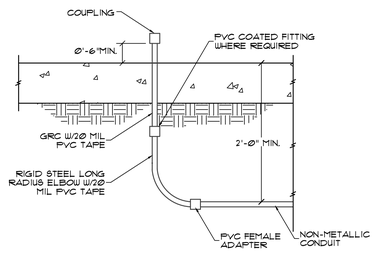


OUTLET IN RATED WALL | SCALE: NONE | 16

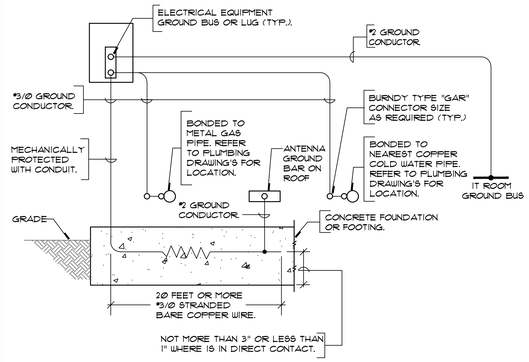


NOTES:
1. SLOPE RUNS A MIN. OF 4" IN 100 FT. BETWEEN MANHOLES OR MANHOLE AND VAULT OR CABLE RISERS.
2. RUN SHALL BE STRAIGHT WITHOUT ANY HIGH OR LOW POINTS BETWEEN ENDS, THE HIGHER END SHALL BE AT A VENTILATED MANHOLE,VAULT, OR CABLE RISER.

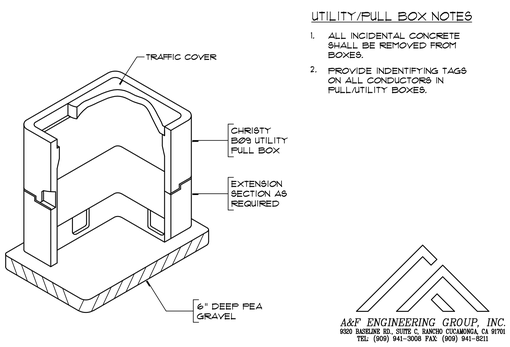
UNDERGROUND DUCT-BANK | SCALE: NONE | 9



CONDUIT STUB-UP DETAIL | SCALE: NONE | 10



SYSTEM GROUNDING | SCALE: NONE | 11



UTILITY/PULL BOX NOTES
1. ALL INCIDENTAL CONCRETE SHALL BE REMOVED FROM BOXES.
2. PROVIDE INDENTIFYING TAGS ON ALL CONDUCTORS IN PULL/UTILITY BOXES.

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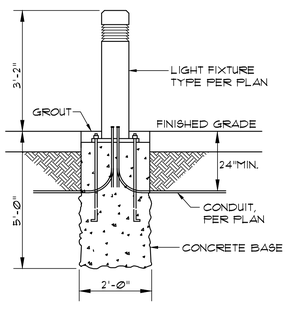
UNDERGROUND UTILITY BOX | SCALE: NONE | 10



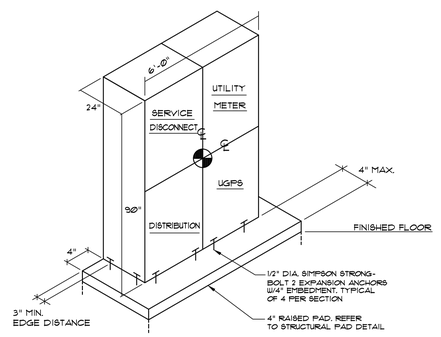
FUEL DISPENSING NOTE:
1. COORDINATE FINAL CONNECTIONS WITH THE VEEDER-ROOT AND FUEL MANAGEMENT SYSTEM CONTRACTORS.

FUEL DISPENSING DIAGRAM | SCALE: NONE | 12

NOT USED | SCALE: NONE | 13



BOLLARD LIGHT FIXTURE | SCALE: NONE | 14



SWITCHBOARD TOTAL WEIGHT = 7,350 LBS.

SERVICE SWBD - FLOOR MOUNTED | SCALE: NONE | 15

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FIRE STATION #44
COASTSIDE FIRE PROTECTION DISTRICT

501 STETSON STREET
MOSS BEACH, CA 94038

100% CD SET

COASTSIDE FIRE PROTECTION DISTRICT EST 2007

BID SET

KEY PLAN

PLAN NORTH | TRUE NORTH

REGISTERED PROFESSIONAL ENGINEER RICHARD E. SUTTON No. 017229 6/30/26 STATE OF CALIFORNIA

CLIENT
COASTSIDE FIRE PROTECTION DISTRICT

PROJECT NUMBER 230137

DATE 2/14/2025

DRAWN BY: LS CHKED BY: RES

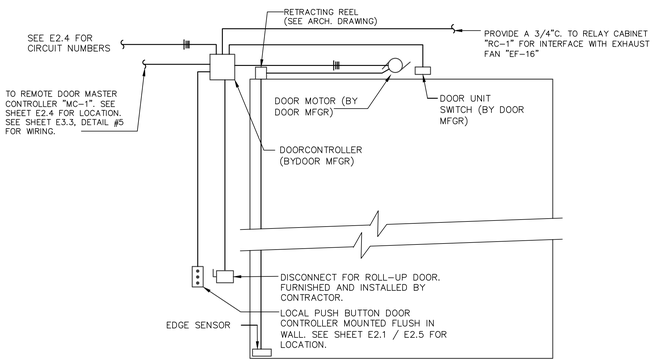
REVISIONS

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2	PLAN CHECK #2 RESPONSE	03/13/26
3	PLAN CHECK #3 RESPONSE	05/22/26
4	PLAN CHECK #4 RESPONSE	08/25/26
5	ADDENDUM #5	10/23/26

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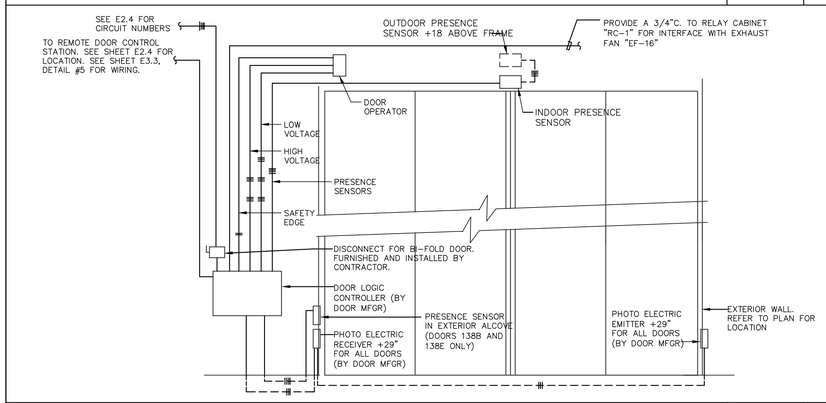
ELECTRICAL DETAILS

E3.2



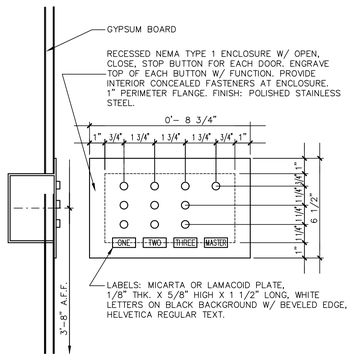
SECTIONAL DOOR - WIRING DIAGRAM

SCALE: NONE | 1



BI-FOLD DOOR - WIRING DIAGRAM

SCALE: NONE | 2

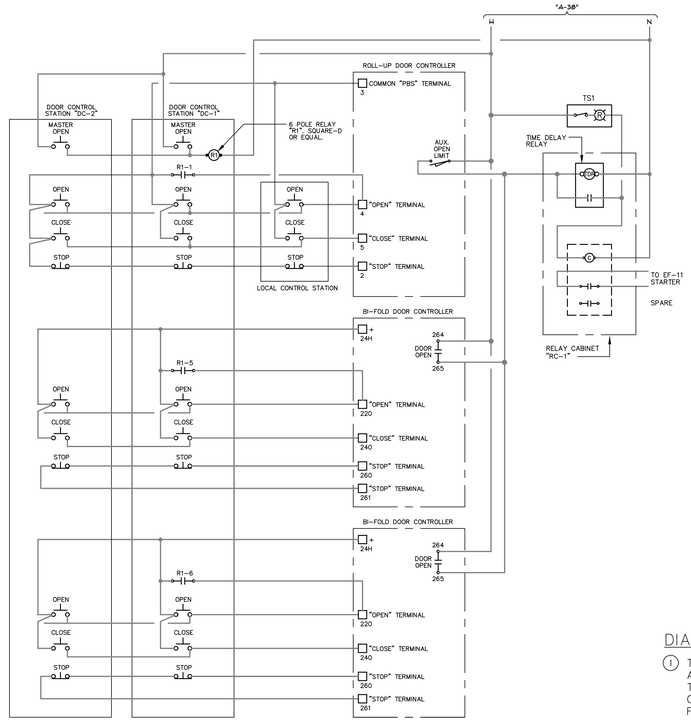


DOOR CONTROL STATION "DC-1" / "DC-2"

SCALE: NONE | 3

NOT USED

SCALE: NONE | 6

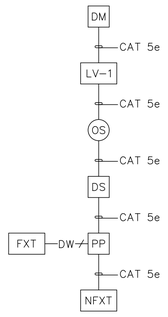


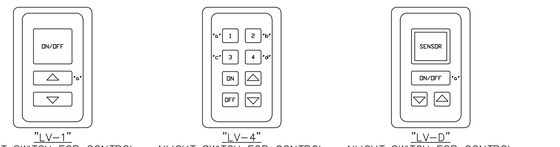
ROLL-UP DOOR CONTROL DIAGRAM

SCALE: NONE | 5

DETAIL NOTES:

1. THE LIGHTING CONTROL SYSTEM SHALL BE CONFIGURED TO CONTROL THE ROOM LIGHTS BASED ON THE SUBSCRIPT LETTER DESIGNATION ADJACENT TO EACH FIXTURE.
2. THE LIGHTING CONTROL SYSTEM SHALL BE AS MANUFACTURED ACUITY CONTROLS "nLIGHT", OR APPROVED EQUAL, AND SHALL BE PROGRAMMED AND COMMISSIONED BY THE SYSTEM MANUFACTURER.
3. THE LIGHTING CONTROL SYSTEM (INTERIOR AND EXTERIOR) SHALL BE PROGRAMMED PER THE OWNER'S REQUIREMENTS.
4. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH (8) HOURS OF TRAINING FOR THE LIGHTING CONTROL SYSTEM. TRAINING SHALL BE PROVIDED FOR FOUR (4) CLIENT CHOSEN EMPLOYEES. CONTRACTOR TO COORDINATE WITH THE ARCHITECT FOR SCHEDULING OF TRAINING.





- OS — OCCUPANCY SENSOR #nCM PDT10 RJB
- DS — DAYLIGHT SENSOR. #nCM PC DZ RJB
- NFXT — nLIGHT ENABLED LIGHT FIXTURE
- PP — nLIGHT RELAY/ POWER PACK
- DM — DEMAND RESPONSE MODULE
- LV-D — nLIGHT WALLSTATION DIMMER/OCCUPANT SENSOR #nWSX PDT LV DX WH
- LV-* — nLIGHT WALLSTATION DIMMER/SWITCH #nPODM DX WH * = DEPENDING ON NUBMER
- FXT — 0-10V. DIMMING LIGHT FIXTURE

DIAGRAM NOTES:

1. THE DOORS SHALL BE PROGRAMMED TO AUTOMATICALLY CLOSE 20 MINUTES AFTER THE "MASTER" PUSH BUTTON IS DEPRESSED. COORDINATE ACTUAL TIME DELAY WITH THE FIRE DEPARTMENT.
2. THE DOOR CONTROLLERS SHALL BE INTERFACED WITH THE APP BAY EXHAUST FAN. COORDINATE ACTUAL TIME DELAY WITH THE FIRE DEPARTMENT.
3. CONNECTIONS TO THE DOOR CONTROLLERS SHALL BE COORDINATED WITH THE APP BAY DOOR CONTRACTOR.

LIGHTING CONTROL DIAGRAM

SCALE: NONE | 4

NOT USED

SCALE: NONE | 7

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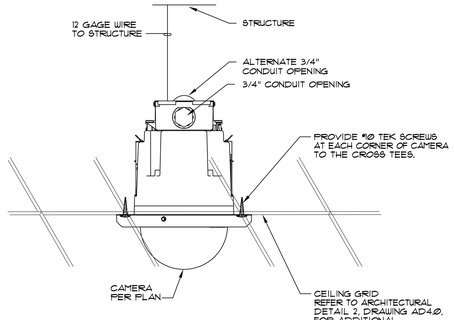
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5	ADDENDUM #6	10/23/26

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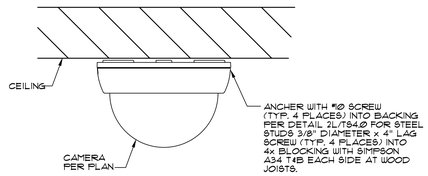
ELECTRICAL DETAILS

E3.3



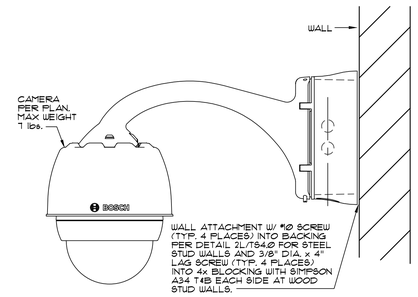
CAMERA SEMI-FLUSH IN T-BAR CEILING

SCALE: NONE | 1



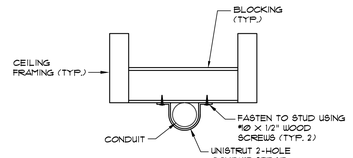
CAMERA SURFACE CEILING MOUNTED

SCALE: NONE | 2



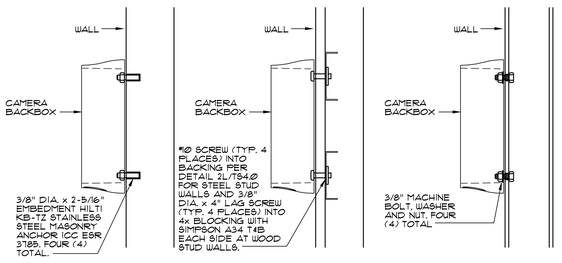
CAMERA WALL MOUNTED

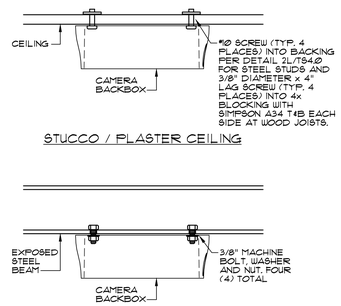
SCALE: NONE | 3



CONDUIT SUPPORT DETAIL

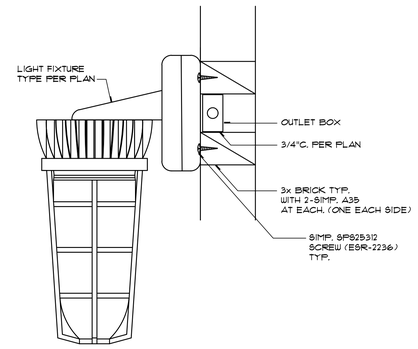
SCALE: NONE | 4





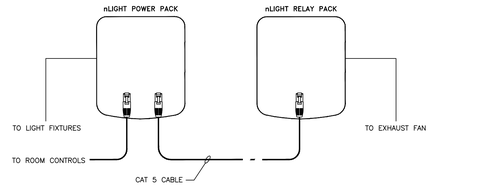
CAMERA BACK-BOX MOUNTING

SCALE: NONE | 5



RED GLOBE FIXTURE MOUNTING

SCALE: NONE | 6

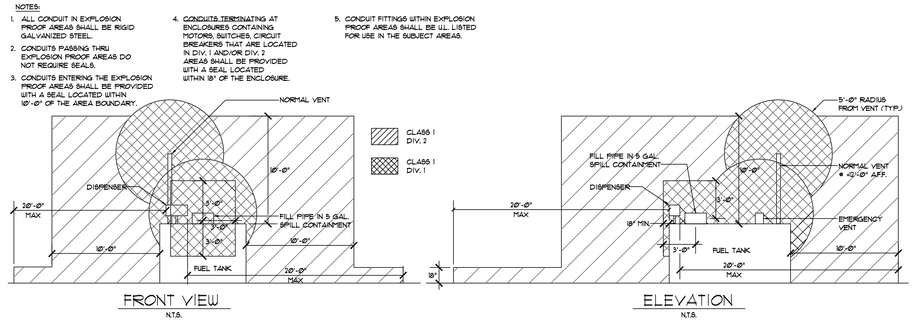


LIGHT AND EXHAUST FAN CONTROL

SCALE: NONE | 7

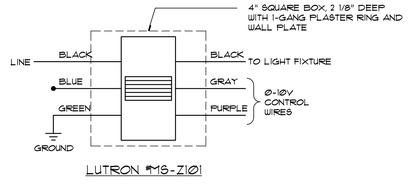
NOTES:

1. ALL CONDUIT IN EXPLOSION PROOF AREAS SHALL BE RIGID GALVANIZED STEEL.
2. CONDUITS PASSING THRU EXPLOSION PROOF AREAS DO NOT REQUIRE SEALS.
3. CONDUITS ENTERING THE EXPLOSION PROOF AREAS SHALL BE PROVIDED WITH A SEAL LOCATED WITHIN 18"-0" OF THE AREA BOUNDARY.
4. CONDUITS TERMINATING AT ENCLOSURES CONTAINING MOTORS, SWITCHES, CIRCUIT BREAKERS THAT ARE LOCATED IN DIV. 1 AND/OR DIV. 2 AREAS SHALL BE PROVIDED WITH A SEAL LOCATED WITHIN 18" OF THE ENCLOSURE.
5. CONDUIT FITTINGS WITHIN EXPLOSION PROOF AREAS SHALL BE ILL. LISTED FOR USE IN THE SUBJECT AREAS.



FUEL TANK - EXPLOSION PROOF AREAS

SCALE: NONE | 8



WALL SWITCH OCCUPANT SENSOR

SCALE: NONE | 9

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ELECTRICAL DETAILS

E3.4

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