

11220 DUNCAN AVENUE
LYNWOOD ,CALIFORNIA, 90262

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MECHANICAL ANCHORS IN CONCRETE		STRUCTURAL STEEL	GENERAL NOTES																															
1. MECHANICAL ANCHOR SYSTEMS: A. SIMPSON 'STRONG-BOLT Z' (ESR-3037). B. HILTI 'KB-T2Z' (ESR-4266). C. SIMPSON 'TITEN HD' (ESR-2713). D. HILTI 'KH4EZ' (ESR-3027). E. USE ONLY MECHANICAL ANCHOR SYSTEMS THAT HAVE BEEN PRE-QUALIFIED IN ACCORDANCE WITH THE PROVISIONS OF ICC-ES AC108, AND APPROVED FOR USE IN CRACKED CONCRETE. ANCHOR SYSTEMS SHALL BE INSTALLED PER THE REQUIREMENTS OF THE ICC-ES EVALUATION SERVICES REPORT FOR THE SPECIFIC ANCHOR, OR AS REQUIRED BY THE MANUFACTURER. F. ANCHOR DIAMETER REFERS TO THE ANCHOR SIZE AND NOT THE DIAMETER OF THE HOLE. REFER TO THE MANUFACTURER'S INSTRUCTIONS FOR REQUIRED DIAMETER OF DRILLED HOLE. 2. WHERE THE MANUFACTURER'S INSTALLATION INSTRUCTIONS OR APPLICABLE ICC-ES CALL FOR THE APPLICATION OF AN INSTALLATION TORQUE, THE SPECIFIED TORQUE SHALL BE APPLIED WITH A CALIBRATED TORQUE WRENCH. FOLLOWING ATTAINMENT OF 10% OF THE SPECIFIED TORQUE, 100% OF THE SPECIFIED TORQUE SHALL BE REACHED WITHIN 7 OR FEWER COMPLETE TURNS OF NUT. THE SPECIFIED INSTALLATION TORQUE SHALL NOT BE EXCEEDED. 3. USE OF ZINC-COATED CARBON STEEL ANCHORS IS LIMITED TO DRY, INTERIOR LOCATIONS, UNLESS OTHERWISE NOTED. PROVIDE STAINLESS STEEL OR HOT-DIP GALVANIZED ANCHORS FOR APPLICATIONS EXPOSED TO EXTERIOR WEATHER CONDITIONS. 4. WHERE MECHANICAL ANCHORS ARE USED IN A STANDOFF CONFIGURATION (I.E., WHERE THE ATTACHMENT IS PREPARED FROM THE CONCRETE IN WHICH THE ANCHOR IS INSTALLED), A NUT AND WASHER SHALL BE PROVIDED AT THE CONCRETE SURFACE TO FACILITATE SETTING OF THE ANCHOR AND TO TRANSMIT AXIAL COMPRESSION LOADS INTO CONCRETE. 5. THE SPECIAL INSPECTOR SHALL BE ON THE JOBSITE CONTINUOUSLY DURING ANCHOR INSTALLATIONS, UNLESS OTHERWISE NOTED IN ICC-ES ESR. TO VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, CONCRETE TYPE, CONCRETE COMPRESSIVE STRENGTH, HOLE DIMENSIONS, ANCHOR SPACINGS, EDGE DISTANCES, SLAB THICKNESS, ANCHOR EMBEDMENT, AND TIGHTENING TORQUE. 6. THE TENSION TESTING OF THE MECHANICAL ANCHORS SHALL BE DONE IN THE PRESENCE OF THE SPECIAL INSPECTOR AND REPORT OF THE TEST RESULTS SHALL BE SUBMITTED TO THE ENFORCEMENT AGENCY. IF ANY ANCHORS FAIL THE TENSION-TESTING REQUIREMENTS, THE ADDITIONAL TESTING REQUIREMENTS SHALL BE ACCEPTABLE TO THE ENFORCEMENT AGENCY. 7. TEST QUANTITY OF ANCHORS AS NOTED BELOW: APPLICATION QUANTITY STRUCTURAL 100% OF BOLTS (10% FOR SILL PLATES) NON-STRUCTURAL 50% OF BOLTS 8. ANCHORS TO BE TESTED SHALL BE SELECTED AT RANDOM BY THE INSPECTOR. 9. ALL TESTING SHALL BE PERFORMED A MINIMUM OF 24 HOURS AFTER INSTALLATION. 10. UNDERCUT ANCHORS THAT ALLOW VISUAL CONFIRMATION OF FULL SET NEED NOT TO BE TESTED, UNLESS OTHERWISE NOTED BY ENFORCEMENT AGENCY OR ENGINEER OF RECORD. 11. WHERE THE DESIGN TENSION ON ANCHORS IS LESS THAN 100 POUNDS AND THOSE ANCHORS ARE CLEARLY IDENTIFIED ON THE CONTRACT DOCUMENTS, ONLY 10 PERCENT OF THOSE ANCHORS NEED BE TESTED, UNLESS OTHERWISE NOTED BY ENFORCEMENT AGENCY OR ENGINEER OF RECORD. 12. THE FOLLOWING CRITERIA APPLY FOR THE ACCEPTANCE OF INSTALLED ANCHORS: A. HYDRAULIC RAM METHOD: THE ANCHOR SHALL HAVE NO OBSERVABLE MOVEMENT AT THE APPLICABLE TEST LOAD. FOR MECHANICAL ANCHORS, A PRACTICAL WAY TO DETERMINE OBSERVABLE MOVEMENTS IS THAT THE WASHER UNDER THE NUT BECOMES LOOSE. B. TORQUE WRENCH METHOD: THE APPLICABLE TEST TORQUE MUST BE REACHED WITHIN ONE-HALF (1/2) TURN OF THE NUT. C. USE OF CALIBRATED SPRING LOADED DEVICES. 13. IF ANY ANCHOR FAILS TESTING, TEST ALL ANCHORS OF THE SAME TYPE, INSTALLED BY THE SAME TRADE, NOT PREVIOUSLY TESTED UNTIL TWENTY (20) CONSECUTIVE ANCHOR PASS, THEN RESUME THE INITIAL TEST FREQUENCY. 14. WHEN INSTALLING DRILLED-IN ANCHORS IN EXISTING NON-PRESTRESSED REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND DRILLED-IN ANCHOR. 15. IF REBAR IS ENCOUNTERED DURING THE DRILLING, THE CONTRACTOR SHALL IMMEDIATELY TERMINATE DRILLING AND CONTACT THE ENGINEER OF RECORD. THE ENGINEER OF RECORD WILL AUTHORIZE USING ONE OF THE FOLLOWING PROCEDURES: A. IF THE ANCHOR MAY BE SHIFTED, FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT THE MINIMUM SPACING BETWEEN AN ABANDONED HOLE AND A DRILLED HOLE USED FOR A POST INSTALLED ANCHOR SHALL NOT BE LESS THAN 1-1/2 ANCHOR DIAMETERS UNLESS OTHERWISE APPROVED BY THE ENFORCEMENT AGENCY. B. IF THE ANCHOR LOCATION MAY NOT BE SHIFTED, CORE AN OVERSIZE HOLE AT THE DIRECTION OF THE ENGINEER OF RECORD AND GROUT AN APPROVED ANCHOR PLACE. 16. IF THE CONCRETE CRACKS DURING THE INSTALLATION OF THE ANCHOR, THE ANCHOR SHALL BE REMOVED OR ABANDONED. 17. MAXIMUM INSTALLATION TORQUE SHALL BE PER MFR'S CODE EVALUATION REPORT.		1. STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED BY AN APPROVED AND LICENSED FABRICATOR IN ACCORDANCE WITH THE AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS (LATEST EDITION), AND WITH CHAPTER 22A OF THE CODE. 2. ALL STRUCTURAL STEEL SHALL CONFORM TO THE ASTM DESIGNATION AS INDICATED BELOW (UNO): A992 A501, GRADE B A307, GRADE A F3125, GRADE F 1852 HIGH-STRENGTH BOLTS A307, GRADE A F1554, GRADE 36 UNO 3. THE STRUCTURAL STEEL FABRICATOR SHALL FURNISH SHOP DRAWINGS TO THE ARCHITECT OF ALL STEEL FOR ARCHITECTS, AND STRUCTURAL ENGINEERS, REVIEW AND APPROVAL BEFORE FABRICATION. 4. BOLT HOLES USED IN STEEL SHALL BE 1/16" LARGER IN DIAMETER THAN NOMINAL SIZE OF BOLT USED, EXCEPT AS NOTED. 5. ALL STRUCTURAL STEEL SURFACES THAT ARE ENCASED IN CONCRETE, OR MASONRY, SPRAY ON FIREPROOFING, OR ARE ENCASED BY BUILDING FINISH, SHALL BE LEFT UNPAINTED. 6. ALL WELDING IS TO BE DONE BY CERTIFIED WELDERS APPROVED USING E70XX ELECTRODES (UNO). ALL WELDS SHALL BE IN CONFORMITY WITH THE PROJECT SPECIFICATIONS AND THE CODE FOR WELDING IN BUILDING CONSTRUCTION AWS D1.1 LATEST REVISION OF THE AMERICAN WELDING SOCIETY. SEE SPECIAL INSPECTIONS SECTION FOR WELDING INSPECTION REQUIREMENTS. 7. WELD LENGTHS CALLED FOR ON PLANS ARE THE NET EFFECTIVE LENGTH REQUIRED, WHERE FILLET WELD SYMBOL IS GIVEN WITHOUT INDICATION OF SIZE, USE MINIMUM SIZE WELDS AS SPECIFIED IN AISC 360, TABLE J2.4. 8. ALL EXPOSED STRUCTURAL STEEL AND MISCELLANEOUS METAL SHALL BE HOT DIP GALVANIZED AFTER FABRICATION. 9. ALL GROOVE WELDS SHALL BE COMPLETE JOINT PENETRATION UNLESS NOTED OTHERWISE. 10. WHERE FINISH IS ATTACHED TO STRUCTURAL STEEL, PROVIDE 1/2"DIA. BOLT HOLES @ 48" OC @ W, C, L MEMBERS AND 12"/6" WELDED STUDS @ 48" OC @ TUBE & PIPE MEMBERS FOR ATTACHMENT OF NAILERS, SEE ARCHITECTURAL DRAWINGS FOR FINISHES. 11. SEISMIC LOAD RESISTING SYSTEM (SLRS) IS DEFINED AS THE ASSEMBLY OF STRUCTURAL ELEMENTS IN THE BUILDING THAT RESISTS SEISMIC LOADS, INCLUDING COLUMNS, BEAMS, GIRDERS, STRUTS, COLLECTORS, CHORDS AND BRACES, AND THE CONNECTIONS BETWEEN THESE ELEMENTS SPECIFICALLY DESIGN TO RESIST SEISMIC FORCES, AS DESIGNATED ON THE DRAWINGS. 12. WELD MATERIALS USED IN SLRS WELD CONNECTIONS SHALL CONFORM TO THE FOLLOWING TOUGHNESS REQUIREMENTS: A. WELD CONNECTIONS SHALL BE MADE WITH A FILLER METAL THAT CAN PRODUCE WELDS THAT HAVE A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT-LB AT 0 DEGREES F AS DETERMINED BY THE APPROPRIATE AWS CLASSIFICATION TEST METHOD. B. WELDED CONNECTIONS DESIGNATED AS 'DEMAND CRITICAL' SHALL BE MADE WITH A FILLER METAL, CAPABLE OF PROVIDING A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT-LB AT 20 DEGREES F AS DETERMINED BY THE APPROPRIATE AWS CLASSIFICATION TEST METHOD, AND 40 FT-LB AT 70 DEGREES F AS DETERMINED BY APPENDIX X OF ANSI/AISC 341.	1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES. 2. ALL DRAWINGS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR ARCHITECT. 3. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK. 4. ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING CODES: TITLE 24, PART 2 CALIFORNIA CODE OF REGULATIONS WITH 2025 CALIFORNIA AMENDMENTS AND LATEST REVISIONS REFERRED TO HERE AS "THE CODE". AND ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK, INCLUDING THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY, AND THOSE CODES & STANDARDS LISTED IN THESE NOTES AND SPECIFICATIONS. 5. SEE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING: A. SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS, EXCEPT AS NOTED. B. SIZE AND LOCATION OF ALL INTERIOR AND EXTERIOR NON-BEARING PARTITIONS. C. SIZE AND LOCATION OF ALL CONCRETE CURBS, EQUIPMENT PADS, PITS, FLOOR DRAINS, SLOPES, DEPRESSION AREAS, CHANGE IN LEVEL, CHAMFERS, GROOVES, INSERTS, ETC. D. SIZE AND LOCATION OF ALL FLOOR AND ROOF OPENINGS EXCEPT AS SHOWN. E. FLOOR AND ROOF FINISHES. F. DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS. 6. SEE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR THE FOLLOWING: A. PIPE RUNS, SLEEVES, HANGERS, TRENCHES, WALL AND SLAB OPENINGS, ETC., EXCEPT AS SHOWN OR NOTED. B. ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS. C. CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL OR PLUMBING FIXTURES. E. SIZE AND LOCATION OF MACHINE OR EQUIPMENT BASES, ANCHOR BOLTS FOR MOTOR MOUNTS. 7. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS. 8. OPENINGS, POCKETS, ETC., LARGER THAN 6" SHALL NOT BE PLACED IN CONCRETE SLABS, DECKS, WALLS, UNLESS SPECIALLY DETAILED ON THE STRUCTURAL DRAWINGS. NOTIFY THE STRUCTURAL ENGINEER WHEN DRAWINGS BY OTHERS SHOW OPENINGS, POCKETS, ETC., LARGER THAN 6" NOT SHOWN ON THE STRUCTURAL DRAWINGS, BUT WHICH ARE LOCATED IN STRUCTURAL MEMBERS. FOR ANY FURTHER RESTRICTIONS ON OPENINGS IN STRUCTURAL ELEMENTS, SEE APPLICABLE SECTIONS BELOW. 9. PIPES LARGER THAN 1 1/2" DIAMETER SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE EXCEPT WHERE SPECIFICALLY APPROVED. NO CONDUITS SHALL BE PLACED IN CONCRETE FILL OVER METAL DECKING. 10. ASTM SPECIFICATIONS ON THE DRAWINGS SHALL BE OF THE LATEST REVISION. 11. CONTRACTOR SHALL INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FIELD EXCAVATIONS OR BURIED STRUCTURES, SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS, ETC. IF ANY SUCH STRUCTURES ARE FOUND, STRUCTURAL ENGINEER SHALL BE NOTIFIED IMMEDIATELY. 12. CONSTRUCTION MATERIAL SHALL BE SPREAD OUT IF PLACED ON FRAMED ROOF OR FLOOR. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT. PROVIDE ADEQUATE SHORING AND / OR BRACING WHERE STRUCTURE HAS NOT ATTAINED DESIGN STRENGTH.																															
		LOADING 1. DESIGN LOADS FLOOR LIVE LOAD = 40 PSF ROOF LIVE LOAD = 20 PSF 2. WIND ANALYSIS PER CHAPTER 16A OF THE CODE RISK CATEGORY = III BASIC WIND SPEED, V = mph EXPOSURE = C 3. SEISMIC ANALYSIS PER CHAPTER 16A OF THE CODE UTILIZING THE FOLLOWING: A. SYSTEM - NONSTRUCTURAL COMPONENTS - AIR-SIDE HVACR... <table><thead><tr><th colspan="4">SEISMIC PARAMETERS</th></tr></thead><tbody><tr><td>S_s = 1.93g</td><td></td><td>S_{DS} = 1.39g</td><td></td></tr><tr><td>S₁ = 0.80g</td><td></td><td>S_{D1} = 1.15g</td><td></td></tr><tr><td colspan="2"></td><td>DESIGN CATEGORY =</td><td>E</td></tr><tr><td colspan="2"></td><td>SITE CLASS =</td><td>DEFAULT</td></tr><tr><td>I_p = 1.0</td><td></td><td></td><td></td></tr><tr><td>R_{PO} = 2.0</td><td></td><td></td><td></td></tr><tr><td>C_{AS} = 1.4</td><td></td><td>Ω_{CP} = 2.0</td><td></td></tr></tbody></table>	SEISMIC PARAMETERS				S _s = 1.93g		S _{DS} = 1.39g		S ₁ = 0.80g		S _{D1} = 1.15g				DESIGN CATEGORY =	E			SITE CLASS =	DEFAULT	I _p = 1.0				R _{PO} = 2.0				C _{AS} = 1.4		Ω _{CP} = 2.0	
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		STRUCTURAL OBSERVATIONS 1. PERIODIC STRUCTURAL OBSERVATION SHALL BE PERFORMED BY THE ENGINEER OF RECORD AT CRITICAL STAGES OF CONSTRUCTION IN ACCORDANCE WITH CBC 1704A. STRUCTURAL OBSERVATION DOES NOT RELIEVE THE CONTRACTOR FROM THE REQUIREMENTS OF SPECIAL INSPECTION. SEE 'SPECIAL INSPECTION NOTES' FOR ITEMS REQUIRING INSPECTION. 2. NOTIFY THE ENGINEER AT SIGNIFICANT CONSTRUCTION STAGES 72 HOURS IN ADVANCE AND PROVIDE ACCESS FOR THE FOLLOWING STRUCTURAL OBSERVATIONS: A. FOUNDATIONS a. REINFORCEMENT b. OTHER EMBEDDED ELEMENTS B. STEEL FRAMING a. GENERAL C. CONCRETE a. REINFORCING LAYOUT b. PREPARATION OF SHOTCRETE PANEL (IF SHOTCRETE IS USED) c. OPENING OF SHOTCRETE TEST PANEL d. POST-TENSIONING LAYOUT D. MASONRY a. REINFORCING LAYOUT E. WOOD a. DIAPHRAGMS & SHEAR WALLS b. PROPRIETARY HOLDOWN SYSTEM F. DEMOLITION WORK																																
		SHOP DRAWING NOTES 1. SUBMIT THE FOLLOWING ITEMS TO ARCHITECT FOR REVIEW. PROVIDE 15 BUSINESS DAYS FOR INITIAL REVIEW. ✓ STRUCTURAL STEEL ✓ CONCRETE DESIGN MIXES. ✓ SLAB AND FOOTING REBAR LAYOUTS. ✓ METAL DECK, SHEAR STUD, AND REBAR LAYOUT. ✓ ELEVATED SLAB FORMING, SHORING & JOINT LAYOUT PLANS. ✓ CMU GROUT & MORTAR DESIGN MIXES. ✓ ENGINEERED WOOD PRODUCTS INCLUDING I-JOISTS & GLULAMS. ✓ REBAR, TENDON, & OTHER EMBEDDED COMPONENT LAYOUTS FOR: 1. CONVENTIONAL AND/OR MAT FOUNDATIONS 2. BEARING & SHEAR WALLS 3. COLUMNS 4. ELEVATED SLABS																																

AGENCY APPROVAL

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DATE: 05/26/2026

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LYNWOOD UNIFIED SCHOOL DISTRICT
1120 DUNCAN AVENUE
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No.	Rev.	Date	Description
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JOB NO: 501-26-0008
DATE: 3/23/2026
DRAWN: --
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ARCHITECT:
ENGINEER: OED
DSA NUMBER: 03-125978

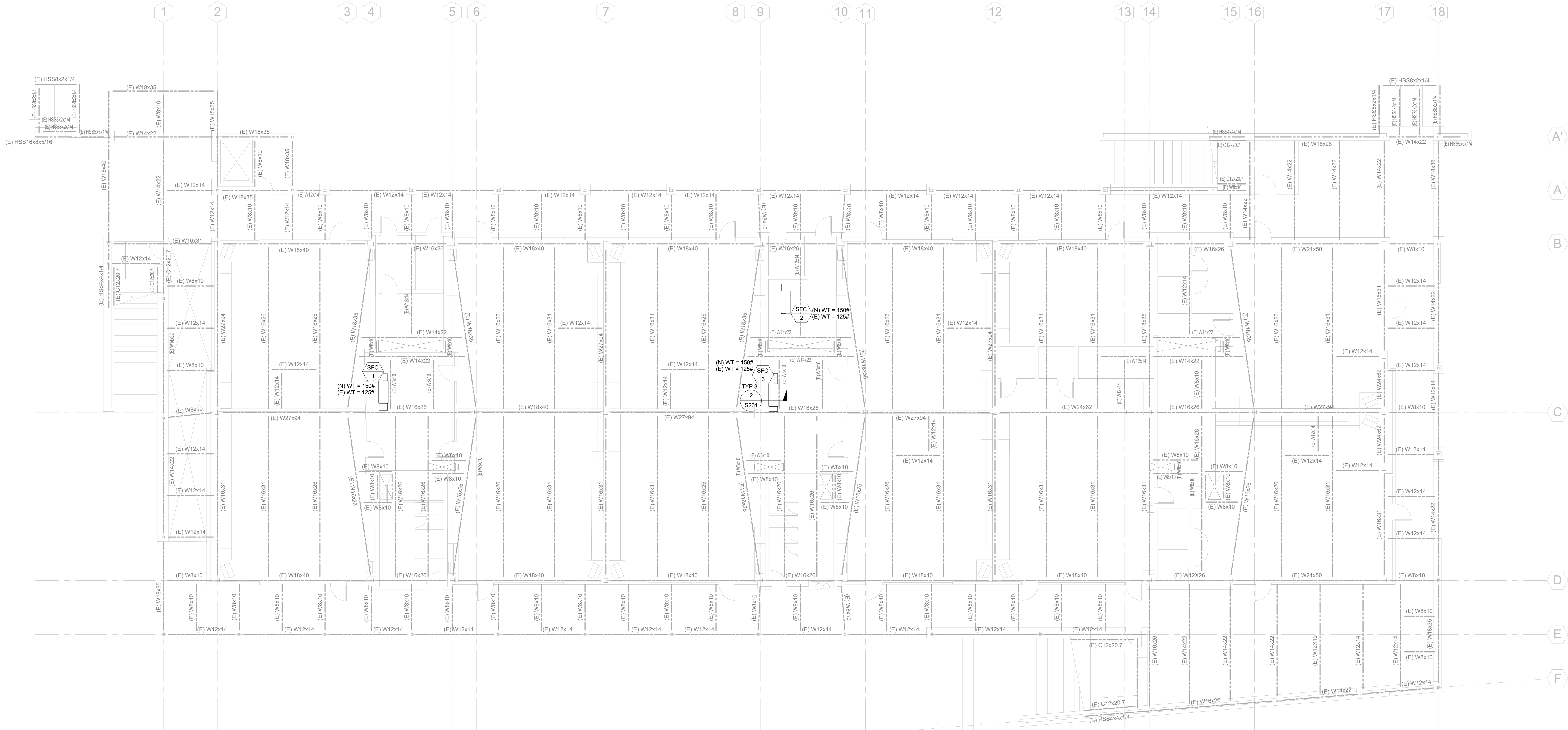
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Tel: (949) 748-7170

STAMP

PROFESSIONAL SEAL
No. 5600
Exp. 6/30/27
STATE OF CALIFORNIA
STRUCTURAL ENGINEER

SHEET DESCRIPTION:
GENERAL NOTES

SHEET NO:
S001



FOUNDATION NOTES:

1. FOR GENERAL NOTES AND ABBREVIATIONS SEE SHEETS S001 & S002.
2. FOR MECHANICAL UNIT ANCHORAGE DETAILS, SEE SHEET S201
3. VERIFY ALL DIMENSIONS, ELEVATIONS, FINISH SURFACES, FINISH FLOORS, SLOPES, DRAINS, DEPRESSIONS, CURBS, EDGE OF SLABS, HOUSEKEEPING PADS, EQUIPMENT LOCATIONS, LANDSCAPE ELEMENTS, ETC WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF CONSTRUCTION.

NOTE:

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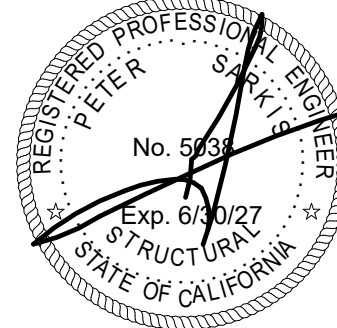
WILL ROGERS ELEMENTARY SCHOOL
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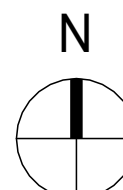
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SHEET DESCRIPTION:
1st FLOOR CEILING
STRUCTURAL
FRAMING PLAN

SHEET NO:

S101



1st FLOOR CEILING FRAMING PLAN

1/8" = 1'-0"

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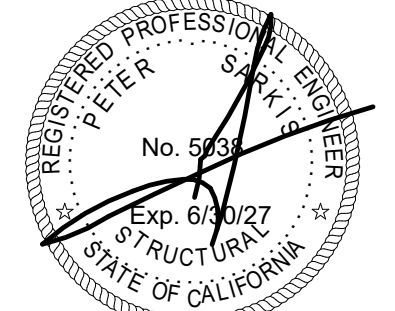
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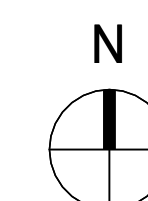
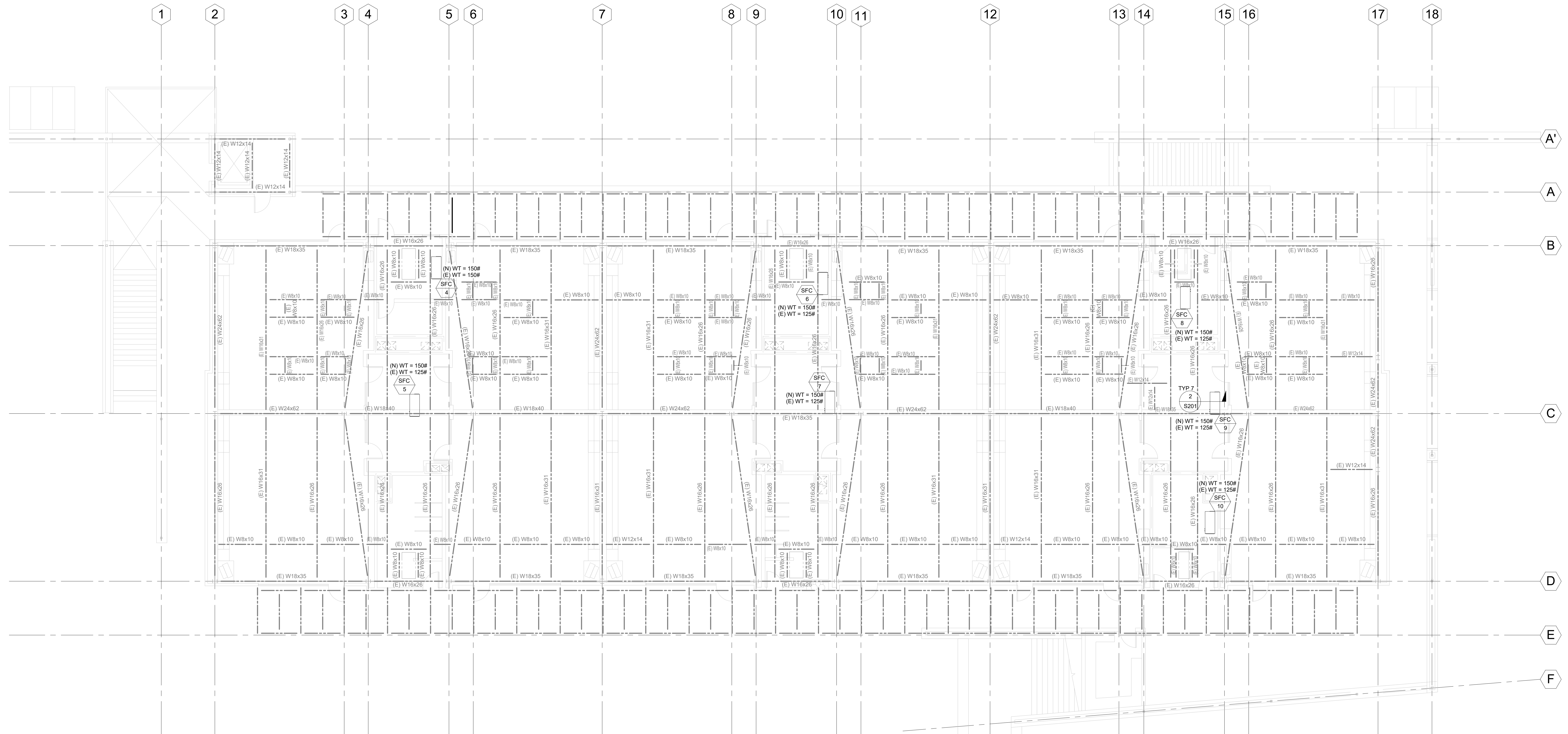
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2nd FLOOR
STRUCTURAL
CEILING FRAMING
PLAN

SHEET NO: _____

S102

1. FOR GENERAL NOTES AND ABBREVIATIONS SEE SHEETS **S001 & S002.**
2. FOR MECHANICAL UNIT ANCHORAGE DETAILS, SEE SHEET **S201**
3. VERIFY ALL DIMENSIONS, ELEVATIONS, FINISH SURFACES, FINISH FLOORS, SLOPES, DRAINS, DEPRESSIONS, CURBS, EDGE OF SLABS, HOUSEKEEPING PADS, EQUIPMENT LOCATIONS, LANDSCAPE ELEMENTS, ETC WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF CONSTRUCTION.

NOTE:
(E) CONDITIONS ARE SHOWN TO THE BEST OF OUR KNOWLEDGE AND BASED ON DRAWINGS NOT PREPARED BY PETRA STRUCTURAL ENGINEERS. THE CONTRACTOR SHOULD VERIFY ALL (E) FIELD CONDITIONS BEFORE COMMENCING WORK. THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER IF CONDITIONS ARE DIFFERENT THAN SHOWN.



2ND FLOOR CEILING FRAMING PLAN

1/8" = 1'-0"

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FRAMING NOTES:

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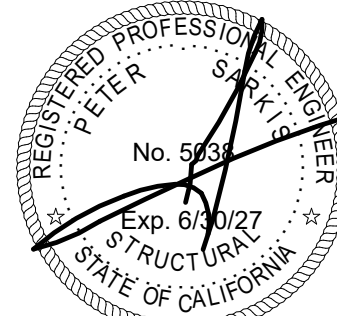
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Irvine, CA 92614
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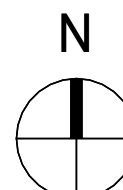
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SHEET DESCRIPTION:
**ROOF FRAMING
PLAN**

SHEET NO:

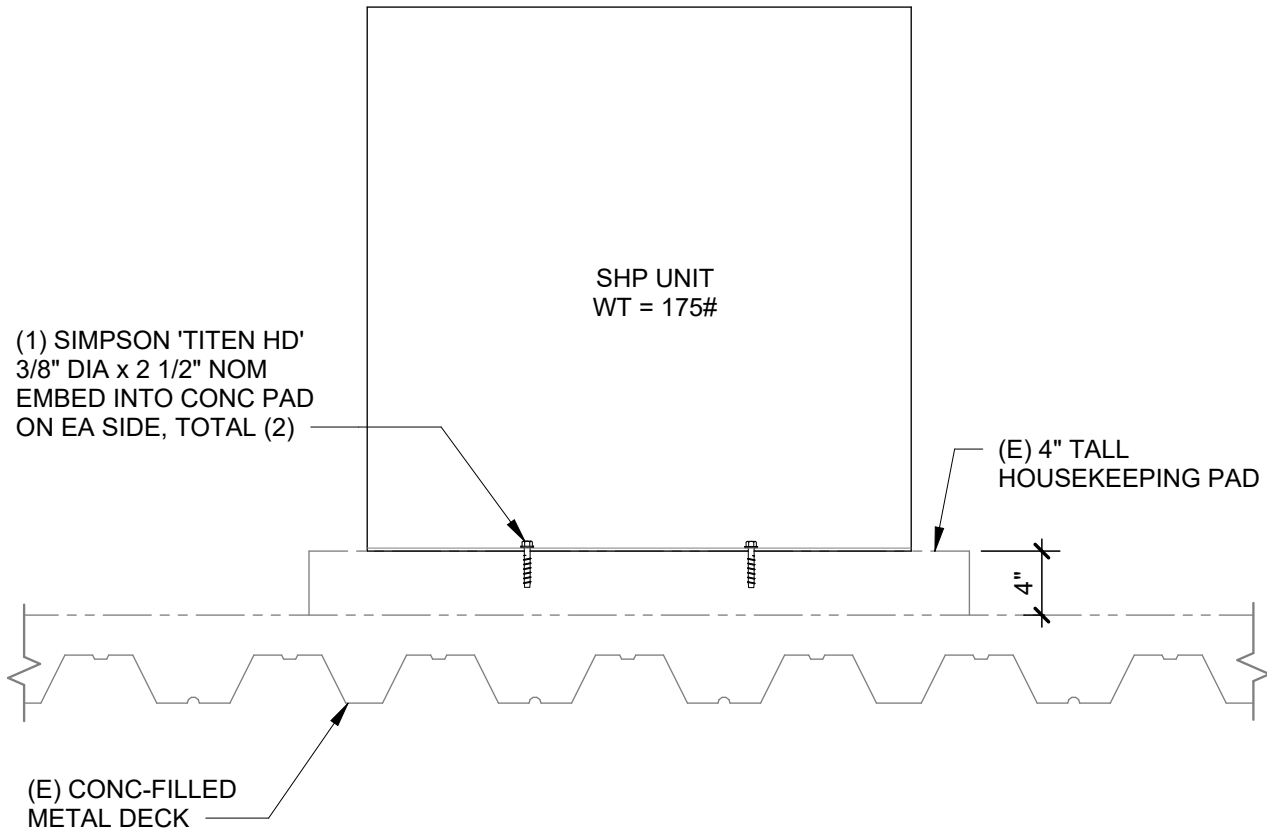
S103



ROOF FRAMING PLAN

1/8" = 1'-0"

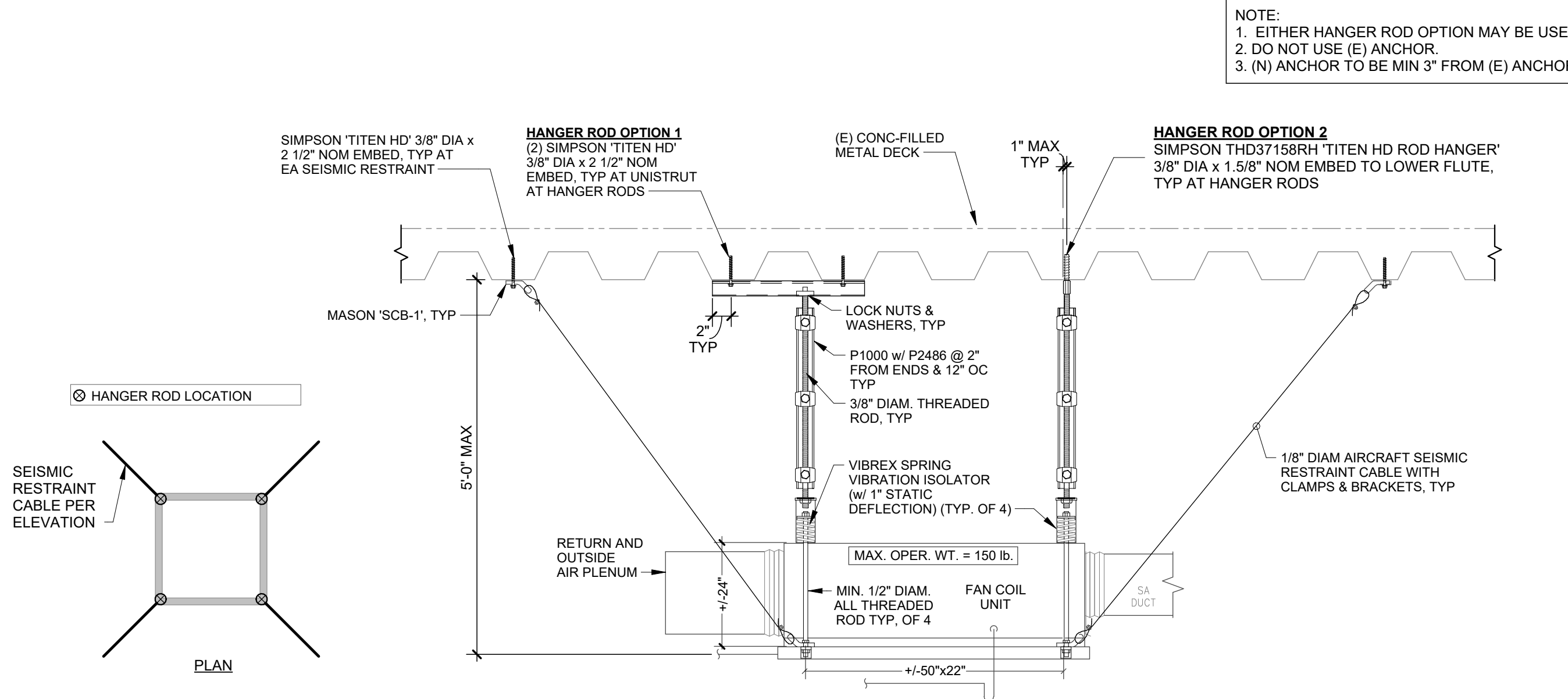
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SHP ANCHORAGE

SCALE: NTS

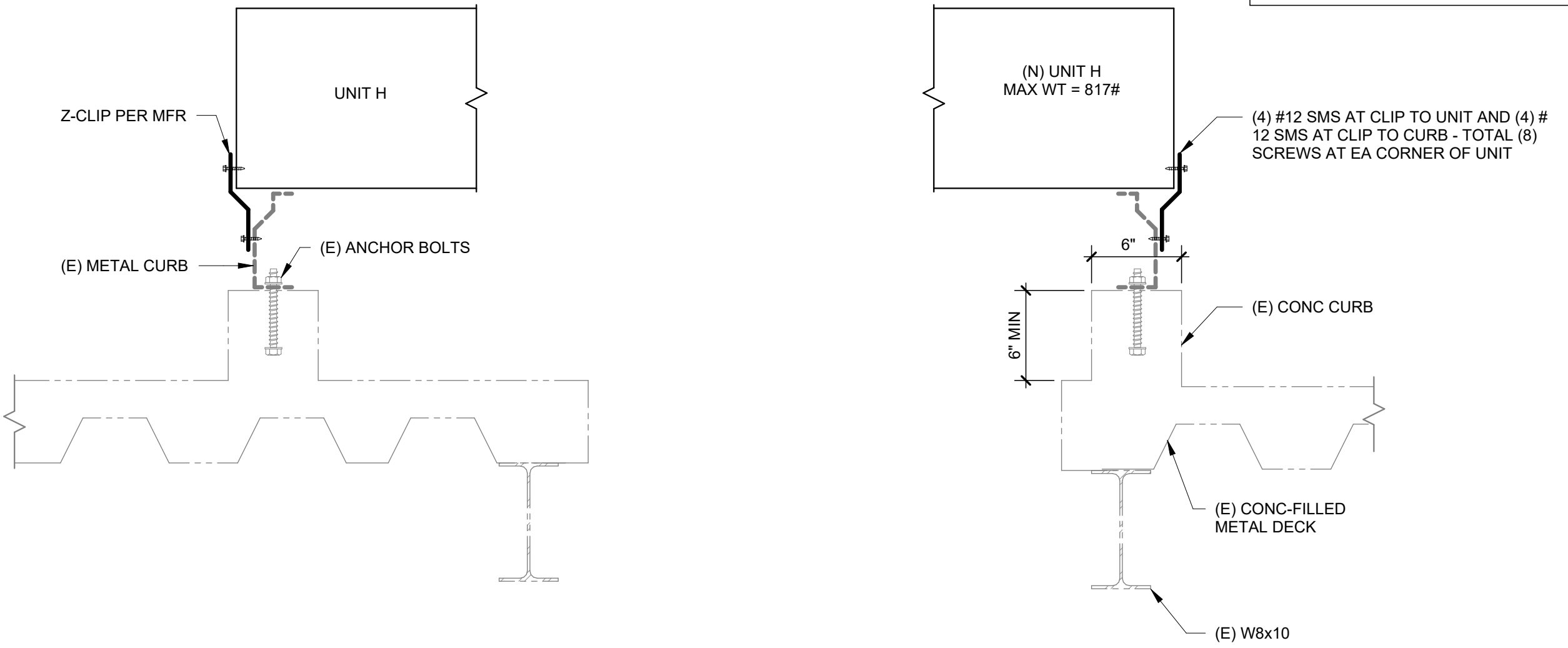
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FAN COIL UNIT INSTALLATION DETAIL

SCALE: NTS

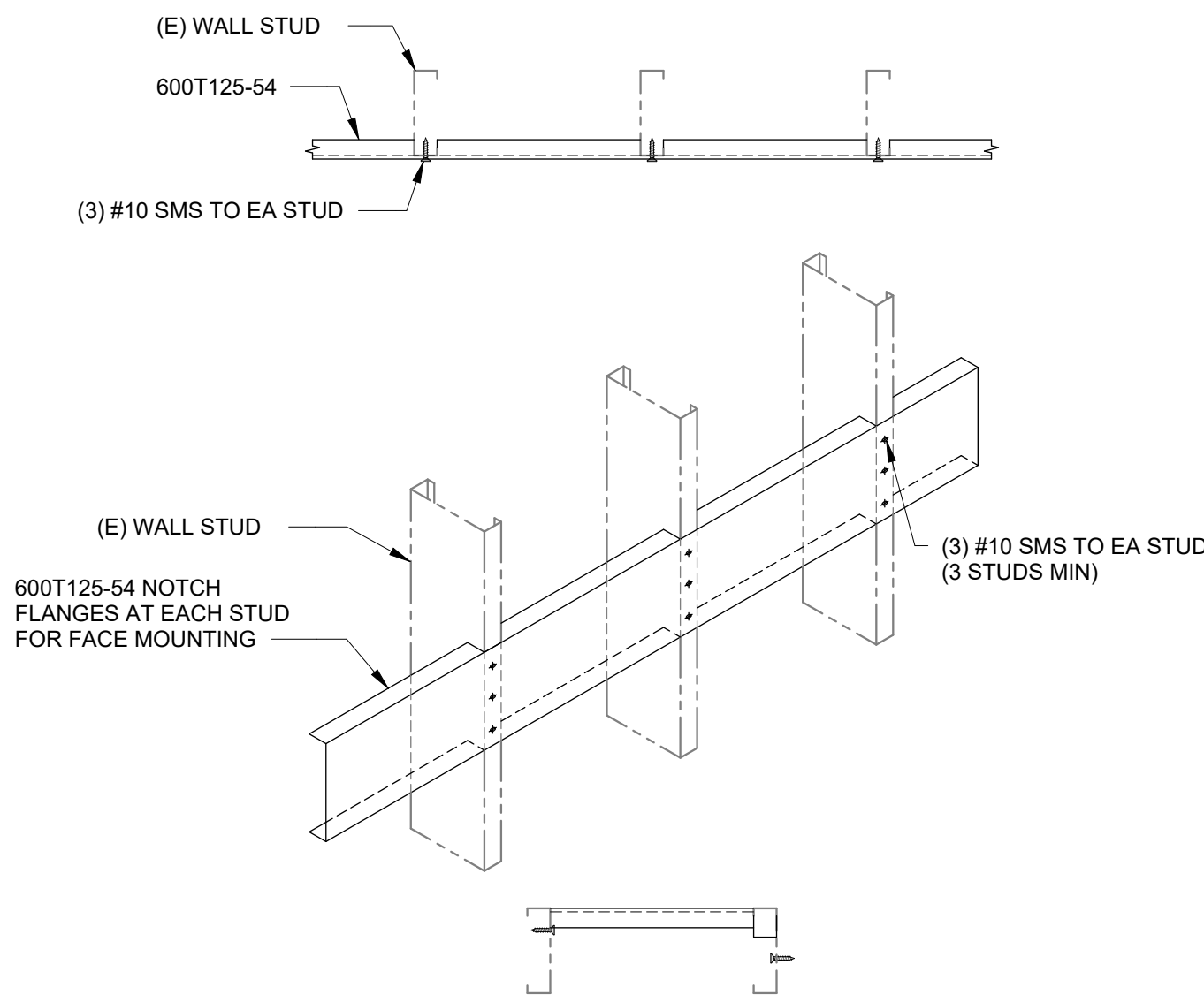
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HEAT PUMP UNIT ANCHORAGE

SCALE: NTS

3



TYPICAL BACKING DETAILS

SCALE: NTS

4

AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125978 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☐
DATE: 05/26/2026

oed optimum energy design
Consulting Engineers
5200 E. La Palma Ave
Anaheim, CA 92807
Telephone (714) 693-2277

STAMP

PROJECT NAME:

**WILL ROGERS ELEMENTARY SCHOOL
LYNWOOD UNIFIED SCHOOL DISTRICT**
11220 DUNCAN AVENUE
LYNWOOD, CALIFORNIA, 90262

No.	Rev.	Date	Description
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△			
△			

JOB NO: 501-26-0008

DATE: 3/23/2026

DRAWN: --

CHECK: --

ARCHITECT:

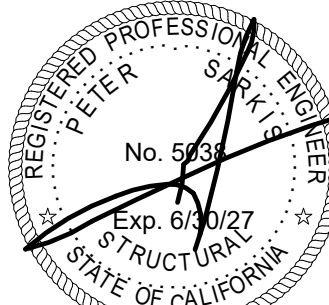
ENGINEER: OED

DSA NUMBER: 03-125978

CONSULTANT

OP PETRA
STRUCTURAL ENGINEERS
17981 Sky Park Circle
Suite O
Irvine, CA 92614
Tel: (949) 748-7170

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SHEET DESCRIPTION:
DETAILS

SHEET NO:

S201

GENERAL NOTES									
----- GENERAL NOTES ----- 1. ENTIRE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE 2025 CALIFORNIA MECHANICAL CODE, 2025 CALIFORNIA BUILDING CODE, AND ALL OTHER APPLICABLE CODES AND REGULATIONS, INCLUDING 2025 BUILDING ENERGY EFFICIENCY STANDARDS DIVISION 7-24. 2. 2025 CALIFORNIA GREEN BUILDING STANDARDS (CAL GREEN) CODE INCLUDING THE APPLICABLE MANDATORY MEASURES: - COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION PER CAL GREEN REQUIREMENTS. - ADHESIVES, SEALANTS AND CAULKS SHALL MEET CAL GREEN REQUIREMENTS. - FILTERS SHALL BE A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 13 OR AS SPECIFIED. - INSTALLATIONS OF HVAC AND REFRIGERATION EQUIPMENT SHALL COMPLY WITH SECTIONS 5.508.1.1 AND 5.508.1.2. - AT THE TIME OF ROUGH INSTALLATION, OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING AND COOLING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUCT OR DEBRIS WHICH MAY COLLECT IN THE SYSTEM. - ADHESIVES, SEALANTS, AND CAULKS USED ON THE PROJECT SHALL MEET THE FOLLOWING REQUIREMENTS. <table><thead><tr><th>SPECIALITY APPLICATIONS.</th><th>CURRENT VOC LIMIT</th></tr></thead><tbody><tr><td>PVC WELDING</td><td>510</td></tr><tr><td>CPVC WELDINGS</td><td>485</td></tr><tr><td>ABS WELDING</td><td>325</td></tr></tbody></table> - ALL VOC'S MUST COMPLY WITH THE LIMITATIONS LISTED IN SECTION 5.504.4 AND TABLES 4.504.1.1, 5.504.4.2, 5.504.4.3, AND 5.504.4.5 FOR ADHESIVES, SEALANTS, PAINTS AND COATINGS, CARPET AND COMPOSITION WOOD PRODUCTS. CAL GREEN CODE 5.504.4. - IF THE HVAC SYSTEM IS USED DURING CONSTRUCTION, USE RETURN AIR FILTERS WITH MINIMUM MERV OF 8. REPLACE ALL FILTERS IMMEDIATELY PRIOR TO OCCUPANCY. - INSTALLER AND SPECIAL INSPECTORS SHALL MEET ALL QUALIFICATIONS LISTED IN SECTION 702 OF THE 2025 CALIFORNIA GREEN BUILDING STANDARDS CODE. - BUILDINGS SHALL MEET OR EXCEED THE PROVISIONS OF 2025 CALIFORNIA BUILDING CODE, CCR, TITLE 24, PART 2, SECTIONS 1202 (VENTILATION). - A BUILDING SYSTEMS MANUAL AS LISTED IN THE CALIFORNIA GREEN CODE SECTION 5.410.2.5.1 SHALL BE DELIVERED TO THE BUILDING OWNER AND THE FACILITIES OPERATOR. THE SYSTEMS MANUAL SHALL CONTAIN THE REQUIRED FEATURES LISTED IN THE CALIFORNIA GREEN CODE SECTION 5.410.2.5.1. - INSTALLATION OF HVAC, REFRIGERATION, AND FIRE SUPPRESSION SYSTEMS SHALL NOT CONTAIN CFC'S OR HALONS PER CALIFORNIA GREEN CODE 5.508.1. - DURING CONSTRUCTION, ENDS OF DUCT OPENINGS ARE TO BE SEALED, AND MECHANICAL EQUIPMENT IS TO BE COVERED, CGC 5.504.3. - PRIOR TO FINAL APPROVAL OF THE BUILDING THE LICENSED CONTRACTOR, ARCHITECT OR ENGINEER IN RESPONSIBLE CHARGE OF THE OVERALL CONSTRUCTION MUST COMPLETE AND SIGN THE GREEN BUILDING STANDARDS CERTIFICATION FORM AND GIVEN TO THE BUILDING DEPARTMENT OFFICIAL TO BE FILED WITH THE APPROVED PLANS. - CONTRACTOR SHALL COORDINATE WITH DISTICT TO PROVIDE READILY ACCESSIBLE AREAS THAT SERVE THE ENTIRE BUILDING AND ARE IDENTIFIED FOR THE DEPOSITING, STORAGE AND COLLECTION OF NON-HAZARDOUS MATERIALS FOR RECYCLING, INCLUDING (AT A MINIMUM) PAPER, CORRUGATED CARDBOARD, GLASS, PLASTICS, ORGANIC WASTE AND METALS, OR MEET A LAWFULLY ENACTED LOCAL RECYCLING ORDINANCE, IF MORE RESTRICTIVE. A. 5.408.1 CONSTRUCTION WASTE MANAGEMENT - RECYCLE AND/OR SALVAGE FOR REUSE A MINIMUM OF 65 PERCENT OF THE NONHAZARDOUS CONSTRUCTION AND DEMOLITION WASTE IN ACCORDANCE WITH SECTION 5.408.1.1, 5.408.1.2 OR 5.408.1.3; OR MEET A LOCAL CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT ORDINANCE, WHICHEVER IS MORE STRINGENT. B. 5.408.1.1 CONSTRUCTION WASTE MANAGEMENT PLAN - WHERE A LOCAL JURISDICTION DOES NOT HAVE A CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT ORDINANCE THAT IS MORE STRINGENT, SUBMIT A CONSTRUCTION WASTE MANAGEMENT PLAN THAT IDENTIFIES THE CONSTRUCTION AND DEMOLITION WASTE MATERIALS TO BE DIVERTED FROM DISPOSAL BY EFFICIENT USAGE, RECYCLING, REUSE ON THE PROJECT OR SALVAGE FOR FUTURE USE OR SALE. DETERMINES IF CONSTRUCTION AND DEMOLITION WASTE MATERIALS WILL BE SORTED ON-SITE (SOURCE-SEPARATED) OR BULK MIXED (SINGLE STREAM), IDENTIFIES DIVERSION FACILITIES WHERE CONSTRUCTION AND DEMOLITION WASTE MATERIAL COLLECTED WILL BE TAKEN, SPECIFIES THAT THE AMOUNT OF CONSTRUCTION AND DEMOLITION WASTE MATERIALS DIVERTED SHALL BE CALCULATED BY WEIGHT OR VOLUME, BUT NOT BY BOTH. C. 5.408.1.2 WASTE MANAGEMENT COMPANY - UTILIZE A WASTE MANAGEMENT COMPANY THAT CAN PROVIDE VERIFIABLE DOCUMENTATION THAT THE PERCENTAGE OF CONSTRUCTION AND DEMOLITION WASTE MATERIAL WILL BE DIVERTED BY A WASTE MANAGEMENT COMPANY. D. EXCEPTIONS TO SECTIONS 5.408.1.1 AND 5.408.1.2: - EXCAVATED SOIL AND LAND-CLEARING DEBRIS. - ALTERNATE WASTE REDUCTION METHODS DEVELOPED BY WORKING WITH LOCAL AGENCIES IF DIVERSION OR RECYCLE FACILITIES CAPABLE OF COMPLIANCE WITH THIS ITEM DO NOT EXIST. - DEMOLITION WASTE MEETING LOCAL ORDINANCE OR CALCULATED IN CONSIDERATION OF LOCAL RECYCLING FACILITIES AND MARKETS. E. 5.408.1.3 WASTE STREAM REDUCTION ALTERNATIVE - THE COMBINED WEIGHT OF NEW CONSTRUCTION DISPOSAL THAT DOES NOT EXCEED TWO POUNDS PER SQUARE FOOT OF BUILDING AREA MAY BE DEEMED TO MEET THE 65 PERCENT MINIMUM REQUIREMENT AS APPROVED BY THE ENFORCING AGENCY. 3. 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 FOR COORDINATE ITEMS TO BE PROVIDED BY OTHER TRADES WHERE MENTIONED IN THE CONTRACT DOCUMENTS PRIOR TO BID - NO EXCEPTIONS. 4. 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. 5. CONTRACTOR SHALL NOTIFY OWNER AND ENGINEER OF CONSTRUCTION PHASING PRIOR TO START OF CONSTRUCTION, REMOVAL, AND/OR REPLACEMENT OF ANY EQUIPMENT. CONTRACTOR SHALL RECEIVE PERMISSION IN WRITING PRIOR TO THE START OF ANY WORK DURING ANY PHASE FOR WORK SHOWN HEREIN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT WORK AND ARRANGE HIS WORK IN A MANNER THAT WILL CAUSE MINIMAL INTERFERENCE WITH DAILY FUNCTIONS WITHIN THE FACILITY. ANY EXPECTED DOWNTIME SHALL BE COORDINATED WITH THE OWNER. 6. 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. 7. THE OWNER ACKNOWLEDGES THAT THE DESIGN PROFESSIONAL'S PLANS ARE INSTRUMENTS OF PROFESSIONAL SERVICE. NEVERTHELESS, THE PLANS PREPARED UNDER THIS AGREEMENT SHALL BECOME THE PROPERTY OF THE OWNER UPON COMPLETION OF THE WORK. THE OWNER AGREES TO HOLD HARMLESS AND INDEMNIFY THE DESIGN PROFESSIONAL AGAINST ALL DAMAGES, CLAIMS AND LOSSES, INCLUDING DEFENSE COSTS, ARISING OUT OF ANY RESCUE OF THE PLANS WITHOUT THE WRITTEN AUTHORIZATION OF THE DESIGN PROFESSIONAL. 8. ALL DIMENSIONS SHOWN ON THESE PLANS ARE APPROXIMATE AND MUST BE CONFIRMED ON SITE. 9. PRIOR TO OCCUPANCY, THE ENTIRE H.V.A.C. SYSTEMS SHALL BE BALANCED IN ACCORDANCE WITH (AABC) ASSOCIATED AIR BALANCE COUNCIL STANDARDS BY AN INDEPENDENT AIR BALANCE CONTRACTOR. CERTIFICATION SHALL BE PROVIDED BY THE CONTRACTOR FOR AIR 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. 10. FOR INACCESSIBLE AREAS THE CONTRACTOR SHALL PROVIDE ACCESS PANELS FOR ALL DAMPERS, EQUIPMENT, SMOKE DETECTORS, AND CONTROL DEVICES. THESE PANELS SHALL MATCH THE RATINGS 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. 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 OWNERS USE. 13. PROVIDE MERV 13 EFFICIENCY THROWAWAY 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 MARSHAL 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. 17. ALL HVAC EQUIPMENT SHALL BE CERTIFIED BY THE CALIFORNIA ENERGY COMMISSION TO COMPLY WITH LATEST EFFICIENCY STANDARDS. 18. PROVIDE MANUAL VOLUME DAMPERS AND BACKDRAFT DAMPERS FOR FRESH AIR INTAKES ON ALL AIR HANDLING EQUIPMENT AND SUPPLY AIR FANS SERVING CONDITIONED SPACES. 19. ALL AIR HANDLING EQUIPMENT SERVING CONDITIONED SPACES SHALL PROVIDE CONTINUOUS FRESH AIR TO SPACES IN OCCUPIED MODE. 20. CONTRACTOR SHALL VERIFY ALL CLEARANCES AND INSTALL HVAC UNITS PER MANUFACTURER GUIDELINES. 21. CONTRACTOR TO SUBMIT ALL EQUIPMENT AND OTHER ACCESSORIES TO THE ENGINEER FOR APPROVAL PRIOR TO ANY ORDERING OF SUCH ITEMS. 22. CONTRACTOR SHALL BE RESPONSIBLE FOR COMMISSIONING OF EQUIPMENT. 23. PAINT EXPOSED SURFACES, WHETHER OR NOT COLORS ARE DESIGNATED IN SCHEDULES, EXCEPT WHERE A SURFACE OR MATERIAL IS SPECIFICALLY INDICATED NOT TO BE PAINTED OR IS TO REMAIN NATURAL, WHERE AN ITEM OR SURFACE IS NOT SPECIFICALLY MENTIONED, PAINT THE SAME AS SIMILAR ADJACENT MATERIALS OR SURFACES. IF COLOR OR FINISH IS NOT DESIGNATED, THE OWNER'S REPRESENTATIVE WILL SELECT FROM STANDARD COLORS OR FINISHES AVAILABLE. 1) PAINTING INCLUDES FIELD PAINTING EXPOSED BARE AND COVERED PIPES AND DUCTS (INCLUDING COLOR CODING), HANGERS, EXPOSED STEEL AND IRON WORK, AND PRIMED METAL SURFACES OF MECHANICAL AND ELECTRICAL EQUIPMENT. 24. THE HVAC UNITS ARE OWNER-FURNISHED AND CONTRACTOR-INSTALLED (OFCI) AND ARE CURRENTLY STORED AT TWO LOCATIONS: - 2850 EAST DEL AMO BOULEVARD, CARSON, CALIFORNIA 90221 THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ALL HANDLING, LOADING, TRANSPORTATION, DELIVERY, UNLOADING, STAGING, AND INSTALLATION OF THE EQUIPMENT AT THE PROJECT SITE. 25. ALL MECHANICAL PIPING SYSTEMS, DUCTS, CONTROLS, VALVES, APPARATUS, ETC., EXCEPT THOSE THAT ARE INSTALLED IN INACCESSIBLE LOCATIONS IN PARTITIONS, WALLS, AND FLOORS, AND THOSE BURIED UNDERGROUND, SHALL BE PERMANENTLY MARKED AND IDENTIFIED AS INDICATED IN THE RELATED SPECIFICATIONS. 26. UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBER SHALL BE CUT, DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE CITY INSPECTOR. ----- CONTROLS ----- 1. CONTROL SCHEMATICS ARE FOR SEQUENCE ONLY. REFER TO ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ALL ELECTRICAL DEVICES REQUIRED. 2. 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 WITH IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS OF ALL GOVERNING BODIES HAVING JURISDICTION THEREOF. 3. 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. A1) ALL LOW VOLTAGE WIRING SHALL BE INSTALLED IN CONDUIT. A2) ALL LOW VOLTAGE WIRING SHALL BE PLENUM - RATED. 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.		SPECIALITY APPLICATIONS.	CURRENT VOC LIMIT	PVC WELDING	510	CPVC WELDINGS	485	ABS WELDING	325
SPECIALITY APPLICATIONS.	CURRENT VOC LIMIT								
PVC WELDING	510								
CPVC WELDINGS	485								
ABS WELDING	325								

SEISMIC NOTES	
<u>MEP Component Anchorage Note</u> All mechanical, plumbing, and electrical components shall be anchored and installed per the details on the DSA-approved construction documents. The following components shall be anchored or braced to meet the force and displacement requirements prescribed in the 2025 CBC Sections 1617A.1.18 through 1617A.1.26 and ASCE 7-22 Chapters 13, 26, and 30: 1. All permanent equipment and components. 2. Temporary, movable or mobile equipment that is permanently attached (e.g. hard wired) to the building utility services such as electricity, gas or water. "Permanently attached" shall include all electrical connections except plugs for 110/220 volt receptacles having a flexible cable. 3. Temporary, movable or mobile equipment which is heavier than 400 pounds or has a center of mass located 4 feet or more above the adjacent floor or roof level that directly support the component is required to be restrained in a manner approved by DSA. The following mechanical and electrical components shall be positively attached to the structure but need not demonstrate design compliance with the references noted above. These components shall have flexible connections provided between the component and associated ductwork, piping, and conduit. Flexible connections must allow movement in both transverse and longitudinal directions: A. Components weighing less than 400 pounds and having a center of mass located 4 feet or less above the adjacent floor or roof level that directly support the component. B. Components weighing less than 20 pounds, or in the case of distributed systems, less than 5 pounds per foot, which are suspended from a roof or floor or hung from a wall. The anchorage of all mechanical, electrical and plumbing components shall be subject to the approval of the design professional in general responsible charge or structural engineer delegated responsibility and acceptance by DSA. The project inspector will verify that all components and equipment have been anchored in accordance with the above requirements.	

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
	-	NEW DUCT (SEE PLAN)
	-	EXISTING DUCT (SEE PLAN)
	-	DEMO DUCT (SEE PLAN)
	MVD	MANUAL VOLUME DAMPER
	BDD	BACKDRAFT DAMPER
	SFD	SMOKE / FIRE DAMPER
	FD	FIRE DAMPER
	DL	DOOR LOUVER
	UC	UNDERCUT DOOR 3/4"
	RS	REFRIGERANT SUCTION LINE
	RL	REFRIGERANT LIQUID LINE
	CD	CONDENSATE DRAIN
	S.D.	SMOKE DETECTOR
	P.O.C.	POINT OF CONNECTION
	T	T-STAT
	H	HUMIDISTAT
	TS	TEMPERATURE SENSOR
	OS	OVERRIDE SWITCH
	PD	PRESSURE DIFFERENTIAL SWITCH
	S	SWITCH
	O.C.	ON CENTER
	HWR	HOT-WATER RETURN
	HWS	HOT-WATER SUPPLY
	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
	EMS	ENERGY MANAGEMENT SYSTEM
	OBD	OPPOSED BLADE DAMPER
	FSC	FAN SPEED CONTROL
	E	ITEMS FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR AS SPECIFIED ON THE ELECTRICAL CONTRACT DOCUMENTS
	M	ITEMS FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR AS SPECIFIED ON THE MECHANICAL CONTRACT DOCUMENTS
	EM	ITEMS FURNISHED BY ELECTRICAL CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR.
	ME	MECHANICAL CONTRACTOR
	C.C.	CONTROLS CONTRACTOR
	CBD	COUNTER-BALANCE DAMPER
	D.S.	DOOR SWITCH

SHEET INDEX		
S.NO.	SHEET No.	SHEET TITLE
1	M-0.1	MECHANICAL GENERAL NOTES & LEGENDS
2	M-0.2	MECHANICAL SCHEDULES
3	MD-1.1	MECHANICAL DEMO FIRST FLOOR PLAN - BUILDING H
4	MD-1.2	MECHANICAL DEMO SECOND FLOOR PLAN - BUILDING H
5	MD-1.3	MECHANICAL DEMO ROOF PLAN - BUILDING H
6	M-1.1	MECHANICAL FIRST FLOOR PLAN - BUILDING H
7	M-1.2	MECHANICAL SECOND FLOOR PLAN - BUILDING H
8	M-1.3	MECHANICAL ROOF PLAN - BUILDING H
9	M-4.1	MECHANICAL DETAILS
10	M-4.2	MECHANICAL DETAILS
11	M-6.1	MECHANICAL TITLE 24 COMPLIANCE
12	M-6.2	MECHANICAL TITLE 24 COMPLIANCE

APPLICABLE CODES	
2025 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R. 2025 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R. 2025 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. (2014 NEC) 2025 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R. 2025 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R. 2025 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R. 2025 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R. 2025 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R. 2025 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 C.C.R. TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS, AMERICAN WITH DISABILITY ACT.	
PARTIAL LIST OF APPLICABLE STANDARDS:	
NFPA 13	AUTOMATIC SPRINKLER SYSTEM. 2025 EDITION.
NFPA 24	PRIVATE FIRE MAINS (INCLUDED IN 2025 NFPA 13) 2025 EDITION.
NFPA 72	NATIONAL FIRE ALARM CODE (CALIFORNIA AMENDED) 2022 EDITION. (NOTE: SEE UL STANDARD 1971 FOR "VISUAL DEVICES")
REFERENCE CODE SECTION FOR NFPA STANDARDS - 2025 CBC (SFM) CHPT. 35	

SHOP DRAWINGS NOTES	
CONTRACTOR SHALL SUBMIT A COMPLETE SET OF SHOP DRAWINGS 14 DAYS AFTER OFFICIAL PROJECT START DATE. INCLUDE OF MATERIALS (MECHANICAL, PLUMBING, ELECTRICAL, ETC.) TO SCALE (MIN. 1/4"=1'-0") PRIOR TO FABRICATION AND OR INSTALLATION OF ANY AND OR ALL HVAC COMPONENTS, SYSTEM AND EQUIPMENT. SHOP DRAWINGS SHALL BE SUBMITTED AS A SINGLE ALL INCLUSIVE PACKAGE DIGITALLY (AUTOCAD 2014) AT A MINIMUM 4 HARD COPY SETS ARE TO BE SUBMITTED TO THE ENGINEER FOR REVIEW. INCOMPLETE AND UNCOORDINATED SUBMITTALS SHALL BE REJECTED UPON RECEIPT.	

AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APP: 03-125978 INC:
REVIEWED FOR:
SS ☒ FLS ☒ ACS ☐
DATE: 05/26/2026

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Telephone (714) 693-2277

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PROJECT NAME:

WILL ROGERS ELEMENTARY SCHOOL
LYNWOOD UNIFIED SCHOOL DISTRICT
11220 DUNCAN AVENUE
LYNWOOD, CALIFORNIA, 90262

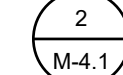
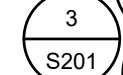
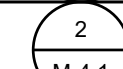
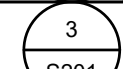
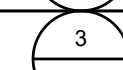
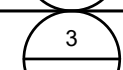
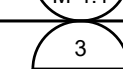
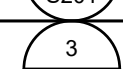
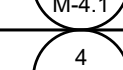
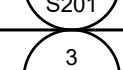
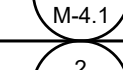
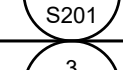
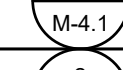
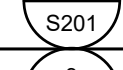
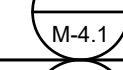
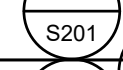
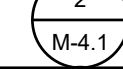
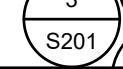
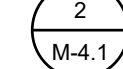
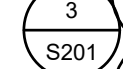
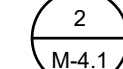
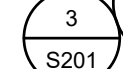
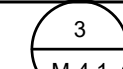
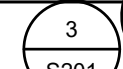
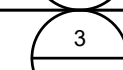
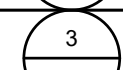
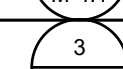
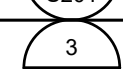
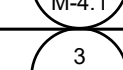
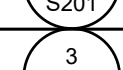
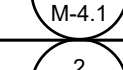
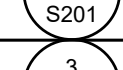
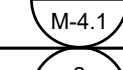
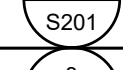
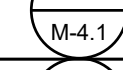
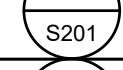
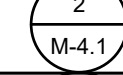
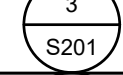
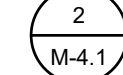
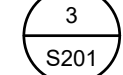
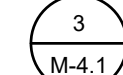
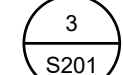
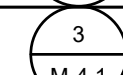
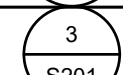
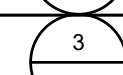
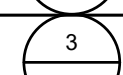
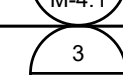
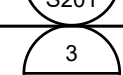
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Δ		
Δ		
Δ		

JOB NO:	501-26-0008
DATE:	3/23/2026
DRAWN:	ZF
CHECK:	HL
ARCHITECT:	
ENGINEER:	OED
DSA NUMBER:	03-125978

CONSULTANT

SHEET DESCRIPTION:
**MECHANICAL
GENERAL NOTES
& LEGENDS**

SHEET NO:
M-0.1

PACKAGED ROOF TOP GAS ELECTRIC UNIT SCHEDULE																														
SYM	MFR & MODEL #	AREA SERVICED	COOLING CAPACITY		HEATING CAPACITY		IEER-SEER/EEER	CFM	OSA CFM	DCV CFM	ESP	FAN BHP	ELECTRICAL FLA					POWER EXHAUST ELECTRICAL					UNIT WT	ECON/PE WT	TOTAL WT	CONTROLS	ANCHORAGE	REMARKS		
			TOTAL	SENSIBLE	INPUT	OUTPUT							V	PH	HZ	MCA	MOCP	V	PH	HZ	FLA	MCA							MOCP	HP
 H 1	48FCGA06A2M6-3A0A0	BLDG H	59.31	44.73	60.00	49.00	14.00/-	2000	400	150	1.00	1.42	460	3	60	13	20	NONE	NONE	NONE	NONE	NONE	NONE	NONE	605	45/-	650	 2 M-4.1	 3 S201	1, 2, 3, 4, 5, 6, 8
 H 2	48FCGA06A2M6-3A0A0	BLDG H	59.31	44.73	60.00	49.00	14.00/-	2000	400	150	1.00	1.42	460	3	60	13	20	NONE	NONE	NONE	NONE	NONE	NONE	NONE	605	45/-	650	 2 M-4.1	 3 S201	1, 2, 3, 4, 5, 6, 8
 H 3	48FCGA06A2M6-3A0A0	BLDG H	59.31	44.73	60.00	49.00	14.00/-	2000	400	150	1.00	1.42	460	3	60	13	20	460/480	3	60	2.8	3.5	6.3	1.0	605	- / 195	800	 3 M-4.1	 3 S201	1, 2, 3, 4, 6, 7, 8, 9
 H 4	48FCGA06A2M6-3A0A0	BLDG H	59.31	44.73	60.00	49.00	14.00/-	2000	460	150	1.00	1.42	460	3	60	13	20	460/480	3	60	2.8	3.5	6.3	1.0	605	- / 195	800	 3 M-4.1	 3 S201	1, 2, 3, 4, 6, 7, 8, 9
 H 5	48FCDM07A2M6-3A0A0	BLDG H	71.15	52.00	67.00	54.00	14.00/-	2400	460	150	1.00	1.32	460	3	60	14	20	460/480	3	60	2.8	3.5	6.3	1.0	630	- / 195	825	 4 M-4.1	 3 S201	1, 2, 3, 4, 6, 7, 8, 9
 H 6	48FCGA04A2M6-3A0A0	BLDG H	35.13	25.39	60.00	49.00	13.40/-	1200	400	150	1.00	0.55	460	3	60	10	15	460/480	3	60	2.8	3.5	6.3	0.5	590	- / 195	785	 2 M-4.1	 3 S201	1, 2, 3, 4, 6, 7, 8
 H 7	48FCGA06A2M6-3A0A0	BLDG H	59.31	44.73	60.00	49.00	14.00/-	2000	400	150	1.00	1.42	460	3	60	13	20	NONE	NONE	NONE	NONE	NONE	NONE	NONE	605	45/-	650	 2 M-4.1	 3 S201	1, 2, 3, 4, 5, 6, 8
 H 8	48FCGA06A2M6-3A0A0	BLDG H	59.31	44.73	60.00	49.00	14.00/-	2000	400	150	1.00	1.42	460	3	60	13	20	NONE	NONE	NONE	NONE	NONE	NONE	NONE	605	45/-	650	 2 M-4.1	 3 S201	1, 2, 3, 4, 5, 6, 8
 H 9	48FCGA06A2M6-3A0A0	BLDG H	59.31	44.73	60.00	49.00	14.00/-	2000	400	150	1.00	1.42	460	3	60	13	20	NONE	NONE	NONE	NONE	NONE	NONE	NONE	605	45/-	650	 2 M-4.1	 3 S201	1, 2, 3, 4, 5, 6, 8
 H 10	48FCGA06A2M6-3A0A0	BLDG H	59.31	44.73	60.00	49.00	14.00/-	2000	400	150	1.00	1.42	460	3	60	13	20	NONE	NONE	NONE	NONE	NONE	NONE	NONE	605	45/-	650	 2 M-4.1	 3 S201	1, 2, 3, 4, 5, 6, 7, 8
 H 11	48FCGA05A2M6-3A0A0	BLDG H	48.41	34.31	60.00	49.00	14.00/-	1600	460	150	1.00	1.02	460	3	60	11	15	460/480	3	60	1.5	1.9	3.4	0.5	595	- / 195	790	 3 M-4.1	 3 S201	1, 2, 3, 4, 6, 7, 8, 9
 H 12	48FCGA05A2M6-3A0A0	BLDG H	48.41	34.31	60.00	49.00	14.00/-	1600	400	150	1.00	1.02	460	3	60	11	15	460/480	3	60	1.5	1.9	3.4	0.5	595	- / 195	790	 3 M-4.1	 3 S201	1, 2, 3, 4, 6, 7, 8, 9
 H 13	48FCGA05A2M6-3A0A0	BLDG H	48.41	34.31	60.00	49.00	14.00/-	1600	460	150	1.00	1.02	460	3	60	11	15	460/480	3	60	1.5	1.9	3.4	0.5	595	- / 195	790	 3 M-4.1	 3 S201	1, 2, 3, 4, 6, 7, 8, 9
 H 14	48FCGA05A2M6-3A0A0	BLDG H	48.41	34.31	60.00	49.00	14.00/-	1600	460	150	1.00	1.02	460	3	60	11	15	460/480	3	60	1.5	1.9	3.4	0.5	595	- / 195	790	 3 M-4.1	 3 S201	1, 2, 3, 4, 6, 7, 8, 9
 H 15	48FCGA06A2M6-3A0A0	BLDG H	59.31	44.73	60.00	49.00	14.00/-	2000	400	150	1.00	1.42	460	3	60	13	20	NONE	NONE	NONE	NONE	NONE	NONE	NONE	605	45/-	650	 2 M-4.1	 3 S201	1, 2, 3, 4, 5, 6, 8
 H 16	48FCGA06A2M6-3A0A0	BLDG H	59.31	44.73	60.00	49.00	14.00/-	2000	460	150	1.00	1.42	460	3	60	13	20	NONE	NONE	NONE	NONE	NONE	NONE	NONE	605	45/-	650	 2 M-4.1	 3 S201	1, 2, 3, 4, 5, 6, 8
 H 17	48FCGA06A2M6-3A0A0	BLDG H	59.31	44.73	60.00	49.00	14.00/-	2000	400	150	1.00	1.42	460	3	60	13	20	NONE	NONE	NONE	NONE	NONE	NONE	NONE	605	45/-	650	 2 M-4.1	 3 S201	1, 2, 3, 4, 5, 6, 8
 H 18	48FCGA06A2M6-3A0A0	BLDG H	59.31	44.73	60.00	49.00	14.00/-	2000	400	150	1.00	1.42	460	3	60	13	20	NONE	NONE	NONE	NONE	NONE	NONE	NONE	605	45/-	650	 2 M-4.1	 3 S201	1, 2, 3, 4, 5, 6, 8
 H 19	48FCGA05A2M6-3A0A0	BLDG H	48.41	34.31	60.00	49.00	14.00/-	1600	400	150	1.00	1.02	460	3	60	11	15	460/480	3	60	1.5	1.9	3.4	0.5	595	- / 195	790	 3 M-4.1	 3 S201	1, 2, 3, 4, 6, 7, 8, 9
 H 20	48FCGA05A2M6-3A0A0	BLDG H	48.41	34.31	60.00	49.00	14.00/-	1600	400	150	1.00	1.02	460	3	60	11	15	460/480	3	60	1.5	1.9	3.4	0.5	595	- / 195	790	 3 M-4.1	 3 S201	1, 2, 3, 4, 6, 7, 8, 9
 H 21	48FCGA05A2M6-3A0A0	BLDG H	48.41	34.31	60.00	49.00	14.00/-	1600	460	150	1.00	1.02	460	3	60	11	15	460/480	3	60	1.5	1.9	3.4	0.5	595	- / 195	790	 3 M-4.1	 3 S201	1, 2, 3, 4, 6, 7, 8, 9
 H 22	48FCGA05A2M6-3A0A0	BLDG H	48.41	34.31	60.00	49.00	14.00/-	1600	460	150	1.00	1.02	460	3	60	11	15	460/480	3	60	1.5	1.9	3.4	0.5	595	- / 195	790	 3 M-4.1	 3 S201	1, 2, 3, 4, 6, 7, 8, 9
 H 23	48FCGA06A2M6-3A0A0	BLDG H	59.31	44.73	60.00	49.00	14.00/-	2000	400	150	1.00	1.42	460	3	60	13	20	NONE	NONE	NONE	NONE	NONE	NONE	NONE	605	45/-	650	 2 M-4.1	 3 S201	1, 2, 3, 4, 5, 6, 8
 H 24	48FCGA06A2M6-3A0A0	BLDG H	59.31	44.73	60.00	49.00	14.00/-	2000	400	150	1.00	1.42	460	3	60	13	20	NONE	NONE	NONE	NONE	NONE	NONE	NONE	605	45/-	650	 2 M-4.1	 3 S201	1, 2, 3, 4, 5, 6, 8

REMARKS:

1. PRE-PURCHASED AND FACTORY INSTALLED MOUNTED HAIL GUARD.
2. PROVIDE MERV-13 FILTER FOR ROOF TOP HEAT PUMP UNIT.
3. PROVIDE PERMANENT LABEL FOR EACH HEAT PUMP UNIT BY CONTRACTOR. LABEL IDENTIFICATION SHALL BE PER DISTRICT DIRECTION.
4. PRE-PURCHASED ELECTROMECHANICAL CONTROLS WITH NEW CARRIER SYSTEMVU CONTROLLER. NEW T24 COMPLIANT VENTSTAR T8850 THERMOSTAT AND SERVA TOTAL SENSE SERIES AQ2W-ACAAAD CO2 SENSOR PROVIDE WITH OLED DISPLAY AND SOLID COVER.
5. INSTALL PRE-PURCHASED 100% DRY BULB ECONOMIZER. ULTRA LOW LEAK ECONOMIZER ORIENTATION TO MATCH EXISTING. ADJUSTABLE DRY BULB SENSOR BELIMO. PAINTED RAIN HOOD WITH ALUMINUM FILTER 100% BAROMETRIC RELIEF.
6. REUSE EXISTING SEISMIC CLIPS FOR CONNECTION TO EXISTING CURB. FOR MISSING OR DAMAGED SEISMIC CLIPS, PROVIDE NEW PER DETAIL 5M-4.1.
7. INSTALL PRE-PURCHASED MODULATING POWER EXHAUST MODULE. PROVIDE SEPARATE POWER FROM A/C UNIT.
8. REUSE EXISTING SMOKE DETECTION MODULE TO SHUT DOWN UNIT.
9. INSTALL FLUE DISCHARGE DEFLECTOR KIT PER MANUFACTURER GUIDELINES AND TERMINATE 3'-0" ABOVE UNIT OSA-INTAKE PER 2025 CMC 802.6.1

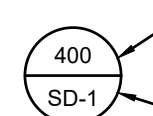
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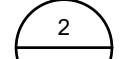
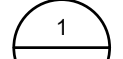
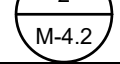
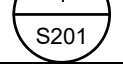
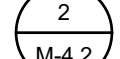
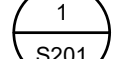
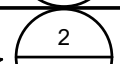
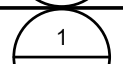
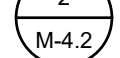
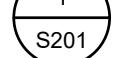
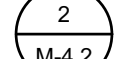
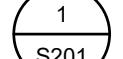
1. UNITS ARE PRE-PURCHASED BY DISTRICT. OBTAIN SUBMITTALS FROM DISTRICT/OWNER. REFER TO GENERAL NOTE 24 ON M-0.1 AND SHEET T-1 FOR MORE INFORMATION.
2. SEE ABOVE - "PACKAGED ROOFTOP GAS ELECTRIC UNIT SCHEDULE" FOR EQUIPMENT TAG NUMBER, ELECTRICAL INFORMATION AND ACCESSORIES.
3. INSTALL NEW ROOF TOP GAS ELECTRIC UNIT PER MANUFACTURER GUIDELINES.
4. AREAS WITH UNIT SUPPLYING MORE THAN 2,000 CFM SHALL BE EQUIPPED WITH AUTOMATIC SYSTEM SHUT DOWN PER SECTION 608 OF THE 2025 CMC.
5. EXISTING ROOF CURB TO REMAIN. FOR DAMAGED ROOF CURB REPLACEMENT, CONTRACTOR TO PROVIDE UNIT COST FOR CURB REPLACEMENT AND ASSOCIATED ROOFING.

AIR DISTRIBUTION SCHEDULE

SYM.	MFR. & MODEL #	NECK SIZE	CFM RANGE	MAX. NECK VELOCITY	MAX. N.C.	S.P. DROP	TYPE	DAMPER	REMARKS
 SD-1	KRUEGER 1240	8"x8"	0-60	400	30	.06	MODULAR	NONE	FRAME 23 FOR T-BAR

LEGEND

-  CFM
-  AIR DISTRIBUTION DEVICE
- SD SUPPLY DIFFUSER
- RG RETURN GRILLE
- TG TRANSFER GRILLE
- EG EXHAUST GRILLE

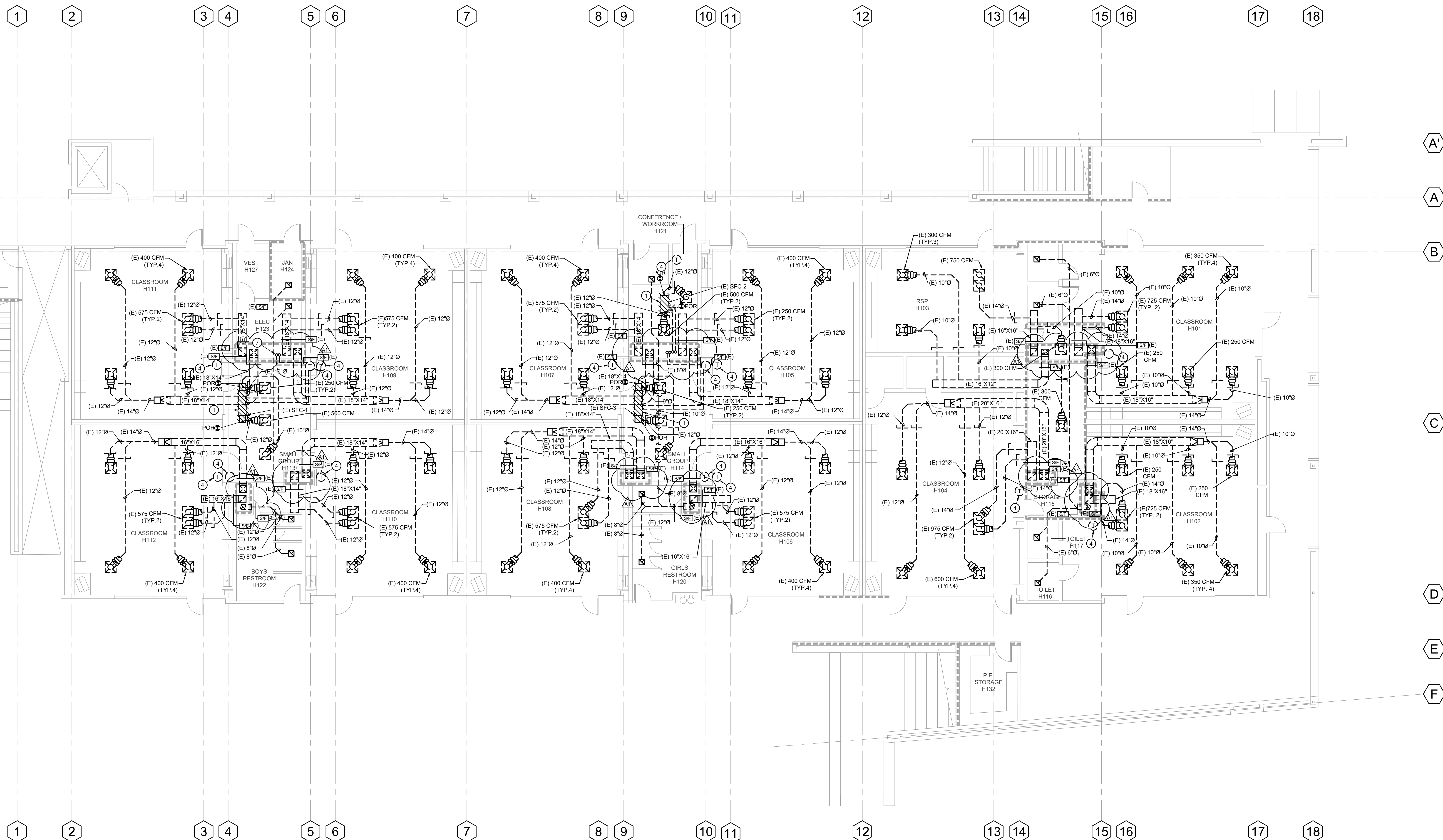
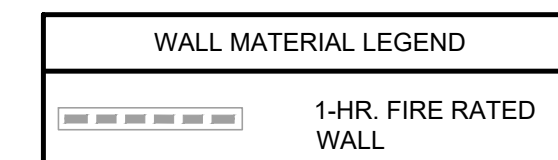
SPLIT SYSTEM OUTDOOR UNIT HEAT PUMP SCHEDULE																
SYM	MFR & MODEL #	TONS	AREA SERVICED	COOLING CAPACITY	HEATING CAPACITY	HSPF2	SEER	ELECTRICAL				APPROX. DIMENSIONS W X H X D	WEIGHT (LBS)	CONTROL DETAIL	ANCHORAGE DETAIL	REMARKS
								V	PH	MCA	MOCP					
 HP 1	CARRIER 25SCA524A003	2	BLDG H	23,800	24,200	7.5	15.96	208/230	1	14.5	25	31.19x31.19x32.06	175	 2 M-4.2	 1 S201	1, 2
 HP 2	CARRIER 25SCA524A003	2	BLDG H	23,800	24,200	7.5	15.96	208/230	1	14.5	25	31.19x31.19x32.06	175	 2 M-4.2	 1 S201	1, 2
 HP 3	CARRIER 25SCA524A003	2	BLDG H	23,800	24,200	7.5	15.96	208/230	1	14.5	25	31.19x31.19x32.06	175	 2 M-4.2	 1 S201	1, 2
 HP 4	CARRIER 25SCA524A003	2	BLDG H	23,800	24,200	7.5	15.96	208/230	1	14.5	25	31.19x31.19x32.06	175	 2 M-4.2	 1 S201	1, 2
 HP 5	CARRIER 25SCA524A003	2	BLDG H	23,800	24,200	7.5	15.96	208/230	1	14.5	25	31.19x31.19x32.06	175	 2 M-4.2	 1 S201	1, 2
 HP 6	CARRIER 25SCA524A003	2	BLDG H	23,800	24,200	7.5	15.96	208/230	1	14.5	25	31.19x31.19x32.06	175	 2 M-4.2	 1 S201	1, 2
 HP 7	CARRIER 25SCA524A003	2	BLDG H	23,800	24,200	7.5	15.96	208/230	1	14.5	25	31.19x31.19x32.06	175	 2 M-4.2	 1 S201	1, 2
 HP 8	CARRIER 25SCA524A003	2	BLDG H	23,800	24,200	7.5	15.96	208/230	1	14.5	25	31.19x31.19x32.06	175	 2 M-4.2	 1 S201	1, 2
 HP 9	CARRIER 25SCA524A003	2	BLDG H	23,800	24,200	7.5	15.96	208/230	1	14.5	25	31.19x31.19x32.06	175	 2 M-4.2	 1 S201	1, 2
 HP 10	CARRIER 25SCA524A003	2	BLDG H	23,800	24,200	7.5	15.96	208/230	1	14.5	25	31.19x31.19x32.06	175	 2 M-4.2	 1 S201	1, 2

- ① EXISTING FCU TO BE REMOVED AND REPLACED WITH NEW, DEMO AND REMOVE EXISTING REFRIGERANT PIPING, SUPPORTS AND ACCESSORIES. DISCONNECT FROM EXISTING DUCTWORK AND CONDENSATE PIPING AND PREPARE FOR RECONNECTION. REUSE EXISTING OPENINGS FOR NEW REFRIGERANT PIPING.
- ② CONTRACTOR TO DO PRE-READ TAB AIR BALANCE FOR TOTAL SUPPLY, TOTAL RETURN, TOTAL OSA & PROVIDE REPORT TO DISTRICT & ENGINEER.
- ③ EXISTING DUCTWORK AND AIR DEVICES TO REMAIN. VERIFY ALL EXISTING LOCATIONS IN FIELD.
- ④ EXISTING THERMOSTAT AND LOW VOLTAGE WIRING TO BE REMOVED AND REPLACED WITH NEW. FIELD VERIFY ALL EXISTING LOCATIONS.

1. CONTRACTOR SHALL VISIT THE JOB SITE AND VERIFY THE SCOPE OF DEMOLITION WORK. DEMOLITION IS INDICATED AS A CONVENIENCE FOR THE CONTRACTOR AND MAY NOT INDICATE THE FULL SCOPE OF DEMOLITION REQUIRED TO COMPLETE THE NEW WORK.
2. ELECTRICAL CONTRACTOR SHALL DISCONNECT POWER FROM MECHANICAL EQUIPMENT TO BE RE-USED AS REQUIRED. CONTRACTOR SHALL RE-CONNECT POWER TO ALL MECHANICAL EQUIPMENT BEING RE-USE REQUIRED.
3. PRIOR TO ANY WORK BEING DONE CONTRACTOR SHALL MAKE A CAREFUL EVALUATION OF THE EXISTING CONDUIT AND VENT LINES TO DETERMINE REMOVAL AND INSTALLATION OF MECHANICAL EQUIPMENT.
4. CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK WITH THE WORK OF ALL OTHER TRADES.
5. CONTRACTOR ~~SHALL CLEAN ALL AIR DEVICES AS REQUIRED PER SPECIFICATIONS SECTION 23.01.30.51.~~
6. CONTRACTOR SHALL ~~CLEAR ALL EXISTING DUCTWORK INCLUDING LININGS TO WORK TO REMOVAL.~~
7. CONTRACTOR SHALL ~~REMOVE ALL EXISTING DUCT AND BEFORE COMMENCEMENT OF ANY WORK ALL EXISTING DUCTWORK TO REMAIN SHALL BE CONFIRMED ON SITE.~~
8. ANY VENTS, CONDUIT, & GAS LINES LOCATED ON THE ROOF THAT ARE NOT SHOWN ON THIS SHEET AND/OR NOT POSITIVELY IDENTIFIED BY THE CONTRACTOR SHALL REMAIN AND BE PROTECTED IN PLACE. CONTRACTOR TO VERIFY EXISTING ROOF CONDITIONS, AND TAKE MEASURES TO DEMOLISH ONLY THE ITEMS IDENTIFIED.
9. CONTRACTOR SHALL INCLUDE IN THE SCOPE OF WORK ALL WORK REQUIRED TO PATCH, FINISH, MATCH, AND REPAIR ALL SURFACES THAT EXISTING AS IMPACTED BY THE AREAS OF NEW WORK.
10. NO DEMOLITION SHALL BEGUN UNTIL PLANS INCLUDING THE DEMOLITION WORK HAVE BEEN APPROVED BY DSA

10. REFERENCE TO DSA IR-25-2 SECTION 3.
SUSPENDED LAY-IN PLATE CEILING, 2022 CBC
3. CEILING SYSTEM ALTERATION
- 3.1 EXISTING GRID NOT CUT OR ALTERED
- WHEN ANY PORTION OF AN EXISTING GRID SYSTEM IS CUT OR ALTERED AND ANY OF THE CONDITIONS DESCRIBED IN THE SUBSECTION BELOW APPLIES, THE ENTIRE CEILING IS TO BE AFFECTED. THE CEILING SHALL BE EVALUATED AND UPGRADED AS REQUIRED TO MEET THE REQUIREMENTS OF THE CURRENT CBC AND THIS IBC.
- 3.2.1 CONCLUDING THAT THE EXISTING LATERAL BRACING SYSTEMS MAY BE DEEMED EQUIVALENT TO A 4-WAY BRACE WIRE AND COMPRESSION POST LATERAL BRACING ASSEMBLY
- 3.2.1.1 THE EXISTING CEILING DOES NOT HAVE LATERAL BRACING ASSEMBLIES (I.E. 4-WAY BRACE WIRES AND COMPRESSION POST)
- 3.2.1.2 THE EXISTING CEILING HAS LATERAL BRACING ASSEMBLIES (I.E. 4-WAY BRACE WIRES AND COMPRESSION POST)
- WITH THE BRACING GRID MORE THAN 12 FEET ON CENTER IN EITHER PRINCIPAL AXIS.
- 3.1.3 THE AREA CUT OR ALTERED EXCEEDS 10 PERCENT OF THE ENTIRE CEILING AREA. THE "ENTIRE" CEILING IN THE ALTERED SPACE IS THE CEILING BOUNDED BY THE CEILING BOUNDED BY FOUR WALLS OR A COMBINATION OF WALLS AND EXPANSION JOINTS OR SEISMIC ISOLATION JOINTS.
- 3.2 EXISTING GRID NOT CUT OR ALTERED
- EVALUATION AND ASSOCIATED UPGRADE TO THE CEILING GRID, SUSPENSION SYSTEM, AND LATERAL FORCE BRACING ASSEMBLY
- 3.2.1 THE CEILING GRID IS NOT CUT OR ALTERED, AND THE SCOPE OF WORK IS LIMITED TO THE FOLLOWING:
- 3.2.1.1 REPLACEMENT OF LUMINAIRES OR AIR TERMINALS WITH EQUIVALENTS OF EQUAL OR LESSER WEIGHT (PER WEIGHT) PLACED IN THE SAME LOCATIONS.

- 3.2.3 REPLACEMENT OF ONLY THE INTERNAL LIGHTING COMPONENTS EXISTING LUMINAIRES AND THE ATTACHMENT OF THE LUMINAIRE'S OUTER ENCLOSURE TO THE EXISTING GRID IS NOT (E.G., LENS, BALLAST, OR LAMPS WITHIN ALTERED)
- 3.3 REUSE OF EXISTING CEILING WIRES
- EXISTING CEILING HANGER AND BRACING WIRES MAY BE REUSED PROVIDED THE FOLLOWING REQUIREMENTS ARE MET
- 3.3.1 WIRE GAUGE AND SPACING COMPLIES WITH THE CURRENT APPLICABLE CODES AND THIS IR
- 3.3.2 DSA-APPROVED CONSTRUCTION DRAGS
- 3.3.3 DETAIL A DETAIL B DETAIL C WIRE SPLICE BETWEEN A NEW AND EXISTING WIRE. ACCEPTABLE WIRE SPLICE DETAILS ARE PROVIDED IN APPENDIX A DETAIL6.10 BELOW
- 3.3.3.1 WIRES ARE TESTED IN ACCORDANCE WITH SECTION 6.2 BELOW.



N REF. NORTH

$$1/8^{\circ} = 1^{\circ}-0^{\circ}$$

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STAMP



PROJECT NAME:

WILL ROGERS ELEMENTARY SCHOOL
LYNWOOD UNIFIED SCHOOL DISTRICT
11220 DUNCAN AVENUE
LYNWOOD, CALIFORNIA, 90262

No.	Rev. Date	Description
△	4/27/2026	BACKCHECK PH 1
△	6/15/2026	ADDENDUM 1
△		
△		

JOB NO: 501-26-0008

DATE: 6/15/2026

DRAWN: 3E

0.050

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ARCHITECT: **BRUNNEN**

BOA NUMBER: 99-125919

STAMP

SHEET DESCRIPTION:
**MECHANICAL
DEMO FIRST
FLOOR PLAN -
BUILDING H**

SHEET NO.

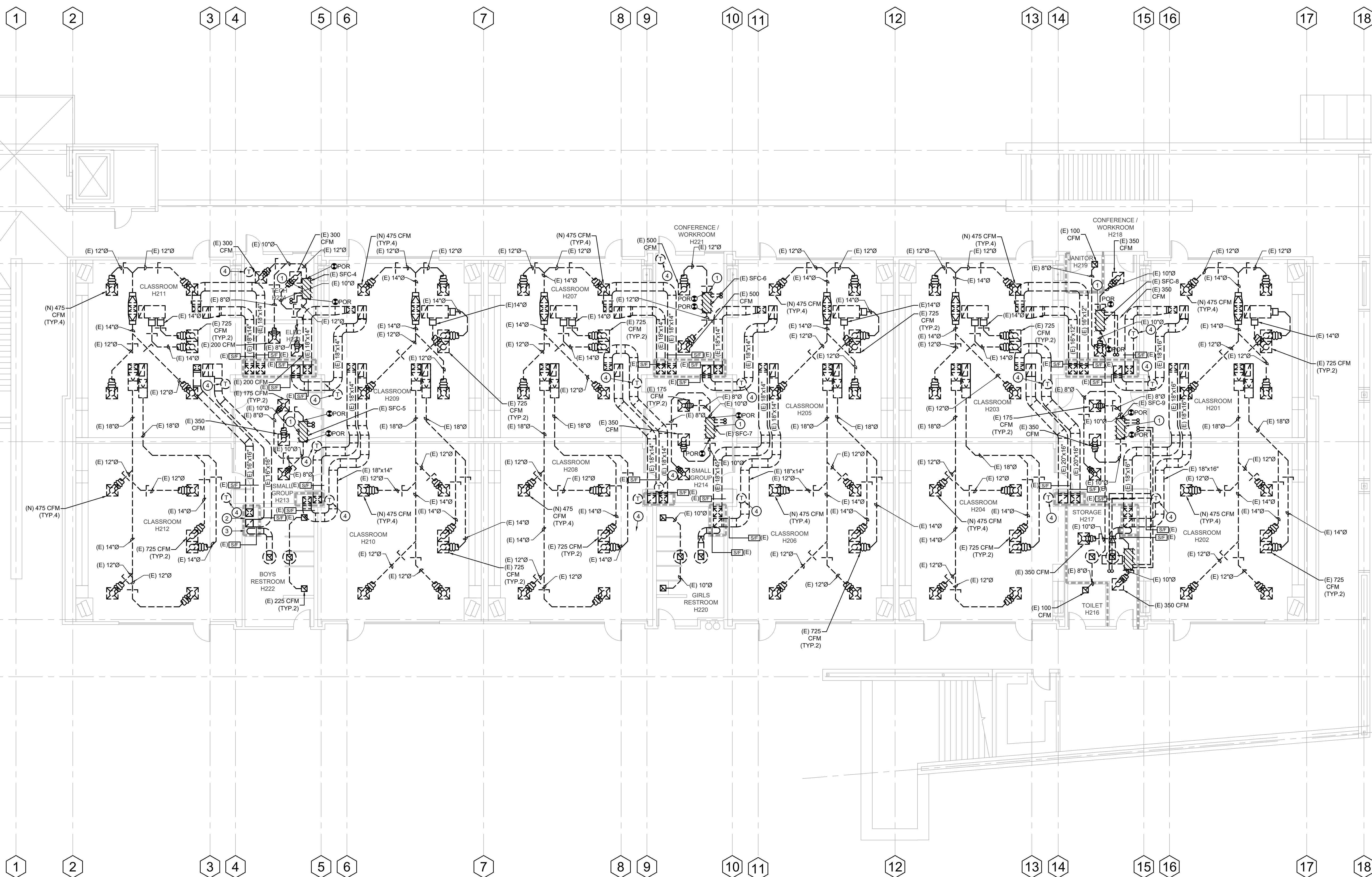
MD-1.1

- ① EXISTING FCU TO BE REMOVED AND REPLACED WITH NEW DEMO AND REMOVE EXISTING REFRIGERANT PIPING, SUPPORTS AND ACCESSORIES, DISCONNECT FROM EXISTING DUCTWORK AND CONDENSATE PIPING AND PREPARE FOR RECONNECTION. REUSE EXISTING OPENINGS FOR NEW REFRIGERATION PIPING.
- ② CONTRACTOR TO DO PRE-READ TAB AIR BALANCE FOR TOTAL SUPPLY, TOTAL RETURN, TOTAL OSA & PROVIDE REPORT TO DISTRICT & ENGINEER .
- ③ EXISTING DUCTWORK AND AIR DEVICES TO REMAIN. VERIFY ALL EXISTING LOCATIONS IN FIELD.
- ④ EXISTING THERMOSTAT AND LOW VOLTAGE WIRING TO BE REMOVED AND REPLACE WITH NEW. FIELD VERIFY ALL EXISTING LOCATIONS.

1. CONTRACTOR SHALL VISIT THE JOB SITE AND VERIFY THE SCOPE OF DEMOLITION WORK. DEMOLITION IS INDICATED AS A CONVENIENCE FOR THE CONTRACTOR AND MAY NOT INDICATE THE FULL SCOPE OF DEMOLITION REQUIRED TO COMPLETE THE NEW WORK.
2. ELECTRICAL CONTRACTOR SHALL DISCONNECT POWER FROM MECHANICAL EQUIPMENT TO BE REMOVED. DISCONNECT REQUIRED. CONTRACTOR SHALL RECONNECT POWER TO ALL MECHANICAL EQUIPMENT BEING RE-USED REQUIRED.
3. PRIOR TO ANY WORK BEING DONE CONTRACTOR SHALL MAKE A CAREFUL EVALUATION OF THE EXISTING CONDITIONS AND VERIFY ALL METHODS OF REMOVAL AND INSTALLATION OF MECHANICAL EQUIPMENT.
4. CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK WITH THE WORK OF ALL OTHER TRADES.
5. CONTRACTOR SHALL CLEAN ALL AIR DUCTS TO REMAIN PER SPECIFICATIONS SECTION 23.01.30.5.1.
6. CONTRACTOR SHALL CLEAN ALL EXISTING DUCTWORK INCLUDING LINED DUCTWORK TO REMAIN AFTER SHUTTING DOWN SYSTEMS BY 10:00 A.M. 30 DAYS BEFORE COMMENCEMENT OF ANY WORK ALL EXISTING DUCTWORK TO REMAIN SHALL BE CONFIRMED ON SITE.
7. ANY VENTS, CONDUIT, & GAS LINES LOCATED ON THE ROOF THAT ARE NOT SHOWN ON THIS SHEET AND/OR NOT EXPLICITLY INDICATED TO BE DEMOLISHED, SHALL BE DEMOLISHED AND BE RE-PAIRED TO MATCH CONTRACTOR TO FIELD VERIFY EXISTING ROOF CONDITIONS, AND TAKE MEASURES TO DEMOLISH ONLY THE ITEMS INDICATED.
8. CONTRACTOR SHALL INCLUDE IN THE SCOPE OF WORK ALL WORK REQUIRED TO PATCH, FINISH, MATCH, AND BRUSH AND SURFACES EXISTING AS IMPACTED BY THE AREAS OF NEW WORK.
9. NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING THE DEMOLITION WORK HAVE BEEN APPROVED BY DSA.

10. REFERENCE TO DSA INR-25.2 SECTION 3.
SUSPENDED LAYAN PANEL CEILING: 2022 CBC
- 3.1. CEILING SYSTEM ALTERATION
3.1.1 THE EXISTING GRID IS TO BE MAINTAINED
WHEN ANY PORTION OF AN EXISTING GRID SYSTEM IS
CUT OR ALTERED AND ANY ONE OF THE CONDITIONS
3.1.2 ARE MET IN THE DSA INR-25.2 SECTION 3.1.1. THE
ENTIRE CEILING IN THE AFFECTED SPACE SHALL BE
EVALUATED AND UPGRADED AS REQUIRED TO MEET THE
3.1.3 REQUIREMENTS OF THE DSA INR-25.2 SECTION 3.1.1
WITH DSA CONCURRENCE. OTHER EXISTING LATERAL
BRACING SYSTEMS MAY BE DEEMED EQUIVALENT TO A
3.1.4 COMPRESSION WIRE WITH COMPRESSION POST LATERAL
FORCE BRACING SYSTEM.
- 3.1.1 THE EXISTING CEILING CANNOT HAVE LATERAL
3.1.2 BRACING ASSEMBLIES (I.E., 4-WAY BRACE WIRES AND
COMPRESSION POST).
- 3.1.2 THE EXISTING CEILING HAS LATERAL BRACING
3.1.3 ASSEMBLIES (I.E., 4-WAY BRACE WIRES AND
COMPRESSION POST) WITH SPACING GREATER THAN
12 FEET ON CENTER IN EITHER PRINCIPAL AXIS.
- 3.1.4 THE AREA CANNOT BE LESS THAN ONE PERCENT
OF THE ENTIRE CEILING AREA. THE "ENTIRE" CEILING
IN THE AFFECTED SPACE IS DEFINED AS THE AREA OF
3.1.5 THE CEILING BOUNDED BY THE EXISTING PERIMETER
OF WALLS AND EXPANDED JOINTS OR SEISMIC
SEPARATION JOINTS.
- 3.1.6 THE EXISTING GRID IS NOT CUT OR ALTERED
EVALUATION AND ASSOCIATED UPGRADE TO THE CEILING
GRID, SUSPENSION SYSTEM, AND LATERAL FORCE
3.1.7 BRACING ASSEMBLIES SHALL BE REQUIRED WHEN THE
CEILING GRID IS NOT CUT OR ALTERED, AND THE SCOPE
OF WORK IS LIMITED TO THE FOLLOWING:
- 3.1.8 1. REPLACEMENT OF LUMINAIRES WITH LUMENS
LIKE PANELS OF EQUAL OR LESSER WEIGHT.
- 3.2.2 REPLACEMENT OF LUMINAIRES OR AIR TERMINALS
3.2.3 WITH UNITS OF EQUAL OR LESSER WEIGHT OR
LESSER WEIGHT PLACED IN THE SAME LOCATIONS.

- 3.2.3 REPLACEMENT OF ONLY THE INTERNAL LIGHTING COMPONENTS EXISTING LUMINAIRES AND THE ATTACHMENT OF THE LUMINAIRE'S OUTER ENCLOSURE TO EXISTING GRID IS NOT (E.G. LENS,BALLAST,OR LAMP'S).
- WIRE TIED.
- 3.3 REUSE OF EXISTING CEILING WIRES
- EXISTING CEILING HANGER AND BRACING WIRES MAY BE REUSED PROVIDED THE FOLLOWING REQUIREMENTS ARE MET.
- 3.3.1 WIRE GAUGE AND SPACING COMPLIES WITH THE CURRENT APPLICABLE CODES AND THIS IR.
- 3.3.2 CSA-APPROVED CONSTRUCTION DRAWINGS INDICATE DETAIL OF THE SPlicing SERVICE BETWEEN A NEW AND EXISTING WIRE. ACCEPTABLE WIRE SPLICE DETAILS ARE PROVIDED IN APPENDIX A DETAIL6.10 BELOW.
- 3.3.3 WIRES ARE TESTED IN ACCORDANCE WITH SECTION 6.2 BELOW.



N REF. NORTH

$$1/8^{\circ} = 1'-0^{\circ}$$

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PROJECT NAME

WILL ROGERS ELEMENTARY SCHOOL
LYNWOOD UNIFIED SCHOOL DISTRICT
11220 DUNCAN AVENUE
LYNWOOD, CALIFORNIA, 90262

No.	Rev. Date	Description
	4/27/2026	BACKCHECK PH 1
	6/15/2026	ADDENDUM 1
		
		
JOB NO:		501-26-0008
DATE:		6/15/2026
DRAWN:		ZF
CHECK:		HL
ARCHITECT:		
ENGINEER:		OED
DSA NUMBER:		03-125978
CONSULTANT		

STAMP

SHEET DESCRIPTION:
MECHANICAL
DEMO SECOND
FLOOR PLAN -
BUILDING H

MD-1.2

DEMOLITION KEY NOTES:

1. EXISTING ROOFTOP PACKAGED UNIT TO BE REMOVED. EXISTING ROOF CURB, FLEX CONNECTORS AND SUPPLY AND RETURN AIR DUCT UP THRU ROOF TO REMAIN. PROTECT IN PLACE. SEE ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION. DEMOLISH EXISTING THERMOSTAT AND LOW VOLTAGE WIRING. RETAIN SEISMIC HOLD DOWN PLATES FOR REUSE.
2. EXISTING PLATFORM TO REMAIN.
3. EXISTING CONDENSER UNIT AND EXISTING REFRIGERANT PIPING TO BE REMOVED AND REPLACED WITH NEW. REUSE EXISTING PLATFORM. FOR DAMAGED SHEET METAL CAP AND ROOFING, PROVIDE NEW.

GENERAL DEMOLITION NOTES:

1. CONTRACTOR SHALL VISIT THE JOB SITE AND VERIFY THE SCOPE OF DEMOLITION WORK. DEMOLITION IS INDICATED AS A CONVENIENCE FOR THE CONTRACTOR AND MAY NOT INDICATE THE FULL SCOPE OF DEMOLITION REQUIRED TO COMPLETE THE NEW WORK.
2. ELECTRICAL CONTRACTOR SHALL DISCONNECT POWER FROM MECHANICAL EQUIPMENT TO BE RE-USED AS REQUIRED. CONTRACTOR SHALL RECONNECT POWER TO ALL MECHANICAL EQUIPMENT BEING RE-USED REQUIRED.
3. PRIOR TO ANY WORK BEING DONE CONTRACTOR SHALL MAKE A CAREFUL EVALUATION OF THE EXISTING CONDITIONS AND VERIFY ALL METHODS OF REMOVAL AND INSTALLATION OF MECHANICAL EQUIPMENT.
4. CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK WITH THE WORK OF ALL OTHER TRADES.
5. ANY VENTS, CONDUIT, & GAS LINES LOCATED ON THE ROOF THAT ARE NOT SHOWN ON THIS SHEET AND/OR NOT EXPLICITLY INDICATED TO BE DEMOLISHED, SHALL REMAIN AND BE PROTECTED IN PLACE. CONTRACTOR TO FIELD VERIFY EXISTING ROOF CONDITIONS, AND TAKE MEASURES TO DEMOLISH ONLY THE ITEMS INDICATED.
6. CONTRACTOR SHALL INCLUDE IN THE SCOPE OF WORK ALL WORK REQUIRED TO PATCH, FINISH, MATCH, AND BLEND NEW SURFACES TO EXISTING AS IMPACTED BY THE AREAS OF NEW WORK.
7. NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING THE DEMOLITION WORK HAVE BEEN APPROVED BY DSA.

AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125978 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☐
DATE: 05/26/2026



Consulting Engineers
5200 E. La Palma Ave
Anaheim, CA 92807
Telephone: (714) 693-2277

STAMP



PROJECT NAME:

WILL ROGERS ELEMENTARY SCHOOL
LYNWOOD UNIFIED SCHOOL DISTRICT
11220 DUNCAN AVENUE
LYNWOOD, CALIFORNIA, 90262

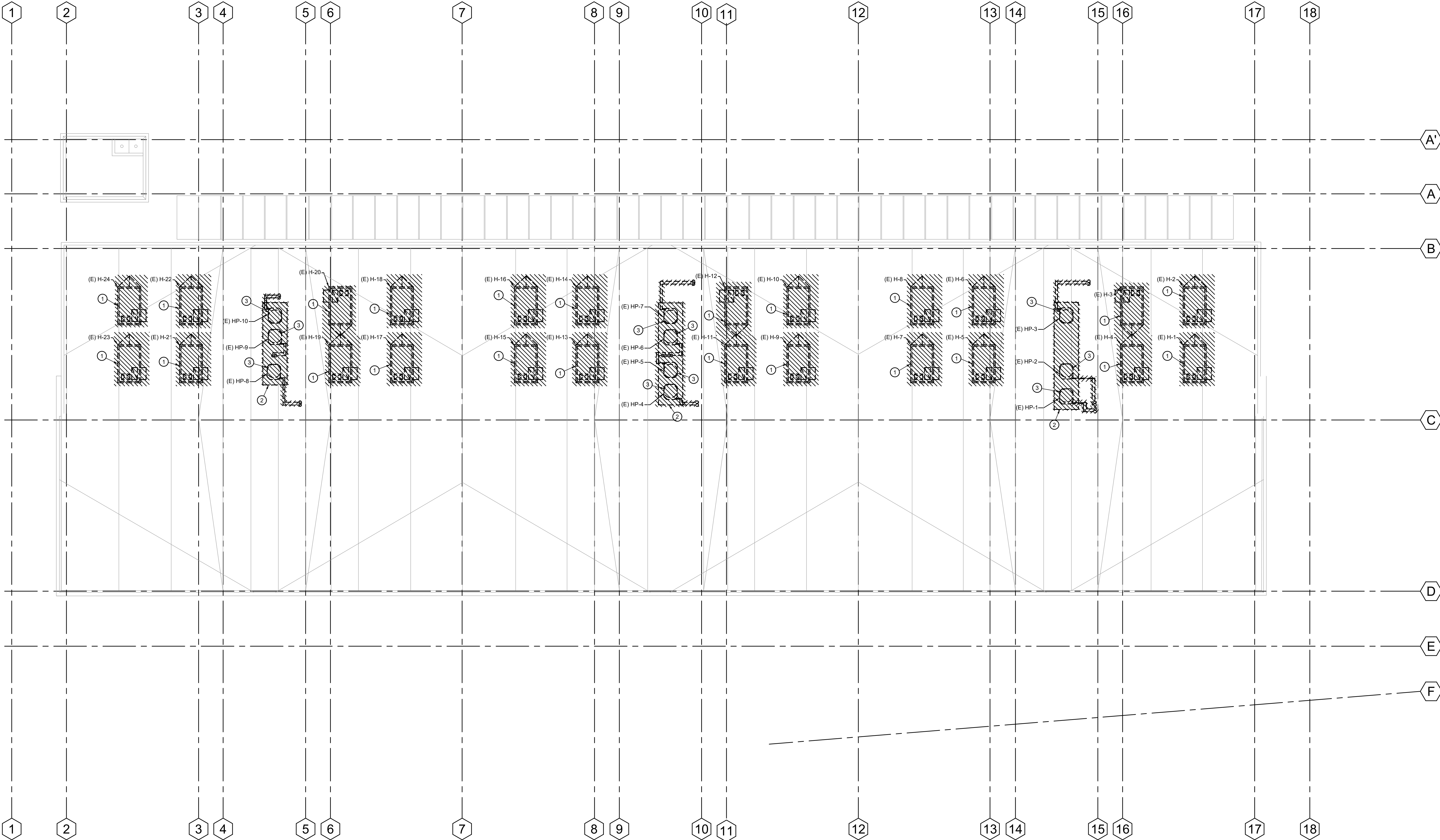
No.	Rev. Date	Description
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SHEET DESCRIPTION:
MECHANICAL
DEMO ROOF
PLAN -
BUILDING H

SHEET NO:

MD-1.3



MECHANICAL DEMO ROOF PLAN - BUILDING H

1/8" = 1'-0"

1

MECHANICAL KEY NOTES:

- NEW 3/8" & 5/8" G REFRIGERANT LINES DOWN FROM THE ROOF. CONTRACTOR SHALL FIELD VERIFY EXISTING REFRIGERANT PIPING ROUTING AND PROVIDE NEW REFRIGERANT PIPING FOLLOWING THE SAME ROUTING.
- INSTALL NEW UNIT AT SAME LOCATION AS EXISTING. PROVIDE 30"X30" ACCESS CLEARANCE TO SERVICE THE FC UNITS. SEE STRUCTURAL DETAILS 2/S201 FOR FAN COIL ANCHORAGE.
- RECONNECT TO EXISTING DUCTWORK.
- EXISTING DUCTWORK AND AIR DEVICES TO REMAIN.
- INSTALL NEW SENVA TOTAL SENSE SERIES AQ2W-ACAAAAD NON-DISPLAY CO2 SENSOR AT 48" AFF. FIELD VERIFY ALL EXISTING LOCATIONS. INSTALL LOW VOLTAGE WIRING PER MANUFACTURER GUIDELINES.
- INSTALL NEW THERMOSTAT AT 48" AFF AT SAME LOCATION AS EXISTING. FIELD VERIFY ALL EXISTING LOCATIONS. INSTALL LOW VOLTAGE WIRING MATCHING EXISTING PATH FOR THERMOSTAT AND CO2 SENSOR POWER AND FOR CO2 SENSOR TO CONTROL NEW UNIT ECONOMIZER PER MANUFACTURER GUIDELINES. SEE DETAIL 1/M-4.2 FOR SENVA CO2 WIRING.

CONSTRUCTION NOTES:

- CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES AS NECESSARY PRIOR TO INSTALLATION.
- BEFORE BIDDING ON THIS WORK, THE CONTRACTOR SHALL MAKE A CAREFUL EXAMINATION OF THE PREMISES, EXISTING EQUIPMENT AND SERVICES. HE SHALL DETERMINE IN ADVANCE, THE METHODS OF INSTALLING AND CONNECTING THE NEW EQUIPMENT, DUCTWORK, AND PIPING THE MEANS TO BE PROVIDED FOR GETTING THE EQUIPMENT AND MATERIALS INTO PLACE AND SHALL MAKE HIMSELF THOROUGHLY FAMILIAR WITH ALL OF THE REQUIREMENTS OF THE PROJECT. FAILURE TO VISIT THE SITE WILL IN NO WAY RELIEVE THE CONTRACTOR OF THE NECESSITY OF FURNISHING ANY MATERIAL OR PERFORMING ANY WORK THAT MAY BE REQUIRED TO COMPLETE THE WORK IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS. THIS ADDITIONAL WORK SHALL BE PERFORMED WITHOUT ADDITIONAL COST TO THE OWNER.
- BEFORE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS AND DIMENSIONS OF ALL EXISTING EQUIPMENT AND ELECTRICAL SERVICES IN THE AREA OF CONSTRUCTION AND NOTIFY THE ENGINEER OR ANY DISCREPANCIES.
- PATCH AND REPAIR EXISTING SURFACES AS REQUIRED TO FACILITATE DEMOLITION AND/OR PERFORMANCE OF THE NEW WORK. ALL NEW WORK SHALL MATCH IN KIND, QUALITY AND FINISH U.O.N.
- CONTRACTOR SHALL MINIMIZE IMPACT TO EXISTING CEILING AND IMPLEMENT MEASURES TO MITIGATE DAMAGE TO THE EXISTING CEILING SYSTEM. THE CONTRACTOR SHALL REPAIR AND REPLACE ALL TILES DAMAGED DURING CONSTRUCTION.
- CONTRACTOR TO PROVIDE POST AIR BALANCE FOR NEW SYSTEM AND AIR DISTRIBUTION. SEE SPECIFICATION SECTION 23 05 93 FOR ADDITIONAL INFORMATION.
- REFER TO DSA R-25-2 SECTION 3.3.1 EXISTING GRID CUT OR ALTERED WHEN ANY PORTION OF AN EXISTING GRID SYSTEM IS CUT OR ALTERED AND ANY ONE OF THE CONDITIONS DESCRIBED IN THE SUBSECTIONS BELOW APPLIES. THE ENTIRE CEILING IN THE AFFECTED SPACE SHALL BE EVALUATED AND UPGRADED AS REQUIRED TO MEET THE REQUIREMENTS OF THE CURRENT CBC AND THIS IR WITH DSA CONCURRENCE. OTHER EXISTING LATERAL BRACING SYSTEMS MAY BE DEEMED EQUIVALENT TO A 4-WAY BRACE WIRE AND COMPRESSION POST LATERAL FORCE BRACING SYSTEM.
 - 3.1.1 THE EXISTING CEILING DOES NOT HAVE LATERAL BRACING ASSEMBLIES (I.E. 4-WAY BRACE WIRES AND COMPRESSION POST).
 - 3.1.2 THE EXISTING CEILING HAS LATERAL BRACING ASSEMBLIES (I.E. 4-WAY BRACE WIRES AND COMPRESSION POST) WITH SPACING GREATER THAN 12- FEET ON CENTER IN EITHER PRINCIPAL AXIS.
 - 3.1.3 THE AREA CUT OR ALTERED EXCEEDS 10 PERCENT OF THE ENTIRE CEILING AREA. THE "ENTIRE" CEILING IN THE AFFECTED SPACE IS DEFINED AS THE AREA OF CEILING BOUNDED BY FOUR WALLS OR A COMBINATION OF WALLS AND EXPANSION JOINTS OR SEISMIC SEPARATION JOINTS.
 - 3.2 EXISTING GRID NOT CUT OR ALTERED EVALUATION AND ASSOCIATED UPGRADE TO THE CEILING GRID, SUSPENSION SYSTEM, AND LATERAL FORCE BRACING ASSEMBLIES IS NOT REQUIRED WHEN THE CEILING GRID IS NOT CUT OR ALTERED, AND THE SCOPE OF WORK IS LIMITED TO THE FOLLOWING:
 - 3.2.1 REPLACEMENT OF EXISTING CEILING PANELS WITH LIKE PANELS OF EQUAL OR LESSER WEIGHT.
 - 3.2.2 REPLACEMENT OF LUMINAIRES OR AIR TERMINALS WITH LIKE UNITS (I.E. EQUAL SIZE AND EQUAL OR LESSER WEIGHT) PLACED IN THE SAME LOCATIONS.
 - 3.2.3 REPLACEMENT OF ONLY THE INTERNAL LIGHTING COMPONENTS EXISTING LUMINAIRES AND THE ATTACHMENT OF THE LUMINAIRE'S OUTER ENCLOSURE TO EXISTING GRID IS NOT (E.G. LENS, BALLAST OR LAMPS) WITHIN ALTERED.
 - 3.3 REUSE OF EXISTING CEILING WIRES EXISTING CEILING HANGER AND BRACING WIRES MAY BE REUSED PROVIDED THE FOLLOWING REQUIREMENTS ARE MET:
 - 3.3.1 WIRE GAUGE AND SPACING COMPLIES WITH THE CURRENT APPLICABLE CODES AND THIS IR.
 - 3.3.2 DSA-APPROVED CONSTRUCTION DRAWINGS INCLUDE A DETAIL SPECIFYING THE SPLICE BETWEEN A NEW AND EXISTING WIRE. ACCEPTABLE WIRE SPLICE DETAILS ARE PROVIDED IN APPENDIX A DETAIL 6.10 BELOW.
 - 3.3.3 WIRES ARE TESTED IN ACCORDANCE WITH SECTION 6.2 BELOW.

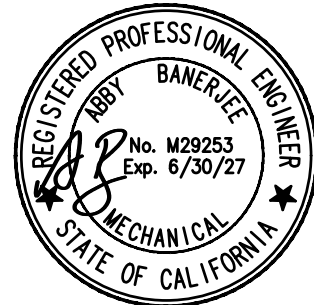
WALL MATERIAL LEGEND	
---	1-HR. FIRE RATED WALL

AGENCY APPROVAL	APPROVED FOR THE PROJECT
	APP: 03-125978, INC.
	REVIEWED FOR
	FILED: ACS
	DATE: 08/12/2026



Consulting Engineers
5200 E. La Palma Ave
Anaheim, CA 92807
Telephone: (714) 693-2277

STAMP



PROJECT NAME:

WILL ROGERS ELEMENTARY SCHOOL
LYNWOOD UNIFIED SCHOOL DISTRICT
11220 DUNCAN AVENUE
LYNWOOD, CALIFORNIA, 90262

No.	Rev. Date	Description
1	4/27/2026	BACKCHECK PH 1
2	6/15/2026	ADDENDUM 1
3		
4		
JOB NO: 501-26-0008		
DATE: 6/15/2026		
DRAWN: ZF		
CHECK: HL		
ARCHITECT:		
ENGINEER: OED		
DSA NUMBER: 03-125978		
CONSULTANT		

STAMP

SHEET DESCRIPTION:
MECHANICAL
FIRST FLOOR
PLAN - BUILDING H

SHEET NO:

M-1.1

MECHANICAL FIRST FLOOR PLAN - BUILDING H



1/8" = 1'-0"

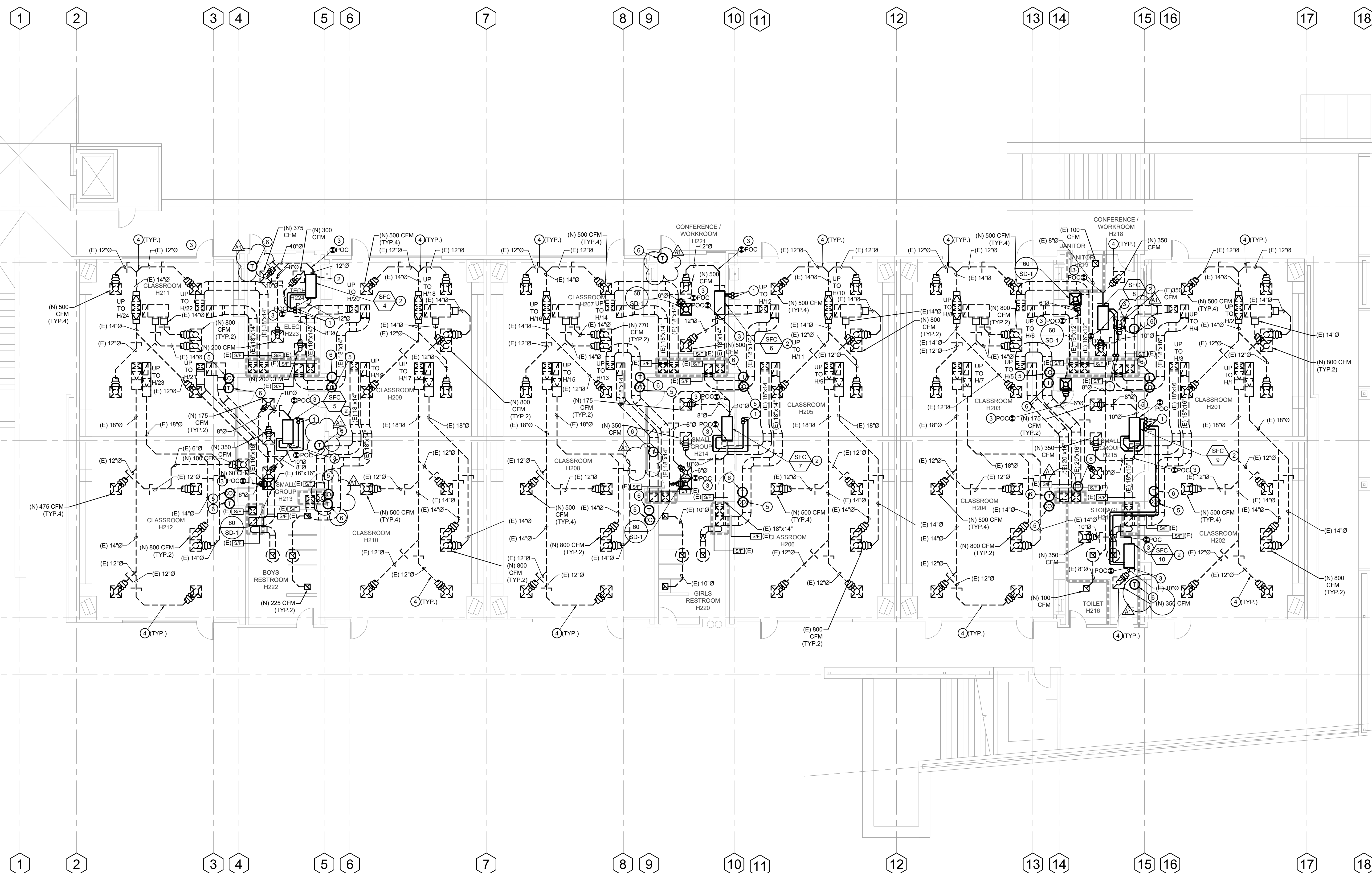
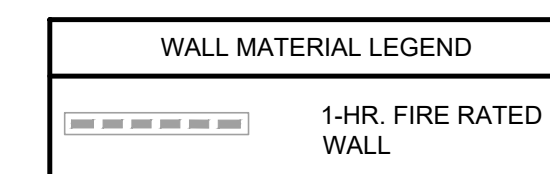
1

1. NEW 3/8" & 5/8" REFRIGERANT LINES DOWN FROM THE ROOF. CONTRACTOR SHALL FIELD VERIFY EXISTING REFRIGERANT PIPING ROUTING AND PROVIDE NEW REFRIGERANT PIPING FOLLOWING THE SAME ROUTING.
2. INSTALL NEW UNIT AT SAME LOCATION AS EXISTING. PROVIDE 30"x30" ACCESS CLEARANCE TO SERVICE THE UNIT. SEE STRUCTURAL DETAILS 2/5201 FOR FAN COIL ANCHORAGE.
3. RECONNECT TO EXISTING DUCTWORK.
4. EXISTING DUCTWORK AND AIR DEVICES TO REMAIN.
5. INSTALL NEW CO2 SENSOR AT 48" AFF. FIELD VERIFY ALL EXISTING LOW VOLTAGE AND LOW VOLTAGE WIRING FOR MANUFACTURER GUIDELINES.
6. INSTALL NEW THERMOSTAT AT 48" AFF AT SAME LOCATION AS EXISTING. FIELD VERIFY EXISTING LOW VOLTAGE WIRING MATCHING EXISTING PATH FOR THERMOSTAT AND CO2 SENSOR POWER AND FOR CO2 SENSOR TO CONTROL NEW UNIT THERMOSTAT PER MANUFACTURER GUIDELINES. SEE DETAILS 1M-4.2 FOR SENA CO WIRING.

1. CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES AS NECESSARY PRIOR TO INSTALLATION.
2. BEFORE BIDDING ON A CAREFUL WORK, THE CONTRACTOR SHALL MAKE A CAREFUL EXAMINATION OF THE PREMISES, EXISTING EQUIPMENT AND SERVICES. HE SHALL DETERMINE IN ADVANCE, THE METHODS OF INSTALLING AND CONNECTING THE EQUIPMENT, DUCTWORK, AND PIPING THE MEANS TO BE PROVIDED FOR GETTING THE EQUIPMENT AND MATERIALS INTO PLACE AND SHALL MAKE HIMSELF THOROUGHLY FAMILIAR WITH ALL OF THE REQUIREMENTS OF THE PROJECT. FAILURE TO VISIT THE SITE WILL IN NO WAY EXCUSE THE CONTRACTOR FROM THE RESPONSIBILITY OF FURNISHING ANY MATERIAL OR PERFORMING ANY WORK THAT MAY BE REQUIRED TO COMPLETE THE PROJECT IN ACCORDANCE WITH THE ORDINANCES AND SPECIFICATIONS. THIS ADDITIONAL WORK SHALL BE PERFORMED WITHOUT ADDITIONAL COST TO THE OWNER.
3. BEFORE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS AND DIMENSIONS OF ALL EXISTING MECHANICAL AND ELECTRICAL SERVICES IN THE AREA OF CONSTRUCTION AND NOTIFY THE ENGINEER OR ANY DISCREPANCIES.
4. PATCH AND REPAIR EXISTING SURFACES AS REQUIRED TO FACILITATE DEMOLITION AND/OR PERFORMANCE OF ALL NEW WORK. ALL NEW WORK SHALL MATCH IN KIND, QUALITY AND FINISH U.O.N.
5. CONTRACTOR SHALL MINIMIZE IMPACT TO EXISTING CEILING AND IMPLEMENT MEASURES TO MITIGATE DAMAGE TO THE EXISTING CEILING SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE ALL TILES DAMAGED DURING CONSTRUCTION.

6. **CONTRACTOR SHALL PROVIDE POST AIR BALANCE FOR NEW SYSTEM AND AIR DISTRIBUTION. SEE SPECIFICATION SECTION 23.05.93 FOR ADDITIONAL INFORMATION.**
7. **REFERENCE TO ISA IR-25.2 SECTION 3.**
8. **SUSPENDED LAY-IN PANEL CEILING: 2022 CBC**
- **3. CEILING SYSTEM ALTERATION**
 - **3.1 EXISTING GRID NOT CUT OR ALTERED**
 - **WHEN ANY PORTION OF AN EXISTING GRID SYSTEM IS CUT OR ALTERED AND ANY ONE OF THE CONDITIONS LISTED IN THE AREA OF THE CEILING IS MET, THIS IS THE ENTIRE CEILING IN THE AFFECTED SPACE SHALL BE EVALUATED AND UPGRADED AS REQUIRED TO MEET THE REQUIREMENTS OF THE 2022 CBC. IF THE CEILING IS NOT WITH A DSA CONCURRENCE, OTHER EXISTING LATERAL BRACING SYSTEMS MAY BE DEEMED EQUIVALENT TO A 4-WAY BRACING WIRE WITH COMPRESSION POST LATERAL FORCE BRACING SYSTEM.**
 - **3.1.1 THE EXISTING CEILING DOES NOT HAVE LATERAL BRACING ASSEMBLIES (I.E. 4-WAY BRACE WIRES AND COMPRESSION POST).**
 - **3.1.2 THE EXISTING CEILING HAS LATERAL BRACING ASSEMBLIES (I.E. 4-WAY BRACE WIRES AND COMPRESSION POST) AND THE CEILING IS MORE THAN 12- FEET ON CENTER IN EITHER PRINCIPAL AXIS.**
 - **3.1.3 THE AREA CUT OR ALTERED EXCEEDS 10 PERCENT OF THE ENTIRE CEILING AREA. THE AREA OF CEILING IN THE AFFECTED SPACE IS DEFINED AS THE AREA OF CEILING BOUNDED BY FOUR WALLS OR A COMBINATION OF WALLS AND EXPANSION JOINTS OR SEISMIC SEPARATION JOINTS.**
 - **3.2 EXISTING GRID NOT CUT OR ALTERED**
 - **EVALUATION AND ASSESSMENT OF THE CEILING TO THE CEILING GRID SUSPENSION SYSTEM AND LATERAL FORCE BRACING ASSEMBLIES IS NOT REQUIRED WHEN THE EXISTING GRID IS NOT CUT OR ALTERED, AND THE SCOPE OF WORK IS LIMITED TO THE FOLLOWING:**

3.2.1 REPLACEMENT OF EXISTING GLAZED PANELS WITH LIKE PANELS OF EQUAL OR LESSER WEIGHT;
3.2.2 REPLACEMENT OF LUMINAIRES OR AIR TERMINALS WITH LIKE UNITS (I.E. EQUAL SIZE AND EQUAL OR LESSER WEIGHT) PLACED IN THE SAME LOCATIONS;
3.2.3 REPLACEMENT OF ONLY THE INTERNAL LIGHTING FIXTURES EXISTING IN THE LUMINAIRE ENCLOSURE ATTACHMENT OF THE LUMINAIRE'S OUTER ENCLOSURE TO EXISTING GRID IS NOT (E.G. LENS, BALLAST, OR LAMPS) BEING ALTERED;
3.3 REUSE OF EXISTING CEILING WIRING
EXISTING CEILING HANGER AND BRACING WIRING MAY BE REUSED PROVIDED THE FOLLOWING REQUIREMENTS ARE MET:
3.3.1 WIRE GAUGE AND SPACING COMPLIES WITH THE MINIMUM APPLICATION REQUIREMENTS;
3.3.2 USE-APPROVED CONSTRUCTION DRAWINGS INCLUDE A DETAIL SPECIFYING THE SPICE BETWEEN A NEW WIRE AND EXISTING WIRE;
3.3.3 THE FOLLOWING DETAILS ARE PROVIDED IN APPENDIX A DETAIL# 10 BELOW:
3.3.4 THE WIRING ARE TIED TOGETHER WITH SECTION 3.2 BELOW.


$$1/8'' = 1'-0''$$

1

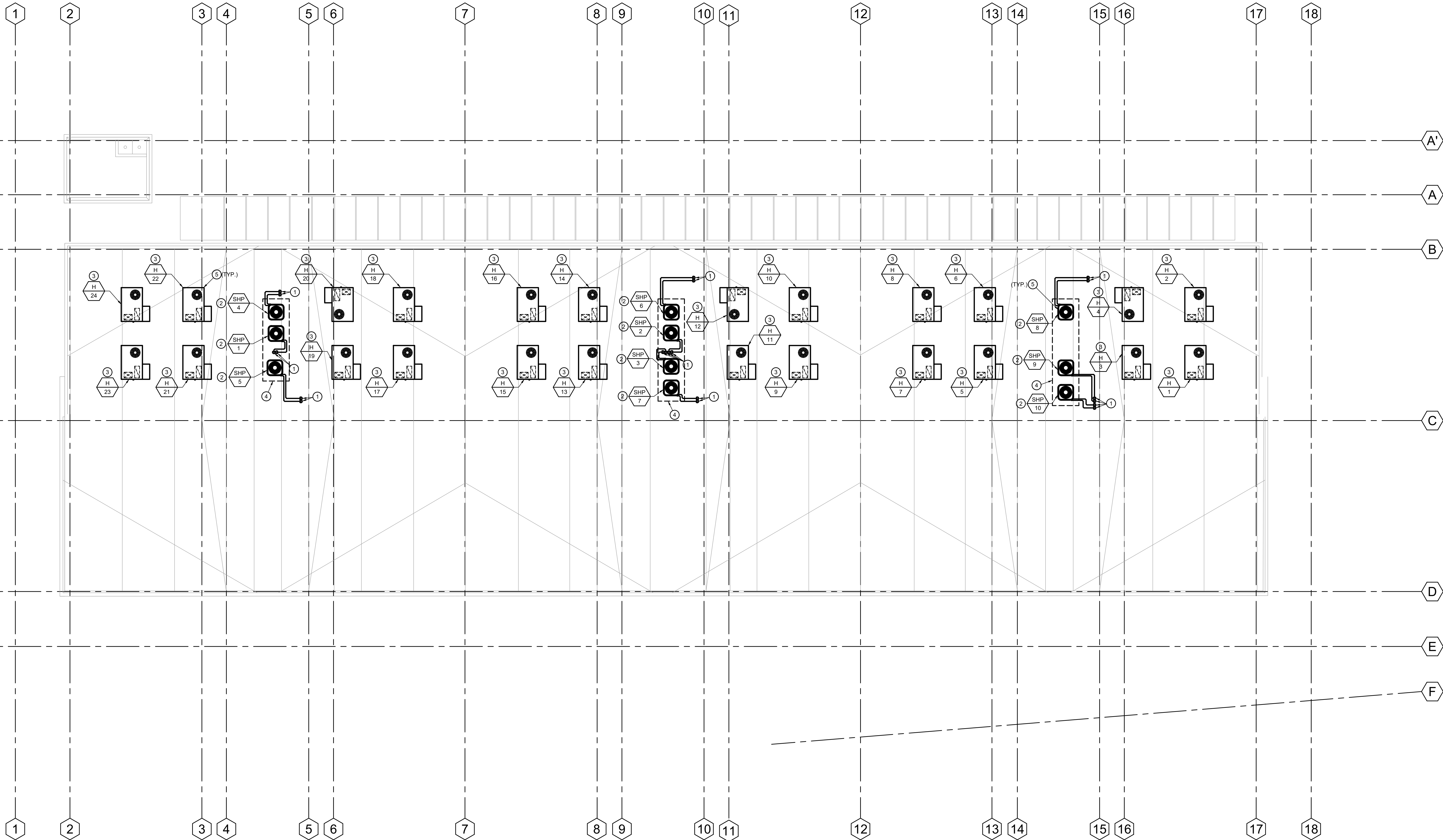
No.	Rev. Date	Description
	4/27/2026	BACKCHECK PH 1
	6/15/2026	ADDENDUM 1
		
		
JOB NO:		501-26-0008
DATE:		6/15/2026
DRAWN:		ZF
CHECK:		HL
ARCHITECT:		
ENGINEER: OED		
DSA NUMBER: 03-125978		
CONSULTANT		

MECHANICAL KEY NOTES:

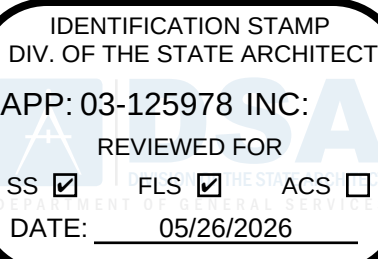
- 1 NEW 3/8" L & 5/8" O REFRIGERANT LINES DOWN TO THE LEVEL BELOW AND CONNECT TO THE INDOOR UNITS. SEE CONSTRUCTION NOTE 5.
- 2 SEE DETAIL 1/5201 FOR ANCHORAGE. EXISTING PLATFORM TO REMAIN. FOR DAMAGED SHEET METAL CAP AND ROOFING REPLACEMENT PROVIDE NEW.
- 3 SEE DETAIL 3/5201 FOR ANCHORAGE. EXISTING ROOF CURB TO REMAIN. FOR DAMAGED ROOF CURB REPLACEMENT PROVIDE NEW. REUSE EXISTING SEISMIC CLIPS FOR CONNECTION TO EXISTING CURB. FOR MISSING OR DAMAGED SEISMIC CLIPS, PROVIDE NEW PER DETAIL 5/M-4.1.
- 4 EXISTING PLATFORM TO REMAIN.
- 5 INSTALL NEW FLUE DEFLECTOR PER MANUFACTURER GUIDELINES AND EXTEND 3'-0" ABOVE THE TOP OF OSA INTAKE HOOD.

CONSTRUCTION NOTES:

1. CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES AS NECESSARY PRIOR TO INSTALLATION.
2. BEFORE BIDDING ON THIS WORK, THE CONTRACTOR SHALL MAKE A CAREFUL EXAMINATION OF THE PREMISES, EXISTING EQUIPMENT AND SERVICES. HE SHALL DETERMINE IN ADVANCE, THE METHODS OF INSTALLING AND CONNECTING THE NEW EQUIPMENT, DUCTWORK, AND PIPING THE MEANS TO BE PROVIDED FOR GETTING THE EQUIPMENT AND MATERIALS INTO PLACE AND SHALL MAKE HIMSELF THOROUGHLY FAMILIAR WITH ALL OF THE REQUIREMENTS OF THE PROJECT. FAILURE TO VISIT THE SITE WILL, IN NO WAY RELIEVE THE CONTRACTOR OF THE NECESSITY OF FURNISHING ANY MATERIAL OR PERFORMING ANY WORK THAT MAY BE REQUIRED TO COMPLETE THE WORK IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS. THIS ADDITIONAL WORK SHALL BE PERFORMED WITHOUT ADDITIONAL COST TO THE OWNER.
3. BEFORE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS AND DIMENSIONS OF ALL EXISTING EQUIPMENT AND ELECTRICAL SERVICES IN THE AREA OF CONSTRUCTION AND NOTIFY THE ENGINEER OR ANY DISCREPANCIES.
4. PATCH AND REPAIR EXISTING SURFACES AS REQUIRED TO FACILITATE DEMOLITION AND/OR PERFORMANCE OF THE NEW WORK. ALL NEW WORK SHALL MATCH IN KIND, QUALITY AND FINISH U.O.N.
5. CONTRACTOR SHALL INSULATE ALL REFRIGERANT SUCTION AND LIQUID PIPING INCLUDING JOINTS AND PIPING SUPPORTS. INSULATION WALL THICKNESS SHALL BE PER 2025 ENERGY CODE REQUIREMENT. PROVIDE WEATHER JACKETING FOR ALL EXTERIOR REFRIGERANT PIPING. USE ALUMINUM BANDS TO TIE DOWN JACKET. NO SCREWS SHALL PENETRATE INSULATION.
6. SEE SCHEDULE FOR UNITS WITH POWER EXHAUST AND PROVIDE SEPARATE POWER FOR THE POWER EXHAUST MODULE.



AGENCY APPROVAL



Consulting Engineers
5200 E. La Palma Ave
Anaheim, CA 92807
Telephone (714) 693-2277

STAMP



PROJECT NAME:

WILL ROGERS ELEMENTARY SCHOOL
LYNWOOD UNIFIED SCHOOL DISTRICT
11220 DUNCAN AVENUE
LYNWOOD, CALIFORNIA, 90262

No.	Rev.	Date	Description
1		4/27/2026	BACKCHECK PH 1
2			
3			
4			

JOB NO: 501-26-0008

DATE: 3/23/2026

DRAWN: ZF

CHECK: HL

ARCHITECT:

ENGINEER: OED

DSA NUMBER: 03-125978

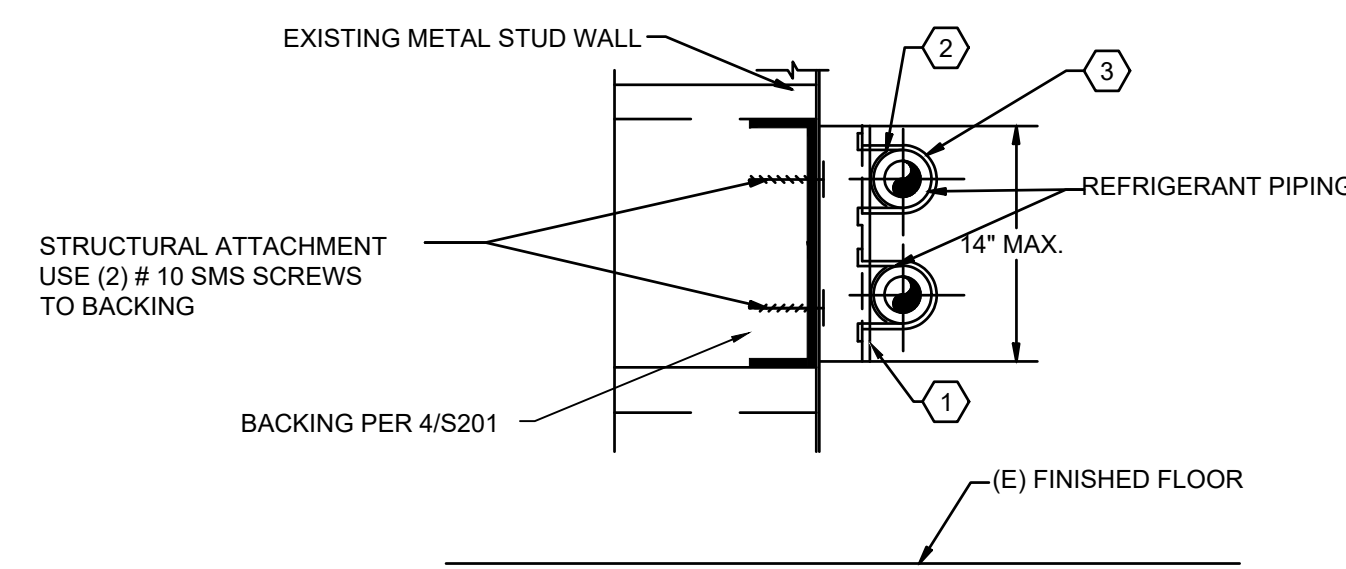
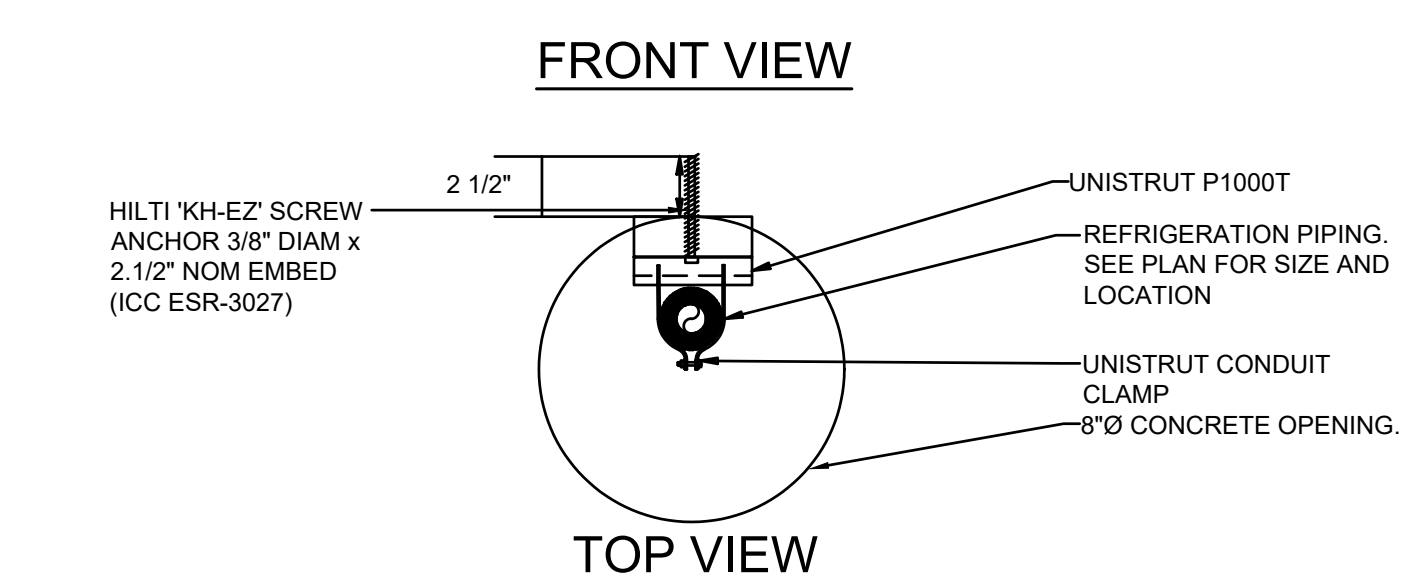
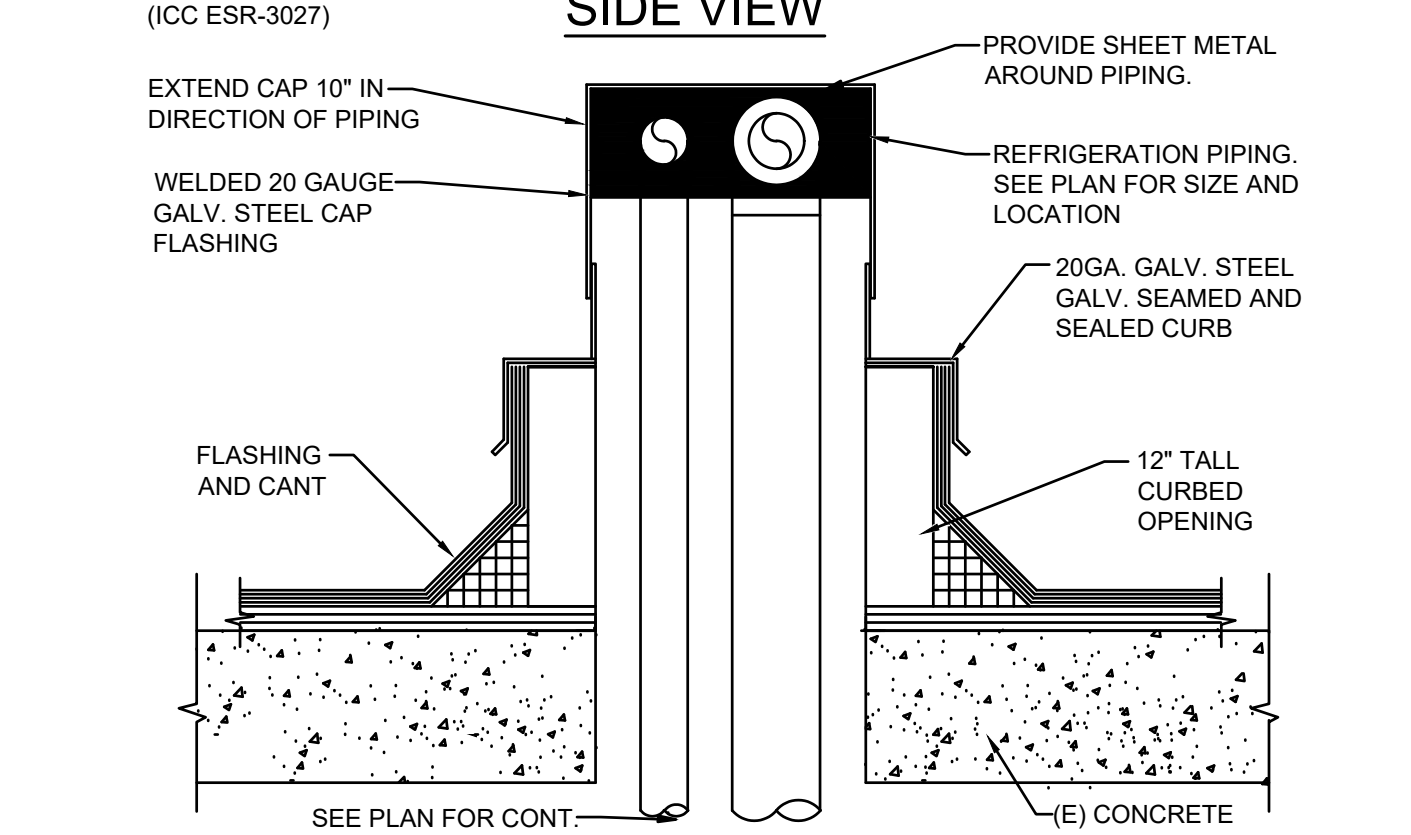
CONSULTANT

STAMP

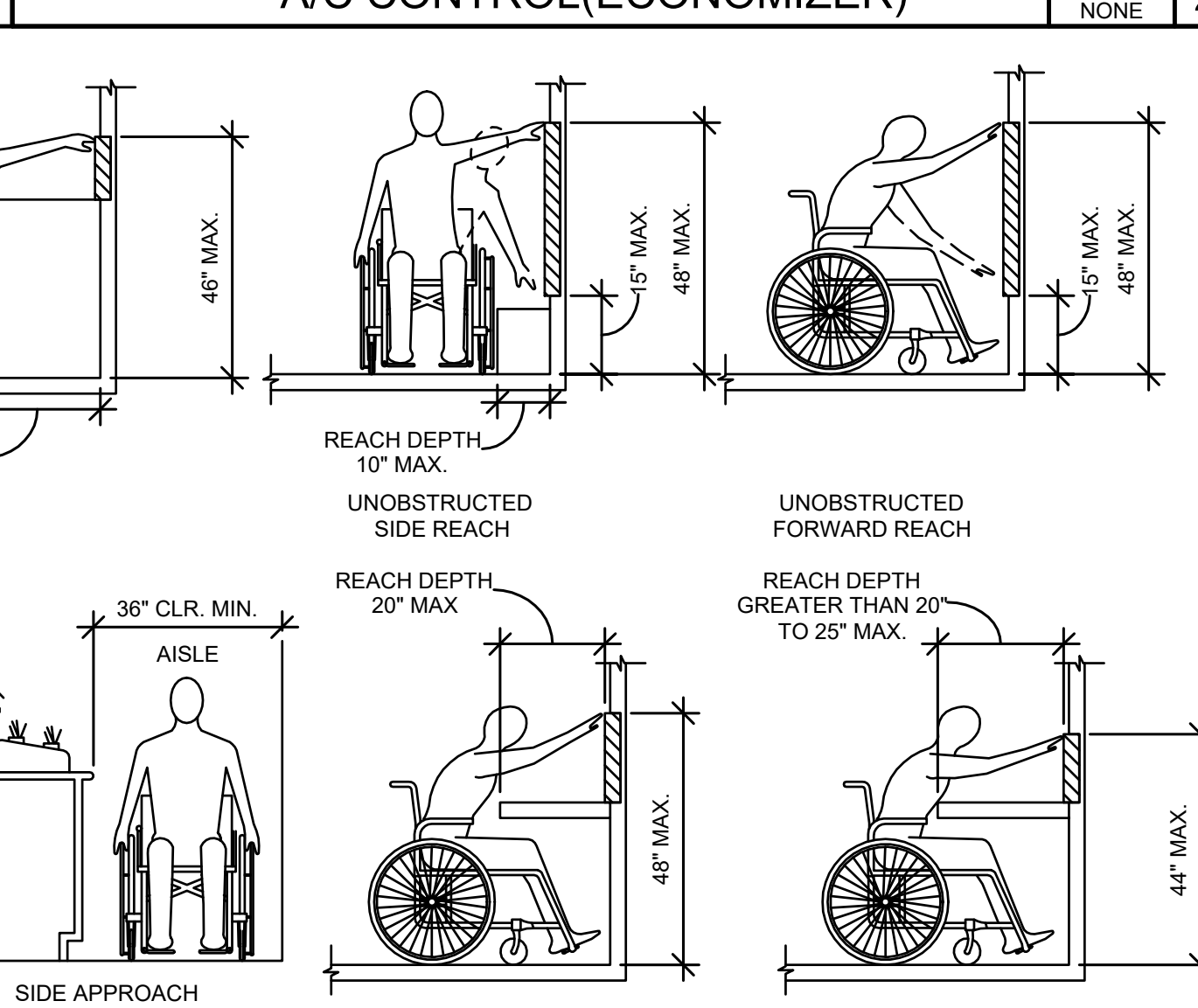
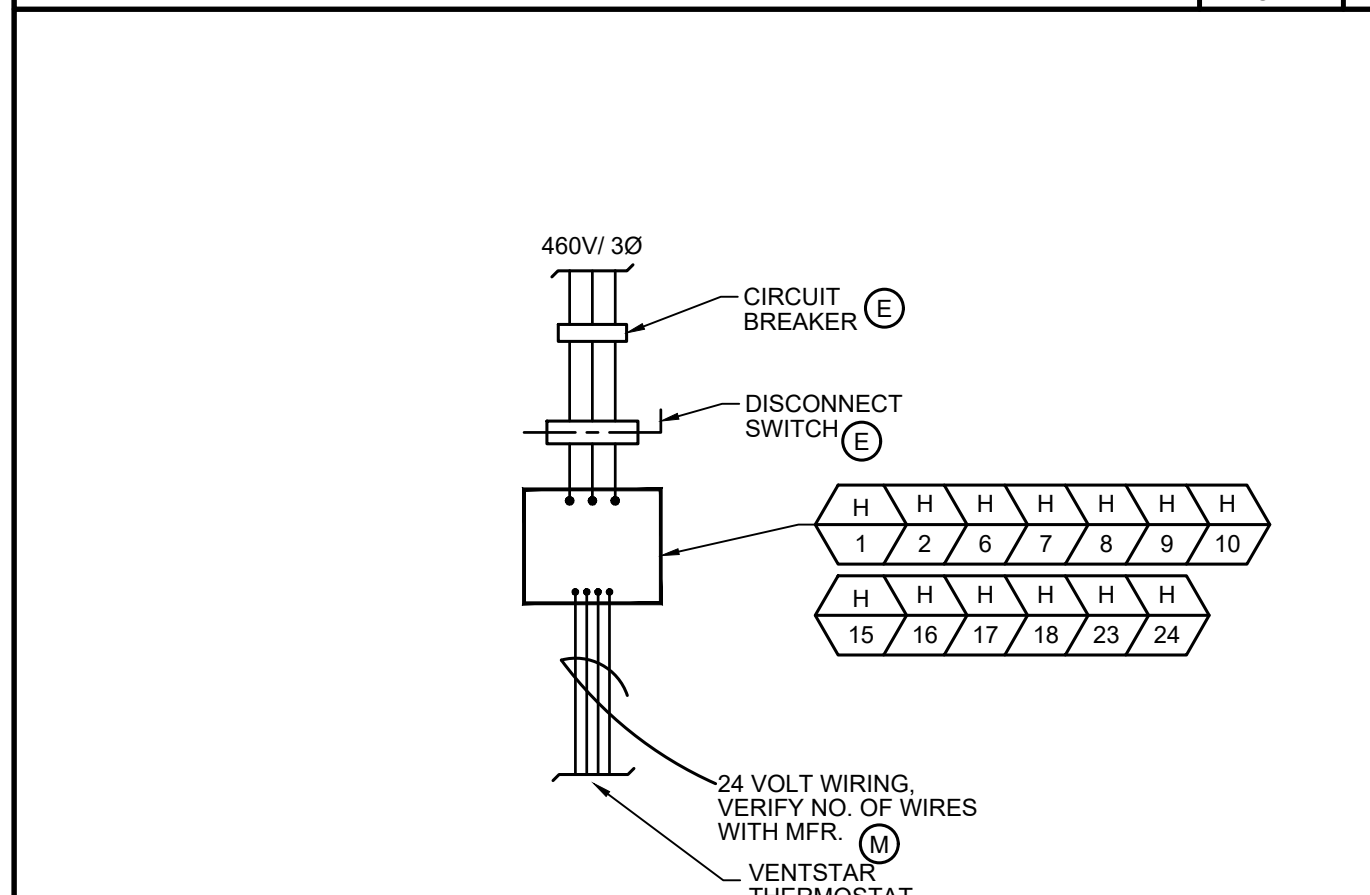
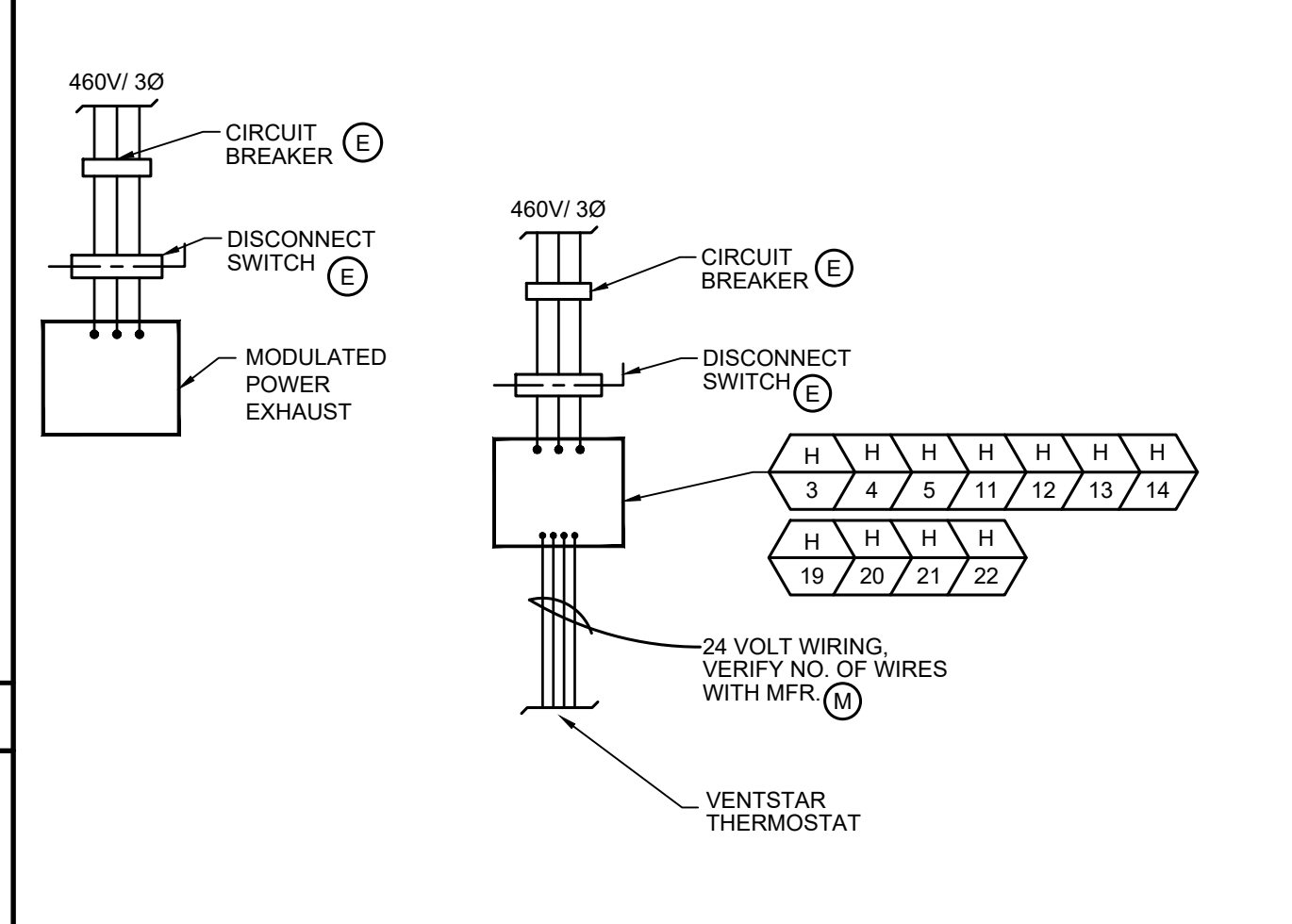
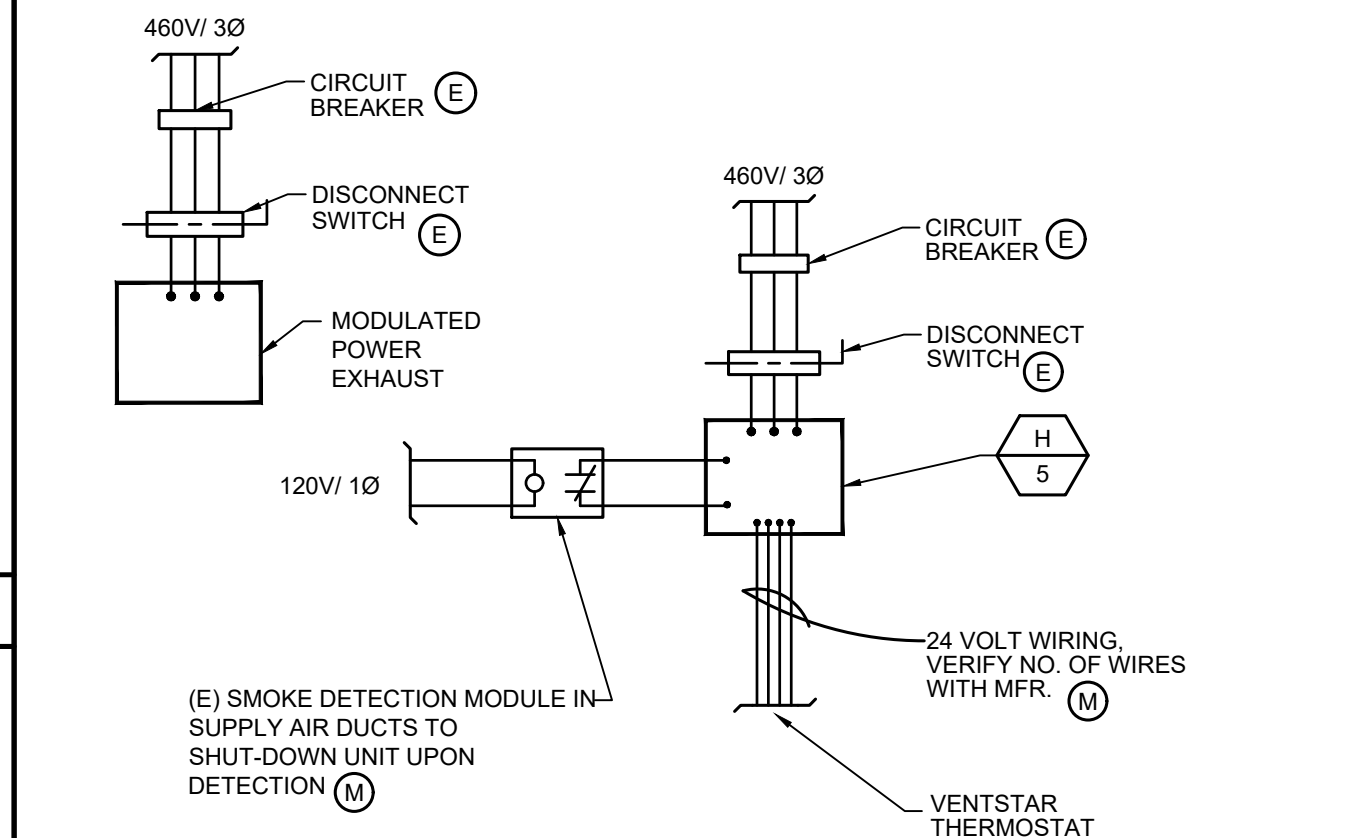
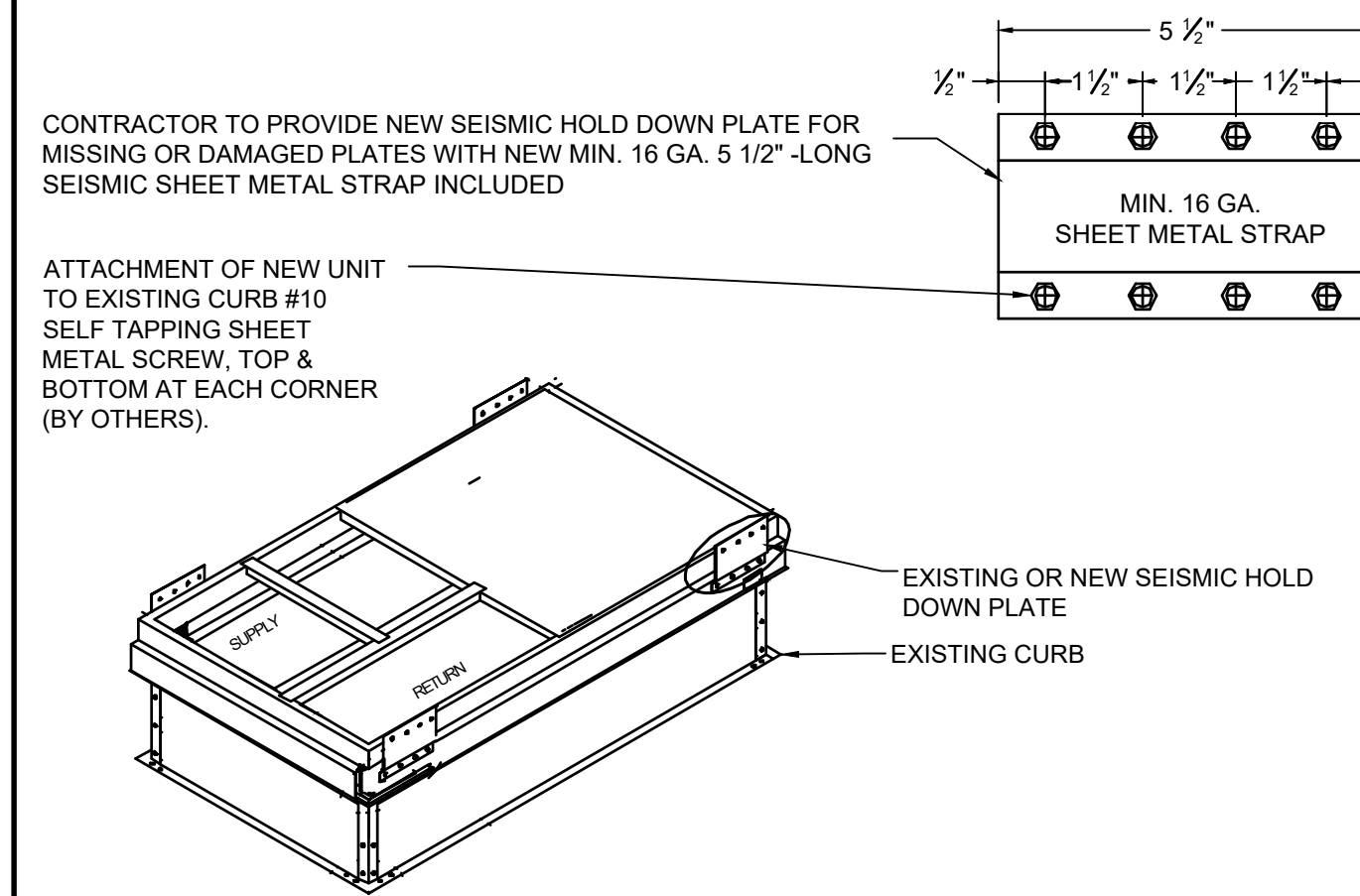
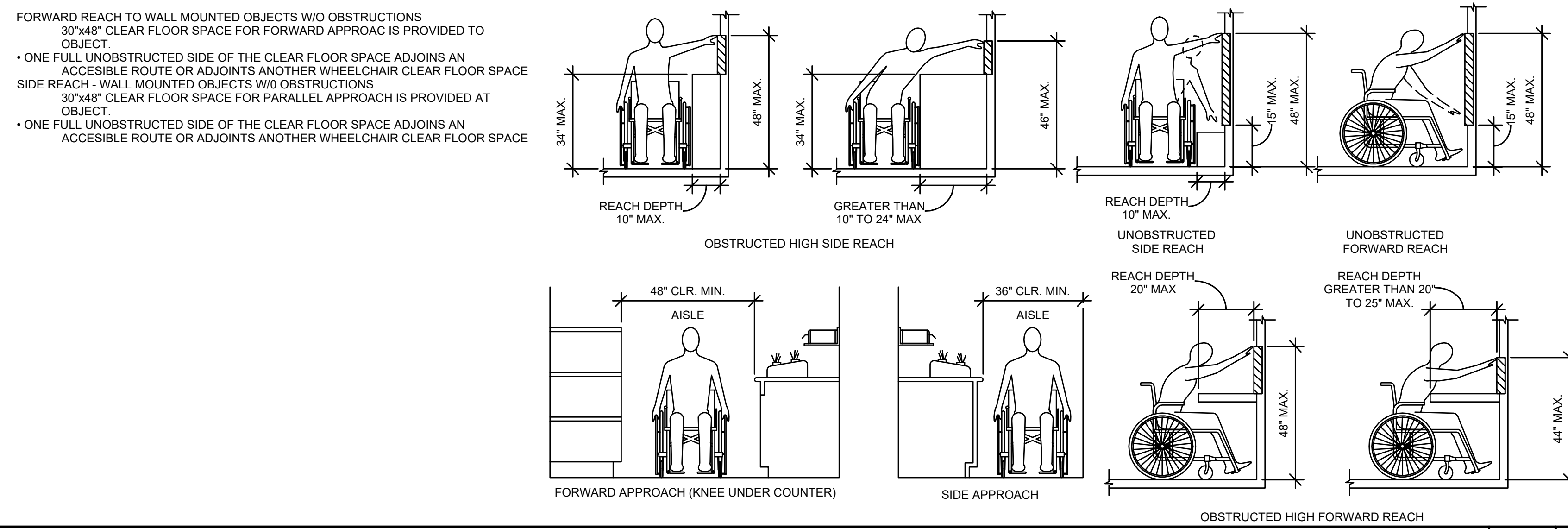
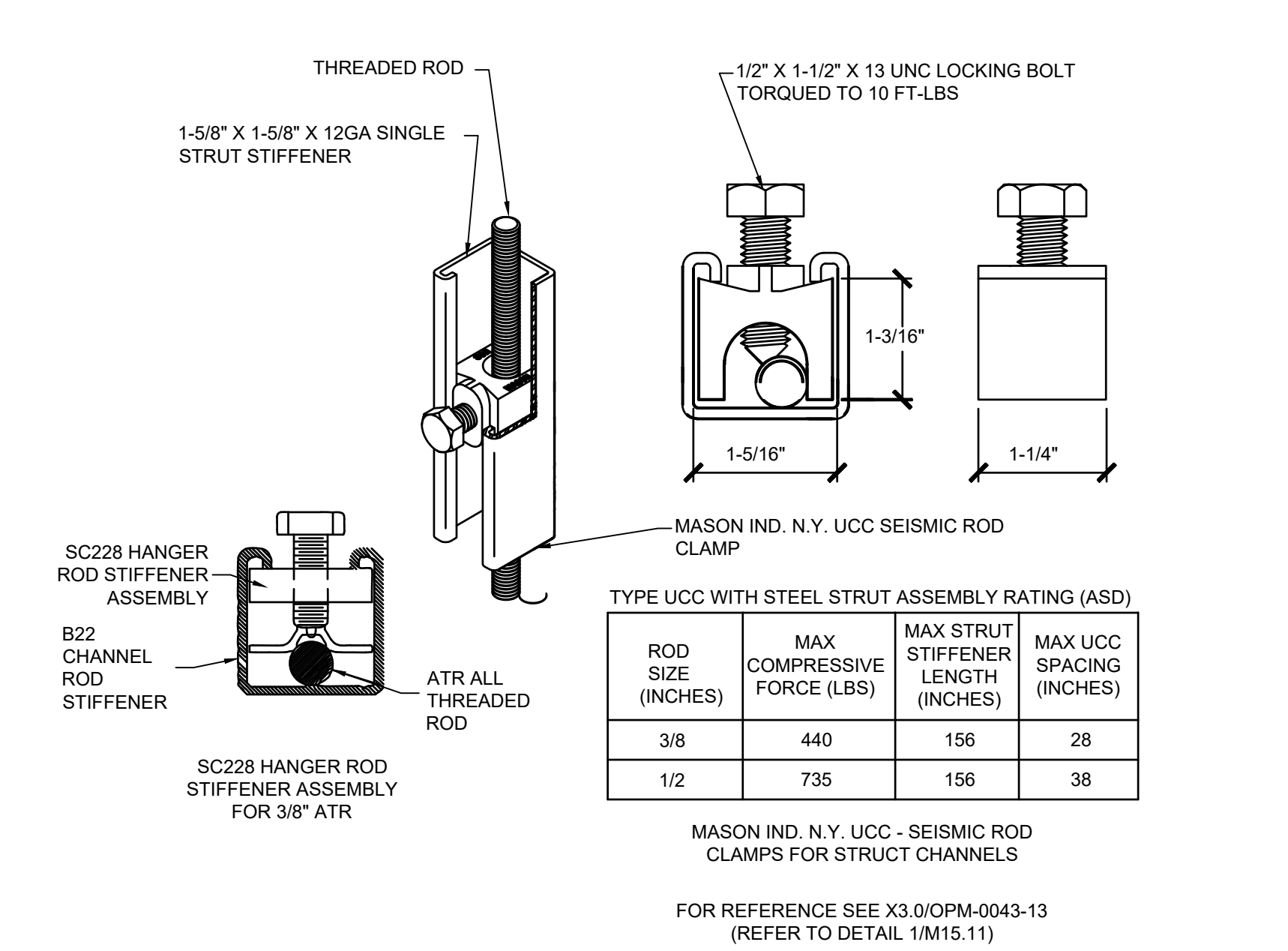
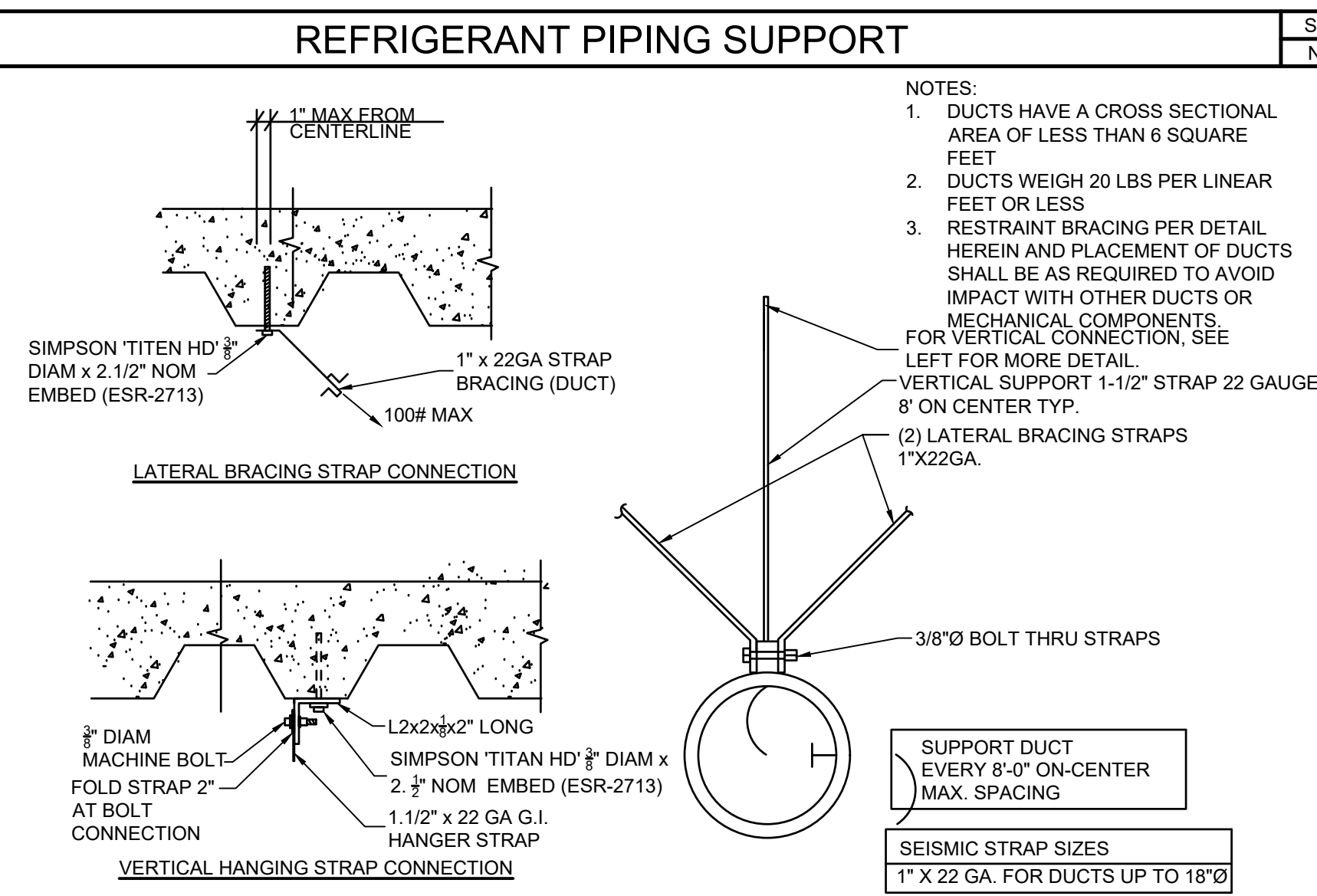
SHEET DESCRIPTION:
MECHANICAL
ROOF PLAN -
BUILDING H

SHEET NO:

M-1.3



- MATERIAL LIST
(UNISTRUT OR EQUAL PRODUCT)
- ① P1000T CHANNEL AT 6'-0" MIN.
- ② 4" WIDE 18 GA ALUMINUM SHEET ROLLED TO CONFORM TO PIPE INSULATION O.D.
- ③ P2057 PIPE CLAMP FOR 2" INSULATED PIPE.
P1117 FOR 2" PIPE; P2029 FOR 3/4" PIPE



No.	Rev. Date	Description
△	4/27/2026	BACKCHECK PH 1
△		
△		
△		
JOB NO:		501-26-0008
DATE:		3/23/2026
DRAWN:		ZF
CHECK:		HL
ARCHITECT:		
ENGINEER:		OED
DSA NUMBER: 03-125978		
CONSULTANT		

STATE OF CALIFORNIA
Mechanical Systems
CERTIFICATE OF COMPLIANCE
Project Name: Will Rogers Elementary School
Report Page: (Page 1 of 18)
Date Prepared: 2026-03-19T19:35:57-04:00

California Energy Commission
NRCC-MCH-E
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)2 for alterations.
01 Project Location (city) Lynwood
02 Climate Zone 8
03 Occupancy Types Within Project: Classroom Office

04 Total Conditioned Floor Area 28926
05 Total Unconditioned Floor Area 1484
06 # of Stories (Habitable Above Grade) 2

B. PROJECT SCOPE
This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, §170.2(b) or §141.0(b)2 and §180.2(b)2 for alterations.

02 Air System(s)
03 Wet System Components
04 Dry System Components

05 Heating Air System
06 Cooling Air System
07 Ventilation (including DOAS, ERV, HRV systems)
08 Mechanical Controls
09 Mechanical Controls (existing to remain, altered or new)

10 Water Economizer
11 Pumps
12 Cooling Towers
13 Chillers
14 Boilers
15 Air Economizer
16 Electric Resistance Heat
17 Fan Systems
18 Ductwork (existing to remain, altered or new)
19 Zonal Systems/ Terminal Boxes

Generated Date/Time: Documentation Software: Energy Code Ace
Report Version: 2025.0.000
Schema Version: rev 20250101

CA Building Energy Efficiency Standards - 2025 Nonresidential Compliance
Compliance ID: ECA-389165-0326-0002
Report Generated: 2026-03-19 16:36:07

STATE OF CALIFORNIA
Mechanical Systems
CERTIFICATE OF COMPLIANCE
Project Name: Will Rogers Elementary School
Report Page: (Page 4 of 18)
Date Prepared: 2026-03-19T19:35:57-04:00

California Energy Commission
NRCC-MCH-E

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)
Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01 02 03 04 05 06 07 08 09 10 11

H-11,12,13,14,19,20,21,22 Furnace + AC (split or packaged) AC, air cooled, single pkg + warm-air central furnace, gas-fired Yes 60 60 0 34.31 48.41 60 34.31

Footnotes:
1 Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per §140.4(a) and §170.2(c)1. Healthcare facilities are excepted.
2 It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.
3 If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.
4 Authority Having Jurisdiction may ask for load calculations used for compliance per §140.4(b) and §170.2(c).

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)										
01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Size Category (Btu/h)	Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Refrigerant Loop Heat Recovery	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	
FC/HP - 1,2,3,4,5,6,7,8,9,10	<65,000		HSPF2	Federal Minimum	7.5		SEER2	Federal/Minimum	15.96	
H-1,2,3,4,7,8,9,10,15,16,17,18,23,24	<65kBtuH cooling/ <225kBtuH heating		AFUE	0.8	0.81		SEER	Federal/Minimum	14	
H-5	<65kBtuH cooling/ <225kBtuH heating		AFUE	0.8	0.81		SEER	Federal/Minimum	14	
H-6	<65kBtuH cooling/ <225kBtuH heating		AFUE	0.8	0.81		SEER	Federal/Minimum	11.5	

Generated Date/Time: Documentation Software: Energy Code Ace
Report Version: 2025.0.000
Schema Version: rev 20250101

CA Building Energy Efficiency Standards - 2025 Nonresidential Compliance
Compliance ID: ECA-389165-0326-0002
Report Generated: 2026-03-19 16:36:07

STATE OF CALIFORNIA
Mechanical Systems
CERTIFICATE OF COMPLIANCE
Project Name: Will Rogers Elementary School
Report Page: (Page 7 of 18)
Date Prepared: 2026-03-19T19:35:57-04:00

California Energy Commission
NRCC-MCH-E

H. FAN SYSTEMS & AIR ECONOMIZERS										
System Name	H-5	Quantit y	1	Fan System Status	New	System Zoning	all other systems	Serving Dwelling Units?	Not Serving Dwelling Units	Fixed Temperatu re
01	02	03	04	05	06	07	08	09	10	11
Fan Name or Item Tag	Fan Type	Qty	Component	Airflow through Component (%)	Water Gauge (w.g.)	Component Allowance (watt/cfm)	Fan Allowance (watt/cfm) ¹	Design Electrical Input Power Method	Motor Nameplate Horsepower	Fan Electrical Input Power (kW)
H-5	Supply	1	Hydronic/DX cooling coil or heat pump coil	100		0.139	0.382	Manufacturer provided		0.98
			Gas heat	100		0.058				
			Economizer Return Damper	100		0.046				
			MERV 13-16 Filter upstream of thermal conditioning equipment	100		0.139				
Supply Fan Base Allowance (watt/cfm)			Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)			Fan System Allowance (kW) ¹		Fan System Electrical Input Power (kW)		0.98

Generated Date/Time: Documentation Software: Energy Code Ace
Report Version: 2025.0.000
Schema Version: rev 20250101

CA Building Energy Efficiency Standards - 2025 Nonresidential Compliance
Compliance ID: ECA-389165-0326-0002
Report Generated: 2026-03-19 16:36:07

STATE OF CALIFORNIA
Mechanical Systems
CERTIFICATE OF COMPLIANCE
Project Name: Will Rogers Elementary School
Report Page: (Page 2 of 18)
Date Prepared: 2026-03-19T19:35:57-04:00

California Energy Commission
NRCC-MCH-E

C. COMPLIANCE RESULTS										
Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, or the table indicated as not compliant for guidance.										
01	02	03	04	05	06	07	08	09		
System Summary \$110.1, \$110.2, \$140.4, \$170.2(c), \$180.2(a)2	AND	Pumps \$140.4(k), \$170.2(c)4I	AND	Fans/Econo mizers \$140.4(c), \$140.4(e), \$140.4(p), \$170.2(c)	AND	System Controls \$ 110.2, \$120.2, \$140.4(f), \$140.4(i), \$170.2(c)	AND	Ventilation \$120.1, \$160.2	AND	Terminal Box Controls \$140.4(d), \$170.2(c)4B
(See Table F)	(See Table G)	(See Table H)	(See Table I)	(See Table J)	(See Table K)	(See Table L)	(See Table M)			
Yes	AND		Yes	AND	Yes	AND	Yes	AND	Yes	COMPLIES
Mandatory Measures Compliance (See Table Q for Details)										

D. EXCEPTIONAL CONDITIONS
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)
Space Conditioning System Information

01 02 03 04 05 06

System Name Quantity System Serving System Status Space Type Utilizing Recovered Heat

FC/HP - 1,2,3,4,5,6,7,8,9,10 10 Single zone Alteration School or Classroom

Generated Date/Time: Documentation Software: Energy Code Ace
Report Version: 2025.0.000
Schema Version: rev 20250101

CA Building Energy Efficiency Standards - 2025 Nonresidential Compliance
Compliance ID: ECA-389165-0326-0002
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STATE OF CALIFORNIA
Mechanical Systems
CERTIFICATE OF COMPLIANCE
Project Name: Will Rogers Elementary School
Report Page: (Page 5 of 18)
Date Prepared: 2026-03-19T19:35:57-04:00

California Energy Commission
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F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)
Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)

01 02 03 04 05 06 07 08 09 10

Name or Item Tag Size Category (Btu/h) Rating Condition (°F) Efficiency Unit Minimum Efficiency Required per Tables 110.2 / Title 20 Design Efficiency Refrigerant Loop Heat Recovery Efficiency Unit Minimum Efficiency Required per Tables 110.2 / Title 20 Design Efficiency

H-11,12,13,14,19,20,21,22 <65kBtuH cooling/ <225kBtuH heating AFUE 0.8 0.81 SEER Federal/Minimum 14

Mechanical Heat Recovery §140.4(s)

01 02 03 04 05 06 07

Name or Item Tag Coincident Peak Cooling Load of All High Load Spaces (kBtu/h) Design Capacity of All Mechanical Cooling Systems¹ (kBtu/h) Design Capacity of All Service Water Heating Systems² (kBtu/h) Design Capacity for all space heating systems (kBtu/h) Simultaneous Mechanical Heat Recovery

Footnotes:
1 Excluding systems expected to operate less than 5 hours per week.
2 If the design includes capacity for future cooling systems, then assume 20% of future systems serve high load spaces.

G. PUMPS
This section does not apply to this project.

Generated Date/Time: Documentation Software: Energy Code Ace
Report Version: 2025.0.000
Schema Version: rev 20250101

CA Building Energy Efficiency Standards - 2025 Nonresidential Compliance
Compliance ID: ECA-389165-0326-0002
Report Generated: 2026-03-19 16:36:07

STATE OF CALIFORNIA
Mechanical Systems
CERTIFICATE OF COMPLIANCE
Project Name: Will Rogers Elementary School
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California Energy Commission
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H. FAN SYSTEMS & AIR ECONOMIZERS										
System Name	H-6	Quantit y	1	Fan System Status	New	System Zoning	all other systems	Serving Dwelling Units?	Not Serving Dwelling Units	Fixed Temperatu re
01	02	03	04	05	06	07	08	09	10	11
Fan Name or Item Tag	Fan Type	Qty	Component	Airflow through Component (%)	Water Gauge (w.g.)	Component Allowance (watt/cfm)	Fan Allowance (watt/cfm) ¹	Design Electrical Input Power Method	Motor Nameplate Horsepower	Fan Electrical Input Power (kW)
H-6	Supply	1	Hydronic/DX cooling coil or heat pump coil	100		0.139	0.382	Manufacturer provided		0.41
			Gas heat	100		0.058				
			Economizer Return Damper	100		0.046				
			MERV 13-16 Filter upstream of thermal conditioning equipment	100		0.139				
Supply Fan Base Allowance (watt/cfm)			Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)			Fan System Allowance (kW) ¹		Fan System Electrical Input Power (kW)		0.41

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F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)
Space Conditioning System Information

01 02 03 04 05 06

System Name Quantity System Serving System Status Space Type Utilizing Recovered Heat

H-1,2,3,4,7,8,9,10,15,16,17,18,23,24 14 Single zone Alteration School or Classroom

H-5 1 Single zone Alteration School or Classroom

H-6 1 Single zone Alteration School or Classroom

H-11,12,13,14,19,20,21,22 8 Single zone Alteration School or Classroom

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)										
01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2, §140.4(a)2 and 170.2(c)3aII	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available ¹ §140.4(a) and §170.2(c)1	Heating Output ^{2,3}		Cooling Output ^{2,3}		Load Calculations ^{3,4}		
				Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
FC/HP - 1,2,3,4,5,6,7,8,9,10	Unitary Heat Pumps	Air-cooled, split (1phase)	Yes	24	24.2	0	18	24	24	18
H-1,2,3,4,7,8,9,10,15,16,17,18,23,24	Furnace + AC (split or packaged)	AC, air cooled, single pkg + warm-air central furnace, gas-fired	Yes	60	60	0	44.73	59.31	60	44.73
H-5	Furnace + AC (split or packaged)	AC, air cooled, single pkg + warm-air central furnace, gas-fired	Yes	67	67	0	52	71.15	67	52
H-6	Furnace + AC (split or packaged)	AC, air cooled, single pkg + warm-air central furnace, gas-fired	Yes	60	60	0	25.39	35.13	60	25.39

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H. FAN SYSTEMS & AIR ECONOMIZERS
This table is used to demonstrate compliance with prescriptive requirements found in §140.4(c), §140.4(e), §140.4(m), §170.2(c)3, and §170.2(c)4A for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H.

01 02 03 04 05 06 07 08 09 10 11

Fan Name or Item Tag Fan Type Qty Component Airflow through Component (%) Water Gauge (w.g.) Component Allowance (watt/cfm) Fan System Allowance (watt/cfm)¹ Design Electrical Input Power Method Motor Nameplate Horsepower Fan Electrical Input Power (kW)

H-1,2,3,4,7,8,9,10,15,16,17,18,23,24 Supply 1 Hydronic/DX cooling coil or heat pump coil 100 0.058 0.382 Manufacturer provided 1.06

Supply Fan Base Allowance (watt/cfm) 0.232 Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm) 0 Fan System Allowance (kW)¹ 1.22 Fan System Electrical Input Power (kW) 1.06

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H. FAN SYSTEMS & AIR ECONOMIZERS										
System Name	H-11,12,13,14,19,20,21,22	Quantit y	8	Fan System Status	New	System Zoning	all other systems	Serving Dwelling Units?	Not Serving Dwelling Units	Fixed Temperatu re
01	02	03	04	05	06	07	08	09	10	11
Fan Name or Item Tag	Fan Type	Qty	Component	Airflow through Component (%)	Water Gauge (w.g.)	Component Allowance (watt/cfm)	Fan Allowance (watt/cfm) ¹	Design Electrical Input Power Method	Motor Nameplate Horsepower	Fan Electrical Input Power (kW)
H-11,12,13,14,19,20,21,22	Supply	1	Hydronic/DX cooling coil or heat pump coil	100		0.139	0.382	Manufacturer provided		0.76
			Economizer Return Damper	100		0.046				
			MERV 13-16 Filter upstream of thermal conditioning equipment	100		0.139				
			Gas heat	100		0.058				
Supply Fan Base Allowance (watt/cfm)			Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)			Fan System Allowance (kW) ¹		Fan System Electrical Input Power (kW)		0.76

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AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125978 INC.
REVIEWED FOR
SS ☒ FLS ☒ ACS ☐
DATE: 05/26/2026



STAMP



PROJECT NAME:

WILL ROGERS ELEMENTARY SCHOOL
LYNWOOD UNIFIED SCHOOL DISTRICT
11220 DUNCAN AVENUE
LYNWOOD, CALIFORNIA, 90262

No.	Rev.	Date	Description
Δ	4/27/2026		BACKCHECK PH 1
Δ			
Δ			
Δ			
JOB NO: 501-26-0008			
DATE: 3/23/2026			
DRAWN: ZF			
CHECK: HL			
ARCHITECT:			
ENGINEER: OED			
DSA NUMBER: 03-125978			
CONSULTANT			

STAMP

SHEET DESCRIPTION:
MECHANICAL
TITLE 24
COMPLIANCE

SHEET NO:

M-6.1

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Date Prepared:

H. FAN SYSTEMS & AIR ECONOMIZERS															
System Name	HP/FC-1,2,3,4,5,6,7,8,9,10	Quantity	10	Fan System Status	New	System Zoning	all other systems	Serving Dwelling Units?	Not Serving Dwelling Units	Fan System Airflow (cfm)	800	Site Elevation	100	Economizer	NA: <=33 kbtu/h cooling
01	02	03	04			05		06	07	08	09			10	11
Fan Name or Item Tag	Fan Type	Qty	Component			Airflow through Component (%)	Water Gauge (w.g.)	Allowance		Design					
								Component Allowance (watt/cfm)	Fan Allowance (watt/cfm) ³	Design Electrical Input Power Method			Motor Nameplate Horsepower	Fan Electrical input Power (kW)	
HP/FC-1,2,3,4,5,6,7,8,9,10	Supply	1	Hydronic/DX cooling coil or heat pump coil			100		0.139	0.278	Manufacturer provided				0.25	
			MERV 13-16 Filter upstream of thermal conditioning equipment			100		0.139							
Supply Fan Base Allowance (watt/cfm)			Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)					Fan System Allowance (kW) ¹			Fan System Electrical Input Power (kW)			0.25	

¹ FOOTNOTES: Fans serving spaces with design background noise goals below NC35
² Low-turndown single-zone VAV fan system must be capable of and configured to reduce airflow to 50 percent of design airflow and use no more than 30 percent of the design wattage at that airflow. No more than 10 percent of the design load served by the equipment shall have fixed loads.
³ Fan system allowance includes fan system base allowance.
⁴ Filter pressure loss can only be counted once per fan system.
⁵ Complex Fan System means a fan system that combines a single cabinet fan system with other supply fans, exhaust fans, or both.
⁶ Computer room economizers must meet requirements of §140.9(a) and will be documented on the NRCC-PRC-E document..
⁷ Indoor fans meeting the requirements of 140.4(a)3D shall turn off when there is no demand for heating or cooling in the space. At 60% air flow the power draw shall be no more than 51% of the fan power at full fan speed and at 33% airflow the power draw shall be no more than 12% of the fan power at full fan speed.

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I. SYSTEM CONTROLS											
This table is used to demonstrate compliance with mandatory controls in §110.2 and §120.2 and prescriptive controls in §140.4(f) and (n), §170.2(c)4D §170.2(c)4L or requirements in §141.0(b)2E §180.2(b)2 for altered space conditioning systems.											
01	02	03	04	05	06	07	08	09	10	11	
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats §110.2(b) & (c)¹, §120.2(a) or §160.3(a)2A or §160.3(b)8 or §141.0(b)2E & §180.2(b)2	Shut-Off Controls §120.2(a) & §160.3(a)2D	Isolation Zone Controls §120.2(a) & §160.3(a)2D	Demand Response §110.12 §120.2(b) & §160.3(a)2B	Supply Air Temp. Reset §140.4(f) & §170.2(c)4D	Window Interlocks per §140.4(n) & §170.2(c)4D	Direct Digital Control (DDC) per §120.2	Heat Pump Defrost per §160.3(b)7	
Package Units (H)	Single zone	<= 25,000 ft²	Setback < DR Tstat per §110.12	Auto Timer Switch	NA: Single Zone	DR Tstat per §110.12	NA: Single Zone	NA: Alteration Project	NA: Single Zone	NA: No Heat Pump	
Split System (FC/HP)	Single zone	<= 25,000 ft²	Setback < DR Tstat per §110.12	Auto Timer Switch	NA: Single Zone	DR Tstat per §110.12	NA: Single Zone	NA: Alteration Project	NA: Single Zone	NA Heat Pump not serving dwelling units	

¹ FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.

J. VENTILATION AND INDOOR AIR QUALITY

This table is used to demonstrate compliance with mandatory ventilation requirements in §120.1 § 120.2(e)3B § 140.4(p) and § 140.4(q) for all nonresidential and hotel/motel and c24refnolnk/160.2, §160.3(a)3D, §170.2(a)4N, 170.2(a)4O for high-rise residential occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflow may be shown on the plans or the calculations can be presented in a spreadsheet.

01	☐	Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.
02	☒	Check this box if the project including Nonresidential, Hotel/Motel Spaces or Multifamily Common Use Spaces
03	☐	Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per §120.1(c)2.

Nonresidential and Hotel/ Motel Multifamily Common Use Ventilation Systems

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N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2022-building-energy-efficiency-4

Form/Title

NRCC-MCH-E - Must be submitted for all buildings

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE	
Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2022-building-energy-efficiency-4	
Form/Title	Systems/Spaces To Be Field Verified
NRCA-MCH-02-A - Outdoor Air	H-1,2,3,4,7,8,9,10,15,16,17,18,23,24; HP/FC-1,2,3,4,5,6,7,8,9,10 Package Units (H): Split System (FC/HP)
NRCA-MCH-03-A - HVAC and Heat Pumps - Const Volume Single Zone HVAC	
NRCA-MCH-05-A - Air Economizer, DOAS, HRV, & ERV Controls	H-1,2,3,4,7,8,9,10,15,16,17,18,23,24; H-5; H-6; H-11,12,13,14,19,20,21,22
NRCA-MCH-06-A Demand Control Ventilation Systems	Classroom; Office
NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance	FC/HP - 1,2,3,4,5,6,7,8,9,10; H-1,2,3,4,7,8,9,10,15,16,17,18,23,24; H-5; H-6; H-11,12,13,14,19,20,21,22

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H. EXHAUST AIR HEAT RECOVERY 140.4(q), 170.2(c)4O											
01	02	03	04	05	06	07	08	09	10	11	
Fan System Name	Qty	Hours of Operation per Year	Design Supply Airflow Rate	Outdoor Airflow	% Outdoor Air at Full Design Airflow	Exemptions to Exhaust Air Heat Recovery Requirement per §140.4(q) & §170.2(c)4O	Exhaust Air Heat Recovery §140.4(q) & §170.2(c)4O	Type Of Heat Recovery Rating	Required Recovery Ratio	Energy Recovery Bypass	
H-1,2,3,4,7,8,9,10,15,16,17,18,23,24			2,000	400	20	NA: Total airflow exhausted and relieved within 20ft <75% per Exception 6 to 140.4(q)					
H-5			2,400	400	17	NA: Total airflow exhausted and relieved within 20ft <75% per Exception 6 to 140.4(q)					
H-6			1,200	400	33	NA: Total airflow exhausted and relieved within 20ft <75% per Exception 6 to 140.4(q)					

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J. VENTILATION AND INDOOR AIR QUALITY											
04		05			06			07			
System Name	H-1,2,3,4,7,8,9,10,15,16,17,18,23,24	System Design OA CFM Airflow ¹		400	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) §141.0(b)2 and §160.2(c)21 ²			
08	09	10	11	12	13	14	15	Provided			
Space Name or Item Tag	Mechanical Ventilation Required per §120.1(c)3 ³ & §160.2(c)3					Exh. Vent per §120.1(c)4 & §160.2(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 ³ §160.2(c)5D §160.2(c)5E §160.2(c)5D			
	Occupancy Type ⁴	Conditioned Floor Area (ft ²)	# of Shower heads/ toilets	# of people ⁵	Required Min OA CFM	Required Min CFM	Provided per Design CFM				
Classroom	Classroom (ages 5-18)	1035		25	388.12			DCV		Provided per §120.1(d)4	
17	Total System Required Min OA CFM				388.12	18	Ventilation for this System Complies?		Yes	Yes	
04		05			06			07			
System Name	HP/FC-1,2,3,4,5,6,7,8,9,10	System Design OA CFM Airflow ¹		60	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) §141.0(b)2 and §160.2(c)21 ²			
08	09	10	11	12	13	14	15	Provided			
Space Name or Item Tag	Mechanical Ventilation Required per §120.1(c)3 ³ & §160.2(c)3					Exh. Vent per §120.1(c)4 & §160.2(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 ³ §160.2(c)5D §160.2(c)5E §160.2(c)5D			
	Occupancy Type ⁴	Conditioned Floor Area (ft ²)	# of Shower heads/ toilets	# of people ⁵	Required Min OA CFM	Required Min CFM	Provided per Design CFM				
Office	Office space	360		1	54			DCV		Provided per §120.1(d)4	
17	Total System Required Min OA CFM				54	18	Ventilation for this System Complies?		Yes	Yes	

¹ FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system

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P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01	02
Compliance with Mandatory Measures documented through MCH	Plan sheet or construction document location
Mandatory Measures Note Block	
03	04
Mandatory Measure	Plan sheet or construction document location
Heating Equipment Efficiency per §110.1, Title 20, and federal minimums	MO.2 Mechanical Schedules
Cooling Equipment Efficiency per §110.1, Title 20, and federal minimums	MO.2 Mechanical Schedules
Furnace Standby Loss Control per §110.2(d)	MO.2 Mechanical Schedules
Duct insulation per §120.4	M-0.1
Heat Pump with Supplemental electric Resistance Heater Controls per §110.2(b)	N/A
The air duct and plenum system is designed per §120.4(a)-(f)	M-0.1 Mechanical General Notes & Legend
Kitchen range hoods shall be rated for sound in accordance with Section 7.2 of ASHRAE 62.2	N/A

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H. EXHAUST AIR HEAT RECOVERY 140.4(q), 170.2(c)4O											
H-11,12,13,14,19,20,21,22				1,600	400	25	NA: Total airflow exhausted and relieved within 20ft <75% per Exception 6 to 140.4(q)				
HP/FC-1,2,3,4,5,6,7,8,9,10				800	60	8	NA: Total airflow exhausted and relieved within 20ft <75% per Exception 6 to 140.4(q)				
Fan Energy Index (FEI)											
01				02				03			
Name or Item Tag				FEI Exception				FEI			
H-1,2,3,4,7,8,9,10,15,16,17,18,23,24				Embedded Fan <5HP or <4.1kW							
H-5				Embedded Fan <5HP or <4.1kW							
H-6				Embedded Fan <5HP or <4.1kW							
H-11,12,13,14,19,20,21,22				Embedded Fan <5HP or <4.1kW							
HP/FC-1,2,3,4,5,6,7,8,9,10				Embedded Fan <5HP or <4.1kW							

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J. VENTILATION AND INDOOR AIR QUALITY

² Air filtration requirements apply to the following three system types per §120.1(c)1A: space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.
³ Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.
⁴ See Standards Tables 120.1-A and 120.1-B.
⁵ For lecture halls with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code.
⁶ §120.2(e)3 requires systems serving rooms that are required by §130.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices 250ft² or smaller, multipurpose rooms less than 1,000 ft², classrooms, conference rooms, restrooms, aisles and

GENERAL NOTES

1. 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 TRACTIONAL HORSEPOWER MOTORS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE MECHANICAL AND PLUMBING DRAWINGS FOR DUCTS, LINES AND EQUIPMENT.
2. ALL COMMUNICATIONS WORK SHALL BE COORDINATED WITH THE COMMUNICATION SYSTEMS EQUIPMENT MANUFACTURER AND THE SCHOOL DISTRICT MAINTENANCE DEPARTMENT PRIOR TO ROUGH-IN AND INSTALLATION OF ANY AND ALL COMMUNICATION SYSTEM DEVICES AND RELATED CONDUIT AND WIRE.
3. THE CONTRACTOR SHALL SECURE AND PAY FOR PERMITS AND FEES NECESSARY FOR ERECTION AND COMPLETION OF ELECTRICAL WORK, INCLUDING ALL CHARGES BY THE LOCAL GOVERNMENT AGENCIES AND THE UTILITY COMPANIES.
4. UNLESS OTHERWISE NOTED, MOUNTING HEIGHTS INDICATED ON ELECTRICAL OUTLETS ARE FROM FINISHED FLOOR TO CENTER OF OUTLETS.
5. NO CONDUIT SHALL BE RUN HORIZONTALLY IN CONCRETE FLOOR SLABS.
6. ALL FINAL CONNECTIONS TO CONTRACTOR-FURNISHED EQUIPMENT SHALL BE MADE BY THIS CONTRACTOR.
7. MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2025 CBC SECTIONS 1611A.1.10 THROUGH 1611A.1.26 AND ASCE 1-22 CHAPTERS 19, 26 AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

- A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL. RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 1-16 SECTION 19.9 AS DEFINED IN ASCE 1-22 SECTIONS 19.6.5, 19.6.6, 19.6.7, 19.6.8 AND 2025 CBC, SECTIONS 1611A.1.24, 1611A.1.25, AND 1611A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACINGS AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2019 CBC, OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEM (E).

MP□MD□PP□E□ - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECTS SPECIFIC NOTES AND DETAILS.

MP□MD□PP□E□ - OPTION 2: SHALL COMPLY WITH HCAI PRE-APPROVAL (OPM.9) &

8. SHUT DOWN OF EXISTING ELECTRICAL SYSTEMS SERVING THE REST OF THE SCHOOL WILL NOT BE ALLOWED UNLESS SCHEDULED WITH THE C.M. AND THE DISTRICT.
9. THIS CONTRACTOR SHALL COORDINATE ALL LINE AND LOW VOLTAGE COMPONENTS AND WIRING TYPES TO MATCH EXISTING SYSTEMS, WITH THE SCHOOL DISTRICT PRIOR TO BID AND INCLUDE ALL COSTS FOR A COMPLETE OPERABLE SYSTEM EXPANSION.
10. ALL EXPOSED CONDUIT SHALL BE PAINTED TO MATCH THE EXISTING SURFACE IT IS ATTACHED TO. COLOR SHALL BE SELECTED BY THE OWNER.
11. 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 WILL BE INSTALLED. THE CONTRACTOR SHALL INSTALL A LIGHT FIXTURE WHEREVER A FIXTURE OUTLET IS SHOWN ON DRAWINGS.
12. IDENTIFICATION NAME PLATES FOR PANELS AND SWITCHBOARDS/DISTRIBUTION PANEL FEEDER CIRCUIT BREAKERS SHALL MATCH THE NONSIGNEDATURE PROVIDED BY THE OWNER AT THE END OF THE CONTRACT.
13. ALL EXTERIOR MOUNTED EQUIPMENT SHALL BE WEATHERPROOF AND PROVIDED IN A WEATHERPROOF ENCLOSURE.
14. 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 FOR FINAL CONNECTIONS TO LIGHT FIXTURES, MOTORS, VIBRATING ELECTRICAL EQUIPMENT AND HORIZONTAL RUNS IN NOOD STUD WALLS.
- 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.
15. ALL NEW WIRING SHALL BE COPPER.
16. PROVIDE THE OWNER AND THIS ENGINEER WITH ONE SET OF ELECTRICAL "AS-BUILTS" AT THE COMPLETION OF JOB.
17. 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.
18. ALL OUTLET LOCATIONS SHALL BE COORDINATED WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION.
19. ALL WORK SHOWN ON THESE DRAWINGS SHALL BE NEW UNLESS OTHERWISE NOTED.
20. ELECTRICAL CONTRACTOR SHALL PERFORM ALL WORK IN STRICT ACCORDANCE WITH GOVERNING CODES.
21. ALL EQUIPMENT SHALL BE NEW AND BEAR A "UL" LABEL - U.O.N..
22. COMPLETE ELECTRICAL INSTALLATION SHALL BE GUARANTEED IN WRITING FOR A PERIOD OF (1) YEAR - U.O.N..
23. ELECTRICAL CONTRACTOR SHALL VISIT SITE PRIOR TO BID DATE, TO VERIFY ALL EXISTING CONDITIONS TO BE ENCOUNTERED IN THE INSTALLATION OF ALL NEW EQUIPMENT, FIXTURES DEVICES, FEEDERS, ETC.. EXACT INSTALLATION METHOD AND REQUIREMENTS SHALL BE VERIFIED AND DETERMINED PRIOR TO BID DATE. CONTRACTORS SHALL IMMEDIATELY NOTIFY THIS ENGINEER OF ANY REQUIRED MODIFICATIONS WHICH ARE NOT SHOWN ON THESE DRAWINGS. SUBMITTAL OF BID INDICATES CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED.
24. ALL EQUIPMENT ELECTRICAL CHARACTERISTICS, LOCATIONS, AND CONNECTION REQUIREMENTS SHALL BE VERIFIED PRIOR TO ANY ROUGH-IN WORK.
25. 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).

26. IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO DO ALL CORING, CUTTING, PATCHING AND FINISHING 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.
27. THE CONTRACTOR SHALL STRATEGICALLY LOCATE JUNCTION BOXES AND PULL BOXES, ETC., IN ACCESSIBLE CEILING SPACES. PROVIDE ACCESS PANELS WHERE JUNCTION/PULL BOXES ARE LOCATED IN INACCESSIBLE CEILING SPACES. COORDINATE LOCATION OF REQUIRED ACCESS PANELS PRIOR TO ROUGH-IN.
28. 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.
29. UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBER SHALL BE CUT, DRILLED, NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DISTRICT STRUCTURAL ENGINEER FROM THE DIVISION OF THE STATE ARCHITECT.

DEMOLITION NOTES

1. ALL ELECTRICAL EQUIPMENT, OUTLETS, DEVICES, ETC., THAT ARE MARKED FOR DELETION SHALL BE REMOVED COMPLETELY, INCLUDING CONDUIT AND WIRES BACK TO THE LAST REMAINING FIXTURE, OUTLET, DEVICE, SERVING PANEL, ETC.
2. WHERE EXISTING OUTLET/DEVICES TO REMAIN ARE FED BY OUTLETS BEING REMOVED BY WORK UNDER THIS CONTRACT, THE CONTRACTOR SHALL ROUTE NEW CONDUIT, WIRE, ETC., AS REQUIRED TO MAINTAIN THE SUBJECT OUTLETS IN OPERATION.
3. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO REMOVAL OF EXISTING ELECTRICAL/LOW VOLTAGE EQUIPMENT AND TURN OVER REMOVED EQUIPMENT THAT THE OWNER REQUESTS. IN AS-FOUND CONDITION, EQUIPMENT THAT IS TO BE TURNED OVER SHALL BE BOXED AND TAGGED TO IDENTIFY THE SPECIFIC EQUIPMENT.
4. ALL EXISTING CONDUITS WITHIN PROJECT AREA FOR LIGHTING FIXTURES, RECEPTACLES, OTHER BRANCH CIRCUITS LOADS AND COMMUNICATIONS/SIGNAL SYSTEMS, WHETHER SHOWN ON PLANS OR NOT, SHALL BE A PART OF THIS CONTRACT.
5. IN GENERAL, THE DEMOLITION PLAN SHOWS EXISTING EQUIPMENT THAT IS TO REMAIN, BE REMOVED OR REMOVED AND RELOCATED. HOWEVER, ELECTRICAL EQUIPMENT WHETHER SHOWN ON THIS DRAWING OR NOT, THAT IS LOCATED IN A REMOVED WALL OR CEILING, SHALL BE REMOVED UNLESS OTHERWISE NOTED.
7. WHERE EXISTING ROOF MOUNTED EQUIPMENT IS REMOVED BY WORK UNDER THIS CONTRACT, THE EXISTING CONDUIT FEEDS UP THROUGH THE ROOF SHALL BE REMOVED FROM THAT POINT BACK TO THE SERVING PANEL OR LAST EQUIPMENT REMAINING IN SERVICE. WHERE THE SUBJECT CONDUIT FEEDS EQUIPMENT REMAINING IN OPERATION THE CONTRACTOR SHALL REROUTE THE SUBJECT CONDUIT AND CONDUCTORS AS REQUIRED TO MAINTAIN OPERATION OF SUCH EQUIPMENT. THE CONTRACTOR SHALL PATCH, REPAIR AND REFRESH ALL WALL AND ROOF PENETRATIONS AFFECTED BY THE REMOVAL OF THE CONDUIT.
8. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO MAINTAIN CONTINUITY OF ALL ELECTRICAL AND COMMUNICATION SYSTEMS, EQUIPMENT, ETC., REMAINING IN OPERATION. MAINTAINING CONTINUITY SHALL CONSIST OF RE-ROUTING CONDUIT, WIRE, ETC., AS REQUIRED TO MAINTAIN THE SUBJECT SERVICES IN OPERATION.
9. EXISTING CIRCUITS THAT ARE REMOVED AND NOT RE-USED SHALL BE IDENTIFIED ON THE PANEL SCHEDULE AS "SPARE".
10. REFER TO GENERAL NOTES, THIS SHEET, FOR ADDITIONAL REQUIREMENTS.
11. UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBER SHALL BE CUT, DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DISTRICT STRUCTURAL ENGINEER FROM THE DIVISION OF THE STATE ARCHITECT.

REFERENCES & ABBREVIATIONS

	DETAIL REFERENCE	MGB	MAIN CIRCUIT BREAKER
	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	GRD	GROUND
M.L.O.	MAIN LUGS ONLY	V.L.	VERIFY LOCATION
E or (E)	EXISTING TO REMAIN	A.C.	ABOVE COUNTER
E.Q.	EQUAL	N.L.	NIGHT LIGHT

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:

2025 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR

2025 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR

2025 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR

2025 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR

2025 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR

2025 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 CCR

2025 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR

2025 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR

2025 CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN), PART 11, TITLE 24 CCR

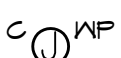
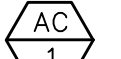
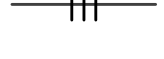
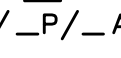
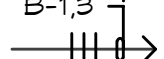
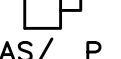
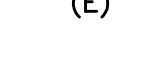
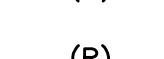
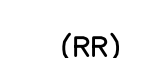
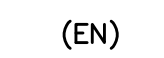
2025 CALIFORNIA REFERENCED STANDARDS CODE, PART 12 TITLE 24 CCR

TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

APPLICABLE STANDARDS

FOR A LIST OF APPLICABLE STANDARDS, INCLUDING CALIFORNIA AMENDMENTS TO NFPA STANDARDS, REFER TO CBC CHAPTER 35 AND CFC CHAPTER 80.

SYMBOL LIST

	CONDUIT RUN, CONCEALED IN CEILINGS, WALLS OR UNDER FLOOR 3/4" MIN. IN CEILINGS OR WALLS, 1/2" MINIMUM FOR UNDERGROUND / UNDER FLOOR.		2 POLE MOTOR RATED SWITCH.
	CONDUIT TURNED DOWN.		JUNCTION BOX. WP = WEATHER PROOF NEMA 3R, C = CEILING TYPE.
	CONDUIT TURNED UP.		DUPLEX RECEPTACLE WITH GROUND FAULT INTERRUPTER (20 AMP, 120V, 3W) WALL PLATE TO MATCH DEVICE MTD. AT 18". RECEPTACLE SHALL BE PROVIDED COMPLETE WITH WEATHERPROOF COVERS U.L. LISTED FOR WET LOCATIONS WHEN IN USE.
	CONDUIT RUN UNDERGROUND, 1/2" MINIMUM. PROVIDE SIZE PER PLAN.		HVAC EQUIPMENT DESIGNATION. SEE MECHANICAL PLANS.
	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.		FUSED DISCONNECT SWITCH, HEAVY DUTY TYPE WITH REQUIRED QUANTITY OF DUAL ELEMENT TIME DELAY FUSES, NEMA 3R FOR OUTDOOR USE, AS-SWITCH AMPERE RATING. F=NUMBER OF POLES. AF=FUSE AMPERE RATING.
	CONDUIT HOME RUN TO PANELBOARD. LETTER AND NUMERALS INDICATES ELECTRICAL PANEL AND CIRCUIT NUMBER.		NON-FUSED DISCONNECT SWITCH, HEAVY DUTY TYPE. AS-SWITCH AMPERE RATING. F=NUMBER OF POLES.
	WEATHERPROOF.		NOTE IDENTIFICATION SYMBOL.
	BRANCH CIRCUIT PANEL, MOUNTING AS SHOWN ON SCHEDULES.		DETAIL IDENTIFICATION SYMBOL.
	MOLDED CASE CIRCUIT BREAKER (SINGLE LINE DIAGRAM).		THERMOSTAT, MOUNTED AT 48" A.F.F. TO TOP OF BOX. SEE MECHANICAL FOR EXACT REQUIREMENTS.
	CIRCUIT BREAKER AMPERE TRIP RATING (SINGLE LINE DIAGRAM).		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.
	EXISTING CONDUIT AND CONDUCTORS TO REMAIN IN PLACE.		SINGLE POLE SWITCH. LETTER AT BOTTOM INDICATES OUTLETS CONTROLLED. MOUNTED AT 48" TO TOP OF THE BOX. STAINLESS STEEL WALL PLATE. SUPERSCRIPT DENOTES: P - PILOT LIGHT 2 - DOUBLE POLE K - KEY OPERATED 3 - THREE WAY T - TRIPPER 4 - FOUR WAY
	EXISTING CONDUIT TO BE RE-USED, CONDUCTORS TO BE DISCONNECTED AND REMOVED.		SINGLE POLE MANUAL MOTOR STARTER WITH THERMAL OVERLOAD.
	EXISTING CONDUIT WITH NEW CONDUCTORS.		
	EXISTING CONDUIT TO BE ABANDONED IN PLACE. CONDUCTORS TO BE DISCONNECTED AND REMOVED.		
	EXISTING CONDUIT AND CONDUCTORS TO BE DISCONNECTED AND REMOVED.		
	EXISTING EQUIPMENT TO REMAIN IN OPERATION.		
	NEW EQUIPMENT.		
	EXISTING EQUIPMENT TO BE DISCONNECTED AND REMOVED, REMOVE ALL EXISTING CONDUIT AND FEEDERS FROM EQUIPMENT MARKED TO BE REMOVED ALL THE WAY BACK TO THE SERVING PANEL UNLESS OTHERWISE NOTED.		
	EXISTING EQUIPMENT TO BE REMOVED AND RELOCATED.		
	EXISTING EQUIPMENT IN NEW LOCATION.		

AGENCY APPROVAL

IDENTIFICATION STAMP

DIV. OF THE STATE ARCHITECT

APP: 03-125978 INC:

REVIEWED FOR

SS ☒ FLS ☒ ACS ☐

DATE: 05/26/2026



Consulting Engineers
5200 E. La Palma Ave
Anaheim, CA 92807
Telephone (714) 693-2277

STAMP

PROJECT NAME:

WILL ROGERS ELEMENTARY SCHOOL
LYNWOOD UNIFIED SCHOOL DISTRICT
11220 DUNCAN AVENUE
LYNWOOD, CALIFORNIA, 90262

No.	Rev.	Date	Description
		4/27/2026	BACKCHECK PH 1
			
			
			
JOB NO:	501-26-0008		
DATE:	3/23/2026		
DRAWN:	LS		
CHECK:	LMF		
ARCHITECT:			
ENGINEER:	OED		
DSA NUMBER:	03-125978		
CONSULTANT			

STAMP



SHEET DESCRIPTION:

GENERAL
NOTES AND
SYMBOL
LIST

SHEET NO:

E-0.1



Consulting Engineers
5200 E. La Palma Ave
Anaheim, CA 92807
Telephone (714) 693-2277

STAMP



PROJECT NAME:

WILL ROGERS ELEMENTARY SCHOOL
LYNWOOD UNIFIED SCHOOL DISTRICT
11220 DUNCAN AVENUE
LYNWOOD, CALIFORNIA, 90262

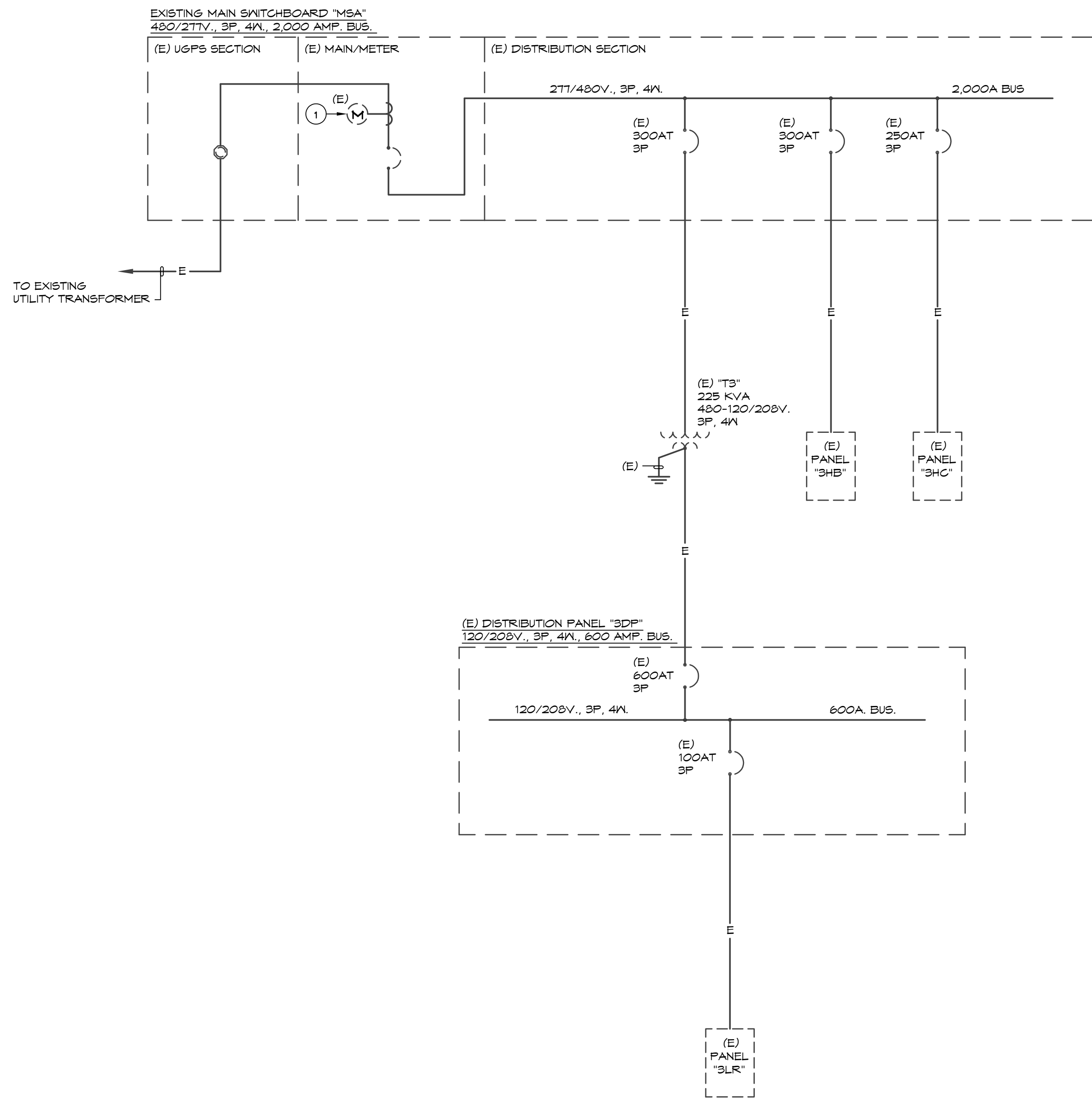
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△	6/15/2026	ADDENDUM 1	
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△			
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DATE:			3/23/2026
DRAWN:			LS
CHECK:			LMF
ARCHITECT:			
ENGINEER:			OED
DSA NUMBER:			03-125978
CONSULTANT			

STAMP



SHEET DESCRIPTION:
SINGLE LINE
DIAGRAM
AND PANEL
SCHEDULES

SHEET NO:
E-0.2



CONSTRUCTION NOTES:

- REFER TO GENERAL NOTES, DRAWING E-0.1, FOR ADDITIONAL REQUIREMENTS.
- CONTRACTOR TO PROVIDE UPDATED NAME PLATES TO IDENTIFY THE NEW CIRCUIT BREAKERS WITHIN THE MAIN SWITCHBOARD AND DISTRIBUTION BOARDS. CONTRACTOR TO PROVIDE NEW TYPED PANEL DIRECTORIES FOR BRANCH CIRCUIT PANELS AFFECTED BY THE SCOPE OF WORK UPON COMPLETION OF THE REMODEL WORK.
- CONTRACTOR TO PROVIDE ALL REQUIRED MOUNTING HARDWARE REQUIRED FOR FULLY OPERABLE CIRCUIT BREAKERS.

SINGLE LINE NOTES:

- EXISTING UTILITY METER TO REMAIN.

EXISTING PANEL "3HB"											
VOLTAGE 480/277V-4-WIRE LOCATION: ELECTRICAL 223				MAIN BREAKER: MLO BUS SIZE COPPER: 400A				SCA: MOUNT: SURFACE ENTRY: BOTTOM			
DESCRIPTION	QCT	BKR	P	LTS	REC	MSC	MTR	A-VA	B-VA	C-VA	AMPS
H-22 / H-22 POWER EXHAUST	1	20	3					3569			
W/CKT. 1	3	---	---						3569		
W/CKT. 1	5	---	---							3569	
H-20 / H-20 POWER EXHAUST	7	20	3			2		3569			
W/CKT. 7	9	---	---						3569		
W/CKT. 7	11	---	---							3569	
H-14 / H-14 POWER EXHAUST	13	20	3			2		3569			
W/CKT. 13	15	---	---						3569		
W/CKT. 13	17	---	---							3569	
H-12 / H-12 POWER EXHAUST	19	20	3			2		3569			
W/CKT. 19	21	---	---						3569		
W/CKT. 19	23	---	---							3569	
H-6 / H-6 POWER EXHAUST	25	20	3			2		3735			
W/CKT. 25	27	---	---						3735		
W/CKT. 25	29	---	---							3735	
H-3	31	20	3			1		3597			
W/CKT. 31	33	---	---						3597		
W/CKT. 31	35	---	---							3597	
H-5 POWER EXHAUST	37	15	3			1		969			
W/CKT. 37	39	---	---						969		
W/CKT. 37	41	---	---							969	
				SUB TOTAL VOLTIAMPS:				22577	22577	22577	
				PANEL SUB TOTAL VOLTIAMPS:				45293	45293	45293	
				TOTAL LCL/PHASE				0	0	0	
CONNECTED 135879 VA				TOTAL VOLTIAMPS				45293	45293	45293	
25% OF MTR. VA				TOTAL AMPS/PHASE				164	164	164	
26% OF LCL. 0 VA											
CALCULATED 135879 VA =				163.44 AVERAGE AMPS							

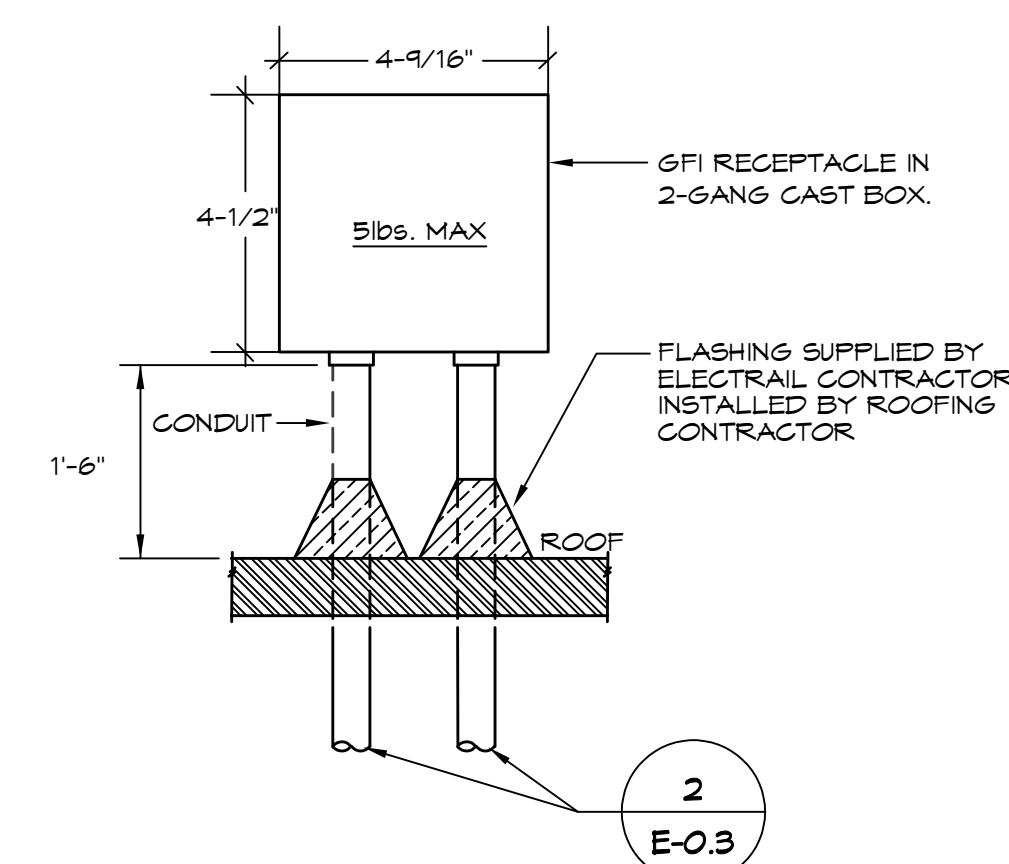
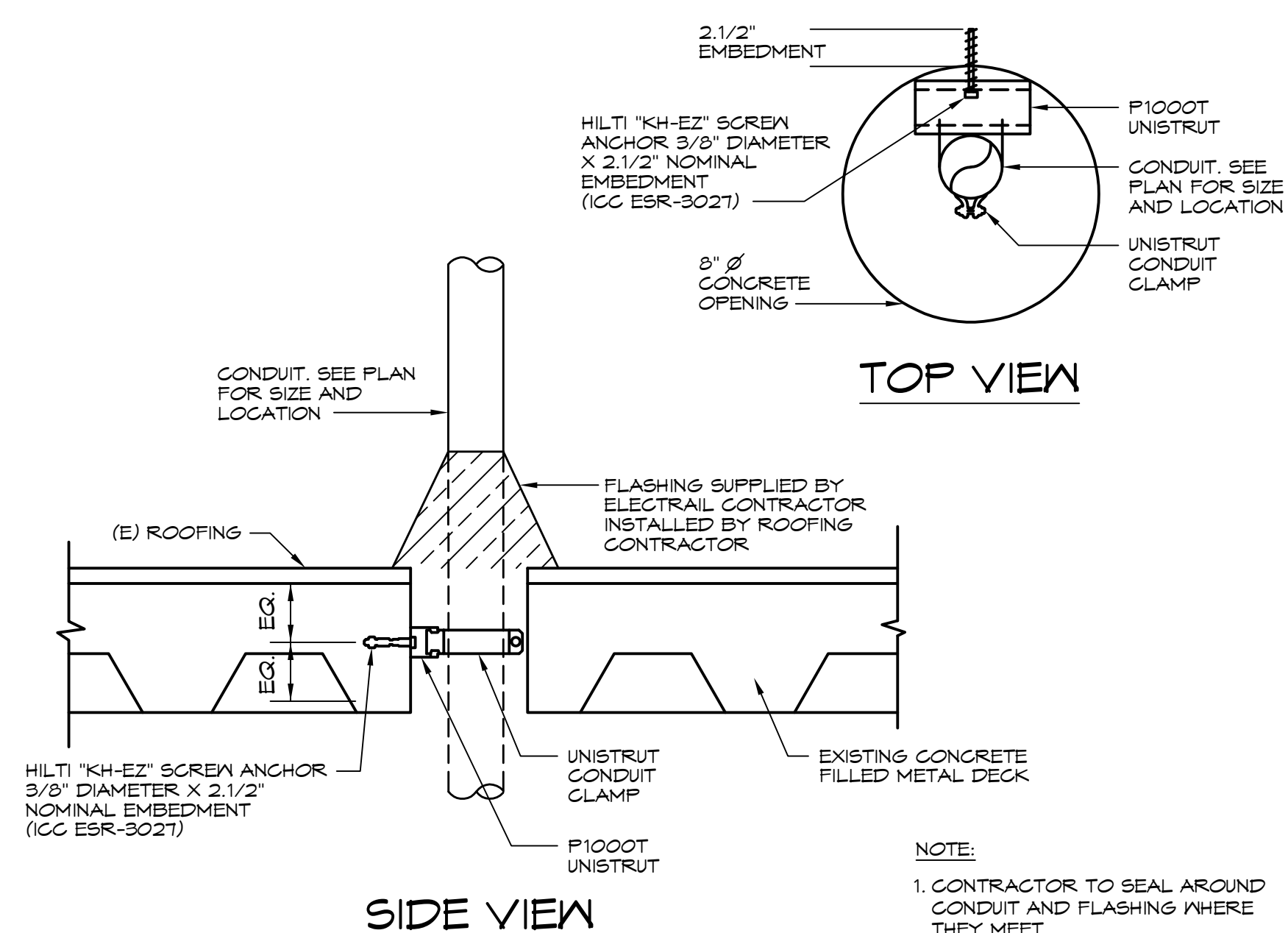
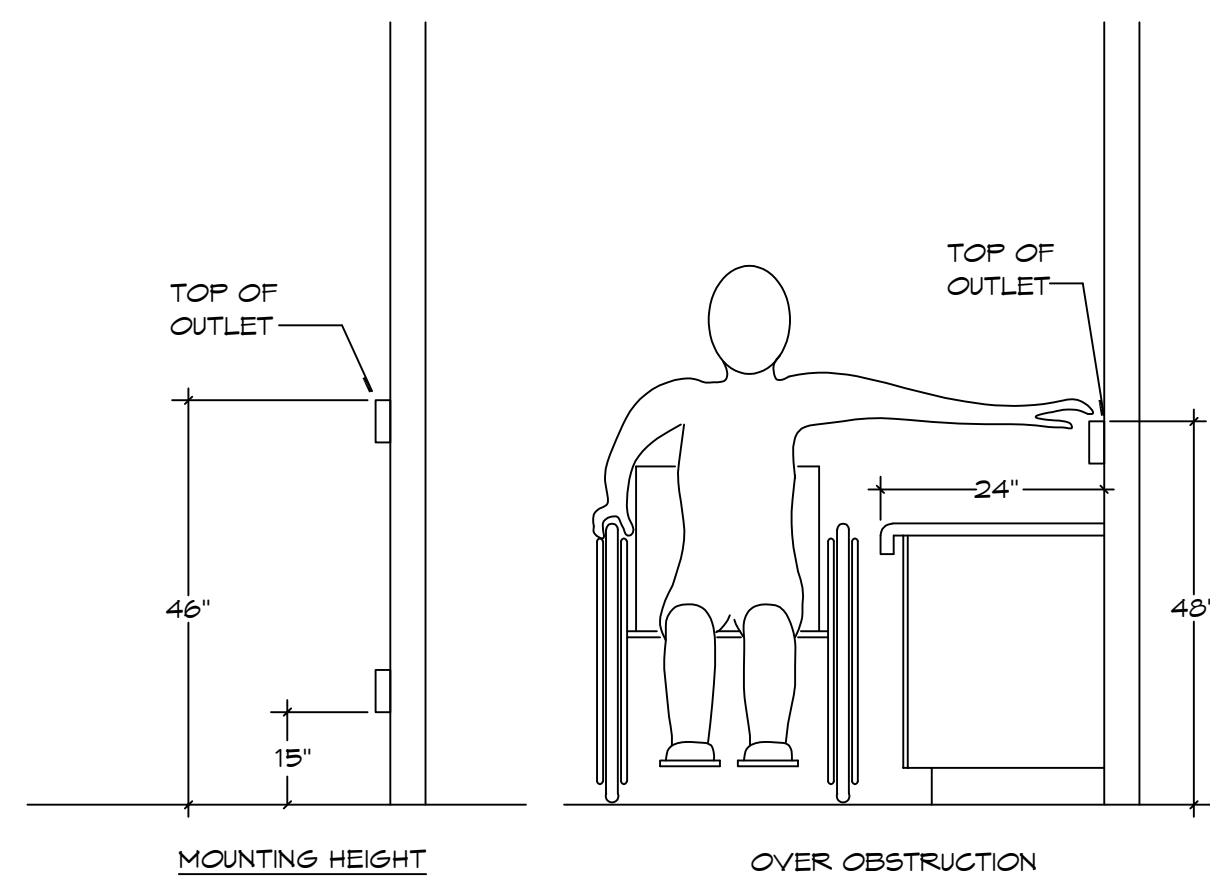
- * = NEW LOAD AT EXISTING CIRCUIT BREAKER LOCATION.
□ = NEW LOAD AND NEW CIRCUIT BREAKER AT REMOVED CIRCUIT BREAKER LOCATION. NEW CIRCUIT BREAKER SHALL MATCH EXISTING IN MANUFACTURER AND DUTY. CONTRACTOR SHALL TURN OVER ALL REMOVED CIRCUIT BREAKERS TO THE OWNER.

EXISTING PANEL "3HC"											
VOLTAGE 480/277V-4-WIRE LOCATION: ELECTRICAL 223				MAIN BREAKER: MLO BUS SIZE COPPER: 400A				SCA: MOUNT: SURFACE ENTRY: BOTTOM			
DESCRIPTION	QCT	BKR	P	LTS	REC	MSC	MTR	A-VA	B-VA	C-VA	AMPS
H-24	1	20	3					3597			
W/CKT. 1	3	---	---						3597		
W/CKT. 1	5	---	---							3597	
H-18	7	20	3			1		3597			
W/CKT. 7	9	---	---						3597		
W/CKT. 7	11	---	---							3597	
H-16	13	20	3			1		3597			
W/CKT. 13	15	---	---						3597		
W/CKT. 13	17	---	---							3597	
H-10	19	20	3			1		3597			
W/CKT. 21	21	---	---						3597		
W/CKT. 21	23	---	---							3597	
H-8	25	20	3			1		3597			
W/CKT. 25	27	---	---						3597		
W/CKT. 25	29	---	---							3597	
H-2	31	20	3			1		3597			
W/CKT. 31	33	---	---						3597		
W/CKT. 31	35	---	---							3597	
H-3 POWER EXHAUST	37	15	3			1		969			
W/CKT. 37	39	---	---						969		
W/CKT. 37	41	---	---							969	
				SUB TOTAL VOLTIAMPS:				21582	21582	21582	
				PANEL SUB TOTAL VOLTIAMPS:				44133	44133	44133	
				TOTAL LCL/PHASE				0	0	0	
CONNECTED 132399 VA				TOTAL VOLTIAMPS				44133	44133	44133	
25% OF MTR. VA				TOTAL AMPS/PHASE				159	159	159	
26% OF LCL. 0 VA											
CALCULATED 132399 VA =				159.25 AVERAGE AMPS							

- * = NEW LOAD AT EXISTING CIRCUIT BREAKER LOCATION.
△ = NEW LOAD AND NEW CIRCUIT BREAKER AT EXISTING SPACE. NEW CIRCUIT BREAKER SHALL MATCH EXISTING IN MANUFACTURER AND DUTY.

EXISTING PANEL "3LR"											
VOLTAGE 308/120V-4-WIRE LOCATION: ELECTRICAL 223				MAIN BREAKER: MLO BUS SIZE COPPER: 125A				SCA: MOUNT: SURFACE ENTRY: BOTTOM			
DESCRIPTION	QCT	BKR	P	LTS	REC	MSC	MTR	A-VA	B-VA	C-VA	AMPS
SHP1	1	25	2					1508			
W/CKT. 1	3	---	---						1508		
SHP2	5	25	2			1		1207			
W/CKT. 5	7	---	---						1207		
SHP3	9	25	2			1		1207			
W/CKT. 9	11	---	---						1207		
SHP5	13	25	2			1		1207			
W/CKT. 13	15	---	---						1207		
SHP7	17	25	2			1		1207			
W/CKT. 17	19	---	---						1207		
SHP9	21	25	2			1		1207			
W/CKT. 21	23	---	---						1207		
SHP8	25	25	2			1		1207			
W/CKT. 25	27	---	---						1207		
SHP9	29	25	2			1		1207			
W/CKT. 29	31	---	---						1207		
SHP10	33	25	2			1		1207			
W/CKT. 33	35	---	---						1207		
SHP4	37	25	2			1		1207			
W/CKT. 37	39	---	---						1207		
SPACE	41	---	---								
				SUB TOTAL VOLTIAMPS:				8750	8750	7242	
				PANEL SUB TOTAL VOLTIAMPS:				2175	2175	1800	
				TOTAL LCL/PHASE				0	0	0	
CONNECTED 30892 VA				TOTAL VOLTIAMPS				10925	10925	9042	
25% OF MTR. VA				TOTAL AMPS/PHASE				91	91	75	
26% OF LCL. 0 VA											
CALCULATED 30892 VA =				85.75 AVERAGE AMPS							

- * = NEW LOAD AT EXISTING CIRCUIT BREAKER LOCATION.
□ = NEW LOAD AND NEW CIRCUIT BREAKER AT REMOVED CIRCUIT BREAKER LOCATION. NEW CIRCUIT BREAKER SHALL MATCH EXISTING IN MANUFACTURER AND DUTY. CONTRACTOR SHALL TURN OVER ALL REMOVED CIRCUIT BREAKERS TO THE OWNER.



DEVICE MOUNTING HEIGHTS	SCALE: NONE	1	CONDUIT ROOF PENETRATION	SCALE: NONE	2	ROOF RECEPTACLE	SCALE: NONE	3	NOT USED	SCALE: NONE	4
NOT USED	SCALE: NONE	5	NOT USED	SCALE: NONE	6	NOT USED	SCALE: NONE	7	NOT USED	SCALE: NONE	8
NOT USED	SCALE: NONE	9	NOT USED	SCALE: NONE	10	NOT USED	SCALE: NONE	11	NOT USED	SCALE: NONE	12
NOT USED	SCALE: NONE	13	NOT USED	SCALE: NONE	14	NOT USED	SCALE: NONE	15	NOT USED	SCALE: NONE	16

No.	Rev. Date	Description
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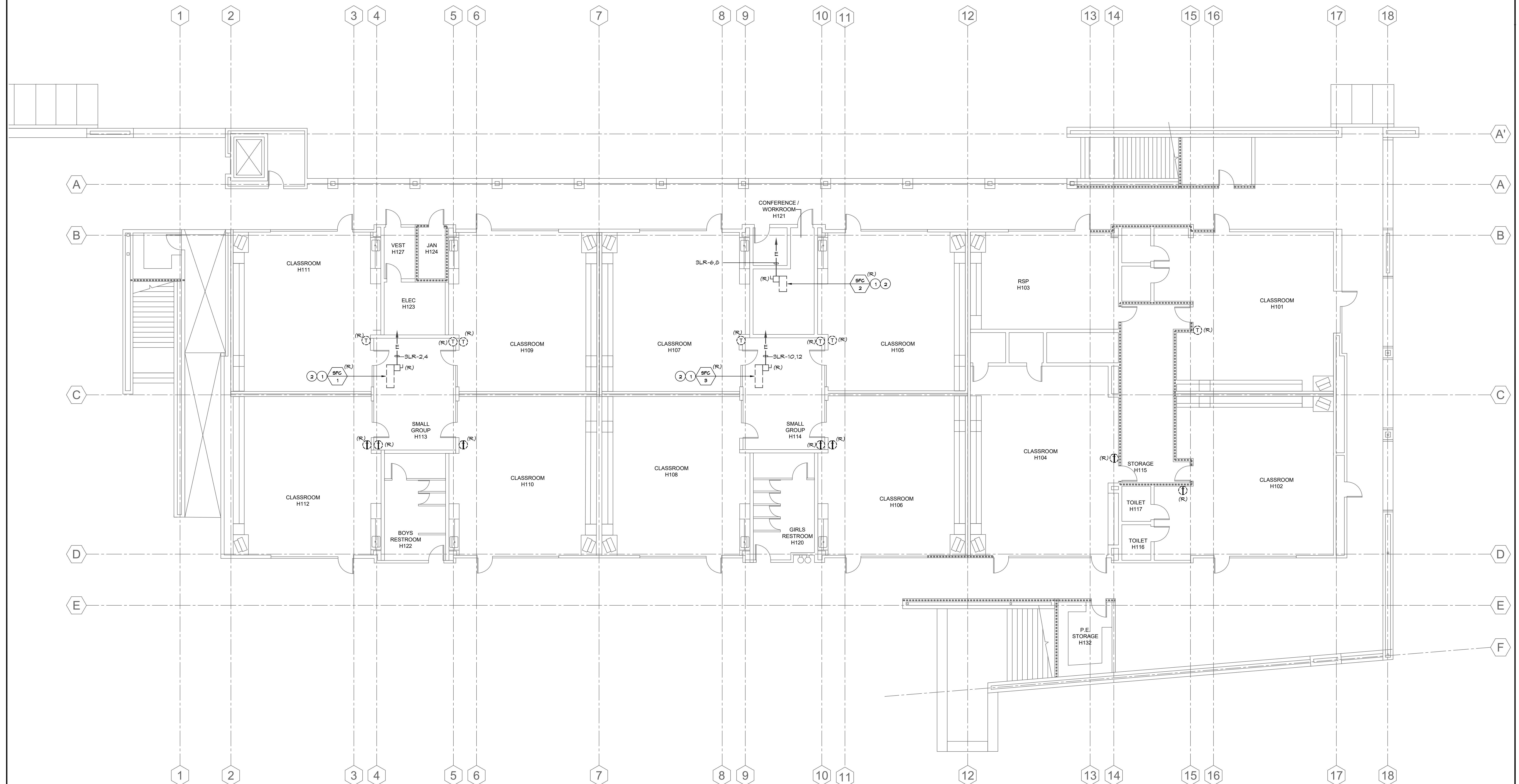
PROJECT NAME:

WILL ROGERS ELEMENTARY SCHOOL
LYNWOOD UNIFIED SCHOOL DISTRICT
11220 DUNCAN AVENUE
LYNWOOD, CALIFORNIA, 90262

No.	Rev. Date	Description
△	4/27/2026	BACKCHECK PH 1
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NO:	501-26-0008	
DATE:	3/23/2026	
DRAWN:	LS	
CHECK:	LMF	
ARCHITECT:		
ENGINEER:	OED	
SA NUMBER:	03-125978	
CONSULTANT		

SHEET DESCRIPTION:
BUILDING H
1ST FLOOR
DEMOLITION
PLAN

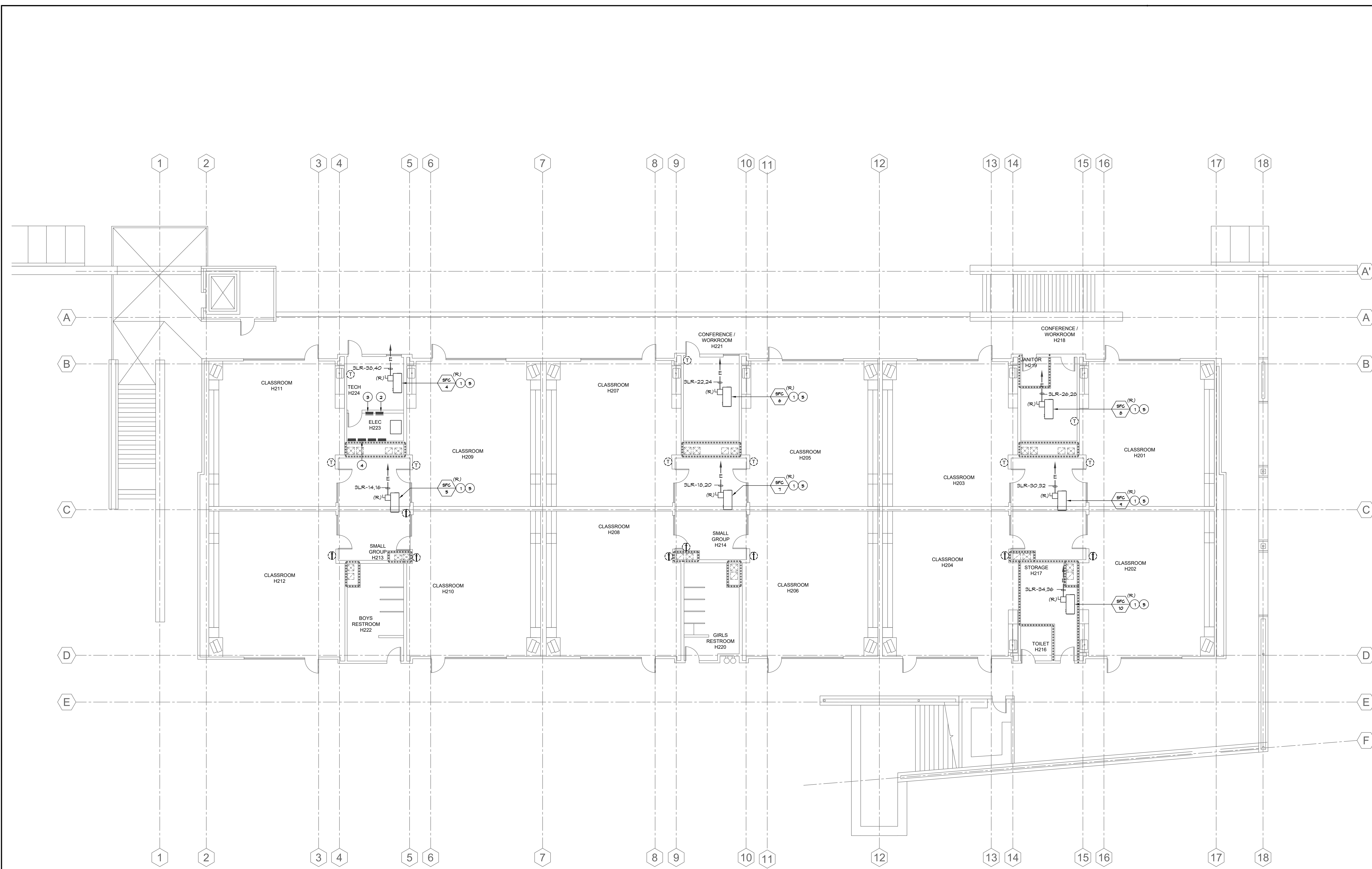
SHEET NO:
ED-1.1



N REF. NORTH

SCALE
1/8" = 1'-0"

1



PLAN NOTES:

- 1 CONTRACTOR SHALL REMOVE EXISTING HVAC UNIT AND DISCONNECT SWITCH ONLY. CONTRACTOR SHALL UTILIZE EXISTING CONDUIT AND CONDUCTORS FOR CONNECTION OF NEW HVAC UNIT AND NEW DISCONNECT SWITCH. REFER TO REMODEL PLAN FOR ADDITIONAL REQUIREMENTS.
- 2 EXISTING PANEL "3HB".
- 3 EXISTING PANEL "3HC".
- 4 EXISTING PANEL "3LR".
- 5 CONTRACTOR SHALL REMOVE EXISTING SOUTHERN CALIFORNIA EDISON (SCE) CYCLING DEVICE AND ASSOCIATED CONDUIT AND CONDUCTORS. CONTRACTOR SHALL TURN OVER REMOVED SOUTHERN CALIFORNIA EDISON (SCE) CYCLING DEVICE TO THE OWNER UPON COMPLETION OF DEMOLITION WORK.

CONSTRUCTION NOTES:

- 1 THE CONTRACTOR SHALL NOTE THAT THE DRAWING IS DIAGRAMMATIC. EXACT ROUTING OF EXISTING CONDUITS AND LOCATION OF EXISTING JUNCTION BOXES, DISCONNECT SWITCHES, AND PULL BOXES SHALL BE COORDINATED AND DETERMINED IN THE FIELD.

- 2 CONTRACTOR SHALL PROVIDE UPDATE PANEL DIRECTORY (TYPED) AT ALL EXISTING DISTRIBUTION BOARDS AND BRANCH CIRCUIT PANELS FOR ALL REMOVED AND ADDED HVAC EQUIPMENT.
- 3 ELECTRICAL CONTRACTOR SHALL DISCONNECT POWER FROM MECHANICAL EQUIPMENT TO BE REMOVED, RELOCATED, RE-USED AND/OR REPLACED AS REQUIRED. CONTRACTOR SHALL RECONNECT POWER TO ALL MECHANICAL EQUIPMENT BEING RE-USED AND/OR RELOCATED AS REQUIRED. REFER TO MECHANICAL DRAWINGS FOR ALL EQUIPMENT TO BE REMOVED, RELOCATED, RE-USED AND/OR REPLACED.
- 4 ALL CIRCUITS SERVING THE REMODEL AREA, WHETHER IDENTIFIED ON PLAN OR NOT, SHALL BE TRACED AND IDENTIFIED PRIOR TO START OF THE DEMOLITION PHASE. CIRCUITS AFFECTED BY THE REMODEL THAT SERVE AREAS OF THE BUILDING THAT ARE NOT A PART OF THE REMODEL SHALL BE MAINTAINED IN OPERATION DURING THE CONSTRUCTION PHASE. INTERRUPTION OF SERVICE WILL NOT BE ALLOWED.
- 5 REFER TO GENERAL NOTES AND DEMOLITION NOTES, DRAWING E-0.1, FOR ADDITIONAL REQUIREMENTS.

BUILDING H SECOND FLOOR DEMOLITION PLAN



SCALE
1/8" = 1'-0"

1

STAMP

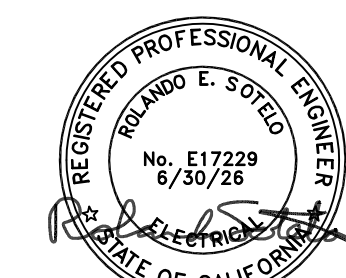
PROJECT NAME:

WILL ROGERS ELEMENTARY SCHOOL
LYNWOOD UNIFIED SCHOOL DISTRICT
11220 DUNCAN AVENUE
LYNWOOD, CALIFORNIA, 90262

No.	Rev. Date	Description
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JOB NO: 501-26-0008
DATE: 3/23/2026
DRAWN: LS
CHECK: LMF
ARCHITECT:
ENGINEER: OED
DSA NUMBER: 03-125978
CONSULTANT

STAMP



SHEET DESCRIPTION:
BUILDING H
2ND FLOOR
DEMOLITION
PLAN

SHEET NO:
ED-1.2

PROJECT NAME:

WILL ROGERS ELEMENTARY SCHOOL
LYNWOOD UNIFIED SCHOOL DISTRICT
11220 DUNCAN AVENUE
LYNWOOD, CALIFORNIA, 90262

No.	Rev. Date	Description
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SHEET DESCRIPTION:
BUILDING H
DEMOLITION
ROOF PLAN

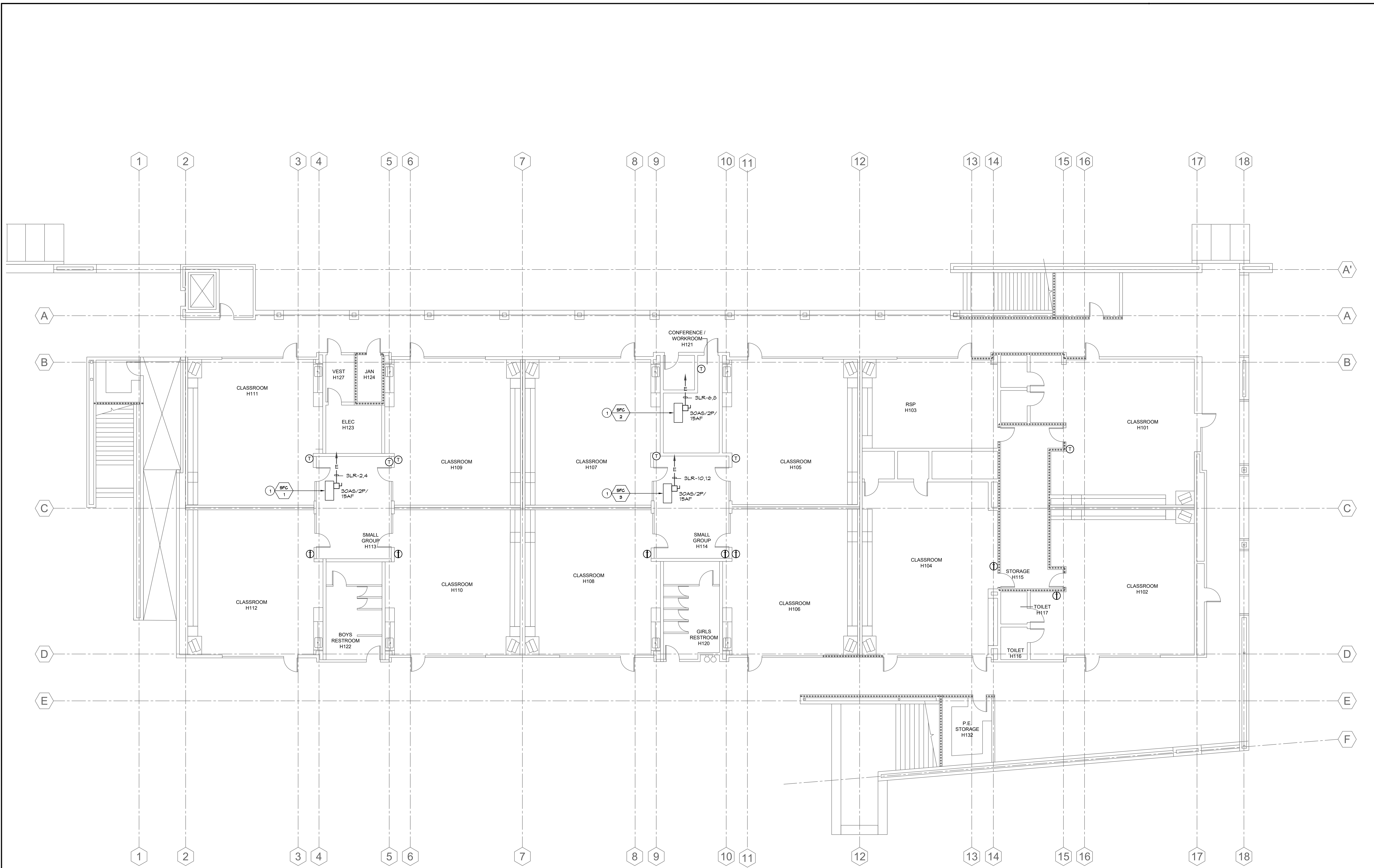
SHEET NO:
ED-1.3



BUILDING H DEMOLITION ROOF PLAN

SCALE

1/8" = 1'-0"



PLAN NOTES:

1 NEW HVAC UNIT AND NEW DISCONNECT SWITCH AT REMOVED HVAC UNIT AND DISCONNECT SWITCH. CONTRACTOR SHALL CONNECT NEW HVAC UNIT TO THE EXISTING CONDUITS PREVIOUSLY FEEDING THE REMOVED HVAC UNIT. CONTRACTOR SHALL PROVIDE AND EXTEND NEW CONDUIT / CONDUCTORS AS REQUIRED TO ENSURE A FULLY OPERABLE HVAC UNIT UPON COMPLETION OF INSTALLATION. REFER TO DEMOLITION PLAN FOR ADDITIONAL REQUIREMENTS.

CONSTRUCTION NOTES:

1 REFER TO GENERAL NOTES AND DEMOLITION NOTES, DRAWING E-0.1, FOR ADDITIONAL REQUIREMENTS.

2 CONTRACTOR SHALL PROVIDE UPDATE PANEL DIRECTORY (TYPED) AT ALL EXISTING DISTRIBUTION BOARDS AND BRACH CIRCUIT PANELS FOR ALL REMOVED AND ADDED HVAC EQUIPMENT.

3 THE CONTRACTOR SHALL NOTE THAT THE DRAWING IS DIAGRAMMATIC. EXACT ROUTING OF EXISTING CONDUITS AND LOCATION OF EXISTING JUNCTION BOXES, DISCONNECT SWITCHES, AND PULL BOXES SHALL BE COORDINATED AND DETERMINED IN THE FIELD.

4 SEE SINGLE LINE DIAGRAM, DRAWINGS E-0.2 FOR CONDUIT SIZE, WIRE SIZE AND QUANTITIES TO BE PROVIDED FOR ALL ELECTRICAL EQUIPMENT.

5 ALL CIRCUITS SERVING THE REMODEL AREA, WHETHER IDENTIFIED ON PLAN OR NOT, SHALL BE TRACED AND IDENTIFIED PRIOR TO START OF THE DEMOLITION PHASE. CIRCUITS AFFECTED BY THE REMODEL THAT SERVE AREAS OF THE BUILDING THAT ARE NOT A PART OF THE REMODEL SHALL BE MAINTAINED IN OPERATION DURING THE CONSTRUCTION PHASE. INTERRUPTION OF SERVICE WILL NOT BE ALLOWED.

6 THE CONTRACTOR SHALL REFER TO THE MECHANICAL AND PLUMBING DRAWINGS FOR EXACT EQUIPMENT LOCATIONS AND ELECTRICAL CONNECTIONS REQUIREMENTS / POINTS OF CONNECTION. CONTRACTOR SHALL PROVIDE ALL POWER AND CONTROL CONNECTIONS AS INDICATED ON THE MECHANICAL AND PLUMBING DRAWINGS.

AGENCY APPROVAL
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125978 INC.
REVIEWED FOR
SS ☒ FLS ☒ ACS ☐
DATE: 05/26/2026

optimum
energy
design
Consulting Engineers
5200 E. La Palma Ave
Anaheim, CA 92807
Telephone (714) 693-2277

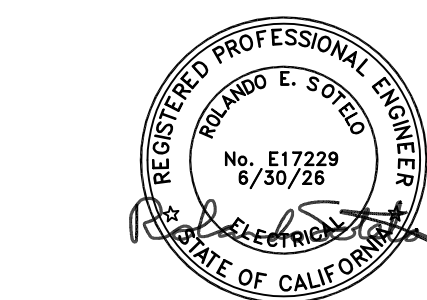
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PROJECT NAME:

WILL ROGERS ELEMENTARY SCHOOL
LYNWOOD UNIFIED SCHOOL DISTRICT
11220 DUNCAN AVENUE
LYNWOOD, CALIFORNIA, 90262

No.	Rev.	Date	Description
△		4/27/2026	BACKCHECK PH 1
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JOB NO:			501-26-0008
DATE:			3/23/2026
DRAWN:			LS
CHECK:			LMF
ARCHITECT:			
ENGINEER:			OED
DSA NUMBER:			03-125978
CONSULTANT			

STAMP



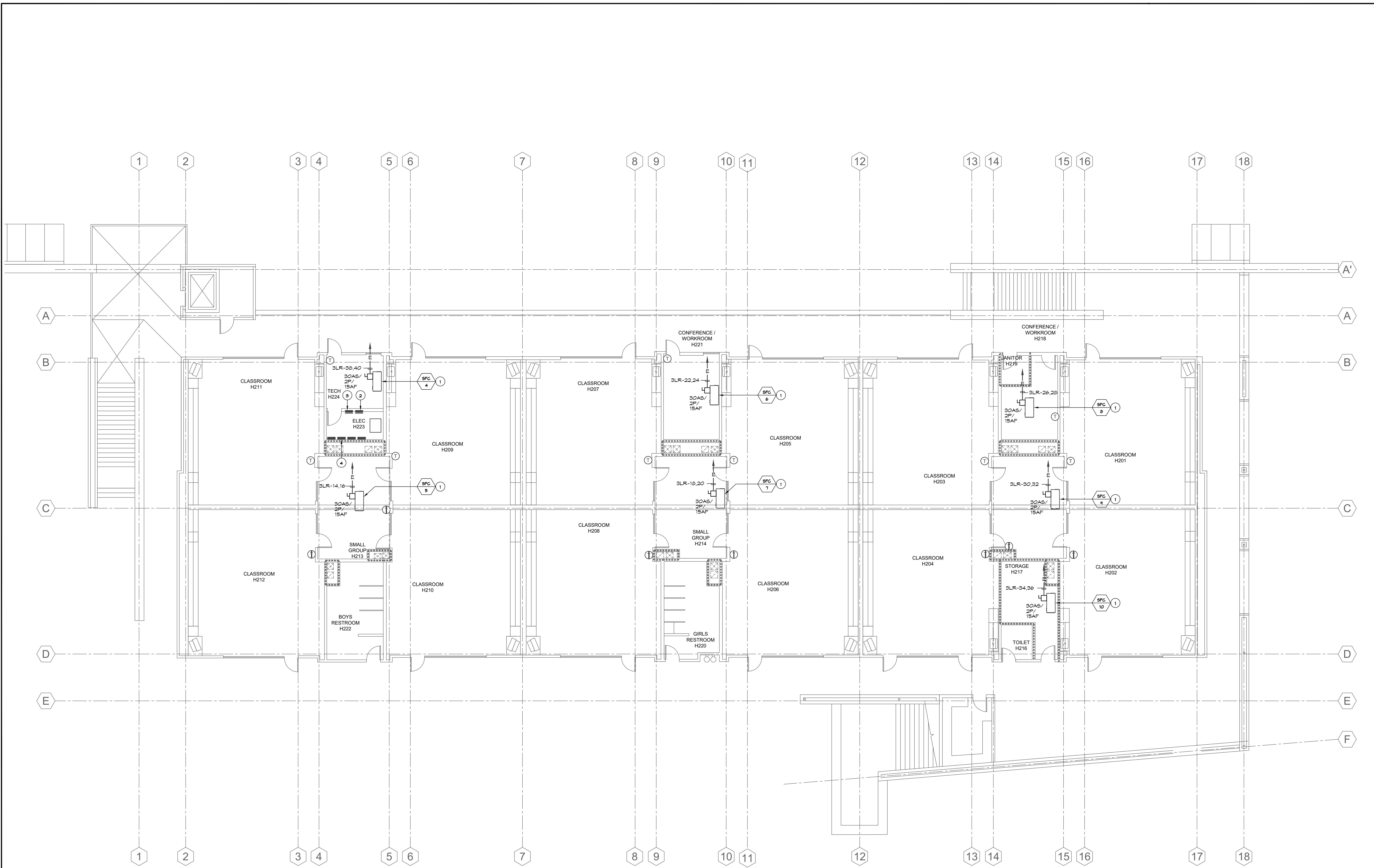
SHEET DESCRIPTION:
BUILDING H
1ST FLOOR
REMODEL
PLAN

SHEET NO:
E-1.1

BUILDING H FIRST FLOOR REMODEL PLAN

SCALE
1/8" = 1'-0"

1



PLAN NOTES:

1. NEW HVAC UNIT AND NEW DISCONNECT SWITCH AT REMOVED HVAC UNIT AND DISCONNECT SWITCH. CONTRACTOR SHALL CONNECT NEW HVAC UNIT TO THE EXISTING CONDUITS PREVIOUSLY FEEDING THE REMOVED HVAC UNIT. CONTRACTOR SHALL PROVIDE AND EXTEND NEW CONDUIT / CONDUCTORS AS REQUIRED TO ENSURE A FULLY OPERABLE HVAC UNIT UPON COMPLETION OF INSTALLATION. REFER TO DEMOLITION PLAN, ED-2.1, FOR ADDITIONAL REQUIREMENTS.
2. EXISTING PANEL "3HB".
3. EXISTING PANEL "3HC".
4. EXISTING PANEL "3LR".

CONSTRUCTION NOTES:

1. REFER TO GENERAL NOTES AND DEMOLITION NOTES, DRAWING E-0.1, FOR ADDITIONAL REQUIREMENTS.
2. CONTRACTOR SHALL PROVIDE UPDATE PANEL DIRECTORY (TYPED) AT ALL EXISTING DISTRIBUTION BOARDS AND BRACH CIRCUIT PANELS FOR ALL REMOVED AND ADDED HVAC EQUIPMENT.

3. THE CONTRACTOR SHALL NOTE THAT THE DRAWING IS DIAGRAMMATIC. EXACT ROUTING OF EXISTING CONDUITS AND LOCATION OF EXISTING JUNCTION BOXES, DISCONNECT SWITCHES, AND PULL BOXES SHALL BE COORDINATED AND DETERMINED IN THE FIELD.
4. SEE SINGLE LINE DIAGRAM, DRAWINGS E-0.2 FOR CONDUIT SIZE, WIRE SIZE AND QUANTITIES TO BE PROVIDED FOR ALL ELECTRICAL EQUIPMENT.
5. ALL CIRCUITS SERVING THE REMODEL AREA, WHETHER IDENTIFIED ON PLAN OR NOT, SHALL BE TRACED AND IDENTIFIED PRIOR TO START OF THE DEMOLITION PHASE. CIRCUITS AFFECTED BY THE REMODEL THAT SERVE AREAS OF THE BUILDING THAT ARE NOT A PART OF THE REMODEL SHALL BE MAINTAINED IN OPERATION DURING THE CONSTRUCTION PHASE. INTERRUPTION OF SERVICE WILL NOT BE ALLOWED.
6. THE CONTRACTOR SHALL REFER TO THE MECHANICAL AND PLUMBING DRAWINGS FOR EXACT EQUIPMENT LOCATIONS AND ELECTRICAL CONNECTIONS REQUIREMENTS / POINTS OF CONNECTION. CONTRACTOR SHALL PROVIDE ALL POWER AND CONTROL CONNECTIONS AS INDICATED ON THE MECHANICAL AND PLUMBING DRAWINGS.

BUILDING H SECOND FLOOR REMODEL PLAN



SCALE
1/8" = 1'-0"

1

AGENCY APPROVAL
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125978 INC.
REVIEWED FOR
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DATE: 05/26/2026

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5200 E. La Palma Ave
Anaheim, CA 92807
Telephone (714) 693-2277

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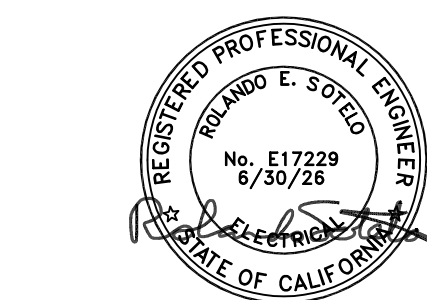
PROJECT NAME:

WILL ROGERS ELEMENTARY SCHOOL
LYNWOOD UNIFIED SCHOOL DISTRICT
11220 DUNCAN AVENUE
LYNWOOD, CALIFORNIA, 90262

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JOB NO: 501-26-0008
DATE: 3/23/2026
DRAWN: LS
CHECK: LMF
ARCHITECT:
ENGINEER: OED
DSA NUMBER: 03-125978
CONSULTANT

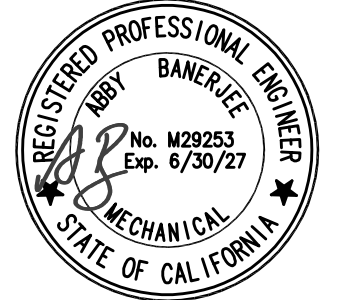
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SHEET DESCRIPTION:
BUILDING H
2ND FLOOR
REMODEL
PLAN
SHEET NO:

E-1.2

STAMP



PROJECT NAME:

WILL ROGERS ELEMENTARY SCHOOL
LYNWOOD UNIFIED SCHOOL DISTRICT
11220 DUNCAN AVENUE
LYNWOOD, CALIFORNIA, 90262

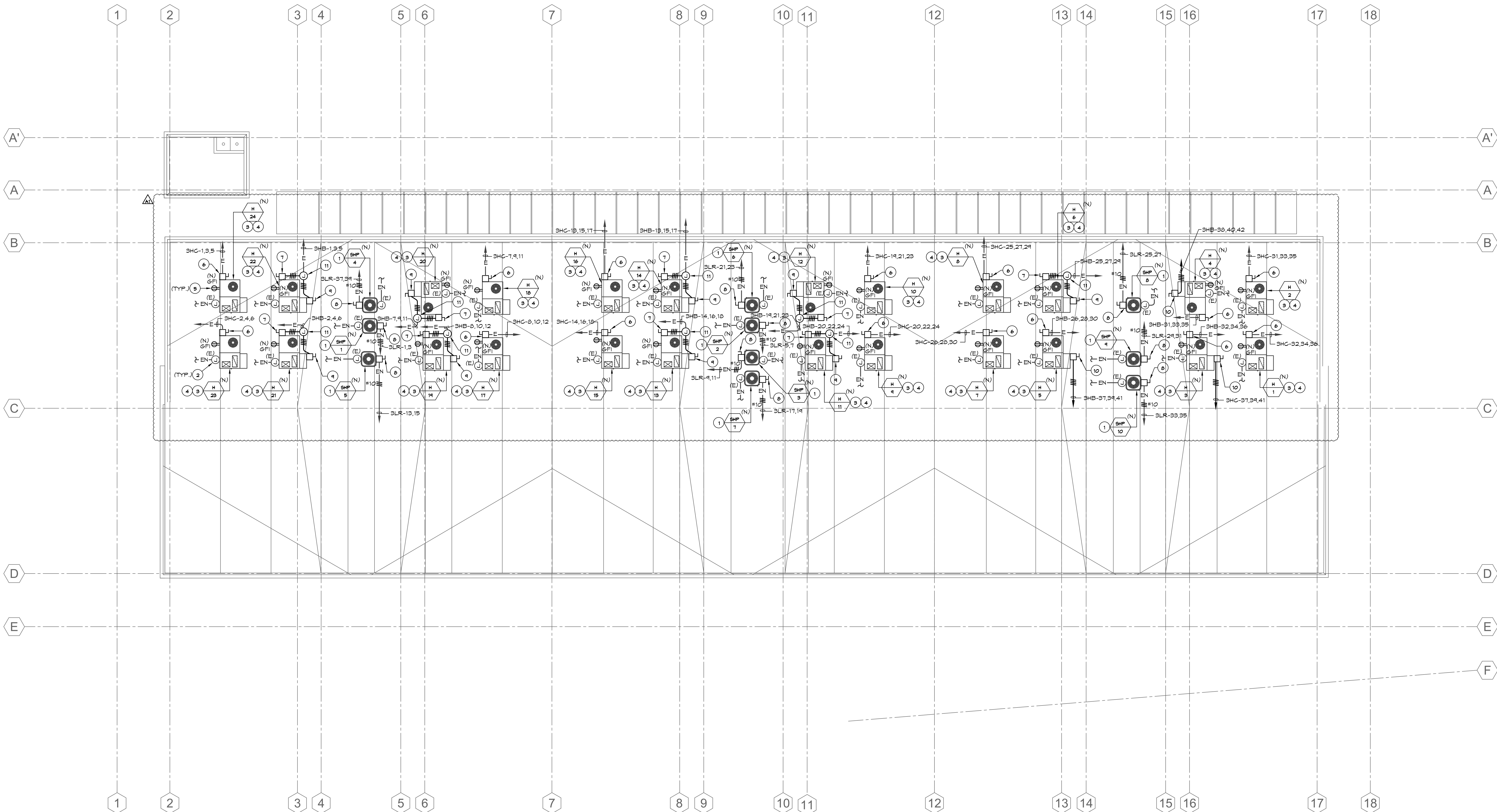
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JOB NO: 501-26-0008		
DATE: 3/23/2026		
DRAWN: LS		
CHECK: LMF		
ARCHITECT:		
ENGINEER: OED		
DSA NUMBER: 03-125978		
CONSULTANT		

STAMP



SHEET DESCRIPTION:
BUILDING H
REMODEL
ROOF PLAN

SHEET NO:
E1.3



PLAN NOTES:

- NEW HVAC UNIT, CONDUCTORS AND DISCONNECT SWITCH AT REMOVED HVAC UNIT. CONDUCTOR AND DISCONNECT SWITCH. CONTRACTOR SHALL ROUTE NEW CONDUCTORS WITHIN EXISTING CONDUIT FOR NEW HVAC UNIT. CONTRACTOR SHALL PROVIDE AND EXTEND NEW CONDUIT, CONDUCTORS FITTINGS, ETC. AS REQUIRED TO ENSURE A FULLY OPERABLE HVAC UNIT UPON COMPLETION OF INSTALLATION. REFER TO DEMOLITION PLAN FOR ADDITIONAL REQUIREMENTS.
- EXISTING CONTROLS JUNCTION BOX AND CONDUIT PATHWAY. CONTRACTOR SHALL ROUTE NEW CONTROL CONDUCTORS WITHIN EXISTING CONDUIT FOR NEW HVAC UNIT. CONTRACTOR SHALL PROVIDE AND EXTEND NEW CONDUIT, CONTROL CONDUCTORS, FITTINGS, ETC. AS REQUIRED TO ENSURE A FULLY OPERABLE HVAC UNIT AND CONTROL DEVICE UPON COMPLETION OF INSTALLATION. REFER TO DEMOLITION PLAN FOR ADDITIONAL REQUIREMENTS.
- NEW HVAC UNIT AND NEW DISCONNECT SWITCH AT REMOVED HVAC UNIT AND DISCONNECT SWITCH. CONTRACTOR SHALL CONNECT NEW HVAC UNIT TO THE EXISTING CONDUCTORS PREVIOUSLY FEEDING THE REMOVED HVAC UNIT. CONTRACTOR SHALL PROVIDE AND EXTEND NEW CONDUIT / CONDUCTORS AS REQUIRED TO ENSURE A FULLY OPERABLE HVAC UNIT UPON COMPLETION OF INSTALLATION. REFER TO DEMOLITION PLAN FOR ADDITIONAL REQUIREMENTS.
- CONTRACTOR SHALL RECONNECT THE EXISTING FIRE ALARM CONTROL RELAY TO THE EXISTING FIRE ALARM SYSTEM. CONTRACTOR SHALL PROVIDE AND EXTEND NEW CONDUIT, CABLES / CONDUCTORS AS REQUIRED TO ENSURE FULLY OPERABLE FIRE ALARM CONTROL RELAY UPON COMPLETION OF RECONNECTION AND REMODEL WORK. IN ADDITION, IF REQUIRED, CONTRACTOR SHALL PROVIDE ALL FIRE ALARM SYSTEM PROGRAMMING IN ORDER TO HAVE A FULLY OPERABLE FIRE ALARM CONTROL RELAY UPON COMPLETION OF WORK. REFER TO DEMOLITION PLAN FOR ADDITIONAL REQUIREMENTS.
- NEW HVAC SERVICE RECEPTACLE. CONTRACTOR SHALL CONNECT NEW RECEPTACLE TO THE EXISTING CONDUCTORS PREVIOUSLY FEEDING THE REMOVED RECEPTACLE. CONTRACTOR SHALL PROVIDE AND EXTEND NEW CONDUIT / CONDUCTORS AS REQUIRED TO ENSURE A FULLY OPERABLE RECEPTACLE UPON COMPLETION OF INSTALLATION. REFER TO DEMOLITION PLAN FOR ADDITIONAL REQUIREMENTS.
- NEW 30AS/3P/20AF DISCONNECT SWITCH, NEMA 3R TYPE.
- NEW 30AS/3P/15AF DISCONNECT SWITCH, NEMA 3R TYPE.
- NEW 30AS/2P/25AF DISCONNECT SWITCH, NEMA 3R TYPE.
- NEW 30AS/3P/4AF DISCONNECT SWITCH, NEMA 3R TYPE.

CONSTRUCTION NOTES:

- THE CONTRACTOR SHALL NOTE THAT THE DRAWING IS DIAGRAMMATIC. EXACT ROUTING OF EXISTING CONDUITS AND LOCATION OF EXISTING JUNCTION BOXES, DISCONNECT SWITCHES, AND PULL BOXES SHALL BE COORDINATED AND DETERMINED IN THE FIELD.
- CONTRACTOR SHALL PROVIDE UPDATE PANEL DIRECTORY (TYPED) AT ALL EXISTING DISTRIBUTION BOARDS AND BRANCH CIRCUIT PANELS FOR ALL REMOVED AND ADDED HVAC EQUIPMENT.
- ALL CIRCUITS SERVING THE REMODEL AREA, WHETHER IDENTIFIED ON PLAN OR NOT, SHALL BE TRACED AND IDENTIFIED PRIOR TO START OF THE DEMOLITION PHASE. CIRCUITS AFFECTED BY THE REMODEL THAT SERVE AREAS OF THE BUILDING THAT ARE NOT A PART OF THE REMODEL SHALL BE MAINTAINED IN OPERATION DURING THE CONSTRUCTION PHASE. INTERRUPTION OF SERVICE WILL NOT BE ALLOWED.
- REFER TO GENERAL NOTES AND DEMOLITION NOTES, DRAWING E-0.1, FOR ADDITIONAL REQUIREMENTS.
- CONTRACTOR SHALL PROVIDE ENGRAVED LABELING AT EACH RECEPTACLE, DATA OUTLET, JUNCTION BOX, DISCONNECT SWITCH, EGT. DISPLAYING THE DF OR PANEL (WITH CIRCUIT) FEEDING THE DATA OUTLET, RECEPTACLE, JUNCTION BOX, DISCONNECT SWITCH, EGT.
- 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.

BUILDING H REMODEL ROOF PLAN

SCALE
1/8" = 1'-0"

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MEP COMPONENT ANCHORAGE NOTE

All mechanical, plumbing, and electrical components shall be anchored and installed per the details on the DSA-approved construction documents. The following components shall be anchored or braced to meet the force and displacement requirements prescribed in the 2025 CBC Sections 1617A.1.18 through 1617A.1.26 and ASCE 7-16 Chapters 13, 26, and 30:

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

The following mechanical and electrical components shall be positively attached to the structure but need not demonstrate design compliance with the references noted above. These components shall have flexible connections provided between the component and associated ductwork, piping, and conduit.

Flexible connections must allow movement in both transverse and longitudinal directions:

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

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

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

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 7-22 Section 13.3 as defined in ASCE 7 Sections 13.6.5, 13.6.6, 13.6.7, 13.6.8; and 2025 CBC, Sections 1617A.1.24, 1617A.1.25 and 1617A.1.26.

The method of showing bracing and attachments to the structure for the identified distribution system are as noted below. The MEP design professional engineer responsible for content on these sheets has verified that the design methods identified below are in accordance with DSA IS 16-13.

Mechanical Piping (MP), Mechanical Ducts (MD), Plumbing Piping (PP), Electrical Distribution Systems (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

APPLICABLE CODES

BUILDING OCCUPANCY CLASSIFICATION: -

THE CONSTRUCTION OF THIS PROJECT SHALL CONFORM TO THE REQUIREMENTS OF:

CODES

2025 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR
2025 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
2025 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
2025 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
2025 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
2025 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
2025 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
2025 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
2025 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR
2025 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

GENERAL NOTES

- CONTRACTOR SHALL VERIFY EXACT LOCATION OF EXISTING LINES, LATERALS AND WYES BEFORE STARTING. SHOULD IT BE NECESSARY TO REROUTE LINES DUE TO CONDITIONS FOUND ON THE SITE OR IF INDICATED P.O.C. CANNOT BE MADE TO THE LINES AS FOUND, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT BEFORE INSTALLING ANY WORK WHICH MAY BE AFFECTED.
- OFFSET PIPES AS REQUIRED TO CLEAR MECHANICAL DUCTWORK.
- FURNISH AND INSTALL A SHUT-OFF VALVE, PLUG COCK OR STOP AT EACH PIECE OF EQUIPMENT FURNISHED BY OTHERS REQUIRING DRAIN, WASTE, WATER, ETC.
- SEAL AND FLASH ALL PENETRATIONS THROUGH ROOF WATERTIGHT.
- REFER TO MECHANICAL DRAWINGS FOR THE EXACT LOCATION OF ALL A.C. UNITS.
- UNLESS OTHERWISE NOTED, ALL CONDENSATE AND GAS DROPS SHALL BE CONCEALED IN WALLS.
- THE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC TO THE EXTENT THAT ALL OFFSETS, BENDS, SPECIAL FITTINGS AND LOCATIONS ARE NOT EXACTLY LOCATED. THE CONTRACTOR SHALL LOCATE ALL OFFSETS, BENDS, AND SPECIAL FITTINGS TO SUIT JOB SITE CONDITIONS. THEREFORE THE CONTRACTOR SHALL MAKE HIMSELF FULLY AWARE OF ALL EXISTING CONDITIONS AND LOCATE ALL REQUIRED SPECIAL FITTINGS TO SUIT EXISTING CONDITIONS.
- THIS CONTRACTOR SHALL COMPLY WITH ALL CONTRACT DOCUMENTS IN LAYING OUT HIS WORK AND EQUIPMENT. HE SHALL COORDINATE THE WORK OF THIS SECTION WITH THE WORK OF OTHER TRADES AND ALL JOB CONDITIONS.
- THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, CHARGES, AND INCIDENTAL COSTS NECESSARY FOR EXECUTION AND COMPLETION OF WORK, INCLUDING ALL CHARGES BY STATE, COUNTY AND LOCAL GOVERNMENT AGENCIES.
- THE CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL TRADES AT THE SITE. ANY COSTS TO INSTALL WORK TO ACCOMPLISH SAID COORDINATION WHICH DIFFERS FROM THE WORK AS SHOWN ON THE PLANS SHALL BE INCURRED BY THE CONTRACTOR. ANY DISCREPANCIES, AMBIGUITIES OR CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT DURING BID TIME FOR CLARIFICATION. ANY SUCH CONFLICTS NOT CLARIFIED PRIOR TO BID SHALL BE SUBJECT TO THE INTERPRETATION OF THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.
- AFTER ALL REQUIREMENTS OF THE SPECIFICATIONS AND/OR THE DRAWINGS HAVE BEEN FULLY COMPLETED, REPRESENTATIVES OF THE OWNER WILL INSPECT THE WORK. THE CONTRACTOR SHALL PROVIDE COMPETENT PERSONNEL TO DEMONSTRATE THE OPERATION OF ANY ITEM OR SYSTEM TO THE FULL SATISFACTION OF EACH REPRESENTATIVE. FINAL ACCEPTANCE OF THE WORK WILL BE MADE BY THE OWNER AFTER RECEIPT OF APPROVAL AND RECOMMENDATION OF ACCEPTANCE FROM EACH REPRESENTATIVE.
- WHEREVER A DISCREPANCY IN QUANTITY OR SIZE OF MECHANICAL EQUIPMENT MATERIAL ARISES ON THE DRAWINGS AND/OR SPECIFICATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL MATERIAL AND SERVICES REQUIRED BY THE STRICTEST CONDITIONS NOTED ON DRAWINGS AND/OR IN THE SPECIFICATION TO ENSURE COMPLETE AND OPERABLE SYSTEMS.
- ALL PIPING INSULATION AND SEALING MATERIALS SHALL HAVE FLAME SPREAD RATING NOT EXCEEDING 25 AND SMOKE DEVELOPED RATING NOT EXCEEDING 50.
- BEFORE ORDERING ANY PIECE OF EQUIPMENT, THE CONTRACTOR SHALL PROVIDE EQUIPMENT SUBMITTALS, SHOP DRAWINGS WITH EQUIPMENT DIMENSIONS, AND SITE CLEARANCE AVAILABLE. WHERE REQUIRED BY SPACE LIMITATIONS HAVE UNITS SHIPPED IN SECTIONS.
- SANITARY VENTS TO BE 10'-0" FROM ANY AND ALL FRESH AIR INTAKES, FAN DISCHARGE OR HEATING EQUIPMENT.
- ALL PIPE BRANCH CONNECTIONS SHALL OFF-SET. NO "BULL HEAD" CONNECTIONS WILL BE ALLOWED.
- ALL EXISTING PLUMBING LINES SHOWN ARE TAKEN FROM EXISTING DRAWINGS WHICH INDICATE APPROXIMATE LOCATION ONLY. THE CONTRACTOR IS TO INCLUDE IN HIS BID TO PERFORM FIELD INVESTIGATION TO PIN POINT THE EXACT LOCATION AS REQUIRED FOR DEMOLITION OR MAKING NEW CONNECTION.
- INTERRUPTION OF EXISTING SERVICES: THE CONTRACTOR'S ATTENTION IS CALLED TO THE PRESENCE OF EXISTING, CONDUIT, PIPING, ETC. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE PROPER AND APPROVED REPAIR OF ANY AND ALL DAMAGE BY HIM OR HIS CAUSED WORK TO EXISTING BUILDINGS, CONDUIT, PIPING, PLANTS, ETC. NEW WORK AND INSTALLATIONS SHALL BE MADE WITH MINIMAL INTERRUPTIONS OF SERVICES TO EXISTING BUILDINGS ANY INTERRUPTIONS REQUIRED SHALL BE SCHEDULED TO MINIMIZE INCONVENIENCE TO THE OWNER, AND AT TIMES AS APPROVED IN ADVANCE BY THE ARCHITECT. NEW WORK AND INSTALLATIONS SHALL NOT IMPAIR THE PROPER FUNCTIONING OF THE EXISTING FACILITY. THE COMPLETED PROJECT SHALL BE A PROPERLY FUNCTIONING ENTITY THROUGHOUT. FURNISH ALL LABOR AND MATERIALS REQUIRED TO RELOCATE, REMOVE, REINSTALL, RECONNECT, REPLACE, ETC., ANY EXISTING PIPING TO ACCOMMODATE THE WORK. MATERIALS SHALL BE AS SPECIFIED UNLESS OTHERWISE APPROVED IN WRITING BY THE ARCHITECT. CONTRACTOR SHALL INCLUDE IN HIS BID ANY EXTRA WORK REQUIRED TO MINIMIZE SHUTDOWN TIME.
- WHERE EQUIPMENT IS NOTED AND/OR SHOWN TO BE REMOVED AND/OR RELOCATED, THIS REMOVAL AND/OR RELOCATION SHALL INCLUDE ALL PIPING, SUPPORT, TRIM, ETC. CONSIDERED TO BE A FUNCTIONING PART OF THE ITEM.
- ALL EXISTING PIPING AND EQUIPMENT THAT IS REMOVED SHALL BE DISPOSED OF AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY, AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY REAL OR ALLEGED, IN CONNECTION WITH PERFORMANCE OF WORK ON THIS PROJECT.
- CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING WALLS, FLOORS AND CEILING OPENED DURING CONSTRUCTION TO MATCH EXISTING.
- ALL UTILITIES BEING REMOVED FOR THE PROJECT SHALL BE REMOVED BACK TO ITS SOURCE.
- UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBER SHALL BE CUT, DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DISTRICT STRUCTURAL ENGINEER FROM THE DIVISION OF THE STATE ARCHITECT.
- ALL PIPING AND RELATED VALVES AND FITTINGS TO BE DEMOLISHED SHALL BE DISPOSED AND REMOVED FROM THE PROJECT SITE.
- ALL PIPING SHOWN TO BE DEMOLISHED AND/OR REMOVED SHALL BE CAPPED OFF AT THE POINT OF DEMOLITION AND CLEAR FROM INTERFERENCE FROM NEW WORK BEING INSTALLED.
- ANY DISCREPANCIES ARISE BETWEEN THE PLUMBING DRAWINGS AND OTHER DISCIPLINES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BID AND CONSTRUCTION.
- PROVIDE INSULATION FOR ALL CONDENSATE DRAIN INDOOR.
- ALL CONDENSATE DRAIN PIPING SHALL SLOPE 1/8"FT. MINIMUM.

LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
— — — — —	CW	COLD WATER
— CD — — — — —	CD	CONDENSATE DRAIN
— OCD — — — — —	OCD	OVERFLOW CONDENSATE DRAIN
— TP — — — — —	TP	TRAP PRIMER
— G — — — — —	G	GAS LINE
→		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	CLEANOUT
○		RISER UP
◐		RISER DOWN
	ABV	ABOVE
	BEL	BELOW
	CLG	CEILING
	CONT	CONTINUATION
	DN	DOWN
	EXIST	EXISTING
	FLR	FLOOR
●	POC	POINT OF CONNECTION
○		DEMOLITION KEYNOTE
◊		REMODEL KEYNOTE
●		POINT OF DISCONNECT
●		POINT OF CONNECTION

PIPE MATERIAL SCHEDULE

SERVICE	ABBR.	INDOOR	OUTDOOR	MATERIAL	REMARKS
CONDENSATE DRAIN	(CD)			SEAMLESS COPPER TUBING	GRAVITY @ 1% SLOPE MIN. PROVIDE INSULATION FOR INDOOR PIPING. PAINTED W/ UV INHIBITOR FOR EXPOSED OUTDOOR PIPE.
GAS	(G)			TYPE L, DRABN, TEMP. AS PER MSS	
				COPIC SOFT RED PAINTED WITH UV PROTECTION	
				COPPER TYPE M	
				GAS SOLIDAPS	
				BLACK STEEL SCH 40	

SHEET INDEX

S.NO.	SHEET No.	SHEET TITLE
1	P-0.1	PLUMBING GENERAL NOTES AND LEGEND
2	PD-1.1	PLUMBING DEMO FIRST FLOOR PLAN - BUILDING H
3	PD-1.2	PLUMBING DEMO SECOND FLOOR PLAN - BUILDING H
4	PD-1.3	PLUMBING DEMO ROOF PLAN - BUILDING H
5	P-1.1	PLUMBING FIRST FLOOR PLAN - BUILDING H
6	P-1.2	PLUMBING SECOND FLOOR PLAN - BUILDING H
7	P-1.3	PLUMBING ROOF PLAN - BUILDING H
8	P-4.1	PLUMBING DETAILS

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REGISTERED PROFESSIONAL ENGINEER
No. 929253
Exp. 6/30/27
MECHANICAL
STATE OF CALIFORNIA

PROJECT NAME:

WILL ROGERS ELEMENTARY SCHOOL
LYNWOOD UNIFIED SCHOOL DISTRICT
11220 DUNCAN AVENUE
LYNWOOD, CALIFORNIA, 90262

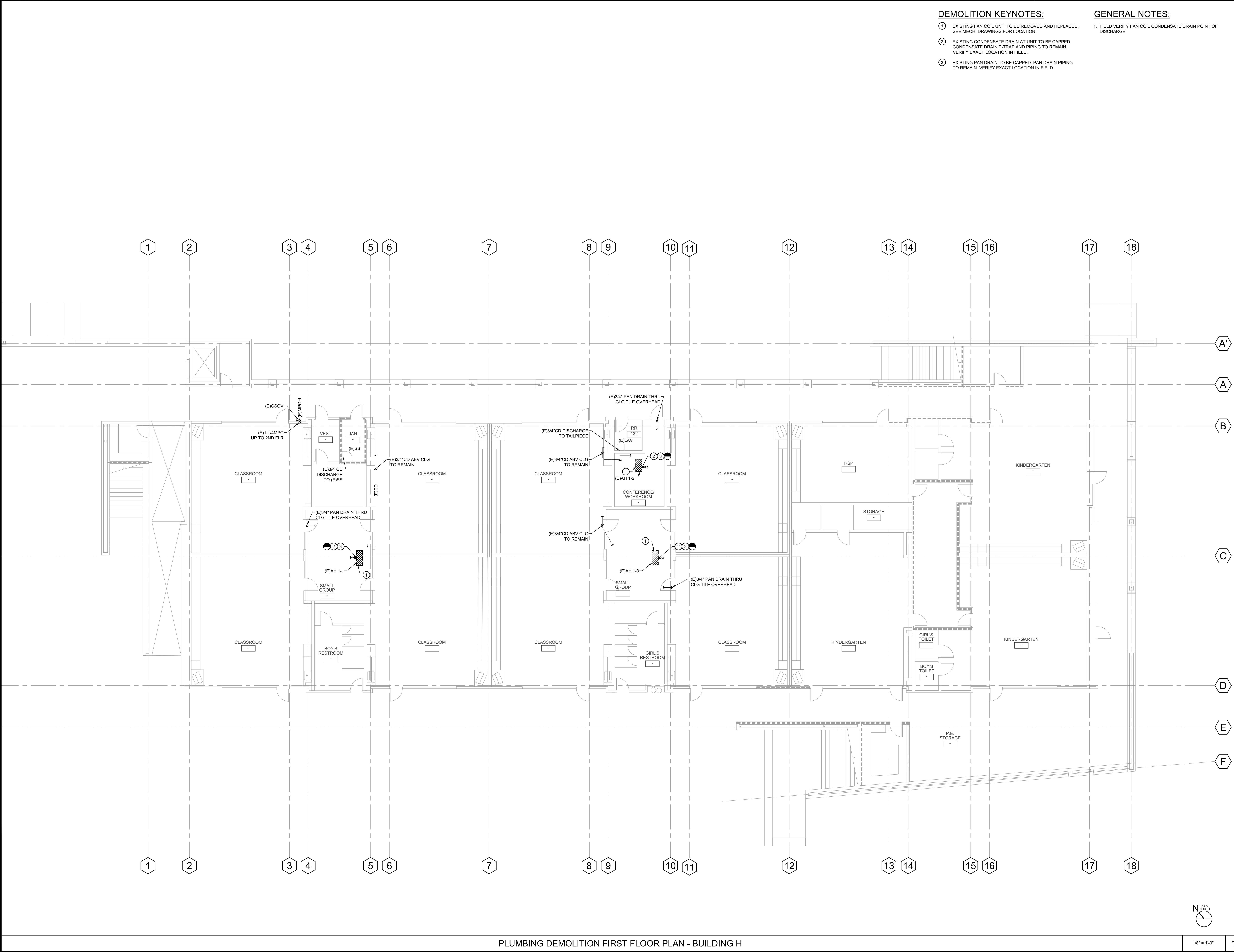
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SHEET DESCRIPTION:
PLUMBING
GENERAL NOTES
& LEGENDS

STAMP

SHEET NO:
P-0.1



DEMOLITION KEYNOTES:

- 1. EXISTING FAN COIL UNIT TO BE REMOVED AND REPLACED. SEE MECH. DRAWINGS FOR LOCATION.
- 2. EXISTING CONDENSATE DRAIN AT UNIT TO BE CAPPED. CONDENSATE DRAIN P-TRAP AND PIPING TO REMAIN. VERIFY EXACT LOCATION IN FIELD.
- 3. EXISTING PAN DRAIN TO BE CAPPED. PAN DRAIN PIPING TO REMAIN. VERIFY EXACT LOCATION IN FIELD.

GENERAL NOTES:

- 1. FIELD VERIFY FAN COIL CONDENSATE DRAIN POINT OF DISCHARGE.

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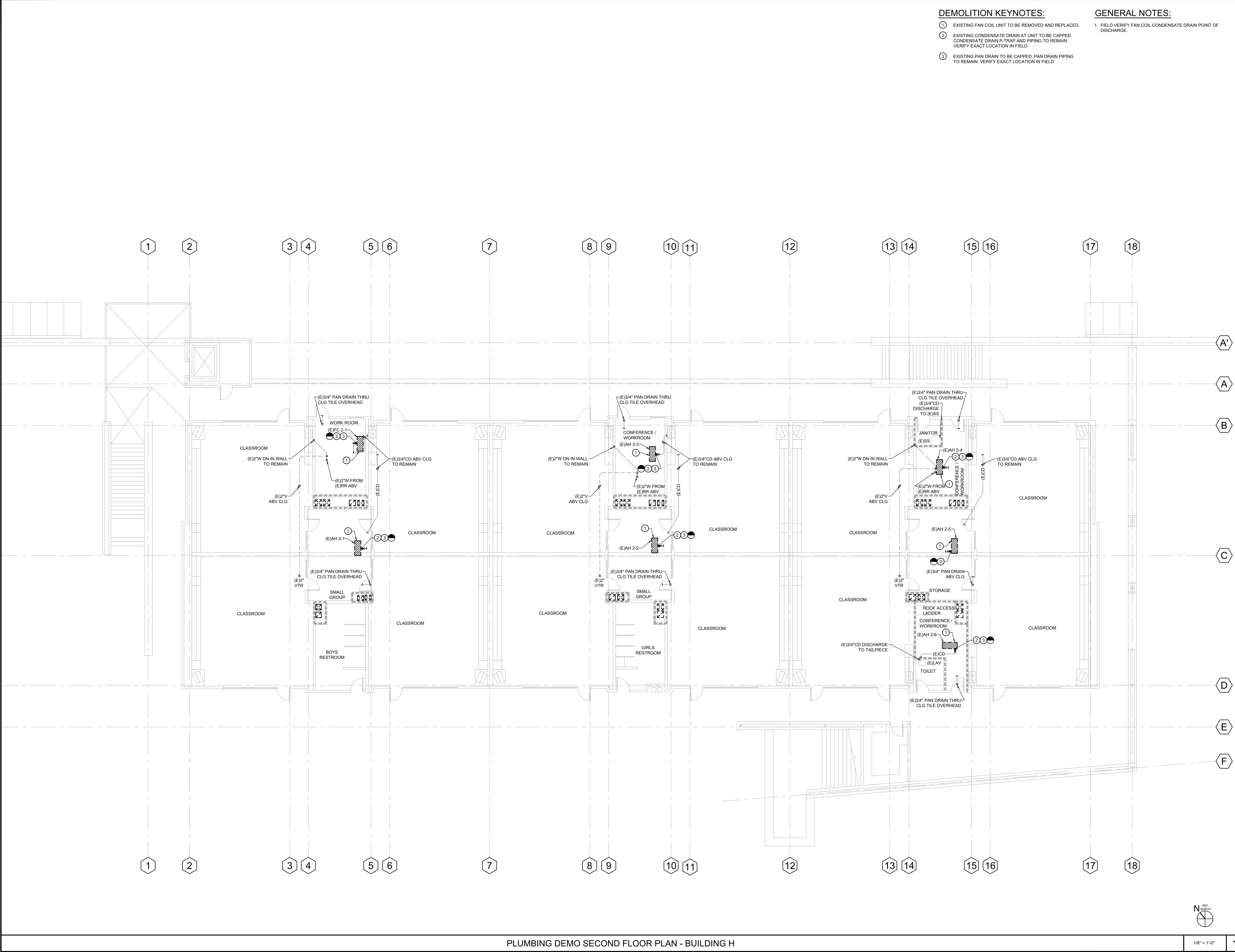
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CONSULTANT			

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SHEET DESCRIPTION:
PLUMBING
DEMO FIRST
FLOOR PLAN -
BUILDING H

SHEET NO:
PD-1.1





DEMOLITION KEYNOTES:

- 1. EXISTING FAN COIL UNIT TO BE REMOVED AND REPLACED.
- 2. EXISTING CONDENSATE DRAIN AT UNIT TO BE CAPPED. CONDENSATE DRAIN P-TRAP AND PIPING TO REMAIN. VERIFY EXACT LOCATION IN FIELD.
- 3. EXISTING PAN DRAIN TO BE CAPPED. PAN DRAIN PIPING TO REMAIN. VERIFY EXACT LOCATION IN FIELD.

GENERAL NOTES:

- 1. FIELD VERIFY FAN COIL CONDENSATE DRAIN POINT OF DISCHARGE.

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ENGINEER: OED			
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SHEET DESCRIPTION:
PLUMBING
DEMO SECOND
FLOOR PLAN -
BUILDING H

SHEET NO:

PD-1.2



- DEMOLITION KEYNOTES:
- 1 (E) MECHANICAL UNIT TO BE REMOVED AND REPLACED.
 - 2 (E) GAS FLEX LINE TO MECH. UNIT TO BE REMOVED. CAP EXISTING GAS PIPING AT UNIT.
 - 3 (E) CONDENSATE DRAIN WITH VENTED P-TRAP TO BE REMOVED. CAP EXISTING CONDENSATE AT UNIT.

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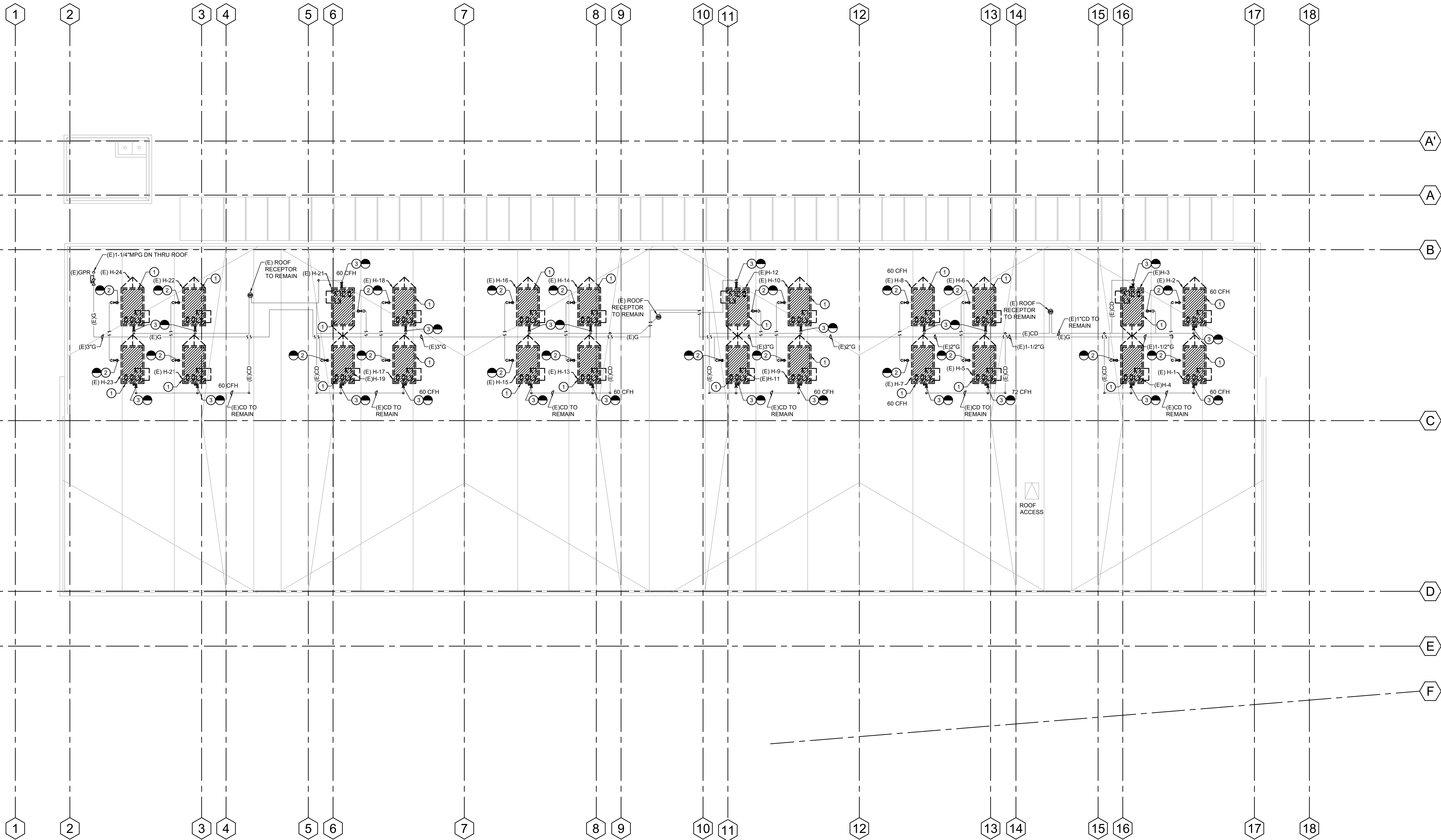
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SHEET DESCRIPTION:
PLUMBING
DEMO ROOF
PLAN -
BUILDING H

SHEET NO: PD-1.3





- PLUMBING KEYNOTES:
- 1

NEW FAN COIL UNIT. SEE MECHANICAL DRAWINGS FOR EXACT LOCATION.
- 2

PROVIDE NEW SECONDARY 3/4"CD CONNECTION TO FAN COIL UNIT WITH DRAIN PAN ABOVE CEILING. SEE SHEET P-4.1 DETAIL NUMBER 1.
- 3

RECONNECT 3/4"CD TO EXISTING P-TRAP AT NEW FAN COIL UNIT.
- 4

ROUTE SECONDARY DRAIN AND PAN DRAIN AND TURN DOWN THRU CLG OVERHEAD.
- GENERAL NOTES:
1.

ALL CONDENSATE DRAIN PIPING TO SLOPE AT 1% MIN.
2.

FIELD VERIFY FAN COIL CONDENSATE DRAIN POINT OF DISCHARGE
3.

ALL EQUIPMENT, PIPING AND MATERIALS SHALL BE LISTED.
4.

PROVIDE CONDENSATE PUMP IF NEEDED.

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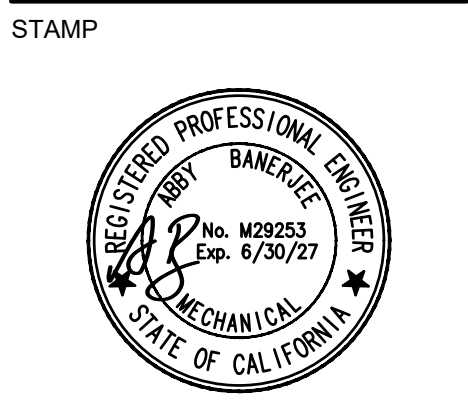
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SHEET DESCRIPTION:

PLUMBING
FIRST FLOOR
PLAN -
BUILDING H

SHEET NO:

P-1.1



- PLUMBING KEYNOTES:**

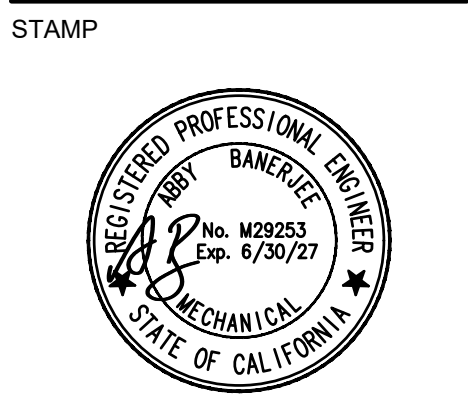
 - 1 NEW FAN COIL UNIT. SEE MECHANICAL DRAWINGS FOR EXACT LOCATION.
 - 2 PROVIDE NEW PRIMARY AND SECONDARY 3/4"CD CONNECTION TO FAN COIL UNIT WITH DRAIN PAN ABOVE CEILING.
 - 3 3/4"CD PLUG & VENTED P-TRAP TO FAN COIL UNIT. SEE SHEET P-4.1 DETAIL NUMBER 1.
 - 4 CONNECT 3/4"CD TO EXISTING CONDENSATE DRAIN ABV CLG. VERIFY EXACT LOCATION IN FIELD.
 - 5 ROUTE SECONDARY DRAIN AND PAN DRAIN AND TURN DOWN THRU CLG OVERHEAD.
- GENERAL NOTES:**

 - 1. ALL CONDENSATE DRAIN PIPING TO SLOPE AT 1% MIN.
 - 2. FIELD VERIFY FAN COIL CONDENSATE DRAIN POINT OF DISCHARGE
 - 3. ALL EQUIPMENT, PIPING AND MATERIALS SHALL BE LISTED.
 - 4. PROVIDE CONDENSATE PUMP IF NEEDED.

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SHEET DESCRIPTION:

PLUMBING
SECOND
FLOOR PLAN -
BUILDING H

SHEET NO:

P-1.2

CONSTRUCTION KEYNOTES:

- 1 NEW MECHANICAL UNIT. SEE MECHANICAL DRAWINGS FOR EXACT LOCATION.
- 2 CONNECT NEW GAS PIPING TO EXISTING GAS PIPING AT MECH. UNIT WITH DRIP LEG 6-INCH MINIMUM. UNION AND APPROVED GAS FLEX LINE. SEE SHEET P4.1 DETAIL NUMBER 3. VERIFY EXACT LOCATION AND SIZE IN FIELD.
- 3 CONNECT NEW 3/4"CD PLUG & VENTED P-TRAP AT UNIT. SEE SHEET P-4.1 DETAIL NUMBER 1. SLOPE CONDENSATE DRAIN @ 1%.
- 4 1"CD SPILL OVER EXISTING ROOF RECEPTOR WITH 2" AIR GAP MINIMUM.

CONSTRUCTION NOTES:

1. COORDINATE WITH OTHER TRADES PRIOR TO THE INSTALLATION OF THE ROOF TOP UNITS. VERIFY IF EXISTING GAS PIPING NEEDS TO BE REROUTED TO ACCOMMODATE THE INSTALLATION OF THE NEW MECH UNITS.
2. FIELD VERIFY EXISTING GAS PIPING LOCATION AND SIZE.
3. ALL EQUIPMENT, PIPING AND MATERIALS SHALL BE LISTED.

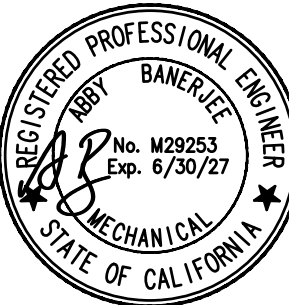
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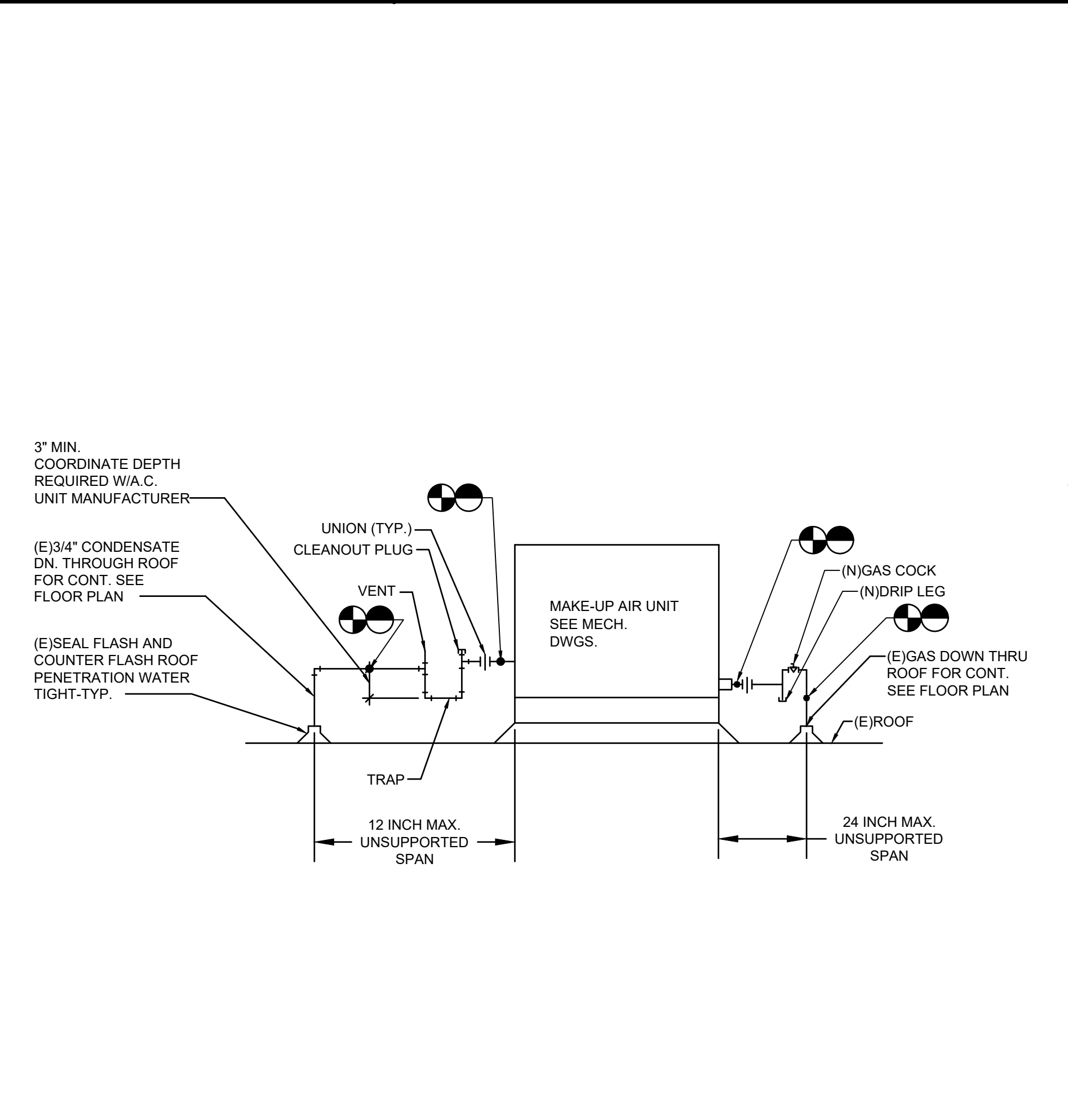
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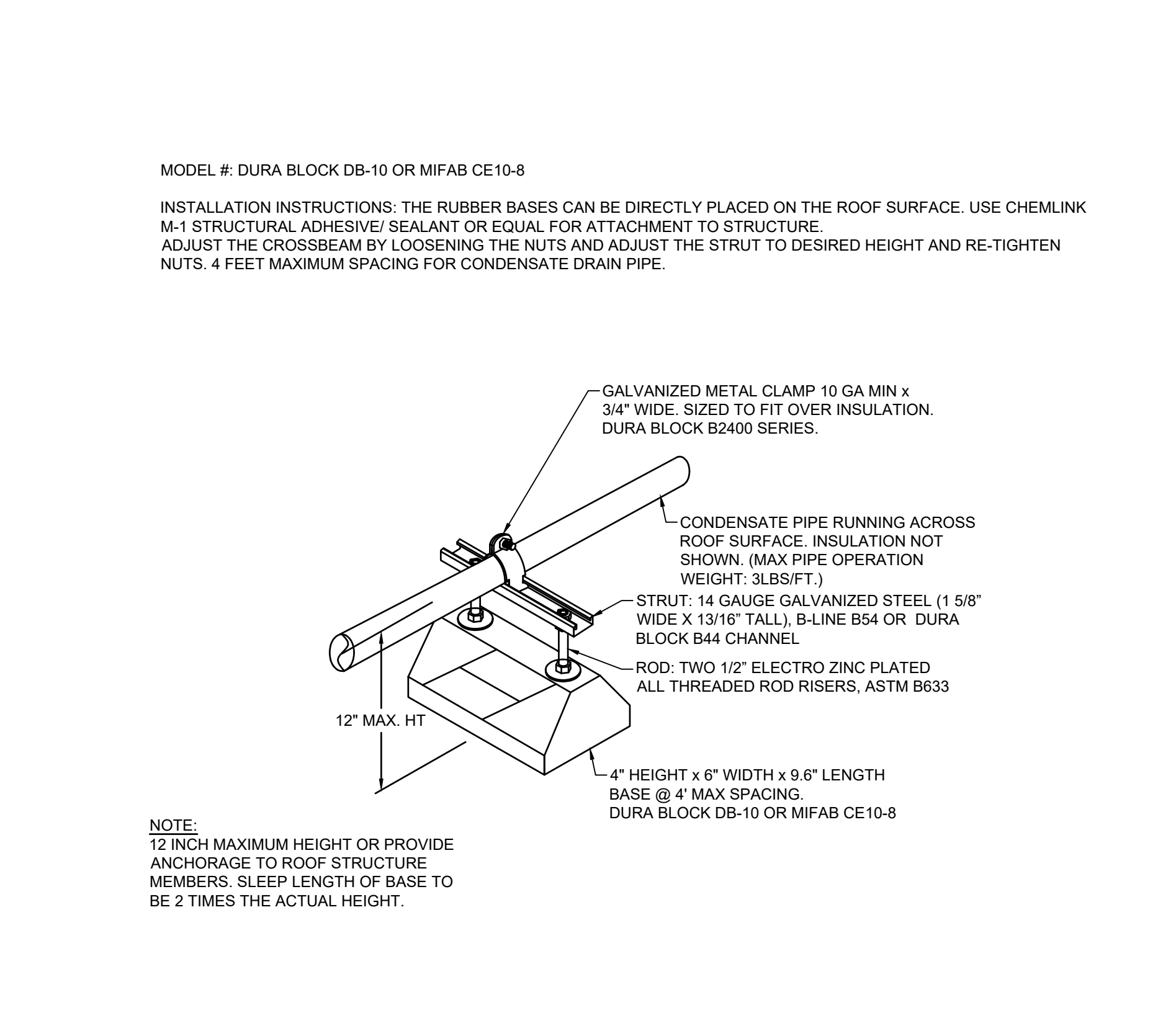
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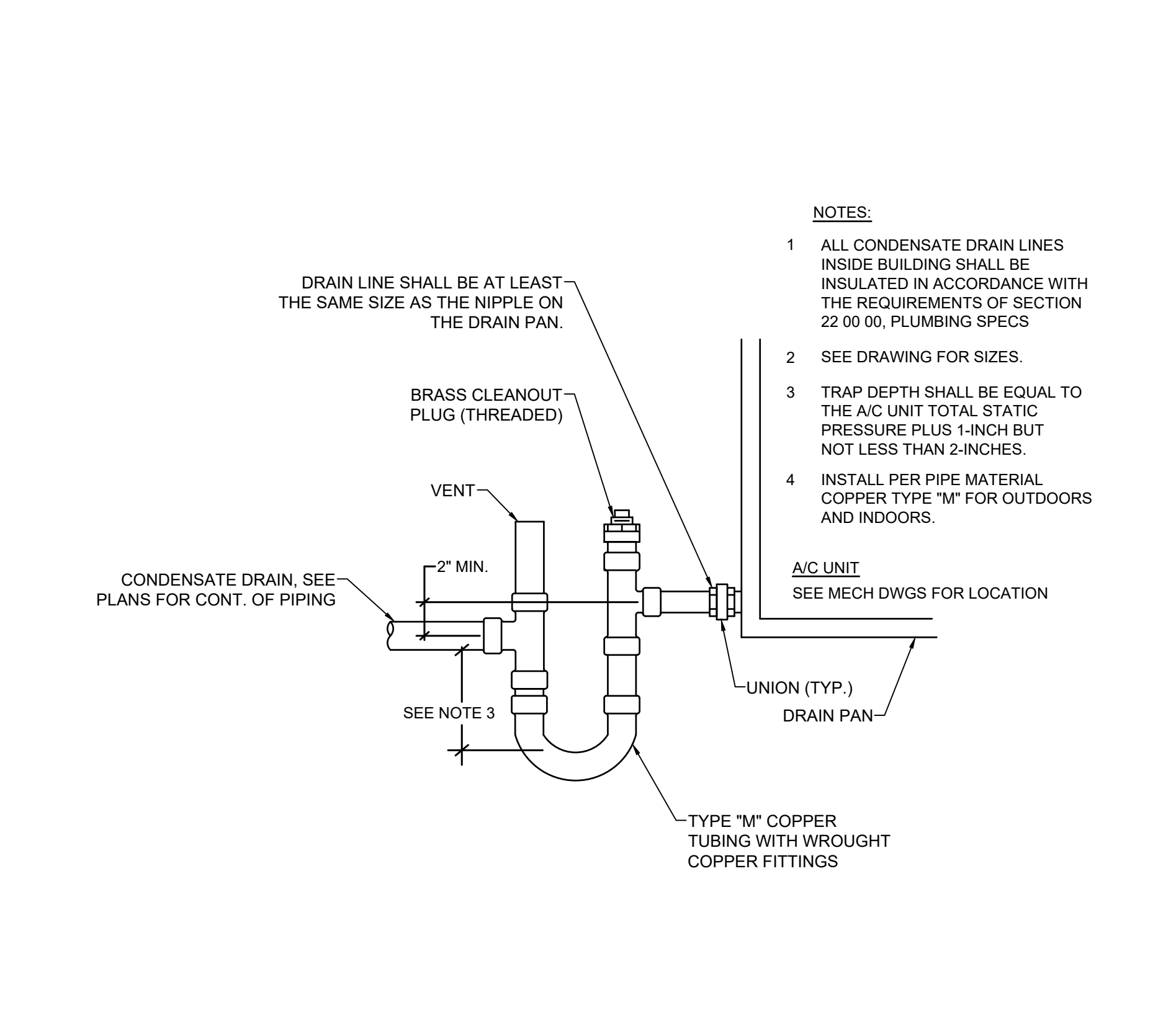
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GAS & CD CONNECTIONS OF MECH UNIT ON ROOF



CONDENSATE DRAIN PIPE SUPPORT ON ROOF DETAIL



CONDENSATE TRAP DETAIL

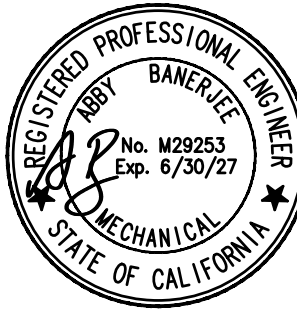
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DRAWN: ZF

CHECK: HL

ARCHITECT:

ENGINEER: OED

DSA NUMBER: 03-125978

CONSULTANT

STAMP

SHEET DESCRIPTION:
**PLUMBING
DETAILS**

SHEET NO:

P-4.1