BLANDFORD ES KITCHEN MODERNIZATION

for ROWLAND UNIFIED SCHOOL DISTRICT

CO-AR PROJECT NO.: 202310 PTN: 73452-192 DSA A# 03-124069

GENERAL ABBREVIATIONS AND SYMBOLS GALVANIZED **ANGLE** S.C.D. GRAB BAR S.D. GALVANIZED IRON **CENTERLINE** SECT GLASS DIAMETER OR ROUND GND. GROUND GR. GRADE SHR POUND OR NUMBER **GYPSUM** SHT. GYP. WBD. GYPSUM WALLBOARD AIR CONDITIONING **HOSE BIBB** H.B. **ASPHALTIC CONCRET** S.M.S. **HOLLOW CORE HARDWARE** S.N.D. HDWD. HARDWOOD S.N.R. **HOLLOW META** SPEC. **HORIZONTAL AGGREGAT ALUMINUN** HEIGHT **ALTERNA** STA STD. STL **INSIDE DIAMETER (DIM.)** STOR. STRUCT. INTERIOR INVERT SUSP. SYM. JAN. JANITOR BLOCK BLOCKING KNOCKOU **BENCH MARI** BEAM I ABORATORY BETWEEN LAVATORY **BOTH WAYS** POUND T.O.M. LINEAR FOOT/FEET LIB. CATCH BASIN LKR. LOCKER **CONCRETE BLOCK** ANCHORAG MACH. **MATERIAL** MAXIMUN CH.BD. **CHALKBOARI** MEZZ. **MEZZANINE** T.W MEDICINE CABINET TYP MEDIUM DENSITY OVERLAY CONTROL JOINT MECH. MECHANICAL MEMB. **MEMBRANE** UG. MANUFACTURING CLR. CLEAR UNF. MANUFACTURER U.N.O. C.M.U. **CONCRETE MASONRY UNIT MANHOLF** CNTR. MIN. MINIMUM MIR. MIRROR CONCRETI MISC. MISCELLANEOUS VENT. CONNECTION MTD. VERT. MUL. CONSTRUCTION VEST. MTL. CONTINUOUS V.G.D.F V.I.F. (N) **CERAMIC T** VOL NORTH NATURAL CTR. CENTER NOT IN CONTRACT NO. OR # NUMBER COUNTERSINK **OBSCURE** ON CENTER OUTSIDE DIAMETER (DIM.) W.R. DIAGONA OWNER FURNISHED WSCT. DIMENSION CONTRACTOR INSTALLED DISPENSER **OWNER FURNISHED** W.W.F. OWNER INSTALLED OFF. DOOR OPENING OPNG. **OPENING** OPP. **OPPOSITE** ORIG. ORIGINAL DRY STANDPIPE DEEP TOOLED JOIN P.LAM. DRAWING PLAS. DRAWER PLYWD. PLYWOOD PNL. POL. POLISH EAST **EACH** PRCST. PRE-CAST **EXISTING COLD WATER** PRE-FINISHED STEEL FRAME EXPANSION JOIN POUNDS PER SQUARE INCH P.S.I. **ELEVATION ELECTRICAI** PAPER TOWEL DISPENSER **EMERGENCY** COMBINATION PAPER TOWEL **ENCLOSURE** DISPENSER & RECEPTACLE ELECTRICAL PANELBOARD PARTITION PAPER TOWEL RECEPTACLE EQPT. Q.T. **QUARRY TILE** EXPO. RADIUS **EXTERIOR ROOF DRAIN** E.W.C. **ELECTRIC WATER COOLER** REFERENCE REFRIGERATOR REGISTER FLOOR DRAIN REINF. REINFORCED **FOUNDATION** REQ'D. REQUIRED RESIL. RESILIENT ROUND HEAD MACHINE BOLT FIRE HYDRANT R.H.W.S. ROUND HEAD WOOD SCREW FIRE HOSE CABINET FLAT MACHINE SCREW FLAT HEAD WOOD SCREW ROUND OPENING REDWOOD FIXTURE FLOW LINE FLASHING FLOOR FLUORESCENT **FACE OF CONCRETE** FACE OF FINISH FACE OF MASONRY F.O.S. FACE OF STUDS

FIREPROOF

FIRE RATED

FLOOR SINK

FUTURE

FOOT OR FEET

	APPL	ICABLE CODES
SOUTH	ALL WORK DED	TAINING TO AND ALL MATERIALS SUPPLIED FOR EXECUTING AND COMPLETIN
SOLID CORE	•	TAINING TO AND ALL MATERIALS SUPPLIED FOR EXECUTING AND COMPLETING SHALL COMPLY WITH PROVISIONS SPECIFIED IN THE CONTRACT
SEAT COVER DISPENSER		AND WITH ALL APPLICABLE LAWS, REGULATIONS AND ORDINANCES
SOAP DISPENSER		ORK INCLUDING, BUT NOT NECESSARILY LIMITED TO THOSE OF:
SECTION		
SQUARE FOOT/FEET	2022	CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 2
SHELF		C.C.R.
SHOWER		C.C.N.
SHEET	2022	CALIFORNIA BUILDING CORE (CRC) BARTO TITLE OA C CR
SIMILAR	2022	CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
SAWED (CONTROL) JOINT		(2021 INTERNATIONAL BUILDING CODE AND CALIFORNIA AMENDMENTS)
SHEET METAL SCREW		
SANITARY NAPKIN DISPENSER	2022	CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
SANITARY NAPKIN RECEPTACLE		(2020 NATIONAL ELECTRICAL CODE OF THE NATIONAL FIRE PROTECTION
SPECIFICATION		ASSOCIATION, NFPA, WITH CALIFORNIA AMENDMENTS)
SQUARE		ASSOCIATION, NITA, WITH CALIFORNIA AMENDMENTS)
SERVICE SINK	2022	CALIFORNIA MECHANICAL CORE (CMC) RARTA TITLE 24 C CR
STAINLESS STEEL STATION	2022	CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.
STANDARD		(2021 UNIFORM MECHANICAL CODE AND CALIFORNIA AMENDMENTS)
STEEL		
STORAGE	2022	CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
STRUCTURAL		(2021 UNIFORM PLUMBING CODE AND CALIFORNIA AMENDMENTS)
SUSPENDED		
SYMMETRICAL	2022	CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.
	2022	CALII OMNIA ENEMOT CODE, FAMTO, TITLE 24 C.C.M.
TOWEL BAR	2022	CALIFORNIA FIRE CORE BARTO TITLE 24 C C R
TOP OF CURB	2022	CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.
TOP OF CATCH BASIN		(2021 INTERNATIONAL FIRE CODE AND CALIFORNIA AMENDMENTS)
TELEPHONE		
TERRAZZO	2022	CALIFORNIA EXISTING BUILDING CODE, PART 10, TITLE 24 C.C.R.
TONGUE AND GROOVE		(2021 INTERNATIONAL EXISTING BUILDING CODE AND CALIFORNIA
THICK		AMENDMENTS)
TOP OF CONCRETE		-,
TOP OF MASONRY	2022	CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24 C.C.R.
TOP OF STEEL TOP OF PLATE/PARAPET	2022	CALII ONNIA GREEN BOILDING STANDARDS CODE, FART 11, 111LE 24 C.C.R.
•		
TOP OF PAVEMENT TOILET PAPER DISPENSER	2022	CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 C.C.R.
TREAD	2022	CALIFORNIA BUILDING CODE (FOR SFM) REFERENCED STANDARDS CHAPTER
TOP OF SHEATHING		35
TELEVISION TOP OF WALL		
TYPICAL	NFPA 13-22	AUTOMATIC SPRINKLER SYSTEMS
TTTOKE	NFPA 14-19	STANDPIPE SYSTEMS
UNDER CUT	NFPA 20-19	STATIONARY PUMPS
UNDERGROUND		
UNFINISHED	NFPA 24-19	PRIVATE FIRE MAINS
UNLESS NOTED OTHERWISE	NFPA 25-13	CALIFORNIA EDITION-STANDARDS FOR WATER-BASED FIRE PROTECTION
URINAL		SYSTEMS
	NFPA 72 -22	NATIONAL FIRE ALARM CODE (CALIFORNIA AMENDED)
VINYL COMPOSITION TILES		(NOTE: SEE UL STANDARD 1971 FOR "VISUAL DEVICES")
VENTILATE(R)	NFPA 80-19	FIRE DOOR AND OTHER OPENING PROTECTIVES
VERTICAL	NFPA 253	CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS, 2015 EDITION
VESTIBULE		CLEAN AGENT FIRE EXTINGUISHING SYSTEMS
VERTICAL GRAIN DOUGLAS FIR	NFFA 2001-18	CLEAN AGENT FIRE EXTINGUISHING STSTEINS
VERIFY IN FIELD		
VOLUME	TITLE 19 CCR, P	PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
WEST		
WITH	APPLICABLE S	<u>TANDARDS</u>
WATER CLOSET		
WOOD	FOR A LIST OF	APPLICABLE STANDARDS, INCLUDING CALIFORNIA AMENDMENTS TO THE NF
WINDOW		EFER TO CBC CHAPTER 35 AND CFC CHAPTER 80.
WATER HEATER	31711103,11	
WITHOUT WATERPROOFING		
WATERPROOFING WATER RESISTANT		
WAIR RESISTANT		
WEIGHT		
WELDED WIRE FABRIC		
	i	

PROJECT TEAM ARCHITECT CONTACT: DENNIS J. LEE, R.A. C-29168 CO-AR DESIGN, INC. 680 BREA CANYON RD., STE. 178, DIAMOND BAR, CA 91789 DennisL@coardesign.com STRUCTURAL ENGINEER CONTACT: LES TSO, S.E. S-3073 HOHBACH-LEWIN, INC. PH. (626) 441-121 511 MISSION STREET, SOUTH PASADENA, CA 91030 MECH / PLUMB ENGINEER JHP ENGINEERING AND DESIGN SERVICES, INC. CONTACT: JIA PAN, P.E. M-35374 3103 INDEPENDENCE DRIVE, LIVERMORE, CA 94551 **ELECTRICAL ENGINEER** PACIFIC ENGINEERS GROUP CONTACT: ANTHONY FAJARDO, P.E. E-21979 1106-A W. MAGNOLIA BLVD., BURBANK, CA 91506 **GRAPHIC SYMBOLS BUILDING/WALL SECTION** CONSTRUCTION NOTE

ROOM NUMBER

DOOR NUMBER

─────── BREAK LINE

SPOT ELEVATION

RE CODE AND CALIFORNIA AMENDMENTS) JILDING CODE, PART 10, TITLE 24 C.C.R. KISTING BUILDING CODE AND CALIFORNIA DING STANDARDS CODE, PART 11, TITLE 24 C.C.R. STANDARDS CODE, PART 12, TITLE 24 C.C.R. ODE (FOR SFM) REFERENCED STANDARDS CHAPTER ANDARDS FOR WATER-BASED FIRE PROTECTION OF FLOOR COVERING SYSTEMS, 2015 EDITION NCLUDING CALIFORNIA AMENDMENTS TO THE NFPA 4. THE CONTRACTOR SHALL LEAVE THE WORK AREA CLEAN AND FREE OF DEBRIS AT THE END OF 5. PRIOR TO ANY NEW FIRE PROTECTION WORK AND/OR ALTERATIONS TO ANY EXISTING FIRE PH. (909) 598-0186 PH. (949) 409-2508

GENERAL NOTES ERIALS SUPPLIED FOR EXECUTING AND COMPLETING THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO THE SUBMISSION OF BID AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE WORKING CONDITIONS AND THE EXACT NATURE AND EXTENT OF THE WORK. HE SHALL VERIFY ALL DIMENSIONS AND CONDITIONS SHOWN ON DRAWINGS AND SHALL NOTIFY THE ARCHITECT OF ANY OMISSION AND/OR DISCREPANCIES AND OBTAIN A WRITTEN DECISION. SUBMISSION OF A BID ACKNOWLEDGES FULL RESPONSIBILITY FOR TANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 FURNISHING A COMPLETE AND FUNCTIONAL SYSTEM. NO CHANGES IN THE CONTRACT WILL BE ENTERTAINED TO ACCOMMODATE OR ALLOW EXTRA FUNDS FOR ANY OMISSION RESULTED FROM FAILURE TO THOROUGHLY EXAMINE THE SCOPE OF WORK. CONTRACTOR SHALL CONFIRM ALL SUBSTRATE CONDITIONS IN FIELD AT COMPLETION OF DEMOLITION, AND NOTIFY THE ARCHITECT, IN WRITING, OF ANY DEVIATION FROM THE CONDITIONS SHOWN IN THE DRAWINGS. THE CONTRACTOR SHALL ARRANGE FOR TIMELY INSPECTIONS AT EACH STAGE OF WORK AS REQUIRED. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE RECOMMENDATIONS AND SPECIFICATIONS OF THE MANUFACTURER OF THE PRODUCT BEING USED FOR A COMPLETE AND PROPER INSTALLATION. DO NOT SCALE THE DRAWINGS. USE REFERENCED OR NOTED DIMENSIONS ONLY. LARGE SCALE DETAILS GOVERN OVER SMALLER SCALE DETAILS. WHERE NO SPECIFIC DETAIL IS SHOWN, THE CONSTRUCTION SHALL BE THE SAME AS THAT WHICH ALREADY EXISTS IN THE BUILDING.

- CONTRACTOR SHALL COORDINATE AND SCHEDULE ALL WORK BETWEEN THE DIFFERENT TRADES TO INSURE PROPER SEQUENCE OF WORK WHEREVER O.F.C.I. OR O.F.O.I. WORK IS
- ALL EQUIPMENT USED IN THIS PROJECT SHALL BEAR THE APPROVAL LABEL OF U.L. OR OTHER AGENCY-APPROVED TESTING LABORATORY ACCEPTABLE TO THE ARCHITECT.
- CONTRACTOR SHALL MAINTAIN A COMPLETE AND UPDATED SET OF BIDDING DOCUMENTS (i.e DRAWINGS AND SPECIFICATIONS) INCLUDING ALL APPROVED SHOP DRAWINGS, SUBMITTALS, CHANGE DIRECTIVES, AND RFI RESPONSES AT JOB SITE.
- UNLESS NOTED OTHERWISE, CONTRACTOR SHALL FURNISH SHOP DRAWINGS, EQUIPMENT OR MATERIAL SUBMITTAL, AND SPECIFICATIONS FOR REVIEW BY THE ARCHITECT, PRIOR TO FABRICATION OR DELIVERY OF SUCH EQUIPMENT OR MATERIAL.
-). THE EQUIPMENT MANUFACTURER OR PRODUCT BRAND SPECIFIED IS USED AS THE MINIMUM QUALITY AND STANDARD REQUIRED BY OWNER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE PROOF THAT THE SUBSTITUTION IS OF EQUAL OR BETTER QUALITY IF SUBSTITUTION IS PROPOSED. THE ARCHITECT'S REVIEW OF SUBSTITUTION REQUEST, BASED ON THE INFORMATION SUBMITTED, SHALL BE FINAL.
- NO EQUIPMENT OR MATERIAL CONTAINING HAZARDOUS MATERIAL AS DEFINED BY STATE OF CALIFORNIA SHALL BE USED IN THIS PROJECT.
- THE CONTRACTOR SHALL TAKE ALL MEASURES TO PROTECT AND SAFEGUARD ALL EXISTING BUILDING ELEMENTS AGAINST DAMAGE FROM INCLEMENT WEATHER CONDITIONS AND BY CONSTRUCTION OPERATIONS BOTH DURING JOB HOURS AND NON WORKING HOURS. IF DAMAGE SHOULD OCCUR TO THE EXISTING BUILDING AS A RESULT OF THE ABOVE, THE CONTRACTOR SHALL REPAIR, REPLACE AND CLEAN AT NO COST TO THE SCHOOL DISTRICT.
- 13. IF ANY EQUIPMENT OR UTILITY SHUTDOWN IS REQUIRED, THE CONTRACTOR SHALL GIVE NOTICE IN WRITING THE SCHOOL DISTRICT COORDINATOR NOT LESS THAN FIVE (5) WORKING DAYS PRIOR TO THE SHUTDOWN, U.N.O.
- EACH WORK DAY. UPON COMPLETION OF THE WORK HE SHALL REMOVE ALL SURPLUS MATERIALS, EQUIPMENT, AND DEBRIS INCIDENTAL TO THIS CONTRACT AND LEAVE THE PREMISES CLEAN AND ORDERLY. 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY SAFETY BARRIERS
- AND SHALL NOT BLOCK FIRE EXITS WITHOUT APPROVAL OF/AND COORDINATION BY THE SCHOOL DISTRICT AND FIRE AUTHORITIES.
- PROTECTION SYSTEM, THE CONTRACTOR MUST OBTAIN A PERMIT FROM THE STATE FIRE AS A CONDITION OF FINAL ACCEPTANCE AND FINAL PAYMENT, THE CONTRACTOR SHALL
- SUBMIT TO THE SCHOOL DISTRICT (1) CLEAN SET OF DRAWINGS INDICATING ALL CHANGES OR DEVIATIONS FROM THE CONTRACT SET OF DRAWINGS. THEY SHALL BE IDENTIFIED AS "RECORD" DRAWINGS AND SIGNED AND DATED BY THE CONTRACTOR. IN ADDITION, THE CONTRACTOR SHALL ALSO FURNISH (1) COMPLETE SET OF OPERATING AND MAINTENANCE INSTRUCTIONS INCLUDING PARTS MANUALS FOR ALL EQUIPMENT OF ALL TYPES BOUND IN A HARDBOARD BINDER AND INDEXED, AND AS NOTED IN SPECIFICATIONS.
- 8. CONTRACTOR SHALL NOT SAWCUT OR CORE DRILL A CONC. FLOOR, WALL, ROOF, OR CEILING WITHOUT FIRST SECURING THE APPROVAL FROM THE OWNER, ARCHITECT, CONSTRUCTION MANAGER AND DSA. ALL PENETRATIONS CAUSED BY THIS WORK SHALL BE TREATED FOR A TIGHT SEAL BY THIS CONTRACTOR USING A MATERIAL OF THE SAME INTEGRITY AS THE EXISTING WALLS OR FLOOR BEFORE PENETRATION.
- CONTRACTOR SHALL CONDUCT AT LEAST ONE WEEKLY SAFETY MEETING WITH HIS WORKERS, AND SHALL DILIGENTLY USE ANY OR ALL OTHER SAFEGUARDS TO PREVENT JOB RELATED HAZARDOUS CONDITIONS TO SCHOOL OCCUPANTS.
- . ALL MECHANICAL AND ELECTRICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION PER CALIFORNIA BUILDING CODE. WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE MECHANICAL OR ELECTRICAL ENGINEER AND THE FIELD REPRESENTATIVE OF THE DIVISION OF STATE ARCHITECT.
- CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND IRRIGATION AND UTILITY LINES WITHIN CONSTRUCTION AREA PRIOR TO COMMENCING WORK. CONTRACTOR SHALL BE RESPONSIBLE TO RE-ROUTE AND/OR CAP (E) IRRIGATION AND UTILITY LINES IN THE PROJECT
- 22. SEE CALIFORNIA FIRE CODE, CHAPTER 33 FOR FIRE SAFETY DURING CONSTRUCTION
- 23. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDA OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PARAGRAPH 1, TITLE 24, CCR.
- 24. A PROJECT INSPECTOR W/ CLASS 3 CERTIFICATION, EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.
- 25. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE SCHOOL BOARD SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
- 26. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CONSTRUCTION CHANGE DOCUMENT, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO, AND APPROVED BY THE DSA BEFORE PROCEEDING WITH THE WORK.

SCOPE OF WORK

ALTERATION TO EXISTING KITCHEN (300 S.F.) AT MULTI-PURPOSE BUILDING, A#03-21738

GROUP "A-3"

BUILDING DATA

(E) MULTI-PURPOSE BLDG 'MP' OCCUPANCY: **CONSTRUCTION TYPE:** FIRE SPRINKLER SYSTEM HEIGHT AND STORY:

BUILDING AREA: PROJECT AREA (KITCHEN):

300 S.F.

15'-4", 1 STORY (40', 1 STORY ALLOWED) 4,346 S.F. (6,000 S.F. ALLOWED)

A# 21738, 03-106514, 03-114852

DSA REQUIREMENTS

- 1. ALL WORK SHALL CONFORM TO 2022 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
- THERE ARE NO DEFERRED SUBMITTALS FOR THIS PROJECT.
- 3. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGED DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
- 4. A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.

INSPECTOR CLASS = 3

Test Technician (ATT).

submitted on or after October 1, 2021.

and pass the required acceptance criteria.

VICINITY MAP

engineer/architect of record or the owner's agent.

- 5. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
- 6. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR)
- 7. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

ENERGY CODE SECTION 10-103

newly installed equipment is operating and in compliance with the Energy Code.

The California Energy Code Section 10-103 requires Acceptance Testing on all newly installed

lighting controls, mechanical systems, envelopes, and process equipment after installation and

before project completion. An Acceptance Test is a functional performance test to help ensure that

Lighting controls acceptance tests must be performed by a certified lighting controls Acceptance

Mechanical system acceptance tests must be performed by a certified mechanical ATT for projects

Envelope and process equipment acceptance tests shall be performed by the installing contractor,

The Acceptance Testing procedures must be repeated, and deficiencies must be corrected by the

builder or installing contractor until the construction/installation of the specified systems conform

Project inspectors will collect the forms to confirm that the required Acceptance Tests have been

PROJECT

A listing of certified ATT can be found at: https://www.energy.ca.gov/programs-and-topics/

programs/acceptance-test-technician-certification-provider-program/acceptance.

SHEET INDEX

ARCHITECTURAL

- A-0.1 COVER SHEET A-1.1 SITE PLAN
- A-2.1 BUILDING MP PLAN
- A-2.2 DEMO & PROPOSED FLOOR PLANS & REFLECTED CEILING PLAN
- A-2.3 EQUIPMENT PLAN / FLOOR FINISH PLAN & SCHEDULES
- A-3.1 SECTIONS AND ELEVATIONS A-4.1 INTERIOR ELEVATIONS
- A-5.1 DETAILS

- S-1.1 GENERAL NOTES AND TYPICAL DETAILS S-1.2 TYPICAL LIGHT GAUGE DETAILS
- S-1.3 SECTIONS AND DETAILS

S-2.1 FOUNDATION AND ROOF FRAMING PLAN

- M-0.1 MECHANICAL NOTES, LEGENDS, INDEX, CODE AND SCOPE OF WORK & ABBREV.
- M-0.2 MECHANICAL CALCULATIONS AND SCHEDULES M-0.3 MECHANICAL DETAILS
- M-1.0 MECHANICAL REFLECTED CEILING PLAN DEMO M-1.1 MECHANICAL REFLECTED CEILING PLAN - NEW
- M-2.0 MECHANICAL ROOF PLAN

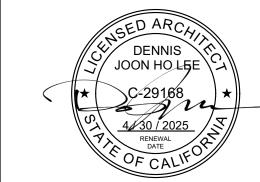
P-0.1 PLUMBING GENERAL NOTES, SCOPE OF WORK, CODE, INDEX AND STATEMENT

- P-0.2 SCHEDULES, CALCULATIONS AND TABLES
- P-0.3 PLUMBING DETAILS
- P-1.0 PLUMBING DEMOLITION PLAN P-1.1 PLUMBING PLAN - NEW
- P-2.0 PLUMBING ROOF PLAN

ELECTRICAL

- E-1.1 ELECTRICAL SYMBOL LIST, NOTES, DETAIL AND PANEL SCHEDULE E-1.2 TITLE 24 - INDOOR
- E-2.1 DEMOLITION, LIGHTING & PHOTOMETRIC PLANS
- E-2.2 POWER & SIGNAL PLANS
- FA-1.1 FIRE ALARM PLAN

TOTAL: 29 SHEETS



DSA APPROVAL STAMP

APP: 03-124069 INC:

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITE

REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹

DESIGNS SHOWN AND DESCRIBED HERIN INCLUDING ALL

USED BY THE OWNER ON OTHER PROJECTS, FOR ADDITIONS T THIS PROJECT, OR FOR COMPLETION OF THIS PROJECT BY OTHE THE OWNER AGREES TO HOLD HARMLESS, INDEMNIFY AND DEFEND THE ARCHITECT AGAINST ALL DAMAGES, CLAIMS AND LOSSES, INCLUDING DEFENSE COSTS, ARISING OUT OF ANY REUS

OF THE PLANS AND SPECIFICATIONS WITHOUT THE WRITTEN

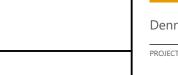
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AUTHORIZATION OF THE ARCHITECT OF RECORD.

STRUCTURAL TESTS / SPECIAL INSPECTIONS

Epoxy shear dowels in site flatwork and/or other non-structural concrete.

WORK EXEMPT FROM DSA REQUIREMENTS FOR



DEFERRED SUBMITTALS

NO DEFERRED SUBMITTALS.

STATEMENT OF GENERAL CONFORMANCE

FOR ARCHITECTS/ENGINEERS WHO UTILIZE PLANS INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED **DESIGN PROFESSIONALS AND/OR CONSULTANTS** (Application No. <u>03-124069</u> File No. <u>19-92</u>)

✓ The drawings or sheets listed on the cover or index sheet ☐ This drawing, page of specifications/calculations

have been prepared by other design professionals or consultants who are licensed and/or authorized to prepare such drawings in this state. It has been examined by me for:

1) Design intent and appears to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications prepared by me, and 2) Coordination with my plans and specifications and is acceptable for incorporation into

The Statement of General Conformance "shall not be construed as relieving me of my rights, duties, and responsibilities under Sections 17302 and 81138 of the Education Code and Sections 4-336, 4-341 and 4-344" of Title 24, Part 1. (Title 24, Part 1, Section 4-317 [b])

nd that:	✓ All drawings or sheets lis	sted on the cover or index sheet
esign intent, and	ordinated with the project	 □ is/are in general conformance with the project design intent, and □ has/have been coordinated with the project plans and specifications.

I find that:	✓ All drawings or sheets	isted on the cover or index	sheet
	☐ This drawing or page		
is/are in general of design intent, and has/have been co plans and specific		design intent, and	formance with the project ons.
· Lagru	3/25/2024	_	
ignature	Date	Signature	Date
rchitect or Engine eneral responsible ennis J. Lee	er designated to be in e charge	Architect or Engineer for this portion of the	
rint Name		Print Name	
int italiio		- Time Hamile	
-29168	4/30/2025		
icense Number	Expiration Date	License Number	Expiration Date



Dennis J. Lee, NCARB dennisl@coardesign.com



BLANDFORD ES KITCHEN MODERNIZATION

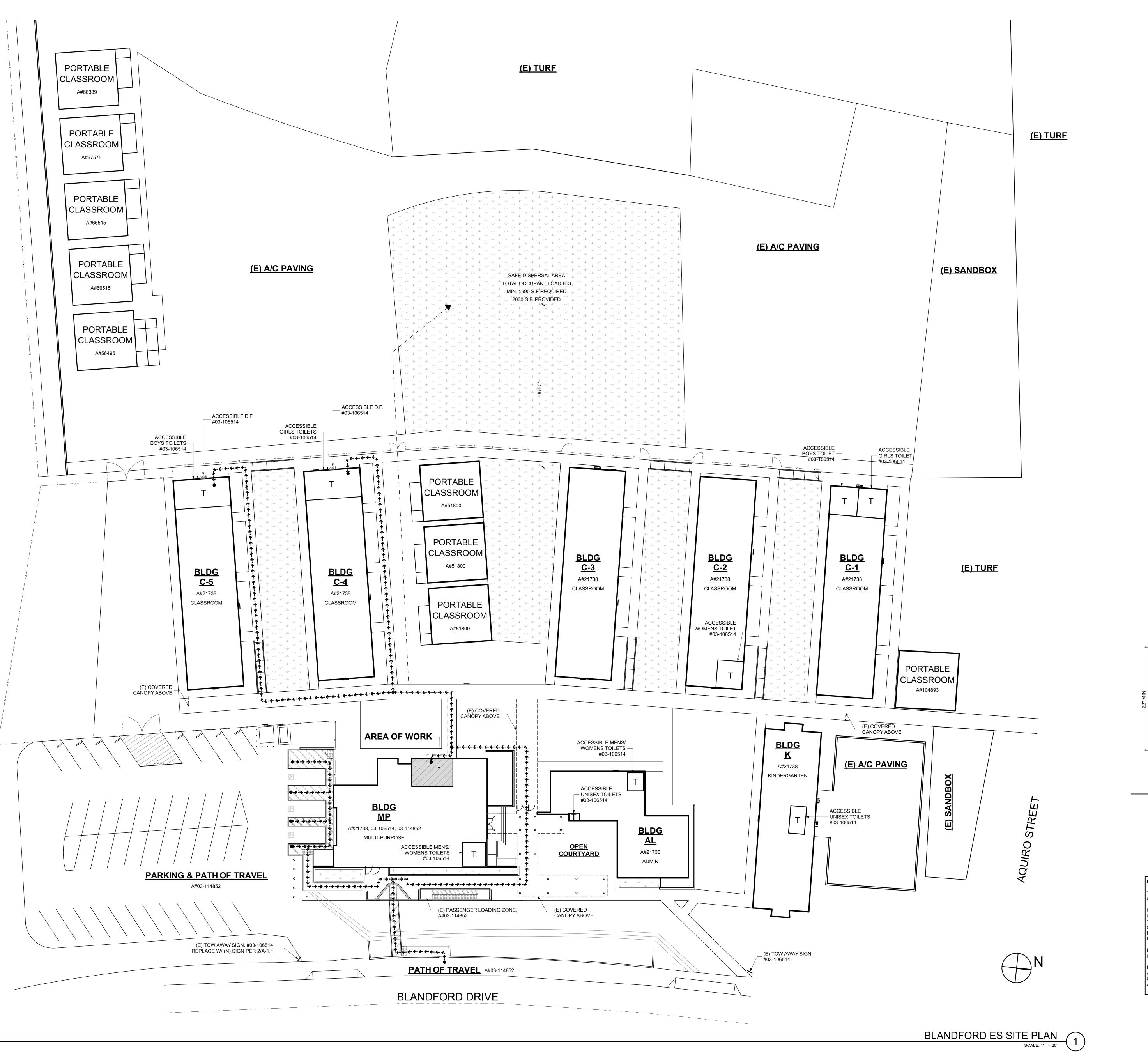
2601 BLANDFORD DRIVE ROWLAND HEIGHTS, CA 91748

ROWLAND UNIFIED SCHOOL DISTRICT 1830 NOGALES STREET

ROWLAND HEIGHTS, CA 91748 DSA PROGRESS UPLOAD 1/30/2024 4 DSA SUBMITTAL 3/4/2024

5 DSA SUBMITTAL V2 4/2/2024

COVER SHEET



KEY NOTES (FOR THIS SHEET ONLY U.N.O.)

- 01. (E) CHAIN LINK FENCE ······×
- 02. (E) CHAIN LINK FENCE GATE
- 03. (E) CHAIN LINK SLIDING GATE
- 04. (E) METAL FENCE 05. (E) METAL FENCE SLIDING GATE
- 06. PROPERTY LINE - - - —

LEGEND (FOR THIS SHEET ONLY U.N.O.)

A#03-114852

◆→→→→→→→ ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER-FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" IF BEVELED AT 1:2 MAX SLOPE OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAX AND AT LEAST 48" IN WIDTH. SURFACE IS STABLE FIRM, AND SLIP RESISTANT. CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED. ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM, AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80". ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.

г----₋

SAFE DISPERSAL AREA

← − − − PATH OF EXIT DISCHARGE

DSA A# CERTIFICATION

MULTI-PURPOSE BUILDING 'MP'

A# 03-114852

CLOSED W/ CERTIFICATION CLOSED W/ CERTIFICATION

10/8/2009 3/8/2017

- BLUE OR WHITE BACKGROUND UNAUTHORIZED VEHICLES PARKED IN DESIGNATED ACCESSIBLE SPACES NOT DISPLAYING DISTINGUISHING - 1" HIGH LETTERS (CONTRASTING PLACARDS OR SPECIAL LICENSE PLATES ISSUED FOR PERSONS WITH DISABILITIES SIGN AT 80" HIGH, POLE WILL BE TOWED AWAY AT THE MOUNTED OWNER'S EXPENSE. TOWED VEHICLES MAY BE RECLAIMED AT:

NOTE: CONTRACTOR SHALL OBTAIN ADDRESS / PHONE NO. FROM OWNER'S OR BY TELEPHONING REPRESENTATIVE PRIOR TO FABRICATION AND INCLUDE AS A PERMANENT PART OF SIGN

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENTS

THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMETS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENT COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NONCOMPLIANT) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NON COMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMIATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE Construction tolerances, they shall be brought into compliance with the CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

IDENTIFICATION STAMP

DSA APPROVAL STAMP

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BLANDFORD ES KITCHEN MODERNIZATION

2601 BLANDFORD DRIVE

ROWLAND HEIGHTS, CA 91748

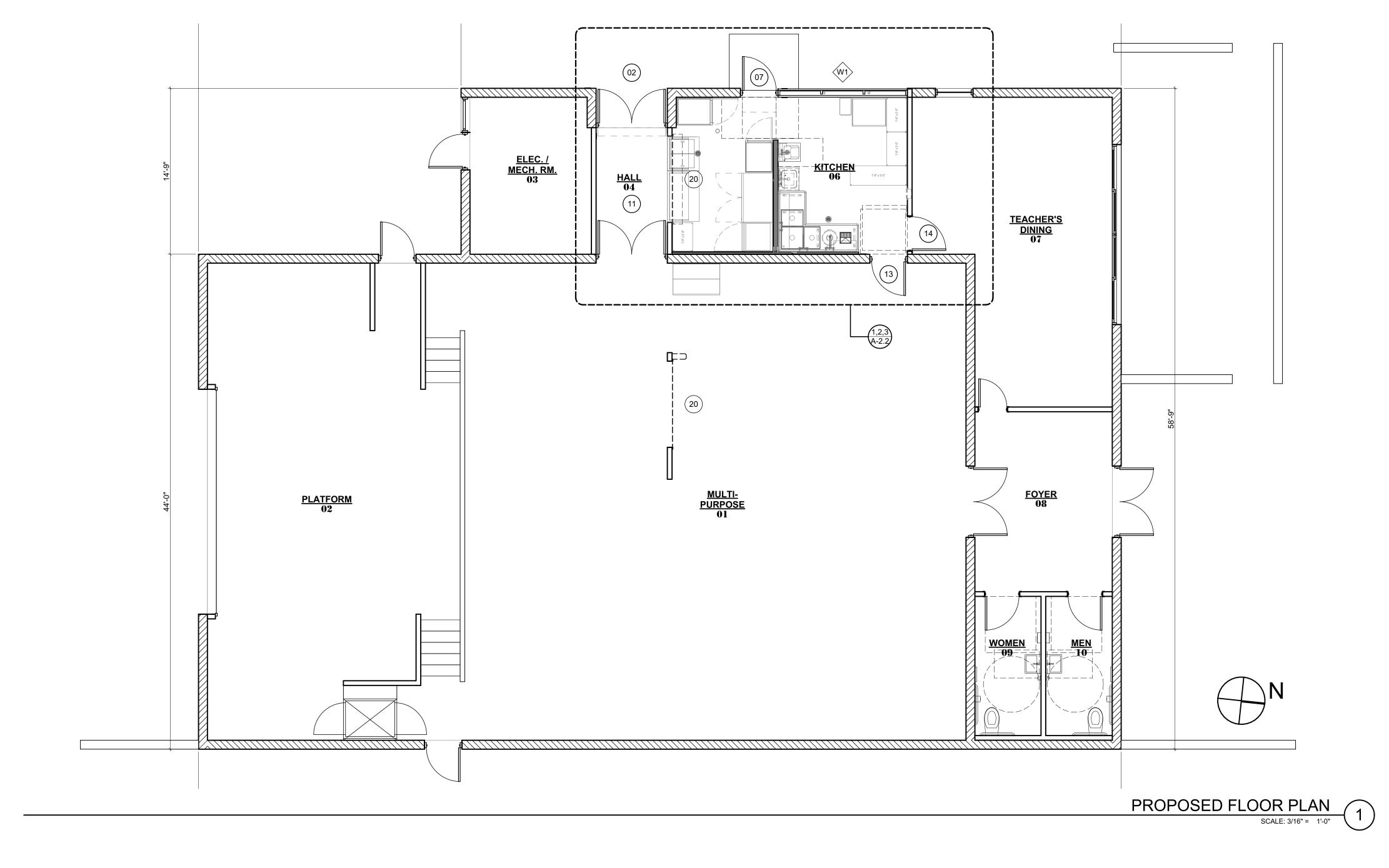
ROWLAND UNIFIED SCHOOL DISTRICT 1830 NOGALES STREET ROWLAND HEIGHTS, CA 91748

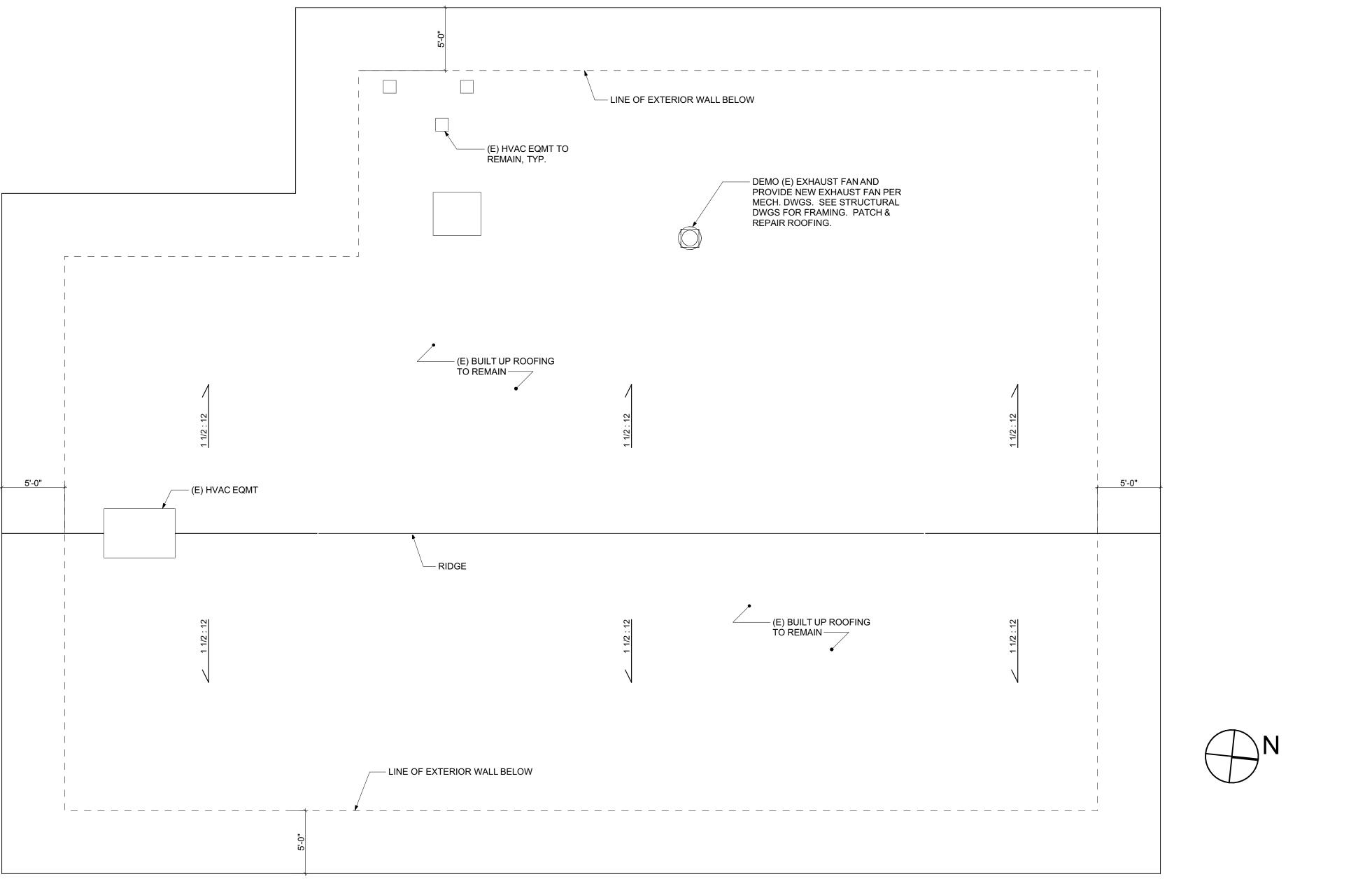
1/30/2024 3 DSA PROGRESS UPLOAD 4 DSA SUBMITTAL 3/4/2024 5 DSA SUBMITTAL V2 4/2/2024 PROJECT NO: **AS SHOWN**

4/2/2024

DRAWN BY: ED / LC CHECKED BY:
SHEET TITLE:

SITE PLAN





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APP: 03-124069 INC:

REVIEWED FOR

SS FLS ACS D

DATE: 05/24/2024

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Diamond Par California 01780

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BLANDFORD ES KITCHEN MODERNIZATION

2601 BLANDFORD DRIVE ROWLAND HEIGHTS, CA 91748

ROWLAND UNIFIED SCHOOL DISTRICT 1830 NOGALES STREET ROWLAND HEIGHTS, CA 91748

SUE	BMITTALS/ REVISIONS:	
1	SCHEMATIC DESIGN	9/19/2023
2	DESIGN DEVELOPMENT	12/4/2023
3	DSA PROGRESS UPLOAD	1/30/2024
4	DSA SUBMITTAL	3/4/2024
5	DSA SUBMITTAL V2	4/2/2024

ROJECT NO: 202310

EALE: AS SHOWN

ATE: 4/2/2024

RAWN BY: ED / LC

HECKED BY: DL

BUILDING MP PLAN

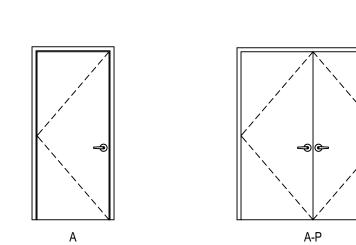
ROOF PLAN

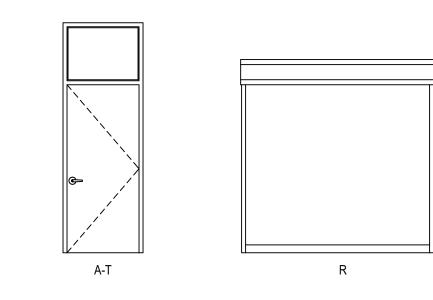
SCALE: 3/16" = 1'-0"

A-2.1



DOOR TYPES







01 DOOR # 07

- 1 EA MARKAR FM300 WEP 630 HINGE 1 EA MARKAR FM300 WEP X WT 630 HINGE 1 EA L9080 06A 626 LESS OUTSIDE TRIM
- 1 EA IVES VR900 630 1 EA SCHLAGE 30-137 626 MORTISE HOUSING 1 EA SCHLAGE 23-030 E KWY 626 CORE
- 1 EA LCN 4040 EDA 689 CLOSER (INSTALL DOOR CLOSER ON PUSH SIDE TO SWING 180) 1 EA PEMKO SWEEP 18061 CNB 36"
- 1 EA PEMKO THRESHOLD 176 AL 36" 1 EA PEMKO DOOR SEAL 2891 APK 3684

1 EA TRIMCO 1209 HO DOOR STOP

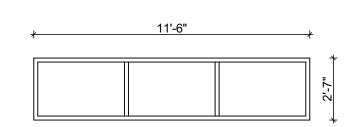
02 ROLL UP DOOR # 20 HARDWARE PER MANUFACTURER

HOLLOW METAL DOOR AND FRAME

3'-0" x 7'-0" 16 GA. HONEYCOMB CORE, GALVANIZED, SEAMLESS/ WELDED EDGE, CAPPED FLUSH TOP, 4 CHANNEL CONSTRUCTION TO MINIMIZE THERMAL BOW CONDITIONS. 14 GA. FRAME WITH REINFORCEMENT FOR CONTINUOUS HINGE AND DOOR CLOSER.

	WINDOW SCHEDULE															
NO.	NEW / EV	OPERATION	WIDTH	HEIGHT	SILL	AREA	QNTY	GLAZ	ZING	FR.A	ME		DETAILS		FIRE	NOTES / REMARKS
NO.	INEVV / EX	OPERATION	WIDIN	ПЕІОПІ	HEIGHT	ANEA	QNII	THK	TYPE	MAT	FINISH	HEAD	JAMB	SILL	RATING	NOTES / REMARKS
W1	New	FIXED	11'-6"	2'-7"	7'-0"	30	1	1"	CGL-T	ALUM	ANOD	7/A-5.1	2, 10/A-5.1	8/A-5.1	-	SEE 1/A-3.1 FOR MORE INFO.

WINDOW TYPES



DOOR & WINDOW ABBREVIATIONS:

REFLECTED CEILING PLAN

MATERIAL / FINISHES:						
ALUM	ALUMINUM					
ANOD	ANODIZED					
B.ANOD	BRONZE ANODIZED					
C.ANOD	CLEAR ANODIZED					
GL	GLASS					
HC	HOLLOW CORE					
HDWD	HARDWOOD					

- HDWD HARDWOOD HM HOLLOW METAL F.F. FACTORY FINISH FOAM FOAM CORE
- MTL METAL PCC POLYMER CELL CORE P.LAM PLASTIC LAMINATE P.MTL PRESSED METAL P.NICK POLISHED NICKEL PTD PAINTED
- S.ANOD SATIN ANODIZED SC SOLID CORE SGPT SEMI-GLOSS PAINT S.S. STAINLESS STEEL STL STEEL STN STAIN

WD WOOD

GLAZING TYPE:

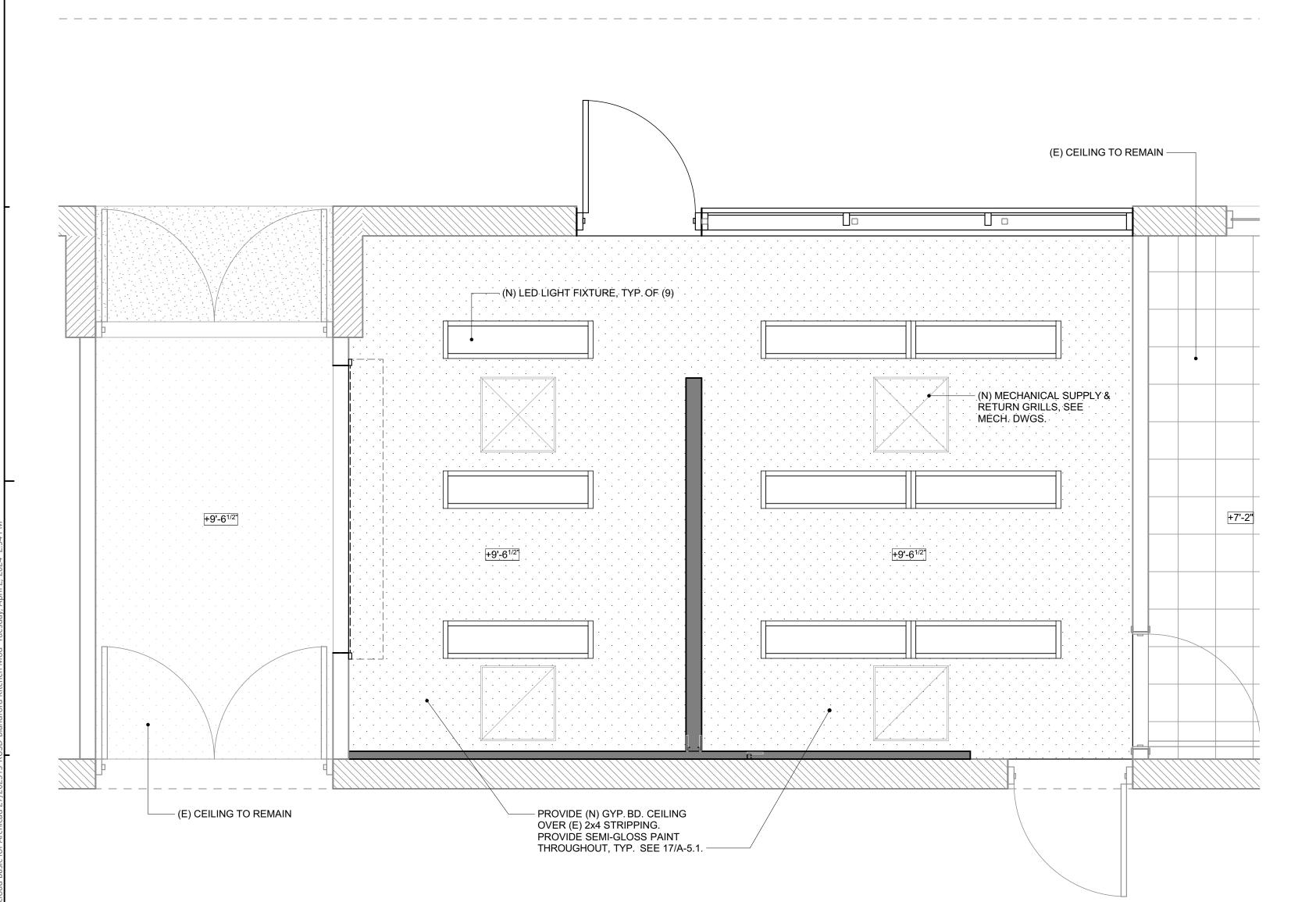
- CLEAR GLASS OGL OBSCURE GLASS TINTED GLASS INSULATED, DOUBLE PANE
- GLAZING TO PROVIDE APPROX. 65% VLT AND SHGC OF 0.50, U.N.O.

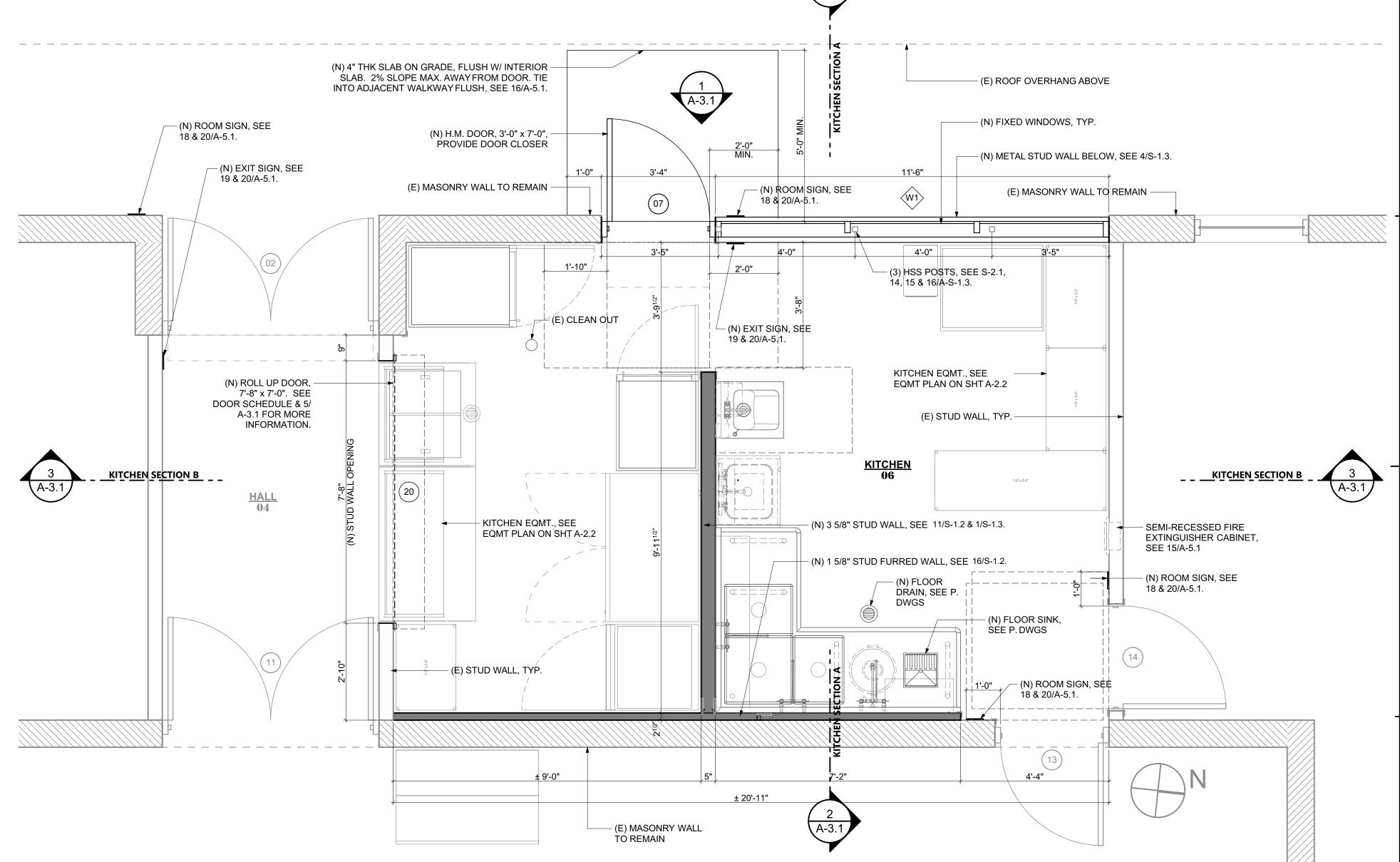
GENERAL:

(E) EXISTING TO REMAIN



REMOVE PORTION OF (E) -- REMOVE[|](E) DOOR & FRAME CONC. WALK, SEE PROPOSED PLAN FOR MORE INFORMATION - REMOVE (E) WINDOWS, TYP. - REMOVE (E) PONY WALL BELOW (E) EQMT TO BE RELOCATED, SEE (E) CLEAN OUT PROPOSED PLAN - PROVIDE (N) 7'-8" W x 7'-0" H┌ - - - - ¬ **- ¬ ¬** OPENING DEMO (E) STUD WALL —— → DEMO (E) KITCHEN EQMT., TYP. — DEMO (E) ROLLUP COUNTER DOOR - DEMO (E) KITCHEN DISHWASHER HOOD + — DEMO (E) STUD WALL





EXISTING / DEMOLITION PLAN

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DIV. OF THE STATE ARCHITEC

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APP: 03-124069 INC:

DATE: 05/24/2024

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BLANDFORD ES KITCHEN MODERNIZATION

2601 BLANDFORD DRIVE ROWLAND HEIGHTS, CA 91748

ROWLAND UNIFIED SCHOOL DISTRICT 1830 NOGALES STREET ROWLAND HEIGHTS, CA 91748

1 SCHEMATIC DESIGN 1/30/2024 3 DSA PROGRESS UPLOAD 3/4/2024 4 DSA SUBMITTAL 4/2/2024

5 DSA SUBMITTAL V2

DRAWN BY: CHECKED BY:
SHEET TITLE: **DEMO & PROPOSED**

FLOOR PLANS & REFLECTED CEILING PLAN

ENLARGED FLOOR PLAN

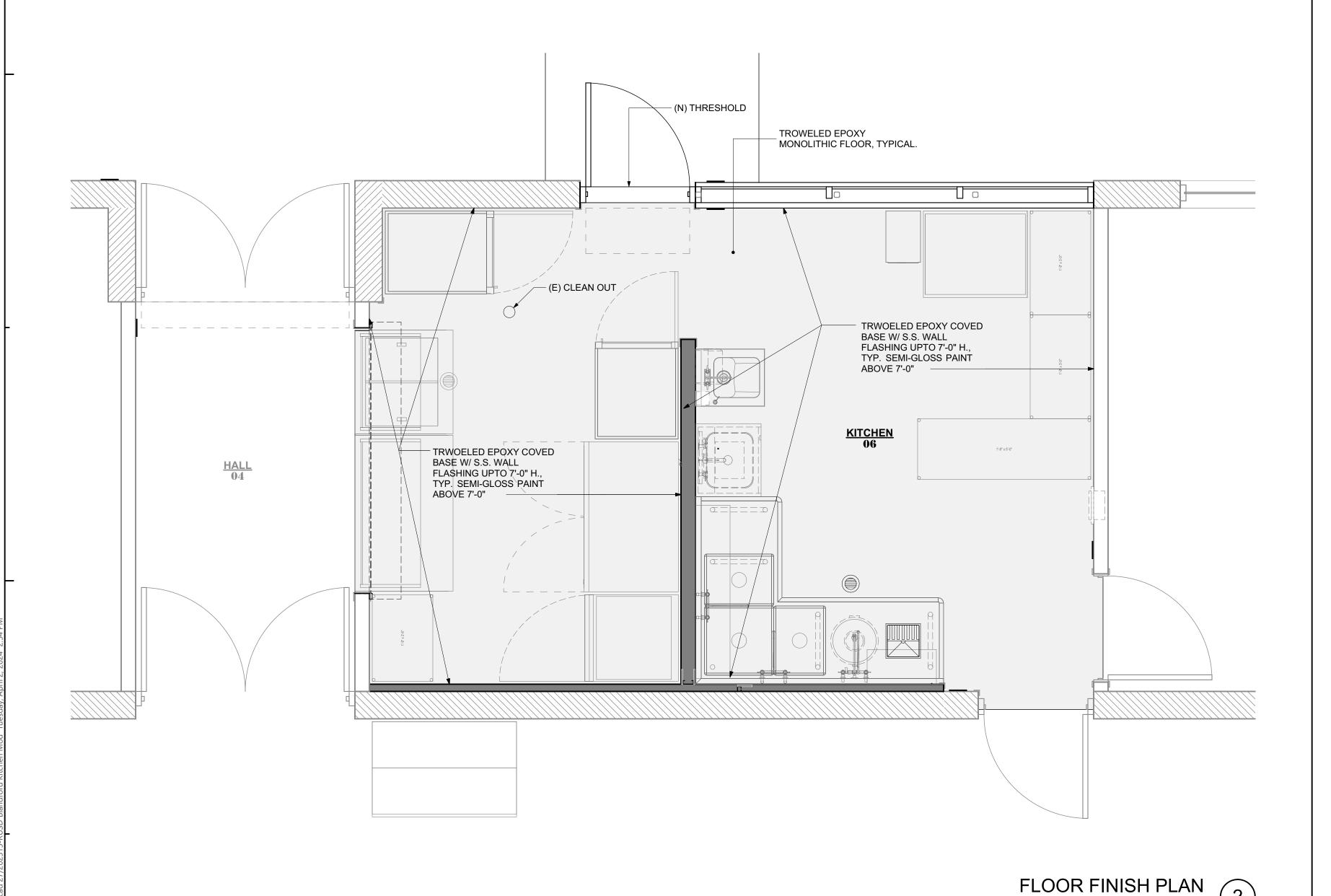
			FINISH SCHEDUL	E	
NO.	ROOM NAME	FLOOR	BASE	WALLS	CEILING
06	KITCHEN	TROWELED EPOXY MONOTHILIC FLOOR - SMOOTH	CONT. SMOOTH EPOXY FLOORING 4" UP TO THE WALL W/ 3/8" COVED BASE	S.S. WALL FLASHING (9'-6" H) FULL HEIGHT	GYP. BD. CEILING W/ SEMI-GLOSS PAINT

FLOOR FINISH NOTES:

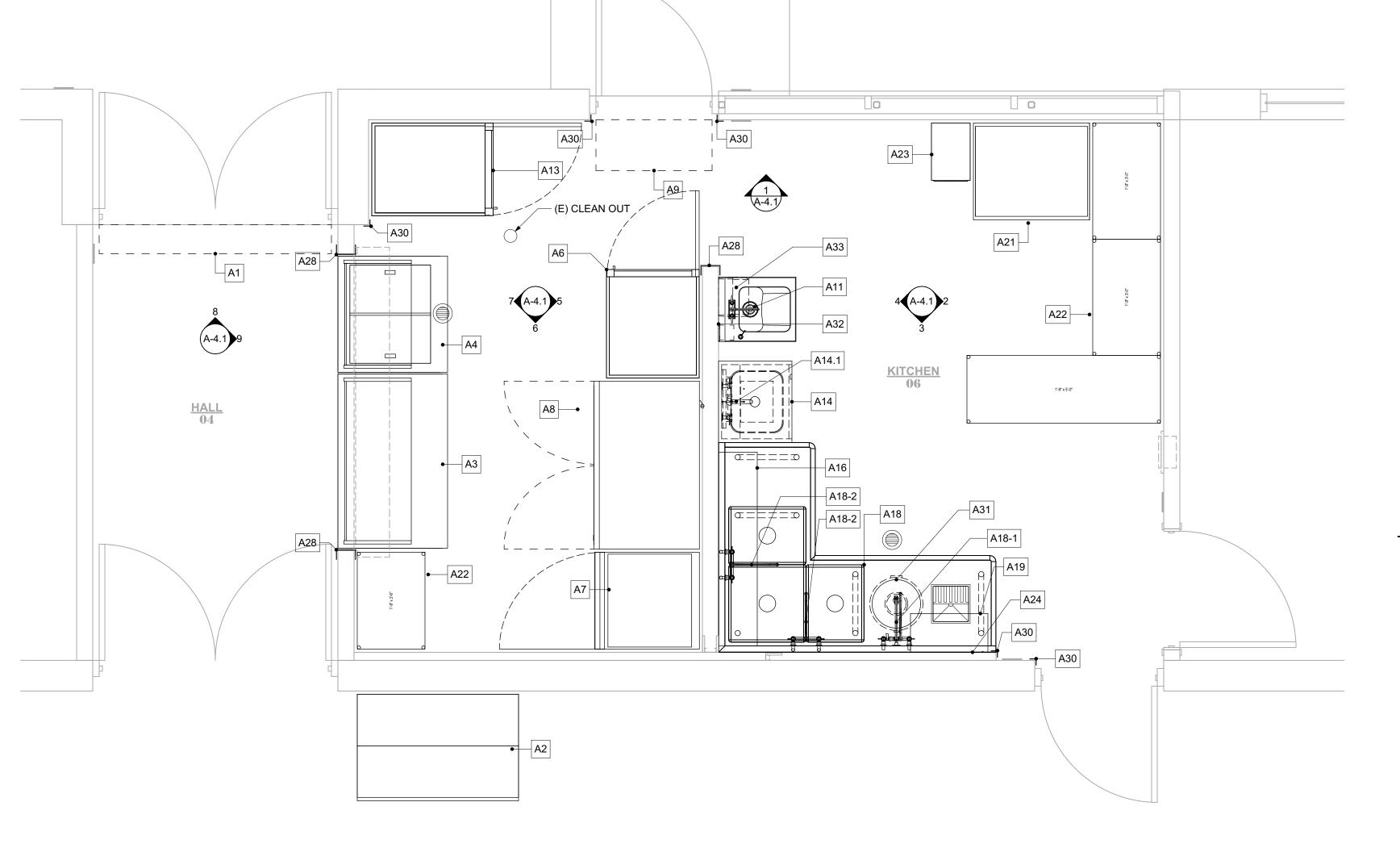
SHERWIN WILLIAMS FASTOP MULTI SL45 W/ TOPCOAT RESIN AT 200 S.F. / GAL. FOR WALKING SURFACES, PROVIDE 30 MESH (20/40) BROADCAST TO REFUSAL AND GROUT COAT AT 100 S.F. / GAL. AND TOP COATED WITH RESIN AT 200 S.F. / GAL. NON-SKID FLOORING WITH AN ABRASIVE TEXTURE SHALL BE LIMITED TO TRAFFIC AREAS ONLY, AND NOT UNDER EQUIPMENT.

BASE NOTES:

SHERWIN WILLIAMS FASTOP MULTI SL45 PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE 3/8" MIN. COVED RADIUS WHEN DRY.







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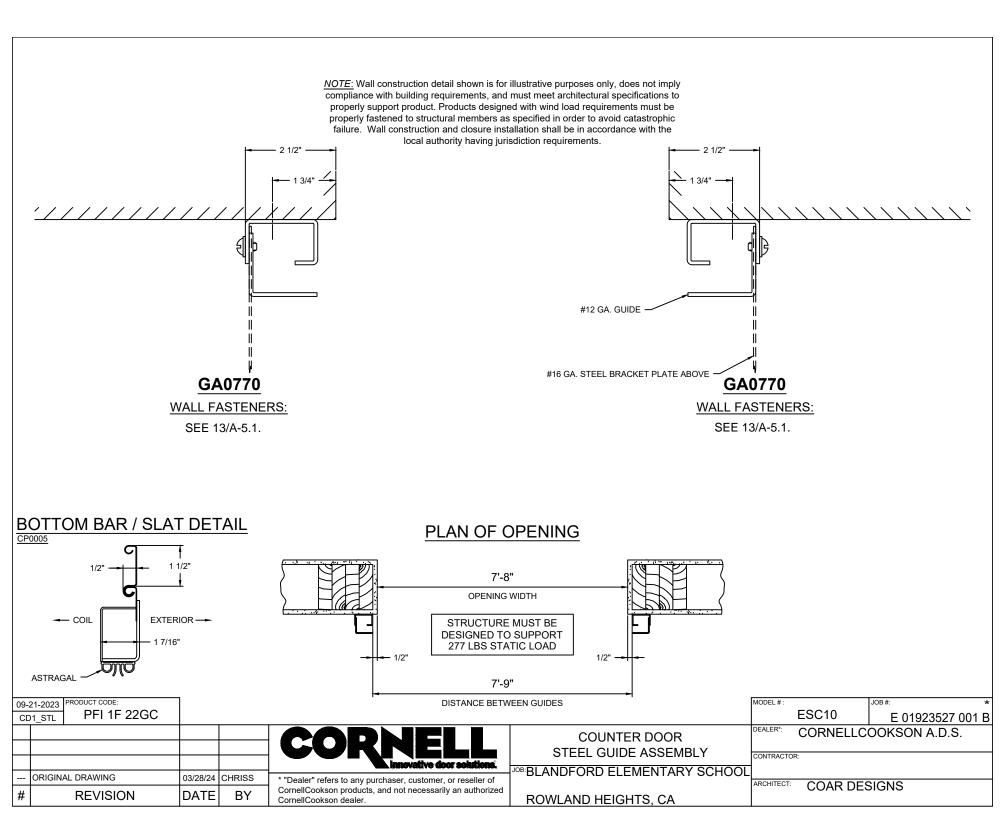
ROWLAND UNIFIED SCHOOL DISTRICT 1830 NOGALES STREET ROWLAND HEIGHTS, CA 91748

	,	
SUE	BMITTALS/ REVISIONS:	
1	SCHEMATIC DESIGN	9/19/2023
2	DESIGN DEVELOPMENT	12/4/2023
3	DSA PROGRESS UPLOAD	1/30/2024
4	DSA SUBMITTAL	3/4/2024
5	DSA SUBMITTAL V2	4/2/2024

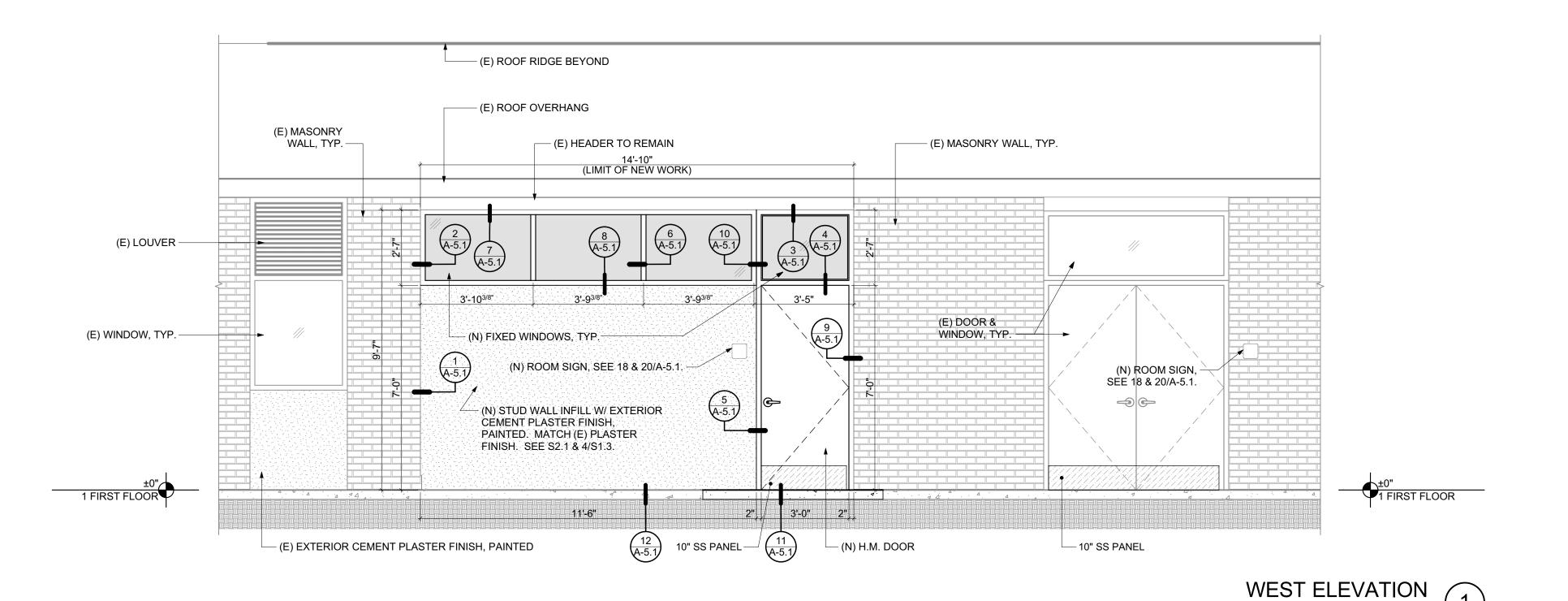
EQUIPMENT PLAN

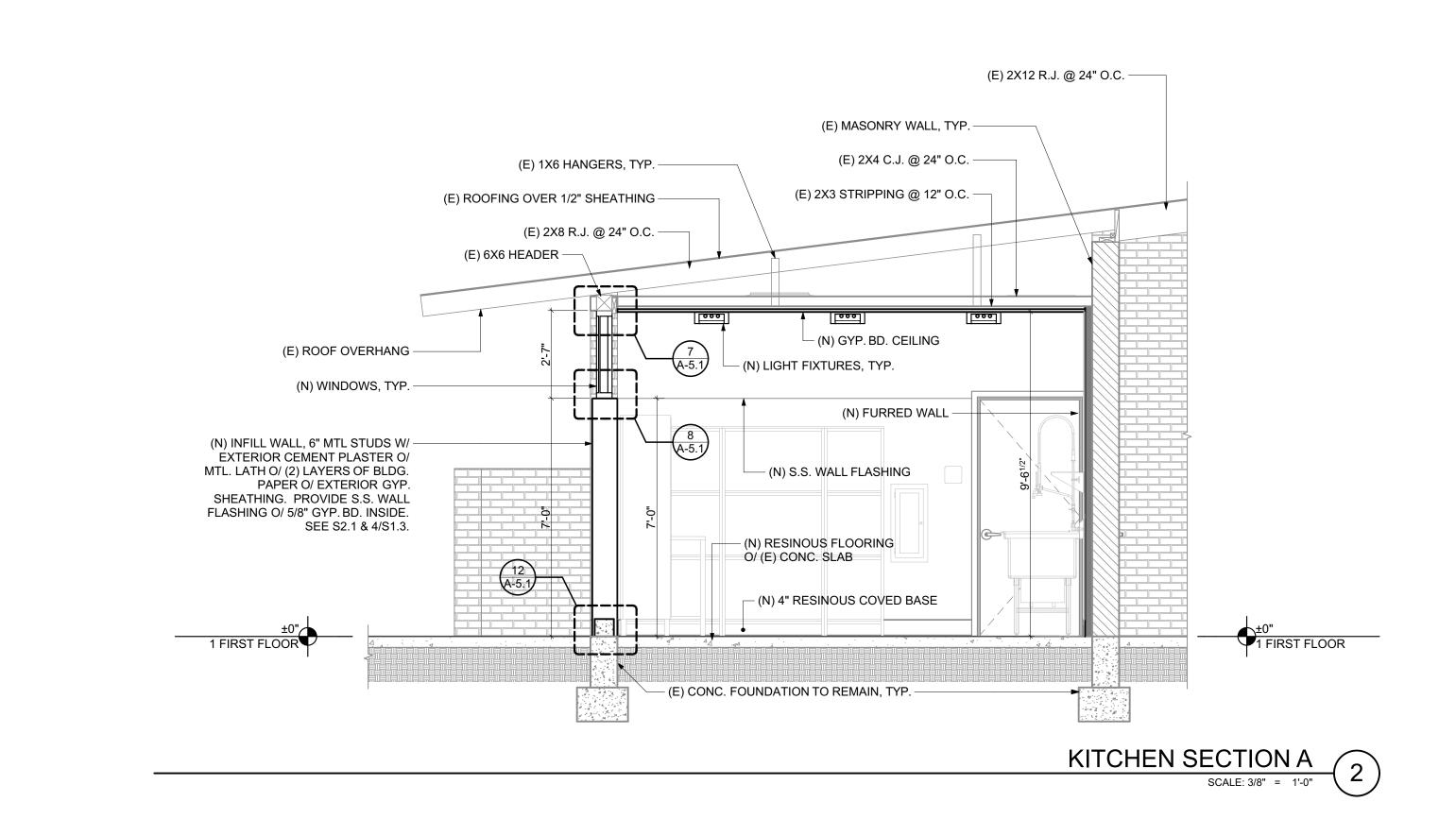
EQUIPMENT PLAN / FLOOR FINISH PLAN & **SCHEDULES**

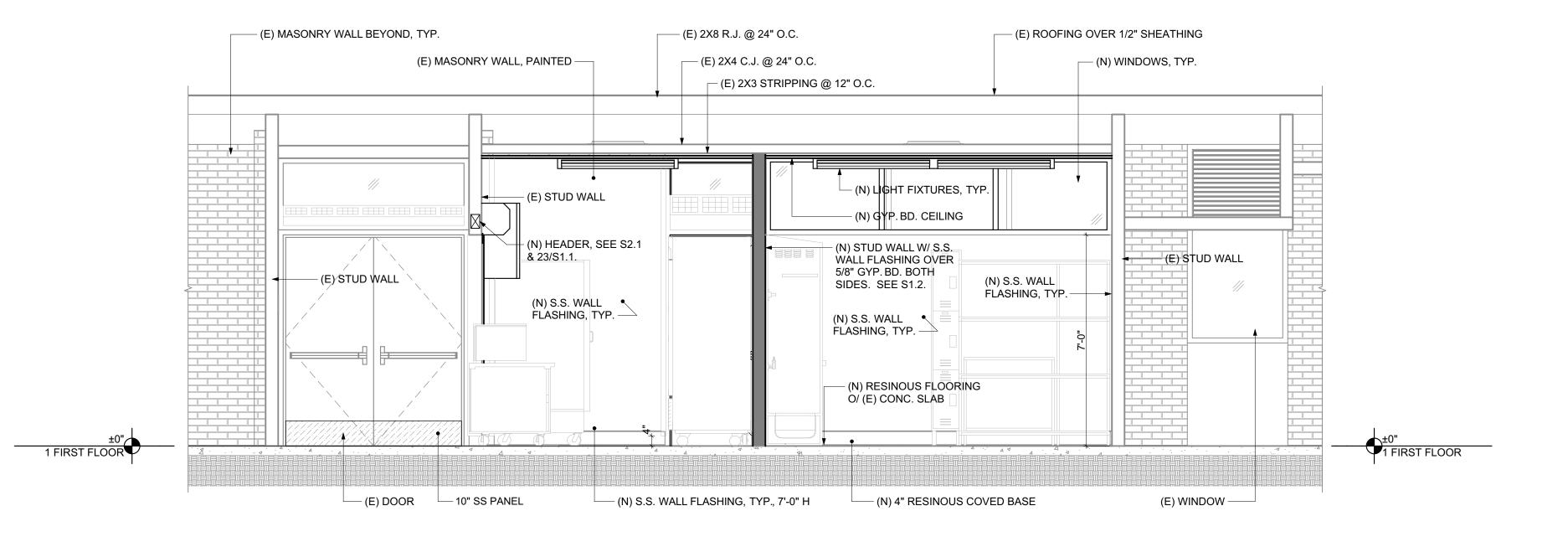
A-2.3



ROLL UP DOOR CUT SHEET







KITCHEN SECTION B

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BLANDFORD ES KITCHEN MODERNIZATION

2601 BLANDFORD DRIVE ROWLAND HEIGHTS, CA 91748

ROWLAND UNIFIED SCHOOL DISTRICT 1830 NOGALES STREET ROWLAND HEIGHTS, CA 91748

1/30/2024 3 DSA PROGRESS UPLOAD 3/4/2024 4 DSA SUBMITTAL

5 DSA SUBMITTAL V2

4/2/2024

PROJECT NO: SCALE: AS SHOWN

DRAWN BY: CHECKED BY:
SHEET TITLE:

SECTIONS AND ELEVATIONS

A-3.1

STAINLESS

SOAP

DISPENSER

PAPER TOWEL

HAND SINK

DISPENSER

06 KITCHEN South

RETHERM CABINET

/A9 / AIR

CURTAIN

A30 /

STAINLESS STEEL CORNER

ĢÚARD

/(N) ROOM SIGN,

10" SS PANEL

A8 (E) REFRIGERATOR,

REACH-IN

CURTAIN

• A28

STAINLESS STEEL WALL

END CAP

(E) HOT SERVING COUNTER MOBILE

(E) 6" VINYL TOPSET BASE

/SEE 18 & 20/A-5.1.

WALL SHELF, SINGLE

FOOD WASTE

STEEL WALL END CAP

STAINLESS STEEL-CORNER GUARD

(E) HOT SERVING

COUNTER MOBILE

CONT. 3/8"R SMOOTH EPOXY FLOORING

06 KITCHEN South

MOP SINK CABINET

CONT. 3/8"R SMOOTH EPOXY FLOORING

(E) SERVING COUNTER

MALL SHELF, SINGLE

3 COMP SINK

SGPT

SS

STORAGE -ŞHELVING

CONT. 3/8"R SMOOTH EPOXY FLOORING

BIG-FLO

MIXING

FAUCET

MATERIAL SCHEDULE

SS STAINLESS STEEL WALL FLASHING

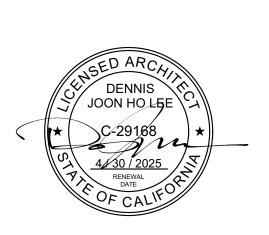
SGPT SEMI-GLOSS PAINT

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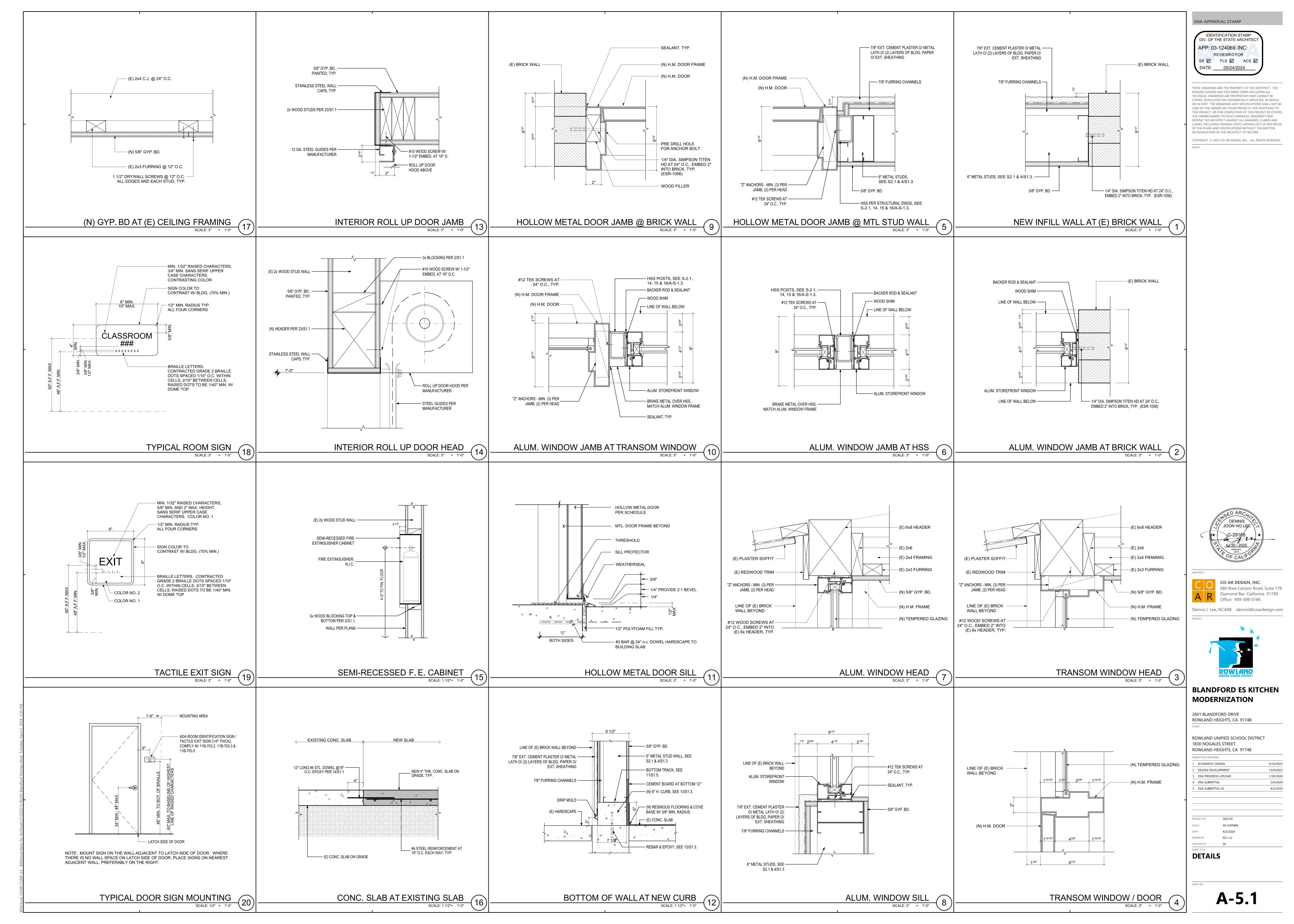
ROWLAND UNIFIED SCHOOL DISTRICT 1830 NOGALES STREET ROWLAND HEIGHTS, CA 91748 SUBMITTALS/ REVISIONS:

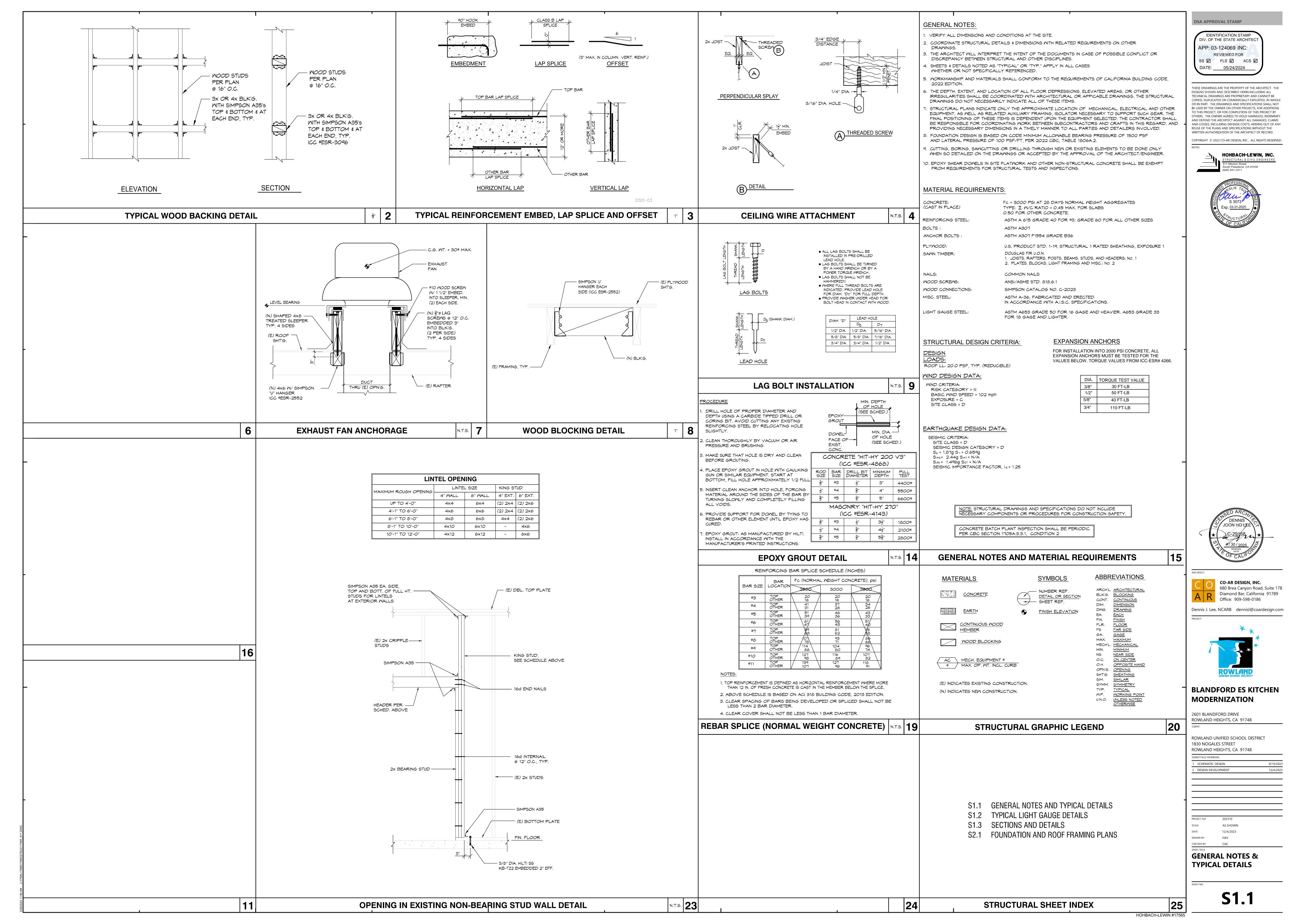
1	SCHEMATIC DESIGN	9/19/202
2	DESIGN DEVELOPMENT	12/4/202
3	DSA PROGRESS UPLOAD	1/30/202
4	DSA SUBMITTAL	3/4/202
5	DSA SUBMITTAL V2	4/2/202

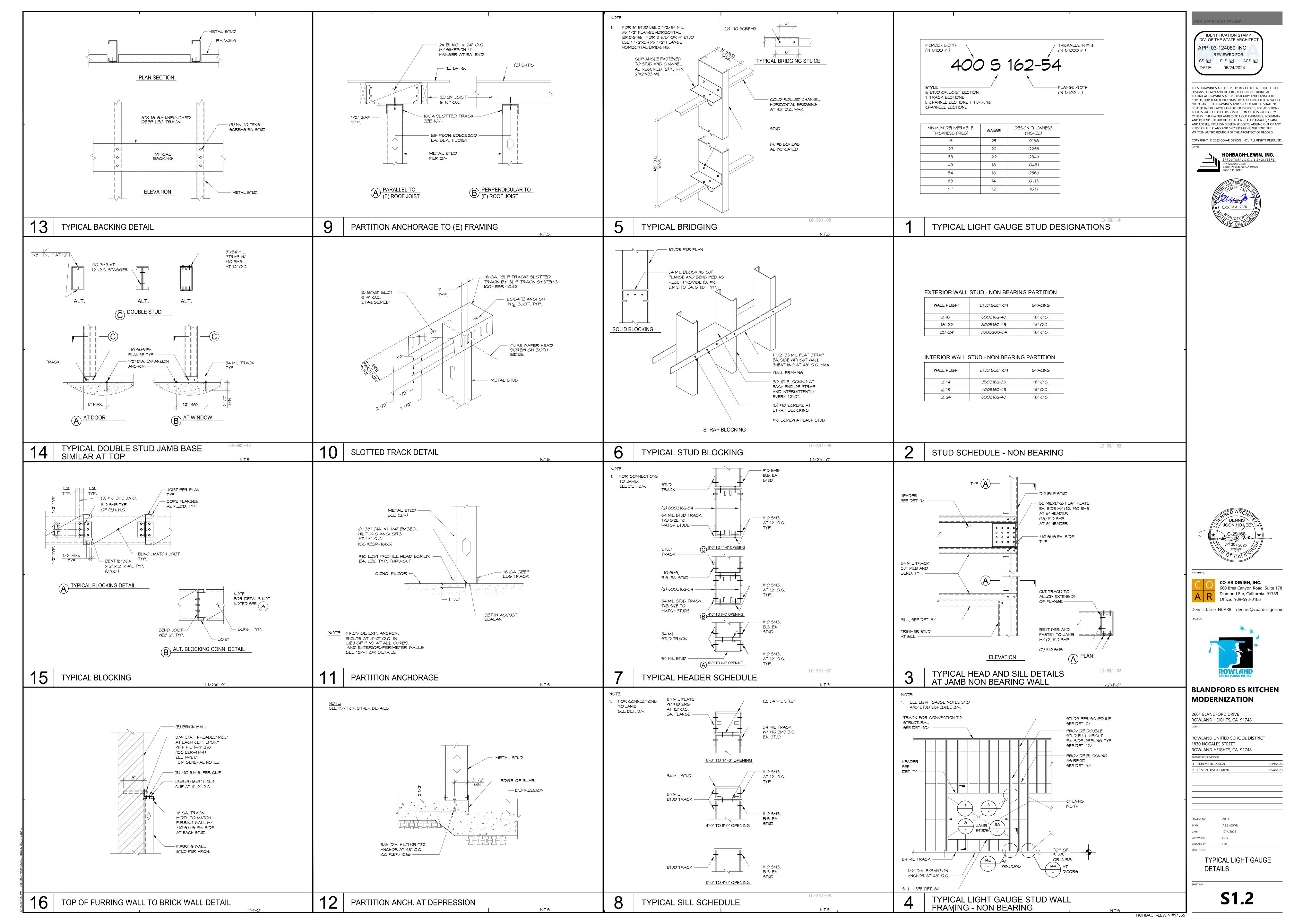
CHECKED BY:
SHEET TITLE:

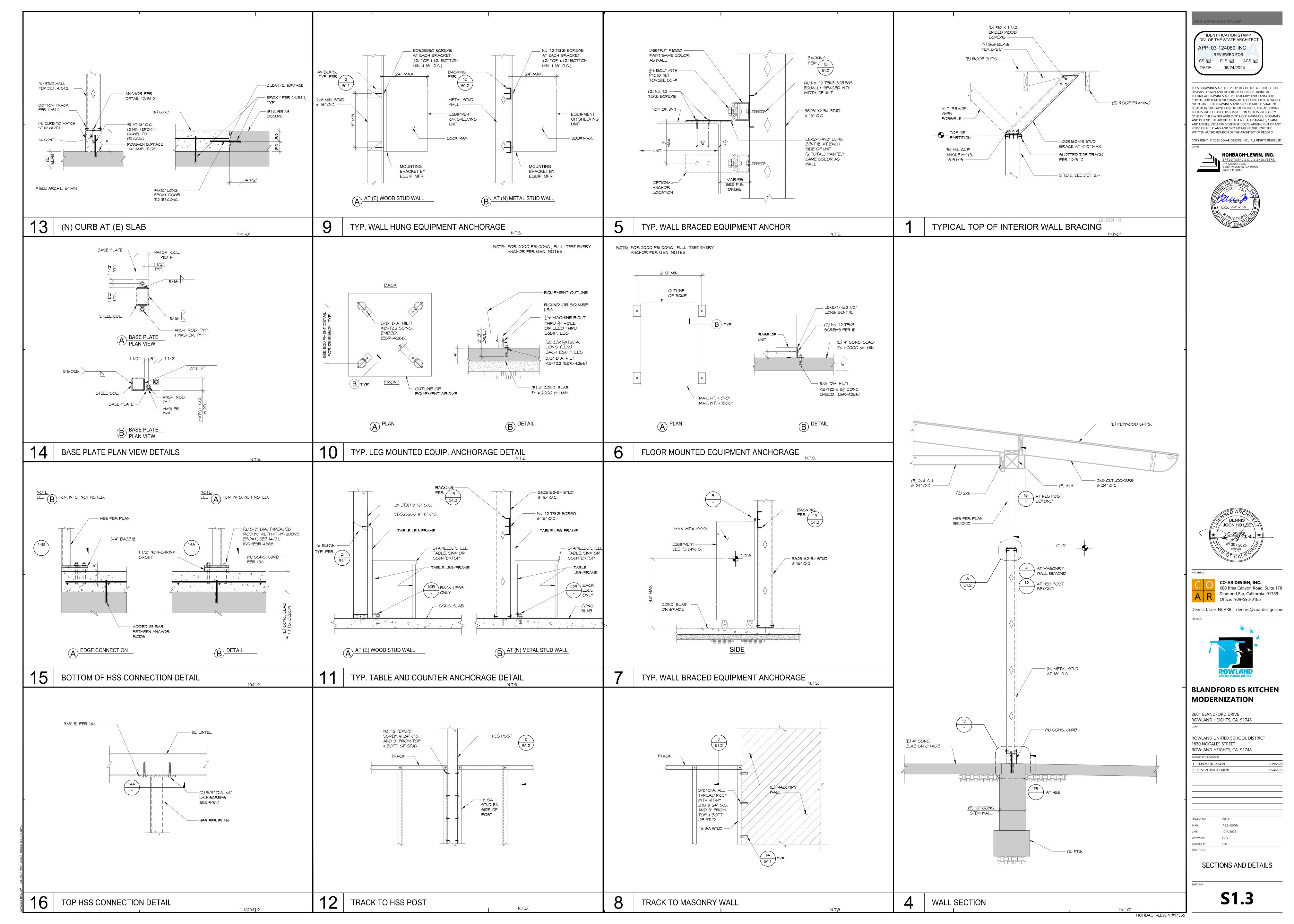
INTERIOR ELEVATIONS

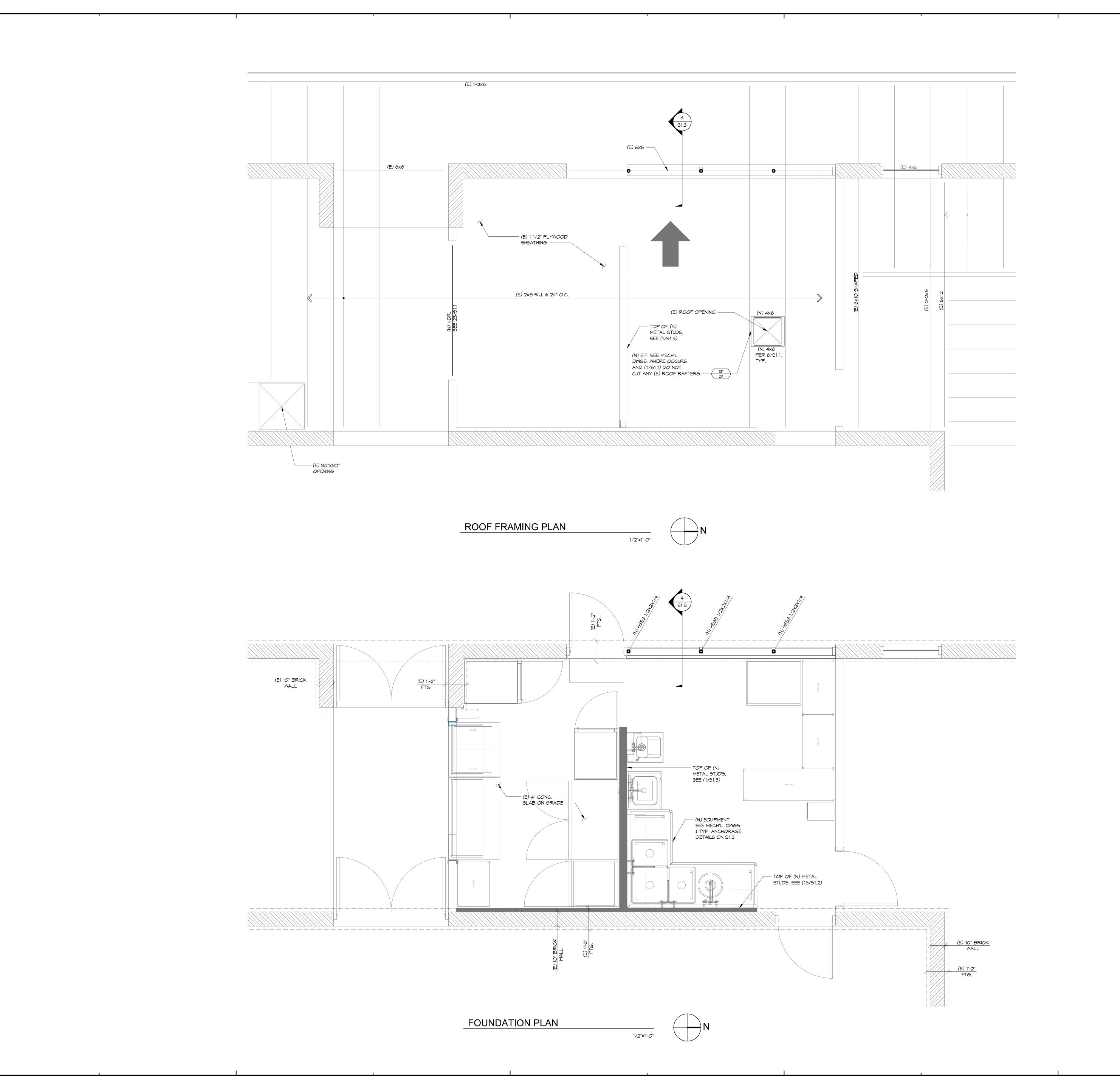
A-4.1











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BLANDFORD ES KITCHEN MODERNIZATION

2601 BLANDFORD DRIVE
ROWLAND HEIGHTS, CA 91748
CLIENT:

ROWLAND UNIFIED SCHOOL DISTRICT
1830 NOGALES STREET
ROWLAND HEIGHTS, CA 91748

SUBMITTALS/ REVISIONS:

2	DESIGN DEVELOPMENT	12/4/20

PROJECT NO: 202310

SCALE: AS SHOWN

DATE: 12/4/2023

DRAWN BY: HAV

CHECKED BY: CAC

SHEET TITLE:

FOUNDATION AND ROOF FRAMING PLAN

HOHBACH-LEWIN #17565

S2.1

- JOINTS AND SEAMS WITH SHEET METAL SCREW AND CAULK AIR TIGHT TO AVOID AIR STREAK.
- CONTRACTOR IS DIRECTED TO VISIT SITE AND BE FULLY COGNIZANT OF ALL CONDITIONS PRIOR TO PROPOSAL. VERIFY EXACT LOCATION, ELEVATIONS, SIZES AND CONDITIONS OF EXISTING UTILITIES, DUCTS AND PIPING ASSOCIATED WITH THE PROJECT ANY EXTRA EXPENSE DUE TO FAILURE TO MAKE SUCH EXAMINATION. SHALL NOT BE MADE. WHERE CHANGES IN THE EXISTING WORK ARE NECESSARY TO PERMIT THE INSTALLATION OF NEW WORK, THEY SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.
- 4. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED UTILITY SERVICES. INSPECTIONS AND PERMITS.
- 5. ALL MECHANICAL WORK SHALL BE CONCEALED, UNLESS OTHERWISE NOTED.
- 6. CLEAN THE PREMISES ON A DAILY BASIS TO LEAVE WORK AREA IN AN UNCLUTTERED CONDITION.
- 7. INSTALL THE ENTIRE MECHANICAL SYSTEM TO ELIMINATE ANY OBJECTIONABLE VIBRATION AND NOISE.
- 8. NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY IF A DISCREPANCY BETWEEN THE DRAWING AND THE ACTUAL SITE CONDITION OCCURS. STOP THE WORK THAT IS AFFECTED AND OBTAIN INSTRUCTION FROM THE OWNER'S REPRESENTATIVE BEFORE THE WORK CAN BE RESTARTED.
- 9. THE DRAWING INDICATES THE GENERAL ARRANGEMENT AND LOCATION OF PIPING, DUCTWORK, AND EQUIPMENT. MAKE DEVIATIONS SUCH AS OFFSETS IN DUCTS AND PIPES THAT ARE NECESSARY TO MEET SITE CONDITIONS AND TO COORDINATE WORK WITH OTHER TRADES. ALL DEVIATIONS TO THE CONTRACT DOCUMENT, WHETHER SHOWN OR NOT, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE MADE AT NO EXTRA EXPENSE TO THE OWNER.
- 10. OBTAIN AND FOLLOW MANUFACTURER'S DIRECTIONS WHEN INSTALLING NEW EQUIPMENT. SUBMIT OPERATING AND MAINTENANCE MANUALS.
- 11. COORDINATE ALL CUTTING AND PATCHING WITH GENERAL CONTRACTOR, INDIVIDUAL SUB-CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING TO THEIR WORK.
- 12. COORDINATE ALL WORK WITH ARCHITECTURAL, ELECTRICAL AND STRUCTURAL, AND PLUMBING DRAWINGS, INSTALL ALL WORK TO CLEAR NEW AND EXISTING ARCHITECTURAL AND STRUCTURAL MEMBERS.
- 13. FURNISH AND INSTALL COMPLETE ALL MATERIALS, EQUIPMENT AND LABOR AS SHOWN AND AS NECESSARY FOR COMPLETE WORKABLE SYSTEM.

HVAC GENERAL NOTES CONTINUES

- 14. CONTRACTOR SHALL GUARANTEE THAT THE WORK DONE UNDER THIS SPECIFICATION WILL BE FREE FROM FAULTY MATERIALS OR WORKMANSHIP AND HEREBY AGREES, UPON RECEIVING NOTIFICATION FROM THE OWNER, AND TO ITS ENTIRE SATISFACTION, ALL DEFECTS, DAMAGES OR IMPERFECTIONS APPEARING IN SAID WORK WITHIN A PERIOD OF ONE (1) YEAR FROM DATE OF FILING NOTICE OF COMPLETIONS.
- 15. ALL SUPPLY AIR DUCTWORK WITHIN UN-CONDITIONAL SPACE SHALL BE EXTERNALLY OR INTERNALLY INSULATED WITH MINIMUM R-8 INSULATION.
- 16. RESTORE ALL DAMAGE AND LEAVE PREMISES IN CLEAN CONDITION WHEN FINISHED WITH WORK.
- 17. PROVIDE TO THE OWNER TWO SETS OF AS-BUILT DRAWINGS AND TWO BOUND SETS OF ALL OPERATING MANUALS, DIAGRAMS SERVICE CONTRACTS, GUARANTEES, ETC.
- THE DRAWING. AIR BALANCING SHALL BE PERFORMED BY 3RD PARTY. SUBMIT 4 SET OF AIR BALANCE REPORT TO THE ENGINEER PRIOR FINAL.
- 19. THE MATERIAL OF THE DUCTS SHALL BE AS FOLLOWING; a) RECTANGULAR DUCTS AND ANY EXPOSED DUCTS: GALVANIZED SHEET METAL WITH GAUGE PER LATEST SMACNA STANDARD. b) ROUND DUCTS IN CEILING SPACE: GALVANIZED SHEET METAL WITH GAUGE PER LATEST SMACNA STANDARDS. CLASS 1 FLEXIBLE DUCT SHALL BE USED NOT MORE THAN 5 FT. FROM THE AIR IN/OUTLET. c) BATHROOM & KITCHEN EXHAUST DUCTS AND DRYER VENTS: GALVANIZED SHEET METAL INSTALL IN ACCORDANCE WITH METHODS AND STANDARDS OF ASHRAE AND SMACNA FOR LOW PRESSURE CONSTRUCTION.
- 20. ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE LISTED BY UNDERWRITER'S LABORATORIES.
- 22. SHEET METAL DUCTWORKS SHALL BE CONSTRUCTED PER SMACNA STANDARDS.
- 23. SEAL ALL TRANSVERSE JOINTS OF AIR DUCTS WITH DUCT SEALANT PER SMACNA TANDARD.
- 24. SUPPLY AND RETURN AIR DUCTS AND PLENUMS OF A HEATING OR COOLING SYSTEM SHALL BE INSULATED TO ACHIEVE THE MINIMUM THERMAL (R) VALUE AS SET FORTH IN 2022 CMC TABLE E 503.7.2(2) AND 503.7.3(1). APPROVED MATERIALS SHALL BE INSTALLED ON DUCTS AND PLENUMS FOR INSULATING, SOUND DEADENING, OR OTHER PURPOSES. MATERIALS SHALL HAVE A MOLD, HUMIDITY, AND EROSION-RESISTANT SURFACE THAT MEETS THE REQUIREMENTS OF THE REFERENCED STANDARD FOR AIR DUCTS IN CHAPTER 17. INSULATION APPLIED TO THE SURFACE OF DUCTS, INCLUDING DUCT COVERINGS, LININGS, TAPES, AND ADHESIVES, LOCATED IN BUILDINGS SHALL HAVE A FLAME-SPREAD INDEX NOT GREATER THAN TWENTY-FIVE (25) AND A SMOKE DEVELOPED INDEX NOT GREATER THAN FIFTY (50), WHEN TESTED AS A COMPOSITE
- . RECTANGULAR DUCT AND PLENUMS SHALL BE FABRICATED OF GALVANIZED STEEL. INSULATE PLENUMS AND RECTANGULAR DUCTING AS INDICATED. DUCT SHALL HAVE THE MINIMUM GAUGE PER SMACNA. FOR PRODUCT CONVEY DUCT, MINIMUM GAUGE OF SHEET METAL SHALL MEET REQUIREMENTS LISTED ON 2022 CMC TABLE 506.2(1) AND TABLE 506.2(2).
- 26. CONTRACTOR SHALL COORDINATE WITH ARCHITECT BEFORE PURCHASING DIFFUSERS AND REGISTERS FOR APPROPRIATE SIZE, TYPE, FINISH, AND INSTALLATION LOCATION.
- 27. FLEXIBLE DUCTS MAY BE USED IN BETWEEN JOISTS AND AT CONNECTION TO DIFFUSERS WITHIN A MAXIMUM 5 FEET LENGTH. FLEXIBLE DUCT SHALL BE LISTED AND LABELED UMC 10-1 (UL181).
- 28. VERIFY THERMOSTAT/SWITCH LOCATIONS W/ARCHITECT PRIOR TO INSTALLATION.
- 29. MECHANICAL CONTRACTOR SHALL PROVIDE ALL APPURTENANCES WHICH SHALL INCLUDE BUT NOT LIMITED TO WIRING IN CONDUIT AS REQUIRED BY CODE, CONTROL DEVICES, DAMPER, ACTUATORS, MOTORS, LINKAGES, CONTROLLERS, RELAYS, CONTRACTORS, REDUCED VOLTAGE TRANSFORMERS, PNEUMATIC TUBES, PNEUMATIC CONTROL VALVES, ETC. AS REQUIRED TO AUTOMATICALLY PERFORMED ALL FUNCTIONS.
- 30. DUCT TESTING AND SEALING SHALL BE PERFORMED BY LICENSED BALANCER AND THE BALANCE REPORT SHALL BE SUBMITTED TO OWNER/ENGINEER.
- 31. PROVIDE ACCESS PANELS FOR ALL FIRE DAMPERS, FIRE/SMOKE DAMPERS AND ACCESS FOR SHUT-OFF AND CONTROL VALVES. COORDINATE ALL CEILING AND WALL ACCESS WITH GENERAL CONTRACTOR.
- 32. CONDENSATE PIPE SHALL BE ASTM B88 TYPE "M" COPPER WITH THREADED OR SOLDER JOINTS.
- 33. PROVIDE SUPPORT TO HORIZONTAL REFRIGERANT PIPES LESS THAN ½" O.D. AT MAX. 60" INTERVAL AND LARGER THAN 1/2" O.D. AT MAX. 80" INTERVAL
- 34. PROVIDE ARMAFLEX INSULATION TO ALL REFRIGERANT PIPES, TUBES, FITTINGS, JOINTS, AND VALVES. TAKE EXTRA CARE TO COVER FLARE NUTS TO AVOID CONDENSATION. ALL PIPE SUPPORT BRACKETS AND REFRIGERANT PIPES SHALL BE NOT BE IN CONTRACT AND SEPARATED BY INSULATION. SEE INSULATION SCHEDULE FOR DETAIL.
- 35. ISOLATION VALVE OF VRV REFRIGERANT PIPING SYSTEM SHALL BE COMPATIBLE WITH R-410A AND POLY-VINYLETHER OIL WITH OPERATING TEMPERATURE RAGE OF -40°F TO 300°F. VALVE SHALL BE RATED FOR 500 PSIG WORKING PRESSURE AND CAPABLE OF HANDLING UP TO 700 PSIG.
- 36. ISOLATION VALVE OF VRV REFRIGERANT PIPING SYSTEM SHALL BE EQUIPPED WITH SERVICE PORT AND RATED FOR BI-DIRECTIONAL FLOW WITH ZERO (0) PRESSURE DROP WHEN FULL FLOW. VALVE SHALL BE PREPARED FOR BRAZED CONNECTIONS.
- 37. UNLESS DIRECT BY DAIKIN, DO NOT INSTALL DRIERS, OIL TRAPS, SIGHT GLASSES, OR ANY OTHER LINE COMPONENTS IN VRV REFRIGERANT PIPE SYSTEM.
- 38. PROVIDE SUPPORT TO HORIZONTAL REFRIGERANT PIPES LESS THAN 1/4" O.D. AT MAX. 60" INTERVAL AND LARGER THAN 1/8" O.D. AT MAX. 80" INTERVAL
- 39. PROVIDE SUPPORT TO VERTICAL REFRIGERANT PIPES LESS THAN 13/4" O.D. AT MAX. 60" INTERVAL.
- 40. PROVIDE PIPE GUIDE OR NON-FIXED (FLEXIBLE) PIPE SUPPORTS AT BOTH ENDS WITH ONE FIXED PIPE SUPPORT IN MIDPOINT AT EVERY 130 FEET OF PIPE RUN TO MITIGATE THERMAL EXPANSION / CONTRACTION. SEE DAIKIN'S RECOMMENDATIONS FOR REFRIGERANT PIPE SUPPORT DETAILS.
- 41. MECHANICAL CONTRACTOR IS RESPONSIBLE TO INSTALL OUTDOOR CONDENSING UNITS TO MAINTAIN ALL MANUFACTURER REQUIRED CLEARANCES. SEE INSTALLATION MANUAL FOR DETAILS.
- 42. MECHANICAL CONTRACTOR IS RESPONSIBLE TO INSTALL INDOOR FAN COIL UNITS AND BRANCH SELECTORS TO MAINTAIN ALL MANUFACTURER REQUIRED CLEARANCES. SEE INSTALLATION MANUAL FOR DETAILS.

APPLICABLE CODE

- 2022 CALIFORNIA BUILDING CODE 2022 CALIFORNIA MECHANICAL CODE
- 2022 CALIFORNIA ENERGY CODE 2022 CALIFORNIA FIRE CODE
- 2022 NFPA 13 ALL AMENDMENTS AND SUPPLEMENTS TO ABOVE CODES
- ALL CITY OF ROWLAND HEIGHTS ORDINANCES AND AMENDMENTS TO ABOVE CODES\ REGULATIONS OF DIVISION OF THE STATE ARCHITECT AND STANDARDS OF ROWLAND HEIGHTS UNIFIED SCHOOL DISTRICT

SCOPE OF WORK

- FURNISH AND INSTALL NEW EXHAUST FAN AND ASSOCIATED EXHAUST DUCT SYSTEM WITH ALL COMPONENTS REQUIRED FOR PROPER SYSTEM FUNCTIONALITY.
- MODIFY AND ADD NEW SUPPLY AIR DUCT TO (E)AC SYSTEM FOR PROVISION OF CONDITIONED AIR IN WORK SCOPE AREA.
- PROVIDE PRE-CONSTRUCTION AND POST-CONSTRUCTION AIR BALANCING TO (E)MODIFIED AC DUCT SYSTEM AND NEW DUCT SYSTEM.
- PROVIDE START-UP AND SCHEDULING TO MODIFIED AC SYSTEM.

MECHANICAL NOTES, LEGENDS, INDEX, CODE AND SCOPE OF WORK AND ABBREVIATION MECHANICAL CALCULATIONS AND SCHEDULES MECHANICAL DETAILS

DRAWING INDEX

MECHANICAL REFLECTED CEILING PLAN-DEMO M-1.1 MECHANICAL REFLECTED CEILING PLAN-NEW

M-0.2

M-0.3

M-2.0

.1	MECHANICAL REFLECTED CE	ILING PLAN-NEW
2.0	MECHANICAL ROOF PLAN	
	LEGENDS, S	YMBOLS AND ABBREVIATIONS
	SYMBOL	DESCRIPTION
	UP DN X	SUPPLY RECTANGULAR DUCT SECTION/UP (OR PENETRATION THROUGH FLOOR/ROOF). RETURN
	-200 B 20x10 B -200 B	CEILING EXHAUST REGISTER
		CEILING RETURN REGISTER
	200 20x10x3 A 20x10x3 A -200 B 20x10 B	CEILING SUPPLY DIFFUSER WITH FLEXIBLE DUCT AND AIRFLOW PATTERN SIDEWALL EXHAUST OR RETURN REGISTER TOP FIGURE INDICATES CFM. BOTTOM FIGURES INDICATES NECK SIZE, DIRECTION AND NUMBER OF THROWS ON SUPPLY DIFFUSER. DUCT SIZE IS FULL SIZE OF DIFFUSER/REGISTER CONNECTION. LETTER INSIDE CIRCLE INDICATES DIFFUSER TYPE. SEE DIFFUSER SCHEDULE FOR DIFFUSER TYPES.
	48"Lx1x2" B	LINEAR SLOT DIFFUSER TOP FIGURE INDICATES CFM. BOTTOM FIGURE INDICATES LENGTH OF SLOT/NUMBER OF SLOTS/SLOT WIDTH
	12x8	RECTANGULAR DUCT WITH NET INSIDE DIMENSIONS SHOWN IN INCHES. ARROW INDICATES FLOW DIRECTION.
	12x8	DUCT WITH INTERNAL ACOUSTICAL INSULATION. DIMENSIONS SHOWN ARE NET INSIDE IN INCHES.
	\(12"\Ø \)	ROUND DUCT WITH NET INSIDE DIMENSION SHOWN
	12"Ø SS	316L WELDED STAINLESS STEEL DUCT
		SQUARE ELBOW W/ TURNING VANES TURNING VANES IN SUPPLY DUCT ONLY
		R/D =1.5, 90° / 45° RADIUS ELBOW
	12x8	ROUND DUCT TAP ON RECTANGULAR DUCT TAP ENTRY AREA EQUALS 150% OF BRANCH AREA
		DECT. DUCT TAD ON DECTANCIA AD DUCT

ROUND DUCT WITH 45° TAKE-OFF CONCENTRIC / ECCENTRIC DUCT REDUCER RECTANGULAR TO RECTANGULAR, ROUND TO ROUND OR DUCT TO FILTER HOUSING TRANSFORMATION. MAX. 15° INCLUDED ANGLE EXCEPT WHERE SHOWN OTHERWISE. RECTANGULAR TO ROUND DUCT TRANSFORMATION MANUAL SINGLE BLADE OR MULTIPLE BLADE VOLUME DAMPER	12x8	RECT. DUCT TAP ON RECTANGULAR DUCT TAP ENTRY AREA EQUALS 150% OF BRANCH AREA
RECTANGULAR TO RECTANGULAR, ROUND TO ROUND OR DUCT TO FILTER HOUSING TRANSFORMATION. MAX. 15° INCLUDED ANGLE EXCEPT WHERE SHOWN OTHERWISE. RECTANGULAR TO ROUND DUCT TRANSFORMATION MANUAL SINGLE BLADE OR MULTIPLE BLADE VOLUME DAMPER	12"Ø	ROUND DUCT WITH 45° TAKE-OFF
To included angle except where shown otherwise. RECTANGULAR TO ROUND DUCT TRANSFORMATION MANUAL SINGLE BLADE OR MULTIPLE BLADE VOLUME DAMPER		RECTANGULAR TO RECTANGULAR, ROUND TO ROUND OR
MANUAL SINGLE BLADE OR MULTIPLE BLADE VOLUME DAMPER		· · - · · - · - · - · · · · · ·
VOLUME DAMPER		RECTANGULAR TO ROUND DUCT TRANSFORMATION
	FOD	

SYMBOL	ABBREV.	DESCRIPTION
TAG①#		DIGITAL PROGRAMMABLE THERMOSTAT
	CSD	CEILING SUPPLY DIFFUSER W/ MANUAL VOLUME DAMPER
	CRR	CEILING RETURN REGISTER W/ MANUAL VOLUME DAMPER
	CRR	CEILING EXHAUST GRILLE W/ MANUAL VOLUME DAMPER
	MVD/OBD	MANUAL VOLUME / OPPOSED-BLADE BALANCING DAMPER
	UP	DUCT UP WITH SMOOTH 90° ELBOW
	DN.	DUCT DOWN WITH SMOOTH 90° ELBOW
	AP	ACCESS PANEL
DSD —	DSD	DUCT SMOKE DETECTOR

FIRE/SMOKE DAMPER W/ DUCT ACCESS PANEL

REQUIRED CLEARANCE FOR THE EQUIPMENT

FLEXIBLE CONNECTION IN DUCT

	2111	ELBOW
	AP	ACCESS PANEL
DSD —	DSD	DUCT SMOKE DETECTOR
FSD	FSD	FIRE AND SMOKE DAMPER
	DIFF. P	DIFFERENTIAL PRESSURE SENSOR AND TRANSDUCER
\\\	BDD	BACK-DRAFT DAMPER
=	CO	CLEAN OUT
C	DN.	PIPE DOWN
0	UP	PIPE UP

PIPE REDUCER

REFRIGERANT PIPE

FIRE SMOKE DAMPER

RF

DESCRIPTION DESCRIPTION GE **GREASE EXHAUST** AIR CONDITION ABOVE FINISHED FLOOR ICS IN CEILING SPACE INS INSULATION (THERMAL) BUILDING **BSMT** BASEMENT NIC NOT IN CONTRACT CAP FOR FUTURE CFF OUTSIDE AIR (FRESH AIR) CLG CEILING CEILING SUPPLY DIFFUSER CSD **RETURN AIR** EXISTING SUPPLY AIR EXHAUST AIR SEE ARCHITECTURAL DRAWING SOV SHUT-OFF VALVE DEMOLISH SRR SIDEWALL RETURN REGISTER DOWN TRANSFER AIR FRESH AIR

L'EGENDS. SYMBOLS AND ABBREVIATIONS CONTINUES

MECHANICAL SEISMIC ANCHORAGE BRACING AND SUPPORT NOTES

UP THROUGH ROOF

VENT THROUGH ROOF

MEP EQUIPMENT ANCHOARAGE NOTE

ALL MECHANICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS DESCRIBED IN THE 2022 CBC. SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26 AND 30:

ALL PERMANENT EQUIPMENT AND COMPONENTS.

FLOOR

FROM

- 2. TEMPORARY OR MOVABLE 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
- 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 TRAVERSE AND LONGITUDINAL DIRECTIONS:

- A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT
- 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 ACHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRUBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.126.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS

MP ☐ MD ☑ PP ☐ E ☐ - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND

MP MD PP E - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) #

OR IN PART. THE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY THE OWNER ON OTHER PROJECTS. FOR ADDITIONS TO THIS PROJECT, OR FOR COMPLETION OF THIS PROJECT BY OTHERS. THE OWNER AGREES TO HOLD HARMLESS, INDEMNIF AND DEFEND THE ARCHITECT AGAINST ALL DAMAGES, CLAIMS AND LOSSES, INCLUDING DEFENSE COSTS, ARISING OUT OF ANY REUSE OF THE PLANS AND SPECIFICATIONS WITHOUT THE WRITTEN AUTHORIZATION OF THE ARCHITECT OF RECORD. COPYRIGHT © 2023 CO-AR DESIGN, INC., ALL RIGHTS RESERVED.

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DATE: 05/24/2024

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BLANDFORD ES KITCHEN MODERNIZATION

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ROWLAND UNIFIED SCHOOL DISTRICT 1830 NOGALES STREET ROWLAND HEIGHTS, CA 91748 SUBMITTALS/ REVISIONS:

1	SCHEMATIC DESIGN
2	DESIGN DEVELOPMENT
3	DSA SUBMITTAL
4	DSA PC REVISION

12/4/2023

04/01/2024

AS SHOWN

MECHANICAL NOTES, LEGENDS, INDEX, CODE AND SCOPE OF WORK AND ABBREVIATION

MIN. OSA AND EXHAUST VENTILATION CALCULATIONS															
AREA DESIGNATION	OCCUPANCY CLASSIFICATIONS	OCCUPANT DENSITY (PPL/1000 FT ²)	AREA (A _Z -FT ²)	NO. OF OCC. (P _Z)	PPL OSA RATE (R _P -CFM/PPL)	AREA OSA RATE (R _A -CFM/FT ²)	MIN. REQ'D OSA (V _{bZ} -CFM)	DISTRIBUTION EFFECTIVENESS (E _Z)	FINAL REQ'D OSA RATE (V _{OZ} -CFM)	EXHAUST RATE (CFM/FT ²)	REQUIRE EXHAUST AIRFLOW (CFM)	MIN. OSA RATE BASED ON TABLE 120.1-7 2022 ENERGY CODE (CFM/SQ.FT)	MIN. REQ'D AIRFLOW PER TABLE 120.1-A 2022 ENERGY CODE (CFM)		
KITCHEN 06	KITCHEN COMMERCAIL	20	290	6	7.5	0.12	80	1.0	80	0.70	203	0.15	44	-400	80
	TOTAL							-400	80						

* MIN. OSA VENTILATION IS CALCULATED BASED ON 2022 CMC.

A. SECTION 403.2.1 : $V_{bZ} = R_P \times P_Z + R_A \times A_Z$ B. SECTION 403.2.3 : $V_{OZ} = V_{bZ}/E_Z$ C. TABLE 402.1 AND TABLE 403.2.2

D. TABLE 403.7

	EXHAUST FAN SCHEDULE																
TAG	AREA SERVED	MAKE/MODEL	CFM	ESP	FRPM				ELECTRICAL	T		WEIGHT	REMARK				
17 (G	/ (ITE/ COLITYED	1111 (1 (2) 1110 2 2 2	J							VOLTS	Ø	BHP	ENCLOSURE	FLA	HP/WATT	(LBS)	TIETYN II II X
EF-01	KITCHEN ROOM	PANASONIC / G-095-VG	400	0.4	1,643	115	1	0.12	TEFC	3.8	1/4 /	29	1,2,3,4				

PROVIDE FAN WITH FACTORY INSTALLED OR FIELD INSTALLED BACK-DRAFT DAMPER AT INLET OF FAN.

ELECTRICAL TO PROVIDE AND INSTALL DISCONNECT SWITCH.

3. EXHAUST FAN SHALL BE CONTROLLED BY TIME CLOCK FOR CONTINUOUSLY OPERATION DURING OPERATING HOURS.

4. INSTALL FAN WITH FACTORY ROOF CURB PREPARED BY GC.

_							
				D	IFFUSER AND GRIL	LE SCHEDULE	
	TAG	LOCATION	TYPE	BRAND / MODEL	MODULE SIZE	NECK SIZE	REMARK
	А	SEE PLAN	CEILING SUPPLY DIFFUSER	TITUS / PCS	24X24	SEE PLAN	1,2,3,4
	В	SEE PLAN	CEILING RETURN/ EXHAUST GRILLE	TITUS / PAR	24X24	SEE PLAN	1,2

1. CONTRACTOR TO VERIFY EXACT BORDER TYPE WITH ACTURAL CEILING CONSTRUCTION PRIOR TO ORDER.

2. PROVIDE FACTORY OPPOSED-BLADES DAMPER FOR BALANCING WHERE ACCESS OF MANUAL DAMPER CANNOT BE OBTAINED.

3. CONFIRM WITH ARCHITECT FOR FINISH AND COLOR PRIOR TO PLACE ORDER.

4. PROVIDE TAP BOX ON TOP OF DIFFUSER/PLENUM FOR DUCT CONNECTION.

	DUC	CT INSULATION SCHEDU	LE		
ITEM	LOCATION	INSULATION TYPE	MIN. R-VALVE	MIN. THICKNESS	REMARK
SUPPLY AIR DUCT/PLENUM	EXTERIOR AND UNCONDITIONAL SPACE	FIBERGLASS	R-8	3"	1,2
SUPPLY AIR DUCT/PLENUM	INDIRECT CONDITIONAL SPACE	FIBERGLASS	R-4.2	1.5"	1,2
DEMVBKS.					

| REMARKS:

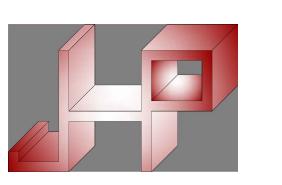
1. ALL INSULATION OR ACCOUSTICAL LINING SHALL HAVE SMOKE SPREAD INDEX LESS THAN 50 AND FLAME SPREAD INDEX LESS THAN 25.

2. ALL EXTERIOR DUCTWORK AND PLENUMS SHALL BE INTERNALLY INSULATED.

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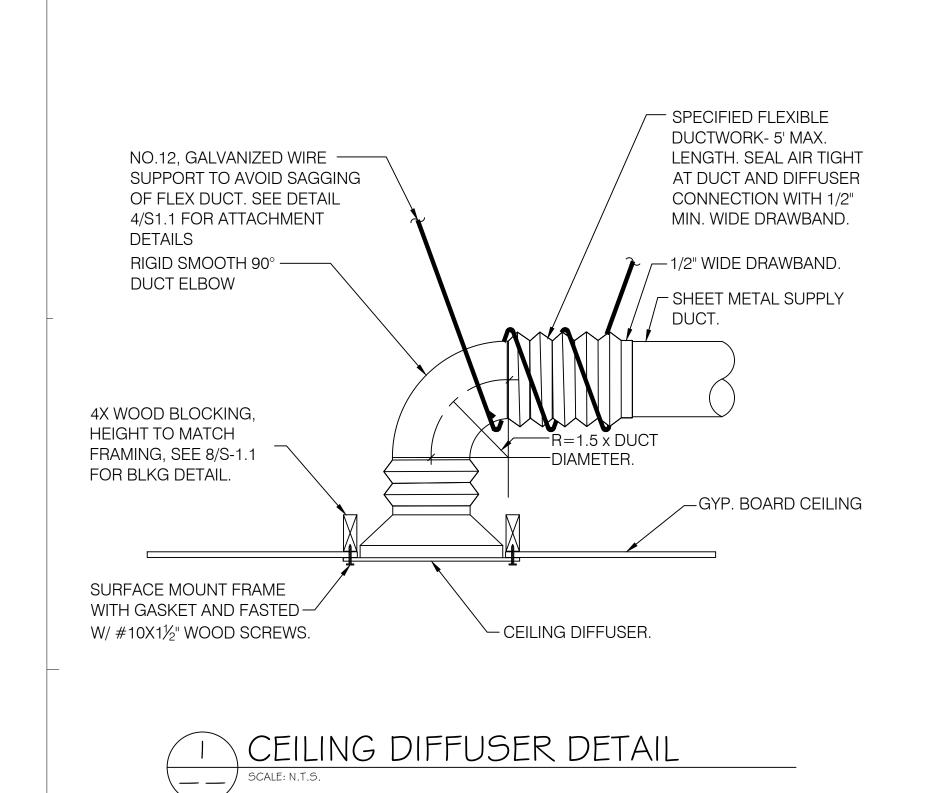
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2	DESIGN DEVELOPMENT	12/4/2023
3	DSA SUBMITTAL	02/26/2024
4	DSA PC REVISION	04/01/2024

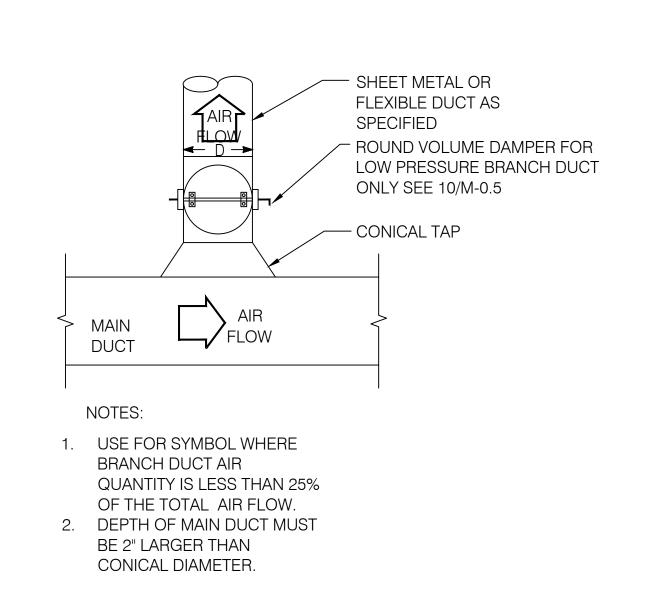
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SCALE:	AS SHOWN	
DATE:	12/4/2023	
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CHECKED BY:	IP	

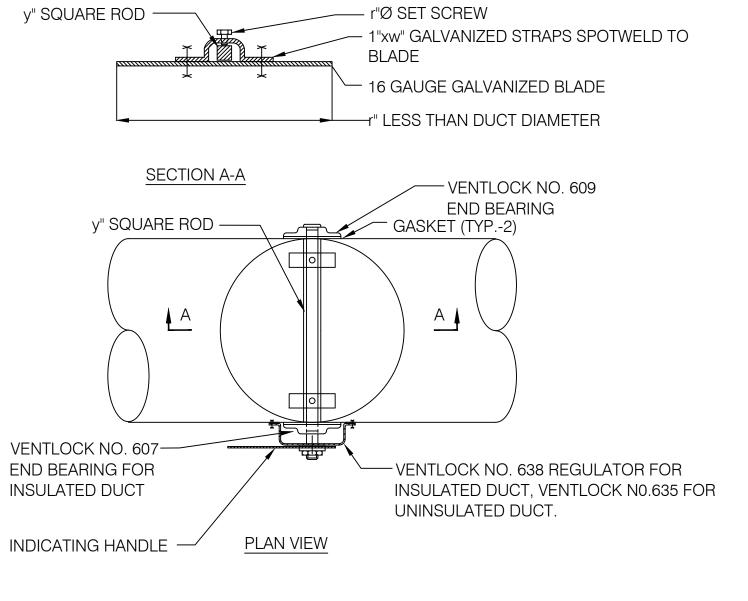
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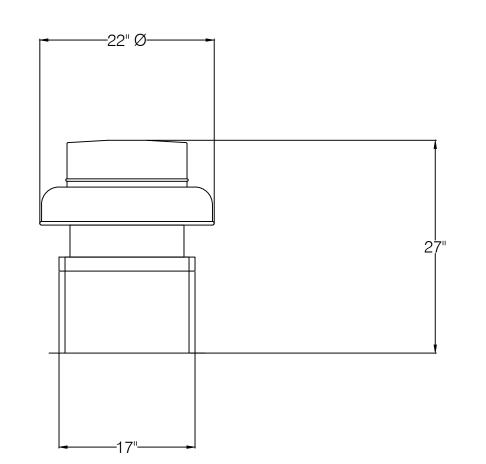
MECHANICAL **CALCULATIONS AND SCHEDULES**

M-0.2









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CIRCULAR DUCT CONICAL

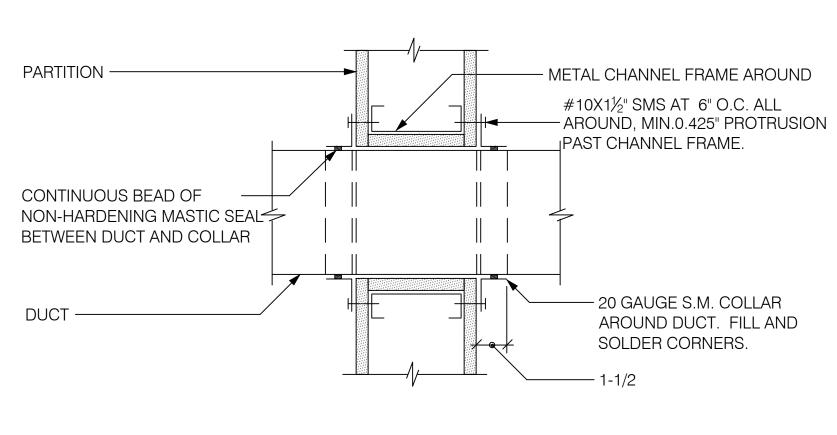
2 TAP WITH VOLUME DAMPER

SCALE: N.T.S.

ROUND VOLUME DAMPER

3 UP TO 14" DIAMETER, LOW PRESSURE

-- SCALE: N.T.S.

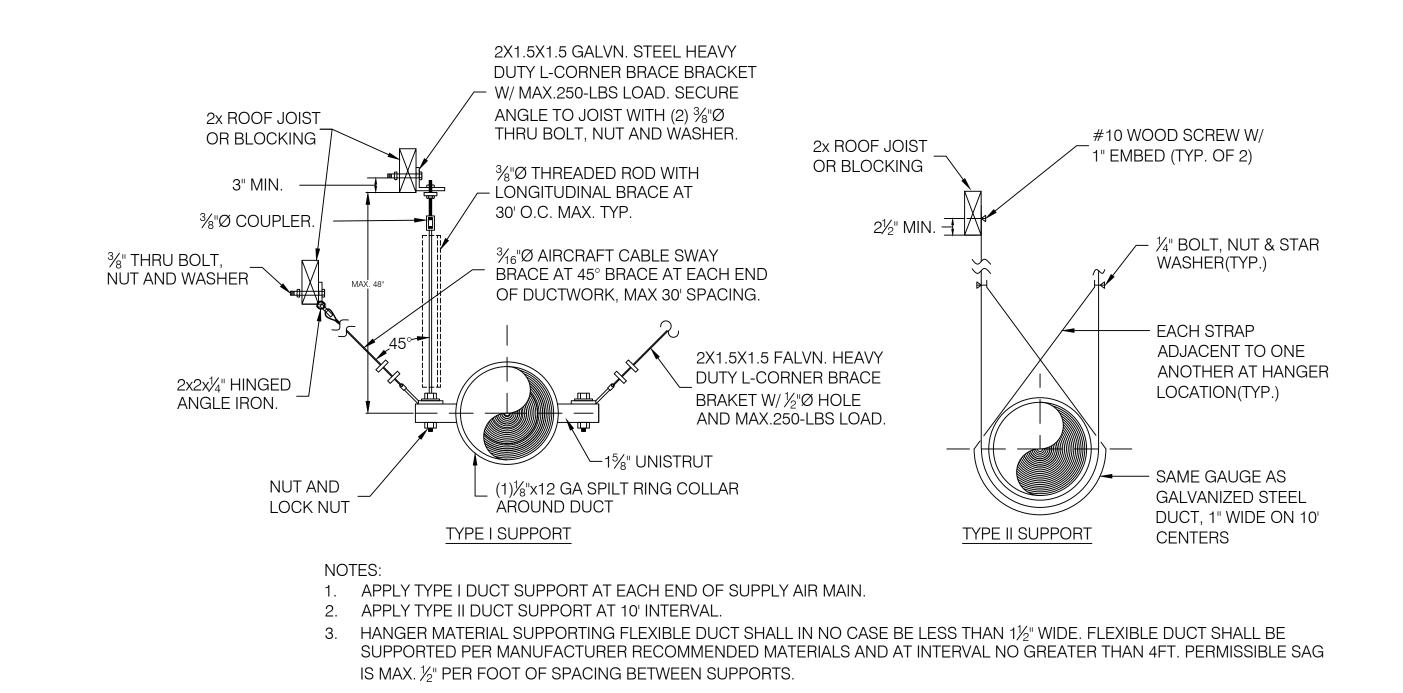


NOTE: DETAIL SIMILAR FOR ALL CONCEALED AND EXPOSED DUCTS THRU FULL HEIGHT NON-RATED PARTITION.
MAX. DUCT SIZE SHALL NO EXCEED 12-INCH IN EITHER DIMENSION AND PENETRATION SHALL NOT DAMAGE (E)WALL STUDS.

DUCT THROUGH

5 FULL HEIGHT NON-RATED PARTITION

SCALE: N.T.S.



NOT IN USE

6 DUCT SUPPORT DETAIL



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APP: 03-124069 INC:

DATE: 05/24/2024

ARCHITECT:

CO-AR DESIGN, INC.
680 Brea Canyon Road, Suite 178
Diamond Bar, California 91789
Office: 909-598-0186

Dennis J. Lee, NCARB dennisl@coardesign.com

PROJECT:



BLANDFORD ES KITCHEN MODERNIZATION

2601 BLANDFORD DRIVE ROWLAND HEIGHTS, CA 91748

ROWLAND UNIFIED SCHOOL DISTRICT

1830 NOGALES STREET
ROWLAND HEIGHTS, CA 91748

SUBMITTALS/ REVISIONS:

1 SCHEMATIC DESIGN

 1 SCHEMATIC DESIGN
 9/19/2023

 2 DESIGN DEVELOPMENT
 12/4/2023

 3 DSA SUBMITTAL
 02/26/2024

 4 DSA PC REVISION
 04/01/2024

PROJECT NO: 23071

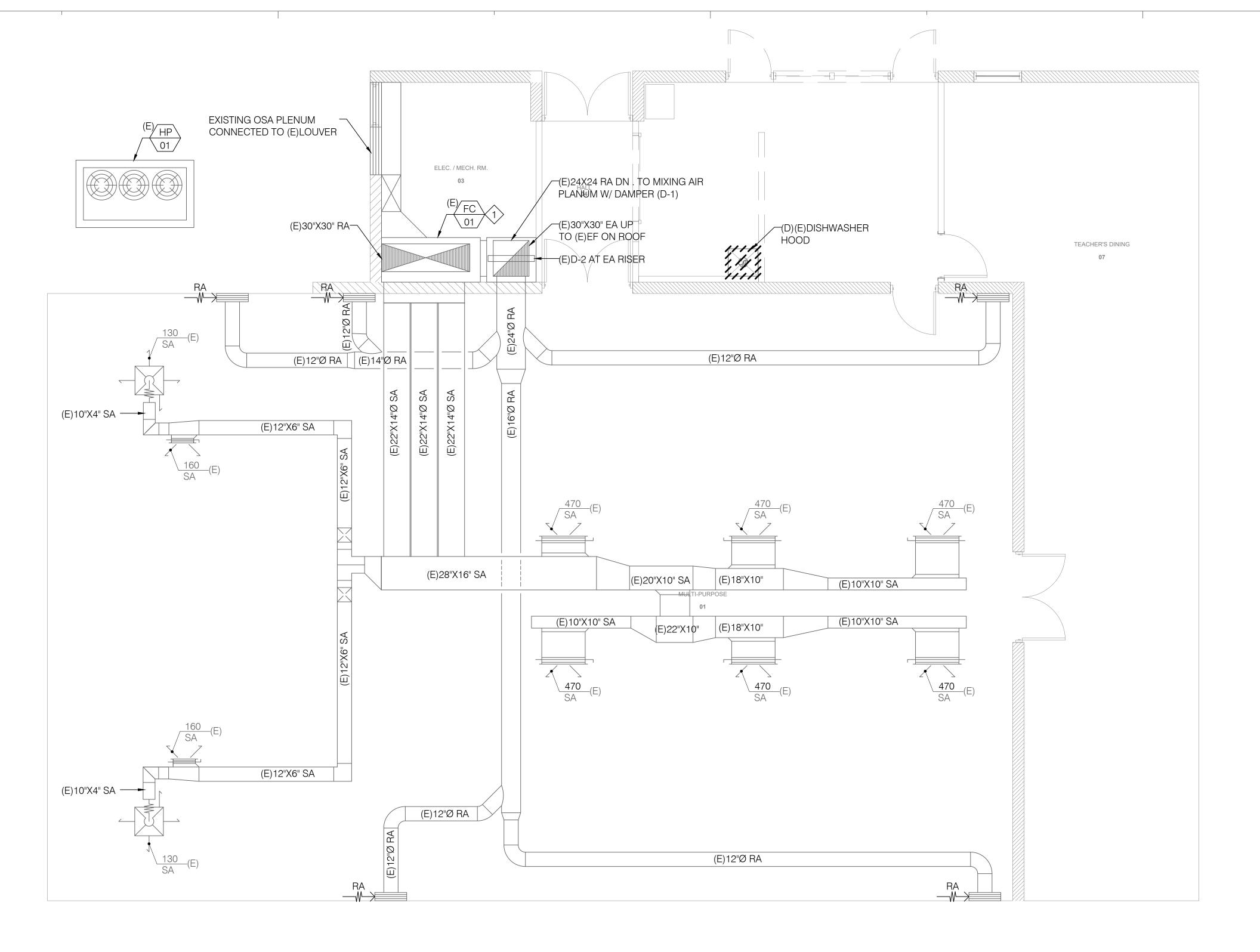
SCALE: AS SHOWN

DATE: 12/4/2023

DRAWN BY: CY / CL

MECHANICAL DETAILS

M-0.3



MECHANICAL REFLECTED CEILING PLAN - DEMO

SHEET NOTES:

- DEMOLITION EXISTING FAN COIL AND RETURN UNIT PROTECTED IN ORIGINAL CONDITION BACK TO OWNERSHIP WITH ALL ASSOCIATED COMPONENTS.. CONTRACTOR TO VERIFY EXACT LOCATION.
- CUT AND DEMOLITION EXISTING OSA DIFFUSER AND KEEP OPENING SEALED FOR EXTENSION. SEE DWG. 2 FOR CON'T.

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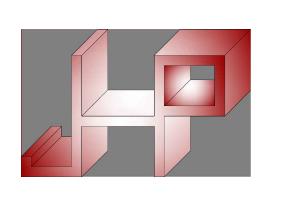
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4	DSA PC REVISION	04/01/2024

PROJECT NO: 23071

SCALE: AS SHOWN

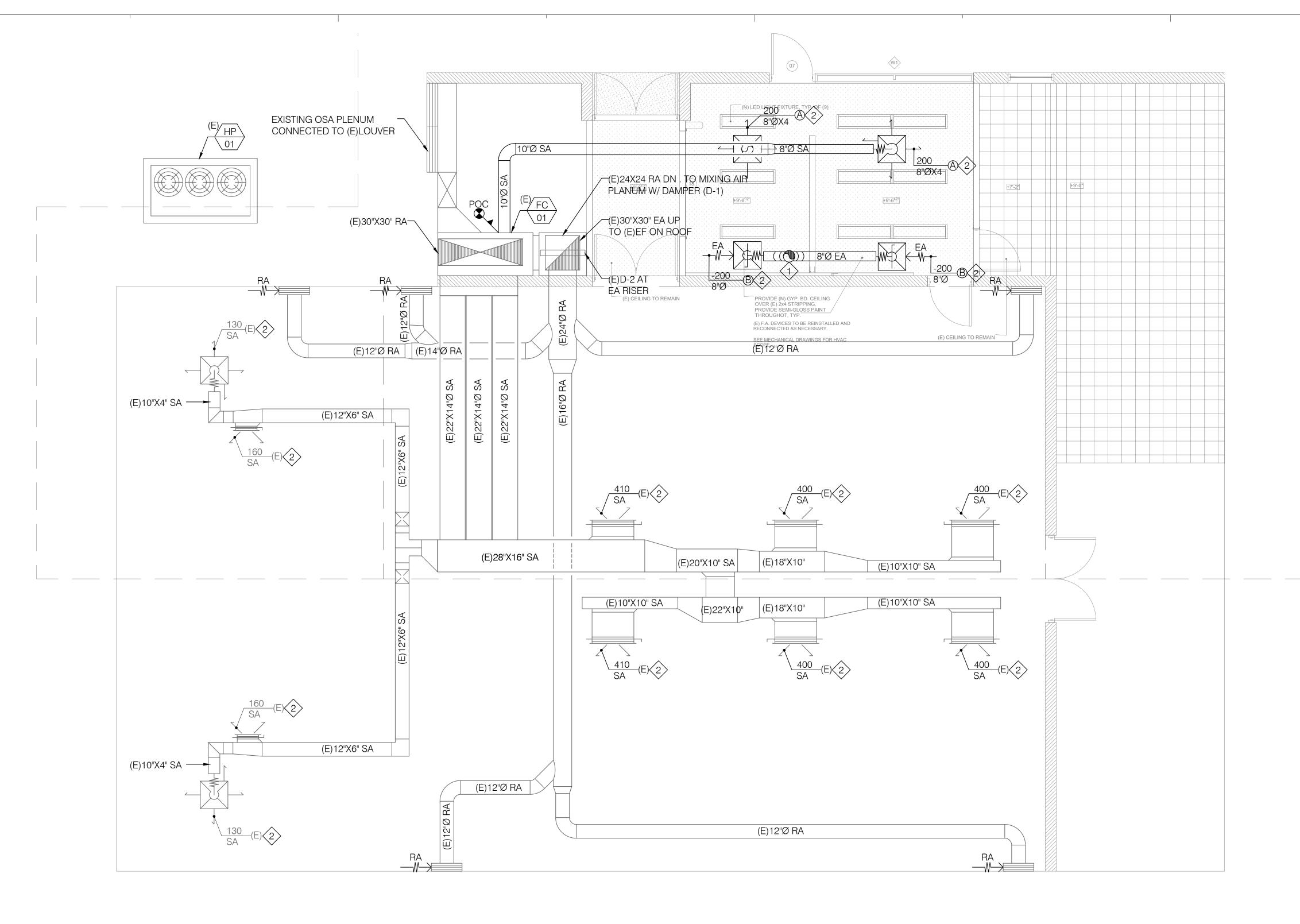
DATE: 12/4/2023

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CHECKED BY: JP

MECHANICAL REFLECTED CEILING PLAN - DEMO

M-1.0



2 MECHANICAL REFLECTED CEILING PLAN - NEW

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

SHEET NOTES:

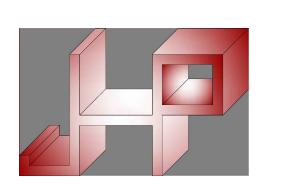
- 1> 14"Ø EA UP TO ROOF W/ 45° ELBOW AT BRANCH DUCT TAKE-OFF.
- 2 REBALANCE (E)AC SYSTEM PER NEW AIRFLOW RATE ON PLAN. TYPICAL.

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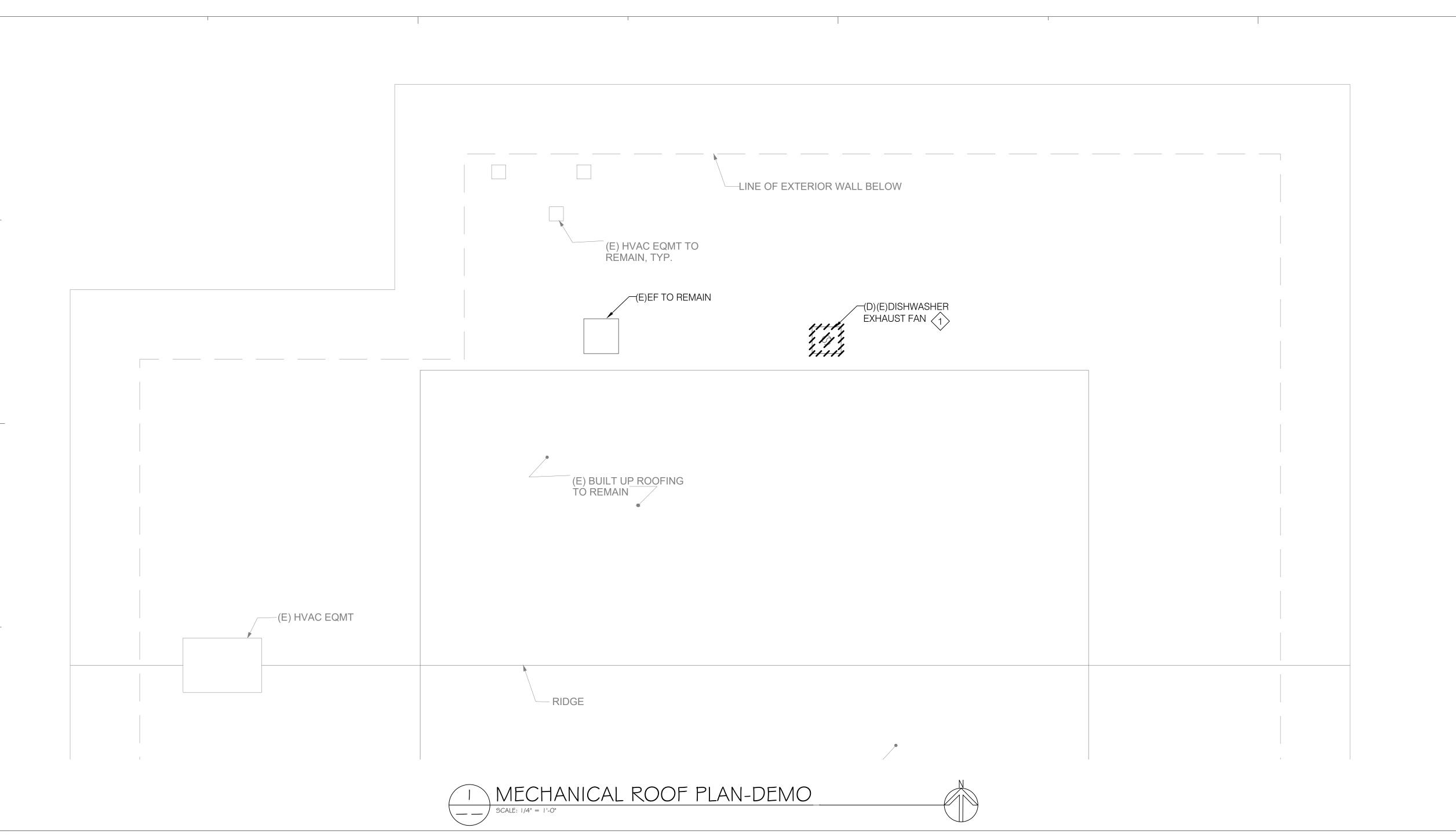
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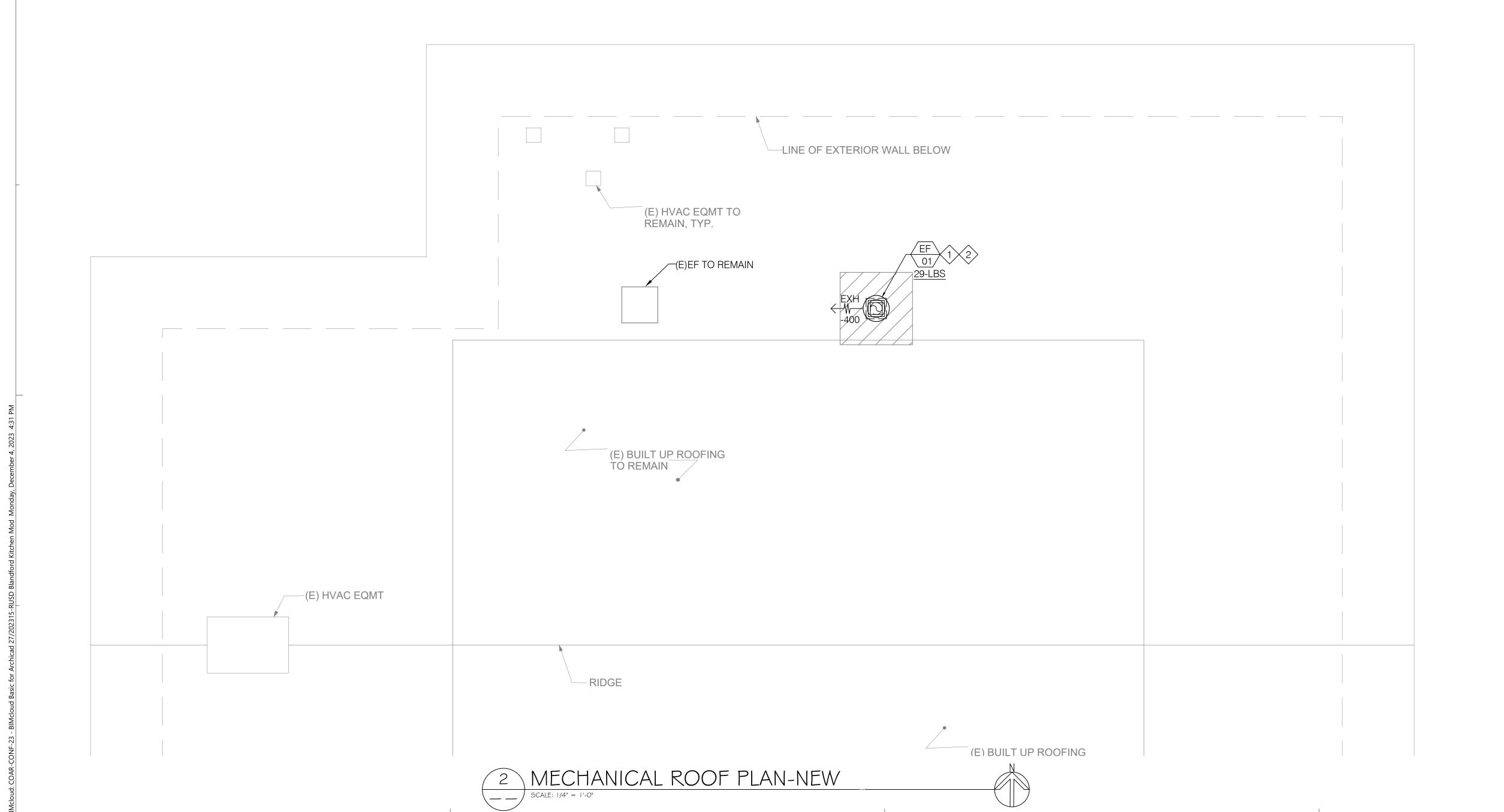
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MECHANICAL REFLECTED CEILING PLAN -NEW

M-1.1





SHEET NOTES:

1 DEMOLISH AND REMOVE EXISTING ROOF MOUNTED EXHAUST FAN. COORDINATE WITH GC FOR PREPARATION ROOF CURB FOR INSTALLATION OF NEW EXHAUST FAN. SEE DWG.2 FOR DETAILS.

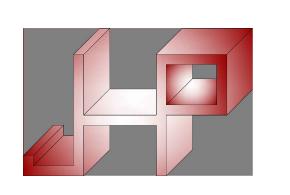
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SHEET NOTES:

(1) ROOF MOUNTED EXHAUST FAN W/ FACTORY ROOF CURB. SEE DWG.7/S-1.1 FOR ROOF OPENING DETAIL. AND SEE EQUIPMENT SCHEDULE FOR DETAILED REQUIREMENTS.

DISCHARGE OF ENVIRONMENTAL EXHAUST SHALL BE 3-FEET AWAY FROM PROPERTY LINE AND 10-FEET AWAY FROM OUTSIDE AIR INTAKE, AND 3-FEET AWAY FROM BL. OPENING.



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MECHANICAL ROOF PLAN

M-2.0

- CONTRACTOR SHALL VISIT JOB SITE TO VERIFY FIELD CONDITION AGAINST CONSTRUCTION PLAN AND SPECIFICATION. IDENTIFY POSSIBLE CONFLICT AND DISCREPANCY BETWEEN PLAN AND SITE CONDITION. AND BRING TO OWNER'S AND ENGINEER'S ATTENTION PRIOR TO ENTER CONTRACT.
- SUBMISSION OF A CONTRACT SHALL BE CONSTRUCTED AS EVIDENCE THAT A CAREFUL EXAMINATION OF THE PORTION OF THE EXISTING BUILDING, EQUIPMENT, SYSTEMS, SITE CONSTRAINTS, ETC, WHICH MAY AFFECT THE ASSOCIATED WORK SCOPE UNDER THIS CONTRACT, AND THE ACCESS TO SUCH SPACES, HAVE ALL BEEN MADE AND THAT THE CONTRACTOR IS FULL AWARE OF WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT THE EXECUTION OF WORK. LATER CLAIMS SHALL NOT BE MADE FOR LABOR, EQUIPMENT, OR MATERIAL REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN DURING SUCH EXAMINATIONS.
- BY ENTERING CONTACT OF CONSTRUCTION, WHETHER IT IS SHOWN OR NOT SHOWN ON THIS PLAN, CONTRACTOR IS FULLY RESPONSIBLE TO COMPLETE WORK WITH MEETING ALL APPLICABLE CODES, LAWS, AND REGULATIONS GOVERNING ANY PORTION OF THE WORK SCOPE ON PLAN AND SPECIFICATIONS. PRIOR TO SUBMITTING A PROPOSAL, CONTRACTOR SHALL FULLY UNDERSTAND AND COVER ALL COSTS WORK SCOPE AND MATERIALS TO MEET ALL APPLICABLE CODES, LAWS, AND REGULATIONS. ANY WORK DONE BY THE CONTRACTOR CAUSING SUCH VIOLATION SHALL BE CORRECTED BY THE CONTRACTOR.
- 4. CONTRACTOR IS TO REVIEW PLANS OF OTHER DISCIPLINES AND COORDINATE WITH THE WORK OF OTHER TRADES PRIOR TO INSTALLATION TO AVOID ANY CONFLICT. NO COST SHALL BE INCURRED ON CONSTRUCTABILITY ISSUE DUE TO LACK OF COORDINATION.
- 5. ALL WORK SHOWN ON PLAN ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEM AND WORK. INFORMATION ON PLAN SHALL NOT BE USED TO DETERMINE EXACT LOCATION OF INSTALLATION. WHERE INSTALLATION REQUIRES EXACT MEASUREMENTS AND COORDINATION WITH WORKS OF OTHER TRADE, CONTRACTOR SHALL PREFORM ALL REQUIRED WORK AND PROVIDE SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. THE CONTACTOR SHALL ALLOW IN HIS PRICE FOR WORK DONE WITH DEVIATIONS IN LOCATION AND METHOD TO AVOID OBSTRUCTIONS AND CONFLICT OF OTHER TRADES AND EXISTING UTILIZES OF BASE BUILDING.
- 6. CONTRACTOR SHALL SUBMIT SPECIFICATIONS OF ALL THE MATERIALS AND EQUIPMENT TO BE USED. ALONG WITH SHOP DRAWING WHERE REQUIRES IN SPECIFICATION FOR APPROVAL PRIOR TO ORDER.
- ALL NEW WORK CONNECTING TO EXISTING BASE BUILDING UTILITIES SHALL BE FULLY COORDINATED WITH REPRESENTATIVE OF OWNERSHIP TO RESULT MINIMUM INTERFERENCE TO EXISTING FACILITIES. TEMPORARY UTILITY SHUT-DOWN TO EXISTING BUILDING SERVICE SHALL BE APPROVED BY OWNERSHIP WITH WRITTEN CONSENT OF BUILDING OWNER AND SHALL INCURRED NO ADDITIONAL CHARGES FOLLOW ALL REQUIRED CLEANING PROCEDURES AND CONNECTION REQUIREMENT PRIOR TO ESTABLISH SERVICE AFTER CONNECTION. WHERE CONTINUOUS OPERATION OF EXISTING BUILDING SERVICES ARE REQUIRED, PROVIDE WORKMANSHIP AND MATERIAL FOR ISOLATION BETWEEN BUILDING AND PROJECT SPACE, RESTORE BUILDING SERVICE IMMEDIATELY WITH MAINTAINING ORIGINAL OPERATING CONDITION.
- CONTRACTOR SHALL STORE ALL EQUIPMENT AND MATERIAL IN A ORGANIZED AND CLEANED SPACE AT ALL TIME TO PREVENT FROM DAMAGING AND DETERIORATION PRIOR TO INSTALLATION. CONTRACTOR SHALL KEEP ALL PART OF THE CONSTRUCTION AREA AND ASSOCIATED ACCESSES CLEAN AND FREE OF DEBRIS RESULTING FROM EXECUTION OF WORK.
- 9. ALL LOCATION OF EXISTING UTILITIES ARE SHOWN BASED ON RECORD DRAWING OR INFORMATION PROVIDED BY SURVEYOR OR BASE BUILDING. CONTRACTOR IS RESPONSIBLE TO VERIFY EXACT LOCATION, SIZE, CONDITION, MATERIAL, AND INVERT AS APPLICABLE TO CONFIRM CONSTRUCTABILITY PRIOR TO INSTALL.
- 10. ALL EQUIPMENT INSTALLED SHALL BE PROVIDED WITH ACCESS AND CLEARANCES MEETING CODE REQUIREMENT AND REQUIREMENTS OF FACTORY INSTALLATION GUIDELINES FOR MAINTENANCE. WHERE ACCESS SHALL BE PROVIDED FOR OPERATION, INSPECTION, TESTING, BALANCING, MAINTENANCE, OR CODE COMPLIANCE, WHETHER SHOWN ON NOT SHOWN ON ARCHITECTURAL PLAN, CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR FOR PROVISION OF SUCH ACCESS.
- 11. ANY INVASIVE CONSTRUCTION, SUCH AS CORE-DRILLING, CUTTING, BORING, OPENING, TO EXISTING BUILDING FLOOR OR WALL, STRUCTURAL OR NON-STRUCTURAL RELATED, SHALL BE SUBJECTED TO WRITTEN APPROVAL BY REPRESENTATIVE OR OWNERSHIP OF BASE BUILDING. WHERE REQUIRED BY OWNER, PROVIDE SHOP DRAWING WITH DETAILED MEANS AND METHODS WITH DIMENSIONAL RESULTS OF X-RAY SCANNING AS EVIDENCE TO ENSURE NO DAMAGE WILL CAUSE TO EXISTING BUILDING STRUCTURE OR UTILITY PRIOR TO PERFORM SUCH WORK. NO CONSTRUCTION SHALL BE DONE IN RESULTING OF ANY DAMAGING OR DERATING OF BUILDING STRUCTURE INTEGRITY AND UTILITY SERVICEABILITY.
- 12. ANY OPENING MADE TO EXISTING BUILDING SHALL BE SUPPORTED, PATCHED, AND SEALED TO MEET ALL SPECIFICATION OF ORIGINAL CONSTRUCTION. ALL PENETRATION TO RATED ASSEMBLY SHALL BE PROTECTED BY UL LISTED FIRM AND/OR SMOKE PROTECTION ASSEMBLY TO MAINTAIN ORIGINAL ASSEMBLY FIRE AND SMOKE RATING.
- 13. CONTRACTOR SHALL PROVIDE INSURANCE POLICY IN ACCORDANCE TO BUILDING OWNER'S AND PROJECT OWNER'S REQUIREMENTS INCLUDING A HOLD HARMLESS CAUSE FOR OWNER AND ENGINEER ON RECORD.
- 14. FOR THE USE OF EQUIPMENT OR MATERIAL THAT ARE DIFFERENT FROM SCHEDULES OR SPECIFICATIONS, CONTRACTOR IS RESPONSIBLE TO PROVIDE, INCLUDING BUT NOT LIMITED TO, SPECIFICATION, CALCULATION, ENGINEERING, COST DIFFERENCE, ETC. FOR APPROVAL OF EQUAL AND OWNER'S APPROVAL
- 15. ALL WORK DONE SHALL BE GUARANTEED FOR A PERIOD OF TWO YEARS FROM DATE OF ACCEPTANCE OF WORK.
- 16. PRIOR TO FINAL ACCEPTANCE BY OWNER OR REPRESENTATIVE OF OWNER, CONTRACTOR IS RESPONSIBLE TO TEST, ADJUST, AND BALANCE ALL ASSOCIATED EQUIPMENT AND SYSTEM WITHIN SCOPE WITH PROVISIONS OF REPORTS WHERE REQUIRED IN SPECIFICATIONS TO DEMONSTRATE THAT ALL REQUIREMENTS OF PLANS AND SPECIFICATIONS ARE FULLY MET AND ALL APPLICABLE CODES, LAWS, AND REGULATIONS ARE FULLY COMPLIED.

PLUMBING GENERAL NOTES

- PROVIDE ISOLATED COUPLINGS AND/OR UNIONS AT POINTS OF CONNECTION BETWEEN COPPER, STEEL AND BRASS PIPING.
- 2. ALL WATER PIPING SYSTEMS AND DRAINAGE PIPING SYSTEMS, INCLUDING SUPPLY, WASTE AND DRAIN SHALL BE INSTALLED WITH VIBRATION ISOLATORS AND SHALL BE ISOLATED FROM ANY STRUCTURAL MEMBERS. WALL SECTIONS OR OTHER MATERIALS THAT COULD TRANSMIT SOUND TO THE OCCUPIED AREAS. ALL HANGERS. STRAPS. BRACKETS. AND SUPPORTS SHALL HAVE ACOUSTICAL COMPONENTS OR COMBINED NEOPRENE AND PLASTIC FOAM BY TECH SPECIALTIES, DIVISION OF SPECIALTY PRODUCTS CO. TO ISOLATE COMPLETE PIPE CONTACT AREA. ALL ISOLATION MATERIAL SHALL HAVE A MINIMUM THICKNESS OF 1/2". INSTALL ALL COMPONENTS AS PER MANUFACTURER'S INSTRUCTIONS.
- 3. INSTALL ALL CLEAN-OUTS WHERE REQUIRED BY ORDINANCES, AT ENDS OF HOUSE DRAINS, AT ALL CHANGES IN DIRECTIONS, IN ALL STRAIGHT RUNS AT 100 FOOT INTERVALS, WHERE HORIZONTAL MAINS CHANGE SIZE, AND AT ALL ENDS OF ALL BRANCH PIPES WHICH ARE 5' OR OVER IN LENGTH.
- 4. PLUMBING FIXTURES SHALL BE COMPLETED WITH ALL ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION.
- 5. SELECTION OF FAUCETS AND FITTINGS SHALL AVOID THE TYPE WITH POTENTIAL FOR LEAD CONTAMINATION.
- 6. INSTALL STOP VALVES ON HOT AND COLD WATER SUPPLIES TO EACH FIXTURE.
- 7. ALL FLOOR DRAIN MUST HAVE 1/2" COLD WATER LINE CONNECTED TO TRAP PRIMER. ALL UNDERGROUND. COLD WATER LINE SHALL BE ASTM TYPE-K HARD DRAWN COOPER INSTALLED WITH CONTINUOUS SLOPE TOWARD FLOOR DRAIN.
- 8. MATERIALS, METHODS AND LOCATIONS OF SERVICE MAINS CONNECTING THE NEW CONSTRUCTION TO ALL NEW AND EXISTING SERVICES SHALL BE IN STRICT ACCORDANCE WITH RULES, REGULATIONS, CODES AND REQUIREMENTS OF ALL AGENCIES HAVING JURISDICTION OVER THIS INSTALLATION. LOCATE ALL EXISTING STUBS TO BE CONNECTED TO IN THIS CONTRACT BEFORE WORK IS STARTED. COORDINATE LOCATION OF WATER AND SEWER CONNECTIONS WITH BUILDING ENGINEER.
- 9. CAULK AIRTIGHT ALL PLUMBING PENETRATIONS IN SOUND RATED WALLS AND FLOOR/CEILINGS. SEAL PENETRATIONS OF CONCRETE FLOORS WITH CEMENT GROUT. MINIMIZE PENETRATIONS THROUGH SOUND RATED CONSTRUCTION.

- 10. CONTRACTOR SHALL INSTALL ALL PLUMBING FIXTURES AND TRIM AS SHOWN ON THE ARCHITECTURAL PLANS. ROUGH-IN FOR ALL FIXTURES SHALL BE EXACTLY TO MEASUREMENTS FURNISHED BY FIXTURE MANUFACTURER. ALL EXPOSED PARTS TO BE CHROMIUM PLATED UNLESS SPECIFIED OTHERWISE.
- KEEP ROUGH-IN CUTS WITHIN THE PLATE LINES AND DO NOT CUT COMPLETELY THROUGH PLATES IN SOUND-RATED WALLS. DRILL OR SAW NEAT ROUND HOLES FOR ALL PIPING. SIZE APPROXIMATELY 1/2 INCH LARGER THAN THE PIPE DIAMETER.
- 12. PIPE LINES SHALL BE INSTALLED FREE FROM TRAPS AND AIR POCKETS AND TRUE TO LINE AND GRADE WITH SUITABLE SUPPORTS PROPERLY SPACED. PIPING SHALL BE INSTALLED WITHOUT UNDUE STRESSES AND WITH PROVISION FOR EXPANSION AND CONTRACTIONS.
- 13. HORIZONTAL LINES SHALL HAVE HANGERS OR SUPPORTS SPACED AS FOLLOWS:
 - A. CAST IRON PIPE 5' CENTERS
 - B. STEEL PIPE 10' CENTERS C. COOPER TUBING - 5' CENTERS FOR 1-1/2" AND SMALLER, 10' CENTERS FOR 2" AND LARGER
- 14. PIPING SHALL BE NEW AND FREE FROM FOREIGN SUBSTANCES. REAM OUT ALL BURRS FORMED IN CUTTING PIPE. THREADS SHALL BE CUT ACCURATELY AND NOT OVER TWO THREADS SHALL SHOW BEYOND THE FITTING. FRICTION WRENCHES SHALL BE USED WITH PLATED POLISHED, OR SOFT METAL PIPING.
- CHANGES IN PIPE SIZE SHALL BE MADE WITH REDUCING FITTINGS. AND BUSHING WILL NOT BE PERMITTED.
- 16. UNION CONNECTION SHALL BE INSTALLED DOWNSTREAM OF ALL VALVES, AT ALL EQUIPMENT CONNECTIONS AND AT OTHER POINTS AS REQUIRED.
- 17. CUTTING OR BORING OF HOLES THROUGH STRUCTURAL MEMBERS SHALL BE DONE ONLY WHEN IT IS IMPOSSIBLE TO ROUTE PIPING IN ANOTHER MANNER. IF CUTTING OR BORING IS NECESSARY IT SHALL BE ACCOMPLISHED ONLY BY WRITTEN APPROVAL FROM THE ARCHITECT, STRUCTURAL AND BUILDING ENGINEER, AND ALSO INCLUDED IN HIS BIDS. WORK SHALL COMPLY WITH CBC SECTIONS 2320A.8.3 AND 2320A.11.10.
- 18. DO NOT ALLOW THE PIPING, VALVES OR CONNECTORS TO FORM A RIGID CONNECTION WITH THE STRUCTURE OR OTHER PIPES. INSTALL PIPING TO ALLOW FOR EXPANSION AND CONTRACTION WITHOUT STRESSING PIPE, JOINTS OR CONNECTED EQUIPMENT.
- 19. PROVIDE SIOUX CHIEF WATER HAMMER ARRESTER FOR EACH PLUMBING FIXTURE BANK AND 18" HIGH AIR CHAMBER FOR EACH PLUMBING FIXTURE. SIZE OF WATER HAMMER ARRESTER SHALL BE SUFFICIENT TO HANDLE THE REQUIRED FIXTURE UNIT AT EACH BANK.
- 20. THE DOMESTIC WATER SUPPLY AND DISTRIBUTION SYSTEM WITHIN THE AREA OF WORK SHALL BE STERILIZED WITH CHLORINE IN SOLUTION IN ACCORDANCE WITH AMERICAN WATER WORKS ASSOCIATION PUBLICATION C-601-1954.
- 21. PRESSURE TEST ENTIRE HOT AND COLD PIPING AND DRAINAGE SYSTEM FROM CAPPED CONNECTIONS, TO AND INCLUDING VENTS.
- 22. HOT WATER PIPING TO BE INSULATED PER CODE.
- 23. PROVIDE ACCESS PANEL FOR ALL STUB OUTS ENDED INSIDE CEILING OR WALL
- 24. THREADED FITTINGS: ANSI/ASME B16.3 BLACK MALLEABLE IRON
- 25. SOCKET-WELDING FITTINGS: ANSI B16.11 FORGED STEEL
- 26. BUTT-WELDING FITTINGS: ANSI/ASME B16.9 WROUGHT STEEL WITH BACKING RINGS OF COMPATIBLE MATERIAL.
- 27. UNIONS: ASME/ANSI B16.39 BLACK MALLEABLE IRON.
- 28. FLANGES AND FLANGED FITTINGS: ASME/ANSI B16.5 STEEL FLANGES OR CONVOLUTED STEEL FLANGES FLANGE FACES SHALL HAVE INTEGRAL GROOVES OF RECTANGULAR CROSS SECTION WHICH AFFORD CONTAINMENT FOR SELF-ENERGIZING GASKET MATERIAL
- 29. THREADED JOINTS: WHERE POSSIBLE USE PIPE WITH FACTORY-CUT THREADS, OTHERWISE CUT PIPE LENGTHS ACCORDINGLY WITH ANSI/ASME B1.20.1. PROVIDE THREADS SMOOTH, CLEAN, AND FULL-CUT. APPLY ANTI-SEIZE PASTE OR TAPE TO MALE THREADS PORTION. WORK PIPING INTO PLACE WITHOUT SPRINGING OR FORCING. BACKING OFF TO PERMIT ALIGNMENT OF THREADED JOINTS WILL NOT BE PERMITTED. ENGAGE THREADS SO THAT NOT MORE THAN TWO THREADS REMAIN EXPOSED. USE UNIONS FOR CONNECTIONS TO VALVES, METERS FOR WHICH A MEANS OF DISCONNECTION IS NOT OTHERWISE PROVIDED.
- 30. WELDED JOINTS: WELD BY THE SHIELDED METAL-ARC PROCESS, USING COVERED ELECTRODES AND IN ACCORDANCE WITH PROCEDURES ESTABLISHED AND QUALIFIED IN ACCORDANCE WITH ASME B31.8. SOLDER IN ACCORDANCE WITH ASTM B32 SHALL BE APPLIED TO THE JOINT SURFACES UNTIL CAPILLARY ACTION DRAWS THE MOLTEN SOLDER INTO THE CAP. SOLDER AND FLUXES WITH A LEAD CONTENT THAT EXCEEDS 0.2 PERCENT SHALL BE PROHIBITED IN PIPING SYSTEM CONVEYING POTABLE WATER.
- 31. FLANGED JOINTS: USE FLANGED JOINTS FOR CONNECTING WELDED JOINT PIPE AND FITTINGS TO VALVES TO PROVIDE FOR DISCONNECTION. INSTALL JOINTS SO THAT FLANGE FACES BEAR UNIFORMLY ON GASKETS. ENGAGE BOLTS SO THAT THERE IF COMPLETE THREADING THROUGH THE NUTS AND TIGHTEN SO THAT BOLTS ARE UNIFORMLY STRESSED AND EQUALLY TORQUE.
- 32. USE TEST PRESSURE OF 50 PSIG. DO NOT TEST UNTIL EVERY JOINT HAS SET AND COOLED AT LEAST 8 HOURS AT TEMPERATURES ABOVE 50 DEGREES F. TEST PIPING SYSTEM FOR AT LEAST 4 HOURS WITHOUT PRESSURE LOSS OR VISIBLE LEAKS.
- 33. PLUMBING FIXTURE CONNECTION SIZE: SEE PLAN.
- 34. ALL HOT WATER PIPE SHALL BE INSULATED WITH INSULATION PER 2022 TITLE 24 STANDARD. MINIMUM 1"-THICK INSULATION FOR PIPE LESS THAN 1"Ø AND MINIMUM 1½"-THICK INSULATION FOR PIPE LARGER THAN OR EQUAL TO 1"Ø.
- 35. PRESSURE PIPING AND FITTING:
 - DOMESTIC COLD AND HOT WATER (ABOVE GRADE): HARD DRAWN DEOXIDIZED WATER SERVICE TUBING CONFORMING TO ASTM B88, TYPE "L". PROVIDE 125 PSI FLANGE AT CHANGE OF MATERIAL **LOCATIONS**
 - B. DOMESTIC COLD AND HOT WATER (BELOW GRADE): HARD DRAWN DEOXIDIZED WATER SERVICE TUBING CONFORMING TO ASTM B88, TYPE TYPE "K".
 - C. FITTINGS FOR COPPER WATER TUBING: ANSI B16.22 WROUGHT COPPER SOLDER-JOINT FITTING. D. TRAP PRIMER PIPING (UNDERGROUND): HARD DRAWN DEOXIDIZED WATER SERVICE TUBING CONFORMING TO ASTM B88, TYPE "K", WROUGHT COPPER FITTING AND BRAZED JOINT.
 - E. HARRIS, ENGELHARD, OR EQUAL, BCUP FILLER MATERIAL FOR BRAZING OF COPPER FITTING JOINTS. BRAZE JOINTS FOR COLD WATER PIPING 2-1/2" AND LARGER. BRAZE JOINTS FOR HOT WATER PIPING 2-1/2" AND LARGER.
- 36. SANITARY AND GREASE WASTE DRAINAGE PIPING AND FITTING:
 - A. CAST IRON SOIL PIPE AND FITTINGS (ABOVE FLOOR): REQUIRED CISPI 301 & 310 WHICH COMPLIANCE WITH HUD UM 77A CAST IRON HUBLESS SOIL PIPE AND FITTING. ALL PIPE AND FITTINGS SHALL BE MARKED WITH CISPI'S COLLECTIVE TRADEMARK OR RECEIVE PRIOR APPROVAL BE THE ENGINEER OF RECORD. JOINTS FOR HUBLESS PIPE AND FITTINGS: CISPI 310 AND SHALL CONFORM TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND LOCAL CODE REQUIREMENTS. ANACO "HUSKY SD 4000, CLAMP-ALL 125, TYLER WB, MG COUPLINGS, OR EQUAL, COMPLY WITH FM 1680, CLASS 1
 - B. CAST IRON SOIL PIPE AND FITTINGS (BELOW SLAB): ASTM A74 STANDARD WEIGHT HUB AND SPIGOT PIPING AND FITTING. ALL PIPE AND FITTINGS SHALL BE MARKED WITH CISPI'S COLLECTIVE TRADEMARK OR RECEIVE PRIOR APPROVAL BE THE ENGINEER OF RECORD. JOINT FOR HUB AND SPIGOT PIPE AND FITTINGS: ASTM C-564 COMPRESSION GASKETS OR SHALL BE INSTALLED WITH LEAD AND OAKUM.
 - C. COPPER DRAINAGE PIPING AND FITTINGS (ABOVE FLOOR): ASTM B306 DWV TYPE COPPER TUBING AND ANSI B16.23 CAST BRONZE SOLDER-JOINT DRAINAGE TYPE FITTING. PROVIDE MISSION. OR EQUAL, CISPI 310 ADAPTOR COUPLING WITH NEOPRENE GASKET AND STAINLESS STEEL SHIELD WITH TWO BANDS.
 - D. CONDENSATE PIPING AND FITTINGS: ASTM B88 HARD DRAWN DEOXIDIZED. TYPE M COPPER TUBING WITH ANSI B16.22 WROUGHT COPPER WYES AND LONG RADIUS SOLDER-JOINT FITTINGS.

- 37. ALL FIXTURES, EQUIPMENT, PIPING AND MATERIALS SHALL BE LISTED.
- 38. ALL FAUCETS IN PUBLIC RESTROOMS SHALL BE SELF-CLOSING OR SELF-CLOSING METERING FAUCETS.
- 39. PUBLIC LAVATORIES SHALL HAVE CONTROLS TO LIMIT THE WATER TEMPERATURE TO 120°F
- 40. ALL NATURAL GAS COOKING EQUIPMENT SHALL BE EQUIPPED WITH QUICK DISCONNECT GAS HOSE CONNECTION AND RESTRAINING CABLE ATTACHED TO THE EQUIPMENT.
- 41. ALL PLUMBING FIXTURES AND FITTING SHALL MEET THE STANDARDS REFERENCED IN TABLE 1701.1 OF THE 2022 CPC CGBSC CHAPTER 6. CGBSC SECTION 5.303.6.
- 42. ALL CLEAN-OUTS SHALL BE INSTALLED AS PER SEC. 707.0 & 719.0 OF LATEST CPC.
- 43. WATER SUPPLY AND DRAIN PIPES UNDER ACCESSIBLE LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE BE CONFIGURED. TO PROTECT AGAINST CONTACT. PROTECTORS, INSULATORS, OR BOTH SHALL COMPLY WITH ASME A 112.18.9.
- 44. ALL HOSE BIBBS AND FAUCETS CONNECTED TO NON-POTABLE WATER LINES SHALL BE POSTED "CAUTION" NON-POTABLE WATER, DO NOT DRINK".
- 45. ALL NEW POTABLE WATER SYSTEMS SHALL BE DISINFECTED PRIOR TO USE ACCORDING TO SECTION 609.9(1-3) OF THE LATEST PLUMBING CODE.

DRAWING INDEX

- PLUMBING GENERAL NOTES, LEGENDS, INDEX, CODE AND SCOPE OF WORK AND ABBREVIATION P-0.2 PLUMBING CALCULATIONS AND SCHEDULES
- PLUMBING DETAILS P-0.3 PLUMBING DEMOLITION PLAN

PLUMBING PLAN NEW

PLUMBING ROOF PLAN

P-1.1

SCOPE OF WORK

- 1. DEMOLISH AND REMOVE EXISTING PLUMBING FIXTURES WITH ALL ASSOCIATED PIPING AND COMPONENTS BACK TO MAIN AND SEAL WATERTIGHT.
- 2. INSTALL NEW PLUMBING FIXTURES PER PLAN AND SCHEDULE.
- 3. INSTALL NEW DOMESTIC WATER PIPING SYSTEM TO NEW PLUMBING FIXTURES WITH RE-CONNECTING BACK TO EXISTING HOT/COLD WATER MAIN.
- 4. INSTALL NEW WASTE AND VENT PIPING SYSTEM TO NEW PLUMBING FIXTURES WITH RE-CONNECTING BACK TO EXISTING WASTE AND VENT MAIN.

APPLICABLE CODE

- 2022 CALIFORNIA BUILDING CODE 2022 CALIFORNIA MECHANICAL CODE 2022 CALIFORNIA PLUMBING CODE 2022 CALIFORNIA ENERGY CODE
- 2022 CALIFORNIA FIRE CODE 2022 CALIFORNIA GREEN BUILDING CODE 2022 NFPA 13
- ALL AMENDMENTS AND SUPPLEMENTS TO ABOVE CODES ALL CITY OF ROWLAND HEIGHTS ORDINANCES AND AMENDMENTS TO ABOVE CODES REGULATIONS OF DIVISION OF THE STATE ARCHITECT AND STANDARDS OF ROWLAND HEIGHTS UNIFIED SCHOOL DISTRICT
 - PLUMBING SEISMIC ANCHORAGE BRACING AND SUPPORT NOTES

MEP EQUIPMENT ANCHOARAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS DESCRIBED IN THE 2022 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26 AND 30:

- 1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
- 2. TEMPORARY OR MOVABLE 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 CORD.
- 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 TRAVERSE AND LONGITUDINAL DIRECTIONS:

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

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

- PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE
- PIPING. DUCTWORK. AND ELECTRICAL DISTRUBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.126.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS

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

MP \square MD \square PP \square E \square - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL

LE	GENDS, SYMBOLS	AND ABBREVIATIONS
SYMBOL		DESCRIPTION
UP LO	<u> </u>	EQUIPMENT TYPE EQUIPMENT NUMBER
0 M-?	<u>. </u>	DETAIL DRAWING NUMBER DETAIL DRAWING PAGE
	POC	POINT OF CONNECTION
•	POD	POINT OF DISCONNECT
•		PLUMBING FIXTURE CONNECTION
=	CO	CLEAN OUT
C	DN.	PIPE DOWN
0	UP	PIPE UP
>		FLOW DIRECTION
	TP	TRAP PRIMER W/ WALL ACCESS PANEL
\bowtie	SOV	SHUT-OFF VALVE
	CKV	CHECK VALVE
	GCK	GAS COCK
lacktriangle	FD	FLOOR DRAIN
>	PR	PIPE REDUCER
<u> </u>	WCO	WALL CLEAN-OUT
\ominus	FCO	FLOOR CLEAN-OUT
₩ + + • •	BDV	STRAINER WITH BLOWDOWN VALVE
₿	BV	BALANCING VALVE
	PR	NATURAL GAS PRESSURE REGULATOR
LINE TYPE	ABBREV.	DESCRIPTION

-///////	<u>~</u>	(D)	PIPE TO E	BE REMOVED
	_	(E)	EXISTING	PIPE TO REMAIN
— G—	-	G.	NATURAL	GAS
—HWS—	-	HWS	HOT WAT	ER SUPPLY
	-	CW	COLD WA	ATER SUPPLY
FW	-	FW	FILTER W	/ATER
	_	SW	SANITAR	Y WASTE
	-	GW	GREASE	WASTE
	-	V	VENT PIP	E
——CD—	_	CD	CONDEN	SATE DRAIN
CWS	-	CWS	CONDEN	SER WATER SUPPL
—CWR—	-	CWR	CONDEN	SER WATER RETUR
ABBR.	DESCRIPTION		ABBR.	DESCRIPTION
AFF	ABOVE FINISHED F	LOOR	ICS INS	IN CEILING SPA
B.G.	BELOW GRADE		CVII	INSULATION (T

ABBR.	DESCRIPTION	ABBR.	DESCRIPTION
AFF	ABOVE FINISHED FLOOR	ICS INS	IN CEILING SPACE INSULATION (THERMAL)
B.G.	BELOW GRADE	1110	THE SEL THE TOTAL (THE TIME TE
BLDG BSMT	BUILDING BASEMENT	MA	MAKE-UP AIR
20	5, (C2, W2, V)	NIC	NOT IN CONTRACT
CFF	CAP FOR FUTURE		
CLG	CEILING	OSA	OUTSIDE AIR (FRESH AIR)
CSD	CEILING SUPPLY DIFFUSER		
		POC POIN	T OF CONNECTION
EA	EXHAUST AIR	RA	RETURN AIR
DN	DOWN	MA	RETURN AIR
DIN	DOWN	SA	SUPPLY AIR
FA	FRESH AIR	SAD	SEE ARCHITECTURAL DRAWING
.,.		SOV	SHUT-OFF VALVE
FL	FLOOR	SRR	SIDEWALL RETURN REGISTER
FR	FROM		
		UTR	UP THROUGH ROOF
FR	FROM	U.G.	UNDERGROUND/BELOW GRAD

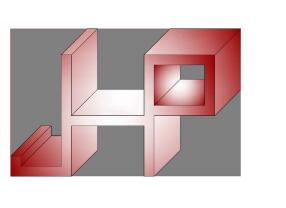
GREASE EXHAUST

KITCHEN EXHAUST AIR

VENT THROUGH ROOF

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BLANDFORD ES KITCHEN MODERNIZATION

2601 BLANDFORD DRIVE ROWLAND HEIGHTS, CA 91748 **ROWLAND UNIFIED SCHOOL DISTRICT 1830 NOGALES STREET**

ROWLAND HEIGHTS, CA 91748

SUBMITTALS/ REVISIONS: SCHEMATIC DESIGN B DSA SUBMITTAL 02/26/2024 4 DSA PC REVISION 04/01/2024

AS SHOWN CHECKED BY:

PLUMBING GENERAL NOTES, SCOPE OF WORK, CODE, INDEX AND **STATEMENT**

PLUMBING EQUIPMENT SCHEDULES, CALCULATION, AND TABLES

	PLUMBING FIXTURE SCHEDULE*									
TAG	FIXTURE	MAX. WATER USAGE	DESCRIPTION							
<u>FD-1</u>	FLOOR DRAIN	N/A	ZURN/ZN-415-B. CAST IRON BODY, NO HUB WITH SEEPAGE PAN AND FLAT, ROUND NICKEL BRONZE STRAINERS NOT LESS THAN 5"Ø DIAMETER FOR 2"Ø OUTLET BODIES, 7"Ø FOR 3"Ø OUTLET BODIES AND 8"Ø FOR 4"Ø OUTLET BODIES, WITH MAXIMUM OF ½"Ø SQUARE HOLES OR SLOTS NOT LARGER THAN ¼"Ø BY 1¼"Ø.							
<u>FS-2</u>	FLOOR SINK	N/A	ZURN/Z1901 OR ZN-1900, 6"Ø TO 8"Ø DEEP, SQUARE CAST IRON ACID-RESISTANT ENAMEL, BOTTOM ALUMINUM DOME STRAINER WITH NICKEL BRONZE RIM AND GRATE TOP.							
<u>A11</u>	HAND SINK	0.5-GPM	SEE EQUIPMENT SCHEDULE ON ARCHITECTURAL PLAN FOR FIXTURE DETAILS.							
<u>A14</u>	MOP SINK	1.28-GPM	SEE EQUIPMENT SCHEDULE ON ARCHITECTURAL PLAN FOR FIXTURE DETAILS.							
<u>A18</u>	3-COMP SINK	1.5-GPM	SEE EQUIPMENT SCHEDULE ON ARCHITECTURAL PLAN FOR FIXTURE DETAILS.							

ALL PLUMBING FIXTURES AND FITTING SHALL MEET THE STANDARDS REFERENCED IN TABLE 604.1 AND TABLE 701.2 OF 2022 CALIFORNIA PLUMBING CODE. ALSO SEE DIV. 23 SEC. 22-1000 FOR DETAILED SPECIFICATIONS

CPC 1208.6.

HOT WATER HEATER - 01 (WH-01) SIZING

APPENDIX E									
HOT WATER DEMANDS									
FIXTURES	NO. OF UNITS	X	GPH	=	TOTAL GPH				
(E)LAVATORY	2	х	5.0	=	10.0				
(E)#KS KITCHEN SINK	1	х	5.0	=	5.0				
#A11 HAND SINK	1	х	5.0	=	5.0				
#A14 MOP SINK	1	X	25.0	=	25.0				
#A18 3-COMP-SINK	1	x	45.0	=	45.0				
		x		=					
		Х		=					
		х		=					

Calculating the BTU (British Thermal Units) for kitchen gas water heater:

_____85 ___ GHP x__ 80 _ degrees rise x 11* = 74,800 BTU< 199,999 BTU BY (E) WATER HEATER *8.33 lbs./gal. of water = 11.1 (rounded off = 11) 0.75 (thermal efficiency of gas)

The gas hot water heater with at least a rating of _____ II. Calculating the KW (kilowatt) requirement for kitchen electric water heater:

Please make the necessary changes or alterations, as indicated above, for the minimum supply of hot water for the food establishment. The recovery rate of the properly sized water heater must meet the peak demands of the total GPH.

EHD 16-01 07-29-2010 PLAN CHECK GUIDE

PLUMBING MATERIAL SCHEDULE*										
ITEM	LOCATION	SPECIFICATIONS								
DOMESTIC COLD WATER PIPE	ABOVE GRADE	TYPE L COPPER. PIPE SHALL CONFORM WITH ASTM-(B42, B43, B75, B88, B135, B251, B302, B447). PIPE FITTING SHALL CONFORM WITH ASTM-(B16.15, B16.18, B16.22, B16.26, B16.50, B16.51), ASSE 1061.								
DOMESTIC COLD WATER PIPE	BELOW GRADE	TYPE K COPPER. PIPE SHALL CONFORM WITH ASTM-(B42, B43, B75, B88, B135, B251, B302, B447). PIPE FITTING SHALL CONFORM WITH ASTM-(B16.15, B16.18, B16.22, B16.26, B16.50, B16.51), ASSE 1061.								
SANITARY WASTE AND VENT PIPE	ABOVE GRADE	CAST IRON NO-HUB. PIPE SHALL CONFORM WITH ASTM-D2661, ASTM D2680. PIPE FITTING SHALL CONFORM WITH ASTM D2661, ASTM D2680								
SANITARY WASTE AND VENT PIPE	BELOW GRADE	CAST IRON NO-HUB. PIPE SHALL CONFORM WITH ASTM-D2661, ASTM D2680. PIPE FITTING SHALL CONFORM WITH ASTM D2661, ASTM D2680								

SCHEDULE SHOWN FOR QUICK REFERENCE ONLY. SEE COMPLETE MATERIAL SPECIFICATIONS ON

STANDARDS IN TABLE 701.2. MATERIALS FOR BUILDING WATER PIPING AND BUILDING SUPPLY PIPING

ALL METALLIC NATURAL GAS PIPE AND JOINTING SHALL COMPLY WITH STANDARDS LISTED UNDER

MATERIALS FOR DRAINAGE PIPING SHALL BE IN ACCORDANCE WITH ONE OF THE REFERENCED

SHALL COMPLY WITH THE APPLICABLE STANDARD REFERENCED IN TABLE 604.1.

PLUMBING FIXTURE UNIT (FU) CALCULATION FIXTURE WATER SANITARY WASTE TOTAL TAG TYPE QTY EACH TOTAL QTY EACH FLOOR SINK 4.0 <u>FS</u> N/A 4.0 FLOOR DRAIN N/A 2.0 4.0 TRAP PRIMER 1.0 1.0 N/A (E)KS KITCHEN SINK 1.5 1.0 1.5 1.0 HAND SINK 1 1.0 1.0 1.0 1.0 A11 A14 MOP SINK 1 3.0 3.0 3.0 3.0 3-COMP-SINK ** A18 1 4.0 4.0 ** FOOD WASTE DISPOSER 1.0 1.0 TOTAL FU 10+(E)15*=2513

WATER SUPPLY SYSTEM: (PER 2022 CPC TABLE 610.4, 46~60 PSI) DISTANCE TO MOST REMOTE FIXTURE = 200 FT.

MIN. REQUIRED SIZE OF WATER METER/MAIN: 1"Ø METER/ 11/4"Ø MAIN

EXISTING METER AND COLD MAIN: (E) 1"Ø METER/ (E) 2"Ø MAIN

WASTE AND VENT SYSTEM: (PER 2022 CPC TABLE 703.2

MINIMUM REQUIRED SIZE OF WASTE MAIN: 3"Ø SW

EXISTING BUILDING WASTE MAIN: 3"Ø SW PROVIDED PLUMBING WASTE MAIN: (E)3"Ø SW

MINIMUM REQUIRED SIZE OF VENT PIPE: (1) 3"Ø V. PROVIDED PLUMBING VENT: (1) 3"Ø V

* FIXTURE UNIT COUNT AT EXISTING BATHROOM. N.I.C.

	MINIMUM PL	LUMBING F	FIXTURE BI	RANCH PI	PE SIZE*		
TAG	FIXTURE	WASTE	TRAP	VENT	CW	HW	REMARK
<u>FD</u>	FLOOR DIAIN	2"Ø	2"Ø	**			
<u>FS</u>	FLOOR DIAIN	3"Ø	2"Ø	**			
<u>TP</u>	TRAP PRIMER			**	½"Ø		1
<u>A11</u>	HAND SINK	2"Ø	1½"Ø	1½"Ø	½"Ø	½"Ø	12
<u>A14</u>	MOP SINK	2"Ø	2"Ø	2"Ø	½"Ø	½"Ø	13
<u>A18-1</u>	2 COMP CINIC	OII CX			½"Ø	½"Ø	
<u>A18-2</u>	3-COMP-SINK	2"Ø			(2) ³ / ₄ "Ø	(2) ³ / ₄ "Ø	14
<u>A31</u>	FOOD WASTE DISPOSER	2"Ø			½"Ø		14

- PIPE SIZES SHOWN ARE NOT FIXTURE CONNECTION SIZE BUT BRANCH LINE SIZE. SEE FINAL PRODUCT MANUFACTURER RECOMMENDED PIPING CONNECTION SIZES PRIOR TO INSTALL. PROVIDE REDUCER BETWEEN BRANCH LINE AND CONNECTION AS REQUIRED.
- ** UNDERGROUND VENT PIPE AND TRAP ARM EXTENSION SHALL COMPLY WITH UPC TABLE 1002.2.
- REMARKS 1 PROVIDE WATER HAMMER ARRESTER FOR EACH FIXTURE BANK AND MIN. 18" AIR CHAMBER AT EACH PLUMBING FIXTURE.
- PROVIDE THERMAL MIXING VALVE AND SET HOT WATER TEMPERATURE NO HIGHER THAN 110°F.
- 3 PROVIDE BACKFLOW PREVENTION DEVICE AT EQUIPMENT CONNECTION
- 4 DISCHARGE TO NEARBY FLOOR SINK WITH AIR GAP INDIRECTLY

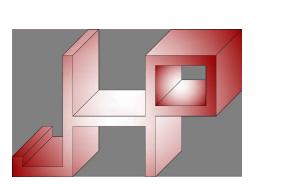
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BLANDFORD ES KITCHEN MODERNIZATION

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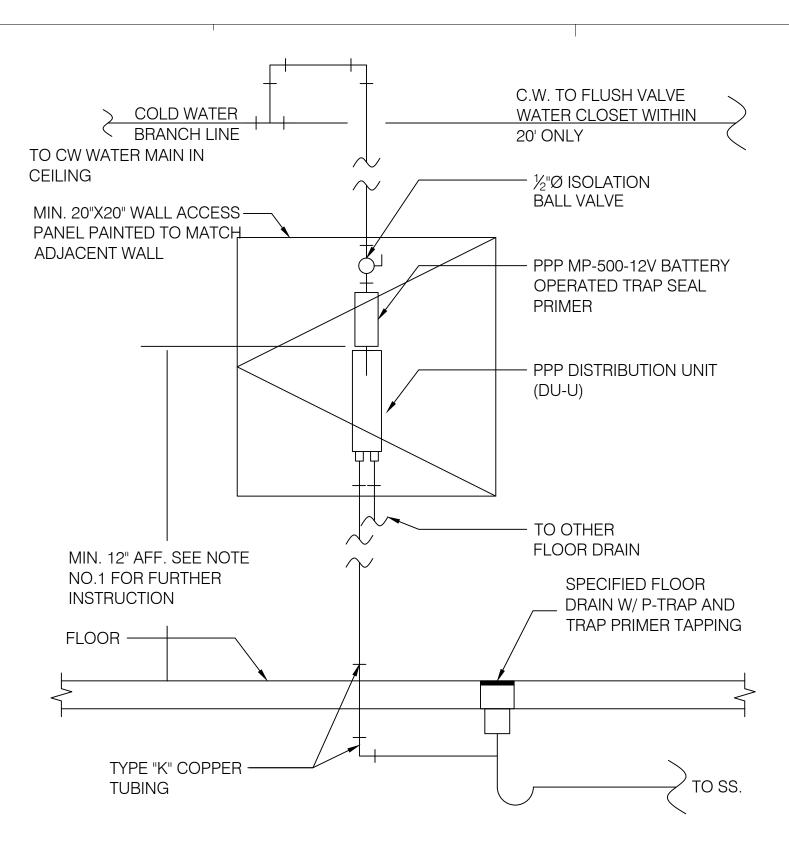
ROWLAND UNIFIED SCHOOL DISTRICT 1830 NOGALES STREET ROWLAND HEIGHTS, CA 91748

SU	BMITTALS/ REVISIONS:	
1	SCHEMATIC DESIGN	9/19/2
2	DESIGN DEVELOPMENT	12/4/2
3	DSA SUBMITTAL	02/26/2
4	DSA PC REVISION	04/01/2

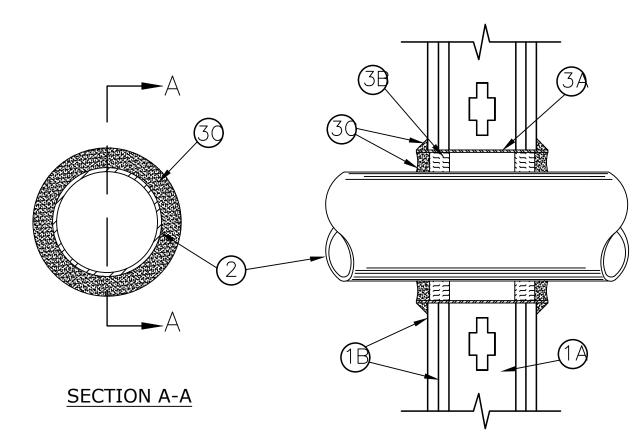
PROJECT NO:	23071
SCALE:	AS SHOWN
DATE:	12/4/2023
DRAWN BY:	CY / CL
CHECKED BV-	ID

SCHEDULES, **CALCULATIONS AND TABLES**

P-0.2







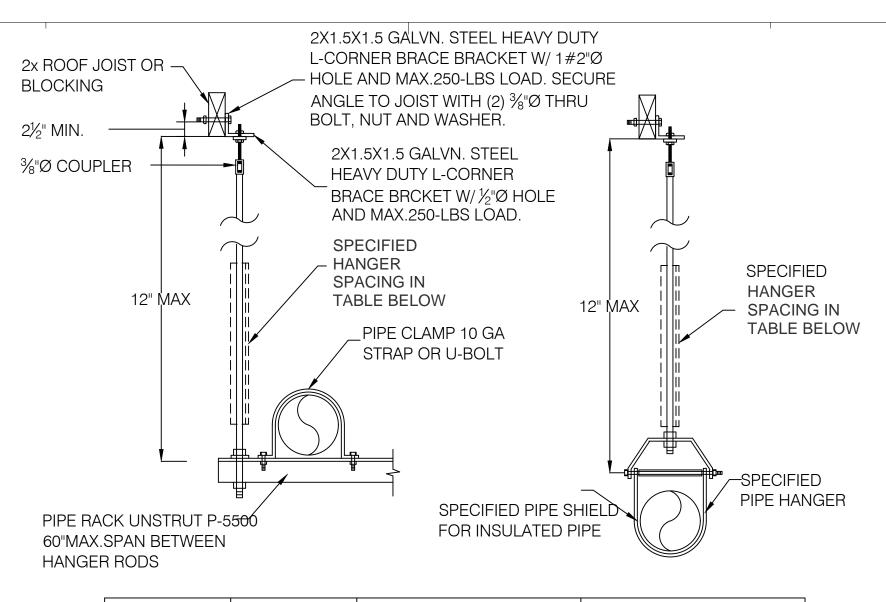
SYSTEM NO.W-L-1003 SEPTEMBER 03, 2004 (FORMERLY SYSTEM NO. 147) F RATINGS - 1 AND 2 HR (SEE ITEM 1) - T RATING - 0 HR

- 1. WALL ASSEMBLY THE 1 OR 2 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
- A. STUDS WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. OC WITH NOM 2 BY 4 IN. LUMBER END PLATES AND CROSS BRACES. STEEL
- STUDS TO BE MIN 3-1/2 IN. WIDE BY 1-3/8 IN. DEEP CHANNELS SPACED MAX 24 IN. OC. B. GYPSUM BOARD* - NOM 5/8 IN. THICK, 4 FT. WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL
- U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAMETER OF OPENING IS 15 IN. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.
- 2. THROUGH PENETRANT ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE SPACE BETWEEN PIPES, CONDUITS OR TUBING AND THE STEEL SLEEVE (ITEM 3A) SHALL BE MIN OF 0 IN. (POINT CONTACT) TO MAX 2-3/8 IN. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE
- A. STEEL PIPE NOM 12 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
- B. IRON PIPE NOM 12 IN. DIAM (OR SMALLER) SERVICE WEIGHT (OR HEAVIER) CAST IRON SOIL PIPE, NOM 12 IN. DIAM (OR SMALLER) OR CLASS 50 (OR HEAVIER) DUCTILE IRON PRESSURE PIPE.
- C. CONDUIT NOM 6 IN. DIAM (OR SMALLER) STEEL CONDUIT OR NOM 4 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING.
- D. COPPER TUBING NOM 6 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
- E. COPPER PIPE NOM 6 IN. DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
- 3. FIRESTOP SYSTEM INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE DETAILS OF THE FIRESTOP SYSTEM SHALL BE AS FOLLOWS.
- A. STEEL SLEEVE CYLINDRICAL SLEEVE FABRICATED FROM MIN 0.019 IN. THICK (NO. 28 GAUGE) GALV SHEET STEEL AND HAVING A MIN 2 IN. LAP ALONG THE LONGITUDINAL SEAM. LENGTH OF STEEL SLEEVE TO BE EQUAL TO THICKNESS OF WALL PLUS 1 TO 4 IN. SUCH THAT, WHEN INSTALLED, THE ENDS OF THE SLEEVE WILL PROJECT APPROXIMATELY 1/2 TO 2 IN. BEYOND THE SURFACE OF THE WALL ON BOTH SIDES OF THE WALL ASSEMBLY. SLEEVE INSTALLED BY COILING THE SHEET STEEL TO A DIAM SMALLER THAN THE THROUGH OPENING, INSERTING THE COIL THROUGH THE OPENINGS AND
- RELEASING THE COIL TO LET IT UNCOIL AGAINST THE CIRCULAR CUTOUTS IN THE GYPSUM WALLBOARD LAYERS. B. PACKING MATERIAL - MIN 1 IN. THICKNESS OF MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO STEEL SLEEVE ON BOTH SIDES OF THE WALL ASSEMBLY AS PERMANENT FORMS. PACKING MATERIAL TO BE RECESSED MIN 1/2 IN. FROM END OF STEEL SLEEVE (FLUSH WITH OR RECESSED INTO GYPSUM WALLBOARD SURFACE) ON BOTH SIDES OF WALL
- B1. PACKING MATERIAL (NOT SHOWN) AS AN ALTERNATE TO ITEM B, NOM 1 IN. THICK POLYETHYLENE BACKER ROD MAY BE USED. THE BACKER ROD IS TO BE RECESSED WITHIN THE STEEL SLEEVE A MIN OF 1 IN. FROM EACH SURFACE OF WALL. C. FILL, VOID OR CAVITY MATERIALS* - CAULK OR SEALANT - WHEN MINERAL WOOL BATT INSULATION IS USED, APPLIED TO FILL THE STEEL SLEEVE TO A MIN DEPTH OF 1/2 IN. ON BOTH SIDES OF WALL ASSEMBLY. WHEN BACKER ROD IS USED, A MIN THICKNESS OF 1 IN. OF CP-25WB+ CAULK IS REQUIRED FLUSH WITH SURFACE OF WALL. A NOM 1/4 IN. DIAM CONTINUOUS BEAD OF CAULK OR SEALANT SHALL BE APPLIED AROUND THE CIRCUMFERENCE OF THE STEEL SLEEVE AT ITS EGRESS FROM THE GYPSUM WALLBOARD LAYERS ON BOTH SIDES OF THE WALL ASSEMBLY.

3M COMPANY - CP 25WB+ CAULK OR FB-3000 WT SEALANT.

*BEARING THE UL CLASSIFICATION MARKING





PIPE SIZE	HANGER ROD SIZE	MAX. WEIGHT PER HANGER LOAD	MAXIMUM PIPE SUPPORT SPACING
1/2"-11/2"	3/8"	100 LBS	6'- 0"
2"-3"	1/2"	100 LBS	10'- 0"

1. SUPPORT PIPES AT SPACING INDICATED IN TABLE ABOVE AND AT EACH CHANGE OF DIRECTION.

2. MULTIPLE PIPES MAY BE SUPPORTED ON A COMMON TRAPEZE. SIZE AND SPACING SHALL BE GOVERNED BY CUMULATIVE WEIGHT OF SUPPORTED PIPING.

NOT IN USE

3. ALL PIPE HANGER AND SUPPORT SHALL CONFORM TO 2022 CPC TABLE 313.6 AND 313.1

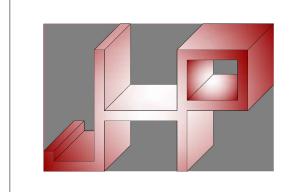




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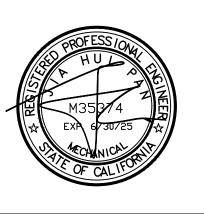
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BLANDFORD ES KITCHEN **MODERNIZATION**

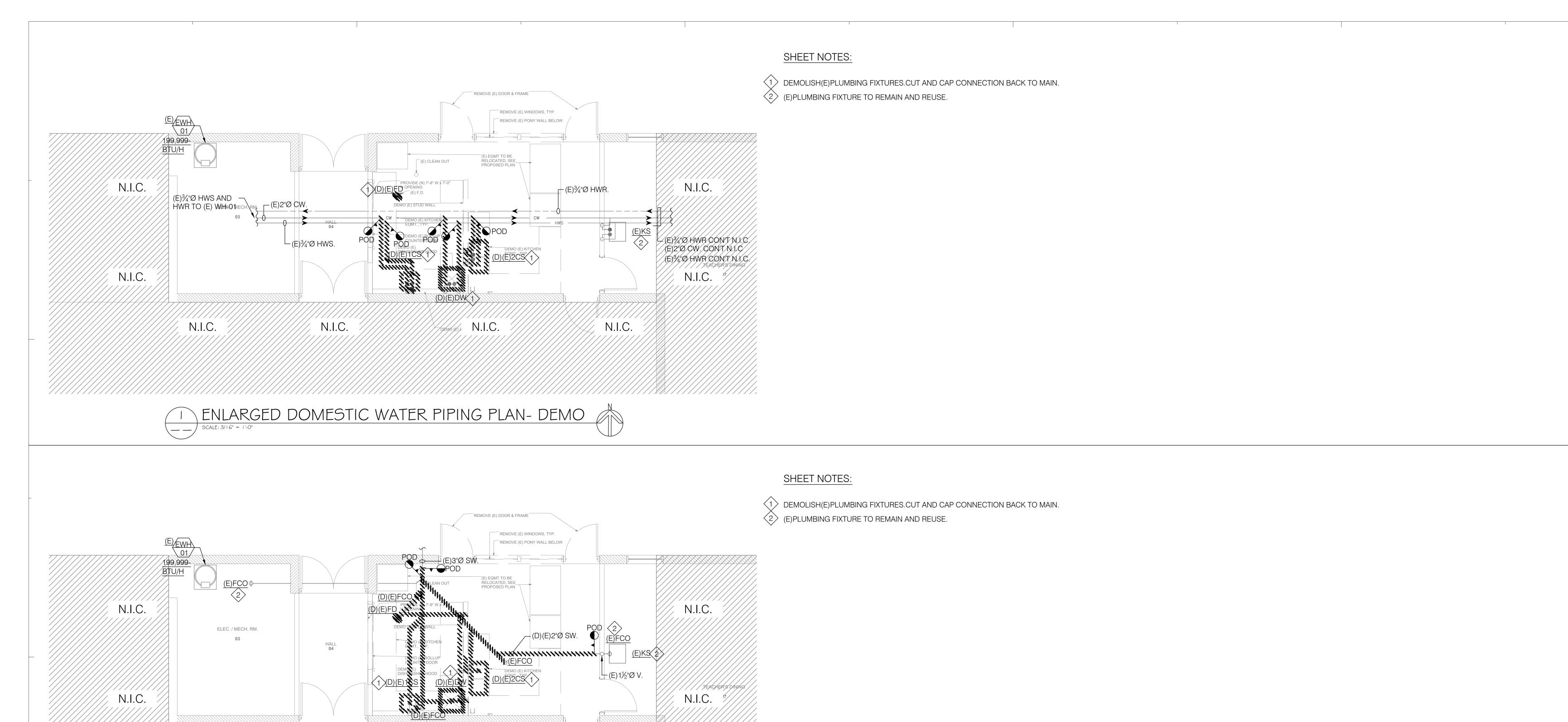
2601 BLANDFORD DRIVE ROWLAND HEIGHTS, CA 91748

ROWLAND UNIFIED SCHOOL DISTRICT 1830 NOGALES STREET ROWLAND HEIGHTS, CA 91748

1 SCHEMATIC DESIGN 2 DESIGN DEVELOPMENT 3 DSA SUBMITTAL 4 DSA PC REVISION 04/01/2024

PLUMBING DETAILS

P-0.3





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BLANDFORD ES KITCHEN MODERNIZATION

2601 BLANDFORD DRIVE ROWLAND HEIGHTS, CA 91748

CLIENT:

ROWLAND UNIFIED SCHOOL DISTRICT
1830 NOGALES STREET
ROWLAND HEIGHTS, CA 91748

SUBMITTALS/ REVISIONS:

 SUBMITTALS/ REVISIONS:

 1
 SCHEMATIC DESIGN
 9/19/2023

 2
 DESIGN DEVELOPMENT
 12/4/2023

 3
 DSA SUBMITTAL
 02/26/2024

 4
 DSA PC REVISION
 04/01/2024

T NO: 23071

AS SHOWN

12/4/2023

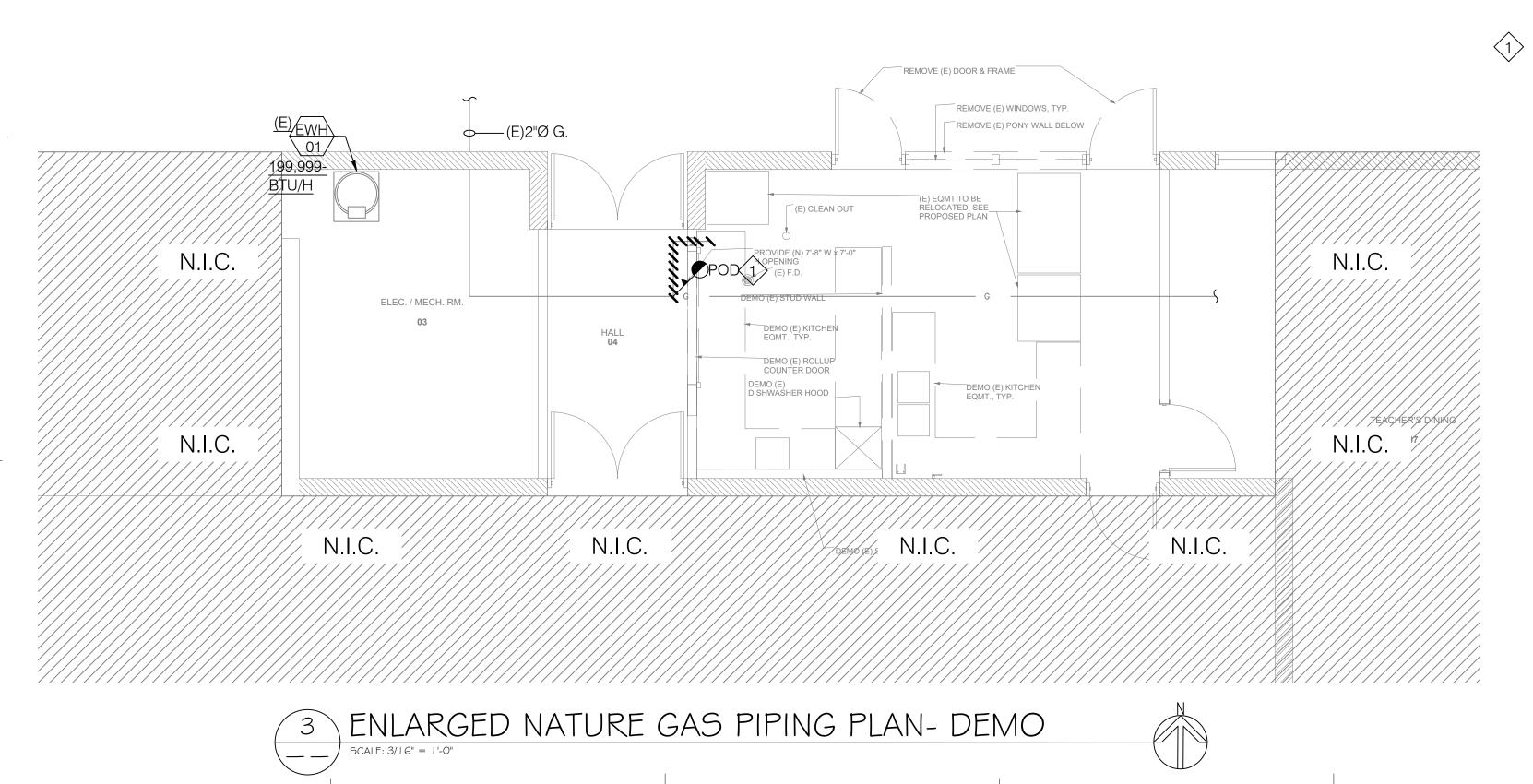
BY: CY / CL

SHEET TITLE:
PLUMBING DEMOLITION
PLAN

P-1.0

SHEET NOTES:

DEMOLISH(E)NATURE GAS LINE.CUT AND CAP CONNECTION BACK TO MAIN.



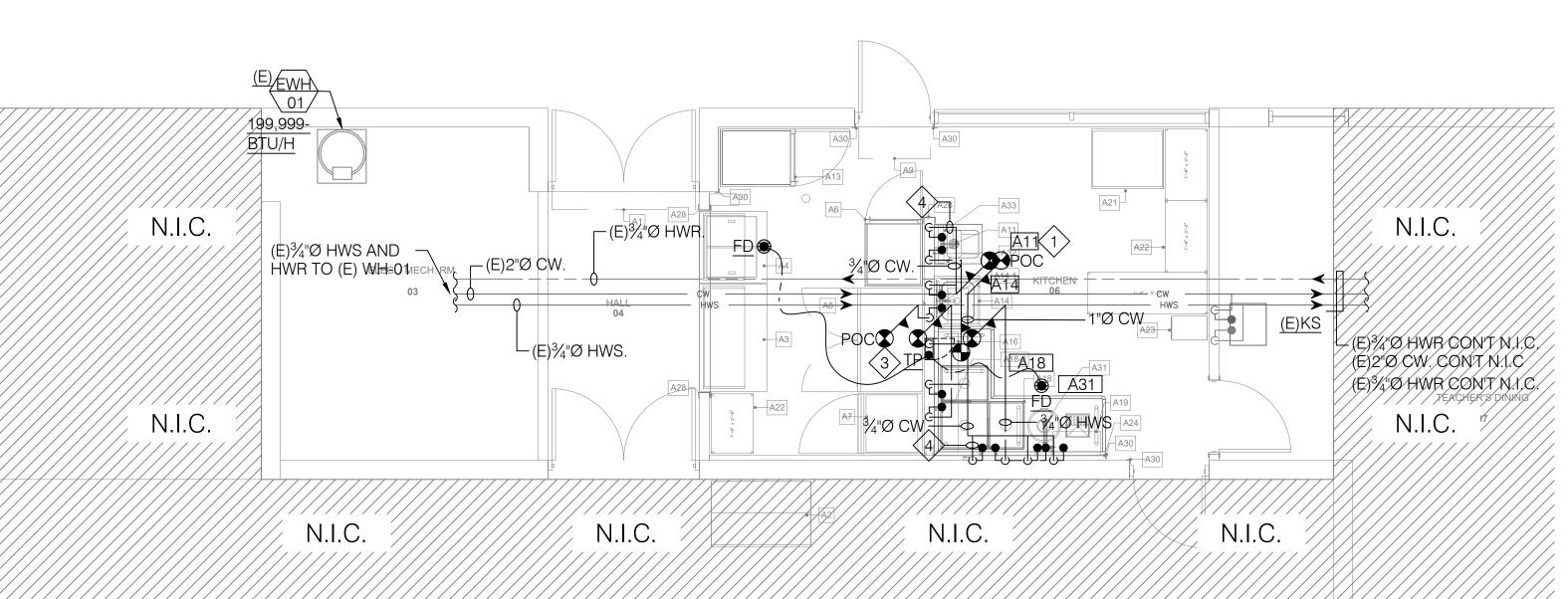
penojes N.I.C.

N.I.C.

N.I.C.

N.I.C.

2 ENLARGED WASTE AND VENT PLAN- DEMO



SHEET NOTES:

- $\stackrel{ extstyle 1}{ extstyle >}$ PROVIDE ½"Ø CW/HWS CONNECTION TO NEW FIXTURE UNIT PER PLAN.
- $\langle 2 \rangle$ (E)PLUMBING FIXTURE TO REMAIN AND REUSE.
- $\stackrel{\textstyle <}{}$ EXTEND (E)½"Ø CW/HWS TO (N)FIXTURE UNIT W/ (N)½"Ø CW/HWS PER PLAN.
- PROVIDE DRAIN AND VENT PIPE PER SIZE SHOWN ON "PLUMBING FIXTURE BRANCH PIPE SIZE TABLE" SHOWN ON PB-0.2, U.N.O. TYPICAL OF ALL.
- (5) EXISTING 199 MBTH/H INPUT 60-GAL CONDENSING TANK TYPE WATER HEATER TO REMAIN. N.I.C.

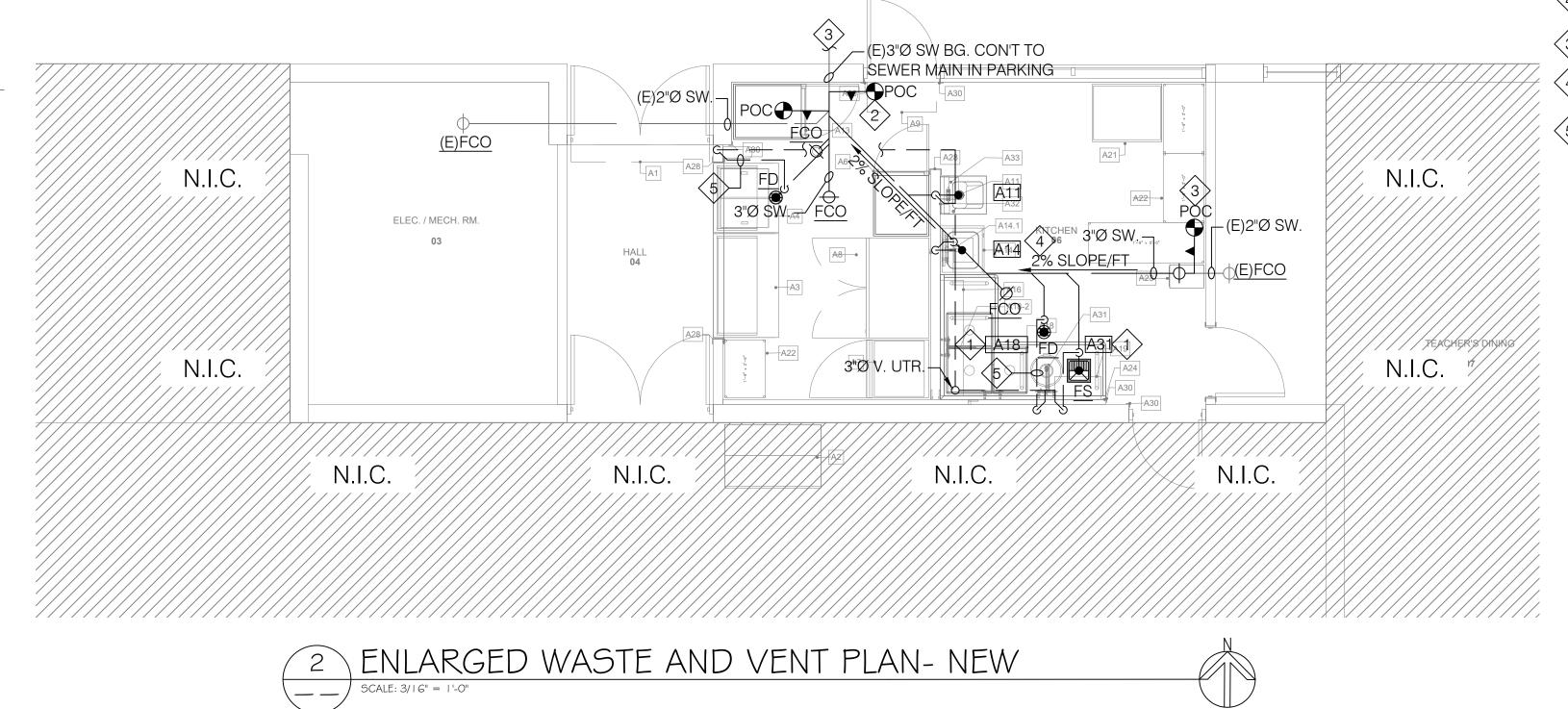
ENLARGED DOMESTIC WATER PIPING PLAN- NE

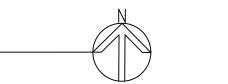
EW	

	EQUIPMENT SCHEDULE																		
#	QTY	EQUIPMENT DESCRIPTION	MANUFACTURER	MODEL NO. / SPEC.	FURNISHE	INICTALLE			[ELECTRI	ICAL			Р	LUMBIN	G	GAS	WASTE	REMARKS
#	QII	EQUIPMENT DESCRIPTION	MANOFACIONEN	WODEL NO. / SI EC.	FURINISHE	INSTALLE.		PHASE	KW	AMP	HP	CONN.	R.I.H.	CW	HW	R.I.H.	SIZE 1,000R.I.H.	WASTE	REMARKS
A1	1	AIR CURTAIN	MARS AIR SYSTEMS	LPV272-1U	G.C.	G.C.	115	1	0.3	2.6		DIRECT	84"						
A2	1	(E) MILK COOLER	EXISTING	EXISTING	OWNER	G.C.	115	1	0.35	3		PLUG	24"					1480	BTU/HR HEAT REMOVAL
A3	1	(E) SERVING COUNTER	EXISTING	EXISTING	OWNER	G.C.													
A4	1	(E) HOT SERVING COUNTER MOBILE	EXISTING	EXISTING	OWNER	G.C.	120	1	1.2	10		PLUG	24"						
A6	1	(E) HOT CABINET	CRES COR	H137S203	OWNER	G.C.	120	1	1.5	12		PLUG	70"						
A7	1	(E) FREEZER, REACH-IN	EXISTING	EXISTING	OWNER	G.C.	115	1	0.87	7.6		PLUG	84"						
A8	1	(E) REFRIGERATOR, REACH-IN	EXISTING	EXISTING	OWNER	G.C.	115	1	0.79	6.9		PLUG	84"						
A9	1	AIR CURTAIN	MARS AIR SYSTEMS	NH236-1U	G.C.	G.C.	115	1	0.59	5.1		DIRECT							
A11	1	HAND SINK	ADVANCE TABCO	7-PS-25	G.C.	G.C.								1/2"	1/2"	18"		1 1/2"	
A13	1	RETHERM CABINET	CRES COR	RO-151-FUA-18DE	G.C.	G.C.	208	3	7.07	34		PLUG	70"						
A14	1	MOP SINK CABINET	ADVANCE TABCO	9-OP-84	G.C.	G.C.												2"	
A14.1	1	MOP SINK FAUCET	ADVANCE TABCO	K-240	G.C.	G.C.								1/2"	1/2"	36"			
A16	1	WALL SHELF, SINGLE	EAGLE GROUP	WS1260-16/3	G.C.	G.C.													
A18	1	3 COMP SINK 'L' SHAPE	CUSTOM FABRICATED	CUSTOM	G.C.	G.C.													
A18-1	1	PRE-RINSE FAUCET	T&S BRASS	B-0133-12-CR-B	G.C.	G.C.								1/2"	1/2"	18"			
A18-2	2	BIG-FLO MIXING FAUCET	T&S BRASS	B-0292	G.C.	G.C.								3/4"	3/4"	18"			
A19	1	WALL SHELF, SINGLE	EAGLE GROUP	WS1224-16/3	G.C.	G.C.													
A21	1	ACCESSIBLE WORK TABLE, MOBILE	EAGLE GROUP	T3036STE	G.C.	G.C.	120	1	1.2	10		PLUG	48"					(1) G	FCI CONVENIENCE RECEP.
A22	4	DRY STORAGE SHELVING	METRO	METROMAX Q	G.C.	G.C.													
A23	1	(4) TIER LOCKER	OMCAN	13130	G.C.	G.C.													
A24	1	WALL FLASHING	ADVANCE TABCO	WF20	G.C.	G.C.													
A28	3	STAINLESS STEEL WALL END CAP	THE CORNER GUARD STORE	EC3P-SS4-1648-1.5-6	G.C.	G.C.													
A30	5	STAINLESS STEEL CORNER GUARD	ADVANCE TABCO	CG-84	G.C.	G.C.													
A31	1	FOOD WASTE DISPOSER	INSINKERATOR	SS-200	G.C.	G.C.	115	1		17.4	2	DIRECT	24"	1/2"		18"		1 1/2"	
A32	1	SOAP DISPENSER	DEB		OWNER	G.C.													
A33	1	PAPER TOWEL DISPENSER	TORK	772828	OWNER	G.C.													

SHEET NOTES:

- $\langle 1
 angle$ contractor shall provide drainage to fixture/equipment and indirectly discharge to near-by fl. sink at 1" ABOVE FLOOD RIM.
- $\langle 2 \rangle$ (N)3"Ø SW CONNECT TO (E)3"Ø SW BY BASE BUILDING. CONTRACTOR IS RESPONSIBLE TO VERIFY EXACT LOCATION, SIZE,
- AND INVERT OF POC AND CONFIRM CONTRACTIBILITY OF PROPOSED PIPING LAYOUT PRIOR TO CONSTRUCT. $\langle 3 \rangle$ (E)2"Ø SW CONNECT TO (N)3"Ø SW.
- 4 ALL HORIZONTAL SANITARY WASTE AND VENT PIPES SHALL BE INSTALLED TO MAINTAIN A MINIMUM 1/4" PER-FOOT-DROP OR 2% SLOPED TOWARD DISCHARGE. TYPICAL OF ALL.
- (5) PROVIDE DRAIN AND VENT PIPE PER SIZE SHOWN ON "PLUMBING FIXTURE BRANCH PIPE SIZE TABLE" SHOWN ON PB-0.2, U.N.O. TYPICAL OF ALL.

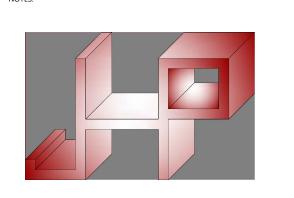




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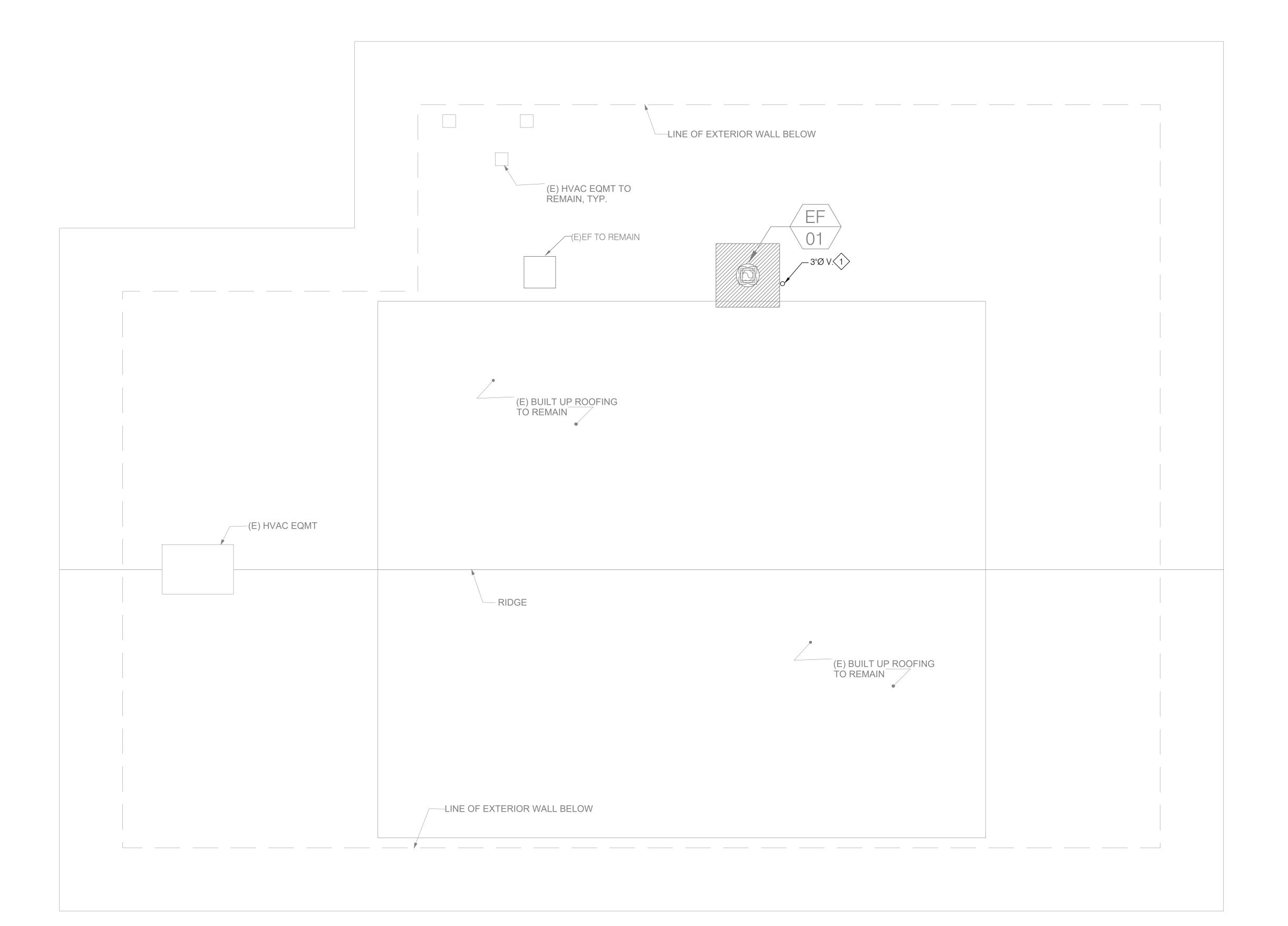
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ROWLAND UNIFIED SCHOOL DISTRICT 1830 NOGALES STREET

ROWLAND HEIGHTS, CA 91748 SUBMITTALS/ REVISIONS: 1 SCHEMATIC DESIGN 2 DESIGN DEVELOPMENT 12/4/2023 02/26/2024 3 DSA SUBMITTAL 04/01/2024 4 DSA PC REVISION

PLUMBING PLAN-NEW

P-1.1





SHEET NOTES:

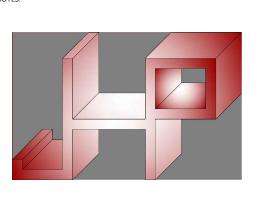
1 PLUMBING VENT SHALL TERMINATE AT MIN. 6" ABOVE FINISHED ROOF AND MAINTAIN MIN. 3-FEET FROM PROPERTY LINE AND 10-FEET FROM OUTSIDE AIR INTAKE. TYPICAL.



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BLANDFORD ES KITCHEN **MODERNIZATION**

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ROWLAND UNIFIED SCHOOL DISTRICT 1830 NOGALES STREET

ROWLAND HEIGHTS, CA 91748						
SUE	MITTALS/ REVISIONS:					
1	SCHEMATIC DESIGN	9/19/2023				
2	DESIGN DEVELOPMENT	12/4/2023				
3	DSA SUBMITTAL	02/26/2024				
4	DSA PC REVISION	04/01/2024				

PLUMBING ROOF PLAN

ELECTRICAL SYMBOLS

LED LIGHTING FIXTURE "TYPE A". LED LIGHTING FIXTURE "TYPE AE", SAME AS "TYPE A" EXCEPT WITH EMERGENCY BATTERY PACK. PANEL DESIGNATION, LETTER IDENTIFIES THE PANEL.

DUPLEX RECEPTACLE: 125V., 15 AMP., NEMA 5-15R. +18" A.F.F. TO BOTTOM OF BOX

GROUND FAULT INTERRUPTER TYPE DUPLEX RECEPTACLE: 125V., 15 AMP., NEMA 5-15R.

SINGLE GANG RECEPTACLE 250V, 50 AMP., NEMA 6-50R.

+18" UNLESS OTHERWISE NOTED. +42" NEAR SINK.

JUNCTION BOX: MOUNT +18" UNLESS NOTED OTHERWISE.

JUNCTION BOX: MOUNTED IN ATTIC SPACE OR UNDER CANOPY.

DATA/TELEPHONE OUTLET, FLUSH 4S BOX WITH 3/4" CONDUIT TO CEILING SPACE. PROVIDE CAT-6a JACK WITH CAT-6a CABLE TO IDF RACK.

POWER PACK, "nLIGHT #nPP16D".

0-10V DIMMER SWITCH, "nLIGHT #nPODM2PDX".

CORNER WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR

—LV— 1/2"C, CAT-5 LIGHTING CONTROL CABLE.

—DC— 2#16 TSP DIMMING CONTROL CABLE.

HOMERUN TO PANEL "A", CIRCUITS 1, 3, 5.

CONDUIT: EXPOSED IN UNFINISHED AREAS; CONCEALED ABOVE CEILING OR IN WALL IN FINISHED AREAS.

— — CONDUIT: IN OR BELOW FLOOR OR BELOW GRADE.

--///- 3/4"C, 4#12, 1#12 GND.

3/4"C, 5#12 & 1#12 GND. -/// 1"C, 6#12 & 1#12 GND. //// //// 1"C, 8#12 & 1#12 GND.

3/4"C, 2#6 & 1#8 GND.

LIGHTING PANEL.

HORSEPOWER RATED, DISCONNECT SWITCH WITHOUT THERMAL OVERLOAD PROTECTION.

DEMOLISH EXISTING DEVICE

REINSTALL EXISTING DEVICE. EXISTING TO REMAIN.

NEW.

C.O. CONDUIT ONLY WITH #12 PULL WIRE.

U.O.N. UNLESS OTHERWISE NOTED.

(TYP) TYPICAL.

AFF ABOVE FINISHED FLOOR.

WP WEATHERPROOF

EXISTING PA SPEAKER.

EXISTING CLOCK.

EXISTING SECURITY MOTION SENSOR.

CABLE TYPE

"D" CABLE - 4 PAIR #24 UTP CATEGORY 6a CABLE AS MANUFACTURED BY COMSCOPE

COMPUTER DATA/TELEPHONE/CABLE & WIRING

—1D— 3/4" CONDUIT WITH ONE "D" CABLE.

—2D— 3/4" CONDUIT WITH TWO "D" CABLES

GENERAL NOTES

1) ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE(S), OR ANY RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF SCHOOL DISTRICT ARCHITECT/ENGINEER OF RECORD PRIOR TO COMMENCING ANY WORK.

2) SPECIFIC COMPONENTS ON CATALOG CUT SHEETS MUST BE HIGHLIGHTED, OR IDENTIFIED.

3) IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO MAINTAIN CONTINUITY OF THE EXISTING FIRE ALARM SYSTEM, CENTRAL STATION REPORTING SYSTEM, SMOKE MANAGEMENT SYSTEM, AND ANY OTHER LIFE SAFETY EQUIPMENT EXISTING AT THE SITE AND AFFECTED BY HIS WORK ON THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIRE WATCH PER CFC 901.7 AND DSA IR F-2 FOR SYSTEMS THAT ARE MADE INACTIVE OR OTHERWISE COMPROMISED AS A RESULT OF THE WORK PERFORMED BY THAT CONTRACTOR.

4) CONSULT WITH THE DISTRICT'S ELECTRICAL INSPECTOR BEFORE STARTING WORK

5) ALL EXPOSED CONDUITS AND BOXES SHALL BE PAINTED TO MATCH THE SURFACES WHERE INSTALLED. 6) ALL EXISTING MATERIALS REMOVED FROM BUILDINGS SHALL BE REMOVED FROM SITE AS DIRECTED BY THE DISTRICT ELECTRICAL INSPECTOR.

7) WHERE EXISTING STRUCTURAL WALLS ARE CORED FOR NEW CONDUIT RUNS, SEPARATION BETWEEN CORED HOLES SHALL BE THREE INCHES FROM NEW OR EXISTING HOLES, UNLESS DIRECTED OTHERWISE BY

8) THE REPRESENTATION OF PHYSICAL PLACEMENT OF EXISTING CONDUITS HAS BEEN DEVELOPED FROM THE BEST INFORMATION AVAILABLE TO THE DISTRICT AT THE TIME THE DRAWINGS WERE PREPARED. THE DISTRICT PROVIDES THIS ONLY AS A GENERAL GUIDELINE FOR THE CONVENIENCE OF BIDDERS/CONTRACTORS AND DOES NOT GUARANTEE OR WARRANT IN ANY WAY EXPRESSLY OR IMPLIEDLY, THE ACCURACY OF THESE REPRESENTATIONS. NOTHING IN THIS DISCLAIMER AFFECTS IN ANY WAY THE DUTY OF THE CONTRACTOR TO FURNISH ACCURATE "AS BUILT" DRAWINGS AFTER THE COMPLETION OF THE

9) IN EXISTING BUILDINGS, CONTRACTORS SHALL NOT WORK IN AREAS CONTAMINATED BY MATERIALS MADE OF ASBESTOS UNTIL THE ASBESTOS MATERIALS HAVE BEEN REMOVED OR ENCAPSULATED.

10) REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND EQUIPMENT AND MATERIAL APPROVED FOR USE UNDER THIS CONTRACT.

11) EXISTING FIRE ALARM SYSTEM AND SECURITY SYSTEM MUST REMAIN IN OPERATION UNTIL CONSTRUCTION IS COMPLETE, APPROVED AND OPERATIONAL. 12) QUANTITY OF WIRES SHOWN IN ALL CONDUITS IS FOR GENERAL GUIDELINE. SUPPLIER OF AUXILIARY

SYSTEM (FA. TEL. SECURITY) SHALL PREPARE CONSTRUCTION DRAWINGS SHOWING ALL NECESSARY WIRES AND CABLES AND VERIFY SIZES OF ALL CONDUITS SHOWN. PROVIDE ALL SPARE WIRES BETWEEN DRAWINGS DO NOT SHOW ALL THE NECESSARY J-BOXES AND PULL BOXES WHICH WILL BE REQUIRED THROUGHOUT.

13) IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL THESE BOXES AS NECESSARY TO TERMINATE CONDUITS AND RACEWAYS. PAINT BOXES TO MATCH COLOR OF THE FINISHED SURFACE THAT THE BOXES ARE ATTACHED BUILDINGS.

14) ALL JUNCTION BOXES AND DEVICES INDICATED ON BUILDING EXTERIORS SHALL BE WEATHERPROOF

15) ALL SIGNAL WIRING IN UNDERGROUND CONDUITS SHALL BE WET LOCATION TYPE.

A. THE GENERAL CONTRACTOR SHALL COORDINATE LAYOUT DIMENSIONS INDICATED ON ELECTRICAL. ALL DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER BEFORE BID TIME, OR BEFORE PROCEEDING WITH THE WORK.

B. IN THE EVENT THAT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY SHOWN ON THE CONSTRUCTION DOCUMENTS, THEN THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS SIMILAR CONDITIONS THAT ARE SHOWN.

C. THE CONTRACTOR SHALL VERIFY ALL ELECTRICAL, COMMUNICATION AND SECURITY REQUIREMENTS 17) ALL DIMENSIONS, ELEVATIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED ON THE

SITE BY GENERAL CONTRACTOR, AND EACH SUB-CONTRACTOR BEFORE THE WORK BEGINS. ERRORS, OMISSIONS AND DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION BEFORE

18) THE ENGINEER HAS PREPARED THESE DOCUMENTS ONLY FOR IMPROVEMENTS SPECIFIED, DETAILED

OR SHOWN AS NEW WORK, AND ASSUMES NO RESPONSIBILITY FOR OTHER CONSTRUCTION, MATERIAL OR EQUIPMENT NOTED AS "EXISTING" OR AS "PROVIDED BY OTHERS".

19) IF USE OF WIREMOLD IS DESIRED, CONTRACTOR SHALL OBTAIN A LETTER FROM AOR AUTHORIZING USE

OF WIREMOLD PRIOR TO INSTALLATION. 20) DRAWINGS ARE BASED ON AVAILABLE AS-BUILT PLANS AND FIELD OBSERVATIONS. NOTIFY THE AUTHORIZED OWNER REPRESENTATIVE (AOR) IMMEDIATELY WHEREVER (E) CONDITIONS ENCOUNTERED DEVIATE FROM THESE DRAWINGS AND EXISTING EQUIPMENT MUST BE RELOCATED DUE TO NEW

CONSTRUCTION EFFORTS. 21) PROVIDE GROUND BUSHING ON NEW AND EXISTING PULLBOXES.

22) IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY THE TYPE OF CEILING CONSTRUCTION AND TO PROVIDE THE PROPER TYPE OF BOX MOUNTING AND SUPPORT FOR FIRE ALARM INITIATION DEVICES AND ALL OTHER LOW VOLTAGE/SIGNAL SYSTEMS.

23) ANY DAMAGE CAUSED BY DEMOLITION OPERATIONS TO ADJACENT FACILITIES SHALL BE PROMPTLY REPAIRED AT NO ADDITIONAL COST TO THE OWNER. ALL ITEMS MOVED OR TEMPORARILY DISASSEMBLED SHALL BE REPLACED OR REASSEMBLED TO AT LEAST THE CONDITION IN LIKE QUALITY PRIOR TO REMOVAL

24) PROVIDE ACCESS PANEL FOR EACH HEAT DETECTOR IN ATTIC SPACE EXCEPT CEILING WITH SUSPENDED

25) THE COLOR CODE FOR WIRE INSULATION IN THE LOW VOLTAGE SPECIFICATIONS SHOULD BE FOLLOWED. 26) SEAL ALL SPACE AROUND CONDUIT PENETRATION THROUGH FIRE RATED WALL WITH A UL LISTED FIRE BARRIER COMPOUND "3M" CAULKING OR EQUAL.

120/208 VOLTS						. ,							MAIN BKI		MLO			
3 PHASE							LOCA	ATION	HALLWAY									225 A. BUSSING
4 WIRE																		FLUSH MTG.
LOCATION	1	WATTAGE	Ξ	LTG	REC	MIS	CIR	BKR		BKR	CIR	MIS	REC	LTG		WATTAGE		LOCATION
	PH - A	PH - B	PH - C												PH - A	PH - B	PH - C	
E) LTG, TEACH LOUNGE	800						1	20-1		20-1	2			9	270			LTG, KITCHEN
E) LTG, RESTROOM		600					3	20-1		20-1	4							SPARE
E) REC. TEACH LOUNGE			720				5	20-1		20-1	6						900	(E) REC. TEACH LOUNGE
E) REC. MICROWAVE	1200					1	7	20-1		20-1	8				900			(E) REC. TEACH LOUNGE
E) REC, MICROWAVE		1200				1	9	20-1		20-2	10	1				800		(E) HOT FOOD CART
E) BOILER CONTROL			600			1	11	20-1		-	12	-					800	
E) WEW F2	500					1	13	20-1		20-1	14				700			(E) LIGHTING
SPARE							15	20-1		20-1	16					1000		(E) HOT FOOD CART
SPARE							17	20-1		20-1	18						500	(E) VENT
E) SCE	600					1	19	20-1		20-1	20				500			(E) VENT
E) SCE		600				1	21	20-1	\$	20-1	22	1				312		AIR CURTAIN, HALLWAY
E) WALL PANEL			1000			1	23	20-1	\$	20-1	24	1					612	AIR CURTAIN, KITCHEN
RECEPTACLE, MULTI-PURPOSE	400				2		25	20-1		20-1	26	1			900			(E) FIRE ALARM
REC. SERVING COUNTER		1200			1		27	20-1	\$	20-1	28	1				2088		GARBAGE DISPOSER
REC., HOT CABINET			1500		1		29	20-1	\$*	50-2	30		1				4000	REC. RETHERM CABINET
REC, REACH-IN REFRIGERATOR	912				1		31	20-1		-	32				4000			
REC, REACH-IN FREEZER		828			1		33	20-1		20-1	34							SPARE
SPARE							35	20-1		20-1	36							SPARE
SPARE							37	15-2		20-1	38							SPARE
							39	-		20-1	40							SPARE
E) CAMERA, LTG			200			1	41	20-1		20-1	42							SPARE
PH - A= 11682 VA							PH - B	= 8628	VA									PH - C= 10832 VA
TOTAL CONNECTED LOAD: 31142					VA	OR		86.51	AMPS @ 120/208	3 VOLTS	}	3 Ø						
.CL: 270 VA X	125%	= 337.5	VA															
FDL: 30872 VA +	337.5	VA	(LCL)	=	31210	VA	OR	86.69										

CODES, STANDARDS & GUIDES

PARTIAL LIST OF APPLICABLE CODES AS OF January 1, 2023 2022 California Administrative Code (CAC), Part 1, Title 24 CCR* 2022 California Building Code (CBC), Part 2, Title 24 CCR (2021 International Building Code, Vol. 1 & 2, and 2022 California amendments) 2022 California Electrical Code (CEC), Part 3, Title 24 CCR (2020 National Electrical Code and 2019 California Amendments) 2022 California Mechanical Code (CMC), Part 4, Title 24 CCR (2021 IAPMO Uniform Mechanical Code and 2022 California amendments) 2022 California Plumbing Code (CPC), Part 5, Title 24 CCR (2021 IAPMO Uniform Plumbing Code and 2022 California amendments) 2022 California Energy Code (CEC), Part 6, Title 24 CCR 2022 California Fire Code (CFC), Part 9, Title 24 CCR (2021 International Fire Code and 2022 California Amendments) 2022 California Existing Building Code (CEBC), Part 10, Title 24 CCR (2021 International Existing Building Code and 2022 California Amendments) 2022 California Green Building Standards Code (CALGreen), Part 11, Title 24 CCR 2022 California Referenced Standards Code, Part 12, Title 24 CCR Title 19 CCR, Public Safety, State Fire Marshal Regulations

2016 ASME A17.1/CSA B44-13 Safety Code for Elevators and Escalators (per 2022 CBC Part 2 Ch 35) Note: Cal/OSHA Elevator Unit enforces CCR Title 8 and uses the 2004 ASME A17.1 by adoption

PARTIAL LIST OF APPLICABLE STANDARDS NFPA 13 - Standard for the Installation of Sprinkler Systems (CA amended)..... NFPA 14 - Standard for the Installation of Standpipe and Hose Systems (CA amended)....2019 Edition NFPA 17 - Standard for Dry Chemical Extinguishing Systems.... ...2021 Edition

NFPA 17A - Standard for Wet Chemical Extinguishing Systems... ...2021 Edition NFPA 20 - Standard for the Installation of Stationary Pumps for Fire Protection.....2019 Edition NFPA 22 - Standard for Water Tanks for Private Fire Protection.... ...2018 Edition NFPA 24 - Standard for the Installation of Private Fire Service Mains and ..2019 Edition Their Appurtenances (CA amended)... NFPA 72 - National Fire Alarm and Signaling Code (CA amended)... ...2022 Edition

NFPA 80 - Standard for Fire Doors and Other Opening Protectives... ...2019 Edition NFPA 2001 - Standard on Clean Agent Fire Extinguishing Systems (CA amended)......2018 Edition UL 300 - Standard for Fire Testing of Fire Extinguishing Systems for Protection of Commercial Cooking Equipment..... ..2005 (R2010) UL 464 - Audible Signaling Devices for Fire Alarm and Signaling Systems,

Including Accessories..... UL 521 - Standard for Heat Detectors for Fire Protective Signaling Systems..... ...1999 Edition UL 1971 - Standard for Signaling Devices for the Hearing Impaired...... ..2002 (R2010) ICC 300 - Standard for Bleachers, Folding and Telescopic Seating, and Grandstands.......2017 Edition

See California Building Code Chapter 35 for State of California amendments to the NFPA Standards.

For a complete list of applicable NFPA standards refer to 2022 CBC (SFM) Chapter 35 and California Fire Code Chapter 80.

EQUIPMENT ANCHORAGE NOTES

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 16, & 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

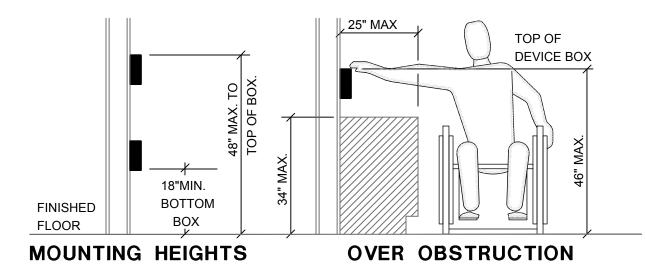
"PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING FLEXIBLE CABLE. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY 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:

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

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

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.



MOUNTING HEIGHTS N.T.S. OUTLETS, INTERCOM, CONTROLS, ETC.

TYPICAL MOUNTING HEIGHTS ABOVE FINISHED FLOOR (UNLESS OTHERWISE NOTED ON DRAWINGS) +48": A.F.F. LIGHT SWITCHES, DIMMER SWITCHES, FIRE ALARM PULL STATION, DUCT TO TOP OF BOX: DETECTOR TEST PANEL, INTERCOM CALL SWITCH, SPEAKER VOLUME CONTROL, T-STATS, BY-PASS TIMER WALL TELEPHONE.

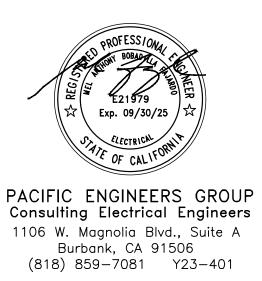
ALL DUPLEX RECEPTACLES, WALL OUTLET FOR DESK TELEPHONE, COMPUTER +18" A.F.F. TO BOTTOM OF BOX: OUTLET, UNLESS OTHERWISE NOTED.

				LIGH	LIGHTING FIXTURE SCHEDULE												
ABBRE	VIATIONS	S :		NOTES:													
CLG = CEILING STD = STANDARD REC = RECESS LED = LIGHT EMITTING DIODE SPC = SPECIAL			 VERIFY EXACT CEILING TYPE AND PROVIDE PROPER FIXTURES WITH ALL NECESSARY MOUNTING ACCESSORIES. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF LIGHTING FIXTURES. 														
YPE	MTG.	CLASS	MANUFACTURER AND CATALOG NUMBER	FINISH	LAMP TYPE	TOTAL WATTS	VOLT	DESCRIPTION									
Α	CLG	LED	LITHONIA: CPANL-1X4-ALO1-M4-4000L-40K OR APPROVED EQUAL	STD	LED	21.0	UNV	SURFACE MOUNTED 1X4 LED									
AE	CLG	LED	LITHONIA: CPANL-1X4-ALO1-M4-4000L-40K ILB-CP20-HE-A OR APPROVED EQUAL	STD	LED	21.0	UNV	SURFACE MOUNTED 1X4 LED W/ 90 MIN. MINIMUM BATTERY BACKUP									

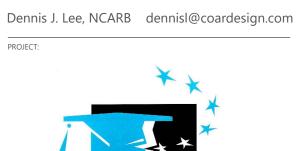
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 03-124069 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹 DATE: 05/24/2024

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BLANDFORD ES KITCHEN **MODERNIZATION**

2601 BLANDFORD DRIVE ROWLAND HEIGHTS, CA 91748

ROWLAND UNIFIED SCHOOL DISTRICT **1830 NOGALES STREET** ROWLAND HEIGHTS, CA 91748 SUBMITTALS/ REVISIONS: 1 SCHEMATIC DESIGN

ELECTRICAL SYMBOL LIST, NOTES, DETAIL & PANEL SCHEDULE

E-1.1

Report Version: 2022.0.000

Schema Version: rev 20220101

Compliance ID: 168551-0124-0002

Report Generated: 2024-01-05 08:37:00

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

STATE OF CALIFORNIA STATE OF CALIFORNIA Indoor Lighting Indoor Lighting CALIFORNIA ENERGY COMMISSION CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE CERTIFICATE OF COMPLIANCE NRCC-LTI-E **Project Name:** Y23-224 Blandford ES Kitchen (Page 2 of 7) Project Name: Y23-224 Blandford ES Kitchen (Page 3 of 7) 2601 BLANDFORD DRIVE, ROWLAND HEIGHTS, CA 91748 Date Prepared: 2601 BLANDFORD DRIVE, ROWLAND HEIGHTS, CA 91748 Date Prepared: 2024-01-05T11:36:56-05:00 2024-01-05T11:36:56-05:00 F. INDOOR LIGHTING FIXTURE SCHEDULE C. COMPLIANCE RESULTS This table includes all planned permanent and portable lighting other than dwelling unit/hotel/motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance. documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are Adjusted Lighting Power per 140.6(a) / 170.2(e) Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts) **Compliance Results** Designed Wattage: Conditioned Spaces conditioned and Field Inspector Excluded per unconditioned Modular Complete Luminaire How is Wattage | Total Numbe Category Aperture & 140.6(a)3 / spaces must not be | Complete PAF Lighting (Track) Fixture determined of Luminaires Description luminaire² Category | Additional | 140.6(c)3 / Color Change¹ Control Credit combined for Designed 05 must be >= 08 140.6(c)2 / | 140.6(c)2G / | 170.2(e)4B | 140.6(a)2/ compliance per | 140.6(c)1 No NA 140.6 / 170.2(e) 170.2(e)4 | 170.2(e)4Av | 170.2(e)1B 140.6(b)1 / 170.2(e) Total Designed Watts: CONDITIONED SPACES ¹FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F (See Table F) (See Table P) (See Table I) | (See Table I) | (See Table J) | (See Table K) automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05. COMPLIES ²Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp. COMPLIES Controls Compliance (See Table H for Details) Rated Power Reduction Compliance (See Table Q for Details) G. MODULAR LIGHTING SYSTEMS This section does not apply to this project. D. EXCEPTIONAL CONDITIONS This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form. H. INDOOR LIGHTING CONTROLS (Not including PAFs) This table includes lighting controls for conditioned and unconditioned spaces. E. ADDITIONAL REMARKS Building Level Controls This table includes remarks made by the permit applicant to the Authority Having Jurisdiction. Field Inspector Mandatory Demand Response 110.12(c) Shut-off controls 130.1(c) / 160.5(b)4C Pass Fail NA < 4,000W subject to multilevel See Area/Space Level Controls Generated Date/Time: Documentation Software: Energy Code Ace Generated Date/Time: Documentation Software: Energy Code Ace CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 168551-0124-0002 CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 168551-0124-0002 Schema Version: rev 20220101 Report Generated: 2024-01-05 08:37:00 Schema Version: rev 20220101 Report Generated: 2024-01-05 08:37:00 STATE OF CALIFORNIA STATE OF CALIFORNIA Indoor Lighting Indoor Lighting CALIFORNIA ENERGY COMMISSION CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE CERTIFICATE OF COMPLIANCE NRCC-LTI-E NRCC-LTI-E **Project Name:** Y23-224 Blandford ES Kitchen (Page 5 of 7) (Page 6 of 7) 2601 BLANDFORD DRIVE, ROWLAND HEIGHTS, CA 91748 | Date Prepared: 2024-01-05T11:36:56-05:00 2601 BLANDFORD DRIVE, ROWLAND HEIGHTS, CA 91748 Date Prepared: 2024-01-05T11:36:56-05:00 S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF) K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE This section does not apply to this project. This section does not apply to this project. L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY T. DWELLING UNIT LIGHTING This section does not apply to this project. This section does not apply to this project. M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION This section does not apply to this project. Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online Form/Title N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS NRCI-LTI-E - Must be submitted for all buildings This section does not apply to this project. V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. This section does not apply to this project. Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF)) Systems/Spaces To Be Field Verified This section does not apply to this project. NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls. KITCHEN Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS This section does not apply to this project. R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS This section does not apply to this project. Generated Date/Time: Documentation Software: Energy Code Ace Generated Date/Time: Documentation Software: Energy Code Ace CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 168551-0124-0002 CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 168551-0124-0002 Report Generated: 2024-01-05 08:37:00 Schema Version: rev 20220101 Report Generated: 2024-01-05 08:37:00 Schema Version: rev 20220101

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APP: 03-124069 INC:

REVIEWED FOR

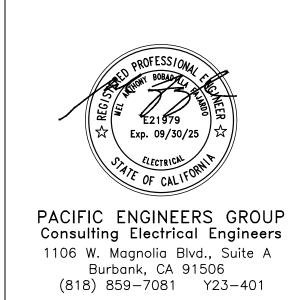
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DATE: 05/24/2024

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ROWLAND

BLANDFORD ES KITCHEN MODERNIZATION

2601 BLANDFORD DRIVE ROWLAND HEIGHTS, CA 91748

ROWLAND UNIFIED SCHOOL DISTRICT
1830 NOGALES STREET
ROWLAND HEIGHTS, CA 91748
SUBMITTALS/ REVISIONS:

1 SCHEMATIC DESIGN
2 DESIGN DEVELOPMENT

COJECT NO: 202310

EALE: AS SHOWN

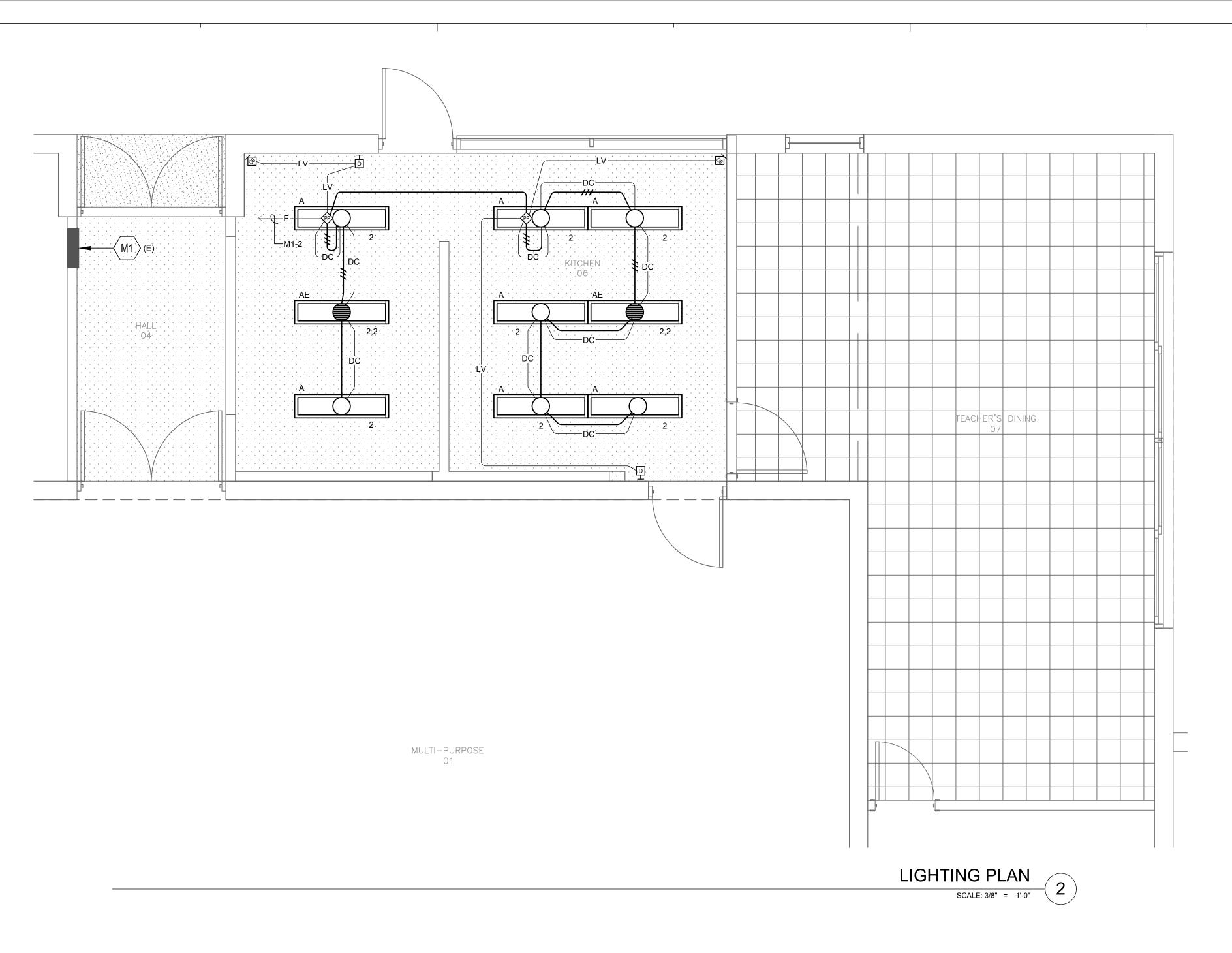
ATE: 12/4/2023

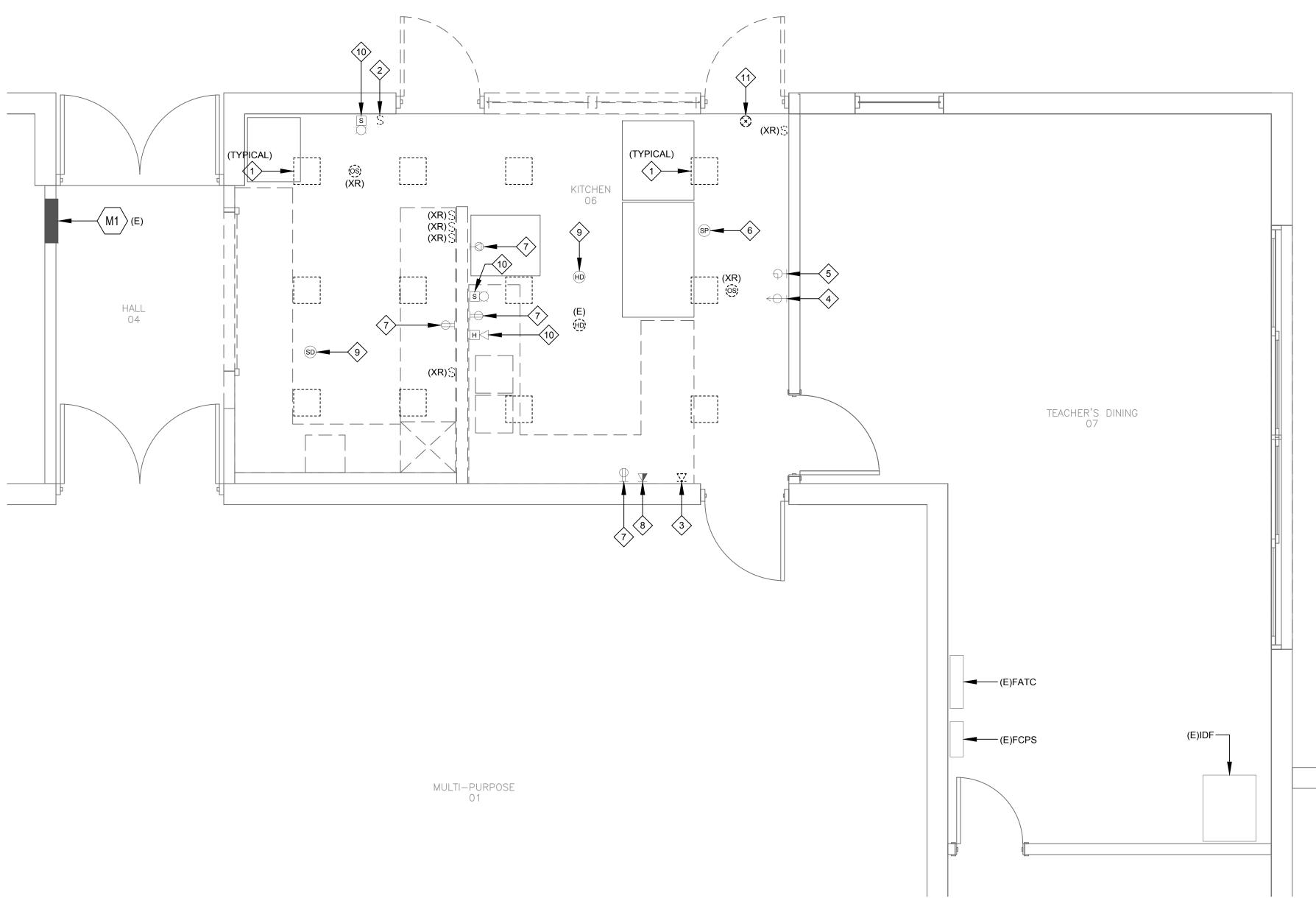
RAWN BY: HY

SHEET TITLE:
TITLE 24 - INDOOR

HEET NO:

-1.2





DEMOLITION PLAN

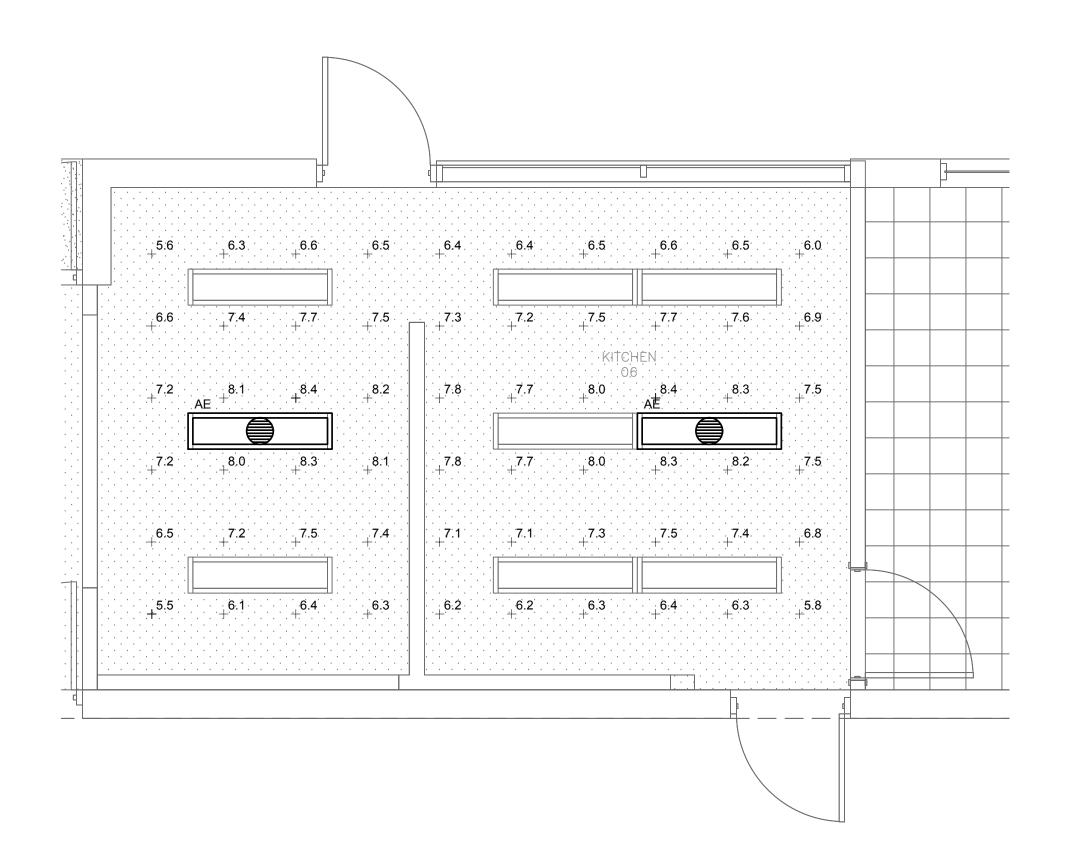
SCALE: 3/8" = 1'-0"

DEMOLITION KEYED NOTES

- DISCONNECT AND REMOVE EXISTING LIGHTING FIXTURES INCLUDING OCCUPANCY SENSOR AND WIRING. PROTECT IN PLACE EXISTING WIRES, CONDUIT AND J-BOXES IN CEILING SPACE AND BE REUSE. DO NOT DISCONNECT CONTINUITY TO REMAINING LIGHTING FIXTURES. SEE NEW LIGHTING PLAN ON THIS SHEET.
- DISCONNECT, REMOVE AND REPLACE EXISTING LIGHT SWITCH INCLUDING WIRES. EXISTING FLUSH BOX AND CONDUIT TO REMAIN AND BE REUSED.
- DISCONNECT AND REMOVE TELEPHONE OUTLET INCLUDING CABLE BACK TO TERMINAL CABINET.
- CAREFULLY DISCONNECT, REMOVE AND REINSTALL EXISTING INTRUSION DETECTION, PROTECT IN PLACE EXISTING CABLE AND BE REUSE.
- 5 CAREFULLY DISCONNECT, REMOVE AND REINSTALL EXISTING CLOCK, PROTECT IN PLACE WIRES AND CONDUIT AND BE REUSE.
- 6 CAREFULLY DISCONNECT, REMOVE AND REINSTALL EXISTING CEILING
- 7 DISCONNECT AND REMOVE RECEPTACLE OUTLETS INCLUDING WIRES AND CONDUIT BACK TO SERVING PANELBOARD, CUT AND CAP CONDUIT AND ABANDON IN PLACE.

MOUNT PA SPEAKER. PROTECT IN PLACE EXISTING WIRES BE REUSE.

- 8 CAREFULLY DISCONNECT, REMOVE AND REINSTALL DUAL TELEPHONE AND DATA OUTLETS INCLUDING RACEWAY AND CABLES.
- 9 CAREFULLY DISCONNECT, REMOVE AND REINSTALL SMOKE AND HEAT DETECTORS TO NEW CEILING. PROTECT IN PLACE WIRES AND CONDUIT AND BE REUSE.
- CAREFULLY DISCONNECT, REMOVE AND REINSTALL FIRE ALARM STROBE AND HORN. PROTECT IN PLACE WIRES AND CONDUIT AND BE REUSE.
- DISCONNECT AND REMOVE EXISTING EXIT SIGN INCLUDING ASSOCIATED WIRES AND CONDUIT.



tatistics						
escription	Symbol	Avg	Max	Min	Max/Min	Avg/Min
TCHEN	+	7.1 fc	8.4 fc	5.5 fc	1.5:1	1.3:1

Schedule	1										
Symbol	Label	Image	Quantity	Manufacturer	Catalog Number	Description	Number Lamps	Lumens Per Lamp	Light Loss Factor	Wattage	Plot
	A		2	Lithonia Lighting	CPANL 1x4 24/33/44LM 40K - 24LM	CPANL Switchable Lumen LED Flat Panel, 1x4, 24/33/44LM, 4000 K CCT, - 24LM	1	2442	0.7	19.46	Max: 802cd

EMERGENCY PHOTOMETRIC PLAN

 $\frac{1}{\text{SCALE: 3/8"}} = 1'-0" \left(3 \right)$

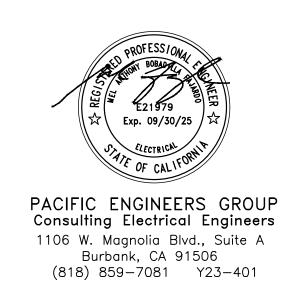
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ROWLAND HEIGHTS, CA 91748

CLIENT:

ROWLAND UNIFIED SCHOOL DISTRICT
1830 NOGALES STREET
ROWLAND HEIGHTS, CA 91748

1830 NOGALES STREET
ROWLAND HEIGHTS, CA 91748

SUBMITTALS/ REVISIONS:

1 SCHEMATIC DESIGN 9/19
2 DESIGN DEVELOPMENT 12/4

SCALE: AS SHOWN

DATE: 12/4/2023

DRAWN BY: HY

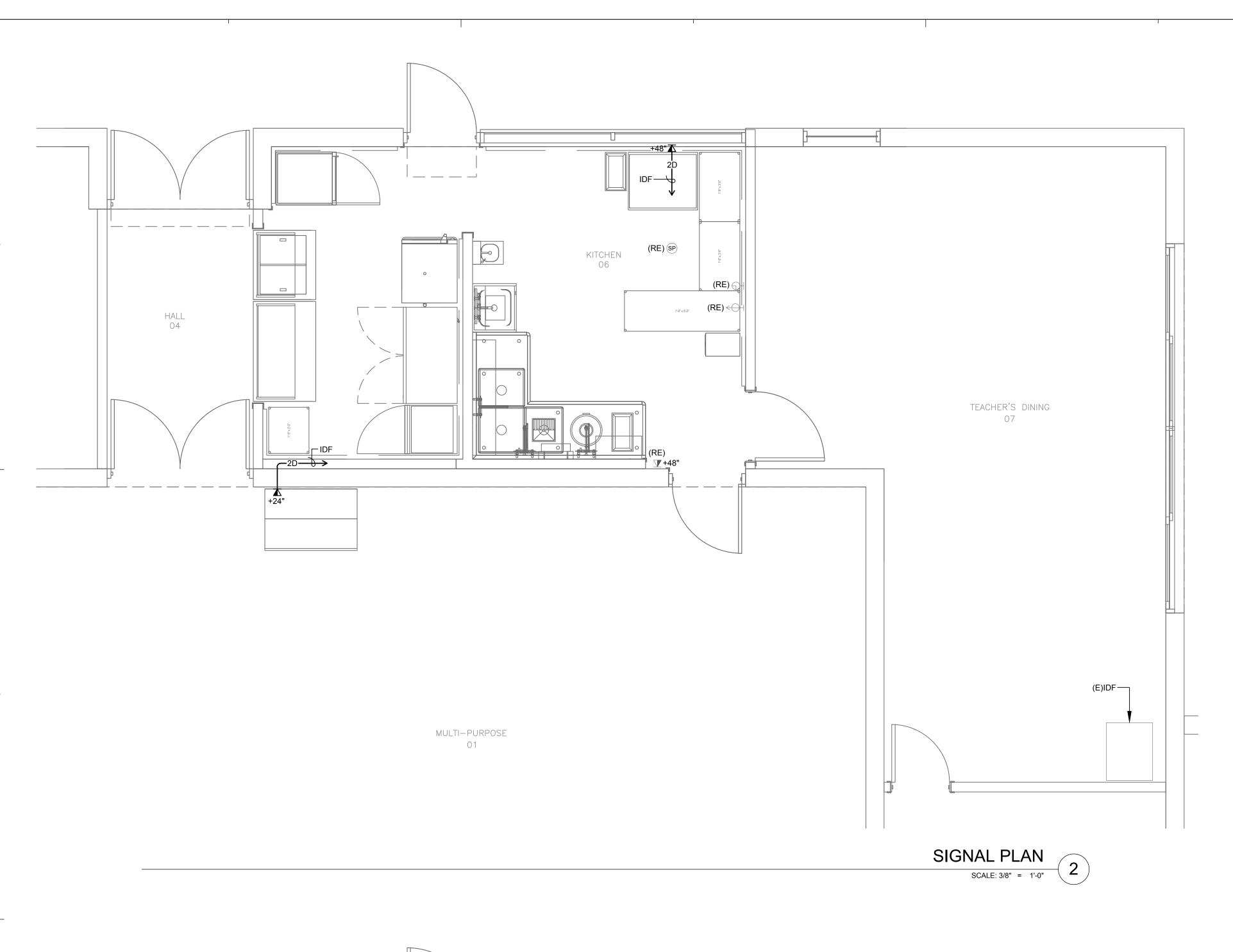
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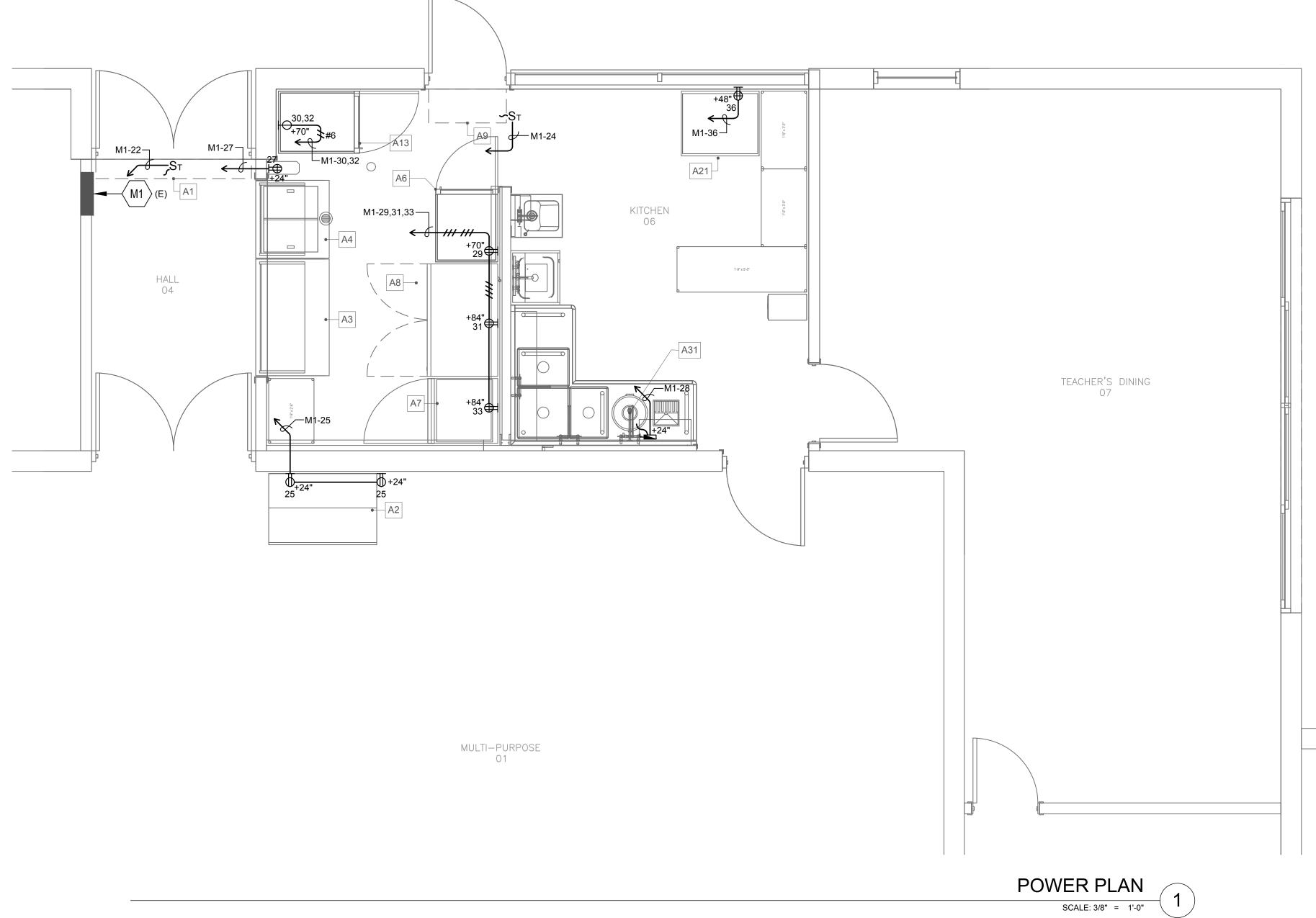
SHEET TITLE:

DEMOLITION, LIGHTING

E-2.1

& PHOTOMETRIC PLANS





	EQUIPMENT SCHEDULE																			
_							ELECTRICAL								PLUMBING	3		GAS		
#	QTY	EQUIPMENT DESCRIPTION	MANUFACTURER	MODEL NO. / SPEC.	FURNISHE	INSTALLE	VOLT	PHASE	KW	AMP	НР	CONN.	R.I.H.	cw	HW	R.I.H.	SIZE	1,000	R.I.H.	- WASTE REMARKS
A1	1	AIR CURTAIN	MARS AIR SYSTEMS	LPV272-1U	G.C.	G.C.	115	1	0.3	2.6		DIRECT	84"							
A2	1	(E) MILK COOLER	EXISTING	EXISTING	OWNER	G.C.	115	1	0.35	3		PLUG	24"							1480 BTU/HR HEAT REMOVAL
A3	1	(E) SERVING COUNTER	EXISTING	EXISTING	OWNER	G.C.														
A4	1	(E) HOT SERVING COUNTER MOBILE	EXISTING	EXISTING	OWNER	G.C.	120	1	1.2	10		PLUG	24"							
A6	1	(E) HOT CABINET	CRES COR	H137S203	OWNER	G.C.	120	1	1.5	12		PLUG	70"							
A7	1	(E) FREEZER, REACH-IN	EXISTING	EXISTING	OWNER	G.C.	115	1	0.87	7.6		PLUG	84"							
A8	1	(E) REFRIGERATOR, REACH-IN	EXISTING	EXISTING	OWNER	G.C.	115	1	0.79	6.9		PLUG	84"							
A9	1	AIR CURTAIN	MARS AIR SYSTEMS	NH236-1U	G.C.	G.C.	115	1	0.59	5.1		DIRECT								
A11	1	HAND SINK	ADVANCE TABCO	7-PS-25	G.C.	G.C.								1/2"	1/2"	18"				1 1/2"
A13	1	RETHERM CABINET	CRES COR	RO-151-FUA-18DE	G.C.	G.C.	208	1	8	34		PLUG	70"							
A14	1	MOP SINK CABINET	ADVANCE TABCO	9-OP-84	G.C.	G.C.														2"
.14.1	1	MOP SINK FAUCET	ADVANCE TABCO	K-240	G.C.	G.C.								1/2"	1/2"	36"				
A16	1	WALL SHELF, SINGLE	EAGLE GROUP	WS1260-16/3	G.C.	G.C.														
A18	1	3 COMP SINK 'L' SHAPE	CUSTOM FABRICATED	сиѕтом	G.C.	G.C.														
18-1	1	PRE-RINSE FAUCET	T&S BRASS	B-0133-12-CR-B	G.C.	G.C.								1/2"	1/2"	18"				
18-2	2	BIG-FLO MIXING FAUCET	T&S BRASS	B-0292	G.C.	G.C.								3/4"	3/4"	18"				
A 19	1	WALL SHELF, SINGLE	EAGLE GROUP	WS1224-16/3	G.C.	G.C.														
A21	1	ACCESSIBLE WORK TABLE, MOBILE	EAGLE GROUP	T3036STE	G.C.	G.C.	120	1	1.2	10		PLUG	48"							(1) GFCI CONVENIENCE RECEP
A22	4	DRY STORAGE SHELVING	METRO	METROMAX Q	G.C.	G.C.														
A23	1	(4) TIER LOCKER	OMCAN	13130	G.C.	G.C.														
A24	1	WALL FLASHING	ADVANCE TABCO	WF20	G.C.	G.C.														
A28	3	STAINLESS STEEL WALL END CAP	THE CORNER GUARD STORE	EC3P-SS4-1648-1.5-6	G.C.	G.C.														
A30	5	STAINLESS STEEL CORNER GUARD	ADVANCE TABCO	CG-84	G.C.	G.C.														
A31	1	FOOD WASTE DISPOSER	INSINKERATOR	SS-200	G.C.	G.C.	115	1		17.4	2	DIRECT	24"	1/2"		18"				1 1/2"
A32	1	SOAP DISPENSER	DEB		OWNER	G.C.														
A33	1	PAPER TOWEL DISPENSER	TORK	772828	OWNER	G.C.														

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

APP: 03-124069 INC:

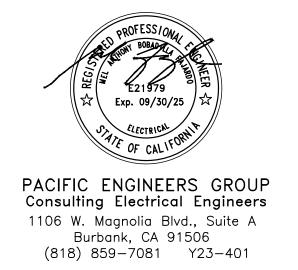
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SS FLS ACS D

DATE: 05/24/2024

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2601 BLANDFORD DRIVE ROWLAND HEIGHTS, CA 91748

ROWLAND UNIFIED SCHOOL DISTRICT
1830 NOGALES STREET

ROWLAND HEIGHTS, CA 91748

SUBMITTALS/ REVISIONS:

1 SCHEMATIC DESIGN 9/1

2 DESIGN DEVELOPMENT 12/

PROJECT NO: 202310

CALE: AS SHOWN

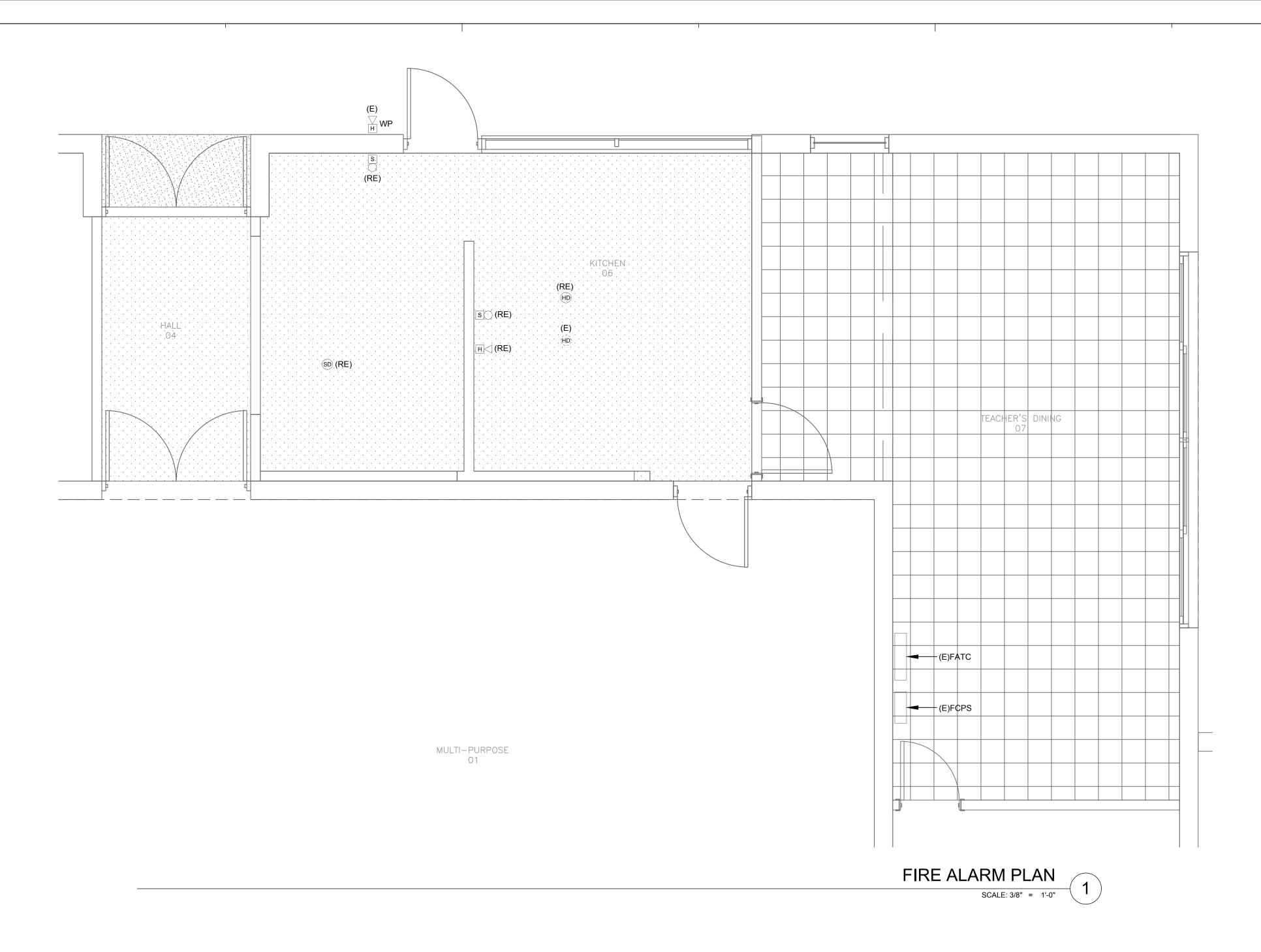
DATE: 12/4/2023

PRAWN BY: HY

POWER & SIGNAL PLANS

T NO:

E-2.2



SYMBOL & LEGEND

- EXISTING SMOKE DETECTOR, PHOTOELECTRIC TYPE "NOTIFIER #FSP-851", CSFM 7272-0028:0206.

- EXISTING HEAT DETECTOR, "NOTIFIER #FST-851", CSFM 7272-0028:0196.

WP > H - EXISTING EXTERIOR HORN, "SYSTEM SENSOR #HRK", CSFM 7135-1653:0189.

- EXISTING FIRE ALARM STROBE, "SYSTEM SENSOR #SR", CSFM 7125-1653:0189.

- EXISTING INTERIOR HORN, "SYSTEM SENSOR #HR", CSFM 7135-1653:0189.

- EXISTING FIRE ALARM CONTROL PANEL, "NOTIFIER #NFS2-640", CSFM 7165-0028:0243. A#03-114852

(ADMIN BUILDING).

- EXISTING FIRE ALARM POWER SUPPLY, "NOTIFIER #FCPS-24S6", CSFM 7315-0028:0225. A#03-114852.

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 03-124069 INC:

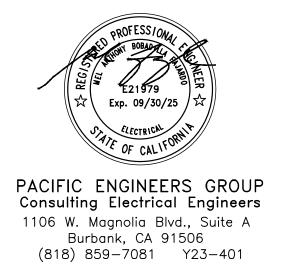
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SUBMITTALS/ REVISIONS:

SUBMITTALS/ REVISIONS:

1 SCHEMATIC DESIGN 9/19
2 DESIGN DEVELOPMENT 12/4

PROJECT NO: 202310

ATE: 12/4/2023

RAWN BY: HY

HECKED BY: AJ

SHEET TITLE:
FIRE ALARM PLAN

FA-1.1