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Z:\Shared\AlphaStudio\ASDG Projects\Active Projects\25-003 LUSD Lemon Crest Kitchen Expansion\ArchiCAD\25-0 LUSD Lemon Crest Kitchen Expansion.pln

KITCHEN EXPANSION
LEMON CREST ELEMENTARY SCHOOL

SHEET INDEX

SHEET TOTAL: 60

ARCHITECTURAL

COVER SHEET & GENERAL INFO
- T-001 COVER SHEET
- T-002 APPLICABLE CODES AND GENERAL NOTES
- T-003 ABBREVIATIONS AND TYPICAL SYMBOLS

SITE PLANS
- A-101 OVERALL SITE PLAN
- A-102 ENLARGED PARKING PLAN
- A-103 ENLARGED GATE PLAN & DETAILS
- A-104 SITE DETAILS

DEMOLITION PLANS
- AD-101 DEMOLITION FLOOR PLAN

FLOOR PLANS
- A-201 NEW WORK FLOOR PLAN
- A-202 FLOOR PLAN DETAILS

ENLARGED PLANS
- A-501 ENLARGED DEMOLITION RESTROOM PLANS
- A-502 ENLARGED NEW WORK RESTROOMS- STAFF
- A-503 ENLARGED NEW WORK RESTROOM PLANS- GIRLS & BOYS
- A-504 RESTROOM DETAILS

INTERIOR ELEVATIONS
- A-601 INTERIOR ELEVATIONS- LIBRARY
- A-602 CASEWORK DETAILS

REFLECTED CEILING PLANS
- A-701 DEMOLITION REFLECTED CEILING PLAN
- A-702 NEW WORK REFLECTED CEILING PLAN
- A-703 ACOUTICAL TILE CEILING DETAILS
- A-704 ACOUTICAL TILE CEILING DETAILS

ROOF PLANS
- A-801 NEW WORK ROOF PLAN
- A-802 ROOF DETAILS

DOOR AND GATE SCHEDULES
- A-901 SCHEDULES

STRUCTURAL
- S101 STRUCTURAL NOTES
- S102 TYPICAL DETAILS
- S201 PARTIAL FOUNDATION PLAN
- S202 PARTIAL ROOF FRAMING PLAN

MECHANICAL
- M0.1 MECHANICAL LEGEND & NOTES
- M1.1 MECHANICAL DEMO FLOOR PLAN
- M2.1 MECHANICAL NEW WORK FLOOR PLAN
- M2.2 MECHANICAL NEW WORK ROOF PLAN
- M3.1 MECHANICAL DETAILS
- M4.1 MECHANICAL TITLE 24
- M4.2 MECHANICAL TITLE 24

ELECTRICAL
- E-1.0 ELECTRICAL LEGEND AND NOTES
- E-1.1 OVERALL SITE PLAN
- E-2.0 TITLE 24
- E-2.1 FLOOR PLAN LIGHTING
- E-2.2 LIGHTING FIXTURE SCHEDULE
- E-3.1 BLDG 'N' PARTIAL FLOOR PLAN POWER
- E-3.2 ONE LINE DIAGRAM, PANEL SCHEDULE & DETAILS
- E-4.0 COMMUNICATIONS/ TECHNOLOGY LEGEND
- E-4.1 FLOOR PLAN COMMUNICATIONS
- E-4.2 COMMUNICATIONS DETAILS
- E-4.3 COMMUNICATION DETAILS
- E-5.1 FLOOR PLAN FIRE ALARM
- E-5.2 FIRE ALARM SCHEDULE, NOTES & RISER DIAGRAM
- E-5.3 FIRE ALARM CALCS & DETAILS
- E-10.1 FLOOR PLAN DEMOLITION

PLUMBING
- P0.1 PLUMBING LEGEND & NOTES
- P0.2 PLUMBING SCHEDULES
- P1.1 PLUMBING DEMO FLOOR PLAN
- P2.1 PLUMBING NEW WORK FLOOR PLAN
- P3.1 PLUMBING DETAILS

FOODSERVICE
- K-T FOODSERVICE TITLE SHEET AND FINISH SCHEDULE
- K-101 FOODSERVICE EQUIPMENT FLOOR PLAN AND SCHEDULE
- K-201 FOODSERVICE EQUIPMENT ELECTRICAL AND PLUMBING ROUGH-INS
- K-301 FOODSERVICE EQUIPMENT WALL BACKING ROUGH-INS
- K-401 FOODSERVICE EQUIPMENT ELEVATIONS
- K-501 FOODSERVICE EQUIPMENT ANCHORAGE DETAILS

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PROJECT SCOPE

THE SCOPE OF THIS PROJECT INCLUDES THE DEMOLITION AND RELOCATION OF ONE WALL, EXPANDING THE EXISTING KITCHEN AT BLDG 19. SCOPE ALSO INCLUDES VARIOUS SITE ACCESSIBILITY UPGRADES, INCLUDING (1) NEW PEDESTRIAN GATE AND (1) EXTERIOR CONCRETE WALK. SCOPE ALSO INCLUDES THE UPGRADE OF CASEWORK AT THE LIBRARY IN BLDG. 19.

VICINITY MAP



LEMON CREST ELEMENTARY SCHOOL
12463 LEMON CREST DR.
LAKESIDE CA 92040

A COMPLETED SITE FIRE SAFETY PLAN IS TO BE SUBMITTED TO THE DSA IN CONJUNCTION WITH THE FILING OF FORM DSA 102-IC: CONSTRUCTION START NOTICE/ INSPECTION CARD REQUEST, INCLUSIVE OF COMPLETING SECTION 3 OF THE FORM PER DSA BU 24-05.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124851 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/14/2026

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LAKESIDE
UNION SCHOOL DISTRICT

KITCHEN EXPANSION
LEMON CREST ELEMENTARY SCHOOL
12463 LEMON CREST DR.
LAKESIDE, CA 92040
LAKESIDE UNION SCHOOL DISTRICT
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REVISIONS

MARK	DATE	DESCRIPTION
	4/14/2026	DSA V3 SUBMITTAL

PROJECT NO: #Pln

MODEL FILE:
25-0 LUSD Lemon Crest Kitchen Expansion.pln

PLOT DATE:
4/9/2026

SHEET TITLE

COVER SHEET

T-001

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KITCHEN EXPANSION
LEMON CREST ELEMENTARY SCHOOL

GENERAL CONSTRUCTION NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPLICABLE CODES LISTED ON THIS SHEET. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE FAMILAR WITH ALL CODES AND ORDINANCES, CITY OR STATE AS REQUIRED FOR THE CONSTRUCTION OF THE FOLLWOING PROJECT. WHERE CONFLICTS OCCUR BETWEEN FEDERAL, STATE, AND LOCAL LAWS, CODES, ORDINANCES, AND REGULATIONS, THE MOST STRINGENT SHALL GOVERN,
2. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE REQUIREMENTS OF BOTH THE UNIFORM BUILDING CODE AND TITLE 24, CALIFORNIA CODE OF REGULATIONS.
3. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO THE START OF WORK. THE EXISTING CONDITIONS SHALL INCLUDE, BUT NOT BE LIMITED TO: IRRIGATION, DRAINAGE, SITE MEHCANICAL, PLUMBING, AND ELECTRICAL. THE CONTRACTOR SHALL NOTIFY THE ARCHTIECT OF ANY DISCREPANCIES IN SITE CONDITIONS AND CONTRACT DOCUMENTS. FAILURE TO NOTIFY WHILE PROCEEDING WITH WORK SHALL IMPLY ACCEPTANCE OF THE SITE CONDITIONS BY THE CONTRACTOR FOR THE WORK INTENDED.
4. THE CONTRACTOR SHALL PROVIDE ADEQUATE AND SAFE BRACING TO SUPPORT THE COMPONENTS OF THE STRUCTURE UNTIL THE STRUCTURE ITSELF, FLOOR AND ROOF DIAPHRAGMS ARE COMPLETE ENOUGH TO SUPPORT ITSELF. THE SAFETY AND ERECTION OF BRACING SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THERE ARE NO DISCREPENCIES BEWTEEN THE ARCHITECTURAL DRAWINGS AND THE CONSULTING ENGINEER'S DRAWINGS WHICH WOULD CAUSE A CONFLICT IN THE INSTALLATION OF THE SYSTEMS. IF SUCH A CONFLICT DOES OCCUR, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ALERT THE ARCHITECT TO THE SITUATION PRIOR TO INSTALLATION. ANY WORK INSTALLED IN CONFLICT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REMEDY WITH NO ADDITIONAL COST TO THE OWNER.
6. THE CONTRACTOR SHALL REFER TO THE SPECIFICATIONS FOR A COMPLETE LIST OF GENERAL CONDITIONS, SPECIAL CONDITIONS, AND MATERIAL INSTALLATION METHODOLOGY.
7. TYPICAL NOTES AND DETAILS SHALL APPLY UNLESS SHOWN OTHERWISE, WHERE A CONSTRUCTION DETAIL IS NOT SHOWN OR NOTED, THE DETAIL SHALL BE THE SAME AS FOR A SIMILAR CONDITION.
8. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS, SERVICES, POINTS OF CONNECTION, AND IRRIGATION LINES IN THE CONSTRUCTION AREA PRIOR TO COMMENCEMENT OF WORK. IF PROPER VERIFICATION IS NOT DONE PRIOR TO WORK COMMENCING, AND DAMAGE IS INCURRED THE CONTRACTOR SHALL REPAIR THE DAMAGE AT NO COST TO THE OWNER.
9. ALL DRAWINGS ARE FOR ILLUSTRATION ONLY, THE CONTRACTOR AND SUBCONTRACTORS, SHALL NOT LOCATE ITEMS BY SCALING. IF ITEMS ARE MISLOCATED DUE TO SCALING, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND CORRECTLY INSTALLING THE ITEMS AT NO EXPENSE TO THE OWNER.
10. IT IS THE INTENT OF THESE DRAWINGS TO INDICATE A COMPLETE AND FINISHED PRODUCT AND / OR ABUTING EXISTING CONDITION IN A FINSHED AND PROFESSIONAL MANNER.
11. IT IS THE CONTRACTOR'S RESPONSIBILITY TO KEEP THE AREA AROUND THE WORK IN A CLEAN AND SAFE CONDITION. ALL TRASH AND DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER. AREA OF WORK SHALL BE COMPLETELY CLEANED AND READY FOR OCCUPANCY UPON COMPLETION OF WORK.
12. ALL WORK SHALL CONFORM TO TITLE 24 2022 CA CODE OF REGULATIONS. A COPY OF TITLE 24, PARTS 1-5, SHALL BE AVAILABLE ON THE JOBSITE AT ALL TIMES.
13. CHANGES TO THE APPROVED DRAWINGS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DSA, AS REQUIRED BY SEC. 4-338, PART 1, T-24, CCR. ALL ADDENDA AND CONSTRUCTION CHANGE DOCUMENTS SHALL BE SIGNED BY THE ARCHITECT.
14. 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. A MINIMUM CLASS 3 INSPECTOR IS REQUIRED.
15. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE OWNER SHALL CONDUCT ALL REQUIRED TESTING AND SPECIAL INSPECTIONS FOR THE PROJECT AS IDENTIFIED ON THE DSA 103 TESTING AND INSPECTION FORM.
16. THE PROJECT SHALL CONFORM TO CURRENT ADA STANDARDS 2019 CBC CHAPTER 11 B.
17. FOOD HANDLING FACILITIES SHALL COMPLY WITH ALL LOCAL HEALTH REQUIREMENTS AND CALIFORNIA UNIFORM RETAIL FOOD FACILITIES LAWS.
18. 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 OF NONCOMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TILE 24, CALIFORNIA CODE OF REGULATIONS, A CCD, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE DIVISION OF STATE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
19. THE ARCHITECT AND OR ENGINEER SHALL MAKE PERIODIC SITE VISITS DURING CONSTRUCTION TO OBSERVE THE PROGRESS OF THE WORK AND VERIFY GENERAL CONFORMANCE TO THE PLANS AND SPECIFICATIONS IS BEING MET. THESE VISIT DO NOT CONSTITUTE A GUARANTEE OF THE CONTRACTOR'S WORK. A CONTRACTOR'S ERROR THAT GOES UNDETECTED DURING A PERIODIC VISIT DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR PROPERLY PERFORMING THE SCOPE OF THE PROJECT.
20. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ADJACENT STRUCTURES, PROPERTY, AND SITE FEATURES DURING CONSTRUCTION. ANY DAMAGE TO SUCH ITEMS SHALL BE PROMPTLY RESTORED TO THE SATISFACTION OF THE OWNER AND ARCHITECT.
21. CONTRACTORS AND SUBCONSTRATORS ARE REQUIRED TO SUBMIT THEIR BIDS BASED ON ALL DRAWINGS AND SPECIFICATIONS, NOT SOLELY THE SHEETS OR SECTIONS RELEVANT TO THEIR TRADE.
22. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO BE COMPLIMENTARY IN NATURE, HOWEVER IF A DISCREPANCY OCCURS BETWEEN THE TWO DOCUMENTS, THE MORE STRINGENT REQUIREMENT AND HIGHEST LEVEL OF QUALITY SHALL TAKE PRECENDENCE.
23. ALL DETAILS PROVIDED IN THE CONSTRUCTION DOCUMENTS ARE A PART OF THE CONSTRUCTION SCOPE REGARDLESS OF WHETHER THEY ARE SPECIFICALLY REFERENCED.
24. MAINTAIN THE INTEGRITY OF ALL EXISTING RATED ASSEMBLIES U.O.N.

GENERAL DEMOLITION NOTES

1. DEMOLITION PLANS REFERENCE GENERAL ITEMS AND CONDITION VARIATIONS MAY OCCUR WITHIN AREA OF DEMOLITION AND SHALL BE TREATED AS SIMILAR.
2. NOT ALL LOCATIONS FOR DEMOLITION MAY BE NOTED. CONTRACTOR SHALL REVIEW THE PROJECT REQUIREMENTS AND BE FAMILIAR WITH THE EXISTING SITE CONDITIONS FOR EVALUATION OF DEMOLITION WORK NECESSARY TO COMPLETE THE NEW WORK.
3. KEY NOTES REFERENCE GENERAL ELEMENTS FOR DISPOSAL OR SALVAGE. VARIOUS ASSOCIATED ITEMS MAY OCCUR AND SHALL BE REMOVED ACCORDING TO THE NEEDS AND DESIGN INTENT OF THE NEW CONSTRUCTION.
4. THE CONTRACTOR SHALL NOT REMOVE OR ALTER ANY BUILDING ELEMENTS OR SYSTEMS NECESSARY FOR THE BUILDING'S STRUCTURAL INTERGRITY WITHOUT PRIOR AUTHORIZATION FROM THE ARCHITECT AND/OR STRUCTURAL ENGINEER OF RECORD.
5. CONTRACTOR SHALL NOT ALTER OR REMOVE ANY SHEAR WALLS OR BEARING WALLS UNLESS IDENTIFIED ON THE DRAWINGS WITH APPROPRIATE DETAILS. THE COTNRACTOR SHALL TAKE PRECAUTIONS DURING DEMOLITION AND CONSTRUCTION ACITIVITES TO NOT EFFECT THE EXISTING STRUCTURAL SYSTEM OF THE BUILDING. IF DURING THE COURSE OF THE WORK, ELEMENTS THAT ARE IDENTIFIED TO BE DEMOLISHED, BUT APPEAR STRUCTURAL IN NATURE AND NOT IDENTIFIED AS SUCH, THE CONTRACTOR SHALL NOTFIY THE ARCHITECT IMMEDIATELY. THE CONTRACTOR SHALL NOT PROCEED WITH THE DEMOLITION OF SUCH ELEMENTS WITHOUT THE DIRECTION OF THE ARCHITECT AND/OR STRUCTURAL ENGINEER OF RECORD.
6. AFTER THE DEMOLITION AND REMOVAL OF ELEMENTS, REPAIR AND RESTORE EXISTING FINISHES TO BE LEFT EXPOSED TO THEIR ORIGINAL CHARACTER. WHERE EXISTING FINISHES ARE TO BE HIDDEN WITH NEW MATERIALS, THOSE FINISHES SHALL BE RESTORED TO PROVIDE ADEQUATE SUITABILITY, STRENGTH, AND SUBSTRATE FOR NEW CONSTRUCTION AND FINISHES.
7. CONTRACTOR SHALL COMPLY WITH THE FOLLOWING SECTIONS OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION:
   - 5-2 PROTECTION
   - 5-3 REMOVAL
   - 5-4 RELOCATION
   - 7-8 PROJECT SITE MAINTENANCE
   - 7-9 PROTECTION AND RESTORATION OF EXIST. IMPROVEMENTS
   - 7-10 PUBLIC CONVENIENCE AND SAFETY
8. SAFETY DURING CONSTRUCTION SHALL COMPLY WITH CHAPTER 33 C.B.C. AND CHAPTER 33 C.F.C.
9. THE CONTRACTOR SHALL DISPOSE OF DEMOLITION MATERIALS IN A LEGAL AND ACCEPTABLE MANNER.
10. CONTRACTOR SHALL MAKE AVAILABLE TO OWNER ANY MATERIALS OR EQUIPMENT LISTED FOR DEMOLITION, DISPOSAL. REMOVAL, ETC. UPON OWNERS REQUEST. OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL SALVAGABLE ITEMS.
11. CONTRACTOR SHALL KEEP OPERATING EQUIPMENT OR MATERIALS INDICATED FOR REUSE, RELOCATION, OR OWNER RETENTION IN A SAFE MANNER TO PROTECT THE MATERIAL OR EQUIPMENT FROM DAMAGE.
12. THE CONTRACTOR IS RESPONSIBLE TO PERFORM ALL DEMOLITION WORK NECESSARY TO ALLOW EXECUTION OF ALL REQUIREMENTS OF THE NEW CONSTRUCTION UNDER THIS CONTRACT. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ALL EXISTING CONDITIONS.
13. THE RECORD DRAWINGS FOR THE FACILITIES TO BE MODERNIZED MAY BE AVAILABLE FROM THE DISTRICT FOR REFERENCE. CONTRACTOR SHALL REQUEST DRAWINGS OR OTHER OWNER SUPPLIED DOCUMENTS PRIOR TO BEGINNING DEMOLITION OR CONSTRUCTION ACTIVITES. THE CONTRACTOR SHALL REVIEW THE RECORD DOCUMENTS TO DETERMINE ANY CONDITIONS WHERE CONFLICTS, HARDSHIPS, OR SIMILIAR ISSUES MAY ARISE. THE CONTRACTOR SHALL NOTIFY THE ARCHTIECT OF ANY CONDITIONS WHERE CONFLICTS MAY ARISE PRIOR TO DEMOLITION OR CONSTRUCTION ACTIVITIES.
14. AREA OF FLOOR SLAB OR PAVING DEMOLITION IS SHOWN AS AN APPROXIMATION ONLY TO DEFINE GENERAL SCOPE OF WORK. EXISTING CONDITIONS MAY REQUIRE A LARGER / DIFFERENTLY CONFIGURED AREA OF DEMOLITION. REMOVAL SHALL BE IN ACCORDANCE TO THE NEEDS AND DESIGN INTENT OF THE NEW CONSTRUCTION. COORDINATE DEMOLITION REQUIREMENTS WITH CIVIL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DESIGN AND DRAWINGS.
15. ALL FLOOR SLAB AND/OR PAVING SAWCUTS SHALL BE DONE IN A MANNER THAT CREATES A SHARP, STRAIGHT, AND SQUARE EDGE. SAW CUT EDGES EXPOSED FOR LONG DURATIONS DURING CONSTRUCTION SHALL BE PROTECTED BY THE CONTRACTOR IN ORDER TO LIMIT CHIPPING OF CONCRETE EDGE. IF CHIPPING OR OTHER DAMAGE OCCURS, CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING ADDITIONAL FLOOR SLAB AND/OR PAVING TO NEXT AVAILABLE JOINT OR AS DETERMINED BY ARCHITECT AT THE CONTRACTOR'S OWN COST.
16. WHERE EQUIPMENT AND/OR FIXTURES ARE INDICATED TO BE REMOVED ALL RELATED EXPOSED PIPING, CONDUITS, AND ASSOCIATED ITEMS SHALL ALSO BE REMOVED AND/ OR PROPERLY TERMINATED TO PROVIDE COMPLETE DEMOLITION.
17. WHERE EXISTING CONSTRUCTION ELEMENTS (FRAMING, FINISHES, PIPES, CONDUITS, DUCTWORK, EQUIPMENT, ETC.) INTERFERE WITH THE INTENDED NEW CONSTRUCTION OR WOULD BE EXPOSED IN OTHERWISE 'FINISHED' AREAS, THESE ITEMS SHALL ALSO BE REMOVED AND/OR RELOCATED.
18. AT DEMOLITION OF DOORS, WINDOWS, FLASHINGS, SOFFITS, ETC. WHERE PLASTER IS DISTURBED AT FINISHES TO REMAIN, REMOVE PLASTER BACK 6" MINIMUM TO EXPOSE LATH TO PERFORM PROPER PLASTER PATCH.
19. REFER TO STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ALL DEMOLITION WORK SPECIFIC TO THOSE BUILDING SYSTEMS.
20. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REQUEST ANY HAZARDOUS ABATEMENT DOCUMENTS FOR THE SCOPE OF WORK TO FULLY UNDERSTAND THE EXTENT OF REMOVAL AND DISPOSAL REQUIREMENTS FOR THOSE MATERIALS.
21. ALL ABATEMENT WORK SHALL BE COMPLETED BY THE CONTRACTOR PRIOR TO DEMOLITION WORK.
22. ALL EQUIPMENT OR SYSTEMS DISCONNECTED AS A RESULT OF THE DEMOLITION WORK SHALL BE REESTABLISHED, CONNECTED, AND FUNCTIONAL. THE ARCHITECT SHALL BE NOTIFIED WHEN SUCH SYSTEMS AND EQUIPMENT ARE REQUIRED TO BE DISCONNECTED.

GENERAL ACCESIBILITY NOTES

1. EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE. HAND-ACTIVATED DOOR OPENING HARDWARE SHALL BE MOUNTED BETWEEN 34" AND 44" ABOVE FINISH FLOOR (PANIC HARDWARE SHALL BE MOUNTED BETWEEN 34" AND 44" ABOVE FIN. FLR.). LATCHING AND LOCKING DOORS THAT ARE HAND ACTIVATED AND IN A PATH OF TRAVEL, SHALL BE OPENABLE WITH A SINGLE EFFORT BY LEVER-TYPE HARDWARE, BY EXIT DEVICE, OR PUSH-PULL ACTIVATING BARS. LOCKED EXIT DOORS SHALL OPERATE BY ABOVE IN DIRECTON OF EGRESS.
2. MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5.0 POUNDS FOR EXTERIOR AND INTERIOR DOORS, SUCH PUSH OR PULL EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS.
3. DOOR CLOSERS AND GATES CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM.
4. THE FLOOR OR LANDING SHALL NOT BE MORE THAN 1/2 INCH LOWER THAN THE THRESHOLD OF THE DOORWAY. CHANGE IN LEVEL BETWEEN 1/4 AND 1/2 INCH SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1 UNIT VERTICAL TO 2 UNITS HORIZONTAL.
5. ACCESSIBLE FIXTURES SHALL BE INSTALLED IN STRICT ACCORDANCE WITH CALIFORNIA PLUMBING CODE, 2025 EDITION.
6. EXPOSED LAVATORY P-TRAP ASSEMBLIES AND WATER SUPPLY LINES SHALL BE INSTALLED WITH REMANUFACTURED VINYL COVERED P-TRAP, VALVE, AND SUPPLY INSULATED COVER.
7. THE FORCE REQUIRED TO OPERATE LAVATORY OR SINK FAUCETS SHALL BE NO GREATER THAN 5 POUNDS, SELF-CLOSING FAUCETS SHALL HAVE A MINIMUM 10 SECOND CYCLE TIME.
8. ALL ACCESSIBLE GATES WITHIN THE PATH OF TRAVEL SHALL HAVE NON-GRIP HARDWARE MOUNTED BETWEEN 34" TO 44" ABOVE FINISH PAVING. THERE SHALL BE 24" MINIMUM CLEAR SPACE PROVIDED AT THE STRIKE SIDE OF THE GATE FOR ACCESSIBLE MANEUVERING CLEARANCES.
9. ALL DIMENSIONS FOR ACCESSIBLE COMPONENTS, FEATURES, OR CLEAR FLOOR SPACE ARE TO FACE OF FINISH UNLESS OTHERWISE NOTED.
10. WHERE FLOOR DRAINS ARE PROVIDED, FINISHED SURFACE SHALL SLOPE TO DRAIN NO MORE THAN 2% IN ANY DIRECTION. FLOOR DRAINS AND FLOOR SINKS SHALL HAVE 1/2" MAXIMUM GRATE OPENINGS IN ALL DIRECTION.
11. ACCESSIBLE PATH OF TRAVEL (POT) SHALL BE A BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" BEVELED 1:2 MAX SLOPE OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAX. POT SHALL BE AT LEAST 48" IN WIDTH WITH A STABLE, FIRM, AND SLIP RESISTANT SURFACE. CROSS SLOPE SHALL NOT EXCEED 2% MAX AND THE SLOPE IN THE DIRECTION OF TRAVEL SHALL NOT EXCEED 5%. POT SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM ABOVE FINISHED SURFACE AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM THE WALL AND 27" ABOVE FINISHED SURFACE, BUT LESS THAN 80" ABOVE FINISHED SURFACE. REFERENCE CBC 11B-202.4.
12. OPENINGS IN GRATINGS OR STRAINERS LOCATED IN THE PEDESTRIAN CIRCULATION PATHS OR PATH OF TRAVEL SHALL NOT ALLOW PASSAGE OF A SPHERE MORE THAN 1/2" DIAMETER. ELONGATED OPENINGS SHALL BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL IN COMPLIANCE WITH CBC 11B-302.
13. GATES IN THE PATH OF TRAVEL SHALL COMPLY WITH EXIT DOOR REQUIREMENTS.

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT

THE PATH OF TRAVEL (POT) IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS 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 ELEMENTS, COMPONENTS, OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NONCOMPLIANT HAVE BEEN IDENTIFIED AND, THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT THROUGH DETAILS, DRAWINGS, AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS.

ANY NONCOMPLIANT ELEMENTS, COMPONENTS, OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINIDNG OF UNREASONABLE HARDSHIP ARE INDICATED IN THESE CONSTRUCTION DOCUMENTS. DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS COMPLIANT ARE FOUND TO BE NON-CONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGH INTO COMPLIANCE BY MEANS OF A CONSTRUCTION CHANGE CHANGE DOCUMENT (CCD).

GENERAL ENERGY NOTES

1. 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 COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.
2. LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).
3. MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.
4. ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ARCHITECT OF RECORD OR THE OWNER'S AGENT.
5. 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.
6. 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 AND PASS THE REQUIRED ACCEPTANCE CRITERIA.
7. PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

APPLICABLE CODES

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

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

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

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

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

2025 CALIFORNIA ENERGY CODE, PART 6, TITLE 24, CCR

2025 CALIFORNIA FIRE CODE, PART 9, TITLE 24, CCR

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

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

2025 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24, CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

APPLICABLE STANDARDS

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

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APP: 04-124851 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/14/2026

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ARCHITECT OF RECORD

LICENSED ARCHITECT
PAUL R. GALLEGOS
No. C24063
EXP. 01/27
STATE OF CALIFORNIA

ENGINEER OF RECORD

LAKESIDE
UNION SCHOOL DISTRICT

KITCHEN EXPANSION
LEMON CREST ELEMENTARY SCHOOL
12463 LEMON CREST DR.
LAKESIDE, CA 92040

LAKESIDE UNION SCHOOL DISTRICT
12335 WOODSIDE AVE LAKESIDE CA 92040

REVISIONS

MARK	DATE	DESCRIPTION
	4/14/2026	DSA V3 SUBMITTAL

PROJECT NO: #Pln

MODEL FILE:
25-0 LUSD Lemon Crest Kitchen Expansion.pln

PLOT DATE:
4/9/2026

SHEET TITLE

APPLICABLE CODES AND GENERAL NOTES

T-002

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KITCHEN EXPANSION
LEMON CREST ELEMENTARY SCHOOL

STANDARD ABBREVIATIONS

&	AND	GA.	GAUGE	STD.	STANDARD
<	ANGLE	GALV.	GALVANIZED	STL.	STEEL
@	AT	GB.	GRAB BAR	ST.	STEEL
A	AMP	GC.	GENERAL CONTRACTOR	STO.	STORAGE
AB.	ANCHOR BOLT	GL.	GLASS	STRUC.	STRUCTURAL
ABV.	ABOVE	GI.	GALVANIZED IRON	STR.	STRUCTURAL
AC.	ASPAHLT	GND.	GROUND	SUSP.	SUSPENDED
A/C.	AIR CONDITIONING	GPDW.	GYPSUM DRYWALL	SYM.	SYMMETRICAL
ACOUS.	ACOUSTICAL	GRD.	GRADE	T	TREAD
AD.	AREA DRAIN	GV.	GATE VALVE	TB.	TOWEL BAR
ADJ.	ADJUSTABLE	GYP.	GYPSUM	T&B	TOP AND BOTTOM
AGGR.	AGGREGATE	HB.	HOSE BIB	TOC	TOP OF CURB
AFF.	ABOVE FINISH FLOOR	HC.	HOLLOW CORE	TEL.	TELEPHONE
AL.	ALUMINUM	HD.	HEAD	TEM.	TEMPERED
AP.	ACCESS PANEL	HDR.	HEADER	TER.	TERAZZO
APPROX.	APPROXIMATE	HDW.	HARDWARE	TF.	TOP OF FOOTING
ARCH.	ARCHITECTURAL	HM.	HOLLOW METAL	T&G	TONGUE AND GROOVE
ASC.	ABOVE SUSPENDED CEILING	HDWD.	HARDWARE	THK.	THICK
AS.	AUTOMATIC SPRINKLER	HNDRL.	HANDRAIL	TP.	TOP OF PARAPET
AUTO.	AUTOMATIC	HORIZ.	HORIZONTAL	TPD.	TOILET PAPER DISPENSER
BD	BOARD	HVAC.	HEATING, VENTILATING, AIR CONDITIONING	TS	TOP OF STRUCTURE
BFG.	BELOW FINISH GRADE	ID.	INSIDE DIAMETER	TTB.	TELEPHONE TERMINAL BACKBOARD
BITUM.	BITUMINOUS	IE.	INVERT ELEVATION	TV.	TELEVISION
BLDG.	BUILDING	IF.	INSIDE FACE	TOW.	TOP OF WALL
BLK.	BLOCK	IN.	INCH	TYP.	TYPICAL
BM.	BEAM	INC.	INCLUDE	UG.	UNDERGROUND
BRG.	BEARING	INFO.	INFORMATION	UNF.	UNFINISHED
BRK.	BRICK	INSUL.	INSULATION	UNO	UNLESS NOTED OTHERWISE
BOT.	BOTTOM	INT.	INTERIOR	UON	UNLESS OTHERWISE NOTED
BTU.	BRITISH THERMAL UNIT	INV.	INVERT	UR	URINAL
C.	CONDUIT	JAN.	JANITOR	UTIL.	UTILITY
CAB.	CABINET	JST.	JOIST	VAR.	VARIES
CB.	CATCH BASIN	JT.	JOINT	VB.	VAPOR BARRIER
CD.	CEILING DIFFUSER	KIT.	KITCHEN	VCT.	VINYL COMPOSITION TILE
CEM.	CEMENT	KP.	KICK PLATE	VERT.	VERTICAL
CER.	CERAMIC	KVA	KILOVOLT AMPERES	VEST.	VESTIBULE
CF.	CUBIC FEET	KW	KILOWATT	VIF.	VERIFY IN FIELD
CFM.	CUBIC FEET PER MINUTE	MAS.	MASONRY	VTR.	VENT THROUGH ROOF
CG.	CORNER GUARD	MAT'L.	MATERIAL	W	WEST
CI.	CAST IRON	MAX.	MAXIMUM	W/	WITH
CIP.	CAST IN PLACE	MC.	MEDICINE CABINET	WC.	WATER CLOSET
CKT. BKR.	CIRCUIT BREAKER	MECH.	MECHANICAL	WCO.	WALL CLEAN OUT
CL.	CENTERLINE	MFR.	MANUFACTURER	WD.	WOOD
CLG.	CEILING	MH.	MANHOLE	WDW.	WINDOW
CLR.	CLEAR	MIN.	MINIMUM	WH.	WATER HEATER
CMU.	CONCRETE MASONRY UNIT	MIR.	MIRROR	W/O	WITHOUT
CNTR.	COUNTER	MISC.	MISCELLANEOUS	WP.	WATERPROOF
CO.	CLEANOUT	MO.	MASONRY OPENING	WSCT.	WAINSCOT
COTG.	CLEANOUT TO GRADE	MTD.	MOUNTED	WT.	WEIGHT
COL.	COLUMN	MTL.	METAL	WWF.	WELDED WIRE FABRIC
CONC.	CONCRETE	MUL.	MULLION	WWM.	WELDED WIRE MESH
CONN.	CONNECTION	N.	NORTH		
CPT.	CARPET	NIC.	NOT IN CONTRACT		
CTR.	CENTER	NO.	NUMBER		
CTSK.	COUNTERSINK	NOM.	NOMINAL		
CW.	COLD WATER	NTS.	NOT TO SCALE		
D.	DRAIN	OA.	OUTSIDE AIR		
DBL.	DOUBLE	O/A	OVERALL		
DEPT.	DEPARTMENT	OBS.	OBSCURE		
DET.	DETAIL	OC.	ON CENTER		
DF.	DINKING FOUNTAIN	OD.	OUTSIDE DIAMETER		
DIA.	DIAMETER	OFF.	OFFICE		
DIM.	DIMENSION	OH.	OPPOSITE HAND		
DISP.	DISPENSER	OPNG.	OPENING		
DMT.	DEMOUNTABLE	OPP	OPPOSET		
DN.	DOWN	OVHD.	OVERHEAD		
DO.	DOOR OPENING	PAV.	PAVING		
DR.	DRAIN	PC.	PRECAST CONCRETE		
DS.	DOWNSPOUT	PCC.	PORTLAND CEMENT CONCRETE		
DWG.	DRAWING	PHP.	PARTIAL HEIGHT PARTITION		
DWR.	DRAWER	PLT.	PLATE		
EXIST.	EXISTING	PL	PROPERTY LINE		
E.	EAST	PLAM	PLASTIC LAMINATE		
EA.	EACH	PLAS.	PLASTER		
EF.	EXHAUST FAN	PLYWD.	PLYWOOD		
EJ.	EXPANSION JOINT	PLBG.	PLUMBING		
ELEC.	ELECTRICAL	POC.	POINT OF CONNECTION		
ELEV.	ELEVATOR	PP.	POWER POLE		
EMER.	EMERGENCY	PRCST	PRE-CAST		
ENCL.	ENCLOSURE	PSI.	POUNDS PER SQUARE INCH		
EP.	ELECTRICAL PANELBOARD	PT.	POINT		
EQ.	EQUAL	PTD.	PAPER TOWEL DISPENSER		
EQUIP.	EQUIPMENT	PTN.	PARTITION		
EW.	EACH WAY	PVMT.	PAVEMENT		
EWC.	ELECTRIC WATER COOLER	QT.	QUARRY TILE		
EH.	EXHAUST	R.	RISER		
EXIST.	EXISTING	RAD.	RADIUS		
EXPO.	EXPOSED	RD.	ROOF DRAIN		
EXP.	EXPANSION	REF.	REFERENCE		
EXT.	EXTERIOR	REFR.	REFRIGERATOR		
FAS.	FASTNER	REINF.	REINFORCED		
FA.	FIRE ALARM	REQ'D.	REQUIRED		
FB.	FACE BRICK	REV.	REVISION		
FCO.	FLOOR CLEANOUT	RESIL.	RESILIENT		
FD.	FLOOR DRAIN	RM.	ROOM		
FDN.	FOUNDATION	RO.	ROUGH OPENING		
FE.	FIRE EXTINGUISHER	RDWD.	REDWOOD		
FEC.	FIRE EXTINGUISHER CABINET	S.	SOUTH		
FF.	FINISH FLOOR	SC.	SOLID CORE		
FG.	FINISH GRADE	SCHED.	SCHEDULE		
FH.	FIRE HYDRANT	SD.	SOAP DISPENSER		
FHC.	FIRE HOUSE CABINET	SECT.	SECTION		
FIN.	FINISH	SF.	SQUARE FOOT		
FL.	FLOW LINE	SH.	SHELF		
FLR.	FLOOR	SHR.	SHOWER		
FLOUR.	FLOURESCENT	SHT.	SHEET		
FOC.	FACE OF CONCRETE	SIM.	SIMILAR		
FOF.	FACE OF FINISH	SMH	SEWER MANHOLE		
FOM.	FACE OF MASONRY	SND.	SANITARY NAPKIN DISPENSER		
FOS.	FACE OF STUD	SOV.	SHUT OFF VALVE		
FPRF.	FIREPROOFING	SPEC.	SPECIFICATIONS		
FS	FINISH SURFACE	SPKR.	SPRINKLER		
FT.	FOOT	SQ.	SQUARE		
FTG.	FOOTING	SS.	STAINLESS STEEL		
FUT.	FUTURE	STA.	STATION		

ACOUSTIC TILE CEILING (ATC) IN SUSPENDED T-BAR CEILING GRID (2'X4')

GYPSUM BOARD CEILING (INTERIOR)
STUCCO SOFFIT (EXTERIOR)

SUSPENDED LIGHT FIXTURE IN ATC

LIGHT FIXTURE

AIR DIFFUSER (SUPPLY)

AIR DIFFUSER (RETURN)

FINISHED CEILING HEIGHT, WHERE HEIGHTS ARE NOT INDICTAED REFER TO FINISH SCHEDULE. — N'-N"

EXISTING WALL TO REMAIN

NEW WALL

EXISTING WALL TO BE DEMOLISHED

HATCH MAY VARY BASED ON RATING

RATED WALL (NEW OR EXISTING)

WINDOW (NEW OR EXISTING)

WINDOW TO BE DEMOLISHED

DOOR (NEW OR EXISTING)

DOOR TO BE DEMOLISHED

DIRECTION OF FLOW

ROOF DRAIN/OVERFLOW DRAIN

CRICKET

APPROXIMATE LOCATION OF PROTECTIVE ROOF WALKTOP

TYPICAL SYMBOLS

ROOM ELEVATION — X/1, X/2, X/3, X/4, A-X.X — 'X' INDICATES CORRESPONDING ELEVATION REFERENCE; NUMBER REFERENCES FINISH SCHEDULE ELEVATION; CORRESPONDING SHEET NUMBER OF ELEVATION

DETAIL REFERENCE — N, A-X.X — DETAIL NUMBER; CORRESPONDING SHEET NUMBER OF DETAIL

EXTERIOR ELEVATION MARKER — N, A-X.X — EXTERIOR ELEVATION NUMBER; CORRESPONDING SHEET NUMBER OF ELEVATION

SECTION MARKER — A, A-X.X — ORIENTATION OF SECTION CUT; BUILDING SECTION LETTER; CORRESPONDING SHEET NUMBER OF SECTION

DOOR IDENTIFICATION — N, D000 — CORRESPONDING ROOM NUMBER; DOOR NUMBER

WINDOW IDENTIFICATION — 000 — WINDOW NUMBER

REVISION — N — REVISION NUMBER

KEYNOTE — N, TYP — KEYNOTE NUMBER; TYPICAL WHERE NOTED. TYPICAL ITEMS WILL NOT BE NOTED AT ALL LOCATION.

ROOM NAME/NUMBER MARKER — ROOM NAME / ROOM NUMBER

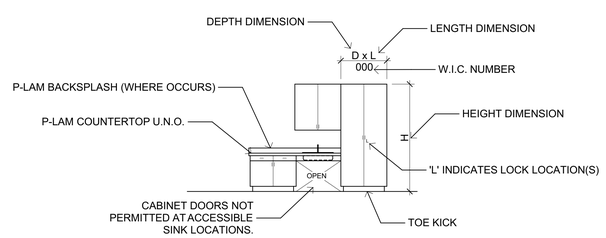
EXISTING ACCESSIBLE PATH OF TRAVEL (POT)

NEW ACCESSIBLE PATH OF TRAVEL (POT) — 0.00 — ARCHITECTURAL SPOT ELEVATION (WHERE OCCURS)

60" DIAMETER ACCESSIBLE CLEAR SPACE

30"X48" ACCESSIBLE CLEAR SPACE

TYPICAL CABINET DESIGNATION (BASE, FULL, OVERHEAD)



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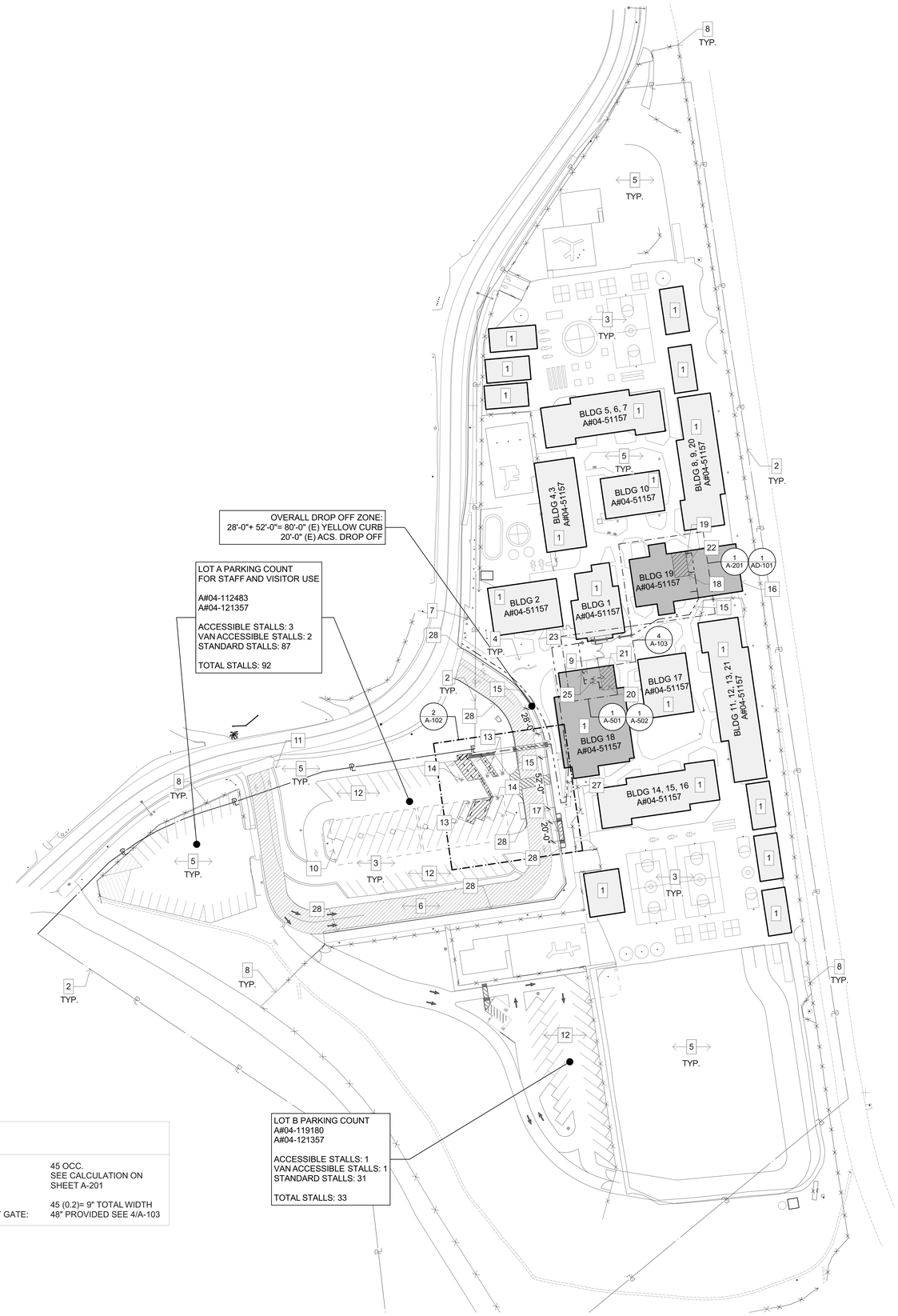
SHEET TITLE

ABBREVIATIONS AND TYPICAL SYMBOLS

T-003

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EXIT ANALYSIS

EDUCATIONAL	45 OCC. SEE CALCULATION ON SHEET A-201
REQUIRED EXIT GATE WIDTH: TOTAL 4'-0" WIDE SINGLE LEAF EXIT GATE:	45 (0.2)= 9" TOTAL WIDTH 48" PROVIDED SEE 4/A-103

1 OVERALL SITE PLAN
SCALE: 1" = 50'

NORTH

0 20' 50' 100'

KEYNOTES

1. EXISTING BUILDING TO REMAIN - N.I.C.
2. EXISTING PROPERTY LINE.
3. EXISTING ASPHALT PAVING TO REMAIN.
4. EXISTING CONCRETE PAVING TO REMAIN.
5. EXISTING LANDSCAPE AREA TO REMAIN - N.I.C.
6. EXISTING FIRE LANE PER DSA APPROVED A#04-51157. SEE ALSO FIRE ACCESS PLAN PER DSA APPROVED A#04-125291.
7. EXISTING FIRE HYDRANT TO REMAIN - N.I.C.
8. EXISTING CHAIN LINK FENCE TO REMAIN.
9. EXISTING 7'-0" WIDE PER LEAF STEEL MAINTENANCE GATE TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.
10. DASHED LINE INDICATES EXISTING PV SHADE STRUCTURE PER DSA APPROVED A#04-121357.
11. TOW AWAY SIGNAGE. LINK TO DSA APPROVED A#04-125291.
12. EXISTING STANDARD PARKING TO REMAIN.
13. EXISTING ACCESSIBLE PARKING TO REMAIN PER DSA APPROVED A#04-112483 & A#04-121357. REFER TO ENLARGED PARKING PLAN 2/ A-102 .
14. EXISTING VAN ACCESSIBLE PARKING TO REMAIN PER DSA APPROVED A#04-112483 & A#04-121357. REFER TO ENLARGED PARKING PLAN 2/A-102 .
15. EXISTING PATH OF TRAVEL PER DSA APPROVED A#04-112483 & A#04-121357. REFER TO SITE ACCESSIBILITY NOTES.
16. EXISTING SHADE STRUCTURE TO REMAIN PER DSA APPROVED A#04-51157.
17. EXISTING ACCESSIBLE DROP OFF PER DSA APPROVED A#04-112483. REFER TO ENLARGED PARKING PLAN 2/A-102 .
18. EXISTING ACCESSIBLE BOYS RESTROOM PER DSA APROVED A#04-51157. REFER TO 2/A-503 FOR ACCESSIBLE UPGRADES.
19. EXISTING ACCESSIBLE GIRLS RESTROOM PER DSA APROVED A#04-51157. REFER TO 2/A-503 FOR ACCESSIBLE UPGRADES.
20. EXISTING ACCESSIBLE MENS RESTROOM PER DSA APROVED A#04-112483. REFER TO 1/A-502 FOR ACCESSIBLE UPGRADES.
21. EXISTING ACCESSIBLE MENS RESTROOM PER DSA APROVED A#04-112483. REFER TO 1/A-502 FOR ACCESSIBLE UPGRADES.
22. EXISTING ACCESSIBLE DRINKING FOUNTAIN. REFER TO ENLARGED PLAN 2/A-503 .
23. NEW 3'-0" WIDE STEEL PEDESTRIAN GATE. REFER TO ENLARGED PLAN ON SHEET A-103 AND GATE SCHEDULE A-901 .
24. NOT USED.
25. EXISTING PEDESTRIAN DOOR IN PATH OF TRAVEL. REFER TO GENERAL NOTE 6.
26. PROPOSED PATH OF TRAVEL. REFER TO SHEET A-103.
27. EXISTING ACCESSIBLE PEDESTRIAN RAMP TO REMAIN PER DSA APPROVED A#04-112483. REFER TO 2/A-102 .
28. RED PAINTED CURB. LINK TO DSA APPROVED A#04-125291.

GENERAL NOTES

1. ALL LANDSCAPE AREAS, PAVING,AND SURFACING DISTURBED BY THE WORK OF THIS CONTRACT SHALL BE REPAIRED AND/OR REPLACED BY THE CONTRACTOR TO ORIGINAL INDUSTRY STANDARD OF QUALITY, INCLUDING PURCHASING AND INSTALLING NEW PLANT MATERIAL WHERE REQUIRED.
2. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES, INCLUDING BUT NOT LIMITED TO ELECTRICAL, SIGNAL, PLUMBING, ETC. THE CONTRACTOR SHALL PROTECT AND MAINTAIN EXISTING UTILITIES DURING CONSTRUCTION AND/OR TRENCHING.
3. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PROTECT AND MAINTAIN ALL LANDSCAPING AND IRRIGATION THROUGHOUT THE DURATION OF CONSTRUCTION ACTIVITIES.
4. THE EXISTING IRRIGATION SYSTEMS SHALL BE MODIFIED AS REQUIRED TO ACCOMODATE THE PROPOSED CONSTRUCTION ACTIVITES. IT SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY TO PROVIDE AN IRRIGATION MODIFICATION PLAN FOR REVIEW AND APPROVAL BY THE DISTRICT PRIOR TO SYSTEM MODIFICATIONS. THIS PLAN SHALL INCLUDE THE LOCATION OF ALL SUBSURFACE IRRIGATION LINES, HEAD, VALVES, AND ASSOCIATED APPURTENANCES REQUIRED TO PROVIDE A COMPLETE IRRIGATION SYSTEM.
5. ALL IRRIGATION SYSTEMS SHALL STAY IN CONTINUED OPERATION AND ANY PROPOSED IRRIGATION SHUT DOWN SHALL BE APPROVED BY THE DISTRICT NO LATER THAN 72 HOURS PRIOR TO PLANNED SHUTDOWN.
6. DOORS IN PATH OF TRAVEL TO BE ADJUSTED FOR 5 LBS. MAXIMUM FORCE. DOOR CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM. PROTECT IN PLACE DURING CONSTRUCTION. ALL DOORS IN PATH OF TRAVEL MUST BE DEMONSTRATED TO COMPLY WITH CURRENT CODE SECTION CBC 11B-404 OR ALTERED TO COMPLY WITH CBC 11B-404.

SITE ACCESSIBILITY NOTES

1. DASHED LINE INDICATES ACCESSIBLE PATH OF TRAVEL WHICH SHALL BE A BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" 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 THE WALL AND ABOVE 27" AND LESS THAN 80" PER CBC 11B-202.4.
   SEE: (E) PER DSA APPROVED A#04-112483
   (E) PER DSA APPROVED A#04-121357
   (N) PROPOSED PATH OF TRAVEL
2. DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT:
   THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS 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 ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NONCOMPLIANT:
   1) HAVE BEEN IDENTIFIED AND,
   2) THE CORRECTIVE WORK NECCESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS.

   ANY NONCOMPLIANT ELEMENT, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE 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 NONCOMFORMING 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.
3. FOR ALL GRATINGS LOCATED IN THE SURFACE OF ANY PEDESTRIAN WAY IN THE PATH OF TRAVEL, THE GRID/OPENINGS IN THE GRATINGS SHALL BE LIMITED TO 1/2" MAXIMUM IN THE DIRECTION OF TRAFFIC FLOW.
4. GATES AT THE PATH OF TRAVEL SHALL COMPLY WITH EXIT DOOR REQUIREMENTS.
5. MANUAL CANE BOLTS, MANUALLY LOCKING HARDWARE, CHAINS, ETC. ARE NOT ALLOWED ON GATES WITH PANIC HARDWARE.

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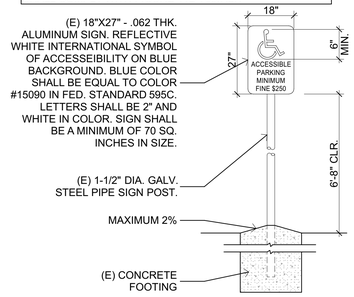
SHEET TITLE
OVERALL SITE PLAN

A-101

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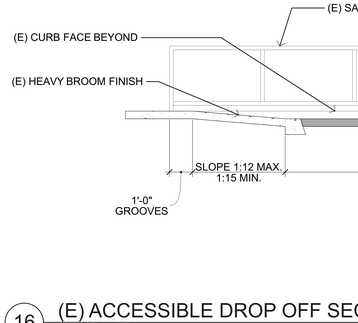
NOTE: THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL COMPLY WITH FIGURE 11B-703.7.2.1



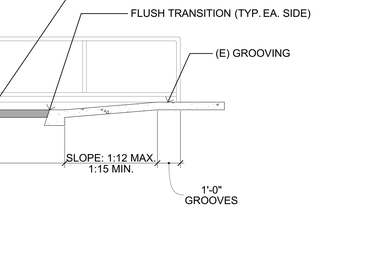
17 (E) ACS STALL SIGN
SCALE: 1" = 1'-0"

NOT USED

NOTE: THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL COMPLY WITH FIGURE 11B-703.7.2.1



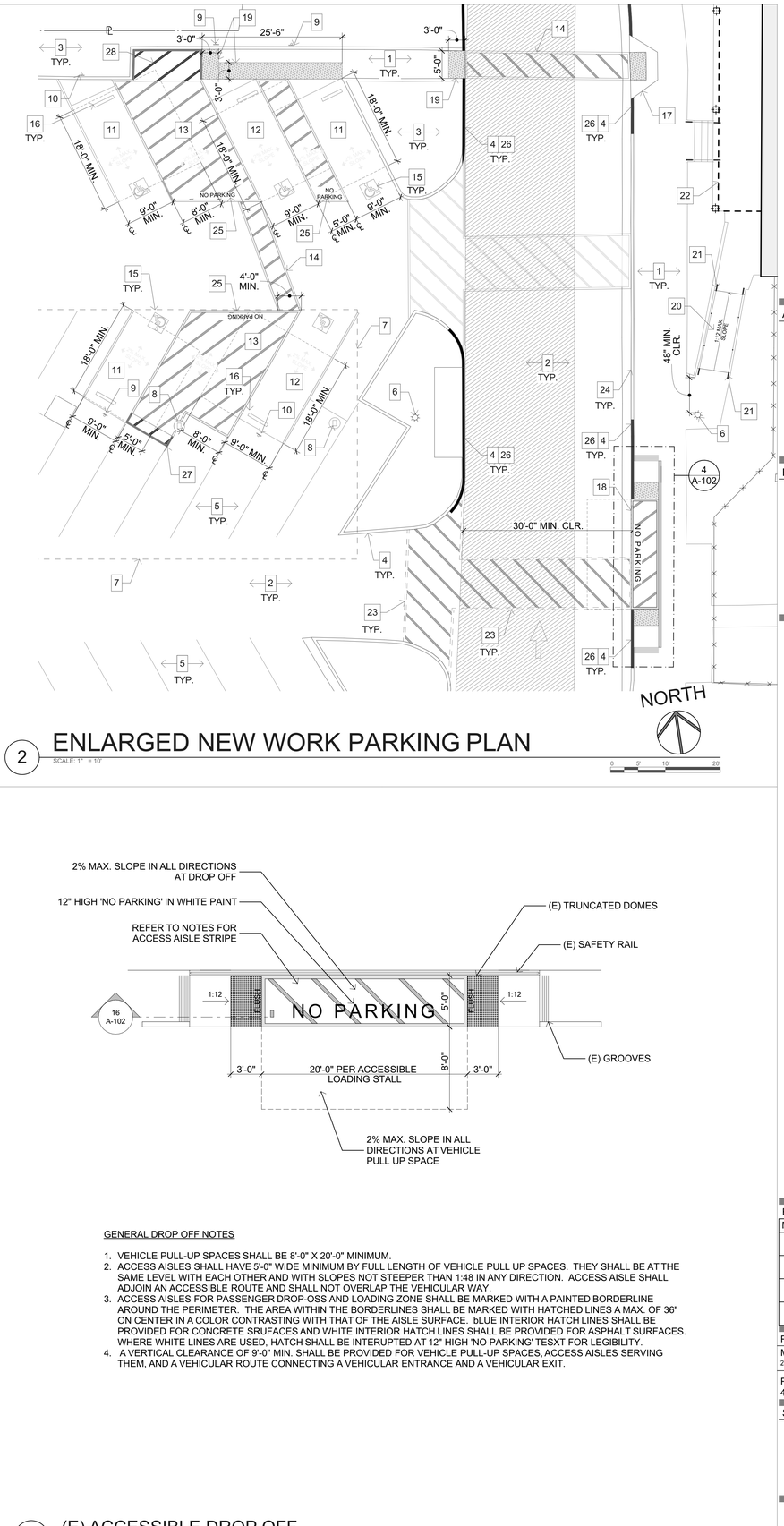
18 (N) ACS VAN STALL SIGN
SCALE: 1" = 1'-0"



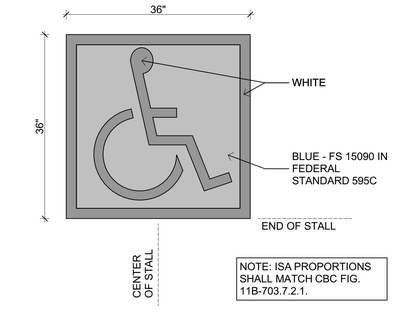
14 (E) ACS CURB RAMP
SCALE: 1/4" = 1'-0"

KEYNOTES

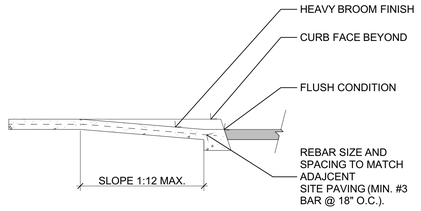
1. EXISTING CONCRETE PAVING TO REMAIN.
2. EXISTING AC PAVING TO REMAIN.
3. EXISTING LANDSCAPING TO REMAIN.
4. EXISTING CONCRETE CURB TO REMAIN.
5. EXISTING STANDARD PARKING STALL TO REMAIN.
6. EXISTING LIGHTPOLE TO REMAIN.
7. EXISTING OVERHEAD PV CANOPY TO REMAIN PER DSA APPROVED A#04-121357.
8. EXISTING STRUCTURAL COLUMNS FOR PV CANOPY TO REMAIN.
9. EXISTING ACCESSIBLE PARKING SIGNAGE TO REMAIN PER DSA APPROVED A#04112483 & A#04-121357. REFER TO DETAIL 17/A-102 .
10. EXISTING VAN ACCESSIBLE PARKING SIGNAGE TO REMAIN PER DSA APPROVED A#04112483 & A#04-121357. REFER TO DETAIL 18/A-102 .
11. EXISTING ACCESSIBLE PARKING STALL TO REMAIN PER DSA APPROVED A#04112483 & A#04-121357.
12. EXISTING VAN ACCESSIBLE PARKING STALL TO REMAIN PER DSA APPROVED A#04112483 & A#04-121357.
13. EXISTING ACCESSIBLE PARKING AISLE TO REMAIN PER DSA APPROVED A#04112483 & A#04-121357.
14. EXISTING ACCESSIBLE CROSSWALK TO REMAIN PER DSA APPROVED A#04112483 & A#04-121357. ACCESSIBLE CROSSWALK SHALL HAVE A 2% MAX. CROSS SLOPE AND 5% MAX. SLOPE IN THE DIRECTION OF TRAVEL.
15. EXISTING ACS PAVEMENT MARKING TO REMAIN PER DSA APPROVED A#04112483 & A#04-121357. REFER TO DETAIL 19/A-102 .
16. EXISTING CONCRETE WHEEL STOP TO REMAIN PER DSA APPROVED A#04112483 & A#04-121357.
17. EXISTING CURB RAMP TO REMAIN PER DSA APPROVED A#04-112483. REFER TO DETAIL 14 & 15/A-102 .
18. EXISTING ACCESSIBLE DROP OFF PER DSA APPROVED A#04-112483. REFER TO DETAIL 4 & 16/A-102 .
19. NEW TRUNCATED DOMES. REFER TO DETAIL 12/A-102 .
20. EXISTING ACCESSIBLE PEDETRIAN RAMP PER DSA APPROVED A#04-112483.
21. EXISTING 1-1/2" GALVANIZED PIPE HANDRAILING TO REMAIN. RAMP RAILING EXTENDS 15" BEYOND TOP AND BOTTOM OF RAMP.
22. EXISTING ROOF OVERHANG TO REMAIN.
23. EXISTING CROSS WALK STRIPING TO BE BLACKED OUT.
24. EXISTING YELLOW PAINTED CURB TO REMAIN.
25. EXISTING 12" HIGH LETTERING THAT READS "NO PARKING" TO REMAIN.
26. EXISTING RED PAINTED CURB TO REMAIN.
27. NEW ACCESSIBLE PARKING AISLE STRIPING AT AC PAVING. STRIPING TO BE 4" WIDE PAINTED WHITE DIAGONAL STRIPING AT 36" O.C. AND 4" BLUE BORDER. ACCESSIBLE AISLE SHALL HAVE A 2% MAX. SLOPE IN ALL DIRECTIONS.
28. NEW ACCESSIBLE PARKING AISLE STRIPING AT CONCRETE PAVING. STRIPING TO BE 4" WIDE PAINTED BLUE DIAGONAL STRIPING AT 36" O.C. AND 4" BLUE BORDER. ACCESSIBLE AISLE SHALL HAVE A 2% MAX. SLOPE IN ALL DIRECTIONS.



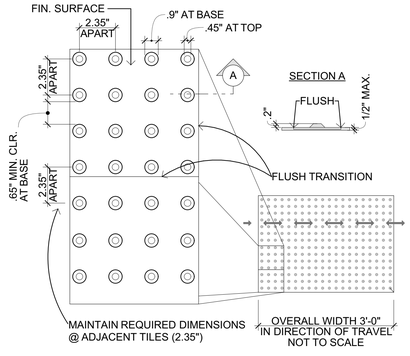
2 ENLARGED NEW WORK PARKING PLAN
SCALE: 1" = 10'



19 (E) ACS PAVEMENT MARKING
SCALE: 1" = 1'-0"



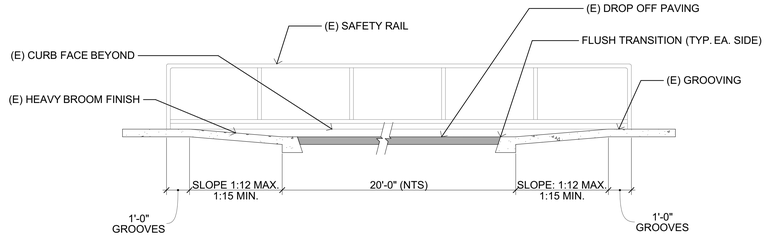
15 (E) ACS RAMP SECTION
SCALE: 1/2" = 1'-0"



NOTE:
- DETECTABLE WARNING SURFACES SHALL COMPLY WITH **CBC SECTION 11B-705.1.**
- DETECTABLE WARNING SURFACES SHALL BE YELLOW AND APPROXIMATE FEDERAL STANDARD **FS 33538 OF SAE AMS-STD-595A** PER **CBC SECTION 11B-705.1.1.2.3.**
- EXISTING DETECTABLE WARNING SURFACES, AND REPLACEMENT OF LESS THAN 20% OF TRUNCATED DOME MATERIAL AT A SINGLE CONTIGUOUS LOCATION, SHALL EITHER APPROXIMATE FEDERAL STANDARD **FS 33538 OF SAE AMS-STD-595A**, OR A COLOR PROVIDING A 70 PERCENT MINIMUM VISUAL CONTRAST WITH THAT OF ADJACENT WALKING SURFACES PER **CBC SECTION 11B-705.1.1.2.3.** THE MATERIAL USED TO PROVIDE VISUAL CONTRAST SHALL BE AN INTEGRAL PART OF THE SURFACE.
- DETECTABLE WARNING SURFACES SHALL DIFFER FROM ADJOINING SURFACES IN RESILIENCY OR SOUND-N-CANE CONTACE. SUCH CONSTRAINT SHALL NOT BE REQUIRED FOR DETECTABLE WARNING SURFACES AT CURB RAMPS, ISLANDS, OR CUT-THROUGH MEDIANS. **CBC SECTION 11B-705.1.1.4.**

GENERAL DROP OFF NOTES

1. VEHICLE PULL-UP SPACES SHALL BE 8'-0" X 20'-0" MINIMUM.
2. ACCESS AISLES SHALL HAVE 5'-0" WIDE MINIMUM BY FULL LENGTH OF VEHICLE PULL UP SPACES. THEY SHALL BE AT THE SAME LEVEL WITH EACH OTHER AND WITH SLOPES NOT STEEPER THAN 1:48 IN ANY DIRECTION. ACCESS AISLE SHALL ADJOIN AN ACCESSIBLE ROUTE AND SHALL NOT OVERLAP THE VEHICULAR WAY.
3. ACCESS AISLES FOR PASSENGER DROP-OSS AND LOADING ZONE SHALL BE MARKED WITH A PAINTED BORDERLINE AROUND THE PERIMETER. THE AREA WITHIN THE BORDERLINES SHALL BE MARKED WITH HATCHED LINES A MAX. OF 36" ON CENTER IN A COLOR CONTRASTING WITH THAT OF THE AISLE SURFACE. bLUE INTERIOR HATCH LINES SHALL BE PROVIDED FOR CONCRETE SRUFACES AND WHITE INTERIOR HATCH LINES SHALL BE PROVIDED FOR ASPHALT SURFACES. WHERE WHITE LINES ARE USED, HATCH SHALL BE INTERUPTED AT 12" HIGH 'NO PARKING' TESXT FOR LEGIBILITY.
4. A VERTICAL CLEARANCE OF 9'-0" MIN. SHALL BE PROVIDED FOR VEHICLE PULL-UP SPACES, ACCESS AISLES SERVING THEM, AND A VEHICULAR ROUTE CONNECTING A VEHICULAR ENTRANCE AND A VEHICULAR EXIT.



16 (E) ACCESSIBLE DROP OFF SECTION
SCALE: 3/8" = 1'-0"

12 (N) TRUNCATED DOMES
SCALE: 3" = 1'-0"

4 (E) ACCESSIBLE DROP OFF
SCALE: 3/16" = 1'-0"

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PAUL R. GALLEGOS
No. C24063
EXP. 01/27
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ENGINEER OF RECORD

LAKESIDE UNION SCHOOL DISTRICT

KITCHEN EXPANSION

LEMON CREST ELEMENTARY SCHOOL

12463 LEMON CREST DR.
LAKESIDE, CA 92040

LAKESIDE UNION SCHOOL DISTRICT
12335 WOODSIDE AVE LAKESIDE CA 92040

REVISIONS

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	4/14/2026	DSA V3 SUBMITTAL

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25-0 LUSD Lemon Crest Kitchen Expansion.pln

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4/9/2026

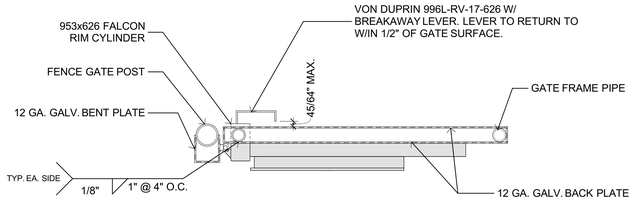
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ENLARGED PARKING PLAN

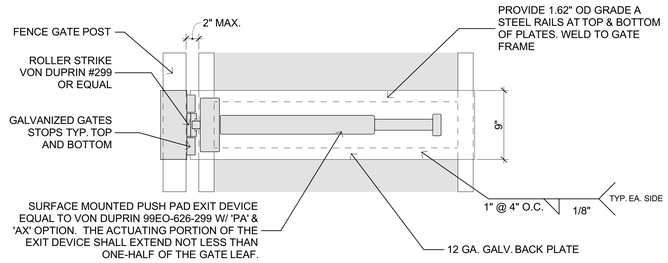
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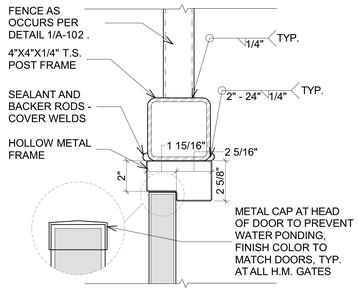
PLAN



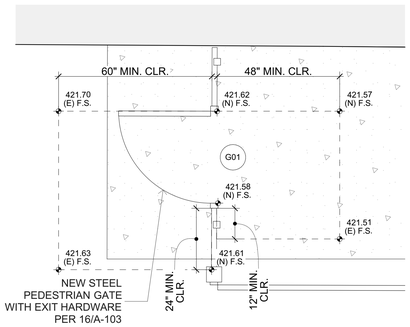
ELEVATION

NOTE
-ALL FINISHED TO BE 626 U.N.O.
-5LB. MAX. OPERATING PRESSURE FOR GATE OPERATION.
-ALL WELDS SHALL BE GROUND SMOOTH AND GALVANIZED. FIELD GALVANIZING SHALL BE APPROVED BY THE ARCHITECT OF RECORD PRIOR TO APPLICATION.

14 EXIT DEVICE
SCALE: 1 1/2"= 1'-0"



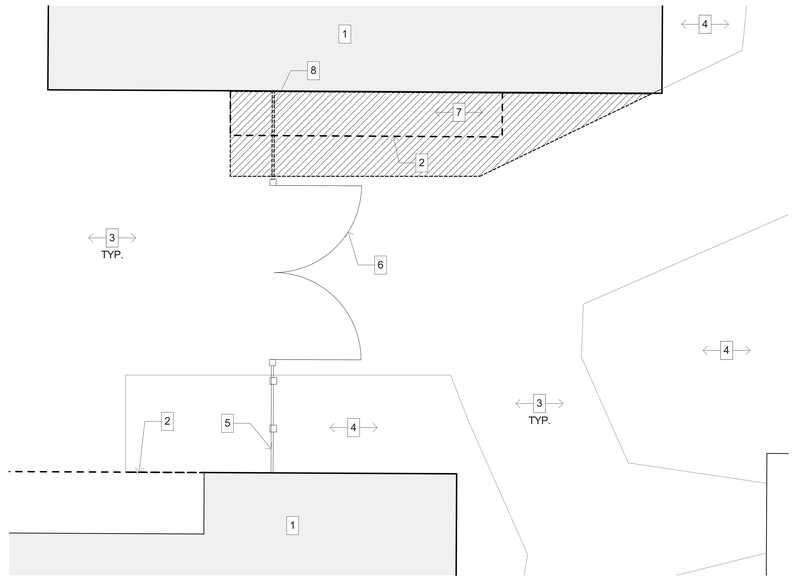
9 H.M. GATE DOOR JAMB/HEAD SIMILAR
SCALE: 3" = 1'-0"



10 ENLARGED GATE PLAN
SCALE: 1/2" = 1'-0"

KEYNOTES

1. EXISTING BUILDING TO REMAIN.
2. DASHED LINE INDICATES EXISTING ROOF OVERHANG TO REMAIN.
3. EXISTING CONCRETE PAVEMENT TO REMAIN.
4. EXISTING LANDSCAPING TO REMAIN.
5. EXISTING STEEL FENCING TO REMAIN.
6. EXISTING 7'-0" WIDE PER LEAF STEEL MAINTENANCE GATE TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.
7. EXISTING LANDSCAPING TO BE DEMOLISHED.
8. PORTION OF STEEL FENCING TO BE DEMOLISHED.



2 ENLARGED DEMOLITION SITE PLAN
SCALE: 1" = 5'

0 2' 5' 10'

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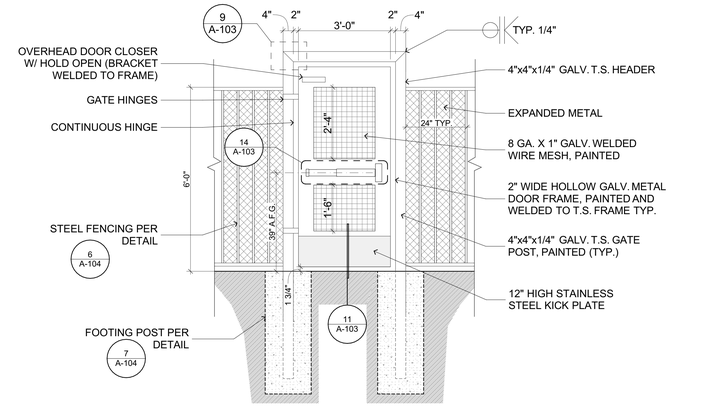
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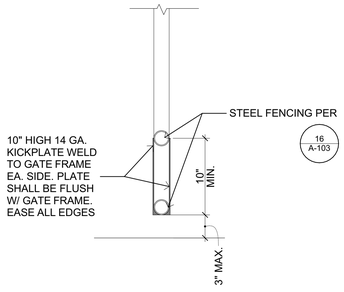
ENGINEER OF RECORD

LAKESIDE UNION SCHOOL DISTRICT



NOTE:
CONTRACTOR TO WELD ALL CONNECTIONS AND GRIND SMOOTH. PREP DOOR FOR CLOSER BY FULLY WELDING AROUND MTG. AREA.
ALL STEEL TO BE GALV. AND PRIMED & PAINTED PER SPECS.
FABRICATE GATE DOORS W/ 1" UNDERCUT MIN., 3" MAX.

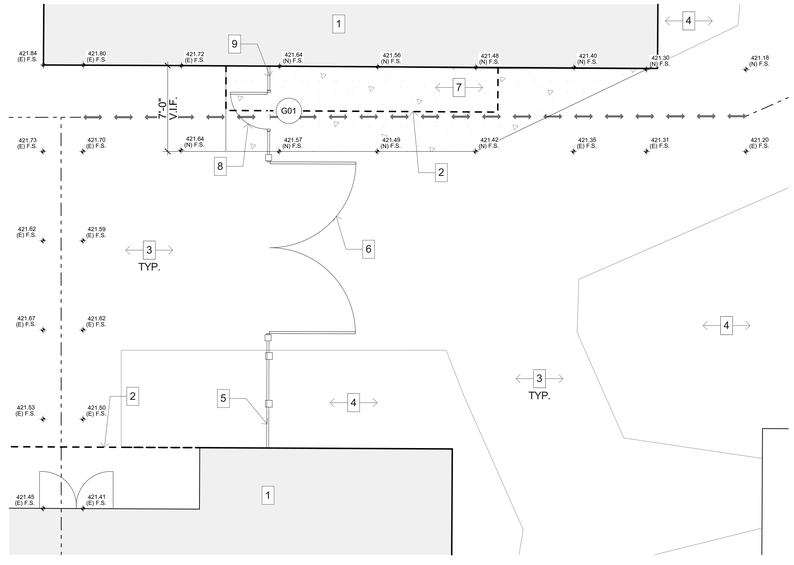
16 SINGLE PEDESTRIAN GATE
SCALE: 1/2" = 1'-0"



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

KEYNOTES

1. EXISTING BUILDING TO REMAIN.
2. DASHED LINE INDICATES EXISTING ROOF OVERHANG TO REMAIN.
3. EXISTING CONCRETE PAVEMENT TO REMAIN.
4. EXISTING LANDSCAPING TO REMAIN.
5. EXISTING 6'-0" HIGH STEEL FENCING TO REMAIN.
6. EXISTING 7'-0" WIDE PER LEAF STEEL MAINTENANCE GATE TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.
7. NEW CONCRETE PAVEMENT. REFER TO DETAILS 3, 2, 4,& 1/A-104 .
8. NEW STEEL 3'-0" X 6'-0" HIGH WIDE PEDESTRIAN GATE. REFER TO DETAIL 16/A-103, ENLARGED GATE PLAN 10/A-103 , AND GATE SCHEDULE A-901 .
9. NEW 6'-0" HIGH STEEL FENCING. REFER TO DETAIL 6/A-104 .



4 ENLARGED NEW WORK SITE PLAN
SCALE: 1" = 5'

0 2' 5' 10'

KITCHEN EXPANSION

LEMON CREST ELEMENTARY SCHOOL

12463 LEMON CREST DR.
LAKESIDE, CA 92040

LAKESIDE UNION SCHOOL DISTRICT
12335 WOODSIDE AVE LAKESIDE CA 92040

REVISIONS

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25-0 LUSD Lemon Crest Kitchen Expansion.pln

PLOT DATE:
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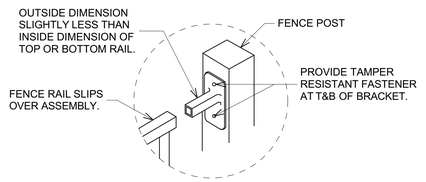
ENLARGED GATE PLAN & DETAILS

A-103

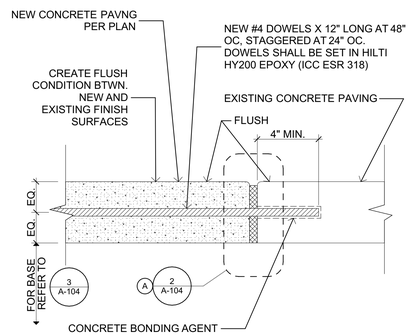
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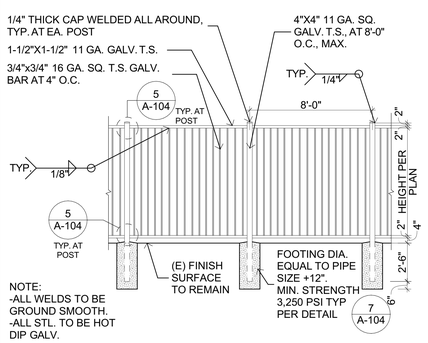
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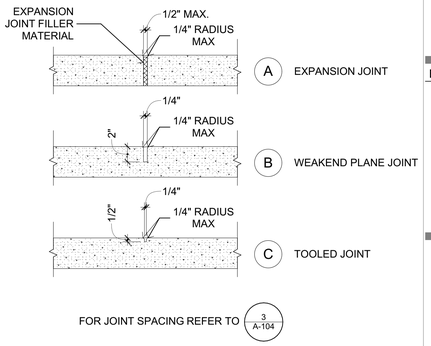
5 PANEL TO POST
SCALE: 6" = 1'-0"



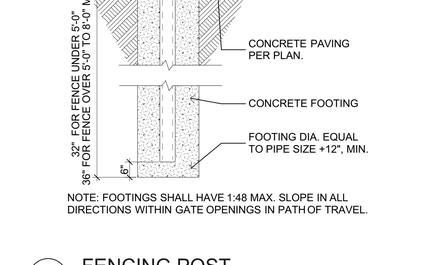
1 NEW CONCRETE TO EXISTING
SCALE: 3" = 1'-0"



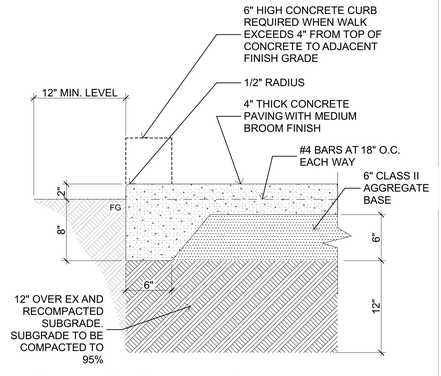
6 STEEL FENCING
SCALE: 1/4" = 1'-0"



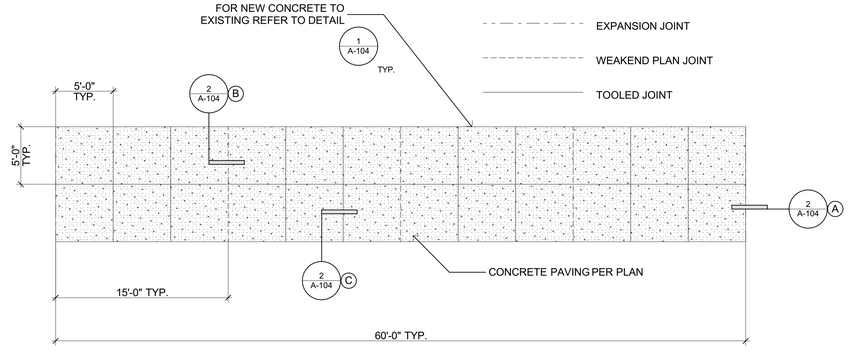
2 CONCRETE PAVING JOINTS
SCALE: 1 1/2" = 1'-0"



7 FENCING POST
SCALE: 1/2" = 1'-0"



3 EDGE OF PAVING
SCALE: 1 1/2" = 1'-0"



4 CONCRETE PAVING JOINTS PLAN
SCALE: 3/16" = 1'-0"

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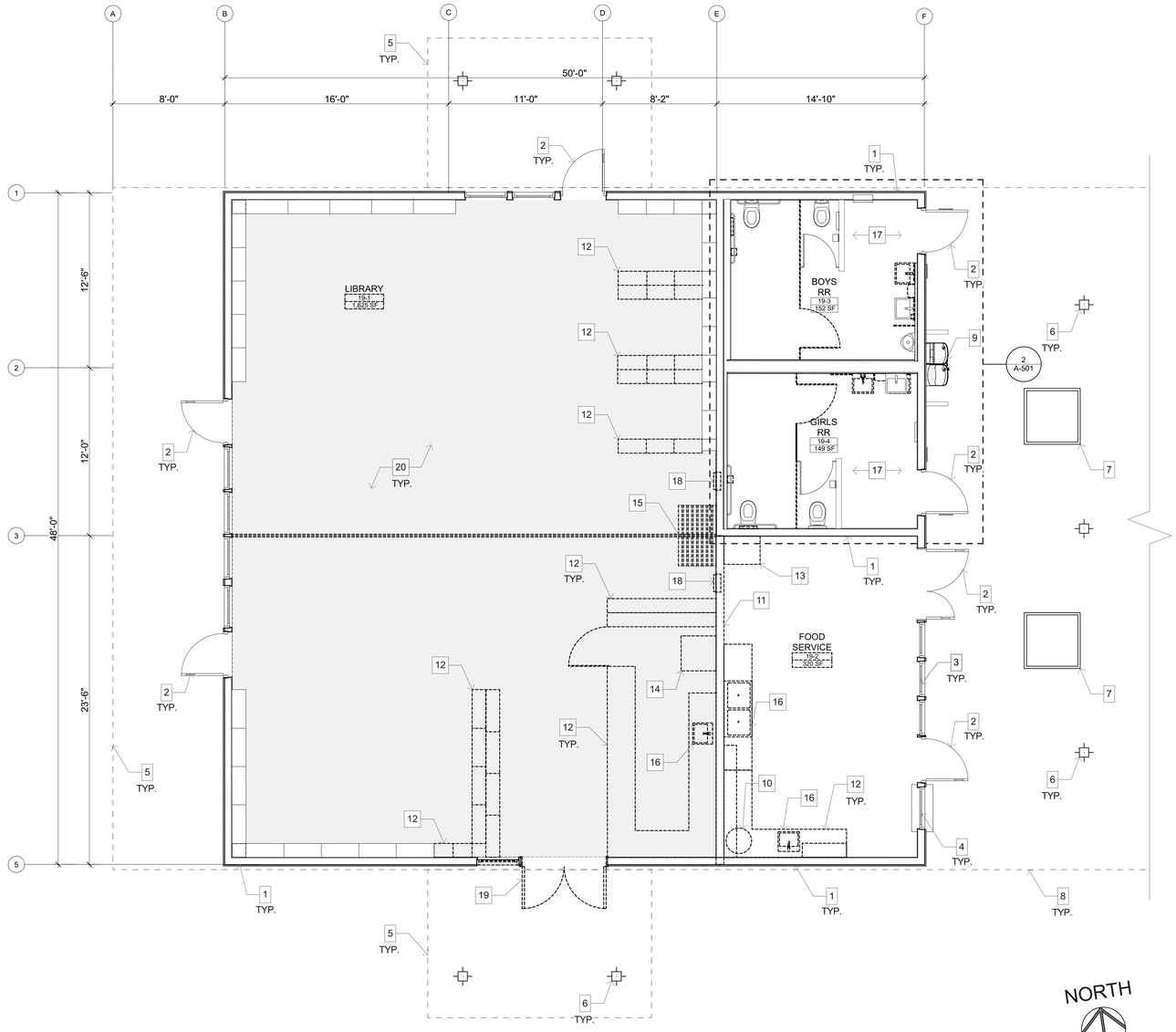
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SITE DETAILS

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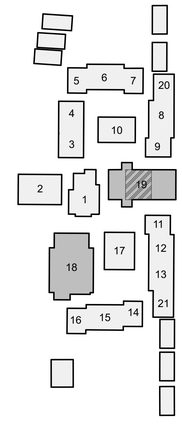
1 DEMOLITION FLOOR PLAN

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

KEYNOTES

1. EXISTING WALL TO REMAIN.
2. EXISTING DOOR TO REMAIN.
3. EXISTING WINDOW TO REMAIN.
4. EXISTING SERVING WINDOW TO REMAIN.
5. DASHED LINE INDICATES OVERHEAD ROOF LINE TO REMAIN.
6. EXISTING COLUMN TO REMAIN.
7. EXISTING SKYLIGHT TO REMAIN.
8. DASHED LINE INDICATES SHADE STRUCTURE TO REMAIN.
9. EXISTING DRINKING FOUNTAIN TO BE REMOVED AND RETURNED TO THE DISTRICT.
10. EXISTING WATER HEATER TO BE DEMOLISHED. REFER TO PLUMBING DRAWINGS.
11. EXISTING WALL TO BE DEMOLISHED.
12. EXISTING CASEWORK TO BE DEMOLISHED.
13. EXISTING KITCHEN EQUIPMENT TO BE REMOVED AND RETURNED TO THE DISTRICT.
14. EXISTING IDF CABINET TO BE MOVED. REFER TO ELECTRICAL DRAWINGS, 1/A-201, AND A-601 .
15. EXISTING WALL PARTITION TO BE DEMOLISHED. OVERHEAD TRACK TO BE REMOVED. REFER TO 1/A-701 .
16. EXISTING SINK TO BE DEMOLISHED. REFER TO PLUMBING DRAWINGS.
17. EXISTING BOY AND GIRLS RESTROOM. REFER TO ENLARGED RESTROOM PLAN A-501 FOR EXTENT OF DEMOLITION WORK.
18. EXISTING FIRE EXTINGUISHER CABINET AND SIGNAGE TO BE REMOVED AND RELOCATED. REFER TO 1/A-201 AND A-601 .
19. EXISTING STOREFRONT SYSTEM TO BE DEMOLISHED.
20. DEMOLISH AND REMOVE EXISTING CARPET FLOORING AND BASE.

KEY PLAN



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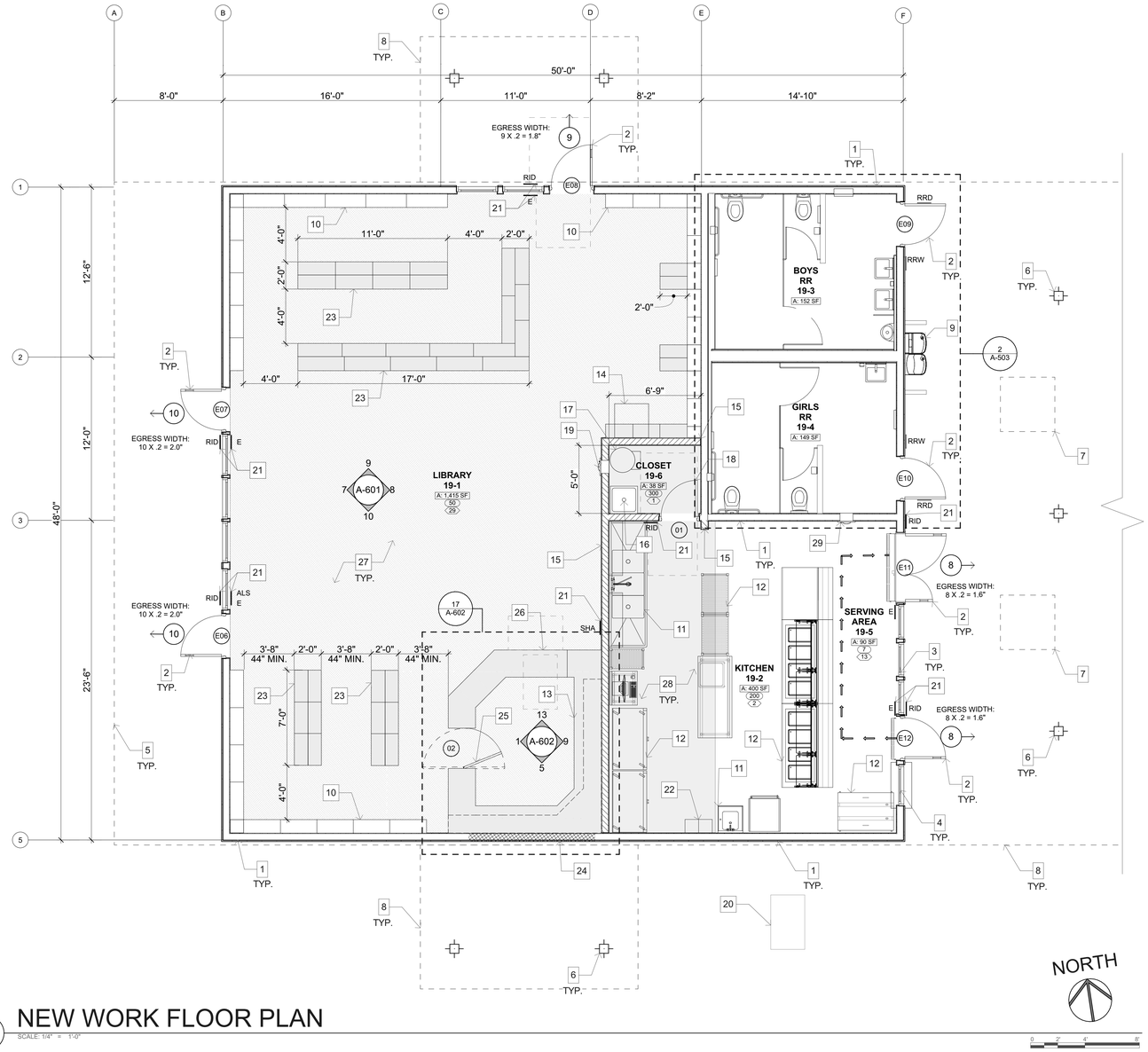
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DEMOLITION FLOOR PLAN

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1 NEW WORK FLOOR PLAN

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

OCCUPANT LOAD ANALYSIS

EXISTING OCCUPANT LOAD IN AREA OF WORK	
(E) LIBRARY:	1,625 S.F. / 50 O.L.F. = 33 OCC.
(E) KITCHEN :	320 S.F. / 200 O.L.F.= 2 OCC.
TOTAL (E) OCCUPANT LOAD:	35 OCC.
NEW OCCUPANT LOAD IN AREA OF WORK	
(N) LIBRARY:	1,415 S.F. / 50 O.L.F. = 29 OCC.
(N) KITCHEN:	400 S.F. / 200 O.L.F. = 2 OCC.
(N) SERVING AREA :	90 S.F. / 7 O.L.F.= 13 OCC.
(N) CLOSET :	38 S.F. / 300 O.L.F.= 1 OCC.
TOTAL (N) OCCUPANT LOAD:	45 OCC.
INCREASE OF OCCUPANT LOAD AT AREA OF SCOPE OF WORK 45 OCC.-35 OCC. = 10 OCC. INCREASE TOTAL	

EXITING LEGEND

→ → →	PATH OF EGRESS
1 →	SINGLE ROOM OCCUPANT LOAD AT DOOR
SF	SQUARE FOOTAGE OF ROOM
OLF	OLF OF ROOM (2022 CBC TABLE 1004.5)
OL	OCCUPANT LOAD OF ROOM

SIGNAGE LEGEND

SYMBOL	NAME	DETAIL
RID	TACTILE ROOM IDENTIFICATION SIGN	10/A-202
E	TACTILE EXIT SIGN	14/A-202
RRW	TACTILE RESTROOM WALL SIGN	11/A-504
RRD	TACTILE RESTROOM DOOR SIGN	12/A-504
ALS	TACTILE ASSISTIVE LISTENING SIGN	11/A-202
SHA	SHELF HEIGHT ASSISTANCE SIGN	2/A-601

WALL LEGEND

TYPES	SYMBOLS	DESCRIPTIONS	DETAIL NO.
1.		EXISTING EXTERIOR WALL TO REMAIN	N/A
2.		EXISTING INTERIOR WALL TO REMAIN	N/A
3.		INTERIOR NON-BRG. PARTITION: 2 X 6 WOOD STUDS AT 16" O.C. W/ 5/8" GYP. BD. EACH SIDE. FULL HEIGHT. REFER TO STRUCTURAL DWGS FOR TOP AND BOTTOM CONNECTION. FINISH PER ROOM FINISH SCHEDULE A-901.	2/A-202
4.		EXTERIOR PARTITION: REFER TO STRUCTURAL DWGS FOR TOP AND BOTTOM CONNECTION. FINISH PER ROOM FINISH SCHEDULE A-901.	17 & 18/A-202

FLOORING LEGEND

TYPES	SYMBOLS	DESCRIPTIONS	DETAIL NO.
1.		EXISTING QUARRY TILE TO REMAIN	20/A-202
2.		NEW QUARRY TILE PER SPECIFICATIONS AND FINISH SCHEDULE	20/A-202
3.		NEW CARPET FLOORING PER SPECIFICATIONS AND FINISH SCHEDULE	19 & 20/A-202

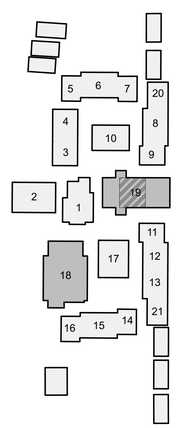
KEYNOTES

1. EXISTING WALL TO REMAIN.
2. EXISTING DOOR TO REMAIN.
3. EXISTING WINDOW TO REMAIN.
4. EXISTING SERVING WINDOW TO REMAIN.
5. DASHED LINE INDICATES OVERHEAD ROOF LINE TO REMAIN.
6. EXISTING STEEL COLUMN TO REMAIN.
7. EXISTING SKYLIGHT TO REMAIN.
8. DASHED LINE INDICATES SHADE STRUCTURE TO REMAIN.
9. NEW HI-LO ACCESSIBLE DRINKING FOUNTAIN. REFER TO ENLARGED PLAN 2/A-503 .
10. EXISTING SHELVING TO REMAIN.
11. NEW SINK. REFER TO FOODSERVICE AND PLUMBING DRAWINGS.
12. NEW KITCHEN EQUIPMENT. REFER TO FOODSERVICE DRAWINGS.
13. NEW CASEWORK. REFER TO INTERIOR ELEVATION ON SHEET A-601.
14. REINSTALL EXISTING IDF CABINET PER ELECTRICAL PLANS AND INTERIOR ELEVATIONS ON SHEET A-601
15. NEW INTERIOR NON- BEARING, NON-RATED WALL. REFER TO WALL LEGEND.
16. NEW MOP SINK.REFER TO PLUMBING AND FOODSERVICE DRAWINGS.
17. NEW WATER HEATER. REFER TO PLUMBING AND FOODSERVICE DRAWINGS.
18. NEW 34" WIDE DOOR. REFER TOO DOOR SCHEDULE ON A-901 .
19. NEW LOCATION FOR (E) FIRE EXTINGUISHER, RATED 2A:10B:C IN RECESSED CABINET AND SIGNAGE. REFER TO DETAIL 4/A-202 AND INTERIOR ELEVATION A-601 .
20. EXISTING GREASE INTERCEPTOR. REFER TO FOODSERVICE DRAWINGS.
21. NEW WALL SIGNAGE. REFER TO SIGNAGE LEGEND.
22. NEW ACCESSIBLE LOCKERS. REFER TO FOODSERVICE DRAWINGS.
23. NEW LIBRARY CABINETS WITH ADJUSTABLE SHELVES. REFER TO INTERIOR ELEVATIONS 8/A-601 .
24. NEW WALL INFILL. REFER TO WALL LEGEND, DETAIL 17/A-202 AND STRUCTURAL DRAWINGS.
25. NEW SWING GATE AT CASEWORK. DOOR SWING IN BOTH DIRECTIONS. REFER TO CASEWORK ELEVATIONS ON 17 & 14/A-602 .
26. NEW ACCESSIBLE WORK STATION. REFER TO REFER TO CASEWORK ELEVATIONS ON 17 & 16/A-602 .
27. NEW CARPET FLOORING. REFER TO SPECIFICATIONS AND FINISH SCHEDULE 1/A-901 .
28. NEW QUARRY TILE WITH COVE BASE. TOP OF NEW TILE FINISH SHALL BE FLUSH WITH THAT OF THE ADJACENT EXISTING TILE THROUGHOUT. REFER TO SPECIFICATIONS AND FINISH SCHEDULE 1/A-901.
29. NEW FIRE EXTINGUISHER, RATED 2A:10B:C IN RECESSED CABINET. SEE DETAIL 4/A-202 . LOCATED WITHIN 4'-0" OF ADJACENT EXIT DOOR.

GENERAL NOTES

1. FOR CONCRETE CURB REQUIREMENTS AND LOCATION REFER TO STRUCTURAL DRAWINGS. IN THE ABSENCE OF STRUCTURAL DRAWINGS, CONCRETE CURBS ARE REQUIRED AT ALL OF THE FOLLOWING LOCATIONS:
   -EXTERIOR WALLS
   -RESTROOM WALLS
   -KITCHEN WALLS
   -UTILITY SPACES, SUCH AS CUSTODIAL WALLS, AND SIMILAR SPACES
2. REFER TO STRUCTURAL DRAWINGS FOR SPECIFIC STUD WALL FRAMING MEMBER SIZES, SPACING, AND STUD ANCHORAGE / ATTACHMENT AT BOTTOM AND TOP OF WALLS.
3. FIRE PARTITIONS SHALL BE PERMANENTLY IDENTIFIED WITH STENCILING. SUCH IDENTIFICATION SHALL:
   - BE LOCATED IN ACCESSIBLE CONCEALED FLOOR- CEILING OR ATTIC SPACES.
   - BE LOCATED WITHIN 15 FEET OF THE END OF EACH WALL AND AT INERVALS NOT EXCEEDING 30 FEET MEASURED HORIZONTALLY ALONG THE PARTITION; AND INCLUDING LETTERING NOT LESS THAN 3" IN HEIGHT WITH A MINIMUM 3/8" STROKE IN A CONTRACTING COLOR INCORPORATING THE FOLLOWING WORDING "FIRE PARTITION - PROTECT ALL OPENINGS".

KEY PLAN



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DIV. OF THE STATE ARCHITECT
APP: 04-124851 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/14/2026

ALPHASTUDIO DESIGN GROUP

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ARCHITECT OF RECORD

LICENSED ARCHITECT
PAUL R. GALLEGOS
No. C24063
EXP. 01/27
STATE OF CALIFORNIA

ENGINEER OF RECORD

LAKESIDE
UNION SCHOOL DISTRICT

KITCHEN EXPANSION

LEMON CREST ELEMENTARY SCHOOL

12463 LEMON CREST DR.
LAKESIDE, CA 92040

LAKESIDE UNION SCHOOL DISTRICT
12335 WOODSIDE AVE LAKESIDE CA 92040

REVISIONS

MARK	DATE	DESCRIPTION
	4/14/2026	DSA V3 SUBMITTAL

PROJECT NO: #PIn

MODEL FILE:
25-0 LUSD Lemon Crest Kitchen Expansion.pln

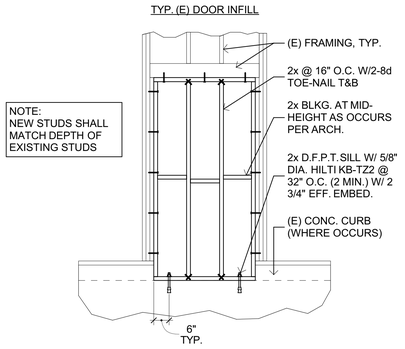
PLOT DATE:
4/9/2026

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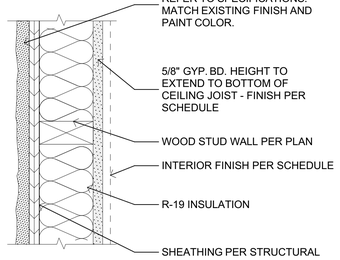
NEW WORK FLOOR PLAN

A-201

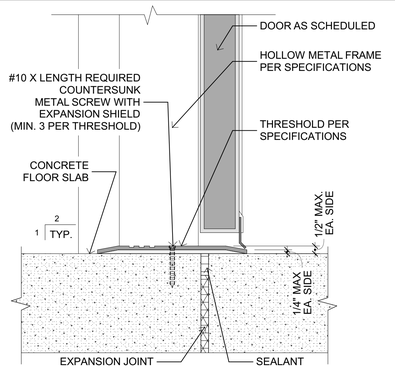
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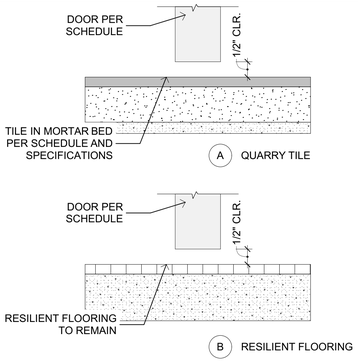
17 TYP. (E) WALL INFILL
SCALE: 1/2" = 1'-0"



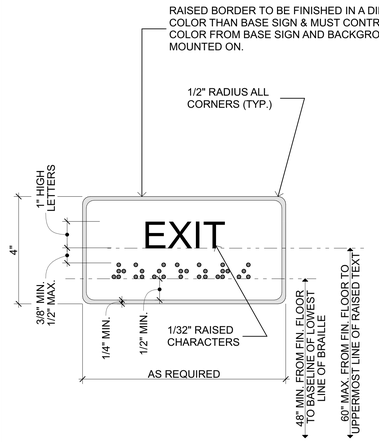
18 TYP. EXTERIOR NON-RATED WALL
SCALE: 3" = 1'-0"



19 TYP. EXTERIOR DOOR THRESHOLD
SCALE: 3" = 1'-0"

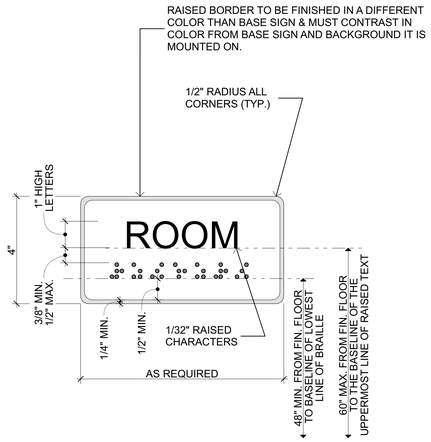


20 TYP. INT. DOOR THRESHOLD
SCALE: 6" = 1'-0"



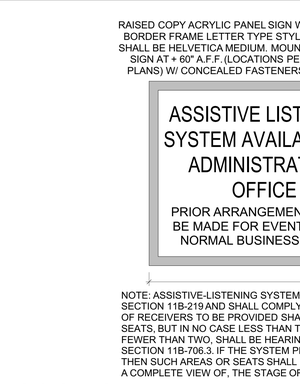
NOTES:
1. LETTER TYPE STYLE TO BE SANS SERIF PER SPECS.
2. ALLOW UP TO 16 CHARACTERS FOR SIGN.
3. PROVIDE DIE RAISED ALUMINUM PANEL SIGNS WITH RAISED BORDERS AT EXTERIOR LOCATIONS.
4. PROVIDE RAISED ACRYLIC PANEL SIGNS WITH BORDER FRAMES AT INTERIOR LOCATIONS.
5. ALL FASTNERS SHALL BE CONCEALED.
6. COLOR TO BE SELECTED BY ARCHITECT.
7. CONTRACTED CALIF. GRADE 2 BRAILLE SHALL BE USED WHEREVER SHOWN ON DRAWINGS. DOTS SHALL BE USED WHEREVER SHOWN ON DRAWINGS. DOTS SHALL BE 1/10" O.C. IN EACH CELL W/ 2/10" SPACE BETWEEN CELLS. DOTS SHALL BE RAISED 1/40" ABOVE BACKGROUND. REFER TO DETAIL.
8. ALL BRAILLE SHALL BE CAPITALIZED AND INDICATED AS SUCH.
9. WHERE INDICATED ON PLAN, TEXT SHALL READ 'EXIT ROUTE'.

14 EXIT SIGN
SCALE: 3" = 1'-0"



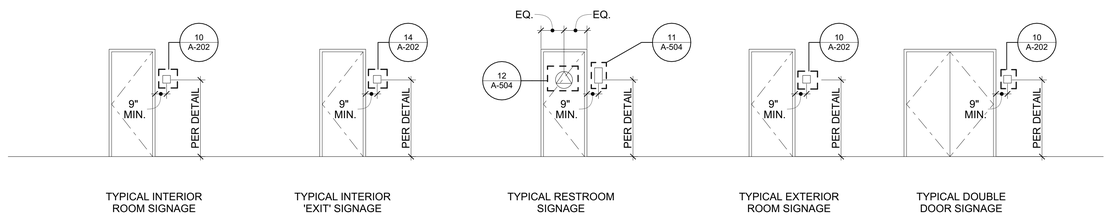
NOTES:
1. COORDINATE AND SCHEDULE SIGN VERBIAGE WITH ARCHITECT AND DISTRICT.
2. LETTER TYPE STYLE TO BE SANS SERIF PER SPECS.
3. ALLOW UP TO 16 CHARACTERS FOR SIGN.
4. PROVIDE DIE RAISED ALUMINUM PANEL SIGNS WITH RAISED BORDERS AT EXTERIOR LOCATIONS.
5. PROVIDE RAISED ACRYLIC PANEL SIGNS WITH BORDER FRAMES AT INTERIOR LOCATIONS.
6. ALL FASTNERS SHALL BE CONCEALED.
7. COLOR TO BE SELECTED BY ARCHITECT.
8. CONTRACTED CALIF. GRADE 2 BRAILLE SHALL BE USED WHEREVER SHOWN ON DRAWINGS. DOTS SHALL BE USED WHEREVER SHOWN ON DRAWINGS. DOTS SHALL BE 1/10" O.C. IN EACH CELL W/ 2/10" SPACE BETWEEN CELLS. DOTS SHALL BE RAISED 1/40" ABOVE BACKGROUND. REFER TO DETAIL.
9. ALL BRAILLE SHALL BE CAPITALIZED AND INDICATED AS SUCH.

10 ROOM NAME SIGNAGE
SCALE: 3" = 1'-0"

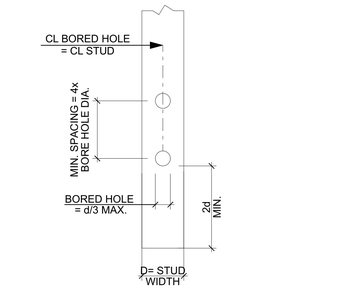


NOTE: ASSISTIVE-LISTENING SYSTEMS SHALL BE PROVIDED IN ACCORDANCE WITH CBC SECTION 11B-219 AND SHALL COMPLY WITH CBC SECTION 11B-706. THE MINIMUM NUMBER OF RECEIVERS TO BE PROVIDED SHALL BE EQUAL TO 4% OF THE TOTAL NUMBER OF SEATS, BUT IN NO CASE LESS THAN TWO. 25% MIN. OF RECEIVERS PROVIDED, BUT NO FEWER THAN TWO, SHALL BE HEARING-AID COMPATIBLE.IN ACCORDANCE WITH CBC SECTION 11B-706.3. IF THE SYSTEM PROVIDED IS LIMITED TO SPECIFIC AREAS OR SEATS, THEN SUCH AREAS OR SEATS SHALL BE WITHIN A 50'-0" VIEWING DISTANCE OF, AND HAVE A COMPLETE VIEW OF, THE STAGE OR PLAYING AREA PER CBC SECTION 11B-219.4

11 ALS SIGNAGE
SCALE: 6" = 1'-0"

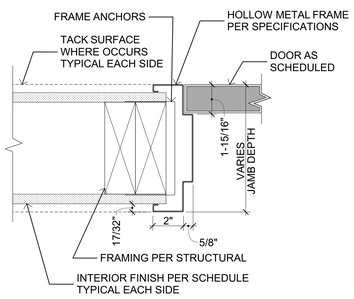


8 SIGNAGE ELEVATIONS
SCALE: 1/4" = 1'-0"

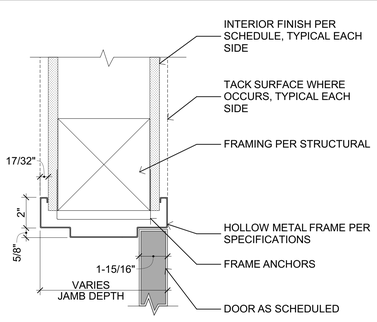


NOTE:
1. LARGER HOLES MUST BE APPROVED BY THE STRUCTURAL ENGINEER

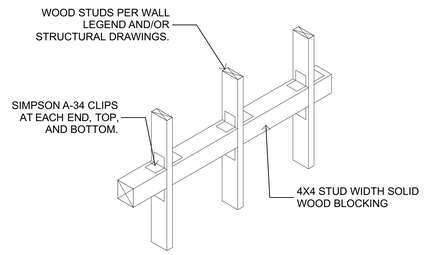
5 TYP. BORING OF WOOD STUDS
SCALE: 6" = 1'-0"



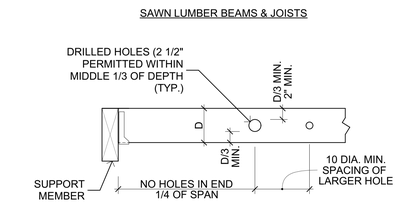
6 TYPICAL INTERIOR DOOR JAMB
SCALE: 3" = 1'-0"



7 TYPICAL INTERIOR DOOR HEAD
SCALE: 3" = 1'-0"

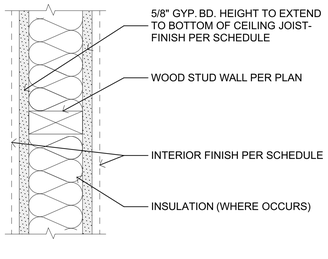


1 TYPICAL WOOD BLOCKING
SCALE: 1" = 1'-0"

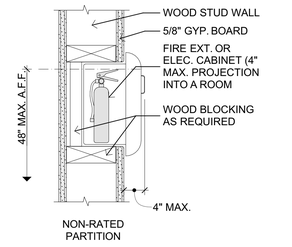


NOTE:
1. JOISTS MAY ONLY BE NOTCHED WHEN DETAILED & APPROVED BY THE ENGINEER PRIOR TO NOTCHING

3 TYP. BORING OF SAWN LUMBER
SCALE: 6" = 1'-0"



2 INT. NON-BEARING WOOD WALL
SCALE: 3" = 1'-0"



NOTES:
1. AT 1-HR FIRE WALLS, LINE ALL SIDES AND BACK OF OPENING WITH 5/8" TYPE 'X' GYP. BOARD TYP.
2. INSTALLER TO CAULK AROUND THE PERIMETER OF THE CABINET AS REQUIRED.

4 FIRE EXTINGUISHER CABINET
SCALE: 3" = 1'-0"

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APP: 04-124851 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 04/14/2026

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LICENSED ARCHITECT
PAUL R. GALLEGOS
No. C24063
EXP. 01/27
STATE OF CALIFORNIA

ENGINEER OF RECORD

LAKESIDE UNION SCHOOL DISTRICT

KITCHEN EXPANSION
LEMON CREST ELEMENTARY SCHOOL

12463 LEMON CREST DR.
LAKESIDE, CA 92040

LAKESIDE UNION SCHOOL DISTRICT
12335 WOODSIDE AVE LAKESIDE CA 92040

REVISIONS

MARK	DATE	DESCRIPTION
	4/14/2026	DSA V3 SUBMITTAL

PROJECT NO: #Pln
MODEL FILE: 25-0 LUSD Lemon Crest Kitchen Expansion.pln
PLOT DATE: 4/9/2026

SHEET TITLE

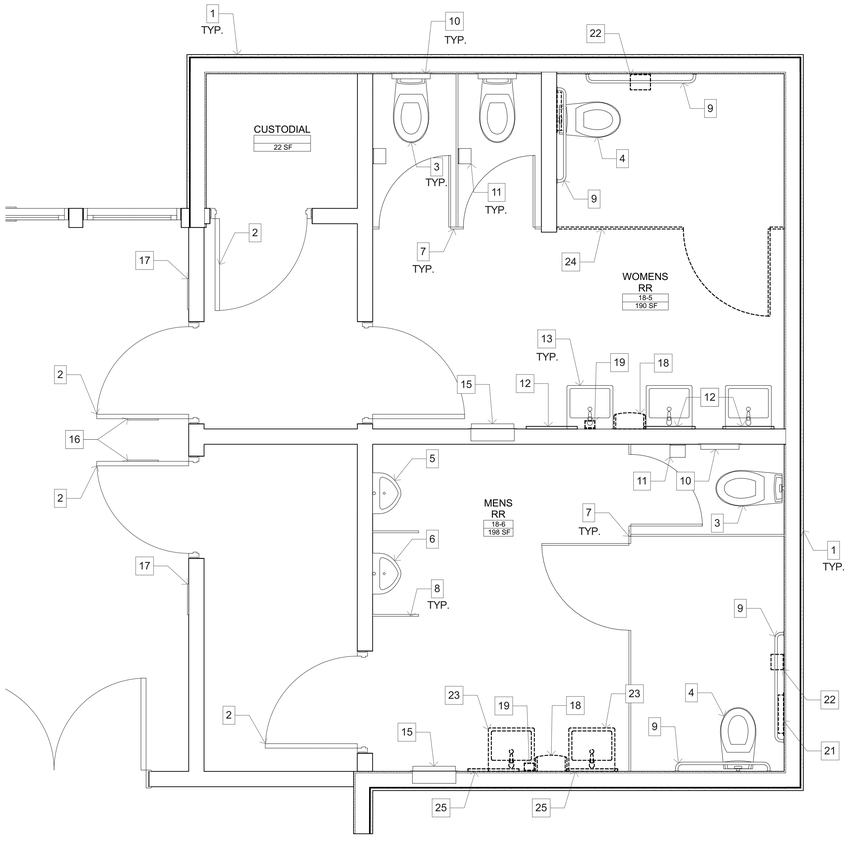
FLOOR PLAN DETAILS

A-202

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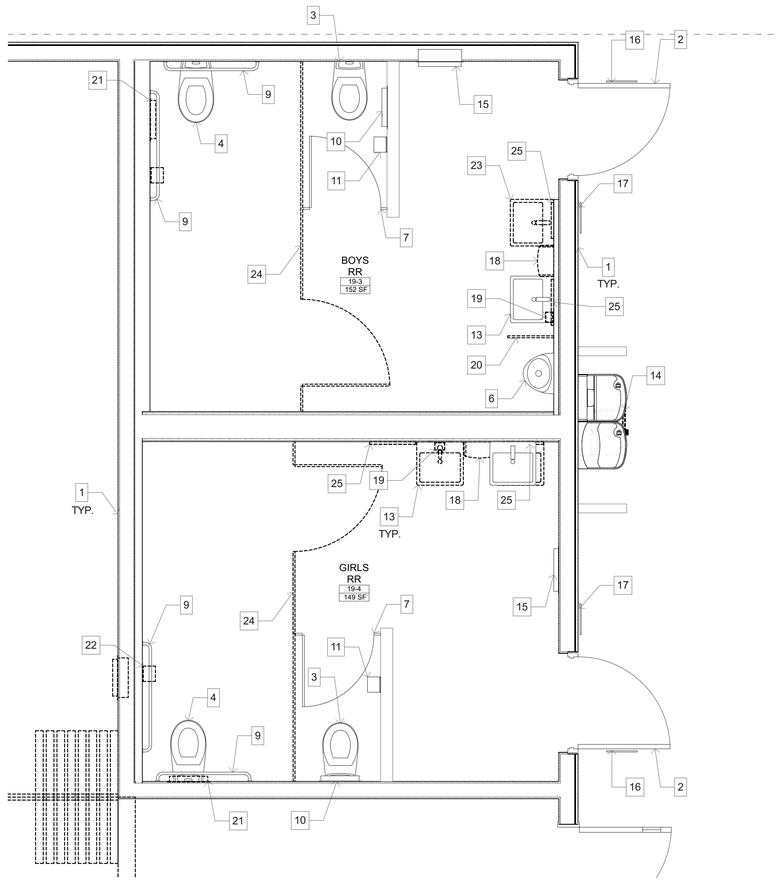
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1 ENLARGED DEMO RESTROOM PLAN - STAFF

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



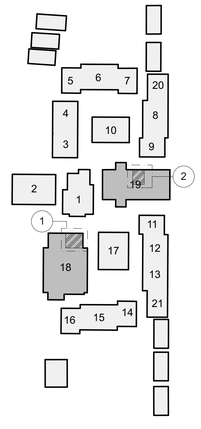
2 ENLARGED DEMO RESTROOM PLAN- GIRLS & BOYS

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

KEYNOTES

1. EXISTING WALL TO REMAIN.
2. EXISTING DOOR TO REMAIN.
3. EXISTING FLOOR MOUNTED WATER CLOSET TO REMAIN.
4. EXISTING ACCESSIBLE FLOOR MOUNTED WATER CLOSET TO REMAIN.
5. EXISTING URINAL TO REMAIN.
6. EXISTING ACCESSIBLE URINAL TO REMAIN.
7. EXISTING TOILET PARTITION TO REMAIN.
8. EXISTING URINAL PARTITION TO REMAIN.
9. EXISTING 1-1/2" DIA. STEEL GRAB BAR TO REMAIN.
10. EXISTING TOILET SEAT DISPENSER TO REMAIN.
11. EXISTING TOILET PAPER DISPENSER TO REMAIN.
12. EXISTING SURFACE MOUNTED MIRROR TO REMAIN.
13. EXISTING LAVATORYTO REMAIN.
14. EXISTING DRINKING FOUNTAIN TO REMAIN.
15. EXISTING RECESSED TRASH RECEPTICLE TO REMAIN.
16. EXISTING DOOR SIGNAGE TO REMAIN.
17. EXISTING WALL SIGNAGE TO REMAIN.
18. EXISTING PAPER TOWEL DISPENSER TO BE REMOVED AND RETURNED TO DISTRICT.
19. EXISTING SOAP DISPENSER TO BE REMOVED AND RELOCATED. REFER TO SHEET A-503 .
20. EXISTING URINAL PARTITION TO BE REMOVED AND RELOCATED. REFER TO SHEET A-503 .
21. EXISTING TOILET SEAT DISPENSER TO BE REMOVED AND RELOCATED. REFER TO SHEET A-503 .
22. EXISTING TOILET PAPER DISPENSER TO BE REMOVED AND RETURNED TO THE DISTRICT. REFER TO SHEET A-503 .
23. EXISTING LAVATORYTO BE REMOVED AND RELOCATED. REFER TO SHEET A-503 .
24. EXISTING STALL PARTITION TO BE REMOVED AND RELOCATED. REFER TO SHEET A-503 .
25. EXISTING SURFACE MOUNTED MIRROR TO BE REMOVED AND RELOCATED. REFER TO SHEET A-503 .

KEY PLAN



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APP: 04-124851 INC:
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REVISIONS

MARK	DATE	DESCRIPTION
	4/14/2026	DSA V3 SUBMITTAL

PROJECT NO: #Pln

MODEL FILE:
25-0 LUSD Lemon Crest Kitchen Expansion.pln

PLOT DATE:
4/9/2026

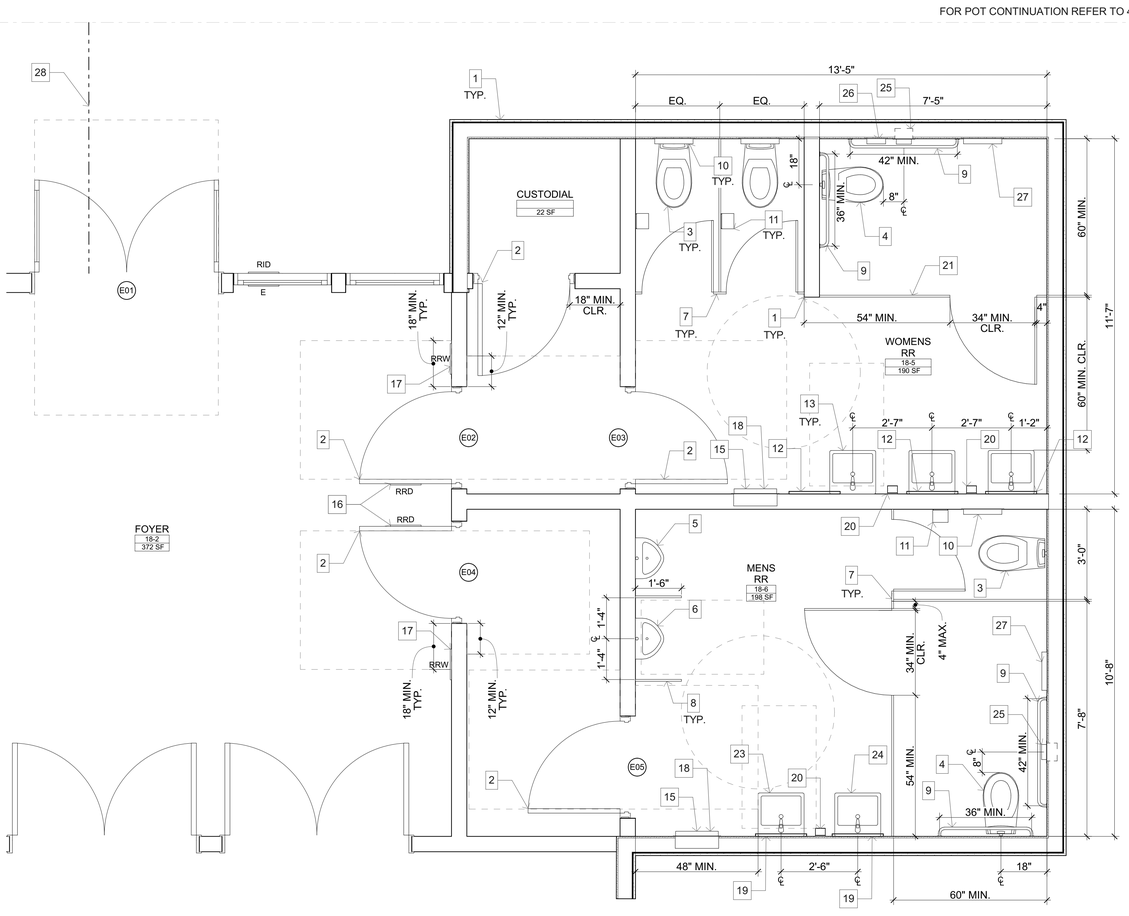
SHEET TITLE

ENLARGED DEMOLITION RESTROOM PLANS

A-501

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1 ENLARGED NEW WORK RESTROOM PLAN - STAFF

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

BUILDING 18
AGE GROUP: ADULT
EXISTING RESTROOM PER DSA APPROVED A#04-112483

SIGNAGE LEGEND

SYMBOL	NAME	DETAIL
RID	TACTILE ROOM IDENTIFICATION SIGN	10/A-202
E	TACTILE EXIT SIGN	14/A-202
RRW	TACTILE RESTROOM WALL SIGN	11/A-504
RRD	TACTILE RESTROOM DOOR SIGN	12/A-504

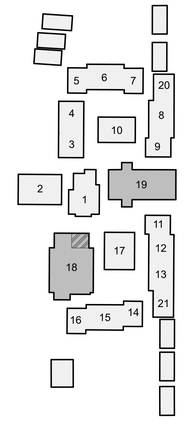
KEYNOTES

1. EXISTING WALL TO REMAIN.
2. EXISTING DOOR TO REMAIN. REFER TO DOOR SCHEDULE A-901 .
3. EXISTING FLOOR MOUNTED WATER CLOSET TO REMAIN.
4. EXISTING ACCESSIBLE FLOOR MOUNTED WATER CLOSET TO REMAIN. REFER TO DETAILS 2 & 6/A-504 .
5. EXISTING URINAL TO REMAIN.
6. EXISTING ACCESSIBLE URINAL TO REMAIN. REFER TO DETAIL 7 & 6/A-504 .
7. EXISTING TOILET PARTITION TO REMAIN.
8. EXISTING URINAL PARTITION TO REMAIN.
9. EXISTING 1-1/2" DIA. STEEL GRAB BAR TO REMAIN. REFER TO DETAILS 2 & 6/A-504 .
10. EXISTING TOILET SEAT DISPENSER TO REMAIN. REFER TO DETAIL 9/A-504 FOR MOUNTING HEIGHTS.
11. EXISTING TOILET PAPER DISPENSER TO REMAIN. REFER TO DETAIL 9/A-504 FOR MOUNTING HEIGHTS.
12. EXISTING SURFACE MOUNTED MIRROR TO REMAIN. REFER TO DETAIL 9/A-504 FOR MOUNTING HEIGHTS.
13. EXISTING LAVATORY TO REMAIN.
14. NOT USED.
15. EXISTING RECESSED TRASH RECEPTICLE TO REMAIN.
16. EXISTING DOOR SYMBOL TO REMAIN. REFER TO DETAIL 12/A-504 .
17. EXISTING WALL SIGNAGE TO REMAIN. REFER TO DETAIL 11/A-504 .
18. NEW SURFACE MOUNTED PAPER TOWEL DISPENSER WITH 4" MAX. PROJECTION. REFER TO DETAIL9/A-504 FOR MOUNTING HEIGHTS.
19. NEW LOCATION FOR SURFACE MOUNTED MIRROR. REFER TO DETAIL 9/A-504 FOR MOUNTING HEIGHTS. PATCH AND REPAIR TILE AND ADJACENT SURFACES AS NEEDED.
20. NEW LOCATION FOR SURFACE MOUNTED SOAP DISPENSER. REFER TO DETAIL 4 & 9/A-504 FOR MOUNTING HEIGHTS. PATCH AND REPAIR TILE AND ADJACENT SURFACES AS NEEDED.
21. NEW LOCATION FOR FLOOR MOUNTED STALL PARTITION. PATCH AND REPAIR TILE AND ADJACENT SURFACES AS NEEDED.
22. NOT USED.
23. NEW LOCATION FOR ACCESSIBLE LAVATORY.REFER TO DETAIL 4/A-504 . PATCH AND REPAIR WALL MOUNTED TILE AS NEEDED.
24. NEW LOCATION FOR WALL MOUNTED LAVATORY.PATCH AND REPAIR TILE AND ADJACENT SURFACES AS NEEDED.
25. NEW SEMI-RECESSED TOILET PAPER DISPENSER. REFER TO DETAIL 6 & 9/A-504 FOR MOUNTING HEIGHTS. PATCH AND REPAIR TILE AND ADJACENT SURFACES AS NEEDED.
26. NEW FEMININE HYGEINE DISPOSAL. REFER TO DETAIL 6 & 9/A-504 FOR MOUNTING HEIGHTS.
27. NEW LOCATION FOR TOILET SEAT DISPENSER. REFER TO DETAIL 9/A-504 FOR MOUNTING HEIGHTS.
28. EXISTING PATH OF TRAVEL PER DSA APPROVED A#04-112483. REFER TO 4/A-103 .

GENERAL NOTES

1. ALL DIMENSIONS SHALL BE TO FACE OF FINISH U.O.N.
2. AREAS WITH FLOOR DRAINS AND SINKS SHALL HAVE SLOPES NOT STEEPER THAN 1:48 IN ALL DIRECTIONS.
3. FLOOR SINKS OR DRAINS OR TROUGHS EXPOSED TO P.O.T. OR TO PEDESTRIAN CIRCULATION PATHS SHALL HAVE 1/4" MAX. GRATE OPENINGS IN ALL DIRECTIONS PER CBC SECTION 11B-302.3.
4. OPERABLE PARTS OF ALL THE ACCESSIBLE ELEMENTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS MAX PER CBC SECTION 11B-2.5 AND 11B-309.4.

KEY PLAN



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124851 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/14/2026

ALPHASTUDIO DESIGN GROUP
6152 INNOVATION WAY
CARLSBAD, 92009
760-431-2444
www.alphastudio-design.com

ARCHITECT OF RECORD

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LAKESIDE
UNION SCHOOL DISTRICT

KITCHEN EXPANSION

LEMON CREST ELEMENTARY SCHOOL
12463 LEMON CREST DR.
LAKESIDE, CA 92040

LAKESIDE UNION SCHOOL DISTRICT
12335 WOODSIDE AVE LAKESIDE CA 92040

REVISIONS

MARK	DATE	DESCRIPTION
	4/14/2026	DSA V3 SUBMITTAL

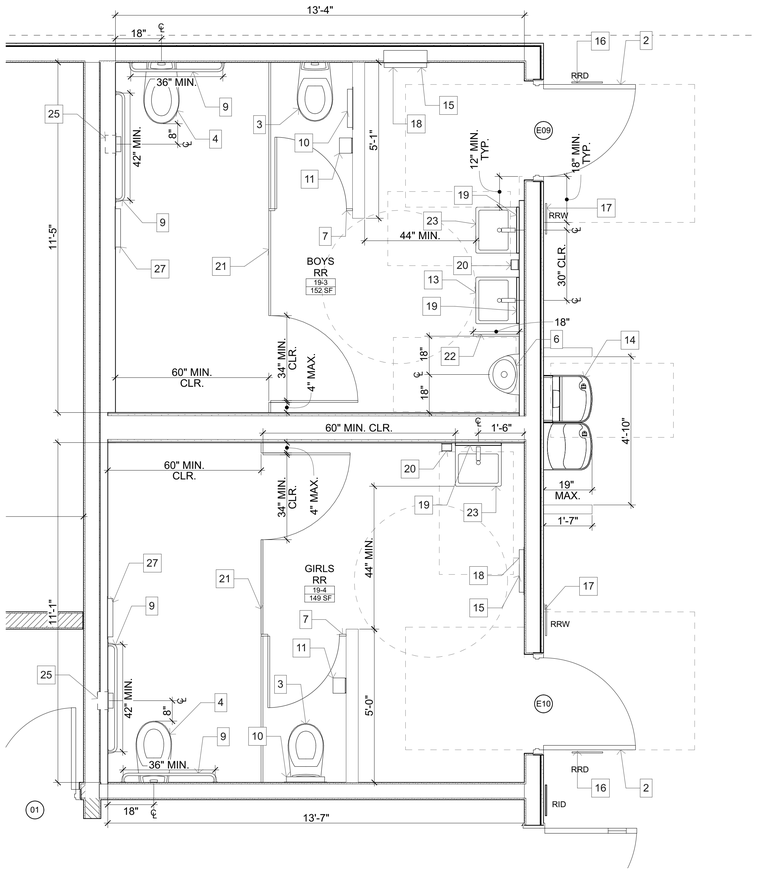
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MODEL FILE:
25-0 LUSD Lemon Crest Kitchen Expansion.pln
PLOT DATE:
4/9/2026

SHEET TITLE

ENLARGED NEW WORK RESTROOMS- STAFF

A-502

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2 ENLARGED NEW WORK RESTROOM PLAN - GIRLS & BOYS

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

BUILDING 19
AGE GROUP: 9-12
EXISTING RESTROOM PER DSA APPROVED A#04-112483

SIGNAGE LEGEND

SYMBOL	NAME	DETAIL
RID	TACTILE ROOM IDENTIFICATION SIGN	10/A-202
E	TACTILE EXIT SIGN	14/A-202
RRW	TACTILE RESTROOM WALL SIGN	11/A-504
RRD	TACTILE RESTROOM DOOR SIGN	12/A-504

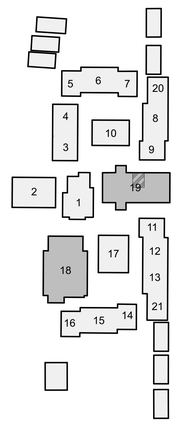
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3. EXISTING FLOOR MOUNTED WATER CLOSET TO REMAIN.
4. EXISTING ACCESSIBLE FLOOR MOUNTED WATER CLOSET TO REMAIN. REFER TO DETAILS 2 & 6/A-504 .
5. NOT USED.
6. EXISTING ACCESSIBLE URINAL TO REMAIN. REFER TO DETAIL 7 & 6/A-504 .
7. EXISTING TOILET PARTITION TO REMAIN.
8. NOT USED.
9. EXISTING 1-1/2" DIA. STEEL GRAB BAR TO REMAIN. REFER TO DETAILS 2 & 6/A-504 .
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11. EXISTING TOILET PAPER DISPENSER TO REMAIN. REFER TO DETAIL 9/A-504 FOR MOUNTING HEIGHTS.
12. NOT USED.
13. EXISTING LAVATORY TO REMAIN.
14. NEW ACCESSIBLE DRINKING FOUNTAIN. REFER TO DETAIL 10/A-504 .
15. EXISTING RECESSED TRASH RECEPTICLE TO REMAIN.
16. EXISTING DOOR SYMBOL TO REMAIN. REFER TO DETAIL 12/A-504 .
17. EXISTING WALL SIGNAGE TO REMAIN. REFER TO DETAIL 11/A-504 .
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23. NEW LOCATION FOR ACCESSIBLE LAVATORY. REFER TO DETAIL 4/A-504 . PATCH AND REPAIR WALL MOUNTED TILE AS NEEDED.
24. NOT USED.
25. NEW SEMI-RECESSED TOILET PAPER DISPENSER. REFER TO DETAIL 6 & 9/A-504 FOR MOUNTING HEIGHTS. PATCH AND REPAIR TILE AND ADJACENT SURFACES AS NEEDED.
26. NOT USED.
27. NEW LOCATION FOR TOILET SEAT DISPENSER. REFER TO DETAIL 9/A-504 FOR MOUNTING HEIGHTS.

GENERAL NOTES

1. ALL DIMENSIONS SHALL BE TO FACE OF FINISH U.O.N.
2. AREAS WITH FLOOR DRAINS AND SINKS SHALL HAVE SLOPES NOT STEEPER THAN 1:48 IN ALL DIRECTIONS.
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KEY PLAN



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REVISIONS

MARK	DATE	DESCRIPTION
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PROJECT NO: #PIn

MODEL FILE:
25-0 LUSD Lemon Crest Kitchen Expansion.pln

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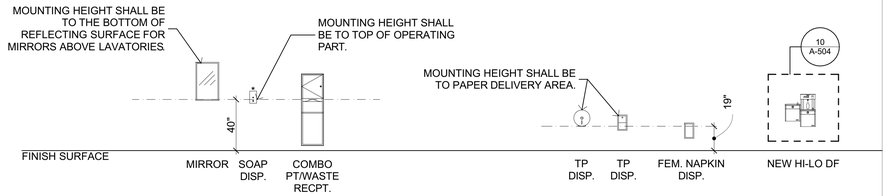
ENLARGED NEW WORK RESTROOM PLANS- GIRLS & BOYS

A-503

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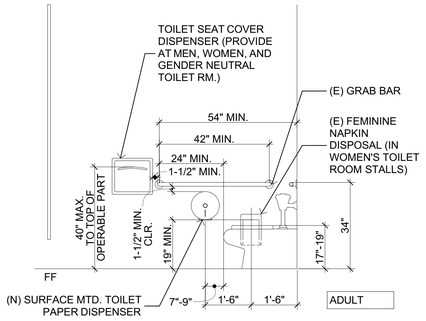
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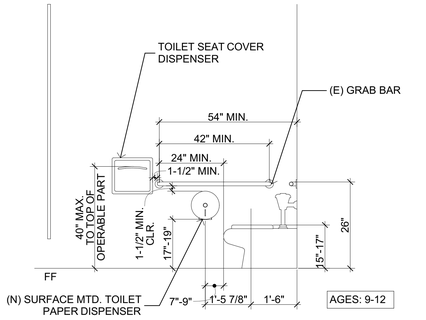
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9 ACCESSORY MOUNTING HEIGHTS

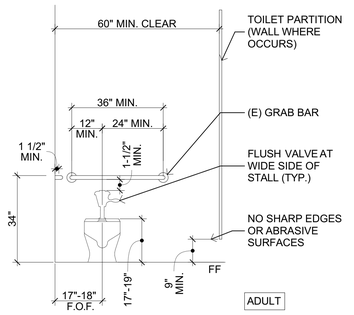
SCALE: 1/2" = 1'-0"

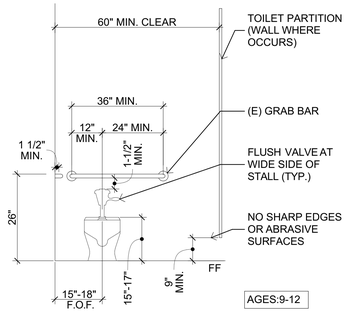




6 ACS STALL SIDE ELEVATION

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



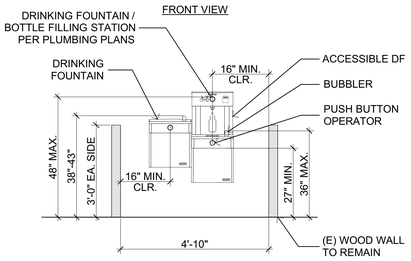


2 ACS STALL FRONT ELEVATION

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

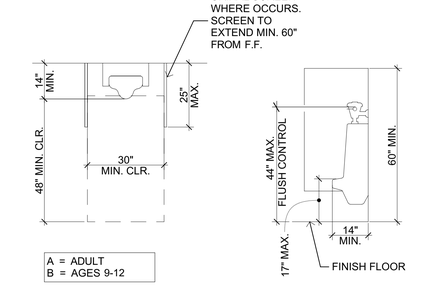
NOTE:

-SPOUT SHALL PROVIDE A FLOW OF WATER 4" HIGH MIN. AND SHALL BE LOCATED 5" MAX. FROM THE FRONT OF THE UNIT. THE ANGLE OF THE WATER STREAM SHALL BE MEASURED HORIZONTALLY RELATIVE TO THE FRONT FACE OF THE UNIT. WHERE SPOUTS ARE LOCATED LESS THAN 3" FROM THE FRONT OF THE UNIT, THE ANGLE OF THE WATER STREAM SHALL BE 30 DEGREES MAX. WHERE SPOUTS ARE LOCATED 3"-5" MAX. FROM THE FRONT OF THE UNIT, THE ANGLE OF THE WATER STREAM SHALL BE 15 DEGREES MAX.



10 (N) ACS. DRINKING FOUNTAIN

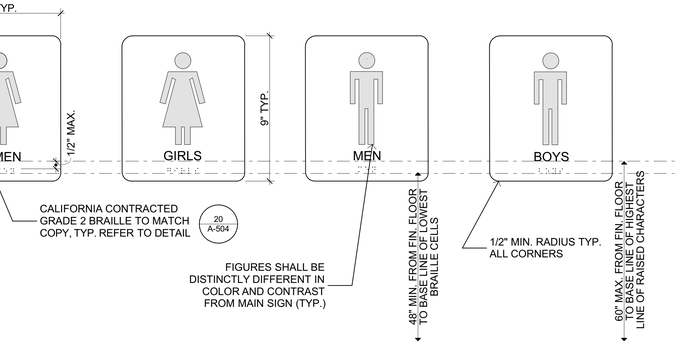
SCALE: 1/2" = 1'-0"



7 ACS URINAL

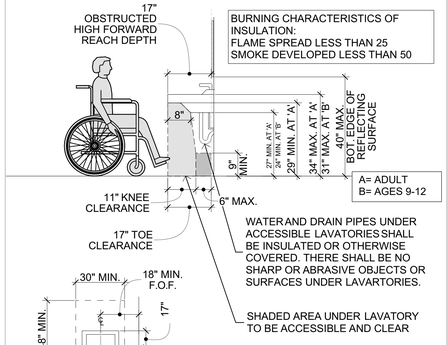
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NOT USED



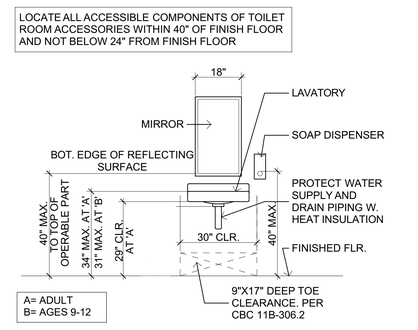
11 (E) RESTROOM WALL SIGNAGE

SCALE: 3" = 1'-0"



8 ACS LAVATORY CLEARANCES

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



4 (E) ACS LAVATORY

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

RAISED CHARACTERS SHALL COMPLY WITH **CBC SECTION 11B-703.2:**

DEPTH: RAISED CHARACTERS SHAL BE 1/32-INCH (0.8 MM) MINIMUM ABOVE THEIR BACKGROUNDS AND SHALL BE SANS-SERIF UPPERCASE AND BE DUPLICATED IN BRAILLE.

HEIGHT: RAISED CHARACTER HEIGHT SHALL BE 5/8-INCH (15.9 MM) MINIMUM AND 2 INCHES (51 MM) MAXIMUM BASED ON THE HEIGHT OF THE UPPERCASE LETTER "I". **CBC SECTION 11B-703.2.5.**

PROPORTIONS: RAISED CHARACTER PROPORTIONS SHALL BE SELECTED FROM THE FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60% MINIMUM AND 110$ MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I". STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 15% MAXIMUM OF THE HEIGHT OF THE CHARACTER. **CBC SECTIONS 1B-703.2.4 AND 11B-703.2.6.**

CHARACTER SPACING: SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL COMPLY WITH **CBC SECTION 11B-703.2.7.**

LINE SPACING: BETWEEN THE BASELINES OF SEPERATE LINES OF CHARACTERS WITHIN A MESSAGE SHALL BE 135% MIN. AND 170% MAX. OF THE CHARACTER HEIGH PER **CBC SECTION 11B-703.2.8.**

FORMAT: TEXT SHALL BE IN A HORIZONTAL FORMAT. **CBC SECTION 11B-703.2.9.**

BRAILLE: BRAILE SHALL BE CONTRACTED (GRADE 2) AND SHALL COMPLY WITH CBC SECTIONS 11B-703.3 AND 11B-703.4. BRAILLE DOTS SHALL HAVE A DOMES OR ROUNDED SHAPE AND SHALL COMPLY WITH **CBC SECTION AND FIGURE 11B-703.3.1.**

MOUNTING HEIGHT: TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48" MINIMUM TO THE BASELINE OF THE LOWEST BRAILLE CELLS AND 60" MAXIMUM TO THE BASELINE OF THE HIGHEST LINE OF THE RAISED CHARACTERS ABOVE THE FINISH FLOOR OR GROUND SURFACE. **CBC SECTION AND FIGURE 11B-703.4.1.**

MOUNTING LOCATION: A TACTILE SIGN SHALL BE LOCATED PER **CBC SECTION AND FIGURE 11B-703.4.2** AS FOLLOWS:
- ALONGSIDE A SINGLE DOOR AT THE LATCH SIDE
- ON THE INACTIVE LEAF AT DOUBLE DOORS WITH ONE ACTIVE LEAF
- ON THE NEAREST ADJACENT WALL WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR.
- AT THE RIGHT SIDE OF DOUBLE DOORS WITH TWO ACTIVE LEAFS. (FOR ALL CASES, A CLEAR FLOOR SPACE OF 18" X 18" MINIMUM, CENTERED ON THE TACTILE CHARACTERS, SHALL BE PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45-DEGREE OPEN POSITION)

VISUAL CHARACTERS SHALL COMPLY WITH CBC SECTION 11B-703.5 AND SHALL BE 40" MINIMUM ABOVE FINISH FLOOR OR GROUND. VISUAL CHARACTER STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 10% MINIMUM AND 20% MAXIMUM OF THE HEIGHT OF THE CHARCATER. **CBC SECTION 11B-703.5.7.**
- **FINISH AND CONTRAST:** CHARACTERS AND THIER BACKGROUND SHALL HAVE A NON-GLARE FINISH. CHARACTER SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND. **CBC SECTION 11B-703.5.1.**
- **LINE SPACING** BETWEEN THE BASELINES OF SEPERATE LINES OF CHARACTERS WITHING A MESSAGE SHALL BE 135% MIN. AND 170% MAX. OF THE CHARACTER HEIGHT PER **CBC SECTION 11B-703.5.9.**
- **CHARACTER SPACING** BETWEEN INDIVIDUAL ADJACENT CHARACTERS SHALL BE 10% MIN. AND 35% MAX OF CHARACTER HEIGHT PER **CBC SECTION 11B-703.5.8.**

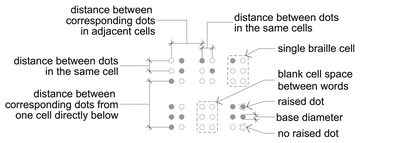
PICTOGRAMS SHALL COMPLY WITH **CBC SECTION 11B-703.6.**

SYMBOLS OF ACCESIBILITY SHALL COMPLY WITH **CBC 11B-703.7.**

VARIABLE MESSAGE SIGNS SHALL COMPLY WITH **CBC SECTION 11B-703.8.**

MEASUREMENT RANGE	MINIMUM IN INCHES MAXIMUM IN INCHES
DOT BASE DIAMETER	0.059 (1.5 mm) to 0.063 (1.6 mm)
DISTANCE BETWEEN TWO DOTS IN THE SAME CELL[1]	0.100 (2.5 mm)
DISTANCE BETWEEN CORRESPONDING DOTS IN ADJACENT CELLS[1]	0.300 (7.6 mm)
DOT HEIGHT	0.025 (0.6 mm) to 0.037 (0.9 mm)
DISTANCE BETWEEN CORRESPONDING DORS FROM ONE CELL DIRECTLY BELOW[1]	0.395 (10 mm) to 0.400 (10.2 mm)

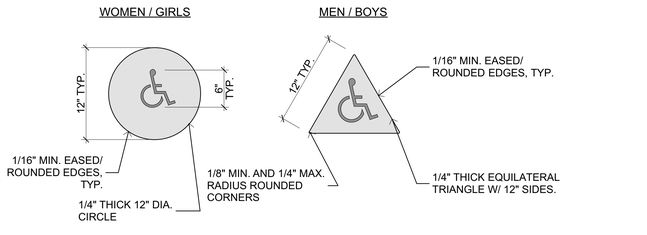
1. MEASURED CENTER TO CENTER.



REQUIRED ROUNDED OR DOMED CONTRACTED CALIFORNIA BRAILLE (GRADE 2) DOTS, EACH DISTINCT AND SEPARATE. DOTS WITH STRAIGHT SIDES AND FLAT TOPS ARE NOT READABLE FOR MANY BRAILLE USERS. SQUARE DOT NOT ACCEPTABLE.

20 BRAILLE

SCALE: 1" = 1'-0"



NOTE:

SYMBOLS SHALL BE DISTINCTLY DIFFERENT FROM THE DOOR IN COLOR AND CONTRAST.

SIGN SHALL BE CENTERED ON DOOR AND MOUNTED 60" A.F.F. TO THE CENTER OF THE SIGN.

12 (E) RESTROOM DOOR SIGNAGE

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

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PROJECT NO: #Pln

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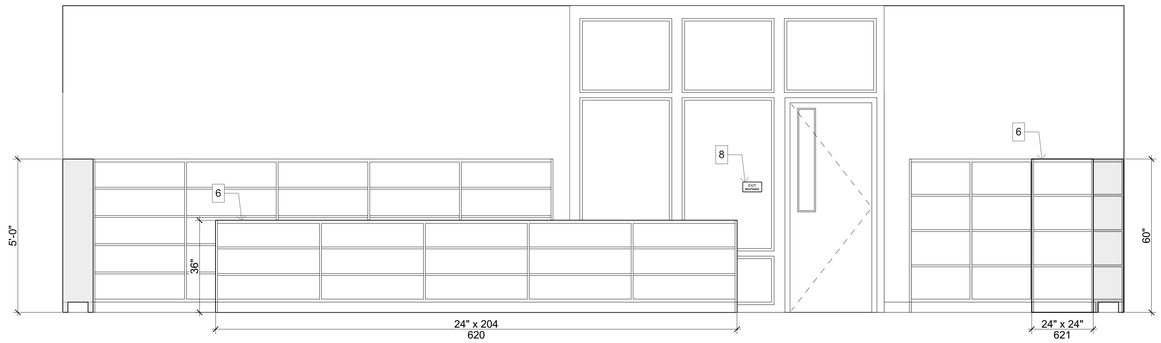
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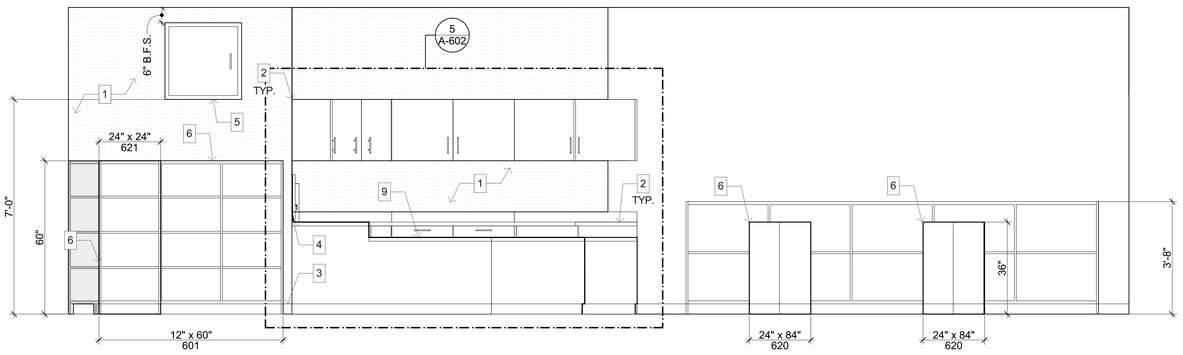
RESTROOM DETAILS

A-504

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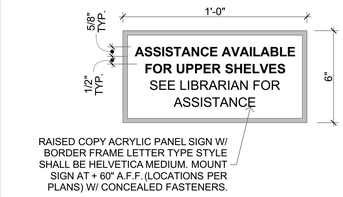
9 NORTH INTERIOR ELEVATION - LIBRARY
SCALE: 1/2" = 1'-0"



10 SOUTH INTERIOR ELEVATION - LIBRARY
SCALE: 1/2" = 1'-0"

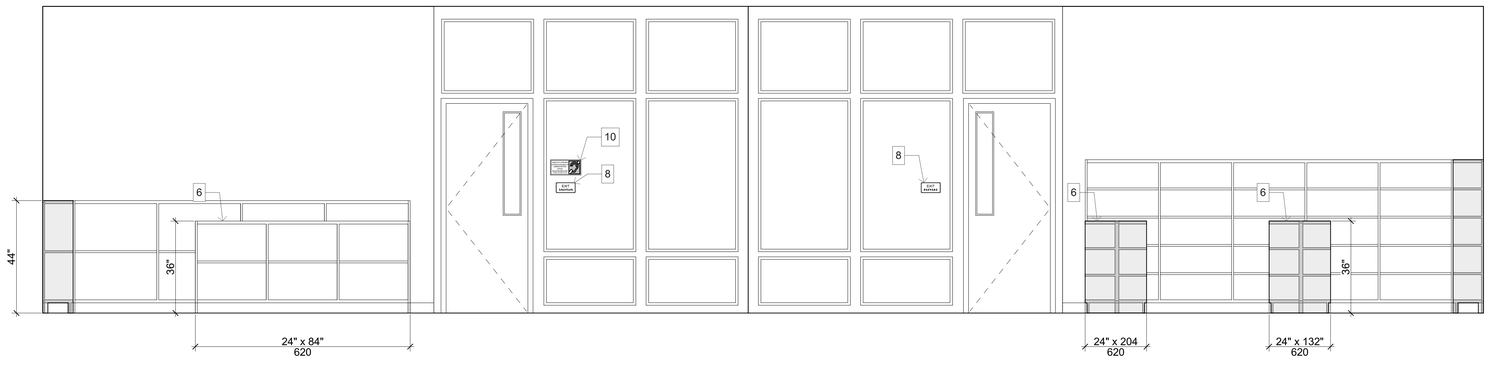
KEYNOTES

1. NEW WALL WITH TACK SURFACE. REFER TO FINISH SCHEDULE ON SHEET A-901 AND DETAIL 3/A-602 .
2. NEW PLASTIC LAMINATE CASEWORK. REFER TO ENLARGED CASEWORK PLAN 17/A-602 .REFER TO DETAILS 2, 10, 4, 6, 11 & 12/A-602 FOR ANCHORAGE.
3. NEW 4" TOPSET RUBBER BASE AT NEW WALL. REFER TO FINISH SCHEDULE ON SHEET A-901 .
4. NEW LOCATION FOR (E) FIRE EXTINGUISHER, RATED 2A:10B:C IN RECESSED CABINET. REFER TO DETAIL 4/A-202 .
5. NEW LOCATION FOR (E) IDF CABINET. REFER TO ELECTRICAL PLANS.
6. NEW LIBRARY CABINETS WITH ADJUSTABLE SHELVES PER DETAIL 15/A-602 . REFER TO DETAIL 4/A-602 FOR BASE ANCHORAGE.
7. NOT USED.
8. NEW EXIT SIGNAGE. REFER TO DETAIL 8 & 14/A-202 .
9. NEW ACCESSIBLE WORK STATION. REFER TO REFER TO CASEWORK ELEVATIONS ON 17 & 16/A-602 AND DETAIL 2/A-602 .
10. NEW ALS SIGNAGE. REFER TO DETAIL 11/A-202 .
11. NEW SHELF HEIGHT ASSISTANCE SIGNAGE. REER TO DETAIL 2/A-601 .

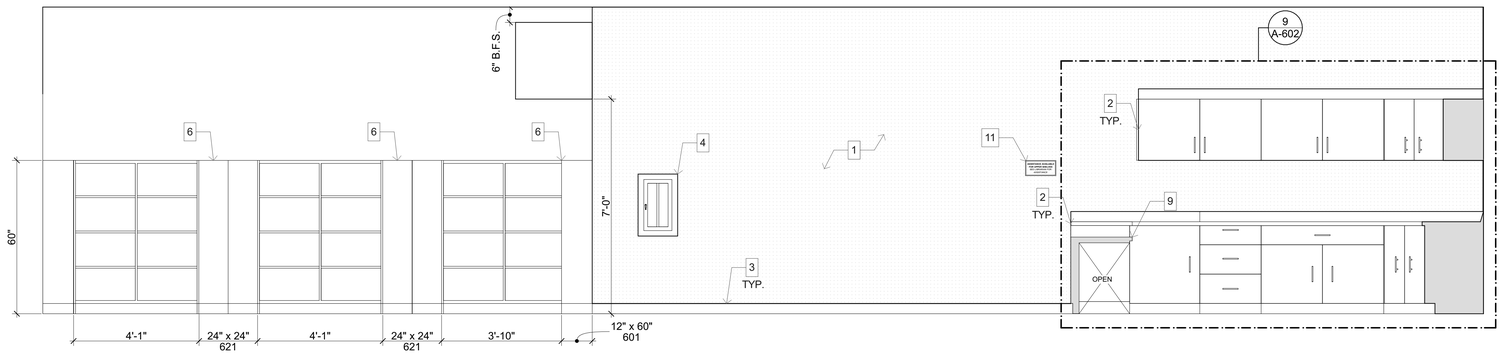


RAISED COPY ACRYLIC PANEL SIGN W/ BORDER FRAME LETTER TYPE STYLE SHALL BE HELVETICA MEDIUM. MOUNT SIGN AT + 60" A.F.F. (LOCATIONS PER PLANS) W/ CONCEALED FASTENERS.

2 SHELF HEIGHT ASSISTANCE SIGNAGE
SCALE: 3" = 1'-0"



7 WEST INTERIOR ELEVATION - LIBRARY
SCALE: 1/2" = 1'-0"



8 EAST INTERIOR ELEVATION - LIBRARY
SCALE: 1/2" = 1'-0"

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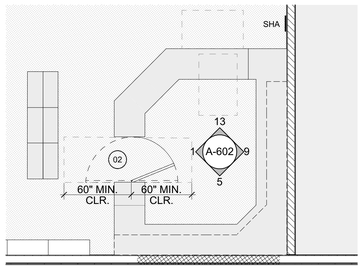
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INTERIOR ELEVATIONS-
LIBRARY

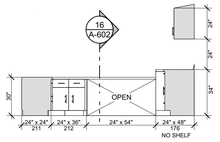
A-601

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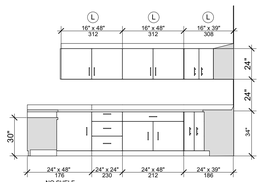
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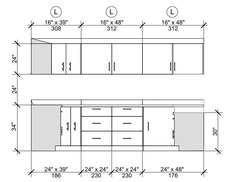
17 19-1 LIBRARIAN DESK
SCALE: 1/4" = 1'-0"



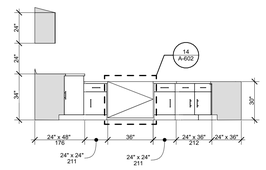
13 19-1 LIBRARIAN DESK
SCALE: 1/4" = 1'-0"
FOR ONLY ONE LIBRARIAN



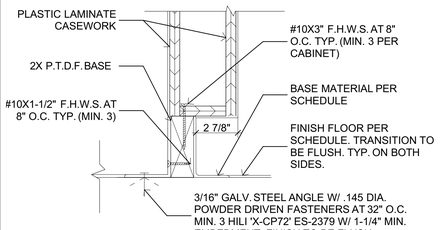
9 19-1 LIBRARIAN DESK
SCALE: 1/4" = 1'-0"



5 19-1 LIBRARIAN DESK
SCALE: 1/4" = 1'-0"

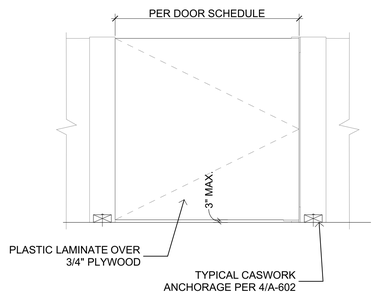


1 19-1 LIBRARIAN DESK
SCALE: 1/4" = 1'-0"

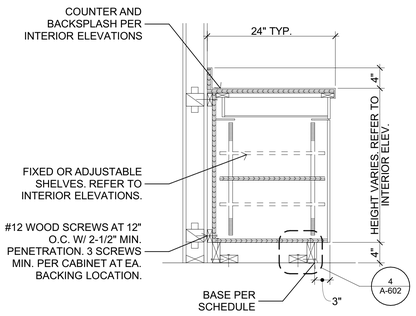


18 ACS. WORKSTATION AT BASE
SCALE: 3" = 1'-0"

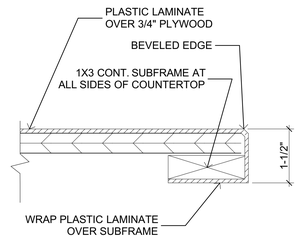
NOTE:
- GATE TO SWING IN BOTH DIRECTIONS WITH NO LATCH



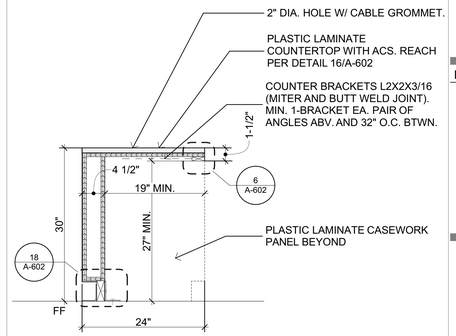
14 SWING GATE AT CASEWORK
SCALE: 1" = 1'-0"



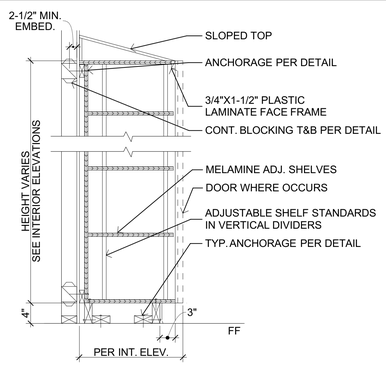
10 BASE CABINET
SCALE: 1" = 1'-0"



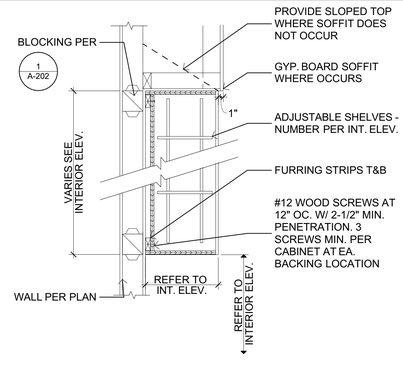
6 P-LAM COUNTERTOP EDGE
SCALE: 6" = 1'-0"



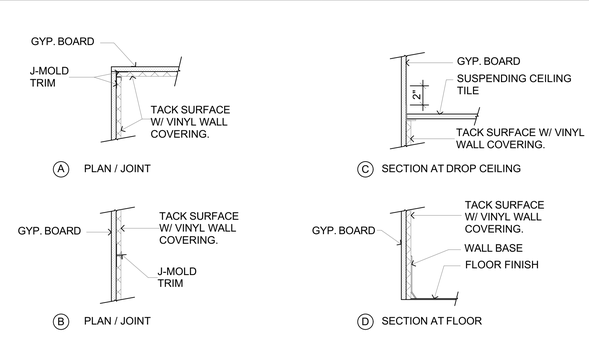
2 P-LAM COUNTERTOP
SCALE: 1" = 1'-0"



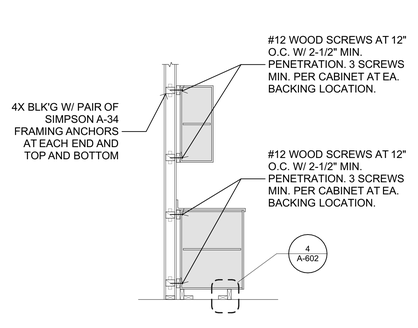
15 ADJUSTABLE SHELF UNIT
SCALE: 1" = 1'-0"



11 WALL CABINET
SCALE: 1" = 1'-0"



3 TACK SURFACE
SCALE: 1 1/2" = 1'-0"

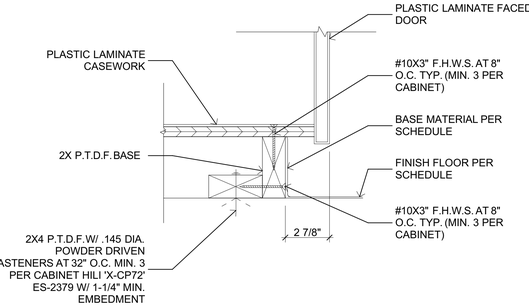


NOTE:

1. PER 2022 CBC 11B-3.8.2.2: WHERE A HIGH FORWARD REACH IS OVER AN OBSTRUCTION, THE CLEAR FLOOR SPACE SHALL EXTEND BENEATH THE ELEMENT FOR A DISTANCE NOT LESS THAN THE REQ. REACH DEPTH OVER THE OBSTRUCTION. THE HIGH FORWARD REACH SHALL BE 48 INCHES MAX. WHERE THE REACH DEPTH IS 20 INCHES MAX. WHERE THE REACH DEPTH EXCEEDS 20 INCHES, THE HIGH FORWARD REACH SHALL BE 44 INCHES MAX AND THE REACH DEPTH SHALL BE 20 TO 25 INCHES MAX.
2. NO SHARP OR ABRASIVE ELEMENTS IN KNEE SPACE.

16 ACS REACH RANGES
SCALE: 1/2" = 1'-0"

12 TYPICAL CASEWORK ANCHORAGE
SCALE: 1/2" = 1'-0"



4 CASEWORK ANCHORAGE AT BASE
SCALE: 3" = 1'-0"

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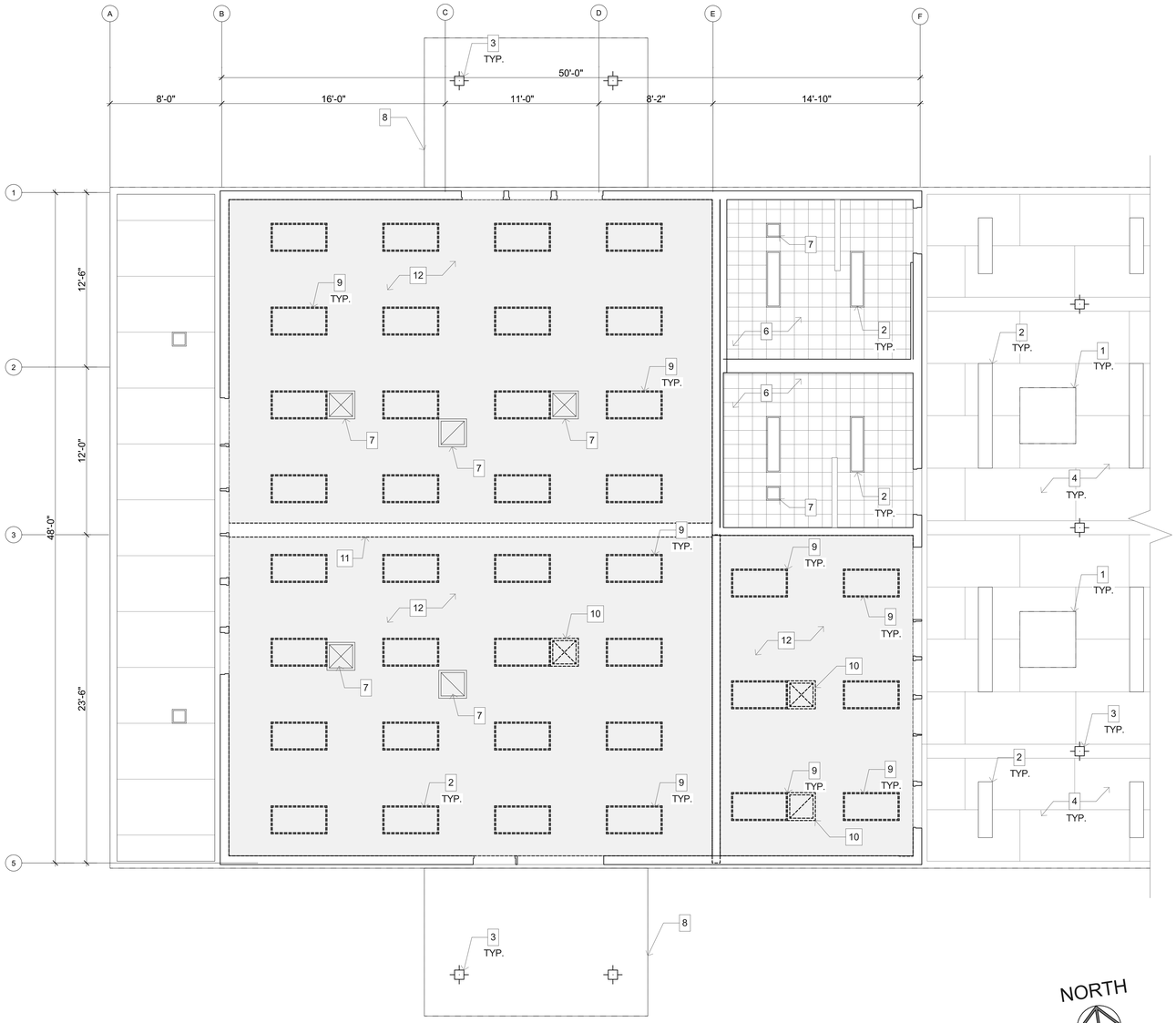
SHEET TITLE

CASEWORK DETAILS

A-602

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1 DEMOLITION REFLECTED CEILING PLAN

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

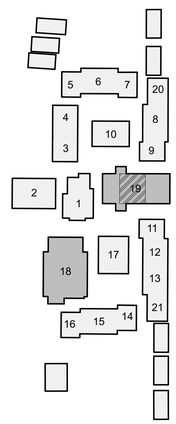
NORTH

0 2' 4' 8'

KEYNOTES

1. EXISTING SKYLIGHT TO REMAIN.
2. EXISTING LIGHT FIXTURE TO REMAIN.
3. EXISTING COLUMN TO REMAIN.
4. EXISTING ROUGH SAWN PLYWOOD CEILING TO REMAIN.
5. NOT USED.
6. EXISTING 12" X 12" CEILING TILE TO REMAIN.
7. EXISTING MECHANICAL EQUIPMENT TO REMAIN.
8. EXISTING ROOF CANOPY TO REMAIN.
9. EXISTING LIGHTING TO BE DEMOLISHED.
10. EXISTING DUCT WORK TO BE DEMOLISHED AND DISCONNECTED. REFER TO MECHANICAL DRAWINGS.
11. EXISTING WALL PARTITION TRACK TO BE REMOVED.
12. EXISTING T-GRID TO BE DEMOLISHED.

KEY PLAN



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PLOT DATE:
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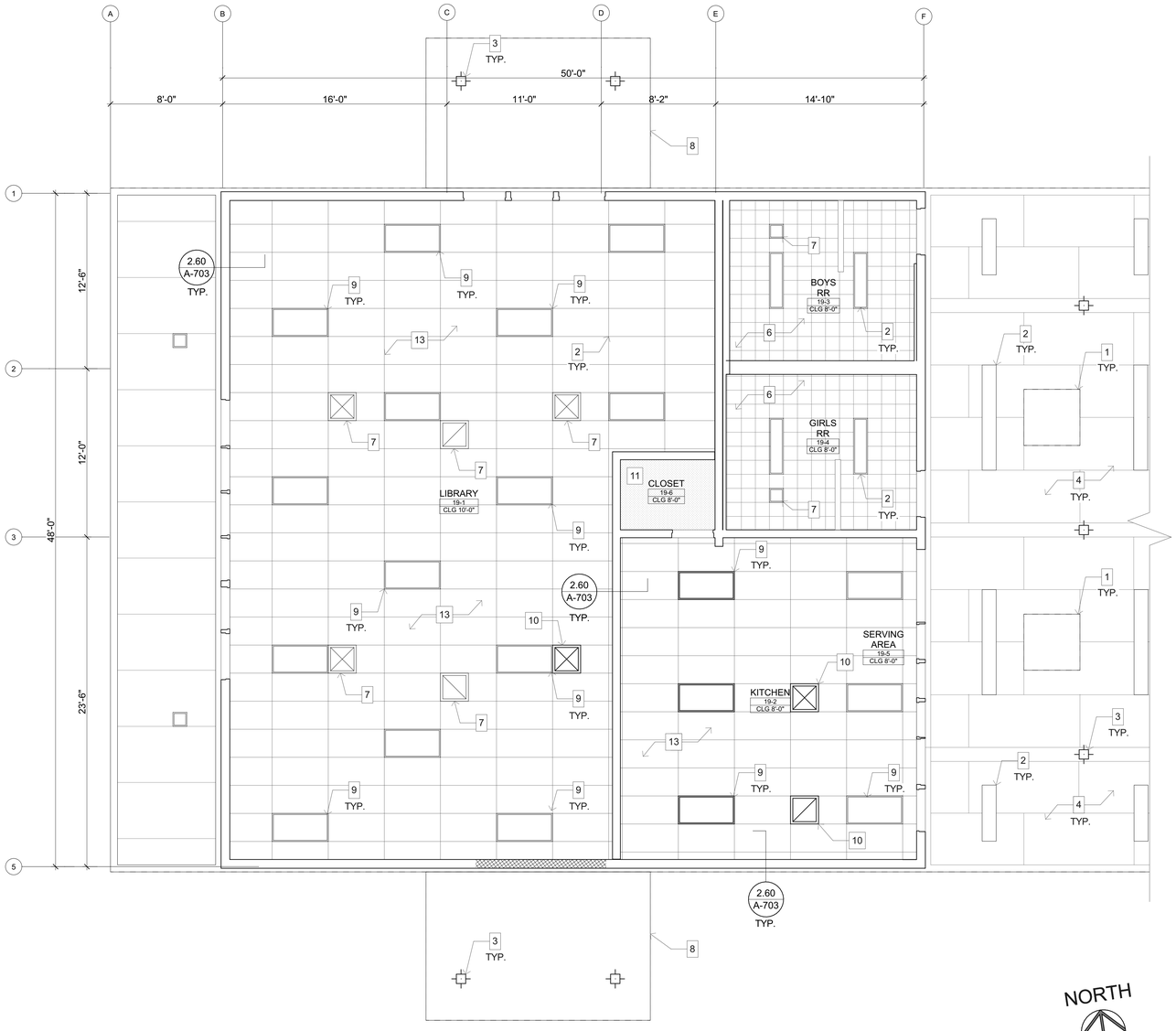
DEMOLITION
REFLECTED CEILING
PLAN

A-701

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1 NEW WORK REFLECTED CEILING PLAN

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

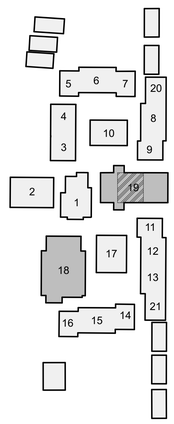
KEYNOTES

1. EXISTING SKYLIGHT TO REMAIN.
2. EXISTING LIGHT FIXTURE TO REMAIN.
3. EXISTING COLUMN TO REMAIN.
4. EXISTING ROUGH SAWN PLYWOOD TO REMAIN.
5. NOT USED.
6. EXISTING 12" X 12" CEILING TILE TO REMAIN.
7. EXISTING MECHANICAL EQUIPMENT TO REMAIN.
8. EXISTING ROOF CANOPY TO REMAIN.
9. NEW LIGHT FIXTURE. REFER TO ELECTRICAL DRAWINGS.
10. NEW DUCT WORK AND MECHANICAL EQUIPMENT. REFER TO MECHANICAL DRAWINGS.
11. NEW 5/8" GYPSUM BOARD CEILING PER FINISH SCHEDULE ON SHEET A-901 . CEILING JOISTS TO BE 16" O.C. IN SHORT DIRECTION. REFER TO STRUCTURAL DETAIL 17/S201 FOR SIZING AND ATTACHMENT.
12. NOT USED.
13. NEW 2' x 4' ACOUSTICAL CEILING TILES IN SUSPENDED T-BAR GRID. REFER TO SHEETS A-703 & A-704 FOR DETAILS.

GENERAL NOTES

1. SEE SHEETS A-703 & A-704 FOR TYPICAL SUSPENDED ACOUSTICAL CEILING NOTES AND DETAILS.
2. REFER TO THE FINISH SCHEDULE AND THE SPECIFICATIONS FOR LOCATIONS AND DESCRIPTION OF VARIOUS ACOUSTICAL CEILING TYPES.
3. REFERENCE DETAIL 2.12/ A-703 FOR TYPICAL SUSPENDED CEILING LAYOUT.
4. REFERENCE DETAIL 2.60/ A-703 FOR PERIMETER ANGLE ATTACHEMENT.
5. REFERENCE DETAIL 2.80/ A-703 FOR LIGHT FIXTURE ATTACHEMENT.
6. REFERENCE DETAIL 4.10 & 4.11/ A-703 FOR HANGER WIRE ATTACHMENT.
7. PROVIDE ACCESS PANELS WITHIN GYPSUM BOARD CEILING AS REQUIRED TO ACCESS CONCEALED EQUIPMENT. CONFIRM FINAL LOCATION AND SIZE WITH ARCHITECT. REFER TO SPECIFICATIONS.
8. ALL CEILING HEIGHTS MEASURED FROM FINISH FLOOR OF THEIR RESPECTIVE FLOOR.
9. AN ATTIC ACCESS OPENING NOT LESS THAN 20 INCHES BY 30 INCHES SHALL BE PROVIDED TO ANY ATTIC AREA HAVING A CLEAR HEIGHT OF OVER 30 INCHES. CLEAR HEADROOM OF NOT LESS THAN 30 INCHES SHALL BE PROVIDED IN THE ATTIC SPACE AT OR ABOVE THE ACCESS OPENING.
10. FOR WALL TYPES, REFERENCE WALL LEGEND ON SHEET A-201 .

KEY PLAN



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SHEET TITLE

NEW WORK REFLECTED CEILING PLAN

A-702

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IR 25-2
SUSPENDED LAY-IN PANEL CEILING: 2022 CBC

1. CEILING SYSTEM GENERAL NOTES

1.01 Ceiling system components shall comply with ASTM C635 and Section 5.1 of ASTM E580.

1.02 The ceiling grid system shall be rated heavy duty as defined by ASTMC635.

1.03 Ceiling systems. The following ceiling system(s) is/are part of the scope of this project:

Manufacturer:	**ARMSTRONG WORLD INDUSTRIES, INC.**
Product Name:	**PRELUDE AND PLUS SYSTEMS**
Evaluation Report Number:	**ICC-ES ESR 1308**
Main Runner Part, Model, or Catalog Number:	**ARMSTRONG PRELUDE XL 15/16" ITEM NO. 7301**
Cross Runner Part, Model, or Catalog Number:	**ARMSTRONG PRELUDE XL 15/16" ITEM NO. 7341**

1.04 Seismic Wall Clip:
Manufacturer's Model: **N/A**

1.05 Ceiling panels shall not support any luminaires, air terminals, or devices.

1.06 For acoustical tile panels of any material other than mineral or glass fiber, a ¾" clearance shall be provided between the panel and the wall on the sides of the ceiling free toslip. Clearance between ceiling grid runners and walls shall comply with the details on these drawings regardless of ceiling tile material.

2. MATERIALS

2.01 Ceiling wire shall be Class 1 zinc coated (galvanized) carbon steel conforming toASTM A641. Wire shall be #12 gauge (0.106" diameter) with soft temper and minimum ultimate tensile strength = 70 ksi.

2.02 Galvanized sheet steel (including that used for metal stud compression struts) shall conform to ASTM A653, or other equivalent sheet steel listed in Section A3.1 of the North American Specification for the Design of Cold-Formed Steel Structural Members, (AISI S100). Material 43 mil (18 gauge) thick and lighter shall have minimum yield strength of 33 ksi. Material 54 mil (16 gauge) thick and heavier shall have a minimum yield strength of 50 ksi.

2.03 Electrical metallic tube (EMT) shall conform to ANSI C80.3/UL 797 carbon steel with G90 galvanizing. EMT shall have minimum yield strength of 30 ksi and minimum ultimate strength of 48 ksi.

3. ATTACHMENT OF HANGER AND BRACING WIRES

3.01 All ceiling hanger and bracing wires shall be separated at least 6 inches from all unbraced ducts, pipes, conduit, etc.

3.02 Hanger and bracing wires shall not attach to or bend around obstructions including but not limited to piping, ductwork, conduit, and equipment.

3.03 Hanger wires that are more than one (horizontal) in six (vertical) out of plumb shall have counter-sloping wires.

Detail Title:	REV: 09/21/2015	Detail No.
CEILING NOTES	REV: 03/2022	1.00
	REV: 11/2023	

IR 25-2
SUSPENDED LAY-IN PANEL CEILING: 2022 CBC

3.04 Slack safety wires shall be considered hanger wires for installation and testing requirements.

3.05 Hanger and bracing wire anchorage to the structure shall be installed such that the direction of the anchorage aligns with the direction of the wire. Bracing wire ceiling clips shall be bent as shown in the details and rotated as required to align with the direction of the wire. Screws in wood shall be installed to align with the direction of the wire.

4. FASTENERS AND WELDING

4.01 Sheet metal screws shall comply with ASTM C1513 and ASME B18.6.3. Penetration of screws through joined material shall not be less than three exposed threads.

4.02 Expansion anchors shall be: **N/A**

4.03 Power-Actuated Fasteners shall be: **N/A**

4.04 If not otherwise specified in the evaluation report, power-actuated fasteners installed in steel shall be installed so the entire pointed end of the fastener is driven through the steel member.

4.05 Power-actuated fasteners in concrete or masonry are not permitted for bracing wires.

4.06 Concrete reinforcement and prestressing tendons shall be located by non-destructive means prior to installing post-installed anchors.

4.07 Welding shall be in accordance with AWS D1.3 using E60XX series electrodes.

5. TESTING

5.01 All field testing shall be performed in the presence of the project inspector.

5.02 Post-installed anchors in concrete used to support hanger wires shall be tested at a frequency of 10 percent. Power-actuated fasteners in concrete shall be field tested for 200 pounds in tension. All other post-installed anchors in concrete shall be tested in accordance with CBC Section 1910A.5.

5.03 Post-installed anchors in concrete used to attach bracing wires shall be tested at a frequency of 50 percent and in accordance with CBC Section 1910A.5.

6. LUMINAIRES

6.01 All luminaires shall be positively attached to the ceiling suspension systems by mechanical means to resist a horizontal force equal to the weight of the luminaire. A minimum of two screws or approved fasteners are required at each luminaire per ASTM E580 Section 5.3.1.

6.02 Surface-mounted luminaires shall be attached to the main runner with at least two positive clamping devices. The clamping device shall completely surround the supporting ceiling runner and be made of steel with a minimum thickness of #14 gauge. Rotational spring catches are not permitted. A #12 gauge slack safety wire shall be connected from each clamping device to the structure above. Additional supports shall be provided when a luminaire is 8 feet or longer or exceeds 56 pounds. Maximum spacing between supports shall not exceed 8 feet.

Detail Title:	REV: 09/21/2015	Detail No.
CEILING NOTES	REV: 03/2022	1.00
	REV: 11/2023	

IR 25-2
SUSPENDED LAY-IN PANEL CEILING: 2022 CBC

6.03 Luminaires weighing less than or equal to 10 pounds supported directly on the ceiling runners shall have a minimum of one #12 gauge slack safety wire connected from the fixture housing to the structure above.

6.04 Luminaires weighing greater than 10 pounds but less than or equal to 56 pounds supported directly on the ceiling runners shall have a minimum of two #12 gauge slack safety wires connected from the fixture housing at diagonal corners to the structure above.

Exception: All luminaires greater than two by four feet weighing less than 56 pounds shall have a #12 gauge slack safety wire at each corner.

6.05 All luminaires weighing greater than 56 pounds shall be independently supported from the structure above. See support details on these drawings for more information.

7. SERVICES WITHIN THE CEILING

7.01 All flexible sprinkler hose fitting mounting brackets, ceiling-mounted air terminals, or other services shall be positively attached to the ceiling suspension systems by mechanical means. Screws or other fasteners specified on the drawings are required. A minimum of two attachments are required at each component.

7.02 Ceiling-mounted services weighing less than or equal to 20 pounds shall have one #12 gauge slack safety wire attached from the terminal or service to the structure above.

7.03 Ceiling-mounted services weighing more than 20 pounds but less than or equal to 56 pounds shall have two #12 gauge slack safety wires (at diagonal corners) connected from the terminal or service to the structure above.

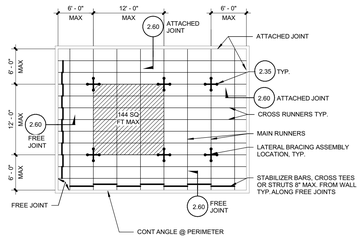
7.04 Ceiling-mounted services weighing more than 56 pounds shall be independently supported from the structure above. See support details on these drawings for more information.

8. OTHER DEVICES WITHIN THE CEILING

8.01 All lightweight miscellaneous devices, such as strobe lights, occupancy sensors, speakers, exit signs, etc., shall be attached to the ceiling grid. Devices weighing more than 10 pounds shall have a #12 gauge slack safety wire anchored to the structure above. Devices weighing more than 20 pounds shall be independently supported from the structure above.

Detail Title:	REV: 09/21/2015	Detail No.
CEILING NOTES	REV: 03/2022	1.00
	REV: 11/2023	

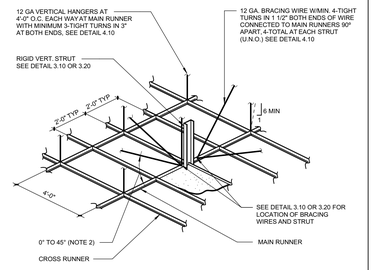
IR 25-2
SUSPENDED LAY-IN PANEL CEILING: 2022 CBC



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

Detail Title :	REV: 09/21/2015	Detail No.
TYP. CEILING PLAN FOR 12'-0"x12'-0" BRACE ASSEMBLY SPACING	REV: 03/2022	2.12

IR 25-2
SUSPENDED LAY-IN PANEL CEILING: 2022 CBC



NOTES:
1. STRUTS SHALL NOT REPLACE HANGER WIRES.
2. THE MINIMUM ACCEPTABLE ANGLE IS DETERMINED SUCH THAT THE WIRES DO NOT INTERFERE WITH THE RUNNERS, LIGHT FIXTURES, ETC. AND REMAIN STRAIGHT AND UNOBSTRUCTED.

Detail Title :	REV: 09/21/2015	Detail No.
SUSPENSION AND LATERAL BRACING ASSEMBLY	REV: 03/10/2017	2.35
	REV: 03/2022	

IR 25-2
SUSPENDED LAY-IN PANEL CEILING: 2022 CBC

NOTES:
1. PROVIDE #12 GAGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE SUPPORT OR WITHIN ONE-FOURTH (1/4) OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS, FOR THE PERIMETER OF THE CEILING AREA. PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS EIGHT (8) INCHES OR LESS.
2. NAILS AT ENDS OF HORIZONTAL STABILIZERS ARE TO BE PLACED WITH NAIL HEAD TOWARD CENTER LINE OF SPAN OF STRUT.
3. STABILIZER BAR MAY BE SLOTTED APPROVED ANGLES OR CHANNELS WITH "DIAMOND POINTS" OF SPRING STEEL WHICH SNAP TIGHT TO PREVENT MOVEMENT OF STRUT.
4. FASTEN ANGLE TO WALL STUD OR BLOCKING AS FOLLOWS:
   A. METAL STUD: (20 GA. MIN.) WALL: (1) #10 SMS AT 24" O.C. MAX.
   B. WOOD STUD WALL: #10x2" LONG WOOD SCREW AT 16" O.C. MAX.

Detail Title :	REV: 09/21/2015	Detail No.
CEILING PERIMETER	REV: 03/10/2017	2.60
	REV: 03/2022	

IR 25-2
SUSPENDED LAY-IN PANEL CEILING: 2022 CBC

Detail Title :	REV: 09/21/2015	Detail No.
LUMINAIRE / AIR TERMINAL SUPPORT	REV: 03/2022	2.80

IR 25-2
SUSPENDED LAY-IN PANEL CEILING: 2022 CBC

NOTE:
DIMENSION "L" SHALL NOT EXCEED THE ALLOWABLE LENGTH GIVEN IN THE TABLE ON 3.21 FOR THE COMPRESSION STRUT SECTION USED.

Detail Title :	REV: 09/21/2015	Detail No.
COMPRESSION STRUT - CHANNEL TYPE	REV: 03/2022	3.10
	REV: 11/2023	

IR 25-2
SUSPENDED LAY-IN PANEL CEILING: 2022 CBC

NOTES:
1. MACHINE BOLT IS NOT REQUIRED ON OPTION 3.
2. OPTION 3 IS PERMITTED ONLY WHERE THE ROOF OR FLOOR STRUCTURE IS SAWN TIMBER WITHOUT GYPSUM BOARD.
3. DIMENSION "L" SHALL NOT TO EXCEED THE ALLOWABLE LENGTH GIVEN IN THE TABLE ON 3.21 FOR THE COMPRESSION STRUT USED.

Detail Title :	REV: 09/21/2015	Detail No.
COMPRESSION STRUT - EMT TYPE	REV: 03/2022	3.20
	REV: 11/2023	

IR 25-2
SUSPENDED LAY-IN PANEL CEILING: 2022 CBC

COMPRESSION STRUT EMT SECTION	MAXIMUM LENGTH
1/2" DIAMETER EMT (0.042" WALL THICKNESS)	3' - 11"
3/4" DIAMETER EMT (0.049" WALL THICKNESS)	6' - 4"
1" DIAMETER EMT (0.057" WALL THICKNESS)	9' - 9"
1 1/4" DIAMETER EMT (0.065" WALL THICKNESS)	12' - 9"
1 1/2" DIAMETER EMT (0.065" WALL THICKNESS)	14' - 9"
2" DIAMETER EMT (0.065" WALL THICKNESS)	18' - 10"

COMPRESSION STRUT CHANNEL SECTION	MAXIMUM LENGTH
250S125-33	5' - 10"
250S137-33	6' - 10"
362S137-33	8' - 0"
250S137-43	8' - 10"
400S137-43	10' - 10"

Detail Title :	REV: 09/21/2015	Detail No.
COMPRESSION STRUT TABLE	REV: 03/10/2017	3.21
	REV: 03/2022	

IR 25-2
SUSPENDED LAY-IN PANEL CEILING: 2022 CBC

Detail Title :	REV: 09/21/2015	Detail No.
HANGER AND BRACE WIRE CONNECTION - TYP. WIRE TURNS	REV: 03/2022	4.10

IR 25-2
SUSPENDED LAY-IN PANEL CEILING: 2022 CBC

STRUCTURAL SYSTEM OF FLOOR/ ROOF ABOVE SUSPENDED CEILING	APPLICABLE HANGER WIRE DETAIL	APPLICABLE BRACE WIRE DETAIL
SAWN TIMBER	4.25 & 4.29	4.35
WOOD I-JOIST	4.26	4.36 & 4.37

Detail Title :	REV: 09/21/2015	Detail No.
HANGER AND BRACE WIRE CONNECTION TABLE	REV: 03/2022	4.11
	REV: 11/2023	

IR 25-2
SUSPENDED LAY-IN PANEL CEILING: 2022 CBC

NOTE:
WHEN FIRE RATED GYP. BOARD IS INSTALLED ON THE BOTTOM FLANGES, USE SCREW EYES W/ SUFFICIENT LENGTH TO AVOID DAMAGING THE FIRE RATED GYP. BOARD AND MEET MIN. PENETRATION.

Detail Title :	REV: 09/21/2015	Detail No.
HANGER WIRE CONNECTION TO SAWN TIMBER	REV: 03/2022	4.25
	REV: 11/2023	

IR 25-2
SUSPENDED LAY-IN PANEL CEILING: 2022 CBC

NOTE:
WHEN FIRE RATED GYP. BOARD IS INSTALLED ON THE BOTTOM FLANGES, USE SCREW EYES W/ SUFFICIENT LENGTH TO AVOID DAMAGING THE FIRE RATED GYP. BOARD AND MEET MIN. PENETRATION.

Detail Title :	REV: 09/21/2015	Detail No.
HANGER WIRE CONNECTION TO WOOD I-JOIST	REV: 03/2022	4.26

IR 25-2
SUSPENDED LAY-IN PANEL CEILING: 2022 CBC

Detail Title :	REV: 09/21/2015	Detail No.
TYPICAL SADDLE TIE DETAIL	REV: 03/2022	4.29

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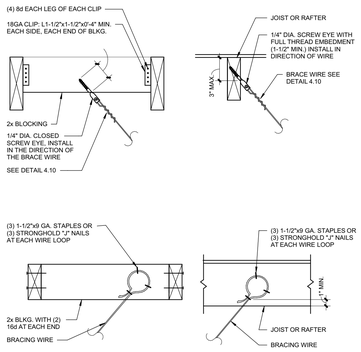
ACOUTICAL TILE
CEILING DETAILS

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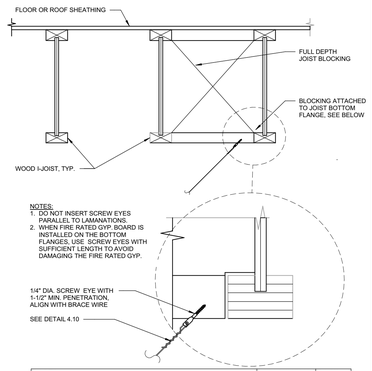
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SUSPENDED LAY-IN PANEL CEILING: 2022 CBC



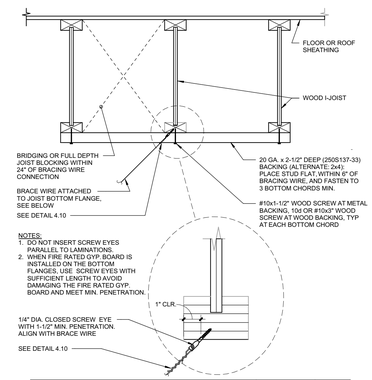
Detail Title :	REV: 09/21/2015	Detail No.
BRACE WIRE CONNECTION TO SAWN TIMBER	REV: 03/2022	4.35
	REV: 11/2023	

IR 25-2
SUSPENDED LAY-IN PANEL CEILING: 2022 CBC



Detail Title :	REV: 09/21/2015	Detail No.
BRACE WIRE CONNECTION TO WOOD I-JOIST	REV: 03/2022	4.36

IR 25-2
SUSPENDED LAY-IN PANEL CEILING: 2022 CBC



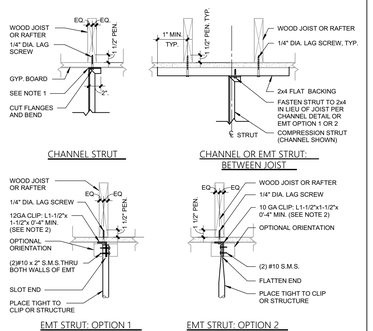
Detail Title :	REV: 09/21/2015	Detail No.
BRACE WIRE CONNECTION TO WOOD I - JOIST	REV: 03/2022	4.37

IR 25-2
SUSPENDED LAY-IN PANEL CEILING: 2022 CBC

STRUCTURAL SYSTEM OF FLOOR/ ROOF ABOVE SUSPENDED CEILING	APPLICABLE DETAIL
SAWN TIMBER WITH GYPSUM BOARD	5.50
SAWN TIMBER WITHOUT GYPSUM BOARD	5.51
WOOD I-JOIST	5.52

Detail Title :	REV: 09/21/2015	Detail No.
COMPRESSION STRUT CONNECTION TABLE	REV: 03/2022	5.10

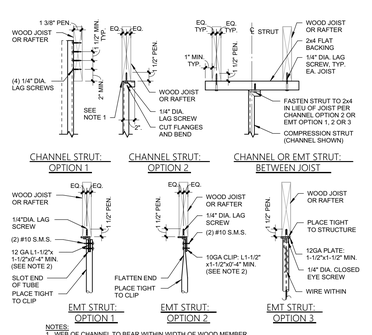
IR 25-2
SUSPENDED LAY-IN PANEL CEILING: 2022 CBC



NOTES:
1. WEB OF CHANNEL TO BEAR WITHIN WIDTH OF THE WOOD MEMBER.
2. FOR ANGLE ORIENTED IN THE STANDARD POSITION, VERTICAL LEG TO FALL WITHIN THE WIDTH OF THE WOOD MEMBER.
3. PEN. = MINIMUM PENETRATION OF LAG SCREW THREADS INTO THE WOOD MEMBER.
4. NO. 14 WOOD SCREW MAY BE USED IN LIEU OF 1/4" LAG SCREW.

Detail Title :	REV: 09/21/2015	Detail No.
STRUT CONNECTION TO SAWN TIMBER WITH GYPSUM BOARD	REV: 03/2022	5.50
	REV: 11/2023	

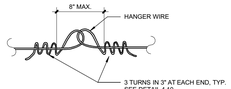
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SUSPENDED LAY-IN PANEL CEILING: 2022 CBC



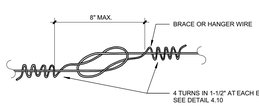
NOTES:
1. WEB OF CHANNEL TO BEAR WITHIN WIDTH OF WOOD MEMBER.
2. VERTICAL LEG OF MEMBER TO FALL WITHIN THE WIDTH OF THE WOOD MEMBER.
3. SEE DETAIL 5.50 FOR ADDITIONAL INFORMATION.
4. PEN. = MINIMUM PENETRATION OF LAG SCREW THREADS INTO THE WOOD MEMBER.
5. NO. 14 WOOD SCREW MAY BE USED IN LIEU OF 1/4" LAG SCREW.

Detail Title :	REV: 09/21/2015	Detail No.
STRUT CONNECTION TO SAWN TIMBER WITHOUT GYPSUM BOARD	REV: 03/2022	5.51
	REV: 11/2023	

IR 25-2
SUSPENDED LAY-IN PANEL CEILING: 2022 CBC



HANGER WIRE ONLY



HANGER OR BRACE WIRE

NOTES:
1. WIRE SPLICES ARE SHOWN LOOSELY TIED FOR ILLUSTRATIVE PURPOSES ONLY AND SHALL BE DRAWN TIGHT TO COMPLETE INSTALLATION WHEN CONSTRUCTED.
2. WIRE LOOPS SHALL BE TIGHTLY WRAPPED AND SHARPLY BENT TO PREVENT ANY VERTICAL MOVEMENT OR ROTATION WITHIN THE LOOPS.
3. EACH HANGER AND BRACE WIRE SHALL BE SPLICED NO MORE THAN ONCE ALONG ITS LENGTH.

Detail Title :	REV: 09/21/2015	Detail No.
CEILING WIRE SPLICES	REV: 03/2022	6.10

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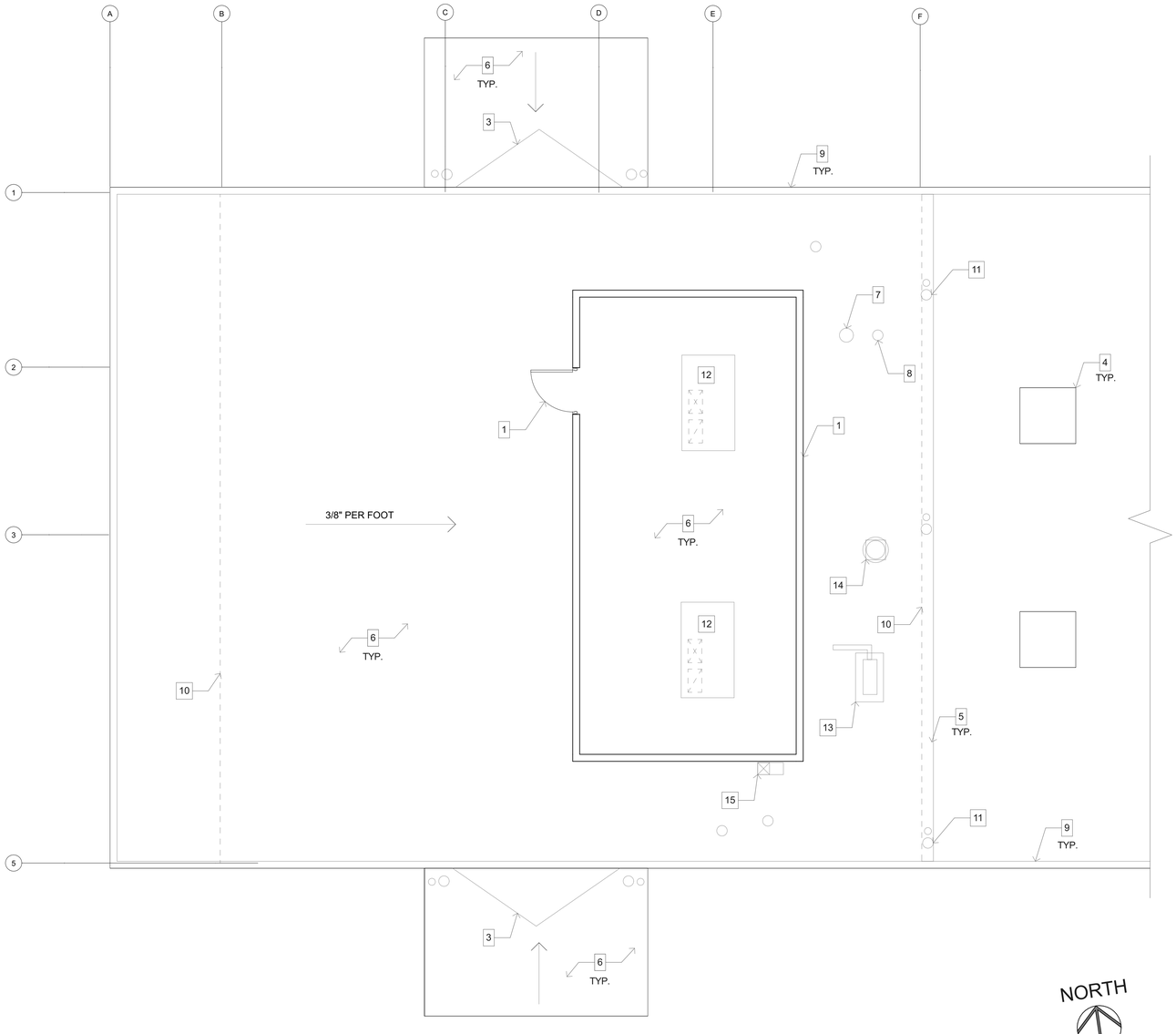
ACOUTICAL TILE CEILING DETAILS

A-704

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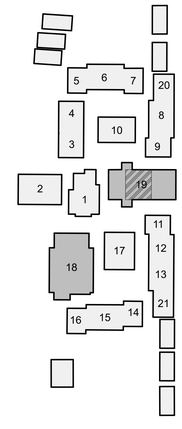
1 NEW WORK ROOF PLAN

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

KEYNOTES

1. EXISTING EQUIPMENT SCREEN TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.
2. EXISTING 3'-0" GATE TO REMAIN.
3. EXISTING CRICKET TO REMAIN.
4. EXISTING SKYLIGHT TO REMAIN.
5. EXISTING GUTTER TO REMAIN.
6. EXISTING MINERAL SURFACE BUILT-UP COMPOSITION ROOFING TO REMAIN.
7. EXISTING EXHAUST FAN TO REMAIN.
8. EXISTING PLUMBING VENT TO REMAIN.
9. EXISTING PARAPET TO REMAIN.
10. DASHED LINE INDICATES BUILDING LINE BELOW ROOF.
11. EXISTING ROOF DRAIN TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.
12. EXISTING A/C UNIT WITH CURB TO REMAIN. REFER TO MECHANICAL DRAWINGS FOR DUCT WORK. PATCH AND REPAIR EXISTING BUILT-UP COMPOSITION ROOFING AS NEEDED.
13. NEW CONDENSING UNIT WITH MECHANICAL CURB. REFER TO M2.2 AND DETAIL 3/A-802 .
14. NEW EXHAUST FAN. REFER TO M2.2.
15. NEW DUCT DTR. REFER TO MECHANICAL SHEET M2.2.

KEY PLAN



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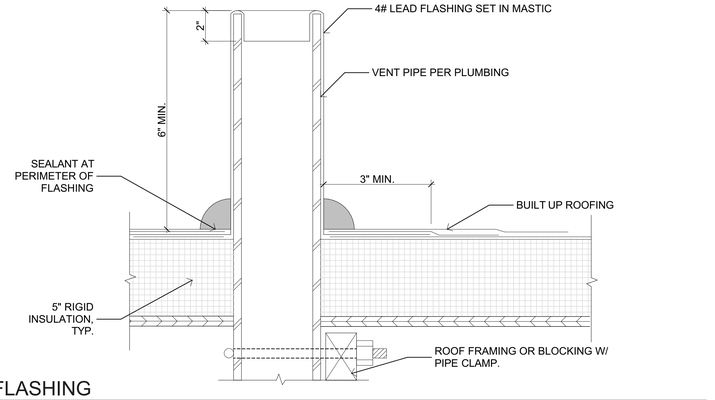
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NEW WORK ROOF PLAN

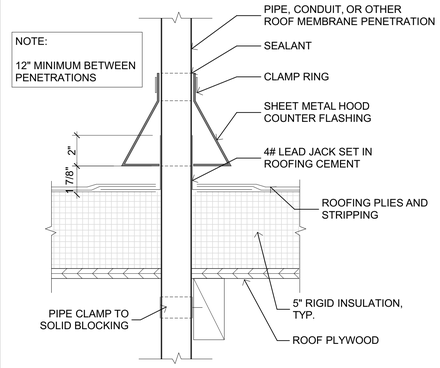
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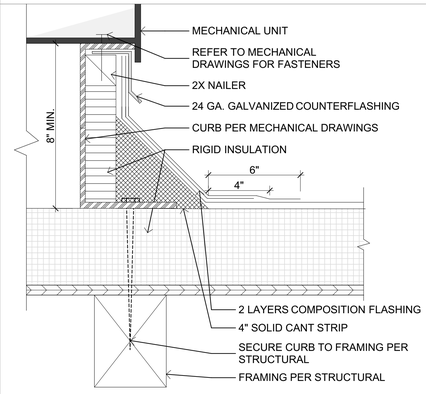
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1 VENT FLASHING
SCALE: 3" = 1'-0"



2 PIPE PENETRATION
SCALE: 3" = 1'-0"



3 MECHANICAL CURB
SCALE: 3" = 1'-0"

NOT USED

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SHEET TITLE

ROOF DETAILS

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FINISH SCHEDULE										
ROOM		FLOOR	BASE	WALLS					CEILING	
NAME	NUMBER			ELEV. 1	ELEV. 2	ELEV. 3	ELEV. 4	WAINSCOT	MAT.	HEIGHT
LIBRARY	19-1	F1	B1	W1/FN1	W1/FN1	W1/FN1	W1/FN1	N/A	C2	10'-0"
KITCHEN	19-2	F2	B2	W2/FN2	W2/FN2	W2/FN2	W2/FN2	WT1	C3	8'-0"
SERVING AREA	19-5	F2	B2	W2/FN2	W2/FN2	W2/FN2	W2/FN2	WT1	C3	8'-0"
CLOSET	19-6	F2	B2	W2/FN2	W2/FN2	W2/FN2	W2/FN2	WT1	C1	8'-0"

ROOM FINISH LEGEND

FLOOR
F1 CARPET
F2 6" QUARRY TILE

CEILINGS
C1 5/8" WATER RESISTANT GYP. BOARD
C2 ACOUSTIC TILE CEILING (24"x48")- GENERAL USE PER SPECS
C3 ACOUSTIC TILE CEILING (24"x48")- KITCHEN USE PER SPECS

FINISHES
FN1 TACK WALL COVERING
FN2 FIBER- REINFORCED PANELS

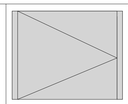
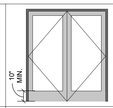
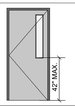
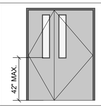
WALLS
W1 5/8" GYPSUM DRYWALL
W2 5/8" WATER RESISTANT GYP. BOARD

BASE
B1 4" RUBBER WALL BASE
B2 INTEGRAL COVE BASE

DOOR SCHEDULE

ROOM NUMBER	ROOM NAME	DOOR ID	DOOR TYPE	NOMINAL WIDTH	NOMINAL HEIGHT	LEAF THICKNESS	DOOR MATERIAL	DOOR FRAME MATERIAL	DETAIL		HDWR. SET	FIRE	REMARKS
									HEAD	JAMB			
19-6	CLOSET	01	A	2'-8"	6'-8"	1 3/4"	HM	HM	7/A-202	6/A-202	01	Unrated	
19-1	LIBRARY	02	B	3'-0"	2'-6"	1 3/4"	PLAM	N/A	N/A	N/A	N/A	Unrated	REFER TO 14/A-602
18-2	FOYER	E01	EA	6'-0"	7'-0"	1 3/4"	ALUM / GLASS	HM	N/A	N/A	02	Unrated	(E) DOOR IN POT
18-2	FOYER	E02	EB	3'-0"	7'-0"	1 3/4"	HM	HM	N/A	N/A	03	Unrated	(E) DOOR IN POT
18-5	WOMENS RR	E03	EB	3'-0"	7'-0"	1 3/4"	HM	HM	N/A	N/A	03	Unrated	(E) DOOR IN POT
18-2	FOYER	E04	EB	3'-0"	7'-0"	1 3/4"	HM	HM	N/A	N/A	03	Unrated	(E) DOOR IN POT
18-6	MENS RR	E05	EB	3'-0"	7'-0"	1 3/4"	HM	HM	N/A	N/A	03	Unrated	(E) DOOR IN POT
19-1	LIBRARY	E06	EC	3'-0"	7'-0"	1 3/4"	HM	HM	N/A	N/A	04	Unrated	(E) DOOR IN POT
19-1	LIBRARY	E07	EC	3'-0"	7'-0"	1 3/4"	HM	HM	N/A	N/A	04	Unrated	(E) DOOR IN POT
19-1	LIBRARY	E08	EC	3'-0"	7'-0"	1 3/4"	HM	HM	N/A	N/A	04	Unrated	(E) DOOR IN POT
19-3	BOYS RR	E09	ED	3'-0"	7'-0"	1 3/4"	HM	HM	N/A	N/A	03	Unrated	(E) DOOR IN POT
19-4	GIRLS RR	E10	ED	3'-0"	7'-0"	1 3/4"	HM	HM	N/A	N/A	03	Unrated	(E) DOOR IN POT
19-5	SERVING AREA	E11	EE	5'-0"	7'-0"	2"	HM	HM	N/A	N/A	02	Unrated	(E) DOOR IN POT
19-5	SERVING AREA	E12	EC	3'-0"	7'-0"	1 3/4"	HM	HM	N/A	N/A	02	Unrated	(E) DOOR IN POT

DOOR LEGEND

ELEVATION							
DOOR TYPE	A	B	EA	EB	EC	ED	EE
NOMINAL SIZE (W X H)	2'-8"×6'-8"	3'-0"×2'-6"	6'-0"×7'-0"	3'-0"×7'-0"	3'-0"×7'-0"	3'-0"×7'-0"	5'-0"×7'-0"
QUANTITY	1	1	1	4	4	2	1
POSITION	INTERIOR	INTERIOR	EXTERIOR	INTERIOR	EXTERIOR	EXTERIOR	EXTERIOR
THRESHOLD	20/A-202	20/A-202	19/A-202	20/A-202	19/A-202	19/A-202	19/A-202

GATE LEGEND

ELEVATION	
GATE TYPE	A
NOMINAL SIZE (W X H)	3'-0"×6'-8"
QUANTITY	1
REMARKS	16/A-103

GATE SCHEDULE

GATE ID	GATE TYPE	NOMINAL WIDTH	NOMINAL HEIGHT	GATE MATERIAL	HDWR. SET	FIRE
G01	A	3'-0"	6'-8"	STL	14/A-103	Unrated

GENERAL DOOR NOTES

1. ALL EXTERIOR DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF SPECIAL TOOLS, KNOWLEDGE, OR EFFORT.
2. HARDWARE SHALL BE LEVER TYPE WITH A RETURN TO WITHIN 1/2" OF THE DOOR.
3. THE ARCHITECT AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING REQUIRED DOOR AND FRAME DIMENSIONS AND HARDWARE MOUNTING HEIGHTS IN FIELD PRIOR TO ORDERING AND INSTALLING NEW MATERIAL.
4. ALL HARWARE INDICATED IN SCHEDULE SHALL BE PROVIDED FOR DOORS. HARDWARE SHALL MEET THE REQUIREMENTS OF CBC 11B-404.2.7.
5. DOOR JAMB AND HEAD CONDITIONS ARE DETAILED FOR THE MOST TYPICAL CONDITION. SIMILAR CONDITIONS MAY OCCUR AND SHALL BE TREATED IN A SIMILAR MANNER.
6. DOORS/DOORWAYS AS PART OF AN ACCESSIBLE ROUTE SHALL COMPLY WITH CBC SECTIONS 11B-404.
7. THE CLEAR OPENING WIDTH FOR A DOOR SHALL BE 32" MINIMUM. FOR A SWINGING DOOR IT SHALL BE MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP, WITH THE DOOR OPEN 90 DEGREES. THERE SHALL BE NO PROJECTIONS INTO IT BELOW 34" AND 4" MAXIMUM PROJECTIONS INTO IT BETWEN 34" AND 80" ABOVE THE FINISH FLOOR OR GROUND. CBC SECTION 11B-404.2.3
8. HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERABLE PARTS ON ACCESSBILE DOORS SHALL COMPLY WITH CBC SECTION 11B-309.4 AND SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. OPERABLE PARTS OF SUCH HARDWARE SHALL BE 34" MINIMUM AND 44" MAXIMUM ABOVE FINISH FLOOR OR GROUND. WHERE SLIDING DOORS ARE IN THE FULLY OPEN POSITION, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES. CBC SECTION 11B-404.2.7
9. THE FORCE FOR PUSHING OR PULLING OPEN A DOOR SHALL BE AS FOLLOWS: CBC SECTION 11B-404.2.9
   -INTERIOR HINGED DOORS, SLIDING OR FOLDING DOORS, AND EXTERIOR HINGED DOORS: 5 POUNDS (22.2 N) MAXIMUM. REQUIRED FIRE DOORS: THE MINIMUM OPENING FORCE ALLOWABLE BY THE DSA AUTHORITY, NOT TO EXCEED 15 POUNDS (66.7 N). THESE FORCES DO NOT APPLY TO THE FORCE REQUIRED TO RETRACT LATCH BOLTS OR DISENGAGED OTHER DEVICES THAT HOLD THE DOOR IN A CLOSED POSITION.
   -THE FORCE REQUIRED FOR ACTIVATING ANY OPERABLE PARTS, SUCH AS LEVER HARDWARE, OR DISENGAGING OTHER DEVICES SHALL BE 5 POUNDS (22.2 N) MAXIMUM TO COMPLY WITH CBC SECTION 11B-309.4
10. DOOR CLOSING SPEED SHALL BE AS FOLLOWS: CBC SECTION 11B-404.2.8
    -CLOSER SHALL BE ADJUSTED SO THAT THE REQUIRED TIME TO MOVE A DOOR FROM AN OPEN POSITION OF 90 DEGREES TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM.
    -SPRING HINGES SHALL BE ADJUSTED SO THAT THE REQUIRED TIME TO MOVE A DOOR FROM AND OPEN POSITION OF 70 DEGREES TO THE CLOSED POSITION IS 1.5 SECONDS MINIMUM.
11. THRESHOLDS SHALL COMPLY WITH CBC SECTION 11B-404.2.5
12. FLOOR STOPS SHALL NOT BE LOCATED IN THE PATH OF TRAVEL AND 4" MAXIMUM FROM WALLS.
13. ALL EMERGENCY EXIT AND PANIC HARDWARE SHALL COMPLY WITH SFM STANDARD 12-10-3, SECTION 12-10-302. 1) THE CROSS-BAR SHALL EXTEND ACROSS NOT LESS THAN ONE-HALF THE WIDTH OF THE DOOR/GATE AND 2) THE ENDS OF THE CROSS-BAR SHALL BE CURVED, GUARDED, OR OTHERWISE DESIGNED TO PREVENT CATCHING ON THE CLOTHING OF PERSONS DURING EGRESS. HARDWARE (INCLUDING PANIC HARDWARE) SHALL NOT BE PROVIDED WITH "NIGHT LATCH" (NL) FUNCTION FOR ANY ACCESSIBLE DOORS OR GATES UNLESS THE FOLLOWING CONDITIONS ARE MET: (SUCH CONDITIONS MUST BE CLEARLY DEMONSTRATED AND INDICATED IN THE SPECIFICATIONS)
    - SUCH HARDWARE HAS A "DOGGING" FEATURE.
    - IT IS DOGGED DURING THE TIME THE FACILITY IS OPEN.
    - SUCH "DOGGING" OPERATION IS PERFORMED ONLY BE EMPLOYEES AS THEIR JOB FUNCTION (NON-PUBLIC USE)
14. EXIT AND EXIT ACCESS DOORS FROM ROOMS HAVING AN OCCUPANT LOAD OF 50 OR MORE AND FROM CORRIDORS SHALL NOT BE PROVIDED WITH A LATCH OR LOCK UNLESS IT IS PANIC OR FIRE EXIT HARDWARE PER CBC 1010.2.9.

GENERAL FINISH NOTES

1. ALL FINISHES SHALL BE IN COMPLIANCE WITH CCR. TITLE 19, 2025 CALIFORNIA BUILDING CODE & 2025 CALIFORNIA FIRE CODE.
2. INTERIOR FINISH DECORATIVE MATERIALS AND FURNISHINGS SHALL COMPLY WITH 2025 C.F.C. SECTION 807.5.1 FOR GROUP 'A' OCCUPANCIES.
3. ALL FLOOR FINISHES SHALL BE STABLE, FIRM, AND SLIP RESISTANT. SEE SHEET FOR ALL TRANSITION DETAILS IF IT IS NOT A FLUSH TRANSITION BETWEEN ANY TWO ADJACENT FLOOR FINISHES.
4. ALL FLOOR FINISHED SHALL EXTEND BELOW WORKSTATIONS, SINKS, ETC. FOR THE REQUIRED TOW/KNEE CLEARANCE.

GENERAL DOOR NOTES

1. DOOR SHALL BE OPENABLE FROM INSIDE WITH A SINGLE MOTION WITHOUT THE USE OF ANY TOOLS, EFFORT, OR SPECIAL KNOWLEDGE.

DOOR SCHEDULE REMARKS

1. PANIC HARDWARE PROVIDED AT DOOR(S) PER SPECIFICATIONS.
2. PROVIDE LOUVER AT BOTTOM OF DOOR(S).
3. STOREFRONT SYSTEM
4. DOOR SIDELIGHT SHALL BE TINTED PER SPECIFICATIONS.
5. VISION PANES SHALL BE TINTED PER SPECIFICATIONS.

* SECURITY DOORS TO COMPLY WITH AB 3205 AND CBC 1010.2.8. DOORS SHALL INCLUDE LOCKS THAT ALLOW ROOMS WITH AN OCCUPANCY OF 5 OR MORE TO BE LOCKED FROM THE INSIDE.

* ALL FLOOR FINISHES SHALL BE STABLE, FIRM, AND SLIP RESISTANT. SEE SHEET A-202 FOR ALL TRANSITION DETAILS IF IT IS NOT A FLUSH TRANSITION BETWEEN ANY TWO ADJACENT FLOOR FINISHES. ALL FLOOR FINISHED SHALL EXTEND BELOW WORKSTATIONS, SINKS, ETC. FOR THE REQUIRED TOW/KNEE CLEARANCE.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124851 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/14/2026

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ARCHITECT OF RECORD

LICENSED ARCHITECT
PAUL R. GALLEGOS
No. C24063
EXP. 01/27
STATE OF CALIFORNIA

ENGINEER OF RECORD

LAKESIDE UNION SCHOOL DISTRICT

KITCHEN EXPANSION

LEMON CREST ELEMENTARY SCHOOL
12463 LEMON CREST DR.
LAKESIDE, CA 92040

LAKESIDE UNION SCHOOL DISTRICT
12335 WOODSIDE AVE LAKESIDE CA 92040

REVISIONS

MARK	DATE	DESCRIPTION
	4/14/2026	DSA V3 SUBMITTAL

PROJECT NO: #PIn
MODEL FILE:
25-0 LUSD Lemon Crest Kitchen Expansion.pln
PLOT DATE:
4/9/2026

SHEET TITLE

SCHEDULES

A-901

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ABBREVIATIONS

A.B.	ANCHOR BOLT	FDN.	FOUNDATION	ORNT.	ORIENTATE(ION)
ABV.	ABOVE	FIN.	FINISH(ED)	O.W.J.	OPEN WEB JOISTS
ADDTL.	ADDITIONAL	F.F.	FINISH FLOOR	O.W.J.	OPEN WEB STEEL JOISTS
ADJ.	ADJACENT	FLG.	FLANGE	PAR. (//)	PARALLEL
ALT.	ALTERNATE	FLR.	FLOOR	P/C	PRECAST CONCRETE
ARCH.	ARCHITECT	F.N.	FIELD (FACE) NAIL	PERP.	PERPENDICULAR
ARCHIL.	ARCHITECTURAL	F.O.C.	FACE OF CONCRETE	PL.	PLATE
BLW.	BELOW	F.O.M.	FACE OF MASONRY	PNL.	PANEL
B/F.	BRACED FRAME	F.O.S.	FACE OF STUD	P.S.F.	POUNDS PER SQUARE FOOT
BLDG.	BUILDING	F.O.W.	FACE OF WALL	P.S.I.	POUNDS PER SQUARE INCH
BLK.	BLOCK	FRM.	FRAME	P.T.	PRESSURE TREATED
BLKG.	BLOCKING	FRMG.	FRAMING	P.T.D.F.	PRESSURE TREATED DOUGLAS FIR
BM.	BEAM	F.S.	FAR SIDE	P/T	POSTTENSIONED
B.N.	BOUNDARY NAILING	FT (')	FOOT (FEET)	P/S	PRE-STRESSED
B.O.F.	BOTTOM OF FOOTING	FTDF	FIRE-RETARDANT TREATED DOUGLAS FIR	QTY.	QUANTITY
BR.	BRACE			RAD. (R)	RADIUS
BRDG.	BRIDGE(ING)	FTG.	FOOTING	REF.	REFERENCE
BRG.	BEARING	GA.	GAUGE	REINF.	REINFORCEMENT(ING)
(B)	BOTTOM	GALV.	GALVANIZED	REQ'D.	REQUIRED
BTWN.	BETWEEN	G.B.	GRADE BEAM	M.F.	MOMENT FRAME
C.	CAMBER(ED)	GLB	GLUED LAMINATED BEAM	R.O.	ROUGH OPENING
CANT.	CANTILEVERED	GR.	GRADE	SCH.	SCHEDULE
C.F.	CUBIC FEET(/FOOT)	GYP	GYPSUM WALLBOARD	SEIS.	SEISMIC
CFS	COLD-FORMED STEEL	HD	HOLD DOWN	SHR.	SHEAR
C.G.	CENTER OF GRAVITY	HDR.	HEADER	SHT.	SHEET
C.I.P.	CAST IN PLACE	HGR.	HANGER	SHTG.	SHEATHING
C.J.	CONSTRUCTION JOINT	HORIZ.	HORIZONTAL	SIM.	SIMILAR
C.L.	CENTER LINE	(H)	HORIZONTAL	SKW.	SKEW(ED)
CLG.	CEILING	HSB	HIGH STRENGTH BOLT	SMS	SHEET METAL SCREWS
CLR.	CLEAR	HSS	HOLLOW STRUCTURAL SECTION	SPEC.	SPECIFICATION(S)
CMU	CONC. MASONRY UNIT	HT.	HEIGHT	SQ.	SQUARE
COL.	COLUMN	I.D.	INSIDE DIAMETER	SS	SELECT STRUCTURAL
CONC.	CONCRETE	I.E.	INVERT ELEVATION	STD.	STANDARD
CONN.	CONNECTION	I.F.	INSIDE FACE	STG.	STRONG
CONSTR.	CONSTRUCTION	IN (")	INCH(S)	STGR.	STAGGER(ED)
CONT.	CONTINUOUS	INT.	INTERIOR	STIFF.	STIFFENER(S)
CTSK	COUNTERSINK	JST.	JOIST	STIR.	STIRRUP(S)
CTR	CENTER(ED)	JT.	JOINT	STL.	STEEL
C.Y.	CUBIC YARD	K	KIPS(1000)	STRUC.	STRUCTURAL
¢	PENNY(NAILS)	LAT.	LATERAL	STS	SELF-DRILLING (SELF-TAPPING) SCREWS
DBL.	DOUBLE	LB(#)	POUNDS		
D.F.	DOUGLAS FIR	LDGR.	LEDGER	SUSP	SUSPENDED
DIA.	DIAMETER	L.F.	LINEAL FEET(/FOOT)	SYM.	SYMMETRICAL
DIAG	DIAGONAL	LONG.	LONGITUDINAL	T & B	TOP AND BOTTOM
DIAPH.	DIAPHRAGM	LGTH.	LENGTH	TEMP.	TEMPERATURE
DIM.	DIMENSION	LLH	LONG LEG HORIZ.	T & G	TONGUE AND GROOVE
DN.	DOWN	LLV	LONG LEG VERT.	THK.	THICK(NESS)
DP (D)	DEEP(DEPTH)	LT. WT.	LIGHT WEIGHT	THRD.	THREADED
DWG.	DRAWING(S)	L.S.	LAG SCREW	TEMP.	TEMPORARY
DWL.	DOWEL(S)	MAS.	MASONRY	T.N.	TOE NAIL
E.F.	EACH FACE	MAT'L.	MATERIAL	T.O.C.	TOP OF CONCRETE
E.J.	EXPANSION JOINT	MAX.	MAXIMUM	T.O.F.	TOP OF FOOTING
ELEV.	ELEVATION	M.B.	MACHINE BOLT	T.O.P.	TOP OF PARAPET
ELEC.	ELECTRICAL	MECH.	MECHANICAL	T.O.S.	TOP OF SHEATHING
EMBED.	EMBEDMENT	MEZZ.	MEZZANINE	T.S.	TOP OF STEEL
E.N.	EDGE NAIL	MFR.	MANUFACTURER	T.O.W.	TOP OF WALL
ENG.	ENGINEER	MISC.	MISCELLANEOUS	TRANS.	TRANSVERSE
E.O.D.	EDGE OF DECK	MTL.	METAL	TYP.	TYPICAL
E.O.S.	EDGE OF SLAB	(N)	NEW	U.O.N.	UNLESS OTHERWISE NOTED
EQ.	EQUAL	NO (#)	NUMBER	VERT. (V)	VERTICAL
EQPT.	EQUIPMENT	N.S.	NEAR SIDE	V/F	VERIFY IN FIELD
E.S.	EDGE SCREW	N.T.S.	NOT TO SCALE	W/	WITH
E.W.	EACH WAY	NWT.	NORMAL WEIGHT	WD.	WOOD
EXP.	EXPANSION	O.C.	ON CENTER	W.F.	WIDE FLANGE
EXIST.	EXISTING	O.D.	OUTSIDE DIAMETER	W.P.	WORK POINT
(E)	EXISTING	O.F.	OUTSIDE FACE	WP.)	WEAKENED PLANE JOINT
EXT.	EXTERIOR	O.H.	OPPOSITE HAND	W.S.	WOOD SCREW(S)
FAB.	FABRICATION	OPNG	OPENING	WT.	WEIGHT
				WWF	WELDED WIRE FABRIC
				X-STG	EXTRA STRONG
				XX-STG	DOUBLE EXTRA STRONG

SPECIAL INSPECTIONS & TESTING (CBC CHAPTER 17A)

1. SPECIAL INSPECTIONS & TESTING SHALL MEET THE REQUIREMENTS OF CBC CHAPTER 17A TITLE 24, PART 2, CCR.
2. PROJECT INSPECTOR OF RECORD: IN ACCORDANCE WITH TITLE 24, PART 1.
3. CERTIFIED SPECIAL INSPECTORS SHALL:
   A. BE CERTIFIED BY DSA TO PERFORM THE TYPES OF INSPECTIONS SPECIFIED.
   B. PREPARE REPORTS THAT SHALL BE SIGNED BY A CALIFORNIA REGISTERED CIVIL ENGINEER.
   C. OBSERVE THE WORK ASSIGNED FOR CONFORMANCE WITH APPROVED DRAWINGS AND SPECIFICATIONS.
   D. FURNISH INSPECTION REPORTS TO THE ENGINEER AND DSA. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION; THEN, IF NOT CORRECTED, TO THE ENGINEER AND DSA PER CBC SECTION 1704A.2.4.
   E. SUBMIT TO THE ENGINEER AND DSA A FINAL VERIFIED REPORT, SIGNED BY A CALIFORNIA REGISTERED CIVIL ENGINEER, STATING THAT THE WORK WAS IN CONFORMANCE WITH THE APPROVED DRAWINGS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF CBC TITLE 24, PART 2, CCR.
4. SUMMARY OF CONTINUOUS AND PERIODIC INSPECTIONS:
   A. SPECIAL INSPECTIONS ARE IN ADDITION TO THE CALLED INSPECTIONS REQUIRED BY CAC SECTION 4-342, TITLE 24, PART 1, CCR. SPECIAL INSPECTION IS NOT A SUBSTITUTE FOR INSPECTION BY DSA. SPECIALLY INSPECTED WORK WHICH IS INSTALLED OR COVERED WITHOUT THE APPROVAL OF DSA IS SUBJECT TO REMOVAL OR EXPOSURE.
   B. CONTINUOUS INSPECTION IS REQUIRED DURING THE PERFORMANCE OF THE WORK UNLESS OTHERWISE SPECIFIED.
   C. IT IS THE RESPONSIBILITY OF THE PROJECT INSPECTOR TO INFORM THE SPECIAL INSPECTOR OR INSPECTION AGENCY AT LEAST ONE WORKING DAY BEFORE PERFORMING ANY WORK THAT REQUIRES SPECIAL INSPECTION. ALL WORK PERFORMED WITHOUT REQUIRED SPECIAL INSPECTION IS SUBJECT TO REMOVAL.
5. SEE DSA-103 DOCUMENT FOR LIST OF REQUIRED INSPECTIONS. THIS DOCUMENT SHALL BE CONSIDERED PART OF THE CONSTRUCTION DOCUMENTS.
6. REFER TO DSA-103 FOR ALL STRUCTURAL TESTING & SPECIAL INSPECTION REQUIREMENTS. IN THE EVENT OF A CONFLICT BETWEEN THE DRAWINGS, SPECIFICATIONS, AND DSA-103 FORM, THE MORE STRINGENT REQUIREMENTS SHALL APPLY.

STRUCTURAL OBSERVATION (CBC CHAPTER 17A)

1. DEFINITION: THE VISUAL OBSERVATION OF THE STRUCTURAL SYSTEM, BY A REGISTERED DESIGN PROFESSIONAL FOR GENERAL CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS, AT SIGNIFICANT CONSTRUCTION STAGES AND AT COMPLETION OF THE STRUCTURAL SYSTEM. STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR THE INSPECTIONS REQUIRED BY CAC CHAPTER 4, GROUP 1, ARTICLE 6, AND CHAPTER 17A TITLE 24, CCR OR OTHER SECTIONS OF THE CODE.
2. IN ACCORDANCE WITH CBC SECTION 1704A.6, TITLE 24, CCR THE ENGINEER REQUIRES OBSERVATION DURING CONSTRUCTION OF THE FOLLOWING:
   A. FINAL FRAMING
      ALL REVISIONS TO PLANS
3. NOTIFICATION: 48 HOURS BEFORE REQUIRED OBSERVATION. DELINQUENT NOTIFICATION MAY REQUIRE DEMOLITION OF COVERED MATERIALS FOR OBSERVATION.
4. THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE BUILDING OFFICIAL A DSA 6-AE FINAL VERIFIED REPORT AT THE COMPLETION OF THE PROJECT.

WOOD (CBC CHAPTER 23)

1. ALL WOOD MEMBERS SHALL BE DOUGLAS FIR (DF) OR LARCH GRADE MARKED BY A RECOGNIZED GRADING AGENCY (WCLIB & WWPA) THAT HAS BEEN APPROVED BY AN ACCREDITATION BODY THAT COMPLIES WITH DOC PS20 OR EQUIVALENT.
2. WOOD GRADES:
   A. FOR HORIZONTAL MEMBERS:
      2 X 4 SUB-PURLINS: .....GRADE #1 (FOR PANELIZED CONSTRUCTION)
      3 X & LARGER BEAMS & HEADERS: .....GRADE #1
      2 X: .....GRADE #2
   B. FOR VERTICAL MEMBERS:
      2 X & 3 X STUDS: .....GRADE #2
      4 X & LARGER STUDS OR POSTS .....GRADE #1
3. APA RATED SHEATHING CONFORMING TO APA STANDARD PS-1 OR PS-2 SHALL BE USED FOR FLOOR, ROOF, AND WALL SHEATHING IN ACCORDANCE WITH CBC SECTION 2303.1.5, TITLE 24, PART 2, CCR. PLYWOOD AND OSB SHALL COMPLY WITH DSA IR 23-6.
4. NOTCHING AND BORING OF STUDS AND JOISTS SHALL BE PERMITTED ONLY AS DETAILED OR APPROVED BY THE ENGINEER.
5. AS A MINIMUM, ALL NAILING SHALL BE WITH COMMON NAILS, EXCEPT AS NOTED IN CBC TABLE 2304.10.2.
6. 10d COMMON NAILS (0.148" DIA x3") SHALL BE USED FOR ATTACHMENT OF ROOF SHEATHING WITH MINIMUM 1 1/2" PENETRATION INTO FRAMING MEMBER.
7. ALL SILLS OR PLATES RESTING ON CONCRETE OR MASONRY, WHICH IS IN CONTACT WITH EARTH OR RESTING ON FOUNDATIONS, SHALL BE PRESSURE TREATED DOUGLAS FIR. NEWLY EXPOSED SURFACES RESULTING FROM FIELD CUTTING, BORING OR HANDLING SHALL BE FIELD TREATED IN ACCORDANCE WITH AWPA M-4.
8. BOLTS: ALL BOLT HOLES IN WOOD SHALL BE DRILLED 1/32" DIAMETER LARGER THAN NOMINAL BOLT DIAMETERS. BOLTS IN WOOD SHALL NOT BE LESS THAN 7 DIAMETERS FROM THE END AND 4 DIAMETERS FROM THE EDGE OF THE MEMBER. THREAD PROJECTION SHALL BE 1/16 INCH MINIMUM. ALL NUTS SHALL BE TIGHTENED WHEN INSTALLED AND RE-TIGHTENED AT THE COMPLETION OF WORK OR BEFORE CLOSING IN.
9. MACHINE BOLT ANCHOR BOLTS SHALL BE PROVIDED WITH FULL BODY DIAMETER AS FOLLOWS:

NOMINAL SIZE (INCHES)		BODY OR SHANK DIAMETER (INCHES)	
		MAX	MIN
1/2	0.500	0.515	0.482
5/8	0.625	0.642	0.605
3/4	0.750	0.768	0.729
7/8	0.875	0.895	0.852
1	1.000	1.022	0.976

   A. ADOPTED FROM ANSI B18.2.1.
   B. FOR BOLT DIAMETERS NOT INDICATED, REFER TO ASME B18.2.1 AND B18.2.6.
   C. THE BODY AND SHANK OF A BOLT IS THE SMOOTH PORTION BETWEEN THE HEAD AND THE THREADS.
10. LAG SCREWS: SHALL BE FULL BODY DIAMETER ACCORDING TO ANSI B18.2.1 PRE-DRILL LEAD WITH A BIT SIZE OF 40% TO 70% OF THE SHANK DIAMETER FOR THE THREADED PORTION. CLEARANCE HOLE TO BE THE SAME LENGTH AND DIAMETER AS THE UN-THREADED SHANK. LUBRICATE LAGS AND SCREW INTO PLACE.
11. WOOD SCREWS SHALL BE CUT THREAD ACCORDING TO ANSI B18.6.1
12. WASHERS: ALL BOLT HEADS, LAG SCREWS AND NUTS BEARING ON WOOD SHALL HAVE STANDARD CUT WASHERS. SEE SHEARWALL SCHEDULE FOR ADDITIONAL SILL PLATE WASHER REQUIREMENTS.
13. ALL FRAMING ANCHORS, POST CAPS, BASES, HANGERS, STRAPS, ETC., SHALL BE AS MANUFACTURED BY "SIMPSON STRONG-TIE COMPANY" LATEST CATALOG OR ENGINEER APPROVED EQUAL. SUBMIT LOAD COMPARISONS WITH CATALOG AND ICC REPORTS TO THE ENGINEER FOR APPROVAL.
14. PROVIDE FULL DEPTH BLOCKING OR BRIDGING NOT EXCEEDING 8 FEET ON CENTER FOR ALL 2X12 JOISTS AND RAFTERS AND PER CBC SECTION 2308.4.6.
15. TOP PLATES OF ALL WOOD STUD WALLS TO BE 2-2X MINIMUM (SAME WIDTH AS STUDS), LAP 48" (MINIMUM), WITH NOT LESS THAN 6-16D NAILS AT EACH LAP AND NOT MORE THAN 12" BETWEEN NAILS.
16. MOISTURE CONTENT OF WOOD AT TIME OF PLACING SHALL NOT EXCEED 19%.
17. OVER DRIVING OF NAILS THROUGH SHEARWALL, ROOF, OR FLOOR SHEATHING IS NOT ALLOWED. NAILS SHALL BE DRIVEN SO THAT THE HEADS ARE FLUSH WITH THE SURFACE OF SHEATHING.
18. MACHINE APPLIED NAILING TO WOOD FRAMING OR PLYWOOD: SUBJECT TO SATISFACTORY JOB SITE DEMONSTRATION FOR THIS PROJECT AND APPROVAL BY THE ENGINEER AND DSA. IF NAIL-HEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR HAND HAMMER OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED, THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY AND MACHINE NAILING SHALL BE DISCONTINUED.
19. GLUED FLOORS: FIELD GLUE TO ALL SUPPORTS AND T&G EDGES PER APA SPECIFICATION, AFG-01. FRAMING SHALL BE FREE OF SURFACE MOISTURE & DEBRIS PRIOR TO GLUING.
20. WHERE ADJACENT WALLS ARE SHEATHED, PROVIDE SHEATHING OVER AND UNDER OPENINGS AND REMAINDER OF UNSHEATHED WALLS.
21. FASTENERS, NAILS AND CONNECTORS IN CONTACT WITH PRESERVATIVE TREATED WOOD SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A-653 HOT DIPPED ZINC COATED GALVANIZED OR SHALL BE STAINLESS STEEL.
22. WHEN HARDWARE THAT REQUIRES 10d x 1 1/2" NAILS ARE INSTALLED OVER SHEATHING. THE LENGTH OF THE NAILS USED SHALL BE INCREASED BY THE THICKNESS OF THE SHEATHING.
23. STRUCTURAL COMPOSITE LUMBER TO BE MANUFACTURED BY RED BUILT LLC, AND MEET THE REQUIREMENTS OF ICC ESR-2993. GRADE SHALL BE 2.0E-2900Fb.

FOUNDATION (CBC CHAPTER 18A)

1. THE SOILS REPORT RECOMMENDATIONS SHALL BE COMPLIED WITH BY THE CONTRACTOR.
2. SOILS INFORMATION: 2022 CBC TABLE 1806A.2
   SOIL DESIGN PARAMETERS:
   ALLOWABLE BEARING PRESSURE.....1500 PSF
   MINIMUM SPREAD FOOTING WIDTH..... 18 INCHES
   BOTTOM OF FOOTINGS SHALL BE AT LEAST 18 INCHES BELOW LOWEST ADJACENT FINISHED GRADE.
3. ALL FOUNDATION WORK SHALL BE FOUNDED ON FIRM UNDISTURBED NATURAL SOILS OR APPROVED COMPACTED SOILS.
4. THE FINISH EXCAVATION FOR FOUNDATIONS SHALL BE NEAT & TRUE TO LINE.
5. FOUNDATION EXCAVATIONS SHALL BE KEPT FREE OF LOOSE MATERIAL AND STANDING WATER.

REINFORCING STEEL

1. BAR REINFORCEMENT SHALL BE ASTM A615, GRADE 60 DEFORMED BARS.
2. MINIMUM LAP SPLICES OF REINFORCING BARS SHALL BE AS SPECIFIED IN THE DRAWINGS.
3. REINFORCING DETAILING, BENDING, AND PLACING SHALL BE IN ACCORDANCE WITH ACI 315 "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT".
4. REINFORCING STEEL SHALL BE PROVIDED WITH THE FOLLOWING MINIMUM CONCRETE COVER FOR CAST IN PLACE CONCRETE:
   A. CONCRETE DEPOSITED AGAINST EARTH:..... 3"
   B. CONCRETE SURFACE (FORMED) EXPOSED TO EARTH OR WEATHER:
      #6 THROUGH #18 BARS:..... 2"
      #5 BAR AND SMALLER:..... 1-1/2"
   C. CONCRETE NOT EXPOSED TO EARTH OR WEATHER:
      SLABS, WALLS AND JOISTS
      #11 BAR AND SMALLER:..... 1"
      BEAMS, COLUMNS:
      PRIMARY REINFORCEMENT, TIES,STIRRUPS, SPIRALS:..... 1-1/2"
10. ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS, HOLDOWN ANCHORS AND INSERTS SHALL BE WELL SECURED IN POSITION WITH WIRE POSITIONERS PRIOR TO FOUNDATION INSPECTION AND BEFORE PLACING CONCRETE OR GROUT.
11. FURNISH #3 SPACER TIES AT APPROXIMATELY 2'-6" ON CENTER IN ALL BEAMS AND FOOTINGS TO SECURE REINFORCING IN PLACE.
12. CONTRACTOR SHALL SUBMIT REINFORCING STEEL SHOP DRAWINGS FOR REVIEW BEFORE FABRICATION AND INSTALLATION.
13. WHERE HOOKS ARE ILLUSTRATED AS 90-DEGREE HOOKS, 180 DEGREE HOOKS MAY BE USED IN LIEU OF 90-DEGREE HOOKS.

CONCRETE-EPOXY ANCHORED REINFORCEMENT & THREADED RODS

1. SPECIAL INSPECTION IS REQUIRED.
2. MATERIALS: (ICC ESR 3814)
   EPOXY ADHESIVE:..... HILTI.....HIT RE-500V3
3. INSTALLATION OF REINFORCEMENT AND THREADED RODS:
   A. SHALL BE IN ACCORDANCE WITH ICC ESR 3814.
   B. USE CARBIDE-TIPPED DRILL BITS CONFORMING TO ANSI B212.15.
   C. CLEAN HOLES OF DUST AND DEBRIS USING OIL-FREE COMPRESSED AIR AND A STEEL WIRE BRUSH FOR STANDARD EQUIPMENT AND ANCHORS.
   D. NO CLEANING OF HOLES IS REQUIRED WITH 'HILTI SAFESET' SYSTEM USING HIT-Z OR HIT-Z-R ANCHORS.
4. DO NOT INSTALL REINFORCEMENT OR ANCHORS IN CONCRETE THAT IS LESS THAN 21 DAYS OLD.
5. ANCHORS SHALL BE TENSION TESTED. SEE DETAILS FOR TESTING VALUES.
6. TESTING AND INSPECTIONS SHALL MEET THE REQUIREMENTS OF CBC SECTION 1910A.5.
7. TESTING SHALL NOT OCCUR UNTIL AFTER EPOXY HAS CURED. SEE MANUFACTURER DATA FOR CURE TIME BASED ON CONCRETE TEMPERATURE
8. ANCHORS SHALL BE USED ONLY WHERE SPECIFICALLY INDICATED ON PLANS AND DETAILS.

REINFORCED CONCRETE (CBC CHAPTER 19A)

1. CEMENT SHALL CONFORM TO ASTM C150, TYPE II.
2. AGGREGATES FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C33 AND SECTION 1903A.5, TITLE 24, PART 2, CCR.
3. AGGREGATES FOR LIGHT WEIGHT CONCRETE SHALL CONFORM TO ASTM C330.
4. READY-MIX CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH ASTM C94.
5. CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", EXCEPT AS MODIFIED BY THESE NOTES.
6. CONCRETE SHALL BE STANDARD WEIGHT CONCRETE (145 PCF) AND HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS AS FOLLOWS:

ELEMENT	STRENGTH	AGG	W/C RATIO (MAX)	TYPE
PAD FOOTINGS	3000 PSI	1"	.57	NWT
SLAB ON GRADE	3000 PSI	1"	.45	NWT

7. CONCRETE SHALL BE PROPORTIONED SUCH THAT THE 7 DAY STRENGTHS ARE A MINIMUM OF SEVENTY PERCENT OF THE SPECIFIED 28 DAY STRENGTH FOR ANY CONCRETE CONSTRUCTION REQUIRING SHORING, BRACING OR TO RECEIVE CONSTRUCTION LOADS. ALSO, SLABS ON GRADE SHALL HAVE A COMPRESSION STRENGTH OF 1800 PSI MINIMUM AT 3 DAYS IF SUBJECT TO CONSTRUCTION TRAFFIC.
8. ADMIXTURES MAY BE USED WITH PRIOR APPROVAL OF THE ENGINEER AND DSA. ADMIXTURES SHALL COMPLY WITH ASTM C494 & C1017 AND BE OF A TYPE THAT INCREASES THE WORKABILITY OF THE CONCRETE, BUT SHALL NOT BE CONSIDERED TO REDUCE THE SPECIFIED MINIMUM CEMENT CONTENT (CALCIUM CHLORIDE SHALL NOT BE USED).
9. ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS, HOLDOWN ANCHORS AND INSERTS SHALL BE WELL SECURED IN POSITION WITH WIRE POSITIONERS PRIOR TO FOUNDATION INSPECTION AND BEFORE PLACING CONCRETE.
10. CONCRETE CURING: SEE SPECIFICATIONS.
11. NO CONDUIT PLACED IN A CONCRETE SLAB SHALL HAVE AN OUTSIDE DIAMETER GREATER THAN 1/3 THE THICKNESS OF THE SLAB. NO CONDUIT SHALL BE EMBEDDED IN A SLAB THAT IS LESS THAN 3 1/2" THICK. EXCEPT FOR LOCAL OFFSETS, MINIMUM CLEAR DISTANCE BETWEEN CONDUITS SHALL BE THREE DIAMETERS ON CENTER.
12. PROJECTING CORNERS OF SLABS, BEAMS, WALLS, COLUMNS, ETC., SHALL BE FORMED WITH A 3/4" CHAMFER.
13. REFER TO DRAWINGS OF OTHER DISCIPLINES FOR MOLDS, GROOVES, CLIPS, ORNAMENTS, OR GROUNDS REQUIRED TO BE CAST INTO CONCRETE.
14. CONTRACTOR SHALL SUBMIT MIX DESIGNS FOR REVIEW BEFORE FABRICATION AND INSTALLATION. MIX DESIGNS SHALL BE DESIGNED AND SIGNED BY A CALIFORNIA REGISTERED PROFESSIONAL ENGINEER.
15. CONCRETE TESTING SHALL CONFORM TO SECTION 1903A, TITLE 24, PART 2, CCR.

GENERAL NOTES

1. NOTES AND DETAILS ON THE STRUCTURAL DRAWINGS TAKE PRECEDENCE OVER THESE STANDARD STRUCTURAL NOTES. TYPICAL DETAILS SHALL BE USED WHENEVER APPLICABLE. REFER TO SPECIFICATIONS FOR INFORMATION NOT COVERED BY THESE NOTES OR DRAWINGS. THESE NOTES TAKE PRECEDENCE OVER ANY OTHER BOOK SPECIFICATIONS.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS; ELEVATIONS, AND SITE CONDITIONS BEFORE STARTING WORK, AND THE ENGINEER/ ARCHITECT SHALL BE IMMEDIATELY NOTIFIED, IN WRITING, OF ANY DISCREPANCIES. IN NO CASE SHALL DIMENSIONS BE SCALED FROM PLANS, SECTIONS, OR DETAILS ON THE STRUCTURAL DRAWINGS.
3. ALL OMISSIONS AND CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF, AND RESOLVED WITH, THE ENGINEER BEFORE PROCEEDING WITH ANY WORK SO INVOLVED.
4. WHERE A CONSTRUCTION DETAIL IS NOT SHOWN OR NOTED, THE DETAIL SHALL BE THE SAME AS FOR OTHER SIMILAR WORK.
5. THE CONTRACTOR SHALL DETERMINE THE LOCATION OF UTILITY SERVICES IN THE AREA TO BE EXCAVATED, BEFORE BEGINNING EXCAVATION
6. NO PIPES, DUCTS, SLEEVES, CHASES, ETC. SHALL BE PLACED IN SLABS, BEAMS, OR WALLS, NOR SHALL ANY STRUCTURAL MEMBER BE CUT FOR PIPES, DUCTS, ETC. THE CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FOR INSTALLATION OF ANY ADDITIONAL PIPES, DUCTS, ETC.
7. ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO THE REQUIREMENTS OF THE 2022 CALIFORNIA BUILDING CODE (CBC), TITLE 24, PART 2, CCR WITH CALIFORNIA AMENDMENTS .
8. THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE ENGINEER FREE AND HARMLESS FROM ALL CLAIMS, DEMANDS AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT.
9. RETAIN A CALIFORNIA REGISTERED CIVIL ENGINEER TO DESIGN ALL TEMPORARY BRACING, SHORING, AND SUPPORT REQUIRED DURING CONSTRUCTION, INCLUDING CONSTRUCTION LOADS AND EQUIPMENT.
10. INCLUDE ENGINEERING FEES, ENGINEERING DESIGN TIME AND DSA APPROVAL TIME IN THE COST OF PROPOSED MATERIAL ALTERNATES. CONTACT ENGINEER FOR FEE AMOUNT. SUBMIT MATERIAL ALTERNATE FOR REVIEW BEFORE CONSTRUCTION.
11. STRUCTURAL CAD DRAWINGS SHALL NOT BE USED FOR SHOP DRAWINGS UNLESS AN AGREEMENT BETWEEN THE STRUCTURAL ENGINEER AND CONTRACTOR HAS BEEN ESTABLISHED ACCORDING TO CASE DOCUMENT 11. CONTACT ENGINEER FOR FEE AMOUNT.
12. ALL ADDENDA AND CONSTRUCTION CHANGE DOCUMENTS (CCD) SHALL BE SUBMITTED TO DSA FOR APPROVAL PRIOR TO COMPLETING WORK.
13. SHOP DRAWINGS: THE CONTRACTOR SHALL REVIEW SHOP DRAWINGS FOR COMPLETENESS AND COMPLIANCE WITH CONTRACT DOCUMENTS. CONTRACTOR SHALL STAMP SHOP DRAWINGS PRIOR TO SUBMISSION TO ARCHITECT/ENGINEER. THE ARCHITECT'S/ENGINEER'S REVIEW OF THE SHOP DRAWINGS SHALL NOT BE CONSTRUED AS AN AUTHORIZATION TO DEVIATE FROM THE CONTRACT DOCUMENTS. ALSO, SHOP DRAWINGS WILL NOT BE PROCESSED DUE TO INCOMPLETENESS, LACK OF COORDINATION WITH RELEVANT PORTIONS OF CONTRACT DOCUMENTS, LACK OF CALCULATIONS WHEN REQUIRED, OR WHERE DEVIATIONS, MODIFICATIONS, OR SUBSTITUTIONS ARE INDICATED WITHOUT PRIOR WRITTEN APPROVAL FROM THE ARCHITECT/ENGINEER.
14. ANY REFERENCE TO THE WORDS APPROVED, OR APPROVAL IN THESE DOCUMENTS SHALL BE HERE DEFINED TO MEAN GENERAL ACCEPTANCE OR REVIEW AND SHALL NOT RELIEVE THE CONTRACTOR AND/OR HIS SUB-CONTRACTORS OF ANY LIABILITY IN FURNISHING THE REQUIRED MATERIALS OR LABOR SPECIFIED.
15. CONNECTION OF ALL ITEMS SUPPORTED BY THE STRUCTURE ARE THE RESPONSIBILITY OF THE DISCIPLINES WHO ARE MAKING THESE ATTACHMENTS. THESE ATTACHMENTS SHALL BE DESIGNED TO RESIST ALL GRAVITY, WIND, SEISMIC, THERMAL LOADS, ETC. SPRINKLER PIPING SHALL BE SUPPORTED AND BRACED PER APPLICABLE STANDARDS. SUSPENDED CEILING SYSTEMS OF ACOUSTICAL TILE OR LAY-IN PANELS SHALL BE SUPPORTED AND BRACED PER CURRENT CODE REQUIREMENTS, SEE ARCHITECTURAL DRAWINGS.

DESIGN CRITERIA

1. VERTICAL LOADS:
   A. DEAD LOADS:
      ROOF (FLAT) ..... 15 PSF
   B. LIVE LOADS: REDUCIBLE UNLESS NOTED OTHERWISE
      ROOF (FLAT)..... 20 PSF
2. LATERAL LOADS:
   A. WIND: PER ASCE 7-16 (CBC 2022)
      BASIC WIND SPEED-3 SECOND GUST (V3s)..... 97 MPH
      TOPOGRAPHIC FACTOR (Kzt)..... 1.0
      RISK CATEGORY II
      EXPOSURE CATEGORY..... C
      ENCLOSURE CLASSIFICATION..... ENCLOSED
   B. SEISMIC: PER ASCE 7-16 (CBC 2022)
      RISK CATEGORY..... II
      SEISMIC IMPORTANCE FACTOR (IE)..... 1.0
      RHO (N-S)..... 1.0
      RHO (E-W)..... 1.0
      MAPPED SPECTRAL RESPONSE ACCELERATIONS:
      SS= 0.768 G
      S1= 0.283 G
      SITE CLASS..... DEFAULT
      SPECTRAL RESPONSE COEFFICIENTS:
      Sds= 0.615 G
      Sd1= N/A
      SEISMIC DESIGN CATEGORY:..... D

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124851 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑

ALPHASTUDIO DESIGN GROUP

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LAKESIDE
UNION SCHOOL DISTRICT

KITCHEN EXPANSION

LEMON CREST ELEMENTARY SCHOOL

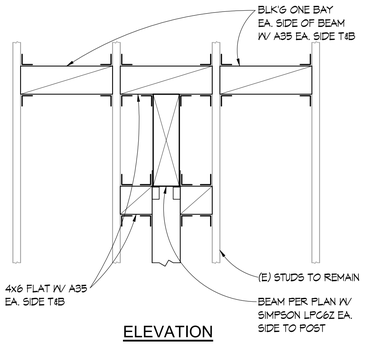
12463 LEMON CREST DR.
LAKESIDE, CA 92040

LAKESIDE UNION SCHOOL DISTRICT
12335 WOODSIDE AVE LAKESIDE CA 92040

REVISIONS

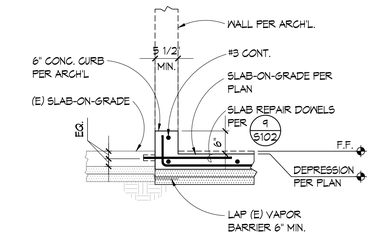
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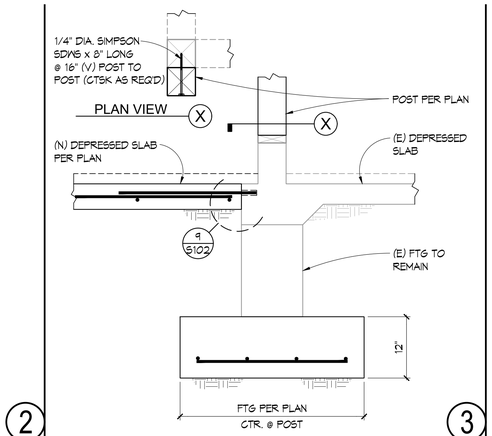


ELEVATION

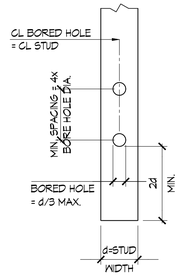
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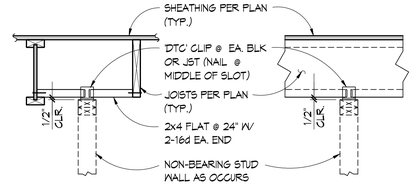
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BORING OF WOOD STUDS

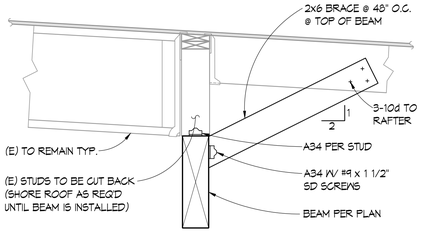
NOTE:
1. LARGER HOLES MUST BE APPROVED BY THE STRUCTURAL ENGINEER.

4

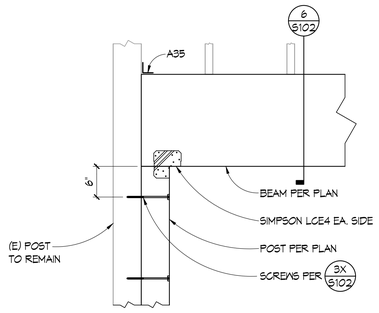


TYP. NON-BEARING WOOD WALL ATTACH

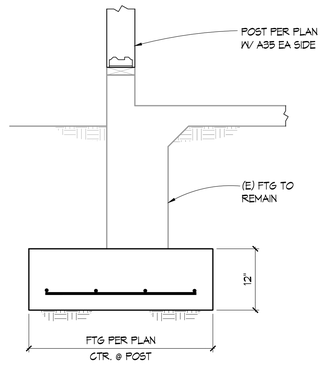
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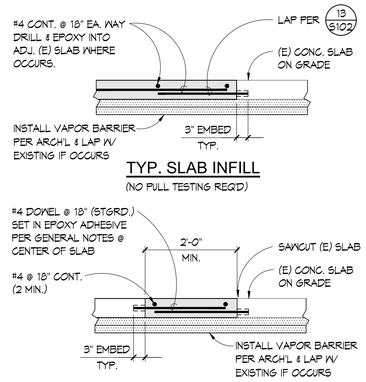
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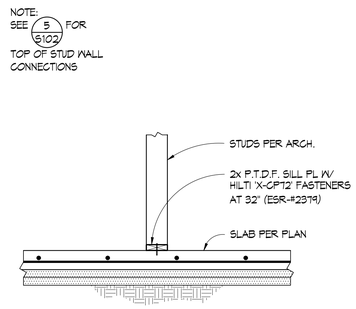
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TYP. SLAB INFILL
(NO PULL TESTING REQ'D)

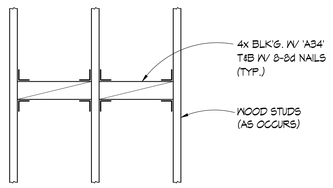
TYP. TRENCH SLAB INFILL
(NO PULL TESTING REQ'D)

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TYP NON-STRUCTURAL PARTITION ATTACHMENT TO SLAB

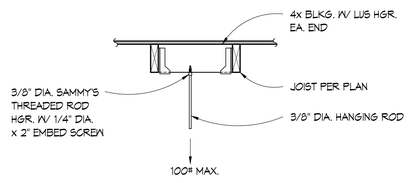
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TYP. WOOD STUD BACKING DETAIL

11

NOTE:
PROVIDE P1000T ROD STIFFENERS WHERE ROD LENGTH EXCEEDS 14 INCHES
USE ROD CLIPS @ 14" OC



THREADED ROD ATTACHMENT TO WOOD BLKG.

12

REBAR LAP SCHEDULE (CONCRETE)

BAR SIZE	Fc=3000 PSI		Fc=4000 PSI	
	TOP BARS (IN.)	OTHER BARS (IN.)	TOP BARS (IN.)	OTHER BARS (IN.)
#3	28	22	24	19
#4	37	29	32	25
#5	47	38	40	31
#6	56	43	48	37
#7	81	63	70	54
#8	93	72	80	62
#9	105	81	91	70
#10	118	91	102	79
#11	131	101	113	87

NOTES:
1. LAP SPLICE LENGTHS FOR GRADE 60 REINFORCING BAR.
2. LAP SPLICE LENGTHS FOR NORMAL WEIGHT CONCRETE
3. LAP SPLICE LENGTHS FOR CLASS B LAPS = 1.3 ld.
4. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW THE BARS.
5. LAP SPLICE LENGTHS ARE BASED ON THE TYPE OF STRUCTURAL ELEMENT AS FOLLOWS:
   BEAMS OR COLUMNS: COVER AT LEAST 1.0db AND CENTER TO CENTER SPACING AT LEAST 2.0db.
   ALL OTHERS: COVER AT LEAST 1.0db AND CENTER TO CENTER SPACING AT LEAST 3.0db.

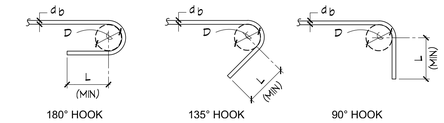
13

BARS OTHER THAN STIRRUPS, TIES, HOOPS & CROSS-TIES

BAR SIZE	"D"	180DEG "L"	135DEG "L"	90DEG "L"
#3	2 1/4	2 1/2	-	4 1/2
#4	3	2 1/2	-	6
#5	3 3/4	2 1/2	-	7 1/2
#6	4 1/2	3	-	9
#7	5 1/4	3 1/2	-	10 1/2
#8	6	4	-	12
#9	9 1/2	4 1/2	-	13 1/2
#10	10 3/4	5 1/4	-	15 1/4
#11	12	5 3/4	-	17
#14	18 1/4	7	-	21
#18	24	9	-	27
STIRRUPS, TIES, HOOPS & CROSS-TIES				
#3	1 1/2	-	4	4
#4	2	-	4	4
#5	2 1/2 (1)	-	4	4
#6	4 1/2	-	4 1/2	9
#7	5 1/4	-	5 1/4	10 1/2
#8	6	-	6	12

(1) USE 3 3/4" IN CONC. BLK. CONSTRUCTION

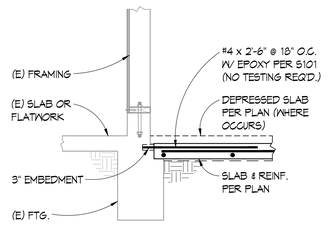
NOTE: ALL DIMENSIONS GIVEN ARE IN INCHES.



LEGEND FOR REINF. BENDS (NOT SHOWN TO SCALE)
- INDICATES 90DEG BEND IN PLANE OF DRAWING
- INDICATES 90DEG BEND PERPENDICULAR TO PLANE OF DRAWING
- INDICATES 135DEG BEND IN PLANE OF DRAWING
- INDICATES 180DEG BEND IN PLANE OF DRAWING
- INDICATES 135DEG OR 180DEG BEND PERPENDICULAR TO PLANE OF DRAWING
- INDICATES OFFSET IN PLANE OF DRAWING

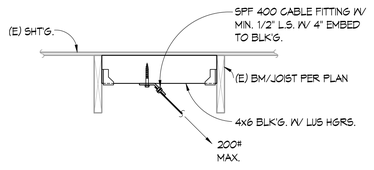
REINFORCING BAR BENDS & HOOKS

15



TYP. EXHAUST FAN ANCHORAGE

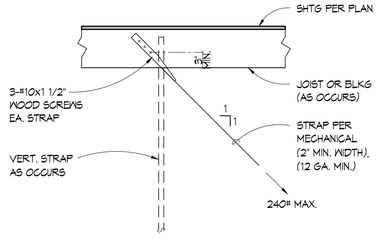
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AIRCRAFT CABLE TO WOOD FRAMING

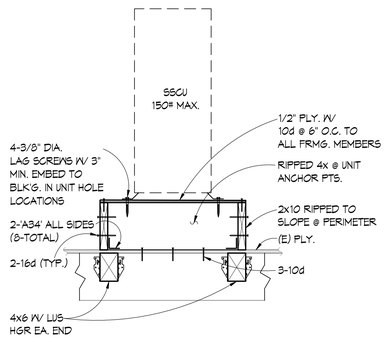
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NOTE: WHEN STRAP RUNS PERPENDICULAR TO JOISTS, PROVIDE FULL DEPTH BLKG W/ 2-A34 CLIPS EA. END.



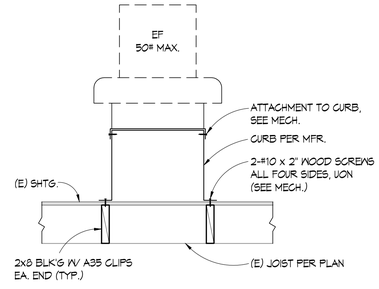
TYP. STRAP TO JOIST/ BLKG

18



TYP. SSCU ATTACHMENT

19



TYP. EXHAUST FAN ANCHORAGE

20

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KITCHEN EXPANSION

LEMON CREST ELEMENTARY SCHOOL

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REVISIONS

MARK	DATE	DESCRIPTION
	4/14/2026	DSA V3 SUBMITTAL

PROJECT NO: #PIn
MODEL FILE: 25-0 LUSD Lemon Crest Kitchen Expansion.pln
PLOT DATE: 4/9/2026

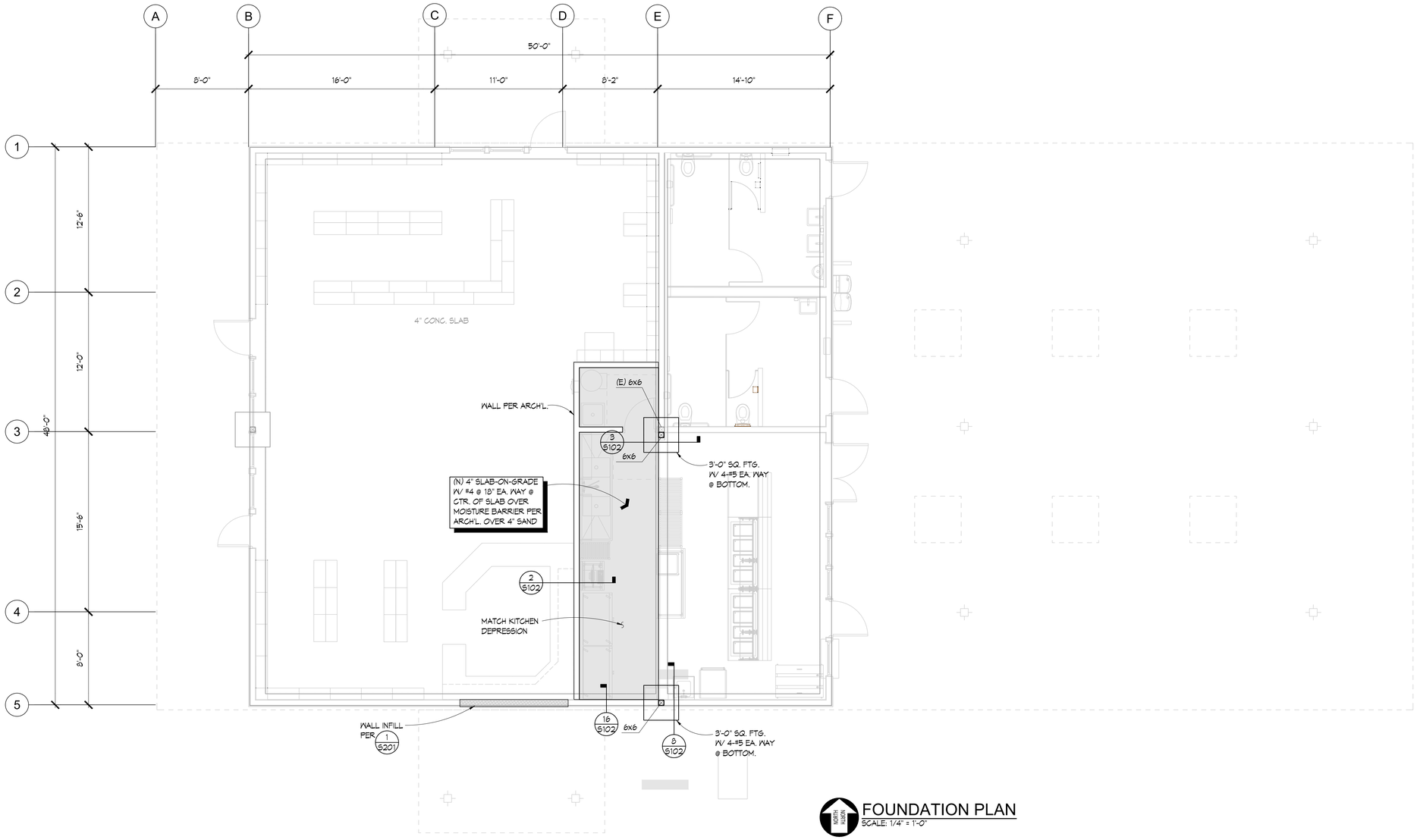
SHEET TITLE

TYPICAL DETAILS

S102

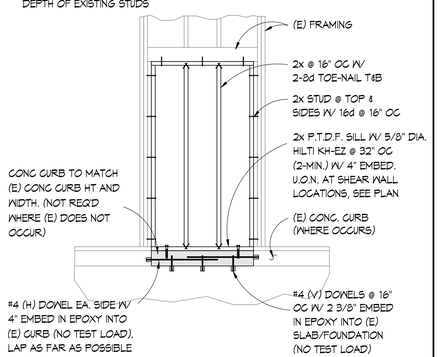
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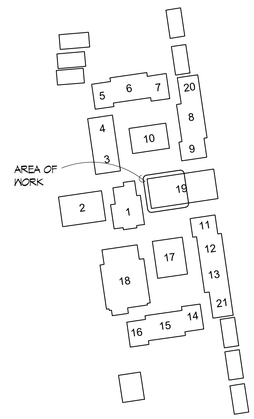


FOUNDATION PLAN
SCALE: 1/4" = 1'-0"

NOTE:
1. NEW STUDS SHALL MATCH DEPTH OF EXISTING STUDS



TYP. (E) DOOR INFILL
16



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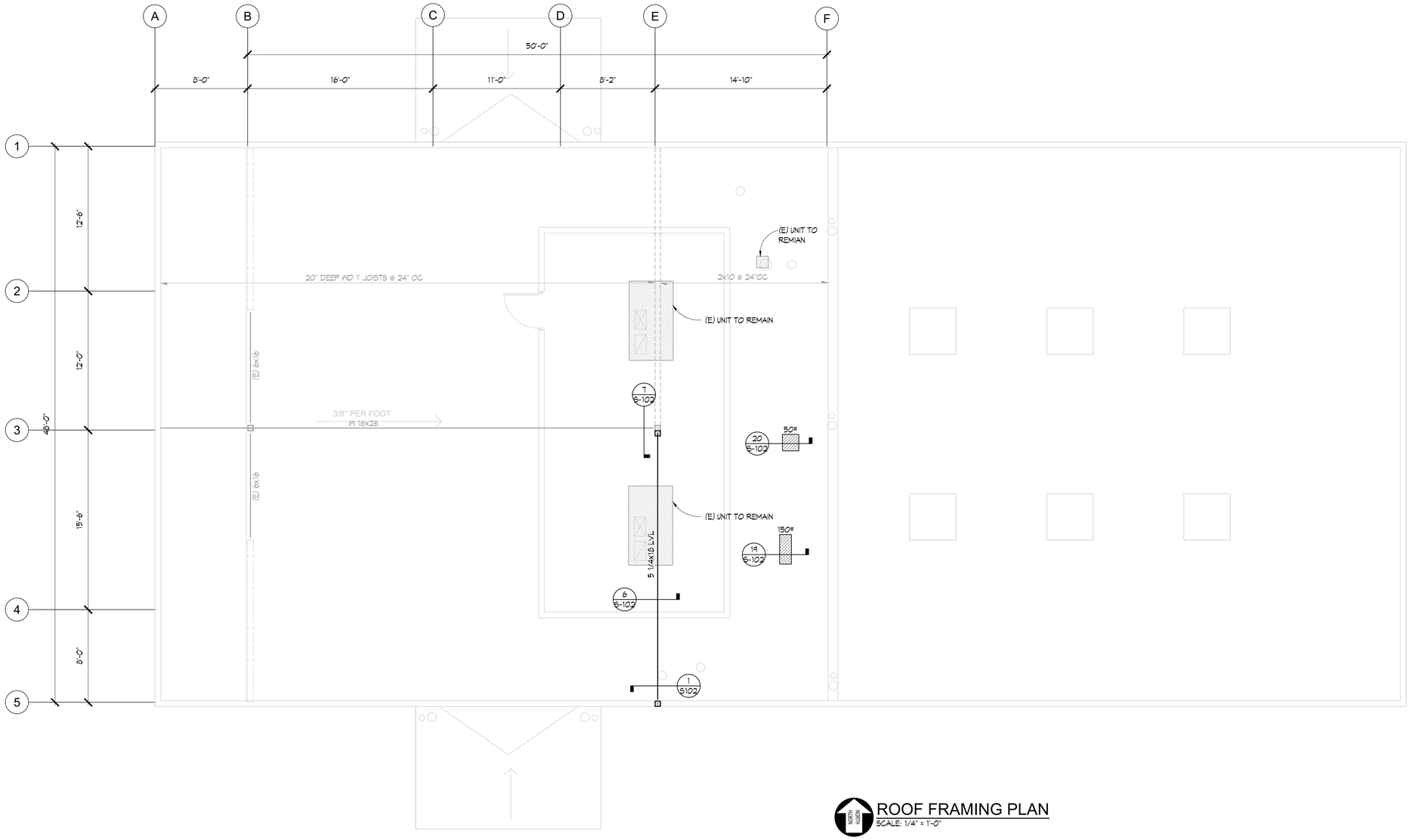
PROJECT NO: #Pln
MODEL FILE:
25-0 LUSD Lemon Crest Kitchen Expansion.pln
PLOT DATE:
4/9/2026

SHEET TITLE
PARTIAL FOUNDATION PLAN

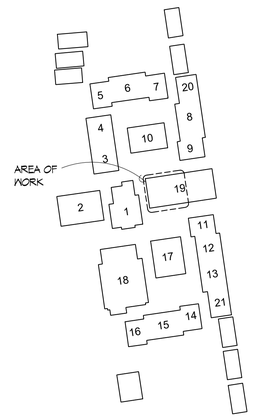
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ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"



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MARK	DATE	DESCRIPTION
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PROJECT NO: #PIn

MODEL FILE:
25-0 LUSD Lemon Crest Kitchen Expansion.pln

PLOT DATE:
4/9/2026

SHEET TITLE

PARTIAL ROOF FRAMING PLAN

S202

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MECHANICAL LEGEND (SYMBOLS) AND ABBREVIATIONS

VALVES AND FITTINGS

- BALL VALVE
- CHECK VALVE
- BACKFLOW PREVENTOR
- GATE VALE
- PRESSURE REDUCING VALVE
- CONTROL VALVE
- CALIBRATED BALANCING VALVE
- BUTTERFLY VALVE
- PLUG VALVE
- GLOBE VALVE
- AUTOMATIC FLOW CONTROL VALVE
- TRIPLE DUTY VALVE
- SOLENOID VALVE
- STEAM TRAP
- SMD SMOKE DUCT DETECTOR
- BLIND FLANGE
- TRICLAMP
- PIPE CAP (THREADED)
- PIPE CAP (WELDED)
- UNION
- REDUCER
- STRAINER
- THERMOMETER
- PRESSURE GAUGE
- RELIEF VALVE
- AUTOMATIC AIR VENT
- FLEXIBLE PIPE CONNECTION

PIPING

- RL — REFRIGERANT LIQUID
- RS — REFRIGERANT SUCTION
- RG — REFRIGERANT GAS
- HWS — HEATING HOT WATER SUPPLY
- HWR — HEATING HOT WATER RETURN
- CHWS — CHILLED WATER SUPPLY
- CWSR — CHILLED WATER RETURN
- CWS — CONDENSER WATER SUPPLY
- CWR — CONDENSER WATER RETURN
- STM — PLANT STEAM
- CN — CONDENSATE RETURN
- FW — FEEDWATER (STEAM)
- SW — SOFTWATER
- D — DRAIN
- CSTM — CLEAN STEAM
- CCA — CLEAN COMPRESSED AIR
- PIPE DOWN
- PIPE UP
- PIPE DOWN

SYMBOLS

- A | B — SQUARE DIFFUSER / REGISTER
  A = DESIGNATION (X = EXISTING)
  B = AIRFLOW
- A | B | C — GRILLE
  A = DESIGNATION
  B = AIRFLOW
  C= SIZE
- A | B | C | D | E — LINEAR DIFFUSER
  A = DESIGNATION
  B = AIRFLOW
  C= LENGTH (FEET)
  D = NUMBER OF SLOTS
  E = SLOT SIZE (INCHES)
- A / B — EQUIPMENT TAG
  A = TYPE
  B = EQUIPMENT NUMBER / UNIQUE IDENTIFIER
- SUPPLY DIFFUSER
  THROW DIRECTION AS INDICTED ON PLANS (4-WAY IF NONE INDICATED)
- RETURN GRILLE
- EXHAUST GRILLE
- A / B — DETAIL/SHEET REFERENCE
  (DETAIL "A" ON DRAWING "B")
- A / B — SECTION OR ELEVATION REFERENCE
  (SECTION "A" ON DRAWING "B")
- SUPPLY DUCT SECTION
- RETURN DUCT SECTION
- EXHAUST DUCT SECTION
- REMOVE EXIST. EQUIP. OR PIPES SHOWN HATCHED
- R — DUCT RISE (IN DIRECTION OF ARROW)
- D — DUCT DROP (IN DIRECTION OF ARROW)
- DUCT WITH SOUND INSULATION/LINING
- CONNECT TO EXISTING EQUIPMENT, DUCTWORK, PIPING
- LIMITS OF DUCTWORK, PIPING DISCONNECTION
- FIRE SMOKE DAMPER (FSD)
- T — ROOM SENSOR (ASSOCIATED MECHANICAL UNIT)
  (xx-x)

ABBREVIATIONS

A/C	AIR CONDITIONING	FA	FREE AREA IN SQUARE FEET	OSA	OUTSIDE AIR
ABS	ABSOLUTE	FC	FAIL CLOSED; FLEXIBLE CONNECTION	OBD	OPPOSED BLADE DAMPER
AFF	ABOVE FINISHED FLOOR	FLA	FULL LOAD AMPS	OED	OPEN END DUCT
AFG	ABOVE FINISHED GRADE	FLX	FLEXIBLE CONNECTION	PH	PHASE
ALUM.	ALUMINUM	FPM	FEET PER MINUTE	PLBG	PLUMBING
AMPS	AMPERES	FPS	FEET PER SECOND	PSIG	POUNDS PER SQUARE INCH GAUGE
AP	ACCESS PANEL	FSD	FIRE SMOKE DAMPER	QTY	QUANTITY
ATM.	ATMOSPHERE	GAL.	GALLON	RA	RETURN AIR
AUTO.	AUTOMATIC	GALV	GALVANIZED	S.S.	STAINLESS STEEL
BAS	BUILDING AUTOMATION SYSTEM	GE	GENERAL EXHAUST	SA	SUPPLY AIR
BHP	BRAKE HORSE POWER	GPH	GALLON PER HOUR	SEC	SECOND
B/G	BELOW GRADE	GPM	GALLON PER MINUTE	SP	STATIC PRESSURE
BTU	BRITISH THERMAL UNIT	HP	HORSE POWER	SQ.FT.	SQUARE FEET OR SQUAR FOOT
CFM	CUBIC FEET PER MINUTE	HVAC	HEATING VENTILATING AND AIR-CONDITIONING	STD	STANDARD
DB	DRY BULB	HZ	HERTZ	TBR	TO BE REMOVED
DDC	DIRECT DIGITAL CONTROL	IN	INCHES	TEMP.	TEMPERATURE
DIA	DIAMETER	IN WG	INCHES OF WATER GAUGE	TF	TRANSFER
DN	DOWN	K.W.	KILOWATTS	TSP	TOTAL STATIC PRESSURE
DTR	DOWN THROUGH ROOF	LAT	LEAVING AIR TEMPERATURE	TYP	TYPICAL
E OR (E)	EXISTING	LDB	LEAVING DRY BULB TEMPERATURE	U.N.O.	UNLESS NOTED OTHERWISE
EA	EXHAUST AIR	LWB	LEAVING WET BULB TEMPERATURE	UTR	UP THROUGH ROOF
EAT	ENTERING AIR TEMPERATURE	LWT	LEAVING WATER TEMPERATURE	W/	WITH
EDB	ENTERING DRY BULB TEMPERATURE	MA	MAKEUP AIR	W/O	WITHOUT
ETR	EXISTING TO REMAIN	NC	NORMALLY CLOSED	WB	WET BULB
ESP	EXTERNAL STATIC PRESSURE	NO	NORMALLY OPEN	WMS	WIRE MESH SCREEN
EWB	ENTERING WET BULB TEMPERATURE	N.I.C.	NOT IN CONTRACT	VFD	VARIABLE FREQUENCY DRIVE
EWT	ENTERING WATER TEMPERATURE	NTS	NOT TO SCALE		

SPLIT SYSTEM FAN COIL / CONDENSING UNIT SCHEDULE

PLAN MARK	MANUFACTURER & MODEL NO.	LOCATION	SERVICE	NOMINAL CAPACITY (TONS)	SUPPLY FAN AIRFLOW (CFM)	SUPPLY FAN ESP (IN WG)	MINIMUM OSA (CFM)	DX COOLING COOLING CAPACITY TOTAL (MBH)	DX COOLING COOLING CAPACITY SENSIBLE (MBH)	DX COOLING ENTERING AIR DB (DEG F)	DX COOLING ENTERING AIR WB (DEG F)	DX COOLING AMBIENT AIR TEMP (DEG F)	DX COOLING EFFICIENCY SEER2 (EER2)	DX HEATING HEATING CAPACITY (MBH)	DX HEATING ENTERING AIR (DEG F)	DX HEATING AMBIENT AIR TEMP (DEG F)	DX HEATING EFFICIENCY HSPF2 (COP)	ELECTRICAL DATA MCA	ELECTRICAL DATA MOCP	ELECTRICAL DATA V/PH/HZ	ANCHORAGE DETAIL	OPER. WT. (LBS.)	REMARKS
SSCU 1	TOSHIBA CARRIER RAV-BP24	ROOF	KITCHEN 19-2	2	N/A	N/A	N/A	24.0	18.75	80	67	95	24.2 (13.8)	27.0	70	47	11.1 (2.1)	17	25	208/1/60	5/M3.1	150	1
SSFC 1	TOSHIBA CARRIER RAV-HB24	KITCHEN 19-2			730	N/A	250											POWERED FROM OUTDOOR UNIT			6/M3.1	50	

REMARKS:
1. PROVIDE WITH 7-DAY PROGRAMMABLE CONTROLLER 'RBC-AWSU52-UL'.

EXHAUST FAN SCHEDULE

PLAN MARK	MANUFACTURER & MODEL NO.	SERVICE	TYPE	AIRFLOW (CFM)	ESP (IN WG)	FAN SPEED (RPM)	MOTOR HP (WATTS)	MOTOR RPM	MOTOR MCA (FLA)	MOTOR MOCP	MOTOR V/PH/HZ	ANCHORAGE DETAIL	OPER. WT. (LBS.)	REMARKS
EF 1	GREENHECK G-080-VG	KITCHEN 19-2	DOWNBLAST	250	0.5	1,575	1/10	1,575	1.9	15	115/1/60	4/M3.1	50	1 2

REMARKS:
1. PROVIDE WITH MANUFACTURER'S ROOF CURB, BACKDRAFT DAMPER & SPEED CONTROLLER.
2. INTERLOCK WITH SSCU-1/SSFC-1.

AIR DISTRIBUTION DEVICE SCHEDULE

PLAN MARK	MANUFACTURER & MODEL NO.	SERVICE	NECK SIZE	AIRFLOW (CFM)	FACE SIZE	BORDER TYPE	DESCRIPTION	FINISH	REMARKS
S1 –	PRICE SMCD	SUPPLY	6x6	0 – 100	24x24	LAY-IN	MODULAR CORE SUPPLY DIFFUSER WITH FOUR REMOVABLE AIRFLOW MODULES	OFF WHITE	PROVIDE SQUARE-TO-ROUND ADAPTER. INSTALL WITH 4-WAY THROW UNLESS NOTED OTHERWISE ON PLANS.
			8x8	110 – 220					
			10x10	230 – 390					
			12x12	400 – 600					
			14x14	610 – 800					
			18x18	810 – 1000					
R1 – E1 –	PRICE PDDR	EXHAUST / RETURN	6"	0 – 100	24x24	LAY-IN	PERFORATED FACE RETURN GRILLE	OFF WHITE	SIZE NECK SIZE TO EQUAL THE LARGER OF THE DUCT SIZE INDICTED ON THE PLANS OR THE NECK SIZE SCHEDULE ACCORDING TO AIRFLOW. IN CASES OF TRANSFER DUCTS, SIZE NECK PER DUCT SIZE INDICATED ON PLANS. SUBSTITUTE SQUARE NECK FOR LOW CLEARANCE APPLICATION.
			8"	110 – 220					
			10"	230 – 390					
			12"	400 – 600					
			14"	610 – 800					
			18x18	810 – 1,300					
			22x22	1,310 – 1800					
E1 – –	PRICE 530D	EXHAUST / RETURN	12x12 (U.N.O)	AS NOTED ON PLANS	NECK SIZE PLUS 1-3/4"	TYPE 1 (SURFACE MOUNT)	SINGLE DEFLECTION RETURN/EXHAUST GRILLE WITH 45 DEG DEFLECTED BLADES, SPACED AT 3/4" AND PARALLEL TO THE LONG DIMENSION	OFF WHITE	

MECHANICAL PLAN CHECK NOTES

1. CALIFORNIA MECHANICAL CODE (CMC) 2022, CALIFORNIA PLUMBING CODE (CPC) 2022 AND 2022 TITLE 24 ENERGY STANDARDS ARE THE CODES/STANDARDS THAT ARE APPLICABLE TO THIS PROJECT.
2. SEE TITLE 24 CALCULATION FORMS NRCC-ENV-E FOR INSULATION AND MATERIAL ASSEMBLY OF WALL, ROOF AND FLOOR. SEE ARCHITECTURAL DRAWINGS FOR MATERIAL ASSEMBLY SECTIONS ON PLANS.
3. ALL INSULATION MATERIAL SHALL COMPLY WITH THE CMC SECTION 602.2. FLAME SPREAD-RATING OR 25 OR LESS AND A SMOKE DEVELOPED RATING OF 50 OR LESS.
4. HVAC PIPING AND DUCTWORK SYSTEMS SHALL BE INSULATED WITH MATERIALS CONSISTENT WITH THE REQUIREMENTS OF SECTIONS 110.8, 120.3, AND 120.4 OF THE CALIFORNIA ENERGY EFFICIENCY STANDARDS, AND 2022 CALIFORNIA MECHANICAL CODE (CMC) CHAPTER 6. FLAME SPREAD-RATING OR 25 OR LESS AND A SMOKE DEVELOPED RATING OF 50 OR LESS.
5. ALL HVAC EQUIPMENT AND APPLIANCES SHALL MEET THE REQUIREMENTS PER SECTIONS 110.1–110.3, 110.5 AND 120.1–120.9 OF THE CALIFORNIA ENERGY EFFICIENCY STANDARDS.
6. HVAC SYSTEMS AUTOMATIC CONTROLS SHALL COMPLY WITH THE CONTROL REQUIREMENTS PER SECTIONS 110.2 AND 120.2 OF THE CALIFORNIA ENERGY EFFICIENCY STANDARDS.
7. ALL MATERIALS EXPOSED WITHIN DUCTS OR PLENUMS, FLEXIBLE DUCTS AND DUCT INSULATION SHALL COMPLY WITH CMC SECTION 602.2 AND SHALL HAVE A FLAME SPREAD RATING OF NOT MORE THAN 25 AND A SMOKE DEVELOPED RATING OF NOT MORE THAN 50.
8. ALL DOORS AND WINDOWS SHALL MEET THE MINIMUM INFILTRATION REQUIREMENTS PER SECTION 110.6 AND 110.7 OF THE CALIFORNIA ENERGY EFFICIENCY STANDARDS.
9. AT THE TIME OF PERMIT ISSUANCE, THE PERMITEE WILL PROVIDE AN APPROVED COPY OF THE CERTIFICATE OF COMPLIANCE (MECH-1) TO THE JURISDICTION FOR FILING.
10. PROVIDE SMOKE DETECTORS ON AIR MOVING SYSTEMS EXCEEDING 2000 CFM AT SUPPLY AIR DUCTS. (2022 CMC 609.1)
11. FIRE AND/OR SMOKE DAMPER ASSEMBLIES, INCLUDING SLEEVES, AND INSTALLATION PROCEDURES SHALL BE APPROVED BY THE BUILDING INSPECTOR PRIOR TO INSTALLATION.
12. ALL WATER HEATERS/ BOILERS SHALL BE STRAPPED OR ANCHORED PER SEC. 510.5 OF THE CPC TO RESIST HORIZONTAL DISPLACEMENT DUE TO EARTHQUAKE MOTION.
13. AIR FILTERS SHALL BE A STATE FIRE MARSHALL APPROVED AND LISTED TYPE. PRE-FORMED FILTERS HAVING COMBUSTIBLE FRAMING SHALL BE TESTED AS A COMPLETE ASSEMBLY. AIR FILTERS IN ALL OCCUPANCIES SHALL BE CLASS 1 OR 2 (AS SHOWN IN THE STATE FIRE MARSHALL LISTING). AIR FILTERS SHALL BE ACCESSIBLE FOR CLEANING OR REPLACEMENT. (305.0 CMC)
14. CERTIFICATE OF ACCEPTANCE AND ALL RELATED ACCEPTANCE DOCUMENTS SHALL BE SUBMITTED TO THE FIELD INSPECTOR DURING CONSTRUCTION. CERTIFICATE OF OCCUPANCY WILL NOT BE ISSUED UNTIL THESE FORMS ARE REVIEWED AND APPROVED.
15. PENETRATIONS IN FIRE-RESISTIVE WALLS, PARTITIONS AND FLOORS WHERE PROTECTED OPENINGS ARE REQUIRED SHALL BE FIRE STOPPED USING APPROVED MATERIALS, SECURELY INSTALLED AND CAPABLE OF MAINTAINING THEIR INTEGRITY AND PREVENTING THE MOVEMENT OF HOT FLAMES OR GASES THROUGH THE VOID SPACES BETWEEN PENETRATING MATERIALS AND WALLS, PARTITIONS AND FLOORS WHEN TESTED IN ACCORDANCE WITH ASTM STANDARD E-814 OR UL STANDARD 1479. PROVIDE DESIGN DETAILS ON DRAWINGS DEPICTING APPROVED (LISTED) METHODS AND MATERIALS USED TO PROTECT PENETRATIONS IN WALLS, PARTITIONS AND FLOORS.
16. FACTORY-MADE FLEXIBLE AIR DUCTS AND CONNECTORS SHALL NOT BE MORE THAN 5 FEET IN LENGTH PER SECTION 603.4.1 CMC.
17. ROOF ACCESS LADDER SHALL COMPLY WITH SECTION 304 CMC.

MECHANICAL CAL GREEN NOTES

1. THE PERMANENT HVAC SYSTEM SHALL ONLY BE USED DURING CONSTRUCTION IF NECESSARY TO CONDITION THE BUILDING OR AREAS OF ADDITION OR ALTERATION WITHIN THE REQUIRED TEMPERATURE RANGE FOR MATERIAL AND EQUIPMENT INSTALLATION. IF THE HVAC SYSTEM IS USED DURING CONSTRUCTION, RETURN AIR FILTERS WITH A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 8, BASED ON ASHRAE 52.2–1999, OR AN AVERAGE EFFICIENCY OF 30% BASED ON ASHRAE 52.1–1992 SHALL BE USED. ALL FILTERS SHALL BE REPLACED IMMEDIATELY PRIOR TO OCCUPANCY OR AT THE CONCLUSION OF CONSTRUCTION. (CAL GREEN SEC: 5.504.1.)
2. AT TIME OF ROUGH INSTALLATION AND DURING STORAGE ON THE CONSTRUCTION SITE UNTIL FINAL STARTUP OF HEATING, COOLING AND VENTILATING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEETMETAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST, WATER AND DEBRIS WHICH MAY ENTER THE SYSTEM. (CAL GREEN SEC: 5.504.3)
3. IN MECHANICALLY VENTILATED BUILDINGS, REGULARLY OCCUPIED AREAS OF THE BUILDING SHALL BE PROVIDED WITH AIR FILTRATION MEDIA FOR OUTSIDE AND RETURN AIR THAT PROVIDES AT LEAST A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 13. MERV 13 FILTERS SHALL BE INSTALLED PRIOR TO OCCUPANCY, AND RECOMMENDATIONS FOR MAINTENANCE WITH FILTERS OF THE SAME VALUE SHALL BE INCLUDED IN THE OPERATION AND MAINTENANCE MANUAL. (CAL GREEN SEC: 5.504.5.3)
4. FOR ALL BUILDINGS EQUIPED WITH DEMAND CONTROL VENTILATION, CO2 SENSORS AND VENTILATION CONTROLS SHALL BE SPECIFIED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF 2019 CALIFORNIA ENERGY CODE, SECTION 120(C)(4). (CAL GREEN SEC: 5.506.2)
5. INSTALLATIONS OF HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT SHALL COMPLY WITH SECTIONS 5.508.1.1 AND 5.508.1.2. HVAC, REFRIGERATION, AND FIRE SUPPRESSION EQUIPMENT SHALL NOT CONTAIN CHLOROFLUOROCARBONS (CFCs) AND SHALL NOT CONTAIN HALONS. (CAL GREEN SEC: 5.508.1)
6. PROVIDE THE BUILDING OWNER OR REPRESENTATIVE WITH DETAILED OPERATING AND MAINTENANCE INSTRUCTIONS AND COPIES OF GUARANTIES/WARRANTIES FOR EACH SYSTEM. O&M INSTRUCTIONS SHALL BE CONSISTENT WITH OSHA REQUIREMENTS IN CCR, TITLE 8, SECTION 5142 AND OTHER RELATED REGULATIONS.
7. PERFORM TESTING AND ADJUSTING PROCEDURES IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND APPLICABLE STANDARDS ON EACH SYSTEM. (CAL GREEN SEC: 5.410.4.3).BEFORE A NEW SPACE-CONDITIONING SYSTEM SERVING A BUILDING OR SPACE IS OPERATED FOR NORMAL USE, THE SYSTEM SHALL BE BALANCED IN ACCORDANCE WITH THE PROCEDURES DEFINED BY THE TESTING, ADJUSTING AND BALANCING BUREAU NATIONAL STANDARDS; THE NATIONAL ENVIRONMENTAL BALANCING BUREAU PROCEDURAL STANDARDS; OR ASSOCIATED AIR BALANCE COUNCIL NATIONAL STANDARDS. (CAL GREEN SEC: 5.410.4.3.1) AFTER COMPLETION OF TESTING, ADJUSTING AND BALANCING (TAB), PROVIDE A FINAL REPORT OF TESTING SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR PERFORMING THESE SERVICES. (CAL GREEN SEC: 5.410.4.4)

APPLICABLE CODE: 2022 CBC

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

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

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

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

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

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

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

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

MP☒ MD☒ PP☐ E☐ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☐ MD☐ PP☐ E☐ OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) #_____.

HVAC GENERAL NOTES

1. CONTRACTOR SHALL CAREFULLY REVIEW THESE PLANS AND SPECIFICATIONS PRIOR TO BID. CONTRACTOR SHALL ALSO REVIEW PLANS AND SPECIFICATIONS OF OTHER RELATED TRADES (INCLUDING CIVIL, STRUCTURAL, AND ELECTRICAL) PRIOR TO BID TO ENSURE AN ACCURATE UNDERSTANDING OF EXACT SCOPE OF WORK. ANY ITEMS REQUIRING CLARIFICATION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN SUFFICIENT TIME TO BE INCORPORATED INTO THE BID.
2. CONTRACTOR SHALL VERIFY ALL EQUIPMENT MODEL NUMBERS, CAPACITIES, SIZES, VOLTAGES, AND ALL OTHER SCHEDULED INFORMATION WITH ALL OTHER APPLICABLE TRADES AND WITH THE MANUFACTURER PRIOR TO INSTALLATION.
3. CONTRACTOR SHALL VERIFY ALL LOCATIONS, SIZES, POCs, AND AVAILABILITY OF ALL EXISTING ITEMS (I.E.: OUTSIDE AIR, CWS & CWR, EXHAUST ETC.) PRIOR TO INSTALLATION OF ANY MATERIAL OR EQUIPMENT.
4. THESE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ARE NOT INTENDED TO INDICATE ALL NECESSARY OFFSETS OF DUCTWORK AND PIPING. THE CONTRACTOR SHALL INSTALL MATERIAL AND EQUIPMENT IN A MANNER AS TO CONFORM TO STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEADROOM, AND KEEP OPENINGS AND PASSAGEWAYS CLEAR. ALL INSTALLATIONS SHALL BE CONSISTENT WITH NORMALLY ACCEPTABLE INDUSTRY STANDARDS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES OR CONFLICTS THAT WOULD AFFECT THE SYSTEM PERFORMANCE OR WHICH WOULD INCUR ADDITIONAL COSTS. THIS NOTIFICATION SHALL BE MADE PRIOR TO THE INSTALLATION OF THE ITEMS CONCERNED.
5. NEW AND/OR EXISTING EQUIPMENT INDICATED ON THIS DRAWING IS SHOWN IN APPROXIMATE POSITION(S). CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS INCLUDING EQUIPMENT LOCATIONS, POCs AND STRUCTURAL MEMBERS PRIOR TO INSTALLATION. IN ALL CASES, ADEQUATE ACCESS (PER MANUFACTURER'S RECOMMENDATIONS AND CODE COMPLIANCE) FOR MAINTENANCE AND REPLACEMENT OF EQUIPMENT SHALL BE PROVIDED.
6. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES. NOTHING SHOWN IN THE PLANS OR STATED IN THE SPECIFICATIONS IS INTENDED TO INDICATE THAT THE INSTALLATION OF CONNECTIONS OF ANY ITEM OR DEVICE SHOULD BE DONE CONTRARY TO THE MANUFACTURER'S INSTRUCTIONS AND ALL APPLICABLE CODES AND REGULATIONS. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THE INSTALLATION AND CONNECTIONS OF ALL ITEMS AND DEVICES CONFORM TO MANUFACTURER'S INSTRUCTIONS AND TO ALL APPLICABLE CODES AND REGULATIONS.
7. ALL HVAC EQUIPMENT, MATERIAL, AND ALL CONNECTION THERETO SHALL BE INSTALLED COMPLETE PER MANUFACTURER'S INSTRUCTIONS TO PROVIDE A COMPLETE AND FULLY OPERATIONAL SYSTEM.
8. DUCT SIZES INDICATED ON DRAWINGS ARE INSIDE NET CLEARANCE DIMENSIONS.
9. CONTRACTOR MAY, AT HIS OPTION, REVISE DUCTWORK SIZING AND ROUTING TO ALLOW FOR INSTALLATION IN THE AVAILABLE SPACE. DUCTWORK THAT IS RESIZED MUST MAINTAIN THE SAME CROSS-SECTIONAL AREA. FLEX DUCT IS LIMITED TO A MAXIMUM OF 5' AT EACH REGISTER.
10. ALL NEW SUPPLY, RETURN, AND EXHAUST (AIR DISTRIBUTION) GRILLES, REGISTERS, AND DIFFUSERS SHALL MATCH (IF APPLICABLE) EXISTING, AND BE APPROVED BY ARCHITECT. THE MAXIMUM NOISE NC LEVEL SHALL BE 35.
11. ALL SUPPLY, RETURN, AND EXHAUST REGISTER CONNECTIONS TO DUCTWORK SHALL BE PROVIDED WITH ACCESSIBLE MANUAL VOLUME DAMPERS. ALTERNATIVELY, ACCESSIBLE MANUAL VOLUME DAMPERS MAY BE PROVIDED IN DUCT WORK FEEDER LINES SERVING INDIVIDUAL REGISTERS. IN HARD-LID AREAS OR INACCESSIBLE SPACES, PROVIDE CABLE-ACTUATED VOLUME DAMPERS WITH COVER PLATE.
12. SUBSTITUTION OF HVAC EQUIPMENT WITH EFFICIENCIES LOWER THAT THOSE INDICATED ON THE PLANS MAY REQUIRE RECALCULATION OF TITLE 24 DOCUMENTS. IF THE CONTRACTOR CHOOSES TO UTILIZE SUCH EQUIPMENT, HE ASSUMES FULL RESPONSIBILITY FOR THE RECALCULATION AND JURISDICTIONAL APPROVAL OF TITLE 24 DOCUMENTS.
13. IF THE CONTRACTOR'S USE OF SUBSTITUTE MATERIALS, EQUIPMENT, OR METHODS OF INSTALLATION REQUIRES ANY CHANGES IN OTHER TRADES' WORK FROM THAT SHOWN ON THE DRAWINGS, THE EXTRA COST OF THE OTHER TRADES WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR INITIATING THE SUBSTITUTION.
14. SUBMITTALS: APPROVAL OF SUBMITTALS DOES NOT RELEASE THE CONTRACTOR FROM OBLIGATIONS TO COMPLY WITH ALL REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS OR APPLICABLE CODE REGULATIONS.
15. WHERE NONMETALLIC PIPING PENETRATES AREA SEPARATION WALLS, THE PIPE SECTION PASSING THROUGH THE WALLS AND THE FIXTURE CONNECTIONS THERETO SHALL BE OF METAL ONLY.
16. NO RANGE HOODS, DRYER VENTS, COMBUSTION VENTS, OR HEATING DUCTS ARE PERMITTED IN AREA SEPARATION WALLS.
17. A. CONTRACTOR TO VERIFY LOCATION OF FIRE AND FIRE/SMOKE BARRIER WALLS WITH ARCHITECT PRIOR TO FIRE AND/OR SMOKE DAMPER, DETECTOR AND ACTUATOR INSTALLATION.

    B. ALL CEILING FIRE DAMPERS TO BE ONE (1) HOUR U.L. AND C.S.F.M. APPROVED.

    C. ALL FIRE RATED WALLS SHALL BE PROVIDED WITH U.L. AND C.S.F.M. APPROVED SMOKE/FIRE DAMPERS (EQUAL TO WALL RATING), MOTOR, ACTUATOR, AND SMOKE DETECTOR.

    D. ALL SMOKE BARRIER WALLS SHALL BE PROVIDED WITH U.L. AND C.S.F.M. APPROVED SMOKE/FIRE DAMPERS (EQUAL TO WALL RATING), MOTOR, ACTUATOR, AND SMOKE DETECTOR.

    E. ALL PENETRATIONS OF ONE (1) HOUR CORRIDOR WALLS AND CEILINGS THAT WOULD REQUIRE THE INSTALLATION OF A FIRE DAMPER SHALL BE APPROVED WITH A U.L. AND C.S.F.M. APPROVED COMBINATION SMOKE/FIRE DAMPER, (EQUAL TO WALL RATING), MOTOR, ACTUATOR, AND SMOKE DETECTOR.

    F. PROVIDE ALL FIRE & SMOKE DAMPERS WITH ACCESS DOORS AS NECESSARY.

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UNION SCHOOL DISTRICT

KITCHEN EXPANSION

LEMON CREST ELEMENTARY SCHOOL

12463 LEMON CREST DR.
LAKESIDE, CA 92040

LAKESIDE UNION SCHOOL DISTRICT
12335 WOODSIDE AVE LAKESIDE CA 92040

REVISIONS

MARK	DATE	DESCRIPTION
	4/14/2026	DSA V3 SUBMITTAL

PROJECT NO: #PIn

MODEL FILE:
25-0 LUSD Lemon Crest Kitchen Expansion.pln

PLOT DATE:
4/9/2026

SHEET TITLE

MECHANICAL LEGEND, NOTES & SCHEDULES

M0.1

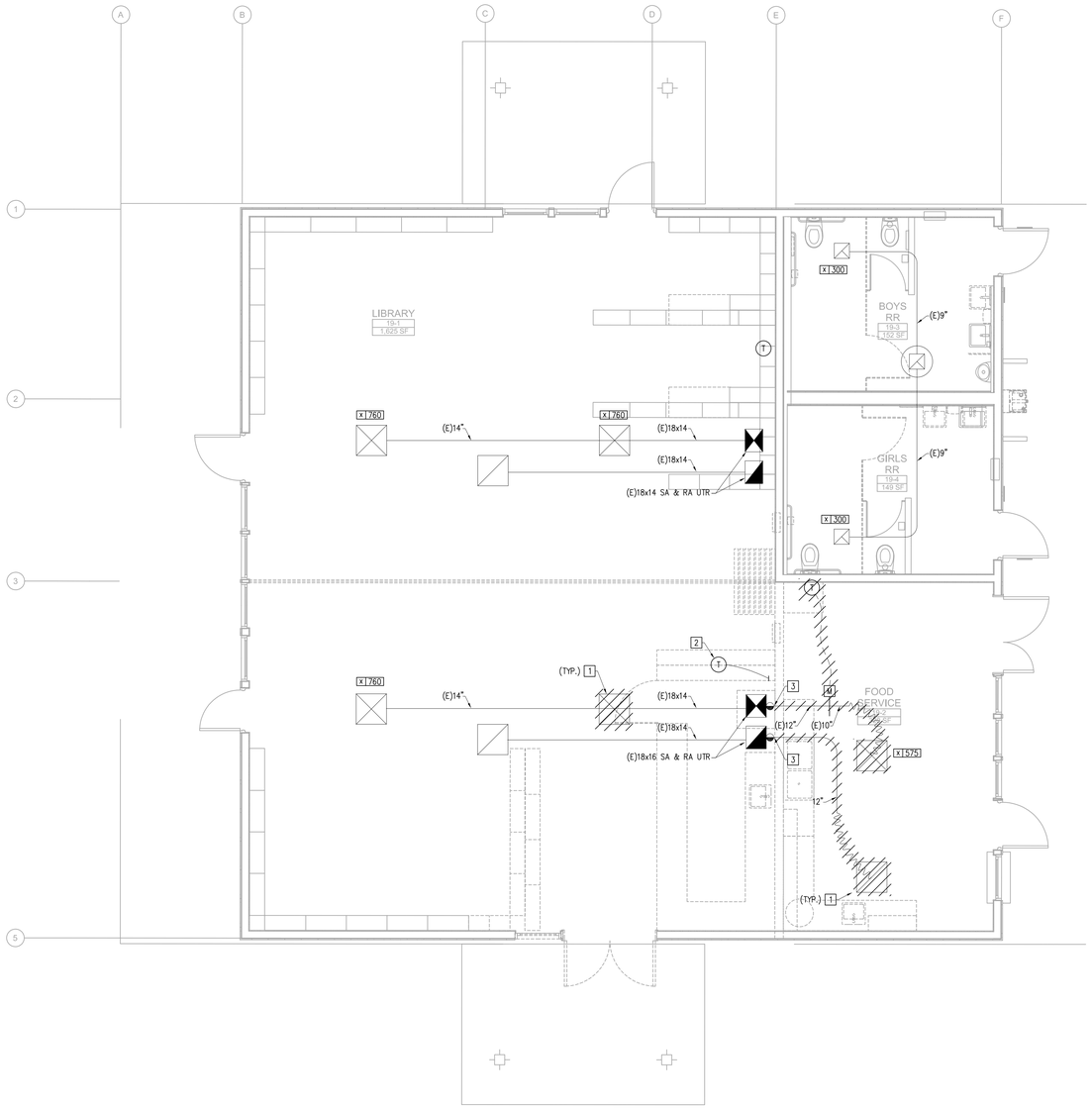
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DEMOLITION NOTES

1. DISCONNECT AND REMOVE ALL DUCTWORK & DIFFUSERS SHOWN CROSS-HATCHED.
2. DISCONNECT AND RELOCATE EXISTING THERMOSTAT. SEE NEW WORK PLAN M2.1 FOR NEW LOCATION.
3. CAP EXISTING DUCTWORK.



MECHANICAL DEMOLITION FLOOR PLAN - KITCHEN

N

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

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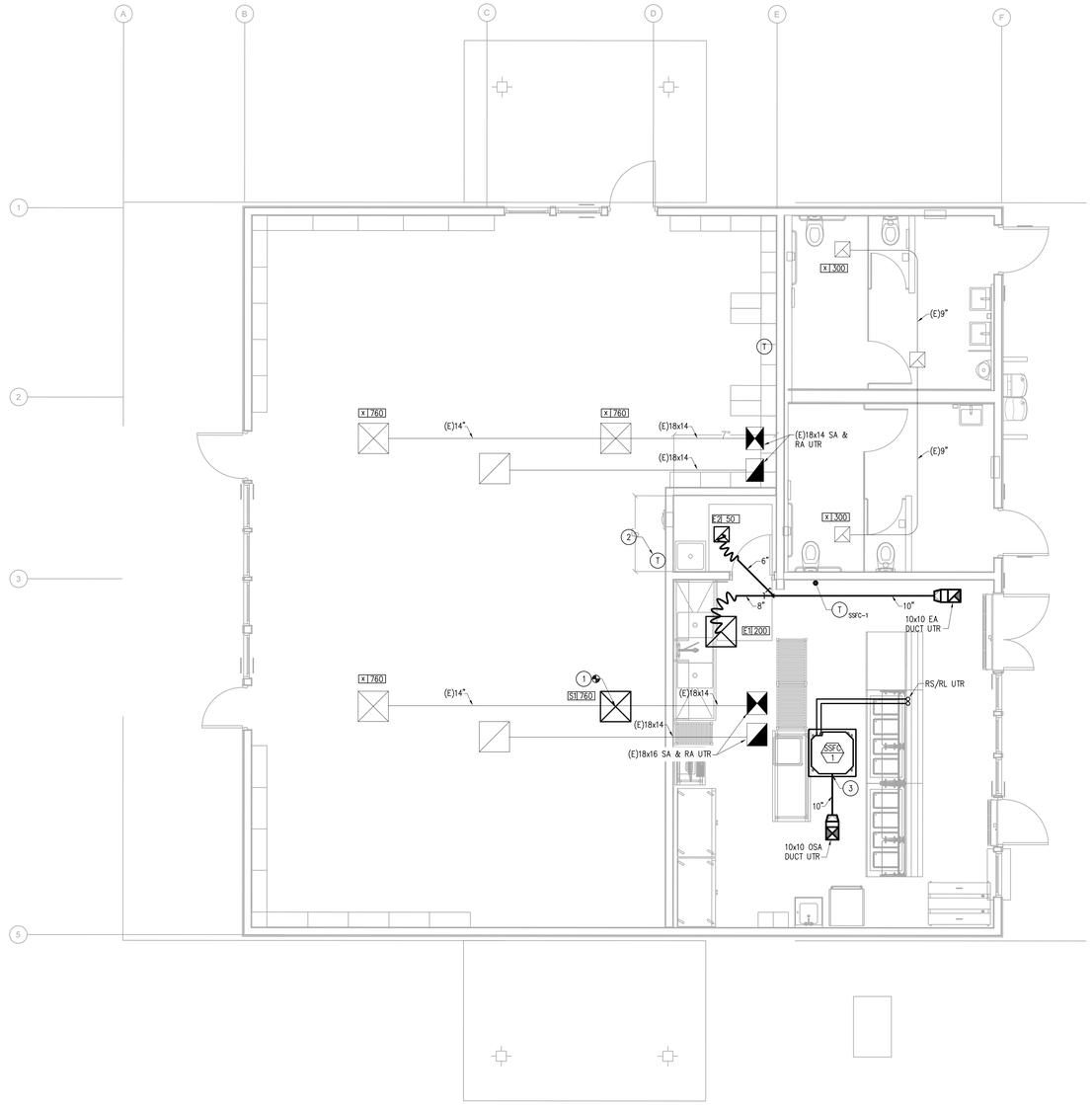
MECHANICAL DEMO
FLOOR PLAN - KITCHEN

M1.1

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MECHANICAL NEW WORK FLOOR PLAN - KITCHEN

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

NEW WORK NOTES

1. NEW CEILING DIFFUSER AND 14" SUPPLY DUCT POC TO (E)18x14 ABOVE.
2. RELOCATE EXISTING WALL THERMOSTAT.
3. TRANSITION 10" OSA DUCT TO 6" OPENING AT FAN COIL UNIT.

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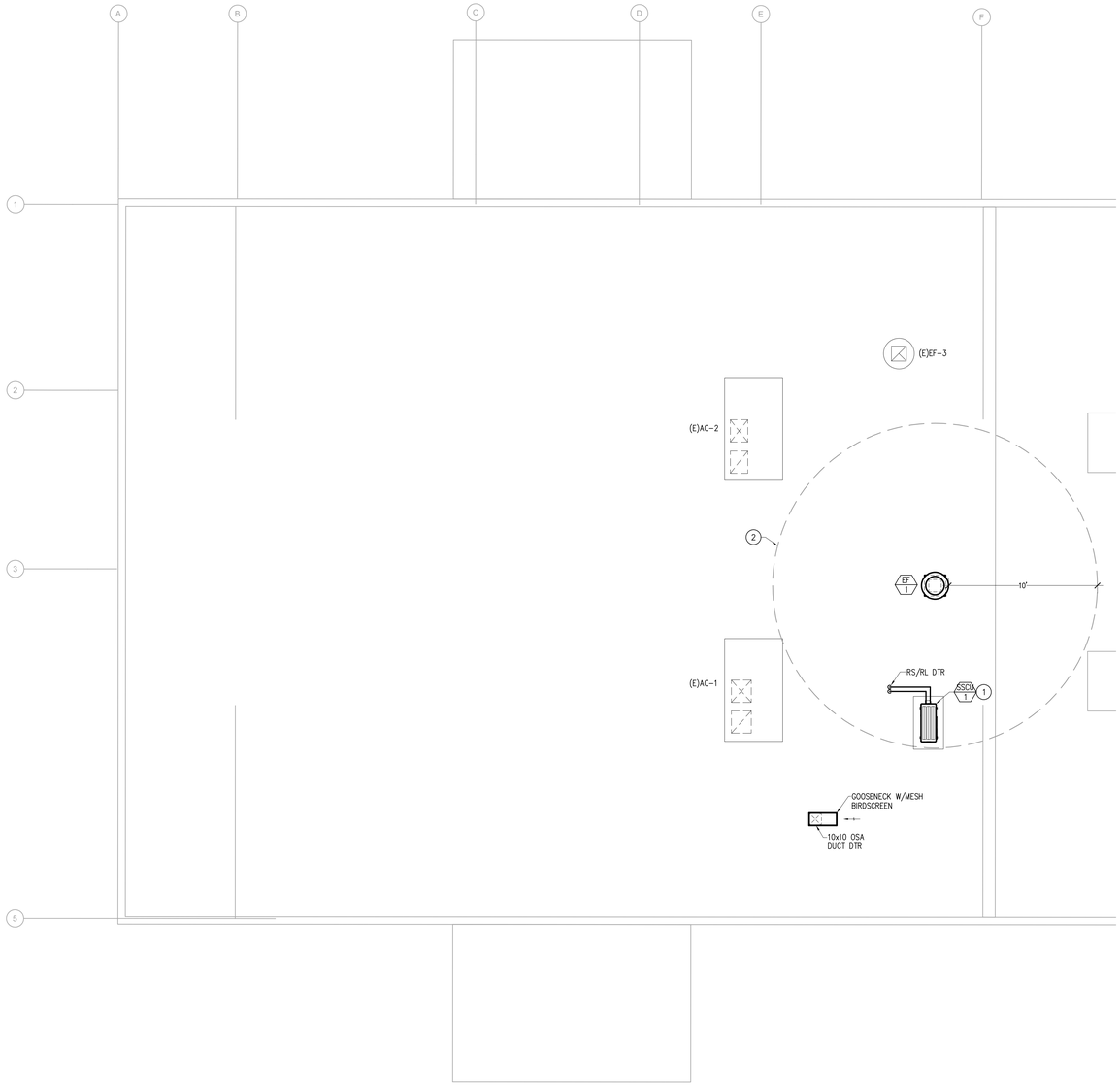
MECHANICAL
NEW WORK
FLOOR PLAN

M2.1

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MECHANICAL NEW WORK ROOF PLAN

N

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

NEW WORK NOTES

1. PROVIDE CONDENSING UNIT ON NEW ROOF PLATFORM PER ARCHITECTURAL AND STRUCTURAL PLANS.
2. MAINTAIN MINIMUM 10'-0" FROM ALL OUTSIDE AIR INTAKE.

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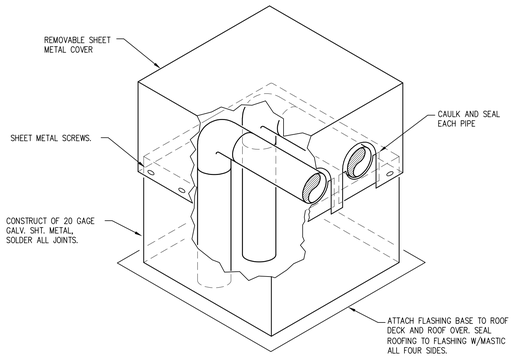
MECHANICAL
NEW WORK
ROOF PLAN

M2.2

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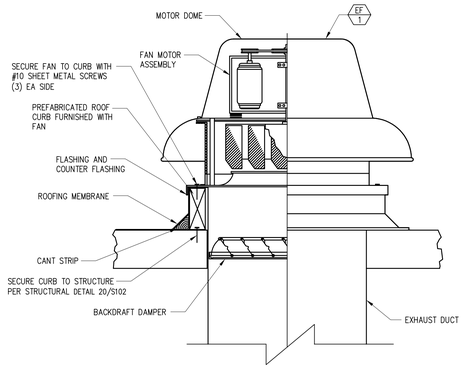
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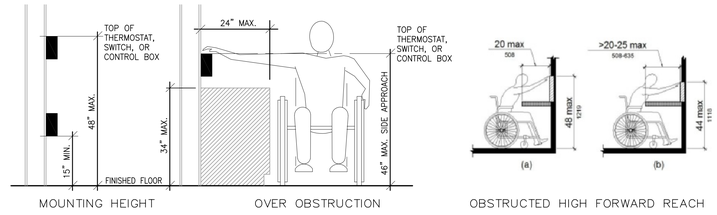
PIPE THROUGH ROOF

SCALE: NONE 7



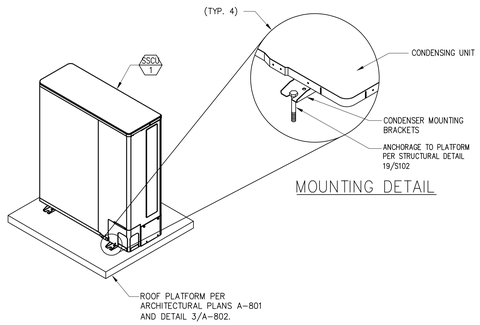
DOWNBLAST ROOF MOUNTED EXHAUST FAN

SCALE: NONE 4



THERMOSTAT MOUNTING DETAIL

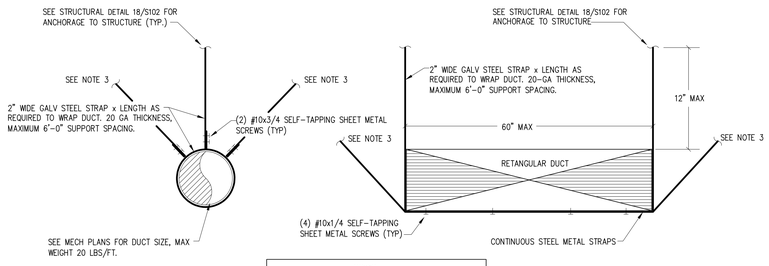
1



SUPPORT NOTES:
1. THIS DETAIL IS A GENERAL REFERENCE AND IS NOT INTENDED TO BE A SUBSTITUTE FOR MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.

CONDENSING UNIT MOUNTING

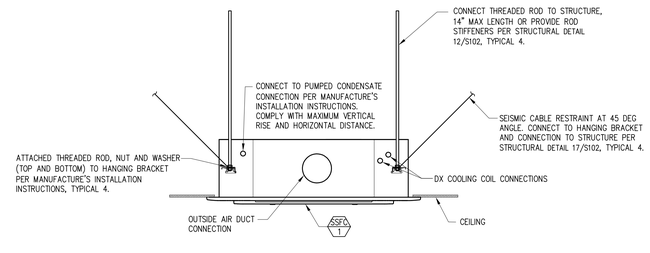
SCALE: NONE 5



NOTES
1. ALL DUCT SUPPORT AND STRAPPING SHALL BE PER SMACNA HVAC DUCT CONSTRUCTION STANDARDS, LATEST EDITION.
2. MAX DUCT WIDTH, 60" AND LESS THAN 6 SQ.FT. TOTAL W/ VERTICAL HANGER SPACING 6' MAX
3. PROVIDE CROSS-BRACE STRAPING EVERY 12' AND AT CHANGES IN DIRECTION.

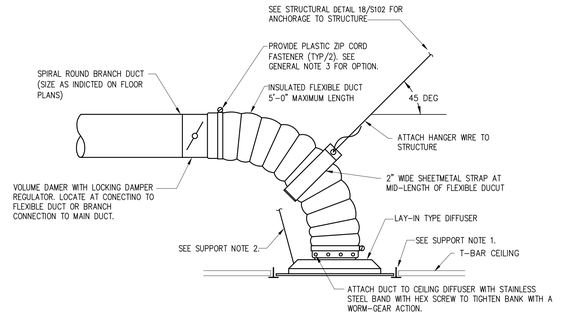
DUCT SUPPORT DETAIL

SCALE: NONE 2



FAN COIL UNIT (CASSETTE TYPE) MOUNTING

SCALE: NONE 6



GENERAL NOTES:
1. ROUND NECK CEILING DIFFUSER SHOWN. PROVIDE SQUARE TO ROUND TRANSITION (8" MIN. HEIGHT) FOR SQUARE NECK DIFFUSERS.
2. FOR HARD CEILINGS PROVIDE SURFACE MOUNTED TYPE CEILING DIFFUSERS.
3. WHERE FACTORY INSTALLED SHEET METAL FITTING ENDS ARE PROVIDED, ATTACH TO BRANCH DUCT WITH SHEET METAL SCREWS AND DUCT SEALER.

SUPPORT NOTES:
1. PROVIDE CEILING GRID CLIP AT TWO OPPOSITE SIDES OF GRILLE ATTACHED TO GRILLE WITH SHEETMETAL SCREWS.
2. FOR DIFFUSERS WEIGHING MORE THAN 20 LBS BUT NOT MORE THAN 56 LBS, PROVIDE TWO ADDITIONAL #12 GAGE WIRE HANGERS CONNECTED FROM THE DIFFUSER TO THE STRUCTURE ABOVE. WIRE MAY BE SLACK.

CEILING DIFFUSER (BRANCH DUCT TAKE-OFF)

SCALE: NONE 3

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MECHANICAL DETAILS

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F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3aii	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available[1] 140.4(a) and 170.2(c)1	Equipment Sizing per Mechanical Schedule (kBtu/h) 140.4(a&b), 170.2(c)1 & 170.2(c)2						
				Heating Output[2,3]			Cooling Output[2,3]		Load Calculations[3,4]	
				Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
SSCU-1 / SSFC-1	Unitary AC/ Condensers	AC, air cooled, split (3 phase)	NA: Load Controls	0	0	0	19.83	18.75	28.28	21.95

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

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)

01	02	03	04	05	06	07	08	09
Name or Item Tag	Size Category (Btu/h)	Heating Mode				Cooling Mode		
		Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
SSCU-1 / SSFC-1	<65,000					SEER	14.3	24.2

G. PUMPS

This section does not apply to this project.

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08	09
System Summary 110.1, 110.2, 140.4, 170.2(c)	AND	Pumps 140.4(k), 170.2(c)4I	AND	Fans/ Economizers 140.4(c), 140.4(e), 170.2(c	AND	System Controls 110.2, 120.2, 140.4(f), 170.2(c)	AND	Ventilation 120.1, 160.2	AND	Terminal Box Controls 140.4(d), 170.2(c)4B	AND	Distribution 120.3, 140.4(l), 160.2, 160.3	AND	Cooling Towers 110.2(e)2	Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	
Yes	AND		AND	Yes	AND	Yes	AND	Yes	AND		AND		AND		COMPLIES
Mandatory Measures Compliance (See Table Q for Details)															COMPLIES

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
SSCU-1 / SSFC-1	1	Single zone	New/ Addition		☐

This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b)2 for alterations.

A. GENERAL INFORMATION

01 Project Location (city)	Lakeside	04 Total Conditioned Floor Area	490
02 Climate Zone	10	05 Total Unconditioned Floor Area	0
03 Occupancy Types Within Project:		06 # of Stories (Habitable Above Grade)	1

● All Other Occupancies

B. PROJECT SCOPE

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

01	02	03
Air System(s)	Wet System Components	Dry System Components
☒ Heating Air System	☐ Water Economizer	☐ Air Economizer
☒ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
Mechanical Controls	☐ System Piping	☒ Fan Systems
☒ Mechanical Controls (existing to remain, altered or new)	☐ Cooling Towers	☐ Ductwork (existing to remain, altered or new)
	☐ Chillers	☒ Ventilation
	☐ Boilers	☐ Zonal Systems/ Terminal Boxes

J. VENTILATION AND INDOOR AIR QUALITY

This table is used to demonstrate compliance with mandatory ventilation requirements in 120.1 120.2(e)3B 140.4(a) and 140.4(q) for all nonresidential and hotel/motel and d:\24ref\nolink/1160.2, 160.3(a)3J2, 170.2(a)4N, 170.2(c)4O for high-rise residential occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflows may be shown on the plans or the calculations can be presented in a spreadsheet.

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

Nonresidential and Hotel/ Motel Multifamily Common Use Ventilation Systems

04		05			06		07
System Name	SSCU-1 / SSFC-1	System Design OA CFM Airflow[1]	245	System Design Transfer Air CFM		0	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)2:[1,2] Provided
08	09	10	11	12	13	14	15	16
Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)3[3] & 160.2(c)3				Exh. Vent per 120.1(c)4 & 160.2(c)4			DCV or Sensor Controls per 120.1(d)3, 120.1(f)5, and 120.1(e)3[3] 160.2(c)5D 160.2(c)5E 160.2(c)5D
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM	
Kitchen	Kitchenettes	490			0	147	150	DCV: NA: Not required per §120.1(d)3 Occ Sensor: NA: Not required space type
17	Total System Required Min OA CFM				0	18	Ventilation for this System Complies?	Yes

[1] FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system
[2] Air filtration requirements apply to the following three system types per 120.1(c)1A: space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.
[3] Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.
[4] See Standards Tables 120.1-A and 120.1-B.

H. EXHAUST AIR HEAT RECOVERY 140.4(q), 170.2(c)4O

01	02	03	04	05	06	07	08	09	10	11
Fan System Name	Qty	Hours of Operation per Year	Design Supply Airflow Rate	Outdoor Airflow	% Outdoor Air at Full Design Airflow	Exemptions to Exhaust Air Heat Recovery Requirement per 140.4(q) & 170.2(c)4O	Exhaust Air Heat Recovery 140.4(q) & 170.2(c)4O	Type Of Heat Recovery Rating	Required Recovery Ratio	Energy Recovery Bypass

Fan Energy Index (FEI)

01	02	03
Name or Item Tag	FEI Exception	FEI

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f),and (n), 170.2(c)4D 170.2(c)4L or requirements in 141.0(b)2E 180.2(b)2 for altered space conditioning systems.

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats 110.2(b) & (c)[1], 120.2(a) 160.3(a)2A or 141.0(b)2E & 180.2(b)2	Shut-Off Controls 120.2(e) & 160.3(a)2D	Isolation Zone Controls 120.2(g) & 160.3(a)2F	Demand Response 110.12 120.2(b) & 160.3(a)2B	Supply Air Temp. Reset 140.4(f) & 170.2(c)4D	Window Interlocks per 140.4(n) & 170.2(c)4D
SSCU-1 / SSFC-1	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	Auto Timer Switch	EMCS	NA: Would increase energy use	NA: No operable windows

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

H. FAN SYSTEMS & AIR ECONOMIZERS

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

System Name	SSCU-1 / SSFC-1	Quantity	1	Fan System Status	New	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	730	Site Elevation	690	Economizer	NA: <=33 kBtu/h cooling
01	02	03	04			05		06	07	08	09			10	11
Fan Name or Item Tag	Fan Type	Qty	Component			Airflow through Component (%)		Water Gauge (w.g)	Allowance		Design				
									Component Allowance	Fan Allowance (watt/cfm)[3]	Design Electrical Input Power Method		Motor Nameplate Horsepower		Design Electrical Input Power (kW)
SF	Supply	1	Base Allowance for system serving spaces <=6 floors away			730			1.69		Manufacturer provided				0.06
			MERV 13-16 Filter upstream of thermal conditioning equipment			730			1.01						
			Hydronic/DX cooling coil or heat pump coil			730			1.01						
Supply Fan Base Allowance (kW)			Exhaust/Return/Relief/Transfer Fan Base Allowance(kW)						Fan System Allowance (kW)[3]				Fan System Electrical Output (kW)		

[1] FOOTNOTES: Fans serving spaces with design background noise goals below NC35
[2] Low-turndown single-zone VAV fan system must be capable of and configured to reduce airflow to 50 percent of design airflow and use no more than 30 percent of the design wattage at that airflow. No more than 10 percent of the design load served by the equipment shall have fixed loads.
[3] Fan system allowance includes fan system base allowance.
[4] Filter pressure loss can only be counted once per fan system.
[5] Complex Fan System means a fan system that combines a single cabinet fan system with other supply fans, exhaust fans, or both.
[6] Computer room economizers must meet requirements of 140.9(a) and will be documented on the NRCC-PRC-E document..

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Scott Johnson	Documentation Author Signature:
Company: J&R Engineering & Consulting, Inc.	Signature Date:
Address: 16769 Bernardo Center Dr. Suite 1#768	CEA/ HERS Certification Identification (If applicable): M32413
City/State/Zip: San Diego CA 92128	Phone: 858-746-9701

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Scott Johnson	Responsible Designer Signature:
Company: J&R Engineering & Consulting, Inc.	Date Signed: 2025-09-29
Address: 16769 Bernardo Center Drive, Suite 1 #768	License: M32413
City/State/Zip: San Diego CA 92128	Phone: 858-746-9701

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Form/Title	Systems/Spaces To Be Field Verified
NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.	Carrier-Toshiba RAV-BP24;
NRCA-MCH-03-A - Constant Volume Single Zone HVAC NOTE: This form does not automatically move to "Yes". If Constant Volume Single Zone HVAC Systems are included in the scope, permit applicant should move this form to "Yes".	Carrier-Toshiba RAV-BP24;
NRCA-MCH-11-A Automatic Demand Shed Controls	Carrier-Toshiba RAV-BP24;
NRCA-MCH-16-A Supply Air Temperature Reset Controls	Carrier-Toshiba RAV-BP24;
NRCA-MCH-18-A Energy Management Control Systems	Carrier-Toshiba RAV-BP24;

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

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

01		02
		Plan sheet or construction document location
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	Yes	M-Sheets

J. VENTILATION AND INDOOR AIR QUALITY

[5] For lecture halls with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code.
[6] 120.2(e)3 requires system serving rooms that are required by 130.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices 250ft² or smaller, multipurpose rooms less than 1,000 ft², classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by 130.1(c).

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)

This section does not apply to this project.

M. COOLING TOWERS

This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title
NRCI-MCH-01-E - Must be submitted for all buildings

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124851 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑

ALPHASTUDIO DESIGN GROUP
6152 INNOVATION WAY
CARLSBAD, 92009
760-431-2444
www.alphastudio-design.com

ARCHITECT OF RECORD

LICENSED ARCHITECT
PAUL R. GALLEGOS
No. C24063
EXP. 01/27
STATE OF CALIFORNIA

ENGINEER OF RECORD

REGISTERED PROFESSIONAL ENGINEER
SCOTT H. JOHNSON
No. M32413
Exp. 6/30/27
MECHANICAL
STATE OF CALIFORNIA

LAKESIDE
UNION SCHOOL DISTRICT

KITCHEN EXPANSION

LEMON CREST ELEMENTARY SCHOOL

12463 LEMON CREST DR.
LAKESIDE, CA 92040

LAKESIDE UNION SCHOOL DISTRICT
12335 WOODSIDE AVE LAKESIDE CA 92040

REVISIONS

MARK	DATE	DESCRIPTION
	4/14/2026	DSA V3 SUBMITTAL

PROJECT NO: #Pln

MODEL FILE:
25-0 LUSD Lemon Crest Kitchen Expansion.pln

PLOT DATE:
4/9/2026

SHEET TITLE

MECHANICAL
TITLE 24

M4.1

J&R Engineering & Consulting, Inc.
16769 Bernardo Center Drive, Suite 1 #768
San Diego, CA 92128

Z:\Shared\AlphaStudio\ASDG Projects\Active Projects\25-003 LUSD Lemon Crest Kitchen Expansion\Archi\CAD\25-0 LUSD Lemon Crest Kitchen Expansion.pln

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G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM

This table is used to demonstrate compliance for nonresidential occupancies with distribution requirements in 120.3 cnd 140.5. For multifamily and hotel/motel occupancies, compliance is demonstrated with requirements 110.3(c), 160.4, 170.2(d).

Mandatory Pipe Insulation All Occupancies

13	☐	For systems serving dwelling units, pipe insulation must meet the minimum insulation requirements in Table 160.4-A (see blow) except: • Piping that penetrates framing members shall not be required to have pipe insulation for the distance of the framing penetration. Piping that penetrates metal framing shall use grommets, plugs, wrapping or other insulating material to assure that no contact is made with the metal framing. Insulation shall abut securely against all framing members • Piping installed in interior or exterior walls shall not be required to have pipe insulation if all of the requirements are met for compliance with Quality Insulation Installation (QII) as specified in the Reference Residential Appendix RA3.5. • Piping surrounded with a minimum of 1 inch of wall insulation, 2 inches of crawlspace insulation, or 4 inches of attic insulation, shall not be required to have pipe insulation.
14	☒	For systems serving nonresidential spaces, pipe insulation for the following applications is specified to comp\y with Table 120.3-A (see below) per 120.3: • Recirculating system piping, including supply and return piping of the water heater • The first 8 ft of hot and cold outlet piping, including between storage tank and heat trap, for a nonrecirculating storage system • Pipes that are externally heated
15	☐	Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service per 120.3(b) / 160.4(f). Pipe insulation buried below grade must be installed in a water proof and non-crushable casing or sleeve.

TABLE 120.3-A / 160.4-A PIPE INSULATION THICKNESS

Fluid Temperature Range (°F)	Conductivity Range (Btu-in per hour per ft² per °F)	Insulation Mean Rating Temp (°F)	Nominal Pipe Diameter (in)			
			< 1	1 to < 1.5	1.5 to < 4	1.5 to < 4 Multifamily & Hotel/Motel
			Minimum Insulation Required			
105-140	0.22 - 0.28	100	1.0 in or R-7.7	1.5 in or R-12.5	1.5 in or R-11	2.0 in or R-16

E. ADDITIONAL REMARKS

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

F. DOMESTIC HOT WATER EQUIPMENT

This table is used to demonstrate compliance with mandatory equipment requirements in 110.1 and 110.3. Compliance with prescriptive requirements in 140.5(c) / 170.2(d) must also be demonstrated and with 141.0 / 180.1/ 180.2 for addition and alteration scopes.

Equipment Schedule: Water Heating Efficiency and Standby Loss

03		04			05		06		
System Name	A O Smith DRE-52-15	Exception to 140.5(c)/ 170.2(d)3			☐	Gas Service Water Heating System >= 1MMBtu/h[1]	Capacity-weighted Average Efficiency %		
07	08	09	10		11	12	13	14	15
Name or Item Tag	Equipment Type	Volume (gal)	Rated Input Capacity (Btu/h)	Max GPM/ First Hour Rating (FHR)	Rated Efficiency	Minimum Efficiency Required	Efficiency Unit	Designed Standby Loss	Maximum Standby Loss
A O Smith DRE-52-15	Commercial Electric Storage Water Heater	50	51,182	FHR >=75	0.98	0.93	UEF		

[1]FOOTNOTE: In systems >= 1MMBtu/h with multiple units, gas water heaters with input capacity > 100,000 Btu/h may meet 50% Et requirements via an input capacity-weighted average.

Water Heating Equipment All Occupancies

	Yes	No	Not Applicable	Requirement
18	☐	☐	☒	Unfired storage tank insulation shall have Internal + External >=R-16 OR External >=R-3.5. Label required per 110.3(c)3
19	☐	☐	☒	New state buildings 60% of energy for service water heating from site solar energy or recovered energy per 110.3(c)5
20	☐	☐	☒	Isolation valves for instantaneous water heater with input rating >6.8 kBTUH or 2 kW has been specified per 110.3(c)6
21	☐	☐	☒	School buildings < 25,000 ft² and < 4 stories must install a heat pump water heating system per 140.5(a)1. Water heating systems serving an individual bathroom space may be an irstantaneous electric water heater.

This document is used to demonstrate compliance for nonresidential occupancies with requirements in 110.1, 110.3, 120.3, and 140.5, and with requirements in 141.0 for additions and alterations, for domestic water heating scopes using the prescriptive path. For high-rise residential and hotel/motel occupancies compliance is demonstrated with requirements in 110.1, 110.3, 160.4 and 170.2(d), and with requirements 180.1 for additions and 180.2 for alterations.

A. GENERAL INFORMATION

01	Project Location (city)	Lakeside	02	Climate Zone	10
03	Occupancy Types Within Project (select all that apply):				

● All Other Occupancies

B. PROJECT SCOPE

This table includes domestic water heating systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive paths outlined in 140./ 170.2(d) and 141.0(a)/ 180.1, or 141.0(b)2N / 180.2 for additions or alterations. Solar water heating systems are documented on the NRCC-SAB compliance document. Combined hydronic water heating systems are documented on the NRCC-MCH compliance document.

01	02	03	
My project consists of (check all that apply):	System Type[1,2]	System Components	
☒ New system (DHW system being installed for the first time)	Individual System (serving nonresidential spaces)	☒ Equipment:	☒ Distribution ☒ Controls
☐ System Alteration (equipment, distribution or controls)		☐ Equipment:	☐ Distribution ☐ Controls

[1]FOOTNOTES: Point of use water heaters, or other non-central systems used to serve nonresidential spaces, are considered individual systems.
[2] Dwelling units refers to hotel/motel guest rooms and units in a multifamily residential occupancy.
[3] DHW systems serving 2 or more dwelling units are considered "Central Systems" for multifamily occupancies

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with water heating requirements. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. or the table indicated as not compliant for guidance.

01	02	03	04
Domestic Hot Water Equipment	Distribution Systems	Controls	**Compliance Results**
Table F	Table G	Table H	
Yes	Yes	Yes	COMPLIES

D. EXCEPTIONAL CONDITIONS

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

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Scott Johnson	Documentation Author Signature:
Company: J&R Engineering & Consulting, Inc.	Signature Date: 2025-09-29
Address: 16769 Bernardo Center Dr. Suite 1#768	CEA/ HERS Certification Identification (if applicable): M32413
City/State/Zip: San Diego CA 92128	Phone: 858-746-9701

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Scott Johnson	Responsible Designer Signature:
Company: J&R Engineering & Consulting, Inc.	Date Signed: 2025-09-29
Address: 16769 Bernardo Center Drive, Suite 1 #768	License: M32413
City/State/Zip: San Diego CA 92128	Phone: 858-746-9701

I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Tabie E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-PLB-E - Must be submitted for all buildings

J. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no forms required for this project.

K. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no forms required for this project.

H. DOMESTIC HOT WATER CONTROLS

This table is used to demonstrate compliance with control requirements in 110.3 for all occupancies. For multifamily residential and hotel/motel occupancies, compliance is also demonstrated with requirements in 160.4(e) / 170.2(d).

	Yes	No	Not Applicable	Requirement:
01	☒	☐	☐	Construction documents require manufacturer certification that service water-heating systems are equipped with autcmatic temperature controls capable of adjusting temperature settings per 110.3(a).
02	☐	☐	☒	Systems with capacity > 167,000 BTUH equipped with outlet temperature controls per 110.3(c)1 unless covered by California Plumbing Code 613.0.
03	☐	☐	☒	Controls for circulating pumps or electrical heat trace systems are capable of automatically turning off the system per §110.3(c)2 unless systems serves healthcare facility.
04	☐	☐	☒	For recirculation systems serving multiple dwelling units, design includes automatic pump controls per 170.2(d) or 180.1(b)3 for additions.
05	☐	☐	☒	For recirculation systems serving individual dwelling units, design includes manual on/off controls as specified in Reference Appendix RA4.4.9 per 170.2(d).
06	☐	☐	☒	Combustion air positive shut-off shall be provided per 160.4(3).on all newly installed commercial boilers as follows: • Boilers with input capacity >= 2.5 MM8tu/h, in which the boiler is designed to operate with a nonpositive vent static pressure • Boilers where one stack serves two or more boilers with a total combined input capacity per stack of 2.5 MMBtu/h.
07	☐	☐	☒	Boiler combustion air fans with motor >= 10 hp shall meet one of the following • The fan motor shall be driven by a variable speed drive OR • The fan motor shall include controls that limit the fan motor demand to <=30% of the total design wattage at 50% of the design air volume.
08	☐	☐	☒	Newly installed boilers with an input capacity [d.gte/] 5MMBtu/h and a steady state full-load combustion efficiency < 50% shall maintain excess (stack-gas) oxygen concentrations <= 5% by volume on a dry basis over firing rates of 20-100%. Combustion air volume shall be controlled with respect to firing rate or flue gas oxygen concentration. Use of a common gas and combustion air control linkage or jack shaft is prohibited.

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ARCHITECT OF RECORD

LICENSED ARCHITECT PAUL R. GALLEGOS No. C24063 EXP. 01/27 STATE OF CALIFORNIA

ENGINEER OF RECORD

REGISTERED PROFESSIONAL ENGINEER SCOTT H. JOHNSON No. M32413 Exp. 6/30/27 MECHANICAL STATE OF CALIFORNIA

LAKESIDE UNION SCHOOL DISTRICT

KITCHEN EXPANSION

LEMON CREST ELEMENTARY SCHOOL

12463 LEMON CREST DR.
LAKESIDE, CA 92040

LAKESIDE UNION SCHOOL DISTRICT
12335 WOODSIDE AVE LAKESIDE CA 92040

REVISIONS

MARK	DATE	DESCRIPTION
	4/14/2026	DSA V3 SUBMITTAL

PROJECT NO: #Pln

MODEL FILE:
25-0 LUSD Lemon Crest Kitchen Expansion.pln

PLOT DATE:
4/9/2026

SHEET TITLE

MECHANICAL
TITLE 24

M4.2

J&R Engineering & Consulting, Inc.
16769 Bernardo Center Drive, Suite 1 #768
San Diego, CA 92128

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ABBREVIATIONS

A	AMPERE (AMPS)
AC	ALTERNATING CURRENT
AF	AMPS-FRAME (RATING)
AIC	AMP INTERRUPTING CURRENT
AM	AMMETER
AS	AMP SWITCH (FUSED SWITCH RATING)
AT	AMPS-TRIP (RATING)
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
BLDG	BUILDING
C	CONDUIT
CB	CIRCUIT BREAKER
CO	CONDUIT ONLY
CT	CURRENT TRANSFORMER
CU	COPPER
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
DPDT	DOUBLE POLE DOUBLE THROW
DPST	DOUBLE POLE SINGLE THROW
DWG	DRAWING
EX	EXISTING
FA	FIRE ALARM
FLA	FULL LOAD AMPS
FVR	FULL VOLTAGE REVERSING
FVNR	FULL VOLTAGE NON-REVERSING
GFI	GROUND FAULT INTERRUPTER
GRD/GND	GROUND
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HZ	HERTZ
KW	KILOWATT
LCL	LONG CONTINUOUS LOAD
LRA	LOCKED ROTOR AMPS
LTG	LIGHTING
MCC	MOTOR CONTROL CENTER
MCM (KCM)	THOUSAND CIRCULAR MILS
MECH	MECHANICAL
NC	NORMALLY CLOSED
NF	NON-FUSED
NO	NORMALLY OPEN/NUMBER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
P	POLE
PH	PHASE
POC	POINT OF CONNECTION
PRS	PVC COATED RIGID STEEL (CONDUIT)
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE DUCT
SWBD	SWITCHBOARD
TYP	TYPICAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
V	VOLT
VA	VOLTAMPERES
VM	VOLTMETER
VL	VERIFY LOCATION
W	WIRE/WATTS
WP	WEATHERPROOF (NEMA TYPE 3R)
WT	WATERTIGHT
XP	EXPLOSION PROOF (RATED FOR AREA HAZARD)

ELECTRICAL SYMBOL LEGEND

LIGHTING

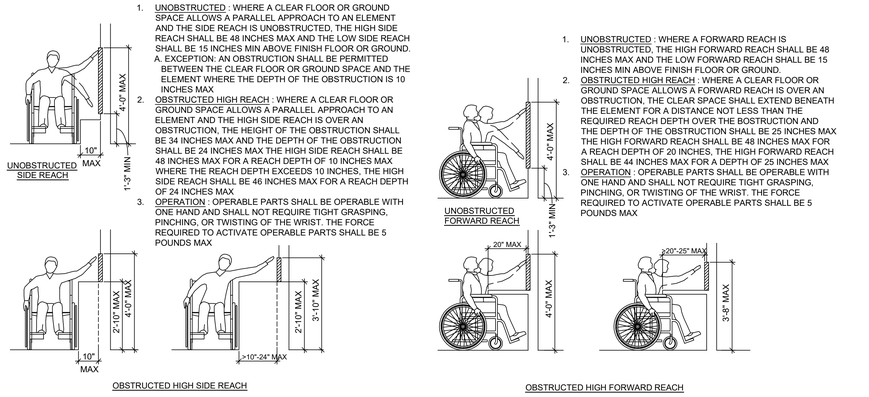
- LIGHTING FIXTURE DESIGNATION
- LIGHTING FIXTURE, CEILING OR WALL MOUNTED AS SHOWN.
- LED LIGHT FIXTURE
- LIGHTING FIXTURE ON EMERGENCY CIRCUIT (MINIMUM 90 MIN. BACKUP). E22
- EXIT SIGN WITH DIRECTION ARROWS AS INDICATED. SHADED QUADRANT INDICATES FACE.
- LED STRIP LIGHT
- S_a SINGLE POLE SWITCH, SUBSCRIPT WHEN SHOWN INDICATES FIXTURES CONTROLLED. *48" AFF. (U.O.N.) HEIGHT PER DETAILS #/E1.0.
- CEILING MOUNTED OCCUPANCY SENSOR LIGHTING CONTROL — E22
- DIGITAL LIGHTING CONTROL TYPICAL ROOM REQUIREMENTS. — E22

DISTRIBUTION EQUIPMENT

- DRAW OUT TYPE EQUIPMENT
- VACUUM CIRCUIT BREAKER, RATING AS NOTED.
- AIR INTERRUPTER SWITCH AND FUSE
- AIR INTERRUPTER
- FUSE
- POWER TRANSFORMER, RATING AS NOTED
- POWER CIRCUIT BREAKER DRAWOUT
- AUTOMATIC TRANSFER SWITCH. SEE SCHEDULE
- (A) AMMETER
- (V) VOLTMETER
- CIRCUIT BREAKER
  - 200AF — 200AMP FRAME
  - 200AT — 200AMP TRIP
  - 3P — 3 POLE
  - 10000AIC — 10000 AMPS INTERRUPTING CURRENT
- FUSED SWITCH
  - 200AS — 200AMP SWITCH
  - 200AF — 200AMP FUSE
  - 3P — 3 POLE
- (M) UTILITY COMPANY METER

POWER CONTINUED

- DUPLEX RECEPTACLE, IN FLOOR BOX
- DUPLEX RECEPTACLE, WALL MOUNTED, +18" A.F.F. (U.O.N.)
- HORZ. RECEPTACLE, WALL MOUNTED HORIZONTALLY, +18" A.F.F. (U.O.N.)
- FOURPLEX RECEPTACLE, WALL MOUNTED, +18" A.F.F. (U.O.N.)
- RECEPTACLE MOUNTED +6" ABOVE COUNTER BACKSPLASH SEE ARCHITECTURAL PLANS FOR REQUIRED MOUNTING HEIGHT PRIOR TO ROUGH-IN.
- WP/U DUPLEX RECEPTACLE WITH TWO USB PORTS (LEVITON #USB2-W OR EQUAL) WALL MOUNTED, +18" A.F.F. (U.O.N.)
- WP/GFI/U DUPLEX GROUND FAULT INTERRUPTING RECEPTACLE WITH TWO USB PORTS (LEVITON #USB2-W OR EQUAL) IN WEATHERPROOF ENCLOSURE WITH WHILE IN USE COVER, WALL MOUNTED, +18" A.F.F. (U.O.N.)
- SWITCH CONTROLLED DUPLEX RECEPTACLE +18" U.O.N.
- GFI DUPLEX GROUND FAULT INTERRUPTING RECEPTACLE +18" A.F.F. (U.O.N.)
- WP DUPLEX RECEPTACLE IN WEATHERPROOF ENCLOSURE WITH WHILE IN USE COVER +18" A.F.F. (U.O.N.)
- WP/L DUPLEX RECEPTACLE IN WEATHERPROOF "LOCKING" ENCLOSURE +18" A.F.F. (U.O.N.) (SEE TYPICAL DETAILS E3 SERIES SHEETS AND SPECIFICATIONS FOR REQUIRED TYPE).
- K SPECIAL PURPOSES KITCHEN EQUIPMENT RECEPTACLE IN FLOOR BOX. SEE KITCHEN PLANS FOR EXACT TYPE. FIELD VERIFY EXACT OUTLET CONFIGURATION WITH EQUIPMENT SUPPLIER PRIOR TO ORDERING.
- FOURPLEX RECEPTACLE, IN FLOOR BOX
- CR TWIST LOCK RECEPTACLE CEILING MOUNTED ADJACENT TO RETRACTABLE CORD REEL SET.
- CR CEILING MOUNTED HEAVY DUTY RETRACTABLE CORD REEL BY REELCRAFT #L4545-123-TAC-12/3-45FT. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION. REFERENCE STRUCTURAL DETAIL #3/6-6.1 FOR SUPPORT.
- J JUNCTION BOX, CEILING OR WALL MOUNTED
- H HAND DRYER CONNECTION, SEE ARCHITECTURAL FOR MOUTNING HEIGHT.
- FUSED DISCONNECT SWITCH, WHERE SHOWN NF = NON-FUSED.
- S_M MANUAL MOTOR STARTER +48" A.F.F. OR ON EQUIPMENT (U.O.N.)
- (1) MOTOR CONNECTION, NUMERAL INDICATES HORSEPOWER.
- AC MECHANICAL EQUIPMENT TAG (SEE MECHANICAL DRAWINGS FOR DESCRIPTION)
- CONDUIT AND WIRE, CONCEALED IN CEILING OR WALL
- CONDUIT AND WIRE, CONCEALED IN OR UNDER FINISHED FLOOR OR UNDER FINISHED GRADE.
- FLEXIBLE CONDUIT CONNECTION
- BRANCH CIRCUIT HOMERUN TO PANEL. SLASHES INDICATE NUMBER OF CONDUCTORS. EQUIPMENT GROUND WIRE NOT INDICATED U.O.N. #12 CONDUCTORS ARE MINIMUM, NO HASH MARKS = MIN (2) #12
- 3/4" CONDUIT STUBBED FROM DEVICE TO ABOVE ACCESSIBLE CEILING
- #8 BRANCH CIRCUIT HOMERUN, NUMBER INDICATES INCREASED CONDUCTOR SIZE, CONDUCTORS SHALL REMAIN AS INDICATED FOR SIZE THROUGHOUT THE ENTIRE CIRCUIT.
- PANELBOARD, SURFACE MOUNTED.
- PANELBOARD, RECESSED
- T STEP-DOWN TRANSFORMER
- DISTRIBUTION SWITCHBOARD



1. UNOBSTRUCTED : WHERE A CLEAR FLOOR OR GROUND SPACE ALLOWS A PARALLEL APPROACH TO AN ELEMENT AND THE SIDE REACH IS UNOBSTRUCTED, THE HIGH SIDE REACH SHALL BE 48 INCHES MAX AND THE LOW SIDE REACH SHALL BE 15 INCHES MIN ABOVE FINISH FLOOR OR GROUND.
   A. EXCEPTION: AN OBSTRUCTION SHALL BE PERMITTED BETWEEN THE CLEAR FLOOR OR GROUND SPACE AND THE ELEMENT WHERE THE DEPTH OF THE OBSTRUCTION IS 10 INCHES MAX
2. OBSTRUCTED HIGH REACH : WHERE A CLEAR FLOOR OR GROUND SPACE ALLOWS A PARALLEL APPROACH TO AN ELEMENT AND THE HIGH SIDE REACH IS OVER AN OBSTRUCTION, THE HEIGHT OF THE OBSTRUCTION SHALL BE 34 INCHES MAX AND THE DEPTH OF THE OBSTRUCTION SHALL BE 24 INCHES MAX THE HIGH SIDE REACH SHALL BE 48 INCHES MAX FOR A REACH DEPTH OF 10 INCHES MAX WHERE THE REACH DEPTH EXCEEDS 10 INCHES, THE HIGH SIDE REACH SHALL BE 46 INCHES MAX FOR A REACH DEPTH OF 24 INCHES MAX
3. OPERATION : OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS MAX

OBSTRUCTED HIGH SIDE REACH

1. UNOBSTRUCTED : WHERE A FORWARD REACH IS UNOBSTRUCTED, THE HIGH FORWARD REACH SHALL BE 48 INCHES MAX AND THE LOW FORWARD REACH SHALL BE 15 INCHES MIN ABOVE FINISH FLOOR OR GROUND.
2. OBSTRUCTED HIGH REACH : WHERE A CLEAR FLOOR OR GROUND SPACE ALLOWS A FORWARD REACH IS OVER AN OBSTRUCTION, THE CLEAR SPACE SHALL EXTEND BENEATH THE ELEMENT FOR A DISTANCE NOT LESS THAN THE REQUIRED REACH DEPTH OVER THE BOSTRUCTION AND THE DEPTH OF THE OBSTRUCTION SHALL BE 25 INCHES MAX THE HIGH FORWARD REACH SHALL BE 48 INCHES MAX FOR A REACH DEPTH OF 20 INCHES, THE HIGH FORWARD REACH SHALL BE 44 INCHES MAX FOR A DEPTH OF 25 INCHES MAX
3. OPERATION : OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS MAX

OBSTRUCTED HIGH FORWARD REACH

MOUNTING HEIGHT - SIDE AND FORWARD REACH RANGE

NO SCALE

1 / E1.0

GENERAL PROJECT NOTES:

1. UNLESS WHERE OTHERWISE NOTED, ALL WORK INDICATED ON THESE DRAWINGS SHALL BE CONSIDERED NEW WORK.
2. UNLESS WHERE OTHERWISE NOTED, ALL DIMENSIONS ARE TO BE CENTERLINE OF THE DEVICE.
3. "GENERAL NOTES" SHOWN ON AN INDIVIDUAL DRAWING APPLY TO ALL WORK SHOWN ON THAT SHEET. "KEY NOTES" ONLY APPLY TO SPECIFIC ITEMS WHERE ANNOTATED AT SPECIFIC LOCATIONS. SOME KEY NOTES MAY NOT APPLY TO ANY SPECIFIC ITEMS.
4. FOR TWO STORY BUILDING CONSTRUCTION, NO CONDUITS SHALL BE ROUTED HORIZONTALLY WITHIN THE FLOOR SLAB OF THE SECOND FLOOR.
5. UNLESS SPECIFICALLY SHOWN ON THESE PLANS, NO STRUCTURAL MEMBER SHALL BE CUT, NEITHER DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT.

GENERAL DEMOLITION NOTES:

1. ALL ELECTRICAL EQUIPMENT, EXPOSED RACEWAY AND CONDUIT, OUTLET BOXES AND RINGS, AND DEVICES ARE TO BE REMOVED, EXCEPT WHERE SHOWN TO REMAIN. EXISTING WIRING, WHETHER EXPOSED, IN CONDUIT OR RACEWAY IS TO BE REMOVED TO THE GREATEST EXTENT POSSIBLE.
2. THE ELECTRICAL CONTRACTOR IS TO DIRECT THE REMOVAL OF THE ABOVE LISTED WORK.

MEP COMPONENT ANCHORAGE NOTE:

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA- APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7- 16 CHAPTERS 13, 26, AND 30:

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

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

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

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

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7 SECTION 13.3 AS DEFINED IN ASCE 7 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8± AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. THE MEP DESIGN PROFESSIONAL ENGINEER RESPONSIBLE FOR CONTENT ON THESE SHEETS HAS VERIFIED THAT THE DESIGN METHODS IDENTIFIED BELOW ARE IN ACCORDANCE WITH DSA IR 16-13.

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

- MP☐MD☐PP☐ E ☒ OPTION 1: PROJECT SPECIFIC DESIGN
- MP☐MD☐PP☐ E ☐ OPTION 2: DESIGN BASED ON OSHPD OPM, WITHIN PROJECT SUBMITTAL
- MP☐MD☐PP☐ E ☐ OPTION 3: DESIGN BASED ON OSHPD OPM, DEFERRED SUBMITTAL

FIRE RATED ASSEMBLIES NOTE:

1. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT DESCRIPTION AND DETAIL OF ALL FIRE RATED ASSEMBLIES.

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LICENSED ARCHITECT
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No. C24063
EXP. 01/27
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ENGINEER OF RECORD

LAKESIDE UNION SCHOOL DISTRICT

KITCHEN EXPANSION

LEMON CREST ELEMENTARY SCHOOL

12463 LEMON CREST DR.
LAKESIDE, CA 92040

LAKESIDE UNION SCHOOL DISTRICT
12335 WOODSIDE AVE LAKESIDE CA 92040

REVISIONS

MARK	DATE	DESCRIPTION
	4/14/2026	DSA V3 SUBMITTAL

PROJECT NO: #Pln

MODEL FILE:
25-0 LUSD Lemon Crest Kitchen Expansion.pln

PLOT DATE:
4/9/2026

SHEET TITLE

ELECTRICAL LEGEND AND NOTES

E-1.0

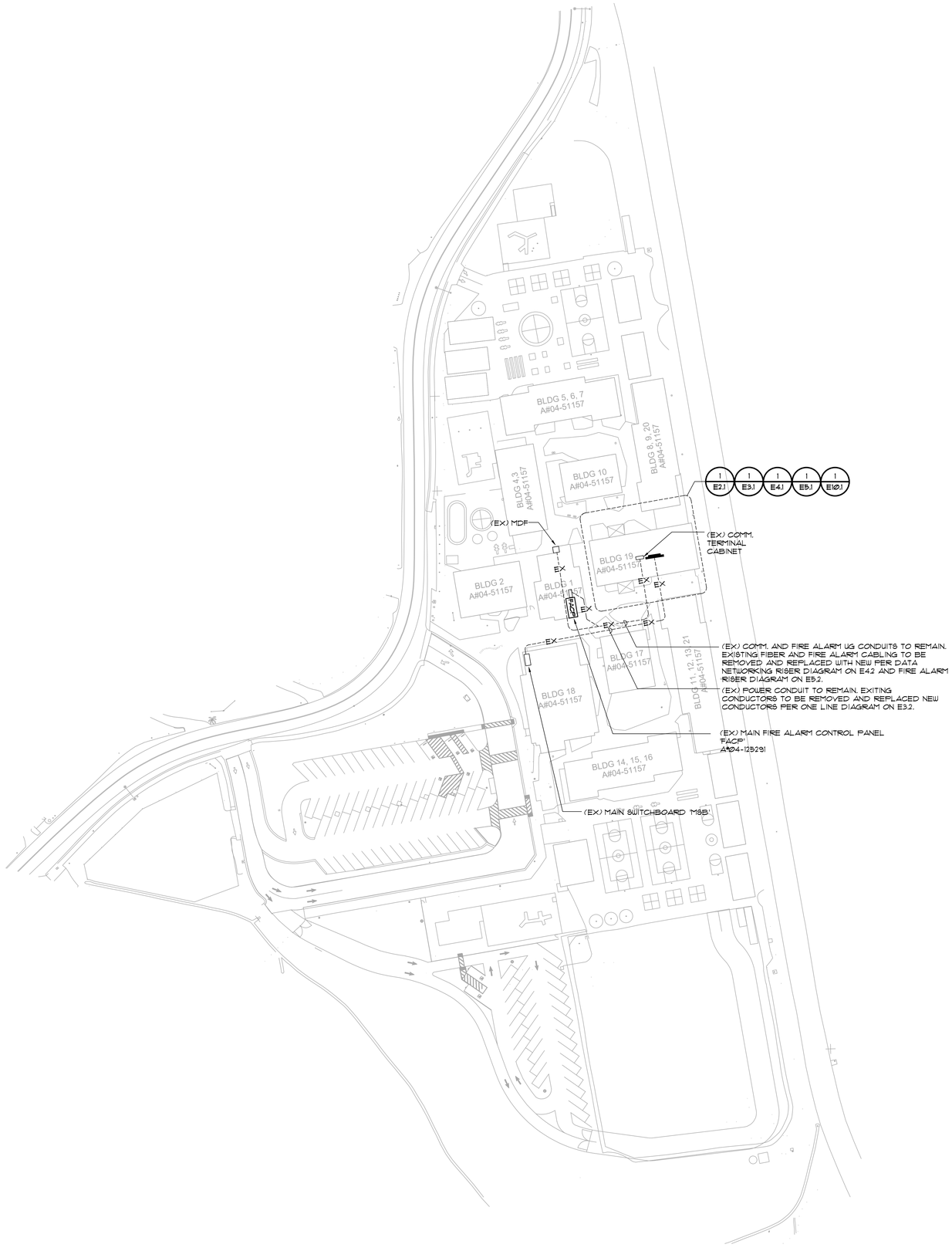
REGISTERED PROFESSIONAL ENGINEER
ELECTRICAL
No. E 14781
Exp. 6-30-2027
STATE OF CALIFORNIA

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#24056 3/20/2026

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1 OVERALL SITE PLAN
SCALE: 1"=50'

NORTH

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LAKESIDE
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KITCHEN EXPANSION

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REVISIONS

MARK	DATE	DESCRIPTION
	4/14/2026	DSA V3 SUBMITTAL

PROJECT NO: #Pln

MODEL FILE:
25-0 LUSD Lemon Crest Kitchen Expansion.pln

PLOT DATE:
4/9/2026

SHEET TITLE

OVERALL SITE PLAN

E-1.1

REGISTERED PROFESSIONAL ENGINEER
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STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name: LEMON CREST ES KITCHEN	Report Page:	(Page 1 of 4)
Project Address:	Date Prepared:	2025-09-30T19:58:48-04:00

This document is used to demonstrate compliance with mandatory requirements in 130.5, for electrical systems in newly constructed nonresidential and hotel/motel occupancies and 160.6 and 160.9 for electrical systems in newly constructed multifamily occupancies. Additions and alterations to electrical service systems in nonresidential and hotel/motel occupancies will also use this document to demonstrate compliance per 141.0(a) or 141.0(b)2P for alterations. For multifamily addition or alterations compliance will be documented per 180.1(a) or 180.2 (b)4bii

A. GENERAL INFORMATION

01	Project Location (city)	LAKESIDE	02	Climate Zone	10
			03	Occupancy Types Within Project:	School or Classroom

B. PROJECT SCOPE

This table includes electrical systems that are within the scope of the permit application.

01	02	03	04	05	06	07
Electrical Service Designation/ Description	Scope of Work [1]	Rating[2] (kVA)	Utility Provided Metering System Exception to 130.5(a)/160.6(a)	System subject to CA Elec Code Article 517 Exception to 130.5(a)and (b)	Demand Response Controls	Provides power to dwelling units/common living areas only in multifamily occupancy
MSB	Add/Alt to feeders and branch circuits only	---	☐	☐	Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections 120.2/160.3, 130.1/160.5, and 130.3/160.5, and mechanical, indoor lighting, and sign lighting Certificate of Compliance documents will indicate when demand response controls are required.	☐

[1]*FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c)/160.6(c), no other requirements from 130.5/160.6 are required.*
[2]*If common use areas in a multifamily are submetered, rating is for submeter size serving common use areas.*
[3]*Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.*

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name: LEMON CREST ES KITCHEN	Report Page:	(Page 2 of 4)
	Date Prepared:	2025-09-30T19:58:48-04:00

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D, Exceptional Conditions for guidance or see applicable Table referenced below.

01		02		03		04	05	06
Service Electrical Metering 130.5(a)/ 160.6(a) (See Table F)	AND	Separation for Monitoring 130.5(b)/ 160.6(b) (See Table G)	AND	Voltage Drop 130.5(c)/ 160.6(c) (See Table H)	AND	Controlled Receptacles 130.5(d)/ 160.6(d) (See Table I)	Electric Ready 160.9 (See Table J)	**Compliance Results**
	AND		AND	Yes	AND			COMPLIES

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

H. VOLTAGE DROP

This table includes entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with 130.5(c)/ 160.6(c). For alterations, only the altered circuits must demonstrate compliance per 141.0(b)2Pii/ 180.2(b)4Bvic.

01	02			03	04	05	
Electrical Service Designation/Description	Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method			Location of Voltage Drop Calculations[1]	Sheet Number for Voltage Drop Calculations in Construction Documents	Field Inspector	
						Pass	Fail
MSB	☒ Voltage drop less than 5%	☐	Permitted by CA Elec Code (Exception to 130.5(c))*	Contractor Responsible		☐	☐

** NOTES: If "Permitted by CA Elec Code " is selected under Compliance Method above, please indicate where the exception applies in the space provided below.*

[1] *FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".*

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name: LEMON CREST ES KITCHEN	Report Page:	(Page 3 of 4)
	Date Prepared:	2025-09-30T19:58:48-04:00

K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection 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
NRCI-ELC-E - Must be submitted for all buildings

L. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name: LEMON CREST ES KITCHEN	Report Page:	(Page 4 of 4)
Project Address:	Date Prepared:	2025-09-30T19:58:48-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: MONICA HANSEN	Documentation Author Signature:
Company: JOHNSON CONSULTING ENGINEERS	Signature Date: 9/30/25
Address: 12875 BROOKPRINTER PL, SUITE 300	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: POWAY, CA 92064	Phone: 858-679-4030

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: MONICA HANSEN	Responsible Designer Signature:
Company: JOHNSON CONSULTING ENGINEERS	Date Signed: 9/30/25
Address: 12875 BROOKPRINTER PL, SUITE 300	License: E 14781
City/State/Zip: POWAY, CA 92064	Phone: 858-679-4030

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: LEMON CREST ES KITCHEN	Report Page:	(Page 1 of 7)
Project Address:	Date Prepared:	2025-09-30T19:57:09-04:00

This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.

A. GENERAL INFORMATION

01	Project Location (city)	LAKESIDE	04	Total Conditioned Floor Area (ft²)	2,109
02	Climate Zone	10	05	Total Unconditioned Floor Area (ft²)	0
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1
● School or Classroom					

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☒ New Lighting System	Area Category Method	2109	N/A	0
☐ New Lighting System - Parking Garage	N/A	0	N/A	0
Total Area of Work (ft²)	2109			

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: LEMON CREST ES KITCHEN	Report Page:	(Page 2 of 7)
	Date Prepared:	2025-09-30T19:57:09-04:00

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 /170.2(e)	Allowed Lighting Power per 140.6(b) /170.2(e) Watts						Adjusted Lighting Power per 140.6(a) /170.2(e) (Watts)					Compliance Results
	01	02	03	04		05		06	07		08	09
	Complete Building 140.6(c)1	Area Category 140.6(c)2 /170.2(e)4	Area Category Additional 140.6(c)2G / 170.2(e)4Av (+)	Tailored 140.6(c)3 /170.2(e)4B (+)		**Total Allowed** (Watts)		Total Designed (Watts)	Adjustments PAF Lighting Control Credits 140.6(a)2 /170.2(e)1B (-)		**Total Adjusted** (Watts) *Includes Adjustments	**05 must be >= 08 140.6 /170.2(e)**
	[See Table I]	[See Table I]	[See Table I]	[See Table I]				[See Table F]	[See Table P]			
Conditioned		1,749.4			x	1,749.4	≥	1,020		=	1020	COMPLIES
Unconditioned					=		≥			=		
Controls Compliance (See Table H for Details)												COMPLIES
Rated Power Reduction Compliance (See Table Q for Details)												

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: LEMON CREST ES KITCHEN	Report Page:	(Page 3 of 7)
	Date Prepared:	2025-09-30T19:57:09-04:00

F. INDOOR LIGHTING FIXTURE SCHEDULE

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 documented in Table T. If using Table T to document lighting in multifamily common use areas providing provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change [1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)1 / 170.2(e)1C.	Design Watts	Field Inspector	
									Pass	Fail
A	LED 2X4	No	NA	50	Mfr. Spec	14	No	700	☐	☐
K	LED 2X4	No	NA	50	Mfr. Spec	6	No	300	☐	☐
G	4' LED STRIP	No	NA	20	Mfr. Spec	1	No	20	☐	☐
						Total Designed Watts: CONDITIONED SPACES		1,020		

[1] *FOOTNOTE: 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 automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.*

[2] *Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) /160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.*

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

01	02	03	
		Field Inspector	
		Pass	Fail
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C	☐	☐
NA < 4,000W subject to multilevel	See Area/Space Level Controls	☐	☐

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: LEMON CREST ES KITCHEN	Report Page:	(Page 4 of 7)
	Date Prepared:	2025-09-30T19:57:09-04:00

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls

04	05	06	07	08	09	10	11	12		
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) /160.5(b)4A	Multi-Level Controls 130.1(b) /160.5(b)4B	Shut-Off Controls 130.1(c) / 160.5(b)4C	Primary/Sky lit Daylighting 130.1(d) /160.5(b)4D	Secondary Daylighting 130.1(d) 160.5(b)4D	Interlocked Systems 140.6(a)1/1 70.2(e)2A	Field Inspector		
									Pass	Fail
KITCHEN	Kitchen/ Food Preparation	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No		☐	☐
CUSTODIAN	All Other Space Types	Readily Accessible	NA: Enclosed area <100SF	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No		☐	☐
LIBRARY	Library - Reading Area	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No		☐	☐
								13		
								Plan Sheet Showing Daylit Zones:		
								E2.1		

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods in 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used .

Conditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
					Area Category	PAF
KITCHEN	Kitchen/ Food Preparation	0.95	540	513	No	No
LIBRARY	Library - Reading Area	0.8	1,522	1,217.6	No	No
CUSTODIAN	All Other Space Types	0.4	47	18.8	No	No
		TOTALS:	2,109	1,749.4	See Tables J, or P for detail	

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: LEMON CREST ES KITCHEN	Report Page:	(Page 5 of 7)
	Date Prepared:	2025-09-30T19:57:09-04:00

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS

This section does not apply to this project.

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: LEMON CREST ES KITCHEN	Report Page:	(Page 6 of 7)
	Date Prepared:	2025-09-30T19:57:09-04:00

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

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
NRCI-LTI-E - Must be submitted for all buildings

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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. 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

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	KITCHEN; CUSTODIAN; LIBRARY
NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	KITCHEN; LIBRARY

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: LEMON CREST ES KITCHEN	Report Page:	(Page 7 of 7)
Project Address:	Date Prepared:	2025-09-30T19:57:09-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: MONICA HANSEN	Documentation Author Signature:
Company: JOHNSON CONSULTING ENGINEERS	Signature Date: 9/30/25
Address: 12875 BROOKPRINTER PL, SUITE 300	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: POWAY, CA 92064	Phone: 858-679-4030

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
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Responsible Designer Name: MONICA HANSEN	Responsible Designer Signature:
Company: JOHNSON CONSULTING ENGINEERS	Date Signed: 9/30/25
Address: 12875 BROOKPRINTER PL, SUITE 300	License: E 14781
City/State/Zip: POWAY, CA 92064	Phone: 858-679-4030

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP 04-124851 INC

ALPHASTUDIO DESIGN GROUP
6152 INNOVATION WAY
CARLSBAD, 92009
760-431-2444
www.alphastudio-design.com

ARCHITECT OF RECORD

LICENSED ARCHITECT
PAUL R. GALLEGOS
No. C24063
EXP. 01/27
STATE OF CALIFORNIA

ENGINEER OF RECORD

LAKESIDE UNION SCHOOL DISTRICT

KITCHEN EXPANSION
LEMON CREST ELEMENTARY SCHOOL
12463 LEMON CREST DR.
LAKESIDE, CA 92040
LAKESIDE UNION SCHOOL DISTRICT
12335 WOODSIDE AVE LAKESIDE CA 92040

REVISIONS

MARK	DATE	DESCRIPTION
	4/14/2026	DSA V3 SUBMITTAL

PROJECT NO: #PIn
MODEL FILE:
25-0 LUSD Lemon Crest Kitchen Expansion.pln
PLOT DATE:
4/9/2026

SHEET TITLE
TITLE 24

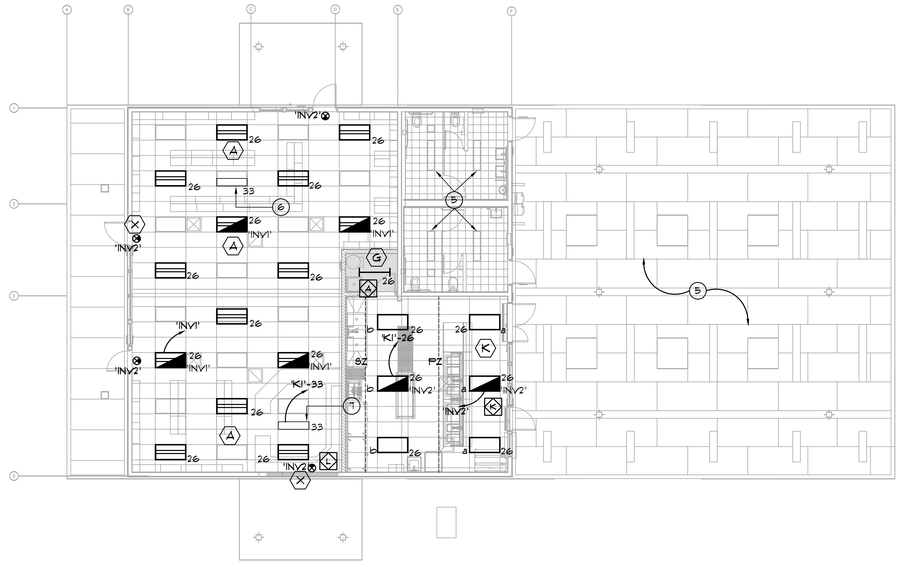
REGISTERED PROFESSIONAL ENGINEER
ROBERT JOHNSON
No. E 14781
Exp. 6-30-2027
ELECTRICAL
STATE OF CALIFORNIA
#24056 9/30/2025

JOHNSON
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Communications | Data Networking
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P 858.679.4030 | F 858.513.0559
www.jce-inc.com

E-2.0

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Z:\Shared\AlphaStudio\ASDG Projects\Active Projects\25-003 LUSD Lemon Crest Kitchen Expansion\ArchiCAD\25-0 LUSD Lemon Crest Kitchen Expansion.pln



1 FLOOR PLAN - LIGHTING
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. REFERENCE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES.
2. REFERENCE E2 SERIES SHEETS FOR ALL FIXTURE TYPES, DIGITAL LIGHTING CONTROL DEVICE SYMBOLS AND LEGENDS AND FOR TYPICAL DETAILS.
3. REFERENCE E8 SERIES SHEETS FOR TYPICAL CONDUIT AND BACKBOX INSTALLATION DETAILS.
4. LETTERS IN OR ADJACENT TO EACH FIXTURE OR FIXTURE ROW INDICATES SWITCH AND OR OCCUPANCY SENSOR WHICH CONTROLS THE LIGHTING FIXTURE.
5. CIRCUIT HOMERUNS ARE INDICATED TO SHOW THE LOCATION AND NUMBER OF CIRCUITS TO BE GROUPED TOGETHER.
6. PROVIDE MINIMUM 3/4" CONDUIT AND #12 CIRCUIT CONDUCTORS AS REQUIRED TO CONNECT EACH LIGHTING FIXTURES TO THEIR INDICATED CONTROL DEVICES. (U.O.N.)
7. WHERE CIRCUIT EXTENSION REQUIRES CUTTING AND PATCHING/REPAIRING EXISTING CEILING, PERFORM CUTTING/PATCHING/REQUIRING WORK PER ARCHITECTURAL DRAWINGS AND SPECS AS REQUIRED.
8. REFER TO E1.0 WALL LEGEND FOR EXISTING AND NEW FIRE RATED WALLS.
9. REFER TO E8.1 FOR FIRE RATED WALL PENETRATION DETAIL.

KEY NOTES:

1. SEE ARCHITECTURAL PLANS FOR MOUNTING HEIGHT.
2. 2 #10 (HOT), 1 #8 (NEUTRAL), 1 #10 (GND), 3/4"C.
3. 3 #10 (HOT), 1 #8 (NEUTRAL), 1 #10 (GND), 3/4"C.
4. 4 #10 (HOT), 2 #8 (NEUTRAL), 1 #10 (GND), 3/4"C.
5. RECONNECT EXISTING LIGHTING FIXTURES TO PANEL 'K1' AS REQUIRED. REFER TO PANEL SCHEDULE.
6. 250VA, 120V-120V, MINI-INVERTER 'INV1' WITH GRID MOUNT. PROVIDE EQUIPMENT TAG ON CEILING GRID.
7. 250VA, 120V-120V, MINI-INVERTER 'INV2' WITH GRID MOUNT. PROVIDE EQUIPMENT TAG ON CEILING GRID.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124851 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/14/2026

ALPHASTUDIO DESIGN GROUP
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ARCHITECT OF RECORD

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12335 WOODSIDE AVE LAKESIDE CA 92040

REVISIONS

MARK	DATE	DESCRIPTION
	4/14/2026	DSA V3 SUBMITTAL

PROJECT NO: #PIn
MODEL FILE:
25-0 LUSD Lemon Crest Kitchen Expansion.pln
PLOT DATE:
4/9/2026

SHEET TITLE
FLOOR PLAN
LIGHTING

E-2.1

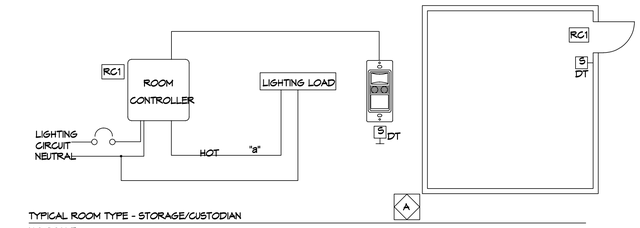
REGISTERED PROFESSIONAL ENGINEER
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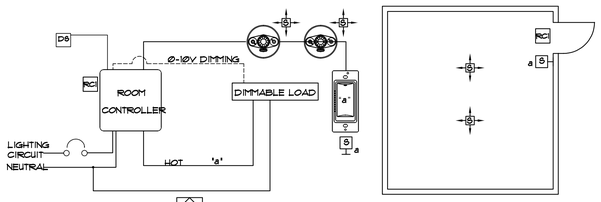
#24056 9/30/2025

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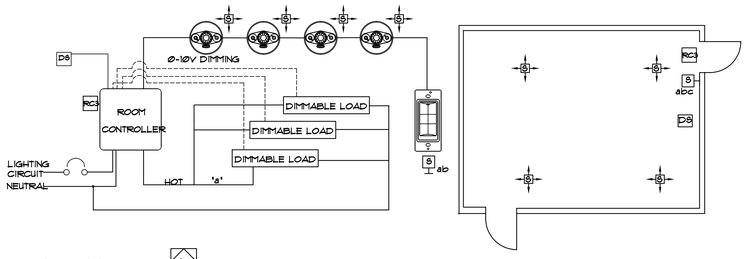
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP 04-124851 INC



TYPICAL ROOM TYPE - STORAGE/CUSTODIAN
NO SCALE



TYPICAL ROOM TYPE K
NO SCALE



TYPICAL ROOM TYPE L
NO SCALE

SYMBOL LEGEND

- S — WALL MOUNTED MANUAL ON AND OFF SWITCH +48" U.O.N.
- S DT — WALL MOUNTED DUAL TECH OCCUPANCY SENSOR WITH MANUAL ON AND OFF 48" U.O.N.
- CEILING MOUNTED OCCUPANCY SENSOR (DUAL TECHNOLOGY WITH EXTENDED RANGE)
- o — CEILING MOUNTED OUTDOOR RATED OCCUPANCY SENSOR (DUAL TECHNOLOGY WITH EXTENDED RANGE)
- RC1 — SINGLE CIRCUIT ROOM CONTROLLER NO DIMMING
- RC2 — SINGLE CIRCUIT ROOM CONTROLLER FOR ROOMS WITH ONE DIMMING ZONE.
- RC3 — SINGLE CIRCUIT ROOM CONTROLLER FOR ROOMS WITH TWO DIMMING ZONES.
- RC4 — SINGLE CIRCUIT ROOM CONTROLLER FOR ROOMS WITH THREE DIMMING ZONES.
- D8 — DAYLIGHT SENSOR
- D8 o — OUTDOOR RATED DAYLIGHT SENSOR
- S a — MAIN ENTRY MANUAL ON AND OFF WITH DIMMER FOR ZONE 'a'
- S ab — MAIN ENTRY MANUAL ON AND OFF WITH DIMMER FOR ZONE 'a''b'
- S abc/wp — MAIN ENTRY MANUAL ON AND OFF WITH DIMMER FOR ZONE 'a''b''c' AND WEATHERPROOF COVER
- S a/wp — MAIN ENTRY MANUAL ON AND OFF WITH DIMMER FOR ZONE 'a' AND WEATHERPROOF COVER

GENERAL NOTES

1. REFERENCE SPECIFICATION SECTION 260923 DIGITAL LIGHTING CONTROL SYSTEM FOR ADDITIONAL SCOPE OF WORK.
2. ITEMS RC1 RC2 RC3 PL TO BE WALL MOUNTED ABOVE THE ROOM ENTRY DOOR, ABOVE THE CEILING IN ALL ROOMS WITH T-BAR CEILINGS.
3. ITEMS RC1 RC2 RC3 PL TO BE LOCATED WITHIN A 24" x 24" RECESSED ENCLOSURE WITH HINGED LOCKING COVER LOCATED ABOVE THE ROOM ENTRY DOOR IN ALL ROOMS WITH INACCESSIBLE CEILINGS.
4. ALL Ø-10V WIRING AND CAT BE WIRING MAY BE INSTALLED AS OPEN WIRE WHERE ABOVE ACCESSIBLE CEILINGS. WHERE ABOVE INACCESSIBLE OR EXPOSED CEILINGS IT SHALL BE INSTALLED IN CONDUIT.
5. PROVIDE OCCUPANCY SENSORS SUITABLE FOR HIGH CEILING APPLICATION WHERE CEILING HEIGHT EXCEEDS 10'-0" AFF.
6. REFERENCE E2.2 FOR LIGHTING ON EMERGENCY SYSTEM.

LIGHTING FIXTURE SCHEDULE

Mark	Approved Manufacturer's (See Key Note No.1)	Catalog Series Type (See Key Note No.2)	FIXTURE: Incandescent	Fluorescent	Metal Halide	High pressuresodium	Low pressuresodium	LED	Volts	Lamp Watts / Max Fixture Watts	LAMP NO.	LAMP Type	MOUNTING: Recessed / Ceiling	Surface/ Ceiling	Wall	Recessed / Wall	Pendant	Surface / Wall	Pole	Description
			□	□	□	□	□	■	■ 120		.	LED	■	□	□	□	□	□	□	.
A	LITHONIA	2VLT4 SERIES							□ 208											MINIMUM 6305 LUMEN, 4000 KELVIN, 0-10V DIMMING, CURVED LINEAR PRISMS DIFFUSER, 2-3/8" DEEP.
	COLUMBIA	LCAT24 SERIES							■ 277	48										
	METALUX	24CZ SERIES							□ 480											
	Or Equal																			
																				□ Provide emergency ballast Type 'EM' □ Provide custom color finish, to be selected at time of submittal □ See detail
	KENALL	CSED024	□	□	□	□	□	■	■ 120		.	LED	■	□	□	□	□	□	□	.
K	Or Equal								□ 208											MINIMUM 6700 LUMEN, 4000 KELVIN, 0-10V DIMMING, 2'X4', ONE PIECE OVERLAPPING DOOR, SUITABLE FOR KITCHEN AND FOOD PREP, IP66 RATED.
									■ 277	46										
									□ 480											
																				□ Provide emergency ballast Type 'EM' □ Provide custom color finish, to be selected at time of submittal □ See detail
	LITHONIA	CLX	□	□	□	□	□	■	■ 120		.	LED	■	□	□	□	□	□	□	.
G	COLUMBIA	MPS							□ 208											MINIMUM 3000 LUMEN, 4000 KELVIN, 80 CRI, 0-10V DIMMING, 4' LONG, ROUND LENS
	COOPER	SNLED							■ 277	20										
									□ 480											
																				□ Provide emergency ballast Type 'EM' □ Provide custom color finish, to be selected at time of submittal □ See detail
			□	□	□	□	□	■	■ 120		.		□	□	□	□	□	□	□	.
X	LITHONIA	LQM LED							□ 208											LED EXIT SIGN, THERMOPLASTIC HOUSING, 10 YEAR LIFE, GREEN STENCIL, WHITE FRAME. AC ONLY. FIELD VERIFY MOUNTING HARDWARE REQUIRED. SEE FLOOR PLAN FOR FACE AND CONFIGURATION
	ISOLITE	RELIANCE SERIES							■ 277	3										
	COOPER	APX SERIES							□ 480											
	DUAL LITE	EVE SERIES																		□ Provide emergency ballast Type 'EM' □ Provide custom color finish, to be selected at time of submittal □ See detail

LIGHTING FIXTURE SCHEDULE NOTES:

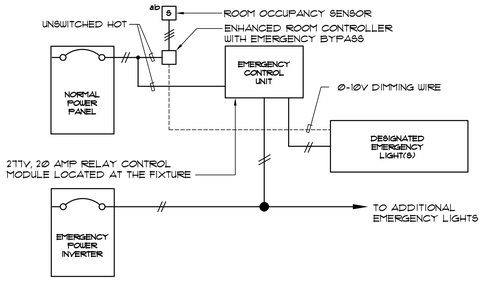
KEY NOTES

1. ALTERNATE MANUFACTURER'S TO THOSE SPECIFIED MAY BE SUBMITTED FOR APPROVAL. ALTERNATE MANUFACTURER'S MUST MEET THE MINIMUM CRITERIA INDICATED IN THE DESCRIPTION AND OPTIONS COLUMNS OF THIS SCHEDULE, AND MUST BE EQUAL TO THE SPECIFIED FIXTURE AS DETERMINED BY THE SPECIFYING ENGINEER. (ALTERNATE FIXTURES MUST BE APPROVED PRIOR TO BID, ALLOW 72 HOURS FOR ENGINEER REVIEW AND APPROVED.) WHERE 'NO KNOWN EQUAL' IS INDICATED THE FIXTURE DOES NOT HAVE AN EQUAL TO MEET THE PROJECT REQUIREMENTS, AND ALTERNATE SELECTIONS WILL NOT BE ACCEPTED.
2. COMPLETE CATALOG NUMBERS HAVE NOT BEEN PROVIDED, REFERENCE THE DESCRIPTION AND OPTIONS COLUMNS OF THIS SCHEDULE FOR COMPLETE FIXTURE REQUIREMENTS.
3. IN ORDER FOR EQUAL TO BE APPROVED, LIGHT FIXTURE MUST BE SIMILAR PHYSICALLY, HAVE A SIMILAR WATTAGE AND LIGHTING FIXTURE REPRESENTATIVE MUST PROVIDE A POINT TO POINT LIGHTING CALCULATION SHOWING THAT THE EQUAL PRODUCES A SIMILAR NUMBER OF FOOTCANDLES AS THE SPECIFIED FIXTURE. PROVIDE SUBSTITUTION REQUEST AS PER SPECIFICATIONS.

LIGHTING CONTORL DIAGRAMS

NO SCALE

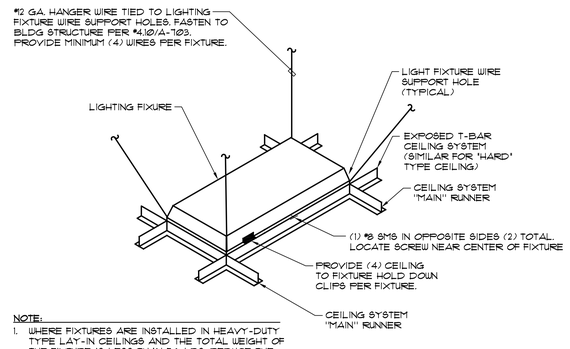
1 / E2.2



EMERGENCY LIGHTING CONFIGURATION DIAGRAM

NO SCALE

2 / E2.2



NOTE:
1. WHERE FIXTURES ARE INSTALLED IN HEAVY-DUTY TYPE LAY-IN CEILINGS AND THE TOTAL WEIGHT OF THE FIXTURE IS LESS THAN 56 LBS, REDUCE THE QUANTITY OF HANGER WIRES TO (2) SLACK WIRES AT DIAGONAL CORNERS.
2. REFERENCE ARCHITECTURAL SHEET A-703 FOR ADDITIONAL CEILING ANCHORAGE REQUIREMENTS.

LED FIXTURE SEISMIC RESTRAINT DETAIL

NO SCALE

3 / E2.2

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KITCHEN EXPANSION

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REVISIONS

MARK	DATE	DESCRIPTION
	4/14/2026	DSA V3 SUBMITTAL

PROJECT NO: #Pln
MODEL FILE: 25-0 LUSD Lemon Crest Kitchen Expansion.pln
PLOT DATE: 4/9/2026

SHEET TITLE

LIGHTING FIXTURE SCHEDULE

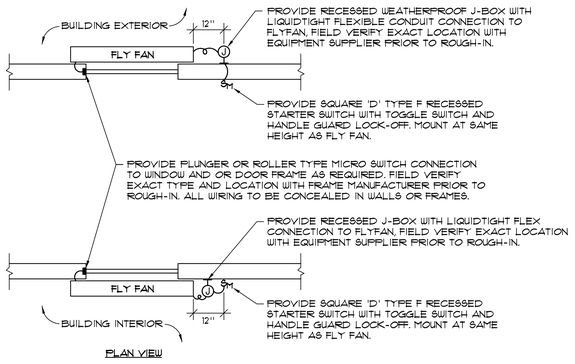
E-2.2

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Exp. 6-30-2027
ELECTRICAL
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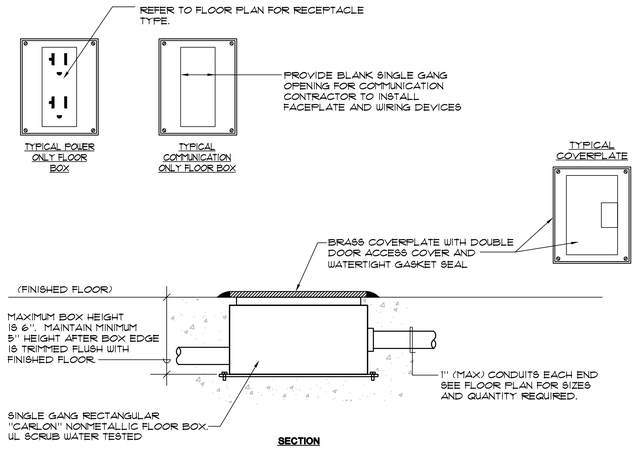


NOTES:
1. REFERENCE KITCHEN AND OR MECHANICAL PLANS FOR FAN LOCATIONS, AND REFERENCE ARCHITECTURAL PLANS FOR DOOR OR WINDOW TYPE.

FLY FAN CONNECTION DETAIL

NO SCALE DET-M41

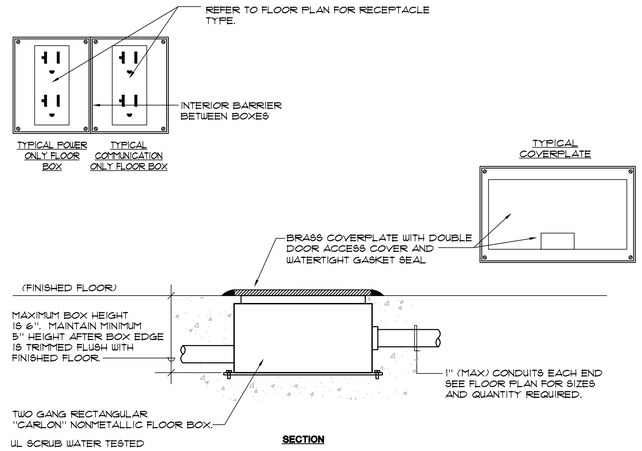
2 / E3.1



TYPICAL SINGLE GANG FLOOR BOX INSTALLATION

NO SCALE DET-P7

3 / E3.1



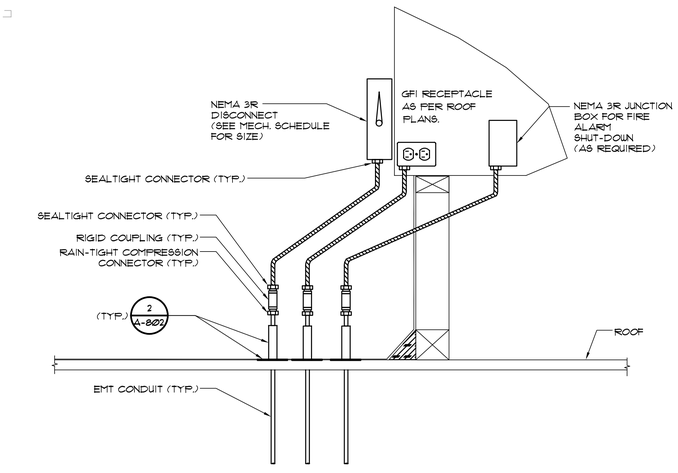
TYPICAL TWO GANG FLOOR BOX INSTALLATION

NO SCALE DET-P8

4 / E3.1

MECHANICAL EQUIPMENT SCHEDULE

MARK	VOLTAGE/ PHASE	CONDUIT/ WIRE	FUSE	DISC. SWITCH	PANEL	REMARKS
66CU 1	208V, 1PH	1"C. 3 #1Ø, 1 #1Ø GND	25A	30A / 3P / 3R	SEE PLANS	17 MCA
66FC 1	208V, 1PH	1"C. 3 #1Ø, 1 #1Ø GND	NA	MANUAL MOTOR STARTER SWITCH	SEE PLANS	FED FROM OUTDOOR UNIT
EF 1	120V, 1PH	3/4"C. 2 #12, 1 #12 GND	NA	MANUAL MOTOR STARTER SWITCH	SEE PLANS	1/10 HP



A/C UNIT CONNECTION DETAIL

NO SCALE DET-M31

5 / E-6.2

BLDG 'N' FLOOR PLAN - POWER

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

GENERAL NOTES:

1. REFERENCE FOODSERVICE DRAWINGS FOR ALL DEVICE HEIGHTS.
2. VERIFY ALL LOCATIONS AND REQUIREMENTS WITH FOODSERVICE DRAWINGS.
3. REFER TO FOODSERVICE DRAWINGS FOR ADDITIONAL ELECTRICAL REQUIREMENTS.
4. REFERENCE ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT LOCATION OF ALL WALL MOUNTED POWER DEVICES WHERE INDICATED AT MOUNTING HEIGHTS OTHER THAN +18".
5. REFERENCE E3 SERIES SHEETS FOR TYPICAL CONDUIT AND BACKBOX INSTALLATION DETAILS.
6. NUMBERS ADJACENT TO EACH POWER DEVICE INDICATES THE CIRCUIT NUMBER TO WHICH THE DEVICE IS TO BE CONNECTED.
7. CIRCUIT HOMERUNS ARE INDICATED TO SHOW THE LOCATION AND NUMBER OF CIRCUITS TO BE GROUPED TOGETHER.
8. PROVIDE MINIMUM 3/4" CONDUIT AND #12 CIRCUIT CONDUCTORS AS REQUIRED TO CONNECT EACH POWER DEVICE TO THEIR INDICATED CIRCUIT (U.O.N.).
9. FIELD VERIFY EXACT ROUTING LOCATION FOR CONCEALED CONDUITS AND RECEPTACLES PRIOR TO ROUGH-IN.
10. REFERENCE ONE LINE DIAGRAM FOR CONDUIT AND CONDUCTOR SIZE.
11. FOR SPECIALTY RECEPTACLE WITHOUT GFI OPTION, PROVIDE GFI BREAKER.
12. REFERENCE MECHANICAL PLANS FOR EXACT EQUIPMENT LOCATIONS PRIOR TO ROUGH-IN.
13. ALL CONDUIT FEEDERS TO ROOF MOUNTED EQUIPMENT SHALL BE RUN CONCEALED IN CEILING SPACE WHERE EQUIPMENT CURBS ARE PROVIDED. ROUTE FEEDER UP THROUGH CURB TO EQUIPMENT DISCONNECT.
14. FIELD VERIFIED EXACT LOCATION OF POINT OF POWER CONNECTION PRIOR TO ROUGH IN.

KEY NOTES:

1. FIELD VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.
2. 2 #1Ø (HOT), 1 #8 (NEUTRAL), 1 #1Ø (GND), 3/4"C.
3. 3 #1Ø (HOT), 1 #8 (NEUTRAL), 1 #1Ø (GND), 3/4"C.
4. 4 #1Ø (HOT), 2 #8 (NEUTRAL), 1 #1Ø (GND), 3/4"C.
5. 3/4"C. 3 #12, 1 #12 GND.
6. 3/4"C. 2 #1Ø, 1 #1Ø GND.
7. 1-1/4"C. 3 #4, 1 #8 GND.
8. NEW PANEL SHALL MATCH EXISTING PANEL SIZE AND SHALL FIT WITHIN EXISTING STUD BAY. LOCATE AT SAME HEIGHT AS EXISTING PANEL. CUT BACK EXISTING FEEDER AND BRANCH CIRCUIT CONDUITS TO ALLOW INSTALLATION OF NEW PANEL. ALL EXISTING CONDUCTORS THAT ARE TO REMAIN SHALL BE SAFED OFF AND PROTECTED IN PLACE. EXTEND EXISTING CIRCUITS TO NEW PANEL PER PANEL SCHEDULE AND FLOOR PLAN. PATCH, REPAIR AND REPAINT WALL TO MATCH ADJACENT SURFACE AS REQUIRED.

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REVISIONS

MARK	DATE	DESCRIPTION
	4/14/2026	DSA V3 SUBMITTAL

PROJECT NO: #PIn

MODEL FILE:
25-0 LUSD Lemon Crest Kitchen Expansion.pln

PLOT DATE:
4/9/2026

SHEET TITLE

FLOOR PLAN POWER

E-3.1

REGISTERED PROFESSIONAL ENGINEER
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#24056 4/7/2026

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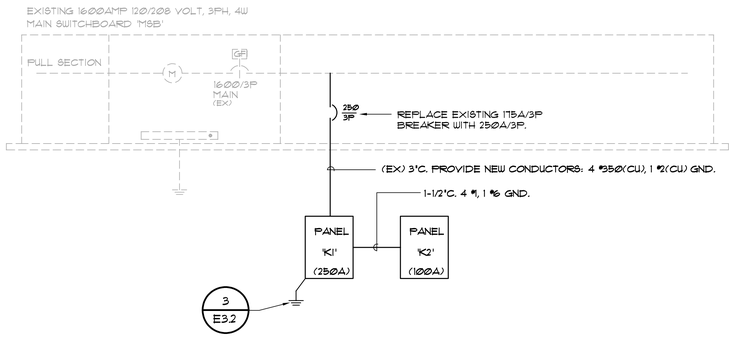
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GENERAL NOTES:

1. A FAULT CURRENT AND TIME CURRENT STUDY MUST BE PROVIDED AS DESCRIBED IN THE SPECIFICATIONS PRIOR TO FINAL APPROVAL OF THE POWER EQUIPMENT.
2. UNLESS WHERE OTHERWISE NOTED, ALL WORK INDICATED ON THESE DRAWINGS SHALL BE CONSIDERED NEW WORK.
3. ALL ELECTRICAL GEAR AND EQUIPMENT SHOWN ON ONE-LINE DIAGRAM SHALL BE NEMA 3R UNLESS OTHERWISE NOTED.

600V FEEDER SCHEDULE GENERAL NOTES:

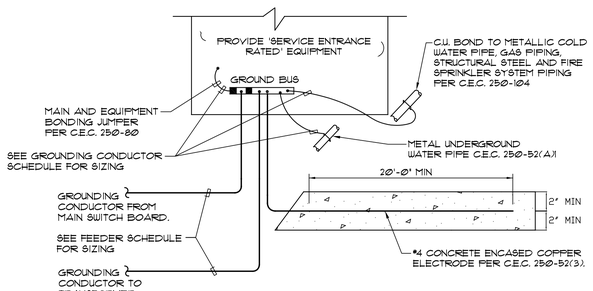
1. ALL CONDUCTOR SHALL BE PROVIDED WITH TYPE THWN-2 INSULATION. REFERENCE SPECIFICATION SECTION 26 05 19 FOR ADDITIONAL REQUIREMENTS.
2. PROVIDE 60 DEGREE COPPER/ALUMINUM RATED TERMINATION FOR ALL FEEDERS SIZED WITH #2 OR SMALLER CONDUCTORS. PROVIDE 75 DEGREE COPPER/ALUMINUM RATED TERMINATIONS FOR ALL FEEDERS SIZED WITH #1 OR LARGER CONDUCTORS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ORDERING LUG CONFIGURATION AN ALL EQUIPMENT, BREAKER OF DISCONNECTS TO MATCH FEEDER CONFIGURATIONS INDICATED.
4. WHERE MULTIPLE CONDUIT QUANTITIES ARE INDICATED, CONDUCTOR QUANTITIES AND SIZES SHOWN IN SCHEDULE SHALL BE PROVIDED IN EACH CONDUIT.



ELECTRICAL ONE LINE DIAGRAM

NO SCALE

1 E-3.2



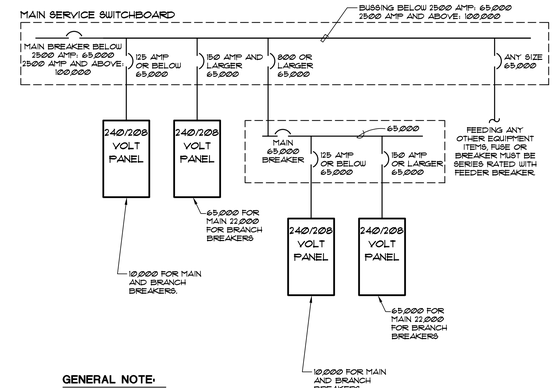
GROUND SIZING SCHEDULE	
EQUIPMENT AMPACITY	GROUNDING CONDUCTOR SIZE
0 - 200 AMPS	#4 CU.
201 - 400 AMPS	#1/0 CU.
401 - 800 AMPS	#2/0 CU.
801 - 1200 AMPS	#3/0 CU.
1201 - 2000 AMPS	#400 CU.
2001 - 4000 AMPS	#750 CU.

SERVICE ENTRANCE GROUNDING AND BONDING DETAIL

NO SCALE

DET-GI3 (2004 CEC)

3 E3.2



GENERAL NOTE:

1. ALL RATINGS SHOWN ARE FOR A UL LISTED SERIES COMBINATION OF THE BREAKERS INDICATED.

TYPICAL 208/240 VOLT SERVICE AIC EQUIPMENT RATING

NO SCALE

DET-SC5

3 E3.2

120/208 | 120/208 3PH, 4WIRE | 200% Neutral Bus | (INTEGRAL)TVSS Protection X | (REMOTE)TVSS Protection | Service Entrance Rated X | Load Side Feed thru Lugs | **250 AMP** | Main: Breaker X, Lug | Enclosure: Recessed X, Surface | ENCLOSURE TYPE: X NEMA TYPE 1, NEMA TYPE 3R, NEMA TYPE 4X | ENCLOSURE NOTE

KI — GENERAL DISTRIBUTION — BREAKER REQUIREMENTS : **PROVIDE LOCK ON BREAKER DEVICES FOR ALL EMERGENCY LIGHTING, WATER HEATERS MOTORS, AND FIRE ALARM EQUIPMENT SERVED FROM THIS PANEL**

LCL	NHL	CIRCUIT DESCRIPTION	AMP	POLE	NO	PHASE A	PHASE B	PHASE C	NO	AMP	POLE	CIRCUIT DESCRIPTION	LCL	NHL
	X	EXISTING AC	40	3	1	3600			2	40	3	EXISTING AC		X
	X	"			3	3600	3600		4			"		X
	X	"			5		3600	3600	6			"		X
	X	19,20 AIR CURTAIN	20	2	7	500			8	20	1	SPARE		
	X	"			9		500		10	20	1	7, 18 FRIDGE/MILK COOLER		
	X	16 DROP IN WELL	30	1	11			2640	12	20	1	10 HEATED CAB		
	X	16 DROP IN WELL	30	1	13	2640		1440	14	20	1	SPARE		
		EX LIB RECEPTACLE	20	1	15		400		16	20	1	8 REACH IN FREEZER		
		EX LIB RECEPTACLE	20	1	17		1320	400	18	20	1	EX LIB RECEPTACLE		
		EX LIB RECEPTACLE	20	1	19	400		400	20	20	1	EX LIB RECEPTACLE		
		EX LIB RECEPTACLE	20	1	21	400	400		22	20	1	EX LIB RECEPTACLE		
X		EX LTG BATHROOM	20	1	23			320	24	20	1	EX LIB RECEPTACLE		
X		EX OUTSIDE LTG	20	1	25	560		400	26	20	1	EX LTG NORTH		
		RECEPTACLES	20	1	27	800	400		28	20	1	RECEPTACLES		
		SPARE	20	1	29		800		30	20	1	EX LUNCH LTG	X	
		EX ROOF RECEPTACLE	20	1	31	500			32	20	1	EX LUNCH LTG	X	
X		MINI INVERTERS	20	1	33	800	750		34	20	1	EX LUNCH RECEPTACLE		
		EX DRINKING FOUNTAIN	20	1	35		800	400	36	20	1	SPARE		
	X	WATER HEATER	60	3	37	5000			38	100	3	PANEL 'K2'		
	X	"			39	3440	5000		40			"		
	X	"			41		1840	5000	42			"		

SPECIAL PANEL NOTE — NOTE #1, NOTE #2

NHL= Non Harmonic Load	TOTAL LOAD PER PHASE	22240	20782	22440	
LCL= Long Continuous Load	25% LONG CONTINUOUS LOADS	340	188	280	
	SUB PANEL				
Max. Neut. Load	SUB PANEL				
196 AMPS	TOTAL CONNECTED LOAD	22580	20970	22720	

HIGH PHASE 22720 — ALL PHASES 66269.5 — DEMAND PER — CEC 220-86

VA @ 120V **189.3** AMPS — VA @ 208V/3PH **184.1** AMPS — AMPS

M:\Panel Schedule\2024\24056 Lemon Crest ES Kitchen\KI - 3PH - Panel.xls 4:09 PM3/20/2026

120/208 | 120/208 3PH, 4WIRE | 200% Neutral Bus | (INTEGRAL)TVSS Protection X | (REMOTE)TVSS Protection | Service Entrance Rated | Load Side Feed thru Lugs | **100 AMP** | Main: Breaker X, Lug | Enclosure: Recessed, Surface X | ENCLOSURE TYPE: X NEMA TYPE 1, NEMA TYPE 3R, NEMA TYPE 4X | ENCLOSURE NOTE

K2 — GENERAL DISTRIBUTION — BREAKER REQUIREMENTS : **PROVIDE LOCK ON BREAKER DEVICES FOR ALL EMERGENCY LIGHTING, WATER HEATERS MOTORS, AND FIRE ALARM EQUIPMENT SERVED FROM THIS PANEL**

LCL	NHL	CIRCUIT DESCRIPTION	AMP	POLE	NO	PHASE A	PHASE B	PHASE C	NO	AMP	POLE	CIRCUIT DESCRIPTION	LCL	NHL
		FLOOR BOX	20	1	1	600			2	20	1	FIRE ALARM PANEL		
		FLOOR BOX	20	1	3	400	600		4	20	1	IDF		
		RECEPTACLES	20	1	5		800	600	6	20	1	DRINKING FOUTAIN		
		RECEPTACLES	20	1	7	400		400	8	20	1	SPARE		
		RECEPTACLES	20	1	9		400		10	15	1	EF-1		
		RECEPTACLES	20	1	11		40	400	12	30	2	SSCU-1		
		SPARE	20	1	13	2040		2040	14			"		
		SPARE	20	1	15				16	20	1	SPARE		
		SPARE	20	1	17				18	20	1	SPARE		
		SPARE	20	1	19				20	20	1	SPARE		
		SPARE	20	1	21				22	20	1	SPARE		
		SPARE	20	1	23				24	20	1	SPARE		
		SPARE	20	1	25				26	20	1	SPARE		
		SPARE	20	1	27				28	20	1	SPARE		
		SPARE	20	1	29				30	20	1	SPARE		
		SPARE	20	1	31				32	20	1	SPARE		
		SPARE	20	1	33				34	20	1	SPARE		
		SPARE	20	1	35				36	20	1	SPARE		
		SPARE	20	1	37				38	20	1	SPARE		
		SPARE	20	1	39				40	20	1	SPARE		
		SPARE	20	1	41				42	20	1	SPARE		

SPECIAL PANEL NOTE — NOTE #1, NOTE #2

NHL= Non Harmonic Load	TOTAL LOAD PER PHASE	3440	1840	3440	
LCL= Long Continuous Load	25% LONG CONTINUOUS LOADS	0	0	0	
	SUB PANEL				
Max. Neut. Load	SUB PANEL				
49 AMPS	TOTAL CONNECTED LOAD	3440	1840	3440	

HIGH PHASE 3440 — ALL PHASES 8720 — DEMAND PER — CEC 220-86

VA @ 120V **28.7** AMPS — VA @ 208V/3PH **24.2** AMPS — AMPS

M:\Panel Schedule\2024\24056 Lemon Crest ES Kitchen\K2 - 3PH - Panel.xls 4:08 PM3/20/2026

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LAKESIDE UNION SCHOOL DISTRICT
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REVISIONS

MARK	DATE	DESCRIPTION
	4/14/2026	DSA V3 SUBMITTAL

PROJECT NO: #PIn

MODEL FILE:
25-0 LUSD Lemon Crest Kitchen Expansion.pln

PLOT DATE:
4/9/2026

SHEET TITLE

ONE LINE DIAGRAM, PANEL SCHEDULE & DETAILS

E-3.2

REGISTERED PROFESSIONAL ENGINEER
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BACKBOX AND RING LEGEND

TYPE	DESCRIPTION
'B1'	4 11/16" square 2 1/8" deep box with single gang ring.
'B2'	4 11/16" square 2 1/8" deep box with dual gang ring.
'B3'	4" square 1 1/2" deep box with single gang ring.
'B4'	Single gang box, 2 1/8" deep.
'B5'	4" X 3" Deep 4 Gang Masonry Junction Box
'B6'	4" H X 3" DEEP 3-GANG BOX WITH 3-GANG RING

'AR'	As required to accommodate the number of ports designated.
'BP'	Blank faceplate.

CONDUIT / RACEWAY LEGEND

TYPE	DESCRIPTION
'3/4-S'	3/4" conduit stubbed from box into accessible ceiling space, unless detailed otherwise on drawings.
'1-S'	1" conduit stubbed from box into accessible ceiling space, unless detailed otherwise on drawings.
'1 1/4-S'	1 1/4" conduit stubbed from box into accessible ceiling space, unless detailed otherwise on drawings.

TECHNOLOGY SYMBOL LEGEND

SYMBOL	DESCRIPTION	BACKBOX & RING	FACE PLATE	CONDUIT / RACEWAY
	Single port data outlet, +18" AFF. (U.O.N.)	Type 'B1'	Type 'AR'	Type '1-S'
2P	Dual port data outlet, +18" AFF. (U.O.N.)	Type 'B1'	Type 'AR'	Type '1-S'
3P	Triple port data outlet, +18" AFF. (U.O.N.)	Type 'B1'	Type 'AR'	Type '1-S'
4P	Quad port data outlet, +18" AFF. (U.O.N.)	Type 'B1'	Type 'AR'	Type '1-S'
	Same device as required on legend, mounted +6" above backsplash (U.O.N.)	Same as required for device indicated on legend.	Same as required for device indicated on legend.	Same as required for device indicated on legend.
AP 2P (1)	Dual port data outlet at wireless access point mounted in accessible ceiling (U.O.N.) Ext. / Int.	See detail 2 / E4.3	Type 'AR'	Not required in accessible ceiling.
E	Conduit sleeve through wall, above accessible ceiling.	Not required.	Not required.	(1) 3"C. for open low voltage wiring.
E 2"C.	Conduit sleeve through wall, above accessible ceiling.	Not required.	Not required.	(1) Conduit for open low voltage wiring, size as indicated
E (2) 2"C.	Conduit sleeve through wall, above accessible ceiling.	Not required.	Not required.	Conduit for open low voltage wiring, size and quantity as indicated.
E	Conduit stubbed above accessible ceiling.	Not required.	Not required.	(1) 3/4" conduit for open low voltage wiring.
E 1 1/2"C.	Conduit stubbed above accessible ceiling.	Not required.	Not required.	(1) conduit for open low voltage wiring. size as indicated
E (2) 1"C.	Conduit stubbed above accessible ceiling.	Not required.	Not required.	Conduit for open low voltage wiring, size and quantity as indicated.

COMMUNICATION / SECURITY SYMBOL LEGEND

SYMBOL	DESCRIPTION	BACKBOX & RING	FACE PLATE	CONDUIT / RACEWAY
⑤	IP intercom speaker, recessed in ceiling.	Not Required in Accessible Ceiling.	AS REQUIRED	Type '3/4-S'

GENERAL NOTES:

1. ALL CONDUITS WHICH ARE REQUIRED AS A PART OF SYSTEMS SPECIFIED FOR COMMUNICATIONS, TELEPHONE, INTERCOM, CLOCK FIRE ALARM, SECURITY, SOUND SYSTEMS, DATA NETWORKING, TELEVISION, OR MULTIMEDIA SYSTEMS SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
   - 1.1 THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL CONDUIT REQUIREMENTS WITH EACH SYSTEM SUPPLIER PRIOR TO BID TO DETERMINE SPECIAL CONDUIT SYSTEM REQUIREMENTS.
   - 1.2 THE ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT SLEEVES FOR ALL OPEN CABLE INSTALLATIONS THROUGH RATED WALLS OR BLOCK WALLS. PROVIDE CONDUIT FROM EACH BUILDING MAIN TERMINATION CABINET OR BACKBOARD TO THE NEAREST ACCESSIBLE CEILING FOR ACCESS INTO ALL ELECTRICAL OR COMMUNICATIONS ROOMS.
   - 1.3 ALL CONDUIT, BOXES, AND RINGS SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
   - 1.4 ALL BLANK PLATES SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
   - 1.5 ALL CONDUITS SHALL BE FURNISHED WITH PULL STRINGS BY ELECTRICAL CONTRACTOR. COMMUNICATION CONTRACTOR TO PROVIDE PULL ROPES (MINIMUM 1/4") WITH NEW CABLING INTO ALL CONDUITS BETWEEN BUILDINGS.
   - 1.6 CONTRACTOR TO REVIEW ARCHITECTURAL CEILING PLANS TO DETERMINE LOCATIONS OF ACCESSIBLE CEILINGS PRIOR TO BID.
   - 1.7 (16740) NUMBERS INDICATE MATCHING SPECIFICATION SECTION RESPONSIBLE FOR THIS WORK.
2. IN ADDITION TO THE ABOVE REQUIREMENTS, THE FOLLOWING REQUIREMENTS SHALL APPLY TO ALL DATA NETWORKING, MULTIMEDIA AND TELEPHONE CONDUITS:
   - 2.1 FLEXIBLE METAL CONDUIT MAY BE USED ONLY WHERE REQUIRED AT BUILDING SEISMIC AND/OR EXPANSION JOINTS.
   - 2.2 ALL UNDERGROUND CONDUITS SHALL BE PROVIDED WITH MINIMUM 24" RADIUS ELBOWS.
   - 2.3 NO LENGTH OF CONDUIT SHALL BE INSTALLED TO EXCEED 150 FEET BETWEEN PULL BOXES, OR POINTS OF CONNECTION, UNLESS WHERE SPECIFICALLY DETAILED ON THE DRAWINGS.
   - 2.3 NO LENGTH OF CONDUIT SHALL BE INSTALLED TO EXCEED TWO 90 DEGREE BENDS BETWEEN PULL BOXES, OR POINTS OF CONNECTION, UNLESS WHERE SPECIFICALLY DETAILED ON THE DRAWINGS.

KEY NOTES:

(1) DATA CABLING AND DATA FACEPLATE FOR SYMBOL FURNISHED AND INSTALLED BY 27 10 00 CONTRACTOR.

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REVISIONS

MARK	DATE	DESCRIPTION
	4/14/2026	DSA V3 SUBMITTAL

PROJECT NO: #Pln
MODEL FILE:
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COMMUNICATIONS / TECHNOLOGY LEGEND

E-4.0

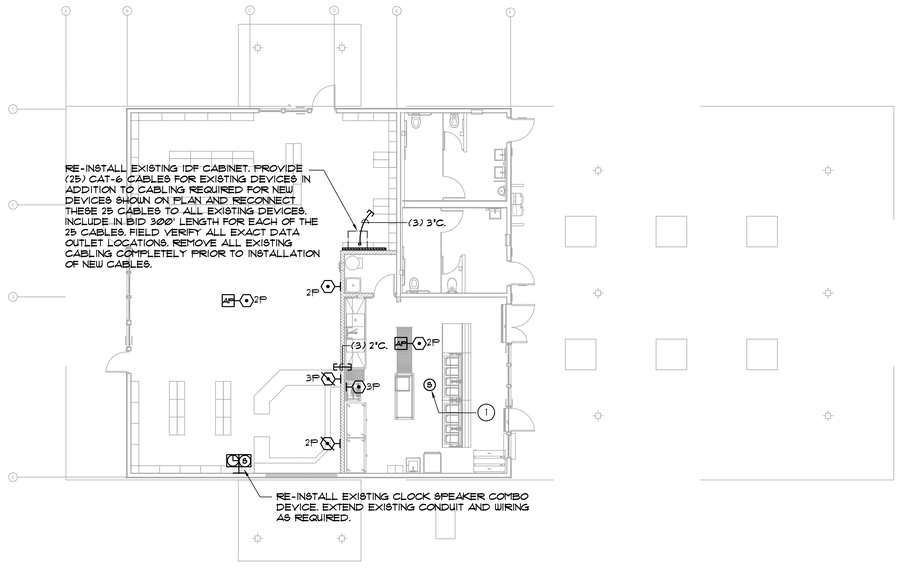
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1 FLOOR PLAN - COMMUNICATIONS
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. REFERENCE ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT LOCATION OF ALL WALL MOUNTED DEVICES.
2. REFERENCE E4 AND E8 SERIES SHEETS FOR TYPICAL CONDUIT AND BACKBOX INSTALLATION DETAILS.
3. REFERENCE E4 SERIES SHEETS FOR TYPICAL COMMUNICATION SYSTEMS RISER DIAGRAM.
4. REFERENCE RISER DIAGRAMS FOR TYPICAL CONDUIT SIZES AND ROUTINGS.

KEY NOTES:

(1) PROVIDE CYBERDATA IP BASED CEILING PAGING SPEAKER MODEL #011394. PROVIDE REQUIRED LICENSING AND PROGRAMING AS REQUIRED FOR A COMPLETE OPERATIONAL SYSTEM.

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SHEET TITLE
FLOOR PLAN
COMMUNICATIONS

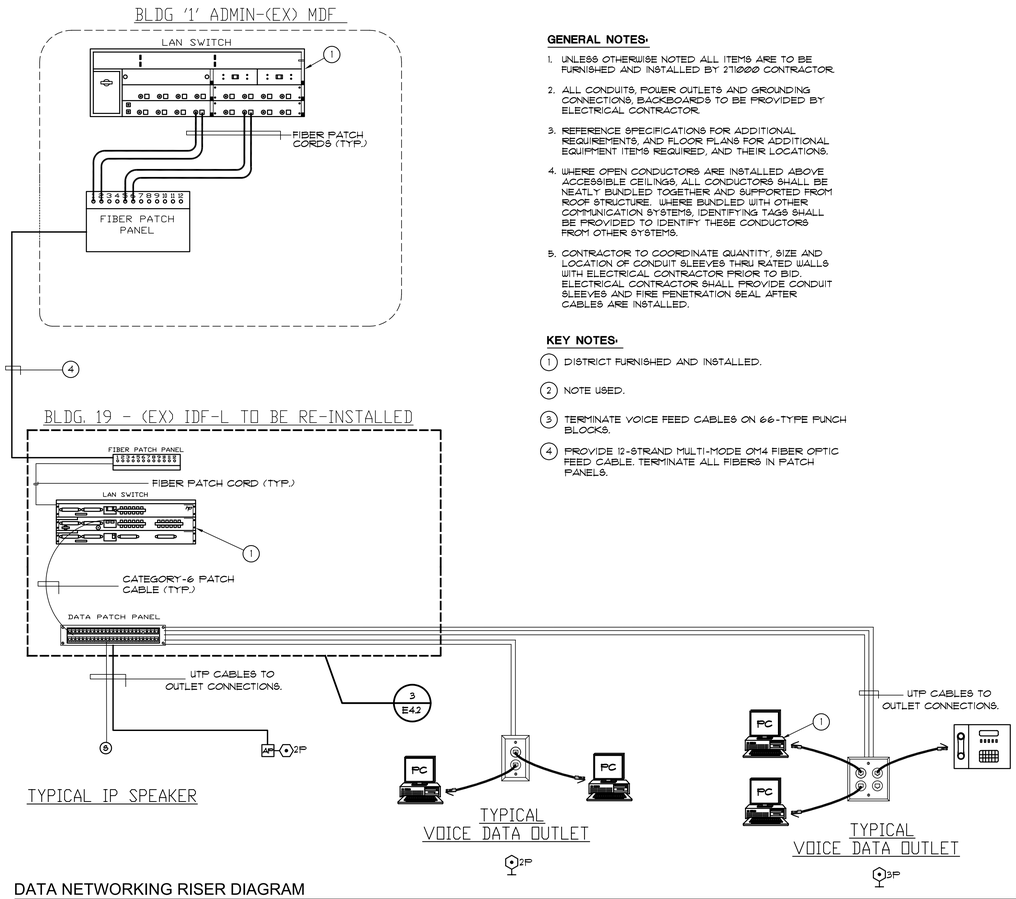
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DATA NETWORKING RISER DIAGRAM
NO SCALE

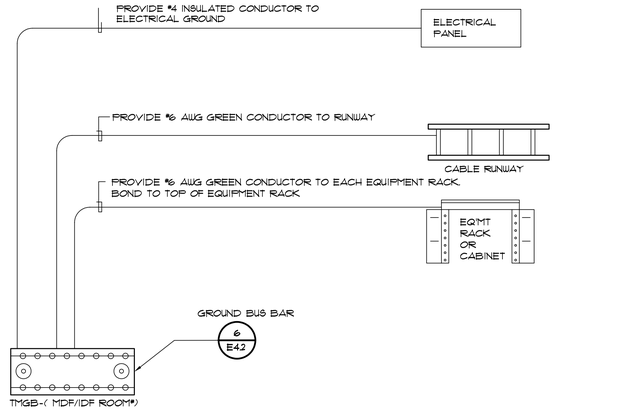
1 / E4.2

GENERAL NOTES:

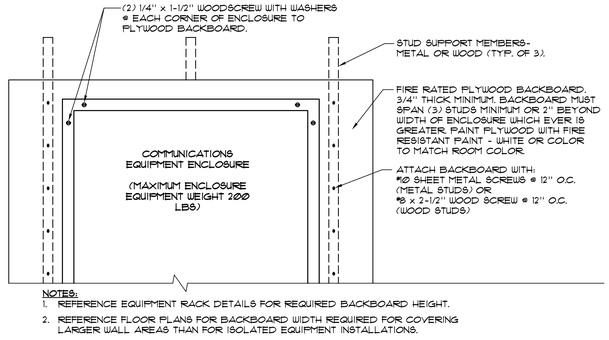
1. UNLESS OTHERWISE NOTED ALL ITEMS ARE TO BE FURNISHED AND INSTALLED BY 21000 CONTRACTOR.
2. ALL CONDUITS, POWER OUTLETS AND GROUNDING CONNECTIONS, BACKBOARDS TO BE PROVIDED BY ELECTRICAL CONTRACTOR.
3. REFERENCE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS, AND FLOOR PLANS FOR ADDITIONAL EQUIPMENT ITEMS REQUIRED, AND THEIR LOCATIONS.
4. WHERE OPEN CONDUCTORS ARE INSTALLED ABOVE ACCESSIBLE CEILINGS, ALL CONDUCTORS SHALL BE NEATLY BUNDLED TOGETHER AND SUPPORTED FROM ROOF STRUCTURE. WHERE BUNDLED WITH OTHER COMMUNICATION SYSTEMS, IDENTIFYING TAGS SHALL BE PROVIDED TO IDENTIFY THESE CONDUCTORS FROM OTHER SYSTEMS.
5. CONTRACTOR TO COORDINATE QUANTITY, SIZE AND LOCATION OF CONDUIT SLEEVES THRU RATED WALLS WITH ELECTRICAL CONTRACTOR PRIOR TO BID. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT SLEEVES AND FIRE PENETRATION SEAL AFTER CABLES ARE INSTALLED.

KEY NOTES:

1. DISTRICT FURNISHED AND INSTALLED.
2. NOTE USED.
3. TERMINATE VOICE FEED CABLES ON 66-TYPE PUNCH BLOCKS.
4. PROVIDE 12-STRAND MULTI-MODE OM4 FIBER OPTIC FEED CABLE. TERMINATE ALL FIBERS IN PATCH PANELS.



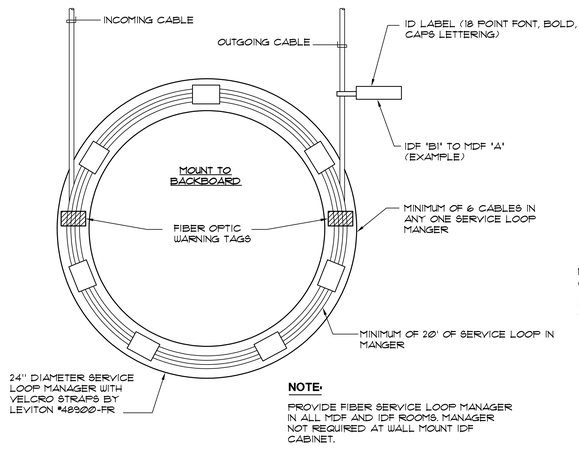
TYPICAL MDF/IDF ROOM GROUNDING DETAIL
2 / E4.2



NOTES:
1. REFERENCE EQUIPMENT RACK DETAILS FOR REQUIRED BACKBOARD HEIGHT.
2. REFERENCE FLOOR PLANS FOR BACKBOARD WIDTH REQUIRED FOR COVERING LARGER WALL AREAS THAN FOR ISOLATED EQUIPMENT INSTALLATIONS.

TYPICAL BACKBOARD DETAIL
NO SCALE

3 / E-4.2

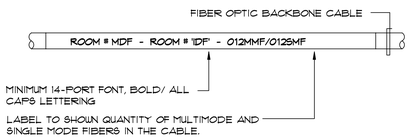


NOTE:

PROVIDE FIBER SERVICE LOOP MANAGER IN ALL MDF AND IDF ROOMS. MANAGER NOT REQUIRED AT WALL MOUNT IDF CABINET.

TYPICAL FIBER OPTIC FEED SERVICE LOOP DETAIL
NO SCALE

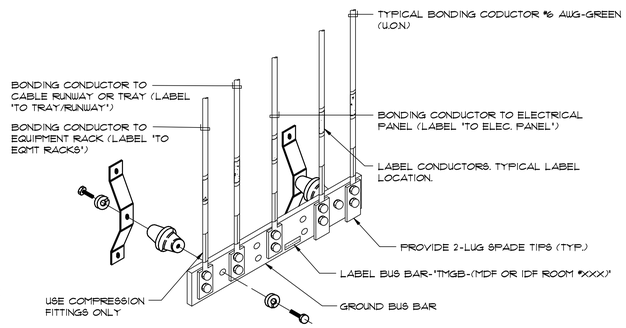
4 / E4.2



NOTES:
1. LABEL BOTH ENDS OF BACKBONE CABLES AND IN EACH ROOM IN WHICH THE CABLE ROUTES THROUGH.
2. ROOM DESIGNATIONS SHOWN IN DETAIL ARE AN EXAMPLE AND MAY NOT REFLECT ACTUAL ROOM INFORMATION.

TYPICAL BACKBONE LABELING DETAIL
NO SCALE

5 / E-4.2



PROVIDE "CPI # 40153-012 OR # 40153-020" GROUND BAR ASSEMBLY OR EQUAL. (PROVIDE INSULATOR ASSEMBLIES)

DATA/COMMUNICATION GROUNDING DETAIL
NO SCALE

6 / E-4.2

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COMMUNICATIONS DETAILS

E-4.2

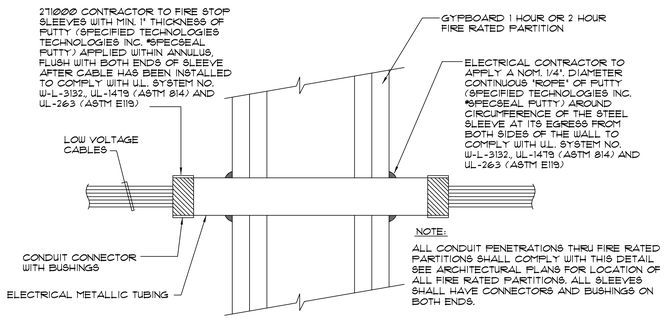
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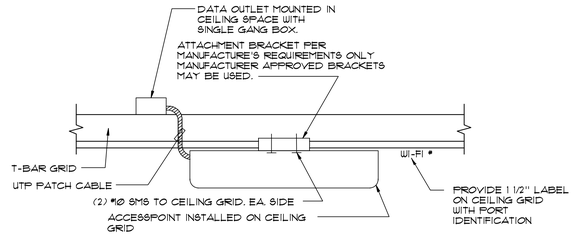
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COMMUNICATIONS CABLES SLEEVES PENETRATION DETAIL

1 / E4.3

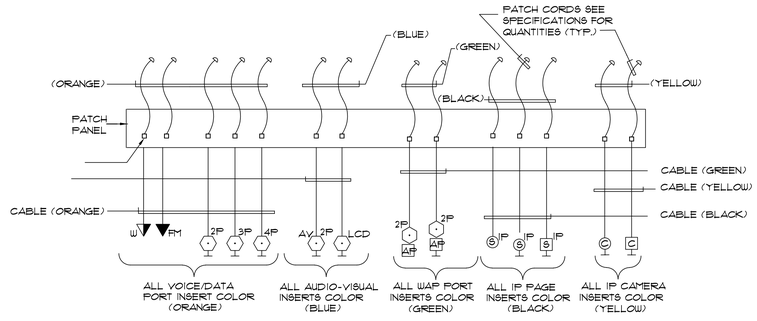
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WIRELESS ACCESS POINT ANTENNA MOUNTING DETAILS

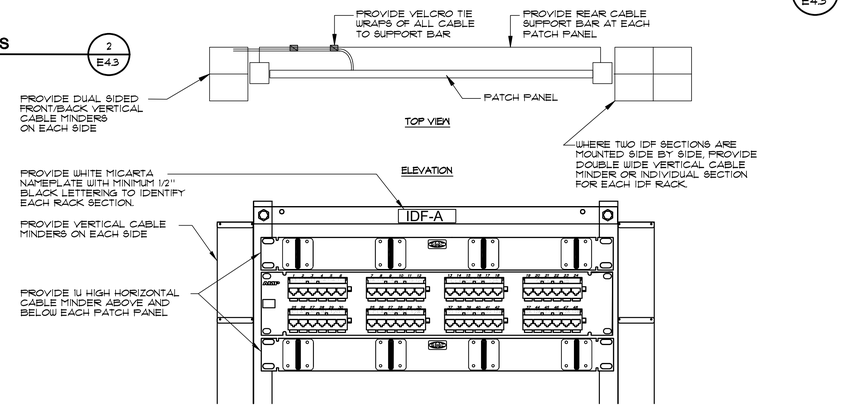
2 / E4.3

NO SCALE



COMMUNICATIONS HANDHOLE LABELING DETAIL (TYP.)

3 / E4.3



NOTES:

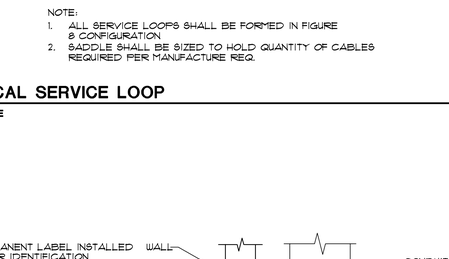
*1 REFERENCE CONTRACT DOCUMENTS FOR WHICH SYSTEMS, AND IN WHAT AREAS OPEN WIRE INSTALLATIONS ARE PERMITTED.

*2 SECURITY SYSTEMS CONTRACTOR MUST INSTALL THEIR OWN SUPPORT SYSTEM, SEPARATE FROM THE VOICE/DATA CABLING SUPPORT SYSTEM.

COMMUNICATION SYSTEM OOPEN/CONDUIT STUB DETAIL

4 / E4.3

NO SCALE



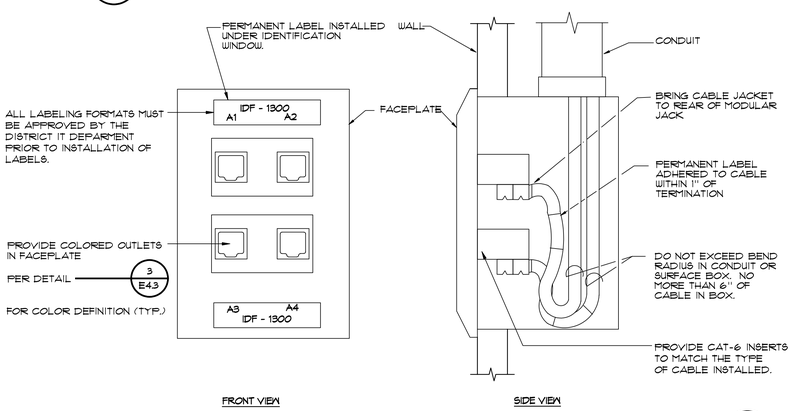
NOTE:

1. ALL SERVICE LOOPS SHALL BE FORMED IN FIGURE 8 CONFIGURATION
2. SADDLE SHALL BE SIZED TO HOLD QUANTITY OF CABLES REQUIRED PER MANUFACTURE REQ.

TYPICAL SERVICE LOOP

5 / E4.3

NO SCALE



TYPICAL FACEPLATE INSTALLATION DETAIL

8 / E4.3

NO SCALE

GENERAL NOTES:

1. ALL IDENTIFICATIONS SHALL BE MACHINE MADE. NO HAND WRITTEN LABELS. SEE SPECIFICATIONS. VERIFY IN WRITING ALL ROOM IDENTIFICATIONS WITH ARCHITECT PRIOR TO MAKING ANY LABELS.
2. ALL LABELING FORMATS ARE SUBJECT TO APPROVAL BY THE DISTRICT IT DEPARTMENT. CONTRACTOR MUST CONFIRM ALL LABELING FORMATS PRIOR TO INSTALLATION OF ANY LABELS AND MUST HAVE WRITTEN APROVAL.

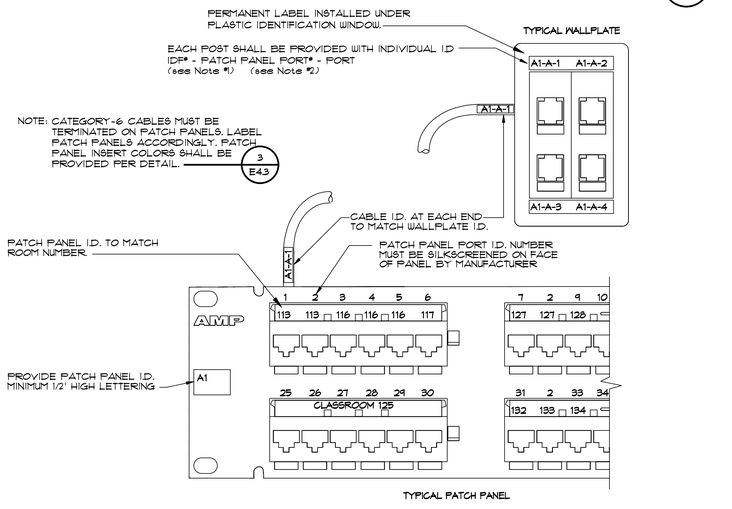
NOTE:

1. EACH IDF SHALL BE NUMBERED TO MATCH THE BUILDING NAME (IDF-A or IDF-100, FOR BUILDINGS WITH MULTIPLE IDF'S (IDF-A1, A2 or IDF-100A, 100B)
2. NUMBER TO MATCH MANUFACTURER'S PREPRINTED NUMBERS 1-48 ON PATCH PANEL
3. BOTH ROOM NUMBER AND PATCH PANEL PORT ASSIGNMENT MUST BE SHOWN ON PATCH PANEL.

TYPICAL IDF/MDF LABELING AND CABLE SUPPORT DETAIL

6 / E4.3

NO SCALE



TYPICAL DATA NETWORKING LABELING REQUIREMENTS

9 / E4.3

NO SCALE

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SHEET TITLE

COMMUNICATION DETAILS

E-4.3

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FIRE ALARM NOTE:
THIS FIRE ALARM DESIGN IS A COMPLETE PLAN SUBMITTAL IN ACCORDANCE WITH 2022 CBC 907.1.

FULLY AUTOMATIC FIRE ALARM DESIGN:
THIS PROJECT IS DESIGNED TO COMPLY WITH ALL REQUIREMENTS FOR A FULLY PROTECTED AUTOMATIC FIRE ALARM SYSTEM.

EXPANSION OF EXISTING SYSTEM:
THIS PROJECT ADDS TO AND OR MODIFIES AN EXISTING SYSTEM, PREVIOUSLY APPROVED BY DSA. ALL NEW COMPONENTS ARE COMPATIBLE WITH THE EXISTING SYSTEM EQUIPMENT.

FIRE ALARM SYMBOL LEGENDS

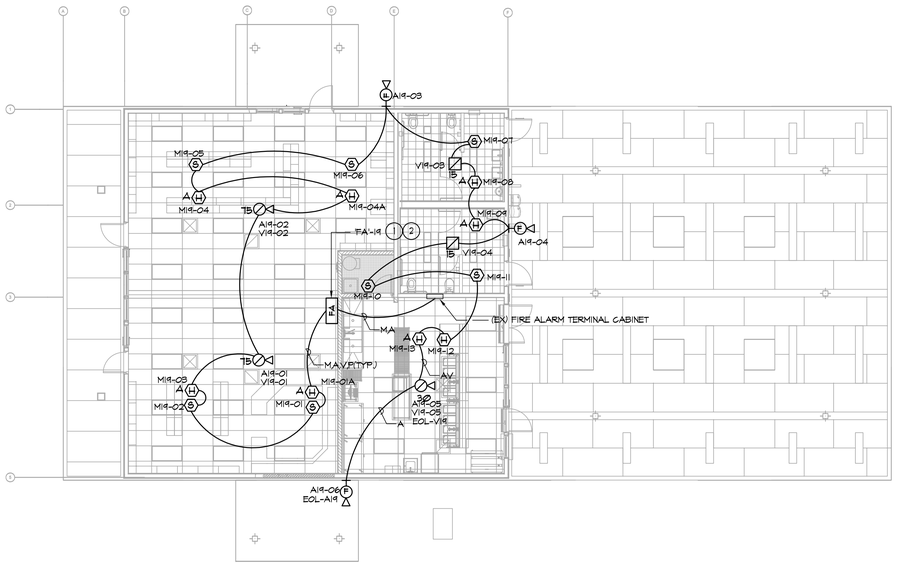
- S1 / 15 — CEILING MOUNTED FLASHING LIGHT STROBE (15 = STROBE CANDELA RATING) (S1 = SIGNAL CIRCUIT IDENTIFICATION)
- S1 / 15 — CEILING MOUNTED COMBINATION SPEAKER/STROBE (15 = STROBE CANDELA RATING) (S1 = SIGNAL CIRCUIT IDENTIFICATION)
- S1 F — WALL MOUNTED WEATHERPROOF EXTERIOR SPEAKER MOUNTED +80" AFF TO BOTTOM OF DEVICE (S1 = SIGNAL CIRCUIT IDENTIFICATION)
- S — CEILING MOUNTED SMOKE DETECTOR
- H — CEILING MOUNTED HEAT DETECTOR
- H / A — HEAT DETECTOR MOUNTED ABOVE CEILING (SEE GENERAL NOTE #6)
- FACP — MAIN FIRE ALARM CONTROL PANEL
- FA — REMOTE FIRE ALARM POWER EXTENDER
- EOL — END OF LINE RESISTOR

GENERAL NOTES:

1. REFERENCE ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT LOCATION OF ALL WALL MOUNTED DEVICES.
2. REFERENCE E5 AND E8 SERIES SHEETS FOR TYPICAL CONDUIT AND BACKBOX INSTALLATION DETAILS.
3. REFERENCE RISER DIAGRAMS FOR TYPICAL CONDUIT SIZES AND INITIATION ZONE CIRCUIT IDENTIFICATIONS.
4. REFERENCE MECHANICAL PLANS FOR EXACT LOCTION OF ALL DUCT DETECTORS AND SMOKE DAMPER LOCATIONS.
5. UNLESS OTHERWISE NOTED SOLID LINES BETWEEN DEVICES SHALL BE 1" E.M.T. ROUTED CONCEALED ABOVE CEILINGS OR IN WALLS. DASHED LINES INDICATE 1-1/2" P.V.C. UNDERGROUND CONDUIT. ALL WIRING TO BE PROVIDED PER MANUFACTURER SHOP DRAWINGS.
6. CONTRACTOR SHALL PROVIDE CEILING ACCESS PANEL AT ALL NON-LAYIN TYPE CEILINGS, WHERE HEAT DETECTOR ABOVE CEILING IS INDICATED.
7. PROVIDE WIRE PROTECTIVE GUARD OVER ALL FIRE ALARM DEVICES LOCATED IN THE FOLLOWING AREAS: GYMNASIUM, LOCKER ROOMS, SHOP AREAS, AND ANY OTHER AREA WHERE DEVICES MAY BE SUBJECT TO CONTACT.

KEY NOTES:

1. PROVIDE DEDICATED 120 VOLT CIRCUIT TO PANEL CONNECT TO "RED LOCK ON BREAKER". REFER TO POWER E3 SERIES SHEETS FOR CIRCUIT INFORMATION.
2. PROVIDE CONNECTION TO "FACP", REFER TO SITE PLAN SHEETS E1.1.



1 FLOOR PLAN - FIRE ALARM
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	4/14/2026	DSA V3 SUBMITTAL

PROJECT NO: #Pln
MODEL FILE:
25-0 LUSD Lemon Crest Kitchen Expansion.pln
PLOT DATE:
4/9/2026

SHEET TITLE
FLOOR PLAN
FIRE ALARM

E-5.1

REGISTERED PROFESSIONAL ENGINEER
No. E 14781
Exp. 6-30-2027
ELECTRICAL
STATE OF CALIFORNIA

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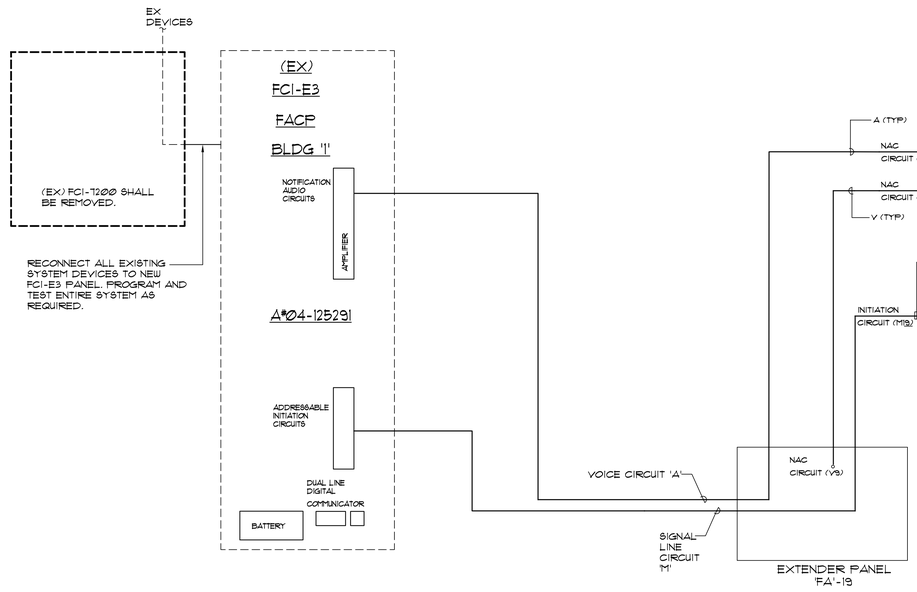
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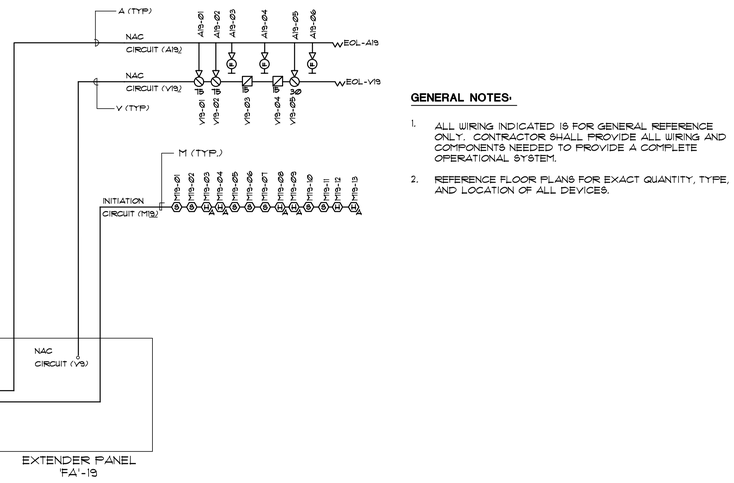
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(EX) FCI MODEL E3 W/ VOICE EVAC					
	SYM	MODEL NO.	DESCRIPTION	C.S.F.M. LISTING	MFG.
001	FACP	FCI-E3	(EX) FIRE ALARM CONTROL PANEL/VOICE EVAC	7165-1703:0125	GAMEWELL FCI
002	FA	HPF-PS10	REMOTE POWER SUPPLY	7315-1637:0505	HONEYWELL
007		ASD-PL3	INTELLIGENT SMOKE DETECTOR	7272-1703:0501	GAMEWELL FCI
		B300-6	SENSOR BASE	7300-1653:0109	GAMEWELL FCI
		ATD-L3H	INTELLIGENT HEAT DETECTOR (ABOVE CEILING)	7270-1703:0502	GAMEWELL FCI
		B300-6	SENSOR BASE	7300-1653:0109	SYSTEM SENSOR
016		ET-1010	EXTERIOR SPEAKER W/WBB BACKBOX	7320-0785:0105	COOPER WHEELOCK
019		SCWLED	STROBE (15/30/75/95/110/135/185) cd	7300-1653:0525	SYSTEM SENSOR
024		SPSCWLED	SPEAKER/STROBE - CEILING	7125-1653:0533	SYSTEM SENSOR
028		TYPE FPL	SIGNAL LINE CIRCUIT CONDUCTORS ('M')	7161-1727:0100	WINDY CITY
029		TYPE THHN	AUDIO VISUAL AND POWER CONDUCTORS (AV,P)	N/A	SOUTHWIRE

WIRING SCHEDULE			
DES	CONDUCTOR TYPE	WIRE COLOR	CIRCUIT TYPE
M	(1) 1 PR #14 TWISTED SHIELDED	RED/BLACK/SHIELD	SIGNAL LINE CIRCUIT
A	(1) #12 THHN (UON ON CALCS)	BLUE/WHITE	NOTIFICATION APP. CIRCUIT (NAC)
V	(1) #12 THHN (UON ON CALCS)	GREEN/BLUE	NOTIFICATION APP. CIRCUIT (NAC)
P	(2) #12 THHN	RED/BLACK	POWER





FIRE ALARM RISER DIAGRAM

NO SCALE

1 / E-5.2

GENERAL NOTES:

1. ALL WIRING INDICATED IS FOR GENERAL REFERENCE ONLY. CONTRACTOR SHALL PROVIDE ALL WIRING AND COMPONENTS NEEDED TO PROVIDE A COMPLETE OPERATIONAL SYSTEM.
2. REFERENCE FLOOR PLANS FOR EXACT QUANTITY, TYPE, AND LOCATION OF ALL DEVICES.

FIRE ALARM MONITORING NOTE:

1. AUTOMATIC FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 AS AMENDED BY CFC SECTION 907. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX OR UUJS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY OWNER.

FIRE ALARM GENERAL REQUIREMENTS:

1. THE COMPLETE INSTALLATION SHALL BE REVIEWED AND APPROVED BY THE ABOVE LOCAL MANUFACTURERS REPRESENTATIVE. SEE SPECIFICATIONS (28 30 01), FOR ADDITIONAL CONTRACTOR QUALIFICATIONS AND REQUIREMENTS.
2. UNLESS OTHERWISE NOTED SOLID LINES BETWEEN DEVICES SHALL BE 1" E.M.T. ROUTED CONCEALED ABOVE CEILINGS OR IN WALLS. DASHED LINES INDICATE 1-1/2" P.V.C. UNDERGROUND CONDUIT. ALL WIRING TYPES AND QUANITITES SHOWN ARE FOR INFORMATION ONLY. THE CONTRACTOR SHALL PROVIDE ALL WIRING AS REQUIRED TO MAKE A FULLY OPERATIONAL SYSTEM. SHOP DRAWINGS AND OR AS-BUILT DOCUMENTS SHALL INDICATE ALL WIRING PROVIDED.
3. THE AUDIBILITY OF FIRE ALARM WARNING DEVICES SHALL BE AUDIBLE THROUGH THE OCCUPANCY WITH A MINIMAL SOUND LEVEL 15 db's OVER THE AMBIENT NOISE LEVEL. ADD ADDITIONAL DEVICES AS REQUIRED.
4. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A REACCEPTANCE TEST OF THE ENTIRE SYSTEM SHALL BE PERFORMED IN THE PRESENCE OF THE ENFORCING AGENCY AND IN ACCORDANCE WITH SPECIFICATIONS (28 30 01). THE CONTRACTOR SHALL FURNISH db METERS AND ALL OTHER EQUIPMENT TO PERFORM THESE TESTS.
5. ALL OPERATING HARDWARE AT INITIATING DEVICES SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST, AND THE FORCE REQUIRED TO OPERATE SHALL BE LESS THAN 5 POUNDS.

APPLICABLE CODES/STANDARDS

SEE ARCH TITLE SHEET FOR APPLICABLE CODES AND STANDARDS

MAXIMUM NUMBER OF CONDUCTORS IN TRADE SIZES OF CONDUIT OR TUBING MINIMUM CONDUIT SIZE FOR THIS PROJECT IS 1"

CONDUIT TRADE SIZE (INCHES)		1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	5
TYPE LETTERS	CONDUCTOR SIZE AWG, kcmil											
THWN	14 12	13 10	24 18	39 29	69 51	94 70	154 114	164				
THHN	10 8	6 3	11 5	18 9	32 16	44 22	73 36	104 51	160 79	106	136	

TRADE SIZE	INTERNAL DIAMETER INCHES	AREA——SQUARE INCHES								
		100% INCHES	PERCENT REDUCTION PER NUMBER OF 18AWG TWISTED SHIELD PAIRS							
			OVER 2 COND. 40%	1	2	3	4	5	6	7	8
1/2	.622	.30	.12	38%	66%	99%	X	X	X	X	X
3/4	.824	.53	.21	19%	38%	57%	76%	95%	X	X	X
1	1.049	.86	.34	12%	24%	36%	48%	60%	72%	84%	96%
1 1/4	1.380	1.50	.60	7%	14%	21%	28%	35%	42%	49%	56%
1 1/2	1.610	2.04	.82	5%	10%	15%	20%	25%	30%	35%	40%
2	2.067	3.36	1.34	3%	6%	9%	12%	15%	18%	21%	24%

FIRE ALARM SEQUENCE OF OPERATION

DEVICE / ACTION	MANUAL PULL STATION	AREA/DUCT SMOKE/HEAT DETECTOR	AC POWER FAILURE		
SOUND ALARM THROUGHOUT BLDG.	YES	YES	NO		
ACTIVATE RELAY FOR MONITORING	YES	YES	YES		
ANNUNCIATE AT PANEL AND ANNUNCIATOR	YES	YES	YES		
SOUND TROUBLE BUZZER	ON WIRING FAULT	ON WIRING FAULT	YES		
REPORT TO MONITORING STATION	YES	YES	YES		

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APP# 04-124851 INC#

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LAKESIDE UNION SCHOOL DISTRICT

KITCHEN EXPANSION

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LAKESIDE, CA 92040

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FIRE ALARM SCHEDULE, NOTES & RISER DIAGRAM

E-5.2

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Building '19' (FA-19)

Remote Extender Panel

Supplementary Notification Appliance Circuit Battery Calculations

	Standby Amperage				Alarm Amperage			
Type of Device Or Equipment	Qty	Current	Total		Quantity	Current		Total
Exteior Speaker @ 2 watt tap	3	0.000	0.000		3	0.08300		0.249
NAC Panel	1	0.156	0.156		1	0.185		0.185
15cd Wall Speaker/Strobe					0	0.030		0.000
30cd Wall Speaker/Strobe					0	0.040		0.000
75cd Wall Speaker/Strobe					0	0.115		0.000
110cd Wall Speaker/Strobe					0	0.200		0.000
0					0	0.000		0.000
0					0	0.000		0.000
15cd (Ceiling) Speaker/Strobe					0	0.018		0.000
30cd (Ceiling) Speaker/Strobe					1	0.022		0.022
75cd (Ceiling) Speaker/Strobe					2	0.070		0.140
95cd (Ceiling) Speaker/Strobe					0	0.075		0.000
0					0	0.000		0.000
0					0	0.000		0.000
0					0	0.000		0.000
15cd Wall Strobe					0	0.057		0.000
30cd Wall Strobe					0	0.085		0.000
75cd Wall Strobe					0	0.135		0.000
110cd Wall Strobe					0	0.182		0.000
135cd Wall Strobe					0	0.205		0.000
185cd Wall Strobe					0	0.253		0.000
15cd (Ceiling) Strobe					2	0.018		0.036
30cd (Ceiling) Strobe					0	0.022		0.000
75cd (Ceiling) Strobe					0	0.070		0.000
95cd (Ceiling) Strobe					0	0.075		0.000
0					0	0.000		0.000
Speaker only @ 1/4 watt tap					0	0.00357		0.000
Speaker only @ 2 watt tap					0	0.02857		0.000
Total Standby Amperage			**0.156**		**Total Alarm Amperage**			**0.632**

Standby Time Required

24 Hours x Total Standby Amperage = 24 x 0.156 = 3.744 Amp Hours

Alarm Time Required

.25(1 5 Min.) x Total Alarm Amperage = .25 x 0.632 = 0.158 Amp Hours

Total Required = **3.902** Amp Hours

x125% = 4.8775

Provide Battery & Minimum Battery Amp Hour Required = **7** Amp Hours

Fire Alarm Voltage Drop Calculations

Calculation Formula:

Total Current x Feet x 21.6 / Circular Mills (Voltage Drop)

Circular Mils Using #10 wire =10380
Circular Mils Using #12 wire = 6530
Circular Mils Using #14 wire = 4110
Circular Mils Using #18 wire = 1620

Voltage Drop / 24 Volts x 100 Percent = Percentage Voltage Drop

Building '19' (FA-19)

Device Type	Circuit: V19/A19 Devices	x Current	Total Current	Circuit: 0 Devices	x Current	Total Current	Circuit: 0 Devices	x Current	Total Current	Circuit: 0 Devices	x Current	Total Current
Exteior Speaker @ 2 watt tap	3	0.08300	0.249	0	0.08300	0.000	0	0.08300	0.000	0	0.08300	0.000
Dual Sync Module	0	0.035	0.000	0	0.035	0.000	0	0.035	0.000	0	0.035	0.000
15cd Wall Speaker/Strobe	0	0.030	0.000	0	0.030	0.000	0	0.030	0.000	0	0.030	0.000
30cd Wall Speaker/Strobe	0	0.040	0.000	0	0.040	0.000	0	0.040	0.000	0	0.040	0.000
75cd Wall Speaker/Strobe	0	0.115	0.000	0	0.115	0.000	0	0.115	0.000	0	0.115	0.000
110cd Wall Speaker/Strobe	0	0.200	0.000	0	0.200	0.000	0	0.200	0.000	0	0.200	0.000
	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
15cd (Ceiling) Speaker/Strobe	0	0.018	0.000	0	0.018	0.000	0	0.018	0.000	0	0.018	0.000
30cd (Ceiling) Speaker/Strobe	1	0.022	0.022	0	0.022	0.000	0	0.022	0.000	0	0.022	0.000
75cd (Ceiling) Speaker/Strobe	2	0.070	0.140	0	0.070	0.000	0	0.070	0.000	0	0.070	0.000
95cd (Ceiling) Speaker/Strobe	0	0.075	0.000	0	0.075	0.000	0	0.075	0.000	0	0.075	0.000
	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
15cd Wall Strobe	0	0.057	0.000	0	0.057	0.000	0	0.057	0.000	0	0.057	0.000
30cd Wall Strobe	0	0.085	0.000	0	0.085	0.000	0	0.085	0.000	0	0.085	0.000
75cd Wall Strobe	0	0.135	0.000	0	0.135	0.000	0	0.135	0.000	0	0.135	0.000
110cd Wall Strobe	0	0.182	0.000	0	0.182	0.000	0	0.182	0.000	0	0.182	0.000
135cd Wall Strobe	0	0.205	0.000	0	0.205	0.000	0	0.205	0.000	0	0.205	0.000
185cd Wall Strobe	0	0.253	0.000	0	0.253	0.000	0	0.253	0.000	0	0.253	0.000
15cd (Ceiling) Strobe	2	0.018	0.036	0	0.018	0.000	0	0.018	0.000	0	0.018	0.000
30cd (Ceiling) Strobe	0	0.022	0.000	0	0.022	0.000	0	0.022	0.000	1	0.022	0.022
75cd (Ceiling) Strobe	0	0.070	0.000	0	0.070	0.000	0	0.070	0.000	1	0.070	0.070
95cd (Ceiling) Strobe	0	0.075	0.000	0	0.075	0.000	0	0.075	0.000	0	0.075	0.000
0	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
Speaker only @ 1/4 watt tap	0	0.00357	0.000	0	0.00357	0.000	0	0.00357	0.000	0	0.00357	0.000
Speaker only @ 2 watt tap	0	0.02857	0.000	0	0.02857	0.000	0	0.02857	0.000	0	0.02857	0.000
		Total	0.447		**Total**	0.000		**Total**	0.000		**Total**	0.092
Circuit Length:	300			0			0			0		
Circular mils:	6530			6530			6530			6530		
Volts dropped:	0.44			0.00			0.00			0.00		
Percent voltage drop:	**1.85%**			**0.00%**			**0.00%**			**0.00%**		

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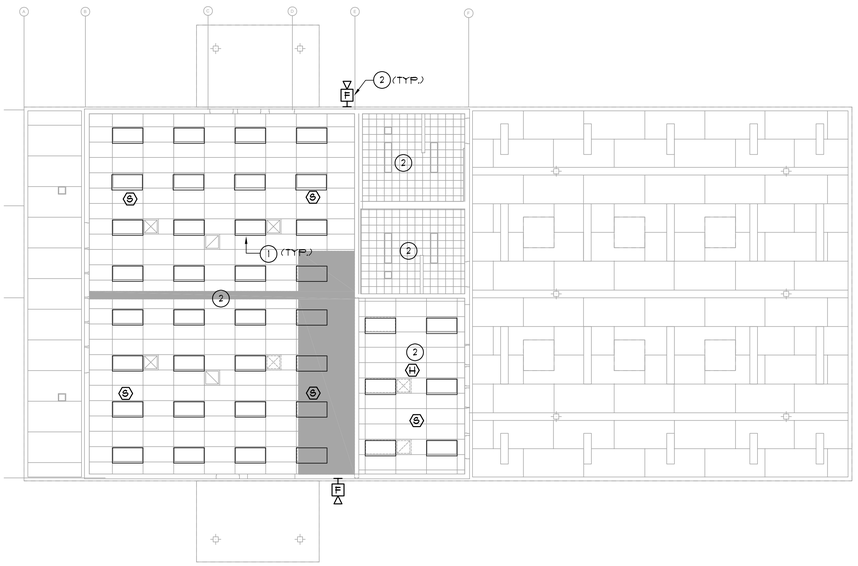
FIRE ALARM CALCS & DETAILS

E-5.3

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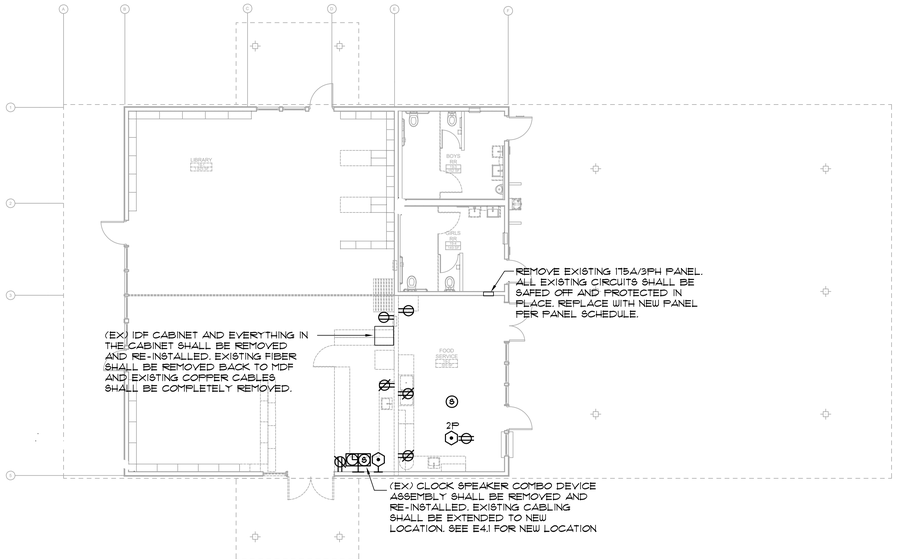
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DEMOLITION FLOOR PLAN - LIGHTING & FIRE ALARM

1/8" = 1'-0"



DEMOLITION FLOOR PLAN - POWER & COMM

1/8" = 1'-0"

DEMOLITION GENERAL NOTES:

1. ALL ITEMS SHOWN ON THIS DRAWING ARE EXISTING TO BE REMOVED UNLESS OTHERWISE NOTED. SEE REQUIREMENTS BELOW FOR SCOPE OF WORK. ALL OTHER ELECTRICAL ITEMS IN THIS BUILDING ARE EXISTING TO REMAIN. MAINTAIN POWER CIRCUIT CONTINUITY UNTIL NEW SOURCE IS ENERGIZED AND READY FOR TRANSFER, REFER TO POWER AND LIGHTING PLANS.
2. ALL ELECTRICAL DEMOLITION WORK SHALL BE DIRECTED BY THE ELECTRICAL CONTRACTOR.

GENERAL DEMOLITION REQUIREMENTS

1. LIGHTING FIXTURES
   WHERE EXISTING LIGHTING FIXTURES ARE TO BE REMOVED, AND ARE NOT RELOCATED, CONTRACTOR SHALL DISPOSE OF ALL FIXTURES INCLUDING LAMPS AND BALLAST.
2. WIRING DEVICES
   WHERE EXISTING SWITCHES OR RECEPTACLES ARE TO BE REMOVED, THE CONTRACTOR SHALL DISPOSE OF ALL DEVICES AS REQUIRED.
3. COMMUNICATION DEVICES
   WHERE EXISTING TELEPHONE/INTERCOM AND CLOCK HEAD END EQUIPMENT, PHONES, SPEAKERS AND OTHER ASSOCIATED EQUIPMENT ARE TO BE REMOVED, THE CONTRACTOR SHALL DISPOSED OF ALL DEVICES AND EQUIPMENT AS REQUIRED.
4. FIRE ALARM
   WHERE EXISTING FIRE ALARM PANELS AND ASSOCIATED SMOKE, HEAT, DUCT DETECTORS, PULL STATIONS AND STROBE OR HORN UNITS ARE TO BE REMOVED, THE CONTRACTOR SHALL DISPOSED OF ALL DEVICES AND EQUIPMENT AS REQUIRED.
5. INTRUSION ALARM
   EXISTING INTRUSION ALARM SENSORS AND EQUIPMENT SHALL BE REMOVED WHERE INDICATED, RETURN ALL DEVICES TO THE SCHOOL DISTRICT MAINTENANCE FACILITIES.
6. POWER EQUIPMENT
   WHERE EXISTING SWITCHBOARDS, PANELBOARDS, LOAD CENTERS, TRANSFORMERS, DISCONNECT SWITCHES OR OTHER DISTRIBUTION EQUIPMENT ARE TO BE REMOVED, THE CONTRACTOR SHALL DISPOSED OF ALL DEVICES AND EQUIPMENT AS REQUIRED.
7. ALL BOXES, EXPOSED CONDUIT, WIRE, AND OTHER ITEMS ASSOCIATED WITH ELECTRICAL EQUIPMENT TO BE REMOVED, SHALL BE DISCONNECTED, REMOVED AND DISPOSED OF BY THE CONTRACTOR AS REQUIRED, UNLESS SPECIFICALLY NOTED OTHERWISE. CUT AND CAP CONCEALED CONDUITS. PATCH, SEAL AND REPAIR SURFACE TO MATCH ADJACENT AREA WHERE BOXES ARE REMOVED.

KEY NOTES:

1. REMOVE EXISTING LIGHTING FIXTURE. EXISTING CIRCUIT SHALL BE REMOVED COMPLETELY.
2. EXISTING FIRE ALARM SYSTEM INCLUDING DEVICES, CONDUIT AND CABLING SHALL BE REMOVED.

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PLUMBING LEGEND (SYMBOLS) AND ABBREVIATIONS

VALVES AND FITTINGS

- BALL VALVE
- CHECK VALVE
- BACKFLOW PREVENTOR
- GATE VALE
- PRESSURE REDUCING VALVE
- CONTROL VALVE
- CALIBRATED BALANCING VALVE
- BUTTERFLY VALVE
- PLUG VALVE
- AUTOMATIC FLOW CONTROL VALVE
- TRIPLE DUTY VALVE
- SOLENOID VALVE
- BLIND FLANGE
- TRI-CLAMP
- PIPE CAPE
- UNION
- REDUCER
- STRAINER
- THERMOMETER
- PRESSURE GAUGE
- RELIEF VALVE
- CLEAN-OUT TO GRADE (COTG)
- FLOOR CLEAN OUT (CO)
- WALL CLEAN-OUT OR CLEAN-OUT BELOW FLOOR

PIPING

- W — SEWER OR WASTE BELOW FLOOR OR GRADE
- W — SEWER OR WASTE ABOVE FLOOR OR GRADE
- GW — GREASE WASTE BELOW FLOOR OR GRADE
- LW — LAB WASTE BELOW FLOOR OR GRADE
- LW — LAB WASTE OR WASTE ABOVE FLOOR OR GRADE
- PIPE WITH HEAT TRACE
- RD — ROOF DRAIN
- ORD — OVERFLOW ROOF DRAIN
- CD — CONDENSATE DRAIN
- V — SANITARY VENT
- LV — LAB VENT
- DOMESTIC COLD WATER (CW)
- DOMESTIC HOT WATER (HW)
- DOMESTIC HOT WATER RETURN (HWR)
- INDUSTRIAL COLD WATER (ICW)
- INDUSTRIAL HOT WATER (IHW)
- INDUSTRIAL HOT WATER RETURN (IHWR)
- CCA — CLEAN COMPRESED AIR
- VAC — VACUUM
- SW — SOFTWATER
- D — DRAIN
- PIPE DOWN
- PIPE UP
- PIPE DOWN

SYMBOLS

- FLOOR SINK
- FLOOR DRAIN
- ROOF DRAIN / OVERFLOW DRAIN
- AREA DRAIN / DECK DRAIN
- SEWER CONNECTION
- WATER CONNECTION
- STORM DRAIN CONNECTION
- EQUIPMENT TAG
  A = TYPE
  B = EQUIPMENT NUMBER / UNIQUE IDENTIFIER
- PLUMBING FIXTURE TAG
  A = FIXTURE TYPE
  B = FIXTURE IDENTIFIER
- DETAIL/SHEET REFERENCE
  (DETAIL "A" ON DRAWING "B")
- SECTION REFERENCE
  (SECTION "A" ON DRAWING "B")
  CONNECT TO EXISTING EQUIPMENT, DUCTWORK, PIPING
- REMOVE EXIST. EQUIP. OR PIPES SHOWN HATCHED
- CONNECTION TO EXISTING PIPE
- LIMITS OF PIPING DISCONNECTION
- TRAP PRIMER
- WATER HAMMER ARRESTOR (P.D.I. SIZE)

ABBREVIATIONS

A/C	ABOVE CEILING	FPM	FEET PER MINUTE	PH	PHASE
AD	AREA DRAIN	FPS	FEET PER SECOND	PLBG	PLUMBING
AFF	ABOVE FINISHED FLOOR	GAL.	GALLON	PSIG	POUNDS PER SQUARE INCH GAUGE
AFG	ABOVE FINISHED GRADE	GPH	GALLON PER HOUR	QTY	QUANTITY
AP	ACCESS PANEL	GPM	GALLON PER MINUTE	S	SINK
ARCH	ARCHITECT OR ARCHITECTURAL	HDR	HEADER	S.S.	STAINLESS STEEL
B/G	BELOW GRADE	HP	HORSE POWER	SEC	SECOND
B/F	BELOW FLOOR	HPG	HIGH PRESSURE GAS	SH	SHOWER
BEL.	BELOW	HVAC	HEATING VENTILATING AND AIR-CONDITIONING	SHT	SHEET
CLG	CEILING	HZ	HERTZ	SOV	SHUT- OFF VALVE
CONC	CONCRETE	I.E.	INVERT ELEVATION	SPEC	SPECIFICATION
CONT	CONTINUATION	IN	INCHES	SQ.FT.	SQUARE FEET OR SQUARE FOOT
CONTR	CONTRACTOR	IN WG	INCHES OF WATER GAUGE	STD	STANDARD
DEG F	DEGREES FAHRENHEIT	INV	INVERT	STRUCT	STRUCTURAL
DIA	DIAMETER	K.W.	KILOWATTS	TBR	TO BE REMOVED
DN	DOWN	LAV	LAVATORY	TEMP.	TEMPERATURE
DWGS	DRAWINGS	LPG	LOW PRESSURE GAS	TYP	TYPICAL
DTR	DOWN THROUGH ROOF	MAX	MAXIMUM	UR	URINAL
E	EXISTING	MECH	MECHANICAL	U.N.O.	UNLESS NOTED OTHERWISE
ELECT	ELECTRICAL	MFR.	MANUFACTURER	UTR	UP THROUGH ROOF
ELEV	ELEVATION	MIN	MINIMUM	VTR	VENT THROUGH ROOF
ETR	EXISTING TO REMAIN	MPG	MEDIUM PRESSURE GAS	WC	WATER CLOSET
EWC	ELECTRIC WATER COOLER	MS	MOP SINK	W/	WITH
FFE	FINISH FLOOR ELEVATION	MTD	MOUNTED	W/O	WITHOUT
FIN	FINISH OR FINISHED	NIC	NOT IN CONTRACT	VFD	VARIABLE FREQUENCY DRIVE
FLR	FLOOR	NO	NUMBER		
FT	FEET OR FOOT	NP	NON-POTABLE		
FLX	FLEXIBLE CONNECTION	NTS	NOT TO SCALE		
		OPER	OPERATING		

PLUMBING PLAN CHECK NOTES

1. WHERE PLUMBING PENETRATES THE FIRE RESISTIVE WALLS (AREA SEPARATION AND OCCUPANCY SEPARATION), THE SECTION PASSING THROUGH THE WALL SURFACE, AND THE FIXTURE CONNECTIONS ATTACHED THERETO, SHALL MEET CBC, FIRE AND TEMPERATURE RATING.
2. ALL WATER HEATERS SHALL BE LISTED IN THE CEC LIST OF APPROVED WATER HEATERS.
3. ALL SERVICE HOT WATER PIPING SHALL BE INSULATED IN ACCORDANCE WITH CEC T-24, LATEST VERSION
4. ALL HOSE BIBBS SHALL HAVE PERMANENTLY MOUNTED VACUUM BREAKERS.
5. CROSS CONNECTION PROTECTION SHALL BE PROVIDED AT ALL POTABLE WATER SUPPLIED APPLIANCES AND EQUIPMENT.
6. BACK FLOW PREVENTION ASSEMBLIES SHALL BE TESTED BY A CERTIFIED BACK FLOW ASSEMBLY TESTER PRIOR TO USE OR OCCUPANCY.
7. LAVATORY FAUCETS IN TRANSIENT PUBLIC REST ROOMS SHALL BE THE SELF-CLOSING TYPE, PER 407.4 CPC.
8. ALL CONDENSATE DRAIN PIPING FROM MECHANICAL UNITS SIZED ACCORDING TO SECTION 310.3. CMC. SLOPE ALL CD AT 1% TYPICAL.
9. VALVES, FIXTURES AND ALL OTHER APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF CALIFORNIA ASSEMBLY BILL AB1953, LOW LEAD CONTENT AS APPLICABLE.
10. PLUMBING FIXTURES (WATER CLOSETS AND URINALS) AND FITTINGS (FAUCETS AND SHOWERHEADS) SHALL MEET THE STANDARDS REFERENCED IN TABLE 5.503.6 OF DIVISION 5.3 OF THE 2022 CALIFORNIA GREEN CODE.
11. ALL SANITARY SYSTEM MATERIALS SHALL BE LISTED BY AN APPROVED LISTING AGENCY.
12. EACH VENT SHALL RISE VERTICALLY TO A POINT NOT LESS THAN SIX (6) INCHES ABOVE THE FLOOD LEVEL RIM OF THE FIXTURE SERVED BEFORE OFFSETTING HORIZONTALLY OR BEFORE BEING CONNECTED TO ANY OTHER VENT.

PIPE MATERIAL SCHEDULE

DOMESTIC WATER PIPING ABOVE & BELOW GRADE, INSIDE BUILDING:

1. TYPE "L" COPPER TUBING, HARD DRAWN CONFORMING TO ASTM B 88, WITH WROUGHT COPPER SOLDER SWEAT FITTINGS CONFORMING TO ASTM B 16.22.
2. ANY WATER PIPING LOCATED BELOW GRADE SHALL BE TYPE "K" COPPER TUBING WITH BRAZED JOINTS WRAPPED IN PE FILM. HARD DRAWN 3" AND BELOW, SOFT COPPER 4" AND ABOVE.

CONDENSATE PIPING:

1. FOR COOLING COILS: TYPE "M" COPPER CONFORMING TO ASTM B 88M, TYPE C WITH WROUGHT COPPER FITTINGS CONFORMING TO ASTM B 16.22M. PROVIDE INSULATION ON ALL CONDENSATE PIPING WITHIN BUILDING.

SEWER WASTE, VENT & STORM DRAIN PIPING BELOW GRADE:

1. SOLID-WALL PVC PIPE, ASTM D 2665, DRAIN, WASTE AND VENT PIPING. PVC SOCKET FITTINGS CONFORMING TO ASTM D 2665, SOCKET TYPE, MADE TO ASTM D 3311 DRAIN, WASTE, AND VENT PATTERNS. INSTALL BELOW SLAB/GRADE PVC PIPING PER ASTM D 2321.

SEWER WASTE, VENT & STORM DRAIN PIPING ABOVE GRADE:

1. CAST IRON "NO-HUB" CONFORMING TO CISPI 301 AND ASTM A 888 WITH NEOPRENE GASKET AND 300 SERIES STAINLESS STEEL CLAMPING DEVICE CONFORMING TO CISPI 310.
   A. DRAIN PIPING: HEAVY DUTY, SHIELDED. STAINLESS-STEEL COUPLINGS: WITH STAINLESS-STEEL SHIELD, STAINLESS-STEEL BANDS AND TIGHTENING DEVICES, AND ASTM C 564, RUBBER SLEEVE.
   B. VENT PIPING: STANDARD, SHIELDED. CISPI 310 STAINLESS-STEEL COUPLINGS: WITH STAINLESS-STEEL SHIELD, STAINLESS-STEEL BANDS AND TIGHTENING DEVICES, AND ASTM C 564, RUBBER SLEEVE.

PLUMBING GENERAL NOTES

1. CONTRACTOR SHALL CAREFULLY REVIEW THESE PLANS AND SPECIFICATIONS PRIOR TO BID. CONTRACTOR SHALL ALSO REVIEW PLANS AND SPECIFICATIONS OF OTHER RELATED TRADES (INCLUDING CIVIL, STRUCTURAL, AND ELECTRICAL) PRIOR TO BID TO INSURE AN ACCURATE UNDERSTANDING OF EXACT SCOPE OF WORK. ANY ITEMS REQUIRING CLARIFICATION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN SUFFICIENT TIME TO BE INCORPORATED INTO THE BID.
2. CONTRACTOR SHALL VERIFY ALL EQUIPMENT MODEL NUMBERS, CAPACITIES, SIZES, VOLTAGES, AND ALL OTHER SCHEDULED INFORMATION WITH OTHER APPLICABLE TRADES AND WITH THE MANUFACTURER PRIOR TO INSTALLATION.
3. CONTRACTOR SHALL VERIFY ALL LOCATIONS, SIZES, POCs, INVERT ELEVATIONS, AND AVAILABILITY OF ALL EXISTING UTILITIES PRIOR TO INSTALLATION OF ANY MATERIAL OR EQUIPMENT.
4. THESE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ARE NOT INTENDED TO INDICATE ALL DETAILS AND NECESSARY OFFSETS OF PIPING. THE CONTRACTOR SHALL INSTALL MATERIAL AND EQUIPMENT IN A MANNER AS TO CONFORM TO STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEADROOM, AND KEEP OPENINGS AND PASSAGEWAYS CLEAR. ALL INSTALLATIONS SHALL BE CONSISTENT WITH NORMALLY ACCEPTABLE INDUSTRY STANDARDS.
5. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES OR CONFLICTS THAT WOULD EFFECT THE SYSTEM PERFORMANCE OR INCUR ADDITIONAL COSTS. THIS NOTIFICATION SHALL BE SUBMITTED PRIOR TO INSTALLATION OF THE ITEMS CONCERNED.
6. NEW AND/OR EXISTING EQUIPMENT INDICATED ON THIS DRAWING IS SHOWN IN APPROXIMATE POSITION(S). CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS INCLUDING EQUIPMENT LOCATIONS, POC'S AND STRUCTURAL MEMBERS PRIOR TO INSTALLATION. IN ALL CASES, ADEQUATE ACCESS (PER MANUFACTURERS RECOMMENDATIONS AND CODE COMPLIANCE) FOR MAINTENANCE AND REPLACEMENT OF EQUIPMENT SHALL BE PROVIDED.
7. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES. NOTHING SHOWN ON THE PLANS OR STATED IN THE SPECIFICATIONS IS INTENDED TO INDICATE THAT THE INSTALLATIONS OR CONNECTIONS OF ANY ITEM OR DEVICE SHOULD BE DONE CONTRARY TO MANUFACTURERS INSTRUCTIONS AND ALL APPLICABLE CODES AND REGULATIONS.
8. THE CONTRACTOR IS RESPONSIBLE TO INSURE THAT THE INSTALLATIONS AND CONNECTIONS OF ALL ITEMS AND DEVICES CONFORMS TO MANUFACTURERS INSTRUCTIONS AND TO ALL APPLICABLE CODES AND REGULATIONS.
9. SUBSTITUTION OF PLUMBING EQUIPMENT WITH EFFICIENCIES LOWER THAN THOSE INDICATED ON THE PLANS MAY REQUIRE RE-CALCULATION OF TITLE 24 DOCUMENTS. IF THE CONTRACTOR CHOOSES TO UTILIZE SUCH EQUIPMENT, HE ASSUMES FULL RESPONSIBILITY FOR THE RE-CALCULATION AND JURISDICTIONAL APPROVAL OF TITLE 24 DOCUMENTS.
10. IF THE CONTRACTORS' USE OF SUBSTITUTE MATERIALS, EQUIPMENT OR METHODS OF INSTALLATION REQUIRES ANY CHANGES IN OTHER TRADES WORK FROM THAT SHOWN ON THE DRAWINGS, THE EXTRA COST OF THE OTHER TRADES' WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR INITIATING THE SUBSTITUTION.
11. SUBMITTALS: APPROVAL, "TAKING NO EXCEPTION TO", OR REVIEW OF THE SUBMITTALS DOES NOT RELEASE THE CONTRACTOR FROM OBLIGATIONS TO FULLY COMPLY WITH ALL REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS OR APPLICABLE CODE REGULATIONS.
12. ALL PLUMBING EQUIPMENT, MATERIAL, AND ALL CONNECTIONS THERETO SHALL BE INSTALLED COMPLETE PER MANUFACTURERS INSTRUCTIONS TO PROVIDE A COMPLETE AND FULLY OPERATIONAL SYSTEM.
13. PLUMBING EQUIPMENT SHALL BE CERTIFIED BY AND COMPLY WITH THE STATE OF CALIFORNIA ENERGY CONSERVATION STANDARDS (E.E.S.) SECTION 113. COMPLIANCE CERTIFICATES SHALL BE PROVIDED WITH EQUIPMENT SUBMITTALS.
14. WHERE NON-METALLIC PIPING PENETRATES AREA SEPARATION, 1 HOUR, OR 2 HOUR WALLS, THE PIPE SECTION PASSING THROUGH THE WALLS AND EXTENDING A DISTANCE OF 5 FEET ON EITHER SIDE THERE-OF SHALL BE OF METAL ONLY.
15. CONDENSATE DRAIN PIPING FROM EQUIPMENT WITHIN BUILDING SHALL BE INSULATED A MINIMUM DISTANCE OF 20 (TWENTY) FEET FROM SAID EQUIPMENT.
16. ALL INSULATING MATERIALS INSTALLED MUST BE CERTIFIED BY CALIFORNIA ENERGY COMMISSION TO MEET C.E.C. ENERGY EFFICIENCY STANDARDS (E.E.S.) SECTION 118, 123 AND 124.
17. SOIL, SEWER AND WASTE PIPING, UNLESS NOTED OTHERWISE, SHALL SLOPE AT 1/4" PER FOOT MINIMUM.
18. ALL PLUMBING SOLDER SHALL BE LEAD FREE.
19. ALL COMPONENTS OF POTABLE WATER SYSTEM, INCLUDING SHUT OFF VALVES, ANGLE STOPS, AND PLUMBING FIXTURE SHALL COMPLY WITH CALIFORNIA LAW AB 1953 AND SECTION 116875 OF THE CALIFORNIA HEALTH AND SAFETY CODE.

HOT WATER PIPING INSULATION

INSULATION OF DOMESTIC HOT WATER PIPING SHALL BE IN ACCORDANCE WITH SECTION 609.11.1 AND SECTION 609.11.2 CPC

- 609.11.1 – DOMESTIC HOT WATER PIPING SHALL BE INSULATED
- 609.11.2 – HOT WATER PIPE INSULATION SHALL HAVE A MINIMUM WALL THICKNESS OF NOT LESS THAN THE DIAMETER OF THE PIPE UP TO 2 INCHES IN DIAMETER. INSULATION WALL THICKNESS SHALL BE NOT LESS THAN 2 INCHES FOR A PIPE OF 2 INCHES OR MORE IN DIAMETER.

EXCEPTIONS:

1. PIPING THAT PENETRATES FRAMING MEMBERS SHALL NOT BE REQUIRED TO HAVE PIPE INSULATION FOR THE DISTANCE OF THE FRAMING PENETRATION.
2. HOT WATER PIPING BETWEEN THE FIXTURE CONTROL VALVE OR SUPPLY STOP AND THE FIXTURE OR APPLIANCE SHALL NOT BE REQUIRED TO BE INSULATED.

CAL GREEN FIXTURE WATER USE

FIXTURE	REFERENCED STANDARD	USE LIMIT
WATER CLOSET	5.303.3.1	EFFECTIVE FLUSH VOLUME SHALL NOT EXCEED 1.28 GPF.
WALL MOUNTED URINAL	5.303.3.2.1	EFFECTIVE FLUSH VOLUME SHALL NOT EXCEED 0.125 GPF.
SINGLE SHOWERHEAD	5.303.3.3.1	MAXIMUM FLOWRATE OF NOT MORE THAN 1.8 GPM AT 80 PSIG.
MULTIPLE SHOWERHEADS SERVING ONE SHOWER	5.303.3.3.2	COMBINED FLOW RATE OF ALL SHOWERHEADS AND/OR OTHER SHOWER OUTLETS CONTROLLED BY A SIGNLE VALVE SHALL NOT EXCEED 1.8 GPM AT 80 PSIG.
NON-RESIDENTIAL LAVATORY FAUCETS	5.303.3.4.1	MAXIMUM FLOW RATE OF NOT MORE THAN 0.5 GPM AT 60 PSIG.
KITCHEN FAUCETS	5.303.3.4.2	MAXIMUM FLOW RATE OF NOT MORE THAN 1.8 GPM AT 60 PSIG.
METERING FAUCETS	5.303.3.4.4	FLOW RATE SHALL NOT DELIVER MORE THAN 0.2 GALLONS PER CYCLE.
STANDARDS FOR PLUMBING FIXTURES	5.303.3.6	PLUMBING FIXTURES AND FITTING SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE, AND SHALL METET THE APPLICABLE STANDARDS REFERENCED IN TABLE 1701.1 OF THE CPC AND IN CHAPTER 6 OF CALIFORNIA GREEN BUILDING STANDARDS CODE.

APPLICABLE CODE: 2022 CBC

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

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

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

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

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

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

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

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

MP☐ MD☐ PP☒ E☐ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☐ MD☐ PP☐ E☐ OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) #_____.

IDENTIFICATION STAMP
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REVISIONS

MARK	DATE	DESCRIPTION
	4/14/2026	DSA V3 SUBMITTAL

PROJECT NO: #PIn

MODEL FILE:
25-0 LUSD Lemon Crest Kitchen Expansion.pln

PLOT DATE:
4/9/2026

SHEET TITLE

PLUMBING
LEGEND & NOTES

P0.1

J&R Engineering & Consulting, Inc.
16769 Bernardo Center Drive, Suite 1 #768
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Z:\Shared\AlphaStudio\ASDG Projects\Active Projects\25-003 LUSD Lemon Crest Kitchen Expansion\ArchiCAD\25-0 LUSD Lemon Crest Kitchen Expansion.pln

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PLUMBING FIXTURE SUMMARY

FIXTURE	QTY.	WATER		SEWER	
		WFU	TOTAL	DFU	TOTAL
WATER CLOSET – FLUSHVALVE	4	5	20	4	16
URINAL – FLUSHVALVE	1	4	4	2	2
LAVATORY	3	1	3	1	3
MOP SINK 23 24	1	3	3	3	3
3-COMPARTMENT SINK 04	1	3	3	–	–
HAND SINK 09	1	2	2	2	2
DRINKING FOUNTAIN	1	0.5	0.5	0.5	0.5
HOSE BIBB (FIRST)	1	2.5	2.5	–	–
HOSE BIBB (ADDITIONAL)	1	1	1	–	–
FLOOR DRAIN	2	–	–	1	2
FLOOR SINK (RECEPTOR)	1	–	–	4	4
BUILDING FU TOTAL			39		32.5
WATER GPM CONVERSION: 47 GPM					

HYDROMECHANICAL GREASE INTERCEPTOR SIZING

DIAMETER OF GREASE WASTE PIPE (inches)	MAXIMUM FULL PIPE FLOW (gpm)	SIZE OF GREASE INTERCEPTOR	
		ONE-MINUTE DRAINAGE PERIOD (gpm)	TWO-MINUTE DRAINAGE PERIOD (gpm)
2	20	20	10
3	60	75	35
4	125	150	75
5	230	250	125
6	375	400	200

SIZED PER 2019 CPC, CHAPTER 10, TABLE 1014.2.1.
A 75 GPM INTERCEPTOR IS REQUIRED AT ONE-MINUTE DRAINAGE PERIOD.

COLD WATER PIPE SIZE

PIPE SIZE	GPM (MAX)	VELOCITY (FT./SEC)	PRESSURE DROP (PSIG/100')	FIXTURE UNITS	
				FLUSH TANK	FLUSH VALVE
1/2"	5	6.9	17.6	6	–
3/4"	12	7.95	14.6	16	–
1"	20	7.8	10	30	5
1-1/4"	30	7.65	7.6	52	14
1-1/2"	40	7.21	5.5	85	28
2"	70	7.3	4	225	110
2-1/2	110	7.7	3.2	430	300

COLD WATER VELOCITY LIMITED TO 8 FEET PER SECOND.
LISTED VECOLITIES BASED ON CHART A 105.1 (3), 2019 CPC

HOT WATER PIPE SIZE

PIPE SIZE	GPM (MAX)	VELOCITY FT./SEC	FIXTURE UNITS FLUSH TANK
1/2"	2	2.5	2
3/4"	5	3.5	6
1"	12	4.5	16
1-1/4"	19	5	28
1-1/2"	27	5	46

HOT WATER VELOCITY LIMITED TO 5 FEET PER SECOND.
LISTED VECOLITIES BASED ON CHART A 105.1 (3), 2019 CPC

PLUMBING FIXTURES:

- PLUMBING FIXTURES AND ACCESSORIES PROVIDED IN A TOILET ROOM OR BATHING ROOM REQUIRED TO COMPLY WITH CBC SECTION 11B-213.2 SHALL COMPLY WITH CBC SECTION 11B-213.3.
- ALL SINGLE-USER TOILET FACILITIES SHALL BE IDENTIFIED AS GENDER-NEUTRAL FACILITIES WITH A DOOR SYMBOL PER CBC SECTIONS 11B-216.8 AND 11B-703.7.2.6.3. NO PICTOGRAM, TEXT OR BRAILLE IS REQUIRED ON THE SYMBOL. IF TACTILE JAMB SIGNAGE IS PROVIDED, THE SIGNAGE SHALL COMPLY WITH THE APPROPRIATE TECHNICAL REQUIREMENTS OF CBC SECTION 11B-703. EXAMPLES OF APPROPRIATE DESIGNATIONS ARE "ALL-GENDER RESTROOM", "RESTROOM" OR "UNISEX RESTROOM". DSA BU 17-01.
- ACCESSIBLE PLUMBING FIXTURES SHALL COMPLY WITH ALL THE REQUIREMENTS IN CBC CHAPTER 11B, DIVISION 6.
- CLEARANCE AROUND ACCESSIBLE WATER CLOSETS AND IN TOILET COMPARTMENTS SHALL BE 60 INCHES MINIMUM MEASURED PERPENDICULAR FROM THE SIDE WALL AND 56 INCHES MINIMUM MEASURED PERPENDICULAR FROM THE REAR WALL PER CBC SECTION 11B-604.3.1.
- HEIGHTS AND LOCATION OF ALL ACCESSIBLE PLUMBING FIXTURES AND COMPONENTS SHALL BE MOUNTED ACCORDING TO CBC SECTIONS 11B-602 THROUGH 11B-612.
- ACCESSIBLE FIXTURE CONTROLS SHALL COMPLY WITH CBC SECTIONS 11B-602.3 FOR DRINKING FOUNTAINS, 11B-604.6 FOR WATER CLOSETS, 11B-604.9.5 FOR CHILDREN'S WATER CLOSETS, 11B-605.4 FOR URINALS, 11B-606.4 FOR LAVATORIES AND SINKS, 11B-607.5 FOR BATHTUBS, 11B-608.5 FOR SHOWERS, AND 11B-611.3 FOR WASHING MACHINES AND CLOTHES DRYERS.
- ACCESSIBLE LAVATORIES AND SINKS SHALL BE MOUNTED WITH THE FRONT OF THE HIGHER OF THE RIM OR COUNTER SURFACE 34" MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. DEPTH OF LAVATORIES OR SINKS SHALL NOT INTERFERE WITH KNEE AND TOE CLEARANCE PROVIDED IN ACCORDANCE WITH CBC SECTION 11B-306 WHEN A FORWARD APPROACH IS REQUIRED. CBC SECTIONS 11B-606.3 AND 11B-606.7
- WATER SUPPLY AND DRAINPIPES UNDER ACCESSIBLE LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER ACCESSIBLE LAVATORIES AND SINKS. CBC SECTION 11B-606.5

PLUMBING FIXTURE CONNECTION SCHEDULE

MARK	DESCRIPTION	MINIMUM PIPE CONNECTION (INCHES)				MANUFACTURER / MODEL NUMBER	REMARKS
		CW	HW	WASTE	VENT		
FD-1	FLOOR DRAIN	–	–	2	1-1/2	ZURN #Z-415B. COATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE SLOTS AND "TYPE B" NICKLE BRONZE STRAINER WITH OPENING LESS THAN ½" AND TRAP PRIMER CONNECTION.	
FS-1	FLOOR SINK	–	–	3	2	ZURN #Z-1902, FLOOR SINK WITH SEEPAGE HOLES, 10" DEEP CAST IRON BODY AND SQUARE SLOTTED MEDIUM DUTY 1/2" GRATE WITH ANTI SPLASH ALUMINUM INTERIOR DOME STRAINER AND ACID RESISTANT COATED INTERIOR AND TOP.	
DF-1	DRINKING FOUNTAIN W/BOTTLE FILTER	1/2	–	2	1-1/2	ELKAY MODEL #VRCTLDDWSK, ADA COMPLIANT, BI-LEVEL, NON-FILTERED, NON-REFRIGERATED DRINKING FOUNTAIN WITH BOTTLE FILLER. PROVIDE 115V RECEPTACLE FOR BOTTLE FILLER PER ELECTRICAL PLANS.	

KITCHEN EQUIPMENT PLUMBING CONNECTION SCHEDULE

MARK	DESCRIPTION	MINIMUM PIPE CONNECTION (INCHES)					MANUFACTURER / MODEL NUMBER
		CW	HW	WASTE	VENT	GAS	
4	3-COMPARTMENT SINK	1/2	1/2	–	–	–	INDIRECT DRAIN TO FLOOR SINK. REFER TO KITCHEN EQUIPMENT SCHEDULE FOR SPECIFICATION
9	HAND SINK	1/2	1/2	2	1-1/2	–	REFER TO KITCHEN EQUIPMENT SCHEDULE FOR SPECIFICATION
23 24	MOP SINK W/FAUCET	3/4	3/4	3	2	–	REFER TO KITCHEN EQUIPMENT SCHEDULE FOR SPECIFICATION

GREASE INTERCEPTOR SCHEDULE

PLAN MARK	MANUFACTURER & MODEL NO.	SERVICE	LOCATION	CAPACITY (GAL)	GREASE CAPACITY (LBS)	FLOW RATE (GPM)	OVERALL DIMENSIONS (WxLxH)	REMARKS
GI 1	SCHIER GB-75	GREASE WASTE	BELOW FINISHED GRADE	118	861	75	33x47x40	–

WATER HEATER SCHEDULE

PLAN MARK	MANUFACTURER & MODEL NO.	SERVICE	LOCATION	CAPACITY (GAL)	HEATING CAPACITY		SYSTEM OUTLET TEMP. (DEG F)	RELIEF VALVE SETTING (PSIG)	ELECTRICAL DATA		OVERALL DIMENSIONS (DIA x HT)	ANCHORAGE DETAIL	OPER. WT. (LBS)	REMARKS
					RECOVERY (GPH)	TEMP RISE (DEG F)			V/PH/HZ	FULL LOAD AMPS (FLA)				
WH 1	AO SMITH DRE-52-15	DOMESTIC WATER	CLOSET 19-5	50	77	80	140	150	208/3/60	41.6	22" x 56"	6/P3.1	700	WATER HEATER WATTAGE IS BASED UPON SIMULTANEOUS OPERATION (3)3,000W = 15,000W

EXPANSION TANK SCHEDULE

PLAN MARK	MANUFACTURER & MODEL NO.	SERVICE	LOCATION	TANK			MAX ACCEPT FACTOR	REMARKS
				VOLUME (GALLONS)	DIAMETER (INCHES)	HEIGHT (INCHES)		
ET 1	AMTROL ST-12C-DD	DOMESITC HOT WATER	CLOSET 19-5	6.4	12	18	0.50	–

CIRCULATION PUMP SCHEDULE

PLAN MARK	MANUFACTURER & MODEL NO.	SERVICE	LOCATION	DESIGN CONDITIONS		MOTOR		REMARKS
				FLOWRATE (GPM)	HEAD (FT WG)	WATTS	V/PH/HZ	
CP 1	BELL & GOSSETT NBF-9U/LW	DOMESITC HOT WATER	CLOSET 19-5	2	9	41	120/1/60	PROVIDE AQUASTAT TO ACTIVATE PUMP WHEN HOT WATER RETURN REACHES 100 DEG F AND DEACTIVATE PUMP AT 120 DEG F AND AUTOMATIC TIMER KIT TO DEACTIVATE PUMP WHEN BUILDING IS UNOCCUPIED. SET SCHEDULE AFTER INSTALLATION IS COMPLETE AND COORDINATE WITH OWNER FOR SCHEDULE. COORDINATE WITH ELECTRIC CONTRACTOR FOR FIELD WIRING REQUIREMENTS

THERMOSTATIC MIXING VALVE SCHEDULE

PLAN MARK	MANUFACTURER & MODEL NO.	SERVICE	LOCATION	VALVE SPECS					REMARKS
				PRESSURE DROP (PSI)	FLOW (GPM)	CW INLET (INCHES)	HW INLET (INCHES)	MIXED (INCHES)	
TMV 1	BRADLEY S59-2045 (TMV45)	DOMESITC HOT WATER	CLOSET 19-5	5	12	3/4	3/4	1	9 GPM @ 5PSI DROP. SET OUTPUT TEMP TO 120 DEGREES F. MAX.

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PLUMBING SCHEDULES

P0.2

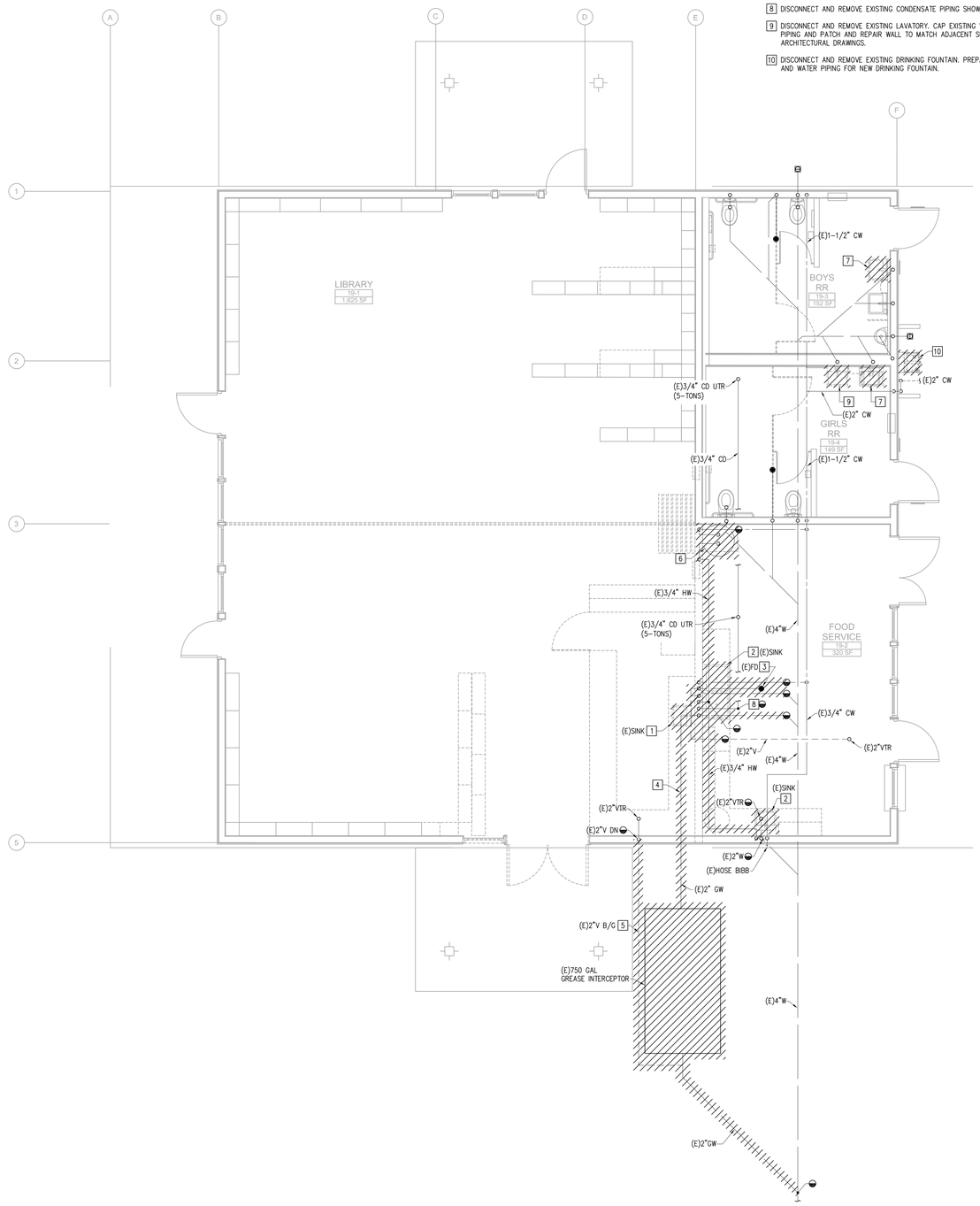
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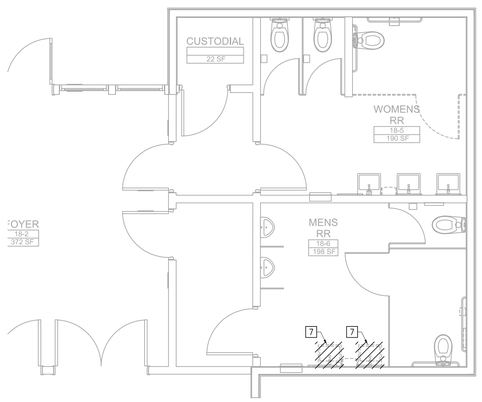
DEMOLITION NOTES

1. DISCONNECT AND REMOVE (E) LIBRARY SINK & UTILITY PIPING SHOWN CROSSHATCHED. CAP EXISTING WASTE BELOW GRADE.
2. DISCONNECT AND REMOVE (E) SINK & UTILITY PIPING SHOWN CROSSHATCHED.
3. DISCONNECT AND REMOVE (E) FLOOR DRAIN, WASTE AND VENT PIPING.
4. DISCONNECT AND REMOVE (E) 2" GREASE WASTE PIPING AND GREASE INTERCEPTOR.
5. DISCONNECT AND REMOVE (E) 2" VENT PIPING BELOW GRADE.
6. DISCONNECT AND REMOVE (E) WATER HEATER AND PIPING SHOWN CROSSHATCHED.
7. DISCONNECT AND RELOCATE EXISTING LAVATORY PER ARCHITECTURAL DRAWINGS. EXTEND EXISTING WATER & WASTE PIPING.
8. DISCONNECT AND REMOVE EXISTING CONDENSATE PIPING SHOWN CROSSHATCHED.
9. DISCONNECT AND REMOVE EXISTING LAVATORY. CAP EXISTING WASTE, VENT, WATER PIPING AND PATCH AND REPAIR WALL TO MATCH ADJACENT SURFACES PER ARCHITECTURAL DRAWINGS.
10. DISCONNECT AND REMOVE EXISTING DRINKING FOUNTAIN. PREPARE EXISTING WASTE AND WATER PIPING FOR NEW DRINKING FOUNTAIN.



PLUMBING DEMOLITION FLOOR PLAN - KITCHEN

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



PLUMBING DEMOLITION FLOOR PLAN - STAFF RESTROOM

SCALE: 1/4"=1'-0" (2)

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PLUMBING DEMO
FLOOR PLAN

P1.1

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NEW WORK NOTES

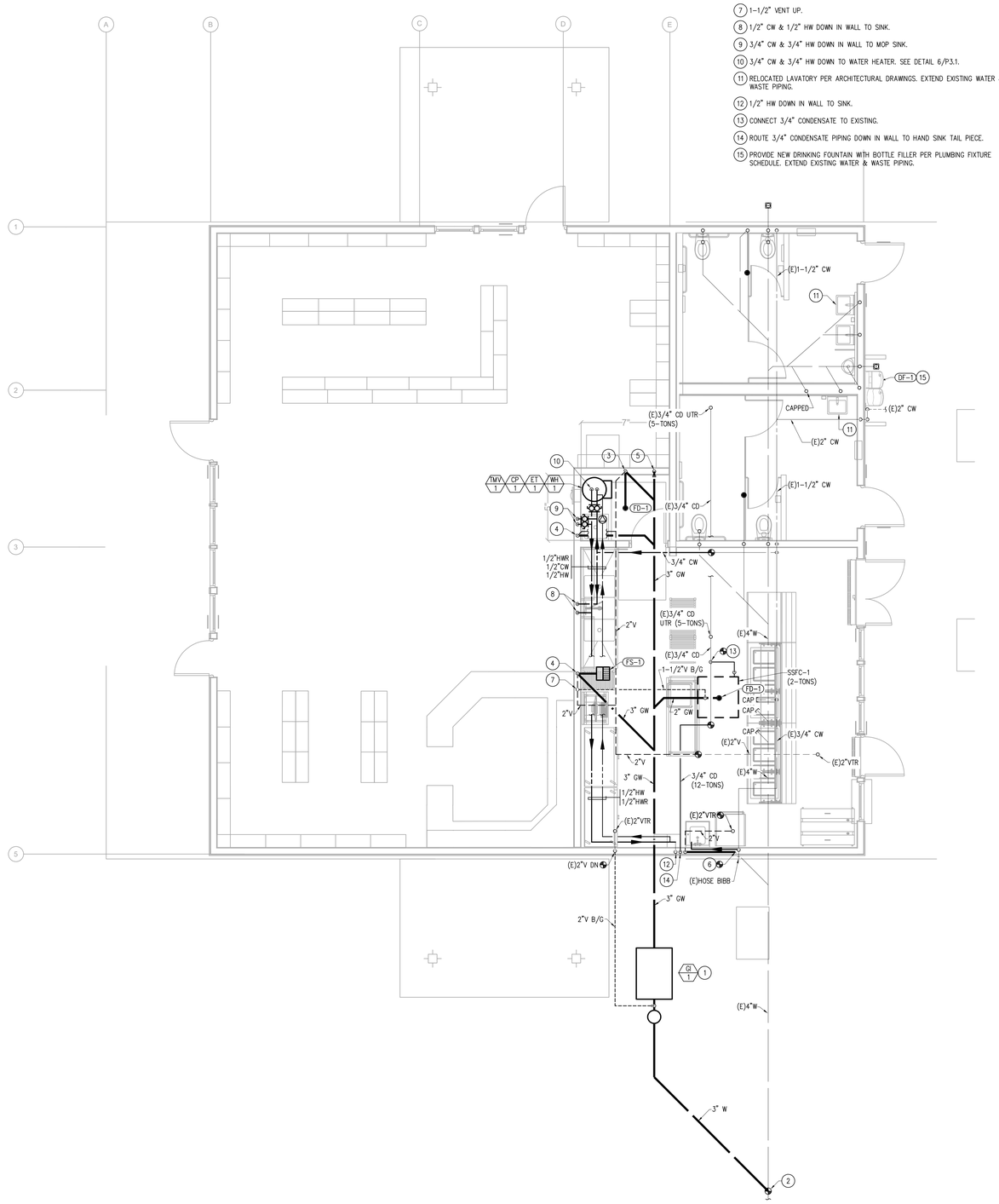
1. NEW GREASE INTERCEPTOR WITH SAMPLE PORT.
2. CONNECT 3" GW TO EXISTING 4" WASTE PIPING BELOW GRADE.
3. 2" GREASE WASTE DOWN, 1-1/2" VENT UP.
4. 3" GREASE WASTE DOWN, 2" VENT UP.
5. 3" GREASE WASTE UP WITH WALL CLEAN-OUT.
6. EXTEND EXISTING 1/2" CW PIPING & 2" WASTE PIPING IN WALL TO HAND SINK.
7. 1-1/2" VENT UP.
8. 1/2" CW & 1/2" HW DOWN IN WALL TO SINK.
9. 3/4" CW & 3/4" HW DOWN IN WALL TO MOP SINK.
10. 3/4" CW & 3/4" HW DOWN TO WATER HEATER. SEE DETAIL 6/P3.1.
11. RELOCATED LAVATORY PER ARCHITECTURAL DRAWINGS. EXTEND EXISTING WATER & WASTE PIPING.
12. 1/2" HW DOWN IN WALL TO SINK.
13. CONNECT 3/4" CONDENSATE TO EXISTING.
14. ROUTE 3/4" CONDENSATE PIPING DOWN IN WALL TO HAND SINK TAIL PIECE.
15. PROVIDE NEW DRINKING FOUNTAIN WITH BOTTLE FILLER PER PLUMBING FIXTURE SCHEDULE. EXTEND EXISTING WATER & WASTE PIPING.

PLUMBING NEW WORK FLOOR PLAN - STAFF RESTROOM

N

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

2



PLUMBING NEW WORK FLOOR PLAN - KITCHEN

N

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

1

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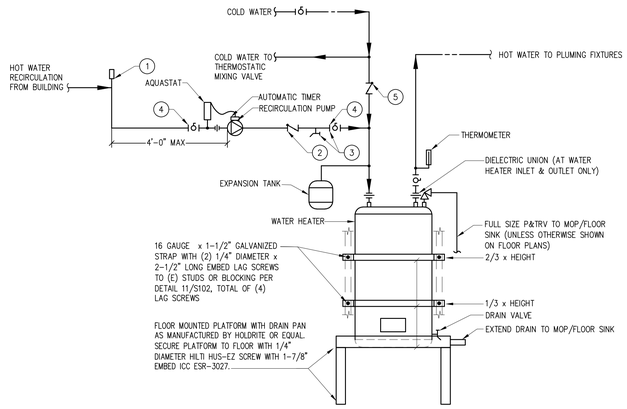
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SHEET TITLE

PLUMBING
NEW WORK
FLOOR PLAN

P2.1

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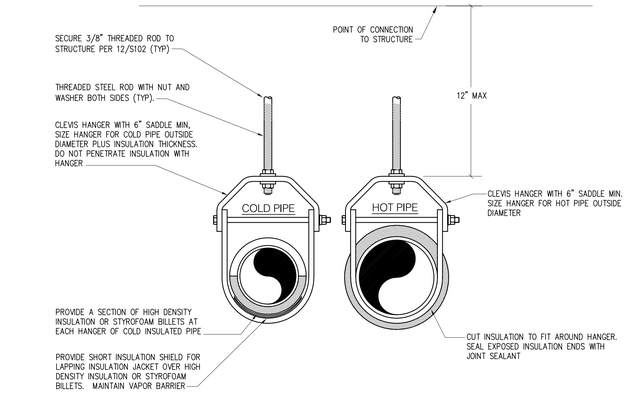


NOTES

1. AIR RELEASE VALVE INSTALLED WITHIN 4' OF THE RECIRCULATION PUMP ON MINIMUM 12" VERTICAL RISER PER CEC SECTION 110.3(c)4A. ALTERNATIVELY, INSTALL PUMP IN VERTICAL.
2. CHECK VALVE BETWEEN RECIRCULATION PUMP AND WATER HEATER PER CEC SECTION 110.3(c)4B.
3. HOSE BIBB AND ISOLATION VALVE BETWEEN PUMP AND WATER HEATER PER CEC SECTION 110.3(c)4C.
4. ISOLATION VALVE ON EACH SIDE OF RECIRCULATION PUMP PER CEC SECTION 110.3(c)4D.
5. CHECK VALVE ON COLD WATER SUPPLY PER CEC SECTION 110.3(c)4F.

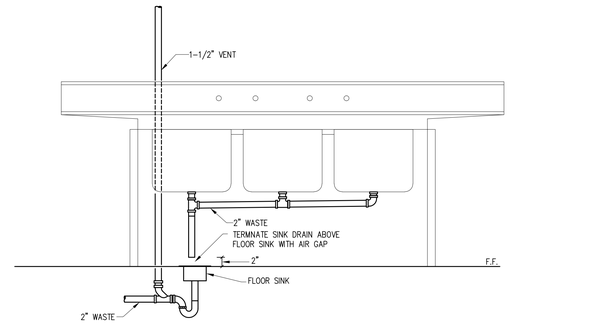
WATER HEATER (ELECTRIC TANK TYPE)

SCALE: NONE 6



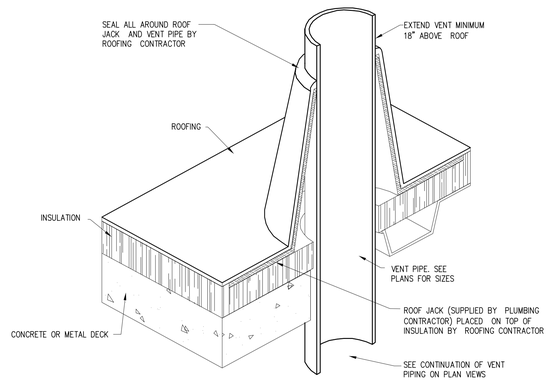
PIPE HANGING DETAIL

SCALE: NONE 4



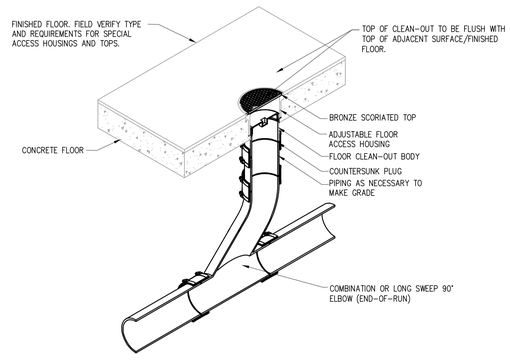
3-COMPARTMENT SINK (FOOD HANDLING)

SCALE: NONE 1



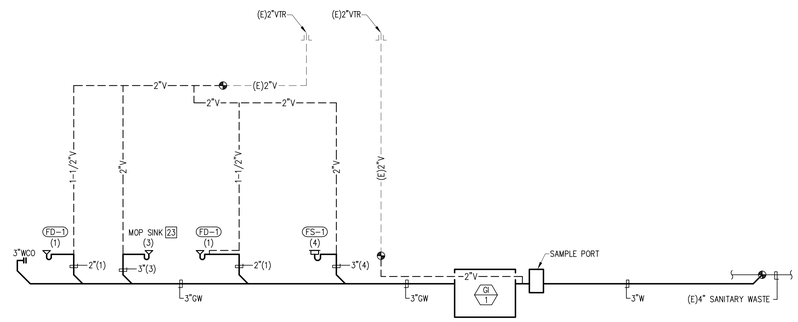
VENT THROUGH ROOF

SCALE: NONE 5



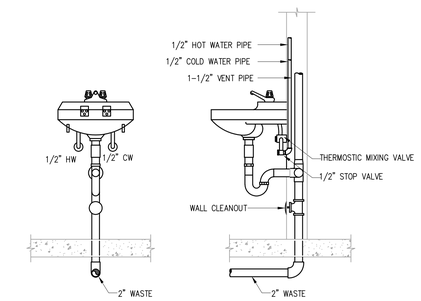
FLOOR CLEANOUT

SCALE: NONE 2



PLUMBING WASTE & VENT DIAGRAM - KITCHEN

SCALE: NONE 7



HAND SINK

SCALE: NONE 3

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PLUMBING DETAILS

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HEALTH DEPARTMENT NOTES

THE FOLLOWING ARE THE MINIMUM STANDARDS FOR COMPLIANCE WITH HEALTH DEPARTMENT REQUIREMENTS. THE G.C. AND KEC CONTRACTOR SHALL COMPLY WITH THESE MINIMUM STANDARDS, DRAWINGS AND SPECIFICATIONS.

1. A CONCRETE SLAB IS PROVIDED FOR TRASH, GARBAGE, AND GREASE CONTAINER. IF WALLS ENCLOSE THIS AREA, THE INTERIOR WALL SURFACE WILL BE SMOOTH, SEALED AND WASHABLE (e.i.,PLASTERED SMOOTH AND PAINTED, ETC.)
2. ALL FOOD-RELATED AND UTENSIL-RELATED EQUIPMENT SHALL MEET OR BE EQUIVALENT TO SANITATION STANDARDS ESTABLISHED BY AN AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) ACCREDITED PROGRAM.
3. ALL FLOOR MOUNTED EQUIPMENT WILL BE INSTALLED ON MINIMUM 6" SANITARY LEGS, CASTERS OR COMPLETELY SEALED IN POSITION ON A 4" HIGH CURB WITH CONTINUOUSLY COVED BASE. COUNTERTOP EQUIPMENT WILL BE ON 4" SANITARY LEGS OR SEALED TO THE COUNTER UNLESS READILY MOVABLE.
4. FOR ALL SELF-SERVICE SODA, ICE AND OTHER DISPENSERS WHERE REFILLS ARE PROVIDED THEY MUST BE PUSH BUTTON TYPES, OR LEVER TYPES WHERE THE LEVER CONTACTS THE CONTAINER AT LEAST ONE INCH BELOW THE RIM.
5. ANY OPERABLE WINDOWS, VENT OPENING, OR OTHER SIMILAR OPENINGS MUST BE PROVIDED WITH TIGHT FITTING SCREENS OF MINIMUM 16 MESH TO THE INCH. WINDOWS SHALL BE FIXED AT FOOD PREP, UTENSIL-WASHING, OPEN FOOD AND UTENSIL STORAGE AREAS.
6. ALL EXTERIOR DOORS SHALL OPEN OUTWARD, BE SELF-CLOSING AND TIGHT FITTING.
7. BI-FOLD, FRENCH, ACCORDION STYLE AND ROLL-UP DOORS CANNOT OPEN INTO THE FOOD PREP, UTENSIL WASHING OR UNPACKAGED FOOD SERVICE AREAS.
8. TOILET ROOM AND DRESSING ROOM DOORS MUST BE SELF-CLOSING AND TIGHT FITTING.
9. DELIVERY DOORS SHALL HAVE AIR CURTAIN FANS THAT SPAN THE WIDTH OVER THE DOOR. THE FAN MUST ACTIVATE VIA A MICROSWITCH PROVIDING A MINIMUM VELOCITY OF 1600 FPM MEASURED 3 FEET ABOVE THE GROUND.
10. A MINIMUM OF 10 FOOT-CANDLES OF LIGHT MEASURED 30" OFF FLOOR SHALL BE PROVIDED IN WALK-IN REFRIGERATED STORAGE AND DRY STORAGE AREAS.
11. A MINIMUM OF 20-FOOT CANDLES OF LIGHT SHALL BE PROVIDED WHERE FOOD, FRESH PRODUCE OR PRE-PACKAGED ITEMS ARE PROVIDED FOR CONSUMER SELF-SERVICE AND SOLD OR OFFERED FOR CONSUMPTION INSIDE EQUIPMENT, IN AREAS USED FOR HAND WASHING, WAREWASHING, UTENSIL STORAGE, AND TOILET ROOMS.
12. A MINIMUM OF 50 FOOT-CANDLES OF LIGHT MEASURED 30" OFF FLOOR SHALL BE PROVIDED WHEN WORKING WITH FOOD, UTENSILS, EQUIPMENT SUCH AS KNIVES, SLICERS, GRINDERS, AREAS WHERE EMPLOYEE SAFETY IS A FACTOR AND IN ALL AREAS DURING PERIODS OF CLEANING.
13. SHATTER SHIELDS SHALL BE PROVIDED FOR ALL LIGHTS ABOVE FOOD PREPARATION, WORK, AND STORAGE AREAS.
14. ALL WAREWASHING SINKS TO HAVE 3 COMPARTMENTS THAT ARE A MINIMUM SIZE OF AT LEAST 18"X18"X12" DEEP (OR 16"X20"X12" DEEP) WITH A MINIMUM 18" DRAINBOARD AT EACH END. IF AGAINST A WALL, IT MUST HAVE AN 8" INTEGRAL BACKSPLASH. HOWEVER, IT MUST BE CAPABLE OF ACCOMMODATING THE LARGEST UTENSIL TO BE WASHED. A WAREWASHING MACHINE DOES NOT SUBSTITUTE FOR SINK REQUIREMENT. 3 OR 4 COMPARTMENT BAR SINKS TO BE AT LEAST 12"X12"X10" DEEP (OR 10"X14"X10" DEEP) WITH A MINIMUM 18" DRAINBOARD AT EACH END.
15. ALL SINKS SHALL HAVE SPOUT(S) CAPABLE OF REACHING EACH COMPARTMENT.
16. FOOD PREP SINK COMPARTMENT(S) TO BE AT LEAST 18"X18"X12" DEEP (OR 16"X20"X12" DEEP) WITH A MINIMUM 18" DRAINBOARD. SEPARATE FOOD PREP SINKS SHALL BE PROVIDED FOR MEATS AND PRODUCE.
17. A SEPARATE WET WASTE DUMP FIXTURE SHALL BE PROVIDED FOR DISPOSAL OF DRINK OR ICE WASTE.
18. EACH HAND WASHING SINK MUST HAVE PERMANENTLY MOUNTED SINGLE-SERVICE SOAP AND PAPER TOWEL DISPENSERS.
19. THE HOT WATER HEATER WILL BE A COMMERCIAL TYPE CAPABLE OF CONSTANTLY SUPPLYING HOT WATER AT A TEMPERATURE OF 120° F TO ALL SINKS. IN SIZING THE WATER HEATER, THE PEAK HOURLY DEMAND FOR ALL SINKS, ETC., ARE ADDED TOGETHER TO DETERMINE THE MINIMUM REQUIRED RECOVERY RATE.
20. ALL LAVATORIES OR HAND SINKS WILL HAVE A COMBINATION FAUCET OR PREMIXING FAUCET CAPABLE OF SUPPLYING WATER TEMPERED TO 100°-108°F. SELF-CLOSING OR METERED FAUCET TO PROVIDE AT LEAST 15 SECONDS OF WATER WITHOUT REACTIVATION.
21. ALL PLUMBING, ELECTRICAL AND GAS LINES SHALL BE CONCEALED WITHIN THE BUILDING STRUCTURE TO GREAT AN EXTENT AS POSSIBLE. ALL EXPOSED CONDUITS, PLUMBING, ETC. SHALL BE INSTALLED AT LEAST 6" OFF FLOOR AND 3/4" FROM WALLS USING STANDOFF BRACKETS.
22. CONDUITS, PLUMBING OR PIPING CANNOT BE INSTALLED ACROSS ANY AISLE WAY, TRAFFIC AREA OR DOOR OPENING.
23. MULTIPLE RUNS OR CLUSTERS OF CONDUIT OR PIPELINES SHALL BE FURRED IN OR ENCASED IN AN APPROVED SEALED ENCLOSURE.
24. ALL LIQUID WASTE SHALL BE DRAINED BE MEANS OF INDIRECT WASTE PIPES INTO A FLOOR SINK. FLOOR SINKS ARE TO BE INSTALLED FLUSH WITH THE FINISHED FLOOR SURFACE AND HAVE SUITABLE EASILY REMOVABLE SAFETY COVER GRATES.
25. FLOOR SINK TO BE 50% EXPOSED WHEN NO ACCESS IS PROVIDED FOR CLEANING OR BE IN LINE WITH THE FRONT FACE OF ELEVATED FREESTANDING EQUIPMENT.
26. APPROVED BACKFLOW PREVENTION DEVICES SHALL BE PROPERLY INSTALLED UPSTREAM OF ANY POTENTIAL HAZARD BETWEEN THE POTABLE WATER SUPPLY AND A SOURCE OF CONTAMINATION. HOSES SHALL NOT BE ATTACHED TO A FAUCET OR HOSE BIBB UNLESS AN APPROVED BACKFLOW PREVENTER IS PROVIDED.
27. WATER SUPPLY TO CARBONATORS SHALL BE PROTECTED BY AN APPROVED REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER. THE RELIEF VALVE SHALL DRAIN INDIRECTLY TO SEWER WITH A LEGAL AIR GAP.
28. FOR CLEANING FLOOR MATS, THE JANITORIAL SINK SHALL BE A MINIMUM 24" BY 36" FLOOR-MOUNTED TYPE. MOPS SHALL BE PLACED IN A POSITION THAT ALLOWS THEM TO AIR-DRY WITHOUT SOILING WALLS, EQUIPMENT, OR SUPPLIES.
29. THE JANITORIAL SINK FAUCET WILL HAVE A THREADED OUTER LIP FOR HOSE ATTACHMENT AND AN APPROVED BACKFLOW PREVENTION DEVICE. NO CHEMICAL DISPENSING SYSTEMS OR SHUTOFF VALVES TO BE ATTACHED TO MOP SINK FAUCET OUTLET UNLESS A "SIDEKICK" PLUMBING DEVICE IS INSTALLED).
30. NO CONDENSATE OR WASTEWATER INCLUDING HVAC WILL DRAIN INTO THE JANITORIAL SINK.
31. GREASE TRAP TO BE LOCATED OUTSIDE THE FOOD SERVICE ACTIVITY AREA, FLUSH WITH THE FINISHED FLOOR WHEN INDOORS. LOCAL WASTEWATER DISTRICT OR BUILDING DEPARTMENT TO BE CONTACTED FOR GREASE REMOVAL REQUIREMENTS.
32. FLOOR DRAINS SHALL BE INSTALLED IN FLOORS THAT ARE WATER-FLUSHED FOR CLEANING AND IN AREAS WHERE PRESSURE SPRAY METHODS FOR CLEANING EQUIPMENT ARE USED, IN RESTROOMS, JANITORIAL ROOMS, SCULLERIES, AND AT BARS WITH WAREWASHING. FLOOR SURFACES IN AREAS PURSUANT TO THIS SHALL BE SLOPED 1:50 TO THE FLOOR DRAINS.
33. ADEQUATE VENTILATION SHALL BE PROVIDED TO ALL TOILET ROOMS, JANITOR CLOSETS WITH MOP SINKS, INDOOR TRASH ROOMS AND IN DRESSING/ CHANGING ROOM(S).
34. THE FLOOR FINISH SHALL HAVE A SMOOTH SURFACE UNDER ALL EQUIPMENT AND WALKWAYS WILL HAVE A LIGHT TEXTURE ONLY.
35. THE PAINT USED ON WALLS AND CEILINGS OF ALL KITCHEN, FOOD PREPARATION, WORK, STORAGE AREAS SHALL BE GLOSS OR SEMI-GLOSS ENAMEL. FINISH MATERIAL SHALL BE LIGHT COLOR IN FOOD PREP AREAS FOR EASY CLEANING.
36. PRIOR TO INSTALLATION, SAMPLES OF FINISHES SHALL BE SUBMITTED TO ENVIRONMENTAL HEALTH FOR APPROVAL AS NEEDED.
37. COLD STORAGE ROOMS SHALL BE PROVIDED WITH A SECTION OF SHELVING INSTALLED TO HOLD SHALLOW COOL DOWN PANS - NOT TO EXCEED 4" IN HEIGHT. SPACE BETWEEN SHELVING TO BE AT LEAST 8" HIGH.
38. BACKUP DRY STORAGE SHELVING SHALL BE A MINIMUM OF 96 LINEAR FEET (MEASURED WITH TIERS) OR 25% OF KITCHEN, FOOD PREP, AND WORK AREAS, WHICHEVER IS GREATER. SHELVING SHALL BE AT LEAST 18 INCHES DEEP AND START A MINIMUM SIX INCHES OFF THE FLOOR SURFACE.
39. SHELVING OVER WET AREAS (SINKS, MOP SINKS ETC.) AND FOOD PREP SURFACES SHALL BE METAL.
40. ALL SEAMS, GAPS, OPENINGS SHALL BE PROPERLY SEALED PER CODE.
41. ALL EMPLOYEE RESTROOMS SHALL BE PROVIDED WITH SOAP & TOWEL DISPENSERS.

SEISMIC DETAILS NOTE

1. SEISMIC DETAILS, ENGINEERING, SUPPLY AND INSTALLATION ARE NOT INCLUDED BY FOOD SERVICE CONSULTANT OR KITCHEN EQUIPMENT SUPPLIER.

LEMON CREST
ELEMENTARY SCHOOL

CERTIFICATION STATEMENTS

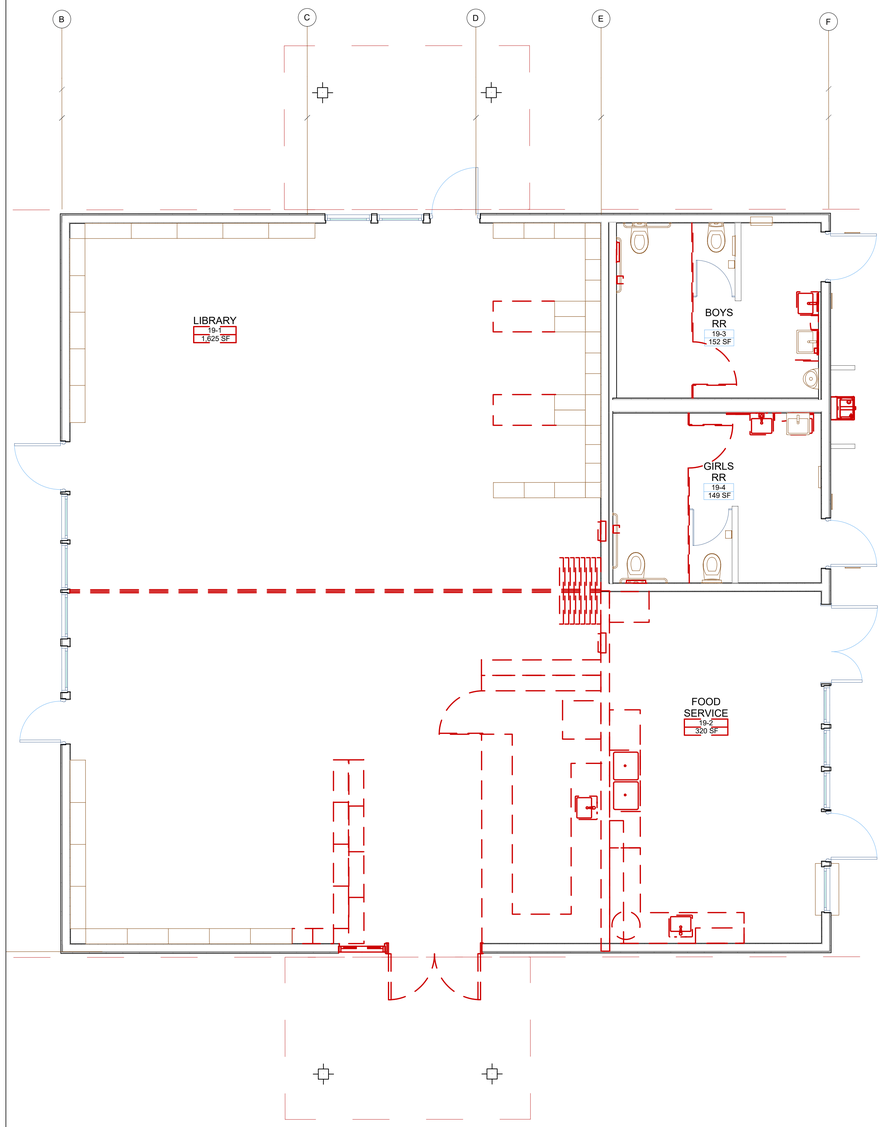
- I AM ACCOUNTABLE TO KNOW AND COMPLY WITH ALL GOVERNING POLICIES, REGULATIONS, ORDINANCES, MANUALS, STANDARDS, AND SUBMITTAL REQUIREMENTS APPLICABLE TO THE PROJECT.
- I HAVE PERFORMED REASONABLE RESEARCH TO DETERMINE AND UNDERSTAND THE PROPOSED PROJECT'S REQUIRED APPROVALS AND DECISION PROCESS.
- I HAVE REVIEWED THE REQUIREMENTS FOR PLAN SUBMITTAL AND CERTIFY THAT THIS SUBMITTAL PACKAGE MEETS ALL THE MINIMUM SUBMITTAL REQUIREMENTS FOR THE TYPE OF PROJECT.
- THE PLAN SUBMITTAL INCLUDES ALL PLANS AND DOCUMENTS AS PERTAINING TO THE SCOPE OF WORK.
- THE PROJECT DESCRIPTION IN THE PLAN SET IS CONSISTENT, COMPLETE, AND INCLUDES ALL PROPOSED WORK RELATED TO THE PROJECT.
- I UNDERSTAND THAT IF IT IS FOUND THAT THE SUBMITTAL IS INCOMPLETE, THE REVIEW MAY BE REJECTED OR DISAPPROVED, AND THE PROJECT WILL NOT RECEIVE A GUARANTEED REVIEW TIME.
- FOR DIGITAL PLAN SUBMISSIONS, I HAVE SUBMITTED ALL PLAN SHEETS ON ONE PDF FILE WHICH INCLUDES ALL THE NECESSARY AND REQUIRED INFORMATION.

12463 LEMON CREST DR.
LAKESIDE, CA 92040

ALL DRAWINGS IN THIS PLAN SET ARE DESIGNED AS A FOOD SERVICE DESIGN GROUP PROJECT AND ARE, IN ADDITION TO ALL SUBCONSULTANTS, INFORMATION, AND DOCUMENTS PREPARED BY THE ARCHITECT OF RECORD, THE INSTRUMENTS OF SERVICE PREPARED BY FOOD SERVICE DESIGN GROUP. FOOD SERVICE DESIGN GROUP IS RESPONSIBLE FOR THE ACCURACY OF ALL INFORMATION, ALL CALCULATIONS, CONTRACTORS, AND OTHERS ULTIMATELY USED, IT SHALL BE ASSUMED TO BE CORRECT AND ACCURATE UNLESS OTHERWISE NOTIFIED IN WRITING BY FOOD SERVICE DESIGN GROUP. ALL DRAWINGS, SPECIFICATIONS, AND OTHER DOCUMENTS PREPARED BY FOOD SERVICE DESIGN GROUP ARE THE PROPERTY OF FOOD SERVICE DESIGN GROUP AND SHALL NOT BE USED BY ANY PERSON OR ENTITY FOR ANY PROJECT OTHER THAN THE PROJECT FOR WHICH THEY WERE PREPARED, AND ANY REPRODUCTION OR USE OF THESE DRAWINGS, SPECIFICATIONS, AND OTHER DOCUMENTS PREPARED BY FOOD SERVICE DESIGN GROUP FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN PERMISSION OF FOOD SERVICE DESIGN GROUP IS PROHIBITED. ALL DRAWINGS, SPECIFICATIONS, AND OTHER DOCUMENTS PREPARED BY FOOD SERVICE DESIGN GROUP ARE COPYRIGHTED AND ALL RIGHTS ARE RESERVED. REFERENCE NAMES TO THE ARCHITECTURAL PARTS, SHALL BE A PART OF THESE PLANS, AND ARE GENERAL NOTES BEFORE CONSTRUCTION AND WORK RESOURCES. ANY UNDISCLOSED ACTIVITIES IN THESE PLANS AND TH

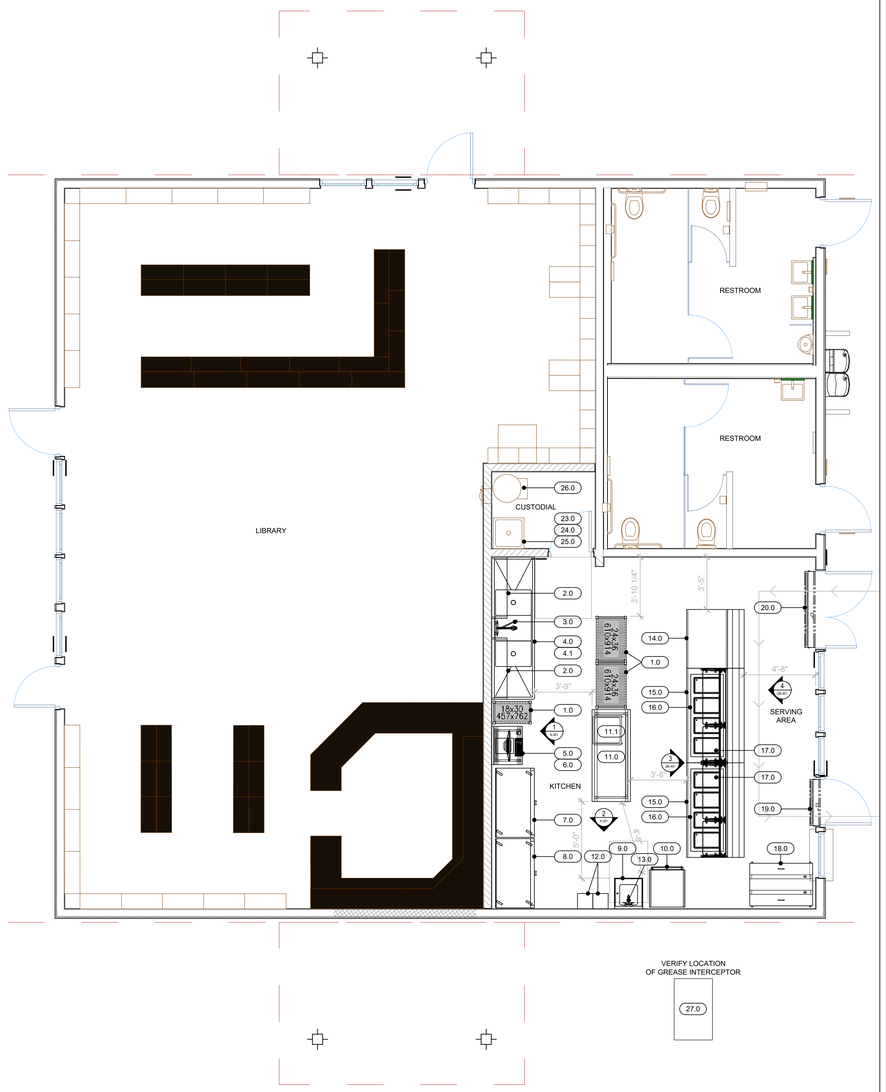
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DEMO FLOOR PLAN

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



FOODSERVICE EQUIPMENT FLOOR PLAN

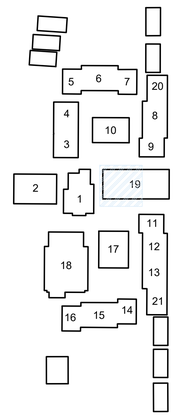
SCALE | 1/4" = 1'-0"

ACCESSIBLY NOTES:

1) SALES COUNTER IS ONLY TO BE USED BY THE KITCHEN STAFF AND NEVER TO BE USED BY STUDENTS, PARENTS, VISITORS, TEACHERS, ADMIN STAFF, OR ANY OTHER COMMON USER GROUPS.
2) ALL DIMENSIONS ARE TO FACE OF WALL/EQUIPMENT FINISH U.O.N.

FOOD SERVICE EQUIPMENT SCHEDULE

NO.	QTY	DESCRIPTION	MANUFACTURER	MODEL #	WEIGHT (LBS)	ANCHORAGE DETAIL	ELECTRICAL: V	PH	AMP	KW	HP	CONNECT: WIRED DIR	CONNECT: CORD/ PLUG	PLUMBING: SUPPLY P.O.C. HOT	SUPPLY P.O.C. COLD	WASTE: SIZE	WASTE: DIR	WASTE: INDIRECT FD	WASTE: INDIRECT FS	WASTE: INDIRECT TD	GAS: SIZE	GAS: MBH	REMARKS
1.0	LOT	DRY STORAGE SHELVING (PLASTIC, 84" POSTS, VENTED, 5 TIERS PER UNIT)	CAMBRO	CAMSHELVING																			
2.0	2	WALL SHELF (12"X48)	JOHN BOOS	BHS1248	16	D/K-501																	
3.0	1	PRE-RINSE W/ FAUCET	T&S BRASS	B-0133-01	15									1/2"	1/2"								
4.0	1	3 COMPARTMENT SINK (W/ 20"X28"X14"D COMPARTMENTS, 24" DUAL DRAINBOARDS)	JOHN BOOS	3PB2028-2D24	190	B/K-501										1-1/2"			X				
4.1	3	WASTE DRAIN VALVE (NOT SHOWN ON PLANS)	T&S BRASS	B-3950	5																		
5.0	1	WORK TABLE (30"X24"X34"H, W/ OPEN BASE, 5" BACKSPLASH)	JOHN BOOS	ST6R5-2430GBK	44																		
6.0	1	COMPUTER	BY OWNER				120	1	5.0	0.60			5-15P										
7.0	1	REACH-IN REFRIGERATOR (2-DOOR, GLASS DOORS, SELF CONTAINED)	TRUE	T-49G-HC~FGD01	465	H/K-501	120	1	5.4	0.65	1/2		5-15P										
8.0	1	REACH-IN FREEZER (2-DOOR, GLASS DOORS, SELF CONTAINED)	TRUE	T-49FG-HC~FGD01	605	H/K-501	120	1	11.0	1.32	1/2		5-20P										
9.0	1	ADA HAND SINK (W/ MIN 6" SPLASH GUARDS, BUILT-IN SOAP AND TOWEL DISPENSER)	JOHN BOOS	PBHS-ADA-P-STD-SSLR	43											1-1/2"	X						
10.0	1	HEATED HOLDING CABINET	METRO	C539-CFC-U-BU	262		120	1	16.0	2.00			5-20P										
11.0	1	WORK TABLE (60"X30"X34"H, W/ OPEN BASE, NO BACKSPLASH)	JOHN BOOS	ST6R5-3060GBK	72																		
11.1	1	UTENSIL DRAWER	JOHN BOOS	DR2020SCL-S30	26																		
12.0	2	EMPLOYEE LOCKERS (TWO TIER) (ADA COMPLIANT)	SALSBURY	62162		I/K-501																	
13.0	1	SPLASH MOUNTED FAUCET FOR ITEM 9.0	T&S BRASS	B-1115										1/2"	1/2"								
14.0	1	UTILITY COUNTER W/ TRAY SLIDE ON FRONT (MOBILE)	DUKE	TST-46PG	314	A/K-501																	
15.0	2	UTILITY COUNTER W/ TRAY SLIDE ON FRONT (MOBILE)	DUKE	TST-74PG	446	A/K-501																	
16.0	2	DROP-IN HOT/COLD/FREEZE WELLS (SELF CONTAINED, DRY TYPE, SEALED WELLS)	DUKE	HCF-4	287		120	1	21.0	2.52			L5-30P										
17.0	2	FULL SERVICE / SELF SERVICE TWO-TIER SNEEZE GUARD	DUKE	TS580-74-1SN	98																		
18.0	1	MILK COOLER (SELF CONTAINED, MOBILE)	TRUE	TMC-49-DS-HC	395		120	1	2.7	0.32	1/5		5-15P										
19.0	1	AIR CURTAIN	BERNER	SLC07-1036A	35		120	1	3.4	0.41		X											
20.0	1	AIR CURTAIN	BERNER	SLC07-1072A	56		120	1	3.4	0.41		X											
21.0		SPARE NUMBER																					
22.0		SPARE NUMBER																					
23.0	1	MOP SINK (24"X24", NON-POROUS, FLOOR MOUNTED)	ZURN	Z1996-24												3"	X						PROVIDED BY PLUMBING CONTRACTOR
24.0	1	SERVICE FAUCET	T&S BRASS	B-0655-BSTP										1/2"	1/2"								W/ ATMOSPHERIC VACUUM BREAKER, PROVIDED BY PLUMBING CONTRACTOR
25.0	1	JANITORIAL SHELF W/ MOP AND BROOM HOLDER	JOHN BOOS	PB-MSS824																			
26.0	1	WATER HEATER					REFER TO ELECTRICAL ENGINEER PLANS							REFER TO PLUMBING ENGINEER PLANS									PROVIDED BY PLUMBING CONTRACTOR
27.0	1	GREASE INTERCEPTOR	BY OTHERS																				PROVIDED BY PLUMBING CONTRACTOR



IDENTIFICATION STAMP
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APP: 04-124851 INC:
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SS ☑ FLS ☑ ACS ☑

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INNOVATIVE FOOD SERVICE DESIGN

LAKESIDE UNION SCHOOL DISTRICT

KITCHEN EXPANSION

LEMON CREST ELEMENTARY SCHOOL

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LAKESIDE, CA 92040

LAKESIDE UNION SCHOOL DISTRICT
12335 WOODSIDE AVE LAKESIDE CA 92040

REVISIONS

MARK	DATE	DESCRIPTION
	4/14/2026	DSA V3 SUBMITTAL

PROJECT NO: #PIn

MODEL FILE:
25-0 LUSD Lemon Crest Kitchen Expansion.pln

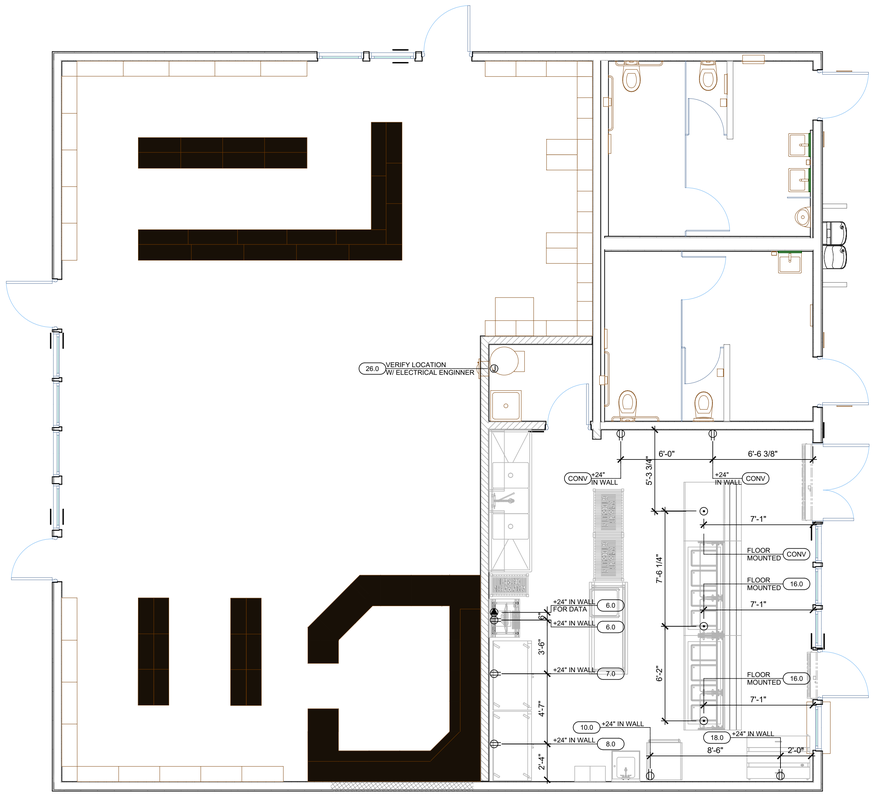
PLOT DATE:
4/9/2026

SHEET TITLE

FOODSERVICE EQUIPMENT FLOOR PLAN AND SCHEDULE

K-101

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FOODSERVICE EQUIPMENT ELECTRICAL ROUGH-INS

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

GENERAL ELECTRICAL NOTES

A. ALL ELECTRICAL ROUGH-INS SHOWN ON THIS PLAN ARE FOR FIXTURES AND EQUIPMENT SPECIFIED AS FURNISHED BY THE KITCHEN EQUIPMENT CONTRACTOR, UNLESS OTHERWISE NOTED. FOR ANY ADDITIONAL CONVENIENCE OUTLETS AND POWER NEEDED FOR NON FOOD SERVICE EQUIPMENT REFER TO ALL OTHER ELECTRICAL DRAWINGS & REQUIREMENTS.

B. ELECTRICAL CONTRACTOR MUST VERIFY EQUIPMENT BEING USED SO THAT THE SERVICE REQUIREMENTS ARE ADEQUATELY SIZED AND ROUGHED-IN PROPERLY (LOCATION & HEIGHT) SO AS TO MINIMIZE THE AMOUNT OF MATERIALS & FITTINGS NEEDED FOR FINAL HOOKUP RESULTING IN A NEAT AND ORDERLY LOOKING JOB. ALL DIMENSIONS FOR ITEMS RUNNING UNDER SLAB ARE FROM CENTER LINE OF COLUMN, OR OUTSIDE EDGE OF SLAB, TO CENTER OF ROUGH-IN'S. ALL OTHER DIMENSIONS ARE FROM FACE STUD.

C. ALL OUTLETS & J-BOXES ARE TO BE SET HORIZONTALLY, MOUNTED FLUSH UNLESS NOTED OTHERWISE. ALL 120V OUTLETS NOT DESIGNATED WITH SPECIFIC LOADS, TO BE RATED AT 15 AMPS WITH MINIMUM LOOPING.

D. ALL SERVICES SHOWN WITH SYMBOLS CENTERED ON FACE OF WALL SHOULD BE BROUGHT TO THAT POINT CONCEALED IN WALL AND STUBBED OUT OF WALL CENTERED AT HEIGHT SHOWN. DO NOT STUB OUT OF FLOOR AND RUN EXPOSED UP FACE OF WALL.

E. ELECTRICAL CONTRACTOR SHALL BRANCH TO CONNECTIONS WHERE REQUIRED AND CONNECT ALL ELECTRICAL EQUIPMENT, FIXTURES, INCLUDING INTERNAL WIRING REQUIRED IN FIXTURES AND APPLIANCES AS REQUIRED BY CODE, SPECIFICATIONS AND/OR DRAWINGS.

F. ALL LABOR, SWITCHES, STARTERS, DISCONNECTS & FITTINGS REQUIRED FOR FOR FINAL CONNECTION OF EQUIPMENT AS NECESSARY TO COMPLY WITH ALL CODES, INCLUDING ALL INTER WIRING TO BE FURNISHED BY ELECTRICAL CONTRACTOR UNLESS SPECIFIED OTHERWISE IN FOOD SERVICE EQUIPMENT CONTRACT.

G. ALL ELECTRICAL OUTLET COVER PLATES ARE TO BE STAINLESS STEEL. THOSE REQUIRED IN BUILDING STRUCTURE ARE TO BE FURNISHED BY THE ELECTRICAL CONTRACTOR WITH RECEPTACLE. ALL MAIN BREAKER PANELS AND DISCONNECT SWITCHES REQUIRED BY OTHER ELECTRICAL DRAWINGS ARE TO BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR AT TIME OF INSTALLATION.

H. ELECTRICAL CONTRACTOR TO PROVIDE TIE-IN WIRING BETWEEN FIRE PROTECTION SYSTEM BOTTLE CONTROL HEAD, MICRO-SWITCH AND COOKING EQUIPMENT TO COMPLY WITH APPLICABLE LOCAL CODE REQUIREMENTS FOR EMERGENCY SHUTDOWN OF ENTIRE COOKLINE EQUIPMENT AND ELECTRICAL POWER. SHUNT TRIP CIRCUITRY MAY BE REQUIRED, REFER TO ALL OTHER ELECTRICAL DRAWINGS & REQUIREMENTS.

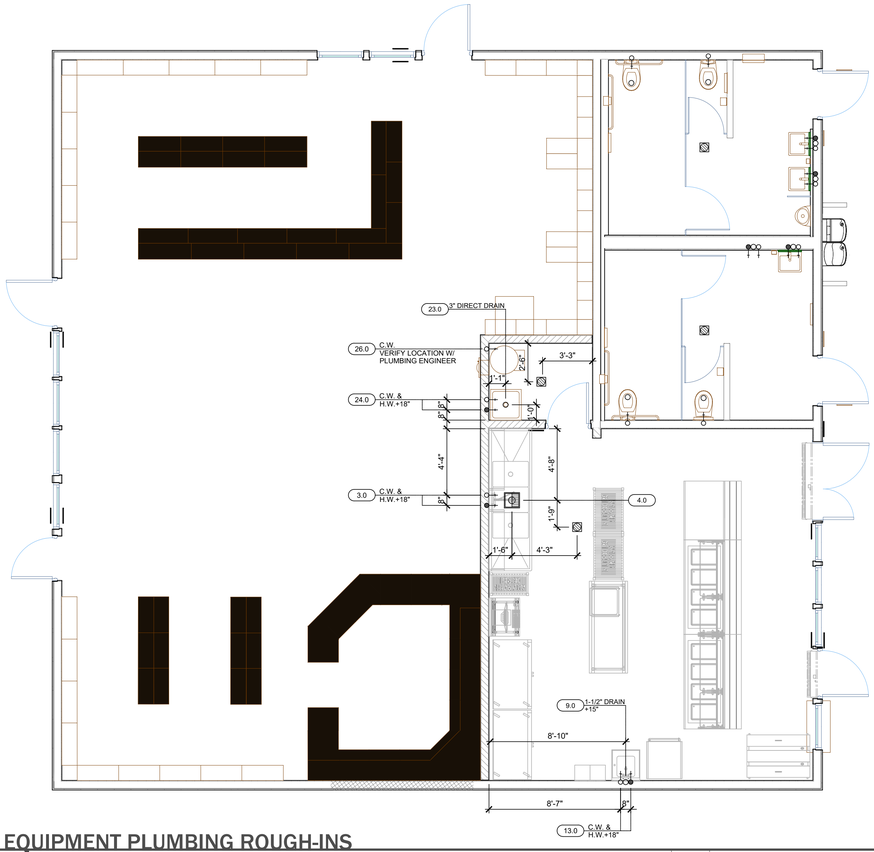
I. ALL THREE (3) PHASE POWER CONNECTIONS TO BE ON A FOUR (4) WIRE SYSTEM. ALL SINGLE (1) PHASE POWER CONNECTIONS TO BE ON A THREE (3) WIRE SYSTEM UNLESS NOTED OTHERWISE.

J. ELECTRICAL CONTRACTOR SHALL RUN CONTROL WIRING BETWEEN WALK-IN COOLERS/ FREEZERS CONDENSER & EVAPORATOR, PULL WIRES FROM WALK-INS EVAPORATOR TO PANEL, SET ONE DISCONNECT PER EACH CONDENSING UNIT, INSTALL AND WIRE EXTRA LIGHTS IN WALK-IN COOLERS AND FREEZERS AS REQUIRED THRU DOOR SWITCH, WIRE HEAT STRIP TO SAME CIRCUIT AS WALK-IN LIGHTS AND PROVIDE WRAP AROUND HEATER CABLE ON ALL EVAPORATOR DRAIN LINES.

K. ELECTRICAL CONTRACTOR TO INSTALL HOOD LIGHTING, INTERCONNECT LIGHTS WHEN MORE THAN ONE LIGHT IS PROVIDED AND MAKE FINAL ELECTRICAL CONNECTIONS PER CODE.

ELECTRICAL LEGEND

	DUPLEX OUTLET
J	J-BOX (JUNCTION BOX)
	DATA
	FLOOR RECEPTACLE
	REMOTE SWITCH
+12"	A.F.F. - ABOVE FINISHED FLOOR TO CENTER OF ROUGH-IN
E.C.	ELECTRICAL CONTRACTOR
CONV	CONVENIENCE OUTLET
	5 MIN. AIR EXCHANGE FAN, 12 EXCHANGES / HOUR VENTILATION IN ROOM IS LIGHT SWITCH ACTIVATED



FOODSERVICE EQUIPMENT PLUMBING ROUGH-INS

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

GENERAL PLUMBING NOTES

A. PLUMBING CONTRACTOR MUST VERIFY EQUIPMENT BEING USED SO THAT THE SERVICE REQUIREMENTS ARE ADEQUATELY SIZED AND ROUGHED-IN PROPERLY (LOCATION & HEIGHT), SO AS TO MINIMIZE THE AMOUNT OF MATERIALS AND FITTINGS NEEDED FOR FINAL HOOKUP RESULTING IN A NEAT & ORDERLY LOOKING JOB. ALL DIMENSIONS FOR ITEM'S RUNNING UNDER SLAB ARE FROM CENTER LINE OF COLUMN TO CENTER OF ROUGH-IN'S. ALL OTHER DIMENSIONS ARE FROM FACE OF STUD.

B. ALL PLUMBING ROUGH-INS AND REQUIREMENTS SHOWN ON THIS SHEET ARE FOR FIXTURES AND EQUIPMENT FURNISHED BY THE KITCHEN EQUIPMENT SUPPLIER, UNLESS OTHERWISE NOTED. FOR ANY ADDITIONAL BUILDING PLUMBING REQUIREMENTS REFER TO ALL OTHER PLUMBING SHEETS.

C. PLUMBING SHALL NOT INTERFERE WITH OPERATION OR FUNCTION OF EQUIPMENT. SECURE TO EQUIPMENT, WALLS OR FLOOR AS REQUIRED BY CODE. ALL ROUGH-INS SHOWN ARE TO BE RUN INSIDE WALLS, (EXCEPT STUB-UPS). LOCATIONS INDICATE POINT OF EXIT FROM WALLS, CEILING OR FLOOR. ALL FLOOR & WALL PENETRATIONS MUST BE SEALED WATER TIGHT AND VERMIN PROOF.

D. ALL SERVICES SHOWN WITH SYMBOLS CENTERED ON FACE OF STUD WALL SHOULD BROUGHT TO THAT POINT CONCEALED IN WALL AND STUBBED OUT OF WALL CENTERED AT HEIGHT SHOWN . DO NOT STUB OUT OF FLOOR AND RUN EXPOSED UP FACE OF WALL.

E. PLUMBING CONTRACTOR SHALL RUN CONDENSATE LINES FROM UNITS TO DRAINS AS SHOWN, THIS LINE SHALL BE NO SMALLER THAN THE STUB OUT OF THE FIXTURE. CONDENSATE DRAIN LINES ARE TO BE INSULATED THEIR ENTIRE LENGTH. FOR SPECIFIC TYPE OF CONNECTION AND LOCATIONS REFER TO THE KITCHEN EQUIPMENT BROCHURES AND DRAWINGS.

F. ALL LABOR, VALVES, TRAPS, TAILPIECES, STRAINERS, WATER LINES, GAS LINES, CUT OFFS, TRAPS, HYDROSTATIC SHOCK ELIMINATORS, INDIVIDUAL SHUT OFF-VALVES, PRESSURE - REDUCING VALVES & FITTINGS REQUIRED FOR FINAL CONNECTIONS OF EQUIPMENT AS NECESSARY TO COMPLY WITH ALL CODES, INCLUDING ALL INTERCONNECTIONS, SHALL BE FURNISHED & INSTALLED BY PLUMBING CONTRACTOR UNLESS STATED OTHERWISE IN FOOD SERVICE EQUIPMENT CONTRACT OR GENERAL SPECIFICATIONS.

G. ALL GAS LINES TO BE PAINTED BLACK.

H. ALL FLOOR DRAINS ARE TO BE SET 1/2" BELOW FINISHED FLOOR UNLESS OTHERWISE NOTED. DO NOT SLOPE FLOORS SO CLOSE TO DRAINS AS TO CREATE "PITS" OR "DIPS" IN FLOOR. MINIMUM RADIUS OF SLOPE TO BE 24" FROM CENTERLINE OF DRAIN.

I. ALL FLOOR SINKS SHOWN ARE TO BE SET FLUSH WITH FINISHED FLOOR, TRAPPED WITH LEGAL AIR GAP.

J. IF ELECTROLYSIS CONDITIONS EXIST, A DIELECTRIC COUPLING SHOULD BE USED IN FINAL PLUMBING CONNECTION TO ALL WATER COOLED EQUIPMENT.

K. KITCHEN EQUIPMENT SUPPLIER TO PROVIDE ALL FAUCETS, DRAIN OUTLET FITTINGS IN FIXTURES AND SPECIALITY ITEMS AS OUTLINED IN THE ITEM AND GENERAL PRODUCT SPECIFICATIONS.

L. ALL WORK RELATING TO THE INSTALLATION & HOOKUP OF THE SPECIFIED EQUIPMENT IS TO BE PERFORMED IN FULL ACCORDANCE WITH ALL AUTHORITY HAVING JURISDICTION.

M. WALL PENETRATIONS FOR DRAIN LINES REQUIRE ESCUTCHEON PLATES.

N. ALL SERVICES SHOWN WITH SYMBOLS AWAY FROM ANY WALL OR COLUMN SHOULD BE STUBBED OUT OF FLOOR OR CEILING TO MAXIMUM OVERALL HEIGHT AS SHOWN.

O. PLUMBING CONTRACTOR SHALL PROVIDE & INSTALL ALL ROUGH-INS, FINAL CONNECTIONS FOR KITCHEN EQUIPMENT FURNISHED BY OTHERS OR THE CONTRACTOR.

P. PLUMBING CONTRACTOR TO PROVIDE & INSTALL ALL NECESSARY BACKFLOW PREVENTION DEVICES.

PLUMBING LEGEND

	DIRECT WASTE
	FLOOR DRAIN (FD)
	12" X 12" FLOOR SINK (FS)
	COLD WATER (C.W.)
	HOT WATER (H.W.)
	GAS LINE
	INDIRECT DRAIN LINE AS REQUIRED
+12"	A.F.F. - ABOVE FINISHED FLOOR TO CENTER OF ROUGH-IN
P.C.	PLUMBING CONTRACTOR

WATER HEATER CALCULATIONS

PER HEALTH DEPARTMENT

1	MOP SINK	15 GPH
1	3-COMP. POT SINK	42 GPH
1	HAND SINK	5 GPH
4	LAVATORY SINK	20 GPH
	TOTAL	85 GPH

$$\frac{85 \times 60 \times 8.33}{.98 \times 3412} = 12.7 \text{ KW}$$

WATER HEATER SPECIFICATION

MANUFACTURE: A.O. SMITH
MODEL: DRE-52-15
TANK SIZE: 50 GAL
KW INPUT: 15
RISE @ 60°F: 102 GPH

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-124851 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑

ALPHASTUDIO DESIGN GROUP

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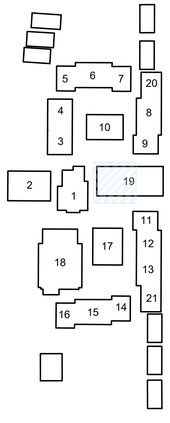
ARCHITECT OF RECORD

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LAKESIDE
UNION SCHOOL DISTRICT



KITCHEN EXPANSION

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LAKESIDE UNION SCHOOL DISTRICT
12335 WOODSIDE AVE LAKESIDE CA 92040

REVISIONS

MARK	DATE	DESCRIPTION
	4/14/2026	DSA V3 SUBMITTAL

PROJECT NO: #PIn

MODEL FILE:
25-0 LUSD Lemon Crest Kitchen Expansion.pln

PLOT DATE:
4/9/2026

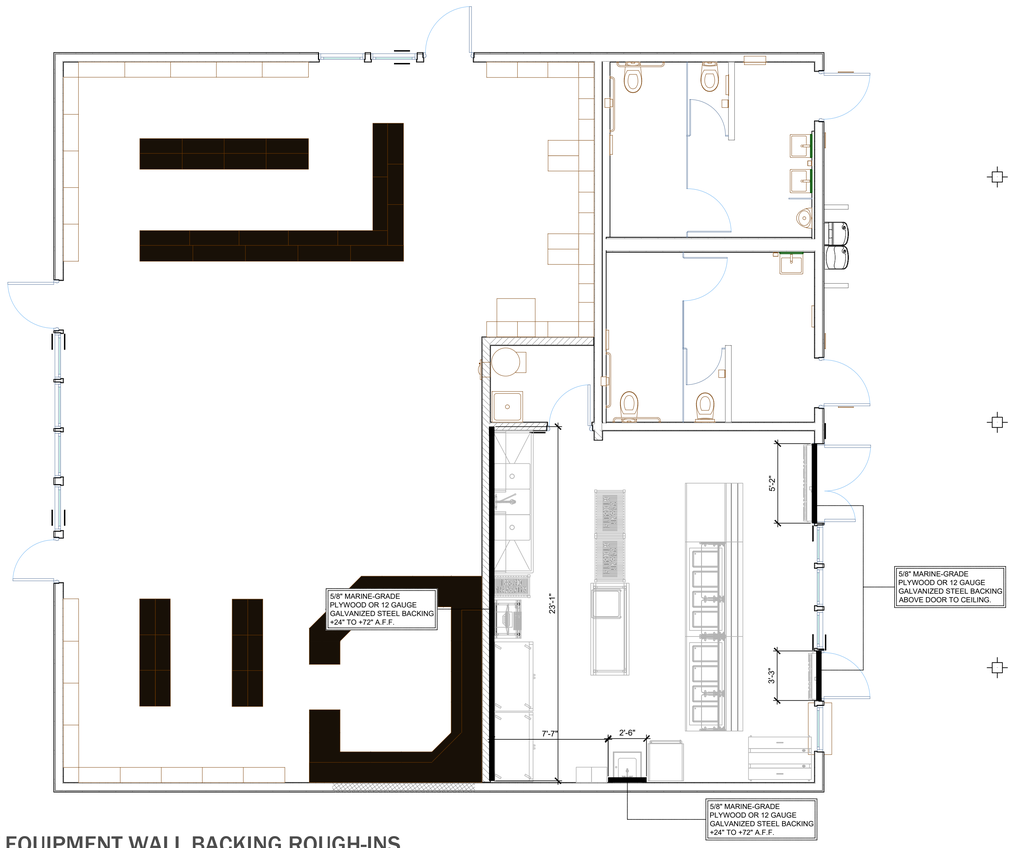
SHEET TITLE

FOODSERVICE EQUIPMENT ELECTRICAL AND PLUMBING ROUGH-INS

K-201

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FOODSERVICE EQUIPMENT WALL BACKING ROUGH-INS

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

GENERAL WALL BACKING NOTES

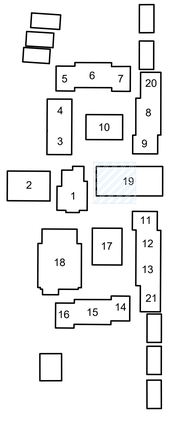
A. ALL WALL BACKING SHOWN ON THIS SHEET IS RECOMMENDED FOR FOOD SERVICE EQUIPMENT SUPPLIED BY KITCHEN EQUIPMENT SUPPLIER. GENERAL CONTRACTOR TO COORDINATE AND REFER TO ARCHITECTURAL SHEETS FOR ALL OTHER WALL BACKING NEEDS PRIOR TO INSTALLATION.

B. PLYWOOD OR GALVANIZED STEEL BACKING SHALL BE USED WHERE INDICATED ON PLANS

C. ANY WALL BACKING REMOVED BY PLUMBER, ELECTRICIAN OR ANY OTHER TRADE TO COMPLETE THEIR INSTALLATION MUST BE REPLACED BY THAT TRADE. IF WALL BACKING CAN NOT BE REPLACED THE GENERAL CONTRACTOR, FOOD SERVICE EQUIPMENT SUPPLIER & OWNER MUST BE NOTIFIED.

D. 5/8" MARINE-GRADE PLYWOOD OR 12 GAUGE GALVANIZED STEEL BACKING SHALL EITHER BE BETWEEN STUDS, OR IN LIEU OF 5/8" GYPSUM BOARD WHERE COMPLETELY CONCEALED BY FRP OR STAINLESS STEEL SHEET.

WALL BACKING LEGEND	
▬	WALL BACKING
+12"	A.F.F. - ABOVE FINISHED FLOOR
G.C.	GENERAL CONTRACTOR



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APP: 04-124851 INC:
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ALPHASTUDIO DESIGN GROUP

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760-431-2444
www.alphastudio-design.com

ARCHITECT OF RECORD

LICENSED ARCHITECT
PAUL R. GALLEGOS
No. C24063
EXP. 01/27
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INNOVATIVE FOOD SERVICE DESIGN

LAKESIDE
UNION SCHOOL DISTRICT

KITCHEN EXPANSION

LEMON CREST ELEMENTARY SCHOOL

12463 LEMON CREST DR.
LAKESIDE, CA 92040

LAKESIDE UNION SCHOOL DISTRICT
12335 WOODSIDE AVE LAKESIDE CA 92040

REVISIONS

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	4/14/2026	DSA V3 SUBMITTAL

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MODEL FILE:
25-0 LUSD Lemon Crest Kitchen Expansion.pln

PLOT DATE:
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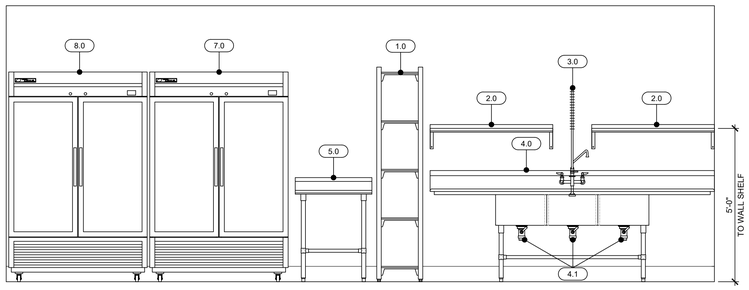
SHEET TITLE

FOODSERVICE EQUIPMENT
WALL BACKING ROUGH-INS

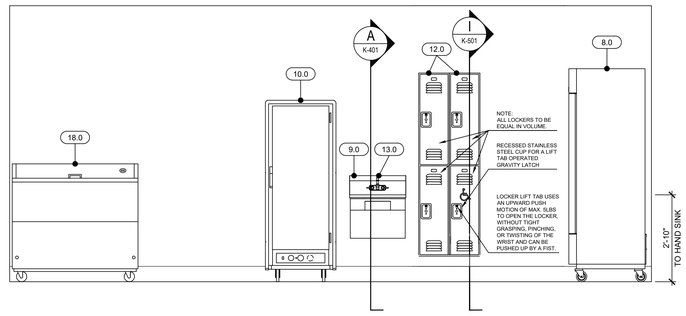
K-301

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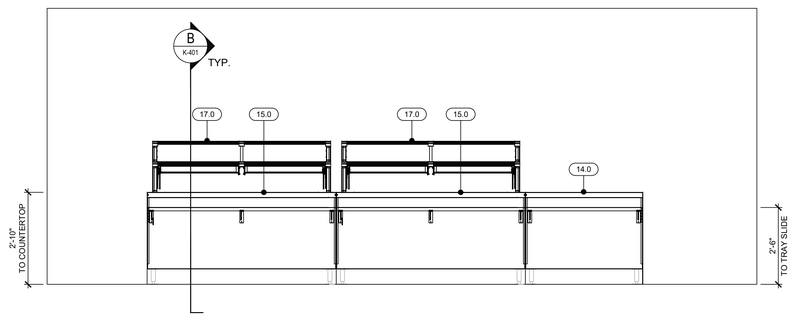
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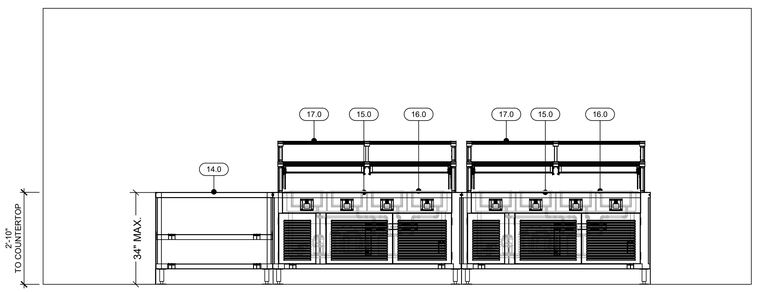
1 PLAN WEST WALL
SCALE | 1/2" = 1'-0"



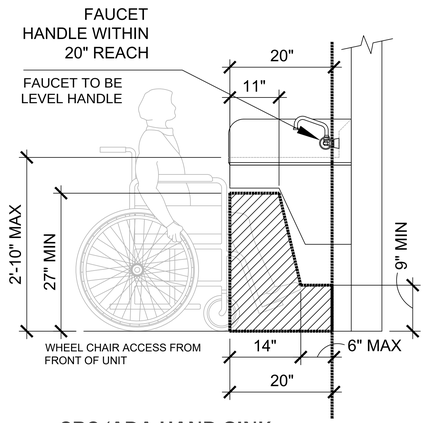
2 PLAN SOUTH WALL
SCALE | 1/2" = 1'-0"



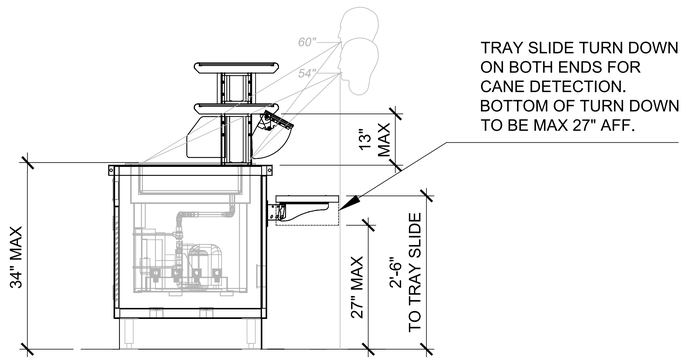
3 SERVING AREA - STUDENT SIDE
SCALE | 1/2" = 1'-0"



4 SERVING AREA - STAFF SIDE
SCALE | 1/2" = 1'-0"



A CBC/ADA HAND SINK
SCALE | 1" = 1'-0"



B SERVING EQUIPMENT
SCALE | 1" = 1'-0"

DSA FLS NOTE:
1) REFER TO ARCHITECTUAL SHEET A-901 FOR THE FINISH SCHEDULE.

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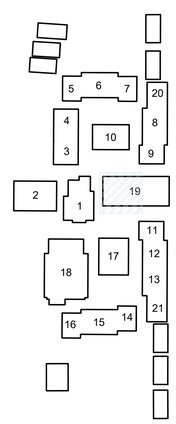
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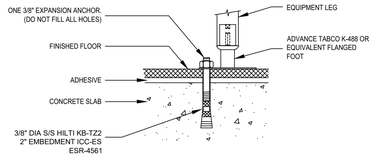
SHEET TITLE

FOODSERVICE EQUIPMENT
ELEVATIONS AND
SECTIONS

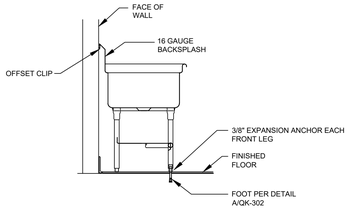
K-401

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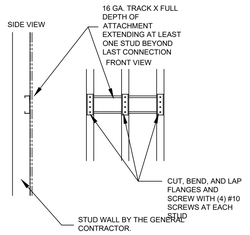


A EQUIPMENT FOOT DETAIL

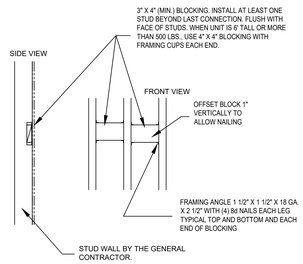


NOTE: THE DETAILS SHOWN OF JOINTS AND SEAMS ARE GRAPHIC REPRESENTATIONS ONLY AND ARE NOT INTENDED TO INDICATE SPACING BETWEEN THE METAL ELEMENTS.

B WALL ATTACHED SINK / TABLE DETAIL

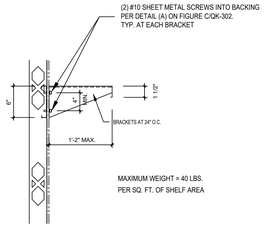


(A) CONNECTIONS TO STEEL STUD WALL

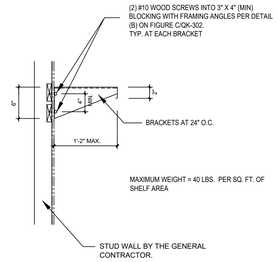


(B) CONNECTIONS TO WOOD STUD WALL

C WALL BACKING

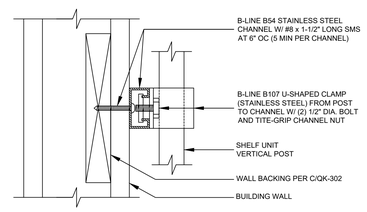


(A) CONNECTIONS TO STEEL STUD WALL



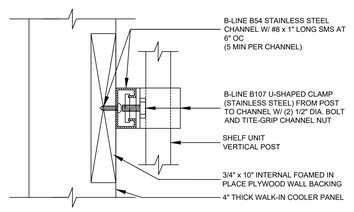
(B) CONNECTIONS TO WOOD STUD WALL

NOTE: INSTALL
CHANNEL AT 2/3H
ABOVE FINISH FLOOR.
H = RACK HEIGHT



(A) CONNECTIONS TO STUD WALL

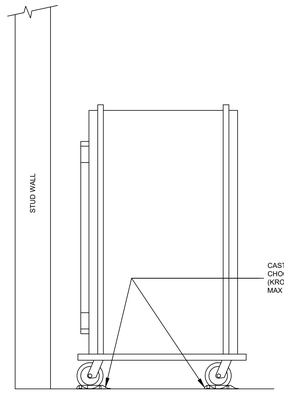
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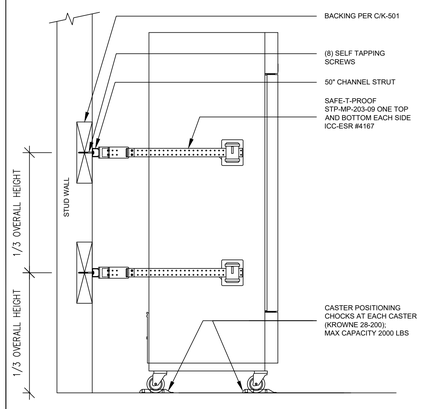
(B) CONNECTIONS TO WALK-IN COOLER PANEL

D WALL SHELF ATTACHMENT

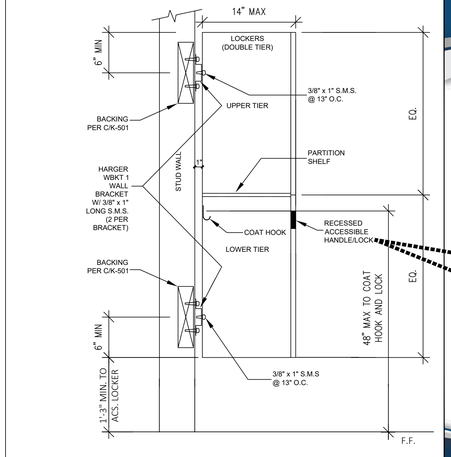
E STORAGE SHELVING WALL ANCHORAGE SEISMIC DETAIL



F MOBILE FOOD WARMING CABINET (NOT HARD WIRED OR HARD PLUMBED)



H REFRIGERATOR/FREEZER ANCHORAGE



I ACCESSIBLE LOCKER ANCHORAGE



J ACCESSIBLE LOCKER HANDLE/LOCK DETAIL

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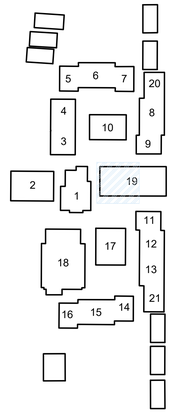
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FOODSERVICE EQUIPMENT
ANCHORAGE DETAILS

K-501