

800 April Lane, Yuba City, CA 95991

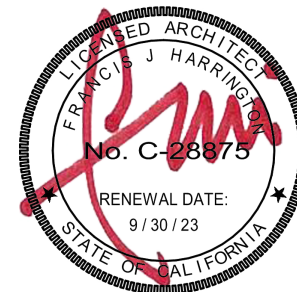
DRAWING INDEX

-
- The map shows Yuba City, Texas, with major highways I-10, I-20, and I-40. Key locations marked include Tierra Buena, Colusa Junction, Yuba City, Marysville, Binney Junction, Linda, and Alicia. The Yuba River and Francisco River are also shown. A black arrow points to a specific location in the city center, labeled 'PROJECT LOCATION'.

1. ADDENDA MUST BE STAMPED AND SIGNED BY THE ARCHITECT OF RECORD AND APPROVED BY DSA IN ACCORDANCE WITH COR TITLE 25, PART 1.
2. THE CONTRACTOR SHALL BE FAMILIAR WITH, AND PERFORM THE DUTIES IN ACCORDANCE WITH DSA PROCEDURE 13-01, CONSTRUCTION OVERSIGHT PROGRAM.
3. CHANGES TO THE STRUCTURAL DESIGN, QUALITY CONTROL, AND LIFE-SAFETY PORTIONS OF THE APPROVED PLANS AND SPECIFICATIONS AFTER THE WORK HAS BEEN LET SHALL BE MADE BY A CONSTRUCTION CHANGE DOCUMENT AS REQUIRED IN TITLE 24, PART 1, 4-338 AND CONSTRUCTION CHANGE DOCUMENTS SHALL BE PREPARED AND SUBMITTED TO DSA IN ACCORDANCE WITH DSA IR A-6.
4. SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS WILL BE CONSIDERED AS CHANGES TO THE APPROVE PLANS AND SPECIFICATIONS. ANY SUCH SUBSTITUTIONS ARE TO BE TREATED AS CONSTRUCTION CHANGE DOCUMENTS AND WILL REQUIRE DSA'S APPROVAL PRIOR TO FABRICATION AND INSTALLATION IN ACCORDANCE WITH TITLE 24, PART 1, 4-338 AND DSA IR A-6.
5. THE PROJECT INSPECTOR MUST BE EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE ARCHITECT, STRUCTURAL ENGINEER, AND DSA IN ACCORDANCE WITH TITLE 24, PART 1, 4-341, AND SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, DSA IR A-6.
6. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
7. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE DSA APPROVED DOCUMENTS WOULD MAKE THE BUILDING NON-COMPLIANT WITH THE REQUIREMENTS OF THE EDITION OF THE CBC IN FORCE AT THE TIME OF CONSTRUCTION, THE DISTRICT (OWNER) SHALL CONDUCT CONSTRUCTION OF A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE REPAIR WORK.

HARRINGTON
DESIGN
ASSOCIATES

5875 PACIFIC STREET, SUITE E2
ROCKLIN, CA 95677 (916) 577-5789
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ARCHITECT

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OWNER

ADMINISTRATION OFFICE REMODEL

**APRIL LANE
ELEMENTARY SCHOOL**

800 April Lane,
Yuba City, CA 95991

REVISIONS

DATE December 30, 2022

TITLE SHEET

Y

T0.0

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 NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS.

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

ACCESSIBLE PATH OF TRAVEL:

ACCESSIBLE ROUTE OF TRAVEL AS INDICATED IS A BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" IF BEVELED AT 1:2 MAXIMUM SLOPE, OR VERTICAL LEVEL CHANGES THAT DO NOT EXCEED 1/4" VERTICAL AND IS AT LEAST 48" WIDE. THE PATH SURFACE IS SLIP RESISTANT, STABLE, FIRM AND SMOOTH. THE CROSS-SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL AND IS LESS THAN 5% UNLESS OTHERWISE INDICATED. ACCESSIBLE ROUTE OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80". GENERAL CONTRACTOR SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE ROUTE OF TRAVEL BASED UPON THESE NOTES AND SHALL NOTIFY THE ARCHITECT FOR ITEMS THAT ARE NOT COMPLIANT.

PASSING SPACES (11B-403.5.3) OF 60"x60" MIN. ARE LOCATED NOT MORE THAN 200' APART. WALKS WITH CONTINUOUS GRADIENTS HAVE 60" IN LENGTH OF LEVEL AREAS (11B-403.7) NOT MORE THAN 400' APART. THERE IS NO DROP-OFF OVER 4" AT THE EDGE OF WALK OR LANDING UNLESS IDENTIFIED BY A GUARD, A HANDRAIL, OR A WARNING CURB AT LEAST 6" IN HEIGHT ABOVE THE WALK (11B-303.5).

PARKING CALCULATION

PARKING LOT	72
TOTAL PARKING STALL COUNT	(CBC TABLE 11B-208.2)
ACCESSIBLE PARKING REQUIREMENTS	
TOTAL ACCESSIBLE STALLS REQ'D	3
ACCESSIBLE STALLS REQ'D (CAR)	2
ACCESSIBLE STALLS REQ'D (VAN)	1
ACCESSIBLE STALLS PROVIDED	2 CAR, 1 VAN COMPLIANT

EXISTING CAMPUS BUILDING DATA

(E) UNIT	EXIST'G/NEW	APP. NO.	NAME/USE
A	EXIST'G	23936 / 02-102125	CLASSROOMS / MP
B	EXIST'G	23936 / 02-102125	CLASSROOMS
C	EXIST'G	68977	CLASSROOMS
D	EXIST'G	46894	CLASSROOMS
F	EXIST'G	02-102000	CLASSROOMS
G	EXIST'G	49135	CLASSROOMS
H	EXIST'G	02-101599	CLASSROOMS
K	EXIST'G	02-103382	CLASSROOMS
L	EXIST'G	02-107494	CLASSROOMS

CODE ANALYSIS: (UNITS A & B)

SEE A2.0 FOR 1961 UBC BUILDING CODE ANALYSIS OF UNITS A & B AND 2019 CBC EXITING PLAN

LEGEND:

	(E) UNITS/BUILDINGS NOT INCLUDED IN THIS APPLICATION.
	AREA OF WORK
	ACCESSIBLE PATH OF TRAVEL (P.O.T.), COMPLIANT WITH 11B-202.4
	PROPERTY LINE
	CONCRETE PAVING, SEE ENLARGED PLANS ON A1.1 AND SPEC 32 16 00
	ASPHALT CONCRETE PAVING, SEE ENLARGED PLANS ON A1.1 AND SPEC 32 12 00
	ORNAMENTAL IRON (O.I.) FENCE & GATES, SEE ENLARGED PLANS AND SPEC SECTION 32 31 19

LANDSCAPE NOTES:

- CONTRACTOR TO LOCATE AND IDENTIFY ALL EXISTING IRRIGATION LINES AND COMPONENTS WITHIN THE AREA OF WORK.
- CONTRACTOR TO RELOCATE ALL EXISTING IRRIGATION LINES AND HEADS MADE INOPERABLE TO ENSURE FULL AND COMPLETE IRRIGATION SUPPLY AND COVERAGE OF THE SITE.
- CONTRACTOR TO FINISH GRADE ALL TRANSITIONS FROM THE AREA OF WORK TO THE EXISTING SITE SUCH THAT ALL SURFACE RUNOFF IS DIRECTED AWAY FROM BUILDINGS OR WALK WAYS.
- ALL AREA DISTURBED BY CONSTRUCTION ACTIVITY IS TO BE REPAIRED TO PREVIOUS CONDITION. PLACE HYDROSEED IN ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES THAT ARE NOT TO RECEIVE PAVEMENT. PROVIDE NEW SPRINKLER HEADS AND PIPING AS REQUIRED TO ACHIEVE PROPER COVERAGE.

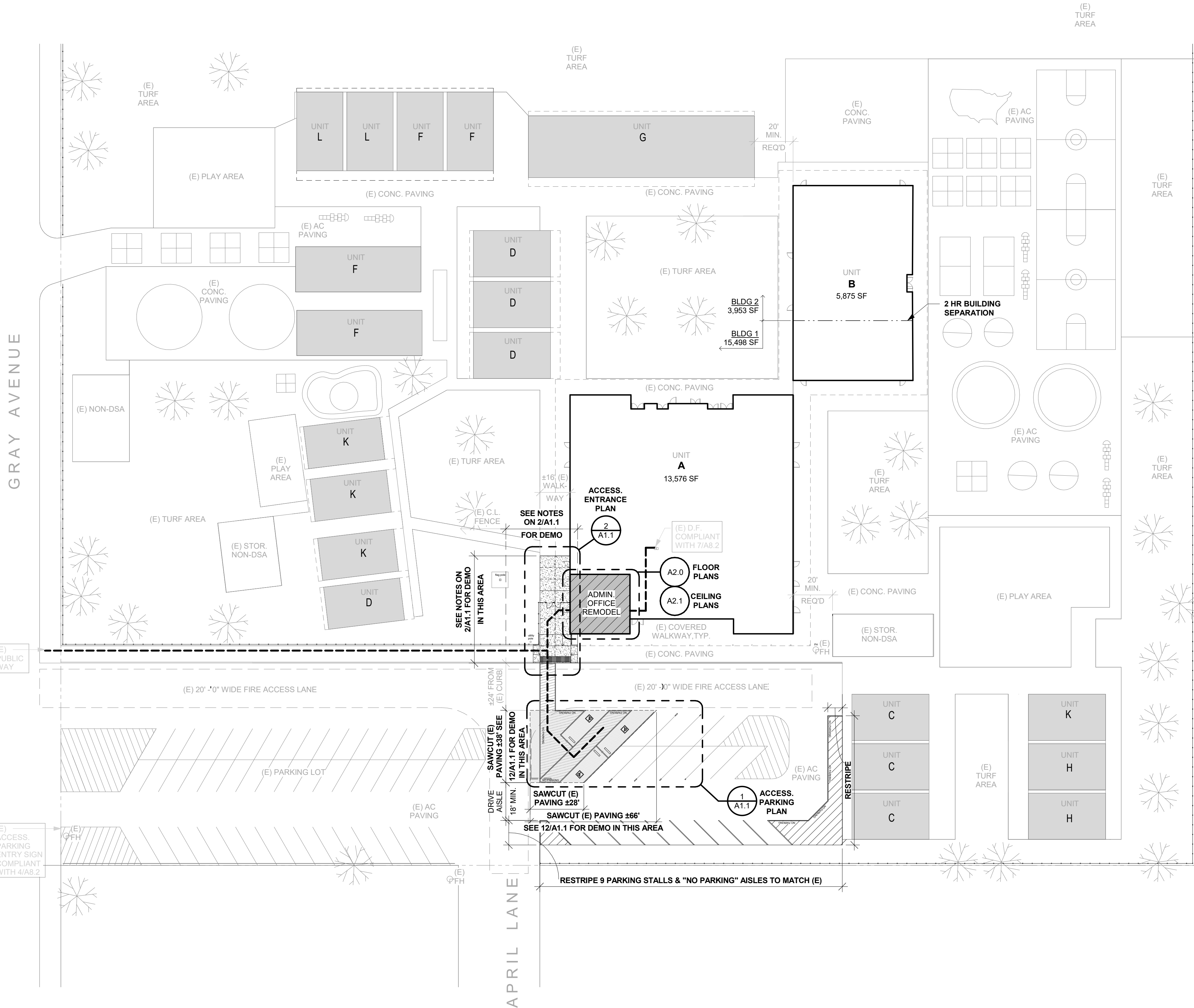


810

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

PROJECT INFORMATION			
School District/Owner: YUBA CITY UNIFIED SCHOOL DISTRICT			
Project Name/School: APRIL LANE ELEMENTARY SCHOOL / ADMINISTRATION OFFICE REMODEL			
Project Address: 800 APRIL LANE, YUBA CITY, CA 95991			
FIRE & LIFE SAFETY INFORMATION			
1.	Has a fire hydrant flow test been performed within the past 12 months? (If yes, provide a copy of the test data.)	Yes ☒	No ☐
2.	Was the fire hydrant water flow test performed as part of this LFA review?	Yes ☒	No ☐
3.	Is the project located within a designated fire hazard severity zone (FHSZ) as established by Cal-Fire? (If yes, indicate FHSZ classification below.)	Yes ☐	No ☒
Refer to the following website for FHSZ locations: http://eqis.fire.ca.gov/FHSZ/		Moderate ☐	High ☐ Very High ☐
Wildland Interface Area (WIFA) (If any designations are checked, project design must meet the requirements of CBC Chapter 7A.)			WIFA ☐

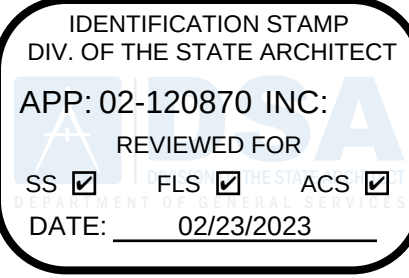
CONDITION MEANS AND METHODS RESOLUTION		ALTERNATE ACCEPTED			
		Yes	No	N/A	N/R
4.	Emergency vehicle access roadways do not meet CFC requirements.			☒	
4a.	Acceptable Alternate: Emergency vehicle and personnel access as proposed by the project architect is acceptable for providing fire suppression and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



1

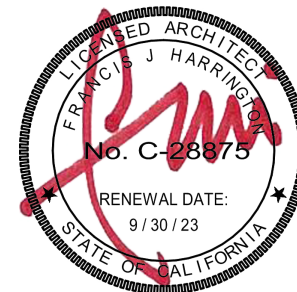
OVERALL SITE PLAN

1" = 30'-0"



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ASSOCIATES

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ELEMENTARY SCHOOL

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REVISIONS

NO.	DESCRIPTION	DATE

DATE: December 30, 2022

OVERALL SITE
PLAN

A1.0

JOB NO. 2149.00

KEYNOTES:

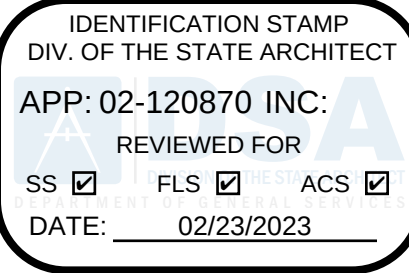
THESE KEYNOTES APPLY TO THIS SHEET ONLY

- 1 SITE CONCRETE PAVING - 3,000 PSI MIN CONCRETE, 4" THICK O/ SAND BEDDING, O/ 6" COMPACTED SUBGRADE (95% RELATIVE COMPACTION). ALL CONCRETE PAVING TO RECEIVE A MEDIUM BROOM FINISH. SEE DETAILS ON A1.2 AND SPEC 32 16 00.
- 2 ASPHALT CONCRETE PAVING - 1/2" TYPE B 3" AC O/ 9" CLASS II A.B. O/ 12" COMPACTED SUBGRADE (90% RELATIVE COMPACTION) (T.I.=5.5, R-VALUE=20). SEE SPEC 32 12 00.
- 3 NEW O.I. FENCE W/ (2) TWO ACCESSIBLE GATES. SEE DETAILS 6 & 7 ON A1.2 AND SPEC SECTION 32 31 19
- 4 (E) LANDSCAPE AREA, SEE A1.0 FOR LANDSCAPE NOTES
- 5 CAST IN PLACE TRUNCATED DOMES, FLUSH WITH ADJACENT WALK, SEE DETAIL 14/A1.2
- 6 POST MOUNTED ACCESSIBLE VAN PARKING STALL SIGN, SEE DETAIL 17/A1.2
- 7 POST MOUNTED ACCESSIBLE PARKING STALL SIGN, SEE DETAIL 18/A1.2
- 8 4" WIDE BLUE BORDER AROUND EACH PARKING ACCESS AISLE, TYP.
- 9 4" WIDE WHITE DIAGONAL STRIPING AT 36" ON CENTER AT EACH PARKING ACCESS AISLE, TYP.
- 10 12" HIGH WHITE "NO PARKING" LETTERING AT EACH PARKING ACCESS AISLE, TYP.
- 11 WHEEL STOP AT EACH ACCESSIBLE STALL, TYP.
- 12 4" WIDE WHITE PARKING STALL STRIPING, TYP.
- 13 SLOPES AT EACH ACCESSIBLE STALL SHALL NOT EXCEED 2% IN ANY DIRECTION, TYP.
- 14 SLOPES AT EACH PARKING ACCESS AISLE SHALL NOT EXCEED 2% IN ANY DIRECTION, TYP.
- 15 PAINTED INTERNATIONAL SYMBOL OF ACCESSIBILITY AT EACH ACCESSIBLE STALL, TYP., SEE DETAIL 15/A1.2
- 16 4" WIDE WHITE PARKING STALL STRIPING, TYP., EXTEND AS REQUIRED TO PROVIDE A GRADUAL TRANSITION FROM (E) TO (N), SEE OVERALL SITE PLAN FOR ADDITIONAL INFORMATION

SHEET NOTES:

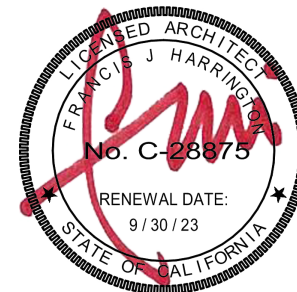
THESE SHEET NOTES APPLY TO THIS SHEET ONLY

- 1. THIS SHEET APPLICABLE FOR IDENTIFICATION OF TYPE AND LAYOUT OF CAMPUS PAVING AREAS. IDENTIFICATION OF CAMPUS EXPANSION AND CONTROL JOINTS AND FOR COORDINATION OF DRAIN INLET PLACEMENT IN PAVED SURFACE AREAS.
- 2. CONCRETE WALK DIMENSIONS ARE FROM F.O.F. AT BUILDINGS, F.O. CONCRETE C/ OF E.J. AND/OR CONTROL JOINT.
- 3. ALL WALKS SHALL HAVE POSITIVE DRAINAGE TO LANDSCAPE AREAS AND/OR DRAINS AND DRAIN AWAY FROM BUILDINGS A MAXIMUM OF 2%, REFER TO PLAN FOR SPOT ELEVATIONS.
- 4. ALL EXTERIOR CONCRETE WALKS SHALL RECEIVE A MEDIUM BROOM FINISH (U.O.N.) IN A DIRECTION AWAY FROM THE BUILDING (U.O.N.) - SEE SPECIFICATIONS.
- 5. PROVIDE EXPANSION CONTROL JOINTS AT MAXIMUM OF 18'-0" O.C. AND CONTROL JOINTS AT MAXIMUM OF 6'-0" O.C. IN ALL CONCRETE WALKS, CURBS AND MOW STRIPS OR AS OTHERWISE SPECIFIED OR DETAILED IN THESE DRAWINGS.
- 6. ALL JOINTS SHALL ALIGN WITH BUILDING FACE OF FINISH, COLUMN CENTER LINE OR AS OTHERWISE INDICATED.
- 7. FOR PAVING DETAILS, JOINTS, EDGE CONDITIONS, TRANSITIONS, CURBS, ETC., SEE SHEET A1.2.
- 8. CONTRACTOR TO DETERMINE LOCATION OF (E) UNDERGROUND IRRIGATION & SPRINKLERS. DAMAGE CAUSED BY INSTALLATION OF THIS WORK SHALL BE REPAIRED TO SATISFACTION OF OWNER AT NO ADDITIONAL COST TO THE CONTRACT. MINOR MODIFICATIONS OR ADJUSTMENTS WILL BE REQUIRED TO PROVIDE OPERATING SPRINKLER IRRIGATION SYSTEM.



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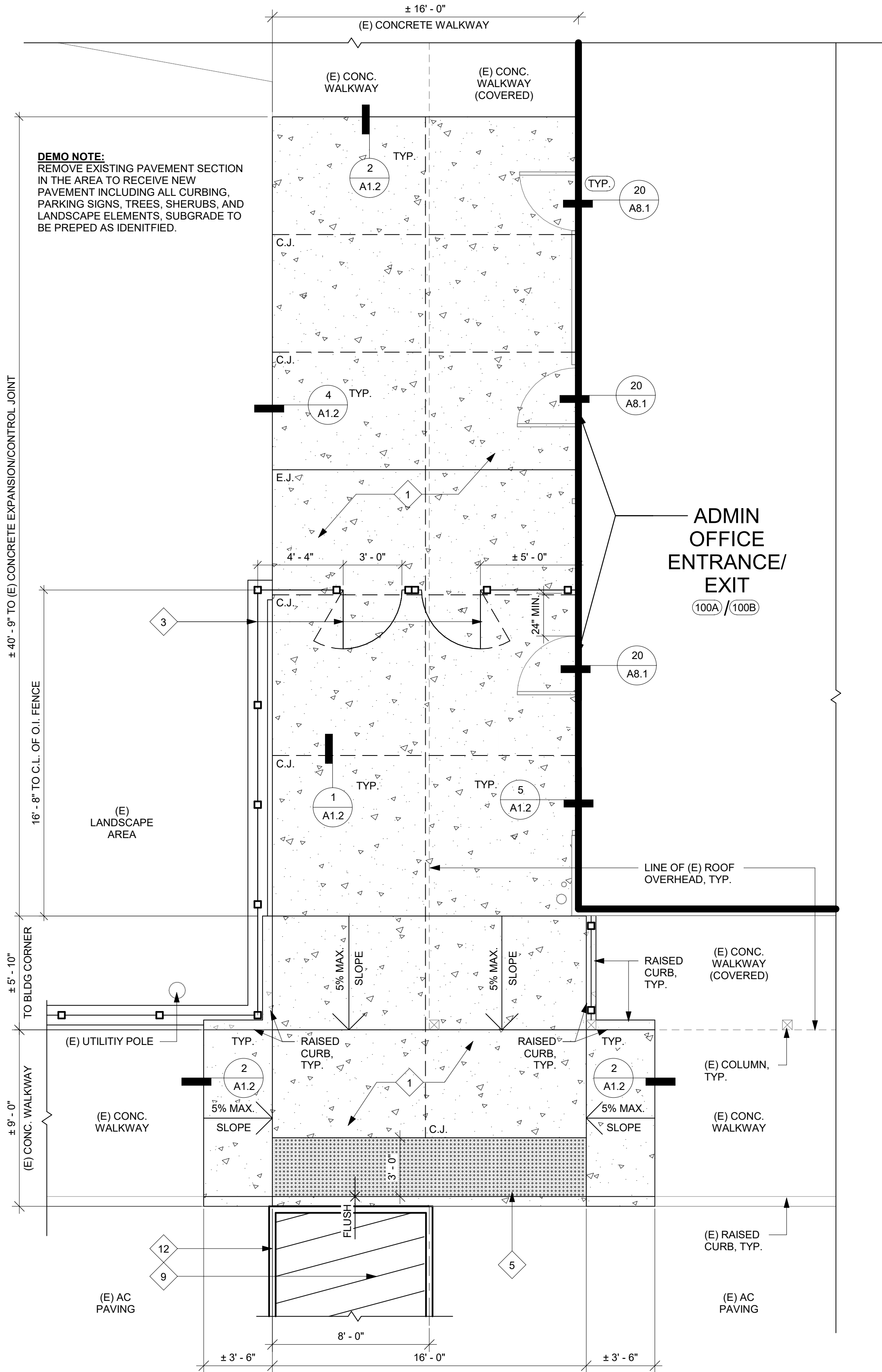
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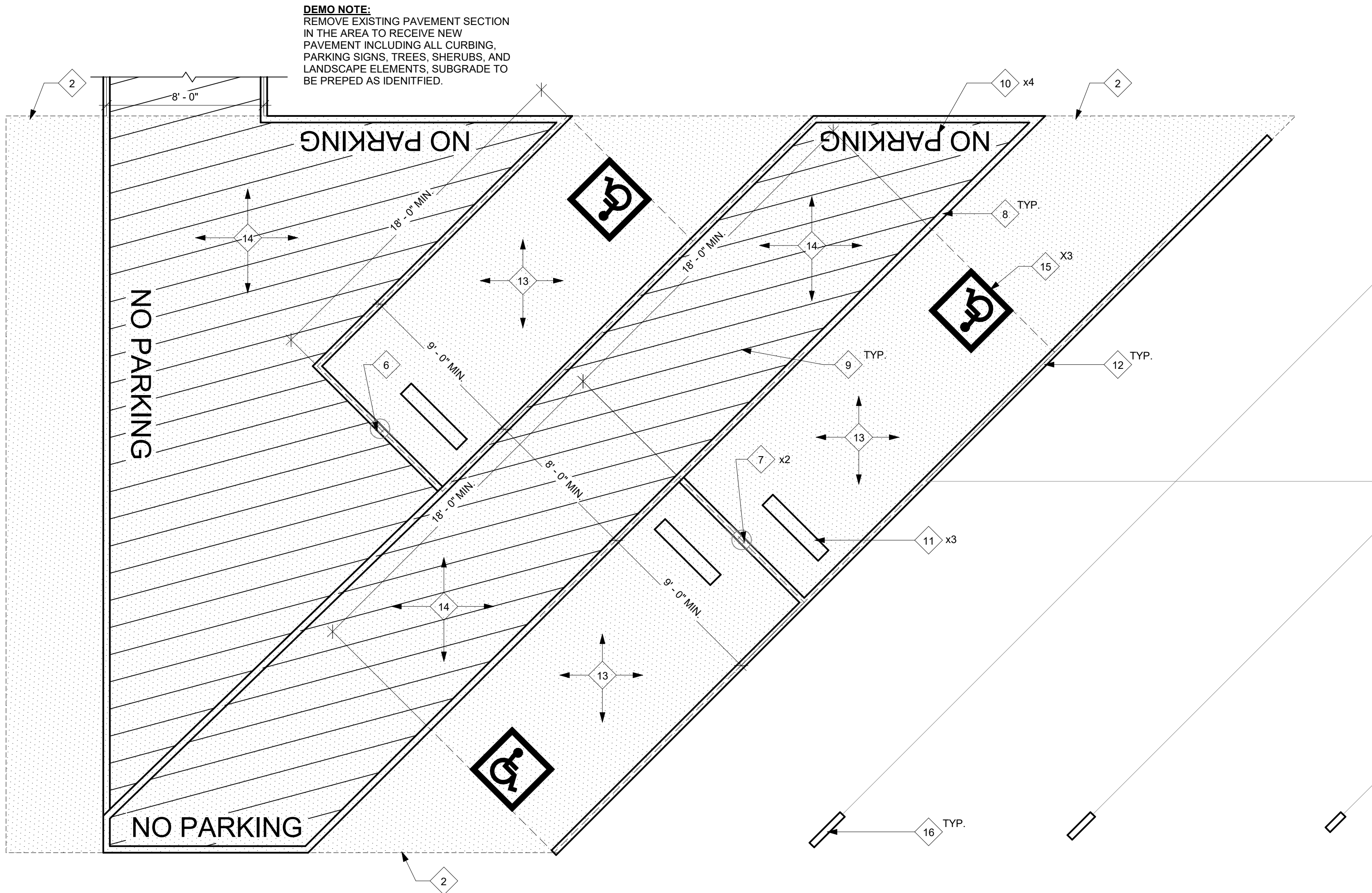
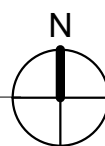
ENLARGED SITE
PLANS

A1.1



2 ENLARGED SITE PLAN - ADMIN ENTRANCE

1/4" = 1'-0"

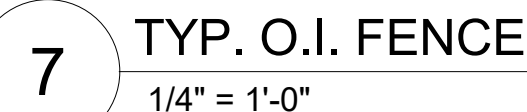
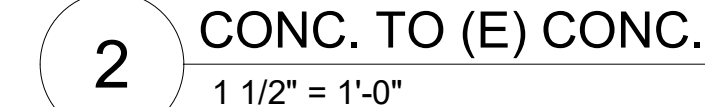
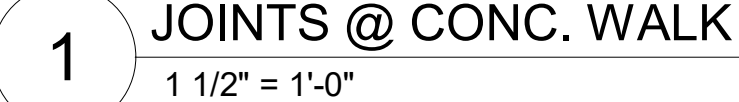


1 ENLARGED SITE PLAN - ACCESSIBLE PARKING

1/4" = 1'-0"



JOB NO. 2149.00



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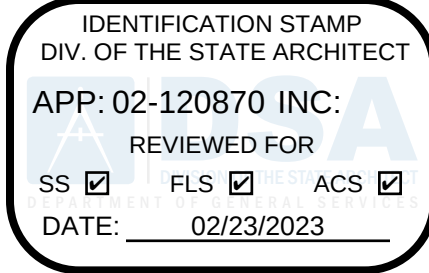
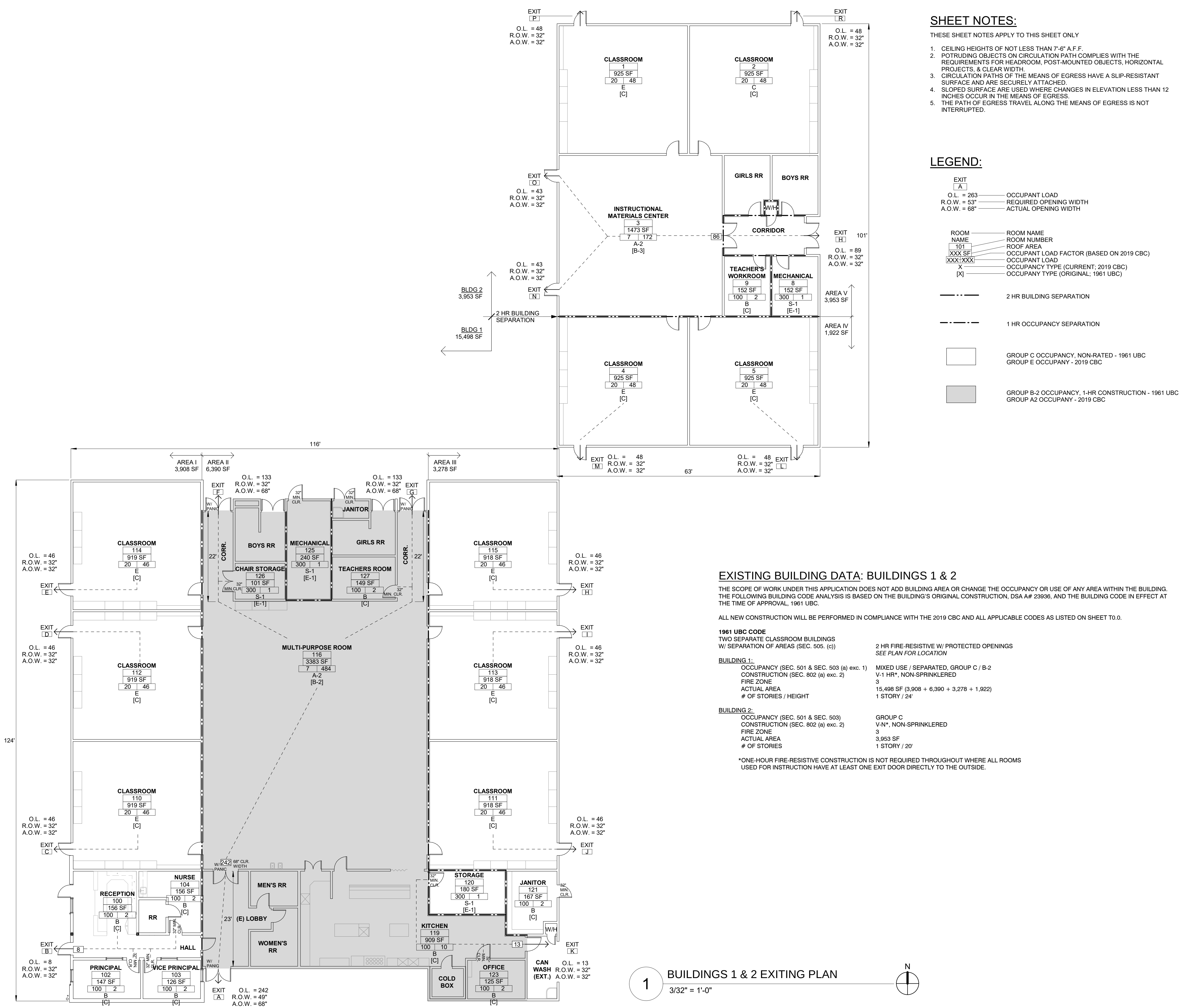
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SITE DETAILS

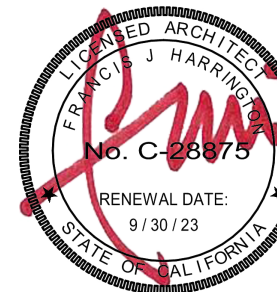
A1.2

OB NO. 2149.00



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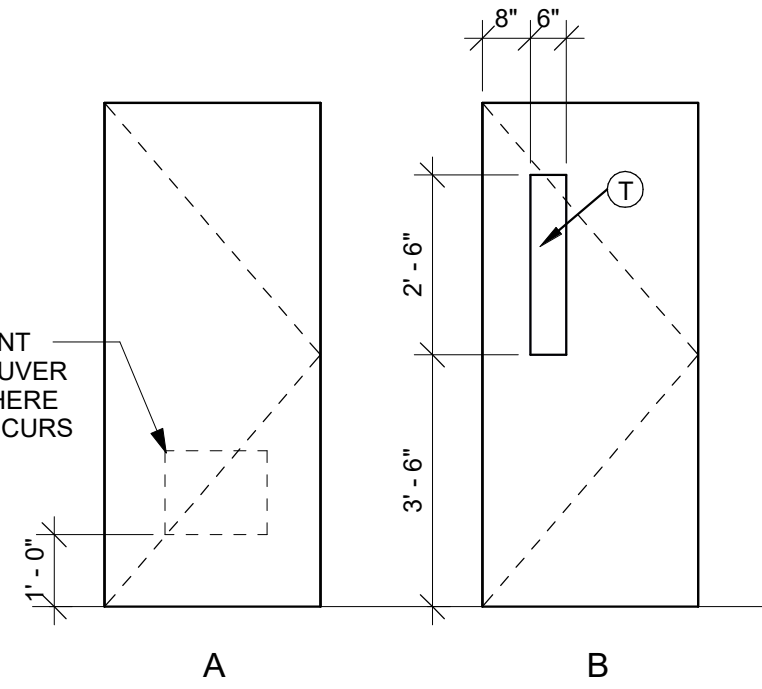
EXISTING
BUILDING DATA
& EXITING PLAN

A2.0

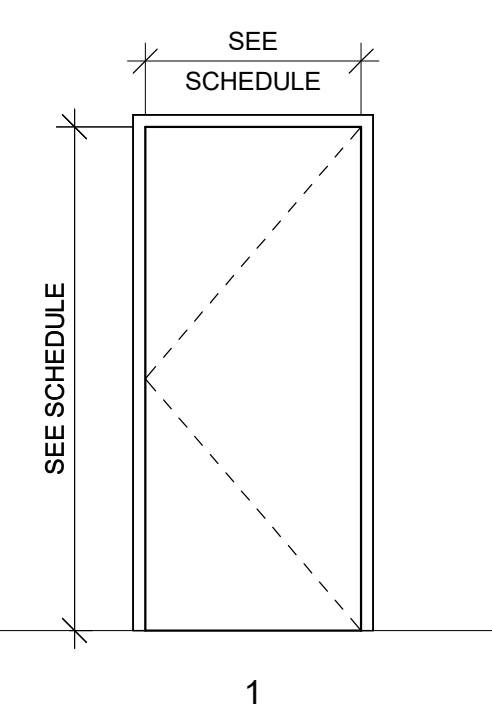
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DOOR, FRAME & HARDWARE SCHEDULE															
DOOR NUMBER	ROOM NAME	DOOR SIZE (WIDTH x HEIGHT)	DOOR				FRAME		DETAILS			HARDWARE GROUP	STC RATING	SIGNAGE	COMMENTS
			TYPE	MATERIAL	GLASS	LOUVER	TYPE	MATERIAL	HEAD	JAMB	SILL				
100A	RECEPTION	3'-0" x 8'-0"	(E)	(E) H.M.	(E)	-	(E)	(E) H.M.	-	-	20/A8.1	1	-	S-5, S-9	
100B	RECEPTION	3'-0" x 8'-0"	(E)	(E) H.M.	(E)	-	(E)	(E) H.M.	-	-	20/A8.1	1	-	S-5, S-9	
101	HALL	3'-0" x 7'-0"	B	H.M.	Y	-	1	H.M.	4/A8.1	4/A8.1	16/A8.1	2	-	S-5, S-9	
102	PRINCIPAL	3'-0" x 7'-0"	B	H.M.	Y	-	1	H.M.	4/A8.1	4/A8.1	15/A8.1	3	Y	S-5	
103	VICE PRINCIPAL	3'-0" x 7'-0"	B	H.M.	Y	-	1	H.M.	4/A8.1	4/A8.1	15/A8.1	3	Y	S-5	
104	NURSE	3'-0" x 7'-0"	B	H.M.	Y	-	1	H.M.	4/A8.1	4/A8.1	15/A8.1	3	Y	S-5	
105	RR	3'-0" x 7'-0"	A	H.M.	-	12" x 12"	1	H.M.	4/A8.1	4/A8.1	16/A8.1	4	-	S-3	

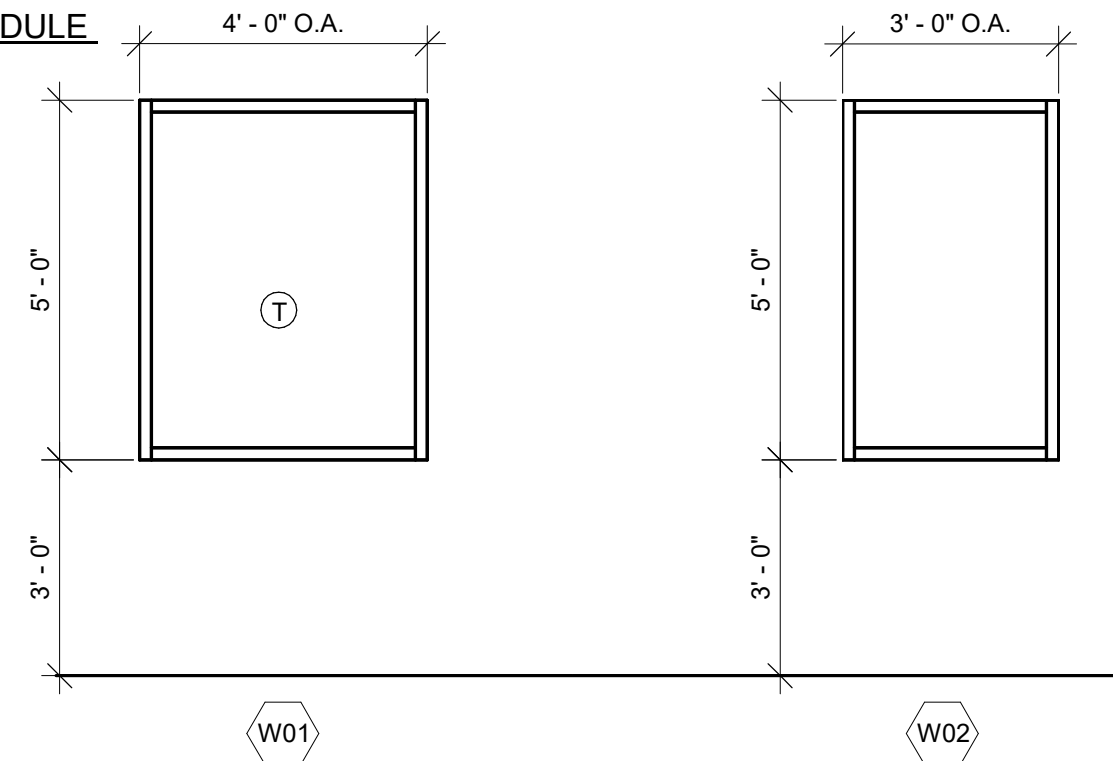
DOOR TYPES



DOOR FRAME TYPES



WINDOW SCHEDULE



FINISH SCHEDULE												
ROOM NUMBER	ROOM NAME	FLOOR	BASE	WALLS				WAINSCOT		CEILING		REMARKS
				NORTH	EAST	SOUTH	WEST	MAT.	HGT.	MAT.	HEIGHT	
100	RECEPTION	103	201	301	301	301	301	-	-	501	8'-3 3/4"	
101	HALL	103	201	301	301	301	301	-	-	501	8'-3 3/4"	
102	PRINCIPAL	103	201	301	301	301	301	-	-	501	8'-3 3/4"	
103	VICE PRINCIPAL	103	201	301	301	301	301	-	-	501	8'-3 3/4"	
104	NURSE	103	201	301	301	301	301	-	-	501	8'-2 1/4"	
105	RR	102	202	301	301	301	301	401	7'-6"	501	8'-2 1/4"	
106	(E) LOBBY	(E) 101	201*	-	-	301	301	-	-	-	8'-3 3/4"	*WEST & (PARTIAL) SOUTH WALL ONLY

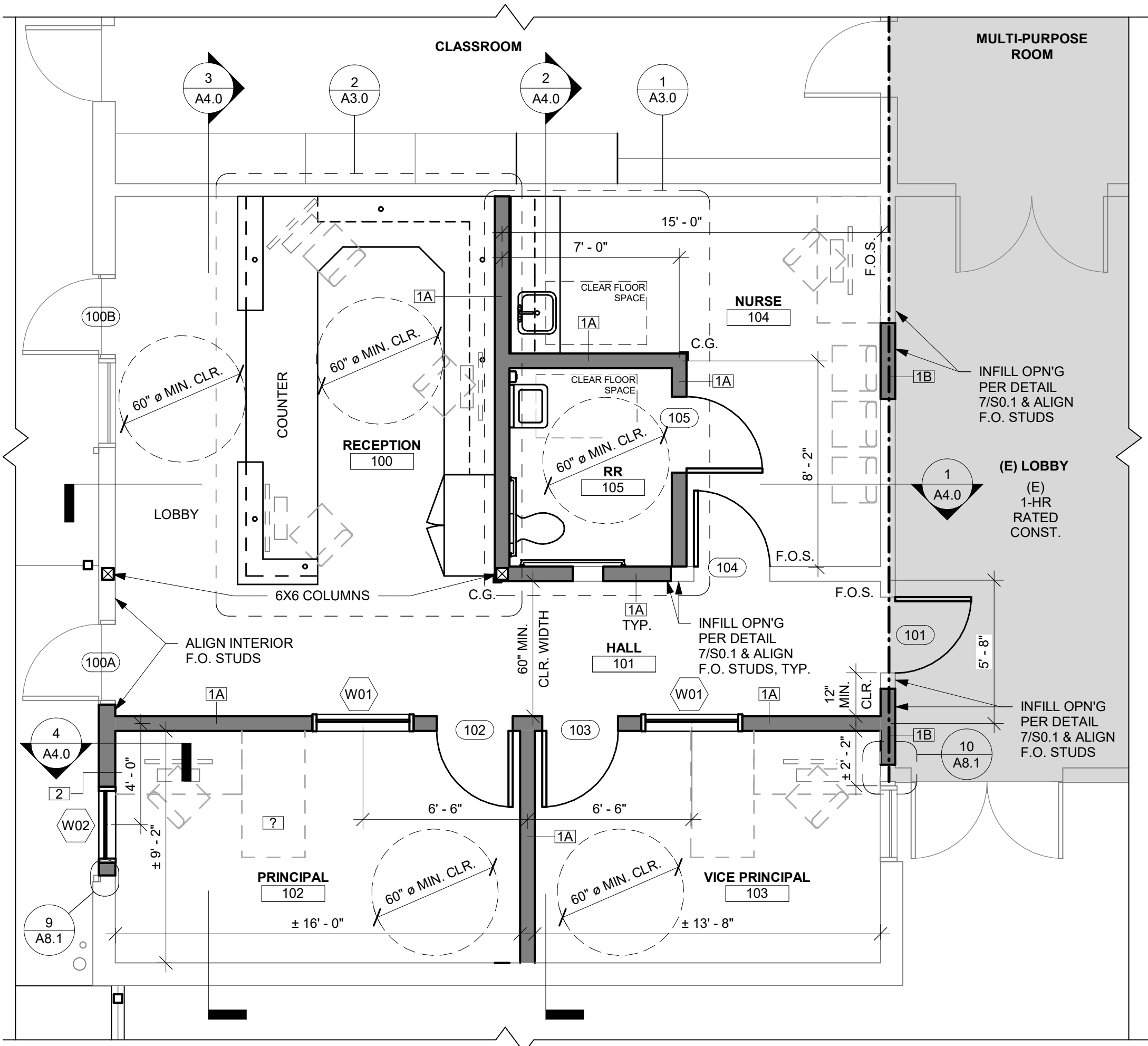
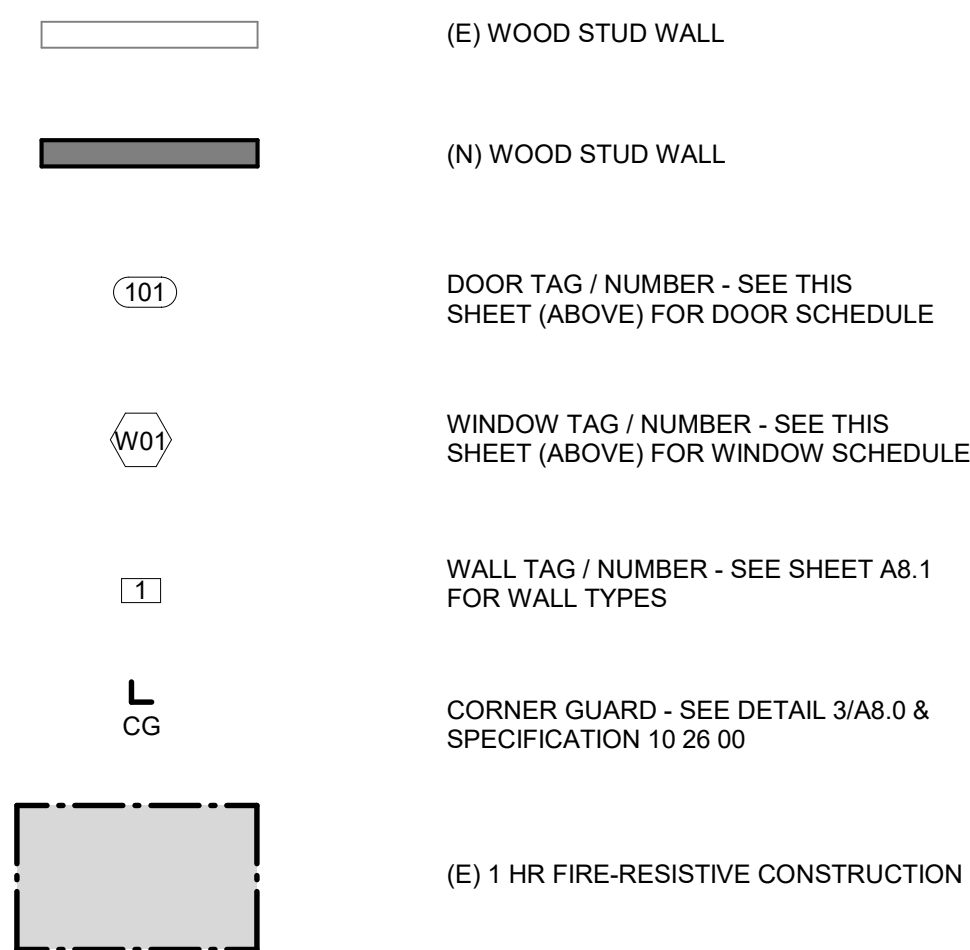
FLOOR		BASE		WALL		WAINSCOT		CEILING	
SYMB	PRODUCT	SYMB	PRODUCT	SYMB	PRODUCT	SYMB	PRODUCT	SYMB	PRODUCT
101	VCT	201	4" TOPSET RUBBER	301	PAINT	401	CERAMIC TILE	501	PAINT
102	CERAMIC TILE	202	CERAMIC TILE						
103	CARPET								

GENERAL FLOOR PLAN NOTES:

- ALL DIMENSIONS ARE TO CENTERLINE OF WALLS, U.N.O.
- ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND/OR ADJOIN IN THE SAME PLANE.
- ALL DOORS SHALL BE SET 6 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS.
- ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT.
- PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES.
- ALL FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS U.N.O.
- ALL FLOOR FINISH MATERIAL CHANGES SHALL HAVE REDUCER STRIPS.
- ALL REQUIRED ACCESSIBLE CLEARANCES FOR ALL ITEMS, INCLUDING BUT NOT LIMITED TO ALL COUNTER TOPS, ALL PLUMBING FIXTURES, ALL DRINKING FOUNTAINS, ALL ELECTRIC WATER COOLERS, ALL LAVATORIES, ALL URINALS, ALL TOILETS SHALL BE STRICTLY ENFORCED.
- REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK.

LEGEND: (NEW WORK)

SEE T0.0 FOR ADDITIONAL SYMBOLS/LEGENDS NOT INDICATED HERE



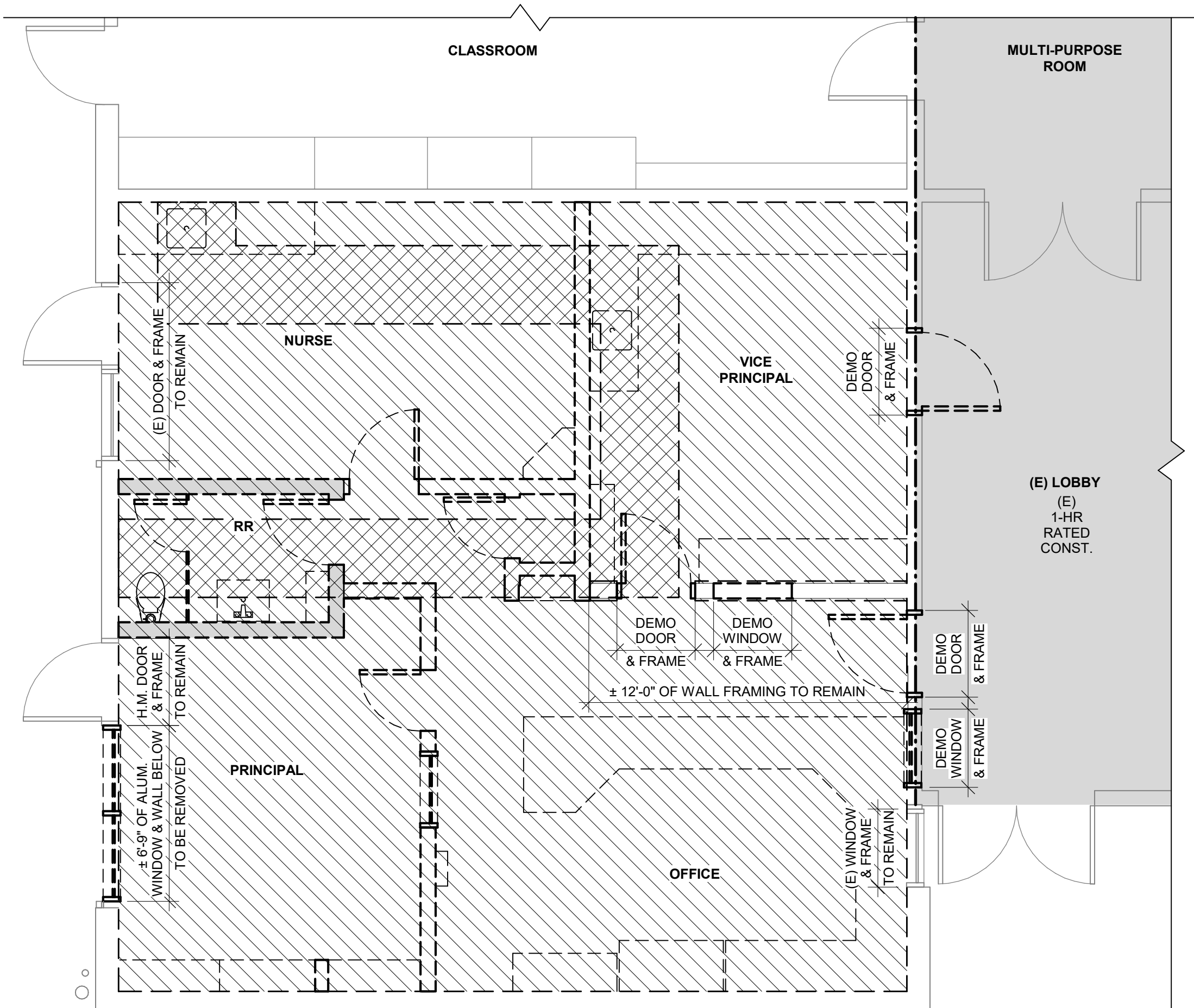
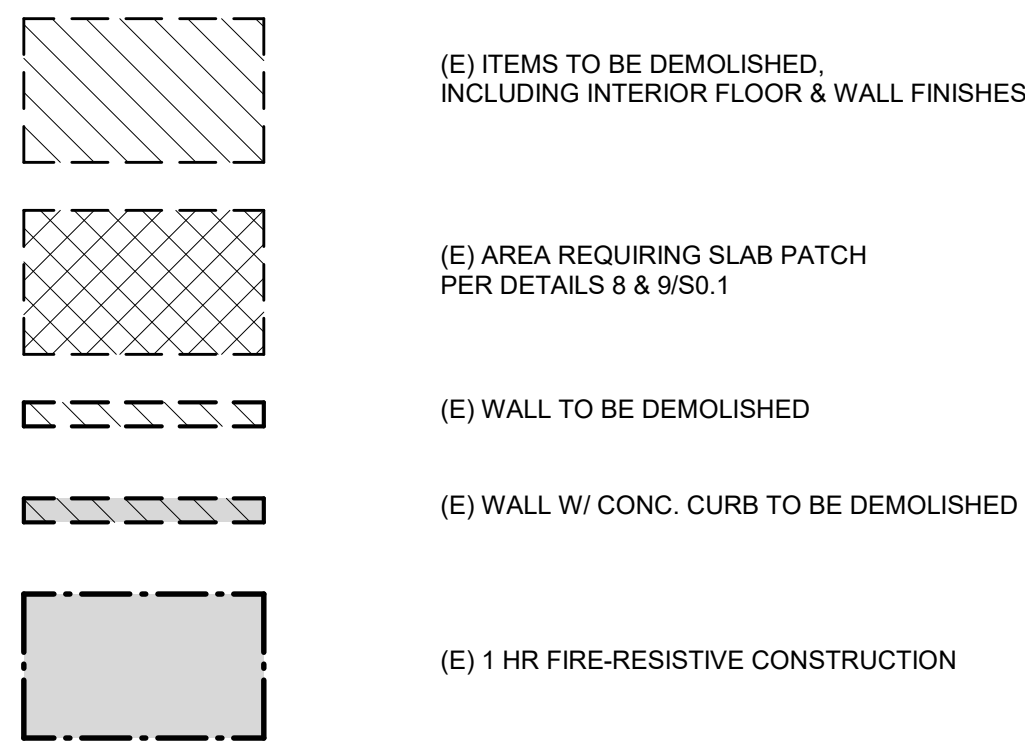
2 FLOOR PLAN - NEW WORK

1/4" = 1'-0"

DEMOLITION NOTES:

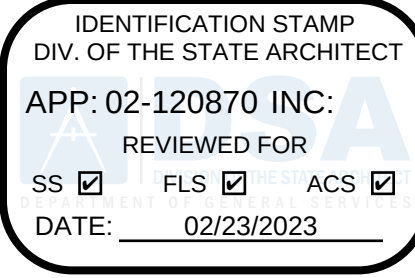
- OWNER HAS RIGHT OF FIRST REFUSAL OF ALL ITEMS REMOVED AS PART OF THE SCOPE OF WORK, WHETHER IDENTIFIED AS SALVAGE OR NOT. TURN OVER ANY REQUESTED ITEMS TO THE BUILDING OWNER IN GOOD AND CLEAN CONDITION.
- ALL FURNITURE WILL BE REMOVED OR RELOCATED BY THE OWNER AS NECESSARY PRIOR TO THE DEMOLITION WORK OF THIS PROJECT. CONTRACTOR SHALL COORDINATE WITH OWNER AS REQUIRED.
- REMOVE EXISTING CONSTRUCTION TO THE EXTENT INDICATED ON THE DRAWINGS. SHOULD ANY DAMAGE OCCUR TO ANY EXISTING CONSTRUCTION TO REMAIN, THE CONTRACTOR SHALL REPAIR THE DAMAGE TO MATCH EXISTING AND OR ADJACENT CONSTRUCTION AT NO COST TO THE OWNER.
- WHEN UNANTICIPATED MECHANICAL, ELECTRICAL, PLUMBING, OR STRUCTURAL ELEMENTS THAT CONFLICT WITH THE INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, DETERMINE THE NATURE AND EXTENT OF THE CONFLICT AND NOTIFY THE ARCHITECT IMMEDIATELY FOR RESOLUTION.
- SAW-CUT AND REMOVE EXISTING FLOOR FINISHES AND FLOOR SLAB TO INSTALL NEW FIXTURES, ITEMS, AND OR DEVICES FOR ALL SCOPE-OF-WORK PERTAINING TO NEW MECHANICAL WORK, NEW PLUMBING UTILITIES, NEW PLUMBING WORK, NEW ELECTRICAL WORK, AND NEW TECHNOLOGY WORK. SPLICE NEW REINFORCING BARS DOWELLED INTO EXISTING CONCRETE AND PROVIDE NEW VAPOR RETARDER AND NEW CONTINUOUS WATERSTOPS AT JOINT BETWEEN NEW CONCRETE FLOOR SLAB AND EXISTING CONCRETE FLOOR SLAB. PATCH WITH NEW 3,500 PSI MINIMUM CONCRETE AND PREPARE FLOOR, INCLUDING NEW CONCRETE, TO RECEIVE NEW FLOOR FINISHES. COORDINATE WITH S0.1.
- EXISTING WALLS (OR PORTIONS OF WALLS) TO BE REMOVED SHALL BE CUT FLUSH WHERE INTERSECTING WITH WALLS TO REMAIN. REMAINING WALLS TO BE PATCHED AND FINISHED SMOOTH.
- NEW OPENING TO BE CUT IN EXISTING WALLS SHALL BE SAW-CUT AT LOCATIONS INDICATED TO THE HEIGHT AND WIDTH INDICATED.
- WHERE EXISTING WALL OPENINGS ARE TO BE NEWLY CLOSED-OFF, REMOVE ANY EXISTING OPENING FRAME AND PATCH AND REPAIR EXISTING WALL TO MATCH EXISTING ADJACENT MATERIALS AND FINISHES, U.N.O.
- WHERE EXISTING INTERIOR WALLS ARE REPLACED OR REMOVED, REMOVE MEP SYSTEMS BACK TO PANEL, OR MECHANICAL ROOM, OR FARTHEST POSSIBLE POINT WITHOUT DISTURBING EXISTING CONSTRUCTION. REMOVE EXISTING MECHANICAL EQUIPMENT, RELOCATE POWER PER MEP DRAWINGS.
- REFER TO MEP DRAWINGS FOR DEMOLITION OF MEP SYSTEMS. IDENTIFY WORK REQUIRED BY THIS CONTRACTOR WHICH MAY AFFECT DEMOLITION AND OR REPAIRS OF ARCHITECTURAL ELEMENTS. COORDINATE WITH RELATED SUBCONTRACTORS TO THE EXTENT OF ALL DEMOLITION WORK.
- PATCH FLOORS, WALLS, AND CEILINGS WHICH REMAIN AT LOCATIONS WHERE PIPES, AND CONDUITS, ETC. ARE REMOVED. TO MATCH EXISTING.

LEGEND: (DEMOLITION)



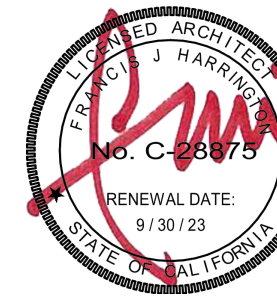
1 FLOOR PLAN - DEMOLITION

1/4" = 1'-0"



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APRIL LANE ELEMENTARY SCHOOL

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Yuba City, CA 95991

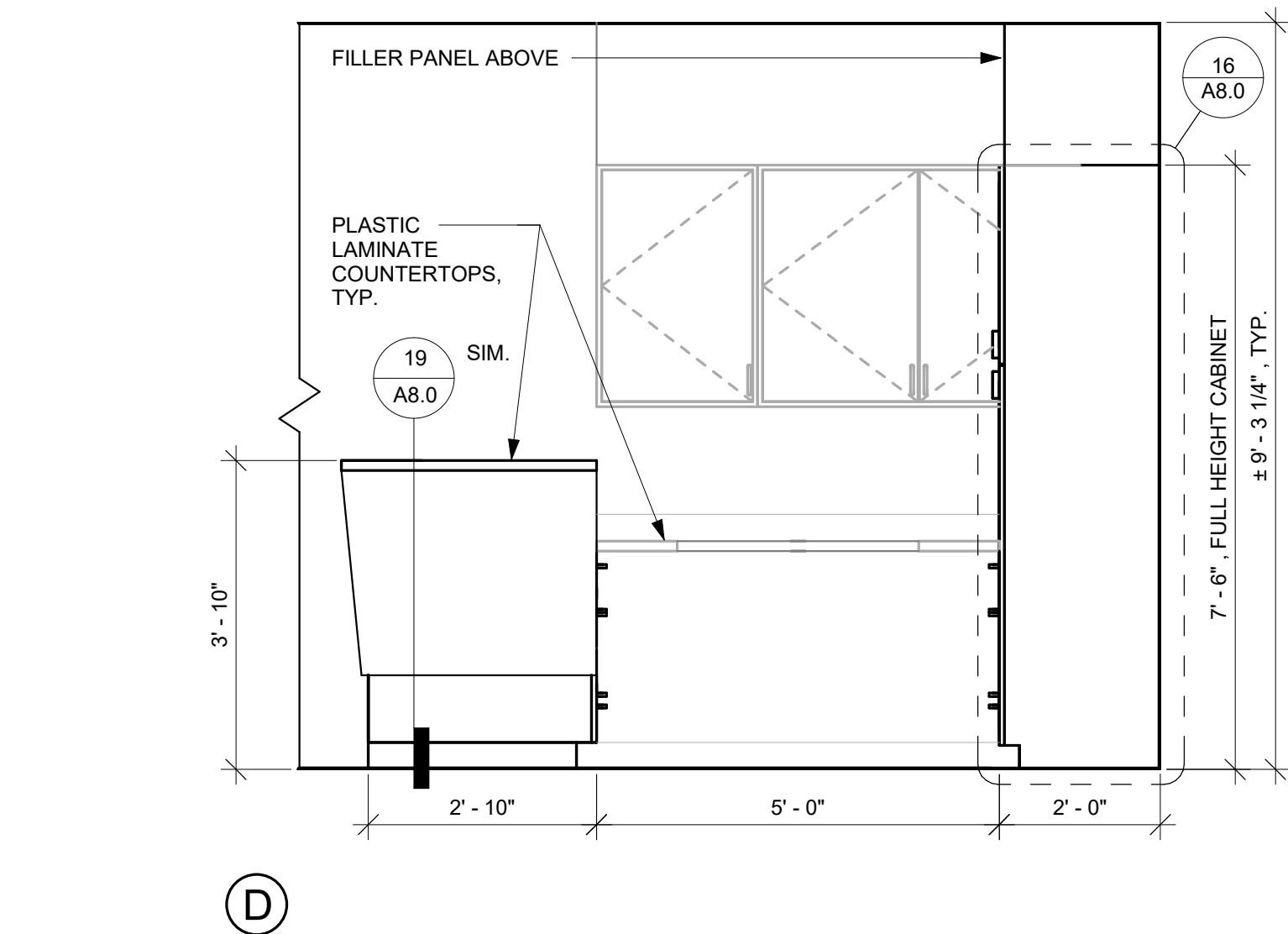
REVISIONS

NO.	DESCRIPTION	DATE

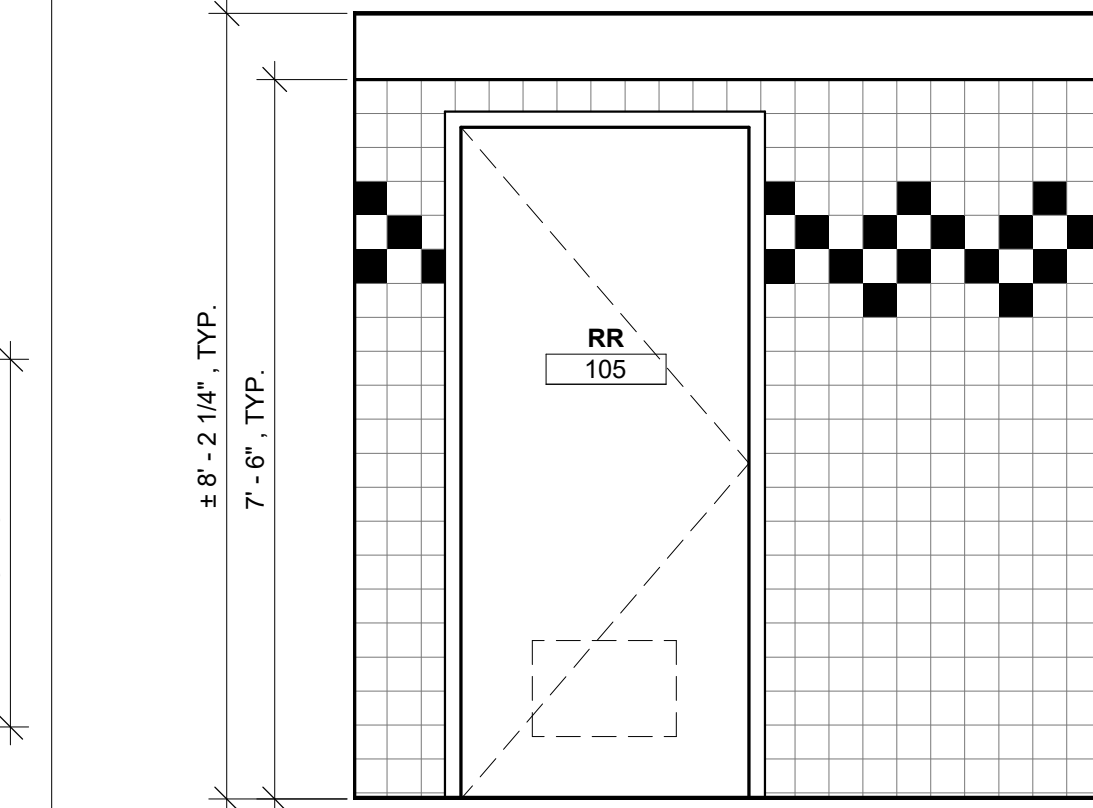
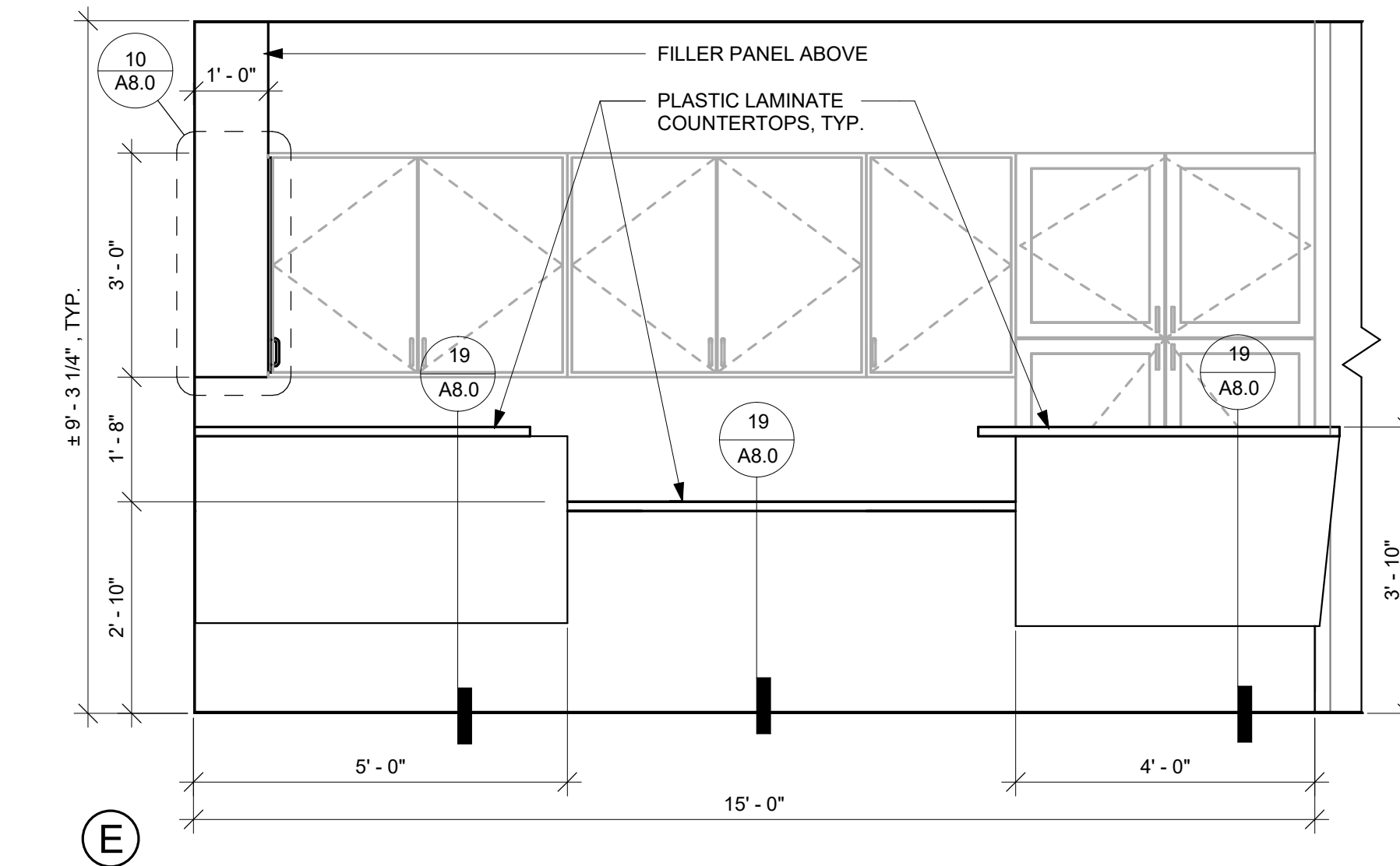
DATE: December 30, 2022

DEMO & NEW FLOOR PLANS & SCHEDULES

A2.1



2 ENLARGED PLAN & ELEVATIONS - ADMIN / RECEPTION
1/2" = 1'-0"



1 EAST WEST
ENLARGED PLAN & ELEVATIONS - STAFF RESTROOM & NURSE
1/2" = 1'-0"

GENERAL NOTES: (RESTROOM)

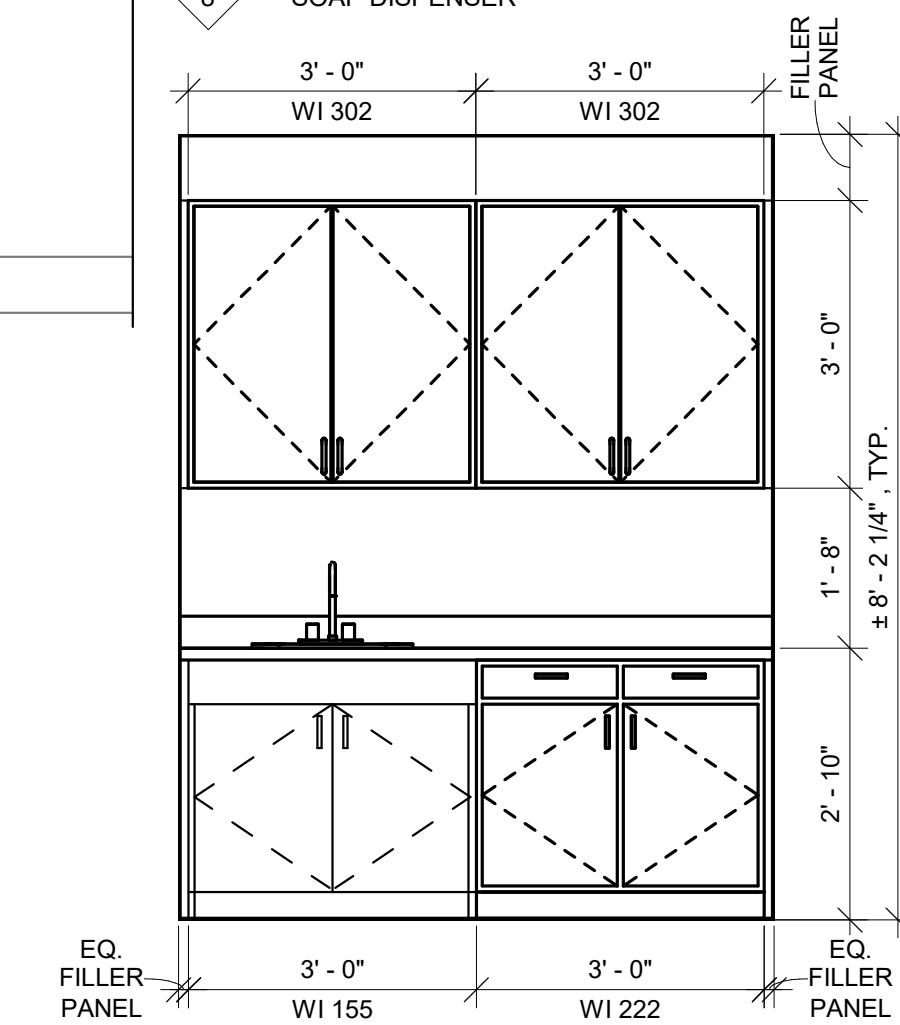
THESE SHEET NOTES APPLY TO THIS SHEET ONLY

1. SEE DETAIL 5/00.1 FOR MOUNTING HEIGHT OF TOILET ROOM FIXTURES AND ACCESSORIES.
2. SEE FINISH SCHEDULE AND DETAIL 12/a8.40 FOR ACCENT TILES AT CERAMIC TILES.
3. WALL BASE PER 11/a8.42
4. ALL TOILET ROOM ACCESSORIES SHOWN HERE ARE CFCI (CONTRACTOR FURNISHED, CONTRACTOR INSTALLED).
5. SLOPE FLOOR @ RESTROOMS TOWARDS FLOOR DRAIN.
6. FLOOR NOT TO EXCEED 2% IN ANY DIRECTION.

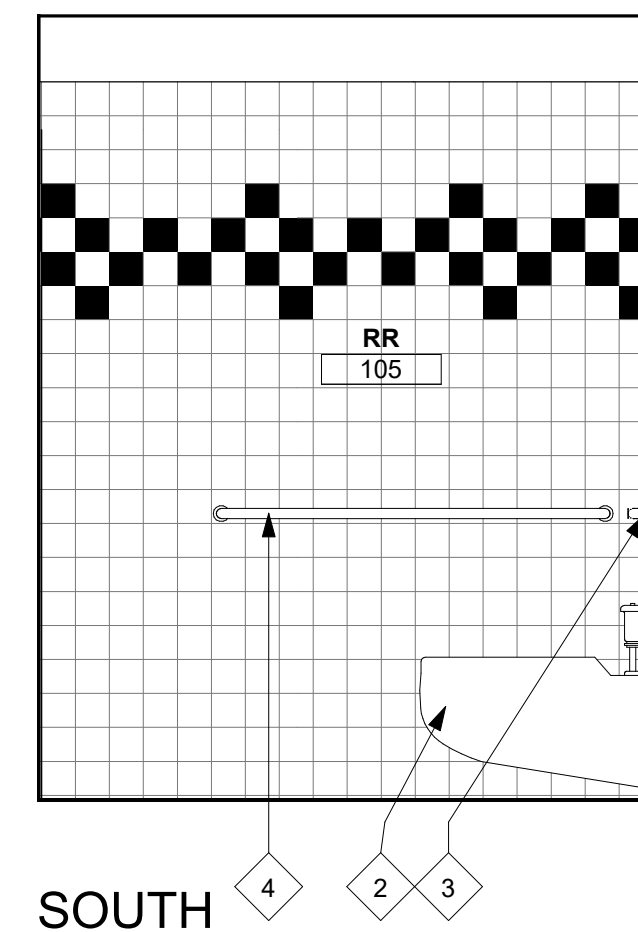
KEY NOTES: (RESTROOM)

THESE KEYNOTES APPLY TO THIS SHEET ONLY

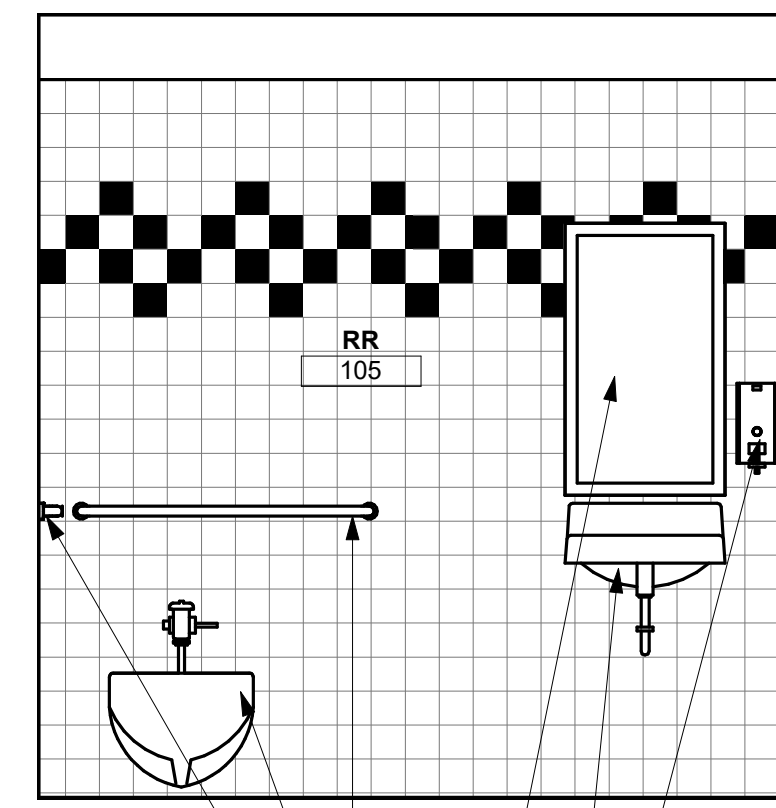
- | | |
|---|---|
| 1 | LAVATORY - SEE PLUMBING DRAWINGS |
| 2 | WATER CLOSET - SEE PLUMBING DRAWINGS |
| 3 | 36" GRAB BAR - SEE DETAIL 17/A8.0 FOR MOUNTING & DETAIL 5/A8.2 FOR TYPICAL MOUNTING HEIGHTS |
| 4 | 42" GRAB BAR - SEE DETAIL 17/A8.0 FOR MOUNTING & DETAIL 5/A8.2 FOR TYPICAL MOUNTING HEIGHTS |
| 5 | TOILET SEAT COVER DISPENSER |
| 6 | TOILET TISSUE DISPENSER |
| 7 | MIRROR - 24"W x 30"H |
| 8 | SOAP DISPENSER |



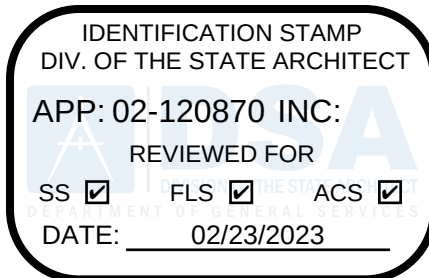
NURSE



SOUTH



WEST



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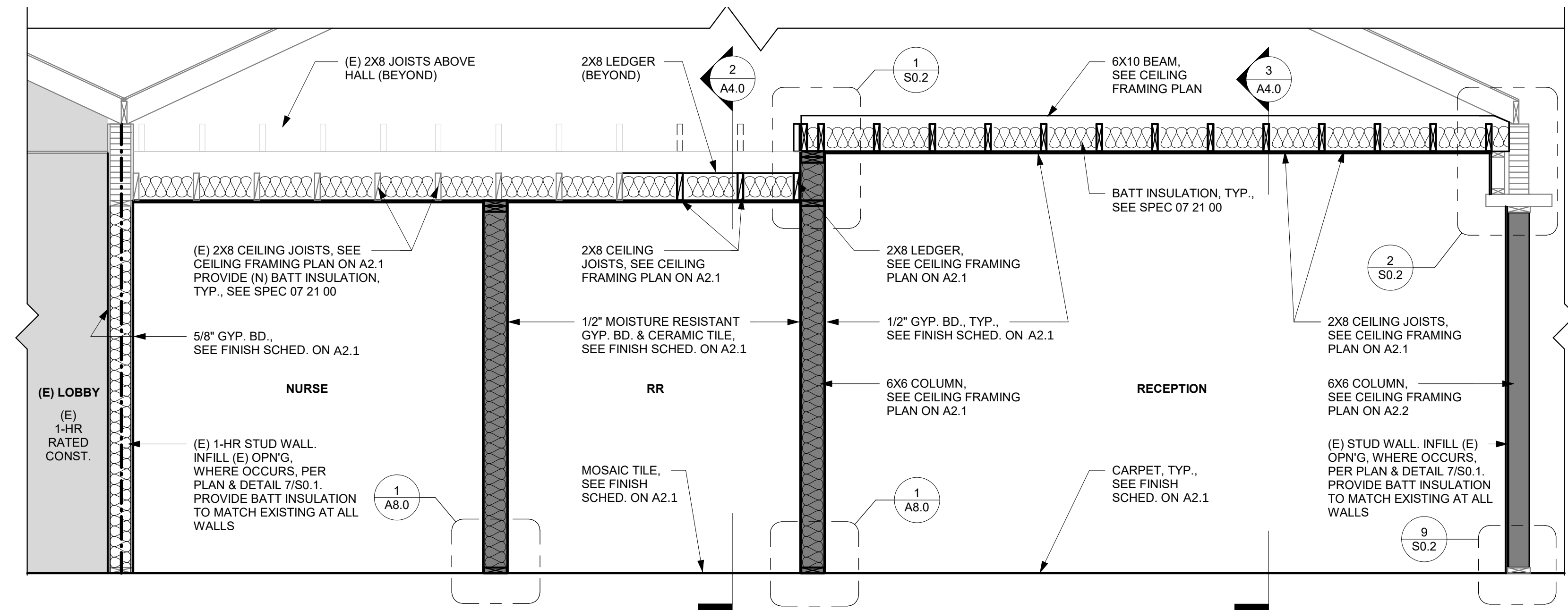
REVISIONS

DATE December 30, 2022

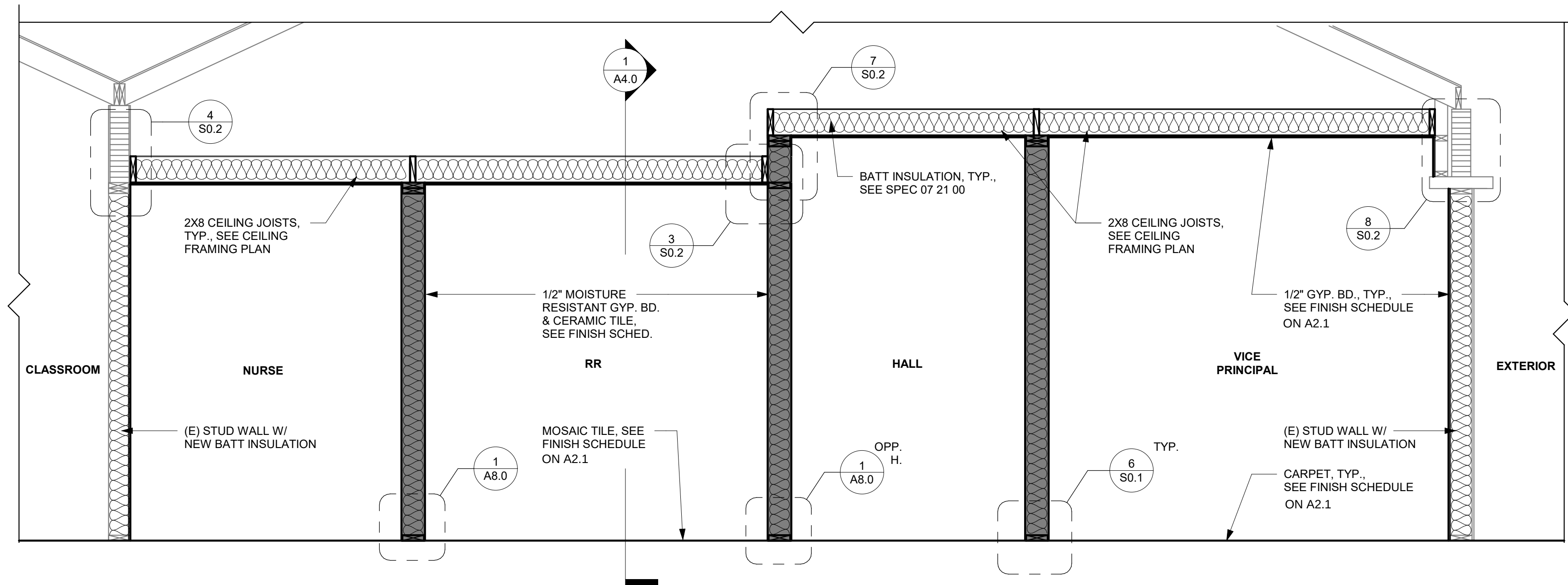
ENLARGED PLANS & ELEVATIONS

A3.0

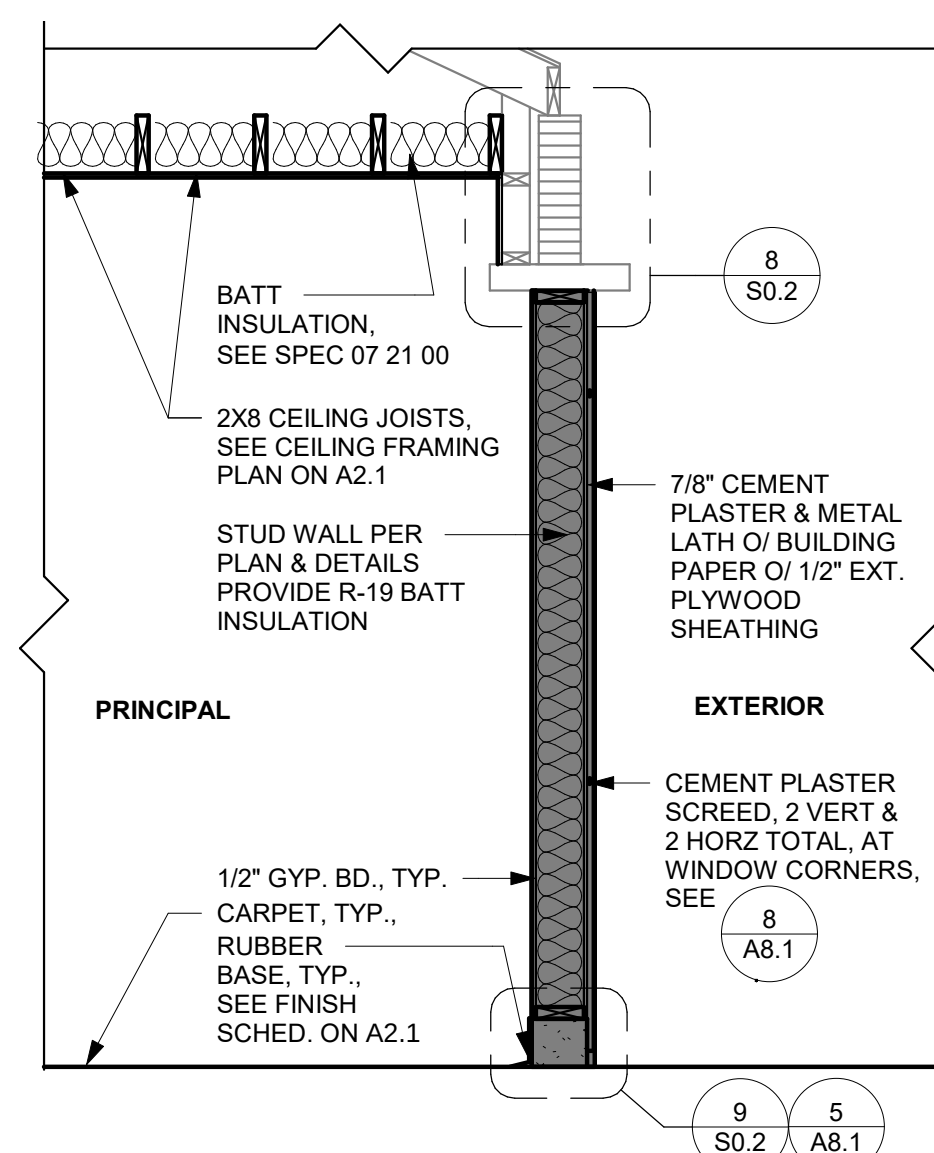
JOB NO. 2149.00



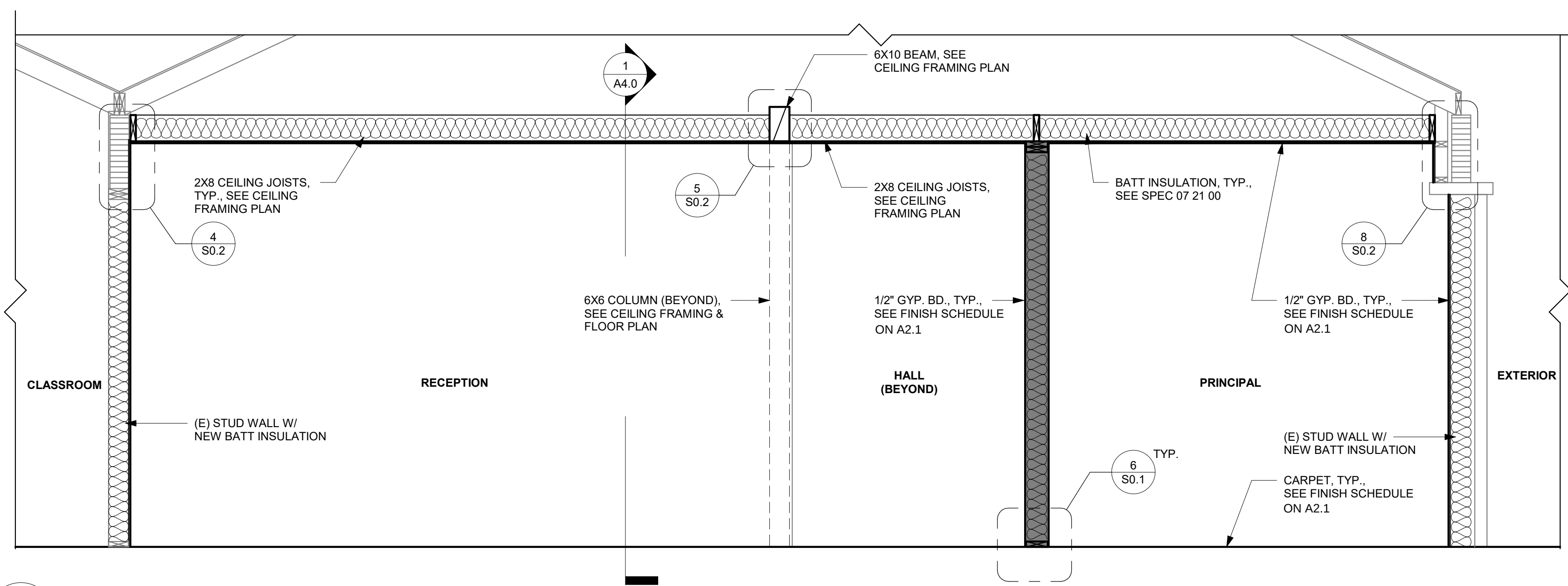
1 BUILDING/WALL SECTION
1/2" = 1'-0"



2 BUILDING/WALL SECTION
1/2" = 1'-0"



4 EXTERIOR WALL @ INFILL
1/2" = 1'-0"



3 BUILDING/WALL SECTION
1/2" = 1'-0"

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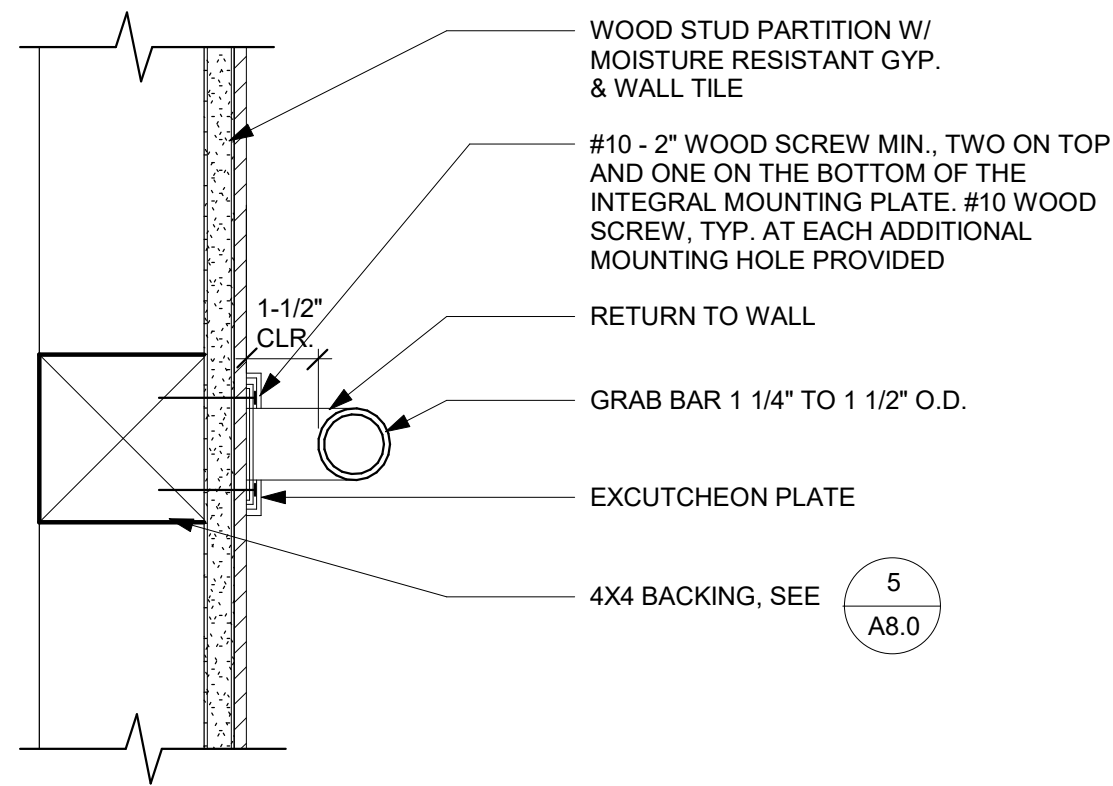
REVISIONS

DATE: December 30, 2022

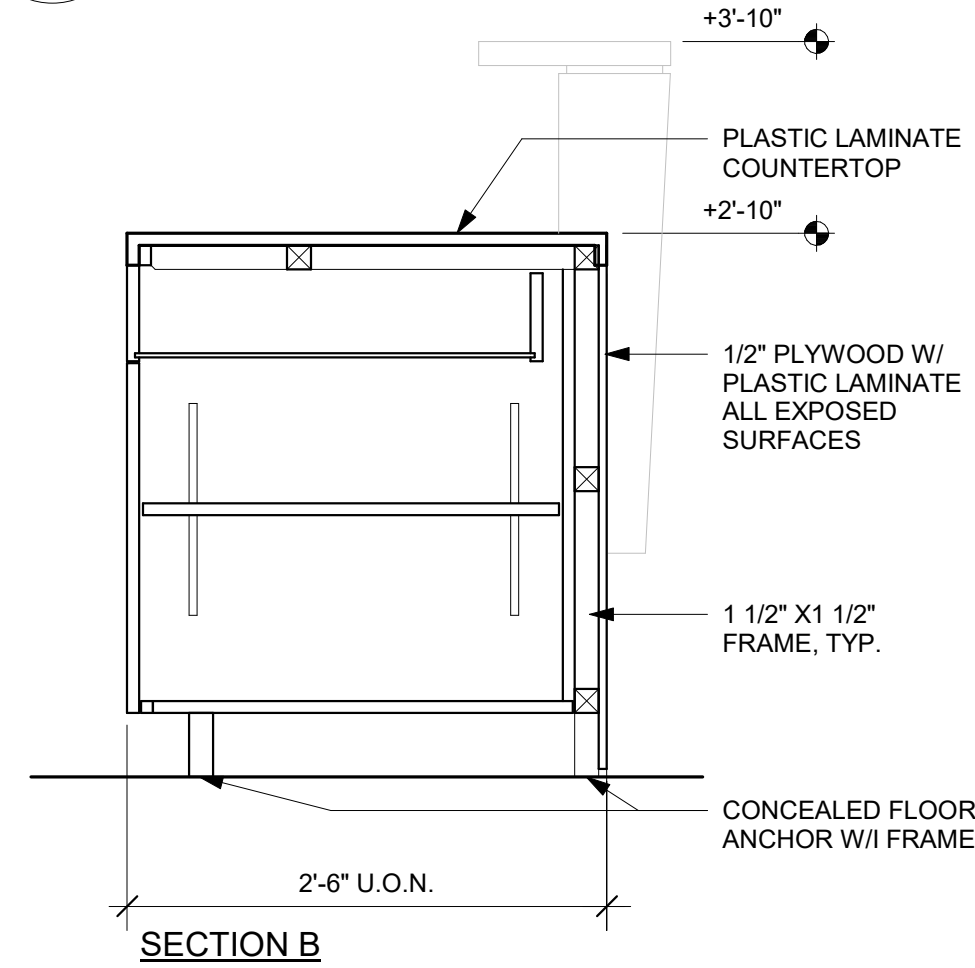
PARTIAL BUILDING
& WALL SECTIONS

A4.0

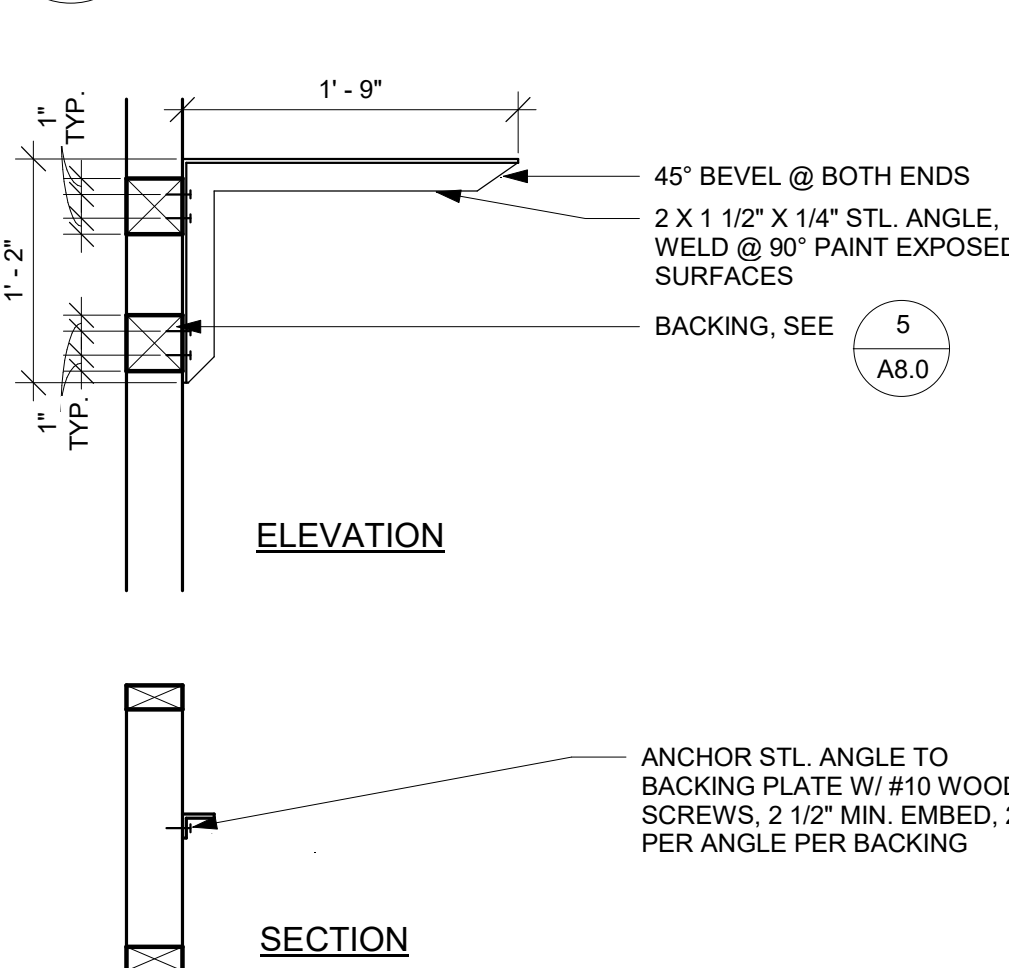
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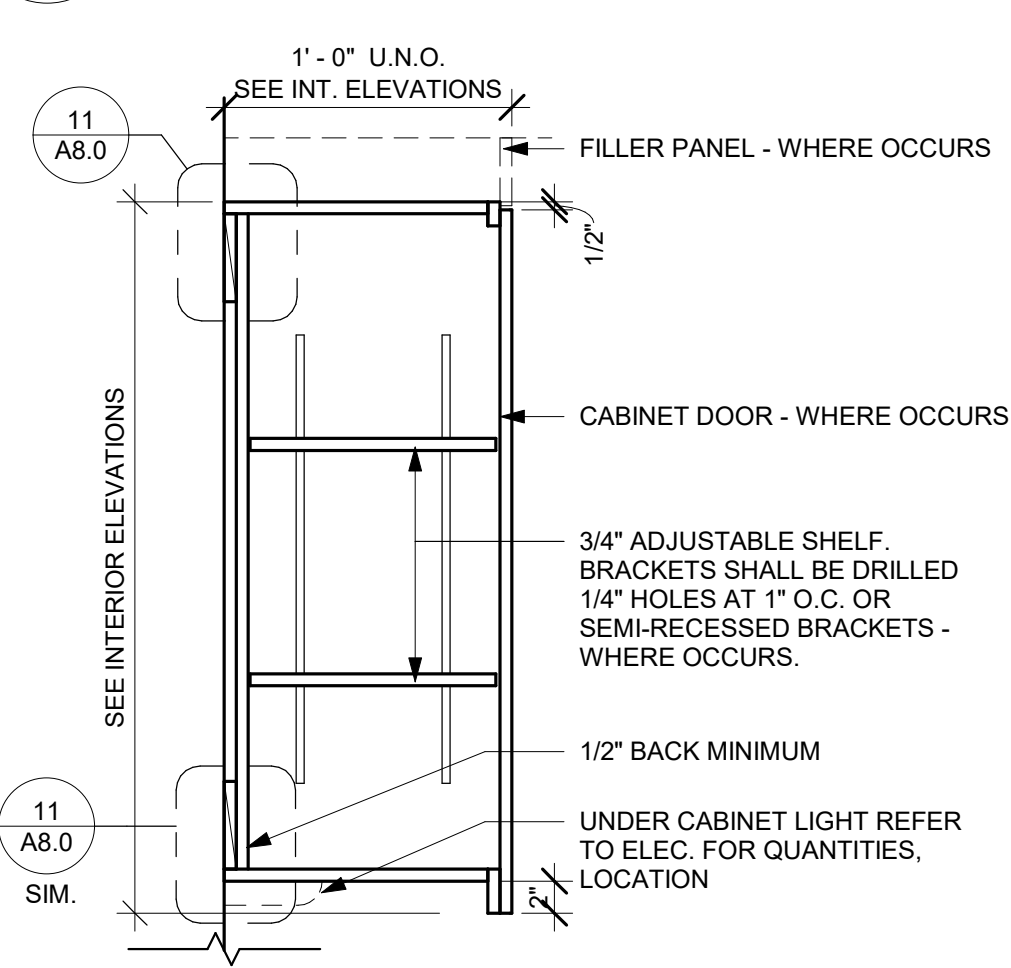
17 GRAB BAR MOUNTING
3" = 1'-0"



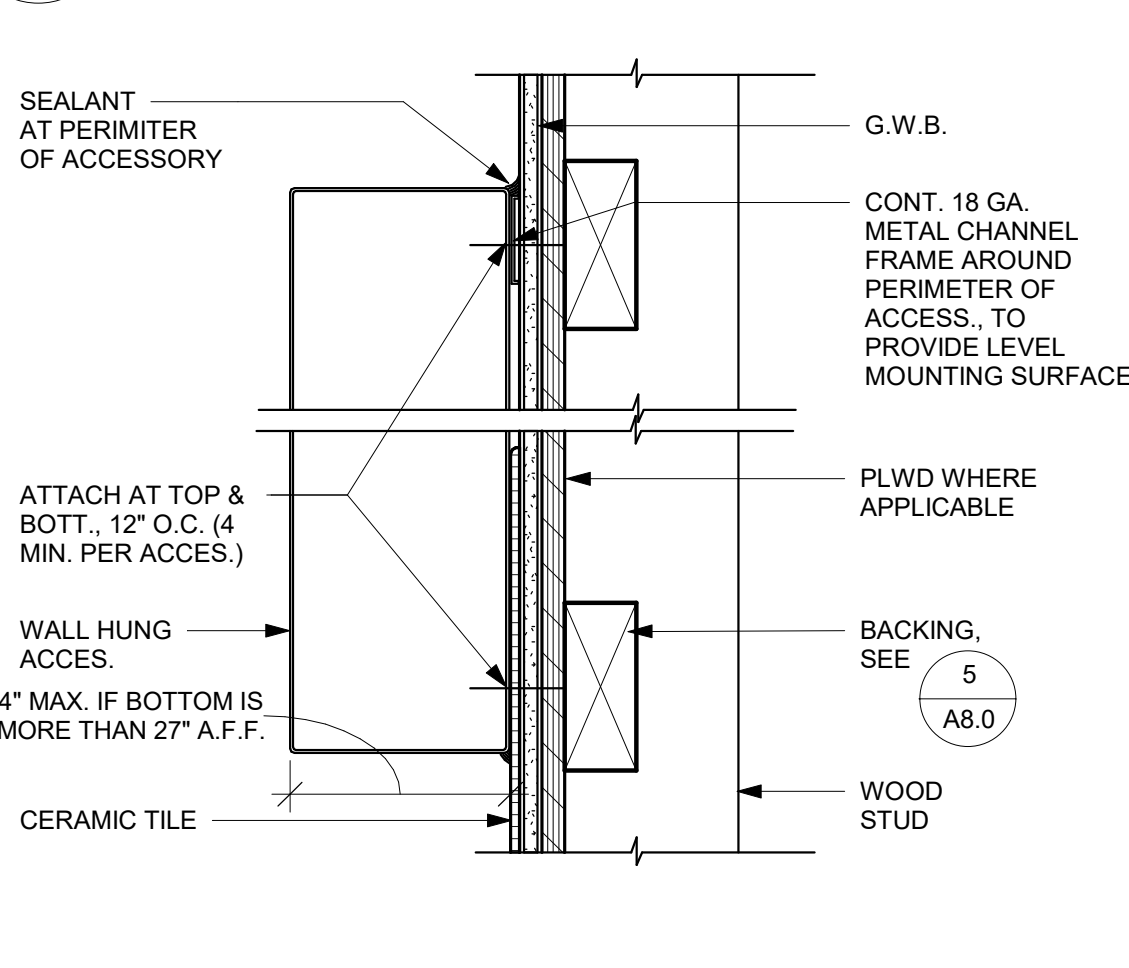
13 SECTION AT COUNTER
1" = 1'-0"



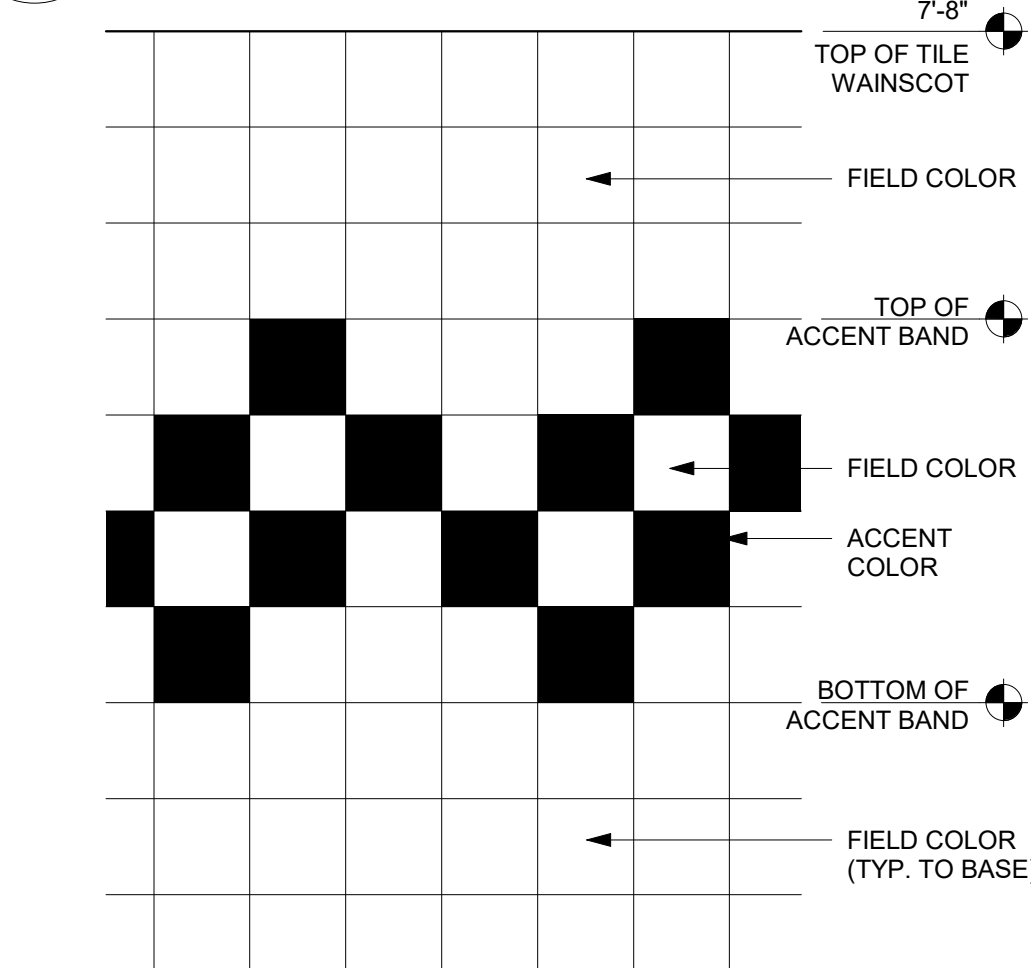
9 BASE CABINET DETAIL
1" = 1'-0"



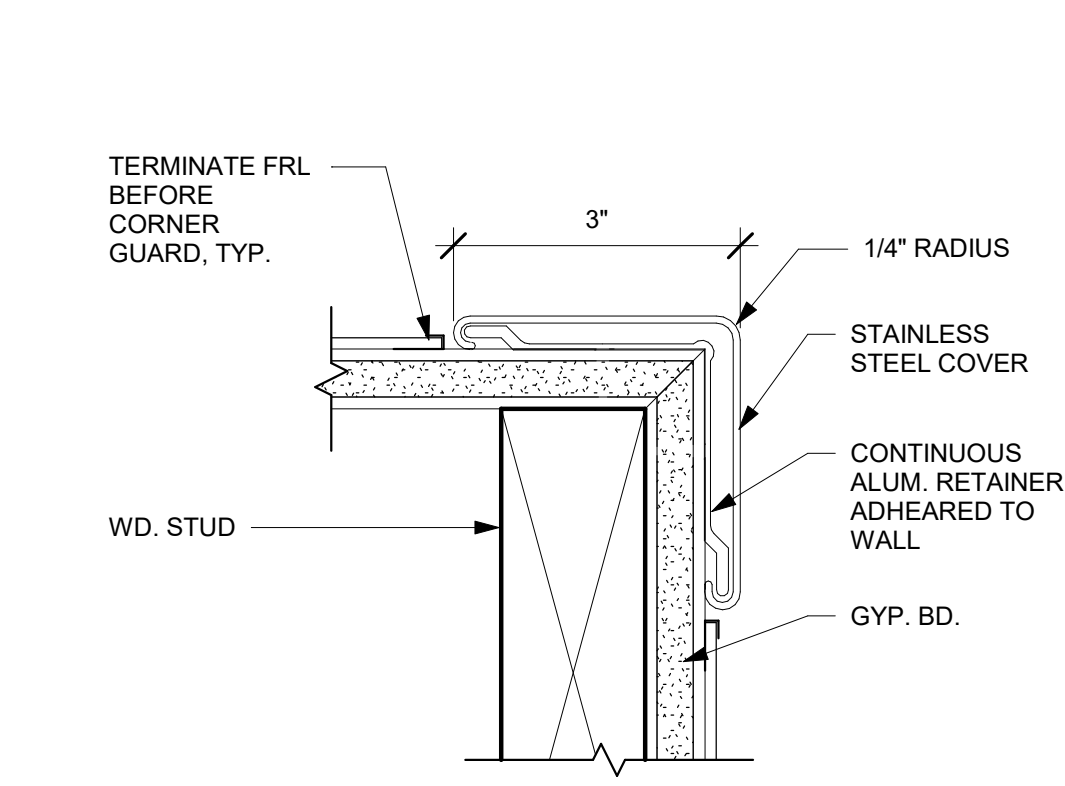
5 BACKING PLATE
1" = 1'-0"



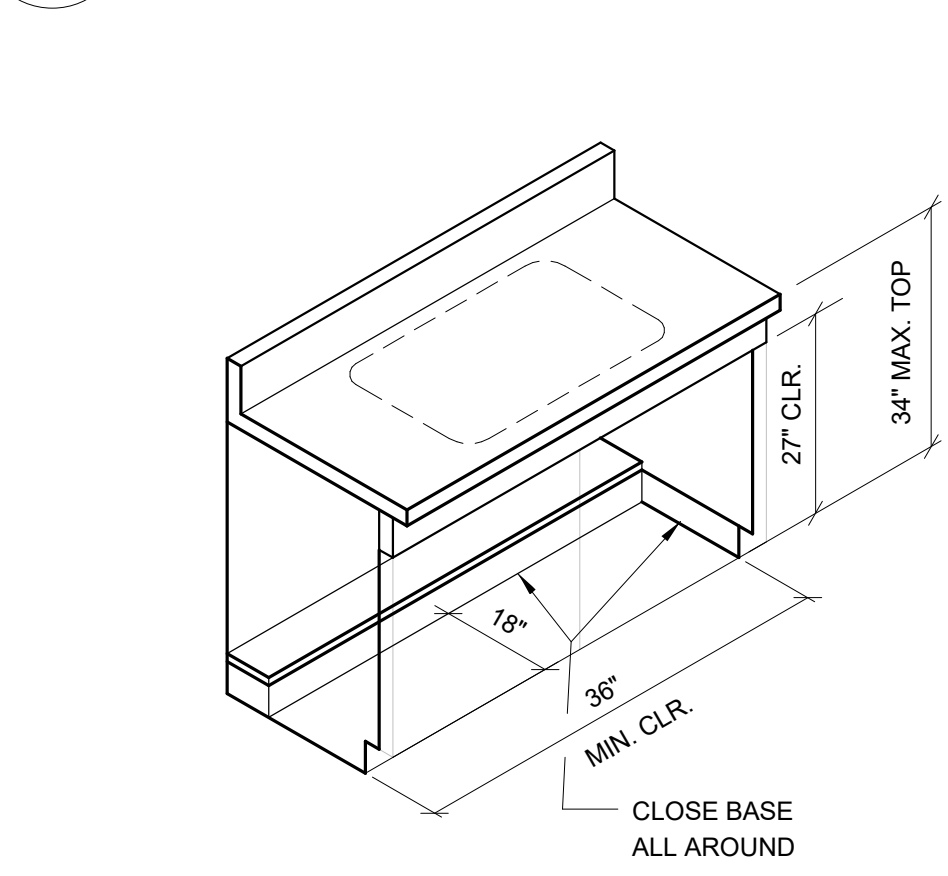
1 FLOOR/WALL/BASE-TOILET RMS
3" = 1'-0"



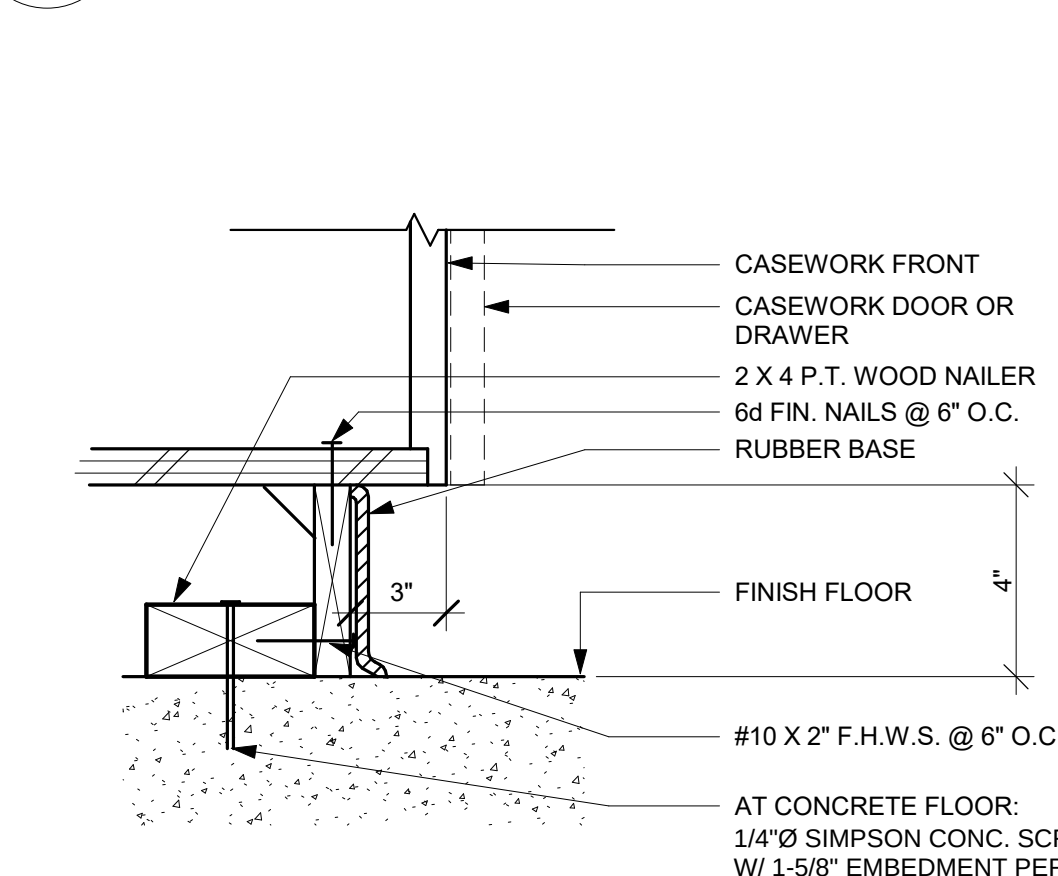
2 TILE ACCENT BAND
1 1/2" = 1'-0"



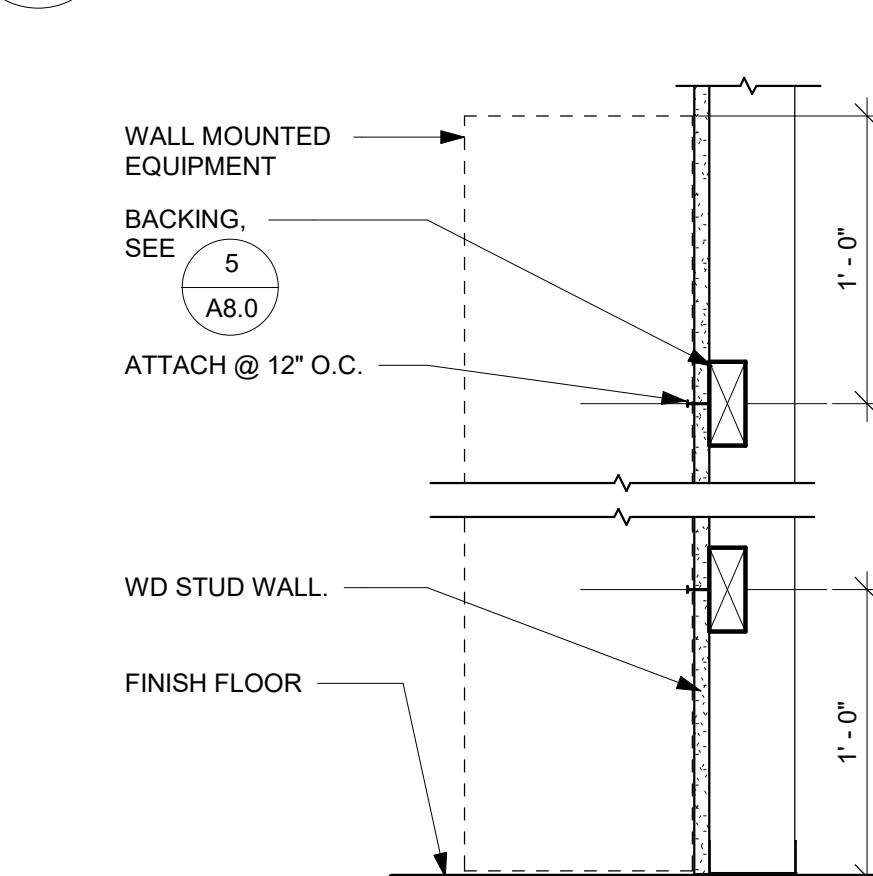
19 RECEPTION CASEWORK SECTIONS
1" = 1'-0"



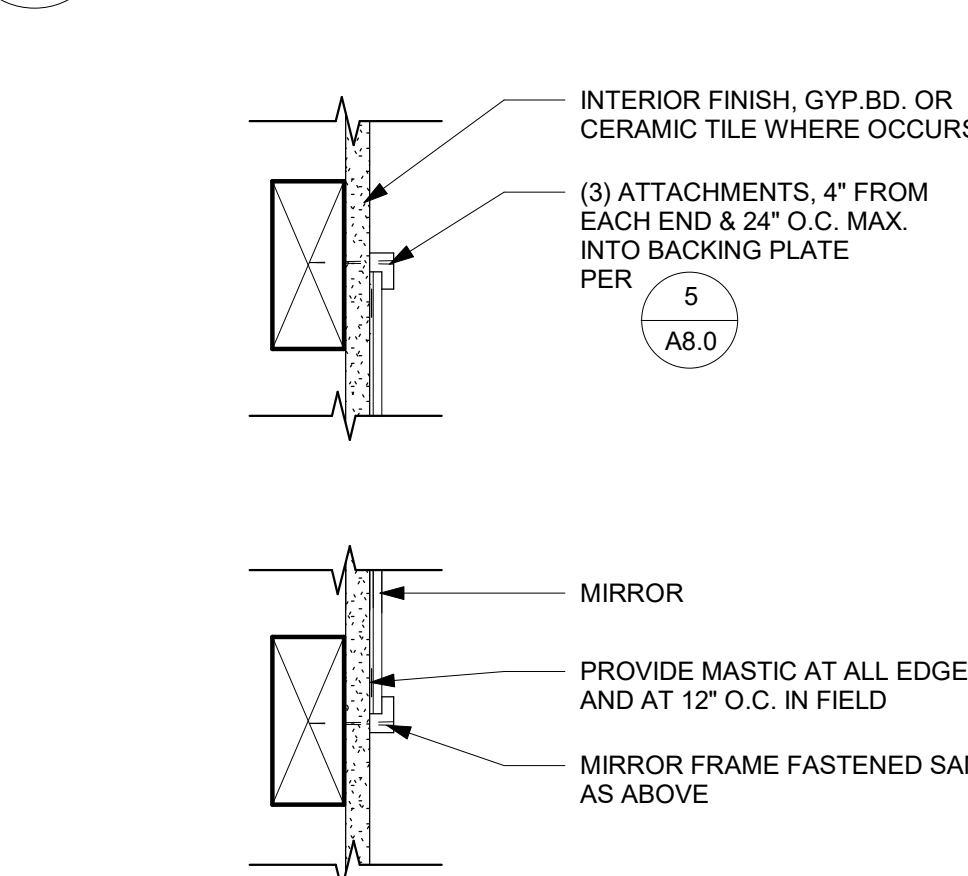
11 BASE/WALL CABINET ANCHOR
3" = 1'-0"



7 SIGN MOUNTING @ GLAZING
3" = 1'-0"



3 CORNER GUARD
6" = 1'-0"



20 ACCESSIBLE SINK BASE
1/2" = 1'-0"



12 BASE CABINET ANCHOR
3" = 1'-0"



8 WALL MOUNTED EQUIP. ATTACHMENT
1 1/2" = 1'-0"



4 MIRROR ATTACHMENT
3" = 1'-0"



12 FULL HEIGHT CABINET
1" = 1'-0"



11 BASE/WALL CABINET ANCHOR
3" = 1'-0"



7 SIGN MOUNTING @ GLAZING
3" = 1'-0"



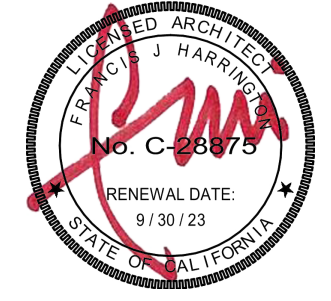
3 CORNER GUARD
6" = 1'-0"



IDENTIFICATION STAMP
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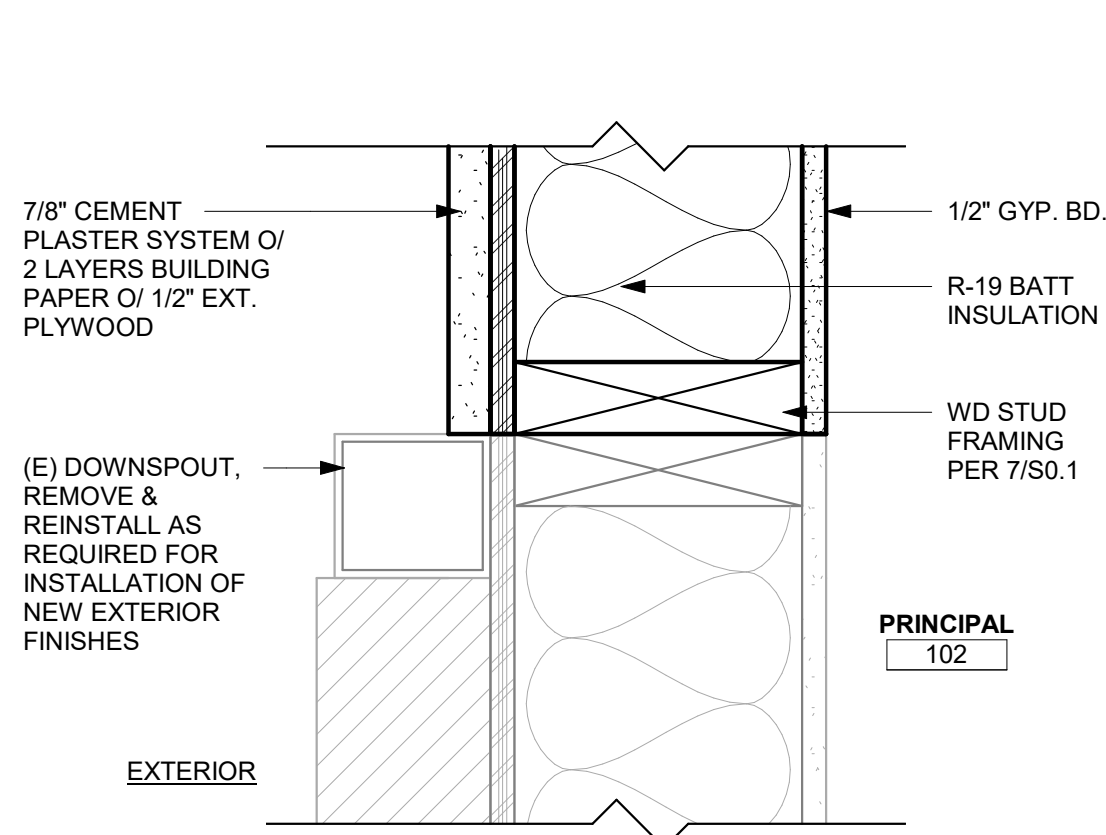
NO.	DESCRIPTION

DATE: December 30, 2022

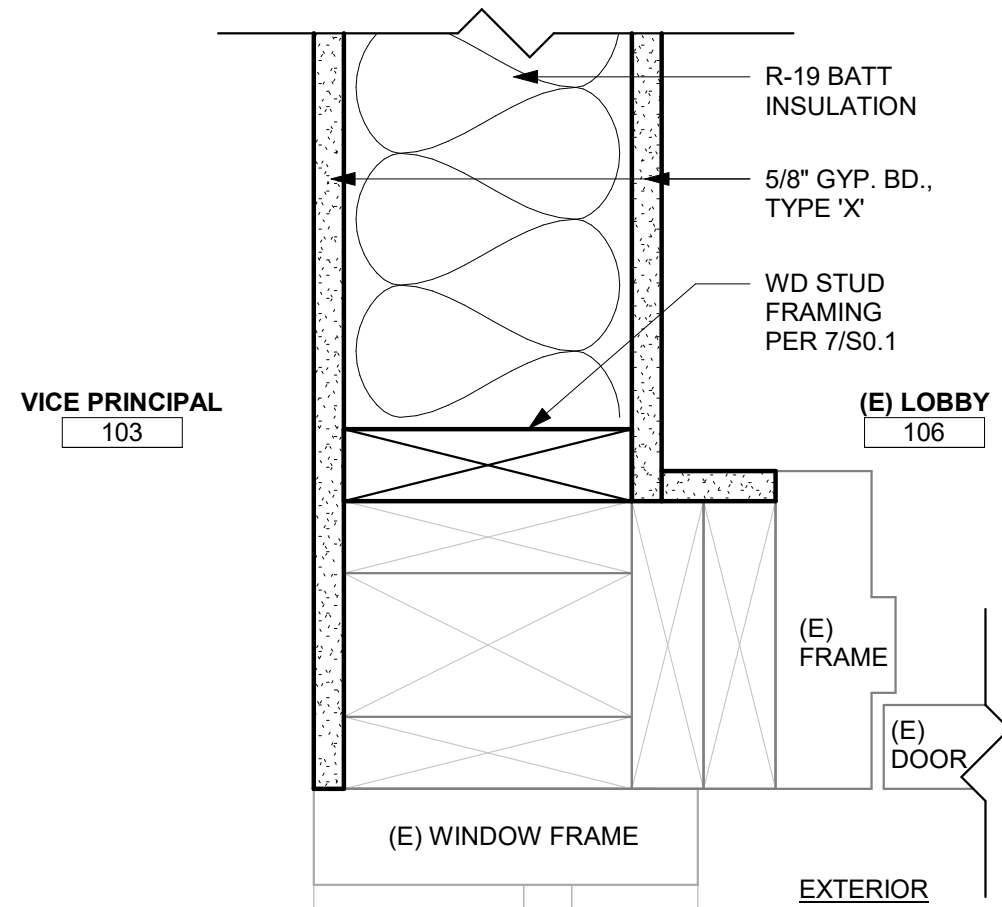
INTERIOR
DETAILS

A8.0

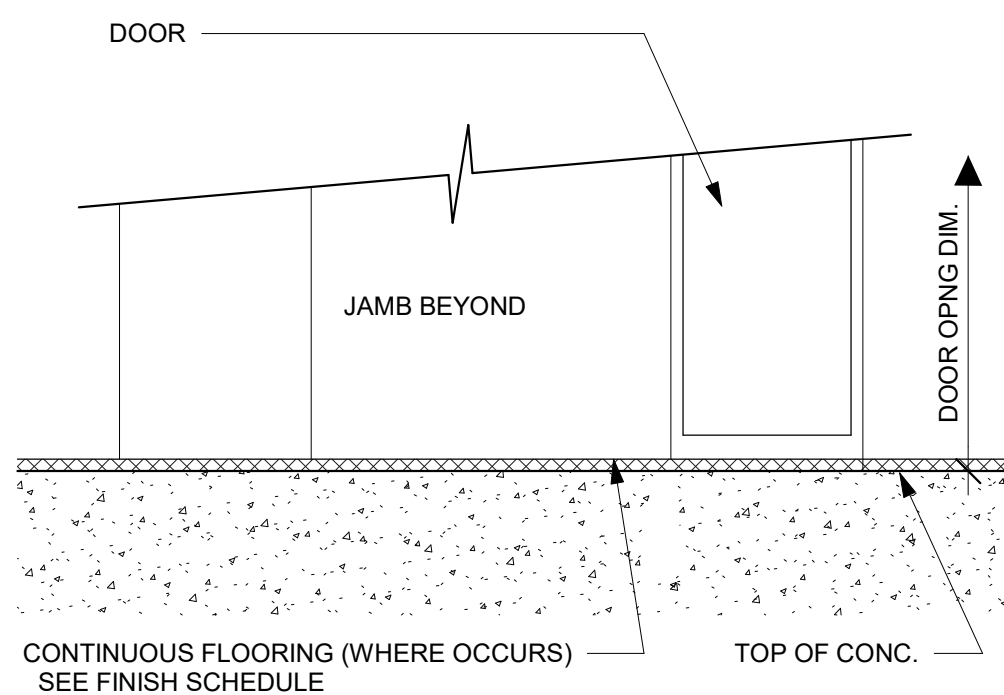
JOB NO. 2149.00



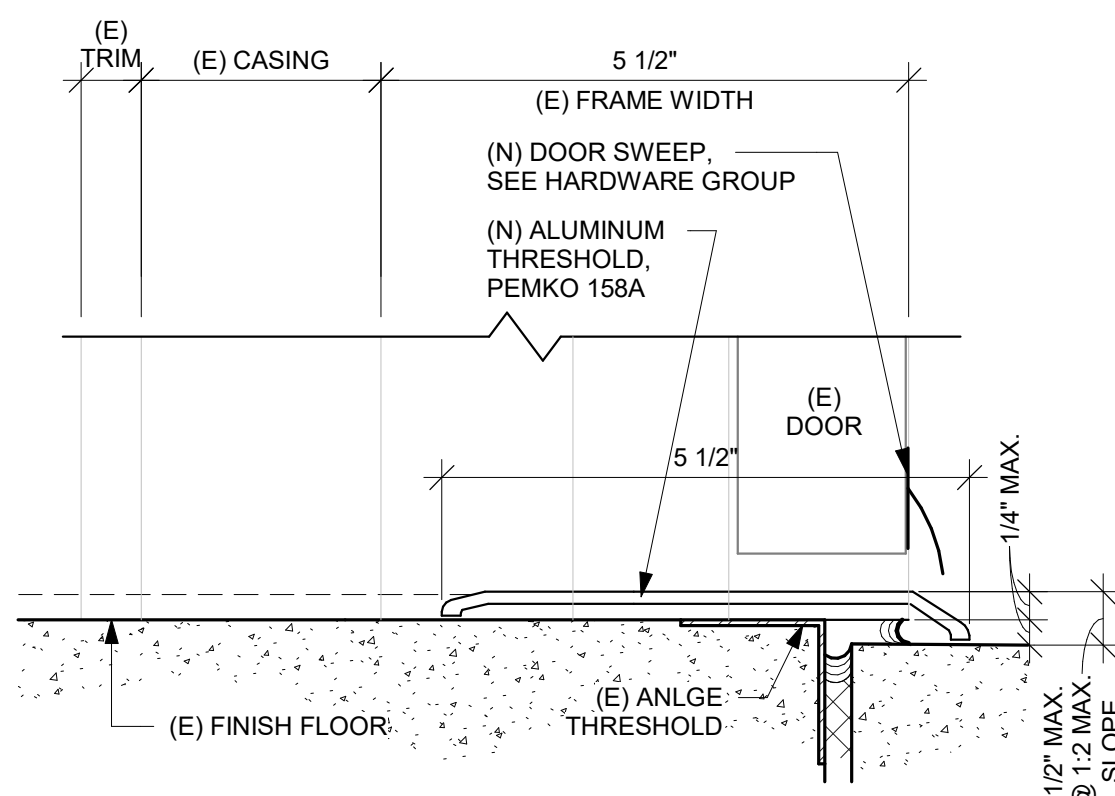
9 PLAN DETAIL - EXTERIOR
3" = 1'-0"



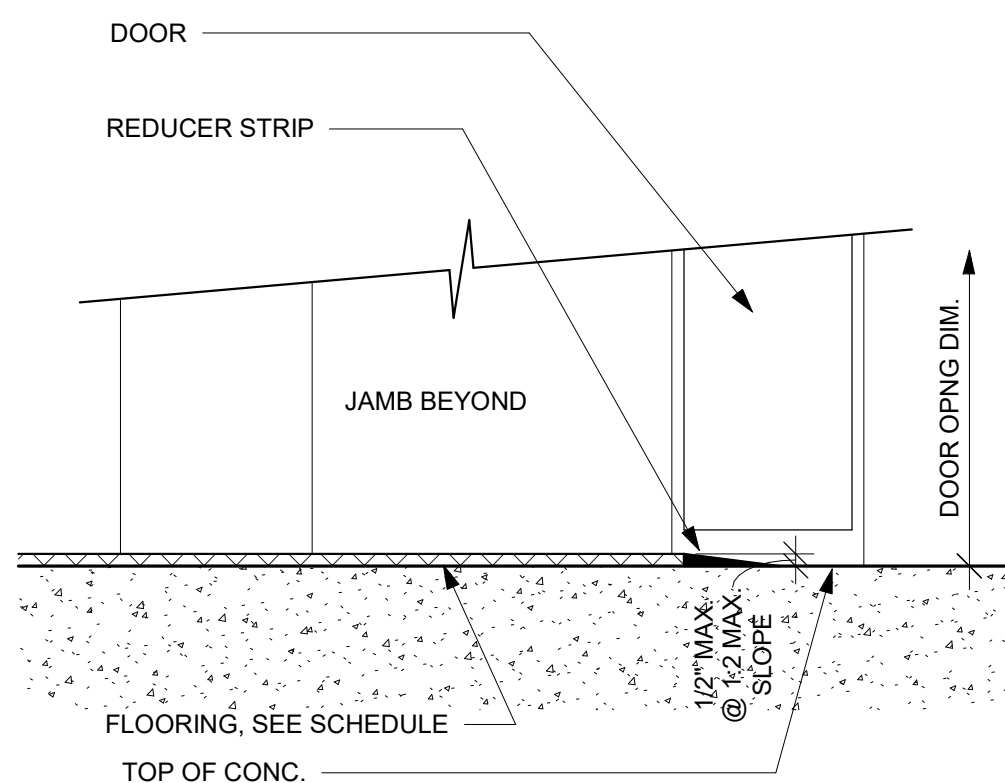
10 PLAN DETAIL - INTERIOR
3" = 1'-0"



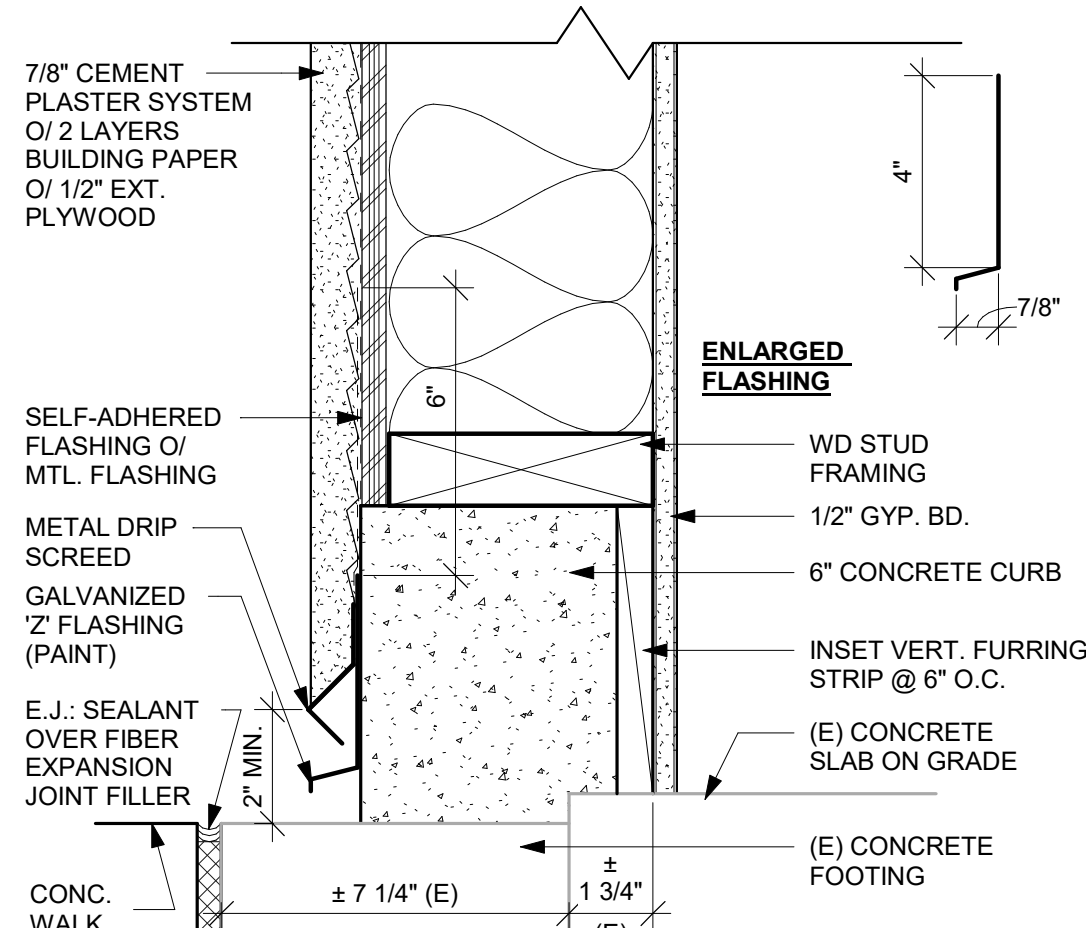
15 INTERIOR DOOR SILL AT CONTINUOUS FLOORING
6" = 1'-0"



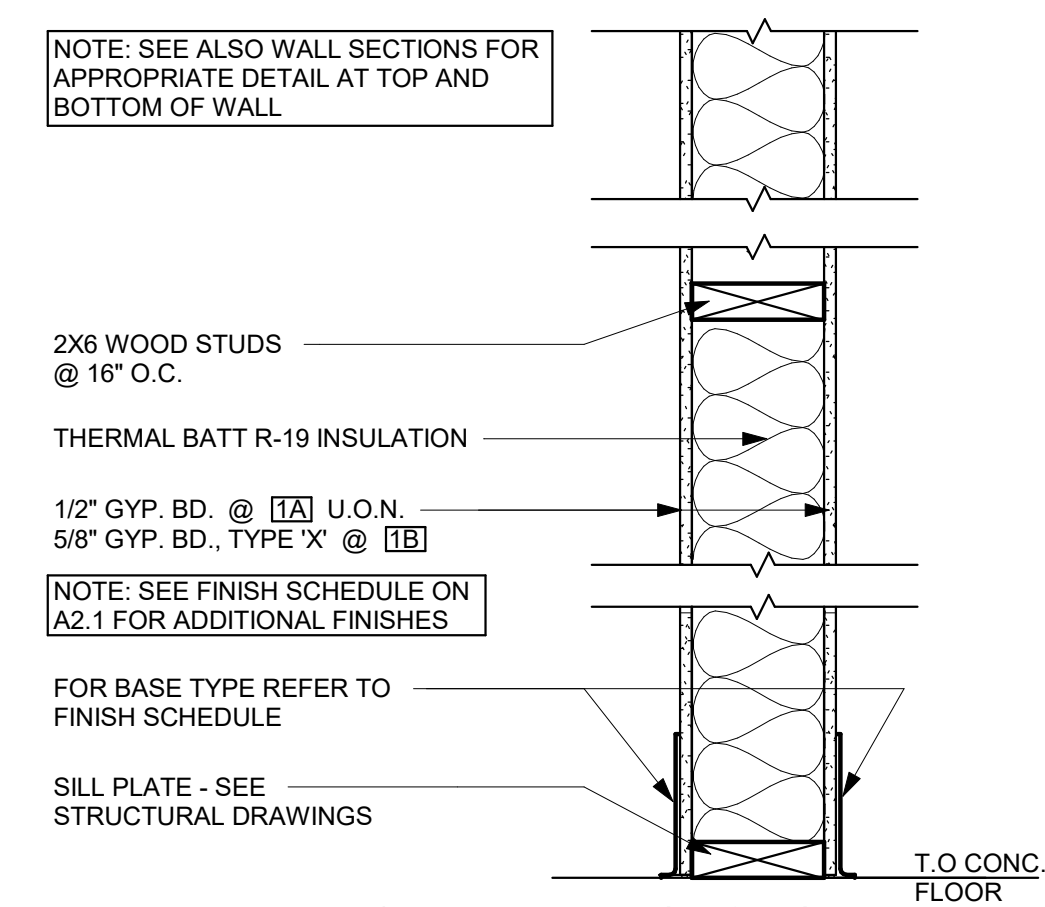
20 EXT. H.M. DOOR THRESHOLD
6" = 1'-0"



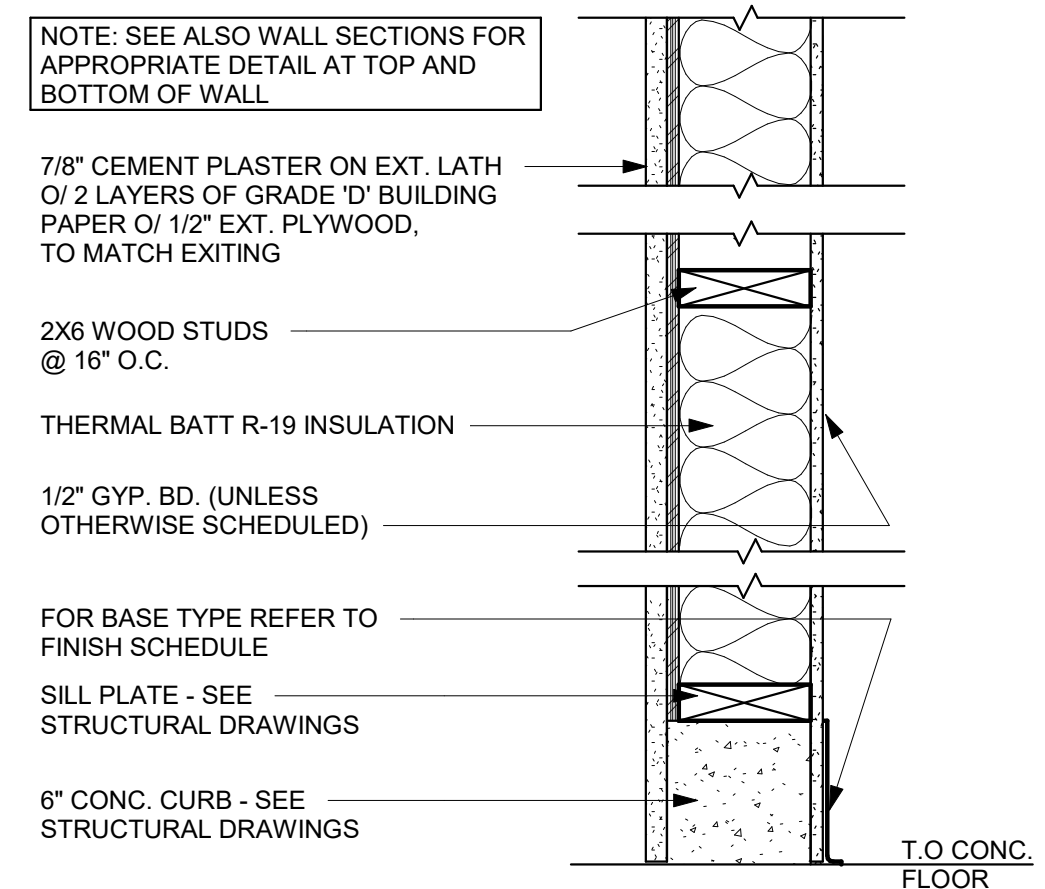
16 INTERIOR DOOR SILL AT AT FLOORING CHANGE
6" = 1'-0"



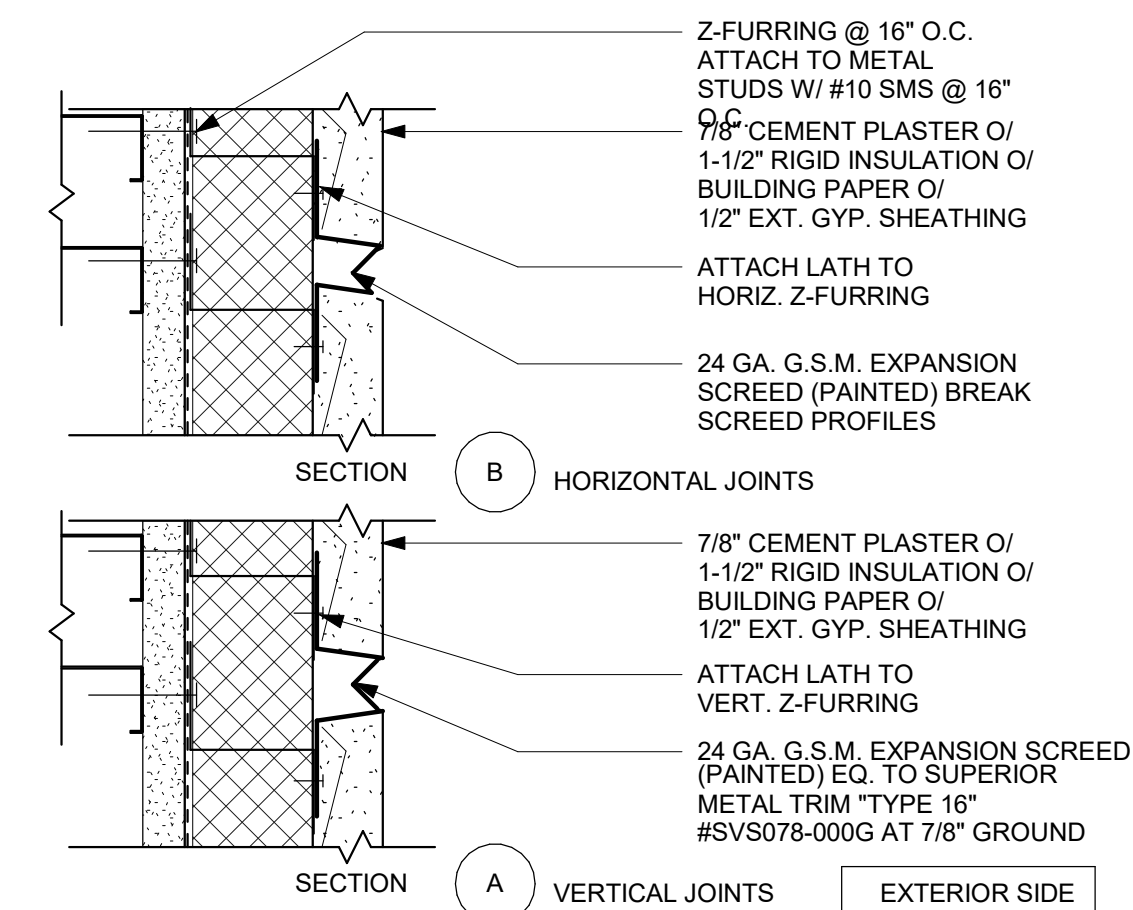
5 DRIP SCREED @ CONC. WALK
3" = 1'-0"



6 PARTITION TYPE 1 (A & B) WOOD STUD (INTERIOR)
1 1/2" = 1'-0"



7 PARTITION TYPE 2 WOOD STUD (EXTERIOR) W PLASTER
1 1/2" = 1'-0"



8 CEMENT PLASTER EXP. SCREEDS
3" = 1'-0"

DOOR GENERAL NOTES:

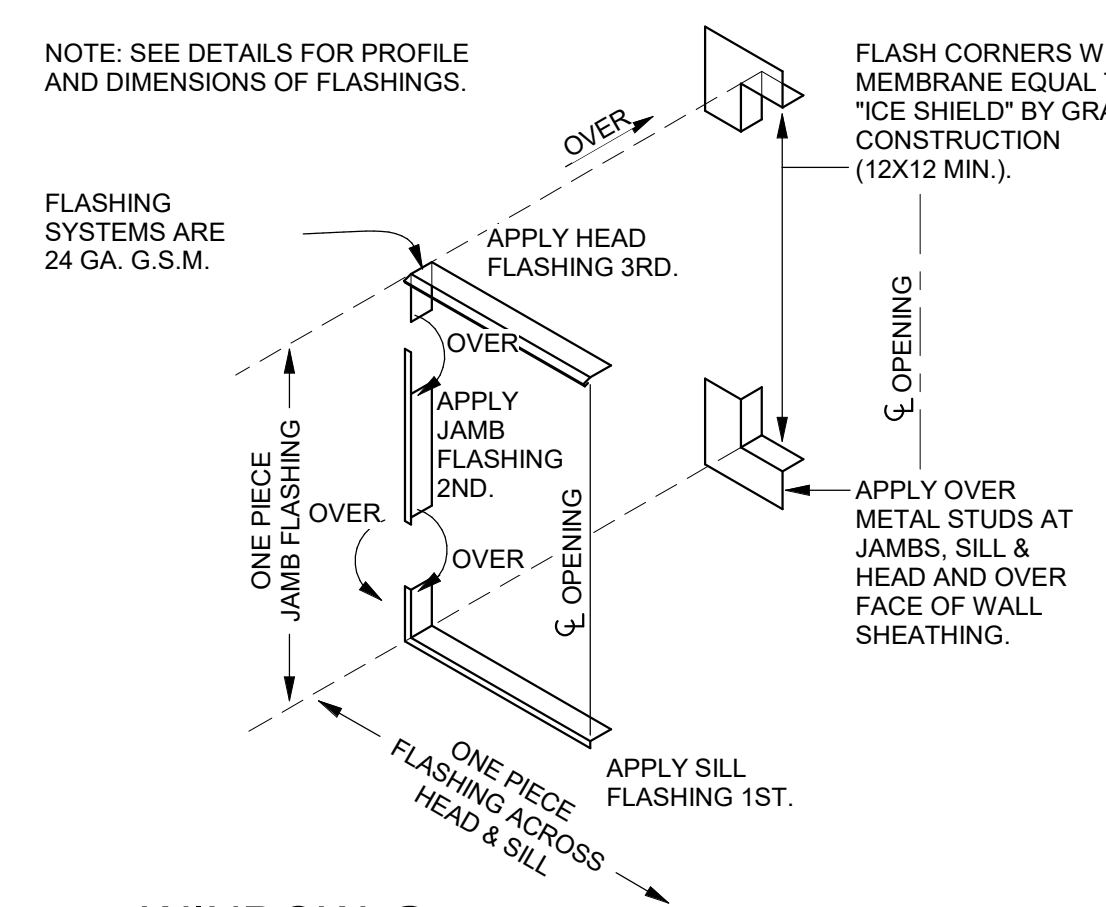
1. REFER TO SPECIFICATION SECTION 08 11 13 FOR DOOR FABRICATION REQUIREMENTS.
2. CONTRACTOR TO COORDINATE ALL FRAME THROAT DIMENSIONS WITH PARTITION TYPES SHOWN ON FLOOR PLANS.
3. COORDINATE WITH STRUCTURAL DRAWINGS FOR ALL HEAD, JAMB & SILL STUD FRAMING REQUIREMENTS.

FRAME GENERAL NOTES:

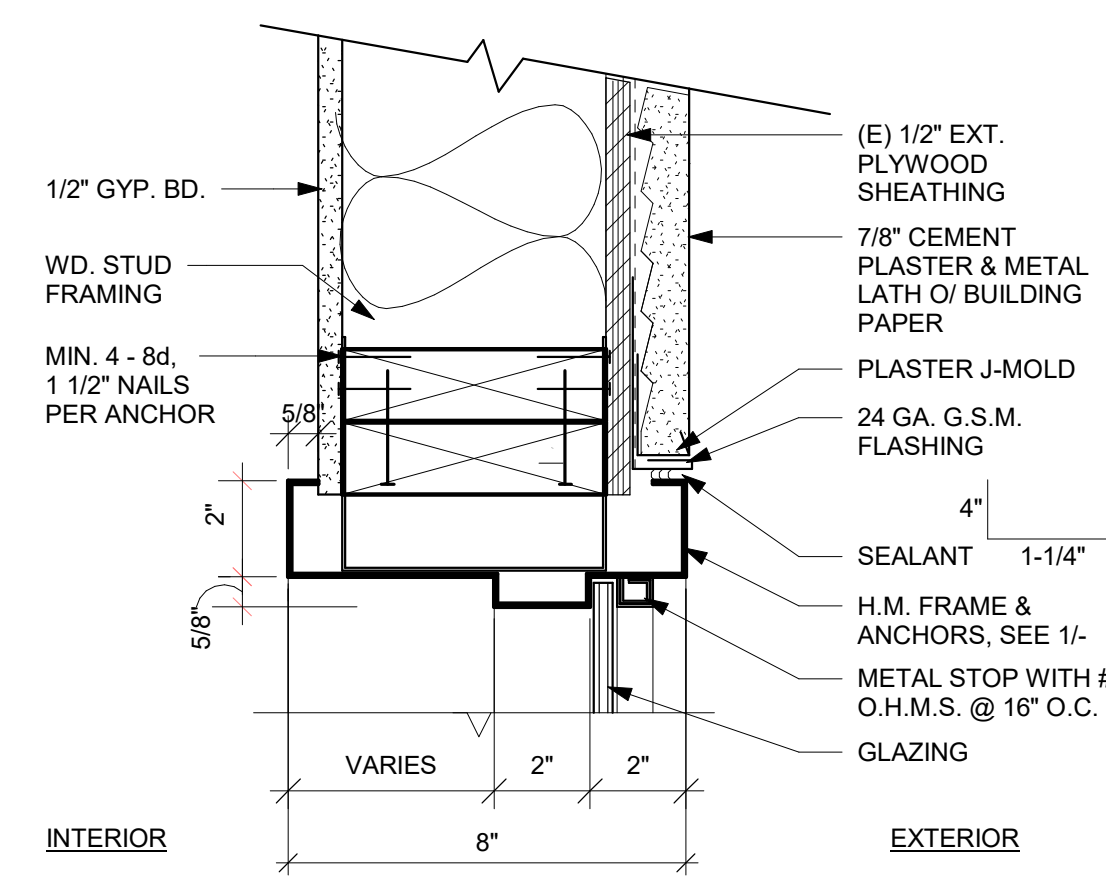
NOTES APPLICABLE FOR ALL FRAMES INSTALLED AT WOOD STUD WALLS:

1. REFER TO SPECIFICATION SECTION 08 11 13 FOR FRAME FABRICATION REQUIREMENTS, INCLUDING FLOOR & JAMB ANCHORS.

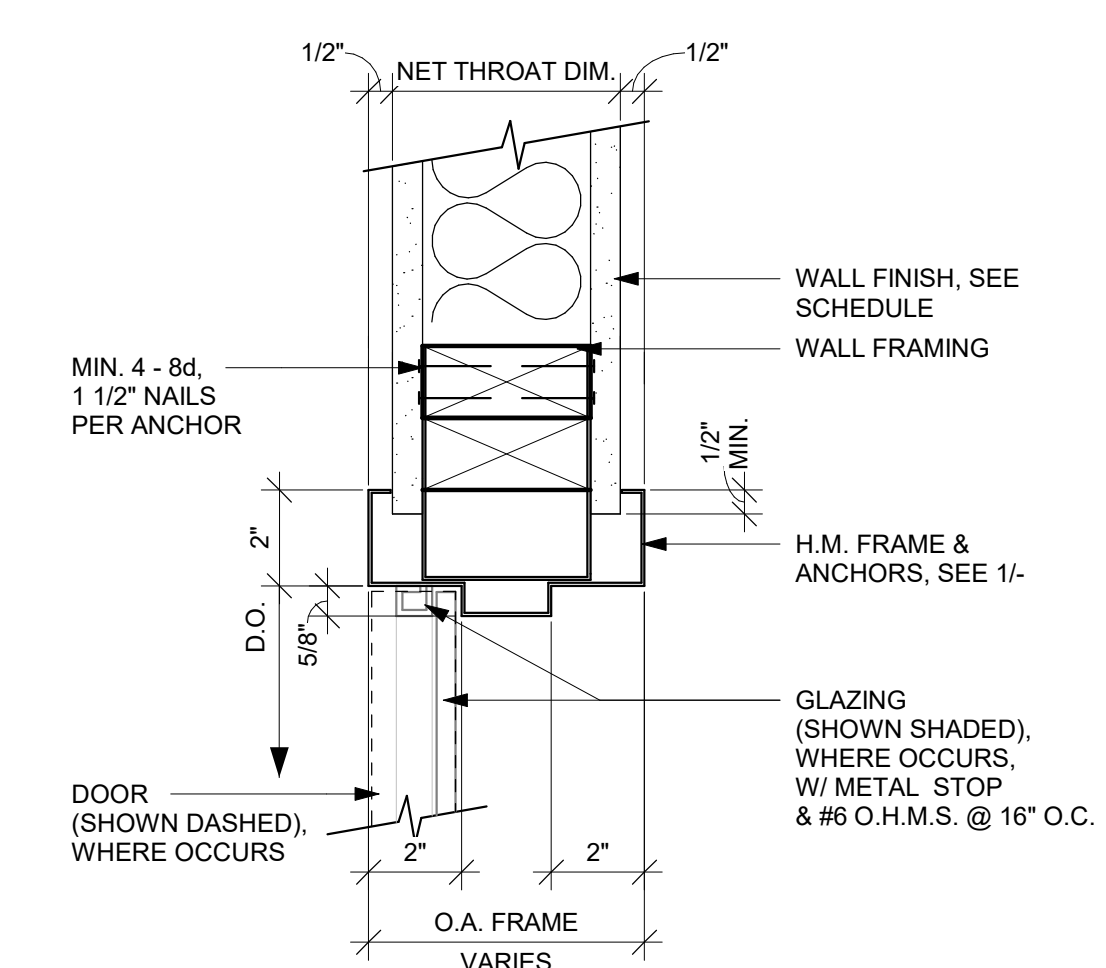
1 H.M. DOOR & FRAME GENERAL NOTES
12" = 1'-0"



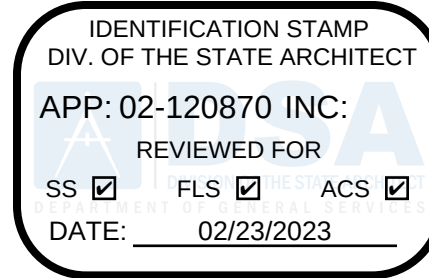
2 WINDOW @ PLASTER WALL FLASHING ASSEM. NTS



3 EXT. WINDOW FRAME DTL
3" = 1'-0"

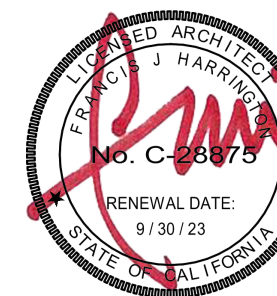


4 INT. DOOR FRAME HEAD/JAMB DETAIL
3" = 1'-0"



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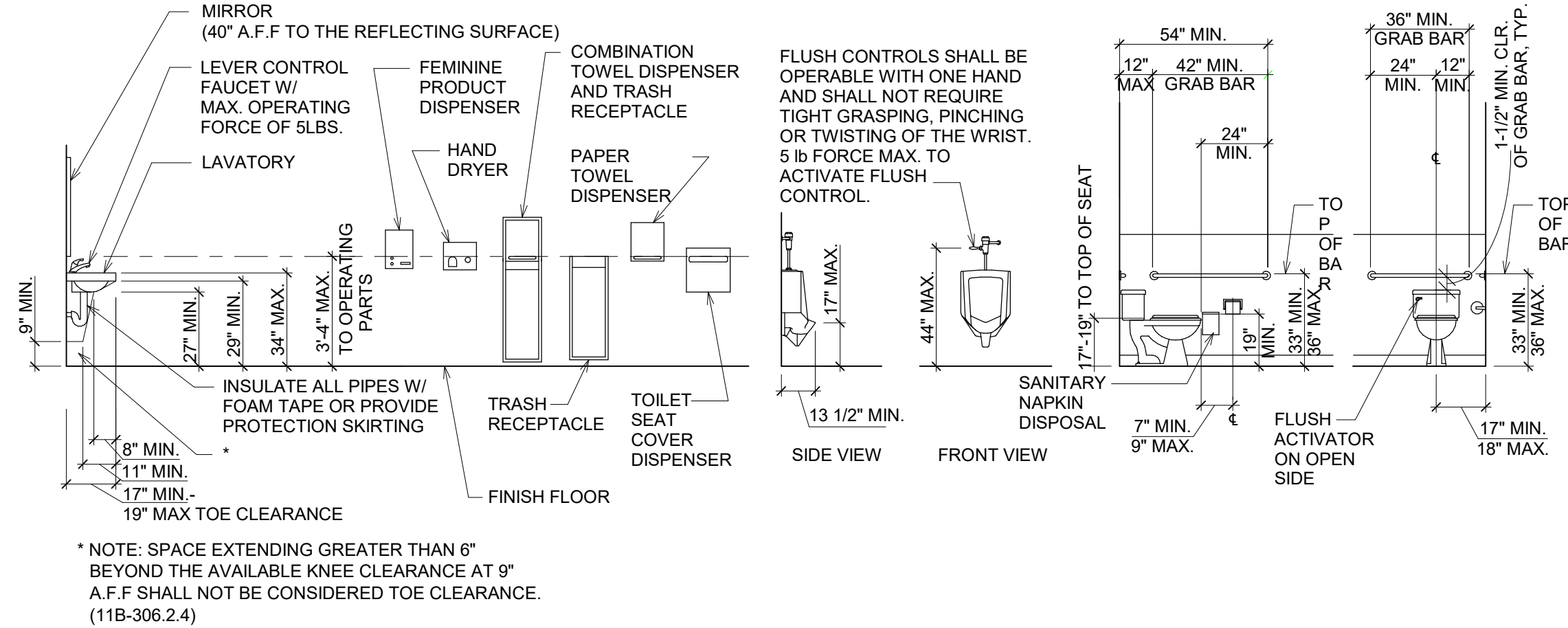
REVISIONS

DATE: December 30, 2022

WALL & OPENING
DETAILS

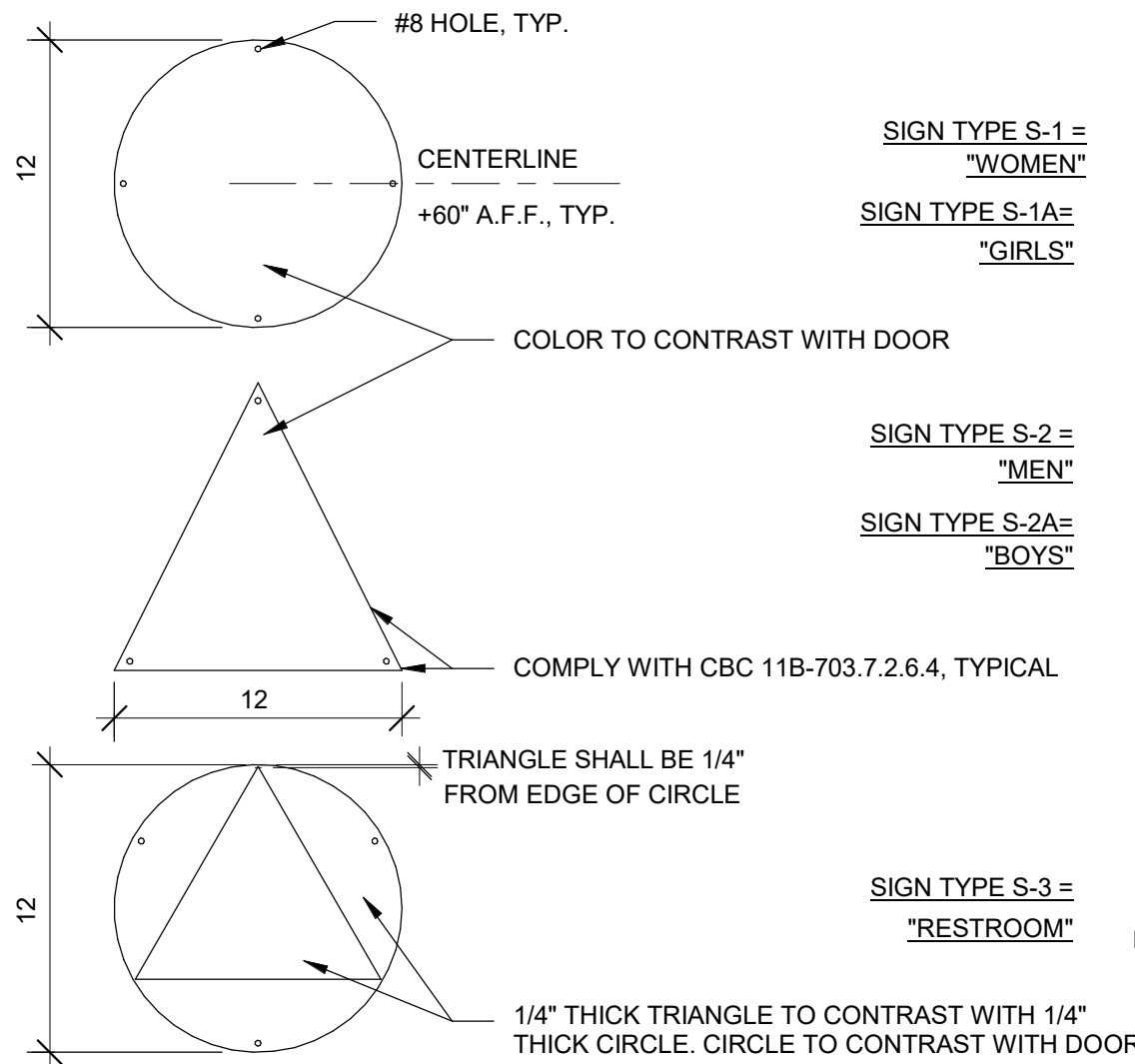
A8.1

JOB NO. 2149.00

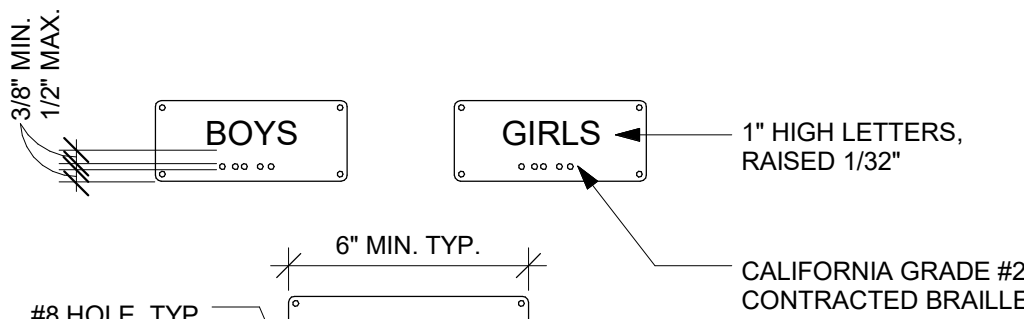


5 ACCESSIBLE FIXTURE & ACCESSORY (ADULT) MOUNTING HEIGHTS

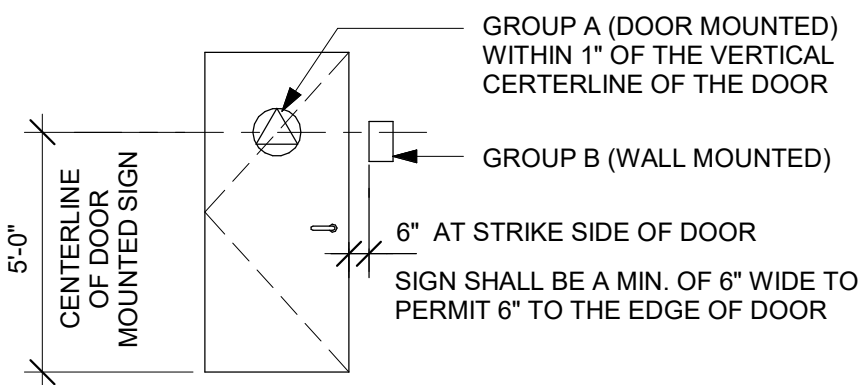
SCALE: 1/4" = 1'-0"



ACCESSIBLE RESTROOM PLAQUES - GROUP A



ACCESSIBLE RESTROOM PLAQUE - GROUP B

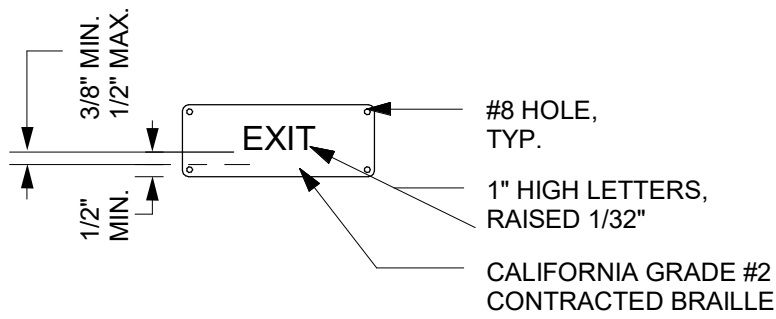


GROUP A & B SIGN LOCATIONS

11 RESTROOM SIGNAGE

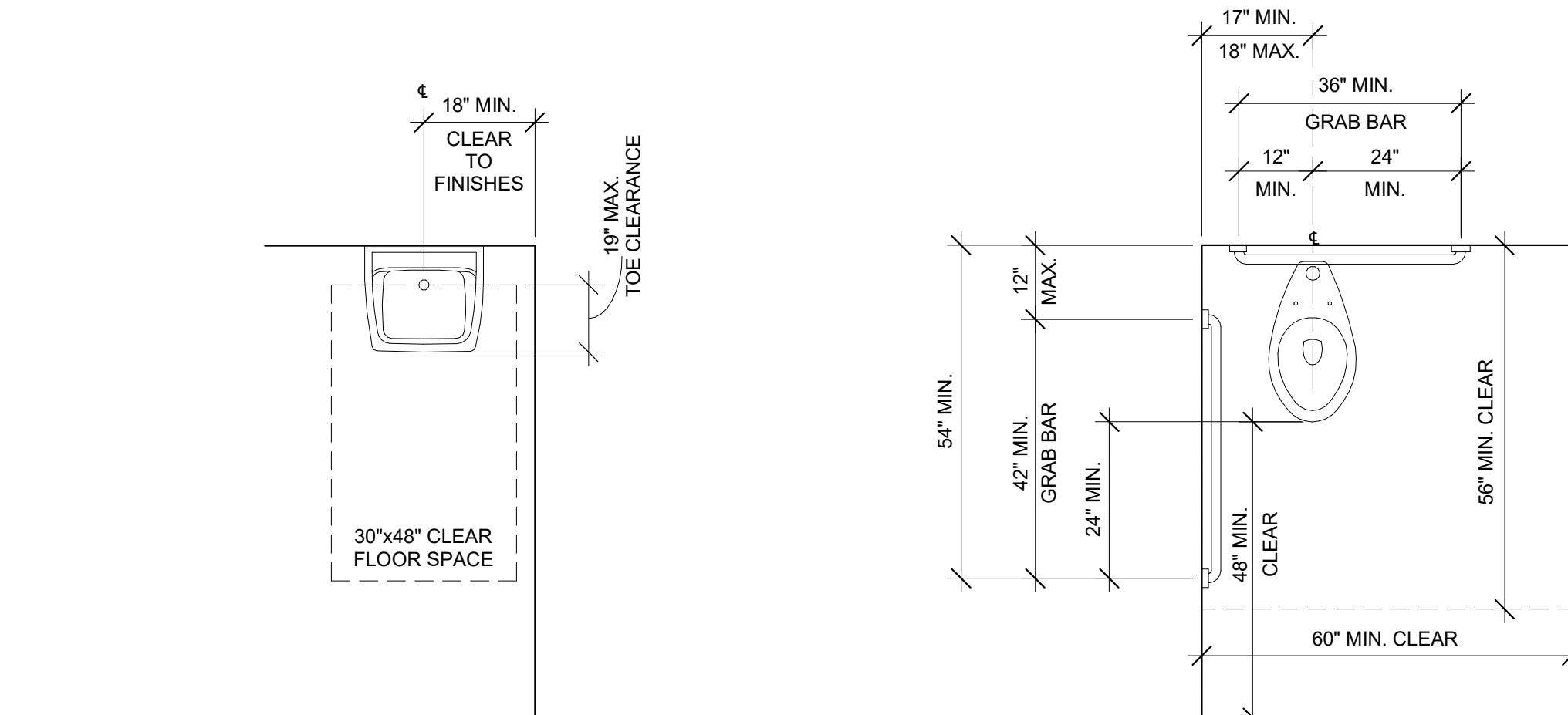
SCALE: 1 1/2" = 1'-0"

SIGN TYPE S-9



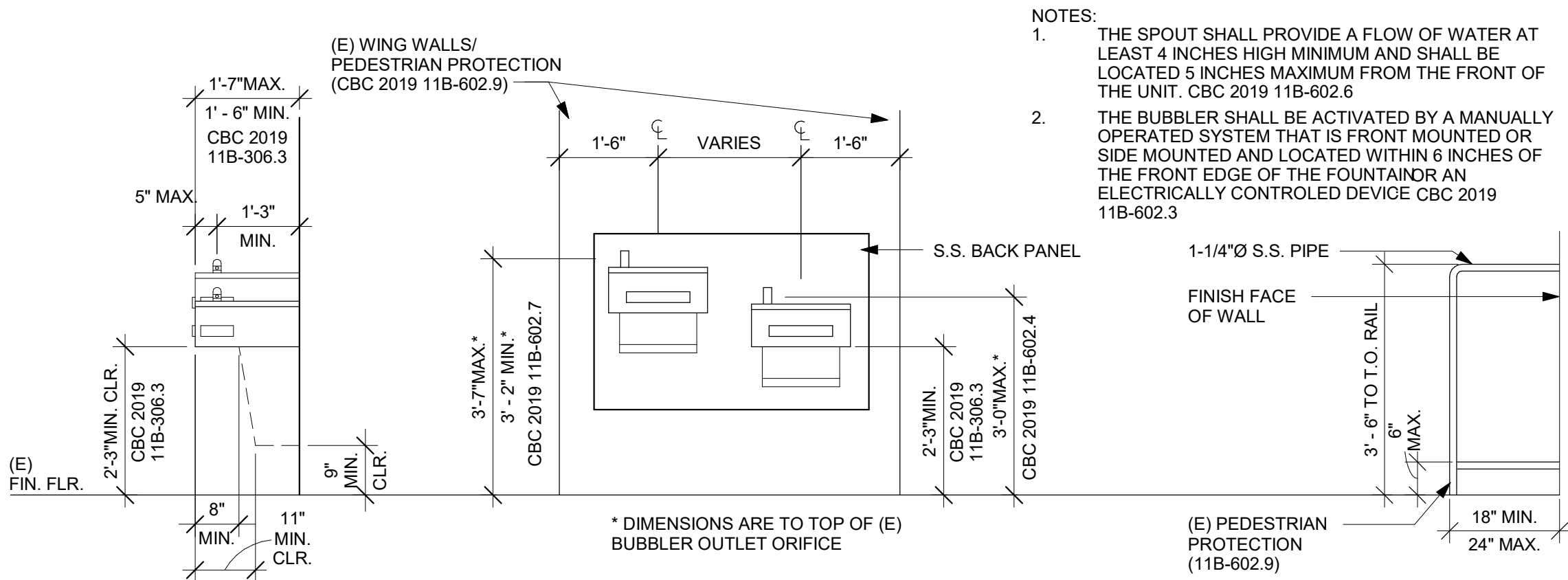
12 EXIT SIGNAGE

SCALE: NTS



6 LAVATORY CLEARANCE PLAN

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

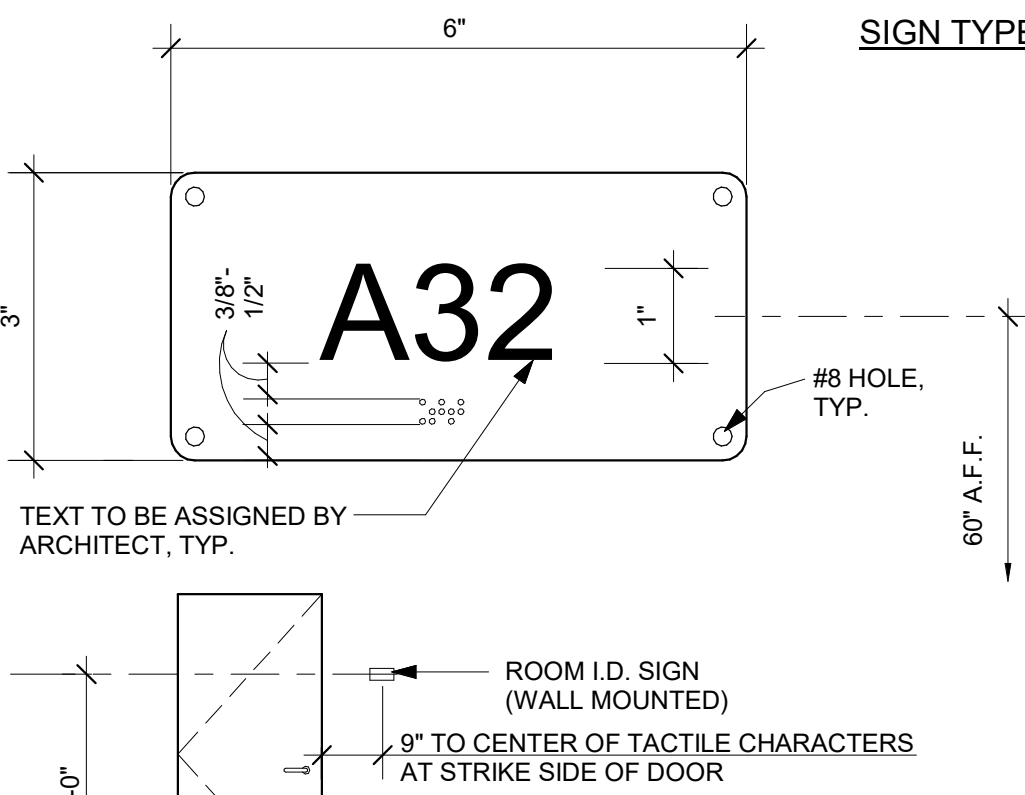


2 TOILET CLEARANCES PLAN

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

7 EXISTING HI-LOW DRINKING FOUNTAIN

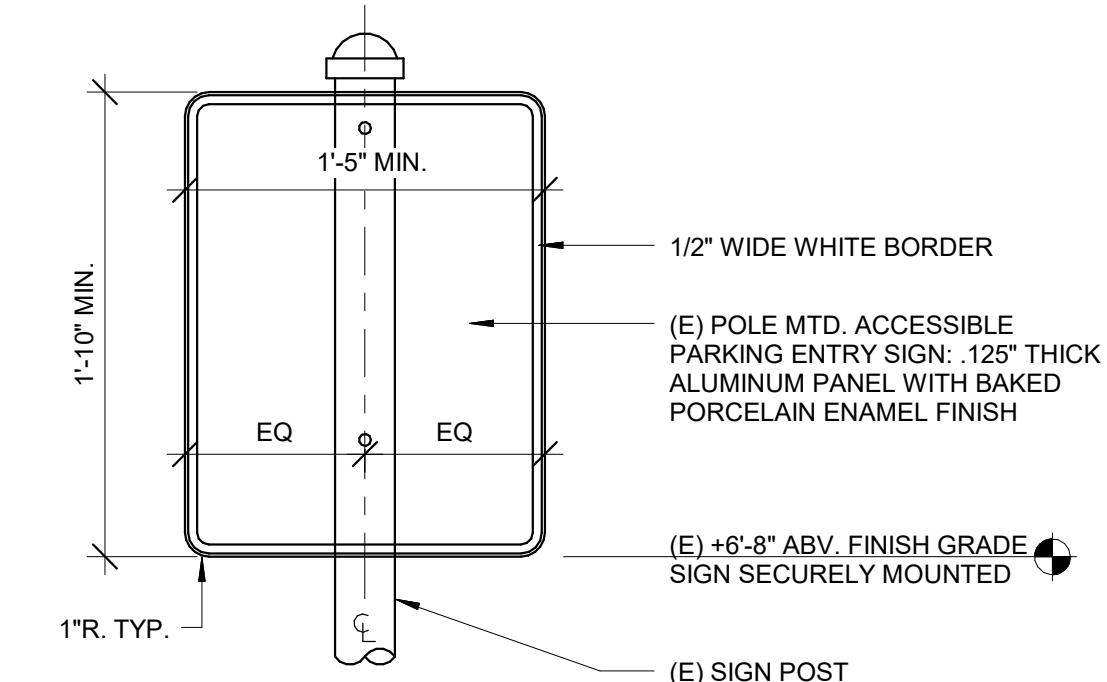
1/2" = 1'-0"



8 TYP. ROOM ID SIGNAGE

SCALE: NTS

1" HIGH WHITE LETTERS ON BLUE BACKGROUND WITH MESSAGE:
"UNAUTHORIZED VEHICLES PARKED IN DESIGNATED ACCESSIBLE SPACES NOT DISPLAYING DISTINGUISHING PLACARDS OR LICENSE PLATES ISSUED FOR PERSONS WITH DISABILITIES WILL BE TOWED AWAY AT OWNER'S EXPENSE. TOWED VEHICLES MAY BE RECLAIMED AT 1451 GARDEN HIGHWAY OR BY TELEPHONING 530-755-2928."



4 EXISTING PARKING EXTRY SIGN

1 1/2" = 1'-0"

POST INSTALLED ANCHOR NOTES:

- ALL POST INSTALLED ANCHORS ARE TO BE INSTALLED PER MANUFACTURER FOR EACH ANCHOR AND PER THE ICC REPORTS LISTED BELOW.
- ALL POST-INSTALLED ANCHORS ARE TO BE CAREFULLY INSTALLED SO AS TO NOT DISTURB OR DAMAGE THE STEEL REINFORCING IN ANY WAY. ANCHORS MAY NOT BE INSTALLED UNTIL CONCRETE OR GROUT HAS REACHED A MINIMUM AGE OF 28 DAYS.
- ALL HOLES FOR DRILLED-IN ANCHORS SHALL BE COMPLETELY DRY AND WELL CLEANED WITH A BOTTLE BRUSH AND COMPRESSED AIR PRIOR TO INSTALLING THE ANCHORS.
- ALL DRILLED-IN ANCHORS SHALL BE TESTED PER SECTION 1910A.5 OF THE 2019 CBC AND PER THE DSA-103. ALL TESTING SHALL BE DONE BY THE TESTING LABORATORY OF RECORD AND SHALL BE PERFORMED IN THE PRESENCE OF A SPECIAL INSPECTOR. ALL TESTING RESULTS SHALL BE SUBMITTED TO DSA AND TO THE ARCHITECT AND STRUCTURAL ENGINEER. TESTING SHALL OCCUR WITHIN 24 HOURS OF THE INSTALLATION OF EACH ANCHOR.
- POST-INSTALLED ANCHORS ARE TO BE AS FOLLOWS:
 - EPOXY ANCHORS
HILTI HIT-HY 200 PER ICC-ES ESR-3187
 - CONCRETE SCREW ANCHORS
SIMPSON TITEN PER ICC-ES ESR-2713
- ACCEPTANCE CRITERIA:
 - EPOXY ANCHORS - EPOXY ANCHORS TESTED WITH A HYDRAULIC RAM SHALL MAINTAIN THE TEST LOAD FOR A MINIMUM OF 15 SECONDS AND SHALL EXHIBIT NO DISCERNABLE MOVEMENT DURING THE TENSION TEST. TESTING APPARATUS SUPPORT LOCATIONS SHALL NOT BE WITHIN 1.5 TIMES THE ANCHOR'S EMBEDMENT DEPTH.
 - CONCRETE SCREW ANCHORS - SCREW TYPE ANCHORS TESTED WITH A TORQUE WRENCH SHALL ATTAIN THE SPECIFIED TORQUE WITHIN 1 TURN OF THE SCREW AFTER INITIAL SETTING OF THE SCREW HEAD.
- POST-INSTALLED ANCHORS ARE TO BE INSTALLED ONLY WHERE SPECIFICALLY DETAILED IN THE PROJECT DRAWINGS, WITH EMBEDMENTS AND PROOF TESTING AS SPECIFICALLY IDENTIFIED IN EACH APPLICABLE DETAIL. POST-INSTALLED ANCHORS MAY NOT BE USED AT LOCATIONS OTHER THAN THOSE SPECIFICALLY DETAILED IN THE PROJECT DRAWINGS WITHOUT PRIOR WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.
- SIMPSON TITEN SCREW ANCHORS AND HILTI POWDER-ACTUATED FASTENERS INSTALLED IN PRESSURE TREATED WOOD SILL PLATES ARE TO BE MECHANICALLY DEPOSITED ZINC COATED STEEL PER ASTM B695 CLASS S5 MINIMUM
- MISCELLANEOUS CONCRETE SCREW TYPE ANCHORS USED TO ATTACH DOOR THRESHOLDS TO SLABS DO NOT REQUIRE TESTING OR INSPECTION.
- SEOR IS TO BE CONTACTED IN THE EVENT ANY POST-INSTALLED ANCHORS FAIL THE SPECIFIED TENSION LOADS OR TORQUE VALUES SO THAT AN ALTERNATE ANCHORAGE MAY BE DETERMINED.

ROUGH CARPENTRY-HARDWARE:

- ALL STEEL CONNECTORS, STRAPS, HANGERS, HARDWARE, ETC SHALL BE BY SIMPSON STRONG-TIE OR APPROVED EQUAL UNO. ATTACH W/FASTENERS PER MFR TO ACHIEVE THE MAXIMUM TABULATED VALUE.
- HARDWARE COMPONENTS AND FASTENERS INSTALLED AGAINST OR INTO TREATED LUMBER SHALL HAVE CORROSION PROTECTION APPROPRIATE FOR THE TYPE OF CHEMICALS USED IN THE TREATMENT PROCESS. AS A MINIMUM, ALL HARDWARE AND FASTENERS INTO/AGAINST TREATED LUMBER OR IN EXTERIOR APPLICATIONS SHALL BE HOT-DIPPED GALVANIZED (G185 MIN FOR HARDWARE) OR STAINLESS STEEL.
- INSTALL ALL SPECIFIED FASTENERS BEFORE LOADING THE CONNECTION.
- NAILS FOR HARDWARE SHALL NOT BE OVERDRIVEN OR DEFORM THE PART. THE CONTRACTOR SHALL VERIFY WITH THE HARDWARE MFR THAT THE PART PUBLISHED CAPACITIES ARE NOT REDUCED AS A RESULT OF THE INSTALLED CONDITION.
- FASTENER SUBSTITUTIONS FOR HARDWARE ARE NOT ALLOWED UNLESS APPROVED FOR USE BY THE MFR AND THE HARDWARE CAPACITY IS NOT REDUCED.
- WASHERS AT WOOD CONNECTIONS SHALL BE SQUARE PLATE STEEL OR MALLEABLE IRON W/ THE FOLLOWING MIN DIMENSIONS:

FASTENER DIAMETER	MIN WASHER DIMENSIONS	MIN THICKNESS
1/2"	2" x 2"	3/16"
5/8"	2 1/4" x 2 1/4"	1/4"
3/4"	2 3/4" x 2 3/4"	5/16"
7/8"	3" x 3"	5/16"
1"	3 1/2" x 3 1/2"	3/8"

ROUGH CARPENTRY-WOOD SCREWS:

- ALL SPECIFIED WOOD SCREWS SHALL CONFORM TO ANSI/ASME STANDARD B18.6.1. ALTERNATE WOOD SCREWS MUST HAVE AN ICC EVALUATION REPORT AND MAY NOT BE USED UNLESS APPROVED IN WRITING BY RW CONSULTING ENGINEERS. END DISTANCE, EDGE DISTANCE, & SPCG OF ALTERNATE WOOD SCREWS MUST CONFORM TO THE MFR ICC EVALUATION REPORT.
- WOOD SCREWS SHALL BE LOCATED AND SPACED TO PREVENT SPLITTING OF WOOD. PRE-DRILL LEAD HOLES AS REQ'D. LEAD HOLES SHALL NOT EXCEED THE SMALLEST OF 1/4 OF THE SHANK DIAMETER AND 1/4 OF THE ROOT DIAMETER AT THREADED PORTIONS.
- WOOD SCREWS USED IN HARDWARE SHALL BE AS SPECIFIED BY HARDWARE MFR.
- WOOD SCREWS SHALL BE INSTALLED BY TURNING OF THE SCREW & NOT BY DRIVING OF A HAMMER.
- SOAP OR OTHER LUBRICANT MAY BE USED ON THE WOOD SCREW OR IN THE LEAD HOLE AS REQ'D TO PREVENT DAMAGE TO THE WOOD SCREW.
- WOOD SCREWS INSTALLED IN TREATED LUMBER SHALL HAVE CORROSION PROTECTION APPROPRIATE FOR THE TYPE OF CHEMICALS USED IN THE TREATMENT PROCESS. AS A MINIMUM, WOOD SCREWS INTO TREATED LUMBER OR IN EXTERIOR APPLICATIONS SHALL BE HOT-DIPPED GALVANIZED PER ASTM A153 CLASS D OR TYPE 316 STAINLESS STEEL.

ROUGH CARPENTRY-LAG SCREWS:

- ALL SPECIFIED LAG SCREWS SHALL CONFORM TO ANSI/ASME STANDARD B18.2.1.
- LEAD HOLES FOR LAG SCREWS SHALL BE BORED TO AVOID SPLITTING OF WOOD MEMBERS. THE LEAD HOLE FOR THE SHANK SHALL HAVE THE SAME DIAMETER AND LENGTH AS THE UNTHREADED SHANK. THE LEAD HOLE FOR THE THREADED PORTION SHALL SHALL NOT EXCEED 70% OF THE SHANK DIAMETER AND HAVE MIN LENGTH EQUAL TO THREADED PORTION.
- LAG SCREWS SHALL BE INSTALLED BY TURNING OF THE LAG SCREW & NOT BY DRIVING OF A HAMMER.
- SOAP OR OTHER LUBRICANT MAY BE USED ON THE LAG SCREW OR IN THE LEAD HOLE AS REQ'D TO PREVENT DAMAGE TO THE LAG SCREW.
- LAG SCREWS INSTALLED IN TREATED LUMBER SHALL HAVE CORROSION PROTECTION APPROPRIATE FOR THE TYPE OF CHEMICALS USED IN THE TREATMENT PROCESS. AS A MINIMUM, LAG SCREWS INTO TREATED LUMBER OR IN EXTERIOR APPLICATIONS SHALL BE HOT-DIPPED GALVANIZED PER ASTM A153 CLASS C OR TYPE 316 STAINLESS STEEL.
- LAG SCREWS SHALL BE INSTALLED WITH A STANDARD CUT WASHER OR PLATE WASHER W/CORROSION PROTECTION TO MATCH THE LAG SCREW.
- ALL LAG SCREWS TO BE TIGHTENED DURING INSTALLATION & RE-TIGHTENED JUST PRIOR TO CLOSING IN.

WOOD FASTENERS-BOLTS:

- ALL SPECIFIED BOLTS IN WOOD FRAMING SHALL CONFORM TO ANSI/ASME STANDARD B18.2.1.
- HOLES SHALL BE A MIN OF 1/2" TO A MAX OF 3/4" GREATER THAN THE BOLT DIAMETER. HOLES SHALL BE ACCURATELY ALIGNED AND NOT FORCIBLY DRIVEN.
- BOLTS INSTALLED IN TREATED LUMBER SHALL HAVE CORROSION PROTECTION APPROPRIATE FOR THE TYPE OF CHEMICALS USED IN THE TREATMENT PROCESS. AS A MINIMUM, BOLTS INTO TREATED LUMBER OR IN EXTERIOR APPLICATIONS SHALL BE HOT-DIPPED GALVANIZED PER ASTM A153 CLASS C OR TYPE 316 STAINLESS STEEL.
- BOLTS SHALL BE INSTALLED WITH A STANDARD CUT WASHER OR PLATE WASHER AT HEAD AND NUT W/CORROSION PROTECTION TO MATCH THE BOLT.
- ALL BOLTS & NUTS TO BE TIGHTENED DURING INSTALLATION & RE-TIGHTENED JUST PRIOR TO CLOSING IN.

ROUGH CARPENTRY-MATERIALS:

- ALL SAWN LUMBER SHALL BE DOUG FIR UNO AND HAVE MOISTURE CONTENT NOT TO EXCEED 19% AT TIME OF INSTALLATION. EACH PIECE SHALL BEAR THE STAMP OF WCLB OR WMPA SHOWING GRADE MARK.
- ALL COMPOSITE WOOD PRODUCTS (IE LVL, LSL, GLULAM, ETC) SHALL BE PROTECTED FROM EXPOSURE AND EXCESSIVE MOISTURE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. MOISTURE CONTENT OF 16% PRIOR TO MEMBERS BEING WRAPPED OR ENCLOSED.
- ALL SAWN LUMBER TO BE SPECIES & GRADE AS NOTED BELOW:

MEMBER	SPECIES & GRADE
2x_ & 3x_STUDS	#2 DF
2x_JOISTS, PLATES	#2 DF
4x_HEADERS	#1 DF
4x_COLUMNS	#1 DF
6x_ & LARGER HEADERS	SS DF
6x_ & LARGER COLUMNS	SS DF

 - MATERIAL EXPOSED TO WEATHER OR IN CONTACT W/CONCRETE SHALL BE PRESSURE TREATED
 - OPTIONAL FOR EXPOSED 8x_ BEAMS & POSTS TO BE #1AC IN LIEU OF TREATED DF
 - STUDS TALLER THAN 12'-0" SHALL BE #1DF
- PRESERVATIVE TREATED & PRESSURE TREATED LUMBER
 - SAWN LUMBER TO BE PROTECTED FROM EARTH, WEATHER, EARTH, & CONCRETE/CMU OR WOOD SHALL BE TREATED
 - PRESERVATIVE TREATMENT & CLEARANCES TO SOIL OR CONCRETE SHALL BE PER CBC 2303.1.9 & 2304.12.1.2
 - FIELD CUTS & HOLES IN TREATED LUMBER SHALL BE PROTECTED IN ACCORDANCE W/AWPA STANDARD M4
 - CONTRACTOR TO COORDINATE WITH TREATED WOOD SUPPLIER TO DETERMINE THE APPROPRIATE LEVEL OF CORROSION PROTECTION FOR HARDWARE & FASTENERS IN CONTACT WITH WOOD TREATED WITH CORROSIVE CHEMICALS.
- ALL WOOD PANEL STRUCTURAL SHEATHING SHALL BE STAMPED W/APA TRADEMARK AND CONFORM TO MOST CURRENT EDITION OF PS-1 OR PS-2. USE THICKNESS AND NAILING AS SHOWN ON DRAWINGS. SHEATHING SHALL HAVE EXPOSURE RATING AS APPROPRIATE FOR ON-SITE EXPOSURE CONDITIONS DURING CONSTRUCTION AND IN FINAL CONDITION. EQUIVALENT OSB SHALL BE USED IN LIEU OF PLYWOOD. PROVIDE PLYWOOD AT ALL EXPOSED EAVE CONDITIONS.

ROUGH CARPENTRY-NAILS:

- ALL SPECIFIED NAILS SHALL CONFORM TO ASTM F1667 OR ICC ESR-1539. ALTERNATE FASTENERS MUST HAVE AN ICC EVALUATION REPORT AND MAY NOT BE USED UNLESS APPROVED IN WRITING BY RW CONSULTING ENGINEERS. ALL NAILS SHALL BE FULL ROUND HEAD WITH MINIMUM PROPERTIES AS FOLLOWS:

SPECIFIED FASTENER	DIAMETER	LENGTH	PENETRATION	APPLICATION
8d	.131"Ø	2 1/2"	1 3/4"	SHTG/FRMG
10d	.148"Ø	3"	1 1/2"	SHTG/FRMG
16d BOX	.135"Ø	3 1/2"	1 3/4"	FRMG
16d SINKER	.148"Ø	3 1/4"	1 1/2"	FRMG
16d COMMON	.162"Ø	3 1/2"	1 3/4"	FRMG

- ALL NAILS SHALL BE COMMON WIRE NAILS EXCEPT WHERE SPECIFICALLY NOTED
- NAILS SHALL BE LOCATED AND SPACED TO PREVENT SPLITTING OF WOOD. PREDRILL ALL FASTENERS 75% MAX OF FASTENER DIAMETER WHERE WOOD TENDS TO SPLIT.
 - TOENAILS SHALL BE DRIVEN AT AN ANGLE OF APPROX 30° WITH THE MEMBER AND STARTED APPROX 1/2 THE LENGTH OF THE NAIL FROM THE MEMBER END.
 - NAILS USED IN HARDWARE SHALL BE AS SPECIFIED BY HARDWARE MFR.
 - MINIMUM NAILING SHALL BE PER CBC TABLE 2304.10.1 UNO:

Description	Nailing
Roof	
1. Bldg btwn cig joints, rafters or trusses to top plate or other framing blw	3-8d toe nail, ea end
2. Bldg btwn rafters or truss not at the wall top plate, to rafter or truss	2-8d toe nail or 2-16d end nail, ea end
3. Flat bldg to truss & web floor	1-6d face nail @ 6"cc
2. Cig joint to top plate	3-8d toe nail ea joint
5. Cig joint not attached to parallel rafter, laps ov/partitions (no thrust)	3-16d face nail
4. Cig joint attached to parallel rafter, laps ov/partitions (w thrust)	CBC Table 2308.7.3.1
5. Collar tie to rafter	3-10d face nail
6. Rafter or truss to top plate (see CBC section 2308.7.3.1, Table 2308.7.3.1)	3-10d toe nail
7. Rafters to ridge, valley or hip rafters, or rafter to 2" ridge	3-10d toenail or 2-16d end nail
Wall	
8. Stud to stud (not @ braced wall panels)	16d @ 24"cc face nail
9. Stud to stud and abutting studs at intersecting wall corners (braced wall panels)	16d @ 6"cc face nail
10. Built up header (2" to 2" header)	16d @ 16"cc face nail
11. Cont header to stud	4-8d toe nail
12. Top plate to top plate	16d @ 16"cc face nail
13. Top plate to top plate, at end joints	8-16d ea side of end joint face nail (24" min lap splice ea end)
14. Bot plate to joist, rim, band joint or blg (not @ braced wall panels)	16d @ 16"cc
15. Bot plate to joist, rim, band joint or blg (braced wall panels)	2-16d @ 16"cc
16. Stud to top or bot plate	4-8d toe nail
17. Top or bot plate to stud	2-16d end nail
18. Top plates, laps at corners & intersections	2-16d face nail
19. 1" brace to ea stud & plate	2-8d face nail
20. 1x6 sheathing to ea bearing	2-8d face nail
21. 1x8 & wider sheathing to ea bearing	3-8d face nail
Floor	
22. Joist to sill, top plate or girder	3-8d toe nail
23. Rim joist, band joist, or blg to top plate, sill, or other framing blw	8d @ 6"cc toe nail
24. 1x6 sub floor or less to ea joist	2-8d face nail
25. 2" sub floor to joist or girder	2-16d face nail
26. 2" planks ea bearing (plank & beam, floor & roof)	2-16d face nail
27. Built up girders & beams, 2" lumber layers	10d @ 24"cc face nail at top & bot, stagger on opposite sides
28. Ledger strip supporting joist or rafter	3-16d ea joist or rafter face nail
29. Joist to band joist or rim joist	3-16d end nail
30. Bridging or blg to joist, rafter or truss	2-8d toe nail ea end

- NAILS INSTALLED IN TREATED LUMBER SHALL HAVE CORROSION PROTECTION APPROPRIATE FOR THE TYPE OF CHEMICALS USED IN THE TREATMENT PROCESS. AS A MINIMUM, NAILS INTO TREATED LUMBER OR IN EXTERIOR APPLICATIONS SHALL BE HOT-DIPPED GALVANIZED PER ASTM A153 CLASS D OR TYPE 316 STAINLESS STEEL.
- SHEATHING NAILS SHALL BE DRIVEN SO THAT THEIR HEAD OR CROWN ARE FLUSH WITH THE SURFACE OF THE SHEATHING.

CONCRETE NOTES:

- ALL CONCRETE CONSTRUCTION SHALL CONFORM TO THE 2019 CBC AND ACI 318-14.
- ALL CONCRETE SHALL BE NORMAL WEIGHT PER ACI 301 AND HAVE PROPORTIONS OF CEMENT, COARSE AND FINE AGGREGATE, WATER AND ADMXTURES TO PRODUCE THE PROPERTIES SPECIFIED FOR EACH CONCRETE MIX TYPE PER ACI 301 ON THE BASIS OF PREVIOUS FIELD EXPERIENCE AND SUPPORTED BY PREVIOUS TEST RECORDS.
- STRUCTURAL CONCRETE SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

CLASS A:	FOR USE AT FOOTINGS 28-DAY STRENGTH, F'c = 3,500 PSI MAX AGGREGATE SIZE = 1 1/2" MAX WATER TO CEMENT RATIO = 0.55 SLUMP = 3.5" ± 1"
CLASS C:	FOR USE AT INTERIOR SLABS ON GRADE 28-DAY STRENGTH, F'c = 4,000 PSI MAX AGGREGATE SIZE = 1" MAX WATER TO CEMENT RATIO = 0.45 SLUMP = 3" ± 1"
- CONSTITUENTS OF STRUCTURAL CONCRETE SHALL MEET THE FOLLOWING REQUIREMENTS:
 - PORTLAND CEMENT PER ASTM C-150 TYPE I OR II
 - COARSE AND FINE AGGREGATES PER ASTM C-33
 - REINFORCING PER ASTM A615 GRADE 60, UNO
 - FLY ASH PER ASTM C-618 CLASS N OR F
 - ADMIXTURES PER PROJECT SPECIFICATIONS
- ALL DEBRIS SHALL BE REMOVED FROM FORMS AND FOOTING EXCAVATIONS PRIOR TO POURING CONCRETE. NO WOOD STAKES OR FORM SPREADERS SHALL BE PERMITTED IN CONCRETE.
- ALL REINFORCEMENT, ANCHOR BOLTS, AND OTHER EMBEDDED ITEMS SHALL BE SECURED IN POSITION SHOWN ON DRAWINGS PRIOR TO PLACING CONCRETE.
- FREE-FALL OF CONCRETE SHALL BE LIMITED TO 4'-0" MAX. CONCRETE SHALL NOT BE DROPPED THROUGH REINFORCING STEEL SO AS TO CAUSE SEPARATION OF AGGREGATES.
- CONCRETE SHALL BE CONSOLIDATED BY MECHANICAL VIBRATION PER ACI 309 BY MEANS SUITABLE FOR ON SITE CONDITIONS. USE HAND RODDING OR TAMPING AS REQUIRED.
- CONSTRUCTION JOINTS SHALL HAVE ALL LOOSE MATERIAL REMOVED AND SHALL BE INTENTIONALLY ROUGHENED TO 3/4" AMPLITUDE PRIOR TO POURING CONCRETE. CONTRACTOR SHALL SUBMIT CONSTRUCTION JOINT LOCATIONS TO ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
- ALL FORMWORK TO REMAIN IN PLACE FOR DURATION AS REQUIRED BY LATEST EDITION OF ACI 318.
- REFER TO ACI RECOMMENDATIONS FOR PLACING AND CURING CONCRETE IN COLD AND HOT WEATHER CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING CONCRETE MIX DESIGN WITH BATCH PLANT TO PROVIDE CONCRETE MIX APPROPRIATE FOR SITE CONDITIONS
- CONTRACTOR IS RESPONSIBLE FOR DETERMING AND IMPLEMENTING APPROPRIATE CURING PROCEDURES FOR ACTUAL SITE/WEATHER CONDITIONS AND SHALL INCLUDE PROVISIONS FOR INCLEMENT WEATHER. REFER TO ACI 308R.
- ALL SLABS SHALL BE FLAT AND LEVEL W/A TOLERANCE OF 3/4" IN 10' FOR FLATNESS AND MINIMUM LOCAL VALUE F = 32 PER ASTM 1155. THE PROJECT OWNER MAY REJECT ANY CONSTRUCTION THAT DOES NOT MEET THE FLATNESS CRITERIA NOTED WITH REPLACEMENT AT CONTRACTOR'S EXPENSE.
- CONDUITS AND PIPES EMBEDDED IN THE SLAB (OTHER THAN THOSE PASSING VERTICALLY THROUGH) SHALL NOT BE PERMITTED. CONTRACTOR TO SUBMIT FOOTING PENETRATIONS TO STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
- DSA AND THE STRUCTURAL ENGINEER SHALL BE NOTIFIED BY THE CONTRACTOR A MINIMUM OF 48 HOURS BEFORE PLACING CONCRETE (T-24 PART 1, 4-331).

STEEL REINFORCING NOTES:

- ALL CONCRETE REINFORCING SHALL CONFORM TO THE 2019 CBC AND BE DETAILED, FABRICATED, AND PLASED PER ACI 318-14, AND PER THE LATEST EDITION OF ACI 315.
- REINFORCEMENT SHALL BE DEFORMED BILLET STEEL PER ASTM A-615, GRADE 60. ALL REINFORCEMENT TO BE WELDED SHALL BE ASTM A-706, GRADE 60 (SEE NOTE 10 BELOW).
- ALL BENDING OF REINFORCEMENT PER ACI. FIELD BENDING OF REINFORCEMENT SHALL NOT BE PERMITTED.
- REINFORCEMENT IN SLABS AND FOOTINGS SHALL BE CONTINUOUS AROUND CORNERS OR CORNER BARS PROVIDED.
- LAP SPLICES OF CONCRETE REINFORCEMENT

5.1	#3 BARS = 30"
5.2	#4 BARS = 40"
5.3	#5 BARS = 48"
5.4	#6 BARS = 60"
- ALL ADJACENT REINFORCING LAPS ARE TO BE STAGGERED A MINIMUM OF 5'-0".
- REINFORCING SHALL BE PLACED WITH THE FOLLOWING MINIMUM CLEAR COVERAGE, UNO:

7.1	POURED AGAINST EXCAVATIONS/GROUND	= 3"
7.2	POURED AGAINST FORMS, EXPOSED TO SOIL	= 2"
7.3	CONCRETE EXPOSED TO WEATHER	= 1 1/2"
7.4	SLABS ON GRADE - CENTER REINFORCING WITHIN SLAB DEPTH	
- REINFORCING SHALL BE TIED IN PLACE. TACK WELDING OF REINFORCING IS NOT PERMITTED.
- WHERE REINFORCING IS NOT SPECIFIED, REFER TO ACI 318 FOR MINIMUM REINFORCEMENT.
- WELDING OF REINFORCING IS NOT PERMITTED UNLESS SHOWN ON THESE DRAWINGS OR WITH PRIOR WRITTEN APPROVAL FROM THE SEOR.

DESIGN CRITERIA:

- PROJECT ADDRESS: 800 APRIL LANE
YUBA CITY, CA 95991
- BUILDING CODE: 2019 CALIFORNIA BUILDING CODE
- LATERAL LOADS: RISK CATEGORY III
WIND LOADS (ASCE 7-16)

BASIC WIND SPEED	100 MPH (77 MPH ASD)
EXPOSURE	C
BUILDING IS CONSIDERED "ENCLOSED"	
PRESSURE COEFFICIENTS	
INTERNAL PRESSURE COEFFICIENT, GCi= ± 0.18	
TOPOGRAPHIC FACTOR, Kzt= 1.00	
WIND DIRECTIONALITY FACTOR, Kd= 0.85	
VELOCITY PRESSURES	
q (0'-15')	= 11.0 PSF (ASD)
q (15'-20')	= 11.6 PSF (ASD)

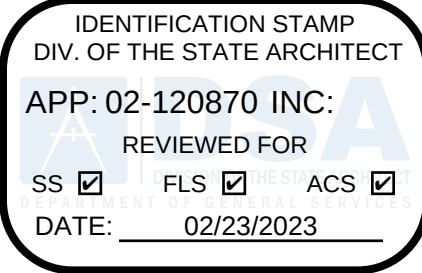
SEISMIC LOADS (ASCE 7-16)		D (DEFAULT)
SITE CLASS		D
SEISMIC DESIGN CATEGORY		1.25
IMPORTANCE FACTOR		
Ss = 0.537	Sd = 0.254	
Fs = 1.371	Fd = 2.092	
Sms = 0.736	Sms = 0.531	
Sds = 0.491	Sds = 0.354	

GENERAL NOTES:

- ALL NEW WORK SHALL CONFORM TO TITLE 24 2019 EDITIONS WITH AMENDMENTS AND ALL OTHER APPLICABLE CODES AND REGULATIONS.
- THIS SET OF STRUCTURAL DRAWINGS IS APPLICABLE ONLY TO THE LISTED PROJECT AND SITE LOCATION.
- NOTES ON THIS SHEET ARE TYPICAL AND SHALL APPLY UNLESS OTHERWISE NOTED OR SHOWN. TYPICAL DETAILS SHALL APPLY FOR ALL LIKE CONDITIONS UNLESS OTHERWISE NOTED OR DETAILED.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS, ELEVATIONS, EXISTING CONDITIONS, AND OTHER RELATED ITEMS. THE CONTRACTOR SHALL REVIEW THE CONTRACT DOCUMENTS PRIOR TO CONSTRUCTION AND SHALL NOTIFY THE ENGINEER OF RECORD IF ANY CONFLICTS ARE SHOWN OR NOTED.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFORM TO RELEVANT SECTIONS OF THE CALIFORNIA "CONSTRUCTION SAFETY ORDERS" AND ALL OSHA REQUIREMENTS. THE ENGINEER OF RECORD ACCEPTS NO RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY W/ THESE REQUIREMENTS.
- STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE, AND DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION. DESIGN AND CONSTRUCTION OF ALL TEMPORARY BRACING, SHORING, FORMING, ETC REQUIRED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- A COPY OF TITLE 24 CCR PARTS 1 -5 SHALL BE KEPT ON SITE AT ALL TIMES (T-24 PART 1, 4-317(c).
- ALL CHANGES TO THE ACCESSIBILITY, FIRE AND LIFE SAFETY, AND STRUCTURAL PORTIONS OF THE APPROVED DRAWINGS SHALL BE MADE BY A CONSTRUCTION CHANGE DOCUMENT (CCD). ALL SUCH CHANGES BY CCD ARE TO BE SIGNED BY THE SEOR, THE OWNER, AND APPROVED BY DSA. CHANGES BY CCD ARE NOT VALID UNTIL APPROVED BY DSA (T-24, PART 1, 4-338).
- A PROJECT INSPECTOR (INSPECTOR OF RECORD, IOR) EMPLOYED BY THE OWNER/DISTRICT AND CERTIFIED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK
- THE STRUCTURAL ENGINEER SHALL PERFORM DUTIES PER T-24 PART 1, 4-333(a) AND 4-341. THE CONTRACTOR SHALL PERFORM DUTIES PER 4-343. THE IOR SHALL PERFORM DUTIES PER T-24 PART 1, 4-342.

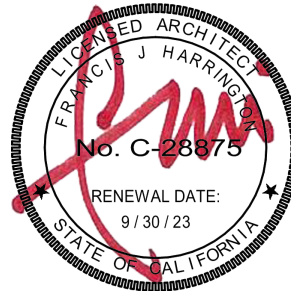
INSPECTION NOTES:

- ALL TESTS AND INSPECTIONS ARE TO BE PROVIDED BY A QUALIFIED TESTING LAB OF RECORD, HIRED BY THE DISTRICT (T-24 PART 1, 4-335).
- ALL TESTS AND INSPECTIONS SHALL CONFORM TO CHAPTER 17A OF THE 2019 CBC AND THE PROJECT SPECIFIC DSA-103.
- ALL SPECIAL INSPECTORS SHALL HAVE A MINIMUM OF THREE YEARS OF EXPERIENCE WITH MATERIAL BEING INSPECTED.
- A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER OF RECORD SHALL OBSERVE ALL GRADING, BUILDING PAD PREP, AND FOOTING EXCAVATIONS.



HARRINGTON
DESIGN
ASSOCIATES

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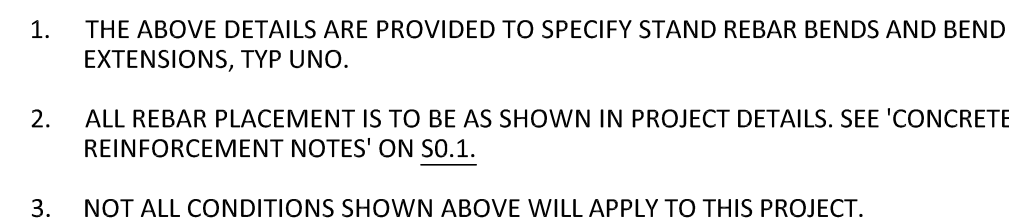
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STRUCTURAL NOTES

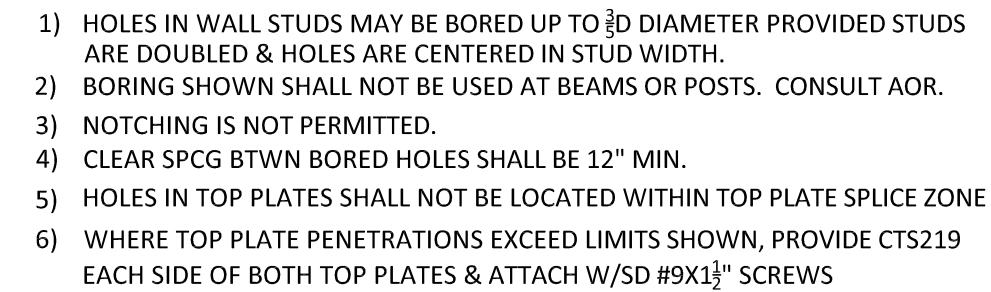


1. ALL SLAB DEMO IS TO BE DONE BY FIRST SAW CUTTING SLAB.
2. EXISTING WELD IS 4" THICK WITH 6X6 / #10X12 WELDED W/RE FABRIC OVER 6" OF GRAVEL. PROVIDE UNDER-SLAB SUBSTRATE TO MATCH EXISTING CONDITIONS.
3. WHERE VAPOR BARRIER IS ENCOUNTERED, PATCH EXISTING VAPOR BARRIER WITH 15 MIL STEGO AND SEAL ALL JOINTS
4. INSTALL EPOXIED REBAR WITH HILT HI-THY 200 FOR ICC-ES ESR-3187. INSPECTION AND TESTING NOT REQUIRED.
5. WHERE NEW CONCRETE IS IN CONTACT WITH EXISTING CONCRETE, ROUGHEN AND CLEAN SURFACE, AND APPLY BONDING AGENT.

SLAB REPAIR NOTES

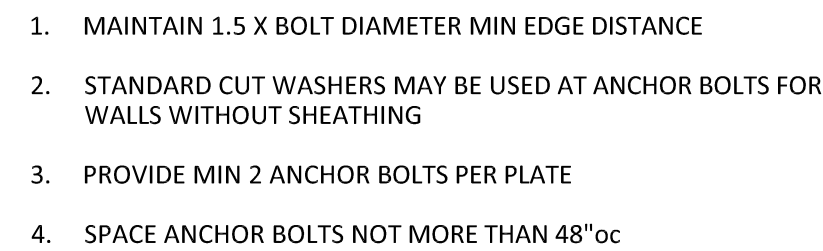


STANDARD REBAR BENDS

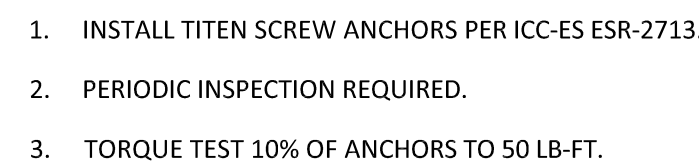


THIS DETAIL APPLIES TO INTERIOR NON-STRUCTURAL WALLS AND CEILING
JOISTS ONLY. FOR ALL OTHER CONDITIONS, CONTACT SEOR PRIOR TO
PROCEEDING WITH BORING ANY HOLES

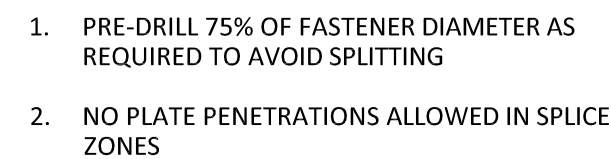
BORING



WOOD SILL PLATE ANCHOR BOLTS

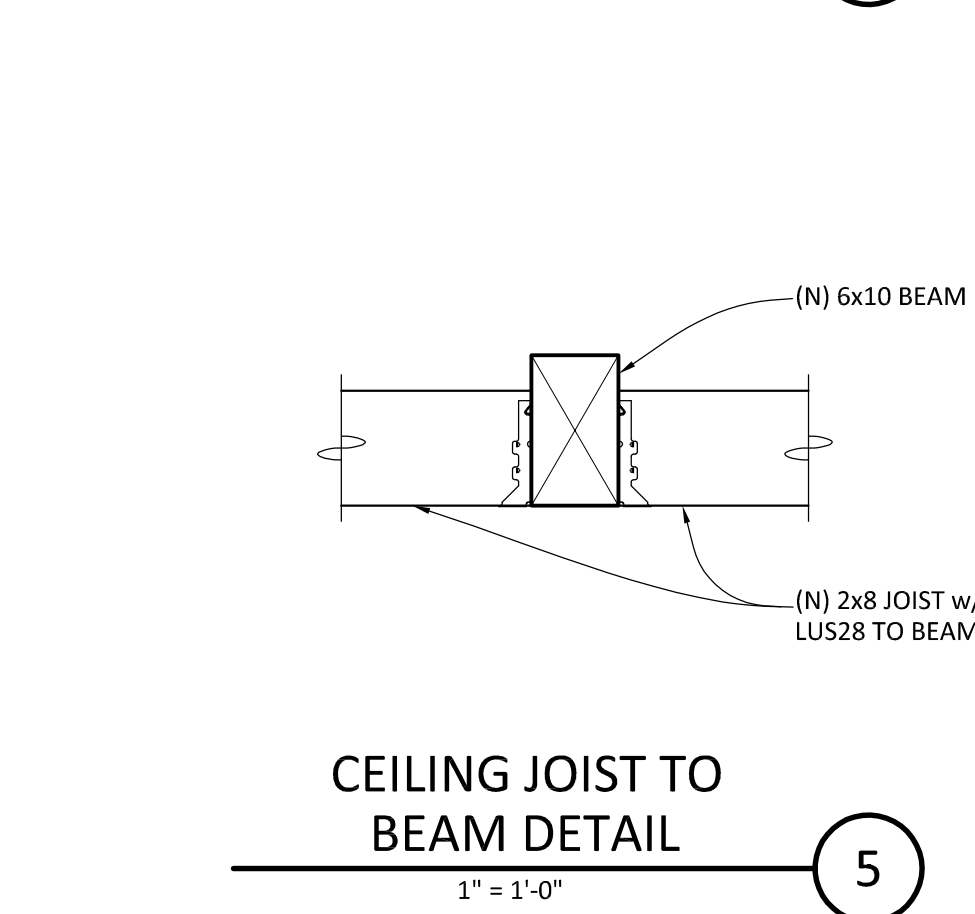
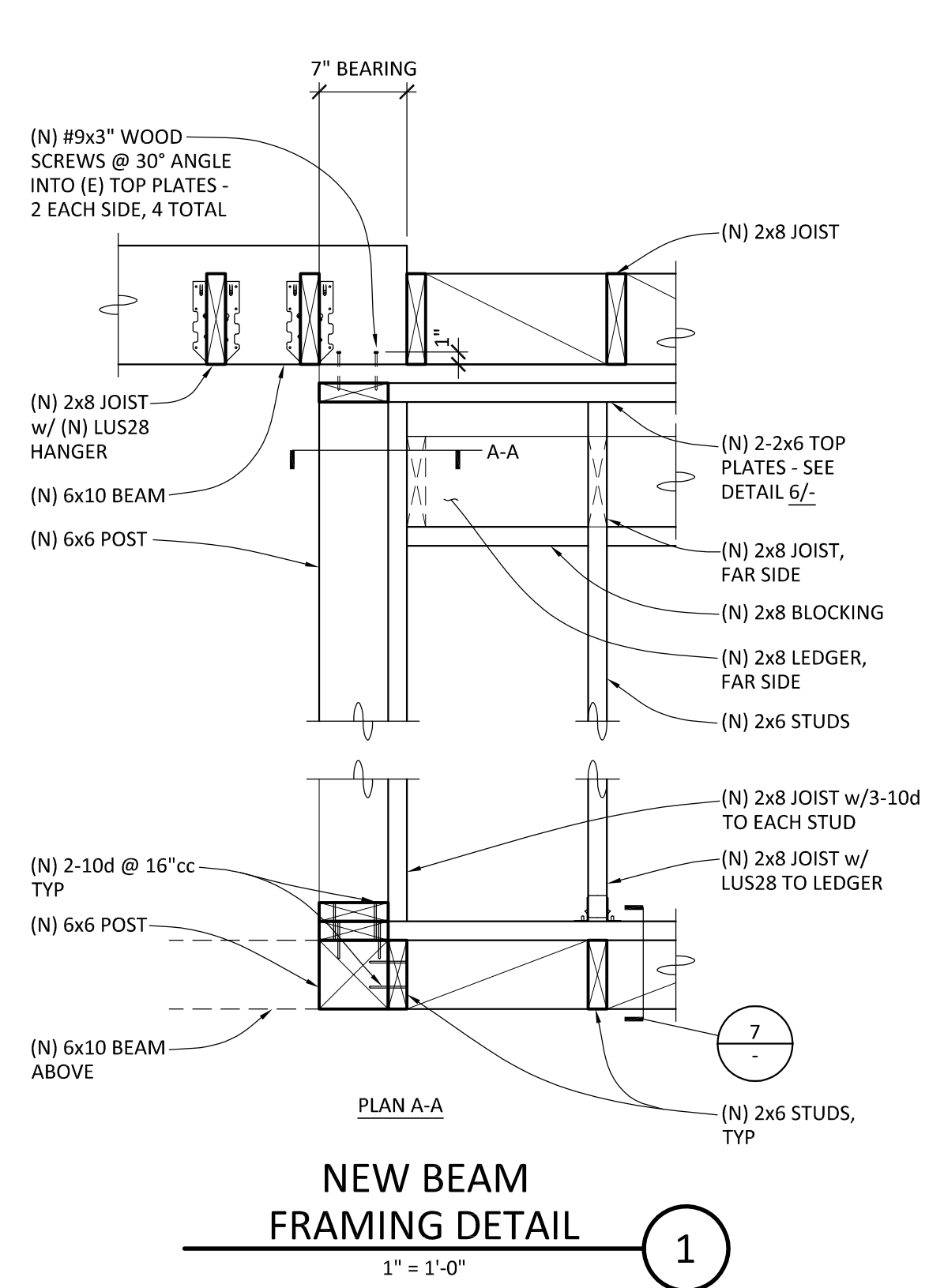
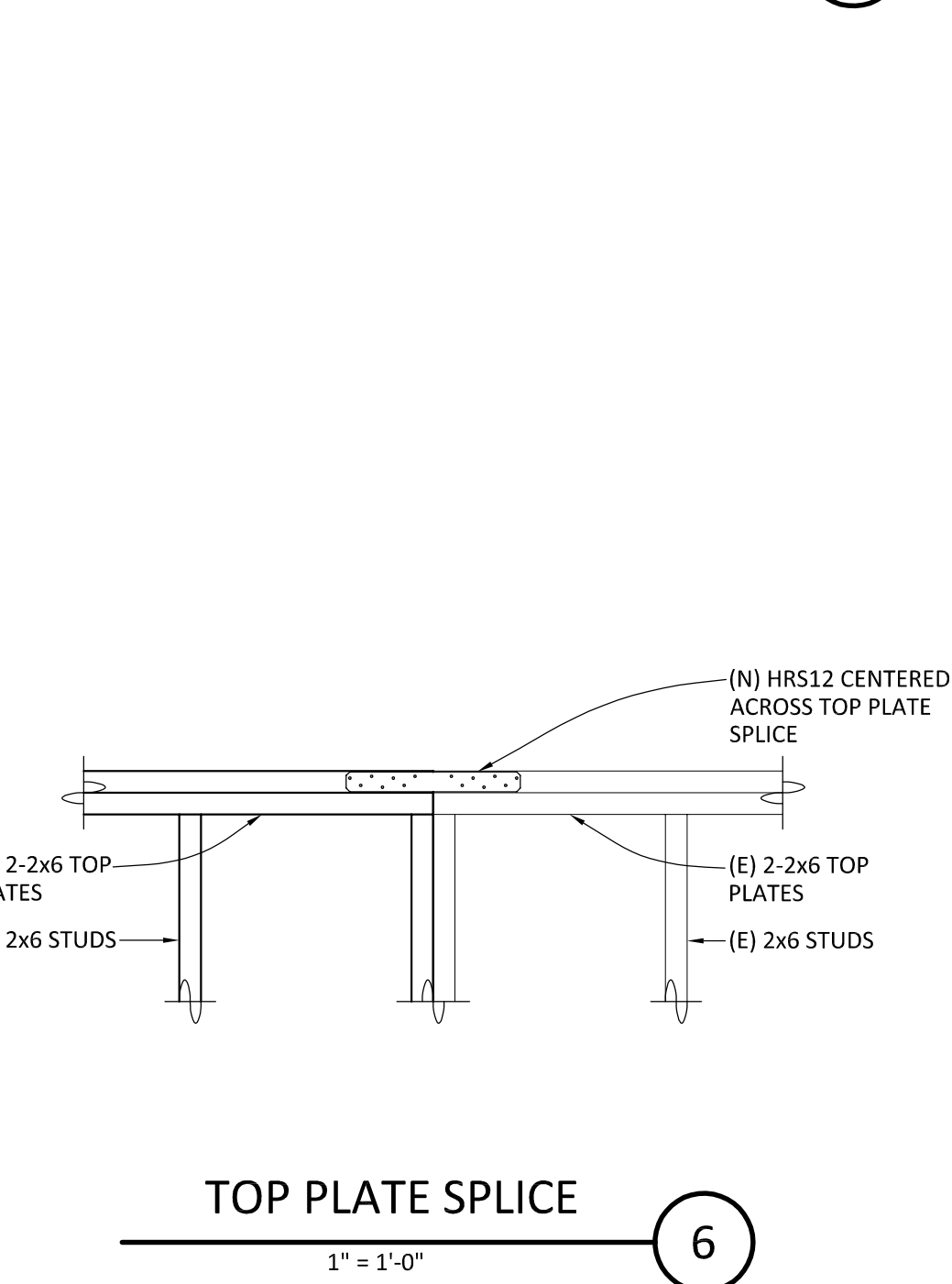
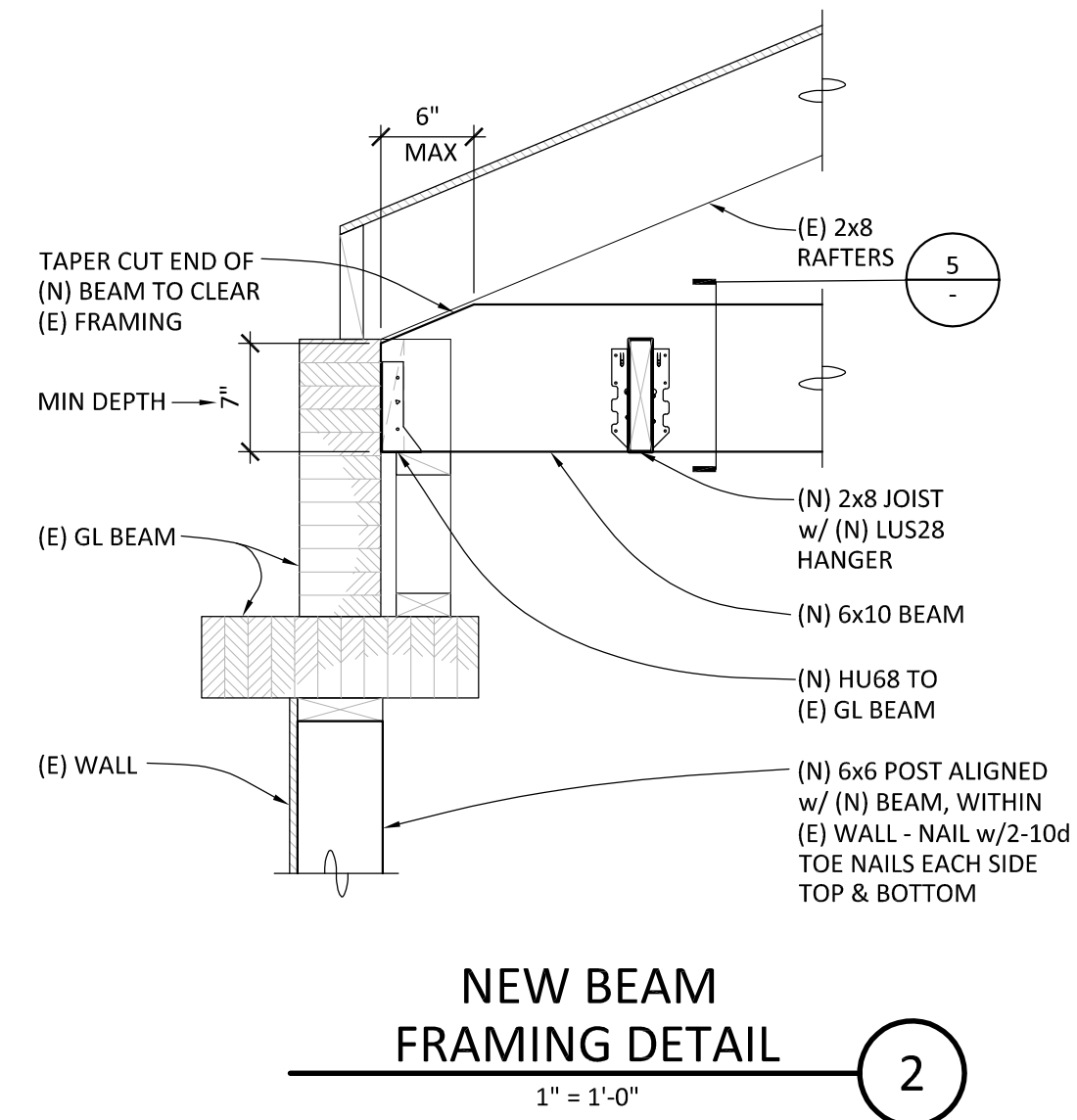
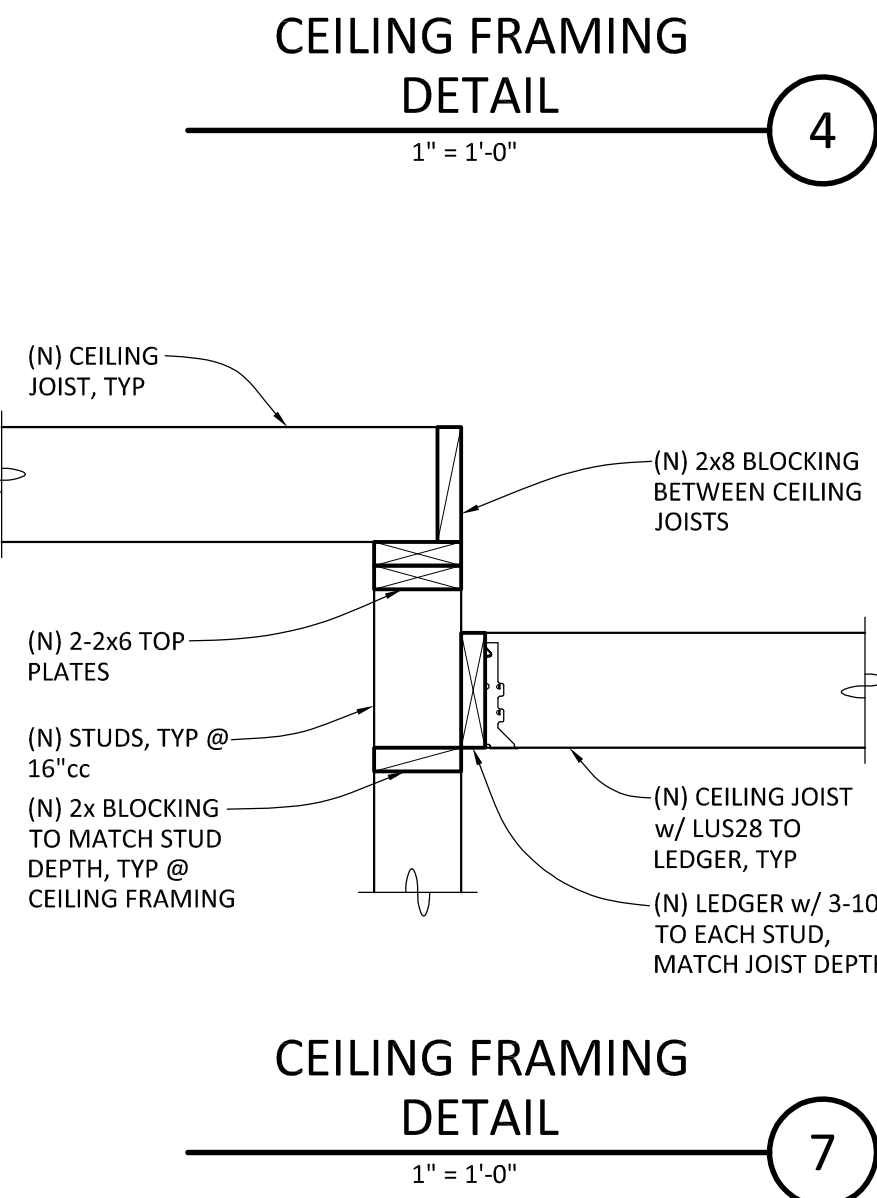
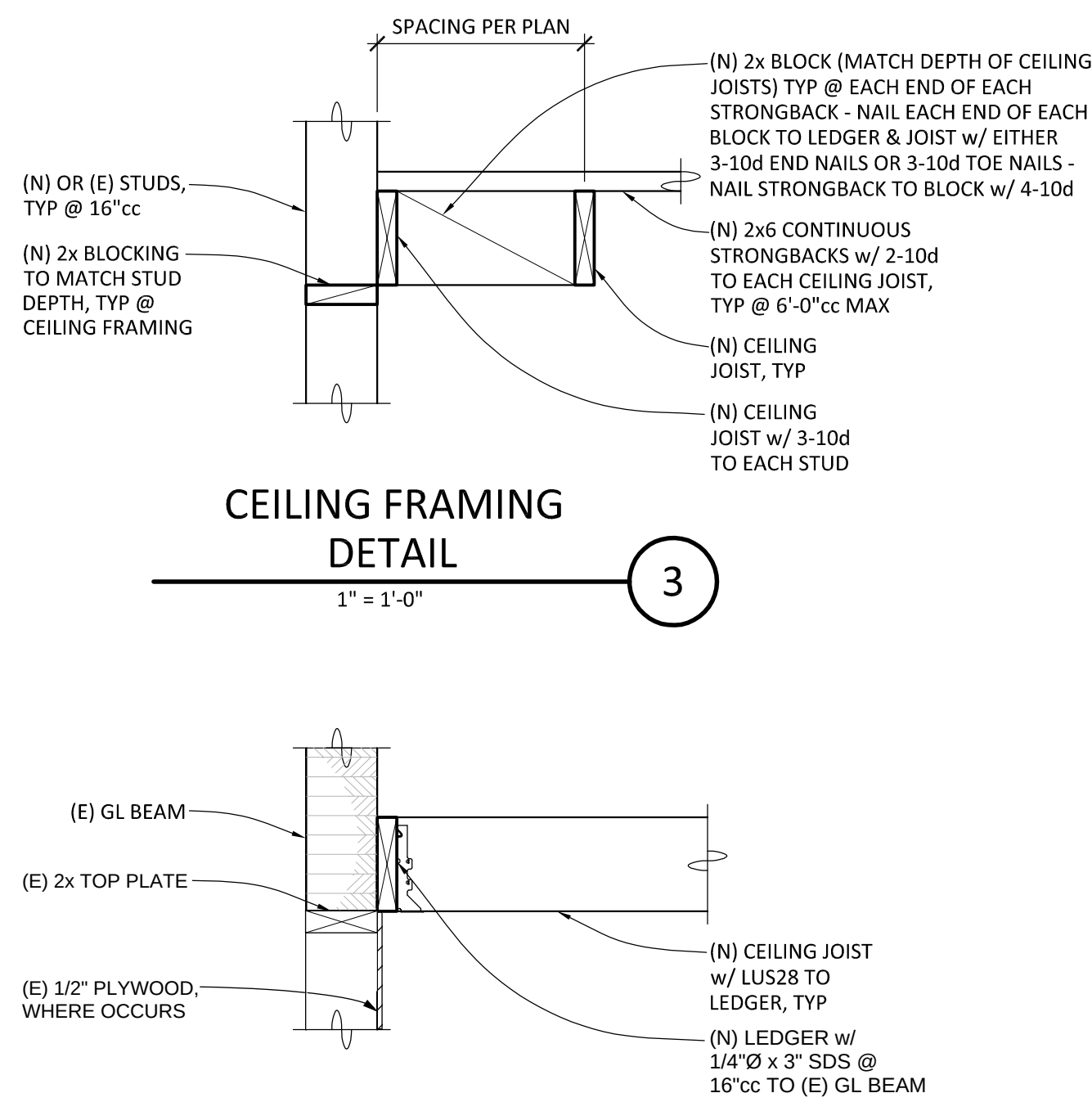
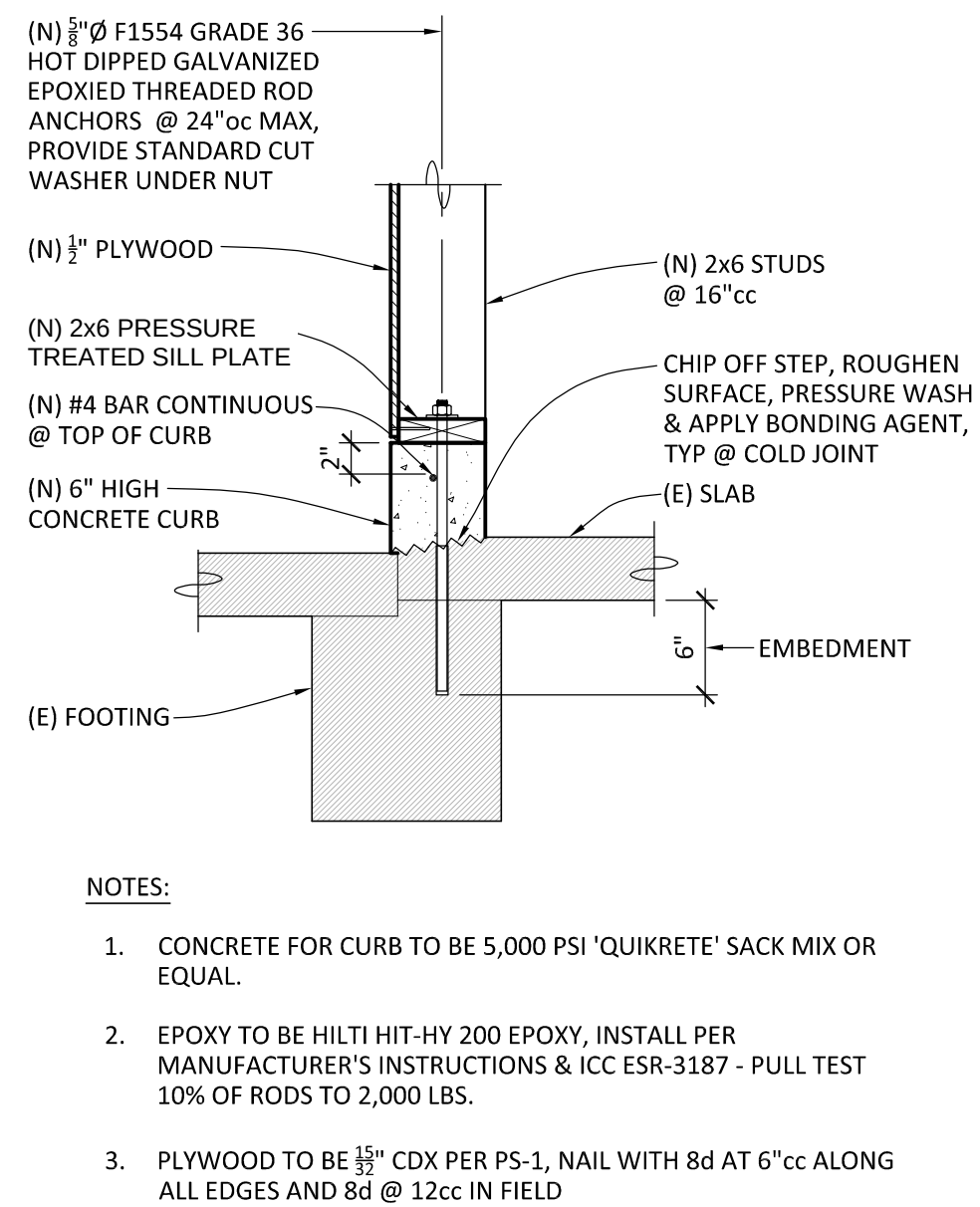
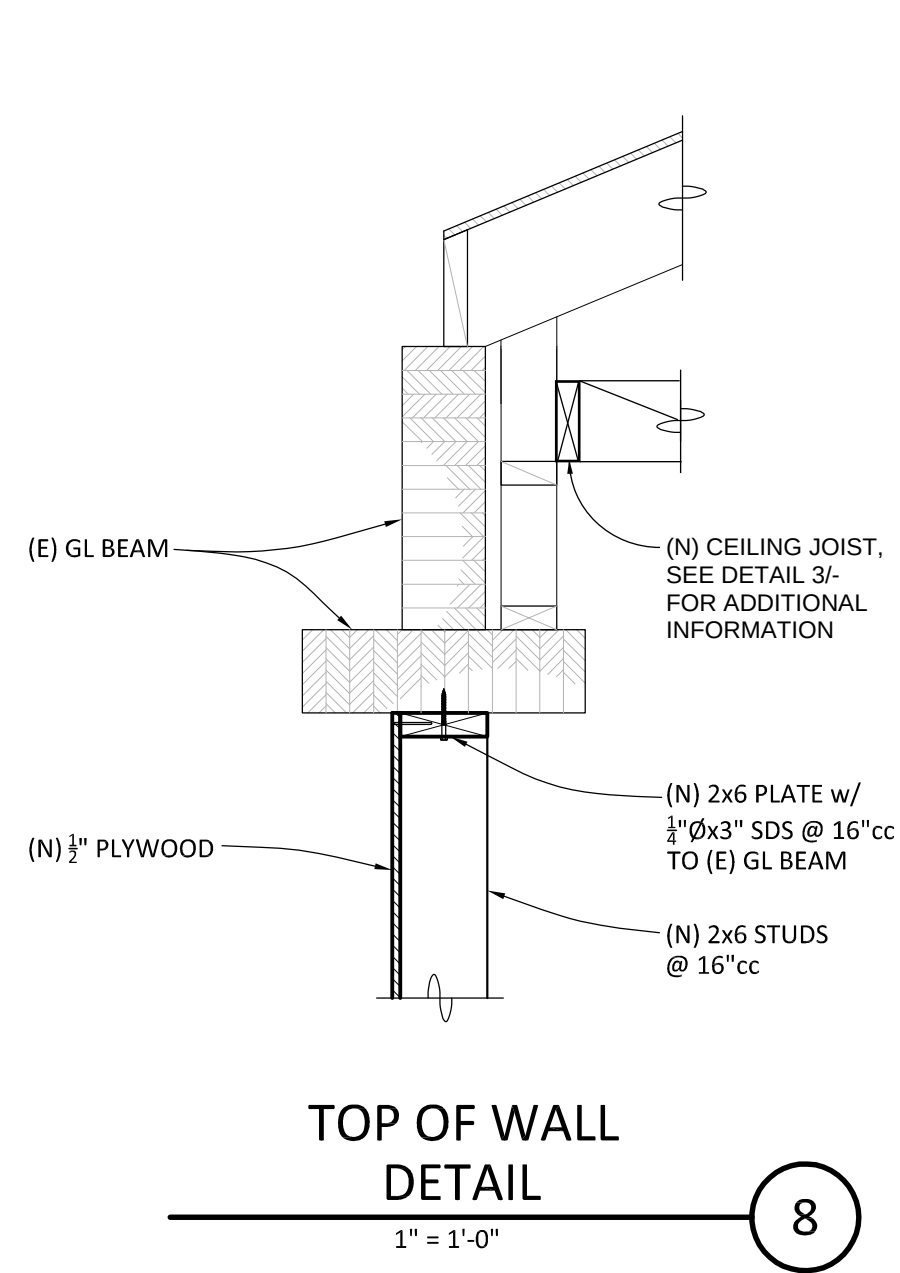


NEW WALL TO
EXISTING SLAB



TOP PLATE SPLICE





DUCT LEGEND		
SINGLE LINE SYMBOL	DOUBLE LINE SYMBOL	DESCRIPTION
		RECTANGULAR DUCT: WIDTH x DEPTH (PLAN VIEW) DEPTH x WIDTH (SECTION VIEW)
		ACOUSTICALLY LINED RECTANGULAR DUCT - DIMENSIONS ARE OUTSIDE
		MANUAL AIR DAMPER
		RISE OR DROP DUCT IN DIRECTION OF AIR FLOW
		RECTANGULAR TO RECTANGULAR TRANSITION OR ROUND TO ROUND TRANSITION, MAX. SLOPE OF 1:3
		RECTANGULAR TO ROUND TRANSITION, MAX. SLOPE OF 1:3
		ELBOW, RECTANGULAR, SMOOTH RADIUS, WITHOUT TURNING VANES
		SQUARE/RECTANGULAR DUCT ELBOW WITH TURNING VANES
		CONVERGING OR DIVERGING TEE, 45° ENTRY, RECTANGULAR MAIN AND BRANCH. WHEN REDUCING MAIN, SIDE OF TAKE OFF OR ENTRY BRANCH TO BE FLAT, OTHER SIDES MAX. SLOPE OF 1:3
		ROUND DUCT TAKE OFF FROM RECTANGULAR VIA SMOOTH CONVERGING BELL MOUTH
		RECTANGULAR DUCT TEE. MAD'S ON THE 2 BRANCHES, THROAT SIZED FOR EQUAL PRESSURE DROP
		RECTANGULAR DUCT SPLIT MAD'S, THROAT SIZED FOR EQUAL PRESSURE DROP
		3-WAY RECTANGULAR SPLIT WITH TWO TRANSITIONAL ELBOWS AND TRANSITIONING MAIN. DOWNSTREAM MAD'S OF THE TREE BRANCHES. THROATS SIZED FOR EQUAL PRESSURE DROP.
		FOR CONCEALED DUCT: DROP TO DIFFUSER SHALL BE FULL SIZE OF DIFFUSER NECK. FOR EXPOSED DUCT: DROP SHALL BE FULL SIZE OF OD DIFFUSER FRAME, FLANGE FOR MOUNTING DIFFUSER TURNED IN. AIR EXTRACTOR AND EQUALIZER GRID AT CONNECTION TO MAIN.
		SUPPLY AIR, SUPPLY DROP/RISE
		RETURN AIR, RETURN AIR DROP/RISE
		EXHAUST AIR, EXHAUST AIR DROP/RISE
		NEW - FLEXIBLE DUCT (ROUND)
		EXISTING - FLEXIBLE DUCT (ROUND)
		45° REDUCING LATERAL FITTING
		90° REDUCING TEE FITTING

HVAC ABBREVIATIONS			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
ABC	ABOVE CEILING	MAT	MIXED AIR TEMPERATURE
ABV	ABOVE	MAU	MAKE-UP AIR UNIT
ACC DR	ACCESS DOOR	MAV	MANUAL AIR VENT
ACC P	ACCESS PANEL	MAX	MAXIMUM
ACU	AIR CONDITIONING UNIT	MBH	THOUSAND BTUs PER HOUR
AFF	ABOVE FINISHED FLOOR	MCA	MINIMUM CIRCUIT AMPACITY
AHU	AIR HANDLING UNIT	MCC	MOTOR CONTROL CENTER
APD	AIR PRESSURE DROP, INCHES WATER COLUMN	MD	MOTORIZED
APPROX	APPROXIMATE	MECH	MECHANICAL
ARCH	ARCHITECTURAL	MFR	MANUFACTURER
ATTEN	ATTENUATORS	MIN	MINIMUM
ATV	ACOUSTIC TURNING VANE	MOCP	MAXIMUM OVERCURRENT PROTECTION
BD	BALANCE DAMPER	OA	OUTSIDE AIR
BDD	BACK DRAFT DAMPER	OAD	OUTSIDE AIR DAMPER
BHP	BRAKE HORSE POWER	OC	ON CENTER
BLDG	BUILDING	OD	OUTSIDE DIAMETER
BOD	BOTTOM OF DUCT	OH	OVERHEAD
BOR	BOTTOM OF REGISTER		
BTUH	BRITISH THERMAL UNITS PER HOUR	PD	PRESSURE DROP
		PSI (G) (A)	POUNDS PER SQUARE INCH (GAUGE) (ABSOLUTE)
CAP	CAPACITY	RA	RETURN AIR
CD	CONDENSATE DRAIN	RAD	RETURN AIR DAMPER
CEF	CEILING EXHAUST FAN	RF	RETURN FAN
CFM	CUBIC FEET OF AIR FLOW PER MINUTE	RPM	REVOLUTIONS PER MINUTE
CHV	CHECK VALVE	RLA	RATED LOAD AMPS
CLG	CEILING	RV	RELIEF VENTILATOR
CLR	CLEAR		
CONC	CONCRETE	S & R	SUPPLY AND RETURN
COND	CONDENSER	SA	SUPPLY AIR
CONN	CONNECT/CONNECTION	SEER	SEASONAL ENERGY EFFICIENCY RATING
CONT	CONTINUATION	SF	SUPPLY FAN
CONTR	CONTRACTOR	SM	SHEET METAL
		SOV	SHUT OFF VALVE
D	DAMPER	SP	STATIC PRESSURE
DIA	DIAMETER	SPD	STATIC PRESSURE DROP
DL	DOOR LOUVER	SQ FT	SQUARE FEET
DN	DOWN	SQ IN	SQUARE INCHES
DB	DRY BULB	SS	STAINLESS STEEL
DTR	DOWN THROUGH ROOF	STRUC	STRUCTURAL
DWG	DRAWING		
		TA	TO ABOVE
EA	EXHAUST AIR	TB	TO BELOW
EAD	EXHAUST AIR DAMPER	T.C.C.	TEMPERATURE CONTROL CONTRACTOR
EDB	ENTERING DRY BULB	TCP	TEMPERATURE CONTROL PANEL
EER	ENERGY EFFICIENCY RATING	TCV	TEMPERATURE CONTROL VALVE
EF	EXHAUST FAN	TEMP	TEMPERATURE
EFF	EFFICIENCY	THK	THICK
EH	EXHAUST HOOD	TP	TOTAL PRESSURE
EL	ELEVATION	TSP	TOTAL STATIC PRESSURE
ELEC	ELECTRIC/ELECTRICAL	TYP	TYPICAL
ENT	ENTERING		
EQUIP	EQUIPMENT	UCD	UNDERCUT DOOR
ESP	EXTERNAL STATIC PRESSURE	UF	UNDERFLOOR
EVAP	EVAPORATOR	UG	UNDERGROUND
EWB	ENTERING WET BULB	UON	UNLESS OTHERWISE NOTED
EXH	EXHAUST	UTR	UP THROUGH ROOF
f	CUBIC FEET OF AIR FLOW PER MINUTE	V (VTR)	VENT (VENT THROUGH ROOF)
F	DEGREES FAHRENHEIT	VLV	VALVE
FA	FROM ABOVE	VRF	VARIABLE REFRIGERANT FLOW
FB	FROM BELOW	VSD	VARIABLE SPEED DRIVE
FC	FLEXIBLE CONNECTION		
FCV	FLOW CONTROL VALVE	W	WATTS
FD	FIRE DAMPER	WB	WET BULB
FIN	FINISH	WC	WATER CLOSET
FLA	FULL LOAD AMPS	WMS	WIRE MESH SCREEN
FLR	FLOOR	WPD	WATER PRESSURE DROP FEET OF WATER COLUMN
FPM	FEET PER MINUTE	WT	WEIGHT
FSD	FIRE AND SMOKE DAMPER		
FT (°)	FOOT OR FEET		
FT	SQUARE FEET		
FV	FACE VELOCITY		
GA	GAUGE		
GALV	GALVANIZED		
GI	GALVANIZED IRON		
GPH	GALLONS PER HOUR		
GPM	GALLONS PER MINUTE		
HC	HEATING COIL		
HP	HORSE POWER		
HTG	HEATING		
IN, (")	INCH		
IN	SQUARE INCHES		
KW	KILOWATTS		
LAT	LEAVING AIR TEMPERATURE		
LBS	POUNDS		
LD	LOUVERED DOOR		
LDB	LEAVING DRY BULB		
LRA	LOCKED ROTOR AMPS		
LTCP	LOCAL TEMPERATURE CONTROL PANEL		
LVR	LOUVER		
LWB	LEAVING WET BULB		
LWT	LEAVING WATER TEMPERATURE		

MECHANICAL GENERAL NOTES	
1. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES, AND INDUSTRY STANDARDS.	
2. VERIFY EXACT LOCATION OF ALL (E) EQUIPMENT, DUCTWORK, DIFFUSERS, REGISTERS, AND GRILLES. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN (E) SYSTEMS AND DRAWINGS.	
3. COORDINATE EXACT LOCATION OF EQUIPMENT AND ALL PENETRATIONS THROUGH ROOF, FLOORS, AND WALLS WITH ARCHITECTURAL STRUCTURAL SYSTEMS PRIOR TO COMMENCING WORK.	
4. COORDINATE EXACT SIZE AND ROUTING OF DUCTWORK WITH ARCHITECTURAL PLANS, STRUCTURE, AND EQUIPMENT PRIOR TO COMMENCING WORK.	
5. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS, AND GRILLES.	
6. FURNISH AND INSTALL MANUAL AIR DAMPERS AT ALL DUCT BRANCH TAKEOFFS TO A SINGLE SUPPLY DIFFUSER.	
7. FLEXIBLE DUCTWORK CONNECTIONS TO CEILING DIFFUSERS ARE LIMITED TO 5' MAXIMUM LENGTH.	
8. ALL DUCTWORK, CEILING DIFFUSERS/REGISTERS/GRILLES, EQUIPMENT, PIPING, ETC. ARE NEW U.O.N. (SHOWN HEAVY). (E) DUCTWORK, PIPING, ETC. IS SHOWN LIGHT. SEE LEGEND.	
9. (E) DUCTWORK AND ITEMS TO BE REMOVED ARE SHOWN CROSSED ("X") OUT. SEE LEGEND. COORDINATE CLOSELY WITH (N) DUCTWORK AND P.O.C.'S SHOWN. ALL OTHER (E) DUCTWORK, ETC. TO REMAIN.	
10. WHERE INLET DUCT DIAMETER AND DIFFUSER NECK SIZE ARE THE SAME (I.E. 9"ø AND 9x9) CONTRACTOR SHALL OVERSIZE THE SHEET METAL PLENUM TO ACCOMMODATE THE ROUND DUCT CONNECTION.	
11. THERMOSTATS SHALL BE INSTALLED AT 48" ABOVE FINISHED FLOOR (TO TOP OF DEVICE). DO NOT INSTALL THERMOSTATS ABOVE CASEWORK, SHELVING, OR OTHER OBSTRUCTIONS OVER 24" IN DEPTH AND 34" IN HEIGHT.	
12. PASSAGES SHALL NOT BE OBSTRUCTED BY REFRIGERANT PIPING. REFRIGERANT PIPING SHALL NOT BE LOCATED IN AN ELEVATOR, DUMBWAITER, OR OTHER SHAFT CONTAINING A MOVING OBJECT, OR IN A SHAFT THAT HAS OPENINGS TO LIVING QUARTERS, OR TO MEANS OF EGRESS. REFRIGERANT PIPING SHALL NOT BE INSTALLED IN AN ENCLOSED PUBLIC STAIRWAY, STAIR LANDING, OR MEANS OF EGRESS.	

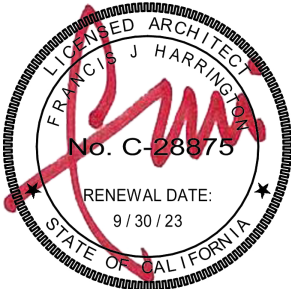
MEP COMPONENT ANCHORAGE NOTE	
ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 29 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 FOR 110/220 VOLT RECEPTACLES HAVING FLEXIBLE CABLE. 3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF THAT DIRECTLY SUPPORT THE COMPONENT ARE REQUIRED TO BE RETRAINED WITH TEMPORARY ATTACHMENTS.	
THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT. B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTION SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.	
FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.	

PIPING, DUCTWORK, & ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE	
PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO RESIST THE FORCES PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25, AND 1617A.1.26.	
THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON PREAPPROVED INSTALLATION GUIDE (E.G., SMACNA OR OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.	
MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E): MP □ MD □ PP □ E □ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS MP ✕ MD ✕ PP □ E □ OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM #) #0043-13.	

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120870 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 02/23/2023

HARRINGTON
DESIGN
ASSOCIATES

5875 PACIFIC STREET, SUITE E2
ROCKLIN, CA 95677 (916) 577-5789
www.HarringtonDA.com



ARCHITECT

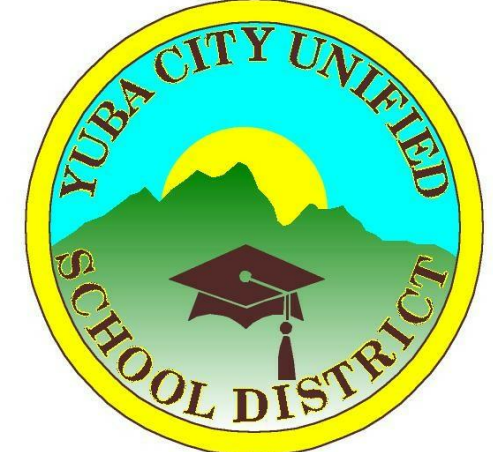
CAPITAL
engineering

RANCHO CORDOVA, CALIFORNIA
JGH - DY, NH, JH 221205.00
PM - DESIGN TEAM PROJECT NO.



DATE SIGNED: 1/30/2023

ENGINEER



OWNER

ADMINISTRATION OFFICE REMODEL

APRIL LANE ELEMENTARY SCHOOL

800 April Lane,
Yuba City, CA 95991

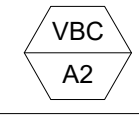
REVISIONS

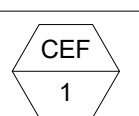
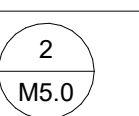
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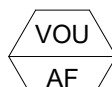
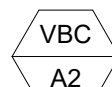
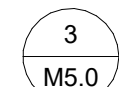
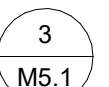
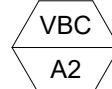
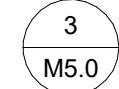
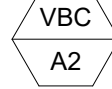
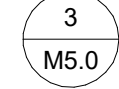
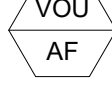
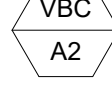
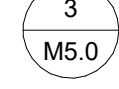
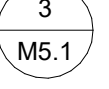
HVAC LEGENDS & NOTES

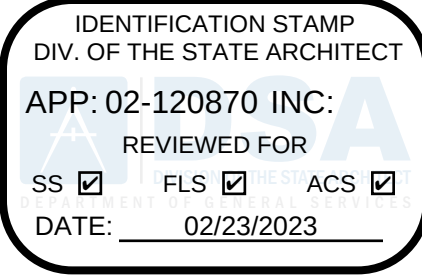
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DIFFUSER, REGISTER & GRILLE SCHEDULE						
SYMBOL	DESCRIPTION	KRUEGER	METALAIRE	NAILOR	TITUS	TUTTLE & BAILEY
CD 	MODULAR CORE SURFACE MOUNT CEILING DIFFUSER BEVEL FRAME 3/4" DROP	1240 FRAME 21 - 1-1/4"	9000-2	7500-S	MCD BORDER TYPE 6	SQD-SB
CR 	CEILING RETURN, TRANSFER OR EXHAUST WITH 1/2" EGG GRATE CORE SURFACE MOUNT	EGC-5	CCSD	61 EC-S	MODEL 50 F BORDER TYPE 1	CRE500-SF
NOTES: 1. ALL SYMBOLS NOTED MAY NOT BE USED. REFER TO PLANS FOR SIZE AND QUANTITY. 2. ALL SUPPLY AIR DIFFUSERS ARE 4 WAY BLOW UNLESS SHOWN OTHERWISE. 3. FURNISH ALL PRODUCTS OF A SINGLE MANUFACTURER. 4. COORDINATE DIFFUSER TYPE WITH ARCHITECTURAL REFLECTED CEILING PLAN. 5. OPPOSED BLADE DAMPERS ARE NOT REQUIRED AT DIFFUSERS, REGISTERS OR GRILLES. 6. PROVIDE MANUAL AIR DAMPERS AT EACH BRANCH DUCT TO A SINGLE DIFFUSER, REGISTER OR GRILLE.						

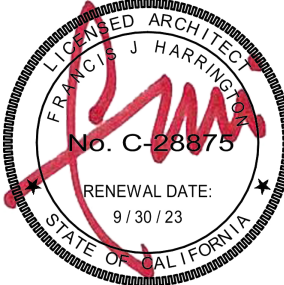
(E) BRANCH CONTROLLER SCHEDULE						
UNIT	"LG" MODEL NO. (INDOOR UNIT)	LOCATION	ELECTRICAL DATA		OPER. WT. (LBS.)	NOTES
			VOLT/PH	RLA		
	PRHR043A	105 NURSE	208V/1	0.2	50	1, 2
NOTES: 1. REFER TO PIPING AND WIRING DWGS. 1/M5.1 & 2/M5.1 FOR REFRIGERANT PIPING SIZES. 2. BRANCH CONTROLLER TO REMAIN IN EXISTING LOCATION, SCHEDULE FOR REFERENCE ONLY.						

EXHAUST FAN SCHEDULE														
UNIT	LOCATION	"GREENHECK" MODEL NO.	CFM	ESP (IN. W.G.)	DUTY	STYLE	RPM	WATTS	FLA	VOLT/PH	OPER. WT. (LBS.)	MOUNTING DETAIL	CONTROL DIAGRAM	NOTES
	RR 104	SP-A90	75	0.25	E	CE	876	14	0.17	115/1	20		LIGHTS INTERLOCK	1, 2
LEGEND DUTY: S-SUPPLY, R-RETURN, E-EXHAUST STYLE: CE-CEILING NOTES: 1. PROVIDE FAN WITH MANUFACTURER'S SPEED CONTROLLER, BACKDRAFT DAMPER AND STANDARD GRILLE ACCESSORY. 2. PROVIDE WITH "GREENHECK" RFC-7 FLAT ROOF FLASHING FLANGE FOR DISCHARGE THRU ROOF. RFC-7 INCLUDES INTEGRAL BIRDSCREEN.														

(E) VRF FAN COIL UNIT SCHEDULE																
UNIT	LOCATION	"LG" MODEL NO. (INDOOR UNIT)	CFM	MIN. OA (CFM)	ESP (IN. WG)	TOTAL COOLING CAPACITY (BTUH)	SENSIBLE COOLING CAPACITY (BTUH)	HEATING CAPACITY (BTUH)	ELECTRICAL DATA		CONNECTED TO OUTDOOR UNIT	CONNECTED TO BRANCH SELECTOR	OPER. WT. (LBS.)	MOUNTING DETAIL	CONTROL DIAGRAM	NOTES
									VOLT/PH	FAN (RLA)						
	108 VICE PRINCIPAL	ARNU053TRD4	200	N/A	N/A	5290	3702	5365	208V/1Ø	0.2			40			1 THRU 5
	106 RECEPTION	ARNU123TNA4	400	N/A	N/A	11831	8724	11962	208V/1Ø	0.56			70			1 THRU 5
	105 NURSE	ARNU053TRD4	200	N/A	N/A	5290	3702	5365	208V/1Ø	0.2			40			1 THRU 5
	107 PRINCIPAL	ARNU053TRD4	250	N/A	N/A	5290	3702	5365	208V/1Ø	0.2			40			1 THRU 5
NOTES: 1. SCHEDULE OF (E) EQUIPMENT IS PROVIDED FOR REFERENCE ONLY BASED ON RECORD DRAWINGS. CONTRACTOR TO VERIFY INSTALLED EQUIPMENT MATCHES SCHEDULE. 2. CONTRACTOR TO CLEAN WASHABLE AIR FILTER AT COMPLETION OF CONSTRUCTION. 3. REFER TO MECHANICAL PIPING & WIRING DIAGRAMS DWG. 1/M5.1 & 2/M5.1 REFRIGERANT PIPING SIZES. 4. OUTSIDE AIR SUPPLY PROVIDED TO SPACE BY SEPARATE DOAS SYSTEM AS SHOWN ON PLANS. 5. RECONNECT VRF FAN COILS TO (E) CONTROLS SYSTEM IN BUILDING.																



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DATE SIGNED: 1/30/2023

ENGINEER



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ADMINISTRATION
OFFICE REMODEL

APRIL LANE
ELEMENTARY SCHOOL

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Yuba City, CA 95991

REVISIONS

DATE: December 30, 2022

HVAC SCHEDULES

M0.2

NEW WORK KEYNOTES:

- 1 NEW REFRIGERANT PIPING CONNECTING BRANCH CONTROLLER AND FAN COILS. SEE 1/M5.1 FOR QUANTITY OF PIPES AND SIZES.
- 2 RELOCATE (E) LG THERMOSTAT TO LOCATION AS SHOWN AND RECONNECT ALL CONTROLS.
- 3 6"ø EA UP THRU ROOF TO "GREENHECK" RFC-7 FLAT ROOF FLASHING FLANGE ACCESSORY. CONTRACTOR TO COORDINATE LOCATION ON FLAT ROOF TO BE MINIMUM 10'-0" FROM ANY OUTSIDE AIR OPENINGS.

DEMOLITION KEYNOTES:

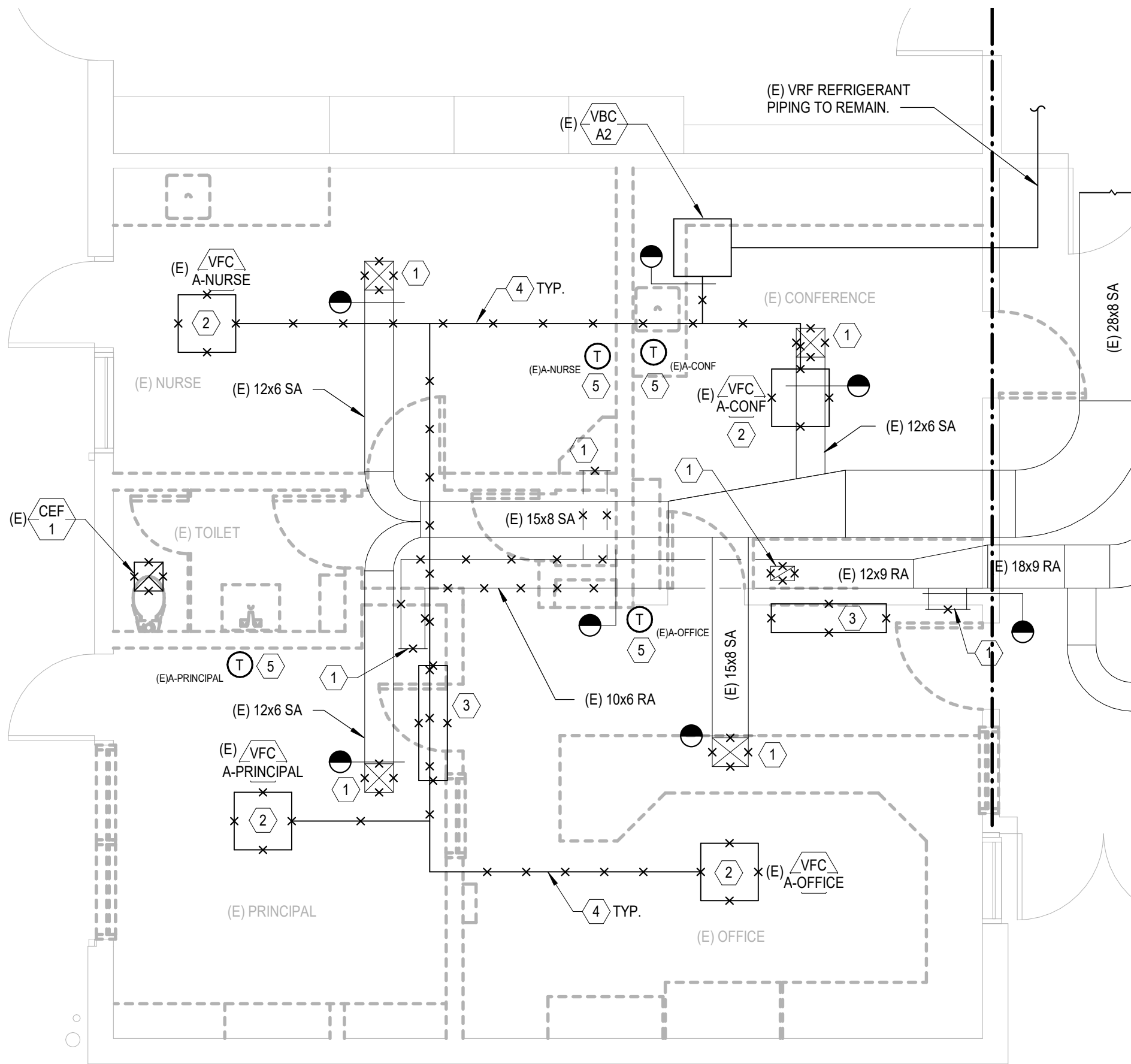
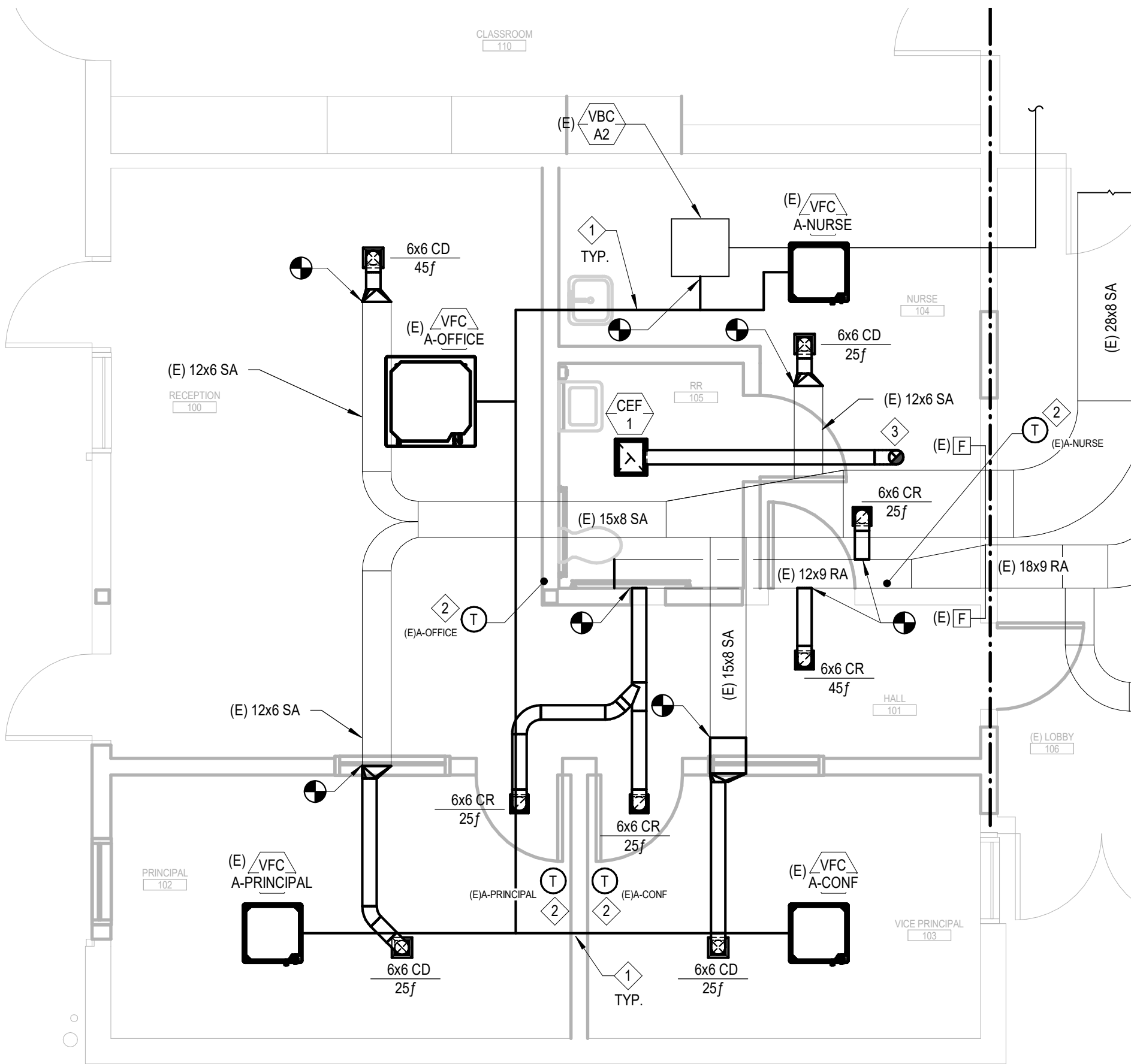
- 1 EXISTING DIFFUSER TO BE REMOVED.
- 2 EXISTING CASSETTE-STYLE VRF FAN COIL TO BE REMOVED. FAN COIL TO BE SAVED FOR RE-INSTALLATION IN NEW LOCATION.
- 3 DEMOLISH (E) WALL-MOUNTED SPLIT SYSTEM AND ASSOCIATED OUTDOOR UNIT ON ROOF. DEMO ALL CONNECTING REFRIGERANT PIPING, THERMOSTAT, AND ANY OTHER ACCESSORIES.
- 4 DEMOLISH ALL REFRIGERANT PIPING BETWEEN BRANCH CONTROLLER VBC-A2 AND VRF FAN COIL UNITS.
- 5 EXISTING LG THERMOSTAT TO BE REMOVED AND SAVED FOR RE-INSTALLATION IN NEW LOCATION.
- 6 DEMO (E) CEILING EXHAUST FAN AND DISCHARGE UP THRU ROOF.

GENERAL NOTES:

- 1. THE DESIGN HAS BEEN BASED ON RECORD DRAWINGS AND SITE OBSERVATIONS. CONTRACTOR SHALL PERFORM INVESTIGATION OF EXISTING CONDITIONS PRIOR TO INSTALLATION OF NEW WORK. CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY OF EXISTING CONDITIONS THAT MAY NOT ALLOW INSTALLATION OF NEW WORK AS SHOWN.
- 2. ALL NEW DUCTWORK IS 6"ø U.O.N.
- 3. FOR TYPICAL CONCEALED DUCTWORK SUPPORT, REFER TO DETAIL 4/M5.0.
- 4. FOR TYPICAL RETURN, EXHAUST, & SUPPLY REGISTER MOUNTING, REFER TO DETAIL 1/M5.0.

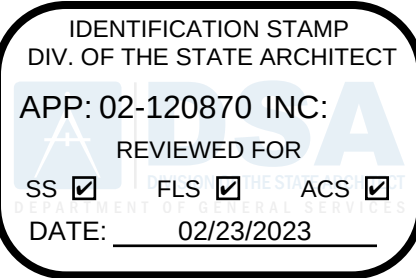
LEGEND:

1 HR OCCUPANCY SEPARATION.

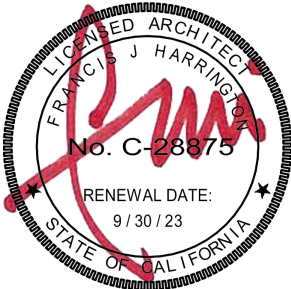


1 HVAC FLOOR PLAN
M2.0 SCALE: 1/4" = 1'-0"

2 HVAC DEMO FLOOR PLAN
M2.0 SCALE: 1/4" = 1'-0"



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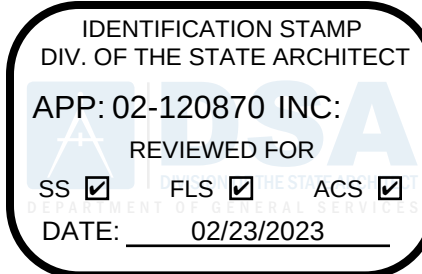
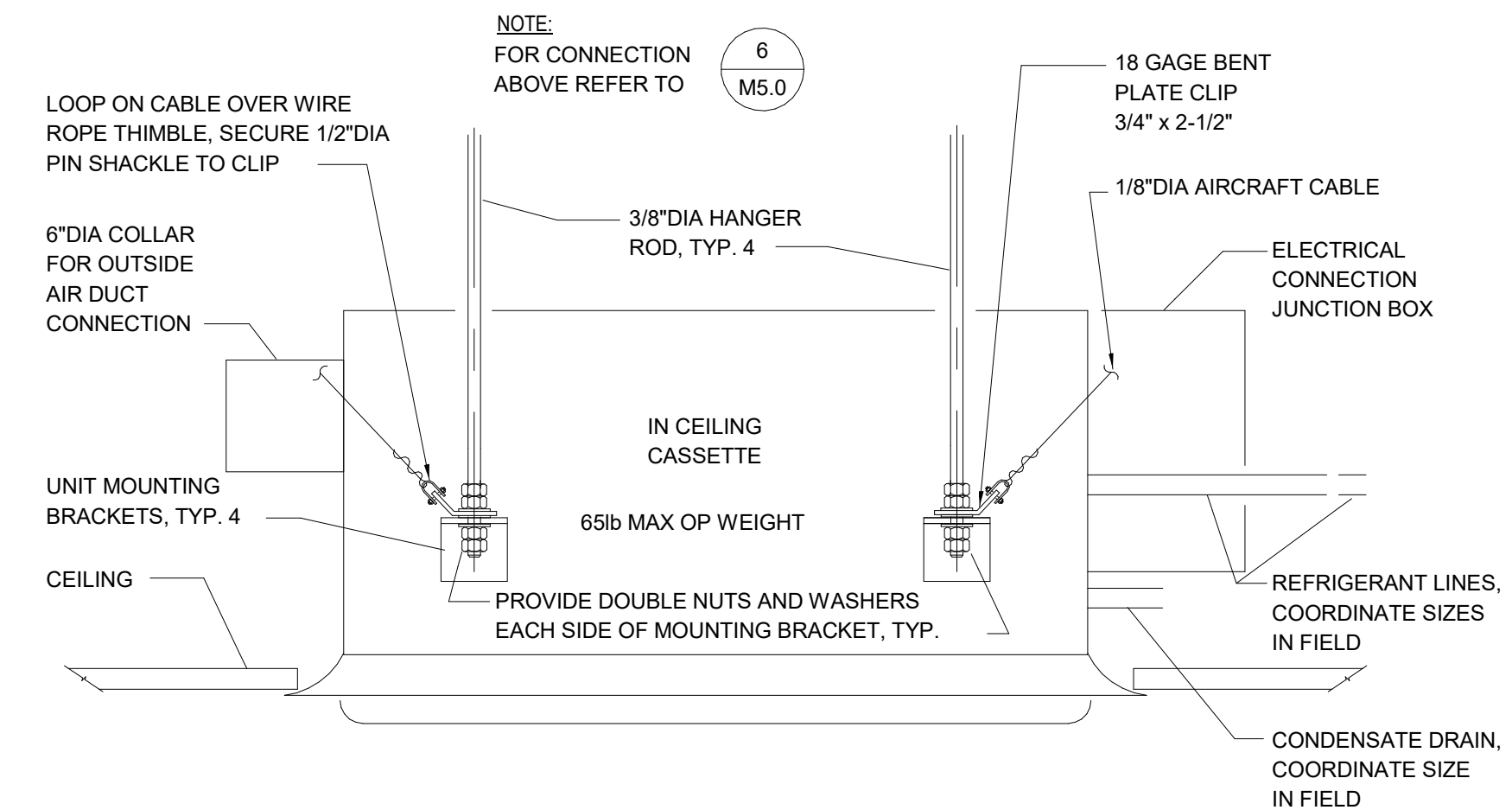
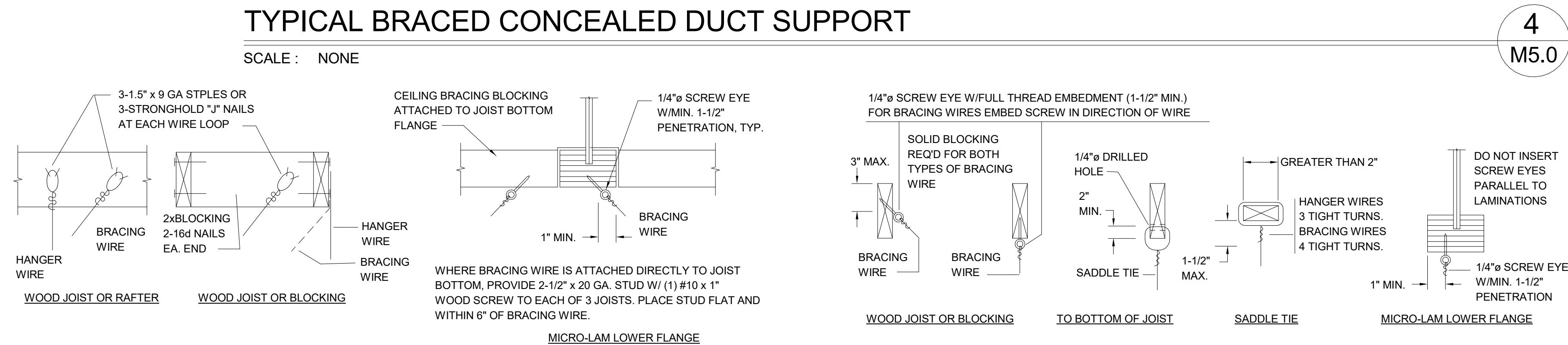
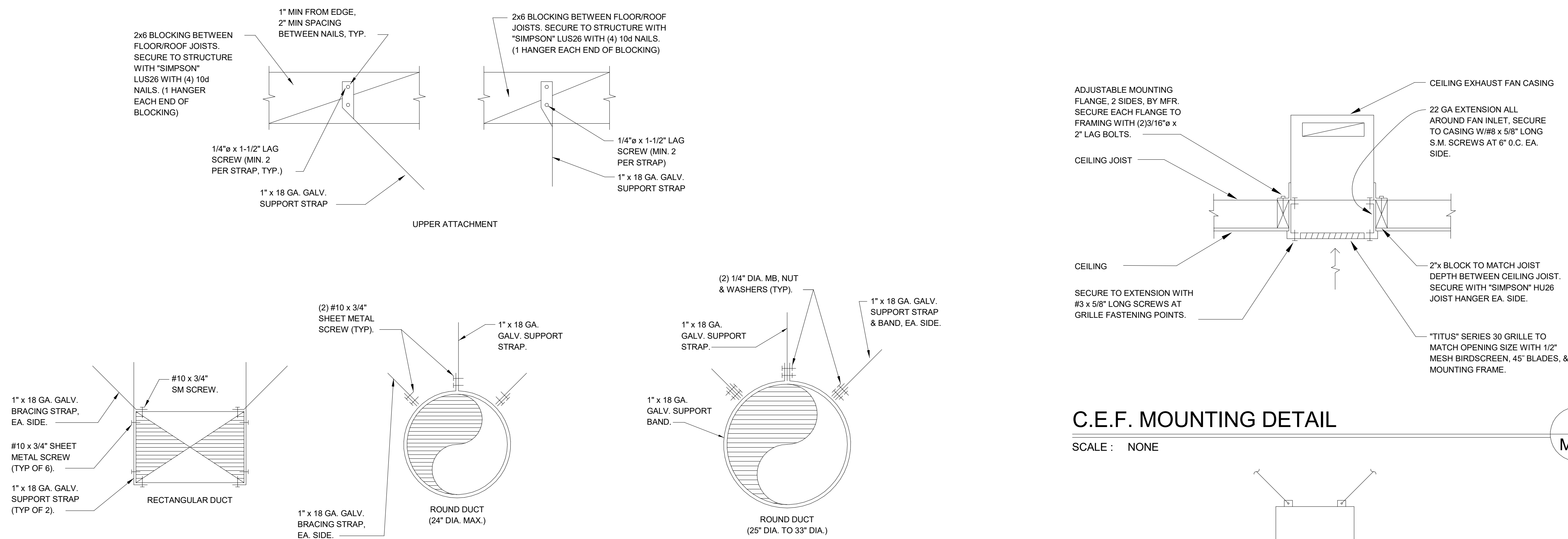
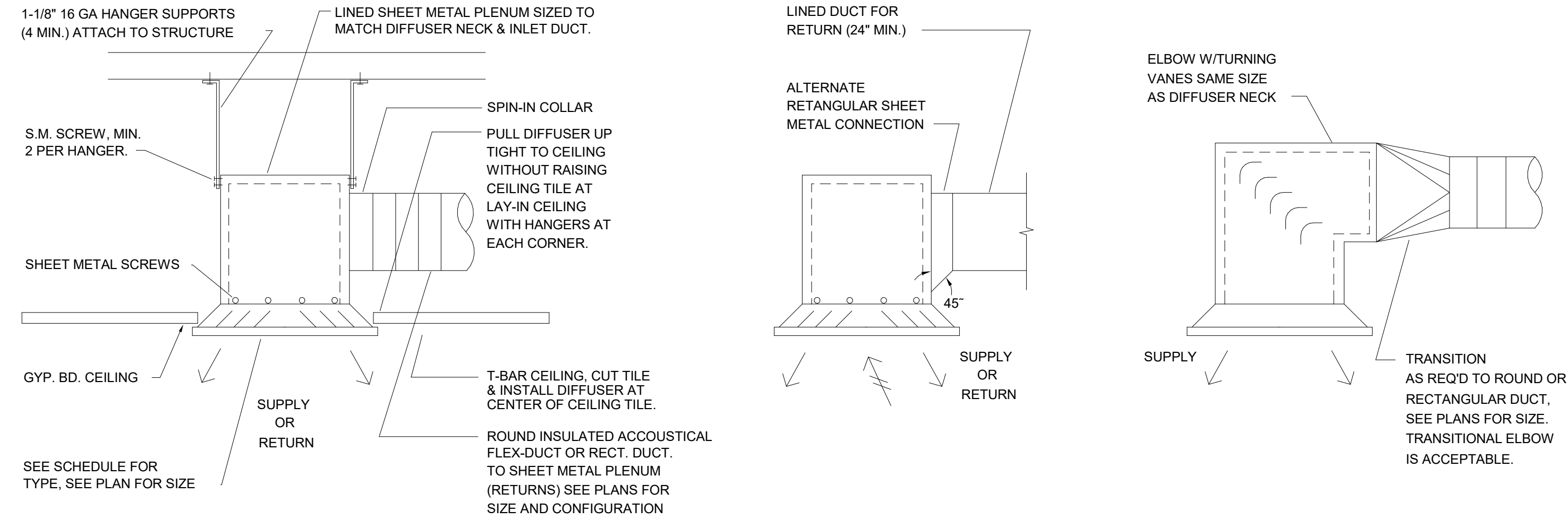
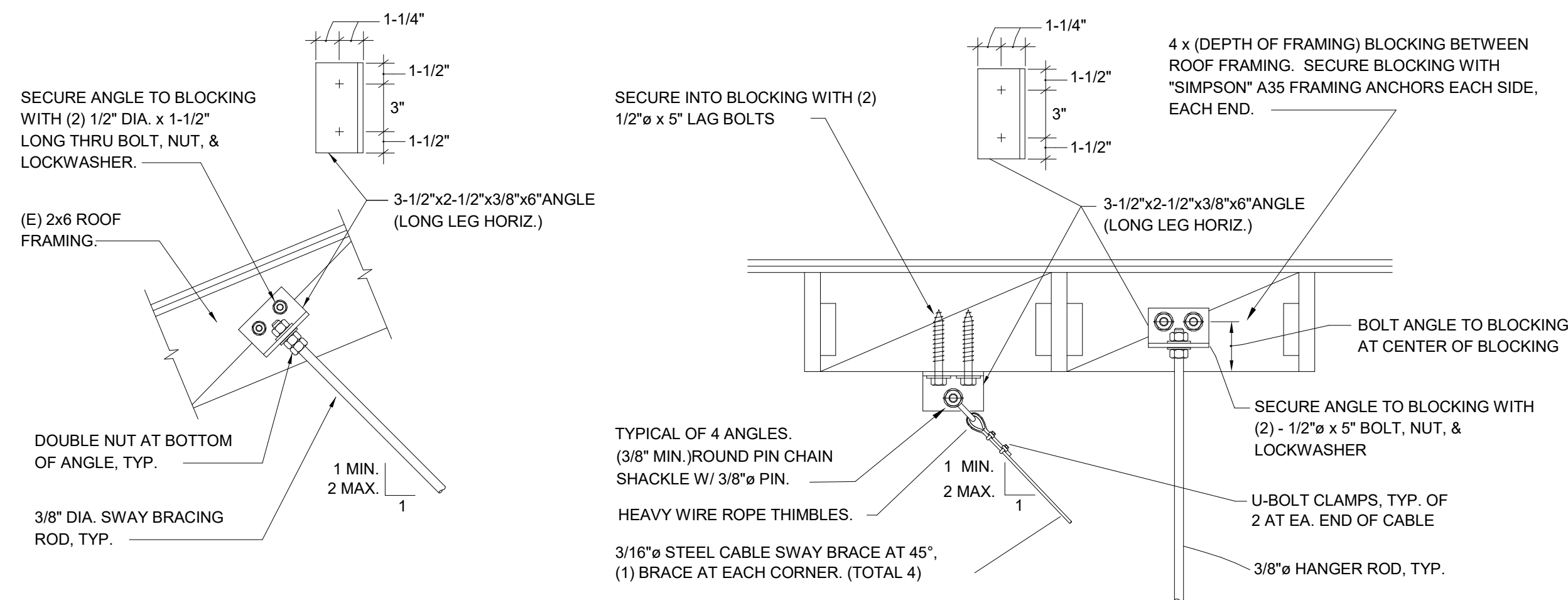
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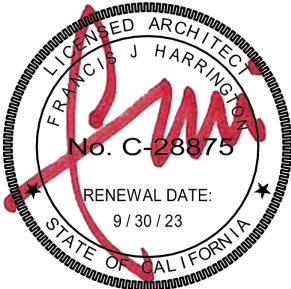
HVAC FLOOR
PLANS

M2.0

JOB NO. 2149.00



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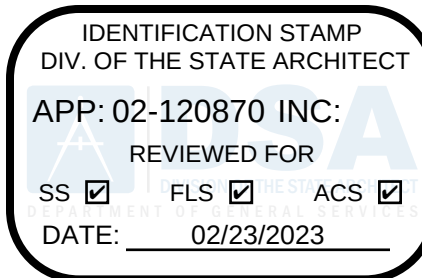
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HVAC DETAILS

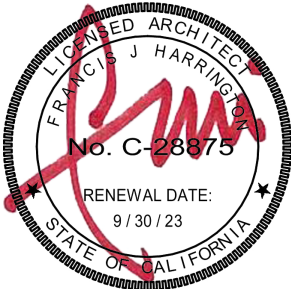
M5.0

JOB NO. 2149.00



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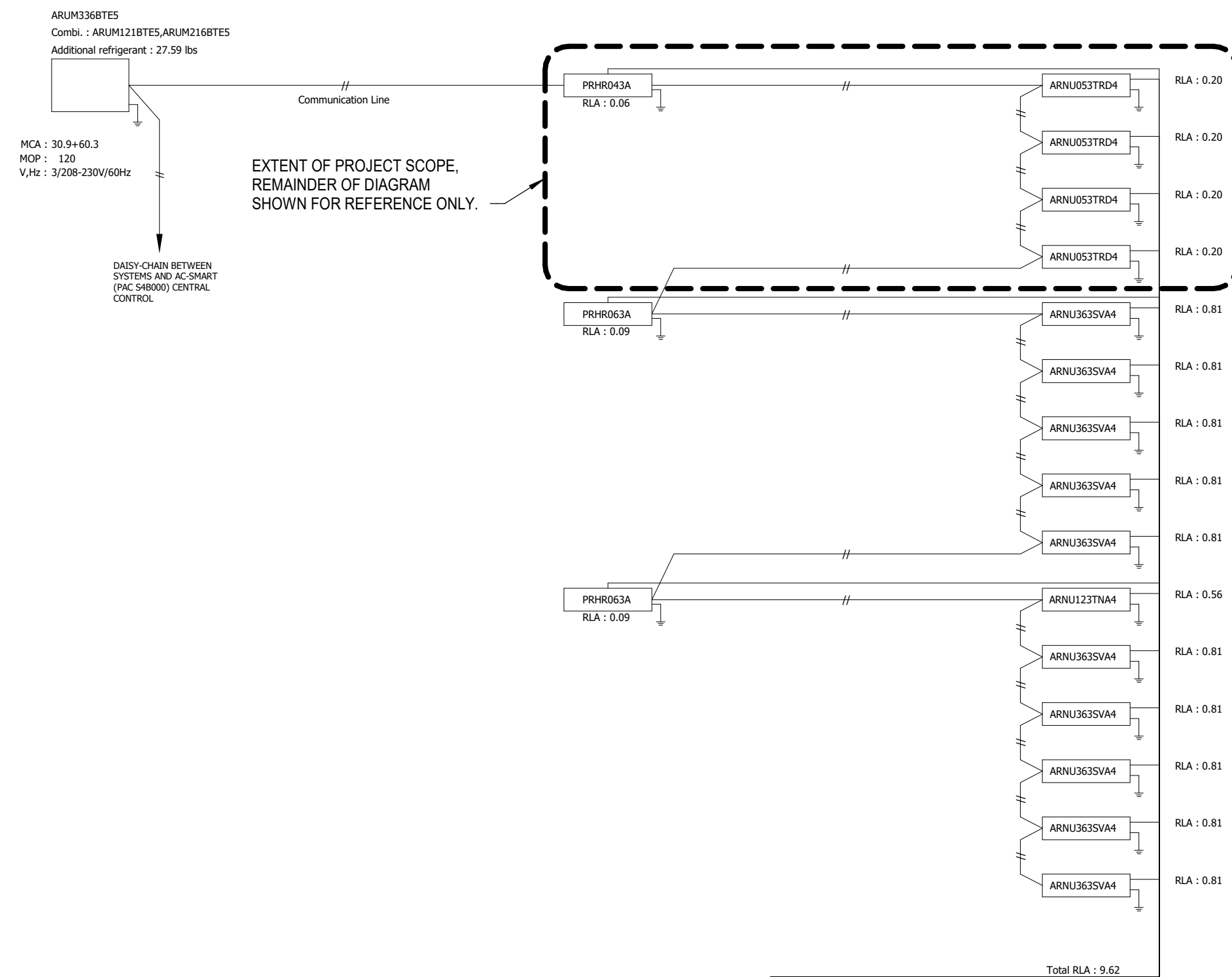
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HVAC CONTROLS & PIPING DIAGRAMS

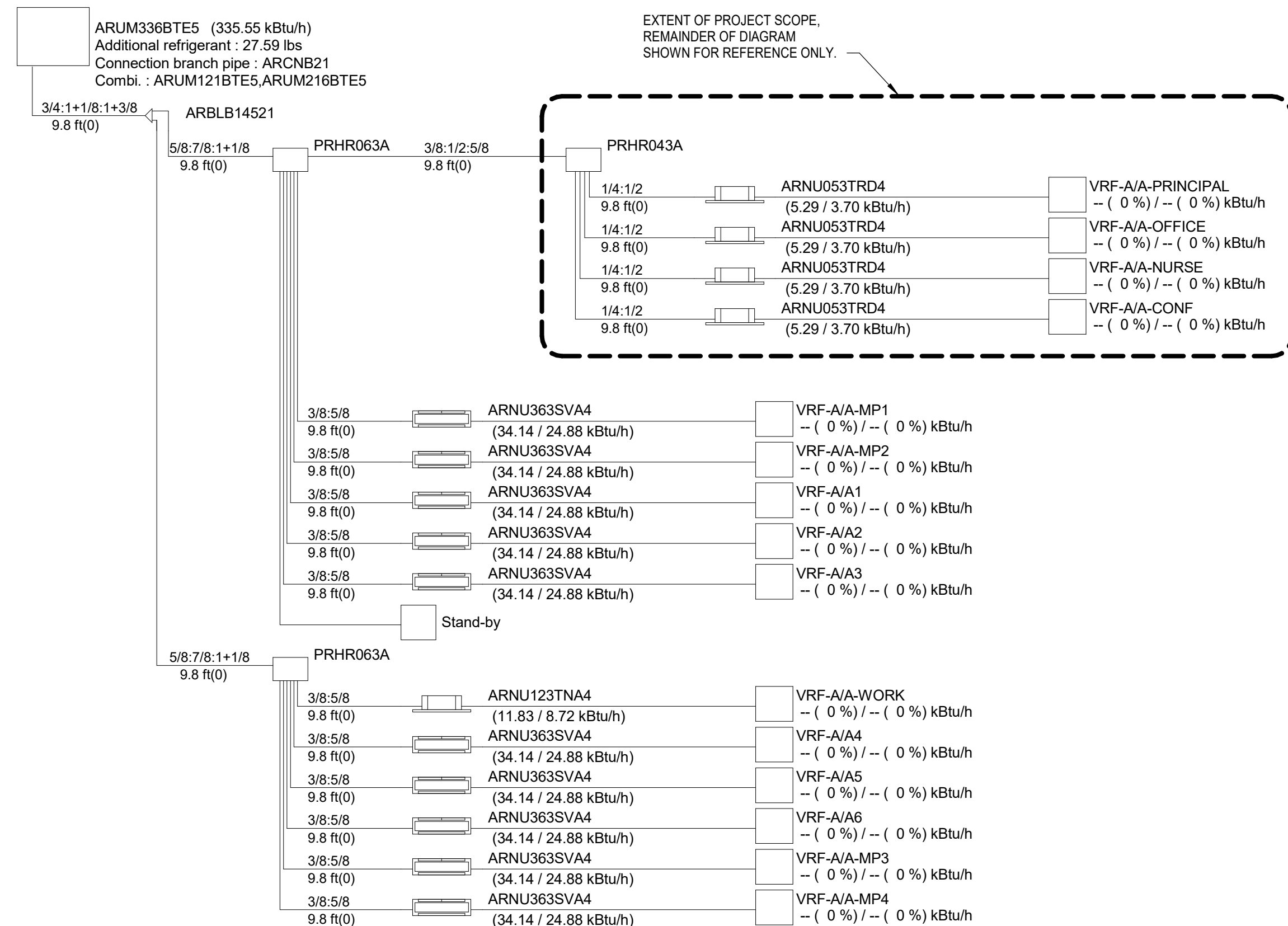
M5.1



NOTE:
POWER WIRING, BREAKER SIZE, AND DISCONNECTS SHALL FOLLOW LOCAL CODE OF NEC.
MULTI-FRAME OUTDOOR UNIT MODELS REQUIRE A SEPARATE POWER CONNECTION FOR EACH FRAME.
REFER TO THE MOST CURRENT SUBMITTAL SHEETS FOR APPLICABLE ELECTRICAL DATA.

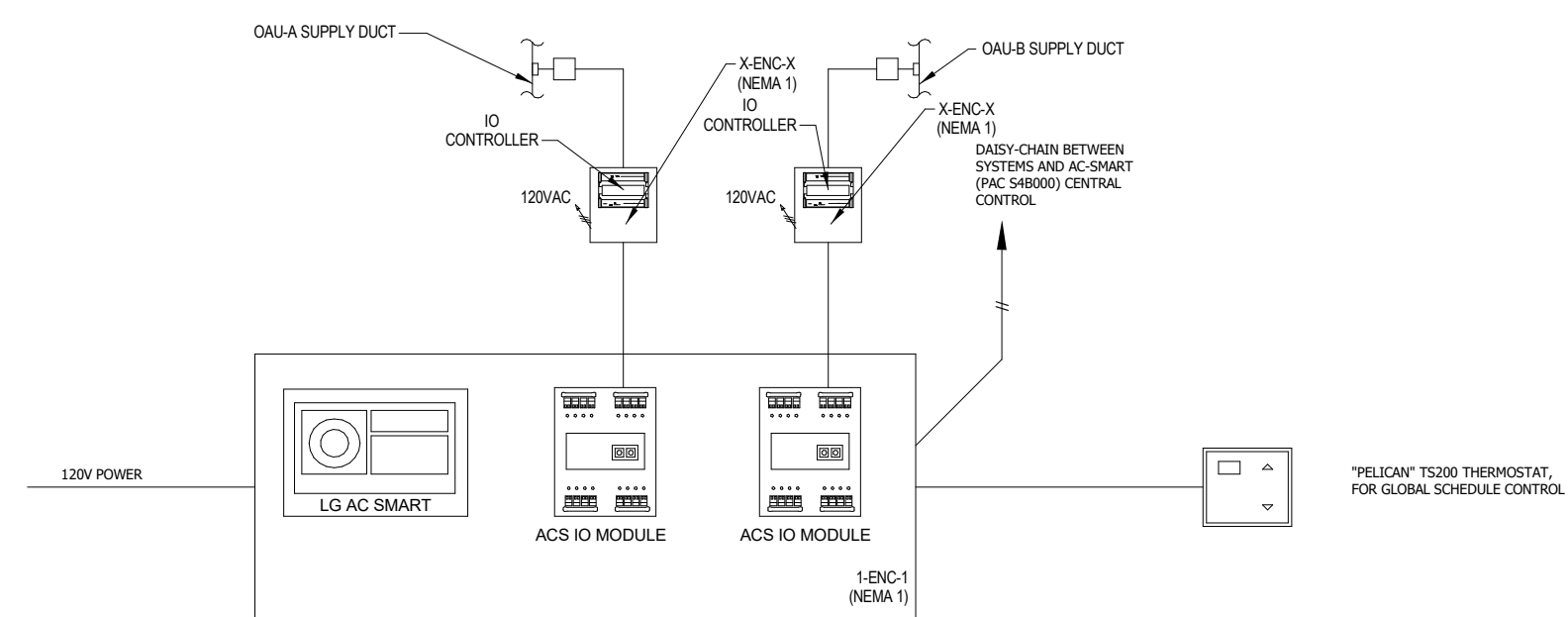
VRF-A DIAGRAM

SCALE : NONE



VRF-A TREE

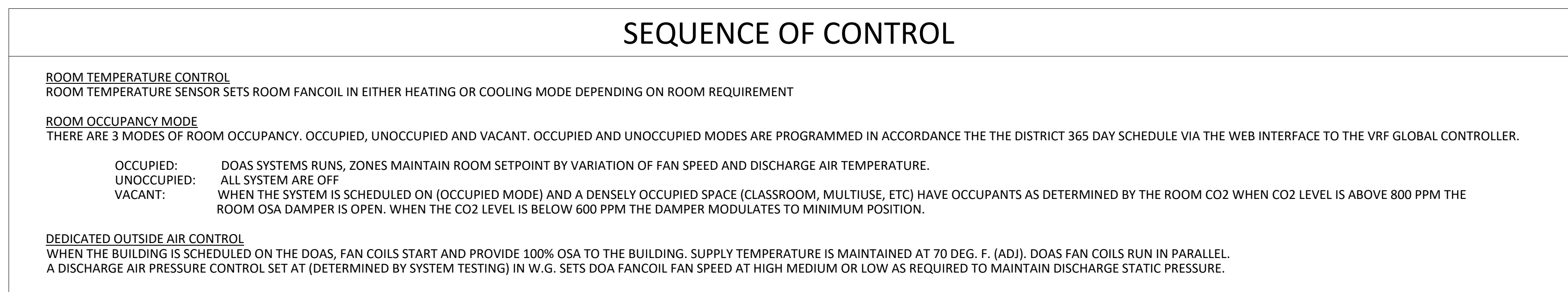
SCALE : NONE



NOTE:
(E) CENTRAL CONTROL DIAGRAM FOR BUILDING, SHOWN FOR REFERENCE ONLY.

CENTRAL CONTROL DIAGRAM

SCALE : NONE



SEQUENCE OF CONTROL

SCALE : NONE

PLUMBING ABBREVIATIONS			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
ABC	ABOVE CEILING	MC	MOTOR CONTROLLER
ACC DR	ACCESS DOOR	MECH	MECHANICAL
ACC P	ACCESS PANEL	MTD	MOUNTED
AFF	ABOVE FINISHED FLOOR	(N)	NEW
AFG	ABOVE FINISHED GRADE	NC	NORMALLY CLOSED
AFP	ABOVE FINISHED PAVEMENT	NO	NORMALLY OPEN
AHV	AIR HOSE VALVE	NTS	NOT TO SCALE
ASH	AUTOMATIC SPRINKLER HEAD		
		OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
BEL	BELOW	OFOI	OWNER FURNISHED, OWNER INSTALLED
BFF	BELOW FINISHED FLOOR	OH	OVERHEAD
BFG	BELOW FINISHED GRADE	OS & Y	OUTSIDE SCREW AND YOKE
BFP	BACKFLOW PREVENTER		
BLDG	BUILDING	PH	PHASE
		PLBG	PLUMBING
CDC	CALIFORNIA DEPARTMENT OF CORRECTIONS	PLD	PLANTER DRAIN
OFF	CAPPED FOR FUTURE	PO	PLUGGED OUTLET
CLG	CEILING	PRS	PRE-RINSE SINK
CMP	CORRUGATED METAL PIPE	PS	POT SINK
COL	COLUMN	PT	PLASTER TRAP
CONN	CONNECT/CONNECTION		
CONT	CONTINUATION	(R)	RISER
CWH	COLD WATER HEADER	REC	RECESSED
		REQD	REQUIRED
(D)	DROP	REV	REVISION
DF	DRINKING FOUNTAIN	RM	ROOM
DIA	DIAMETER	RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
DN	DOWN	RWL	RAIN WATER LEADER
DW	DRY WELL		
DW	DISHWASHER	SD	STORM DRAIN
DWG	DRAWING	SH	SHOWER
		SPEC	SPECIFICATION
(E)	EXISTING	SS	STAINLESS STEEL/SERVICE SINK
EL	ELEVATION	STD	STANDARD
ELEC	ELECTRICAL	STRUC	STRUCTURAL
EQUIP	EQUIPMENT		
ES	EMERGENCY SHOWER	(TA)	TO ABOVE
EW	EYE WASH	(TB)	TO BELOW
EWC	ELECTRIC WATER COOLER	T.C.C.	TEMPERATURE CONTROLS CONTRACTOR
		TD	TRENCH DRAIN
FA	FROM ABOVE	TEMP	TEMPERATURE
FB	FROM BELOW	TOC	TOP OF CONCRETE
FD	FLOOR DRAIN	TS	TAMPER SWITCH
FFE	FINISHED FLOOR ELEVATION	TYP	TYPICAL
FF	FINISHED FLOOR		
FLR	FLOOR	UF	UNDER FLOOR
FSR	FIRE SPRINKLER RISER	UG	UNDERGROUND
FT	FLOOR TOILET	UL	UNDERWRITERS' LABORATORIES
/FT	PER FOOT	UR	URINAL
FTK	FLUSH TANK	US	UNDER SLAB
FU	FIXTURE UNIT		
FV	FLUSH VALVE	V	VENT
		VTR	VENT THRU ROOF
GAL	GALLONS	VO	VALVED OUTLET
		VW	VACUUM WASTE
HC	HANDICAPPED	W/	WITH
HR	HOUR	W/O	WITHOUT
HS	HAND SINK	W	WASTE
HT	HEIGHT	WC	WATER CLOSET
HTR	HEATER	WC/L	WATER CLOSET AND LAVATORY
HHW	HOT WATER HEATER	WF	WASH FOUNTAIN
		ZCV	ZONE CONTROL VALVE
IE	INVERT ELEVATION		
KEC	KITCHEN EQUIPMENT CONTRACTOR		
KS	KITCHEN SINK		
LV	LAVATORY		

PIPING, DUCTWORK, & ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO RESIST THE FORCES PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25, AND 1617A.1.26.

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

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

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

MP ☐ MD ☐ PP ☒ E ☐ OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM #) #0043-13.

SYMBOLS LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	---	3 WAY MODULATING CONTROL VALVE
	---	3 WAY TWO POSITION CONTROL VALVE
	---	3 WAY VALVE
	---	ANCHOR
	---	ANGLE GLOBE VALVE
	AVN	ANGLE VALVE
	AQ	AQUASTAT
	AD	AREA DRAIN
	---	AUTOMATIC AIR VENT
	---	AUTOMATIC FLOW CONTROL
	BFP, BP, DCW	BACKFLOW PREVENTER, REDUCE PRESSURE, DOUBLE CHECKVALVE
	---	BALANCING VALVE
	---	BALL JOINT
	---	BALL VALVE
	---	BOTTOM CONNECTION
	---	BUTTERFLY VALVE
	BPT	BYPASS TIMER
	CBV	CALIBRATED BALANCE VALVE
	CB, RD	CATCH BASIN, ROOF DRAIN
	---	CHECK VALVE
	---	CIRCUIT SETTER VALVE
	CP	CIRCULATING PUMP
	CO	CLEANOUT
	DS	DYNAMIC SENSOR
	---	ECCENTRIC REDUCER
	EJ	EXPANSION JOINT
	FD	FIRE DAMPER
	FDC	FIRE DEPARTMENT CONNECTION
	FHC	FIRE HOSE RACK AND CABINET
	FH	FIRE HYDRANT
	FS	FIRE/SMOKE DAMPER
	---	FLEXIBLE CONNECTOR
	---	FLOAT & THERMOSTATIC TRAP
	FD	FLOOR DRAIN
	FS	FLOOR SINK
	---	FLOW ARROW
	---	FLOW ELEMENT
	FLV	FLOW LIMITING VALVE
	FS	FLOW SWITCH
	GCK	GAGE COCK

SYMBOLS LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	GSCK, PC	GAS COCK, PLUG COCK
	GM	GAS METER
	GPR	GAS PRESSURE REGULATOR
	---	GATE VALVE WITH HOSE ADAPTER
	---	GATE VALVE
	---	GLOBE VALVE
	HD	HOPPER DRAIN
	HB	HOSE BIBB
	HB	HOSE BIBB
	H	HUMIDISTAT
	---	INVERTED BUCKET TRAP
	---	LIMIT OF DEMOLITION
	---	MANUAL AIR VENT
	---	MODULATING CONTROL VALVE
	---	PIPE BREAK
	---	PIPE CAP
	---	PIPE DOWN
	---	PIPE GUIDE
	---	PIPE UP
	---	POINT OF CONNECTION
	PIV	POST INDICATOR VALVE
	PRV	PRESSURE REGULATING VALVE
	---	PRESSURE RELIEF VALVE
	---	REDUCER
	SD	SMOKE DAMPER
	SKD	SMOKE DETECTOR
	---	SOLENOID VALVE
	---	STRAINER
	TS	TEMPERATURE SENSOR
	---	TEST PLUG
	---	THERMOMETER
	T	THERMOSTAT
	TP	TRAP PRIMER
	---	TWO POSITION CONTROL VALVE
	---	UNION
	---	VALVE IN RISER/DROP
	VB	VALVE IN VALVE BOX
	---	WALL CLEANOUT
	WHA	WATER HAMMER ARRESTOR
	WM	WATER METER

PLUMBING GENERAL NOTES

- ACCESS PANELS SHALL BE PROVIDED AS NECESSARY TO PROPERLY ACCESS THE PLUMBING SYSTEM INCLUDING VALVES, REFER TO SPECIFICATION SECTION 08310.
- OFFSET VENT THROUGH ROOFS 10'-0" MINIMUM FROM AIR INTAKES AND 4'-0" FROM OUTSIDE WALLS.
- HVAC EQUIPMENT IS SHOWN FOR THE COORDINATION OF UTILITIES ONLY. REFER TO 'M' SHEETS FOR MORE INFORMATION.
- THE CONNECTION OF NATURAL GAS LINES TO EQUIPMENT SHALL INCLUDE A LINE SIZE SHUT-OFF VALVE, UNION AND A MINIMUM 6" LONG DIRT LEG WITH ACCESSIBLE END CAP.
- THE CONNECTION OF CONDENSATE DRAIN LINES TO HVAC EQUIPMENT SHALL INCLUDE A MINIMUM 4" DEEP "P"-TRAP AND PLUGGED TEE AT ALL OFFSETS.
- PROVIDE WATER HAMMER ARRESTORS (WHA) AS INDICATED ON PLUMBING PLANS AND/OR AS DESCRIBED WITHIN DIVISION 22 SPECIFICATIONS. SIZING SHALL BE IN ACCORDANCE WITH PDI STANDARD WH-201.
- FOR PIPES PASSING THROUGH, UNDER OR PARALLEL TO BUILDING FOOTINGS, RETAINING WALLS ETC. REFER TO STRUCTURAL DETAILS, 'S' SHEETS, FOR TYPICAL ARRANGEMENT.
- CONTRACTOR SHALL FIELD VERIFY ALL POINTS OF CONNECTION TO SITE PIPING (LOCATIONS AND INVERT) PRIOR TO EXCAVATION, FABRICATION AND INSTALLATION OF ASSOCIATED PIPING RUNS. NOTIFY ARCHITECT AND OR ENGINEER IMMEDIATELY IF POINTS OF CONNECTION OR INVERTS ARE DIFFERENT THAN REPRESENTED ON THE DRAWINGS.
- OFFSET ALL RISERS AND DROPS TO AVOID PENETRATIONS AT TOP PLATES.
- PENETRATION OF PIPES, CONDUIT, ETC., IN WALLS AND/OR FLOORS REQUIRING PROTECTED OPENINGS SHALL BE FIRE STOPPED. MATERIAL SHALL BE A TESTED ASSEMBLY APPROVED BY THE STATE FIRE MARSHAL.
- SEAL ALL PIPE PENETRATIONS THRU FLOORS WATERTIGHT.
- DRAWINGS SHALL BE CONSIDERED DIAGRAMMATIC ONLY. CONTRACTOR SHALL FIELD VERIFY WHERE POSSIBLE, EXACT LOCATIONS, SIZES, AND ELEVATIONS OF ALL ITEMS SHOWN PRIOR TO THE INSTALLATION OF ANY NEW WORK.
- THE DRAWINGS ARE NOT INTENDED TO SHOW EVERY OFFSET OR FITTING OR EVERY STRUCTURAL DIFFICULTY THAT MAY BE ENCOUNTERED DURING INSTALLATION OF THE WORK. LOCATION OF ALL ITEMS NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. EXACT LOCATIONS NECESSARY TO SECURE BEST CONDITIONS AND RESULTS MUST BE DETERMINED AT THE JOB SITE AND SHALL HAVE THE APPROVAL OF THE ARCHITECT BEFORE BEING INSTALLED.
- ALL VALVES SHOWN SHALL BE FULL LINE SIZE UNLESS OTHERWISE NOTED.
- CLOSELY COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO TRENCHING OR INSTALLATION OF NEW. IDENTIFY SIZE AND LOCATIONS OF ALL PENETRATIONS THROUGH FOUNDATIONS, WALLS OR ROOFS PRIOR TO FABRICATION OF ANY SYSTEMS OR ORDERING MATERIALS AFFECTED BY POSSIBLE COORDINATION CONFLICTS.
- CONCRETE ANCHORS SHALL BE HILTI, KWIK BOLT T2 3/8" WITH EMBEDMENT AS PER STRUCTURAL PLANS. ANCHORS SHALL BE TESTED PER IR 19-1, INTERPRETIVE REGULATION FOR EXPANSION ANCHORS IN HARDENED CONCRETE. ANCHOR TEST SHALL BE 968 LBS. TENSION.
- PIPING SHALL BE SUPPORTED AND BRACED IN STRICT COMPLIANCE WITH DIVISION 22 SPECIFICATIONS.
- PENETRATION OF PIPES, CONDUITS, ETC., IN WALLS AND/OR FLOORS REQUIRING PROTECTED OPENINGS SHALL BE FIRE STOPPED. MATERIAL SHALL BE A TESTED ASSEMBLY APPROVED BY THE STATE FIRE MARSHAL.
- ALL NEW SANITARY WASTE PIPING SHOWN SHALL BE SLOPED AT 1/4" PER FOOT MINIMUM UNLESS OTHERWISE NOTED ON PLANS. WHERE SLOPES LESS THAN 1/4" PER FOOT ARE INDICATED, CONTRACTOR SHALL SLOPE NEW PIPING UNIFORMLY BETWEEN UPPER TERMINAL OF PIPE AND THE POINT OF CONNECTION TO THE SITE PIPING (AS INDICATED ON THE CIVIL PLANS) TO ACHIEVE MAXIMUM SLOPE POSSIBLE AND IN NO CASE SHALL THE PIPING BE SLOPED LESS THAN THE MINIMUM INDICATED.
- CONCEAL ALL PIPING IN WALL FURRING, PARTITIONS, ETC., EXCEPT AT MECHANICAL ROOMS.
- REFER TO ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS AND EXACT LOCATIONS OF PLUMBING FIXTURES.

MEP COMPONENT ANCHORAGE NOTE

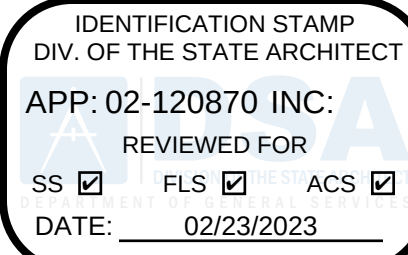
ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 29 AND 30.

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
- TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER, "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCET PLUGS FOR 110/220 VOLT RECEPTACLES HAVING FLEXIBLE CABLE
- TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF THAT DIRECTLY SUPPORT THE COMPONENT ARE REQUIRED TO BE RETRAINED WITH TEMPORARY ATTACHMENTS.

THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

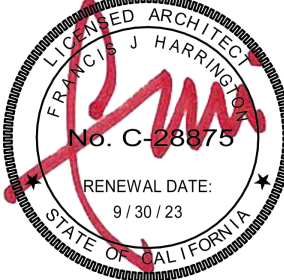
- COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTION SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM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

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.



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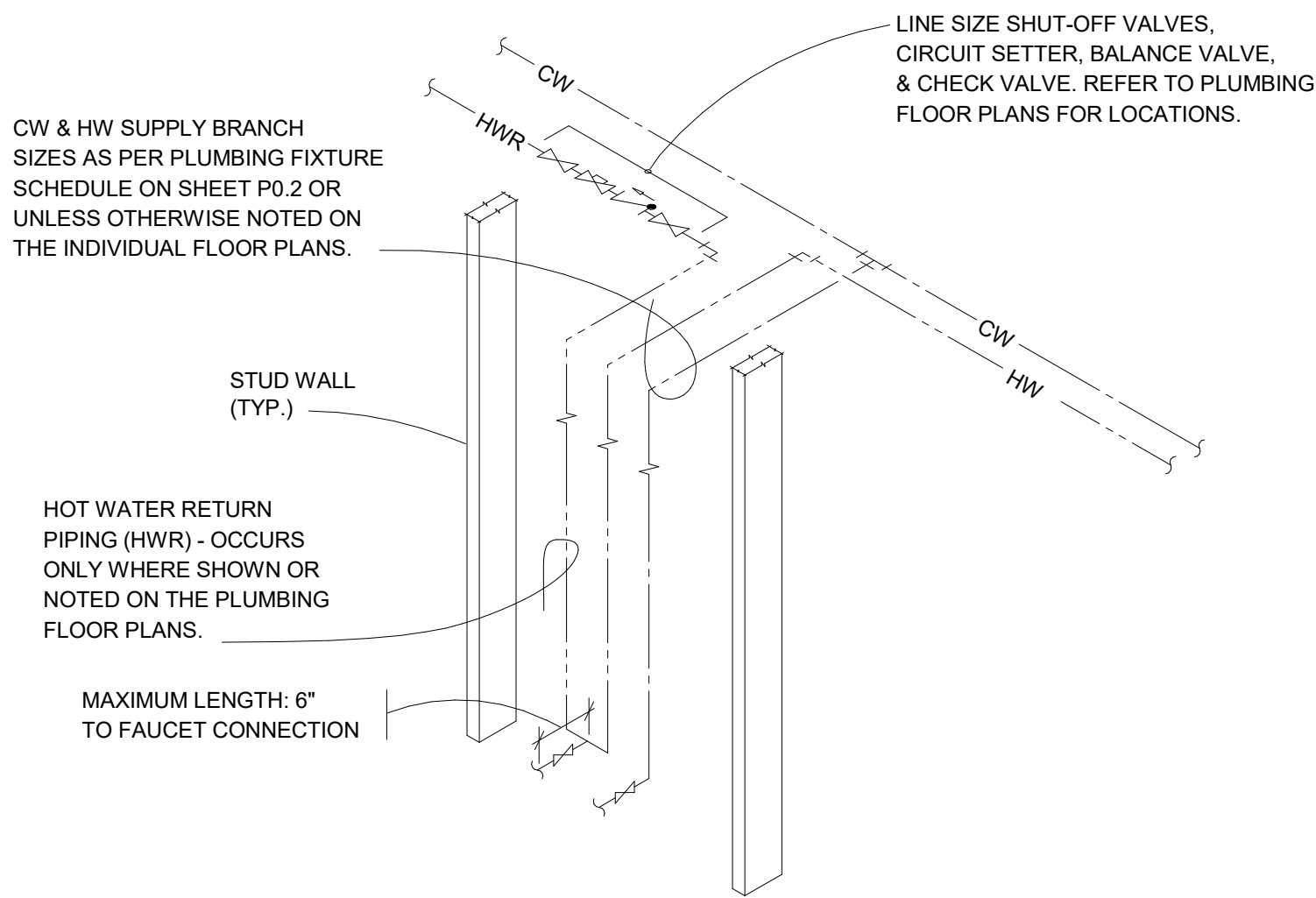
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DATE: December 30, 2022

PLUMBING
LEGENDS, NOTES
& SCHEDULES

P0.1

PLUMBING FIXTURE SPECIFICATION & CONNECTION SCHEDULE													
ADA	SYMBOL	FIXTURE	FIXTURE MANUFACTURER AND MODEL No.	FAUCET OR VALVE MANUFACTURER AND MODEL No.	TRIM MANUFACTURER AND MODEL No.	REMARKS	VENT	WASTE		COLD WATER		HOT WATER	
								BRANCH	OUTLET	BRANCH	OUTLET	BRANCH	OUTLET
	WC-1	WATER CLOSET FLOOR MOUNTED FLUSH VALVE ACCESSIBLE	"AMERICAN STANDARD" MADERA EL NO. 3461.001, 1.28 GPF FLOOR MOUNTED, ELONGATED, SIPHON JET ACTION 1-1/2" TOP SPUD, 16-1/2" RIM HEIGHT.	"SLOAN" ROYAL SFSM 111-1.28-ES.S, ADA COMPLIANT, 1.28 GPF, WALL MOUNTED	SEAT: "CHURCH" MODEL 295SSCT OR "BEMIS" MODEL 1955SSCT. PROVIDE WITH SELF- SUSTAINING CONCEALED CHECK HINGES, ONE PIECE STAINLESS STEEL POST HINGES, WHITE COLOR.	WHERE USED FOR CBC ACCESSIBLE WATER CLOSETS, THE FLUSH TRIP LEVER SHALL BE MOUNTED ON THE WIDE SIDE OF THE WATER CLOSET ENCLOSURE.	2"	4"	4"	1-1/4"	1"	--	--
	L-1	LAVATORY WALL MOUNTED HOT AND COLD WATER STD/ACCESSIBLE	"AMERICAN STANDARD" LUCERNE NO. 0355.012, WALL HUNG, VITREOUS CHINA WITH CONTOURED BACK AND SIDE SPLASH SHIELDS, FRONT OVERFLOW, CONCEALED ARM RECESS, 4" CENTERS, 20" x 18" D SHAPED BOWL.	"SLOAN" OPTIMA EAF-100 SENSOR FAUCET, AERATOR WITH 0.5 GPM FLOW RATE. WITH VANDAL RESISTANT ECONO-FLO SPRAY OUTLET, WITH IPS CONNECTIONS, ADA COMPLIANT, HARD WIRED, INTEGRATED SIDE MIXTURE, CHROME FINISH.	ADA COMPLIANT. LAVATORY GRID DRAIN WITH 1-1/4" OFFSET TAILPIECE, INTEGRAL PERFORATED GRID NO. 7723.018, CHROME FINISH. MOUNT P-TRAP FLUSH TO WALL. CARRIER: "J R SMITH" 0700 OR ZURN Z1231	MOUNT AT HEIGHT INDICATED ON ARCHITECTURAL DRAWINGS. PROVIDE CONCEALED ARMS AND FLOOR SUPPORT, WITH FEET OF SUPPORT SECURELY ANCHORED TO FLOOR. IN ADDITION ANCHOR TOP OF SUPPORT TO WALL CONSTRUCTION.	1-1/2"	2"	1-1/2"	3/4"	1/2"	3/4"	1/2"
	S-1	SINK COUNTER MOUNTED HOT AND COLD WATER ADMIN/CONF.	"JUST" SL-ADA-1921-A-GR 19" FRONT TO BACK, 21" WIDE x 6-1/2" DEPTH OVERALL. 18 GAUGE STAINLESS STEEL, LEDGE BACK WITH SELF- RIM. PROVIDE SINGLE FAUCET HOLE. PROVIDE REAR DRAIN LOCATION. PROVIDE FACTORY ADHERED VANDAL RESISTANT BACKING PLATE AT FAUCET, AND SLOT AT FAUCET FOR VANDAL RESISTANT BACKING PLATE SHALL BE 14 GAUGE SS FORMED AS CHANNEL.	"CHICAGO" ECAST MODEL 50-E35ABCP(VVAVVP) GOOSENECK FAUCET, 1.5 GPM VANDAL RESISTANT LAMINAR FLOW AERATOR AND RIGID/SWING FAUCET. PROVIDE VANDAL RESISTANT PIN IN FAUCET, ARRANGED TO MATE WITH SLOT IN SINK.	"JUST" J-ADA-35-SSF-VR DRAIN SYSTEM. INSTALL P-TRAP FLUSH TO WALL. "JUST" JTS-150 P-TRAP, SWIVEL STYLE WITH CLEAN OUT		1-1/2"	2"	1-1/2"	3/4"	1/2"	3/4"	1/2"
NOTES: 1. WATER SUPPLIES AND STOPS A. PROVIDE 85 PERCENT IPS RED BRASS PIPE, SECURELY ANCHORED TO BUILDING CONSTRUCTION, FOR EACH CONNECTION TO FAUCETS, STOPS, HOSE BIBBS, ETC. EACH FIXTURE, EXCEPT HOSE BIBBS, SHALL HAVE A STOP VALVE INSTALLED ON WATER SUPPLY LINES TO PERMIT REPAIRS WITHOUT SHUTTING OFF WATER MAINS. B. PROVIDE ALL WATER SUPPLIES TO FIXTURES WITH COMPRESSION SHUT-OFF STOPS WITH IPS INLETS WITH THREADED BRASS NIPPLES AT PIPE CONNECTION AND LOCK SHIELD LOOSE KEY. PROVIDE COMBINATION FIXTURES WITH COMPRESSION STOP AND IPS INLET ON EACH WATER SUPPLY FITTING. PROVIDE LOOSE KEY HANDLE FOR EACH STOP. C. PROVIDE 1/2 INCH RISER TUBES WITH REDUCING COUPLING FOR ALL FIXTURES, UNLESS OTHERWISE NOTED. REFER TO SPECIFICATION SECTION 22 40 00. 2. PIPE, PIPE OR PLUMBING FITTINGS, FIXTURES, SOLDER AND FLUX INSTALLED IN A SYSTEM PROVIDING WATER FOR HUMAN CONSUPTION SHALL COMPLY WITH LEAD FREE REQUIREMENTS OF THE CALIFORNIA HEALTH AND SAFETY CODE SECTION 116875. PROVIDE SUBMITTAL INFORMATION FOR PRODUCTS THIRD-PARTY CERTIFIED BY AN APPROVED LABORATORY AS COMPLYING WITH CALIFORNIA HEALTH AND SAFETY CODE SECTION 116875. OF COMPLIANCE WITH THE CALIFORNIA HEALTH AND SAFETY CODE SECTION 116875. PROVIDE PRODUCT SUBMITTAL INFORMATION PROVING COMPLIANCE WITH LEAD FREE REQUIREMENTS.													



HOT WATER RETURN PIPE DETAIL

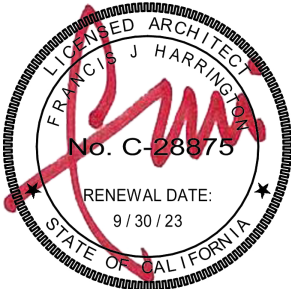
SCALE : NONE

1
P0.2

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120870 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 02/23/2023

HARRINGTON
DESIGN
ASSOCIATES

5875 PACIFIC STREET, SUITE E2
ROCKLIN, CA 95677 (916) 577-5789
www.HarringtonDA.com



ARCHITECT

CAPITAL
engineering

RANCHO CORDOVA, CALIFORNIA

JGH - DY, NH, JH 221205.00
PM - DESIGN TEAM PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
J. G. HARRINGTON
MECHANICAL
STATE OF CALIFORNIA
DATE SIGNED: 1/30/2023

ENGINEER



OWNER

ADMINISTRATION
OFFICE REMODEL

APRIL LANE
ELEMENTARY SCHOOL

800 April Lane,
Yuba City, CA 95991

REVISIONS		

DATE: December 30, 2022

PLUMBING
FIXTURE AND
CONNECTION
SCHEDULE

P0.2

NEW WORK KEYNOTES:

- 1 HOT WATER RETURN. SEE DETAIL 1/P0.2. PROVIDE "CIRCUIT SOLVER" BALANCING VALVE WITH SOV ON EACH END AND SET VALVE AT 0.25 GPM.
- 2 PROVIDE NEW DOMESTIC HOT AND COLD WATER CONNECTIONS TO EXISTING SINK.
- 3 CW & HW PIPES ROUTED UF AND RISE UP IN WALL.

DEMOLITION KEYNOTES:

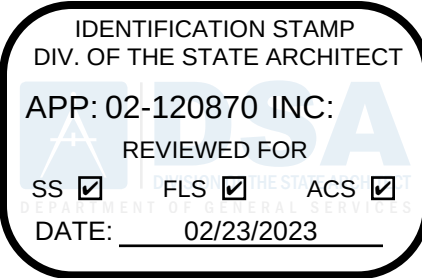
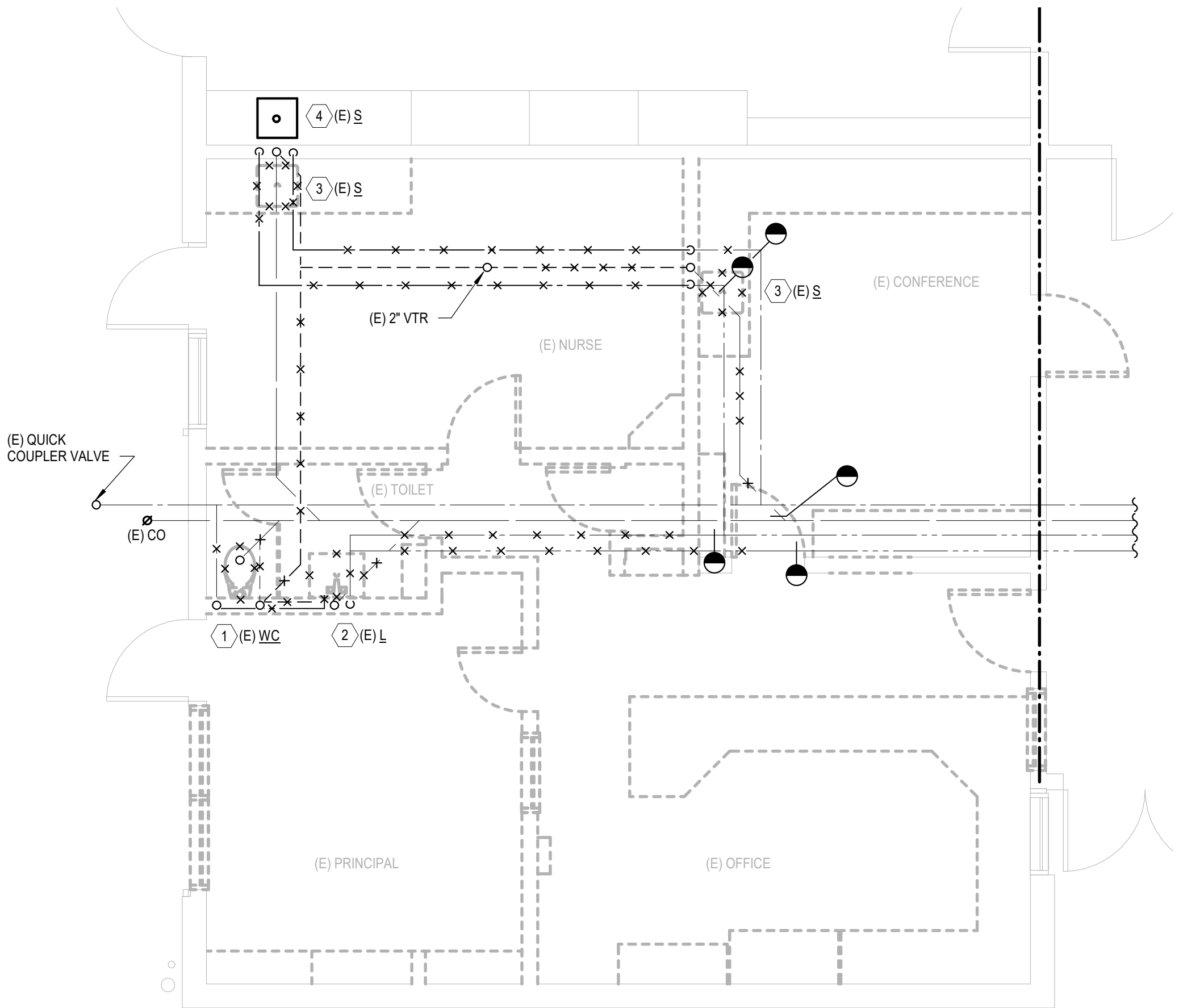
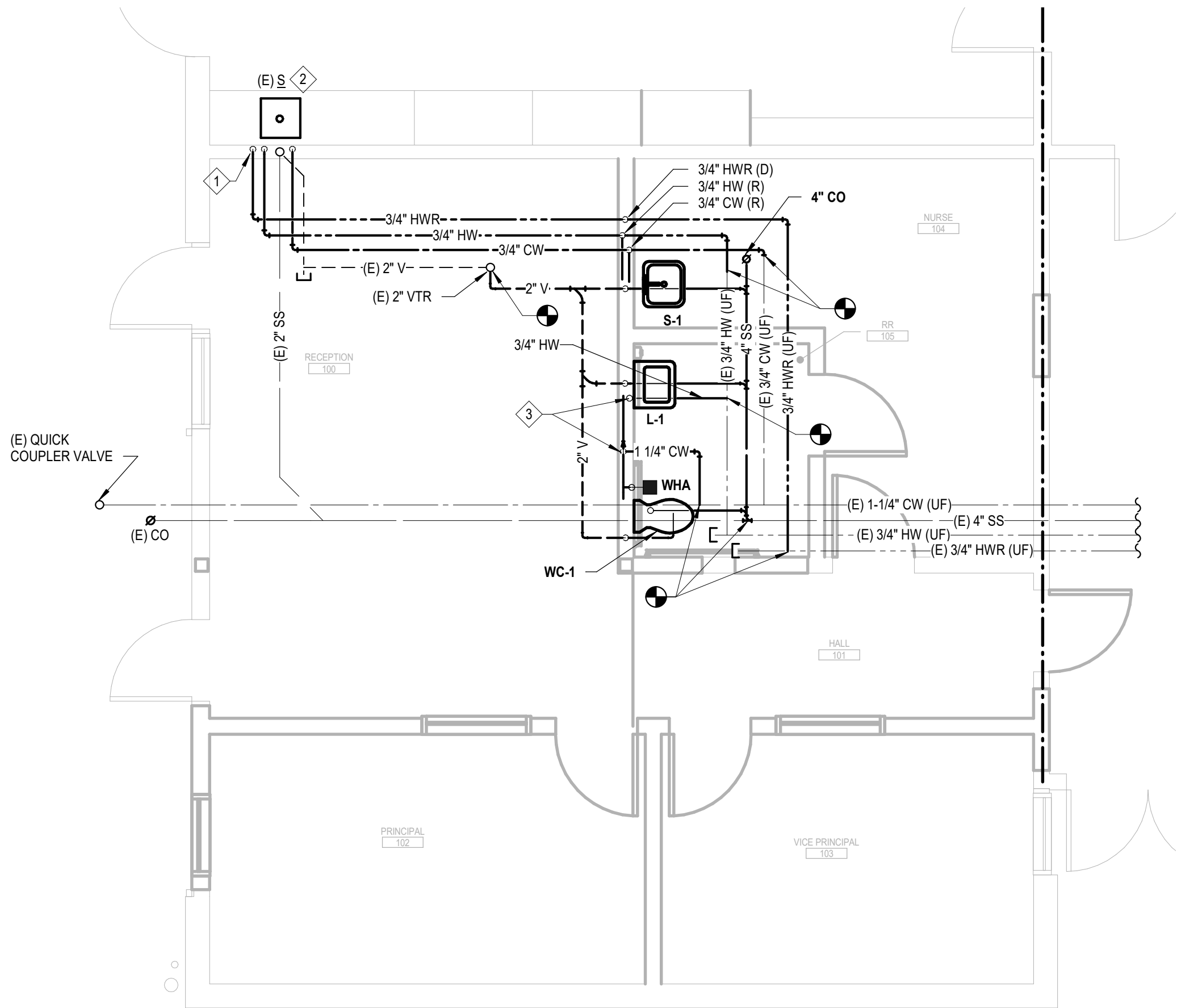
- 1 EXISTING WATER CLOSET TO BE REMOVED. CAP PIPE ABOVE, BEHIND, OR BELOW ARCHITECTURAL FINISHES.
- 2 EXISTING LAVATORY TO BE REMOVED. CAP PIPE ABOVE, BEHIND, OR BELOW ARCHITECTURAL FINISHES.
- 3 EXISTING SINK TO BE REMOVED. CAP PIPE ABOVE, BEHIND, OR BELOW ARCHITECTURAL FINISHES.
- 4 EXISTING SINK TO REMAIN.

GENERAL NOTES:

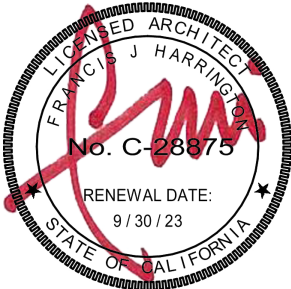
- 1. THE DESIGN HAS BEEN BASED ON RECORD DRAWINGS AND SITE OBSERVATIONS. CONTRACTOR SHALL PERFORM INVESTIGATION OF EXISTING CONDITIONS PRIOR TO INSTALLATION OF NEW WORK. CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY OF EXISTING CONDITIONS THAT MAY NOT ALLOW INSTALLATION OF NEW WORK AS SHOWN.

LEGEND:

----- 1 HR OCCUPANCY SEPARATION.



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ARCHITECT



RANCHO CORDOVA, CALIFORNIA
JGH - DY, NH, JH 221205.00
PM - DESIGN TEAM PROJECT NO.



DATE SIGNED: 1/30/2023

ENGINEER



OWNER

ADMINISTRATION
OFFICE REMODEL

APRIL LANE
ELEMENTARY SCHOOL

800 April Lane,
Yuba City, CA 95991

REVISIONS

NO.	DESCRIPTION	DATE

DATE: December 30, 2022

PLUMBING FLOOR
PLANS

P2.0

JOB NO. 2149.00

1 PLUMBING FLOOR PLAN
P2.0 SCALE: 1/4" = 1'-0"

2 PLUMBING DEMO FLOOR PLAN
P2.0 SCALE: 1/4" = 1'-0"

ELECTRICAL ABBREVIATIONS LIST			
1P A AC ACLG AF AFF AFG AFI AHU AL ALT AMP AMPL ANNUN APPROX AQ-STAT ARCH AS AT ATS AUTO AUX AV AWG BATT BC BD BLDG BMS C CAB CAT CATV CB CCTV CKT CLG COMB CMPR COMM CONN CONST CONT CONTR CONV CP CRT CT CTR CU DCP DEPT DET DIA DISC DIST DN DPR DS DT DWG (E) EC ELEC ELEV EM EMS EMT EP EQUIP EWC EXIST EXH EXP F FA FABP FACP FCU FIXT FLR FLUOR FU FUDS GA GAL GALV GC GEN GFI GFP G GRS GYP BD H HORIZ HP HPF HT HTG HTR HV HVAC IAP IC IDF IG IMC IR IW J-BOX KV KVA KVAR KW KWH LOC LT LTG LTNG LV MAX MAG S	1 POLE (2P, 3P, 4P, ETC.) AMPERE ABOVE COUNTER ABOVE CEILING AMP FRAME ABOVE FINISHED FLOOR ABOVE FINISHED GRADE ARC FAULT CIRCUIT INTERRUPTER AIR HANDLING UNIT ALUMINUM ALTERNATE AMPERE AMPLIFIER ANNUNCIATOR APPROX APPROXIMATELY AQ-STATUAQUASTAT ARCHITECT, ARCHITECTURAL AMP SWITCH AUXILIARY AUDIO VISUAL AMERICAN WIRE GAUGE BATTERY BARE COPPER BOARD BUILDING BUILDING MANAGEMENT SYSTEM CONDUIT CABINET CATALOG CABLE TELEVISION CIRCUIT BREAKER CLOSED CIRCUIT TELEVISION CIRCUIT CEILING COMBINATION COMPRESSOR COMMUNICATION CONNECT CONSTRUCTION CONTINUATION OR CONTINUOUS CONTRACTOR CONVECTOR CIRCULATING PUMP CATHODE-RAY TUBE CURRENT TRANSFORMER CENTER COPPER DOMESTIC WATER CIRCULATING PUMP DEPARTMENT DETAIL DIAMETER DISCONNECT DISTRIBUTION DOWN DAMPER SAFETY DISCONNECT SWITCH DOUBLE THROW DRAWING EXISTING ELECTRICAL CONTRACTOR ELECTRIC, ELECTRICAL ELEVATOR EMERGENCY ENERGY MANAGEMENT SYSTEM ELECTRICAL METALLIC TUBING ELECTRIC PNEUMATIC EQUIPMENT ELECTRIC WIRE COOLER EXISTING EXHAUST EXPLOSION PROOF FUTURE FIRE ALARM FIRE ALARM BOOSTER POWER FIRE ALARM CONTROL PANEL FAN COIL UNIT FIXTURE FLOOR FLUORESCENT FUSE FUDED SAFETY DISCONNECT SWITCH GAUGE GALLON GALVANIZED GENERAL CONTRACTOR GENERATOR GROUND FAULT CIRCUIT INTERRUPTER GROUND FAULT PROTECTOR GROUND GALVANIZED RIGID STEEL (CONDUIT) GYPSUM BOARD HANDS-OFF AUTOMATIC SWITCH HORIZONTAL HORSEPOWER HIGH POWER FACTOR HEIGHT HEATING HEATER HIGH VOLTAGE HEATING, VENTILATING AND AIR CONDITIONING INTRUSION ALARM PANEL INTERRUPTING CAPACITY INTERMEDIATE DISTRIBUTION FRAME ISOLATED GROUND INTERMEDIATE METAL CONDUIT INFRARED INTERLOCK WITH JUNCTION BOX KILOVOLT KILOVOLT-AMPERE KILOVOLT-AMPERE REACTIVE KILOWATT KILOWATT HOUR LOCATE OR LOCATION LIGHT LIGHTING LIGHTNING LOW VOLTAGE MAXIMUM MAGNETIC STARTER	M/C MC MCB MCC MDC MDF MDP MFR MFS MH MIC MIN MISC MLO MMS MOA MSP MSBD MT MT.C MTS MTR NEW N.C. NEMA NFD NIC NL N.O. NPF NTS OH OL PA PB PE PED PF PH PIV PNL PP PR PRI PROJ PT PVC PWR QTY RCP REQD RM RSC RTU SC SEC SHT SIM S/N SPEC SPKR SR SS SSW ST STA STD SURF SW SWBD SYM SYS TEL TEL/DATA TERM TL TR T-STAT TTC TV TVTC TYP UC UE UG UH UL UL UTL ULTRAVIOLET V VA VDT VERT VFD VIF VOLF W WI WG WH WI WP XMR XFR ANGLE AT DELTA FEET INCHES NUMBER PHASE CENTER LINE PLATE	MOMENTARY CONTACT MECHANICAL CONTRACTOR MAIN CIRCUIT BREAKER MOTOR CONTROL CENTER MAIN DISTRIBUTION CENTER MAIN DISTRIBUTION FRAME MAIN DISTRIBUTION PANEL MANUFACTURER MAIN FUSED DISCONNECT SW MANHOLE MICROPHONE MINIMUM MISCELLANEOUS MAIN LUGS ONLY MANUAL MOTOR STARTER MULTIOUTLET ASSEMBLY MOTOR STARTER PANELBOARD MAIN SWITCHBOARD MOUNT EMPTY CONDUIT MANUAL TRANSFER SWITCH MOTOR, MOTORIZED NEW NORMALLY CLOSED NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION NON-FUSED SAFETY DISCONNECT SWITCH NOT IN CONTACT NIGHT LIGHT N.O. NORMALLY OPEN NORMAL POWER FACTOR NOT TO SCALE OVERHEAD OVERLOADS PUBLIC ADDRESS PULL BOX OR PUSHBUTTON PNEUMATIC ELECTRIC PEDESTAL POWER FACTOR PHASE POST INDICATING VALVE PANEL POWER POLE PAIR PRIMARY PROJECTION POTENTIAL TRANSFORMER POLYVINYL CHLORIDE (CONDUIT) POWER QUANTITY RECEPTACLE REQUIRED RIGID STEEL CONDUIT ROOF TOP UNIT SURFACE CONDUIT SECONDARY SHUTTER SIMILAR SOLID NEUTRAL SPECIFICATION SPEAKER SURFACE RACEWAY STAINLESS STEEL SELECTOR SWITCH STOP/START PUSHBUTTONS STATION STANDARD SURFACE MOUNTED SWITCH SWITCHBOARD SYMMETRICAL SYSTEM TELEPHONE TELEPHONE/DATA TERMINAL TWIST LOCK TAMPER RESISTANT THERMOSTAT TELEPHONE TERMINAL CABINET TELEVISION TELEVISION TERMINAL CABINET TYPICAL UNDER COUNTER UNDERGROUND UNIT HEATER UNDERWRITER LAB UNDERGROUND TELEPHONE UTILITY ULTRAVIOLET VOLT VOLT-AMPERES VIDEO DISPLAY TERMINAL VERTICAL VARIABLE FREQUENCY DRIVE VERIFY IN FIELD VOLUME WIRE WITH WIRE GUARD WATER HEATER WITHOUT WEATHERPROOF TRANSFORMER TRANSFER

ELECTRICAL SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	LIGHTING FIXTURES, TYPICAL, RECTANGULAR
	FILLED CIRCLES INDICATE RECESSED, OPEN CIRCLES INDICATE SURFACE
	DIAGONAL LINE INDICATES LENSED OUTER DOTS INDICATE SUSPENDED
	LIGHTING FIXTURES, TYPICAL, ROUND
	CENTER DOT INDICATES PENDANT
	DIAGONAL LINE INDICATES LENSED
	CHEVRON INDICATES WALL WASH
	WALL-MOUNTED FIXTURES, TYPICAL
	STRIP FIXTURE
	DIRECTIONAL LIGHT, TRACK, FLOOD
	LINEAR LIGHT, TAPE LIGHT
	EMERGENCY LIGHTING UNIT, CEILING-MOUNTED, INTEGRAL BATTERY
	EMERGENCY LIGHTING UNIT, CEILING-MOUNTED, REMOTE BATTERY
	EMERGENCY LIGHTING UNIT, WALL-MOUNTED, INTEGRAL BATTERY
	EMERGENCY LIGHTING UNIT, WALL-MOUNTED, REMOTE BATTERY
	EXIT LIGHT, CEILING-MOUNTED, SHADING AND ARROWS INDICATE FACES AND DIRECTION
	EXIT LIGHT, WALL-MOUNTED, SHADING AND ARROWS INDICATE FACES AND DIRECTION
	EXIT/ELU COMBO
	POLE/AREA LIGHTS
	POST-TOP AREA LIGHT
	BOLLARD LIGHT
	DIAGONAL HATCH INDICATES LIGHT ON A CRITICAL CIRCUIT
	SOLID HATCH INDICATES LIGHT ON AN EMERGENCY OR LIFE SAFETY CIRCUIT
	SINGLE POLE SWITCH
	3-WAY SWITCH
	4-WAY SWITCH
	KEYED SWITCH
	SWITCH W/PILOT
	DIMMER SWITCH
	OCCUPANCY SENSOR W/ DIMMER AND MANUAL ON/OFF SWITCH
	TIMER SWITCH
	TIME DELAY SWITCH
	TIME CONTROL SWITCH
	SINGLE RECEPT.
	DUPLEX RECEPT.
	(DESIGNATES SPECIFIC MOUNTING HEIGHT) DUPLEX RECEPT.
	GFI DUPLEX RECEPT. (FEED THROUGH)
	GFI WEATHERPROOF RECEPT.
	SPLIT DUPLEX RECEPT.
	DUPLEX ISOLATED GROUND RECEPT.
	DUPLEX RECEPT. ON EMERG. CIRCUIT
	FLOOR DUPLEX RECEPT.
	CEILING DUPLEX RECEPT.
	FOURPLEX RECEPT.
	FOURPLEX GFI RECEPT.
	240V RECEPTACLE
	RECEPT. ON CORD REEL
	SPECIAL RECEPT.
	JUNCTION BOX
	FLOOR JUNCTION BOX
	CEILING JUNCTION BOX
	MULTIOUTLET ASSEMBLY
	COMB. MOTOR STARTER (FUSED)
	SAFETY DISC. SW. (NON-FUSED)
	SAFETY DISC. SW. (FUSED)
	RELAY
	PUSH BUTTON
	ABOVE COUNTER DUPLEX RECEPT.
	TAMPER RESISTANT DUPLEX RECEPT.
	TAMPER RESISTANT FOURPLEX RECEPT.
	POWER POLE (OPEN OFFICE STYLE)
	SURGERY SERVICE COLUMN
	STATIC GROUND RECEPTACLE
	UTILITY SERVICE POWER POLE
	MOTOR
	IDENTITY (SEE SCHEDULE)
	EXISTING TO REMAIN
	RELOCATED
	DEMOLISHED
	TRANSFORMER
	BUS DUCT W/ PLUG IN DISCONNECT
	CABLE TAP BOX

GENERAL FIRE ALARM SYSTEM NOTES:			
1.	THE FIRE ALARM SYSTEM SHALL COMPLY WITH A TOTAL COVERAGE FULLY AUTOMATIC SYSTEM. DETECTORS SHALL BE INSTALLED IN ALL AREAS WHERE REQUIRED BY THE APPROPRIATE NFPA STANDARD OR THE AUTHORITY HAVING JURISDICTION. EACH INSTALLED DETECTOR SHALL BE ACCESSIBLE FOR PERIODIC MAINTENANCE AND TESTING. PROVIDE ACCESS DOORS AS REQUIRED. TOTAL COVERAGE SHALL INCLUDE ALL ROOMS, STORAGE AREAS, ATTICS, SPACES ABOVE SUSPENDED CEILINGS, AND OTHER SUBDIVISIONS AND ACCESSIBLE SPACES. INACCESSIBLE AREA SHALL NOT BE REQUIRED TO BE PROTECTED BY DETECTORS UNLESS THEY CONTAIN COMBUSTIBLE MATERIAL, IN WHICH CASE THEY SHALL BE MADE ACCESSIBLE AND BE PROTECTED BY DETECTOR(S).	10.	A FIRE ALARM ACCEPTANCE TEST OF ALL DEVICES AND APPLIANCES, INCLUDING THE BACKUP BATTERY(IES), SHALL BE PERFORMED. ALL MANUFACTURER OPERATING RANGED SHALL BE MET. TESTING OF THE SUPERVISING STATION SIGNALS, AS WELL AS RELAY TO THE APPROPRIATE RESPONDING AGENCY, SHALL BE INCLUDED IN THE ACCEPTANTANCE TESTING. THE PROJECT INSPECTOR SHALL WITNESS THE ACCEPTANCE INSPECTION AND SHALL SIGN AS THE AUTHORITY HAVING JURISDICTION REPRESENTATIVE ON THE "SYSTEM RECORD OF COMPLETION" (NFPA 72, SECTION 7.5.6), AND THE " SYSTEM RECORD OF INSPECTION AND TESTING" (NFPA 7.6.6). SEE NFPA 72, FIGURE 7.8.2(a) & (g). ALL SUPPLEMENTARY RECORDS SHALL BE ATTACHED AS APPLICABLE. THE PROJECT INSPECTOR SHALL VERIFY THAT THE FIRE ALARM SYSTEM IN IN SERVICE PRIOR TO COMPLETION OF THE THE "SYSTEM RECORD OF COMPLETION" FORM. ALL ORIGINAL DOCUMENTATION SHALL BE RETAINED IN THE REQUIRED DOCUMENTATION CABINET.
2.	THE FIRE ALARM SYSTEM IS AN ADDRESSABLE SYSTEM.	11.	AUTOMATIC FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 AND CBC 907.6.5.3 THE SUPERVISING STATION SHALL BE LISTED AS EITHER UJFX OR UJIS BY UL OR SHALL MEET THE REQUIREMENTS OF FM STANDARD 8013.
3.	THE AUTOMATIC FIRE ALARM SYSTEM SHALL COMPLY WITH SENATE VOTE BILL NO. 575 (SB575) & CBC 907.2 FOR NEW CONSTRUCTION PROJECTS.		
4.	THE FIRE ALARM SYSTEM IS A COMPLETE SUBMITTAL.		
5.	THE FIRE ALARM SYSTEM SHALL CONFORM TO THE CALIFORNIA BUILDING CODE (CBC) SECTION 907; THE CALIFORNIA ELECTRICAL CODE (CEC) ARTICLE 760 AND THE CALIFORNIA FIRE CODE (CFC) SECTION 907. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE DIVISION OF THE STATE ARCHITECT (DSA) INSPECTOR OF RECORD.		
6.	PROVIDE COMPLETE SYSTEM WIRING. ALL WIRING SHALL BE IN MINIMUM 3/4" CONDUIT. NO OTHER SYSTEMS WIRING SHALL BE ROUTED IN THE FIRE ALARM CIRCUITS. HARDWIRED INITATION CIRCUITS SHALL BE MINIMUM #14 THHN/THWN. SYSTEMS WIRING SHALL BE PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS AND THEIR REQUIREMENTS. ALL CONDUIT SHALL BE INSTALLED WITH COMPRESSION FITTINGS FOR COUPLERS AND BOX CONNECTORS.		
7.	WIRING AND MATERIALS PER CEC 760.		
8.	THE LOCATION OF AUTOMATIC DETECTORS, MANUAL STATIONS AND OTHER FIRE ALARM EQUIPMENT AND DEVICES, AS SHOWN ON PLAN, ARE FOR REFERENCE ONLY AND DO NOT CONSTITUTE SHOP DRAWINGS WHICH ARE REQUIRED FOR REVIEW AND APPROVAL.		
9.	BEFORE REQUESTING FINAL APPROVAL OF THE INSTALLATION, THE INSTALLING CONTRACTOR SHALL FURNISH A WRITTEN STATEMENT TO THE PROJECT INSPECTOR TO THE EFFECT THAT THE SYSTEM HAS BEEN INSTALLED AND TESTED IN ACCORDANCE WITH THE (2016) NFPA 72 SECTION 14.4		
		NOTES	
		1. WALL MOUNTED DEVICES SHALL BE "RED"	
		2. CEILING MOUNTED DEVICES SHALL BE "WHITE"	

ELECTRICAL SYMBOL NOTES	
	LIGHTING FIXTURE TAG DESCRIPTORS: TOP VALUE: FIXTURE TYPE ID. BOTTOM VALUE, NUMBER: CIRCUIT NUMBER, REFER TO DRAWINGS FOR PANEL. BOTTOM VALUE, LOWERCASE LETTER: SWITCH DESIGNATION. ABSENCE OF A SWITCH ID INDICATES FIXTURE IS CONTROLLED BY THE ONLY SWITCH IN THE SPACE. "X" IN PLACE OF THE SWITCH ID INDICATES NIGHT LIGHT, UNSWITCHED.
	EXIT LIGHTS. STEM INDICATES WALL MOUNTING. NO STEM INDICATES CEILING MOUNTING. SHADED AREA INDICATES ILLUMINATED FACE(S). ARROW INDICATES DIRECTIONAL ARROW ON ILLUMINATED FACE(S). THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER. EXAMPLE: THE WALL MOUNTED EXIT LIGHT TYPE "E1" WITH SINGLE FACE AND DIRECTIONAL ARROW IS CONNECTED TO CIRCUIT 1. DEVICES. THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER. THE SWITCH DESIGNATION IS INDICATED BY A LOWER CASE LETTER. EXAMPLE: SPLIT DUPLEX RECEPTACLE IS CONNECTED TO CIRCUIT 1 AND ONE RECEPTACLE OUTLET IS CONTROLLED BY SWITCH "d". THE CONTROL DEVICE DESIGNATION IS INDICATED BY A LOWER CASE LETTER. EXAMPLE: SINGLE POLE SWITCH "d" TO CONTROL LIGHTING FIXTURES INDICATED BY "d".
	WALL BOX DIMMER WITH SIZE AS INDICATED AT DEVICE. EXAMPLE: 600 WATT WALL BOX DIMMER TO CONTROL LIGHTING FIXTURES INDICATED BY "e". SEE SPECIFICATIONS FOR WATTAGE IF NOT INDICATED.
	SPECIAL CONNECTIONS. THE EQUIPMENT IS INDICATED BY A NUMBER IN A CIRCLE. SEE THE MOTOR AND EQUIPMENT SCHEDULE FOR THE LOAD DESCRIPTION AND TYPE OF CONNECTION. THE CIRCUIT DESIGNATION IS INDICATED BY NUMBER(S) ADJACENT TO THE SYMBOL. EXAMPLE: EQUIPMENT NO. ELEC-1; 1 PHASE CONNECTION TO CIRCUITS 2, 4.
	PANELBOARDS. PANELBOARD DOORS MAY BE SHOWN TO INDICATE OPENING SIDE OF RECESSED PANELBOARDS. SEE PANELBOARD IDENTIFICATION FOR DESIGNATION CODES.
	FLOOR CLEARANCE AREA
	MOTOR CONNECTIONS. THE MOTOR IS INDICATED BY A NUMBER WITHIN OR CHARACTERS ADJACENT TO THE MOTOR SYMBOL. SEE THE MOTOR AND EQUIPMENT SCHEDULE FOR THE MOTOR DESCRIPTION AND ELECTRICAL REQUIREMENTS.
	TRANSFORMERS. THE TRANSFORMER TYPE IS INDICATED BY A NUMBER FOLLOWING THE UPPER CASE LETTER "T". SEE THE TRANSFORMER SCHEDULE OR THE SINGLE LINE DIAGRAM FOR THE TRANSFORMER DESCRIPTION AND REQUIREMENTS. EXAMPLE: TRANSFORMER TYPE "T1".
	CONDUIT IN CEILING, FLOOR OR WALL AS REQUIRED BY FIELD CONDITIONS
	CONDUIT IN FLOOR
	CONDUIT SHOWN WITHOUT SLASH MARKS SHALL CONTAIN 1 # 12 CONDUCTOR PER PHASE, NEUTRAL, AND GROUND IN 3/4" CONDUIT UNLESS SPECIFIC EQUIPMENT REQUIRES A DIFFERENT SIZE.
	CONDUIT SHOWN SHALL CONTAIN 1 # 10 CONDUCTOR PER PHASE IN ELECTRICAL CODE SIZED MINIMUM CONDUIT UNLESS A CONDUCTOR AND CONDUIT SIZE IS SHOWN ADJACENT.
	HOME RUN TO BRANCH CIRCUIT PANELBOARD. THE PANELBOARD DESIGNATION IS SHOWN ADJACENT TO THE HOME RUN ARROW AS A NUMERATOR AND THE CIRCUIT DESIGNATION IS SHOWN AS THE DENOMINATOR. CIRCUIT BREAKER SIZES (AMPS/NUMBER OF POLES) ARE SHOWN IN THE PANELBOARD SCHEDULE WITH THE CORRESPONDING PANELBOARD AND CIRCUIT DESIGNATION. EXAMPLE: HOME RUN TO PANELBOARD P4N-102; CIRCUITS 1, 3, 5.
	EXISTING CONDUIT TO REMAIN
	EXISTING CONDUIT TO BE REMOVED

MEP COMPONENT ANCHORAGE NOTE	
ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 29 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 FLEXIBLE CABLE. 3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF THAT DIRECTLY SUPPORT THE COMPONENT ARE REQUIRED TO BE RETRAINED WITH TEMPORARY ATTACHMENTS.	
THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.	
A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT. B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTION SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.	
FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.	
PIPING, DUCTWORK, & ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE	
PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO RESIST THE FORCES PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25, AND 1617A.1.26.	
THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON PREAPPROVED INSTALLATION GUIDE (E.G., SMAACNA OR OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.	
MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E): MP □ MD □ PP □ E ☒ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS MP □ MD □ PP □ E □ OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM #) #0043-13.	

ELECTRICAL SHEET INDEX	
SHEET NUMBER	SHEET NAME
E0.1	ELECTRICAL LEGENDS & NOTES
E0.2	TITLE 24 LTI FORMS
E1.0	OVERALL ELECTRICAL PLAN
E2.0	LIGHTING AND POWER DEMO PLANS
E2.1	FIRE ALARM AND SIGNAL DEMO PLANS
E2.2	LIGHTING AND POWER PLANS
E2.3	SIGNAL AND FIRE ALARM PLANS
E3.0	ELECTRICAL SCHEDULES, CALCULATIONS, AND DETAILS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120870 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 02/23/2023

HARRINGTON
DESIGN
ASSOCIATES

5875 PACIFIC STREET, SUITE E2
ROCKLIN, CA 95677 (916) 577-5789
www.HarringtonDA.com

ARCHITECT

Ccapital
engineering

RANCHO CORDOVA, CALIFORNIA
JGH - DY, NH, JH 221205.00
PM - DESIGN TEAM PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARY
No. E 23927
3/31/2024
ELECTRICAL
STATE OF CALIFORNIA
2/16/2023

DATE SIGNED:
ENGINEER

YUBA CITY UNIFIED
SCHOOL DISTRICT

OWNER

ADMINISTRATION
OFFICE REMODEL

APRIL LANE
ELEMENTARY SCHOOL
800 April Lane,
Yuba City, CA 95991

REVISIONS

DATE: December 30, 2022

ELECTRICAL
LEGENDS &
NOTES

E0.1

JOB NO. 2149.00

STATE OF CALIFORNIA

Indoor Lighting

NRCC-LTI-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

Project Name: April Lane ES - Administration Office Remodel

Report Page: (Page 3 of 7)

Project Address: 800 April Lane

Date Prepared: 12/27/2022

F. INDOOR LIGHTING FIXTURE SCHEDULE

B	B - WALL MOUNTED VANITY LTG	No	No	25	Mfr. Spec	1	No	25		
Total Designed Watts: CONDITIONED SPACES								529		

¹FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)(4) is adjusted to be 75% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.

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

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces. When a control having a * is shown, the notes section of this table provides more detail on how compliance is achieved. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.

Building Level Controls

01	02	03	
Mandatory Demand Response §110.12(c)	Shut-off controls §130.1(c)	Field Inspector	
		Pass	Fail
Not Required <= 10,000 SF	Whole Building Other		

Registration Number:

Registration Date/Time:

Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Report Version: 2019.1.003

Schema Version: rev 20200601

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STATE OF CALIFORNIA

Indoor Lighting

NRCC-LTI-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

Project Name: April Lane ES - Administration Office Remodel

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Date Prepared: 12/27/2022

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)	Allowed Lighting Power per §140.6(b) (Watts)					Adjusted Lighting Power per §140.6(a) (Watts)					Compliance Results
	01	02	03	04	05	06	07	08	09		
	Complete Building §140.6(c)(1)	Area Category §140.6(c)(2)	Area Category Additional §140.6(c)(2)(*)	Tailored §140.6(c)(3) (*)	Total Allowed (Watts)	Total Designed (Watts)	PAF Lighting Control Credits §140.6(a)(2) (-)	Adjustments	Total Adjusted (Watts) *Includes Adjustments		
	(See Table I)	(See Table I)	(See Table J)	(See Table K)		(See Table F)	(See Table P)				
	Conditioned	644.1	0		=	644	≥	529	0	=	
Unconditioned					=		≥				COMPLIES
Controls Compliance (See Table H for Details)											
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.

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all permanent designed lighting and all portable lighting in offices.

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)(3)	Design Watts	Field Inspector	
									Pass	Fail
A	A - 2X4 RECESSED TROFFER	No	No	36	Mfr. Spec	14	No	504		

Registration Number:

Registration Date/Time:

Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

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STATE OF CALIFORNIA

Indoor Lighting

NRCC-LTI-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

Project Name: April Lane ES - Administration Office Remodel

Report Page: (Page 1 of 7)

Project Address: 800 April Lane

Date Prepared: 12/27/2022

A. GENERAL INFORMATION

01 Project Location (city)	Yuba City	04 Total Conditioned Floor Area (ft²)	868
02 Climate Zone	11	05 Total Unconditioned Floor Area (ft²)	0
03 Occupancy Types Within Project (select all that apply):		06 # of Stories (Habitable Above Grade)	1
• Office • Support Areas • See Table I			

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 or §141.0(b)(2) 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				
☐ New Lighting System - Parking Garage				
☒ Altered Lighting System	Area Category Method	868	Area Category Method	0
Total Area of Work (ft²)		868	0	

Registration Number:

Registration Date/Time:

Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

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Schema Version: rev 20200601

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STATE OF CALIFORNIA

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CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

Project Name: April Lane ES - Administration Office Remodel

Report Page: (Page 6 of 7)

Project Address: 800 April Lane

Date Prepared: 12/27/2022

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. 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 at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRC/

Form/Title

Field Inspector

Pass

Fail

NRCC-LTI-01-E - Must be submitted for all buildings

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

Registration Number:

Registration Date/Time:

Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

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STATE OF CALIFORNIA

Indoor Lighting

NRCC-LTI-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

Project Name: April Lane ES - Administration Office Remodel

Report Page: (Page 5 of 7)

Project Address: 800 April Lane

Date Prepared: 12/27/2022

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

RESTROOM	Restrooms	0.65	50	32.5	No	No
TOTALS:		868	644.1	See Tables J, or P for detail		

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 ORNAMENTAL/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 ALTERATIONS

This section does not apply to this project.

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

This section does not apply to this project.

Registration Number:

Registration Date/Time:

Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Report Version: 2019.1.003

Schema Version: rev 20200601

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STATE OF CALIFORNIA

Indoor Lighting

NRCC-LTI-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

Project Name: April Lane ES - Administration Office Remodel

Report Page: (Page 4 of 7)

Project Address: 800 April Lane

Date Prepared: 12/27/2022

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	Area Controls §130.1(a)	Multi-Level Controls §130.1(b)	Shut-Off Controls §130.1(c)	Primary/Sky lit Daylighting §130.1(d)	Secondary Daylighting §140.6(d)	Interlocked Systems §140.6(a)(1)	Field Inspector	
								Pass	Fail
OFFICES	Office 250 square feet or less	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No		
HALLWAY	Corridor Area	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No		
RESTROOM	Restrooms	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No		
RECEPTION	Main Entry Lobby	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No		

*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.

EX Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)(2)

13

Plan Sheet Showing Daylit Zones:

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

Each area complying using the Complete Building or Area Category Methods per §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	
OFFICES	Office 250 square feet or less	0.7	428	299.6	No	No
RECEPTION	Main Entry Lobby	0.85	312	265.2	No	No
HALLWAY	Corridor Area	0.6	78	46.8	No	No

Registration Number:

Registration Date/Time:

Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Report Version: 2019.1.003

Schema Version: rev 20200601

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STATE OF CALIFORNIA

Indoor Lighting

NRCC-LTI-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

Project Name: April Lane ES - Administration Office Remodel

Report Page: (Page 7 of 7)

Project Address: 800 April Lane

Date Prepared: 12/27/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: JOHN GUMAWID

Documentation Author Signature:

Company: CAPITAL ENGINEERING CONSULTANTS INC.

Signature Date: 2022-12-27

Address: 11020 SUN CENTER DR

City/State/Zip: RANCHO CORDOVA, CA 95670

CEA/HERS Certification Identification (if applicable):

Phone: 916.851.3583

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: NATHAN HEARN

Company: Capital Engineering Consultants Inc

Address: 11020 Sun Center Dr

City/State/Zip: Rancho Cordova CA 95670

Responsible Designer Signature:

Date Signed: 2022-12-27

License: E24187

Phone: 916.851.3568

Registration Number:

Registration Date/Time:

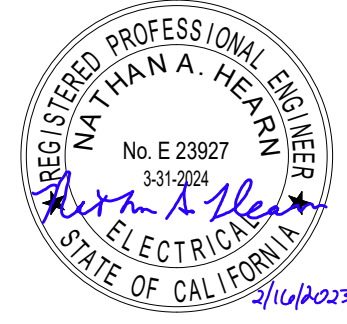
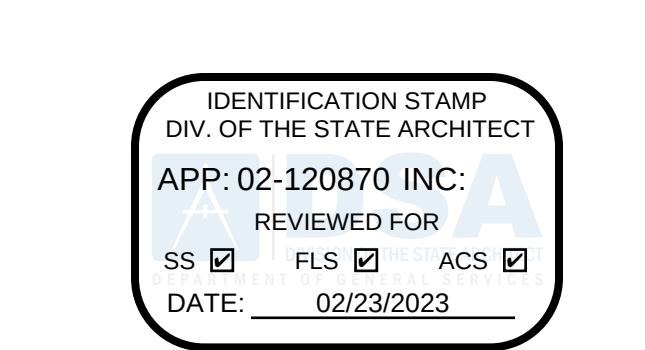
Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

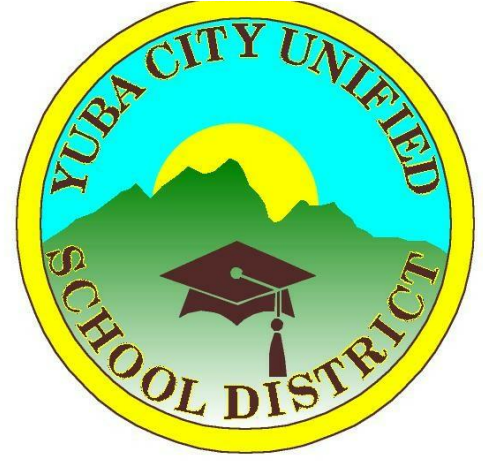
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Schema Version: rev 20200601

Report Generated: 2022-12-27 13:04:46



DATE SIGNED:
ENGINEER



OWNER
ADMINISTRATION
OFFICE REMODEL

APRIL LANE
ELEMENTARY SCHOOL
800 April Lane,
Yuba City, CA 95991

REVISIONS	

DATE: December 30, 2022

TITLE 24 LTI
FORMS

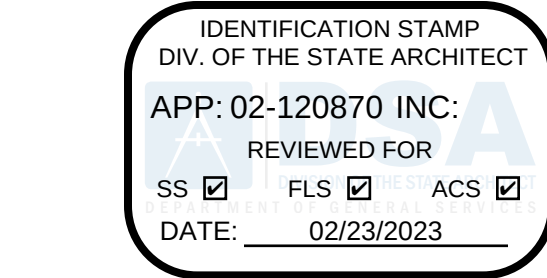
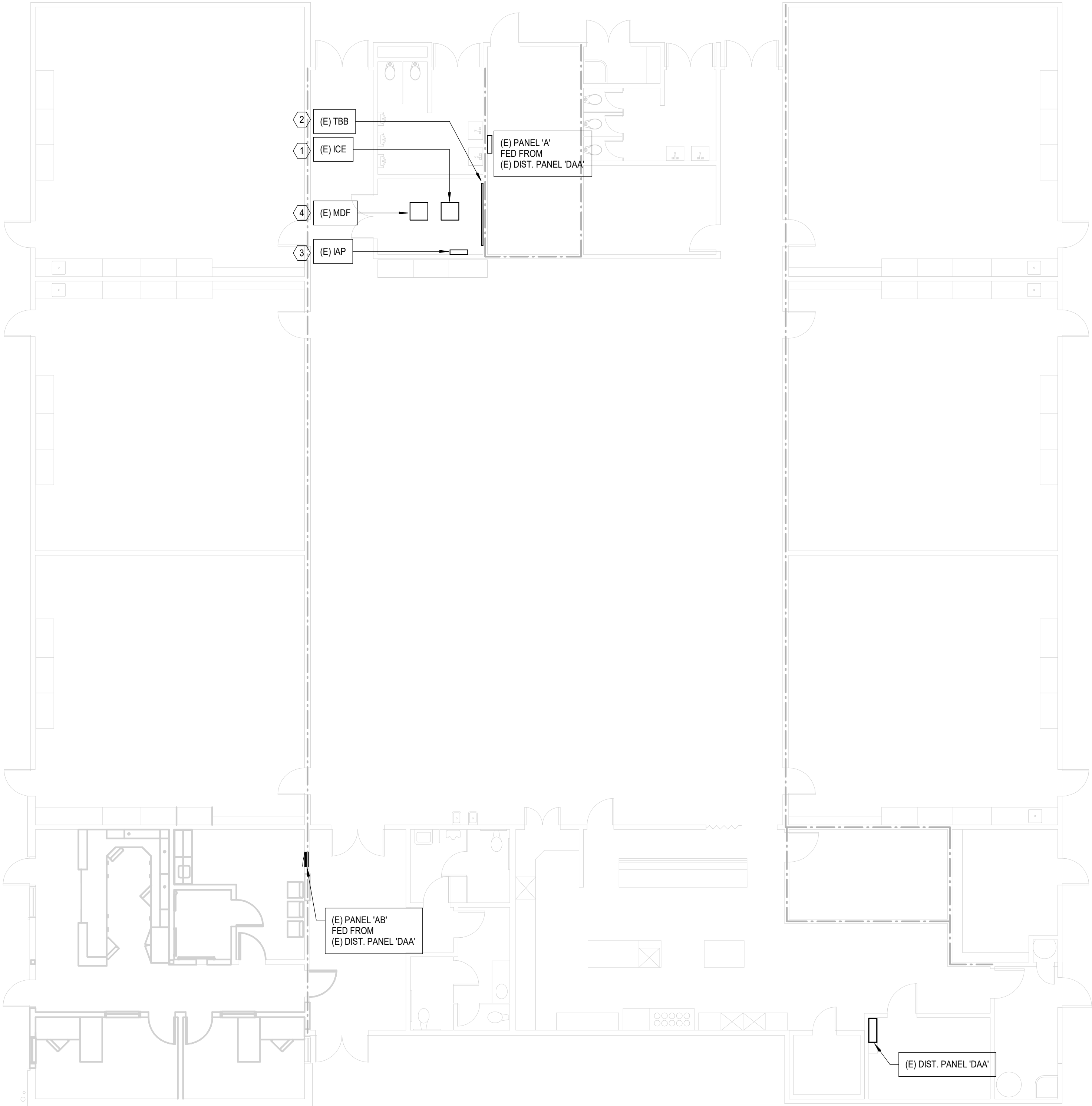
E0.2

KEYNOTES:

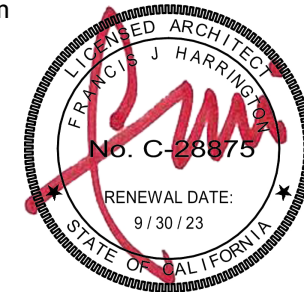
- 1 (E) INTERCOM/CLOCK EQUIPMENT WITH BOGEN MULTICOM 2000 SYSTEM. PROVIDE ALL NECESSARY EQUIPMENT, WIRING TO RECONNECT.
- 2 (E) TELEPHONE BACKBOARD. RECONNECT FACD DIALER AS REQUIRED.
- 3 (E) INTRUSION ALARM PANEL. RECONNECT DEVICES AS REQUIRED.
- 4 (E) MDF. PROVIDE CAT6, CAT6e, CAT6A, JACKS AND PATCH PANEL AS REQUIRED FOR CONNECTION OF NEW CABLES.

LEGEND:

1 HR OCCUPANCY SEPARATION.



5875 PACIFIC STREET, SUITE E2
ROCKLIN, CA 95677 (916) 577-5789
www.HarringtonDA.com



ARCHITECT



DATE SIGNED:

ENGINEER



OWNER

ADMINISTRATION
OFFICE REMODEL

APRIL LANE
ELEMENTARY SCHOOL

800 April Lane,
Yuba City, CA 95991

REVISIONS

NO.	DESCRIPTION	DATE

DATE: December 30, 2022

OVERALL
ELECTRICAL PLAN

E1.0

LIGHTING DEMOLITION KEYNOTES:

- 1 (E) PANEL 'AB' TO REMAIN
- 2 (E) OUTLET BOX WITH LIGHTING CIRCUITS TO REMAIN.
- 3 (E) HOMERUN WITH LIGHTING CIRCUITS TO REMAIN.
- 4 (E) CONDUITS AND WIRES TO REMAIN.
- 5 (E) LIGHTING FIXTURE TO REMAIN. PROVIDE CIRCUIT CONTINUITY. BACK TO THE J-BOX IN KEYNOTE #7. SEE OVERALL ELECTRICAL PLAN FOR APPROXIMATE LOCATION OF PANEL 'A'.
- 6 TYPICAL - REMOVE (E) LIGHT SWITCH INCLUDING CONDUITS, WIRES AND BOX. PATCH AND PAINT WALL TO MATCH NEW COLOR AND FINISH.
- 7 TYPICAL - REMOVE (E) LIGHTING FIXTURE INCLUDING CONDUITS, WIRES, AND BOX. PATCH AND PAINT CEILING TO MATCH NEW COLOR AND FINISH.

POWER DEMOLITION KEYNOTES:

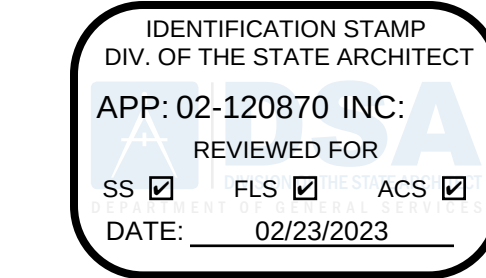
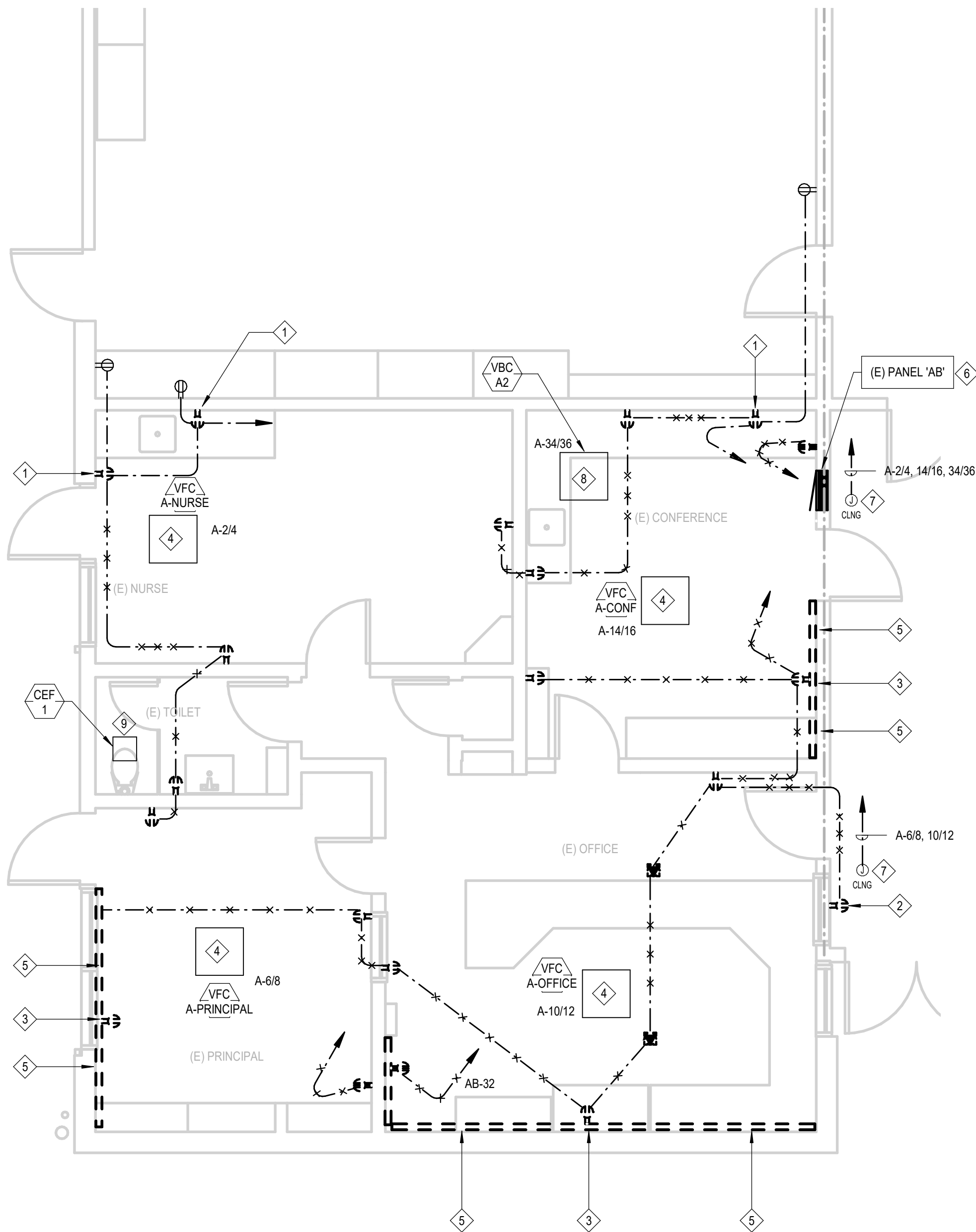
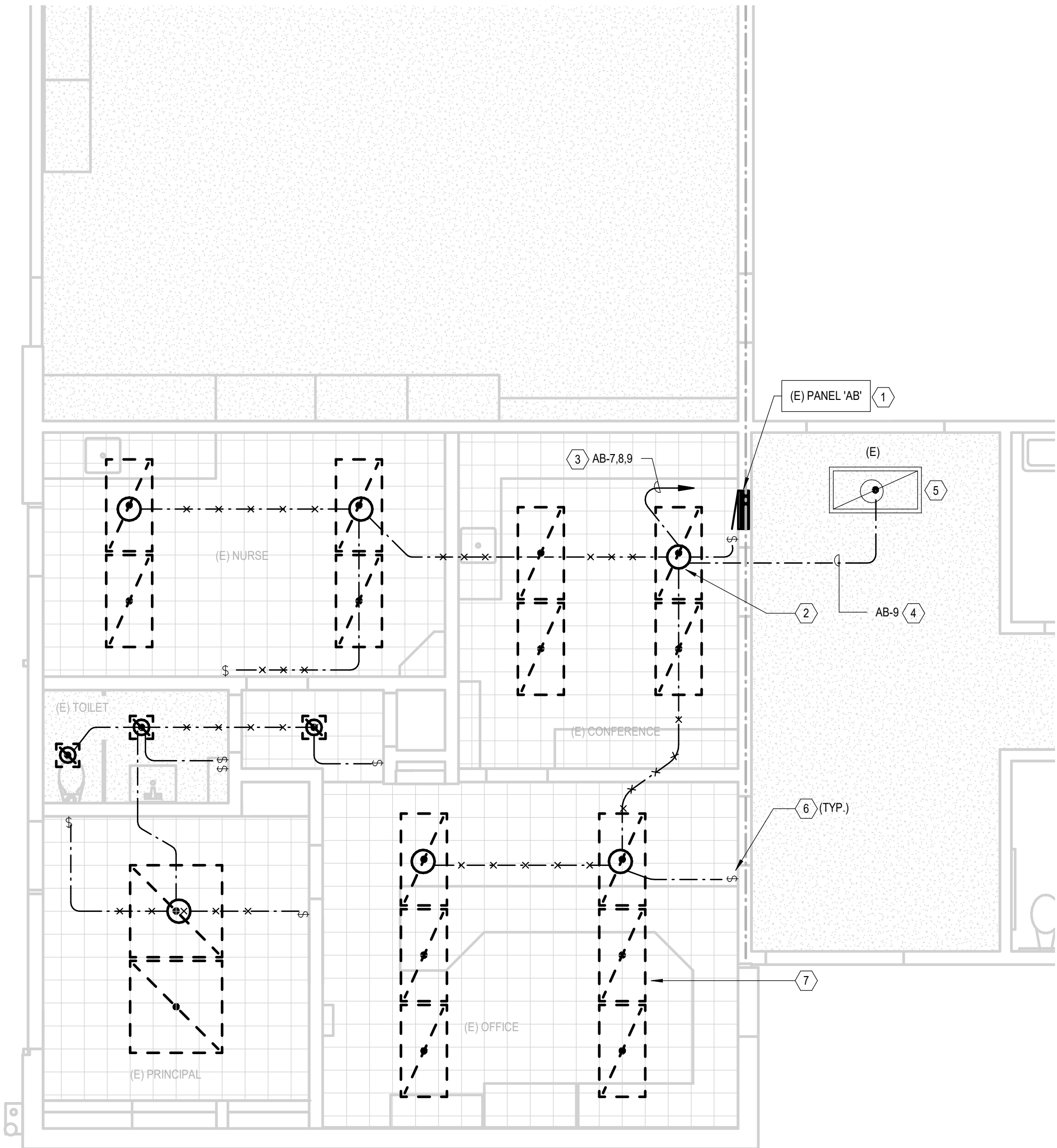
- 1 REMOVE (E) RECEPTACLE. BRANCH CIRCUIT TO REMAIN. PROVIDE BLANK COVER FOR OUTLET BOX.
- 2 REMOVE (E) RECEPTACLE. PROVIDE BLANK COVER FOR OUTLET BOX.
- 3 REMOVE (E) RECEPTACLE INCLUDING OUTLET BOX. PATCH AND PAINT TO MATCH NEW COLOR AND FINISH.
- 4 DISCONNECT (E) HVAC UNIT. REMOVE CONDUIT, WIRES, RECEPTACLES, ETC. BACK TO THE J-BOX IN KEYNOTE #7. SEE OVERALL ELECTRICAL PLAN FOR APPROXIMATE LOCATION OF PANEL 'A'.
- 5 REMOVE (E) SURFACE RACEWAY INCLUDING WIRES BACK TO SOURCE.
- 6 (E) PANEL 'AB' TO REMAIN.
- 7 (E) JBOX IN THE CEILING SPACE CONTAINS CIRCUITS FOR HVAC. PROTECT IN PLACE. CIRCUIT SHALL BE REUSED TO REFEED HVAC. SEE RENOVATION PLANS.
- 8 (E) HVAC UNIT EXISTING TO REMAIN. PROTECT IN PLACE DISCONNECT, CONDUIT AND WIRES.
- 9 DISCONNECT (E) HVAC UNIT. REMOVE CONDUIT, WIRES, RECEPTACLES, ETC. BACK TO SOURCE.

GENERAL NOTES:

- 1. THE DESIGN HAS BEEN BASED ON RECORD DRAWINGS AND SITE OBSERVATIONS. CONTRACTOR SHALL PERFORM INVESTIGATION OF EXISTING CONDITIONS PRIOR TO INSTALLATION OF NEW WORK. CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY OF EXISTING CONDITIONS THAT MAY NOT ALLOW INSTALLATION OF NEW WORK AS SHOWN.

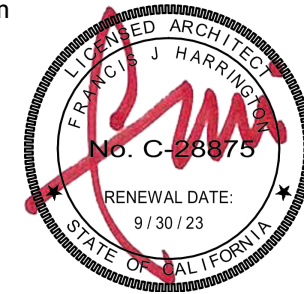
LEGEND:

1 HR OCCUPANCY SEPARATION.



HARRINGTON
DESIGN
ASSOCIATES

5875 PACIFIC STREET, SUITE E2
ROCKLIN, CA 95677 (916) 577-5789
www.HarringtonDA.com



ARCHITECT



JGH - DY, NH, JH 221205.00
PM - DESIGN TEAM PROJECT NO.



DATE SIGNED:

ENGINEER



OWNER

ADMINISTRATION
OFFICE REMODEL

APRIL LANE
ELEMENTARY SCHOOL

800 April Lane,
Yuba City, CA 95991

REVISIONS

NO.	DESCRIPTION	DATE

DATE: December 30, 2022

LIGHTING AND
POWER DEMO
PLANS

E2.0

FIRE ALARM DEMOLITION KEYNOTES:

- 1 (E) FIRE ALARM ATTIC HEAT DETECTOR TO REMAIN.
- 2 (E) FIRE ALARM PULL BOX TO REMAIN.
- 3 (E) FIRE ALARM HORN/STROBE TO REMAIN.
- 4 REMOVE AND RELOCATE (E) FIRE ALARM PANEL.
- 5 REMOVE AND RELOCATE (E) FIRE ALARM CABINET WITH MODULES.
- 6 REMOVE EXISTING FIRE ALARM DEVICES INCLUDING OUTLET BOX UNLESS OTHERWISE NOTED.
- 7 (E) FIRE ALARM MANUAL PULL STATION TO REMAIN.

SIGNAL DEMOLITION KEYNOTES:

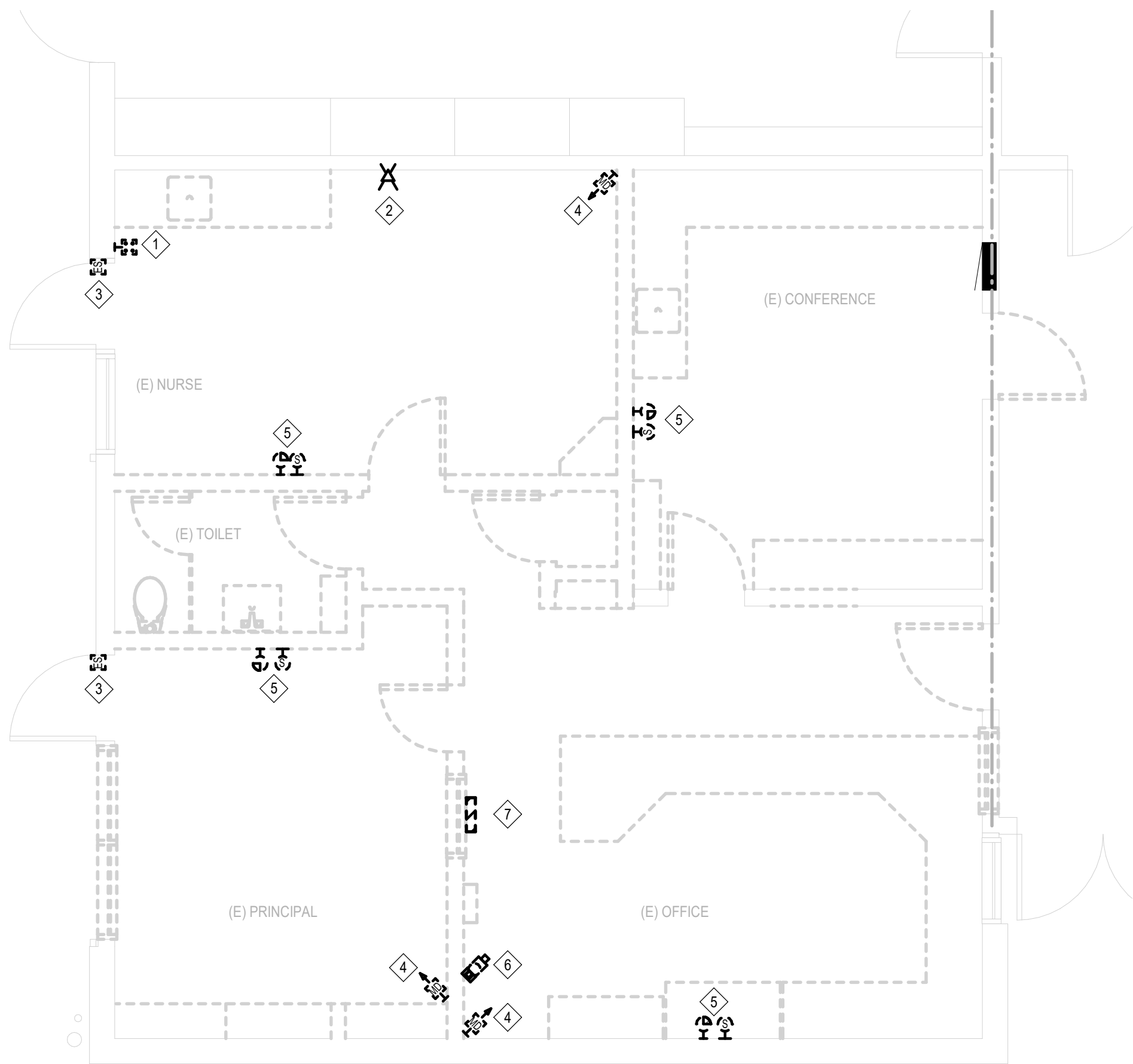
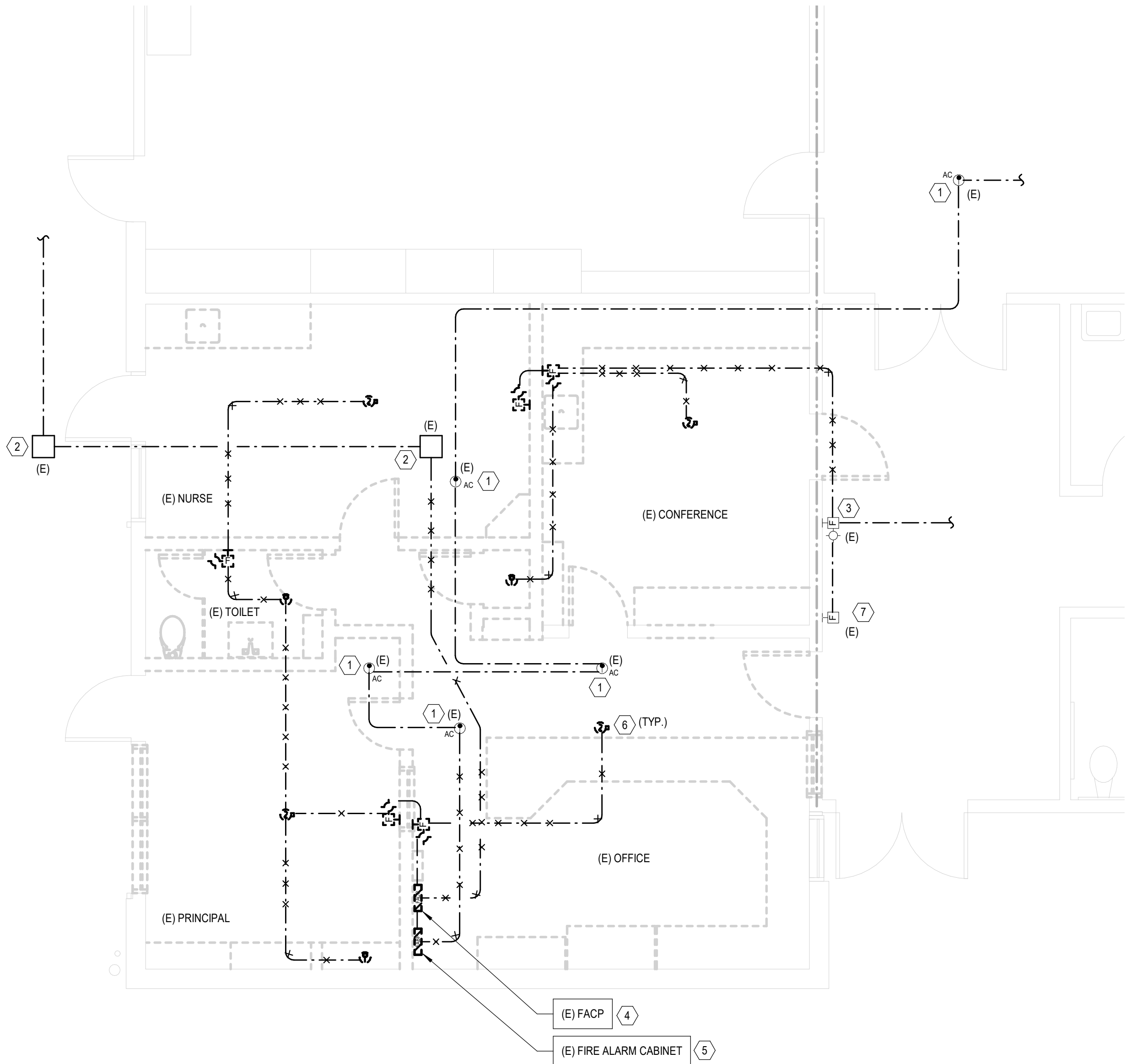
- 1 REMOVE AND RELOCATE (E) INTRUSION ALARM KEY PAD.
- 2 REMOVE AND RELOCATE (E) WIRELESS SWITCH.
- 3 REMOVE AND RELOCATE (E) INTRUSION DOOR ALARM CONTACT.
- 4 REMOVE AND RELOCATE (E) INTRUSION ALARM DETECTOR.
- 5 REMOVE AND RELOCATE (E) CLOCK / SPEAKER UNIT.
- 6 REMOVE AND RELOCATE (E) CCTV CAMERA.
- 7 REMOVE (E) TELEPHONE CABINET BELOW FIRE ALARM PANEL INCLUDING CONDUIT AND WIRES BACK TO SOURCE.

GENERAL NOTES:

- 1. THE DESIGN HAS BEEN BASED ON RECORD DRAWINGS AND SITE OBSERVATIONS. CONTRACTOR SHALL PERFORM INVESTIGATION OF EXISTING CONDITIONS PRIOR TO INSTALLATION OF NEW WORK. CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY OF EXISTING CONDITIONS THAT MAY NOT ALLOW INSTALLATION OF NEW WORK AS SHOWN.

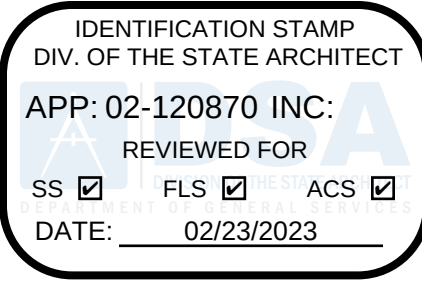
LEGEND:

1 HR OCCUPANCY SEPARATION.

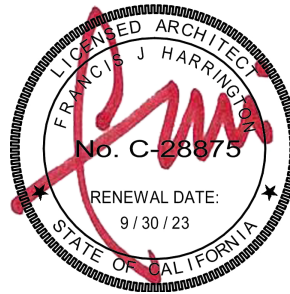


1 FIRE ALARM DEMO PLAN
E2.1 SCALE: 1/4" = 1'-0"

2 SIGNAL DEMO PLAN
E2.1 SCALE: 1/4" = 1'-0"



5875 PACIFIC STREET, SUITE E2
ROCKLIN, CA 95677 (916) 577-5789
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ARCHITECT



RANCHO CORDOVA, CALIFORNIA
JGH - DY, NH, JH 221205.00
PM - DESIGN TEAM PROJECT NO.



DATE SIGNED:

ENGINEER



OWNER

ADMINISTRATION
OFFICE REMODEL

APRIL LANE
ELEMENTARY SCHOOL

800 April Lane,
Yuba City, CA 95991

REVISIONS

NO.	DESCRIPTION	DATE

DATE: December 30, 2022

FIRE ALARM AND
SIGNAL DEMO
PLANS

E2.1

JOB NO. 2149.00

LIGHTING CONSTRUCTION KEYNOTES:

1. CEILING EXHAUST FAN TO INTERLOCK WITH LIGHTING CONTROLS. PROVIDE AUXILIARY CONTACT FOR CEILING EXHAUST FAN CIRCUIT.

POWER CONSTRUCTION KEYNOTES:

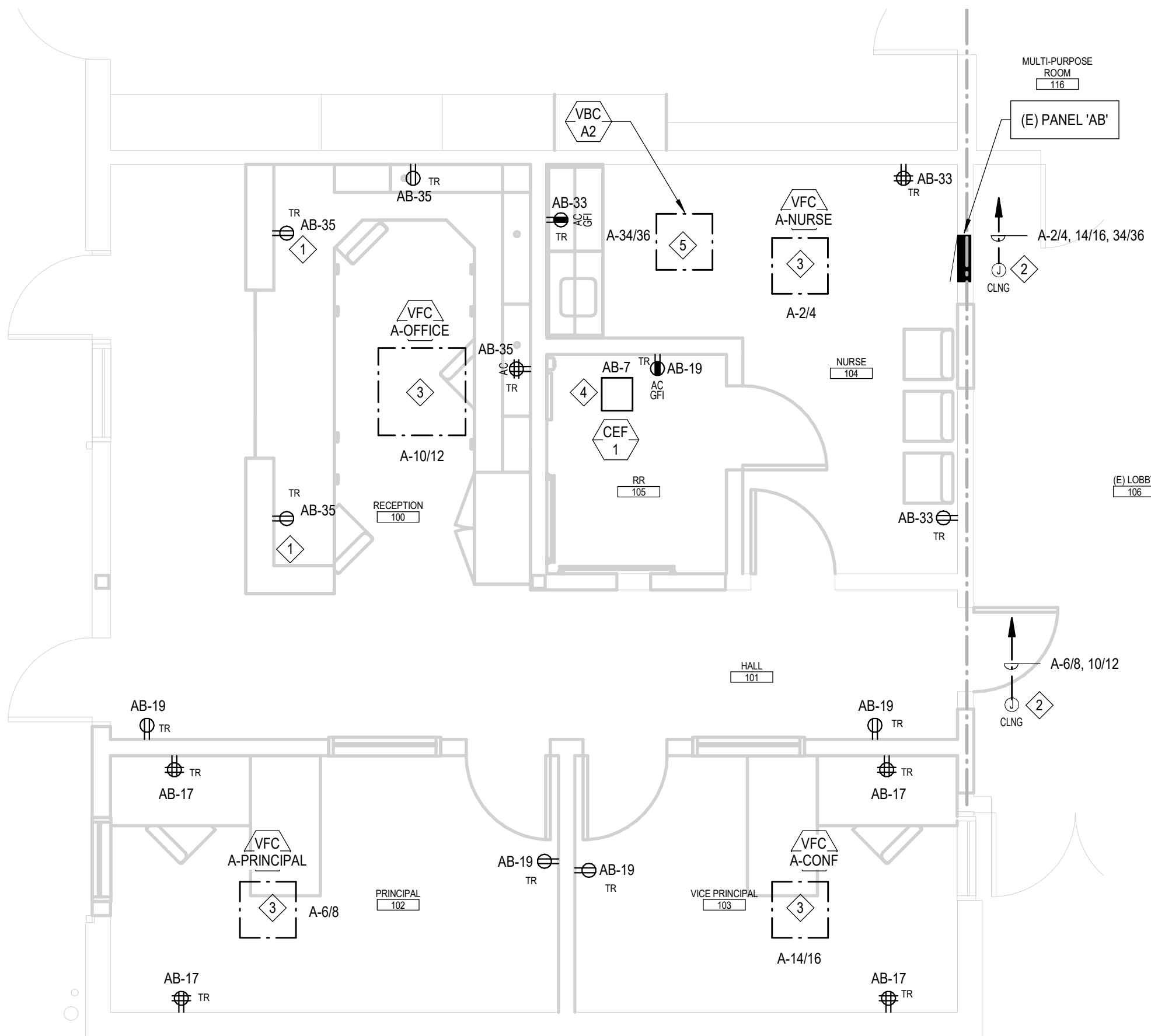
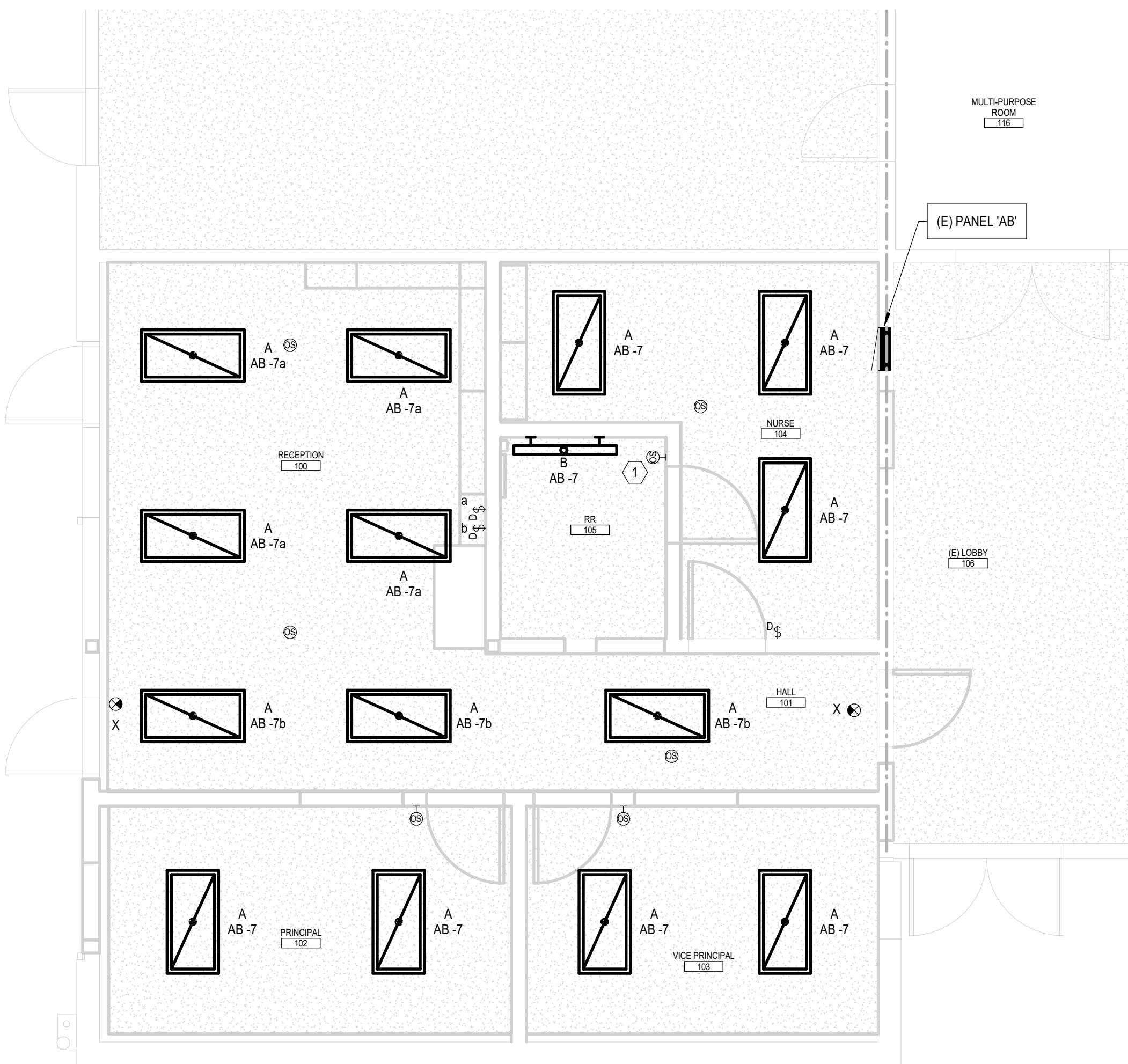
1. SURFACE MOUNT POWER RECEPTACLE FOR RECEPTION DESK BELOW THE WORKING SURFACE. COORDINATE EXACT MOUNTING HEIGHT WITH CASEWORK INSTALLER.
2. J-BOX WITH HVAC UNITS CIRCUITS IN ACCESSIBLE CEILING SPACE.
3. PROVIDE CONDUIT AND WIRING TO EXTEND EXISTING HVAC CIRCUIT TO NEW LOCATION. PROVIDE NEW DISCONNECT SWITCH TO MATCH DEMOLISHED DISCONNECT SWITCH. REFER TO POWER DEMOLITION PLAN ON SHEET E2.0 FOR ADDITIONAL INFORMATION.
4. PROVIDE POWER FOR CEILING EXHAUST FAN. ROUTE CIRCUIT THROUGH AUXILIARY CONTACTS PROVIDED WITH THE WALL MOUNTED MOTION SENSOR.
5. (E) HVAC UNIT TO REMAIN. PROTECT IN PLACE.

GENERAL NOTES:

1. THE DESIGN HAS BEEN BASED ON RECORD DRAWINGS AND SITE OBSERVATIONS. CONTRACTOR SHALL PERFORM INVESTIGATION OF EXISTING CONDITIONS PRIOR TO INSTALLATION OF NEW WORK. CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY OF EXISTING CONDITIONS THAT MAY NOT ALLOW INSTALLATION OF NEW WORK AS SHOWN.

LEGEND:

1 HR OCCUPANCY SEPARATION.



1

LIGHTING PLAN

E2.2

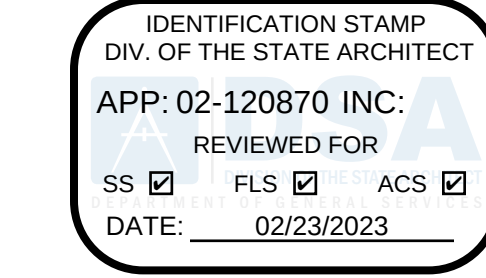
SCALE: 1/4" = 1'-0"

2

POWER PLAN

E2.2

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



HARRINGTON
DESIGN
ASSOCIATES

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ENGINEER



OWNER

ADMINISTRATION
OFFICE REMODEL

APRIL LANE
ELEMENTARY SCHOOL

800 April Lane,
Yuba City, CA 95991

REVISIONS

DATE: December 30, 2022

LIGHTING AND
POWER PLANS

E2.2

JOB NO. 2149.00

FIRE ALARM EQUIPMENT SCHEDULE					
SYMBOL	EQUIPMENT / DEVICE	MANUFACTURER AND MODEL NUMBER	CSFM LISTING	STANDBY CURRENT (AMPS)	ALARM CURRENT (AMPS)
(E)	(E) FIRE ALARM CONTROL PANEL	(E) SILENT KNIGHT # 5820XL	7165-0559-0135	0.371	3.491
	FIRE ALARM BOOSTER PANEL	SILENT KNIGHT #5496	7300-0559-0171	0.04	0.160
	CONTROL RELAY MODULE	SILENT KNIGHT #SD500-ARM	7300-0559-0132	0.00055	0.00055
	MONITOR MODULE	SILENT KNIGHT #SD500-MIM	7300-0559-0132	0.00055	0.023
	SYNCHRONIZATION MODULE	SYSTEM SENSOR #MDL3R	7300-1653-0202	0.012	0.015
	ADDRESSABLE SMOKE DETECTOR	SILENT KNIGHT #SD505-APS	7272-0559-0129	0.00055	0.00055
	ADDRESSABLE HEAT DETECTOR (135F)	SILENT KNIGHT #SD505-HEAT	7270-0559-0177	0.00055	0.00055
	WALL MOUNTED HORN / STROBE (15cd)	WHELOCK #NS-24MCW	7125-0785-0142	0	0.066
	ADDRESSABLE MANUAL PULL STATION	SILENT KNIGHT SD500-PSDA	7150-0559-0136	0.00055	0.00055

LEGEND:

1 HR OCCUPANCY SEPARATION.

FIRE ALARM SYSTEM PROJECT NOTES

1. APPLICABLE STANDARD NFPA 72, AS ADOPTED AND AMENDED IN CBC CHAPTER 35.
2. INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATION, INCLUDING STATE FIRE MARSHALL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM, HAS BEEN APPROVED BY THE DSA.
3. UPON COMPLETION OF SYSTEM INSTALLATION, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF A DSA INSPECTOR.
4. A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION.
5. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND THE ARCHITECT/ENGINEER OF THE PROJECT.
6. DSA, ARCHITECT/ENGINEER, AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND/OR TESTING.
7. ALL PENETRATIONS THROUGH RATED ASSEMBLIES REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM AS IDENTIFIED IN CBC CHAPTER 7, UL, OR OTHER APPROVED LAB TESTING CRITERIA. APPROVED TYPES OF MATERIALS SHALL BE IDENTIFIED WITHIN THE PROJECT SPECIFICATIONS WITHIN THE FIRE ALARM SECTION.
8. WALL MOUNTED VISIBLE NOTIFICATION DEVICES SHALL HAVE THEIR BOTTOMS MOUNTED AT 80" MINIMUM AND 96" MAXIMUM FROM FINISHED FLOOR.
9. WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90" MINIMUM AND 100" MAXIMUM FROM THE FINISHED FLOOR AND NO CLOSER THAN 6" TO HORIZONTAL STRUCTURE.
10. AUDIBLE DEVICES SHALL PROVIDE A SOUND PRESSURE LEVEL OF 15 DECIBELS (dBA) ABOVE THE AVERAGE AMBIENT SOUND LEVEL OF 5 DECIBELS (dBA) ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF AT LEAST 60 SECONDS, WHICHEVER IS GREATER, IN EVERY OCCUPABLE SPACE WITHIN THE BUILDING.
11. AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL CODE 3 PATTERN.
12. THE CONTRACTORS ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
13. VISIBLE DEVICES SHOULD NOT EXCEED TWO FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN ONE FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELLA. VISIBLE DEVICES WITHIN 55' FROM EACH OTHER SHALL BE SYNCHRONIZED.
14. UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATER TIGHT FITTINGS AND WIRE TO BE APPROVED FOR WET LOCATIONS.
15. ALL FIRE ALARM WIRING SHALL BE FPL OR FPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE TYPE THHN OR THWN.
16. PER CEC STANDARDS, ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPLICE THE WIRE. ALL BOXES TO BE SIZED PER CEC.
17. SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 1' FROM FIRE SPRINKLERS OR 3' FROM ANY SUPPLY DIFFUSER, IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAINMENT ON NEWLY INSTALLED FIRE ALARM. DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER.
18. ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT, SURFACE RACEWAY, OR OPEN RUN ABOVE CEILINGS, UNDER FLOORS AND IN WALLS IN A NEAT AND PROTECTED MANNER AS INDICATED ON DESIGN DOCUMENTS. EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS.
19. FIRE ALARM PANEL, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURER'S SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS.
20. A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM THE COMMON USE AREA PANEL AND SHALL HAVE NO OTHER OUTLETS. THE BREAKER SHALL HAVE A RED LOCKING DEVICE TO BLOCK THE HANDLE IN THE "ON" POSITION. THE CIRCUIT BREAKER SHALL BE LABELED "FIRE ALARM CIRCUIT CONTROL". CIRCUIT ID TO BE LABELED AT FIRE PANEL/EXTENDERS.
21. THE INSTALLING CONTRACTOR SHALL PROVIDE A COMPLETED "SYSTEM RECORD OF COMPLETION" PER NFPA 72, FIGURE 17.8.2.
22. FIRE ALARM CONTROL PANELS AND REMOTE ANNUNCIATORS SHALL BE INSTALLED WITH THEIR BOTTOMS MOUNTED AT 48" ABOVE THE FINISHED FLOOR.
23. THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC SECTION 901.6.2.
24. SUPERVISORY MONITORING SHALL BE TESTED AND VERIFIED AS SENDING CORRECT SIGNALS IN CONJUNCTION WITH FINAL ACCEPTANCE TEST.
25. OWNERS SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS.

SIGNAL CONSTRUCTION KEYNOTES:

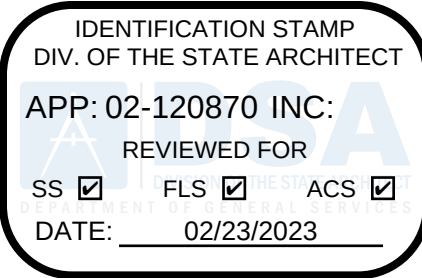
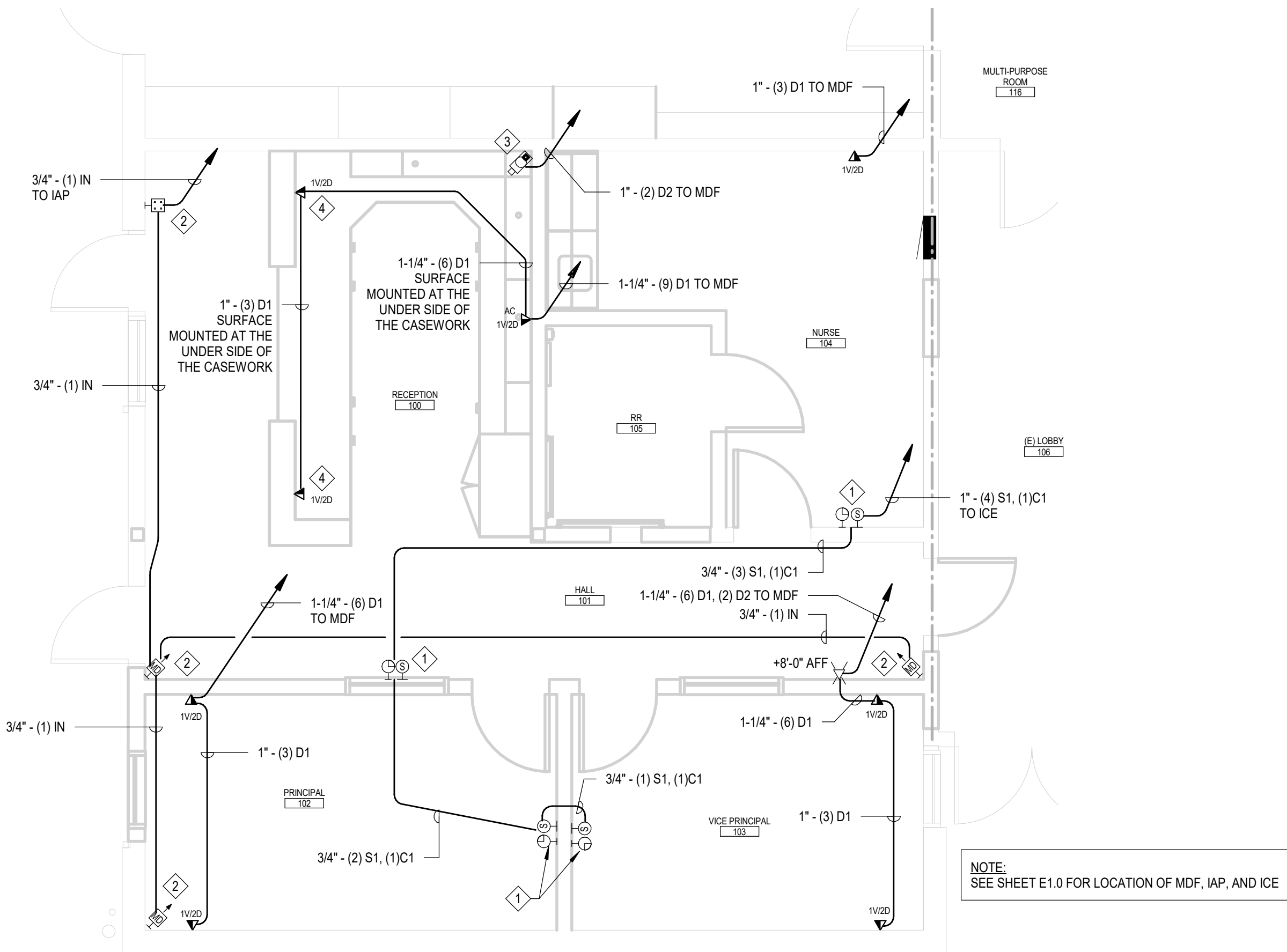
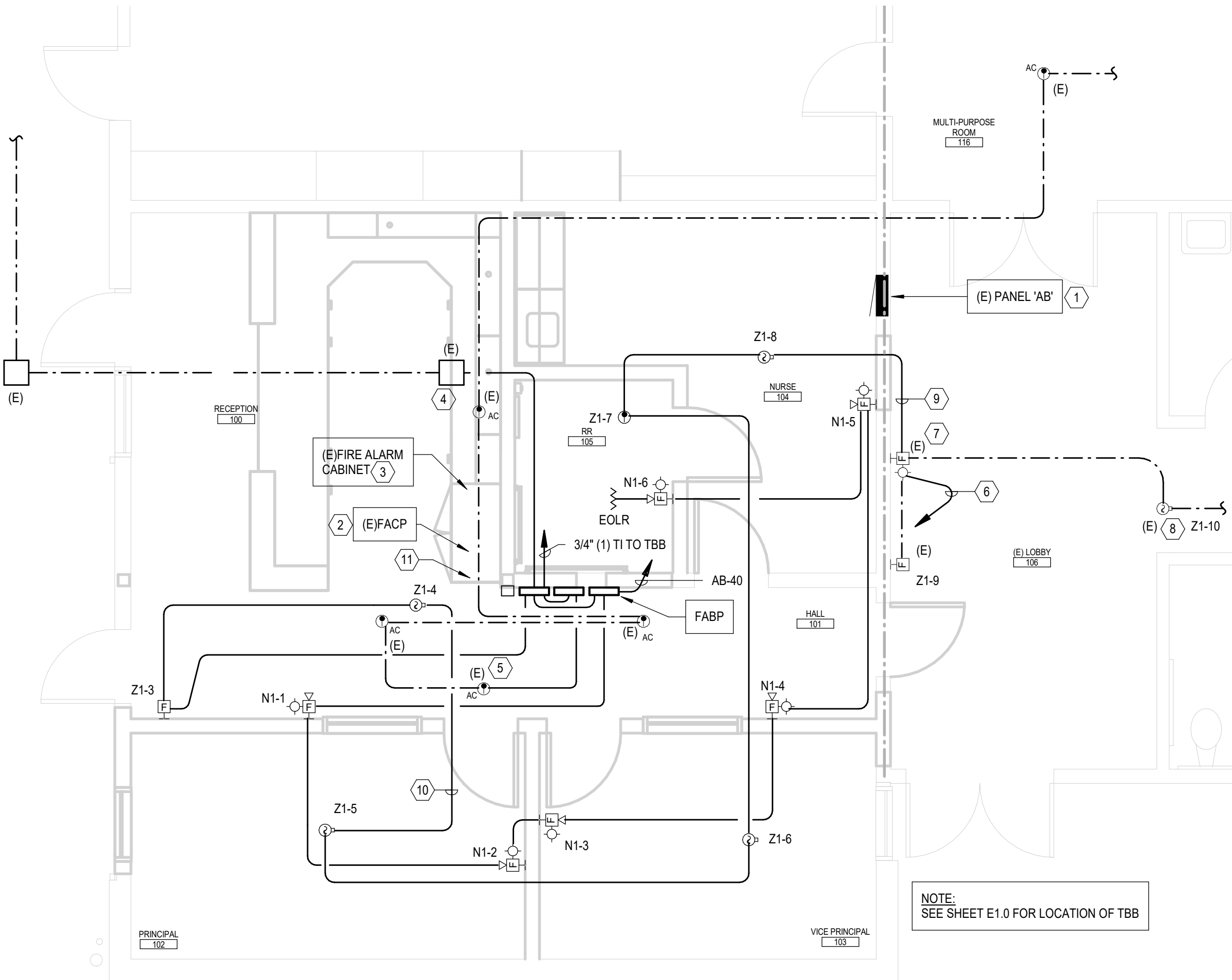
- 1 (E) CLOCK / SPEAKER UNIT RELOCATED. RECONNECT TO (E) SYSTEM AS REQUIRED.
- 2 (E) INTRUSION ALARM DEVICE RELOCATED. RECONNECT TO (E) SYSTEM AS REQUIRED.
- 3 (E) CCTV CAMERA RELOCATED. RECONNECT TO (E) SYSTEM AS REQUIRED.
- 4 SURFACE MOUNT DATA OUTLET FOR RECEPTION DESK BELOW THE WORKING SURFACE. COORDINATE EXACT MOUNTING HEIGHT WITH CASEWORK INSTALLER.

FIRE ALARM CONSTRUCTION KEYNOTES:

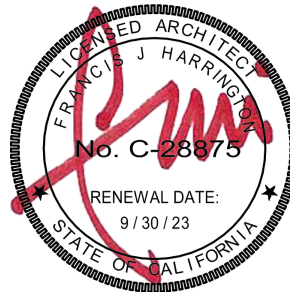
- 1 (E) PANEL 'AB'. PROVIDE 1-20/1 CIRCUIT BREAKER WITH HARDWARE. INSTALL IN (E) SPACE. PAINT "RED" AND PROVIDE LOCK-ON DEVICE.
- 2 (E) FIRE ALARM PANEL SILENT KNIGHT 5820XL RELOCATED. RECONNECT ALL CIRCUITS AS REQUIRED WITH ALL NECESSARY HARDWARE AND WIRING. SEE 4/E5.0.
- 3 (E) FIRE ALARM CABINET WITH ADDRESSABLE MODULES. RECONNECT ALL MODULES AS REQUIRED WITH ALL NECESSARY HARDWARE AND WIRING.
- 4 (E) FIRE ALARM PULL BOX. EXTEND CONDUIT WITH INITIATION AND NOTIFICATION WIRING TO FACP. RECONNECT AS REQUIRED.
- 5 (E) ATTIC HEAT DETECTOR. EXTEND 3/4" - 2#14 "THWN" WIRES TO FIRE ALARM CABINET. RECONNECT AS REQUIRED.
- 6 3/4" - #14 "THWN" WIRES FROM (E) FIRE ALARM HORN/STROBE TO FACP. RECONNECT AS REQUIRED.
- 7 RECONNECT (E) HORN/STROBE TO (E) NOTIFICATION CIRCUIT AS REQUIRED.
- 8 RECONNECT (E) FIRE ALARM SMOKE DETECTOR TO INITIATION CIRCUIT AS REQUIRED.
- 9 3/4" CONDUIT WITH INITIATION CIRCUIT WIRING.
- 10 TYPICAL - ALL FIRE ALARM CIRCUITS SHALL BE IN MINIMUM 3/4" CONDUITS, U.O.N. PROVIDE (1) F1 FOR EACH ADDRESSABLE LOOP, (1) F2 FOR EACH NOTIFICATION CIRCUIT. SEE FIRE ALARM RISER DIAGRAM.
- 11 PROVIDE RED DOCUMENT STORAGE BOX(DSB) SPACE AGE ELECTRONICS, ACE 12 SSU00625 NEXT TO THE FACP.

FIRE ALARM SYSTEM DESCRIPTION

THE SYSTEM IS POWER LIMITED, AUTOMATIC, MANUAL, LOCAL, AUXILIARY, REMOTE STATION (PROTECTED PREMISES), PROPRIETARY (PROTECTED PREMISES), WATERFLOW, AND SPRINKLER SUPERVISORY SERVICE. SUITABLE FOR RELEASING DEVICE SERVICE. REFER TO LISTEE'S DATA SHEET FOR DETAILED PRODUCT DESCRIPTION AND OPERATIONAL CONSIDERATIONS.



5875 PACIFIC STREET, SUITE E2
ROCKLIN, CA 95677 (916) 577-5789
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ARCHITECT



JGH - DY, NH, JH 221205.00
PM - DESIGN TEAM PROJECT NO.



DATE SIGNED:

ENGINEER



OWNER

ADMINISTRATION
OFFICE REMODEL

APRIL LANE
ELEMENTARY SCHOOL

800 April Lane,
Yuba City, CA 95991

REVISIONS

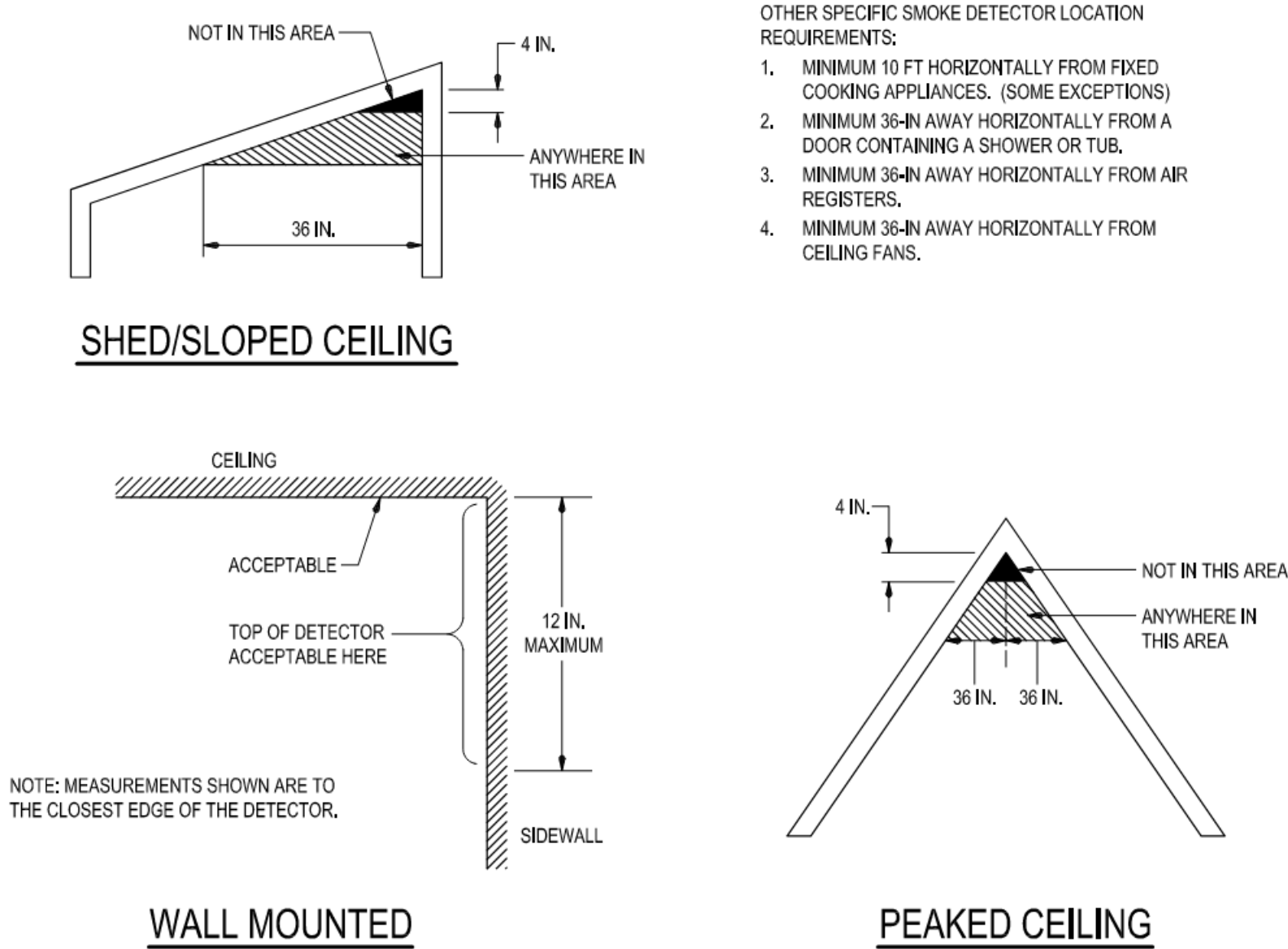
NO.	DESCRIPTION	DATE

DATE: December 30, 2022

SIGNAL AND FIRE
ALARM PLANS

E2.3

JOB NO. 2149.00



OTHER SPECIFIC SMOKE DETECTOR LOCATION REQUIREMENTS:

- MINIMUM 10 FT HORIZONTALLY FROM FIXED COOKING APPLIANCES. (SOME EXCEPTIONS)
- MINIMUM 36-IN AWAY HORIZONTALLY FROM A DOOR CONTAINING A SHOWER OR TUB.
- MINIMUM 36-IN AWAY HORIZONTALLY FROM AIR REGISTERS.
- MINIMUM 36-IN AWAY HORIZONTALLY FROM CEILING FANS.

LIGHTING FIXTURE SCHEDULE								
TAG	DESCRIPTION	MANUFACTURER	CATALOG #	LAMP	WATTS	VOLTS	MOUNTING	REMARKS
A	2X4 RECESSED TROFFER	LITHONIA	CPANL-2X4-AL06-SWW7 WITH DCMK 224	LED	36 W	120V	SURFACE	SEE DETAIL 3/E5.0
B	WALL LIGHT	LITHONIA	BLWP4-3000L-ADSM-MVOLT-GZ10-LP835	LED	25 W	120V	SURFACE WALL	MH: 6" ABOVE THE MIRROR. SEE DETAIL 3/E5.0
X	COMBINATION EXIT SIGN / E-LTG	LITHONIA	ECBR LED M6	LED	5 W	120V	CEILING	SEE DETAIL 3/E5.0

BATTERY CALCULATION WORKSHEET					
EQUIPMENT / DEVICE	QUANTITY	DEVICE STANDBY CURRENT (AMPS)	TOTAL STANDBY CURRENT (AMPS)	DEVICE ALARM CURRENT (AMPS)	TOTAL ALARM CURRENT (AMPS)
FIRE ALARM BOOSTER PANEL (FABP)	1	0.04	0.04	0.16	0.16
FIRE ALARM WALL MOUNTED HORN/STROBE (15cd)	6	0	0	0.066	0.396
FIRE ALARM SYNC MODULE	1	0.012	0.012	0.015	0.015
TOTALS:			0.052		0.571

NOTES:

BATTERY CALCULATIONS FOR 24 HOURS (STANDBY) PLUS 15 MINUTES (ALARM).

(TOTAL STANDBY CURRENT)(24HRS) + (TOTAL ALARM CURRENT)(15/60HR) X (125%) = MIN. BATTERY AMP HRS REQ'D.

(0.052) (24HRS) + (0.571) (15/60HR) X (125%) = 1.74 AMP HOUR (MINIMUM BATTERY)

MINIMUM BATTERY PROVIDED = 7.0Ahr

BATTERY CALCULATION WORKSHEET					
EQUIPMENT / DEVICE	QUANTITY	DEVICE STANDBY CURRENT (AMPS)	TOTAL STANDBY CURRENT (AMPS)	DEVICE ALARM CURRENT (AMPS)	TOTAL ALARM CURRENT (AMPS)
(E) FIRE ALARM CONTROL PANEL (FACP)	1	0.371	0.371	3.491	3.491
ADDRESSABLE SMOKE DETECTOR - NEW	4	0.00055	0.0022	0.00055	0.0022
ADDRESSABLE HEAT DETECTOR (135F) R-O-R NEW	1	0.00055	0.00055	0.00055	0.00055
ADDRESSABLE SMOKE DETECTOR - DELETED	4	0.00055	0.0022	0.00055	0.0022
ADDRESSABLE HEAT DETECTOR (135F) R-O-R DELETED	3	0.00055	0.00165	0.00055	0.00165
FIRE ALARM MONITOR MODULE	1	0.00055	0.00055	0.023	0.023
FIRE ALARM CONTROL RELAY MODULE	1	0.00055	0.00055	0.023	0.023
ADDRESSABLE PULL STATION	1	0.00055	0.00055	0.00055	0.00055
TOTALS:			0.372		3.536

NOTES:

BATTERY CALCULATIONS FOR 24 HOURS (STANDBY) PLUS 15 MINUTES (ALARM).

(TOTAL STANDBY CURRENT)(24HRS) + (TOTAL ALARM CURRENT)(15/60HR) X (125%) = MIN. BATTERY AMP HRS REQ'D.

(0.372) (24HRS) + (3.536) (15/60HR) X (125%) = 12.25 AMP HOUR (MINIMUM BATTERY)

EXISTING BATTERY = 20.0 Ahr

PANELBOARD: AB													
LOCATION: NURSE 104						VOLTAGE: 208Y/120 V. 3 ø 4 W.							
MOUNTING: RECESSED NEMA1						A.I.C. RATING: 10,000 AMPS SYMMETRICAL							
MAIN DEVICE: 125 A MLO						SPECIAL:							
BUS AMPS: 225 AMPS													
LOAD DESCRIPTION	BKR	P	CKT	A		B		C		CKT	P	BKR	LOAD DESCRIPTION
EXISTING LOAD	20 A	1	1	0.5	0.7					2	1	20 A	EXISTING LOAD
EXISTING LOAD	20 A	1	3			0.3	0.7			4	1	20 A	EXISTING LOAD
EXISTING LOAD	20 A	1	5					0.5	0.5	6	1	20 A	EXISTING LOAD
LIGHTING / RESTROOM EF	20 A	1	7	0.5	0.7					8	1	20 A	EXISTING LOAD
EXISTING LOAD	20 A	1	9			0.8	0.8			10	1	20 A	EXISTING LOAD
EXISTING LOAD	20 A	1	11					0.0	0.0	12	1	20 A	EXISTING LOAD
EXISTING LOAD	20 A	1	13	0.0	0.0					14	1	20 A	EXISTING LOAD
EXISTING LOAD	20 A	1	15			0.0	0.0			16	1	20 A	EXISTING LOAD
RCPT - OFFICES	20 A	1	17					0.7	0.0	18	1	20 A	EXISTING LOAD
RCPT - HALLWAY / RR - EF	20 A	1	19	0.9	0.0					20	1	20 A	EXISTING LOAD
EXISTING LOAD	20 A	1	21			0.0	0.0			22	1	20 A	EXISTING LOAD
EXISTING LOAD	20 A	1	23					0.0	0.0	24	1	20 A	EXISTING LOAD
EXISTING LOAD	20 A	1	25	0.0	0.0					26	1	20 A	EXISTING LOAD
EXISTING LOAD	20 A	1	27			0.0	0.0			28	1	20 A	EXISTING LOAD
EXISTING LOAD	20 A	1	29					0.0	0.0	30	1	20 A	EXISTING LOAD
EXISTING LOAD	20 A	1	31	0.0	0.0					32	1	20 A	EXISTING LOAD
RCPT - NURSE	20 A	1	33			0.5	0.0			34	1	20 A	EXISTING LOAD
RCPT - RECEPTION	20 A	1	35					0.7	0.0	36	1	20 A	EXISTING LOAD
EXISTING LOAD	20 A	1	37	0.0	0.0					38	1	20 A	EXISTING LOAD
EXISTING LOAD	20 A	1	39			0.0	0.5			40	1	20 A	FABP
EXISTING LOAD	20 A	1	41					0.0	0.0	42	1	20 A	EXISTING LOAD
TOTAL LOAD:				3 KVA	4 KVA	2 KVA							
TOTAL AMPS:				29 A	32 A	20 A							
LOAD CLASSIFICATION	CONNECTED	DEMAND		ESTIMATED		PANEL TOTALS							
LITES	539 VA	125.00%		674 VA		CONNECTED LOAD: 9459 VA							
RCPT	2880 VA	100.00%		2880 VA		ESTIMATED DEMAND: 9594 VA							
						CONNECTED CURRENT: 26 A							
						EST. DEMAND CURRENT: 27 A							
NOTES:													
* PROVIDE RED PAINTED CIRCUIT BREAKER WITH LOCK-ON CLIP													

SIGNAL WIRE SCHEDULE						
DESIG	DESCRIPTION	USE	SYSTEM	O.D. (INCHES)	AREA (SQ. INCHES)	REMARKS
T1	4 PAIR #24, CAT6e, CM	BUILDING	TELEPHONE	-	-	WHITE
C1	3#12 THWN"	BUILDING	CLOCK	-	-	
D1	4 PAIR #24, CAT6e, CM	BUILDING	DATA	-	-	DATA - BLUE VOIP - WHITE
D2	4 PAIR #24, CAT6A, CM	BUILDING	CCTV / WAP	-	-	CCTV / WAP - BLUE
S1	2#18 STP	BUILDING	SPEAKER	-	-	
IN	CABLING PER MANUFACTURER'S RECOMMENDATION	BUILDING / SITE	INTRUSION	-	-	

FIRE ALARM WIRE SCHEDULE					
DESIG	DESCRIPTION	USE	SYSTEM	O.D. (INCHES)	AREA (SQ. INCHES)
F1	1 PR #16, FPL, NON PLENUM, UNSHIELDED, SOL. BLACK/RED	BLDG., INITIATION	FIRE ALARM	-	-
F2	1 PR. #12 AWG, THWN F.A. CKT	BLDG., SIGNAL	FIRE ALARM	-	-

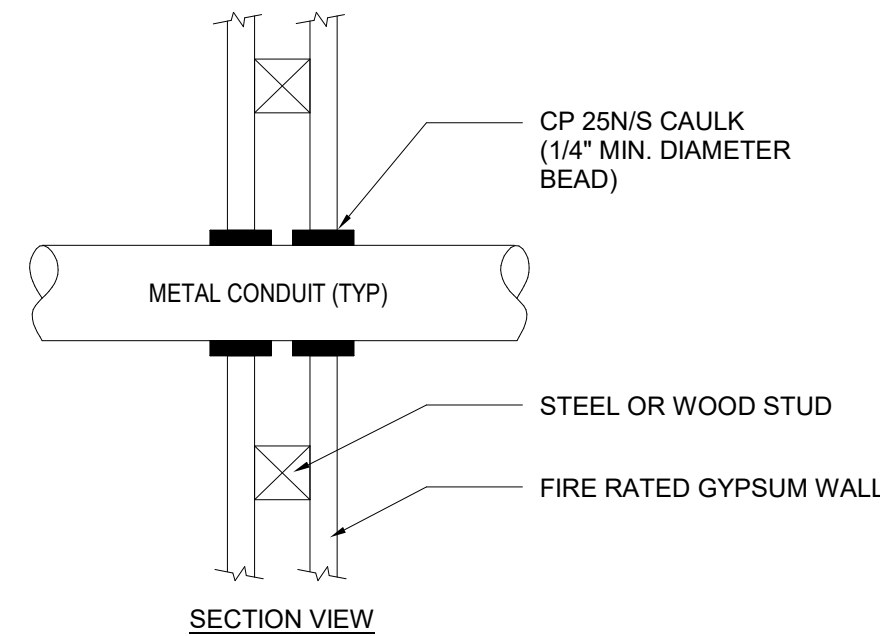
VOLTAGE DROP CALCULATIONS						
FABP						
SIG CKT #	N1					
DEVICE	1	2	3	4	5	6
WIRE GAUGE	12	12	12	12	12	12
OHMS / 1000FT	1.93	1.93	1.93	1.93	1.93	1.93
DISTANCE	24	20	2	22	20	16
AMPS @ DEVICE	0.066	0.066	0.066	0.066	0.066	0.066
AMPS DEVELOPED	0.396	0.33	0.264	0.198	0.132	0.066
DEVICE VOLT DROP	0.037	0.025	0.002	0.016	0.01	0.004
CKT VOLT DROP	20.4	20.3	20.3	20.3	20.3	20.3

SIGNAL CIRCUIT # =
AMPS DEVELOPED =
TOTAL CIRCUIT VOLTAGE DROP =
CIRCUIT VOLTAGE (24V X 80%) =
ESTIMATED VOLTAGE AT LAST DEVICE ON CKT =
% VOLTAGE DROP =

N1
0.396
0.945
20.4
20.3
0.5%

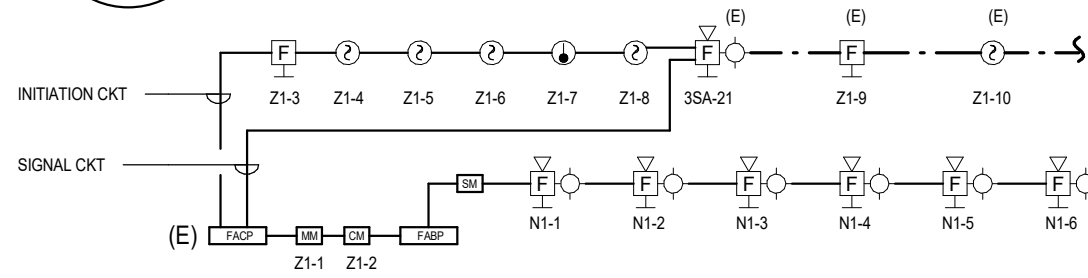
NOTES:

- CAULK AROUND CONDUIT PENETRATING FIRE RATED WALLS AND CEILINGS. USE 3M BRAND FIRE BARRIER CAULK "CP25" (THICKNESS AS REQUIRED FOR 1, 2 AND/OR 3 HOUR FIRE RATING).
- USE CP 25/S SELF-LEVELING CAULK ON HORIZONTAL SURFACES WHEN FILLING GAPS FROM ABOVE THE PENETRATION. USE CP-25N/S NO-SAG CAULK ON VERTICAL AND HORIZONTAL SURFACES WHEN FILLING FROM FLOOR OR IN WALL APPLICATION.
- ALL FIRE STOP INSTALLATION SHALL COMPLY WITH U.L., A.S.T.M. AND MANUFACTURERS STANDARD DETAILS.



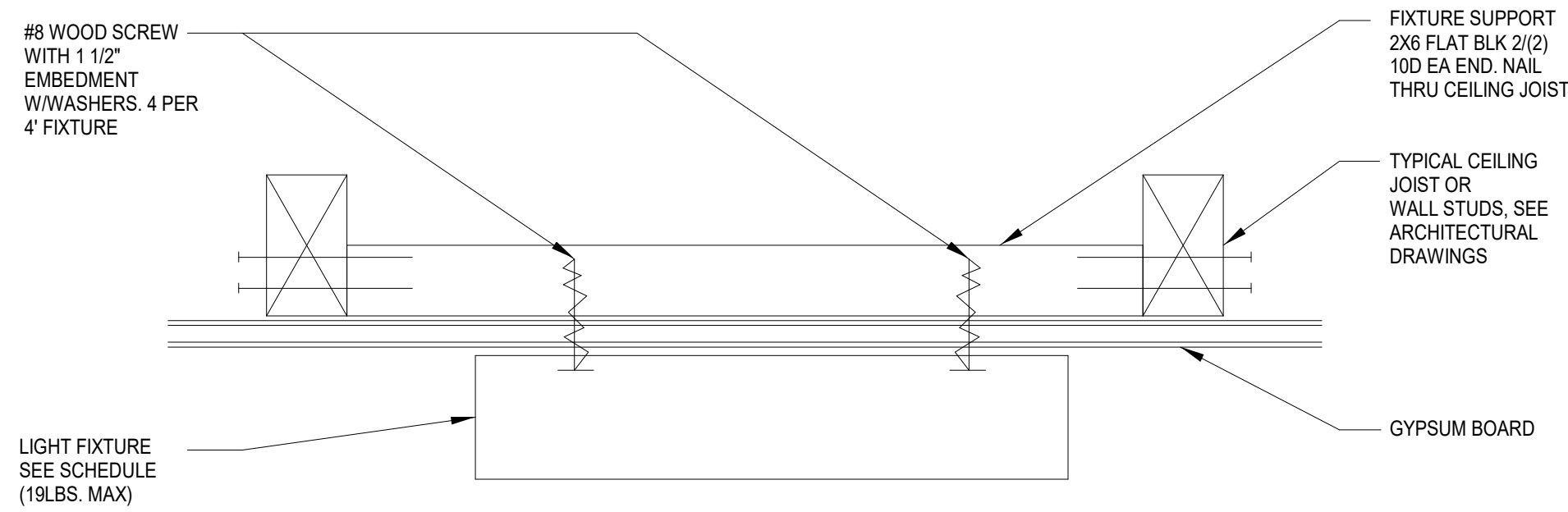
1 SMOKE DETECTOR LOCATION REQ'S

E5.0 SCALE: NONE



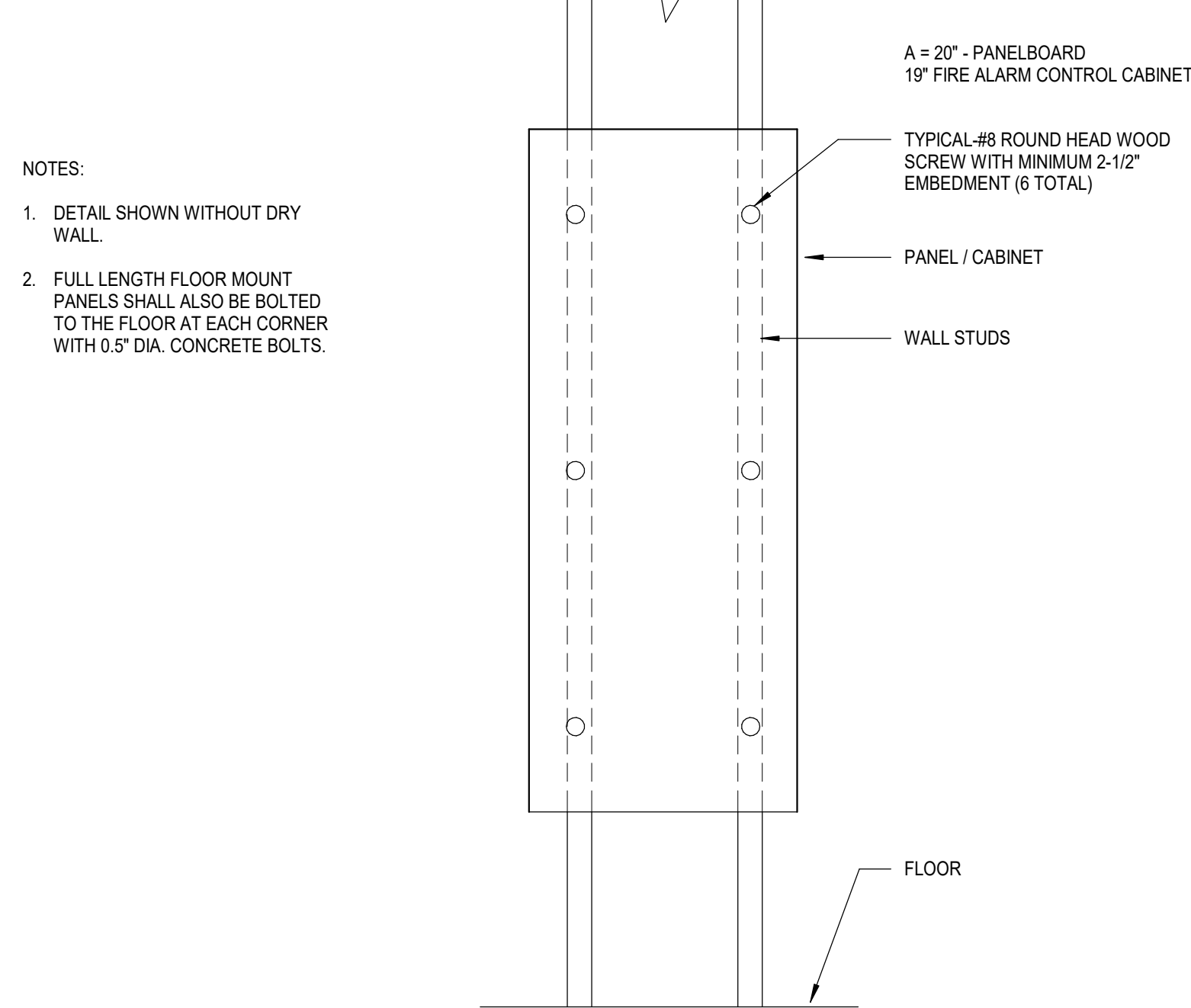
2 FIRE ALARM RISER DIAGRAM

E5.0 SCALE: NONE



3 SURFACE MOUNTED LIGHTING FIXTURE MOUNTING DETAIL

E5.0 SCALE: NONE



NOTES:

- DETAIL SHOWN WITHOUT DRY WALL.
- FULL LENGTH FLOOR MOUNT PANELS SHALL ALSO BE BOLTED TO THE FLOOR AT EACH CORNER WITH 0.5" DIA. CONCRETE BOLTS.

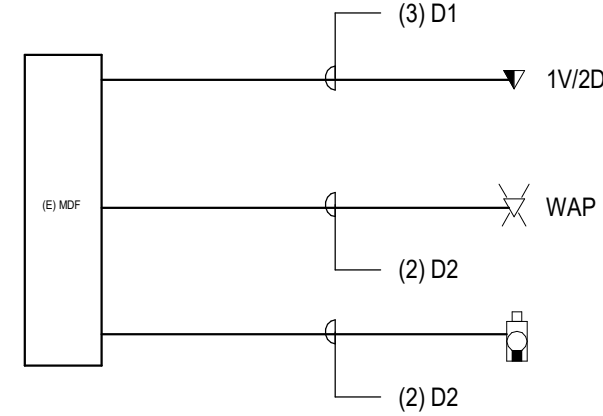
5 INTRUSION ALARM WIRING DIAGRAM

E5.0 SCALE: 12" = 1'-0"



6 INTERCOM/CLOCK WIRING DIAGRAM

E5.0 SCALE: 12" = 1'-0"

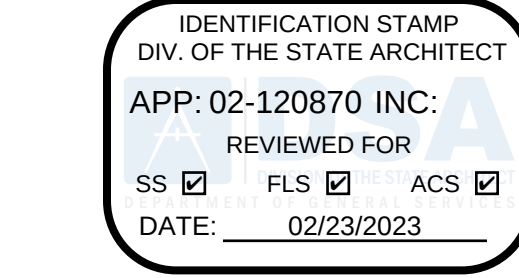


7 DATA/VOIP/WAP/CCTV WIRING DIAGRAM

E5.0 SCALE: 12" = 1'-0"

8 CONDUIT THROUGH RATED WALL PENETRATION DETAIL

E5.0 SCALE: NONE



HARRINGTON
DESIGN
ASSOCIATES

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ARCHITECT



JGH - DY, NH, JH 221205.00
PM - DESIGN TEAM PROJECT NO.



DATE SIGNED:

ENGINEER



OWNER

ADMINISTRATION
OFFICE REMODEL

APRIL LANE
ELEMENTARY SCHOOL

800 April Lane,
Yuba City, CA 95991

REVISIONS

NO.	DESCRIPTION	DATE

DATE: December 30, 2022

ELECTRICAL
SCHEDULES,
CALCULATIONS,
AND DETAILS

E5.0