

REVISIONS

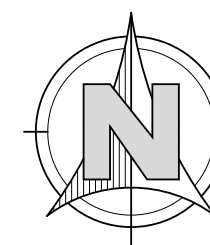
DC | ARCHITECTS

INTERIOR RENOVATION @ ENB CENTER

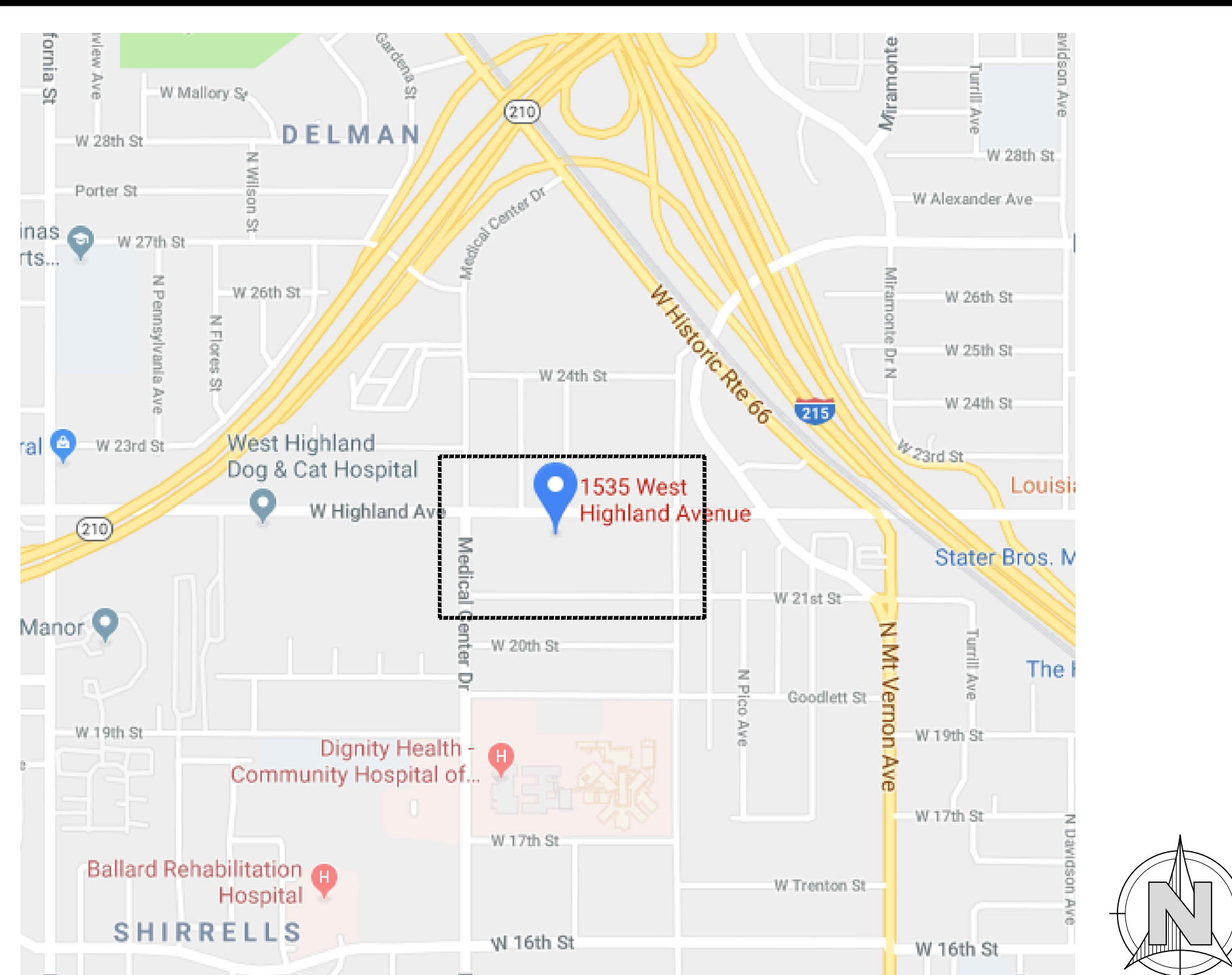
GENERAL NOTES & OVERALL SITE PLAN

JOG NUMBER:

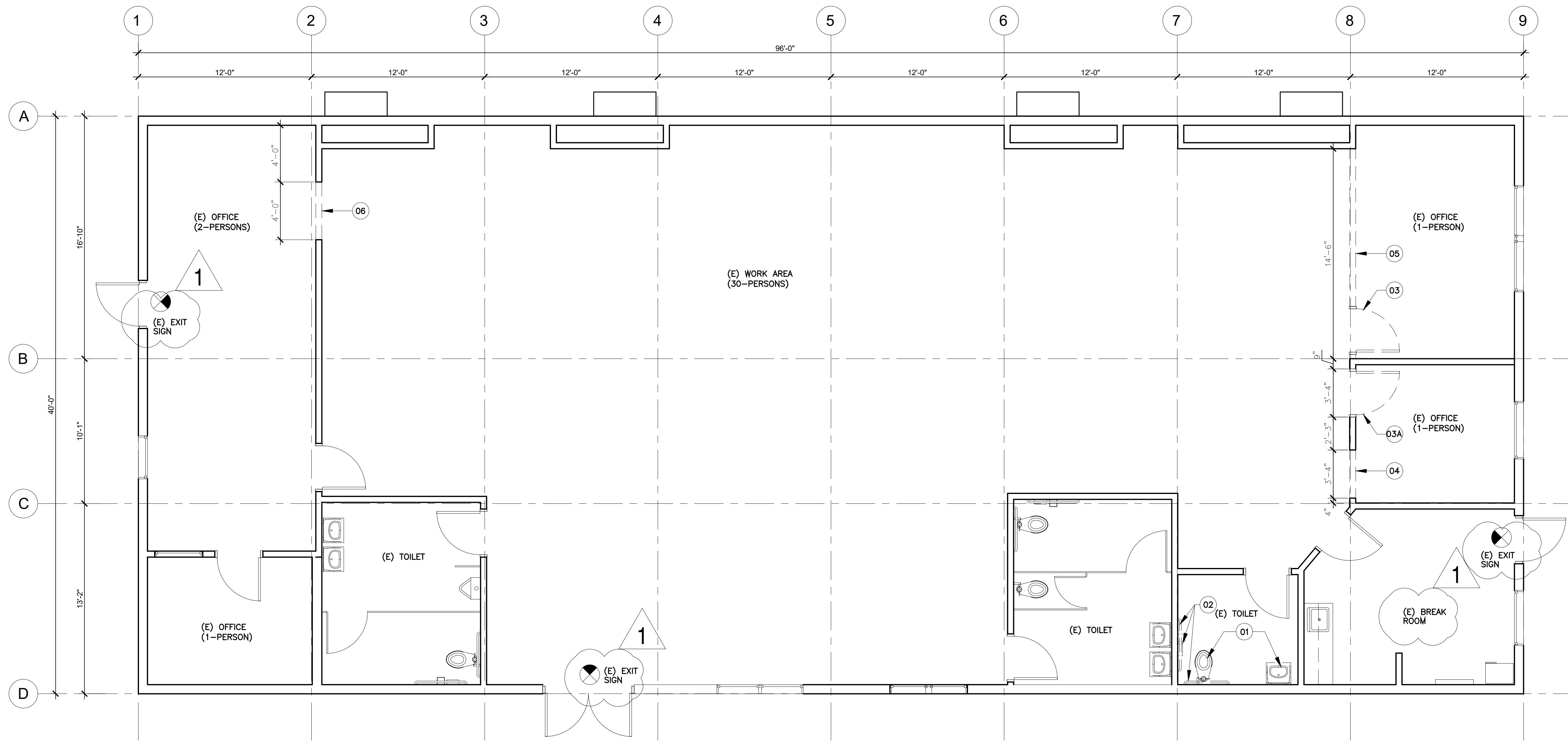
A-1.0



NFPA 17	Dry Chemical Extinguishing Systems	2016 Edition
NFPA 17A	Wet Chemical Extinguishing Systems	2016 Edition
NFPA 20	Stationary Pumps	2016 Edition
NFPA 24	Private Fire Service Mains (California Amended)	2016 Edition
NFPA 72	National Fire Alarm Code (California Amended)	2016 Edition
NFPA 80	Fire Door and Other Opening Protectives	2016 Edition
NFPA 2001	Clean Agent Fire Extinguishing Systems	2015 Edition



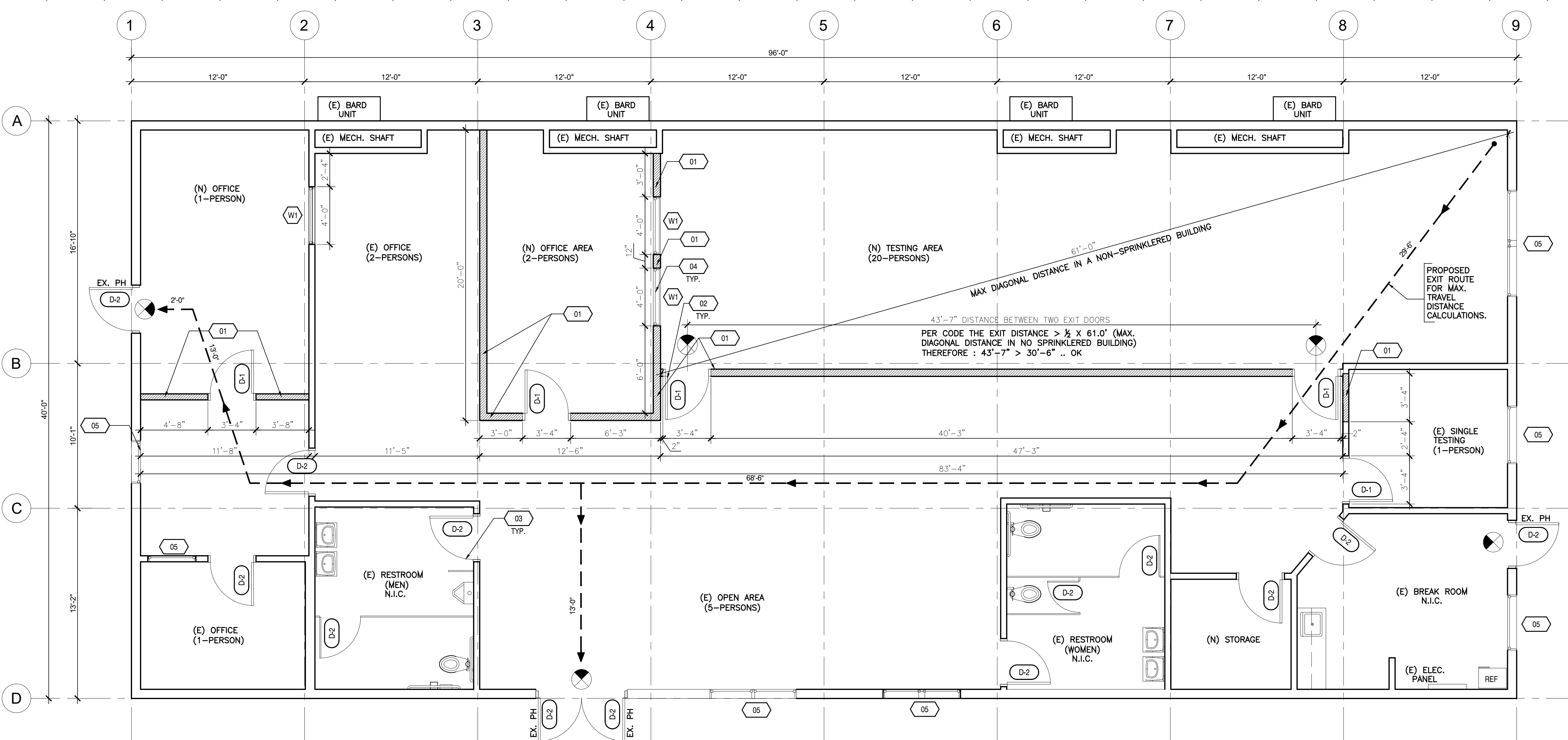
1. CONTRACTOR AND ALL SUBCONTRACTORS SHALL BE RESPONSIBLE FOR BEING FAMILIAR WITH AND ENSURING THAT ALL WORKMANSHIP AND/OR MATERIALS MEET C.B.C. STANDARDS OF THE LATEST 2016 EDITION, AS WELL AS, CODES, ACCESSIBILITY ORDINANCES, AND STANDARDS OF THE DIVISION OF THE STATE ARCHITECT OR OTHER GOVERNING AGENCIES.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING & OBTAINING BUILDING PERMITS AS REQUIRED BY THE LOCAL BUILDING AND SAFETY DEPARTMENT.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR FILING NECESSARY APPLICATIONS FOR PERMITS AFFECTING THE TRADES REQUIRED BY THE RESPONSIBLE JURISDICTION AGENCY. EACH SUBCONTRACTOR SHALL PROVIDE ANY ADDITIONAL DRAWINGS, SKETCHES, SCHEDULES, CALCULATIONS, ETC. AS REQUIRED BY SUCH AGENCIES.
4. ALL DIMENSIONS SHALL BE VERIFIED ON THE JOB SITE BY EACH SUBCONTRACTOR AND/OR SUPPLIER WHICH AFFECTS THE WORK. EACH SUBCONTRACTOR SHALL BE RESPONSIBLE FOR BEING FAMILIAR AND COMPLYING WITH FOR CORRECT INSTALLATION AND USE OF ALL MATERIALS. ALL MATERIALS SHALL BE NEW AND OF FIRST QUALITY. NO USED MATERIALS MATERIALS OR SECONDS WILL BE PERMITTED UNLESS RE-USE OF EXISTING FIXTURES/ MATERIAL ARE NOTED ON THE DRAWINGS.
5. NO CHANGES OR VARIATIONS FROM THESE PLANS MAY BE MADE EXCEPT UPON WRITTEN APPROVAL BY THE ARCHITECT OR OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE BUILDING DURING CONSTRUCTION AND SHALL PROVIDE ADEQUATE SHORING, DURING CONSTRUCTION. SAFETY AND BRACING REQUIREMENTS SHALL BE IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL SAFETY ORDINANCES.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND SHALL CHECK ALL DIMENSIONS. ALL DISCREPANCIES SHALL BE CALLED TO ATTENTION OF THE ARCHITECT AND BE RESOLVED BEFORE PROCEEDING WITH THE WORK.
7. ALL INFORMATION SHOWN ON THE DRAWINGS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE BUT WITHOUT GUARANTEE OF ACCURACY. WHERE ACTUAL CONDITIONS CONFLICT WITH THE DRAWINGS, THEY SHALL BE REPORTED TO THE ARCHITECT SO THAT THE PROPER REVISIONS CAN BE MADE. MODIFICATIONS OF DETAILS OF CONSTRUCTION SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE ARCHITECT OR OWNER.
8. THESE PLANS ARE THE EXCLUSIVE PROPERTY OF THE ARCHITECT. ANY REPRODUCTION OR USE WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE ARCHITECT IS PROHIBITED. THE ARCHITECT ASSUMES NO LIABILITY FOR THE UNAUTHORIZED USE OF THESE PLANS.
9. ALL WORK SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATIONS 2016 CBC.
10. SUBSTITUTIONS SHALL BE CONSIDERED CONSTRUCTION CHANGE DOCUMENT AND SHALL BE APPROVED BY THE OWNER AND ARCHITECT PRIOR TO FABRICATION.
11. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT SHALL BE SUBMITTED TO, AND APPROVED BY, THE OWNER, BEFORE PROCEEDING WITH THE WORK.



DEMOLITION FLOOR PLAN

1/4" = 1'-0"

1



REMODEL FLOOR PLAN

1/4" = 1'-0"

2

DEMOLITION KEY NOTES

- 01 ALL EXISTING PLUMBING FIXTURES TO BE REMOVED AND THE PLUMBING PIPES TO BE CAPPED IN PLACE.
- 02 ALL EXISTING TOILET ACCESSORIES TO BE REMOVED FROM THE WALL AND TO BE RETURNED TO THE DISTRICT IN ORIGINAL CONDITION. PATCH AND REPAIR ANY DAMAGE IN WALL/ FLOOR UPON REMOVAL IF REQUIRED.
- 03 DEMO EXISTING DOOR WITH ALL DOOR HARDWARE & ACCESSORIES.
- 03A EXISTING DOOR TO BE REMOVED AND RELOCATED IN THE SAME ROOM AT THE NEW OPENING TAGGED 04; SEE NOTE BELOW.
- 04 DEMO SECTION OF EXISTING INTERIOR PARTITION WALL TO CREATE AN OPENING FOR THE NEW RELOCATED DOOR.
- 05 DEMO FULL EXISTING INTERIOR PARTITION WALL.
- 06 DEMO SECTION OF EXISTING INTERIOR PARTITION WALL TO CREATE AN OPENING FOR THE NEW FIXED GLASS.

FLOOR PLAN KEY NOTES

- 01 NEW INTERIOR PARTITION WALLS. SEE DETAILS 6 AND 7 / A-10.1 FOR MORE INFO.
- 02 NEW WOOD DOOR (D1). SEE A-7.1 FOR DOOR SCHEDULE AND DETAILS.
- 03 EXISTING DOOR (D2) TO REMAIN.
- 04 NEW WINDOW (W1). SEE A-7.1 FOR WINDOW SCHEDULE AND DETAILS.
- 05 EXISTING WINDOW

RESTROOM OCC. LOAD CALCS.

BUILDING FLOOR AREA = 3,840.0 SFT
OCCUPANCY GROUP = B
OCCUPANCY FACTOR FOR NUMBER OF PEOPLE FOR B OCCUPANCY = 100 GROSS
MAX. ALLOWED OCCUPANCY = 3840 / 100 = 38.4 ~ 39 PERSONS
PROVIDED OCCUPANCY = 30 PERSONS
EQUAL PROPORTION OF MALE/ FEMALE OCCUPANTS = 15 EACH
AS PER 2016 CALIFORNIA PLUMBING CODE
FOR MALE OCCUPANTS OF 15 PERSONS:
WC REQUIRED = 1 PER 25 FOR FIRST 50 PERSONS = 1 WC REQUIRED ~ 1-EXISTING
LAV REQUIRED = 1 PER 40 FOR FIRST 80 PERSONS = 1 LAV REQUIRED ~ 2-EXISTING
URINALS REQUIRED = 1 PER 1-75 PERSONS = 1 REQUIRED ~ 1-EXISTING
FOR FEMALE OCCUPANTS OF 15 PERSONS:
WC REQUIRED = 1 PER 25 FOR FIRST 50 PERSONS = 1 WC REQUIRED ~ 2-EXISTING
LAV REQUIRED = 1 PER 40 FOR FIRST 80 PERSONS = 1 LAV REQUIRED ~ 2-EXISTING
THEREFORE THE REMOVAL OF THIRD RESTROOM AND ITS CONVERSION INTO PROPOSED STORAGE ROOM DOES NOT AFFECT TOWARD THE OCCUPANCY LOAD REQUIREMENTS FOR MEN AND WOMEN FACILITIES.

EXIT DOORS CALCULATIONS

CURRENT OCCUPANT LOAD = 30 PERSONS
PER SECTION 1005.3.2 OF THE CBC THE LOAD FACTOR TO CALCULATE THE EXIT WIDTHS = 0.2
REQUIRED EXIT WIDTH FOR 30 OCCUPANTS = $0.2 \times 30 = 6"$
EXISTING EXIT WIDTH @ ENTRANCE DOORS = 72"
ALLOWABLE EXIT OCCUPANT LOAD FOR 72" WIDTH = 360 PERSONS > 30 PERSONS
EXISTING EXIT WIDTH @ SIDE EXIT DOORS = 36" EACH
ALLOWABLE EXIT OCCUPANT LOAD FOR 36" WIDTH = 180 PERSONS > 30 PERSONS
HENCE THE NUMBER OF EXISTING EXITS IS ENOUGH FOR THE CURRENT OCCUPANT LOAD OF 30 PERSONS.

EXIT TRAVEL DISTANCE

PER CBC SECTION 1017 FOR B OCCUPANCY IN A NON SPRINKLERED BUILDING THE MAX. EXIT TRAVEL DISTANCE SHOULD BE < 200'
PROPOSED EXIT EGRESS TRAVEL DISTANCE BETWEEN TWO MOST REMOTE EXIT POINTS AS SHOWN ON PLAN ARE :
 $29'-6" + 68'-6" + 13'-0" + 2'-0" = 113'-0" < 200'-0"$

FLOOR PLAN NOTES

- 1. ALL DIMENSIONS ARE TO FACE OF STUD TYPICAL UNLESS NOTED OTHERWISE

FLOOR PLAN LEGEND

- NEW INTERIOR WALLS:
2x4 W.D. STUDS @ 16" O.C. w/ ONE LAYER OF 5/8" TYPE 'X' GYP. BD. ON BOTH SIDES AND ACOUSTIC INSULATION, TYP. U.N.O. ALL NON BEARING WALLS TO TERMINATE 6" ABOVE CLG. AND BRACED TO ROOF PER DETAILS. TYP. U.N.O.
NEW WALL PAINT FINISH TO MATCH EXISTING FINISHED INTERIORS OF THE AREA
- ILLUMINATED EXIT SIGN
- EX. PH EXISTING PANIC HARDWARE



CITY Approval Stamp

REVISIONS
12/01/19 - BACK CHECK COMMENTS

DC | ARCHITECTS

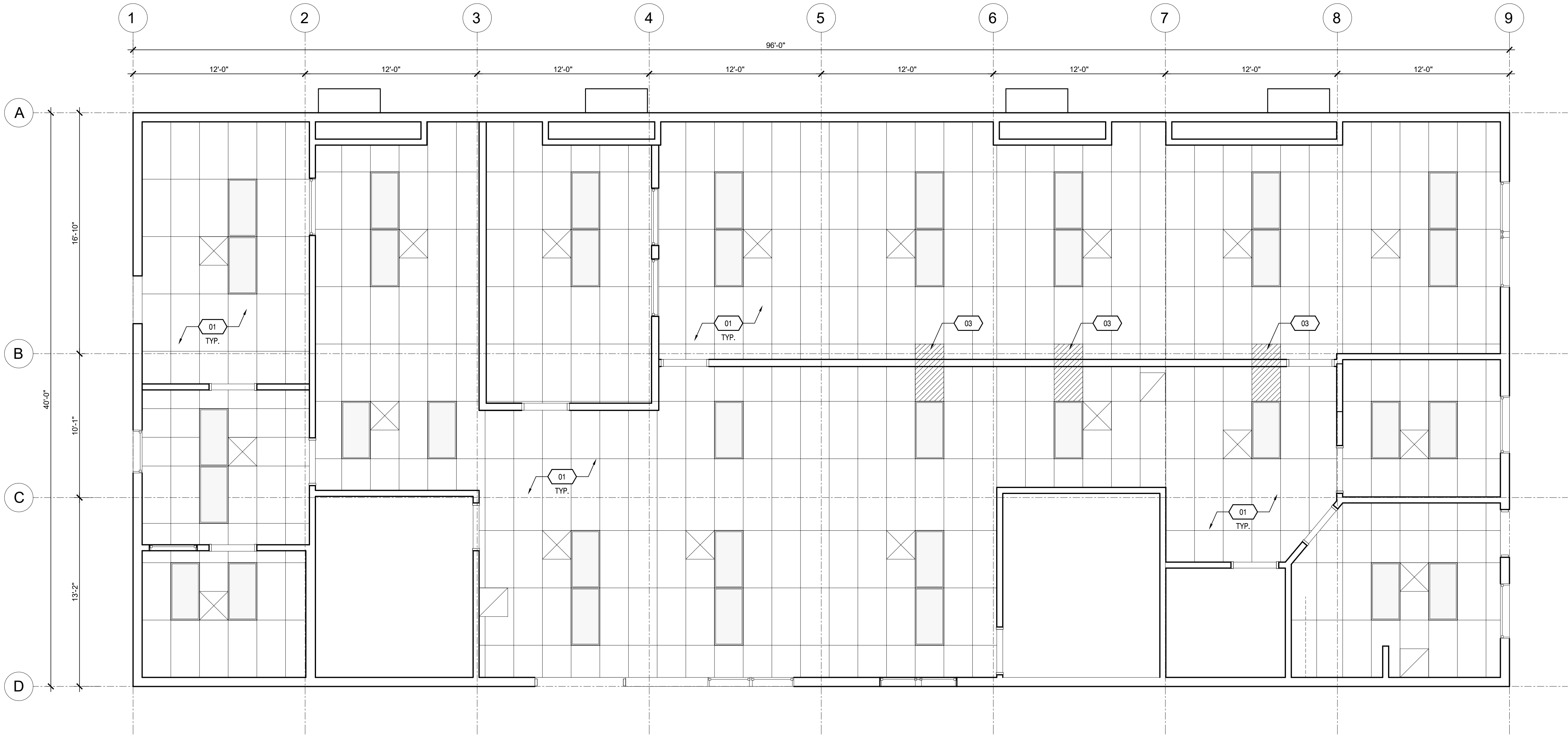


INTERIOR RENOVATION @ ENR: CENTER
WHAA BUILDING SITE
1535 W. HIGHLAND AVE
SAN BERNARDINO, CA 92411
SAN BERNARDINO CITY U.S.D.

WHAA BUILDING
FLOOR PLANS

2019-001
PS
DATE: 05-13-2019
SCALE:

A-2.0



RCP PLAN

1/4" = 1'-0"

1

RCP KEY NOTES

- 01 EXISTING CEILING TO REMAIN. EXISTING CEILING HEIGHT TO REMAIN. GC TO REPLACE DAMAGED CEILING PANELS W/ SAME DURING CONSTRUCTION. GC TO MAKE NECESSARY ADJUSTMENTS TO CEILING PANELS ABOVE NEW INTERIOR PARTITIONS. REFER TO CEILING DETAILS ON SHEET A-10.1 FOR ADDITIONAL INFORMATION.
- 02 MECHANICAL DUCTS AND REGISTERS SEE MECH'L PLANS.
- 03 EXISTING CEILING LIGHTS TO BE REMOVED. FOR ALL OTHER LIGHTING/ ELECTRICAL INFORMATION SEE ELECTRICAL PLANS.



RCP LEGEND

- EXISTING SUSPENDED FLUORESCENT LIGHT REMAIN
- EXISTING FLUORESCENT LIGHT REMOVED
- 2'-0" x 4'-0" SUSPENDED LAY-IN CEILING SYSTEM
BURNING CHARACTERISTICS = 25 OR LESS
SMOKE = 450 OR LESS. SEE SHEET A-10.1

CITY Approval Stamp

REVISIONS

DC | ARCHITECTS

INTERIOR RENOVATION @ ENR: CENTER
WHAA BUILDING SITE
1535 W. HIGHLAND AVE
SAN BERNARDINO, CA 92411
SAN BERNARDINO CITY U.S.D.

REFLECTED CEILING
PLAN

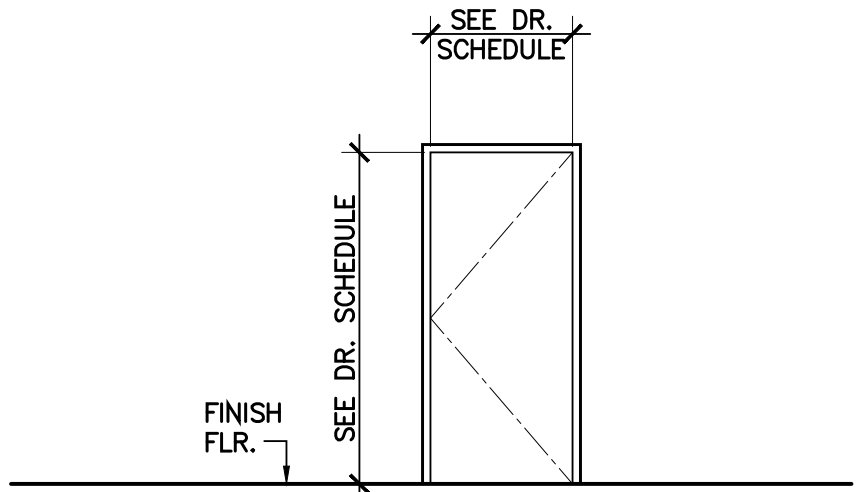
JOB NUMBER: 2019-001
DRAWN BY: PS
DATE: 05-13-2019
SCALE:

A-4.0

DOOR SCHEDULE

OPENING NUMBER	DOORS					FRAME		DETAILS			LABEL (MINUTES)	GLASS TYPE	HARDWARE	REMARKS
	TYPE	WIDTH	HEIGHT	THICKNESS	MATERIAL	FINISH	MATERIAL	FINISH	DET	JAMB	THRESHOLD OR SILL			
D1		3'-0"	7'-0"	-	-	PTD	-	PTD	2	1	---	---	-	SEE DOOR HARDWARE NOTES
D2		3'-0"	7'-0"	-	-	PTD	-	PTD	---	---	---	---	-	EXISTING TO REMAIN

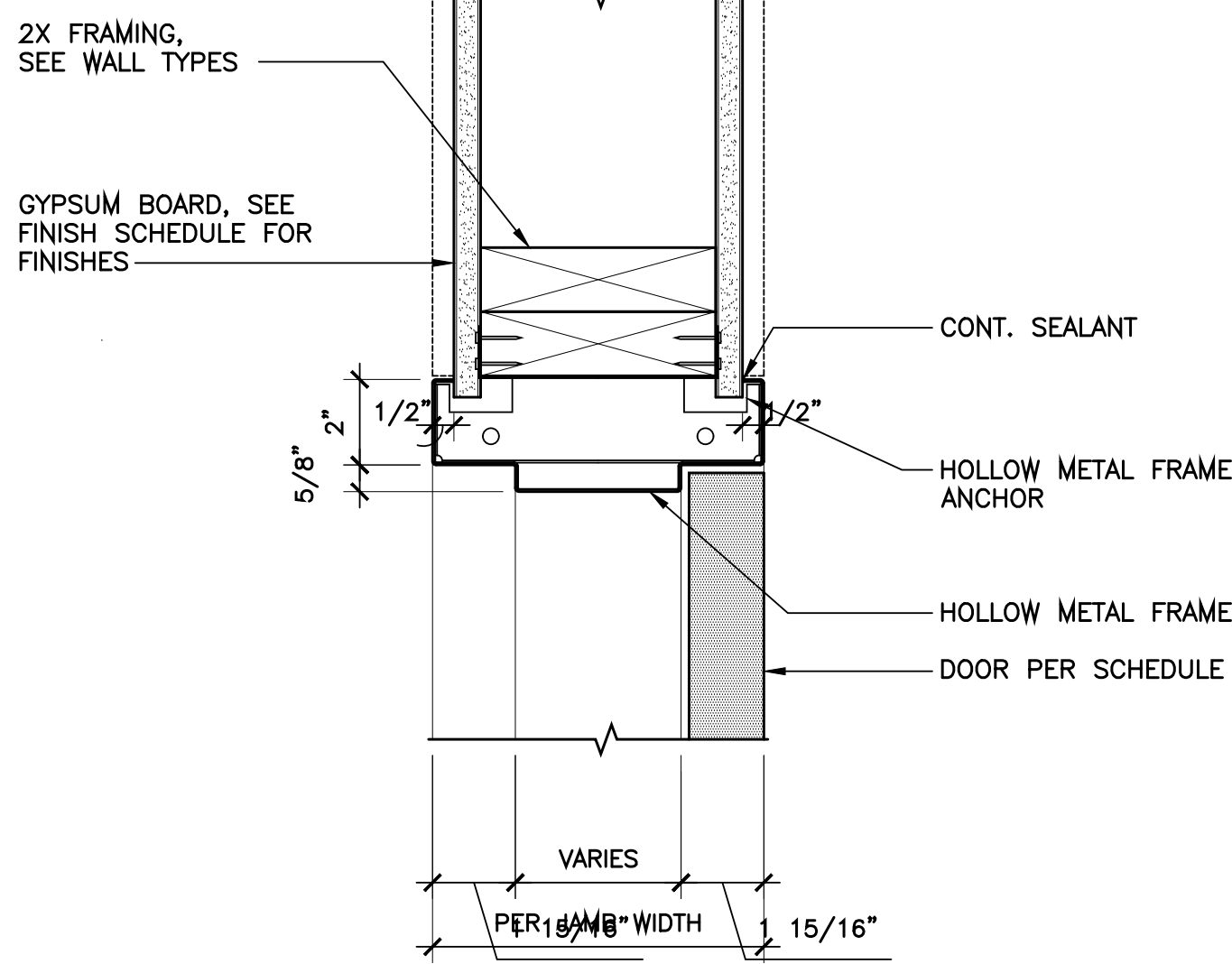
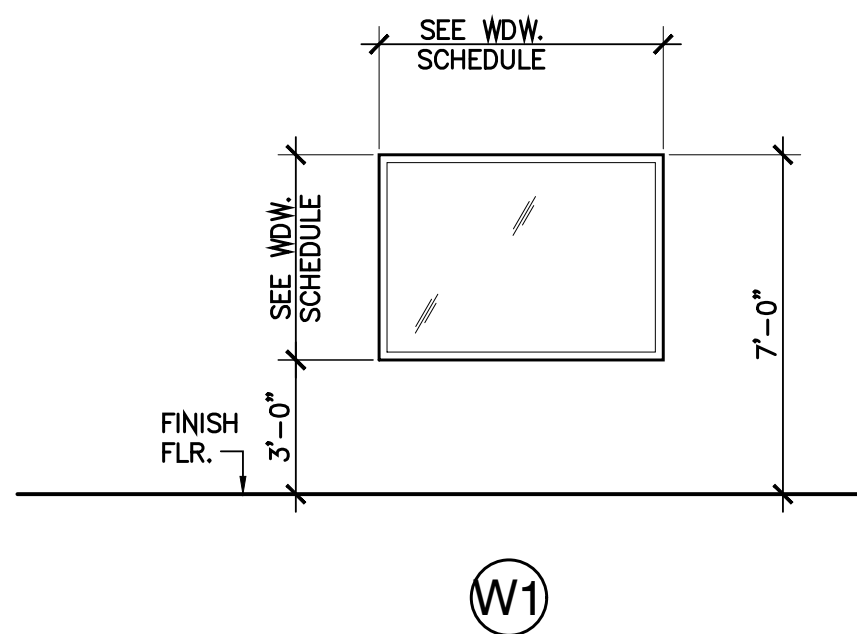
DOOR TYPE



WINDOW SCHEDULE

OPENING NUMBER	WINDOW		FRAME		DETAILS				GLASS TYPE	LABEL (MINUTES)	AREA (S.F.)	EXPOSURE
	WIDTH	HEIGHT	MATERIAL	FINISH	TYPE	DET	JAMB	SILL				
W1	6'-0"	4'-0"	HM	PTD	1	3	4	4	B		24.0	

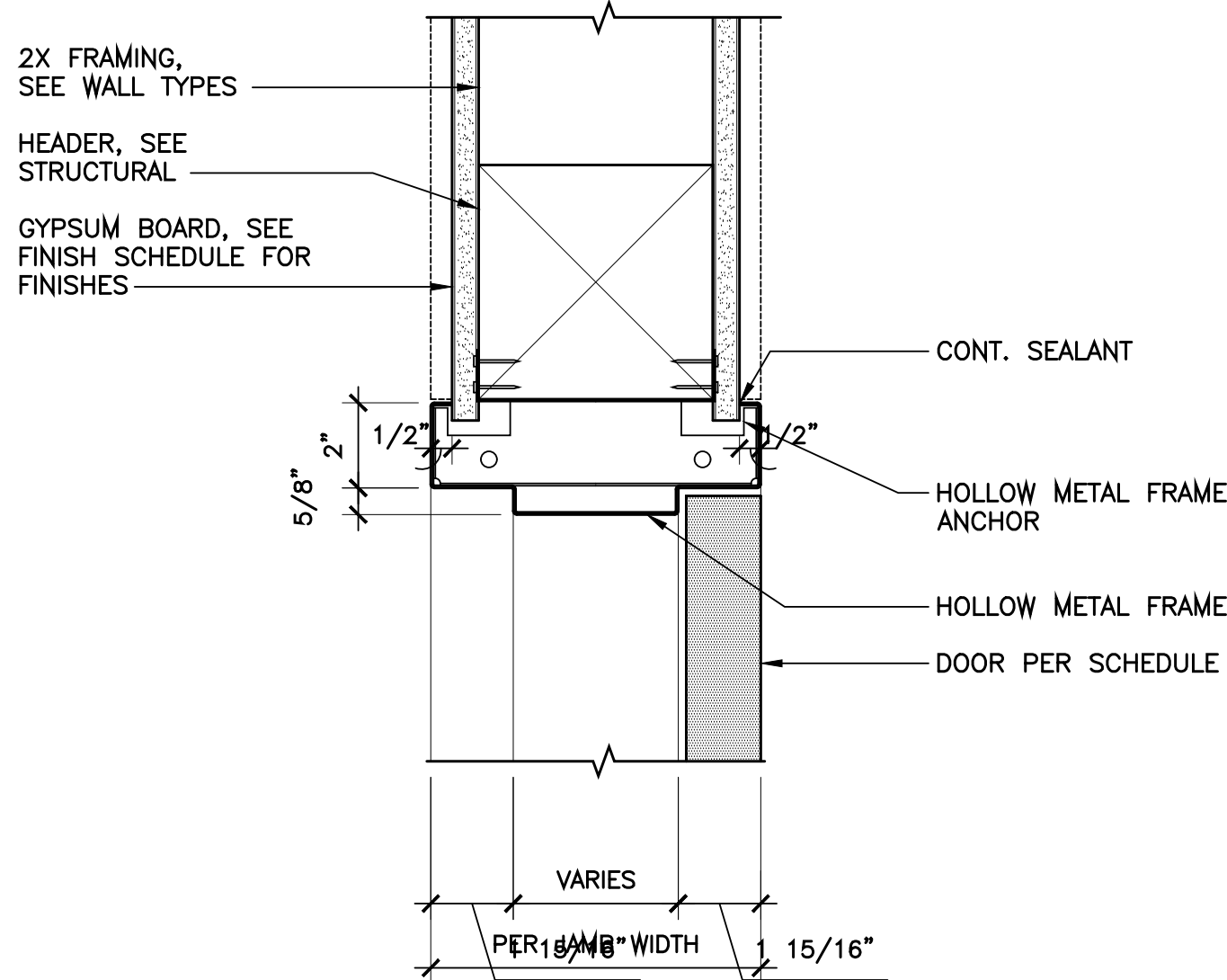
WINDOW TYPES



HOLLOW METAL DOOR JAMB

3" = 1'-0"

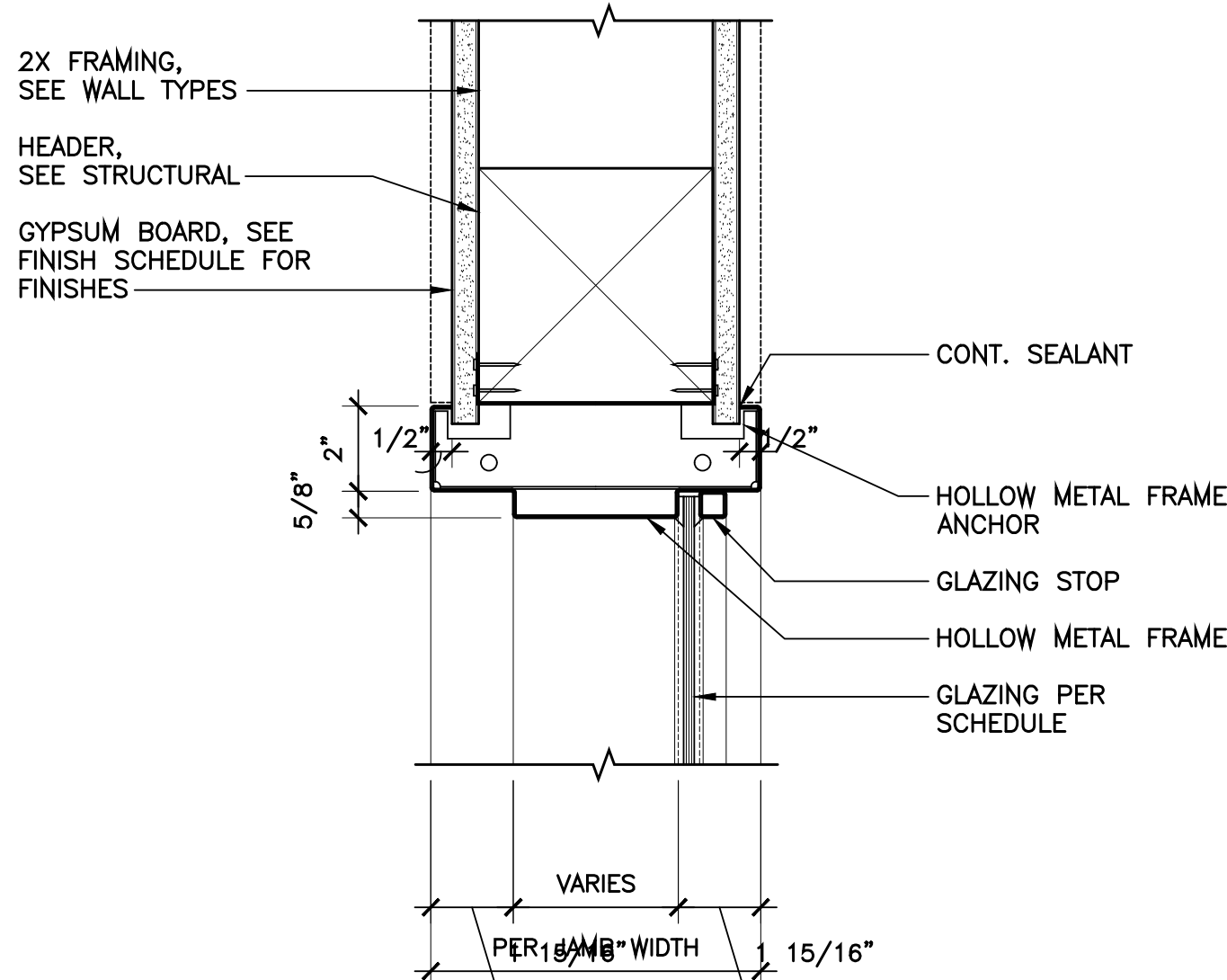
1



HOLLOW METAL DOOR HEAD

3" = 1'-0"

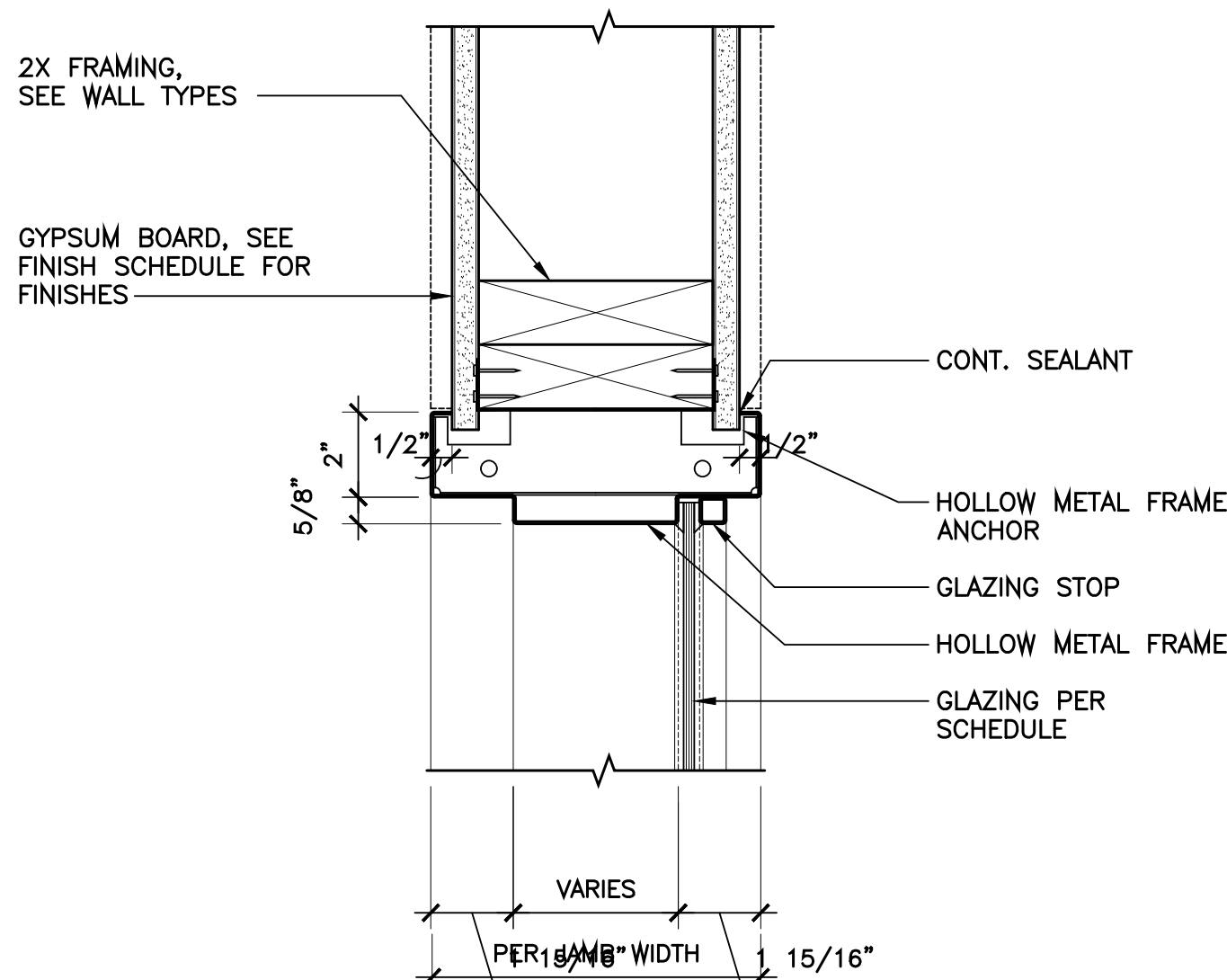
2



HOLLOW METAL WINDOW HEAD

3" = 1'-0"

3



HOLLOW METAL WINDOW JAMB/SILL

3" = 1'-0"

4

ROOM FINISH NOTES

1. PROVIDE 5/8" TYPE 'X' GYPSUM BOARD TYPICAL THROUGHOUT, UNLESS OTHERWISE NOTED.
2. BRUSH-OUTS / DRAW-DOWNS REQUIRED FOR ALL PAINTS AND COLORS. FORWARD SAMPLES TO THE ARCHITECT FOR APPROVAL, PRIOR TO INSTALLATION.
3. UNLESS OTHERWISE NOTED, ALL DAMP AREAS SHALL BE FINISHED W/ 5/8" WATER RESISTANT GYPSUM BOARD (WALLS ONLY).
4. ALL FINISHES AND COLORS ARE SUBJECT TO THE ARCHITECT'S AND OWNER'S FINAL APPROVAL.
5. FINISH MATERIALS TO HAVE MAX. FLAME SPREAD=200 AND MAX. SMOKE DENSITY=450.

DOOR & WINDOW NOTES

1. SEE DOORS & WINDOWS DETAIL SHEET FOR TYPICAL FRAME DETAILS AND ADDITIONAL NOTES AND REQUIREMENTS.
2. SEE THIS SHEET FOR GLASS TYPES.
3. SEE SPECIFICATIONS FOR HARDWARE AND THRESHOLDS.
4. RATED DOORS AND FRAMES ARE REQUIRED TO BE OF THE SAME RATING.
5. THE FLOOR OR LANDING ON EACH SIDE OF DOORS IS NOT MORE THAN 1/2-IN. LOWER THAN THE THRESHOLD OF THE DOORWAY. RAISED THRESHOLDS AND FLOOR LEVEL CHANGES GREATER THAN 1/4-IN. AT DOORWAYS SHALL BE BEVELED WITH A SLOPE NOT GREATER THAN ONE UNIT VERTICAL IN TWO UNITS HORIZONTAL (50% SLOPE). (1008.1.7)

DOOR HARDWARE NOTES

- DOOR HARDWARE:
1. EGRESS DOORS OR GATES SHALL BE OPERABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY, SPECIAL KNOWLEDGE, OR EFFORT. DOOR HANDLES, PULLS, LATCHES, LOOKS, AND OTHER OPERATING DEVICES SHALL BE INSTALLED 34 TO 48 IN. ABOVE THE FINISHED FLOOR. MANUALLY OPERATED FLUSH BOLTS OR SURFACE BOLTS ARE NOT PERMITTED. THE UNLATCHING OF ANY DOOR OR LEAF SHALL NOT REQUIRE MORE THAN ONE OPERATION. (1008.1.9)
 2. MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 POUNDS FOR EXTERIOR DOORS AND 5 POUNDS FOR INTERIOR DOORS. SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT CENTER PLANE OF SLIDING DOORS. COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS. WHEN FIRE DOORS ARE REQUIRED, MAXIMUM EFFORT TO OPERATE DOOR MAY BE INCREASED SO AS NOT EXCEED 15 POUNDS.
 3. PANIC AND FIRE EXIT HARDWARE, WHERE INSTALLED ON DOORS IN THIS BUILDING, SATISFY THE FOLLOWING: (1008.1.10)
 - A. THE ACTUATING PORTION OF THE RELEASING DEVICE SHALL EXTEND AT LEAST ONE-HALF OF THE DOOR LEAF WIDTH.
 - B. THE MAXIMUM UNLATCHING FORCE DOES NOT EXCEED 15-POUNDS.
 - C. PIVOTED OR BALANCED DOORS SHALL BE OF THE PUSH-PAD TYPE WHERE PANIC HARDWARE IS REQUIRED, AND THE PAD SHALL NOT EXTEND ACROSS MORE THAN ONE-HALF OF THE DOOR WIDTH, MEASURED FROM THE LATCH SIDE.
 4. WHERE KEY-OPERATED LOCKING DEVICES ARE USED, POST A SIGN ON OR ADJACENT TO THE REQUIRED MAIN EXIT DOOR WITH 1-IN. LETTERING STATING: "THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED." (1008.1 .9.3)

- FIRE RATED DOORS:
1. FOR FIRE RATED DOORS CBC 713.3
 - A. IDENTIFY DOORS AND FRAMES WITH AN APPROVED LABEL IMPACTING RATING.
 2. SHOW HARDWARE REQUIREMENT IN 713.6
 - A. CLOSING DEVICE
 - B. HINGES
 - C. LATCH
- ACCESSIBLE DOORS NOTES:
1. ALL HAND ACTIVATED DOOR OPENING HARDWARE SHALL MEET THE FOLLOWING REQUIREMENTS:
 - 1.1. BOTTOM SHALL BE LOCATED BETWEEN 34" AND 48" ABOVE FINISH FLOOR PER CBC1010.1.9.2
 - 1.2. LATCHING AND LOCKING DEVICES THAT ARE IN THE PATH OF TRAVEL SHALL BE OPERATED WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE, PANIC BARS, PUSH-PULL ACTIVATING BARS OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT THE ABILITY TO GRASP THE OPENING HARDWARE.
 - 1.3. LOCKED DOORS SHALL EXIT IN THE DIRECTION OF TRAVEL.
 2. THE LOWER 10" OF ALL DOORS SHALL BE SMOOTH AND UNINTERRUPTED TO ALLOW THE DOOR TO BE OPENED WITH A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION. NARROW FRAME DOORS MAY USE A 10" HIGH SMOOTH PANEL ON THE PUSH SIDE OF THE DOOR.

GLASS TYPE AND NOTES

- GLASS TYPE:
- A SINGLE: 1/4" TEMPERED GLASS
- B LAMINATED DUAL GLAZE: 1" LAMINATED INSULATED GLASS - (EXTERIOR SIDE: 1/4" LAMINATED GLASS (2 LAYERS OF 1/8" GLASS, TINT FILM), 1/2" AIR GAP, INTERIOR SIDE: 1/4" TEMPERED GLASS)
U-FACTOR (CENTER OF GLASS) = .27; U-FACTOR (WITH FRAMING) = 0.436
SHGC (CENTER OF GLASS) = .28; SHGC (WITH FRAMING) = 0.321
- NOTES:
1. ALL GLAZING SHALL COMPLY W/ CBC CHAPTER 24 TABLES 24B, 24C AND 24D, AND SHALL PASS TEST REQUIREMENTS FOR ANSI Z97.1 1975
 2. EACH LIGHT SHALL BEAR A PERMANENT MANUFACTURER LABEL WITH TYPE AND THICKNESS, CBC SECTION 2404.
 3. ALL SAFETY GLAZING SHALL BE LABELED SHOWING LABELER AND STATE THAT SAFETY GLAZING MATERIAL HAS BEEN UTILIZED IN SUCH INSTALLATION. THE LABEL SHALL BE LEGIBLE AND VISIBLE FROM INSIDE.
 4. THE LABEL SHALL BE ETCHED OR CERAMIC FIRED, CBCSECTION 2406.2
 5. GLASS TO COMPLY WITH TABLE 24-B:
 - A. EDGE CLEARANCE
 - B. GLAZING RABBIT AND RETAINER
 - C. FRAME LAP
 6. GLAZED OPENING IN DOORS SHALL BE LABELED PER CBC SECTION 713.9 AND AREA PER CBC SECTION 713.7
 - A. GLASS MEETS REQUIREMENTS OF ANSI SECTION 79
 - B. GLASS COMPLIES WITH CBC SECTION 2403

ABBREVIATIONS

ACT = ACOUSTIC CEILING TILES	PH = PANIC HARDWARE
AN = ANODIZED	PLA = PLASTER
CMU = CONCRETE MASONRY UNIT	PLWD= PLYWOOD
CONC= CONCRETE	PR = PAIR (DOUBLE SWNG)
CPT = CARPET	PTD = PAINTED
CT = CERAMIC TILE	PT = PORCELAIN TILE
(E) = EXISTING	RB = RUBBER BASE
FF = FACTORY FINISH	RT = RUBBER TILE
FLA = FLUID APPLIED FLOORING	SC = SOLID CORE - WOOD
GB = GYPSUM BOARD	SL = SEALER/CLEAR
GL = GLASS	STV = STAINED AND VARNISHED
HC = HOLLOW CORE - WOOD	TWP = TACKABLE WALL PANEL
HM = HOLLOW METAL	T = TEMPERED GLASS
IG = INSULATED GLASS	VCT = VINYL COMPOSITION TILE
MFR = MANUFACTURER	WRGR = WATER RESISTANT GYPSUM BOARD
MTL = HOLLOW CORE - METAL	



CITY Approval Stamp

REVISIONS
12/10/19 - BACK CHECK COMMENTS

DC | ARCHITECTS

INTERIOR RENOVATION @ ENR CENTER
WHAA BUILDING SITE
1535 W. HIGHLAND AVE
SAN BERNARDINO, CA 92411
SAN BERNARDINO CITY U.S.D.

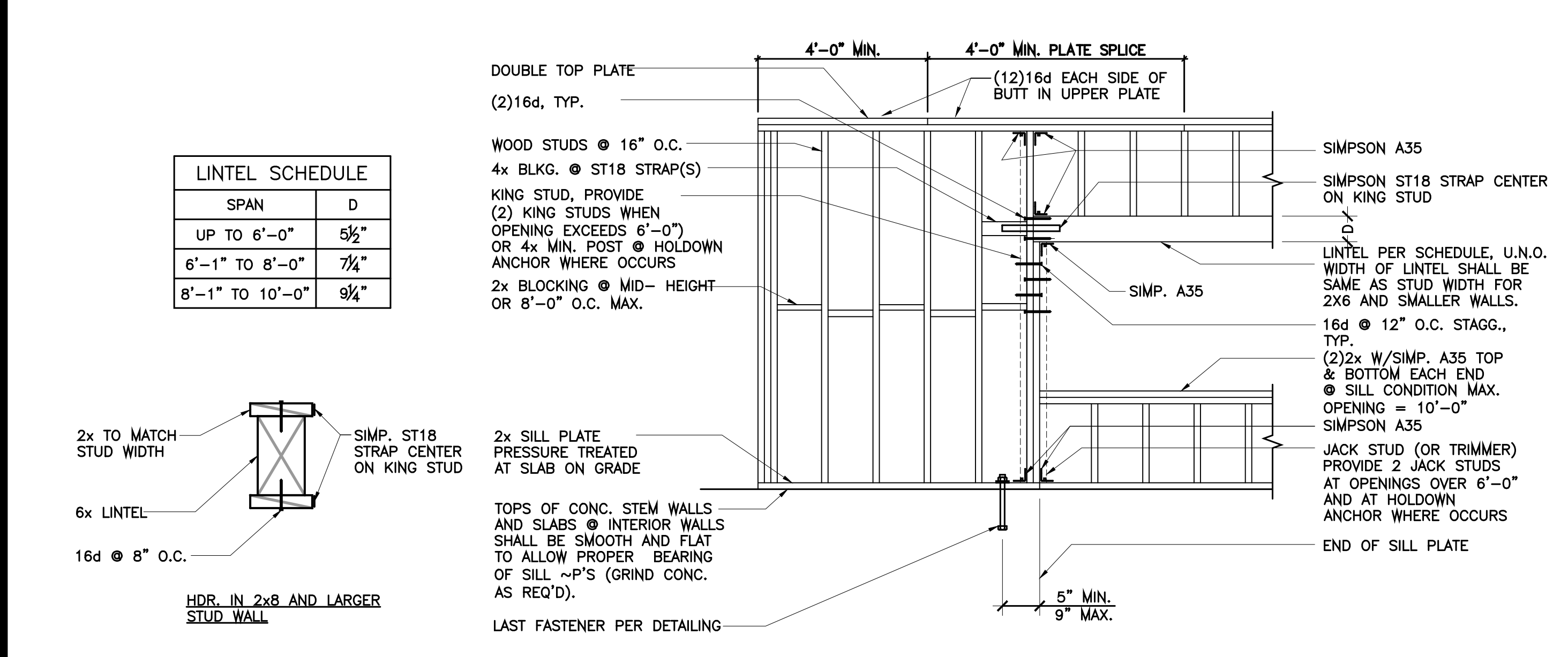
820 N. MOUNTAIN AVENUE
SUITE 200
UPLAND, CA 91786

(951) 985-6596 OFFICE
(951) 985-0864 FAX

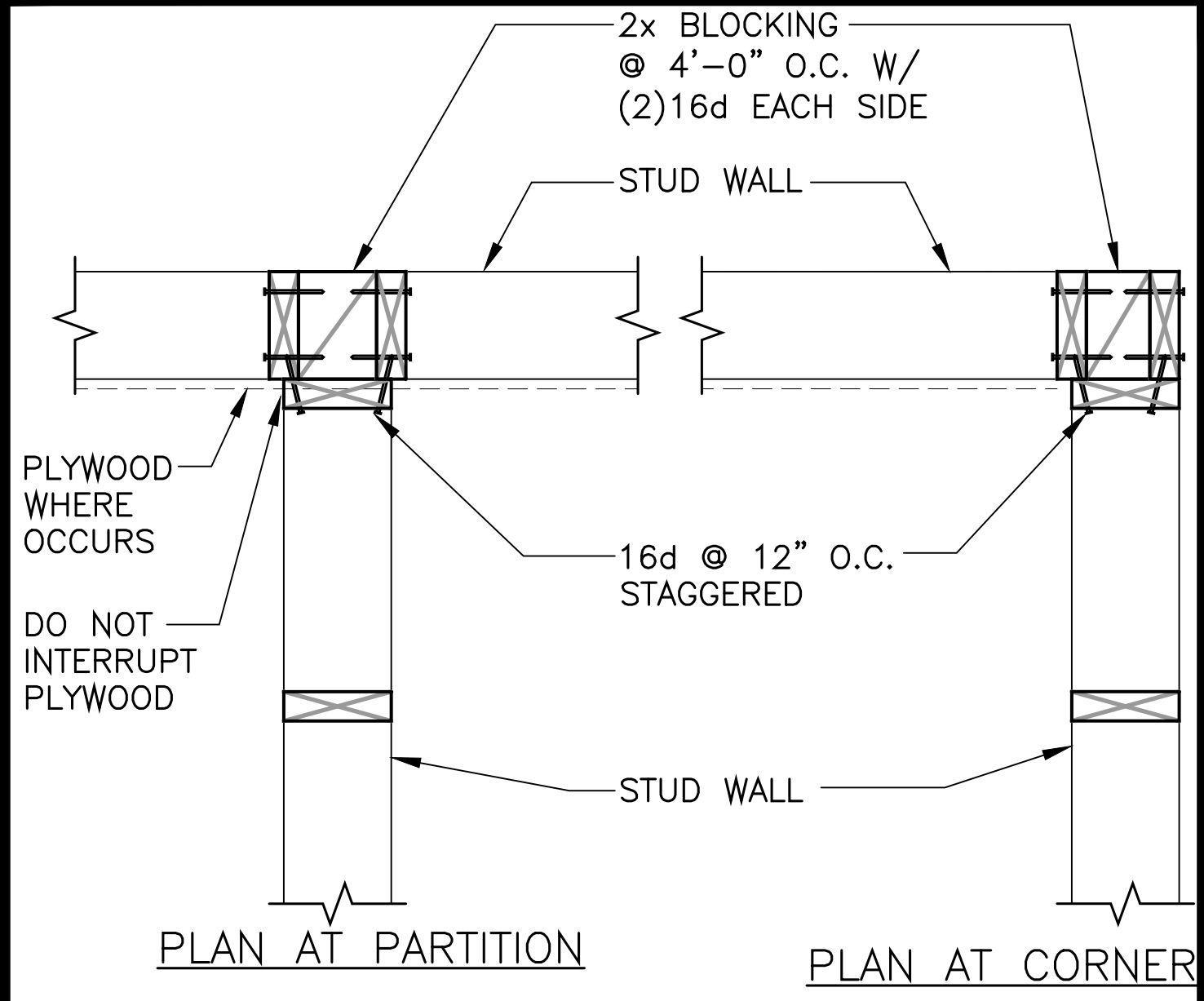
DOOR AND WINDOW SCHEDULES & TYP. DETAILS

DOOR AND WINDOW SCHEDULES & TYP. DETAILS

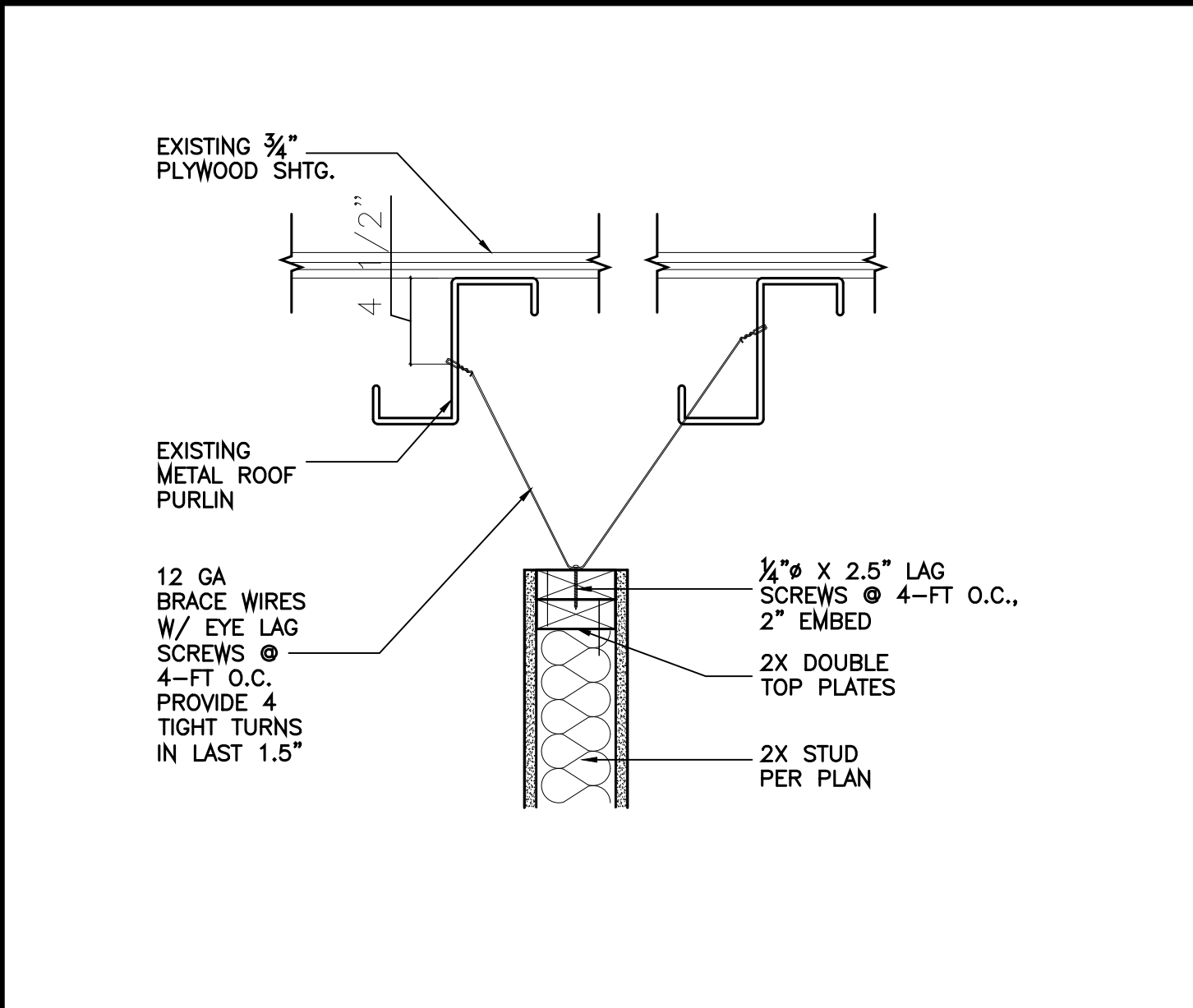
DATE: 05.15.2019
SCALE: AS SHOWN
A-7.1



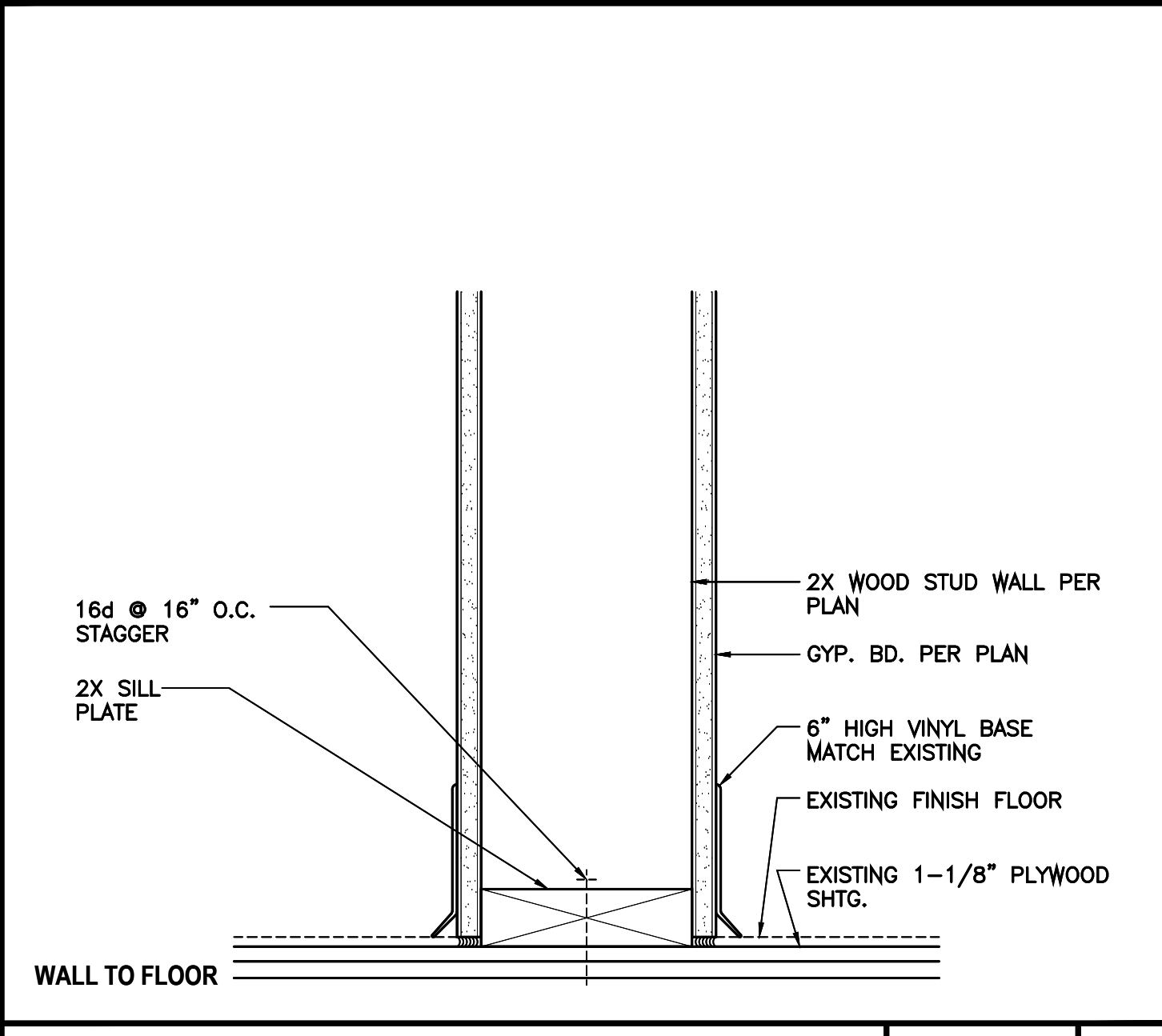
WOOD_STUD_FRAMING_WALL 1"=1'-0" 10



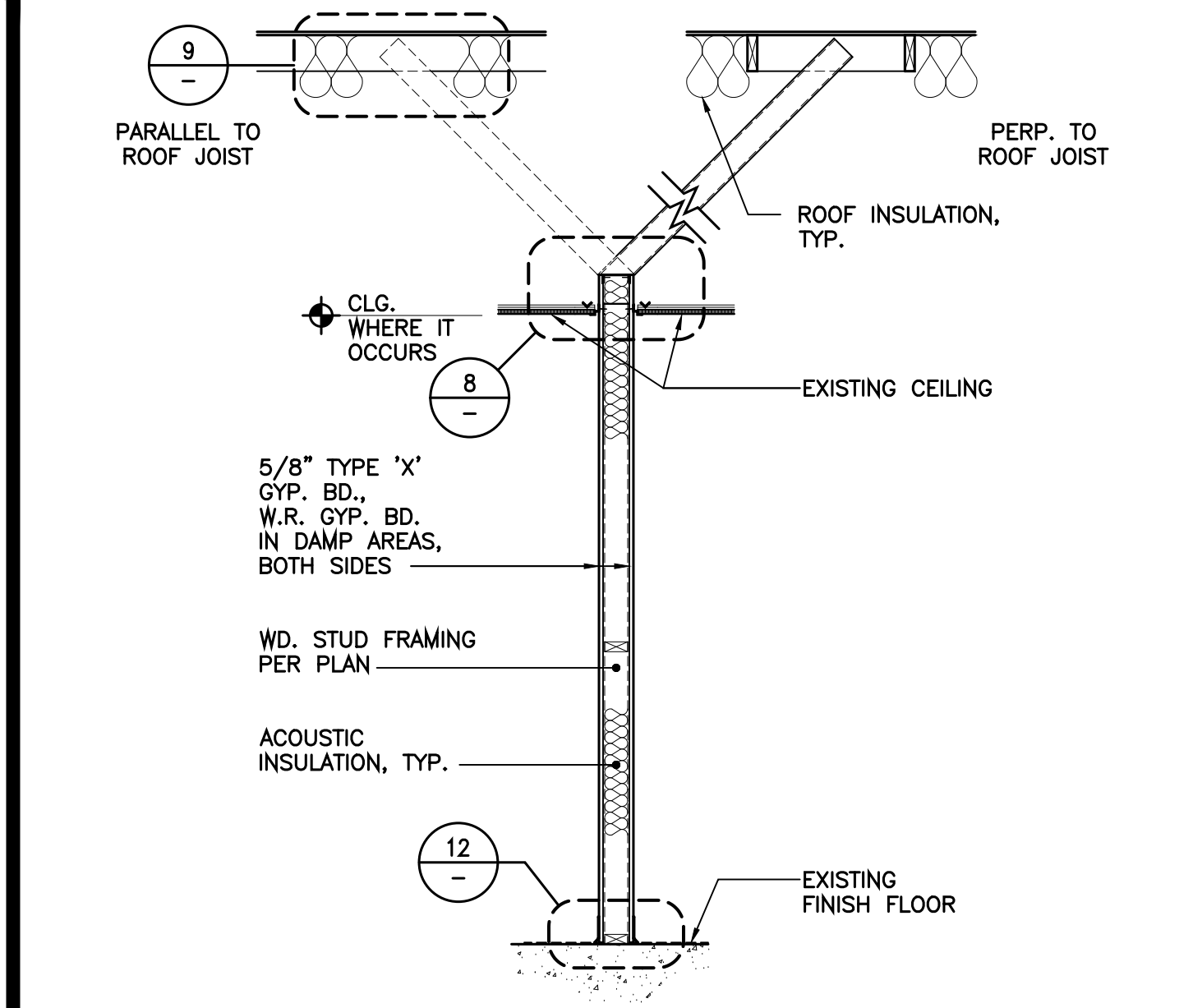
WOOD_STUD_WALL_INTERSECTIONS 1-1/2"=1'-0" 13



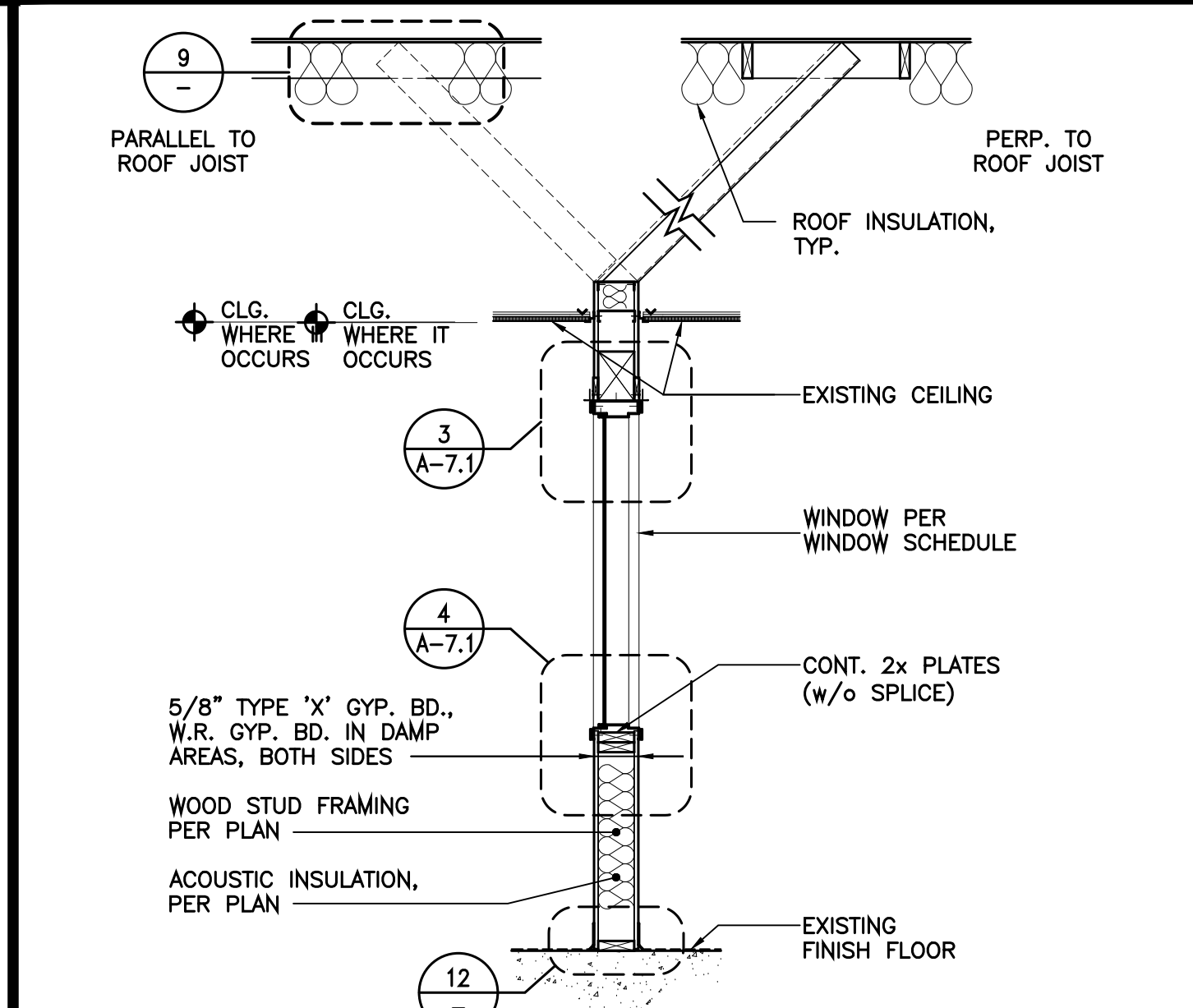
CLG. TO WALL ALT. BRACING DETAIL 1-1/2"=1'-0" 11



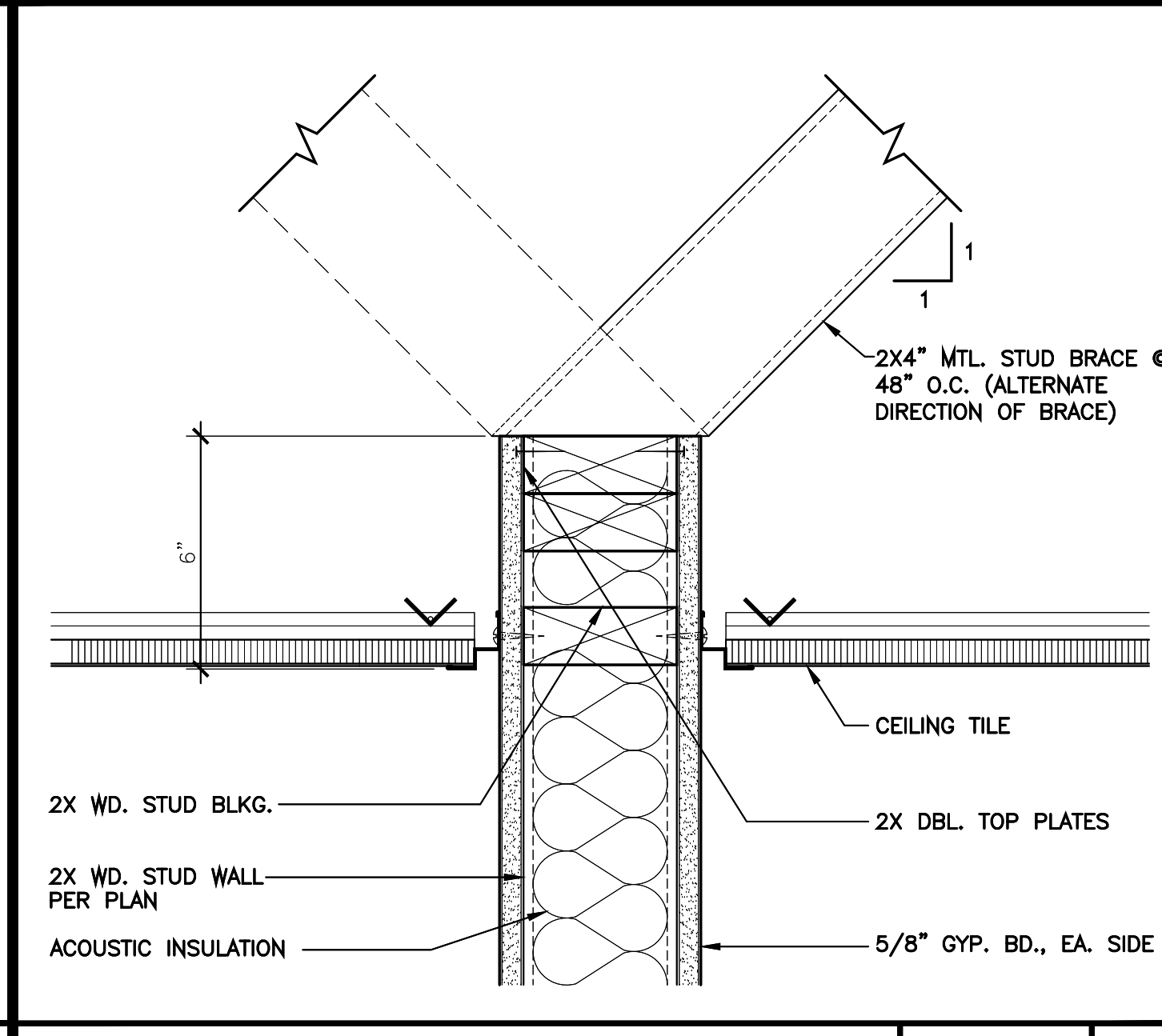
BASE 3"=1'-0" 12



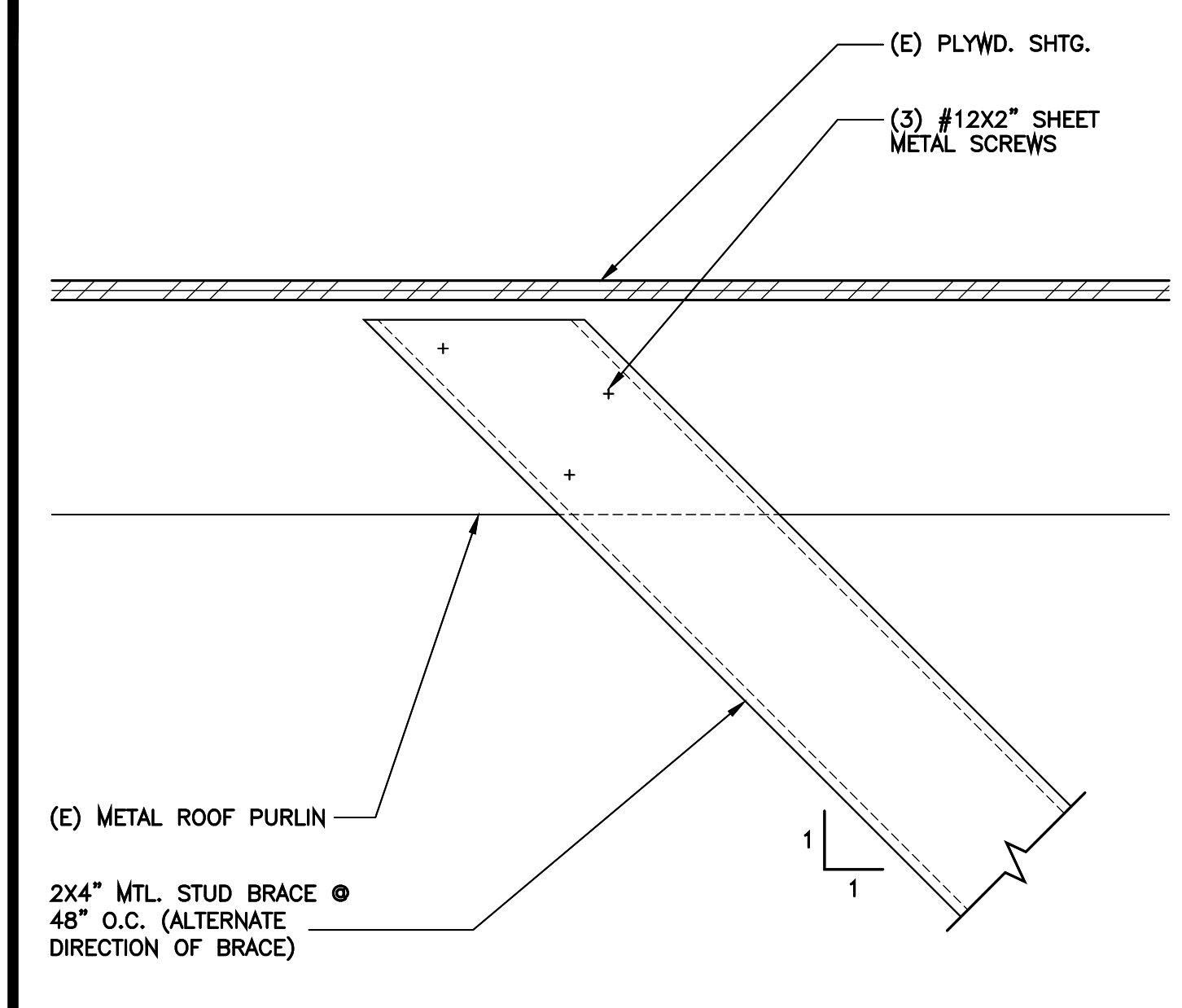
INTERIOR PARTITION - BRACED 1/2"=1'-0" 6



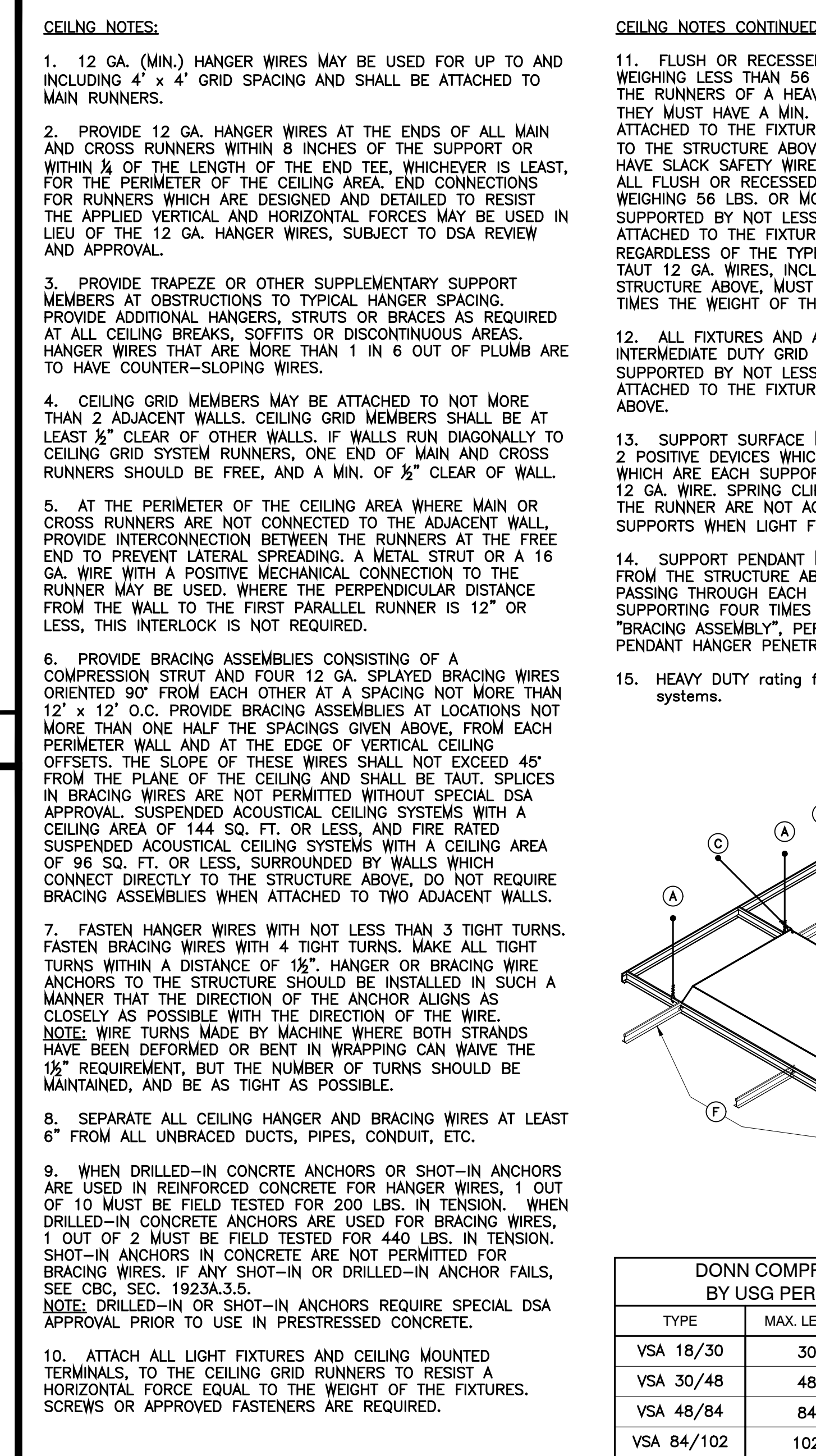
INTERIOR PARTITION 1/2"=1'-0" 7



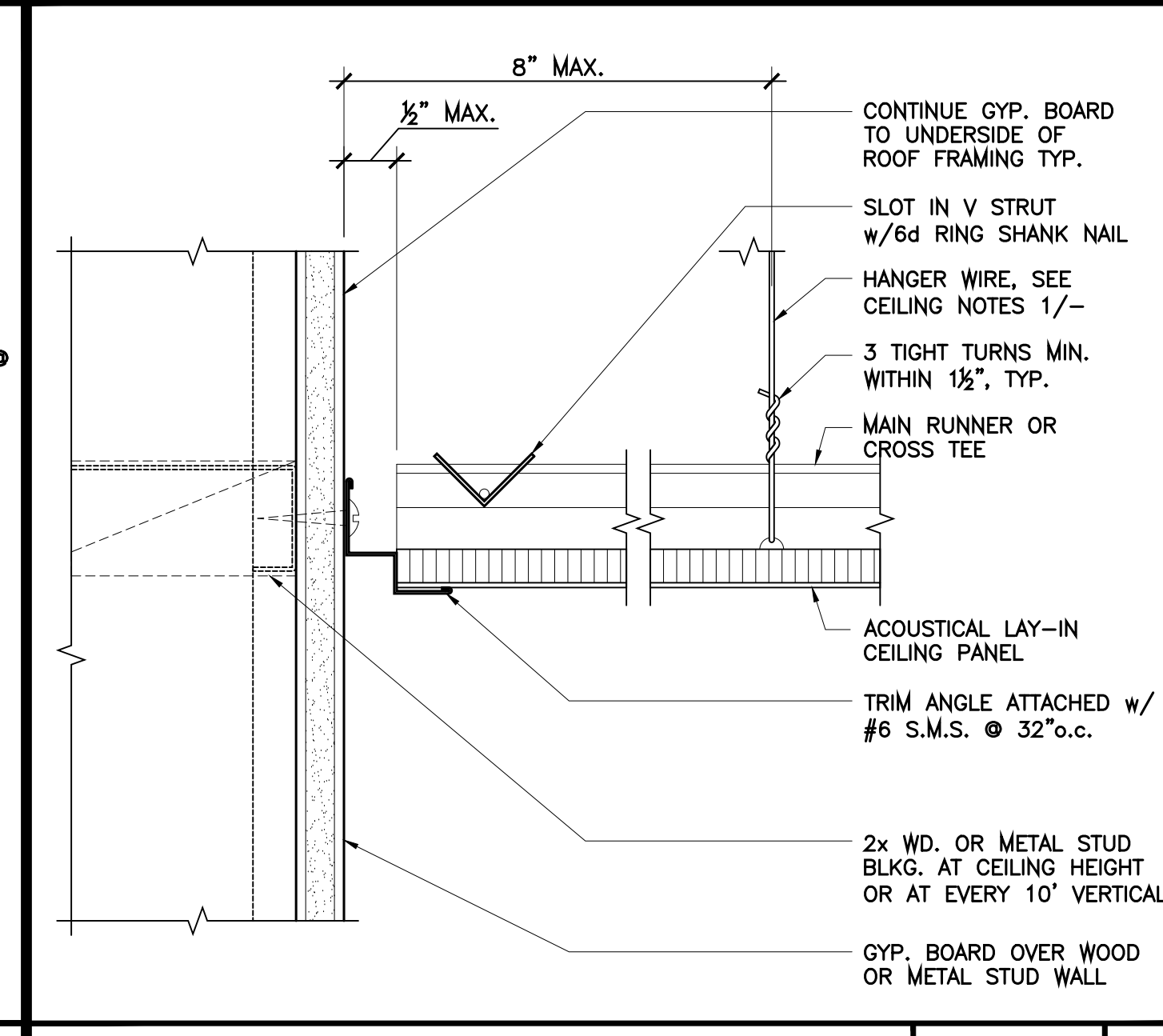
WALL BRACED 3"=1'-0" 8



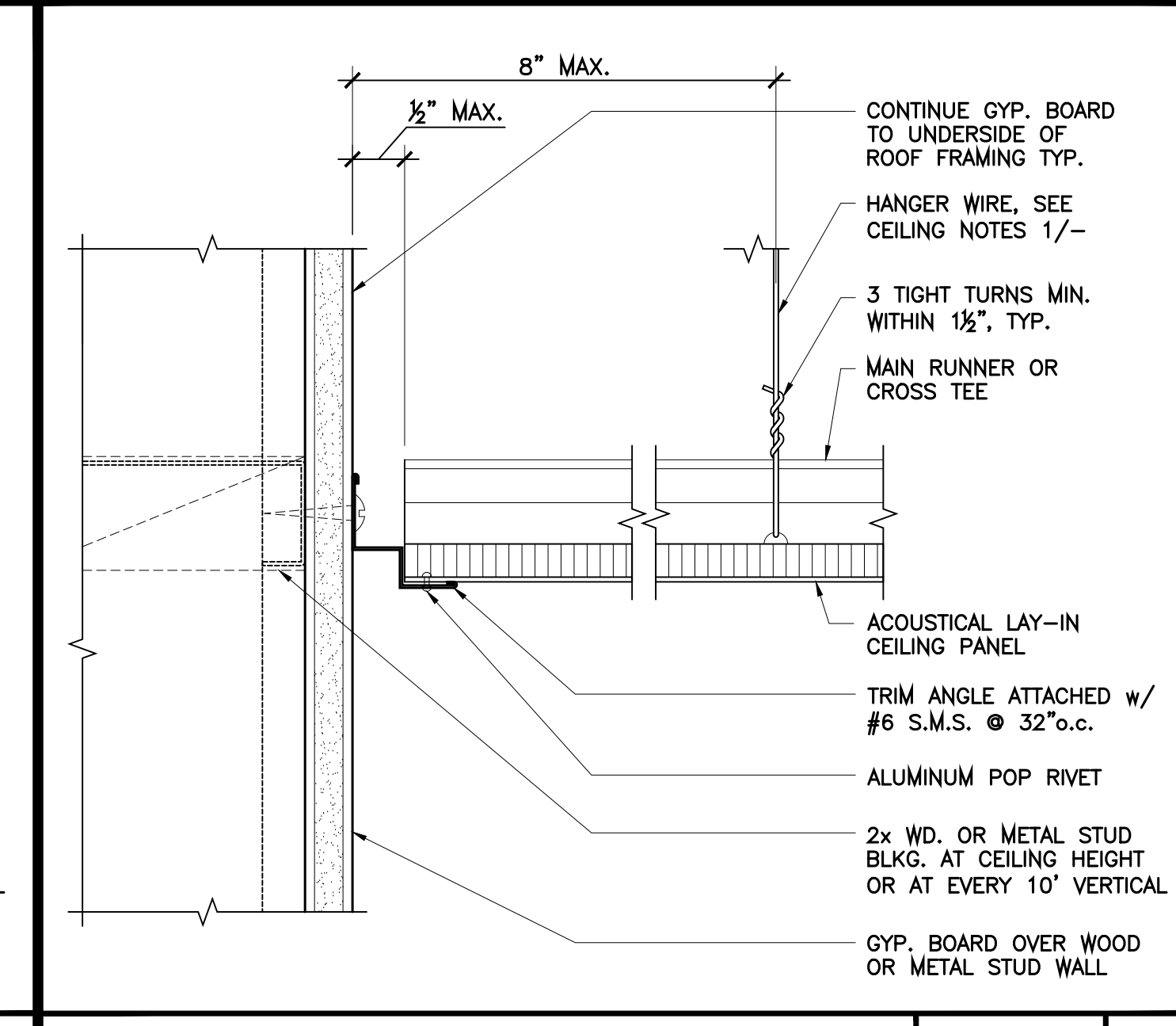
BRACE PARALLEL TO ROOF JOIST 3"=1'-0" 9



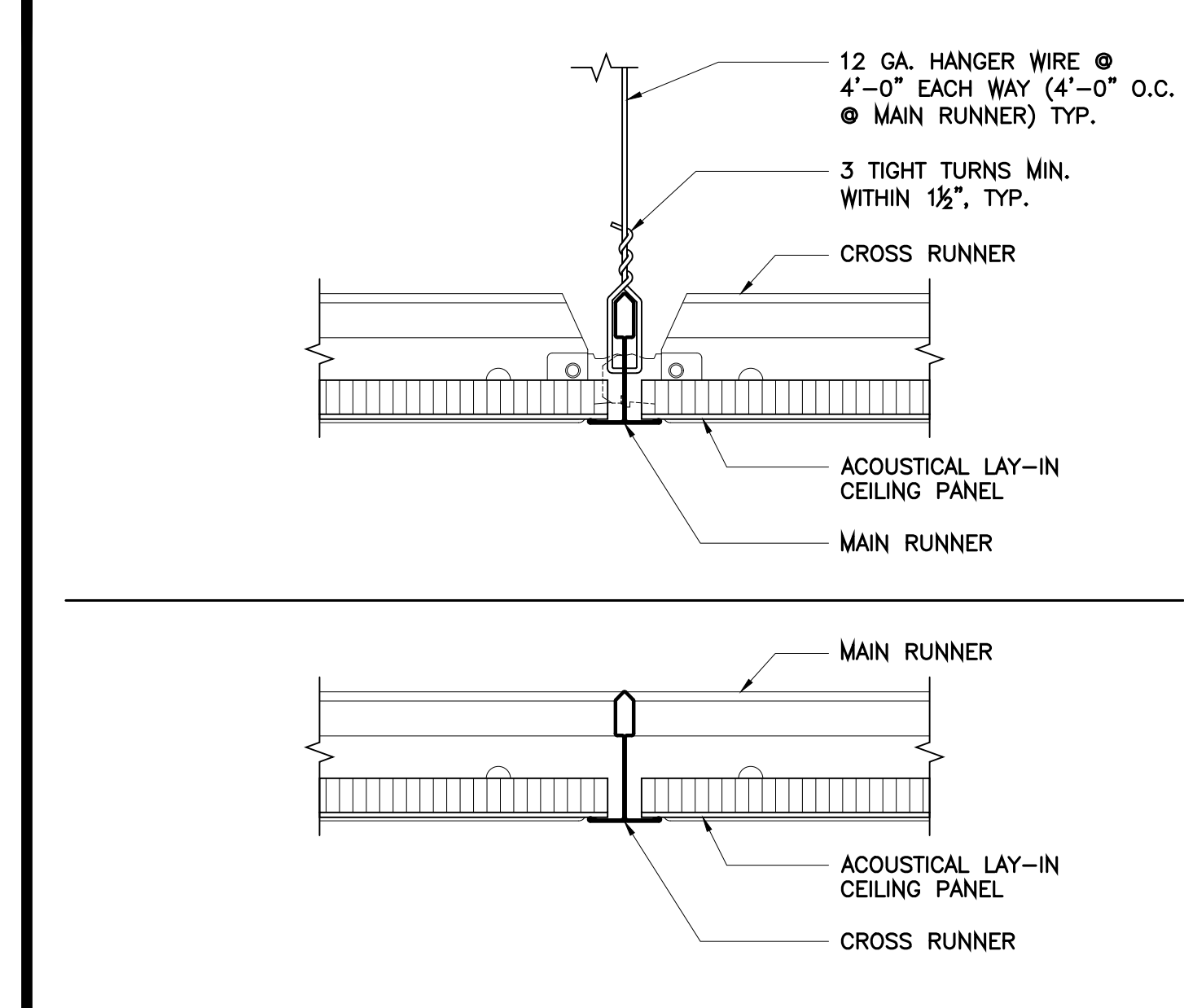
TYPICAL SUSPENDED LAY-IN CEILING DETAILS AND NOTES N.T.S. 1



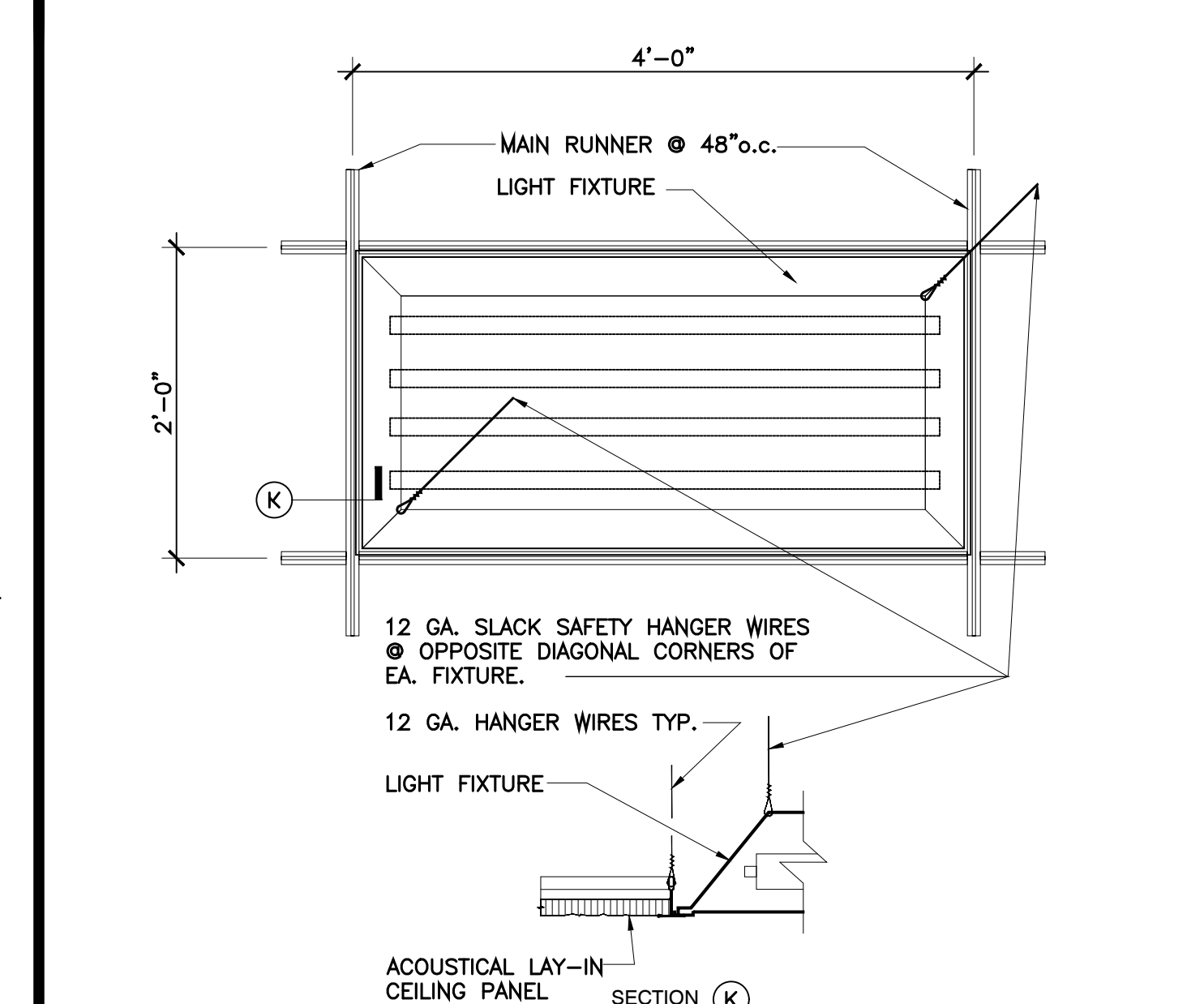
SUSPENDED CEILING - FREE END 6"=1'-0" 4




SUSPENDED CEILING - FIXED END 6"=1'-0" 2



MAIN RUNNER / CROSS RUNNER 6"=1'-0" 5



LIGHT FIXTURE @ SUSPENDED CEILING 1"=1'-0" 3



CITY Approval Stamp

REVISIONS

NO.	DESCRIPTION

DC | ARCHITECTS

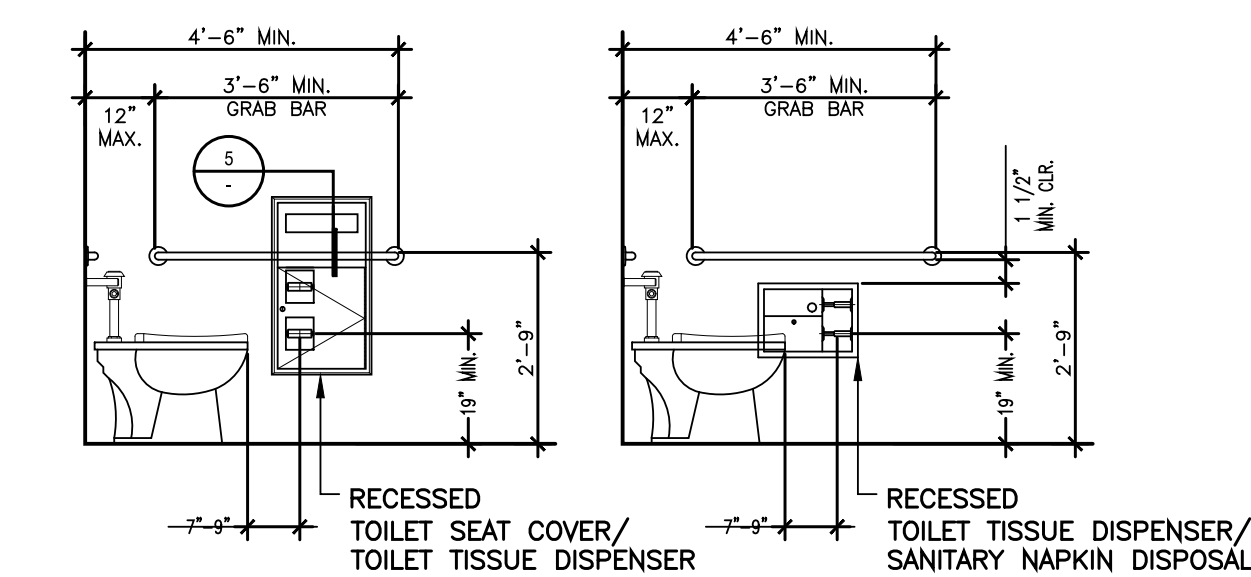
INTERIOR RENOVATION @ ENR. CENTER
WHAA BUILDING SITE
1535 W. HIGHLAND AVE
SAN BERNARDINO, CA 92411
SAN BERNARDINO CITY U.S.D.

820 N. MOUNTAIN AVENUE
SUITE 200
UPLAND, CA 91786
(909) 985-6839 OFFICE
(909) 985-1884 FAX

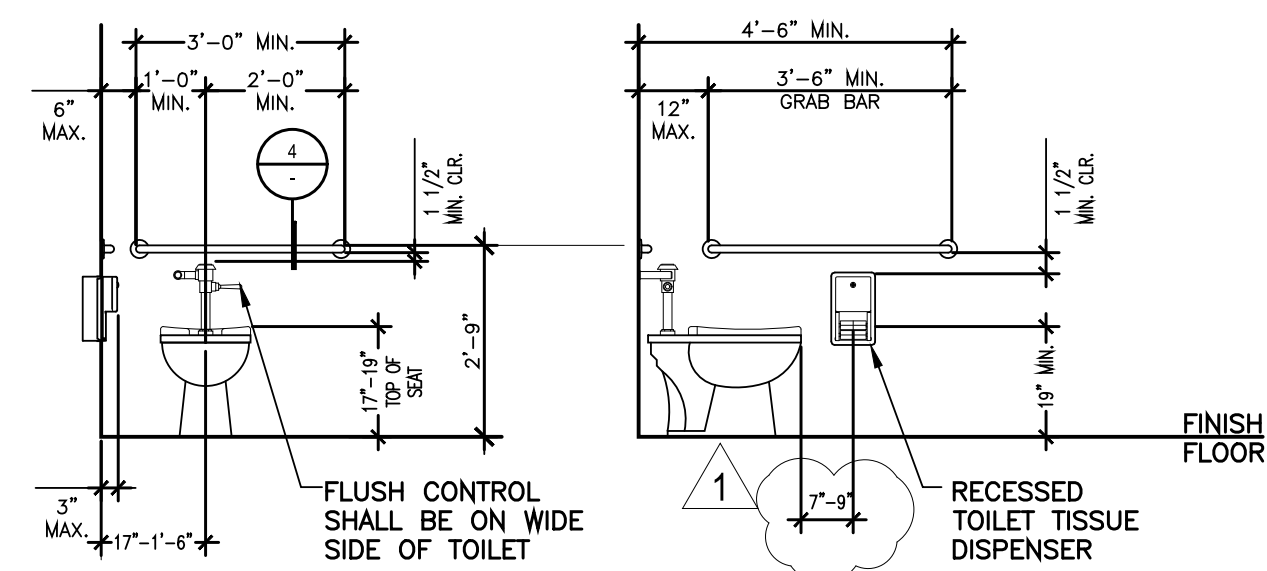
CEILING & PARTITION DETAILS

DATE: 05.15.2019
SCALE: AS SHOWN
DRAWN BY: PS
CHECKED BY: PS

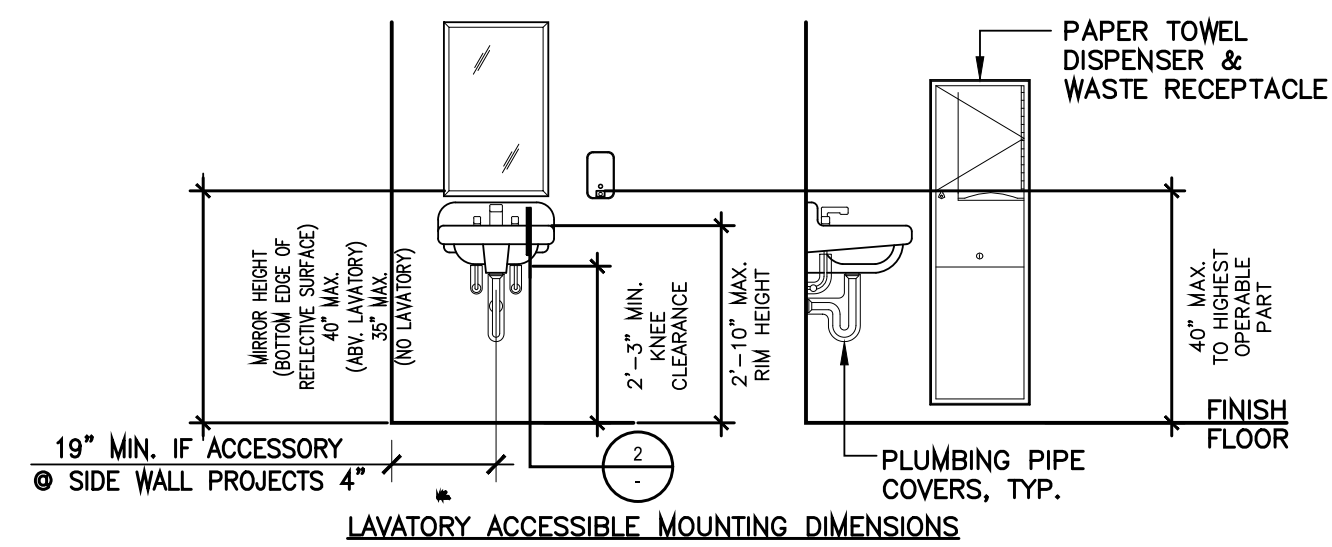
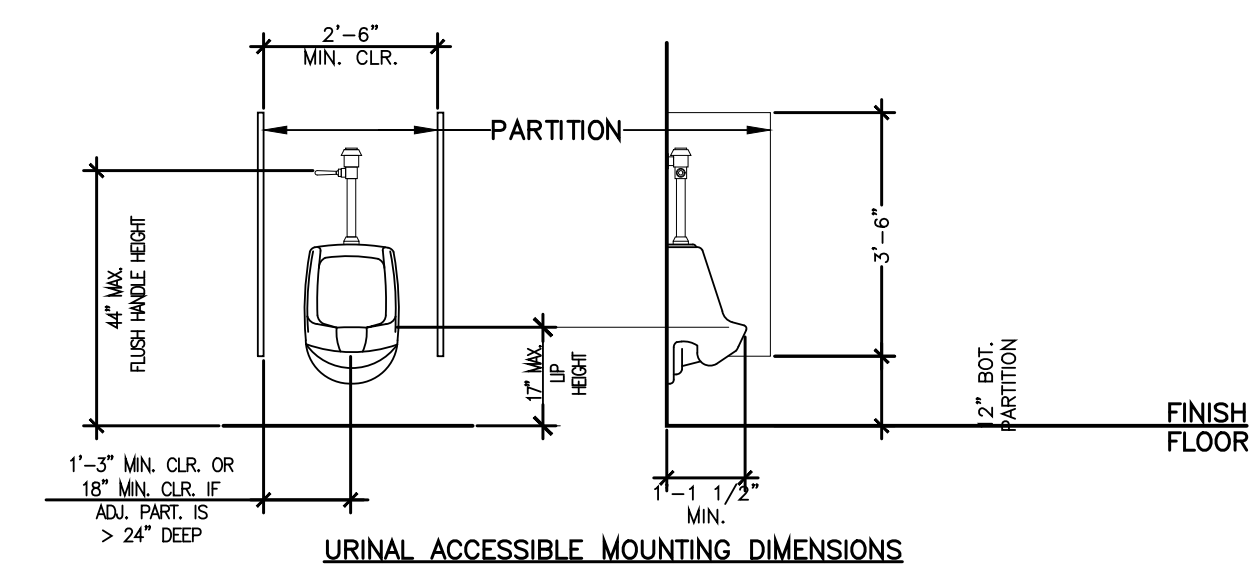
A-10.1



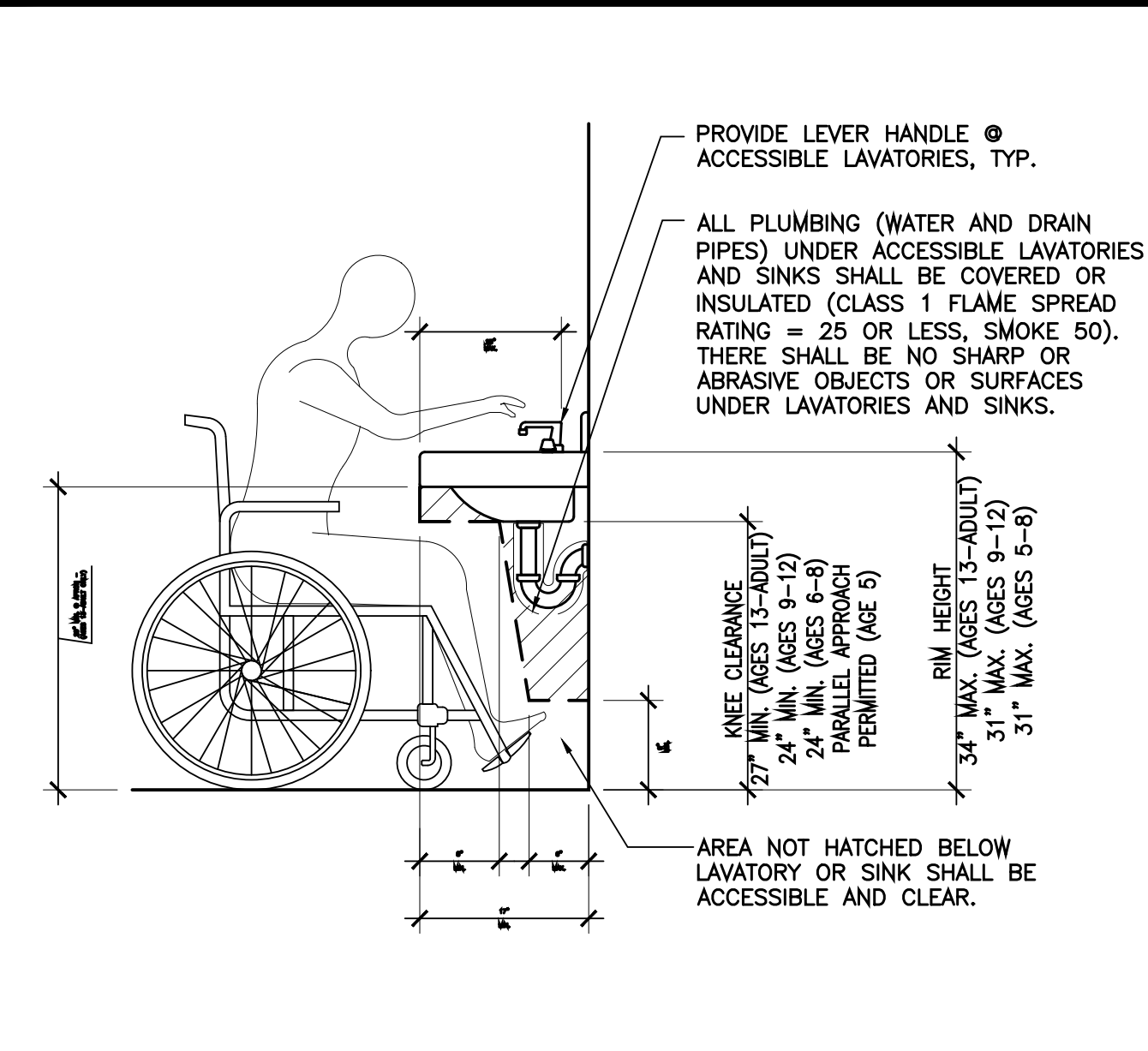
ALTERNATE TOILET ACCESSIBLE MOUNTING DIMENSIONS



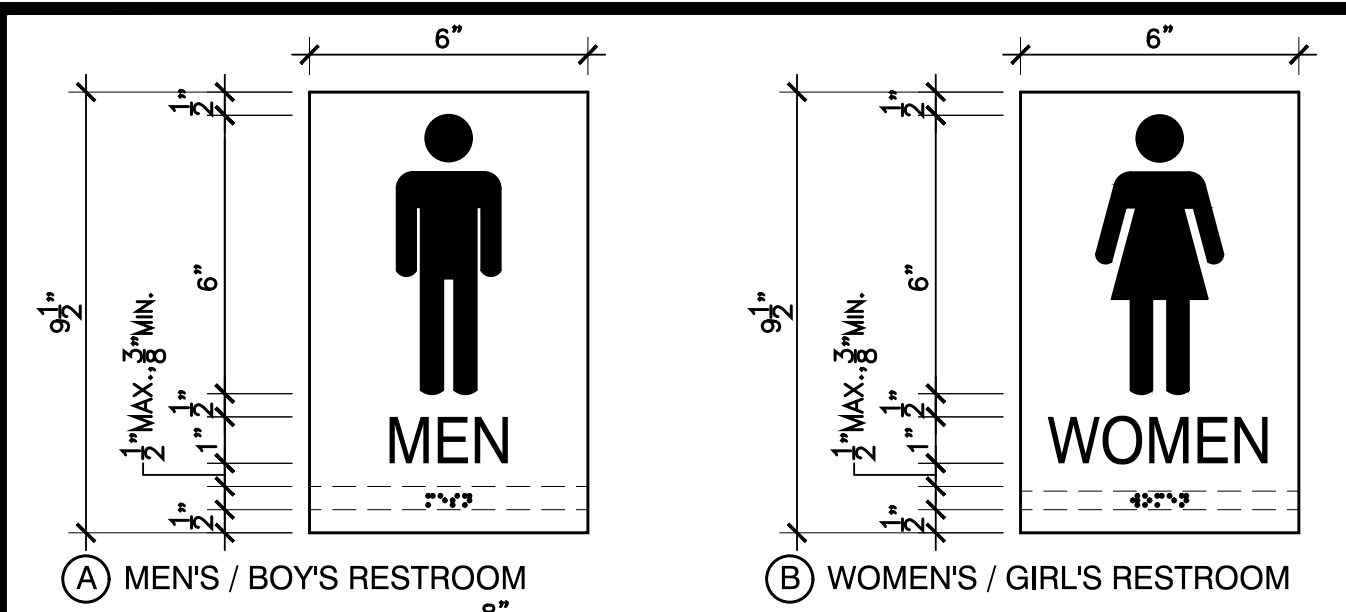
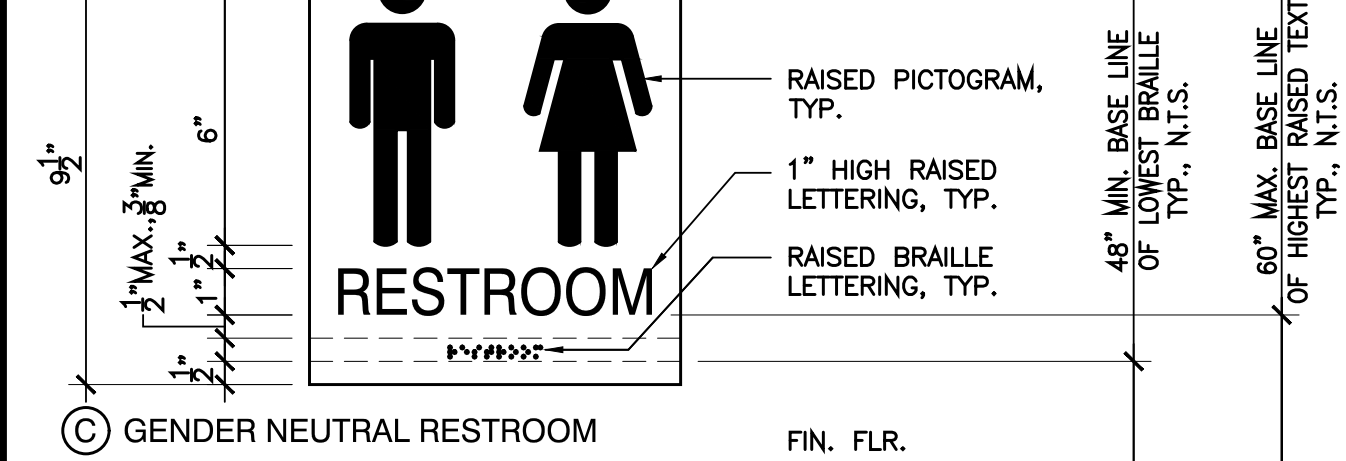
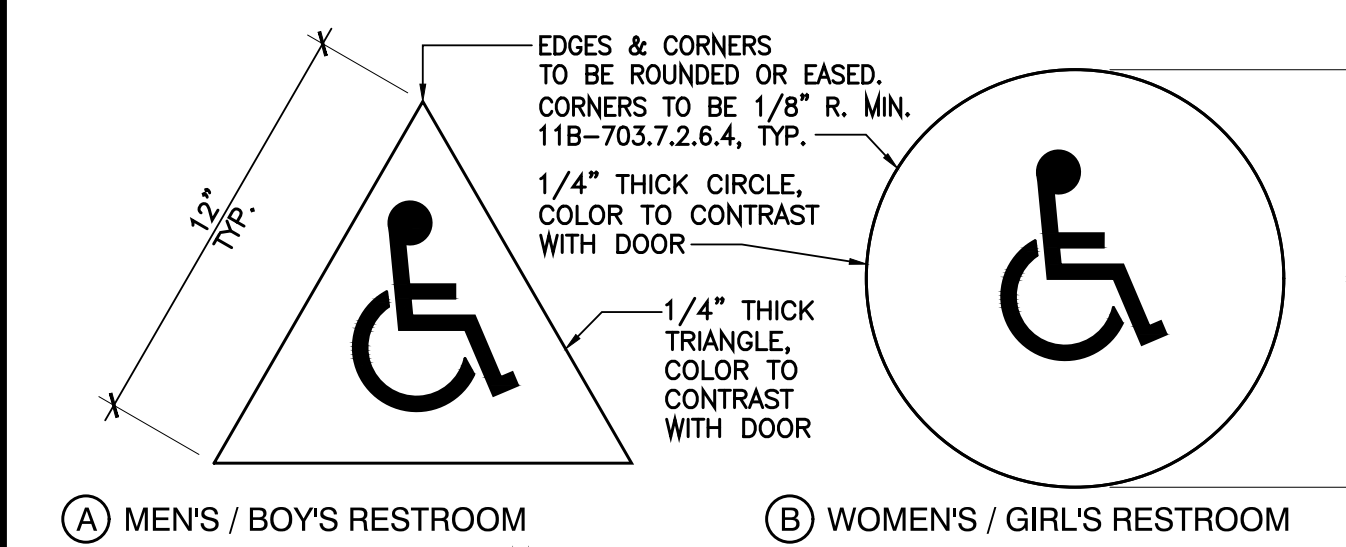
TOILET ACCESSIBLE MOUNTING DIMENSIONS



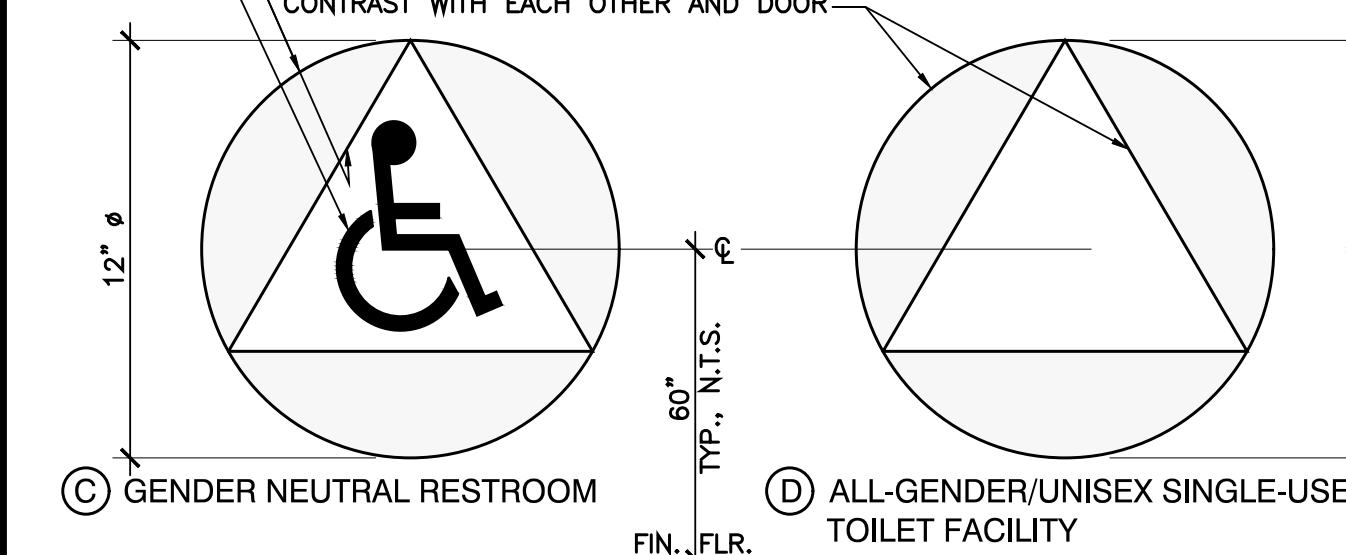
LAVATORY ACCESSIBLE MOUNTING DIMENSIONS



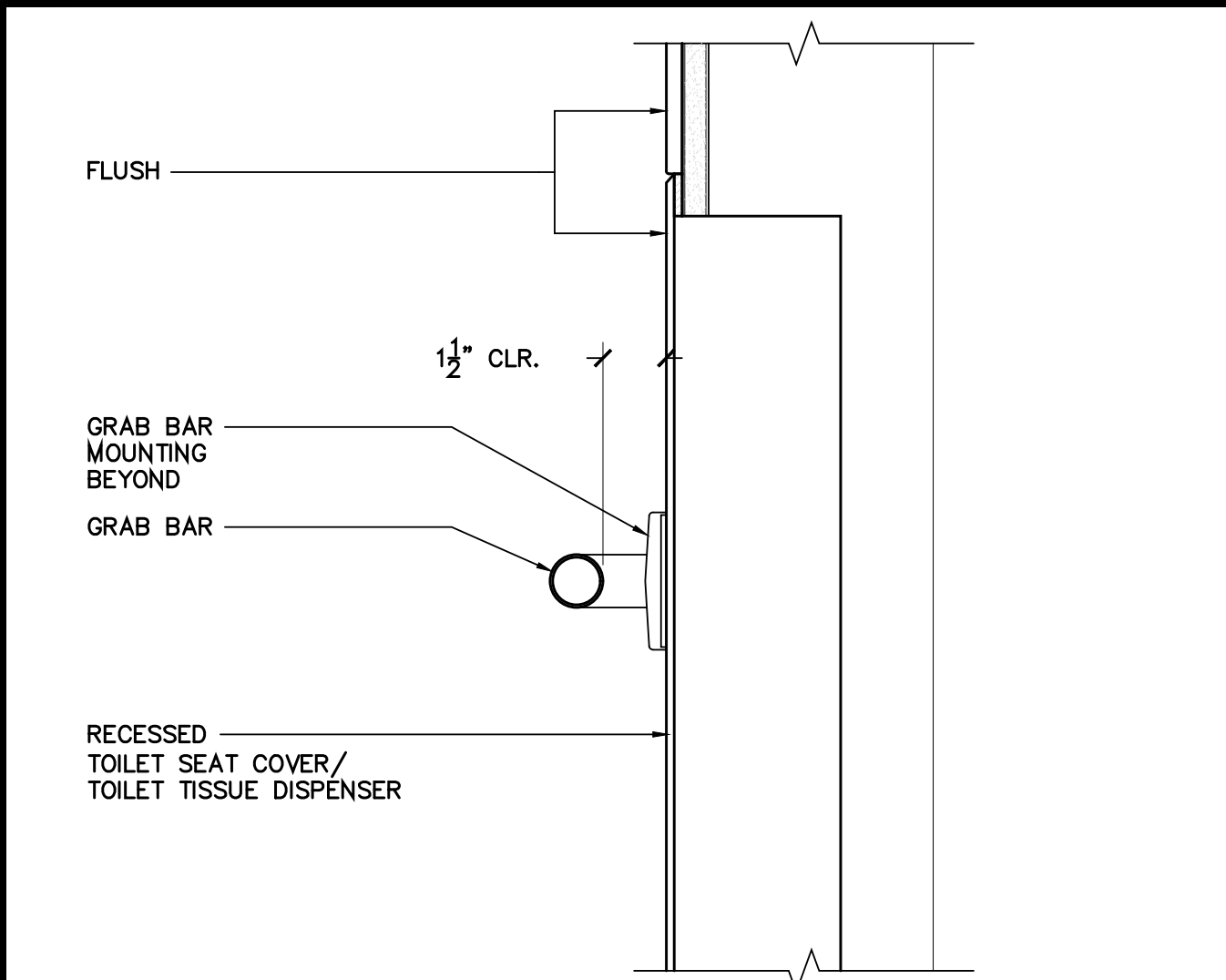
ACCESSIBLE LAVATORY CLEARANCES	3/4" = 1'-0"	6
---------------------------------------	--------------	----------

[illegible][illegible]

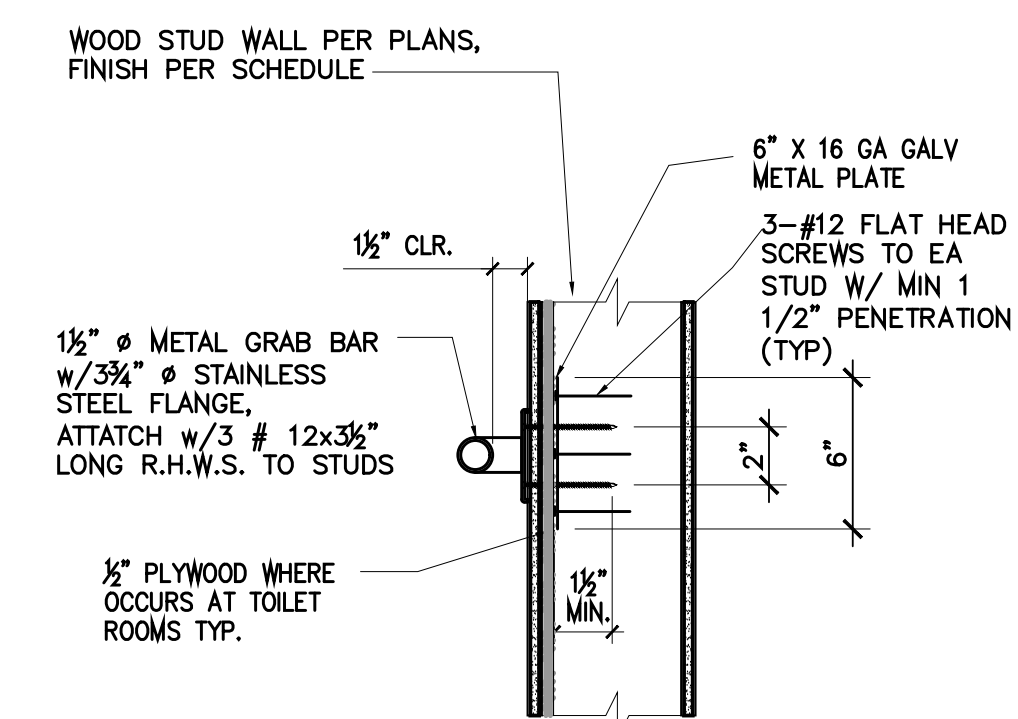
RAISED PICTOGRAM
1/4" THICK TRIAN



RESTROOM DOOR SIGNS (TYP)

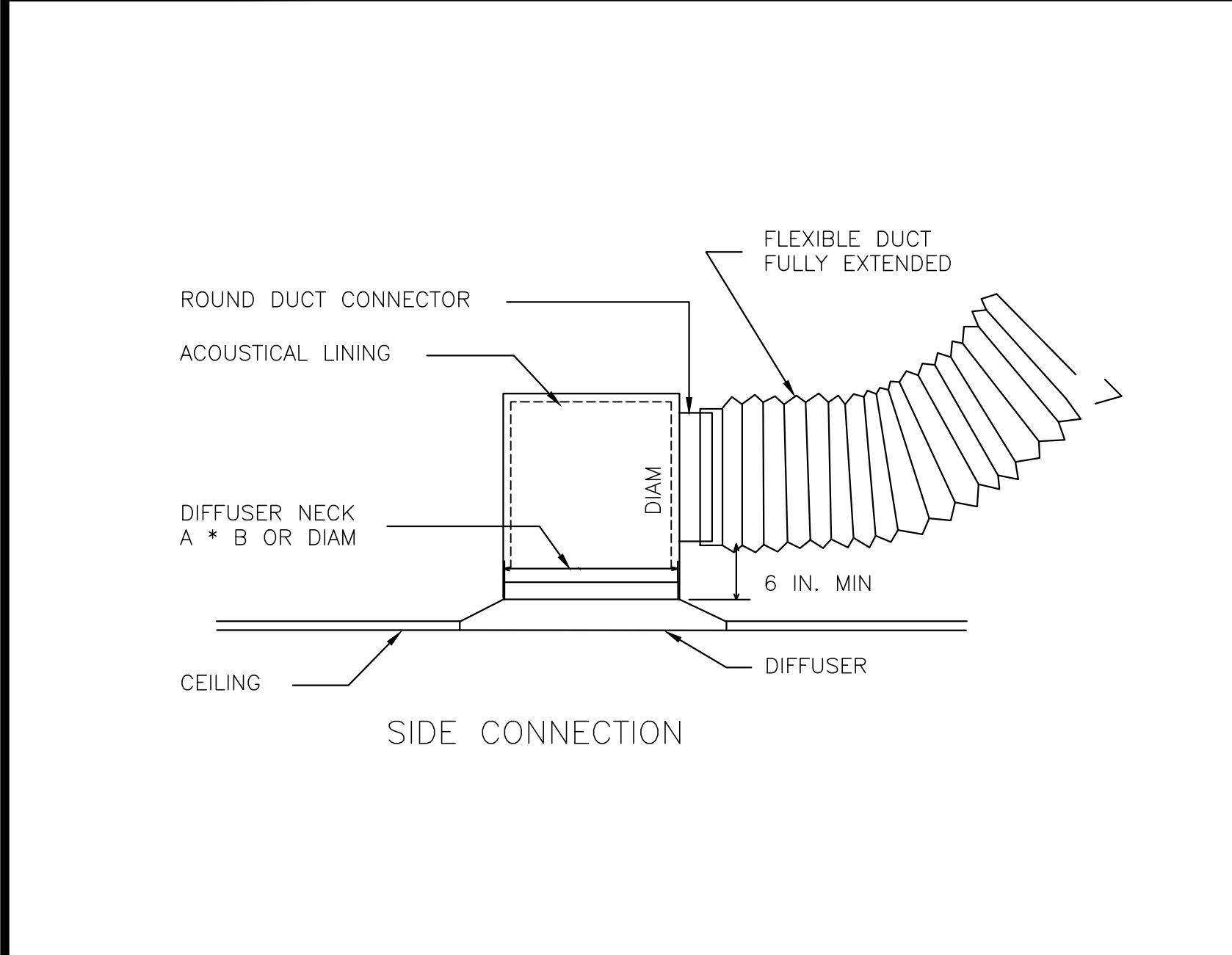


GRAB BAR CLEARANCE DETAIL (TYP)



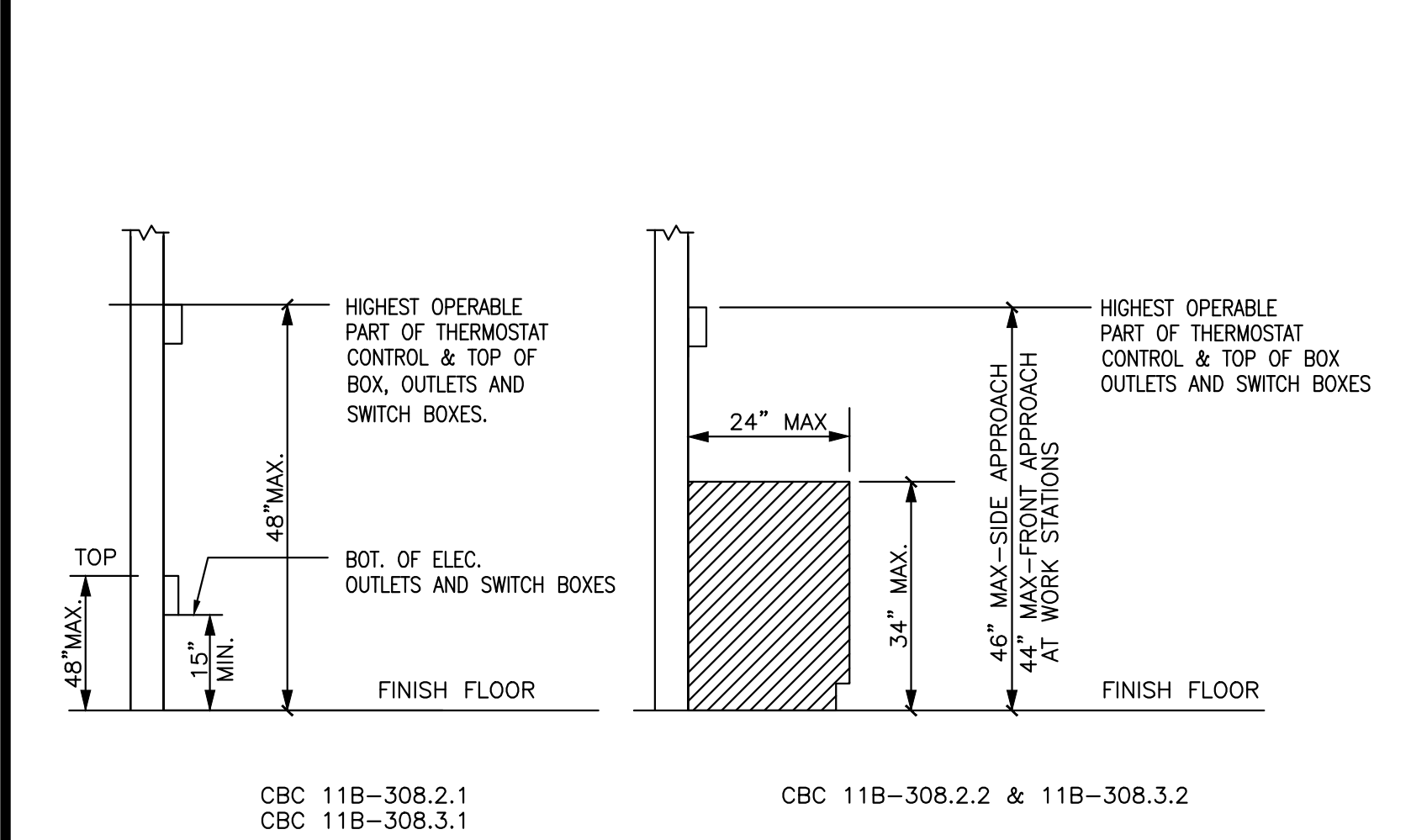
NOTE:
GRAB BAR AND MOUNTINGS TO WITHSTAND 250LB.
FORCE IN BENDING, SHEAR & TENSION W/ 1/8" MIN.
RADIUS ON ALL EDGES. BAR SHALL NOT ROTATE IN
FITTING.

GRAB BAR ANCHORAGE DETAIL (TYP)



DIFFUSER CONNECTION DETAIL

SCALE	1
NONE	



THERMOSTAT MOUNTING DETAIL

SCALE	2
NONE	



SCALE	1
NONE	

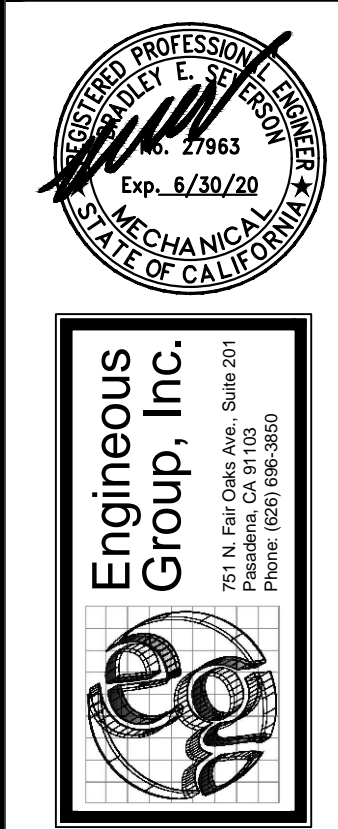
AIR CONDITIONING REQUIREMENTS

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CALIFORNIA MECHANICAL CODE, 2001 EDITION TITLE 24 PART 5

- A. FURNISH ALL LABOR, SUPERVISION, MATERIALS, EQUIPMENT AND FACILITIES. NECESSARY TO FURNISH, FABRICATE, DELIVER, AND STORE AND INSTALL ALL WORK NOTED ON THE DRAWINGS AND/OR SPECIFIED HEREIN.
- THE CONTRACTOR SHALL FURNISH AND INSTALL ALL WORK NECESSARY TO MAKE A COMPLETE SYSTEM WHETHER OR NOT SUCH DETAILS ARE MENTIONED IN THESE SPECIFICATIONS OR SHOWN ON THE PLANS, BUT WHICH ARE OBVIOUSLY NECESSARY TO MAKE A COMPLETE SYSTEM, EXCEPTING ONLY THOSE PORTIONS THAT ARE SPECIFICALLY MENTIONED HEREIN OR PLAINLY MARKED ON THE ACCOMPANYING DRAWINGS AS BEING INSTALLED UNDER ANOTHER SECTION OF THE SPECIFICATIONS.
- WORKMANSHIP: THE WORK SHALL BE ACCOMPLISHED IN A THOROUGH AND WORKMAN-LIKE MANNER SATISFACTORY TO AND MEETING THE APPROVAL OF THE OWNER AND ARCHITECT.
- MATERIALS: ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND THE BEST OF THEIR RESPECTIVE KIND, FREE FROM ALL DEFECTS AND OF THE MAKE AND QUALITY SPECIFIED.
- SITE INSPECTION: CONTRACTOR SHALL VISIT THE SITE OF WORK PRIOR TO SUBMISSION OF HIS BID AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE WORKING CONDITIONS & EXACT NATURE OF THE WORK. SUBMISSION OF A BID ACKNOWLEDGES FULL RESPONSIBILITY FOR FURNISHING A COMPLETE AND FUNCTIONAL SYSTEM, NO CHANGES IN CONTRACT WILL BE MADE TO ACCOMMODATE OR ALLOW EXTRA FUNDS FOR ANY OMISSION WHICH RESULTS FROM A FAILURE TO THOROUGHLY MAKE THE EXAMINATION.
- COORDINATION: THE DRAWINGS ARE DIAGRAMMATIC AND INTENDED TO SHOW SCOPE. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES TO PROVIDE BEST ARRANGEMENT OF ALL DUCTS, PIPES, CONDUIT, ETC. LOCATION OF EXISTING PIPING AND DUCTWORK SHOWN IS APPROXIMATE; CONTRACTOR SHALL VERIFY THEIR LOCATION PRIOR TO BEGINNING WORK OF THIS SECTION AND SHALL MAKE MODIFICATIONS AND ADJUSTMENTS REQUIRED TO INSTALL THE WORK OF THIS SECTION.
- CUTTING AND PATCHING: ALL CUTTING AND PATCHING REQUIRED OF THE STRUCTURE (NEW OR EXISTING) SHALL BE PROVIDED UNDER OTHER SECTIONS OF THE WORK. PROVIDE NECESSARY REQUIREMENTS TO THE PROJECT SUPERINTENDENT.
- CLEANUP: UPON COMPLETION OF THE WORK UNDER THIS SECTION, THE CONTRACTOR SHALL REMOVE ALL SURPLUS MATERIALS, EQUIPMENT AND DEBRIS INCIDENTAL TO THIS WORK AND LEAVE THE PREMISES CLEAN AND ORDERLY.
- DUCTWORK:
 - DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH THE UNIFORM MECHANICAL CODE (LATEST ADOPTED VERSION) AND SMACNA STANDARDS.
 - DUCTWORK SHALL BE GALVANIZED STEEL.
 - DOUBLE THICKNESS TURNING VANES SHALL BE USED ON ALL DUCT TURNS OF 90°.
 - ALL DUCT JOINTS SHALL BE SEALED AIR TIGHT WITH APPROVED DUCT SEALER AND DUCT TAPE.
 - FLEXIBLE DUCT USED FOR CONDITIONED AIR SHALL BE U.L. APPROVED, VINYL COATED, WIRE REINFORCED FIBERGLASS, WITH MAXIMUM CONDUCTANCE OF .30 AND A MAXIMUM LENGTH OF FIVE FEET.
 - FILTERS SHALL BE U.L. RATED AND APPROVED.
 - INSULATION:
 - INSULATION SHALL BE U.L. LISTED IN COMPLIANCE WITH FLAME-SPREAD RATING OF NOT MORE THAN 25 AND SMOKE DENSITY NOT EXCEEDING 50, PER THE UNIFORM MECHANICAL CODE. INSTALLATION SHALL BE IN ACCORDANCE WITH THE STATE OF CALIFORNIA ENERGY COMMISSION AND UMC REQUIREMENTS.
 - INSULATE ALL INTERIOR CONDITIONED SUPPLY AND RETURN AIR DUCTWORK WITH 1 1/2" THICK, .75 LB. PER CU. FT. DENSITY FIBERGLASS INSULATION WITH VAPOR BARRIER (MINIMUM R-VALUE = 4.0 AT 75°F MEAN TEMPERATURE).
 - CONDITIONED SUPPLY AND RETURN AIR DUCTWORK EXPOSED TO THE WEATHER SHALL BE INTERNALLY LINED WITH 1-1/2" THICK, 1.5 LB. PER CU. FT. DENSITY FIBERGLASS DUCT LINER (MINIMUM R-VALUE = 6.3).
 - VOLUME DAMPERS SHALL BE PROVIDED IN EACH BRANCH DUCT TO EACH DIFFUSER AND REGISTER, AND SHALL BE LOW LEAKAGE OPPOSED BLADE ADJUSTABLE TYPE.
 - CONTRACTOR SHALL AFFIX A MAINTENANCE LABEL TO ALL EQUIPMENT REQUIRING ROUTINE MAINTENANCE AND SHALL PROVIDE THREE COPIES OF MAINTENANCE AND OPERATING MANUALS TO THE OWNER.
 - EACH MECHANICAL VENTILATION SYSTEM (SUPPLY AND/OR EXHAUST) SHALL BE EQUIPPED WITH A MEANS OF SHUT-OFF WHEN VENTILATION IS NOT REQUIRED, AND BACKDRAFT DAMPERS WHICH CAN BE CLOSED ON FAN SHUTDOWN SHALL BE PROVIDED FOR AIR INTAKES AND/OR DISCHARGES.
 - EACH GRAVITY VENTILATION SYSTEM, EXCEPT FOR COMBUSTION AIR OPENINGS, SHALL BE PROVIDED WITH AUTOMATIC DAMPERS IN ALL OPENINGS TO THE OUTSIDE.
 - EACH AIR HANDLING SYSTEM ABOVE 2000 CFM SHALL BE PROVIDED WITH SUITABLE SMOKE DETECTORS IN THE SUPPLY DUCT PER UMC, INTERLOCKED WITH FAN STARTER(S) FOR AUTOMATIC SHUT-OFF.
 - TEMPERATURE CONTROL DEVICES: EACH HVAC SYSTEM SHALL BE PROVIDED WITH AN AUTOMATIC SPACE TEMPERATURE CONTROL DEVICE THAT SHALL BE CAPABLE OF BEING SET TO MAINTAIN SPACE TEMPERATURE SET POINTS FROM 59°F TO 85°F AND SHALL BE CAPABLE OF OPERATING THE SYSTEM HEATING AND COOLING IN SEQUENCE. CONTROLS SHALL BE ADJUSTED TO PROVIDE A TEMPERATURE RANGE OF AT LEAST 5°F AND UP TO 10°F BETWEEN FULL HEATING AND COOLING, AND HAVE A CAPABILITY OF TERMINATING ALL HEATING AT A TEMPERATURE OF NO MORE THAN 70°F AND COOLING AT A TEMPERATURE NOT LESS THAN 78°F.
 - THERMOSTATS SHALL HAVE NUMERIC SETPOINTS IN °F, ADJUSTABLE SETPOINT STOPS ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL, AND SHALL BE MOUNTED AT 48" ABOVE FINISHED FLOOR.
 - BALANCING AND ADJUSTING: ALL AIR SYSTEMS SHALL BE ADJUSTED BY AN INDEPENDENT BALANCING CONTRACTOR THAT IS A MEMBER OF THE ASSOCIATED AIR BALANCING COUNCIL (AABC) OR THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB). SUBMIT BALANCE REPORT TO OWNER PRIOR TO RECEIVING FINAL PAYMENT. ADDITIONAL BALANCING DAMPERS AND/OR PULLEY CHANGES SHALL BE PROVIDED AS REQUIRED TO BALANCE SYSTEMS AT NO INCREASE IN CONTRACT PRICE.
 - AUTOMATIC CONTROLS WHICH COMPLY WITH TITLE 24 REQUIREMENTS FOR OFF-HOUR CONTROL SHALL BE PROVIDED FOR EACH SYSTEM, CONSISTING OF A 4 HOUR TIMER THAT CAN BE MANUALLY OPERATED TO CONTROL THE OPERATING PERIOD OF THE SYSTEM. CONTROLS SHALL BE PROVIDED THAT TEMPORARILY OPERATE THE SYSTEM AS REQUIRED DURING OFF HOURS TO MAINTAIN A SETBACK HEATING AND COOLING THERMOSTAT SETPOINT.
 - BEFORE STARTING ANY WORK, THE CONTRACTOR FOR THIS SECTION OF THE WORK SHALL EXAMINE A COMPLETE SET OF DRAWINGS FOR ALL TRADES, INCLUDING ARCHITECTURAL, STRUCTURAL, HVAC, ELECTRICAL, FIRE PROTECTION AND PLUMBING, DIMENSIONS, SPACE REQUIREMENTS AND POINTS OF CONNECTION TO ALL EQUIPMENT SHALL BE VERIFIED, AND ANY MAJOR ADJUSTMENTS NECESSARY TO AVOID CONFLICT WITH THE BUILDING STRUCTURE AND THE WORK OF THE OTHER TRADES SHALL BE MADE. CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY IF ANY MAJOR CONFLICTS OCCUR.
 - COORDINATE LOCATIONS OF ALL ROOF AND EXTERIOR WALL OPENINGS WITH ALL RELEVANT TRADES, AND PROVIDE WATERTIGHT FLASHINGS WHEREVER PENETRATIONS OCCUR. EXACT LOCATIONS AND SIZES MAY BE DEPENDENT UPON EQUIPMENT SELECTIONS. COORDINATE SIZES AND LOCATIONS OF ALL OPENINGS WITH APPROPRIATE EQUIPMENT REQUIREMENTS.
 - PERMANENT ACCESS TO EQUIPMENT SHALL BE PROVIDED, AND A MINIMUM OF 30" CLEAR WORKING SPACE IN FRONT OF ACCESS PANELS TO THE COMPRESSOR, BLOWER ASSEMBLY AND AIR FILTER SECTION OF THE EQUIPMENT SHALL BE PROVIDED.
 - ALL EQUIPMENT SHALL BE SECURELY FASTENED TO THE BUILDING STRUCTURE WITH CODE APPROVED EARTHQUAKE RESTRAINTS.
 - GAS-FIRED EQUIPMENT SHALL BE EQUIPPED WITH A PILOTLESS ELECTRONIC INTERMITTENT IGNITION SYSTEM.
 - A 1" MINIMUM CONDENSATE DRAIN FROM EACH AIR CONDITIONING UNIT TO A CODE APPROVED RECEPTOR SHALL BE PROVIDED.
 - COMBINATION SMOKE/FIRE DAMPERS SHALL BE INSTALLED IN DUCTS PASSING THROUGH FIRE WALLS, AND WHERE SHOWN ON DRAWINGS, SMOKE DAMPERS SHALL BE INTERLOCKED WITH THE BUILDING FIRE/LIFE SAFETY SYSTEM. ACCESS TO FUSIBLE LINKS AND/OR DAMPER MOTORS SHALL BE PROVIDED THROUGH ACCESS DOORS. DAMPERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH NFPA 90A, UBC AND UMC REQUIREMENTS, APPROVED BY THE STATE FIRE MARSHAL, AND INSTALLED PER THE MANUFACTURER'S U.L. INSTALLATION INSTRUCTIONS.
 - EACH PIECE OF EQUIPMENT AND ALL SYSTEMS SHALL BE ADJUSTED AND RE-ADJUSTED TO INSURE PROPER FUNCTION OF ALL CONTROLS, MAINTENANCE OF TEMPERATURE, ADEQUACY OF FLOWS AND CAPACITIES, ELIMINATION OF NOISE AND VIBRATION, AND SHALL BE LEFT IN PROPER OPERATING CONDITION.
 - MINIMUM VENTILATION RATES SHALL COMPLY WITH THE LATEST EDITION OF ASHRAE AND CEC REQUIREMENTS. CONTROLS SHALL BE PROVIDED TO ALLOW OUTSIDE AIR DAMPERS OR DEVICES TO BE OPERATED AT THE REQUIRED VENTILATION RATES.
 - FINAL LOCATION OF CEILING DIFFUSERS SHALL BE PER THE ARCHITECTURAL REFLECTED CEILING PLAN OR AS PER FIELD REQUIREMENTS.
 - NO COMBUSTIBLE MATERIALS SHALL BE INSTALLED IN RETURN AIR PLENUMS.
 - ACCESS DOORS: FOR ALL COMBINATION SMOKE/FIRE DAMPERS AND WHERE NECESSARY IN DUCTWORK OR CHIMNEYS, SUITABLE ACCESS DOORS AND FRAMES TO PERMIT INSPECTION, OPERATION AND MAINTENANCE OF ALL CONTROLS, MOTOR BEARINGS, OR OTHER APPARATUS CONCEALED BEHIND THE SHEET METAL WORK SHALL BE PROVIDED. ACCESS DOORS IN DUCTS MAY BE OF SINGLE PANEL CONSTRUCTION OF NOT LESS THAN NO. 18 GAUGE, GALVANIZED, AND SHALL HAVE SPONGE RUBBER GASKETS WITH HINGES AND LATCHES.
 - DUCT RUNOUTS TO DIFFUSERS AND DUCT/PIPING CONNECTIONS TO EQUIPMENT SHALL BE SIZED TO MATCH NECK OR EQUIPMENT INTAKE/DISCHARGE SIZES, UNLESS OTHERWISE NOTED.
 - AIR CONDITIONING UNITS SHALL BE STATE OF CALIFORNIA ENERGY COMMISSION LISTED, AND SHALL MEET OR EXCEED ALL APPLICABLE EFFICIENCY REQUIREMENTS.

HVAC SYMBOL AND ABBREVIATIONS

---	SUPPLY AIR DUCT
- - - - -	RETURN, TRANSFER, EXHAUST OR BY-PASS AIR DUCT
☒ OR ☒	SUPPLY AIR DIFFUSER (4 WAY OR 2 WAY THROW) S.A.
☒	RETURN AIR REGISTER R.A.
☒	TRANSFER AIR REGISTER T.A.
☒	EXHAUST AIR REGISTER E.A.
①	AC UNIT THERMOSTAT & ZONE
— —	VOLUME DAMPER V.D.
—W—	UNDER CUT DOOR
—L—	DOOR LOUVER
—(D)—	DUCT TYPE SMOKE DETECTOR
— —	DUCT TRANSITION
O.A.	OUTSIDE AIR
C.D.	CEILING DIFFUSER
F.P.	FILLER PANEL
R.C.G.	RETURN CEILING GRILLE
R.C.R.	RETURN CEILING REGISTER
T.C.G.	TRANSFER CEILING GRILLE
E.C.G.	EXHAUST CEILING GRILLE
E.C.R.	EXHAUST CEILING REGISTER
S.W.G.	SUPPLY WALL GRILLE
S.W.R.	SUPPLY WALL REGISTER
R.W.G.	RETURN WALL GRILLE
R.W.R.	RETURN WALL REGISTER
T.W.G.	TRANSFER WALL GRILLE
E.W.G.	EXHAUST WALL GRILLE
E.W.R.	EXHAUST WALL REGISTER
—●—	F.L.F.D. FUSIBLE LINK FIRE DAMPER
A.P.	ACCESS PANEL
U.L.A.P.	U.L. LISTED ACCESS PANEL
A.C.	AIR CONDITIONING UNIT
R.E.F.	ROOF EXHAUST FAN
C.E.F.	CEILING EXHAUST FAN
I.E.F.	IN-LINE EXHAUST FAN
— —	ZONE DAMPER
— —	BYPASS DAMPER
P.O.C.	POINT OF CONNECTION
A.F.F.	ABOVE FINISHED FLOOR
[A]	FURNISHED AND INSTALLED UNDER THE ARCHITECTURAL DIVISION OF THE SPECIFICATIONS.
[E]	FURNISHED AND INSTALLED UNDER THE ELECTRICAL DIVISION OF THE SPECIFICATIONS.
[S]	FURNISHED AND INSTALLED UNDER THE STRUCTURAL DIVISION OF THE SPECIFICATIONS.
—●— C.S.F.D.	COMBINATION SMOKE/FIRE DAMPER
== OR ==	INTERNALLY LINED DUCTWORK
—(C)—	CARBON DIOXIDE SENSOR
☒ OR ☒	S.A. OR R.A. DUCT DROPS
☒	E.A. DUCT DROP



CITY Approval Stamp

REVISIONS

DC | ARCHITECTS

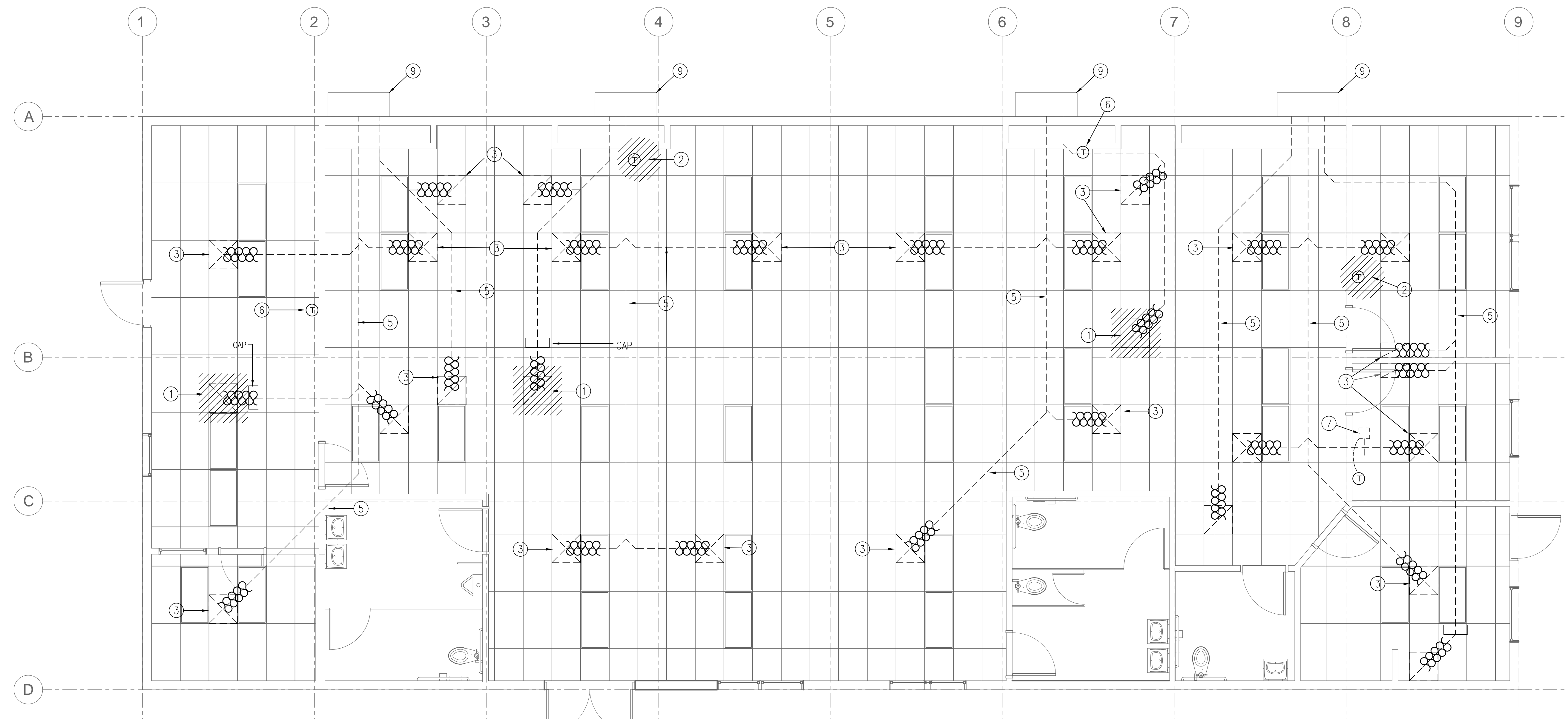
820 N. MOUNTAIN AVENUE
SUITE 200
UPLAND, CA 91786

INTERIOR RENOVATION @ ENR: CENTER
WHAA BUILDING SITE
1535 W. HIGHLAND AVE
SAN BERNARDINO, CA 92411
SAN BERNARDINO CITY U.S.D.

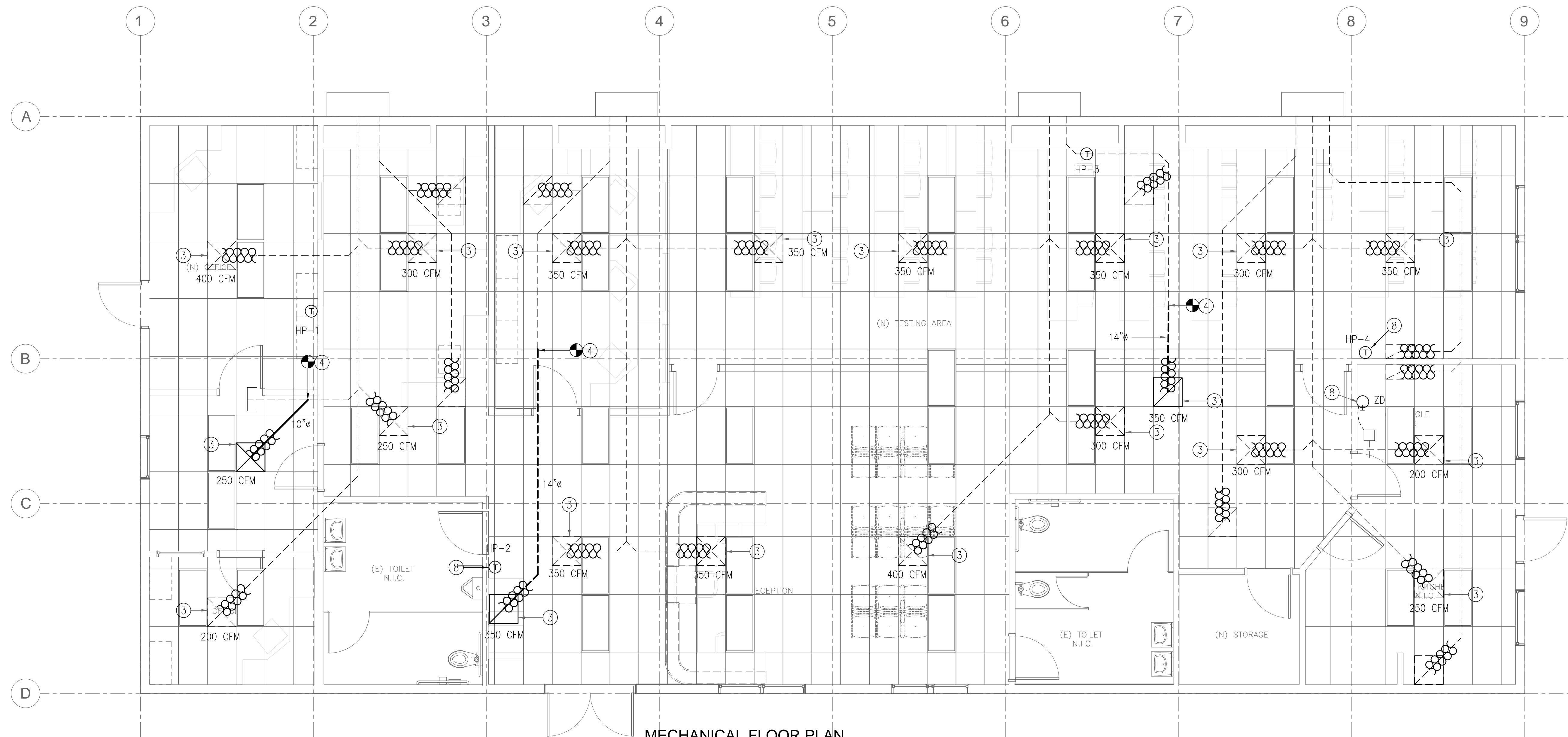
WHAA CLASSROOM
MECHANICAL DEMO
AND FLOOR PLAN

DATE: 05/12/2019
SCALE:

M-001



MECHANICAL DEMO FLOOR PLAN
Scale: 1/4" = 1' 0"



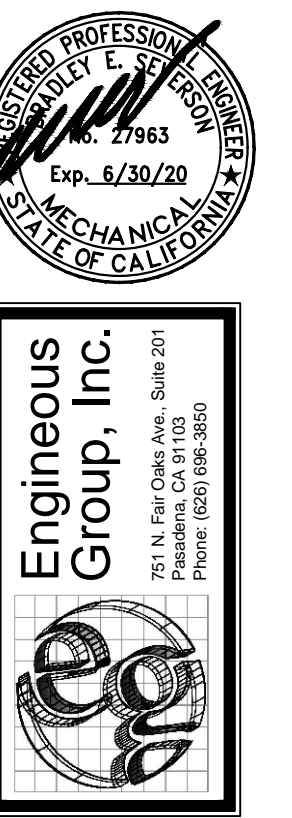
MECHANICAL FLOOR PLAN
Scale: 1/4" = 1' 0"

GENERAL NOTES:

1. ALL RELOCATED DIFFUSERS AND REGISTERS SHALL BE BALANCED TO AIR QUANTITIES INDICATED.
2. ALL REMAINING DUCTING TO BE CLEANED; SEE SPECIFICATIONS.

KEYNOTES:

- ① EXISTING DIFFUSER / REGISTER TO BE REMOVED. RETAIN FOR RE-INSTALLATION AT LOCATION SHOWN ON FLOOR PLANS.
- ② EXISTING THERMOSTAT TO BE REMOVED AND RELOCATED.
- ③ EXISTING DIFFUSER / REGISTER TO REMAIN. REBALANCE TO AIR QUANTITY INDICATED ON FLOOR PLAN WHERE APPLICABLE.
- ④ CONNECT NEW DIFFUSER / REGISTER TO EXISTING DUCTING AS INDICATED. EXTEND DUCTING AS REQUIRED. SIZE TO MATCH EXISTING.
- ⑤ EXISTING DUCTING TO REMAIN.
- ⑥ EXISTING THERMOSTAT TO REMAIN.
- ⑦ EXISTING ZONE DAMPER THERMOSTAT TO BE RELOCATED AS INDICATED ON FLOOR PLAN.
- ⑧ NEW LOCATION OF THERMOSTAT. EXTEND WIRING AS REQUIRED.
- ⑨ EXISTING WALL MOUNTED HEAT PUMP UNIT TO REMAIN. REPLACE FILTERS AND NOTIFY DISTRICT IF UNIT IS NOT IN GOOD WORKING CONDITION. REBALANCE TO AIR QUANTITY INDICATED.



CITY Approval Stamp

REVISIONS

DC | ARCHITECTS

INTERIOR RENOVATION @ ENR: CENTER

WHAA BUILDING SITE
1535 W. HIGHLAND AVE
SAN BERNARDINO, CA 92411
SAN BERNARDINO CITY U.S.D.

DATE: 05/12/2019
SCALE:

M-201

		ELECTRICAL SPECIFICATIONS		SYMBOLS LIST (NOT ALL SYMBOLS ARE USED)	
25. CLEAN-UP		1. CODE COMPLIANCE		<div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div><div></div></div><div><div><div></div></div></div></div>	

PROFESSIONAL ENGINEER

REGISTERED

NO. 15927

EXPIRATION DATE 06/30/21

SEAL

DATE

06/30/21

DC | ARCHITECTS

820 N. MOUNTAIN AVENUE
SUITE 200
UPLAND, CA 91786

(909) 985-6893 OFFICE
(909) 985-1685 FAX

INTERIOR RENOVATION

WEST HIGHLAND ADMIN. ANNEX BLDG.

1535 W. HIGHLAND AVE

SAN BERNARDINO, CA 92411

SAN BERNARDINO CITY U.S.D.

SYMBOLS, NOTES
AND SPECIFICATIONS

DATE 06/23/2019

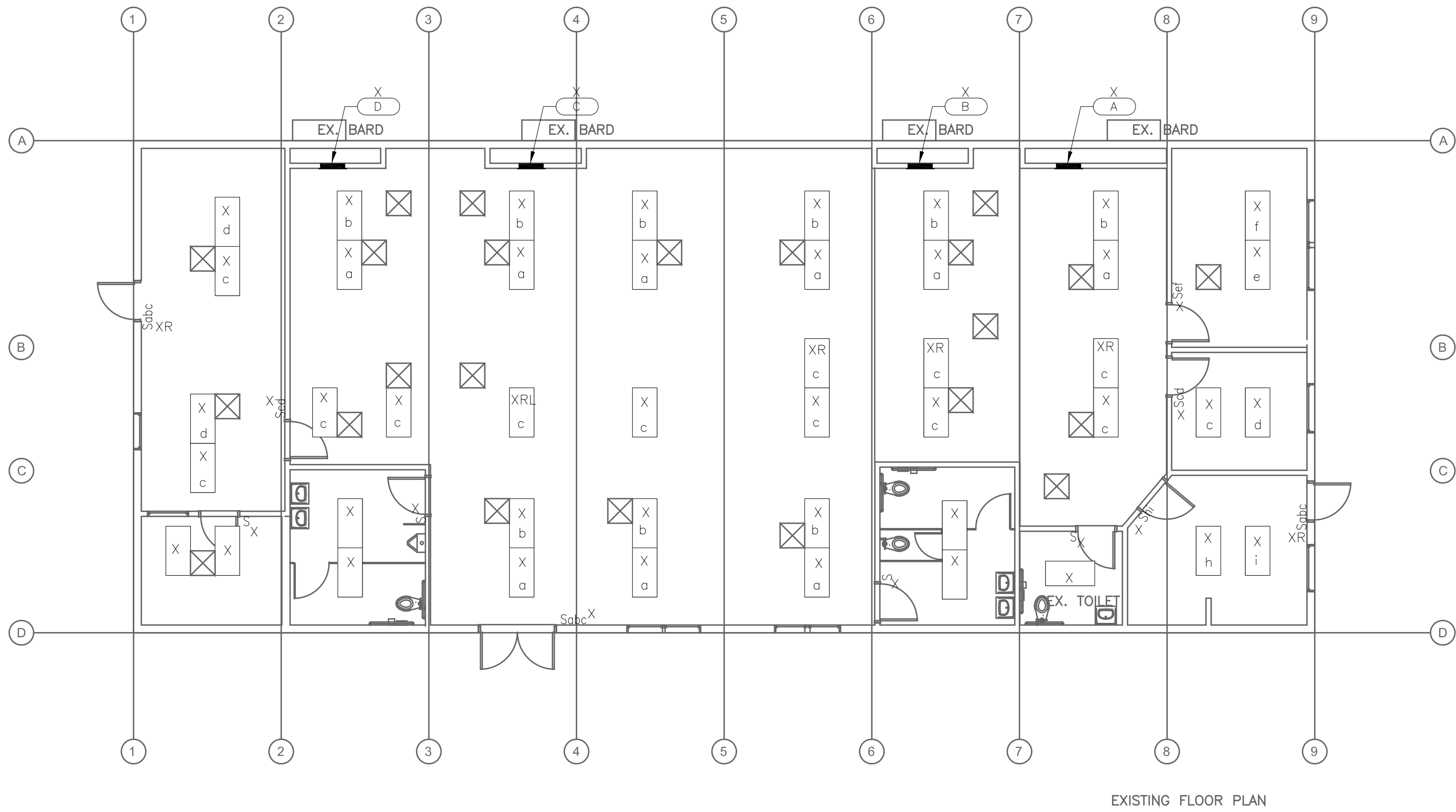
SCALE

REVISONS

CITY Approval Stamp

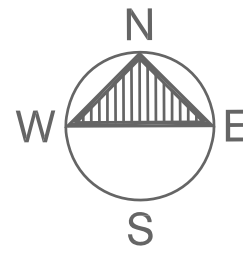
ENG2 LLC
5723 Indian Pointe Dr.
Simi Valley, CA 93063
(805) 522-1340 Office
(818) 326-2614 Cell

EXISTING PANELBOARD		PANEL "A"		MAIN BKR: 150A,2P		150A A. BUSSING	
120/240 VOLTS		LOCATION CLASSROOM		ENTER CAB'T. AT		FLUSH MTG.	
1 PHASE		FEEDER					
3 WIRE							
LOCATION	VOLT AMPS # A # B	LTC OR LCL	REC	MIS	CIR	BKR	LOCATION
RECEPTACLES EXISTING LOAD	600	-	-	-	1	20/1	AC UNIT EXISTING LOAD
RECEPTACLES	600	-	-	-	3	20/1	W/OCT 2
RECEPTACLES	600	-	-	-	5	20/1	HEAT STRIP
RECEPTACLES	600	-	-	-	7	20/1	HEAT STRIP
LIGHTING	300	1	-	-	9	20/1	RECEPTACLES
LIGHTING	300	1	-	-	11	20/1	RECEPTACLES
RECEPTACLES	600	-	-	-	13	20/1	RECEPTACLES
RECEPTACLES	600	-	-	-	15	20/1	RECEPTACLES
RECEPTACLES	600	-	-	-	17	20/1	RECEPTACLES
RECEPTACLES	600	-	-	-	19	20/1	RECEPTACLES
WATER HEATER	1200	-	-	-	21	20/1	RECEPTACLES
W/OCT 21	1200	-	-	-	23	20/1	SPARE
RECEPTACLES	600	-	-	-	25	20/1	SPARE
SPARE	0	-	-	-	27	20/1	SPARE
SPARE	0	-	-	-	29	20/1	SPARE
# A= 12750 VOLT AMPS		# B=11550 VOLT AMPS					
TOTAL CONNECTED LOAD: 24300 VA		OR 101.3 AMPS @ 240 VOLTS		- 1 ~			
LCL: 12300 VOLT AMPS x 125% = 15375 VOLT AMPS							
FDL: 27375 VOLT AMPS OR 114.1 AMPS							

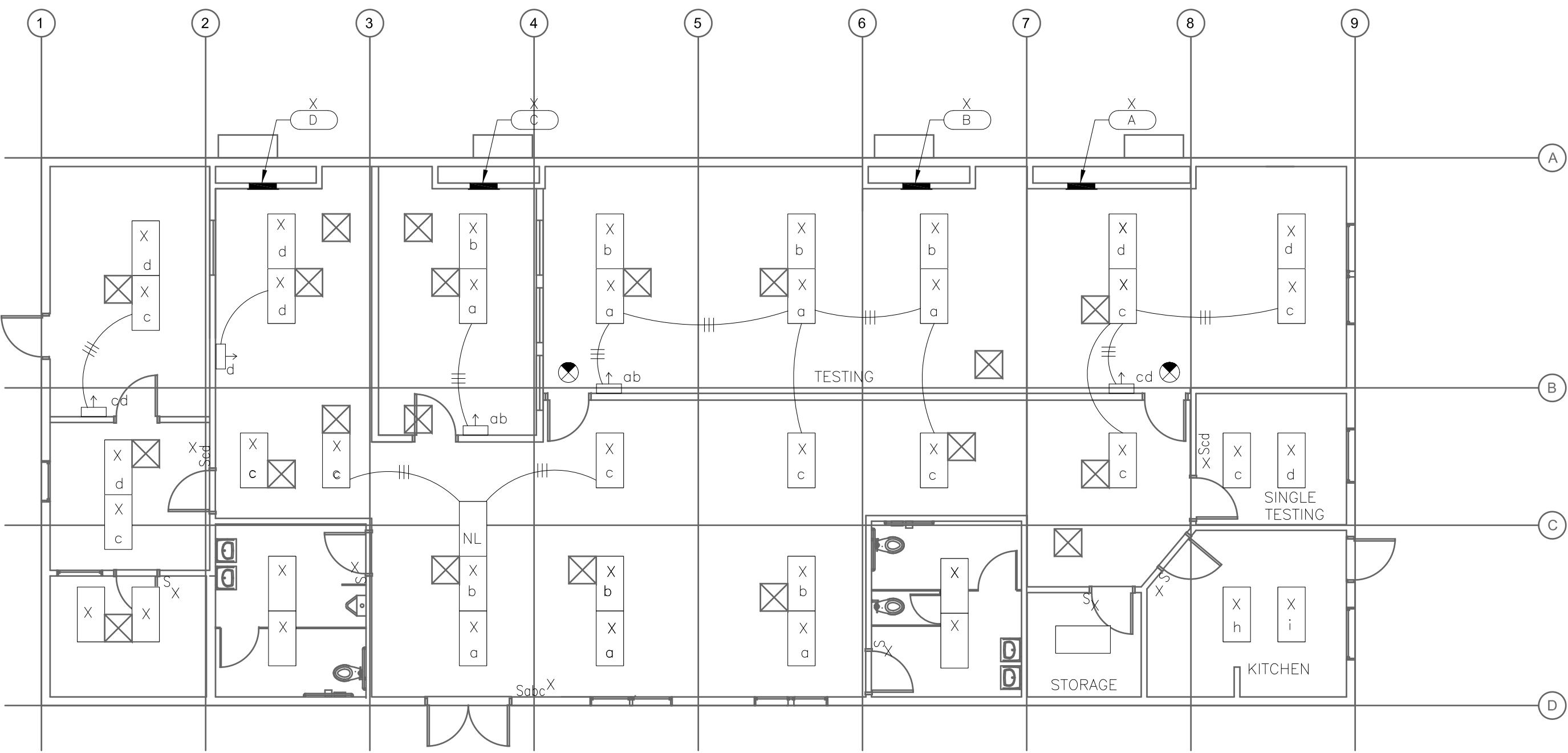


LIGHTING PLAN - DEMOLITION

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

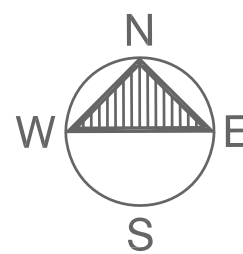


EXISTING PANELBOARD		PANEL "B"		MAIN BKR: 150A,2P		150A A. BUSSING	
120/240 VOLTS		LOCATION CLASSROOM		ENTER CAB'T. AT		FLUSH MTG.	
1 PHASE		FEEDER					
3 WIRE							
LOCATION	VOLT AMPS # A # B	LTC OR LCL	REC	MIS	CIR	BKR	LOCATION
RECEPTACLES EXISTING LOAD	600	-	-	-	1	20/1	AC UNIT EXISTING LOAD
RECEPTACLES	600	-	-	-	3	20/1	W/OCT 2
RECEPTACLES	600	-	-	-	5	20/1	HEAT STRIP
RECEPTACLES	600	-	-	-	7	20/1	HEAT STRIP
LIGHTING	300	1	-	-	9	20/1	RECEPTACLES
LIGHTING	300	1	-	-	11	20/1	RECEPTACLES
RECEPTACLES	600	-	-	-	13	20/1	RECEPTACLES
RECEPTACLES	600	-	-	-	15	20/1	RECEPTACLES
RECEPTACLES NEW LOAD	720	-	-	-	17	20/1	SPARE
RECEPTACLES NEW LOAD	540	-	-	-	19	20/1	SPARE
SPARE	0	-	-	-	21	20/1	SPARE
SPARE	0	-	-	-	23	20/1	SPARE
SPARE	0	-	-	-	25	20/1	SPARE
SPARE	0	-	-	-	27	20/1	SPARE
SPARE	0	-	-	-	29	20/1	SPARE
# A= 9870 VOLT AMPS		# B=9690 VOLT AMPS					
TOTAL CONNECTED LOAD: 19560 VA		OR 81.5 AMPS @ 240 VOLTS		- 1 ~			
LCL: 12300 VOLT AMPS x 125% = 15375 VOLT AMPS							
FDL: 22635 VOLT AMPS OR 94.3 AMPS							

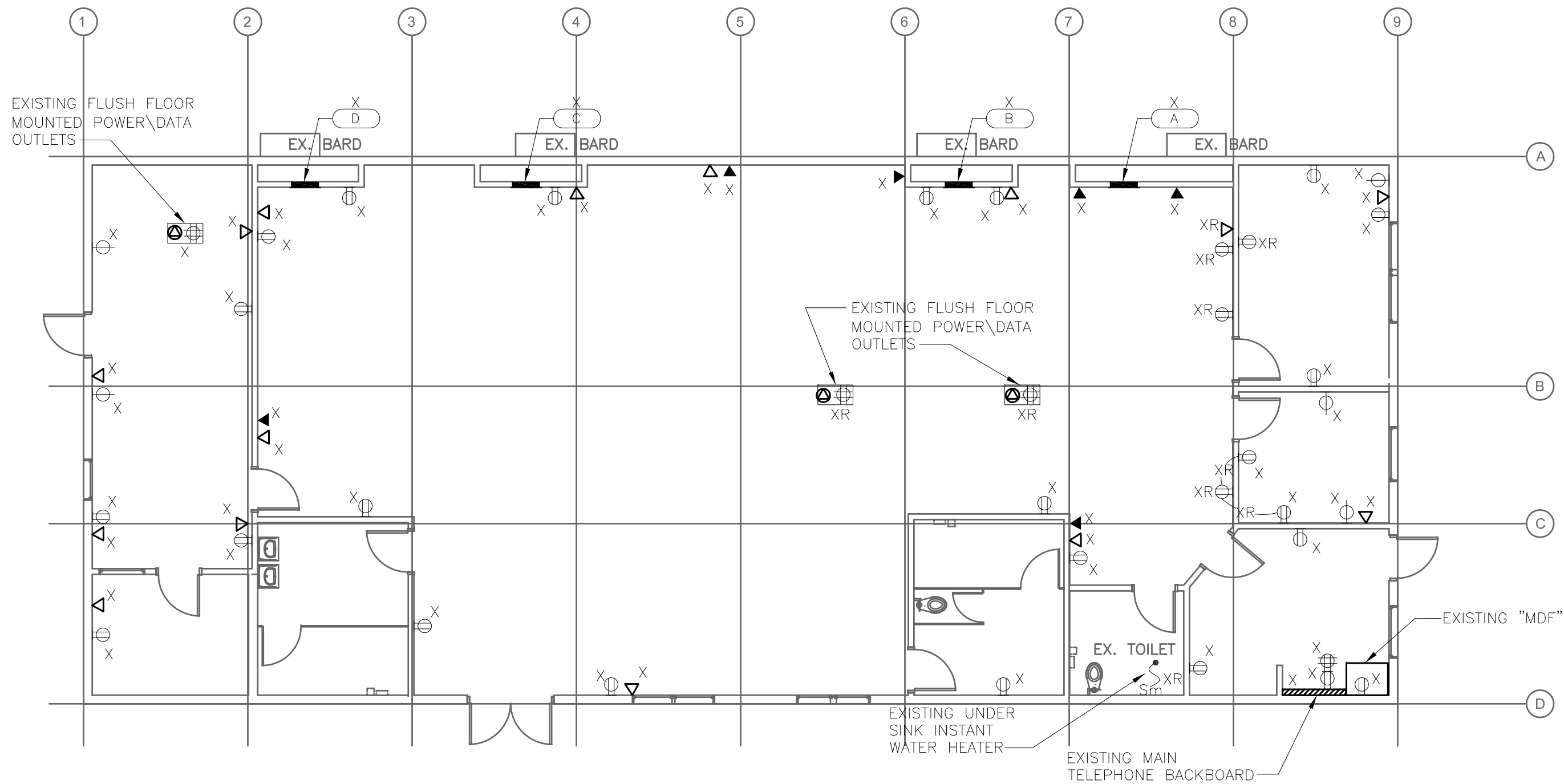


LIGHTING PLAN

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

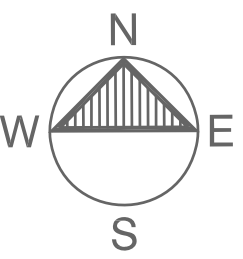


EXISTING PANELBOARD				PANEL "C"				MAIN BKR: 150A, 2P							
120/240 VOLTS				LOCATION CLASSROOM				150A A. BUSSING							
1 PHASE				FEEDER				ENTER CAB'T. AT							
3 WIRE								FLUSH MTG.							
LOCATION		VOLT AMPS # A # B		LTS OR LCL	REC	MIS	CIR	BKR	BKR	CIR	MIS	REC	LTS OR LCL	VOLT AMPS # A # B	LOCATION
RECEPTACLES	EXISTING LOAD	600	600	-	-	-	1	20/1	60	2	-	-	1	3350	AC UNIT
RECEPTACLES		600	600	-	-	-	5	20/1	30/1	6	-	-	1	2500	WCKT 2
LIGHTING		600	600	1	-	-	5	20/1	30/1	8	-	-	1	2500	HEAT STRIP
LIGHTING		300	600	1	-	-	7	20/1	30/1	8	-	-	1	2500	HEAT STRIP
LIGHTING		300	300	1	-	-	9	20/1	20/1	10	-	-	-	600	RECEPTACLES
LIGHTING		300	300	1	-	-	11	20/1	-	12	-	-	-	0	SPACE
RECEPTACLES	NEW LOAD	540	540	-	3	-	13	20/1	-	14	-	-	-	0	SPACE
RECEPTACLES	NEW LOAD	360	360	-	2	-	15	20/1	-	16	-	-	-	0	SPACE
SPACE		0	0	-	-	-	-	17	-	18	-	-	-	0	SPACE
SPACE		0	0	-	-	-	-	19	-	20	-	-	-	0	SPACE
SPACE		0	0	-	-	-	-	21	-	22	-	-	-	0	SPACE
SPACE		0	0	-	-	-	-	23	-	24	-	-	-	0	SPACE
SPACE		0	0	-	-	-	-	25	-	26	-	-	-	0	SPACE
SPACE		0	0	-	-	-	-	27	-	28	-	-	-	0	SPACE
SPACE		0	0	-	-	-	-	29	-	30	-	-	-	0	SPACE
# A = 8490 VOLT AMPS		# B = 7710 VOLT AMPS													
TOTAL CONNECTED LOAD: 16200 VA		OR 67.5 AMPS		@ 240 VOLTS - 1 ~											
LCL: 13500 VOLT AMPS x 125% = 16875 VOLT AMPS															
FDL: 16575 VOLT AMPS OR 69.5 AMPS															
● FURNISH AND INSTALL NEW CIRCUIT BREAKER TO MATCH EXISTING. SIZE AND NUMBER OF POLES AS NOTED.															

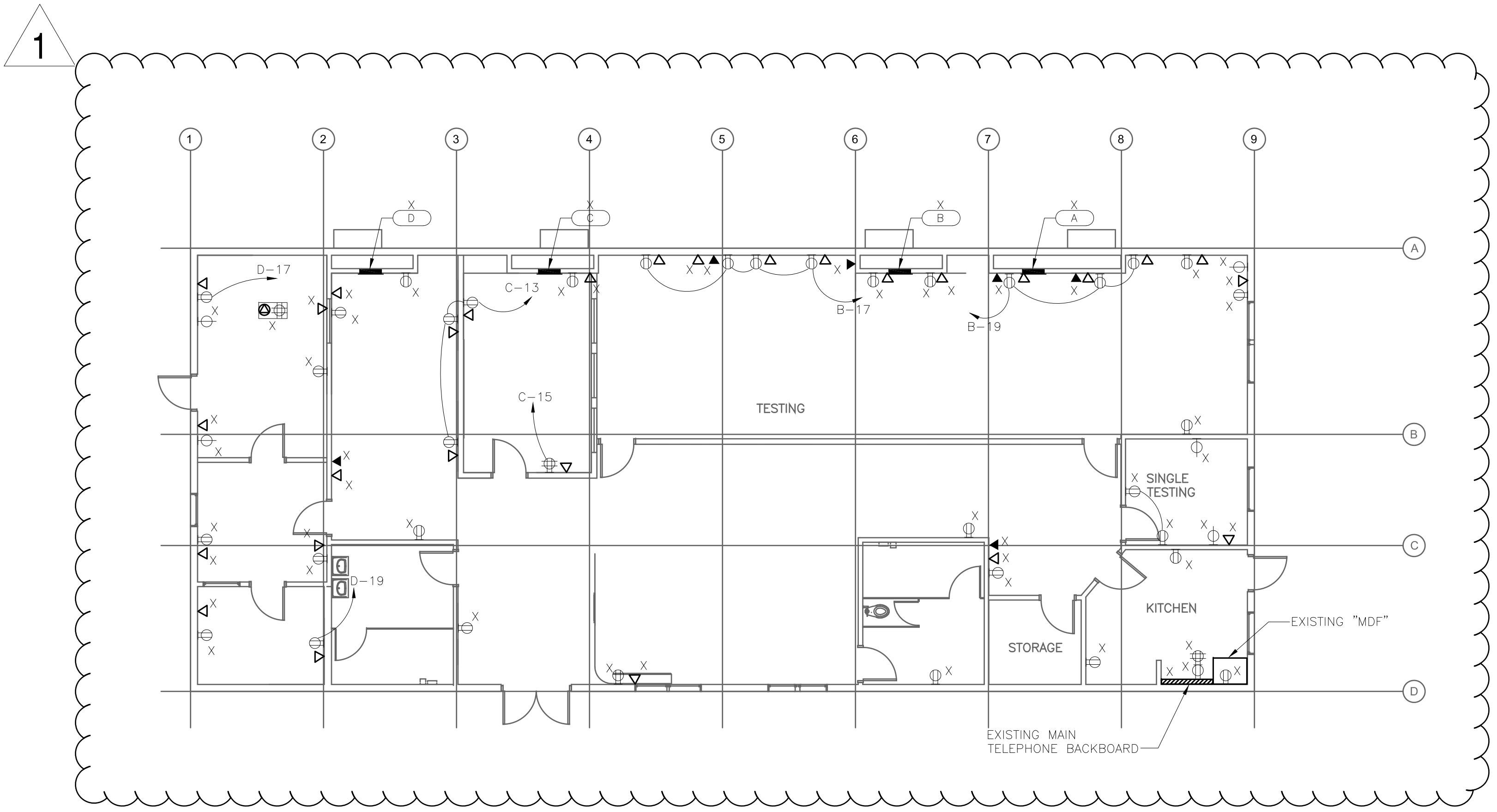


POWER/SIGNAL PLAN - DEMOLITION

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



EXISTING PANELBOARD				PANEL "D"				MAIN BKR: 150A,2P									
120/240 VOLTS				LOCATION CLASSROOM				150A A. BUSSING									
1 PHASE				FEEDER				ENTER CAB'T. AT									
3 WIRE								FLUSH MTG.									
LOCATION		VOLT	AMPS	LTS	REC	MIS	CIR	BKR		BKR	CIR	MIS	REC	LTS	VOLT	AMPS	LOCATION
		# A	# B	OR											# A	# B	
RECEPTACLES EXISTING LOAD		600	600	- - -	1	-	20/1		60	2	-	1	3350		AC UNIT	EXISTING LOAD	
RECEPTACLES		600	600	- - -	5	-	20/1		30/1	4	-	1	2500		HEAT STRIP		
RECEPTACLES		600	600	- - -	7	-	20/1		30/1	8	-	1	2500		HEAT STRIP		
LIGHTING		300	300	1	-	-	9	20/1	20/1	10	-	-	600		RECEPTACLES		
RECEPTACLES		300	300	1	-	-	11	20/1	20/1	12	-	-	600		RECEPTACLES		
RECEPTACLES		600	600	- - -	13	-	20/1		20/1	14	-	-	600		RECEPTACLES		
RECEPTACLES		600	600	- - -	15	-	20/1		20/1	14	-	-	600		RECEPTACLES		
RECEPTACLES NEW LOAD		180	180	-	1	-	17	20/1	-	18	-	-	0		SPACE		
RECEPTACLES NEW LOAD		180	180	-	1	-	19	20/1	-	20	-	-	0		SPACE		
SPACE		0	0	- - -	21	-	-	-	-	22	-	-	0		SPACE		
SPACE		0	0	- - -	23	-	-	-	-	24	-	-	0		SPACE		
SPACE		0	0	- - -	25	-	-	-	-	26	-	-	0		SPACE		
SPACE		0	0	- - -	27	-	-	-	-	28	-	-	0		SPACE		
SPACE		0	0	- - -	29	-	-	-	-	30	-	-	0		SPACE		
↓																	
# A = 9330 VOLT AMPS # B = 9330 VOLT AMPS																	
TOTAL CONNECTED LOAD: 18660 VA OR 77.8 AMPS @ 240 VOLTS - 1 ~																	
LCL: 12300 VOLT AMPS x 125% = 15375 VOLT AMPS																	
FDL: 21735 VOLT AMPS OR 90.6 AMPS																	
* FURNISH AND INSTALL NEW CIRCUIT BREAKER TO MATCH EXISTING. SIZE AND NUMBER OF POLES AS NOTED.																	



POWER/SIGNAL PLAN

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

