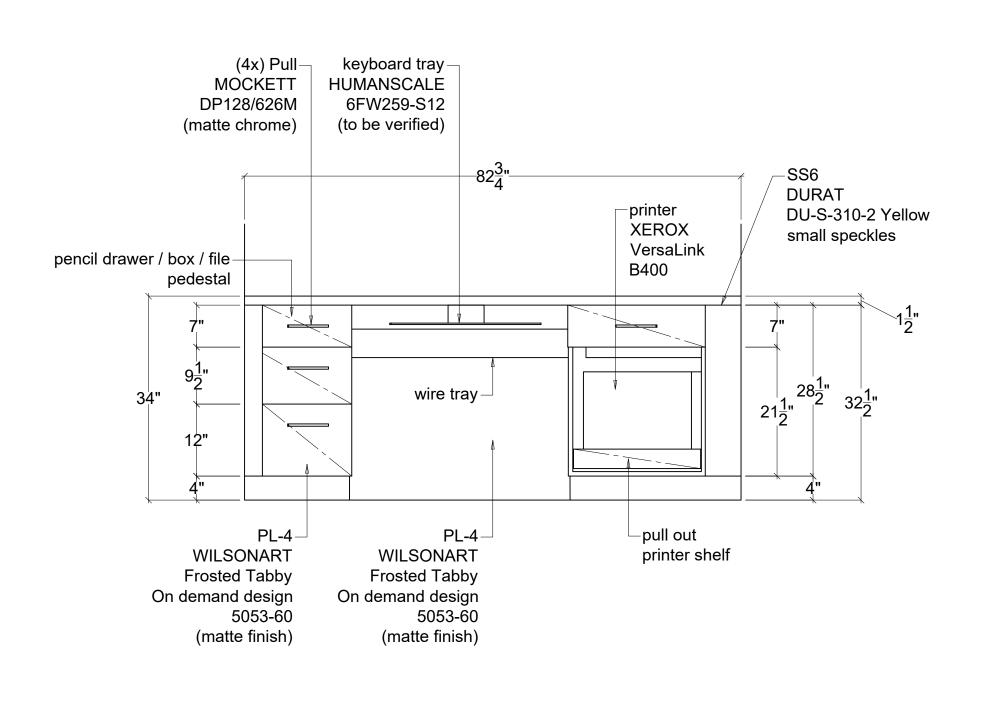


NAC NO 161-23025 DRAWN Author CHECKED Checker DATE 07/28/2025 CASEWORK -LEVEL 2

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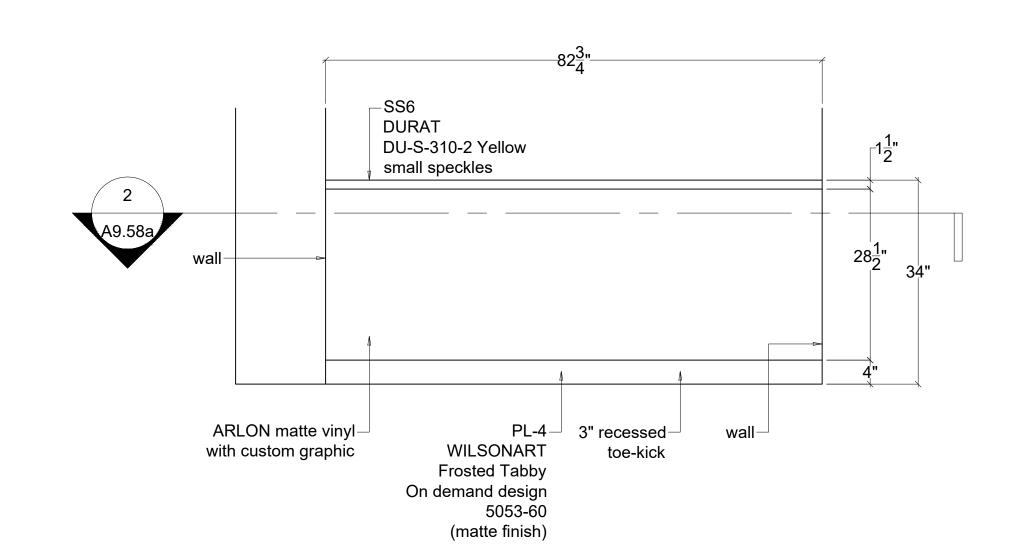
A9.58

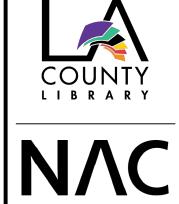


Ш ШП —Grommet hole for equipment. Coordinate exact location with client ### ## 83°" | 83°"

3 AIRC INFO DESK 201 - ELEVATION
Scale: 3/4" = 1'

AIRC INFO DESK 201 - PLAN
Scale: 3/4" = 1'





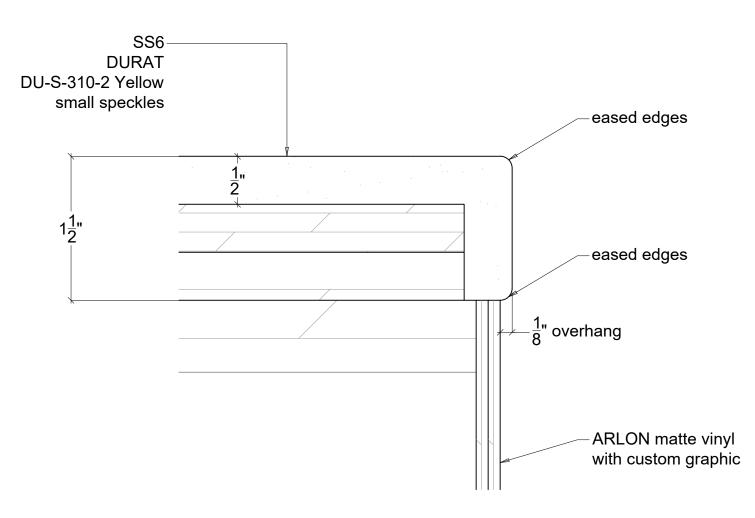
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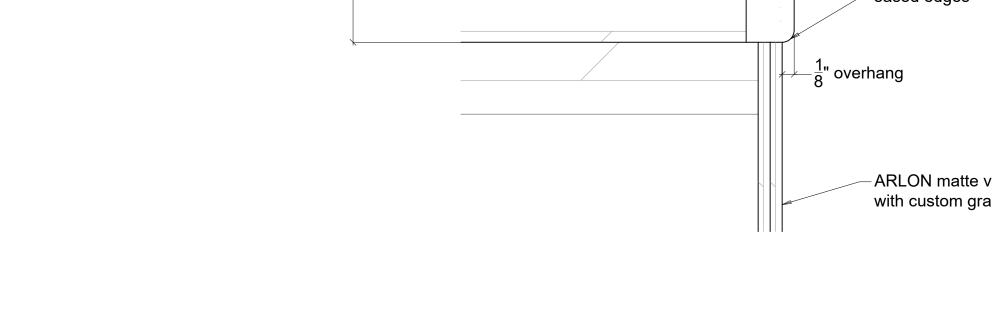
CASEWORK -LEVEL 2

AIRC INFO DESK 201

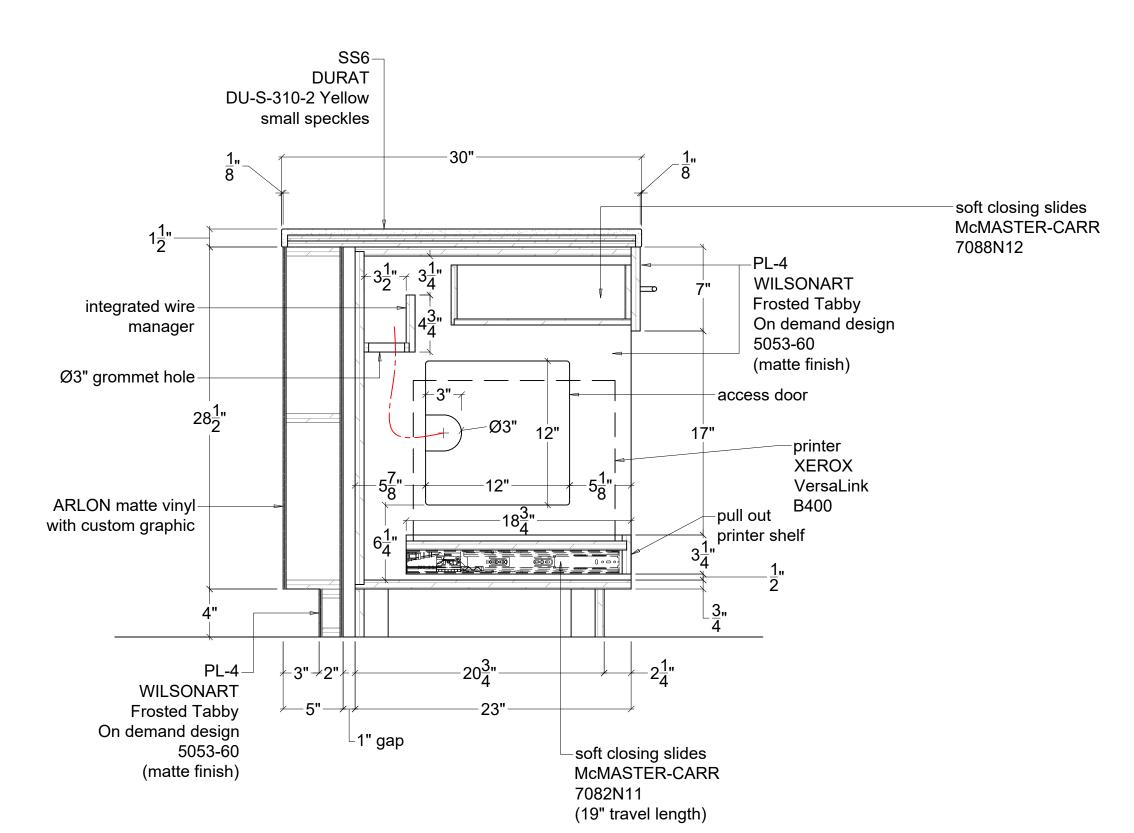
A9.58a

2 AIRC INFO DESK 201 - SECTION
Scale: 1 1/2" = 1'

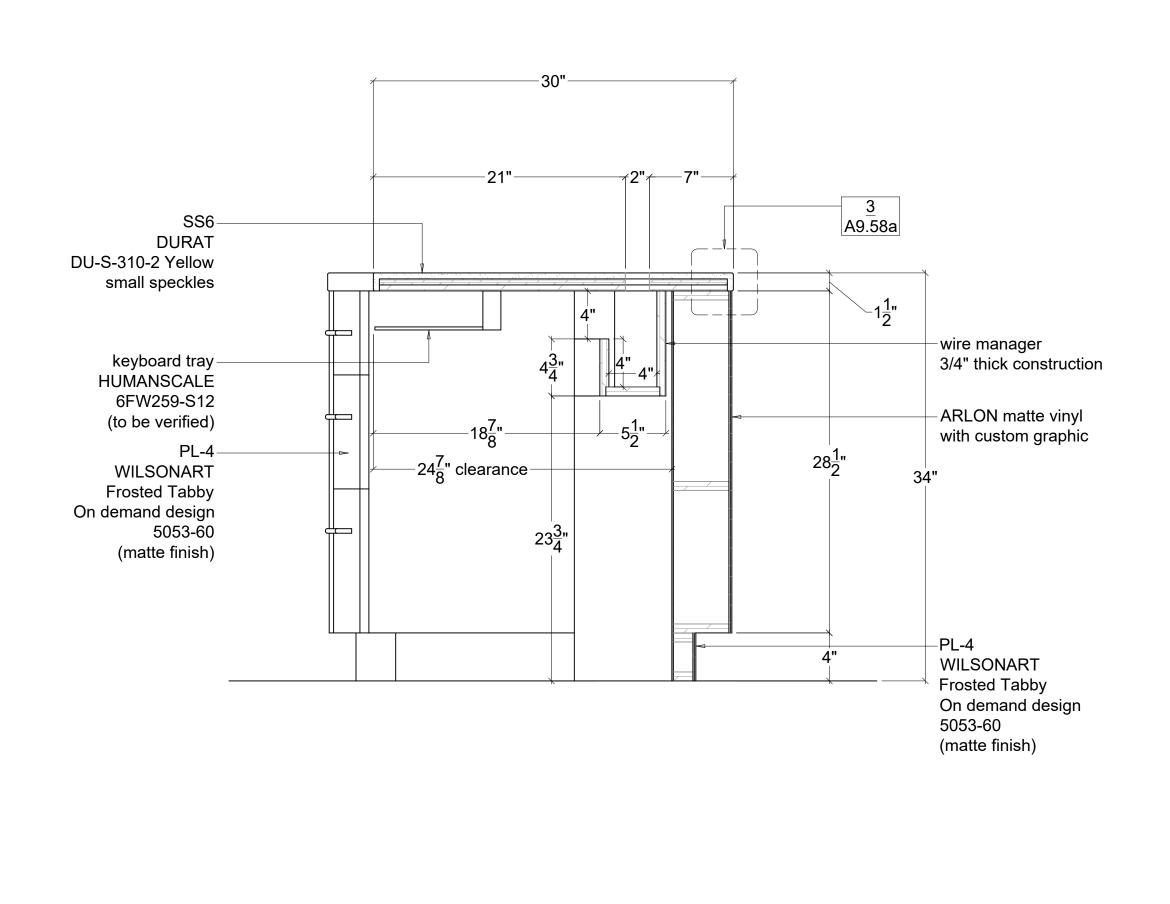


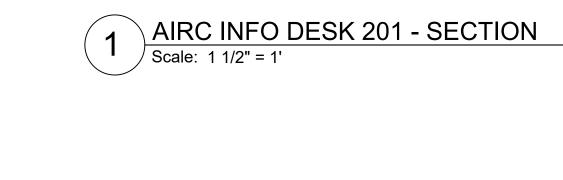


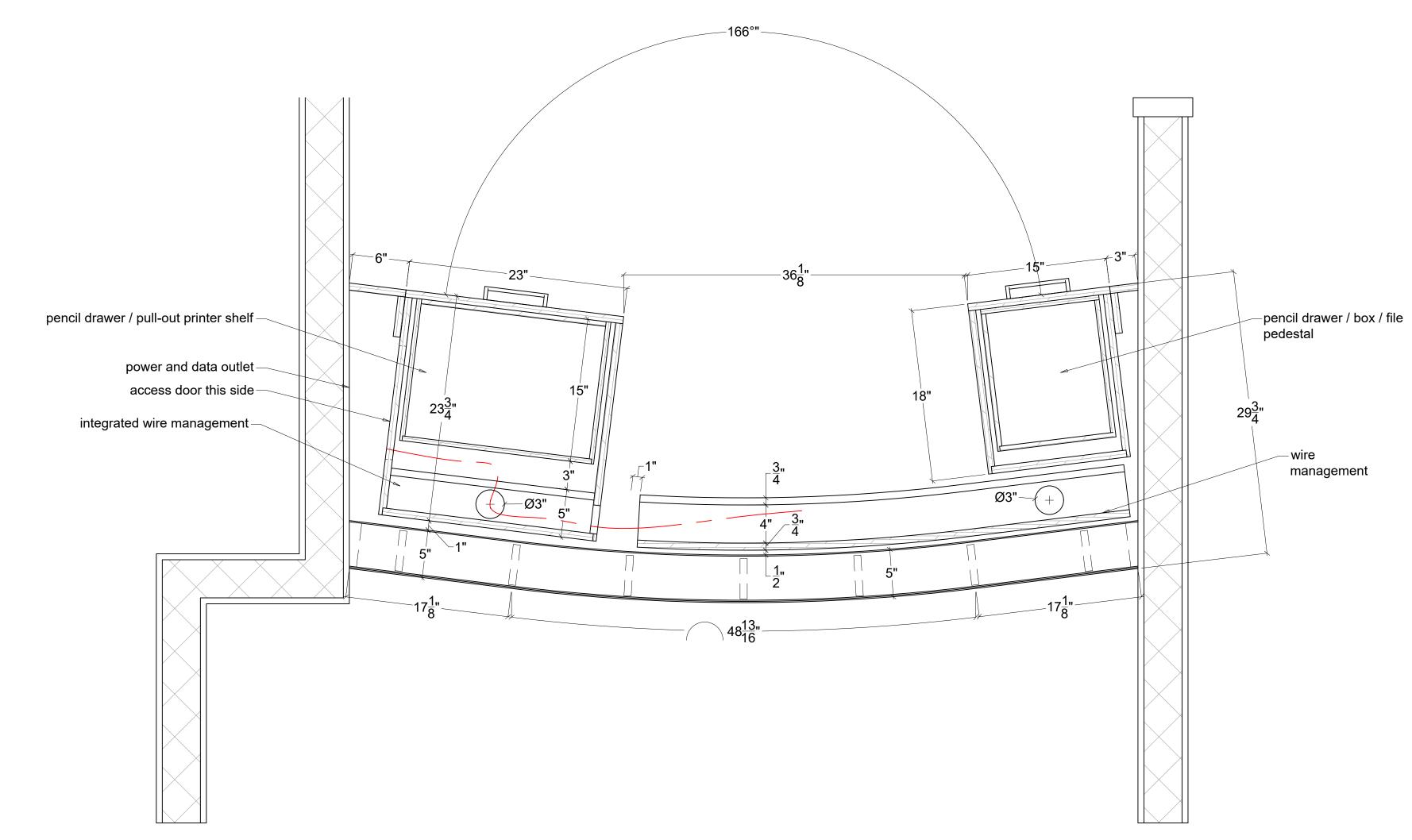
3 AIRC INFO DESK 201 - DETAIL
Scale: 1' = 1'











- STUD TOP CONNECTION

SUSPENDED ACT CEILING

- 3 5/8" MTL STUD FRAMING,

TYP OR AS INDICATED

- 5/8" TYPE X GYP BOARD

3"X3"X18" GAGE ANGLE,

PER WALL TYPE

PER 3/S8.01

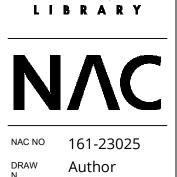
— ALUM EDGE TRIM

NOTE: T-BAR SUSPENSION GRID TO BE HEAVY DUTY

S

REVISIONS

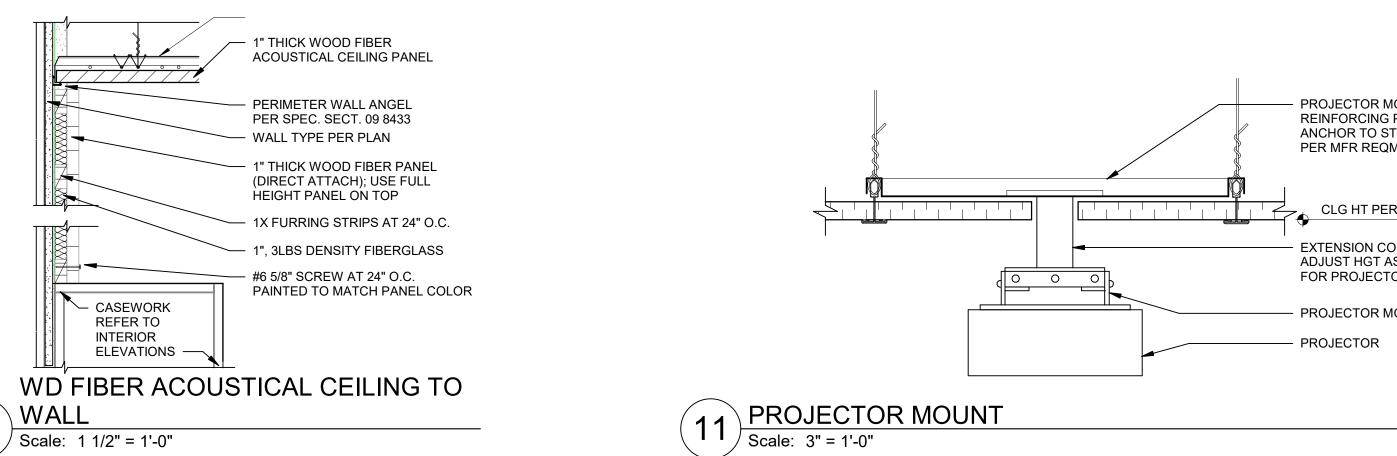




Checker Checker DATE 11/01/2024

CEILING DETAILS

A9.81

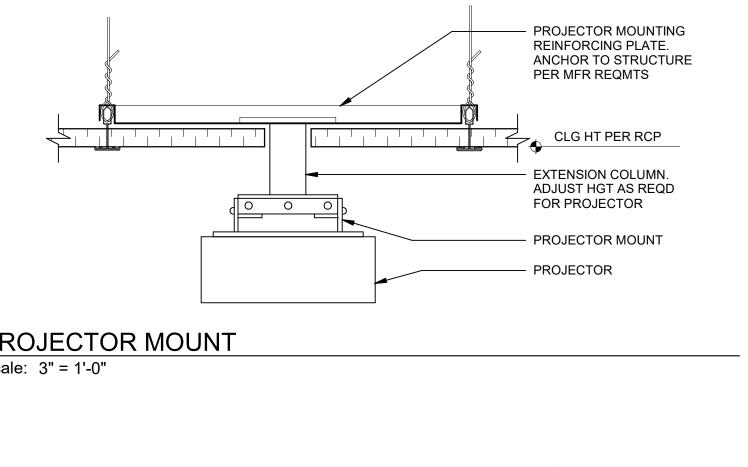


(1) #8 SMS TO WALL, (1) #8 SMS TO GRID

SLIP

ROOM

12 FLOOR
| Scale: 1 1/2" = 1'-0"



EXISTING CABLE TWISTED

LESSER OF 8" MAX OR

HANGER WIRE

7₋ (3) TURNS IN 3"

PERIMETER CLIP

SEISMIC

PERIMETER WALL

ANGLE SCREWED TO EACH STUD ———/

1" OR LESS OCCUR AT

1/4 RUNNER LENGTH

AROUND CHANNELS

GRID

TILES 1" OR LESS

TYPICAL PERIMETER DETAIL - 2ND

L USE 1"X2" PERIMETER USE 1"X2" PERIMETER ANGLE WHEN CUT ANGLE WHEN CUT TILES

OCCUR AT PERIMETER PERIMETER —

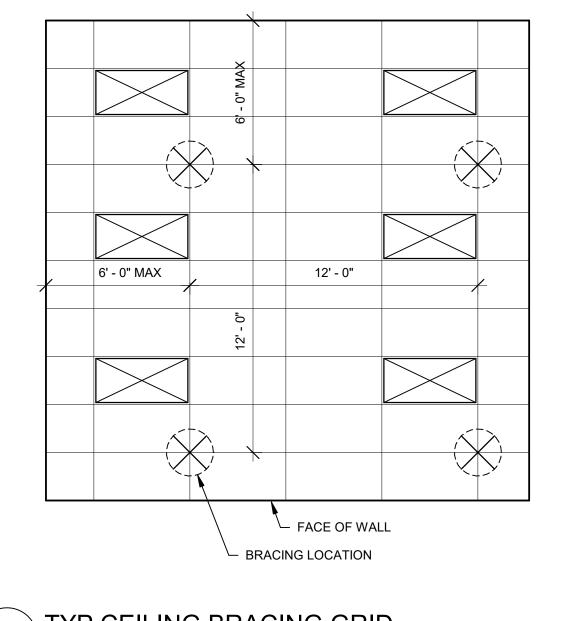
- EXISTING 3" COLD ROLLED STEEL

SCHEDULED

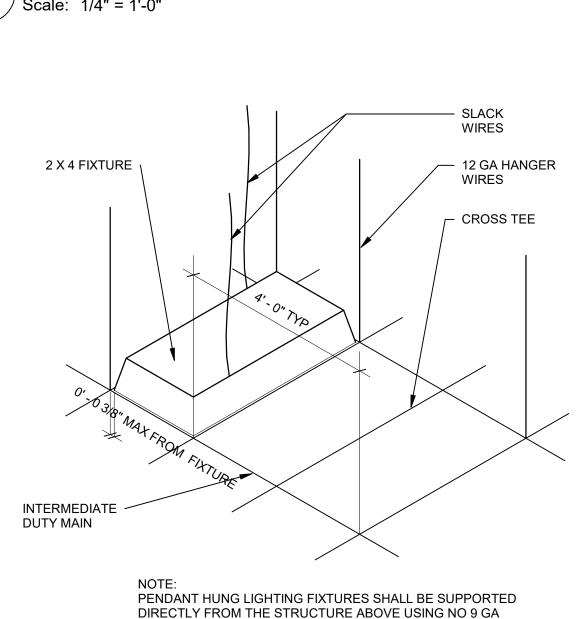
↓ CEILING HEIGHT = FACE OF GRID

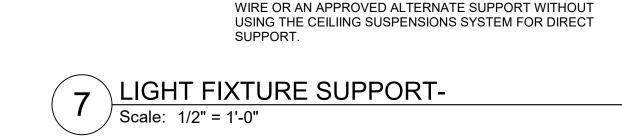
FREE SIDE

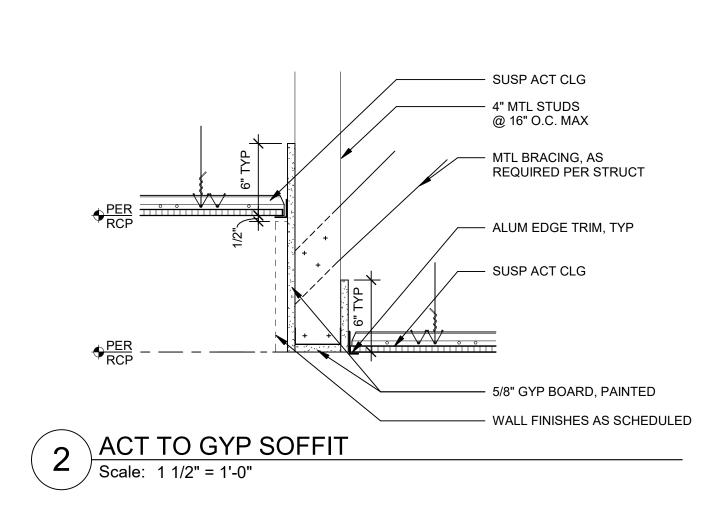
CHANNELS SECURED BY CABLE











<u>ISOMETRIC</u>

Scale: 3" = 1'-0"

SEE

3 ACT TO GYP CEILING SOFFIT
Scale: 1 1/2" = 1'-0"

PER RCP

WALL TYPE PER PLAN

TO WALL (C-7)

PER _ _ _ _ _ _ _ _ _ _ _ _

5 CL - ACT CLOUD EDGE CL-5
Scale: 1 1/2" = 1'-0"

(4) Scale: 11/2" = 1'-0"

— 1" THICK WOOD FIBER ACOUSTICAL CEILING PANEL

SUSP ACT CLG PER RCP/CEILING TYPE

METAL PERIMETER TRIM, PAINTED

 SUSP ACT CLG PER RCP/CEILING TYPE

TO MATCH LOWER CEILING TILE

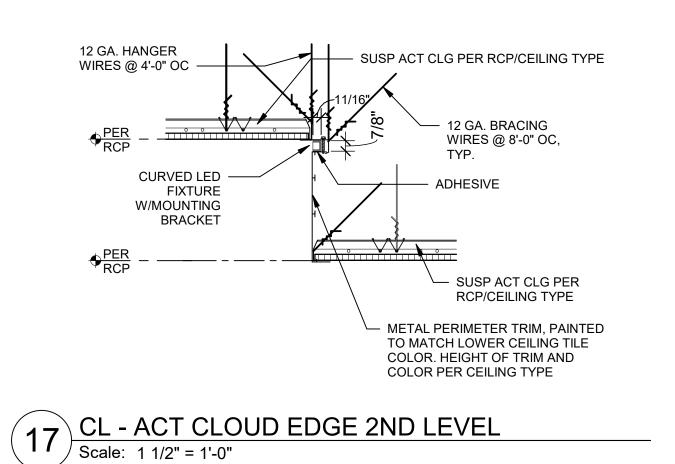
COLOR. HEIGHT OF TRIM AND

COLOR PER CEILING TYPE

FOR TRIM, REFER TO DETAIL 15/A9.81

WOOD FIBER ACOUSTICAL CEILING

STL STUD COMPRESSION POST SECURED ON STRUCTURE ABOVE W/ MECH FASTENER



CONT. 250U050-54

#10 SVS EA LEG EA JOIST

BRIDGING W/ #10 SMS @ EA. JOIST-SEE SCHEDULE

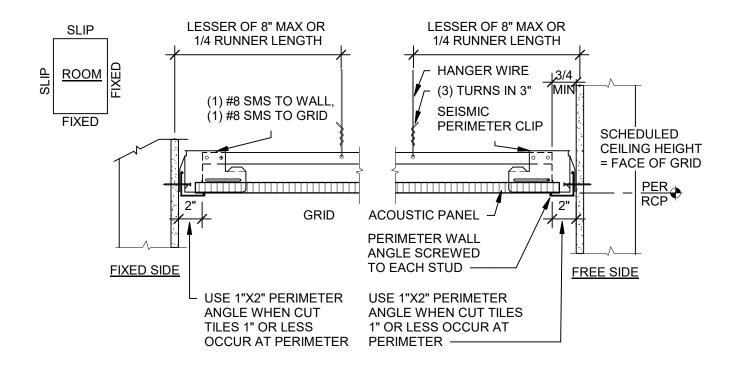
JOIST PER

JOIST BRIDGING

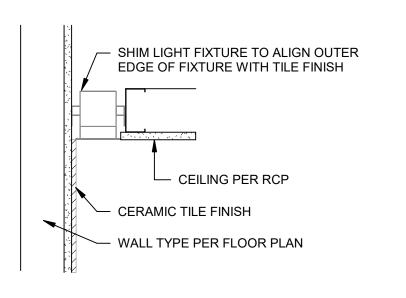
JOIST

TYPICAL STUD CEILING FRAMING

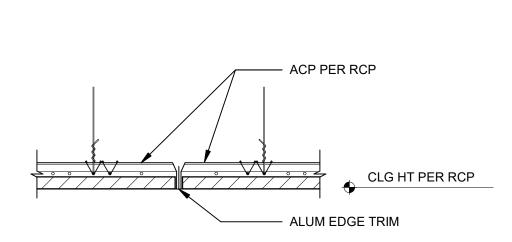
10'-0" 400S162-43@16"O.C. U.N.O. (1) ROW AT MIDSPAN



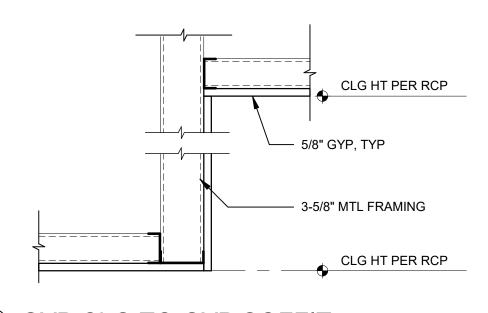


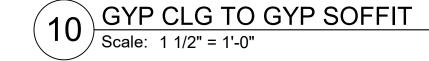


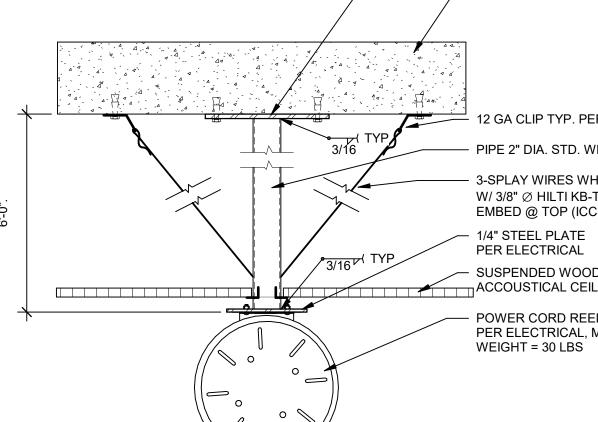






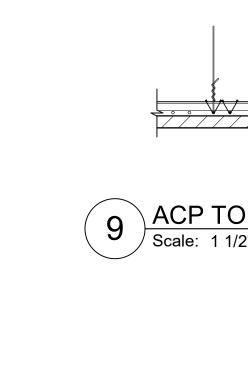


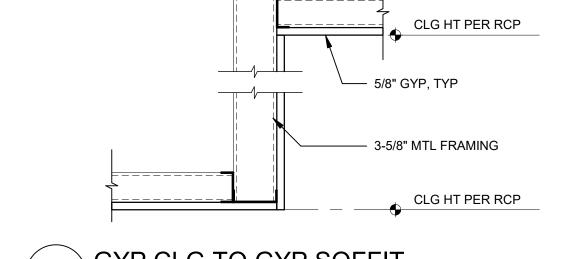




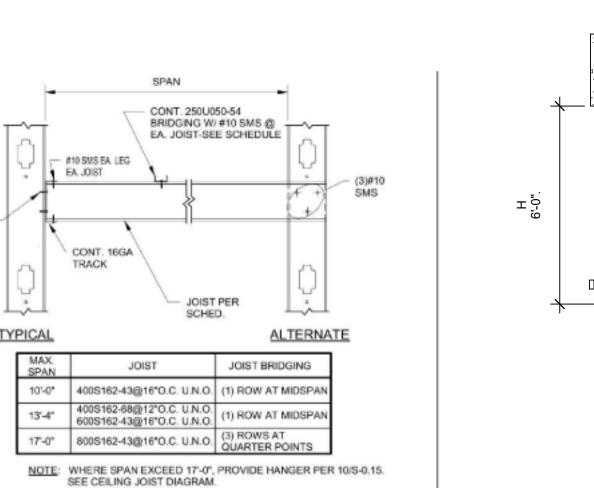
MAKER SPACE POWER CORD 14 ATTACHMENT DETAIL

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









15 GYP. CEILING JOIST DETAIL
Scale: 1 1/2" = 1'-0"

- WALL CEILING JOIST

PER SCHEDULE

PER 10/S-0.15

INDICATES HANGER

→ ₹}

17-0" MAX 17-0" MAX 17-0" MAX

CEILING JOIST DIAGRAM

7/16/2025 2:07:44 PM Autodesk Docs://161-23025 LADPW LAC Huntington Library Renovation/161-23025_Huntington-Park_Library.rvt

1 6 2

- EXISTING CONCRETE FLOOR 12 GA CLIP TYP. PER ELECTRICAL — PIPE 2" DIA. STD. WEIGHT - 3-SPLAY WIRES WHEN H>2'-0" W/ 3/8" Ø HILTI KB-TZ2 W/2" EMBED @ TOP (ICC ESR 4266) - SUSPENDED WOOD FIBER ACCOUSTICAL CEILING POWER CORD REEL PER ELECTRICAL, MAX WEIGHT = 30 LBS

- 1/4" STEEL PLATE PER

FLUTE (ICC ESR 4266)

ELECTRICAL, SPAN 3 FLUTES MIN ATTACH W/(4) - 3/8" Ø HILTI KB-TZ2 W/ 2" EMBED INTO LOWER





NAC NO 161-23025

DRAW Author

CHECKE Checker

DATE 11/01/2024

CEILING DETAILS

7/16/2025 2:07:45 PM Autodesk Docs://161-23025 LADPW LAC Huntington Library Renovation/161-23025_Huntington-Park_Library.rvt

SHEET INDEX, ABBREVIATIONS & SYMBOLS

DATE 11/01/2024

SYME	BOLS
X SX.X	SECTION REFERENCE BUBBLE
X SX.X	DETAIL REFERENCE BUBBLE WITH ARROW
(x)	DETAIL REFERENCE BUBBLE
X SX.X	FULL HEIGHT SECTION INDICATOR
X SX.X SX.X	BUILDING SECTION INDICATOR
X SX.X	ELEVATION OF WALL OR FRAME
N	NORTH ARROW
	SLOPE
	EARTH LAYER
	STEPPED SURFACE; FLOOR DEPRESSION
MATTITI	SLOPED SURFACE
	INDICATES SAND OR GROUT
8 0,8 0,8 0,8 0,8 0,8 0,8 0, 000 000 000 000 000 000 0	INDICATES GRAVEL
—×—×—×—×—	WELDED WIRE FABRIC (WWF LAYER)
	STEEL TUBE COLUMN
	STEEL PIPE COLUMN
Ţ	WIDE FLANGE STEEL COLUMN
Ţ	MEMBER SPLICE
<u>\</u>	STEEL IN CROSS SECTION
	DIRECTION OF SPAN

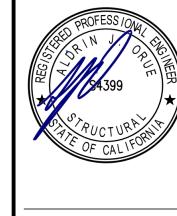
LAB	LABORATORY	AB	ANCHOR BOLT
LAB LB(S) OR #	POUND(S)	ACI	AMERICAN CONCRETE INSTITUTE
LF	LINEAL FOOT	ADDL	ADDITIONAL
LIN LLBB	LINEAL; LINEAR LONG LEGS BACK-TO-BACK	ADJ AESS	ADJACENT ARCHITECTURAL EXPOSED STRUCTURAL STEEL
LLH	LONG LEGS BACK-TO-BACK LONG LEG HORIZONTAL	AGGR	AGGREGATE
LLV	LONG LEG VERTICAL	AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
LP LSL	LOW POINT LONG SLOTTED HOLES	ALT ALUM	ALTERNATE ALUMINUM
LT WT	LIGHTWEIGHT	ANCH	ANCHOR
LVL	LEVEL	ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
MAS MATL	MASONRY MATERIAL	APA APPVD	AMERICAN PLYWOOD ASSOCIATION APPROVED
MAX	MAXIMUM	APPROX	APPROXIMATE
MB	MACHINE BOLT	ARCH	ARCHITECTURAL; ARCHITECT
MC MECH	MISCELLANEOUS CHANNEL SHAPE MECHANICAL	ASTM AWPA	AMERICAN SOCIETY FOR TESTING AND MATERIALS AMERICAN WOOD PRESERVERS ASSOCIATION
MFR	MANUFACTURER	AWS	AMERICAN WELDING SOCIETY
MIN MISC	MINIMUM; MINUTE	AITC	AMERICAN INSTITUTE OF TIMBER CONSTRUCTION
(N)	MISCELLANEOUS NEW	ASTM &	AMERICAN SOCIETY FOR TESTING MATERIALS AND
N	NORTH	@	AT
NF NIC	NEAR FACE NOT IN CONTRACT	BLDG	BUILDING
NORM	NORMAL	BLK BLKG	BLOCK BLOCKING
NO or #	NUMBER	BM	BEAM
NS NTS	NEAR SIDE NOT TO SCALE	BN	BOUNDARY NAIL
OC	ON CENTER	BNDRY BOT OR B	BOUNDARY BOTTOM
OD	OUTSIDE DIAMETER	BRC	BRACE
OF OH	OUTSIDE FACE OPPOSITE HAND	BRG	BEARING
OPNG	OPENING	BT BTWN	BENT BETWEEN
OPP	OPPOSITE	CANT	CANTILEVER
ORIG OSB	ORIGINAL ORIENTED STRAND BOARD	CAM OR C	CAMBER CENTED TO CENTED
PARA OR //	PARALLEL	CC CG	CENTER TO CENTER CENTER OF GRAVITY
PC	PRECAST; PIECE	CIP	CAST-IN-PLACE
PERP PI	PERPINDICULAR PLYWOOD INDEX	Cl	CONSTRUCTION JOINT; CONTROL JOINT
PL PL	PLATE	CL CLR	CENTER LINE CLEARANCE; CLEAR
PL	PROPERTY LINE	CMU	CONCRETE MASONRY UNIT
PLF PLCS	POUNDS PER LINEAL FOOT PLACES-	COL COMP	COLUMN COMPRESSION
PLY	PLYWOOD	CONC	CONCRETE
PROP	PROPERTY	CONN	CONNECTION; CONNECT
PT PW	POST TENSIONED PLATE WASHER	CONSTR	CONSTRUCTION
PJP	PARTIAL JOINT PENETRATION WELD	CONT CONTR	CONTINUE; CONTINUOUS CONTRACTOR
PREFAB	PREFABRICATED	CJP	COMPLETE JOINT PENETRATION WELD
PSF PSI	POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH	CTR	CENTER COUNTERCONS, COUNTERCUNIC
PVC	POLYVINYL CHLORIDE	CTSK CU FT	COUNTERSINK; COUNTERSUNK CUBIC FOOT
PVMT	PAVEMENT	d	PENNY (NAIL OR BAR DIA)
# REF	POUND; NUMBER REFERENCE	DBL	DOUBLE
REINF	REINFORCE; REINFORCING	DEPT DET	DEPARTMENT DETAIL
REQD	REQUIRED	DF	DOUGLAS FIR/LARCH
RF	ROOF	DIA OR Ø DIAG	DIAMETER DIAGONAL
Ø SCHED	DIAMETER SCHEDULE	DIAG	DIAPHRAGM
SECT	SECTION	DIM	DIMENSION
SEP	SEPERATION	DN DO	DOWN
SHT SHTG	SHEET SHEATHING	DWG	DITTO (REPEAT) DRAWING
SIM	SIMILAR	DWL	DOWEL
SLBB	SHORT LEGS BACK-TO-BACK	EA EF	EACH EACH FACE
SOG SPCG	SLAB ON GRADE SPACING	EJ	EXPANSION JOINT
SPECS	SPECIFICATIONS	EL	ELEVATION
SPCL	SPECIAL	ELEC ELEV	ELECTRICAL ELEVATOR
SQ SS	SQUARE SELECT STRUCTURAL	EMBED	EMBEDMENT
SSL	SHORT SLOTTED HOLES	EN	EDGE NAIL
STAGG	STANDARD	ENGR EQ	ENGINEER EQUAL OR EQUIVALENT
STD STIFF	STANDARD STIFFENERS	EQUIP	EQUIPMENT
STIRR	STIRRUP	ES	EACH SIDE
STL	STEEL	ETC EW	ET CETERA EACH WAY
STRUCT STRUCT I	STRUCTURAL STRUCTURAL I	EXIST or (E)	EXISTING
SW	SHEAR WALL	EXT	EXTERIOR
SYM	SYMMETRICAL	FDN FF	FOUNDATION FAR FACE
TB T&B	TIE BEAM TOP AND BOTTOM	FF	FINISHED FLOOR
T&G	TONGUE & GROOVE	FIN	FINISH
TOC	TOP OF CURB; TOP OF CONCRETE	FJ FL	FLOOR JOIST FLOOR LINE
TOF	TOP OF CURB; TOP OF CONCRETE TOP OF FOOTING	FLG	FLANGE
TEMP	TEMPERATURE; TEMPORARY	FLR	FLOOR
THRU THK	THROUGH THICKNESS/THICK	FN FOC	FIELD NAIL FACE OF CONCRETE
THR	THREADED	FOM	FACE OF MASONARY
TOP or T	TOP	FOS	FACE OF STUD
TOS TOW	TOP OF STEEL/TOP OF SLAB TOP OF WALL	FOW FP	FACE OF WALL FULL PENETRATION; FIRE PROOFING
TSG	TAPERED STEEL GIRDER	FRMG	FRAMING
TYP	TYPICAL	FS	FULL SIZE; FAR SIDE
UBC UNO	UNIFORM BUILDING CODE UNLESS NOTED OTHERWISE	FT FTG	FOOT; FEET FOOTING
UT	ULTRA-SONIC TEST	GA	GAUGE
VERT	VERTICAL	GALV	GALVANIZED CRADE REAM
VSH W/	VERTICAL SLOTTED HOLES WITH	GB GLB	GRADE BEAM GLUED LAMINATED BEAM
W/O	WITHOUT	GR	GRADE
WD WB	WOOD	GRND	GROUND HORIZONTAL
WP		H or HORIZ	HORIZONTAL HEADER
WT	WORK POINT; WATERPROOF WEIGHT	HDR	
WT WWF		HDR HGR	HANGER
	WEIGHT	HGR HOSP	HOSPITAL
	WEIGHT WELDED WIRE FABRIC	HGR	
WWF STRUCTURAL STEE	WEIGHT WELDED WIRE FABRIC EL SHAPES W SHAPE	HGR HOSP HP HS HSH	HOSPITAL HIGH POINT HIGH STRENGTH HORIZONTALLY SLOTTED HOLES
WWF STRUCTURAL STEE Wx Cx	WEIGHT WELDED WIRE FABRIC EL SHAPES W SHAPE AMERICAN STD CHANNEL SHAPE	HGR HOSP HP HS HSH HT	HOSPITAL HIGH POINT HIGH STRENGTH HORIZONTALLY SLOTTED HOLES HEIGHT
WWF STRUCTURAL STEE	WEIGHT WELDED WIRE FABRIC EL SHAPES W SHAPE	HGR HOSP HP HS HSH	HOSPITAL HIGH POINT HIGH STRENGTH HORIZONTALLY SLOTTED HOLES
WWF STRUCTURAL STEE Wx Cx MC Lx WT, ST, MT	WEIGHT WELDED WIRE FABRIC EL SHAPES W SHAPE AMERICAN STD CHANNEL SHAPE MISC CHANNEL SHAPE ANGLE SHAPE STRUCT TEE SHAPE	HGR HOSP HP HS HSH HT HR	HOSPITAL HIGH POINT HIGH STRENGTH HORIZONTALLY SLOTTED HOLES HEIGHT HARD ROCK INSIDE DIAMETER INSIDE FACE
WWF STRUCTURAL STEE Wx Cx MC Lx WT, ST, MT PIPE	WEIGHT WELDED WIRE FABRIC EL SHAPES W SHAPE AMERICAN STD CHANNEL SHAPE MISC CHANNEL SHAPE ANGLE SHAPE STRUCT TEE SHAPE STANDARD PIPE SHAPE	HGR HOSP HP HS HSH HT HR ID IF	HOSPITAL HIGH POINT HIGH STRENGTH HORIZONTALLY SLOTTED HOLES HEIGHT HARD ROCK INSIDE DIAMETER INSIDE FACE I-JOIST
WWF STRUCTURAL STEE Wx Cx MC Lx WT, ST, MT	WEIGHT WELDED WIRE FABRIC EL SHAPES W SHAPE AMERICAN STD CHANNEL SHAPE MISC CHANNEL SHAPE ANGLE SHAPE STRUCT TEE SHAPE	HGR HOSP HP HS HSH HT HR	HOSPITAL HIGH POINT HIGH STRENGTH HORIZONTALLY SLOTTED HOLES HEIGHT HARD ROCK INSIDE DIAMETER INSIDE FACE
WWF STRUCTURAL STEE Wx Cx MC Lx WT, ST, MT PIPE PIPE-X	WEIGHT WELDED WIRE FABRIC EL SHAPES W SHAPE AMERICAN STD CHANNEL SHAPE MISC CHANNEL SHAPE ANGLE SHAPE STRUCT TEE SHAPE STANDARD PIPE SHAPE EXTRA STRONG PIPE SHAPE	HGR HOSP HP HS HSH HT HR ID IF I-JST IN INCL INFO	HOSPITAL HIGH POINT HIGH STRENGTH HORIZONTALLY SLOTTED HOLES HEIGHT HARD ROCK INSIDE DIAMETER INSIDE FACE I-JOIST INCH INCLUDE INFORMATION
WWF STRUCTURAL STEE Wx Cx MC Lx WT, ST, MT PIPE PIPE-X PIPE-XX	WEIGHT WELDED WIRE FABRIC EL SHAPES W SHAPE AMERICAN STD CHANNEL SHAPE MISC CHANNEL SHAPE ANGLE SHAPE STRUCT TEE SHAPE STRUCT TEE SHAPE STANDARD PIPE SHAPE EXTRA STRONG PIPE SHAPE DBL EXTRA STRONG PIPE SHAPE	HGR HOSP HP HS HSH HT HR ID IF I-JST IN	HOSPITAL HIGH POINT HIGH STRENGTH HORIZONTALLY SLOTTED HOLES HEIGHT HARD ROCK INSIDE DIAMETER INSIDE FACE I-JOIST INCH INCLUDE

JOINT

KIPS PER SQUARE INCH

ABBREVIATIONS

SHEET NO. SHEET NAME S0.00 SHEET INDEX, ABBREVIATIONS & SYMBOLS S0.01 STRUCTURAL GENERAL NOTES S0.02 TESTING, SPECIAL INSPECTIONS, AND OBSERVATIONS LEVEL 1 FLOOR PLAN S3.01 S3.02 LEVEL 2 FLOOR PLAN S3.03 S3.04 LEVEL 3 FLOOR PLAN ROOF FRAMING PLAN S3.20 SECOND FLOOR - REFLECTED CEILING PLAN S4.00 EXTERIOR ELEVATIONS S5.00 **BUILDING SECTIONS** S6.00 TYPICAL CONCRETE DETAILS S6.01 TYPICAL CONCRETE DETAILS S7.00 TYPICAL STEEL FRAMING DETAILS S7.01 TYPICAL STEEL FRAMING DETAILS S7.02 TYPICAL STEEL FRAMING DETAILS S8.00 TYPICAL INTERIOR METAL STUD WALL DETAILS TYPICAL INTERIOR METAL STUD WALL DETAILS S8.02 TYPICAL INTERIOR METAL STUD WALL DETAILS CEILING RETROFIT DETAILS ABOVE LEVEL 2 S9.00 S10.00 SHELVING ANCHORAGE DETAILS



GENERAL NOTES

- 1. STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED BY AN APPROVED AND LICENSED FABRICATOR IN ACCORDANCE WITH THE AISC SPECIFICATION FOR DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS (LATEST EDITION), AND WITH CHAPTER 22A OF THE CODE.
- 2. ALL STRUCTURAL STEEL SHALL CONFORM WITH THE ASTM DESIGNATION AS INDICATED BELOW (UNO):

WF SHAPES, WT SHAPES A992 OR A572, GRADE 50 (MULTI CERT)

PLATES, CONNECTION PLATES, A-36, UNO AND MISC, UNO. PIPE COLUMNS A-53, GRADE B TUBE SECTIONS A-500, GRADE B A-325 / A-490, AS NOTED ON DWGS

ANCHOR BOLTS IN CONCRETE/MASONRY F-1554, GRADE 36 ANGLES, CHANNELS

- 3. THE STRUCTURAL STEEL FABRICATOR SHALL FURNISH SHOP DRAWINGS TO THE ARCHITECT OF ALL STEEL FOR ARCHITECTS AND STRUCTURAL ENGINEERS TO REVIEW AND APPROVAL BEFORE FABRICATION.
- 4. BOLT HOLES USED IN STEEL SHALL BE 1/16" LARGER IN DIAMETER THAN NORMAL SIZE OF BOLT USED, EXCEPT AS NOTED.
- 5. ALL STRUCTURAL STEEL SURFACES THAT ARE ENCASED IN CONCRETE, OR MASONRY, SPRAY ON FIREPROOFING, OR ARE ENCASED BY BUILDING FINISH, SHALL BE LEFT
- ALL WELDING IS TO BE DONE BY CERTIFIED WELDERS USING E70XX ELECTRODES (UNO). ALL WELDS SHALL BE IN CONFORMITY WITH THE PROJECTS SPECIFICATIONS AND FOR THE CODE FOR WELDING IN BUILDING CONSTRUCTION (AWS D1.1 LATEST REVISION) OF THE AMERICAN WELDING SOCIETY. SEE SPECIAL INSPECTIONS SECTION FOR WELDING INSPECTION REQUIREMENTS.
- 7. WELD LENGTHS CALLED FOR ON PLANS ARE THE NET EFFECTIVE LENGTH REQUIRED. WHERE FILLET WELD SYMBOL IS GIVEN WITHOUT INDICATION OF SIZE, USE MINIMUM SIZE WELDS AS SPECIFIED IN AISC MANUAL OF STEEL CONSTRUCTION, CHAPTER J, LATEST
- 8. ALL STRUCTURAL STEEL AND MISCELLANEOUS METAL EXPOSED TO THE WEATHER SHALL BE HOT DIP GALVANIZED AFTER FABRICATION, UNLESS NOTED OTHERWISE ON THE CONSTRUCTION DOCUMENTS. REFER TO ARCH DRAWINGS FOR STEEL FINISH. PROTECT FIELD WELDS EXPOSED TO THE WEATHER SHALL RECEIVE PRIME AND PAINT OR BRUSH / COLD GALVANIZING. FOR EXPOSED STRUCTURAL STEEL CALLED OUT TO RECEIVE COATINGS SEE SPECIFICATION 05 1200 FOR PREPARATION AND PRIMING.
- 9. THE USE OF E70T-4 WELDING WIRE IS NOT PERMITTED.
- 10. ALL WELD FILLER MATERIAL SPECIFIED AS "NOTCH TOUGH" SHALL HAVE A MINIMUM CHARPY-V NOTCH (CVN) VALUE OF 20 FT-LBS AT A TEMPERATURE OF -20° F.
- 11. 100% UT TEST FOR ALL COMPLETE PENETRATION GROOVE WELDS.
- 12. DISCONTINUITIES IN WELD CREATED BY ERRORS OR BY FABRICATION OR ERECTION OPERATIONS, SUCH AS TACK WELDS, ERECTION AIDS, AIR ARC GOUGING AND FLAME CUTTING, SHALL BE REPAIRED AS REQUIRED BY THE ENGINEER OF RECORD.
- 13. WRITTEN WELDING PROCEDURE SPECIFICATIONS (WPS) PER THE RECOMMENDATIONS OF THE AMERICAN WELDING SOCIETY (AWS) SHALL BE DEVELOPED BY THE FABRICATOR/ERECTOR AND SUBMITTED FOR REVIEW TO THE ENGINEER PRIOR TO ANY WELDING OF THE STRUCTURAL STEEL. THE WELDING PROCEDURES SHALL INCLUDE ALL THE WELDED JOINTS AND CONFIGURATIONS TO BE USED ON THIS PROJECT-ONLY WPS WHICH ARE RELEVANT TO THIS PROJECT SHALL BE SUBMITTED, ALL WELDED JOINTS SHALL BE PRE-QUALIFIED PER AWS OR BE QUALIFIED BY TEST PER AWS. A PROCEDURE QUALIFICATION RECORD (PQR) SHALL BE INCLUDED WITH THE WPS IF THE WELDING PROCEDURE OR JOINT IS QUALIFIED BY TESTING. THE ELECTRODE MANUFACTURER ANI PRODUCT/TRADE NAME SHALL BE IDENTIFIED IN THE WPS IN ADDITION TO THE AWS ELECTRODE CLASSIFICATION NAME. A COPY OF THE ELECTRODE MANUFACTURER'S TECHNICAL DATA SHEETS WITH THE RECOMMENDED WELDING PARAMETERS SHALL BE SUBMITTED WITH THE WPS.

POWER DRIVEN FASTENERS / SHOT PINS

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- 1. ALL POWDER DRIVEN FASTENERS SHALL CONSIST OF SIMPSON 0.157Ø PDPA (ICC ESR-2138) LOW VELOCITY POWDER DRIVEN FASTENERS. INSTALLATION OF ANCHORS SHALL BE IN CONFORMANCE WITH THE ICC REPORT AND MANUFACTURER RECOMMENDATIONS.
- 2. WHEN INSTALLING POWDER DRIVEN FASTENERS IN NON-PRESTRESSED REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE REINFORCING
- 3. THE SPECIAL INSPECTOR MUST BE ON THE JOBSITE CONTINUOUSLY DURING ANCHOR INSTALLATION TO VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, CONCRETE TYPE, CONCRETE COMPRESSIVE STRENGTH, ANCHOR SPACING, EDGE DISTANCES, SLAB THICKNESS AND ANCHOR EMBEDMENT.
- 4. POWDER DRIVEN FASTENERS ARE NOT PERMITTED FOR USE ON CONCRETE CURBS.
- 5. FASTENERS MAY BE USED FOR SHEAR LOADS AND THEY MAY BE USED IN TENSION TO SUPPORT LOADS LESS THAN 100 POUNDS FOR MINOR LOADS LIKE ACOUSTICAL CEILINGS, DUCT WORK, CONDUIT, ETC.
- 6. THE ALLOWABLE LOADS SHALL BE 100 POUNDS OR 80% OF ICC EVALUATION REPORT APPROVED VALUES, WHICHEVER IS LESS, QUALIFICATION FOR USE OF ALL POWER ACTUATED TOOLS MUST MEET ANSI A10.3 STANDARD AS REQUIRED BY THE MANUFACTURER AND ALL OSHA REQUIREMENTS.
- 7. TESTING THE OPERATOR, TOOL AND FASTENER SHALL BE PRE-QUALIFIED BY THE PROJECT INSPECTOR. THE INSPECTOR SHALL OBSERVE THE TESTING OF THE FIRST 10 FASTENER INSTALLATIONS. A TEST "PULL-OUT" LOAD OF NOT LESS THAN TWICE THE DESIGN LOAD SHALL BE APPLIED TO THE PIN IN SUCH A MANNER AS NOT TO RESIST THE SPALLING TENDENCY OF THE CONCRETE SURROUNDING THE PIN. THEREAFTER RANDOM TESTS UNDER THE PROJECT INSPECTOR'S SUPERVISION SHALL BE MADE OF APPROXIMATELY 1 IN 10 PINS. IF ANY PIN FAILS TESTING, TEST ALL PINS OF THE SAME CATEGORY NOT PREVIOUSLY TESTED UNTIL TWENTY (20) CONSECUTIVE PASS, THEN RESUME THE INITIAL TESTING FREQUENCY.

REINFORCING STEEL

- 1. REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF CHAPTER 19A OF THE CODE, ASTM A615, GRADE 60 UNO. DEFORMATIONS SHALL BE IN ACCORDANCE WITH
- 2. BARS SHALL BE CLEAN OF RUST, GREASE, OR OTHER MATERIALS LIKELY TO IMPAIR BOND. ALL REINFORCING BAR BENDS SHALL BE MADE COLD.
- 3. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185. PROVIDE LAPS AS PER ACI 318-19 SECTION 25.5, 8" MINIMUM. WWF SHALL BE SUPPORTED ON APPROVED CHAIRS.
- 4. REINFORCING BAR SPLICES SHALL BE MADE AS INDICATED ON THE DRAWINGS. MINIMUM SPLICE LENGTH FOR REINFORCING STEEL BARS IN MASONRY SHALL BE 48 BAR DIAMETERS, 24" MINIMUM. MINIMUM SPLICE LENGTH FOR REINFORCING STEEL BARS IN CONCRETE SHALL BE PER ACI 318-19 CHAPTER 25. LAP ALL HORIZONTAL BARS AT CORNERS AND INTERSECTIONS.
- 5. ALL BARS SHALL BE MARKED SO THEIR IDENTIFICATION CAN BE MADE WHEN THE FINAL IN-PLACE INSPECTION IS MADE.
- SHALL BE DONE BY AWS CERTIFIED WELDERS USING E90XX OR APPROVED ELECTRODES. WELDING PROCEDURES SHALL CONFORM TO THE REQUIREMENTS OF STRUCTURAL WELDING CODE- REINFORCING STEEL", AWS-D1.4, LATEST REVISION. REINFORCING BARS TO BE WELDED SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-706.

6. WHERE WELDING OF REINFORCING IS APPROVED BY THE STRUCTURAL ENGINEER, IT

- 7. BARS IN SLABS SHALL BE SECURELY SUPPORTED ON WELL-CURED CONCRETE BLOCKS OR APPROVED METAL CHAIRS, PRIOR TO PLACING CONCRETE.
- 8. REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE "ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", LATEST
- 9. COMPLETE AND DETAILED REINFORCING PLACEMENT DRAWINGS SHALL BE PREPARED AND SUBMITTED TO THE ARCHITECT FOR REVIEW BY THE STRUCTURAL ENGINEER PRIOR TO FABRICATION IN ACCORDANCE WITH THE SPECIFICATIONS AND APPLICABLE CODES. THESE DRAWINGS SHALL BE AVAILABLE ON THE JOB SITE PRIOR TO PLACING OF
- 10. MILL TEST REPORTS FOR GRADE 60 BARS SHALL BE SUBMITTED PRIOR TO PLACEMENT OF CONCRETE.
- 11. CONTINUOUS INSPECTION OF CONCRETE SHALL INCLUDE INSPECTION DURING INSTALLATION OF REINFORCING STEEL. INSPECTION SHALL BE SCHEDULED SO THAT PLACEMENT OF REINFORCING STEEL, CONDUIT, SLEEVES, AND EMBEDDED ITEMS MAY BE CORRECTED PRIOR TO PLACEMENT OF OVERLYING GRIDS OR REINFORCING STEEL.
- 12. ALL GRADE 60 REINFORCING STEEL SHALL BE CLEARLY MARKED TO DIFFERENTIATE THEM FROM GRADE 40 REINFORCING STEEL IF CONCURRENTLY ON SITE.
- 13. CONCRETE PROTECTION FOR REINFORCEMENT
- THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:

	•	OVER, IN.
А	CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3
В	CONCRETE EXPOSED TO EARTH OR WEATHER: NO. 6 THROUGH NO. 18 BAR NO 5 BAR, W31 OR D31 WIRE & SMALLER	2 1 1/2
C	CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: SLABS, WALLS, JOISTS: NO. 14 AND NO. 18 BAR NO. 11 BAR & SMALLER	1 1/2 1
	BEAMS, COLUMNS: PRIMARY REINFORCEMENT TIES, STIRRUPS, SPIRALS	1 1/2

STRUCTURAL OBSERVATION

- 1. STRUCTURAL OBSERVATION SHALL BE PERFORMED BY THE STRUCTURAL ENGINEER OF RECORD IN ACCORDANCE WITH SECTION 1704.6 OF THE CODE.
- 2. STRUCTURAL OBSERVATION IS THE VISUAL OBSERVATION OF THE ELEMENTS AND CONNECTIONS OF THE STRUCTURAL SYSTEM AT SIGNIFICANT CONSTRUCTION STAGES AND THE COMPLETED STRUCTURE FOR GENERAL CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATION. STRUCTURAL OBSERVATION DOES NOT WAIVE THE RESPONSIBILITY FOR THE INSPECTIONS REQUIRED OF THE BUILDING INSPECTOR OR THE DEPUTY INSPECTOR.
- 3. THE STRUCTURAL ENGINEER OF RECORD SHALL PERFORM THE STRUCTURAL OBSERVATION. DSA REQUIRES THAT THE STRUCTURAL ENGINEER RESPONSIBLE FOR THE STRUCTURAL DESIGN PERFORM THIS DUTY UNLESS THE SEOR IS CHANGED VIA DSA FORM
- 4. THE CONTRACTOR SHALL COORDINATE AND CALL FOR A PRE-CONSTRUCTION MEETING BETWEEN THE ENGINEER OR ARCHITECT RESPONSIBLE FOR THE STRUCTURAL DESIGN, STRUCTURAL OBSERVER, CONTRACTOR, AFFECTED SUBCONTRACTORS AND DEPUTY INSPECTORS. THE PURPOSE OF THE MEETING SHALL BE TO IDENTIFY THE MAJOR STRUCTURAL ELEMENTS AND CONNECTIONS THAT AFFECT THE VERTICAL AND LATERAL OBSERVATIONS. A RECORD OF THE MEETING SHALL BE INCLUDED IN THE FIRST OBSERVATION REPORT SUBMITTED TO THE PROJECT INSPECTOR.

ELEMENTS/CONNECTIONS TO BE OBSERVED **CONSTRUCTION STAGES**

EXTERIOR WALL PANEL INFILL REINFORCING STEEL, ANCHOR RODS THE STRUCTURAL OBSERVER SHALL PREPARE A REPORT FOR EACH SIGNIFICANT STATE

OF CONSTRUCTION OBSERVED. THIS REPORT SHALL BE ON DSA FORM 6A/E. A COPY OF THE OBSERVATION REPORT SHALL BE SENT TO DSA, OWNER, CONTRACTOR, AND 5. PROJECT INSPECTOR.

CONSTRUCTION JOINTS

- 1. ALL CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CODE SECTION 1906.4 AND THE TYPICAL CONSTRUCTION JOINT DETAILS SHOWN ON THE STRUCTURAL DRAWINGS.
- 2. ALL SURFACES OF CONSTRUCTION JOINTS SHALL BE CLEANED TO REMOVE DUST. CHIPS OR OTHER FOREIGN MATTER PRIOR TO PLACING THE ADJACENT CONCRETE.
- 3. THE CONTRACTOR SHALL SUBMIT THE PROPOSED LOCATIONS OF CONSTRUCTION JOINTS TO THE STRUCTURAL ENGINEER FOR REVIEW BEFORE STARTING CONSTRUCTION.

CHEMICALLY ADHERED CONCRETE ANCHORS

- 1. EPOXY ANCHORS SHALL BE THE FOLLOWING AS NOTED ON THE DRAWINGS OR AN SEOR APPROVED EQUAL:
- a. HILTI HIT HY-200 ADHESIVE ANCHORS (ICC ESR-3187)
- INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS OF THE ICC REPORT.

POST-INSTALLED MECHANICAL CONCRETE ANCHORS

- 1. MECHANICAL ANCHORS SHALL BE THE FOLLOWING OR AS NOTED ON THE DRAWINGS OR AN SEOR APPROVED EQUAL: a. HILTI KWIK BOLT TZ2 (ICC ESR-4266) - STAINLESS STEEL REQUIRED AT EXTERIOR APPLICATIONS.
- 2. SCREW ANCHORS SHALL BE THE FOLLOWING OR AS NOTED ON THE DRAWINGS OR AN SEOR APPROVED EQUAL a. HILTI KWIK HUS EZ (ICC ERS-3027) - DRY, INTERIOR USE ONLY.
- INSTALL ALL ANCHORS PER MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS OF THE ICC REPORT.

FOUNDATION

- 1. FOUNDATION DESIGN BASED ON SOIL CAPACITIES AND LATERAL EARTH PRESSURES AS ESTABLISHED BY THE CODE. REFER TO SECTION 1610.1 AND 1806.
- 2. FOOTINGS ARE DESIGNED BASED ON THE FOLLOWING INFORMATION:

ALLOWABLE NET BEARING = 1,500 PSF PASSIVE EARTH PRESSURE = 100 PSF

FOOTINGS SHALL BEAR ON FIRM NATURAL SOILS OR PROPERLY COMPACTED FILL FOOTINGS SHALL BE EMBEDDED AT LEAST 24" INTO NATIVE SOILS. COMPACTED FILL MATERIAL SHALL BE IN ACCORDANCE WITH THE REQUIREMENT OF SECTION 1804.6 OF

- 3. CONTRACTOR TO PROVIDE FOR DE-WATERING OF EXCAVATIONS FROM EITHER SURFACE WATER, GROUND WATER OR SEEPAGE, IF REQUIRED.
- CONTRACTOR SHALL PROVIDE FOR DESIGN AND INSTALLATION OF ALL CRIBBING. SHEATHING AND SHORING REQUIRED AND SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS AND UTILITIES IN ACCORDANCE WITH ALL NATIONAL, STATE AND LOCAL SAFETY ORDINANCES.
- 5. EXCAVATION FOR FOOTINGS SHALL BE APPROVED BY THE INSPECTOR OR SOILS ENGINEER PRIOR TO PLACING THE CONCRETE AND REINFORCING. CONTRACTOR TO NOTIFY THE INSPECTOR WHEN INSPECTION OF EXCAVATION IS READY. INSPECTOR TO SUBMIT LETTER OF COMPLIANCE.
- 6. ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED. DO NOT PLACE BACKFILL BEHIND RETAINING WALLS BEFORE CONCRETE OR GROUT HAS ATTAINED FULL DESIGN STRENGTH. CONTRACTORS SHALL BRACE OR PROTECT ALL BUILDING AND PIT WALLS BELOW GRADE FROM LATERAL LOADS UNTIL ATTACHING FLOORS ARE COMPLETELY IN PLACE AND HAVE ATTAINED FULL STRENGTH. CONTRACTOR SHALL PROVIDE FOR DESIGN, PERMITS AND INSTALLATION OF SUCH BRACING.
- 7. FOOTING BACKFILL AND UTILITY TRENCH BACKFILL WITHIN BUILDING AREA SHALL BE MECHANICALLY COMPACTED IN LAYERS IN ACCORDANCE WITH THE SOILS REPORT AND APPROVED BY THE SOILS ENGINEER. FLOODING WILL NOT BE PERMITTED. ALL FILLS USED TO SUPPORT FOUNDATIONS SHALL BE INSPECTED BY THE SOILS ENGINEER REPRESENTATIVE PER CODE SECTION 3317, VOLUME I.
- 8. ALL ABANDONED FOOTINGS, UTILITIES, ETC. SHALL BE REMOVED UNLESS NOTED OTHERWISE. NEW FOOTINGS MUST EXTEND INTO UNDISTURBED SOILS.
- 9. SLABS ON GRADE SHALL BE SUPPORTED ON NATURAL GRADE OR COMPACTED FILL

- 1. ALL CONCRETE CONSTRUCTION SHALL CONFORM WITH CHAPTER 19 OF THE CODE AND WITH THE PROVISIONS OF ACI 318-14.
- 2. REINFORCED CONCRETE WAS DESIGNED BY THE "ULTIMATE STRENGTH DESIGN METHOD".
- 3. CONCRETE MIXES SHALL BE DESIGNED BY AN APPROVED TESTING LABORATORY AND REVIEWED BY THE STRUCTURAL ENGINEER. THE COMPRESSIVE STRENGTH AND DURABILITY OF THE CONCRETE SHALL BE PROPORTIONED BASED ACI 318-14 AND CBC
- 4. SCHEDULE OF STRUCTURAL CONCRETE 28-DAY STRENGTH AND TYPES (UNO):
- MIN MAX MAX MAX LOCATION IN STRUCTURE STRENGTH DENSITY SLUMP WATER/CEMENT AGGREGATE (PSI) (PCF) (IN) RATIO 4000 145 ALL CONCRETE FOR FOUNDATIONS

4000 145 4

5. PORTLAND CEMENT SHALL CONFORM TO ASTM C-150, TYPE II/V.

SLAB ON GRADE & CURBS

- 6. AGGREGATE FOR HARDROCK CONCRETE SHALL CONFORM TO ALL REQUIREMENTS AND TESTS OF ASTM C-33 AND PROJECT SPECIFICATIONS. EXCEPTIONS MAY BE USED ONLY WITH PERMISSION OF THE STRUCTURAL ENGINEER.
- 7. AGGREGATE FOR LIGHT WEIGHT (110PCF) CONCRETE SHALL BE EXPANDED CONFORMING TO ASTM C330 AND PROJECT SPECIFICATIONS. EXCEPTIONS MAY BE USED ONLY WITH PERMISSION OF THE STRUCTURAL ENGINEER.
- 8. CONCRETE MIXING OPERATION, ETC. SHALL CONFORM TO ASTM C-94.
- 9. PLACEMENT OF CONCRETE SHALL CONFORM TO CODE SECTION 1905A AND PROJECT SPECIFICATIONS. CLEAN AND ROUGHEN TO 1/4" AMPLITUDE ALL CONCRETE SURFACES AGAINST WHICH NEW CONCRETE IS TO BE PLACED.
- 10. ALL REINFORCING BARS, ANCHOR BOLTS AND OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE. 11. PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL OPENINGS IN CONCRETE BEFORE
- PLACING. DO NOT CUT ANY REINFORCING WHICH MAY CONFLICT. CORING IN CONCRETE IS NOT PERMITTED. NOTIFY THE STRUCTURAL ENGINEER IN ADVANCE OF CONDITIONS NOT SHOWN ON THE DRAWINGS. SEE THESE DRAWINGS FOR ADDITIONAL RESTRICTIONS ON THE PLACEMENT OF OPENINGS IN SLABS AND WALLS.
- 12. PIPES LARGER THAN 1-1/2" DIAMETER SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE EXCEPT WHERE SPECIFICALLY APPROVED BY STRUCTURAL ENGINEER. PIPES SHALL NOT DISPLACE OR INTERRUPT REINFORCING BARS, SPACE EMBEDDED PIPES AND SLEEVES AT A MINIMUM OF 3 DIAMETERS.

- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES.
- 2. ALL DRAWINGS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR ARCHITECT.
- 3. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS
- ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING: 2022 CALIFORNIA BUILDING CODE, VOLUME 2, REFERRED TO HERE AS "THE CODE", AND ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER WHICH ANY PORTION OF THE WORK, INCLUDING THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY, AND THOSE CODES & STANDARDS LISTED IN THESE NOTES AND SPECIFICATIONS.
- SEE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING:
- 5. a. SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS, EXCEPT AS NOTED b. SIZE AND LOCATION OF ALL INTERIOR AND EXTERIOR NON-BEARING PARTITIONS. c. SIZE AND LOCATION OF ALL CONCRETE CURBS, EQUIPMENT PADS, PITS, FLOOR DRAINS, SLOPES, DEPRESSED AREAS, CHANGE IN LEVEL, CHAMFERS, GROOVES,
- INSERTS, ETC. d. SIZE AND LOCATION OF ALL FLOOR AND ROOF OPENINGS EXCEPT AS SHOWN. e. FLOOR AND ROOF FINISHES.
- f. DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS. SEE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR THE FOLLOWING:
- 6. a. PIPE RUNS, SLEEVES, HANGERS, TRENCHES, WALL AND SLAB OPENINGS, ETC., EXCEPT AS SHOWN OR NOTED. b. ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS.
- CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL OR PLUMBING FIXTURES. d. SIZE AND LOCATION OF MACHINE OR EQUIPMENT BASES, ANCHOR BOLTS FOR

THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.

- OPENINGS, POCKETS, ETC., LARGER THAN 6" SHALL NOT BE PLACED IN CONCRETE SLABS, DECKS, WALLS, UNLESS SPECIALLY DETAILED ON THE STRUCTURAL DRAWINGS. NOTIFY THE STRUCTURAL ENGINEER WHEN DRAWINGS BY OTHERS SHOW OPENINGS, POCKETS, ETC., LARGER THAN 6" NOT SHOWN ON THE STRUCTURAL DRAWINGS, BUT WHICH ARE LOCATED IN STRUCTURAL MEMBERS. FOR ANY FURTHER RESTRICTIONS ON OPENINGS IN STRUCTURAL ELEMENTS, SEE APPLICABLE SECTIONS BELOW.
- PIPES LARGER THAN 1-1/2" DIAMETER SHALL NOT BE EMBEDDED IN STRUCTURAL
- 9. CONCRETE EXCEPT WHERE SPECIFICALLY APPROVED. ASTM SPECIFICATIONS ON THE DRAWINGS SHALL BE OF THE LATEST REVISION.
- CONTRACTOR SHALL INVESTIGATE SITE DURING CLEARING AND EARTHWORK 11. OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES, SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS, ETC. IF ANY SUCH STRUCTURES ARE FOUND, STRUCTURAL ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
- CONSTRUCTION MATERIAL SHALL BE SPREAD OUT IF PLACED ON FRAMED ROOF OR 12. FLOOR. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT. PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE STRUCTURE HAS NOT ATTAINED DESIGN

DESIGN

FLOOR AND ROOF LIVE LOADS:

100 PSF (NON-REDUCIBLE) FIRST FLOOR 2. SNOW LOADS:

SNOW LOADS ARE IN ACCORDANCE WITH SECTION 1608 OF THE CODE. GROUND SNOW LOAD, Pg = ZERO

3. WIND LOADS:

WIND LOADS ARE IN ACCORDANCE WITH SECTION 1609 OF THE CBC AND ASCE 7-16. BASIC WIND SPEED, V = 95 MPH (3-SECOND GUST) WIND EXPOSURE C

WIND RISK CATEGORY = II BUILDING HEIGHT = 63 FT

EARTHQUAKE LOADS: EARTHQUAKE LOADS ARE IN ACCORDANCE WITH SECTION 1613 OF THE CBC AND

RISK CATEGORY SITE CLASS SEISMIC DESIGN CATEGORY = D IMPORTANCE FACTOR: le = 1.25

LOCATION: LATITUDE = 33.9803535, LONGITUDE = -118.2186682 $S_S = 2.05g$ = 0.83g= 1.0 $F_{v} = 1.7$

$S_{M1} = 1.73q$ $S_{DS} = 1.46q$ $S_{D1} = 1.15q$

 $S_{MS} = 2.19g$

EARTHQUAKE LOADS ON NON-STRUCTURAL COMPONENTS EARTHQUAKE LOADS ARE IN ACCORDANCE WITH SECTION 1613 OF THE CODE. Ip = 1.25 FOR ALL NONSTRUCTURAL COMPONENTS. EARTHQUAKE LOADS ON

FOLLOWING PROCEDURE: CALCULATE Fp BASED ON ASCE 7-16 EQUATION 13.3-1

THE MAXIMUM AND MINIMUM VALUES FOR Fp SHALL BE DETERMINED FROM ASCE 7-16 EQUATIONS 13.3-2 AND 13.3-3, RESPECTIVELY.

ALL EARTHQUAKE LOADS ON NONSTRUCTURAL COMPONENTS SHALL BE BASED ON

PER THE GEOTECHNICAL INVESTIGATION REPORT THE PROJECT IS LOCATED WITHIN A LIQUEFACTION HAZARD ZONE. IT IS NOT WITHIN A STATE OF CALIFORNIA ALQUIST

NONSTRUCTURAL COMPONENTS, SHALL BE DETERMINED IN ACCORDANCE WITH THE

PRIOLO EARTHQUAKE FAULT ZONE.

STRUCTURAL SCOPE OF WORK THE STRUCTURAL SCOPE OF WORK ILLUSTRATED IN THESE DRAWINGS CONSISTS OF THE

THE VALUES OF ap AND Rp FROM ASCE 7-16 TABLES 13.5-1 AND 13.6-1.

- A. UTILITY TRENCHES AND CORES IN SLAB ON GRADE AND SECOND FLOOR SLAB.
- B. NEW DOOR OPENING IN EAST FACADE, FIRST FLOOR.
- C. NEW STEEL FRAMING AROUND OPERABLE PARTITION IN FIRST FLOOR.
- D. NEW STEEL FRAMING FOR ARCHITERTURAL WALL BUMP UP ABOVE THIRD FLOOR.
- E. SEISMIC BRACING IMPROVEMENT/RETROFIT FOR EXISTING CEILING GRAVITY SUPPORT FRAMING ABOVE LEVEL 2.



STRUCTURA

DRAW Author CHECKE Checker DATE 11/01/2024

TESTING, SPECIAL INSPECTIONS, AND OBSERVATIONS

TABLE 2 - REQUIRED TESTING FOR SPECIAL INSPECTIONS **TESTING** SYSTEM OR MATERIAL REMARKS REFERENCED REFERENCE STANDARDS CONCRETE CONCRETE STRENGTH ASTM C39 CONCRETE SLUMP ASTM C143 FABRICATE SPECIMENS AT TIME FRESH CONCRETE IS PLACED. TEST EACH 150 CY NOR LESS THAN EACH 1705.3 CONCRETE AIR CONTENT ASTM C231 5000 SF OF SLAB OR WALL PLACED EACH DAY CONCRETE TEMPERATURE ASTM C1064 UNIT WEIGHT OF FRESH STRUCTURAL LIGHTWEIGHT ASTM C567 FLOOR FLATNESS AND LEVELNESS **ASTM E1155** TEST WITHIN 24 HOURS OF FINISHING SPECIMEN TAKEN FROM THE IN-PLACE OR FROM ASTM C39 TEST PANELS. EACH 50 CY NOR LESS THAN EACH SHOTCRETE STRENGTH 1910.10 5000 SF OF WALL PLACED EACH SHIFT STEEL ALL C.J.P. WELDS IN MATERIALS 5/16 AND THICKER NDT OF COMPLETE JOINT PENETRATION WELDS AWS D1.1 6.13 AND 6.14.3 REQUIRE UT TESTING 1705.2 MT OR PT ALL THERMALLY CUT SURFACES OF ACCESS NDT OF ACCESS HOLES IN HEAVY SECTION AISC 360 J1.6 & N5.5c HOLES WHEN FLANGE EXCEEDS 2" FOR ROLLED SHAPES OR WEB EXCEEDS 2" FOR BUILT-UP SHAPES PRE-CONSTRUCTION TESTING OF WELDING STUDS TEST EACH SIZE AND TYPE OF STUD EACH SHIFT AWS D1.1 7.7.1 PRE-INSTALLATION TESTING OF WELDING STUDS AWS D1.1 7.6 TEST EACH STUD SIZE AND DECK GAUGE COMBINATION WELDED THROUGH DECKING RCSC SPECIFICATION FOR STRUCTURAL TEST EACH COMBINATION OF DIAMETER PRE-INSTALLATION VERIFICATION OF PRETENSIONED JOINTS USING ASTM LENGTH, GRADE, AND LOT TO BE USED IN THE HIGH STRENGTH BOLTS A325 OR A490 BOLTS WORK SECTION 7

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		INSPECTIO	N	
SYSTEM OR MATERIAL	INSPECTION TYPE	CODE REFERENCE	REFERENCED STANDARDS	REMARKS
INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS AND VERIFY PLACEMENT REINFORCING BAR WELDING	PERIODIC	1705.3 1908.4	ACI 318 CHAPTER 20, 25.2 - 25.3, 26.6.1 - 26.6.3	TOLERANCE AND REINFORCING PLACEMENT PI ACI 318, SECTION 26.6.2
A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706 B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM	PERIODIC PERIODIC	1705.3	ACI 318 26.6.4 AWS D1.4, SECTION 7	VISUALLY INSPECT ALL WELDS. MATERIAL VERIFICATION OF REINFORCING STE FOR WELDING (CERTIFIED MILL TEST REPORTS
5/16" C. INSPECT ALL OTHER WELDS	CONTINUOUS			VERIFICATION OF WELD FILLER METALS, USE OF PROPER WPS'S AND WELDER QUALIFICATIONS
INSPECT ANCHORS CAST IN CONCRETE INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.	PERIODIC		ACI 318 17.8.2	
A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATION TO RESIST SUSTAINED TENSION LOADS.	CONTINUOUS		ACI 318 17.8.2.4	INSPECTION REQUIREMENTS PER ICC EVALUATION REPORT. VERIFY THAT ADHESIVE ANCHORS INSTALLED HORIZONTALLY OR UPWARDLY INCLINED
B. MECHANICAL ANCHORS AND ADHESIVE NOT DEFINED IN 4A.	PERIODIC		ACI 318 17.8.2	ORIENTATION ARE INSTALLED BY CERTIFIED INSTALLERS.
5. VERIFY USE OF REQUIRED DESIGN MIX	PERIODIC	1904.1, 1904.2, 1908.2, 1908.3		VERIFY THAT ALL MIXES USED COMPLY WITH APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED CODES AND STANDARDS
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TEST, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE TEMPERATURE OF CONCRETE.	CONTINUOUS	1908.10	ASTM C172 ASTM C31 ACI 318 26.4, 26.12	
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	CONTINUOUS	1904.6, 1908.7, 1908.8	ACI 318 26.5	
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	PERIODIC	1908.9	ACI 318 26.5.3 - 26.5.5	
9. INSPECT PRESTRESSED CONCRETE FOR: A. APPLICATION OF PRESTRESSING FORCES; AND B. GROUTING OF BONDED PRESTRESSING	CONTINUOUS		ACI 318 26.10	
TENDONS. 10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	PERIODIC		ACI 318 26.8	
11. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	PERIODIC		ACI 318 26.11.2	
12. INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF CONCRETE MEMBER BEING FORMED	PERIODIC		ACI 318 26.11.1.2(b)	
13. INSPECT INSTALLATION OF MECHANICAL COUPLING DEVICES.	CONTINUOUS		ICC EVALUATION REPORT	VERIFY GRADE AND SIZE OF REBAR BEING SPLICED, COUPLER IDENTIFICATION AND POSITION, AND INSTALLATION OF COUPLER
INSPECTION TASKS PRIOR TO WELDING		STEEL		
WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE	PERFORM			
2. MANUFACTURER CERTIFICATION FOR WELDING CONSUMABLES AVAILABLE	PERFORM			
3. MATERIAL IDENTIFICATION (TYPE/GRADE) 4. WELDER IDENTIFICATION SYSTEM	OBSERVE OBSERVE	1705.2.1	AISC 360, TABLE N5.4-1	
5. FIT-UP GROOVE WELDS (INCLUDING JOINT GEOMETRY)	OBSERVE	1700.2.1	AISC 341, TABLE 16-1	VERIFY JOINT PREPARATION, DIMENSIONS, CLEANLINESS, TACK WELD QUALITY, BACKING TYPE AND FIT
6. CONFIGURATION AND FINISH OF ACCESS HOLE 7. FIT-UP OF FILLET WELDS	OBSERVE OBSERVE			VERIFY ALIGNMENT, GAPS AT ROOT, CLEANLIN OF STEEL SURFACES, AND QUALITY OF TACK V
8. CHECK WELDING EQUIPMENT	OBSERVE			OF STEEL SURFACES, AND QUALITY OF TACK V
1. USE OF QUALIFIED WELDERS	OBSERVE			
2. CONTROL AND HANDLING OF WELDING CONSUMABLES	OBSERVE			VERIFY PACKAGING AND EXPOSURE CONTROL
3. NO WELDING OVER TACK WELDS 4. ENVIRONMENTAL CONDITIONS	OBSERVE OBSERVE	1705.2.1		VERIFY WIND SPEED IS WITHIN LIMITS AS WELI PRECIPITATION AND TEMPERATURE
5. WELDING PROCEDURE SPECIFICATION (WPS) FOLLOWED	OBSERVE		AISC 360, TABLE N5.4-2 AISC 341, TABLE J6-2	VERIFY SETTINGS ON WELDING EQUIPMENT, TRAVEL SPEED, SELECTED WELDING MATERIA SHIELDING GAS TYPE/FLOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAIL AND PROPER POSITION (F, V, H, OH)
6. WELDING TECHNIQUES	OBSERVE			VERIFY INTERPASS AND FINAL CLEANING, PRO LIMITATIONS AND QUALITY OF EACH PASS
1. WELDS CLEANED	OBSERVE			
2. SIZE, LENGTH, AND LOCATION OF WELDS	PERFORM			VERIFY CRACK PROHIBITION, WELD/BASE-MET
3. WELDS MEET VISUAL ACCEPTANCE CRITERIA	PERFORM			FUSION, CRATER CROSS SECTION, WELD PROFILES AND SIZE, UNDERCUT, AND POROSI DOCUMENT FINDINGS IN REPORT.
4. ARC STRIKES 5. K-AREA	PERFORM PERFORM	1705.2.1	AISC 360, TABLE N5.4-3 AISC 341, TABLE J6-3	VISUALLY INSPECT WEB IN K-AREA FOR CRACK WITHIN 3" OF WELD WHERE WELDS ARE PROV
6. BACKING REMOVED AND WELD TABS REMOVED	PERFORM			IN THE K-AREA.
WHERE REQUIRED 7. PLACEMENT OF REINFORCING OR CONTOURING FILLET WELDS WHERE REQUIRED	PERFORM			
8. REPAIR ACTIVITIES	PERFORM			
9. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER INSPECTION TASKS PRIOR TO BOLTING	PERFORM			
MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	PERFORM			
2. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	OBSERVE			
3. PROPER FASTENER SELECTED FOR THE JOINT DETAIL.	OBSERVE			VERIFY GRADE, TYPE, BOLT LENGTH IF THREA ARE TO BE EXCLUDED FROM SHEAR PLANE.
4. PROPER BOLTING PROCEDURE SELECTED FOR THE JOINT DETAIL	OBSERVE	1705.2.1	AISC 360, TABLE N5.6-1 AISC 341, TABLE J7-1	VERIFY FAYING SURFACE CONDITION AND HOI
5. CONNECTING ELEMENTS MEET APPLICABLE REQUIREMENTS 6. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLING PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND	OBSERVE OBSERVE			PREPARATION
METHODS USED. 7. PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENT	OBSERVE			
1. FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS ARE	OBSERVE			
POSITIONED AS REQUIRED 2. JOINT BROUGHT TO THE SNUG-TIGHT CONDITION	OBSERVE			1
 JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO PRETENSIONING OPERATION. FASTENER COMPONENT NOT TURNED BY THE 	OBSERVE OBSERVE	1705.2.1	AISC 360, TABLE N5.6-2 AISC 341, TABLE J7-2	
2. JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO PRETENSIONING OPERATION.		1705.2.1		

AISC 360, TABLE N5.6-3 AISC 341, TABLE J7-3

PERFORM

DOCUMENT ACCEPTANCE OR REJECTION OF

BOLTED CONNECTIONS.

SPECIAL INSPECTIONS AND TESTING

SPECIAL INSPECTION NOTES:

- 1. OWNER WILL RETAIN A QUALIFIED, INDEPENDENT SPECIAL INSPECTION AGENCY TO PERFORM SPECIAL INSPECTIONS AND TESTS PER CHAPTER 17 OF THE CODE. REFER TO THE TABLES 1 AND 2 FOR TESTS AND INSPECTIONS THAT WILL BE PERFORMED.
- 2. THE SPECIAL INSPECTOR WILL OBSERVE THE INDICATED WORK FOR COMPLIANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. ALL NON-CONFORMING WORK WILL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION AND NOTED IN THE INSPECTION REPORTS.
- 3. TESTING FREQUENCIES IDENTIFIED IN THE STATEMENT OF SPECIAL INSPECTION ARE DEFINED AS FOLLOWS:
- A. CONTINUOUS: THE FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED.
- B. PERIODIC: THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK.
- C. OBSERVE: THE SPECIAL INSPECTOR WILL OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.
- D. PERFORM: THE SPECIAL INSPECTOR WILL PERFORM THESE TASKS FOR EACH ELEMENT.
- E. DOCUMENT: THE SPECIAL INSPECTOR WILL DOCUMENT IN A REPORT THAT THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE CONTRACT

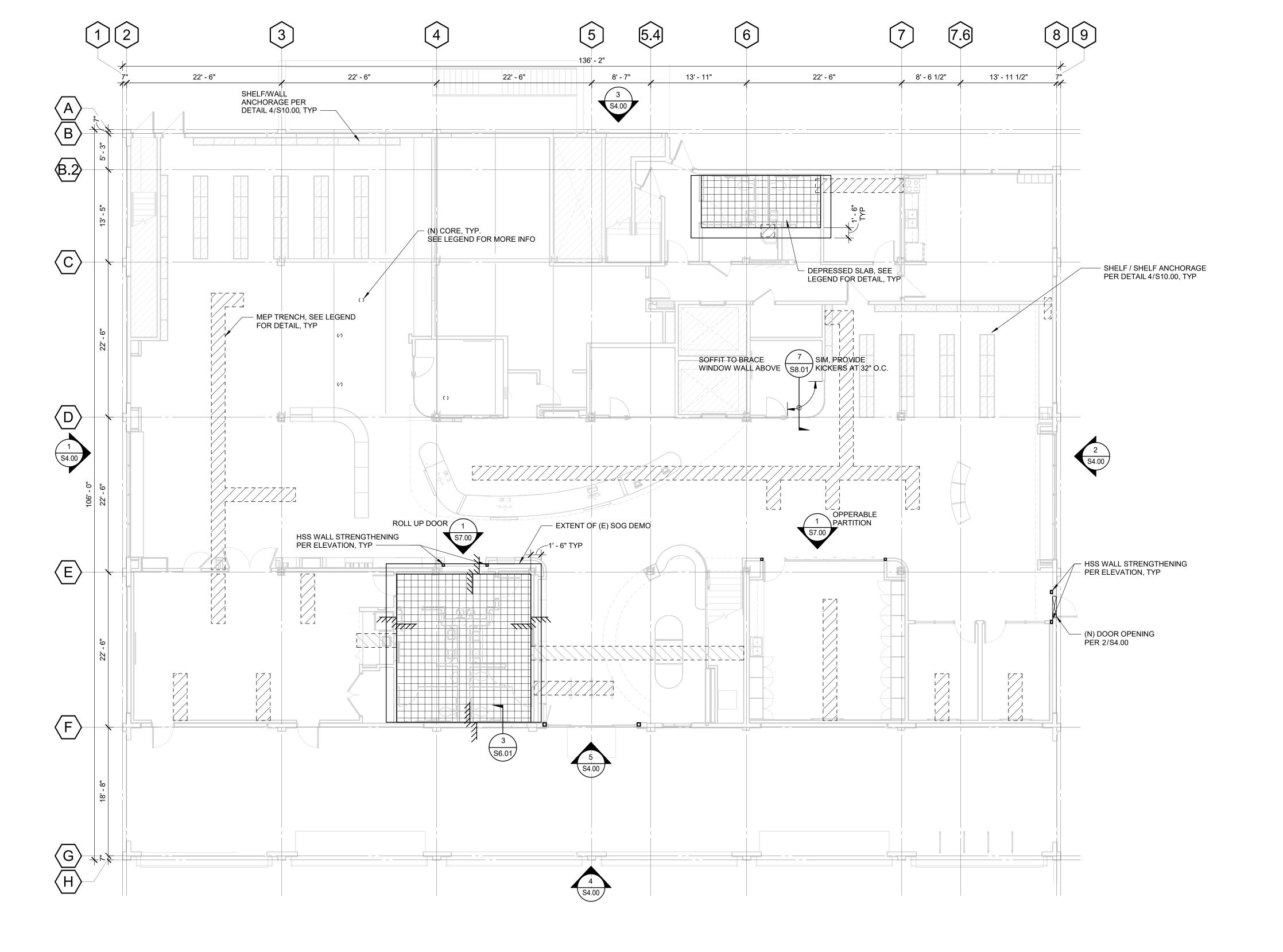
CONTRACTOR RESPONSIBILITY:

- 1. THE CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF THE MAIN WIND/SEISMIC FORCE RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM, OR A WIND/SEISMIC FORCE RESISTING COMPONENT LISTED IN TABLE 1 SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN THE FOLLOWING:
- A. ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS.
- B. ACKNOWLEDGEMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL.
- C. PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION INCLUDING THE METHOD AND FREQUENCY OF REPORTING AND DISTRIBUTION OF THE REPORTS.
- D. IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.

NAC NO 2300226

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DATE 11/01/2024

LEVEL 1 FLOOR



LEGEND

(N) MEP TRENCHING PER DETAIL 15/S6.00

(N) CORE, SEE ARCH DRAWINGS FOR LOCATION. MAX 4"
CORE. LOCATE (E) REINFORCEMENT VIA NON-DESTRUCTIVE
METHODS AND ADJUST CORE LOCATION TO NOT DAMAGE
(E) REBAR

(N) DEPRESSED SLAB PER DETAIL 14/S6.00 SEE ARCH FOR LOCATION

PLAN NOTES:

S9.XX S10.XX

 REFER TO THE S-SERIES SHEETS LISTED BELOW FOR THE CORRESPONDING INFORMATION:

SHEET SERIES

INFORMATION

S0.00

ABBREVIATIONS, SYMBOLS & SHEET INDEX
S0.01

STRUCTURAL GENERAL NOTES
S4.XX

EXTERIOR ELEVATIONS
S5.XX

BUILDING SECTIONS
CONCRETE DETAILS
S7.XX

STRUCTURAL STEEL DETAILS
S8.XX

LIGHT GAGE METAL STUD WALL DETAILS

 VERIFY ALL DIMENSIONS, ELEVATIONS, FINISH SURFACES, SLOPES, DRAINS, SLAB DEPRESSIONS, SLAB OPENINGS, CURBS, ETC WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF CONSTRUCTION.

4. DO NOT DAMAGE EXISTING FOUNDATIONS DURING SLAB REMOVAL AND TRENCHING.

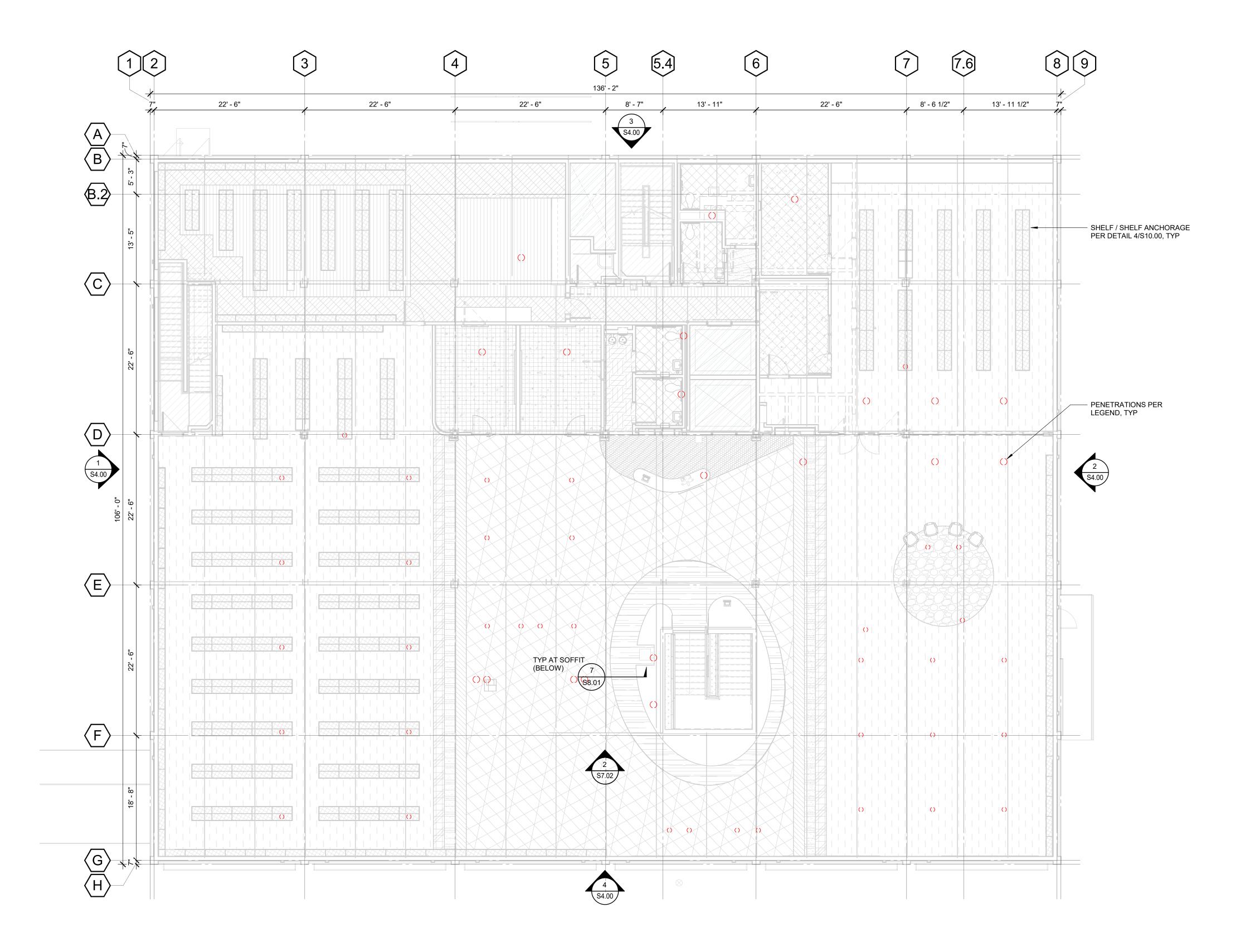
CEILING RETROFIT DETAILS SHELVING ANCHORAGE

 PENETRATIONS NOT SHOWN IN PLAN SHALL BE BROUGHT TO THE SEOR'S ATTENTIONS PRIOR TO THE INSTALLATION OF WORK.

N



LEVEL 2 FLOOR



<u>LEGEND</u>

(N) CORE, SEE ARCH DRAWINGS FOR LOCATION. MAX 4" CORE. LOCATE (E) REINFORCEMENT VIA NON-DESTRUCTIVE METHODS AND ADJUST CORE LOCATION TO NOT DAMAGE (E) REBAR CONTRACTOR TO SCAN SLAB VIA NON DESTRUCTIVE METHODS AND IDENTIFY EXISTING REINFORCEMENT

PLAN NOTES:

 REFER TO THE S-SERIES SHEETS LISTED BELOW FOR THE CORRESPONDING INFORMATION:

SHEET SERIES INFORMATION

S0.00 ABBREVIATIONS, SYMBOLS & SHEET INDEX
S0.01 STRUCTURAL GENERAL NOTES
S4.XX EXTERIOR ELEVATIONS
S5.XX BUILDING SECTIONS

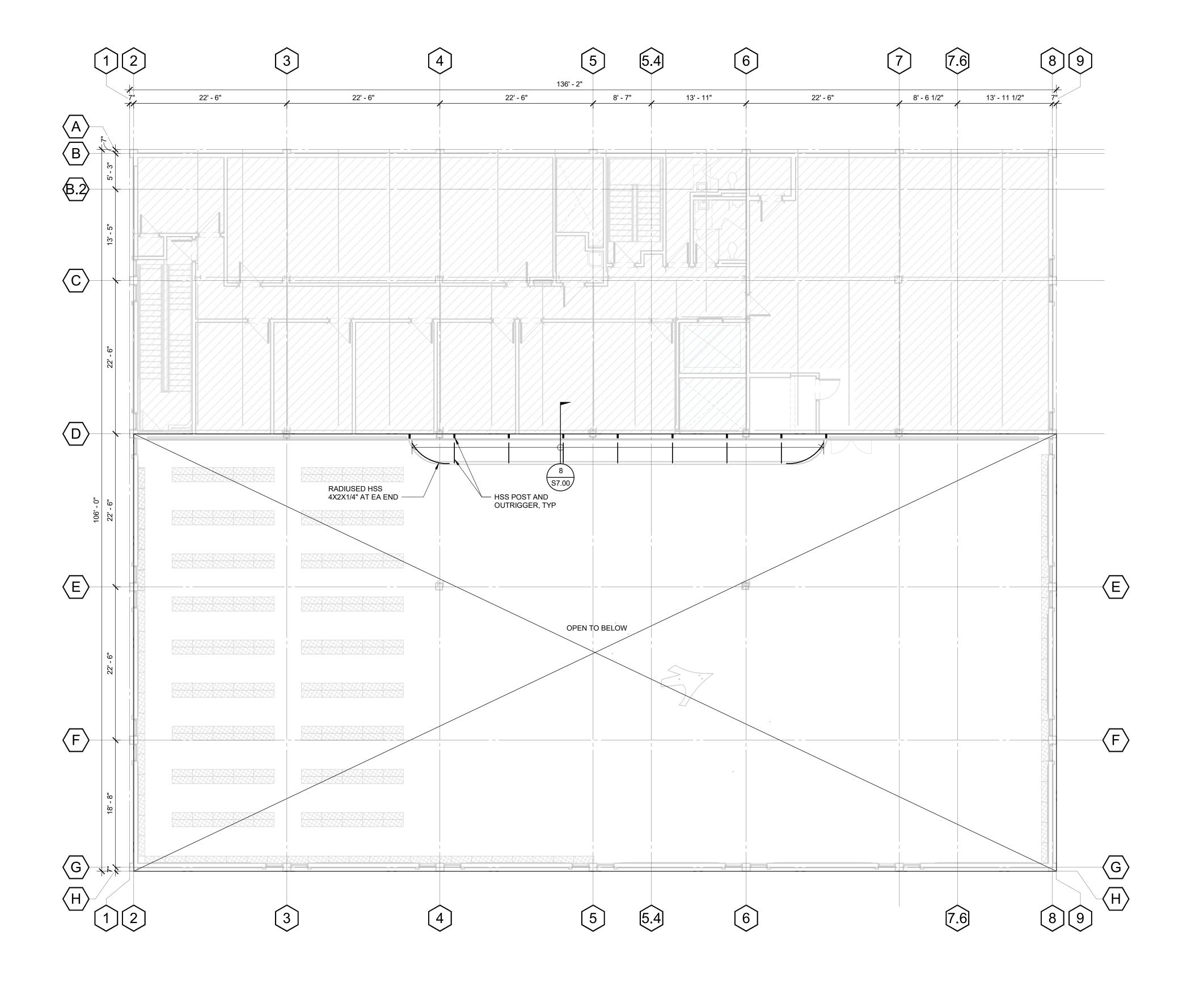
S6.XX CONCRETE DETAILS
S7.XX STRUCTURAL STEEL DETAILS
S8.XX LIGHT GAGE METAL STUD WALL DETAILS
S9.XX CEILING RETROFIT DETAILS
S10.XX SHELVING ANCHORAGE

- VERIFY ALL DIMENSIONS, ELEVATIONS, FINISH SURFACES, SLOPES, DRAINS, SLAB DEPRESSIONS, SLAB OPENINGS, CURBS, ETC WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF CONSTRUCTION.
- 3. PENETRATIONS NOT SHOWN IN PLAN SHALL BE BROUGHT TO THE SEOR'S ATTENTIONS PRIOR TO THE INSTALLATION OF WORK.
- 4. DO NOT DAMAGE EXISTING FOUNDATIONS DURING SLAB REMOVAL AND TRENCHING.

CHECKE Checker DATE 11/01/2024

LEVEL 3 FLOOR





PLAN NOTES:

REFER TO THE S-SERIES SHEETS LISTED BELOW FOR THE CORRESPONDING INFORMATION:

<u>INFORMATION</u> SHEET SERIES

ABBREVIATIONS, SYMBOLS & SHEET INDEX STRUCTURAL GENERAL NOTES \$0.01 \$4.XX \$5.XX EXTERIOR ELEVATIONS BUILDING SECTIONS S6.XX CONCRETE DETAILS STRUCTURAL STEEL DETAILS
LIGHT GAGE METAL STUD WALL DETAILS
CEILING RETROFIT DETAILS
SHELVING ANCHORAGE S7.XX S8.XX S9.XX

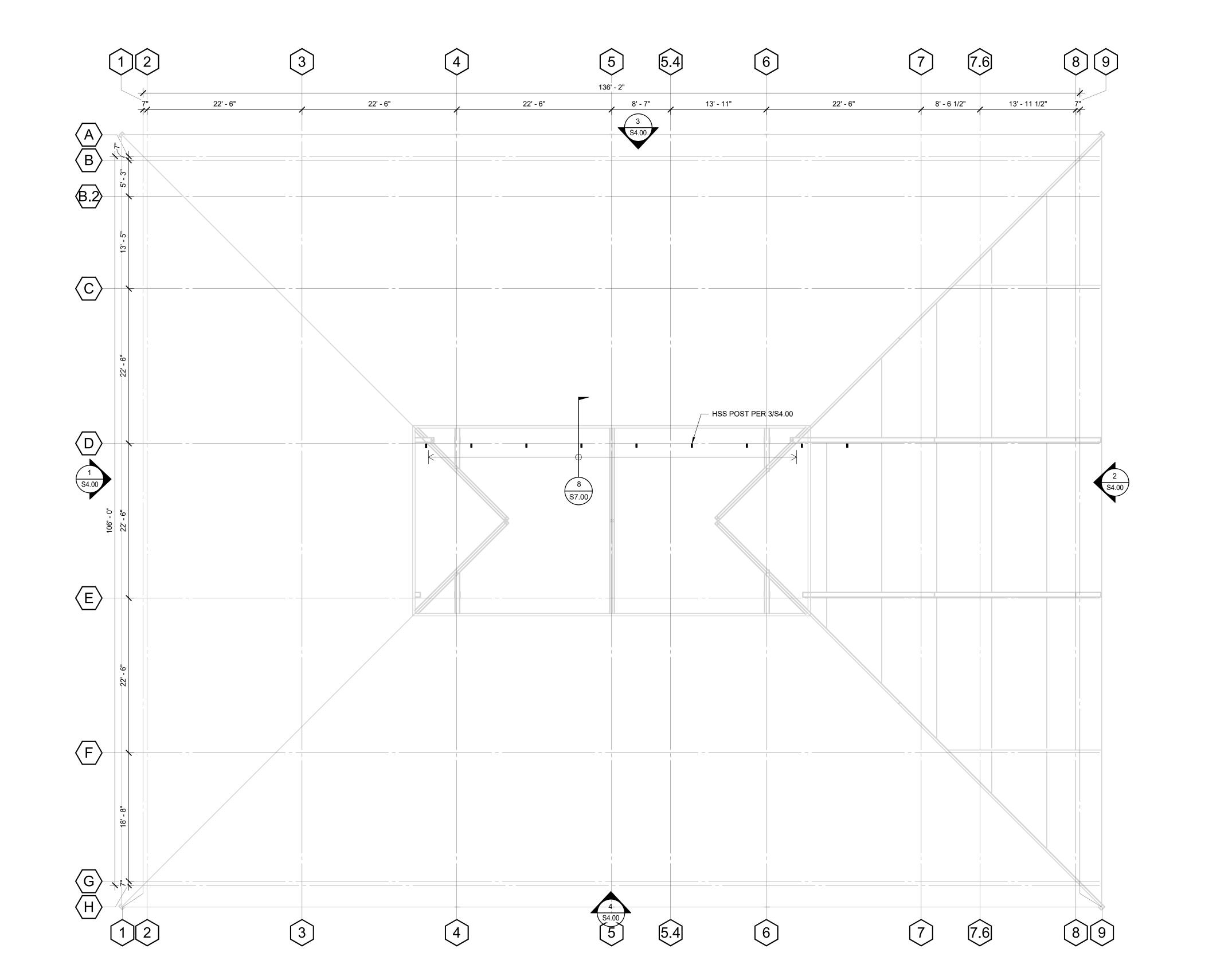
- 2. VERIFY ALL DIMENSIONS, ELEVATIONS, FINISH SURFACES, SLOPES, DRAINS, SLAB DEPRESSIONS, SLAB OPENINGS, CURBS, ETC WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF CONSTRUCTION.
- PENETRATIONS NOT SHOWN IN PLAN SHALL BE BROUGHT TO THE SEOR'S ATTENTIONS PRIOR TO THE INSTALLATION OF WORK.
- 4. DO NOT DAMAGE EXISTING FOUNDATIONS DURING SLAB REMOVAL AND TRENCHING.

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CHECKE Checker DATE 11/01/2024

ROOF FRAMING





PLAN NOTES:

REFER TO THE S-SERIES SHEETS LISTED BELOW FOR THE CORRESPONDING INFORMATION:

SHEET SERIES <u>INFORMATION</u> ABBREVIATIONS, SYMBOLS & SHEET INDEX STRUCTURAL GENERAL NOTES EXTERIOR ELEVATIONS BUILDING SECTIONS CONCRETE DETAILS STRUCTURAL STEEL DETAILS LIGHT GAGE METAL STUD WALL DETAILS CEILING RETROFIT DETAILS SHELVING ANCHORAGE \$0.00 \$0.01 \$4.XX \$5.XX S6.XX S7.XX S8.XX S9.XX

- VERIFY ALL DIMENSIONS, ELEVATIONS, FINISH SURFACES, SLOPES, DRAINS, SLAB DEPRESSIONS, SLAB OPENINGS, CURBS, ETC WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF CONSTRUCTION.
- PENETRATIONS NOT SHOWN IN PLAN SHALL BE BROUGHT TO THE SEOR'S ATTENTIONS PRIOR TO THE INSTALLATION OF WORK.
- 4. DO NOT DAMAGE EXISTING FOUNDATIONS DURING SLAB REMOVAL AND TRENCHING.

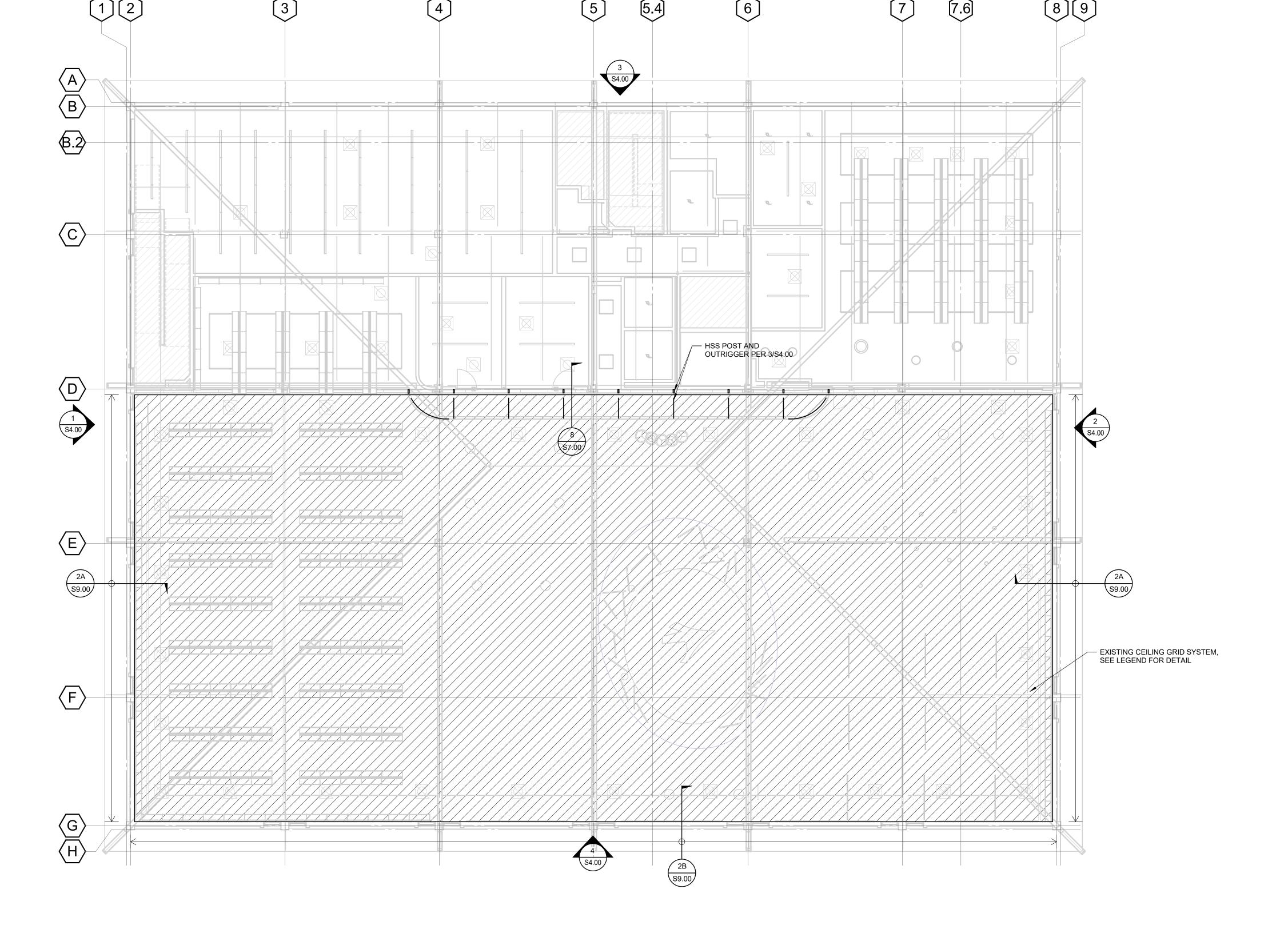
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REFLECTED CEILING PLAN

SECOND FLOOR -



PLAN NOTES:

 REFER TO THE S-SERIES SHEETS LISTED BELOW FOR THE CORRESPONDING INFORMATION:

SHEET SERIES INFORMATION

S0.00

ABBREVIATIONS, SYMBOLS & SHEET INDEX
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S8.XX

LIGHT GAGE METAL STUD WALL DETAILS
S9.XX

CEILING RETROFIT DETAILS
S10.XX

SHELVING ANCHORAGE

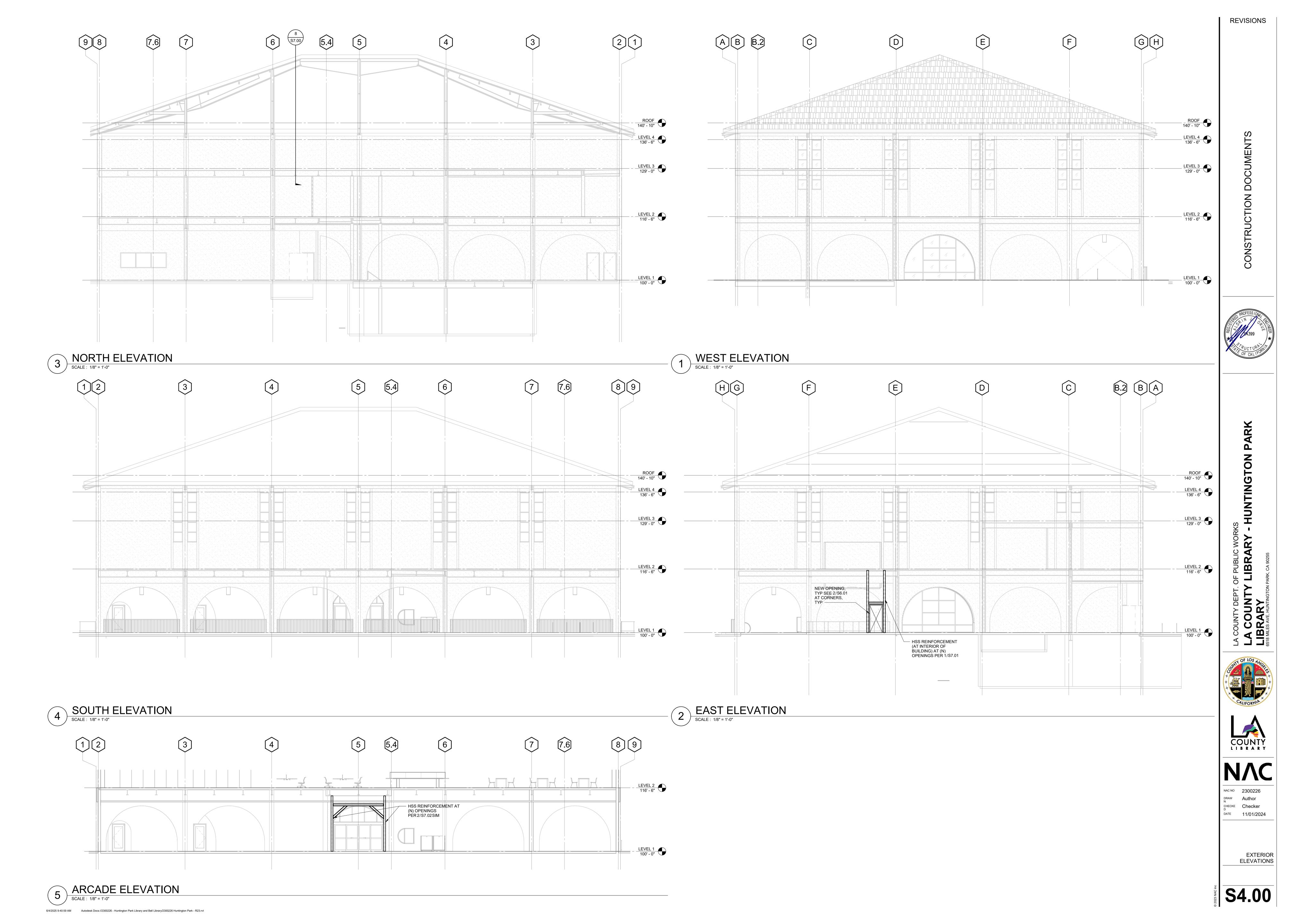
- VERIFY ALL DIMENSIONS, ELEVATIONS, FINISH SURFACES, SLOPES, DRAINS, SLAB DEPRESSIONS, SLAB OPENINGS, CURBS, ETC WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF CONSTRUCTION.
- 3. PENETRATIONS NOT SHOWN IN PLAN SHALL BE BROUGHT TO THE SEOR'S ATTENTIONS PRIOR TO THE INSTALLATION OF WORK.
- 4. DO NOT DAMAGE EXISTING FOUNDATIONS DURING SLAB REMOVAL AND TRENCHING.

LEGEND

E) Di

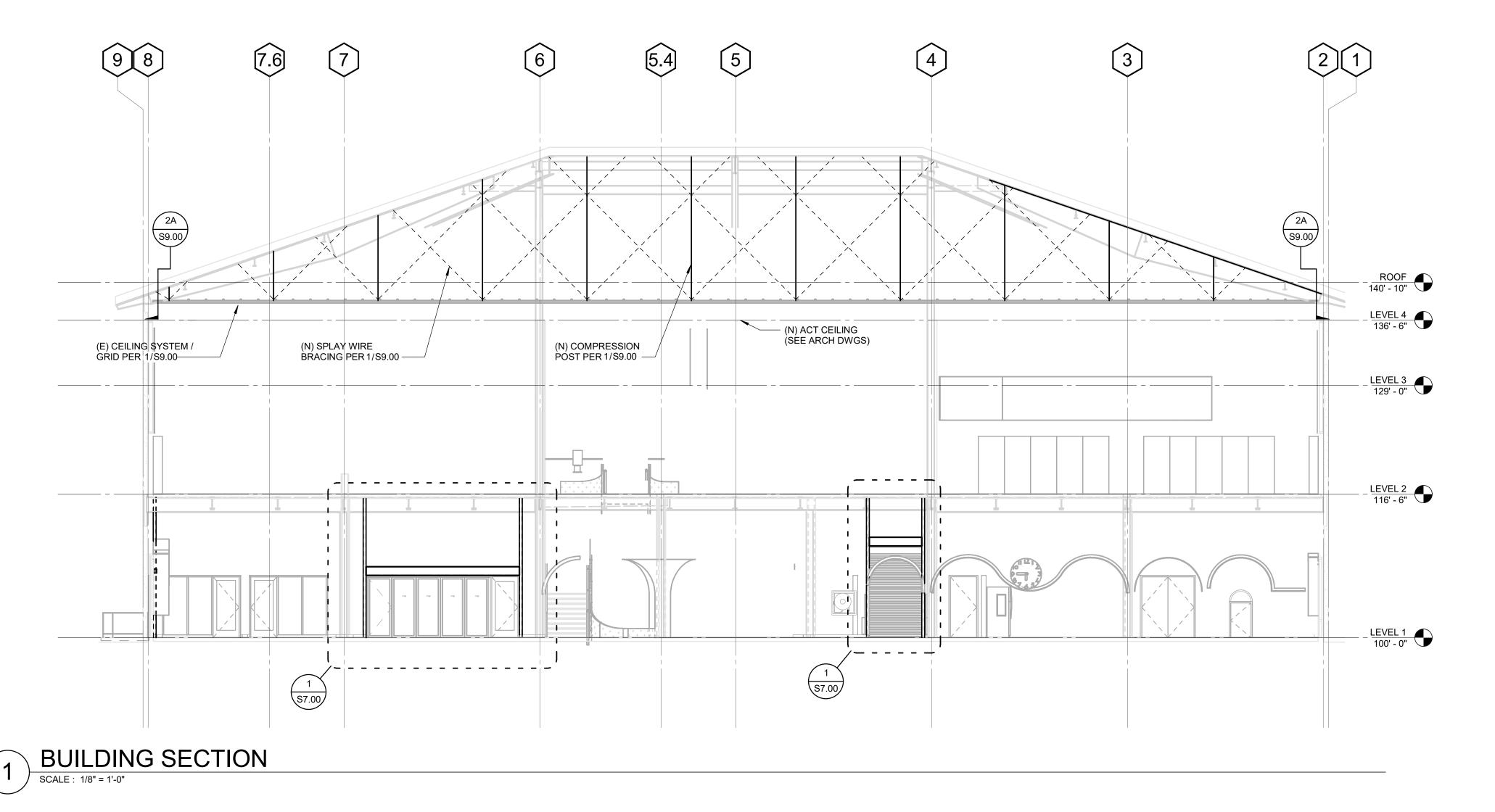
EXTENTS OF (E) CEILING SUPPORT SYSTEM / GRID PER DETAIL 1/S9.00

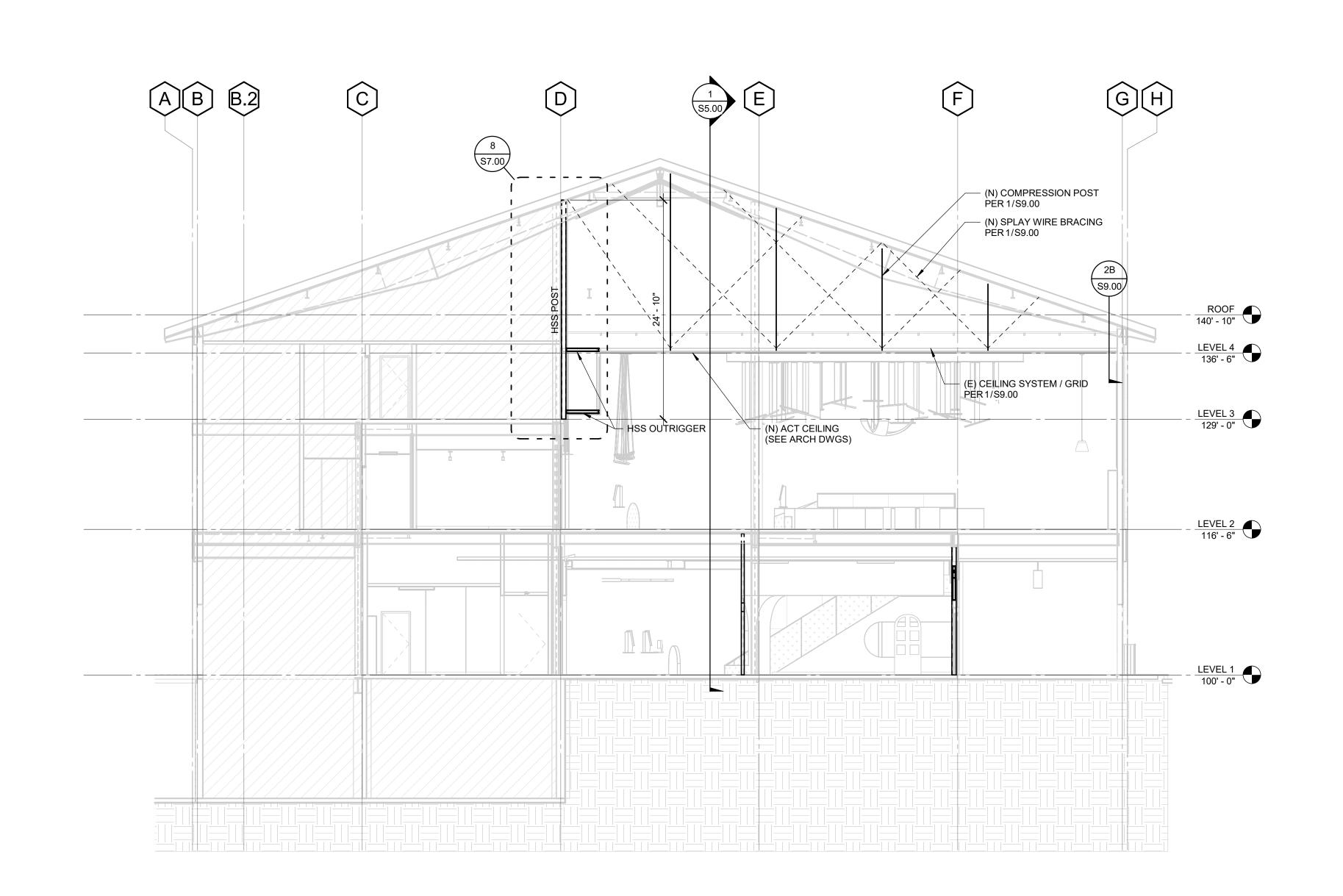
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BUILDING SECTIONS

S5.00





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> TYPICAL CONCRETE DETAILS

S6.00

CURB PER ARCH -SAW-CUT - 2x PLANKS (TYP.) CONT MIN CLEANOUT CONTRACTION/CONTROL FORMED JOINT CONTRACTION/CONTROL SAW-CUT JOINT — CUT BACK SPALL — FILL JOINT W/ ELASTOMERIC JOINT SEALANT **EXPANSION / ISOLATION JOINT CONSTRUCTION JOINT** NOTES:

1. CONTRACTION/CONTROL JOINTS TO BE LOCATED ALONG COLUMN CENTER LINES AND AT 15'-0"OC EACH WAY MAXIMUM SPACING. 2. IF SAW-CUT CONTROL JOINT TO BE USED, SAW-CUT WITHIN 24 HOURS OF POUR. 3. CONSTRUCTION JOINTS TO BE LOCATED AT 60'-0" OC MAX IN EACH DIRECTION.

> NOTE:
> FORMWORK NOT PERMITTED BELOW GRADE (UNLESS SIDES OF THE FTG ARE FULLY FORMED)

STAKES NOT PERMITTED IN FOOTING SECTION

EQUIPMENT PER MEP

EA WAY

- CONC SOG

PER PLAN

1 1/2" CLR

ADD'L #4 @16"OC

SLAB ON GRADE JOINTS

CONCRETE SLAB ON GRADE - 20 MIL (MIN) POLYETHYLENE PER PLAN -VAPOR RETARDER (SEE NOTE 2), SEE SPECIFICATIONS - 2" THK DRY, COMPACTIBLE, SELF-DRAINING GRANULAR FILL (NO SAND) ABOVE VAPOR RETARDER RECOMPACTED ENGINEERED FILL OR UNDISTURBED / NATURAL SOILS PER GEOTECHNICAL INVESTIGATION REPORT

— FILL W/ SEMI-RIGID

JOINT SEALANT

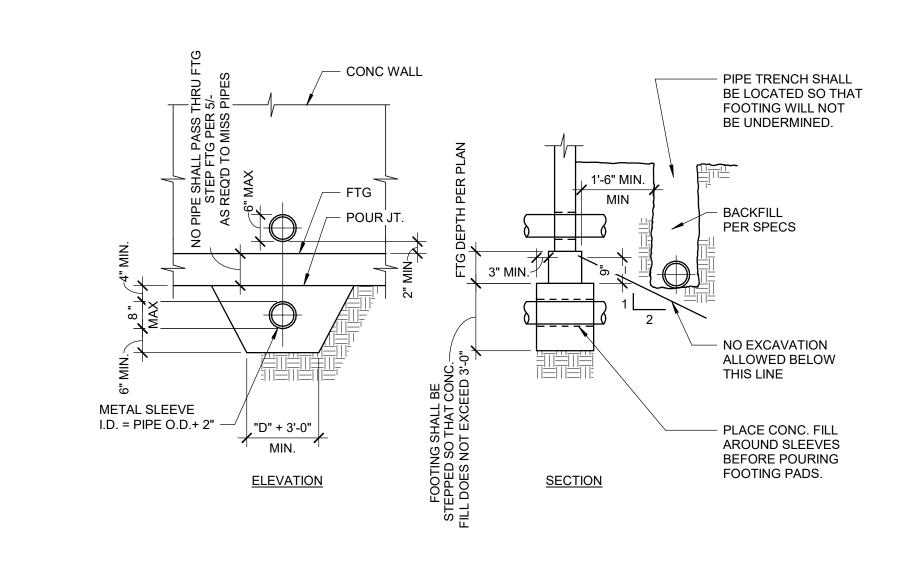
- PREVENT BOND

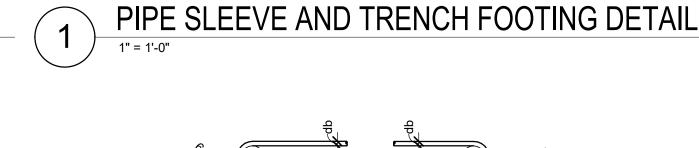
-1 1/2" CONT KEY

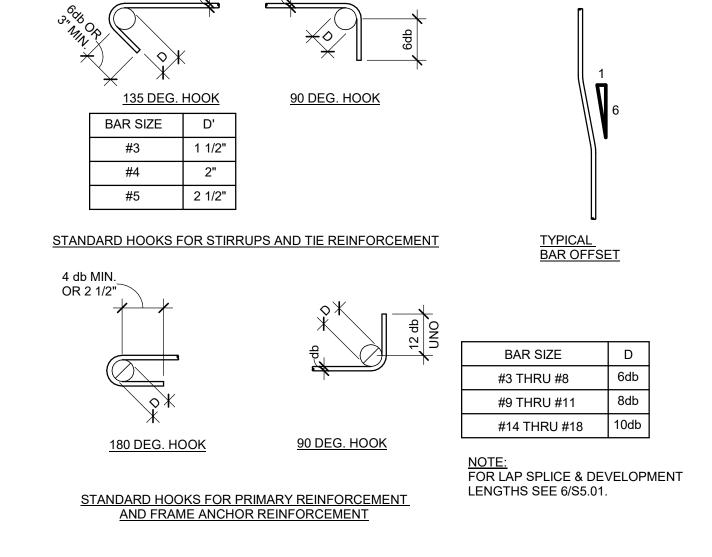
---- 1:4 SLOPE MAX

- 1. SEE GEOTECHNICAL REPORT FOR ADDITIONAL SUBGRADE REQUIREMENTS BELOW THE SLAB.
- 2. VAPOR RETARDER SHALL CONFORM TO ASTM E1745. INSTALLATION OF VAPOR RETARDER SHALL CONFORM TO ASTM E1643.

TYPICAL SLAB ON GRADE







CL WALL & KEY

`--+--

WALL TO FOOTING CONSTRUCTION JOINT - SECTION VIEW

PER SCHEDULE

WALL VERTICAL CONSTRUCTION JOINT - PLAN VIEW

CONCRETE CONSTRUCTION JOINTS

KEY PER (S6.00)

- CONC OR CMU

CONC FTG

PER PLAN

WALL PER PLAN

CONC WALLPER PLAN

WALL REINF TYP —

- 1 1/2"x3 1/2"x 0'-8" LONG KEY AT 2'-8"OC

NOTE:
REINFORCEMENT NOT SHOWN FOR CLARITY.

CONCRETE REINFORCING BAR BENDING DETAILS

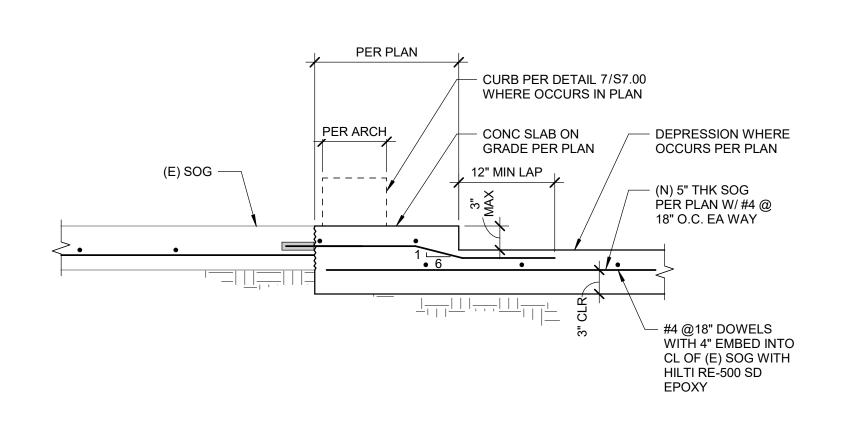
HOUSE KEEPING/RAISED PAD ON GRADE

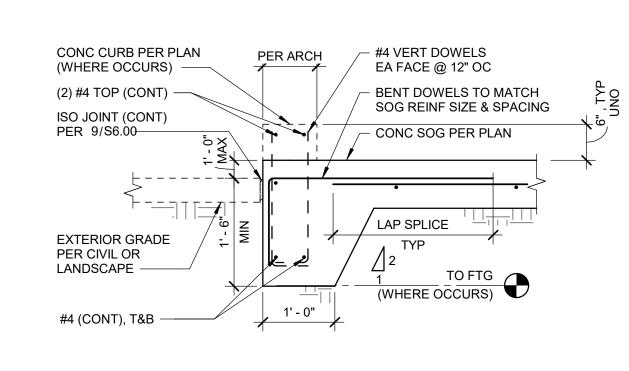
WIDTH SHOWN +2"

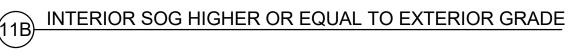
MANDATORY MINIMUM FORMWORK

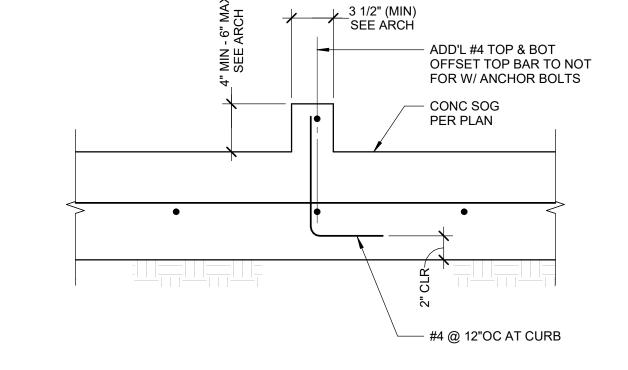
1" = 1'-0"

SEE MECH

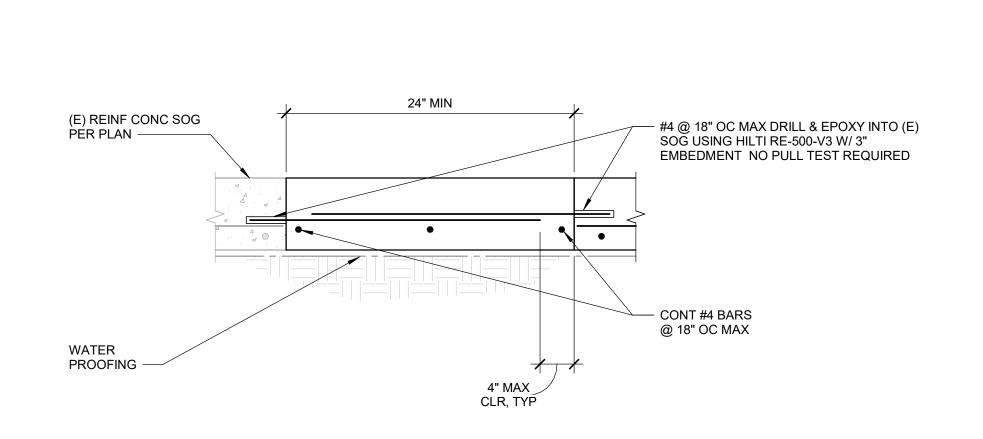


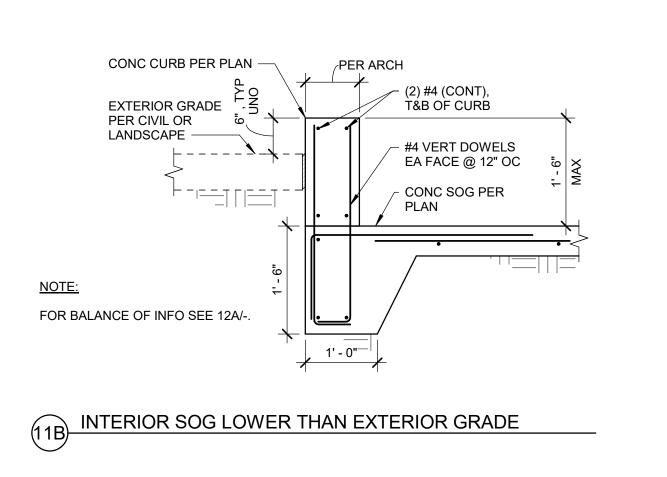


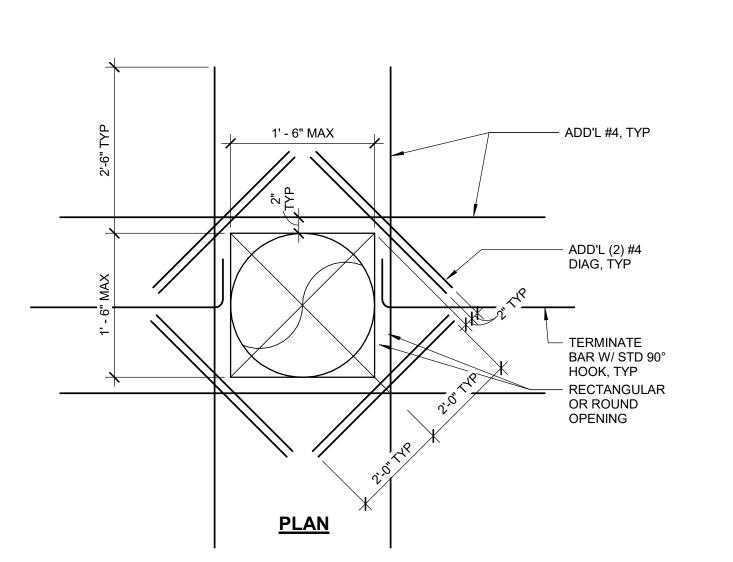




SLAB ON GRADE THICKNESS TRANSITION

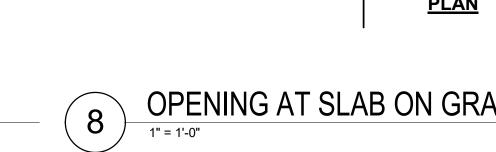








INTERIOR CONC CURB





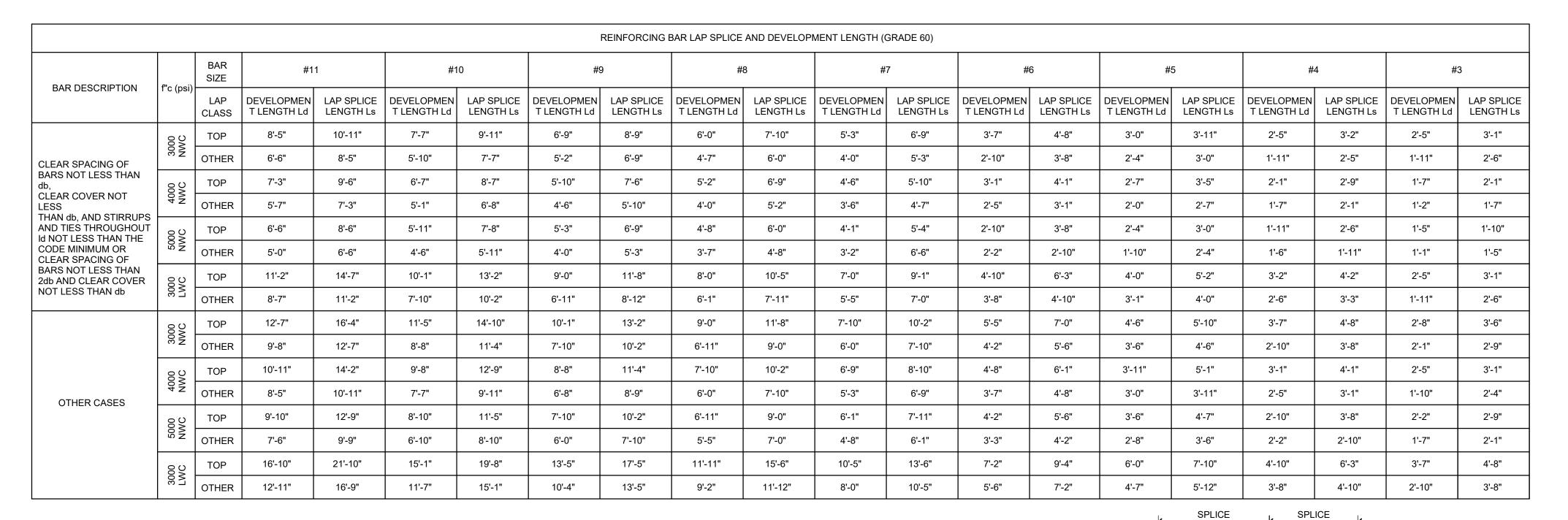
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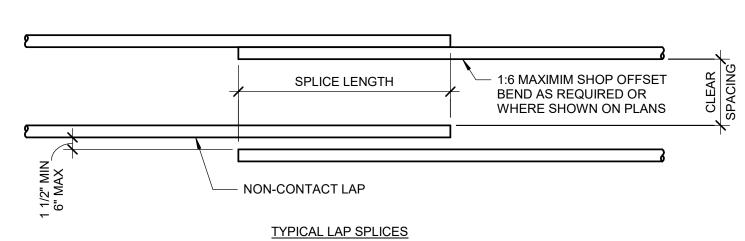
CONC SOG EDGE

CHECKE JR DATE 11/01/2024

> TYPICAL CONCRETE DETAILS

56	01



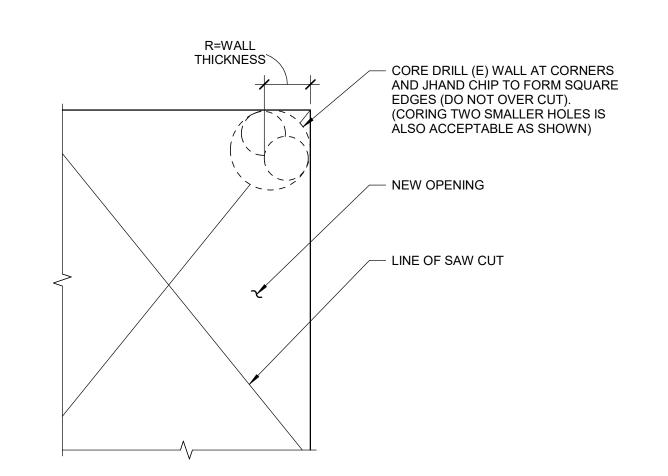


LENGHT STAGGERED SPLICING

1. BAR SPLICES NOT COVERED BY THIS SCHEDULE ARE SPECIFICALLY DETAILED AND DIMENSIONED ON PLANS.

- 2. TOP BARS ARE HORIZONTAL REINFORCEMENT WITH MORE THAN 12" OF CONCRETE CAST BELOW BAR.
- 3. OTHER BARS ARE VERTICAL REINFORCEMENT, AND HORIZONTAL REINFORCEMENT WITH LESS THAN 12" OF CONCRETE CAST BELOW BAR.
- 4. COVER DESIGNATES CLEAR CONCRETE COVER FROM SPLICED BAR TO FACE OF MEMBER. SPACING DESIGNATES CENTER - TO - CENTER SPACING OF SPLICED BARS.
- 5. FOR SHEAR WALLS, SPLICE LENGTHS FOR VERTICAL BARS TO FOOTING DOWELS SHALL BE INCREASED BY A
- FACTOR OF 1.25 TIMES 'Ls' FROM TABLE.
- 6. Ls INDICATES LAP SPLICE, Ld INDICATES DEVELOPMENT LENGTH.

DEVELOPMENT LENGTH AND LAP SPLICES OF CONCRETE STEEL REINFORCING BARS



2 WALL OPENING DETAIL
SCALE: 1" = 1'-0"

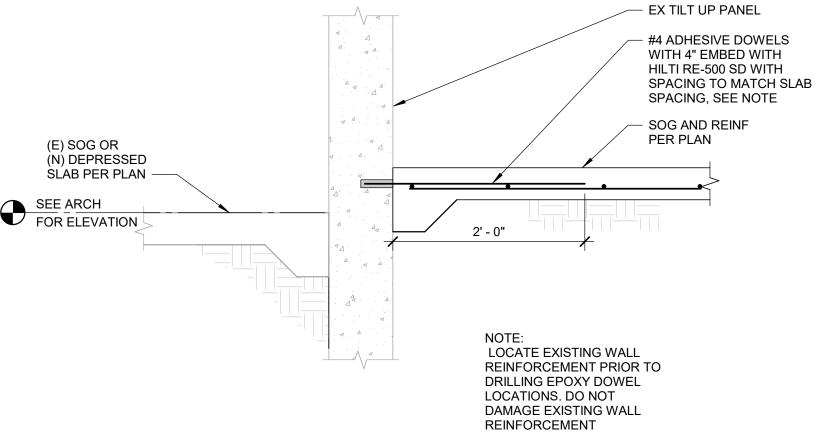
LENGTH

LAP SPLICE SHALL INCLUDE (3) CROSS- WIRES

BUT NOT LESS THAN 12"

WELDED WIRE FABRIC

- CROSS WIRE



3 SCALE: 1" = 1'-0"



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TYPICAL STEEL FRAMING DETAILS

S7.00

(E) Wx BEAM OR (E) ROOF DECK WHERE OCCURS PER PLAN (E) WF WHEN IT ALIGNS WITH HSS WHERE RF DECK OCCURS - 3/8"x5" WIDE PL W/ 1/2"Ø SNUG TIGHT THRU-BOLT IN HORIZ LSL HOLE. PROVIDE AISC STD PL WASHER NORTH HSS4x2x1/4 OUTRIGGER - 3/8"x6" WIDE KERF

HSS POST TO TOP CONNECTION

PL CENTERED ON

BM SLOPE TO MATCH

(E) DECK SLOPE -

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

(E) FINISH TO REMAIN (SÉE NOTE ON 8/-) —

1/2" NON-SHRINK **GROUT AT CONT**

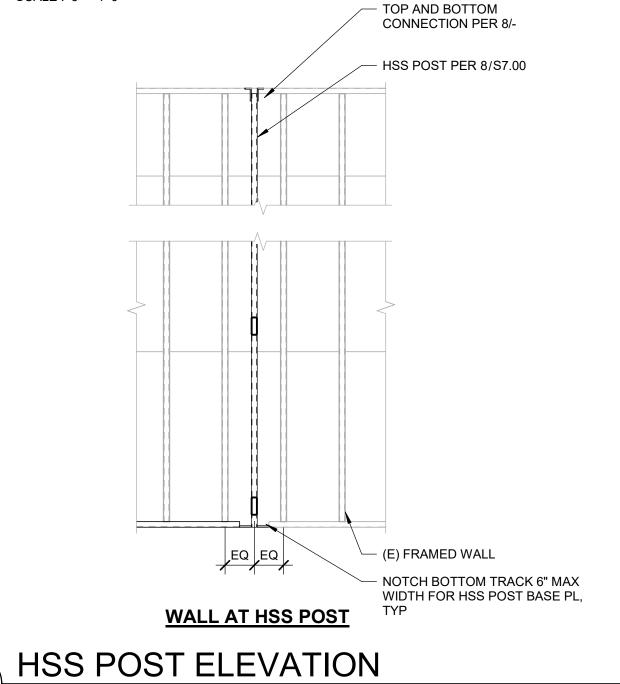
OPTION —

(E) 4" SLAB -

DIMENSIONS IN FIELD.

SCALE : 1" = 1'-0"

(12) JAIVID I C



- (E) 6" STUD WALL

1/4" STIFFENER

PLATE AT CL

\$7.00

— (E) WF BEAM

PL1/4x4x4 ES W/ VERT LSL HOLE

- 5/8"Ø THRU-BOLT

CENTERED IN HOLE

1. ALIGN BASE PLATE TO BE INSIDE ARCH LIGHT GA STUD WALLS. CONTRACTOR TO VIF ALL

STUDS BY NON-DESTRUCTIVE MEANS. DO NOT DAMAGE THE REINFORCEMENT OR BEAM

HSS POST TO BOTTOM CONNECTION

2. LOCATE THE REINFORCEMENT AND STUDS BY NON-DESTRUCTIVE MEANS. DO NOT DAMAGE THE REINFORCEMENT OR BEAM STUDS. LOCATE THE REINFORCEMENT AND

(N) MURAFLEX WALL. SEE PARTIAL ELEVATION ARCH. SEE DETAIL 7/S8.01 FOR STUD DROP AND 3C \$8.00 DIAGONAL BRACE ——— 1. LOCATE THE REINFORCEMENT BY NON-DESTRUCTIVE MEANS. DO NOT DAMAGE THE REINFORCEMENT. 3. CFS IS NOT DESIGNED AS A WALKABLE SURFACE OR TO SUPPORT THE WEIGHT OF STORAGE ETC.

HSS6x2x1/4 @ 8'-0" O.C.

(E) FINISH TO REMAIN -

LV = 25'-6" MAX -

(E) CONCRETE

(E) Wx BEAM ——

FRAMING FOR ARCHITECHTURAL FEATURE

HSS4x2x1/4 OUTRIGGER

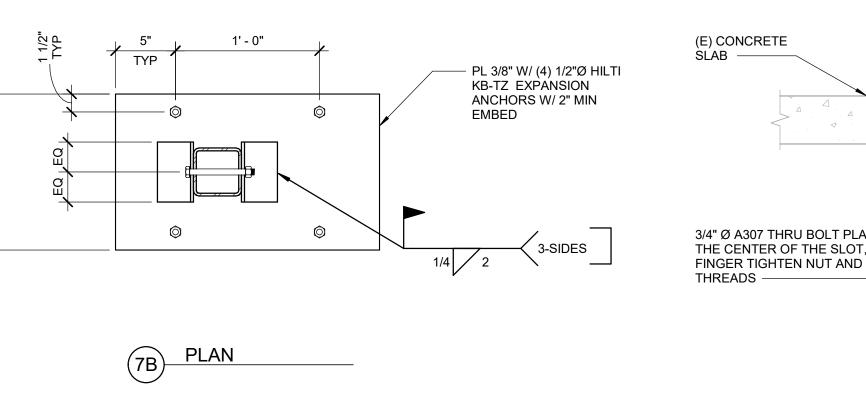
4' - 0" MAX SEE ARCH

- (E) EDGE OF SLAB (VIF) (2) 3/8"Ø HILTI ŘÍWK HUS EZ W/ 2" MIN EMBED -PL 6x 3 1/2"x3/8" NORTH SOUTH W/ (2) 3/8"Ø HILTI KWÌK HUS EZ W/ 2" MIN EMBED'T IN ----||=====**=**| HORIZ LSL HOLES 3/16 - HSS PER 8/S7.00 BASE PLATE 9A DETAIL
3" = 1'-0"

- HSS PER 1/-BASE PLATE 3/8" WIDTH TO BE 3/4" LARGER THAN POST -ALIGN BASE PLATE TO BE INSIDE ARCH LIGHT GA STUD WALLS

HSS POST TO BOTTOM CONNECTION

SCALE: 3" = 1'-0"



_____LEVEL ______EL = PER ARCH - L5x3x1/4 x 0'-5" (LLV) ON EA SIDE OF HSS POST W/ 2" VERTICAL SLOTTED HOLE - HSS PER ELEVATION

SEE DETAIL 3/SM-9102 FOR THE INFORMATION NOT SHOWN.

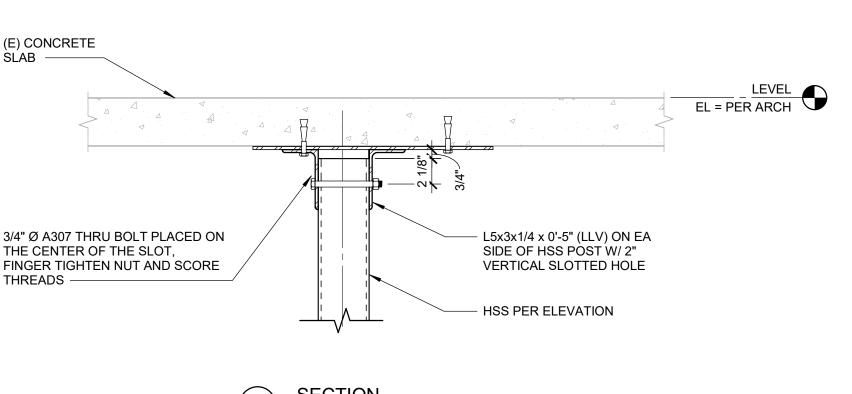
TYPICAL JAMB TOP CONNECTION

_1/2" GAP ____MAX ____ HSS POST PER 1/- — HSS POST TO BEAM CONNECTION

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

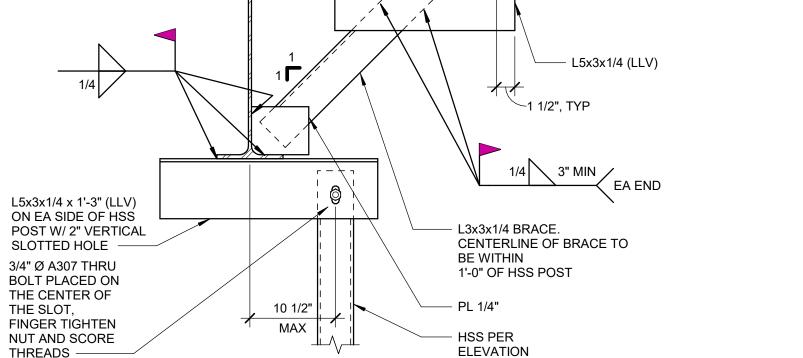
(2) 3/8" DIA HILTI KB-TZ W/ 2"

L2x2x1/4 ANGLE x LENGTH TO MATCH HSS BEAM



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JAMB TOP CONNECTION



1. LOCATE THE REINFORCEMENT BY NON-DESTRUCTIVE MEANS. DO NOT DAMAGE THE REBAR. JAMB TOP CONNECTION TO Wx BEAM

FOR ATTACH TO WX BM WHERE OCCURS, TYP

HSS12x4x1/4 -

(E) CONCRETE

4 S7.00

- HSS BEAM

HSS POST

S7.00 ALTERNATE DETAIL WHERE

(E) CONCRETE

SLAB

PER ARCH 18'-0" MAX

PARTIAL ELEVATION

1. LOCATE THE REINFORCEMENT BY NON-DESTRUCTIVE MEANS. DO NOT

JAMB AND HEADER ELEVATION AT

ROLL UP DOOR AND OPERABLE PARTITION

DAMAGE THE REINFORCEMENT.

(E) CONCRETE

L5x3x1/4 x 1'-3" (LLV) ON EA

VERTICAL SLOTTED HOLE

THE CENTER OF THE SLOT, FINGER TIGHTEN NUT AND SCORE

DO NOT DAMAGE THE REBAR.

3/4" Ø A307 THRU BOLT PLACED ON

LOCATE THE REINFORCEMENT BY NON-DESTRUCTIVE MEANS.

(E) CONCRETE

SLAB -

TYPICAL JAMB TOP CONNECTION

SIDE OF HSS POST W/ 2"

SLAB -

OCCURS

EL = PER ARCH

EL = PER ARCH

– (2) 1/2"Ø HILTI KB-TZ EXPANSION ANCHORS W/

HSS PER ELEVATION

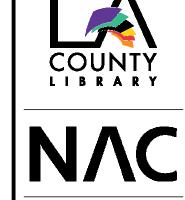
– 1/2"ø HILTI KB-TZ

W/ 2" MIN EMBED, TYP

EL = PER ARCH

2" MIN EMBED AT EA ANGLE

EL = PER ARCH



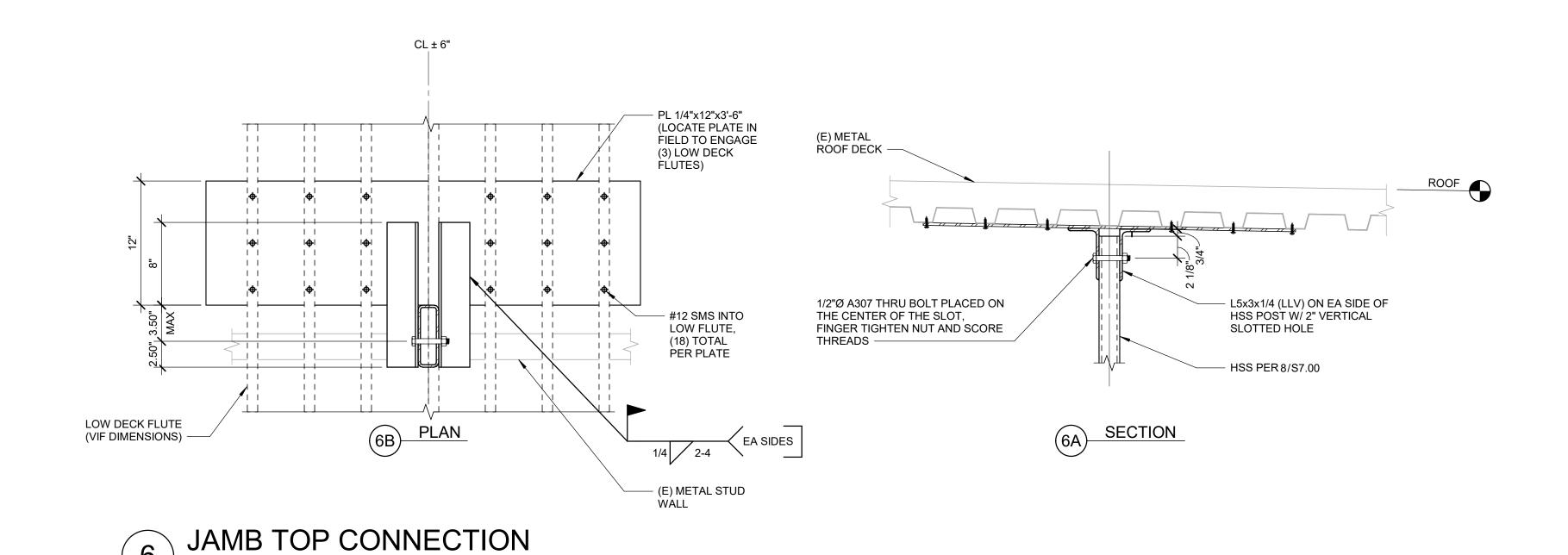
NAC NO 2300226 DRAW Author CHECKE Checker DATE 11/01/2024

TYPICAL STEEL FRAMING DETAILS

S7.01

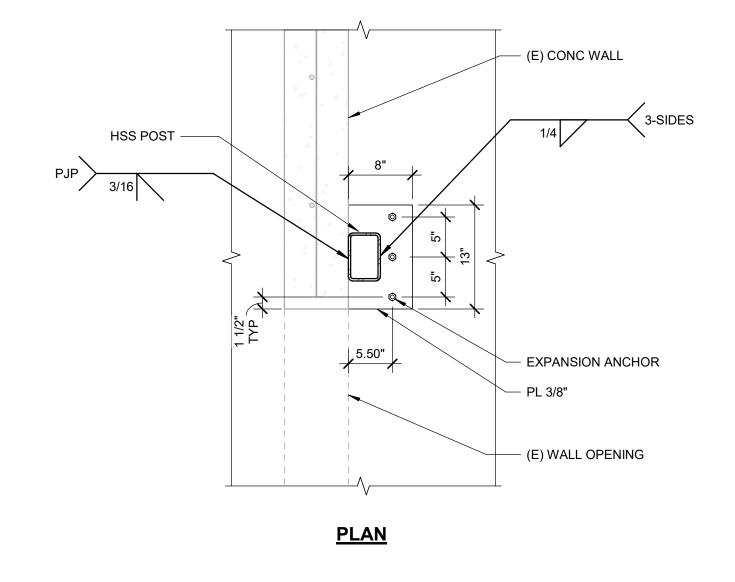
(E) CONC WALL — (E) REINF PÉR 4/S7.01 — — L3x3x3/8x0'-3" WITH 1/2"Ø HILTI KBTZ2 W/ 2" MIN EFF EMBED (ICC ESR-4561), TYP

LOCATE REINFORCING BARS IN EXISTING CONCRETE WALL AND SLAB BY NON-DESTRUCTIVE MEANS (GPR, PACHOMETER, ETC.) PRIOR TO PERFORMING ANY WORK. DAMAGE TO EXISTING REINFORCEMENT SHALL BE AVOIDED. HSS TO EXITING CMU WALL CONNECTION

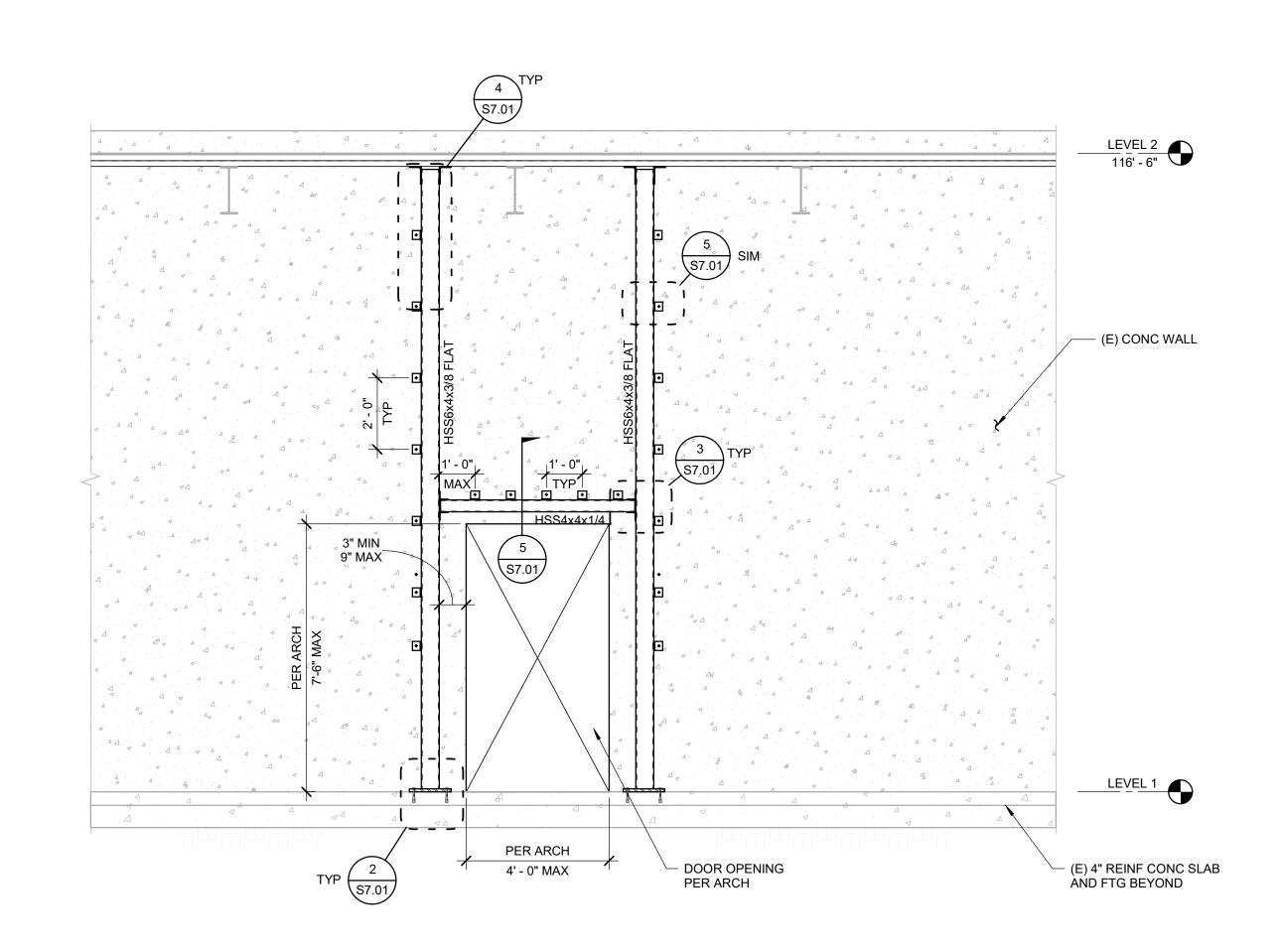


HSS JAMB PER ELEV – HSS PER ELEV (SEE ELEVATION FOR HSS BEAM ORIENTATION RELATIVE TO VERTICAL POST)

HSS TO HSS AT WINDOW WALL HSS FRAMING

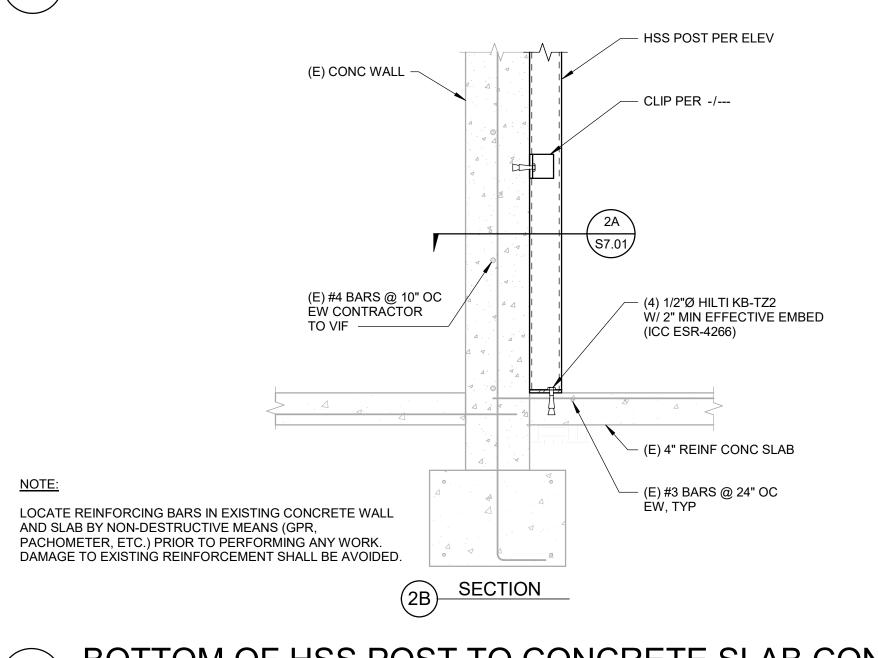


8 MAIN ENTRANCE POST ANCHORAGE
SCALE: 1" = 1'-0"

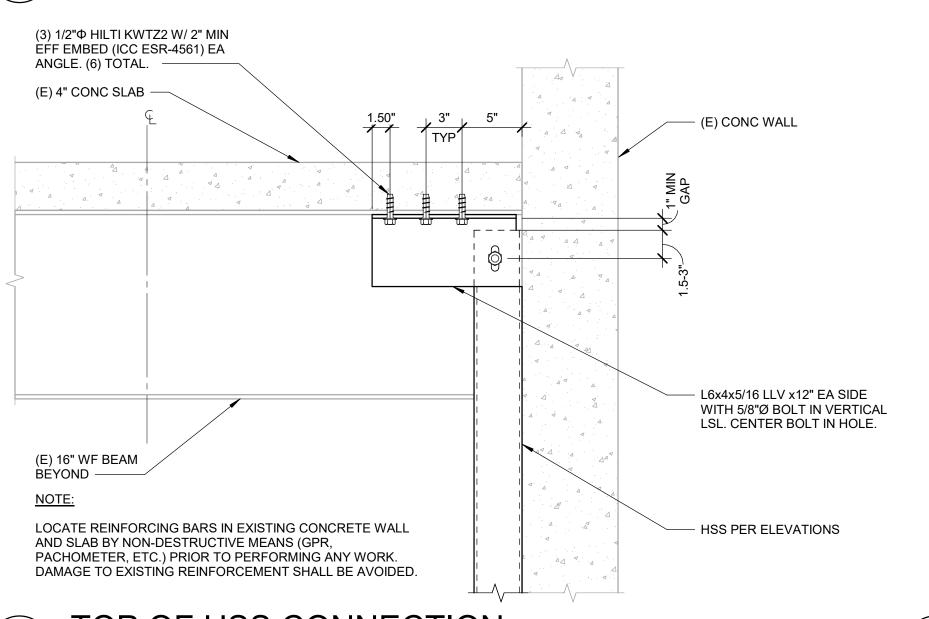


AT INTERIOR AND EXTERIOR CONDITIONS WHERE STRUCTURAL STEEL IS EXPOSED TO VIEW - ALL STEEL COLUMNS & BRACES TO BE AESS
CATEGORY 3; ALL STEEL OVERHEAD MEMBERS TO BE AESS CATEGORY 2.

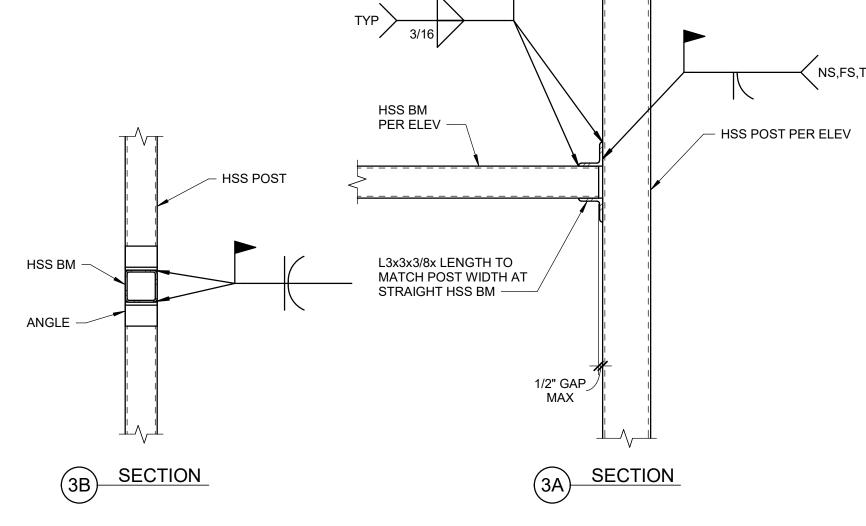
WALL ELEVATION AT NEW DOOR OR WINDOW OPENING



BOTTOM OF HSS POST TO CONCRETE SLAB CONN SCALE : 1" = 1'-0"



TOP OF HSS CONNECTION SCALE: 1 1/2" = 1'-0"



- HSS POST

+ EXPANSION ANCHOR

PL 3/8' x 20" WIDE

(E) CONC WALL

HSS BM TO HSS POST CONNECTION AT NEW DOOR OPENING

SCALE: 1" = 1'-0"

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CONSTRUCTION DOCUMENTS

PROFESSIONAL PROFE

LA COUNTY DEPT. OF PUBLIC WORKS

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NAC NO 2300226

DRAW Author
CHECKE Checker
DATE 11/01/2024

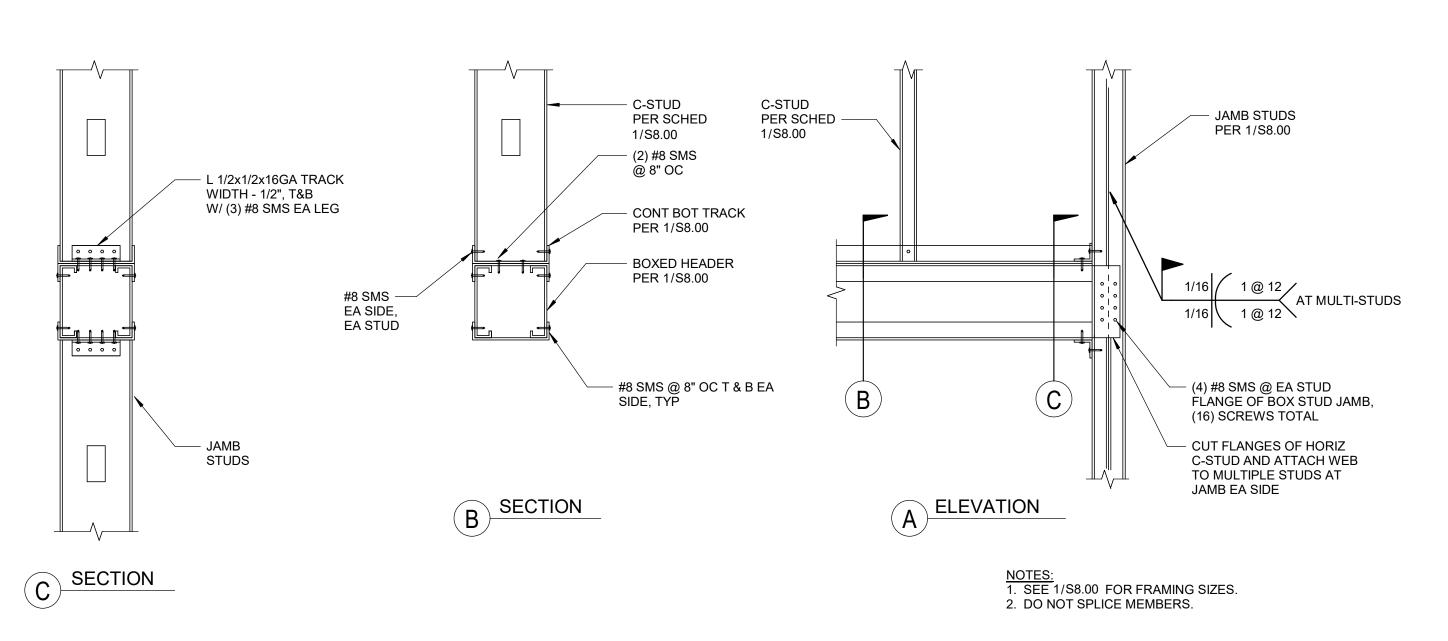
TYPICAL STEEL FRAMING DETAILS

S7.02

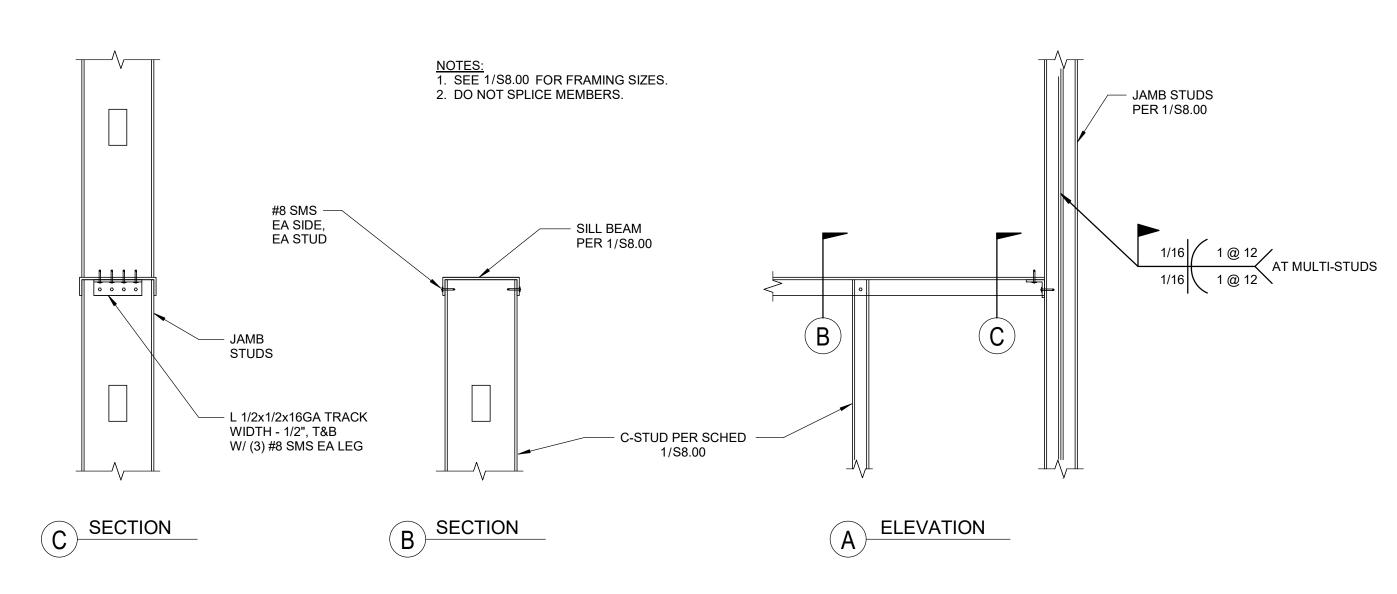
DATE 11/01/2024

METAL STUD WALL DETAILS

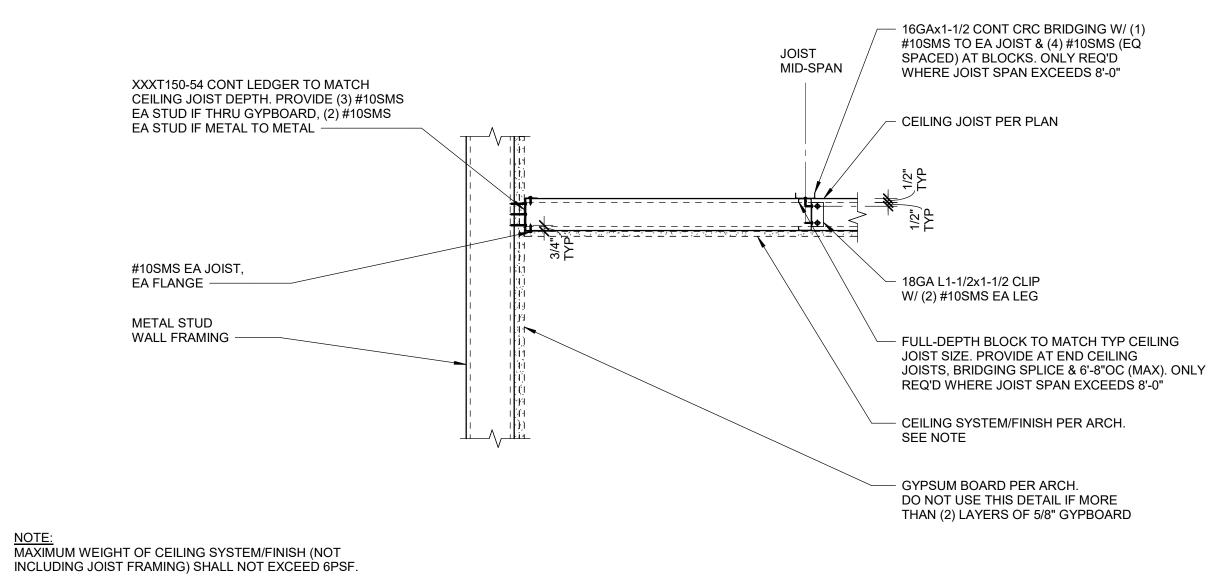
TYPICAL INTERIOR



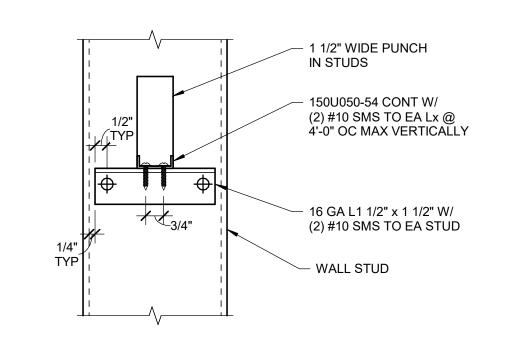
BOXED HEADER BEAM & CONN TO JAMB STUDS SCALE: N.T.S.



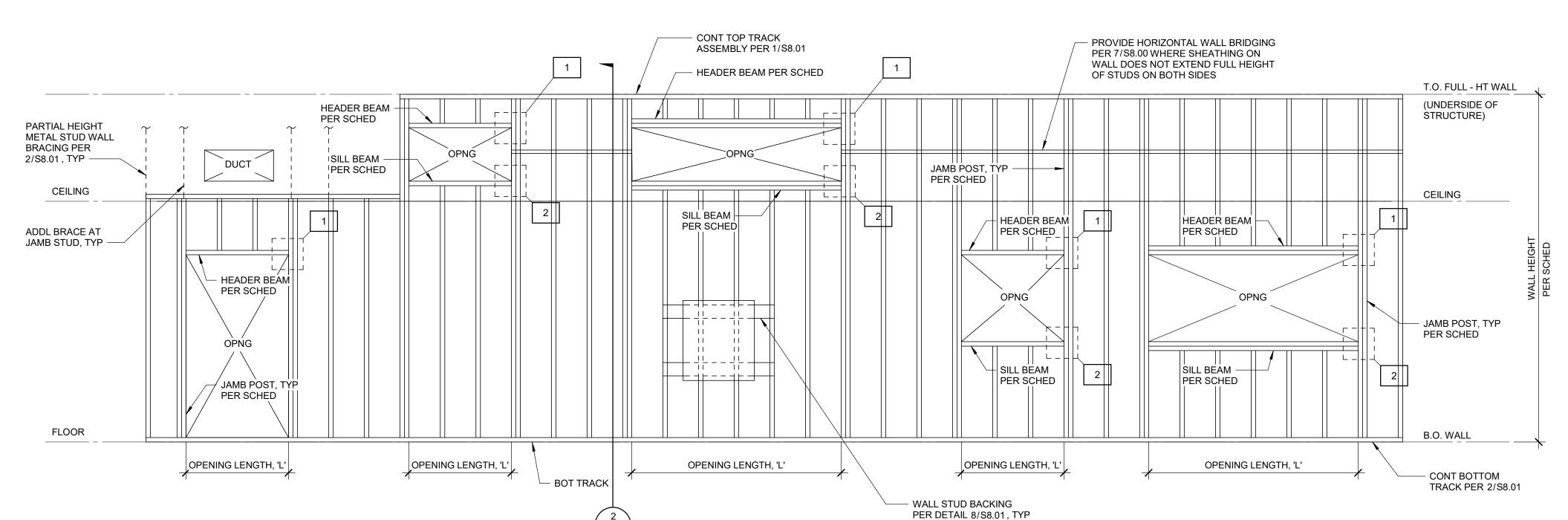
SILL BEAM & CONN TO JAMB STUDS



INTERIOR CEILING JOIST TO WALL & SOFFIT CONN SCALE: 1" = 1'-0"



- 1. BRIDGING IS NOT REQUIRED WHERE SHEATHING IS INSTALLED FULL-HEIGHT ON BOTH SIDES OF WALL.
- 2. BRIDGING IS NOT REQUIRED WHERE EXTERIOR SIDE IS FULLY SHEATHED AND INTERIOR SHEATHING IS STOPPED 6" ABOVE
- 3. PROVIDE BRIDGING @ 4' MAX O.C. ALONG LENGTH WHERE SHEATHING IS NOT PROVIDED AT BOTH SIDES OF WALL.
- WALL STUD BRIDGING



MEMBER	4" DEPTH	FRAMING	6" DEPTH FRAMING			
WEWBER	FRAMING	DETAIL	FRAMING	DETAIL		
TYP WALL STUD SIZE & SPACING	400S125-43 @ 16" OC (NOTE 7) 400S200-43 @ 16" OC	2/\$8.01	600S125-43 @16" OC	2/\$8.01		
HEADER BEAM LENGTH L ≤ 3'-6"	400S162-33 + 400T150-30	2/\$8.00	(2) 600S125-30 + 600T150-30 T&B	4/\$8.00		
HEADER BEAM LENGTH 3'-6" < L ≤ 6'-6"	(2) 400S125-43 + 400T150-30 T&B	4/S8.00	(2) 600S137-33 + 600T150-30 T&B	4/\$8.00		
HEADER BEAM LENGTH 6'-6" < L ≤ 9'-0"	(2) 400S162-43 + 400T200-43 T&B	4/S8.00	(2) 600S137-43 + 600T150-33 T&B	4/\$8.00		
SILL BEAM LENGTH L ≤ 3'-6"	400T150-30	3/\$8.00	600T150-30	3/\$8.00		
SILL BEAM LENGTH 3'-6" < L ≤ 6'-6"	400T150-30	5/\$8.00	600T150-30	5/\$8.00		
JAMB STUDS AT OPNG LENGTH L ≤ 3'-6"	(1) 400S200-43	2,3,4/\$8.00 2\$/8.01	(2) 600S162-33	2,3,4/\$8.0 2/\$8.01		
JAMB STUDS AT OPNG LENGTH 3'-6" < L ≤ 6'-6"	(2) 400S200-43	2,3,4,5/\$8.00, 2/\$8.01	(2) 600S200-33	2,3,4,5/S8.0 2/S.801		
JAMB STUDS AT OPNG LENGTH 6'-6" < L ≤ 9'-0" (NOTE 8)	(2) 400S250-54	2,4/\$8.00 2/\$8.01	(2) 600S162-43	2,4/\$8.00 2/\$8.01		
HANGING STUDS (NOTE 6)	400S250-33 @ 16" OC	3/\$8.01	N/A	N/A		

\$8.01

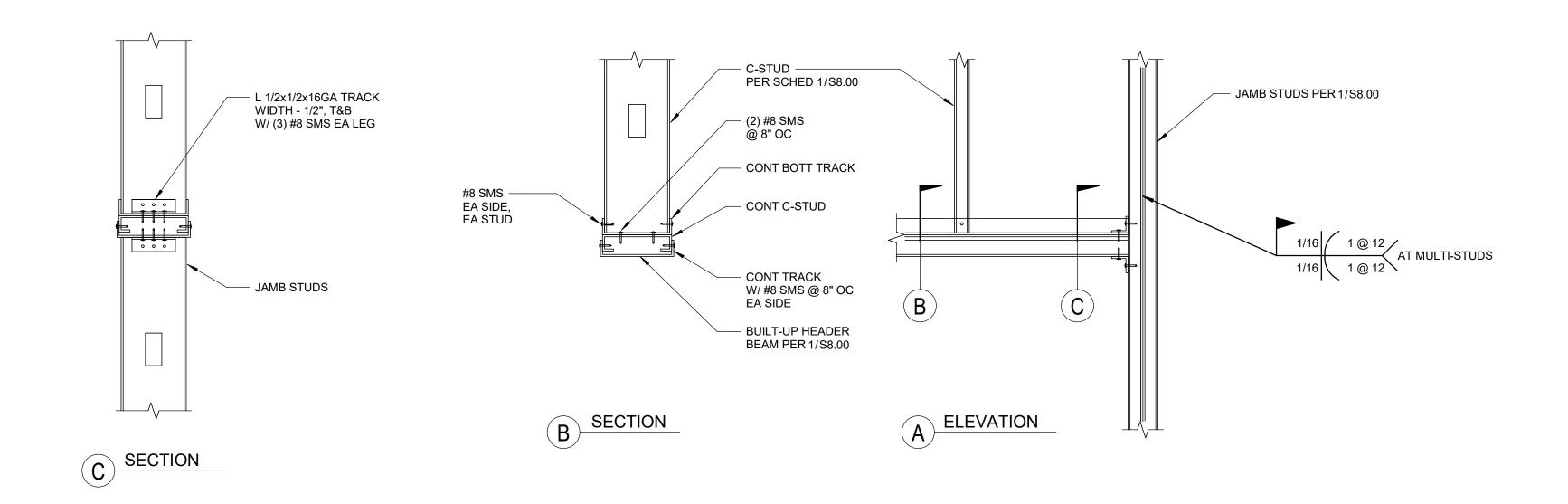
FRAMING SCHEDULE NOTES:

- 1. TYP WALL STUDS ARE NOT DESIGNED TO SUPPORT MILLWORK/CABINETS UNO. 2. (2) 5/8" GYPBOARD LAYERS EACH SIDE MAX FOR TYP WALL STUDS UNO. 3. WALL STUDS ARE DESIGNED FOR A MAXIMUM OUT OF PLANE DEFLECTION OF HEIGHT/240 (UNO).
- 4. WALL STUDS SHALL HAVE XXXT150-XX TOP & BOTTOM TRACKS THAT MATCH DEPTH AND GAUGE OF TYPICAL WALL STUD. 5. SILL AND HEADER BEAMS SHALL BE CONSTRUCTED OF CONTINUOUS
- UNPUNCHED STUDS AND TRACKS. 6. HANGING STUDS SHALL USE XXXT150-54 TOP TRACKS.
- 7. WHERE REFERENCED ON SCHEDULE, (1) 5/8" GYPBOARD LAYERS EACH SIDE MAX. 8. WHERE REFERENCED ON SCHEDULE, NO SILLS MAY FRAME INTO JAMB STUDS. JAMB STUDS ARE ONLY DESIGNED FOR HEADER BEAM REACTIONS.

ELEVATION NOTES:

- HEADER BEAM TO JAMB POST CONNECTION PER DETAIL REFERENCED ON FRAMING SCHEDULE.
- 2 SILL BEAM TO JAMB POST CONNECTION PER DETAIL REFERENCED ON FRAMING SCHEDULE.

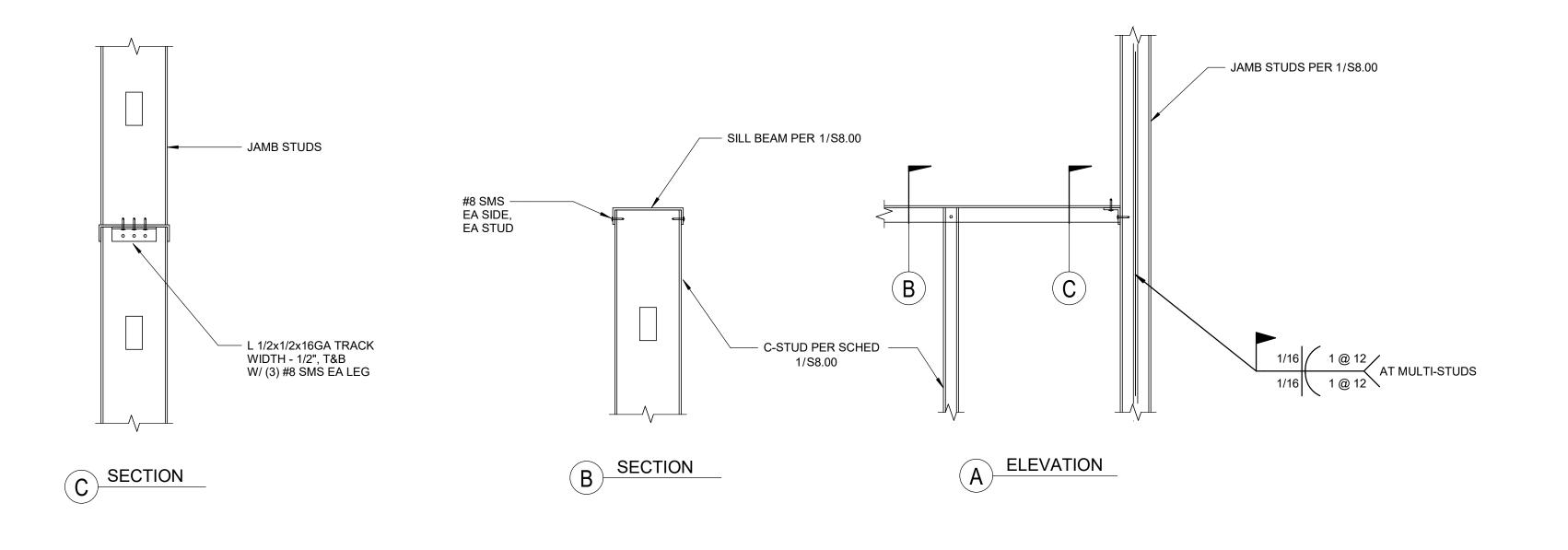
METAL STUD FRAMING - INTERIOR NON-LOAD BEARING WALL



BUILT-UP HEADER BEAM & CONN TO JAMB STUDS

NOTES: 1. SEE 1/S8.00 FOR FRAMING SIZES.

2. DO NOT SPLICE MEMBERS.



SILL BEAM & CONN TO JAMB STUDS SCALE : N.T.S.

NOTES:
1. SEE 1/S8.00 FOR FRAMING SIZES.

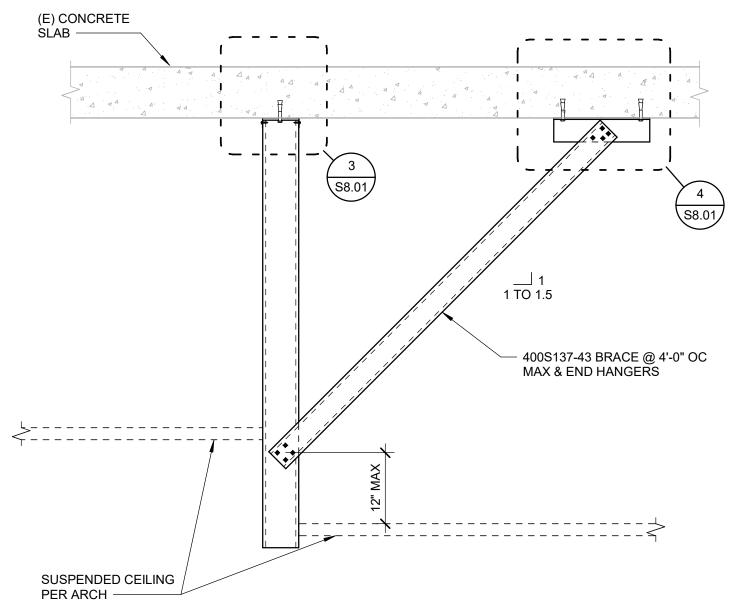
2. DO NOT SPLICE MEMBERS.

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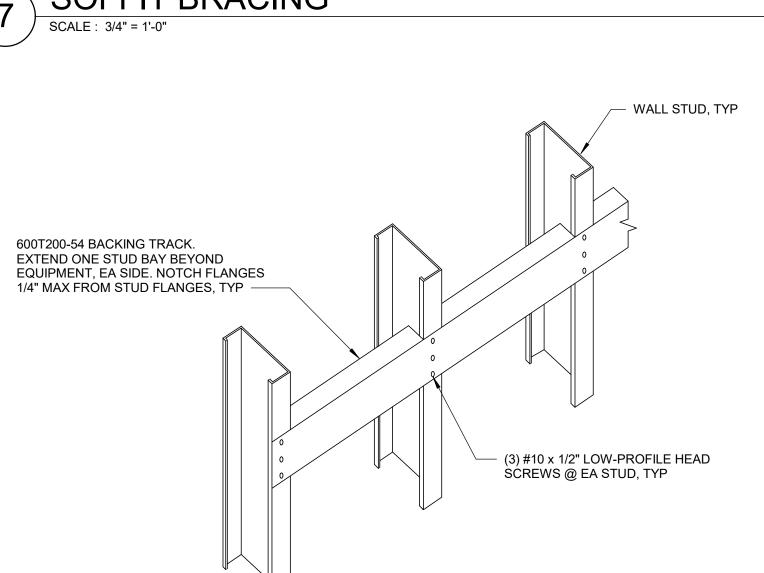
DATE 11/01/2024

TYPICAL INTERIOR METAL STUD WALL DETAILS

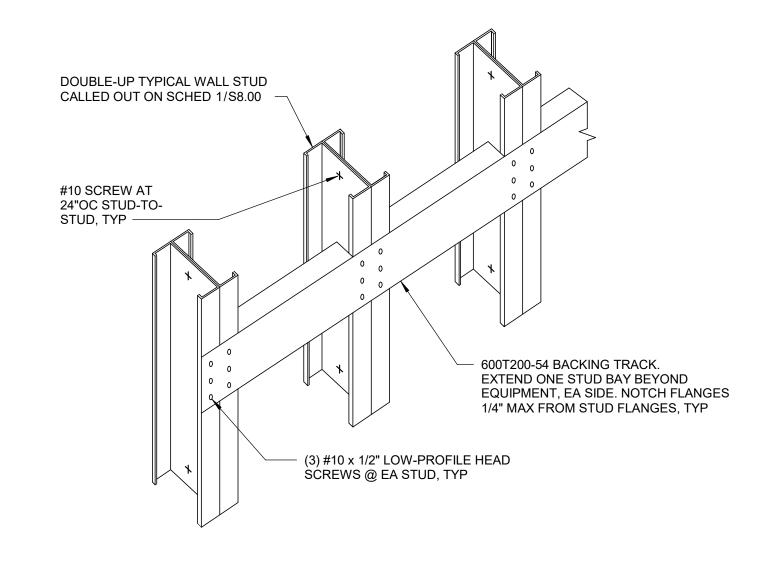
S8.01



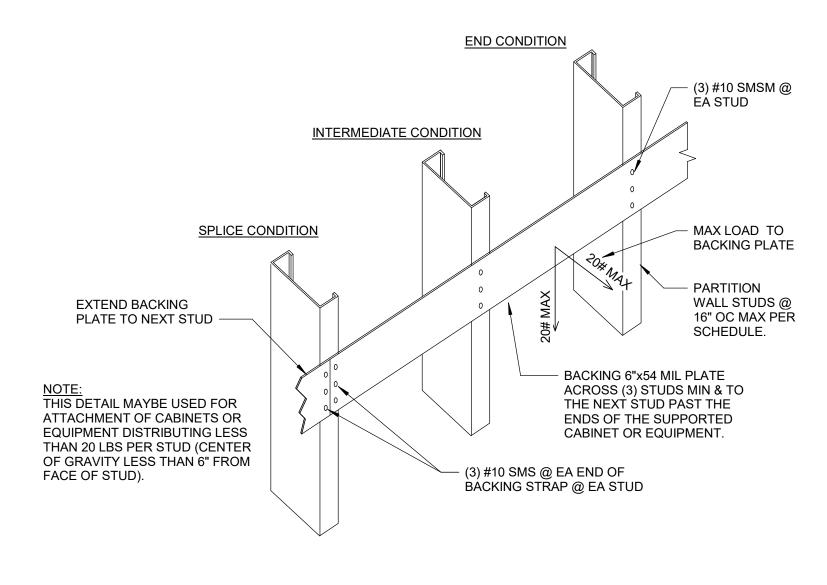






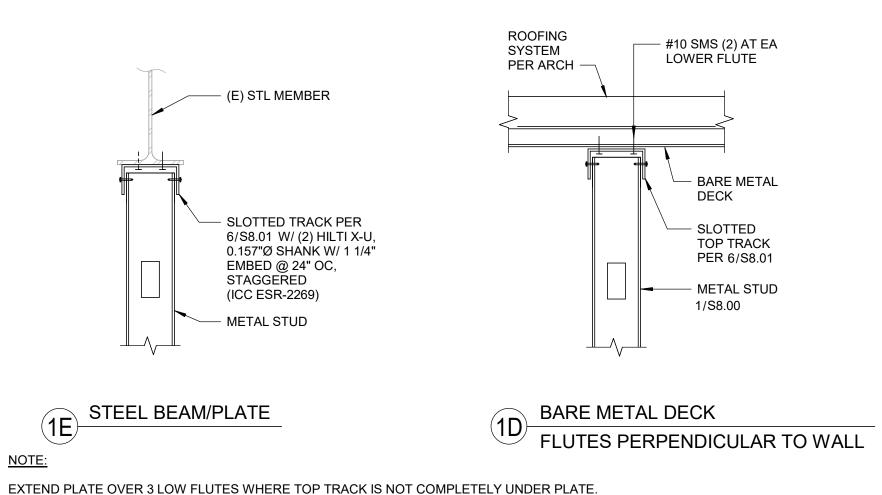


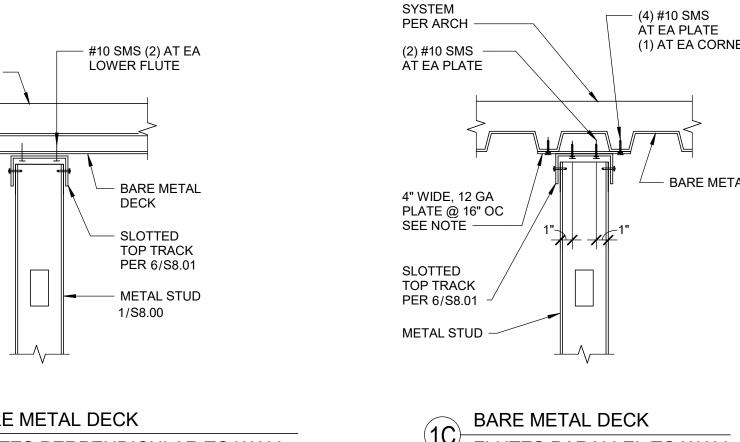
WALL MOUNTED ITEMS (100 LBS TO 300 LBS PER DOUBLE STUD)

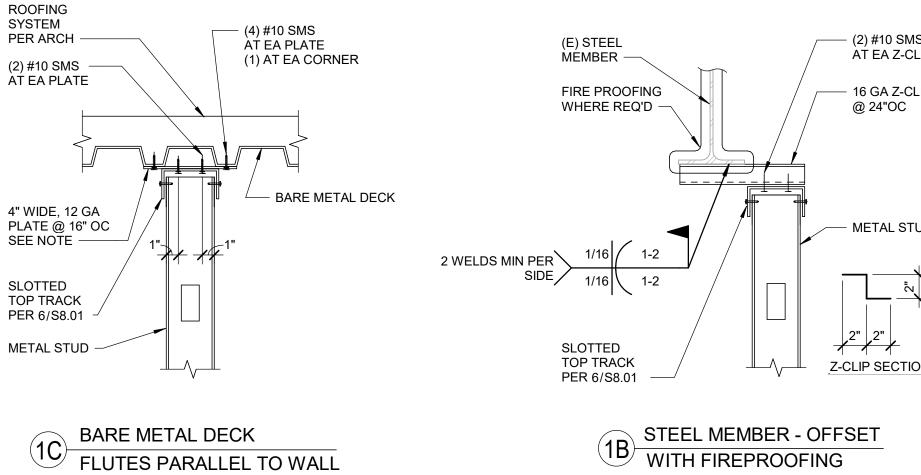


© WALL MOUNTED ITEMS (20 LBS MAX PER STUD)









- (2) HILTI KB TZ2 1/2"Ø x3" NOMINAL EMBED (ICC ESR-4266)

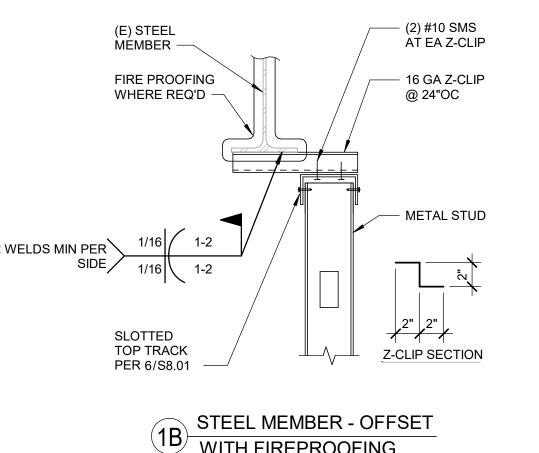
(E) CONCRETE

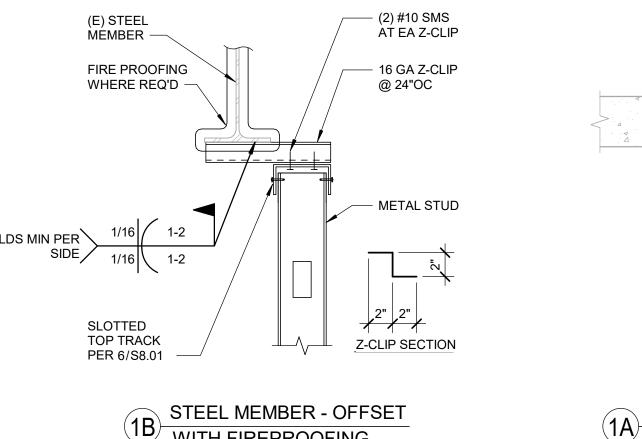
L4x2x16 GA(LLV)

— 362S137-33 BRACE @ 4'-0"OC MAX (UNO)

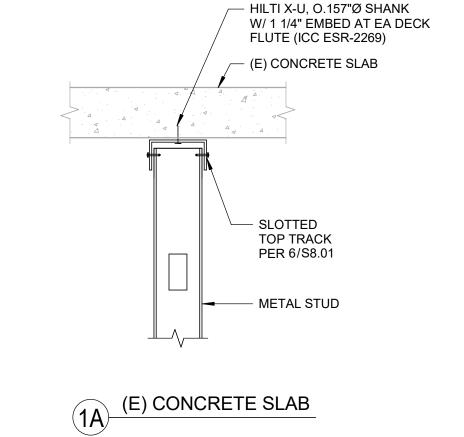
x1'-6" LONG

ŠĽAB





1B WITH FIREPROOFING



SLOTTED TRACK

#10 SMS EACH FLANGE,

- STUD PUNCH OUT, TYP

- METAL STUD - SEE

SCHEDULE 1/S8.00 BOTTOM TRACK - SEE

SCHEDULE 1/S8.00

- #10 SMS AT EACH

- BOTTOM TRACK

BRACE ANCHORAGE PER 4/S8.01

BRACE PER 4/S8.01 @ 4'-0" OC (MAX) & 2'-0"FROM WALL ENDS

#10 SMS @ EACH LEG

ALTERNATE BRACE AT EA

SPACING WHERE IT DOES

NOT CAUSE CONFLICT

- TOP TRACK - SEE

- STUD PUNCH OUT

- STUD PUNCH OUT

SCHEDULE1/S8.00

- #10 SMS AT EACH SIDE

- SEE SCHEDULE 1/S8.00

BOTTOM TRACK - SEE

EACH STUD, EACH FLANGE

- BOTTOM TRACK ANCHORAGE PER

SCHEDULE 1/S8.00

DETAIL 5/S8.01

- L4x2(LLV)x16 GA x 0'-4" LONG WITH (4)

ANCHORAGE PER DETAIL 5/-

STUD, EA FLANGES

SEE 6/S8.01

EACH STUD

TOP TRACK ANCHORAGE

PER 1/S8.01-

FULL HEIGHT WALL

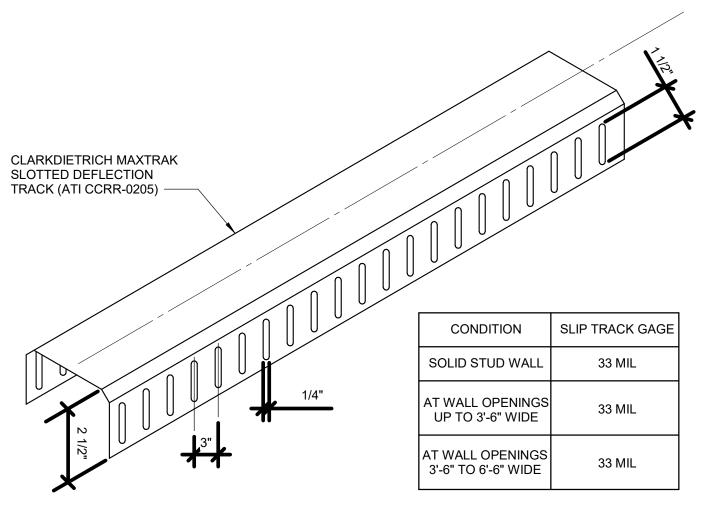
1.5 MAX

CEILING

PER ARCH

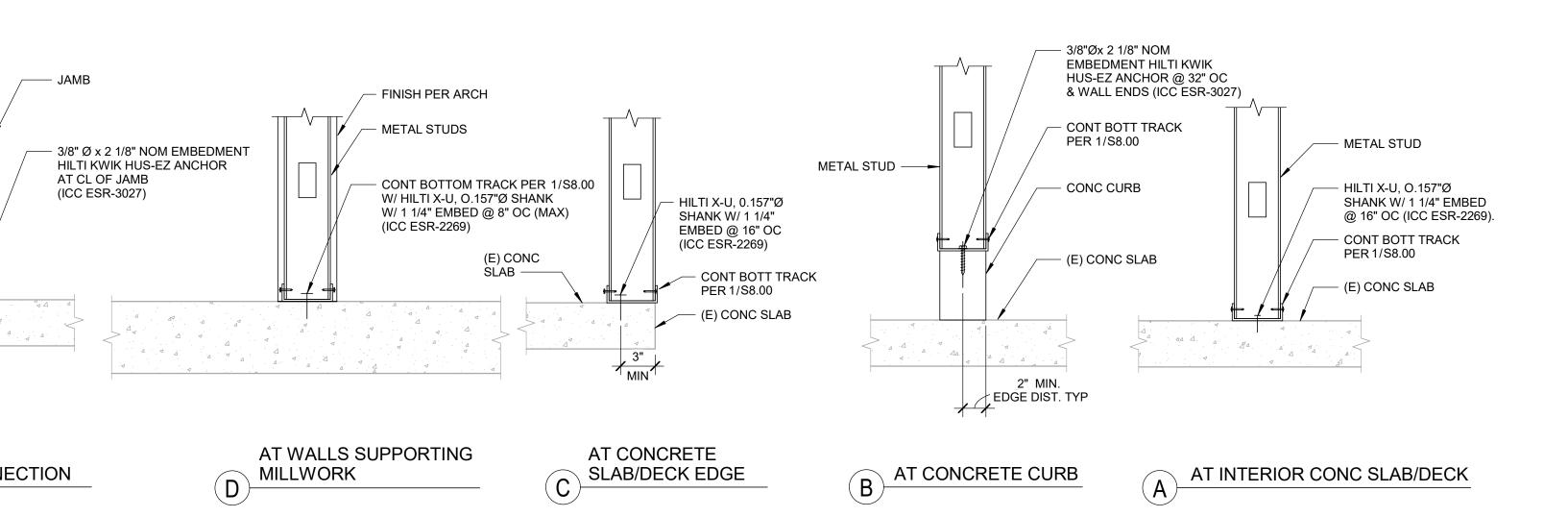
PARTIAL HEIGHT WALL

WALL TOP DEFLECTION/SLIP TRACK ANCHORAGE



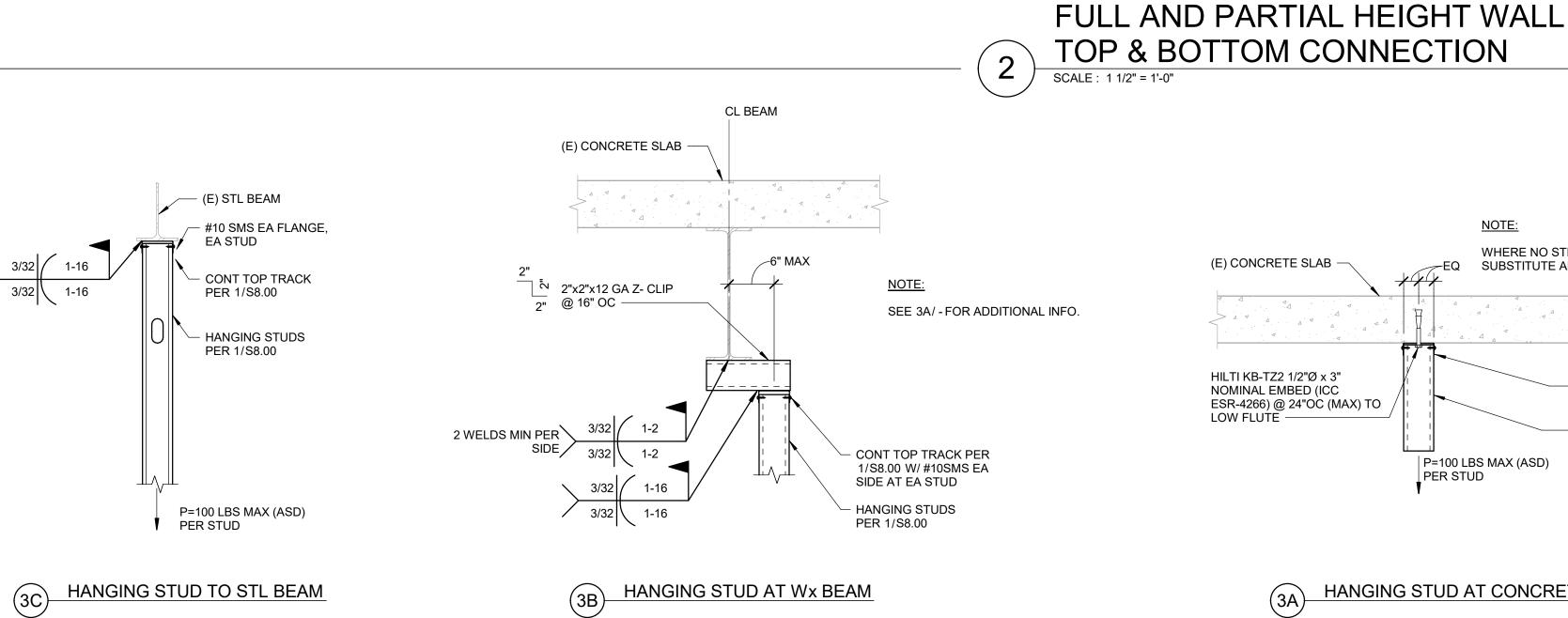
 AT WALL OPENINGS, EXTEND THICKER TRACK 2'-0"
 BEYOND EACH SIDE OF OPENING. 2. PLACE SCREWS IN CENTER OF SLOTTED HOLES.

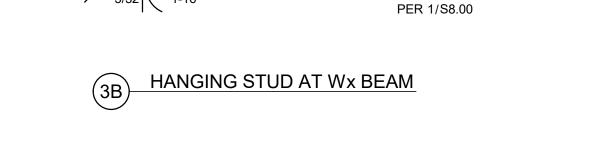


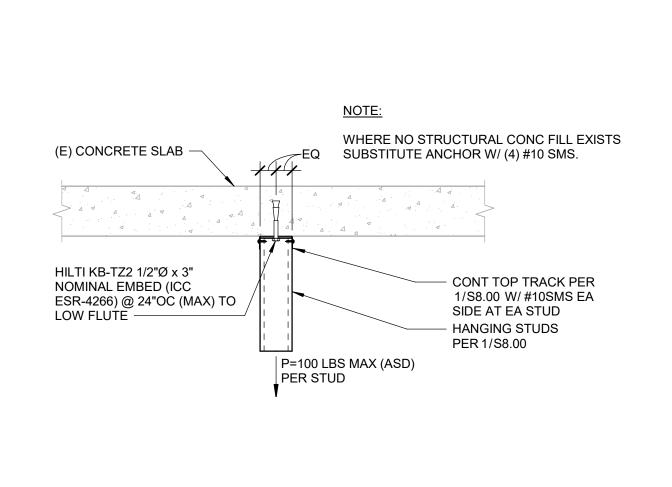




SLOTTED TOP TRACK







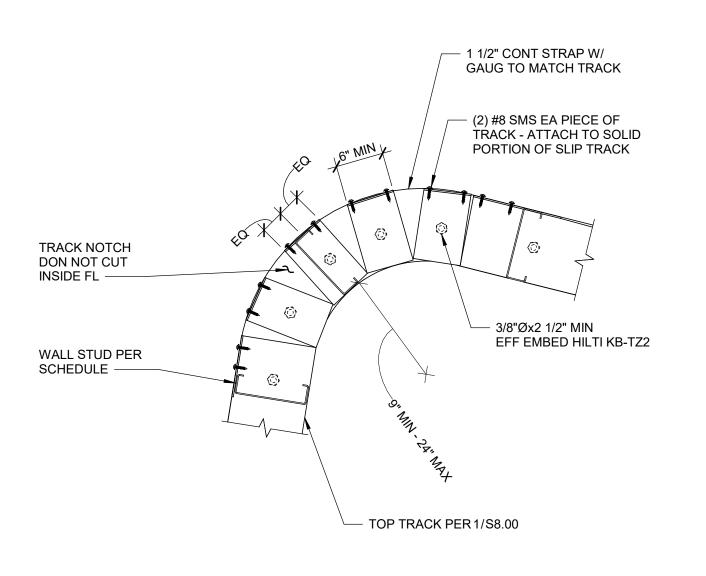
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HUNTINGTON

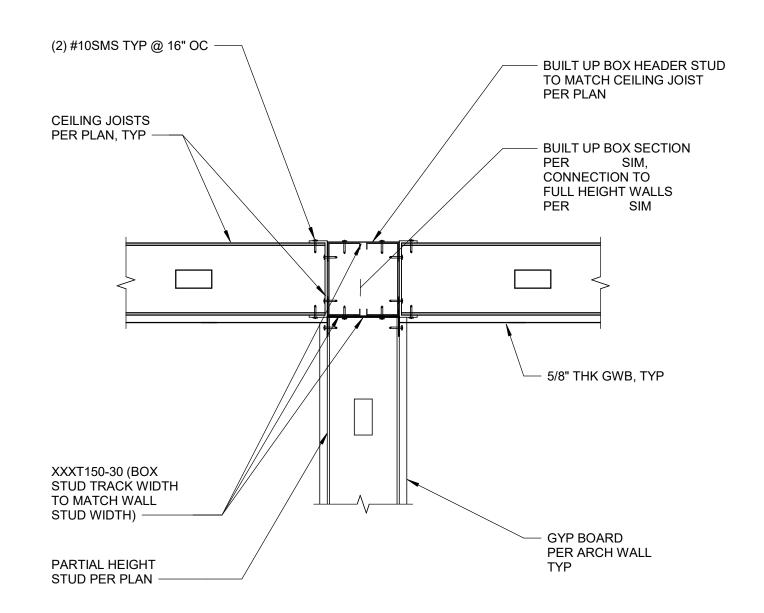
TYPICAL INTERIOR METAL STUD WALL DETAILS

METAL STUD FRAMING - INTERIOR NON-LOAD BEARING WALL WITH MILLWORK/CABINETS ON ONE OR BOTH SIDES

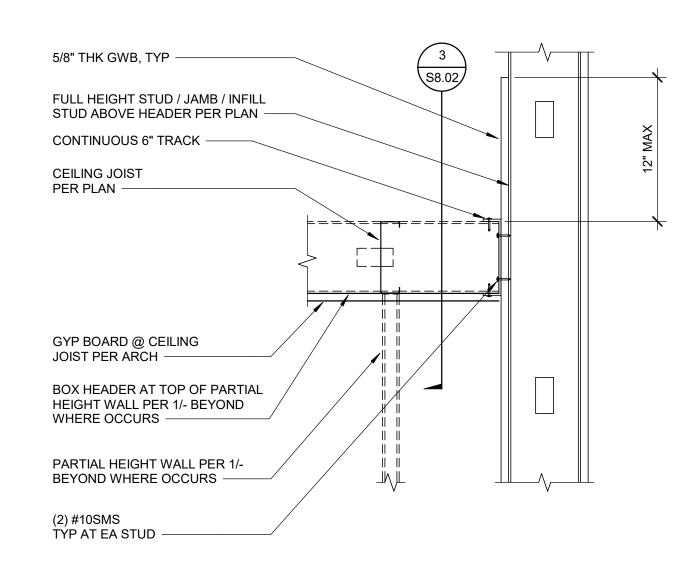
SCALE: 1/2" = 1'-0"

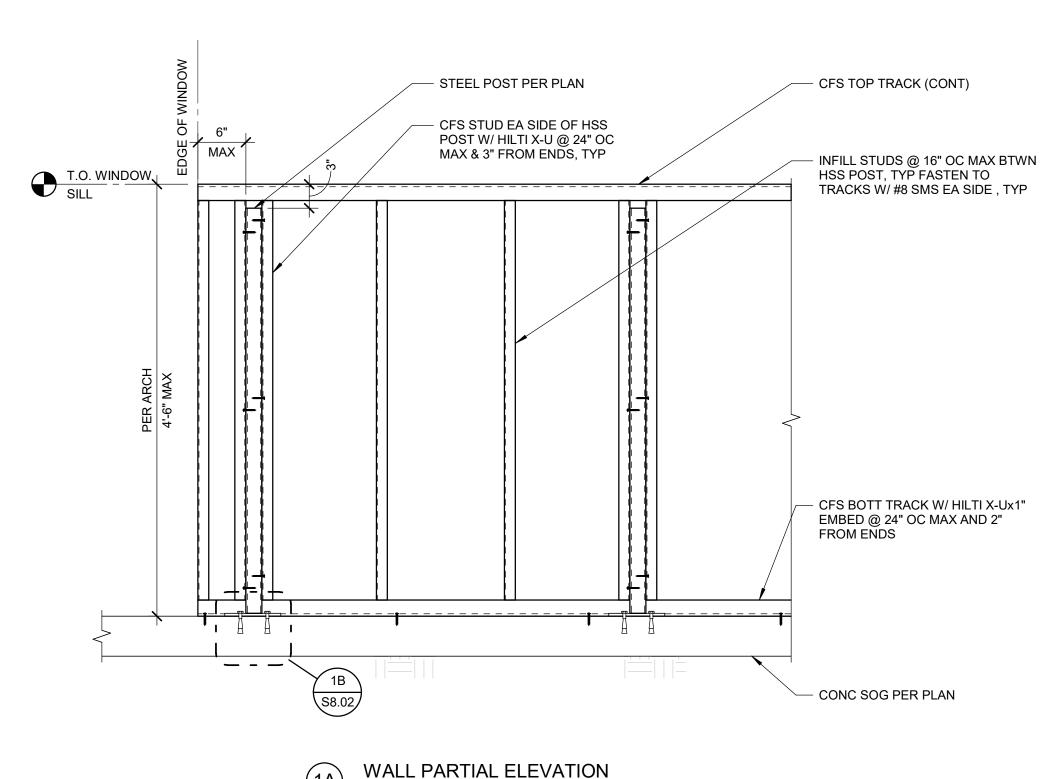


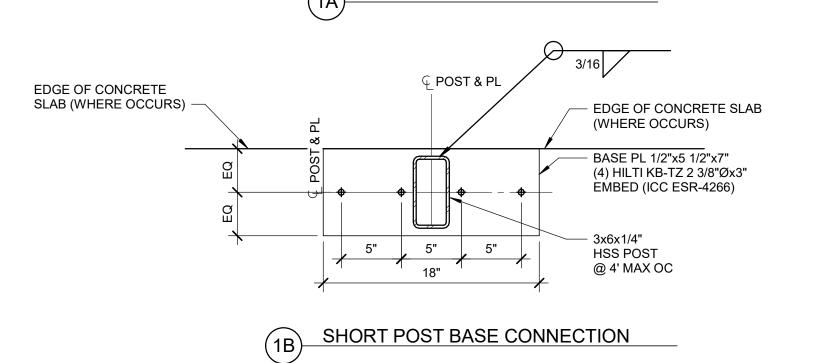
HOW AT RADIUS



SECTION CUT AT PARTIAL-HEIGHT WALL A.5







INTERIOR NON-LOAD BEARING WALL CFS FRAMING SCHEDULE 16'-6" MAX WALL HEIGHT

DETAIL

2/\$8.01

4" DEPTH FRAMING

FRAMING

400S300-54 @ 16" OC

(2) 400S137-43 @ 16" OC

MEMBER

TYP WALL STUD

SIZE & SPACING

6" DEPTH FRAMING

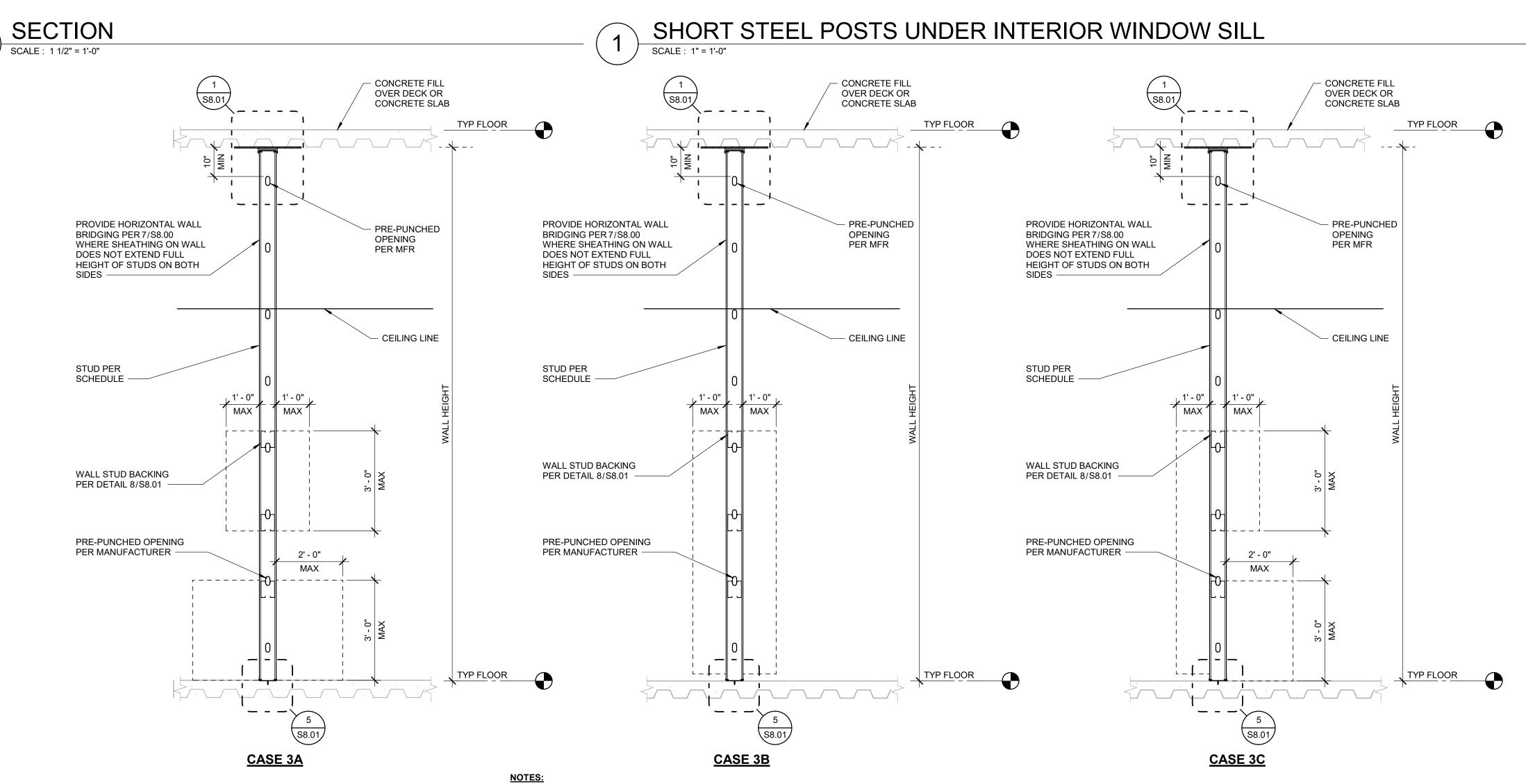
FRAMING

600S125-54

@16" OC

DETAIL

2/\$8.01



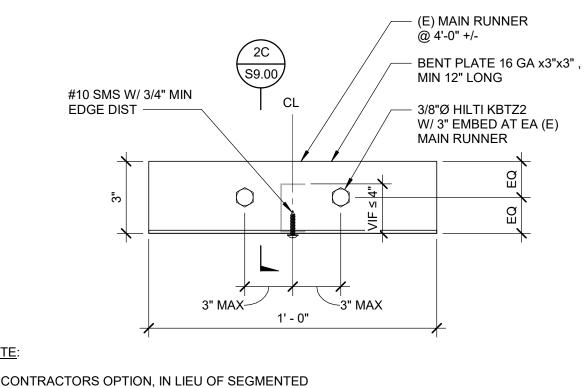
1. CEILING ADJACENT TO STUD WALL TO BE INDEPENDENTLY HUNG AND LATERALLY BRACED.

- 2. WALL STUDS ARE DESIGNED FOR A MAXIMUM OUT OF PLANE DEFLECTION OF HEIGHT/240 (UNO).
- 3. ALL FRAMING MEMBER FLANGE WIDTH, STEEL THICKNESS, AND STEEL STRENGTH ARE SHOWN AS MINIMUM REQUIRED. MEMBER FLANGE WIDTH, STEEL THICKNESS, AND STEEL STRENGTH MAY BE GREATER THAN MINIMUM.
- 4. (2) 5/8" GYP BOARD LAYERS EACH SIDE MAX FOR TYP WALL STUDS UNO.

NAC NO 2300226 CHECKE JR/AO DATE 11/01/2024

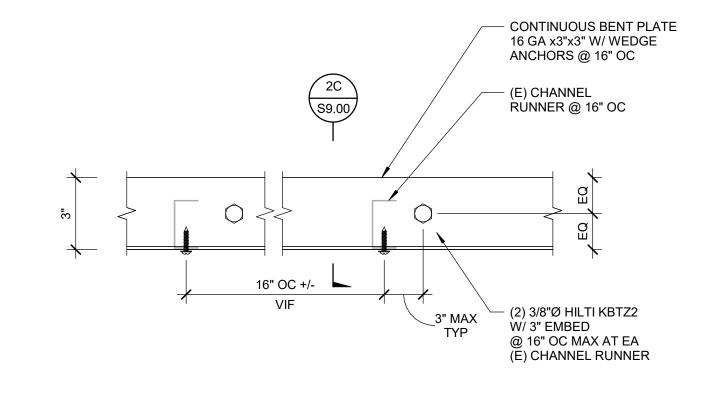
CEILING RETROFIT DETAILS ABOVE LEVEL 2

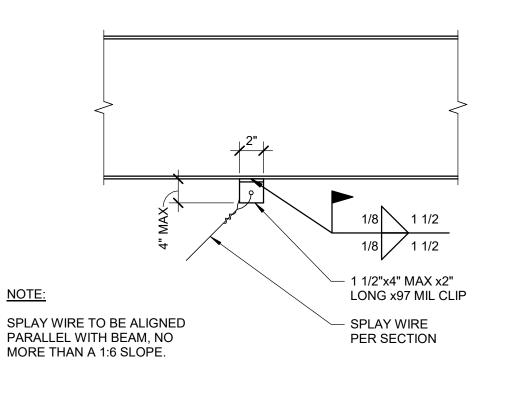
S9.00



AT CONTRACTORS OPTION, IN LIEU OF SEGMENTED ANGLE, A CONTINUOUS ANGLE MAY BE USED.

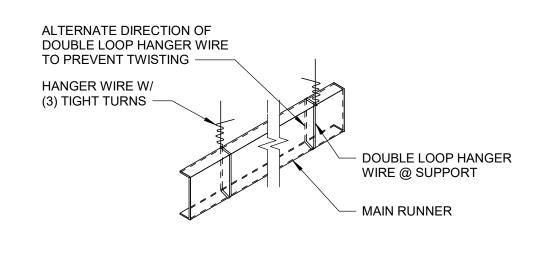


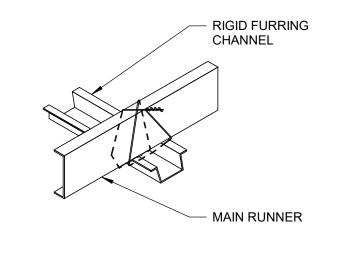


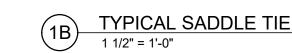


NOTES:

(E) CRC MAIN RUNNER @ 4'-0" ——









- DECK ATTACHEMENT: 3A/S9.00 SIM

12GA WIRE @ 4'-0" OC EA
 MAIN RUNNER CONN

(E) TIE WIRE WHERE OCCURS

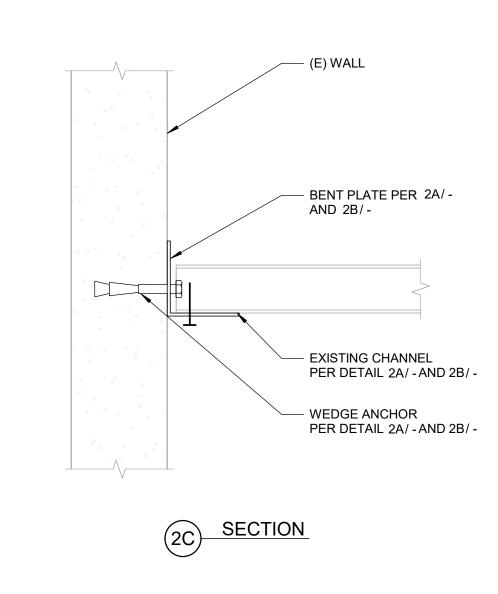
FOR NEW TIE WIRES SEE 1C/S9.00

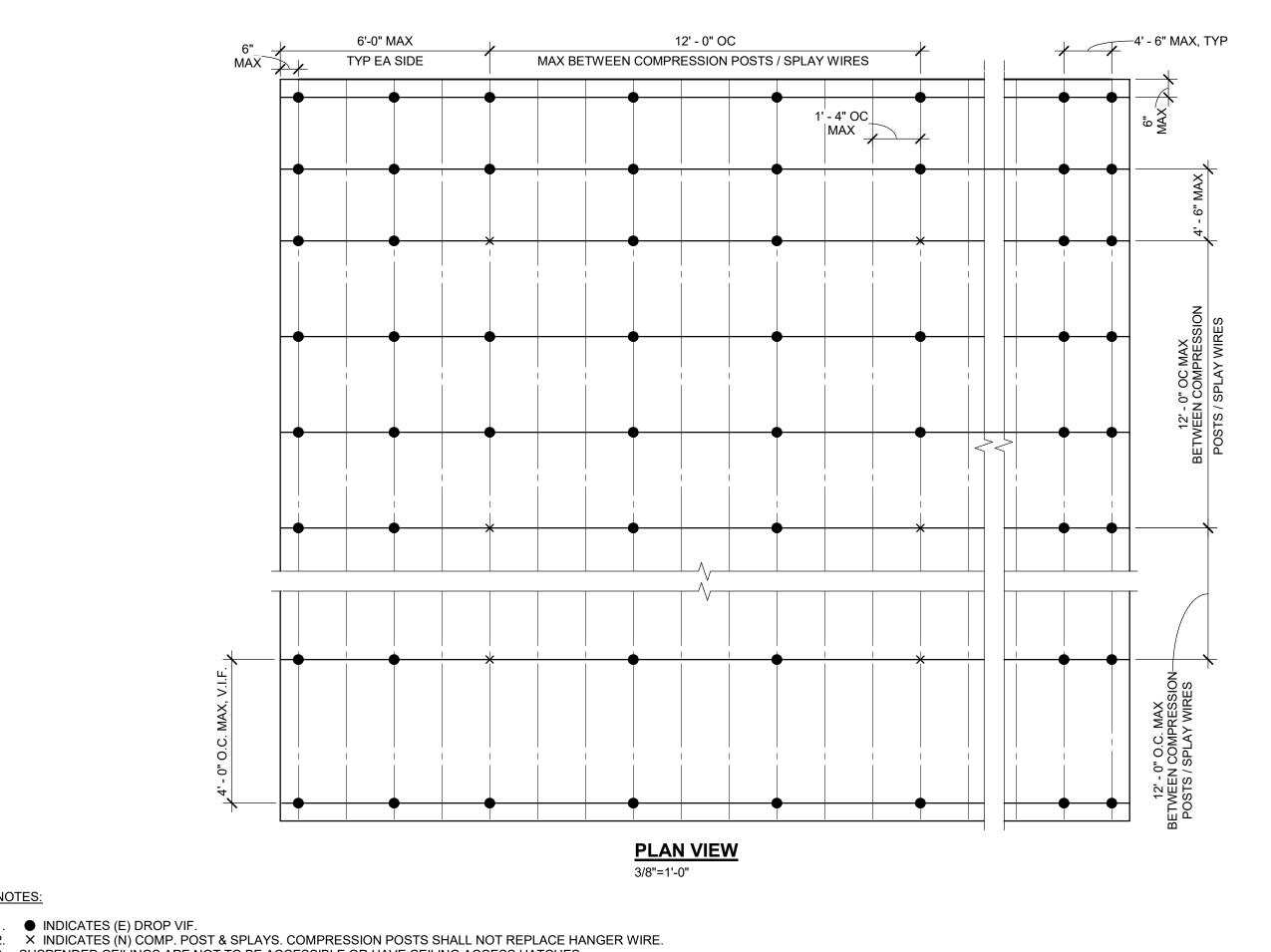
PER 1B/S9.00

└ (2) #10 SMS PER

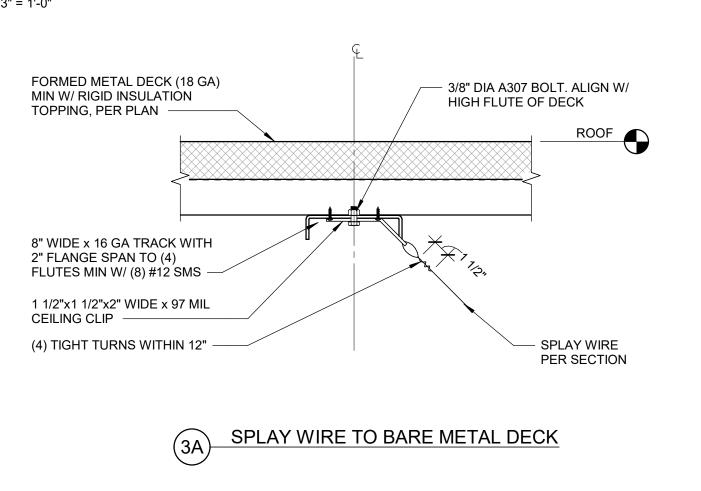
COMP STRUT







EXISTING CEILING STRUCTURE ATTACHMENT TO EXISTING CONCRETE WALL



METAL DECK -- L1 1/2"x1 1/2"x 97 MIL \$9.00 \$9.00 x0'-4" LONG 400S300-54 STUD - 10GA SLAYED WIRE IN COMPRESSION STRUT (4) DIRECTIONS W/ (2) #10 SMS EA END MAX HT = 17'-0" MAX V.I.F. (AT EA COMP STRUT) 6'-0" MAX MAX

COMPRESSION STRUT SPACING 12'-0"x12'-0" OC

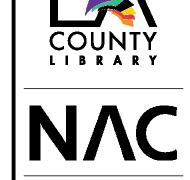
SECTION

SUSPENDED CÈILINGS ARE NOT TO BE ACCESSIBLE OR HAVE CEILING ACCESS HATCHES.

5. ALL HANGER WIRES AND/OR BRACES SHALL BE 6" MIN FROM ALL UNBRACED MEP.

(E) CHANNEL RUNNERS —

4. TOTAL CEILING WEIGHT MAY NOT EXCEED (E) CEILING WEIGHT.



- (E) 4" THK SLAB

ÒŃ GRADE OR ELEVATED SLAB

PER PLAN

NAC NO 2300226 CHECKE Checker DATE 11/01/2024

> SHELVING ANCHORAGE

DETAILS

\$10.00

WALL ANCHOR INSTALLATION @ MASONRY WALL (69" HIGH AND 2 HIGHER)

SCALE: 1" = 1'-0"

TOP SPREADER -

WALL ANCHOR

1/4"DIA x1" TEK SCREW -

3/8"DIA T.R. x 3 1/8" EMBEDMENT

UPRIGHT POST

BASE BRACKET

W/ HILTI HY 270 EPOXY (ESR#4143)

1/4" x1/2" MACHINE BOLTS THRU FRAME & BASE BRACKETS —

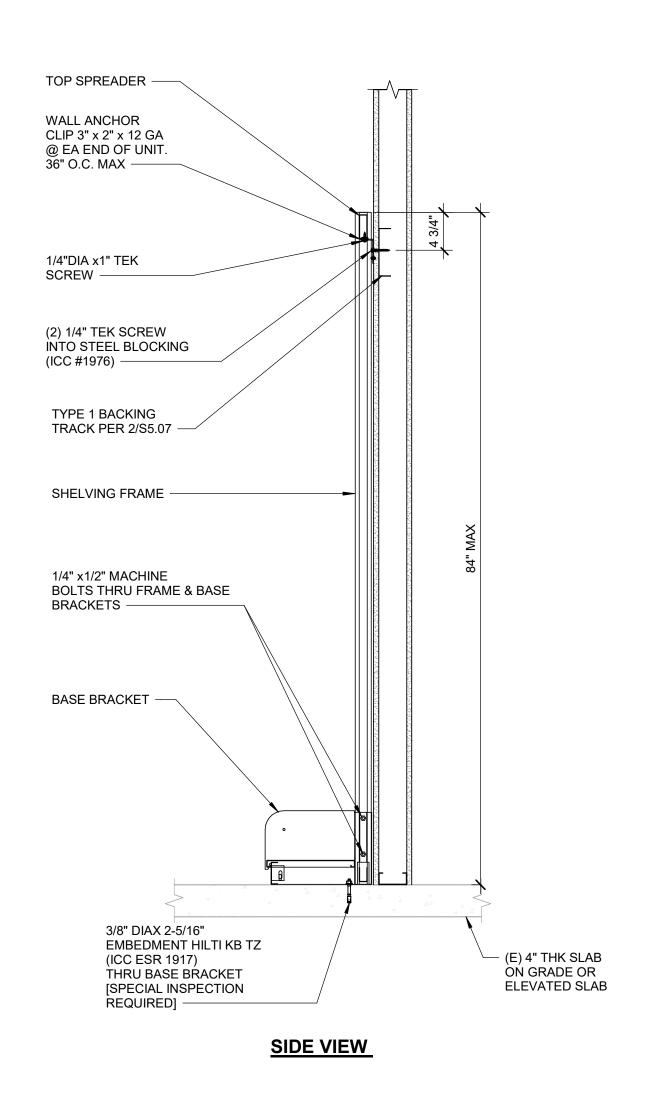
3/8" DIAX 2-5/16" EMBEDMENT HILTI KB TZ

SIDE VIEW

THRU BASE BRACKET [SPECIAL INSPECTION REQUIRED]

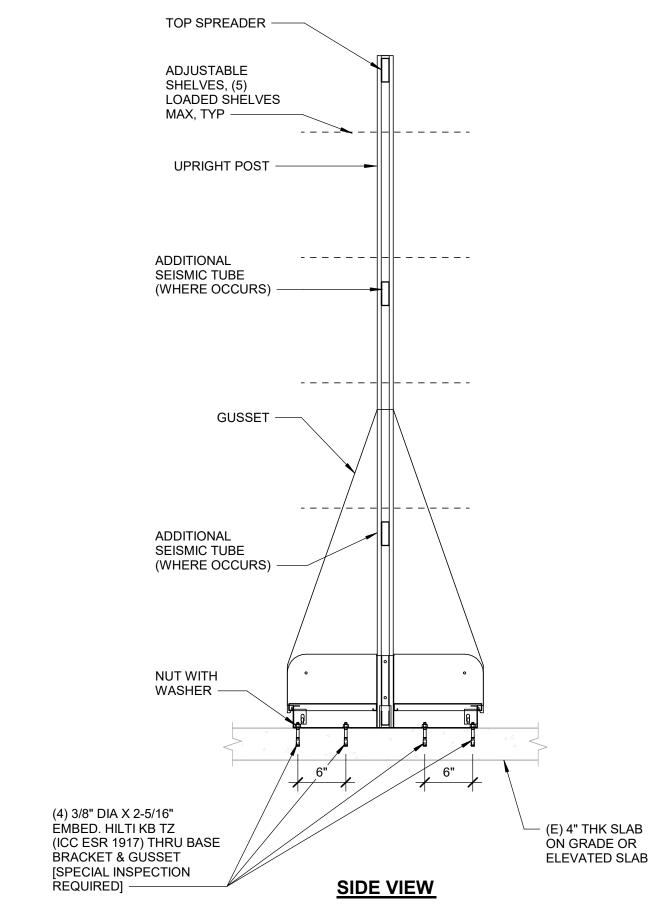
(ICC ESR 1917)

CLIP 3" x 2" x 12 GA @ EA END OF UNIT. 36" O.C. MAX



TOP SPREADER -UPRIGHT POST -ADDITIONAL SEISMIC TUBE (WHERE OCCURS) — GUSSET -SEISMIC TUBE (WHERE OCCURS) — BRACKET -- ANCHORS AT EACH UPRIGHT, TYP. SPREADER ----- (E) 4" THK SLAB ÒŃ GRADE OR ELEVATED SLAB **FRONT VIEW**

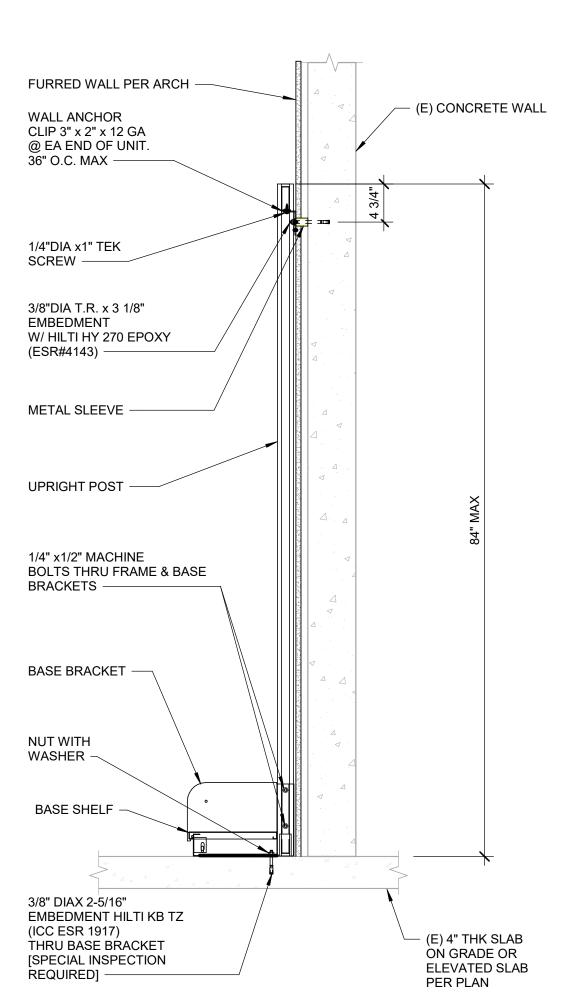
36" MAX



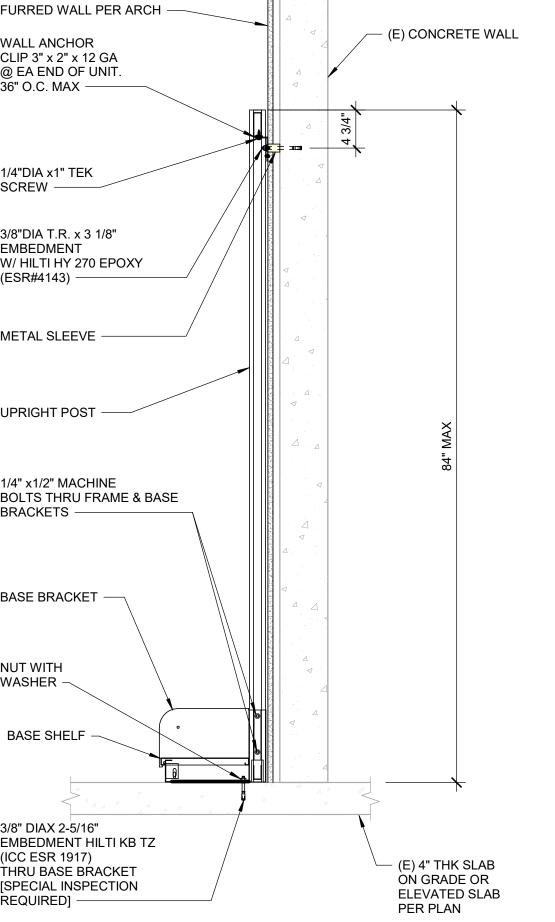
WALL ANCHOR INSTALLATION (STEEL BLOCKING OPTION) (69" HIGH AND HIGHER)

SCALE: 1" = 1'-0"

FLOOR ANCHORING DETAIL (69" HIGH DOUBLE FACE & HIGHER)



SIDE VIEW



WALL ANCHOR INSTALLATION AT FURRED WALL (69" HIGH AND

3 HIGHER)
SCALE: 1" = 1'-0"

6/4/2025 9:41:28 AM Autodesk Docs://2300226 - Huntington Park Library and Bell Library/2300226 Huntington Park - R23.rvt

DRAWN LB/CS CHECKED SP DATE 2/28/2025

> MECHANICA COVER SHEET

2022 ENERGY STANDARDS

1) ADMINISTRATIVE REQUIREMENTS: THE FOLLOWING ITEMS REPRESENT THE ADMINISTRATIVE REQUIREMENTS FOR BUILDINGS. A) THE PERSON WITH OVERALL RESPONSIBILITY FOR CONSTRUCTION OR THE PERSON RESPONSIBLE FOR THE INSTALLATION OF REGULATED FEATURES, MATERIALS, COMPONENTS, OR MANUFACTURED DEVICES SHALL POST, OR MAKE AVAILABLE WITH THE BUILDING PERMITS) ISSUED FOR THE BUILDING, THE REQUIRED INSTALLATION CERTIFICATE(S) FOR FEATURES, MATERIALS, COMPONENTS, OR MANUFACTURED DEVICES REGULATED BY THE APPLIANCE EFFICIENCY REGULATIONS OR PART 6. SUCH INSTALLATION CERTIFICATE(S) SHALL BE MADE AVAILABLE TO THE ENFORCEMENT AGENCY FOR ALL APPROPRIATE INSPECTIONS. THESE CERTIFICATES SHALL I) IDENTIFY FEATURES, MATERIALS, COMPONENTS, OR MANUFACTURED DEVICES

REQUIRED TO VERIFY COMPLIANCE WITH THE APPLIANCE EFFICIENCY REGULATIONS AND PART 6. II) INCLUDE A STATEMENT INDICATING THAT THE FEATURES, MATERIALS, COMPONENTS, OR MANUFACTURED DEVISE CONFORM TO THE APPLIANCE EFFICIENCY REGULATIONS AND PART 6 AND THE REQUIREMENTS FOR SUCH FEATURES, MATERIALS, COMPONENTS, OR MANUFACTURED DEVICES GIVEN IN THE PLANS AND SPECIFICATIONS APPROVED BY THE LOCAL ENFORCEMENT AGENCY. III) STATE THE NUMBER OF THE BUILDING PERMIT UNDER WHICH THE CONSTRUCTION OR INSTALLATION WAS PERFORMED

B) THE BUILDER SHALL PROVIDE THE BUILDING OWNER OR THE PERSON(S) RESPONSIBLE FOR BUILDING MAINTENANCE (IN CASE OF MULTI-TENANT OR CENTRALLY OPERATED BUILDINGS) AT OCCUPANCY THE FOLLOWING: OPERATING INFORMATION: THE APPROPRIATE CERTIFICATES) OF COMPLIANCE AND A LIST OF THE FEATURES, MATERIALS, COMPONENTS, AND MECHANICAL DEVICES INSTALLED IN THE BUILDING AND INSTRUCTIONS ON HOW TO OPERATE THEM

- EFFICIENTLY. MAINTENANCE INFORMATION: REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY STATED AND INCORPORATED ON A READILY ACCESSIBLE LABEL. THE LABEL
- MAY BE LIMITED TO IDENTIFYING THE OPERATION AND MAINTENANCE MANUAL. VENTILATION INFORMATION: A DESCRIPTION OF THE QUANTITIES OF OUTDOOR AND RECIRCULATED AIR THAT THE VENTILATION SYSTEMS ARE DESIGNED TO PROVIDE TO

2) MANDATORY MEASURES: THE FOLLOWING ITEMS REPRESENT THE MANDATORY MEASURES FOR ALL BUILDINGS. JOINTS, PENETRATIONS AND OTHER OPENINGS IN THE BUILDING ENVELOPE THAT ARE POTENTIAL SOURCES OF AIR LEAKAGE SHALL BE CAULKED, GASKETED,

- WEATHER STRIPPED, OR OTHERWISE SEALED TO LIMIT INFILTRATION AND EXFILTRATION. ALL INSULATING MATERIAL SHALL BE INSTALLED IN COMPLIANCE WITH THE FLAME-SPREAD RATING AND SMOKE DENSITY REQUIREMENTS OF THE CBC. NON-CENTRALIZED ENERGY MANAGEMENT SYSTEMS SHALL HAVE SETBACK
- THERMOSTATS CAPABLE TO PROGRAM TEMPERATURE SETPOINTS FOR AT LEAST FOUR PERIODS WITHIN A 24-HR. PERIOD. ALL MECHANICAL VENTILATION AND SPACE-CONDITIONING SYSTEMS SHALL BE DESIGNED WITH DUCTWORK, DAMPERS, AND CONTROLS WHICH ALLOWS OUTSIDE AIR RATES TO BE OPERATED AT THE LARGER OF (1) THE MINIMUM LEVELS SPECIFIED IN SECTION 120.1(C)3 OR (2) THE RATE REQUIRED FOR MAKE-UP OF EXHAUST
- SYSTEMS THAT ARE REQUIRED FOR AN EXEMPT OR COVERED PROCESS, FOR CONTROL OF ODORS, OR FOR THE REMOVAL OF CONTAMINANTS WITHIN THE SPACE. THE THERMOSTATIC CONTROLS FOR HVAC SYSTEMS SHALL BE CAPABLE OF BEING SET LOCALLY OR REMOTELY BY TO CONTROL COMFORT HEATING DOWN TO 55 "F OR LOWER AND COOLING UP TO 85°F OR HIGHER. THE THERMOSTATIC CONTROLS SHALL BE CAPABLE OF PROVIDING A DEAD BAND RANGE OF AT LEAST 5°F WITHIN

WHICH HEATING AND COOLING ENERGY TO THE ZONE IS SHUT OFF OR REDUCED TO

- OUTDOOR AIR SUPPLY AND EXHAUST EQUIPMENT SHALL BE INSTALLED WITH DAMPERS THAT AUTOMATICALLY CLOSE UPON FAN SHUTDOWN. AIR DISTRIBUTION SYSTEM DUCTS AND PLENUMS, INCLUDING, BUT NOT LIMITED TO,
- BUILDING CAVITIES, MECHANICAL CLOSETS, AIR-HANDLER BOXES AND SUPPORT PLATFORMS USED AS DUCTS OR PLENUMS, SHALL BE INSTALLED, SEALED AND INSULATED TO MEET THE REQUIREMENTS OF CHAPTER 6 CMC CODE AND ANSI/SMACNA -006-2006 HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE. SUPPLY-AIR DUCTS CONVEYING HEATED OR COOLED AIR SHALL BE INSULATED TO A MINIMUM INSTALLED LEVEL OF R-4.2 (R-8 IN UNCONDITIONED SPACE), UNLESS DUCTS ARE IN CONDITIONED SPACE.

3) AIR CONDITIONING SYSTEMS (HVAC) COMPLIANCE: 1) DUCT SYSTEMS USED WITH BLOWER TYPE EQUIPMENT WHICH ARE PORTIONS OF A HEATING, COOLING, ABSORPTION, EVAPORATIVE COOLING OR OUTDOOR AIR VENTILATION SYSTEM SHALL BE SIZED IN ACCORDANCE WITH CHAPTER 12 OF THE CALIFORNIA MECHANICAL CODE

GENERAL NOTES

- THESE DOCUMENTS MAY NOT BE USED FOR ANY REPRODUCTION, BIDDING, OR CONSTRUCTION UNLESS AUTHORIZED, IN WRITING, BY SALAS O'BRIEN AND THE ENGINEER OF RECORD RESPONSIBLE FOR THEIR PREPARATION.
- ALL BRANCH DUCTS SHALL HAVE BALANCE DAMPERS WITH QUADRANT LOCKS.
- ALL DUCT SIZES SHOWN ARE NET INSIDE DIMENSIONS.
- DUCTWORK SHALL BE GALVANIZED SHEET METAL IN COMPLETE CONFORMANCE WITH C.M.C., AND SMACNA HVAC DUCT CONSTRUCTION STANDARDS. FLEXIBLE DUCTS MAY BE USED TO CONNECT INTO AIR OUTLETS AND INLETS. MAXIMUM LENGTH OF FLEXIBLE DUCTWORK SHALL BE 5'-0". DUCTWORK ON ROOF SHALL BE INTERNALLY LINED AND PAINTED. ALL JOINTS AND SEAMS SHALL BE WEATHERPROOF. ALL BRACING OF DUCTS AND PIPING SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA GUIDELINES. DUCTS SERVING TYPE 1 KITCHEN HOODS SHALL BE CONSTRUCTED OF MINIMUM 16 GAUGE CARBON STEEL OR MINIMUM 18 GAUGE STAINLESS STEEL WITH FULLY WELDED JOINTS. DISHWASHER EXHAUST SHALL BE MINIMUM 18 GAUGE STAINLESS
- ALL FLEXIBLE DUCTS SHALL BE INSULATED. MINIMUM BEND RADIUS SHALL BE TWICE THE DUCT DIAMETER.
- 6. SUPPLY AND RETURN DROPS SHALL BE LINED SHEET METAL PLENUMS.
- DUCT AND PLENUM INSULATION SHALL BE IN ACCORDANCE WITH THE 2022 CALIFORNIA CODE OF REGULATIONS, TITLE-24, PART 1, ENERGY EFFICIENCY STANDARDS, TABLE 150.1-4 AND THE LATEST EDITION OF THE CALIFORNIA MECHANICAL CODE (C.M.C.)
- ALL SHEET METAL DUCTS SHALL BE INSULATED BY MEANS OF FOIL WRAP, 3/4 LB, DENSITY FIBERGLASS INSULATION. INSULATION SHALL BE UL LISTED. DUCT LINERS SHALL BE NON-FIBERGLASS TYPE WITH THICKNESS AS REQUIRED TO MEET T-24
- THERMOSTATS SHALL BE LOCATED AT 4' 0" ABOVE FINISHED FLOOR (46" MAX. IF MOUNTED OVER CASEWORK OR OTHER OBSTRUCTION) IN ACCORDANCE WITH A.D.A. REQUIREMENTS, UNLESS NOTED OTHERWISE.
- 10. CONDENSATE DRAIN PIPING SHALL BE COPPER TYPE "L", AND SHALL BE ROUTED TO AN APPROVED RECEPTOR.
- 11. PROVIDE FLEXIBLE CONNECTIONS AT THE INLET AND OUTLET OF ALL FANS.
- 12. COORDINATE FINAL LOCATIONS OF AIR DISTRIBUTION DEVICES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS, I.E. LIGHTS, SPEAKERS, TILES AND SPRINKLER HEADS.
- 13. ALL SUPPLY CEILING DIFFUSERS SHALL HAVE 4-WAY AIR FLOW DISTRIBUTION PATTERNS, UNLESS INDICATED OTHERWISE.
- 14. COORDINATE FINAL LOCATIONS OF THERMOSTATS WITH ARCHITECT AND OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION. FIELD COORDINATE LOCATIONS WITH OTHER TRADES INCLUDING ELECTRICAL, TELEPHONE, ETC.
- 15. FIRE/SMOKE DAMPERS SHALL BE INSTALLED ON ALL DUCTWORK PASSING THROUGH FIRE SEPARATING WALLS, AND SHALL BE INSTALLED AS PER 2022 CMC SECTION 605.0, 2022 CBC SECTION 717. AND UL,, LOCAL, STATE, AND N.F.P.A. FIRE CODES.
- 16. ALL ROOF PENETRATIONS, CUTTING, PATCHING, BLOCKOUTS, STRUCTURAL SUPPORT, ROOF OPENINGS, LEVELING OF PRE-FAB CURBS SHALL BE BY GENERAL CONTRACTOR. CONTRACTOR SHALL VERIFY EXACT ROOF OPENING SIZES WITH UNIT MANUFACTURER PRIOR TO START OF WORK AND SHALL MAKE ALL NECESSARY ADJUSTMENTS AT NO EXTRA COST TO OWNER.
- 17. LOCATION OF ALL MECHANICAL EQUIPMENT SHOWN ARE SCHEMATIC. CONTRACTOR SHALL FIELD COORDINATE EXACT LOCATIONS AND REQUIRED SERVICE/MAINTENANCE CLEARANCES PRIOR TO START OF WORK.
- 18. CONTRACTOR SHALL VERIFY WEIGHTS OF ALL MECHANICAL EQUIPMENT WITH THEIR MANUFACTURER PRIOR TO START OF WORK. IF DIFFERENT THAN THE WEIGHTS INDICATED ON DRAWINGS, CONTRACTOR SHALL INFORM THE ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO START OF WORK.
- 19. CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS W/MFR. AND COORDINATE WITH THE ELECTRICAL CONTRACTOR AND THE MANUFACTURER PRIOR TO START OF WORK. NOTIFY THE ARCHITECT, IN WRITING, IN CASE OF ANY DISCREPANCIES, PRIOR TO
- 20. ALL HVAC EQUIPMENT, APPLIANCES, AND DUCTWORK SHALL CONFORM TO THE LATEST GUIDELINES OF U.L., A.G.A., N.F.P.A., C.M.C., C.P.C., AND ALL OTHER LOCAL CODES HAVING JURISDICTION.
- 21. TEST AND BALANCE THE HVAC SYSTEM AS PER REQUIREMENTS OF THE MANDATORY HVAC MEASURES INDICATED ON THIS 22. CONTRACTOR SHALL FIELD VERIFY EXACT CEILING SPACE AVAILABLE FOR ROUTING OF DUCT, PRIOR TO START OF WORK,
- INFORM ARCHITECT, IN WRITING, IN CASE OF ANY DISCREPANCY OR POTENTIAL CONFLICTS PRIOR TO FABRICATING AND/OR PURCHASE OF ANY DUCTWORK. 23. ALL HVAC UNITS SYSTEMS WITH 2000 CFM OR MORE OR SERVING A COMMON AIR SPACE MUST BE INTERCONNECTED TO SHUT DOWN IMMEDIATELY UPON ALARM CONDITION FROM DUCT DETECTORS (OR FIRE ALARM SYSTEM WHEN USING AREA SMOKE
- USED FOR SHUT DOWN MUST BE CALIFORNIA STATE FIRE MARSHAL LISTED FOR RELEASING SERVICE. 24. ACCESS PANELS SHALL BE PROVIDED TO ALL EQUIPMENT, MANUAL VOLUME DAMPERS, ETC. LOCATED IN INACCESSIBLE AREAS.

DETECTORS IN LIEU OF DUCT DETECTORS) WITHOUT INTERFACE FROM EMS OR ANY OTHER SYSTEMS. ALL CONTROL RELAYS

25. MAINTAIN MINIMUM 10'-0" BETWEEN ALL OA INTAKES AND EXHAUST AIR DISCHARGES OR VENTS.

	SHEET INDEX
M0.01	MECHANICAL COVER SHEET
M0.02	MECHANICAL COVER SHEET MECHANICAL SCHEDULES
M0.03	TITLE 24
M0.04	TITLE 24
M2.01	MECHANICAL DEMO PLAN - BASEMENT AND FIRST FLOOR
M2.02	MECHANICAL DEMO PLAN - SECOND AND THIRD FLOOR
M3.01	MECHANICAL PLAN - BASEMENT AND FIRST FLOOR
M3.02	MECHANICAL PLAN - SECOND AND THIRD FLOOR
M5.01	MECHANICAL DETAILS

LEGEND SYMBOL ABBREV. DESCRIPTION FLEXIBLE CONNECTION, DUCTWORK DUCT SIZE (1ST NUMBER INDICATES SIDE SHOWN) INTERNALLY LINED DUCTWORK SQUARE ELBOW WITH TURNING VANES ROUND ELBOW MANUAL VOLUME DAMPER BD BACKDRAFT DAMPER FLEXIBLE DUCTWORK o---FSD FIRE SMOKE DAMPER **-**√-OA OUTSIDE AIR ROUND DUCT UP CEILING SUPPLY AIR DIFFUSER (4-WAY THROW UNLESS NOTED OTHERWISE) -SA SUPPLY AIR RR/RG RETURN AIR REGISTER/GRILLE RETURN AIR RA ___ ER/EG EXHAUST AIR REGISTER/GRILLE **-**√-**-**EA EXHAUST AIR AP CEILING ACCESS PANEL RECTANGULAR SUPPLY DUCT UP RECTANGULAR RETURN DUCT UP RECTANGULAR EXHAUST DUCT UP TSTAT THERMOSTAT (s) WALL SWITCH/WALL STAT CO CARBON MONOXIDE SENSOR (co_2) CO_2 CARBON DIOXIDE SENSOR SD DUCT MOUNTED SMOKE DETECTOR INTERLOCK WITH FIRE ALARM. SEE ELECT. DWGS. TIME CLOCK (ELECTRONIC PROGRAMMABLE) TIMER SWITCH POC POINT OF CONNECTION POD POINT OF DISCONNECT CFM CUBIC FEET PER MINUTE ACI AMERICAN CONCRETE INSTITUTE A.D.A. AMERICANS WITH DISABILITIES ACT A.F.F. ABOVE FINISH FLOOR A.G.A. AMERICAN GAS ASSOCIATION AL ALUMINUM AMB. AMBIENT APRX. APPROXIMATE(LY) ARCHITECT OR ARCHITECTURAL ARCH. AMERICAN SOCIETY OF CIVIL ENGINEERS ASCE BHP BRAKE HORSEPOWER BLDG BUILDING BTU(H) BRITISH THERMAL UNIT (PER HOUR) B.U.R. BUILT-UP ROOFING CAP. CAPACITY C.B.C. CALIFORNIA BUILDING CODE C.E.C. CALIFORNIA ENERGY COMMISSION C.M.C. CALIFORNIA MECHANICAL CODE C.P.C. CALIFORNIA PLUMBING CODE CD CONDENSATE DRAIN CGBSC CALIFORNIA GREEN BUILDING STANDARDS COMMISSION CONC. CONCRETE COND. CONDITIONS CONN. CONNECTIONS COORD. COORDINATE C.O.P. COEFFICIENT OF PERFORMANCE CORR. CORRIDOR CU COPPER CW COLD WATER DB DRY BULB DET. DETAIL DIM. DIMENSIONS DN. DOWN DWG(S). DRAWING(S)

SYMBOL		GEND (CONT.)
	ABBREV.	DESCRIPTION
	DX (E)	DIRECT EXPANSION EXISTING
	EAT	ENTERING AIR TEMPERATURE
	EDB.	ENTERING DRY BULB
	ENT.	ENTERING
	EQ.	EQUAL
	EER	ENTERING WATER TEMPERATURE ENERGY EFFICIENCY RATIO
	E.E.S.	ENERGY EFFICIENCY RATIO ENERGY EFFICIENCY STANDARDS
	EFF.	EFFICIENCY
	ELEC.	ELECTRICAL
	ESP	EXTERNAL STATIC PRESSURE (INCHES OF WATER)
	FAB	FABRICATED
	F.A.R.	FREE AREA REQUIRED
	FLA	FULL LOAD AMPS
	FPM	FEET PER MINUTE
	FT.	FEET
	GALV.	GAUGE GALVANIZED
	GPM	GALLONS PER MINUTE
	GSM	GALVANIZED SHEET METAL
	HERS	HOME ENERGY RATING SYSTEM
	HHW	HEATING HOT WATER
	HP	HORSEPOWER
	HSPF	HEATING SEASONAL PERFORMANCE FACTOR HEATING, VENTILATION AND AIR CONDITIONING
	I.B.C.	INTERNATIONAL BUILDING CODE
	I.M.C.	INTERNATIONAL MECHANICAL CODE
	I.P.C.	INTERNATIONAL PLUMBING CODE
	IN.	INCHES
	IPLV	INTEGRATED PART-LOAD VALUE
	LAT	KILOWATT LEAVING AIR TEMPERATURE
	LBS.	POUNDS
	LVG.	LEAVING
	LWT	LEAVING WATER TEMPERATURE
	MECH.	MECHANICAL
	MAX.	MAXIMUM
	MB	MACHINE BOLT
	MBH MCA	1000 BTUH MINIMUM CIRCUIT AMPACITY
	MFR	MANUFACTURER
	MIN.	MINIMUM
	MOCP	MAXIMUM OVERCURRENT PROTECTION
	MTG.	MOUNTING
	MVD	MANUAL VOLUME DAMPER
	NA N.F.P.A.	NOT APPLICABLE NATIONAL FIRE PROTECTION ASSOCIATION
	NIC	NOT IN CONTRACT
	NC	NOISE CRITERIA
	NO.	NUMBER
	OBD	OPPOSED BLADE DAMPER
	OPER.	OPERATING
	PH QTY.	PHASE QUANTITY
	RECT.	RECTANGLE/RECTANGULAR
	RPM	REVOLUTIONS PER MINUTE
	SEER	SEASONAL ENERGY EFFICIENCY RATIO
	SF	SQUARE FEET
	SQ.	SQUARE SHEET METAL AND AIR CONDITIONING
	SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION
	S.M.S.	SHEET METAL SCREW
	S.O.V.	SHUT-OFF VALVE
	SPD	STATIC PRESSURE DROP
	SQFT STRUC.	SQUARE FEET STRUCTURAL
	STL.	STEEL
	TEMP.	TEMPERATURE
	THRU	THROUGH
	TSP	TOTAL STATIC PRESSURE
	TYP.	TYPICAL LINDERGUT DOOR
	U/C U.L.	UNDERCUT DOOR UNDERWRITER'S LABORATORIES
	V.L.	UNDERWRITER'S LABORATORIES VOLTAGE/VOLTS
	VEL.	VELOCITY
		VADIABLE EDECUENOVESS (5
	VFD	VARIABLE FREQUENCY DRIVE
	VFD WB	VARIABLE FREQUENCY DRIVE WET BULB

MANDATORY HVAC SYSTEM MEASURES ALL WORK INDICATED ON DRAWINGS AND/OR SPECIFICATIONS SHALL BE COORDINATED WITH WORKS OF OTHER TRADES PRIOR TO START OF WORK. ALL HVAC EQUIPMENT LISTED IN SECTION 100(G) OF THE E.E.S. MUST BE C.E.C. CERTIFIED. ALL PIPING INSULATION SHALL BE CONSISTENT WITH THE REQUIREMENTS OF C.M.C. SECTIONS 1201.2 AND TABLE E, AND E.E.S. ALL DUCTWORK INSULATION SHALL BE CONSISTENT WITH THE REQUIREMENTS OF SECTIONS C.M.C. SECTION 604 TITLE 24 ALL HVAC EQUIPMENT AND APPLIANCE SHALL MEET THE REQUIREMENTS PER SECTIONS 110.1-110.2, 110.5 AND 120.1-120.7

ALL HVAC SYSTEMS SHALL MEET THE CONTROL REQUIREMENTS PER SECTION 110.2 AND 120.2 E.E.S. ALL VENTILATION SYSTEMS SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH THE C.M.C.

THE CONTRACTOR SHALL PROVIDE THE BUILDING OWNER, MANAGER, AND THE ORIGINAL OCCUPANTS A LIST OF THE HEATING, VENTILATION, AND AIR CONDITIONING FEATURES, MATERIALS, AND COMPONENTS INSTALLED IN THE BUILDING AND

INSULATION MATERIAL SHALL MEET THE CALIFORNIA QUALITY STANDARD PER SECTION 120.3 AND 120.4 E.E.S.

ALL SPACE CONDITIONING AND VENTILATION SYSTEMS SHALL BE BALANCED. TO THE QUANTITIES SPECIFIED IN THESE PLANS. IN ACCORDANCE WITH THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB) PROCEDURAL STANDARDS, OR ASSOCIATED AIR BALANCE COUNCIL (AABC) NATIONAL STANDARDS. TESTING AND BALANCING SHALL BE DONE BY AN INDEPENDENT QUALIFIED AGENCY.

ALL SYSTEMS SHALL PROVIDE THE MINIMUM OUTSIDE AIR AS SHOWN ON THE MECHANICAL DRAWINGS, AND SHALL BE MEASURED AND CERTIFIED BY AN INDEPENDENT QUALIFIED TESTING AGENCY.

12. DUCT INSULATION SHALL HAVE A MINIMUM INSTALLED R-VALUE OF 6.0.

13. DURING CONSTRUCTION, ENDS OF DUCT OPENINGS SHALL BE SEALED AND MECHANICAL EQUIPMENT SHALL BE COVERED TO PROTECT INTEGRITY OF SYSTEM CLEANLINESS.

14. PRIOR TO FINAL APPROVAL OF THE BUILDING, THE LICENSED CONTRACTOR, ARCHITECT, OR ENGINEER IN RESPONSIBLE CHARGE OF THE OVERALL CONSTRUCTION MUST COMPLETE AND SIGN THE GREEN BUILDING STANDARDS CERTIFICATION FORM AND GIVE TO THE BUILDING DEPARTMENT OFFICIAL TO BE FILED WITH THE APPROVED PLANS.

15. PROVIDE TEMPORARY MEANS OF BUILDING VENTILATION DURING CONSTRUCTION IN ACCORDANCE WITH CGBSC SECTION

16. BUILDING FLUSH-OUT SHALL BE PERFORMED AND MONITORED UPON CONSTRUCTION COMPLETION IN ACCORDANCE WITH CGBSC SECTION 5.504.2.

ALL ENVELOPE AND MECHANICAL CERTIFICATE OF ACCEPTANCE FORMS AND ALL RELATED ACCEPTANCE DOCUMENTS SHALL BE SUBMITTED TO THE FIELD INSPECTOR DURING CONSTRUCTION. CERTIFICATE OF OCCUPANCY WILL NOT BE ISSUED UNTIL THESE FORMS ARE REVIEWED AND APPROVED.

FOR PROJECTS OVER 10,000 SQUARE FEET IN FLOOR AREA, UNLESS NOTED OTHERWISE, FUNDAMENTAL BUILDING COMMISSIONING FOR HVAC, LIGHTING AND DOMESTIC HOT WATER SYSTEMS SHALL BE PERFORMED IN ACCORDANCE WITH SPECIFICATION SECTION 23 08 00 AND THE CGBSC SECTION 5.410.2.

THERMOSTATIC CONTROLS FOR ALL SINGLE ZONE AIR CONDITIONERS AND HEAT PUMPS SHALL COMPLY WITH THE REQUIREMENTS OF EES SECTION 110.2(C) AND REFERENCE JOINT APPENDIX JA5. THERMOSTAT SHALL BE CAPABLE OF COMMUNICATING THROUGH EITHER (1) AT LEAST ONE EXPANSION PORT WITH A REMOVABLE MODULE TO ENABLE COMMUNICATION; OR (2) ON BOARD COMMUNICATION DEVICE.

ALL ENVELOPE AND MECHANICAL CERTIFICATE OF ACCEPTANCE FORMS AND ALL RELATED ACCEPTANCE DOCUMENTS SHALL BE SUBMITTED TO THE FIELD INSPECTOR DURING CONSTRUCTION. CERTIFICATE OF OCCUPANCY WILL NOT BE ISSUED UNTIL THESE FORMS ARE REVIEWED AND APPROVED.

INSULATION MATERIAL SHALL MEET THE CALIFORNIA QUALITY STANDARD PER SECTION 110.8 ENERGY EFFICIENCY STANDARDS (E.E.S).

22. DOORS AND WINDOWS SHALL MEET THE MINIMUM INFILTRATION REQUIREMENTS PER SECTION 110.6 AND 110.7 E.E.S.

23. ALL HVAC SYSTEMS SHALL MEET THE CONTROL REQUIREMENTS PER SECTION 110.2 AND 120.1 E.E.S.

24. THE AUTOMATIC CARBON MONOXIDE SENSING DEVICES SHALL BE USED TO MODULATED THE VENTILATION SYSTEM TO MAINTAIN A MAXIMUM CONCENTRATION NOT GREATER THAN 200 PARTS PER MILLION FOR A PERIOD NOT EXCEEDING ONE

CONTINUOUS EXHAUST SYSTEMS REQUIRE HERS BLOWER DOOR TESTING TO SHOW NO MORE THAN 0.3 CFM/SQFT. LEAKAGE BASE UPON THE ENVELOPE SURFACE AREA. MECHANICAL PERMIT WILL BE PLACED ON TIER 3 HOLDING. HERS BLOWER DOOR TESTING SHALL BE PERFORMED PRIOR TO REMOVING TIER 3 HOLDING AND FINAL INSPECTION.

26. EXHAUST DUCTS SHALL BE EQUIPPED WITH BACK-DRAFT DAMPERS PER SEC. 504.1.1 CMC.

DRYER VENTS SHALL BE EQUIPPED WITH BACK-DRAFT DAMPERS PER SECTION 504.1.1 CMC. SCREENS/LOUVERS SHALL NOT BE INSTALLED AT DRYER VENT TERMINATIONS PER SE. 504.4 CMC.

28. FLEXIBLE CLOTHES DRYER TRANSITION DUCTS SHALL NOT BE CONCEALED WITHIN CONSTRUCTION (REF. SECTION 504.4.2.2).

29. EXHAUST DUCT FOR TYPE I DRYERS SHALL COMPLY WITH SECTION 504.4.2 CMC.

30. AIR CONDITIONING CONDENSERS ARE REQUIRED TO BE LOCATED AT LEAST 5 FEET FROM A CLOTHES DRYER VENT OUTLET,

31. AT THE TIME OF ROUGH INSTALLATION AND DURING STORAGE ON THE CONSTRUCTION SITE UNTIL FINAL STARTUP OF THE HEATING, COOLING AND VENTILATING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEETMETAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST, WATER AND DEBRIS WHICH MAY ENTER THE SYSTEM (CAL GREEN SECTION: 5.504.3).

IN MECHANICALLY VENTILATED BUILDINGS, REGULARLY OCCUPIED AREAS OF THE BUILDING SHALL BE PROVIDED WITH AIR FILTRATION MEDIA FOR OUTSIDE AND RETURN AIR THAT PROVIDES AT LEAST A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 8. MERV 8 FILTERS SHALL BE INSTALLED PRIOR TO OCCUPANCY, AND RECOMMENDATIONS FOR MAINTENANCE WITH FILTERS OF THE SAME VALUE SHALL BE INCLUDED IN THE INCLUDED IN THE OPERATION AND MAINTENANCE MANUAL. (CAL GREEN SECTION: 5.504.5.3).

INSTALLATIONS OF HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT SHALL COMPLY WITH SECTIONS 5.508.1.1 AND 5.508.1.2. HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT SHALL NOT CONTAIN CHLOROFLUOROCARBONS (CFCS) AND SHALL MOT CONTAIN HALONS (SECTION: 5.508.1).

34. INSTALLED FILTERS SHALL BE CLEARLY LABELED BY THE MANUFACTURER INDICATING THE MERV RATING.

35. BATHROOM EXHAUST FANS SHALL BE ENERGY STAR COMPLIANT AND DUCTED TO TERMINATE OUTSIDE THE BUILDING.

36. UNLESS FUNCTIONING AS A COMPONENT OF A WHOLE HOUSE VENTILATION SYSTEM, BATHROOM EXHAUST FANS MUST BE CONTROLLED BY HUMIDITY CONTROL, WHICH SHALL BE CAPABLE OF ADJUSTMENT BETWEEN A RELATIVE HUMIDITY RANGE OF 50 TO 80% (SEC 4.506.2).

ACCESS TO FIRE AND SMOKE DAMPERS, LARGE ENOUGH TO PERMIT INSPECTION AND MAINTENANCE OF THE DAMPER AND ITS OPERATING PARTS, SHALL BE PROVIDED. THE ACCESS SHALL NOT AFFECT THE INTEGRITY, NOR REDUCE THE FIRE-RESISTANCE RATING OF THE FIRE-RESISTANCE-RATED ASSEMBLIES. ACCESS POINTS SHALL BE PERMANENTLY IDENTIFIED ON THE EXTERIOR BY A LABEL HAVING LETTERS NOT LESS THAN 0.5" IN HEIGHT READING: FIRE/SMOKE DAMPER, SMOKE DAMPER OR FIRE DAMPER. ACCESS DOORS IN DUCTS SHALL BE TIGHT FITTING AND SUITABLE FOR THE REQUIRED DUCT

FIRE AND/OR SMOKE DAMPER ASSEMBLIES, INCLUDING SLEEVES, AND INSTALLATION PROCEDURES SHALL BE APPROVED BY THE BUILDING INSPECTOR PRIOR TO INSTALLATION.

2022 CALIFORNIA PLUMBING CODE (CPC)

 2022 CALIFORNIA REFERENCED STANDARDS CODE 2023 COUNTY OF LOS ANGELES BUILDING CODE (TITLE 26) 2023 COUNTY OF LOS ANGELES ELECTRICAL CODE (TITLE 27)

APPLICABLE CODES

 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC) 2022 CALIFORNIA BUILDING CODE (CBC) 2022 CALIFORNIA ELECTRICAL CODE (CEC) 2022 CALIFORNIA MECHANICAL CODE (CMC)

 2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR 2022 CALIFORNIA FIRE CODE (CFC) 2022 CALIFORNIA EXISTING BUILDING CODE (CEBC)

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGreen)

 2023 COUNTY OF LOS ANGELES PLUMBING CODE (TITLE 28) 2023 COUNTY OF LOS ANGELES MECHANICAL CODE (TITLE 29)

NAC NO 161-23025 DRAWN LB/CS CHECKED SP DATE 2/28/2025

MECHANICAL SCHEDULES

ITEMO	OVOTEM	LOCATION	INSU	ILATION	FIELD APPLIED	DEMARKO
ITEMS	SYSTEM	LOCATION	MATERIAL	THICKNESS	JACKET	REMARKS
DUCTWORK: LN - LINER; DW - DUCTWRAP; DB - DUCTBOARD	<u>"</u>					
SUPPLY AIR DUCT	ALL	INDOOR	LN	1"	-	
SUPPLY AIR DUCT	ALL	INDOOR	DW	2"	-	
RETURN AIR DUCT	ALL	INDOOR	LN	1"	-	
RETURN AIR DUCT	ALL	INDOOR	DW	2"	-	
GENERAL EXHAUST DUCT (NO ENERGY TO BE RECOVERED FROM AIR STREAM)	ALL	INDOOR/OUTDOOR	-	-	-	
TRANSFER DUCT	ALL	INDOOR	LN	1"	-	
PIPES: PPI - PREFORMED PIPE INSULATION; BKT - BLANKET INSULATION	1		•	1	1	

	SINGLE ZONE SPLIT SYSTEM SCHEDULE																						
				INDOO	R UNIT (HIGH WALL)											OUTDOO	OR UNIT						
EQUIPMENT					MECHANICAL COOLING			HEATING			CARRIER MODEL		NOMINAL	REFRIGERANT	COOLING	HEATING					HITACHI MODEL		
NUMBER	AREA SERVED	TOTAL CFM	ESP IN	EAT °F DI	B TOTAL CAPACITY MBH	SEER2	EAT °F DB	TOTAL CAPACITY MBH	HSPF 2	SOUND dBA	NUMBER	UNIT NUMBER	TONNAGE	TYPE	AMBIENT °F DB	AMBIENT °F DB	MCA	MOCP	V	PH	NUMBER	WEIGHT	NOTES
FC-1	MCR	706		80	24	22.7	70	27	10.3	41	RAV-SM242KRTP-UL	CU-1	2.0	R410A	95	43	17	25	208	1	RAV-SP-242AT2P-UL	152	1-9
		•							•	•		•				•		•	•	•			

PROVIDE REFRIGERANT PIPING AND INSULATION INCLUDING FULL REFRIGERANT CHARGE. SIZES SHALL BE BASED ON FINAL DEVELOPED LENGTH AND MR'S REQUIREMENTS. PROVIDE ALL REFRIGERANT PIPING ACCESSORIES PER MFR'S RECOMMENDATION. VERIFFY SIZING WITH MFR. PROVIDE WITH NON-CFC REFRIGERANT BASED SYSTEM

PROVIDE WITH NON-CPC REFRIGERANT BASED STSTEM
PROVIDE FAN COIL WITH POLYCARBONATE DRAIN PAN AND CONDENSATE DRAIN OVERFLOW CUTOUT SWITCH. INTERLOCK CUTOUT SWITCH AUTOMATICALLY SHUT-DOWN FAN COIL IN THE EVENT OF OVERFLOW.
PROVIDE UL 900 (CLASS 1 OR 2) MERV-13 DISPOSABLE PLEATED FILTERS.
PROVIDE WITH PROGRAMMABLE THERMOSTAT.

PROVIDE DISCONNECT SWITCH.

PROVIDE ALL CONTORL WIRING INSIDE CONDUIT AND ALL OTHER ACCESSORIES REQUIRED MY MFR FOR PROPER OPERATION.
PROVIDE WITH ACCESSORY CONDENSATE PUMP, POWERED SEPARATELY "CP-FC-1" LOCATED WITH UNIT. "TATTOO16-120V" OR SIMILAR 2.8 GAL/HR RATED AT 10' HEAD, 120V, 1PH, 1 AMP.

INDOOR UNIT POWERED BY OUTDOOR UNIT.

							MOT	OR DATA			
EQUIPMENT NUMBER	AREA SERVED	TYPE	CFM	EXT. SP IN-WG	dBA	DRIVE	FLA / MOCP	V	PH	GREENHECK MODEL NUMBER	NOTES
EF-1	STORAGE 114	CEILING MOUNTED CENTRIFUGAL	70	0.2	20	DIRECT	0.2 / 15	115	1	CSP-A110	1,2,3,4,
EF-2	MEN'S TR 112	CEILING MOUNTED CENTRIFUGAL	280	0.3	32	DIRECT	1.9 / 15	115	1	CSP-A390	1,2,3,4,
EF-3	WOMEN'S TR 111	CEILING MOUNTED CENTRIFUGAL	280	0.3	32	DIRECT	1.9 / 15	115	1	CSP-A390	1,2,3,4,
EF-5	STAFF TR 119	CEILING MOUNTED CENTRIFUGAL	70	0.2	20	DIRECT	0.2 / 15	115	1	CSP-A110	1,2,3,4,
EF-6	STAFF TR 116	CEILING MOUNTED CENTRIFUGAL	70	0.2	20	DIRECT	0.2 / 15	115	1	CSP-A110	1,2,3,4,
EF-7	JC 117	CEILING MOUNTED CENTRIFUGAL	70	0.2	20	DIRECT	0.2 / 15	115	1	CSP-A110	1,2,3,4,
EF-8	LEVEL 2 AND 3 STAFF TR'S	INLINE	300	0.7	58	DIRECT	3.8 / 15	115	1	SQ-98-VG	1,2,3,5

PROVIDE WITH INTEGRAL BACKDRAFT DAMPER.
PROVIDE ALL MOUNTING HARDWARE INCLUDING SEISMIC BRACING.

PROVIDE DECORATIVE WHITE STANDRD MANUFACTURERS CEILING GRILLE.

FAN TO RUN CONTINUOUSLY. COORDINATE PENETRATIONS IN ROOF AND/OR WALL WITH ARCHITECT AND STRUCTURAL ENGINEER.

	AIR DISTRIBUTION DEVICE SCHEDULE													
TAG	SERVICE	ТҮРЕ	AIR PATTERN	MATERIAL	PRICE MODEL NUMBER	NOTES								
CS-1	SUPPLY	ROUND CONAL DIFFUSER, DUCT MOUNT	4-WAY	STEEL	RCD	1,4								
EG-1	EXHAUST	45 DEGREE DEFLECTION HORIZONTAL BARS, SURFACE MOUNT	1-WAY	ALUMINUM	620L	1,4								
LR-1	RETURN	(2x) 1" SLOT LINEAR GRILLE LAY-IN FRAME	1-WAY	STEEL	SDS	1,4,5								
LS-2	SUPPLY	(1x) 1-1/2" SLOT LINEAR GRILLE LAY-IN WITH 72" INSULATED PLENUM	2-WAY	STEEL	SDS / SDBI	1,3,4,5								
R-1	RETURN	EGG CRATE LAY-IN 24/24 RETURN GRILLE	1-WAY	STEEL	80	1,2,4								
S-1	SUPPLY	8" INLET 24/24 PLAQUE LAY-IN DIFFUSER	4- WAY	STEEL	SPD	1,4								
S-2	SUPPLY	12" INLET 24/24/ PLAQUE LAY-IN DIFFUER	4- WAY	STEEL	SPD	1,4								

COLOR TO BE WHITE UNLESS OTHERWISE NOTED.
 PROVIDE 90 DEGREE LINED RIGID ELBOW ON ALL PLENUM RETURN GRILLES IN ENCLOSED ROOMS FOR SOUND ATTENUATION.

PROVIDE FIXED 2-WAY PATTERN CONTROLLERS.

COORDINATE WITH ARCHITECT CEILING AND LIGHTING PLAN.
ALL LINEAR SUPPLY SLOTS TO APPEAR CONTINUOUS WITH DISCRETE ACTIVE PORTIONS. PASSIVE GRILLES TO BE ADDED TO MAINTAIN CONTINUOUS FINISH LOOK.

1. REFER TO PROJECT SPECIFICATION AND/OR SPECIFICATION NOTES ON DRAWINGS FOR PRODUCT MATERIAL INFORMATION, AND INSTALLATION REQUIREMENTS. 2. NO INSULATION REQUIRED FOR EXPOSED DUCTS WITHIN THE SPACES THEY ARE SERVING. 3. REFER TO BASE BUILDING DRAWINGS AND MATCH.

CALIFORNIA ENERGY COMMISSION

Cooling Output^{2,3} Load Calculations^{3,4}

80

Required per Design Efficience

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Compliance ID: 233845-1024-0003

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Cooling Mode

Tables 110.2 /

Title 20

14.3

03

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Compliance ID: 233845-1024-0003

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04 05 06 07 08 09 10 11

Per Design (kBtu/h) (kBtu/h) Heating Output (kBtu/h) (kBtu/h) Rated (kBtu/h) Load (kBtu/h)

esign Efficiency | Efficiency Unit

SEER2

Heating Output^{2,3}

Equipment Sizing per Mechanical Schedule (kBtu/h)

140.4(a&b), 170.2(c)1 & 170.2(c)2

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Cooling

Load

(kBtu/h)

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Smallest Size

140.4(a) and

FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per

Heating Mode

Generated Date/Time:

01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 |

Airflow

02

FEI Exception

Altered Fan System

Altered Fan System

Generated Date/Time:

Exhaust air

No The scope of the project includes only duct systems serving healthcare facilities

The space conditioning system serves less than 5,000 ft² of conditioned floor area.

Yes All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A

< 25 ft of new or replacement space conditioning ducts installed

Yes All ductwork is an extension of an existing duct system

No Duct System Connected To Altered Space Conditioning System

Ductwork serving individual dwelling unit

Ductwork Existing To Remain

R-6 Duct Insulation R-value

zonal branch

Report Version: 2022.0.000

Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.

The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.

The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification

The <u>combined</u> surface area of the ducts is more than 25% of the total surface area of the entire duct system:

and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.

Schema Version: rev 20220101

Outdoor

Airflow

Design Supply

Airflow Rate

Report Version: 2022.0.000

Schema Version: rev 20220101

Exhaust Air Exhaust Air

per 140.4(q) & 170.2(c)40

170.2(c)4O

NA: Process

system serving

laboratory and/or factory

exhaust

NA: Process

system serving

laboratory

and/or factory

| Heat Recovery | Heat Recovery | Type Of Heat |

at Full Design Requirement 140.4(q) & Recovery Rating Recovery Ratio

Dwelling Units: Total duct leakage of duct system shall not exceed 15%

Duct leakage testing per CMC Section 603.9.2 required for these

or duct system to outside shall not exceed 10% per RA3.1.4 required

Required per

Tables 110.2 /

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

04

Efficiency Unit

170.2(c)1

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

Equipment Type per Tables 110.2 and

²It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.

Condition

(°F)

³ If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.

DATE 2/28/2025

TITLE 24

STATE OF CALIFORNIA Mechanical Systems CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b)2 for alterations **Project Name:** Huntington Park Library Renovation Report Page: (Page 1 of 12) Project Address: 2024-10-16T20:36:46-04:00

A. GENERAL INFORMATION 01 Project Location (city) Huntington Park 04 Total Conditioned Floor Area 36024 02 Climate Zone 75 Total Unconditioned Floor Area 03 Occupancy Types Within Project: 06 |# of Stories (Habitable Above Grade)

B. PROJECT SCOPE This table Includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations. Air System(s) Wet System Components Dry System Components ☐ Heating Air System ☐ Water Economize ☐ Air Economizer ☐ Pumps ☐ Electric Resistance Heat Mechanical Controls ☐ System Piping Mechanical Controls (existing to remain, altered ☐ Cooling Towers Ductwork (existing to remain, altered or new) ✓ Ventilation ☐ Boilers

Documentation Software: Energy Code Ace Generated Date/Time: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 233845-1024-0003 Schema Version: rev 20220101 Report Generated: 2024-10-16 17:36:51 STATE OF CALIFORNIA Mechanical Systems CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-MCH-E **Project Name:** Huntington Park Library Renovation (Page 4 of 12) Date Prepared: 2024-10-16T20:36:46-04:00 H. FAN SYSTEMS & AIR ECONOMIZERS

nis table is used to demonstrate compliance with prescriptive requirements found in 140.4(c), 140.4(e), 140.4(m), 170.2(c)3, and 170.2(c)4A for fan systems. Fan systems serving only rocess loads are exempt from these requirements and do not need to be included in Table H. Alteration System other Zoning systems Units Dwelling Units System Airflow (cfm) Fan System 170 packaged Name 1,4,5,6,7 y Status AC or HP <54 kBtu/h 10 | 11 01 | 02 | 03 04 05 | 06 | 07 | 08 Allowance Component Allowance Electrical Component Gauge Design Electrical Input Power Component (%) Allowance (watt/cfm) Nameplate Input (w.g) Power (kW) 0.07 1,4,5,6, Exhaust 0.02 Manufacturer provided Fully ducted, or Systems that maintain pressure differential 0.116 Supply Fan Base Exhuast/Return/Relief/Transfer Fan Base Fan System Allowance Fan System Electrical Allowance Input Power (kW) Allowance(watt/cfm) (watt/cfm)

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 233845-1024-0003 Schema Version: rev 20220101 Report Generated: 2024-10-16 17:36:51 STATE OF CALIFORNIA **Mechanical Systems** CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-MCH-E **Project Name:** Huntington Park Library Renovation Date Prepared: 2024-10-16T20:36:46-04:00

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I. SYSTEM CONTROLS This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (n), 170.2(c)4D 170.2(c)4L or requirements in 141.0(b)2E 180.2(b)2 for altered space conditioning systems. Shut-Off Thermostats d Floor Demand Response Controls | Window Interlocks per | Direct Digital Control 120.2(a) 160.3(a)2A or 120.2(e) & 120.2(g) & 141.0(b)2E & 180.2(b)2 160.3(a)2D 160.3(a)2F Area Being 110.12 120.2(b) & Reset System Name 140.4(n) & 170.2(c)4D | (DDC) per 120.2 Served 140.4(f) & 160.3(a)2B w/ DDC to Altered per Altered per DR Tstat per 110.12 NA: Alteration Project

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

have setback thermostats. J. VENTILATION AND INDOOR AIR QUALITY his table is used to demonstrate compliance with mandatory ventilation requirements in 120.1 120.2(e)3B 140.4(p) and 140.4(q) for all nonresidential and hotel/motel and d:t24refnolink/]160.2, 160.3(a)3D, 170.2(a)4N, 170.2(a)4O for high-rise residential occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflows may be shown on the plans or the calculations can be presented Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table. Check this box if the project included Nonresidential, Hotel/Motel Spaces or Multifamily Common Use Spaces Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per 120.1(c)2.

Airflow CFM CFM CFM CFM DB Rate? CFM L. DISTRIBUTION (DUCTWORK and PIPING) This table is used to show compliance with mandatory pipe insulation requirements found in 120.3 and mandatory requirements found in 120.4(g) for duct sealing. nsulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to outside the conditioned space shall have a Class I or Class II vapor retarder. All penetrations and joints of which shall be sealed. Duct Leakage Testing NR/ Common Use: Duct leakage testing shall not exceed 15% per The answers to the questions below apply to the following duct systems: NA7.5.3 required for these systems?

06 07 08 09 | 10 | 11 Deadband Compliance Reheated, Recooled, Mixed Air Compliance Peak Primary Recooled Outside 30% of Peak Zone/System/VAV Box Zonal Control Strategy per Primary Air in Mixed Air Primary Deadband Primary °F and Maintains Modulates <=95 | Airflow | Deadband | Airflow | CFM | 140.4(d) Name or Item Tag DB Flow to Airflow Airflow weather shall be installed with a cover suitable for outdoor service. Insulation covering chilled water piping and refrigerant suction piping located

This table is used to demonstrate compliance with prescriptive zone control requirements in 140.4(d) & 170.2(c)4B.

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES" NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance. Summary 110.1, Ventilation | AND | Controls | A 120.3, 140.4(k), 140.4(c), 110.2, 120.2, 110.2, 120.1, 160.2 140.4(d), 140.4(I), 110.2(e)2 Compliance Results 170.2(c)4I 140.4(f), 140.4(e), 140.4, 170.2(c)4B 160.2, 160.3 170.2(c) 170.2(c) (See Table F) (See Table G) (See Table H) (See Table I) (See Table J) (See Table K) (See Table M) (See Table L) COMPLIES with Exceptional Conditions Mandatory Measures Compliance (See Table Q for Details

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D. EXCEPTIONAL CONDITIONS This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form. The permit applicant has indicated on Table J that ventilation calculations have been attached or included elsewhere on the plans.

E. ADDITIONAL REMARKS This table includes remarks made by the permit applicant to the Authority Having Jurisdiction. F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS) Space Conditioning System Information 03 04 System Name System Serving System Status Space Type Utilizing Recovered Heat Quantity Single zone New/ Addition All Other Occupancies

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System Name	EF-2,3,8	Quantit y		Fan System Status	Alteration	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	280	Site Elevation	171	Economizer	NA: Altered other than packaged AC or HP <54 kBtu/h
01	02	03		04		0	5	06	07	08	09		10	11	
									Allowance		Design				
Fan Name or Item Tag	Fan Type	Qty		Component			through nent (%)	Water Gauge (w.g)	Component Allowance (watt/cfm)	Fan Allowance (watt/cfm) ³	Design E	Electrical Inpu Method	ut Power	Motor Nameplate Horsepower	Fan Electrical Input Power (kW)
Ef-2,3,8 Exhau:	Exhaust	Exhaust	1		ducted, or Syste ain pressure di between roon	fferential	erential 100			0.116	0.186	Manufacturer provided			0.21
			Altered:Exhaust/Relief/Return/Tra nsfer Fan System		10	00		0.07							
Supply Fan Base Allowance (watt/cfm)			Exh	nuast/Return/F Allowar	Relief/Trans nce(watt/cfr		ase		Fan System (kW					m Electrical ower (kW)	0.22

	Supply Fan Base Allowance (watt/cfm)			Exhuast/Return/Relief/Transf Allowance(watt/cfr		Fan System (kW		
				Altered:Exhaust/Relief/Return/Tra nsfer Fan System	100	0.07		
E	Ef-2,3,8	Exhaust	1	Fully ducted, or Systems that maintain pressure differential between rooms	100	0.116	0.186	Manufacture

¹ FOOTNOTES: Fans serving spaces with design background noise goals below NC35 ² Low-turndown single-zone VAV fan system must be capable of and configured to reduce airflow to 50 percent of design airflow and use no more than 30 percent of the design wattage at that airflow. No more than 10 percent of the

design load served by the equipment shall have fixed loads. ³ Fan system allowance includes fan system base allowance.

STATE OF CALIFORNIA

Mechanical Systems

CERTIFICATE OF COMPLIANCE

C. COMPLIANCE RESULTS

Project Name: Huntington Park Library Renovation

⁴ Filter pressure loss can only be counted once per fan system. ⁵ Complex Fan System means a fan system that combines a single cabinet fan system with other supply fans, exhaust

⁶ Computer room economizers must meet requirements of 140.9(a) and will be documented on the NRCC-PRC-E

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STATE OF CALIFORNIA Mechanical Systems **CALIFORNIA ENERGY COMMISSION** CERTIFICATE OF COMPLIANCE NRCC-MCH-E **Project Name:** Huntington Park Library Renovation (Page 8 of 12 Date Prepared: 2024-10-16T20:36:46-04:00

K. TERMINAL BOX CONTROLS

STATE OF CALIFORNIA

Name or Item

Name or Item

CU-1

This section does not apply to this project.

Project Name: Huntington Park Library Renovation

H. EXHAUST AIR HEAT RECOVERY 140.4(q), 170.2(c)40

Name or Item Tag

EF-1,4,5,6,7

EF-2,3,8

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Operation per

Mechanical Systems

CERTIFICATE OF COMPLIANCE

Fan System

EF-1,4,5,6,7

EF-2,3,8

Fan Energy Index (FEI)

Mechanical Systems

CERTIFICATE OF COMPLIANCE

13

21

M. COOLING TOWERS

This section does not apply to this project.

Project Name: Huntington Park Library Renovation

L. DISTRIBUTION (DUCTWORK and PIPING)

G. PUMPS

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Mechanical Systems

CERTIFICATE OF COMPLIANCE

Project Name: Huntington Park Library Renovation

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Equipment Category per

170.2(c)3aii

140.4(a) and 170.2(c)1. Healthcare facilities are excepted.

Tables 110.2, 140.4(a)2 and

CU-1 Unitary AC/ Condensers AC, air cooled, split (1 phase)

Size Category

<45,000

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

⁴ Authority Having Jurisdiction may ask for load calculations used for compliance per 140.4(b) and 170.2(c).

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N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION		
Selections have been made based on information provided in previous tables of this document.	If any coloction poods to be changed places evaluin why in	Table E Additional Remarks
These documents must be provided to the building inspector during construction and can be fou		Tuble E Additional Remarks.
https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standar		
Form/Ti	itle	
<u> </u>		
NRCI-MCH-01-E - Must be submitted for all buildings		
O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE		
Selections have been made based on information provided in previous tables of this document.	If any selection needs to be changed inlease explain why in	 Tahle F Δdditional Remarks
These documents must be provided to the building inspector during construction and can be fou		Table E Additional Nemarks.
https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standar		
Form/Title		Systems/Spaces To Be Field
Formy fille		Verified
NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCI	H-02-A can be performed in conjunction with MCH-07-A	
Supply Fan VFD Acceptance (if applicable) since testing activities overlap.		
P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION		
There are no NRCV forms required for this project.		
There are no times joints required for this project.		

					Form/ little								03
VRCI-MCH-	-01-E - Must be	submitted for	all buildings									Man	datory Measur
										uipment Efficiency p			
. DECLAF	RATION OF RE	QUIRED CER	TIFICATES OF	ACCEPTANCE					<u> </u>	uipment Efficiency pe			
elections h	have been mad	e based on inf	ormation provi	ided in previous tables of	this document. If any selection needs to	be changed, pla	ease explain why in	Table E Additional Remarks.		andby Loss Control p tion per 120.4	er 110.2(d)		
					n and can be found online at	<i>ff</i> :-:				with Supplemental	electric Resi	stance Heater	Controls per 1
ttps://ww	w.energy.ca.go	v/programs-a	na-topics/prog		ficiency-standards/2022-building-energ	iy-ejjiciency-4		Systems/Spaces To Be Field		t and plenum system			•
				Form/Ti	tle			Verified	Kitchen rar	ge hoods shall be ra	ted for soun	d in accordan	ce with Section
				all newly installed HVAC ι gactivities overlap.	units. Note: MCH-02-A can be performed	d in conjunction	with MCH-07-A						
<u> </u>	VI D / looeptune	e (ii appiidasi	e, since testing	, accivities everlap.				<u></u>					
		•		VERIFICATION									
here are n	no NRCV forms i	required for th	is project.										
CA Building	g Energy Efficienc	v Standards - 20	122 Nonresident	ial Compliance	Generated Date/Time: Report Version: 2022.0.000			tation Software: Energy Code Ace ompliance ID: 233845-1024-0003	CA Building	; Energy Efficiency Stan	dards - 2022	Nonresidential	Compliance
CA Building	chergy Efficienc	y Standards - 20	JZZ NOMESIGEM	iai comphance	Schema Version: rev 20220101			Generated: 2024-10-16 17:36:51	CA Bulluling	, Energy Efficiency Stan	uarus - 2022	Nomesidential	Compliance
STATE OF CALI	FORNIA ic Water H	eating Sys	tem				CALL	IFORNIA ENERGY COMMISSION	STATE OF CALI	FORNIA ic Water Heati	ng Syste	m	
	OF COMPLIANC						CALI	NRCC-PLB-E		OF COMPLIANCE	ing Oyote	•••	
alterations,	, for domestic w	vater heating :	scopes using th	ne prescriptive path. For h	es with requirements in 110.1, 110.3, 12 high-rise residential and hotel/motel occ		•	- I	Project Nam	ne: Huntington Park	Library Renc	ovation	
Project Nam Project Addi	ne: Huntingto	n Park Library R	·	ts 180.1 for additions and	Report Page: Date Prepared:			(Page 1 of 7) 2024-10-16T20:03:11-04:00					
					Date Frepareu.			2027 10 10120.03.11-04.00	F. DOMES	TIC HOT WATER EC	UIPMENT		
. GENERA	AL INFORMAT	cation (city)		Huntington Park	O2 Clima	ate Zone		8		s used to demonstra			
	Occupancy Typ		 ject (select all t		02 Clima	ate zone		0		trated and with 141. Schedule: Water He			
• Library										03		04	
									Customs		F.v.s.matis.m	- +- 140 F/-)/	Fusantiana D
B. PROJEC									System Name	EWH-1		n to 140.5(c)/ 0.2(d)3	Exceptions D Not Apply
					the permit application and are demons Solar water heating systems are docun								
				e NRCC-MCH compliance	_ ·	nemed on the W	nee 3/18 compnaire	e document. combined	07	08	09	Patad Innut	10 Max GPM/ Fir
		0:			02			03	Name or	Equipment Type	Volume	Capacity	Hour Rating
7 1			(check all that		System Type ^{1,2}			em Components	Item Tag		(gal)	(Btu/h)	(FHR)
	ystem (DHW sy: n Alteration (eq			·	Individual System (serving nonreside			☐ Distribution ☐ Controls☐ Distribution☐ Controls☐	534/11.4	Consumer Rated Electric			0 . 6004 .4
<u>·</u>				·	I serve nonresidential spaces, are conside				EWH-1	Instantaneous (<=2		0 <= GPM <1
Dwelling เ	units refers to h	otel/motel gu	est rooms and	units in a multifamily res	idential occupancy.	,			1FOOTNOT	<=12kW) E: In systems >= 1MN	 1Btu/h with	multiple units	s, gas water he
DHW syst	ems serving 2 c	or more dwelli	ng units are co	nsidered "Central System	s" for multifamily occupancies				average.	•		·	
. COMPL	IANCE RESULT	ΓS							I	E: Compliant equipm ertappliances.energy			
	-	-	•	· ·	mpliant with water heating requiremen	nts. If this table s	ays "DOES NOT CO	MPLY" or "COMPLIES with		ting Equipment All C			ivanceasearch.
xceptional		fer to Table D.	or the table in	dicated as not compliant			04			Yes	No	Not	
Dome	01 estic Hot Water	Eguipment	Г	02 Distribution Systems	03 Controls		04		4.0			Applicable	11,-4:
231116	Table F			Table G	Table H		Compliance	Results	18 19				Unfired storage New state bui
	Yes			Yes	Yes		COMPL	LIES	20				Isolation valve
. EXCEPT	IONAL COND	ITIONS							21			\boxtimes	School buildir
			comments beco	ause of selections made o	r data entered in tables throughout the	form.							systems servi
					Generated Date/Time:		Document	tation Software: Energy Code Ace					
CV Drilli-	Fnorm, Fff:-:	v Standard - 20	122 Nongo:	ial Compliance	·				CA Buildin	Energy Efficier - Ct	darda 2022	Nonrosida-et-l	Compliance
CA Building	g Energy Efficienc	y Standards - 20	J22 Nonresident	iai Compilance	Report Version: 2022.0.000 Schema Version: rev 20220101			ompliance ID: 233845-1024-0002 Generated: 2024-10-16 17:03:14	CA Building	Energy Efficiency Stan	dards - 2022	Nonresidentiai	Compliance
TATE OF CALI	FORNIA								STATE OF CALI	FORNIA			
omest	ic Water H	eating Sys	tem				CALI	IFORNIA ENERGY COMMISSION	Domest	ic Water Heati	ng Syste	m	
	OF COMPLIANC				In			NRCC-PLB-E		OF COMPLIANCE	5		
roject Nam	ie: Huntingto	n Park Library R	enovation		Report Page: Date Prepared:			(Page 5 of 7) 2024-10-16T20:03:11-04:00	Project Nam	ne: Huntington Park	Library Kend	ovation	
DOMES	STIC HOT WAT	FR CONTROL	IS										
				trol requirements in 110.3	3 for all occupancies. For multifamily res	sidential and hot	el/motel occupanc	ies, compliance is also		ATION OF REQUIR			
	ted with require	•	.4(e) / 170.2(d)	-			,			have been made bas Remarks. These docu			
	Yes	No	Not Applicable		Requir	rement			, taditional			J PI OVIGEU I	
01	\boxtimes				s require manufacturer certification that		neating systems are	e equipped with automatic	NDCI DID E	- Must be submitted	for all built	dings	
01	<u> </u>				pable of adjusting temperature settings		role non 110 3/-\1	place covared by Califarnia	INKCI-PLB-F	- Must be submitted	i ioi ali bullo	umgs	
02				Systems with capacity > Plumbing Code 613.0.	167,000 BTUH equipped with outlet ter	mperature contr	ois per 110.3(c)1 u	niess covered by California	J. DECLAR	ATION OF REQUIR	ED CERTIFI	CATES OF AC	CCEPTANCE
03				Controls for circulating p	oumps or electrical heat trace systems a	are capable of au	itomatically turning	g off the system per	There are r	o forms required for	this project		
				· ·	ms serves healthcare facility. s serving multiple dwelling units, design	n includes autom	natic numn controls	s per 170 2(d) or 180 1(b)2 for	K. DECLAF	RATION OF REQUIR	ED CERTIF	ICATES OF VI	ERIFICATION
04				additions.		. meidues autoff		, bei 1,0.5(a) oi 100.1(b)3 ioi		o forms required for			
05			\boxtimes	· '	s serving individual dwelling units, desig	gn includes man	ual on/off controls	as specified in Reference			_	_	
				Appendix RA4.4.9 per 1									
				ICombustion air nositive	shut-off shall be provided per 160.4(3).	on all newly inc	alled commercial h	poilers as follows:					

CA Building	Energy Efficien	cy Standards - 2	022 Nonresident	·	Version: 2022.0.000 a Version: rev 20220101	Compliance ID: 233845-1024-000 Report Generated: 2024-10-16 17:03:
STATE OF CALIF		leating Sys	stem			CALIFORNIA ENERGY COMMISSI
CERTIFICATE	OF COMPLIAN	CE				NRCC-PL
Project Name	: Huntingt	on Park Library	Renovation		Report Page:	(Page 5 o
					Date Prepared:	2024-10-16T20:03:11-04
H. DOMES	TIC HOT WA	TER CONTRO	LS			
		•).4(e) / 170.2(d)		upancies. For multifamily residentia	l and hotel/motel occupancies, compliance is also
	Yes	No	Not Applicable		Requirement	
01				temperature controls capable of ac	justing temperature settings per 11	
02			⋈	Plumbing Code 613.0.		ure controls per 110.3(c)1 unless covered by California
03			⋈	§110.3(c)2 unless systems serves h	ealthcare facility.	ble of automatically turning off the system per
04			⋈	For recirculation systems serving madditions.	ultiple dwelling units, design includ	es automatic pump controls per 170.2(d) or 180.1(b)3 f
05			⊠	For recirculation systems serving in Appendix RA4.4.9 per 170.2(d).	dividual dwelling units, design inclu	des manual on/off controls as specified in Reference
06				Boilers with input capacity > pressure	= 2.5 MMBtu/h, in which the boiler	ewly installed commercial boilers as follows: is designed to operate with a nonpositive vent static combined input capacity per stack of 2.5 MMBtu/h.
07			⊠		n by a variable speed drive OR	ollowing mand to <=30% of the total design wattage at 50% of th
				maintain excess (stack-gas) oxygen	concentrations <= 5% by volume on pect to firing rate or flue gas oxyger	a steady state full-load combustion efficiency < 90% sha a dry basis over firing rates of 20-100%. Combustion ai a concentration. Use of a common gas and combustion

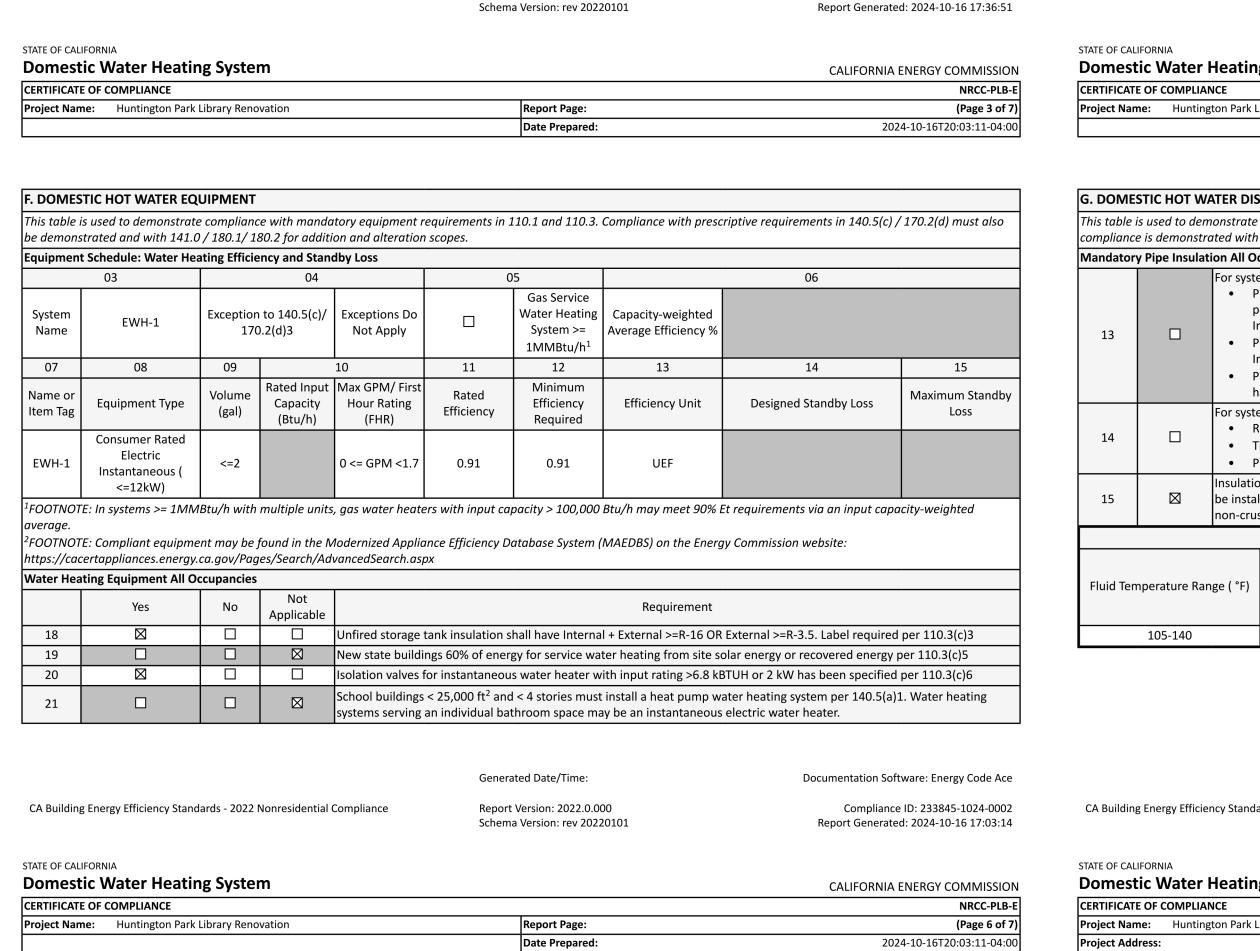
CERTIFICATE OF COMPLIANCE Project Name: Huntington Park Library Renovation	Report Page:	NRCC-MCH (Page 11 of 1:		
Huntington Fair Library Neriovation	Date Prepared:	2024-10-16T20:36:46-04:0		
	Date Flepaleu.	2024-10-10120.30.40-04.0		
Q. MANDATORY MEASURES DOCUMENTATION LOCATION				
This table is used to indicate where mandatory measures are documented in th	e plan set or construction documentatio	n.		
01		02		
Compliance with Mandatory Measures documented through MCH	No	Plan sheet or construction document location		
Mandatory Measures Note Block	NO			
03		04		
Mandatory Measure		Plan sheet or construction document location		
Heating Equipment Efficiency per 110.1		Mechanical Schedules		
Cooling Equipment Efficiency per 110.1		Mechanical Schedules		
Furnace Standby Loss Control per 110.2(d)		N/A		
Duct Insulation per 120.4	Mechanical General Notes			
Heat Pump with Supplemental electric Resistance Heater Controls per 110.2(b)	N/A			
The air duct and plenum system is designed per 120.4(a)-(f)		M-sheets		
Kitchen range hoods shall be rated for sound in accordance with Section 7.2 of	ASHRAE 62.2	N/A		

Generated Date/Time:

Report Version: 2022.0.000

STATE OF CALIFORNIA

Mechanical Systems



	lections 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. Iditional Remarks. These documents must be provided to the building inspector during construction and can be found online
	Form/Title
NR	CI-PLB-E - Must be submitted for all buildings
J. I	DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
Th	ere are no forms required for this project.
K.	DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION
Th	ere are no forms required for this project.

	Mechanical Systems		CALIFORNIA ENERGY COMMISSIO
NRCC-MCH-E	CERTIFICATE OF COMPLIANCE		NRCC-MCF
(Page 11 of 12)	Project Name: Huntington Park Library Renovation	Report Page:	(Page 12 of
2024-10-16T20:36:46-04:00	Project Address:	Date Prepared:	2024-10-16T20:36:46-0 ⁴
	DOCUMENTATION AUTHOR'S DECLARATION STATEMENT		
	I certify that this Certificate of Compliance documentation is accurate	te and complete.	
02	Documentation Author Name:	Documentation Author Signature:	
	Logan Blosser	Documentation Author Signature.	Des R
struction document location	Company:	Signature Date:	
	Salas O'Brien	10-16-2024	
04	Address: 4160 Temescal Canyon Rd	CEA/ HERS Certification Identification (if applie	cable):
struction document location	City/State/Zip: Corona/CA/92883	Phone: 949-753-1553	
anical Schedules	RESPONSIBLE PERSON'S DECLARATION STATEMENT	040 700 1000	
anical Schedules	I certify the following under penalty of perjury, under the laws of the State of California:		
N/A	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 respor	nsibility for the building design or system design identified on this	Certificate of Compliance (responsible designer)
nical General Notes	3. The energy features and performance specifications, materials, components, and m	anufactured devices for the building design or system design ident	tified on this Certificate of Compliance conform to the requirem
N/A	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 at	har applicable compliance decuments, workshoots, calculations
M-sheets	plans and specifications submitted to the enforcement agency for approval with thi		ner applicable compliance documents, worksheets, calculations,
N/A	5. I will ensure that a completed signed copy of this Certificate of Compliance shall be		and made available to the enforcement agency for all applicable
	inspections. I understand that a completed signed copy of this Certificate of Compli	ance is required to be included with the documentation the builde	er provides to the building owner at occupancy.
	Responsible Designer Name:	Responsible Designer Signature:	
	Simon Painter		
	Company:	Date Signed:	
	Salas O'Brien	10-16-2024	
	Salas O'Brien Address: 4160 Temescal Canyon Rd	10-16-2024 License: M34993	
	Salas O'Brien	10-16-2024	
cumentation Software: Energy Code Ace Compliance ID: 233845-1024-0003	Salas O'Brien Address: 4160 Temescal Canyon Rd	10-16-2024 License: M34993 Phone: 949-753-1553 Generated Date/Time: Report Version: 2022.0.000	Documentation Software: Energy Code A Compliance ID: 233845-1024-000
	Salas O'Brien Address: 4160 Temescal Canyon Rd City/State/Zip: Corona/CA/92883 CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	10-16-2024 License: M34993 Phone: 949-753-1553 Generated Date/Time:	
Compliance ID: 233845-1024-0003 eport Generated: 2024-10-16 17:36:51	Salas O'Brien Address: 4160 Temescal Canyon Rd City/State/Zip: Corona/CA/92883 CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance STATE OF CALIFORNIA	10-16-2024 License: M34993 Phone: 949-753-1553 Generated Date/Time: Report Version: 2022.0.000	Compliance ID: 233845-1024-00 Report Generated: 2024-10-16 17:36:
Compliance ID: 233845-1024-0003 eport Generated: 2024-10-16 17:36:51 CALIFORNIA ENERGY COMMISSION	Salas O'Brien Address: 4160 Temescal Canyon Rd City/State/Zip: Corona/CA/92883 CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance STATE OF CALIFORNIA Domestic Water Heating System	10-16-2024 License: M34993 Phone: 949-753-1553 Generated Date/Time: Report Version: 2022.0.000	Compliance ID: 233845-1024-00 Report Generated: 2024-10-16 17:36 CALIFORNIA ENERGY COMMISS
Compliance ID: 233845-1024-0003 eport Generated: 2024-10-16 17:36:51 CALIFORNIA ENERGY COMMISSION NRCC-PLB-E	Salas O'Brien Address: 4160 Temescal Canyon Rd City/State/Zip: Corona/CA/92883 CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance STATE OF CALIFORNIA Domestic Water Heating System CERTIFICATE OF COMPLIANCE	In the second se	Compliance ID: 233845-1024-00 Report Generated: 2024-10-16 17:36 CALIFORNIA ENERGY COMMISS NRCC-PI
Compliance ID: 233845-1024-0003 eport Generated: 2024-10-16 17:36:51 CALIFORNIA ENERGY COMMISSION	Salas O'Brien Address: 4160 Temescal Canyon Rd City/State/Zip: Corona/CA/92883 CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance STATE OF CALIFORNIA Domestic Water Heating System	10-16-2024 License: M34993 Phone: 949-753-1553 Generated Date/Time: Report Version: 2022.0.000	Compliance ID: 233845-1024-00 Report Generated: 2024-10-16 17:36 CALIFORNIA ENERGY COMMISS

				onresidential occupancies with di 0.3(c), 160.4, 170.2(d).	stribution require	ements in 120.3 an	d 140.5. For multifamily and l	hotel/motel occupancies,
Mandator	y Pipe Insula	tion All O	ccupancies					
13		• P	iping that penetrates metal for sulation shall abortion shall abortion installed in a sulation Installation Installat	ing units, pipe insulation must me ates framing members shall not b raming shall use grommets, plugs ut securely against all framing me interior or exterior walls shall not ion (QII) as specified in the Refere with a minimum of 1 inch of wall	e required to have, wrapping or others be required to hence Residential A	ve pipe insulation f her insulating mate ave pipe insulation Appendix RA3.5.	for the distance of the framing erial to assure that no contact on if all of the requirements are	g penetration. Piping that it is made with the metal framing met for compliance with Qual
14		• R	ecirculating syste	esidential spaces, pipe insulation medication medication medication in piping, including supply and reactions and cold outlet piping, including trailly heated	turn piping of the	e water heater		
15	×	be insta	•	ted from damage, including that o suitable for outdoor service per 1 leeve.	_			
		·		TABLE 120.3-A / 16	0.4-A PIPE INSU	JLATION THICKN	ESS	
			Conductivity				Nominal Pipe Diameter (in)	
Fluid Temperature Range (°F)		Range (Btu-in Insulation Mean Rating Temp		Insulation Mean Rating Temp ($^{\circ}\text{F})$	< 1	1 to < 1.5	1.5 to < 4	1.5 to < 4 Multifamily 8 Hotel/Motel
			per °F)				Minimum Insulation Require	nd .
							William insulation require	·u

02 14	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220101	Compliance ID: 233845-1024-0002 Report Generated: 2024-10-16 17:03:14
	STATE OF CALIFORNIA		
ON	Domestic Water Heating System		CALIFORNIA ENERGY COMMISSION
В-Е	CERTIFICATE OF COMPLIANCE		NRCC-PLB-E
f 7)	Project Name: Huntington Park Library Renovation	Report Page:	(Page 7 of 7)
:00	Project Address:	Date Prepared:	2024-10-16T20:03:11-04:00
.00	i Toject Address.	Date Heparea.	2027 10 10120103.11 07
_	DOCUMENTATION AUTHOR'S DECLARATION STATEMENT		

Generated Date/Time:

Company: Salas O'Brien	Signature Date: 10-16-2024
Address: 4160 Temescal Canyon Rd	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Corona/CA/92883	Phone: 949-753-1553
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 response	onsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
 The energy features and performance specifications, materials, components, and r of Title 24, Part 1 and Part 6 of the California Code of Regulations. 	manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements
 The building design features or system design features identified on this Certificate plans and specifications submitted to the enforcement agency for approval with the 	e of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, nis building permit application.
, , , , , , , , , , , , , , , , , , , ,	e made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable liance is required to be included with the documentation the builder provides to the building owner at occupancy.
Responsible Designer Name: Simon Painter	Responsible Designer Signature:
Company: Salas O'Brien	Date Signed: 10-16-2024
Address:4160 Temescal Canyon Rd	License: M34993
City/State/Zip: Corona/CA/92883	Phone: 949-753-1553

Generated Date/Time:

ocumentation Author Signature:

Report Generated: 2024-10-16 17:03:14

Schema Version: rev 20220101

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

Documentation Author Name:

Logan Blosser

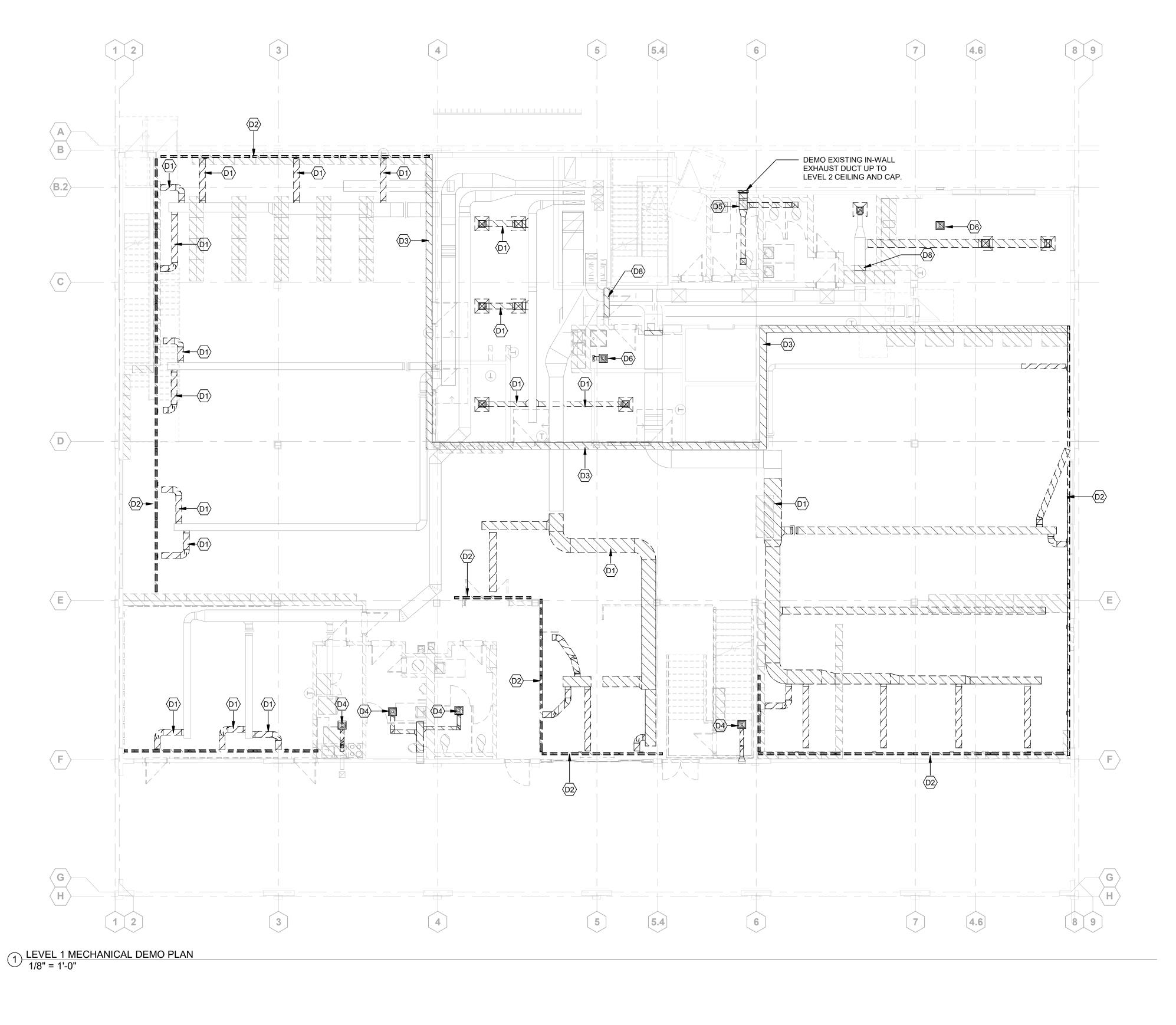
Documentation Software: Energy Code Ace

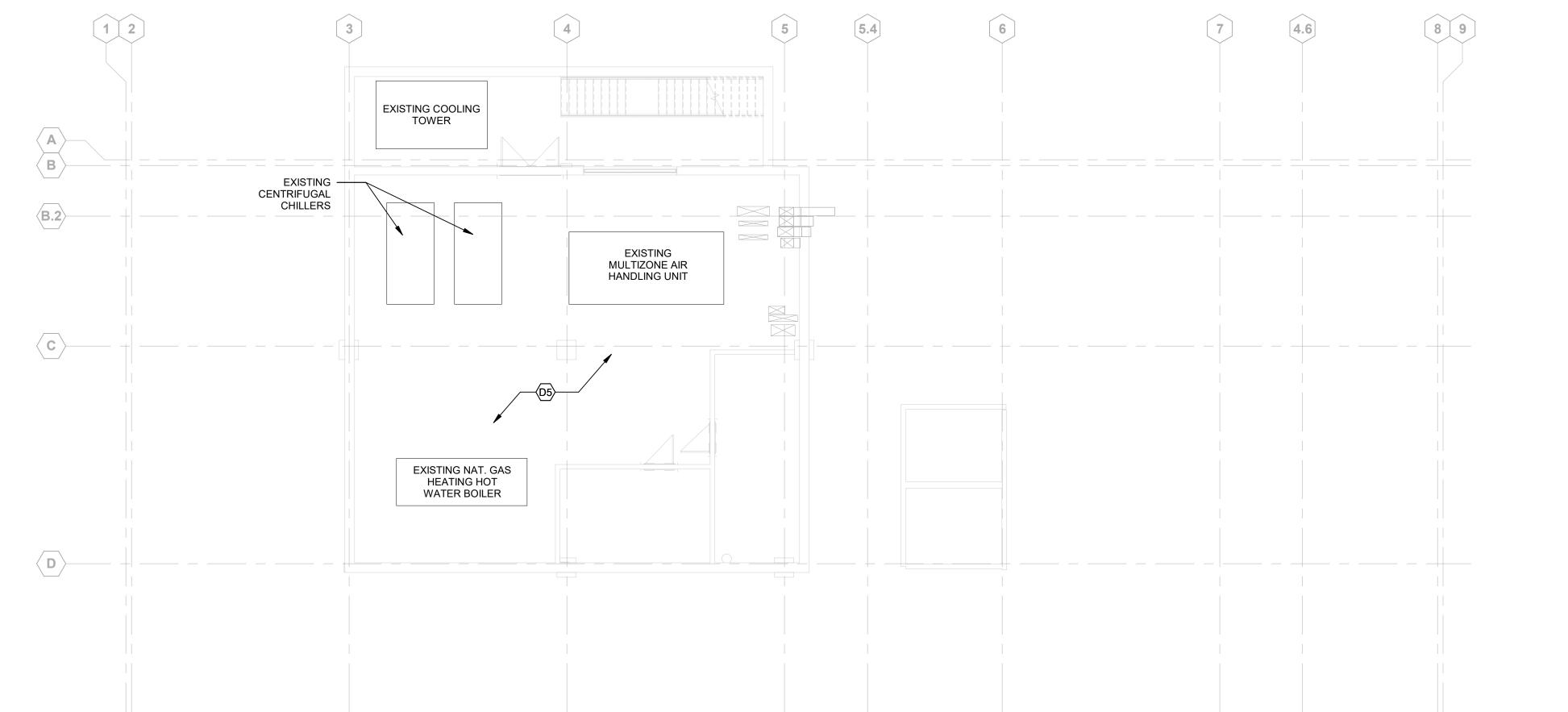
Documentation Software: Energy Code Ace



NAC NO 161-23025 DRAWN LB/CS CHECKED SP DATE 2/28/2025

> MECHANICAL DEMO PLAN -BASEMENT AND FIRST FLOOR





2 BASEMENT MECHANICAL DEMO PLAN 1/8" = 1'-0"

6/4/2025 9:03:39 AM Autodesk Docs://161-23025 LADPW LAC Huntington Library Renovation/2023-03451 LAC HP Library - Mechanical & Plumbing.rvt

GENERAL NOTES

- CONTRACTOR SHALL FIELD VERIFY EXISTING
 CONDITIONS, DETERMINING EXTENT OF DEMOLITION,
 AND COORDINATE WITH ALL OTHER TRADES. IN CASE OF
 DISCREPANCIES OR ANY POTENTIAL CONFLICTS, INFORM
 THE ARCHITECT AND ENGINEER IN WRITING PRIOR TO START OF WORK.
- ALL EXISTING EQUIPMENT, DUCTWORK AND AIR DISTRIBUTION DEVICES, WHICH ARE TO REMAIN, SHALL BE CLEANED AND REFURBISHED TO ORIGINAL WORKING
- C. ALL WORK TO BE DEMOLISHED OR REMOVED SHALL NOT BE RE-INSTALLED UNLESS NOTED OTHERWISE.

KEY NOTES

- D1 DEMO EXISTING SUPPLY BRANCH BACK TO MAIN AND CAP. TO BE RECONNECTED.
- D2 DEMO EXISTING LINEAR SLOT SUPPLY DIFFUSER.
- D3 DEMO EXISTING LINEAR SLOT RETURN GRILLE. D4 DEMO EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK TO LOUVER AND CAP.
- D5 UNLESS NOTED OTHERWISE, ALL MECHANICAL EQUIPMENT IN BASEMENT TO REMAIN. D6 DEMO EXISTING EXHAUST FAN.
- D8 DEMO EXISTING FUSIBLE LINK FIRE DAMPER IN DUCTS THRU CORRIDOR WALL.

GENERAL NOTES

START OF WORK.

TO BE RECONNECTED.

D6 DEMO EXISTING EXHAUST FAN.

CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS, DETERMINING EXTENT OF DEMOLITION, AND COORDINATE WITH ALL OTHER TRADES. IN CASE OF DISCREPANCIES OR ANY POTENTIAL CONFLICTS, INFORM THE ARCHITECT AND ENGINEER IN WRITING PRIOR TO

ALL EXISTING EQUIPMENT, DUCTWORK AND AIR DISTRIBUTION DEVICES, WHICH ARE TO REMAIN, SHALL BE CLEANED AND REFURBISHED TO ORIGINAL WORKING

C. ALL WORK TO BE DEMOLISHED OR REMOVED SHALL NOT BE RE-INSTALLED UNLESS NOTED OTHERWISE.

KEY NOTES

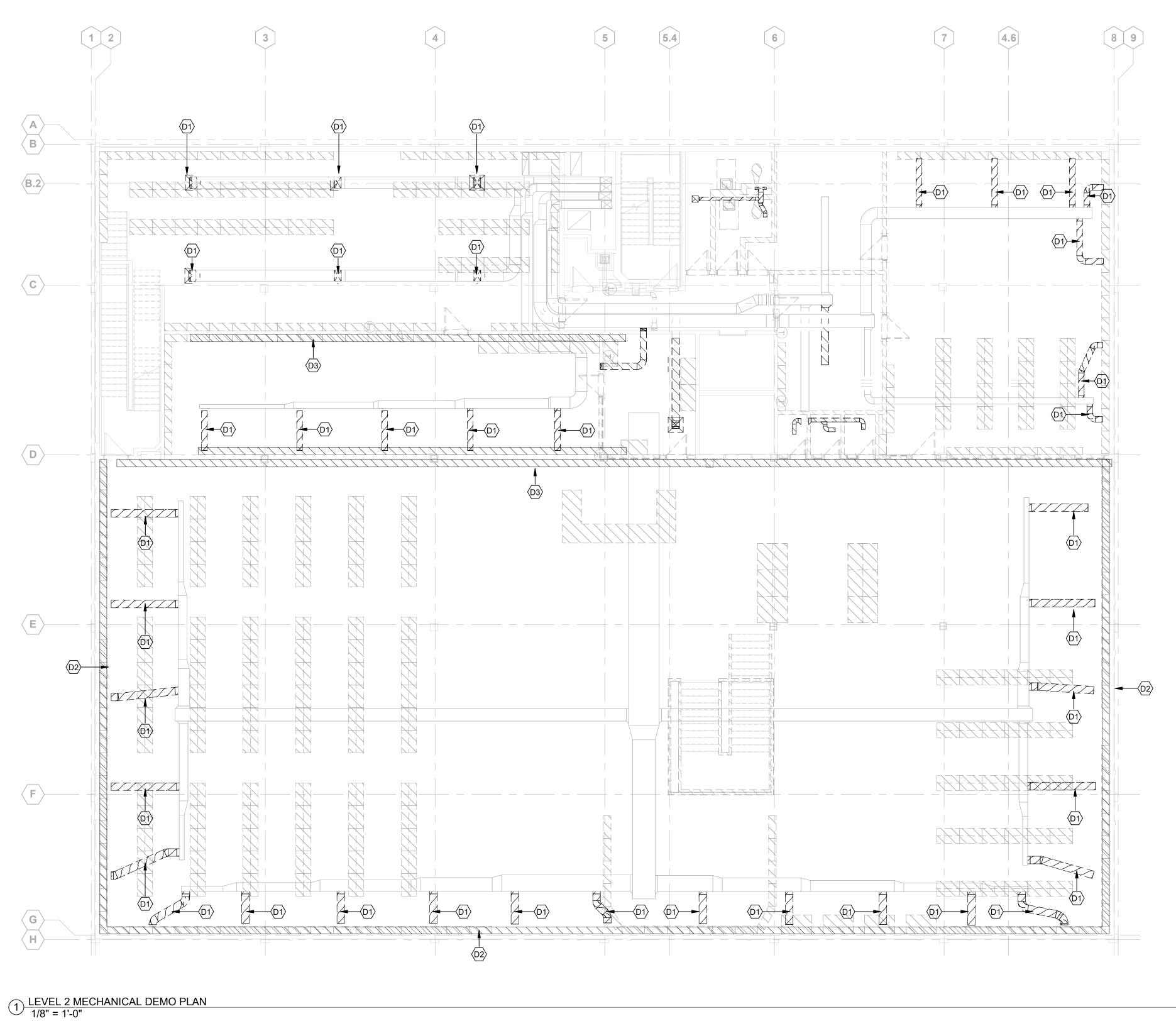
D1 DEMO EXISTING SUPPLY BRANCH BACK TO MAIN AND CAP.

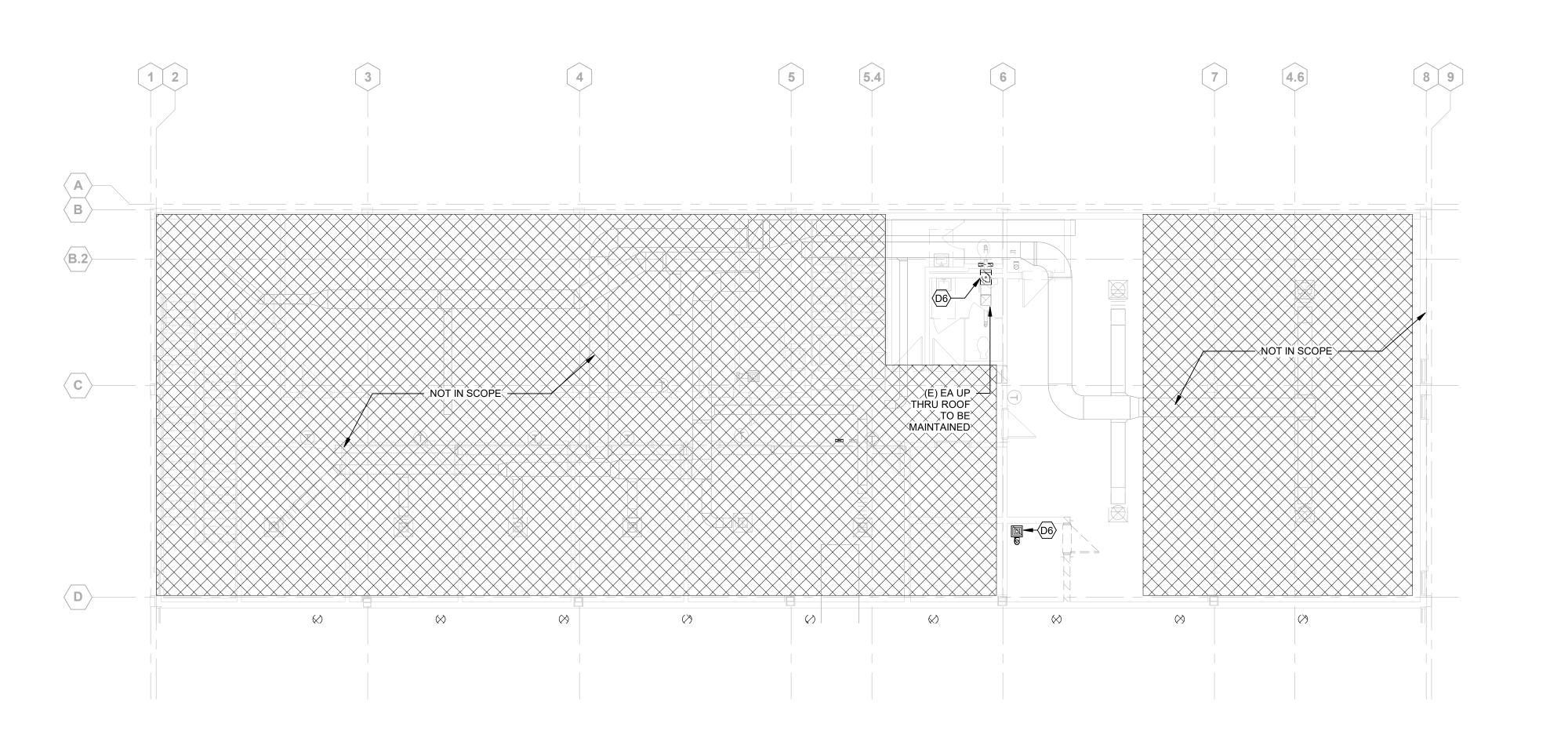
D2 DEMO EXISTING LINEAR SLOT SUPPLY DIFFUSER. D3 DEMO EXISTING LINEAR SLOT RETURN GRILLE.



NAC NO 161-23025 DRAWN LB/CS CHECKED SP DATE 2/28/2025

> MECHANICAL DEMO PLAN -SECOND AND THIRD FLOOR





2 LEVEL 3 MECHANICAL DEMO PLAN 1/8" = 1'-0"

6/4/2025 9:03:40 AM Autodesk Docs://161-23025 LADPW LAC Huntington Library Renovation/2023-03451 LAC HP Library - Mechanical & Plumbing.rvt



NAC NO 161-23025

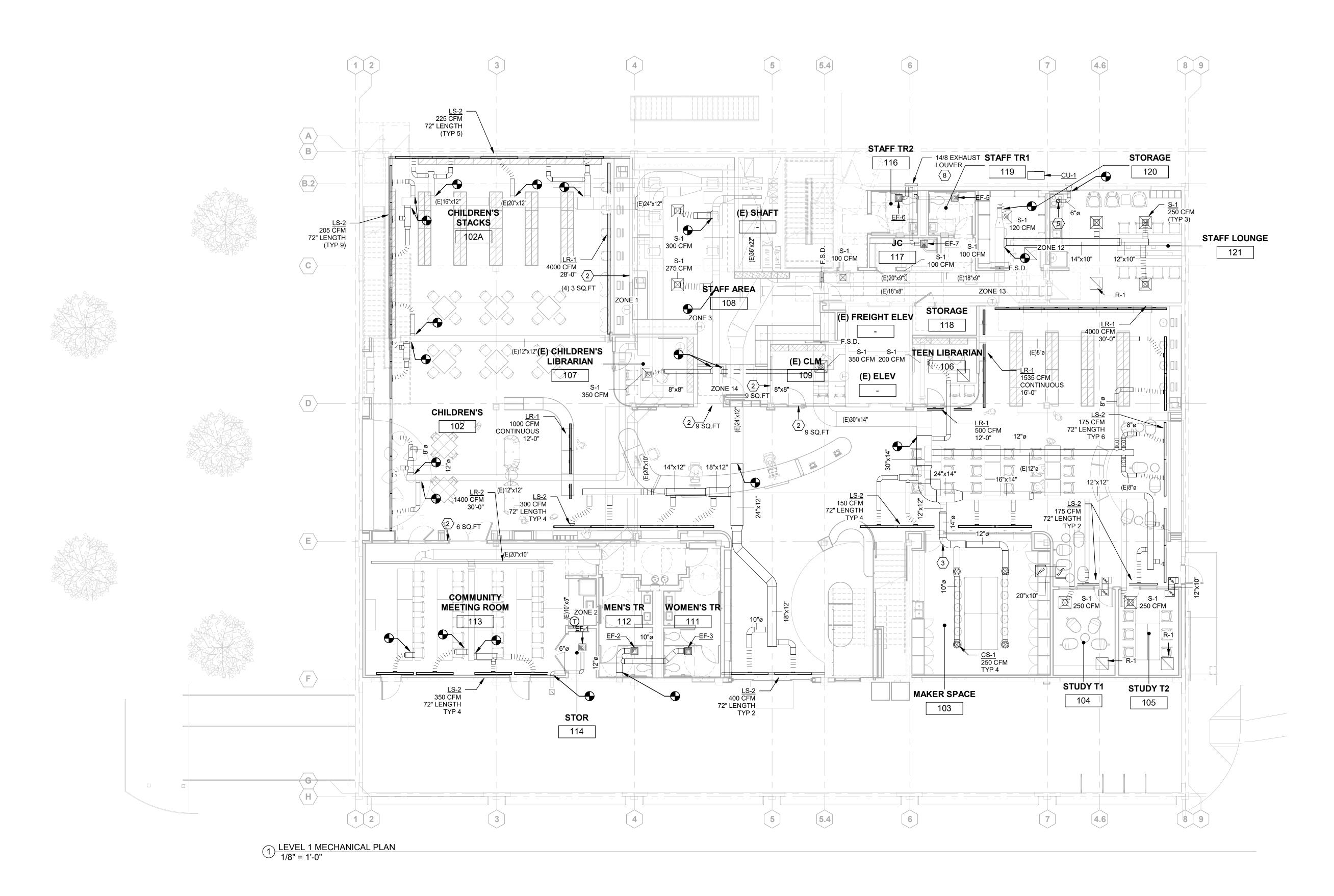
DRAWN LB/CS

CHECKED SP

DATE 2/28/2025

MECHANICAL PLAN - BASEMENT AND FIRST FLOOR

M3.0



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GENERAL NOTES

- A. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS, DETERMINING EXTENT OF DEMOLITION, AND COORDINATE WITH ALL OTHER TRADES. IN CASE OF DISCREPANCIES OR ANY POTENTIAL CONFLICTS, INFORM THE ARCHITECT AND ENGINEER IN WRITING PRIOR TO START OF WORK.
- B. ALL EXISTING EQUIPMENT, DUCTWORK AND AIR DISTRIBUTION DEVICES, WHICH ARE TO REMAIN, SHALL BE CLEANED AND REFURBISHED TO ORIGINAL WORKING CONDITION.
- C. ALL WORK TO BE DEMOLISHED OR REMOVED SHALL NOT BE RE-INSTALLED UNLESS NOTED OTHERWISE.
- D. MAINTAIN ALL ABOVE-CEILING WALL OPENINGS TO MAINTAIN EXISTING RETURN AIR PLENUM DESIGN. IF OPENINGS CONFLICT WITH RENOVATION LAYOUT, PROVIDE NEW OPENING TO MAINTAIN CONSISTENT
- E. ALL NEW MATERIALS EXPOSED WITHIN DUCTS OR PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX NOT TO EXCEED 25 AND A SMOKE-DEVELOPED INDEX NOT TO EXCEED 50, WHERE TESTED AS A COMPOSITE PRODUCT IN ACCORDANCE WITH ASTM E84 OR UL 723.
- PRESERVE EXISTING THERMOSTAT LOCATIONS AS MUCH AS POSSIBLE. IF LOCATION WILL BE AFFECTED BY CONSTRUCTION, PRESERVE AND REMAIN CONNECTED TO BE RELOCATED TO SAME LOCATION.

KEY NOTES

- 2 MAINTAIN OPENING(S) IN PARTITION WALL ABOVE CEILING FOR RETURN AIR. TOTAL FREE AREA OF OPENING(S) INDICATED ON PLANS.
- 3 DUCTWORK IN MAKER SPACE TO BE EXPOSED GALVANIZED SPIRAL ROUND WITH PAINT GRIP. CONSULT ARCHITECT FOR FINISH COLOR.
- 5 CONNECT 6" EXHAUST DUCT TO COLLAR ON DOMESTIC RANGE HOOD AND PROVIDE BACKDRAFT DAMPER. EXHAUST RATE WHILE HOOD IS ON TO BE 100 CFM
- 8 NEW EXHAUST LOUVER TO BE LOCATED AT LEAST 10'-0"
 ABOVE GROUND.

GENERAL NOTES

START OF WORK.

CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS, DETERMINING EXTENT OF DEMOLITION,

AND COORDINATE WITH ALL OTHER TRADES. IN CASE OF DISCREPANCIES OR ANY POTENTIAL CONFLICTS, INFORM THE ARCHITECT AND ENGINEER IN WRITING PRIOR TO

ALL EXISTING EQUIPMENT, DUCTWORK AND AIR DISTRIBUTION DEVICES, WHICH ARE TO REMAIN, SHALL

BE CLEANED AND REFURBISHED TO ORIGINAL WORKING

ALL WORK TO BE DEMOLISHED OR REMOVED SHALL NOT BE RE-INSTALLED UNLESS NOTED OTHERWISE.

MAINTAIN ALL ABOVE-CEILING WALL OPENINGS TO MAINTAIN EXISTING RETURN AIR PLENUM DESIGN. IF

OPENINGS CONFLICT WITH RENOVATION LAYOUT,

ALL NEW MATERIALS EXPOSED WITHIN DUCTS OR PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX NOT TO EXCEED 25 AND A SMOKE-DEVELOPED INDEX NOT TO EXCEED 50, WHERE TESTED AS A COMPOSITE PRODUCT IN ACCORDANCE

PRESERVE EXISTING THERMOSTAT LOCATIONS AS MUCH AS POSSIBLE. IF LOCATION WILL BE AFFECTED BY

CONSTRUCTION, PRESERVE AND REMAIN CONNECTED

KEY NOTES

4 ROUTE REFRIGERANT LINES DOWN THROUGH EXTERIOR WALL WITH PIPE SLEEVE DOWN TO CONDENSING UNIT AT

CONDENSATE TO RISE VERTICALLY FROM PUMP DISCHARGE TO A POINT WHERE IT IS POSSIBLE TO

PLUMBING PLANS FOR CONDENSATE ROUTING. INTERLOCK CONDENSATE PUMP WITH FAN COIL UNIT. 9 CONNECT TO EXISTING EXHAUST DUCT UP THRU ROOF.

CONNECT TO A GRAVITY CONDENSATE DRAIN LINE. SEE

RELOCATE EXISTING SUPPLY GRILLE OUTSIDE OF MCR

MAINTAIN OPENING(S) IN PARTITION WALL ABOVE CEILING FOR RETURN AIR. TOTAL FREE AREA OF OPENING(S)

TO BE RELOCATED TO SAME LOCATION.

WITH ASTM E84 OR UL 723.

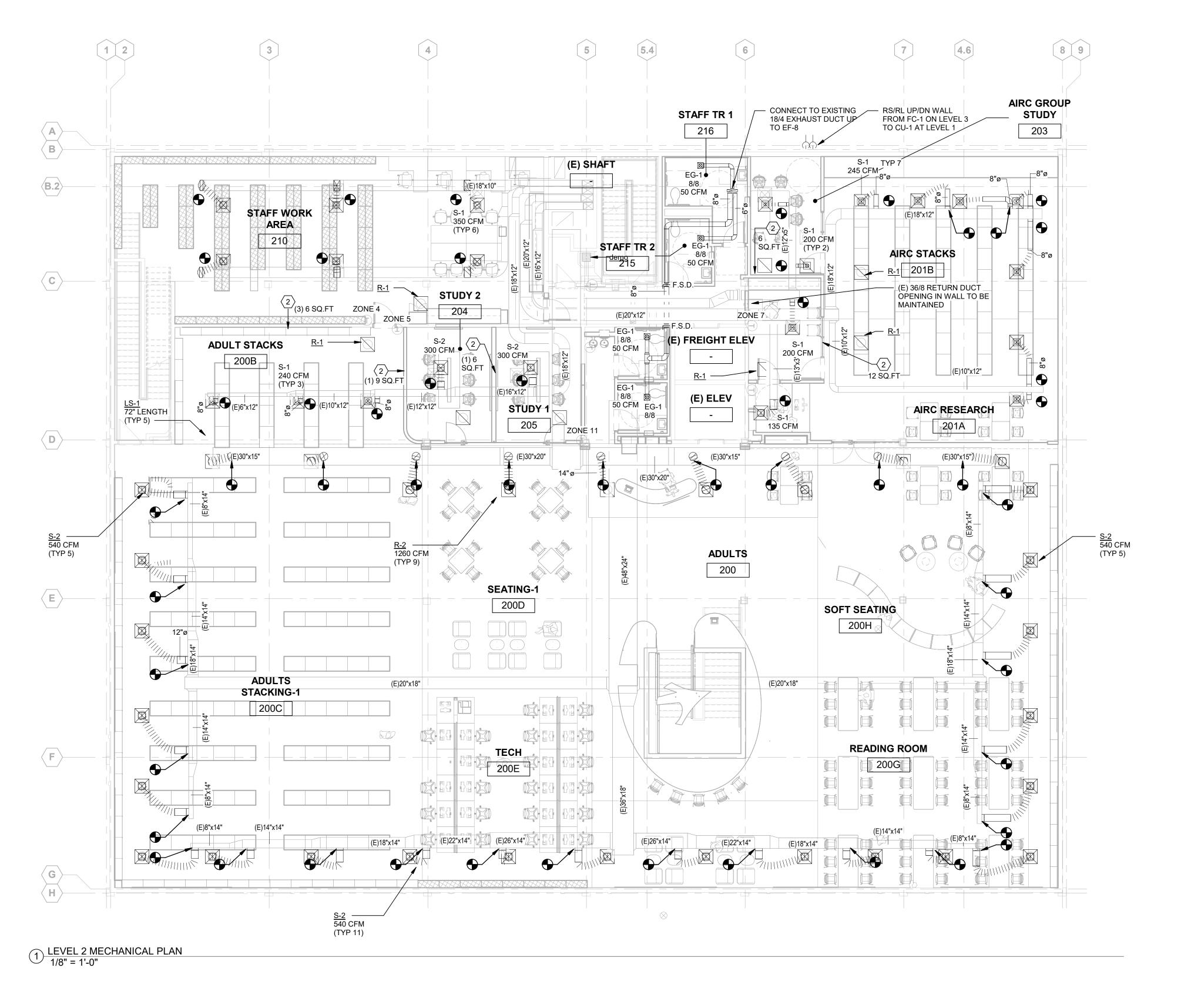
INDICATED ON PLANS.

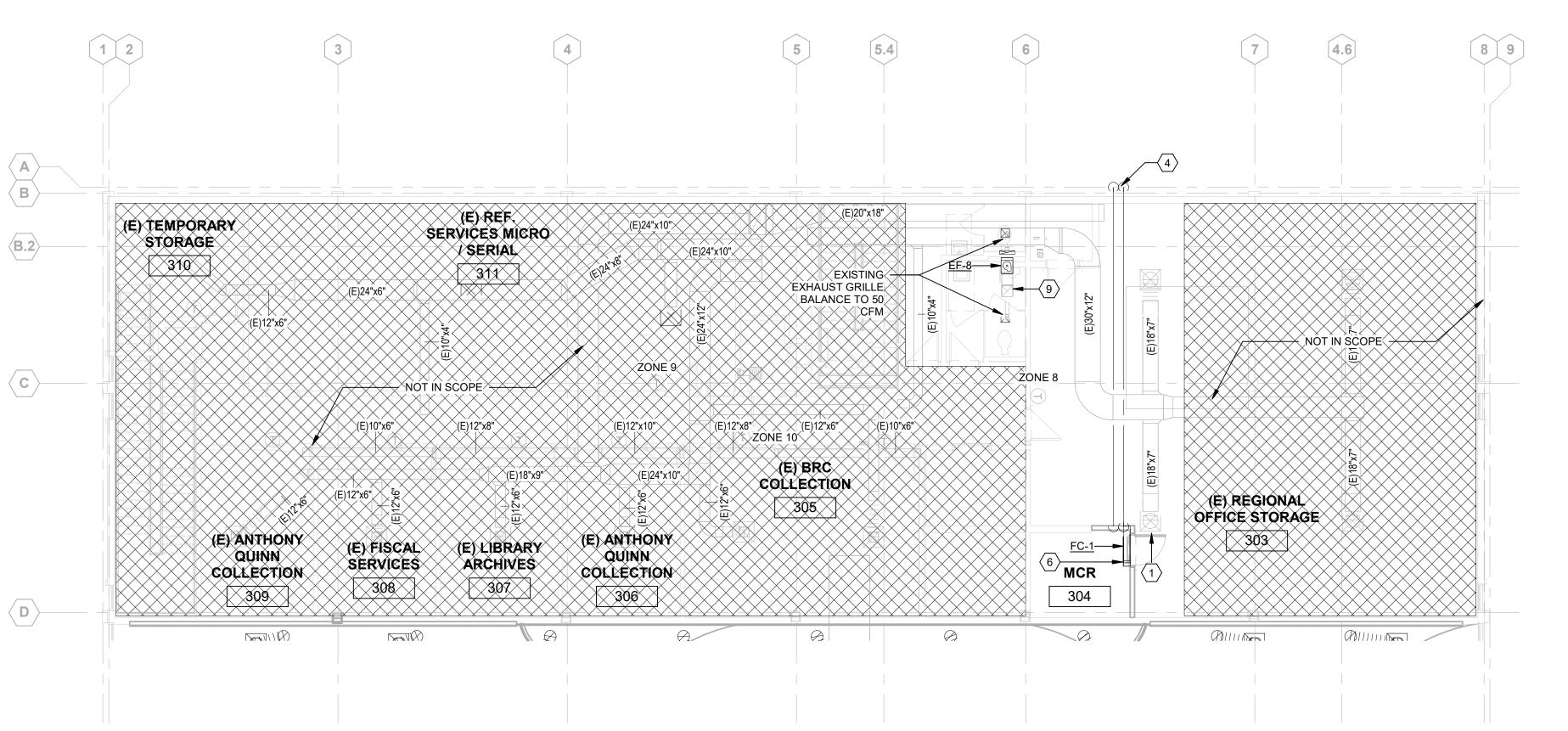
PROVIDE NEW OPENING TO MAINTAIN CONSISTENT



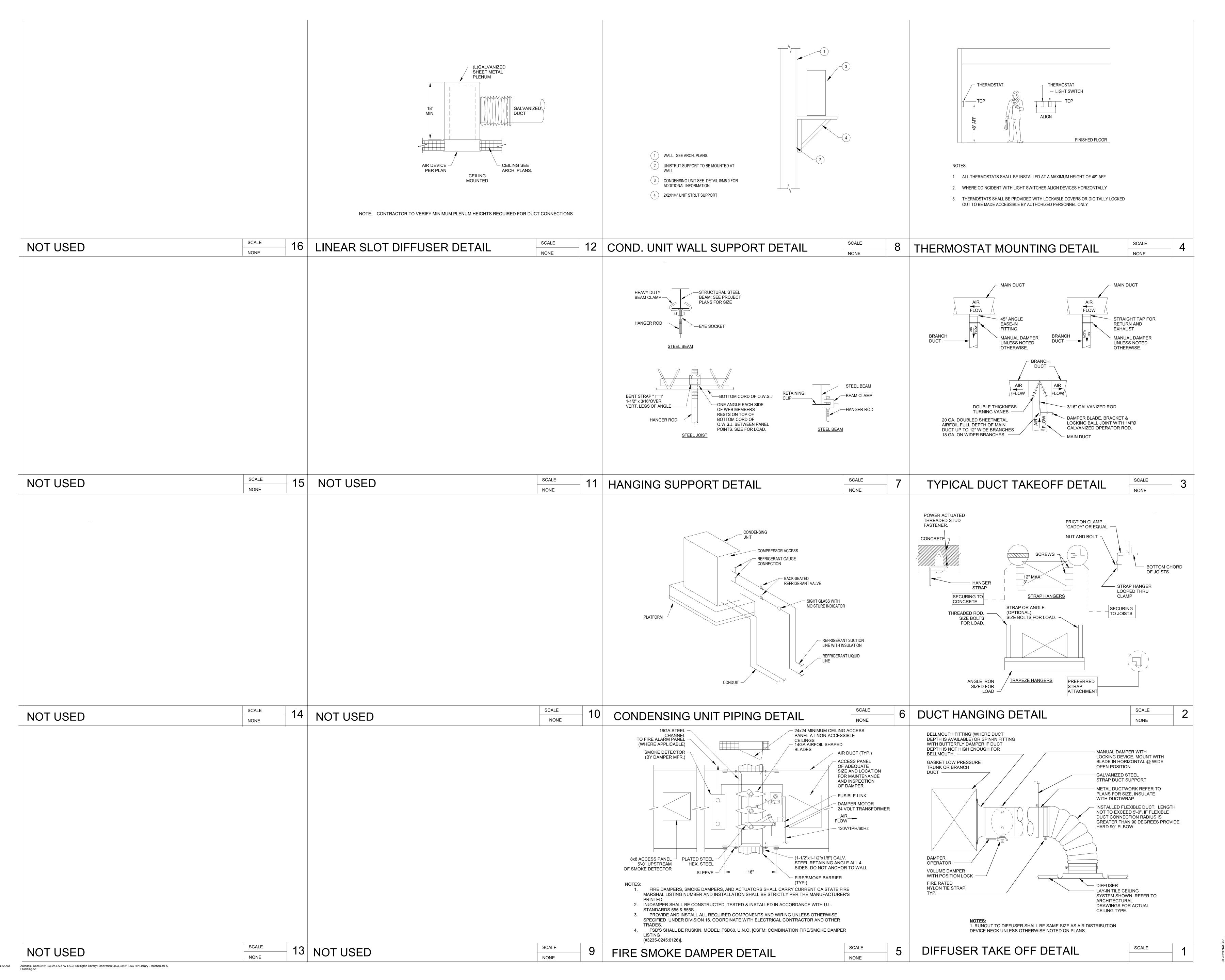
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MECHANICAL PLAN - SECOND AND THIRD FLOOR





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FRUCTION DOCUMENTS

salasobrien.com 949.753.1553
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MECHANICAL DETAILS

M5.01



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PLUMBING COVER

PLUMBING LEGEND ABBR. SYMBOL DESCRIPTION DESCRIPTION ABV --- SS OR W $-\cdot$ SANITARY SEWER / WASTE PIPE **ABOVE** VENT PIPE ABOVE FINISHED FLOOR -----ABOVE FINISHED GRADE COLD WATER PIPE ACCESS PANEL HOT WATER PIPE CONDENSATE DRAIN PIPE TRAP PRIMER PIPE CLEANOUT DRINKING FOUNTAIN ----FLOOR CLEAN OUT WALL CLEAN OUT **EXISTING EXPANSION TANK** FLEXIBLE CONNECTION FLOOR CLEANOUT SHUT OFF VALVE \longrightarrow FLOOR DRAIN GAS COCK FLOOR SINK CHECK VALVE FIXTURE UNIT BALL VALVE GARBAGE DISPOSAL PRESSURE REDUCING VALVE _____PTR______ HOSE BIBB PRESSURE AND TEMPERATURE RELIEF VALVE **INVERT ELEVATION** UNION LAVATORY DIELECTRIC UNION MIXING VALVE CAPPED PIPE NOT IN CONTRACT CONTINUED OR CONTINUATION NOT TO SCALE TRAP PRIMER POINT OF CONNECTION WATER HAMMER ARRESTOR SINK REDUCED PRESSURE BACKFLOW PREVENTER SOV SHUT OFF VALVE PIPE DOWN OR DROP ——————— SERVICE SINK PIPE UP OR RISE ____ TRAP PRIMER POINT OF CONNECTION / DISCONNECT TYP AREA DRAIN OR FLOOR DRAIN VTR VENT THROUGH ROOF FLOOR SINK OR ROOF RECEPTOR WATER CLOSET TAG-E TAGS WITH DASH 'E' INDICATE REFERENCE IS EXISTING WALL CLEANOUT TAGS WITH UNDERLINE INDICATE SCHEDULED FIXTURE WH WATER HEATER WATER HAMMER ARRESTOR WM WATER METER UNO **UNLESS NOTED OTHERWISE** YARD BOX YCO

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YARD CLEANOUT

PLUMBING GENERAL NOTES:

- THE SYMBOLS AND FIXTURE SCHEDULES ARE FOR CONVENIENCE TO THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY THAT FIXTURES SUPPLIED ARE APPROVED PER STATE AND LOCAL AUTHORITY HAVING JURISDICTION. ALL FIXTURES SHALL CONFORM TO FEDERAL ACT S.3874
- FIXTURE SCHEDULE DESCRIPTIONS SHALL NOT BE CONSIDERED COMPLETE BUT ARE GIVEN AS AN AID TO THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE DESCRIPTIONS OF SCHEDULED FIXTURES AND SPECIFICATION BEFORE ORDERING.
- REFER TO THE PLUMBING FIXTURE SCHEDULE FOR ROUGH-IN CONNECTION SIZES. THESE VALUES ARE MINIMUM; LARGER CONNECTIONS MAY RESULT BASED ON THE DIFFERENT MANUFACTURER'S RECOMMENDATIONS.
- CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS OF ALL EXISTING UTILITY PIPES PRIOR TO

START OF WORK. ANY NECESSARY ADJUSTMENTS TO THE PLUMBING LAYOUT SHALL BE DONE AT

- CONTRACTOR SHALL NOTIFY ALL LOCAL UTILITY COMPANIES INCLUDING BUT NOT LIMITED TO THE GAS COMPANY, ELECTRIC COMPANY, TELEPHONE COMPANY, AND THE WATER DEPARTMENT, ABOUT THE EXTENT OF PLUMBING WORK. ALL EXCAVATION WORK SHALL BE APPROVED BY ALL
- UTILITY COMPANIES TO ASSURE PREVENTION OF INTERRUPTION OF EXISTING SERVICES PRIOR TO START OF WORK. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL
- EACH CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES CAUSED TO WALLS, FLOORS, CEILINGS

CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.

- DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL LAYOUT OF PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. VERIFY ALL CLEARANCES REQUIRED PRIOR TO INSTALLATION TO PROVIDE PROPER
- 9. ALL PIPING SHALL BE ROUTED AS HIGH AS POSSIBLE IN EXPOSED LOCATIONS.
- 10. COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION TO AVOID INTERFENCE WITH OTHER TRADES. DO NOT FABRICATE PRIOR TO VERIFYING CLEARANCES FOR ALL TRADES. ANY CONFLICTS SHALL BE COORDINATED WITH THE ARCHITECT/ENGINEER PRIOR TO FABRICATION OR EQUIPMENT ORDERS.
- 11. PLUMBING CONTRACTOR SHALL CUT AND PATCH EXISTING AS REQUIRED FOR NEW WORK UNLESS NOTED OTHERWISE. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 12. IN AREAS WITH HARD LID CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO SHUT OFF VALVES, ETC. COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR TO BIDDING.
- 13. PROVIDE SHUT OFF VALVES AT THE FOLLOWING LOCATIONS: WATER MAIN SHUT-OFF AT ENTRY TO TENANT DEMISE.
 - VALVE WITH HOSE CONNECTION ON DOWNSTREAM SIDE OF THE MAIN
 - SHUT-OFF VALVE ON EACH SUPPLY TO EACH FIXTURE AND EQUIPMENT ITEM NOT PROVIDED WITH CONTROL STOP OR OTHER AUXILIARY SHUT-OFF VALVE. OPERATORS ON TOP OR ARE HORIZONTAL AND SO THAT VALVES ARE EASILY ACCESSIBLE FOR OPERATION, SERVICE, REMOVAL AND REPLACEMENT.
- 14. ALL VENT TERMINATIONS AT ROOF SHALL BE AT LEAST 10 FEET AWAY FROM OUTSIDE AIR INTAKES, OPERABLE WINDOWS, AND THE LIKE.
- 15. SEAL ALL FLOOR, WALL, AND ROOF PENETRATIONS AIRTIGHT WHERE PIPING, PENETRATE. PENETRATIONS THROUGH EXTERIOR WALLS AND ROOF SHALL BE SEALED AIRTIGHT WITH WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER FOR OUTDOOR USE.
- ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS. 17. PROVIDE ALL FIXTURE COMPONENTS AS INDICATED ON DRAWINGS. PROVIDE ADDITIONAL COMPONENTS AS PER MANUFACTURER'S RECOMMENDATIONS FOR PROPER OPERATION OF THE
- 18. PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL EXTEND

16. CAULK ALL PIPE PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION, FLOOR, AND

- MINIMUM 6" BEYOND ALL SIDES OF EQUIPMENT. 19. MAINTAIN MINIMUM 3'-6" CLEARANCE IN FRONT OF ALL FIRE RISERS, ELECTRICAL PANELS, MOTOR
- STARTERS, SWITCHES, AND DISCONNECTS. 20. DO NOT SUPPORT EQUIPMENT, PIPING FROM METAL DECKING OR OTHER NON-STRUCTURAL BUILDING ELEMENTS. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE
- APPROVED IN ACCORDANCE WITH SPECIFICATIONS. 21. ALL FIRE WATER SYSTEMS SHALL BE APPROVED BY THE FIRE DEPARTMENT.
- 22. EXISTING BUILDING SEWERS AND BUILDING DRAINS MAY BE USED IF SUCH SEWERS HAVE BEEN
- PROPERLY MAINTAINED AND FOUND UPON EXAMINATION AND TEST PERFORMED BY THE OWNER OR OWNER'S DESIGNATED AGENT THAT THEY ARE IN WORKING CONDITION AND FREE FROM ANY
- 23. ALL REQUIRED CLEANOUTS SHALL BE INSTALLED AS PER SEC. 707.0 & SEC.719.0 OF THE COUNTY OF LOS ANGELES PLUMBING CODE.
- 24. WATER SUPPLY AND DRAIN PIPES UNDER ACCESSIBLE LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE BE CONFIGURED TO PROTECT CONTACT. PROTECTORS, INSULATORS, OR BOTH SHALL COMPLY WITH ASME A112.18.9. SEC 403.3.
- 25. POTABLE WATER SUPPLY TRAP SEAL PRIMER VALVES SHALL COMPLY WITH ASSE 101.8. DRAINAGE AND ELECTRONIC DESIGN TYPE TRAP SEAL PRIMER DEVISES SHALL COMPLY WITH ASSE 1044. SEC.
- 26. NEW OR REPAIRED POTABLE WATER SYSTEMS SHALL BE DISINFECTED PRIOR TO USE ACCORDING TO SECTION 609.9 (1-3) OF THE PLUMBING CODE. CONTRACTOR SHALL PROVIDE A SIGNED WRITTEN DECLARATION TO THE INSPECTOR AT TIME OF INSPECTION THAT POTABLE WATER SYSTEM HAS BEEN DISINFECTED PER SECTION 609.9.
- 27. PUBLIC LAVATORIES SHALL HAVE A WATER TEMPERING DEVICE THAT COMPLIES WITH ASSE 1070, ASME 112.1070 OR CSA B125.3. WATER HEATER THERMOSTAT SHALL NOT BE CONSIDREED A COTNROL TO MEET THIS PROVISION. SEC. 407.3.
- 28. INSULATION OF DOMESTIC HOT WATER PIPING SHALL BE 1" THICK FOR PIPES LESS THAN 1", 1.5" THICK FOR PIPES 1" TO 1.5", AND 2" THICK FOR PIPES 2" OR LARGER AS INDICATED IN SECTIONS 150.0(i)2 AND 120.3(c) THE 2022 ENERGY EFFICIENCY STANDARDS AND SECTION 609.12 IN THE 2023 COUNTY OF LOS ANGELES PLUMBING CODE.

DEMOLITION NOTES:

- SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.
- NOT ALL EXISTING PIPING IS SHOWN. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. NOTIFY ENGINEER OF ANY CONFLICTS WITH NEW WORK.
- FIELD VERIFY THE AVAILABLE CLEARANCES FOR PIPING BEFORE FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CUTTING, REMOVAL AND PATCHING OF ROOFS, WALLS, AND FLOORS ASSOCIATED WITH WORK BY ALL CONTRACTORS. CONTRACTORS SHALL NOTIFY THE GC OF AFFECTED AREAS PRIOR TO BIDDING.
- WHERE EXISTING MECHANICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT. PIPING IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS. OR REWORK EXISTING MECHANICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT,
- MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR TIE IN AND SWITCHOVER. DRAIN SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER BEFORE PARTIALLY OR COMPLETELY DRAINING SYSTEM. MAKE CHANGEOVER TO NEW SYSTEMS WITH MINIMUM OUTAGE.
- UNLESS SPECIFICALLY SHOWN ON DRAWINGS, NO STRUCTURAL MEMBER SHALL BE CUT, DRILLED OR NOTCHED WITHOUT PRIOR AUTHORIZATION BY STRUCTURAL ENGINEER.

APPLICABLE CODES

- 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC) 2022 CALIFORNIA BUILDING CODE (CBC) 2022 CALIFORNIA ELECTRICAL CODE (CEC)
- 2022 CALIFORNIA MECHANICAL CODE (CMC) 2022 CALIFORNIA PLUMBING CODE (CPC)
- 2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR 2022 CALIFORNIA FIRE CODE (CFC)
- 2022 CALIFORNIA EXISTING BUILDING CODE (CEBC) 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGreen)
- 2022 CALIFORNIA REFERENCED STANDARDS CODE 2023 COUNTY OF LOS ANGELES BUILDING CODE (TITLE 26)

PLUMBING DETAILS

- 2023 COUNTY OF LOS ANGELES ELECTRICAL CODE (TITLE 27) 2023 COUNTY OF LOS ANGELES PLUMBING CODE (TITLE 28)
- 2023 COUNTY OF LOS ANGELES MECHANICAL CODE (TITLE 29) 2023 COUNTY OF LOS ANGELES GREEN BUILDING STANDARDS CODE (TITLE 31)

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P4.01	PLUMBING ENLARGED PLANS
P5.01	PLUMBING RISERS

HYDRAULIC WATER CALCULA	ATIONS
WATER PRESSURE:	
WATER PRESSURE AVAILABLE AT THE BUILDING MAXIMUM RESIDUAL PRESSURE MINIMUM RESIDUAL PRESSURE	= 50 PSI = 48 PSI
BUILDING DEMAND:	
TOTAL DEMAND 86.5 FIXTURE UNITS	<u>= 40 GPM</u>
PRESSURE LOSSES:	
BUILDING STATIC 30' X 0.433 RESIDUAL REQUIRED (FV) (E) SITE METER (4")	= 13 PSI = 25 PSI = 3.8 PSI
TOTAL LOSSES	= <u>41.8 PSI</u>
PRESSURE AVAILABLE FOR FRICTION LOSS:	
PRESSURE AVAILABLE FOR LOSSES TOTAL DEVELOPED LENGTH 140 X 1.25 (FITTINGS) PSI LOSSES PER 100FT.	= 6.2 PSI = 175 FT.
6.2 PSI X 100' / 200	= 3.15 PSI/100'
PIPE SIZED ON 3 PSI/100' PIPE FRICTION LOSS MAX <u>5</u> FT/SEC. VELOCITY - HOT WATER MAX <u>8</u> FT/SEC. VELOCITY - COLD WATER	

				FIXTURE UNITS REG	FIXTURE UNITS TOTAL			
SYMBOL	DESCRIPTION	QUANTITY	CW	HW	ي. SAN	CW	HW	DFU
WC-E	WATER CLOSET (VALVE)	10	5.0		4.0	50.0		40.0
L-E	LAVATORY	10	1.0	1.0	1.0	10.0	10.0	10.0
UR-E	URINAL	2	4.0	4.0	2.0	8.0	8.0	4.0
SK-E	SINK	2	1.5	1.5	2.0	3.0	3.0	4.0
SS-E	SERVICE SINK	3	3.0	3.0	3.0	9.0	9.0	9.0
DF-E	DRINKING FOUNTAIN	2	.5		1.0	1.0		
TOTAL							30.0	67.0

NEW FIXTURE UNIT LOADS									
SYMBOL	DESCRIPTION		F	IXTURE UNITS RE	Q.	FIXTURE UNITS TOTAL			
OTWIDOL	DEGORII TION	QUANTITY	CW	HW	SAN	CW	HW	DFU	
<u>WC-1</u>	WATER CLOSET (VALVE)	11	5.0		4.0	55.0		44.0	
<u>L-1</u>	LAVATORY	12	1.0	1.0	1.0	12.0	12.0	12.0	
<u>UR-1</u>	URINAL	4	4.0	4.0	2.0	16.0		8.0	
<u>S-1</u>	SINK	3	1.5	1.5	2.0	4.5	4.5	6.0	
<u>MS-1</u>	SERVICE SINK	1	3.0	3.0	3.0	3.0	3.0	3.0	
<u>DF-1</u>	DRINKING FOUNTAIN	2	.5		1.0	1.0		2.0	
TOTAL							19.5	75.0	

	DOMESTIC COLD WATER SIZING											
FRICTION	FRICTION LOSS 3.0 PSI PER 100 FT AVG, AT 8 FPS MAX. VELOCITY											
		WSFU										
PIPE SIZE	FLUSH TANK	FLUSH VALVE	GPM	FPS								
3/4"	4	-	4	3.4								
1"	12	-	9	4.1								
1-1/4"	24	-	17	4.8								
1-1/2"	46	10	31	5.4								
2"	155	63	66	6.6								
2-1/2"	380	245	115	7.7								
3"	665	596	165	8.0								

DOMESTIC HOT WATER SIZING										
FRICTION LOSS 3.0 PSI PER 100 FT AVG, AT 5 FPS MAX. VELOCITY										
	WSFU									
PIPE SIZE	FLUSH TANK	FLUSH VALVE	GPM	FPS						
3/4"	4	4 -		3.4						
1"	12 -		11	4.1						
1-1/4"	24	-	19	4.8						
1-1/2"	46	-	27	5.0						
2"	119	-	48	5.0						
2-1/2"	245	-	100	5.0						

SYMBOL	FIXTURE	CW	HW	IPE SIZE V	S	REMARKS
	WATER OLOGET					WATER CLOSET: AMERICAN STANDARD (3351.528), ACCESSIBLE, ELONGATED WALL FLUSH VALVE, AMERICAN STANDARD (5901.100), ELONGATED OPEN FRONT SEAT.
<u>WC-1</u>	WATER CLOSET FLUSH VALVE (ADA)	1-1/2"		2"	4"	FLUSH VALVE: SLOAN (CROWN 111 SMO-1.28), SENSOR ACTIVATED, BATTERY POWI 1.28GPF, POLISHED CHROME, 11-1/2" ROUGH-IN, 1-1/2" VACUUM BREAKER, 1" IPS SCREWDRIVER BACK-CHECK ANGLE STOP, ADA COMPLIANT.
	LIDINIAI					URINAL: AMERICAN STANDARD (MAYBROOK), WALL MOUNT, VITREOUS CHINA, FLUSIVALVE, 0.125 GPM, EVERCLEAN SURFACE, TOP SPUD.
<u>UR-1</u>	URINAL FLUSH VALVE (ADA)	1-1/2"		2"	3"	FLUSH VALVE: SLOAN (CROWN 186 SMO-0.125), SENSOR ACTIVATED, BATTERY POV 0.125 GPF, POLISHED CHROME, 11-1/2" ROUGH-IN, VACUUM BREAKER, 1" IPS SCREW BACK-CHECK ANGLE STOP, ADA COMPLIANT.
1.4	LAVATORY	1/2"	4/01	4.4/01	2"	LAVATORY: KOHLER (K-2084), WALL MOUNTED, WHITE PORCELAIN, 20" x 18", WITH OVERFLOW, ADA COMPLIANT. PROVIDE WITH INSULATION KIT-PLUMBEREX (PRO-EX
<u>L-1</u>	(ADA)	1/2	1/2"	1-1/2"	2	TRIM: CHICAGO FAUCETS (E-80-A11A-17ABCPT) DECK MOUNTED, BATTERY POWER, HOLE, SENSOR ACTIVATED, POLISHED CHROME, 0.2 GALLON PER CYCLE.
L-2	LAVATORY	1/2"	1/2"	1-1/2"	2"	LAVATORY: KOHLER (K-5400), COUNTERTOP, WHITE PORCELAIN, 18" x 14", WITH OVE ADA COMPLIANT. PROVIDE WITH INSULATION KIT-PLUMBEREX (PRO-EXTREME).
<u> </u>	(ADA)	172	1/2	1 1/2		TRIM: CHICAGO FAUCETS (E-80-A11A-17ABCPT) DECK MOUNTED, BATTERY POWER, SHOLE, SENSOR ACTIVATED, POLISHED CHROME, 0.2 GALLON PER CYCLE.
<u>DF-1</u>	DRINKING FOUNTAIN	1/2"	1/2"	1-1/2"	2"	ELKAY (LZWS-LRPMB28K) BI-LEVEL FOUNTAIN, MECHANICAL BUBBLERS, FILTERED REFRIGERATED, 8.0GPH, LAMINAR FLOW, BOTTLE FILLER WITH VISUAL MONITOR, AC COMPLIANT.
						POWER REQUIREMENTS: 115V/60Hz
<u>S-1</u>	KITCHEN SINK AND FAUCET	0/4	3/4"			SINK: KOHLER (K-3996-4). UNDERMOUNT, DOUBLE COMPARTMENT, 18GA STAINLESS 33" x 22" x 6", CENTER DRAIN, ADA COMPLIANT. PROVIDE WITH INSULATION KIT-PLUM (PRO-EXTREME).
		3/4"		1-1/2"	2"	TRIM: CHICAGO (436-ABCP) DECK MOUNTED, SINGLE HOLE, LEVEL HANDLE, POLISHE CHROME, 1.5 GPM.
<u>S-2</u>	COMMUNITY SPACE SINK	3/4"	3/4"	1-1/2"	2"	SINK: KOHLER (K-32027-1). UNDERMOUNT, SINGLE COMPARTMENT, 18GA STAINLESS 15" x 15" x 6", CENTER DRAIN, ADA COMPLIANT. PROVIDE WITH INSULATION KIT-PLUM (PRO-EXTREME).
	617.62 61111.					TRIM: CHICAGO (436-ABCP) DECK MOUNTED, SINGLE HOLE, LEVEL HANDLE, POLISHE CHROME, 1.5 GPM.
	GARBAGE					GARBAGE DISPOSAL: INSINKERATOR (EVOLUTION), COMPACT DISPOSER.
<u>GD-1</u>	DISPOSAL					POWER REQUIREMENTS: 3/4 HP, 120V, 60HZ
<u>EWH-1</u>	WATER HEATER					POINT OF USE WATER HEATER: EEMAX (SPEX 100) LED DISPLAY, 0.2 GPM ACTIVATED COMPRESSION FITTING, 30 PSI MIN. WORKING PRESSURE, ADA COMPLIANT, REPLAC CARTRIDGE, UL LISTED. PROVIDE WITH SHUT OFF VALVES.
						POWER REQUIREMENTS: 277V, 1PH, 10kW.
EWH-2	WATER HEATER					POINT OF USE WATER HEATER: EEMAX (SPEX 4277TS), 0.2 GPM ACTIVATED, 3/8" COMPRESSION FITTING, 35 PSI MIN. WORKING PRESSURE, ADA COMPLIANT, REPLAC CARTRIDGE, UL LISTED. PROVIDE WITH SHUT OFF VALVES.
						POWER REQUIREMENTS: 277V, 1PH, 4.1kW.
SS-1	UTILITY	3/4"	3/4"	1-1/2"	2"	MOP BASIN: KOHLER (K-6710) FLOOR MOUNTED, CORNER INSTALLATION, ENAMELED IRON, 28" x 28"W.
<u>55°1</u>	SINK AND FAUCET	0/4	J/ +	1-1/2		FAUCET: CHICAGO (897-CP) WALL MOUNTED, 8" CENTERS, CHROME PLATED, LEVER HANDLE, 1/4 TURN, VACUUM BREAKER SPOUT, VANDAL PROOF.
<u>FD-1</u>	FLOOR DRAIN	1/2"		1-1/2"	2"	MIFAB (F1000-C) CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, 6" ROUND, WEEPI STANDARD HEAVY DUTY, ADJUSTABLE POLISHED STAINLESS STRAINER, VANDAL RESISTANT WITH KEY SCREWS.
<u>FS-1</u>	FLOOR SINK	1/2"		1-1/2"	3"	MIFAB (FS1730-7) CAST IRON FLOOR SINK, 12"x12"x8" DEEP CAST BODY, 3" OUTLET, A RESISTANT PORCELAIN ENAMEL COATED INTERIOR, LOOSE 3/4" GRATE KIT, ANTI-SP DOME STRAINER.
<u>HB-1</u>	HOSE BIBB	3/4"				WOODFORD MODEL B24, WALL BOX, 3/4" MALE HOSE THREAD, ANTI-SIPHON, NONREMOVABLE VACUUM BREAKER.
<u>TP-1</u>	TRAP PRIMER	1/2"				SIOUX CHIEF MODEL NO. 695 SERIES, PRIMEPERFECT AUTOMATIC MECHANICAL TRA

PLUMBING PIPE MATERIAL SCHEDULE										
SERVICE	LOCATION	PIPE MATERIAI	SLOPE							
DOMESTIC _	ABOVE GRADE	ASTM B88 TYPE		NONE						
WATER	BELOW GRADE	ASTM B88 TYPE	"K" HARD DRAWN COPPER WIT	H WROUGHT CO	PPER FITTINGS.			NONE		
WASTE & VENT	ABOVE GRADE	OVE GRADE ASTM A888 CAST IRON PIPE WITH ASTM A888 DWV FITTINGS.								
CONDENSATE	ABOVE GRADE	ASTM B88 TYPE	"K" HARD DRAWN COPPER WIT	H WROUGHT CO	PPER FITTINGS.			1/8" PER 1'		
PER 2022 CALIFORNIA ENERGY CODE TABLE 120.3-A										
FLUID TEMPERATURE				<=1	NOMINAL 1 - < 1.5	PIPE DIAMETER	(INCHES) 4 - < 8	8 <		
		PER °F) TEMPERATURE (°F)		<=1		HICKNESS REQU		0 <		
SPACE HEATING, HOT WATER SYSTEMS(STEAM, STEAM CONDENSATE AND HOT WATER) AND SERVICE HEATING SYSTEMS										
ABOVE 350	0.32	- 0.34	250	4.5	5.0	5.0	5.0	5.0		
251-350	0.29	- 0.31	200	3.0	4.0	4.5	4.5	4.5		
201-250	0.27	- 0.30	150	2.5	2.5	2.5	3.0	3.0		
141-200	141-200 0.25 - 0.29		125	1.5	1.5	2.0	2.0	2.0		
105-140	105-140 0.22 - 0.28		0.22 - 0.28 100 1.0 1.5 2.0 2.0		2.0	2.0				
		SPA	CE COOLING SYSTEMS(CHILLED	WATER, REFRIG	ERANT AND BRIN	E)				
40-60	0.21	- 0.27	75	0.5	0.5	1.0	1.0	1.0		





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PLUMBING SCHEDULES

P0-02

KEYNOTE:

1 REMOVE EXISTING WATER CLOSET/URINAL AND FLUSH VALVE. DEMOLISH EXISTING DOMESTIC WATER, VENT AND WASTE PIPING BACK TO EXISTING MAIN AND CAP.

REMOVE EXISTING LAVATORY/SINK AND FAUCET. DEMOLISH EXISTING DOMESTIC HOT & COLD WATER, VENT AND WASTE PIPING BACK TO EXISTING MAIN AND CAP.

REMOVE EXISTING FLOOR DRAIN AND TRAP PRIMER. DEMOLISH EXISTING TRAP PRIMER LINE, VENT AND WASTE PIPING BACK TO EXISTING MAIN AND CAP.

REMOVE EXISTING SERVICE SINK. DEMOLISH EXISTING DOMESTIC HOT & COLD WATER, VENT AND WASTE PIPING BACK TO EXISTING MAIN AND CAP.

REMOVE EXISTING DRINKING FOUNTAIN. DEMOLISH EXISTING DOMESTIC WATER, VENT AND WASTE PIPING BACK TO EXISTING MAIN AND CAP.

REMOVE EXISTING WATER HEATER. DEMOLISH EXISTING DOMESTIC HOT AND COLD WATER BACK TO EXISTING MAIN AND CAP.

(E)3"CW, (E)1-1/4"HW, (E)3/4" HWR DOWN RISER DOWN UP FROM BASEMENT LEVEL.

REMOVE (E)2"CW , (E)1"HW AND (E)3/4"HWR RISERS UP ABOVE.

FIRE HOSE CABINET EXISTING TO REMAIN.

(10) EXISTING FIXTURE TO REMAIN.

REMOVE EXISTING VENT PIPING BACK TO VENT THROUGH ROOF PENETRATION. PROTECT IN PLACE EXISTING VTR

AND PREPARE FOR RECONNECTION IN REMODEL PHASE.

(12) REMOVE EXISTING FIRE HOSE CABINET, DISCONNECT EXISTING 2"CW AND PREPARE FOR RECONNECTION IN REMODEL PHASE.

S CONSTRUCTION DOCUMENT

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elasobrien.com 949.753.1553 rvine 3825 Research Drive rvine, CA 92618



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PLUMBING DEMO PLAN - BASEMENT AND FIRST FLOOR

P2.01

7/2/2025 3:59:21 PM Autodesk Docs://161-23025 LADPW LAC Huntington Library Renovation/2023-03451 LAC HP Library - Mechanical & Plumbing.rvt

KEYNOTES:

REMOVE EXISTING WATER CLOSET/URINAL AND FLUSH VALVE. DEMOLISH EXISTING DOMESTIC WATER, VENT AND WASTE PIPING BACK TO EXISTING MAIN AND CAP.

2 REMOVE EXISTING LAVATORY/SINK AND FAUCET. DEMOLISH EXISTING DOMESTIC WATER, VENT AND WASTE PIPING BACK TO EXISTING MAIN AND CAP.

REMOVE FIRE HOSE CABINENT. DEMOLISH EXISTING DOMESTIC COLD WATER PIPING BELOW SLAB AND TEMPORARILY CAP. PREPARE FOR RECONNECTION IN REMODEL.

4 FIRE HOSE CABINET EXISTING TO REMAIN.

EXISTING FIXTURE TO REMAIN.

DEMOLISH EXISTING HOT WATER AND HOT WATER RETURN PIPING SERVING 3RD FLOOR RESTROOM. PROTECT IN PLACE CONNECTION TO SERVICE SINK.

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Irvine, CA 92618

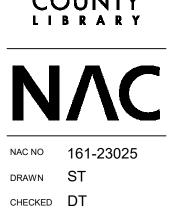


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PLAN - SECOND AND THIRD FLOOR

PLUMBING DEMO

2.02

2 2"CW UP TO FIRE HOSE CABINET.

4"SAN UP TO FIXTURE ABOVE.2"SAN UP TO FIXTURE ABOVE.

5 4"SAN DOWN BELOW.

6 1-1/2"CW AND 3/4"HW UP ABOVE.

(E)2"CW TO EXISTING FIRE HOSE CABINENT.
 3/4"CW, 3/4"HW, 2"SAN AND 1-1/2"V TO NEW SINK FIXTURE.

9 3/4"CW UP FROM BASEMENT LEVEL.

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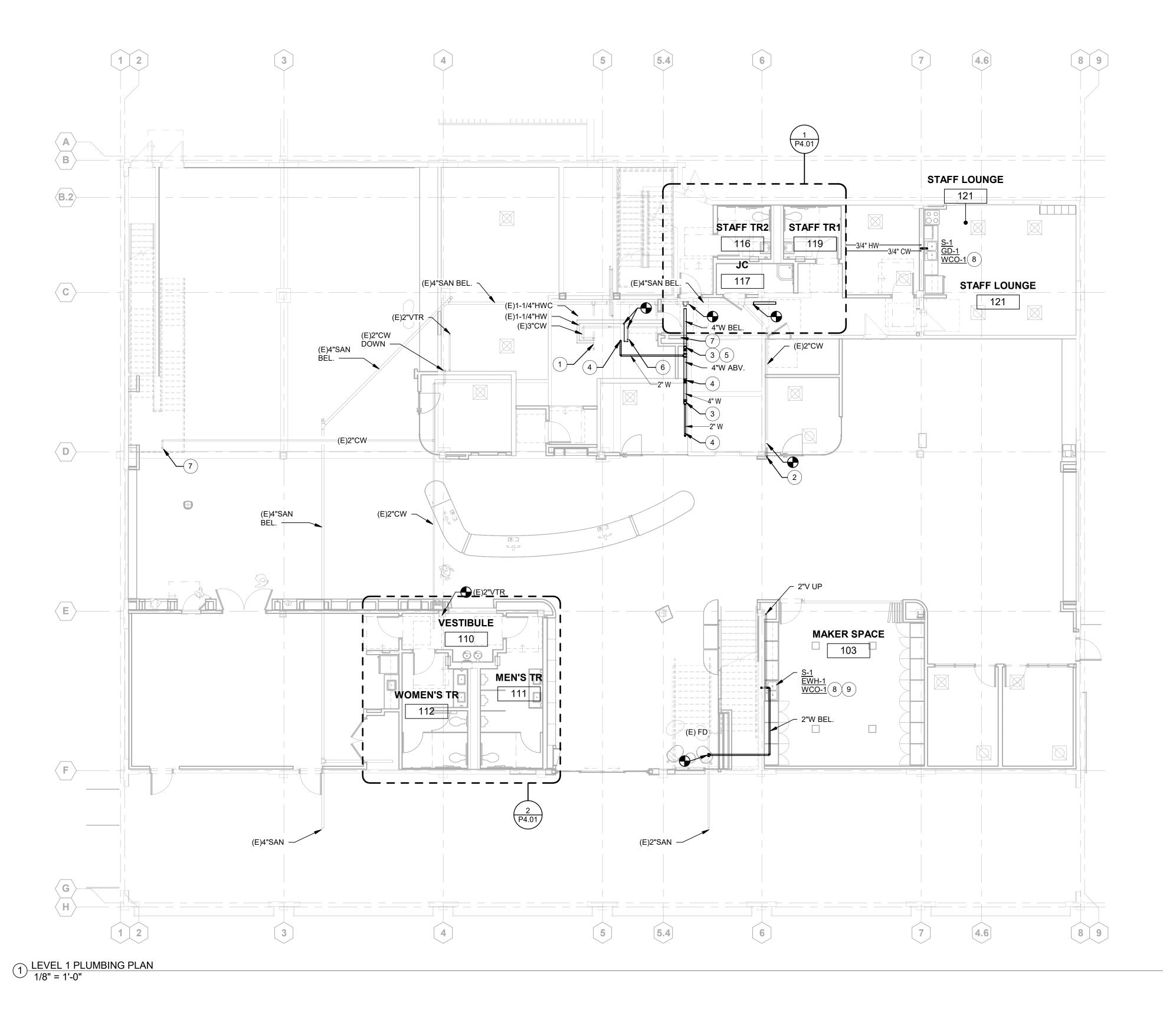
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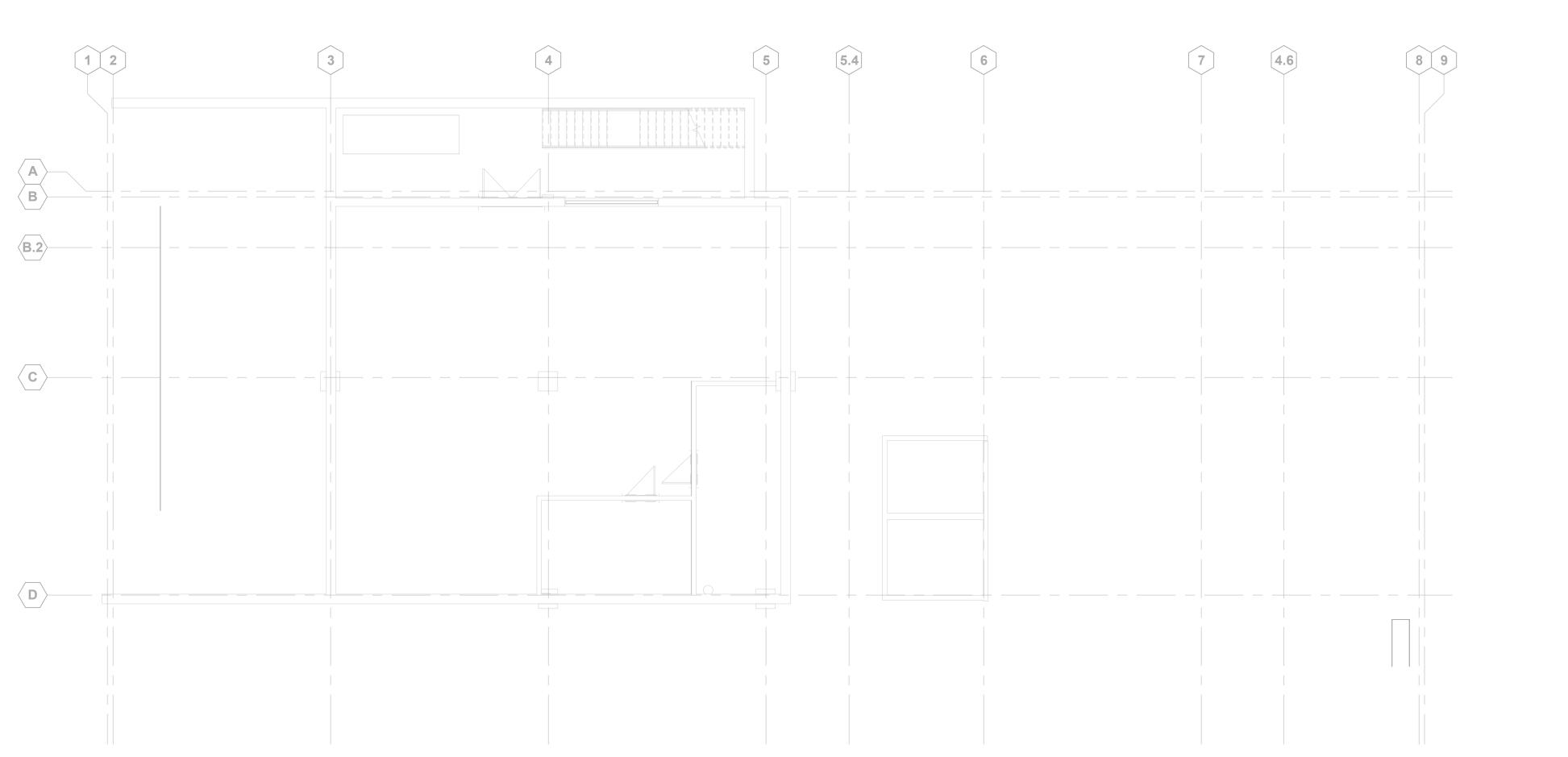
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PLUMBING PLAN -BASEMENT AND FIRST FLOOR

P3.01



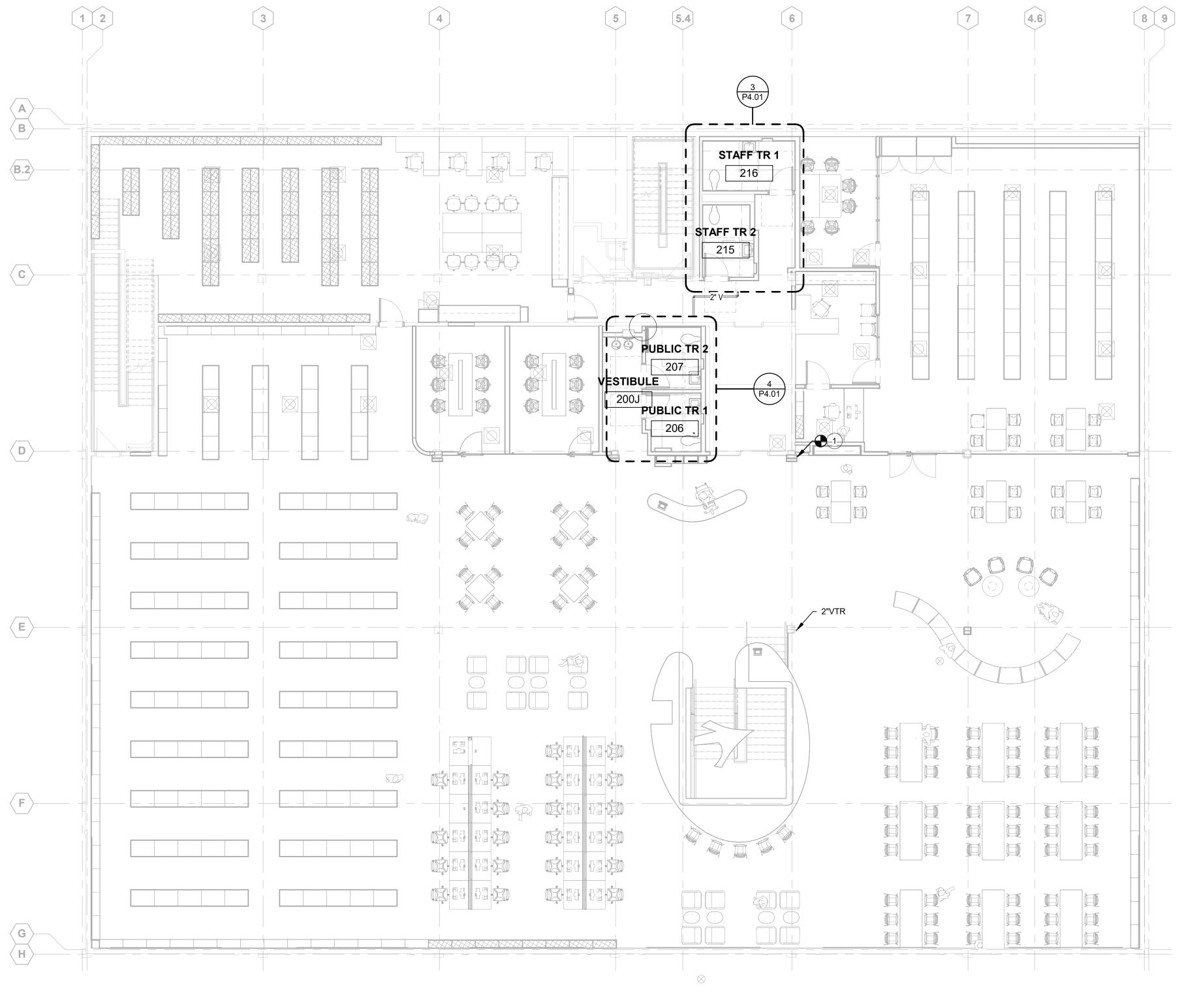


2 BASEMENT PLUMBING PLAN
1/8" = 1'-0"

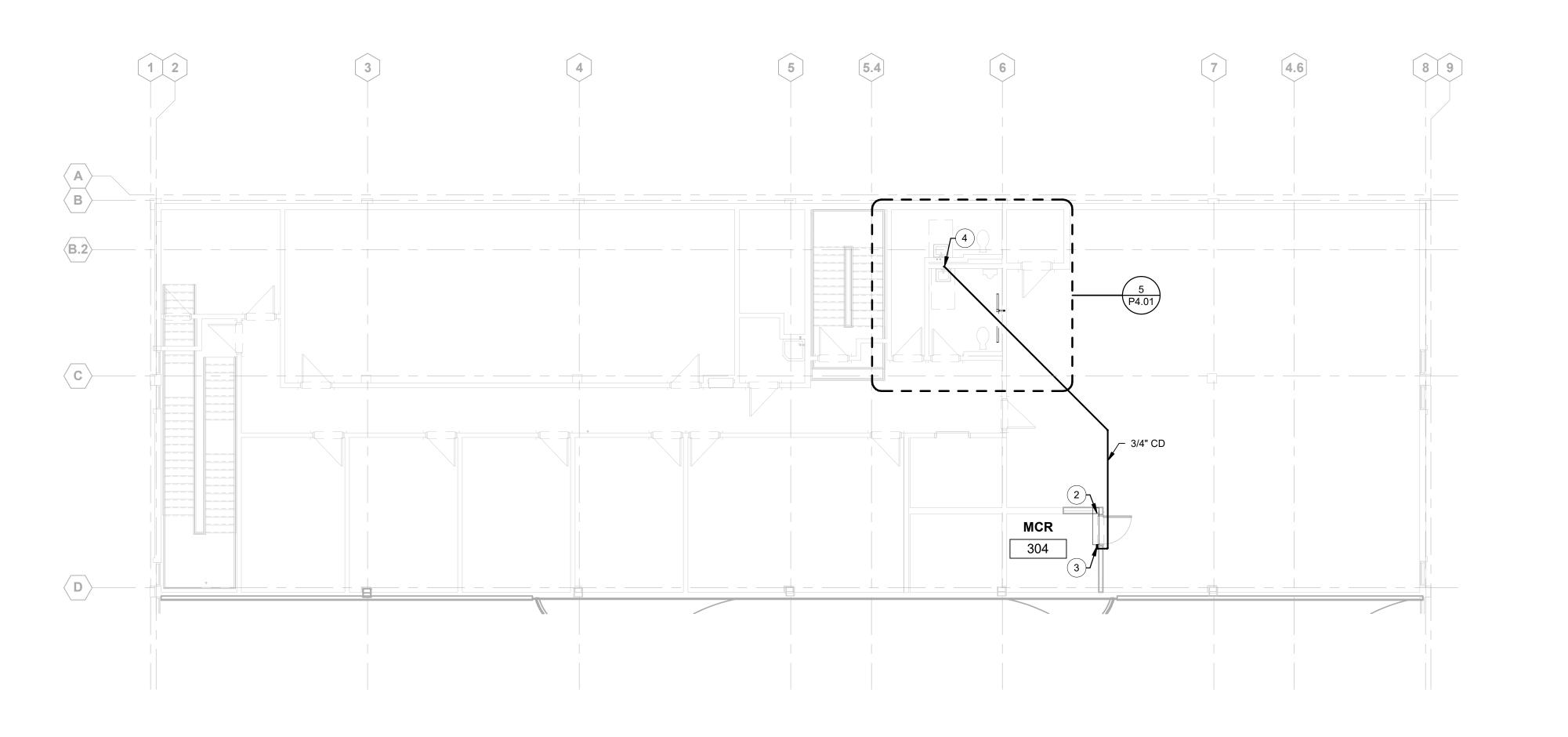
CONNECT 2"CW FROM BELOW AND REINSTALL EXISTING FIRE HOSE CABINET.

AC UNIT. SEE MECHANICAL PLANS.

3/4" CONDENSATE DRAIN TRAP. (4) 3/4" CONDENSATE DRAIN DOWN IN WALL. SPILL TO LAVATORY TAILPEICE. SEE DETAIL 4/P5.01.



1 LEVEL 2 PLUMBING PLAN 1/8" = 1'-0"



2 LEVEL 3 PLUMBING PLAN 1/8" = 1'-0"

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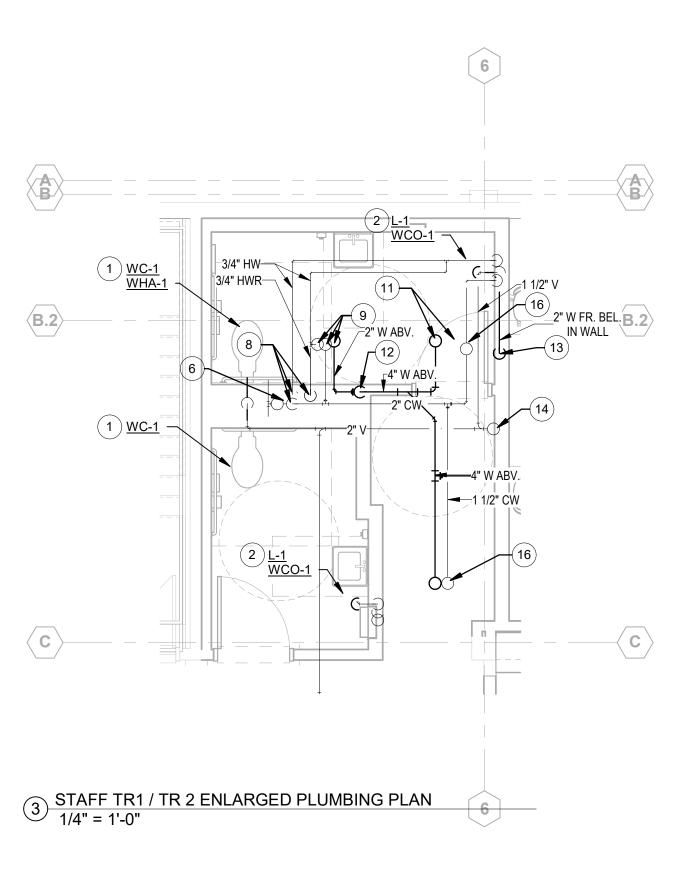


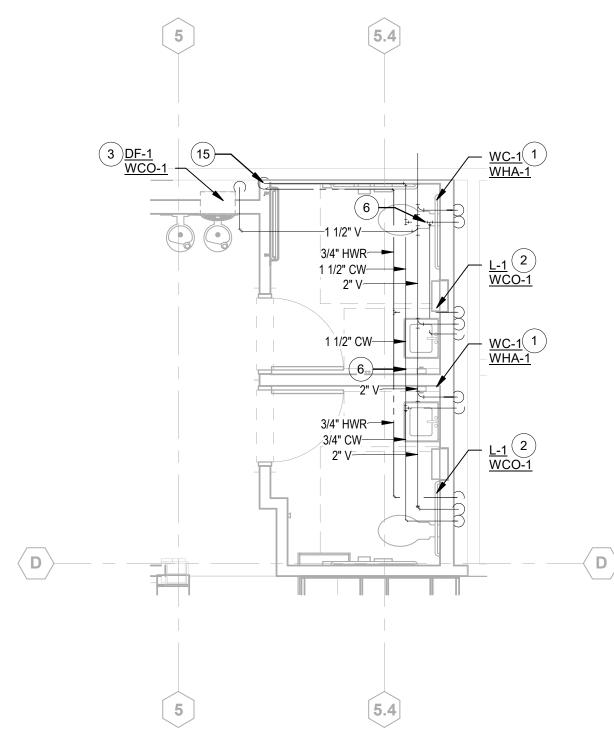


NAC NO 161-23025 DRAWN ST CHECKED DT DATE 2/28/2025

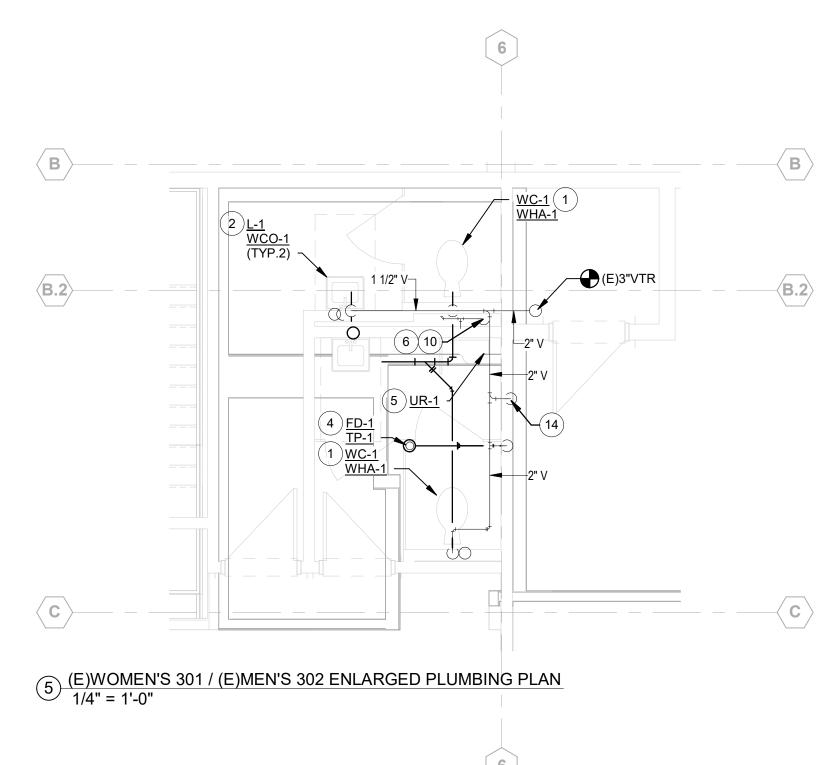
PLUMBING PLAN -SECOND AND THIRD FLOOR

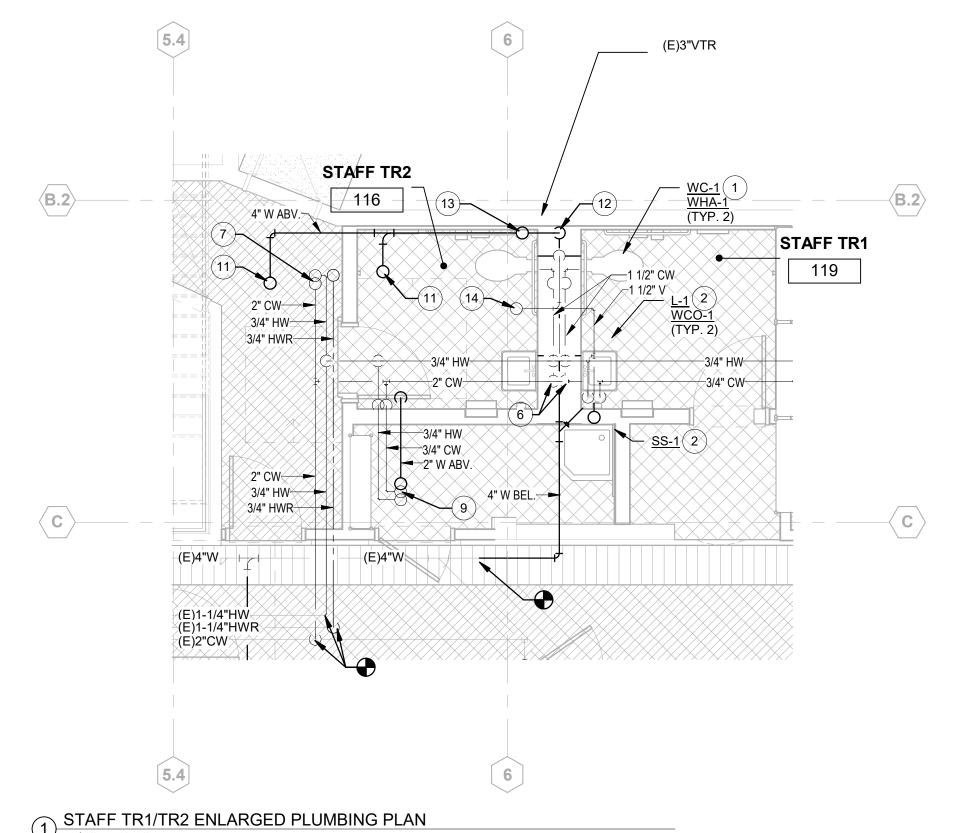
PLUMBING **ENLARGED PLANS**

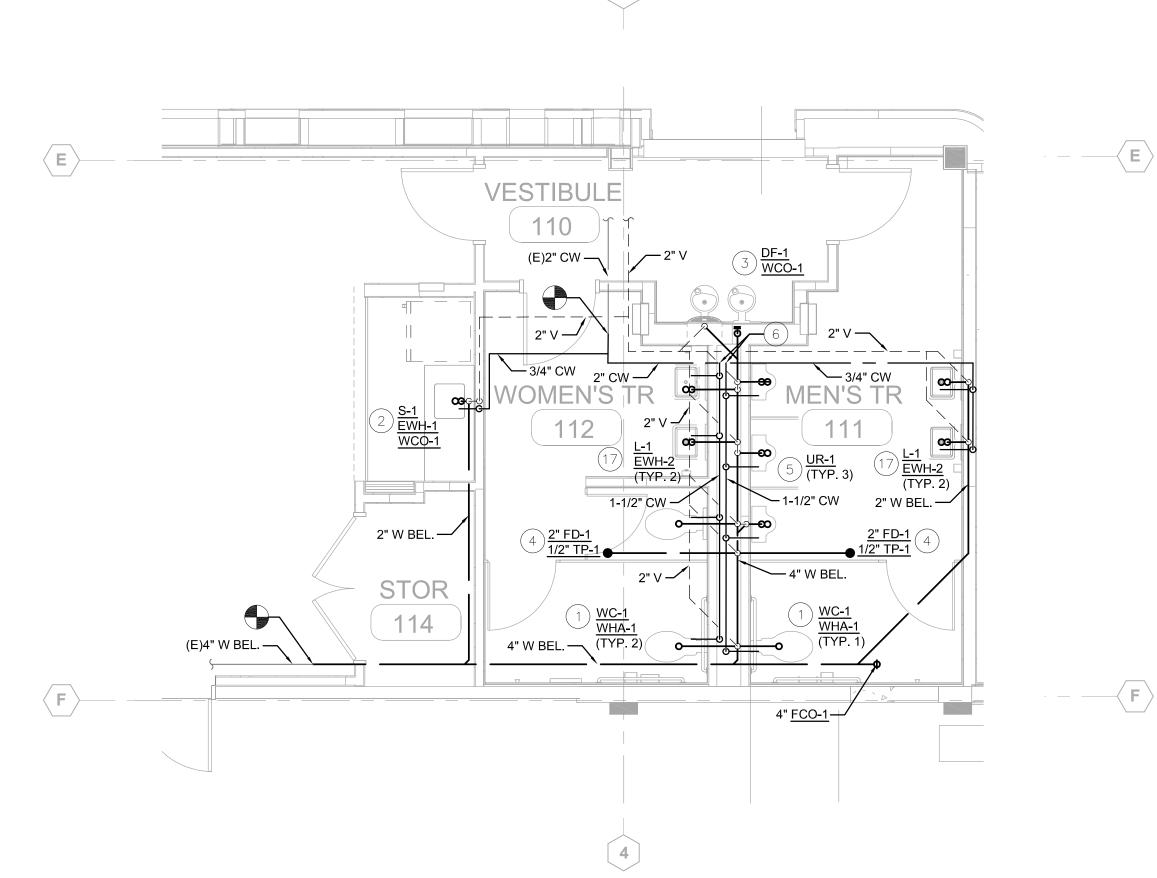




PUBLIC TR1 / TR 2 & VESTIBULE ENLARGED PLUMBING PLAN 1/4" = 1'-0"







2 MEN'S 111 / WOMEN'S 112 TR ENLARGED PLUMBING PLAN 1/4" = 1'-0"

KEYNOTES: INSTALL WATER CLOSET AND WATER HAMMER ARRESTOR. PROVIDE 1-1/2"CW, 4"SAN AND 2"V PIPING TO FIXTURE.



INSTALL DRINKING FOUNTAIN. PROVIDE 3/4"CW, 2"SAN AND 1-1/2"V PIPING TO FIXTURE.

INSTALL FLOOR DRAIN. PROVIDE 1/2" TO $\underline{\text{TP-1}}$, 2"SAN AND 1-1/2"V PIPING TO FLOOR DRAIN TO FIXTURE.

INSTALL URINAL. PROVIDE 1-1/2"CW, 2"SAN AND 2"V PIPING TO FIXTURE.

INSTALL SHUT OFF VALVE BEHIND ACCESS PANEL. 2"CW, 1-1/4"HW AND 3/4"HWR UP ABOVE.

(8) 2"CW, 1-1/4"HW AND 3/4"HWR FROM BELOW AND UP.

(9) 3/4"CW, 3/4"HW, 2"SAN UP TO FIXTURE ABOVE.

(10) 1-1/2"CW FROM BELOW.

15) 1-1/2"CW AND 3/4"HW FROM BELOW.

REINSTALL EXISTING FIRE HOSE CABINET. CONNECT NEW 2"CW TO EXISTING COLD WATER SUPPLY CAPPED IN CEILING. MODIFY CONNECTION TO ACCOMMODATE NEW CONDITION.

(11) 4"SAN UP TO FIXTURE ABOVE.

(14) 2"V UP ABOVE.

INSTALL SINK FIXTURE. PROVIDE 3/4"CW, 2"SAN AND 1-1/2"V PIPING TO FIXTURE.

16) 4" SAN AND 1-1/2"CW UP TO FIXTURE ABOVE.

1) STAFF TR1/TR2 ENLARGED PLUMBING PLAN 1/4" = 1'-0"