STRUCTURAL SHEET INDEX

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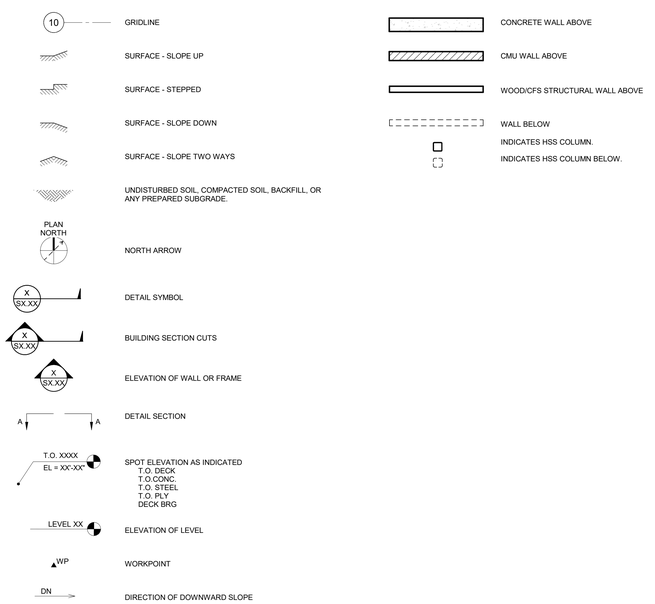
ISSUE LOG KEY:
X ISSUED AS PART OF A SET
- NOT AS PART OF ISSUED SET
* FOR INFORMATION ONLY

04-17-2023

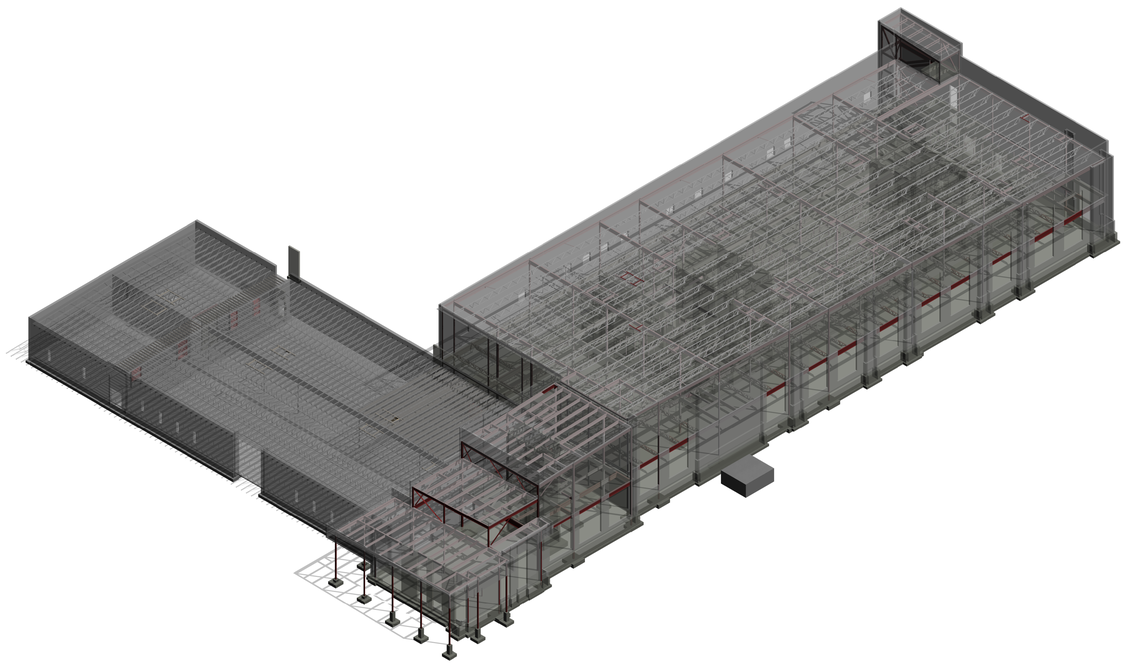
STRUCTURAL ABBREVIATIONS

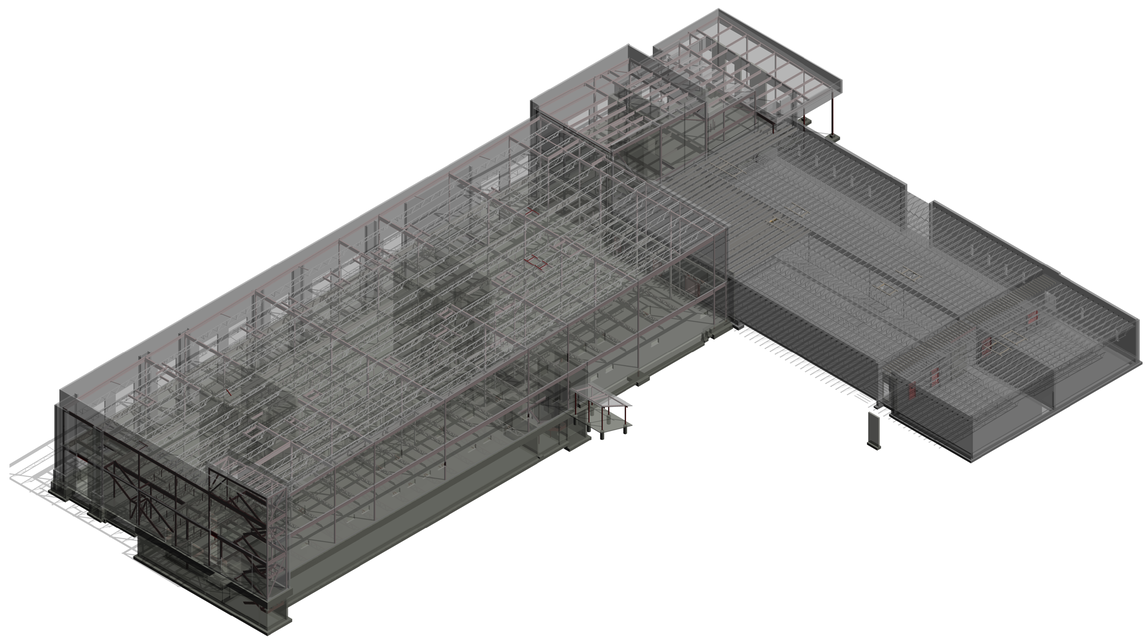
(E)	EXISTING
AB	ANCHOR BOLT
ADD'L	ADDITIONAL
ADJ	ADJUSTABLE
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
AFF	ABOVE FINISH FLOOR
ANCH	ANCHOR
ARCH	ARCHITECTURAL
ATR	ALL THREAD ROD
B.O.	BOTTOM OF
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM
BN	DIAPHRAGM BOUNDARY NAILING
BOT	BOTTOM
BRG	BEARING
BSMT	BASEMENT
BTWN	BETWEEN
C	CAMBER
CAP	CAPACITY
CC	CENTER TO CENTER
CDF	CONTROLLED DENSITY FILL
CFS	COLD-FORMED STEEL
CIP	CAST-IN-PLACE
CJ	CONSTRUCTION OR CONTROL JOINT
CJP	COMPLETE JOINT PENETRATION
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
COORD	COORDINATE
CP	COMPLETE PENETRATION
CTR	CENTER
CY	CUBIC YARD
DBA	DEFORMED BAR ANCHOR
DBL	DOUBLE
DCW	DEMAND CRITICAL WELD
DEMO	DEMOLISH
DET	DETAIL
DF	DOUGLAS FIR
DIA	DIAMETER
DIAG	DIAGONAL
DKG	DECKING
DN	DOWN
DWF	DEFORMED WIRE FABRIC
DWG	DRAWING
DWL	DOWEL
EA	EACH
EF	EACH FACE
EL	ELEVATION
ELECT	ELECTRICAL
ELEV	ELEVATOR
EN	PANEL EDGE NAILING
EQ	EQUAL OR EQUIPMENT
ES	EACH SIDE
EW	EACH WAY
EXP	EXPANSION
EXT	EXTERIOR
F	FAHRENHEIT
FD	FLOOR DRAIN
FDN	FOUNDATION
FF	FINISH FLOOR
FLR	FLOOR
FOB	FACE OF BUILDING
FS	FAR SIDE
FT	FEET
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
GB	GRADE BEAM
GEN	GENERAL
GFRC	GLASS FIBER REINFORCED CONCRETE
GL	GLUED LAMINATED TIMBER
GOV	GOVERNMENT
GR	GRADE
GWB	GYPSUM WALL BOARD
HAS	HEAD ANCHOR STUD
HF	HEM-FIR
HGR	HANGER
HK	HOOK
HORIZ	HORIZONTAL
HP	HIGH POINT
HSS	HOLLOW STRUCTURAL SECTION
IBC	INTERNATIONAL BUILDING CODE
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IF	INSIDE FACE
IN	INCH
INFO	INFORMATION
INT	INTERIOR
JST	JOIST
JT	JOINT
K	KIP (1,000 LBS.)
KSF	KIPS PER SQUARE FOOT
LF	LINEAL FOOT
LFH	LONG FACE HORIZONTAL
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LNGT	LONGITUDINAL
LP	LOW POINT
LSL	LAMINATED STRAND LUMBER
LVL	LAMINATED VENEER LUMBER
MAX	MAXIMUM
MECH	MECHANICAL
MF	MAT FOOTING
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NS	NEAR SIDE
NS	NONSHRINK
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OPNG	OPENING
OPP	OPPOSITE
OWSJ	OPEN WEB STEEL JOIST
PAF	POWER ACTUATED FASTENER
PC	PIECE
PC	PILE CAP
PEN	PENETRATION
PJP	PARTIAL JOINT PENETRATION
PL	PLATE
PLWD	PLYWOOD
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POST-TENSIONED
PT	PRESERVATIVE-TREATED
PWT	PREFABRICATED WOOD TRUSS
R	RADIUS
RC	REINFORCED CONCRETE
RD	ROOF DRAIN
REINF	REINFORCING
REQ'D	REQUIRED
RND	ROUND
RO	ROUGH OPENING
RTN	RETURN
SC	SLIP CRITICAL
SCHED	SCHEDULE
SECT	SECTION
SFRS	SEISMIC FORCE-RESISTING SYSTEM
SHT	SHEET
SHTG	SHEATHING
SIM	SIMILAR
SOG	SLAB-ON-GRADE
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STIFF	STIFFENER
STIRR	STIRRUP
STL	STEEL
STRUCT	STRUCTURAL
SUPP	SUPPORT
SYM	SYMMETRICAL
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
T.O.	TOP OF
THK	THICK(NESS)
THRU	THROUGH
TRANS	TRANSVERSE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UT	ULTRASONIC TESTING
VERT	VERTICAL
V/F	VERIFY IN FIELD
W/	WITH
W/O	WITHOUT
WD	WOOD
WF	WALL FOOTING (AT FOUNDATION LEVEL)
WF	WIDE FLANGE
WHS	WELDED HEADED STUD
WP	WORK POINT

STRUCTURAL DRAWING SYMBOLS



ISOMETRIC VIEWS





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AGENCY REVIEW SET

PROJECT	DATE
10212200038	04-17-23
DRAWN: PINN	CHECKED: NLP

REVISED

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ABBREVIATIONS, SYMBOLS AND SHEET INDEX

SHEET

S01

ORIGINAL SHEET SIZE
36" x 48"

GENERAL STRUCTURAL NOTES

ROUGH CARPENTRY:

GENERAL:

1. COMPLY WITH THE REQUIREMENTS IN CHAPTER 23 OF THE CODE AND AF&PA'S WCD 1, "DETAILS FOR CONVENTIONAL WOOD FRAME CONSTRUCTION," UNLESS OTHERWISE INDICATED

PRODUCTS:

2. DIMENSIONAL LUMBER FRAMING:
   A. SPECIES, GRADE, AND MOISTURE CONTENT NOTED BELOW:

DIMENSIONAL LUMBER			
USE	SPECIES	GRADE	MOISTURE CONTENT
LUMBER 2" TO 4" THICK x 5" OR WIDER (JOISTS/RAFTERS)	DOUGLAS FIR-LARCH	#2 & BETTER	KD (15%)
LUMBER 2" TO 3" THICK x 4" TO 6" WIDE (STUDS)	DOUGLAS FIR-LARCH	#2 & BETTER	KD (15%)
LUMBER 5x5 AND GREATER (BEAMS)	DOUGLAS FIR-LARCH	#1	S-DRY (19%)
LUMBER 5x5 AND GREATER (POSTS)	DOUGLAS FIR-LARCH	#1	S-DRY (19%)

3. FIRE-RETARDANT-TREATED MATERIALS
   A. APPLICATION: TREAT ALL LUMBER IN 3 HOUR FIRE RATED WALLS AND EXTERIOR WALLS IN TYPE III CONSTRUCTION. SEE ARCHITECTURAL DRAWINGS FOR FIRE RATED WALL LOCATIONS AND DETAILS.
4. ENGINEERED WOOD PRODUCTS:
   A. STRUCTURAL COMPOSITE LUMBER MADE FROM WOOD VENEERS WITH GRAIN PRIMARILY PARALLEL TO MEMBER LENGTHS, EVALUATED AND MONITORED ACCORDING TO ASTM D 5456 AND MANUFACTURED WITH AN EXTERIOR-TYPE ADHESIVE COMPLYING WITH ASTM D 2559. PROVIDE PRODUCTS THAT CONFORM TO THE FOLLOWING MINIMUM DESIGN STRESS:

STRUCTURAL COMPOSITE LUMBER			
PRODUCT TYPE & USE	FLEXURAL STRESS, F_b	SHEAR STRESS, F_V	MODULUS OF ELASTICITY
LAMINATED VENEER LUMBER (LVL)	2,600 psi	285 psi	2.0×10^6 psi
PARALLEL STRAND LUMBER (PSL)			
BEAM	2,900 psi	290 psi	2.0×10^6 psi
COLUMN	2,400 psi	190 psi	1.8×10^6 psi
LAMINATED STRAND LUMBER (LSL)			
BEAM	2,325 psi	310 psi	1.55×10^6 psi
COLUMN	1,700 psi	425 psi	1.3×10^6 psi

5. FASTENERS:
   A. WHERE ROUGH CARPENTRY IS EXPOSED TO WEATHER, IN GROUND CONTACT, PRESERVATIVE TREATED, FIRE RETARDANT TREATED, OR IN AREA OF HIGH RELATIVE HUMIDITY, PROVIDE FASTENERS WITH HOT-DIP ZINC COATING COMPLYING WITH ASTM A 153.
   B. NAILS: ASTM F1667, COMMON TYPE.
6. WOOD CONNECTORS:
   A. PROVIDED BASIS OF DESIGN HANGERS, STRAPS, TIES, HOLD DOWNS, ETC, AS INDICATED ON THE DRAWINGS.
   B. WHERE CONNECTORS ARE IN EXPOSED, EXTERIOR APPLICATIONS OR IN CONTACT WITH PRESERVATIVE TREATED LUMBER, PROVIDE HOT-DIP GALVANIZED OR STAINLESS STEEL CONNECTORS.

EXECUTION:

1. WHERE POSTS OR MULTIPLE STUDS UNDER BEAMS OR HEADERS ARE CALLED FOR ON DRAWINGS THOSE POSTS OR MULTIPLE STUDS SHALL BE CARRIED TO THE FOUNDATLON/PODIUM LEVEL U.N.O.
2. JOIST BLOCKING AND BRIDGING:
   A. PROVIDE FULL DEPTH SOLID BLOCKING BETWEEN JOISTS OVER SUPPORT AND BELOW PARTITION WALLS.
   B. PROVIDE FULL DEPTH BRIDGING AT 8'-0" O.C. MAX, NOT MORE THAN 8'-0" FROM SUPPORT.
3. PROVIDE DOUBLE JOISTS UNDER NON-BEARING WALLS RUNNING PARALLEL TO JOISTS.
4. PROVIDE REQUIRED FIRE STOPPING, BACKING FOR INTERIOR FINISHES, NONBEARING WALLS, AND OTHER NON-STRUCTURAL FRAMING THAT ARE NOT SHOWN ON STRUCTURAL DRAWINGS.
5. SECURELY ATTACH ROUGH CARPENTRY WORK TO SUBSTRATE BY ANCHORING AND FASTENING AS INDICATED, COMPLYING WITH TABLE 2304.10.1 OF THE CODE AND THE ICC-ES REPORT FOR THE FASTENER.
6. INSTALL WOOD CONNECTORS PER MANUFACTURER'S WRITTEN INSTRUCTIONS AND THE ICC-ES REPORT.

STEEL JOIST FRAMING:

GENERAL

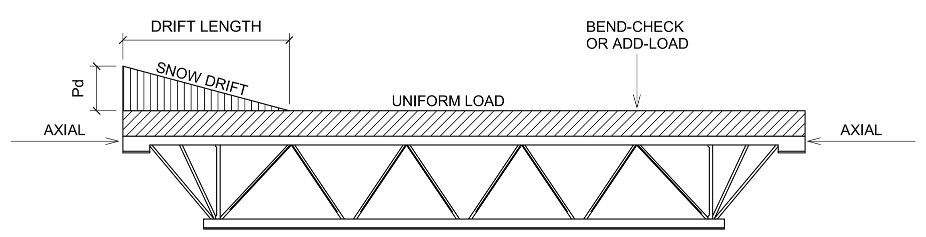
1. DESIGN, FABRICATE, AND ERECT OPEN WEB STEEL JOISTS TO COMPLY WITH THE REQUIREMENTS OF THE CODE, "STANDARD SPECIFICATION FOR K-SERIES, LH-SERIES, DLH-SERIES OPEN WEB STEEL JOISTS AND FOR JOIST GIRDERS" AND "STANDARD SPECIFICATIONS FOR CJ-SERIES COMPOSITE STEEL JOISTS".

PRODUCTS

1. PERFORMANCE CRITERIA:
   A. DESIGN JOISTS FOR LOADS INDICATED IN JOIST TABLE BELOW.
   B. SEE 05 21 00 FOR ADDITIONAL PERFORMANCE REQUIREMENTS.

EXECUTION

1. INSTALL STEEL JOIST FRAMING ACCORDING TO SJI 100 AND SJI 200 TO MANUFACTURER'S WRITTEN INSTRUCTIONS.



JOIST SCHEDULE (ASD)														
JOIST DESIGNATION	JOIST TYPE	MAX JOIST DEPTH	DESIGN LOADS, PLF							CONCENTRATED DESIGN LOADS, LB				
			DEAD[1] LOAD	ROOF LIVE LOAD	SNOW LOAD				NET[2] WIND UPLIFT (ASD)	TOP CHORD BEND CHECK[4]	BOT. CHORD BEND CHECK[4]	ADD-[3] LOAD	AXIAL[5]	JOIST[10] SPACING
					P_f	P_d	DRIFT LENGTH	P_{min}						
10CJ	COMPOSITE	10"	PER LOADING PLANS						0	500	500	1,000	0	PER PLAN
20CJ	COMPOSITE	20"	PER LOADING PLANS						0	500	500	1,000	0	PER PLAN
24CJ	COMPOSITE	24"	PER LOADING PLANS						0	500	500	1,000	0	PER PLAN
26CJ	COMPOSITE	26"	PER LOADING PLANS						0	500	500	1,000	0	PER PLAN
30CJ	COMPOSITE	30"	PER LOADING PLANS						0	500	500	1,000	0	PER PLAN
12K	NON-COMPOSITE	12"	PER LOADING PLANS						105	500	500	1,000	0	PER PLAN
18K	NON-COMPOSITE	18"	PER LOADING PLANS						105	500	500	1,000	0	PER PLAN
30K	NON-COMPOSITE	30"	PER LOADING PLANS						105	500	500	1,000	0	PER PLAN
30K-A	NON-COMPOSITE	30"	PER LOADING PLANS						105	500	500	1,000	5,500	PER PLAN

1. DEAD LOADS LISTED ARE SUPERIMPOSED LOADS. SELF-WEIGHT OF JOISTS ARE NOT INCLUDED
2. WIND UPLIFT VALUES PROVIDED ARE SERVICE-LEVEL (ASD). NET WIND UPLIFT (PLF) INCLUDES 0.6xSUPERIMPOSED DEAD LOAD. DOES NOT INCLUDE JOIST SELF-WEIGHT.
3. FOR ADD-LOAD, DESIGN JOIST FOR CONCENTRATED LOADS LOCATED AT ANY ONE PANEL POINT ALONG THE JOIST. ADD LOADS SHOULD BE CONSIDERED AS DEAD LOADS.
4. FOR BEND-CHECK, DESIGN JOIST TOP CHORD FOR ADDITIONAL BENDING STRESSES RESULTING FROM CONCENTRATED LOADS LOCATED AT ANY LOCATION ALONG CHORD.
5. a. AXIAL LOADS PROVIDED IN SCHEDULE ARE FROM WIND PRESSURE OR SEISMIC WALL FORCES THAT ARE FACTORED TO ASD LEVEL.

   b. AXIAL LOADS PROVIDED ON PLAN ARE FROM WIND PRESSURE OR SEISMIC COLLECTOR FORCES THAT ARE FACTORED TO ASD OMEGA (Ω) LEVEL. REFER TO PLANS.
6. COMBINE FLAT ROOF SNOW LOAD (P_f) AND DRIFT LOAD (P_d). DRIFT LOADS INDICATED SHOULD BE APPLIED WHERE INDICATED ON PLAN
7. MINIMUM ROOF SNOW LOAD (P_{min}) IS A SEPARATE UNIFORM LOAD CASE. IT NEED NOT BE USED IN DETERMINING OR IN COMBINATION WITH DRIFT, UNBALANCED, OR PARTIAL LOADS.
8. POINT LOADS SHOWN ON PLANS ARE VERTICAL SERVICE LEVEL (ASD) LOADS. THEY ARE SHOWN AS TOTAL LOAD/LIVE LOAD.
9. SEE PLAN FOR ADDITIONAL LOADING APPLIED TO SPECIFIC JOISTS.
10. JOIST MAX SPACING IS LIMITED TO DECK SPAN. REFER TO DECK SCHEDULE.
11. ALL JOIST SEAT TO BE 5" DEEP.
12. JOIST MANUFACTURER TO DESIGN FOR JOIST PENETRATIONS, COORDINATE WITH MECHANICAL DRAWINGS.

OBSERVATIONS

STRUCTURAL OBSERVATIONS:

1. KPFF WILL PERFORM STRUCTURAL OBSERVATION BASED ON THE REQUIREMENTS OF CHAPTER 17 OF THE CODE AT THE STAGES OF CONSTRUCTION LISTED BELOW. CONTRACTOR SHALL NOTIFY ARCHITECT AND PROVIDE ACCESS FOR KPFF TO PERFORM THESE OBSERVATIONS.
2. KPFF WILL ISSUE AN OBSERVATION REPORT TO ARCHITECT FOR DISTRIBUTION TO THE OWNER AND CONTRACTOR. OBSERVATION REPORT WILL IDENTIFY WORK OBSERVED AND ANY WORK NOT IN CONFORMANCE WITH CONTRACT DOCUMENTS.
3. STRUCTURAL OBSERVATION IS TO VERIFY GENERAL CONFORMANCE WITH THE STRUCTURAL DRAWINGS. STRUCTURAL OBSERVATIONS DO NOT REPLACE THE NEED FOR SPECIAL INSPECTION AS REQUIRED BY CHAPTER 17 OF THE CODE.

STRUCTURAL OBSERVATIONS	
ITEM	**TIMING/FREQUENCY OF OBSERVATION**
A. FOUNDATIONS	PRIOR TO FIRST CONCRETE PLACEMENT, AFTER REINFORCING IS INSTALLED AND TIED.
B. CONCRETE WALLS	PRIOR TO FIRST CONCRETE WALL PLACEMENT. AFTER REINFORCING IN INSTALLED AND TIED.
C. MASONRY SHEARWALLS	DURING CONSTRUCTION OF MASONRY SHEARWALLS
D. STEEL FRAME	AFTER EACH LEVEL OF STEEL IS ERECTED, PRIOR TO APPLICATION OF FIRE PROOFING.
E. LATERAL FORCE RESISTING SYSTEM	AFTER EACH LEVEL ERECTED, PRIOR TO APPLICATION OF FINISHES.
F. CONCRETE DIAPHRAGMS	PRIOR TO FIRST CONCRETE POUR AT EACH FLOOR LEVEL, AFTER REINFORCING STEEL IS INSTALLED
G. STEEL DECK DIAPHRAGMS	AFTER STEEL DECK IS INSTALLED AND ATTACHED TO STRUCTURE. PRIOR TO ROOFING INSTALLATION.

CONCRETE MASONRY UNIT:

GENERAL:

1. FURNISH AND INSTALL MASONRY MATERIALS IN CONFORMANCE WITH THE REQUIREMENTS OF TMS 602/ACI 530.1/ASCE 6, "SPECIFICATION FOR MASONRY STRUCTURES"

PRODUCTS:

1. PERFORMANCE REQUIREMENTS:
   A. PROVIDE STRUCTURAL UNIT MASONRY THAT DEVELOPS SPECIFIED NET-AREA COMPRESSIVE STRENGTH OF MASONRY, f'm AT 28 DAYS.
      a. MINIMUM f'm: 2,000 psi
   B. VERIFY NET-AREA COMPRESSIVE STRENGTH OF MASONRY USING ONE OF THE FOLLOWING METHODS:
      a. PRISM TESTING: DETERMINE NET-AREA COMPRESSIVE STRENGTH OF MASONRY BY TESTING MASONRY PRISMS ACCORDING TO ASTM C1314.
      b. UNIT STRENGTH METHOD: DETERMINE NET-AREA COMPRESSIVE STRENGTH OF MASONRY FROM AVERAGE NET-AREA COMPRESSIVE STRENGTHS OF MASONRY UNITS AND MORTAR TYPE ACCORDING TO TMS 602/ACI 530.1/ASCE 6 AS FOLLOWS:

CMU COMPRESSIVE STRENGTH VERIFICATION (UNIT STRENGTH METHOD)			
SPECIFIED MASONRY NET-AREA COMPRESSIVE STRENGTH, f'_m	CMU NET-AREA COMPRESSIVE STRENGTH	GROUT STRENGTH	MORTAR TYPE
2,000 PSI	2,000 PSI	2,000 PSI	S
2,500 PSI	3,250 PSI	2,500 PSI	S
3,000 PSI	4,500 PSI	3,000 PSI	S

2. MATERIALS:
   a. NORMAL WEIGHT CMU: 125 PCF OR GREATER
   b. LIGHT WEIGHT CMU: 105 PCF OR LESS
3. REINFORCING BARS: SEE NOTES UNDER "REINFORCING STEEL" FOR REQUIREMENTS.

EXECUTION:

1. GROUTING:
   A. GROUT CELLS AS INDICATED.
   B. USE OF HIGH-LIFT GROUT CONSTRUCTION IS SUBJECT TO APPROVAL BY THE ARCHITECT. HIGH-LIFT GROUTING SHALL CONFORM TO THE REQUIREMENTS IN TMS 602/ACI 530.1/ASCE 6.
2. EMBEDDED ITEMS IN CMU: DO NOT EMBED PIPES IN CMU EXCEPT WHERE SPECIFICALLY DETAILED. VERTICAL CONDUITS MAY BE EMBEDDED IF THE FOLLOWING CONDITIONS ARE MET:
   A. CONDUITS ARE < 3/4" IN DIAMETER.
   B. CONDUITS ARE NOT PLACED IN A CELL WITH REINFORCEMENT.
   C. CONDUITS ARE A MINIMUM OF 24" FROM JAMB/END REINFORCEMENT.
   D. CELLS WITH CONDUITS ARE SPACED 32" OC MIN.
   E. (2) MAX PER UNREINFORCED CELL, 3 DIAMETERS (MIN) O.C.

STRUCTURAL STEEL:

GENERAL:

1. DETAIL, FABRICATE, AND ERECT STRUCTURAL STEEL IN ACCORDANCE WITH THE FOLLOWING PROVISIONS:
   A. AISC 303 - "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES"
   B. AISC 360 - "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS"
   C. AISC 341 - "SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS" FOR MEMBERS OF THE SEISMIC FORCE RESISTING SYSTEM (SFRS)
   D. RCSC's - "SPECIFICATIONS FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS"
2. COMPLY WITH THE FOLLOWING PROVISIONS FOR ALL WELDED JOINTS:
   A. AWS D1.1 - "STRUCTURAL STEEL WELDING CODE"
   B. AWS D1.8 - "SEISMIC SUPPLEMENT" FOR CONNECTIONS OF THE SEISMIC FORCE RESISTING SYSTEM (SFRS)
3. WELD LENGTHS CALLED 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 360 SECTION J2.2b.

PRODUCTS:

1. ALL STRUCTURAL STEEL SHALL CONFORM TO THE ASTM DESIGNATION AS INDICATED BELOW (UNO):

TYPE	ASTM SPECIFICATION
W SHAPES AND WT SHAPES	A992 OR A913, GR 50 (S75)
ANGLES & CHANNELS	A36
PLATES & BARS	A36 A572, GR 50 (WHERE INDICATED)
PIPE SECTIONS	A53, GR B
HSS SECTIONS	A500 GR B A1085 (WHERE INDICATED)
CORROSION RESISTANT STEEL (WHERE INDICATED)	A588 GR 50 (FOR ROLLED SHAPES) A847 (FOR HSS)
HIGH STRENGTH BOLTS (AS INDICATED IN DETAILS)	A325 OR F1582 (TWIST-OFF TYPE) A490 OR F2280 (TWIST-OFF TYPE)
ANCHOR RODS	F1554 GR 55 F1554 GR 36/105 (WHERE INDICATED)
COMMON/MACHINE BOLTS	A307, GR A
SHEAR CONNECTORS	A108, GRADES 1015 TROUGH 1020 AWS D1.1, TYPE B

EXECUTION:

1. DO NOT CUT OR DAMAGE EXISTING REINFORCEMENT. PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED TO REINFORCED CONCRETE/MASONRY USING POST-INSTALLED ANCHORS, LOCATE ALL REINFORCEMENT AND CONFIRM CONSTRUCTABILTY OF ANCHOR LOCATIONS. SHOULD CONFLICTS WITH REINFORCEMENT OCCUR, SUBMIT ALTERNATE ANCHOR LOCATIONS AND REVISED STEEL FABRICATIONS TO ARCHITECT FOR REVIEW AND APPROVAL.
2. BACKUP BARS MAY REMAIN IN PLACE UNLESS NOTED IN DRAWINGS, OR WHEN ULTRASONIC TESTING INDICATES A POSSIBLE WELD DEFECT. IF DEFECTS ARE INDICATED BACKUP BAR IS TO BE REMOVED AND THE ROOT INSPECTED. IF IMPERFECTIONS ARE FOUND, THEY ARE TO BE REMOVED AND REPAIRED PER AWS REQUIREMENTS.

STEEL DECK:

GENERAL

1. FABRICATE AND INSTALL STEEL DECK ACCORDING TO THE FOLLOWING PROVISIONS:
   A. ROOF DECK: ANSI/SDI RD-2017, "STANDARDS FOR STEEL ROOF DECK."
   B. COMPOSITE FLOOR DECK: ANSI/SDI C-2017, "STANDARDS FOR COMPOSITE STEEL FLOOR DECK-SLAB."
   C. WELDING OF STEEL DECK: AWS D1.3, "SPECIFICATIONS FOR WELDING SHEET STEEL IN STRUCTURES."

PRODUCTS

1. PROVIDE AND INSTALL ROOF DECK WITH MINIMUM SECTION PROPERTIES ARE AS INDICATED IN ICC-ESR-1735P
2. PROVIDE AND INSTALL COMPOSITE DECK WITH MINIMUM SECTION PROPERTIES ARE AS INDICATED IN ICC-ESR-1735P

EXECUTION

1. EXAMINE SUPPORTING FRAME AND FIELD CONDITIONS FOR COMPLIANCE WITH REQUIREMENTS FOR INSTALLATION TOLERANCES AND OTHER CONDITIONS AFFECTING PERFORMANCE. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
   A. RUN UNITS CONTINUOUS OVER THREE OR MORE SPANS.
   B. PROVIDE 2" MINIMUM DECK BEARING AT ALL SUPPORTS.
2. INSTALL DECK PANELS AND ACCESSORIES ACCORDING TO ANSI/SDI STANDARDS AND MANUFACTURER'S WRITTEN INSTRUCTIONS.
3. INSTALL TEMPORARY SHORING BEFORE PLACING DECK PANELS AS REQUIRED TO MEET DEFLECTION LIMITATIONS.

COLD-FORMED METAL FRAMING:

GENERAL

1. FABRICATE AND INSTALL COLD-FORMED METAL FRAMING ACCORDING TO THE FOLLOWING PROVISIONS:
   A. AISI S100, "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS".
   B. AISI S200, "NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING".
   C. WELDING OF COLD-FORMED METAL FRAMING: AWS D1.3, "SPECIFICATIONS FOR WELDING SHEET STEEL IN STRUCTURES."

PRODUCTS

1. PROVIDE GALVANIZED COLD-FORMED STEEL STUDS, TRACKS, AND FURRING CHANNELS CONFORMING WITH ICC-ES #3064P, "PRODUCT TECHNICAL GUIDE" BY THE STEEL STUD MANUFACTURERS ASSOCIATION AND THE FOLLOWING:
   A. MATERIAL SPECIFICATION:
      a. 16 GAGE AND THICKER: ASTM A653, GRADE 50 OR ASTM A1003, GRADE 50, TYPE H
      b. 18 GAGE AND THINNER: ASTM A653, GRADE 33 OR ASTM A1003, GRADE 33, TYPE H
   B. MINIMUM SECTION PROPERTIES: BASED ON ICC-ES #3064P, "PRODUCT TECHNICAL GUIDE" BY THE STEEL STUD MANUFACTURERS ASSOCIATION.
2. SHEET STEEL FOR VERTICAL DEFLECTION AND DRIFT CLIPS:
   A. MATERIAL SPECIFICATION: ASTM A653, GRADE 50 OR ASTM A1003, GRADE 50, TYPE H
   B. COATING: G90
3. FASTENERS:
   A. EXPANSION ANCHORS: HILTI KB-TZ2, PER ICC ESR-4266
   B. POWER-ACTUATED FASTENERS: 0.157" HILTI X-U PER ICC ESR-2269
   C. SHEET METAL SCREWS: HILTI KWIK-FLEX OR ELCO DRIL-FLEX PER ICC ESR-3332

EXECUTION

1. INSTALL COLD-FORMED STEEL FRAMING ACCORDING TO AISI S200 AND TO MANUFACTURER'S WRITTEN INSTRUCTIONS.

FOUNDATION:

GEOTECHNICAL INVESTIGATION:

1. GEOTECHNICAL INFORMATION AND FOUNDATION DESIGN IS BASED ON THE FOLLOWING GEOTECHNICAL REPORTS AND SUPPLEMENTS/ADDENDUMS. COPIES OF THE REPORTS SHALL BE AVAILABLE AT THE JOBSITE AT ALL TIMES.

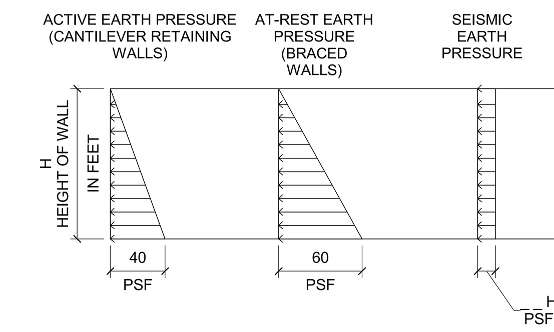
REPORT/ADDENDUM TITLE	PREPARED BY	DATE
TF21169B FINAL REPORT	STRATA	08/02/2022

GEOTECHNICAL DESIGN CRITERIA:

1. SPREAD OR CONTINUOUS FOOTINGS:

ANTICIPATED BEARING MATERIAL	ALLOWABLE BEARING CAPACITY	MINIMUM FROST DEPTH	ALLOWABLE LATERAL RESISTANCE		SUBGRADE MODULUS
			PASSIVE RESISTANCE	COEFFICIENT OF FRICTION	
GROUND LEVEL	3,000 PSF	24"	250 PSF	0.55	30 PSI/IN
BASEMENT LEVEL FOOTINGS	6,000 PSF	N/A	250 PSF	0.70	30 PSI/IN

2. LATERAL EARTH PRESSURE:



FOUNDATION REQUIREMENTS:

1. STRUCTURAL FILL: COMPACT ALL SOIL BELOW FOUNDATIONS AND SLABS-ON-GRADE TO MINIMUM 95% OF OPTIMUM DRY DENSITY PER ASTM D1557.
2. FROST PROTECTION: AT EXTERIOR FOOTINGS, PROVIDE MINIMUM FROST DEPTH INDICATED IN SCHEDULE FROM LOWEST ADJACENT GRADE TO BOTTOM OF FOOTING. VERIFY THAT FOOTING ELEVATIONS AND FINAL GRADES INDICATED WILL PROVIDED THIS MINIMUM DEPTH. NOTIFY ARCHITECT OF ANY LOCATIONS THAT MAY NOT ACHIEVE THIS MINIMUM FROST DEPTH.
3. PROVIDE DE-WATERING OF EXCAVATIONS FROM SURFACE WATER, GROUND WATER AND/OR SEEPAGE.
4. EXCAVATION FOR FOOTINGS SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE AND REINFORCING.
5. DO NOT PLACE BACKFILL BEHIND RETAINING WALLS BEFORE CONCRETE OR GROUT HAS ATTAINED FULL DESIGN STRENGTH. BRACE OR PROTECT ALL BUILDING AND PIT WALLS BELOW GRADE FROM LATERAL LOADS UNTIL ATTACHING FLOORS ARE COMPLETELY IN PLACE AND HAVE ATTAINED FULL DESIGN STRENGTH.
6. REMOVE ALL ABANDONED FOOTINGS, UTILITIES, ETC. NEW FOOTINGS MUST EXTEND INTO UNDISTURBED SOILS.
7. THE DESIGN GROUNDWATER ELEVATION IS 25 TO 45 FEET BELOW EXISTING GRADE PER THE GEOTECHNICAL INVESTIGATION REPORT.

CAST-IN-PLACE CONCRETE:

GENERAL:

1. COMPLY WITH THE PROVISIONS OF ACI 301 AND ACI 117, EXCEPT AS MODIFIED BY THESE CONTRACT DOCUMENTS.
2. MANUFACTURER QUALIFICATIONS: CERTIFIED ACCORDING TO NRMCA's "CERTIFICATION OF READY MIXED CONCRETE PRODUCTION FACILITIES.
3. COMPLY WITH THE PROCEDURES IN ACI306R - GUIDE TO COLD WEATHER CONCRETING FOR COLD WEATHER PLACEMENT.

PRODUCTS:

1. CONCRETE MIXTURES: PREPARE DESIGN MIXTURES FOR EACH TYPE AND STRENGTH OF CONCRETE, PROPORTIONED ON THE BASIS OF LABORATORY TRIAL MIXTURES OR FIELD TEST DATA OR BOTH, ACCORDING TO ACI 301.

CONCRETE MIXTURES				
LOCATIONS IN STRUCTURE	DESIGN STRENGTH	MAX UNIT WEIGHT	MAX W/C RATIO	EXPOSURE CATEGORIES
FOOTINGS AND FOUNDATION WALLS	4,500 PSI	145 PCF	0.45	F2, S0, W0, C0
SLAB ON GRADE	4,000 PSI	145 PCF	0.45	F0, S0, W0, C0
NORMAL WEIGHT CONCRETE DECK	4,000 PSI	145 PCF	0.50	F0, S0, W0, C0
CURBS, PADS, TOPPING SLABS, ETC.	4,000 PSI	145 PCF	0.50	F0, S0, W0, C0
WALLS AND BUILDING FRAME MEMBERS	4,000 PSI	145 PCF	0.50	F0, S0, W0, C0

EXECUTION:

1. OPENINGS, POCKETS, ETC., LARGER THAN 6" SHALL NOT BE PLACED IN CONCRETE SLABS, DECKS, OR WALLS UNLESS SPECIALLY DETAILED ON THE STRUCTURAL DRAWINGS. NOTIFY THE ARCHITECT WHEN DRAWINGS BY OTHERS SHOW OPENINGS, POCKETS, ETC., LARGER THAN 6" NOT SHOWN ON THE STRUCTURAL DRAWINGS.
2. PIPES AND CONDUITS EMBEDDED IN CONCRETE:
   A. PIPES LARGER THAN 1-1/2" DIAMETER SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE EXCEPT WHERE SPECIFICALLY APPROVED BY ARCHITECT.
   B. PIPES SHALL NOT DISPLACE OR INTERRUPT REINFORCING BARS.
   C. DO NOT STACK CONDUITS. SPACE EMBEDDED PIPES AND CONDUITS AT A MINIMUM OF AT A MINIMUM OF 3 DIAMETERS CLEAR FROM OTHER EMBEDDED PIPES/CONDUITS AND 1 1/2" CLEAR FROM REINFORCING BARS.
   D. NO CONDUITS SHALL BE PLACED IN CONCRETE FILL OVER METAL DECK.
3. PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL OPENINGS IN CONCRETE BEFORE PLACING. DO NOT CUT REINFORCING WHICH MAY CONFLICT. CORING IN CONCRETE IS NOT PERMITTED WITHOUT ARCHITECT REVIEW AND APPROVAL.
4. SCREED CONCRETE FILL OVER STEEL DECK TO A CONSTANT THICKNESS AS SPECIFIED IN THE DECKING SCHEDULE. DO NOT EXCEED THE SPECIFIED DECK THICKNESS BY MORE THAN 1/2".
5. ALL CONCRETE SURFACES AGAINST WHICH NEW CONCRETE IS TO BE PLACED SHALL BE CLEANED AND ROUGHENED TO 1/4" AMPLITUDE.

NONSHRINK GROUTING:

GENERAL:

1. SUBMITTALS: PRODUCT DATA SHEETS

PRODUCTS:

1. SHRINKAGE-RESISTANT GROUT: ASTM C1107
   A. NONMETALIC TYPE
   B. MINIMUM f'c = 8,000 psi

EXECUTION:

1. COMPLY WITH MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS FOR SHRINKAGE-RESISTANT GROUTS.

REINFORCING STEEL:

GENERAL:

1. DETAIL, FABRICATE, AND INSTALL REINFORCING IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 301, ACI 117, AND THE "CRSI MANUAL OF STANDARD PRACTICE."

PRODUCTS:

1. REINFORCING STEEL: ASTM A615 & A706, GRADE 60, DEFORMED
2. WELDED WIRE REINFORCEMENT (WWR): ASTM A1064

EXECUTION:

1. PROVIDE THE MINIMUM CONCRETE COVER FOR REINFORCEMENT IN CAST-IN-PLACE CONCRETE (NON-PRESTRESSED) AS INDICATED IN THE TABLE BELOW.

MINIMUM CONCRETE CLEAR COVER		
LOCATION	BAR SIZE	CLEAR COVER
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	ALL	3"
CONCRETE EXPOSED TO EARTH OR WEATHER	#6 & LARGER	2"
	#5 & SMALLER	1 1/2"
SLABS, WALLS, OR JOISTS NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND	#14 & LARGER	1 1/2"
	#11 & SMALLER	3/4"
BEAM AND COLUMN TIES & STIRRUPS NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	ALL	1 1/2"
SLAB ON METAL DECK	ALL	1"

GENERAL:

STRUCTURAL DRAWINGS:

1. STRUCTURAL DRAWINGS ARE A PORTION OF THE CONTRACT DOCUMENTS AND ARE INTENDED TO BE USED WITH OTHER DRAWINGS, SPECIFICATIONS, AND DOCUMENTS ENUMERATED IN THE OWNER/CONTRACTOR AGREEMENT.
2. REVIEW AND COORDINATE THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCY IDENTIFIED SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE.
3. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.

CODE REQUIREMENTS AND REFERENCED STANDARDS:

1. ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING CODES:

   2018 INTERNATIONAL BUILDING CODE (IBC) AND LATEST REVISIONS REFERRED TO HERE AS "THE CODE", AND ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK AND THOSE CODES & STANDARDS LISTED IN THESE NOTES AND SPECIFICATIONS.
2. ASTM SPECIFICATIONS AND REFERENCED STANDARDS ON THE DRAWINGS SHALL BE THE VERSION REFERENCED IN CHAPTER 35 OF THE CODE OR AS REFERENCED IN THE APPLICABLE DESIGN STANDARD.

EXISTING CONDITIONS:

1. VERIFY EXISTING CONDITIONS, DIMENSIONS, AND ELEVATIONS PRIOR TO STARTING CONSTRUCTION. NOTIFY THE ARCHITECT ANY DISCREPANCIES OR INCONSISTENCIES.
2. INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES, SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS, ETC. IF ANY SUCH STRUCTURES ARE FOUND, NOTIFY THE ARCHITECT IMMEDIATELY.

TEMPORARY CONDITIONS:

1. THE CONTRACT DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION, INCLUDING BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT ETC. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER DO NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.
2. THE CONTRACT STRUCTURAL DRAWINGS SHOW THE BUILDING IN ITS FINAL INTENDED POSITION. MAKE PROVISIONS IN THE CONSTRUCTION SEQUENCING OF THE BUILDING TO TAKE INTO ACCOUNTS SHRINKAGE, CREEP, SHORTENING, THERMAL EXPANSION, ETC.
3. SPREAD OUT CONSTRUCTION MATERIALS IF PLACED ON FRAMED ROOF OR FLOOR. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT.

DEFERRED SUBMITTALS:

1. PER IBC SECTION 107.3.4.1, DRAWINGS AND CALCULATIONS FOR THE DESIGN AND FABRICATION OF ITEMS THAT ARE DESIGNED BY OTHERS SHALL BEAR THE SEAL AND SIGNATURE OF THE STATE REGISTERED PROFESSIONAL ENGINEER WHO IS RESPONSIBLE FOR THE DESIGN AND SHALL BE SUBMITTED TO THE ARCHITECT AND THE BUILDING DEPARTMENT FOR REVIEW PRIOR TO FABRICATION. DEFERRED SUBMITTALS INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:
   - EXISTING WOOD TRUSS
   - COMPOSITE AND NON-COMPOSITE STEEL OPEN WEB JOIST
   - METAL STAIRS, LADDERS, AND RAILINGS
   - CURTAIN WALL, WINDOW WALL, AND OTHER GLAZING SYSTEMS
   - MEP EQUIPMENT ANCHORAGE AND SEISMIC BRACING
   - GLASS FIBER REINFORCED CONCRETE (CFRC) WALL ELEMENTS

OTHER DRAWINGS:

1. SEE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING:
   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 UNLESS NOTED AND/OR DETAILED ON THE STRUCTURAL DRAWINGS
   C. SIZE AND LOCATION OF ALL CONCRETE CURBS, EQUIPMENT PADS, PITS, FLOOR DRAINS, SLOPES, DEPRESSED AREAS, CHANGES 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. MISCELLANEOUS DRAINAGE AND WATERPROOFING
   G. ALL FIREPROOFING REQUIREMENTS INCLUDING FIREPROOFING OF STRUCTURAL STEEL
   H. DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS
2. SEE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR THE FOLLOWING:
   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.
   C. CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL OR PLUMBING FIXTURES.
   D. SIZE AND LOCATION OF MACHINE OR EQUIPMENT BASES, ANCHOR BOLTS FOR MOTOR MOUNTS.

DESIGN CRITERIA:

FLOOR LIVE LOADS:

SEE SHEET S10 FOR FLOOR LIVE LOAD MAPS.

ROOF LIVE LOADS:

SEE SHEETS S11 FOR ROOF LIVE LOAD MAPS.

ROOF SNOW LOADS: (SECTION 1603.1.3 OF THE CODE):

GROUND SNOW LOAD: P_g = 15 PSF

FLAT ROOF SNOW LOAD: P_f = 11.6 PSF

MINIMUM SNOW LOAD: P_m = 25 PSF

SNOW EXPOSURE FACTOR: C_e = 1.0

SNOW LOAD IMPORTANCE FACTOR: I_s = 1.1

SLOPE FACTOR: C_S = 1.0

THERMAL FACTOR: C_t = 1.0

RAIN LOADS:

RAIN INTENSITY: i = 1.0 in/hr

WIND DESIGN DATA:

WIND LOADS ARE IN ACCORDANCE WITH SECTION 1609 OF THE CODE.

RISK CATEGORY: III

WIND IMPORTANCE FACTOR: 1.0

BASIC WIND SPEED: V = 120 MPH (3-SECOND GUST)

WIND EXPOSURE: B

INTERNAL PRESSURE COEFFICIENT: $GC_{pi} = \pm 0.18$

COMPONENTS & CLADDING WIND PRESSURES (PSF)				
LOCATION		COMPONENT TRIBUTARY AREA (SQ FT)		
		10	50	100
ROOF	ZONE 1	11.2/-44.2	9.6/-37.3	8.9/-34.5
	ZONE 2	11.2/-58.2	9.6/-49.5	8.9/-45.8
	ZONE 3	11.2/-79.4	9.6/-45.8	8.9/-54.5
WALLS	ZONE 4	27.7/-30.1	24.8/-27.2	23.5/-25.9
	ZONE 5	27.1/-37.1	24.8/-31.4	23.5/-28.8
PARAPETS	ZONE 4	85.9/-57.8	74.4/-52.0	69.3/-49.4
	ZONE 5	107.1/-64.8	86.8/-56.2	78.0/-52.3

EARTHQUAKE DESIGN DATA:

SITE AND OCCUPANCY PARAMETERS	
SEISMIC IMPORTANCE FACTOR	I_e = 1.25
RISK CATEGORY	III
MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS	S_S = 0.193
	S_1 = 0.082
SITE CLASS	C
DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS	S_{DS} = 0.167
	S_{D1} = 0.082
SEISMIC DESIGN CATEGORY	B

BUILDING PARAMETERS	
SEISMIC FORCE RESISTING SYSTEM	INTERMEDIATE REINFORCE MASONRY SHEAR WALLS ORDINARY REINFORCED CONCRETE SHEAR WALLS
SEISMIC RESPONSE COEFFICIENTS	C_S = 0.06
RESPONSE MODIFICATION FACTOR	R = 3.5
SYSTEM OVERSTRENGTH FACTOR	Ω_0 = 2.5
DEFLECTION AMPLIFICATION FACTOR	C_d = 2.25
ANALYSIS PROCEDURE USED	EQUIVALENT LATERAL FORCE PROCEDURE
DESIGN BASE SHEAR	V = 47.6K (AREA A) V= 315K (AREA B)

PROFESSIONAL ENGINEER REGISTERED 12033 STATE OF IDAHO JUDSEN M. WILLIAMS

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PROJECT 10212200038	DATE 04-17-23
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SHEET TITLE

GENERAL STRUCTURAL NOTES

SHEET

S02

ORIGINAL SHEET SIZE 36" x 48"

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STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS AND TESTING

TABLE 1 - REQUIRED GEOTECHNICAL SPECIAL INSPECTIONS

SYSTEM OR MATERIAL	INSPECTION: IBC CODE REFERENCE	INSPECTION: CODE OR STANDARD REFERENCE	FREQUENCY (NOTE 6): CONTINUOUS	FREQUENCY (NOTE 6): PERIODIC	REMARKS
SOILS					
VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	TB 1705.6 1705.6	GEOTECHNICAL REPORT	-	X	BY THE GEOTECHNICAL ENGINEER
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.			-	X	
PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.			-	X	
VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.			X	-	
PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.			-	X	

TABLE 2 - REQUIRED STRUCTURAL SPECIAL INSPECTIONS

SYSTEM OR MATERIAL	INSPECTION: IBC CODE REFERENCE	INSPECTION: CODE OR STANDARD REFERENCE	FREQUENCY (NOTE 6): CONTINUOUS	FREQUENCY (NOTE 6): PERIODIC	REMARKS
FABRICATION					
INSPECTION IN FABRICATION SHOP	1704.2.5	-	-	-	WHERE FABRICATION OF STRUCTURAL, LOAD-BEARING OR LATERAL LOAD-RESISTING MEMBERS OR ASSEMBLIES IS BEING PERFORMED ON THE PREMISES OF A FABRICATOR'S SHOP, SPECIAL INSPECTION OF THE FABRICATED ITEMS SHALL BE AS REQUIRED BY TABLE 2 AND AS REQUIRED ELSEWHERE IN THE STATEMENT OF SPECIAL INSPECTIONS. REFERENCE SECTION 1704.2.5.1 FOR APPROVED FABRICATOR EXCEPTION.
CONCRETE					
INSPECT REINFORCEMENT, INCLUDING EMBEDMENTS AND VERIFY PLACEMENT.	TB 1705.3(1) 1705.3 1908.4	ACI 318: 20, 25.2-25.3, 26.6.1-26.6.3, 26.8, 26.13.3	-	X	TOLERANCE AND REINFORCING PLACEMENT PER ACI 318: 26.6
INSPECTION OF REINFORCING STEEL WELDING	TB 1705.3(2) 1705.3.1	ACI 318: 26.6.4 AWS D1.4: 7	-	-	EXCEPT AS NOTED OTHERWISE
MATERIAL VERIFICATION OF WELD FILLER METALS	1705.3.1		-	X	MANUFACTURER'S CERTIFIED TEST REPORTS
VERIFYING USE OF PROPER WELDING PROCEDURE SPECIFICATIONS			-	X	COPY OF WELDING PROCEDURE SPECIFICATIONS
VERIFYING WELDER QUALIFICATIONS			-	X	COPY OF QUALIFICATION CARDS
VERIFY WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706.	TB 1705.3 (2.a)	AWS D1.4 ACI 318: 26.6.4	-	X	CERTIFIED MILL TEST REPORTS
INSPECT SINGLE PASS FILLET WELDS, MAXIMUM 5/16"	TB 1705.3 (2.b)		-	X	-
INSPECT ALL OTHER WELDS	TB 1705.3 (2.c)		X	-	ALL WELDS VISUALLY INSPECTED PER AWS D1.4: 7.5
INSPECT ANCHORS CAST IN CONCRETE	WAC 51-50-1705	ACI 318 17.8.2	-	X	ALL ANCHORS SHALL BE VISUALLY INSPECTED
INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS:					
ADHESIVE ANCHORS AND ADHESIVE REINFORCING DOWELS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	TB 1705.3 (4.a)	ACI 355.4 ICC/IAPMO EVALUATION REPORT ACI 318: 17.8.2.4,...	X	-	REFER TO ANCHOR CALLOUTS FOR SUSTAINED TENSION (ST) DESIGNATION
MECHANICAL ANCHORS, ADHESIVE ANCHORS, AND ADHESIVE REINFORCING DOWELS NOT DEFINED ABOVE.	TB 1705.3 (4.b)	ACI 355.4 ICC/IAPMO EVALUATION REPORT ACI 318: 17.8.2,...	-	X (NOTE 7)	ALL ANCHORS SHALL BE VISUALLY INSPECTED
VERIFY USE OF REQUIRED DESIGN MIX.	TB 1705.3(5) 1705.3 1904 1908.2 1908.3	ACI 318: 19, 26.4.3-26.4.4, 26.13.3	-	X	-
PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	TB 1705.3(6) 1908.10	ASTM C 172 ASTM C 31 ACI 318: 26.4, 26.12	X	-	-
INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	TB 1705.3(7) 1705.3 1908.6-8	ACI 318: 26.5, 26.13.3	X	-	-
VERIFY CURING METHOD AND DURATION OF CURING FOR EACH MEMBER.	-	ACI 318: 26.13.3.3(b)	-	X	-
VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	TB 1705.3(8) 1705.3 1908.9	ACI 318: 26.5.3-26.5.5, 26.13.3	-	X	-
INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	TB 1705.3(12) 1705.3	ACI 318: 26.11.1.2(b)	-	X	-
INSPECT REINFORCING STEEL MECHANICAL COUPLERS, TERMINATORS AND FORM SAVERS	-	ICC/IAPMO EVALUATION REPORTS	-	X	VISUALLY INSPECT FOR CORRECT ASSEMBLY AND LOCATION
MASONRY - LEVEL B					
VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) AS DELIVERED TO THE PROJECT SITE FOR SELF-CONSOLIDATING GROUT.	1705.4	TMS 602: TB 4 TMS 602: 1.5 B.1.b.3	X	-	-
VERIFICATION OF f'm PRIOR TO CONSTRUCTION, EXCEPT WHERE SPECIFICALLY EXEMPTED BY THE CODE.		TMS 602: TB 4 TMS 602: 1.4 B	-	X	-
VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS		TMS 602: TB 4(1) TMS 602: 1.5	-	X	-
AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:					
PROPORTIONS OF SITE-PREPARED MORTAR	1705.4	TMS 602: TB 4(2.a) TMS 602: 2.1, 2.6 A	-	X	-
CONSTRUCTION OF MORTAR JOINTS		TMS 602: TB 4(2.b) TMS 602: 3.3 B	-	X	-
LOCATION OF REINFORCEMENT AND CONNECTORS		TMS 602:TB 4(2.d) TMS 602: 3.4	-	X	-
PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:					
GROUT SPACE	1705.4	TMS 602: TB 4(3.a) TMS 602: 3.2 D, 3.2 F	-	X	-
GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS		TMS 602: TB 4(3.b) TMS 602: 2.4, 3.4 TMS 402: 6.1	-	X	-
PLACEMENT OF REINFORCEMENT AND CONNECTORS		TMS 602: TB 4(3.c) TMS 602: 3.2 E, 3.4 TMS 402: 6.1-6.2	-	X	-
PROPORTIONS OF SITE-PREPARED GROUT		TMS 602: TB 4(3.d) TMS 602: 2.6 B	-	X	-
CONSTRUCTION OF MORTAR JOINTS		TMS 602: TB 4(3.e) TMS 602: 3.3 B	-	X	-
VERIFY DURING CONSTRUCTION:					
SIZE AND LOCATION OF STRUCTURAL ELEMENTS	1705.4	TMS 602: TB 4(4.a) TMS 602: 3.3 F	-	X	-
TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION		TMS 602: TB 4(4.b) TMS 402: 1.2.1(e), 6.1.4.3, 6.2.1	-	X	-
WELDING OF REINFORCEMENT		TMS 602: TB 4(4.c) TMS 402: 8.1.6.7.2, 9.3.3.4(c)	X	-	ALL WELDS VISUALLY INSPECTED PER AWS D1.4: 7.5 REFER TO CONCRETE FOR WELDING REQUIREMENTS
PREPARATION, CONSTRUCTION, AND PROTECTION DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (ABOVE 90°F)	1705.4	TMS 602: TB 4(4.d) TMS 602: 1.8 C, 1.8 D	-	X	-
PLACEMENT OF GROUT IS IN COMPLIANCE	1705.4	TMS 602: TB 4(4.f) TMS 602: 3.5	X	-	-
OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS	1705.4	TMS 602: TB 4(5) TMS 602: 1.4 B	-	X	-

SYSTEM OR MATERIAL	INSPECTION: IBC CODE REFERENCE	INSPECTION: CODE OR STANDARD REFERENCE	FREQUENCY (NOTE 8): OBSERVE	FREQUENCY (NOTE 8): PERFORM	REMARKS
STEEL					
INSPECTION TASKS PRIOR TO WELDING:					
WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE	1705.2	AISC 360: TB N5.4-1 AISC 360: N5.4	-	X	-
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE			-	X	-
MATERIAL IDENTIFICATION (TYPE/GRADE)			X	-	-
WELDER IDENTIFICATION SYSTEM			X	-	-
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY): JOINT PREPARATION, DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL), CLEANLINESS (CONDITION OF STEEL SURFACES), TACKING (TACK WELD QUALITY AND LOCATION), BACKING TYPE AND FIT (IF APPLICABLE)			X	-	-
CONFIGURATION AND FINISH OF ACCESS HOLES			X	-	-
FIT-UP OF FILLET WELDS: DIMENSIONS (ALIGNMENT, GAPS AT ROOT), CLEANLINESS (CONDITION OF STEEL SURFACES), TACKING (TACK WELD QUALITY AND LOCATION), BACKING TYPE AND FIT (IF APPLICABLE)			X	-	-
CHECK WELDING EQUIPMENT			-	-	FABRICATOR OR ERECTOR SHALL OBSERVE
INSPECTION TASKS DURING WELDING:					
USE OF QUALIFIED WELDERS	1705.2	AISC 360: TB N5.4-2 AISC 360: N5.4	X	-	-
CONTROL AND HANDLING OF WELDING CONSUMABLES: PACKAGING, EXPOSURE CONTROL			X	-	-
NO WELDING OVER CRACKED TACK WELDS			X	-	-
ENVIRONMENTAL CONDITIONS: WIND SPEED WITHIN LIMITS, PRECIPITATION AND TEMPERATURE			X	-	-
WPS FOLLOWED: SETTINGS ON WELDING EQUIPMENT, TRAVEL SPEED, SELECTED WELDING MATERIALS, SHIELDING GAS TYPE/FLOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.), PROPER POSITION (F, V, H, OH)			X	-	-
WELDING TECHNIQUES: INTERPASS AND FINAL CLEANING, EACH PASS WITHIN PROFILE LIMITATIONS, EACH PASS MEETS QUALITY REQUIREMENTS			X	-	-
INSPECTION TASKS AFTER WELDING:					
WELDS CLEANED	1705.2	AISC 360: TB N5.4-3 AISC 360: N5.4	X	-	-
SIZE, LENGTH AND LOCATION OF WELDS			-	X	-
WELDS MEET VISUAL ACCEPTANCE CRITERIA: CRACK PROHIBITION, WELD/BASE-METAL FUSION, CRATER CROSS SECTION, WELD PROFILES, WELD SIZE, UNDERCUT, POROSITY			-	X	-
ARC STRIKES			-	X	-
K-AREA			-	X	-
BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)			-	X	-
REPAIR ACTIVITIES			-	X	-
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER			-	X	-
INSPECTION TASKS PRIOR TO BOLTING:					
MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	1705.2	AISC 360: TB N5.6-1 AISC 360: N5.6	-	X	-
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS			X	-	-
PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)			X	-	-
PROPER BOLTING PROCEDURE FOR JOINT DETAIL			X	-	-
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS			X	-	-
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED			X	-	-
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS			X	-	-
INSPECTION TASKS DURING BOLTING:					
FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED	1705.2	AISC 360: TB N5.6-2 AISC 360: N5.6	X	-	-
JOINT BROUGHT TO SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION			X	-	-
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING			X	-	-
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES			X	-	-
INSPECTION TASKS AFTER BOLTING:					
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	1705.2	AISC 360: TB N5.6-3	-	X	-
INSPECTION OF STEEL ELEMENTS OF COMPOSITE CONSTRUCTION PRIOR TO CONCRETE PLACEMENT:					
PLACEMENT AND INSTALLATION OF STEEL DECK	1705.2	AISC 360: TB N6.1 AISC 360: N6.1	-	X	-
PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS			-	X	-
DOCUMENT ACCEPTANCE OR REJECTION OF STEEL ELEMENTS			-	X	-
INSTALLATION OF OPEN WEB STEEL JOISTS AND JOIST GIRDERS	1705.2.3 2207.1	-	-	X	SEE JOIST MANUFACTURER FOR SPECIAL INSPECTION REQUIREMENTS ASSOCIATED WITH THE DEFERRED SUBMITTAL
STEEL DECK					
INSPECTION OR EXECUTION TASKS PRIOR TO DECK PLACEMENT:					
VERIFY COMPLIANCE OF MATERIALS (DECK AND ALL DECK ACCESSORIES) WITH CONSTRUCTION DOCUMENTS, INCLUDING PROFILES, MATERIAL PROPERTIES, AND BASE METAL THICKNESS	1705.2.2	SDI QA/QC: APP. 1	-	X	-
DOCUMENT ACCEPTANCE OR REJECTION OF DECK AND DECK ACCESSORIES			-	X	-
INSPECTION OR EXECUTION TASKS AFTER DECK PLACEMENT:					
VERIFY COMPLIANCE OF DECK AND ALL DECK ACCESSORIES INSTALLATION WITH CONSTRUCTION DOCUMENTS	1705.2.2	SDI QA/QC: APP. 1	-	X	-
VERIFY DECK MATERIALS ARE REPRESENTED BY THE MILL CERTIFICATIONS THAT COMPLY WITH THE CONSTRUCTION DOCUMENTS			-	X	-
DOCUMENT ACCEPTANCE OR REJECTION OF INSTALLATION OF DECK AND DECK ACCESSORIES			-	X	-
INSPECTION OR EXECUTION TASKS PRIOR TO WELDING:					
WELDING PROCEDURE SPECIFICATIONS AVAILABLE (WPS)	1705.2.2	SDI QA/QC: APP. 1	X	-	-
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE			X	-	-
MATERIAL IDENTIFICATION (TYPE/GRADE)			X	-	-
CHECK WELDING EQUIPMENT			X	-	-
INSPECTION OR EXECUTION TASKS DURING WELDING:					
USE OF QUALIFIED WELDERS	1705.2.2	SDI QA/QC: APP. 1	X	-	-
CONTROL AND HANDLING OF WELDING CONSUMABLES			X	-	-
ENVIRONMENTAL CONDITIONS (WIND SPEED, MOISTURE, TEMPERATURE)			X	-	-
WPS FOLLOWED			X	-	-
INSPECTION OR EXECUTION TASKS AFTER WELDING:					
VERIFY SIZE AND LOCATION OF WELDS, INCLUDING SUPPORT, SIDELAP, AND PERIMETER WELDS	1705.2.2	SDI QA/QC: APP. 1	-	X	-
WELDS MEET VISUAL ACCEPTANCE CRITERIA			-	X	-
VERIFY REPAIR ACTIVITIES			-	X	-
DOCUMENT ACCEPTANCE OR REJECTION OF WELDS			-	X	-

SYSTEM OR MATERIAL	INSPECTION: IBC CODE REFERENCE	INSPECTION: CODE OR STANDARD...	FREQUENCY (NOTE 8): OBSERVE	FREQUENCY (NOTE 8): PERFORM	REMARKS
INSPECTION OR EXECUTION TASKS PRIOR TO MECHANICAL FASTENING:					
MANUFACTURER INSTALLATION INSTRUCTIONS AVAILABLE FOR MECHANICAL FASTENERS	1705.2.2	SDI QA/QC: APP. 1	X	-	-
PROPER TOOLS AVAILABLE FOR FASTENER INSTALLATION			X	-	-
PROPER STORAGE FOR MECHANICAL FASTENERS			X	-	-
INSPECTION OR EXECUTION TASKS DURING MECHANICAL FASTENING:					
FASTENERS ARE POSITIONED AS REQUIRED	1705.2.2	SDI QA/QC: APP. 1	X	-	-
FASTENERS ARE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS			X	-	-
INSPECTION OR EXECUTION TASKS AFTER MECHANICAL FASTENING:					
CHECK SPACING, TYPE, AND INSTALLATION OF SUPPORT FASTENERS, SIDELAP FASTENERS, AND PERIMETER FASTENERS	1705.2.2	SDI QA/QC: APP. 1	-	X	-
VERIFY REPAIR ACTIVITIES			-	X	-
DOCUMENT ACCEPTANCE OR REJECTION OF MECHANICAL FASTENERS			-	X	-

SYSTEM OR MATERIAL	INSPECTION: IBC CODE REFERENCE	INSPECTION: CODE OR STANDARD REFERENCE	FREQUENCY (NOTE 6): CONTINUOUS	FREQUENCY (NOTE 6): PERIODIC	REMARKS
COLD-FORMED STEEL FRAMING					
MATERIAL VERIFICATION OF WELDING CONSUMABLES	-	AISI S100: APP. A E2a	-	X	MANUFACTURER'S CERTIFIED TEST REPORTS
VERIFYING USE OF PROPER WPS			-	X	COPY OF WELDING PROCEDURE SPECIFICATIONS
VERIFYING WELDER QUALIFICATIONS			-	X	COPY OF QUALIFICATION CARDS
WELDED FRAMING CONNECTIONS	-	AWS D1.3: 6	-	X	ALL WELDS VISUALLY INSPECTED PER AWS D1.3: 6.1

TABLE 2A - REQUIRED STRUCTURAL SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE

SYSTEM OR MATERIAL	INSPECTION: IBC CODE REFERENCE	INSPECTION: CODE OR STANDARD REFERENCE	FREQUENCY (NOTE 8): OBSERVE	FREQUENCY (NOTE 8): PERFORM	REMARKS
STEEL					
VISUAL INSPECTION TASKS AFTER WELDING:					
PLACEMENT OF REINFORCING OR CONTOURING FILLET WELDS (IF REQUIRED)	1705.12.1	AISC 341: TB J6-3	-	X	-
OTHER INSPECTION TASKS:					
RBS REQUIREMENTS IF APPLICABLE, CONTOUR AND FINISH, DIMENSIONAL TOLERANCES	1705.12.1	AISC 341: TB J8-1	-	X	-
PROTECTED ZONE, NO HOLES AND UNAPPROVED ATTACHMENTS MADE BY FABRICATOR OR ERECTOR, AS APPLICABLE			-	X	-
INSPECTION OF COMPOSITE STRUCTURES PRIOR TO CONCRETE PLACEMENT:					
MATERIAL IDENTIFICATION OF REINFORCING STEEL (TYPE/GRADE)	1705.12.1	AISC 341: TB J9-1	X	-	-
DETERMINATION OF CARBON EQUIVALENT FOR REINFORCING STEEL OTHER THAN ASTM A 706			X	-	-
PROPER REINFORCING STEEL SIZE, SPACING AND ORIENTATION			X	-	-
REINFORCING STEEL HAS NOT BEEN REBENT IN THE FIELD			X	-	-
REINFORCING STEEL HAS BEEN TIED AND SUPPORTED AS REQUIRED			X	-	-
REQUIRED REINFORCING STEEL CLEARANCES HAVE BEEN PROVIDED			X	-	-
COMPOSITE MEMBER HAS REQUIRED SIZE			X	-	-
INSPECTION OF COMPOSITE STRUCTURES DURING CONCRETE PLACEMENT:					
CONCRETE: MATERIAL IDENTIFICATION (MIX DESIGN, COMPRESSIVE STRENGTH, MAXIMUM LARGE AGGREGATE SIZE, MAXIMUM SLUMP)	1705.12.1	AISC 341: TB J9-2	X	-	-
LIMITS ON WATER ADDED AT THE TRUCK OR PUMP			X	-	-
PROPER PLACEMENT TECHNIQUES TO LIMIT SEGREGATION			X	-	-
INSPECTION OF COMPOSITE STRUCTURES AFTER CONCRETE PLACEMENT:					
ACHIEVEMENT OF MINIMUM SPECIFIED CONCRETE COMPRESSIVE STRENGTH AT SPECIFIED AGE	1705.12.1	AISC 341: TB J9-3	-	-	-

TABLE 2B - REQUIRED STRUCTURAL SPECIAL INSPECTIONS FOR WIND RESISTANCE

SYSTEM OR MATERIAL	INSPECTION: IBC CODE REFERENCE	INSPECTION: CODE OR STANDARD REFERENCE	FREQUENCY (NOTE 6): CONTINUOUS	FREQUENCY (NOTE 6): PERIODIC	REMARKS
GENERAL					
INSPECT FASTENING OF ROOF DECK, ROOF FRAMING CONNECTIONS, WALL CONNECTIONS TO ROOF AND FLOOR DIAPHRAGMS AND FRAMING.	1705.11.3	-	-	X	-

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SHEET TITLE
STATEMENT OF SPECIAL INSPECTIONS

SHEET
S04

ORIGINAL SHEET SIZE 36" x 48"

4/12/2023 5:11:17 PM

STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS AND TESTING - CONTINUED

TABLE 3 - REQUIRED STRUCTURAL TESTING

SYSTEM OR MATERIAL	TESTING: IBC CODE REFERENCE	TESTING: CODE OR STANDARD...	FREQUENCY: CONTINUOUS	FREQUENCY: PERIODIC	REMARKS
GEOTECHNICAL					
FILL IN-PLACE DENSITY OR PREPARED SUBGRADE DENSITY	1705.6	VARIES; MINIMUM PER IBC APPENDIX J107.5	-	X	BY THE GEOTECHNICAL ENGINEER
MATERIAL VERIFICATION		VARIES; CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS	-	X	BY THE GEOTECHNICAL ENGINEER
CONCRETE					
COMPOSITE SAMPLES	1903 1705.3	ASTM C 172 ACI 318: 26.12	ONE SAMPLE FOR EA 150 CY NOR LESS THAN 5,000 SQ FT OF SLABS AND WALLS, ONE SET PER DAY MIN		OBTAIN WHEN FRESH CONCRETE IS PLACED FOR EACH MIX DESIGN USED
CONCRETE STRENGTH, UNO		ASTM C 39 ACI 318: 26.12	EACH SAMPLE: 1 CYL - 7 DAYS 3 CYL - TEST AGE 1 CYL - HOLD		(NOTE 9) REFER TO GENERAL NOTES FOR TEST AGE. FOR 6 BY 12-INCH CYLINDERS, 2 CYLINDERS AT TEST AGE IS PERMITTED. CYL = CYLINDER
CONCRETE SLUMP		ASTM C 143	ONE TEST PER COMPOSITE SAMPLE		AT POINT OF PLACEMENT
CONCRETE AIR CONTENT		ASTM C 231	ONE TEST PER COMPOSITE SAMPLE		MIN ONE PER DAY
CONCRETE TEMPERATURE		ASTM C 1064	ONE TEST PER COMPOSITE SAMPLE		ONE TEST PER HOUR WHEN AIR TEMP IS BELOW 40 DEG F OR ABOVE 80 DEG F
MASONRY					
UNIT STRENGTH METHOD	2105 1705.4	ASTM C 62 ASTM C 216 ASTM C 652 ASTM C 476 ASTM C 55 ASTM C 90 TMS 602: 1.4 B.2	-		-
PRISM TEST METHOD	2105 1705.4	ASTM C 1314 TMS 602: 1.4 B.3	TESTING EVERY 5,000 SQ FT		-
STEEL					
RADIOGRAPHIC (RT) MAGNETIC PARTICLE (MT) AND ULTRASONIC (UT) TESTING OF WELDS	AISC 360 N5.5	RT- AWS D1.1: 6.16 MT- AWS D1.1: 6.14.4 UT- AWS D1.1: 6....	PER DRAWINGS		ALL CJP WELDS IN MATERIALS 5/16" OR GREATER REQUIRE UT TESTING
PRE-CONSTRUCTION TESTING OF WELDED STUDS	1705.2.2	AWS D1.1: 7.7.1	EACH SIZE AND TYPE OF STUD EACH SHIFT		-
PRE-INSTALLATION TESTING OF WELDED STUDS WELDED THROUGH DECKING	1705.2.2	AWS D1.1: 7.6	EACH STUD SIZE AND DECK GAUGE COMBINATION		-
PRE-INSTALLATION VERIFICATION OF PRETENSIONED HIGH STRENGTH BOLTS	1705.2.1 AISC 360: TB N5.6-1	RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS, SECTION 7	EACH COMBINATION OF DIAMETER, LENGTH, GRADE, AND LOT TO BE USED IN THE WORK		-
STEEL					
MT OF K-AREA OF ROLLED WIDE FLANGE COLUMN WEBS ADJACENT TO DOUBLER/CONTINUITY PLATE WELDS	1705.13.1	AISC 341: J6.2a AWS D1.1: 6.14.4	EACH PLATE LOCATION		-
MAGNETIC PARTICLE (MT) AND ULTRASONIC (UT) TESTING OF COMPLETE JOINT PENETRATION GROOVE (CJP) WELDS IN MATERIALS 5/16" THICK AND GREATER		AISC 341: J6.2b MT - AWS D1.1: 6.14.4 UT - AWS D1.1: 6.13 & 6.14.3	UT 100% OF WELDS MT 25% OF WELDS		REFER TO DRAWINGS FOR LOCATIONS
UT OF BASE METAL THICKER THAN 1-1/2" SUBJECT TO THROUGH-THICKNESS WELD SHRINKAGE STRAINS		AISC 341: J6.2c AWS D1.1: 6.13 & 6.14.3	BEHIND AND ADJACENT TO EACH WELD		-
* MT OF THERMALLY CUT SURFACES OF BEAM COPES AND ACCESS HOLES AT WELDED SPLICES AND CONNECTIONS WHEN THE FLANGE THICKNESS EXCEEDS 1-1/2" FOR ROLLED SHAPES OR THE WEB THICKNESS EXCEEDS 1-1/2" FOR BUILT-UP SHAPES		AISC 341: J6.2d AWS D1.1: 6.14.4	EACH LOCATION		-
* MT OF THE WELD AND ADJACENT AREA IN A REDUCED BEAM SECTION (RBS) PLASTIC HINGE REGION REPAIRED BY WELDING		AISC 341: J6.2e AWS D1.1: 6.14.4	EACH LOCATION		-
MT OF THE ENDS OF FLANGE WELDS FROM WHICH WELD TABS HAVE BEEN REMOVED		AISC 341: J6.2f AWS D1.1: 6.14.4	EACH LOCATION		-

TABLE N1 - REQUIRED ARCHITECTURAL SPECIAL INSPECTIONS

SYSTEM OR MATERIAL	TESTING: IBC CODE REFERENCE	TESTING: CODE OR STANDARD REFERENCE	FREQUENCY: CONTINUOUS	FREQUENCY: PERIODIC	REMARKS
EXTERIOR INSULATION AND FINISH SYSTEMS					
INSTALLATION	1705.16	-	X	-	-
FIRE-RESISTANT PENETRATIONS AND JOINTS					
INSTALLATION	1705.17	-	-	X	-
SMOKE CONTROL SYSTEMS					
INSTALLATION	1705.18	-	-	X	RECORD DEVICE LOCATION(S)

* TABLE N2 - REQUIRED NONSTRUCTURAL SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE

SYSTEM OR MATERIAL	TESTING: IBC CODE REFERENCE	TESTING: CODE OR STANDARD REFERENCE	FREQUENCY: CONTINUOUS	FREQUENCY: PERIODIC	REMARKS
ARCHITECTURAL					
INSTALLATION AND ANCHORAGE OF ACCESS FLOORS	1704.3.2 1705.12.5.1	-	-	X	REFERENCE ARCHITECTURAL FOR INFORMATION
INSTALLATION AND ANCHORAGE OF CLADDING AND INTERIOR/EXTERIOR VENEER WEIGHING MORE THAN 5 PSF IN BUILDINGS MORE THAN 30 FEET IN HEIGHT	1704.3.2 1705.12.5	-	-	X	
ERECTION AND FASTENING OF INTERIOR NONBEARING WALLS WEIGHING MORE THAN 15 PSF IN BUILDINGS MORE THAN 30 FEET IN HEIGHT		-	-	X	
ERECTION AND FASTENING OF EXTERIOR NONBEARING WALLS IN BUILDINGS MORE THAN 30 FEET IN HEIGHT		-	-	X	
INSTALLATION AND ANCHORAGE OF STORAGE RACKS	1704.3.2 1705.12.7	ASCE 7: 15.5.3	-	X	FOR RACKS OVER 8 FEET IN HEIGHT
INSTALLATION OF OTHER SEISMIC SUPPORTS FOR DESIGNATED ARCHITECTURAL SYSTEMS AND THEIR COMPONENTS	1704.3.2 1705.12.5	-	-	X	REFERENCE ARCHITECTURAL FOR INFORMATION

SYSTEM OR MATERIAL	TESTING: IBC CODE REFERENCE	TESTING: CODE OR STANDARD...	FREQUENCY: CONTINUOUS	FREQUENCY: PERIODIC	REMARKS
ELECTRICAL					
ANCHORAGE OF ELECTRICAL EQUIPMENT FOR EMERGENCY OR STANDBY POWER SYSTEMS	1704.3.2 1705.12.6	-	-	X	SEISMIC RESTRAINT OF ELECTRICAL COMPONENTS IS A CONTRACTOR RESPONSIBILITY AND IS LISTED HERE FOR INFORMATION ONLY. REFERENCE ELECTRICAL FOR FURTHER INFORMATION.
ANCHORAGE OF ALL ELECTRICAL EQUIPMENT IN SEISMIC DESIGN CATEGORY E OR F ONLY		-	-	X	
INSTALLATION OF VIBRATION ISOLATION SYSTEMS IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E OR F WHERE THE CONSTRUCTION DOCUMENTS REQUIRE A NOMINAL CLEARANCE OF 0.25 INCHES OR LESS BETWEEN THE EQUIPMENT SUPPORT FRAME AND RESTRAINT	1705.12.6 1705.12.8	-	-	X	
INSTALLATION OF OTHER SEISMIC SUPPORTS FOR DESIGNATED ELECTRICAL SYSTEMS AND THEIR COMPONENTS	1705.12.6	-	-	X	
PROCESS MECHANICAL AND PLUMBING					
INSTALLATION AND ANCHORAGE OF PIPING SYSTEMS DESIGNED TO CARRY HAZARDOUS MATERIALS AND ASSOCIATED MECHANICAL UNITS	1704.3.2 1705.12.6	-	-	X	SEISMIC RESTRAINT OF PROCESS MECHANICAL COMPONENTS IS A CONTRACTOR RESPONSIBILITY AND IS LISTED HERE FOR INFORMATION ONLY. REFERENCE MECHANICAL FOR FURTHER INFORMATION.
INSTALLATION OF EQUIPMENT USING COMBUSTIBLE ENERGY SOURCES	1705.12.4	-	-	X	
INSTALLATION OF OTHER SEISMIC SUPPORTS FOR DESIGNATED MECHANICAL SYSTEMS AND THEIR COMPONENTS		-	-	X	
BUILDING MECHANICAL AND PLUMBING					
INSTALLATION AND ANCHORAGE OF HVAC DUCTWORK DESIGNED TO CARRY HAZARDOUS MATERIALS	1704.3.2 1705.12.6	-	-	X	SEISMIC RESTRAINT OF BUILDING MECHANICAL COMPONENTS IS A CONTRACTOR RESPONSIBILITY AND IS LISTED HERE FOR INFORMATION ONLY. REFERENCE MECHANICAL FOR FURTHER INFORMATION.
INSTALLATION OF FIRE PROTECTION SPRINKLER SYSTEM	1705.12	-	-	X	
INSTALLATION OF EQUIPMENT USING COMBUSTIBLE ENERGY SOURCES	1705.12.4	-	-	X	
INSTALLATION OF OTHER SEISMIC SUPPORTS FOR DESIGNATED MECHANICAL SYSTEMS AND THEIR COMPONENTS		-	-	X	
INSTALLATION OF VIBRATION ISOLATION SYSTEMS IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E OR F WHERE THE CONSTRUCTION DOCUMENTS REQUIRE A NOMINAL CLEARANCE OF 0.25 INCHES OR LESS BETWEEN THE EQUIPMENT SUPPORT FRAME AND RESTRAINT	1705.12.6	-	-	X	

TABLE N3 - NONSTRUCTURAL TESTING

SYSTEM OR MATERIAL	TESTING: IBC CODE REFERENCE	TESTING: CODE OR STANDARD REFERENCE	FREQUENCY	REMARKS
SPRAYED FIRE-RESISTANT MATERIALS				
THICKNESS AT FLOOR, ROOF, AND WALL ASSEMBLIES	1705.14.4	ASTM E 605	NOT LESS THAN (4) MEASUREMENTS FOR EACH 1000 SQ FT OF SPRAYED AREA EACH FLOOR LEVEL	REFERENCE ARCHITECTURAL FOR ADDITIONAL INFORMATION
THICKNESS AT STRUCTURAL FRAMING MEMBERS			TEST A MINIMUM OF 25% OF THE STRUCTURAL MEMBERS AT EACH LEVEL	
DENSITY	1705.14.5		-	
BOND STRENGTH AT FLOOR, ROOF, AND WALL ASSEMBLIES	1705.14.6.1	ASTM E 736	EACH 2500 SQ FT OF SPRAYED AREA EACH FLOOR LEVEL	REFERENCE ARCHITECTURAL FOR ADDITIONAL INFORMATION
BOND STRENGTH AT STRUCTURAL FRAMING MEMBERS	1705.14.6.2		EACH TYPE OF STRUCTURAL MEMBER FOR EACH 2500 SQ FT OF FLOOR AREA EACH FLOOR LEVEL	
INTUMESCENT FIRE-RESISTANT COATINGS				
THICKNESS	1705.15	AWCI TECHNICAL MANUAL 12-B ASTM D1182	-	REFERENCE ARCHITECTURAL FOR ADDITIONAL INFORMATION
SMOKE CONTROL SYSTEMS				
LEAKAGE, PRESSURE DIFFERENTIAL, FLOW MEASUREMENT AND DETECTION AND CONTROL VERIFICATION	1705.18	-	DETERMINED BY JURISDICTION	-

TABLE N4 - REQUIRED NONSTRUCTURAL TESTING FOR SEISMIC RESISTANCE

SYSTEM OR MATERIAL	TESTING: IBC CODE REFERENCE	TESTING: CODE OR STANDARD REFERENCE	FREQUENCY		REMARKS
MECHANICAL AND ELECTRICAL					
COMPONENT TESTING INCLUDING MOUNTING SYSTEMS OR ANCHORAGE IF CERTIFICATES OF COMPLIANCE ARE NOT AVAILABLE	1705.13 1705.13.2 1705.13.3	ASCE 7: 13.2	-	X	SEISMIC RESTRAINT OF MECHANICAL AND ELECTRICAL COMPONENTS IS A CONTRACTOR RESPONSIBILITY AND IS LISTED HERE FOR INFORMATION ONLY. REFERENCE MECHANICAL AND ELECTRICAL FOR FURTHER INFORMATION.

STATEMENT OF SPECIAL INSPECTION AND TESTING NOTES:

1. SPECIAL INSPECTIONS SHALL CONFORM TO CHAPTER 17 OF THE IBC AND THE REFERENCE CODES AND STANDARDS LISTED IN NOTE 2. REFER TO TABLES 1 AND 2 FOR SPECIAL INSPECTION AND TABLES 3 AND 4 FOR TESTING REQUIREMENTS.

2. REFERENCE CODES AND STANDARDS ARE THOSE REFERENCED IN CHAPTER 35 OF THE CODE.

3. SPECIAL INSPECTIONS AND ASSOCIATED TESTING SHALL BE PERFORMED BY AN APPROVED QUALIFIED TESTING AND INSPECTING AGENCY MEETING THE REQUIREMENTS OF ASTM E 329 (MATERIALS), ASTM D 3740 (SOILS), ASTM C 1077 (CONCRETE), AND ASTM E 543 (NON-DESTRUCTIVE). SPECIAL INSPECTORS SHALL BE CERTIFIED BY THE BUILDING OFFICIAL. WELDING INSPECTORS SHALL BE QUALIFIED PER SECTION 6.1.4.1.1 OF AWS D1.1.

4. THE SPECIAL INSPECTOR SHALL OBSERVE THE INDICATED WORK FOR COMPLIANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION AND NOTED IN THE INSPECTION REPORTS. ISSUES REQUIRING IMMEDIATE CORRECTIVE ACTIONS OR ENGINEERING INPUT ARE TO BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY UPON DISCOVERY.

5. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS FOR EACH INSPECTION TO THE BUILDING OFFICIAL, **STRUCTURAL** **ENGINEER** **ARCHITECT**, CONTRACTOR, AND OWNER. THE TESTING AND INSPECTING AGENCY SHALL SUBMIT A FINAL REPORT STATING THAT THE WORK REQUIRING SPECIAL INSPECTION WAS INSPECTED AND IS IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS AND THAT ALL DISCREPANCIES NOTED IN THE INSPECTION REPORTS HAVE BEEN CORRECTED.

6. CONTINUOUS SPECIAL INSPECTION: SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS PRESENT WHEN AND WHERE THE WORK TO BE INSPECTED IS BEING PERFORMED. PERIODIC SPECIAL INSPECTION: SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS INTERMITTENTLY PRESENT WHERE THE WORK TO BE INSPECTED HAS BEEN OR IS BEING PERFORMED.

7. WHERE PERIODIC INSPECTION IS ALLOWED IN ACCORDANCE WITH THE ANCHOR ICC/IAPMO EVALUATION REPORT, INSPECTIONS SHALL BE AS FOLLOWS:
   - FOR ALL ANCHORS, PRIOR TO CONCEALMENT, VERIFY: ANCHOR TYPE, ANCHOR DIMENSIONS, ANCHOR SPACING AND EDGE DISTANCE.
   - FOR EACH ANCHOR TYPE AND SIZE, INSPECTOR SHALL BE ONSITE TO CONTINUOUSLY INSPECT A MINIMUM OF THE FIRST 10 ANCHORS INSTALLED BY EACH INSTALLER FOR CONFORMANCE WITH ICC/IAPMO EVALUATION REPORT. PROVIDED ALL ANCHORS ARE INSTALLED CORRECTLY PER MANUFACTURER'S INSTRUCTIONS, PROVIDE PERIODIC INSPECTION ON A MINIMUM OF 10% OF THE NEXT 1000 ANCHORS BY EACH INSTALLER AND A MINIMUM OF 5% OF THE REMAINING ANCHORS BY EACH INSTALLER. INSPECTIONS SHALL OCCUR A MINIMUM OF ONCE PER WEEK AT A RANDOM TIME WHILE ANCHOR INSTALLATION IS ONGOING. ANY NON-COMPLIANCE ISSUES SHALL RESET THE INSPECTION REQUIREMENTS TO TEN (10) CONTINUOUS INSPECTIONS. NON-COMPLIANT ANCHORS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD FOR REVIEW AND SHALL BE BROUGHT INTO COMPLIANCE BY EITHER TESTING OR RE-INSTALLATION.
   - INSPECTION REPORTS SHALL IDENTIFY NAMES OF INSTALLERS.
   - SPECIAL INSPECTOR SHALL PROVIDE DOCUMENTATION AT THE END OF ANCHOR INSTALLATIONS STATING THAT THE MINIMUM NUMBER OF ANCHORS WERE INSPECTED.

8. OBSERVE: OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.
   PERFORM: PERFORM THESE TASKS FOR EACH ELEMENT.

9. INDICATED CONCRETE TESTING MEETS MINIMUM REQUIREMENTS FOR STRUCTURAL TESTING TO BE PROVIDED BY THE APPROVED QUALIFIED TESTING AND INSPECTING AGENCY. ADDITIONAL TESTING FOR CONSTRUCTION CONSIDERATIONS ARE NOT INDICATED AND SHALL BE DETERMINED BY THE CONTRACTOR AND PROVIDED AT CONTRACTOR'S EXPENSE.

PROFESSIONAL ENGINEER REGISTERED 12033 STATE OF IDAHO JUDSEN M. WILLIAMS

JOSEPH HUFF, P.E.N, P.E.PE ARCHITECT
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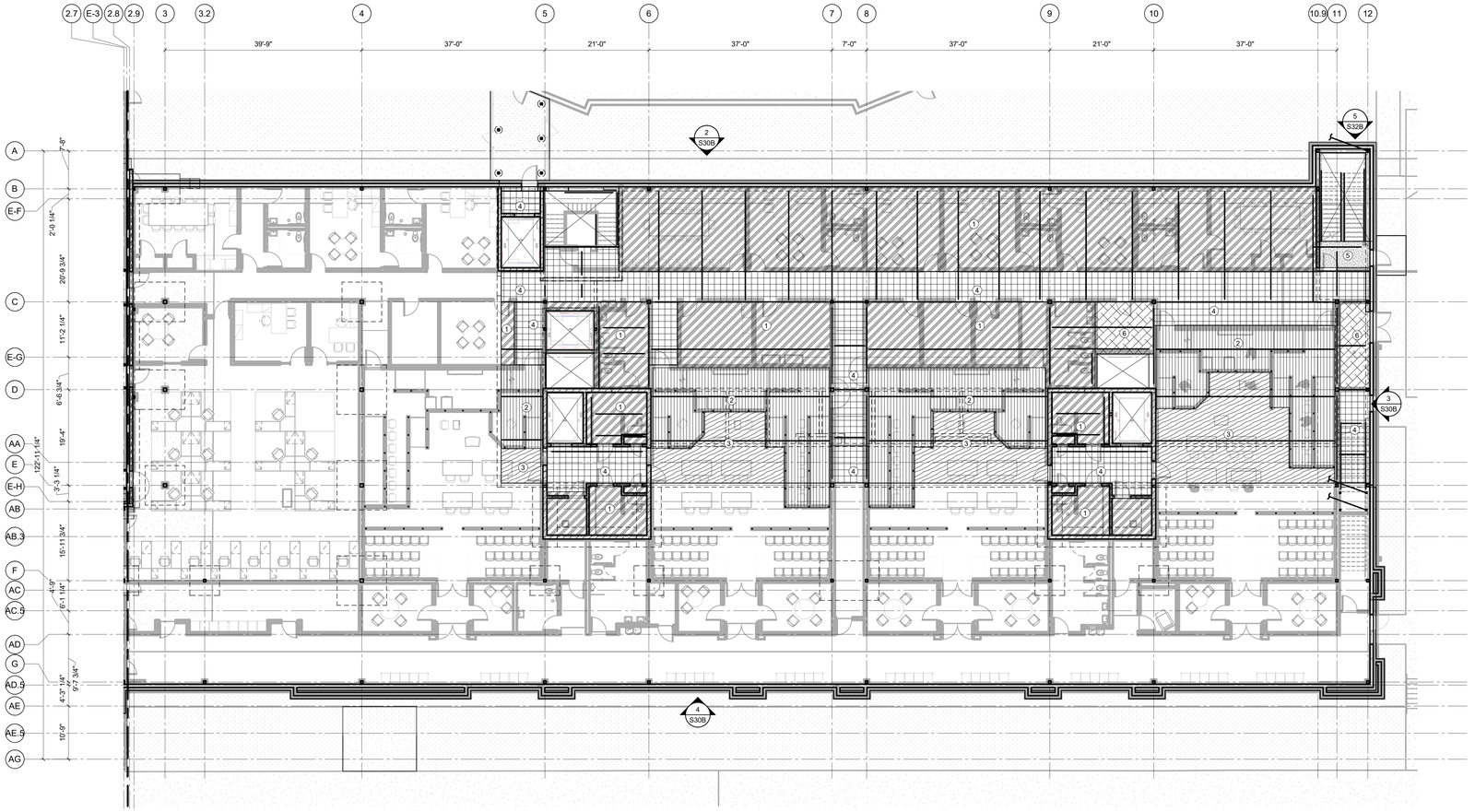
SHEET TITLE
STATEMENT OF SPECIAL INSPECTIONS

SHEET
S05

ORIGINAL SHEET SIZE 36" x 48"

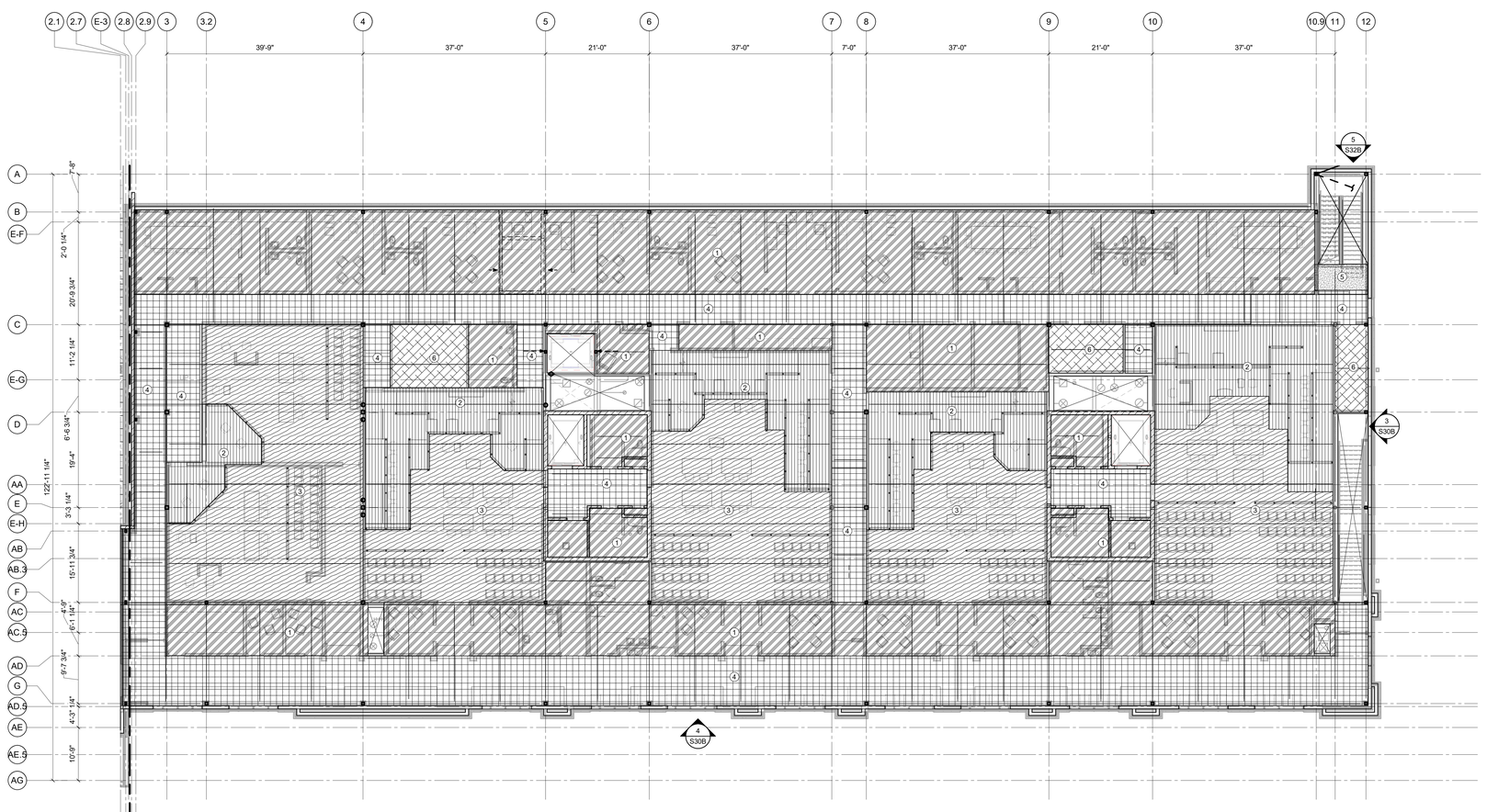


1 S10 LOADING PLAN FIRST FLOOR PLAN- AREA B

1" = 10'-0"

FLOOR LOADING SCHEDULE						
PATTERN	TYPE	DESCRIPTION OF AREA	DEAD LOAD[1]			LIVE LOAD (R=REDUCIBLE) (NR=NON-REDUCIBLE)
			SLAB/DECK WEIGHT	SUPERIMPOSED	TOTAL[2]	
	①	TYPICAL OFFICE	51.3 PSF	19.3 PSF	70.6 PSF	65 PSF (R)
	②	RAISED COURTROOM	51.3 PSF	38.3 PSF	89.6 PSF	100 PSF (NR)
	③	COURTROOM	51.3 PSF	29.3 PSF	80.6 PSF	100 PSF (NR)
	④	CORRIDOR	51.3 PSF	19.3 PSF	70.6 PSF	100 PSF (R)
	⑤	CORRIDOR W/ RAMP	51.3 PSF	94.3 PSF	145.6 PSF	100 PSF (R)
	⑥	LIGHT STORAGE	51.3 PSF	19.3 PSF	70.6 PSF	125 PSF (NR)

NOTES:
1. DEAD LOADS INCLUDE SLAB/ DECK WEIGHT AND SUPER IMPOSED DEAD LOADS ONLY. WF BEAM AND JOIST WEIGHTS ARE NOT INCLUDED.
2. TOTAL LOAD IS THE SUM OF SLAB/ DECK WEIGHT AND UNFACTORED SUPER IMPOSED DEAD LOAD.
3. REFER TO PLAN SHEETS FOR AXIAL LOADS.
4. REFER TO MECHANICAL DRAWINGS FOR MEP UNIT WEIGHTS.



2 S10 LOADING PLAN SECOND FLOOR PLAN - AREA B

1" = 10'-0"

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SHEET TITLE

LOADING PLAN

SHEET

S10

ORIGINAL SHEET SIZE
36" x 48"

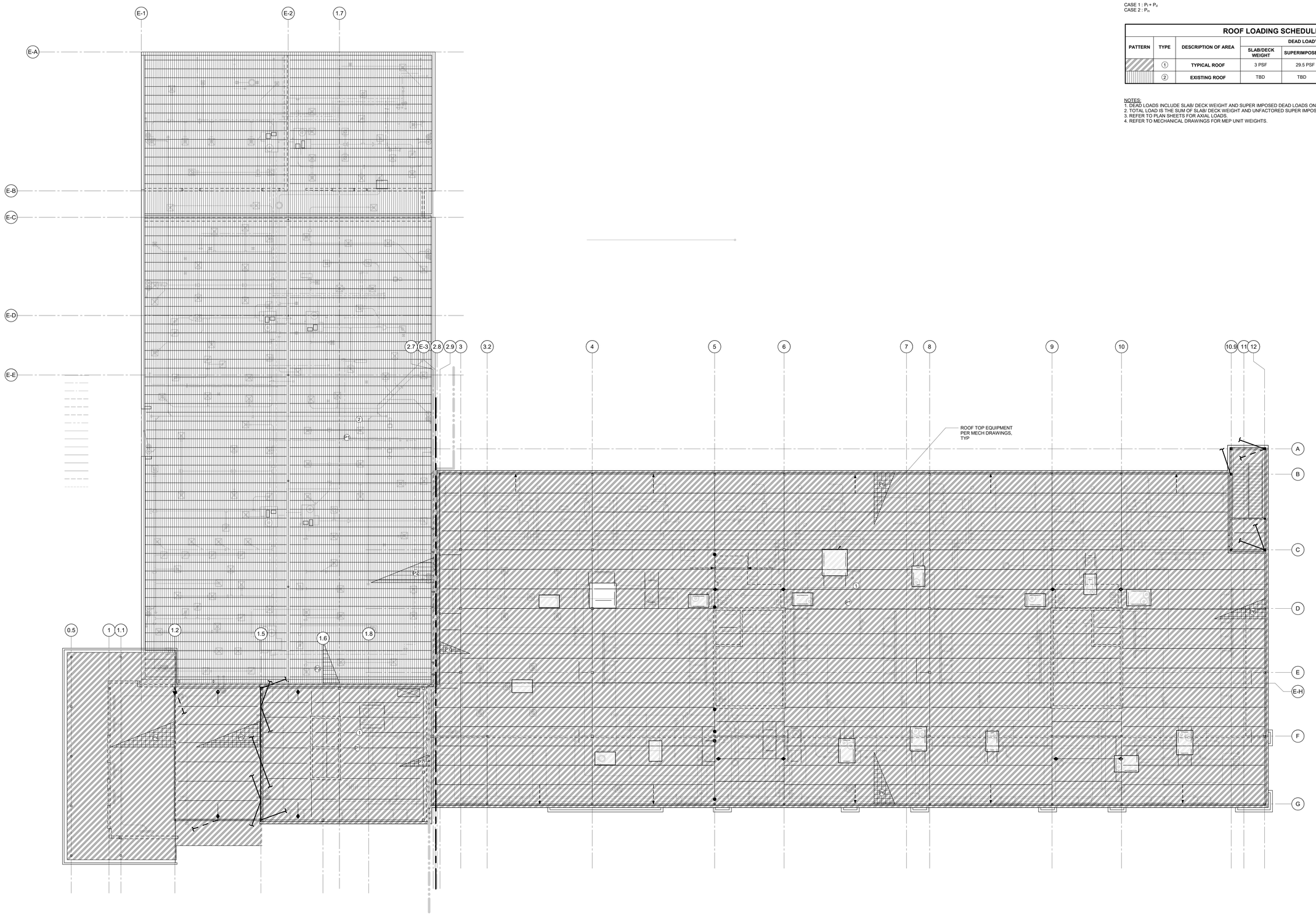
SNOW LOADING SCHEDULE				
P	Pm	Pf	Pd	W
P1	25 PSF	11.6 PSF	-	-
P2	25 PSF	11.6 PSF	76.5 PSF	19.2 FT
P3	25 PSF	11.6 PSF	50.5 PSF	12.7 FT
P4	25 PSF	11.6 PSF	86.4 PSF	21.7 FT
P5	25 PSF	11.6 PSF	83.2 PSF	20.9 FT
P6	25 PSF	11.6 PSF	62.4 PSF	15.6 FT
P7	25 PSF	11.6 PSF	35.9 PSF	9 FT

NOTES:
1. COMBINE FLAT ROOF SNOW LOAD (P_f) AND DRIFT LOAD (P_d), AS INDICATED ON PLAN SNOW LOAD SHALL BE APPLIED TO ALL ROOF JOIST. MINIMUM FLAT ROOF SNOW LOAD (P_m) IS A SEPARATE LOAD CASE AND SHALL BE APPLIED AS REQUIRED BY ASCE 7-16, SECTION 7.3.4.

CASE 1 : $P_f + P_d$
CASE 2 : P_m

ROOF LOADING SCHEDULE						
PATTERN	TYPE	DESCRIPTION OF AREA	DEAD LOAD[1]			LIVE LOAD (R=REDUCIBLE) (NR=NON-REDUCIBLE)
			SLAB/DECK WEIGHT	SUPERIMPOSED	TOTAL[2]	
	1	TYPICAL ROOF	3 PSF	29.5 PSF	32.5 PSF	20 PSF (R)
	2	EXISTING ROOF	TBD	TBD	TBD	TBD

NOTES:
1. DEAD LOADS INCLUDE SLAB/ DECK WEIGHT AND SUPER IMPOSED DEAD LOADS ONLY. WF BEAM AND JOIST WEIGHTS ARE NOT INCLUDED.
2. TOTAL LOAD IS THE SUM OF SLAB/ DECK WEIGHT AND UNFACTORED SUPER IMPOSED DEAD LOAD.
3. REFER TO PLAN SHEETS FOR AXIAL LOADS.
4. REFER TO MECHANICAL DRAWINGS FOR MEP UNIT WEIGHTS.



1 / S11 LOADING PLAN - ROOF PLAN
1" = 10'-0"

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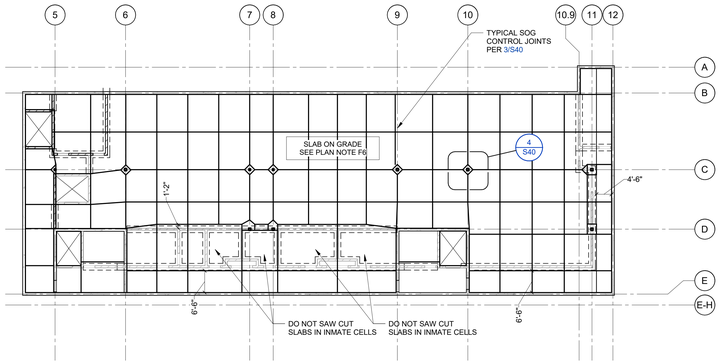
SHEET TITLE
ROOF LOADING PLAN

SHEET
S11

ORIGINAL SHEET SIZE
36" x 48"



2 SLAB PLAN - SAWCUT PLAN
S20B
1/16" = 1'-0"

FOOTING SCHEDULE

TYPE MARK	DIMENSIONS			REINFORCING	TYPE COMMENTS
	LENGTH	WIDTH	DEPTH		
F4.0	4'-0"	4'-0"	1'-3"	(5) #5 EW	-
F6.0	6'-0"	6'-0"	1'-8"	(7) #7 EW	-
F8.0	8'-0"	8'-0"	2'-0"	(8) #7 EW	-
F10.0	10'-0"	10'-0"	2'-0"	(10) #7 EW	-

CONTINUOUS FOOTING SCHEDULE

TYPE MARK	DIMENSIONS		REINFORCING	TYPE COMMENTS
	WIDTH	DEPTH		
LF4.0	4'-0"	2'-0"	(6) #7 LONG W/ #7 @ 12" OC TRANS	REINFORCING TOP & BOT
LF5.0	5'-0"	2'-6"	(4) #7 TOP LONG W/ #7 @ 12" OC TRANS & (7) #8 BOT LONG W/ #7 @ 12" OC TRANS	REINFORCING TOP & BOT
MF1.0	PER PLAN	1'-8"	#7 BOT @ 12" OC EW	-
MF2.0	PER PLAN	2'-0"	#7 @ 12" OC EW	REINFORCING TOP & BOT
MF3.0	PER PLAN	2'-0"	#5 TOP & #7 BOT @ 12" OC EW	TOP BAR LONG ONLY
WF2.0	2'-0"	1'-0"	(2) #5 BOT LONG W/ #5 TRANS @ 12" OC	-
WF3.0	3'-0"	1'-3"	(4) #5 BOT LONG W/ #5 TRANS @ 9" OC	-
WF4.0	4'-0"	1'-3"	(2) #5 TOP & (5) #5 BOT LONG W/ #5 TRANS @ 12" OC	-

GENERAL PLAN NOTES:

G1 REFERENCE DRAWINGS:

S0X - GENERAL STRUCTURAL NOTES AND SYMBOLS
S1X - LOAD MAPS
S4X - TYPICAL CONCRETE DETAILS
S4S - TYPICAL CMU DETAILS
S5X - TYPICAL STEEL DETAILS
S6X - TYPICAL COLD-FORMED STEEL DETAIL

G2 SEE SHEET S01 FOR TYPICAL SYMBOLS

G3 FOR MSL ELEVATIONS, REFER TO CIVIL DRAWINGS

FOUNDATION PLAN NOTES:

F1 GEOTECHNICAL ENGINEER SHALL OBSERVE THE FOUNDATION EXCAVATIONS PRIOR TO PLACEMENT OF THE REINFORCING STEEL

F2 COORDINATE WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ALL UNDER-SLAB UTILITY LOCATIONS, TRENCHES, AND FLOOR SINKS. ALL UTILITIES THAT CROSS FOUNDATIONS SHALL BE PLACED BELOW FOOTINGS PER 1/S41

F3 F10.0 (99'-0") INDICATES FOOTING TYPE PER SCHEDULE; INDICATES TOP OF FOOTING ELEVATION.

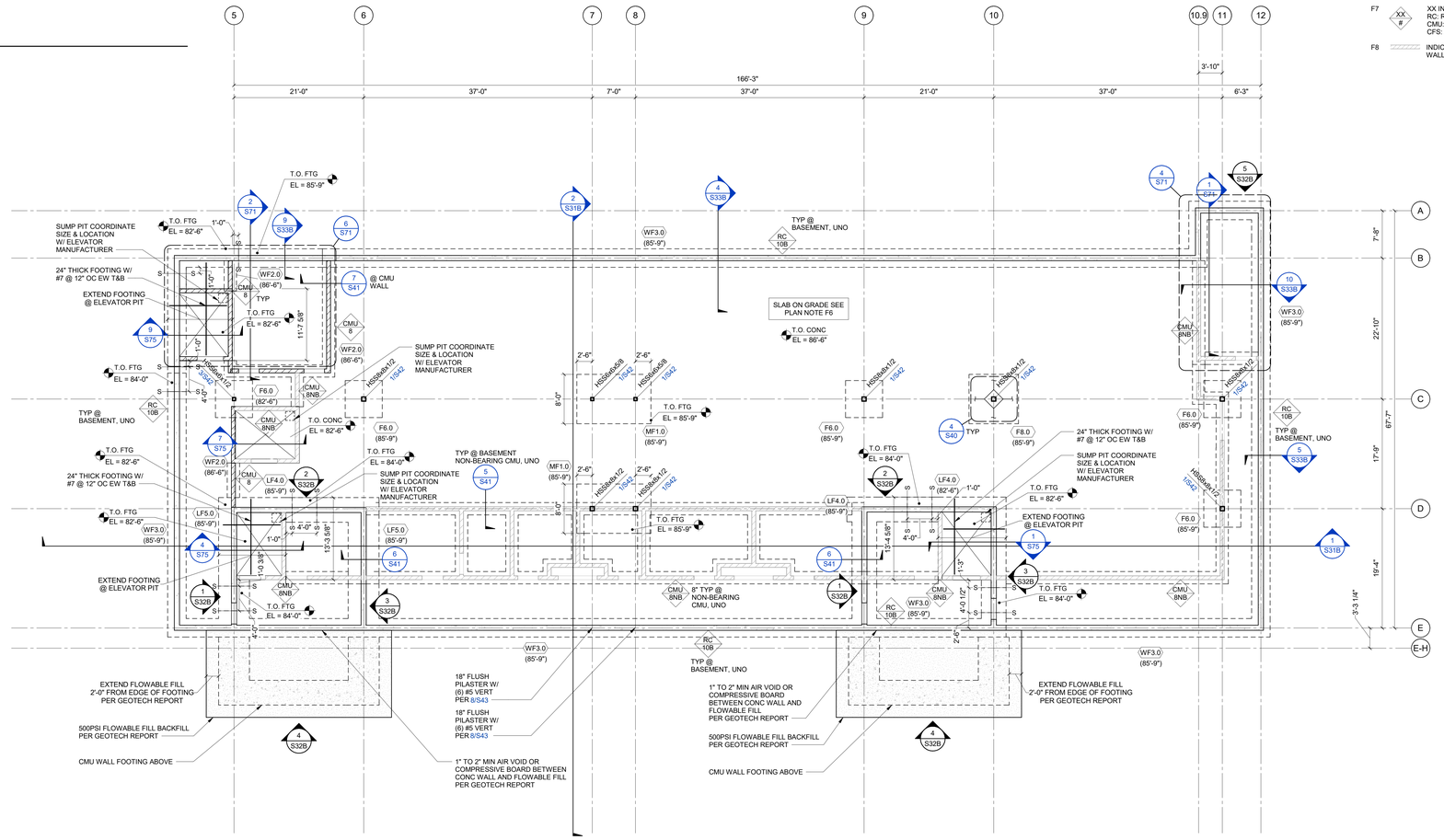
F4 S——S INDICATES STEP IN CONTINUOUS FOOTING PER 3/S41

F5 HSS INDICATES STEEL COLUMN AND BASE PLATE TYPE

F6 SLAB-ON GRADE SHALL BE 4" THICK WITH #4 @ 16"OC EW, UNO. REFER TO ARCHITECTURAL DRAWINGS FOR VAPOR RETARDER RECOMMENDATIONS.

F7 XX # XX INDICATES WALL TYPE AS FOLLOW:
RC: REINFORCED CONCRETE PER 1/S43
CMU: CMU WALL PER 1/S45
CFS: COLD FORMED STEEL WALL PER 1/S60

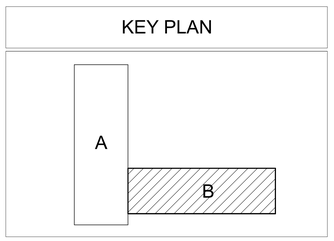
F8 INDICATE NON-BEARING "NB" WALLS (HALFTONE WALLS)



1 BASEMENT PLAN - AREA B
S20B
1/8" = 1'-0"

PLAN NORTH

KEY PLAN



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SHEET TITLE
BASEMENT PLAN - AREA B

SHEET
S20B

ORIGINAL SHEET SIZE
36" x 48"

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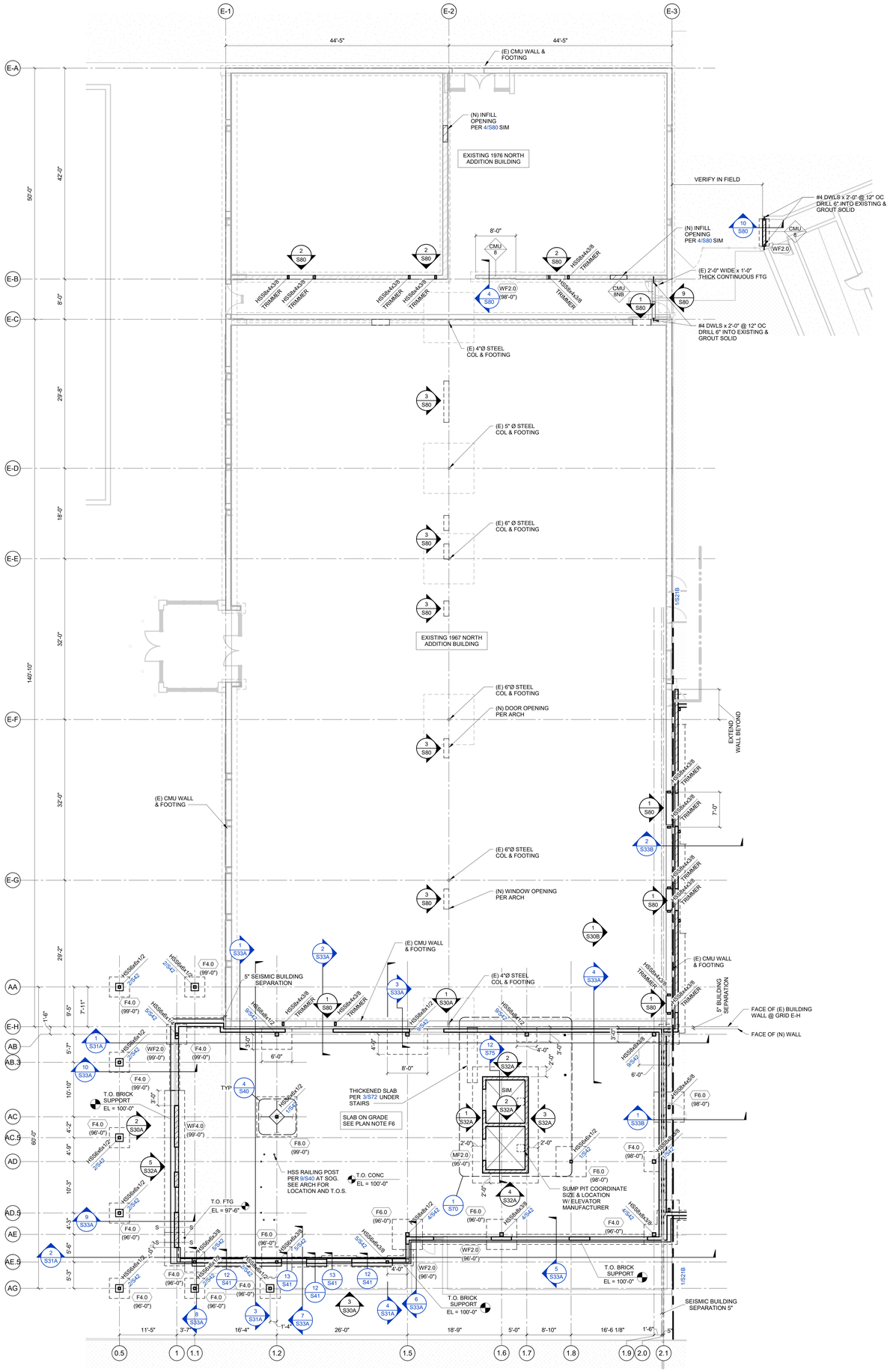


1 S21A FIRST FLOOR PLAN - AREA A

1/8" = 1'-0"

GENERAL PLAN NOTES:

G1 REFERENCE DRAWINGS:

S0X - GENERAL STRUCTURAL NOTES AND SYMBOLS
S1X - LOAD MAPS
S4X - TYPICAL CONCRETE DETAILS
S45 - TYPICAL CMU DETAILS
S5X - TYPICAL STEEL DETAILS
S6X - TYPICAL COLD-FORMED STEEL DETAIL

G2 SEE SHEET S01 FOR TYPICAL SYMBOLS

G3 FOR MSL ELEVATIONS, REFER TO CIVIL DRAWINGS

FOUNDATION PLAN NOTES:

F1 GEOTECHNICAL ENGINEER SHALL OBSERVE THE FOUNDATION EXCAVATIONS PRIOR TO PLACEMENT OF THE REINFORCING STEEL

F2 COORDINATE WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ALL UNDER-SLAB UTILITY LOCATIONS, TRENCHES, AND FLOOR SINKS. ALL UTILITIES THAT CROSS FOUNDATIONS SHALL BE PLACED BELOW FOOTINGS PER 1/S41

F3 F10.0 (99'-0") INDICATES FOOTING TYPE PER SCHEDULE INDICATES TOP OF FOOTING ELEVATION.

F4 S S INDICATES STEP IN CONTINUOUS FOOTING PER 3/S41

F5 #6# INDICATES STEEL COLUMN AND BASE PLATE TYPE

F6 SLAB-ON GRADE SHALL BE 4" THICK WITH #4 @ 16"OC EW, UNO. REFER TO ARCHITECTURAL DRAWINGS FOR VAPOR RETARDER RECOMMENDATIONS.

F7 XX # XX INDICATES WALL TYPE AS FOLLOW:
RC: REINFORCED CONCRETE PER 1/S43
CMU: CMU WALL PER 1/S45
CFS: COLD FORMED STEEL WALL PER 1/S60

F8 INDICATE NON-BEARING "NB" WALLS (HALFTONE WALLS)

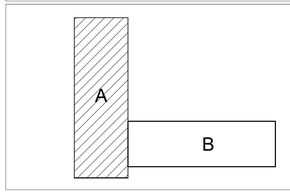
FOOTING SCHEDULE

TYPE MARK	DIMENSIONS			REINFORCING	TYPE COMMENTS
	LENGTH	WIDTH	DEPTH		
F4.0	4'-0"	4'-0"	1'-3"	(5) #5 EW	-
F6.0	6'-0"	6'-0"	1'-8"	(7) #7 EW	-
F8.0	8'-0"	8'-0"	2'-0"	(8) #7 EW	-
F10.0	10'-0"	10'-0"	2'-0"	(10) #7 EW	-

CONTINUOUS FOOTING SCHEDULE

TYPE MARK	DIMENSIONS		REINFORCING	TYPE COMMENTS
	WIDTH	DEPTH		
LF4.0	4'-0"	2'-0"	(6) #7 LONG W/ #7 @ 12" OC TRANS	REINFORCING TOP & BOT
LF5.0	5'-0"	2'-6"	(4) #7 TOP LONG W/ #7 @ 12" OC TRANS & (7) #8 BOT LONG W/ #7 @ 12" OC TRANS	REINFORCING TOP & BOT
MF1.0	PER PLAN	1'-8"	#7 BOT @ 12" OC EW	-
MF2.0	PER PLAN	2'-0"	#7 @ 12" OC EW	REINFORCING TOP & BOT
MF3.0	PER PLAN	2'-0"	#5 TOP & #7 BOT @ 12" OC EW	TOP BAR LONG ONLY
WF2.0	2'-0"	1'-0"	(2) #5 BOT LONG W/ #5 TRANS @ 12" OC	-
WF3.0	3'-0"	1'-3"	(4) #5 BOT LONG W/ #5 TRANS @ 9" OC	-
WF4.0	4'-0"	1'-3"	(2) #5 TOP & (5) #5 BOT LONG W/ #5 TRANS @ 12" OC	-

KEY PLAN



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PROJECT	DATE
102122000038	04-17-23
DRAWN	CHECKED
PINN	NLP

REVISED

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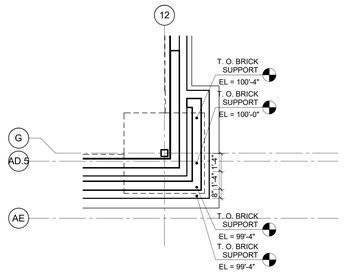
SHEET TITLE
FIRST FLOOR PLAN - AREA A

SHEET
S21A

ORIGINAL SHEET SIZE
36" x 48"

4/12/2023 5:27:05 PM



2 PARTIAL PLAN
S21B — 1/4" = 1'-0"

TYPICAL STEEL FRAMING NOTES :

1. SEE S02 SERIES FOR GENERAL NOTES.
2. SEE S50 SERIES FOR STEEL DETAILS.
3. SEE S60 SERIES FOR COLD-FORM METAL STUD DETAILS.
4. SEE S70 SERIES FOR STAIRS AND ELEVATOR PLANS AND DETAILS.
5. ALL BEAMS & JOISTS SHALL BE EQUALLY SPACED BETWEEN COLUMNS UNLESS NOTED OTHERWISE. ALIGN WF BEAM & JOIST WITH COLUMNS.
6. ALL STEEL BEAM CONNECTIONS TO BE PER THE STANDARD BOLTED BEAM CONNECTION DETAIL 1/S50 UNLESS NOTED OTHERWISE. SEE NOTES 4 & 5 FOR MORE INFORMATION ON CONNECTION OF BEAMS DESIGNATED AS LFRS.
7. PROVIDE STEEL BOLSTER PER 4/S52 FOR ALL DEPRESSED WF BEAMS THAT ARE SUPPORTING OWSJ.
8. DO NOT DEVIATE FROM SPECIFIED THICKNESS OF CONCRETE SLAB BY MORE THAN +1/2"/-0".
9. ALL STEEL EXPOSED TO VIEW SHALL BE HOT DIP GALVANIZED OR PRIMED & PAINTED PER ARCH REQUIREMENTS.
10. SEE OPEN WEB STEEL JOIST SECTION IN THE GENERAL NOTES FOR LOAD LAYOUT AND ADDITIONAL DESIGN LOADS.
11. COORDINATE EXACT MEP UNIT LOCATION WITH MECH, ALIGN WF FRAMING UNDER UNITS, TYP.
12. REFERENCE ARCH FOR SLAB EDGES AND OPENINGS.
13. PROVIDE EMBED PLATE PER 8/S43 FOR STEEL TO CONCRETE CONNECTIONS, UNO.
14. PROVIDE FIRE CAULKING WHERE BEAMS PENETRATE FIRE RATED WALLS.

PLAN SYMBOLS

1. TB — INDICATES TORSIONAL BRACING AT BEAM CONNECTION PER 1/S50
2. "LFRS" INDICATES THAT THE MEMBER IS PART OF THE LATERAL FORCE RESISTING SYSTEM. SEE GENERAL NOTES FOR MORE INFORMATION. ALSO SEE CONNECTION NOTES IN DETAIL 1/S50 FOR SLIP CRITICAL BOLT REQUIRMENTS
3. INDICATES DRAG CONNECTION AT HSS COLUMN PER 1/S53
4. INDICATES FULL HEIGHTS STIFFNER CONNECTION PER 1/S50 SEE 6/S52 FOR OWSJ MEMBERS.
5. INDICATES DIAGONAL ANGLE BRACING PER 4/S50
6. [X] INDICATES # OF SHEAR STUDS REQUIRED. PROVIDE A MINIMUM OF ONE STUD PER FOOT TYPICAL ON ALL BEAMS AND GIRDERS, SEE DETAIL 1/S51
   C YY" INDICATES UPWARD BEAM CAMBER AT MIDSPAN.
   (Z) INDICATES TOP OF STEEL BEAM RELATIVE THE REFERENCED T.O. STEEL ELEVATION.
7. D# — INDICATES CONCRETE DECK TYPE AND ORIENTATION OF DECK FLUTES PER DETAIL 1/S55 SEE DETAIL 6/S55 FOR ADDL REBAR OVER GIRDERS.
   D# — INDICATES METAL DECK TYPE AND ORIENTATION OF DECK FLUTES PER DETAIL 1/S55
8. INDICATES CONCRETE OVERBUILD UP PER 11/S51
9. INDICATES PENETRATION IN FRAMING, COORDINATE W/ MECHANICAL DRAWINGS
10. XX / # — XX INDICATES WALL TYPE AS FOLLOW:
    RC: REINFORCED CONCRETE PER 1/S43
    CMU: CMU WALL PER 1/S45
    CFS: COLD FORMED STEEL WALL PER 1/S60
11. "XX"CJ — INDICATES COMPOSITE STEEL JOIST PER JOIST SCHEDULE IN GENERAL NOTES
    "XX"K — INDICATES STEEL JOIST PER JOIST SCHEDULE IN GENERAL NOTES

FOOTING SCHEDULE

TYPE MARK	DIMENSIONS LENGTH	WIDTH	DEPTH	REINFORCING	TYPE COMMENTS
F4.0	4'-0"	4'-0"	1'-3"	(5) #5 EW	-
F6.0	6'-0"	6'-0"	1'-8"	(7) #7 EW	-
F8.0	8'-0"	8'-0"	2'-0"	(8) #7 EW	-
F10.0	10'-0"	10'-0"	2'-0"	(10) #7 EW	-

CONTINUOUS FOOTING SCHEDULE

TYPE MARK	DIMENSIONS WIDTH	DEPTH	REINFORCING	TYPE COMMENTS
LF4.0	4'-0"	2'-0"	(6) #7 LONG W/ #7 @ 12" OC TRANS	REINFORCING TOP & BOT
LF5.0	5'-0"	2'-6"	(4) #7 TOP LONG W/ #7 @ 12" OC TRANS & (7) #8 BOT LONG W/ #7 @ 12" OC TRANS	REINFORCING TOP & BOT
MF1.0	PER PLAN	1'-8"	#7 BOT @ 12" OC EW	-
MF2.0	PER PLAN	2'-0"	#7 @ 12" OC EW	REINFORCING TOP & BOT
MF3.0	PER PLAN	2'-0"	#5 TOP & #7 BOT @ 12" OC EW	TOP BAR LONG ONLY
WF2.0	2'-0"	1'-0"	(2) #5 BOT LONG W/ #5 TRANS @ 12" OC	-
WF3.0	3'-0"	1'-3"	(4) #5 BOT LONG W/ #5 TRANS @ 9" OC	-
WF4.0	4'-0"	1'-3"	(2) #5 TOP & (5) #5 BOT LONG W/ #5 TRANS @ 12" OC	-

POLE FOOTING SCHEDULE

TYPE MARK	DIMENSIONS DIAMETER	DEPTH	REINFORCING VERTICAL	HORIZONTAL	TYPE COMMENTS
18"Ø	1'-6"	4'-0"	(6) #4	PER 14/S41	

GENERAL PLAN NOTES:

G1 REFERENCE DRAWINGS:
- S0X - GENERAL STRUCTURAL NOTES AND SYMBOLS
- S1X - LOAD MAPS
- S4X - TYPICAL CONCRETE DETAILS
- S45 - TYPICAL CMU DETAILS
- S5X - TYPICAL STEEL DETAILS
- S6X - TYPICAL COLD-FORMED STEEL DETAIL

G2 SEE SHEET S01 FOR TYPICAL SYMBOLS

G3 FOR MSL ELEVATIONS, REFER TO CIVIL DRAWINGS

FOUNDATION PLAN NOTES:

F1 GEOTECHNICAL ENGINEER SHALL OBSERVE THE FOUNDATION EXCAVATIONS PRIOR TO PLACEMENT OF THE REINFORCING STEEL

F2 COORDINATE WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ALL UNDER-SLAB UTILITY LOCATIONS, TRENCHES, AND FLOOR SINKS. ALL UTILITIES THAT CROSS FOUNDATIONS SHALL BE PLACED BELOW FOOTINGS PER 1/S41

F3 F10.0 (99'-0") — INDICATES FOOTING TYPE PER SCHEDULE, INDICATES TOP OF FOOTING ELEVATION.

F4 S——S — INDICATES STEP IN CONTINUOUS FOOTING PER 3/S41

F5 #### — INDICATES STEEL COLUMN AND BASE PLATE TYPE

F6 SLAB-ON GRADE SHALL BE 4" THICK WITH #4 @ 16"OC EW, UNO. REFER TO ARCHITECTURAL DRAWINGS FOR VAPOR RETARDER RECOMMENDATIONS.

F7 XX / # — XX INDICATES WALL TYPE AS FOLLOW:
RC: REINFORCED CONCRETE PER 1/S43
CMU: CMU WALL PER 1/S45
CFS: COLD FORMED STEEL WALL PER 1/S60

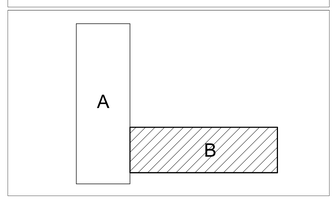
F8 INDICATE NON-BEARING "NB" WALLS (HALFTONE WALLS)

F9 SLAB-ON GRADE CONTROL JOINTS PER 3/S40, WHERE CONTROL JOINTS ARE NOT SHOWN ON PLAN, CONTRACTOR TO PROVIDE CONTROL JOINT LAYOUT. SUBMIT CONTROL JOINT LAYOUT FOR APPROVAL PRIOR TO CUTTING.

1 FIRST FLOOR PLAN- AREA B
S21B — 1/8" = 1'-0"

PLAN NORTH

KEY PLAN



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PROFESSIONAL ENGINEER — REGISTERED — 12033 — STATE OF IDAHO — KIRSTEN M. WILLIAMS

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AGENCY REVIEW SET

PROJECT	DATE
10212200038	04-17-23
DRAWN	CHECKED
PINN	NLP

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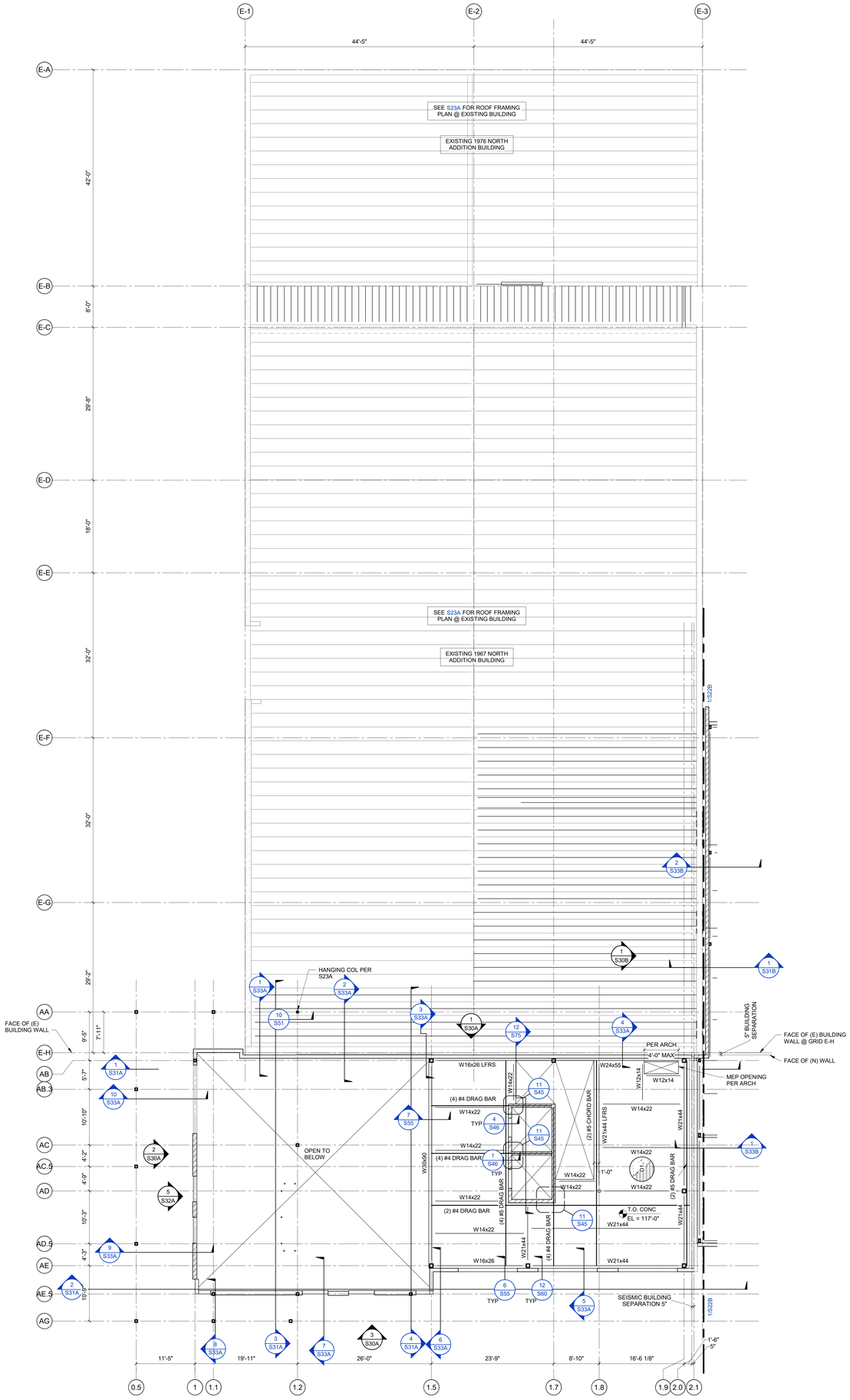
SHEET TITLE
FIRST FLOOR PLAN - AREA B

SHEET
S21B

ORIGINAL SHEET SIZE
36" x 48"

4/12/2023 5:12:09 PM



1 S22A SECOND FLOOR PLAN - AREA A
1/8" = 1'-0"

PLAN NORTH

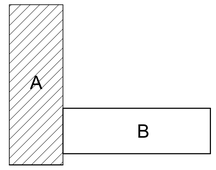
TYPICAL STEEL FRAMING NOTES :

1. SEE S02 SERIES FOR GENERAL NOTES.
2. SEE S50 SERIES FOR STEEL DETAILS.
3. SEE S60 SERIES FOR COLD-FORM METAL STUD DETAILS.
4. SEE S70 SERIES FOR STAIRS AND ELEVATOR PLANS AND DETAILS.
5. ALL BEAMS & JOISTS SHALL BE EQUALLY SPACED BETWEEN COLUMNS UNLESS NOTED OTHERWISE. ALIGN WF BEAM & JOIST WITH COLUMNS.
6. ALL STEEL BEAM CONNECTIONS TO BE PER THE STANDARD BOLTED BEAM CONNECTION DETAIL 1/S50 UNLESS NOTED OTHERWISE. SEE PLAN SYMBOLS NOTES 4 & 5 FOR MORE INFORMATION ON CONNECTION OF BEAMS DESIGNATED AS LFRS.
7. PROVIDE STEEL BOLSTER PER 4/S52 FOR ALL DEPRESSED WF BEAMS THAT ARE SUPPORTING OWSJ.
8. DO NOT DEVIATE FROM SPECIFIED THICKNESS OF CONCRETE SLAB BY MORE THAN +1/2"/-0".
9. ALL STEEL EXPOSED TO VIEW SHALL BE HOT DIP GALVANIZED OR PRIMED & PAINTED PER ARCH REQUIREMENTS.
10. SEE OPEN WEB STEEL JOIST SECTION IN THE GENERAL NOTES FOR LOAD LAYOUT AND ADDITIONAL DESIGN LOADS.
11. COORDINATE EXACT MEP UNIT LOCATION WITH MECH, ALIGN WF FRAMING UNDER UNITS, TYP.
12. REFERENCE ARCH FOR SLAB EDGES AND OPENINGS.
13. PROVIDE EMBED PLATE PER 8/S43 FOR STEEL TO CONCRETE CONNECTIONS, UNO.
14. PROVIDE TYPICAL BEAM POCKET FOR WF BEAMS AND OWSJ PER 2/S46
15. PROVIDE FIRE CAULKING WHERE BEAMS PENETRATE FIRE RATED WALLS.

PLAN SYMBOLS

1. TB — INDICATES TORSIONAL BRACING AT BEAM CONNECTION PER 1/S50
2. "LFRS" — INDICATES THAT THE MEMBER IS PART OF THE LATERAL FORCE RESISTING SYSTEM. SEE GENERAL NOTES FOR MORE INFORMATION. ALSO SEE CONNECTION NOTES IN DETAIL 1/S50 FOR SLIP CRITICAL BOLT REQUIRMENTS
3. INDICATES DRAG CONNECTION AT HSS COLUMN PER 1/S53
4. INDICATES FULL HEIGHTS STIFFNER CONNECTION PER 1/S50
5. INDICATES DIAGONAL ANGLE BRACING PER 4/S50
6. [X] — INDICATES # OF SHEAR STUDS REQUIRED. PROVIDE A MINIMUM OF ONE STUD PER FOOT TYPICAL ON ALL BEAMS AND GIRDERS, SEE DETAIL 1/S51
   C YY" — INDICATES UPWARD BEAM CAMBER AT MIDSPAN.
   (Z) — INDICATES TOP OF STEEL BEAM RELATIVE THE REFERENCED T.O. STEEL ELEVATION.
7. D# — INDICATES CONCRETE DECK TYPE AND ORIENTATION OF DECK FLUTES PER DETAIL 1/S55 SEE DETAIL 6/S55 FOR ADDL REBAR OVER GIRDERS.
   DK — INDICATES METAL DECK TYPE AND ORIENTATION OF DECK FLUTES PER DETAIL 1/S55
8. INDICATES CONCRETE OVERBUILD UP PER 11/S51
9. INDICATES PENETRATION IN FRAMING, COORDINATE W/ MECHANICAL DRAWINGS
10. XX / # — XX INDICATES WALL TYPE AS FOLLOW:
    RC: REINFORCED CONCRETE PER 1/S43
    CMU: CMU WALL PER 1/S45
    CFS: COLD FORMED STEEL WALL PER 1/S60
11. "XX"CJ — INDICATES COMPOSITE STEEL JOIST PER JOIST SCHEDULE IN GENERAL NOTES
    "XX"K — INDICATES STEEL JOIST PER JOIST SCHEDULE IN GENERAL NOTES

KEY PLAN



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SHEET TITLE
SECOND FLOOR PLAN - AREA A

SHEET
S22A

ORIGINAL SHEET SIZE
36" x 48"

4/12/2023 5:12:11 PM

TYPICAL STEEL FRAMING NOTES :

1. SEE S02 SERIES FOR GENERAL NOTES.
2. SEE S50 SERIES FOR STEEL DETAILS.
3. SEE S60 SERIES FOR COLD-FORM METAL STUD DETAILS.
4. SEE S70 SERIES FOR STAIRS AND ELEVATOR PLANS AND DETAILS.
5. ALL BEAMS & JOISTS SHALL BE EQUALLY SPACED BETWEEN COLUMNS UNLESS NOTED OTHERWISE. ALIGN WF BEAM & JOIST WITH COLUMNS.
6. ALL STEEL BEAM CONNECTIONS TO BE PER THE STANDARD BOLTED BEAM CONNECTION DETAIL 1/S50 UNLESS NOTED OTHERWISE. SEE PLAN SYMBOLS NOTES 2 & 3 FOR MORE INFORMATION ON CONNECTION OF BEAMS DESIGNATED AS LFRS.
7. PROVIDE STEEL BOLSTER PER 4/S52 FOR ALL DEPRESSED WF BEAMS THAT ARE SUPPORTING OWSJ.
8. DO NOT DEVIATE FROM SPECIFIED THICKNESS OF CONCRETE SLAB BY MORE THAN +1/2"/-0".
9. ALL STEEL EXPOSED TO VIEW SHALL BE HOT DIP GALVANIZED OR PRIMED & PAINTED PER ARCH REQUIREMENTS.
10. SEE OPEN WEB STEEL JOIST SECTION IN THE GENERAL NOTES FOR LOAD LAYOUT AND ADDITIONAL DESIGN LOADS.
11. COORDINATE EXACT MEP UNIT LOCATION WITH MECH, ALIGN WF FRAMING UNDER UNITS, TYP.
12. REFERENCE ARCH FOR SLAB EDGES AND OPENINGS.
13. PROVIDE EMBED PLATE PER 8/S43 FOR STEEL TO CONCRETE CONNECTIONS, UNO.
14. PROVIDE TYPICAL BEAM POCKET FOR WF BEAMS AND OWSJ PER 2/S46
15. PROVIDE FIRE CAULKING WHERE BEAMS PENETRATE FIRE RATED WALLS.

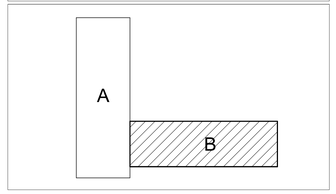
PLAN SYMBOLS

1. TB — INDICATES TORSIONAL BRACING AT BEAM CONNECTION PER 1/S50
2. "LFRS" INDICATES THAT THE MEMBER IS PART OF THE LATERAL FORCE RESISTING SYSTEM. SEE GENERAL NOTES FOR MORE INFORMATION. ALSO SEE CONNECTION NOTES IN DETAIL 1/S50 FOR SLIP CRITICAL BOLT REQUIRMENTS
3. INDICATES DRAG CONNECTION AT HSS COLUMN PER 1/S53
4. INDICATES FULL HEIGHTS STIFFNER CONNECTION PER 1/S50 SEE 6/S52 FOR OWSJ MEMBERS.
5. INDICATES DIAGONAL ANGLE BRACING PER 4/S50
6. [X] INDICATES # OF SHEAR STUDS REQUIRED. PROVIDE A MINIMUM OF ONE STUD PER FOOT TYPICAL ON ALL BEAMS AND GIRDERS, SEE DETAIL 1/S51
   C YY" INDICATES UPWARD BEAM CAMBER AT MIDSPAN.
   (Z) INDICATES TOP OF STEEL BEAM RELATIVE THE REFERENCED T.O. STEEL ELEVATION.
7. D# — INDICATES CONCRETE DECK TYPE AND ORIENTATION OF DECK FLUTES PER DETAIL 1/S55 SEE DETAIL 6/S55 FOR ADDL REBAR OVER GIRDERS.
   D# — INDICATES METAL DECK TYPE AND ORIENTATION OF DECK FLUTES PER DETAIL 1/S55
8. INDICATES CONCRETE OVERBUILD UP PER 11/S51
9. INDICATES PENETRATION IN FRAMING, COORDINATE W/ MECHANICAL DRAWINGS
10. XX # — XX INDICATES WALL TYPE AS FOLLOW:
    RC: REINFORCED CONCRETE PER 1/S43
    CMU: CMU WALL PER 1/S45
    CFS: COLD FORMED STEEL WALL PER 1/S60
11. "XX"CJ — INDICATES COMPOSITE STEEL JOIST PER JOIST SCHEDULE IN GENERAL NOTES
    "XX"K — INDICATES STEEL JOIST PER JOIST SCHEDULE IN GENERAL NOTES

1 S22B SECOND FLOOR PLAN - AREA B
1/8" = 1'-0"

PLAN NORTH

KEY PLAN



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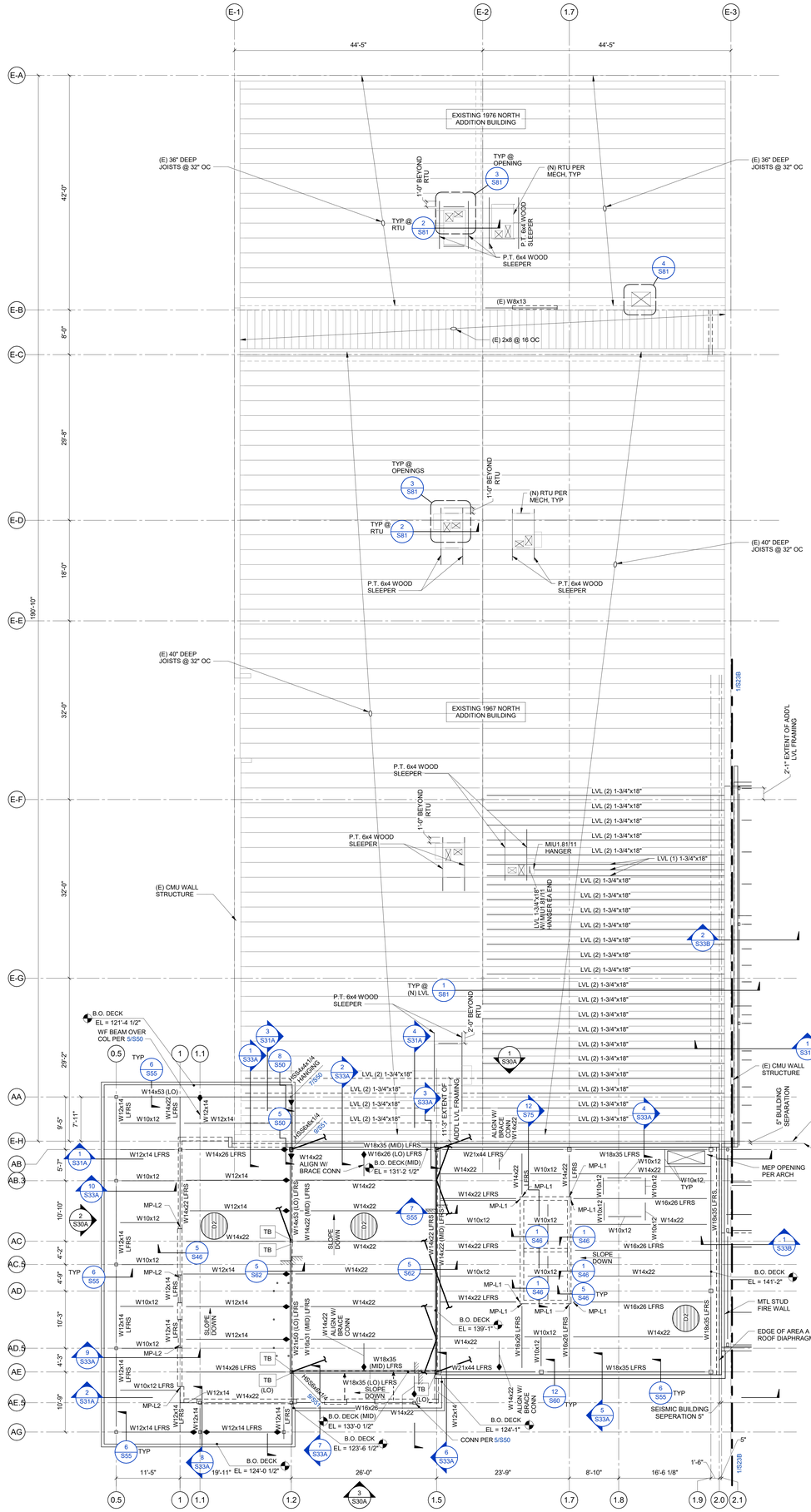
SHEET TITLE
SECOND FLOOR PLAN - AREA B

SHEET
S22B

ORIGINAL SHEET SIZE
36" x 48"

4/12/2023 5:12:11 PM



1 S23A ROOF PLAN - AREA A

1/8" = 1'-0"

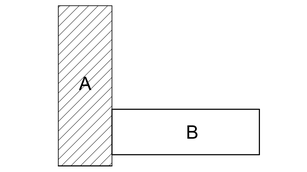
TYPICAL STEEL FRAMING NOTES :

1. SEE S02 SERIES FOR GENERAL NOTES.
2. SEE S50 SERIES FOR STEEL DETAILS.
3. SEE S60 SERIES FOR COLD-FORM METAL STUD DETAILS.
4. SEE S70 SERIES FOR STAIRS AND ELEVATOR PLANS AND DETAILS.
5. ALL BEAMS & JOISTS SHALL BE EQUALLY SPACED BETWEEN COLUMNS UNLESS NOTED OTHERWISE. ALIGN WF BEAM & JOIST WITH COLUMNS.
6. ALL STEEL BEAM CONNECTIONS TO BE PER THE STANDARD BOLTED BEAM CONNECTION DETAIL 1/S50 UNLESS NOTED OTHERWISE. SEE PLAN SYMBOLS NOTES 2 & 3 FOR MORE INFORMATION ON CONNECTION OF BEAMS DESIGNATED AS LFRS.
7. PROVIDE STEEL BOLSTER PER 4/S52 FOR ALL DEPRESSED WF BEAMS THAT ARE SUPPORTING OWSJ.
8. DO NOT DEVIATE FROM SPECIFIED THICKNESS OF CONCRETE SLAB BY MORE THAN +1/2"/-0".
9. ALL STEEL EXPOSED TO VIEW SHALL BE HOT DIP GALVANIZED OR PRIMED & PAINTED PER ARCH REQUIREMENTS.
10. SEE OPEN WEB STEEL JOIST SECTION IN THE GENERAL NOTES FOR LOAD LAYOUT AND ADDITIONAL DESIGN LOADS.
11. COORDINATE EXACT MEP UNIT LOCATION WITH MECH, ALIGN WF FRAMING UNDER UNITS, TYP.
12. REFERENCE ARCH FOR SLAB EDGES AND OPENINGS.
13. PROVIDE EMBED PLATE PER 8/S43 FOR STEEL TO CONCRETE CONNECTIONS, UNO.
14. PROVIDE TYPICAL BEAM POCKET FOR WF BEAMS AND OWSJ PER 2/S46 OR 3/S46

PLAN SYMBOLS

1. TB — INDICATES TORSIONAL BRACING AT BEAM CONNECTION PER
2. "LFRS" — INDICATES THAT THE MEMBER IS PART OF THE LATERAL FORCE RESISTING SYSTEM. SEE GENERAL NOTES FOR MORE INFORMATION. ALSO SEE CONNECTION NOTES IN DETAIL 1/S50 FOR SLIP CRITICAL BOLT REQUIRMENTS
3. INDICATES DRAG CONNECTION AT HSS COLUMN PER 1/S53
4. INDICATES FULL HEIGHTS STIFFNER CONNECTION PER 1/S50 SEE 6/S52 FOR OWSJ MEMBERS.
5. INDICATES DIAGONAL ANGLE BRACING PER 4/S50
6. [X] — INDICATES # OF SHEAR STUDS REQUIRED. PROVIDE A MINIMUM OF ONE STUD PER FOOT TYPICAL ON ALL BEAMS AND GIRDERS, SEE DETAIL 1/S51
   C YY" — INDICATES UPWARD BEAM CAMBER AT MIDSPAN.
   (Z) — INDICATES TOP OF STEEL BEAM RELATIVE THE REFERENCED T.O. STEEL ELEVATION.
7. D# — INDICATES CONCRETE DECK TYPE AND ORIENTATION OF DECK FLUTES PER DETAIL 1/S55 SEE DETAIL 6/S55 FOR ADDL REBAR OVER GIRDERS.
   D# — INDICATES METAL DECK TYPE AND ORIENTATION OF DECK FLUTES PER DETAIL 1/S55
8. INDICATES MAX 6" CONCRETE RAMP PER ARCH. SLOPE PER ARCH, TYP.
9. MP-L# — INDICATES DRAG CONNECTION TO CMU WALL PER 6/S46

KEY PLAN



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SHEET TITLE
ROOF PLAN - AREA A

SHEET
S23A

ORIGINAL SHEET SIZE
36" x 48"

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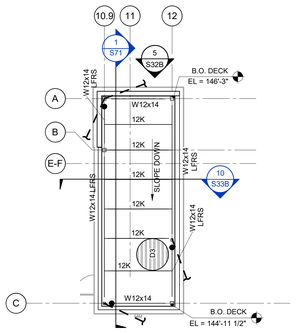


2 S23B ROOF PLAN - AREA B STAIR ROOF

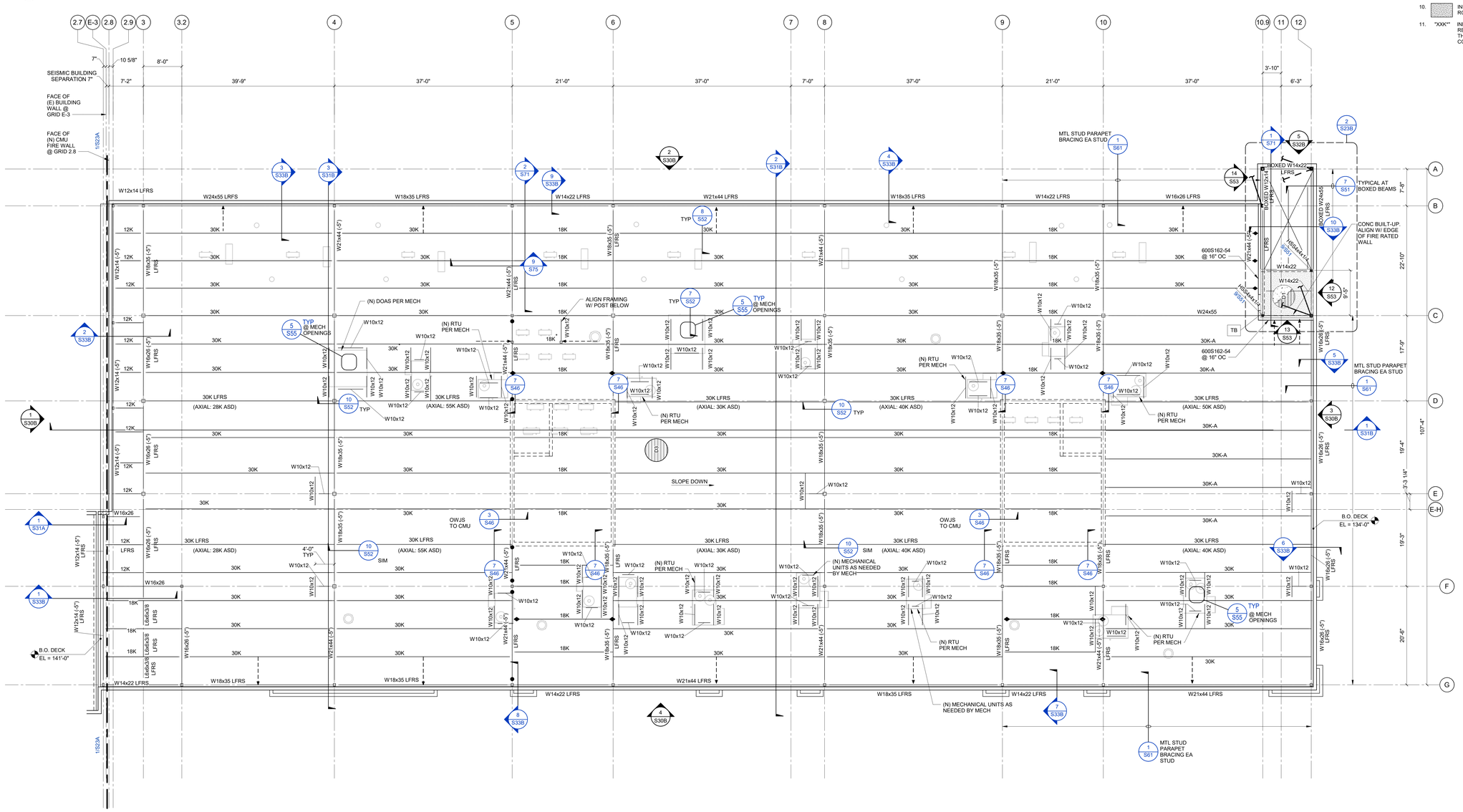
1/8" = 1'-0"

TYPICAL STEEL FRAMING NOTES :

1. SEE S02 SERIES FOR GENERAL NOTES.
2. SEE S50 SERIES FOR STEEL DETAILS.
3. SEE S60 SERIES FOR COLD-FORM METAL STUD DETAILS.
4. SEE S70 SERIES FOR STAIRS AND ELEVATOR PLANS AND DETAILS.
5. ALL BEAMS & JOISTS SHALL BE EQUALLY SPACED BETWEEN COLUMNS UNLESS NOTED OTHERWISE. ALIGN WF BEAM & JOIST WITH COLUMNS.
6. ALL STEEL BEAM CONNECTIONS TO BE PER THE STANDARD BOLTED BEAM CONNECTION DETAIL 1/S50 UNLESS NOTED OTHERWISE. SEE PLAN SYMBOLS NOTES 2 & 3 FOR MORE INFORMATION ON CONNECTION OF BEAMS DESIGNATED AS LFRS.
7. PROVIDE STEEL BOLSTER PER 4/S52 FOR ALL DEPRESSED WF BEAMS THAT ARE SUPPORTING OWSJ.
8. DO NOT DEVIATE FROM SPECIFIED THICKNESS OF CONCRETE SLAB BY MORE THAN +1/2"-0".
9. ALL STEEL EXPOSED TO VIEW SHALL BE HOT DIP GALVANIZED OR PRIMED & PAINTED PER ARCH REQUIREMENTS.
10. SEE OPEN WEB STEEL JOIST SECTION IN THE GENERAL NOTES FOR LOAD LAYOUT AND ADDITIONAL DESIGN LOADS.
11. COORDINATE EXACT MEP UNIT LOCATION WITH MECH, ALIGN WF FRAMING UNDER UNITS, TYP.
12. REFERENCE ARCH FOR SLAB EDGES AND OPENINGS.
13. PROVIDE EMBED PLATE PER 8/S43 FOR STEEL TO CONCRETE CONNECTIONS, UNO.
14. PROVIDE TYPICAL BEAM POCKET FOR WF BEAMS AND OWSJ PER 2/S46 OR 3/S46

PLAN SYMBOLS

1. TB — INDICATES TORSIONAL BRACING AT BEAM CONNECTION PER
2. "LFRS" INDICATES THAT THE MEMBER IS PART OF THE LATERAL FORCE RESISTING SYSTEM. SEE GENERAL NOTES FOR MORE INFORMATION. ALSO SEE CONNECTION NOTES IN DETAIL 1/S50 FOR SLIP CRITICAL BOLT REQUIRMENTS
3. INDICATES DRAG CONNECTION AT HSS COLUMN PER 1/S53
4. INDICATES FULL HEIGHTS STIFFNER CONNECTION PER 1/S50 SEE 6/S52 FOR OWSJ MEMBERS.
5. INDICATES DIAGONAL ANGLE BRACING PER 4/S50
6. [X] INDICATES # OF SHEAR STUDS REQUIRED. PROVIDE A MINIMUM OF ONE STUD PER FOOT TYPICAL ON ALL BEAMS AND GIRDERS, SEE DETAIL 1/S51
   C YY" INDICATES UPWARD BEAM CAMBER AT MIDSPAN.
   (Z) INDICATES TOP OF STEEL BEAM RELATIVE THE REFERENCED T.O. STEEL ELEVATION.
7. D# — INDICATES CONCRETE DECK TYPE AND ORIENTATION OF DECK FLUTES PER DETAIL 1/S55 SEE DETAIL 6/S55 FOR ADDL REBAR OVER GIRDERS.
   D# — INDICATES METAL DECK TYPE AND ORIENTATION OF DECK FLUTES PER DETAIL 1/S55
8. INDICATES MAX 6" CONCRETE RAMP PER ARCH. SLOPE PER ARCH, TYP.
9. MP-L# INDICATES DRAG CONNECTION TO CMU WALL PER 6/S46
10. INDICATES RAISED BUILT UP TOPPING SLAB AT ROOF PER 12/S51AND 13/S51 .
11. "XXK"" INDICATES JOISTS REQUIRED TO BE DESIGNED FOR REVERSIBLE SKIPS VERTICAL AND AXIAL LOADS AT THE BOTTOM CHORD AT BRACE TO JOIST CONNECTIONS.

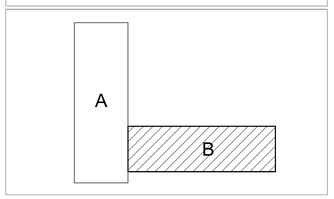


1 S23B ROOF PLAN - AREA B

1/8" = 1'-0"

PLAN NORTH

KEY PLAN



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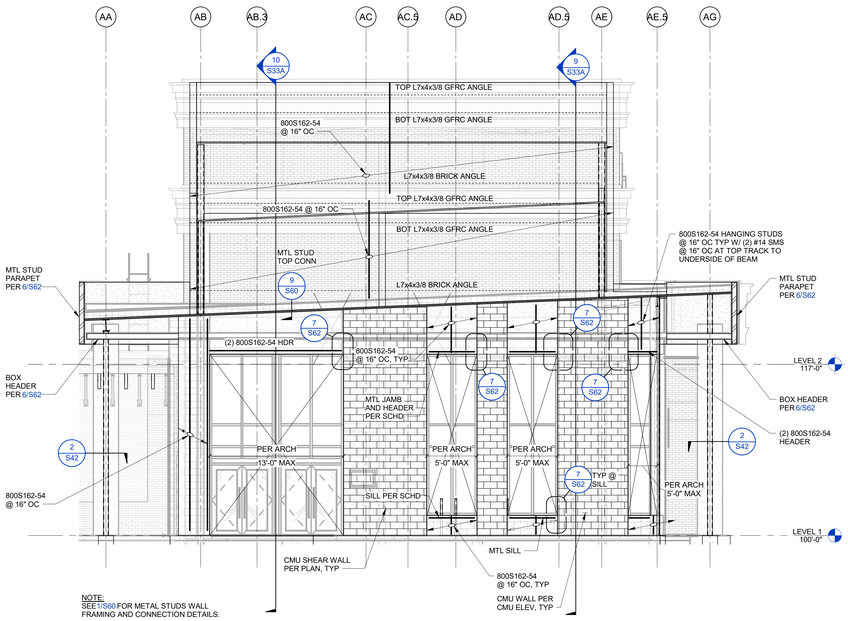
SHEET TITLE
ROOF PLAN - AREA B

SHEET
S23B

ORIGINAL SHEET SIZE
36" x 48"

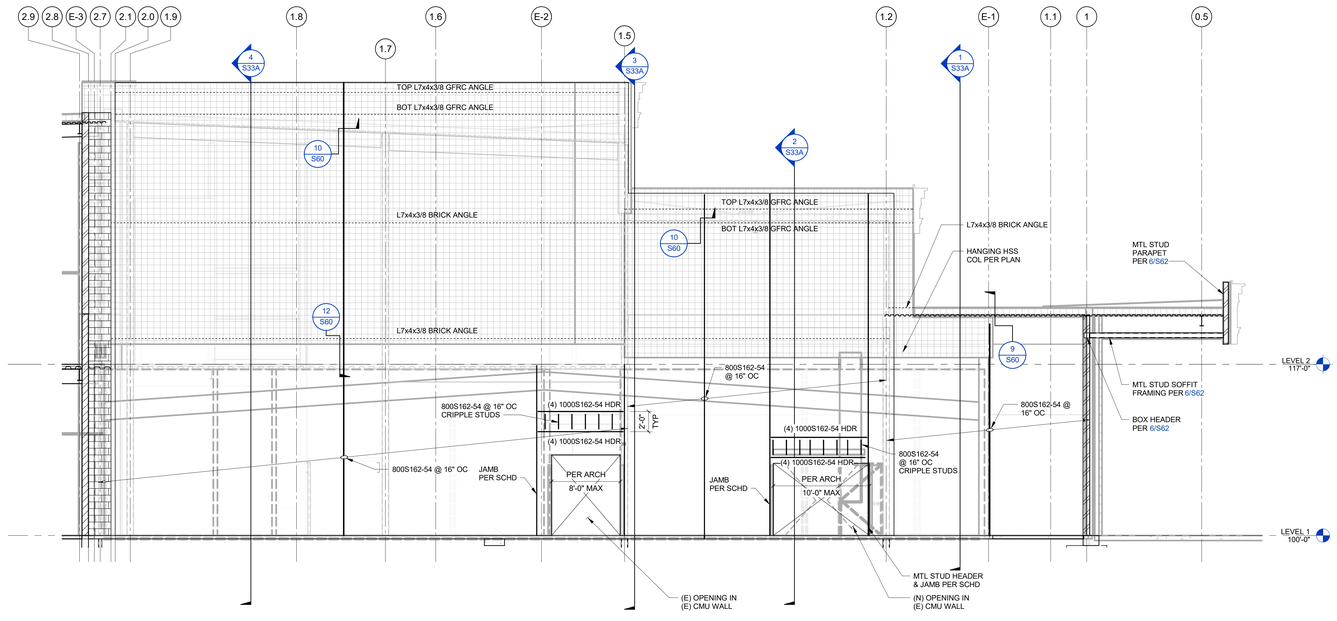
ELEVATION NOTES:

1. SEE PLAN NOTES AND PLAN SYMBOLS ON PLAN SHEETS FOR BALANCE OF INFORMATION
2. XX # — XX INDICATES WALL TYPE AS FOLLOW:
   RC: REINFORCED CONCRETE PER 1/S43
   CMU: CMU WALL PER 1/S45
   CFS: COLD FORMED STEEL WALL PER 1/S60
3. SEE 1/S60 FOR METAL STUDS WALL FRAMING AND CONNECTION DETAILS.



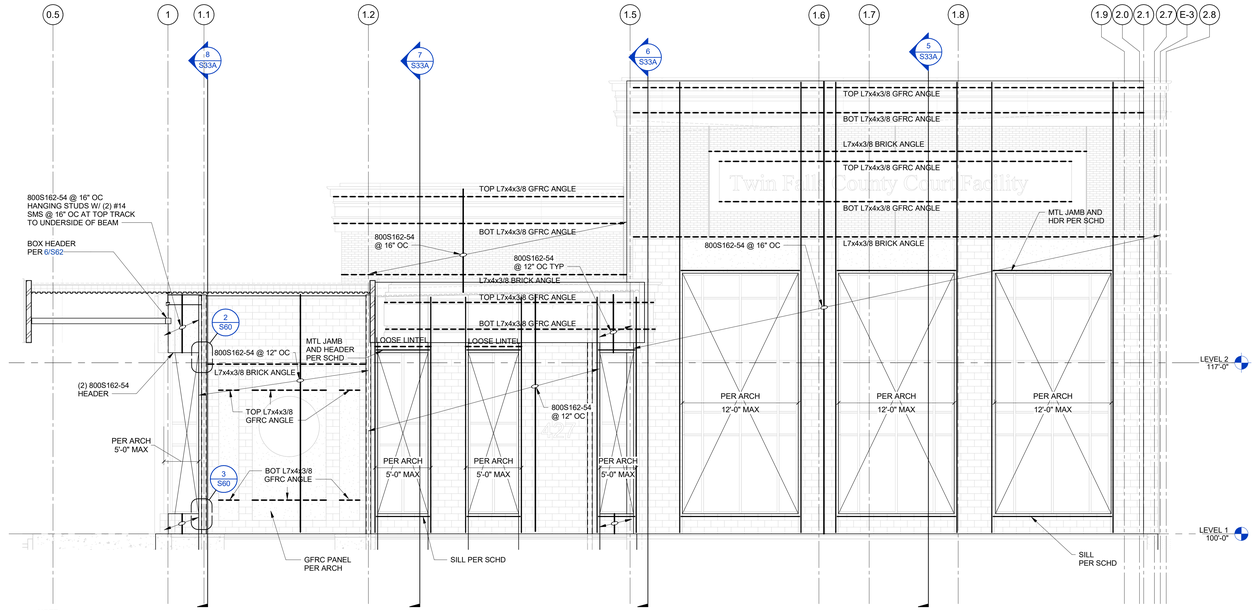
NOTE:
SEE 1/S60 FOR METAL STUDS WALL FRAMING AND CONNECTION DETAILS.

2 S30A — BUILDING ELEVATIONS - WEST
3/16" = 1'-0"



NOTE:
(E) 1967 BUILDING WALL NOT SHOWN FOR CLARITY.
SEE 1/S60 FOR METAL STUDS WALL FRAMING AND CONNECTION DETAILS.

1 S30A — BUILDING ELEVATIONS - NORTH
3/16" = 1'-0"



NOTE:
SEE 1/S60 FOR METAL STUDS WALL FRAMING AND CONNECTION DETAILS.

3 S30A — BUILDING ELEVATIONS - SOUTH
3/16" = 1'-0"

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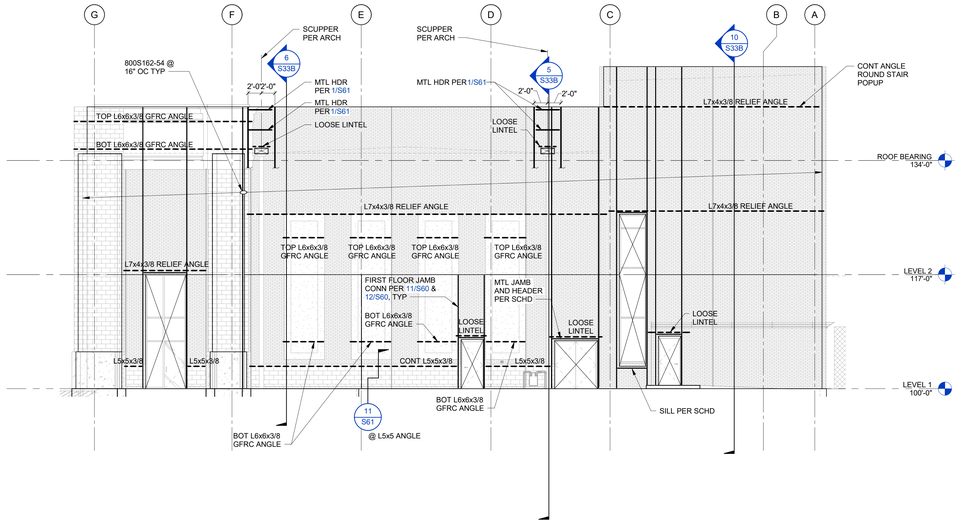
SHEET TITLE
BUILDING ELEVATION - AREA A

SHEET
S30A

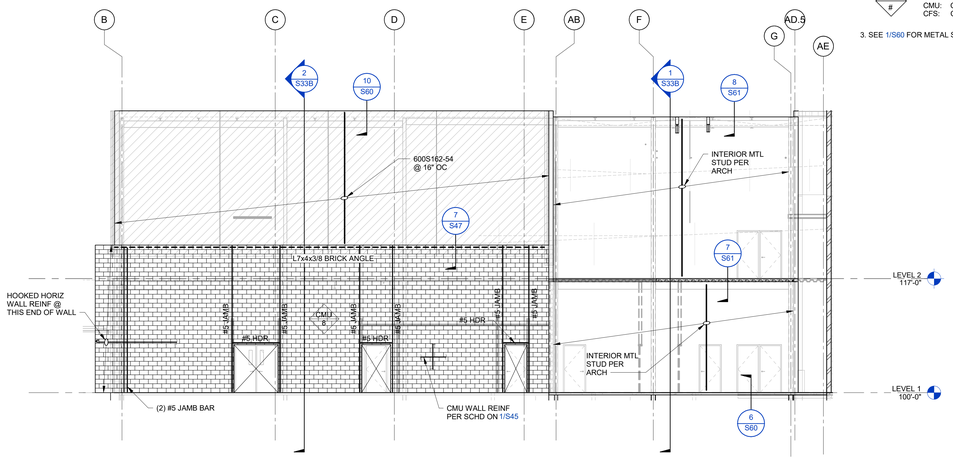
ORIGINAL SHEET SIZE
36" x 48"

ELEVATION NOTES:

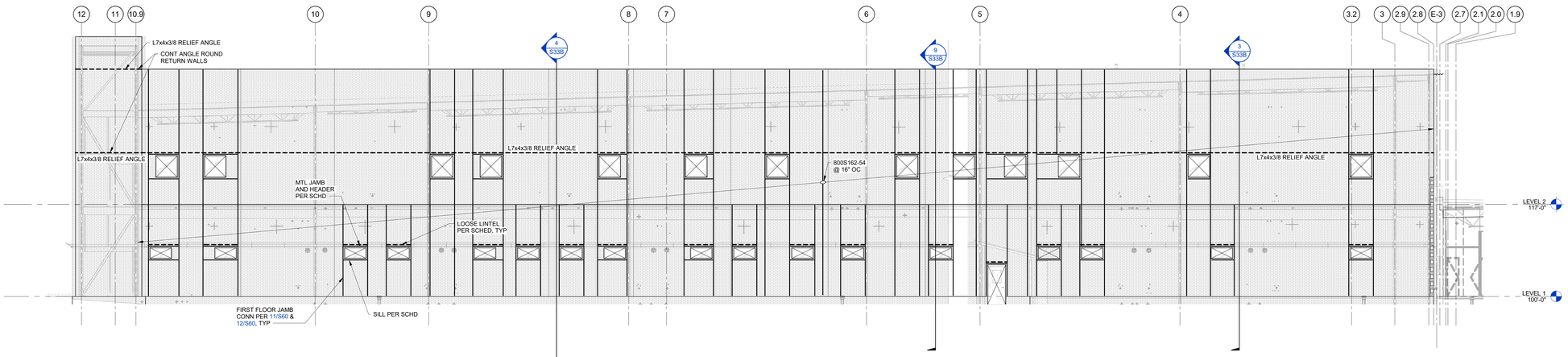
1. SEE PLAN NOTES AND PLAN SYMBOLS ON PLAN SHEETS FOR BALANCE OF INFORMATION
2. XX INDICATES WALL TYPE AS FOLLOW:
   RC: REINFORCED CONCRETE PER 1/S43
   CMU: CMU WALL PER 1/S45
   CFS: COLD FORMED STEEL WALL PER 1/S60
3. SEE 1/S60 FOR METAL STUDS WALL FRAMING AND CONNECTION DETAILS.



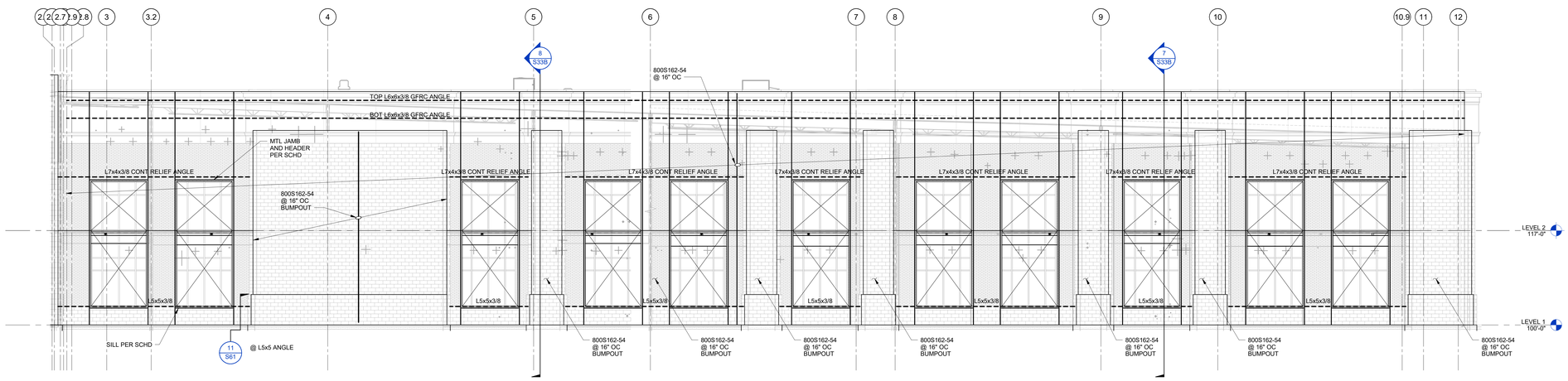
3 S30B **BUILDING ELEVATION - EAST**
1/8" = 1'-0"



1 S30B **BUILDING ELEVATION - WEST**
1/8" = 1'-0"



2 S30B **BUILDING ELEVATION - NORTH**
1/8" = 1'-0"



4 S30B **BUILDING ELEVATION - SOUTH**
1/8" = 1'-0"

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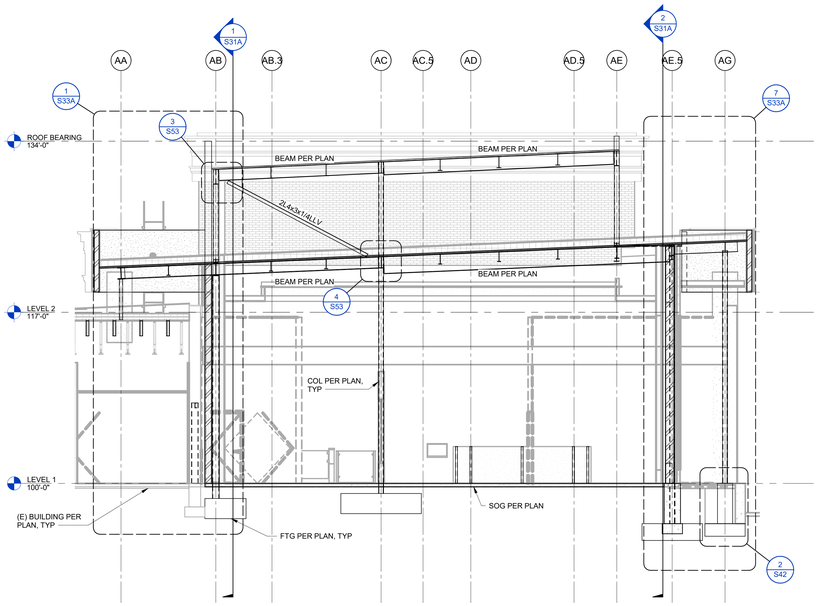
SHEET TITLE
BUILDING ELEVATION - AREA B

SHEET
S30B

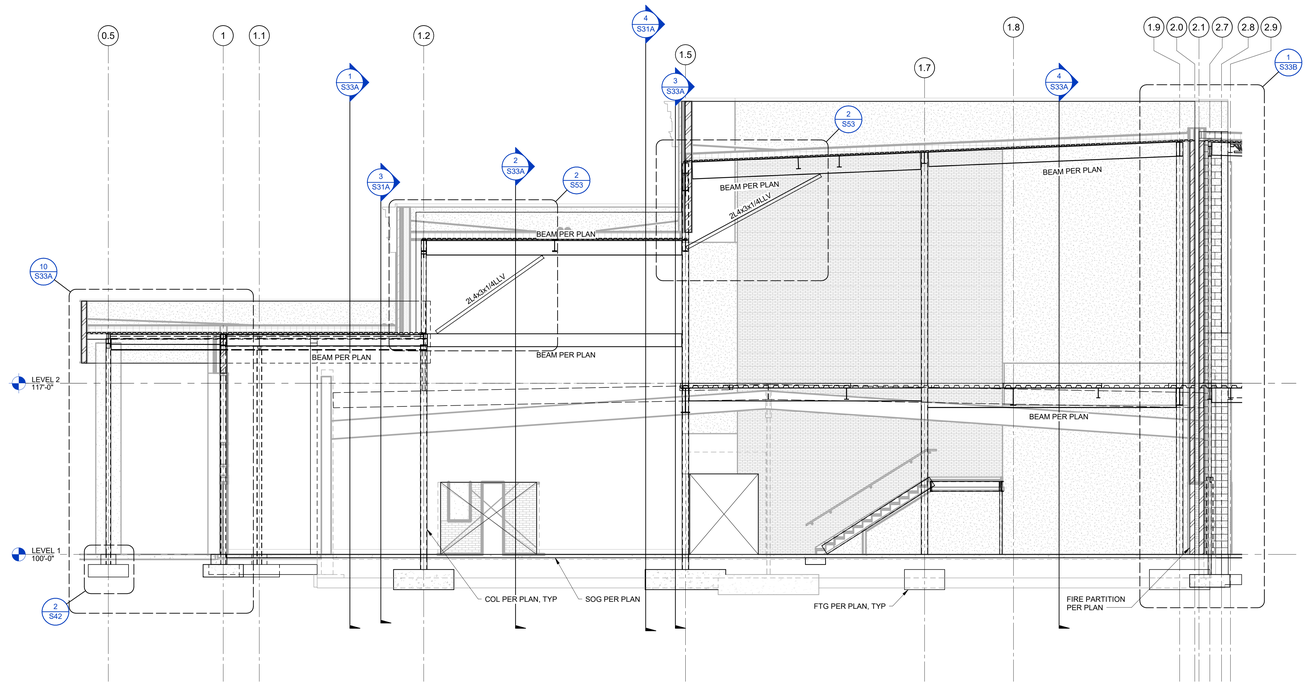
ORIGINAL SHEET SIZE
36" x 48"

ELEVATION NOTES:

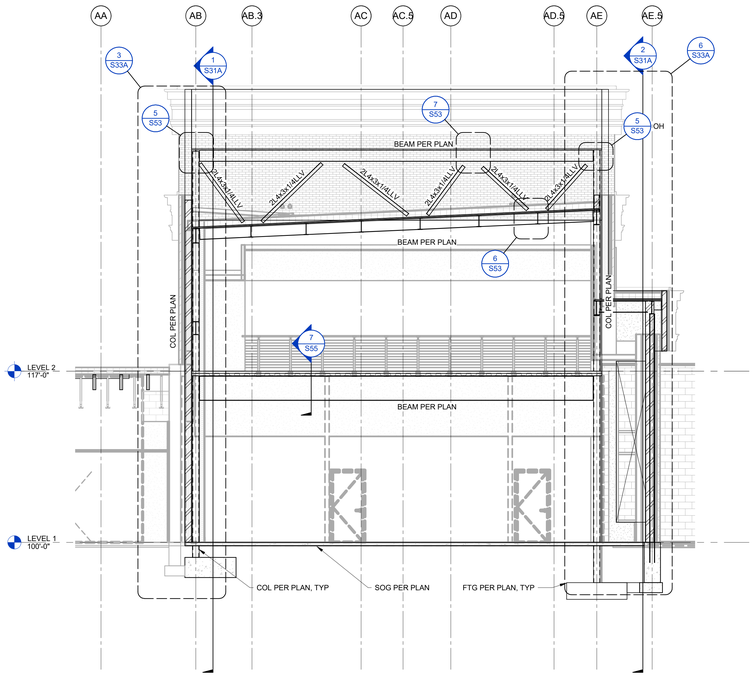
1. SEE PLAN NOTES AND PLAN SYMBOLS ON PLAN SHEETS FOR BALANCE OF INFORMATION
2. XX / # — XX INDICATES WALL TYPE AS FOLLOW:
   - RC: REINFORCED CONCRETE PER 1/S43
   - CMU: CMU WALL PER 1/S45
   - CFS: COLD FORMED STEEL WALL PER 1/S60
3. SEE 1/S60 FOR METAL STUDS WALL FRAMING AND CONNECTION DETAILS.



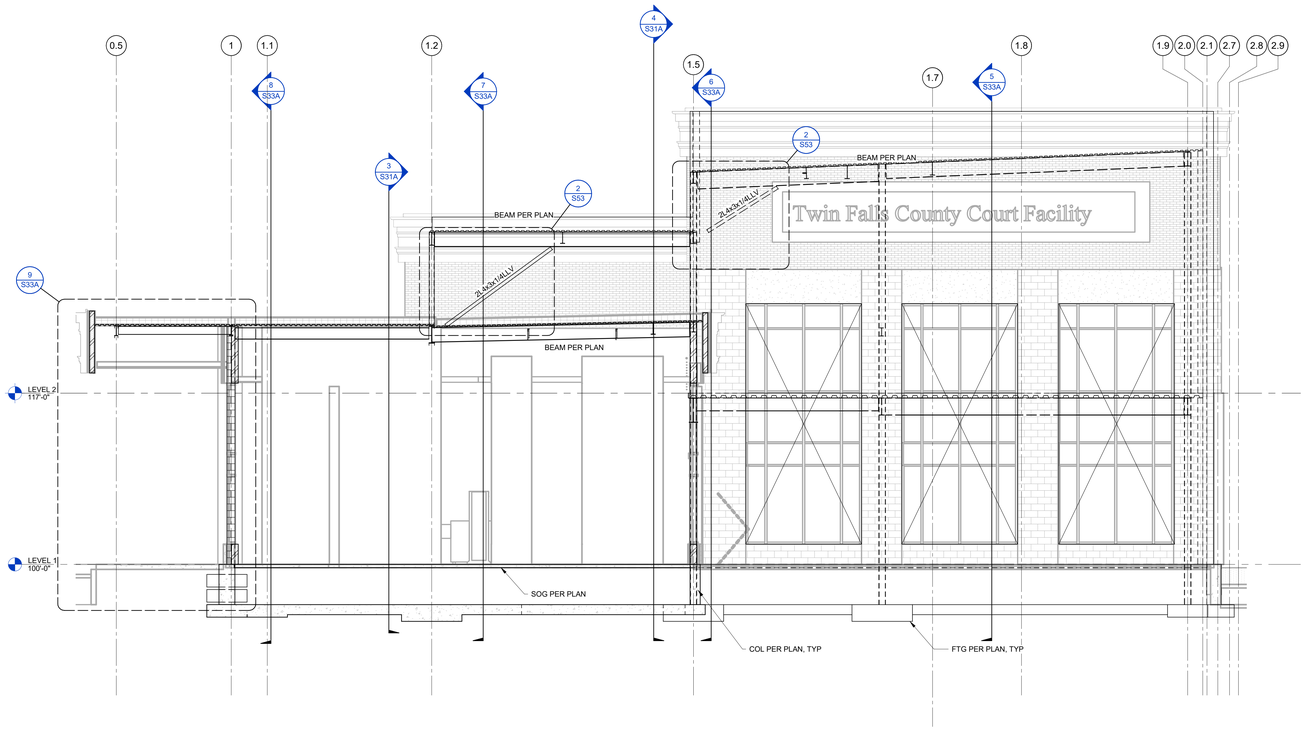
3 S31A SECTION
3/16" = 1'-0"



1 S31A SECTION
3/16" = 1'-0"



4 S31A SECTION
3/16" = 1'-0"



2 S31A SECTION
3/16" = 1'-0"

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SHEET TITLE
BUILDING SECTION - AREA A

SHEET
S31A

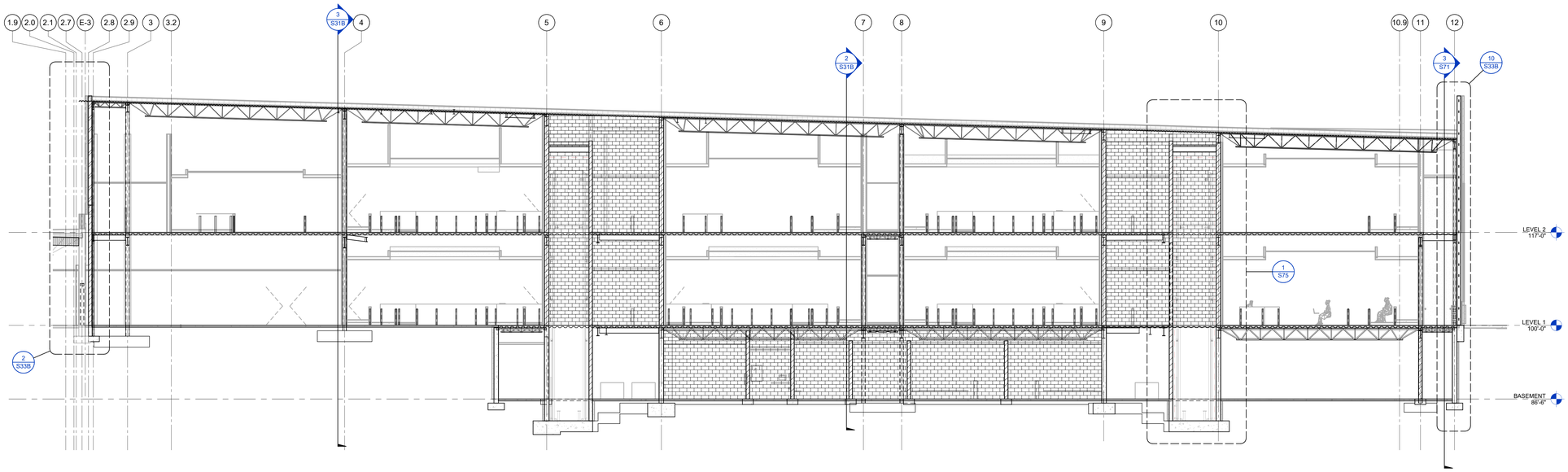
ORIGINAL SHEET SIZE
36" x 48"

ELEVATION NOTES:

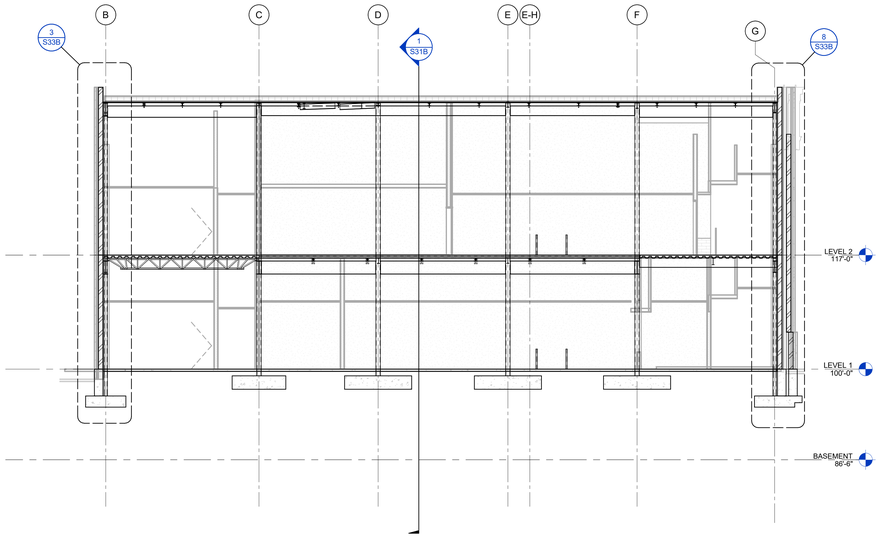
1. SEE PLAN NOTES AND PLAN SYMBOLS ON PLAN SHEETS FOR BALANCE OF INFORMATION

2. XX / # — XX INDICATES WALL TYPE AS FOLLOW:
RC: REINFORCED CONCRETE PER 1/S43
CMU: CMU WALL PER 1/S45
CFS: COLD FORMED STEEL WALL PER 1/S60

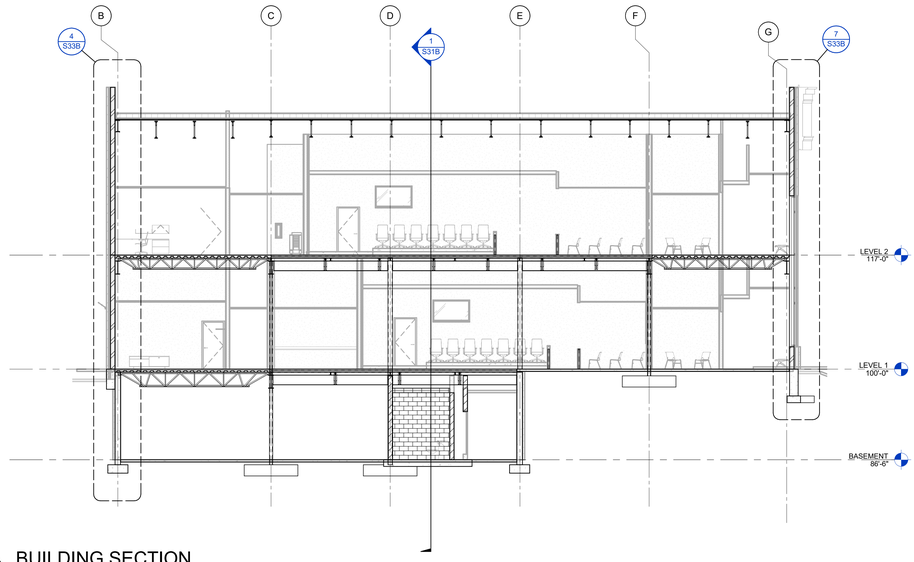
3. SEE 1/S60 FOR METAL STUDS WALL FRAMING AND CONNECTION DETAILS.



1 S31B BUILDING SECTION
1/8" = 1'-0"



3 S31B BUILDING SECTION
1/8" = 1'-0"



2 S31B BUILDING SECTION
1/8" = 1'-0"

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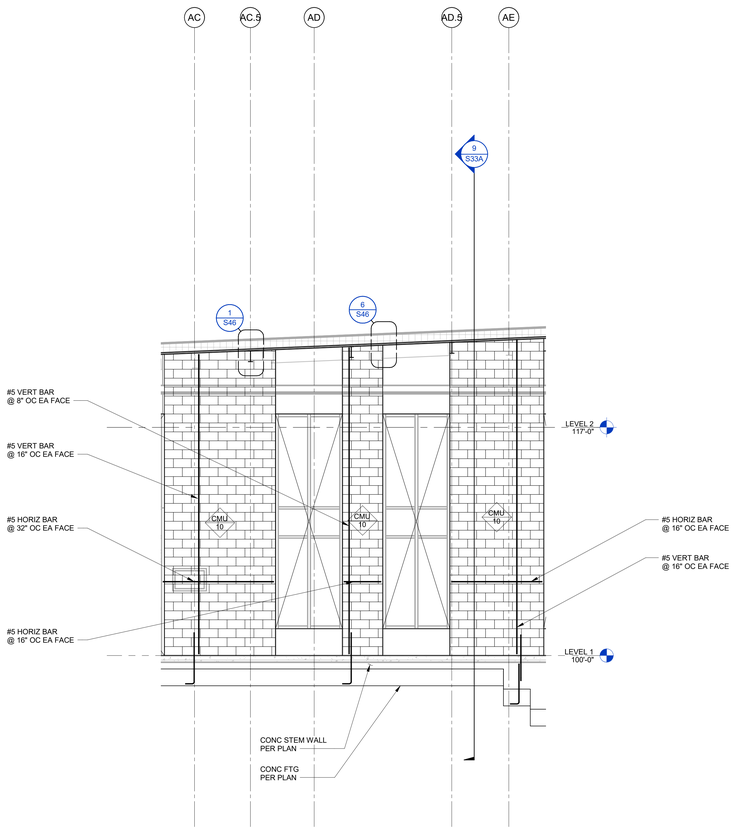
SHEET TITLE
BUILDING SECTION - AREA B

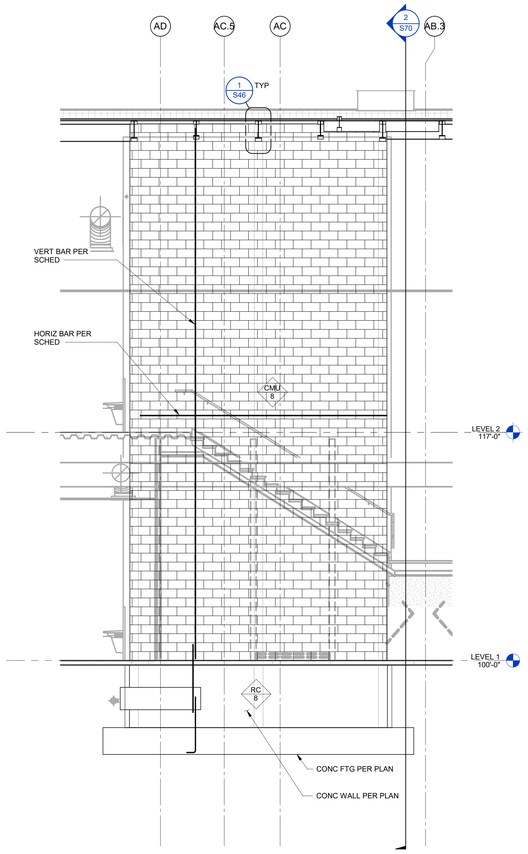
SHEET
S31B

ORIGINAL SHEET SIZE
36" x 48"

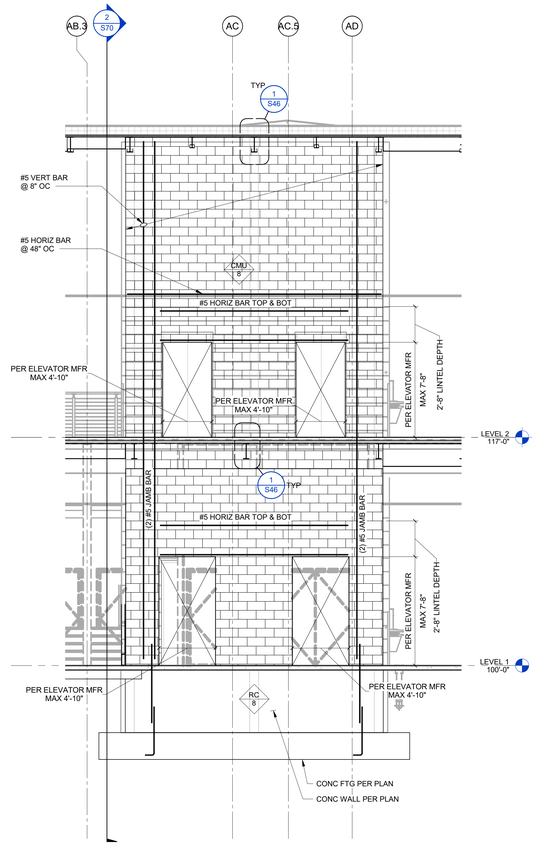
4/12/2023 5:12:55 PM



5 S32A WALL ELEVATION - WEST FACE
1/4" = 1'-0"



3 S32A WALL ELEVATION - EAST FACE
1/4" = 1'-0"



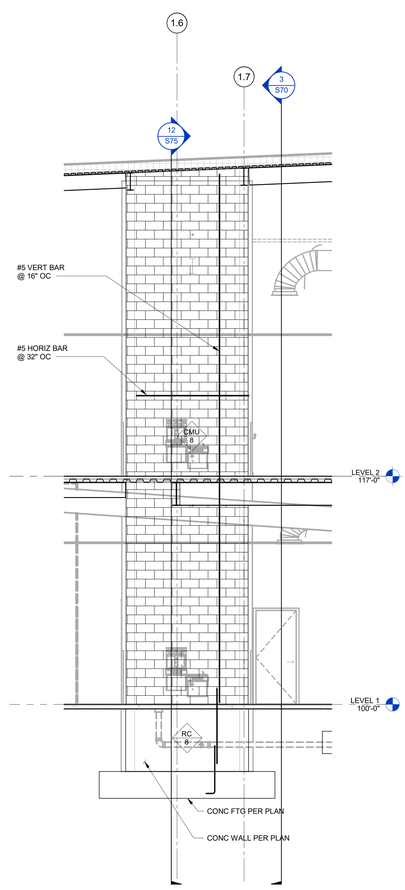
1 S32A WALL ELEVATION - WEST FACE
1/4" = 1'-0"

ELEVATION NOTES:

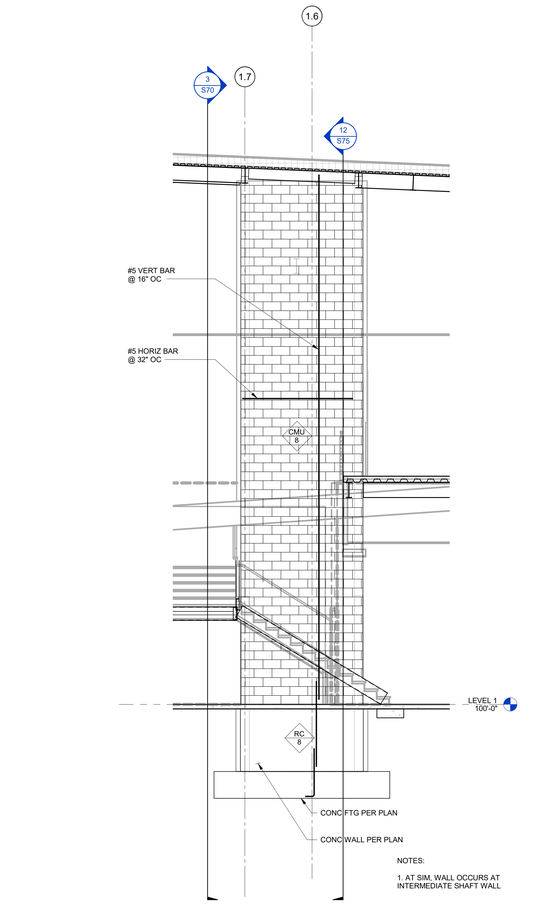
1. SEE PLAN NOTES AND PLAN SYMBOLS ON PLAN SHEETS FOR BALANCE OF INFORMATION

2. XX / # XX INDICATES WALL TYPE AS FOLLOW:
RC: REINFORCED CONCRETE PER 1/S43
CMU: CMU WALL PER 1/S45
CFS: COLD FORMED STEEL WALL PER 1/S60

3. SEE 1/S60 FOR METAL STUDS WALL FRAMING AND CONNECTION DETAILS.



4 S32A WALL ELEVATION - SOUTH FACE
1/4" = 1'-0"



2 S32A WALL ELEVATION - NORTH FACE
1/4" = 1'-0"

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PROJECT	DATE
102122000038	04-17-23
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412 E. Park Center Blvd.
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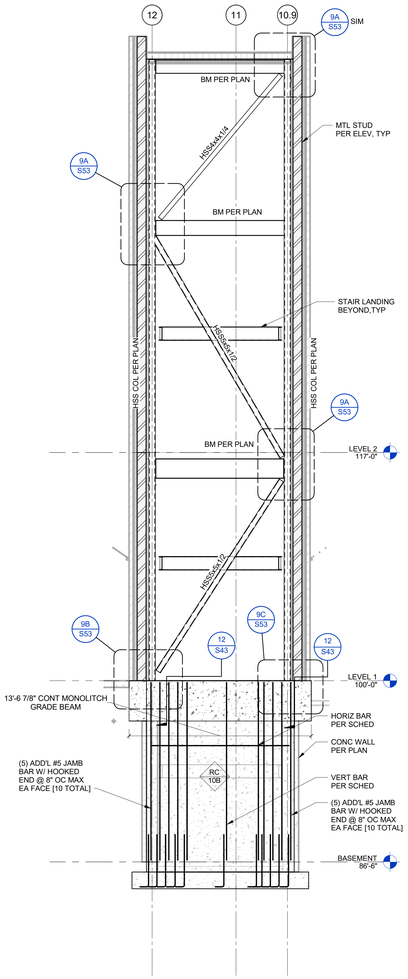
SHEET TITLE
CMU WALL ELEVATION - AREA A

SHEET
S32A

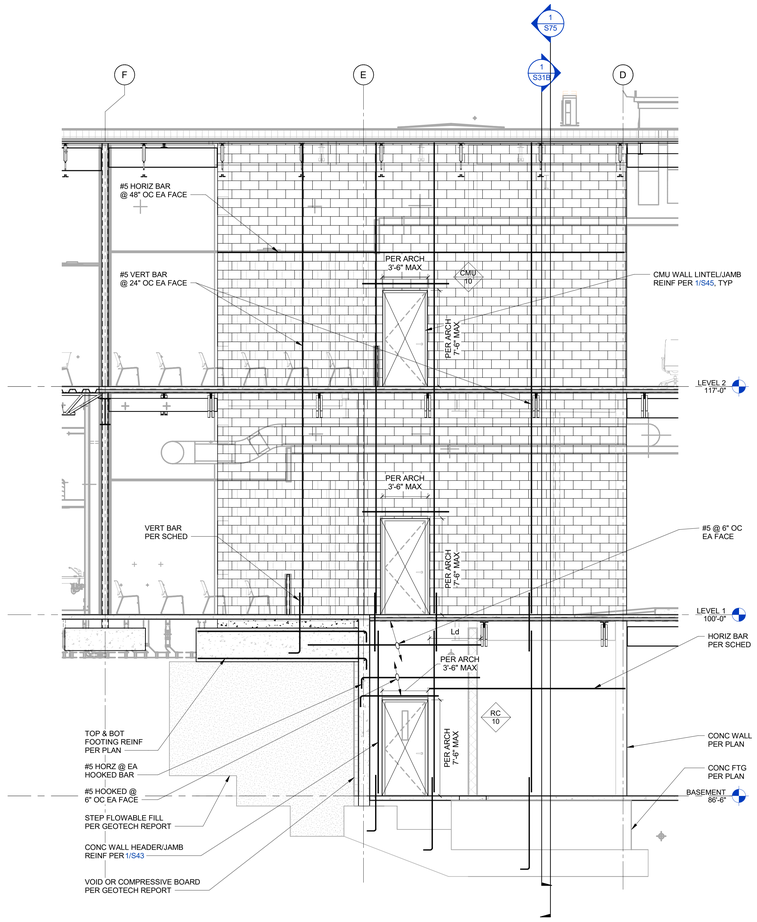
ORIGINAL SHEET SIZE
36" x 48"

4/12/2023 5:13:00 PM



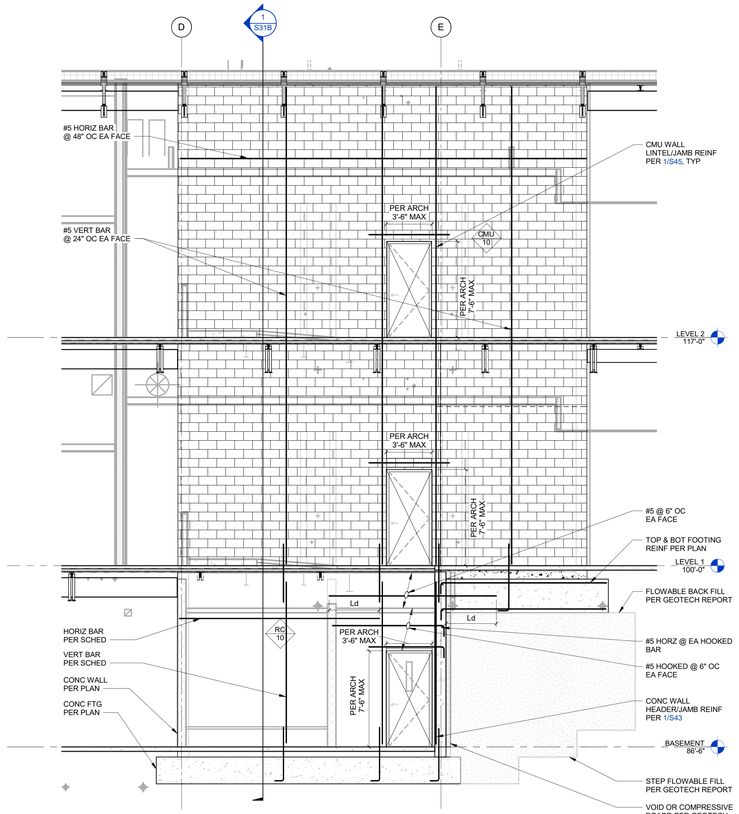
5 S32B BRACE FRAME ELEVATION- GRID A

1/4" = 1'-0"



3 S32B CMU ELEVATION - EAST FACE

1/4" = 1'-0"

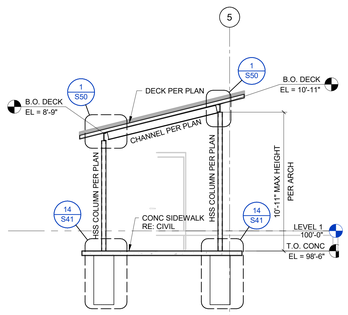


1 S32B CMU ELEVATION - WEST FACE

1/4" = 1'-0"

ELEVATION NOTES:

1. SEE PLAN NOTES AND PLAN SYMBOLS ON PLAN SHEETS FOR BALANCE OF INFORMATION
2. XX / # XX INDICATES WALL TYPE AS FOLLOW:
   RC: REINFORCED CONCRETE PER 1/S43
   CMU: CMU WALL PER 1/S45
   CFS: COLD FORMED STEEL WALL PER 1/S60
3. SEE 1/S60 FOR METAL STUDS WALL FRAMING AND CONNECTION DETAILS.

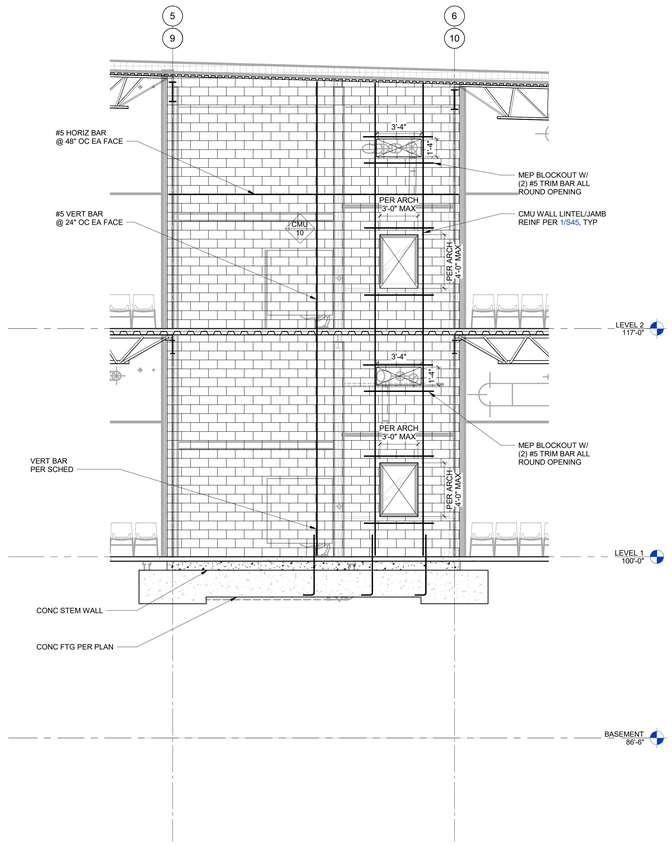


NOTES @ BREEZE WAY:

1. GALVANIZE METAL DECK.
2. PRIME AND PAINT STEEL MEMBER WITH EXTERIOR WEATHER RESISTANT PAINT.
3. ALL FASTENERS TO BE HOT-DIPPED GALVANIZED.

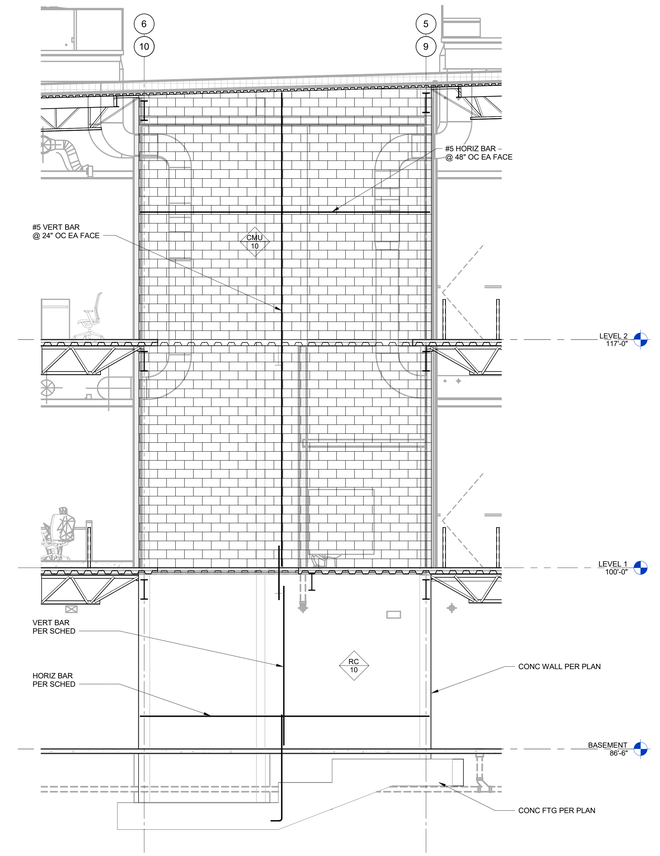
6 S32B BREEZEWAY ELEVATION

1/4" = 1'-0"



4 S32B CMU ELEVATION - SOUTH FACE

1/4" = 1'-0"



2 S32B CMU ELEVATION - NORTH FACE

1/4" = 1'-0"

4/12/2023 5:13:13 PM

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THERON W. WARD JUDICIAL BUILDING REMODEL & EXPANSION

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CSHQA

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PROJECT	DATE
10212200038	04-17-23
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PINN	NLP

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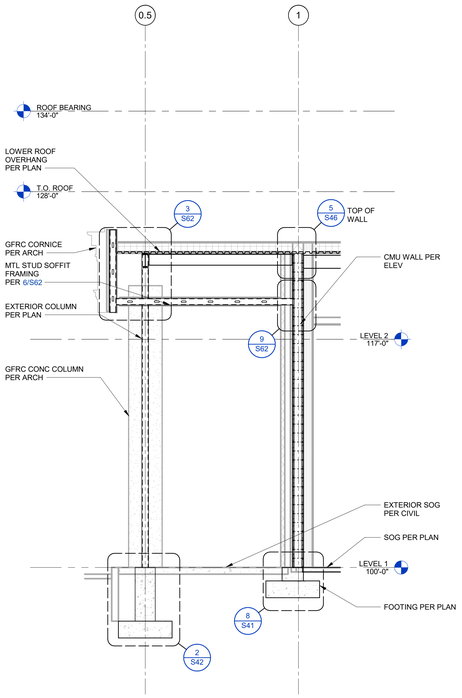
SHEET TITLE

CMU WALL ELEVATION - AREA B

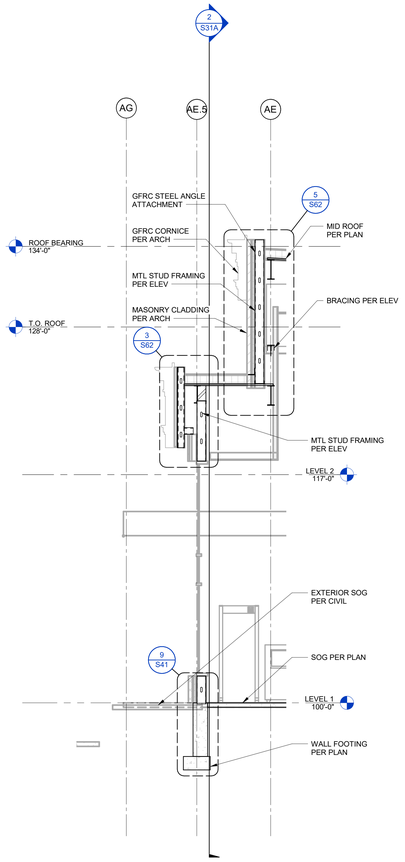
SHEET

S32B

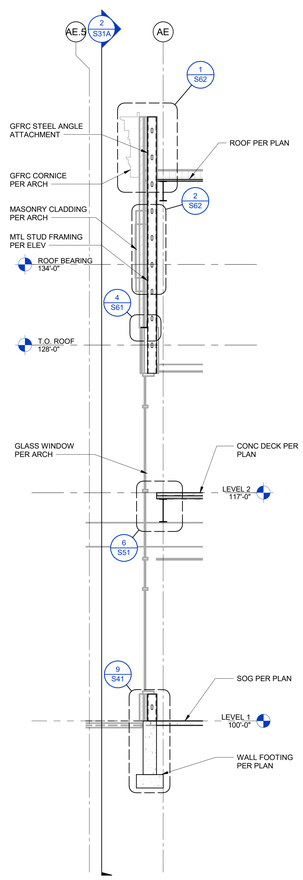
ORIGINAL SHEET SIZE 36" x 48"



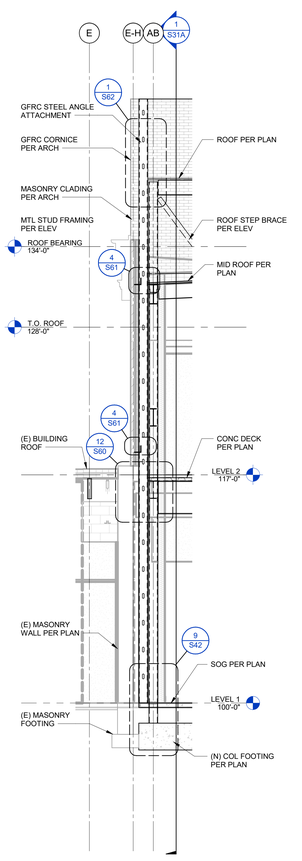
9 S33A SECTION
1/4" = 1'-0"



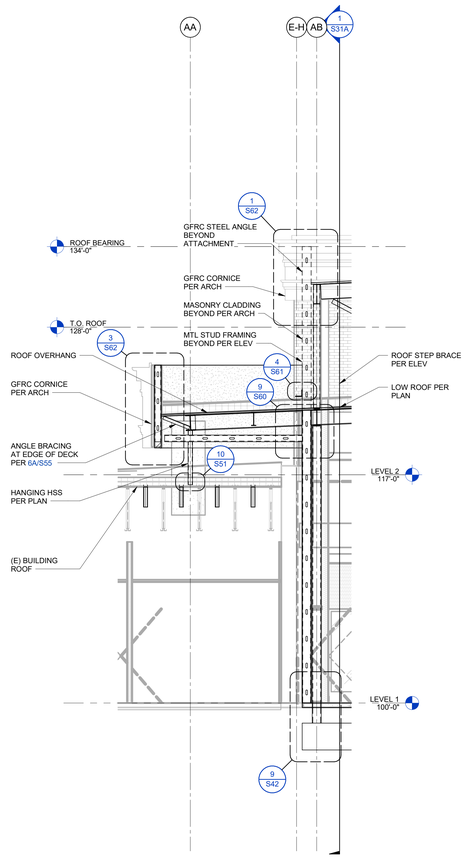
7 S33A SECTION
1/4" = 1'-0"



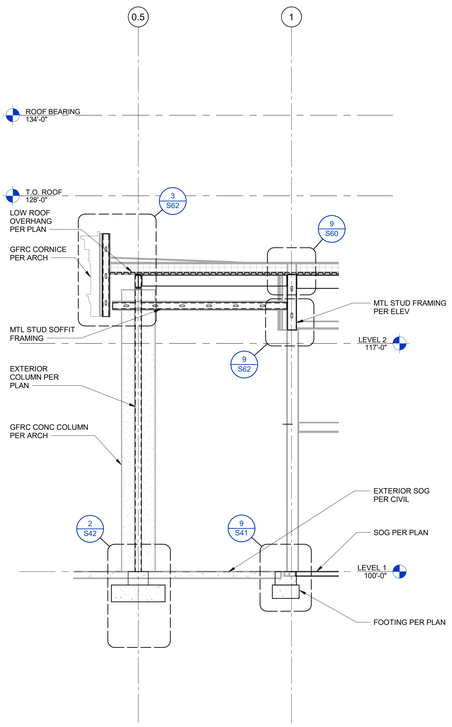
5 S33A SECTION
1/4" = 1'-0"



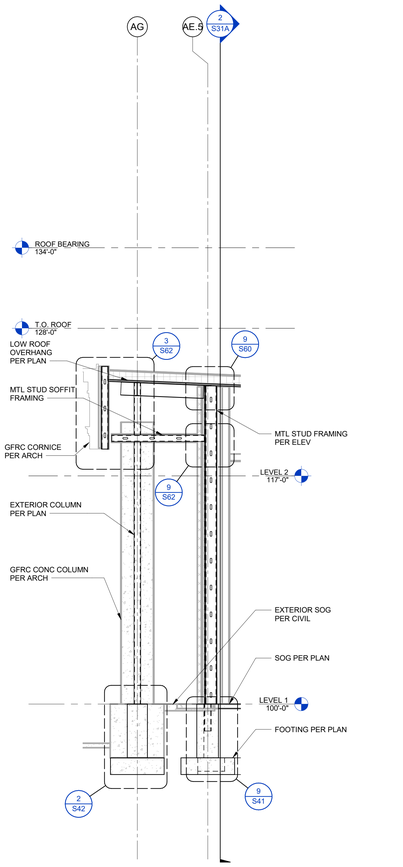
3 S33A SECTION
1/4" = 1'-0"



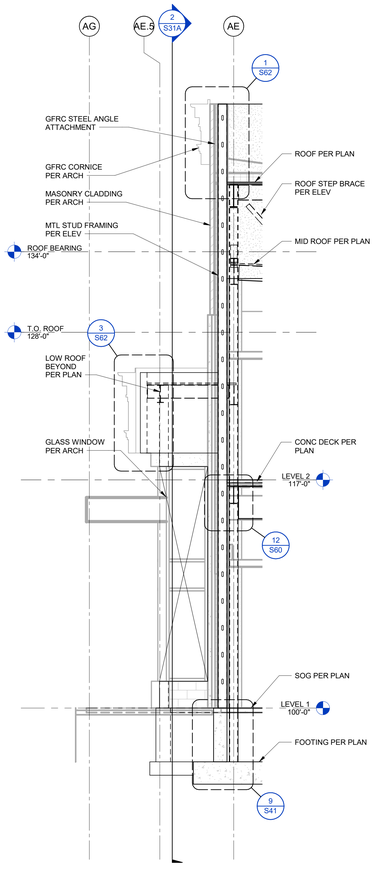
1 S33A SECTION
1/4" = 1'-0"



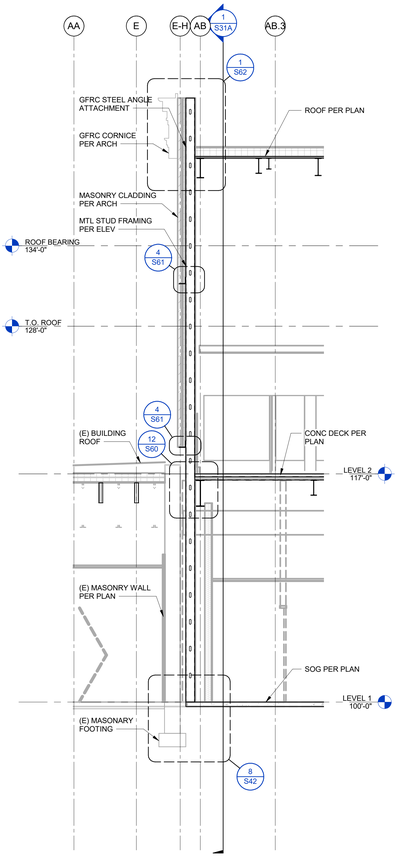
10 S33A SECTION
1/4" = 1'-0"



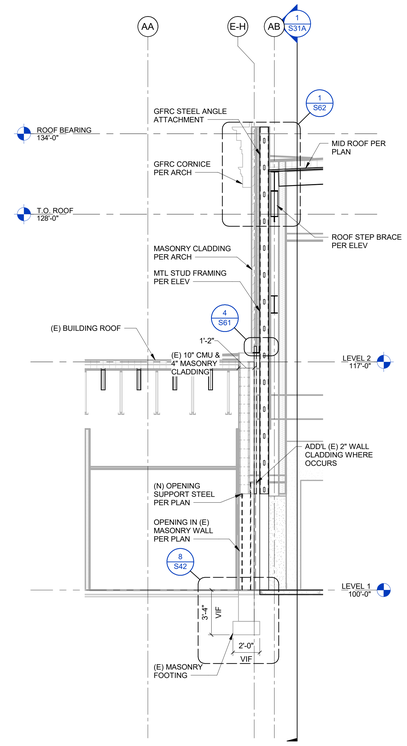
8 S33A SECTION
1/4" = 1'-0"



6 S33A SECTION
1/4" = 1'-0"



4 S33A SECTION
1/4" = 1'-0"



2 S33A SECTION
1/4" = 1'-0"

4/12/2023 5:12:21 PM

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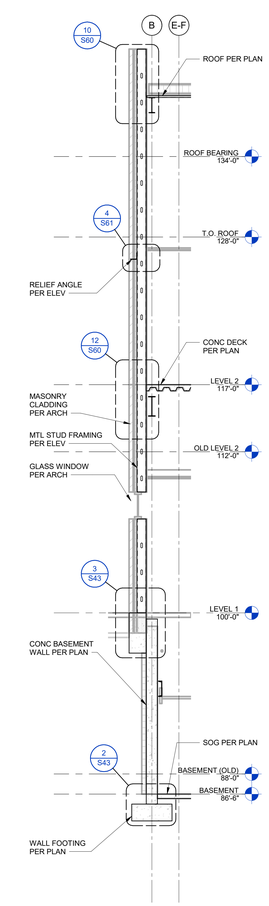
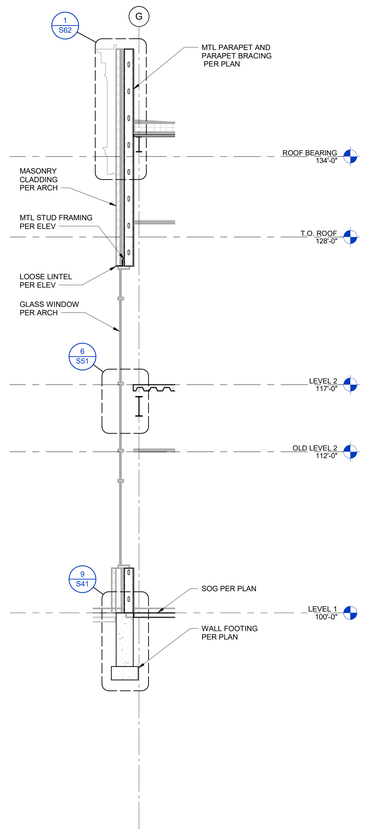
SHEET TITLE
WALL SECTIONS - AREA A

SHEET
S33A

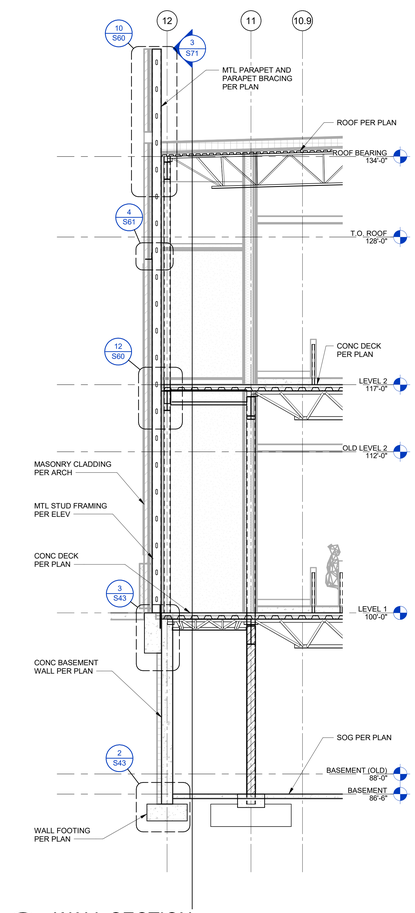
ORIGINAL SHEET SIZE
36" x 48"



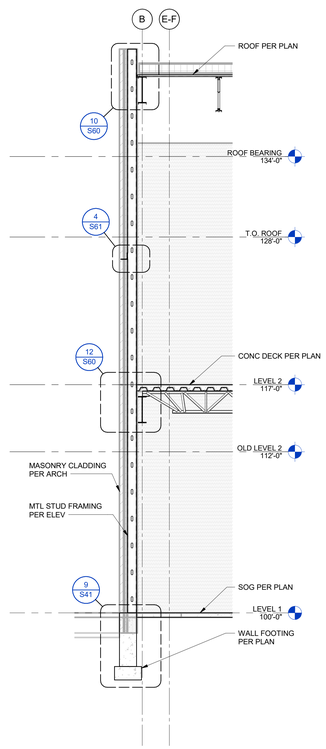
9 S33B **WALL SECTION** 1/4" = 1'-0"



7 S33B **WALL SECTION** 1/4" = 1'-0"



5 S33B **WALL SECTION** 1/4" = 1'-0"



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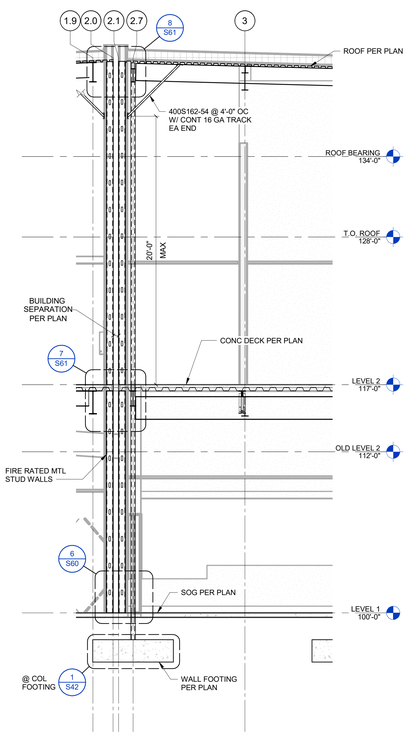
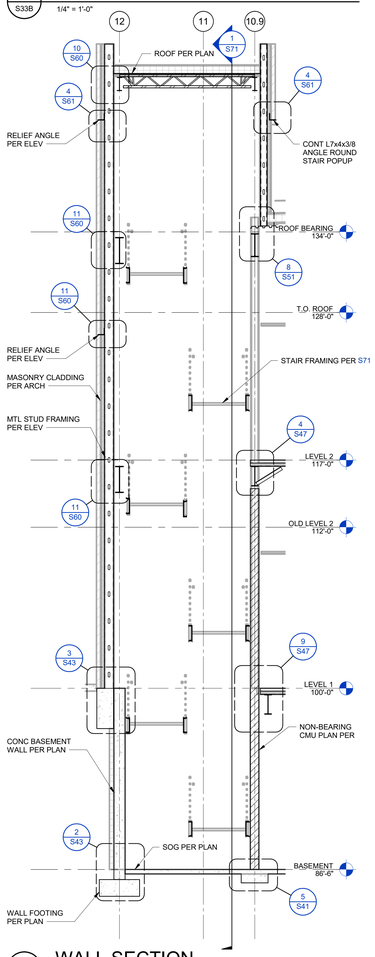
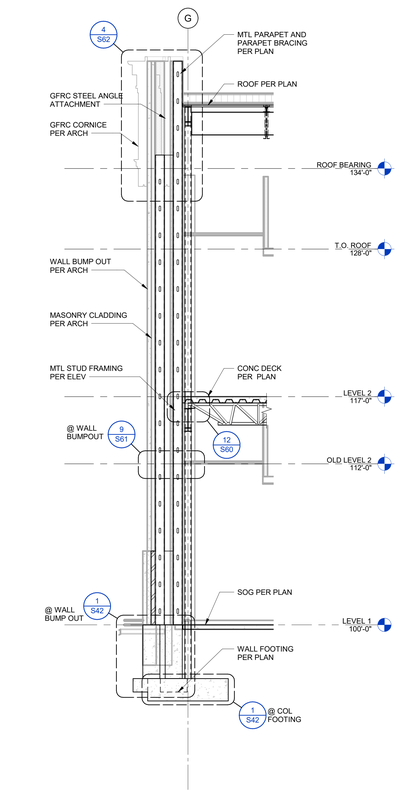


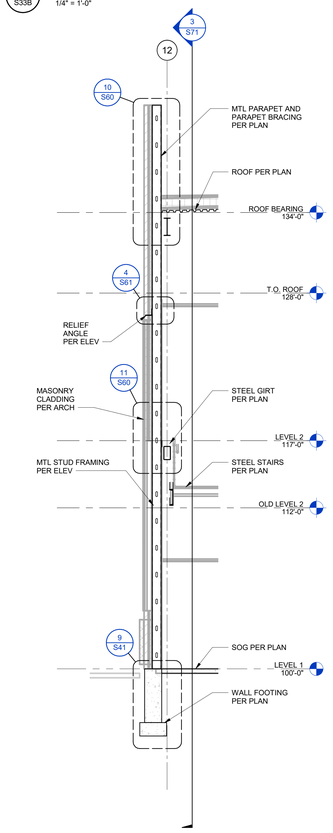
1 S33B **WALL SECTION** 1/4" = 1'-0"



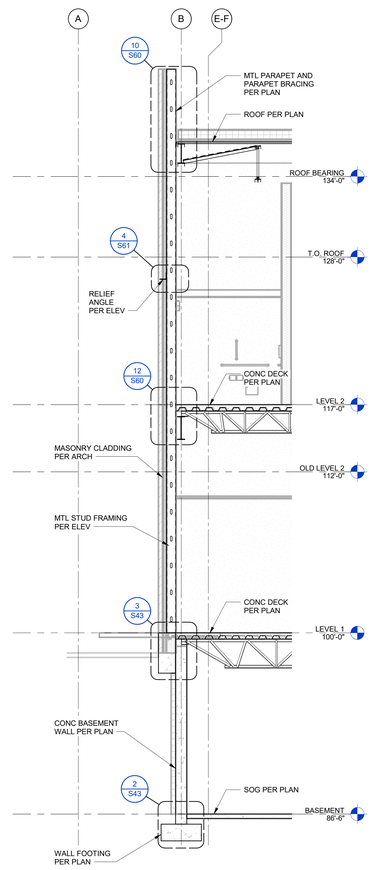
10 S33B **WALL SECTION** 1/4" = 1'-0"



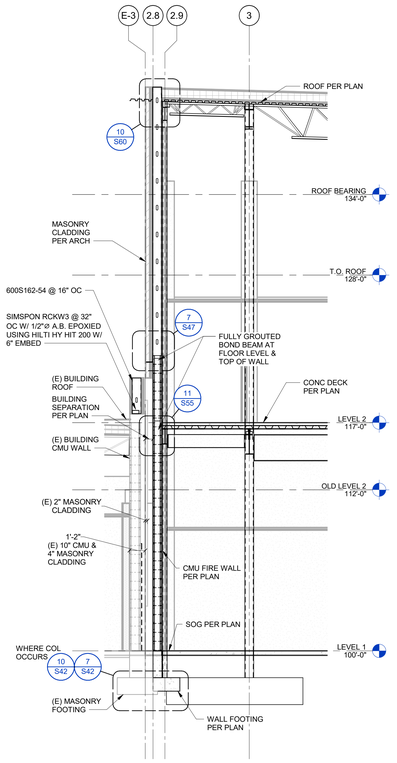
8 S33B **WALL SECTION** 1/4" = 1'-0"



6 S33B **WALL SECTION** 1/4" = 1'-0"



4 S33B **WALL SECTION** 1/4" = 1'-0"



2 S33B **WALL SECTION** 1/4" = 1'-0"

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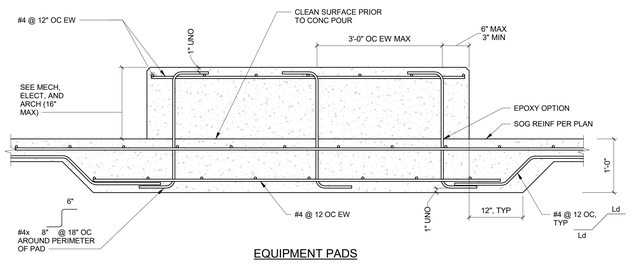
SHEET TITLE
WALL SECTIONS - AREA B

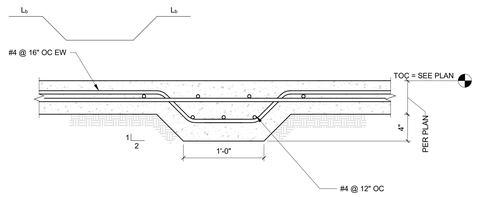
SHEET
S33B

ORIGINAL SHEET SIZE
36" x 48"

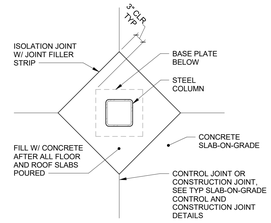
4/12/2023 5:13:34 PM



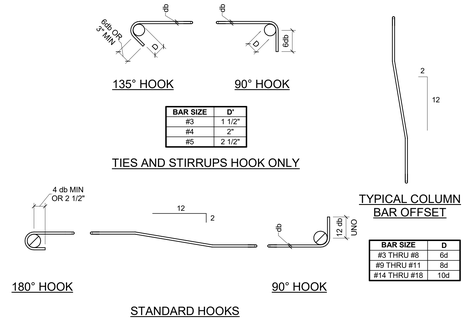
EQUIPMENT PADS



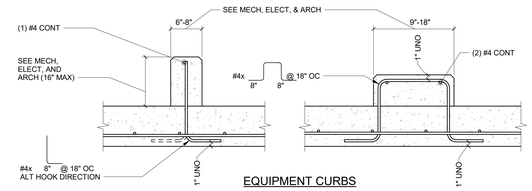
8 S40 THICKENED SLAB-ON-GRADE
1 1/2" = 1'-0"



4 S40 TYP ISOLATION JOINT DETAIL AT STEEL COL
3/4" = 1'-0"



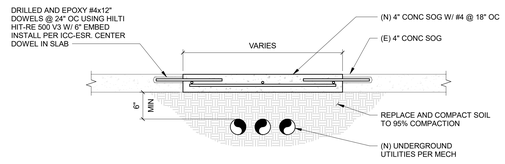
1 S40 REINFORCING BAR BENDING DETAIL
1" = 1'-0"



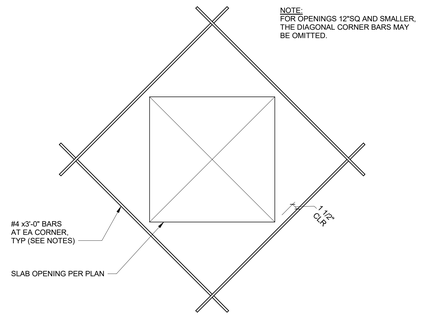
EQUIPMENT CURBS

NOTES:
1. EQUIPMENT PAD SIZE TO BE 6" LARGER THAN EQUIPMENT IN EACH DIRECTION, UNO.
2. COORDINATE EXACT SIZE AND LOCATION OF CURB AND PADS WITH EQUIPMENT PROVIDED.

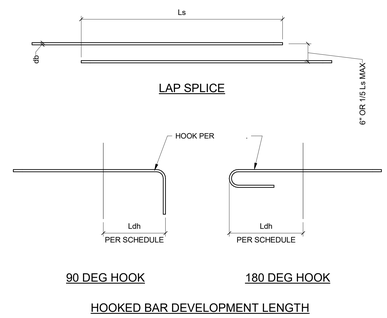
11 S40 TYP EQUIPMENT CURBS & PADS
1" = 1'-0"



9 S40 SOG - UNDERGROUND UTILITIES
1" = 1'-0"



5 S40 TYPICAL OPENING IN SLAB ON GRADE
1" = 1'-0"

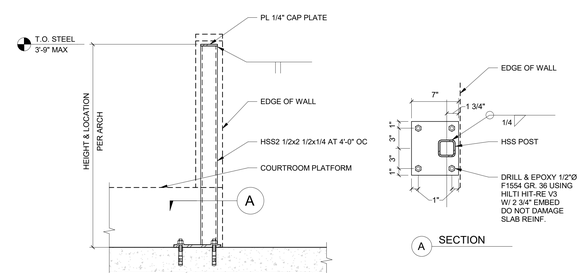


BAR SIZE	TOP BARS		OTHERS BARS		L_{dh}	L_{dt}
	L_d	L_s	L_d	L_s		
#4	25"	32"	19"	25"	9"	8"
#5	31"	40"	24"	31"	12"	10"
#6	37"	48"	28"	37"	14"	12"
#7	54"	70"	42"	54"	17"	14"
#8	62"	80"	47"	62"	19"	16"
#9	70"	90"	54"	70"	21"	18"
#10	78"	102"	60"	78"	24"	20"
#11	87"	113"	67"	87"	27"	22"

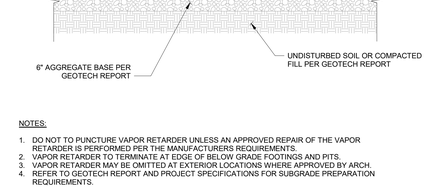
NOTES:
1. USE THE LENGTHS IN THIS SCHEDULE, UNLESS NOTED OTHERWISE.
2. A TOP BAR IS A HORIZONTAL BAR WITH MORE THAN 12" OF FRESH CONCRETE CAST BELOW IT.

ABBREVIATIONS
d_b = BAR DIAMETER
L_d = DEVELOPMENT LENGTH
L_s = CLASS B LAP SPLICE LENGTH
L_{dh} = HOOKED BAR DEVELOPMENT LENGTH
L_{dt} = TERMINATOR DEVELOPMENT LENGTH

2 S40 DEVELOPMENT AND SPLICE LENGTH
1" = 1'-0"

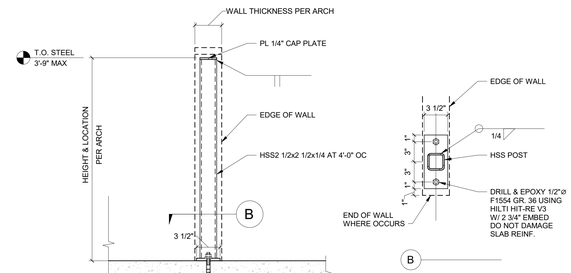


10A POST AT PLATFORM
1 1/2" = 1'-0"

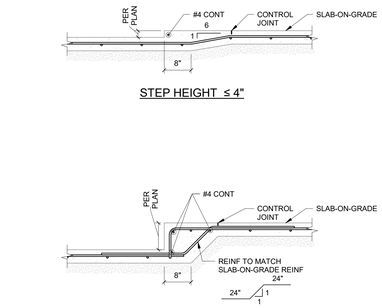


NOTES:
1. DO NOT TO PUNCTURE VAPOR RETARDER UNLESS AN APPROVED REPAIR OF THE VAPOR RETARDER IS PERFORMED PER THE MANUFACTURERS REQUIREMENTS.
2. VAPOR RETARDER TO TERMINATE AT EDGE OF BELOW GRADE FOOTINGS AND PITS.
3. VAPOR RETARDER MAY BE OMITTED AT EXTERIOR LOCATIONS WHERE APPROVED BY ARCH.
4. REFER TO GEOTECH REPORT AND PROJECT SPECIFICATIONS FOR SUBGRADE PREPARATION REQUIREMENTS.

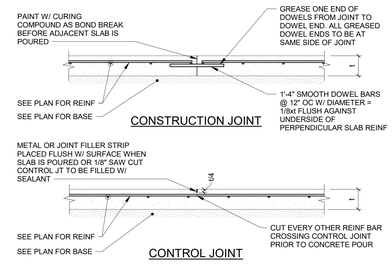
6 S40 TYPICAL SLAB ON GRADE
1" = 1'-0"



10B POST IN WALL
1 1/2" = 1'-0"



7 S40 TYP SLAB-ON-GRADE STEP
3/4" = 1'-0"



NOTES:
1. REFER TO PLAN FOR SLAB THICKNESS AND REINFORCING.
2. WHERE CONTROL JOINTS ARE NOT SHOWN ON PLAN, PROVIDE CONTROL JOINTS SPACED @ 10'-0" MAX, EACH WAY, UNLESS NOTED OTHERWISE. RATIO OF DISTANCE BETWEEN CONTROL JOINTS IN EACH DIRECTION FOR A SLAB PANEL SHALL NOT EXCEED 1.5. CONSTRUCTION JOINTS PER THIS DETAIL SHALL BE CONSIDERED AS CONTROL JOINTS FOR CONTROL JOINT SPACING REQUIREMENTS.

3 S40 TYP SOG CONTROL & CONSTRUCTION JOINTS
3/4" = 1'-0"

10 S40 COURTROOM RAILING SUPPORT AT SOG
1 1/2" = 1'-0"

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PROFESSIONAL ENGINEER REGISTERED 12033 STATE OF IDAHO KAREN M. WILLIAMS

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DRAWN	CHECKED
PINN	NLP

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1 Revision 1 Date 1

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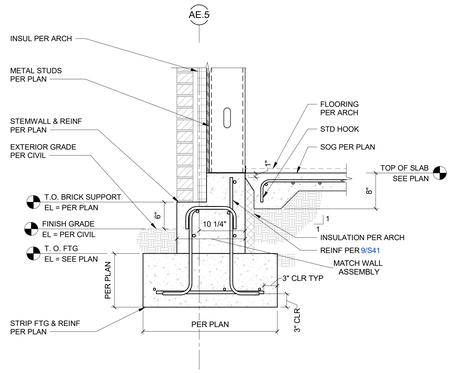
SHEET TITLE
CONCRETE DETAILS

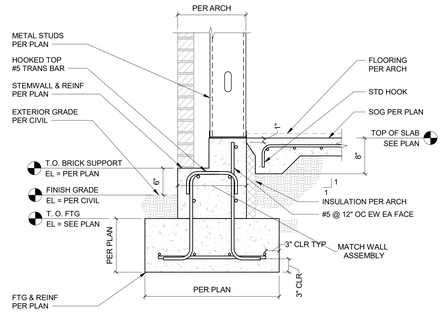
SHEET
S40

ORIGINAL SHEET SIZE
36" x 48"



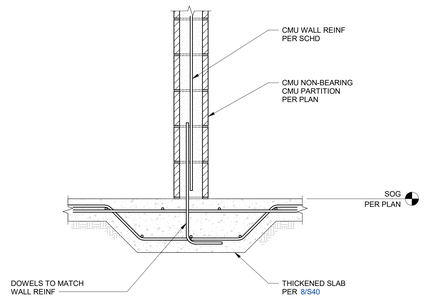
13 S41 STEM WALL AT GRID AE.5

1" = 1'-0"



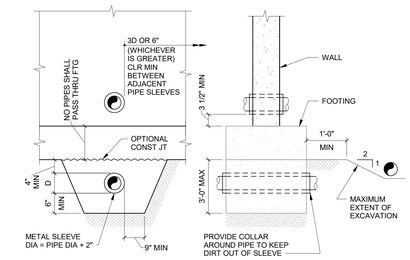
9 S41 TYPICAL STEM WALL (METAL STUDS)

1" = 1'-0"



5 S41 NON-BEARING CMU PARTITIONS

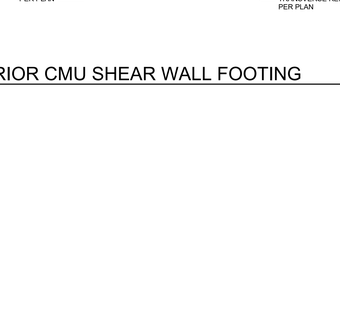
1" = 1'-0"



NOTES:
1. STEP FOOTING PER TYPICAL STEPPED FOOTING DETAIL AS REQUIRED TO SATISFY THESE CONDITIONS.
2. GENERAL CONTRACTOR TO COORDINATE EXACT DEPTH AND LOCATION OF PIPE.
3. "D" SHALL NOT EXCEED 8".

1 S41 TYP DETAIL OF PIPE AT FOOTINGS

3/4" = 1'-0"

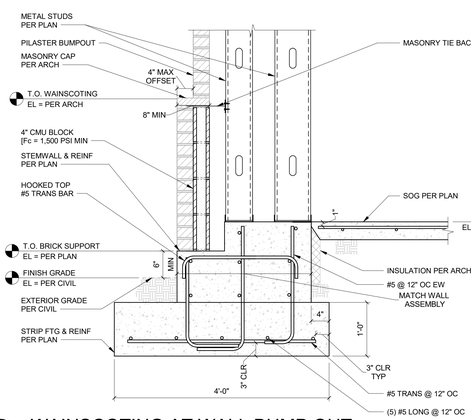


FOOTING TYPE	MEMBER SIZE	H	B	D	VERT BAR
BREEZEWAY	PER PLAN	13'-0" MAX	1'-6"	4'-0"	(4)#4

NOTE:
1. USE NON-DESTRUCTIVE TESTING METHODS TO LOCATE EXISTING REINFORCING IN CONCRETE FOUNDATION. DO NOT DAMAGE EXISTING REINFORCING. INSTALL ANCHOR PER ICC-ES ESR-4868 REPORT. ALL STEEL & FASTENERS TO BE GALV.

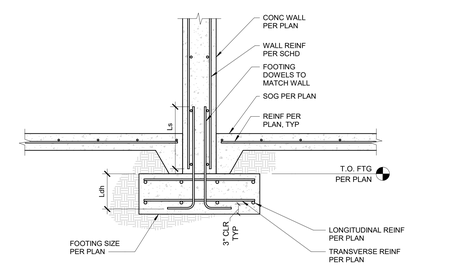
14 S41 POLE FOOTING

1" = 1'-0"



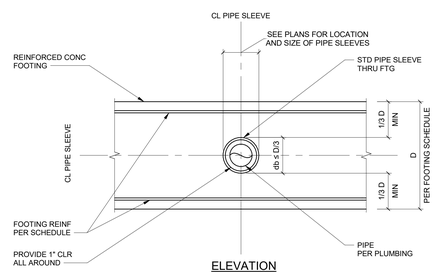
10 S41 TYPICAL STEM WALL AT ALL ENTRIES

1" = 1'-0"



6 S41 TYPICAL INTERIOR CONCRETE WALL FOOTING

3/4" = 1'-0"

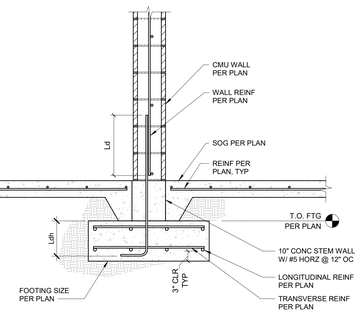


NOTE:

PENETRATIONS THROUGH FOOTINGS ARE PERMITTED ONLY AS INDICATED ON FLOOR PLANS. ANY ADDITIONAL PENETRATION SHALL BE REVIEWED AND APPROVED BY THE SEOR PRIOR TO INSTALLATION.

2 S41 PIPE SLEEVE THRU CONCRETE FOOTING

1" = 1'-0"

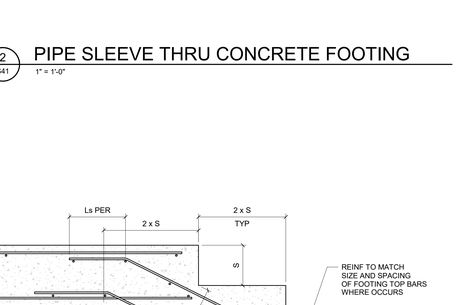


15 S41 INTERIOR CMU SHEAR WALL FOOTING

3/4" = 1'-0"

11 S41 WAINSCOTING AT WALL BUMP OUT

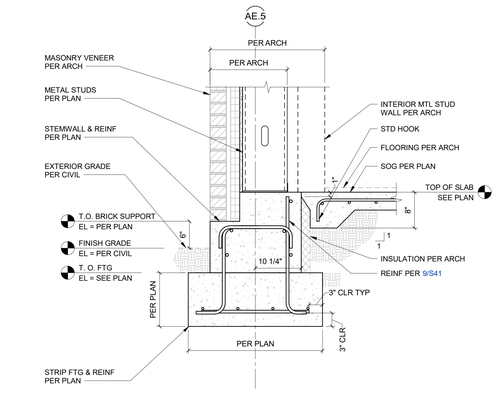
1" = 1'-0"



TOP AND BOTTOM REINFORCING

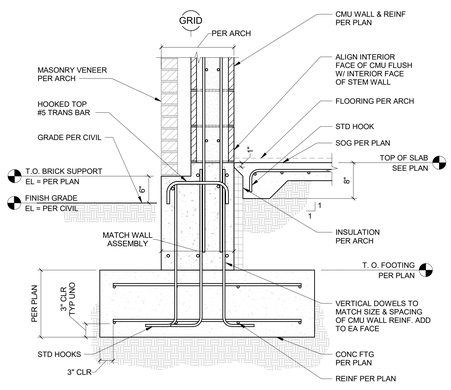
3 S41 TYP STEPPED FOOTING DETAIL

NO SCALE



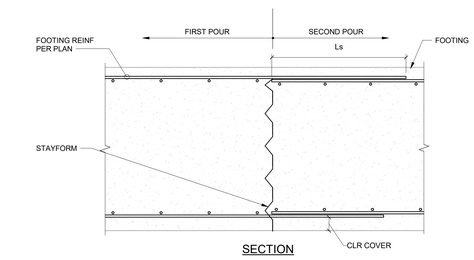
12 S41 STEM WALL AT GRID AE.5

1" = 1'-0"



8 S41 EXTERIOR CMU WALL FOOTING

1" = 1'-0"



NOTE:

WHERE CONTINUOUS FOOTING IS UNDER A WALL, LOCATE CONSTRUCTION JOINT AT 1/4 OF THE CLEAR OPENING WIDTH ABOVE FROM FACE OF OPENING, OR IN MIDDLE 1/3 OF THE DISTANCE BETWEEN COLUMNS.

4 S41 CONT FOOTING CONSTRUCTION JOINT

1" = 1'-0"

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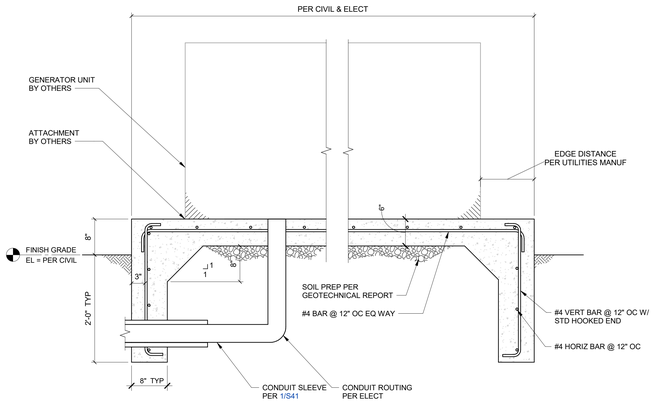
SHEET TITLE

CONCRETE DETAILS - FOUNDATION

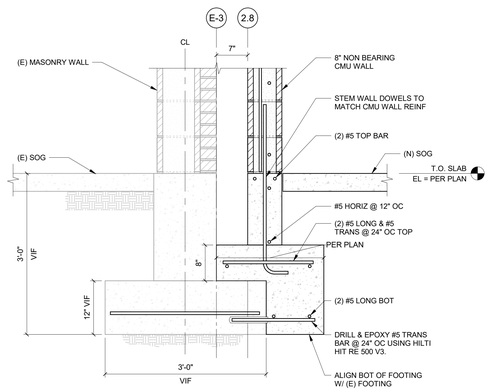
SHEET

S41

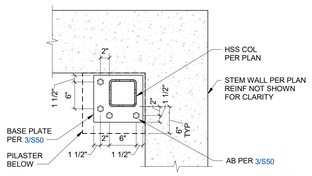
ORIGINAL SHEET SIZE
36" x 48"



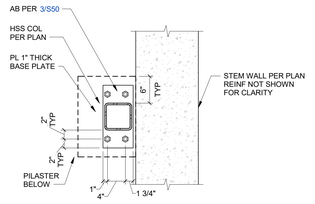
11 S42 TRANSFORMER UNIT & GENERATOR FOOTING
1" = 1'-0"



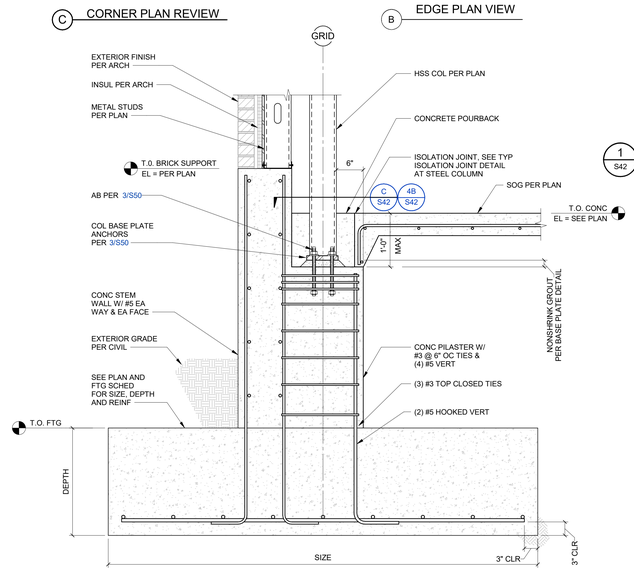
7 S42 CMU FIRE WALL FOOTING
1" = 1'-0"



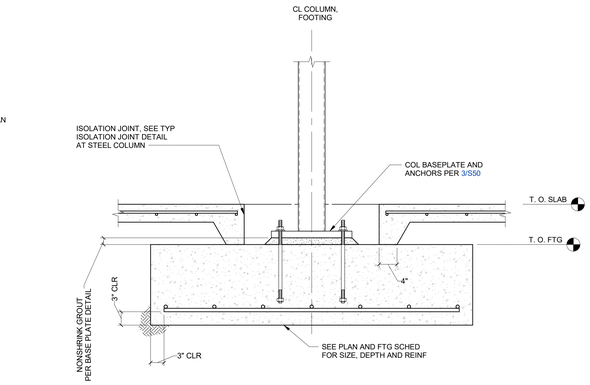
C CORNER PLAN REVIEW



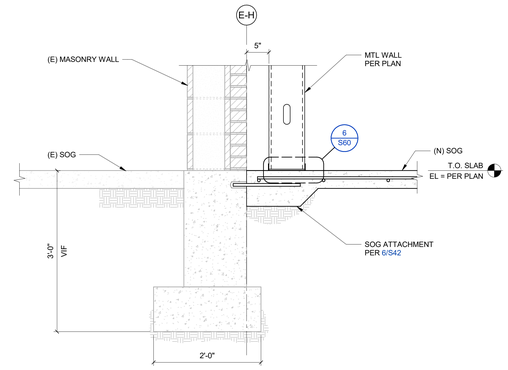
B EDGE PLAN VIEW



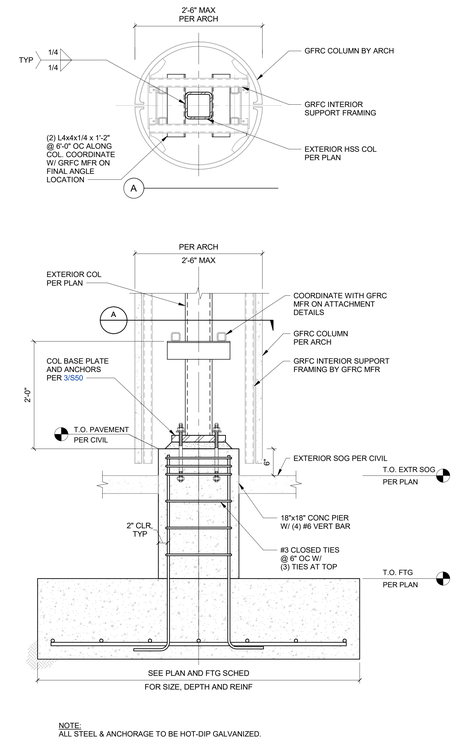
A SECTION



1 S42 TYP STEEL COLUMN FOOTING
1" = 1'-0"

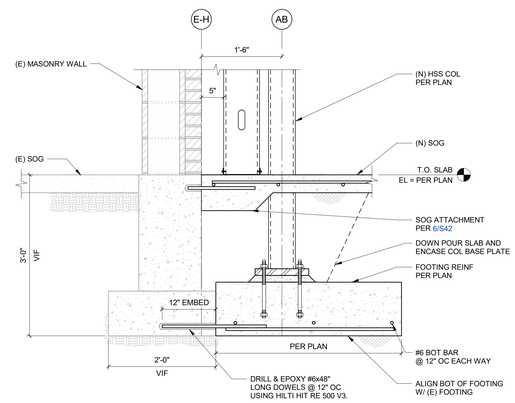


METAL STUD WALL ADJACENT TO EXISTING BUILDING
8 S42 1" = 1'-0"

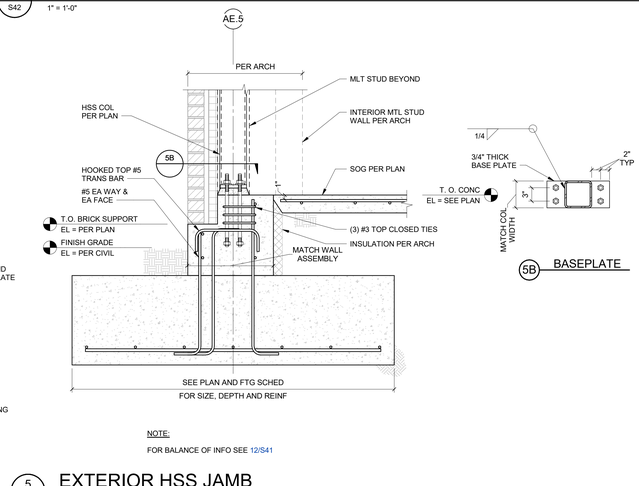


NOTE:
ALL STEEL & ANCHORAGE TO BE HOT-DIP GALVANIZED.

2 S42 EXTERIOR STEEL COLUMN FOOTING
1" = 1'-0"



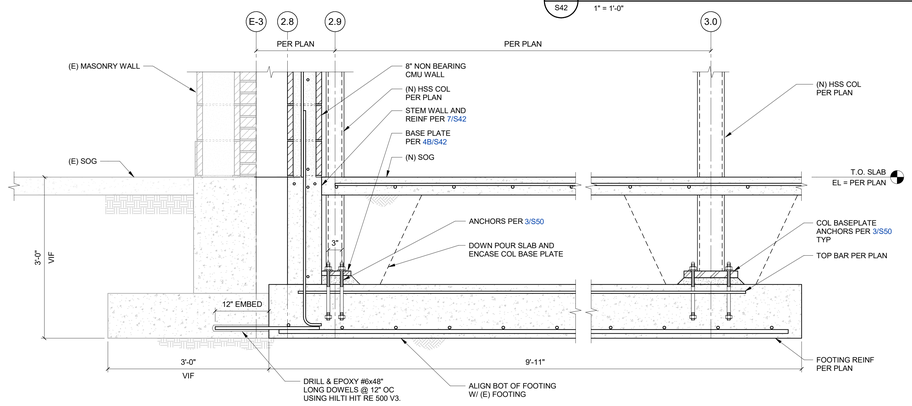
9 S42 HSS FOOTING ADJACENT TO EXISTING FOOTING
1" = 1'-0"



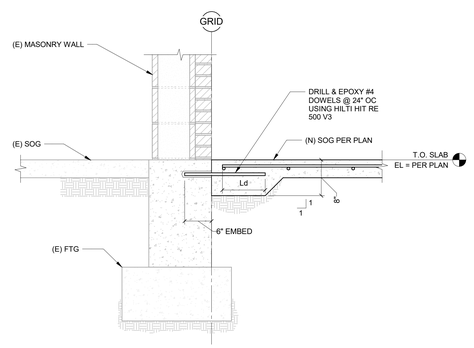
NOTE:
FOR BALANCE OF INFO SEE 12/S41

4 S42 TYP EXTERIOR HSS COLUMN BASE PLATE
1" = 1'-0"

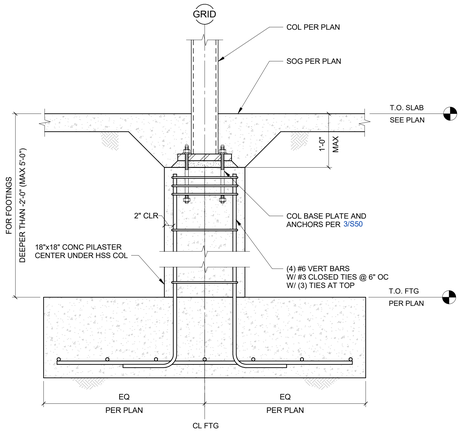
5 S42 EXTERIOR HSS JAMB
1" = 1'-0"



10 S42 COMBINED HSS FOOTING ADJACENT TO EXISTING FOOTING
1" = 1'-0"



6 S42 NEW SOG TO EXISTING BUILDING
1" = 1'-0"



3 S42 DEEP FOOTING (T.O. FTG EL < -2'-0")
1" = 1'-0"

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SHEET TITLE
CONCRETE DETAILS - FOUNDATION

SHEET
S42

ORIGINAL SHEET SIZE
36" x 48"

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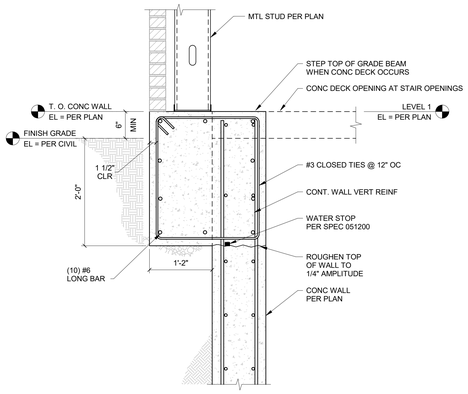
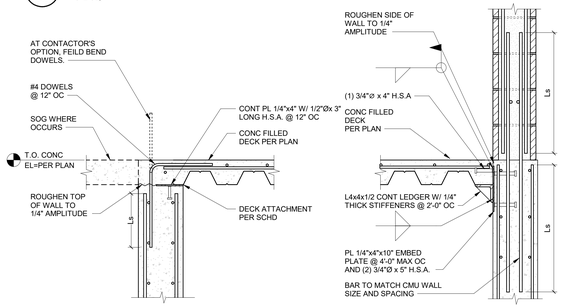


9 S43 MONOLITHIC GRADE BEAM AT BASEMENT WALL

1" = 1'-0"



NOTE:
SEE 2/S43 FOR BACKFILL REQUIREMENTS AT CONCRETE BASEMENT WALLS.

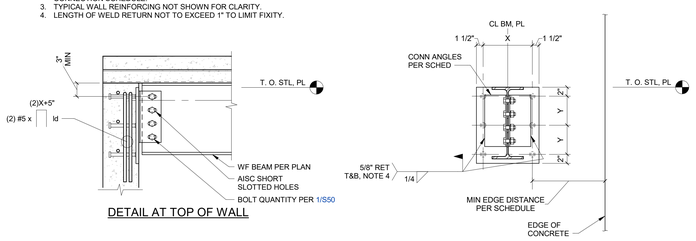
10 S43 CONC DECK ATTACHMENT

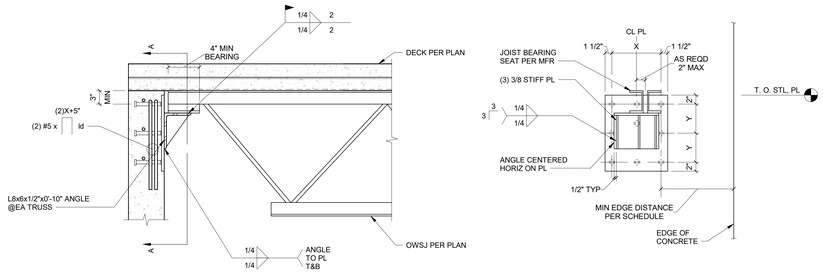
1" = 1'-0"

EMBEDDED PLATE CONNECTION SCHEDULE

TYPE MARK	PLATE SIZE	NUMBER OF HORIZ ROWS OF STUDS	NUMBER OF STUDS PER ROW	STUD SPACING X	STUD SPACING Y	MIN STUD LENGTH	DOUBLE ANGLE SIZE	MIN CONC THICKNESS	MIN EDGE DISTANCE
10CJW18 OR SMALLER	PL 5/8	2	2	8"	8"	8"	L5x3-1/2x5/16	10"	0'-9"
ALL	PL 5/8	3	2	8"	8"	8"	L5x3-1/2x5/16	10"	0'-9"

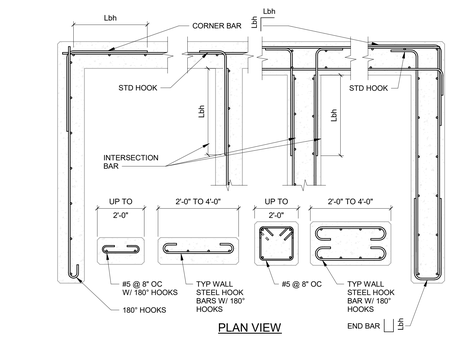
NOTES:
1. BOLTS TO BE SNUG TIGHT. DO NOT TIGHTEN FULLY.
2. BOLT DIAMETERS TO BE SAME AS SHOWN ON STANDARD BOLTED BEAM CONNECTION SCHEDULE.
3. TYPICAL WALL REINFORCING NOT SHOWN FOR CLARITY.
4. LENGTH OF WELD RETURN NOT TO EXCEED 1" TO LIMIT FIXITY.





4 S43 STEEL TO CONCRETE EMBEDDED PLATE CONNECTION

NO SCALE

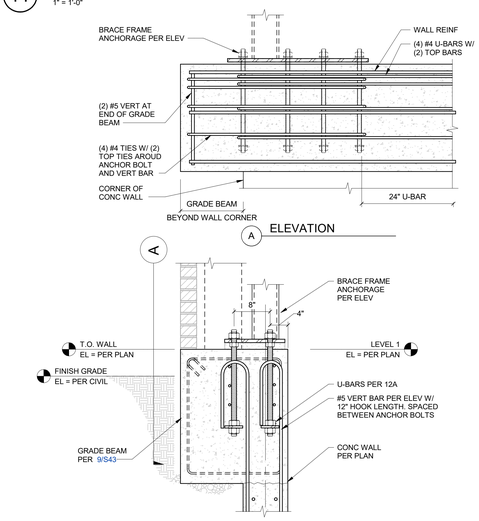


11 NOT USED

1" = 1'-0"

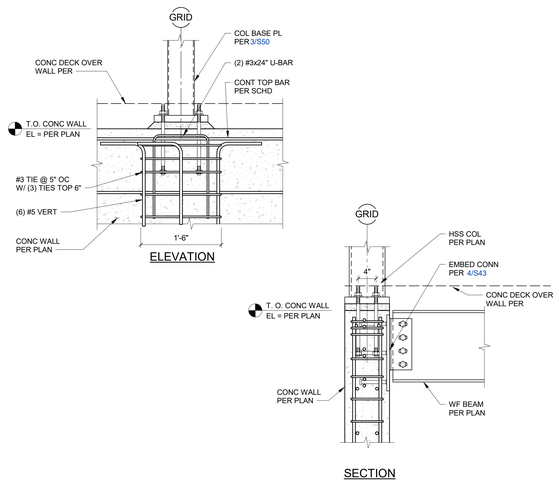
7 S43 TYP CONCRETE WALL DETAILS

3/4" = 1'-0"



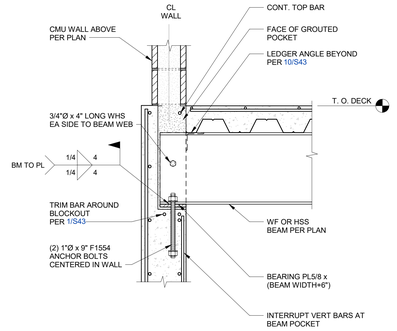
12 S43 MONOLITHIC GRADE BEAM AT NORTHEAST BRACE FRAME

1" = 1'-0"



8 S43 HSS COL OVER CONCRETE PILASTER

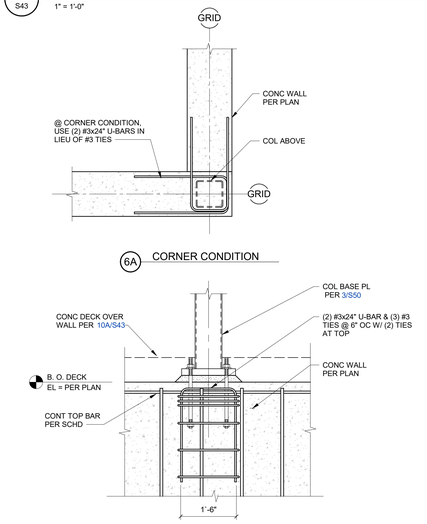
1" = 1'-0"



NOTES:
1. BEAM POCKET IN MASONRY SHALL BE 2" WIDER THAN BEARING PLATE ON EACH SIDE.
2. FULLY GROUT BEAM POCKET AFTER STEEL ERECTION IS COMPLETE.

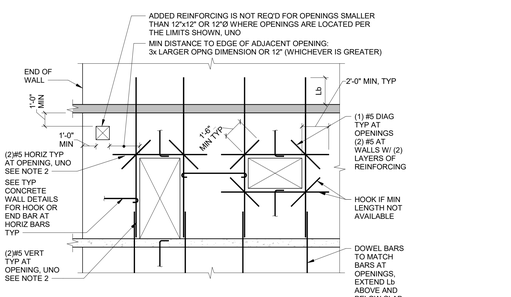
5 S43 STEEL BEAM POCKET CONNECTION

1" = 1'-0"



6 S43 HSS COL OVER TOP OF WALL

1" = 1'-0"



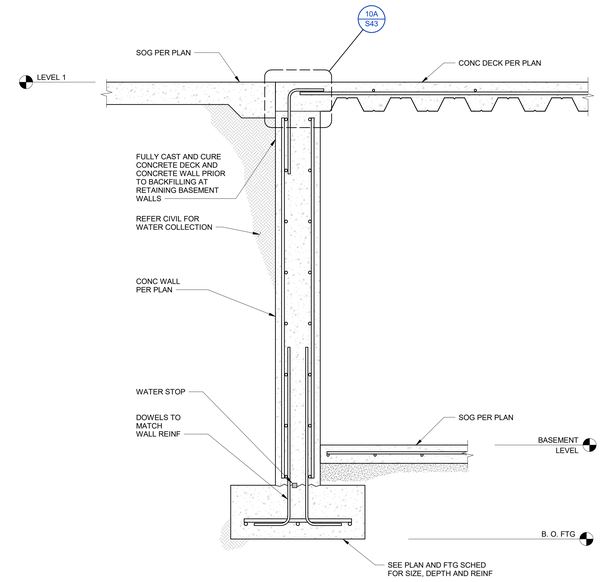
NOTES:
1. BARS SHOWN ARE IN ADDITION TO WALL REINFORCING NOTED ELSEWHERE.
2. PROVIDE AN ADDITIONAL BAR FOR EACH HORIZONTAL OR VERTICAL BAR INTERRUPTED BY OPENING.
3. PROVIDE HOOKS AT ALL INTERRUPTED BARS AS SHOWN.
4. USE SIESMIC LAP SPLICES LEGNTHS PER 2/S40

CONCRETE WALL SCHEDULE

WALL TYPE	WALL THICKNESS	HORIZ REIF	VERT REIF	END BARS & TOP BAR	NOTES
RC 8	8"	#5 @ 12"	#5 @ 12"	(2) #5	
RC 10	10"	#5 @ 12" EF	#5 @ 12" EF	(2) #5	
RC 10S	10"	#5 @ 12" EF	#5 @ 9" - INTERIOR FACE #4 @ 18" - EXTERIOR FACE	(2) #5	AT ALL BASEMENT WALLS RETAINING SOIL

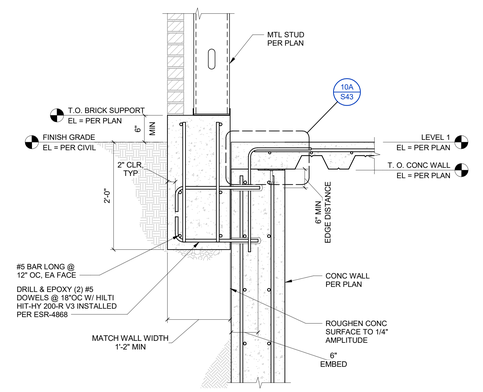
1 S43 TYP CONCRETE WALL REINFORCING

NO SCALE



2 S43 CONCRETE WALL FOOTING AT BASEMENT

1" = 1'-0"



3 S43 GRADE BEAM AT BASEMENT WALL

1" = 1'-0"

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AGENCY REVIEW SET

PROJECT	DATE
10212200038	04-17-23
DRAWN	CHECKED
PINN	NLP

REVISED

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Suite 200
Boise, ID 83706
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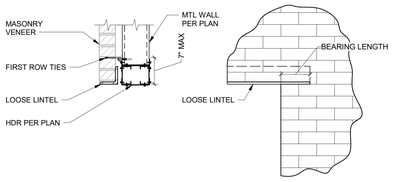
SHEET TITLE
CONCRETE DETAILS

SHEET
S43

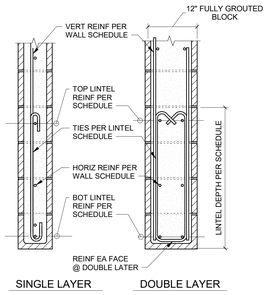
ORIGINAL SHEET SIZE
36" x 48"

4/12/2023 5:13:44 PM

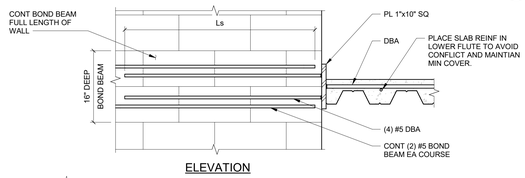
VENEER LINTEL SCHEDULE		
CLEAR OPENING	SIZE OF ANGLE	BEARING LENGTH
6'-0" MAX	L3 1/2x3 1/2x1/4	8"
10'-0" MAX	L5x3 1/2x3/8	10"

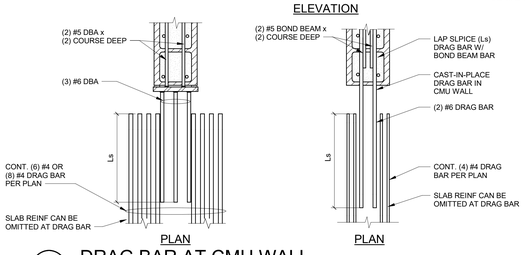


10 S45 LOOSE LINTEL SCHEDULE
1" = 1'-0"

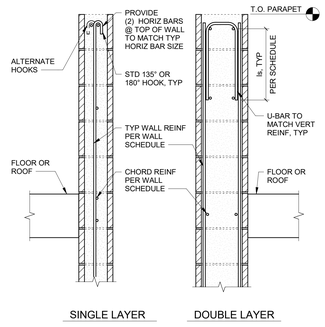


6 S45 CMU LINTEL
1" = 1'-0"

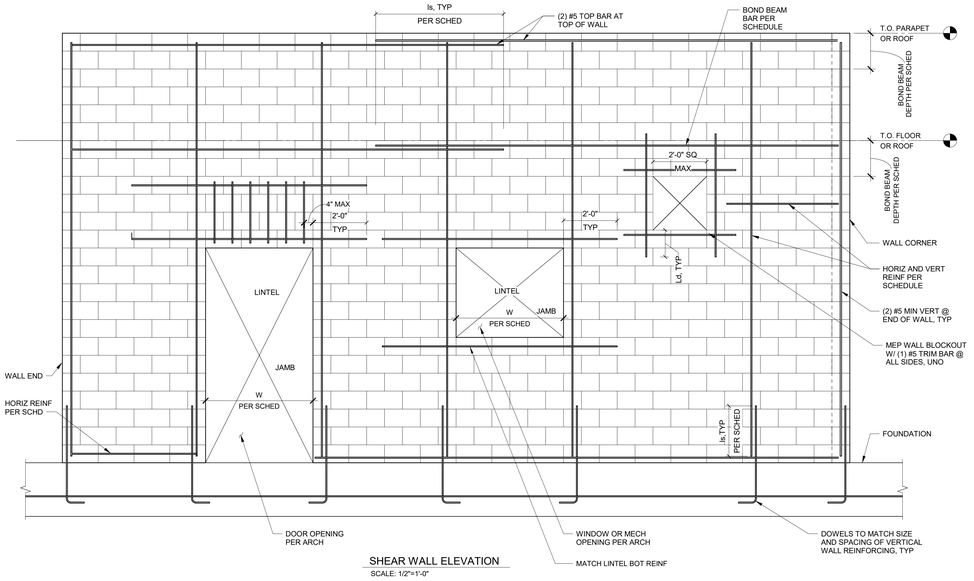




11 S45 DRAG BAR AT CMU WALL
1" = 1'-0"



7 S45 TOP OF WALL DETAIL
1" = 1'-0"



SHEAR WALL ELEVATION
SCALE: 1/2"=1'-0"

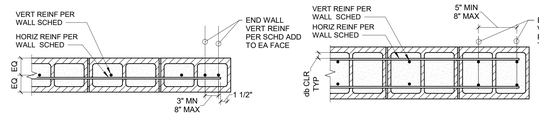
CMU WALL SCHEDULE								
WALL TYPE	NOMINAL CMU WIDTH	CMU TYPE	GROUT	REINFORCING LAYERS	BAR SIZE & SPACING		END WALL BAR	CONTINUOUS BOND BEAM	NOTES
					HORIZ	VERT			
CMU 8	8"	NORMAL WEIGHT	FULLY GROUTED	SINGLE	#5 @ 48"	#5 @ 24"	(2) #5	(2) COURSE DEEP W/ (1) #5 EA	UNO PER ELEV
CMU 10	10"	NORMAL WEIGHT	FULLY GROUTED	DOUBLE	#5 @ 48"	#5 @ 24"	(2) #5 EF	(2) COURSE DEEP W/ (2) #5 EA	UNO PER ELEV
CMU "X"NB	6" OR 8", PER PLAN	NORMAL WEIGHT	FULLY GROUTED	SINGLE	#4 @ 48"	#4 @ 48"	(1) #4	(1) COURSE W/ (1) #4	CMU SIZE PER PLAN

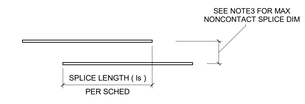
MASONRY LINTEL SCHEDULE					
MAX SPAN W	LINTEL DEPTH	BOTTOM BAR	TOP BAR	TIES	JAMB BAR
4'-0"	16"	(2) #5	(1) #5	N.A.	(2) #5 EF
6'-0"	24"	(2) #5	(1) #5	#3 @ 16"	(2) #5 EF
GREATER THAN 6'-0"	PER ELEV	PER ELEV	PER ELEV	PER ELEV	PER ELEV

NOTE:

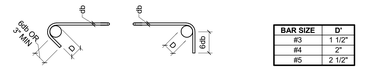
1. GROUT WALLS AS FOLLOWS:
   A. PARTIALLY GROUTED: GROUT ALL CELLS CONTAINING REINFORCING.
   B. FULLY GROUTED: GROUT ALL CELLS.
2. ALL NON-RUNNING BOND WALLS SHALL BE FULLY GROUTED.
3. PROVIDE CMU LINTELS AT ALL CMU OPENINGS UNLESS NOTED OTHERWISE.
4. ALL MASONRY OPENINGS SHALL BE SHORED UNTIL MASONRY HAS CURED FOR A MINIMUM OF 72 HOURS.
5. CMU BLOCK FACE SHELL THICKNESS NOT TO EXCEED 1 7/8" THICK.
6. ALL LAP SPLICES IN CMU SHALL BE PER 2/S45

1 S45 SHEAR WALL ELEVATION AND DETAIL
NTS



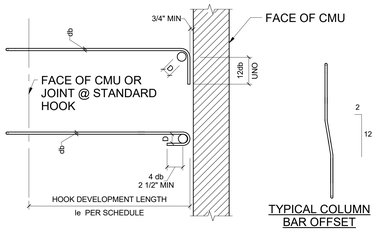


TYPICAL LAP SPLICE



BAR SIZE	D'
#3	1 1/2"
#4	2"
#5	2 1/2"

TIES

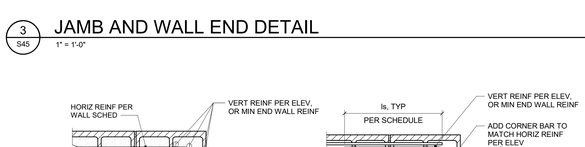


BAR SIZE	DEVELOPMENT LENGTH (l_d) & LAP SPLICE LENGTH (l_s)	HOOK DEVELOPMENT LENGTH (l_e)	D
#4	17"	7"	3"
#5	27"	9"	3 3/4"
#6	43"	10"	4 1/2"
#7	58"	12"	5 1/4"

NOTES:

1. SPLICE AND DEVELOPMENT LENGTHS ARE BASED ON f'm = 2,000 psi AND fy = 60 ksi
2. PLACE BARS TO BE SPLICED OR DEVELOPED TO HAVE 3" MINIMUM CLEAR COVER
3. NONCONTACT SPLICE SHALL NOT BE GREATER THAN 8" OR 1/5* LAP SPLICE

2 S45 CMU -LAP SPLICES/DEVELOPMENT LENGTH SCHEDULE
1" = 1'-0"

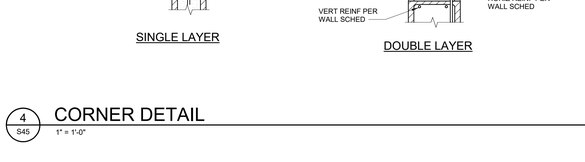


12" CMU WALL (PLAN VIEW)

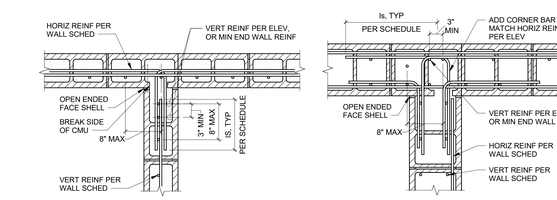
NOTES:

1. PLACE CONDUITS IN CELLS WITHOUT VERTICAL REINFORCEMENT WHENEVER POSSIBLE.
2. WIRE VERTICAL CONDUIT TO WALL HORIZONTAL BARS. MAINTAIN BARS IN PLACE DURING GROUT POUR.
3. HORIZONTAL CONDUIT ARE NOT PERMITTED.
4. NO ALUMINUM COMPONENT SHALL BE EMBEDDED IN MASONRY CONSTRUCTION.

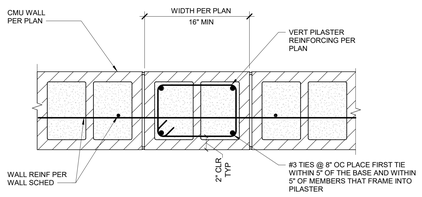
8 S45 VERTICAL CONDUITS IN CMU WALL
1" = 1'-0"



4 S45 CORNER DETAIL
1" = 1'-0"



5 S45 T-INTERSECTION DETAIL
1" = 1'-0"



9 S45 MASONRY PILASTER
1 1/2" = 1'-0"

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PROJECT	DATE
102122000038	04-17-23
DRAWN	CHECKED
PINN	NLP

REVISED

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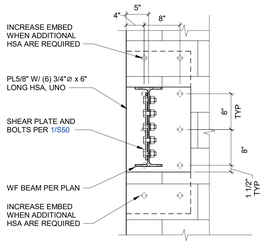
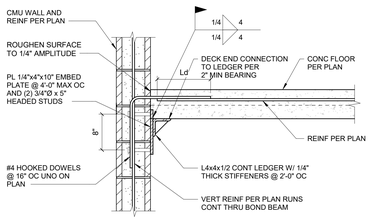
SHEET TITLE
MASONRY DETAILS - TYPICAL

SHEET
S45

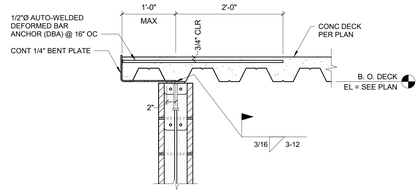
ORIGINAL SHEET SIZE
36" x 48"

4/12/2023 5:13:45 PM





4B CONC DECK TO LEDGER



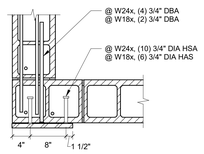
4A CONC DECK OVER CMU WALL

MOUNTING PLATE CONNECTION SCHEDULE

WF BEAM SIZE	NUMBER OF BOLTS TO BEAM	MOUNTING PLATE SIZE	NUMBER OF HORIZONTAL ROWS OF ANCHORS	NUMBER OF VERTICAL COLUMNS OF ANCHORS	ANCHORS SPACING		h ef ANCHOR EMBED	MIN NOMINAL WALL THICKNESS
					X	Y		
W10x	2	1/2"	2	2	8"	8"	6"	8" MIN
W12x/W14x	3	1/2"	3	2	8"	8"	6"	8" MIN
W18x CMU CORE ONLY	5	5/8"	4	2	8"	8"	6"	10" MIN

8 / S46 WF EMBED CONN AT CORNER WALL

1" = 1'-0"

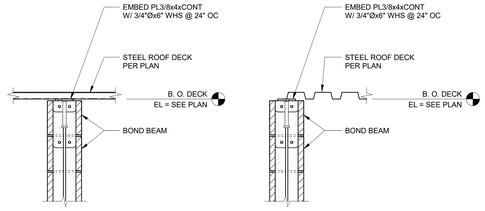


NOTES:

1. SEE 6/S46 FOR DBA SPACING AND BOND BEAM REQUIREMENTS.
2. SEE 8/S46 FOR EMBED & STUD LAYOUT AT CORNER OF WALL

4 / S46 CONCRETE DECK TO CMU WALL

1" = 1'-0"



NOTE:

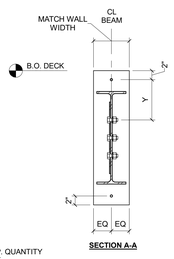
1. SLOPE TOP OF CMU WALL WITH ROOF.

5 / S46 TYP STEEL ROOF DECK TO TOP OF WALL CONN

NO SCALE

MOUNTING PLATE CONNECTION SCHEDULE

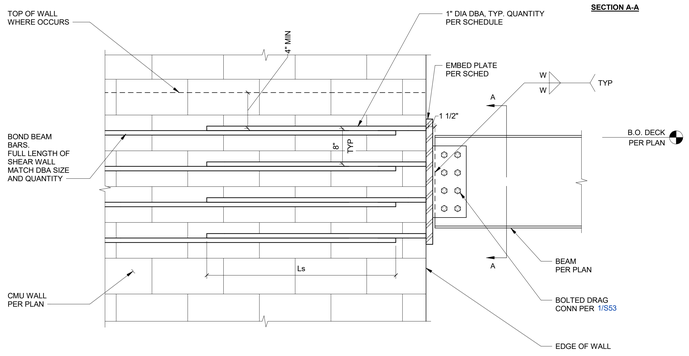
TYPE MARK	MOUNTING PLATE SIZE	NUMBER OF HORIZONTAL ROWS OF ANCHORS	NUMBER OF VERTICAL COLUMNS OF ANCHORS	ANCHOR SPACING		MIN NOMINAL WALL THICKNESS
				X	Y	
MP-L1	1"	3	1	-	8"	8" MIN
MP-L2	1/2"	2	1	-	8"	8" MIN



SECTION A-A

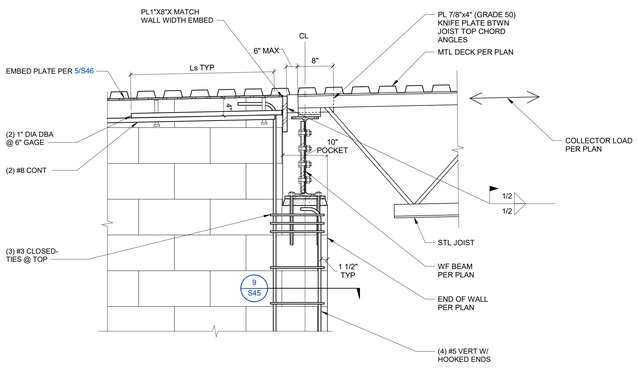
NOTES:

1. ALL PLATES IN THIS DETAIL SHALL BE A572 GR50.

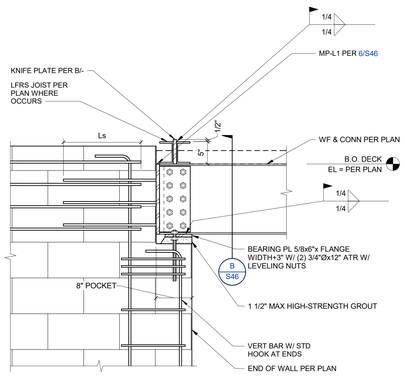


6 / S46 TYP STEEL DRAG BEAM TO WALL CONNECTION

NO SCALE



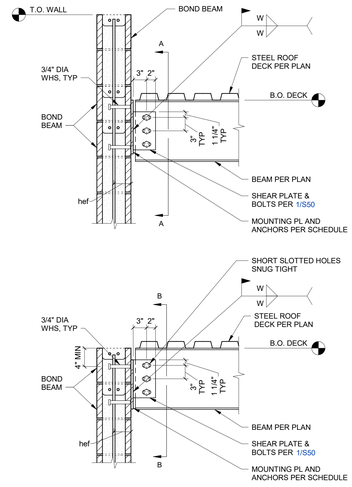
B SECTION



A SECTION

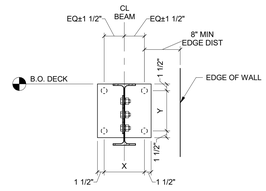
7 / S46 COLLECTOR BEAM POCKET AT CORNER OF CMU WALL

1" = 1'-0"

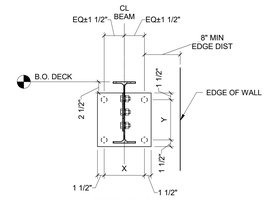


NOTES:

1. BOLT DIAMETER TO BE SAME AS SHOWN ON STANDARD BOLTED BEAM CONNECTION
2. HORIZONTALLY SHORT SLOT BOLT HOLES IN THE BEAM WEB.



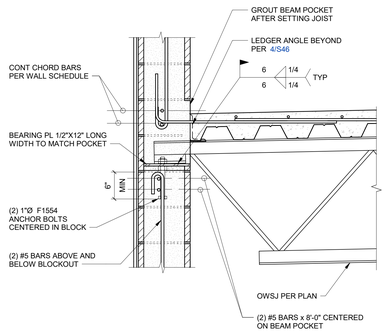
SECTION A-A

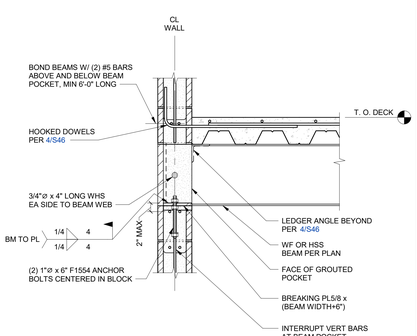


SECTION B-B

1 / S46 STEEL BEAM TO WALL EMBED CONNECTION

NO SCALE



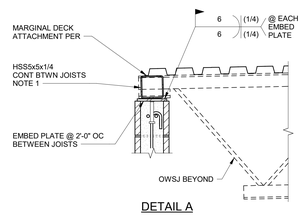


NOTES:

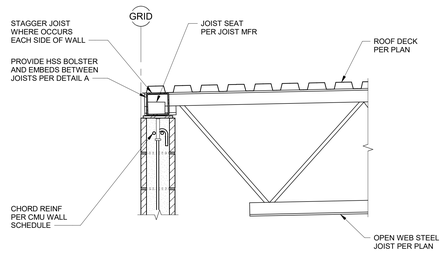
1. BEAMS POCKET IN MASONARY SHALL BE 2" WIDER THAN BEARING PLATE ON EACH SIDE.
2. FULLY GROUT BEAM POCKET AFTER STEEL ERECTION IS COMPLETE.

2 / S46 TYP STEEL BEAM TO CMU WALL CONNECTION

NO SCALE



DETAIL A



NOTES:

1. UPSIDE DOWN U-SHAPED BENT PL 1/4" CONT. W/ EQUIVALENT FILLET WELDS IS ALSO ACCEPTABLE AT CONTRACTOR'S OPTION.

3 / S46 JOIST TO TOP OF CMU WALL

NO SCALE

4/12/2023 5:13:45 PM

PROFESSIONAL ENGINEER
12033
STATE OF IDAHO
KIRSTEN M. WILLIAM

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CSHQA

AGENCY REVIEW SET

PROJECT	DATE
10212200038	04-17-23
DRAWN	CHECKED
PINN	NLP

REVISED

kpff
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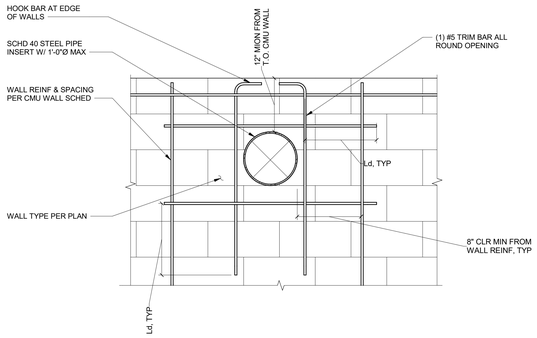
SHEET TITLE

MASONRY DETAILS - TYPICAL

SHEET

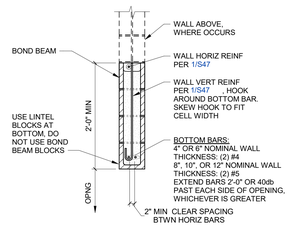
S46

ORIGINAL SHEET SIZE
36" x 48"



10 S47 MECHANICAL SLEEVE THROUGH NON-BEARING CMU

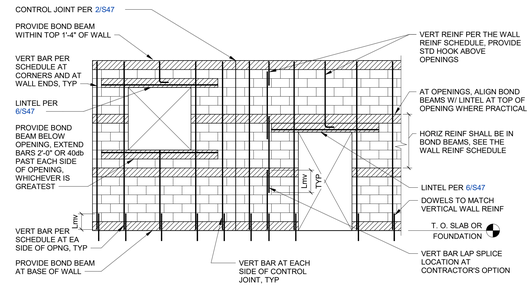
1" = 1'-0"



SECTION

6 S47 TYP NON-BEARING CMU WALL LINTEL BEAM

3/4" = 1'-0"



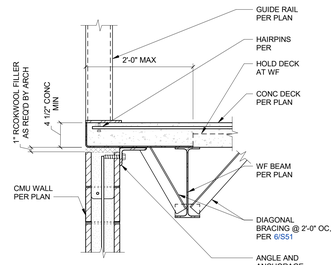
TYPICAL NON-BEARING CMU WALL REINFORCEMENT

WALL THICKNESS	MAX WALL HEIGHT	VERTICAL REINFORCEMENT	HORIZONTAL REINFORCEMENT
4"	10'	#4 @ 48" OC	
6"	10'	#4 @ 48" OC	#4 @ 48" OC
6"	15'	#5 @ 40" OC	#4 @ 48" OC
8"	14'	#5 @ 48" OC	#5 @ 48" OC
8"	20'	#6 @ 32" OC	#5 @ 48" OC
10"	14'	#5 @ 48" OC	#5 @ 48" OC
10"	25'	#6 @ 24" OC	#5 @ 48" OC
12"	14'	#5 @ 48" OC	(2) #4 @ 48" OC
12"	30'	#6 @ 8" OC	(2) #4 @ 48" OC

NOTES:
1. THIS DETAIL PROVIDES MINIMUM REINFORCEMENT, UNLESS NOTED OTHERWISE. MORE STRINGENT SPECIFIC DETAILS SHALL TAKE PRECEDENCE OVER THESE MINIMUMS.
2. THIS DETAIL APPLIES FOR RUNNING BOND ONLY.
3. SEE 2/S45 FOR VERTICAL BAR LAP SPLICE AND DEVELOPMENT LENGTH (Lmv). SEE 2/S45 FOR HORIZONTAL BAR LAP SPLICE LENGTH (Lmh).
4. CENTER VERTICAL BARS IN WALL. WALLS WITH ONE HORIZONTAL CURTAIN SHALL HAVE HORIZONTAL BARS TIGHT TO VERTICAL BARS. WALLS WITH TWO HORIZONTAL CURTAINS SHALL HAVE HORIZONTAL BARS CENTERED IN THE WALL WITH A CLEAR DISTANCE BETWEEN HORIZONTAL BARS PER 5/S47 .

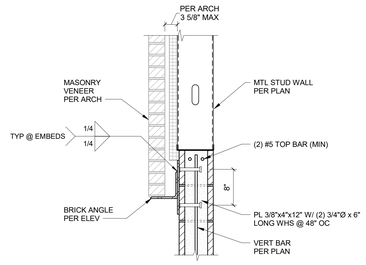
1 S47 TYP NON-BEARING CMU WALL REINF

NO SCALE



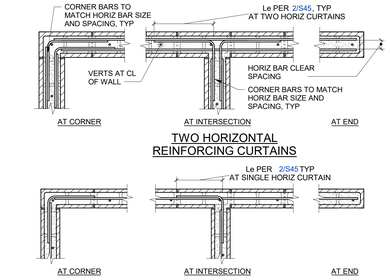
11 S47 NON-BEARING CMU AT HSS GUIDE RAIL

1" = 1'-0"



7 S47 METAL STUD OVER FIRE RATED CMU WALL

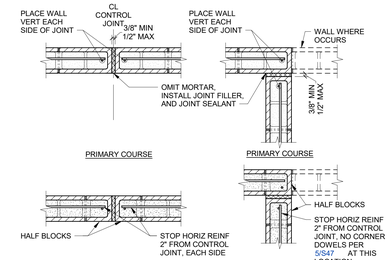
1" = 1'-0"



NOTES:
1. COORDINATE REINFORCING WITH CONTROL JOINT LOCATIONS PER 2/S47 .

5 S47 TYP NON-BEARING CMU WALL REINF - PLAN

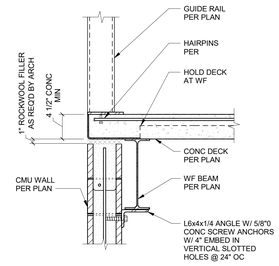
NO SCALE



NOTES:
1. CONTROL JOINT SPACING SHALL NOT EXCEED 24'-0", UNLESS NOTED OTHERWISE.
2. SEE ARCHITECTURAL DRAWINGS FOR CONTROL JOINT LOCATIONS.

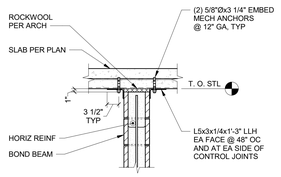
2 S47 NON-BEARING MASONRY CONTROL JOINT

NO SCALE

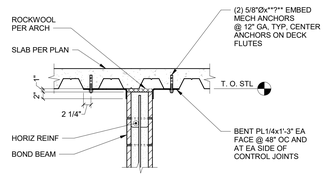


8 S47 NON-BEARING CMU AT HSS GUIDE RAIL

1" = 1'-0"



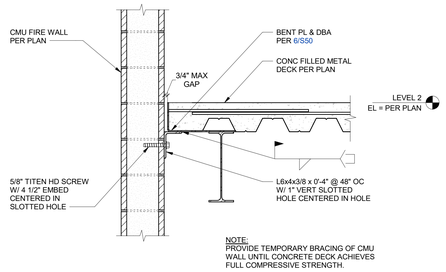
TOP AT SLAB (DECK PERPENDICULAR)



TOP AT SLAB (DECK PARALLEL)

3 S47 TYP TOP OF WALL ANCHORAGE AT SLAB ON DECK

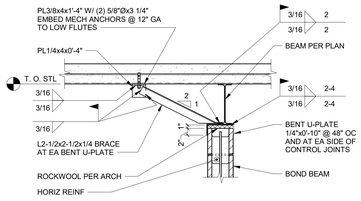
NO SCALE



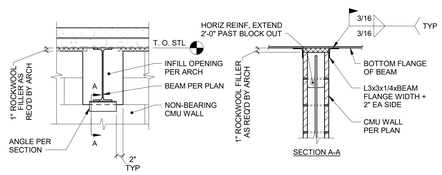
NOTE:
PROVIDE TEMPORARY BRACING OF CMU WALL UNTIL CONCRETE DECK ACHIEVES FULL COMPRESSIVE STRENGTH.

9 S47 FIRE RATED WALL ATTACHMENT

1" = 1'-0"



TOP OF WALL PARALLEL TO BEAM



TOP OF WALL PERPENDICULAR TO BEAM

4 S47 TYP TOP OF WALL ANCHORAGE AT STEEL BEAM

NO SCALE

4/12/2023 5:13:49 PM

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PROJECT	DATE
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PINN	NLP

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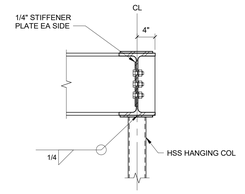
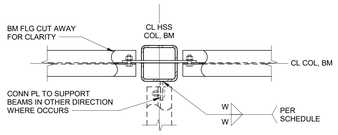
SHEET NAME
MASONRY DETAIL - NONBEARING WALL

SHEET
S47

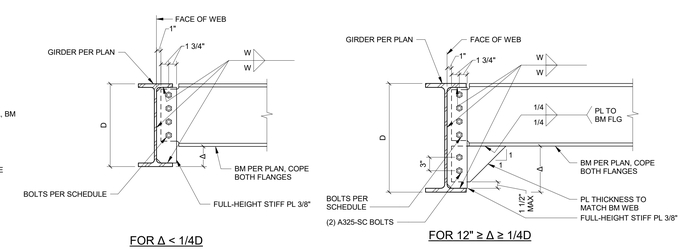
ORIGINAL SHEET SIZE
36" x 48"



7 S50 HANGING COLUMN
1" = 1'-0"



PLAN



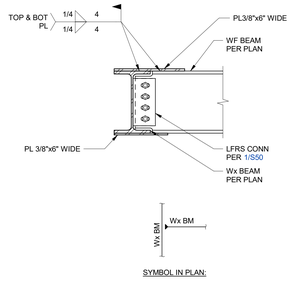
1C TYP BEAM-TO-GIRDER FULL-HEIGHT PLATE CONN

STANDARD BOLTED CONNECTION SCHEDULE

BEAM SIZE	NUMBER AND SIZE OF A325-N BOLTS	MIN PLATE THICKNESS	WELD SIZE "W"
W6, C6, C7, L6	(2) 3/4"Ø @ 3" GA	1/4"	1/4"
W8, C8, C9	(2) 7/8"Ø	1/4"	1/4"
W10, C10	(2) 7/8"Ø	1/4"	1/4"
W12, C12	(3) 7/8"Ø	1/4"	1/4"
W14, C15	(3) 7/8"Ø	1/4"	1/4"
W16	(4) 7/8"Ø	3/8"	1/4"
W18	(5) 7/8"Ø	3/8"	1/4"
W21	(5) 7/8"Ø	3/8"	1/4"
W24	(6) 7/8"Ø	3/8"	1/4"

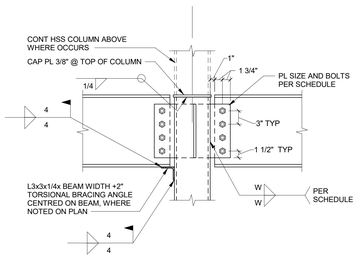
CONNECTION NOTES:

1. BOLTS IN BEAM TO BEAM CONNECTIONS SHALL BE TIGHTENED TO AISC "SNUG TIGHT" CONDITION UNLESS NOTED OTHERWISE IN DETAILS.
2. CONNECTION PLATES TO HAVE AISC SHORT SLOTTED HOLES UNLESS NOTED OTHERWISE.
3. USE A36 STEEL FOR ALL SHEAR TABS IN THIS DETAIL UNO.
4. BOLTS IN CONNECTIONS OF MEMBERS DESIGNATED AS PART OF THE LATERAL FORCE RESISTING SYSTEM (LFRS) TO BE 1"Ø A490-N SLIP CRITICAL BOLTS WITH CLASS-A FAYING SURFACE UNLESS NOTED OTHERWISE.
5. FOR BEAM MEMBERS DESIGNATED AS PART OF THE LATERAL FORCE RESISTING SYSTEM (LFRS), PROVIDE AND EXTEND KNIFE PLATE THRU THE HSS COLUMN AT BEAM TO COLUMN CONNECTIONS.
6. FOR EXPOSED STRUCTURES, ALL WELDS SHOULD BE GRIND SMOOTH AND PREPARED FOR FINISHES PER ARCH DRAWINGS.
7. WHERE SINGLE BEAM CONNECTION IS REQUIRED ON THROUGH-PLATE TO HSS CONNECTION, EXTEND PLATE 1/2" PAST EXTERIOR FACE OF COLUMN FOR WELD ACCESS.
8. PROVIDE TORSIONAL BRACING ANGLE WHERE TB SHOWN ON PLAN.
9. PROVIDE FULL HEIGHT PLATE CONNECTION WHERE ◆ SHOWN ON PLAN.
10. USE GR50 3/8" PL FOR BOXED BEAM CONNECTIONS WHERE BEAM IS LABELED "BOXED" ON PLAN.

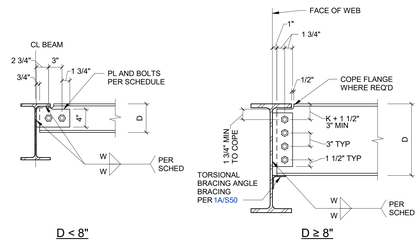


SYMBOL IN PLAN:

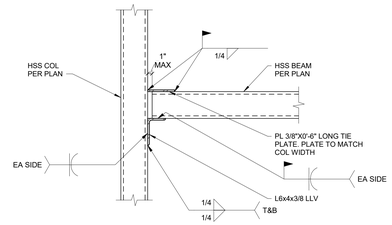
8 S50 WF TO WF MOMENT CONN
1" = 1'-0"



1A THROUGH-PLATE TO HSS COLUMN

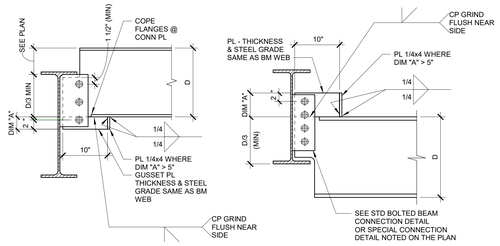


1B WF BEAM TO BEAM CONNECTION

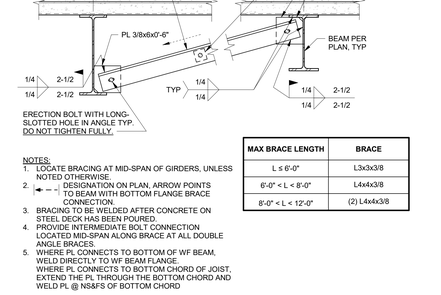


1D HSS BEAM TO HSS COL CONN

1 S50 TYP BOLTED BEAM CONNECTIONS
NO SCALE



6A SECTION
SCALE : 1" = 1'-0"



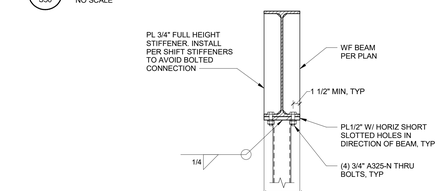
NOTES:
1. LOCATE BRACING AT MID-SPAN OF GIRDERS, UNLESS NOTED OTHERWISE.
2. DESIGNATION ON PLAN, ARROW POINTS TO BEAM WITH BOTTOM FLANGE BRACE CONNECTION.
3. BRACING TO BE WELDED AFTER CONCRETE ON STEEL DECK HAS BEEN POURED.
4. PROVIDE INTERMEDIATE BOLT CONNECTION LOCATED MID-SPAN ALONG BRACE AT ALL DOUBLE ANGLE BRACES.
5. WHERE PL CONNECTS TO BOTTOM OF WF BEAM, WELD DIRECTLY TO WF BEAM FLANGE. WHERE PL CONNECTS TO BOTTOM CHORD OF JOIST, EXTEND THE PL THROUGH THE BOTTOM CHORD AND WELD PL @ NS&FS OF BOTTOM CHORD

MAX BRACE LENGTH	BRACE
L ≤ 6'-0"	L3x3x3/8
6'-0" < L < 8'-0"	L4x4x3/8
8'-0" < L < 12'-0"	(2) L4x4x3/8

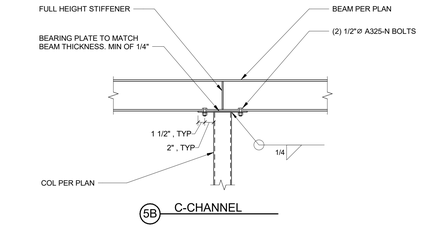
4 S50 TYP DIAGONAL BOTTOM FLANGE BRACING
NO SCALE

NOTE:
USE LARGER PLATE AND WELD AS MAY BE REQ'D BY BEAM CONNECTION SCHEDULE.

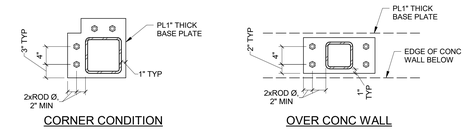
2 S50 TYPICAL STIFFENER PLATES
1" = 1'-0"

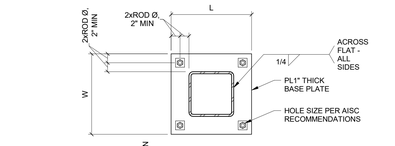


A WF BEAM

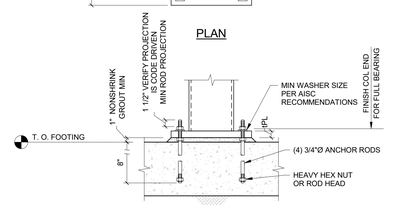


5B C-CHANNEL

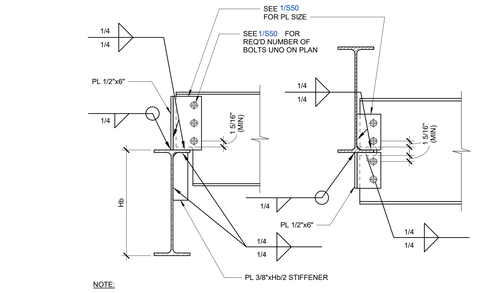




PLAN



3 S50 HSS COLUMN BASE PLATE
NO SCALE



NOTE:
1. DETAIL MAY BE INVERTED WHERE TOP OF GIRDER IS LOWER THAN BEAM.

6B SECTION
SCALE : 1" = 1'-0"

6 S50 DEPRESSED GIRDER BEAM CONNECTION
1" = 1'-0"

5 S50 STEEL BEAM OVER HSS COLUMN CONNECTION
1" = 1'-0"

JOSEPH HEITT, P.E.(N, P.E.P.S., &R) DISTRICT
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PROJECT	DATE
10212200038	04-17-23
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PINN	NLP

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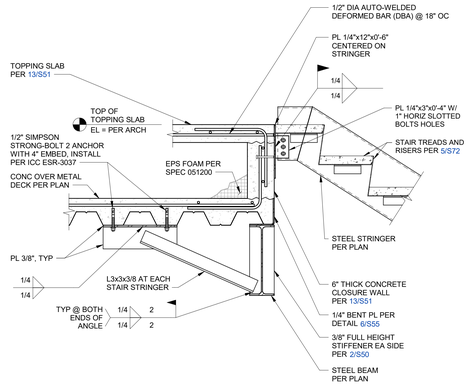
SHEET TITLE
STEEL DETAILS - TYPICAL

SHEET
S50

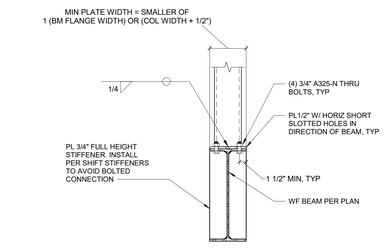
ORIGINAL SHEET SIZE
36" x 48"

4/12/2023 5:13:50 PM



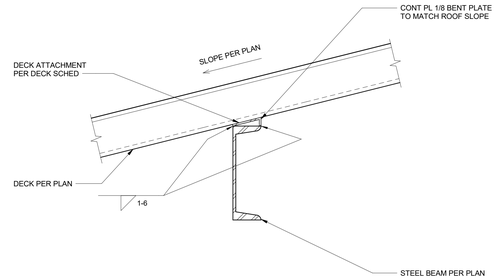
12 S51 STAIR STRINGER TO TOPPING SLAB AT ROOF LEVEL

NO SCALE



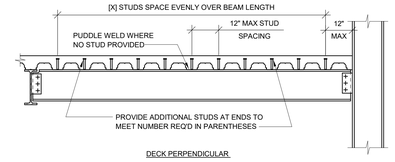
9 S51 COLUMN OVER WF CONNECTION

1" = 1'-0"



5 S51 SLOPE DECK TO STEEL BEAM

3" = 1'-0"

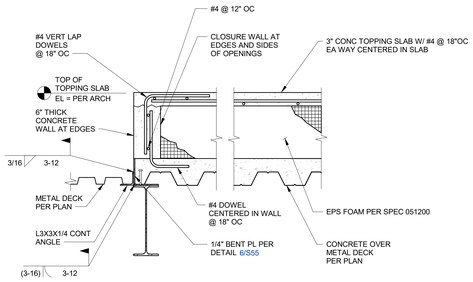


NOTES:

1. IF MULTIPLE STUDS ARE REQUIRED IN ONE FLUTE, REFER TO 2/S51 FOR SPACING REQUIREMENTS.
2. ALL BEAMS AND GIRDERS THAT SUPPORT STRUCTURAL CONCRETE HAVE HEADED SHEAR STUDS @ 12" OC UNO ON PLAN REFER TO 1/S55 FOR SHEAR STUD SIZES.

1 S51 COMPOSITE BEAM STUD SPACING

1" = 1'-0"

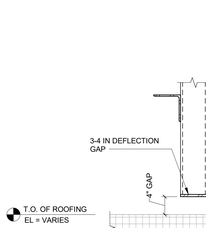


NOTE:

1. DECK DIRECTION VARIES PER PLAN.
2. METAL STUD WALLS AROUND THE BUILT UP SLAB IS NOT SHOWN. REFER PLAN FOR METAL STUD WALLS.

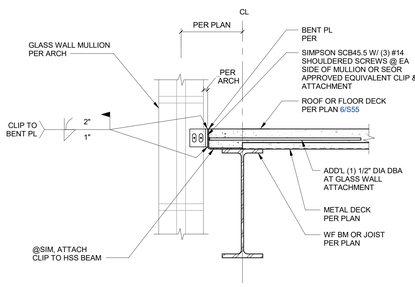
13 S51 TOPPING SLAB AT ROOF LEVEL

NO SCALE



10 S51 HANGING COLUMN AT EXISTING ROOF

1" = 1'-0"

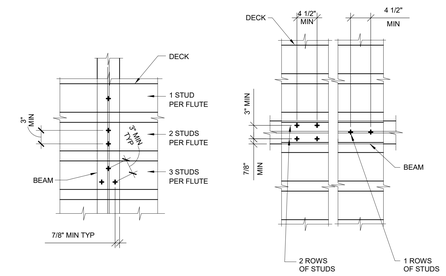


NOTE:

INSTALL DRIFT CLIP PER MANUFACTURER'S RECOMMENDATION CONTRACTOR TO COORDINATE ATTACHMENT W/ GLASS WALL MANUFACTURE.

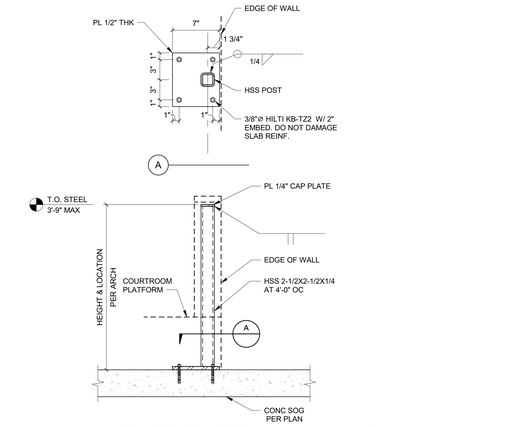
6 S51 CURTAIN WALL ATTACHMENT AT CONCRETE DECK LEVEL

1" = 1'-0"



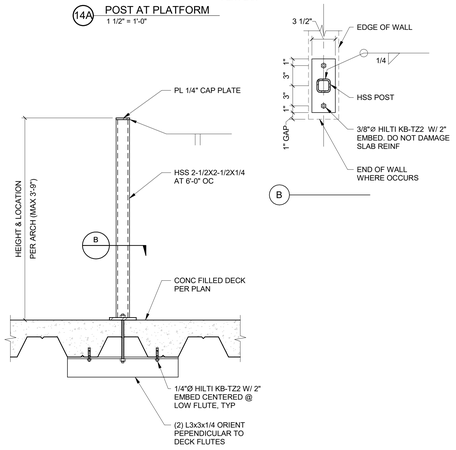
2 S51 PLAN - STUD SPACING WITHIN DECK FLUTES

1" = 1'-0"



14A POST AT PLATFORM

1 1/2" = 1'-0"

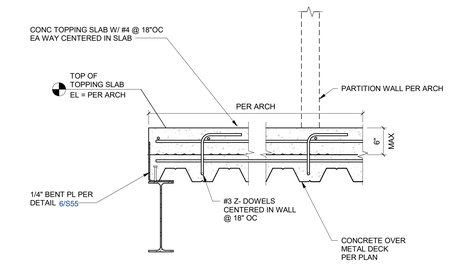


14B POST IN WALL

1 1/2" = 1'-0"

14 S51 COURTROOM RAILING SUPPORT ON SLAB ON METAL DECK

1 1/2" = 1'-0"

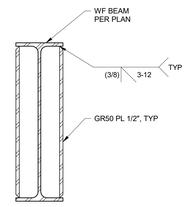


NOTE:

1. DECK DIRECTION VARIES PER PLAN.
2. METAL STUD WALLS AROUND THE BUILT UP SLAB IS NOT SHOWN. REFER PLAN FOR METAL STUD WALLS.

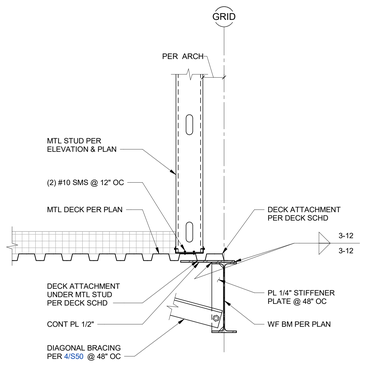
11 S51 CONCRETE OVERBUILD

1" = 1'-0"



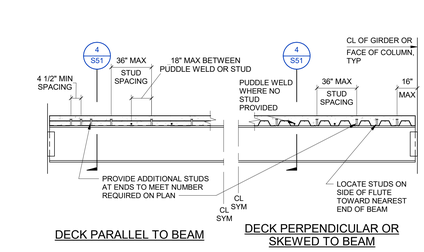
7 S51 BOXED BEAM

1 1/2" = 1'-0"



8 S51 METAL STUD WALL SUPPORT

1" = 1'-0"

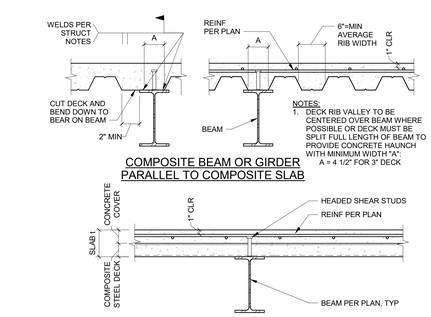


NOTES:

1. THE MINIMUM NUMBER OF STUDS REQUIRED IS SHOWN AS [X] ON FRAMING PLANS. WHERE NO DESIGNATION OCCURS PROVIDE STUDS @ 12" OC. NO STUDS ARE REQUIRED WHERE [0] APPEARS. ADDITIONAL STUDS MAY BE REQUIRED TO MEET THE ABOVE MAXIMUM SPACING REQUIREMENTS.

3 S51 TYP COMPOSITE BEAM DETAIL

NO SCALE



4 S51 TYP COMPOSITE BEAM TO COMPOSITE SLAB

NO SCALE

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PROJECT	DATE
1021220038	04-17-23
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SHEET TITLE

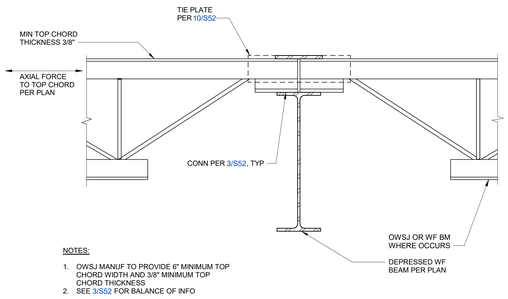
STEEL DETAILS - FRAMING

SHEET

S51

ORIGINAL SHEET SIZE 36" x 48"

4/12/2023 5:15:53 PM

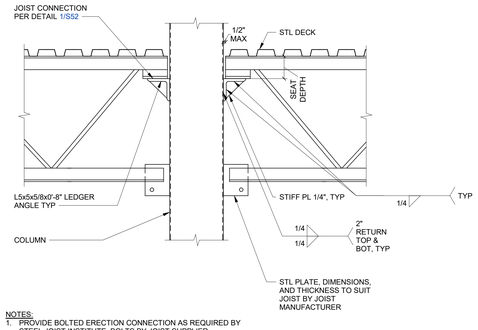


NOTES:

1. OWSJ MANUF TO PROVIDE 6" MINIMUM TOP CHORD WIDTH AND 3/8" MINIMUM TOP CHORD THICKNESS
2. SEE 3/S52 FOR BALANCE OF INFO

13 S52 CONN BTWN OWSJ AT Wx COLLECTOR

1 1/2" = 1'-0"

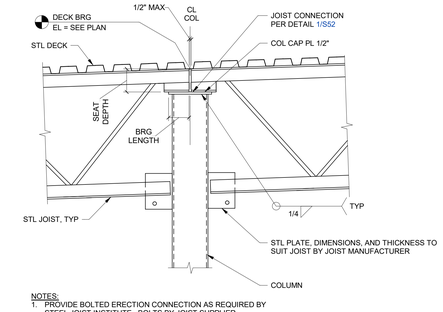


NOTES:

1. PROVIDE BOLTED ERECTION CONNECTION AS REQUIRED BY STEEL JOIST INSTITUTE. BOLTS BY JOIST SUPPLIER.

9 S52 TYP JOIST TO CONT HSS COLUMN

NO SCALE

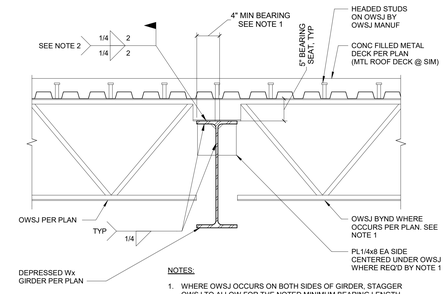


NOTES:

1. PROVIDE BOLTED ERECTION CONNECTION AS REQUIRED BY STEEL JOIST INSTITUTE. BOLTS BY JOIST SUPPLIER.

5 S52 TYP SLOPED JOIST ON STEEL HSS COLUMN

NO SCALE

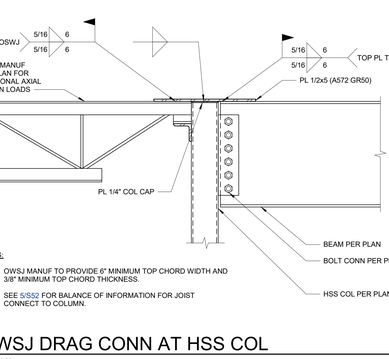


NOTES:

1. WHERE OWSJ OCCURS ON BOTH SIDES OF GIRDER, STAGGER OWSJ TO ALLOW FOR THE NOTED MINIMUM BEARING LENGTH. WHERE JOISTS MUST BUTT ON OPPOSITE SIDES & MIN BEARING CANNOT BE ACHIEVED PROVIDE 2" MIN BEARING & STIFFENER PLATES.
2. (2) 3/4"Ø A307 BOLTS MAY BE USED IN LIUE OF FIELD WELD UNLESS GIRDER IS NOTED "LFRS".

1 S52 TYPICAL JOIST TO GIRDER

NO SCALE

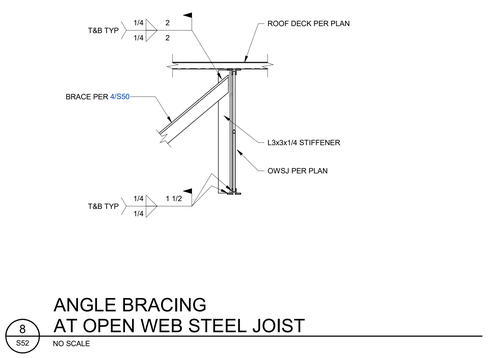


NOTES:

FOR BALANCE OF INFO
SEE 9/S52 OR 3/S52

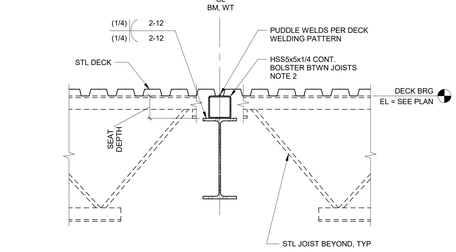
10 S52 JOIST COLLECTOR SPLICE

1" = 1'-0"



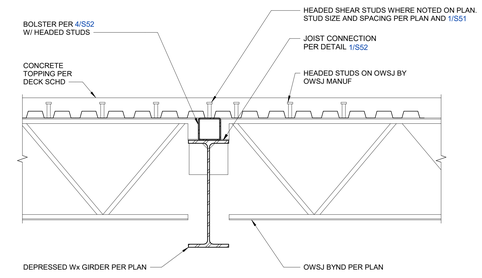
6 S52 FULL HEIGHT PLATE CONNECTION AT OWSJ

1" = 1'-0"



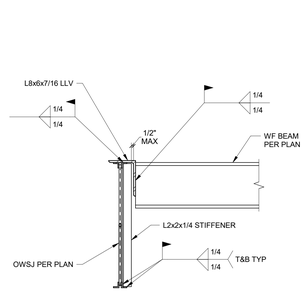
2 S52 TYP SLOPED JOIST ON WF BEAM (1 SIDE)

NO SCALE



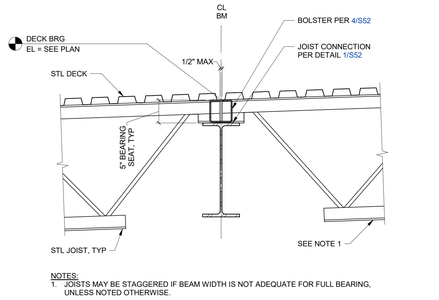
11 S52 COMPOSITE GIRDER

NO SCALE



7 S52 WF TO OWSJ CONNECTION

1" = 1'-0"



NOTES:

1. JOISTS MAY BE STAGGERED IF BEAM WIDTH IS NOT ADEQUATE FOR FULL BEARING, UNLESS NOTED OTHERWISE.

3 S52 TYP SLOPED JOIST ON WF BEAM (2 SIDES)

NO SCALE

NOTES:

1. OWSJ MANUF TO PROVIDE 6" MINIMUM TOP CHORD WIDTH AND 3/8" MINIMUM TOP CHORD THICKNESS.
2. SEE 5/S52 FOR BALANCE OF INFORMATION FOR JOIST CONNECT TO COLUMN.

12 S52 OWSJ DRAG CONN AT HSS COL

1" = 1'-0"

ANGLE BRACING AT OPEN WEB STEEL JOIST

8 S52 NO SCALE

NOTES:

1. ADJUST DECK LAYOUT TO ALIGN FLUTE WITH BOLSTER.
2. USE HSS 5x3x1/4 WHERE THE SUPPORTING WF BEAM FLANGE WIDTH IS LESS THAN 5".

4 S52 BOLSTER OVER WF BEAM

NO SCALE

4/12/2023 5:13:55 PM

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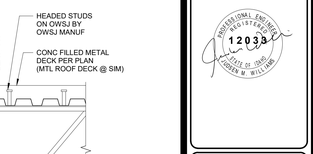

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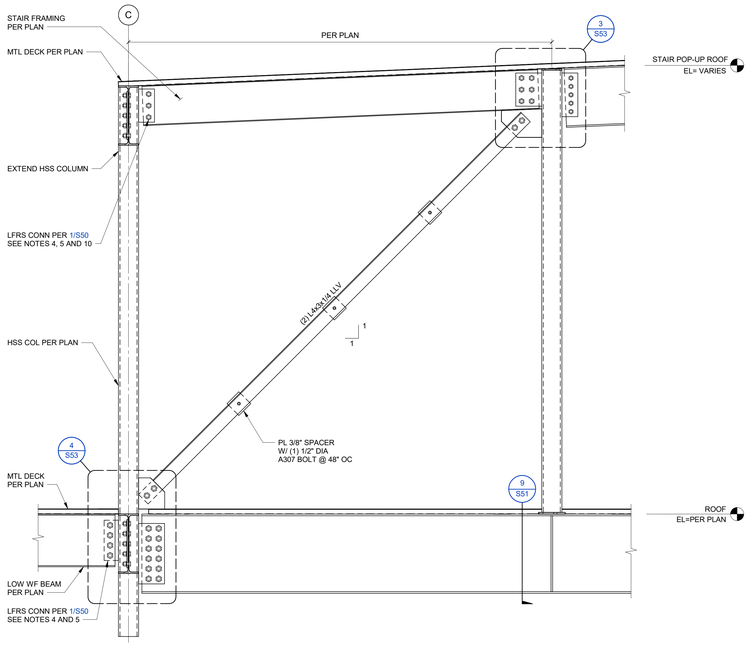
SHEET TITLE

STEEL DETAILS - JOIST

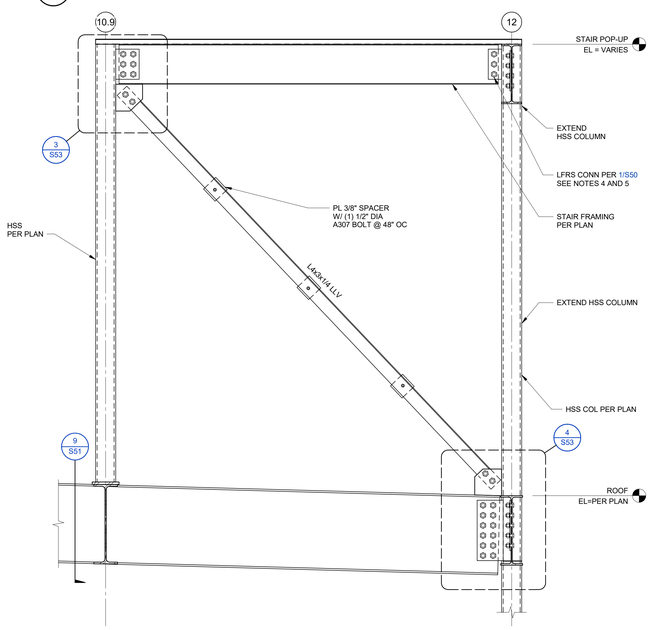
SHEET

S52

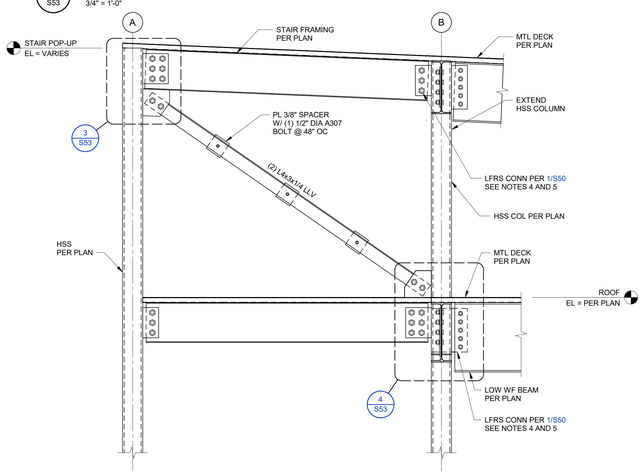
ORIGINAL SHEET SIZE
36" x 48"



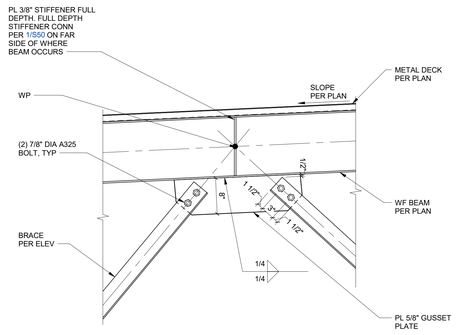
12 S53 STAIR POP UP BRACE
3/4" = 1'-0"



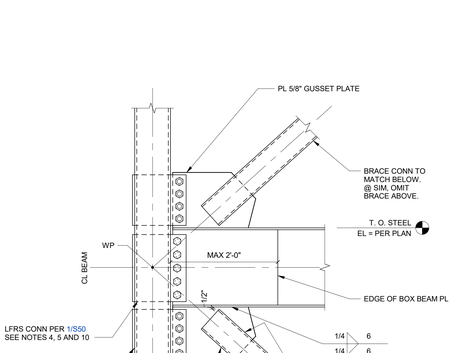
13 S53 STAIR POP UP BRACE
3/4" = 1'-0"



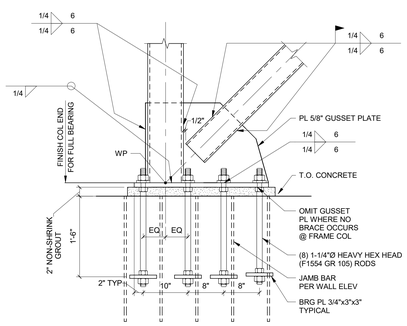
14 S53 STAIR POP UP BRACE
3/4" = 1'-0"



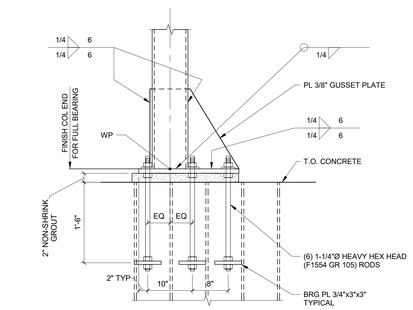
7 S53 ROOF STEP TRUSS
1" = 1'-0"



9A BEAM BRACE CONNECTION
1" = 1'-0"

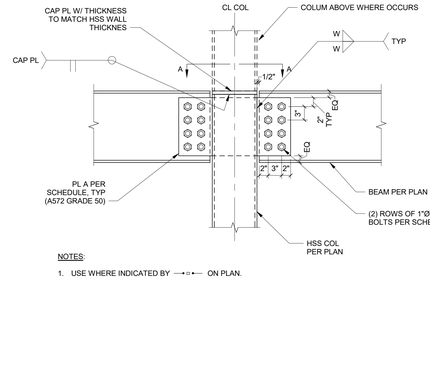


9B BRACE FOUNDATION ANCHORAGE
1" = 1'-0"



9C NON-BRACE ANCHORAGE

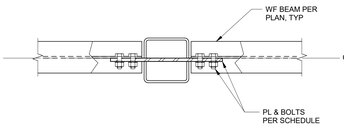
9 S53 BRACE FRAME CONNECTION
1" = 1'-0"



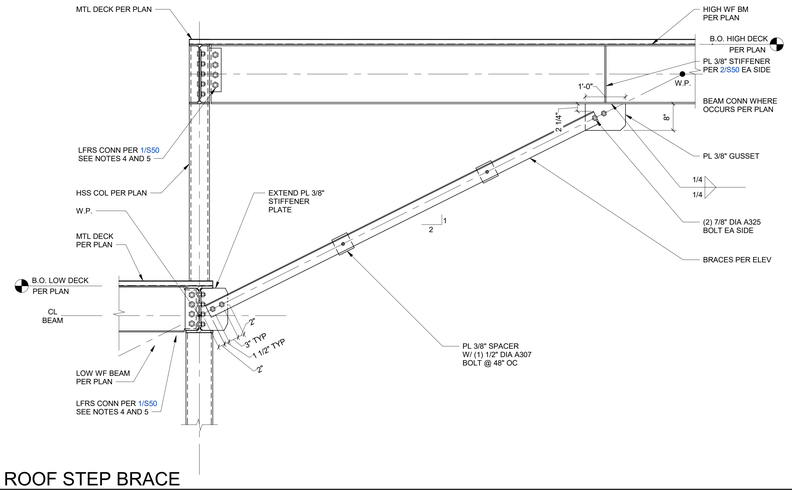
NOTES:
1. USE WHERE INDICATED BY —▫•— ON PLAN.

1 S53 TYPICAL DRAG CONNECTION HSS COLUMN
1" = 1'-0"

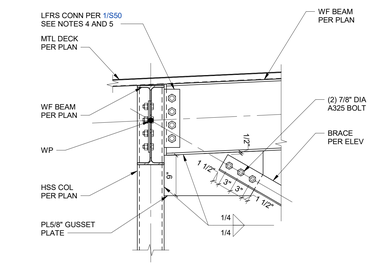
BOLTED DRAG CONNECTION SCHEDULE			
BEAM SIZE	TOTAL NO. OF BOLTS	PLATE "A" THICKNESS	WELD SIZE "W"
W12	(6)	1/2"	5/16"
W14	(6)	1/2"	5/16"
W16	(8)	1/2"	5/16"
W18	(8)	1/2"	5/16"
W21	(10)	5/8"	1/2"
W24	(12)	5/8"	1/2"
W27	(14)	5/8"	1/2"



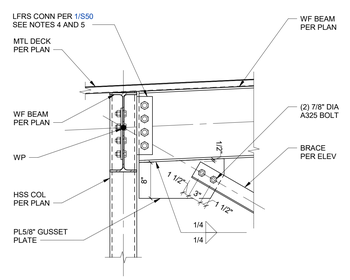
SECTION A-A



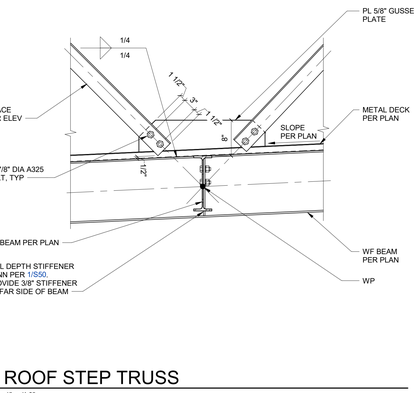
2 S53 ROOF STEP BRACE
3/4" = 1'-0"



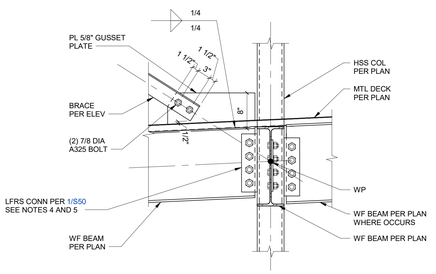
5 S53 ROOF STEP TRUSS
1" = 1'-0"



3 S53 ROOF STEP BRACE
1" = 1'-0"



6 S53 ROOF STEP TRUSS
1" = 1'-0"



4 S53 ROOF STEP BRACE
1" = 1'-0"

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CSHQA

AGENCY REVIEW SET

PROJECT	DATE
102122000038	04-17-23
DRAWN	CHECKED
PINN	NLP

REVISED

kpff
412 E. Park Center Blvd.
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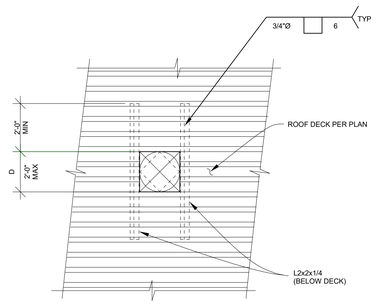
Boise, ID 83706
O: 208.336.6985
www.kpff.com

SHEET TITLE
STEEL DETAILS - LATERAL

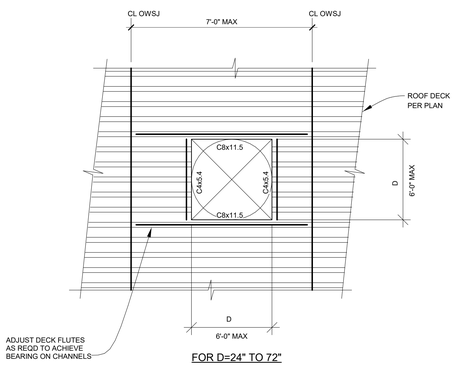
SHEET
S53

ORIGINAL SHEET SIZE
36" x 48"

4/12/2023 5:13:55 PM



FOR D=6" TO 24"



FOR D=24" TO 72"

NOTES:

1. HOLES LESS THAN 6"Ø AND CUTTING NO MORE THAN 1 WEB REQUIRE NO REINFORCEMENT.
2. ALL METAL DECK OPENINGS SHOWN ABOVE APPLY ONLY TO DUCTWORK, PIPING, ROOF HATCHES AND SMALL AIR SHAFTS.
3. THESE REINFORCED OPENINGS ARE NOT INTENDED TO SUPPORT MECHANICAL EQUIPMENT.

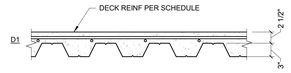
5 S55 TYPICAL OPENING DETAILS FOR METAL DECKS

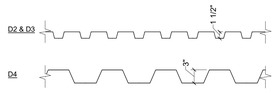
1 1/2" = 1'-0"

MARK	STEEL DECK TYPE	GAGE	TOTAL THICKNESS (t)	CONCRETE TYPE	REINFORCING	SHEAR STUD SIZES NOTES 3 & 4	STEEL DECK WELDING PATTERN				MAX UNSHORED SPAN		
							END	INT	SEAM	MARGINAL	SINGLE SPAN	DOUBLE SPAN	TRIPLE SPAN
D1	W3 OR PLW3	20	5 1/2"	f'c=4,000 PSI NWT.	#4 @ 12" OC EA WAY	3/4"ø x 4 1/2"	3/4"Ø PUDDLE WELD @ 36/3	3/4"Ø PUDDLE WELD @ 36/3	BUTTON PUNCH @ 12" OC	3/4"Ø PUDDLE WELD @ 36/3	8'-6"	11'-0"	10'-6"
D2	PLB-36 OR HSB-36	18	1 1/2"	N/A	N/A	N/A	3/4"Ø PUDDLE WELD @ 36/4	3/4"Ø PUDDLE WELD @ 36/4	PUNCHLOK II @ 12" OC	3/4"Ø PUDDLE WELD @ 36/4	5'-0"	7'-0"	7'-0"
D3	PLB-36 OR HSB-36	20	1 1/2"	N/A	N/A	N/A	HILTI X-HSN24 PAF @ 36/4	HILTI X-HSN24 PAF @ 36/4	PUNCHLOK II @ 12" OC	HILTI X-HSN24 PAF @ 36/4	5'-0"	6'-6"	6'-6"
D4	PLN-3 OR PLN-24	20	3"	N/A	N/A	N/A	3/4"Ø PUDDLE WELD @ 36/3	3/4"Ø PUDDLE WELD @ 36/3	VSC2 @ 12"	3/4"Ø PUDDLE WELD @ 36/3	9'-0"	N/A	N/A

NOTES:

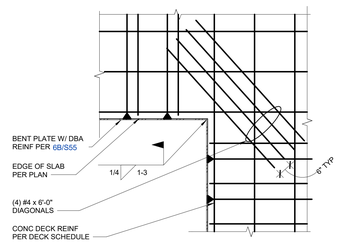
1. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.
2. END LAPPED STEEL DECK PER MANUFACTURER RECOMMENDATION.
3. HEADED SHEAR STUD LENGTHS SHALL BE AS SHOWN IN SCHEDULE AFTER WELDING.
4. FOR STUD SPACING REQUIREMENTS, REFER TO SHEET S51.
5. CONTROL JOINTS NOT REQUIRED AT ELEVATED CONCRETE DECKS.





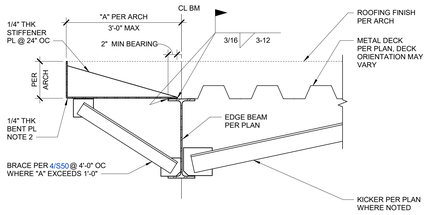
1 S55 STEEL DECK SCHEDULE

1" = 1'-0"

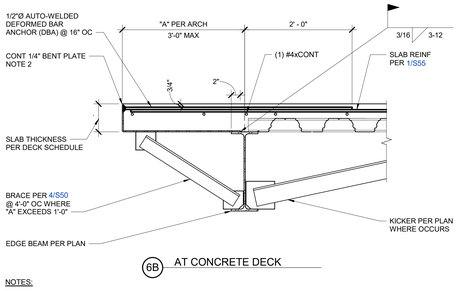


8 S55 TRIM BARS AT RE-ENTRANT CORNERS

1/2" = 1'-0"



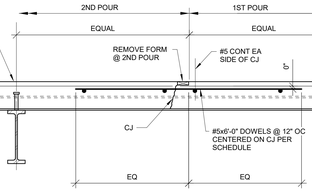
6A AT METAL DECK



6B AT CONCRETE DECK

NOTES:

1. FOR SLAB EDGE AT ELEVATOR DOOR SILL, REFER TO 10/S75.
2. EQUIVALENT 1/4" THICK ANGLES ARE ALSO ACCEPTABLE IN LIEU OF BENT PL WHERE POSSIBLE AT CONTRACTORS OPTION.

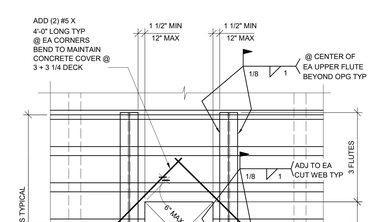


NOTES:

1. DO NOT CUT MORE THAN 2 ADJACENT WEBS.
2. HOLES LESS THAN 6" IN DIAMETER AND CUTTING NO MORE THAN 1 WEB NEED NO REINFORCING.
3. ANGLES SHALL BE PLACED ON TOP OF DECK.
4. IF DIMENSION "A" IS GREATER THAN 4D1, 4D2, OR 32" WHICHEVER IS LARGER, THEN THERE IS NO RESTRICTION ON DIMENSION "B".
5. IF DIMENSION "B" IS GREATER THAN 4D1, 4D2, OR 32" WHICHEVER IS LARGER, THEN THERE IS NO RESTRICTION ON DIMENSION "A".
6. IF DIMENSIONS "A" AND "B" ARE LESS THAN 4D1, 4D2, OR 32" WHICHEVER IS LARGER, THE OPENING GROUP WILL BE CONSIDERED AS A SINGLE HOLE, AND MUST BE REINFORCED AS REQUIRED FOR THE LARGER OPENING.
7. MAXIMUM DIMENSION FOR D1 AND D2 IS 12". HOLES CAN CUT NO MORE THAN TWO ADJACENT WEBS.
8. INSTALL ALL CANS OR SLEEVES TO MAINTAIN MIN 1/8" CLEAR BELOW TOP OF CONCRETE.

3 S55 DECK SLEEVE DETAIL

1" = 1'-0"



NOTES:

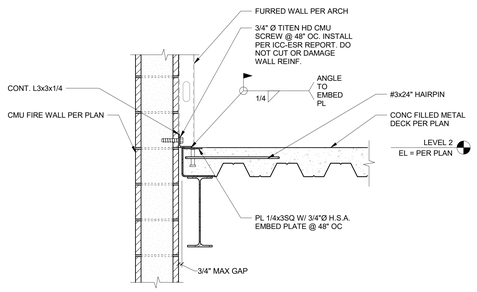
1. IF THE OPENING OR GROUP OF OPENINGS OCCUR IN ONE DECKING UNIT, THE OPENING OR OPENING GROUP MAY BE CUT PRIOR TO POURING OF CONCRETE.
2. IF THE OPENING GROUP CUTS THROUGH TWO DECKING UNITS AND THE DECKING DOES NOT CANTILEVER MORE THAT 1'-0" IN ANY LOCATION, THE OPENINGS MAY BE CUT PRIOR TO POURING OF CONCRETE. IF A LONGER CANTILEVER OCCURS, OR AT THE DISCRETION OF THE ENGINEER, DECKING SHALL NOT BE CUT UNTIL CONCRETE HAS BEEN PLACED AND CURED.
3. ADD REBAR AT CORNERS OF OPENING.
4. WHEN THE MAXIMUM DIMENSION OF AN OPENING OR OPENING GROUP EXCEEDS 24", PLACE HEADER BEAM AROUND OPENING PER PLANS.
5. ALL OPENINGS ADJACENT TO BRACED FRAME BEAMS, DRAG BEAMS, AND CHORD BEAMS CAN ONLY BE DONE WITH THE STRUCTURAL ENGINEER'S APPROVAL.

2 S55 DECK BLOCK OUT DETAIL

1" = 1'-0"

10 S55 EDGE OF DECK AT COLUMN

1" = 1'-0"

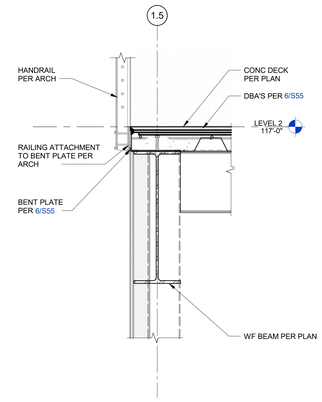


11 S55 FIRE RATED WALL ATTACHMENT

1" = 1'-0"

6 S55 TYPICAL EDGE OF DECK SUPPORT INTERIOR AND EXTERIOR

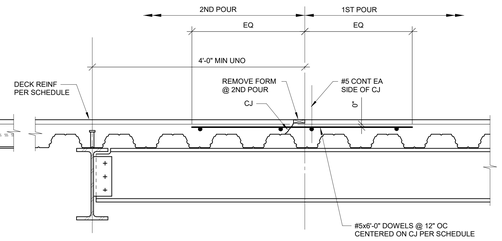
1" = 1'-0"



7 S55 AREA A LOBBY EDGE OF DECK

1" = 1'-0"

JOINT PERPENDICULAR TO DECK



JOINT PARALLEL TO DECK

4 S55 CONSTRUCTION JOINT FOR SLAB

1" = 1'-0"

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DRAWN	CHECKED
PINN	NLP

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Boise, ID 83706
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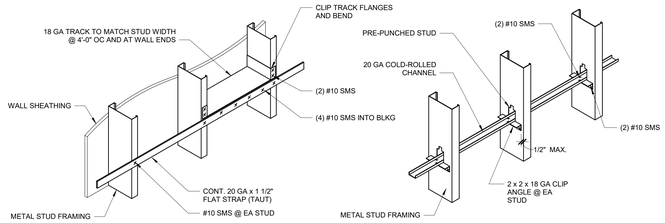
SHEET TITLE
STEEL DECK DETAILS - TYPICAL

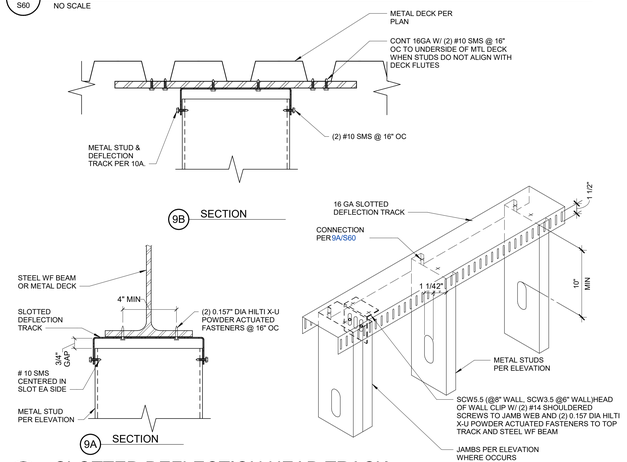
SHEET
S55

ORIGINAL SHEET SIZE
36" x 48"

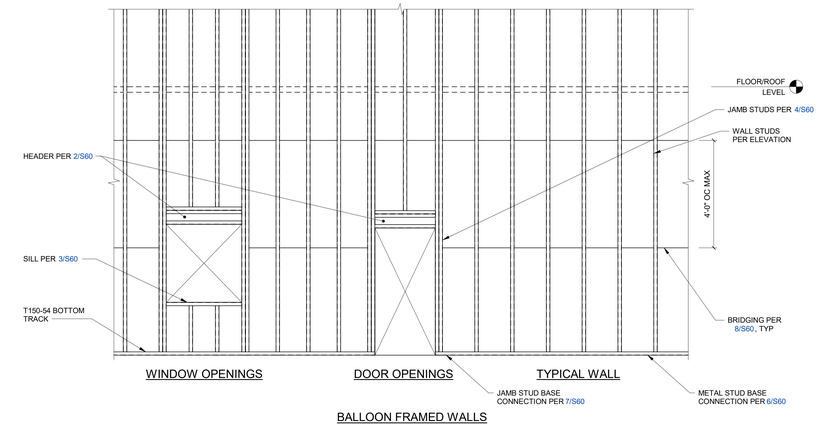
4/12/2023 5:13:58 PM



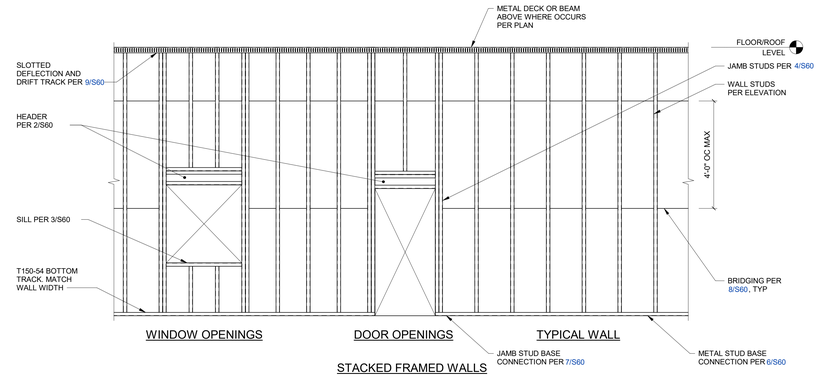
8 STUD BRACING
8 S60 — NO SCALE



9 SLOTTED DEFLECTION HEAD TRACK
9 S60 — NO SCALE



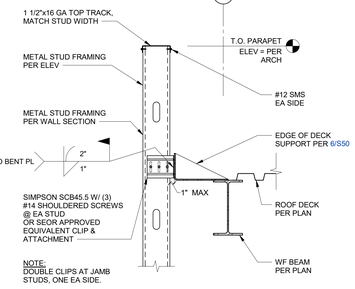
BALLOON FRAMED WALLS



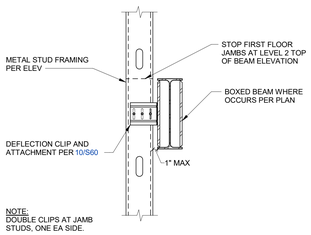
STACKED FRAMED WALLS

1 TYP EXTERIOR NON-BEARING STUD WALL ELEVATION
1 S60 — NO SCALE

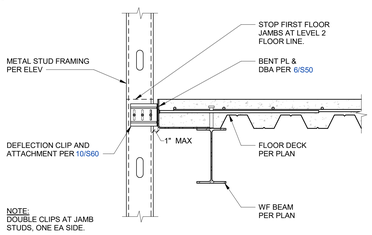
SCHEDULE			
WIDTH OF OPENING	HEADER SIZE PER 2/S60 FOR STUDS FOR HSS	SILL SIZE PER 3/S60 FOR STUDS FOR HSS	JAMB SIZE PER 4/S60 FOR STUDS FOR HSS
6'-0" MAX	(2) 800S162-54	(1) 800S162-54	(2) 800S162-54
8'-0" MAX	(3) 800S162-54	(1) 800S162-54	(3) 800S162-54
10'-0" MAX	(3) 1000S162-54	(2) 800S162-54	(3) 800S162-54
12'-0" MAX	(4) 1200S162-54	(2)800S162-54	(4) 800S162-54



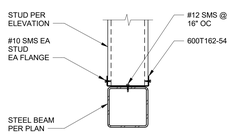
10 BYPASS CONNECTION AT ROOF (SLOTTED)
10 S60 — 1" = 1'-0"



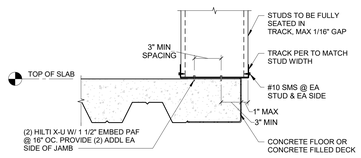
11 BYPASS CONNECTION AT BOXED BEAM
11 S60 — 1" = 1'-0"



12 BYPASS CONNECTION AT FLOOR (SLOTTED)
12 S60 — 1" = 1'-0"

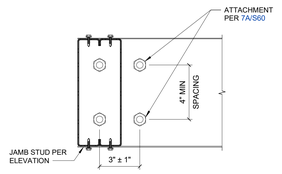


AT STEEL BEAM

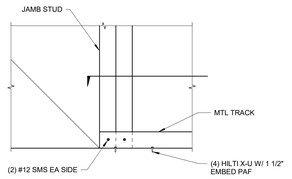


CONCRETE FLOOR OR CONCRETE DECK

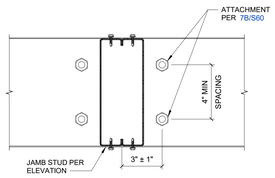
6 METAL STUD BASE CONNECTION
6 S60 — 1 1/2" = 1'-0"



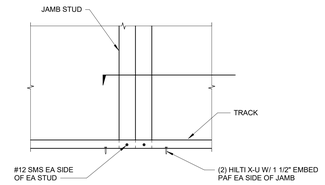
7C SECTION



7A ANCHORAGE DETAIL - EDGE CONDITION

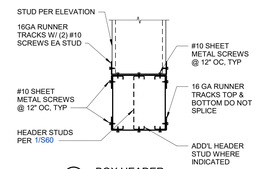


7D SECTION

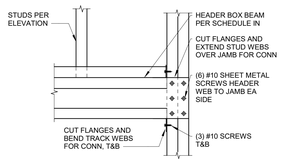


7B ANCHORAGE DETAIL - CENTER CONDITION

7 BOTTOM OF JAMB CONNECTION DETAILS
7 S60 — NO SCALE

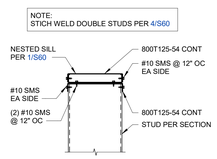


2A BOX HEADER

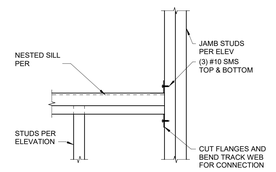


2B HEADER TO JAMB CONNECTION
NO SCALE

2 HEADER DETAILS
2 S60 — 1 1/2" = 1'-0"

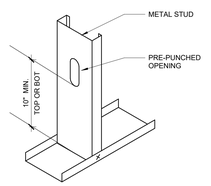


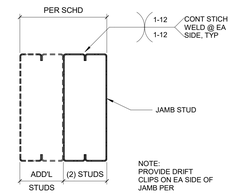
3A BUILT-UP SILL



3B SILL TO JAMB CONNECTION
NO SCALE

3 SILL DETAILS
3 S60 — 1 1/2" = 1'-0"





5 PUNCHED STUDS LIMITS
5 S60 — NO SCALE

4 TYPICAL JAMB STUD DETAIL
4 S60 — 3" = 1'-0"

4/12/2023 5:14:00 PM

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102122000038	04-17-23
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PINN	NLP

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O: 208.336.6985
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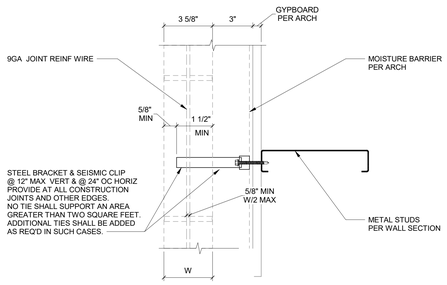
COLD-FORMED METAL FRAMING DETAILS

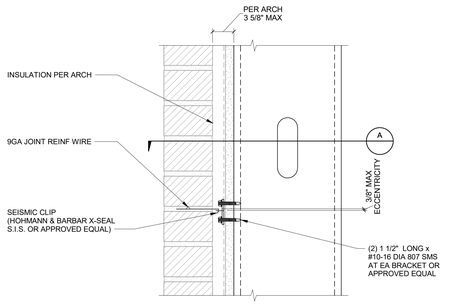
SHEET

S60

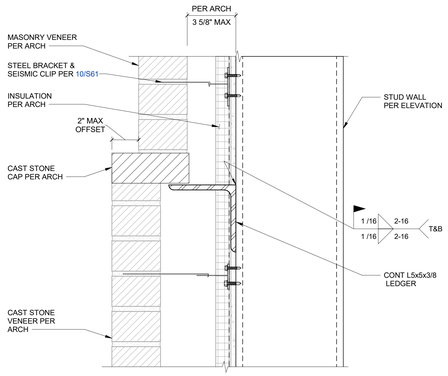
ORIGINAL SHEET SIZE 36" x 48"



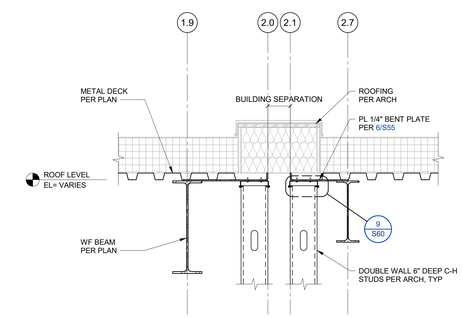
A SECTION



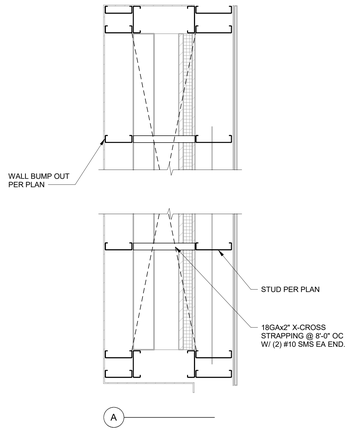
10 S61 TYPICAL BRICK METAL STUD CONN
3" = 1'-0"

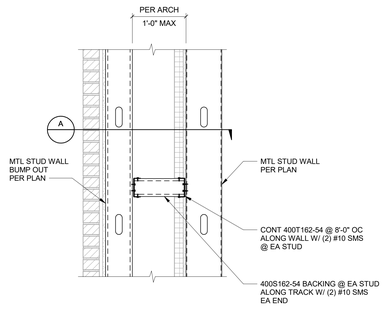


11 S61 RELIEF ANGLE AT WAINSCOT CLADDING
3" = 1'-0"

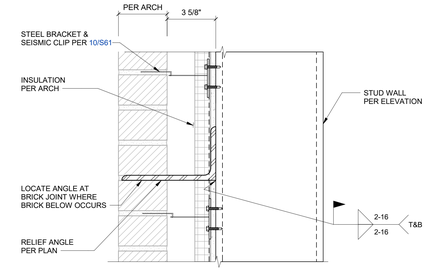


8 S61 RATED METAL STUD AT BUILDING SEPARATION
1" = 1'-0"

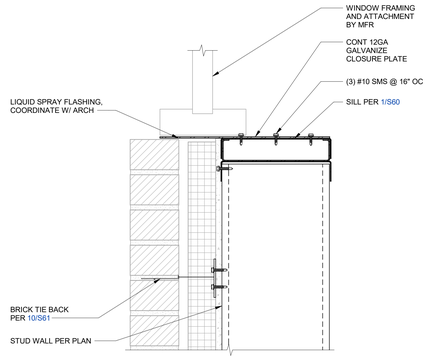




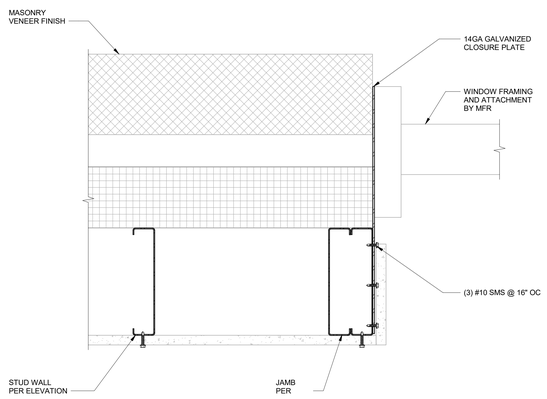
9 S61 DOUBLE WALL AT WALL BUMPOUT
1" = 1'-0"



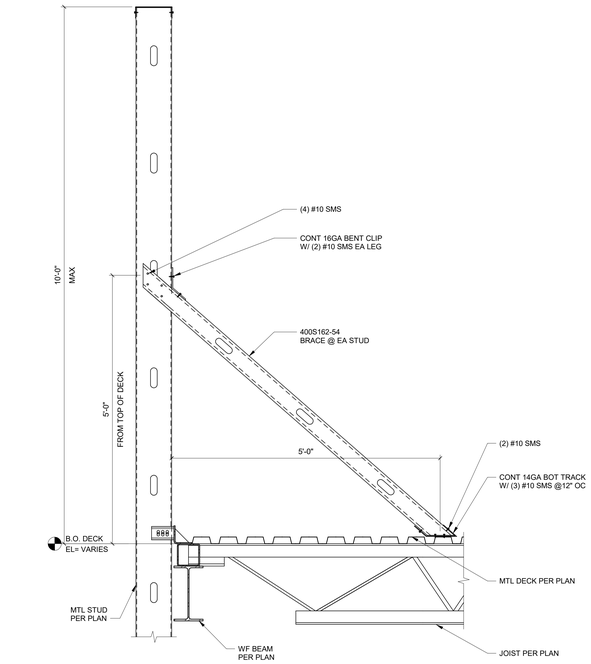
4 S61 RELIEF ANGLE AT METAL STUD
3" = 1'-0"



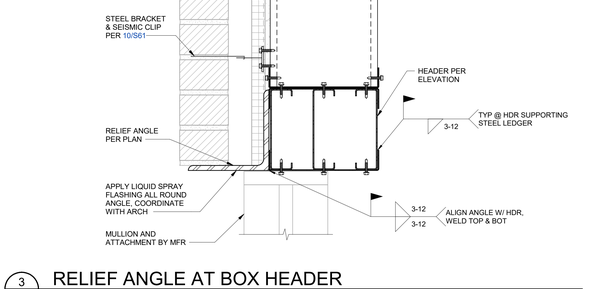
5 S61 WINDOW AT SILL
3" = 1'-0"



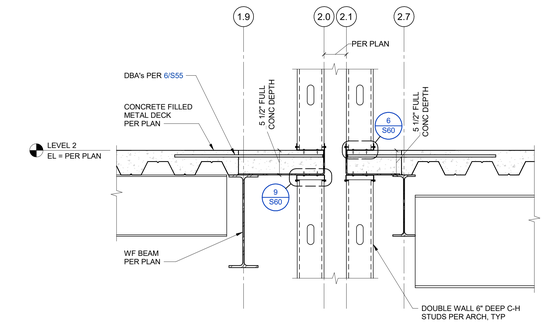
6 S61 WINDOW/ DOOR AT JAMB
3" = 1'-0"



1 S61 PARAPET WALL AND METAL STUD BRACE
1" = 1'-0"



2 S61 PARAPET WALL AND METAL STUD BRACE
1" = 1'-0"



7 S61 RATED METAL STUD AT BUILDING SEPARATION
1" = 1'-0"

3 S61 RELIEF ANGLE AT BOX HEADER
3" = 1'-0"

4/12/2023 5:14:02 PM

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Suite 200
Boise, ID 83706
O: 208.336.6985
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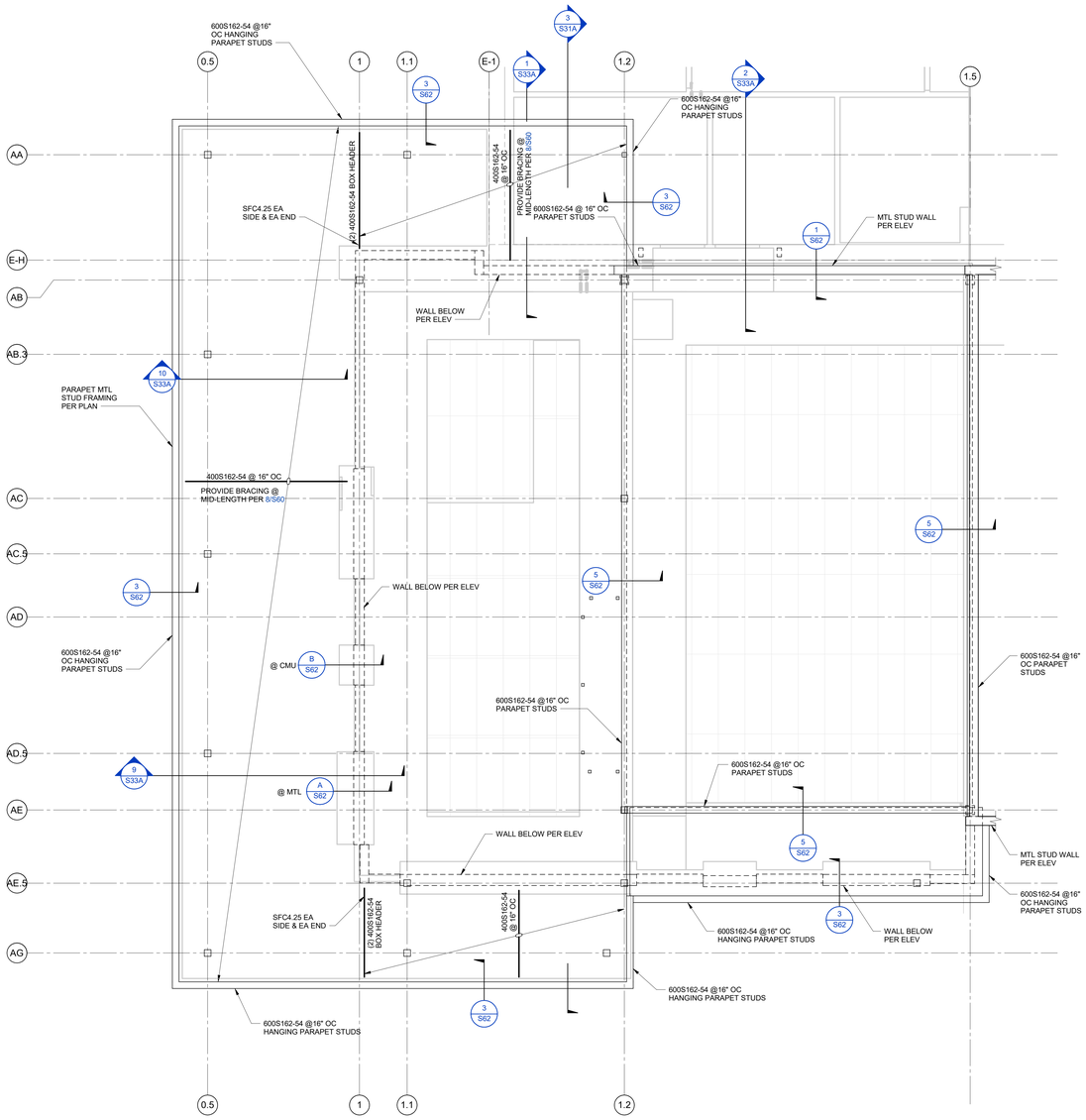
COLD-FORMED METAL FRAMING DETAILS

SHEET

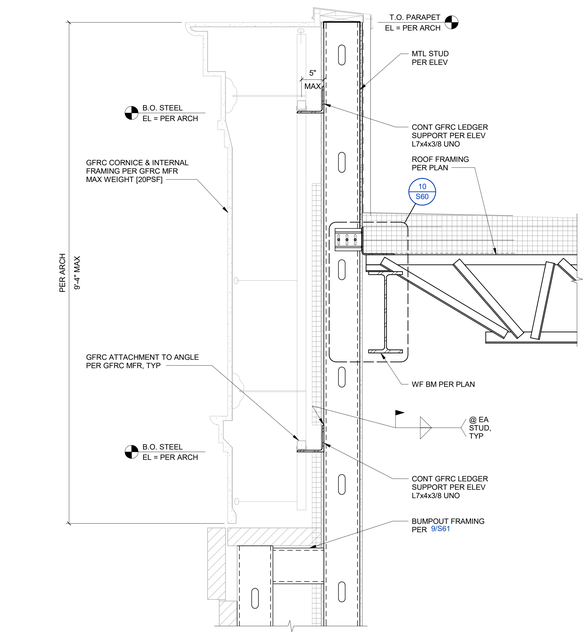
S61

ORIGINAL SHEET SIZE
36" x 48"



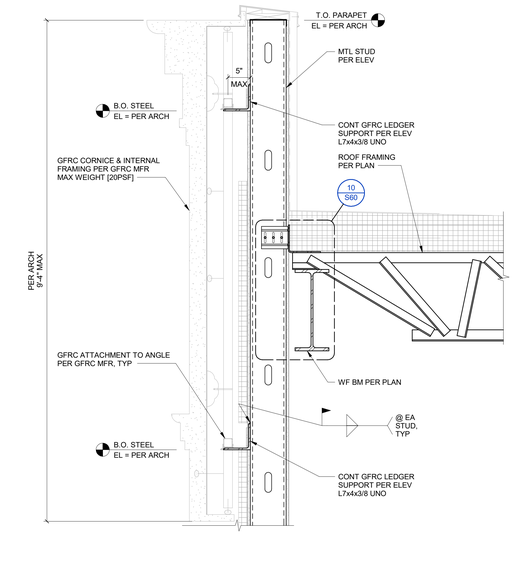
6 S62 EXTERIOR METAL STUD SOFFIT FRAMING

1/4" = 1'-0"



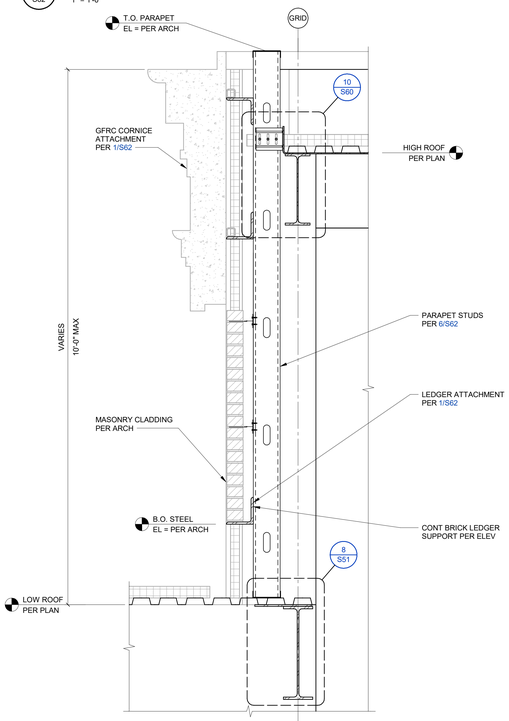
4 S62 GFRC CORINCE ATTACHMENT

1" = 1'-0"



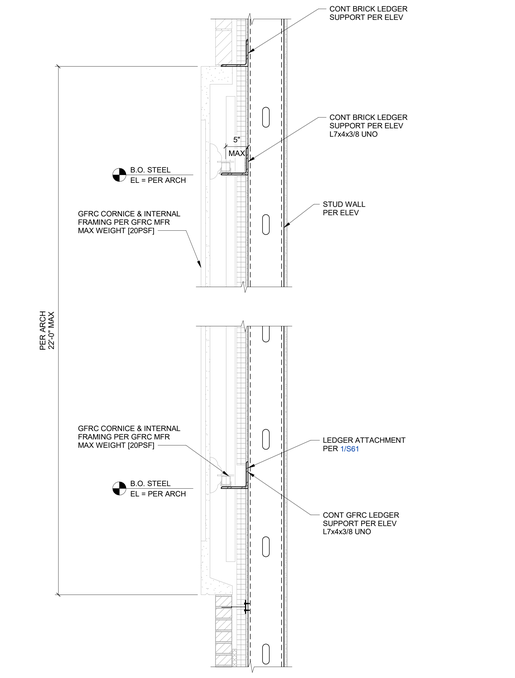
1 S62 GFRC CORNICE ATTACHMENT

1" = 1'-0"



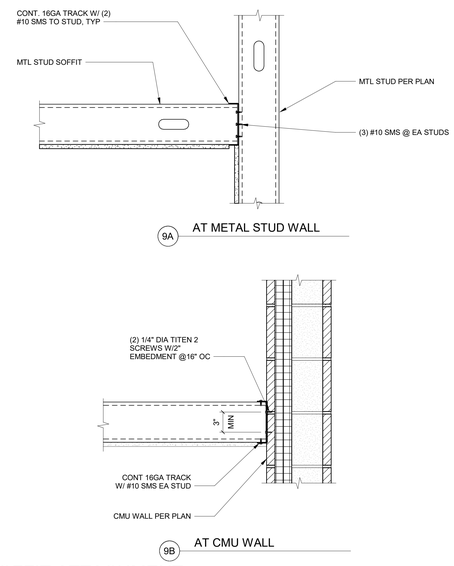
5 S62 AREA A - ROOF STEP PARAPET

1" = 1'-0"



2 S62 GFRC WALL PANEL ATTACHMENT

1" = 1'-0"

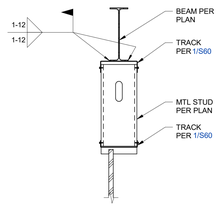


9A AT METAL STUD WALL

9B AT CMU WALL

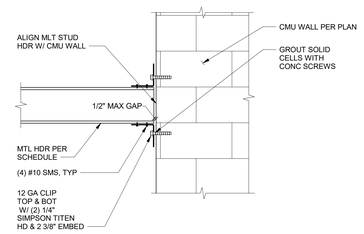
9 S62 EXTERIOR SOFFIT ATTACHMENT

1" = 1'-0"



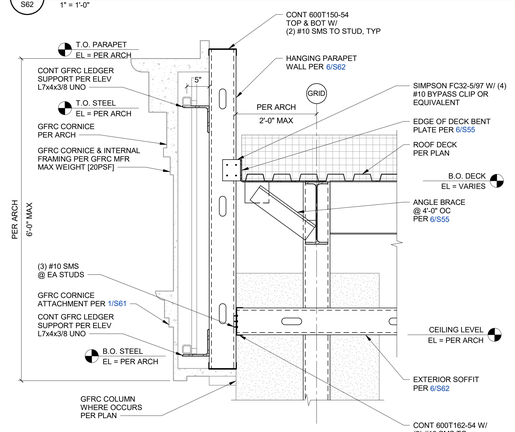
8 S62 HANGING MTL STUDS

1" = 1'-0"



7 S62 MTL HDR TO CMU WALL CONN

1" = 1'-0"



3 S62 GFRC CORNICE AT ROOF OVERHANG

1" = 1'-0"

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12033
STATE OF IDAHO
JOSEPH M. HEITT

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COLD-FORMED METAL FRAMING DETAILS

SHEET

S62

ORIGINAL SHEET SIZE 36" x 48"

200 BROAD STREET
BOISE, ID 83702
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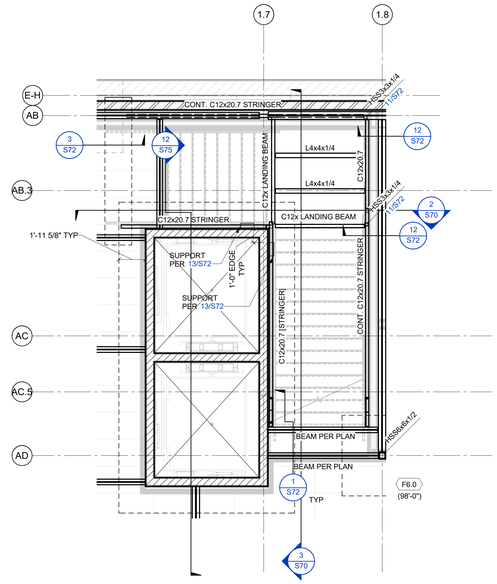
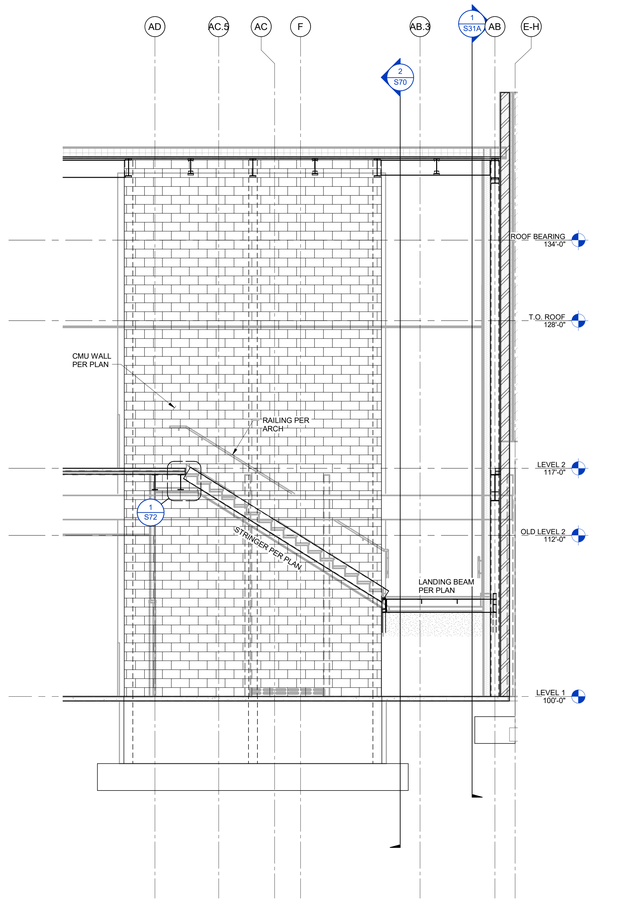
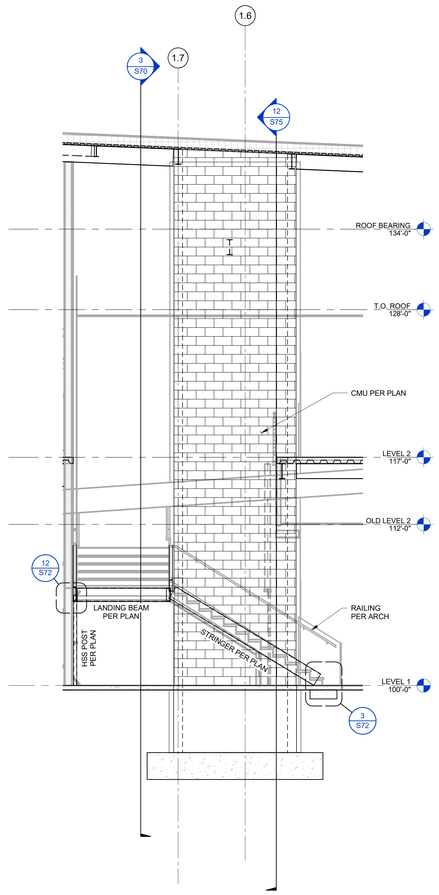


1 S70 AREA A - STAIR SECTION
1/4" = 1'-0"



3 S70 SECTION
1/4" = 1'-0"



2 S70 SECTION
1/4" = 1'-0"

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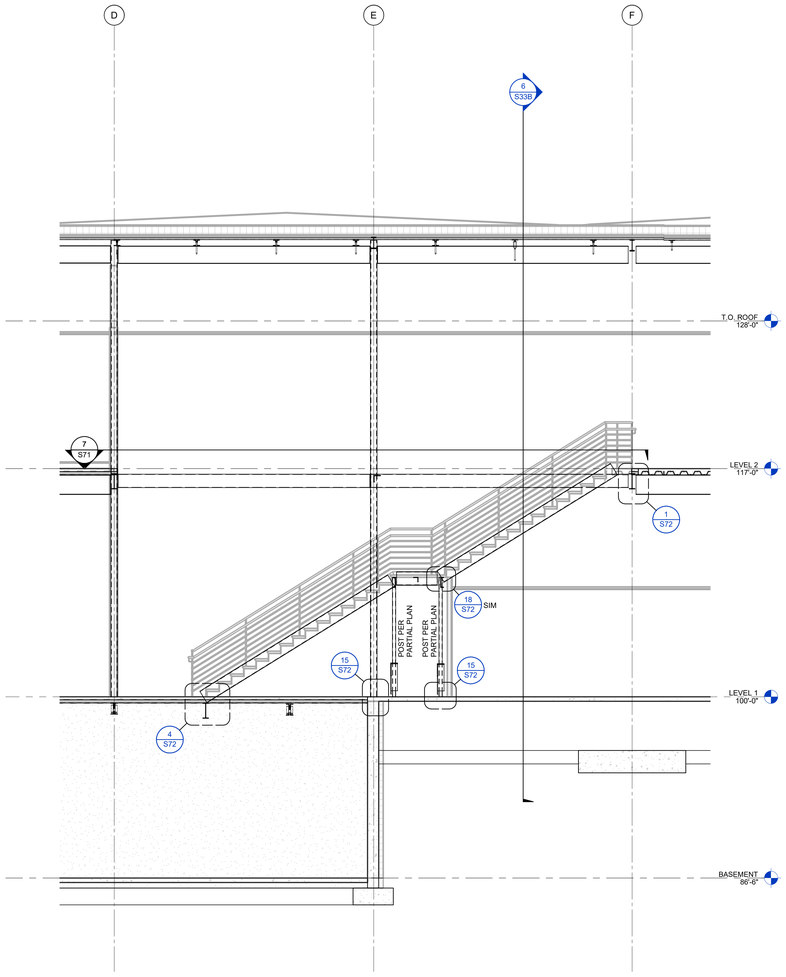
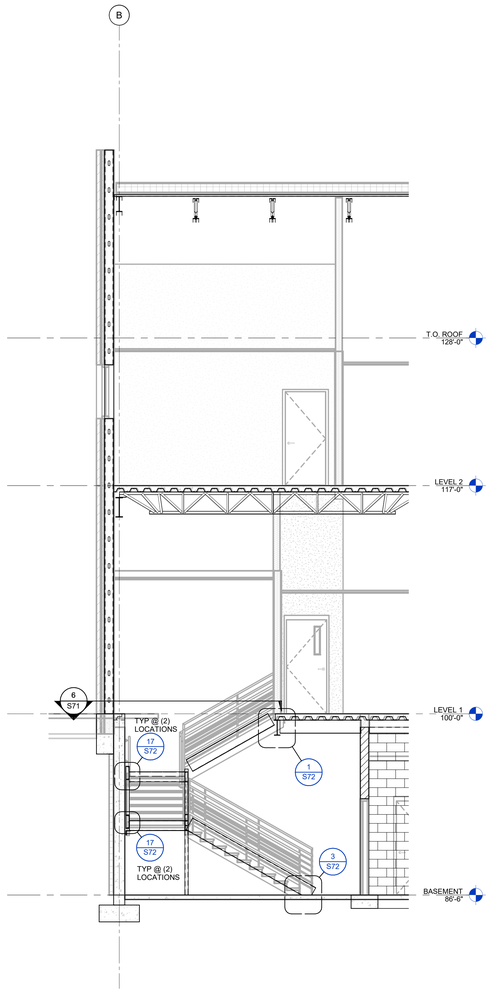
STEEL STAIR PLAN & SECTION - AREA A

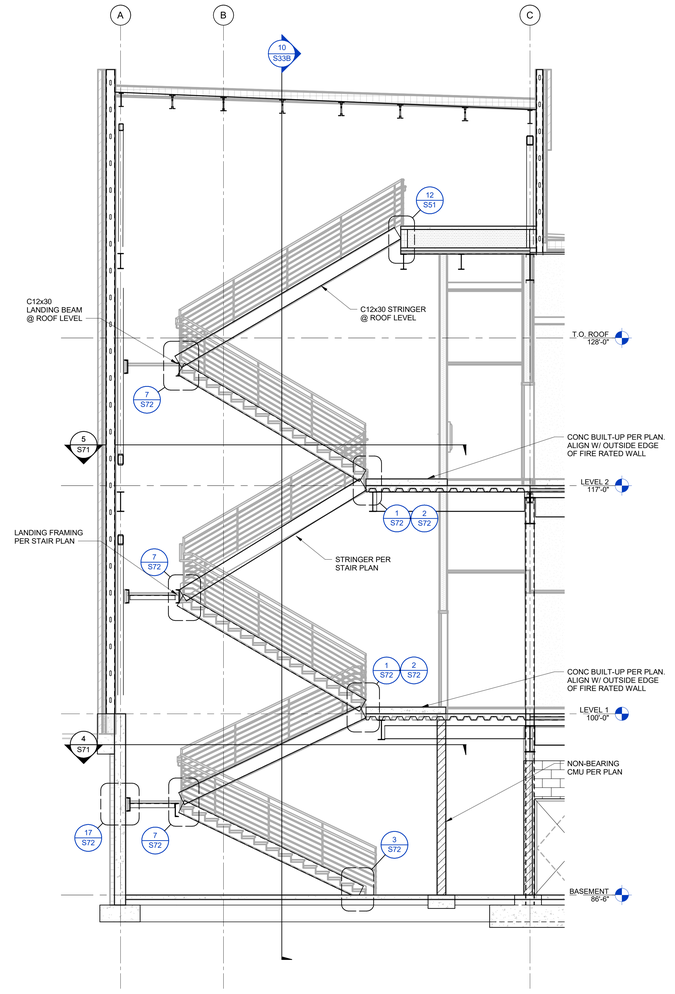
SHEET

S70

ORIGINAL SHEET SIZE
36" x 48"

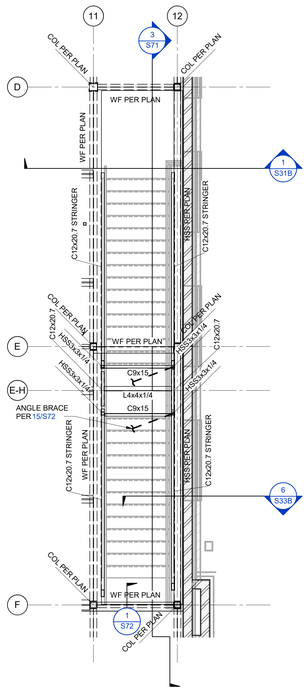






3 S71 AREA B - EAST STAIR SECTION

1/4" = 1'-0"

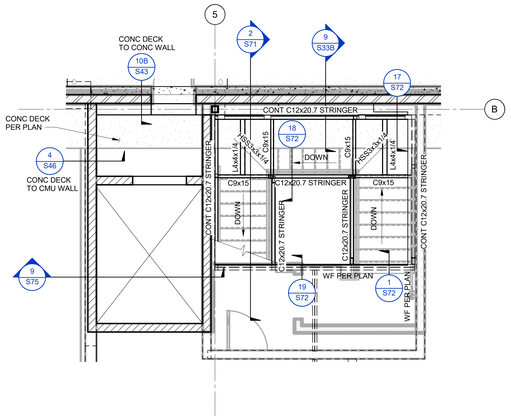


7 S71 AREA B - EAST STAIR - TYPICAL FRAMING PLAN

1/4" = 1'-0"

2 S71 AREA B - NORTH STAIR SECTION

1/4" = 1'-0"

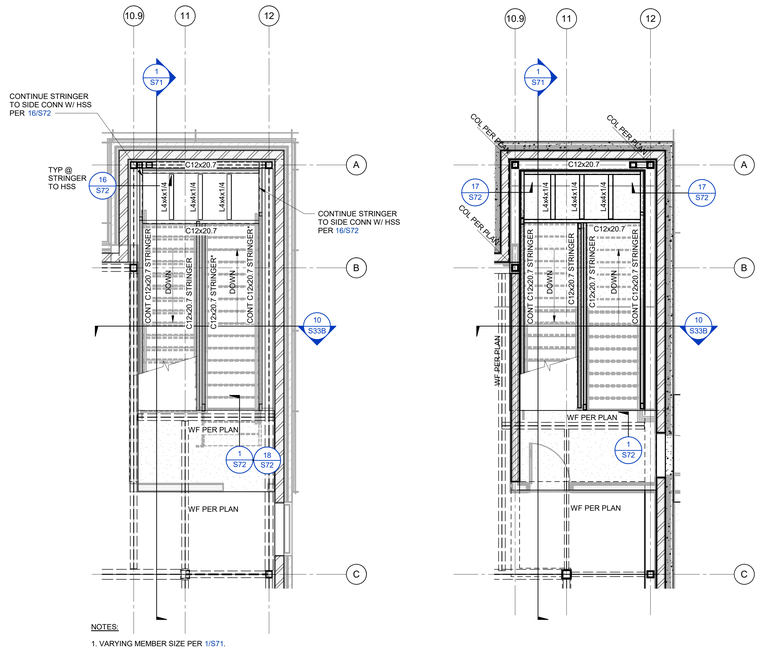


6 S71 AREA B - NORTH STAIR - TYPICAL FRAMING PLAN

1/4" = 1'-0"

1 S71 AREA B - NORTHEAST STAIR SECTION

1/4" = 1'-0"



5 S71 AREA B - NORTHEAST STAIR - UPPER FRAMING PLAN

1/4" = 1'-0"

4 S71 AREA B - NORTHEAST STAIR - BASEMENT FRAMING PLAN

1/4" = 1'-0"

4/12/2023 5:14:14 PM

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THERON W. WARD JUDICIAL BUILDING REMODEL & EXPANSION

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http://www.cshqa.com

CSHQA

PROFESSIONAL ENGINEER
REGISTERED
12033
STATE OF IDAHO
JOSEPH M. HEITY

AGENCY REVIEW SET

PROJECT	DATE
102122000038	04-17-23
DRAWN	CHECKED
PINN	NLP

REVISED

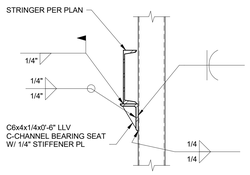
kpff
412 E. Park Center Blvd.
Suite 200
Boise, ID 83706
O: 208.336.6985
www.kpff.com

STEEL STAIR PLAN & SECTION - AREA B

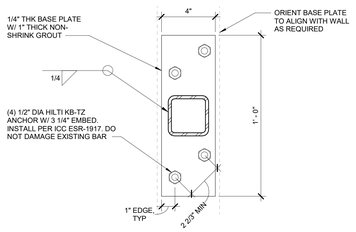
SHEET

S71

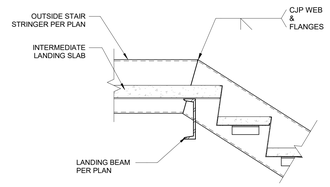
ORIGINAL SHEET SIZE
36" x 48"



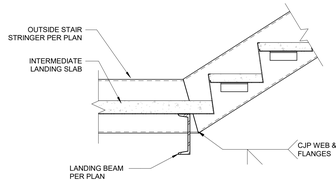
16 S72 NORTHEAST STAIR CONNECTION
1" = 1'-0"



11 S72 STAIR COL TO THICKENED SLAB
3" = 1'-0"

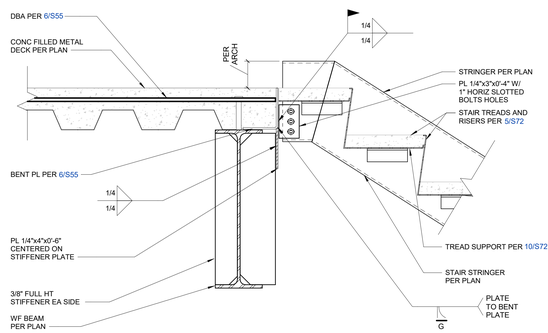


A DOWN STRINGER

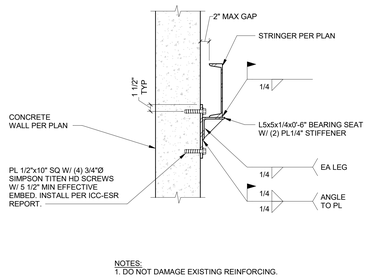


B UP STRINGER

6 S72 STRINGER SPLICE
1" = 1'-0"

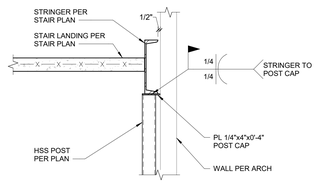


1 S72 STRINGER CONNECTION AT FLOOR
1 1/2" = 1'-0"

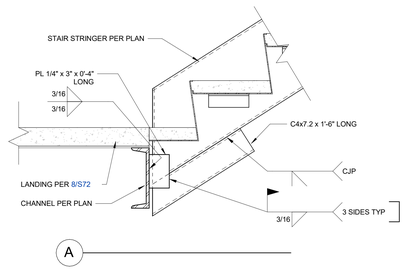


NOTES:
1. DO NOT DAMAGE EXISTING REINFORCING.

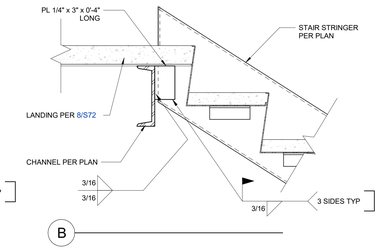
17 S72 STRINGER TO CONCRETE WALL
1" = 1'-0"



12 S72 STRINGER OVER POST
1" = 1'-0"

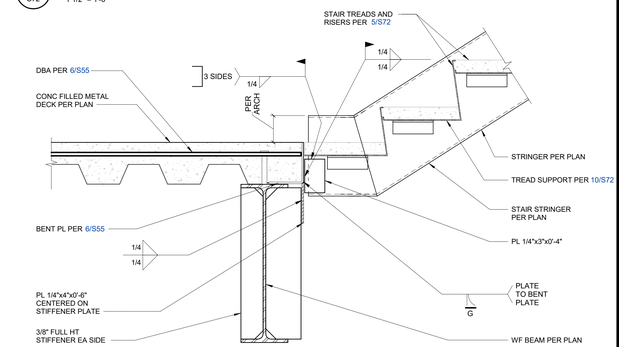


A

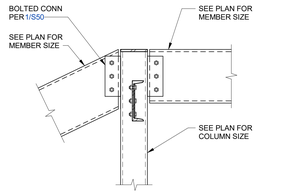


B

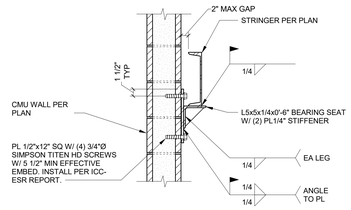
7 S72 STRINGER CONNECTION AT LANDING
1 1/2" = 1'-0"



2 S72 STRINGER CONNECTION AT FLOOR
1 1/2" = 1'-0"

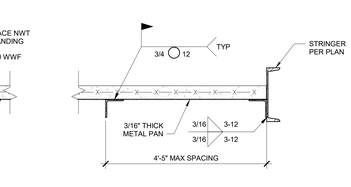


18 S72 STAIR POST CONNECTION
1" = 1'-0"

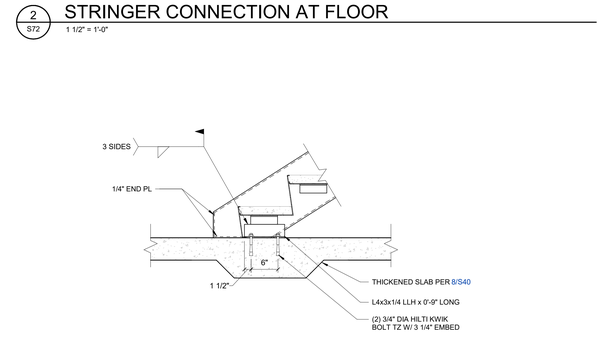


NOTES:
1. DO NOT DAMAGE EXISTING REINFORCING.

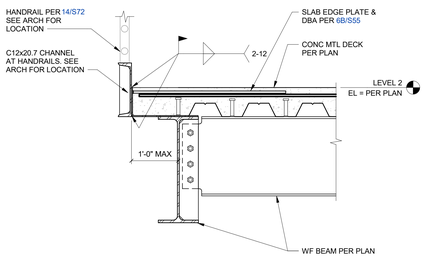
13 S72 STAIR STRINGER TO CMU WALL
1" = 1'-0"



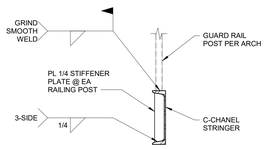
A DETAIL



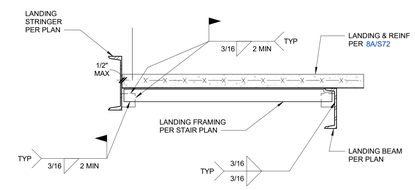
3 S72 STRINGER CONNECTION
AT SLAB ON GRADE
1" = 1'-0"



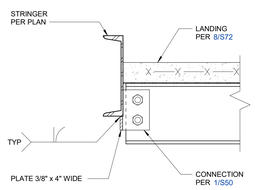
19 S72 RAILING POST AT WF BEAM
1" = 1'-0"



14 S72 GUARD RAIL TO STRINGER
1" = 1'-0"

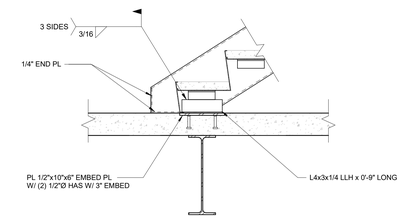


B LANDING FRAMING CONNECTION

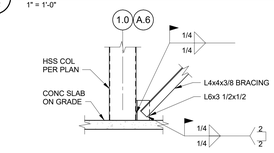


C LANDING BEAM CONNECTION

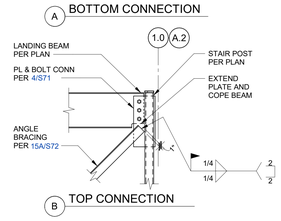
8 S72 LANDING SECTION
1" = 1'-0"



4 S72 STRINGER CONNECTION ABOVE BASEMENT DECK
1" = 1'-0"

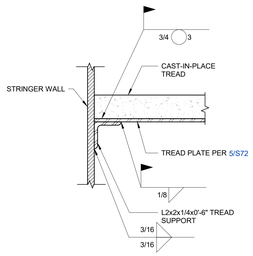


A BOTTOM CONNECTION

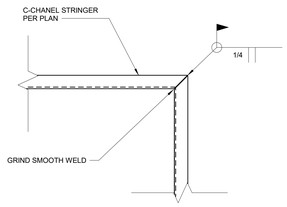


B TOP CONNECTION

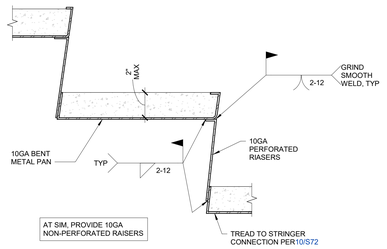
15 S72 STAIR LANDING BRACING
1/2" = 1'-0"



10 S72 TREAD CONNECTION
3" = 1'-0"



9 S72 STRINGER CORNER CONNECTION
1 1/2" = 1'-0"



5 S72 RAISER CONNECTION
3" = 1'-0"

JOSEPH HEITT, P.E.,S., P.E.P.S., ASC/STRUCT
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AGENCY REVIEW SET

PROJECT	DATE
10212200038	04-17-23
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PINN	NLP

REVISED

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Boise, ID 83706
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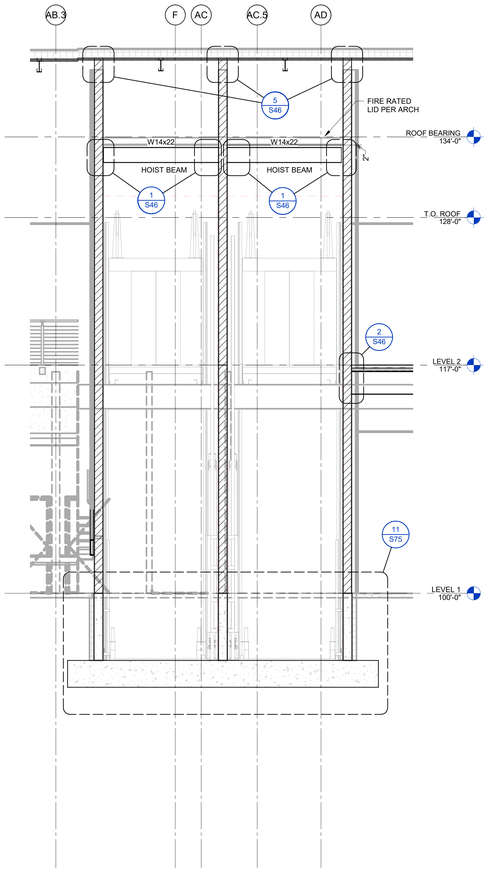
www.kpff.com

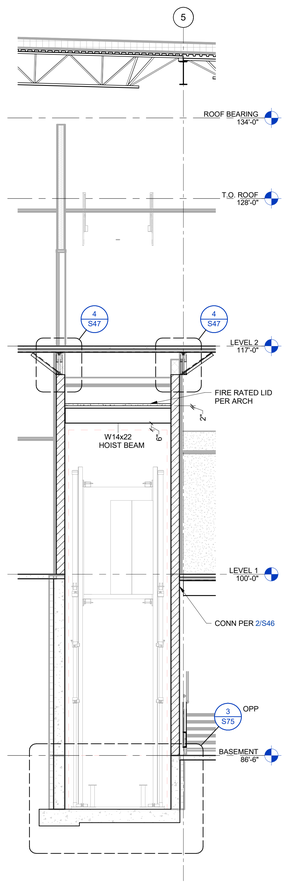
SHEET TITLE
STEEL STAIR DETAILS

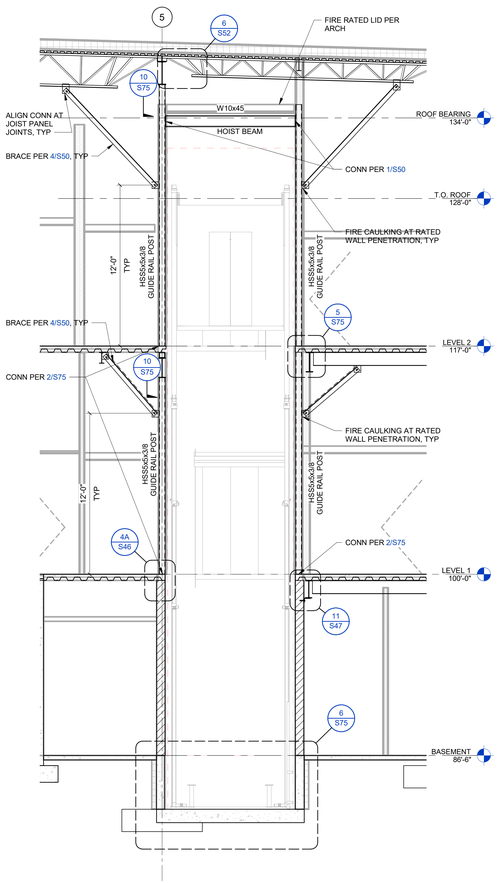
SHEET
S72

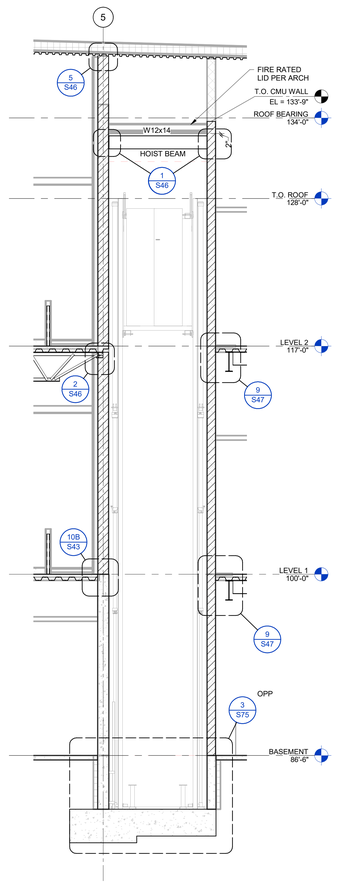
ORIGINAL SHEET SIZE
36" x 48"

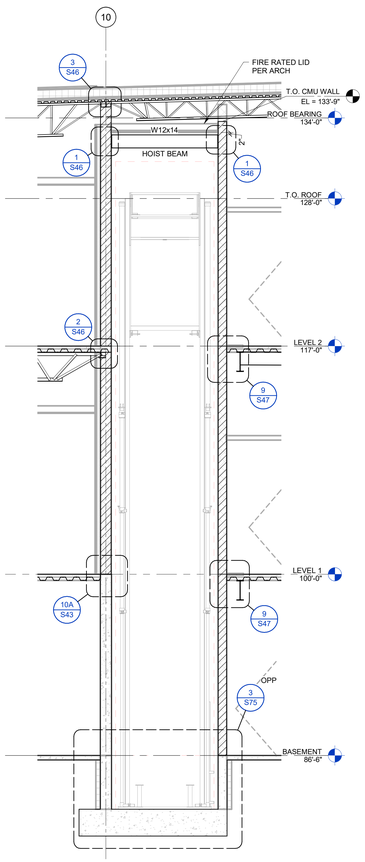
4/12/2023 5:14:17 PM



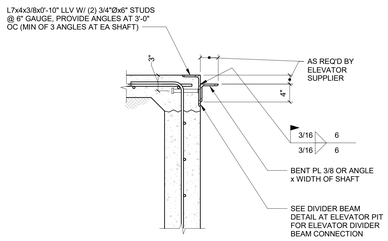




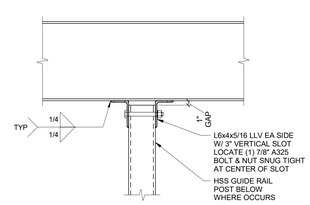




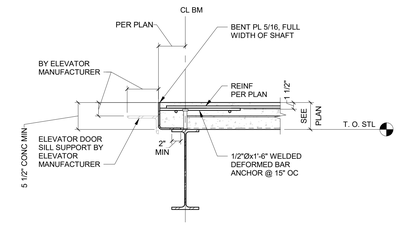
12 S75 ELEVATOR SECTION
1/4" = 1'-0"



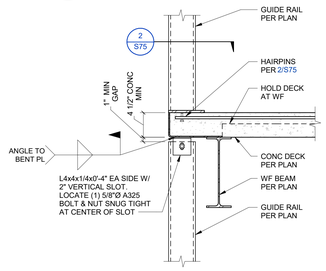
9 S75 ELEVATOR SECTION
1/4" = 1'-0"



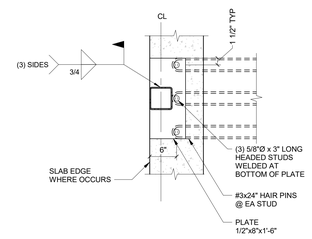
7 S75 ELEVATOR SECTION
1/4" = 1'-0"



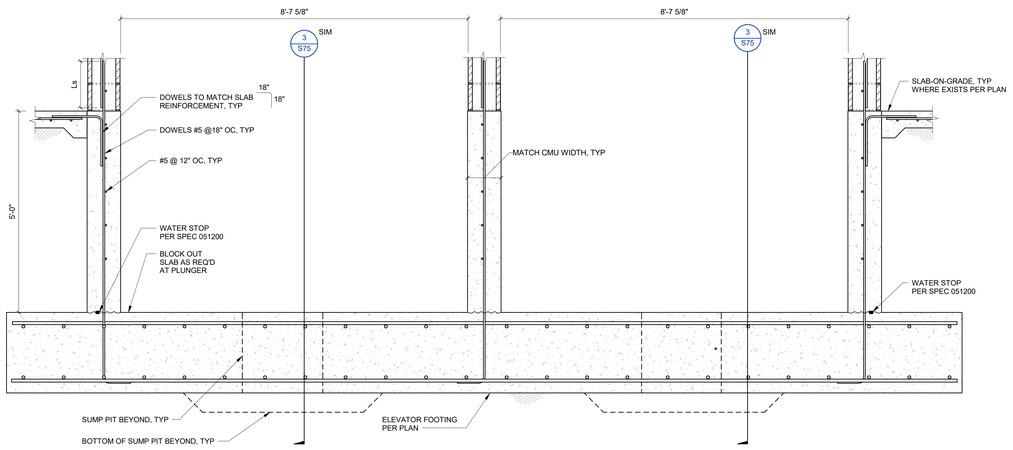
4 S75 ELEVATOR SECTION
1/4" = 1'-0"



1 S75 ELEVATOR SECTION
1/4" = 1'-0"



13 S75 ELEVATOR SILL DETAIL
1" = 1'-0"



NOTES:

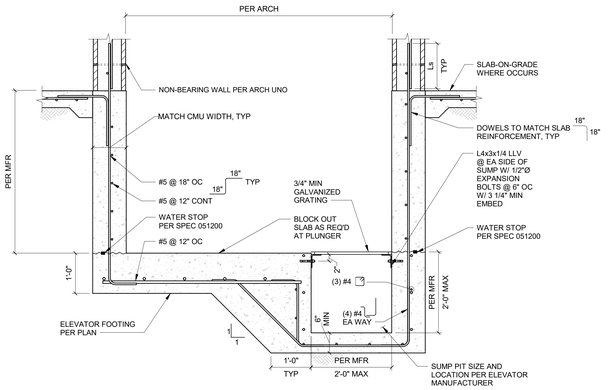
1. ELEVATOR SILL IS NOT SHOWN. SILL LOCATION PER ELEVATOR MANUFACTURER AND PER DETAIL 13/S75 .
2. SEE 3/S75 FOR INFO ON SUMP PIT SIZE AND REINFORCING.

10 S75 HSS GUIDE RAIL - HEAD CONNECTION
1" = 1'-0"

8 S75 SLAB EDGE AT ELEVATOR DOOR SILLS
1" = 1'-0"

5 S75 HSS GUIDE RAIL - MID CONNECTION
1" = 1'-0"

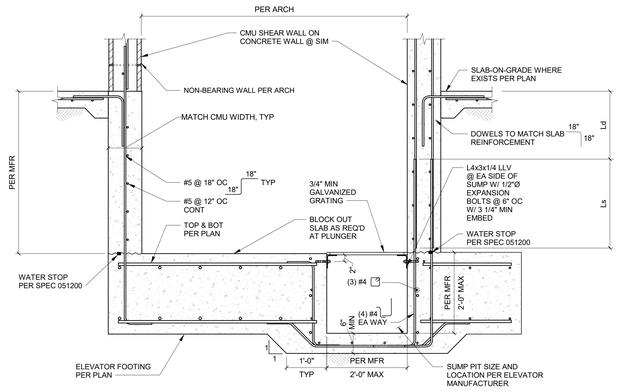
2 S75 HSS GUIDE RAIL - BASE CONNECTION
1" = 1'-0"



NOTES:

1. ELEVATOR SILL IS NOT SHOWN. SILL LOCATION PER ELEVATOR MANUFACTURER AND PER DETAIL 13/S75 .
2. COORDINATION SUMP PIT LOCATION AND SIZE WITH ELEVATOR MANUFACTURER PRIOR TO INSTALL.

6 S75 ELEVATOR PIT DETAIL
NO SCALE



NOTES:

1. ELEVATOR SILL IS NOT SHOWN. SILL LOCATION PER ELEVATOR MANUFACTURER AND PER DETAIL 13/S75 .
2. COORDINATION SUMP PIT LOCATION AND SIZE WITH ELEVATOR MANUFACTURER PRIOR TO INSTALL.

11 S75 ELEVATOR PIT DETAIL - AREA A
NO SCALE

3 S75 ELEVATOR PIT DETAIL
NO SCALE

4/12/2023 5:14:24 PM

JOSEPH PETTY, P.E./L.S., P.E./P.L. ARCHITECT
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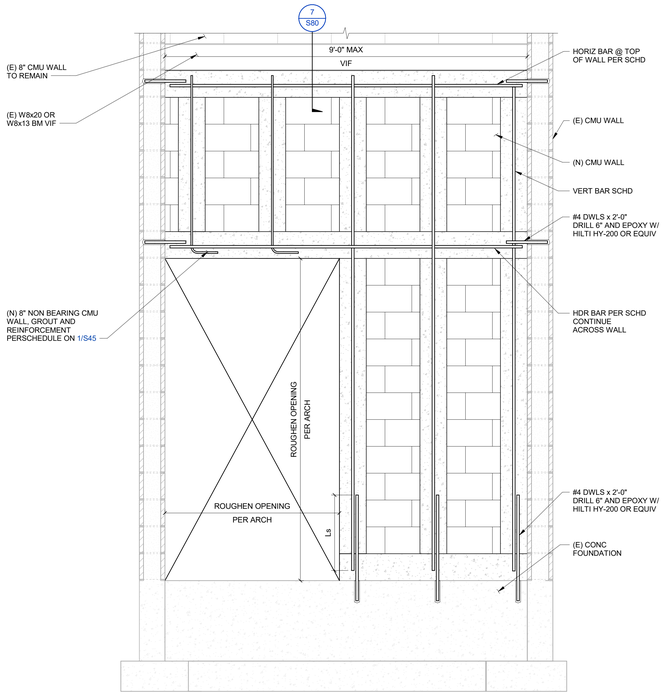
SHEET TITLE

ELEVATOR SECTIONS

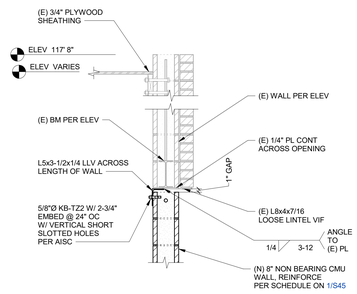
SHEET

S75

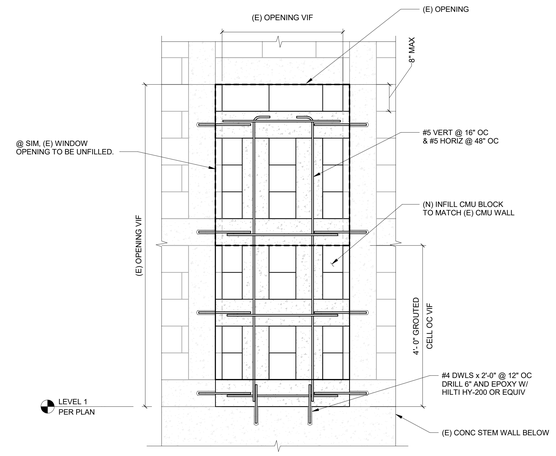
ORIGINAL SHEET SIZE
36" x 48"



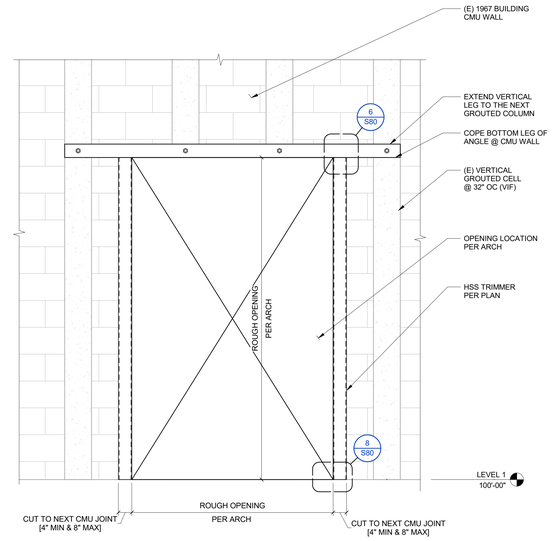
9 S80 (N) NON BEARING CMU WALL
3/4" = 1'-0"



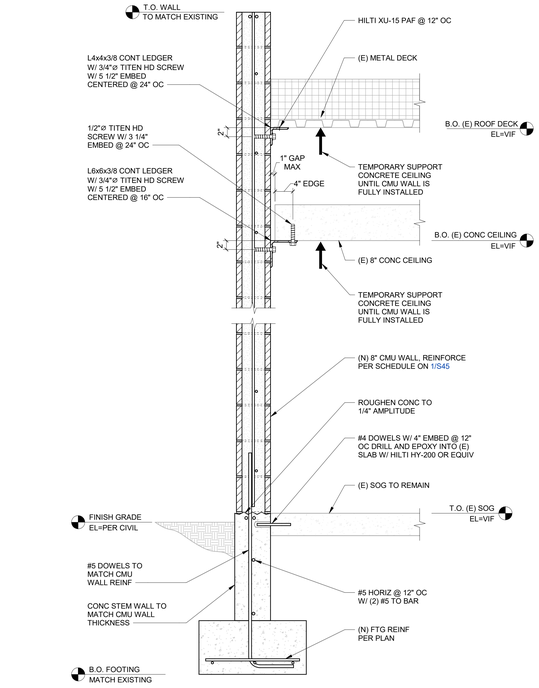
7 S80 (N) NON BEARING CMU WALL
3/4" = 1'-0"



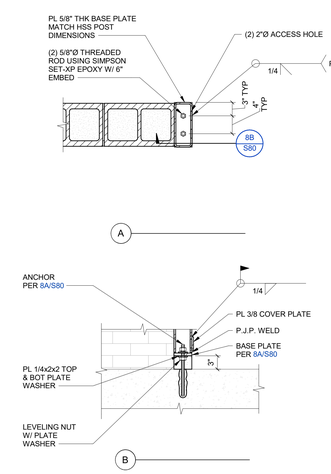
4 S80 INFILL WALL AT EXISTING OPENING
3/4" = 1'-0"



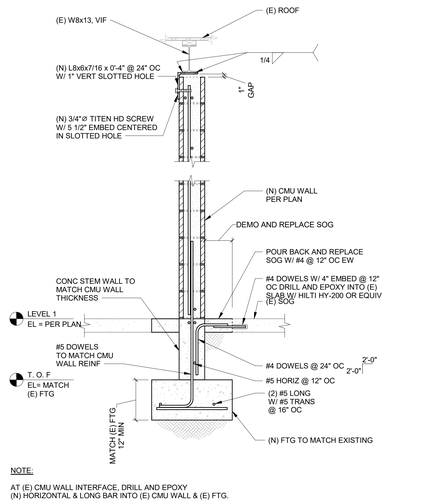
1 S80 EXISTING CMU WALL AT 1967 BUILDING
3/4" = 1'-0"



10 S80 (N) CMU PARTITION WALL
1" = 1'-0"

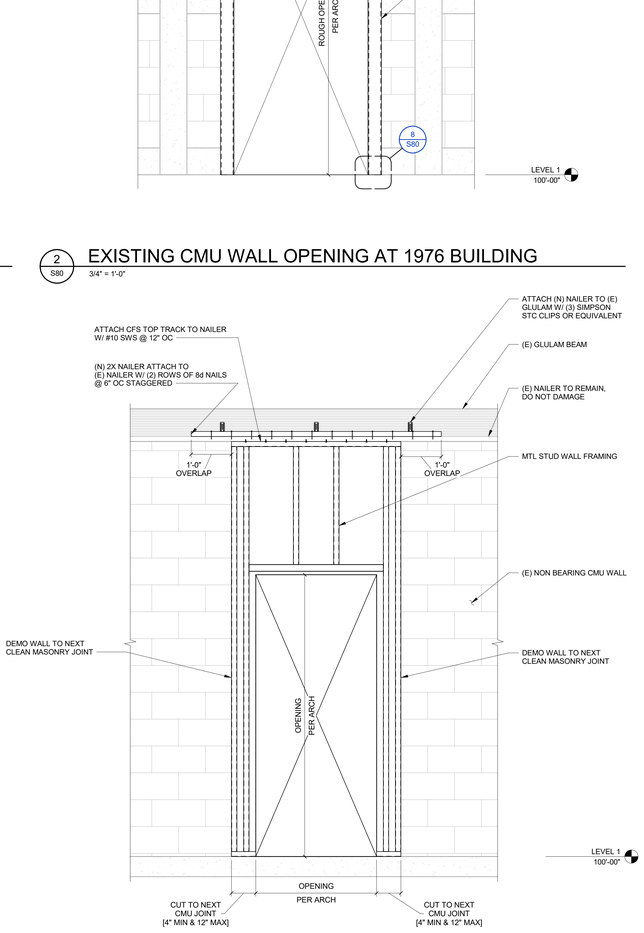


8 S80 HSS POST BASE CONNECTION
1" = 1'-0"

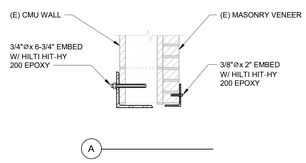


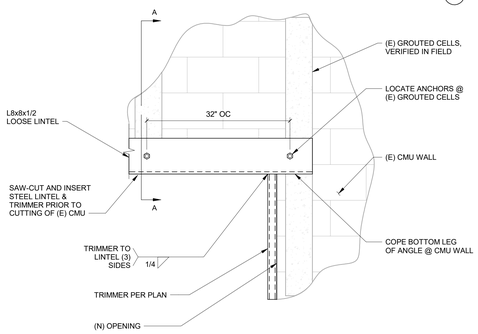
NOTE:
AT (E) CMU WALL INTERFACE, DRILL AND EPOXY
(N) HORIZONTAL & LONG BAR INTO (E) CMU WALL & (E) FTG.

5 S80 NEW CMU WALL
3/4" = 1'-0"

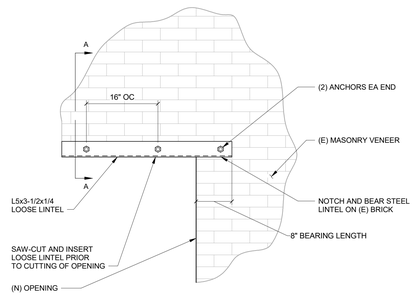


2 S80 EXISTING CMU WALL OPENING AT 1976 BUILDING
3/4" = 1'-0"





B (E) CMU WALL



C (E) BRICK FACE

6 S80 STEEL LINTEL AT NEW CMU WALL OPENINGS
1" = 1'-0"

3 S80 NEW OPENING AT NON-BEARING CMU WALL
3/4" = 1'-0"

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AGENCY REVIEW SET

PROJECT	DATE
10212200038	04-17-23
DRAWN	CHECKED
PINN	NLP

REVISED

kpff
412 E. Park Center Blvd.
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Boise, ID 83706
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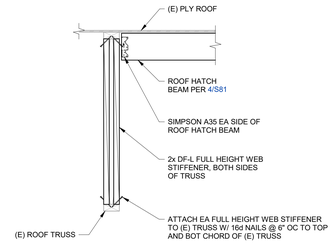
www.kpff.com

SHEET TITLE
EXISTING CMU WALL OPENING

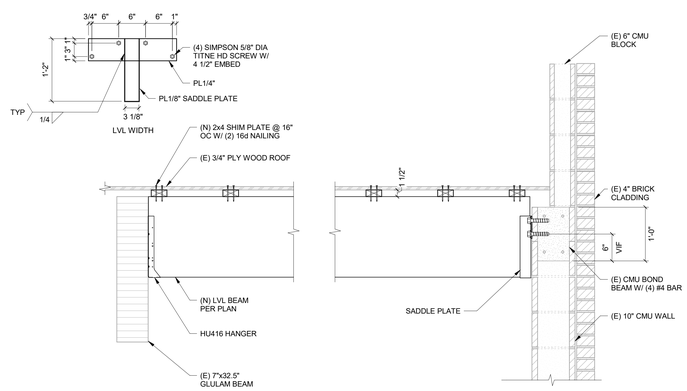
SHEET
S80

ORIGINAL SHEET SIZE
36" x 48"

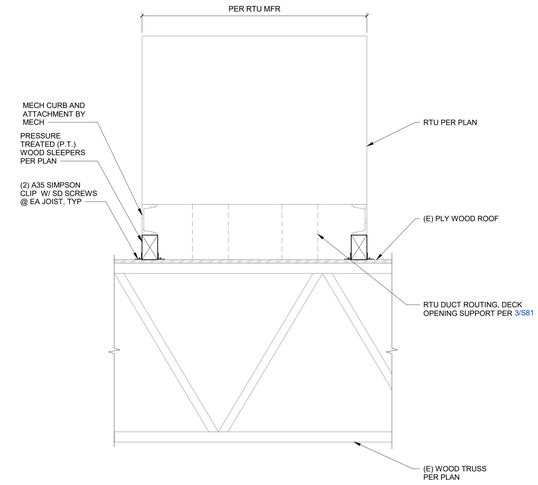
4/12/2023 5:14:27 PM



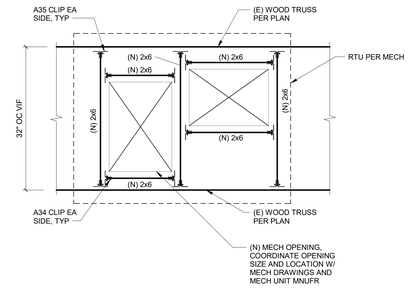
5 S81 FULL HEIGHT STIFFENER AT (E) TRUSS
1" = 1'-0"



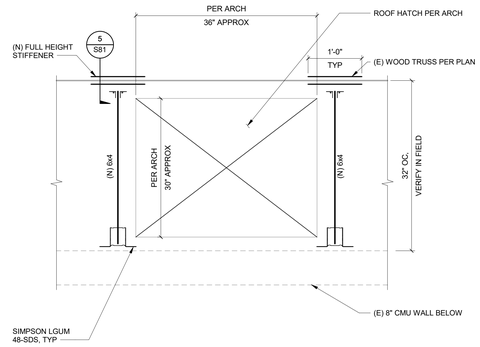
1 S81 NEW LVL BEAM
1" = 1'-0"



2 S81 MECHANICAL WOOD SLEEPER
1" = 1'-0"



3 S81 MECHANICAL OPENINGS
1" = 1'-0"



4 S81 NEW ROOF HATCH
1" = 1'-0"

4/12/2023 5:14:27 PM

PROFESSIONAL ENGINEER REGISTERED 12033 STATE OF IDAHO ANDREW M. WILLIAMS

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SHEET TITLE
STRUCTURAL RETROFIT DETAILS

SHEET
S81

ORIGINAL SHEET SIZE
36" x 48"