

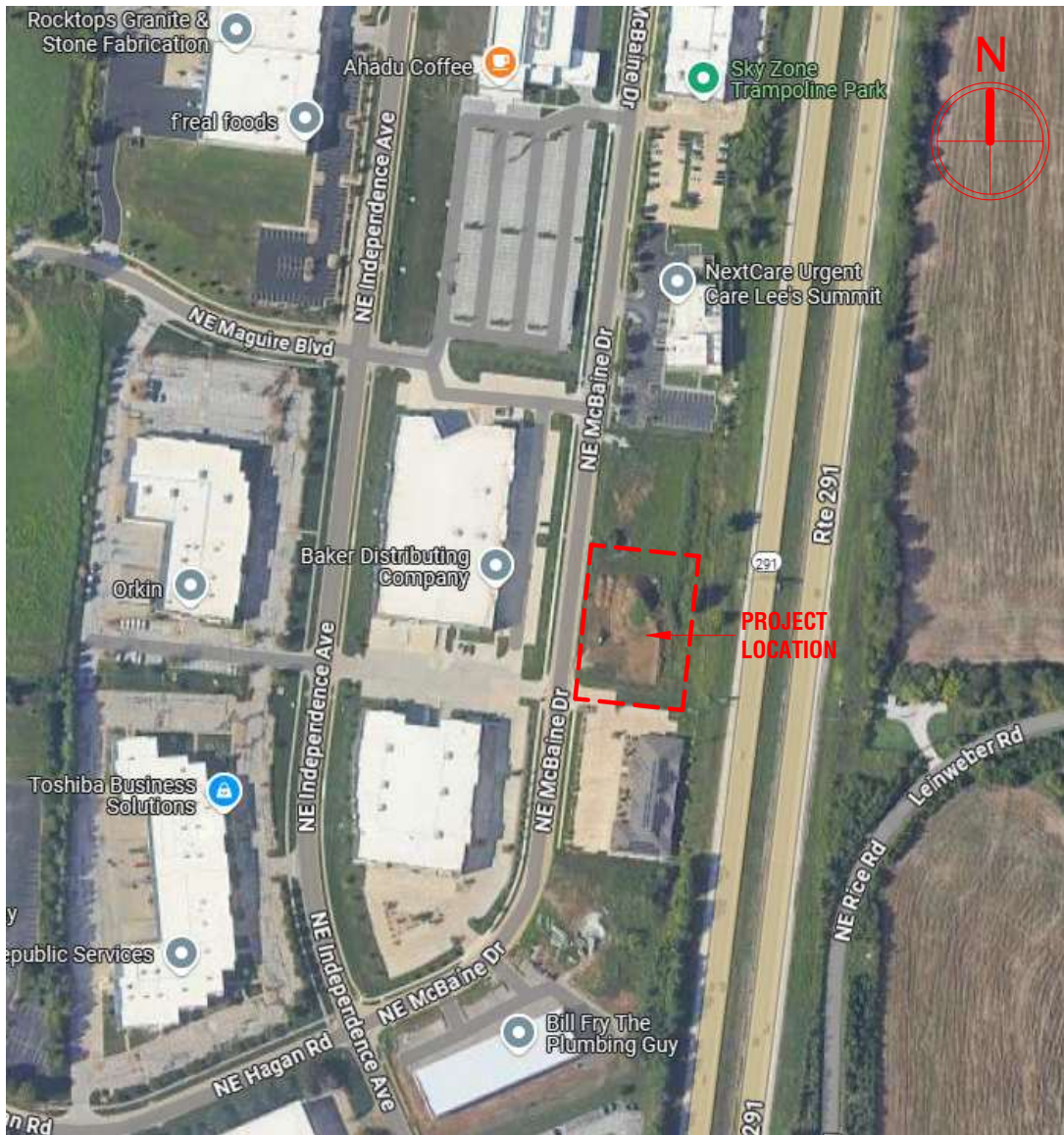
ASSOCIATED PLASTIC SURGEONS

I-470 BUSINESS & TECHNOLOGY CENTER

NE McBAIN DRIVE

LEE'S SUMMIT, MISSOURI

BUILDING SHELL PERMIT SUBMITTAL: JANUARY 28, 2025



SEAL:



01/28/2025

ARCHITECT
DEV INC
8807 MONROVIA STREET
LENEXA, KANSAS 66215
PH: 913-322-8882

STRUCTURAL ENGINEER
STAND STRUCTURAL ENGINEERING INC
8234 ROBINSON STREET
OVERLAND PARK, KANSAS 66204
PH: 913-214-2169

MEP ENGINEER
ARCHITECTURAL ENGINEERING CONSORTIUM, INC
10511 AUGUSTA DRIVE
KANSAS CITY, KANSAS 66109
PH: 816-916-4675

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12		
Grand total: 49		



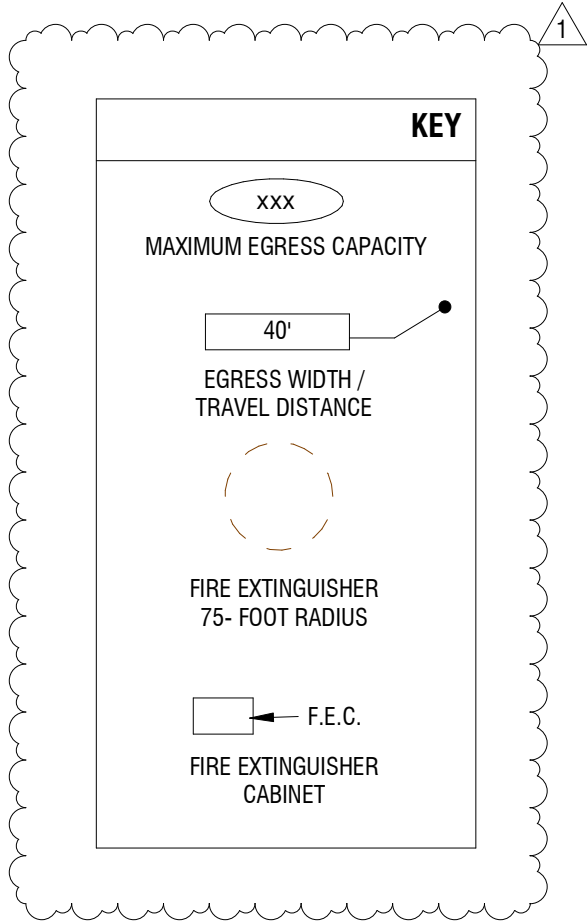
CODE INFORMATION

OCCUPANCY USE GROUP: B
TYPE OF CONSTRUCTION: V-B

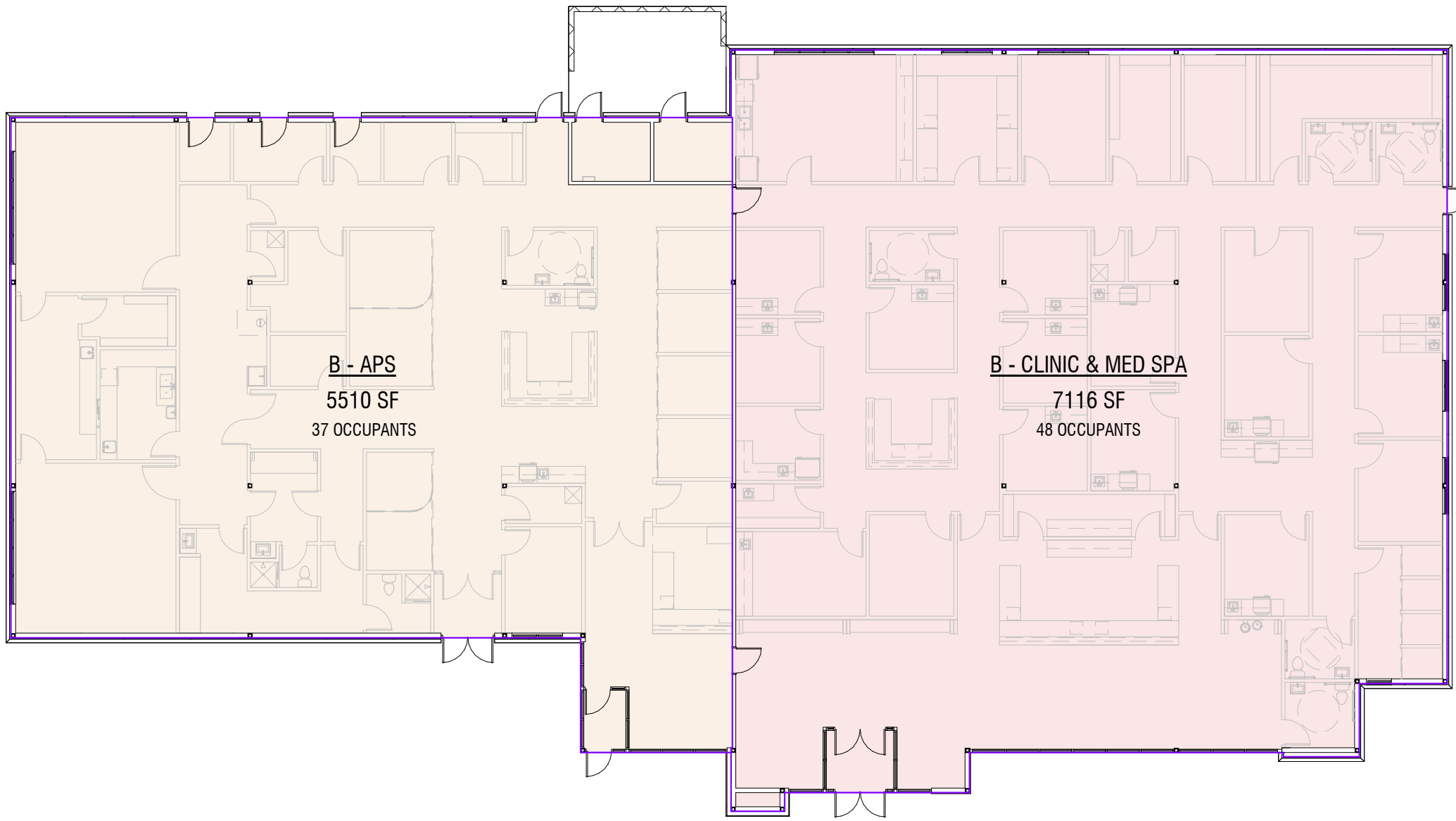
	REQUIRED/ALLOWED	PROVIDED
SQUARE FOOTAGE		
PER STORY (IBC 506.2)	36,000 SQ.FT.	12,626 SQ.FT.
TOTAL BUILDING AREA	N/A	12,626 SQ.FT.
NUMBER OF STORY (IBC 504.4)	3 STORIES	1 STORY
BUILDING HEIGHT (IBC 504.3)	60 FT.	29 FT.
BUILDING ELEMENT FIRE RESISTANCE RATING		
PRIMARY STRUCTURAL FRAME	0 HR	0 HR
BEARING WALL - EXTERIOR	0 HR	0 HR
BEARING WALL - INTERIOR	0 HR	0 HR
NONBEARING WALL AND PARTITIONS - EXTERIOR (IBC 602)	0 HR (10<X<30; X >30)	0 HR
NONBEARING WALL AND PARTITIONS - INTERIOR	0	0
FLOOR CONSTRUCTION	0 HR	0 HR
ROOF CONSTRUCTION	0 HR	0 HR
FIRE PROTECTION AND RESISTANCE REQUIREMENTS		
FIRE BARRIERS - STAIR ENCLOSURES	N/A	N/A
FIRE PARTITIONS - DEMISING WALL	1HR	1HR
FIRE PARTITIONS - HOR. ASSEMBLIES	N/A	N/A
FIRE PARTITIONS - CORRIDOR WALLS	N/A	N/A
FIRE PROTECTION SYSTEM	NFPA 13	NFPA 13
FIRE ALARM AND DETECTION (IBC 907)	FIRE & SMOKE ALARM	FIRE & SMOKE ALARM
EGRESS		
OCCUPANT LOAD	TYPE	SF/LOAD FACTOR
	ASC (BUSINESS)	5,510/150
	CLINIC & MED SPA (BUSINESS)	7,116/150
	TOTAL	85
EGRESS WIDTH - STAIRS (IBC 1005.3)	N/A	N/A
EGRESS WIDTH - OTHER (IBC 1005.3)	85 x 0.15" = 12.75" MIN.	238"
NUMBER OF EXITS - ASC	1	3
NUMBER OF EXITS - CLINIC & MED SPA	1	2
MAX. TRAVEL DISTANCE TO EXIT	250' MAX. (PER IBC 1016.2)	124'
ROOF COVER CLASSIFICATION	B	B

APPLICABLE BUILDING CODES

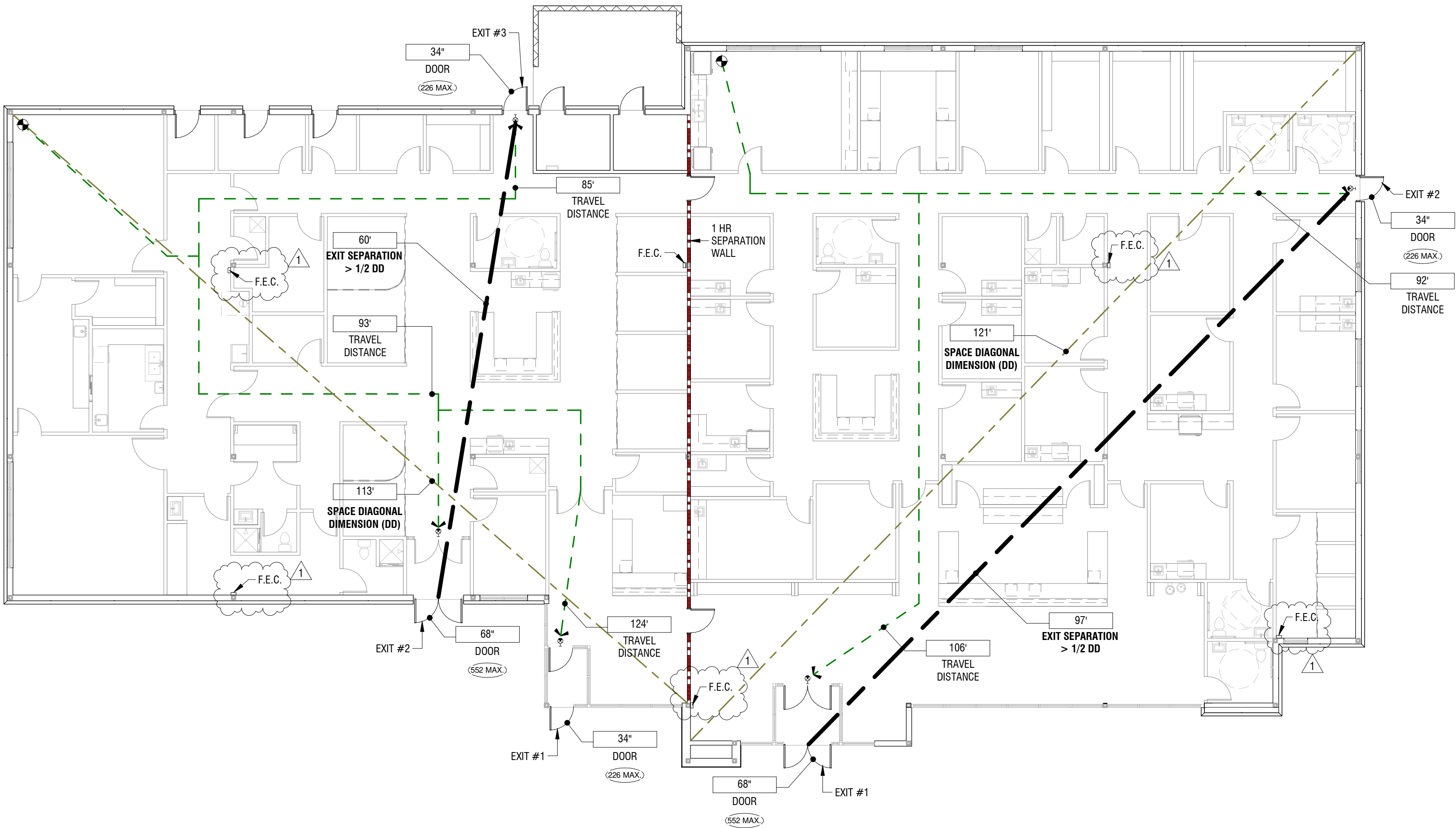
- 2018 INTERNATIONAL BUILDING CODE
- 2018 INTERNATIONAL PLUMBING CODE
- 2018 INTERNATIONAL MECHANICAL CODE
- 2018 INTERNATIONAL FUEL GAS CODE
- 2018 INTERNATIONAL FIRE CODE
- 2017 NATIONAL ELECTRICAL CODE
- ANSI A117-1-2009 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES



- B - APS
- B - CLINIC & MED SPA



1 OCCUPANT LOAD PLAN
1/16" = 1'-0"



2 LIFE SAFETY PLAN
3/32" = 1'-0"



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A NEW BUILDING FOR:

ASSOCIATED PLASTIC SURGEONS

I-470 BUSINESS & TECHNOLOGY CENTER
NE McBAIN DRIVE
LEE'S SUMMIT, MISSOURI



03/07/2025

PROJECT NO. 231206

DRAWING ISSUANCE: JAN 28, 2025

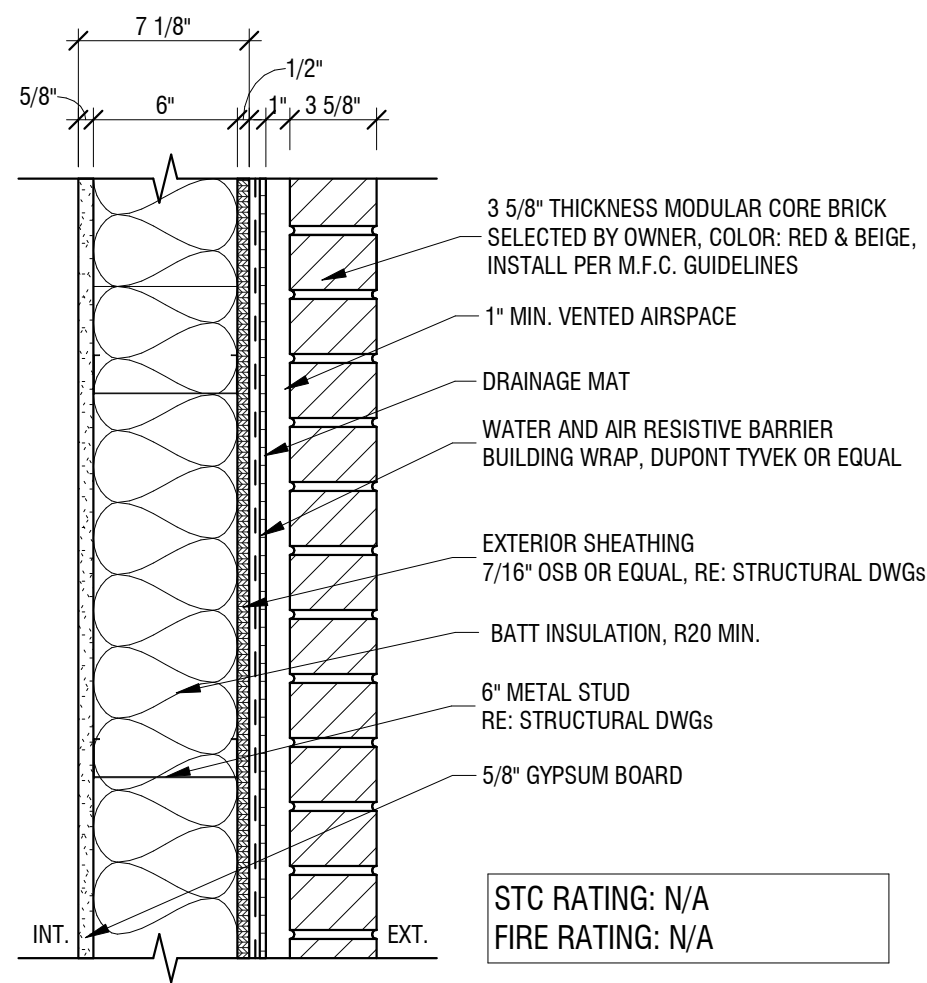
NO.	REVISION	DATE
1	Rev 01	03/07/2025

SHEET NUMBER

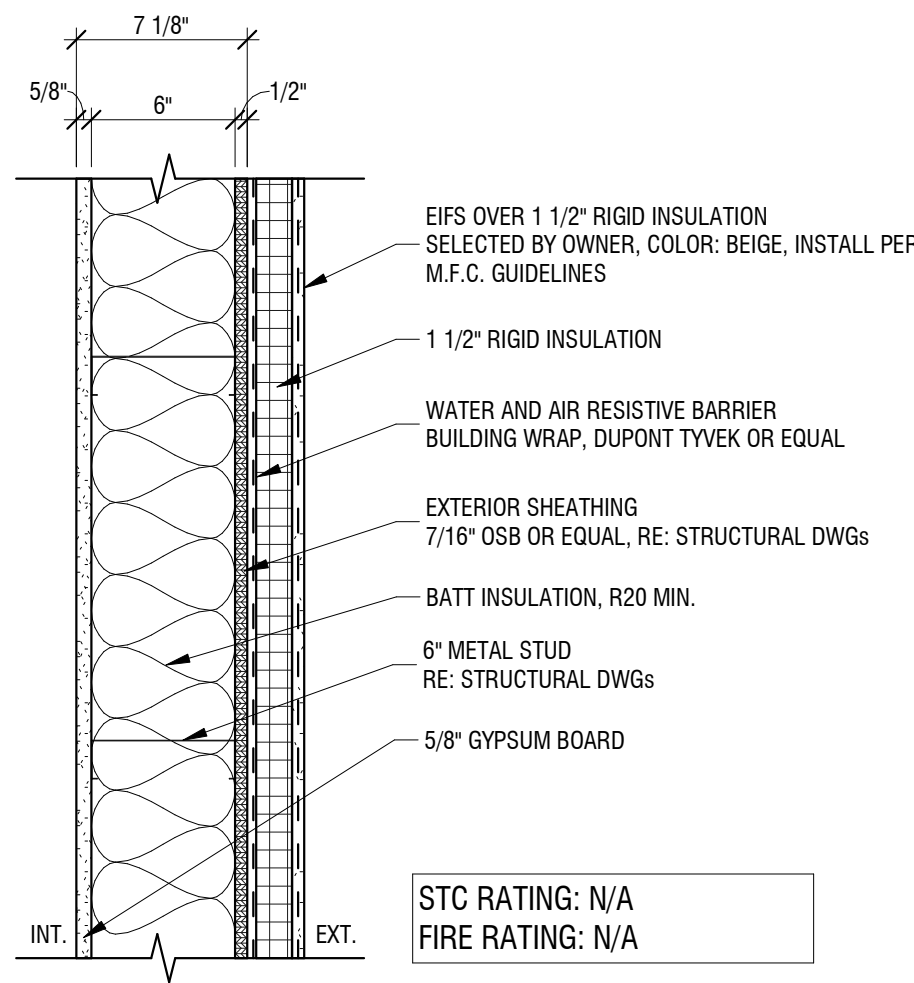
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PROJECT INFORMATION

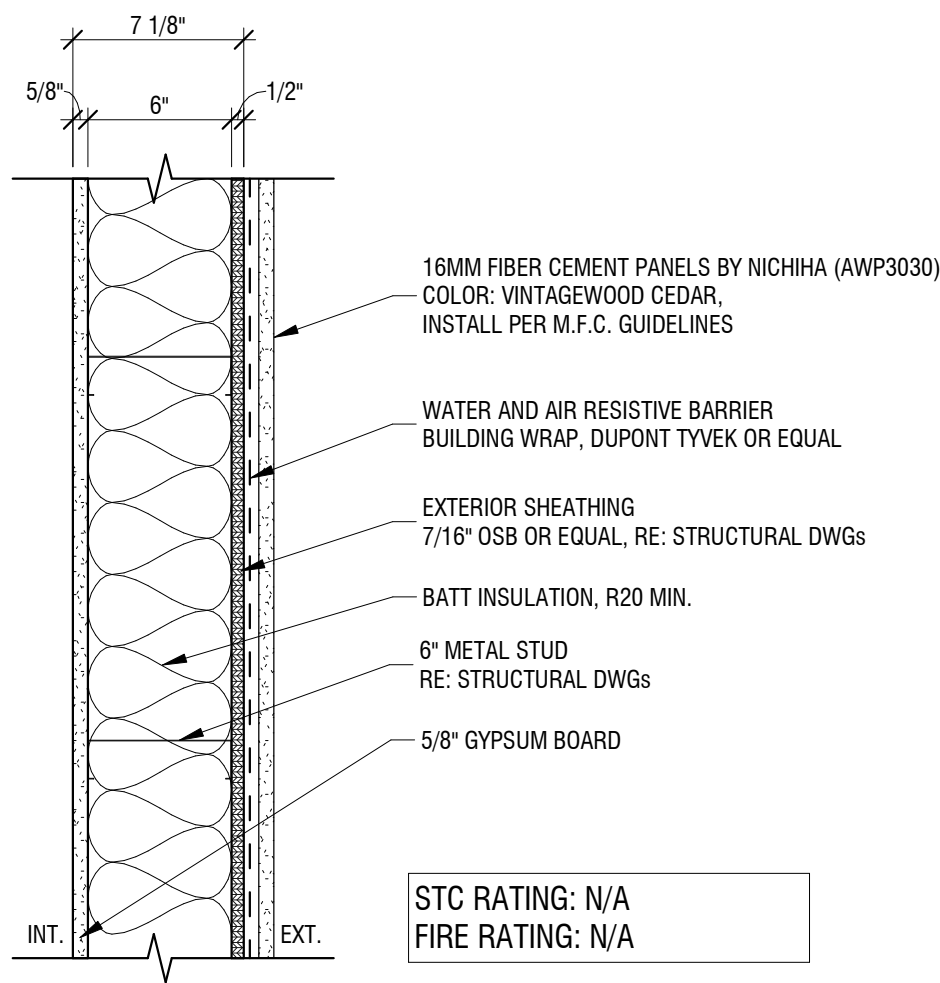
WALL TYPES:



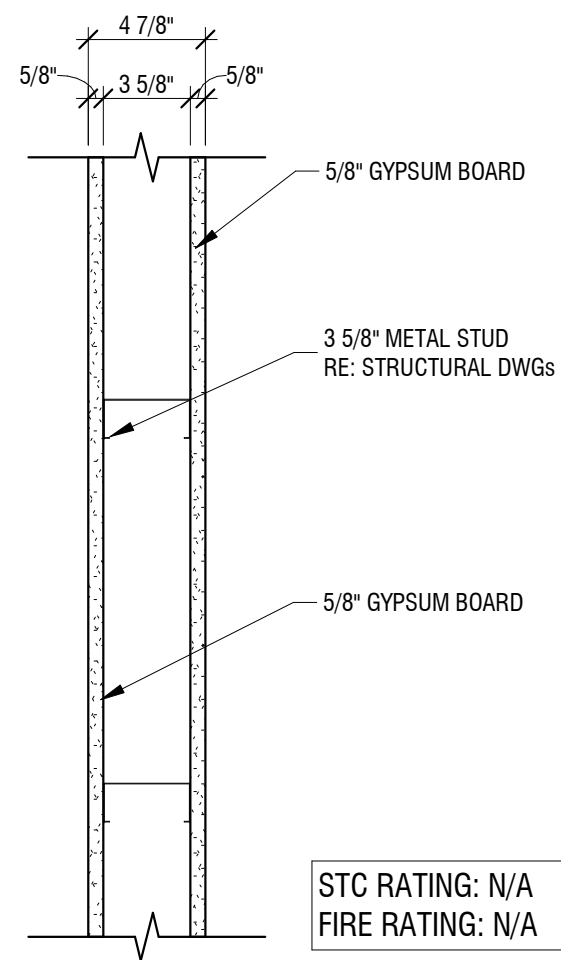
1 WALL TYPE '1A' -EXTERIOR WALL-BRICK
1 1/2" = 1'-0"



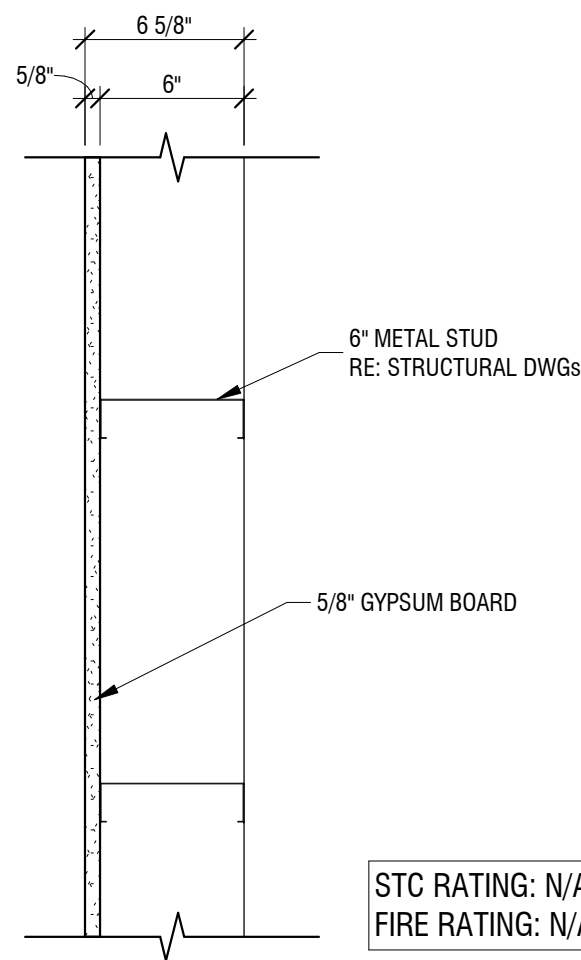
2 WALL TYPE '1B' -EXTERIOR WALL-EIFS
1 1/2" = 1'-0"



3 WALL TYPE '1C' -EXTERIOR WALL-FIBER CEMENT PANEL
1 1/2" = 1'-0"



4 WALL TYPE '2' -TYP. PARTITION WALL
1 1/2" = 1'-0"



5 WALL TYPE '3' -6" STUD WALL-1 SIDE FINISH
1 1/2" = 1'-0"



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NE McBAIN DRIVE
LEE'S SUMMIT, MISSOURI



01/28/2025

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SHEET NUMBER

A0.1

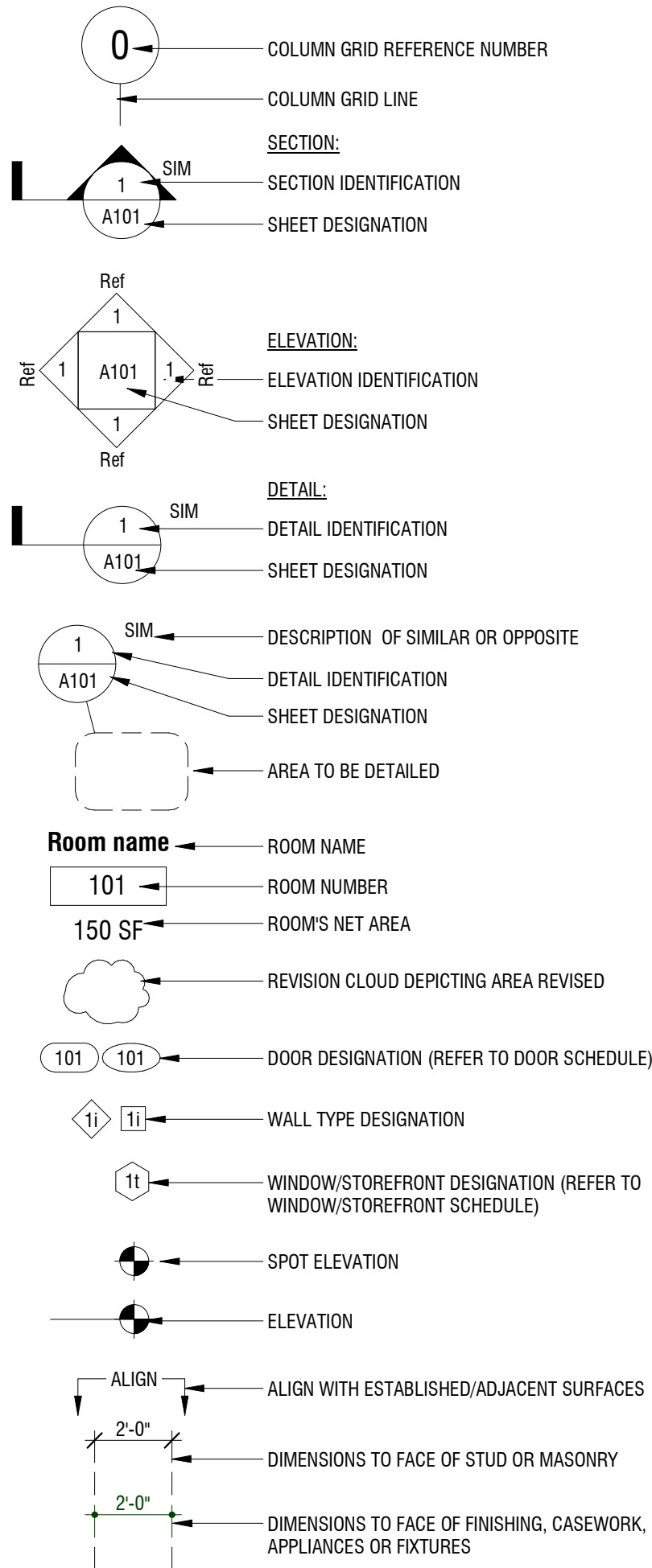
WALL TYPES

ABBREVIATIONS

A		
&	ACCESS	AND
ACOUS	ACOUSTIC(AL)	ACCESSORY
AFF	AL/ALUM	ABOVE FINISHED FLOOR
ALT	ANNUNC	ALUMINUM
ANOD	APPL	ALTERNATE
ARCH	AUTO	ANNUNCIATOR
AVG		ANODIZED
		APPLIANCE
		ARCHITECT(URAL)
		AUTOMATIC
		AVERAGE
B		
BD	BLDG	BOARD
BLKG	BOLLD	BUILDING
BOLLD	BTHRM	BLOCKING
BTHRM	BU	BOLLARD
BU	BSP	BROADLOOM
		BATHROOM
		BUILT UP
		BACKSPLASH
C		
CEM	CER	CEMENT(ITIOUS)
CIP	CLG	CERAMIC
CLG	CLO	CAST-IN-PLACE
CLO	CMU	CEILING
CMU	COATG	CLOSET
COATG	COILG	CONCRETE MASONRY UNIT
COILG	CONC	COATING
CONC	CONSTR	COILING
CONSTR	CONT	CONCRETE
CONT	CONTR	CONSTRUCTION
CONTR	COV	CONTINUOUS(ATION)
COV	CPT	CONTRACT(OR)
CPT	CTT	COVER
		CARPET
		CARPET TILE
		COUNTER TOP
D		
DBL	DEPT	DOUBLE
DEPT	DES	DEPARTMENT
DES	DET	DESIGN(ED)
DET	DF	DETAIL
DF	DIA	DRINKING FOUNTAIN
DIA	DIFF	DIAMETER
DIFF	DIM	DIFFUSER
DIM	DISP	DIMENSION
DISP	DIV	DISPENSER
DIV	DN	DIVISION
DN	DR	DOWN
DR	DSCON	DOOR
DSCON	DWG	DISCONNECT
DWG		DRAWER
E		
ELAST	ELEC	ELASTOMERIC
ELEC	EMBED	ELECTRICAL
EMBED	ENGR	EMBEDD(ED)(ING)
ENGR	ENR	ENGINEER(ED)
ENR	EQ	ENTRANCE
EQ	EQUIP	EQUAL
EQUIP	EXIST	EQUIPMENT
EXIST	EXP JT	EXISTING
EXP JT	EXPS	EXPANSION JOINT
EXPS	EXT	EXPOSED(D)
EXT		EXTERIOR
F		
FAB	FD	FABRICATION
FD	FE	FLOOR DRAIN
FE	FE&C	FIRE EXTINGUISHER
FE&C	FHC	FIRE EXTINGUISHER AND CABINET
FHC	FIN	FIRE HOSE AND CABINET
FIN	FLDG	FINISH
FLDG	FLR	FOLDING
FLR	FPLC	FLOOR(ING)
FPLC	FR	FIREPLACE
FR	FRMG	FIRE RAT(ING)(ED)
FRMG	FURN	FRAMING
FURN	FWC	FURNITURE
FWC	FXD	FABRIC WALL COVERING
FXD	FXTR	FIXED
FXTR		FIXTURE
G		
GA	GFRG	GAUGE
GFRG	GFRG	GLASS FIBER REINFORCED CONCRETE
GFRP	GL	GLASS FIBER REINFORCED GYPSUM
GL	GR	GLASS FIBER REINFORCED PLASTER
GR	GYP	GLASS
GYP		GRAD(E)(ING)
		GYPSUM
H		
HD	HDWD	HEAD
HDWD	HDWE	HARDWOOD
HDWE	HM	HARDWARE
HM	HORIZ	HOLLOW METAL
HORIZ	HP	HORIZONTAL
HP	HVAC	HIGH POINT
HVAC		HEATING, VENTILATING, AND AIR CONDITIONING
I		
INFILTR	INFO	INFILTRATION
INFO	INSTRUM	INFORMATION
INSTRUM	INSUL	INSTRUMENT(ATION)
INSUL	INT	INSULATION
INT	INTLK	INTERIOR
INTLK		INTERLOCK(ING)
J		
JAN		JANITOR

K		
KIT		KITCHEN
L		
LAV	LP	LAVATORY
LP	LT	LOW POINT
LT	LVLG	LIGHT
LVLG	LVT	LEVELING
LVT		LUXURY VINYL TILE
M		
MAX	MECH	MAXIMUM
MECH	MEMB	MECHANICAL
MEMB	MTL	MEMBRANE
MTL	MEZZ	METAL
MEZZ	MFD	MEZZANINE
MFD	MFR	MANUFACTURED
MFR	MIN	MANUFACTURER
MIN	MISC	MINIMUM
MISC	MLWK	MISCELLANEOUS
MLWK	MOIST	MILLWORK
MOIST	MOT	MOISTURE
MOT	MTD	MOTOR(IZED)
MTD		MOUNTED
N		
NIC	NO	NOT IN CONTRACT
NO	NTS	NUMBER
NTS		NOT TO SCALE
O		
OH	OPNG	OPPOSITE HAND
OPNG	OPP	OPENING(S)
OPP	OPR	OPPOSITE
OPR	ORD	OPERABLE
ORD	ORNA	OVERFLOW ROOF DRAIN
ORNA	OVFL	ORNAMENTAL
OVFL	OH	OVERFLOW
OH		OVERHEAD
P		
P-LAM	PBD	PLASTIC LAMINATE
PBD	PEDR	PARTICLE BOARD
PEDR	PLAS	PEDESTRIAN
PLAS	PLSTC	PLASTER
PLSTC	PLYWD	PLASTIC
PLYWD	PNL	PLYWOOD
PNL	POLYST	PANEL
POLYST	PORT	POLYSTRENE
PORT	PREFAB	PORTABLE
PREFAB	PREFIN	PREFABRICATED
PREFIN	PRTECN	PREFINISHED
PRTECN	PTN	PROTECTION
PTN	PT	PARTITION
PT		PAINT
R		
RD	RDL	ROOF DRAIN
RDL	RDR	ROOF DRAIN LEADER
RDR	RECES	READER
RECES	RECPT	RECESSED
RECPT	REF	RECEPTACLE
REF	REFL	REFER(ENCE)
REFL	REFR	REFLECTED
REFR	REINF	REFRIGERATOR
REINF	REDD	REINFORCED(D)(ING)(MENT)
REDD	RESIL	REQUIRED
RESIL	RESIS	RESILIENT
RESIS	RFG	RESIST(ANT)(IVE)
RFG	RM	ROOFING
RM	RO	ROOM
RO		ROUGH OPENING
S		
SCR	SECUR	SCRIBE
SECUR	SF/SQ.FT.	SECURITY
SF/SQ.FT.	SG	SQUARE FEET
SG	SHORG	SINGLE
SHORG	SHWR	SHORING
SHWR	SIM	SHOWER
SIM	SST	SIMILAR
SST	STD	STAINLESS STEEL
STD	STL	STANDARD
STL	STRFR	STEEL
STRFR	STRUCT	STOREFRONT
STRUCT	SURF	STRUCTURAL
SURF	SUSP	SURFACE
SUSP	SYS	SUSPENDED
SYS		SYSTEM(S)
T		
T&G	THK	TOUNGE AND GROOVE
THK	TLT	THICK
TLT	TRAF	TOILET
TRAF	TRANS	TRAFFIC
TRANS	TRTD	TRANSPARENT
TRTD	TYP	TREATED
TYP	TL	TYPICAL
TL	TLB	CERAMIC/PORCELAIN TILE
TLB		TILE BASE
U		
UNDRLAY	UNO	UNDERLAYMENT
UNO	UTIL	UNLESS NOTED OTHERWISE
UTIL		UTILITY
V		
VEH	VERT	VECHICLE
VERT	VIF	VERTICAL
VIF		VERIFY IN FIELD
W		
W/	WC	WITH
W/O	WD	WITHOUT
WC	WDB	WATER CLOSET
WD	WDW	WOOD
WDB	WT	WOOD BASE
WDW		WINDOW
WT		WEIGHT

DRAWING INDICATION



SECTION INDICATIONS

SYMBOL	DESCRIPTION
	ACOUSTICAL CEILING TILE
	ALUMINUM
	BRICK
	CARPET
	CONCRETE
	CONCRETE MASONRY UNIT
	EARTH
	FABRIC WRAPPED PANEL
	GLASS
	GRAVEL
	GYPSUM CEILING (PAINTED)
	INSULATION (LOOSE OR BATT)
	INSULATION (RIGID)
	METAL
	PLASTIC
	PLYWOOD
	SAND OR GROUT
	STONE
	WOOD (FINISHED)
	WOOD (CONTINUOUS MEMBER)
	WOOD (INTERRUPTED MEMBER)



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I-470 BUSINESS & TECHNOLOGY CENTER
NE McBAIN DRIVE
LEE'S SUMMIT, MISSOURI



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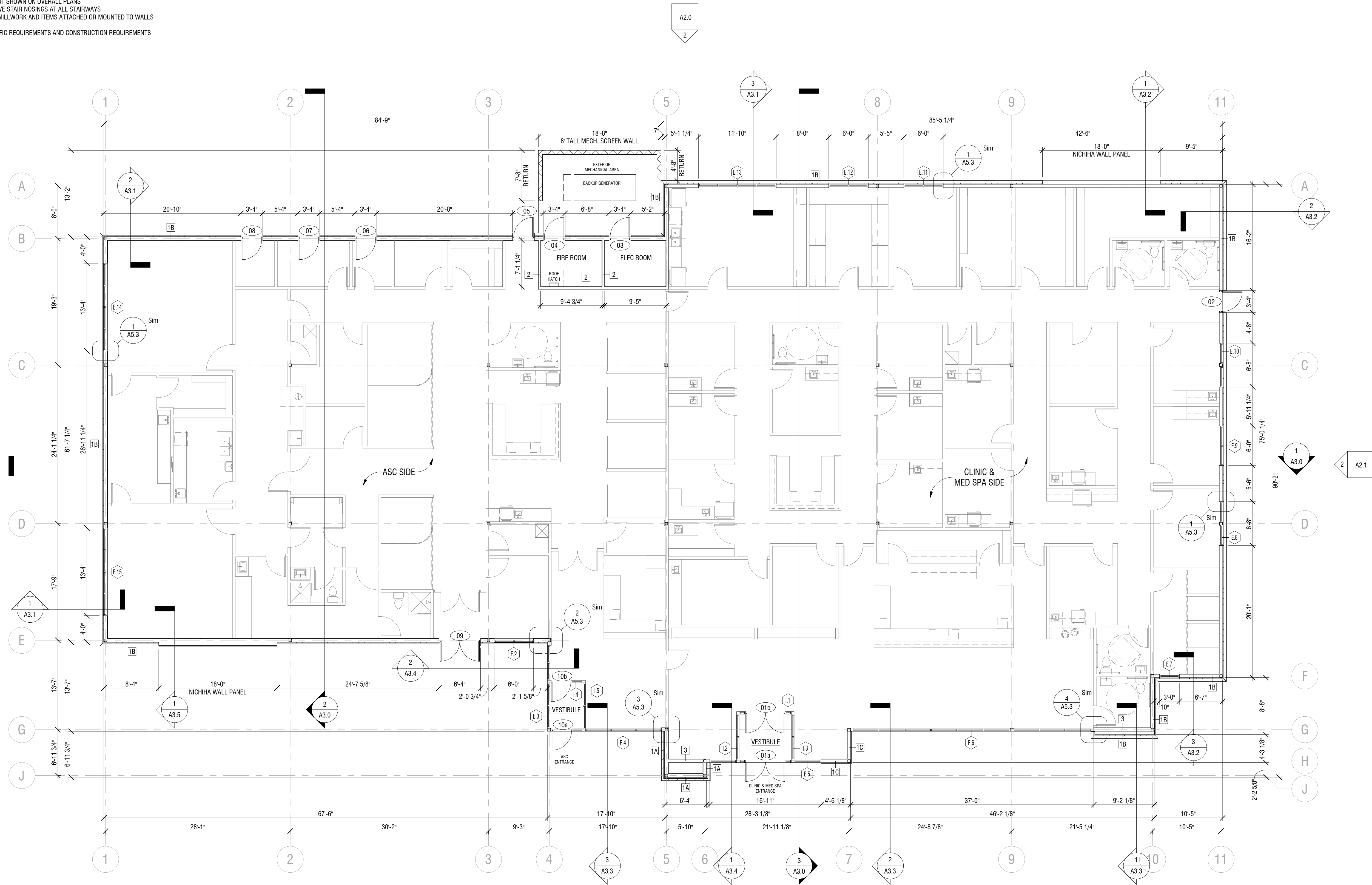
SHEET NUMBER

A0.2

ABBREVIATIONS & INDICATIONS

GENERAL NOTES

1. ALL PLAN DIMENSIONS GIVEN ARE TO FACE OF STUD OR MASONRY, U.N.O.
2. SEE ENLARGED A4 SHEETS FOR ALL WALL TAGS NOT SHOWN ON OVERALL PLANS. REFER TO CALLOUT FOR SPECIFIC PLAN ENLARGEMENT
3. SEE ELEVATIONS FOR ALL WINDOW TAGS NOT SHOWN ON OVERALL PLANS
4. MAINTAIN MIN CEILING HEIGHT OF 6'-8" ABOVE STAIR NOSINGS AT ALL STAIRWAYS
5. COORDINATE AND PROVIDE BLOCKING FOR MILLWORK AND ITEMS ATTACHED OR MOUNTED TO WALLS AND CEILINGS
6. REFER TO SPECIFICATIONS BOOK FOR SPECIFIC REQUIREMENTS AND CONSTRUCTION REQUIREMENTS

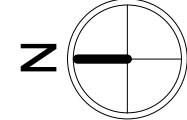


WALL TYPES

COLD-FORMED STEEL FRAMING

- 1A- EXTERIOR WALL - 6" METAL STUD - BRICK
SEE DETAIL 1/A0.1
- 1B- EXTERIOR WALL - 6" METAL STUD - EIFS
SEE DETAIL 2/A0.1
- 1C- EXTERIOR WALL - 6" METAL STUD - FIBER CEMENT PANEL
SEE DETAIL 3/A0.1
- 2- INTERIOR WALL - 3 5/8" METAL STUD - TYPICAL
SEE DETAIL 4/A0.1
- 3- INTERIOR WALL - 6" METAL STUD - 1 SIDE FINISH
SEE DETAIL 5/A0.1

1 FLOOR PLAN
1/8" = 1'-0"



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LEE'S SUMMIT, MISSOURI



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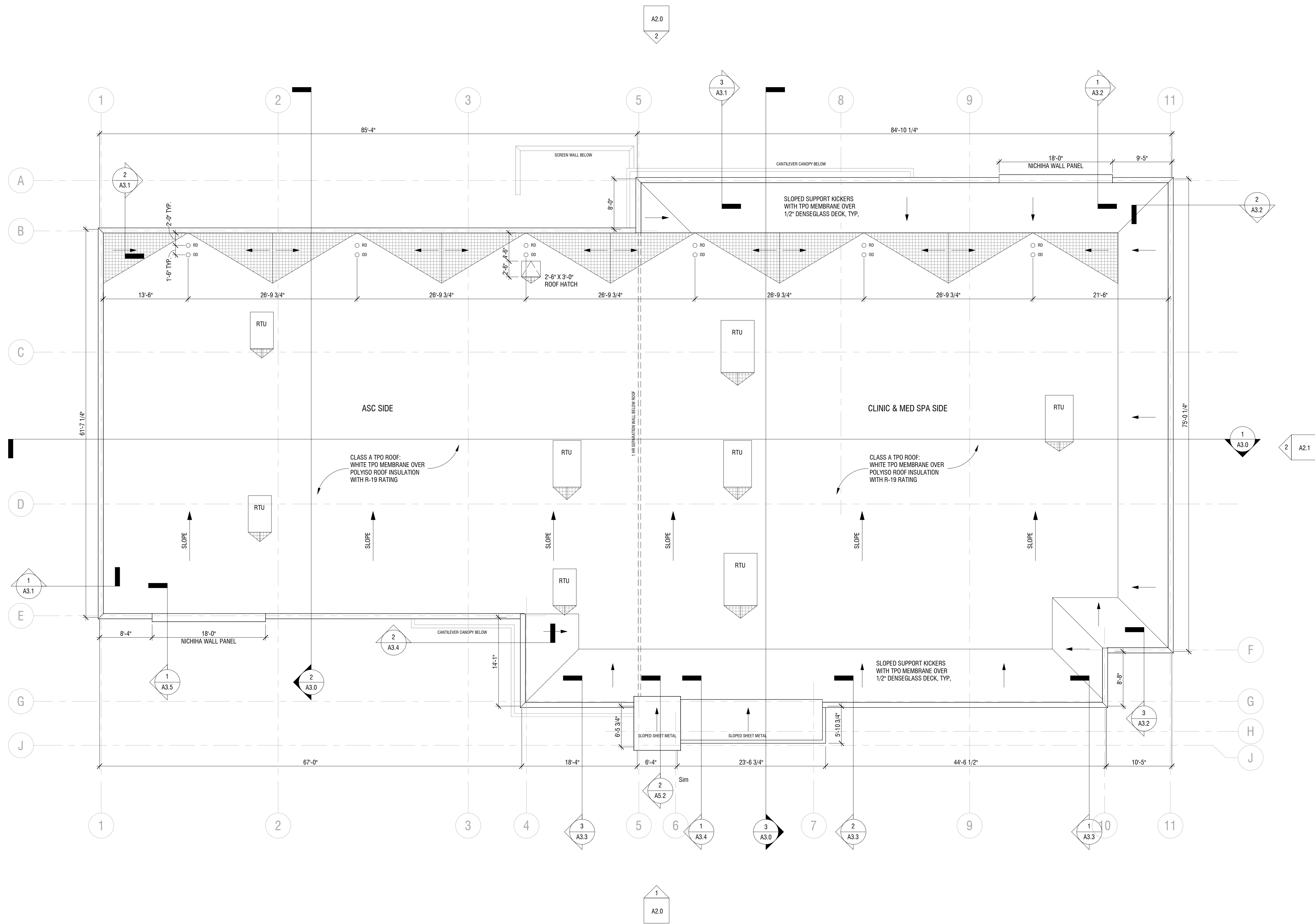
SHEET NUMBER

A1.0

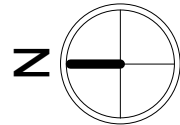
FLOOR PLAN

GENERAL NOTES

1. ALL MECHANICAL EQUIPMENT WILL BE CONCEALED FROM VIEW (FROM THE STREET) BEHIND A PARAPET WALL ON ROOF OF BUILDING



2 ROOF PLAN
1/8" = 1'-0"



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LEE'S SUMMIT, MISSOURI

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01/28/2025

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SHEET NUMBER

A1.1
ROOF PLAN

GENERAL NOTES

1. ALL MECHANICAL EQUIPMENT WILL BE CONCEALED FROM VIEW (FROM THE STREET) BEHIND A PARAPET WALL ON ROOF OF BUILDING
2. ALL COMMERCIAL SIGNAGE WILL BE APPROVED BY SEPARATE APPLICATION AND REPLACE SIGNS SHOWN WILL GENERAL LOCATION WHERE SIGNS WILL BE LOCATED



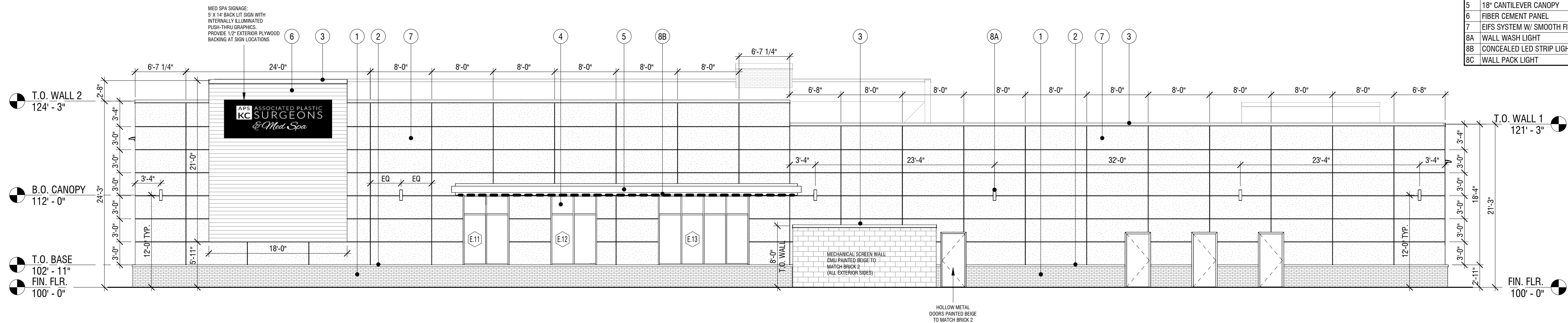
EXTERIOR SCHEDULE

NO.	MATERIAL/ITEMS	DESCRIPTION/MANUFACTURER	COLOR/FINISH
1	BRICK	TO BE SELECTED BY OWNER	COLOR: RED BRICK (RUNNING BOND)
2	BRICK	TO BE SELECTED BY OWNER	COLOR: BEIGE BRICK (ROWLOCK BASE CAP & ACCENT BRICK)
3	PREFINISHED METAL	COPING/CAP FLASHING	COLOR: BLACK
4	ALUMINUM STOREFRONT	W/ 1" INSULATED GLASS	COLOR (FRAME): BLACK
5	PREFINISHED METAL	18" DEEP CANTILEVER CANOPY	COLOR: BLACK
6	FIBER CEMENT PANEL	NICHIHA FIBER CEMENT	COLOR: VINTAGE WOOD CEDAR
7	EIFS SYSTEM	TO BE SELECTED BY OWNER	COLOR: BEIGE WITH SMOOTH FINISH & SCORING PATTERN
8	BUILDING LIGHTING	RE: EXTERIOR LIGHTING SCHEDULE	

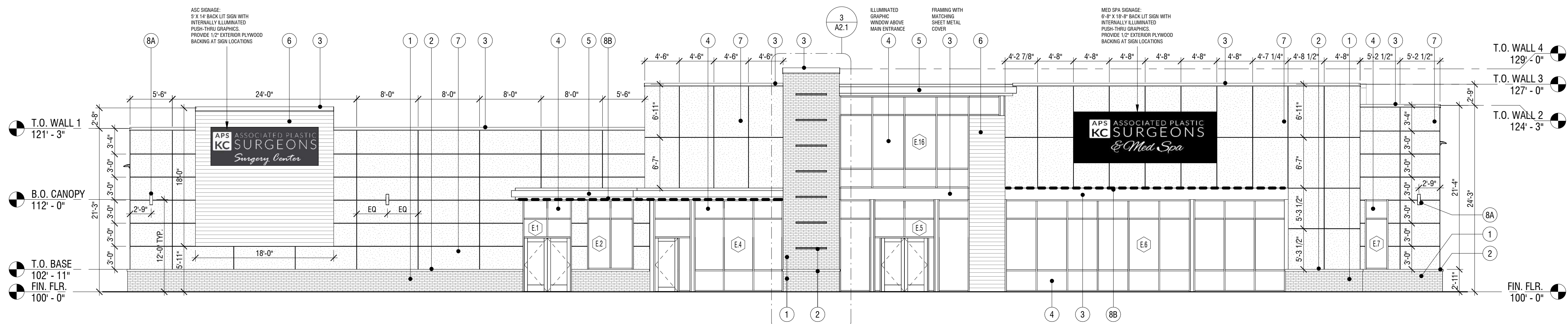
EXTERIOR LIGHTING SCHEDULE

NO.	TYPE	DESCRIPTION/MANUFACTURER	REMARKS
8A	UP/DOWN	LED, BLACK FINISH SYRIOS PRO SQP402 BY LUMINIS OR EQUAL	WALL WASH AT WEST & EAST ELEVATIONS WITH HIGH VISIBILITY
8B	LINEAR	CONTINUOUS BUILT-IN, CONCEALED LED STRIP	HORIZONTAL HIGHLIGHT AT WEST & EAST ELEVATIONS WITH HIGH VISIBILITY
8C	WALL PACK	LED, BLACK FINISH D-SERIES SIZE 1 LED WALL LUMINAIRE DSXW1LED BY LITHONIA OR EQUAL	GENERAL ILLUMINATION AT NORTH & SOUTH ELEVATIONS

ELEVATION KEYNOTES	
NO.	NOTES
1	RED BRICK (RUNNING BOND)
2	BEIGE BRICK (ROWLOCK CAP & ACCENT BRICK)
3	PREFINISHED METAL COPING/CAP
4	ALUMINUM STOREFRONT
5	18" CANTILEVER CANOPY
6	FIBER CEMENT PANEL
7	EIFS SYSTEM W/ SMOOTH FINISH & SCORING PATTERN
8A	WALL WASH LIGHT
8B	CONCEALED LED STRIP LIGHT
8C	WALL PACK LIGHT



2 EAST ELEVATION
1/8" = 1'-0"



1 WEST ELEVATION
1/8" = 1'-0"



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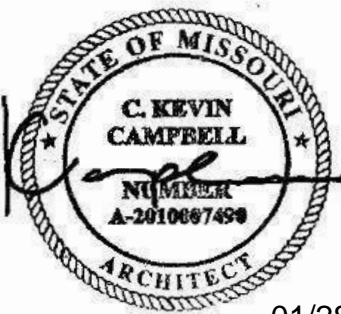
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A NEW BUILDING FOR:

ASSOCIATED PLASTIC SURGEONS

1-470 BUSINESS & TECHNOLOGY CENTER
NE MCBAIN DRIVE
LEE'S SUMMIT, MISSOURI



01/28/2025

PROJECT NO. 231206

DRAWING ISSUANCE: JAN 28, 2025

NO.	REVISION	DATE

SHEET NUMBER

A2.0

BUILDING ELEVATIONS

GENERAL NOTES

1. ALL MECHANICAL EQUIPMENT WILL BE CONCEALED FROM VIEW (FROM THE STREET) BEHIND A PARAPET WALL ON ROOF OF BUILDING
2. ALL COMMERCIAL SIGNAGE WILL BE APPROVED BY SEPARATE APPLICATION AND REPLACE SIGNS SHOWN WILL GENERAL LOCATION WHERE SIGNS WILL BE LOCATED



EXTERIOR SCHEDULE

NO.	MATERIAL/ITEMS	DESCRIPTION/MANUFACTURER	COLOR/FINISH
1	BRICK	TO BE SELECTED BY OWNER	COLOR: RED BRICK (RUNNING BOND)
2	BRICK	TO BE SELECTED BY OWNER	COLOR: BEIGE BRICK (ROWLOCK BASE CAP & ACCENT BRICK)
3	PREFINISHED METAL	COPING/CAP FLASHING	COLOR: BLACK
4	ALUMINUM STOREFRONT	W/ 1" INSULATED GLASS	COLOR (FRAME): BLACK
5	PREFINISHED METAL	18" DEEP CANTILEVER CANOPY	COLOR: BLACK
6	FIBER CEMENT PANEL	NICHIHA FIBER CEMENT	COLOR: VINTAGE WOOD CEDAR
7	EIFS SYSTEM	TO BE SELECTED BY OWNER	COLOR: BEIGE WITH SMOOTH FINISH & SCORING PATTERN
8	BUILDING LIGHTING	RE: EXTERIOR LIGHTING SCHEDULE	

EXTERIOR LIGHTING SCHEDULE

NO.	TYPE	DESCRIPTION/MANUFACTURER	REMARKS
8A	UP/DOWN	LED, BLACK FINISH SYRIOS PRO SQP402 BY LUMINIS OR EQUAL	WALL WASH AT WEST & EAST ELEVATIONS WITH HIGH VISIBILITY
8B	LINEAR	CONTINUOUS BUILT-IN, CONCEALED LED STRIP	HORIZONTAL HIGHLIGHT AT WEST & EAST ELEVATIONS WITH HIGH VISIBILITY
8C	WALL PACK	LED, BLACK FINISH D-SERIES SIZE 1 LED WALL LUMINAIRE DSXW1LED BY LITHONIA OR EQUAL	GENERAL ILLUMINATION AT NORTH & SOUTH ELEVATIONS

ELEVATION KEYNOTES

NO.	NOTES
1	RED BRICK (RUNNING BOND)
2	BEIGE BRICK (ROWLOCK CAP & ACCENT BRICK)
3	PREFINISHED METAL COPING/CAP
4	ALUMINUM STOREFRONT
5	18" CANTILEVER CANOPY
6	FIBER CEMENT PANEL
7	EIFS SYSTEM W/ SMOOTH FINISH & SCORING PATTERN
8A	WALL WASH LIGHT
8B	CONCEALED LED STRIP LIGHT
8C	WALL PACK LIGHT



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A NEW BUILDING FOR:

ASSOCIATED PLASTIC SURGEONS

I-470 BUSINESS & TECHNOLOGY CENTER
NE McBAIN DRIVE
LEE'S SUMMIT, MISSOURI



01/28/2025

PROJECT NO. 231206

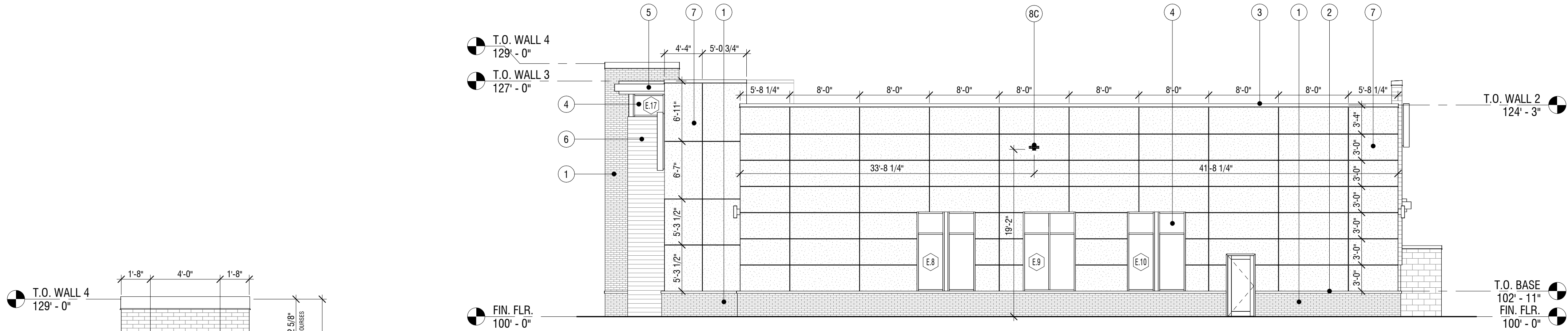
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NO.	REVISION	DATE

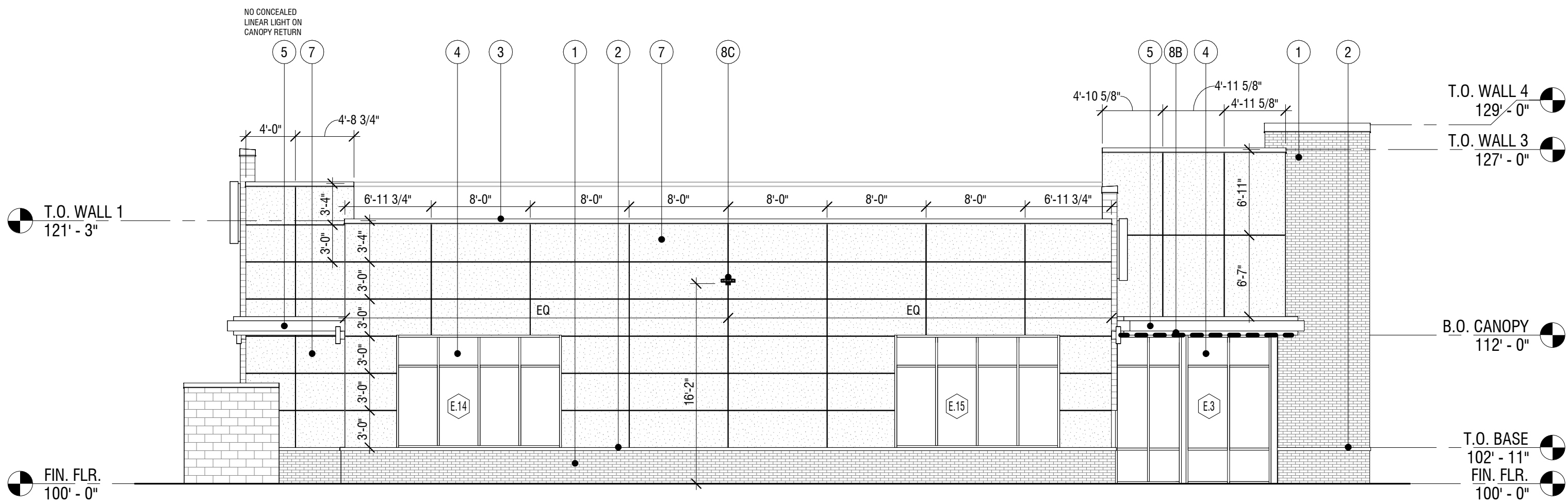
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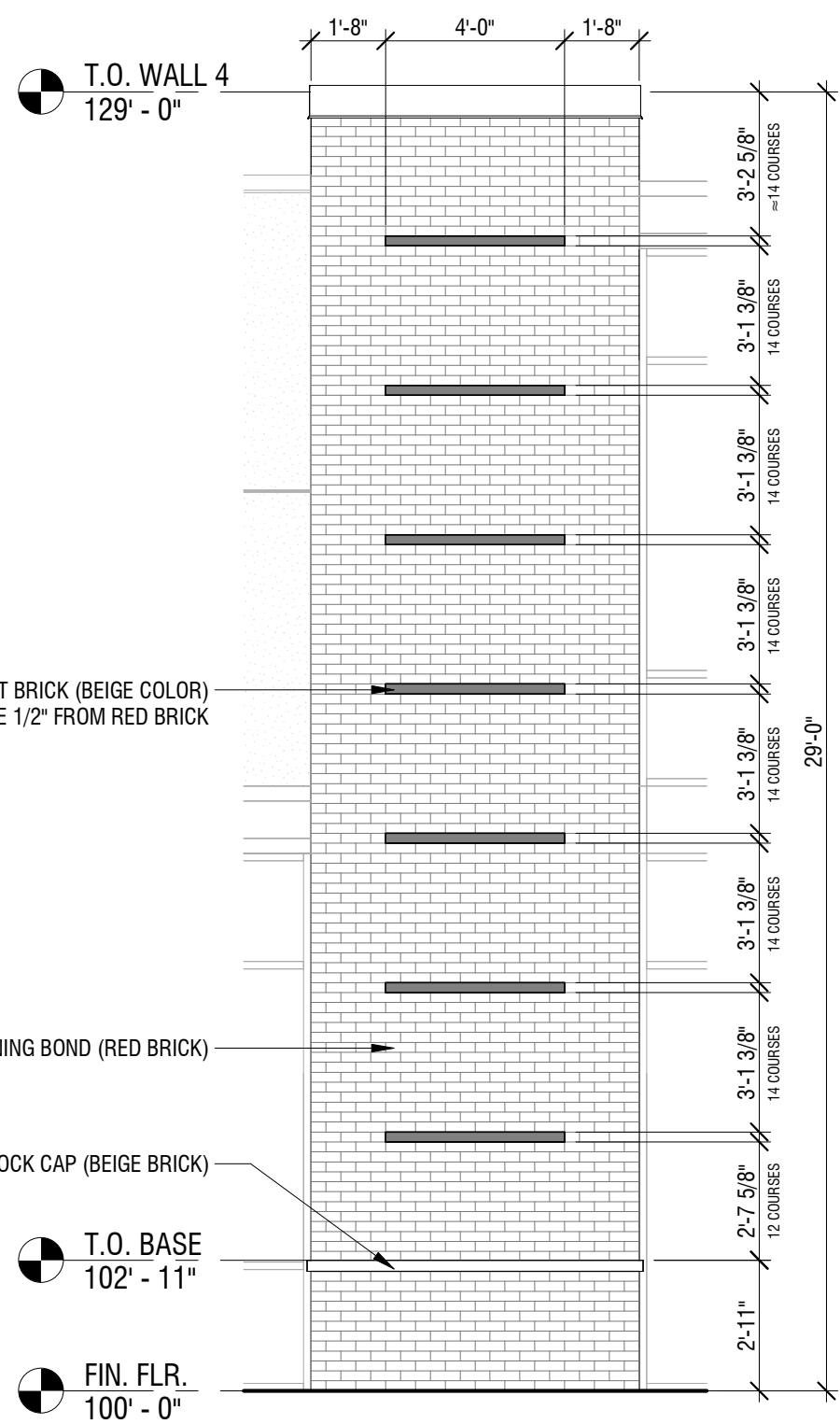
BUILDING ELEVATIONS



2 SOUTH ELEVATION
1/8" = 1'-0"



1 NORTH ELEVATION
1/8" = 1'-0"



3 ENLARGED ELEVATION - BRICK PIER
1/4" = 1'-0"



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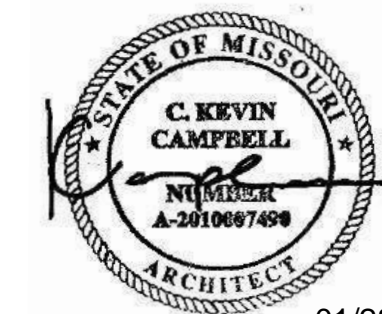
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ASSOCIATED PLASTIC SURGEONS

I-470 BUSINESS & TECHNOLOGY CENTER
NE McBAIN DRIVE
LEE'S SUMMIT, MISSOURI



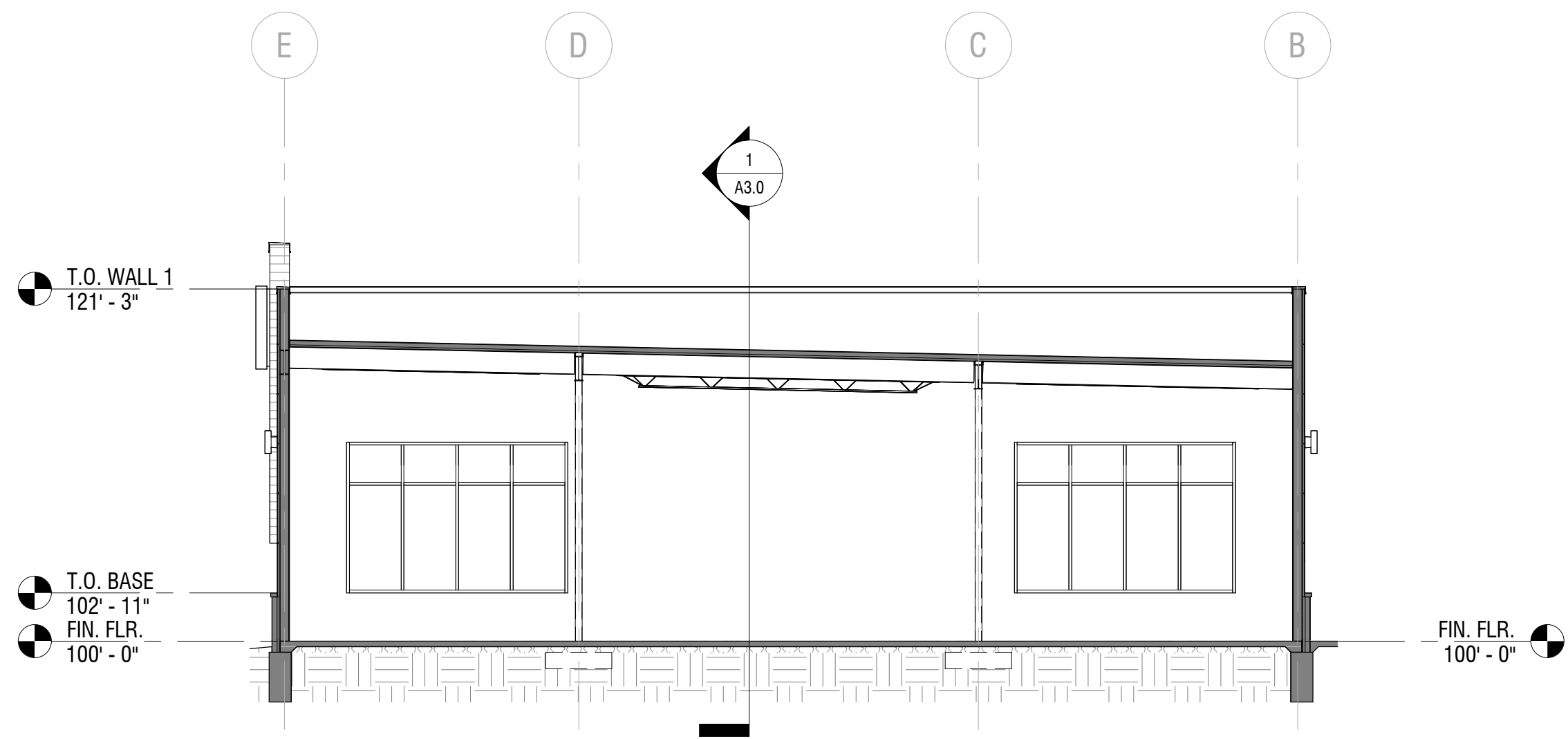
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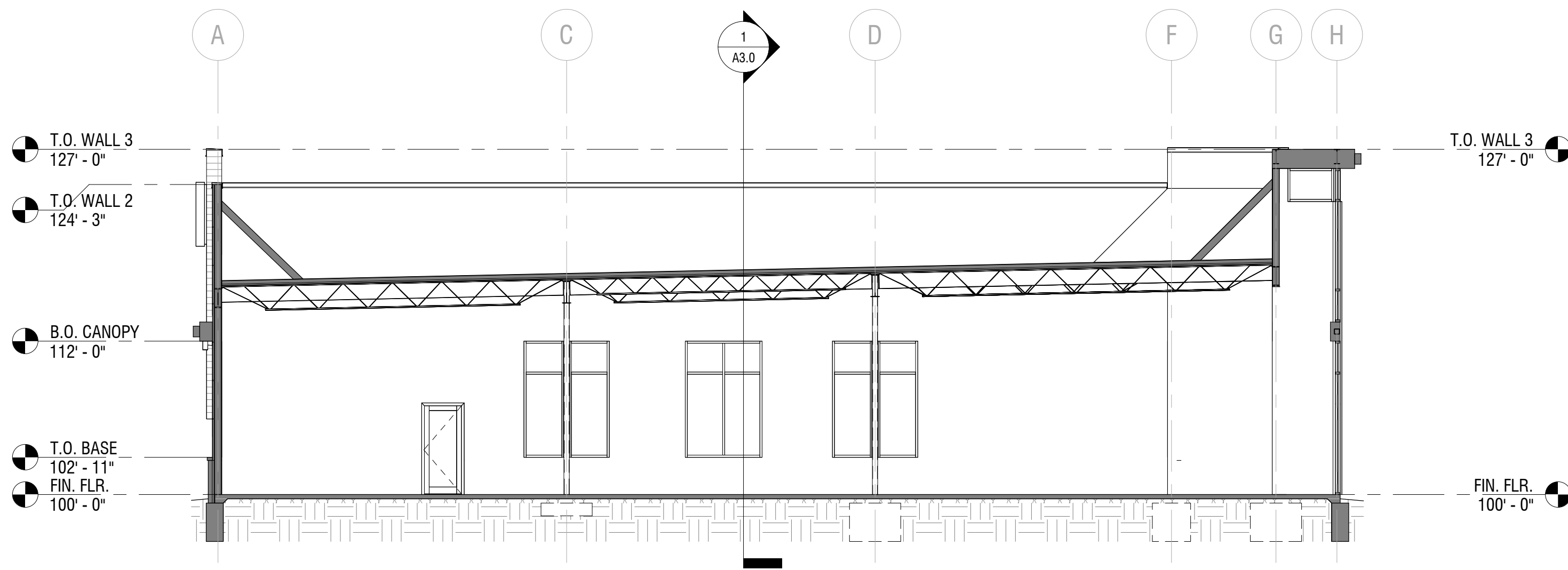
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SHEET NUMBER

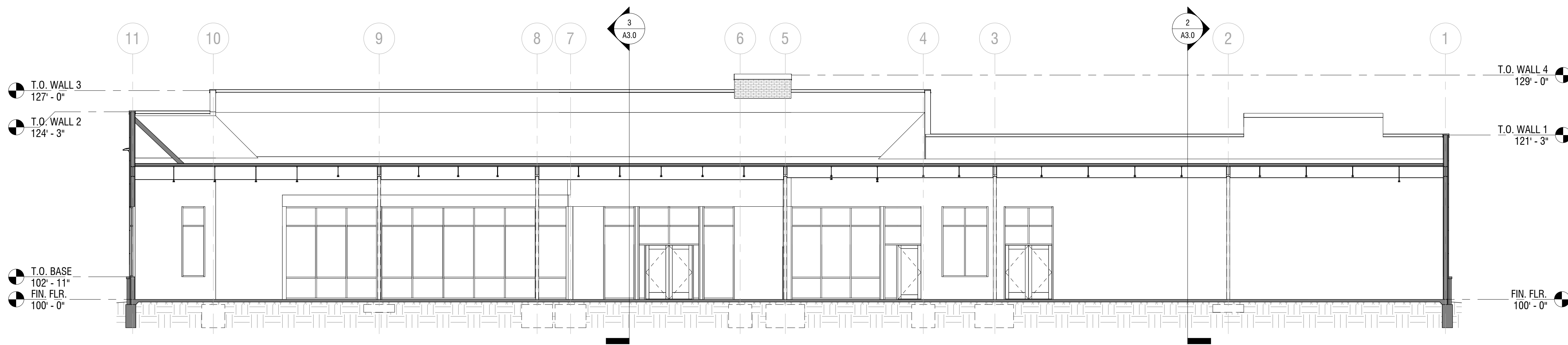
A3.0
BUILDING SECTIONS



2 E-W BUILDING SECTION 1
1/8" = 1'-0"

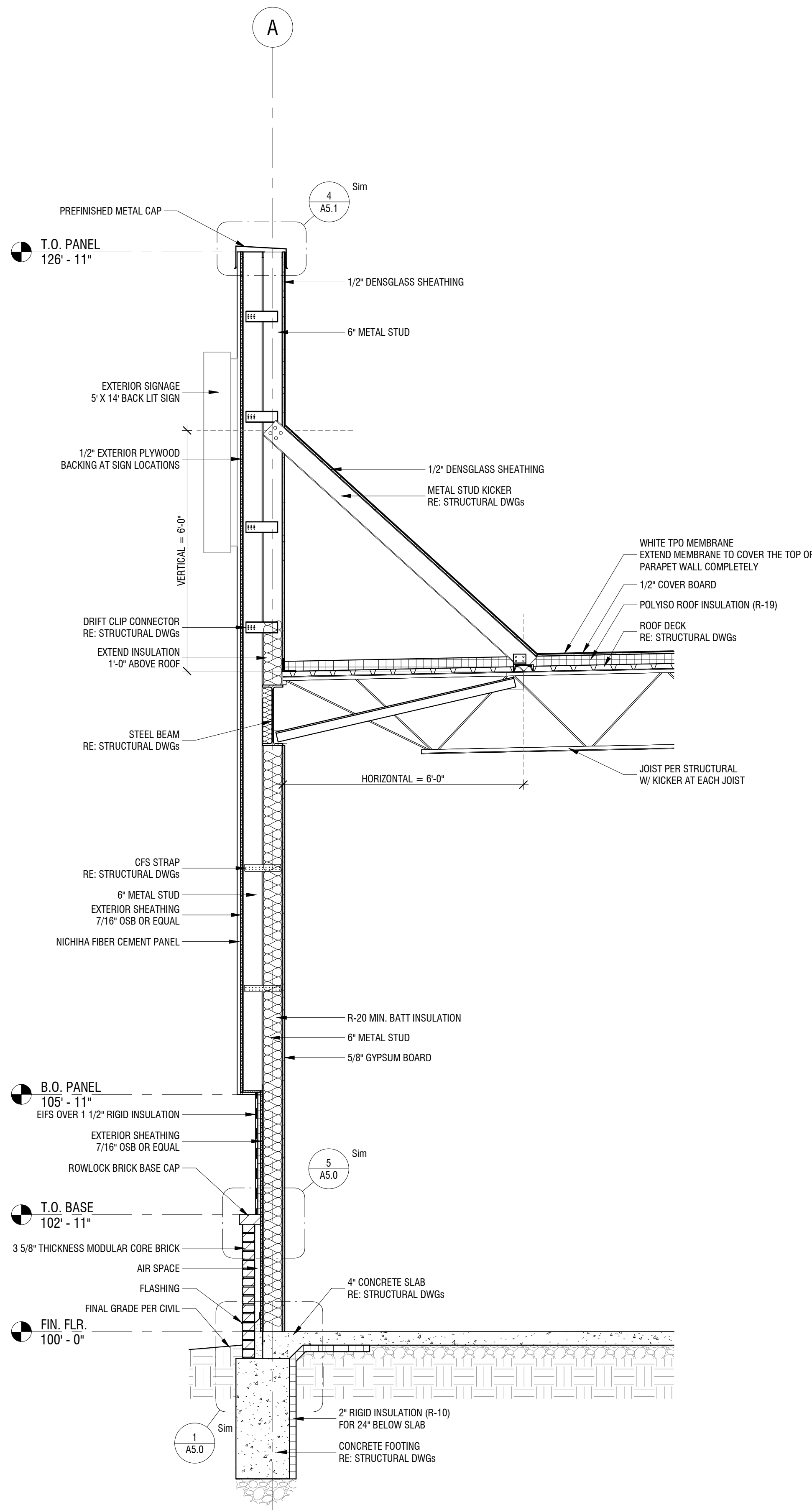


3 E-W BUILDING SECTION 2
1/8" = 1'-0"

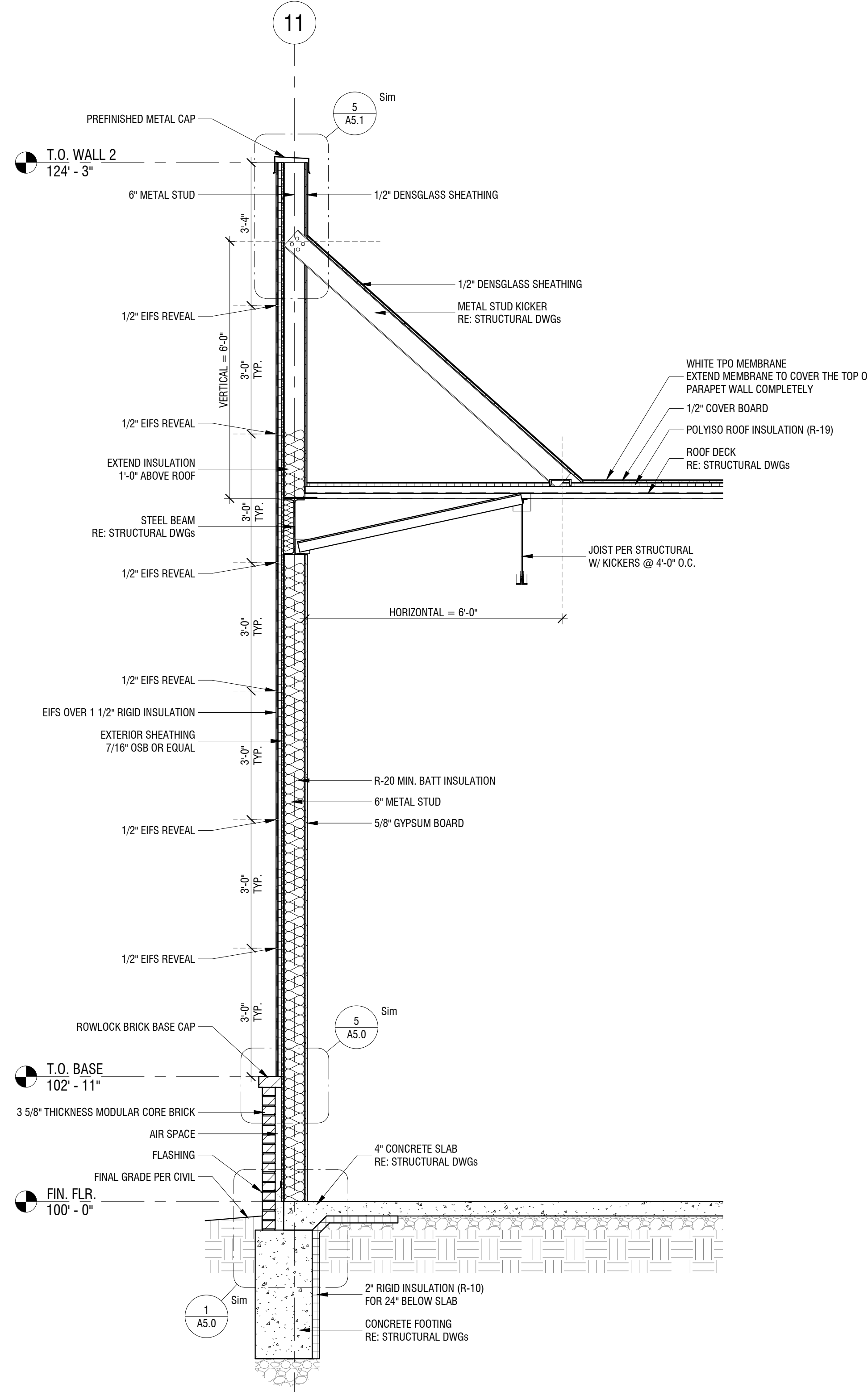


1 N-S BUILDING SECTION
1/8" = 1'-0"

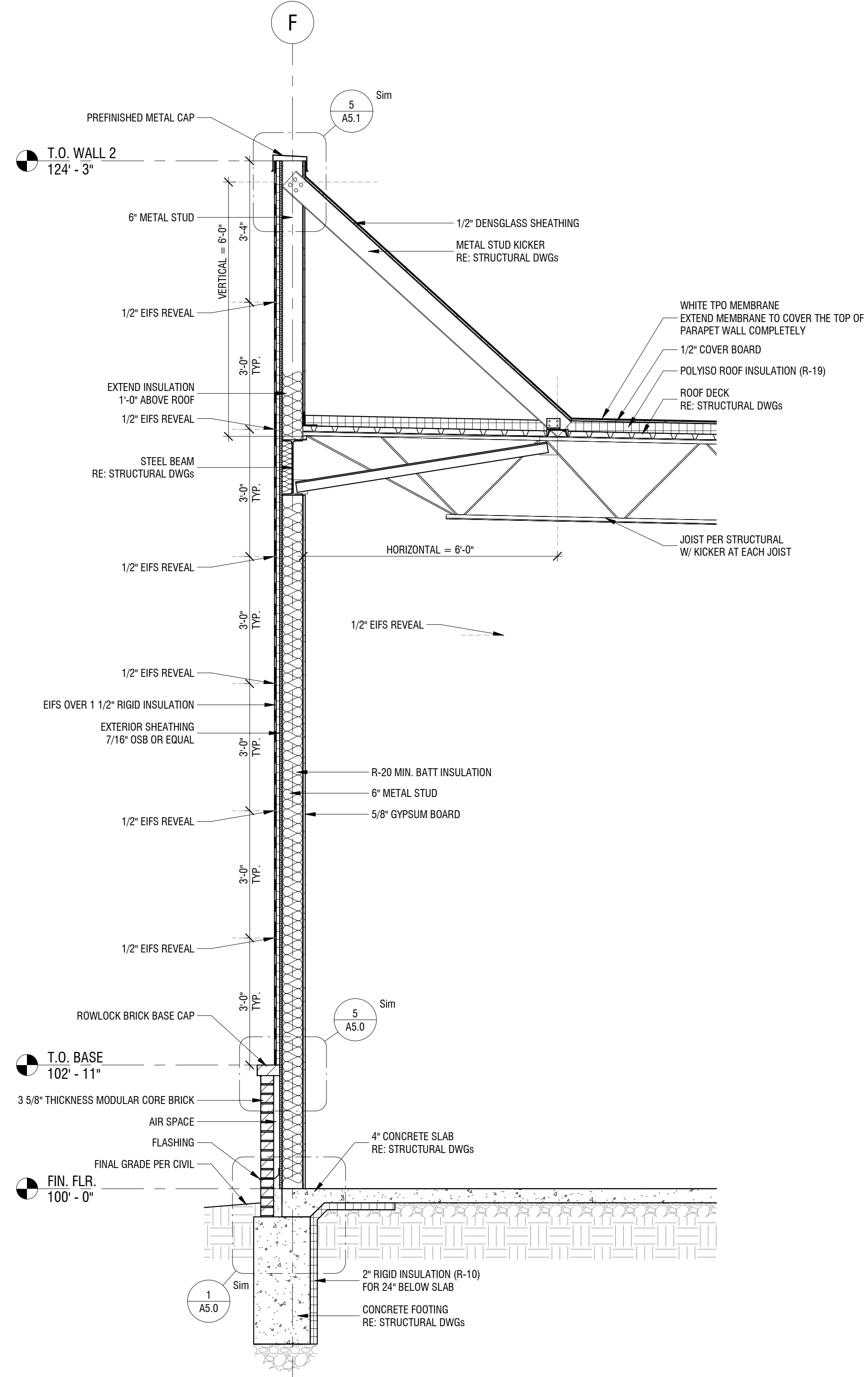
3 WALL SECTION 3
1/2" = 1'-0"



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



2 WALL SECTION 5
1/2" = 1'-0"



3 WALL SECTION 6
1/2" = 1'-0"



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A NEW BUILDING FOR:

ASSOCIATED PLASTIC SURGEONS

I-470 BUSINESS & TECHNOLOGY CENTER
NE McBAIN DRIVE
LEE'S SUMMIT, MISSOURI



01/28/2025

PROJECT NO. 231206

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NO.	REVISION	DATE

SHEET NUMBER
A3.2
WALL SECTIONS



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ASSOCIATED PLASTIC SURGEONS

I-470 BUSINESS & TECHNOLOGY CENTER
NE McBAIN DRIVE
LEE'S SUMMIT, MISSOURI

A NEW BUILDING FOR:



01/28/2025

PROJECT NO. 231206

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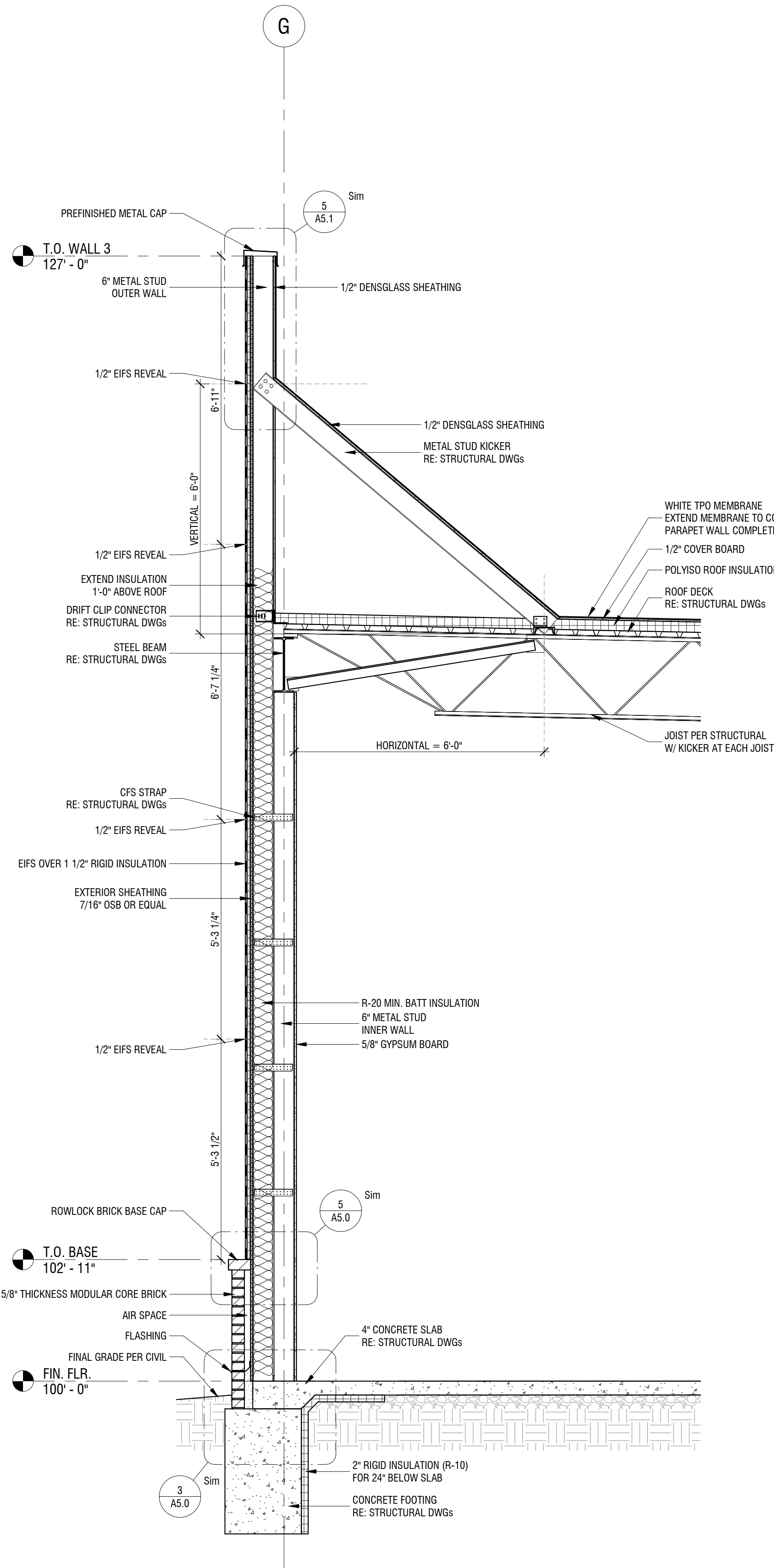
NO. REVISION DATE

NO.	REVISION	DATE

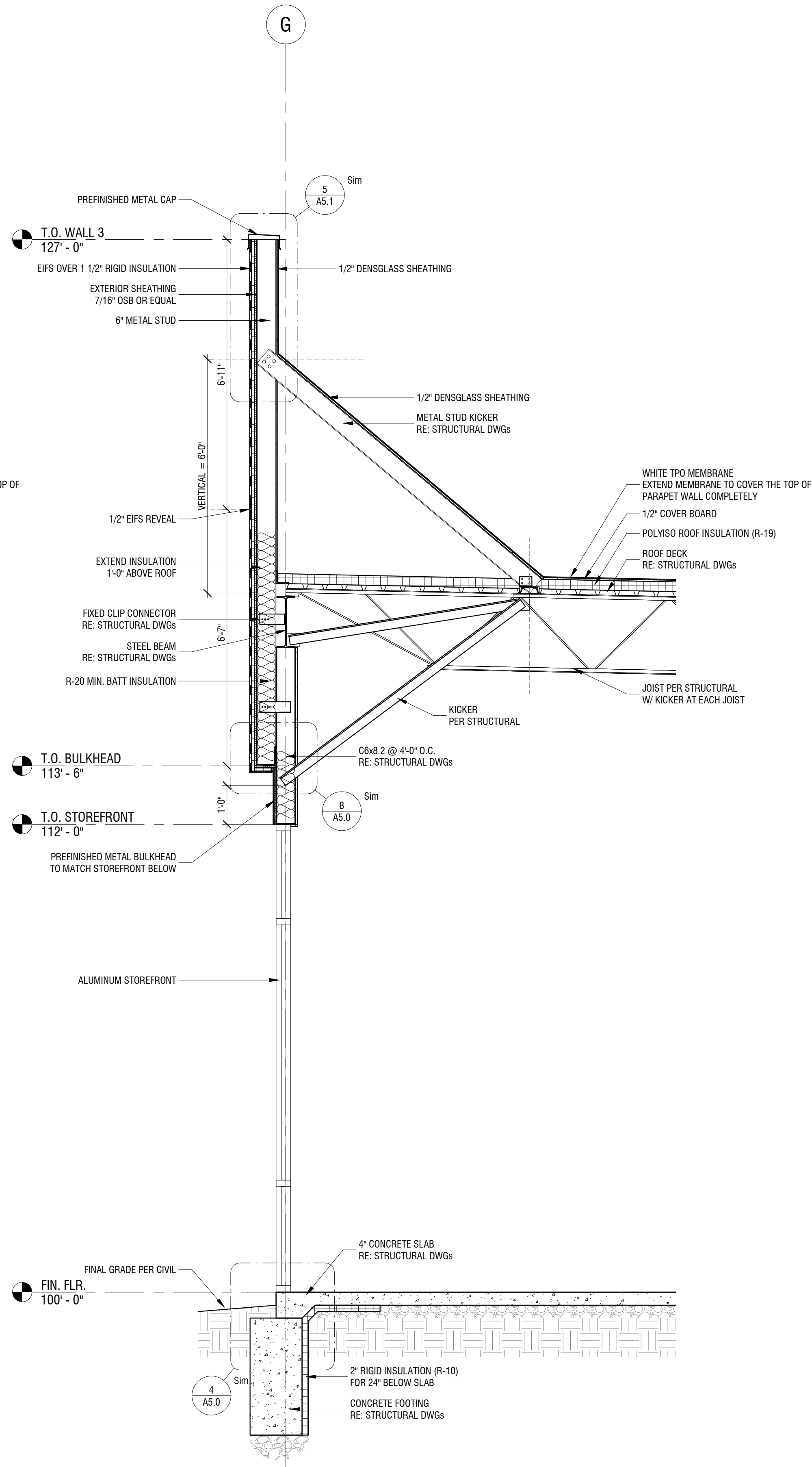
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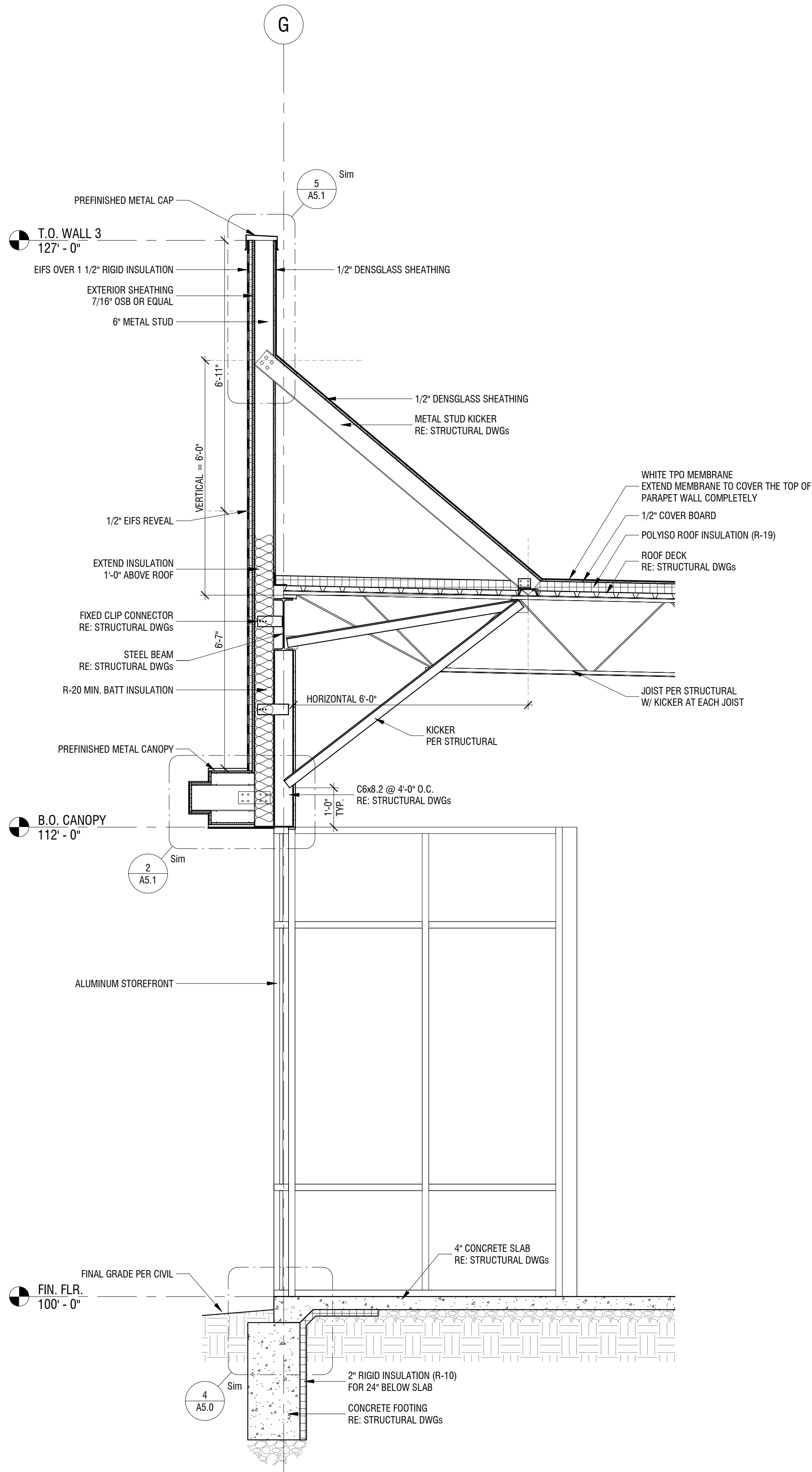
WALL SECTIONS



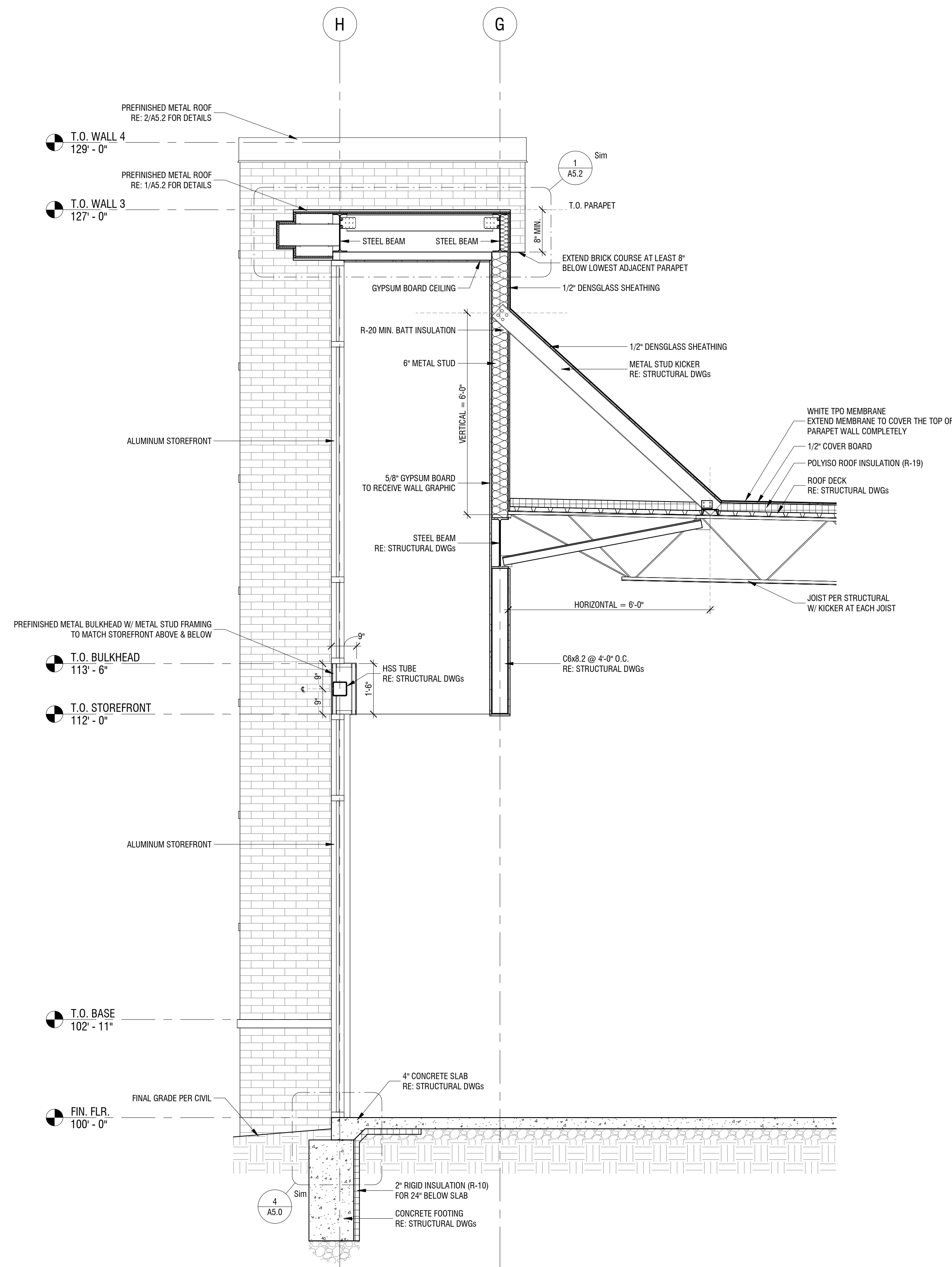
1 WALL SECTION 7
1/2" = 1'-0"



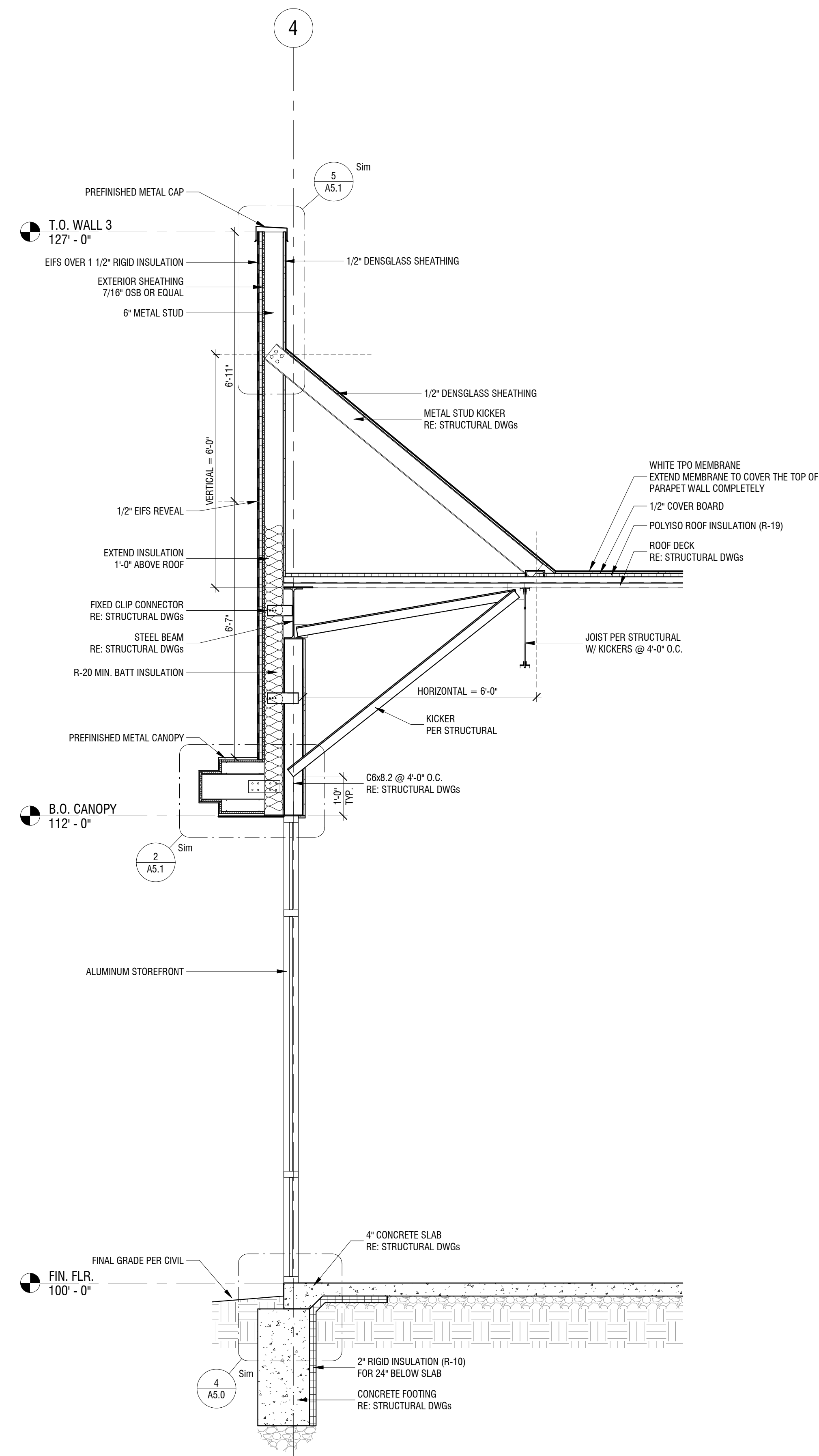
2 WALL SECTION 8
1/2" = 1'-0"



3 WALL SECTION 10
1/2" = 1'-0"



1 WALL SECTION 9
1/2" = 1'-0"



2 WALL SECTION 11
1/2" = 1'-0"



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A NEW BUILDING FOR:



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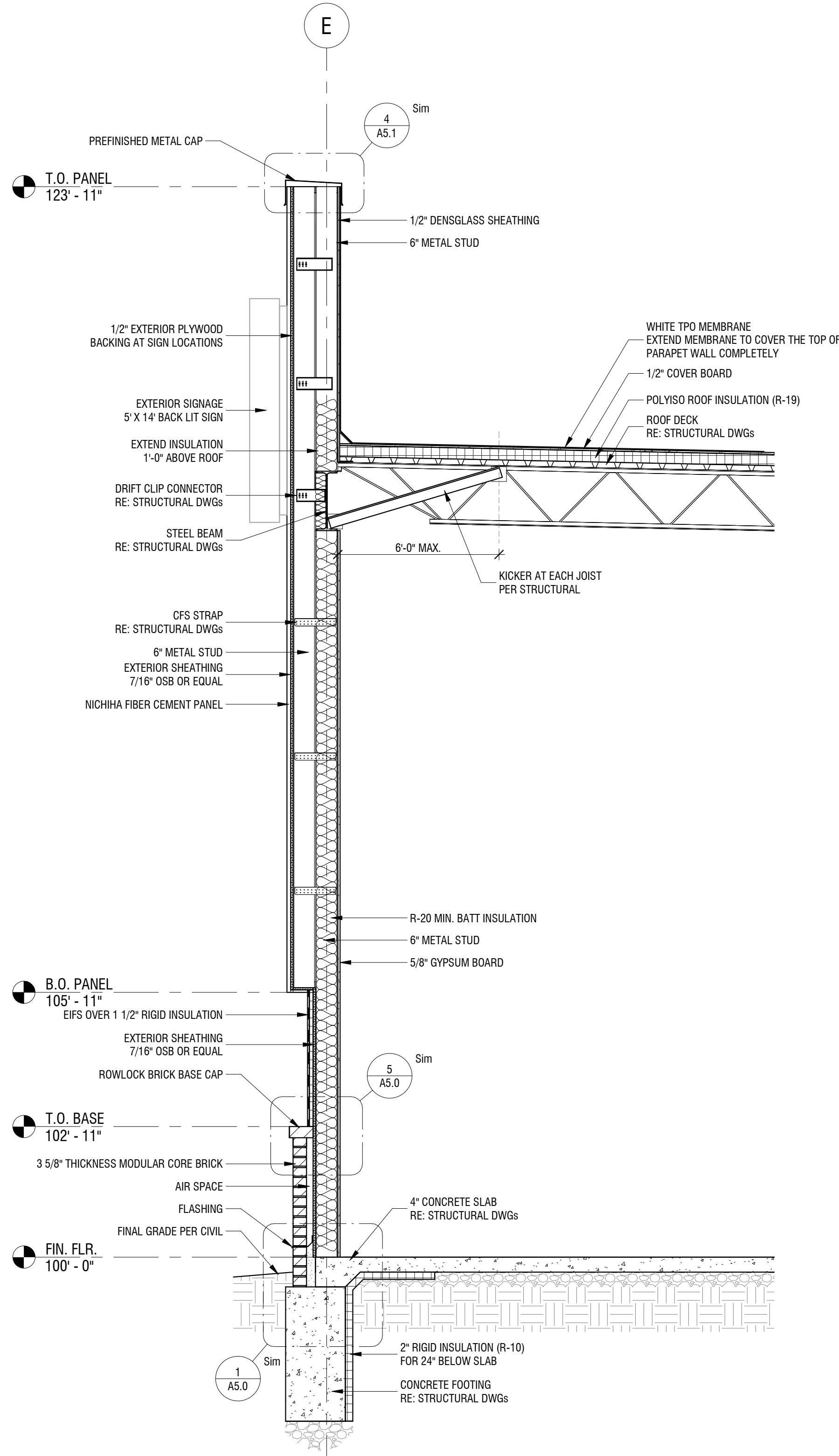
NO. REVISION DATE

NO.	REVISION	DATE

SHEET NUMBER

A3.4

WALL SECTIONS



1 WALL SECTION 12
1/2" = 1'-0"



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A NEW BUILDING FOR:

ASSOCIATED PLASTIC SURGEONS

I-470 BUSINESS & TECHNOLOGY CENTER
NE McBAIN DRIVE
LEE'S SUMMIT, MISSOURI



01/28/2025

PROJECT NO. 231206

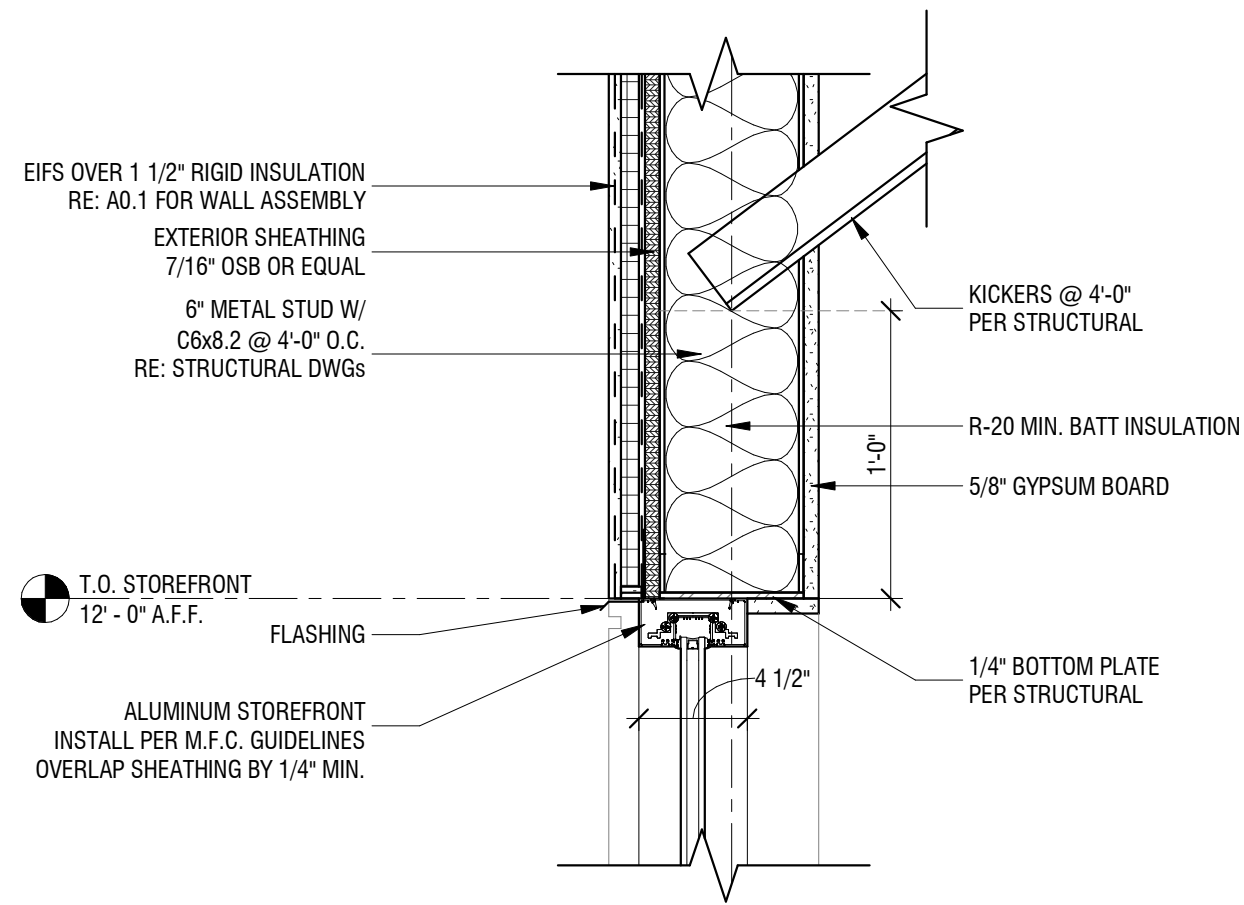
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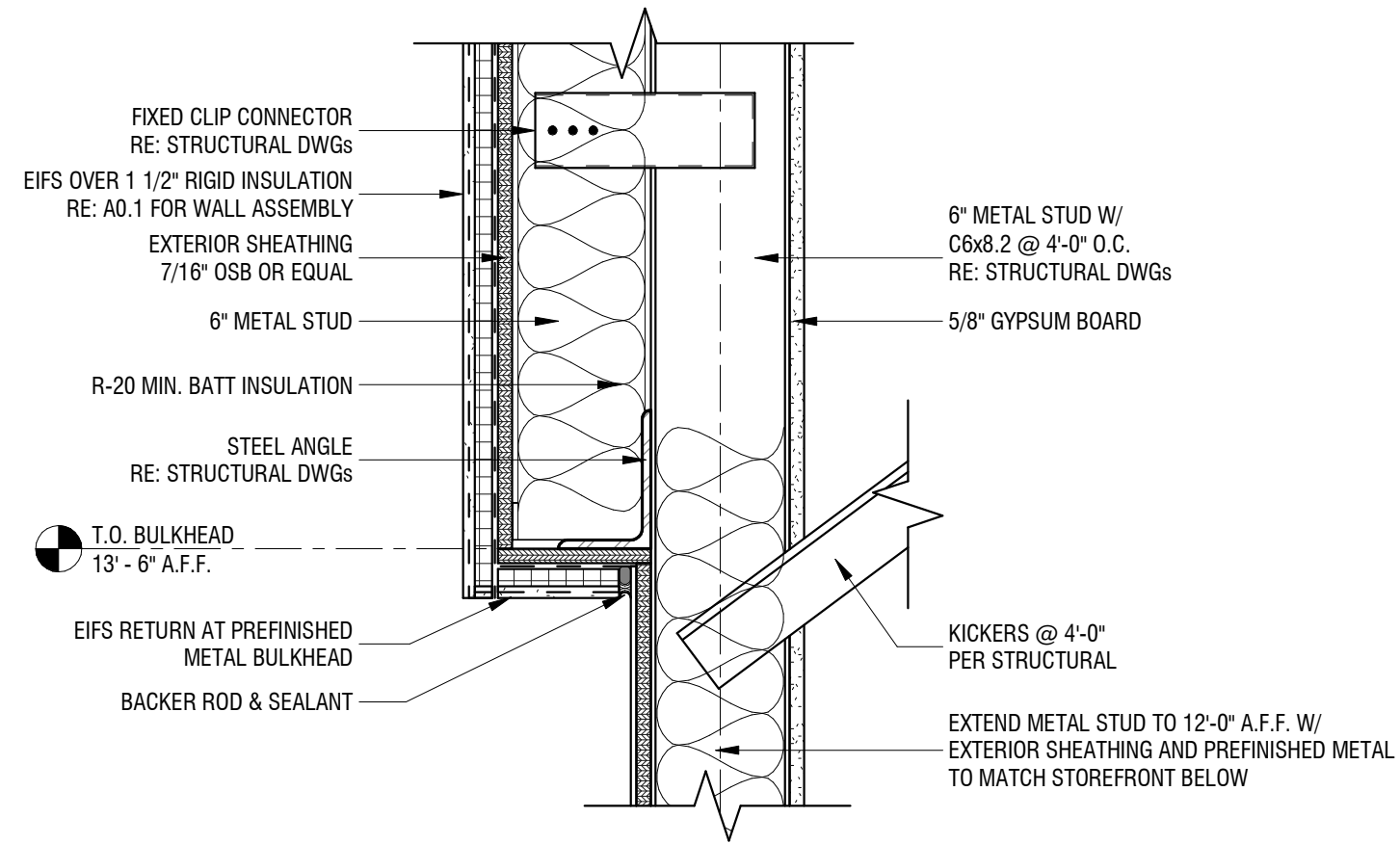
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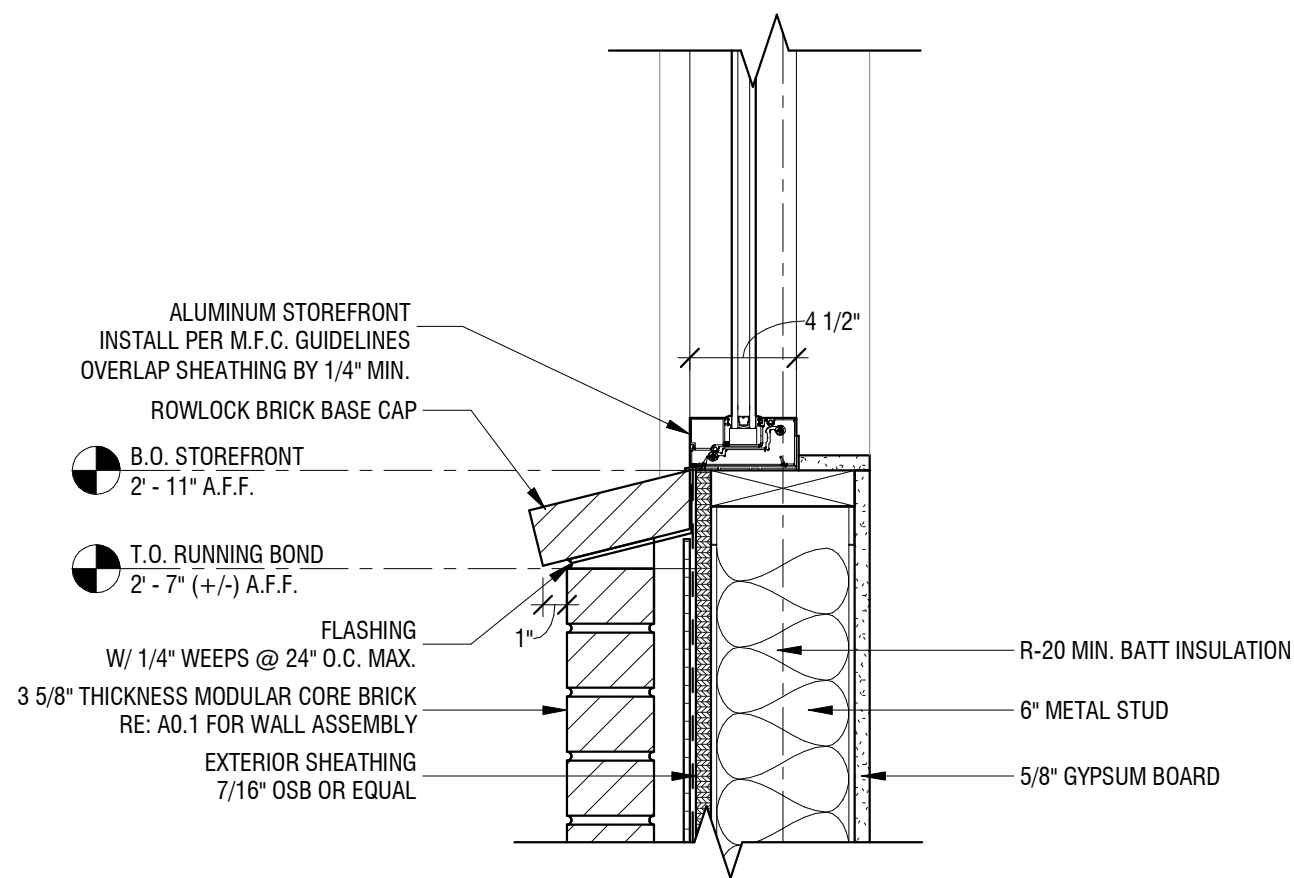
WALL SECTIONS



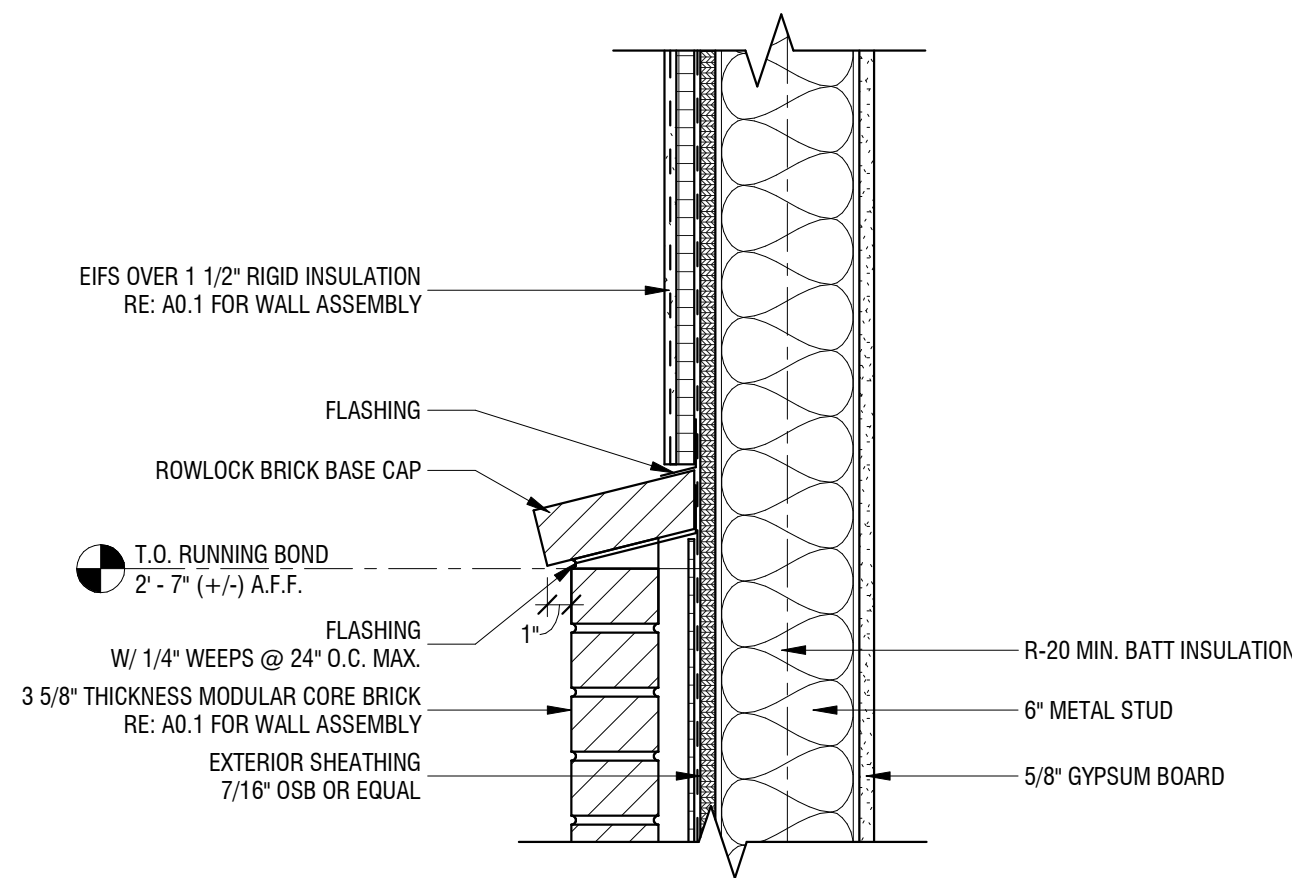
7 SECTION DETAIL - STOREFRONT HDR 1
1 1/2" = 1'-0"



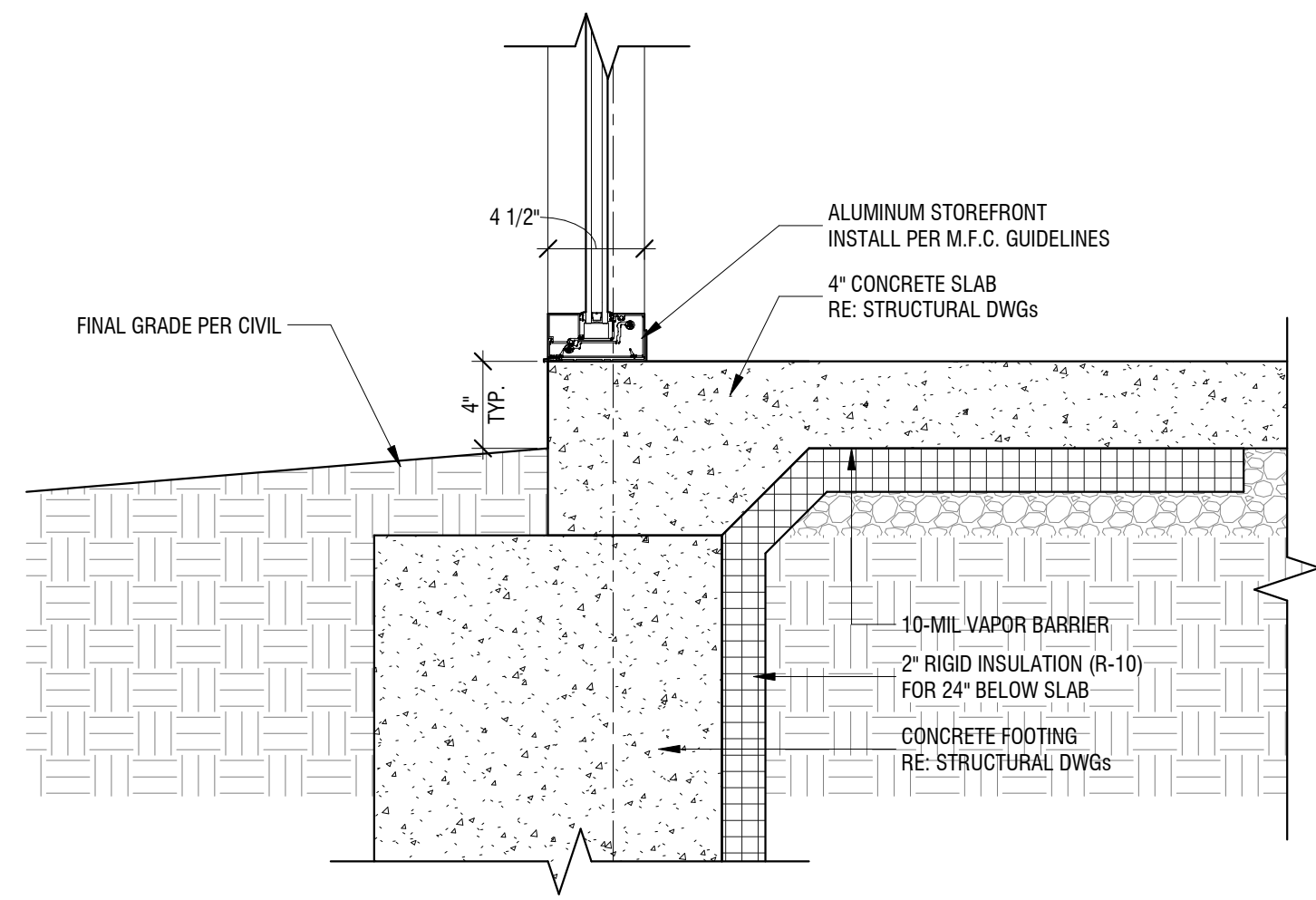
8 SECTION DETAIL - BULKHEAD
1 1/2" = 1'-0"



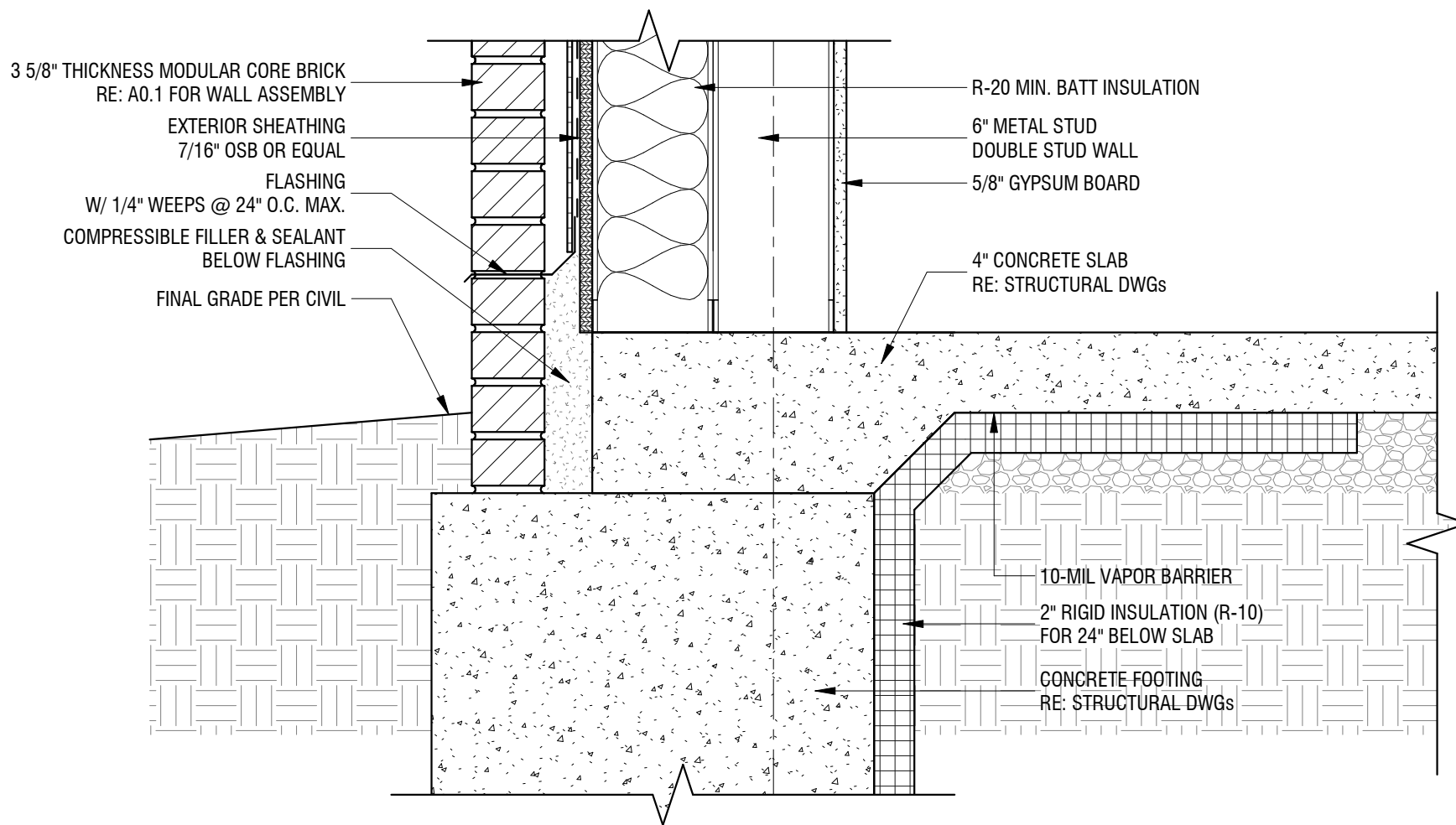
6 SECTION DETAIL - BRICK BASE CAP 2
1 1/2" = 1'-0"



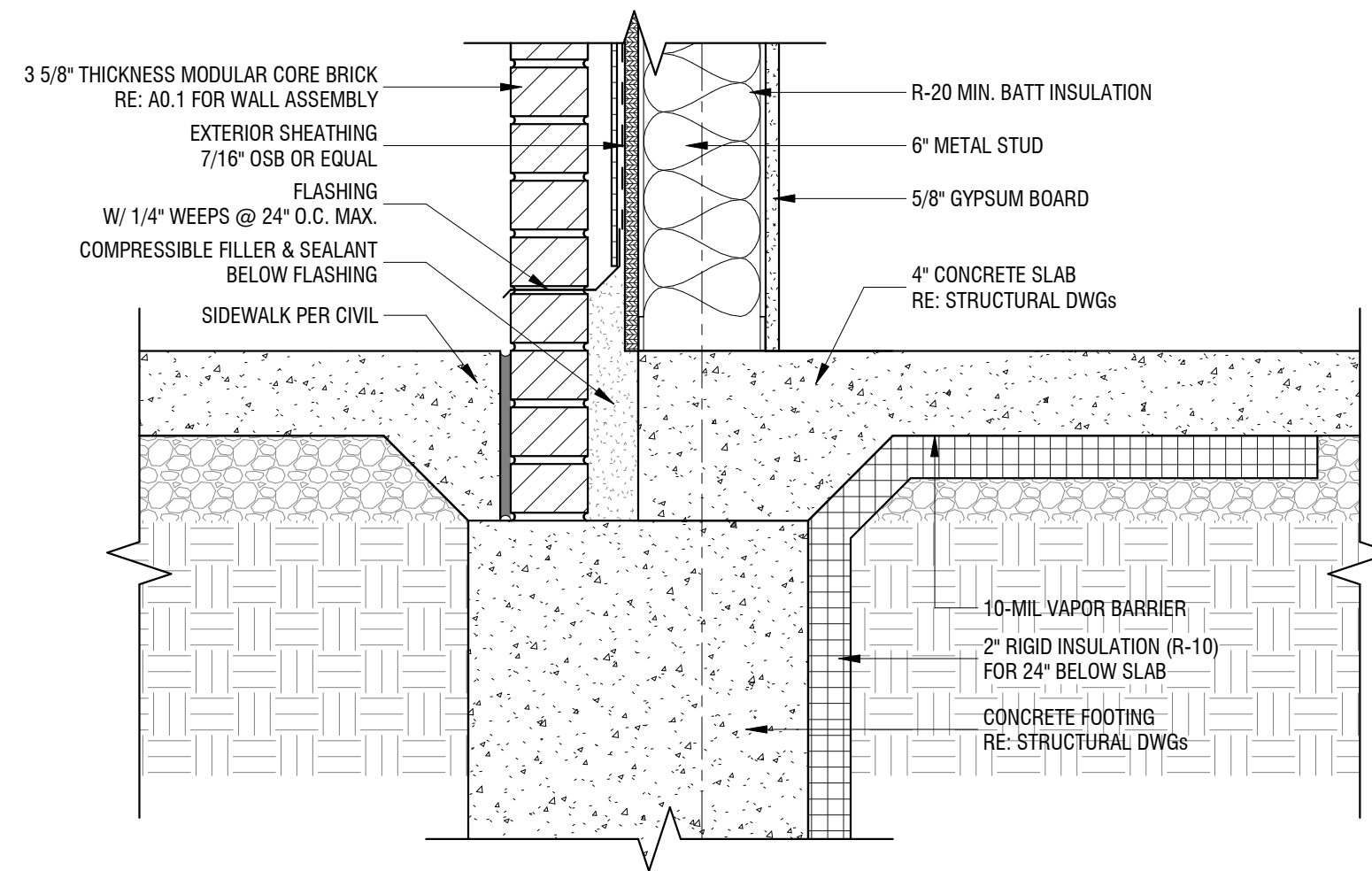
5 SECTION DETAIL - BRICK BASE CAP 1
1 1/2" = 1'-0"



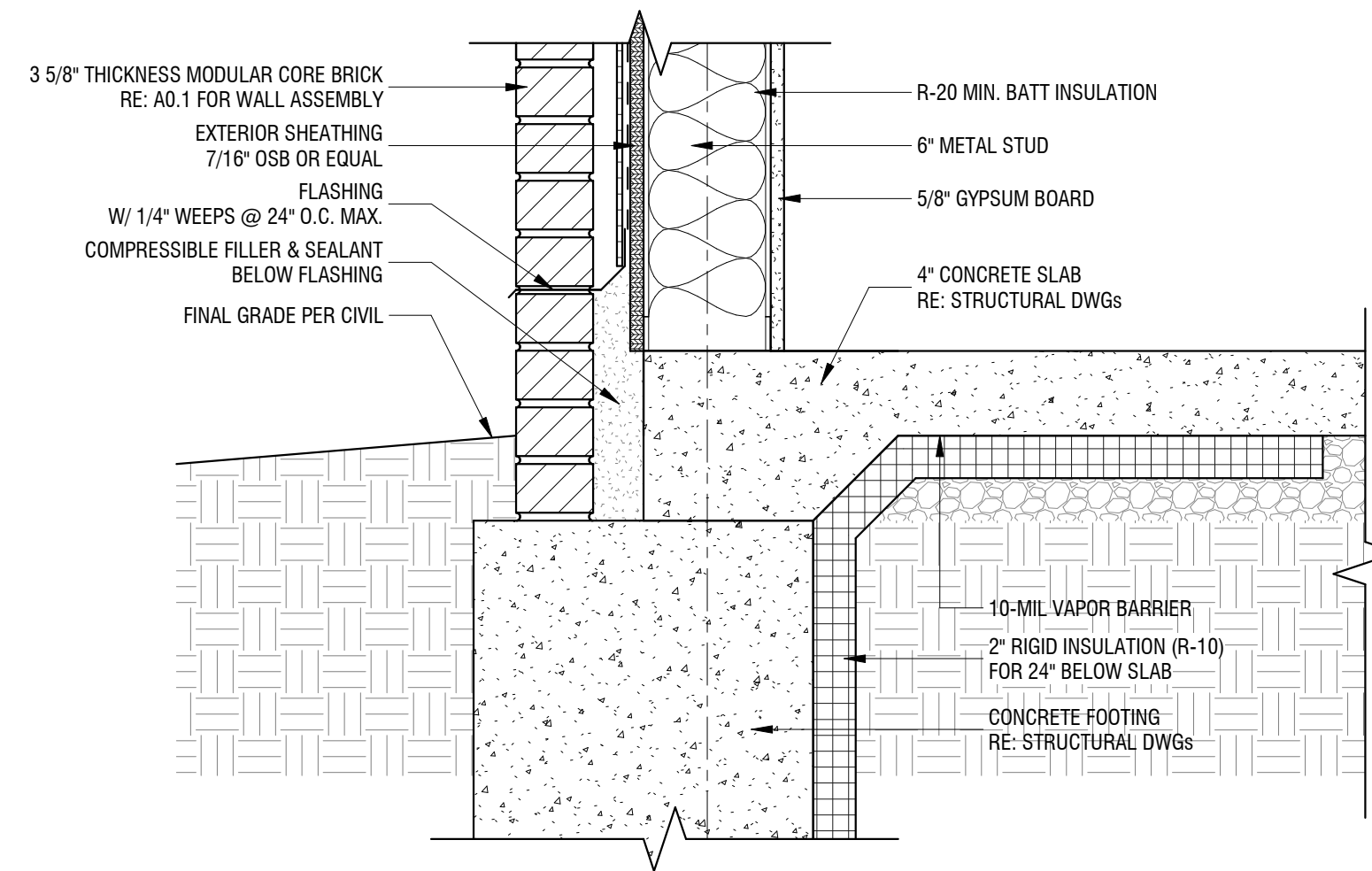
4 SECTION DETAIL - FOUNDATION 4
1 1/2" = 1'-0"



3 SECTION DETAIL - FOUNDATION 3
1 1/2" = 1'-0"



2 SECTION DETAIL - FOUNDATION 2
1 1/2" = 1'-0"



1 SECTION DETAIL - FOUNDATION 1
1 1/2" = 1'-0"



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A NEW BUILDING FOR:

ASSOCIATED PLASTIC SURGEONS

I-470 BUSINESS & TECHNOLOGY CENTER
NE McBAIN DRIVE
LEE'S SUMMIT, MISSOURI



01/28/2025

PROJECT NO. 231206

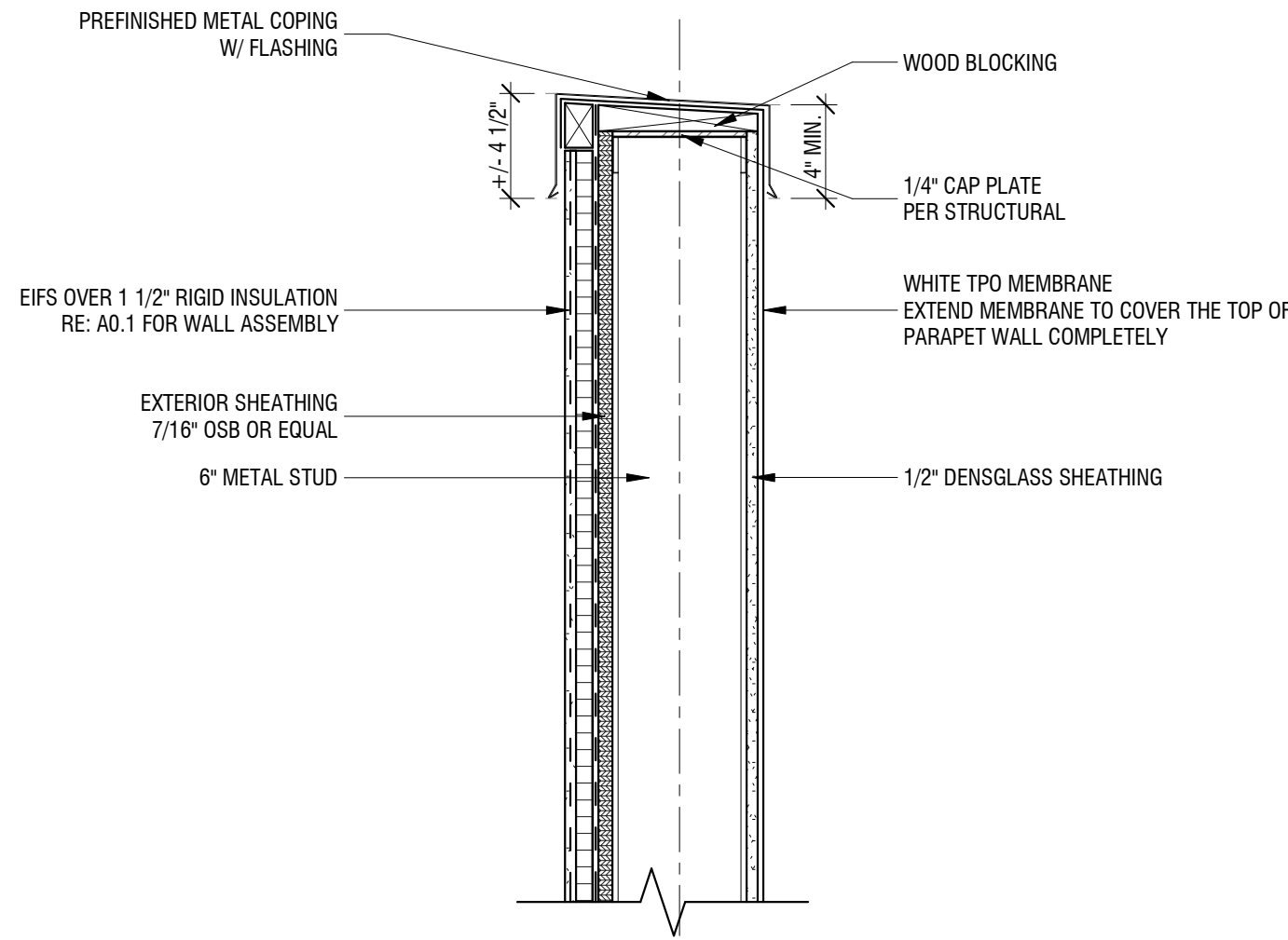
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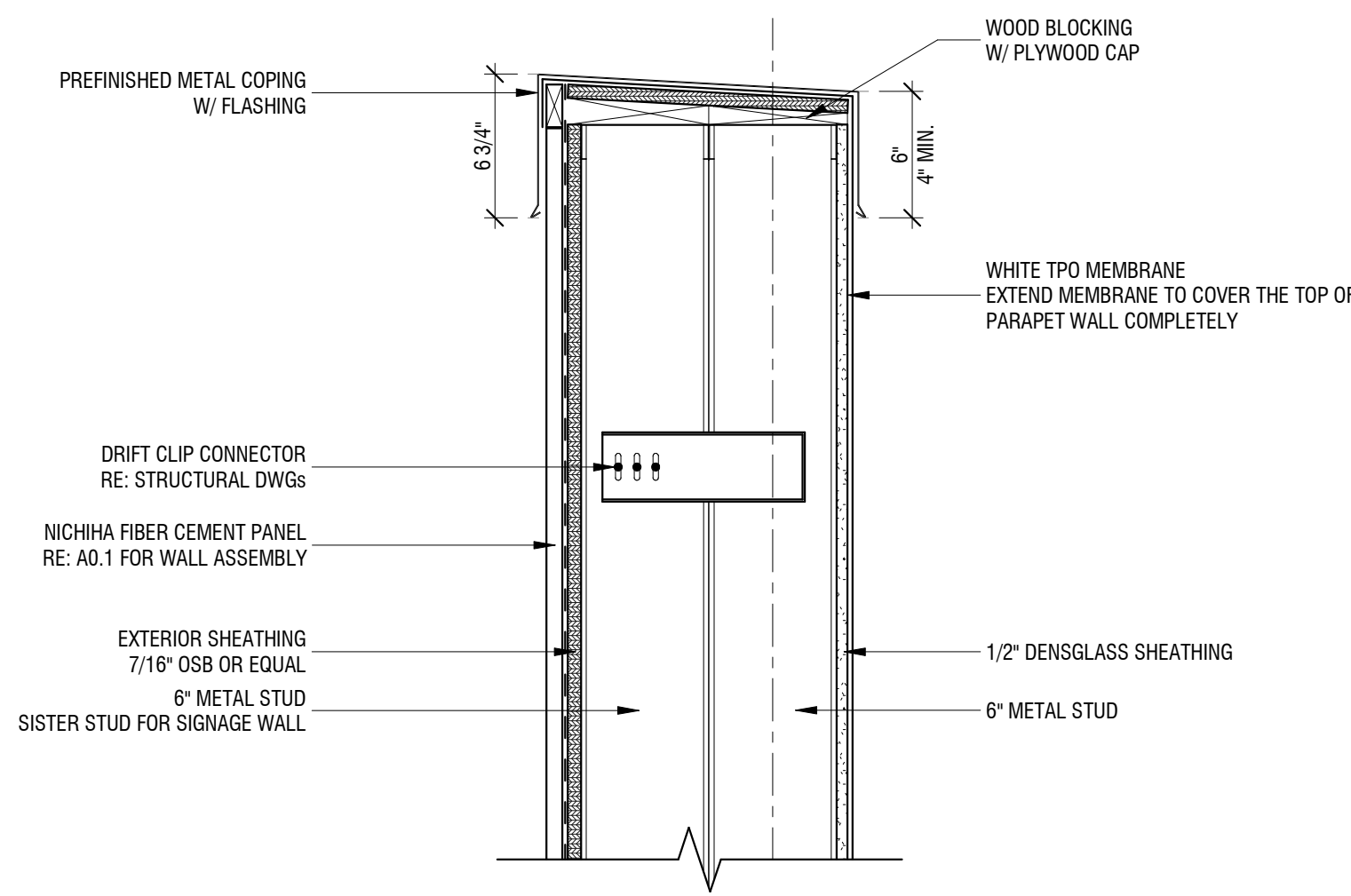
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A5.0

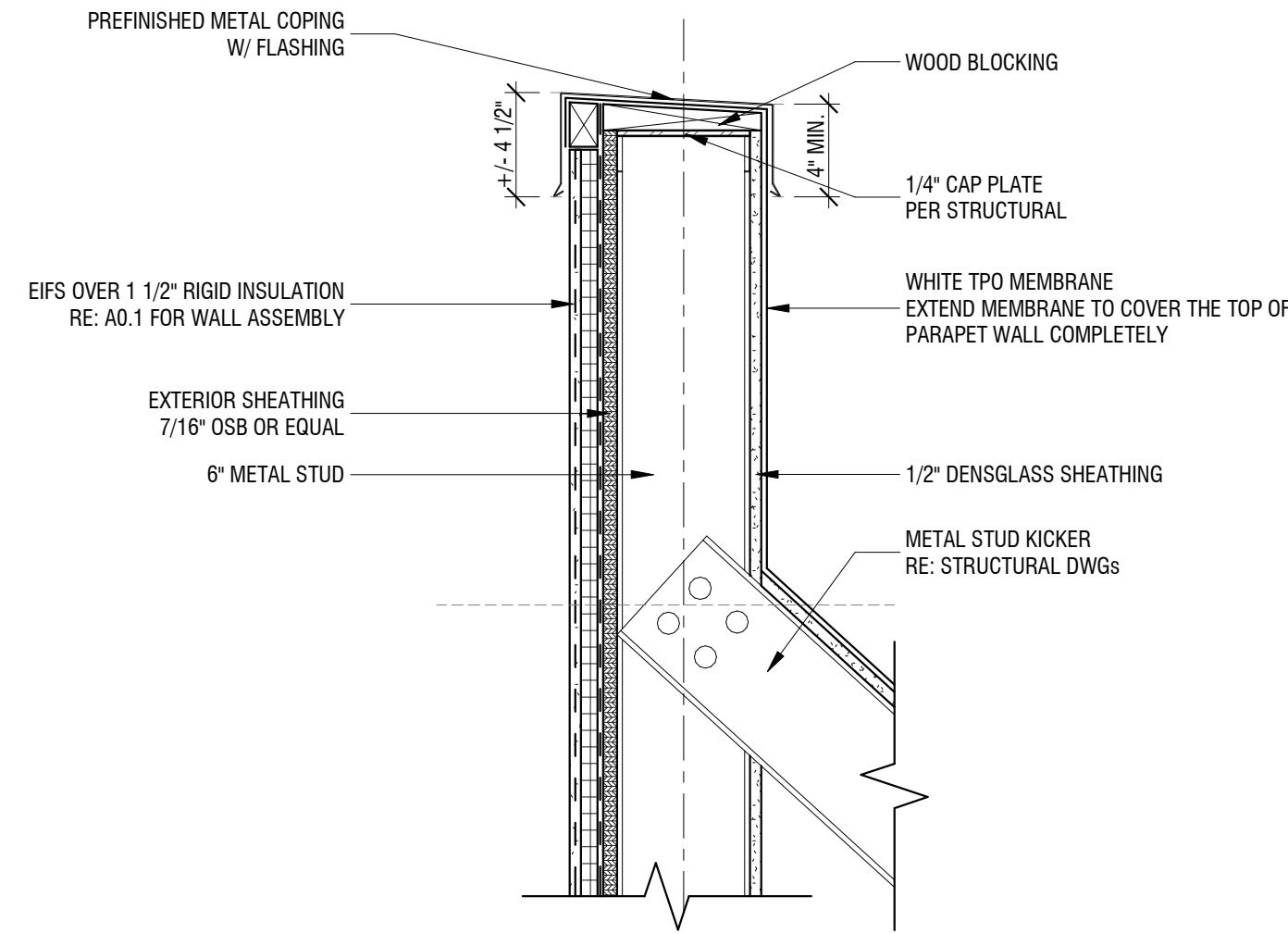
DETAILS



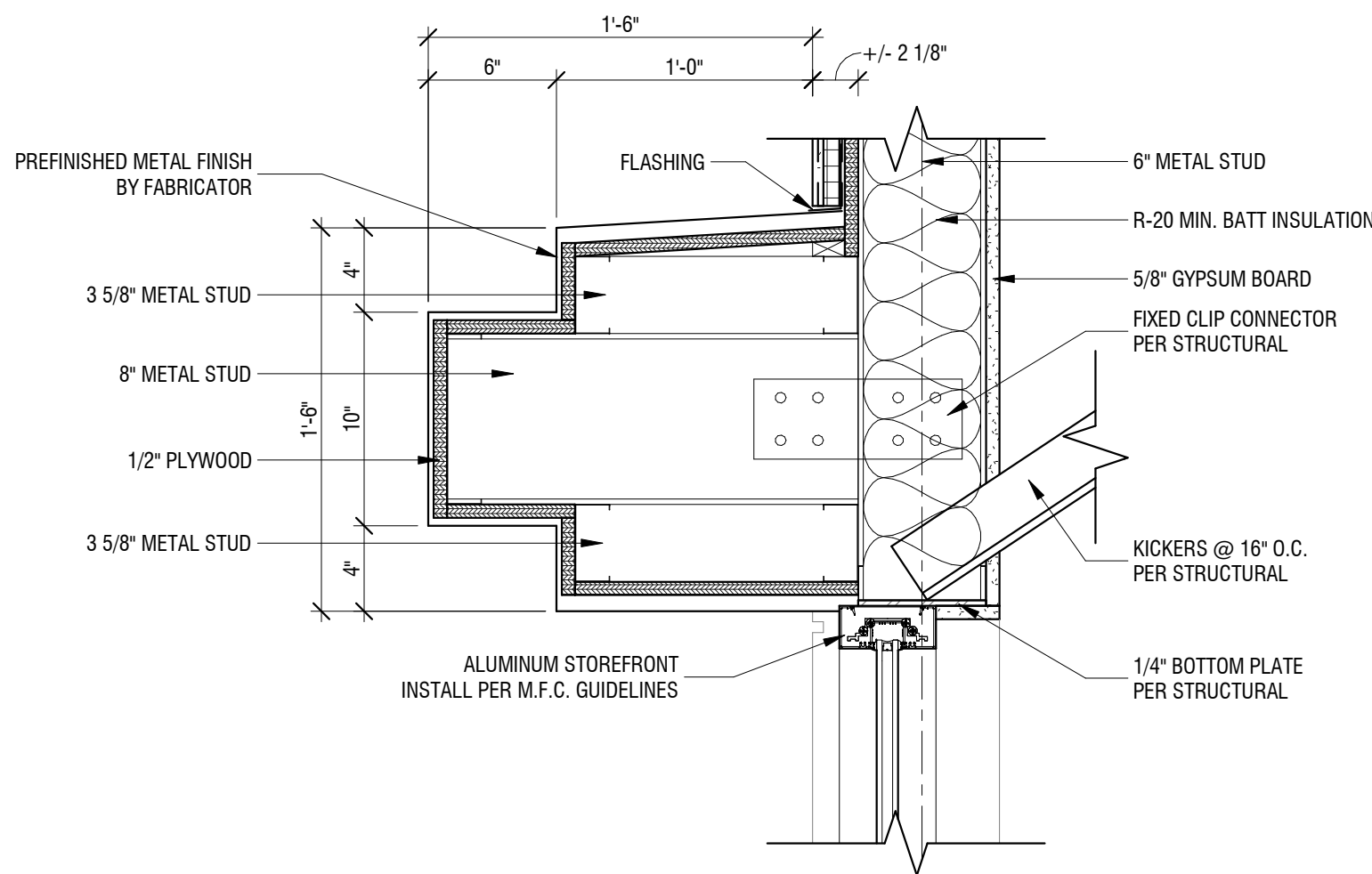
3 SECTION DETAIL - PARAPET 1
1 1/2" = 1'-0"



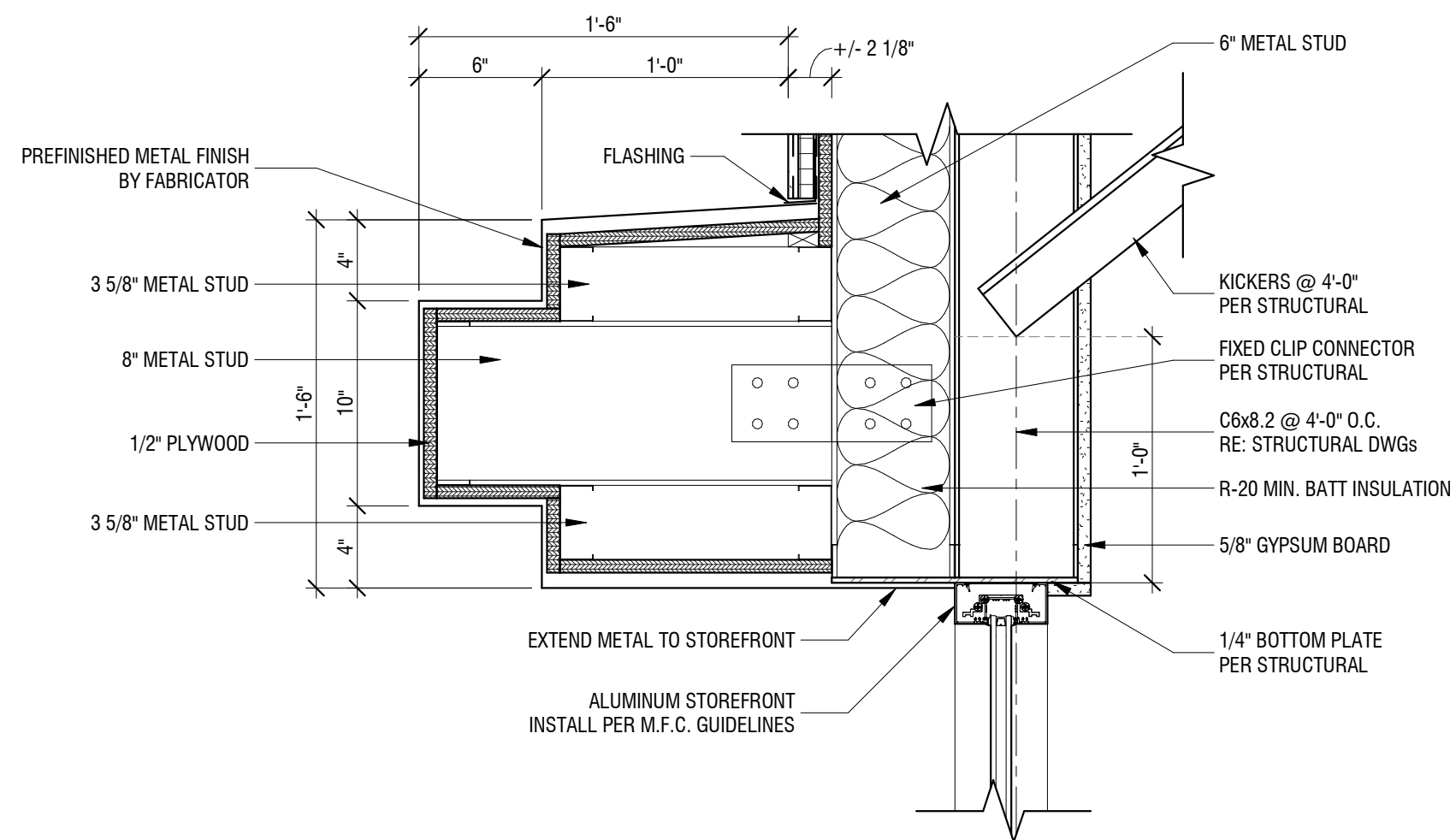
4 SECTION DETAIL - PARAPET 2
1 1/2" = 1'-0"



5 SECTION DETAIL - PARAPET W/ KICKER
1 1/2" = 1'-0"



1 SECTION DETAIL - CANOPY 1
1 1/2" = 1'-0"



2 SECTION DETAIL - CANOPY 2
1 1/2" = 1'-0"



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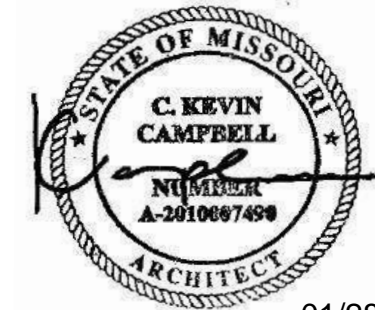
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A NEW BUILDING FOR:

ASSOCIATED PLASTIC SURGEONS

I-470 BUSINESS & TECHNOLOGY CENTER
NE McBAIN DRIVE
LEE'S SUMMIT, MISSOURI



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SHEET NUMBER
A5.1
DETAILS



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A NEW BUILDING FOR:

ASSOCIATED PLASTIC SURGEONS

I-470 BUSINESS & TECHNOLOGY CENTER
NE McBAIN DRIVE
LEE'S SUMMIT, MISSOURI



01/28/2025

PROJECT NO. 231206

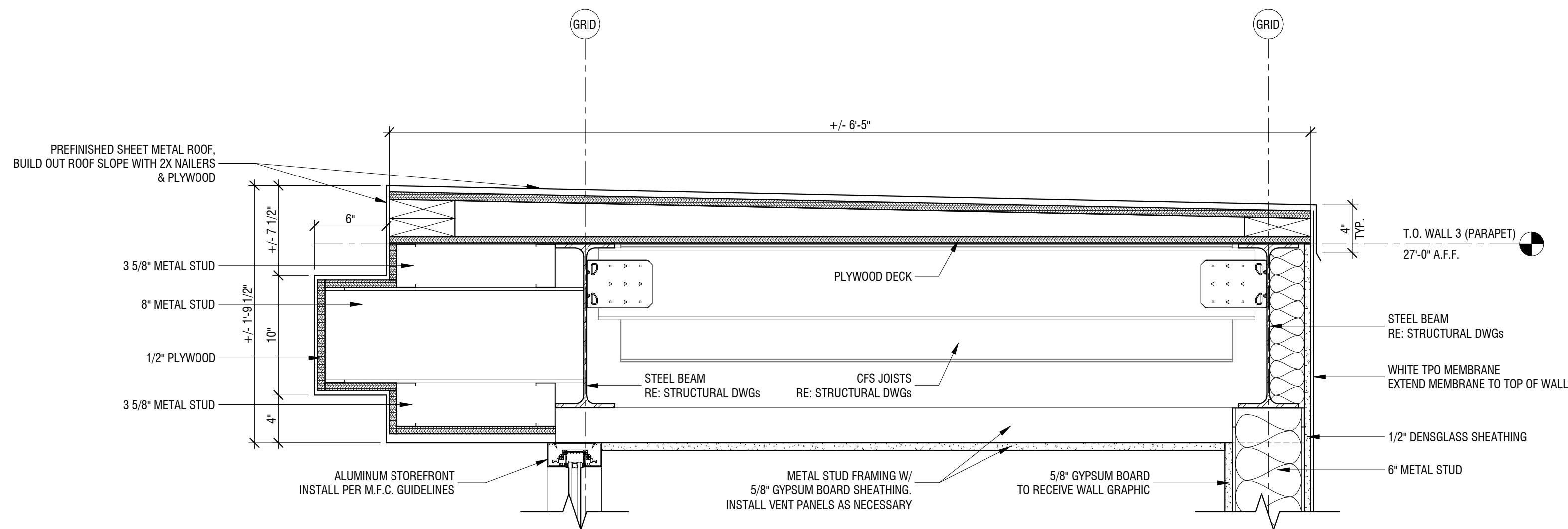
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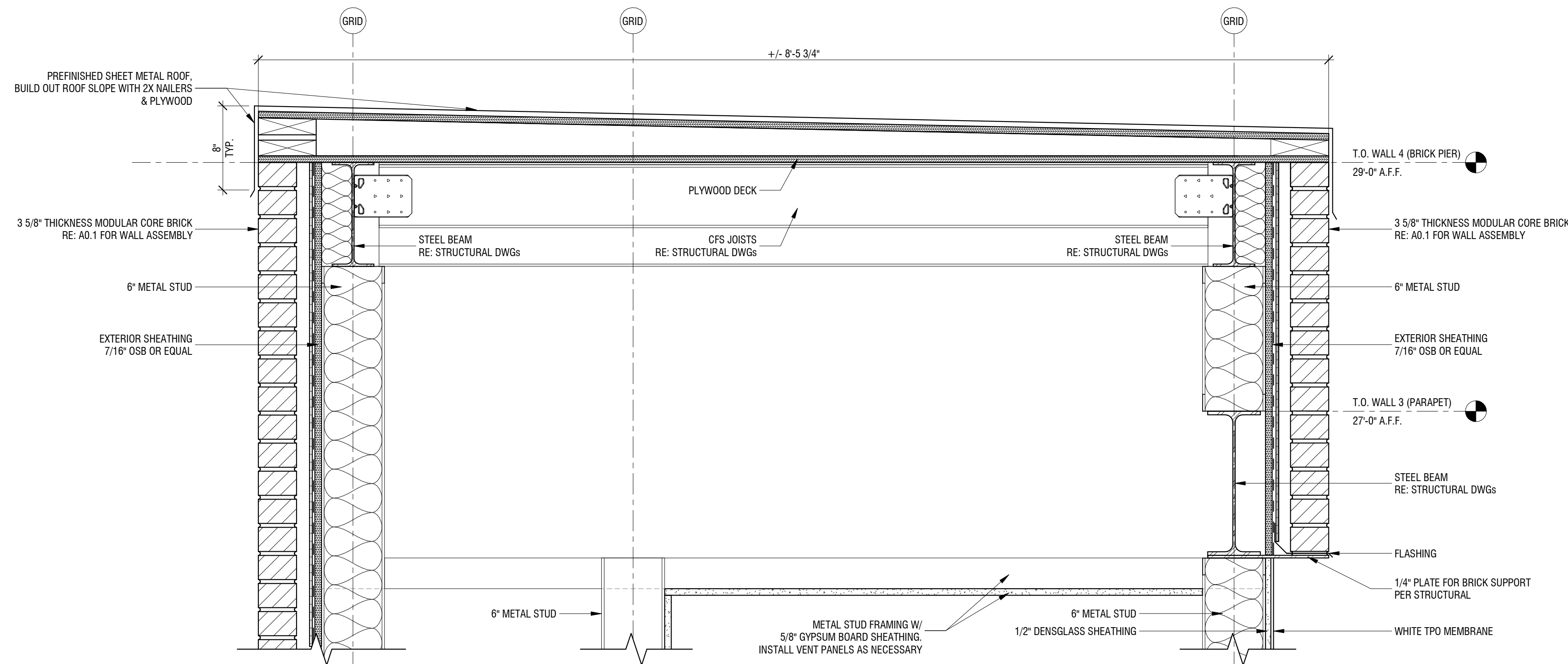
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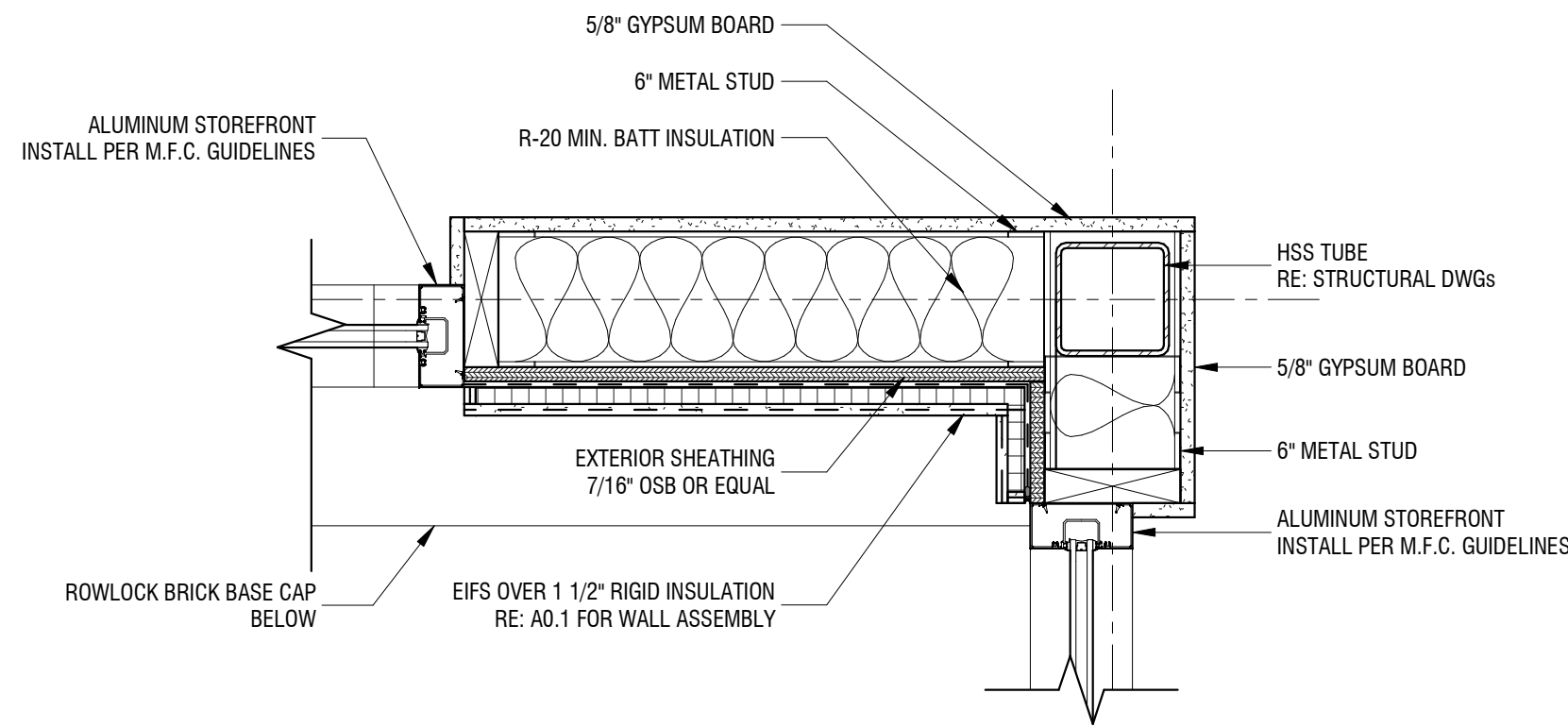
DETAILS



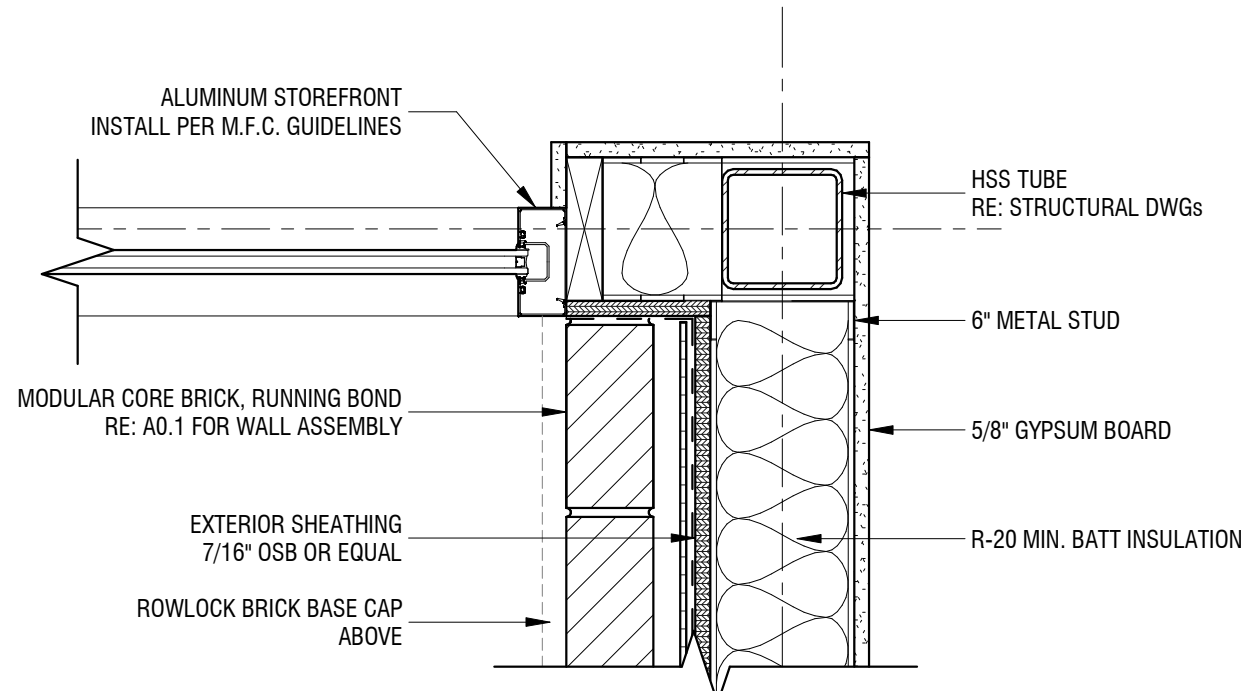
1 SECTION DETAIL - METAL ROOF 1
1 1/2" = 1'-0"



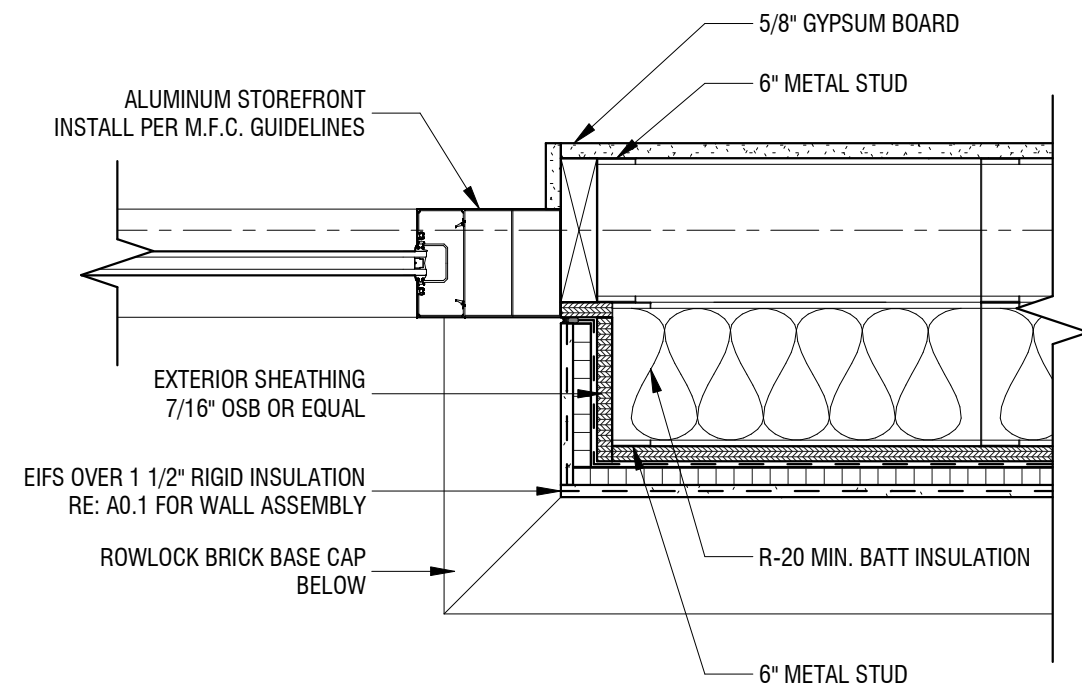
2 SECTION DETAIL - METAL ROOF 2
1 1/2" = 1'-0"



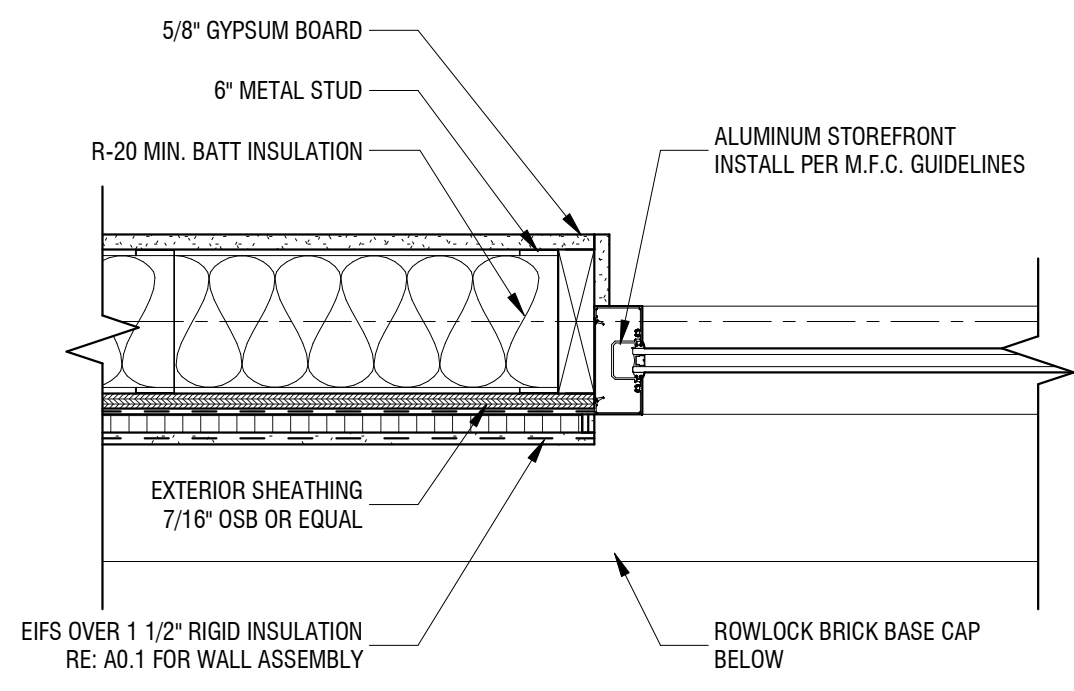
2 PLAN DETAIL - STOREFRONT JAMB 2
1 1/2" = 1'-0"



3 PLAN DETAIL - STOREFRONT JAMB 3
1 1/2" = 1'-0"



4 PLAN DETAIL - STOREFRONT JAMB 4
1 1/2" = 1'-0"



1 PLAN DETAIL - STOREFRONT JAMB 1
1 1/2" = 1'-0"



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A NEW BUILDING FOR:

ASSOCIATED PLASTIC SURGEONS

I-470 BUSINESS & TECHNOLOGY CENTER
NE MCBAIN DRIVE
LEE'S SUMMIT, MISSOURI



01/28/2025

PROJECT NO. 231206
DRAWING ISSUANCE: JAN 28, 2025

NO.	REVISION	DATE

SHEET NUMBER
A5.3
DETAILS

DOOR SCHEDULE														
DOOR NUMBER	ELEVATION	LOCATION	SIZE			OPERATION	FIRE RATING	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	HARDWARE SET	REMARKS
			WIDTH	HEIGHT	THICKNESS									
FIN. FLR.														
01a	E	CLINIC & MED SPA ENTRANCE	6'-0"	7'-0"	0'-2"	SW	NON	AF-GP	ALUM/GL	ANODIZED	ALUM	ANODIZED	1	ENTRY/EGRESS DOOR
01b	E	CLINIC & MED SPA ENTRANCE - VESTIBULE	6'-0"	7'-0"	0'-2"	SW	NON	AF-GP	ALUM/GL	ANODIZED	ALUM	ANODIZED	1	ENTRY/EGRESS DOOR
02	B	CLINIC & MED SPA CORRIDOR - EXIT	3'-0"	7'-0"	0'-1 5/8"	SW	NON	AF-GP	ALUM/GL	ANODIZED	HM	PAINTED	3	EGRESS DOOR
03	A	ELECTRICAL ROOM	3'-0"	7'-0"	0'-1 5/8"	SW	NON	F	HM	PAINTED	HM	PAINTED	3	PROVIDE PANIC HARDWARE
04	A	FIRE ROOM	3'-0"	7'-0"	0'-1 5/8"	SW	NON	F	HM	PAINTED	HM	PAINTED	4	
05	A	ASC CORRIDOR - EXIT	3'-0"	7'-0"	0'-1 5/8"	SW	NON	F	HM	PAINTED	HM	PAINTED	3	EGRESS DOOR
06	A	SERVICE DOOR	3'-0"	7'-0"	0'-1 5/8"	SW	NON	F	HM	PAINTED	HM	PAINTED	4	
07	A	SERVICE DOOR	3'-0"	7'-0"	0'-1 5/8"	SW	NON	F	HM	PAINTED	HM	PAINTED	4	
08	A	SERVICE DOOR	3'-0"	7'-0"	0'-1 5/8"	SW	NON	F	HM	PAINTED	HM	PAINTED	4	
09	E	ASC DISCHARGE	6'-0"	7'-0"	0'-2"	SW	NON	AF-GP	ALUM/GL	ANODIZED	ALUM	ANODIZED	1	ENTRY/EGRESS DOOR
10a	D	ASC ENTRANCE	3'-0"	7'-0"	0'-1 3/4"	SW	NON	AF-GP	ALUM/GL	ANODIZED	ALUM	ANODIZED	2	ENTRY/EGRESS DOOR
10b	D	ASC ENTRANCE - VESTIBULE	3'-0"	7'-0"	0'-1 3/4"	SW	NON	AF-GP	ALUM/GL	ANODIZED	ALUM	ANODIZED	2	ENTRY/EGRESS DOOR
12														
Grand total: 12														

ABBREVIATION LEGEND

DOOR OPERATION

SW SWING
OH OVERHEAD
BF BIFOLD
PKT POCKET
SL SLIDING
BYP BYPASS

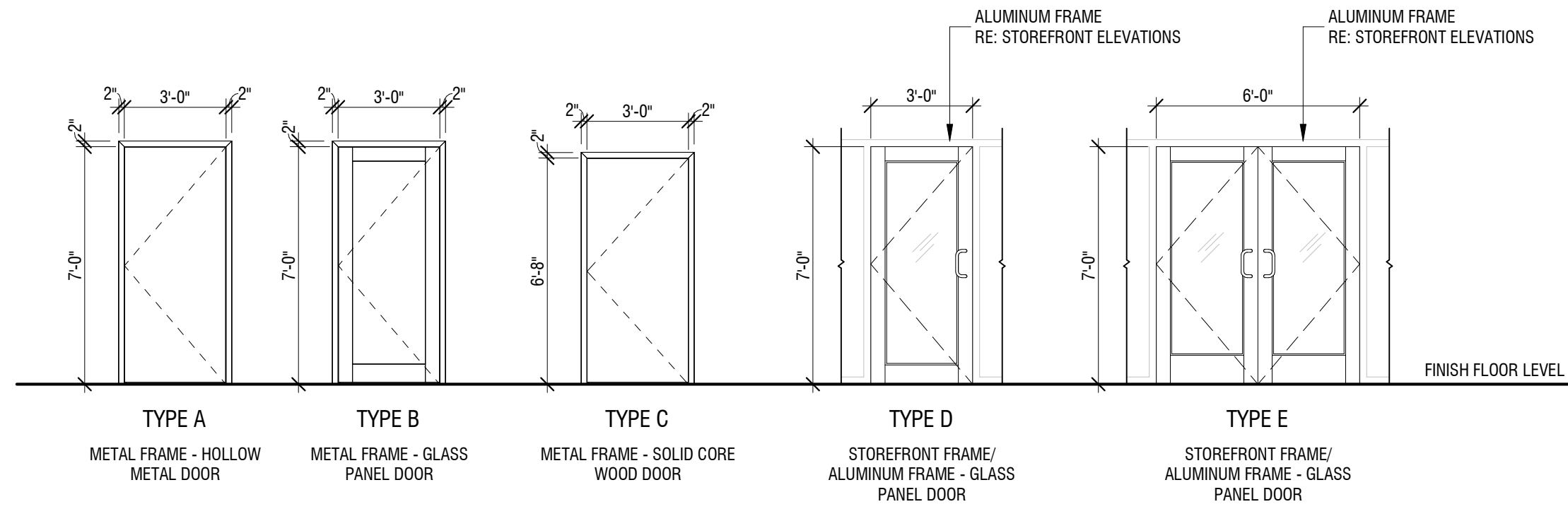
DOOR MATERIALS

WD WOOD
MTL METAL
SCW SOLID CORE WOOD
HCW HOLLOW CORE WOOD
HM HOLLOW METAL
ALUM ALUMINUM
GL GLASS

DOOR PANEL TYPE

F FLUSH PANEL
WF-GP WOOD FRAME/GLASS PANEL
AF-GP ALUMINUM FRAME/GLASS PANEL
MF-GP METAL FRAME/GLASS PANEL

DOOR ELEVATIONS



HARDWARE SCHEDULE:

SET 1
(6) BUTTS
(1) CARD READER LOCK SET
(1) FIRE EXIT/PANIC HARDWARE
(1) STOP CLOSER
THRESHOLD

SET 3
(3) BUTTS
(1) FIRE EXIT/PANIC HARDWARE
(1) STOP CLOSER
THRESHOLD

NOTES:
1. PROVIDE MISC. ASSOCIATED HARDWARE (SILENCERS, SWEEPS) AS REQUIRED.
2. INSTALL EACH HARDWARE ITEM TO COMPLY WITH THE MANUFACTURER'S INSTRUCTIONS.
3. PROVIDE DRIP FLASHING AT ALL EXTERIOR DOORS.
4. SET THRESHOLDS FOR EXTERIOR DOORS IN FULL BED OF BUTYL RUBBER OR POLYISOBUTYLENE SEALANT.

SET 2
(3) BUTTS
(1) CARD READER LOCK SET
(1) FIRE EXIT/PANIC HARDWARE
(1) STOP CLOSER
THRESHOLD

SET 4
(3) BUTTS
(1) STORAGE LOCK SET
(1) STOP CLOSER
THRESHOLD



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I-470 BUSINESS & TECHNOLOGY CENTER
NE McBAIN DRIVE
LEE'S SUMMIT, MISSOURI



03/07/2025

PROJECT NO. 231206

DRAWING ISSUANCE: JAN 28, 2025

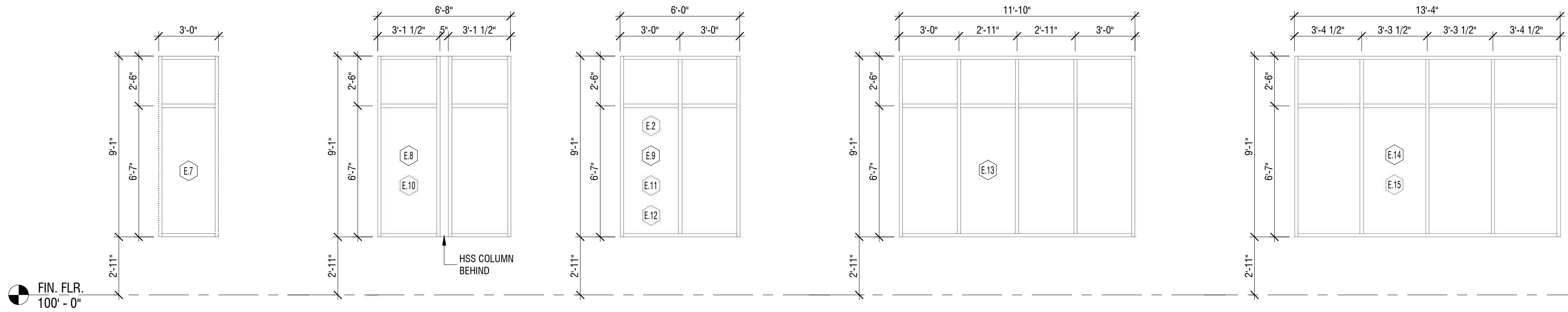
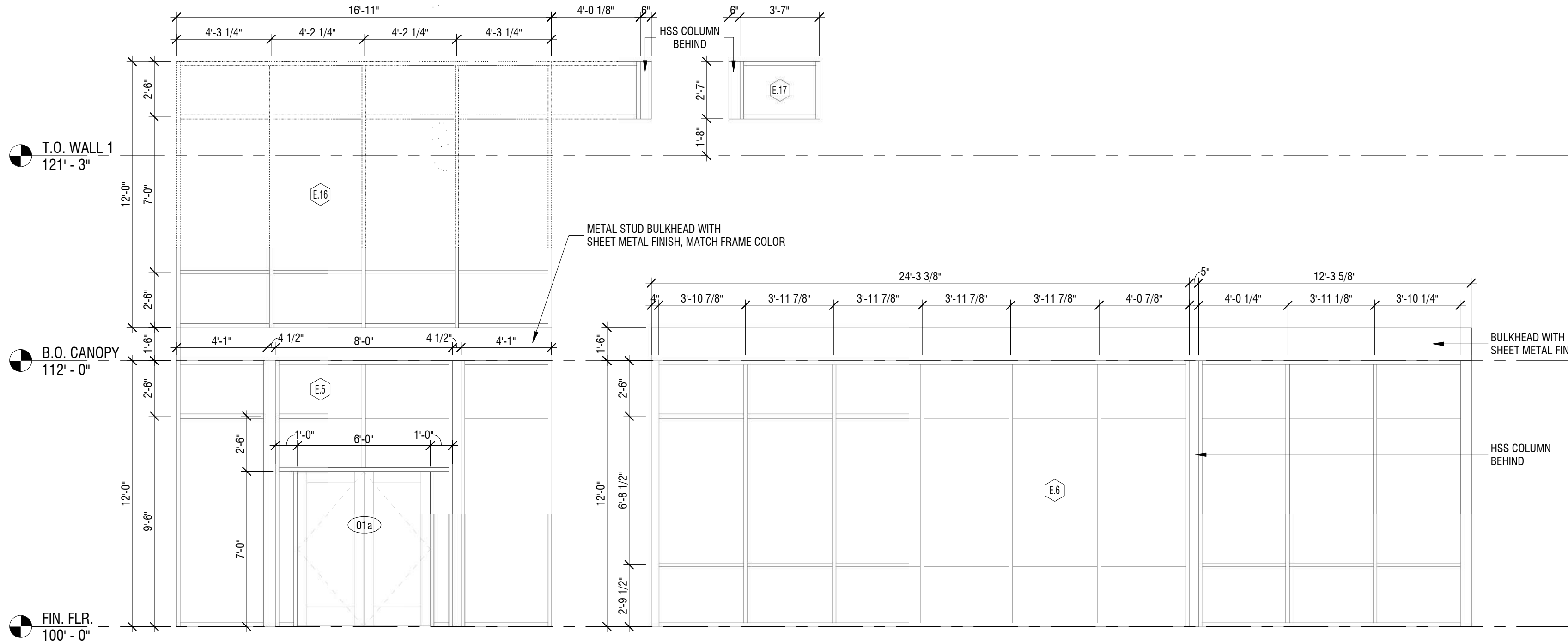
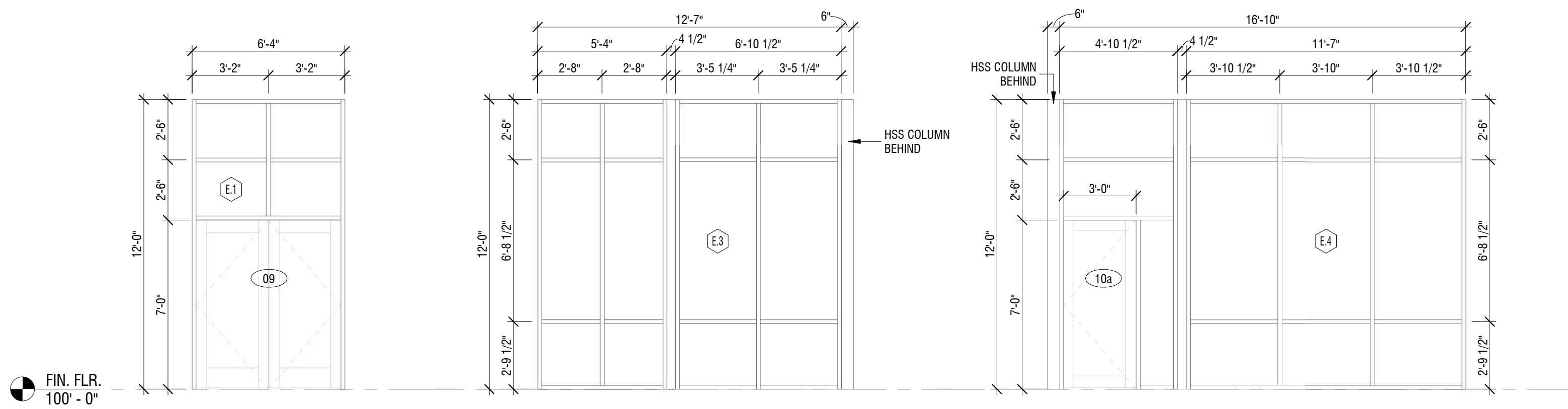
NO.	REVISION	DATE
1	Rev 01	03/07/2025

SHEET NUMBER

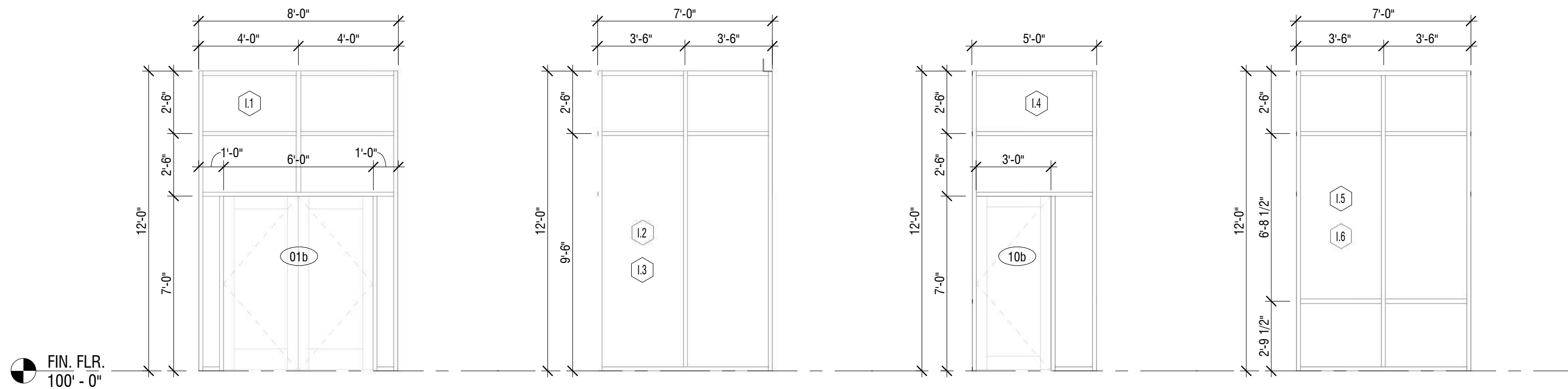
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DOOR & HARDWARE SCHEDULE

STOREFRONT ELEVATIONS - EXTERIOR



STOREFRONT ELEVATIONS - INTERIOR



STOREFRONT NOTES

- 1) RE- EXTERIOR FINISHING SCHEDULE FOR INFORMATION ON MATERIALS, SYSTEMS, AND COLORS
- 2) STOREFRONT TO BE INSTALLED PER MANUFACTURERS APPROVED PROCEDURES, METHODS AND APPLICABLE INDUSTRY STANDARDS
- 3) COORDINATE PLACEMENT OF ALL VENTS AND OTHER EXTERIOR ELEMENTS WITH LOCATIONS OF SCORE JOINTS (TYP.)
- 4) STOREFRONT GLAZING TO BE SUNGLARD-SUPERNEUTRAL 68
SOLAR HEAT GAIN COEFFICIENT 0.36
VISIBLE LIGHT TRANSMITTANCE 68%
U-VALUE 0.23

STOREFRONT SCHEDULE - EXTERIOR					
MARK	WIDTH	HEIGHT	SILL HEIGHT	TYPE MARK	REMARK

FIN. FLR.					
E.1	6' - 4"	12' - 0"	0' - 0"	SF	
E.2	6' - 0"	9' - 1"	2' - 11"	SF	
E.3	12' - 7"	12' - 0"	0' - 0"	SF	
E.4	17' - 0 1/4"	12' - 0"	0' - 0"	SF	
E.5	16' - 11"	12' - 0"	0' - 0"	SF	
E.6	37' - 0"	12' - 0"	0' - 0"	SF	
E.7	3' - 0"	9' - 1"	2' - 11"	SF	
E.8	6' - 8"	9' - 1"	2' - 11"	SF	
E.9	6' - 0"	9' - 1"	2' - 11"	SF	
E.10	6' - 8"	9' - 1"	2' - 11"	SF	
E.11	6' - 0"	9' - 1"	2' - 11"	SF	
E.12	6' - 0"	9' - 1"	2' - 11"	SF	
E.13	11' - 10"	9' - 1"	2' - 11"	SF	
E.14	13' - 4"	9' - 1"	2' - 11"	SF	
E.15	13' - 4"	9' - 1"	2' - 11"	SF	

B.O. CANOPY					
E.16	16' - 11"	12' - 0"	1' - 6"	SF	

T.O. WALL 1					
E.17	3' - 7"	2' - 7"	1' - 8"	SF	
Grand total: 17					

STOREFRONT SCHEDULE - INTERIOR					
MARK	WIDTH	HEIGHT	SILL HEIGHT	TYPE MARK	REMARK

FIN. FLR.					
I.1	8' - 4 1/2"	12' - 0"	0' - 0"	SF	
I.2	7' - 0"	12' - 0"	0' - 0"	SF	
I.3	7' - 0"	12' - 0"	0' - 0"	SF	
I.4	5' - 2 1/4"	12' - 0"	0' - 0"	SF	
I.5	7' - 0"	12' - 0"	0' - 0"	SF	
Grand total: 5					



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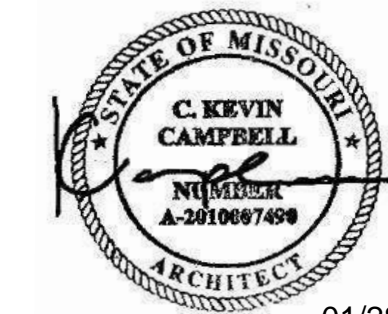
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01/28/2025

PROJECT NO. 231206

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NO. REVISION DATE

SHEET NUMBER

A6.1

STOREFRONT SCHEDULE

03. Abbreviation Schedule		
Abbreviation	Abbreviation Name	
+	PLUS OR MINUS	
ADDNL	ADDITIONAL	
ADJ	ADJACENT	
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL	
AFF	AFTER FINISHED FLOOR	
ALT	ALTERNATE	
AR	ANCHOR ROD	
ARCH	ARCHITECT OR ARCHITECTURAL	
BI	BOTTOM OF	
B/W	BETWEEN	
BLDG	BUILDING	
BLKG	BLOCKING	
BM	BEAM	
BOT	BOTTOM	
BRG	BEARING	
BWP	BRACED WALL PANEL	
CFS	COLD FORMED STEEL	
CHKD	CHECKED	
CIP	CAST IN PLACE	
CJ	CONTROL JOINT	
CJP	COMPLETE JOINT PENETRATION	
CL	CENTERLINE	
CLR	CLEAR	
COL	COLUMN	
CONC	CONCRETE	
CONN	CONNECTION	
CONT	CONTINUOUS	
CTR	CENTER	
db	DIA OF REINF BAR, DIA OF BOLT	
DBA	DEFORMED BAR ANCHOR	
DIA or Ø	DIAMETER	
DIAG	DIAGONAL	
DIR	DIRECTION	
DWL	DOWEL	
EA	EACH	
EE	EXTENDED END	
EJ	EXPANSION JOINT	
ELEV	ELEVATION	
EN	EDGE NAILING	
ENGR	ENGINEER	
EOD	EDGE OF DECK	
EOS	EDGE OF SLAB	
EQ	EQUAL	
EW	EACH WAY	
EXIST	EXISTING	
EXT	EXTERIOR	
FDN	FOUNDATION	
FLG	FLANGE	
FLR	FLOOR	
FS	FAR SIDE	
FTG	FOOTING	
FV	FIELD VERIFY	
GA	GAUGE	
GALV	GALVANIZED	
GB	GRADE BEAM	
GC	GENERAL CONTRACTOR	
HORIZ	HORIZONTAL	
HSA	HEADED STUD ANCHOR	
HSS	HOLLOW STRUCTURAL SECTION	
IF	INSIDE FACE	
INT	INTERIOR	
JST	JOIST	
K	KIPS (1000 LBS)	
LCE	COMPRESSION EMBEDMENT LENGTH	
LCS	COMPRESSION LAP SPICE LENGTH	
LLH	LONG LEG HORIZONTAL	
LLV	LONG LEG VERTICAL	
LSH	LONG SLOTTED HOLE	
LTE	TENSION EMBEDMENT LENGTH	
LTS	TENSION LAP SLICE LENGTH	
LW	LIGHTWEIGHT	
MFCR	MANUFACTURER	
MTL	METAL	
NC	NOT IN CONTRACT	
NS	NEAR SIDE	
NTS	NOT TO SCALE	
OC	ON CENTER	
OF	OUTSIDE FACE	
OPP	OPPOSITE	
OVS	OVERSIZED	
PIC	PRECAST	
PAF	POWDER ACTUATED FASTENER	
PAR	PARALLEL	
PEMB	PRE-ENGINEERED METAL BUILDING	
PEN	PENETRATION	
PERP	PERPENDICULAR	
PLT	PLATE	
PLF	POUNDS PER LINEAR FOOT	
PRFAB	PREFABRICATED	
PRELIM	PRELIMINARY	
PSF	POUNDS PER SQUARE FOOT	
PSI	POUNDS PER SQUARE INCH	
RC	REINFORCED CONCRETE	
RE	REFER TO	
REINF	REINFORCING	
REQD	REQUIRED	
RF	RIGID FRAME	
SC	SLIP CRITICAL	
SDS	SELF DRILLING SCREW	
SIM	SIMILAR	
SLV	SHORT LEG VERTICAL	
SOG	SLAB ON GRADE	
SQ	SQUARE	
SS	STAINLESS STEEL	
STD	STANDARD	
STIR	STIRRUPS	
STL	STEEL	
SW	SHEAR WALL	
SYM	SYMMETRIC	
T&B	TOP AND BOTTOM	
TI	TOP OF	
TRANS	TRANSVERSE	
TYP	TYPICAL	
UNO	UNLESS NOTED OTHERWISE	
VERT	VERTICAL	
W	WITH	
WO	WITHOUT	
WF	WIDE FLANGE	
WP	WORK POINT	
WWR	WELDED WIRE REINFORCEMENT	

STRUCTURAL DESIGN CRITERIA (2018 IBC AND ASCE 7-16):

1. BUILDING OCCUPANCY RISK CATEGORY II.

2. LIVE LOADS [UNIFORM (PSF) / POINT LOADS (KIPS)]:
- ROOF.....20 PSF / 300#
 - GROUND LEVEL SLAB.....100 PSF / 2.0 K
3. ROOF SNOW LOAD:
- GROUND SNOW LOAD (Pg).....20 PSF
 - FLAT ROOF SNOW LOAD (Pi).....22 PSF + DRIFT PER PLAN
 - MIN UNIFORM ROOF SNOW LOAD (Pm).....22 PSF (NO DRIFT OR RAIN)
 - RAIN ON SNOW SURCHARGE (Prs).....5.0 PSF
 - SNOW EXPOSURE FACTOR (Ce).....1.0, EXPOSURE C
 - SNOW LOAD IMPORTANCE FACTOR (Is).....1.0
 - THERMAL FACTOR (Ci).....1.1 (just above freezing)
 - SLOPE FACTOR (Cs).....1.0 (for ¼ per foot roots)

4. WIND DESIGN DATA:
- BASIC WIND SPEED (3 SEC GUST).....117 MPH
 - ASD WIND SPEED, (V(ASD)).....88 MPH
 - WIND EXPOSURE.....C
 - GROUND ELEVATION ABOVE SEA LEVEL.....987 FT
 - DIRECTIONALITY FACTOR (Kd).....0.85
 - INTERNAL PRESSURE COEFF.....0.18

5. EARTHQUAKE DESIGN DATA:
- SEISMIC IMPORTANCE FACTOR (Ie).....1.25
 - MAPED SPECTRAL RESP ACCEL (Sa / S1).....0.17 / 0.068
 - SITE CLASS.....C
 - SPECTRAL RESPONSE COEFF (Sds / Sd1).....0.107 / 0.109
 - SEISMIC DESIGN CATEGORY.....B
 - SEISMIC FORCE RESISTING SYSTEM.....R=3, STEEL
 - DESIGN BASE SHEAR.....12 K (ELF AND ASD)
 - SEISMIC RESPONSE COEFF (Cs).....0.049
 - ANALYSIS PROCEDURE.....ELF

6. RAIN LOAD DATA:
- 15-MIN RAIN INTENSITY.....8.31 IN/HR
 - 60-MIN RAIN INTENSITY.....3.92 IN/HR
- DESIGN ASSUMES APPROPRIATE ROOF SLOPE AND DRAINAGE (INCLUDING OVERFLOWS) ARE PROVIDED. ROOF IS DESIGNED FOR LIVE LOAD INDICATED ABOVE

STRUCTURAL GENERAL NOTES:

1. DESIGN AND CONSTRUCTION SHALL CONFORM TO THE "INTERNATIONAL BUILDING CODE, 2018 EDITION" AS AMENDED BY THE CITY OF LEE'S SUMMIT, MO. REFER TO THE SPECIAL STRUCTURAL INSPECTION NOTES FOR ADDITIONAL REQUIREMENTS.

2. CONTRACTOR TO VERIFY ALL DIMENSIONS, ELEVATIONS AND EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO COMMENCING WORK.

3. IF DISCREPANCIES EXIST BETWEEN STRUCTURAL PLANS, ARCHITECTURAL PLANS, OTHER PLANS, OR SPECIFICATIONS, THE CONTRACTOR OR SUBCONTRACTOR SHALL PROVIDE A WRITTEN REQUEST FOR CLARIFICATION FROM THE ARCHITECT AND/OR ENGINEER PRIOR TO PROCEEDING WITH THE WORK.

4. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. IT IS SOLELY THE CONTRACTORS RESPONSIBILITY TO EXECUTE AND DETERMINE FINAL ERECTION PROCEDURES, SEQUENCING AND TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES WHATEVER SHORING, SHEETING, TEMPORARY BRACING, GUYING OR TIE DOWNS WHICH MIGHT BE NECESSARY.

5. THE STRUCTURE AND FOUNDATIONS ARE NOT DESIGNED FOR FUTURE EXPANSION.

6. FABRICATORS AND SUPPLIERS SHALL CLEARLY NOTE AND HIGHLIGHT CHANGES MADE IN SHOP DRAWINGS, WHICH DO NOT COMPLY WITH THE CONTRACT DOCUMENTS.

7. COLUMNS, BEAMS, JOISTS, OR TRUSSES SHALL NOT BE FIELD CUT OR TRIMMED FOR ANY REASON WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.

8. HOLES, PIPES, SLEEVES, ETC. NOT SHOWN ON THE DRAWINGS MUST BE REVIEWED BY THE ARCHITECT/ENGINEER BEFORE PLACEMENT THROUGH STRUCTURAL MEMBERS.

9. IF MECHANICAL AND ELECTRICAL EQUIPMENT SIZES, WEIGHTS, OR LOCATIONS DO NOT COINCIDE WITH EQUIPMENT SHOWN ON THE PLANS, COORDINATE ADJUSTMENTS WITH THE ARCHITECT.

10. NO AREA OF THE STRUCTURE SHALL BE LOADED WITH CONSTRUCTION MATERIALS OR EQUIPMENT THAT EXCEEDS FINAL DESIGN CRITERIA.

11. BEAMS, COLUMNS, WALLS AND FOOTING CENTERS SHALL BE CENTERED UNDER SUPPORTING MEMBERS (TYPICAL UNLESS NOTED OTHERWISE).

12. DELEGATED DESIGN - DEFERRED SUBMITTALS MUST BE SIGNED/ SEALED PRIOR TO SUBMITTAL FOR REVIEW. THESE INCLUDE:
- A. STRUCTURAL STEEL CONNECTIONS

- SUBMIT THESE SHOP DRAWINGS AND CALCULATIONS SEALED BY A STRUCTURAL ENGINEER LICENSED TO PRACTICE IN THE JURISDICTION OF THE PROJECT SHALL BE FURNISHED TO THE ENGINEER OF RECORD FOR REVIEW. CONTRACTOR SHALL SUBMIT COPIES OF DEFERRED SUBMITTALS TO BUILDING DEPARTMENT AFTER ARCH/ENG REVIEW.

13. TYPICAL DETAILS ARE SHOWN ON SHEETS DESIGNATED "S0XX". THE INCLUDED TYPICAL DETAILS MAY OR MAY NOT BE CUT / REFERENCED ON PLANS OR SECTIONS, BUT ARE TO BE USED AS APPLICABLE

SUBMITTALS:

1. GENERAL CONTRACTOR TO PROVIDE A SHOP DRAWING SUBMITTAL LOG AND SUBMITTAL SCHEDULE ITEMIZING ALL PROPOSED SUBMITTALS FOR APPROVAL BY STRUCTURAL ENGINEER OF RECORD.

2. ALL SHOP DRAWINGS SHALL BE CHECKED BY THE FABRICATOR AND APPROVED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTAL TO THE STRUCTURAL ENGINEER OF RECORD. SHOP DRAWING REVIEW BY ENGINEER IS LIMITED TO VERIFYING GENERAL CONFORMANCE TO THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR ANY CHANGES FROM THE CONTRACT DOCUMENTS, DIMENSIONAL ERRORS, COORDINATION ERRORS, OR OMISSIONS IN SHOP DRAWINGS. FOR IS NOT RESPONSIBLE FOR ANY DELAYS CAUSED BY THESE REQUIREMENTS NOT BEING MET.

3. SHOP DRAWINGS SHALL INCLUDE CONNECTIONS AS WELL AS SIZE, SPACING, AND GRADE OF ALL MEMBERS AND MATERIALS. PLANS AND ANY DETAILING NECESSARY FOR DETERMINING FIT AND PLACEMENT SHALL ALSO BE INCLUDED.

4. ANY CHANGES TO THE STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT AND ARE SUBJECT TO REVIEW AND APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD PRIOR TO RELEASE FOR FABRICATION AND CONSTRUCTION.

5. DESIGN DRAWINGS, SHOP DRAWINGS, AND CALCULATIONS FOR THE DESIGN AND FABRICATION OF ITEMS THAT ARE DESIGNED BY THE CONTRACTOR SHALL BEAR THE SEAL AND SIGNATURE OF AN ENGINEER REGISTERED IN THE APPROPRIATE STATE AND SHALL BE SUBMITTED TO THE ARCHITECT / ENGINEER PRIOR TO FABRICATION AND CONSTRUCTION. CALCULATIONS SHALL BE INCLUDED FOR ALL CONNECTIONS TO THE STRUCTURE, CONSIDERING LOCALIZED EFFECTS ON STRUCTURAL ELEMENTS INDUCED BY THE CONNECTION LOADS. ITEMS THAT ARE DESIGNED BY THE CONTRACTOR SHALL BE DESIGNED TO RESIST THE LIVE LOADS INDICATED IN STRUCTURAL NOTES, DEAD LOAD, SELF WEIGHT, ANY ADDITIONAL LOADING INDICATED ON PLANS AND DETAILS, SNOW DRIFT, AND A NET WIND UPLIFT. THESE ITEMS DESIGNED BY THE CONTRACTOR SHALL INCLUDE ANY RELEVANT TECHNICAL LITERATURE FROM THE MANUFACTURER, SUCH AS ICC-ES REPORTS DEMONSTRATING CODE COMPLIANCE.

6. FIELD ENGINEERED DETAILS DEVELOPED BY THE CONTRACTOR THAT DIFFER FROM OR ADD TO THE STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT AND ARE SUBJECT TO REVIEW AND APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD PRIOR TO RELEASE FOR FABRICATION AND CONSTRUCTION.

7. UNLESS DICTATED OTHERWISE BY THE CONTRACT DOCUMENTS, THE ENGINEER SHALL HAVE A MINIMUM OF 10 WORKING DAYS FROM RECEIPT OF SHOP DRAWINGS FOR REVIEW AND SHALL HAVE A MINIMUM OF 3 WORKING DAYS FOR RFI RESPONSES.

8. SEE MATERIAL SPECIFIC SECTIONS IN THE GENERAL NOTES FOR REQUIRED SHOP DRAWINGS AND CALCULATIONS TO BE SUBMITTED.

SPECIAL INSPECTIONS:

1. PROVIDE SPECIAL STRUCTURAL INSPECTIONS AND VERIFICATIONS BY A THIRD PARTY MEETING THE REQUIREMENTS OF CHAPTER 17 OF THE BUILDING CODE AND THE BUILDING OFFICIAL.

2. SPECIAL INSPECTORS SHALL BE QUALIFIED AND FURNISH THEIR REPORTS IN A TIMELY MANNER TO THE CONTRACTOR, BUILDING OFFICIALS, ARCHITECT, AND/OR ENGINEER

3. SHOULD INSPECTOR IDENTIFY ANY DISCREPANCY, THEY SHALL NOTIFY CONTRACTOR FIRST, AND THEN ARCH/ENGINEER IMMEDIATELY THEREAFTER IF CORRECTIVE ACTION IS NEEDED.

4. SPECIAL INSPECTIONS AS REQUIRED BY CODE:
- A. STEEL: SECTION 1705.2. AND AISC 360. PERIODIC OBSERVATIONS OF CONNECTION, ALL BRACED-FRAME CONNECTIONS, WELDERS & FIELD WELDING.
 - B. CONCRETE: SECTION 1705.3 AND TABLE 1705.3. CONCRETE MATERIAL SAMPLING AND TESTING, REBAR OBSERVATIONS, TAKE SET OF (3) CYLINDERS FOR EVERY 50 C.Y., BUT NOT LESS THAN ONE SET OF SAMPLES PER DAY'S WORK AND PER MIX.
 - C. SOILS: SECTION 1705.6. FOUNDATION BEARING, EXCAVATION, FILL PLACEMENT.
 - D. POST-INSTALLED ANCHORS: TABLE 1705.3

EARTHWORK AND FOUNDATIONS:

1. REFERENCE THE GEOTECHICAL INVESTIGATION PREPARED BY ALPHA OMEGA GEOTECH, INC DATED JUNE 7, 2024 (JOB NO. 240117 E). THE CONTRACTOR SHALL OBTAIN A COPY OF THIS REPORT AND FOLLOW ALL RECOMMENDATIONS WITHIN.

2. PERIMETER AND EXTERIOR FOOTINGS SHALL BEAR AT A MINIMUM OF 3'-0" BELOW ADJACENT GRADE.

3. ALL FOOTINGS SHALL BEAR ON FIRM NATIVE MATERIALS, COMPACTED OR ENGINEERED FILL CAPABLE OF SUPPORTING AN ALLOWABLE BEARING PRESSURE OF 2,500 PSF (3,000 PSF AT INDIVIDUAL COLUMN FOOTINGS) PER THE GEOTECHNICAL REPORT. DEEPEEN FOOTINGS, AND REMOVE AND REPLACE UNACCEPTABLE SOILS WITH ENGINEERED FILL AS REQUIRED TO PROVIDE THIS MINIMUM DEPTH AND SUITABLE BEARING.

4. UNDERCUT THE PAD TO A DEPTH OF 24-INCHES BELOW BOTTOM OF FLOOR SLAB ELEVATION AND REPLACE WITH LOW-VOLUME-CHANGE MATERIALS PER THE GEOTECHNICAL REPORT.

5. FILL PLACEMENT, COMPACTION, AND SOIL BEARING TESTS SHALL BE PERFORMED BY A GEOTECHNICAL ENGINEER PRIOR TO INSTALLING FOOTINGS TO ENSURE DESIGN ALLOWABLE BEARING VALUES AND SLAB SUBGRADE REQUIREMENTS ARE SATISFIED. IF ACTUAL SITE CONDITIONS DO NOT SATISFY THESE REQUIREMENTS, COORDINATE ADJUSTMENTS WITH ARCHITECT/ENGINEER/ GEOTECHNICAL ENGINEER

6. SURFACE WATER SHALL NOT BE ALLOWED TO STAND ADJACENT TO OR DRAIN TOWARDS THE FOUNDATION AND SLAB SUBGRADES UNDER ANY CIRCUMSTANCES. PAVEMENTS OR GRADED SOILS AT THE PERIMETER OF THE BUILDING, EXCEPT AS REQUIRED AT EXITS OR AS NOTED, SHALL BE SLOPED AWAY AT 5% OR 6" MIN FOR THE FIRST TEN FEET AND AS REQUIRED TO PROVIDE POSITIVE DRAINAGE.

7. FOOTINGS MAY BE POURED TO NEAT LINES OF EXCAVATIONS PROVIDING VERTICAL LINES OF EXCAVATIONS CAN BE MAINTAINED DURING CONCRETE PLACEMENT.

8. FOUNDATION WALL BACKFILL SHALL NOT BE UNBALANCED BY MORE THAN TWO FEET ON EITHER SIDE AT ANY TIME. BASEMENT WALL AND RESTRAINED RETAINING WALL BACKFILL SHALL NOT BE PLACED, UNLESS THE WALL IS ADEQUATELY BRACED. RETAINING WALL AND BASEMENT WALL BACKFILL SHALL BE FREE DRAINING GRANULAR BACKFILL ACCEPTABLE TO THE GEOTECHNICAL ENGINEER.

9. DO NOT PLACE CONCRETE UNLESS FOOTING EXCAVATIONS ARE FREE OF ALL WATER, FROST, ICE AND LOOSE SOIL. CONCRETE SHALL BE PLACED AS SOON AS POSSIBLE AFTER EXCAVATION SO THAT EXCESSIVE DRYING OF BEARING MATERIALS DOES NOT OCCUR. BEARING MATERIAL SHALL BE INSPECTED BY A QUALIFIED INDEPENDENT TESTING LAB PRIOR TO PLACEMENT OF CONCRETE.

CONCRETE REINFORCING STEEL:

1. SUBMIT SHOP DRAWINGS FOR REBAR. ALL REINFORCING BARS SHALL MEET ASTM A615 GRADE 60.
2. ALL WELDED WIRE REINFORCEMENT (WWR) SHALL MEET ASTM A1064: LAP A MINIMUM OF 8" OR ONE FULL MESH, WHICHEVER IS GREATER.
3. REINFORCING BAR QUANTITIES SHOWN ARE FOR ESTIMATING PURPOSES ONLY.

4. MAINTAIN MINIMUM CONCRETE PROTECTION OR COVER FOR REINFORCING AS INDICATED, UNLESS NOTED OTHERWISE:
- A. 3" CLEAR WHERE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH GROUND.
 - B. 2" CLEAR WHERE CONCRETE IS EXPOSED TO WEATHER OR IN CONTACT WITH GROUND BUT CAST AGAINST FORMS FOR BARS LARGER THAN #5.
 - C. 1 ½" CLEAR WHERE CONCRETE IS EXPOSED TO WEATHER OR IN CONTACT WITH GROUND BUT CAST AGAINST FORMS FOR BARS #5 OR SMALLER.
 - D. ½" CLEAR FOR SLABS, JOISTS AND WALLS NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND.
 - E. 1 ½" CLEAR FOR BEAMS AND COLUMNS NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND.

5. CONTRACTOR SHALL VERIFY THAT ALL REINFORCEMENT, SLAB DOWELS, INSERTS, SLEEVES AND EMBEDDED ITEMS ARE PROPERLY LOCATED AND RIGIDLY SECURED PRIOR TO CONCRETE PLACEMENT, "WET STICKING" DOWELS WILL NOT BE ALLOWED.

6. REINFORCEMENT SHALL BE DETAILED IN ACCORDANCE WITH THE LATEST A.C.I. DETAILING MANUAL BY A QUALIFIED AND EXPERIENCED FIRM AND PERSON. PLACE AND SUPPORT REINFORCEMENT WITH ACCESSORIES: MAXIMUM SPACING- 48" CENTERS (PLASTIC-TIPPED LEGS FOR EXPOSED SURFACES), USE 3" SBP SUPPORTS AT ALL FOOTINGS.

7. ALL STRUCTURAL ADHESIVE FOR REINFORCING SHALL BE SIMPSON SET-3G OR HILTI HIT-HY 200-R OR EQUIVALENT. ALL STRUCTURAL ADHESIVE SHALL BE INSTALLED PER THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS. SUBSTITUTIONS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL WITH APPROPRIATE ICC-ES EVALUATION REPORTS.

CAST IN PLACE CONCRETE:

1. SUBMIT PROPOSED MIXED DESIGNS OF EACH TYPE FOR REVIEW. REQUIRED MINIMUM CONCRETE COMPRESSIVE STRENGTHS AT 28 DAYS:

- a. FOOTING AND GRADE BEAM CONCRETE.....4000 PSI
- b. BASEMENT / FOUNDATION WALL CONCRETE.....4000 PSI
- c. SLAB ON GRADE.....4000 PSI

2. ALL CONCRETE MIX DESIGNS SHALL HAVE WATER TO CEMENT RATIOS LESS THAN 0.52 (0.45 FOR MOISTURE SENSITIVE FLOORING), WITH A MAXIMUM 60/40 FINE TO COARSE AGGREGATE RATIO. CONCRETE MIX DESIGNS THAT DO NOT CONFORM TO THE ABOVE STANDARD AND/OR CONTAIN WATER REDUCING ADMIXTURES SHALL BE SUBMITTED WITH APPROPRIATE TEST DATA PER A C.I. ALL CONCRETE SHALL BE IN CONFORMANCE WITH THE A.C.I. 301 STANDARD THAT IS REFERENCED IN THE BUILDING CODE AT THE TIME OF PERMITTING THE PROJECT..

3. EXTERIOR CONCRETE (FLOOR SLABS, WALLS, ETC) SHALL HAVE: 6.5% (PLUS/MINUS 1.5%) ENTRAINED AIR.

4. CHAMFER ALL EXPOSED CONCRETE EDGES 3/4" (VERIFY WITH ARCHITECT).

5. NO ALUMINUM SHALL BE EMBEDDED IN ANY CONCRETE.

6. NO CALCIUM CHLORIDE SHALL BE USED IN CONCRETE

7. THE DESIGN, CONSTRUCTION, AND SAFETY OF ALL FORMWORK IS THE RESPONSIBILITY OF THE CONTRACTOR

8. ALL CONCRETE IS REINFORCED UNLESS SPECIFICALLY NOTED AS UNREINFORCED. REINFORCE ALL CONCRETE NOT OTHERWISE SHOWN WITH THE SAME REINFORCING AS SIMILAR SECTIONS OR AREAS.

9. CONSTRUCTION JOINTS IN GRADE BEAMS, CONTINUOUS FOOTINGS, AND WALLS THAT DO NOT CHANGE DIRECTION SHALL BE SPACED NO GREATER THAN 60'-0". INTERMEDIATE CONTROL JOINTS SHALL BE SPACED AT 25'-0" MAX FOR WALLS. CONTROL JOINTS IN WALLS SHALL ALSO BE LOCATED 15'-0" FROM CORNERS AND AT CHANGES IN WALL THICKNESS

10. WHERE FRESH CONCRETE IS DEPOSITED AGAINST HARDENED CONCRETE (GREATER THAN 8 HRS OLD), CLEAN EXISTING SURFACE OF LAITANCE AND FOREIGN MATERIAL AND DAMPEN THE EXISTING SURFACE. IF REQUIRED, ROUGHEN EXISTING CONCRETE TO 1/4" AMPLITUDE.

11. SLABS ON GRADE SHALL BE 4" THICK MINIMUM ON 4" OF GRANULAR FILL. REINF SLAB WITH 6 X 6 W/2.1 W/2.1 WWR OR #3 BARS @ 18" OC EA WAY. PLACE REINF IN UPPER 1/3 OF SLAB THICKNESS. AT INTERIOR SLABS, A 10 MIL VAPOR BARRIER SHALL BE PLACED BETWEEN THE CONCRETE AND GRANULAR BASE AND CARE SHOULD BE TAKEN DURING CURING TO PREVENT SLAB CURLING. THIS NOTE SHALL BE TYPICAL UNLESS NOTED OTHERWISE

12. SAW CUT JOINTS OR KEVED CONSTRUCTION JOINTS IN SLABS ON GRADE SHALL BE SPACED TO DIVIDE THE SLAB INTO PANELS NOT TO EXCEED 225 SQUARE FEET. THE LONGER DIMENSION OF EACH PANEL SHALL NOT EXCEED THE SHORTER DIMENSIONS BY MORE THAN 40%. JOINTS SHALL BE LOCATED AT COLUMN CENTERLINES WHERE POSSIBLE. SPACING BETWEEN JOINTS SHALL NOT EXCEED 15 FEET. CONTRACTOR SHALL SUBMIT JOINT LAYOUT TO ARCHITECT FOR APPROVAL. REFER TO TYPICAL DETAILS.

13. REINFORCEMENT SHALL BE CONTINUOUS AND LAPPED PER TYPICAL DETAIL (2'-4" MIN) EXCEPT AS NOTED AND PROVIDE CORNER BARS OF SAME SIZE AND SPACING.

14. MINIMUM CONCRETE WALL REINFORCING (WALL 10" OR GREATER) SHALL BE #4 AT 10" CENTERS EACH WAY, EACH FACE

15. MINIMUM REINFORCING AROUND CONCRETE WALL OPENINGS 2'-0" OR GREATER (TYPICAL UNLESS NOTED): 2- #5, EXTEND REINF 2'-0" PAST OPENINGS. PROVIDE 2-#5 x 4'-0" DIAGONAL BARS AT CORNERS

16. CONTRACTOR SHALL COORDINATE ALL CURING COMPOUNDS WITH FLOOR FINISH REQUIREMENTS TO ENSURE COMPATIBILITY.

17. FOUNDATION CONTRACTOR TO ENSURE PROPER ANCHOR ROD PROJECTION AND THAT ANCHOR RODS ARE HELD SECURELY IN POSITION PRIOR TO CONCRETE PLACEMENT. INSTALL ANCHOR RODS TO THE STRICT DIMENSIONAL TOLERANCES PER AIS REQUIREMENTS. STRUCTURAL STEEL COLUMN ANCHOR RODS SHALL BE SET WITH A RIGID TEMPLATE.

18. AGGREGATES AND/OR CONCRETE MIXES SHALL BE CERTIFIED TO BE FREE OF AND ELIMINATE DAMAGE OF CONCRETE DUE TO ALCAL-SILICA REACTION OR ALCAL-AGGREGATE REACTIONS WHEN EXPOSED TO SOILS AND/OR AN EXTERIOR ENVIRONMENT.

19. ALL CONCRETE MIX DESIGNS EXPOSED TO AN EXTERIOR ENVIRONMENT SHALL MEET THE REQUIREMENTS OF THE KANSAS CITY METRO MATERIALS BOARD (KCMMB) OR THE JOHNSON COUNTY CONCRETE BOARD (JCCB).

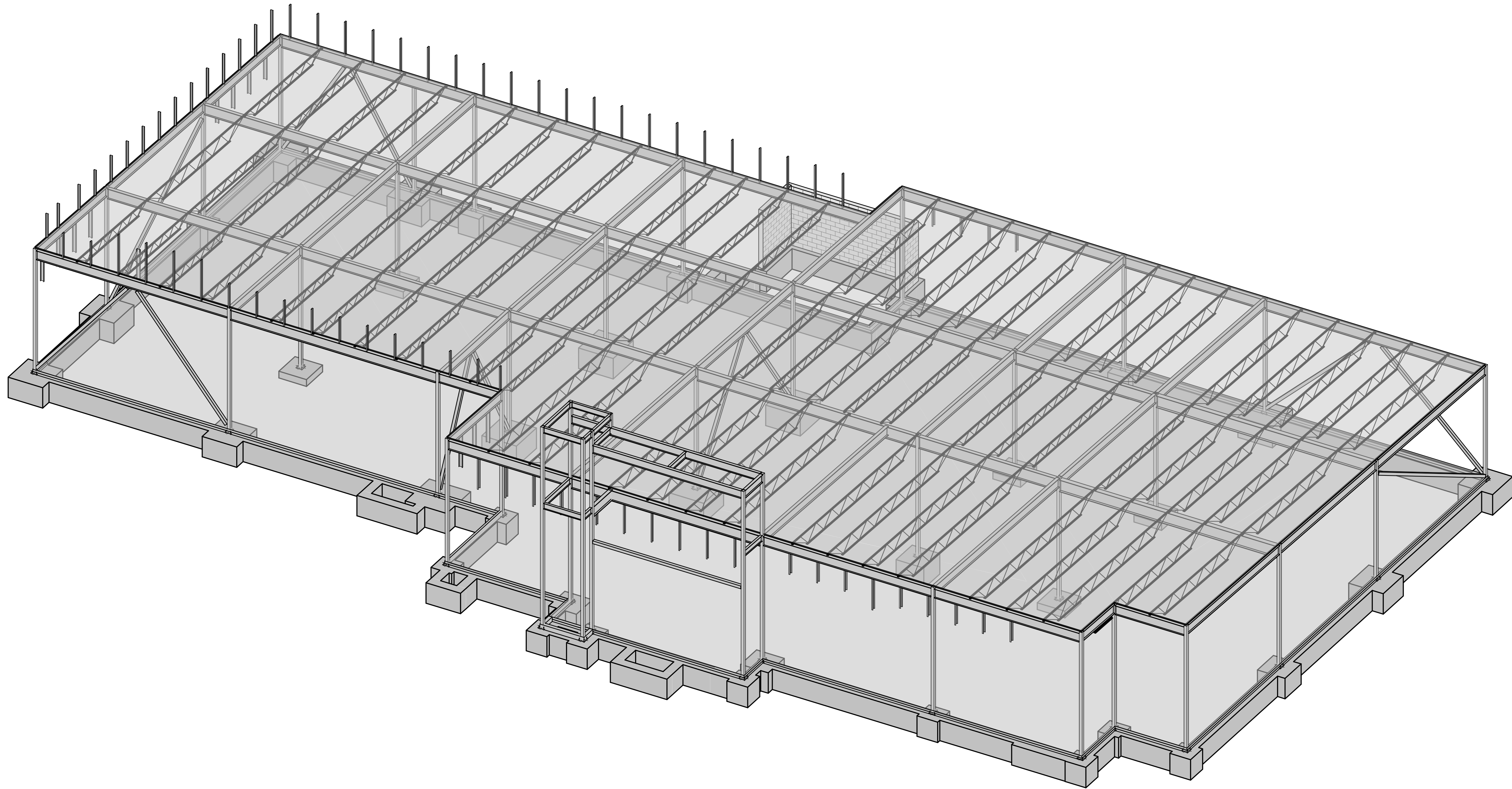
STRUCTURAL STEEL:

1. STRUCTURAL STEEL SHAPES AND PLATE MATERIAL REQUIREMENTS (TYPICAL UNLESS NOTED OTHERWISE):

- a. WIDE FLANGE SHAPES - ASTM A992 (FY = 50 KSI MIN.)
- b. CHANNELS, ANGLES, AND PLATES - ASTM A36 (FY = 36 KSI MIN)
- c. ROUND HSS - ASTM A500, GR B (FY = 42 KSI)
- d. RECTANGULAR HSS - ASTM A500, GR B (FY = 46 KSI)
- e. PIPE - ASTM A53, GR B (FY = 35 KSI)
- f. ANCHOR RODS - ASTM F1554 (FY = 36 KSI MIN.)
- g. ADHESIVE ANCHORS - SIMPSON SET-3G, HILTI HIT-HY 200, OR EQUIVALENT

2. STRUCTURAL STEEL SHALL BE NEW AND MEET THE 15TH EDITION A.I.S.C. "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS AND BRIDGES", AND THE

1 3D - VIEW



A NEW BUILDING FOR:

ASSOCIATED PLASTIC SURGEONS

I-470 BUSINESS & TECHNOLOGY CENTER
NE McBAIN DRIVE
LEE'S SUMMIT, MISSOURI



01/28/25

PROJECT NO. 231206

01/28/2025

NO.	REVISION	DATE

SHEET NUMBER

S002

STRUCTURAL 3D VIEW



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ASSOCIATED PLASTIC SURGEONS

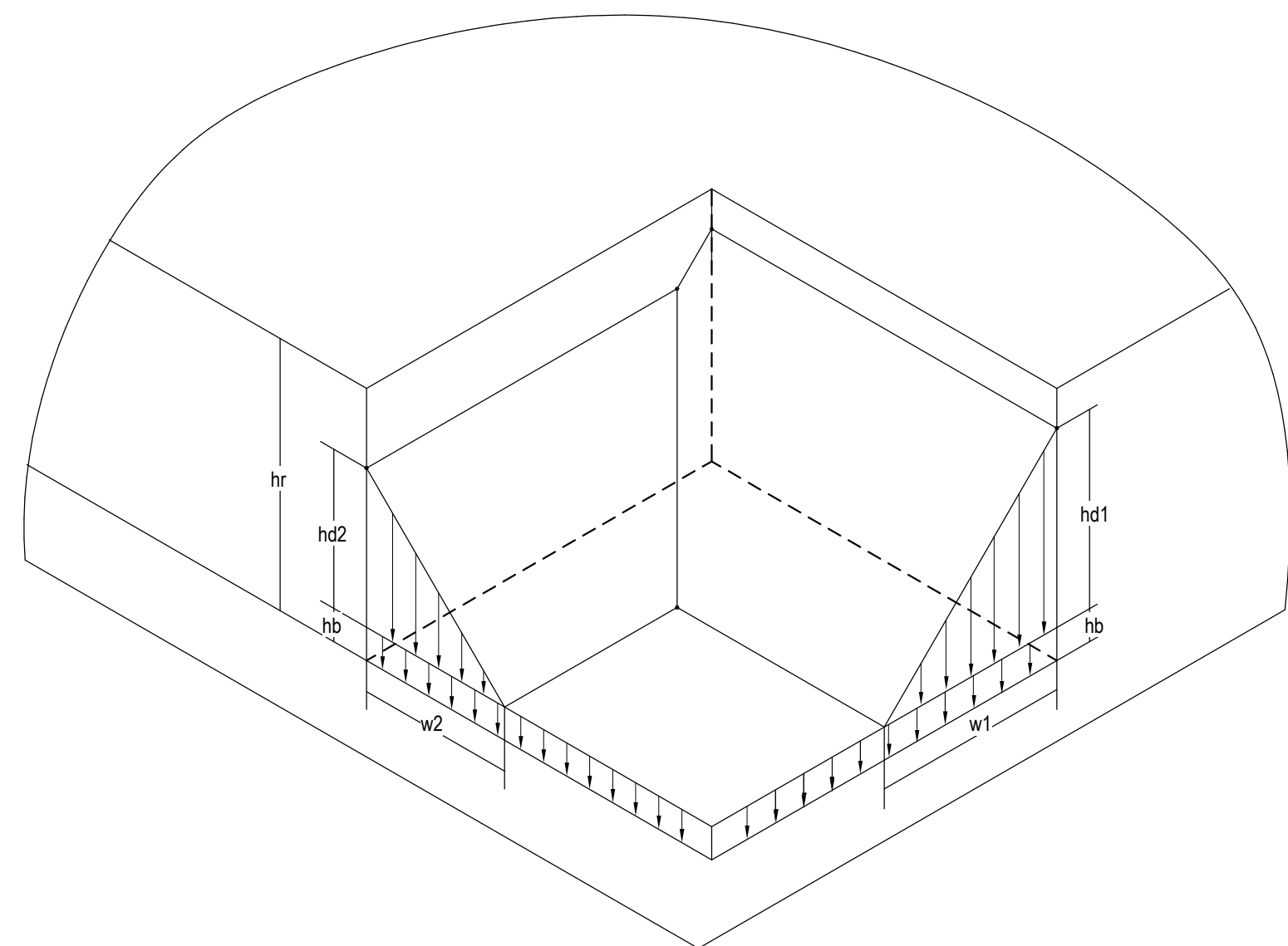
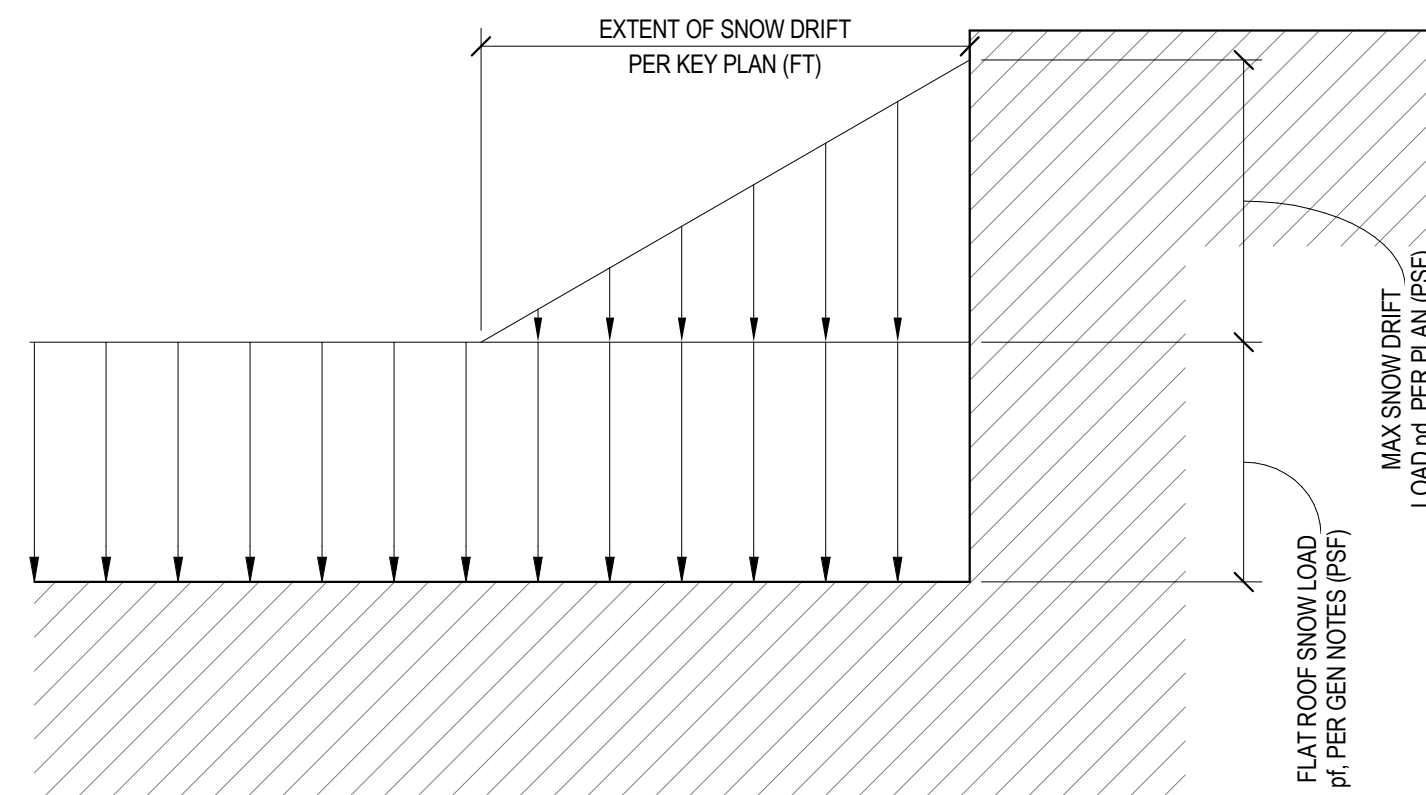
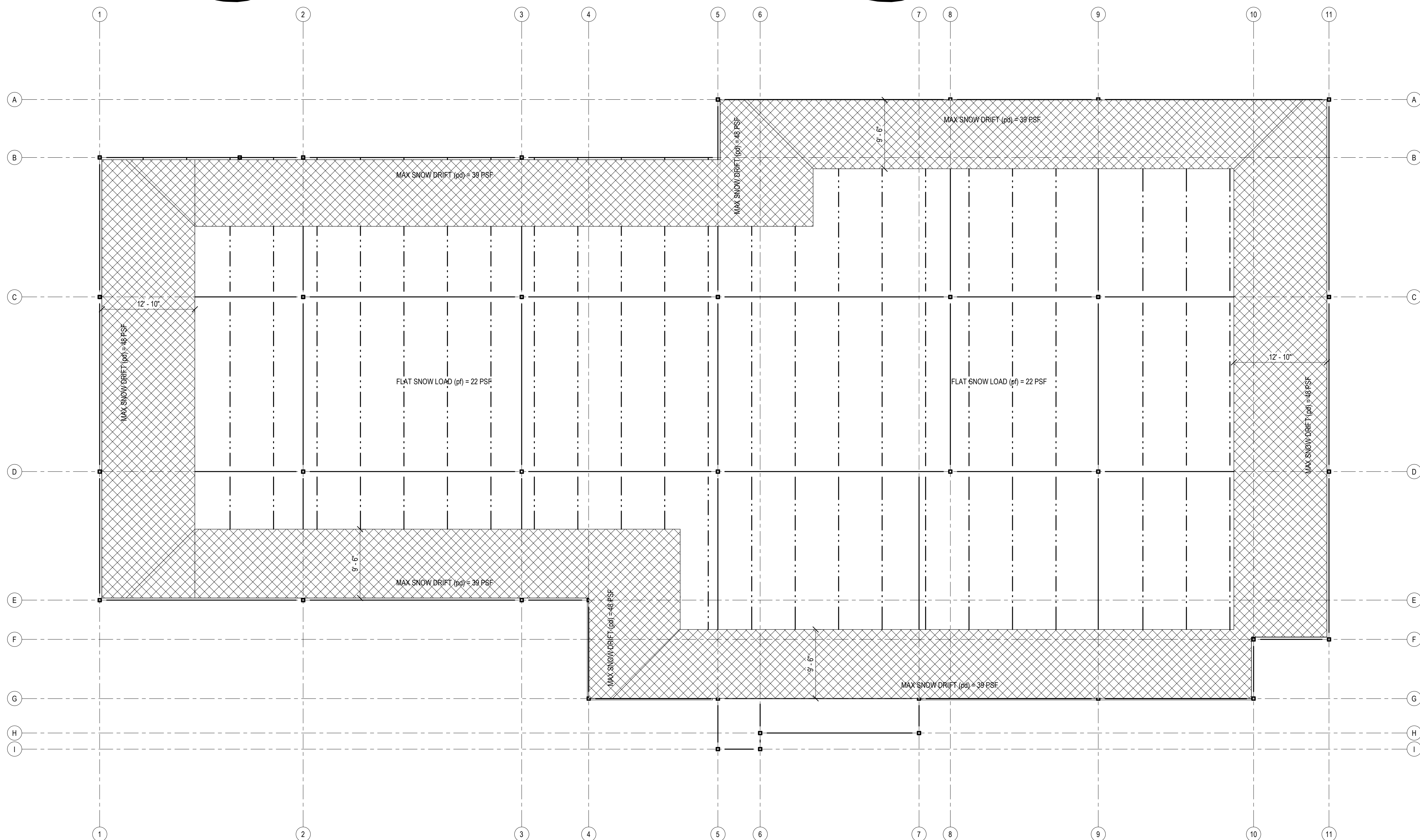
1470 BUSINESS & TECHNOLOGY CENTER
ONE MCBAIN DRIVE
LEE'S SUMMIT, MISSOURI



10. REVISION

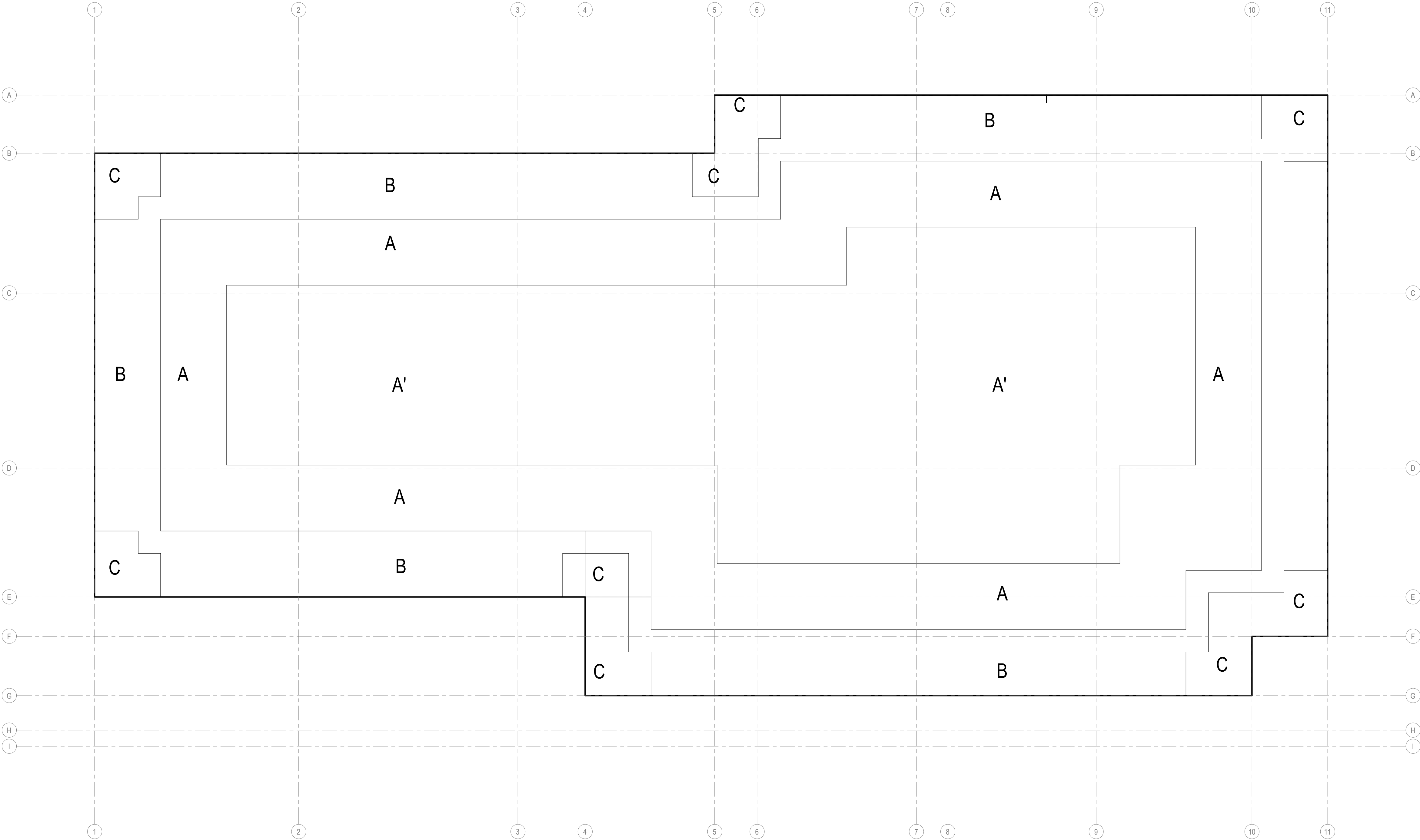
S003

STRUCTURAL LOADING - SNOW


$$1/2'' = 1'-0''$$

$$\frac{3}{4}'' = 1'-0''$$

$$1/8'' = 1'-0''$$

STRUCTURAL LOADING - SNOW

C&C WIND LOADING PRESSUES					
ZONE	POS (PSF)	NEG (PSF)	ALLOWABLE REDUCTION		
			100 SF	200 SF	500 SF
A'	16	16	1	1	1
A	16	46	0.8	0.8	0.8
B	27	61	0.85	0.8	0.75
C	27	61	0.85	0.8	0.75



1 C&C WIND PRESSURE
1/8" = 1'-0"



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Dev Anand
President & CEO

Kevin Campbell
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A NEW BUILDING FOR:

ASSOCIATED PLASTIC SURGEONS

I-470 BUSINESS & TECHNOLOGY CENTER
NE McBAIN DRIVE
LEE'S SUMMIT, MISSOURI



01/28/25

PROJECT NO. 231206		
01/28/2025		
NO.	REVISION	DATE

SHEET NUMBER

S004

STRUCTURAL LOADING - WIND

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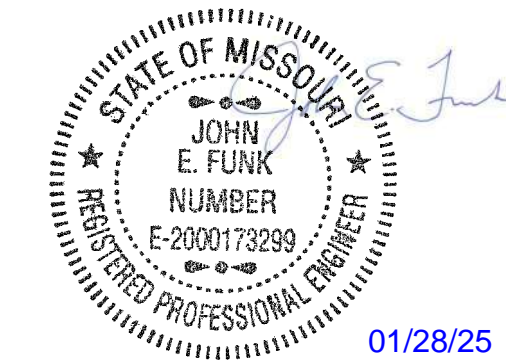
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A NEW BUILDING FOR:

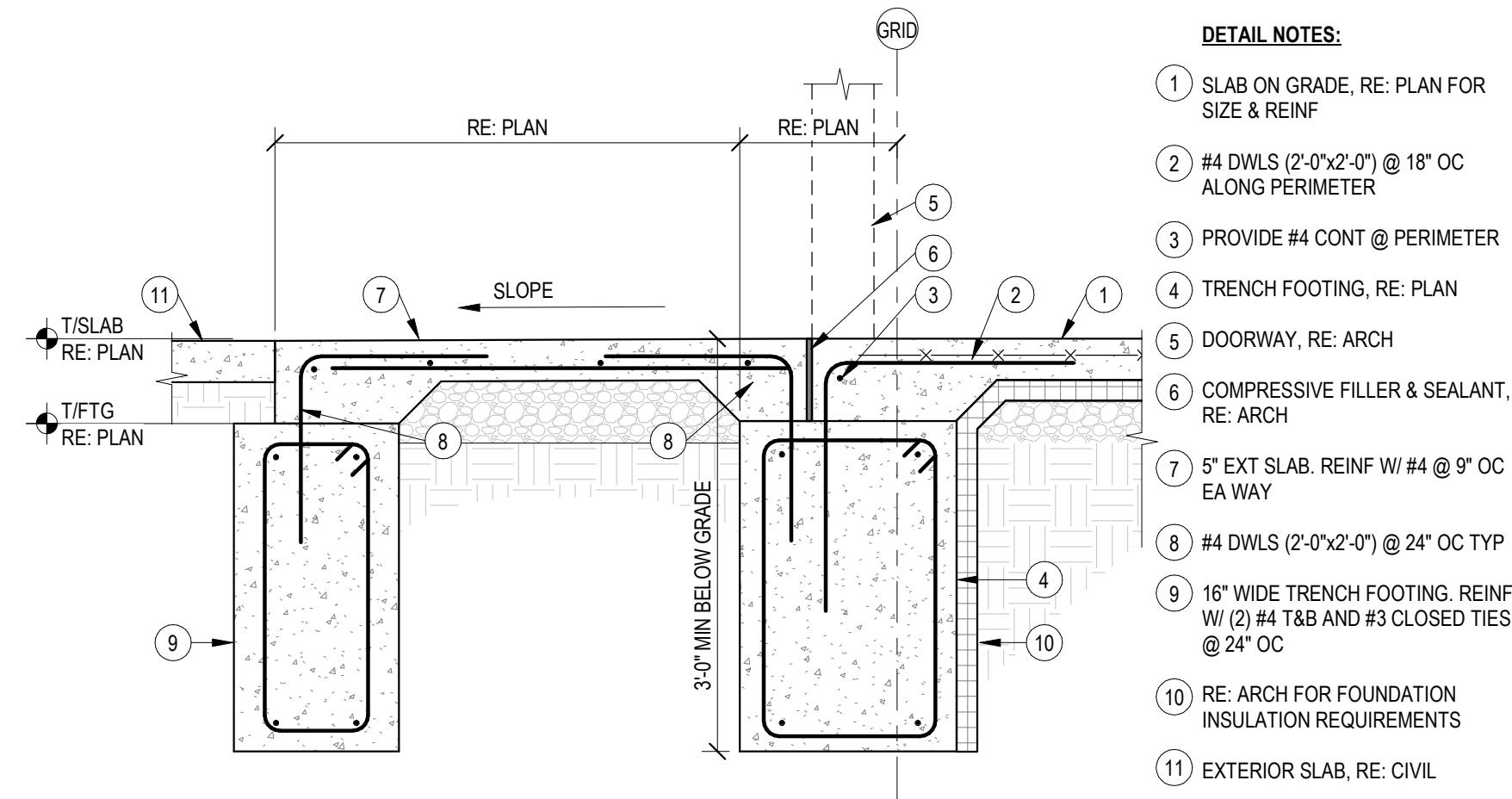
ASSOCIATED PLASTIC SURGEONS

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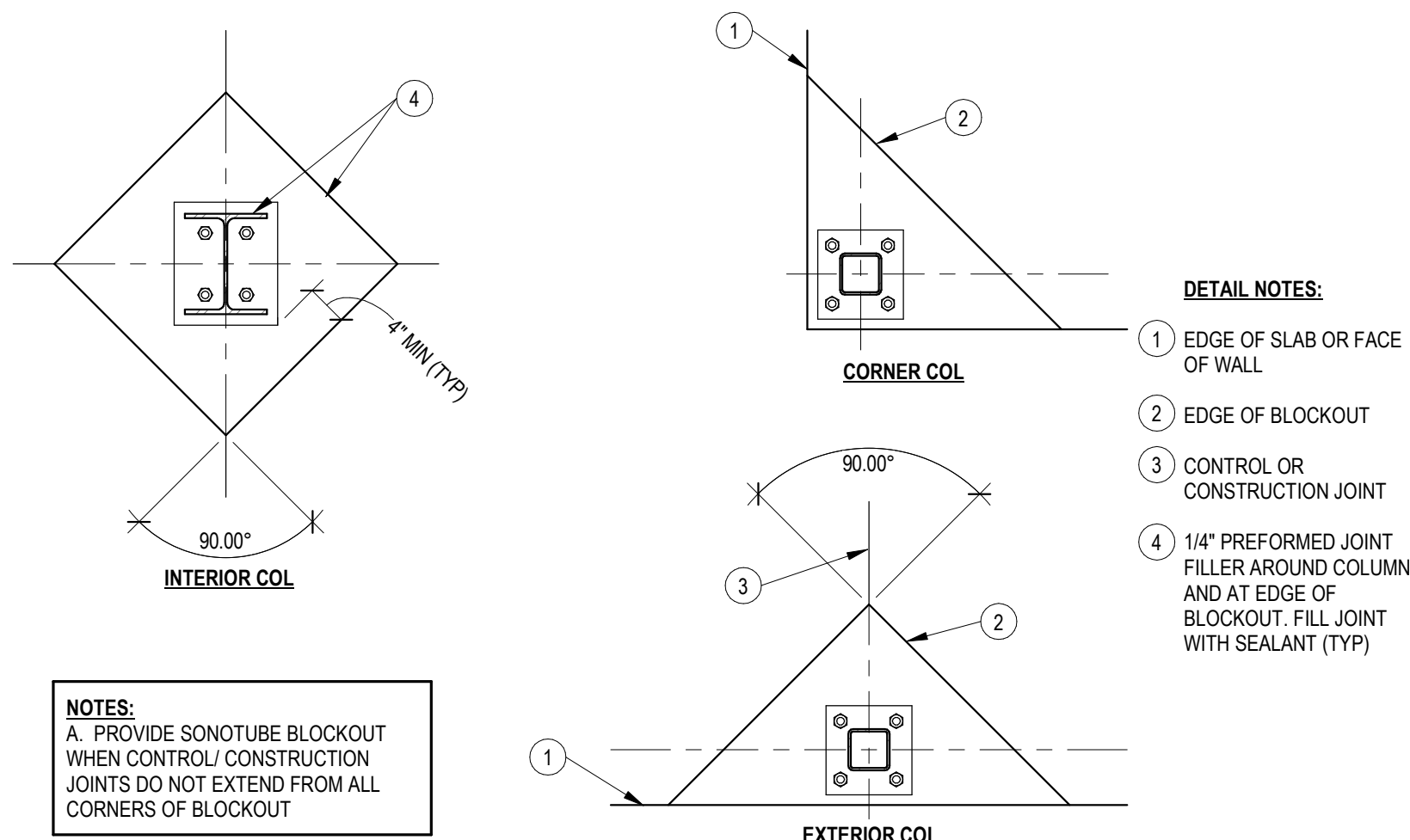
PROJECT NO. 231206		
01/28/2025		
NO.	REVISION	DATE

SHEET NUMBER
S030
TYPICAL DETAILS - CONCRETE



3 STOOP DETAIL

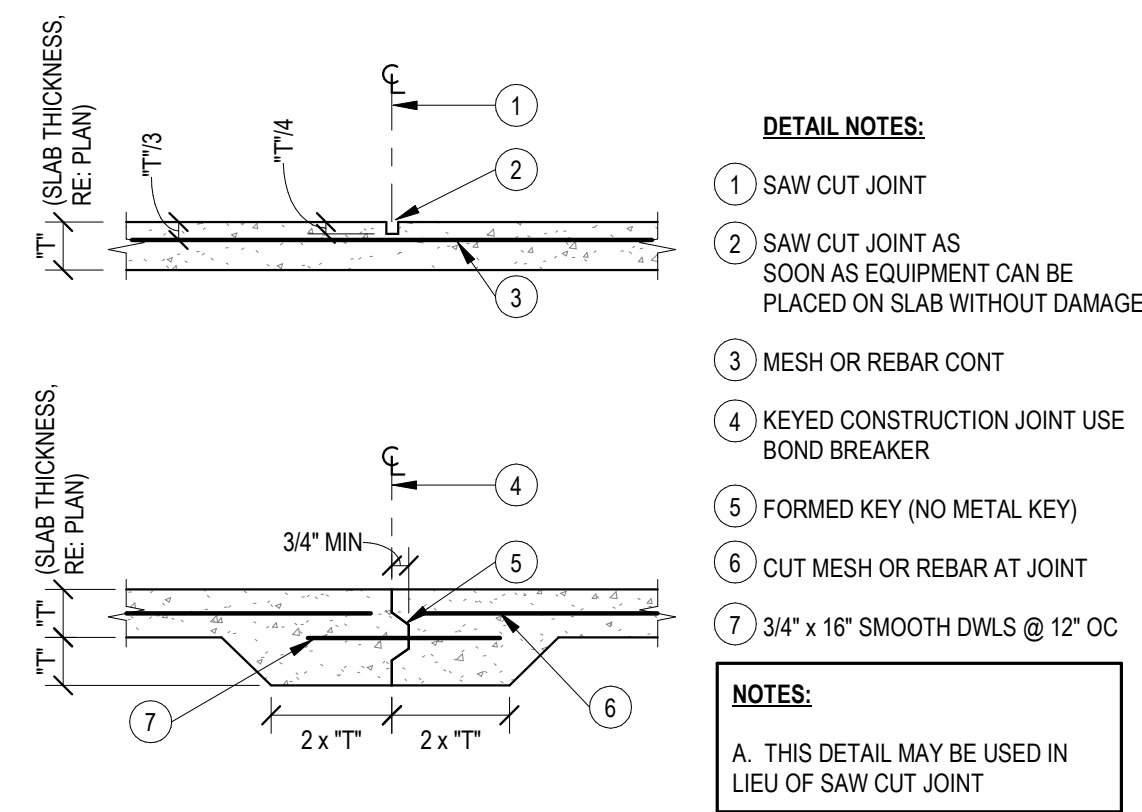
3/4" = 1'-0"



NOTES:
A. PROVIDE SONOTUBE BLOCKOUT WHEN CONTROL/ CONSTRUCTION JOINTS DO NOT EXTEND FROM ALL CORNERS OF BLOCKOUT

2 SLAB ON GRADE JOINTS @ COLUMNS

3/4" = 1'-0"

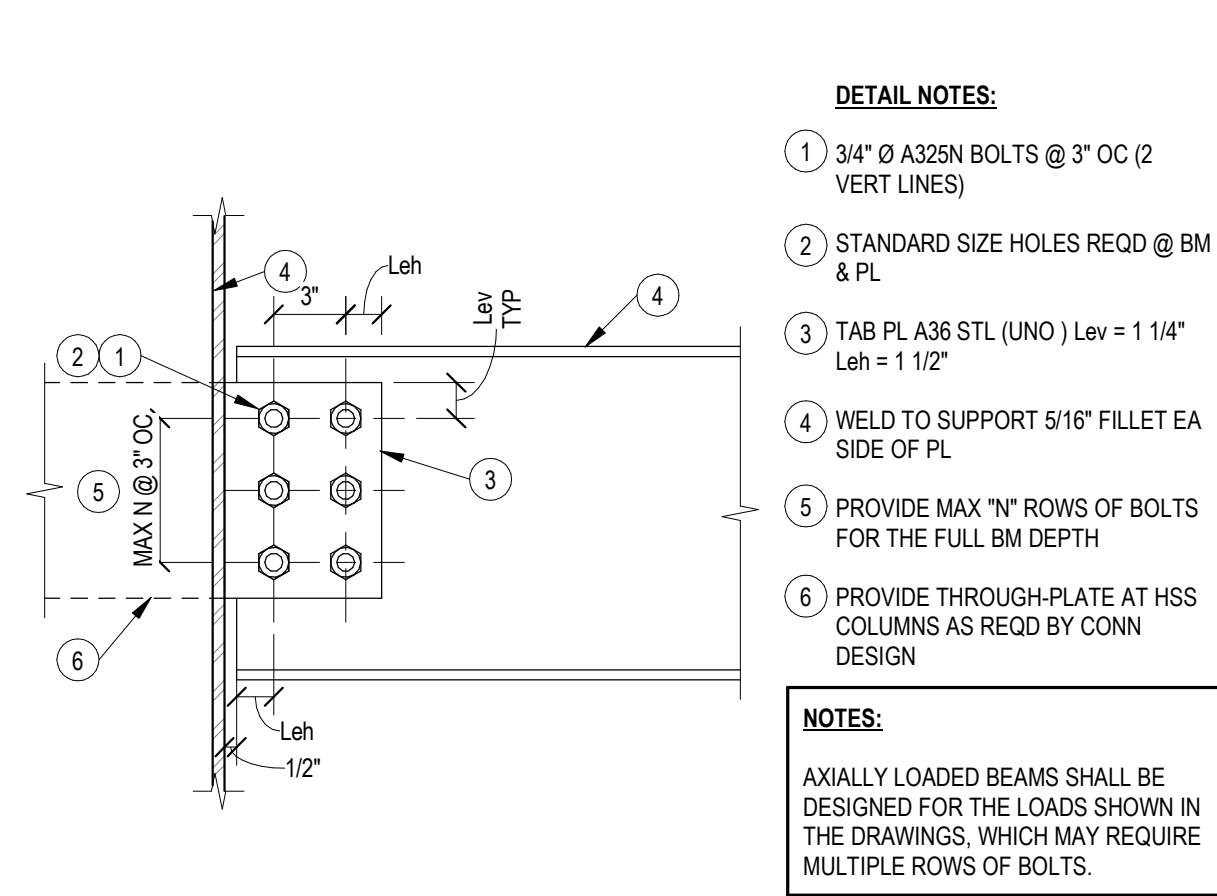


DETAIL NOTES:
1 SAW CUT JOINT
2 SAW CUT JOINT AS SOON AS EQUIPMENT CAN BE PLACED ON SLAB WITHOUT DAMAGE
3 MESH OR REBAR CONT
4 KEYED CONSTRUCTION JOINT USE BOND BREAKER
5 FORMED KEY (NO METAL KEY)
6 CUT MESH OR REBAR AT JOINT
7 3/4" x 16" SMOOTH DWLS @ 12" OC

NOTES:
A. THIS DETAIL MAY BE USED IN LIEU OF SAW CUT JOINT

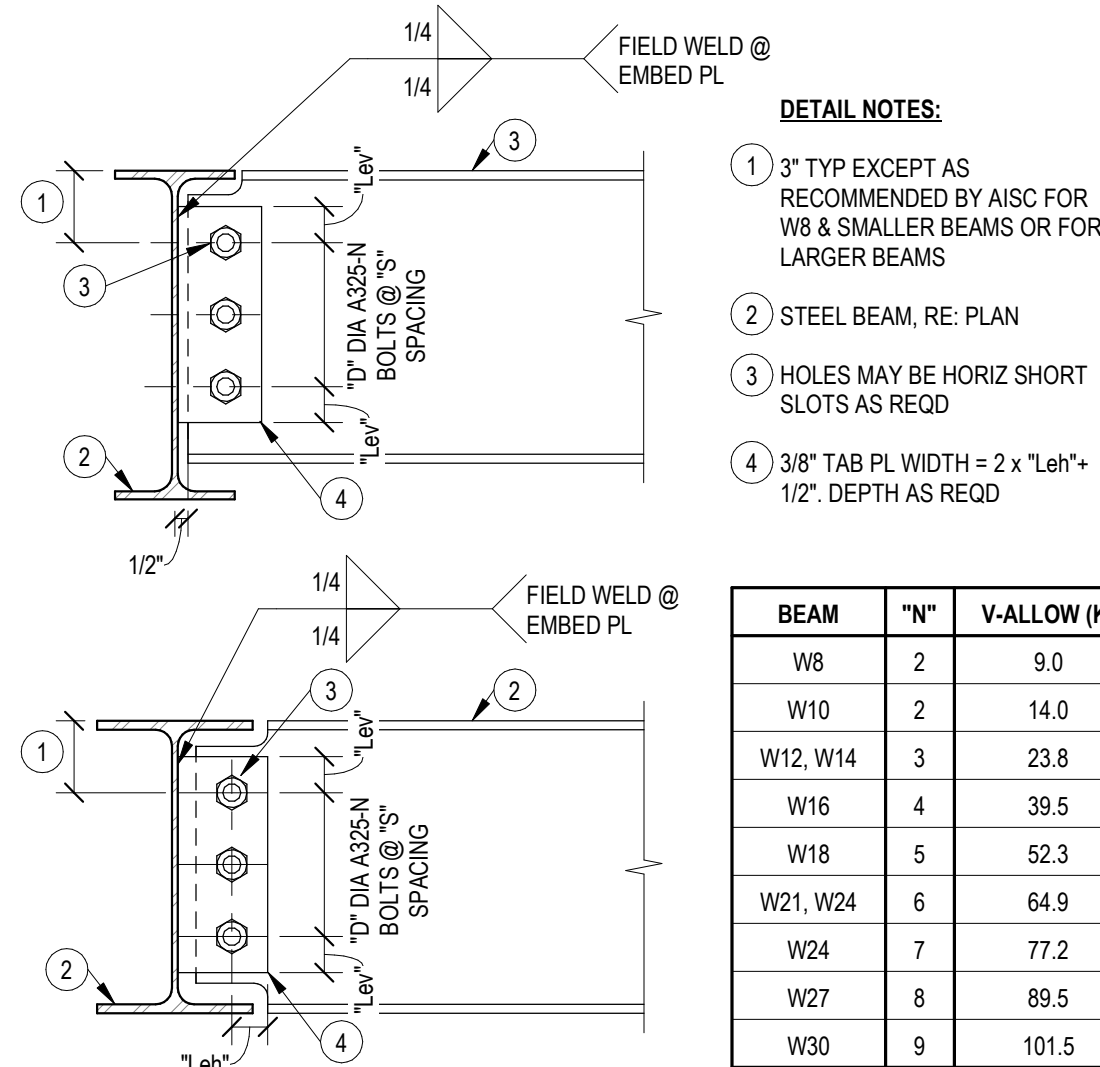
1 SLAB ON GRADE CONTROL JOINTS

3/4" = 1'-0"



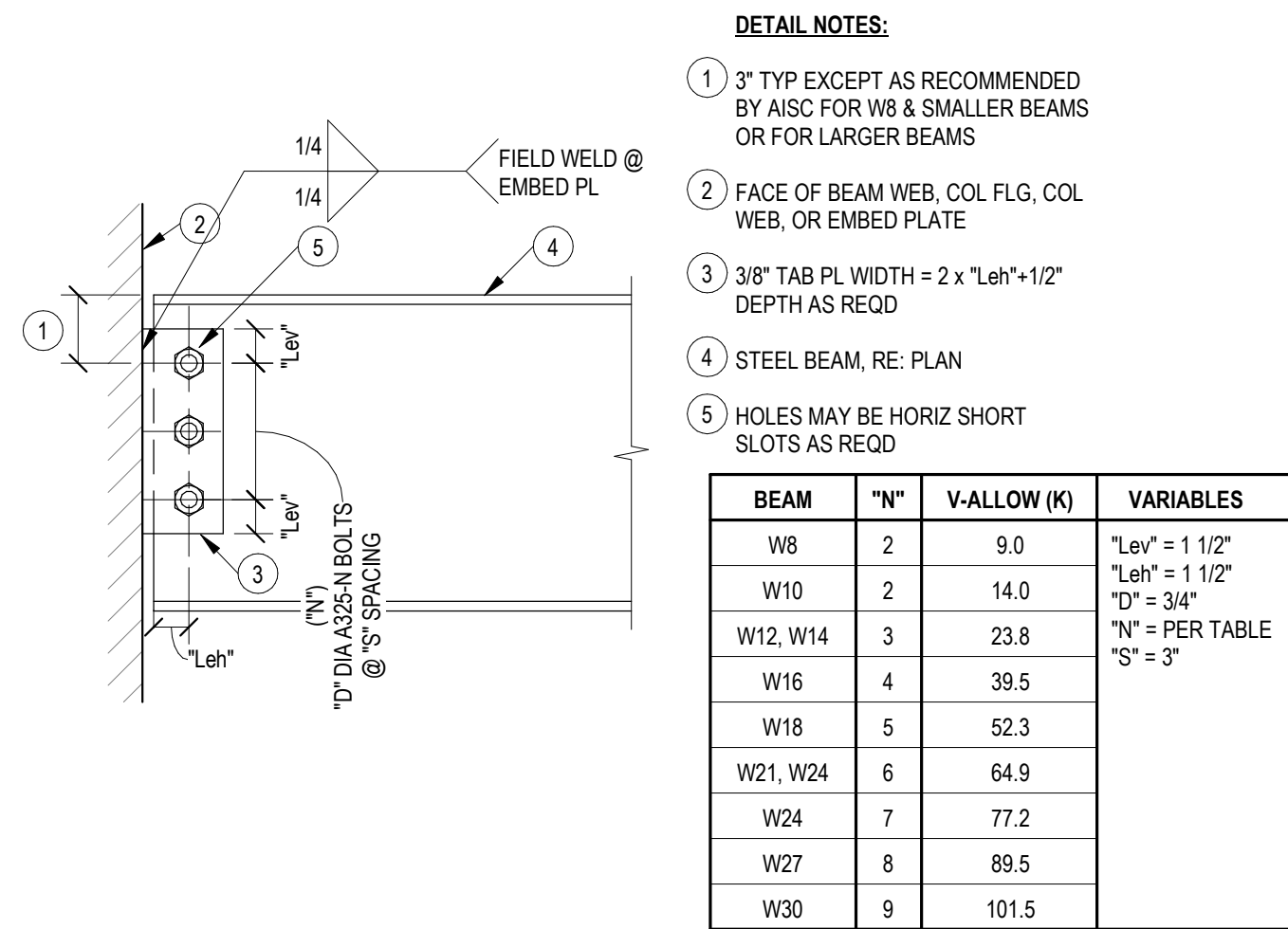
9 BEAM AXIAL LOAD SHEAR PLATE

1 1/2" = 1'-0"



6 SHEAR TAB CONN - COPED

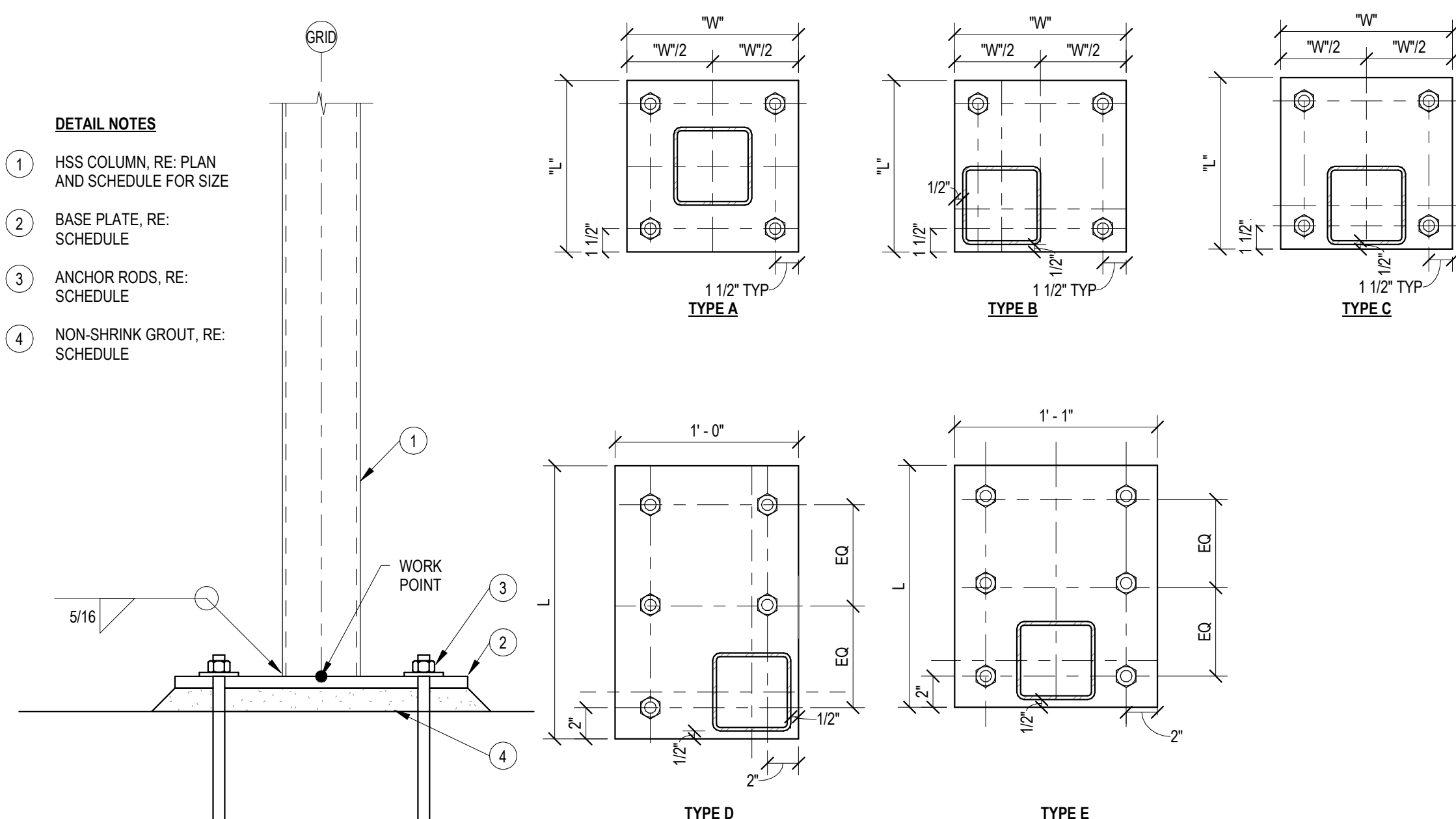
1 1/2" = 1'-0"



8 SHEAR TAB CONN

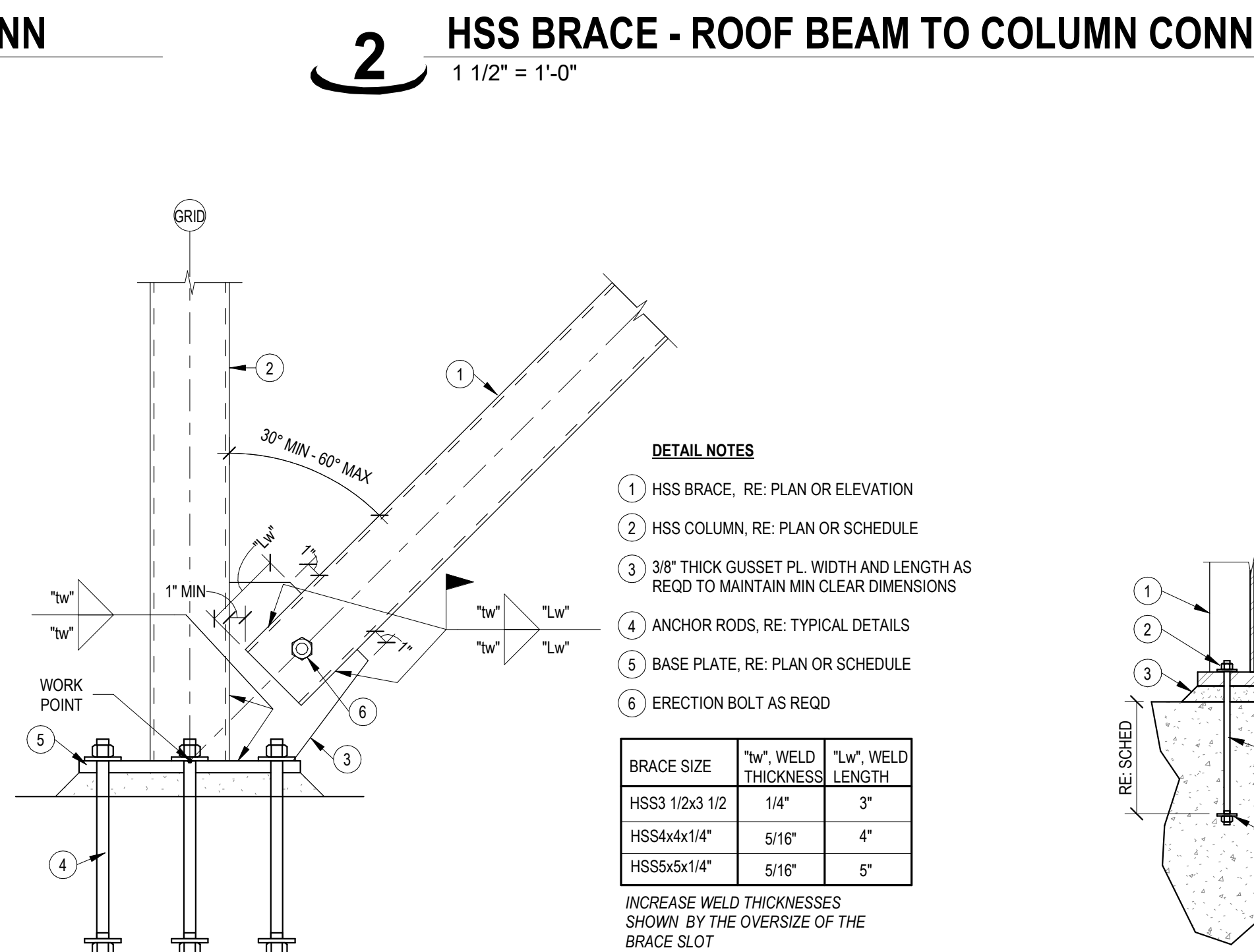
1 1/2" = 1'-0"

SCHEDULE - BASEPLATE					
TYPE MARK	BASEPLATE TYPE	BASEPLATE DIMENSIONS (WxLxT)	ANCHOR ROD DIA.	ANCHOR ROD EMBEDMENT	GROUT THICKNESS
BP-1	A	3/4x11x11	3/4	10	1 1/2
BP-2	B	3/4x11x11	3/4	10	1 1/2
BP-3	C	3/4x11x11	3/4	10	1 1/2
BP-4	D	3/4x11x18	1	18	1 1/2
BP-5	E	3/4x12x18	1	18	1 1/2



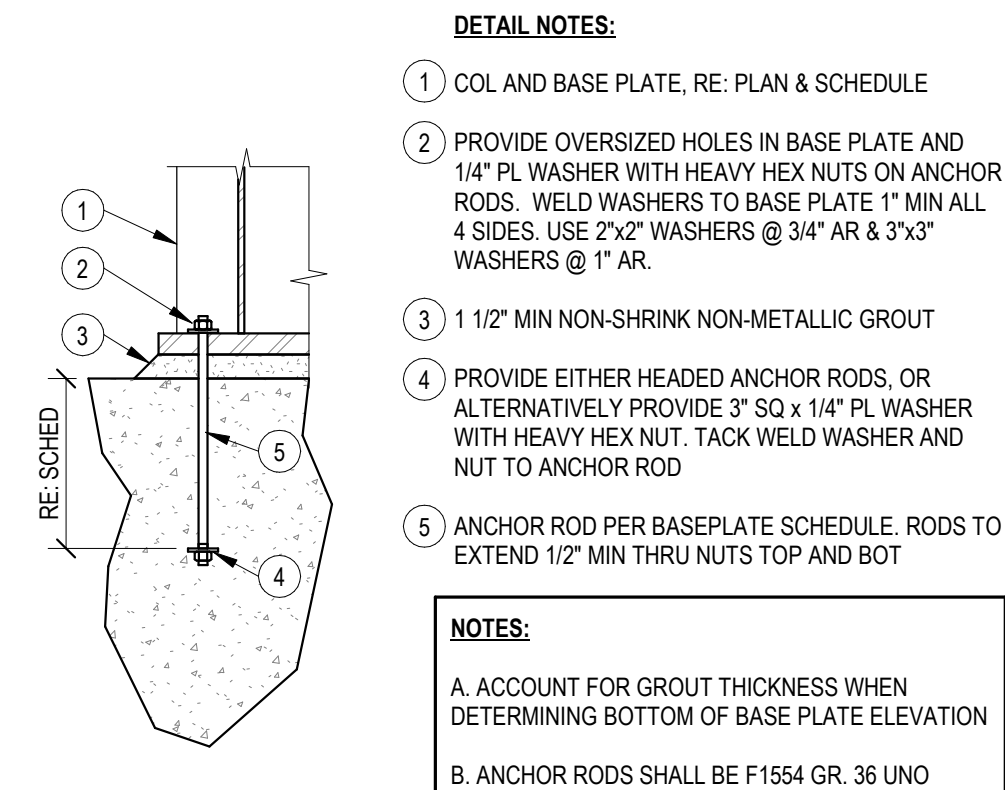
7 COLUMN - BASE PLATE

1 1/2" = 1'-0"



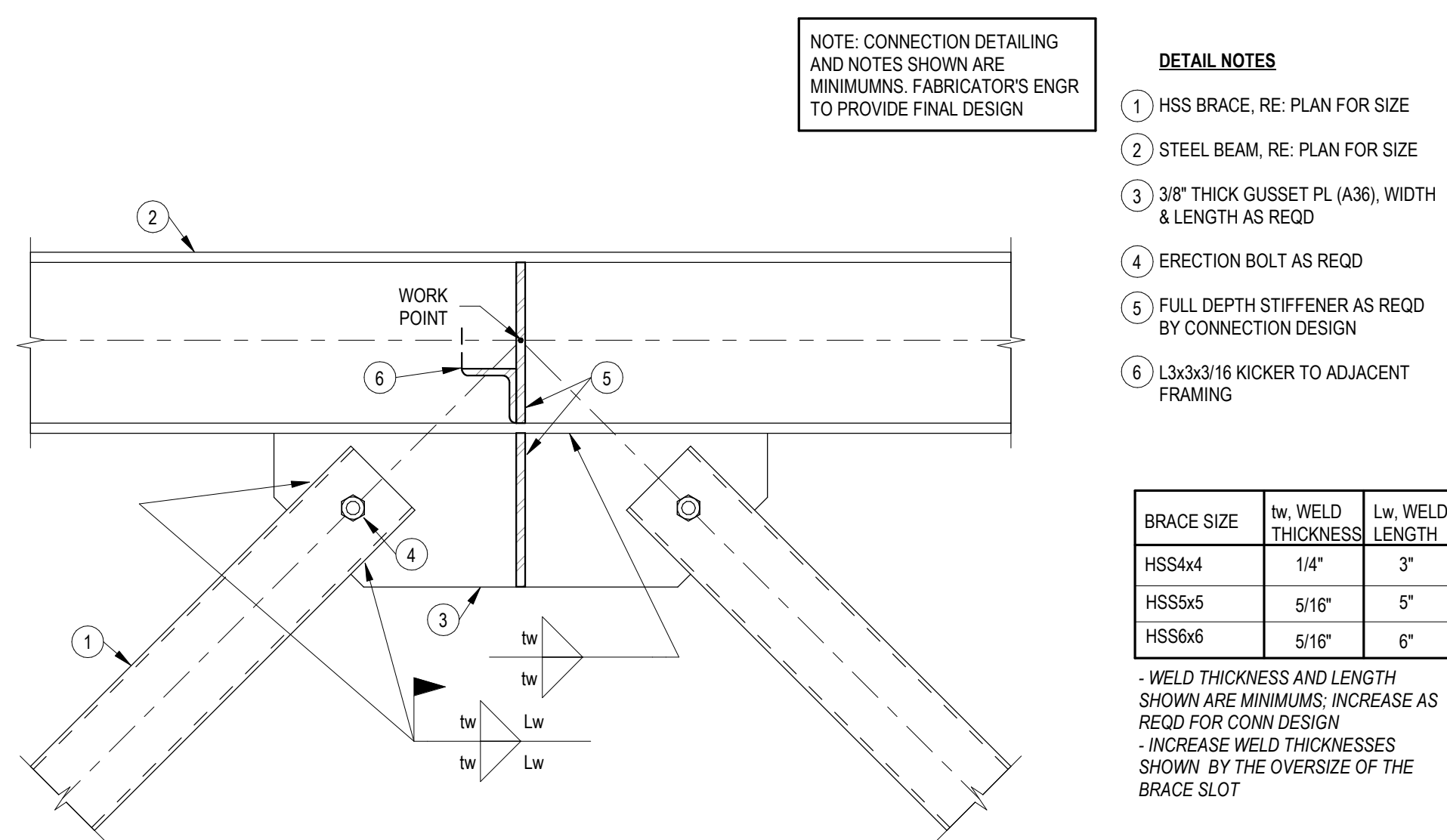
4 HSS BRACE - 6 BOLT BASE PLATE

1 1/2" = 1'-0"



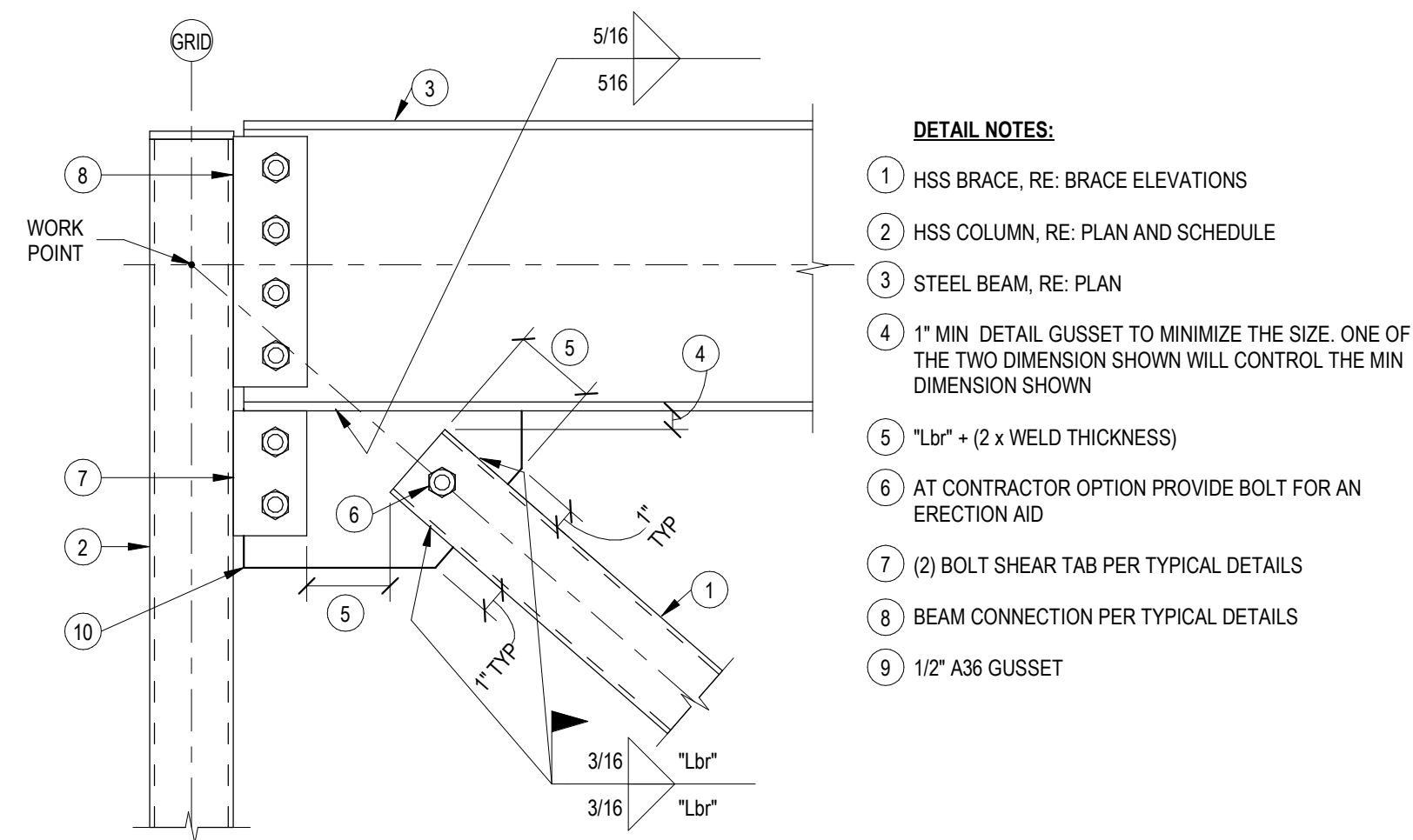
1 ANCHOR ROD

3/4" = 1'-0"



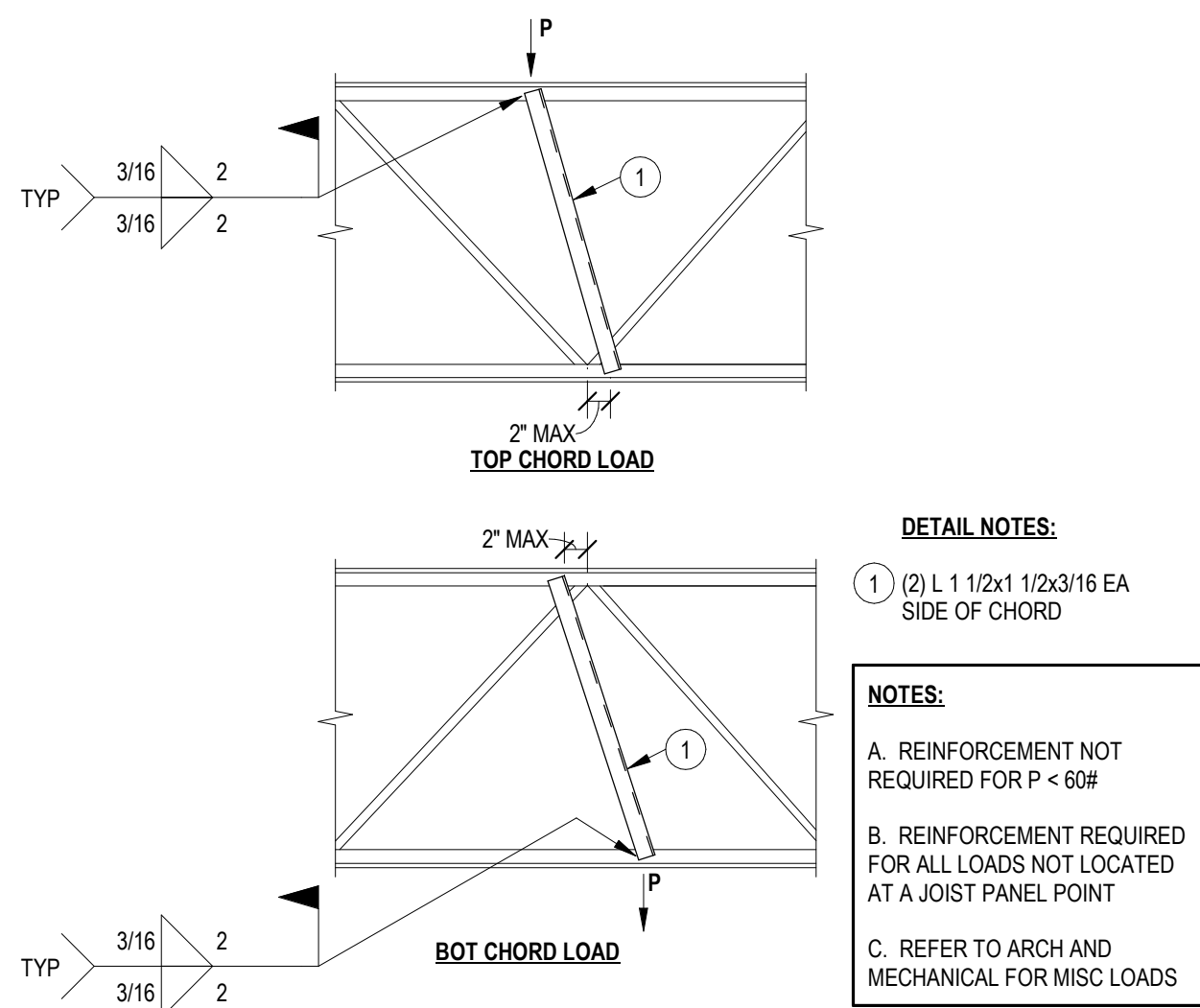
3 HSS BRACE - BEAM MIDSPAN CONN

1 1/2" = 1'-0"

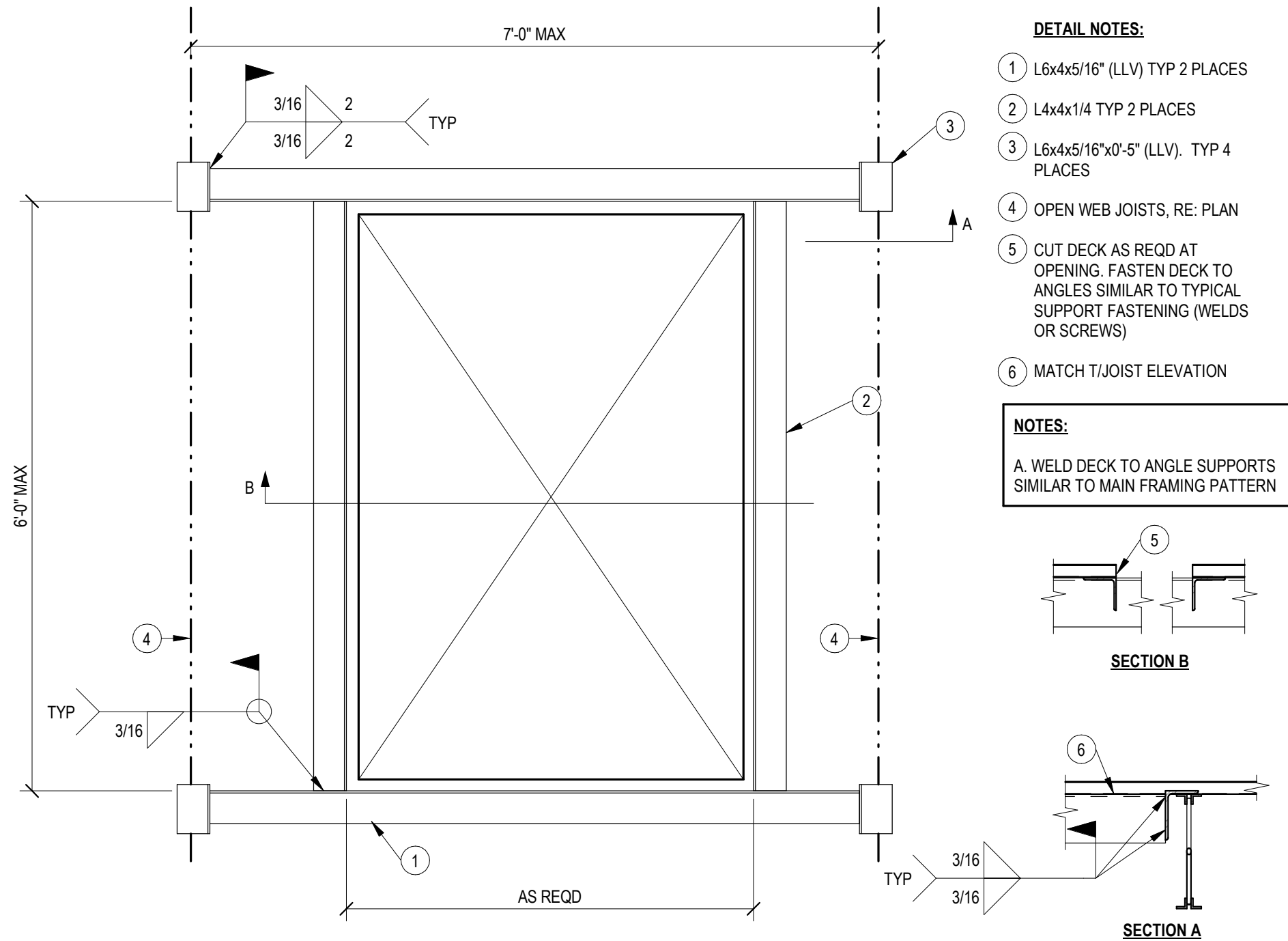


2 HSS BRACE - ROOF BEAM TO COLUMN CONN

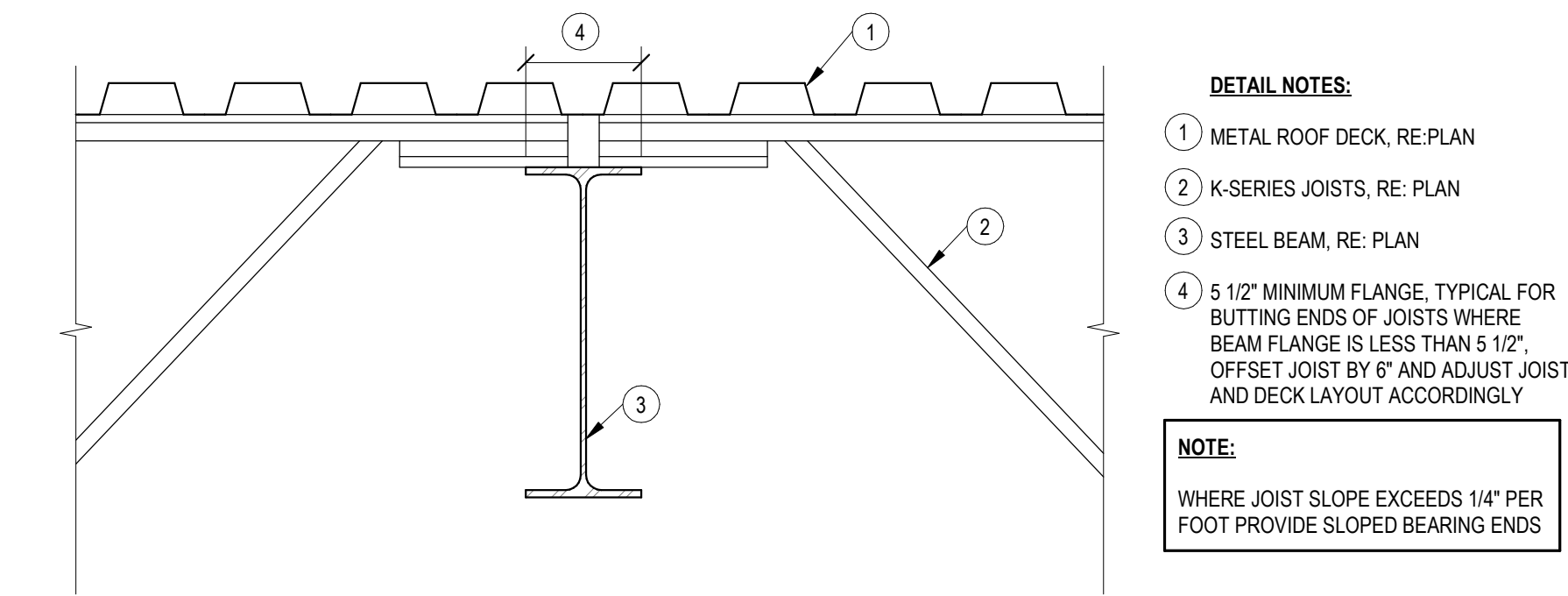
1 1/2" = 1'-0"



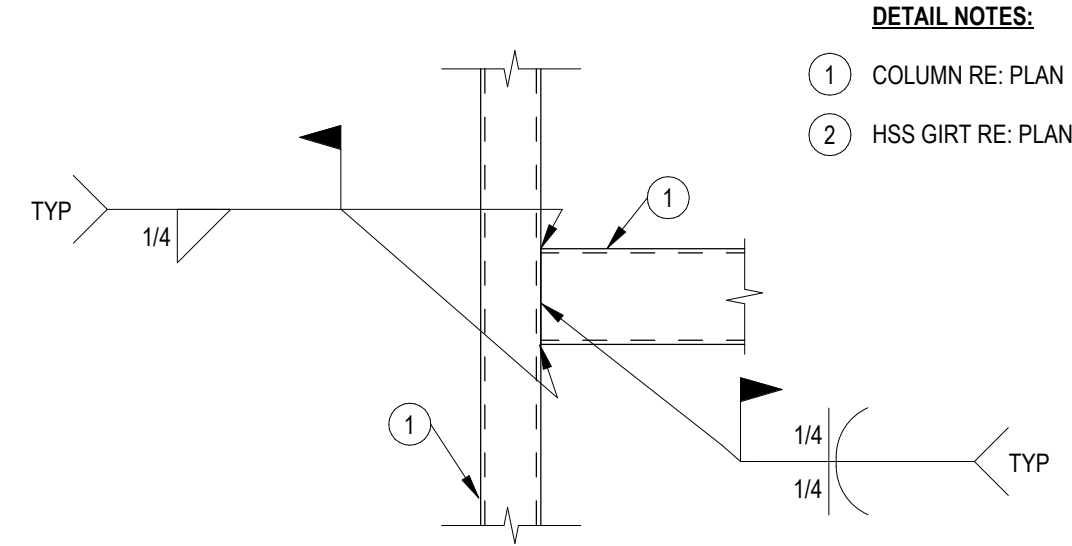
7 JOIST REINF @ POINT LOAD
3/4" = 1'-0"



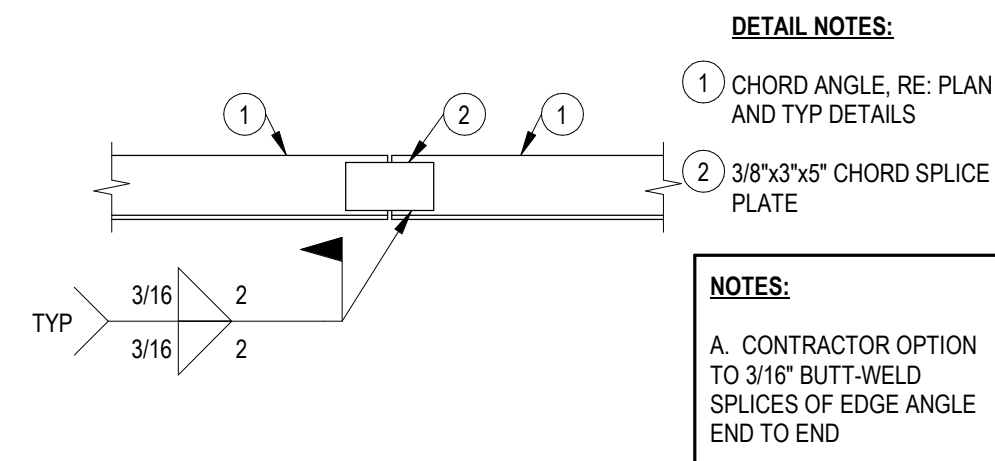
6 ROOF OPENING
3/4" = 1'-0"



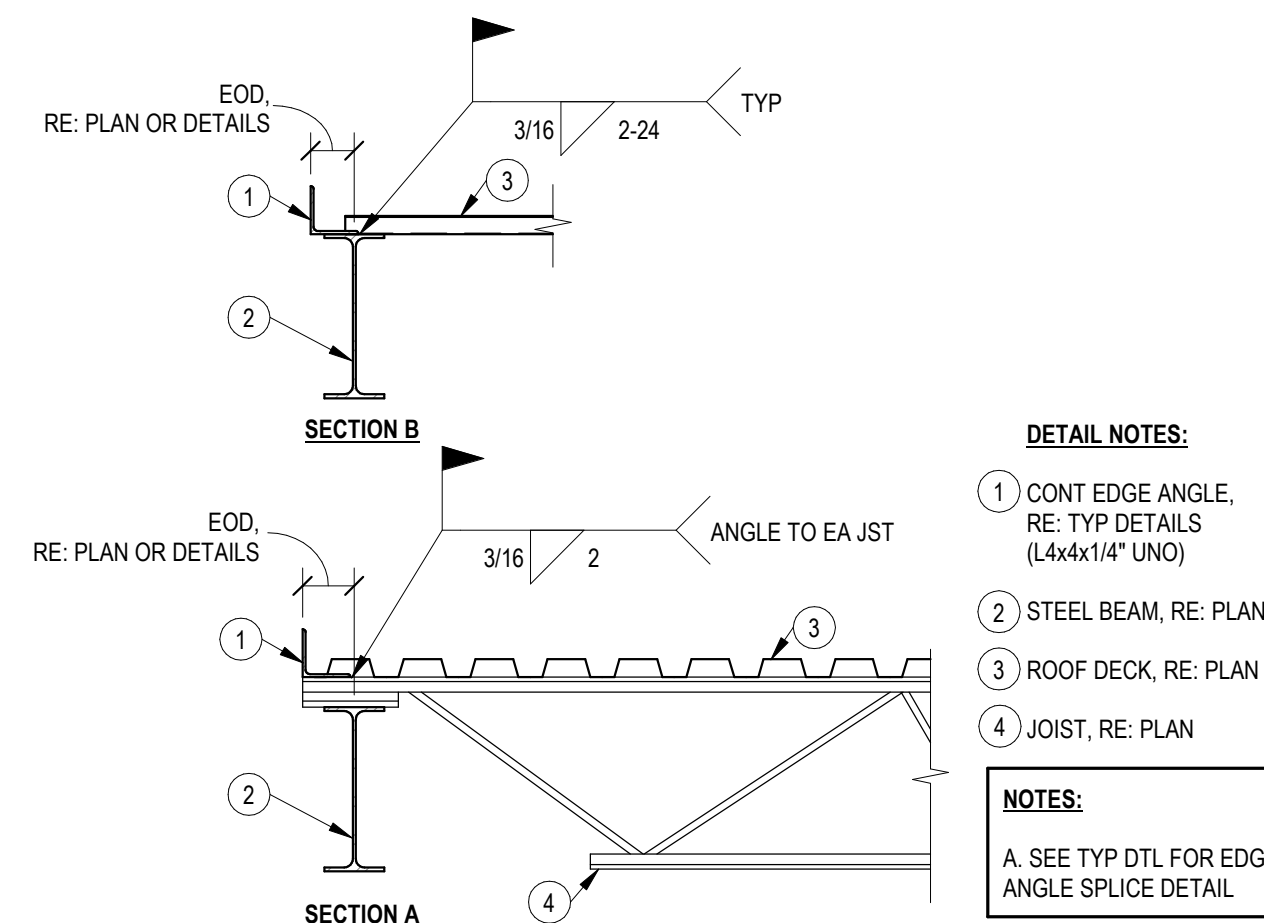
5 K-SERIES JOIST BEARING BEAM
NTS



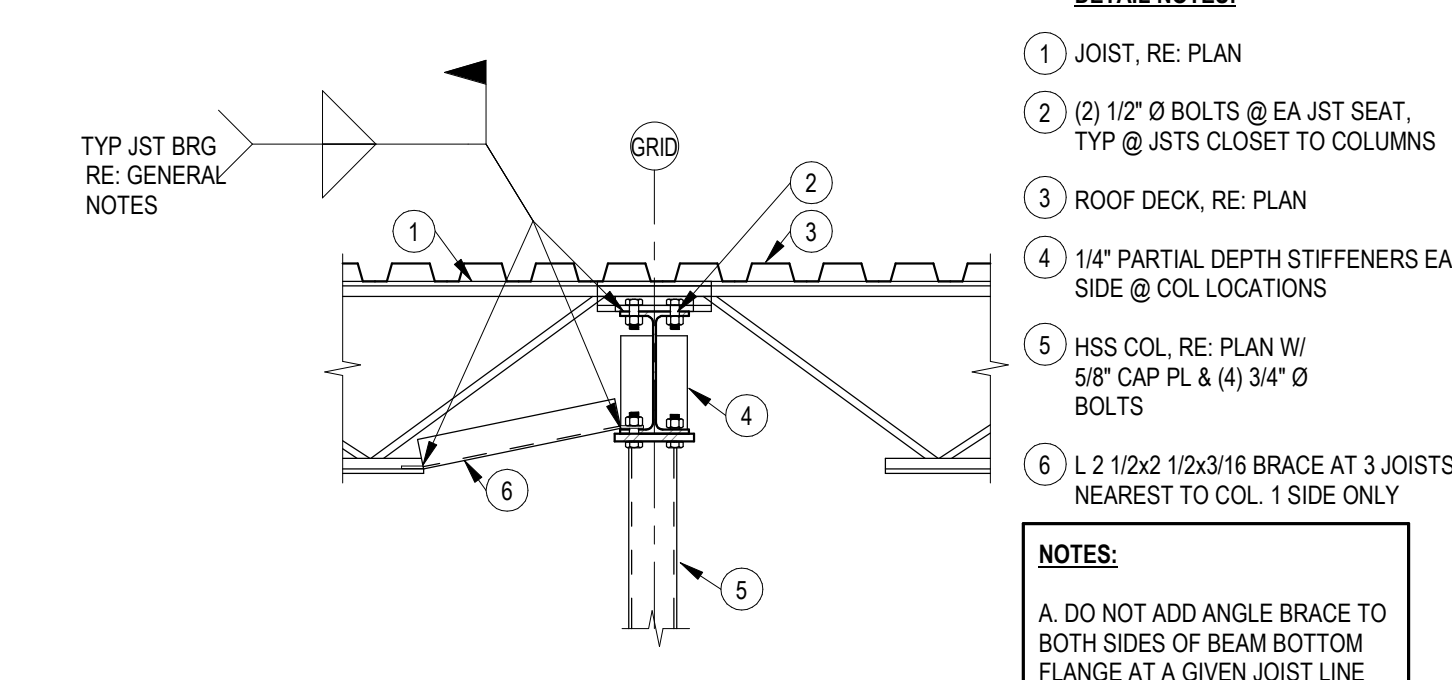
4 TYP HSS TO HSS CONN
3/4" = 1'-0"



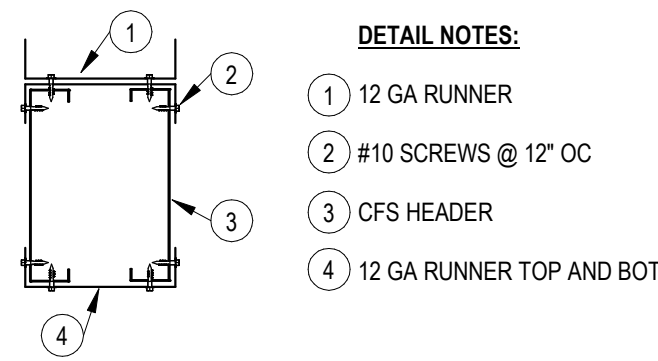
3 EDGE ANGLE SPLICE
1" = 1'-0"



2 ROOF EDGE ANGLE
3/4" = 1'-0"



1 JOIST TO COLUMN CONN
3/4" = 1'-0"

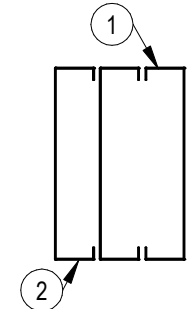


DETAIL NOTES:

- 1 12 GA RUNNER
- 2 #10 SCREWS @ 12" OC
- 3 CFS HEADER
- 4 12 GA RUNNER TOP AND BOT

12 CFS BOX HEADER CONN

1 1/2" = 1'-0"

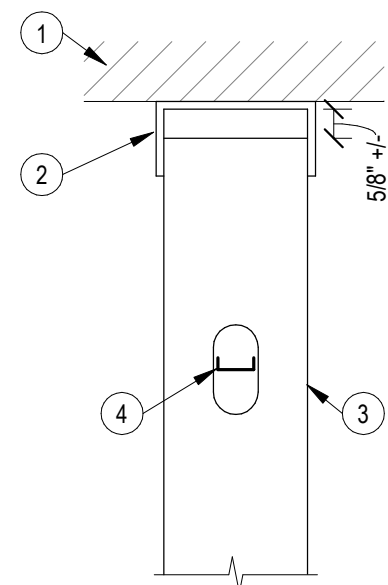


DETAIL NOTES:

- 1 (2) FULL HT STUDS EA SIDE MATCH WALL STUD SIZE
- 2 (1) 14 GA JACK STUD W/ 2" FLANGE EA SIDE OF OPENING

11 CFS BUILT-UP JAMB

1 1/2" = 1'-0"



DETAIL NOTES:

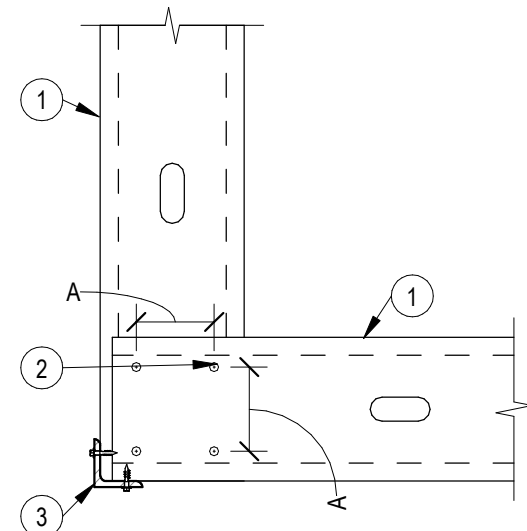
- 1 PRIMARY STRUCTURE, RE: PLAN
- 2 DEEP TRACK CONT, 16 GA MIN
- 3 CFS STUDS, RE: PLAN
- 4 BRIDGING PER MFCR

NOTES:

SPACE VERT @ 4'-0" OC MAX

10 CFS T/STUD SLIP CONN

3/4" = 1'-0"



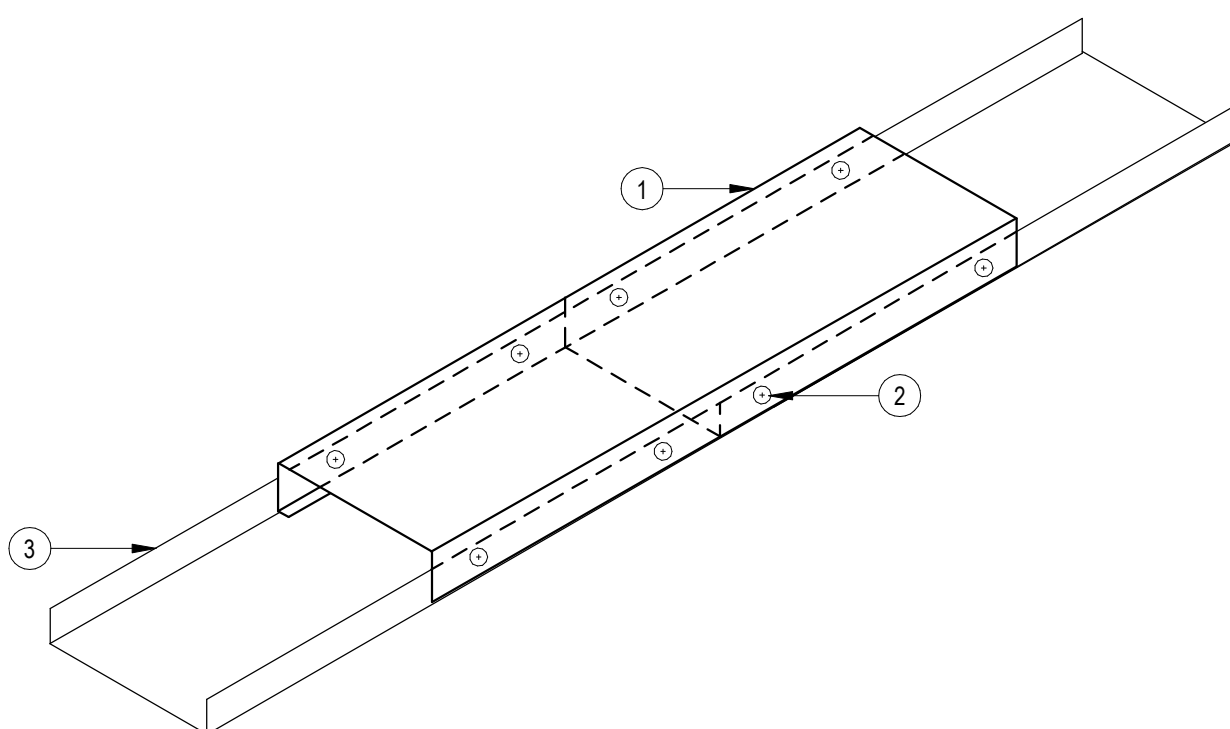
DETAIL NOTES:

- 1 CFS STUD
- 2 (4) #10 - 16 SCREWS PER LAP CONN
- 3 2x2x18 GA CONT CLOSURE ANGLE @ OUTSIDE CORNERS (TYP) ATTACH W/ (1) #10 - 16 SCREW @ EA STUD

STUD DEPTH	A
3 5/8"	2 1/2"
6"	4"
8"	6"
10"	8"
12"	10"

9 CFS STUDS CORNER CONN

1 1/2" = 1'-0"



DETAIL NOTES:

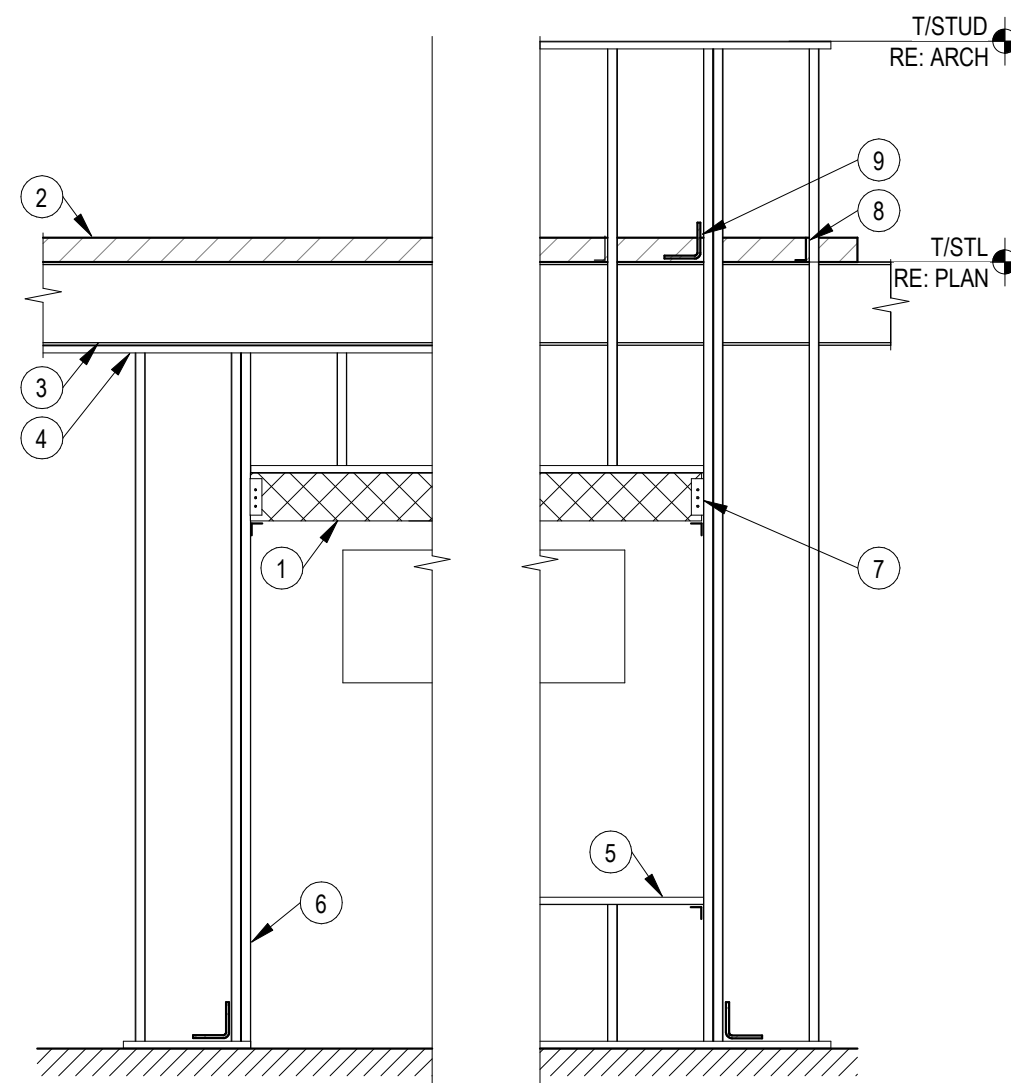
- 1 12" LONG SECTION OF STUD, SAVE GAGE & SIZE AS TRACK
- 2 SCREW ATTACH BOTH ENDS OF RUNNER TRACKS TO SHORT SECTION OF STUD W/ (2) #10 SCREWS ON BOTH SIDES
- 3 TRACK PER SECTION

NOTES:

A. ONLY REQUIRED WHERE TRACK IS LABELED CONTINUOUS

8 TYPICAL TRACK SPLICE

3" = 1'-0"



DETAIL NOTES:

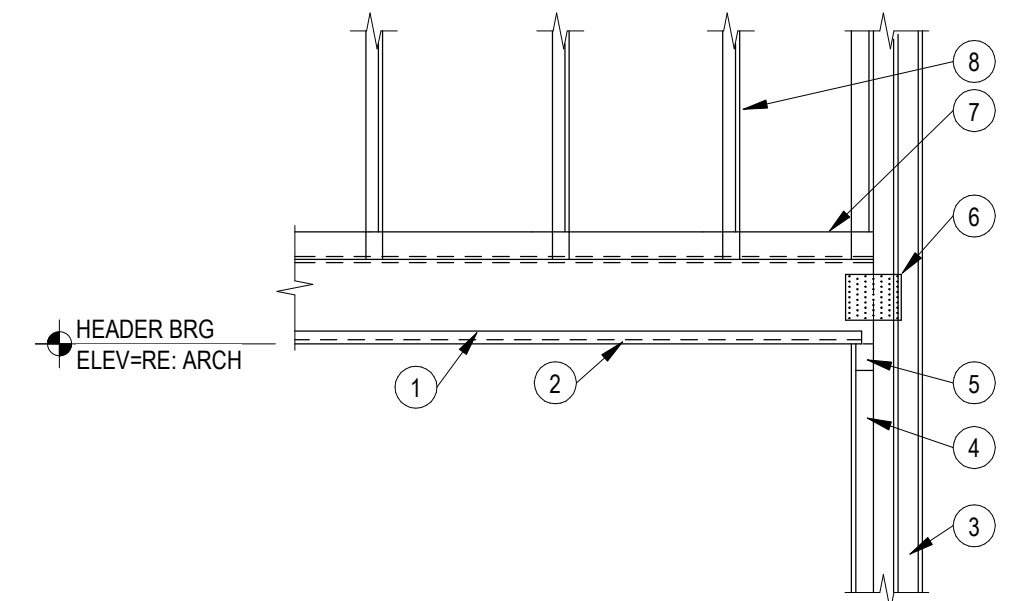
- 1 CFS STUD HEADER AND SUPPORT CONN PER STUD SUPPLIER
- 2 EDGE ANGLE OR SLAB EDGE, RE: PLAN
- 3 STEEL BEAM, RE: PLAN
- 4 FOR CONDITIONS WHERE CFS STUDS TERMINATE @ BOT OF STRUCTURAL STEEL PROVIDE SLIP TRACK DETAIL OR ALT SLIP CONN. BOT FLANGE OF BEAM SHALL BE BRACED
- 5 FOR WINDOW OPENINGS PROVIDE A SILL & CONN
- 6 CFS STUD JAMB (WINDOW OR DOOR). PROVIDE DOUBLE STUDS MIN
- 7 RE: TYP DTL FOR SCHEMATIC DETAIL OF HEADER-TO-JAMB CONN
- 8 VERT SLIP CONN AT EA STUD. CONNECT TO EDGE ANGLE OR SLAB EDGE
- 9 JAMB TOP CONN

NOTES:

A. COORDINATE ROUGH OPENING DIMENSIONS WITH ARCH

7 CFS STUDS @ STEEL BEAM ELEV

3/8" = 1'-0"

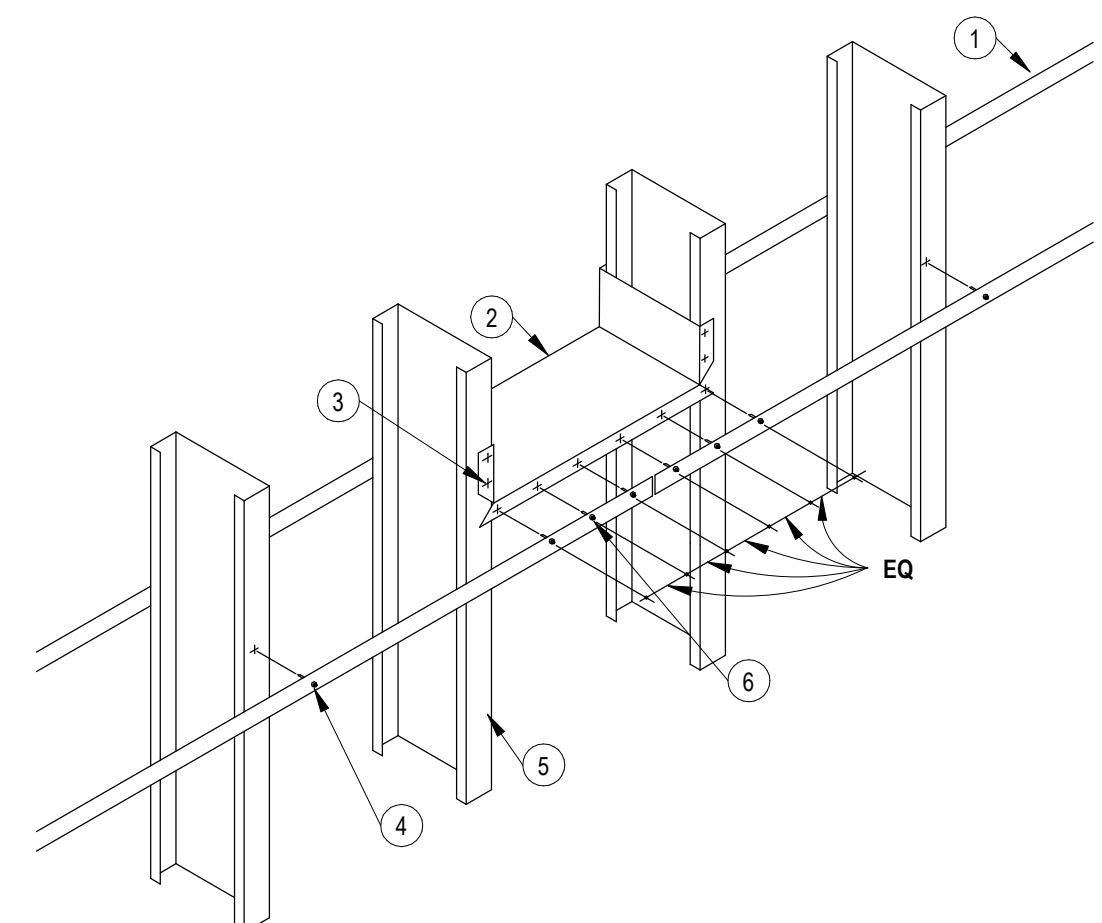


DETAIL NOTES:

- 1 CFS HEADER
- 2 CONT BOT RUNNER TRACK
- 3 FULL HT KING STUDS
- 4 BRG STUD
- 5 16 GA RUNNER TRACK
- 6 SIMPSON TP57 EA FACE CENTER @ END OF LINTEL
- 7 CONT TOP RUNNER TRACK CONT
- 8 CFS STUDS @ 16" OC

6 CFS BOX HEADER ELEV

1/2" = 1'-0"



DETAIL NOTES:

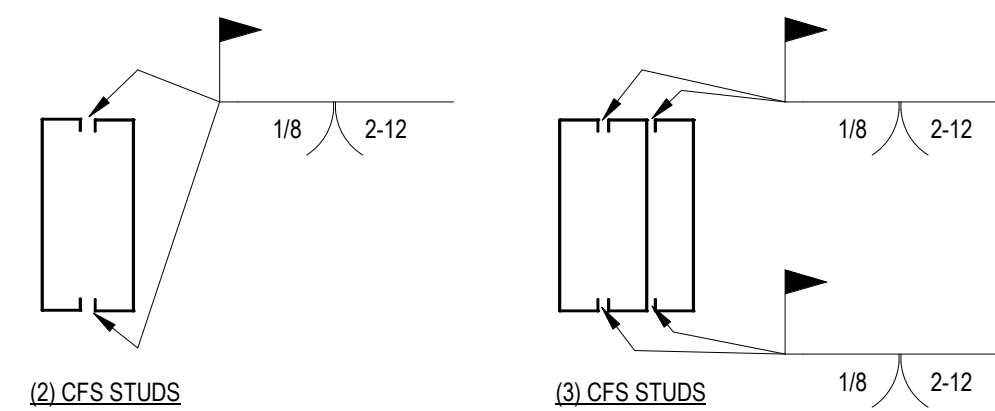
- 1 1 1/2" GA STRAPPING ON EA SIDE OF MEMBER (STRAPPING TO START END & SPLICE @ SOLID BLOCKING)
- 2 MIN 18 GA RUNNER TRACK SOLID BLOCKING @ 10'-0" OC MAX. MAKE RUNNER TRACK 8" LONGER THAN MEMBER INSIDE SPACING. CLIP FLANGES OF TRACK 4" FROM EA END. BEND TRACK @ CLIPPED FLANGES
- 3 ATTACH BLOCKING TO MEMBERS WITH (2) # 10-16 SCREWS IN EA FLANGE AS SHOWN
- 4 (1) #10-16 SCREW IN EA STUD FLANGE
- 5 TYP CFS MEMBER
- 6 USE (6) # 10-16 SCREWS ON EA SIDE OF BLOCKING

BLOCKING NOTE

PLACE SOLID BLOCKING @ ENDS OF WALL OR FLOOR SYSTEM, ADJACENT TO OPENINGS & AT 10'-0" OC MAX

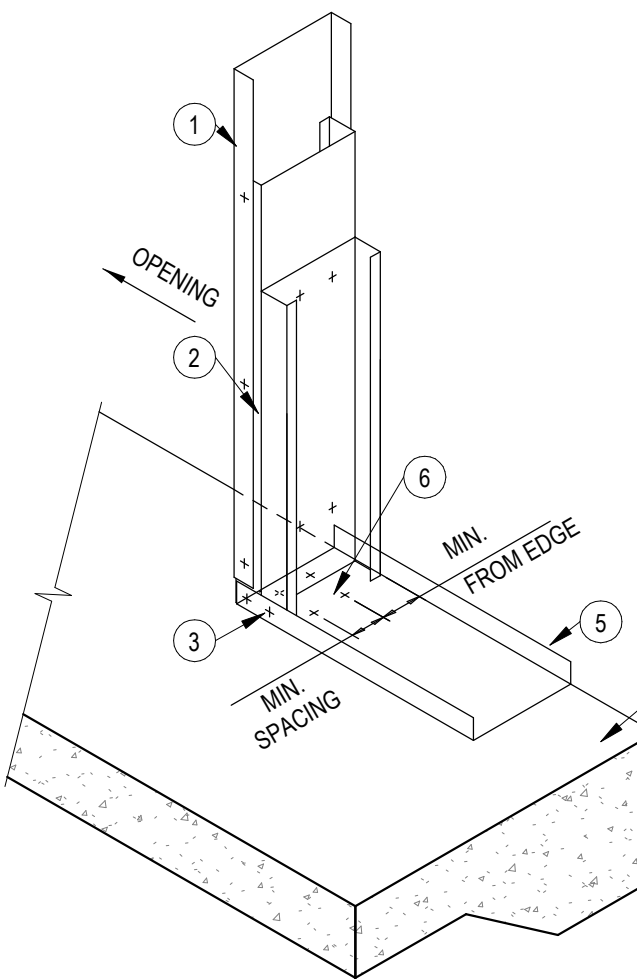
5 CFS STUD STRAP & BLOCKING

3/4" = 1'-0"



4 CFS BUILT-UP STUD COLUMNS

1 1/2" = 1'-0"

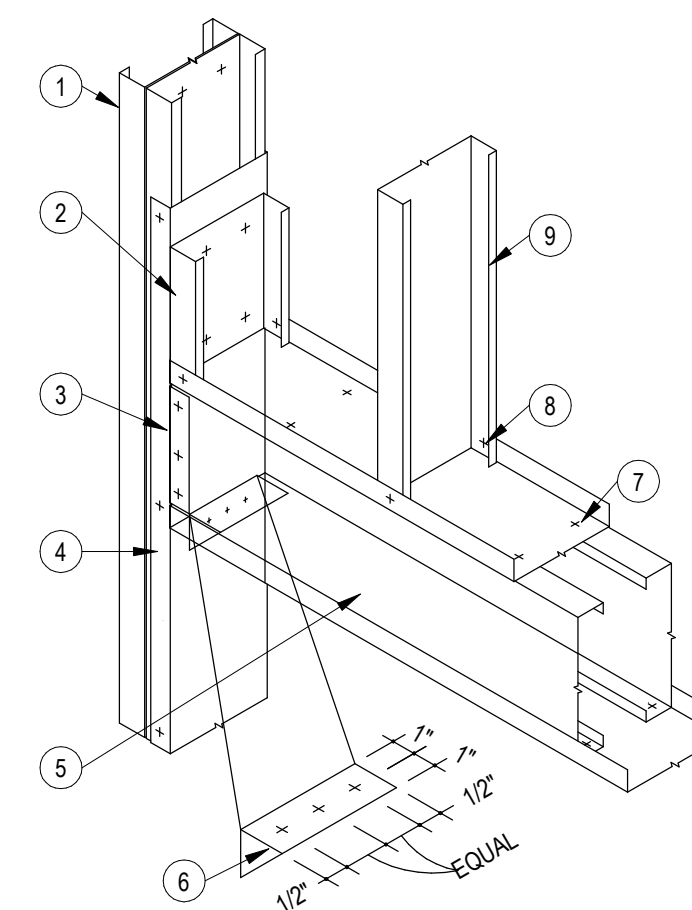


DETAIL NOTES:

- 1 CAP OPENING SIDE OF JAMB W/ TRACK ATTACHED W/ (1) #10-16 SCREW @ 16" OC IN EA LEG
- 2 FULL HEIGHT 18 GA JAMB STUDS MATCH THE SIZE OF THE TYP WALL STUDS
- 3 (1) #10-16 SCREW @ EA FLANGE
- 4 CONC SLAB
- 5 RUNNER TRACK
- 6 ATTACH TRACK END TO SLAB W/ (4) 0.145" Ø PAF x 1 1/4" EMBED PROVIDE 4" CLEAR B/W EA PAF

3 CFS SILL CONN @ OPENINGS

3/4" = 1'-0"

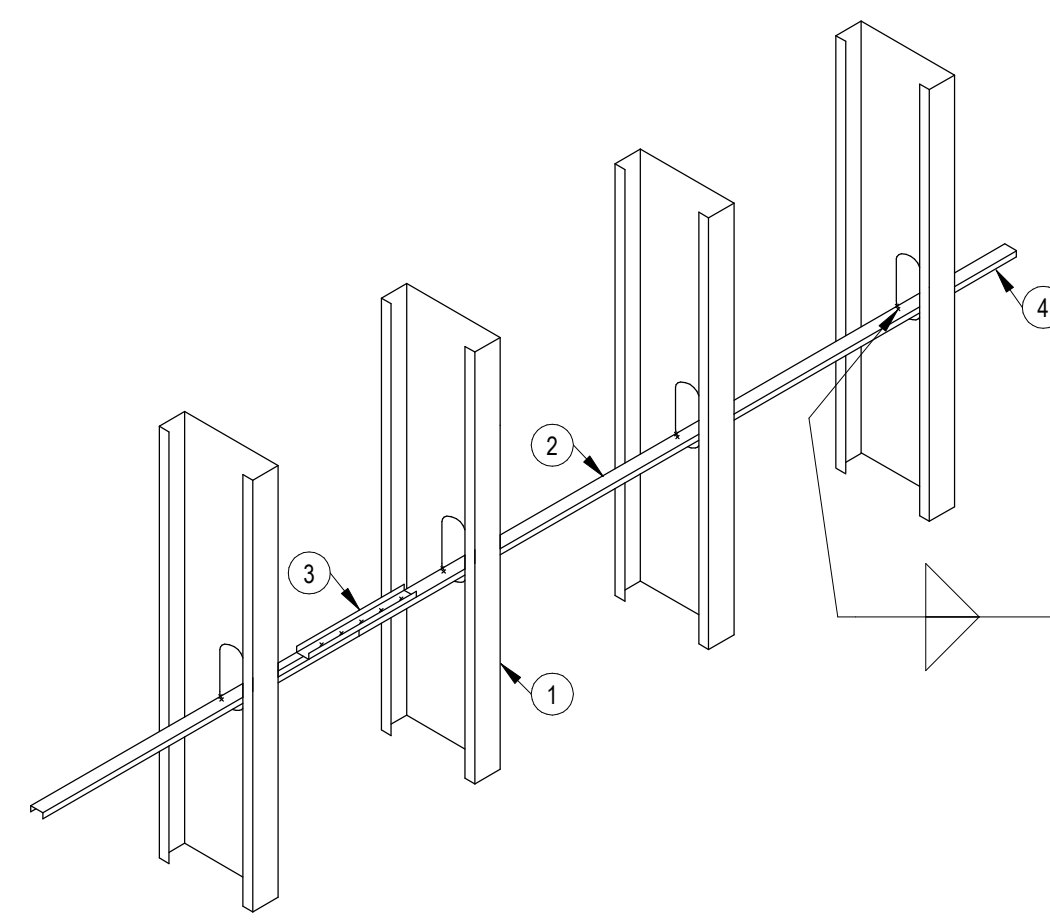


DETAIL NOTES:

- 1 FULL HEIGHT JAMB STUDS. QUANTITY & MEMBER SIZES AS REQD BY DESIGN
- 2 6" LONG SECTION OF STUD ATTACHED TO JAMB W/ (4) #10-16 SCREWS
- 3 18 GA MIN TRACK HEADER CONN
- 4 IF NO TRACK IN JAMB TYPE CAP OPENING SIDE OF JAMB W/ TRACK ATTACHED W/ (1) #10-16 SCREW @ 12" OC IN EA LEG
- 5 (2) UNPUNCHED STUDS. MEMBER SIZES AS REQD PER DESIGN
- 6 CLIP ANGLE SIZE AS REQD PER DESIGN
- 7 (2) #10-16 SCREWS @ 12" OC
- 8 (1) #10-16 SCREW TYP EA FLANGE
- 9 CRIPPLE STUDS

2 CFS JAMB STUD CONN

3/4" = 1'-0"



DETAIL NOTES:

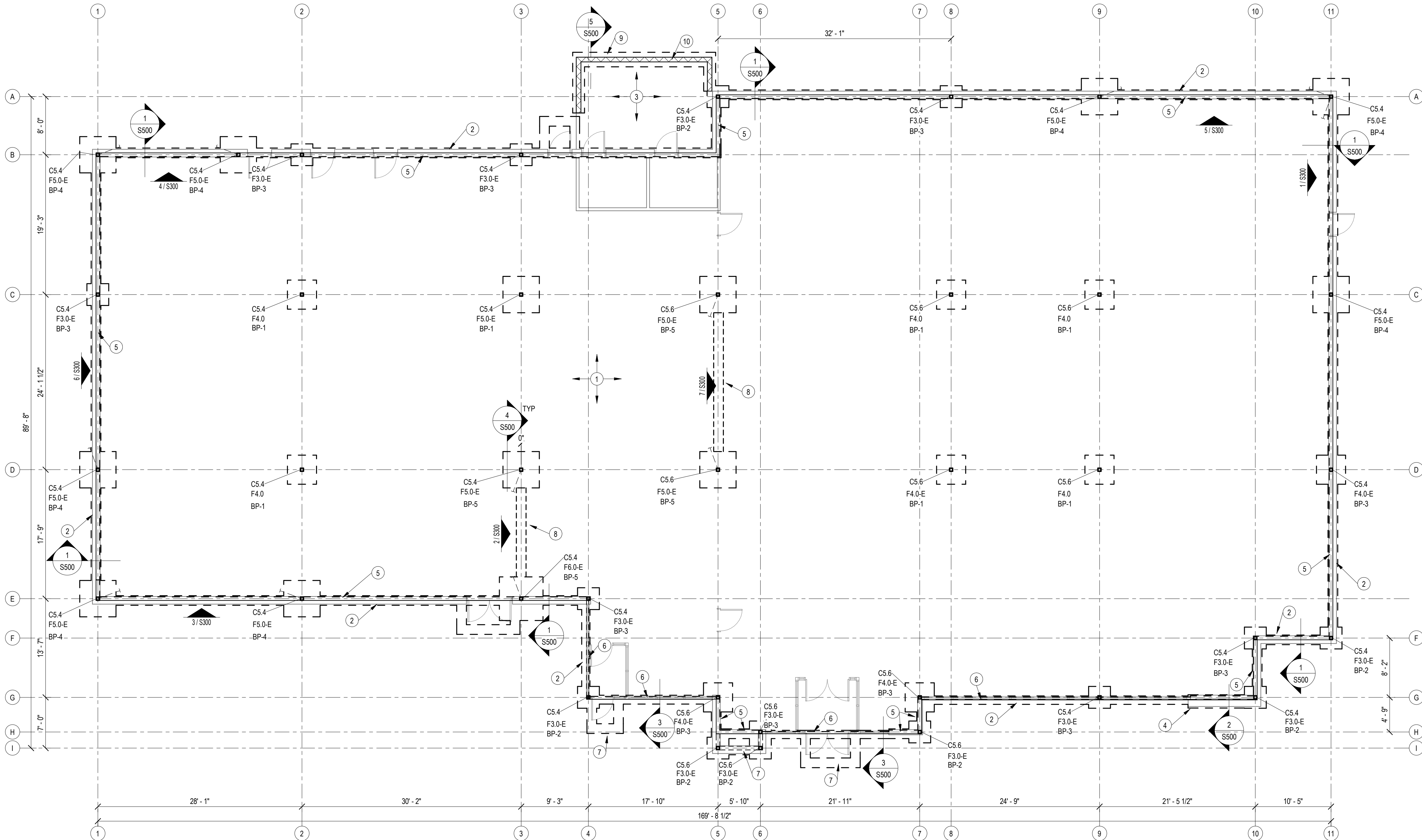
- 1 CFS STUD 8" MAX DEPTH
- 2 150U50-54 CONT COLD ROLLED CHANNEL
- 3 150U50-54 x 12" LONG @ SPLICE LOCATIONS W/ (6) #10 - 16 SCREWS (3) EA END
- 4 ALL BRIDGING SHALL BE TERMINATED @ JAMBS CORNER STUDS OR COLUMNS. BRIDGING SHALL NOT HANG LOOSE

1 CFS STUD BRIDGING

3/4" = 1'-0"

SCHEDULE - SPREAD FOOTING				
TYPE MARK	LENGTH	WIDTH	THICKNESS	REINF
F4.0	4'-0"	4'-0"	1'-0"	(5) #5 EW TOP & BOT
F3.0-E	3'-0"	3'-0"	3'-0"	(4) #5 EW TOP & BOT
F4.0-E	4'-0"	4'-0"	3'-0"	(5) #5 EW TOP & BOT
F5.0-E	5'-0"	5'-0"	3'-0"	(7) #5 EW TOP & BOT
F6.0-E	6'-0"	6'-0"	3'-0"	(7) #5 EW TOP & BOT

SCHEDULE - COLUMN	
TYPE MARK	TYPE
C4.4	HSS4x4x1/4
C5.4	HSS5x5x1/4
C5.6	HSS5x5x3/8



1

FOUNDATION PLAN

1/8" = 1'-0"

SHEET NOTES:

A. REFERENCE SHEET S00x FOR STRUCTURAL GENERAL NOTES. REVIEW NOTES & DETAILS FOR APPLICABILITY.

B. SEE ARCHITECTURAL DRAWING FOR DETAILS & DIMENSIONS NOT SHOWN.

C. REFER TO S0xx FOR TYPICAL DETAILS.

D. TOP OF SLAB ELEVATION = 100'-0" UNO WHICH EQUALS FFE 997.00 PER CIVIL.

E. TOP OF TRENCH FOOTING ELEVATION = 99'-4" UNO. THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE 3'-0" MIN BELOW GRADE, DEEPEN FOOTINGS AS REQUIRED. GRADE IS GENERALLY 6" BELOW FINISH FLOOR ELEVATION (COORDINATE WITH CIVIL).

F. SPREAD FOOTINGS DENOTED ON PLAN BY "Fx.x". REFER TO SCHEDULE ON THIS SHEET FOR SIZE AND REINFORCING.

G. PROVIDE BLOCKOUTS IN SLAB FOR COLUMNS PER TYPICAL DETAIL.

H. STEEL COLUMNS ARE DENOTED ON PLAN AS "Cx.x". REFER TO SCHEDULE ON THIS SHEET FOR COLUMN SIZE, BASEPLATE TYPE, AND BASEPLATE DIMENSIONS.

PLAN NOTES:

- 4" CONCRETE SLAB ON GRADE. REINF W/ 6x6 W2.1xW2.1 WWR. RE: GENERAL NOTES. GRANULAR FILL, VAPOR BARRIER AND JOINTING REQUIREMENTS
- 16" WIDE x 3'-0" DEEP TRENCH FOOTING. REINF W/ (2) #5 CONT TOP & BOT & #3 TIES @ 48" OC
- 6" CONCRETE PATIO SLAB ON GRADE W/ #5 @ 12" OC. RE: GENERAL NOTES FOR REINFORCING, GRANULAR FILL, VAPOR BARRIER AND JOINTING REQUIREMENTS
- INCREASE FOOTING WIDTH 6" @ 2/S500
- 6" CFS WALL @ 16" OC 18 GA MIN BY STUD SUPPLIER
- STOREFRONT GLAZED PANELS WALL, RE: ARCH
- CONCRETE STOOP RE: TYPICAL DETAIL
- 16" WIDE x 1'-0" DEEP TIE BEAM. REINF W/ (2) #5 CONT TOP & BOT AND #3 TIES @ 48" OC
- 24" WIDE x 3'-0" DEEP TRENCH FOOTING. REINF W/ (3) #5 CONT TOP & BOT & #3 TIES @ 24" OC
- 8" FULLY GROUTED CMU WALLS, RE: 5/S500

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A NEW BUILDING FOR:

ASSOCIATED PLASTIC SURGEONS

I-470 BUSINESS & TECHNOLOGY CENTER
NE McBAIN DRIVE
LEE'S SUMMIT, MISSOURI



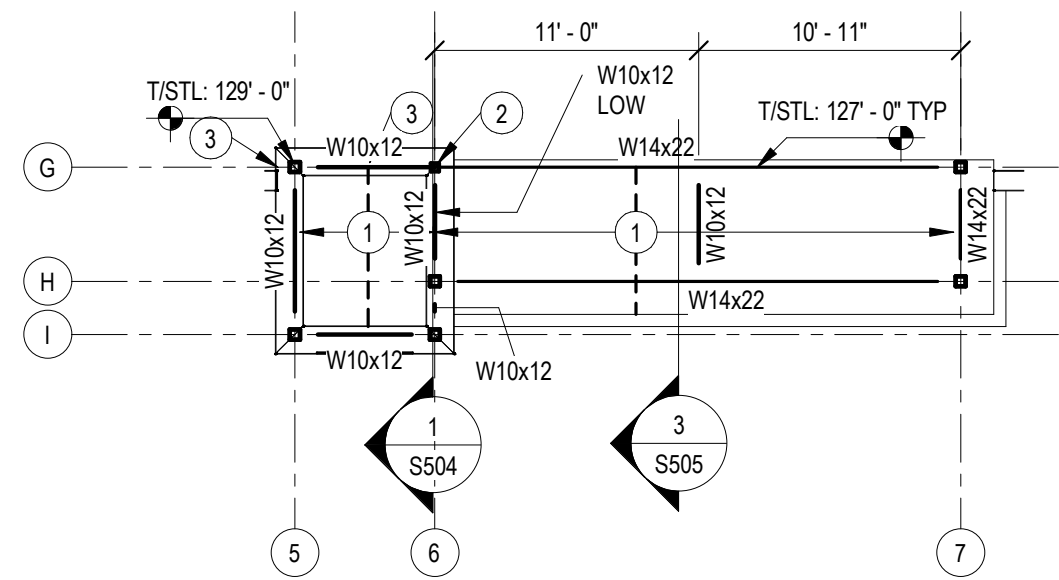
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NO.	REVISION	DATE

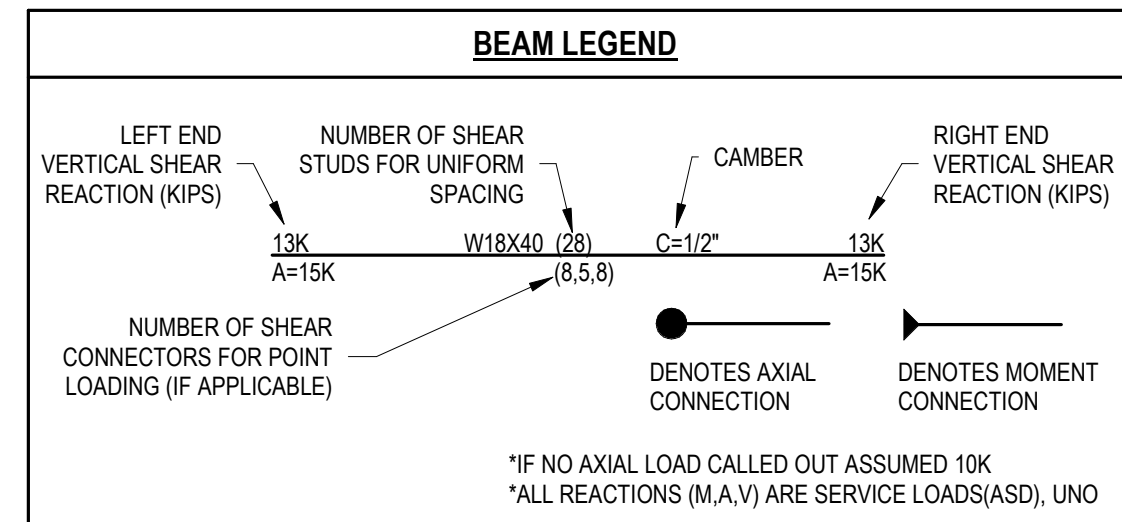
SHEET NUMBER

S100

FOUNDATION PLAN



- PLAN NOTES:**
- 600S162-43 STUDS @ 24" OC.
 - HSS4X4X1/4 EXTENSION ON TOP OF W14X22. WELD ALL AROUND THE BASE W/ 1/4" FILLET. T/STL COLUMN SHOWN = 129'-0" = B/ROOF, RE: ARCH FOR B/ROOF.
 - 6" CFS WALL @ 16" OC 18 GA MIN BY STUD SUPPLIER. PROVIDE PLATE TO SUPPORT BRICK WALL WHEREVER WALL DOES NOT STACK DOWN.



- SHEET NOTES:**
- REFERENCE SHEET S00x FOR STRUCTURAL GENERAL NOTES. REVIEW NOTES FOR APPLICABILITY.
 - SEE ARCHITECTURAL DRAWING FOR DETAILS & DIMENSIONS NOT SHOWN.
 - REFER TO S0x FOR TYPICAL FRAMING DETAILS.
 - MAXIMUM JOIST SPACING SHALL BE 6'-0" OC MAX.

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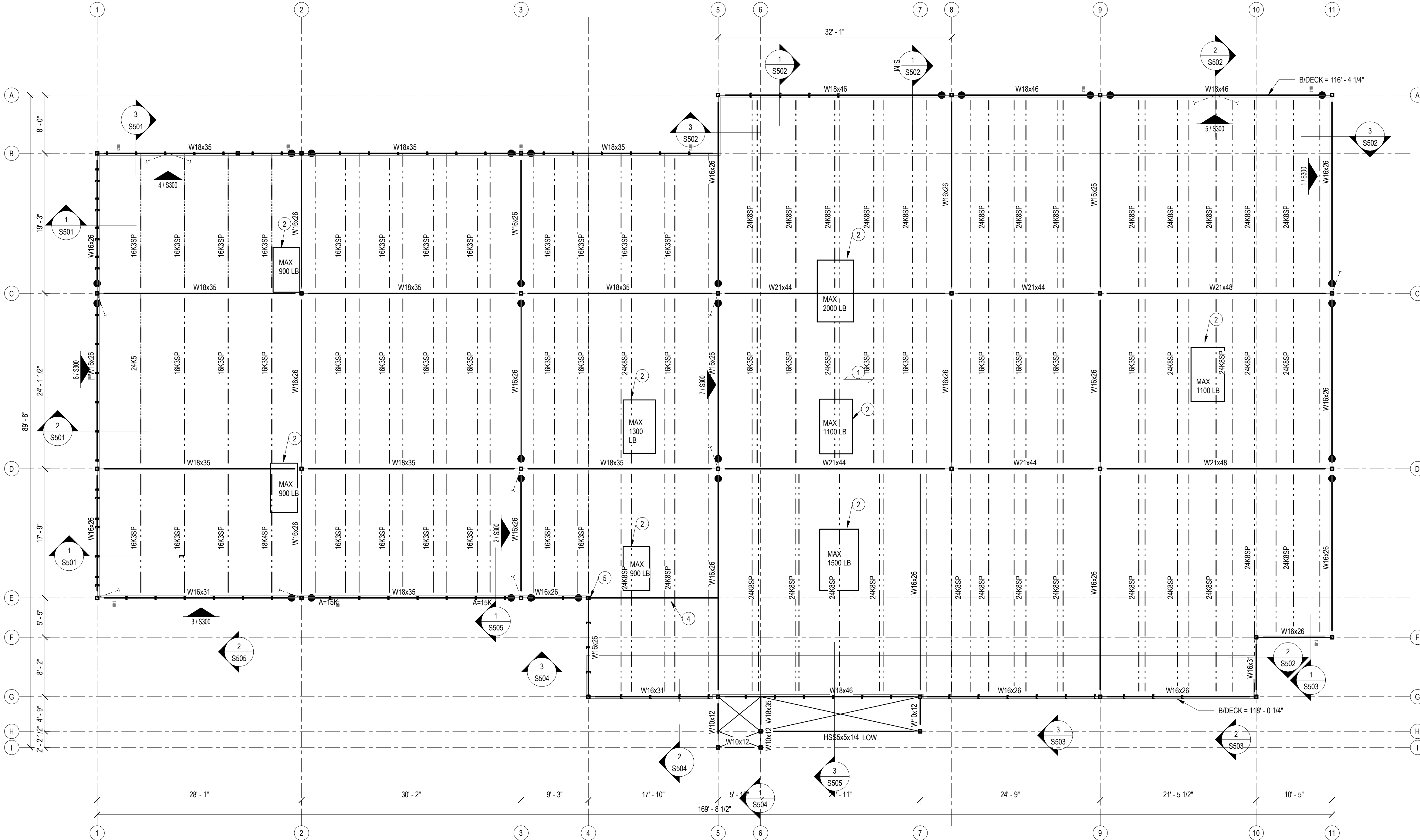
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2 HIGH ROOF

1/8" = 1'-0"



- PLAN NOTES:**
- 1 1/2" DEEP x 22 GA TYPE B ROOF DECK RE: GENERAL NOTES FOR FASTENING REQUIREMENTS
 - PROVIDE L6x4x5/16 (LLV) AROUND ROOF HATCH & RTU OPENINGS PER TYP DETAILS. COORD SIZE & LOCATION W/ ARCH AND MECH. ALL DUCT DROPS SHALL PASS BETWEEN STRUCTURAL FRAMING. DO NOT CUT ANY BEAMS OR JOISTS
 - DESIGN KSP JOIST FOR 270/150 LOADING PLUS ADD-LOAD SHOWN ON PLAN FOR ANY LOCATION ALONG THE TOP CHORD. CONTRACTOR TO PROVIDE JOIST REINFORCEMENT AT RTU CURB AS SHOWN PER DETAIL
 - L4X4X1/4 ON TOP OF BAR JOISTS. WELD TO TOP OF BEAM/JOIST FLANGES WITH 1/4" FILLET ON EACH SIDE MIN 3"
 - FIELD WELD ANGLE TO COLUMN W/ 1/4" WELD ALL AROUND.

1 ROOF FRAMING PLAN

1/8" = 1'-0"

A NEW BUILDING FOR:

ASSOCIATED PLASTIC SURGEONS

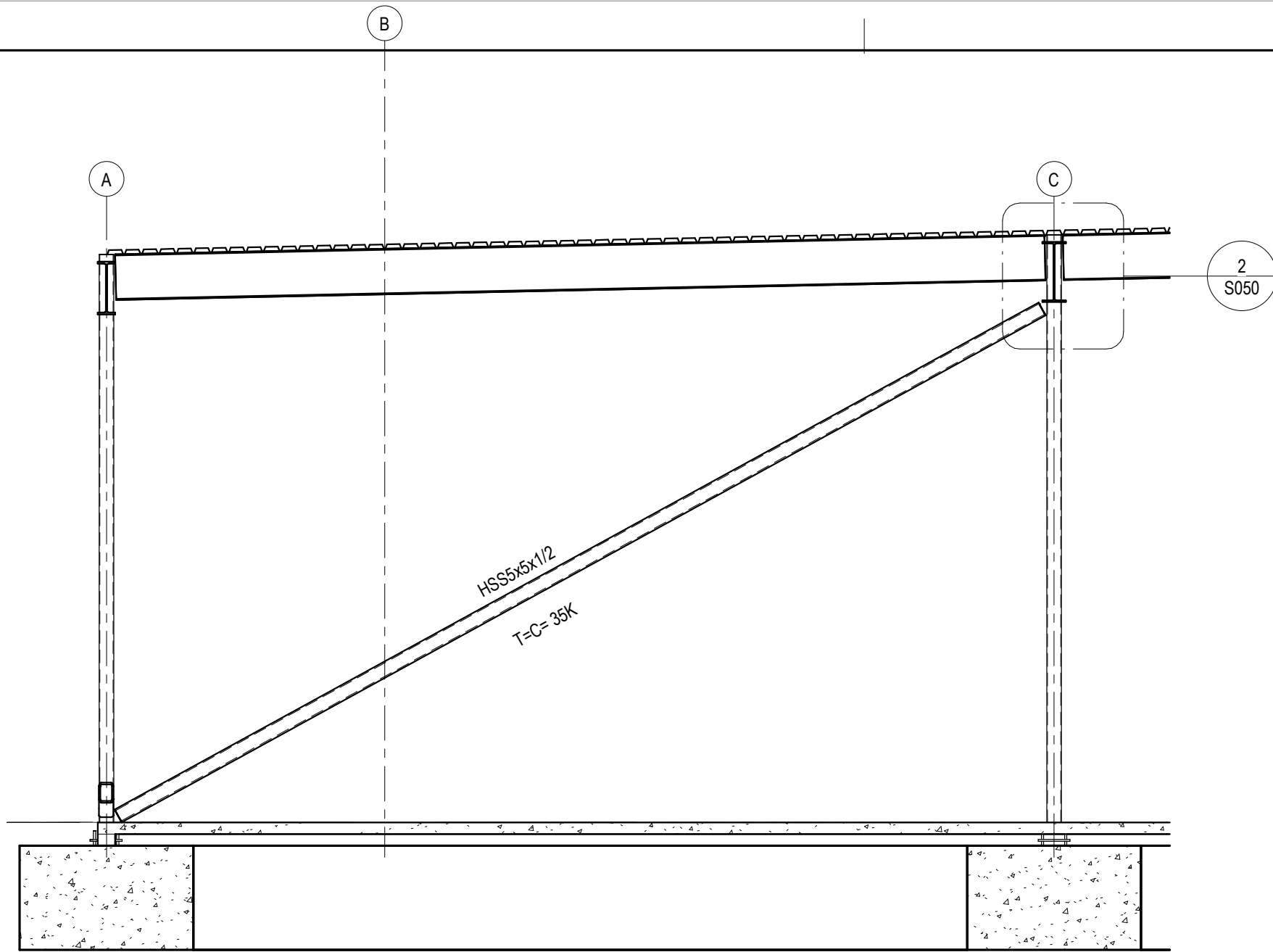
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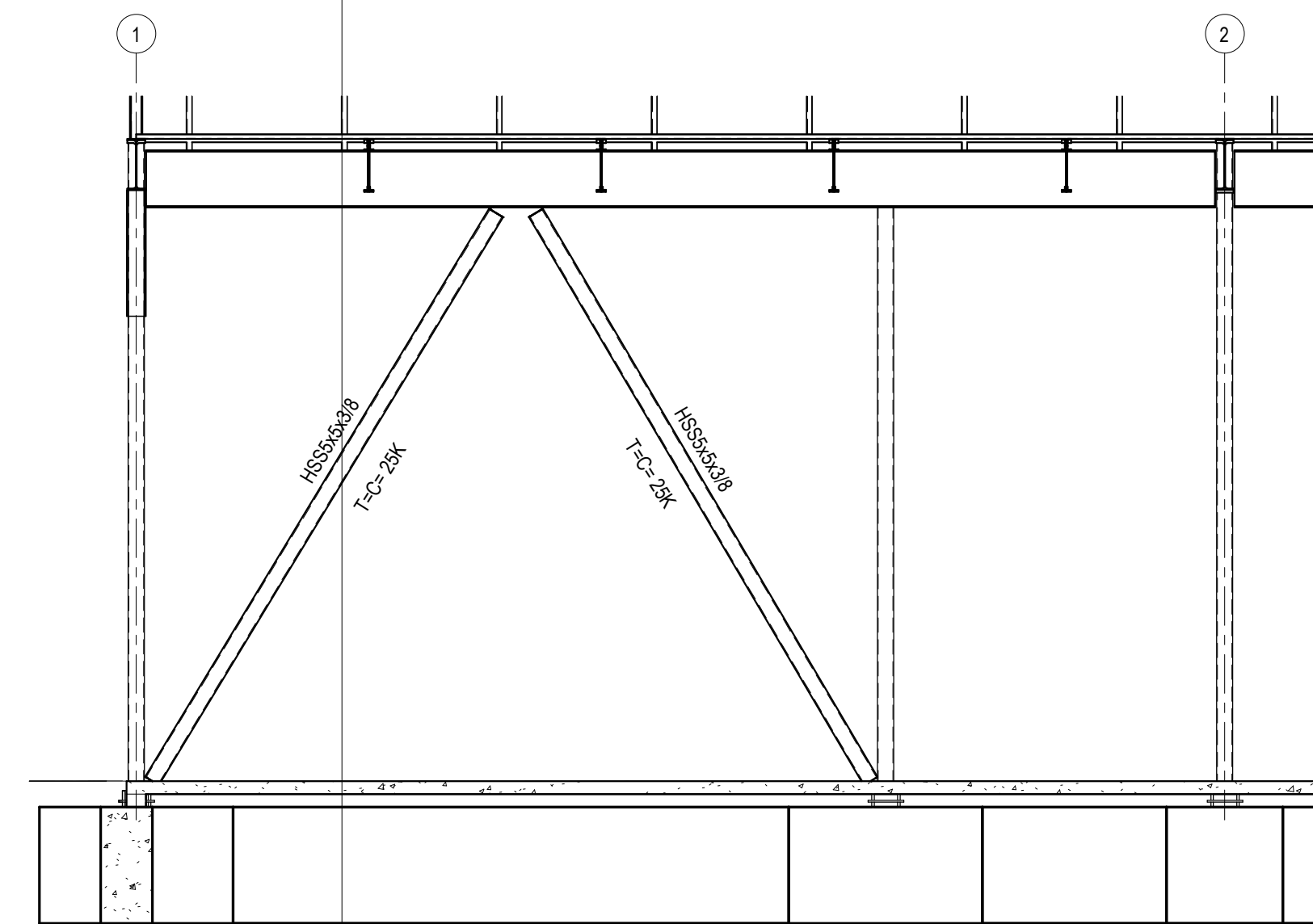
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NO.	REVISION	DATE

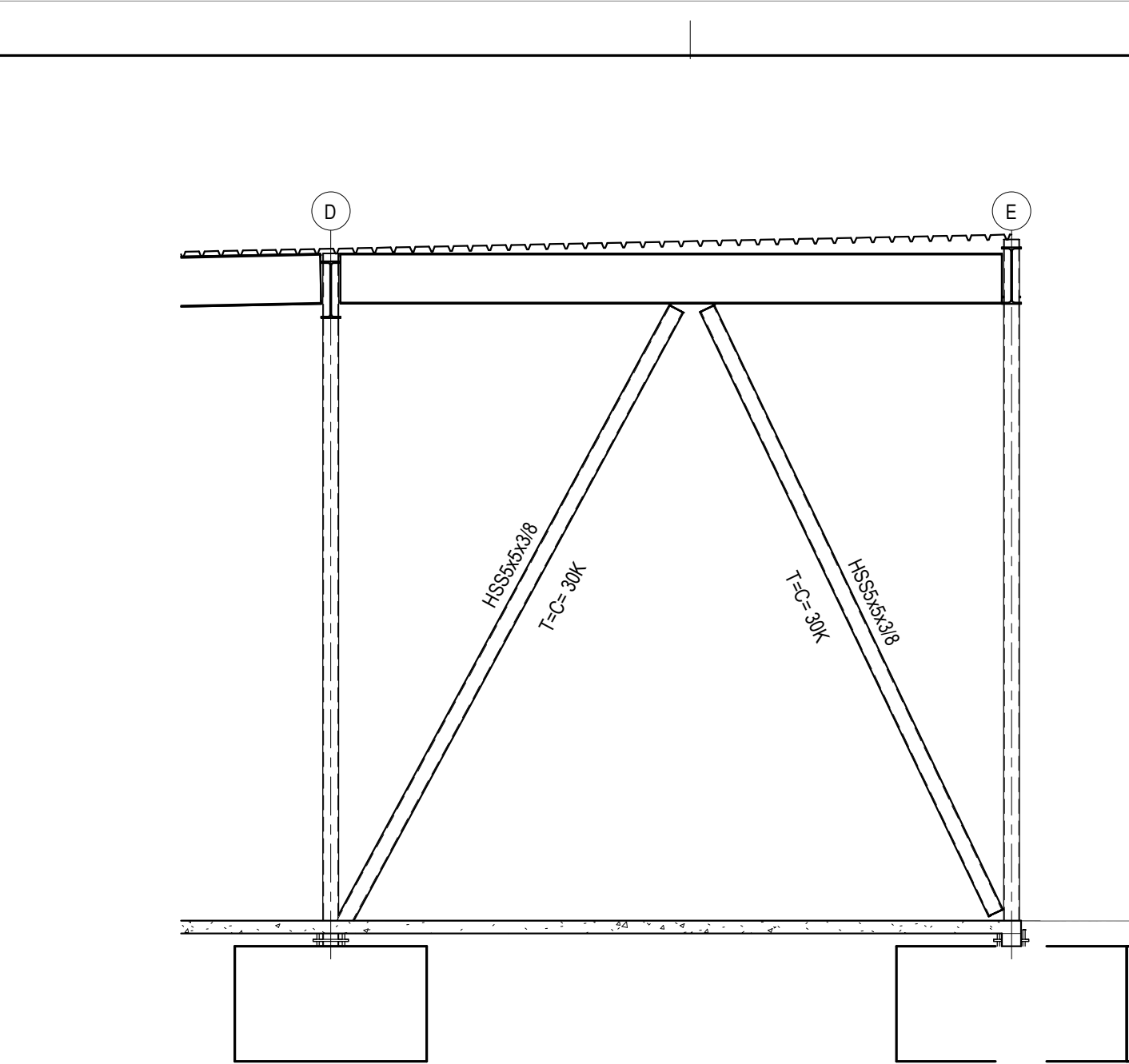
SHEET NUMBER
S101
ROOF FRAMING PLAN



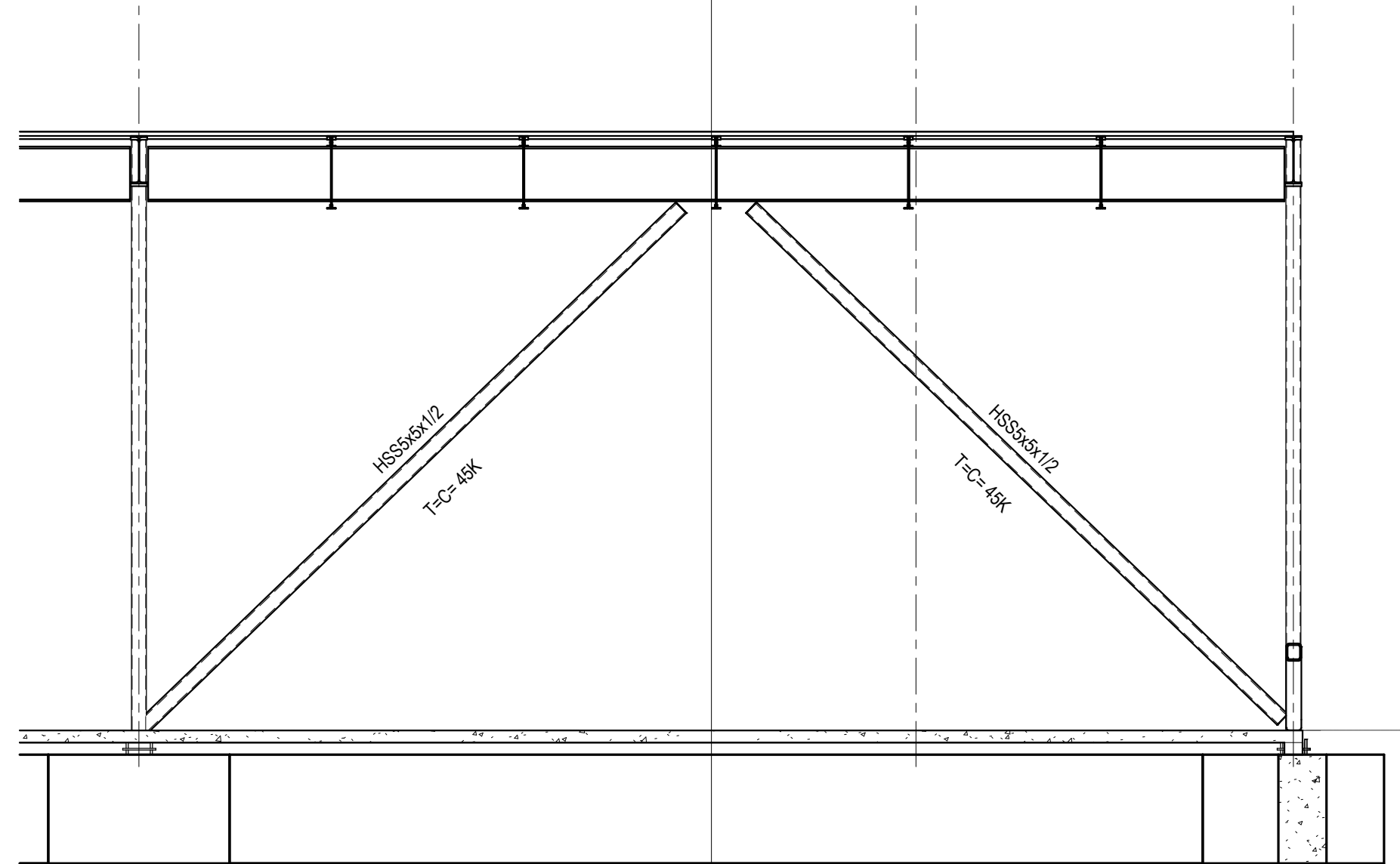
1 Elevation 1 - a
1/4" = 1'-0" S501



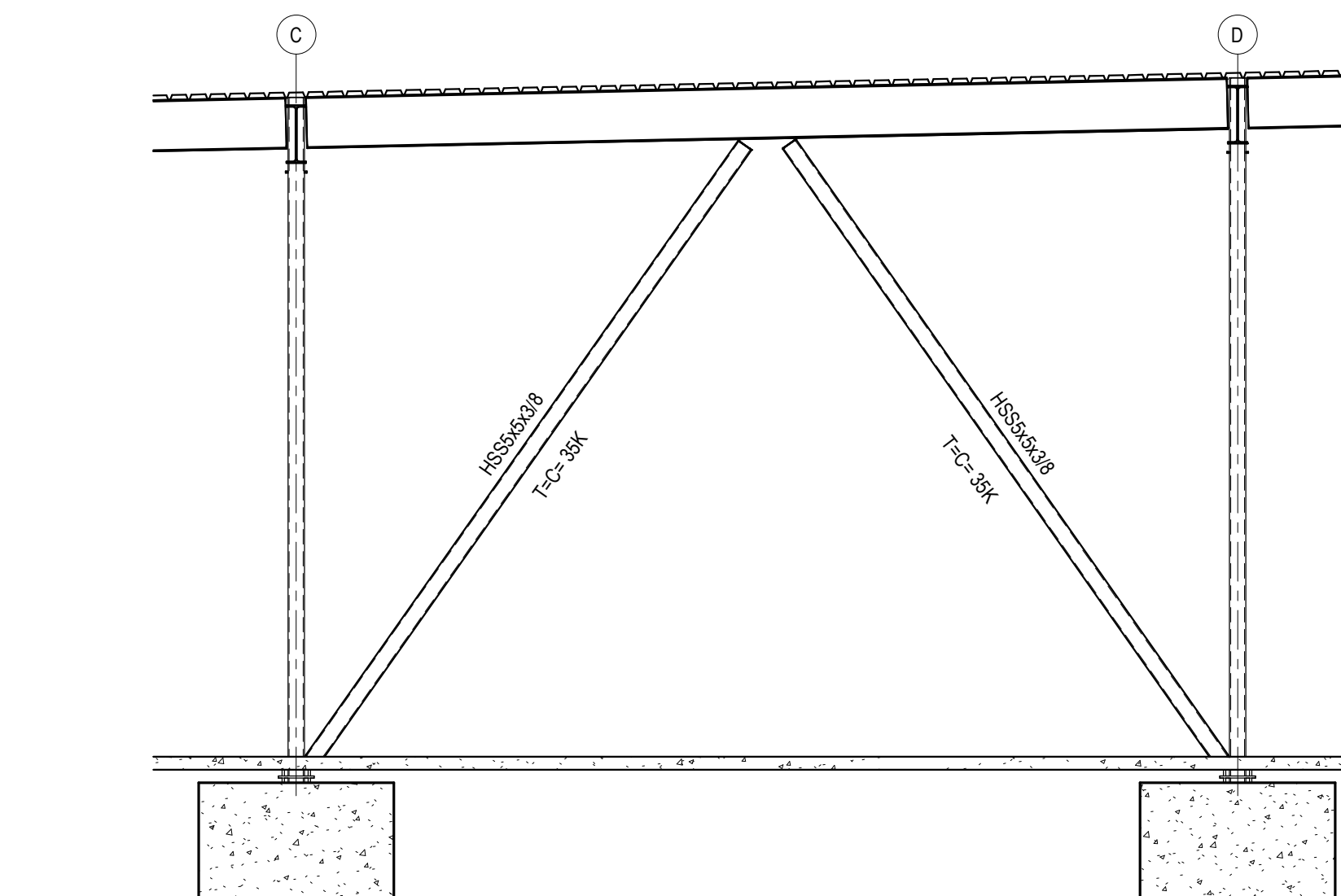
4 Elevation 4 - a
1/4" = 1'-0"



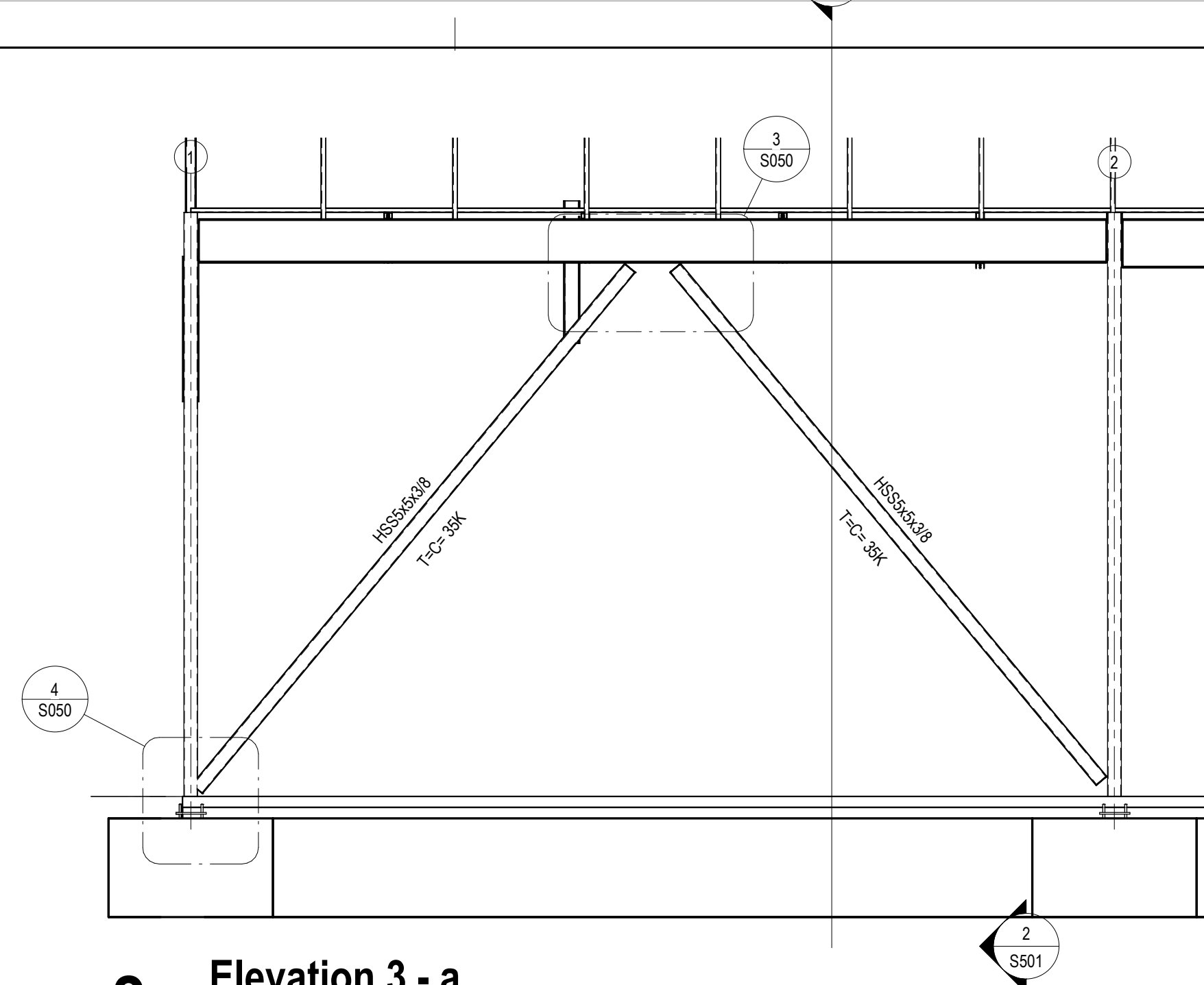
2 Elevation 2 - a
1/4" = 1'-0"



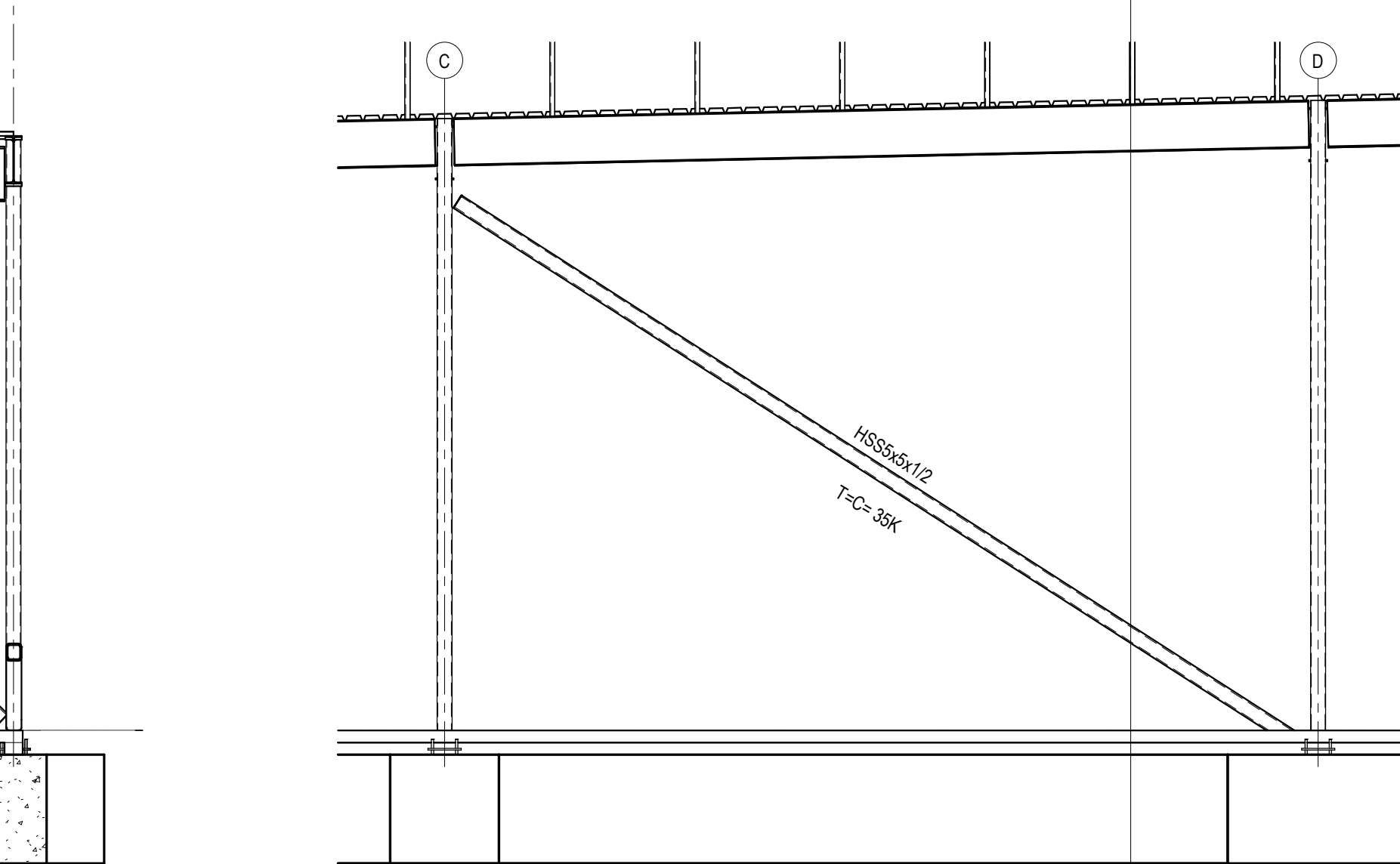
5 Elevation 5 - a
1/4" = 1'-0"



7 Elevation 7 - a
1/4" = 1'-0"



3 Elevation 3 - a
1/4" = 1'-0"

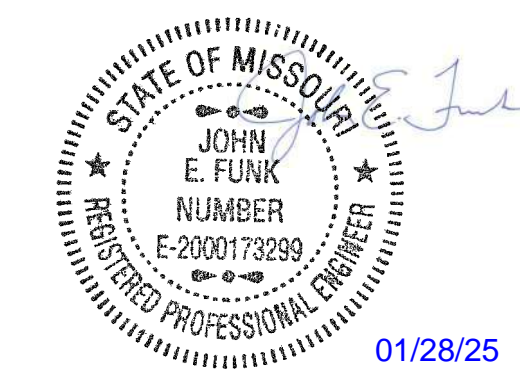


6 Elevation 6 - a
1/4" = 1'-0"

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I-470 BUSINESS & TECHNOLOGY CENTER
NE McBAIN DRIVE
LEE'S SUMMIT, MISSOURI



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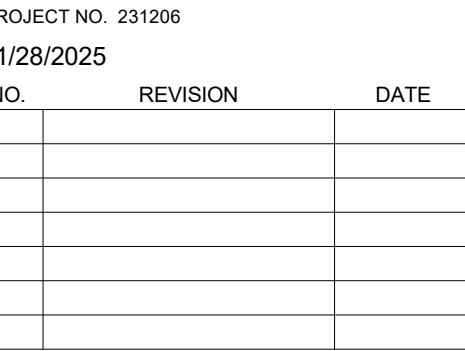
SHEET NUMBER

S300

BRACE ELEVATIONS



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NE McBAIN DRIVE
LEE'S SUMMIT, MISSOURI



FOUNDATION SECTIONS



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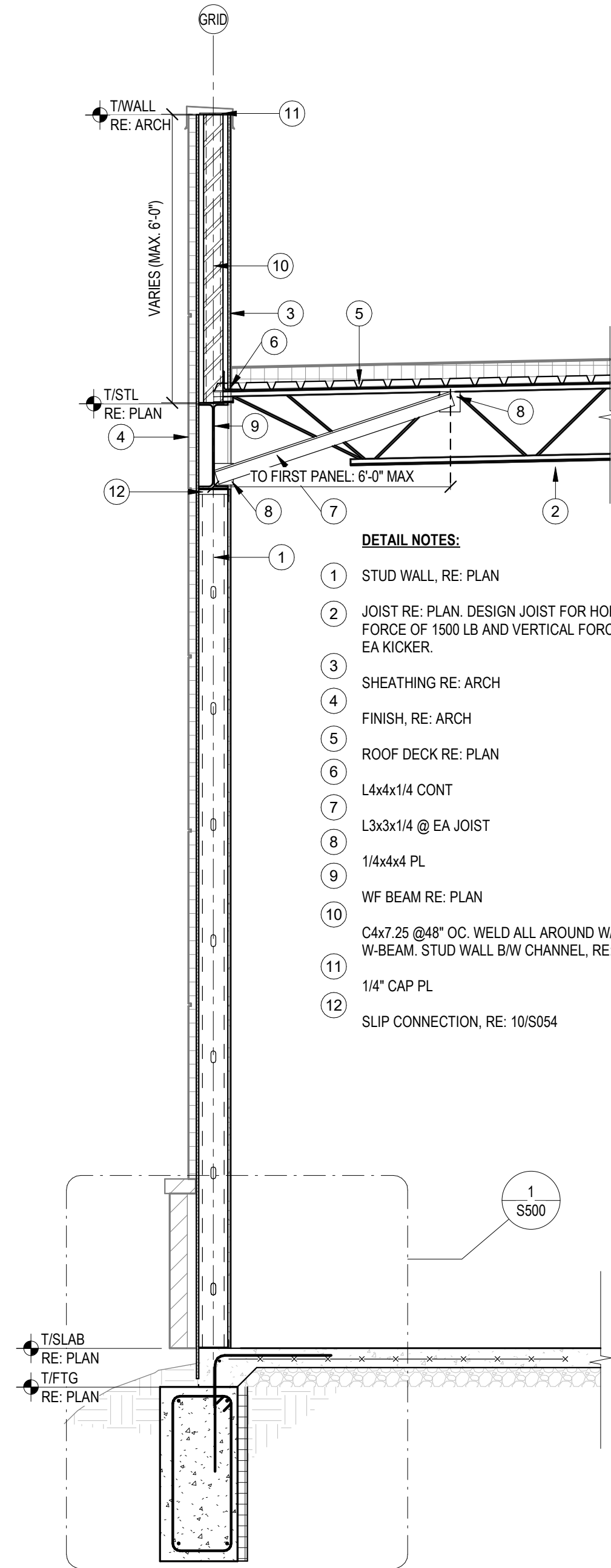
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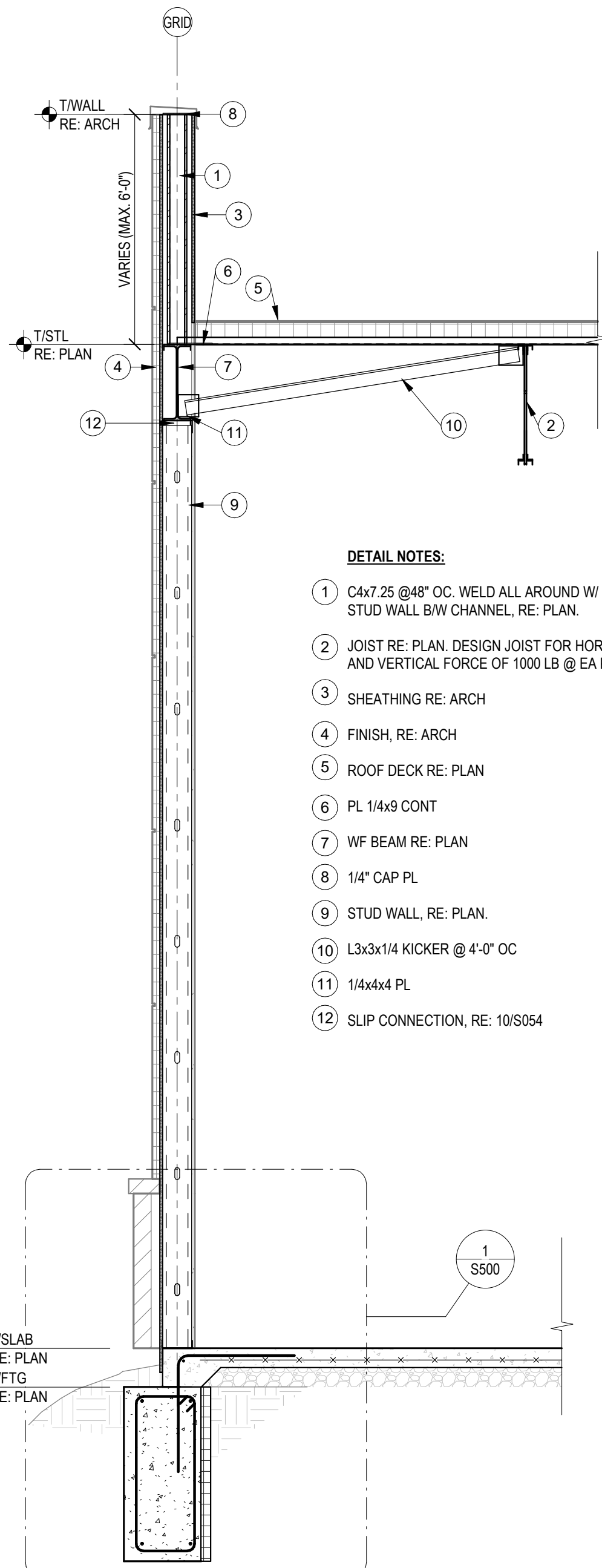
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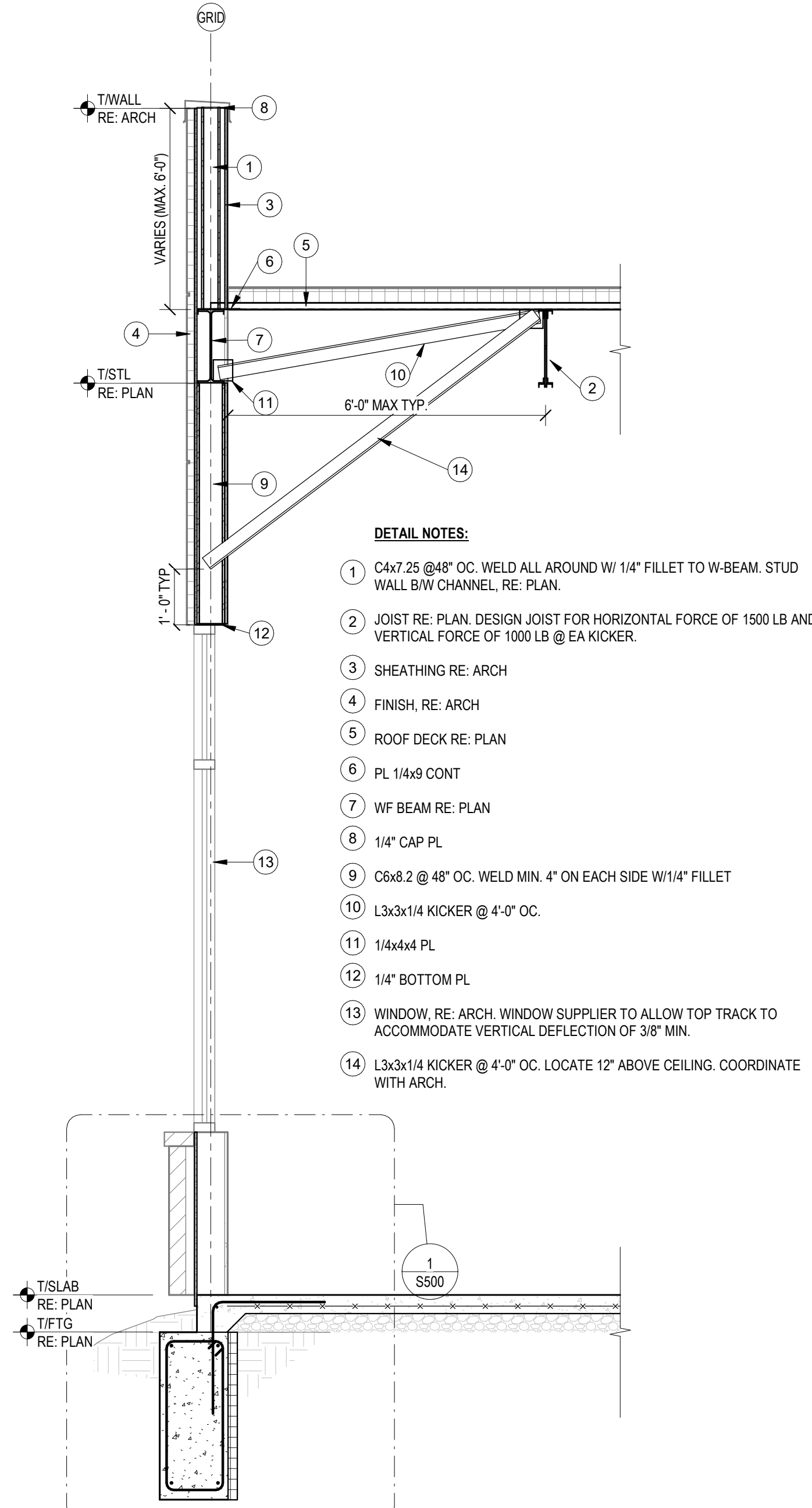
ROOF FRAMING SECTIONS



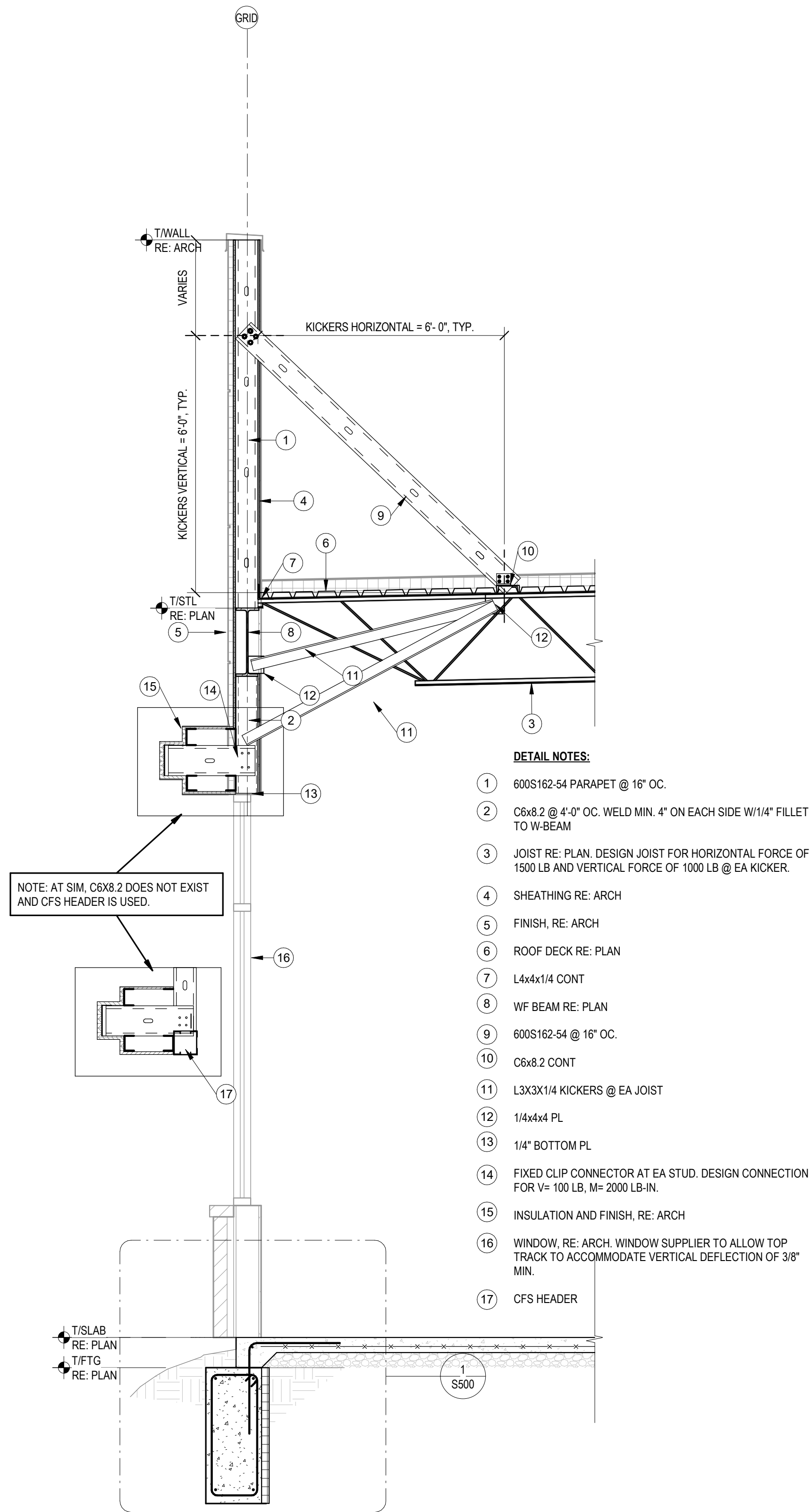
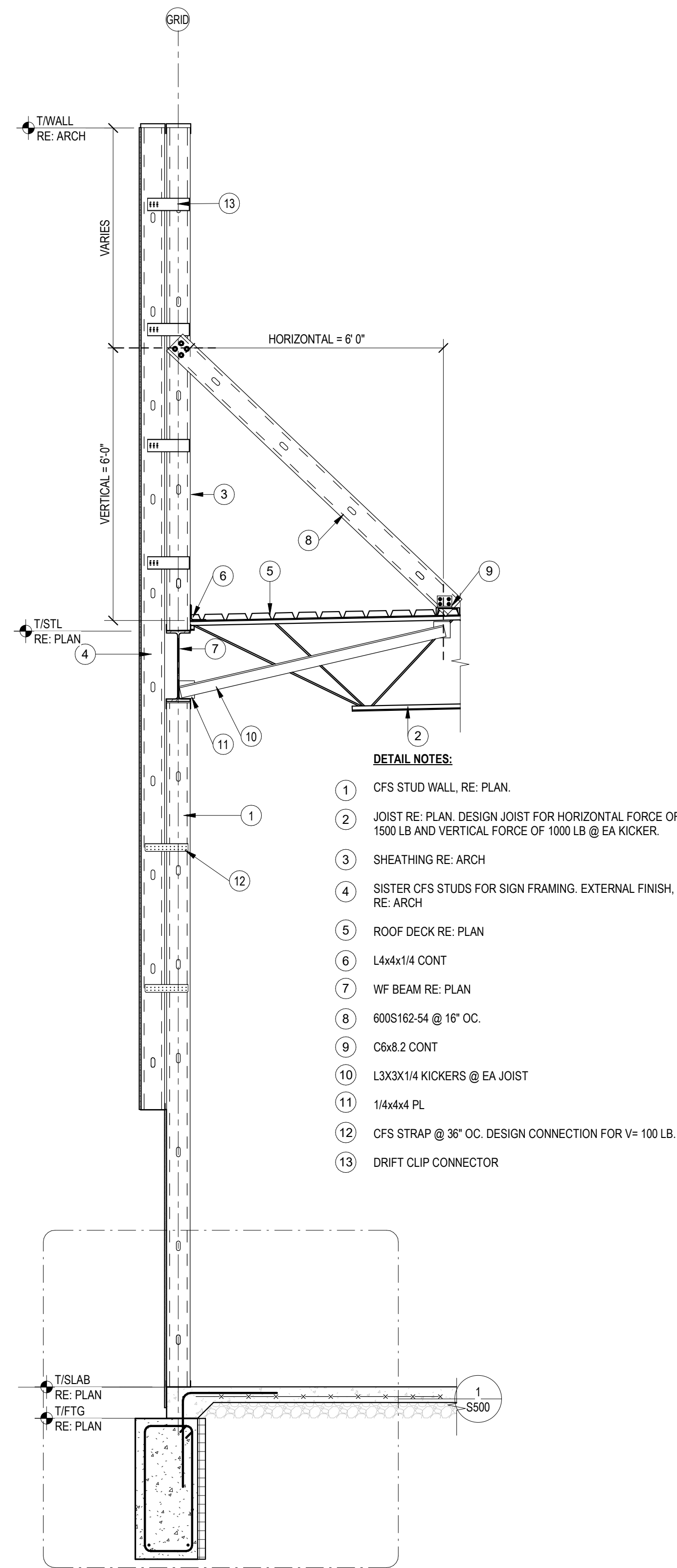
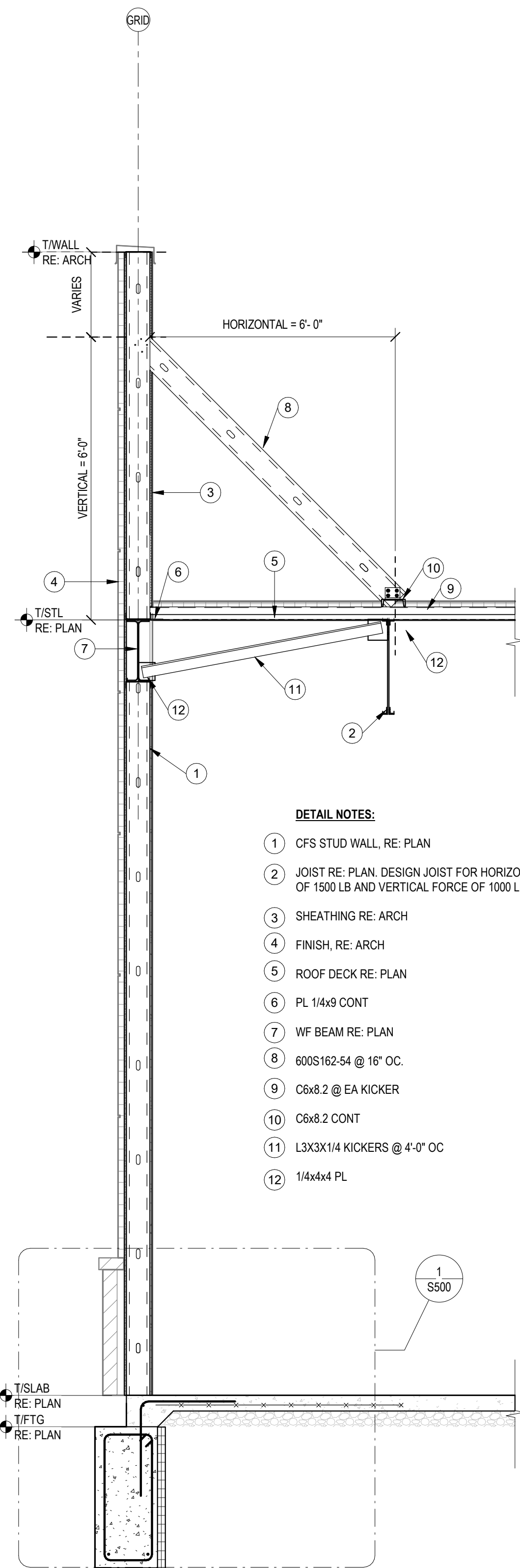
3 SECTION 3
1/2" = 1'-0"



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



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



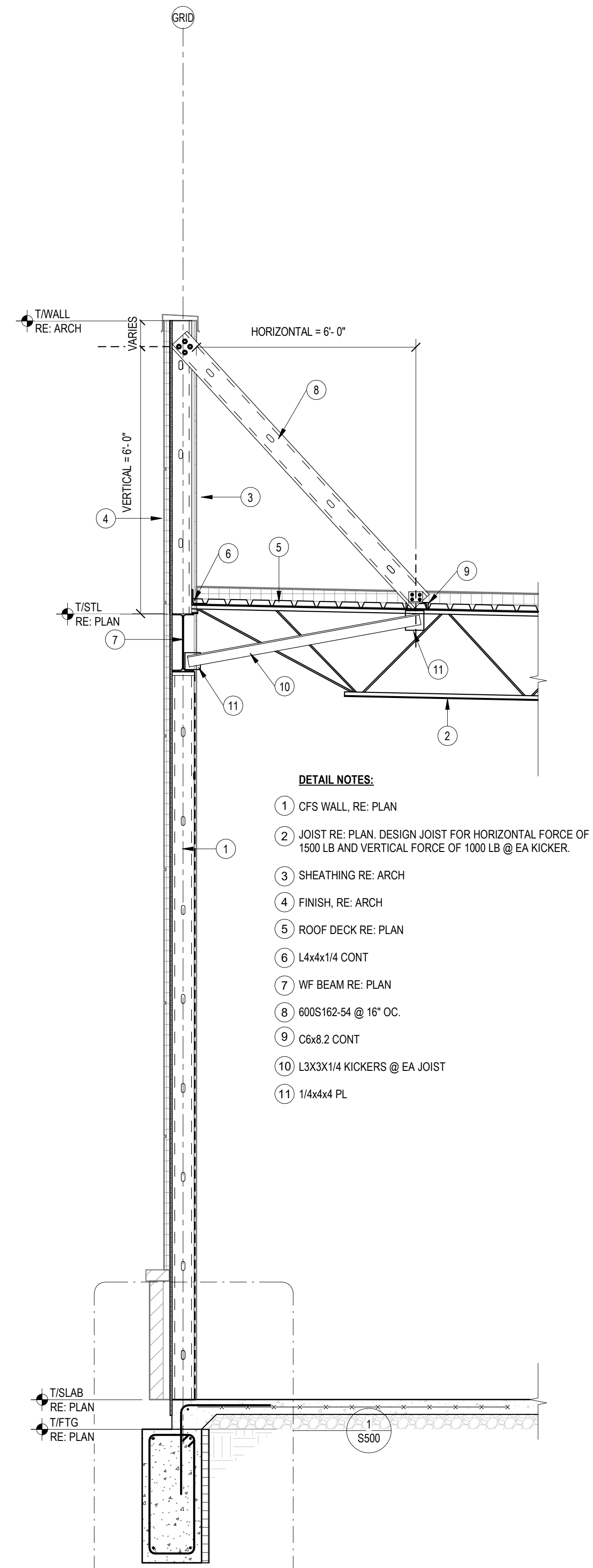
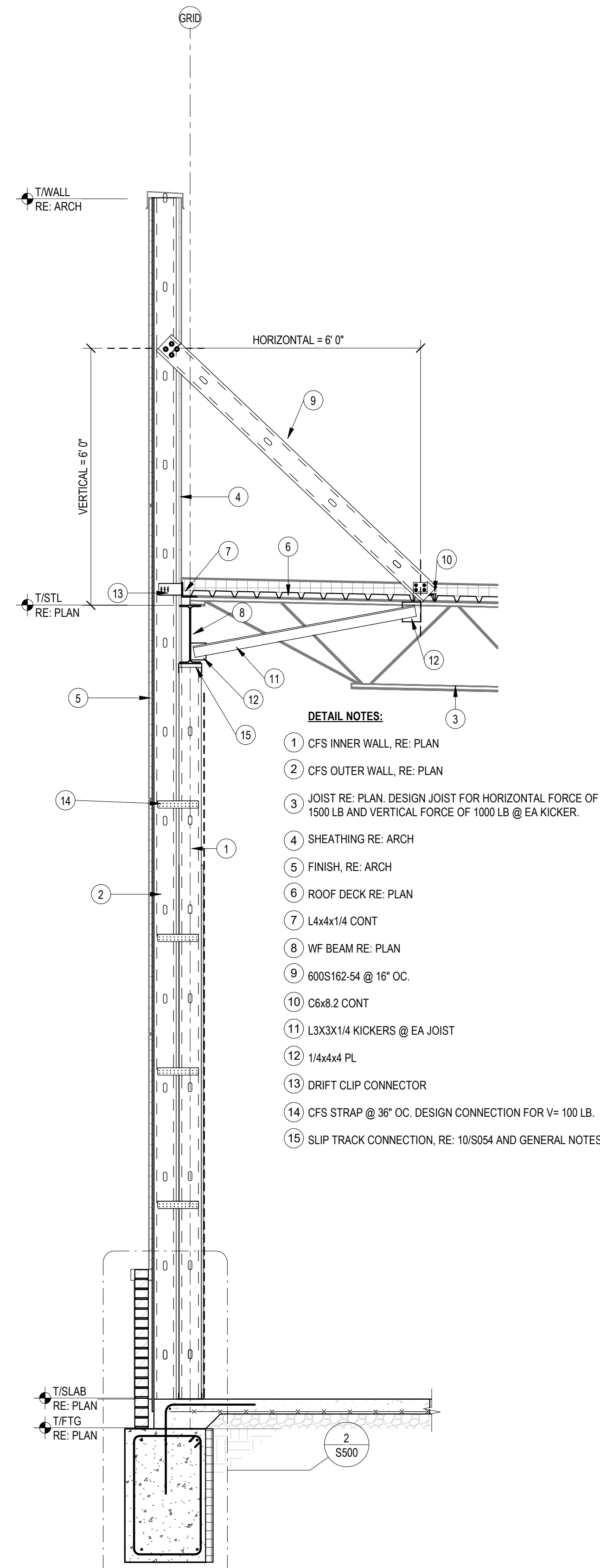
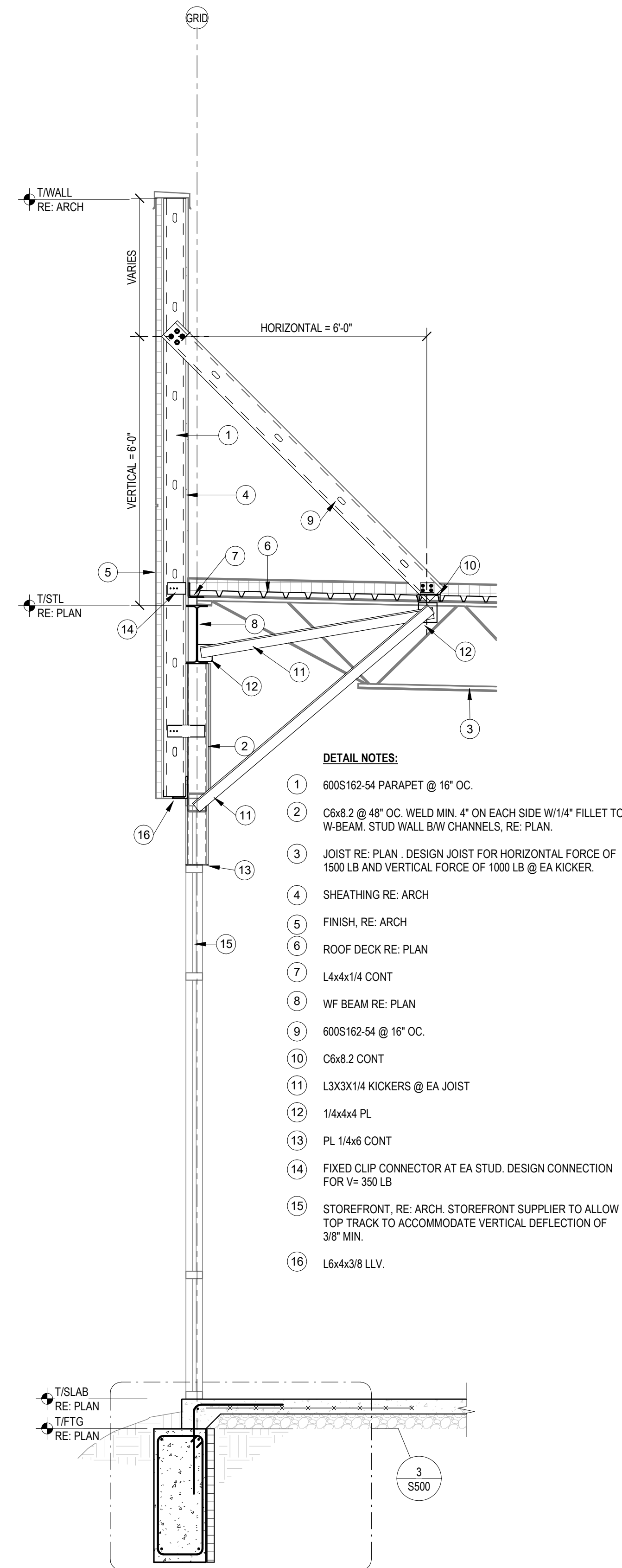
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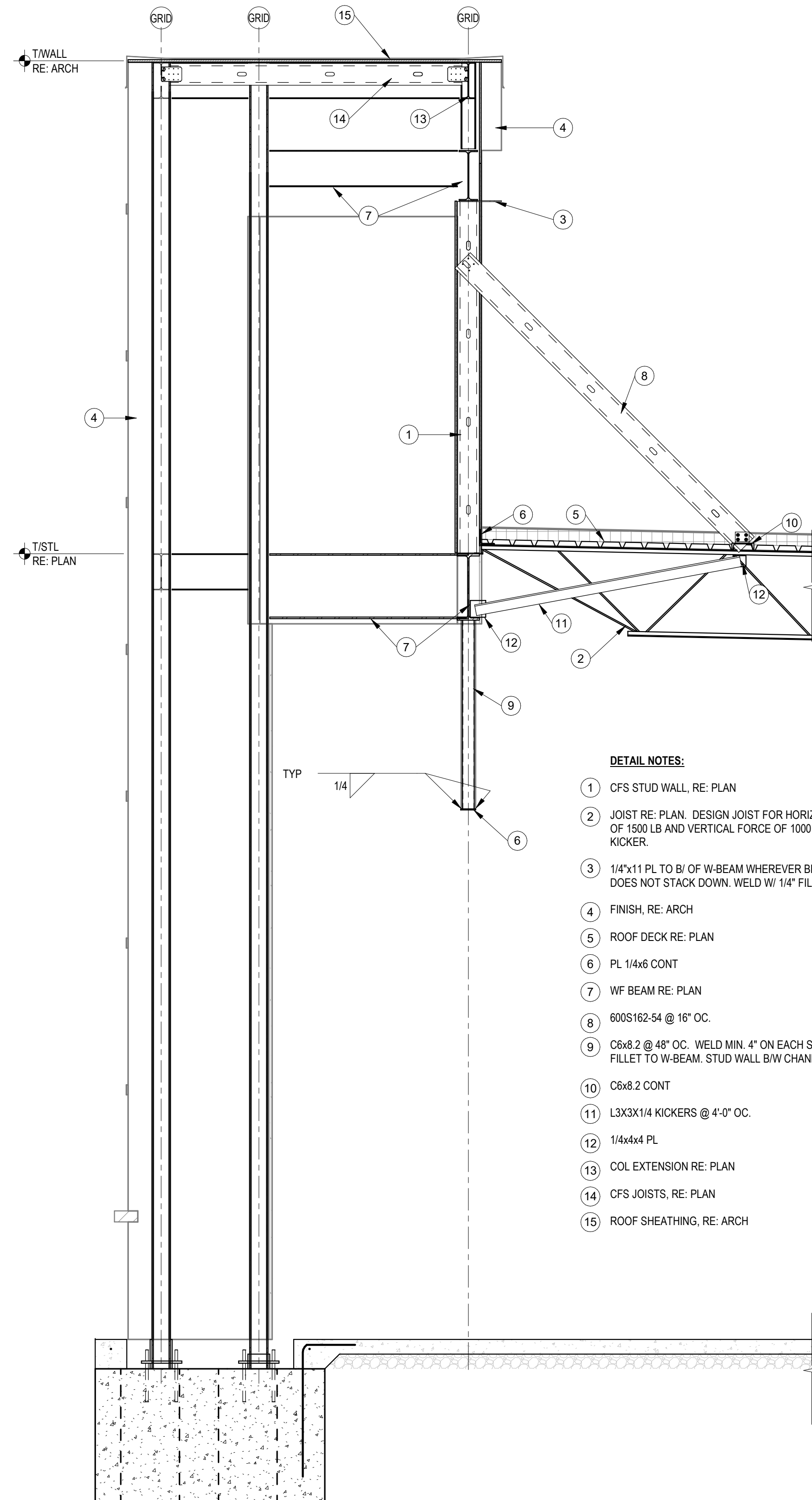
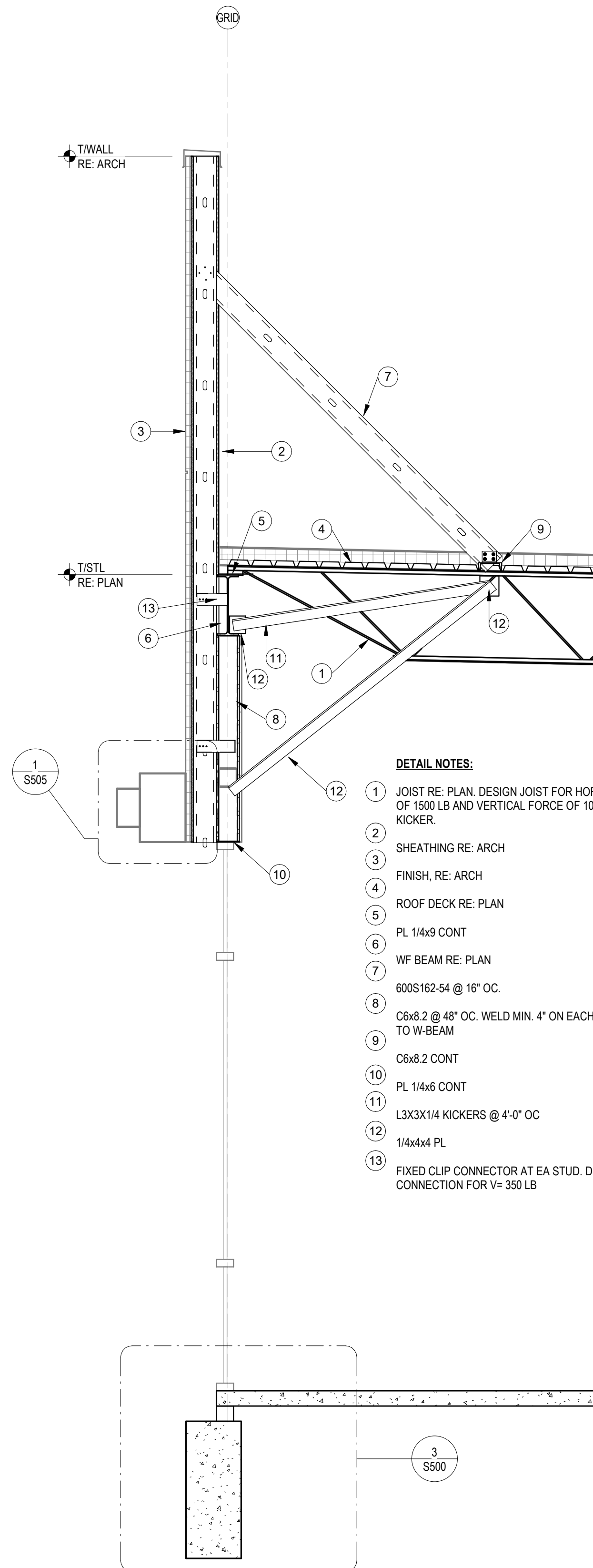
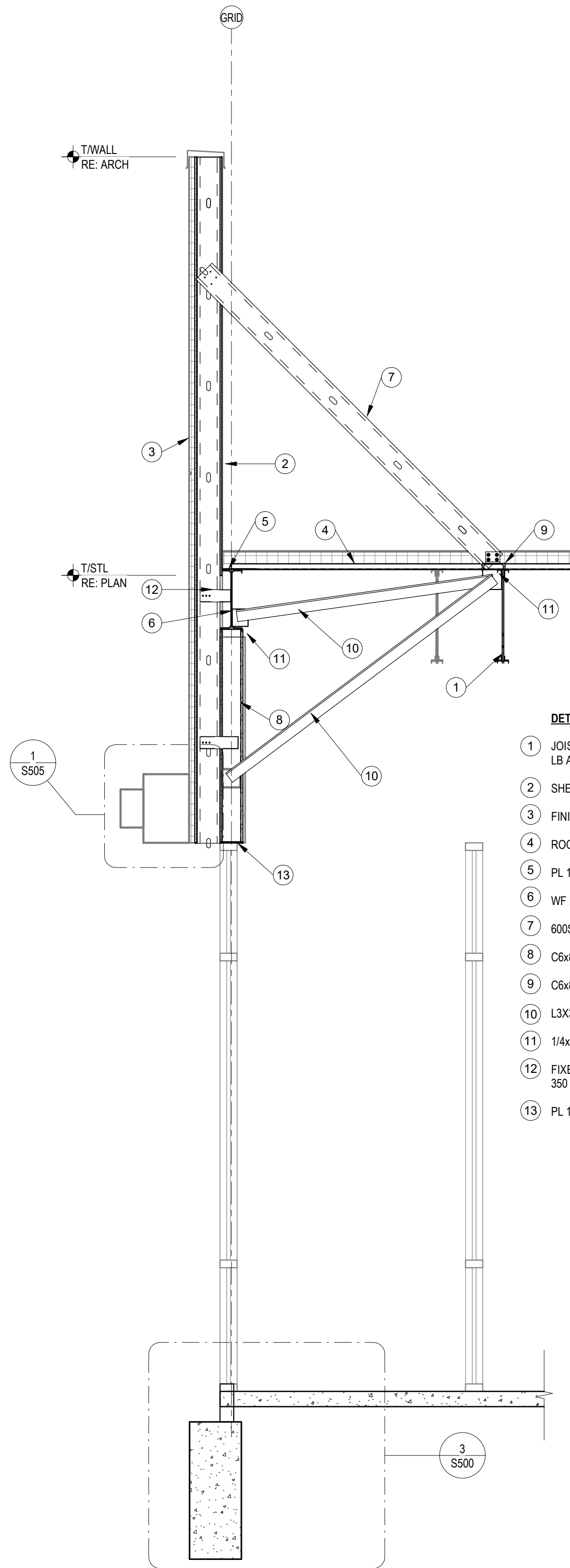
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3 SECTION 12
1/2" = 1'-0"

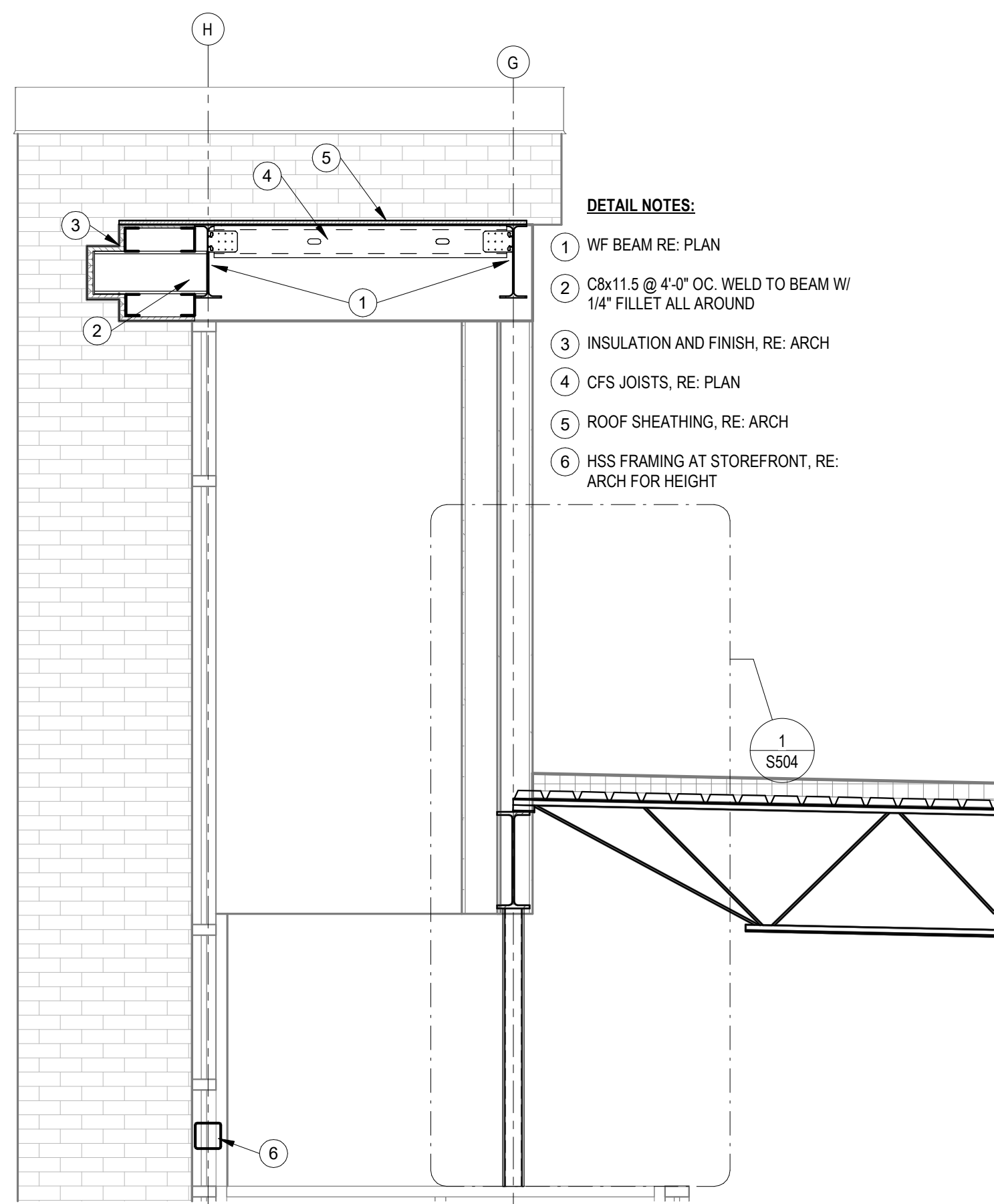
2 SECTION 11
1/2" = 1'-0"

1 SECTION 10
1/2" = 1'-0"

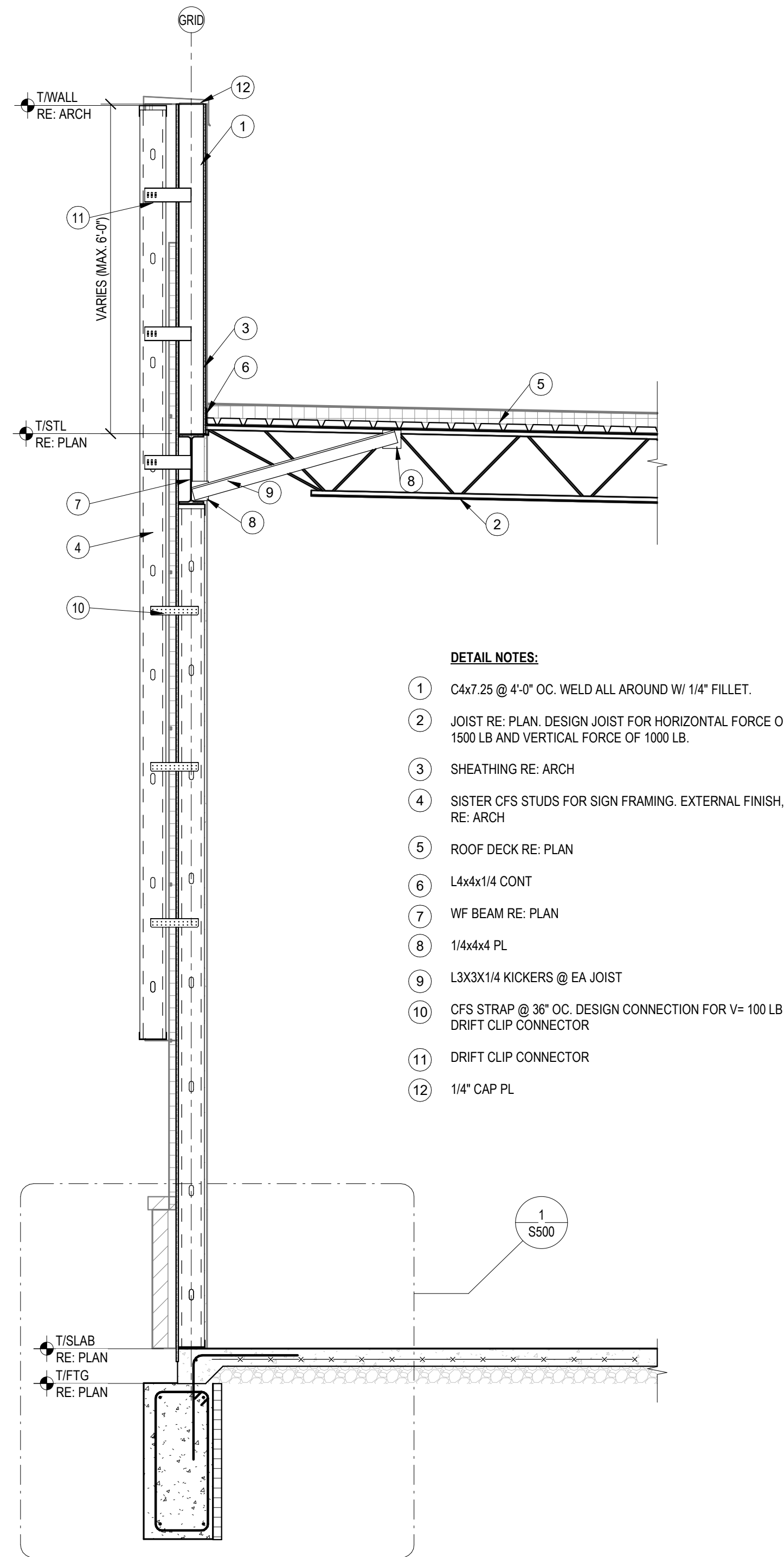
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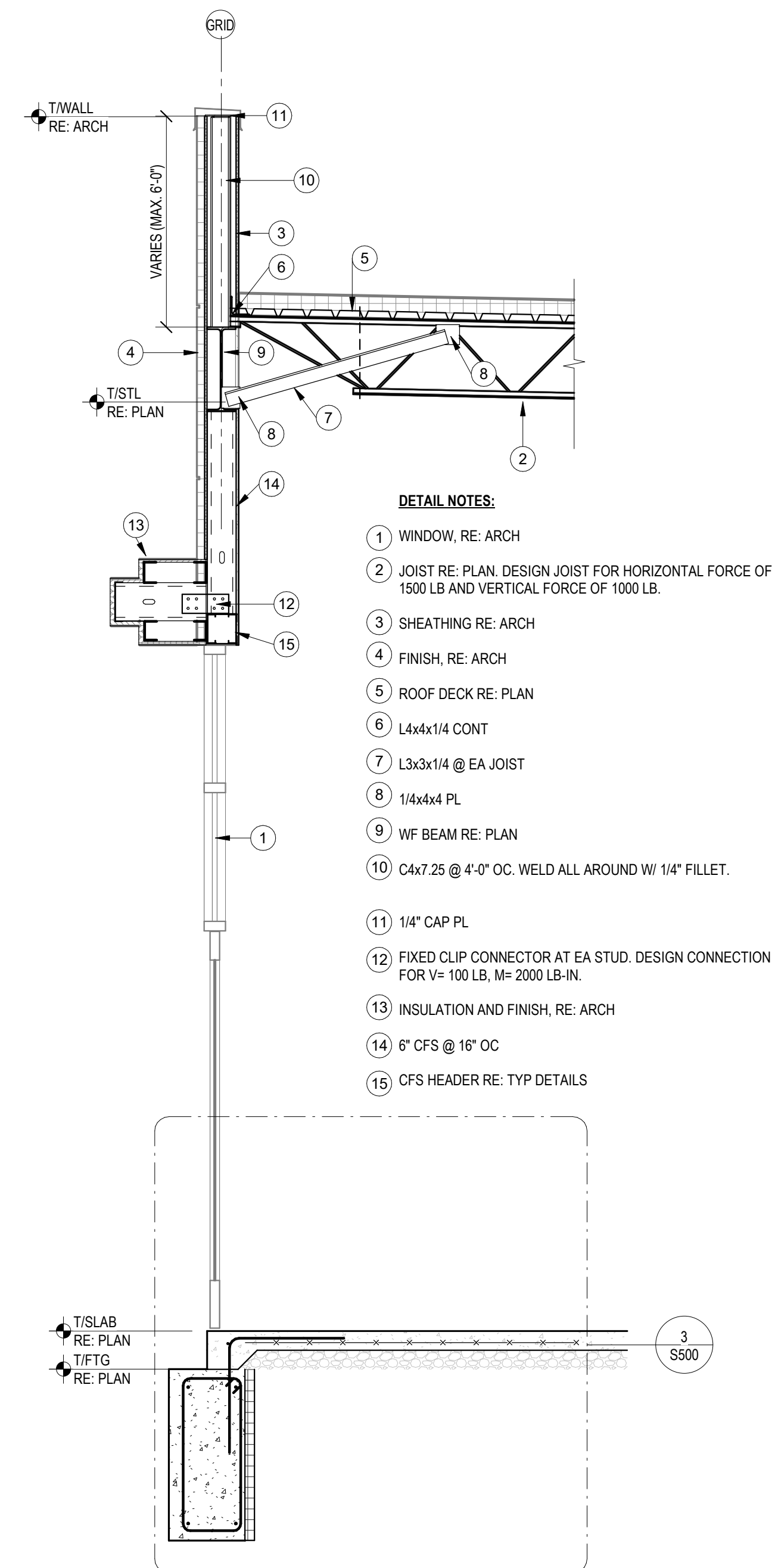
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3 SECTION 16
1/2" = 1'-0"



2 SECTION 14
1/2" = 1'-0"



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

ASSOCIATED PLASTIC SURGEONS

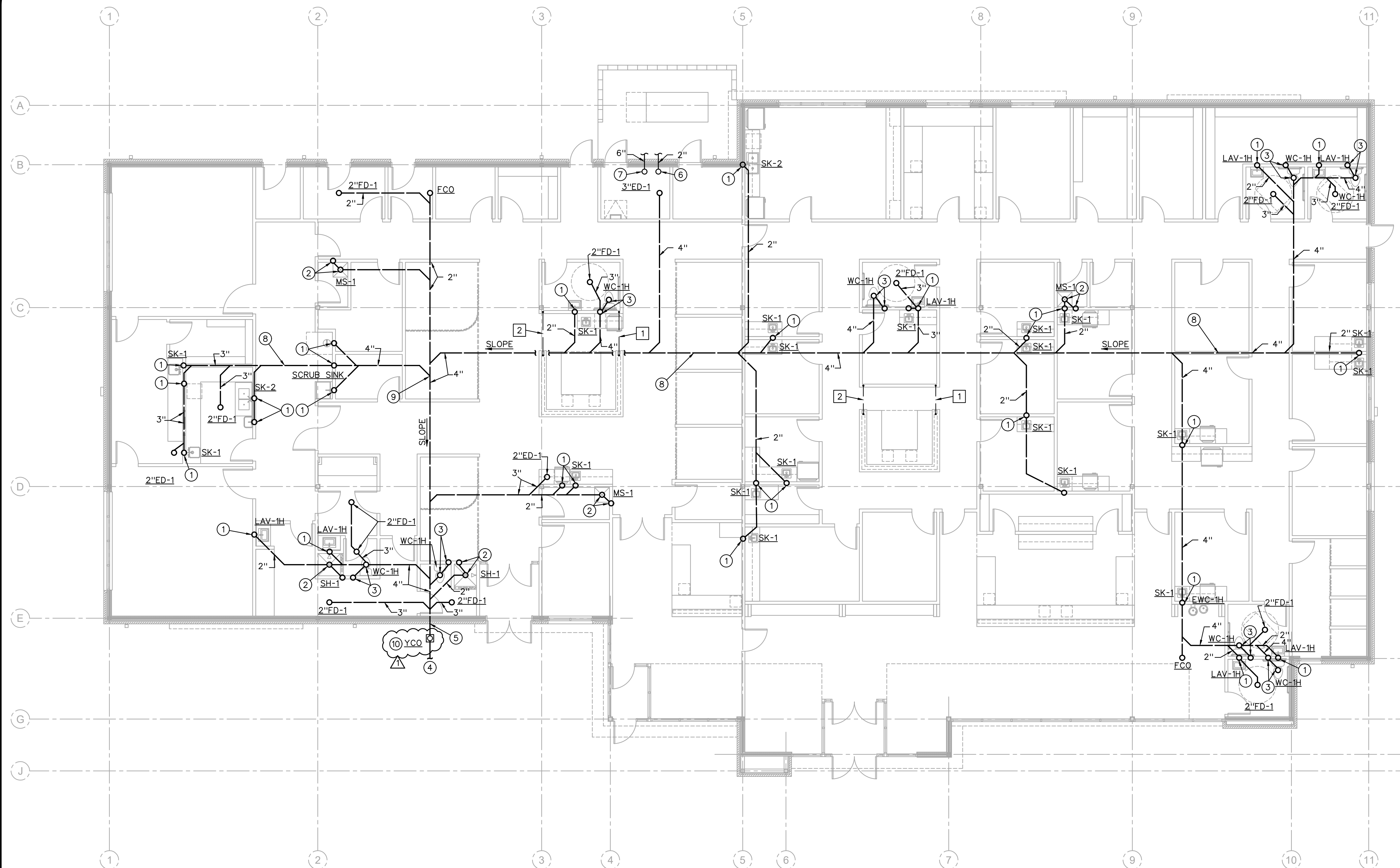
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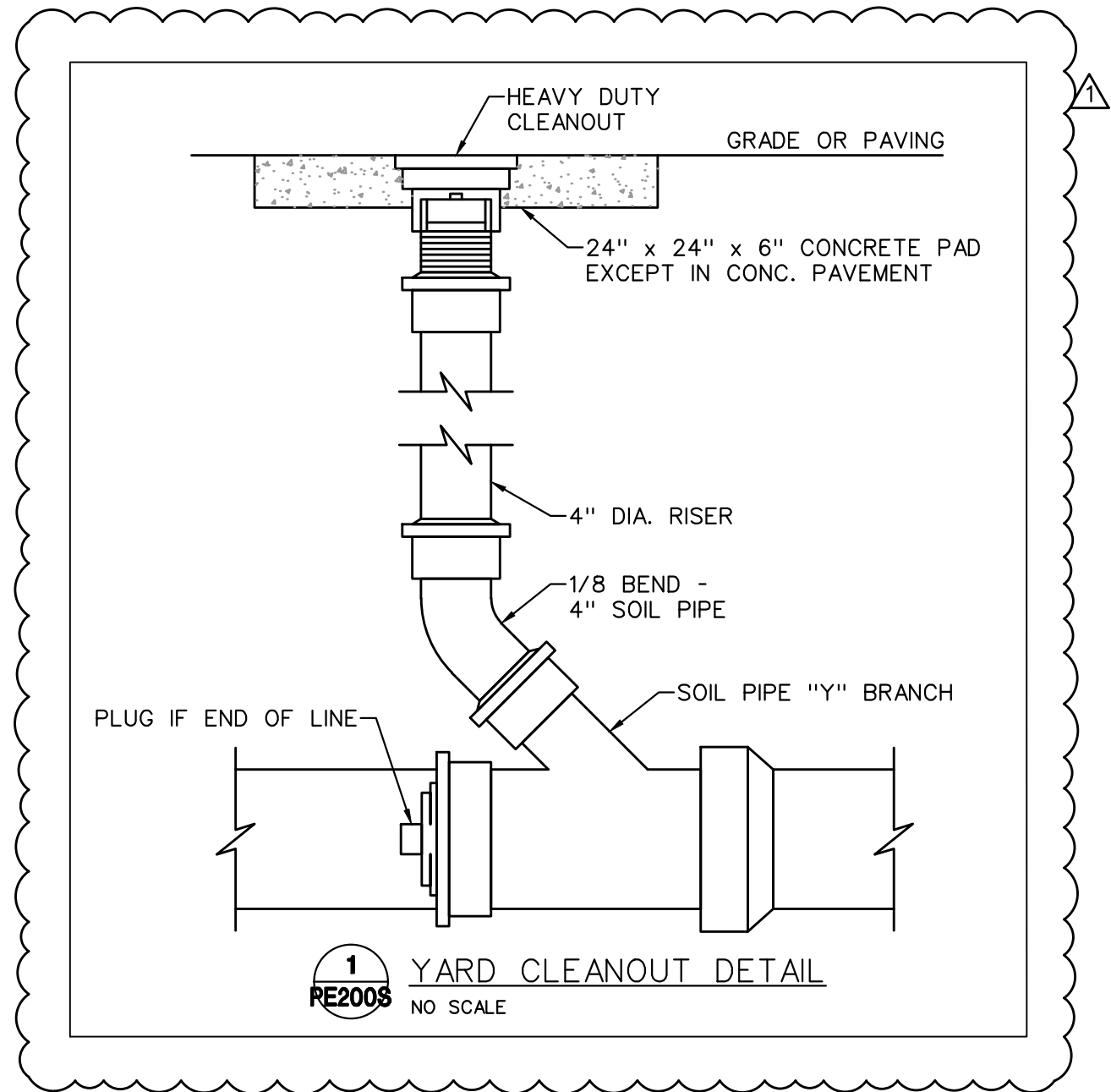


PROJECT NO. 231206	01/28/2025	NO.	REVISION	DATE

SHEET NUMBER
S505
ROOF FRAMING SECTIONS



PLUMBING/ELECTRICAL UNDERFLOOR PLAN
1/8" = 1'-0"



PLUMBING PLAN NOTES

- 2" W UP TO FUTURE SINK, LAVATORY OR EQUIPMENT.
- 2" W UP TO FUTURE MOP SINK OR SHOWER, 2" V OVER AND TURN UP INTO FUTURE WALL.
- 4" S UP TO FUTURE WATER CLOSET, 2" V OVER AND TURN UP INTO FUTURE WALL.
- SEE SITE UTILITIES PLAN FOR CONTINUATION. COORDINATE WITH CIVIL DRAWINGS
- MINIMUM INVERT ELEVATION -42.125'.
- EXTEND 2" CW UP THROUGH FLOOR AND INSTALL BALL VALVE AND CAPPED CW SERVICE (FOR FUTURE EXTENSION).
- EXTEND 6" FIRE SUPPRESSOR SERVICE UP THROUGH FLOOR AND INSTALL APPROVED GATE VALVE WITH BLIND FLANGE (FOR FUTURE EXTENSION).
- SLOPE SANITARY AND WASTE PIPING A MINIMUM OF 1/8"/FT. (3" AND LARGER) AND 1/4"/FT (2-1/2" AND SMALLER).
- SLOPE FROM THIS POINT TO THE EXTERIOR WALL SHALL BE A MINIMUM OF 1/4"/FT.
- INSTALL YARD CLEANOUT WITHIN 30" OF EXTERIOR WALL. SEE DETAIL THIS SHEET.

ELECTRICAL PLAN NOTES

- 1" CONDUIT INSTALLED BELOW GRADE FOR DATA CABLES AT NURSES STATION. STUB CONDUIT UP 6" AT BOTH ENDS, INSTALL PULL-STRING AND CAP AT BOTH ENDS FOR FUTURE USE.
- 1" CONDUIT INSTALLED BELOW GRADE FOR WIRING OF RECEPTACLES AT NURSES STATION. STUB CONDUIT UP 6" AT BOTH ENDS, INSTALL PULL-STRING AND CAP AT BOTH ENDS FOR FUTURE USE.



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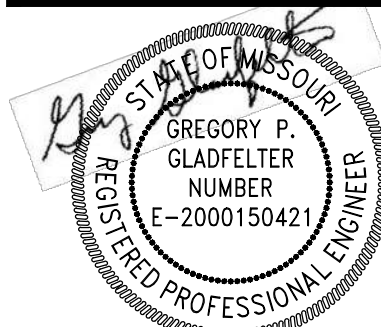
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NE MCBAIN DRIVE
LEE'S SUMMIT, MISSOURI



03/07/2025

PROJECT NO. 231206

DRAWING ISSUANCE

DATE	DESCRIPTION
09/27/2024	BUILDING SHELL PERMIT
02/03/2025	BUILDING SHELL PERMIT
03/07/2025	REVISION #1 CITY COMMENTS

SHEET NUMBER

PE200S
FLOOR PLAN

ROOF/FLOOR

CEILING

FLOOR

②

RISER #1

①

ROOF/FLOOR

CEILING

FLOOR

④

RISER #2

①

③

RISER DIAGRAM NOTES:

- ① PIPING INSTALLED DURING SHELL CONSTRUCTION SHALL BE LIMITED TO PIPING BELOW THE FLOOR.
② SEE RISER #2 FOR CONTINUATION.
③ SEE RISER #1 FOR CONTINUATION.
④ SEE RISER #3 FOR CONTINUATION.
⑤ SEE RISER #4 FOR CONTINUATION.
⑥ SEE "PLUMBING/ELECTRICAL UNDER FLOOR PLAN", SHEET PE 200S, FOR CONTINUATION.

ROOF/FLOOR

CEILING

FLOOR

⑤

RISER #3

①

②

ROOF/FLOOR

CEILING

FLOOR

⑥

RISER #4

①

④

DEV INC

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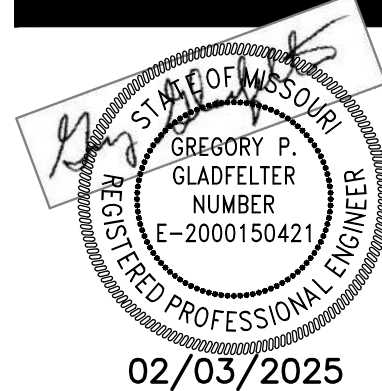
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A NEW BUILDING FOR:

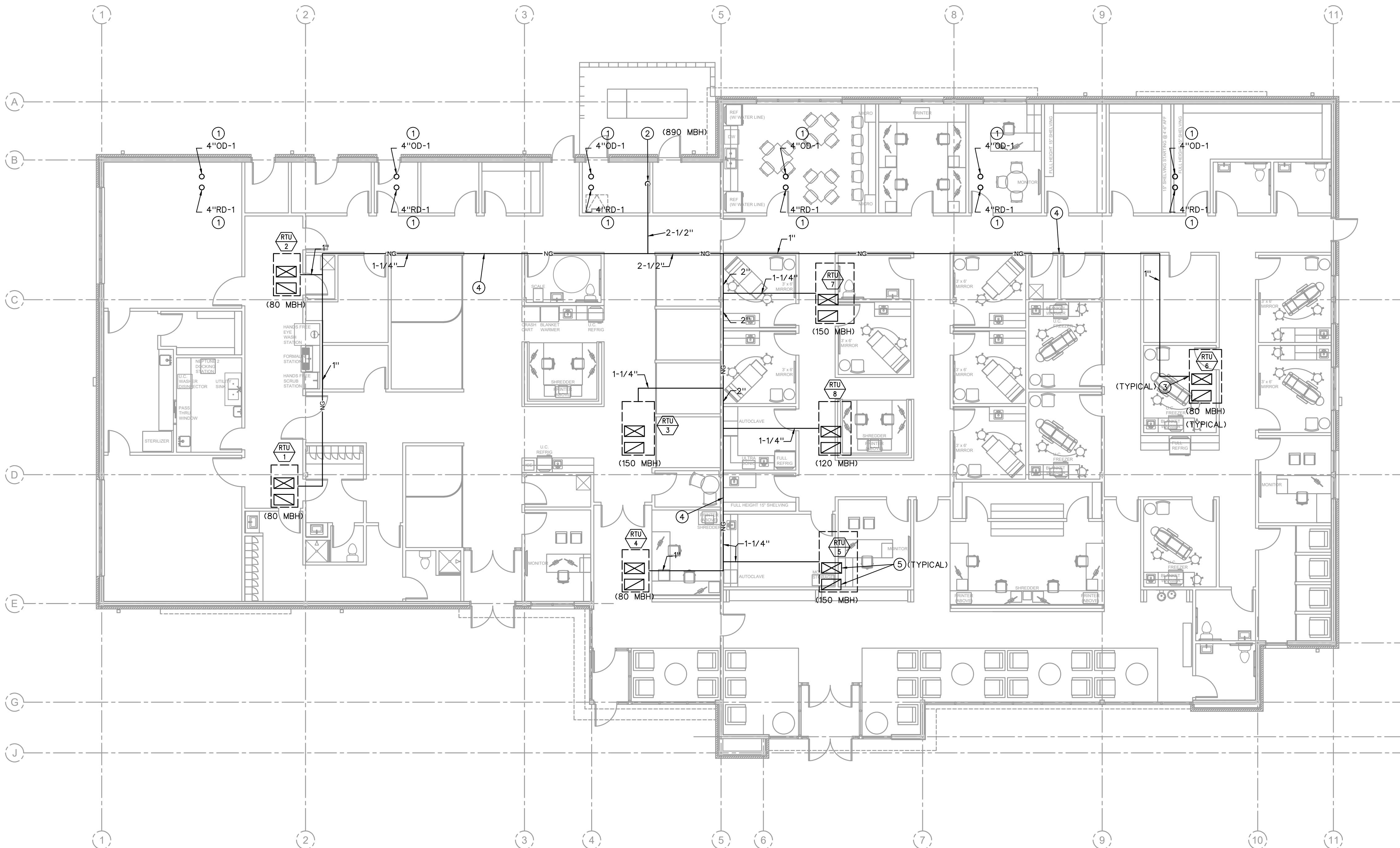
ASSOCIATED PLASTIC SURGEONS

I-470 BUSINESS & TECHNOLOGY CENTER
NE MCBAIN DRIVE
LEE'S SUMMIT, MISSOURI



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PE300S
FLOOR PLAN

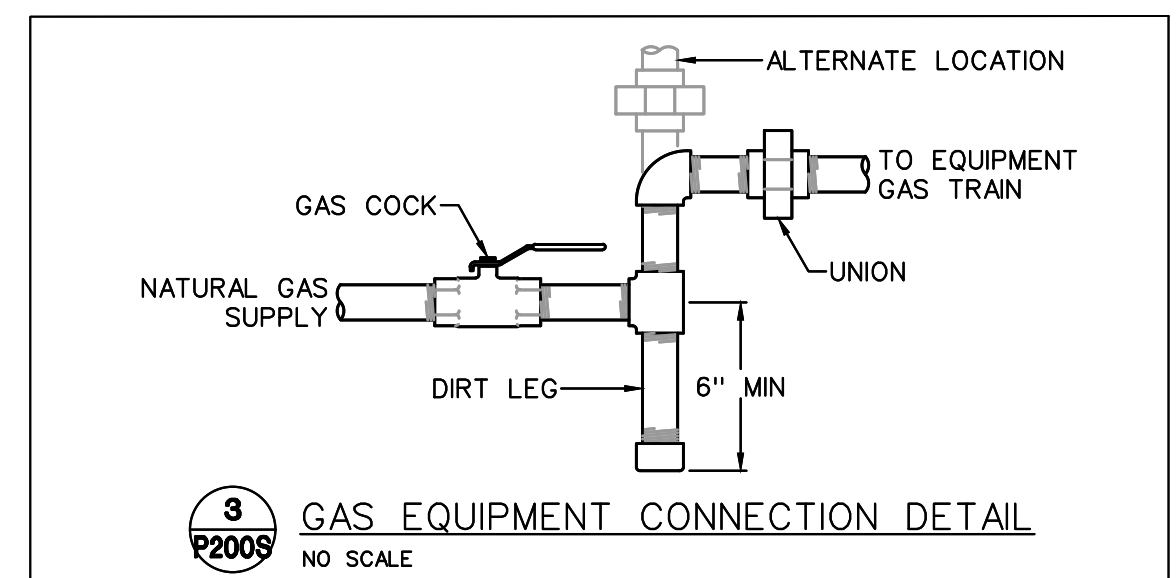
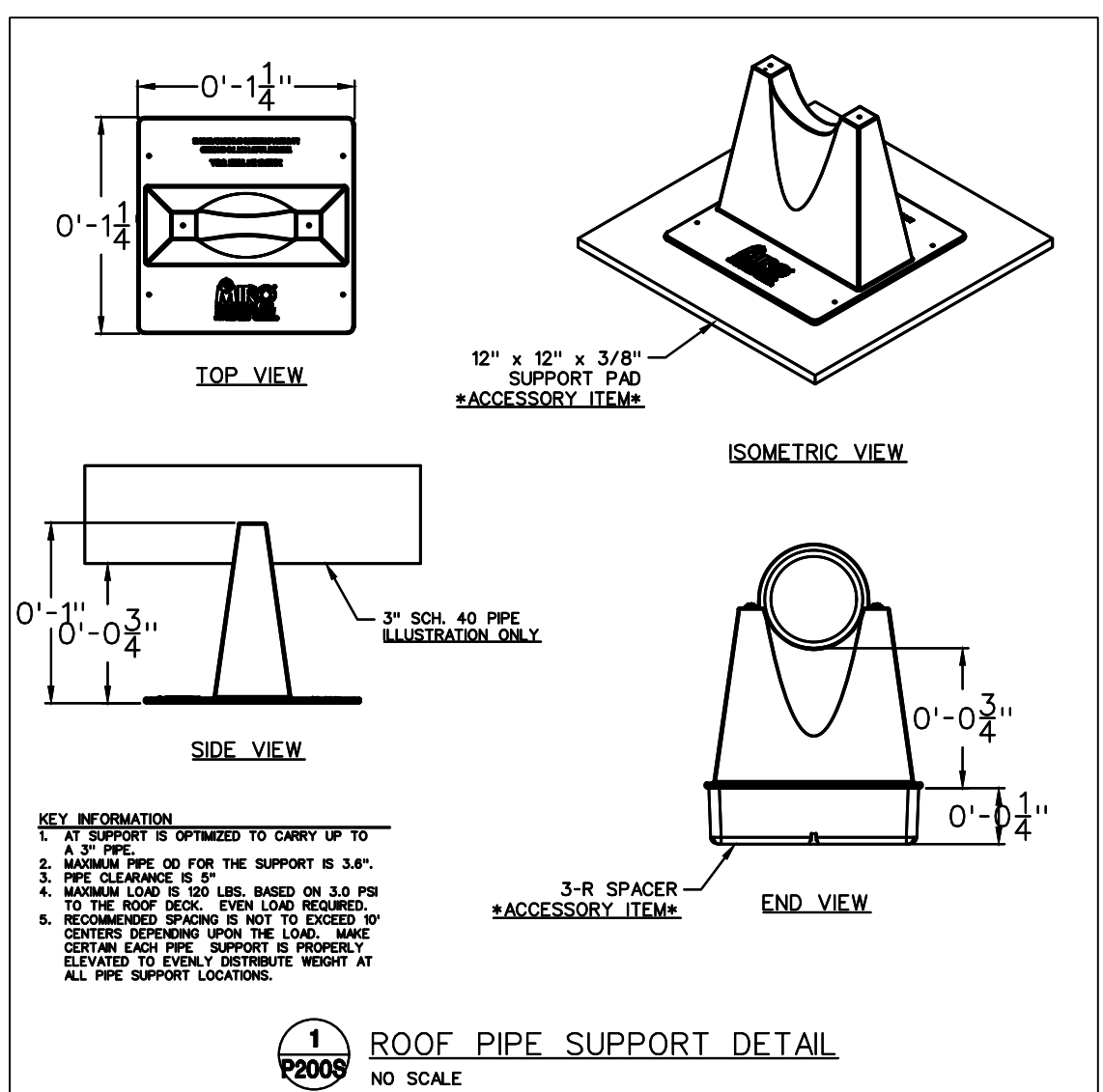


- ### HVAC/PLUMBING PLAN NOTES
- SEE "PLUMBING ABOVE FLOOR PLAN", SHEET P200S, FOR DRAIN PIPING TO RD OR OD.
 - 2-1/2" NG FROM BELOW.
 - SEE "GAS EQUIPMENT CONNECTION DETAIL", THIS SHEET, FOR PIPING CONNECTION AT RTU.
 - NG PIPING RUNNING ACROSS ROOF. SEE "ROOF PIPE SUPPORT DETAIL", THIS SHEET.
 - SA AND RA DOWN THROUGH ROOF. COORDINATE RTU LOCATION WITH STRUCTURAL ENGINEER.

HVAC/PLUMBING ROOF PLAN

1/8" = 1'-0"

NORTH



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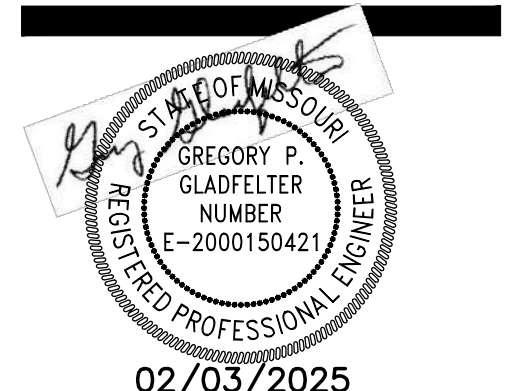
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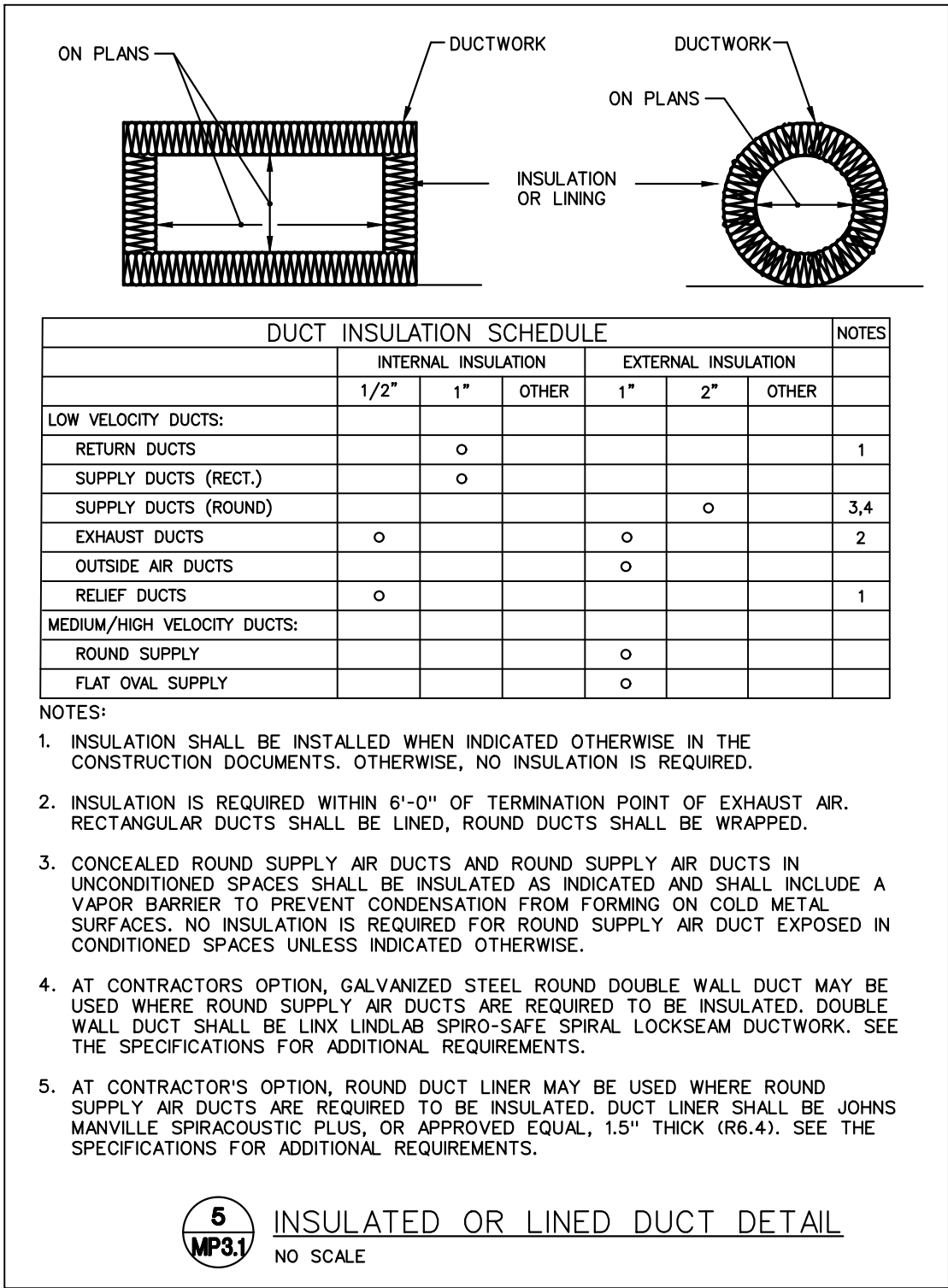
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SHEET NUMBER
MP200S
FLOOR PLAN



PLUMBING SPECIFICATION

1. INSTALLATION SHALL BE IN ACCORDANCE WITH THE 2018 INTERNATIONAL PLUMBING CODE, NFPA 90A AND 101 AND ALL STATE AND LOCAL CODES, ORDINANCES AND REGULATIONS.
2. ALL WATER BEARING PIPING SHALL BE SLOPED FOR DRAINAGE WITH BALL DRAIN VALVES AT LOW POINTS.
3. DRAINAGE PIPING SHALL BE SLOPED IN ACCORDANCE WITH CODE, BUT NOT LESS THAN 1/8" PER FOOT FOR 3" AND LARGER PIPING AND 1/4" PER FOOT FOR 2-1/2" AND SMALLER PIPING. ALL INVERT ELEVATIONS SHALL BE COORDINATED WITH THE STRUCTURAL FOOTINGS.
4. PROVIDE DIELECTRIC UNIONS AT ALL CONNECTIONS BETWEEN DISSIMILAR METALS.
5. CAULK AND SEAL ALL DUCT AND PIPING PENETRATIONS OF EXTERIOR OR DEMISING WALLS.
6. ABOVE GROUND WASTE AND VENT PIPING SHALL BE SCHEDULE 40 PVC WITH SOLVENT CEMENT JOINTS, EXCEPT USE STANDARD WEIGHT NO-HUB CAST IRON IN AIR PLENUMS. VENT PIPING MAY BE SCHEDULE 40 GALVANIZED STEEL WITH SCREWED JOINTS. PAINT ALL EXTERIOR PIPING WITH UV RESISTANT PAINT.
7. ABOVE GROUND WATER PIPING SHALL BE COPPER.
8. SERVICE VALVES FOR WATER PIPING SYSTEMS UP THRU 2" SHALL BE 1/4 TURN, 150 LB. BALL VALVE WITH BRONZE CHROME PLATED BALL AND TFE SEATS, NIBCO S-585-70.
9. COPPER DOMESTIC WATER PIPING SHALL BE INSULATED WITH 1" FIBERGLASS WITH ALL SERVICE JACKET OR COMPARABLE UNICELLULAR INSULATION WITH SMOKE/FLAME RATING OF 25/50. WHEN INSTALLED WITHIN A CHASE ALONG AN EXTERIOR WALL, THE INSULATION SHALL BE 1-1/2" FIBERGLASS AND THE PIPING SHALL BE LOCATED ON THE INTERIOR SIDE OF THE BUILDING WALL INSULATION.
10. NATURAL GAS PIPING (ABOVE GROUND) SHALL BE SCHEDULE 40 BLACK STEEL WITH THREADED JOINTS. CONNECT USING JOINT COMPOUND SUITABLE FOR NATURAL GAS PIPING. ALL EXPOSED BLACK STEEL NATURAL GAS PIPING SHALL BE PROTECTED WITH A RUST INHIBITING COATING IN ACCORDANCE WITH THE PLUMBING CODE.
11. SERVICE VALVES FOR WATER PIPING SYSTEMS UP THRU 2" SHALL BE 1/4 TURN, 150 LB. BALL VALVE WITH BRONZE CHROME PLATED BALL AND TFE SEATS, NIBCO S-585-70.
12. GAS SERVICE VALVES TO BE LUBRICATED PLUG COCKS, ROCKWELL 142 OR 143. CONNECTIONS TO EQUIPMENT SHALL HAVE SERVICE VALVES, 6" MINIMUM DIRT LEG AND UNION OR AT CONTRACTOR OPTION, UL LISTED APPLIANCE FLEXIBLE CONNECTORS MAY BE USED.
13. PROVIDE PLUMBING DRAINAGE FIXTURES AS SCHEDULED OR SELECTED BY OWNER WITH ALL REQUIRED TRIM AND ACCESSORIES FOR A COMPLETE WORKING AND CODE COMPLIANT INSTALLATION. REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATION OF THE DRAINAGE FIXTURES.
14. TEST AND CLEAN PIPING SYSTEMS PER INDUSTRY STANDARDS. PRESSURE TEST OF PRESSURE PIPING SHALL BE AT 1-1/2 TIMES THE ANTICIPATED OPERATING PRESSURE, BUT NOT LESS THAN 50 PSIG FOR 2 HOURS. NON-PRESSURIZED SYSTEMS SHALL BE TESTED WITH 10' WATER COLUMN ABOVE NORMAL OPERATING CONDITIONS OR 5 PSI FOR 2 HOURS. THERE SHALL BE NO MEASURABLE DROP DURING THE TEST PERIOD.

MECHANICAL SPECIFICATION

1. INSTALLATION SHALL BE IN ACCORDANCE WITH THE 2018 INTERNATIONAL MECHANICAL AND FUEL GAS CODES, NFPA 90A AND 101 AND ALL STATE AND LOCAL CODES, ORDINANCES AND REGULATIONS.
2. COORDINATE EXACT LOCATIONS AND ORIENTATION OF EQUIPMENT WITH ARCHITECTURAL AND STRUCTURAL REQUIREMENTS. EQUIPMENT SHALL BE SCREENED IN ACCORDANCE WITH LOCAL JURISDICTION REQUIREMENTS AND AS SHOWN ON ARCHITECTURAL DRAWINGS.
3. DUCTWORK FABRICATION AND INSTALLATION SHALL BE IN ACCORDANCE WITH SMACNA STANDARDS.
4. ALL DUCTWORK SHALL BE SHEET METAL, CONSTRUCTED TO SMACNA STANDARDS, MINIMUM OF 2" WG PRESSURE CLASS AND SEAL CLASS 'C' MINIMUM. ALL LONGITUDINAL AND TRANSVERSE JOINTS TO BE SEALED, EXCEPT AS OTHERWISE NOTED. ROUND AND FLEX DUCT CONNECTIONS SHALL BE MADE WITH SPIN COLLARS WITH EXTRACTORS AND VOLUME DAMPERS.
5. RECTANGULAR DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS. CONTRACTOR SHALL INCLUDE AN ALLOWANCE FOR 1" DUCT LINER IN LOW VELOCITY DUCTS WHERE APPLICABLE. CONCEALED ROUND DUCTS SHALL BE INSULATED WITH 2" DUCT WRAP. EXPOSED ROUND DUCTS DO NOT NEED TO BE INSULATED.
6. PROVIDE FLEXIBLE FABRIC CONNECTORS AT ALL DUCTWORK CONNECTIONS TO ROTATING EQUIPMENT. CONNECTORS EXPOSED TO SUNLIGHT SHALL BE MADE OF UV RESISTANT MATERIAL.
7. TRAP ALL CHILLED CONDENSATE DRAINS AS DETAILED OR AS REQUIRED. PROVIDE A TRAP DEPTH 1" GREATER THAT SYSTEM FAN DEVELOPED STATIC PRESSURE. INSURE AND CERTIFY THAT CONDENSATE DRAINS ARE POSITIVELY SLOPED AT 1"/20' MINIMUM IN DIRECTION OF FLOW.
8. ALL ROOF MOUNTING, FLASHINGS AND PENETRATION WORK ASSOCIATED WITH MECHANICAL AND PLUMBING WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE ROOFING MANUFACTURER'S WARRANTY REQUIREMENTS.
9. TEST AND CLEAN PIPING SYSTEMS PER INDUSTRY STANDARDS. PRESSURE TEST OF PRESSURE PIPING SHALL BE AT 1-1/2 TIMES THE ANTICIPATED OPERATING PRESSURE, BUT NOT LESS THAN 50 PSIG FOR 2 HOURS. NON-PRESSURIZED SYSTEMS SHALL BE TESTED WITH 10' WATER COLUMN ABOVE NORMAL OPERATING CONDITIONS OR 5 PSI FOR 2 HOURS. THERE SHALL BE NO MEASURABLE DROP DURING THE TEST PERIOD.
10. TEST AND BALANCE ALL SYSTEMS.

PLUMBING DRAINAGE FIXTURE SCHEDULE

- A. INSTALL PLUMBING FIXTURES AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. VERIFY ROUGH-IN REQUIREMENTS WITH MANUFACTURER'S DRAWINGS AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE WATER-CONSERVING FIXTURES AND APPURTENANCES IF/AS REQUIRED BY LOCAL AUTHORITIES. CONFIRM ALL LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECTURAL DRAWINGS AND/OR SPECIFICATIONS. CAULK FIXTURES TO WALLS/FLOORS. SET COUNTER MOUNTED SINKS AND LAVATORIES IN A BED OF CAULK. THE SPECIFIED PLUMBING FIXTURES, OR APPROVED EQUALS, SHALL BE USED UNLESS OTHERWISE NOTED OR INDICATED.
- B. ROOF DRAINS (RD-1) WADE #3000-32CAST IRON ROOF DRAIN WITH FLANGE, FLASHING RING WITH GRAVEL STOP AND POLY LOCKING DOME STRAINER. J.R. SMITH FIGURE 1010-YE OR 1010-E (OR APPROVED EQUAL) WITH UNDERDECK CLAMP (WHERE REQUIRED), SUMP RECEIVER, EXTENSION SLEEVE (FOR INSULATED ROOFS), SECONDARY FLASHING DEVICE (IF REQUIRED) AND 16" DIAMETER ROUND TOP.
- C. OVERFLOW ROOF DRAINS (OD-1) WADE #3000-32-D CAST IRON ROOF DRAIN WITH FLANGE FLASHING RING WITH GRAVEL STOP, 2" HIGH DAM AND POLY LOCKING DOME STRAINER. J.R. SMITH FIGURE 1080-YE OR 1080-E (OR APPROVED EQUAL), WITH UNDERDECK CLAMP (WHERE REQUIRED), SUMP RECEIVER, EXTENSION SLEEVE (FOR INSULATED ROOFS), SECONDARY FLASHING DEVICE (IF REQUIRED) AND 16" DIAMETER ROUND TOP.
- D. DOWNSPOUT NOZZLES (DS-1) WADE #3940-3 ROUGH BRONZE DOWNSPOUT NOZZLE WITH FLANGE TO SECURE NOZZLE TO SECURE TO WALL. THREADED CONNECTIONS.
- E. FINISHED FLOOR CLEANOUTS: (FFCO) WADE #6000-1-2-5 CAST IRON FLOOR CLEANOUT WITH FLANGE, PLASTIC TAPERED PLUG AND SQUARE NICKEL BRONZE ADJUSTABLE TOP. PROVIDE WITH CARPET CLEANOUT MARKER WHEN CLEANOUT IS LOCATED BELOW CARPET. COORDINATE WITH ARCHITECTURAL PLANS.
- F. FINISHED WALL CLEANOUTS: (FWCO) WADE #B560, W/ 8304-85-6 CAST IRON CLEANOUT TEE WITH BRASS PLUG AND 6" ROUND STAINLESS STEEL ACCESS COVER. J.R. SMITH FIGURE 4530. PROVIDE DUCO CAST IRON WALL CLEANOUT TEE WITH COUNTERSUNK PLUG. DELETE COVER PLATE IF CLEANOUT IS IN EXPOSED LOCATION.

HVAC SYSTEM SAFETY CONTROLS

1. DUCT SMOKE DETECTORS SHALL BE FURNISHED BY THE HVAC CONTRACTOR. SEE ELECTRICAL FOR INTEGRATION OF ALL SMOKE DETECTION AND SHUTDOWN OF EQUIPMENT. ALL HVAC EQUIPMENT IN EXCESS OF 2000 CFM SHALL BE EQUIPPED WITH SMOKE DETECTORS IN THE RETURN AIR STREAM OF THE UNIT. WHERE MULTIPLE HVAC UNIT FANS SHARE A COMMON RETURN AIR PLENUM (IN EXCESS OF 2,000 CFM COMBINED), ALL HVAC UNITS (INCLUDING VAV BOX FANS OR OTHER FANS ASSOCIATED WITH THE PLENUM) SHALL BE PROVIDED WITH A SMOKE DETECTOR. WHERE DUCT MOUNTED DETECTORS ARE SHOWN OR REQUIRED, USE DUCT INSERTION TUBE TYPE DETECTORS. IF FIRE ALARM SYSTEM IS INSTALLED, COORDINATE TYPE OF SMOKE DETECTOR WITH THE FIRE ALARM CONTRACTOR. IF A FIRE ALARM SYSTEM IS NOT PROVIDED, COORDINATE INSTALLATION OF A STROBE/HORN WITH THE ELECTRICAL CONTRACTOR TO NOTIFY OCCUPANTS OF THE SENSING OF SMOKE AT A SMOKE DETECTOR.

RTU ROOFTOP UNIT SCHEDULE (GAS-FIRED)																																	
MARK NO.	LOCATION	MANUFACTURER	MODEL NO.	ARRANGEMENT	DISCHARGE	DRY BULB ECONOMIZER	SUPPLY						COOLING										HEATING			ELECTRICAL					WEIGHT	REMARKS	
							CFM	MIN. O.A.	EXT. S.P. IN. W.G.	FAN TYPE	FAN SIZE	RPM	EVAP. HP	AMBIENT °F	EDB °F	EWB °F	LDB °F	LWB °F	TOTAL MBH	SENS. MBH	MAX FPM	STAGES	UNIT EER	INPUT MBH	OUTPUT MBH	STAGES	VOLT	ø	HZ	MCA			MOCP
RTU-1	ROOF	TRANE	YHK036A4SOL	HORIZ.	DOWN	Y	1325	-	1.0	-	-	879	1.0	105	72.3	64.5	57.8	55.8	33.4	19.8	-	-	13.0	80	64.8	2	480	3	60	11.0	15.0	807	1-7,9
RTU-2	ROOF	TRANE	YHK036A4SOL	HORIZ.	DOWN	Y	1340	-	1.0	-	-	884	1.0	105	72.4	64.7	58.1	56.1	33.6	18.7	-	-	13.0	80	64.8	2	460	3	60	11.0	15.0	807	1-7,9
RTU-3	ROOF	TRANE	YSK150A4SOL	HORIZ.	DOWN	Y	4000	-	0.5	-	-	1341	5.0	105	84.2	69.7	60.3	58.4	137.2	95.3	-	-	10.8	150	121.5	2	460	3	60	33	45	1326	1-9
RTU-4	ROOF	TRANE	YHK036A4SOL	HORIZ.	DOWN	Y	1390	-	0.5	-	-	901	0.75	105	77.7	65.7	59.3	57.28	34.9	26.47	-	-	13.0	80	64.8	2	460	3	60	11.0	15.0	807	1-7
RTU-5	ROOF	TRANE	YSK150A4SOL	HORIZ.	DOWN	Y	5235	-	0.50	-	-	1686	5.0	105	77.0	64.8	59.8	56.71	135.11	100.7	-	-	10.8	150	121.5	2	460	3	60	33	45	1451	1-8
RTU-6	ROOF	TRANE	YHK048A4SOL	HORIZ.	DOWN	Y	1650	-	0.50	-	-	725	3.0	105	76.8	66.3	57.8	56.5	45.50	30.60	-	-	13.0	80	64.8	2	460	3	60	16	20	1052	1-8
RTU-7	ROOF	TRANE	YSK150A4SOL	HORIZ.	DOWN	Y	4330	-	0.50	-	-	1432	5.0	105	78.5	66.3	59.26	56.46	138.01	93.6	-	-	10.8	150	121.5	2	460	3	60	33	45	1451	1-8
RTU-8	ROOF	TRANE	YSK102A4SOL	HORIZ.	DOWN	Y	3315	-	0.50	-	-	1233	3.0	105	80	67	58.5	57.3	102.9	75.7	-	-	11.0	120	97.2	2	480	3	60	26	35	1091	1-8

- NOTES:
1. PROVIDE 2' MERV 8 THROWAWAY AIR FILTERS.
2. PROVIDE 14" HIGH INSULATED ROOF CURB.
3. PROVIDE WITH ENTHALPY ECONOMIZER.
4. PROVIDE WITH 7 DAY PROGRAMMABLE THERMOSTAT WITH STAGED HEATING AND COOLING CAPABILITY AS REQUIRED FOR OPERATION OF AUXILIARY HEATING, COOLING AND ECONOMIZER CONTROLS.
5. PROVIDE FLEXIBLE DUCT CONNECTORS AT ALL DUCT TO UNIT CONNECTIONS.
6. PROVIDE FUSED DISCONNECT SWITCH.
7. MINIMUM OA SETTING SHALL BE DETERMINED DURING TENANT IMPROVEMENT PHASE.
8. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL SMOKE DETECTORS IN SUPPLY AIR AND RETURN AIR DUCTS..
9. PROVIDE LOW AMBIENT CONTROL TO 0 DEGREES F.
10. DISABLE ECONOMIZER IF ONE EXISTS. OA VOLUME CALCULATED PER "MO DEPARTMENT OF HEALTH AND SENIOR SERVICES" REQUIREMENTS.
11. INFORMATION FROM ORIGINAL CONSTRUCTION DOCUMENTS FOR THIS SPACE USED TO POPULATE THIS SCHEDULE. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND NOTIFY ARCHITECT OF ANY DISCREPENCY.



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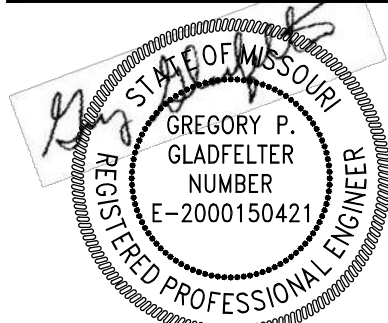
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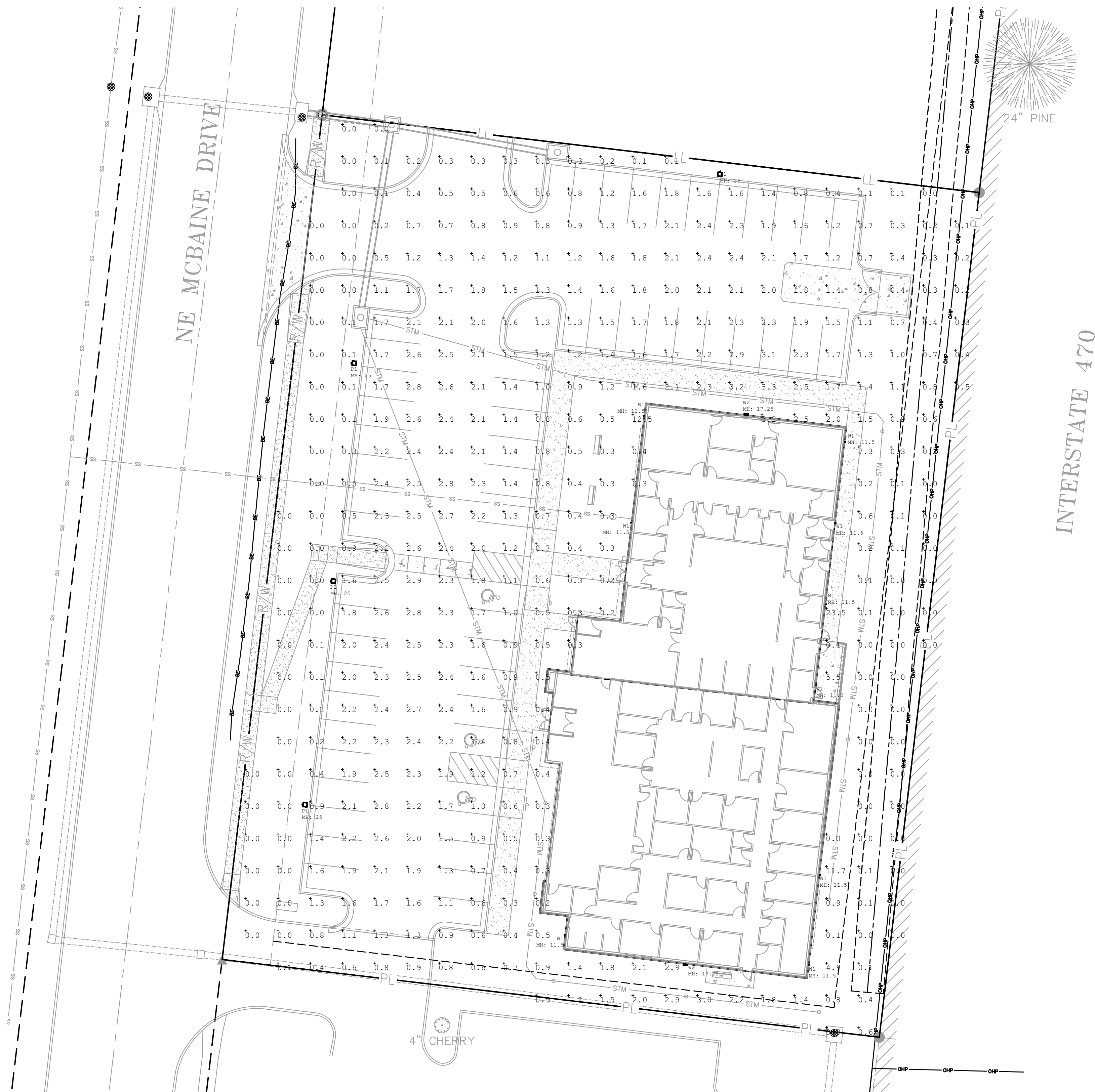


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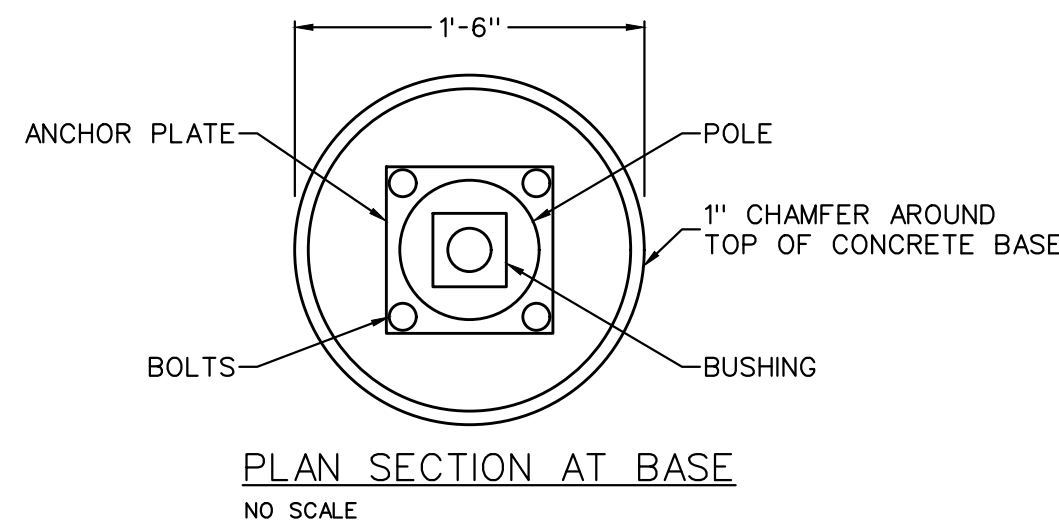
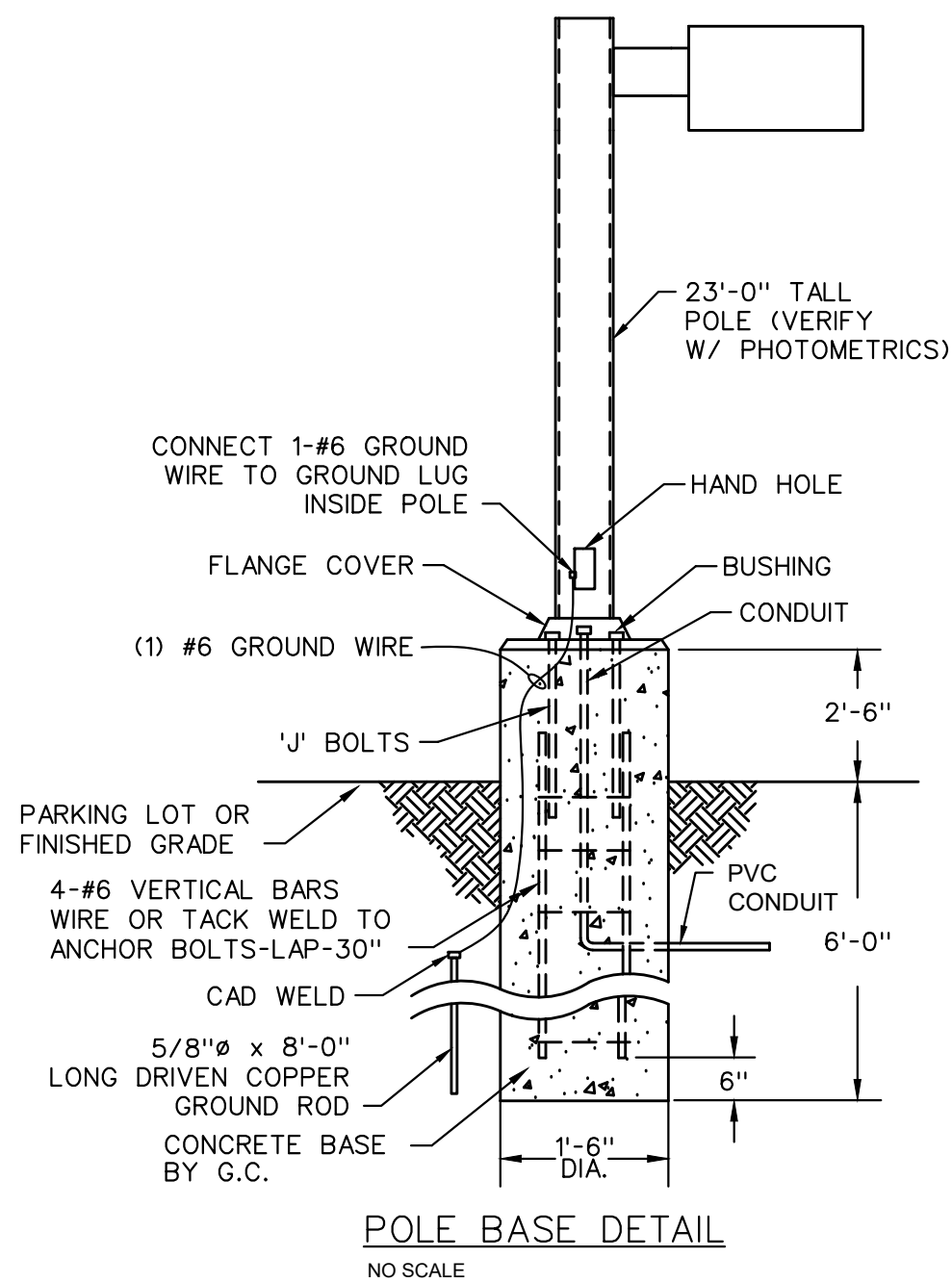
MP300S
FLOOR PLAN



PHOTOMETRIC SITE PLAN
1" = 20'-0"
NORTH

Luminaire Schedule									
Symbol	Qty	Label	Arrangement	Description	Tag	L/F	Luminaire Lumens	Luminaire Watts	Total Watts
	9	SQP402-L1L10-FLD 1	Single	SQP402-L1L10-FLD	W1	1.000	1342	12	108
	2	DSXW1 LED 20C 1000 40K T2M MV	Single	DSXW1 LED 20C 1000 40K T2M MV	W2	1.000	7372	73.2	146.4
	4	DSX1 LED P3 40K 80CRI BLC3	Single	DSX1 LED P3 40K 80CRI BLC3	P1	1.000	9184	102.17	408.68

Calculation Summary									
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min		
CalcPts 1	Illuminance	Fc	1.21	23.5	0.0	N.A.	N.A.		



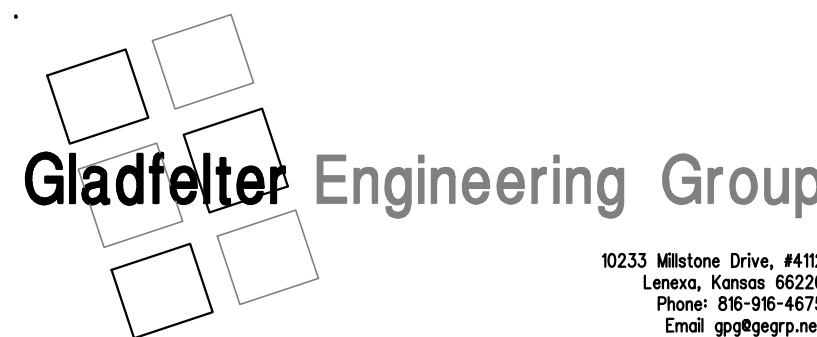
P1



W1



W2



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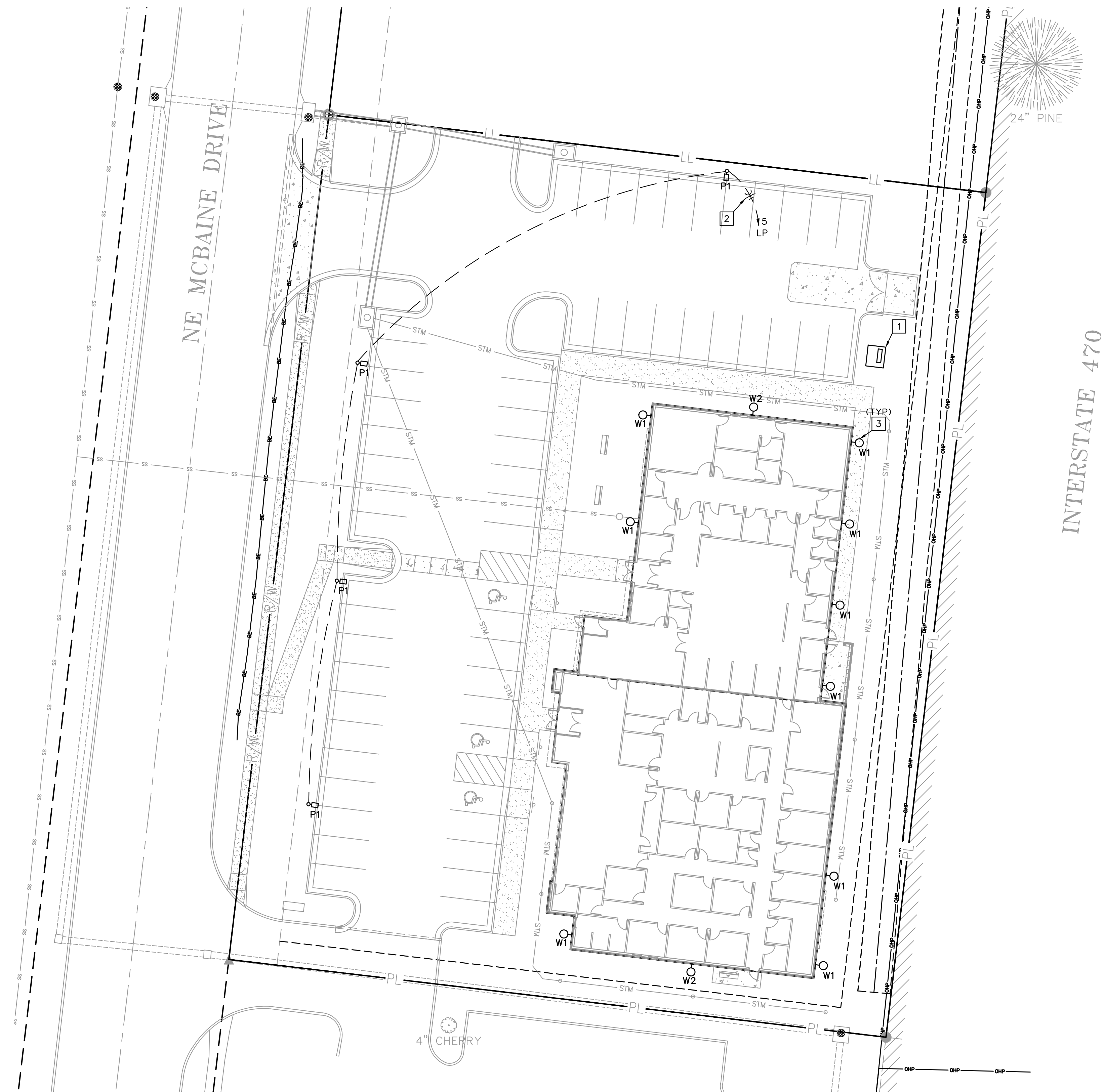
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SHEET NUMBER

E1.0
SITE PLAN



ELECTRICAL SITE PLAN
1" = 20'-0"



ELECTRICAL SITE PLAN NOTES

1. LOCATION OF 750KVA UTILITY COMPANY TRANSFORMER, SEE 'ELECTRICAL RISER DIAGRAM', SHEET E3.0S, FOR INFORMATION.
2. INSTALL #10 (CU) WIRE THROUGHOUT ENTIRE LENGTH OF CIRCUIT RUN.
3. SEE 'LIGHTING FLOOR PLAN', SHEET E2.1S, FOR CONNECTION OF BUILDING LIGHTING.



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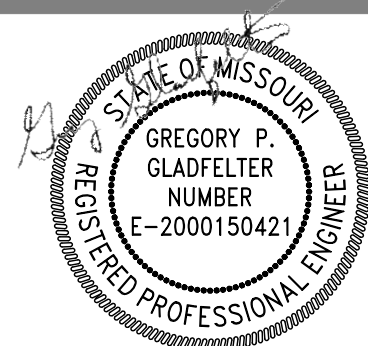
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LEE'S SUMMIT, MISSOURI



12/06/2024

PROJECT NO. 231206

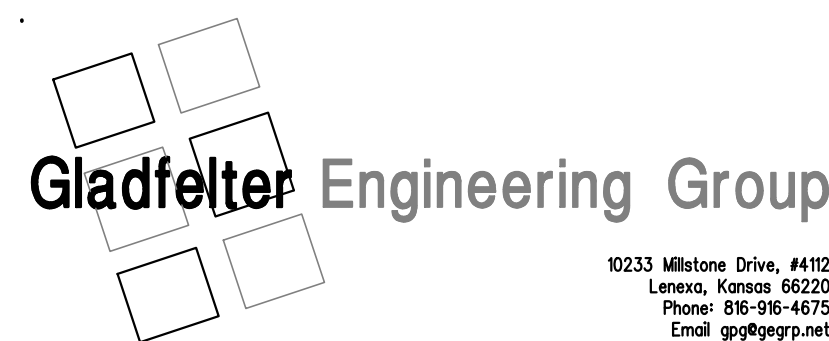
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09/27/2024

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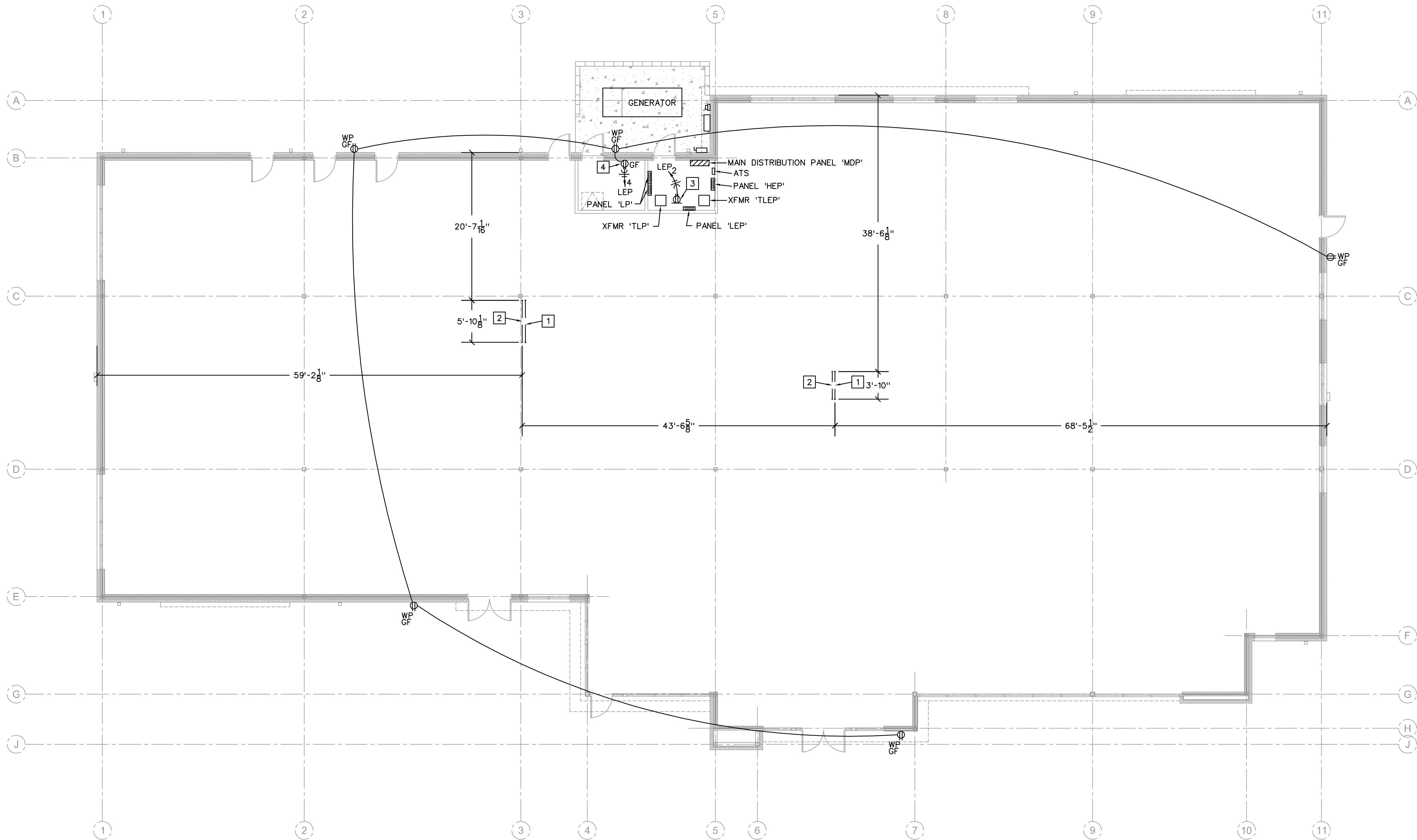
SHEET NUMBER

E1.1
SITE PLAN



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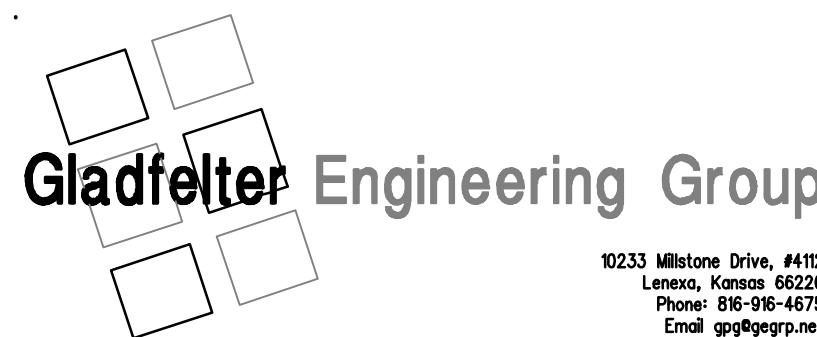
POWER FLOOR PLAN
1/8" = 1'-0"
(SHELL)
NORTH

POWER FLOOR PLAN NOTES#

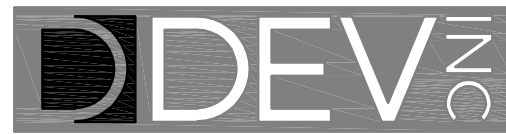
- 1" CONDUIT INSTALLED BELOW GRADE FOR DATA CABLES AT NURSES STATION. STUB CONDUIT UP 6" AT BOTH ENDS, INSTALL PULL-STRING AND CAP AT BOTH ENDS FOR FUTURE USE. VERIFY EXACT LOCATION WITH ARCHITECTURAL TENANT DRAWINGS.
- 1" CONDUIT INSTALLED BELOW GRADE FOR WIRING OF RECEPTACLES AT NURSES STATION. STUB CONDUIT UP 6" AT BOTH ENDS, INSTALL PULL-STRING AND CAP AT BOTH ENDS FOR FUTURE USE. VERIFY EXACT LOCATION WITH ARCHITECTURAL TENANT DRAWINGS.
- INSTALL OUTLET BOX FOR RECEPTACLE WITH TOP FLUSH TO BOTTOM OF PANEL.
- INSTALL OUTLET BOX FOR WIRING DEVICE AT 42" AFF.

ELECTRICAL GENERAL NOTES

- SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF LIGHT FIXTURES.
- COORDINATE NEMA RATING OF APPLIANCE PLUGS WITH THE EQUIPMENT SPECIFICATIONS.
- ALL RECEPTACLES WITHIN 6' OF WATER BEARING FIXTURES, EXTERIOR OUTLETS AND ALL OUTLETS IN KITCHEN AREAS SHALL BE GFI STYLE OR THE CIRCUIT SERVING THOSE DEVICES SHALL BE PROTECTED BY MEANS OF A GFI CIRCUIT BREAKER.
- OUTLET AND SWITCH BOXES INSTALLED IN RATED WALLS SHALL BE PROVIDED WITH UL LISTED PUTTY PADS TO PROTECT THE RATING OF THE WALL.
- CONNECT ALL NIGHT LIGHT, EXIT LIGHT AND EMERGENCY LIGHT FIXTURES TO UNSWITCHED HOT-LEG OF NEAREST 120V LIGHTING CIRCUIT IN SAME AREA.
- CONDUIT INSTALLED IN AREAS OF BUILDINGS OR PORTIONS OF BUILDINGS WHERE MEDICAL CARE IS PROVIDED SHALL BE MEDICAL GRADE CONDUIT AND THE INSTALLATION SHALL CONFORM WITH CHAPTER 517 OF THE NEC (HEALTH CARE FACILITIES).
- THE ELECTRICAL CONTRACTOR SHALL CONSULT WITH OTHER SUB-CONTRACTORS PROVIDING ENERGIZED EQUIPMENT TO ASSURE THAT ASSOCIATED ELECTRICAL EQUIPMENT MATCHES THE CHARACTERISTICS OF THE EQUIPMENT BEING PROVIDED.



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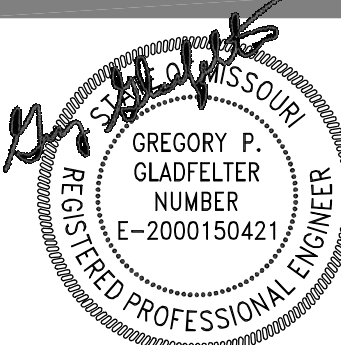
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A NEW BUILDING FOR:

ASSOCIATED PLASTIC SURGEONS

I-470 BUSINESS & TECHNOLOGY CENTER
NE McBAIN DRIVE
LEE'S SUMMIT, MISSOURI



12/06/2024

PROJECT NO. 231206

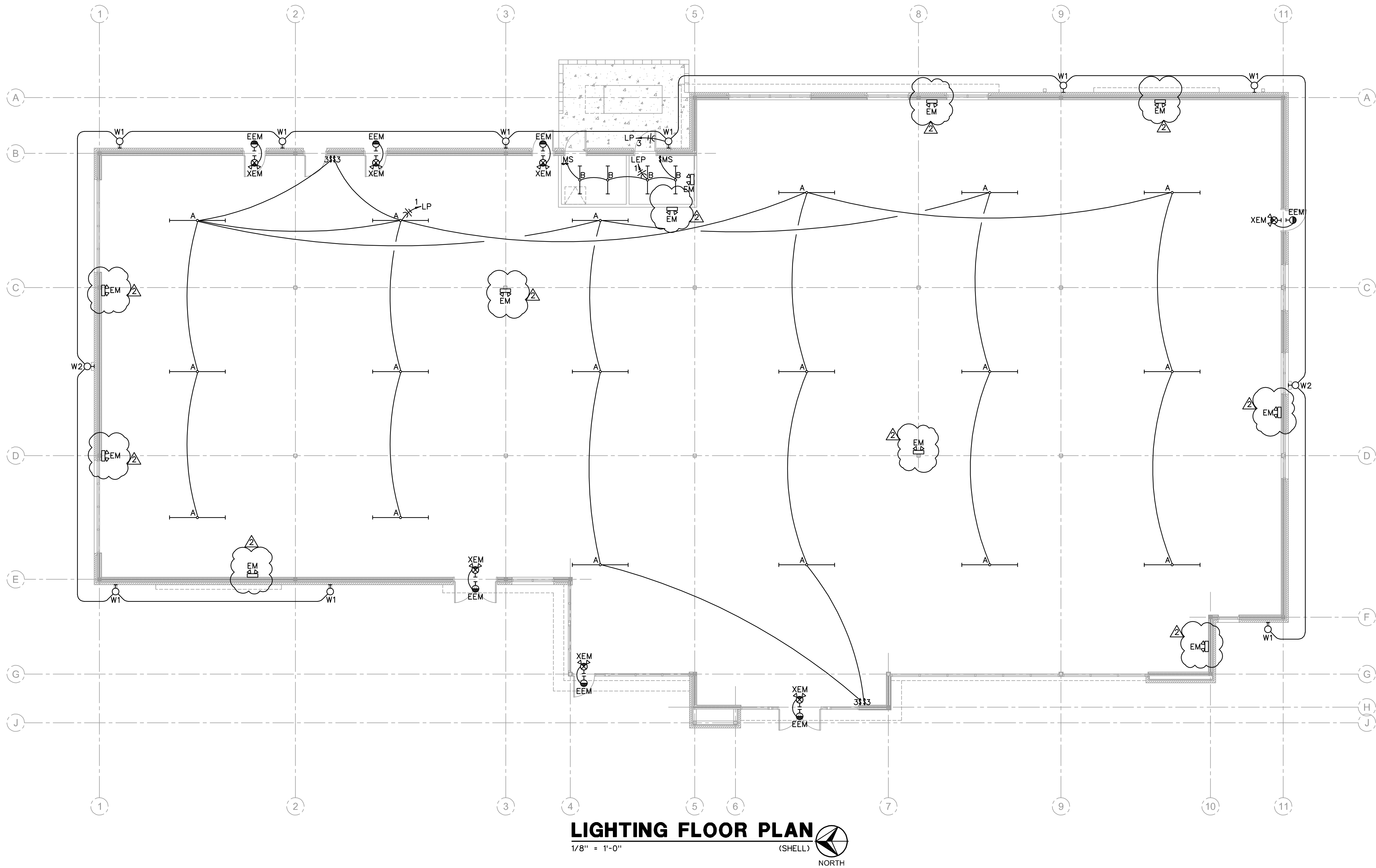
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SHELL PERMIT

SHEET NUMBER

E2.0S
FLOOR PLAN



LIGHTING FLOOR PLAN NOTES

1. NOTE...

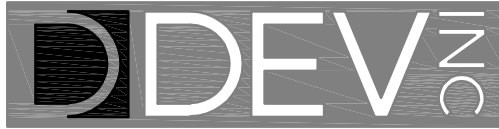
LIGHTING FLOOR PLAN
1/8" = 1'-0"
(SHELL)
NORTH

ELECTRICAL GENERAL NOTES

- SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF LIGHT FIXTURES.
- COORDINATE NEMA RATING OF APPLIANCE PLUGS WITH THE EQUIPMENT SPECIFICATIONS.
- ALL RECEPTACLES WITHIN 6' OF WATER BEARING FIXTURES, EXTERIOR OUTLETS AND ALL OUTLETS IN KITCHEN AREAS SHALL BE GFI STYLE OR THE CIRCUIT SERVING THOSE DEVICES SHALL BE PROTECTED BY MEANS OF A GFI CIRCUIT BREAKER.
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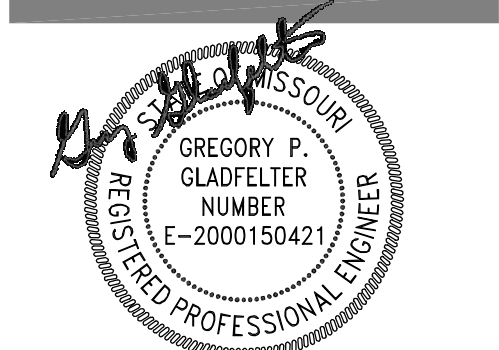
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A NEW BUILDING FOR:
ASSOCIATED PLASTIC SURGEONS

1-470 BUSINESS & TECHNOLOGY CENTER
NE MCBAIN DRIVE
LEE'S SUMMIT, MISSOURI



03/06/2025

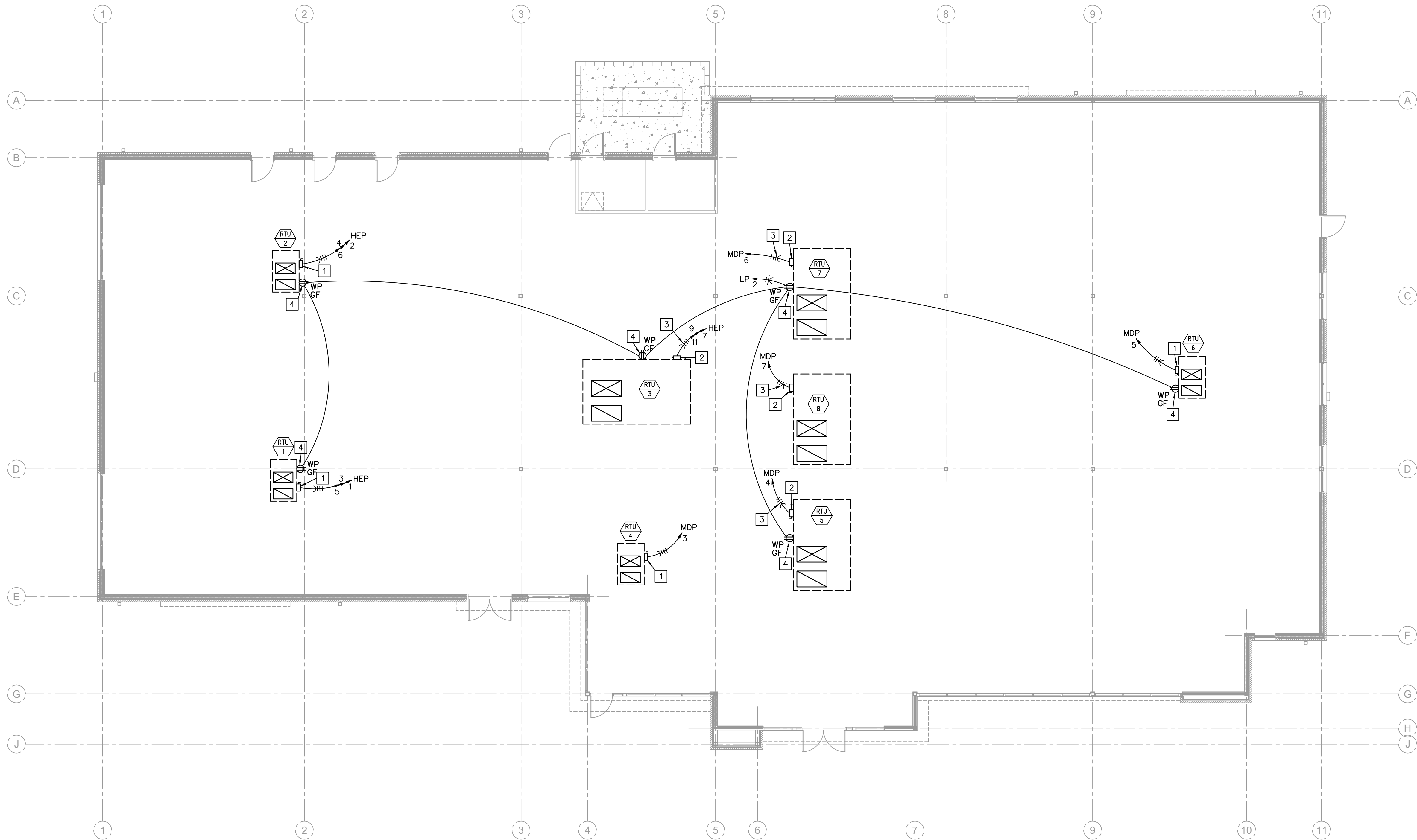
PROJECT NO. 231206

DRAWING ISSUANCE

DATE	DESCRIPTION	BY
09/27/2024	SHELL PERMIT	
03/06/2025	CITY COMMENTS	
04/11/2025	CITY COMMENTS	

SHEET NUMBER

E2.1S
FLOOR PLAN



SYSTEMS POWER FLOOR PLAN
1/8" = 1'-0"
(SHELL) NORTH

SYSTEMS POWER FLOOR PLAN NOTES

- 30A/3P, NON-FUSED, NEMA 3R DISCONNECT SWITCH INSTALLED ON SIDE OF UNIT. DO NOT INSTALL ON ACCESS PANEL.
- 60A/3P, NON-FUSED, NEMA 3R DISCONNECT SWITCH INSTALLED ON SIDE OF UNIT. DO NOT INSTALL ON ACCESS PANEL.
- 3/4" CONDUIT WITH 3-#8 (CU) AND 1-#10 (CU) EQUIPMENT GROUNDING CONDUCTOR.
- WP/GF RECEPTACLE INSTALLED ON SIDE OF UNIT. DO NOT INSTALL ON ACCESS PANEL.

ELECTRICAL GENERAL NOTES

- COORDINATE NEMA RATING OF APPLIANCE PLUGS WITH THE EQUIPMENT SPECIFICATIONS.
- CONDUIT INSTALLED IN AREAS OF BUILDINGS OR PORTIONS OF BUILDINGS WHERE MEDICAL CARE IS PROVIDED SHALL BE MEDICAL GRADE CONDUIT AND THE INSTALLATION SHALL CONFORM WITH CHAPTER 517 OF THE NEC (HEALTH CARE FACILITIES).
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A NEW BUILDING FOR:
ASSOCIATED PLASTIC SURGEONS
1-470 BUSINESS & TECHNOLOGY CENTER
NE McBAIN DRIVE
LEE'S SUMMIT, MISSOURI

STATE OF MISSOURI
GREGORY P. GLADFELTER
NUMBER E-2000150421
REGISTERED PROFESSIONAL ENGINEER
12/06/2024

PROJECT NO. 231206
DRAWING ISSUANCE
09/27/2024 SHELL PERMIT

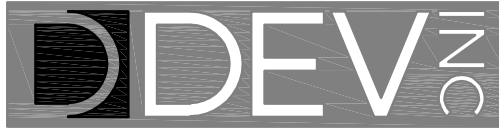
SHEET NUMBER
E2.2S
FLOOR PLAN

ELECTRICAL SYMBOLS

	BRANCH CIRCUIT CONCEALED IN CEILING OR WALL. ARROWS INDICATE HOMERUNS TO PANEL. ALL CONDUCTORS ARE #12 EXCEPT AS NOTED.
	CONDUIT RUN UNDERGROUND OR BENEATH FLOOR SLAB.
	GROUNDING CONDUCTOR #12 EXCEPT AS NOTED.
	WALL MOUNTED JUNCTION BOX.
	CEILING MOUNTED JUNCTION BOX.
	PANELBOARD (SURFACE MOUNTED). INSTALL W/TOP 6'-0" AFF.
	DISTRIBUTION PANEL (SURFACE MOUNTED).
	DISCONNECT SWITCH. SIZED AS NOTED.
	DISCONNECT SWITCH FURNISHED WITH EQUIPMENT.
	COMBINATION EXIT/EMERGENCY LIGHT FIXTURE WITH (2) HEADS
	CEILING OR WALL MOUNTED EMERGENCY LIGHTING UNIT WITH (2) HEADS.
	LED STRIP FIXTURE.
	WALL MOUNTED LIGHT FIXTURE.
	REMOTE WEATHERPROOF EMERGENCY LIGHT FIXTURE.
	SINGLE POLE SWITCH. +3'-10" AFF.
	THREE-WAY SWITCH +3'-10" AFF.
	OCCUPANCY SENSOR. +3'-10" AFF.
	DUPLEX RECEPTACLE. +1'-6" AFF OR AS NOTED.
	DUPLEX RECEPTACLE INSTALLED ABOVE COUNTERTOP.
	DUPLEX RECEPTACLE WITH WEATHERPROOF PLATE. HEIGHT AS NOTED.
	DUPLEX RECEPTACLE W/GROUND FAULT PROTECTION. +1'-6" AFF OR AS NOTED.
	FOURLEX RECEPTACLE. +1'-6" AFF OR AS NOTED.

ELECTRICAL GENERAL NOTES

- A) CONTRACTOR SHALL COORDINATE INSTALLATION REQUIREMENTS AND SCHEDULING OF ALL WORK WITH ARCHITECT AND GENERAL CONTRACTOR.
- B) INSTALLATION SHALL COMPLY WITH LATEST EDITION OF N.E.C. AND LOCAL AUTHORITY HAVING JURISDICTION.
- C) CONTRACTOR SHALL BE LICENSED TO PERFORM WORK IN MUNICIPALITY WHERE PROJECT IS LOCATED.
- D) ALL WIRING SHALL BE INSTALLED IN CONDUIT. EMT CONDUIT WITH SET SCREW FITTINGS MAY BE UTILIZED WHERE PERMITTED BY CODE. MINIMUM CONDUIT SIZE SHALL BE 1/2".
- E) ALL WIRING SHALL BE COPPER WITH 600 VOLT INSULATION AND COLOR CODED, UNLESS NOTED OTHERWISE.
- F) ALUMINUM WIRING SHALL ONLY BE USED FOR FEEDERS FROM TRANSFORMER TO MAIN DISTRIBUTION PANEL. ALUMINUM CONDUCTORS SHALL BE ALCAN STABLOY AA-8000 SERIES, 600 VOLT INSULATION.
- G) CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMIT AND INSPECTION FEES.
- H) MC CABLE MAY BE INSTALLED WHERE PERMITTED BY CODE. CONDUCTORS SHALL BE MINIMUM #12 GAUGE AND COPPER.
- I) INSTALL BLANK COVER PLATE ON ALL PULL BOXES AND JUNCTION BOXES.
- J) TYPEWRITTEN PANELBOARD DIRECTORY SHALL BE PROVIDED FOR PANELBOARD AND CORRECTLY FILLED OUT.
- K) CONTRACTOR SHALL COORDINATE INSTALLATION OF ELECTRICAL WORK WITH ALL OTHER TRADES INVOLVED WITH CONSTRUCTION OF PROJECT.
- L) ALL WIRING DEVICES SHALL BE RATED 20 AMP, OR AS NOTED ON DRAWINGS. COORDINATE LOCATION WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- M) CONTRACTOR SHALL FIELD VERIFY EXACT ROUTING OF ALL CONDUITS TO NEW EQUIPMENT.
- N) FURNISH MATERIALS AND LABOR FOR A COMPLETE AND OPERATIONAL ELECTRICAL INSTALLATION.
- O) MATERIAL AND EQUIPMENT SHALL BE NEW AND SHALL BEAR THE 'UL' LABELS AS REQUIRED.
- P) CONTRACTOR SHALL COORDINATE INSTALLATION OF EQUIPMENT FURNISHED BY OTHERS.
- Q) PANELBOARD, TRANSFORMERS, MAIN DISTRIBUTION PANEL AND DISCONNECT SWITCHES SHALL BE MANUFACTURED BY ITE/SIEMENS OR EQUAL.
- R) ALL CONCRETE PADS AND POLE BASES ARE PROVIDED AND INSTALLED BY OTHERS.
- S) PVC (SCHEDULE 40) CONDUIT MAY BE USED FOR CONDUITS INSTALLED BELOW FINISHED GRADE OR CONCRETE FLOOR SLAB. PROVIDE WITH APPROVED FITTINGS.
- T) DISCONNECT SWITCHES SHALL BE MANUFACTURED BY ITE/SIEMENS OR EQUAL. NEMA 1 FOR INDOOR INSTALLATION AND NEMA 3R FOR OUTDOOR INSTALLATION.
- U) ALL LIGHT FIXTURES AND DEVICES MOUNTED IN CEILING SHALL BE BRACED TO RESIST SEISMIC FORCES IN ACCORDANCE WITH IBC, NEC, AND LOCAL AUTHORITY HAVING JURISDICTION.
- V) THERMOSTAT OUTLET BOXES SHALL BE PROVIDED AND INSTALLED WITH 3/4" CONDUIT STUBBED UP OUT TOP OF BOX TO ABOVE ACCESSIBLE CEILING. PROVIDE BUSHING ON END OF CONDUIT.
- W) EMERGENCY AND EXIT LIGHT FIXTURES SHALL BE PROVIDED WITH BATTERY BACK-UP FOR MINIMUM OF (90) MINUTES. EMERGENCY AND EXIT LIGHT FIXTURES SHALL BE CONNECTED TO HOT LEG OF CIRCUIT, NOT SWITCHED.



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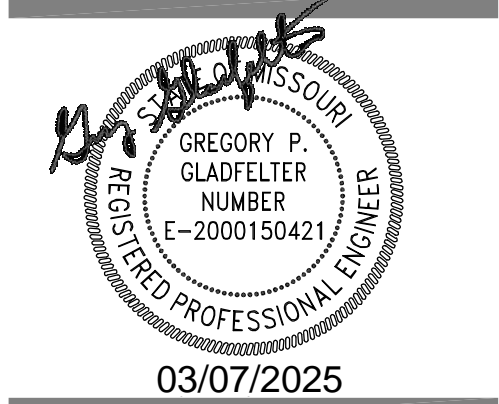
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ASSOCIATED PLASTIC SURGEONS

A NEW BUILDING FOR:

I-470 BUSINESS & TECHNOLOGY CENTER
NE McBAIN DRIVE
LEE'S SUMMIT, MISSOURI



03/07/2025

PROJECT NO. 231206

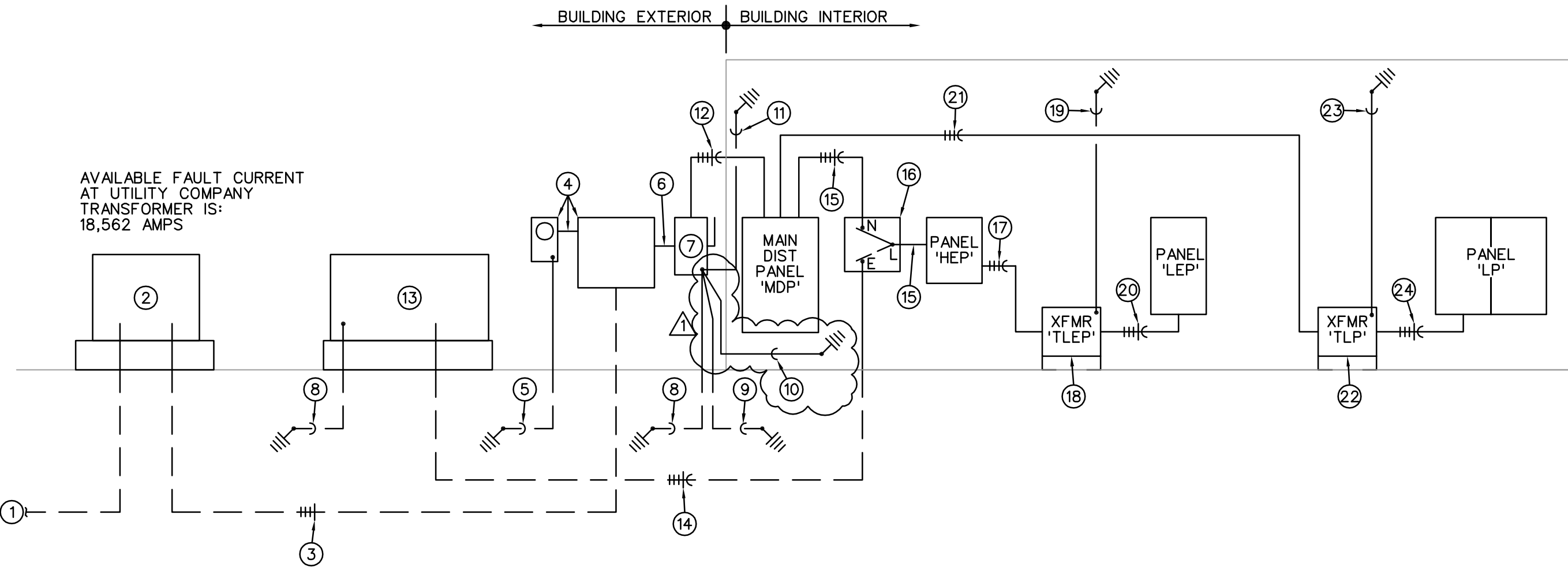
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08/27/2024
03/07/2025

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CITY COMMENTS

SHEET NUMBER

E3.0S
RISER/NOTES

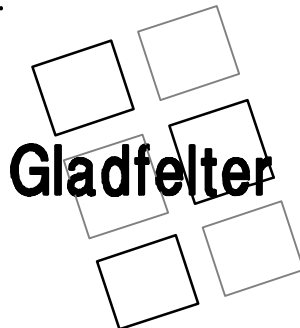


ELECTRICAL RISER DIAGRAM

NO SCALE

ELECTRICAL RISER DIAGRAM NOTES

1. TWO (2) 4" PVC CONDUITS FOR PRIMARY SERVICE CABLES. TERMINATE AT PROPERTY LINE. INSTALL CONDUITS WITH TOP MINIMUM OF 3'-6" BELOW FINISHED GRADE.
2. UTILITY COMPANY PAD MOUNT TRANSFORMER WITH 480Y/277V PRIMARY. INSTALL CONCRETE PAD PER UTILITY COMPANY STANDARDS.
3. THREE (3) SETS OF 3" PVC CONDUIT WITH 4-#400KCMIL (AL) IN EACH. INSTALL CONDUITS WITH TOP MINIMUM OF 3'-6" BELOW FINISHED GRADE.
4. UTILITY COMPANY CT CABINET, METER CAN/SOCKET AND 1-1/4" CONDUIT FOR METERING CABLES. INSTALL PER UTILITY COMPANY REQUIREMENTS.
5. 3/4" CONDUIT WITH 1-#6 (CU) GROUNDING ELECTRODE CONDUCTOR. CONNECT TO 5/8" ROUND x 10'-0" LONG COPPER CLAD STEEL DRIVEN GROUND ROD.
6. THREE (3) SETS OF 3" CONDUIT WITH 4-#400KCMIL (AL) IN EACH.
7. 800A/3P, FUSED, NEMA 3R DISCONNECT SWITCH WITH (3) 800A FUSES.
8. 3/4" CONDUIT WITH 1-#6 (CU) GROUNDING ELECTRODE CONDUCTOR. CONNECT TO 3/4" ROUND x 12'-0" LONG COPPER CLAD STEEL DRIVEN GROUND ROD.
9. 3/4" CONDUIT WITH 1-#4 (CU) GROUNDING ELECTRODE CONDUCTOR. CONNECT TO 20'-0" LONG COPPER CLAD STEEL CONDUCTOR IN CONCRETE BUILDING FOOTING.
10. 3/4" CONDUIT WITH 1-#2/0 (CU) GROUND WIRE. CONNECT TO COLD WATER SERVICE PIPE, AHEAD OF MAIN SHUT-OFF.
11. 3/4" CONDUIT WITH 1-#2/0 (CU) GROUND WIRE. CONNECT TO BUILDING STEEL.
12. THREE (3) SETS OF 3" CONDUIT WITH 4-#400KCMIL (AL) AND 1-#1/0 (CU) EQUIPMENT GROUNDING CONDUCTOR IN EACH.
13. 100KW/125KVA, 277/480V, 3-PHASE, 4-WIRE EMERGENCY GENERATOR WITH 150A/3P OUTPUT CIRCUIT BREAKER. NEMA 3R ENCLOSURE.
14. 2" PVC CONDUIT WITH 4-#1/0 (CU) AND 1-#6 (CU) EQUIPMENT GROUNDING CONDUCTOR IN EACH.
15. 2" CONDUIT WITH 4-#1/0 (CU) AND 1-#6 (CU) EQUIPMENT GROUNDING CONDUCTOR IN EACH.
16. 150A/3P/SN AUTOMATIC TRANSFORMER SWITCH. NEMA 1 ENCLOSURE.
17. 1-1/4" CONDUIT WITH 3-#3 (CU) AND 1-#8 (CU) EQUIPMENT GROUNDING CONDUCTOR.
18. 75KVA TRANSFORMER WITH 480VOLT DELTA PRIMARY - 208Y/120V, 3-PHASE, 4W SECONDARY. INSTALL ON VIBRATION ISOLATION PAD.
19. 3/4" CONDUIT WITH 1-#2 (CU) GROUNDING ELECTRODE CONDUCTOR. CONNECT TO BUILDING STEEL.
20. 2" CONDUIT WITH 4-#3/0 (CU) AND 1-#6 (CU) EQUIPMENT GROUNDING CONDUCTOR.
21. 2-1/2" CONDUIT WITH 3-#250KCMIL (CU) AND 1-#4 (CU) EQUIPMENT GROUNDING CONDUCTOR.
22. 150KVA TRANSFORMER WITH 480VOLT DELTA PRIMARY - 208Y/120V, 3-PHASE, 4W SECONDARY. INSTALL ON VIBRATION ISOLATION PAD.
23. 3/4" CONDUIT WITH 1-#2 (CU) GROUNDING ELECTRODE CONDUCTOR. CONNECT TO BUILDING STEEL.
24. TWO (2) SETS OF 2" CONDUITS WITH 4-#3/0 (CU) AND 1-#3 (CU) EQUIPMENT GROUNDING CONDUCTOR IN EACH.



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SCHEDULE OF 'MDP' 22kAIC					SERVICE ENTRANCE LABEL 100% NEUTRAL BUS, GROUND BUS SURFACE MOUNTED, NEMA 1 800A MAINS	
277/480 VOLTS		3 PHASE		4 WIRE		
CIR. NO.	DESCRIPTION	BREAKER		DEMAND		
		FRAME	POLE	TRIP	AMPS	
M	MAIN CIRCUIT BREAKER	800	3	800	436.4	1
1	PANEL 'HEP'	200	3	150	137.4	1
2	XFMR 'TLP'	250	3	250	180.0	1
3	RTU-4	100	3	15	11.0	
4	RTU-5	100	3	45	33.0	
5	RTU-6	100	3	20	16.0	
6	RTU-7	100	3	45	33.0	
7	RTU-8	100	3	35	26.0	
8	SPARE	100	3	-	-	

PANEL SCHEDULE NOTES #

1. ESTIMATED FUTURE DEMAND.

PANEL		LP		120/208		VOLTS		■ 400 A. BUS		□ SERVICE ENTRANCE	
				3		PHASE		■ 400 A. MAIN BREAKER		■ FEED THRU LUGS	
10KVA SECTION		1 OF 2		4		WIRE		□ MAIN LUGS ONLY		□ SUBFEED LUGS	
CIRC. NO.	CIRCUIT DESCRIPTION	CIRC. AMPS	BRKR. POLES	VA	Ø	CIRC. NO.	CIRCUIT DESCRIPTION	CIRC. AMPS	BRKR. POLES	VA	
1	STRIP LIGHTS	20	1	1262	A	2	WP/GF REC - RTU	20	1	900	
3	LTS - EXTERIOR BLDG	20	1	358	B	4	-	20	1	-	
5	SITE LIGHTING	20	1	408	C	6	-	20	1	-	
7	-	20	1	-	A	8	-	20	1	-	
9	-	20	1	-	B	10	-	20	1	-	
11	-	20	1	-	C	12	-	20	1	-	
13	-	20	1	-	A	14	-	20	1	-	
15	-	20	1	-	B	16	-	20	1	-	
17	-	20	1	-	C	18	-	20	1	-	
19	-	20	1	-	A	20	-	20	1	-	
21	-	20	1	-	B	22	-	20	1	-	
23	-	20	1	-	C	24	-	20	1	-	
25	-	20	1	-	A	26	-	20	1	-	
27	-	20	1	-	B	28	-	20	1	-	
29	-	20	1	-	C	30	-	20	1	-	
31	-	20	1	-	A	32	-	20	1	-	
33	-	20	1	-	B	34	-	20	1	-	
35	-	20	1	-	C	36	-	20	1	-	
37	-	20	1	-	A	38	-	20	1	-	
39	-	20	1	-	B	40	-	20	1	-	
41	-	20	1	-	C	42	-	20	1	-	
TOTAL CONNECTED LOAD		DEMAND FACTORS:									
2028 VA		LIGHTS @ 125 % = 2535 VA									
		RECEPTS @ 100 % = - VA									
		RECEPTS @ 50 % = - VA									
		OTHER @ 100 % = - VA									
		TOTAL DEMAND LOAD = 2535 VA									
■ SURFACE MOUNTED											
□ FLUSH MOUNTED											
		NEUTRAL BUS 100 %									
		POWER FACTOR 100 %									
		1 DEMAND CURRENT 360.0 AMPS									

PANEL		LP	120/208	VOLTS	<input checked="" type="checkbox"/> 400	A. BUS	<input type="checkbox"/> SERVICE ENTRANCE			
		3		PHASE	<input type="checkbox"/> -	A. MAIN BREAKER	<input type="checkbox"/> FEED THRU LUGS			
SECTION		2	OF	2	4		WIRE	<input type="checkbox"/> MAIN LUGS ONLY	<input type="checkbox"/> SUBFEED LUGS	
CIRC. NO.	CIRCUIT DESCRIPTION	CIRC. AMPS	BRKR. POLES	VA	Ø	CIRC. NO.	CIRCUIT DESCRIPTION	CIRC. AMPS	BRKR. POLES	VA
43	-	20	1	-	A	44	-	20	1	-
45	-	20	1	-	B	46	-	20	1	-
47	-	20	1	-	C	48	-	20	1	-
49	-	20	1	-	A	50	-	20	1	-
51	-	20	1	-	B	52	-	20	1	-
53	-	20	1	-	C	54	-	20	1	-
55	-	20	1	-	A	56	-	20	1	-
57	-	20	1	-	B	58	-	20	1	-
59	-	20	1	-	C	60	-	20	1	-
61	-	20	1	-	A	62	-	20	1	-
63	-	20	1	-	B	64	-	20	1	-
65	-	20	1	-	C	66	-	20	1	-
67	-	20	1	-	A	68	-	20	1	-
69	-	20	1	-	B	70	-	20	1	-
71	-	20	1	-	C	72	-	20	1	-
73	-	20	1	-	A	74	-	20	1	-
75	-	20	1	-	B	76	-	20	1	-
77	-	20	1	-	C	78	-	20	1	-
79	-	20	1	-	A	80	-	20	1	-
81	-	20	1	-	B	82	-	20	1	-
83	-	20	1	-	C	84	-	20	1	-

SEE SECTION 1 FOR
LOAD CALCULATIONS

PANEL		HEP		277/480		VOLTS		<input checked="" type="checkbox"/> 200 A. BUS		<input type="checkbox"/> SERVICE ENTRANCE	
10kAIC SECTION		1 OF 1		3		PHASE		<input type="checkbox"/> - A. MAIN BREAKER		<input type="checkbox"/> FEED THRU LUGS	
				4		WIRE		<input type="checkbox"/> MAIN LUGS ONLY		<input type="checkbox"/> SUBFEED LUGS	
CIRC. NO.		CIRCUIT DESCRIPTION		CIRC. BRKR. AMPS		POLES		VA		Ø	
1		RTU-1		15		3		3051		A 2	
3								3050		B 4	
5								3051		C 6	
7		RTU-3		40		3		8320		A 8	
9								8320		B 10	
11								8320		C 12	
TOTAL CONNECTED LOAD		108064		VA		DEMAND FACTORS: LARGEST MTR @ 125 % = 31200 VA RECEPTS @ 100 % = - VA RECEPTS @ 50 % = - VA OTHER @ 100 % = 83104 VA TOTAL DEMAND LOAD = 114304 VA					
<input checked="" type="checkbox"/> SURFACE MOUNTED <input type="checkbox"/> FLUSH MOUNTED										NEUTRAL BUS 100 % POWER FACTOR 100 % DEMAND CURRENT 137.4 AMPS	

PANEL		LEP		120/208		VOLTS		200		A. BUS		SERVICE ENTRANCE					
10KAC SECTION		1		OF		1		3		PHASE		200		A. MAIN BREAKER		FEED THRU LUGS	
								4		WIRE				MAIN LUGS ONLY		SUBFEED LUGS	
CIRC. NO.	CIRCUIT DESCRIPTION	CIRC. AMPS	BRKR. POLES	VA	Ø	CIRC. NO.	CIRCUIT DESCRIPTION	CIRC. AMPS	BRKR. POLES	VA							
1	LTS - MECH/ELEC	20	1	150	A	2	REC - ELEC RM	20	1	180							
3	-	20	1	-	B	4	REC - WATER/EXTERI	20	1	1080							
5	-	20	1	-	C	6	-	20	1	-							
7	-	20	1	-	A	8	-	20	1	-							
9	-	20	1	-	B	10	-	20	1	-							
11	-	20	1	-	C	12	-	20	1	-							
13	-	20	1	-	A	14	-	20	1	-							
15	-	20	1	-	B	16	-	20	1	-							
17	-	20	1	-	C	18	-	20	1	-							
19	-	20	1	-	A	20	-	20	1	-							
21	-	20	1	-	B	22	-	20	1	-							
23	-	20	1	-	C	24	-	20	1	-							
25	-	20	1	-	A	26	-	20	1	-							
27	-	20	1	-	B	28	-	20	1	-							
29	-	20	1	-	C	30	-	20	1	-							
31	-	20	1	-	A	32	-	20	1	-							
33	-	20	1	-	B	34	-	20	1	-							
35	-	20	1	-	C	36	-	20	1	-							
37	-	20	1	-	A	38	-	20	1	-							
39	-	20	1	-	B	40	-	20	1	-							
41	-	20	1	-	C	42	-	20	1	-							
TOTAL CONNECTED LOAD		DEMAND FACTORS:										NEUTRAL BUS					
2310 VA		LIGHTS @ 125 % = 188 VA										100 %					
		RECEPTS @ 100 % = 2160 VA										POWER FACTOR					
		RECEPTS @ 50 % = - VA										100 %					
		OTHER @ 100 % = - VA										DEMAND CURRENT					
		TOTAL DEMAND LOAD = 2348 VA										360.0 AMPS					
												1					

LIGHT FIXTURE SCHEDULE			
TYPE	MANUFACTURER	LAMP	VOLTS WATTS
A	LITHONIA LTG #TZLD L96 6000LM FST MVOLT 35K BOCRI WH	LED	120 59
B	LITHONIA LTG #ZLD L48 3000LM FST MVOLT 35K BOCRI WH	LED	120 30
P1	LITHONIA LTG #DSX1 LED P3 40K 80CRI BLC3	LED	120 102
W1	ACUITY BRANDS #SQP402-L1L10-FLD_1	LED	120 12
W2	LITHONIA LTG #DSXW1 LED 20C 1000 40K T2M MV	LED	120 73
EM	EXITRONIX #LED90	(2) LED HEADS WITH UNIT	120 10
EEM	EXITRONIX #MLED	WEATHERPROOF LED REMOTE	6 8
X	EXITRONIX #VEX-U-BP-WB-WH-120-R	RED LED WITH UNIT	120 10
XEM	EXITRONIX #VLED-1-WH-EL90-R	RED LED AND (2) LED HEADS WITH UNIT	120 15
NOTES: 1. TYPE 'X' AND/OR 'XEM' FIXTURES SHALL HAVE 12 WATTS OF REMOTE CAPACITY AND POWER TYPE 'EEM'.			

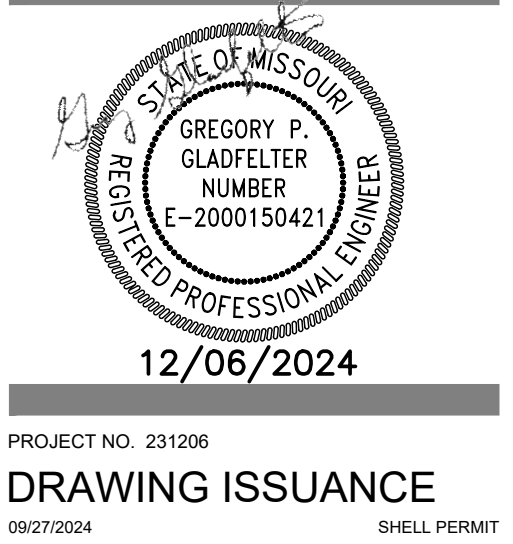
MINIMUM SIZE OF EQUIPMENT GROUNDING CONDUCTORS FOR GRD'G RACEWAY & EQUIPMENT		
(NEC TABLE 250-122)		
RATING OR SETTING OF AUTOMATIC OVER CURRENT PROTECTION DEVICE IN CIRCUIT AHEAD OF EQUIPMENT, CONDUIT, ETC., NOT EXCEEDING THE FOLLOWING.	SIZE (AWG OR KCMIL)	
	COPPER	ALUMINUM OR COPPER CLAD ALUMINUM
15 AMPERES	14	12
20 AMPERES	12	10
30 AMPERES	10	8
40 AMPERES	10	8
60 AMPERES	10	8
100 AMPERES	8	6
200 AMPERES	6	4
300 AMPERES	4	2
400 AMPERES	3	1
500 AMPERES	2	1/0
600 AMPERES	1	2/0
800 AMPERES	1/0	3/0
NOTE: EQUIPMENT AND RACE WAY GROUNDING SHALL COMPLY, AS A MINIMUM, WITH THE CONDUCTOR SIZES REPRESENTED IN THIS TABLE AND WITH OTHER REQUIREMENTS AND ALLOWANCES SET FORTH IN THE NATIONAL ELECTRICAL CODE (NFPA 70).		

MAXIMUM CIRCUIT LENGTH SCHEDULE					
CIRCUIT AMPERES	WIRE SIZE	MAXIMUM CIRCUIT LENGTH IN FEET			
		2 WIRE, 1 PHASE	3 WIRE, 3 PHASE		
20	#12	120 V 60	125 145	125	285
25	#10	80 160	180	160	365
30	#10	65 130	150	130	305
50	#6	95 195	225	195	450
60	#6	80 160	185	160	375
100	#3	95 195	225	195	450
125	#1	125 250	285	250	575
200	3/0	155 310	360	310	725
NOTES: 1. ALL CONDUCTORS ARE SOLID COPPER. APPLICATION OF CONDUCTOR SIZE IS LIMITED TO CONDUCTORS WITH THE FOLLOWING INSULATION TYPES: FEPW, RH, RHW, THHW, THW, THWN, XHHW, AND USE. 2. CIRCUIT LENGTH IS THE ONE WAY DISTANCE FROM THE OVER CURRENT PROTECTION DEVICE TO THE POINT OF USE. 3. IF THE INSTALLED CIRCUIT LENGTH EXCEEDS THE INDICATED MAXIMUM CIRCUIT LENGTH INDICATED, THEN THE CONDUCTORS SHALL BE INCREASED ONE NOMINAL WIRE SIZE.					

A NEW BUILDING FOR:

ASSOCIATED PLASTIC SURGEONS

1-470 BUSINESS & TECHNOLOGY CENTER
NE McBAIN DRIVE
LEE'S SUMMIT, MISSOURI

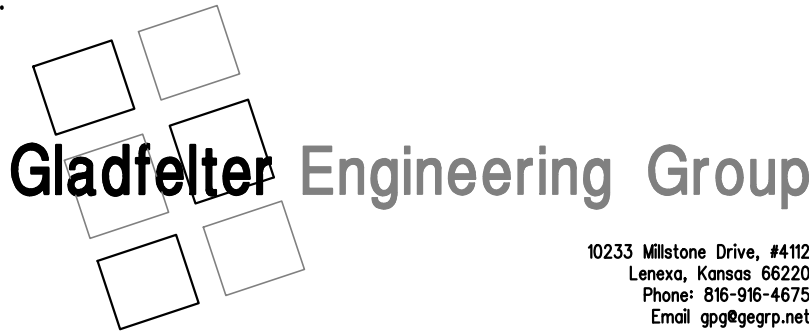


PROJECT NO. 231206

DRAWING ISSUANCE
09/27/2024 SHELL PERMIT

SHEET NUMBER

E3.1S
SCHEDULES



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Gladfelter Engineering Group assumes design responsibility for this project for only the mechanical, plumbing and electrical disciplines with drawing sheet number beginning with M, P and E. All other drawings should be considered the work of others. Further, drawings in this project set may contain drawing information, including but not limited to: architectural plans, sections and elevations, site plans and surveys and other information pertinent to showing the mechanical, plumbing and electrical work which is furnished by others, generally indicated by screened or light type. Gladfelter Engineering Group assumes no responsibility or liability for the accuracy or regulatory compliance for work prepared by others even though shown on MPE drawings. Gladfelter Engineering Group assumes responsibility only for the design of mechanical, plumbing and electrical disciplines contained herein, generally indicated in bold type.

ELECTRICAL SPECIFICATIONS

1.COMMON WORK RESULTS FOR ELECTRICAL

COORDINATION

COORDINATE ARRANGEMENT, MOUNTING, AND SUPPORT OF ELECTRICAL EQUIPMENT:
TO ALLOW MAXIMUM POSSIBLE HEADROOM UNLESS SPECIFIC MOUNTING HEIGHTS THAT
REDUCE HEADROOM ARE INDICATED.
TO PROVIDE FOR EASE OF DISCONNECTING THE EQUIPMENT WITH MINIMUM
INTERFERENCE TO OTHER INSTALLATIONS.
TO ALLOW RIGHT OF WAY FOR PIPING AND CONDUIT INSTALLED AT REQUIRED SLOPE.
SO CONNECTING RACEWAYS, CABLES, WIREWAYS, CABLE TRAYS, AND BUSWAYS WILL
BE CLEAR OF OBSTRUCTIONS AND OF THE WORKING AND ACCESS SPACE OF OTHER
EQUIPMENT.
COORDINATE LOCATION OF ACCESS PANELS AND DOORS FOR ELECTRICAL ITEMS THAT
ARE BEHIND FINISHED SURFACES OR OTHERWISE CONCEALED.

PRODUCTS

SLEEVE SEALS
DESCRIPTION: MODULAR SEALING DEVICE, DESIGNED FOR FIELD ASSEMBLY, TO FILL
ANNULAR SPACE BETWEEN SLEEVE AND RACEWAY OR CABLE.
MANUFACTURERS:
ADVANCE PRODUCTS & SYSTEMS, INC.
CALPICO, INC.
METRAFLEX CO.
PIPELINE SEAL AND INSULATOR, INC.
SEALING ELEMENTS: EPDM WATERLOOCKING LINKS SHAPED TO FIT SURFACE OF CABLE OR
CONDUIT. INCLUDE TYPE AND NUMBER REQUIRED FOR MATERIAL AND SIZE OF RACEWAY OR
CABLE.
PRESSURE PLATES: PLASTIC. INCLUDE TWO FOR EACH SEALING ELEMENT.
CONNECTING BOLTS AND NUTS: STAINLESS STEEL OF LENGTH REQUIRED TO SECURE
PRESSURE PLATES TO SEALING ELEMENTS. INCLUDE ONE FOR EACH SEALING ELEMENT.

EXECUTION

COMMON REQUIREMENTS FOR ELECTRICAL INSTALLATION
COMPLY WITH NECA 1
SLEEVE INSTALLATION FOR ELECTRICAL PENETRATIONS
ELECTRICAL PENETRATIONS OCCUR WHEN RACEWAYS, CABLES, WIREWAYS, CABLE TRAYS,
OR BUSWAYS PENETRATE CONCRETE SLABS, CONCRETE OR MASONRY WALLS, OR
FIRE-RATED FLOOR AND WALL ASSEMBLIES.
CONCRETE SLABS AND WALLS: INSTALL SLEEVES FOR PENETRATIONS UNLESS
CORE-DRILLED HOLES OR FORMED OPENINGS ARE USED. INSTALL SLEEVES DURING
ERECTION OF SLABS AND WALLS.
USE PIPE SLEEVES UNLESS PENETRATION ARRANGEMENT REQUIRES RECTANGULAR
SLEEVED OPENING.
FIRE-RATED ASSEMBLIES: INSTALL SLEEVES FOR PENETRATIONS OF FIRE-RATED FLOOR
AND WALL ASSEMBLIES UNLESS OPENINGS COMPATIBLE WITH FIRESTOP SYSTEM USED ARE
FABRICATED DURING CONSTRUCTION OF FLOOR OR WALL.
CUT SLEEVES TO LENGTH FOR MOUNTING FLUSH WITH BOTH SURFACES OF WALLS.
INTERIOR PENETRATIONS OF NON-FIRE-RATED WALLS AND FLOORS: SEAL ANNULAR SPACE
BETWEEN SLEEVE AND RACEWAY OR CABLE, USING JOINT SEALANT APPROPRIATE FOR SIZE,
DEPTH, AND LOCATION OF JOINT.
FIRE-RATED ASSEMBLY PENETRATIONS: MAINTAIN INDICATED FIRE RATING OF WALLS,
PARTITIONS, CEILINGS, AND FLOORS AT RACEWAY AND CABLE PENETRATIONS. INSTALL
SLEEVES AND SEAL RACEWAY AND CABLE PENETRATION SLEEVES WITH FIRESTOP
MATERIALS.
ROOF-PENETRATION SLEEVES: SEAL PENETRATION OF INDIVIDUAL RACEWAYS AND CABLES
WITH FLEXIBLE BOOT-TYPE FLASHING UNITS APPLIED IN COORDINATION WITH ROOFING
WORK.
ABOVEGROUND, EXTERIOR-WALL PENETRATIONS: SEAL PENETRATIONS USING STEEL PIPE
SLEEVES AND MECHANICAL SLEEVE SEALS. SELECT SLEEVE SIZE TO ALLOW FOR 1-INCH
(25-MM) ANNULAR CLEAR SPACE BETWEEN PIPE AND SLEEVE FOR INSTALLING MECHANICAL
SLEEVE SEALS.
UNDERGROUND, EXTERIOR-WALL PENETRATIONS: INSTALL CAST-IRON PIPE SLEEVES. SIZE
SLEEVES TO ALLOW FOR 1-INCH (25-MM) ANNULAR CLEAR SPACE BETWEEN RACEWAY OR
CABLE AND SLEEVE FOR INSTALLING MECHANICAL SLEEVE SEALS.
SLEEVE-SEAL INSTALLATION
INSTALL TO SEAL EXTERIOR WALL PENETRATIONS.
FIRESTOPPING
APPLY FIRESTOPPING TO PENETRATIONS OF FIRE-RATED FLOOR AND WALL ASSEMBLIES
FOR ELECTRICAL INSTALLATIONS TO RESTORE ORIGINAL FIRE-RESISTANCE RATING OF
ASSEMBLY.

2.GROUNDING AND BONDING

QUALITY ASSURANCE
ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED
IN NFPA 70, ARTICLE 100, BY A TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING
JURISDICTION, AND MARKED FOR INTENDED USE.
COMPLY WITH UL 467 FOR GROUNDING AND BONDING MATERIALS AND EQUIPMENT.

PRODUCTS

CONDUCTORS
INSULATED CONDUCTORS: COPPER WIRE OR CABLE INSULATED FOR 600 V UNLESS
OTHERWISE REQUIRED BY APPLICABLE CODE OR AUTHORITIES HAVING JURISDICTION.
BARE COPPER CONDUCTORS:
SOLID CONDUCTORS: ASTM B 3.
STRANDED CONDUCTORS: ASTM B 8.
GROUNDING ELECTRODES
GROUND RODS: COPPER-CLAD, 3/4 INCH Ø BY 10 FEET (19 MM BY 3 M) IN DIAMETER.

EXECUTION

APPLICATIONS
CONDUCTORS: INSTALL SOLID CONDUIT FOR NO. 8 AWG AND SMALLER, AND STRANDED
CONDUCTORS FOR NO. 6 AWG AND LARGER, UNLESS OTHERWISE INDICATED.
GROUNDING BUS: INSTALL IN ELECTRICAL AND TELEPHONE EQUIPMENT ROOMS, IN ROOMS
HOUSING SERVICE EQUIPMENT, AND ELSEWHERE AS INDICATED. INSTALL BUS ON
INSULATED SPACERS 1 INCH (25 MM) MINIMUM FROM EACH 6 INCHES (150 MM) ABOVE
FINISHED FLOOR, UNLESS OTHERWISE INDICATED.
EQUIPMENT GROUNDING
INSTALL INSULATED EQUIPMENT GROUNDING CONDUCTORS WITH ALL FEEDERS AND
BRANCH CIRCUITS.
METAL POLES SUPPORTING OUTDOOR LIGHTING FIXTURES: INSTALL GROUNDING
ELECTRODE AND A SEPARATE INSULATED EQUIPMENT GROUNDING CONDUCTOR IN
ADDITION TO GROUNDING CONDUIT INSTALLED WITH BRANCH-CIRCUIT CONDUCTORS.
INSTALLATION
BONDING STRAPS AND JUMPERS: INSTALL IN LOCATIONS ACCESSIBLE FOR INSPECTION AND
MAINTENANCE, EXCEPT WHERE ROUTED THROUGH SHORT LENGTHS OF CONDUIT.
BONDING TO STRUCTURE: BOND STRAPS DIRECTLY TO BASIC STRUCTURE, TAKING
CARE NOT TO PENETRATE ANY ADJACENT PARTS.
BONDING TO EQUIPMENT: MOUNTED ON CONDUCTOR GRIPPING PIECES AS REQUIRED TO ISOLATE
SUPPORTS: INSTALL. SO VIBRATION IS NOT TRANSMITTED TO RIGIDLY MOUNTED
EQUIPMENT.
USE EXOTHERMIC-WELDED CONNECTORS FOR OUTDOOR LOCATIONS, BUT IF A
DISCONNECT-TYPE CONNECTION IS REQUIRED, USE A BOLTED CLAMP.
GROUNDING AND BONDING FOR PIPING:
METAL WATER SERVICE PIPE: INSTALL INSULATED COPPER GROUNDING CONDUCTORS,
IN CONDUIT, FROM BUILDING'S MAIN SERVICE EQUIPMENT OR GROUNDING BUS, TO MAIN
METAL WATER SERVICE ENTRANCES TO BUILDING. CONNECT GROUNDING
CONDUCTORS TO MAIN METAL WATER SERVICE PIPES, USING A BOLTED CLAMP
CONNECTOR OR BY BOLTING A LUG-TYPE CONNECTOR TO A PIPE FLANGE, USING ONE
OF THE LUG BOLTS OF THE FLANGE. WHERE A DIELECTRIC MAIN WATER FITTING IS
INSTALLED, CONNECT GROUNDING CONDUCTOR ON STREET SIDE OF FITTING. BOND
METAL GROUNDING CONDUCTOR CONDUIT OR SLEEVE TO CONDUIT AT EACH END.
WATER METER PIPING: USE BRAIDED-TYPE BONDING JUMPERS TO ELECTRICALLY
BYPASS WATER METERS. CONNECT TO PIPE WITH A BOLTED CONNECTOR.
BOND EACH ABOVEGROUND PORTION OF GAS PIPING SYSTEM DOWNSTREAM FROM
EQUIPMENT SHUTOFF VALVE.
GROUNDING FOR STEEL BUILDING STRUCTURE: INSTALL A DRIVEN GROUND ROD AT BASE
OF EACH CORNER COLUMN AND AT INTERMEDIATE EXTERIOR COLUMNS AT DISTANCES NOT
MORE THAN 80 FEET (18 M) APART.

3.HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS

QUALITY ASSURANCE
COMPLY WITH NFPA 70.

PRODUCTS

SUPPORT: ANCHORAGE, AND ATTACHMENT COMPONENTS
RACEWAY AND CABLE SUPPORTS: AS DESCRIBED IN NECA 1 AND NECA 101.
CONDUIT AND CABLE SUPPORT DEVICES: STEEL AND MALLEABLE-IRON HANGERS, CLAMPS,
AND ASSOCIATED FITTINGS, DESIGNED FOR TYPES AND SIZES OF RACEWAY OR CABLE TO BE
SUPPORTED.
SUPPORT FOR CONDUCTORS IN VERTICAL CONDUIT: FACTORY-FABRICATED ASSEMBLY
CONSISTING OF THREADED BODY AND INSULATING WEDGING PLUG OR PLUGS FOR
NON-ARMORED ELECTRICAL CONDUCTORS OR CABLES IN RISER CONDUITS. PLUGS SHALL
HAVE NUMBER, SIZE, AND SHAPE OF CONDUCTOR GRIPPING PIECES AS REQUIRED TO SUIT
INDIVIDUAL CONDUCTORS OR CABLES SUPPORTED. BODY SHALL BE MALLEABLE IRON.

EXECUTION

APPLICATION
COMPLY WITH NECA 1 AND NECA 101 FOR APPLICATION OF HANGERS AND SUPPORTS FOR
ELECTRICAL EQUIPMENT AND SYSTEMS EXCEPT IF REQUIREMENTS IN THIS SECTION ARE
STRICTER.
MAXIMUM SUPPORT SPACING AND MINIMUM HANGER ROD SIZE FOR RACEWAY: SPACE
SUPPORTS FOR EMT, IMC, AND LFMC AS REQUIRED BY NFPA 70. MINIMUM ROD SIZE SHALL BE
1/4 INCH (6 MM) IN DIAMETER.

MULTIPLE RACEWAYS OR CABLES: INSTALL TRAPEZE-TYPE SUPPORTS FABRICATED WITH
STEEL SLOTTED SUPPORT SYSTEM, SIZED SO CAPACITY CAN BE INCREASED BY AT LEAST 25
PERCENT IN FUTURE WITHOUT EXCEEDING SPECIFIED DESIGN LOAD LIMITS. SECURE
RACEWAYS AND CABLES TO THESE SUPPORTS WITH TWO-BOLT CONDUIT CLAMPS.
SUPPORT INSTALLATION
COMPLY WITH NECA 1 AND NECA 101 FOR INSTALLATION REQUIREMENTS EXCEPT AS
SPECIFIED IN THIS ARTICLE.
RACEWAY SUPPORT METHODS: IN ADDITION TO METHODS DESCRIBED IN NECA 1, EMT, IMC,
AND RMC MAY BE SUPPORTED BY OPENINGS THROUGH STRUCTURE MEMBERS, AS
PERMITTED IN THIS ARTICLE.
MOUNTING AND ANCHORAGE OF SURFACE-MOUNTED EQUIPMENT AND COMPONENTS:
ANCHOR AND FASTEN ELECTRICAL ITEMS AND THEIR SUPPORTS TO BUILDING STRUCTURAL
ELEMENTS BY THE FOLLOWING METHODS UNLESS OTHERWISE INDICATED BY CODE:
TO WOOD: FASTEN WITH LAG SCREWS OR THROUGH BOLTS.
TO NEW CONCRETE: BOLT TO CONCRETE INSERTS.
TO MASONRY: APPROVED TOGGLE-TYPE BOLTS ON HOLLOW MASONRY UNITS AND
EXPANSION ANCHOR FASTENERS ON SOLID MASONRY UNITS.
TO EXISTING CONCRETE: EXPANSION ANCHOR FASTENERS.
INSTEAD OF EXPANSION ANCHORS, POWDER-ACTUATED DRIVEN THREADED STUDS
PROVIDED WITH LOCK WASHERS AND NUTS MAY BE USED IN EXISTING.
STANDARD-WEIGHT CONCRETE 4 INCHES (100 MM) THICK OR GREATER. DO NOT USE
FOR ANCHORAGE TO LIGHTWEIGHT-AGGREGATE CONCRETE OR FOR SLABS LESS THAN
4 INCHES (100 MM) THICK.
TO STEEL: BEAM CLAMPS (MSS TYPE 19, 21, 23, 25, OR 27) COMPLYING WITH MSS SP-69.
TO LIGHT STEEL: SHEET METAL SCREWS.
ITEMS MOUNTED ON HOLLOW WALLS AND NONSTRUCTURAL BUILDING SURFACES:
CABINETS, PANELBOARDS, DISCONNECT SWITCHES, CONTROL ENCLOSURES, PULL
AND JUNCTION BOXES, TRANSFORMERS, AND OTHER DEVICES ON SLOTTED-CHANNEL RACKS
ATTACHED TO SUBSTRATE.

4. CONDUCTORS AND CABLES

QUALITY ASSURANCE
ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED
IN NFPA 70, ARTICLE 100, BY A TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING
JURISDICTION, AND MARKED FOR INTENDED USE.
COMPLY WITH NFPA 70.

PRODUCTS

CONDUCTORS AND CABLES
MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS
BY ONE OF THE FOLLOWING:
ALCAN PRODUCTS CORPORATION; ALCAN CABLE DIVISION.
AMERICAN INSULATED WIRE CORP.; A LEVITON COMPANY.
GENERAL CABLE CORPORATION.
SENATOR WIRE & CABLE COMPANY.
SOUTHWIRE COMPANY.
COPPER CONDUCTORS: COMPLY WITH NEMA WC 70.
CONDUCTOR INSULATION: COMPLY WITH NEMA WC 70 FOR TYPE THN-THWN.
MULTICONDUCTOR CABLE: COMPLY WITH NEMA WC 70 FOR METAL-CLAD CABLE, TYPE MC
WITH GROUND WIRE.
CONNECTORS AND SPLICES
AVAILABLE MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS,
MANUFACTURERS OFFERING PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK
INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
AFC CABLE SYSTEMS, INC.
HUBBELL POWER SYSTEMS, INC.
O-Z GEDNEY, A UNIT OF GENERAL SIGNAL.
3M: ELECTRICAL PRODUCTS DIVISION.
TYCO ELECTRONICS CORP.
DESCRIPTION: FACTORY-FABRICATED CONNECTORS AND SPLICES OF SIZE, AMPACITY
RATING, MATERIAL, TYPE, AND CLASS FOR APPLICATION AND SERVICE INDICATED.

EXECUTION

CONDUCTOR MATERIAL APPLICATIONS
FEEDERS: COPPER. SOLID FOR NO. 10 AWG AND SMALLER; STRANDED FOR NO. 8 AWG AND
LARGER.
BRANCH CIRCUITS: COPPER. SOLID FOR NO. 10 AWG AND SMALLER; STRANDED FOR
NO. 8 AWG AND LARGER.
CONDUCTOR INSULATION AND MULTICONDUCTOR CABLE APPLICATIONS AND WIRING
METHODS
SERVICE ENTRANCE, FEEDERS: TYPE THHN-THWN, SINGLE CONDUCTORS IN RACEWAY.
BRANCH CIRCUITS CONCEALED IN CONCRETE, BELOW SLABS-ON-GRADE, AND
UNDERGROUND: TYPE THHN-THWN, SINGLE CONDUCTORS IN RACEWAY.
BRANCH CIRCUITS NOT CONCEALED IN CONCRETE: TYPE THHN-THWN, SINGLE
CONDUCTORS IN RACEWAY OR METAL-CLAD CABLE, TYPE MC.
INSTALLATION OF CONDUCTORS AND CABLES
CONCEAL CABLES IN FINISHED WALLS, CEILINGS, AND FLOORS, UNLESS OTHERWISE
INDICATED.
INSTALL EXPOSED CABLES PARALLEL AND PERPENDICULAR TO SURFACES OF EXPOSED
STRUCTURAL MEMBERS, AND FOLLOW SURFACE CONTOURS WHERE POSSIBLE.
IDENTIFY AND COLOR-CODE CONDUCTORS AND CABLES ACCORDING TO SECTION "HANGERS
AND SUPPORTS FOR ELECTRICAL SYSTEMS."

5.RACEWAYS AND BOXES

QUALITY ASSURANCE
ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED
IN NFPA 70, ARTICLE 100, BY A TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING
JURISDICTION, AND MARKED FOR INTENDED USE.
COMPLY WITH NFPA 70.

PRODUCTS

METAL CONDUIT AND TUBING
MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS
BY ONE OF THE FOLLOWING:
ALLIED TUBE & CONDUIT; A TYCO INTERNATIONAL LTD. CO.
O-Z GEDNEY, A UNIT OF GENERAL SIGNAL.
WHEATLAND TUBE COMPANY.
FITTINGS FOR CONDUIT (INCLUDING ALL TYPES AND FLEXIBLE AND LIGHTDUTY), EMT, AND
CABLE: NEMA FB 1, LISTED FOR TYPE AND SIZE RACEWAY WITH WHICH USED, AND FOR
APPLICATION AND ENVIRONMENT IN WHICH INSTALLED.
CONDUIT FITTINGS FOR NONHAZARDOUS (CLASSIFIED) LOCATIONS: COMPLY WITH UL 886.
FITTINGS FOR EMT, STEEL OR DIE-CAST, SET-SCREW OR COMPRESSION TYPE FOR
CONCEALED LOCATIONS, STEEL OR DIE-CAST, COMPRESSION TYPE FOR EXPOSED
LOCATIONS.
NONMETALLIC CONDUIT AND TUBING
MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS
BY ONE OF THE FOLLOWING:
CANTEX INC.
CERTAINTED CORP.; PIPE & PLASTICS GROUP.
RACO; A HUBBELL COMPANY.
THOMAS & BETTS CORPORATION.
BOXES, ENCLOSURES, AND CABINETS
MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS
BY ONE OF THE FOLLOWING:
HOFFMAN.
HUBBELL INCORPORATED; KILLARK ELECTRIC MANUFACTURING CO. DIVISION.
O-Z GEDNEY, A UNIT OF GENERAL SIGNAL.
RACO; A HUBBELL COMPANY.
THOMAS & BETTS CORPORATION.
WALKER SYSTEMS, INC.; WIREMOLD COMPANY (THE).

EXECUTION

RACEWAY APPLICATION
OUTDOORS: APPLY RACEWAY SURFACES AS SPECIFIED BELOW, UNLESS OTHERWISE
INDICATED.
EXPOSED AND CONCEALED CONDUIT: RIGID STEEL CONDUIT.
UNDERGROUND CONDUIT: RNC, TYPE EPC-40-PVC, RIGID STEEL CONDUIT, OR IMC BEFORE
CONNECTION TO VIBRATING EQUIPMENT (INCLUDING TRANSFORMERS AND HYDRAULIC,
PNEUMATIC, ELECTRIC SOLENOID, OR MOTOR-DRIVEN EQUIPMENT); LFNC.
BOXES AND ENCLOSURES, ABOVEGROUND: NEMA 250, TYPE 3R.
COMPLY WITH THE FOLLOWING INDOOR APPLICATIONS UNLESS OTHERWISE INDICATED:
EXPOSED: EMT.
CONCEALED IN CEILINGS AND INTERIOR WALLS AND PARTITIONS: EMT, UNLESS MC
ALLOWED PER "CONDUCTORS AND CABLES" SECTION.
CONNECTION TO VIBRATING EQUIPMENT (INCLUDING TRANSFORMERS AND HYDRAULIC,
PNEUMATIC, ELECTRIC SOLENOID, OR MOTOR-DRIVEN EQUIPMENT): FMC, EXCEPT USE
LFMC IN DAMP OR WET LOCATIONS.
DAMP OR WET LOCATIONS: RIGID STEEL CONDUIT.
RACEWAYS FOR OPTICAL FIBER OR COMMUNICATIONS CABLE: EMT.
BOXES AND ENCLOSURES: NEMA 250, TYPE 1, EXCEPT USE NEMA 250, TYPE 4,
NONMETALLIC IN DAMP OR WET LOCATIONS.
MINIMUM RACEWAY SIZE: 1/2-INCH (16-MM) TRADE SIZE.
DO NOT INSTALL ALUMINUM CONDUITS IN CONTACT WITH CONCRETE.
COMPLY WITH NECA 1 FOR INSTALLATION REQUIREMENTS APPLICABLE TO PRODUCTS
SPECIFIED IN PART 2 EXCEPT WHERE REQUIREMENTS ON DRAWINGS OR IN THIS ARTICLE
ARE STRICTER.
KEEP RACEWAYS AT LEAST 6 INCHES (150 MM) AWAY FROM PARALLEL RUNS OF FLUES AND
STEAM OR HOT-WATER PIPES. INSTALL HORIZONTAL RACEWAY RUNS ABOVE WATER AND
STEAM PIPING.
SUPPORT RACEWAYS AS SPECIFIED IN "HANGERS AND SUPPORTS FOR ELECTRICAL
SYSTEMS."
ARRANGE STUB-UPS SO CURVED PORTIONS OF BENDS ARE NOT VISIBLE ABOVE THE
FINISHED SLAB.
INSTALL NO MORE THAN THE EQUIVALENT OF THREE 90-DEGREE BENDS IN ANY CONDUIT

RUN EXCEPT FOR COMMUNICATIONS CONDUITS, FOR WHICH FEWER BENDS ARE ALLOWED.
CONCEAL CONDUIT AND EMT WITHIN FINISHED WALLS, CEILINGS, AND FLOORS, UNLESS
OTHERWISE INDICATED.
RACEWAYS EMBEDDED IN SLABS:

RUN CONDUIT LARGER THAN 1-INCH (27-MM) TRADE SIZE, PARALLEL OR AT RIGHT
ANGLES TO MAIN REINFORCEMENT. WHERE AT RIGHT ANGLES TO REINFORCEMENT,
PLACE CONDUIT CLOSE TO SLAB SUPPORT.
ARRANGE RACEWAYS TO CROSS BUILDING EXPANSION JOINTS AT RIGHT ANGLES WITH
EXPANSION FITTINGS.
REINFORCE FROM ENT TO RNC, TYPE EPC-40-PVC, RIGID STEEL CONDUIT, OR IMC BEFORE
RISING ABOVE THE FLOOR.
RACEWAY TERMINATIONS AT LOCATIONS SUBJECT TO MOISTURE OR VIBRATION: USE
INSULATING FUSES; LOCKABLE HANDLE WITH CAPABILITY TO ACCEPT TWO PADLOCKS, AND
INTERLOCKED WITH COVER IN CLOSED POSITION.
INSTALL PULL WIRES IN EMPTY RACEWAYS. USE POLYPROPYLENE OR MONOFILAMENT
PLASTIC LINE NOT LESS THAN 200-LB (90-KG) TENSILE STRENGTH. LEAVE AT LEAST 12
INCHES (300 MM) OF SLACK AT EACH END OF PULL WIRE.
RACEWAYS FOR OPTICAL FIBER AND COMMUNICATIONS CABLE: INSTALL RACEWAYS,
METALLIC AND NONMETALLIC, RIGID AND FLEXIBLE, WITH A MAXIMUM OF TWO 90-DEGREE
BENDS OR EQUIVALENT FOR EACH LENGTH OF RACEWAY UNLESS DRAWINGS SHOW.
STRICTER REQUIREMENTS. SEPARATE LENGTHS WITH PULL OR JUNCTION BOXES OR
TERMINATIONS AT DISTRIBUTION FRAMES OR CABINETS WHERE NECESSARY TO COMPLY
WITH THESE REQUIREMENTS.
FLEXIBLE CONDUIT CONNECTIONS: USE MAXIMUM OF 72 INCHES (1830 MM) OF FLEXIBLE
CONDUIT FOR RECESSED AND SEMIRECESSED LIGHTING FIXTURES, EQUIPMENT SUBJECT TO
VIBRATION, NOISE TRANSMISSION, OR MOVEMENT; AND FOR TRANSFORMERS AND MOTORS.
USE LFMC IN DAMP OR WET LOCATIONS SUBJECT TO SEVERE PHYSICAL DAMAGE.
USE LFMC OR LFNC IN DAMP OR WET LOCATIONS NOT SUBJECT TO SEVERE PHYSICAL
DAMAGE.
RECESSED BOXES IN MASONRY WALLS: SAW-CUT OPENING FOR BOX IN CENTER OF CELL OF
MASONRY BLOCK, AND INSTALL BOX FLUSH WITH SURFACE OF WALL.

6.WIRING DEVICES

QUALITY ASSURANCE
ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED
IN NFPA 70, ARTICLE 100, BY A TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING
JURISDICTION, AND MARKED FOR INTENDED USE.
COMPLY WITH NFPA 70.
COORDINATION
RECEPTACLES FOR OWNER-FURNISHED EQUIPMENT: MATCH PLUG CONFIGURATIONS.
CORD AND PLUG SETS: MATCH EQUIPMENT REQUIREMENTS.

PRODUCTS

STRAIGHT BLADE RECEPTACLES
CONVENIENCE RECEPTACLES: 125 V, 20 A: COMPLY WITH NEMA WD 1, NEMA WD 6
CONFIGURATION 5-20R, AND UL 498.
PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE
FOLLOWING:
COOPER, 5351 (SINGLE), 5352 (DUPLX).
HUBBELL: HBL5351 (SINGLE), CR5352 (DUPLX).
LEVITON: 5881 (SINGLE), 5352 (DUPLX).
PASS & SEYMOUR: 5381 (SINGLE), 5352 (DUPLX).
GFCI RECEPTACLES
DUPLX GFCI CONVENIENCE RECEPTACLES: 125 V, 20 A:
PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE
FOLLOWING:
COOPER: GP20.
PASS & SEYMOUR: 2084.
HUBBELL: EQUAL.
LEVITON: EQUAL.
WALL PLATES
SINGLE AND COMBINATION TYPES TO MATCH CORRESPONDING WIRING DEVICES.
PLATE-SECURING SCREWS: METAL WITH HEAD COLOR TO MATCH PLATE FINISH.
MATERIAL FOR DAMP LOCATIONS: CAST ALUMINUM WITH SPRING-LOADED FLIP COVER,
AND LISTED AND LABELED FOR USE IN "WET LOCATIONS."
WET-LOCATION, WEATHERPROOF COVER PLATES: NEMA 250, COMPLYING WITH TYPE 3R
WEATHER-RESISTANT, DIE-CAST ALUMINUM WITH LOCKABLE COVER.

7.LIGHTING CONTROL DEVICES

QUALITY ASSURANCE
ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED
IN NFPA 70, ARTICLE 100, BY A TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING
JURISDICTION, AND MARKED FOR INTENDED USE.
COORDINATION
COORDINATE LAYOUT AND INSTALLATION OF CEILING-MOUNTED DEVICES WITH OTHER
CONSTRUCTION THAT PENETRATES CEILINGS OR IS SUPPORTED BY THEM, INCLUDING LIGHT
FIXTURES, HVAC EQUIPMENT, SMOKE DETECTORS, FIRE-SUPPRESSION SYSTEM, AND
PARTITION ASSEMBLIES.

PRODUCTS

TIME SWITCHES
BASIS-OF-DESIGN PRODUCT: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE THE
PRODUCT SPECIFIED ON DRAWINGS OR A COMPARABLE PRODUCT BY ONE OF THE
FOLLOWING:
INTERMATIC, INC.
SQUARE D; SCHNEIDER ELECTRIC.
TORK.
WATT STOPPER (THE).
ELECTRONIC TIME SWITCHES: ELECTRONIC, SOLID-STATE PROGRAMMABLE UNITS WITH
ALPHANUMERIC DISPLAY; COMPLYING WITH UL 917.
CONTACT CONFIGURATION: SPST.
CONTACT RATING: 20-A BALLAST LOAD, 120/240-V AC.
PROGRAM: 2 ON OFF SET POINTS ON A 24-HOUR SCHEDULE, ALLOWING DIFFERENT SET
POINTS FOR EACH DAY OF THE WEEK.
CIRCUITRY: ALLOW CONNECTION OF A PHOTOELECTRIC RELAY AS SUBSTITUTE FOR
ON-OFF FUNCTION OF A PROGRAM.
ASTRONOMIC TIME: ALL CHANNELS.
BATTERY BACKUP: FOR SCHEDULES AND TIME CLOCK.
OUTDOOR PHOTOELECTRIC SWITCHES
MATERIAL: HARD-DRAWN COPPER, 98 PERCENT CONDUCTIVITY.
PRODUCT BY ONE OF THE FOLLOWING:
INTERMATIC, INC.
SQUARE D; SCHNEIDER ELECTRIC.
TORK.
WATT STOPPER (THE).
DESCRIPTION: SOLID STATE, WITH SPST DRY CONTACTS RATED FOR 1800 VA TO OPERATE
CONNECTED LOAD, RELAY, OR CONTACTOR COILS; COMPLYING WITH UL 773.
LIGHT-LEVEL MONITORING RANGE: 1.5 TO 10 FC (16.14 TO 108 LX), WITH AN ADJUSTMENT FOR
TURN-ON AND TURN-OFF LEVELS WITHIN THAT RANGE.
BONDING TO EQUIPMENT: MOUNTED ON VIBRATION ISOLATION, TO PREVENT FALSE OPERATION.
LIGHTNING ARRESTER: AIR-GAP TYPE.
MOUNTING: TWIST LOCK COMPLYING WITH IEEE C136.10, WITH BASE.
LIGHTING CONTACTORS
BASIS-OF-DESIGN PRODUCT: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE A
PRODUCT BY ONE OF THE FOLLOWING:
EATON ELECTRICAL INC.; CUTLER-HAMMER PRODUCTS.
GE INDUSTRIAL SYSTEMS; TOTAL LIGHTING CONTROL.
SQUARE D; SCHNEIDER ELECTRIC.
DESCRIPTION: ELECTRICALLY OPERATED AND ELECTRICALLY HELD, COMPLYING WITH
NEMA KS 1 AND UL 508.
CURRENT RATING FOR SWITCHING: LISTING OR RATING CONSISTENT WITH TYPE OF
LOAD SERVED, INCLUDING TUNGSTEN FILAMENT, INDUCTIVE, AND HIGH-NORMAL BALLAST
BALLAST WITH 15 PERCENT OR LESS TOTAL HARMONIC DISTORTION OF NORMAL LOAD
CURRENT.
FAULT CURRENT WITHSTAND RATING: EQUAL TO OR EXCEEDING THE AVAILABLE FAULT
CURRENT AT THE POINT OF INSTALLATION.
ENCLOSURE: COMPLY WITH NEMA 250.
PROVIDE WITH CONTROL AND PILOT DEVICES AS INDICATED ON DRAWINGS, MATCHING
THE NEMA TYPE SPECIFIED FOR THE ENCLOSURE.

EXECUTION

FIELD QUALITY CONTROL
OPERATIONAL TEST: VERIFY OPERATION OF EACH LIGHTING CONTROL DEVICE, AND ADJUST
TIME DELAYS.

8.ENCLOSED SWITCHES

SUBMITTALS

PRODUCT DATA: FOR EACH TYPE OF ENCLOSED SWITCH. INCLUDE DIMENSIONED
ELEVATIONS, SECTIONS, WEIGHTS, AND MANUFACTURERS' TECHNICAL DATA ON FEATURES,
PERFORMANCE, ELECTRICAL CHARACTERISTICS, RATINGS, ACCESSORIES, AND FINISHES.
QUALITY ASSURANCE
PRODUCT SELECTION FOR RESTRICTED SPACE: DRAWINGS INDICATE MAXIMUM DIMENSIONS
FOR ENCLOSED SWITCHES AND CIRCUIT BREAKERS, INCLUDING CLEARANCES BETWEEN
ENCLOSURES, AND ADJACENT SURFACES AND OTHER ITEMS. COMPLY WITH INDICATED
MAXIMUM DIMENSIONS.
ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED
IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND
APPLICATION.
COMPLY WITH NFPA 70.
COORDINATION
COORDINATE LAYOUT AND INSTALLATION OF SWITCHES AND COMPONENTS WITH
EQUIPMENT SERVICES AND ADJACENT SURFACES. MAINTAIN REQUIRED WORKSPACE
CLEARANCES AND REQUIRED CLEARANCES FOR EQUIPMENT ACCESS DOORS AND PANELS.

PRODUCTS

FUSIBLE AND NONFUSIBLE SWITCHES
MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS
BY ONE OF THE FOLLOWING:
EATON ELECTRICAL INC.; CUTLER-HAMMER BUSINESS UNIT.
GE INDUSTRIAL SYSTEMS; GE CONSUMER & INDUSTRIAL - ELECTRICAL
DISTRIBUTION.
SIEMENS ENERGY & AUTOMATION, INC.
SQUARE D; A BRAND OF SCHNEIDER ELECTRIC.
TYPE GD, GENERAL DUTY, SINGLE THROW, 240-V AC, 800 A AND SMALLER: UL 98 AND
NEMA KS 1, HORSEPOWER RATED, WITH CARTRIDGE FUSE INTERIORS TO ACCOMMODATE
INDICATED FUSES; LOCKABLE HANDLE WITH CAPABILITY TO ACCEPT TWO PADLOCKS, AND
INTERLOCKED WITH COVER IN CLOSED POSITION.
TYPE HD, HEAVY DUTY, SINGLE THROW, [240] [600]-V AC, 1200 A AND SMALLER: UL 98 AND
NEMA KS 1, HORSEPOWER RATED, WITH CLIPS OR BOLT PADS TO ACCOMMODATE
INDICATED FUSES; LOCKABLE HANDLE WITH CAPABILITY TO ACCEPT THREE
PADLOCKS, AND INTERLOCKED WITH COVER IN CLOSED POSITION.
ACCESSORIES:

EQUIPMENT GROUND KIT: INTERNALLY MOUNTED AND LABELED FOR COPPER AND
ALUMINUM GROUND CONDUCTORS.
NEUTRAL KIT: INTERNALLY MOUNTED, INSULATED, CAPABLE OF BEING GROUNDED AND
BONDED; LABELED FOR COPPER AND ALUMINUM NEUTRAL CONDUCTORS.
MECHANICAL TYPE, SUITABLE FOR NUMBER, SIZE, AND CONDUCTOR MATERIAL.
SERVICE-RATED SWITCHES: LABELED FOR USE AS SERVICE EQUIPMENT.
ENCLOSURES
ENCLOSED SWITCHES AND CIRCUIT BREAKERS: NEMA AB 1, NEMA KS 1, NEMA 250, AND
UL 50, TO COMPLY WITH ENVIRONMENTAL CONDITIONS AT INSTALLED LOCATION.
INDOOR, DRY AND CLEAN LOCATIONS: NEMA 250, TYPE 1.
OUTDOOR LOCATIONS: NEMA 250, TYPE 3R.

EXECUTION

INSTALLATION
INSTALL INDIVIDUAL WALL-MOUNTED SWITCHES AND CIRCUIT BREAKERS WITH TOPS AT
UNIFORM HEIGHT UNLESS OTHERWISE INDICATED.
COMPLY WITH NECA 1.
IDENTIFICATION
COMPLY WITH REQUIREMENTS IN SECTION "ELECTRICAL IDENTIFICATION."
IDENTIFY FIELD-INSTALLED CONDUCTORS, INTERCONNECTING WIRING, AND
COMPONENTS: PROVIDE WARNING SIGNS.
LABEL EACH ENCLOSURE WITH ENGRAVED METAL OR LAMINATED-PLASTIC NAMEPLATE.

9.PANELBOARDS

SUBMITTALS

PRODUCT DATA: FOR EACH TYPE OF PANELBOARD, SWITCHING AND OVERCURRENT
PROTECTIVE DEVICE, TRANSIENT VOLTAGE SUPPRESSION DEVICE, ACCESSORY, AND
COMPONENT INDICATED. INCLUDE DIMENSIONS AND MANUFACTURERS' TECHNICAL DATA ON
FEATURES, PERFORMANCE, ELECTRICAL CHARACTERISTICS, RATINGS, AND FINISHES.
OPERATION AND MAINTENANCE DATA: FOR PANELBOARDS AND COMPONENTS TO INCLUDE
IN EMERGENCY, OPERATION, AND MAINTENANCE MANUALS.
QUALITY ASSURANCE

PRODUCT SELECTION FOR RESTRICTED SPACE: DRAWINGS INDICATE MAXIMUM DIMENSIONS
FOR PANELBOARDS, INCLUDING CLEARANCES BETWEEN PANELBOARDS AND ADJACENT
SURFACES AND OTHER ITEMS. COMPLY WITH INDICATED MAXIMUM DIMENSIONS.
ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED
IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND
APPLICATION.
COMPLY WITH NEMA PB 1.
COMPLY WITH NFPA 70.

COORDINATION
COORDINATE LAYOUT AND INSTALLATION OF PANELBOARDS AND COMPONENTS WITH OTHER
CONSTRUCTION THAT PENETRATES WALLS OR IS SUPPORTED BY THEM, INCLUDING
MATERIALS OR WORKMANSHIP WITHIN SPECIFIED WARRANTY PERIOD. WARRANTY PERIOD:
WORKSPACE CLEARANCES AND REQUIRED CLEARANCES FOR EQUIPMENT ACCESS DOORS
AND PANELS.
WARRANTY
SPECIAL WARRANTY: MANUFACTURER'S STANDARD FORM IN WHICH MANUFACTURER
AGREES TO REPAIR OR REPLACE TRANSIENT VOLTAGE SUPPRESSION DEVICES THAT FAIL IN
MATERIALS OR WORKMANSHIP WITHIN SPECIFIED WARRANTY PERIOD. WARRANTY PERIOD:
FIVE YEARS FROM DATE OF SUBSTANTIAL COMPLETION.
EXTRA MATERIALS
KEYS: TWO SPARES FOR EACH TYPE OF PANELBOARD CABINET LOCK.

PRODUCTS

GENERAL REQUIREMENTS FOR PANELBOARDS
MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS
BY ONE OF THE FOLLOWING:
EATON ELECTRICAL INC.; CUTLER-HAMMER BUSINESS UNIT.
GE INDUSTRIAL SYSTEMS; GE CONSUMER & INDUSTRIAL - ELECTRICAL
DISTRIBUTION.
SIEMENS ENERGY & AUTOMATION, INC.
SQUARE D; A BRAND OF SCHNEIDER ELECTRIC.
ENCLOSURES: FLUSH- AND SURFACE-MOUNTED CABINETS AS SCHEDULED.
RATED FOR ENVIRONMENTAL CONDITIONS AT INSTALLED LOCATION.
INDOOR DRY AND CLEAN LOCATIONS: NEMA 250, TYPE 1.
OUTDOOR LOCATIONS: NEMA 250, TYPE 3R.
OTHER WET OR DAMP INDOOR LOCATIONS: NEMA 250, TYPE 4.

FINISHES

PANELS AND TRIM: STEEL, FACTORY FINISHED IMMEDIATELY AFTER CLEANING AND
PRETREATING WITH MANUFACTURER'S STANDARD TWO-COAT, BAKED-ON FINISH
CONSISTING OF PRIME COAT AND THERMOSETTING TOPCOAT.
BACK BOXES: GALVANIZED STEEL.
PHASE, NEUTRAL, AND GROUND BUSES
MATERIAL: HARD-DRAWN COPPER, 98 PERCENT CONDUCTIVITY.
EQUIPMENT GROUND BUS: ADEQUATE FOR FEEDER AND BRANCH-CIRCUIT EQUIPMENT
GROUNDING CONDUCTORS; BONDED TO BUS.
CONDUCTOR CONNECTORS: SUITABLE FOR USE WITH CONDUCTOR MATERIAL AND SIZES.
MATERIAL: HARD-DRAWN COPPER, 98 PERCENT CONDUCTIVITY.
MAIN AND NEUTRAL LUGS: MECHANICAL TYPE.
GROUND LUGS AND BUS-COUPLED TERMINATORS: MECHANICAL TYPE.
FEED-THROUGH LUGS: MECHANICAL TYPE, SUITABLE FOR USE WITH CONDUCTOR
MATERIAL. LOCATE AT OPPOSITE END OF BUS FROM INCOMING LUGS OR MAIN BUS.
SERVICE EQUIPMENT LABEL: NRTL LABELED FOR USE AS SERVICE EQUIPMENT FOR
PANELBOARDS OR LOAD CENTERS WITH ONE OR MORE MAIN SERVICE DISCONNECTING AND
OVERCURRENT PROTECTIVE DEVICES.
PANELBOARD SHORT-CIRCUIT CURRENT RATING: RATED FOR SERIES-CONNECTED SYSTEM
WITH INTEGRAL OR REMOTE UPSTREAM OVERCURRENT PROTECTIVE DEVICES AND LABELED
BY AN NRTL. INCLUDE SIZE AND TYPE OF ALLOWABLE UPSTREAM AND BRANCH DEVICES,
LISTED AND LABELED FOR SERIES-CONNECTED SHORT-CIRCUIT RATING BY AN NRTL.
LIGHTING AND APPLIANCE BRANCH-CIRCUIT PANELBOARDS
MATERIAL: CIRCUIT BREAKER OR LUGS ONLY AS SCHEDULED.
BRANCH OVERCURRENT PROTECTIVE DEVICES: BOLT-CIRCUIT BREAKERS, REPLACEABLE
WITHOUT DISTURBING ADJACENT UNITS.

EXECUTION

INSTALLATION
INSTALL PANELBOARDS AND ACCESSORIES ACCORDING TO NEMA PB 1.1.
MOUNT TOP OF TRIM 90 INCHES (2286 MM) ABOVE FINISHED FLOOR UNLESS OTHERWISE
INDICATED.
MOUNT PANELBOARD CABINET FLUSH AND RIGID WITHOUT DISTORTION OF BOX. MOUNT
RECESSED PANELBOARDS WITH FRONTS UNIFORMLY FLUSH WITH WALL FINISH AND MATING
WITH BACK BOX.
INSTALL FILLER PLATES IN UNUSED SPACES.
COMPLY WITH NECA 1.
IDENTIFICATION
PANELBOARD NAMEPLATES: LABEL EACH PANELBOARD WITH A NAMEPLATE COMPLYING
WITH NECA 1.
IDENTIFICATION "I"

10. FUSES

SUBMITTALS

PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED. INCLUDE CONSTRUCTION
DETAILS, MATERIAL, DIMENSIONS, DESCRIPTIONS OF INDIVIDUAL COMPONENTS, AND
FINISHES FOR SPARE-FUSE CABINETS. INCLUDE THE FOLLOWING FOR EACH FUSE TYPE
INDICATED:
QUALITY ASSURANCE
ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED
IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND
APPLICATION.
COMPLY WITH NFPA FJ 1 FOR CARTRIDGE FUSES.
COMPLY WITH NEMA FU 70.

PRODUCTS

MANUFACTURERS
MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS
BY ONE OF THE FOLLOWING:
EDISON FUSE, INC.
FERRAZ SHAWMUT, INC.
TELTEL FUSE, INC.
CARTRIDGE FUSES: NEMA FU 1, NONRENEWABLE CARTRIDGE FUSES WITH VOLTAGE
RATINGS CONSISTENT WITH CIRCUIT VOLTAGES.

EXECUTION

FUSE APPLICATIONS
CARTRIDGE FUSES:
SERVICE ENTRANCE: CLASS RK1, FAST ACTING (t-600A); CLASS L, FAST ACTING (600A
AND GREATER).

11. LIGHTING

SUBMITTALS

PRODUCT DATA: FOR EACH TYPE OF LIGHTING FIXTURE, ARRANGED IN ORDER OF FIXTURE
DESIGNATION. INCLUDE DATA ON FEATURES, ACCESSORIES, FINISHES, AND THE
FOLLOWING:

PHYSICAL DESCRIPTION OF LIGHTING FIXTURE INCLUDING DIMENSIONS.
EMERGENCY LIGHTING UNITS INCLUDING BATTERY AND CHARGER.
R