

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

BUILDING SHELL PERMIT SUBMITTAL: JANUARY 28, 2025



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

SHEET NUMBER	SHEET NAME	CURRENT
II. ARCHITECTUR	E	
A00	COVER	
A0.0	PROJECT INFORMATION	
A0.1	WALL TYPES	
A0.2	ABBREVIATIONS & INDICATIONS	
A1.0	FLOOR PLAN	
A1.1	ROOF PLAN	
A2.0	BUILDING ELEVATIONS	
A2.1	BUILDING ELEVATIONS	
A3.0	BUILDING SECTIONS	
A3.1	WALL SECTIONS	
A3.2	WALL SECTIONS	
A3.3	WALL SECTIONS	
A3.4	WALL SECTIONS	
A3.5	WALL SECTIONS	
A5.0	DETAILS	
A5.1	DETAILS	
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A6.0	DOOR & HARDWARE SCHEDULE	
A6.1	STOREFRONT SCHEDULE	
20 III. STRUCTURE		
S001	STRUCTURAL GENERAL NOTES	
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S003	STRUCTURAL LOADING - SNOW	
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S030	TYPICAL DETAILS - CONCRETE	



SHEET NUMBER	SHEET NAME	CURRENT REVISION
S050	TYPICAL DETAILS - STEEL	
S051	TYPICAL DETAILS - STEEL	
S054	TYPICAL DETAILS - CFS	
S100	FOUNDATION PLAN	
S101	ROOF FRAMING PLAN	
S300	BRACE ELEVATIONS	
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S502	ROOF FRAMING SECTIONS	
S503	ROOF FRAMING SECTIONS	
S504	ROOF FRAMING SECTIONS	
S505	ROOF FRAMING SECTIONS	
17 IV. MEP		
PE200S	PLUMBING/ELECTRICAL UNDERFLOOR PLAN	
P200S	PLUMBING FLOOR PLAN	
MP200	HVAC/PLUMBING ROOF PLAN	
MP300S	PLUMBING/MECHANICAL SPECIFICATIONS	
E1.0	PHOTOMETRIC SITE PLAN	
E1.1	ELECTRICAL SITE PLAN	
E2.0S	POWER FLOOR PLAN	
E2.1S	LIGHTING FLOOR PLAN	
E2.2S	SYSTEMS POWER FLOOR PLAN	
E3.0S	ELECTRICAL NOTES	
E3.1S	ELECTRICAL SCHEDULES	
E4.0S	ELECTRICAL SPECIFICATIONS	
12		

RELEASED FOR CONSTRUCTION As Noted on Plans Review

velopment Services De Lee's Summit, Misso 04/29/2025

Grand total: 49

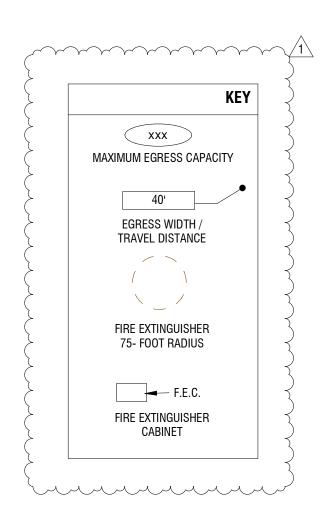
CODE INFORMATION

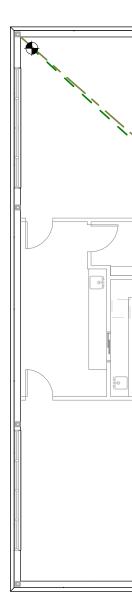
OCCUPANCY USE GROUP: B TYPE OF CONSTRUCTION: V-B

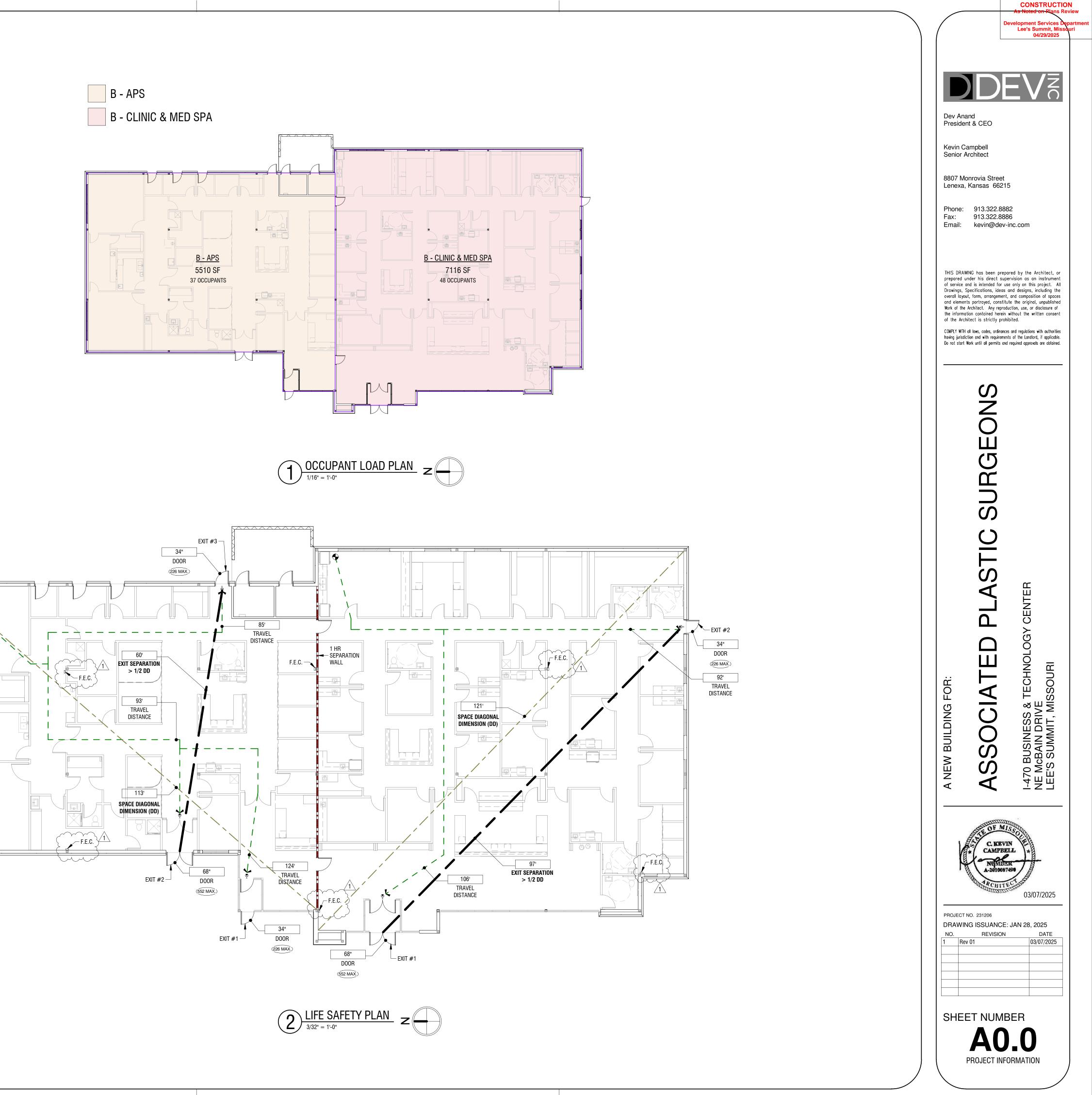
	REQUIRED/ALLOWED	PR	OVIDED	
SQUARE FOOTAGE				
R STORY (IBC 506.2) 36,000 SQ.FT.		12,6	12,626 SQ.FT.	
TOTAL BUILDING AREA	N/A 12,626 SQ.FT		26 SQ.FT.	
NUMBER OF STORY (IBC 504.4)	3 STORIES	STORIES 1 STORY		
BUILDING HEIGHT (IBC 504.3)	60 FT.	2	29 FT.	
BUILDING ELEMENT FIRE RESISTANCE R	ATING			
PRIMARY 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)</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 REQ	UIREMENTS			
FIRE BARRIERS - STAIR ENCLOSURES	N/A	N/A 1HR N/A N/A N/A FIRE & SMOKE ALARM		
FIRE PARTITIONS - DEMISING WALL	1HR			
FIRE PARTITIONS - HOR. ASSEMBLIES	N/A			
FIRE PARTITIONS - CORRIDOR WALLS	N/A			
FIRE PROTECTION SYSTEM	NFPA 13			
FIRE ALARM AND DETECTION (IBC 907)	FIRE & SMOKE ALARM			
EGRESS				
OCCUPANT LOAD	TYPE	SF/LOAD FACTOR	OCCUPANCY LOAD	
-	ASC (BUSINESS)	5,510/150	37	
-	CLINIC & MED SPA (BUSINESS)	7,116/150	48	
-	TOTAL		85	
EGRESS WIDTH - STAIRS (IBC 1005.3)	N/A		N/A	
EGRESS WIDTH - OTHER (IBC 1005.3)	$85 \ge 0.15$ " = 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	В	В		

APPLICABLE BUILDING CODES

- 2018 INTERNATIONAL BUILDING CODE
 2018 INTERNATIONAL PLUMBING 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

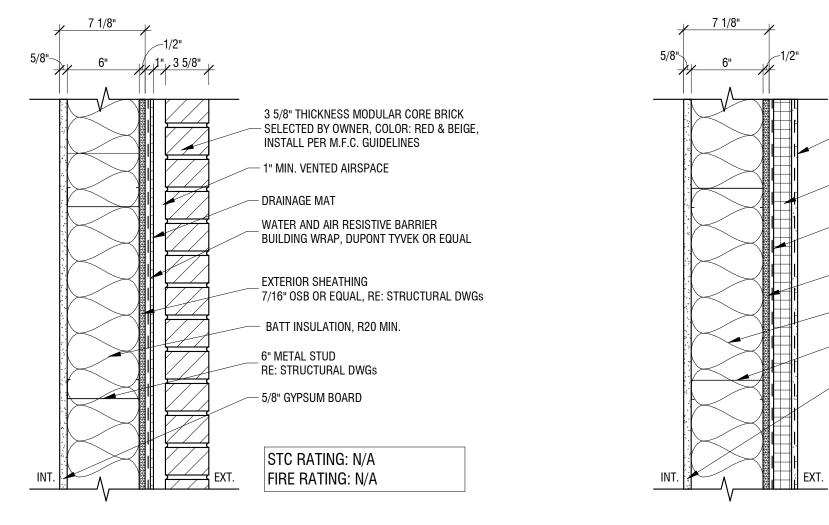


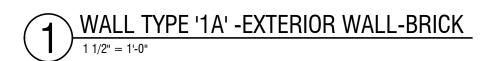


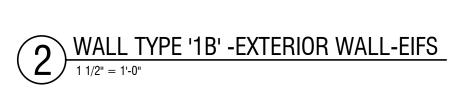


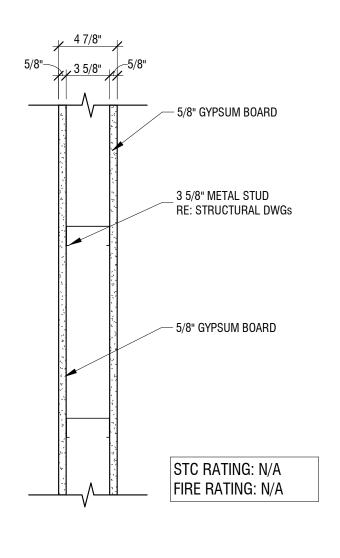
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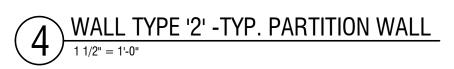
WALL TYPES:

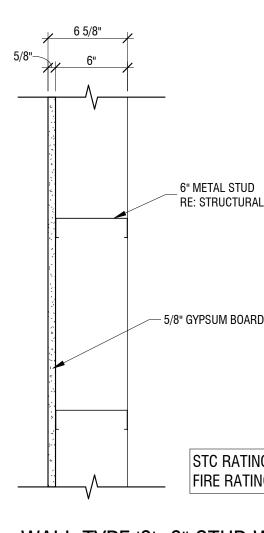






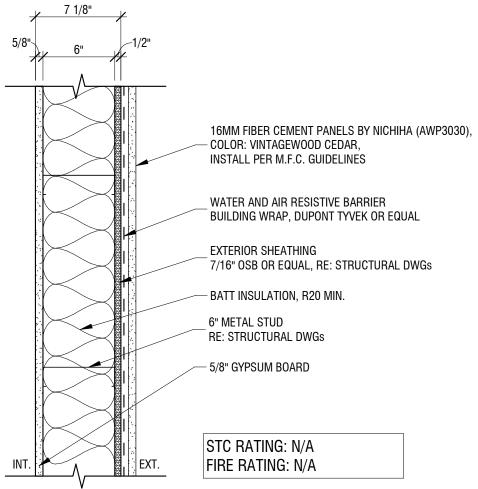








EIFS OVER 1 1/2" RIGID INSULATION — SELECTED BY OWNER, COLOR: BEIGE, INSTALL PER M.F.C. GUIDELINES - 1 1/2" RIGID INSULATION WATER AND AIR RESISTIVE BARRIER BUILDING WRAP, DUPONT TYVEK OR EQUAL EXTERIOR SHEATHING 7/16" OSB OR EQUAL, RE: STRUCTURAL DWGs — BATT INSULATION, R20 MIN. 6" METAL STUD RE: STRUCTURAL DWGs STC RATING: N/A FIRE RATING: N/A



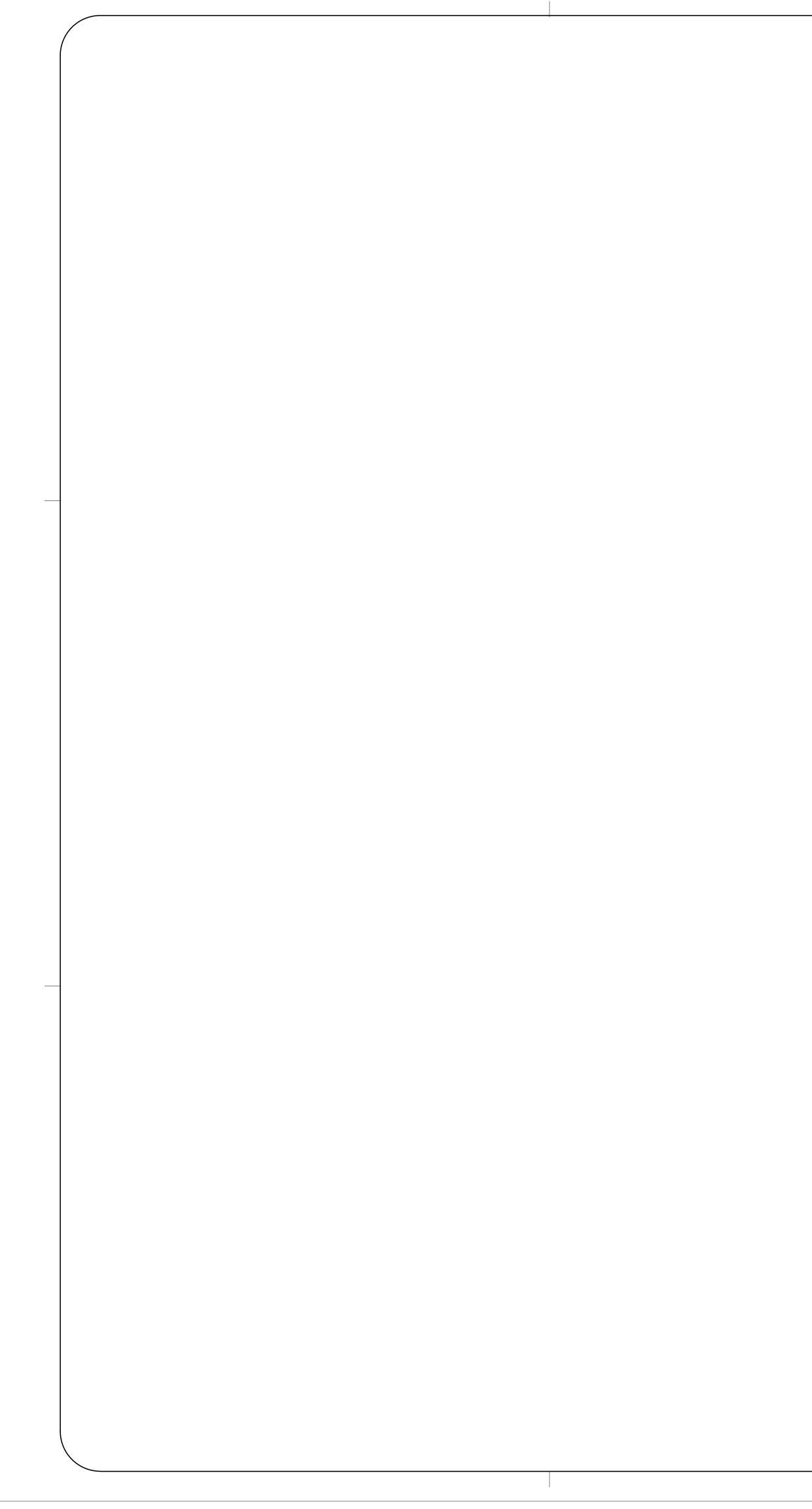
WALL TYPE '1C' -EXTERIOR WALL-FIBER **CEMENT PANEL** 1 1/2" = 1'-0"

RE: STRUCTURAL DWGs

STC RATING: N/A FIRE RATING: N/A

WALL TYPE '3' -6" STUD WALL-1 SIDE

		RELEASED FOR CONSTRUCTION As Noted on Plans Review
		Development Services Department Lee's Summit, Missouri 04/29/2025
		F\/Z
Dev Ana	and	
Presider	nt & CEO	
Kevin Ca Senior A		
	onrovia Stree Kansas 66	
Phone: Fax: Email:	913.322.8 913.322.8 keyin@da	
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		repared by the Architect, or supervision as an instrument
of service a Drawings, S overall layou and element	nd is intended fo Specifications, ide it, form, arrangen ts portrayed, con:	or use only on this project. All eas and designs, including the nent, and composition of spaces stitute the original, unpublished
the informa of the Arch	tion contained her itect is strictly p	
having jurisdic	tion and with require	nances and regulations with authorities ements of the Landlord, if applicable. s and required approvals are obtained.
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	ET NUN	
		TYPES



ABBREVIATIONS

	VIATIONS	K KIT	KITCHEN
A &	AND	L LAV	LAVATORY
ACCESS ACOUS	ACCESSORY ACOUSTIC(AL)	LP	LOW POINT
AFF	ABOVE FINISHED FLOOR	LT LVLG	LIGHT LEVELING
AL/ALUM ALT	ALUMINUM ALTERNATE	LVT	LUXURY VINYL TILE
ANNUNC	ANNUNCIATOR	М	
ANOD APPL	ANODIZED APPLIANCE	MAX MECH	MAXIMUM MECHANICAL
ARCH	ARCHITECT(URAL)	MEMB	MEMBRANE
AUTO AVG	AUTOMATIC AVERAGE	MTL	METAL
		MEZZ MFD	MEZZANINE MANUFACTURED
B BD	BOARD	MFR	MANUFACTURER
BLDG	BUILDING	MIN MISC	MINIMUM MISCELLANEOUS
BLKG BOLLD	BLOCKING BOLLARD	MLWK	MILLWORK
BRDLM	BROADLOOM	MOIST MOT	MOISTURE MOTOR(IZED)
BTHRM BU	BATHROOM BUILT UP	MTD	MOUNTED
BSP	BACKSPLASH	N	
C		NIC	NOT IN CONTRACT
CEM	CEMENT(ITIOUS)	NO NTS	NUMBER NOT TO SCALE
CER CIP	CERAMIC CAST-IN-PLACE		
CLG	CEILING	0 ОН	OPPOSITE HAND
	CLOSET CONCRETE MASONRY UNIT	OPNG	OPENING(S)
CMU COATG	COATING	OPP OPR	OPPOSITE OPERABLE
COILG	COILING	ORD	OVERFLOW ROOF DR
CONC CONSTR	CONCRETE CONSTRUCTION	ORNA OVFL	ORNAMENTAL OVERFLOW
CONT	CONTINUOUS (ATION)	OH	OVERHEAD
CONTR COV	CONTRACT(OR) COVER	Р	
CP CPT	CARPET CARPET TILE	P-LAM	PLASTIC LAMINATE
CTT	COUNTER TOP	PBD PEDR	PARITICLE BOARD PEDESTRIAN
D		PLAS	PLASTER
DBL	DOUBLE	PLSTC PLYWD	PLASTIC PLYWOOD
DEPT DES	DEPARTMENT DESIGN(ED)	PNL	PANEL
DET	DETAIL	POLYST PORT	POLYSTRENE PORTABLE
DF DIA	DRINKING FOUNTAIN DIAMETER	PREFAB	PREFABRICATED
DIFF	DIFFUSER	PREFIN PRTECN	PREFINISHED PROTECTION
DIM DISP	DIMENSION DISPENSER	PTN	PARTITION
DIV	DIVISION	PT	PAINT
DN	DOWN	R	
DR DSCON	DOOR DISCONNECT	RD RDL	ROOF DRAIN ROOF DRAIN LEADER
DWG	DRAWER	RDR	READER
E		RECES RECPT	RECESSED
ELAST	ELASTOMERIC	REF	RECEPTACLE REFER(ENCE)
elec Embed	ELECTRICAL EMBEDD(ED)(ING)	REFL	REFLECTED
ENGR	ENGINEER(ED)	refr Reinf	REFRIGERATOR REINFORCED(D)(ING)
ENTR EQ	ENTRANCE EQUAL	REQD	REQUIRED
EQUIP	EQUIPMENT	RESIL RESIS	RESILIENT RESIST(ANT)(IVE)
EXIST EXP JT	EXISTING EXPANSION JOINT	RFG	ROOFING
EXPS	EXPOSED(D)	RM RO	room Rough opening
EXT	EXTERIOR		
F		SCR	SCRIBE
FAB FD	FABRICATION FLOOR DRAIN	SECUR	SECURITY
FE	FIRE EXTINGUISHER	SF/SQ.FT. SG	SQUARE FEET SINGLE
FE&C FHC	FIRE EXTINGUISHER AND CABINET FIRE HOSE AND CABINET	SHORG	SHORING
FIN	FINISH	SHWR SIM	SHOWER SIMILAR
FLDG FLR	FOLDING FLOOR(ING)	SST	STAINLESS STEEL
FPLC	FIREPLACE	STD STL	STANDARD STEEL
FR FRMG	FIRE RAT(ING)(ED) FRAMING	STRFR	STOREFRONT
FURN	FURNITURE	STRUCT SURF	STRUCTURAL SURFACE
FWC FXD	FABRIC WALL COVERING FIXED	SUSP	SUSPENDED
FXTR	FIXTURE	SYS	SYSTEM(S)
G		T TRC	
GA	GAUGE	T&G THK	TOUNGE AND GROOV THICK
GFRC GFRG	GLASS FIBER REINFORCED CONCRETE GLASS FIBER REINFORCED GYPSUM	TLT	TOILET
GFRP	GLASS FIBER REINFORCED PLASTER	TRAF TRANS	TRAFFIC TRANSPARENT
GL GR	GLASS GRAD(E)(ING)	TRTD	TREATED
GYP	GYPSUM	TYP TL	TYPICAL CERAMIC/PORCELAIN
H		TLB	TILE BASE
HD	HEAD		
HDWD HDWE	HARDWOOD HARDWARE		
HDWE HM	HARDWARE HOLLOW METAL	UNO UTIL	UNLESS NOTED OTHE UTILITY
HORIZ	HORIZONTAL	V	
HP HVAC	HIGH POINT HEATING, VENTILATIING, AND AIR CONDITIONING	VEH	VECHICLE
I		VERT	VERTICAL
I NFILTR	INFILTRATION	VIF	VERIFY IN FIELD
NFO	INFORMATION	W	
NSTRUM NSUL	INSTRUMENT(ATION) INSULATION	W/ W/O	WITH WITHOUT
NT	INTERIOR	WC	WATER CLOSET
INTLK	INTERLOCK(ING)	WD WDB	WOOD WOOD BASE
J		WDW	WINDOW
JAN	JANITOR	WT	WEIGHT

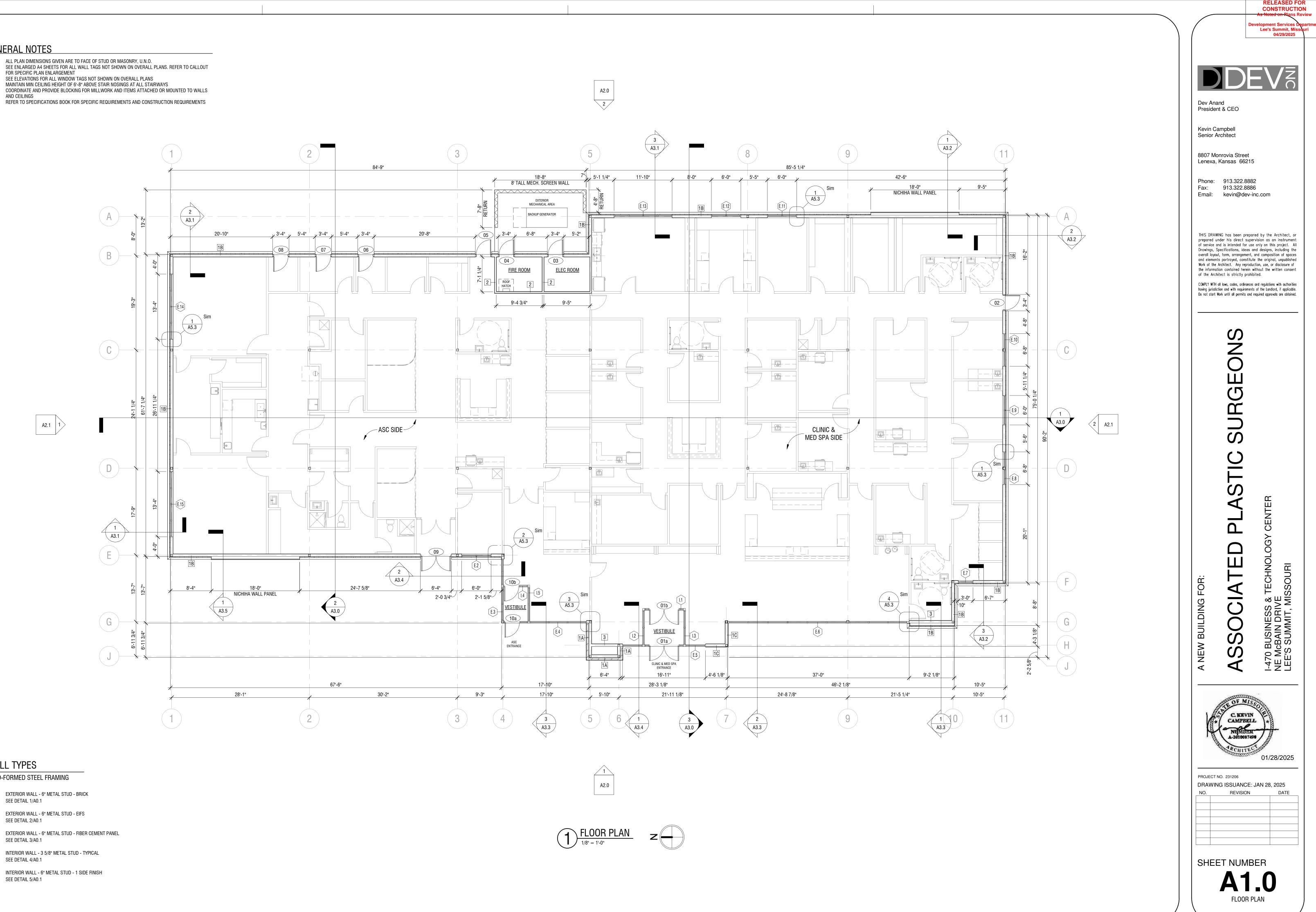
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DRAWING INDICATION				
	COLUMN GRID REFERENCE NUMBER			
	SECTION:			
1 A101	SECTION IDENTIFICATION			
	—— SHEET DESIGNATION			
Ref				
1 A101 1 湮_	ELEVATION: ELEVATION IDENTIFICATION			
1 Ref	SHEET DESIGNATION			
SIM	<u>DETAIL:</u>			
A101	DETAIL IDENTIFICATION SHEET DESIGNATION			
SIM_	DESCRIPTION OF SIMILAR OR OPPOSITE			
1 A101	DETAIL IDENTIFICATION			
	SHEET DESIGNATION			
	AREA TO BE DETAILED			
Room name 	ROOM NAME ROOM NUMBER			
150 SF	ROOM'S NET AREA			
	DOOR DESIGNATION (REFER TO DOOR SCHEDULE)			
(1t)-				
Ť.	WINDOW/STOREFRONT SCHEDULE)			
	SPOT ELEVATION ELEVATION			
<u>2'-0"</u>	ALIGN WITH ESTABLISHED/ADJACENT SURFACES			
2'-0"	—— DIMENSIONS TO FACE OF STUD OR MASONRY			
	— DIMENSIONS TO FACE OF FINISHING, CASEWORK, APPLIANCES OR FIXTURES			
ECTION INDI				
ECTION INDI	CATIONS Description			
	DESCRIPTION			
	DESCRIPTION ACOUSTICAL CEILING TILE			
	DESCRIPTION ACOUSTICAL CEILING TILE ALUMINUM			
SYMBOL	DESCRIPTION ACOUSTICAL CEILING TILE ALUMINUM BRICK CARPET			
SYMBOL	DESCRIPTION ACOUSTICAL CEILING TILE ALUMINUM BRICK			
SYMBOL	DESCRIPTION ACOUSTICAL CEILING TILE ALUMINUM BRICK CARPET			
SYMBOL	DESCRIPTION ACOUSTICAL CEILING TILE ALUMINUM BRICK CARPET CONCRETE			
SYMBOL	DESCRIPTION ACOUSTICAL CEILING TILE ALUMINUM BRICK CARPET CONCRETE CONCRETE MASONRY UNIT			
SYMBOL	DESCRIPTION ACOUSTICAL CEILING TILE ALUMINUM BRICK CARPET CONCRETE CONCRETE MASONRY UNIT EARTH FABRIC WRAPPED PANEL			
SYMBOL	DESCRIPTION ACOUSTICAL CEILING TILE ALUMINUM BRICK CARPET CONCRETE CONCRETE MASONRY UNIT EARTH FABRIC WRAPPED PANEL GLASS			
SYMBOL	DESCRIPTION ACOUSTICAL CEILING TILE ALUMINUM BRICK CARPET CONCRETE CONCRETE MASONRY UNIT EARTH FABRIC WRAPPED PANEL			
SYMBOL	DESCRIPTION ACOUSTICAL CEILING TILE ALUMINUM BRICK CARPET CONCRETE CONCRETE MASONRY UNIT EARTH FABRIC WRAPPED PANEL GLASS			
SYMBOL	DESCRIPTION ACOUSTICAL CEILING TILE ALUMINUM BRICK CARPET CONCRETE CONCRETE MASONRY UNIT EARTH FABRIC WRAPPED PANEL GLASS GRAVEL			
SYMBOL	DESCRIPTION ACOUSTICAL CEILING TILE ALUMINUM BRICK CARPET CONCRETE CONCRETE MASONRY UNIT EARTH FABRIC WRAPPED PANEL GLASS GRAVEL GYPSUM CEILING (PAINTED)			
SYMBOL	DESCRIPTION ACOUSTICAL CEILING TILE ALUMINUM BRICK CARPET CONCRETE CONCRETE CONCRETE MASONRY UNIT EARTH FABRIC WRAPPED PANEL GLASS GRAVEL GYPSUM CEILING (PAINTED) INSULATION (LOOSE OR BATT) INSULATION (RIGID)			
SYMBOL	DESCRIPTION ACOUSTICAL CEILING TILE ALUMINUM BRICK BRICK CARPET CONCRETE CONCRETE CONCRETE MASONRY UNIT EARTH FABRIC WRAPPED PANEL GLASS GRAVEL GYPSUM CEILING (PAINTED) INSULATION (LOOSE OR BATT) INSULATION (RIGID) METAL			
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SYMBOL	DESCRIPTION ACOUSTICAL CEILING TILE ALUMINUM BRICK CARPET CONCRETE CONCRETE CONCRETE MASONRY UNIT EARTH FABRIC WRAPPED PANEL GLASS GRAVEL GYPSUM CEILING (PAINTED) INSULATION (RIGID) METAL PLASTIC PLYWOOD SAND OR GROUT STONE WOOD (FINISHED)			
SYMBOL	DESCRIPTION ACOUSTICAL CEILING TILE ALUMINUM BRICK CARPET CONCRETE 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			

		RELEASED FOR CONSTRUCTION As Noted on Plans Revie
		Development Services Depar Lee's Summit, Missour 04/29/2025
		EV る
Dev Ananc President &	& CEO	
Kevin Carr Senior Arc	hitect	
8807 Monr Lenexa, Ka	ansas 66	215
Fax:	913.322.8 913.322.8 kevin@de	
prepared unde of service and Drawings, Spec overall layout, f and elements p Work of the Arcl the information of the Architec COMPLY WITH all II having jurisdiction	r his direct is intended fo ifications, ide orm, arrangen iortrayed, com- nitect. Any re contained her tt is strictly p aws, codes, ordir and with require	repared by the Architect, or supervision as an instrument r use only on this project. All as and designs, including the ent, and composition of spaces stitute the original, unpublished oroduction, use, or disclosure of ein without the written consent orohibited. ances and regulations with authorities ements of the Landlord, if applicable. and required approvals are obtained.
A NEW BUILDING FOR:	ASSOCIATED PLASTIC SURGEONS	I-470 BUSINESS & TECHNOLOGY CENTER NE McBAIN DRIVE LEE'S SUMMIT, MISSOURI
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		DE: JAN 28, 2025
SHEE		IBER
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GENERAL NOTES

- FOR SPECIFIC PLAN ENLARGEMENT
- SEE ELEVATIONS FOR ALL WINDOW TAGS NOT SHOWN ON OVERALL PLANS MAINTAIN MIN CEILING HEIGHT OF 6'-8" ABOVE STAIR NOSINGS AT ALL STAIRWAYS
- AND CEILINGS
- REFER TO SPECIFICATIONS BOOK FOR SPECIFIC REQUIREMENTS AND CONSTRUCTION REQUIREMENTS 6.



WALL TYPES

COLD-FORMED STEEL FRAMING

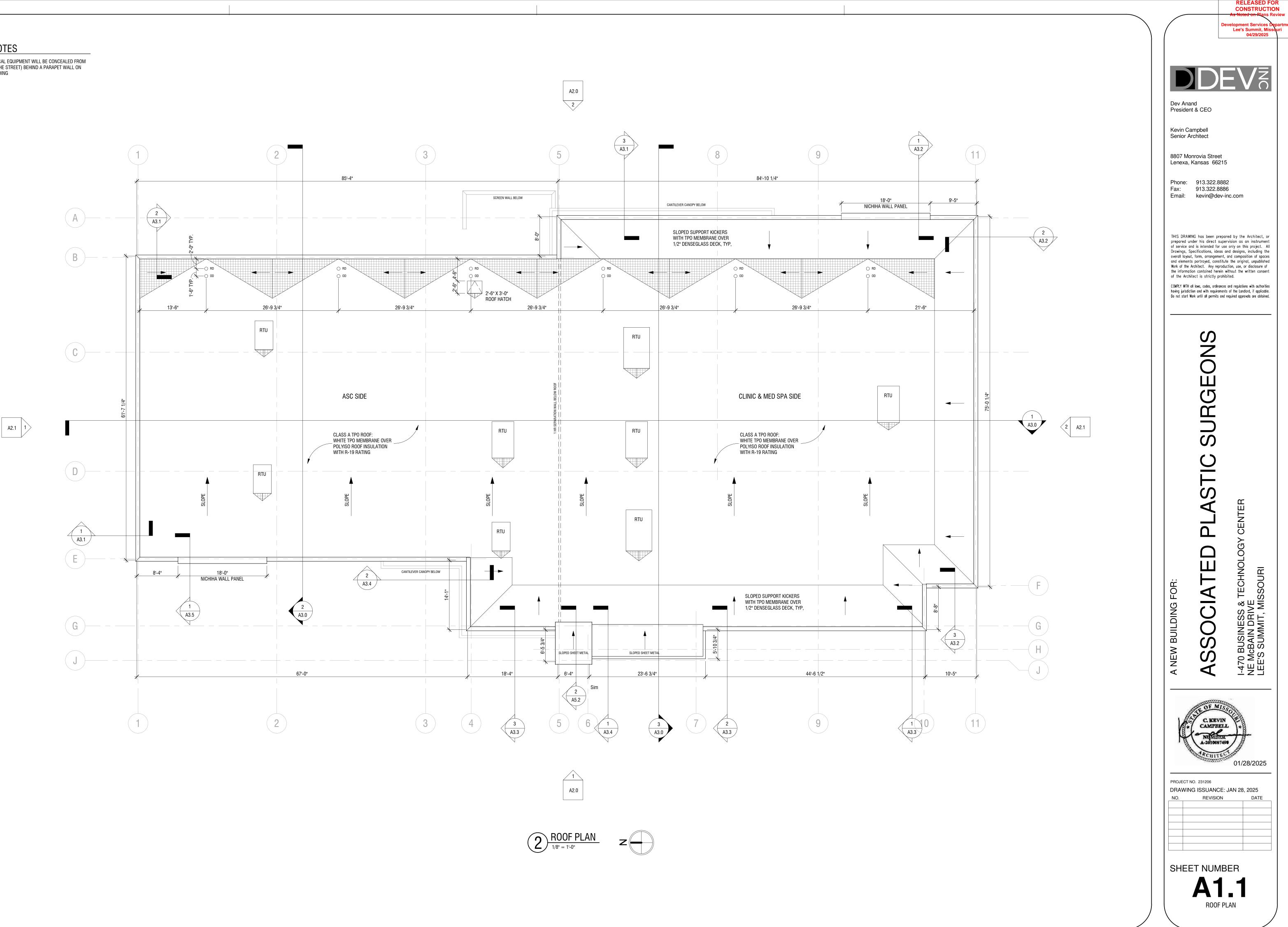
- 1A EXTERIOR WALL 6" METAL STUD BRICK SEE DETAIL 1/A0.1
- 1B EXTERIOR WALL 6" METAL STUD EIFS SEE DETAIL 2/A0.1
- 1C EXTERIOR WALL 6" METAL STUD FIBER CEMENT PANEL SEE DETAIL 3/A0.1

A2.1 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

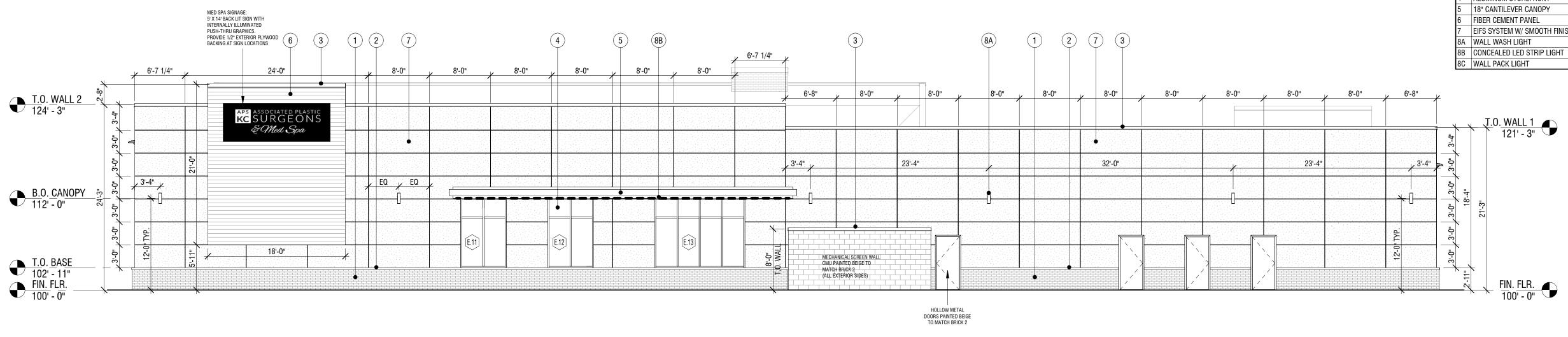


1. ALL MECHANICAL EQUIPMENT WILL BE CONCEALED FROM VIEW (FROM THE STREET) BEHIND A PARAPET WALL ON ROOF OF BUILDING



GENERAL NOTES

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



BRICK

RED BRICK

<u>BRICK</u>

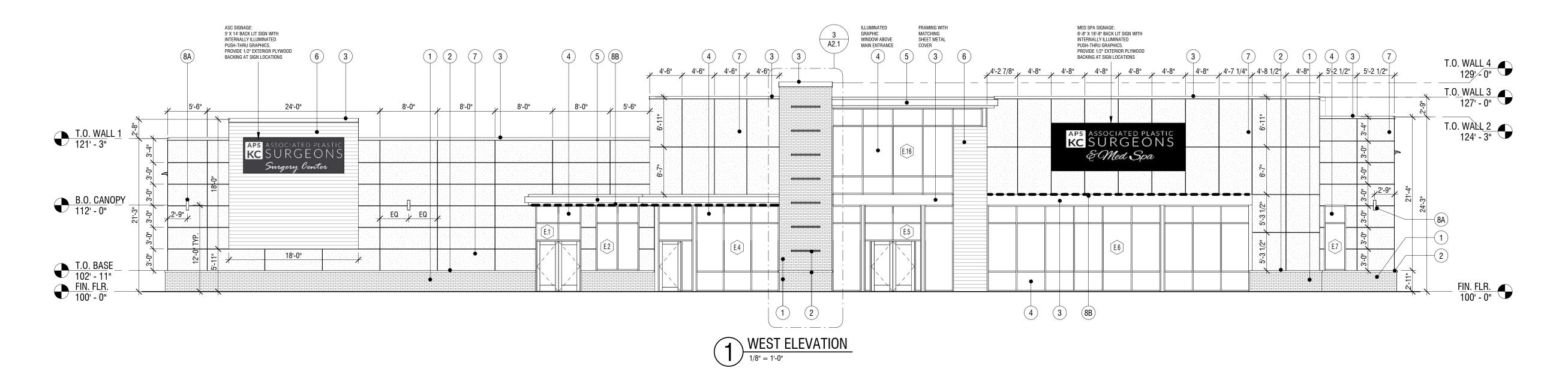
BEIGE BRICK

FIBER CEMENT PANEL

VINTAGEWOOD CEDAR

EIFS SYSTEM

BEIGE



NO.	MATERIAL/ITEMS	DESCRIPTIO
1	BRICK	TO BE SELECTED BY OWNE
2	BRICK	TO BE SELECTED BY OWNE
3	PREFINISHED METAL	COPING/CAP FLASHING
4	ALUMINUM STOREFRONT	W/ 1" INSULATED GLASS
5	PREFINISHED METAL	18" DEEP CANTILEVER CAN
6	FIBER CEMENT PANEL	NICHIHA FIBER CEMENT
7	EIFS SYSTEM	TO BE SELECTED BY OWNE
8	BUILDING LIGHTING	RE: EXTERIOR LIGHTING SC

EXTERIOR LIGHTING SCHEDULE

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	NO.	ТҮРЕ	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		

 $(2) \underbrace{\text{EAST ELEVATION}}_{1/8" = 1"-0"}$

SCRIPTION/MANUFACTURERCOLOR/FINISHBY OWNERCOLOR: RED BRICK (RUNNING BOND)BY OWNERCOLOR: BEIGE BRICK (ROWLOCK BASE CAP & ACCENT BRICK)HINGCOLOR: BLACKGLASSCOLOR (FRAME): BLACKVER CANOPYCOLOR: BLACKMENTCOLOR: VINTAGE WOOD CEDARBY OWNERCOLOR: BEIGE WITH SMOOTH FINISH & SCORING PATTERNHTING SCHEDULEHING

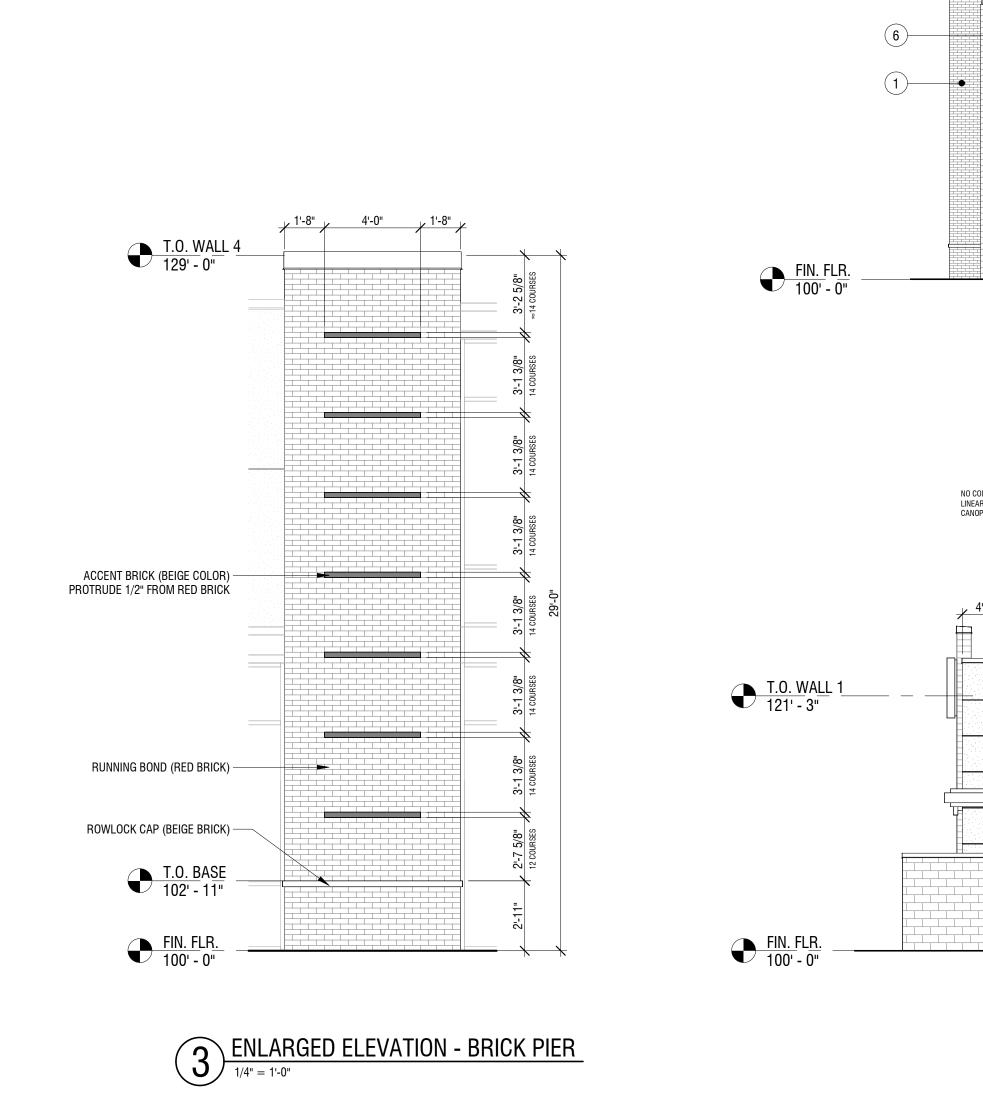
	ELEVATION KEYNOTES	
NO.	NOTES	
1	RED BRICK (RUNNING BOND)	
2	BEIGE BRICK (ROWLOCK CAP & ACCENT BRICK)	
3	PREFINISHED METAL COPING/CAP	
4	ALUMINUM STOREFRONT	
5	18" CANTILEVER CANOPY	
6	FIBER CEMENT PANEL	
7	EIFS SYSTEM W/ SMOOTH FINISH & SCORING PATTERN	
8A	WALL WASH LIGHT	
8B	CONCEALED LED STRIP LIGHT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





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

2. ALL COMMERICAL SIGNAGE WILL BE APPROVED BY SEPARATE APPLICATION AND REPLACE SIGNS SHOWN WILL GENERAL LOCATION WHERE SIGNS WILL BE LOCATED

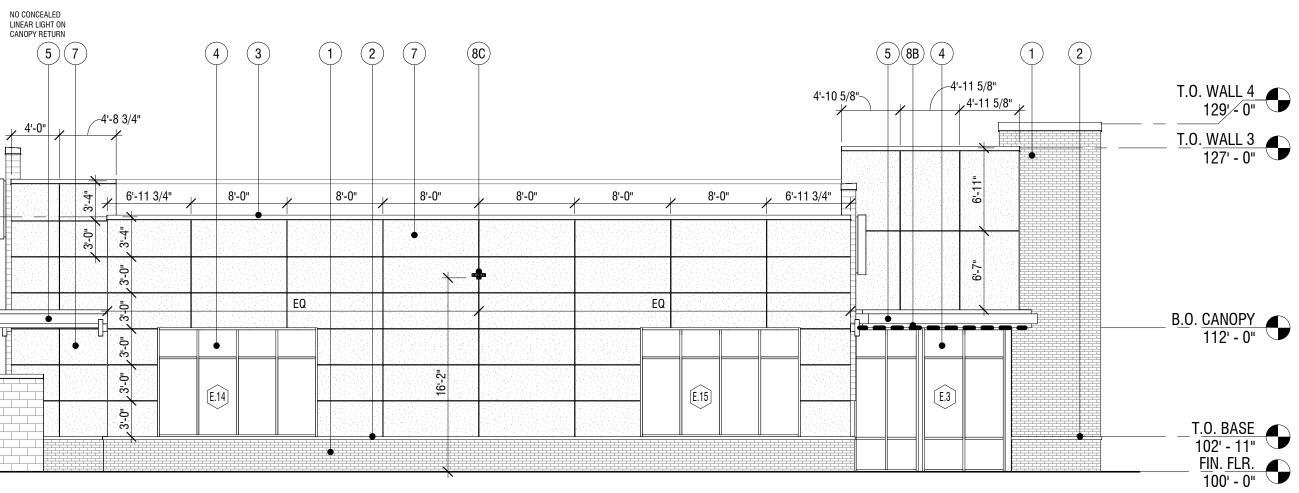


T.O. WALL 4

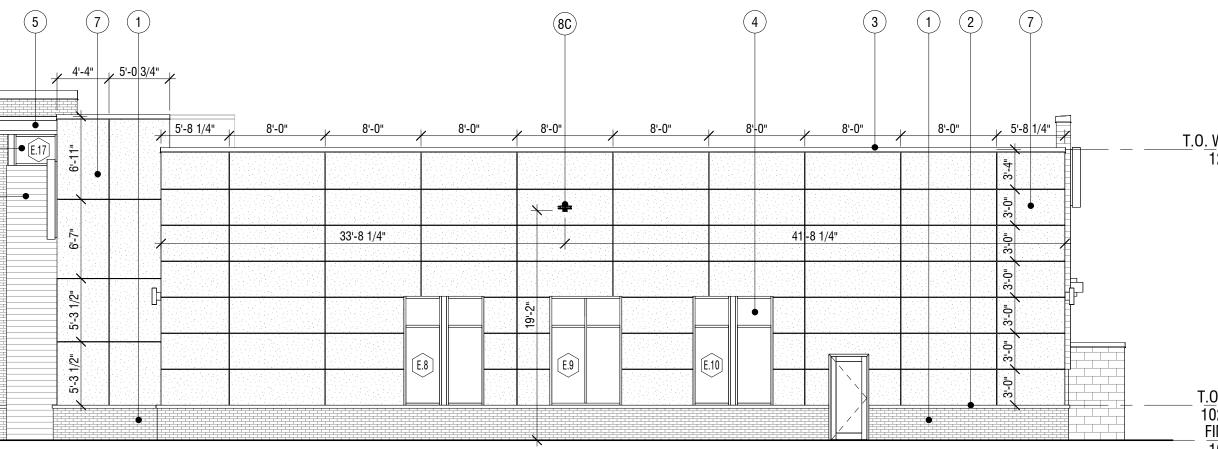
T.O. WALL 3 127' - 0"

(4)-

1) NORTH ELEVATION



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





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 SCHEDUI F

LA	ILLION LIGHTING 3	UNLDULL	
NO.	ТҮРЕ	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

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ment Services Lee's Summit, Missouri 04/29/2025

Dev Anand President & CEO

Kevin Campbell Senior Architect

8807 Monrovia Street Lenexa, Kansas 66215

Phone: 913.322.8882

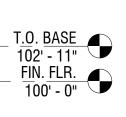
Fax: 913.322.8886 Email: kevin@dev-inc.com

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ELEVATION KEYNOTES
NOTES

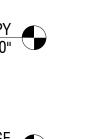
- RED BRICK (RUNNING BOND)
- BEIGE BRICK (ROWLOCK CAP & ACCENT BRICK) PREFINISHED METAL COPING/CAP
- ALUMINUM STOREFRONT
- 18" CANTILEVER CANOPY FIBER CEMENT PANEL
- EIFS SYSTEM W/ SMOOTH FINISH & SCORING PATTERN BA WALL WASH LIGHT
- 8B CONCEALED LED STRIP LIGHT 8C WALL PACK LIGHT

<u>T.O. WALL 2</u> 124' - 3"

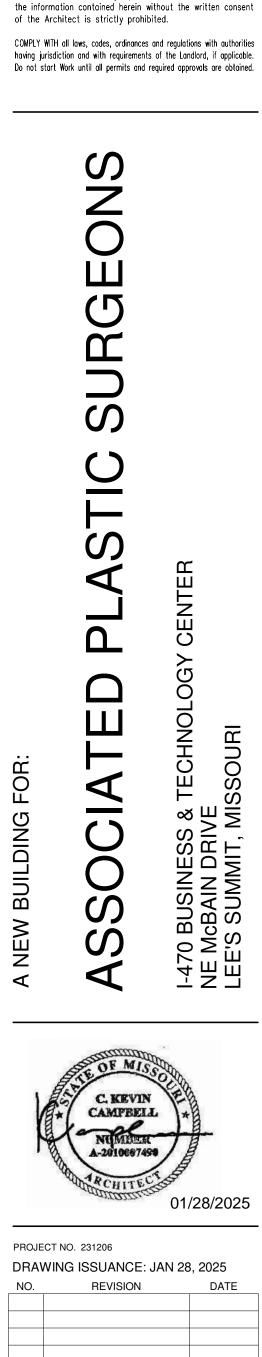








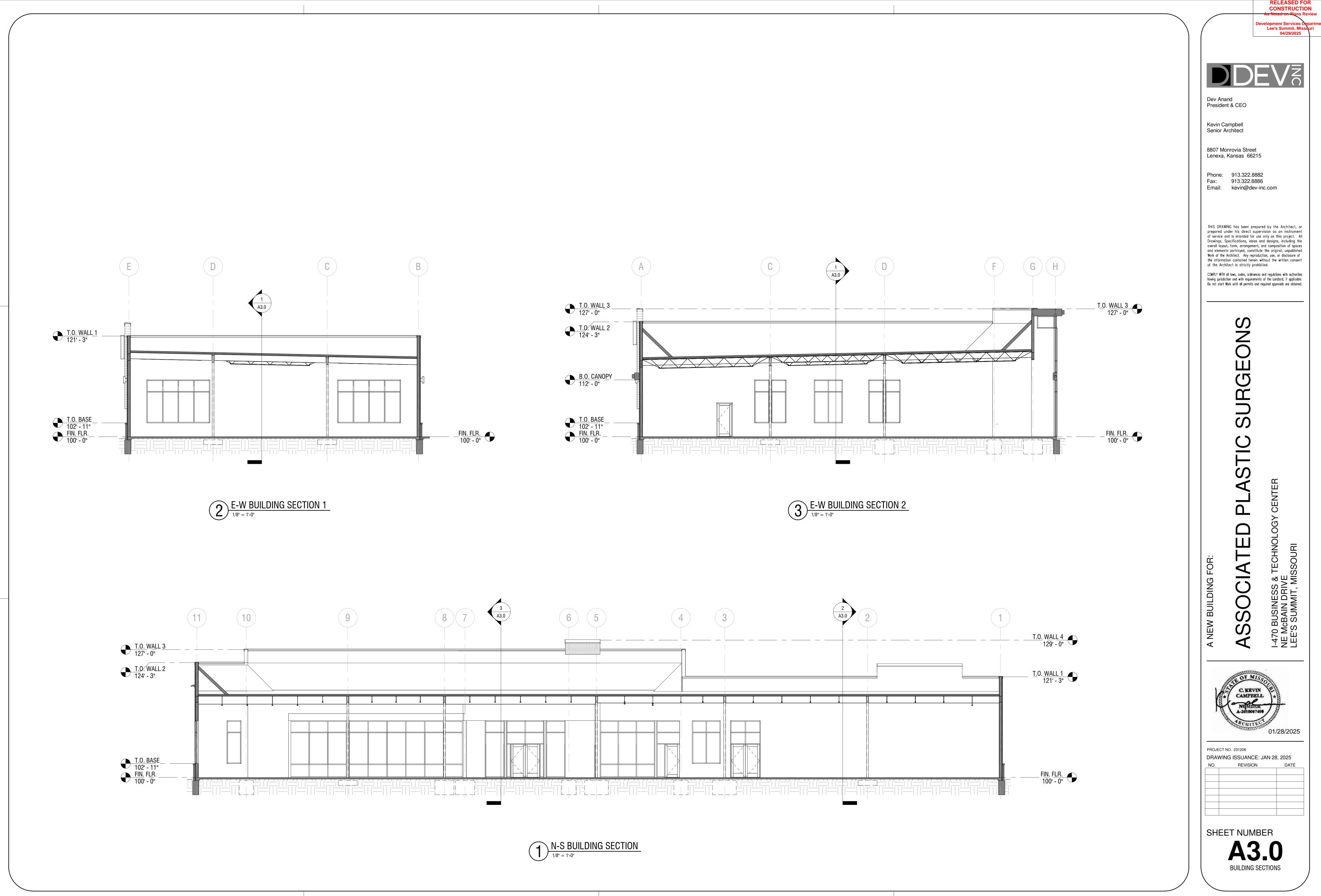




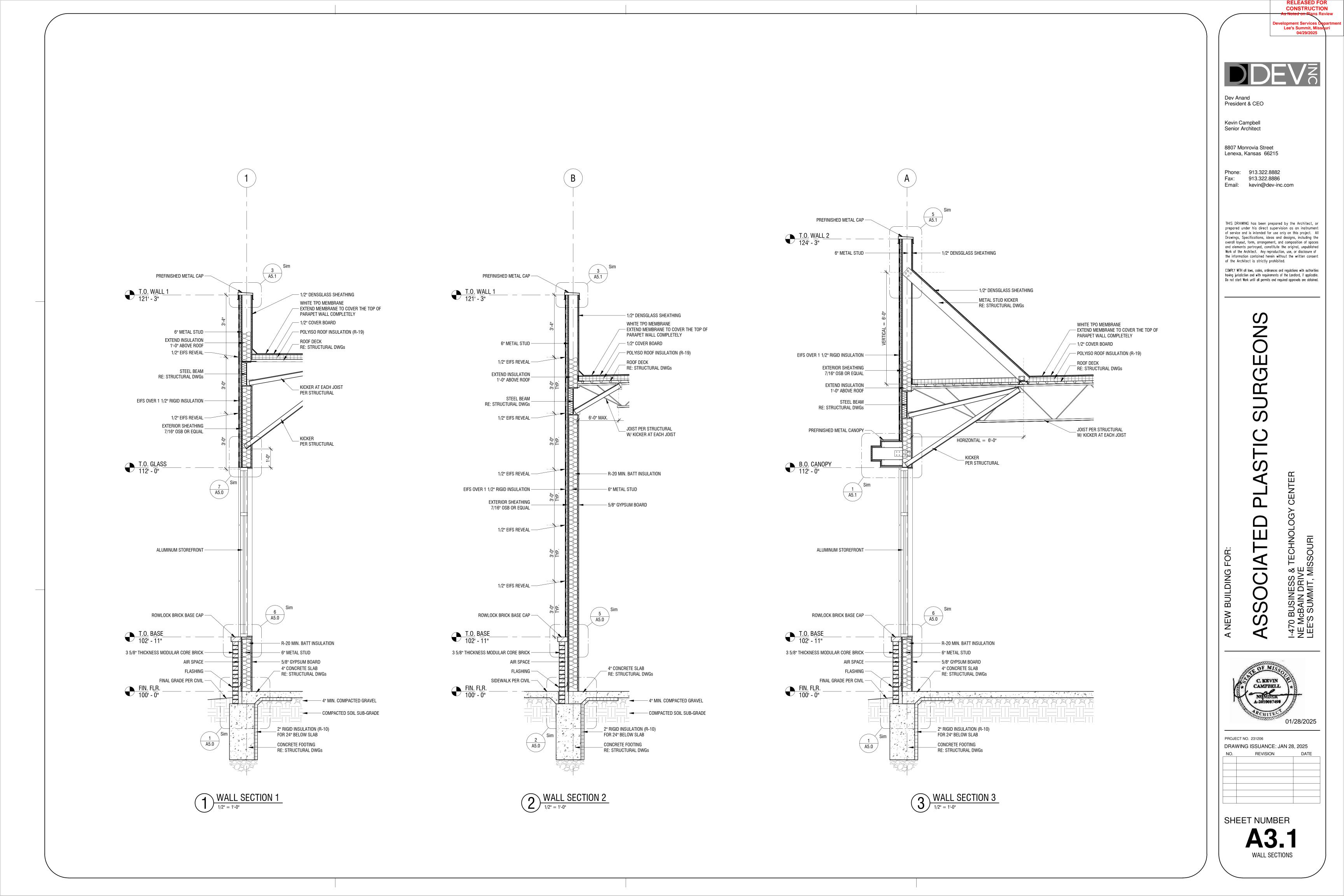


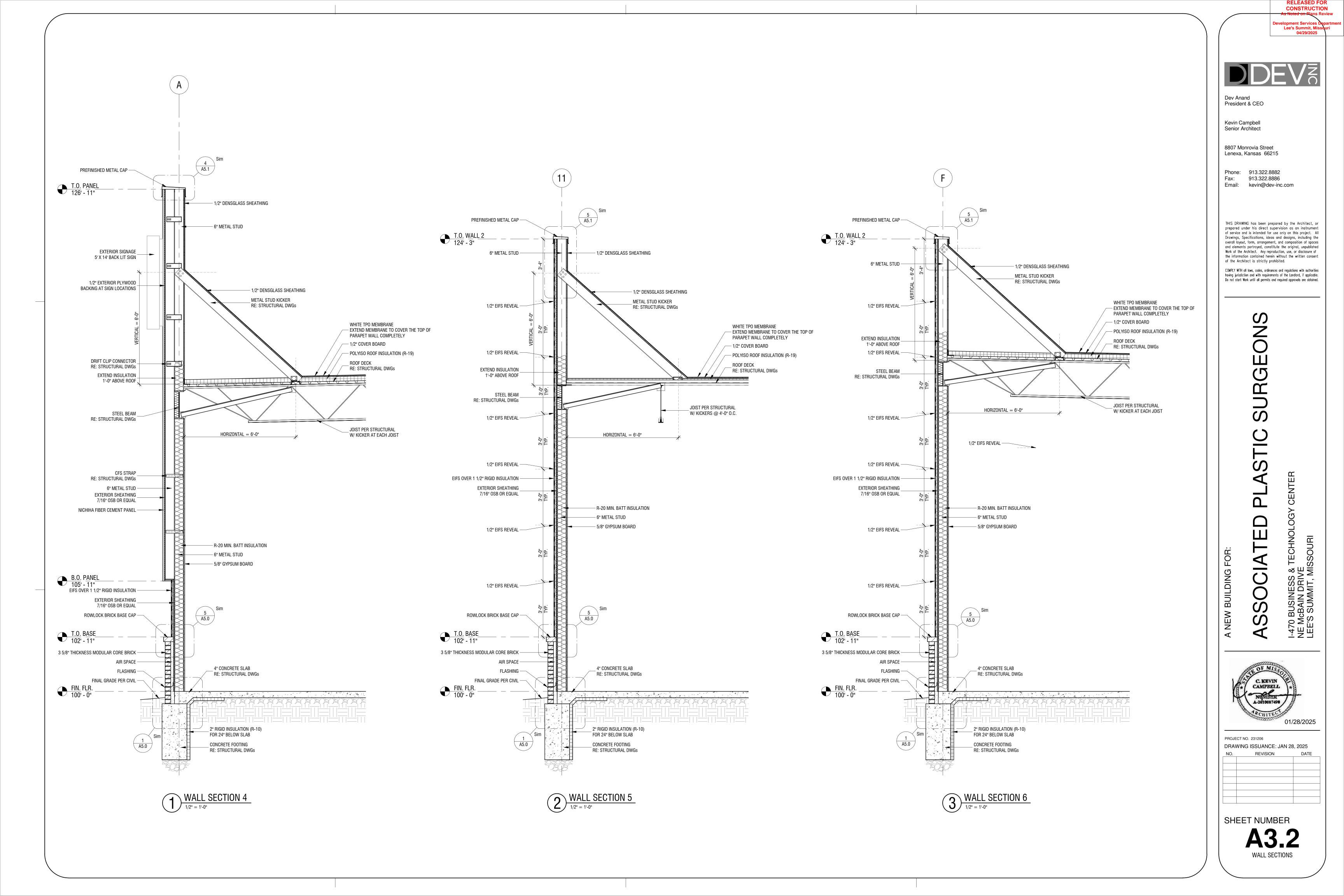


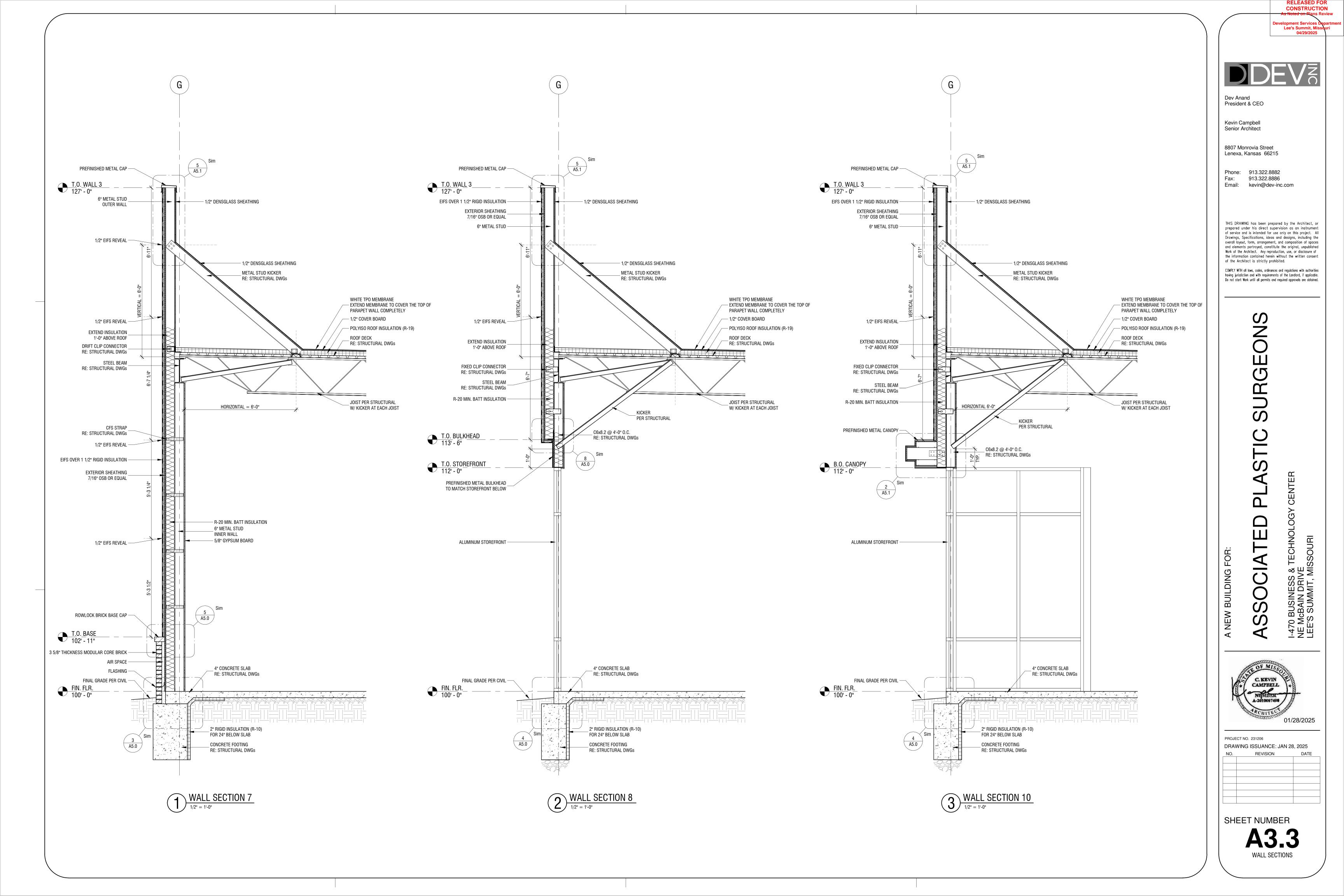
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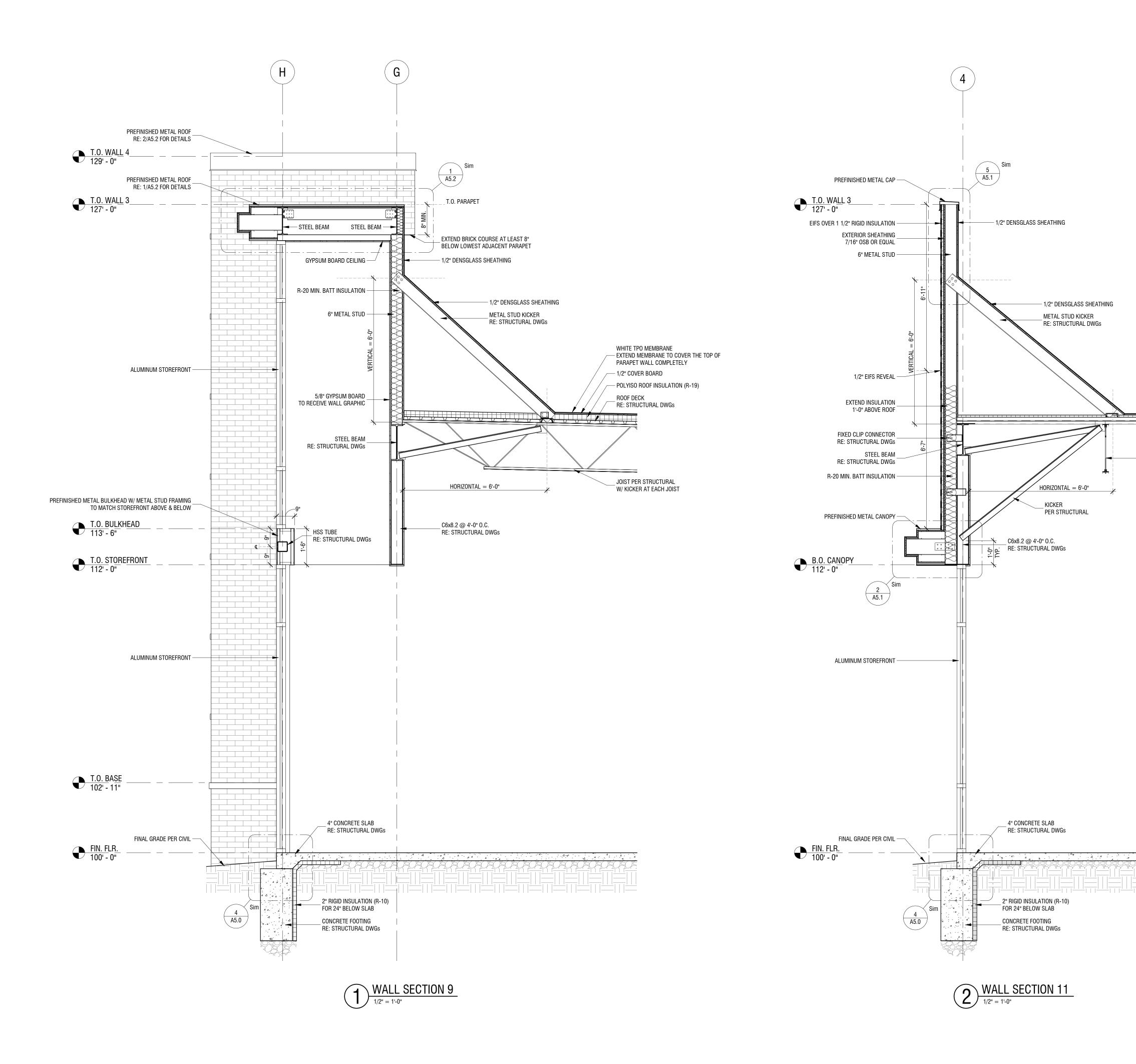












WHITE TPO MEMBRANE EXTEND MEMBRANE TO COVER THE TOP OF PARAPET WALL COMPLETELY 1/2" COVER BOARD POLYISO ROOF INSULATION (R-19) ROOF DECK

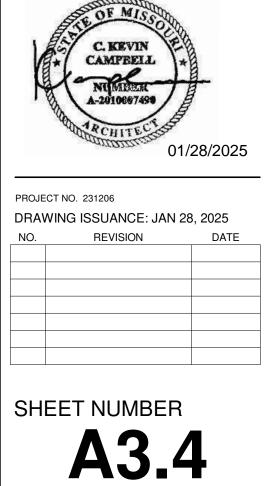
RE: STRUCTURAL DWGs

_ JOIST PER STRUCTURAL W/ KICKERS @ 4'-0" 0.C.

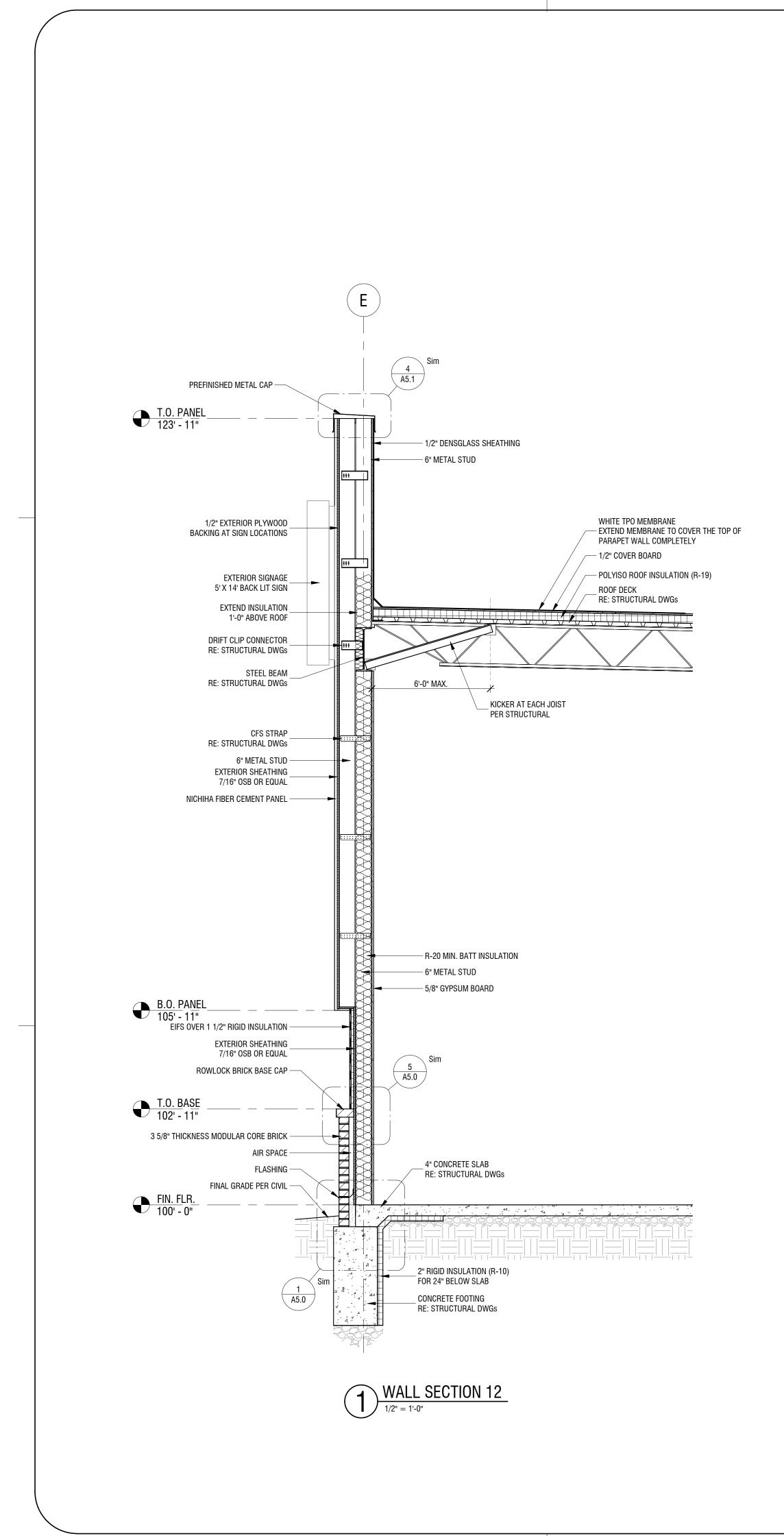
Z Dev Anand President & CEO Kevin Campbell Senior Architect 8807 Monrovia Street Lenexa, Kansas 66215 Phone: 913.322.8882 Fax: 913.322.8886 Email: kevin@dev-inc.com THIS DRAWING has been prepared by the Architect, or prepared under his direct supervision as an instrument of service and is intended for use only on this project. All Drawings, Specifications, ideas and designs, including the overall layout, form, arrangement, and composition of spaces and elements portrayed, constitute the original, unpublished Work of the Architect. Any reproduction, use, or disclosure of the information contained herein without the written consent of the Architect is strictly prohibited. COMPLY WITH all laws, codes, ordinances and regulations with authorities having jurisdiction and with requirements of the Landlord, if applicable. Do not start Work until all permits and required approvals are obtained. SURGEONS \underline{O} ST Ш Z Ш Ω \square Ш TECHNO I-470 BUSINESS & TECHNONE MCBAIN DRIVE NE MCBAIN DRIVE LEE'S SUMMIT, MISSOURI \triangleleft A NEW BUILDING ASSOC

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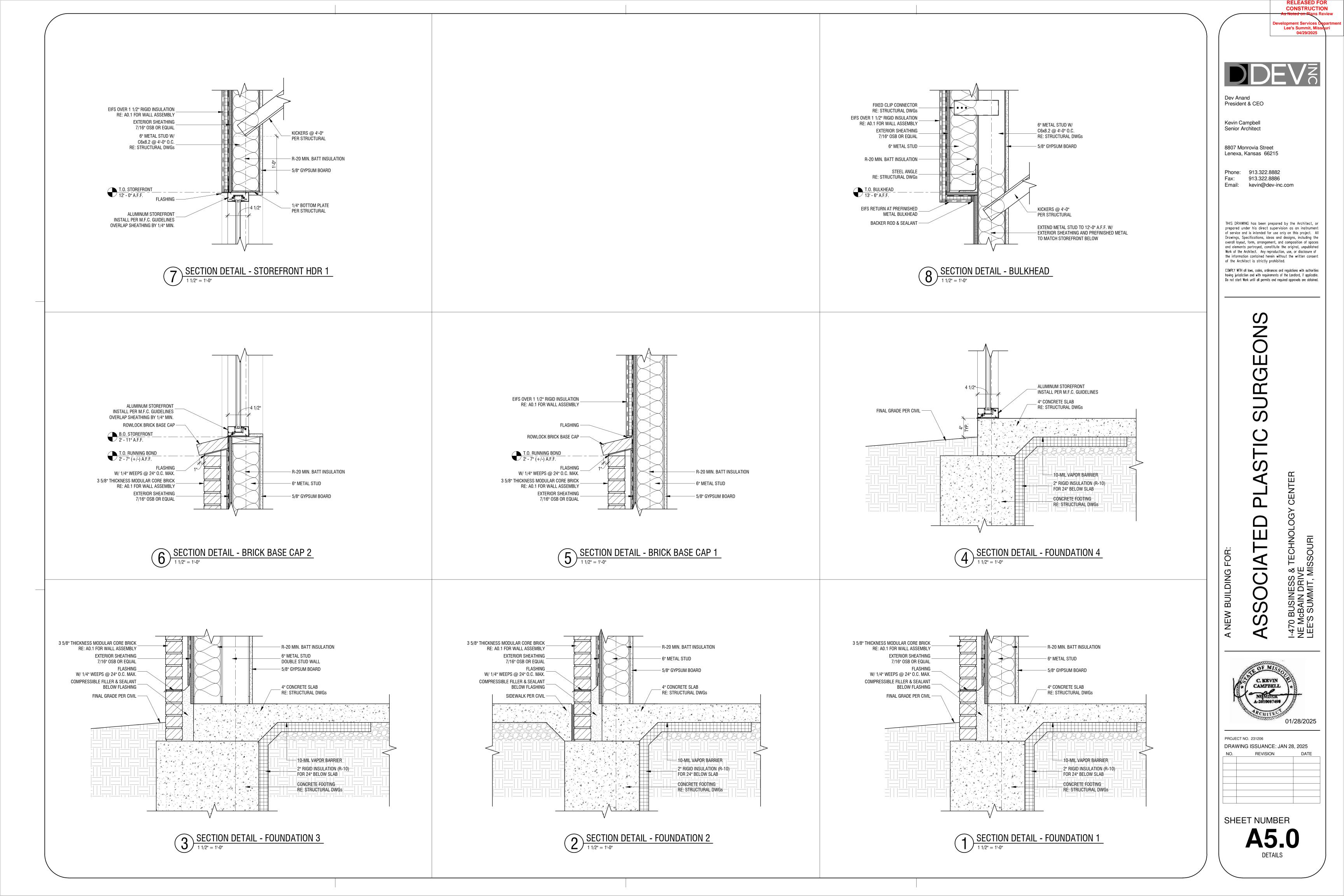
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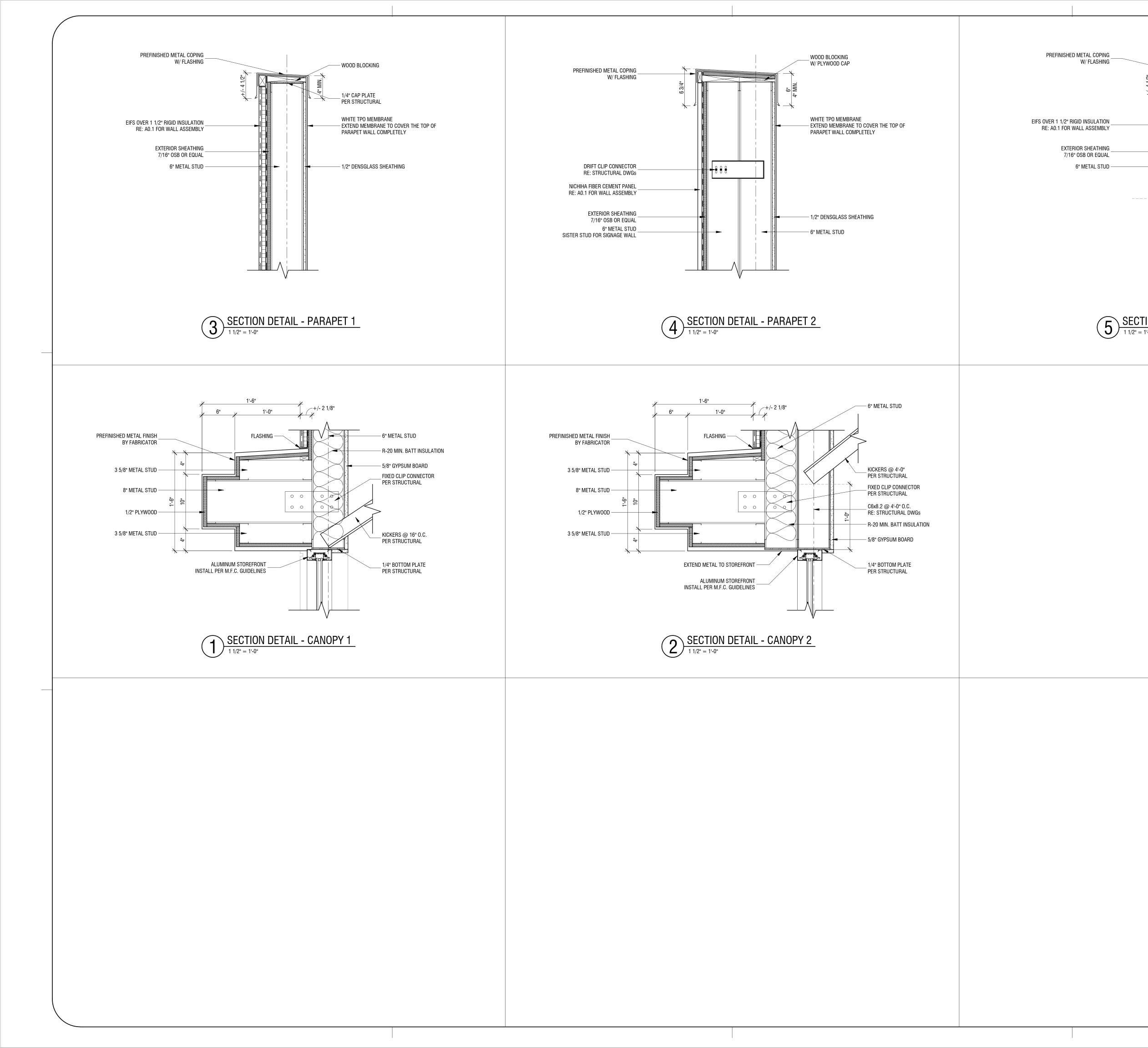


WALL SECTIONS



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Dev Ana	and ht & CEO		
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Lenexa, Phone:	Kansas 66 913.322.8		
Fax: Email:	913.322.8 kevin@de	8886 ev-inc.com	
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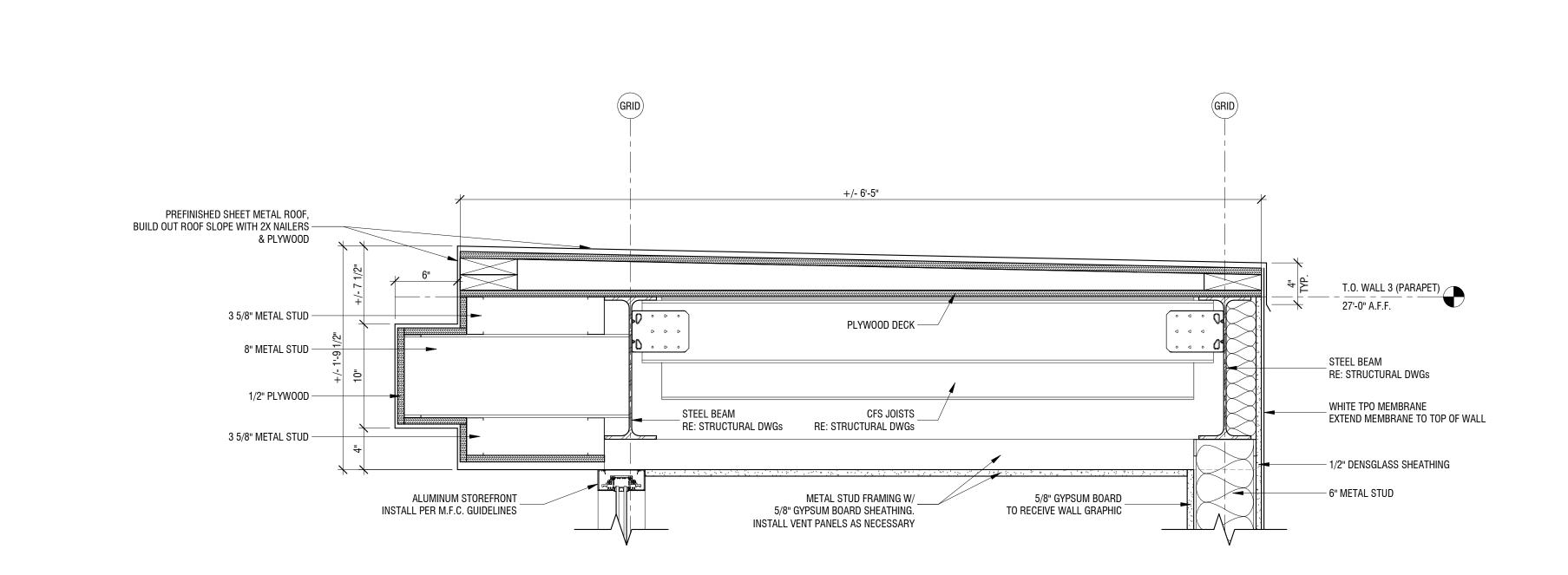




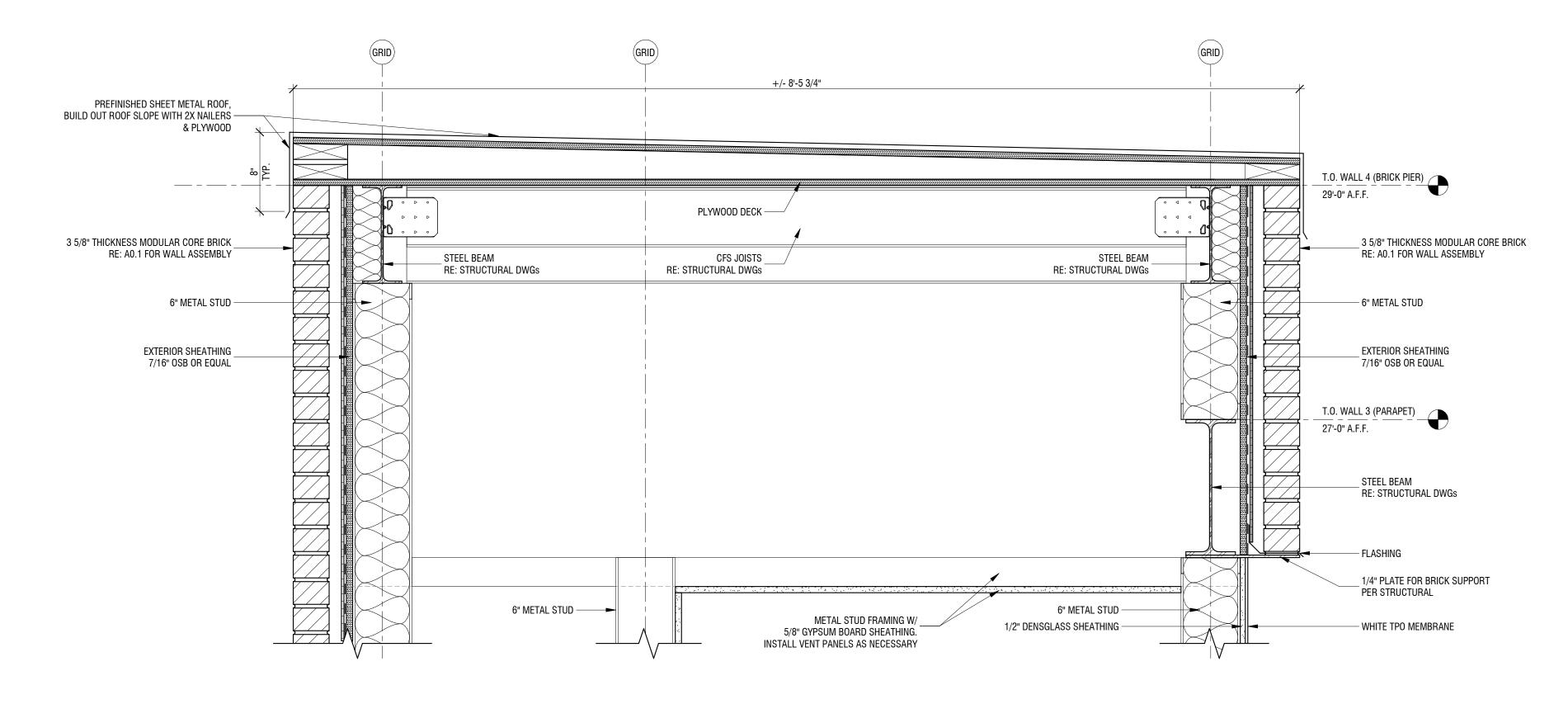
Lee's Summit, Missour 04/29/2025 - WOOD BLOCKING Z 1/4" CAP PLATE PER STRUCTURAL Dev Anand WHITE TPO MEMBRANE President & CEO EXTEND MEMBRANE TO COVER THE TOP OF PARAPET WALL COMPLETELY Kevin Campbell Senior Architect - 1/2" DENSGLASS SHEATHING 8807 Monrovia Street Lenexa, Kansas 66215 METAL STUD KICKER RE: STRUCTURAL DWGs Phone: 913.322.8882 Fax: 913.322.8886 Email: kevin@dev-inc.com THIS DRAWING has been prepared by the Architect, or prepared under his direct supervision as an instrument of service and is intended for use only on this project. All Drawings, Specifications, ideas and designs, including the overall layout, form, arrangement, and composition of spaces and elements portrayed, constitute the original, unpublished Work of the Architect. Any reproduction, use, or disclosure of the information contained herein without the written consent of the Architect is strictly prohibited. 5 SECTION DETAIL - PARAPET W/ KICKER COMPLY WITH all laws, codes, ordinances and regulations with authorities having jurisdiction and with requirements of the Landlord, if applicable. Do not start Work until all permits and required approvals are obtained. SURGEONS \underline{O} ST Ш 1 CEN Ω (۲ \square Ш TECHNO I-470 BUSINESS & TECHNC NE McBAIN DRIVE LEE'S SUMMIT, MISSOURI IAT Ο BUILDING ASSOC A NEW C. KEVI CAMPREI 01/28/2025 PROJECT NO. 231206 DRAWING ISSUANCE: JAN 28, 2025 REVISION DATE NO. SHEET NUMBER **A5.1** DETAILS

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ment Service

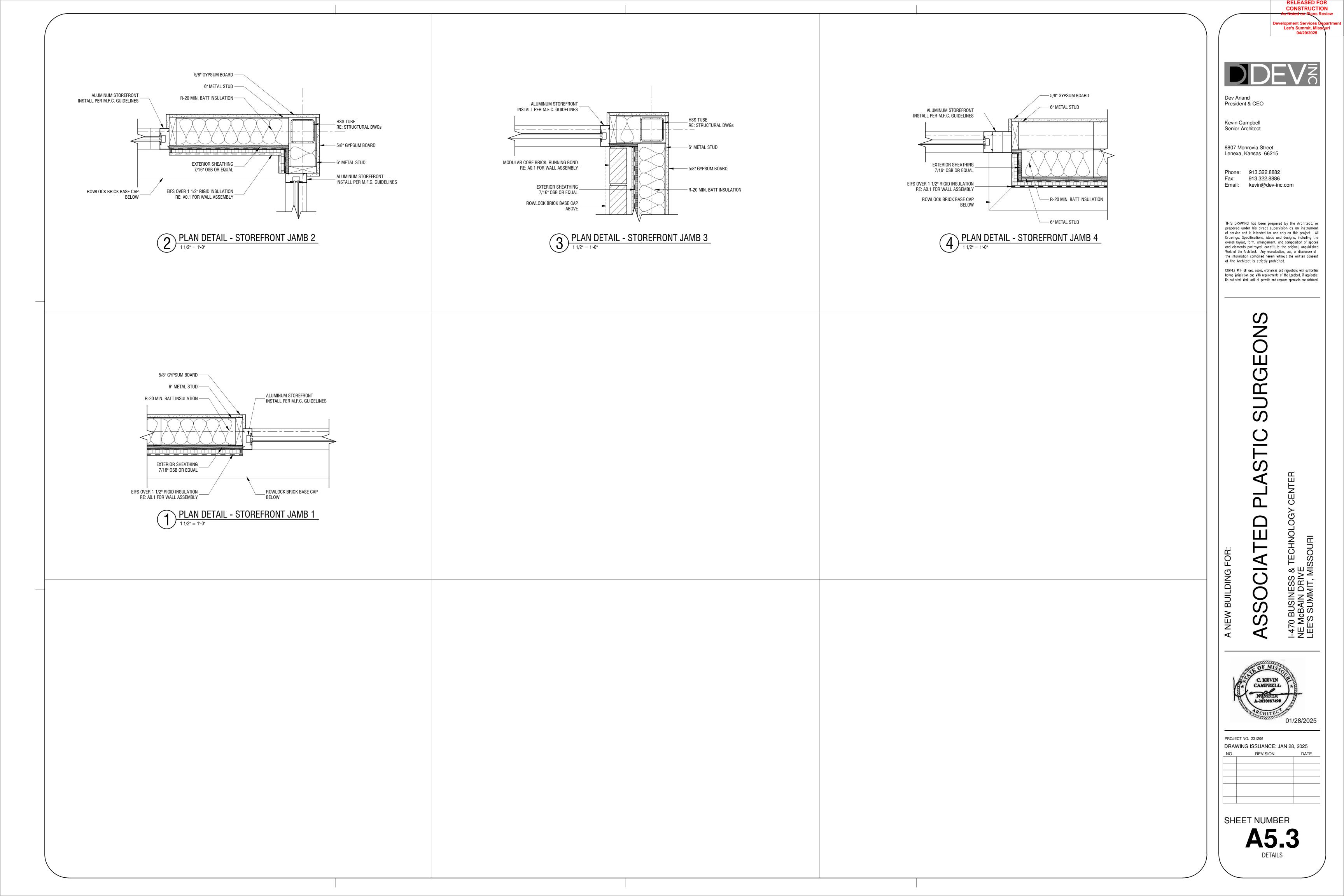


SECTION DETAIL - METAL ROOF 1 1 1/2" = 1'-0"



2 SECTION DETAIL - METAL ROOF 2

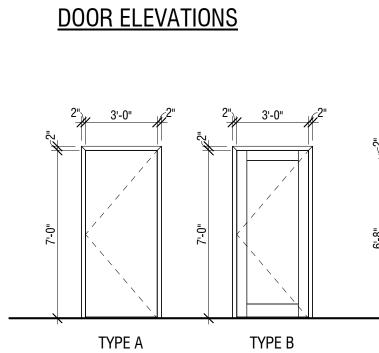
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						DOOR	SCHEDL	ILE						
DOOR NUMBER	ELEVATION	LOCATION	WIDTH	SIZE HEIGHT	THICKNESS	OPERATION	FIRE RATING	DOOR TYPE	DOOR Material	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	HARDWARE SET	REMARKS
FIN. FLR.				1										
D1a	E	CLINIC & MED SPA ENTRANCE	6' - 0"	7' - 0"	0' - 2"	SW	NON	AF-GP	ALUM/GL	ANODIZED	ALUM	ANODIZED	1	ENTRY/EGRESS DOOR
)1b	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
2	В	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
)3	A	ELECTRICAL ROOM	3' - 0"	7' - 0"	0' - 1 5/8"	SW	NON	F	НМ	PAINTED	HM	PAINTED	3	PROVIDE PANIC HARDWARE
)4	Α	FIRE ROOM	3' - 0"	7' - 0"	0' - 1 5/8"	SW	NON	F	НМ	PAINTED	HM	PAINTED	4	
5	Α	ASC CORRIDOR - EXIT	3' - 0"	7' - 0"	0' - 1 5/8"	SW	NON	F	HM	PAINTED	HM	PAINTED	3	EGRESS DOOR
6	Α	SERVICE DOOR	3' - 0"	7' - 0"	0' - 1 5/8"	SW	NON	F	HM	PAINTED	HM	PAINTED	4	
)7	Α	SERVICE DOOR	3' - 0"	7' - 0"	0' - 1 5/8"	SW	NON	F	НМ	PAINTED	HM	PAINTED	4	
8	Α	SERVICE DOOR	3' - 0"	7' - 0"	0' - 1 5/8"	SW	NON	F	HM	PAINTED	HM	PAINTED	4	
9	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

Grand total: 12

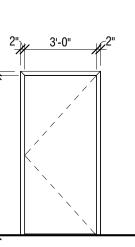




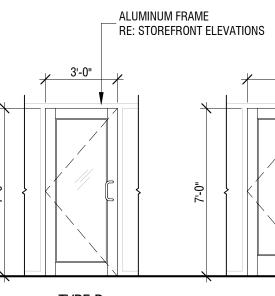
METAL FRAME - HOLLOW METAL DOOR

TYPE B METAL FRAME - GLASS

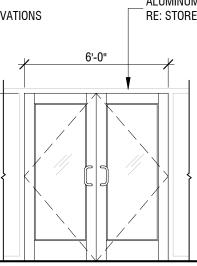
PANEL DOOR



TYPE C METAL FRAME - SOLID CORE WOOD DOOR



TYPE D STOREFRONT FRAME/ ALUMINUM FRAME - GLASS PANEL DOOR



TYPE E STOREFRONT FRAME/ ALUMINUM FRAME - GLASS PANEL DOOR

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)

ABBREVIATION LEGEND

DOOR OPERATION SW SWING OH OVERHEAD BF BIFOLD

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

ALUMINUM FRAME RE: STOREFRONT ELEVATIONS

HARDWARE SCHEDULE:

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

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

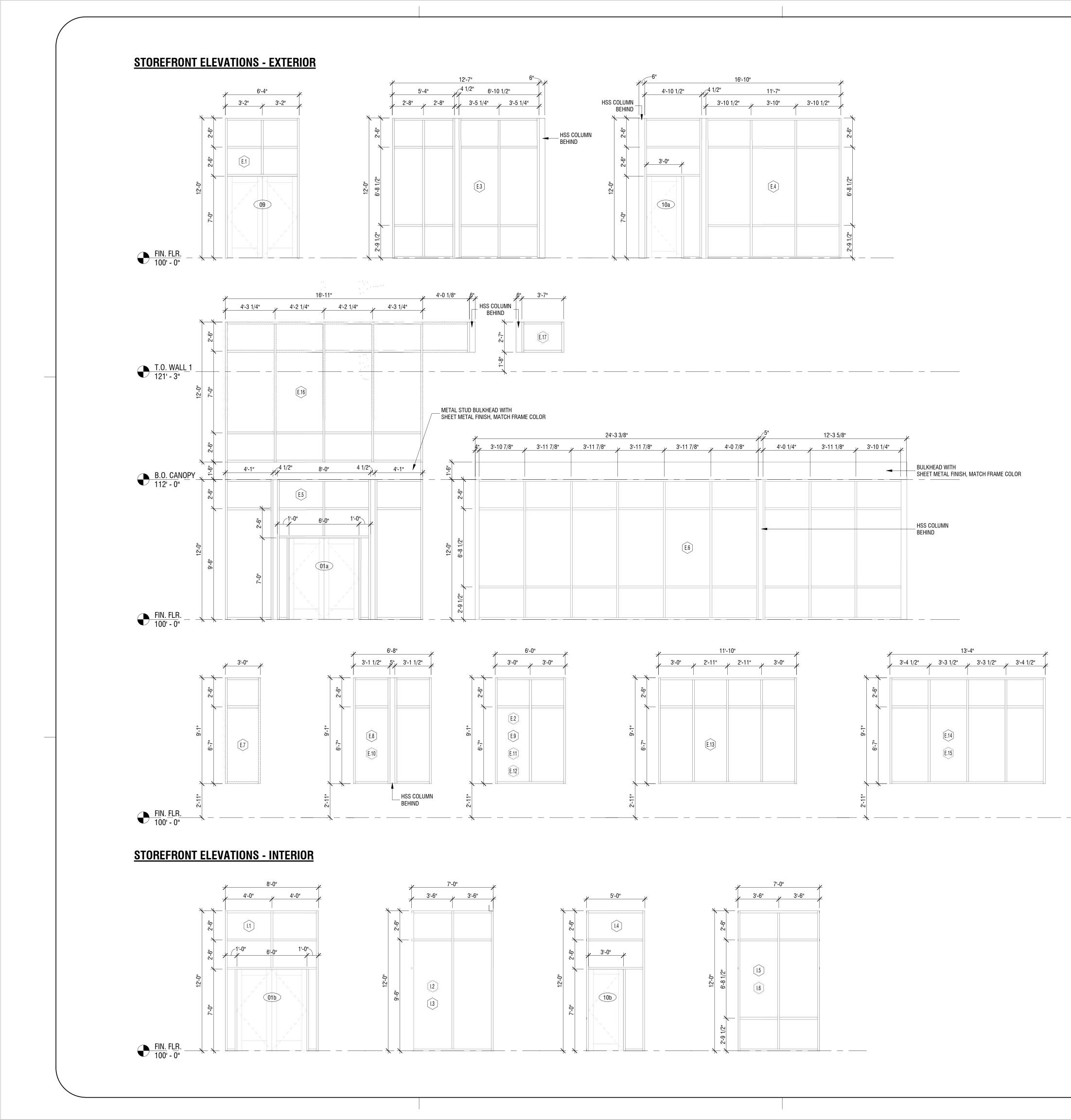
<u>SET 2</u> (3) BUTTS (1) CARD READER LOCK SET (1) FIRE EXIT/PANIC HARDWARE (1) STOP CLOSER THRESHOLD <u>SET 4</u> (3) BUTTS (1) STORAGE LOCK SET (1) STOP CLOSER THRESHOLD

FINISH FLOOR LEVEL

NOTES: 1. PROVIDE MISC. ASSOCIATED HARDWARE (SILENCERS, SWEEPS) AS REQUIRED.

REQUIRED.
 INSTALL EACH HARDWARE ITEM TO COMPLY WITH THE MANUFACTURER'S INSTRUCTIONS.
 PROVIDE DRIP FLASHING AT ALL EXTERIOR DOORS.
 SET THRESHOLDS FOR EXTERIOR DOORS IN FULL BED OF BUTYL RUBBER OR POLYISOBUTYLENE SEALANT.

	RELEASED FOR CONSTRUCTION As Noted on Plans Review
	Development Services Department Lee's Summit, Missouri 04/29/2025
	F/Z
Dev Anand	
President & CEO Kevin Campbell	
Senior Architect	
8807 Monrovia Stre Lenexa, Kansas 66	
Phone: 913.322 Fax: 913.322 Email: kevin@c	
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pment Service Lee's Summit, Missour 04/29/2025

STOREFRONT NOTES

1) RE: EXTERIOR FINISHING SCHEDULE FOR INFORMATION ON MATERIALS, SYSTEMS, AND COLORS 2) STOREFRONT TO BE INSTALLED PER MANUFACTURER'S 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 SUNGUARD-SUPERNEUTRAL 68 SOLAR HEAT GAIN COEFFICIENT 0.38

VISIBLE LIGHT TRANSMITTANCE 68% U-VALUE 0.29

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	

	STORE	FRONT	SCHEDU	ILE - INTE	ERIOR
MARK	WIDTH	HEIGHT	SILL HEIGHT	TYPE MARK	REMARK
FLR.					

8' - 4 1/2"	12' - 0"	0' - 0"	SF	
7' - 0"	12' - 0"	0' - 0"	SF	
7' - 0"	12' - 0"	0' - 0"	SF	
5' - 2 1/4"	12' - 0"	0' - 0"	SF	
7' - 0"	12' - 0"	0' - 0"	SF	

Grand total: 5



Dev Anand President & CEO

Kevin Campbell Senior Architect

8807 Monrovia Street Lenexa, Kansas 66215

Phone:	913.322.8882
Fax:	913.322.8886
Email:	kevin@dev-inc.com

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COMPLY WITH all laws, codes, ordinances and regulations with authorities having jurisdiction and with requirements of the Landlord, if applicable. Do not start Work until all permits and required approvals are obtained.

A NEW BUILDING FOR:	ASSOCIATED PLASTIC SURGEONS	I-470 BUSINESS & TECHNOLOGY CENTER NE McBAIN DRIVE LEE'S SUMMIT, MISSOURI
ķ	C. KEV CAMPEN A-201066	UN CONTRACTOR OF
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STOREFRONT SCHEDULE

Abbreviation	03_Abbreviation Schedule Abbreviation Name
+/-	PLUS OR MINUS
ADDNL ADJ	ADDITIONAL ADJACENT
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
AFF	ABOVE FINISHED FLOOR
ALT AR	ALTERNATE ANCHOR ROD
ARCH	ARCHITECT OR ARCHITECTURAL
B/ B/W	BOTTOM OF BETWEEN
BLDG	BUILDING
BLKG BM	BLOCKING BEAM
BOT	BOTTOM
BRG BWP	BEARING BRACED WALL PANEL
CFS	COLD FORMED STEEL
CHKD CIP	CHECKED CAST IN PLACE
CJ	CONTROL JOINT
CJP CL	COMPLETE JOINT PENETRATION CENTERLINE
CLR	CLEAR
COL CONC	COLUMN CONCRETE
CONN	CONNECTION
CONT CTR	CONTINUOUS
db	DIA OF REINF BAR, DIA OF BOLT
DBA DIA or Ø	DEFORMED BAR ANCHOR DIAMETER
DIAG	DIAGONAL
DIR DWL	DIRECTION
EA	EACH
EE	EXTENDED END
EJ ELEV	EXPANSION JOINT ELEVATION
EN	EDGE NAILING
ENGR EOD	ENGINEER EDGE OF DECK
EOS	EDGE OF SLAB
EQ EW	EQUAL EACH WAY
EXIST	EXISTING
EXT FDN	EXTERIOR FOUNDATION
FLG	FLANGE
FLR FS	FLOOR FAR SIDE
FTG FV	FOOTING FIELD VERIFY
FV GA	GAUGE
GALV GB	GALVANIZED GRADE BEAM
GB	GENERAL CONTRACTOR
HORIZ HSA	HORIZONTAL HEADED STUD ANCHOR
HSA HSS	HOLLOW STRUCTURAL SECTION
INT JST	INTERIOR JOIST
K LCE	KIPS (1000 LBS) COMPRESSION EMBEDMENT LENGTH
LCS	COMPRESSION LAP SPLICE LENGTH
LLH LLV	LONG LEG HORIZONTAL
LSH	LONG SLOTTED HOLE
LTE LTS	TENSION EMBEDMENT LENGTH TENSION LAP SLICE LENGTH
LW	LIGHTWEIGHT
MFCR MTL	MANUFACTURER METAL
NIC	NOT IN CONTRACT
NS NTS	NEAR SIDE NOT TO SCALE
OC	ON CENTER
OF OPP	OUTSIDE FACE OPPOSITE
OVS	OVERSIZED
P/C PAF	PRECAST POWDER ACTUATED FASTENER
PAF PAR	POWDER ACTUATED FASTENER PARALLEL
PEMB PEN	PRE-ENGINEERED METAL BUILDING PENETRATION
PERP	PERPENDICULAR
PL PLF	PLATE POUNDS PER LINEAR FOOT
PLF	POUNDS PER LINEAR FOOT PREFABRICATED
PRELIM	PRELIMINARY POUNDS PER SQUARE FOOT
PSF PSI	POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH
RC DE:	REINFORCED CONCRETE
RE: REINF	REFER TO REINFORCING
	REQUIRED
REQD	
REQD RF SC	RIGID FRAME SLIP CRITICAL
REQD RF SC SDS	RIGID FRAME SLIP CRITICAL SELF DRILLING SCREW
REQD RF SC	RIGID FRAME SLIP CRITICAL SELF DRILLING SCREW SIMILAR SHORT LEG VERTICAL
REQD RF SC SDS SIM SLV SOG	RIGID FRAME SLIP CRITICAL SELF DRILLING SCREW SIMILAR SHORT LEG VERTICAL SLAB ON GRADE
REQD RF SC SDS SIM SLV	RIGID FRAME SLIP CRITICAL SELF DRILLING SCREW SIMILAR SHORT LEG VERTICAL
REQD RF SC SDS SIM SLV SOG SQ SS STD	RIGID FRAME SLIP CRITICAL SELF DRILLING SCREW SIMILAR SHORT LEG VERTICAL SLAB ON GRADE SQUARE STAINLESS STEEL STANDARD
REQD RF SC SDS SIM SLV SOG SQ SS	RIGID FRAME SLIP CRITICAL SELF DRILLING SCREW SIMILAR SHORT LEG VERTICAL SLAB ON GRADE SQUARE STAINLESS STEEL
REQD RF SC SDS SIM SLV SOG SQ SQ SS STD STIR STIR STL SW	RIGID FRAME SLIP CRITICAL SELF DRILLING SCREW SIMILAR SHORT LEG VERTICAL SLAB ON GRADE SQUARE STAINLESS STEEL STRRUPS STEEL SHEAR WALL
REQD RF SC SDS SIM SLV SOG SQ SS STD STIR STIR STL	RIGID FRAME SLIP CRITICAL SELF DRILLING SCREW SIMILAR SHORT LEG VERTICAL SLAB ON GRADE SQUARE STAINLESS STEEL STIRRUPS STEEL
REQD RF SC SDS SIM SLV SOG SQ SQ SS STD STIR STIR STL SW SYM T&B T/	RIGID FRAMESLIP CRITICALSELF DRILLING SCREWSIMILARSHORT LEG VERTICALSLAB ON GRADESQUARESTAINLESS STEELSTANDARDSTIRRUPSSTEELSHEAR WALLSYMMETRICTOP AND BOTTOMTOP OF
REQD RF SC SDS SIM SLV SOG SQ SS STD STIR STIR STL SW SYM T&B	RIGID FRAME SLIP CRITICAL SELF DRILLING SCREW SIMILAR SHORT LEG VERTICAL SLAB ON GRADE SQUARE STAINLESS STEEL STRRUPS STEEL SHEAR WALL SYMMETRIC TOP AND BOTTOM
REQD RF SC SDS SIM SLV SOG SQ SQ SS STD STIR STL STL SW SYM T&B T/ TRANS T/P UNO	RIGID FRAME SLIP CRITICAL SELF DRILLING SCREW SIMILAR SHORT LEG VERTICAL SLAB ON GRADE SQUARE STAINLESS STEEL STANDARD STEEL SHEAR WALL SYMMETRIC TOP AND BOTTOM TOP OF TRANSVERSE TYPICAL UNLESS NOTED OTHERWISE
REQD RF SC SDS SIM SLV SOG SQ SS STD STIR STIR STIR STIR STIR STIR T&B T/ T&B T/ TRANS TYP	RIGID FRAMESLIP CRITICALSELF DRILLING SCREWSIMILARSHORT LEG VERTICALSLAB ON GRADESQUARESTAINLESS STEELSTANDARDSTIRRUPSSTEELSHEAR WALLSYMMETRICTOP AND BOTTOMTOP OFTRANSVERSETYPICAL
REQD RF SC SDS SIM SLV SOG SQ SS STD STIR STIR STIR STIR STIR STIR T/ TRANS T/ TRANS T/P UNO VERT W/ W/O	RIGID FRAMESLIP CRITICALSELF DRILLING SCREWSIMILARSHORT LEG VERTICALSLAB ON GRADESQUARESTAINLESS STEELSTANDARDSTIRRUPSSTEELSHEAR WALLSYMMETRICTOP AND BOTTOMTOP OFTRANSVERSETYPICALUNLESS NOTED OTHERWISEVERTICALWITHWITHOUT
REQD RF SC SDS SIM SLV SOG SQ SS STD STIR STL SW SYM T&B T/ TRANS T/P UNO VERT W/	RIGID FRAMESLIP CRITICALSELF DRILLING SCREWSIMILARSHORT LEG VERTICALSLAB ON GRADESQUARESTAINLESS STEELSTANDARDSTIRRUPSSTEELSHEAR WALLSYMMETRICTOP OFTRANSVERSETYPICALUNLESS NOTED OTHERWISEWITH

STRUCTURAL DESIGN CRITERIA (2018 IBC AND ASCE 7-16): 1. BUILDING OCCUPANCY RISK CATEGORY II. 2. LIVE LOADS [UNIFORM (PSF) / POINT LOADS (KIPS)]: ..20 PSF / 300# -- ROOF:. -- GROUND LEVEL SLAB ..100 PSF / 2.0 K ROOF SNOW LOAD: . 20 PSF -- GROUND SNOW LOAD (Pg) -- FLAT ROOF SNOW LOAD (Pf): .. 22 PSF + DRIFT PER PLAN -- 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 (Ct):. .1.1 (just above freezing) - SLOPE FACTOR (CS)... ..1.0 (for $\frac{1}{4}$ per foot roofs) 4. WIND DESIGN DATA: -- BASIC WIND SPEED (3 SEC GUST):... ...117 MPH – ASD WIND SPEED, V(ASD). ..88 MPH -- WIND EXPOSURE: -- 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 -- MAPPED SPECTRAL RESP ACCEL (Ss / S1):.....0.1 / 0.068 -- SITE CLASS ... -- SPECTRAL RESPONSE COEFF (Sds / Sd1):.....0.107 / 0.109 -- SEISMIC DESIGN CATEGORY ... -- SEISMIC FORCE RESISTING SYSTEM:......R=3, STEEL -- DESIGN BASE SHEAR:. ..13 K (ELF AND ASD) -- SEISMIC RESPONSE COEFF (Cs):... ...0.045 -- ANALYSIS PROCEDURE:. FI F 6. RAIN LOAD DATA: – 15-MIN RAIN INTENSITY8.31 IN/HR – 60-MIN RAIN INTENSITY 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 CONTRACTOR'S 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 SHALL 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. EOR 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 FNGINFFR

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. 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

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 INVIDIVIDUAL COLUMN FOOTINGS) PER THE GEOTECHNICAL REPORT. DEEPEN 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.

MINIMUM OF 8" OR ONE FULL MESH, WHICHEVER IS GREATER.

4. MAINTAIN MINIMUM CONCRETE PROTECTION OR COVER FOR REINFORCING AS

- INDICATED, UNLESS NOTED OTHERWISE: 3" CLEAR WHERE CONCRETE IS CAST AGAINST AND PERMANENTLY IN
- CONTACT WITH GROUND. 2" CLEAR WHERE CONCRETE IS EXPOSED TO WEATHER OR IN CONTACT
- C.
- IN CONTACT WITH GROUND.
- 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.

C. SOILS: SECTION 1705.6. FOUNDATION BEARING, EXCAVATION, FILL

OBTAIN A COPY OF THIS REPORT AND FOLLOW ALL RECOMMENDATIONS WITHIN.

2. ALL WELDED WIRE REINFORCEMENT (WWR) SHALL MEET ASTM A1064: LAP A

3. REINFORCING BAR QUANTITIES SHOWN ARE FOR ESTIMATING PURPOSES ONLY.

WITH GROUND BUT CAST AGAINST FORMS FOR BARS LARGER THAN #5. 1 1/2" CLEAR WHERE CONCRETE IS EXPOSED TO WEATHER OR IN CONTACT WITH GROUND BUT CAST AGAINST FORMS FOR BARS #5 OR SMALLER 3/4" CLEAR FOR SLABS, JOISTS AND WALLS NOT EXPOSED TO WEATHER OR

1 1/2" CLEAR FOR BEAMS AND COLUMNS NOT EXPOSED TO WEATHER OR IN

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-W2.1xW2.1 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 KEYED 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' -6" MIN) EXCEPT AS NOTED AND PROVIDE CORNER BARS OF SAME SIZE AND SPACING.

14. MINIMUM CONCRETE WALL REINFORCING (WALL 10" OR GREATER) SHALL BE #5 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 AISC 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 ALKALI-SILICA REACTION OR ALKALI-AGGREGATE REACTIONS WHEN EXPOSED TO SOILS AND/OR AN EXTERIOR FNVIRONMENT.

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 "CODE OF STANDARD PRACTICES FOR STEEL BUILDINGS AND BRIDGES", EXCLUDING SECTION 4.4.1.B. STRUCTURAL STEEL THROUGHOUT THE PROJECT HAS BEEN DESIGNED USING ASD DESIGN METHODOLOGY.

3. THE STRUCTURAL STEEL FABRICATOR SHALL BE AN AISC QUALITY CERTIFIED COMPANY FOR THE CATEGORY OF WORK IN THIS PROJECT OR PROVIDE A QUALITY ASSURANCE PLAN AND SPECIAL INSPECTIONS AS DEFINED IN THE CODE.

4. USE STANDARD AISC FRAMING CONNECTIONS WITH A325-N BOLTS, F436 WASHERS, AND A563 HEAVY-HEX NUTS AS REQUIRED, UNLESS NOTED OTHERWISE.

5. BOLTS IN MOMENT AND BRACED FRAME CONNECTIONS SHALL BE PRE-TENSIONED. ALL A490 BOLTS SHALL BE PRE-TENSIONED. OTHER BOLTED CONNECTIONS USING A325 BOLTS MAY BE SNUG-TIGHTENED, UNLESS NOTED OTHERWISE.

6. STEEL BEAMS SHALL BE FABRICATED WITH MILL CAMBER UP.

7. WELDING SHALL CONFORM TO THE CURRENT AND APPLICABLE AWS STANDARDS AND BE COMPLETED BY AN AWS CERTIFIED WELDER. ALL WELDS SHALL UTILIZE E70xx ELECTRODES. SHOP DRAWINGS SHALL SHOW FIELD WELDS, AS APPROPRIATE.

> a. AWS D1.1 - STRUCTURAL WELDING CODE - STEEL b. AWS D1.3 - STRUCTURAL WELDING CODE - SHEET STEEL

8. WELD SIZES SHALL BE INCREASED TO MEET THE REQUIRED EFFECTIVE THROAT WIDTH IF GAPS EXIST AT THE FAYING SURFACE.

9. NO COLUMN OR BEAM SPLICES, UNLESS CLEARLY INDICATED ON THE STRUCTURAL DRAWINGS. WILL BE ALLOWED WITHOUT WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.

10. SEE ARCHITECTURAL PLANS FOR FIREPROOFING & FINISHING REQUIREMENTS, AND COORDINATE STEEL PRIMING & COATINGS ACCORDINGLY.

11. GROUT WHERE INDICATED ON PLANS AT BASE PLATES SHALL BE NON-METALLIC NON-SHRINK WITH A MINIMUM COMPRESSIVE STRENGTH OF 6000 PSI AT 28 DAYS CONFORMING TO ASTM C1107

12. ALL POST-INSTALLED ANCHORS WHERE NOTED SHALL BE MANUFACTURED BY SIMPSON STRONG-TIE OR HILTI, INC. AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS. SUBSTITUTIONS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL WITH APPROPRIATE IC-ES EVALUATION REPORTS.

13. ALL STEEL AND ASSOCIATED FASTENERS NOT PROTECTED FROM WEATHER OR WHOLLY WITHIN A CONDITIONED SPACE (INCLUDING ALL MASONRY LINTELS) SHALL BE HOT DIPPED GALVANIZED PER ASTM A123.

14. CONNECTION REQUIREMENTS: REACTIONS SHOWN ON THE DRAWINGS ARE ASD UNFACTORED ALLOWABLE STRESS DESIGN METHOD, THAT SHALL NOT BE REDUCED FURTHER THAN SHOWN. CONTRACTOR MAY OPT TO USE THE TYPICAL DETAILS SHOWN WHERE THE CAPACITIES ARE GREATER THAN THE REACTIONS INDICATED ON THE DRAWINGS

CONNEC	TION DESIGN IS REQUIRED ELSEWHERE AS FOLLOWS:
Α.	AT BRACED FRAMES
В.	AT AXIALLY LOADED BEAM CONNECTIONS
C.	AT MOMENT CONNECTIONS
D.	AT ALL CONDITIONS NOT COVERED BY THE TYPICAL STANDARD SHEA
	CONNECTION

- JUNNECTIU AT ALTERNATIVE CONNECTION TYPES DESIRED BY FABRICATOR OR
- ERECTOR IF FIRST REQUESTED AND APPROVED BY THE EOR. STAIR FRAMING AND RAILINGS
- PROHIBITED CONNECTIONS AND NOTES: SINGLE-ANGLE SHEAR CONNECTIONS ARE PROHIBITED
- DOUBLE-ANGLE SHEAR CONNECTIONS ARE NOT PERMISSIBLE AT CONNECTIONS WITH AXIAL LOADS OR AT BRACED FRAMES

ADDITIONAL REQUIREMENTS:

- USE STANDARD AISC FRAMING CONNECTIONS WITH A325-N BOLTS, F436 Α. WASHERS, AND A563 HEAVY-HEX NUTS AS REQUIRED, UNLESS NOTED OTHERWISE
- ALL CONNECTIONS REQUIRE A MINIMUM OF 2 BOLTS AND A MINIMUM CAPACITY OF 10 KIPS.
- FOR STEEL BEAMS 10-FT OR LESS IN LENGTH, IF REACTION ON PLAN IS NOT SHOWN ASSUME 10 KIPS (ASD).
- FOR BEAMS GREATER THAN 10-FT IN LENGTH, IF REACTION ON PLAN IS NOT SHOWN THE REACTION SHALL BE ASSUMED TO BE ONE HALF THE TOTAL ALLOWABLE UNIFORM CODE FOR THE BEAM SPAN FROM AISC STEEL CONSTRUCTION MANUAL UNLESS THE VALUE IS OBTAINED FROM THE ENGINEER OF RECORD.

SUBMIT SIGNED/SEALED SHOP DRAWINGS AND CALCULATIONS FOR THE DESIGN OF ALL STEEL CONNECTIONS, AND A LETTER SEALED BY AN ENGINEER REGISTERED IN THE STATE OF THE PROJECT STATING THAT THEY HAVE REVIEWED THE STEEL SHOP DRAWINGS FOR CONFORMANCE TO THE DESIGN REQUIREMENTS.

15. CONTRACTOR IS RESPONSIBLE FOR PERFORMING ALL FIELD VERIFICATION PRIOR TO PRODUCTION OF SHOP DRAWINGS OR FABRICATION OF STRUCTURAL ELEMENTS. ARCHITECT / ENGINEER WILL RETURN "REJECTED" ANY SUBMITTAL REQUESTING FIELD VERIFICATION OF EXISTING CONDITIONS OR DIMENSIONS.

OPEN WEB STEEL BAR JOISTS:

1. OPEN-WEB STEEL JOISTS SHALL BE ENGINEERED AND MANUFACTURED BY AN SJI-CERTIFIED COMPANY TO CONFORM TO THE CURRENT SJI SPECIFICATIONS AND SJI REQUIREMENTS.

2. SUBMIT SHOP DRAWINGS FOR JOIST. DESIGN, DETAIL AND INSTALL JOIST-BRIDGING IN ACCORDANCE WITH SJI REQUIREMENTS, PROVIDING X-BRIDGING AT LOCATIONS WHERE HORIZONTAL BRIDGING IS DISCONTINUOUS AND INTERRUPTED. INSTALL ADDITIONAL ROW OF BOTTOM CHORD BRIDGING AT EACH END OF JOISTS AT THE FIRST BOTTOM CHORD PANEL POINTS AS REQUIRED FOR NET WIND UPLIFT.

3. BOLT OR WELD ALL JOISTS TO BEARINGS PER SJI GUIDELINES, INCLUDING BOTTOM CHORD EXTENSIONS AND CONNECTIONS AT COLUMN LINES PER SJI AND PER OSHA REQUIREMENTS. MIN JOIST SEAT WELDS SHALL BE AS FOLLOWS: K-SERIES = (2) 1/8" x 2-1/2" LONG; LH 02-06 = (2) 3/16" x 3" LONG; LH/DLH 07-17 = (2) 1/4" x 3" LONG.

4. REINFORCE WEBS OF JOISTS WITH ADDITIONAL ANGLES FIELD-WELDED PER THE TYPICAL DETAILS AT ALL LOCATIONS WHERE POINT LOADS OCCUR BETWEEN PANEL POINTS, INCLUDING AT EDGES AND CORNERS OF CURBS & FRAMES SUPPORTING ROOF TOP EQUIPMENT.

5. PROVIDE EXTENDED ENDS FOR SUPPORT OF ROOF DECK EDGE ANGLES THROUGHOUT THE PROJECT AS MAY BE REQUIRED. PROVIDE SPECIAL SLOPED BEARING SEATS WHERE NEEDED BASED ON ROOF SLOPES SHOWN IN ACCORDANCE WITH SJI.

6. WHERE SPECIAL "SP" JOISTS ARE INDICATED, DESIGN JOISTS FOR THE FOLLOWING, BUT IN NO CASE SHALL CHORD SIZES BE LESS THAN INDICATED ON THE FRAMING PLANS:

A. UNIFORM DEAD LOAD OF 15 PSF IN ADDITION TO SELF WT. B. UNIFORM ROOF LIVE, SNOW, AND RAIN ON SNOW LOADS INDICATED IN STRUCTURAL GENERAL NOTES. C. SNOW DRIFTS AROUND PARAPETS AS INDICATED ON DRIFT LOADING PLAN.

D. WIND NET UPLIFT PER WIND UPLIFT PLAN (ASD). E. SPECIAL HANGING POINT LOADS AND ROOF EQUIPMENT LOADS AS DENOTED ON THE FRAMING PLAN.

METAL DECK:

REQUIRE A STEEL FRAME

SEE TYPICAL DETAIL FOR ADDITIONAL INFORMATION.

1. SUBMIT SHOP DRAWINGS FOR ALL METAL DECKING. A. ROOF DECK: 1.5B 22 GA (FY = 50 KSI MIN), PAINTED, MIN. FASTENING PATTERN: 36/4 WITH 3 SIDELAPS PER SPAN (UNO)

2. STEEL DECK MANUFACTURER SHALL BE A MEMBER OF THE STEEL DECK INSTITUTE (S.D.I.). ALL METAL DECK TO BE ERECTED PER MANUFACTURER REQUIREMENTS AND SPECIFICATIONS

3. DECK SHALL BE WELDED AT SUPPORTS WITH 5/8" DIA PUDDLE WELDS MIN. AND SIDELAP CONNECTIONS SHALL BE #10 TEK SCREWS MIN (UNO).

4. ALL METAL DECK HAS BEEN DESIGNED TO BE CONTINUOUS OVER 2 SPANS MINIMUM AND SHALL BEAR 2" MINIMUM ON STEEL SUPPORTS. FOR ONE OR TWO SPAN CONDITIONS CONTRACTOR SHALL PROVIDE SHORING AS REQUIRED OR FURNISH THICKER GAUGE DECK TO SUPPORT ALL APPLICABLE LOADS. CONTRACTOR TO SUBMIT ALTERNATES FOR APPROVAL.

5. PROVIDE REINFORCING CHANNELS, STANDARD CLOSURES, CANT STRIPS, SUMP PANS, AND OTHER ACCESSORIES AS REQUIRED FOR A PROPERLY FINISHED JOB, EVEN IF NOT SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS. PROVIDE BEARING ANGLES WELDED TO COLUMNS AS REQUIRED TO SUPPORT METAL DECK.

HOLES LARGER THAN 6" IN DIAMETER OR MORE THAN ONE HOLE PER DECK SHEET REQUIRES REINFORCING PER SDI. HOLES LARGER THAN 12" (ROUND OR SQUARE)

7. OPENINGS IN ROOF DECK TO BE FRAMED WITH L6x4x5/16 (LLV) ANGLE. EXTEND ANGLES TO STRUCTURAL SUPPORTS, BLOCK VERTICAL LEGS AND FIELD WELD.

6. ONE OPENING PER DECK SHEET, 6" OR LESS IN DIAMETER, IS PERMISSIBLE.

COLD FORMED STEEL FRAMING NOTES:

1. SUBMIT SHOP DRAWINGS AND CALCULATIONS PER THE SUBMITTAL SECTION REQUIREMENTS. SHOP DRAWINGS SHALL INCLUDE PLAN AND SECTION DETAILS TO SHOW LAYOUT, SPACINGS, SIZES, THICKNESSES, AND TYPES OF COLD-FORMED STEEL FRAMING. IN ADDITION, SHOP DRAWINGS SHALL INCLUDE ALL FASTENING, ANCHOR DETAILS, SUPPLEMENTAL FRAMING, STRAPPING, BRACING, BRIDGING, CONNECTION DETAILS. AND ATTACHMENTS TO ADJOINING WORK

CFS DESIGN CRITERIA:

-- TOP OF WALL VERTICAL DEFLECTION TO UNDERSIDE OF PRIMARY STRUCTURE ..MIN (1/2", L/360) -- EXTERIOR WALLS: WIND PRESSURE PER BUILDING DESIGN CRITERIA;H/600 FOR WALLS BRACING MASONRY; H/360 FOR WALLS SUPPORTING TILE OR METAL PANEL;

H/240 FOR ALL OTHER WALLS -- INTERIOR WALLS: 5 PSF HORIZONTAL PRESSURE;H/600 FOR WALLS BRACING MASONRY; H/360 FOR WALLS SUPPORTING TILE OR METAL PANEL; H/240 FOR ALL OTHER WALLS.

LIGHT GAUGE FRAMING MEMBERS SHALL HAVE THE FOLLOWING MINIMUM MATERIAL PROPERTIES: FY = 33 KSI FOR 18 GA AND LIGHTER MEMBERS. FY = 50 KSI FOR ALL DIAGONAL STRAP BRACING AND FOR 16 GA AND HEAVIER MEMBERS. ALL MATERIALS, CONNECTORS, FASTENERS SHALL BE GALVANIZED

CFS SUPPLIER SHALL INCLUDE AN ALLOWANCE (2% OF CFS BID PACKAGE) FOR MISC CLIPS, CONNECTORS, AND ANGLES TO ADDRESS ANY ADDITIONAL CFS ITEMS NEEDED DURING THE SHOP DRAWING REVIEW AND CONSTRUCTION PROCESS.

2. ALL DESIGN, FABRICATION, AND ERECTION SHALL BE IN CONFORMANCE WITH AISI "SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS."

3. ALL EXTERIOR OR LOAD BEARING INTERIOR STUDS SHALL BE 600S162-43 (6" DEEP 18 GA) AT 16 INCHES ON CENTER MIN, UNLESS NOTED: REFER TO PLANS.

4. MINIMUM GAUGE OF STRUCTURAL STUDS SHALL BE 43 mils (18 GAUGE), UNLESS NOTED OTHERWISE.

5. TRACKS SHALL BE SECURELY ANCHORED TO THE SUPPORTING STRUCTURE TO PROPERLY TRANSFER IMPOSED LOADS. MINIMUM GAUGE OF TRACKS SHALL BE 43 mils (18 GAUGE). DEFLECTION TRACKS AT EXTERIOR WALL SHALL BE 16 GA MINIMUM.

6. PROVIDE WALL STUD BRIDGING FOR EACH STUD AS RECOMMENDED BY THE MANUFACTURER. MAXIMUM SPACING SHALL BE 4'-0" CENTERS.

7. ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY FOR ATTACHMENTS TO PERPENDICULAR MEMBER. MEMBERS SHALL BE HELD POSITIVELY IN PLACE UNTIL PROPERLY FASTENED.

8. NOTCHES OR SPLICES IN ANY STRUCTURAL STUDS WILL NOT BE PERMITTED.

9. DO NOT NOTCH, DRILL OR CUT ANY HOLES IN LOAD BEARING STUDS FOR ELECTRICAL OR MECHANICAL EQUIPMENT: USE EXISTING FABRICATED HOLES.

10. ALL WELDING SHALL BE PERFORMED BY WELDERS EXPERIENCED IN LIGHT GAUGE STEEL FRAMING WORK. TOUCH UP ALL WELDS WITH GALVANIZE COATING.

11. SCREWS IN LIGHT GAUGE FRAMING SHALL BE INSTALLED WITH MINIMUM EDGE DISTANCES OF 1/2" AND MINIMUM SPACING BETWEEN SCREWS OF 3/4".

12. WHERE BACK-TO-BACK STUD COLUMNS ARE USED, ATTACH WITH #10 SCREWS @ 12" OC MAX, UNO.

13. LATERAL BRACING MUST BE IN PLACE IN EACH DIRECTION BEFORE ANY LOAD IS APPLIED TO THE WALLS & LEFT IN PLACE UNTIL THE WORK IS PERMANENTLY STABILIZED.

NON-LOAD-BEARING COLD FORMED STEEL FRAMING NOTES:

1. METAL STUD MANUFACTURERS GENERALLY RECOMMEND HORIZONTAL BRIDGING OR STRAPPING TO BE PROPERLY INSTALLED AT 5 FT TO 6 FT OC, MECHANICALLY ATTACHED TO EACH STUD TO PREVENT DAMAGE DURING CONSTRUCTION, EVEN IF ONE SIDE OR BOTH SIDES ARE TO BE SHEATHED WITH RIGID FACING MATERIALS.

2. WHEN RIGID FACING MATERIALS ARE NOT ATTACHED TO EITHER SIDE, SUCH AS ABOVE CEILINGS, HORIZONTAL BRIDGING OR STRAPPING AT EACH FACE SHALL BE INSTALLED

3. WHERE THE TOP OF THE STUD WALLS TERMINATE AGAINST PRIMARY STRUCTURAL FRAMING, A "DEFLECTION TRACK" SHOULD BE USED TO ALLOW FOR VERTICAL MOVEMENT. ONE ROW OF THE RECOMMENDED HORIZONTAL BRIDGING SHALL BE PROPERLY INSTALLED BY MECHANICAL ATTACHMENTS TO EACH STUD AS CLOSE TO THE TOP AS POSSIBLE. ANY TEMPORARY SCREWS FROM THE TOP DEFLECTION TRACK TO THE METAL STUDS SHALL BE REMOVED AS SOON AS POSSIBLE TO ALLOW VERTICAL DEFLECTION OF THE PRIMARY FRAMING AND TO PREVENT DAMAGE TO THE STUD WALL. METAL STUDS SHOULD NEVER BE ATTACHED DIRECTLY TO HORIZONTAL STRUCTURAL FRAMING SYSTEMS WITHOUT A DEFLECTION TRACK OR VERTICALLY SLOTTED.

RTU CURBS:

1. MECHANICAL ROOFTOP EQUIPMENT SUPPLIER SHALL SUPPLY A STRUCTURAL SUPPORT CURB (AND/OR ADAPTER) FOR THE PLENUM, OF THE SPECIFIED HEIGHT, AS SHOWN ON THE MECHANICAL DRAWINGS.

 DESIGN OF THE CURB AND ADAPTER IS A DELEGATED DESIGN SUBMITTAL. EQUIPMENT SUPPLIER SHALL ENGAGE AN ENGINEER LICENSED IN THE STATE OF THE PROJECT TO DEVELOP A DESIGN FOR THE CURB AND ADAPTER. DESIGN SHALL CONSIDER ALL CODE REQUIRED GRAVITY AND WIND LOADS. THE DESIGN SHALL INCI UDE ALL FASTENERS AND CONNECTORS REQUIRED TO ANCHOR THE CURB TO THE ROOF STRUCTURE. SUBMIT SIGNED AND SEALED ANALYSIS CALCULATIONS, DESIGN AND SHOP DRAWINGS TO MECHANICAL AND STRUCTURAL ENGINEER FOR REVIEW

2. CURB SHALL BE FABRICATED OF A MINIMUM OF 14 GA GALVANIZED STEEL.

3. CURBS SHALL BE INSULATED



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Dev Anand President & CEO

Kevin Campbell Senior Architect

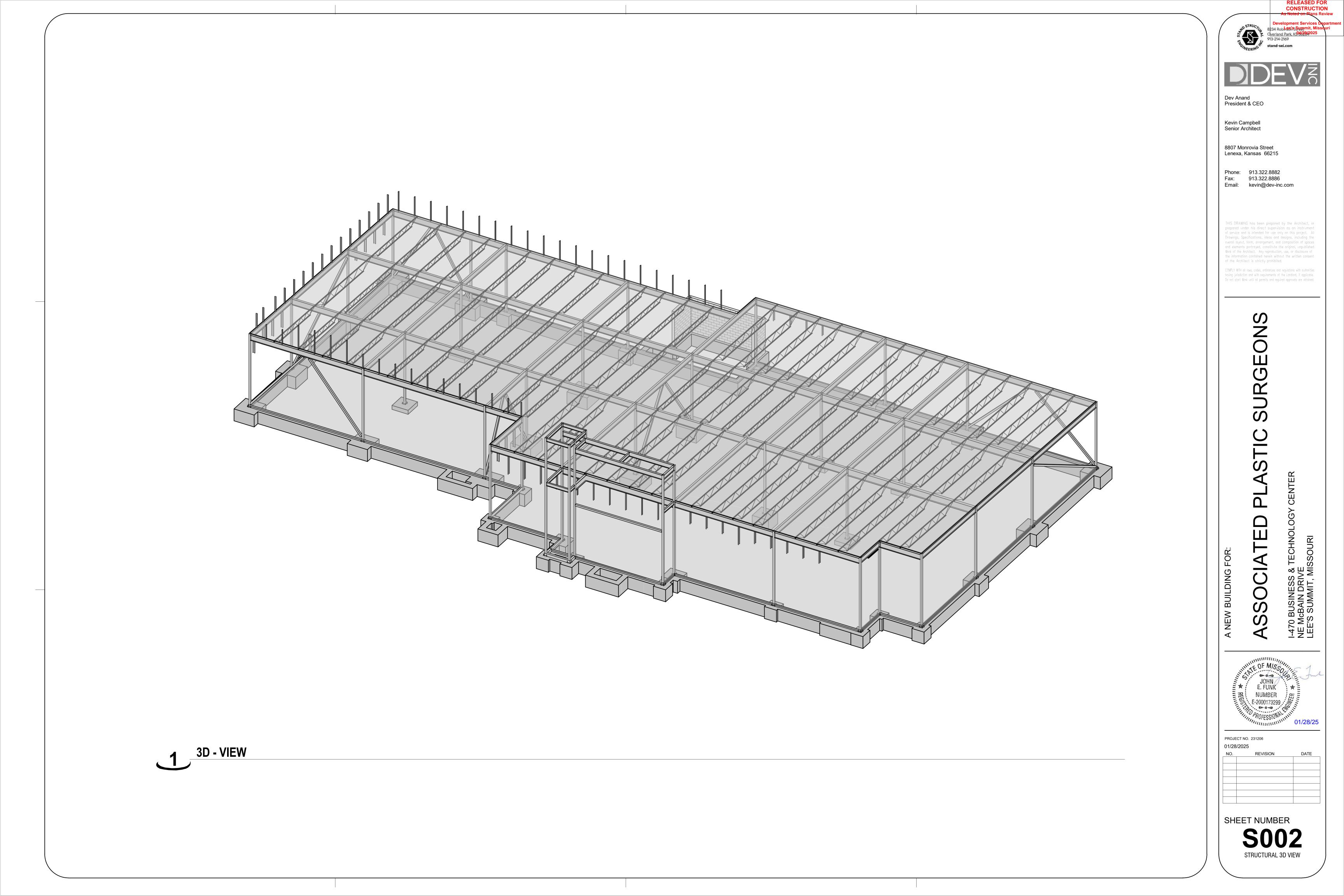
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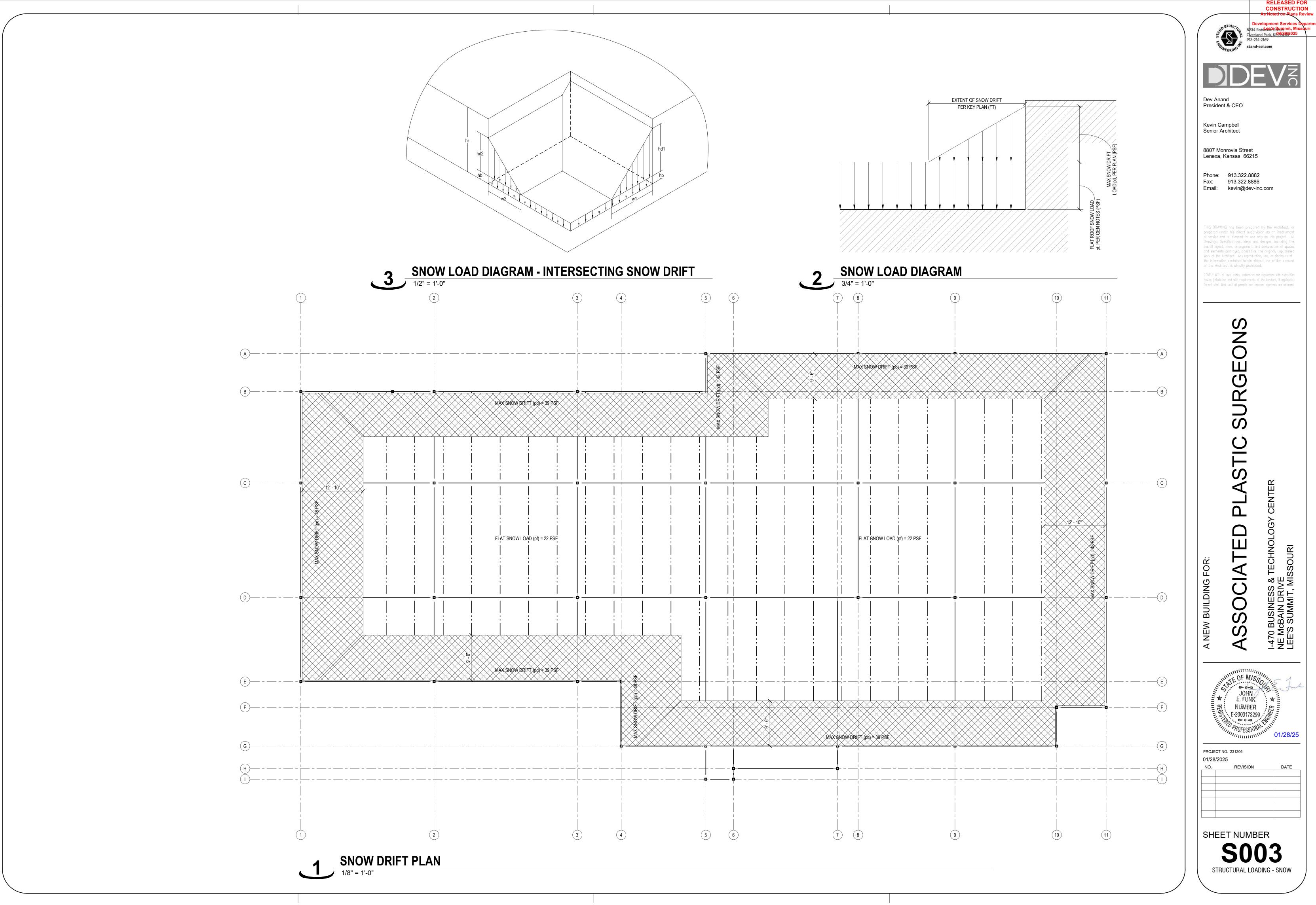
Phone: 913.322.8882 Fax: 913.322.8886 Email: kevin@dev-inc.com

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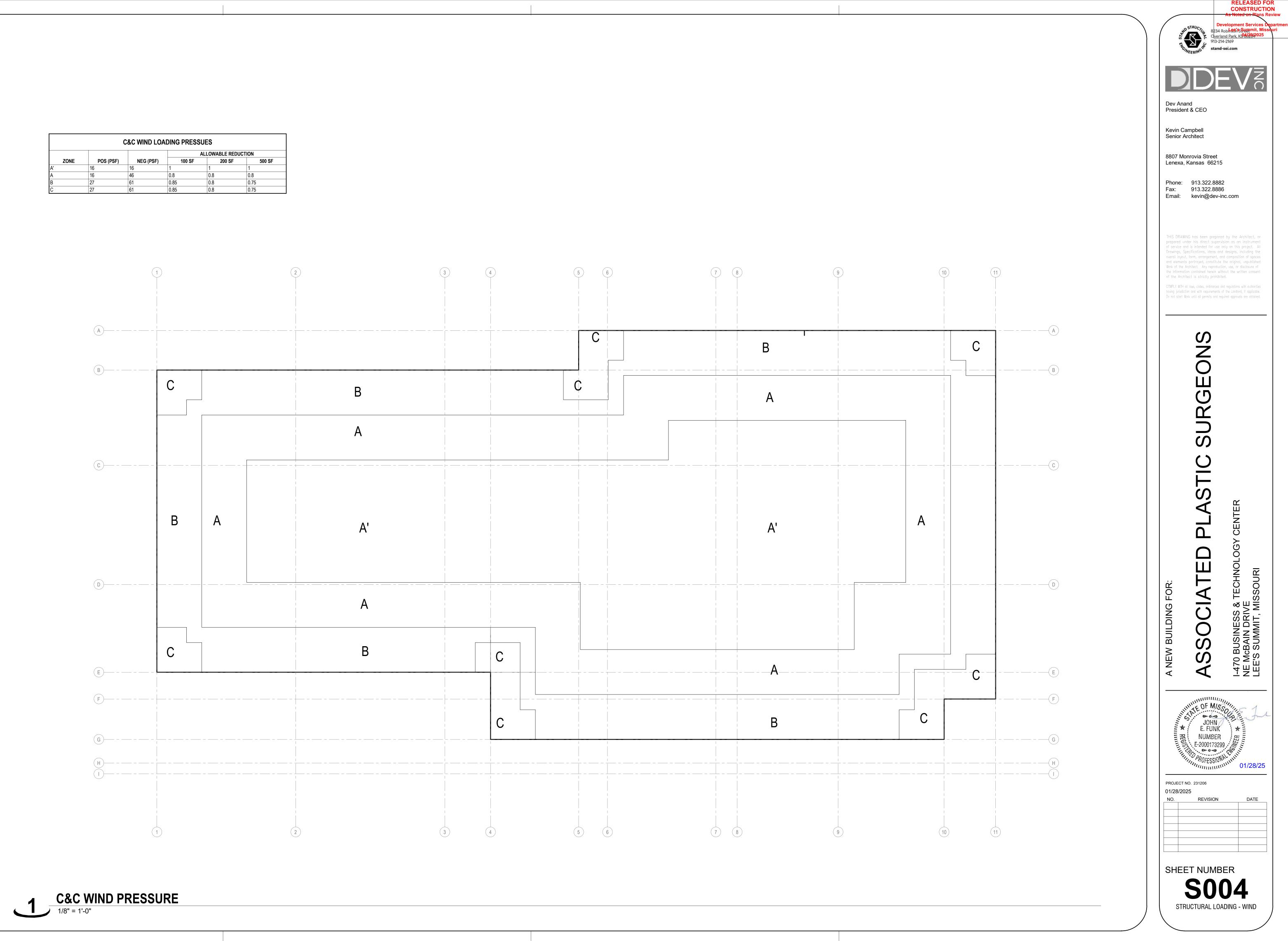


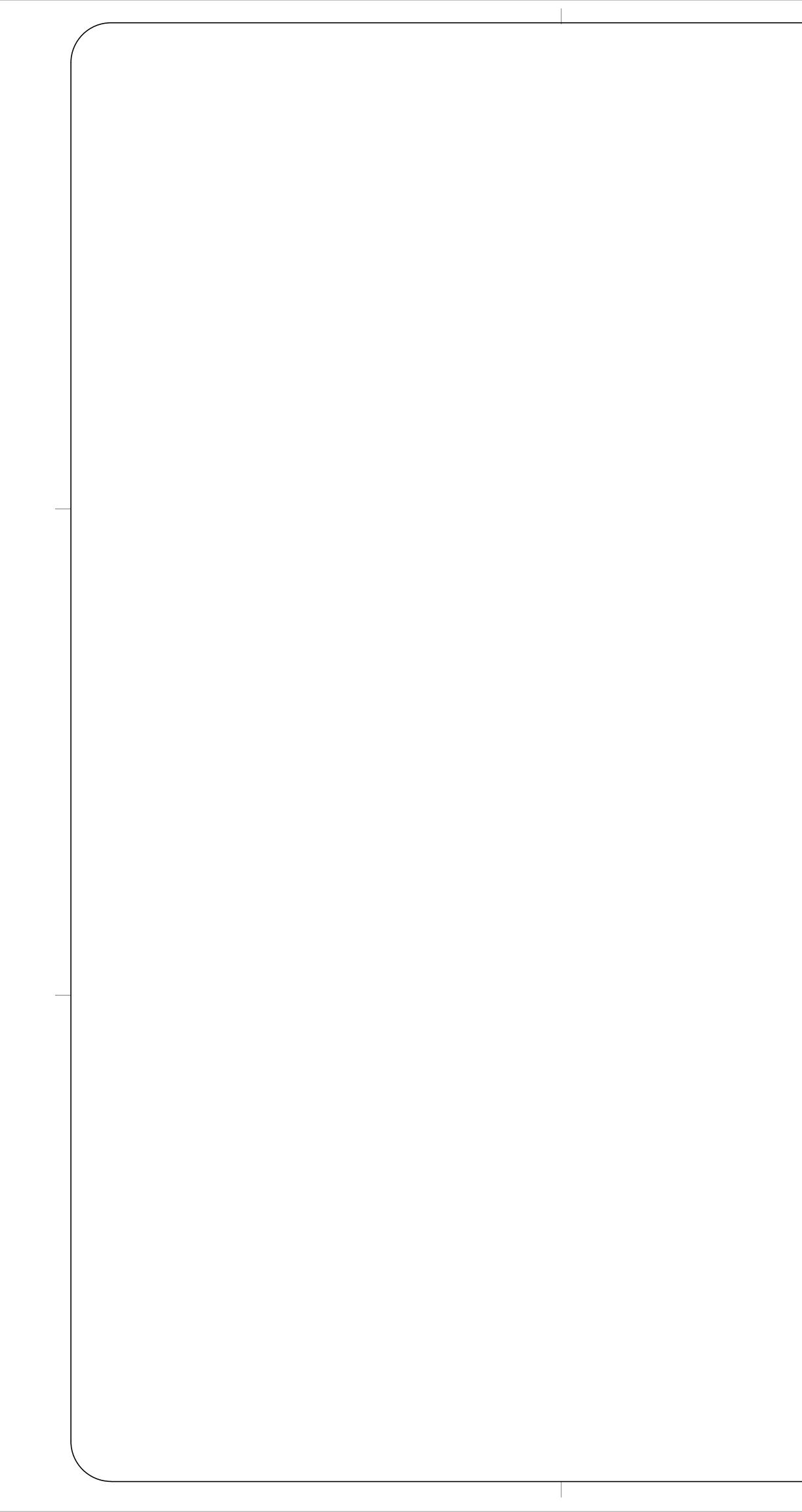
SHEET NUMBER STRUCTURAL GENERAL NOTES

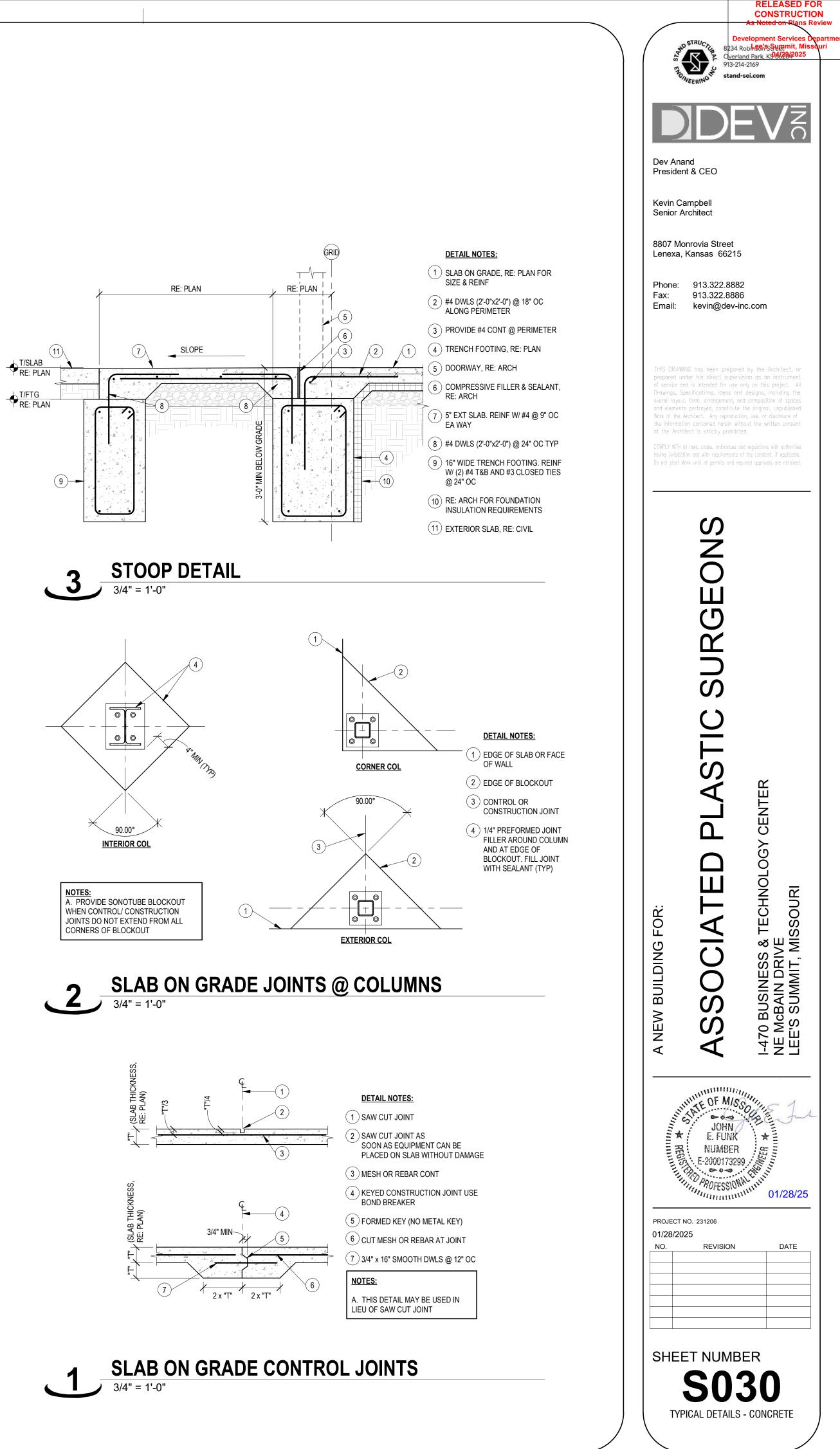


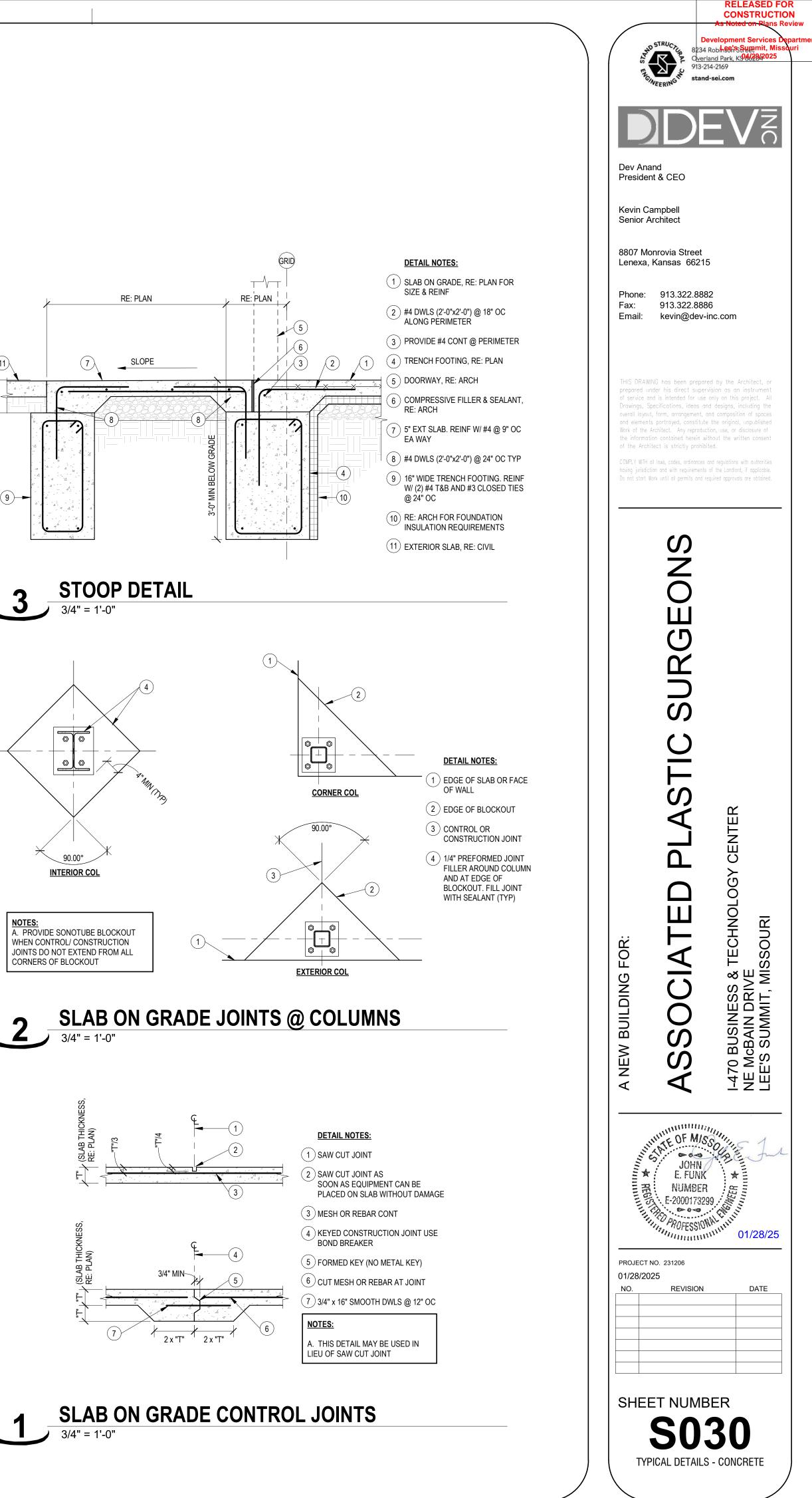


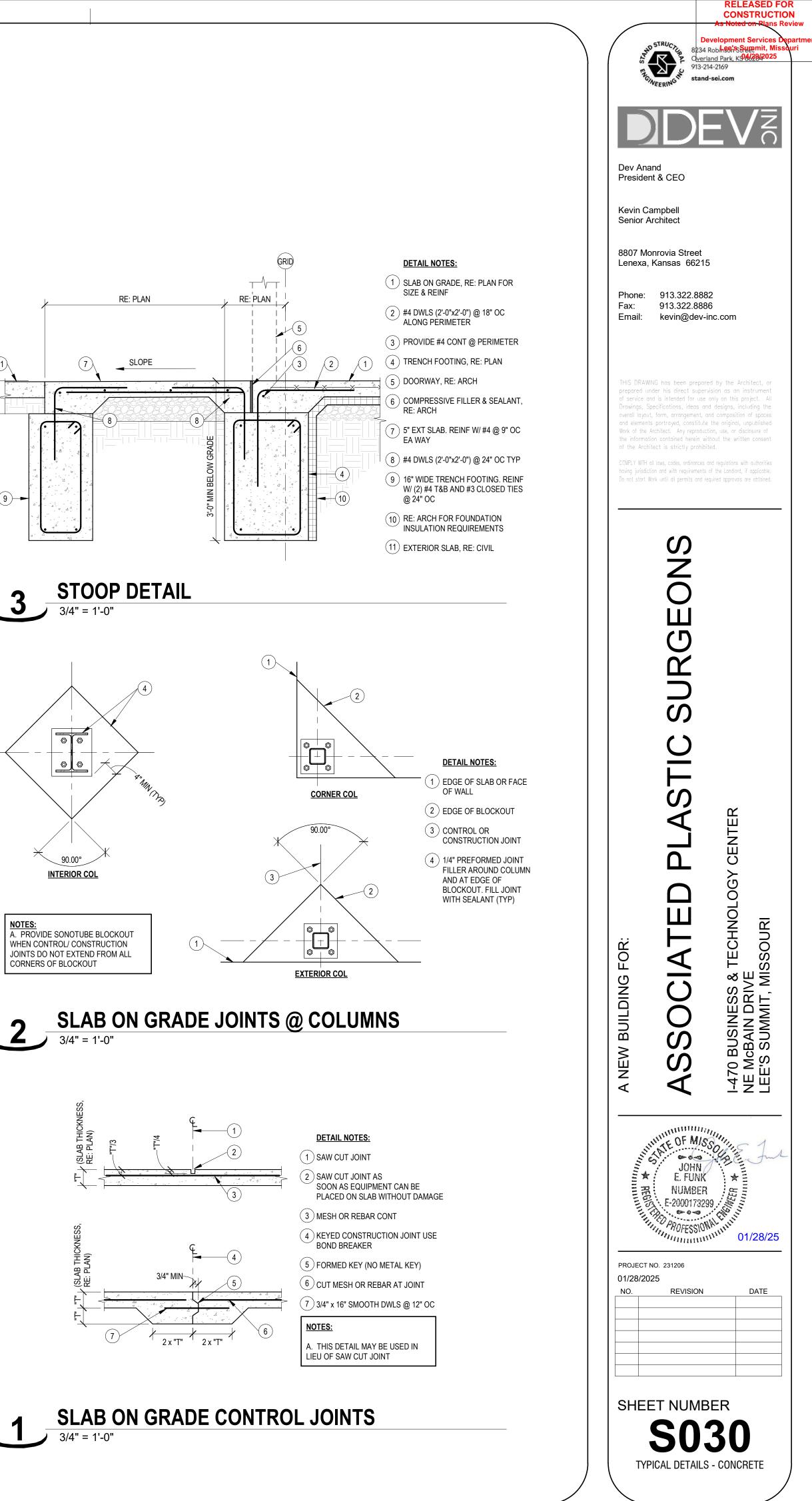
C&C WIND LOADING PRESSUES					
			ALLOWABLE REDUCTION		
ZONE	POS (PSF)	NEG (PSF)	100 SF	200 SF	500 SF
A'	16	16	1	1	1
A	16	46	0.8	0.8	0.8
В	27	61	0.85	0.8	0.75
С	27	61	0.85	0.8	0.75

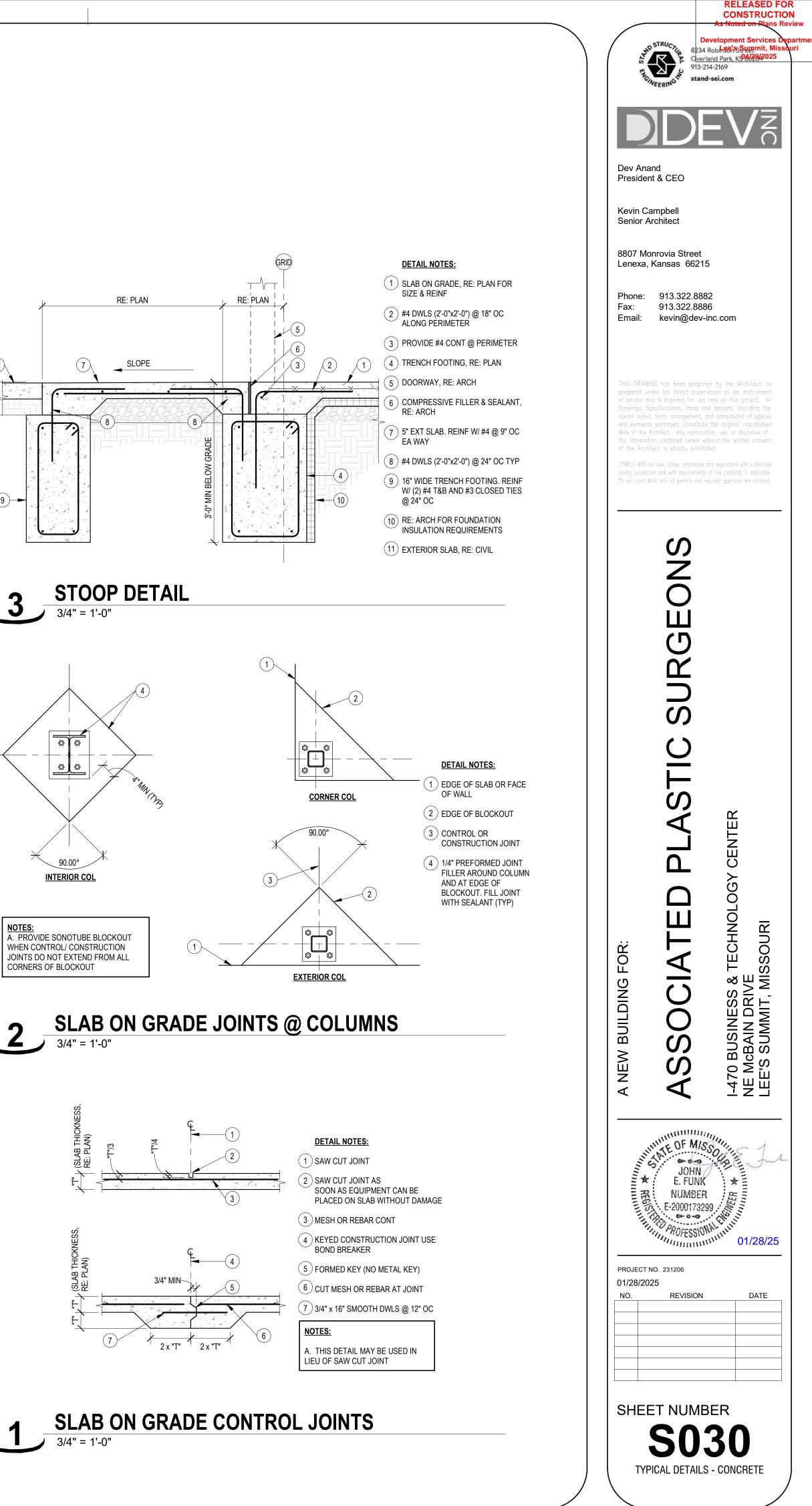


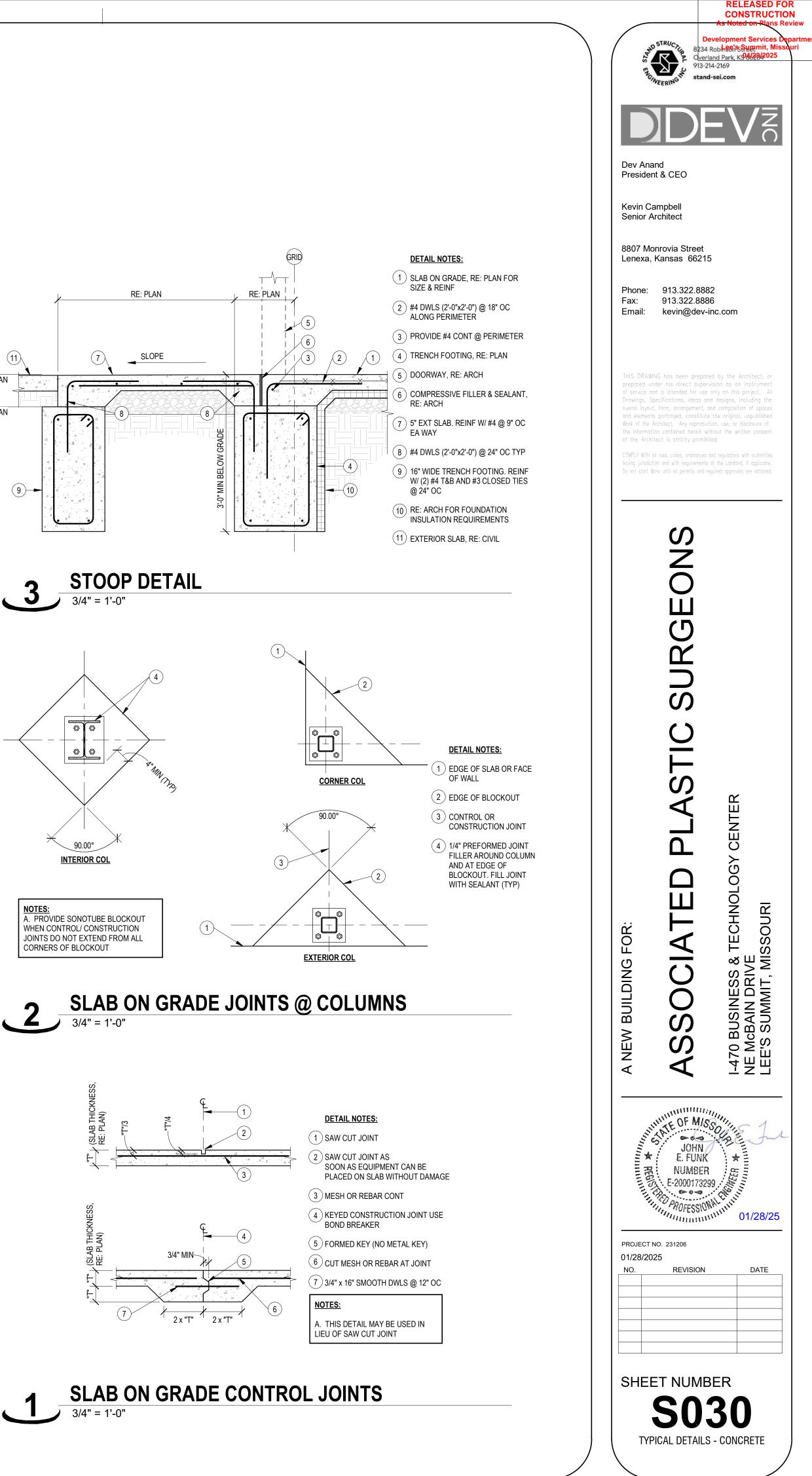


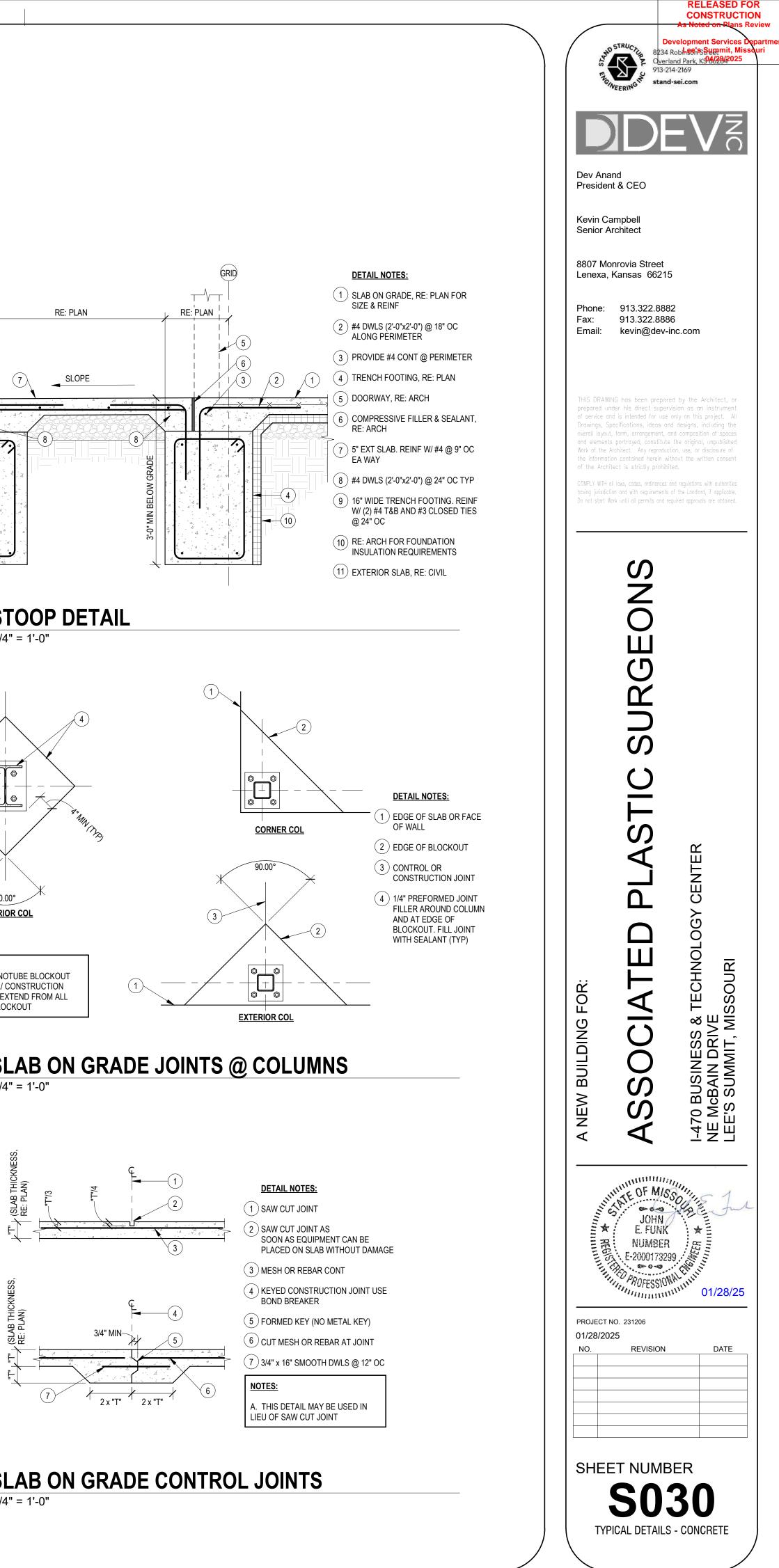


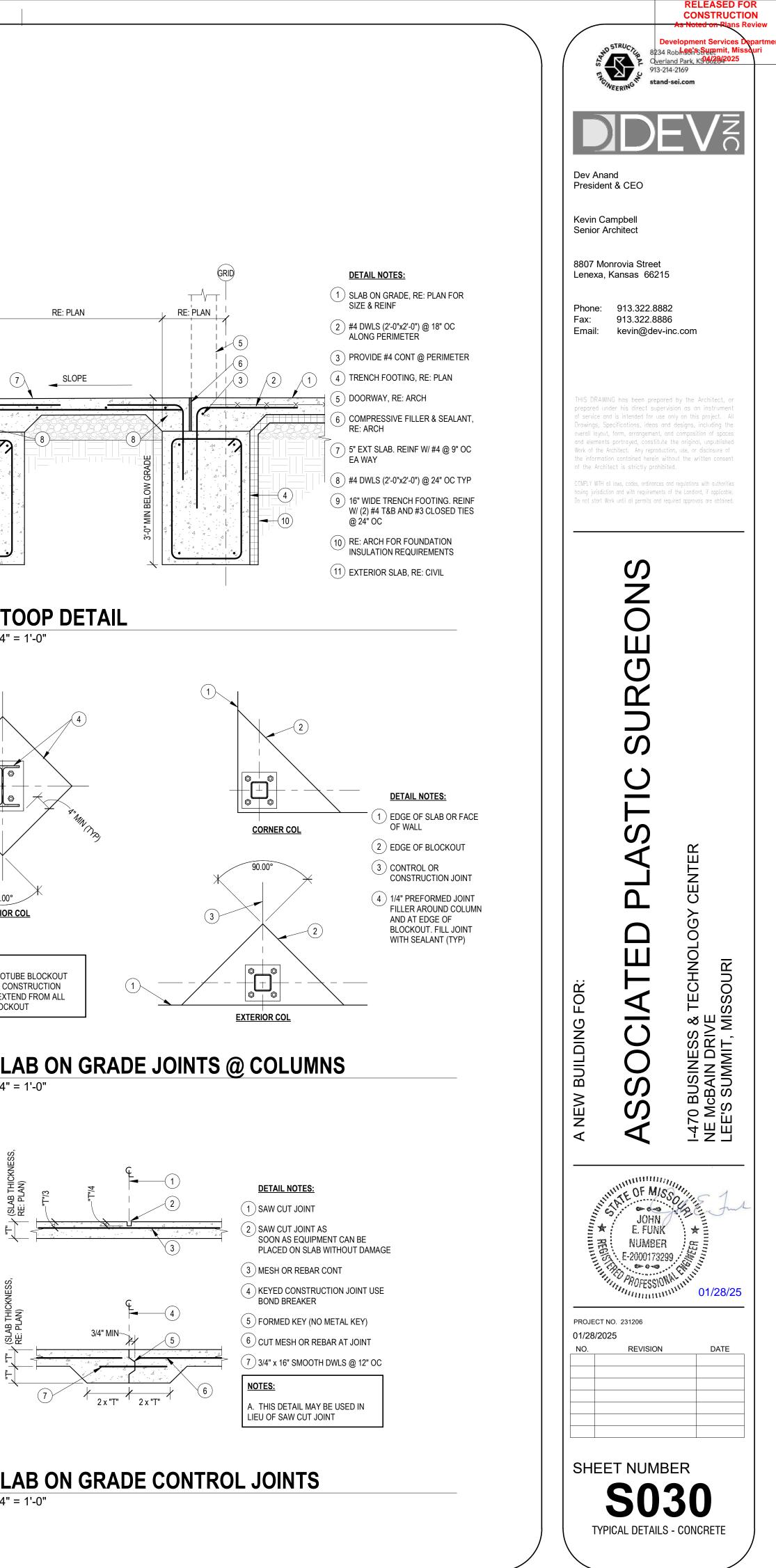


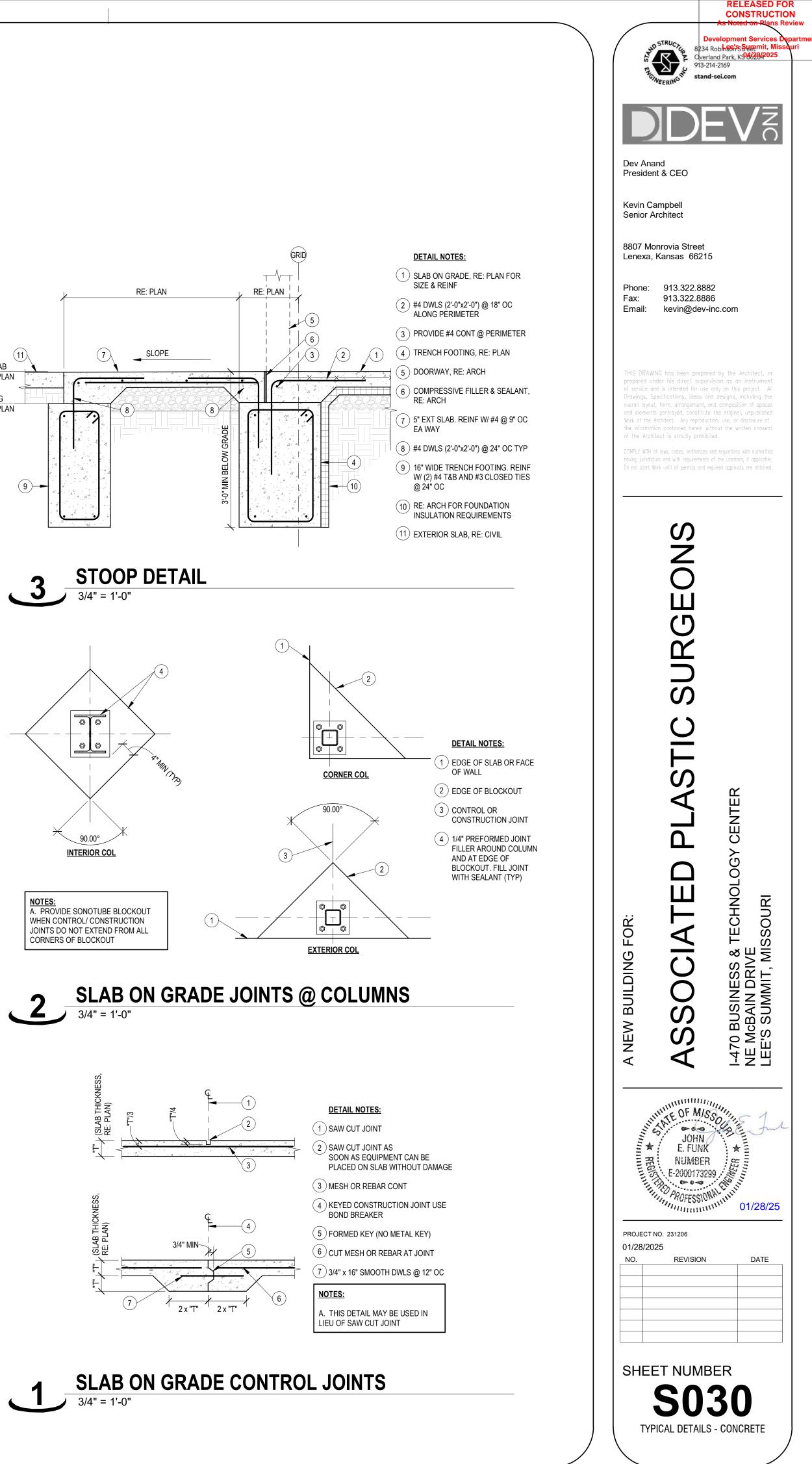


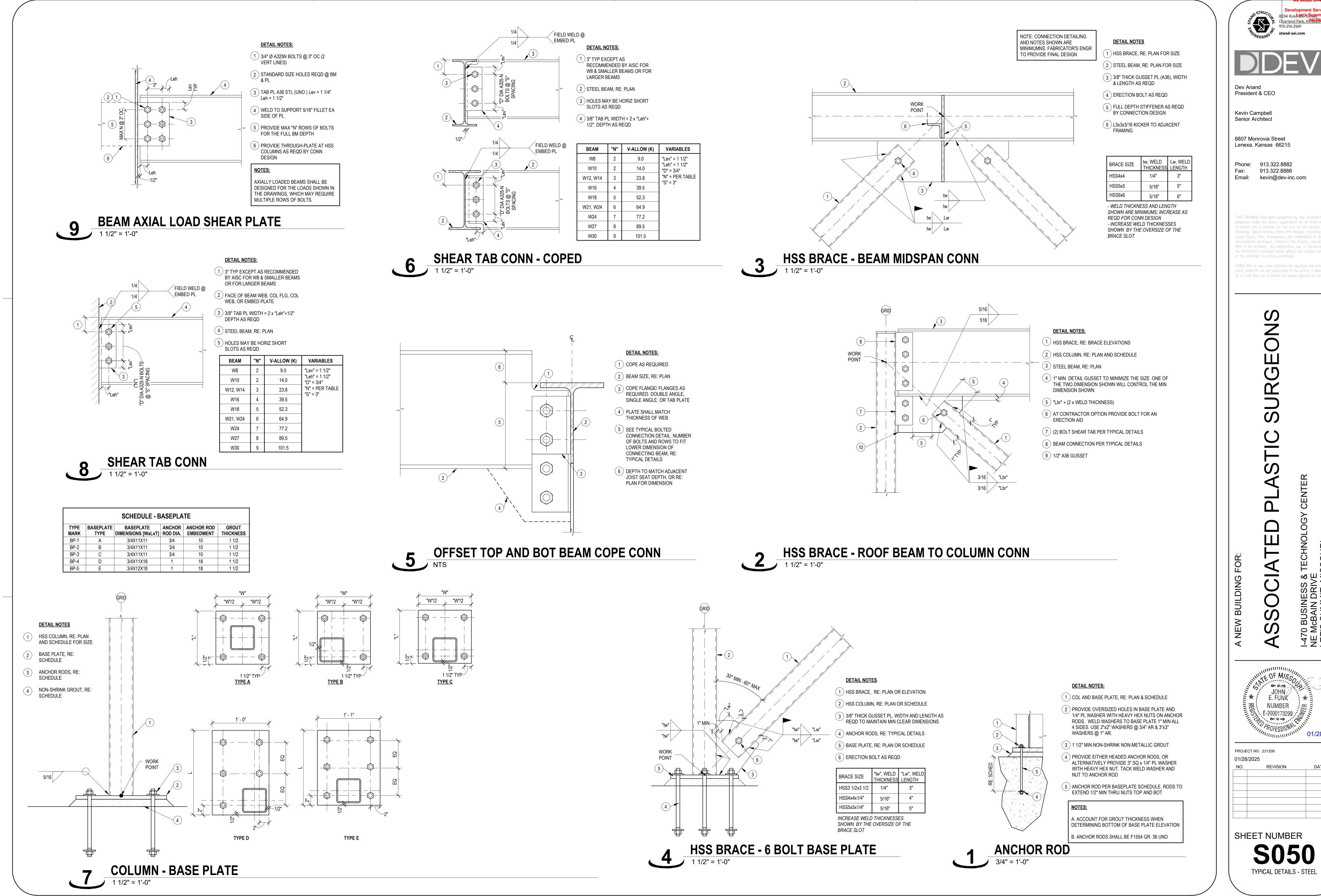


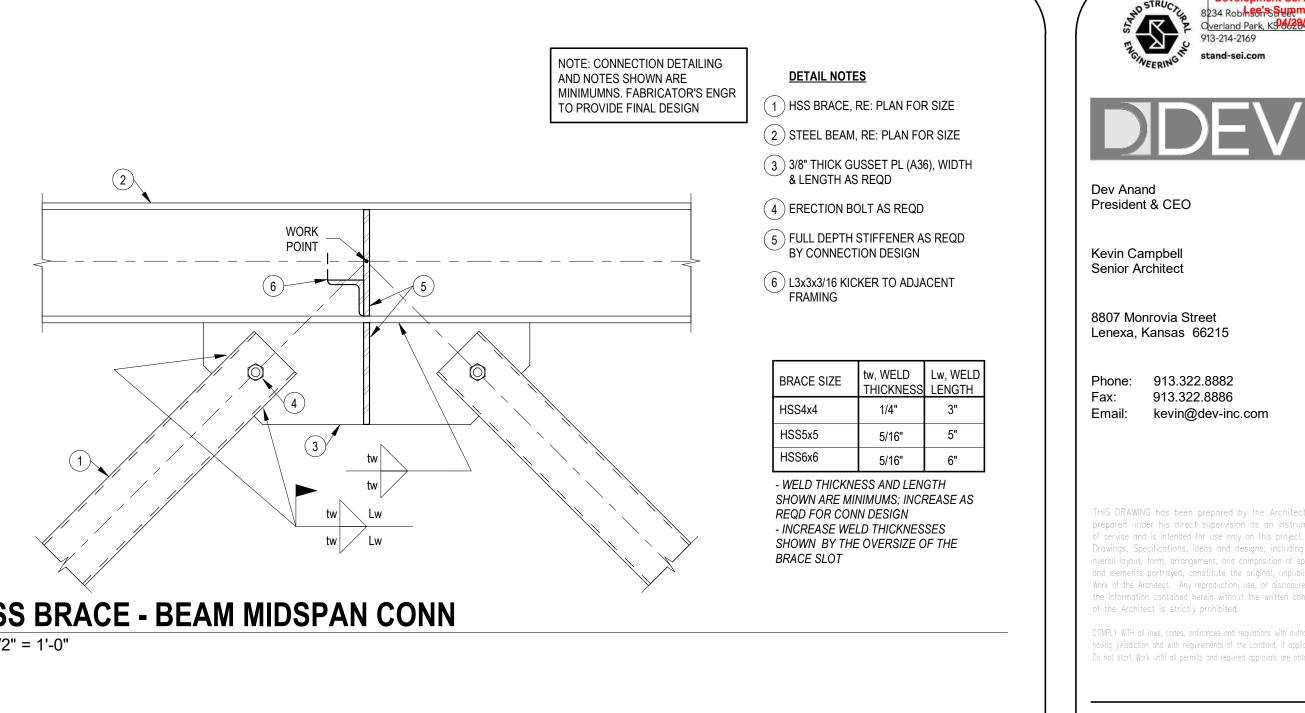


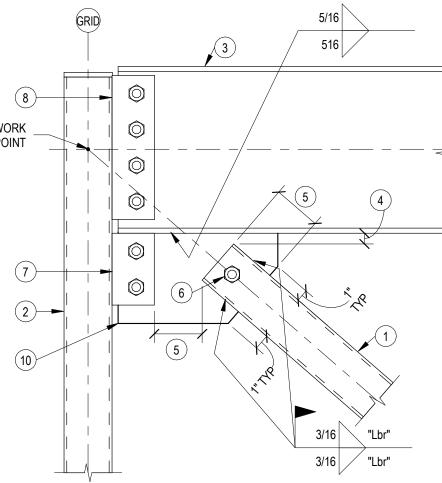






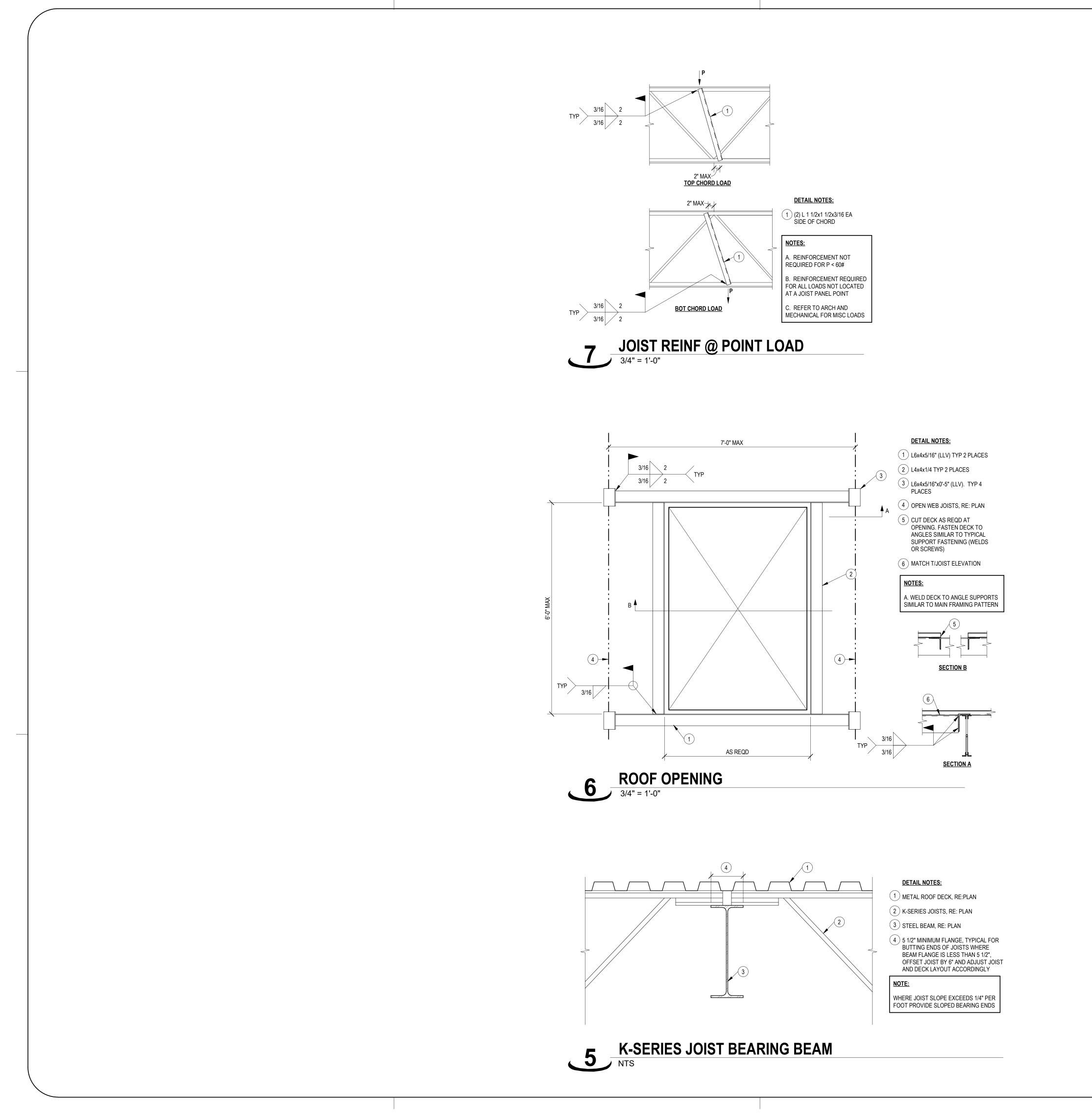




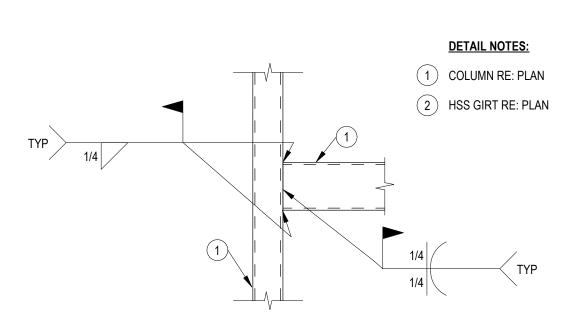


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Frame: 913.322.8886 Email: Kevin@dev-inc.com THS DRAWING has been prepared by the Architect, or prepared under his direct supervision as an instrument of service and is intended for use only on his project. All provings, Specifications, lades and designs, including the verified of use only on his project. All specifications, lades and designs, including the verified of use only on his project. All specifications, lades and designs, including the verified of use only on his project. All specifications, lades and designs, including the verified of use on the verified of use of the verified of use on the verified of use of the verified of the verified of the verified of use of the verified of
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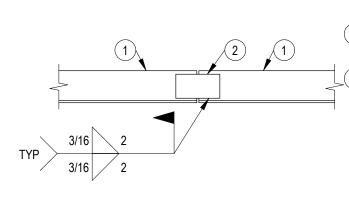
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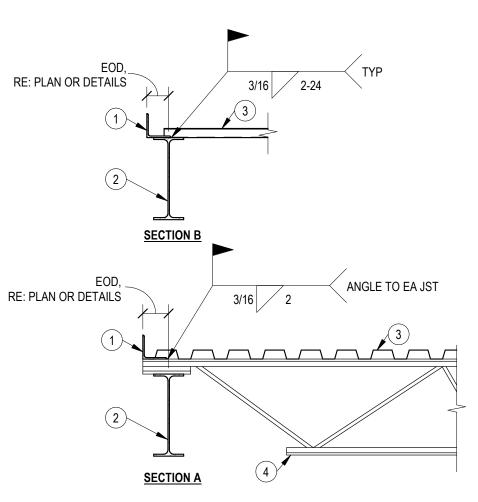
TYP JST BRG RE: GENERAL NOTES



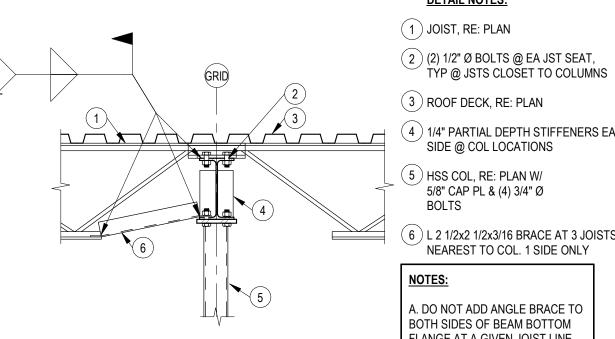
$4 \frac{\text{TYP HSS TO HSS CONN}}{3/4" = 1'-0"}$



EDGE ANGLE SPLICE 1" = 1'-0"



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



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

DETAIL NOTES:

- 1 CHORD ANGLE, RE: PLAN AND TYP DETAILS (2) 3/8"x3"x5" CHORD SPLICE
- PLATE
- NOTES: A. CONTRACTOR OPTION TO 3/16" BUTT-WELD

SPLICES OF EDGE ANGLE END TO END

DETAIL NOTES: (1) CONT EDGE ANGLE, RE: TYP DETAILS (L4x4x1/4" UNO)

(2) STEEL BEAM, RE: PLAN (3) ROOF DECK, RE: PLAN (4) JOIST, RE: PLAN

NOTES: A. SEE TYP DTL FOR EDGE ANGLE SPLICE DETAIL

DETAIL NOTES:

\triangleleft E 🍖 🗄 涡 (4) 1/4" PARTIAL DEPTH STIFFENERS EA SIDE @ COL LOCATIONS 01/28/2025 NO. (6) L 2 1/2x2 1/2x3/16 BRACE AT 3 JOISTS

NOTES:

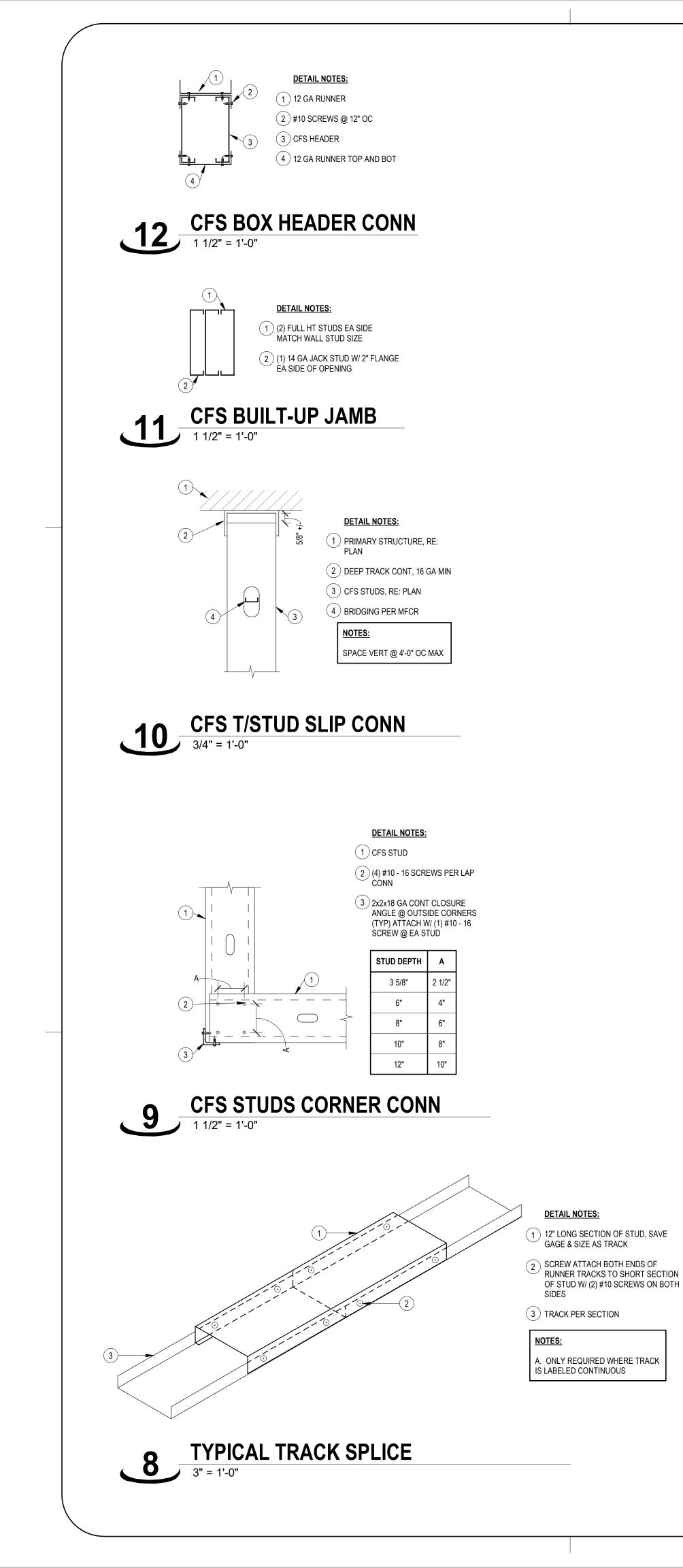
BOLTS

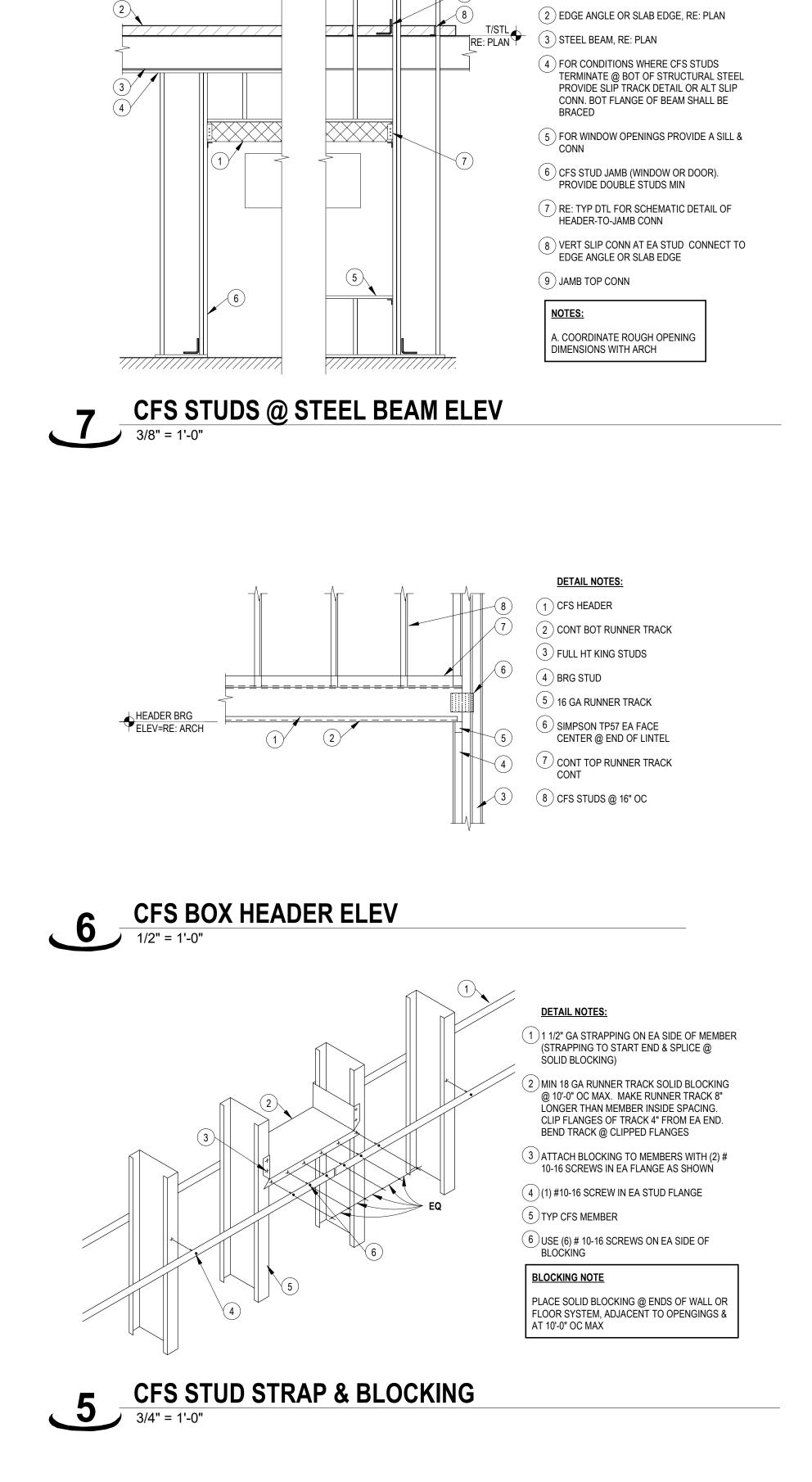
(5) HSS COL, RE: PLAN W/ 5/8" CAP PL & (4) 3/4" Ø

A. DO NOT ADD ANGLE BRACE TO BOTH SIDES OF BEAM BOTTOM FLANGE AT A GIVEN JOIST LINE

NEAREST TO COL. 1 SIDE ONLY

RELEASED FOR CONSTRUCTION Interior Plans Review Reverand Park, K94/29/2025 913-214-2169 stand-sei.com Dev Anand President & CEO Kevin Campbell Senior Architect 8807 Monrovia Street Lenexa, Kansas 66215 Phone: 913.322.8882 Fax: 913.322.8886 Email: kevin@dev-inc.com information contained herein without the written co he Architect is strictly prohibited COMPLY WITH all laws, codes, ordinances and regulations with author aving jurisdiction and with requirements of the Landlord, if applicable. not start Work until all permits and required approvals are obtained SURGEONS STIC TER CEN Ω \square Ш TECHNOI I-470 BUSINESS & TECHNONE MCBAIN DRIVE LEE'S SUMMIT, MISSOURI IAT 0 BUILDING ASSOC NEW WINTE OF MISO JOHN E. FUNK NUMBER E-2000173299 PROFESSIONA 01/28/25 (IIIIIII) PROJECT NO. 231206 REVISION DATE SHEET NUMBER **S051 TYPICAL DETAILS - STEEL**



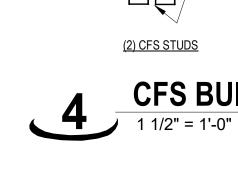


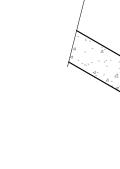
T/STUD RE: ARCH

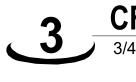
DETAIL NOTES:

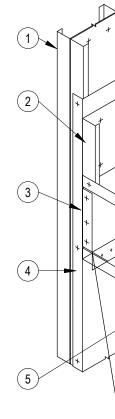
PER STUD SUPPLIER

(1) CFS STUD HEADER AND SUPPORT CONN



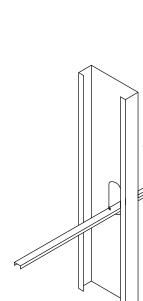


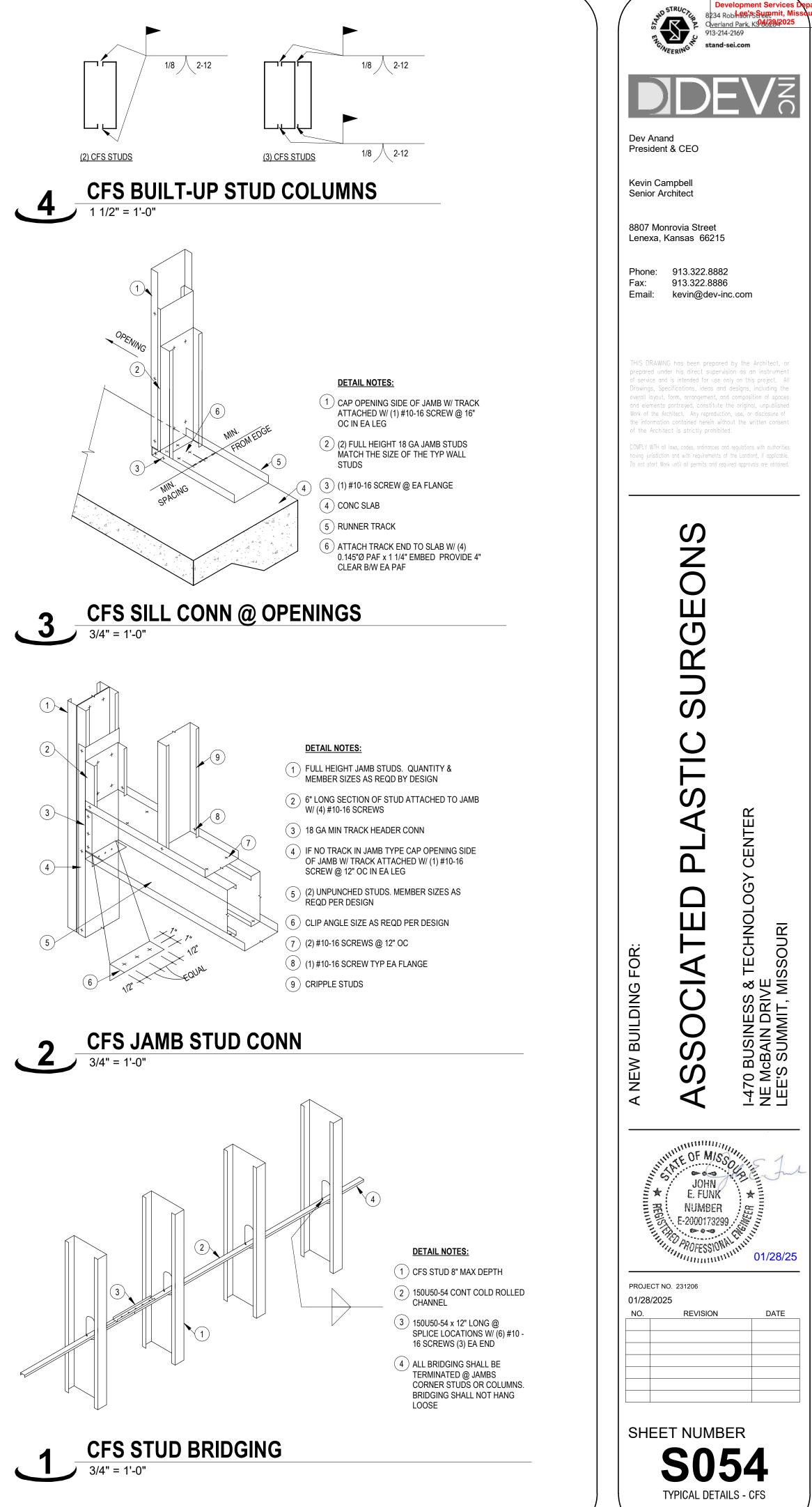








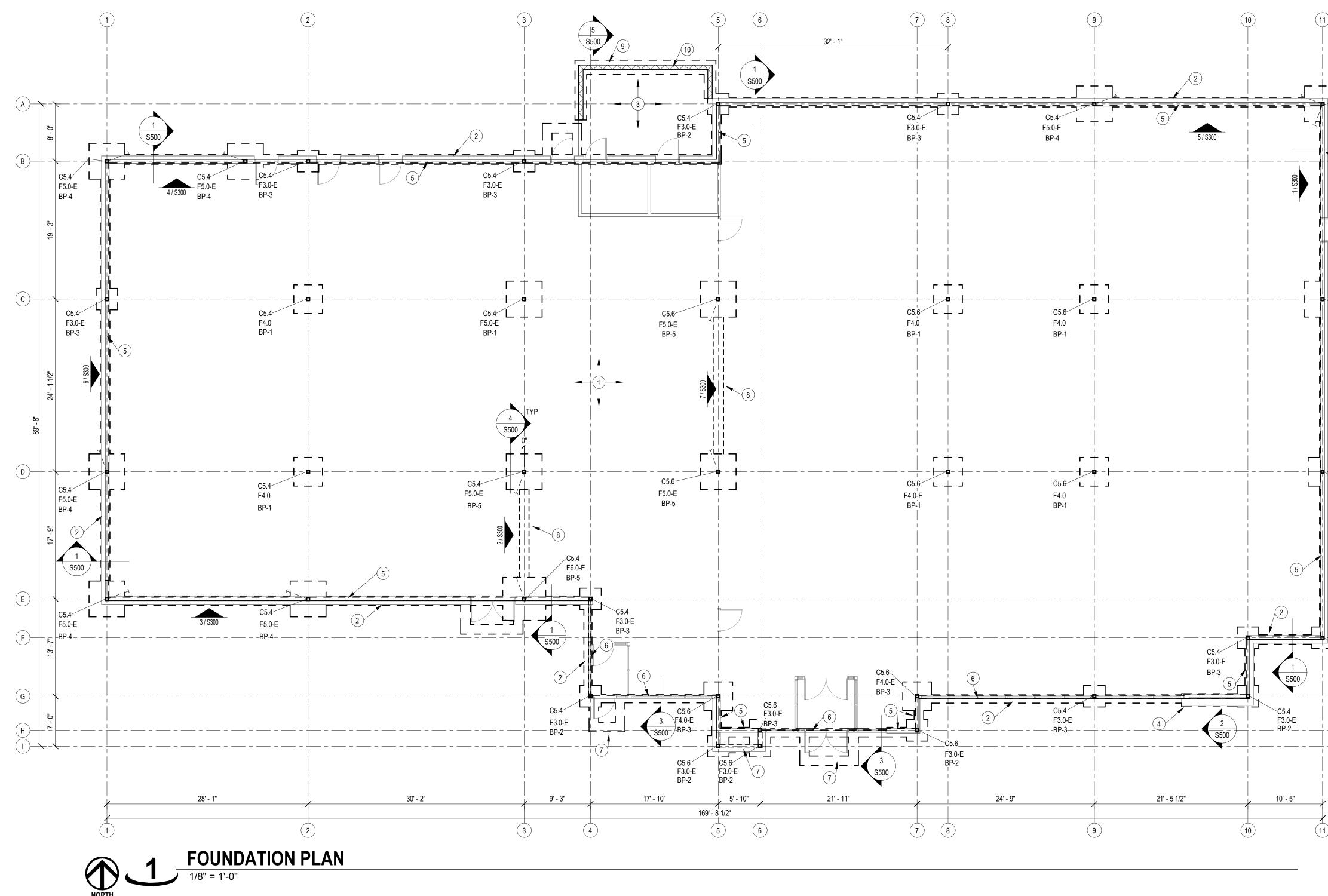




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	SCHED	ULE - SPREAD	FOOTING	
TYPE MARK	LENGTH	WIDTH	THICKNESS	REINF
F4.0	4' - 0"	4' - 0"	1' - 0"	(5) #5 EW TOP & BOT
F3.0-E	3' - 0"	3' - 0"	3' - 0"	(4) #5 EW TOP & BOT
F4.0-E	4' - 0"	4' - 0"	3' - 0"	(5) #5 EW TOP & BOT
F5.0-E	5' - 0"	5' - 0"	3' - 0"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

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



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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:

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

—(A)

~C5.4

F5.0-E

BP-4

-----(C)

- ----(D)

C5.4

F4.0-E

BP-3

C5.4

F3.0-E

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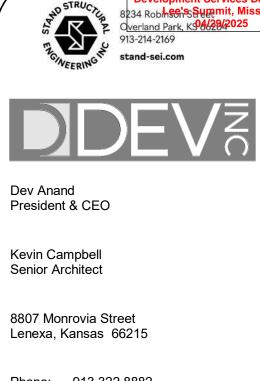
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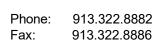
C5.4

F5.0-E

BP-4

- (8) 16" WIDE x 1'-0" DEEP TIE BEAM. REINF W/ (2) #5 CONT TOP & BOT AND #3 TIES @ 48" OC
- 9 24" WIDE x 3'-0" DEEP TRENCH FOOTING. REINF W/ (3) #5 CONT TOP & BOT & #3 TIES @ 24" OC
- (10) 8" FULLY GROUTED CMU WALLS, RE: 5/S500



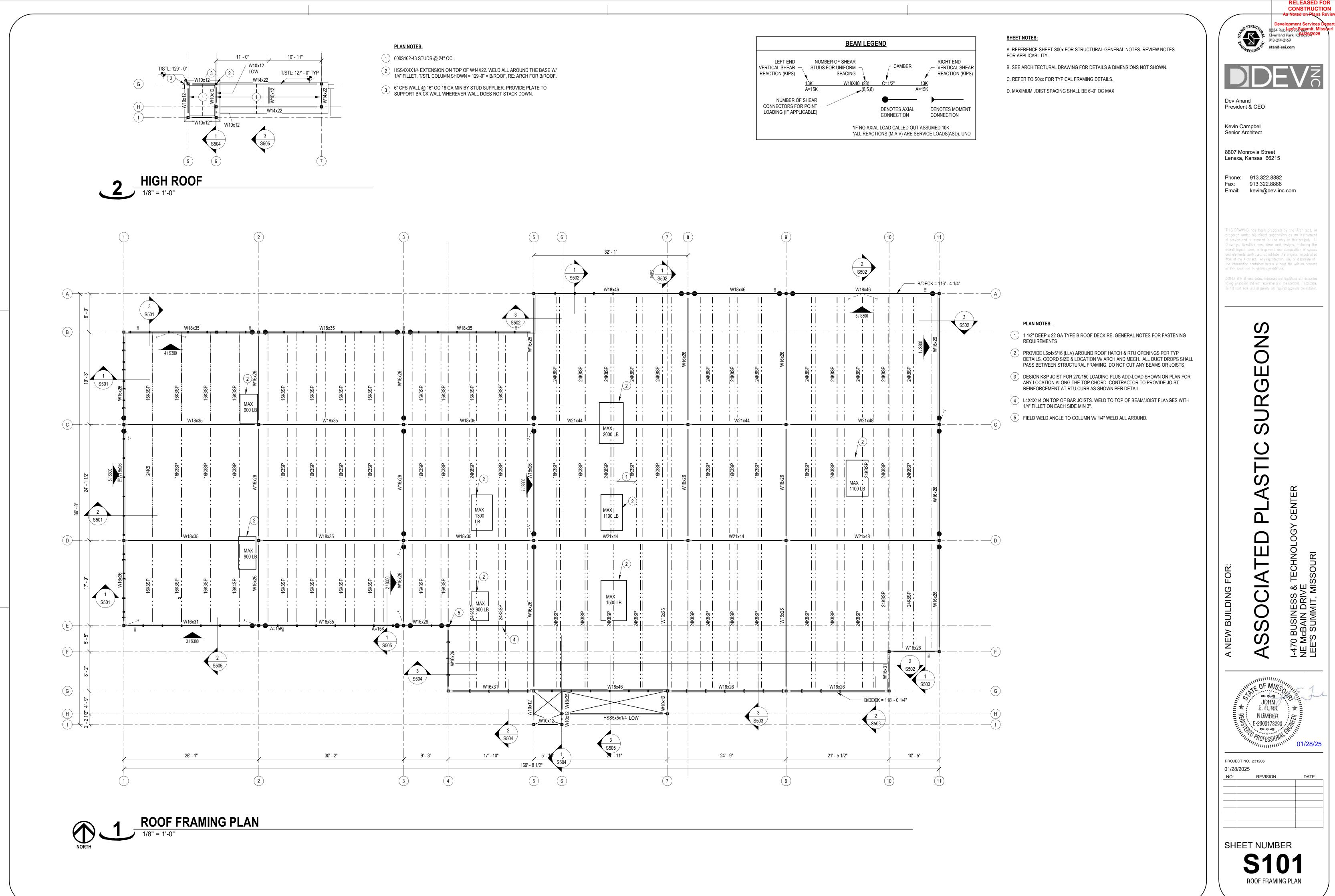


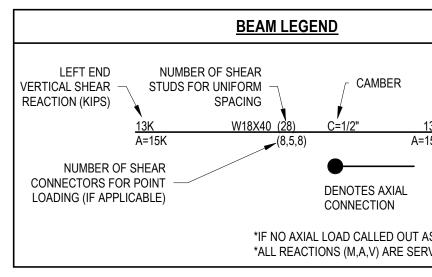
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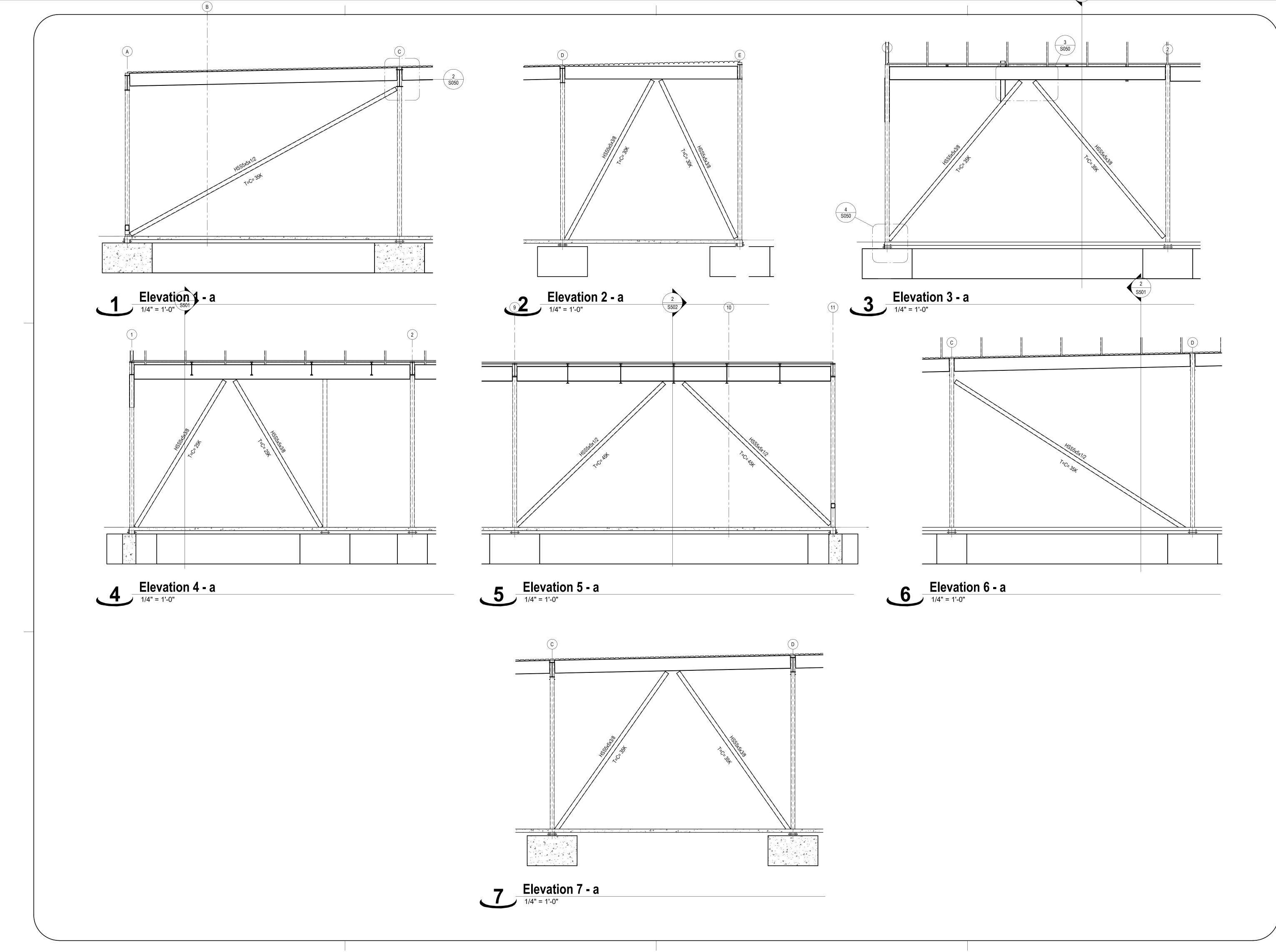
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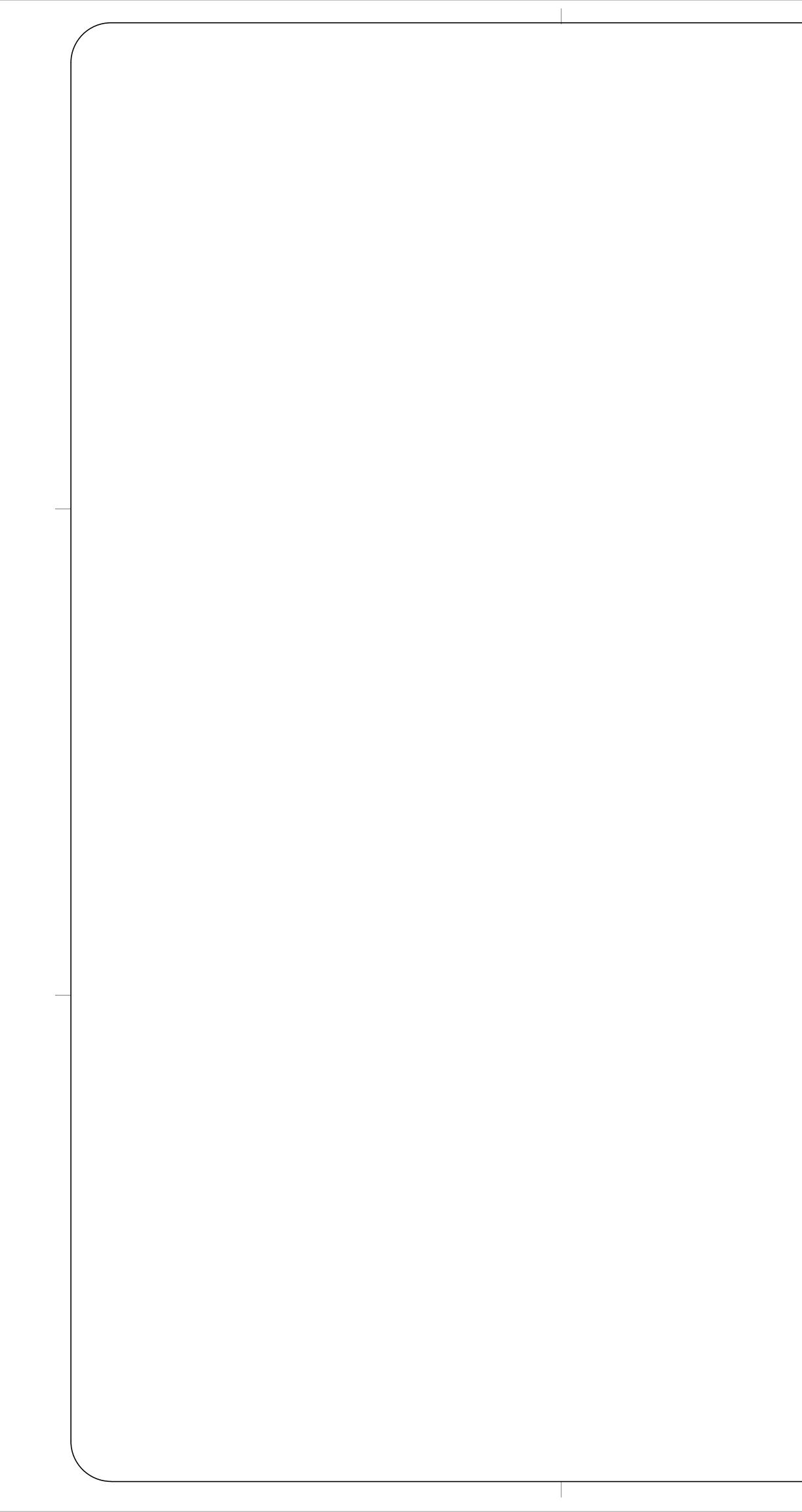


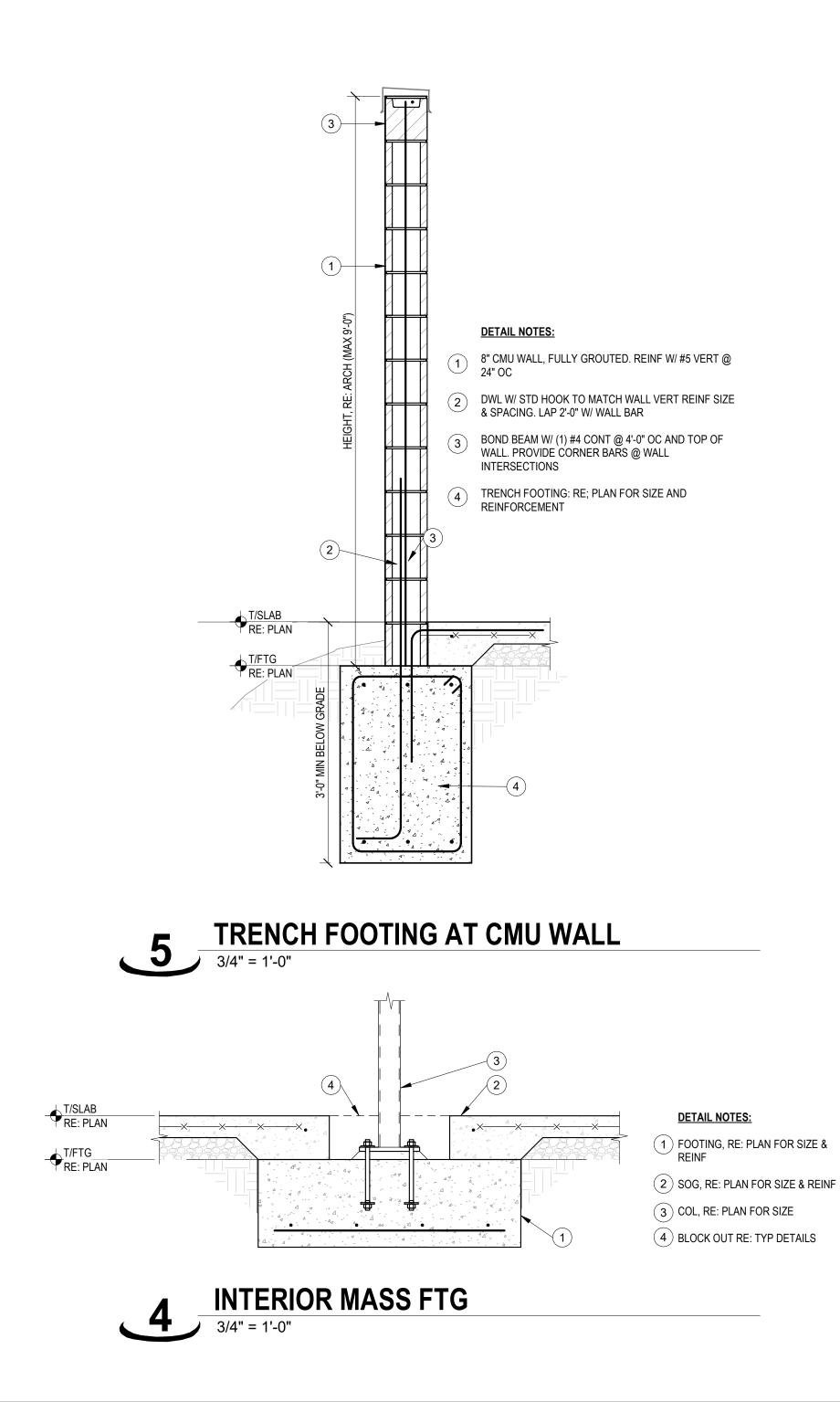


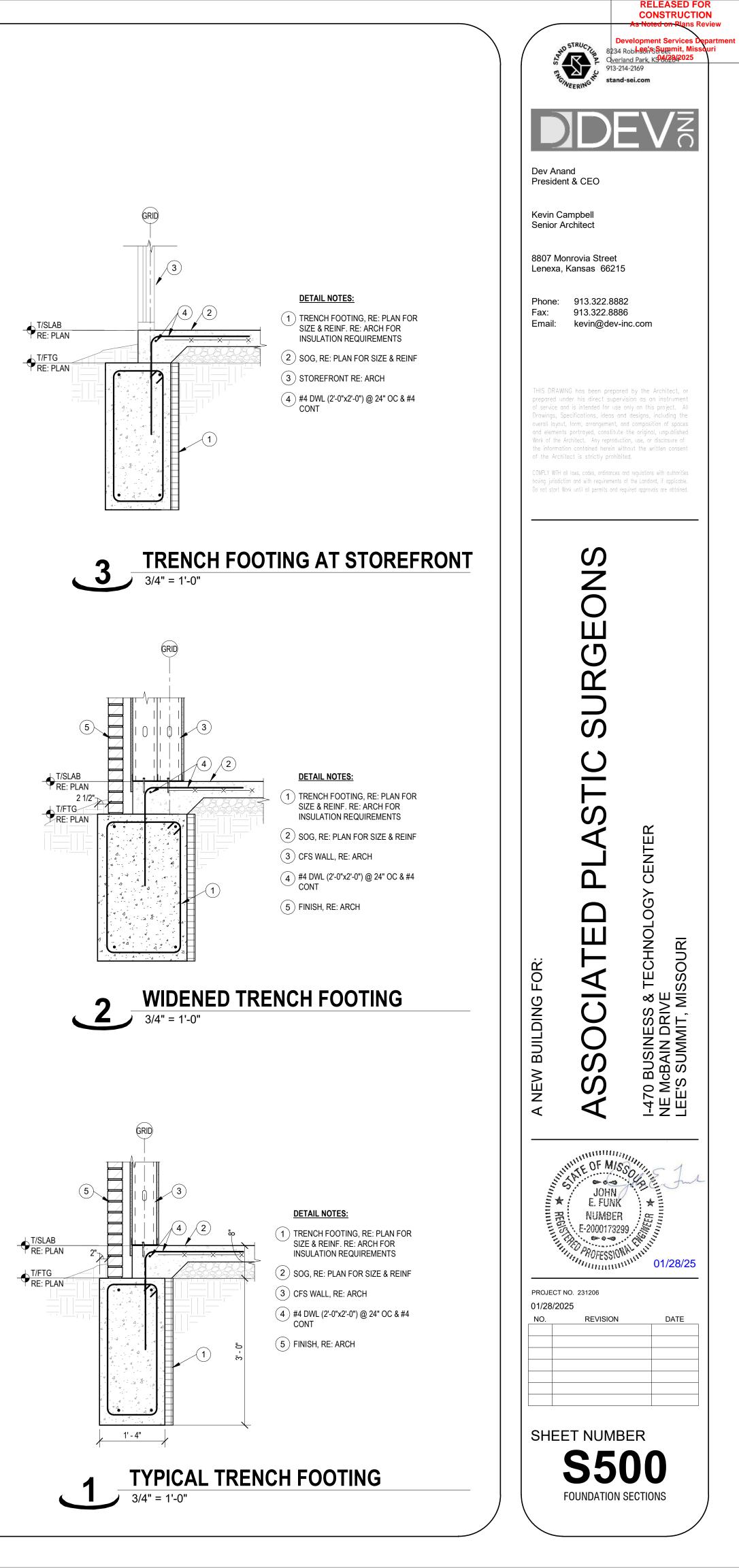


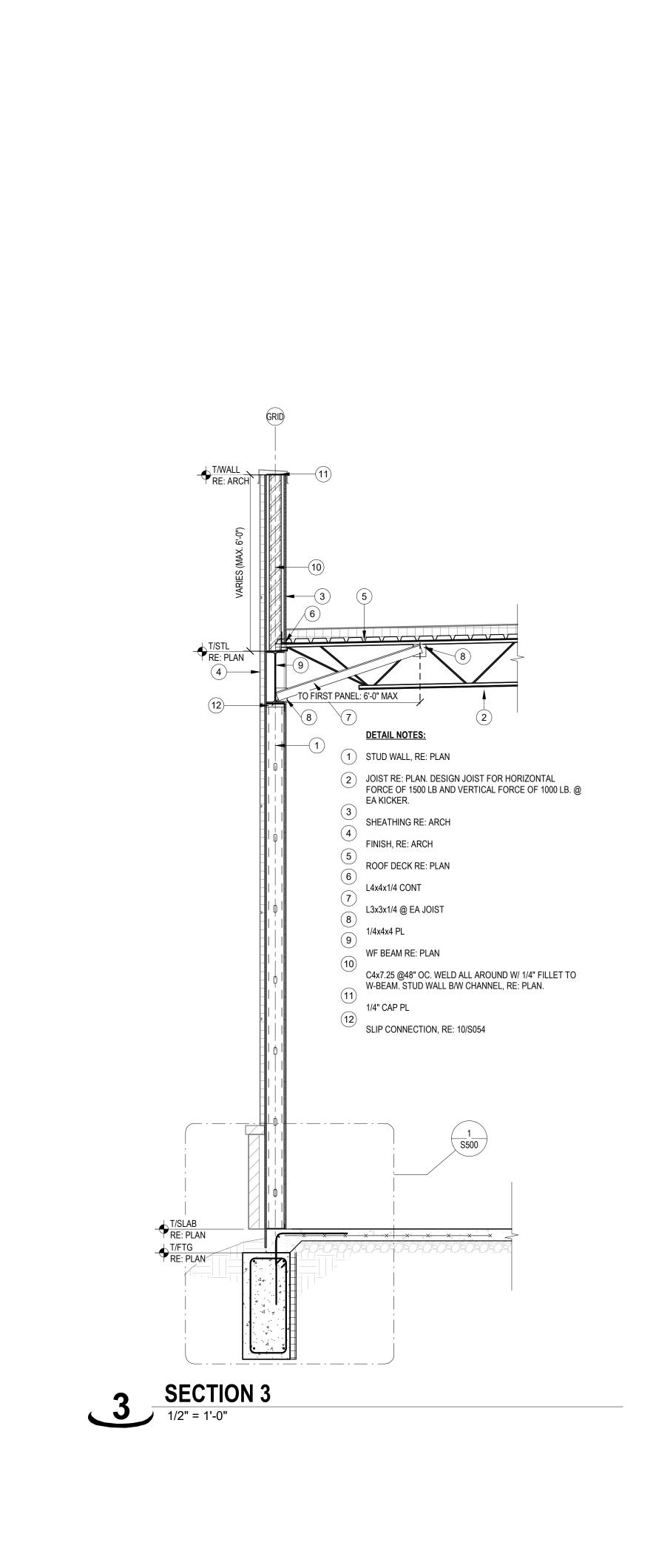
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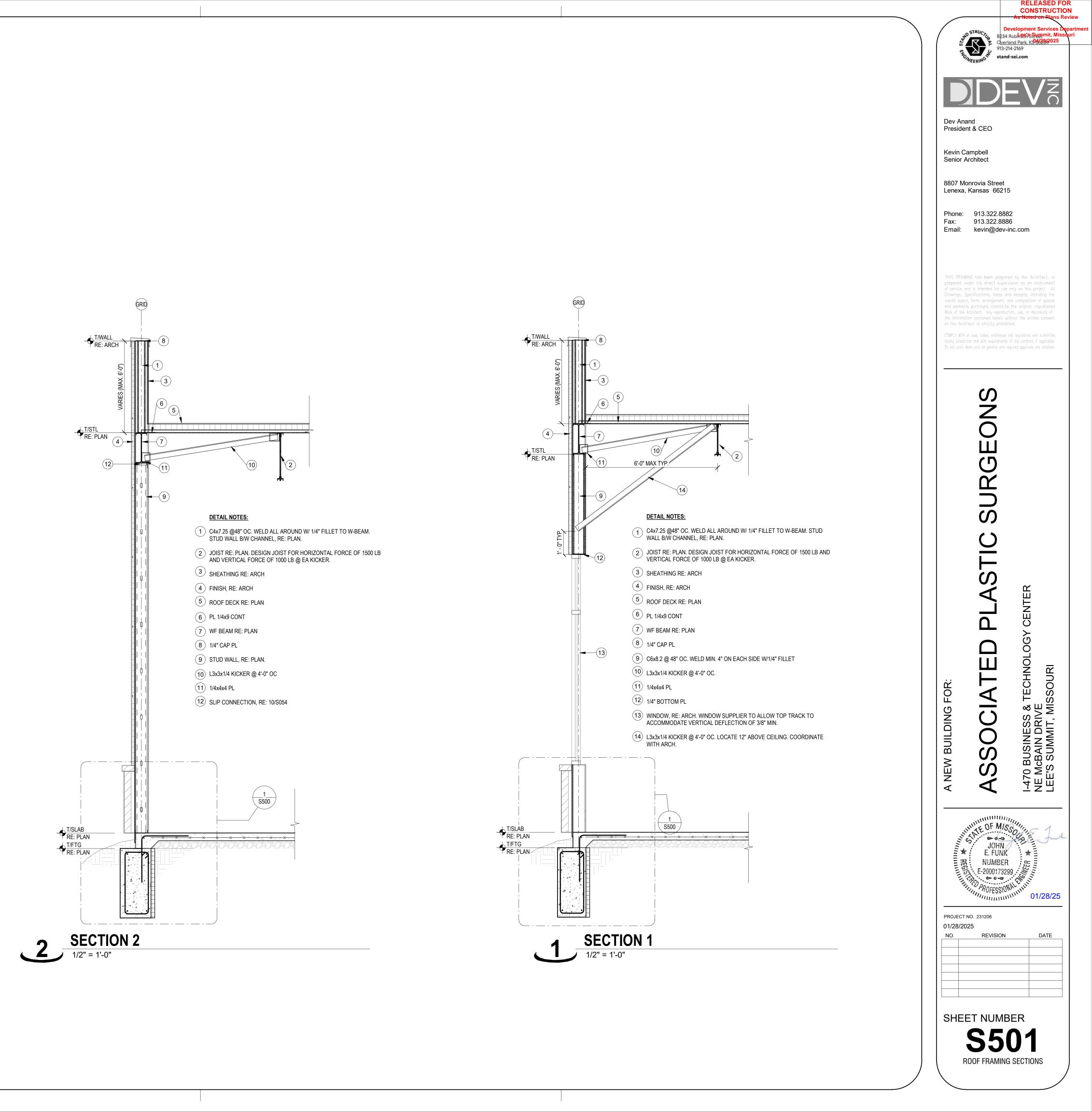
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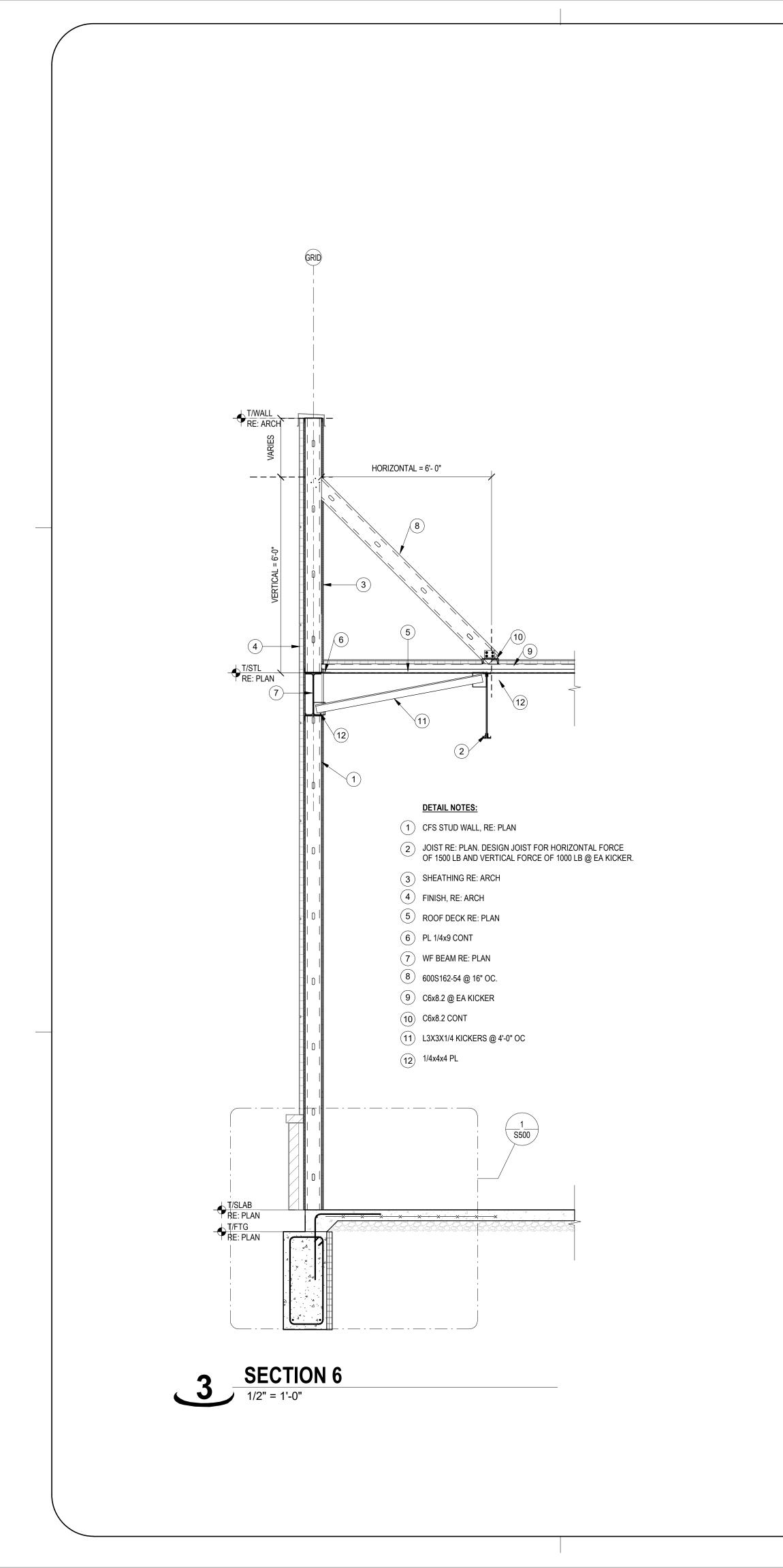


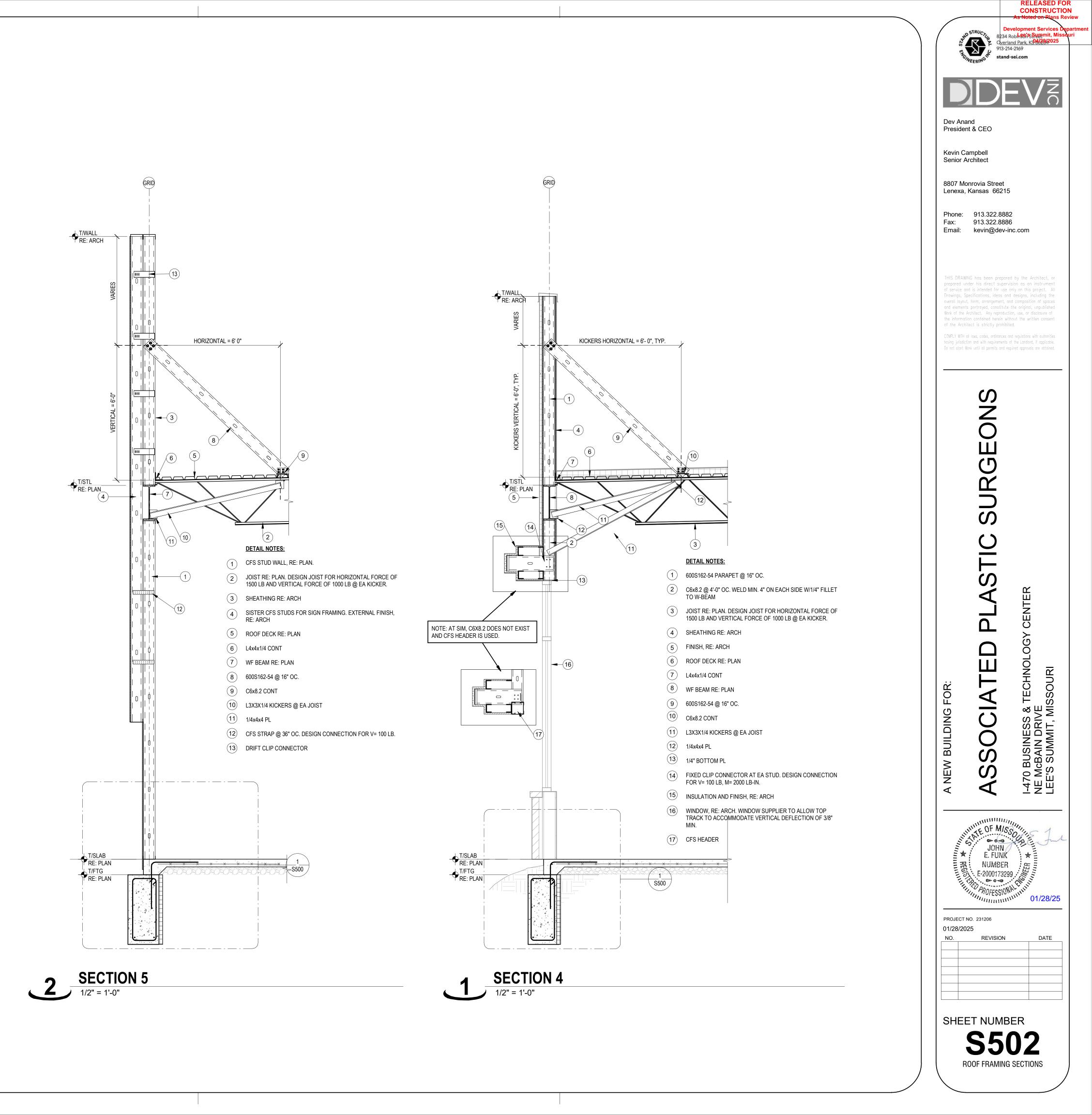


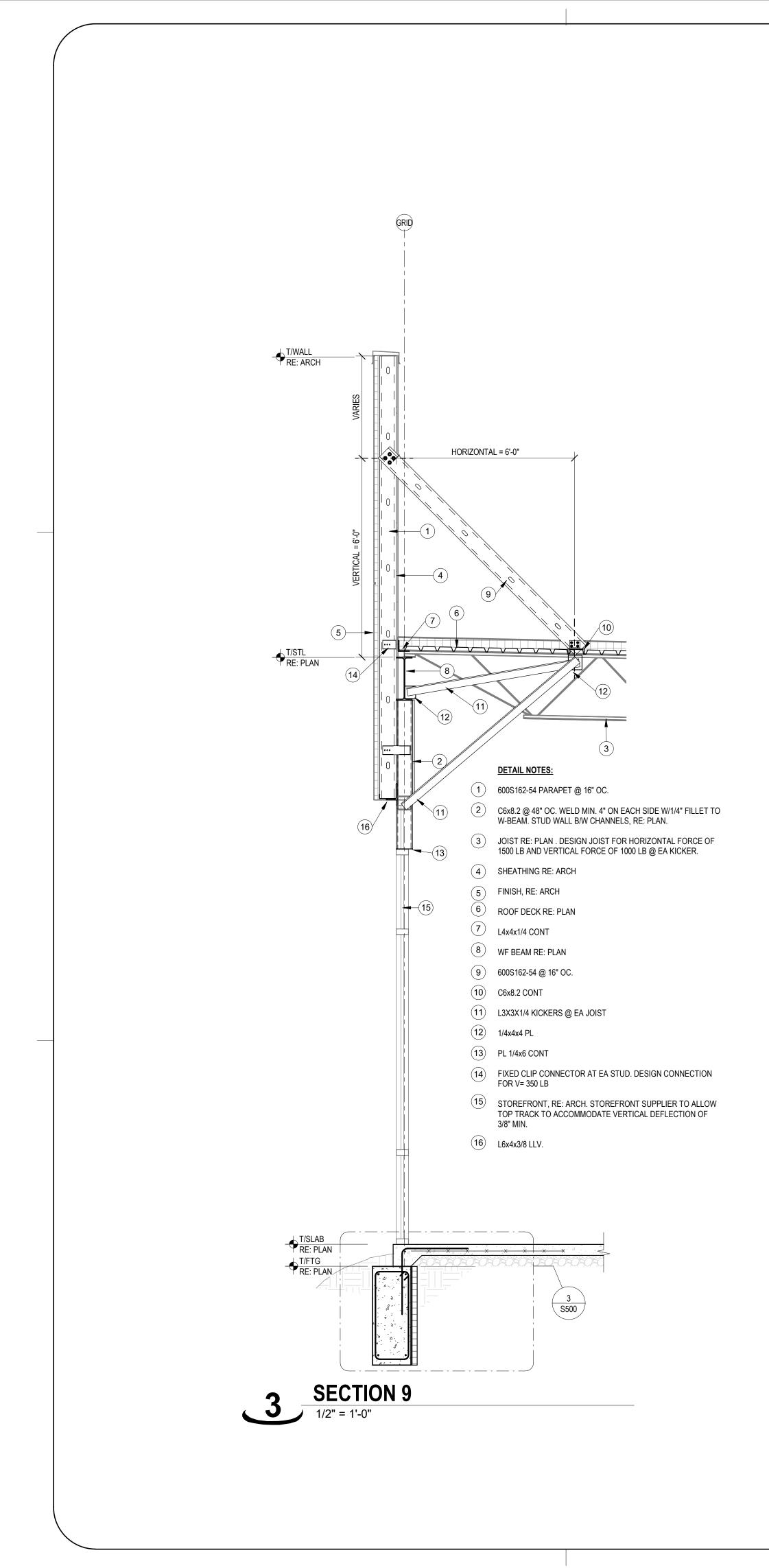


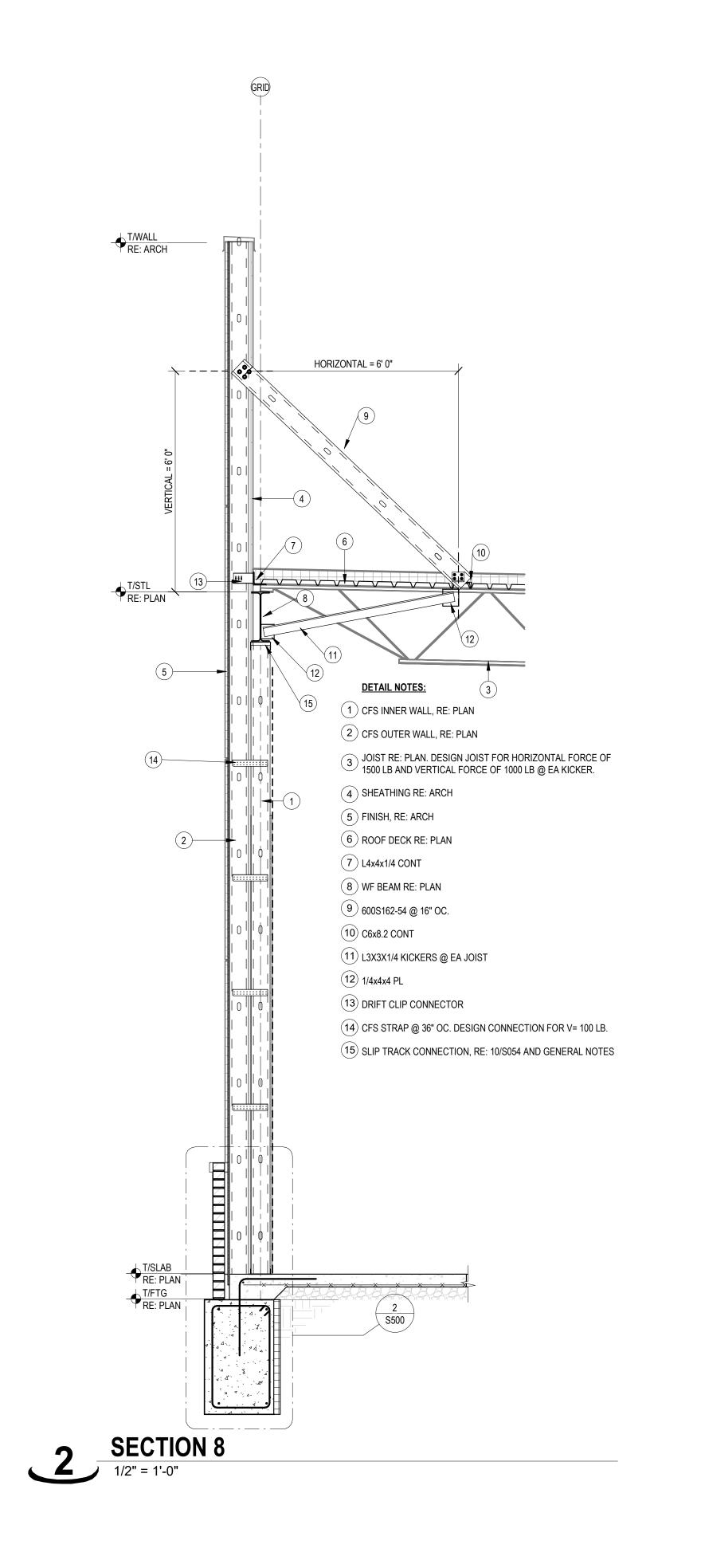


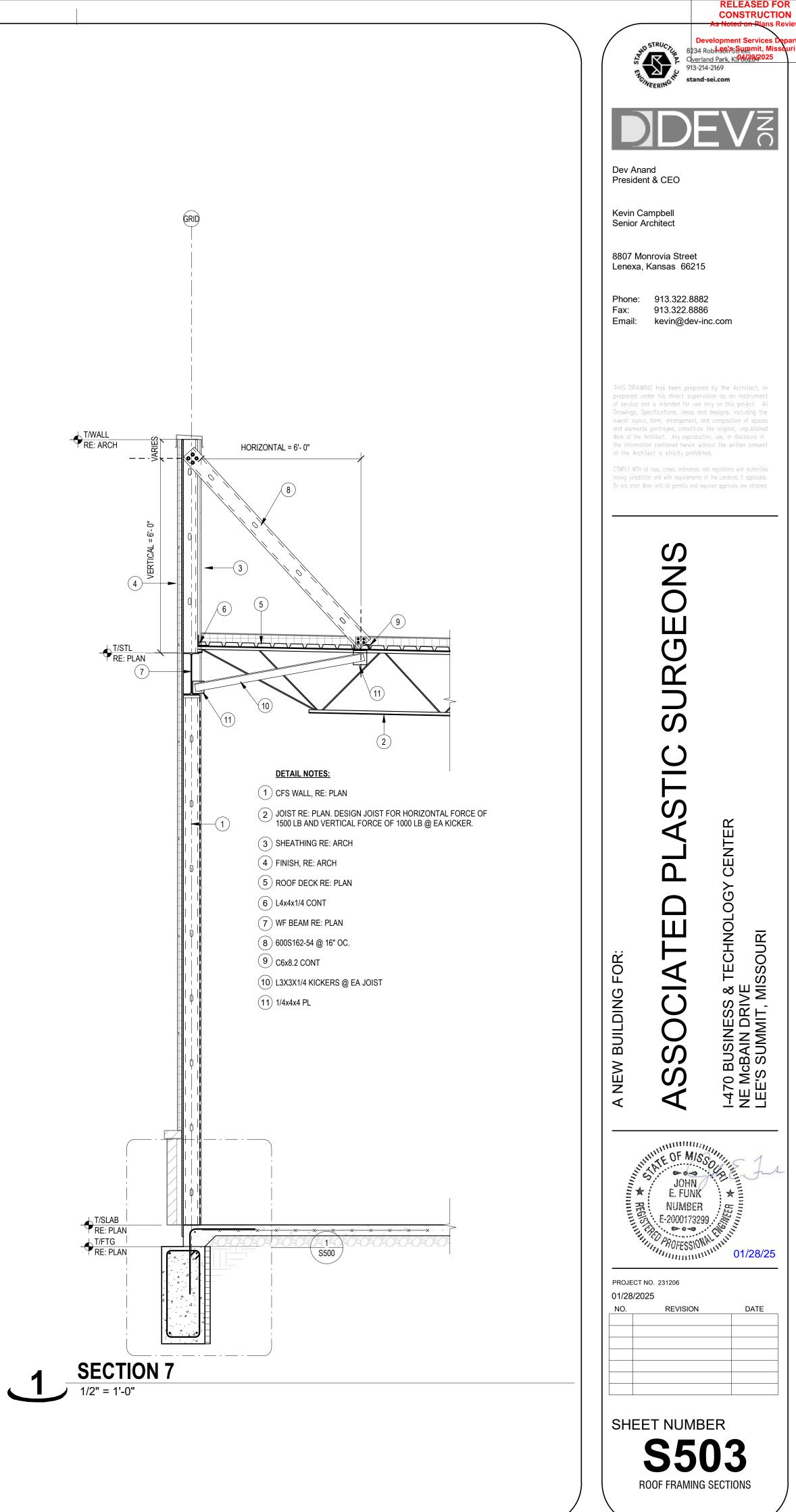


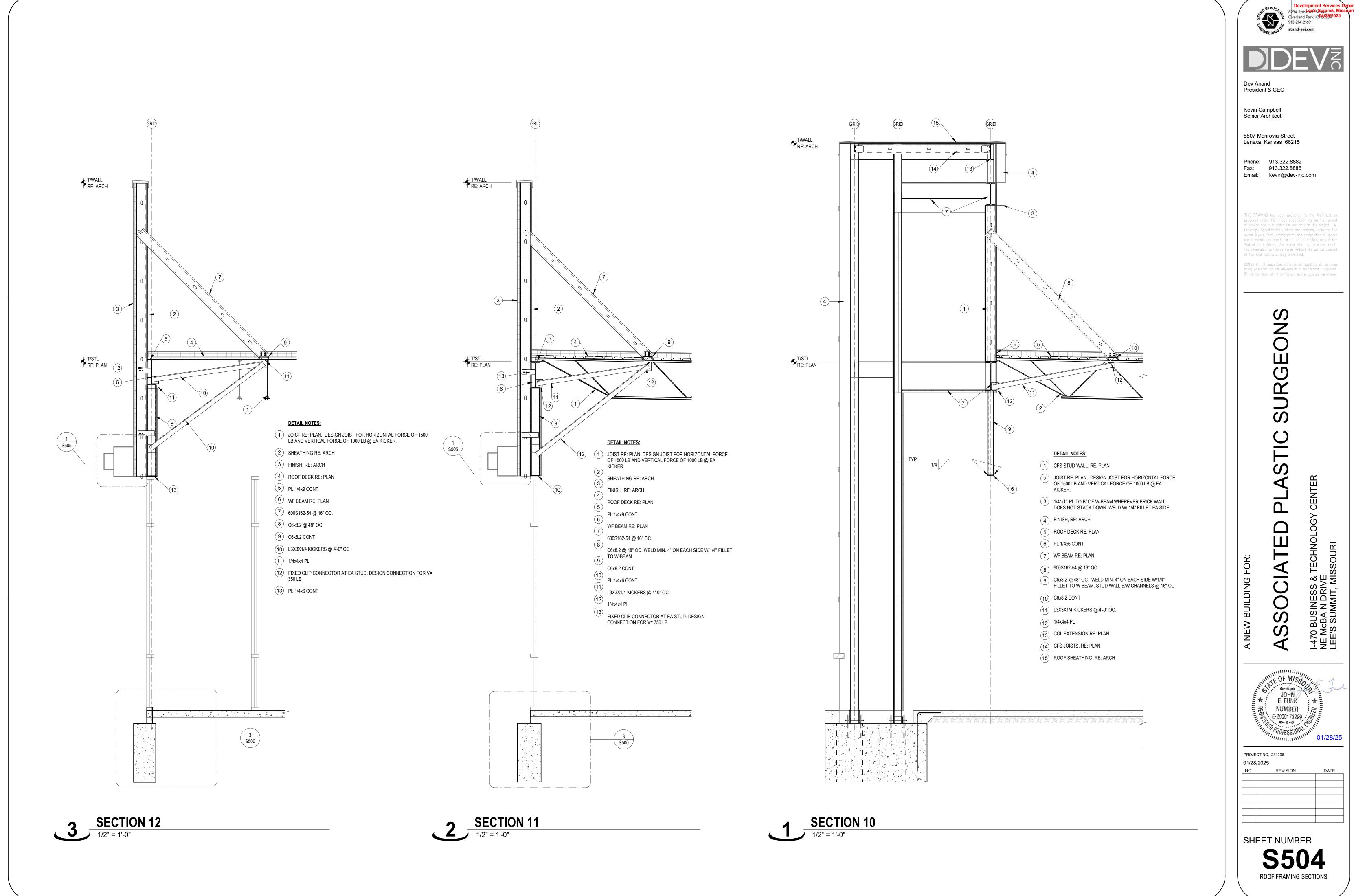








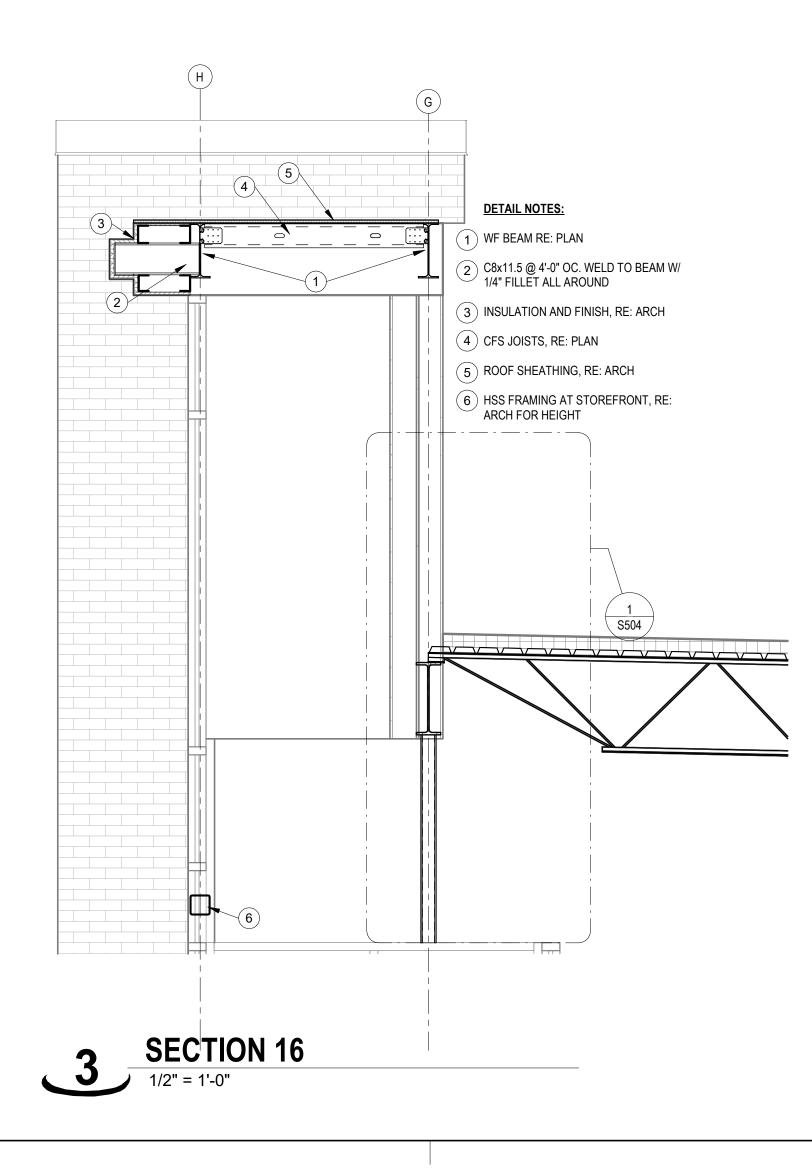


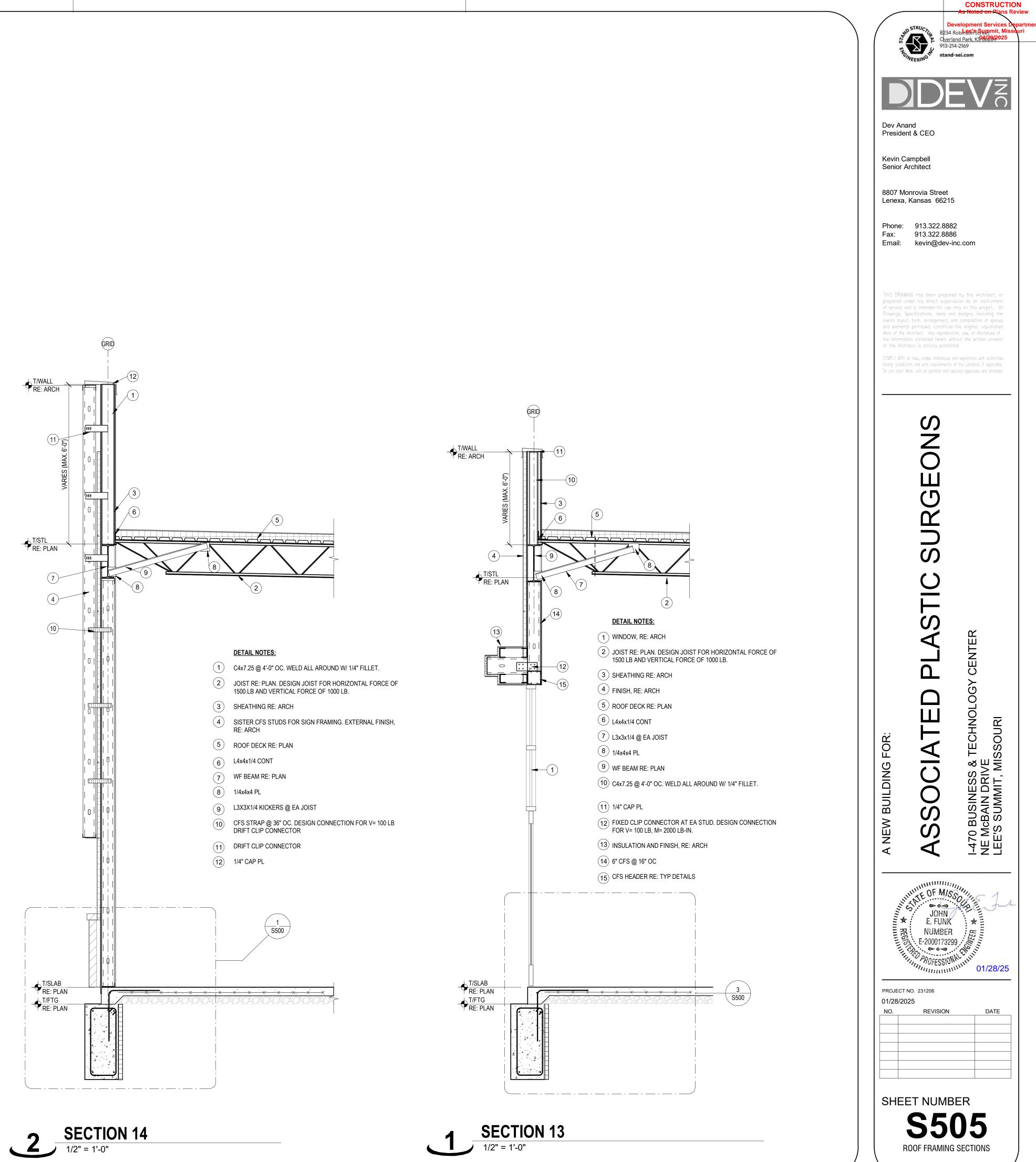


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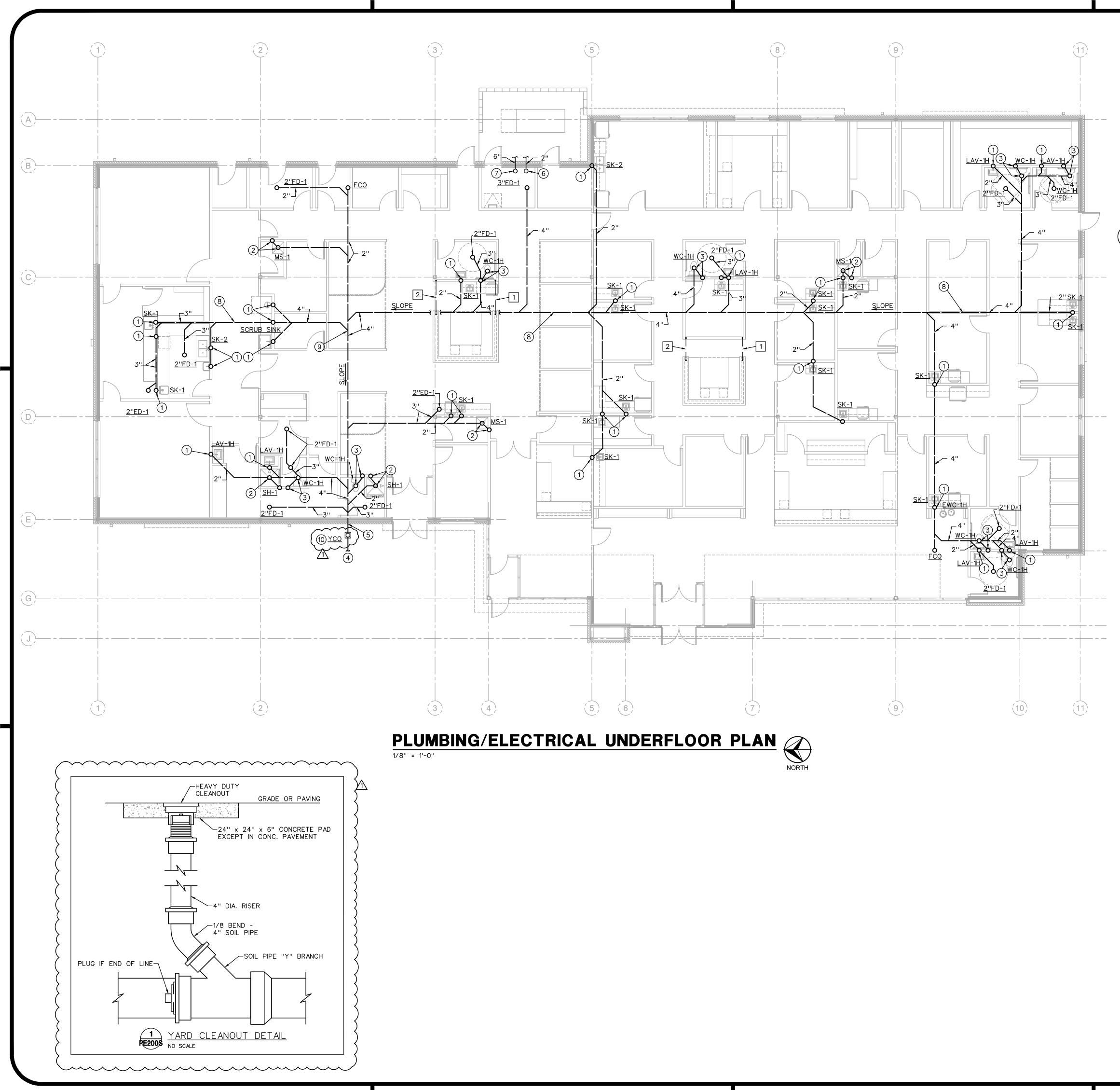
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PLUMBING PLAN NOTES (#)

- 1. 2" W UP TO FUTURE SINK, LAVATORY OR EQUIPMENT.
- 2. 2" W UP TO FUTURE MOP SINK OR SHOWER, 2" V OVER AND TURN UP INTO FUTURE WALL.
- 3. 4" S UP TO FUTURE WATER CLOSET, 2" V OVER AND TURN UP INTO FUTURE WALL.
- 4. SEE SITE UTILITIES PLAN FOR CONTINUATION. COORDINATE WITH CIVIL DRAWINGS
- 5. MINIMUM INVERT ELEVATION -42.125".
- 6. EXTEND 2" CW UP THROUGH FLOOR AND INSTALL BALL VALVE AND CAPPED CW SERVICE (FOR FUTURE EXTENSION).
- 7. EXTEND 6" FIRE SUPPRESSOR SERVICE UP THROUGH FLOOR AND INSTALL APPROVED GATE VALVE WITH BLIND FLANGE (FOR FUTURE EXTENSION).
- 8. SLOPE SANITARY AND WASTE PIPING A MINIMUM OF 1/8"/FT. (3" AND LARGER) AND 1/4"/FT (2-1/2" AND SMALLER).
- 9. SLOPE FROM THIS POINT TO THE EXTERIOR WALL SHALL BE A MINIMUM OF 1/4"/FT. 10. 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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Dev Anand President & CEO

Kevin Campbell Senior Architect

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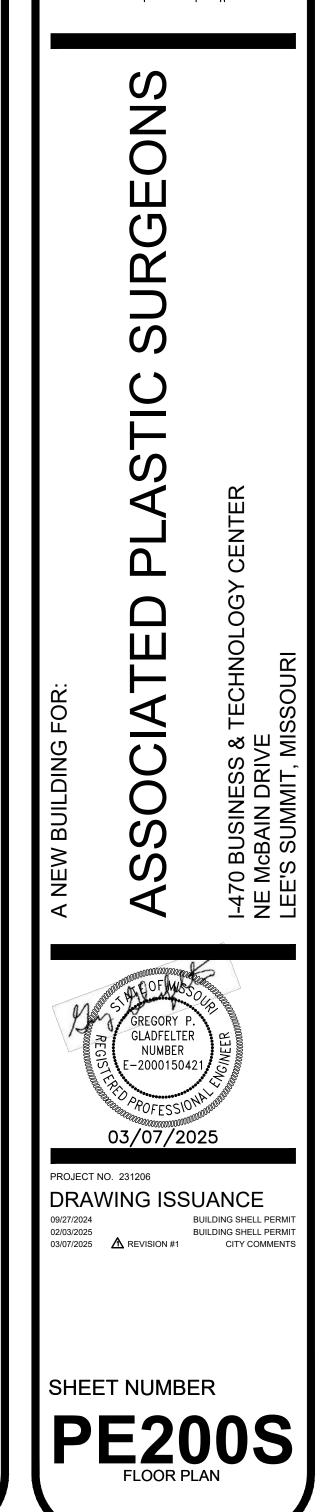
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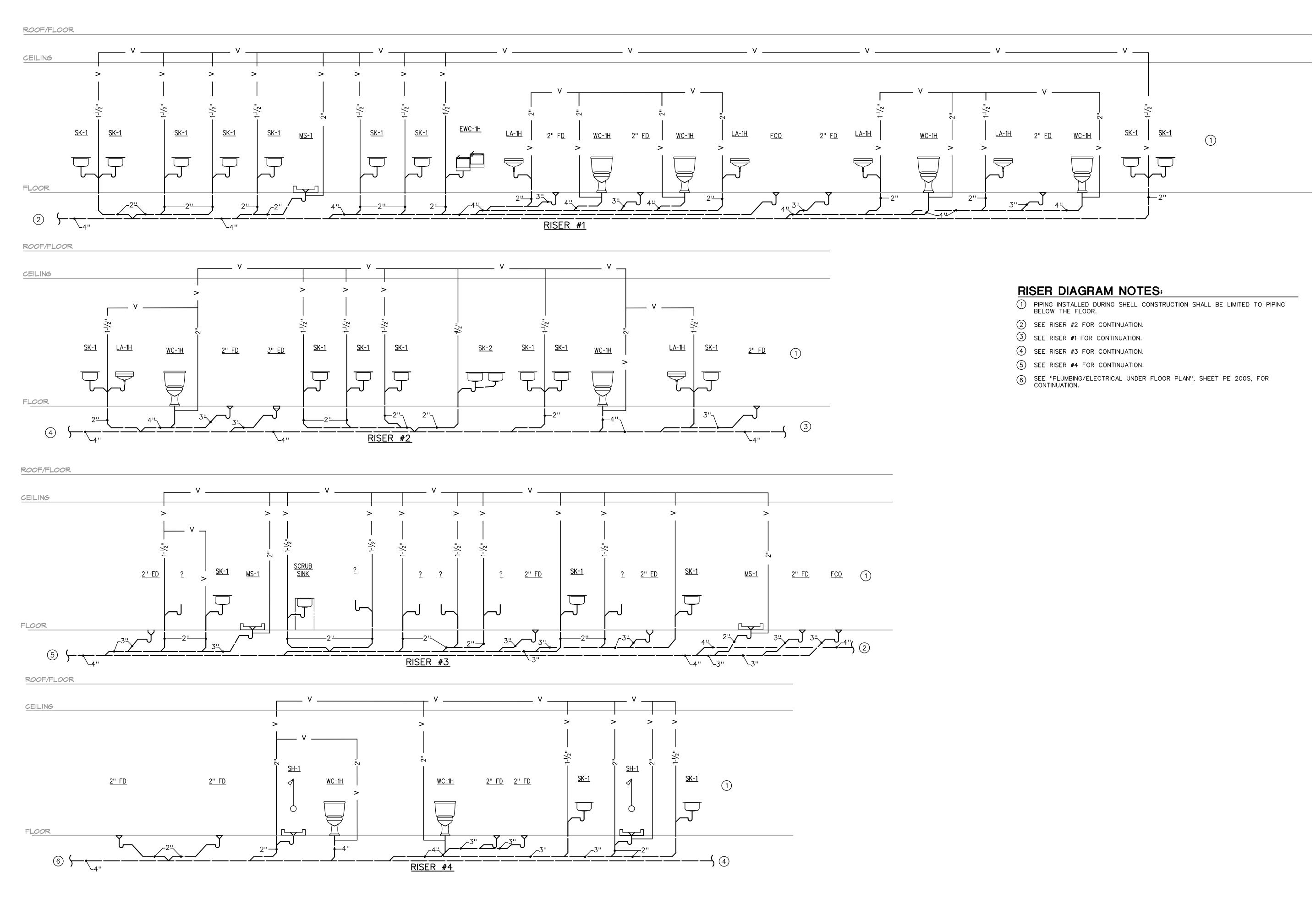
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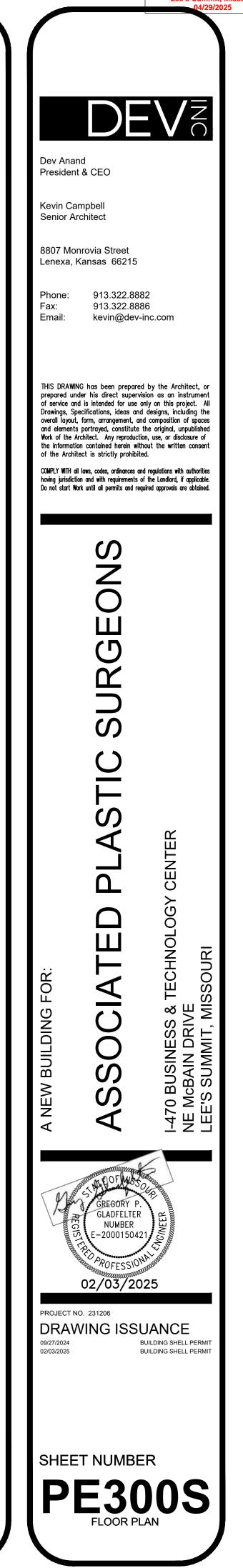
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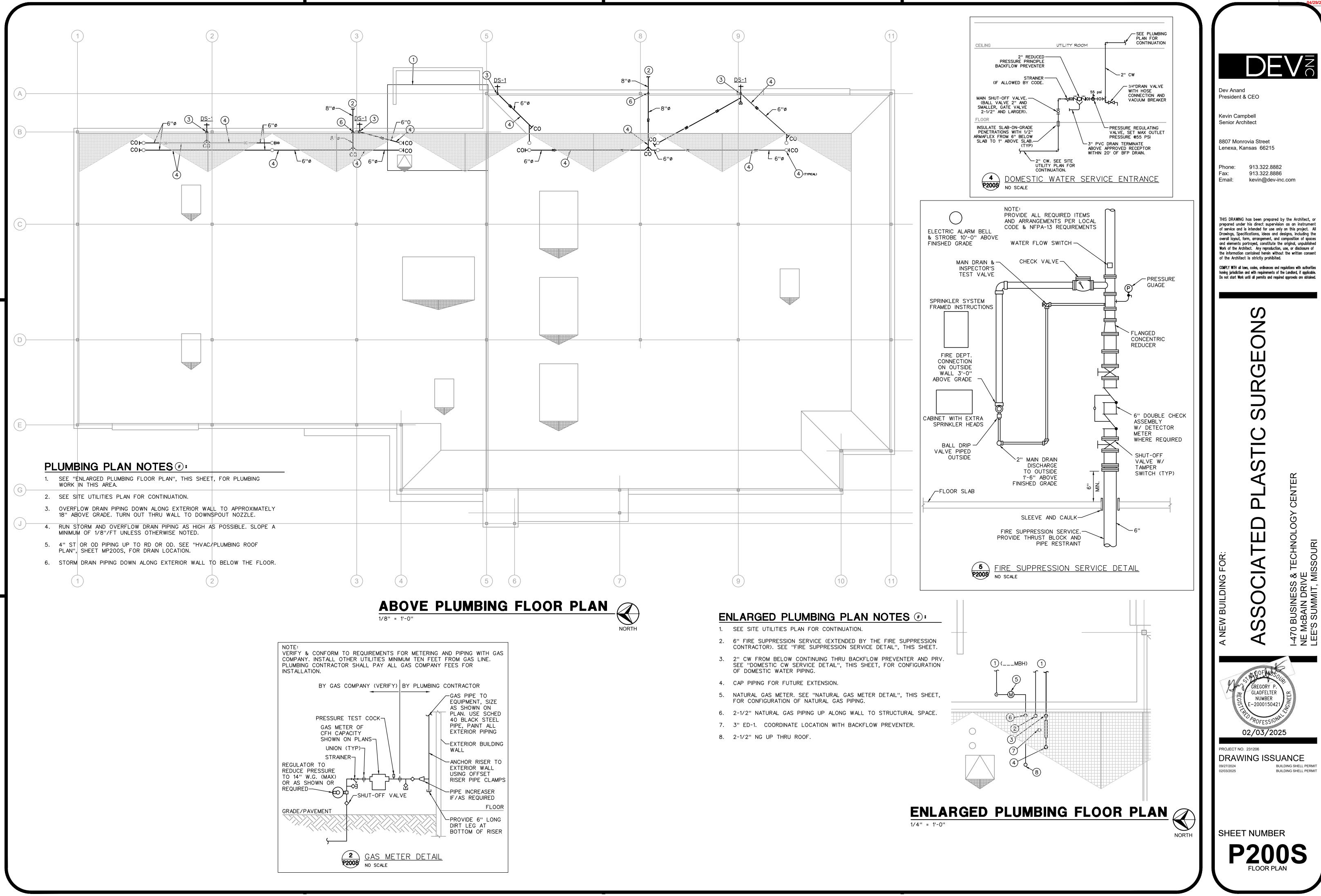
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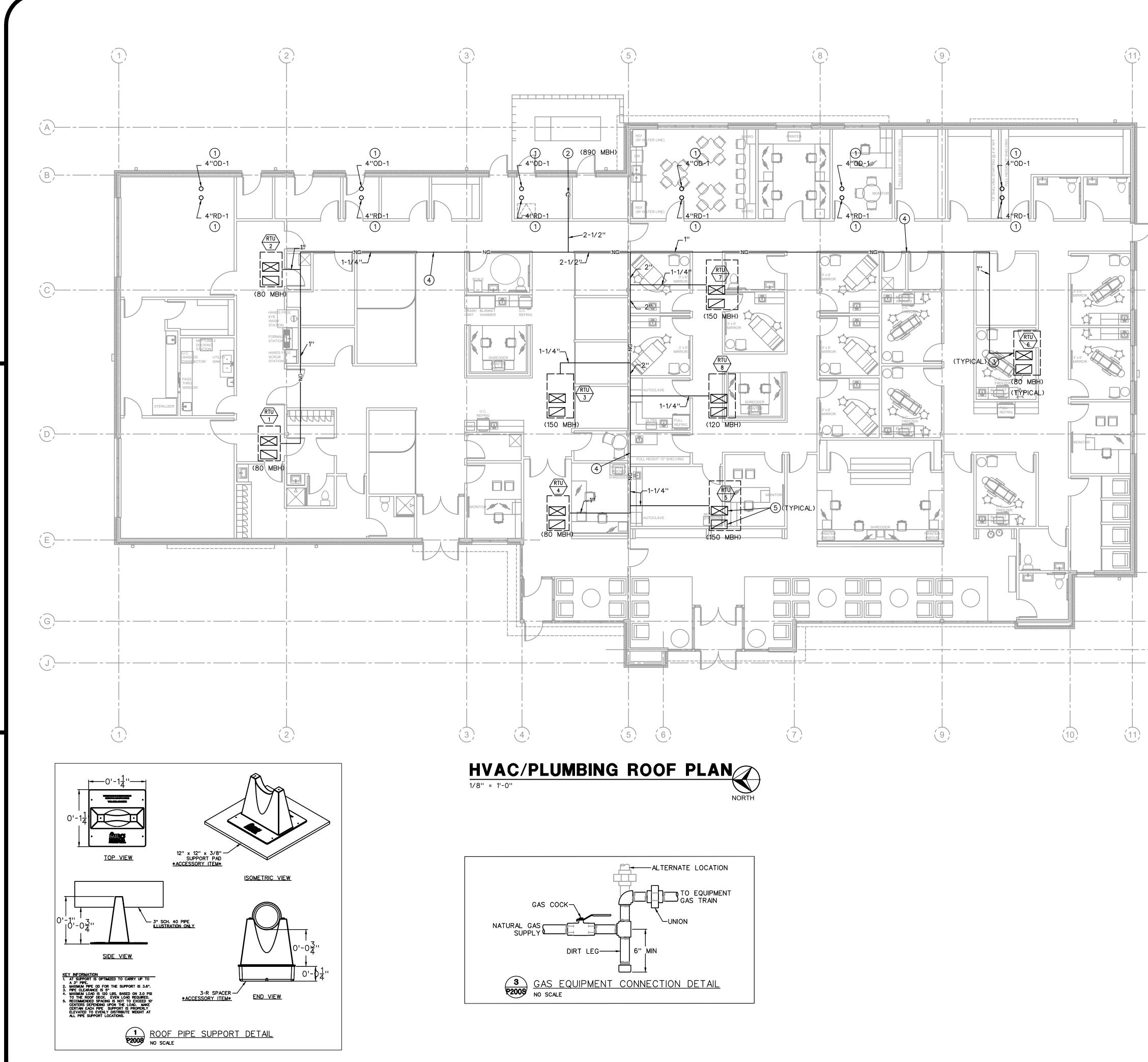
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Lee's Summit, Missouri



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Lee's Summit, Missouri 4/29/2025

HVAC/PLUMBING PLAN NOTES (#):

- 1. SEE "PLUMBING ABOVE FLOOR PLAN", SHEET P200S, FOR DRAIN PIPING TO RD OR OD. 2. 2-1/2" NG FROM BELOW.
- 3. SEE "GAS EQUIPMENT CONNECTION DETAIL", THIS SHEET, FOR PIPING CONNECTION AT RTU.
- 4. NG PIPING RUNNING ACROSS ROOF. SEE "ROOF PIPE SUPPORT DETAIL", THIS SHEET.



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ON PLANS	ON PLANS							
			INSULAT OR LINII	'ION				
DUCT	INSULA	ATION S	SCHEDU	E			NO	
	INTE	RNAL INSU	LATION	EXTER	RNAL INSU	JLATION		
	1/2"	1"	OTHER	1"	2"	OTHER		
LOW VELOCITY DUCTS:		-					_	
RETURN DUCTS		0						
SUPPLY DUCTS (RECT.)		0					+_	
SUPPLY DUCTS (ROUND) EXHAUST DUCTS					0		3	
	0			0				
OUTSIDE AIR DUCTS				0			-	
RELIEF DUCTS MEDIUM/HIGH VELOCITY DUCTS:	0						_	
ROUND SUPPLY				0				
FLAT OVAL SUPPLY				0				
NOTES:				Ũ				
 CONSTRUCTION DOCUMENTS INSULATION IS REQUIRED W RECTANGULAR DUCTS SHAI CONCEALED ROUND SUPPL UNCONDITIONED SPACES SI VAPOR BARRIER TO PREVE SURFACES. NO INSULATION CONDITIONED SPACES UNLE 	/ITHIN 6'- LL BE LIN Y AIR DU HALL BE INT CONE IS REQU ESS INDIC	O" OF T NED, ROU ICTS ANE INSULATI DENSATIO JIRED FO ATED OT	ERMINATI(JND DUCT D ROUND ED AS INE N FROM F R ROUND THERWISE.	ON POINT S SHALL SUPPLY DICATED FORMING SUPPLY	I OF EX BE WF AIR DUG AND SH ON COI AIR DU	CHAUST A RAPPED. CTS IN ALL INCL D METAL CT EXPO	UDE - SEC	
 AT CONTRACTORS OPTION, USED WHERE ROUND SUPP WALL DUCT SHALL BE LIN THE SPECIFICATIONS FOR 	LY AIR D X LINDLA	UCTS AF B SPIRO	RE REQUIF -SAFE SPI	RED TO RAL LOO	BE INSU	LATED. D	OUE	
 AT CONTRACTOR'S OPTION SUPPLY AIR DUCTS ARE R MANVILLE SPIRACOUSTIC P SPECIFICATIONS FOR ADDIT 	EQUIRED LUS, OR	TO BE I APPROVI	NSULATED ED EQUAL	DUCT	LINER S	SHALL BE	JO	
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PLUMBING SPECIFICATION

- 1. INSTALLATION SHALL BE IN ACCORDANCE WITH THE PLUMBING CODE, NFPA 90A AND 101 AND ALL STAT ORDINANCES AND REGULATIONS.
- 2. ALL WATER BEARING PIPING SHALL BE SLOPED FOR VALVES AT LOW POINTS.
- 3. DRAINAGE PIPING SHALL BE SLOPED IN ACCORDANC THAN 1/8" PER FOOT FOR 3" AND LARGER PIPING 2-1/2" AND SMALLER PIPING. ALL INVERT ELEVAT WITH THE STRUCTURAL FOOTINGS.
- 4. PROVIDE DIELECTRIC UNIONS AT ALL CONNECTIONS
- 5. CAULK AND SEAL ALL DUCT AND PIPING PENETRAT DEMISING WALLS.
- 6. ABOVE GROUND WASTE AND VENT PIPING SHALL B SOLVENT CEMENT JOINTS, EXCEPT USE STANDARD AIR PLENUMS. VENT PIPING MAY BE SCHEDULE 40 SCREWED JOINTS. PAINT ALL EXTERIOR PIPING WIT
- 8. SERVICE VALVES FOR WATER PIPING SYSTEMS UP 150 LB. BALL VALVE WITH BRONZE CHROME PLATE NIBCO S-585-70.
- 9. COPPER DOMESTIC WATER PIPING SHALL BE INSUL WITH ALL SERVICE JACKET OR COMPARABLE UNICE SMOKE/FLAME RATING OF 25/50. WHEN INSTALLE EXTERIOR WALL, THE INSULATION SHALL BE 1-1/2" SHALL BE LOCATED ON THE INTERIOR SIDE OF TH
- 10. NATURAL GAS PIPING (ABOVE GROUND) SHALL BE WITH THREADED JOINTS. CONNECT USING JOINT C NATURAL GAS PIPING. ALL EXPOSED BLACK STEE BE PROTECTED WITH A RUST INHIBITING COATING PLUMBING CODE.
- 11. SERVICE VALVES FOR WATER PIPING SYSTEMS UP 150 LB. BALL VALVE WITH BRONZE CHROME PLATE NIBCO S-585-70.
- 12. GAS SERVICE VALVES TO BE LUBRICATED PLUG C CONNECTIONS TO EQUIPMENT SHALL HAVE SERVICE 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.

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NO.	LOCATION	MANUFACTURER	MODEL NO.	ARRANGEMENT	DISCHARGE DRY BULB ECONOMIZER		CFM	MIN. O.A.	EXT. S.P. IN. W.G.	F AN TYPE	F AN SIZE	RPM	E				
RTU-1	ROOF	TRANE	YHK036A4SOL	HORIZ.	DOWN	Y	1325	-	1.0	-	-	879	T				
RTU-2	ROOF	TRANE	YHK036A4SOL	HORIZ.	DOWN	Y	1340	-	1.0	-	-	884	T				
RTU-3	ROOF	TRANE	YSK150A4S0L	HORIZ.	DOWN	Y	4000	-	0.5	-	-	1341	T				
RTU-4	ROOF	TRANE	YHK036A4SOL	HORIZ.	DOWN	Y	1390	-	0.5	-	-	901	T				
RTU-5	ROOF	TRANE	YSK150A4S0L	HORIZ.	DOWN	Y	5235	-	0.50	-	-	1686	T				
RTU-6	ROOF	TRANE	YHK048A4SOL	HORIZ.	DOWN	Y	1650	-	0.50	-	-	725	T				
RTU-7	ROOF	TRANE	YSK150A4S0L	HORIZ.	DOWN	Y	4330	-	0.50	-	-	1432	T				
RTU-8	ROOF	TRANE	YSK102A4S0L	HORIZ.	DOWN	Y	3315	-	0.50	-	-	1233					
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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, COOLIN6 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.

PI	LUMBING SPECIFICATION	M	ECHANICAL 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.	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.	ALL WATER BEARING PIPING SHALL BE SLOPED FOR DRAINAGE WITH BALL DRAIN VALVES AT LOW POINTS.	2.	COORDINATE EXACT LOCATIONS AND ORIENTATION OF EQUIPMENT WITH ARCHITECTURAL AND STRUCTURAL REQUIREMENTS. EQUIPMENT SHALL BE SCREENED IN ACCORDANCE WTIH LOCAL JURISDICTION REQUIREMENTS AND AS	
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		SHOWN ON ARCHITECTURAL DRAWINGS.	
	2-1/2" AND SMALLER PIPING. ALL INVERT ELEVATIONS SHALL BE COORDINATED WITH THE STRUCTURAL FOOTINGS.	3.	DUCTWORK FABRICATION AND INSTALLATION SHALL BE IN ACCORDANCE WITH SMACNA STANDARDS.	
4.	PROVIDE DIELECTRIC UNIONS AT ALL CONNECTIONS BETWEEN DISSIMILAR METALS.	4.	ALL DUCTWORK SHALL BE SHEET METAL, CONSTRUCTED TO SMACNA STANDARDS, MINIMUM OF 2'' WG PRESSURE CLASS AND SEAL CLASS 'C' MINIMUM. ALL	
5.	CAULK AND SEAL ALL DUCT AND PIPING PENETRATIONS OF EXTERIOR OR DEMISING WALLS.		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.	(
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.	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.	
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.	6.	PROVIDE FLEXIBLE FABRIC CONNECTORS AT ALL DUCTWORK CONNECTIONS TO ROTATING EQUIPMENT. CONNECTORS EXPOSED TO SUNLIGHT SHALL BE MADE OF UV RESISTANT MATERIAL.	I
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	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.	F
	SHALL BE LOCATED ON THE INTERIOR SIDE OF THE BUILDING WALL INSULATION.	8.	ALL ROOF MOUNTING, FLASHINGS AND PENETRATION WORK ASSOCIATED WITH MECHANICAL AND PLUMBING WORK SHALL BE DONE IN STRICT ACCORDANCE WITH	
10.	NATURAL GAS PIPING (ABOVE GROUND) SHALL BE SCHEDULE 40 BLACK STEEL WITH THREADED JOINTS. CONNECT USING JOINT COMPOUND SUITABLE FOR		THE ROOFING MANUFACTURER'S WARRANTY REQUIREMENTS.	
	NATURAL GAS PIPING. ALL EXPOSED BLACK STEEL NATURAL GAS PIPING SHALL BE PROTECTED WITH A RUST INHIBITING COATING IN ACCORDANCE WITH THE PLUMBING CODE.	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	
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.		OPERATING CONDITIONS OR 5 PSI FOR 2 HOURS. THERE SHALL BE NO MEASURABLE DROP DURING THE TEST PERIOD.	
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	10.	TEST AND BALANCE ALL SYSTEMS.	

IT SCHEDULE (GAS-FIRED) COOLING HEATING ELECTRICAL INPUT OUTPUT STAGES VOLT EVAP.AMBIENTEDBEWBLDBLWBTOTALSENS.MAXHP°F°F°F°F°FMBHMBHFPM WEIGHT | REMARKS UNIT EER ' Ø | HZ | MCA | MOCP | STAGES MBH 1.0 105 | 72.3 | 64.5 | 57.8 | 55.8 | 33.4 | 19.8 13.0 80 | 64.8 | 60 | 11.0 | 15.0 | 807 1-7,9 480 .3 1-7,9 1.0 | 105 | 72.4 | 64.7 | 58.1 | 56.1 | 33.6 | 18.7 13.0 80 64.8 460 60 | 11.0 | 15.0 | 807 105 | 84.2 | 69.7 | 60.3 | 58.4 | 137.2 | 95.3 1-9 5.0 10.8 150 | 121.5 | 460 60 33 45 1326 2 1-7 0.75 | 105 | 77.7 | 65.7 | 59.3 | 57.28 | 34.9 | 26.47 | 13.0 80 64.8 460 60 | 11.0 | 15.0 | 807 2 1-8 105 | 77.0 | 64.8 | 59.8 | 56.71 | 135.11 | 100.7 5.0 | 10.8 150 | 121.5 | 460 60 | 33 | 45 | 1451 2 1-8 3.0 105 | 76.8 | 66.3 | 57.8 | 56.5 | 45.50 | 30.60 | 13.0 80 64.8 460 60 16 | 20 | 1052 2 $(1-8)^{1}$ 5.0 105 | 78.5 | 66.3 | 59.26 | 56.46 | 138.01 | 93.6 | 10.8 150 | 121.5 | 2 460 60 33 45 1451 105 | 80 | 67 | 58.5 | 57.3 | 102.9 | 75.7 | 1-8 3.0 11.0 | 120 | 97.2 | 2 480 3 60 26 35 1091

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.

LUMBING DRAINAGE FIXTURE SCHEDULE

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.

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.

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.

DOWNSPOUT NOZZLES (DS-1) WADE #3940-3 ROUGH BRONZE DOWNSPOUT NOZZLE WITH FLANGE TO SECURE NOZZLE TO SECURE TO WALL. THREADED CONNECTIONS.

FINISHED FLOOR CLEANOUTS; (FFCO) WADE #6000-1-2-S 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.

FINISHED WALL CLEANOUTS: (FWCO) WADE #8560, 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

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.



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04/29/202

Lee's Summit,

Dev Anand President & CEO

Kevin Campbell Senior Architect

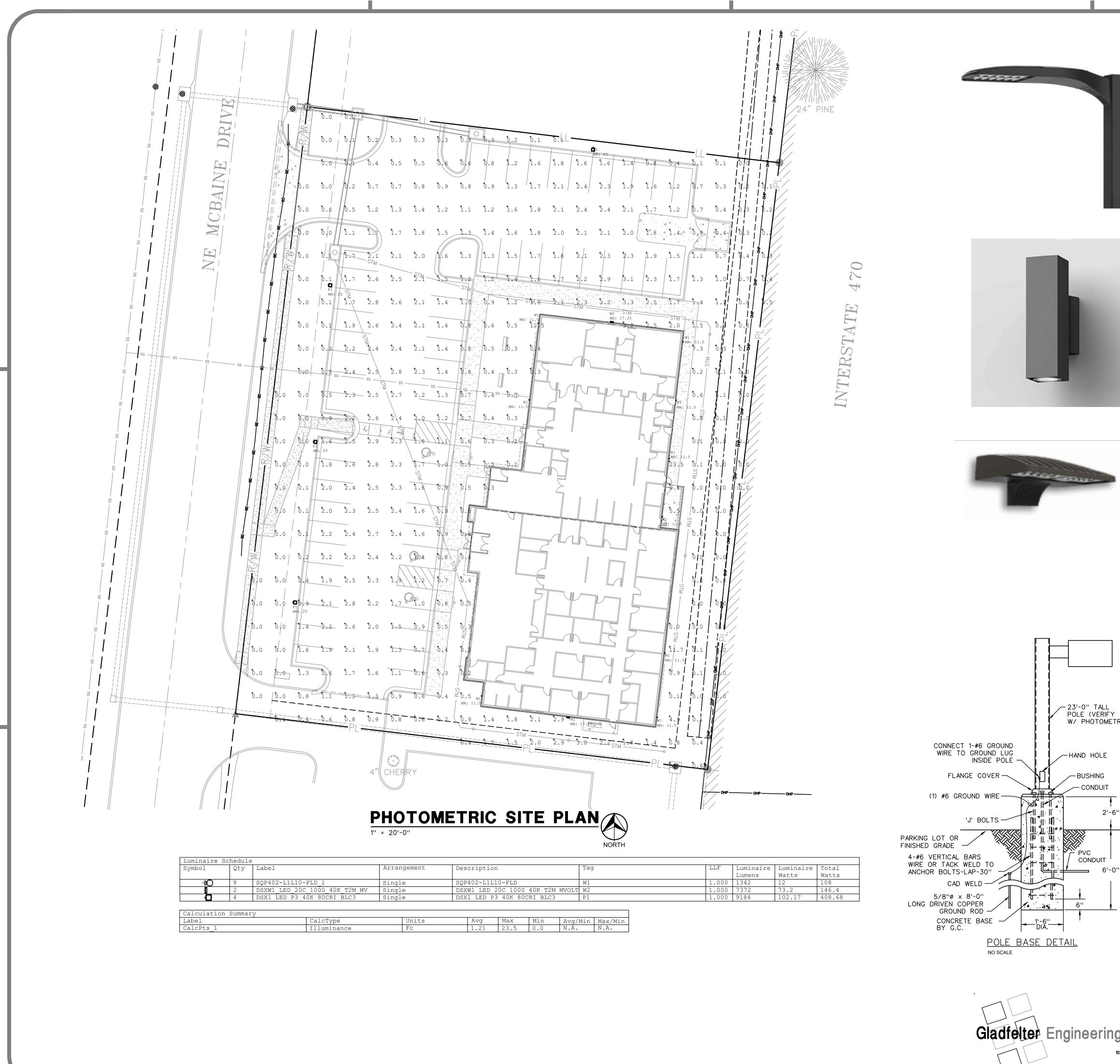
8807 Monrovia Street Lenexa, Kansas 66215

913.322.8882 Phone: 913.322.8886 Fax: Email: kevin@dev-inc.com

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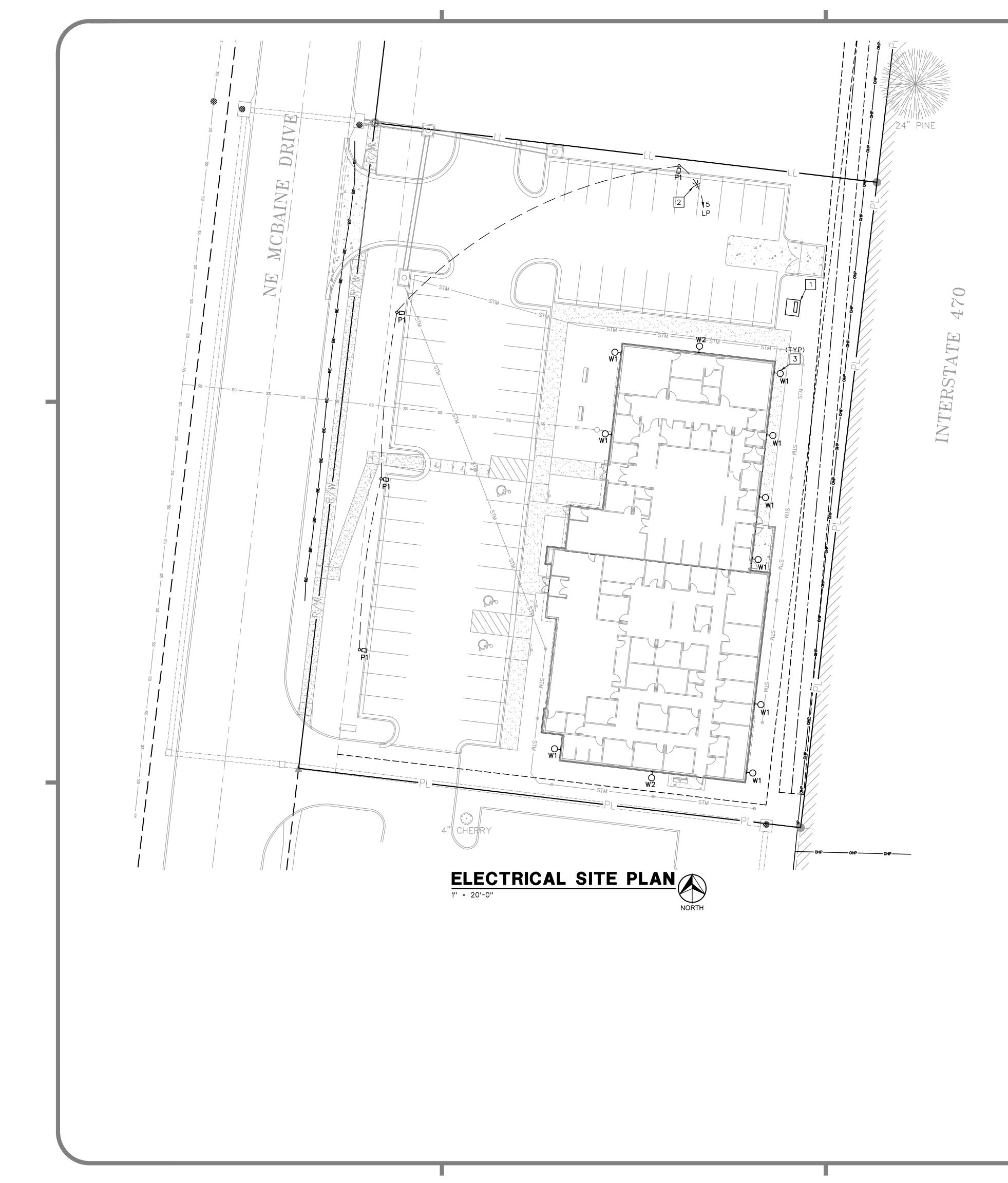
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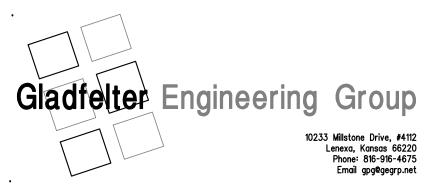




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P1	Dev Anand President & CEO Kevin Campbell Senior Architect 8807 Monrovia Stre Lenexa, Kansas 66 Phone: 913.32 Fax: 913.32	
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Gladfelter Engineering Group assumes design responsibility for this project 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 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.		MBER 1.0 Plan





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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.



Dev Anand President & CEO

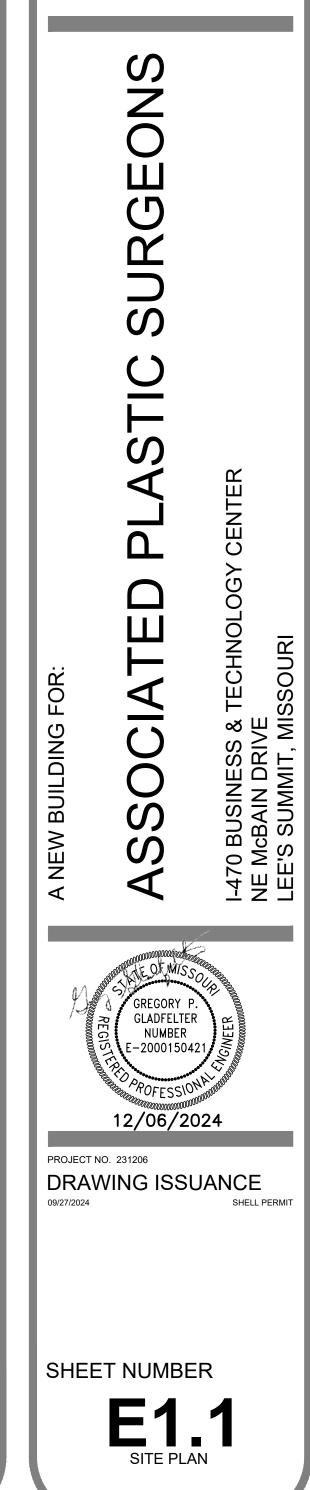
Kevin Campbell Senior Architect

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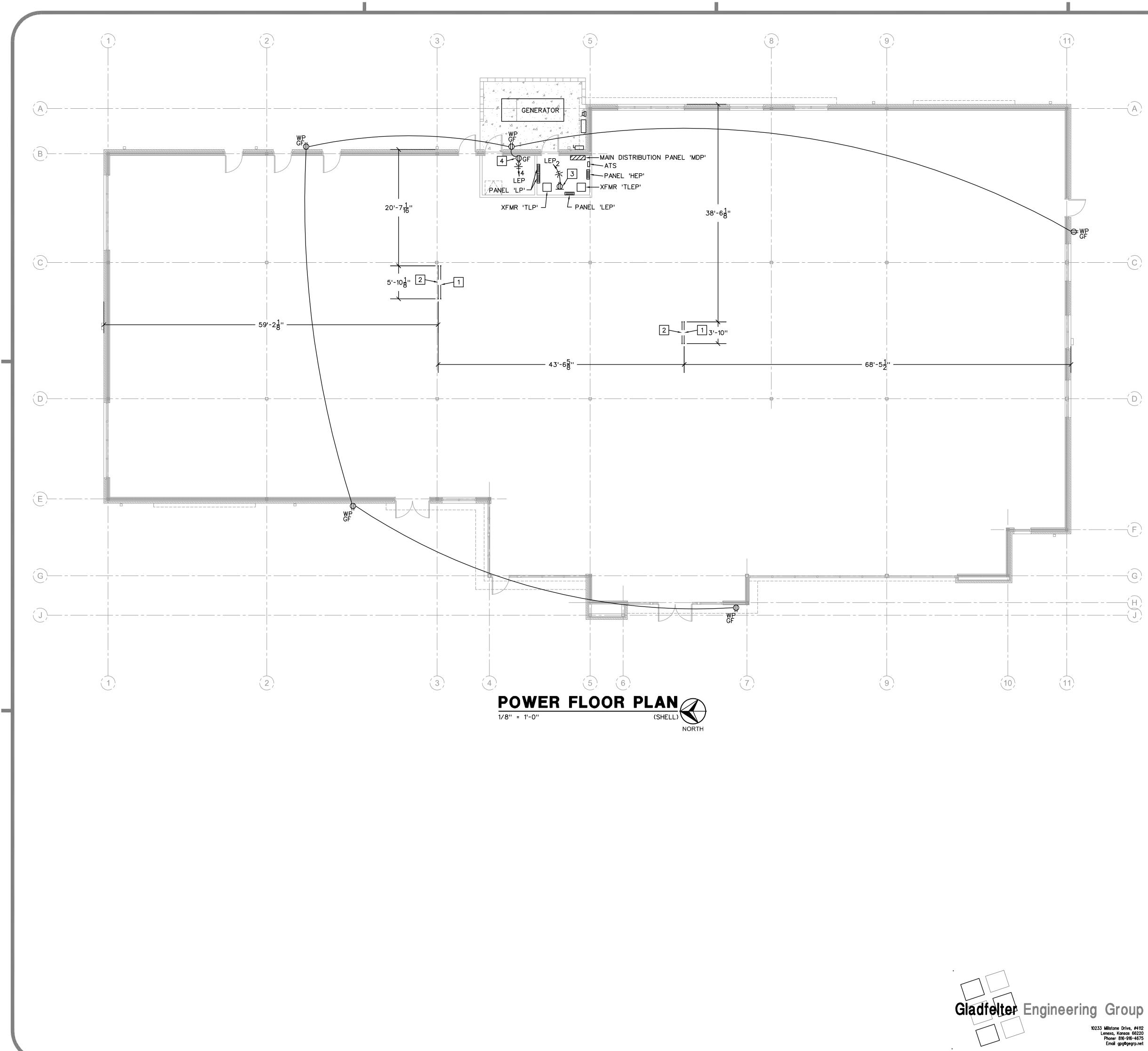
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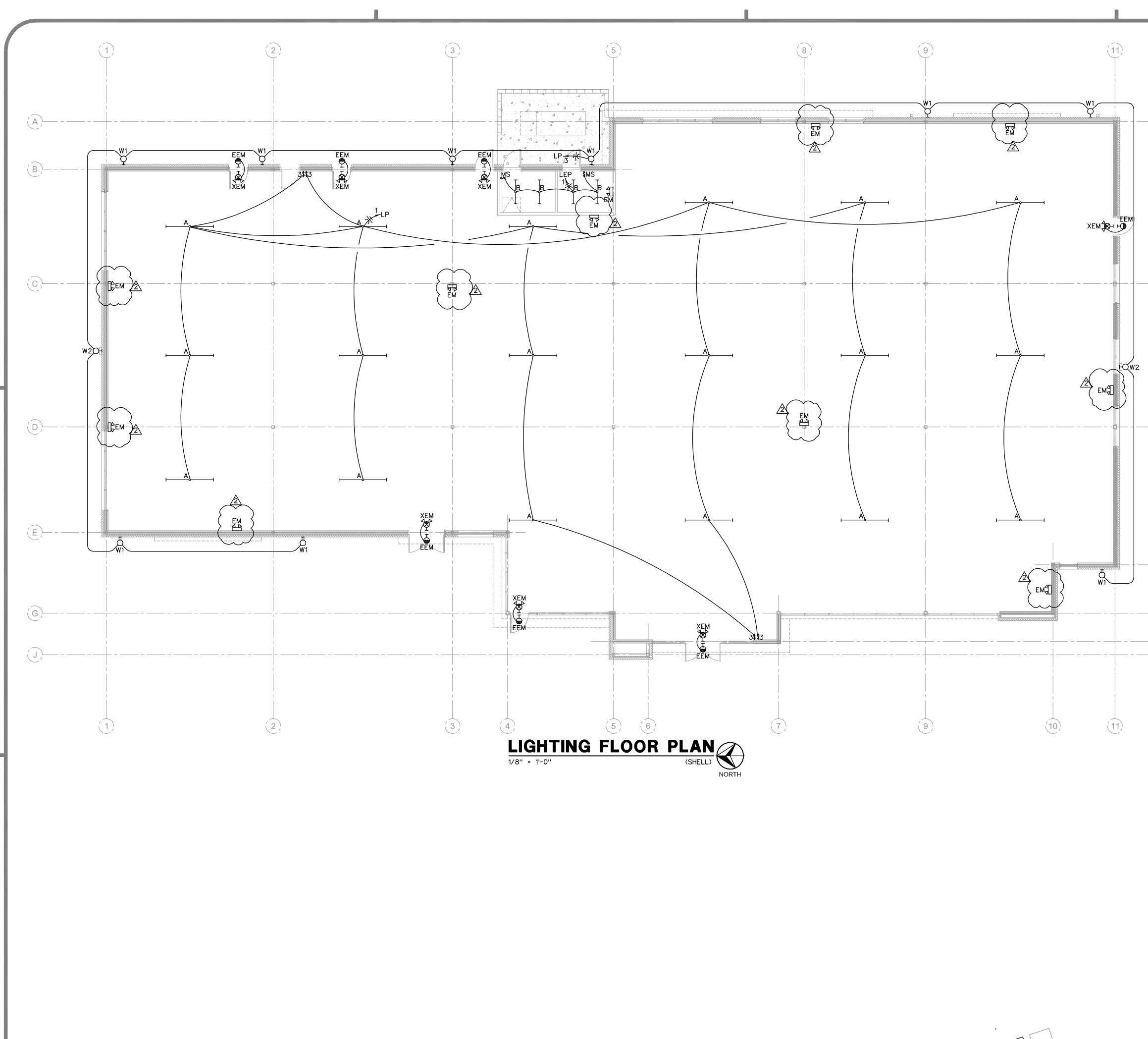
RELEASED FOR CONSTRUCTION As Noted on Plans Review ment Serv Lee's Summit, M POWER FLOOR PLAN NOTES 04/29/202 1. 1" CONDUIT INSTALLED BELOW GRADE FOR DATA CABLES AT NURSES STATION. STUB CONDUIT UP 6" AT BOTH ENDS, INSTALL PULL-STRING AND CAP AT BOTH ENDS FOR FUTURE USE. VERIFY EXACT LOCATION WITH ARCHITECTURAL TENANT DRAWINGS. 2. 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 Dev Anand 3 President & CEO OF PANEL. 4. INSTALL OUTLET BOX FOR WIRING DEVICE AT 42" AFF. Kevin Campbell Senior Architect 8807 Monrovia Street Lenexa, Kansas 66215 913.322.8882 Phone: Fax: 913.322.8886 Email: kevin@dev-inc.com THIS DRAWING has been prepared by the Architect, or prepared under his direct supervision as an instrument of service and is intended for use only on this project. All Drawings, Specifications, ideas and designs, including the overall layout, form, arrangement, and composition of spaces and elements portrayed, constitute the original, unpublished Work of the Architect. Any reproduction, use, or disclosure of the information contained herein without the written consent of the Architect is strictly prohibited. COMPLY WITH all laws, codes, ordinances and regulations with authorities having jurisdiction and with requirements of the Landlord, if applicable. Do not start Work until all permits and required approvals are obtained. S SURGEON \bigcirc ()ER G, ш C ()С Ш 9 TECHN õ ഗ мЩ Ч \mathbf{C} BUSINESS Icbain DRIV S SUMMIT, N 0 BUIL S S 70 E Mc E'S ELECTRICAL GENERAL NOTES LEE 4 A) SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF LIGHT FIXTURES. \triangleleft B) COORDINATE NEMA RATING OF APPLIANCE PLUGS WITH THE EQUIPMENT SPECIFICATIONS. C) ALL RECEPTACLES WITHIN 6' OF WATER BEARING FIXTURES, EXTERIOR OUTLETS AND ALL OUTLETS IN KITCHEN AREAS SHALL BE GFI STYLE GREGORY P OR THE CIRCUIT SERVING THOSE DEVICES SHALL BE PROTECTED BY GLADFELTER MEANS OF A GFI CIRCUIT BREAKER. NUMBER E-2000150421 D) OUTLET AND SWITCH BOXES INSTALLED IN RATED WALLS SHALL BE PROVIDED WITH UL LISTED PUTTY PADS TO PROTECT THE RATING OF THE WALL. E) CONNECT ALL NIGHT LIGHT, EXIT LIGHT AND EMERGENCY LIGHT 12/06/2024 FIXTURES TO UNSWITCHED HOT-LEG OF NEAREST 120V LIGHTING CIRCUIT IN SAME AREA. PROJECT NO. 231206 F) CONDUIT INSTALLED IN AREAS OF BUILDINGS OR PORTIONS OF DRAWING ISSUANCE BUILDINGS WHERE MEDICAL CARE IS PROVIDED SHALL BE MEDICAL 09/27/2024 SHELL PERMIT GRADE CONDUIT AND THE INSTALLATION SHALL CONFORM WITH CHAPTER 517 OF THE NEC (HEALTH CARE FACILITIES). G) 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. SHEET NUMBER

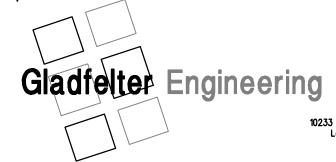
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E2.0S

FLOOR PLAN



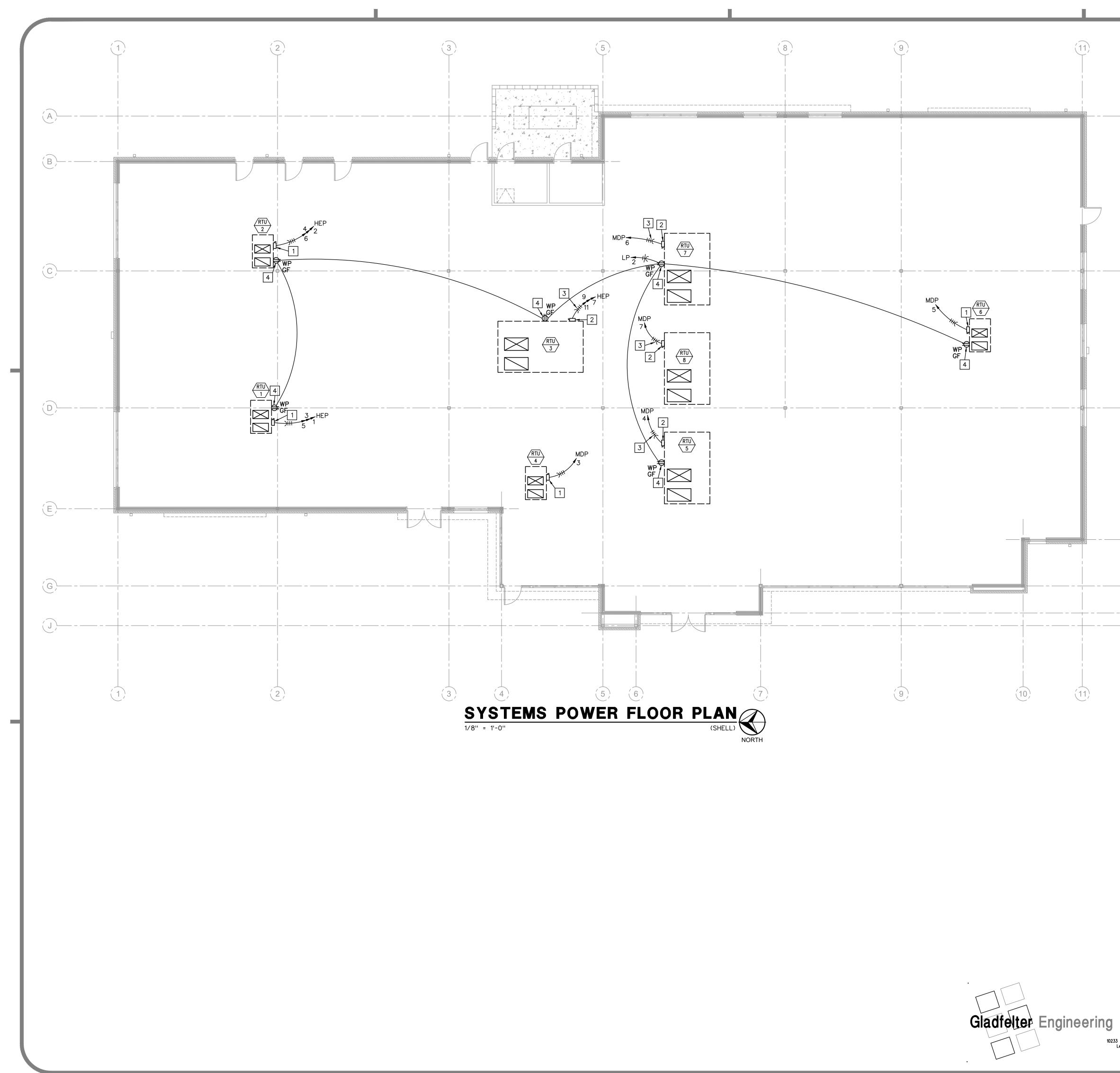


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Gladfelter Engineering Group assumes design responsibility for this project for only the mechanical plumbing and electrical disciplines with drawing sheet number beginning with M P.		F)	CONDUIT INSTALLED IN AREAS OF BUILDINGS OR PORTIONS OF BUILDINGS WHERE MEDICAL CARE IS PROVIDED SHALL BE MEDICAL	DRA 09/27/2024	WING IS	SHELL PERMIT
ASSOCIATED ELECTRICAL EQUIPMENT MATCHES THE CHARACTERISTICS OF THE EQUIPMENT BEING PROVIDED. 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.		G)	517 OF THE NEC (HEALTH CARE FACILITIES). THE ELECTRICAL CONTRACTOR SHALL CONSULT WITH OTHER			
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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.		•		SHE		ER
Sections and elevations and elevate and other intermation pertinent to showing the	Group	rr a p	nechanical, plumbing and electrical disciplines with drawing sheet number beginning with M, P nd E. All other drawings should be considered the work of others. Further, drawings in this roject set may contain drawing information, including but not limited to: architectural plans,			

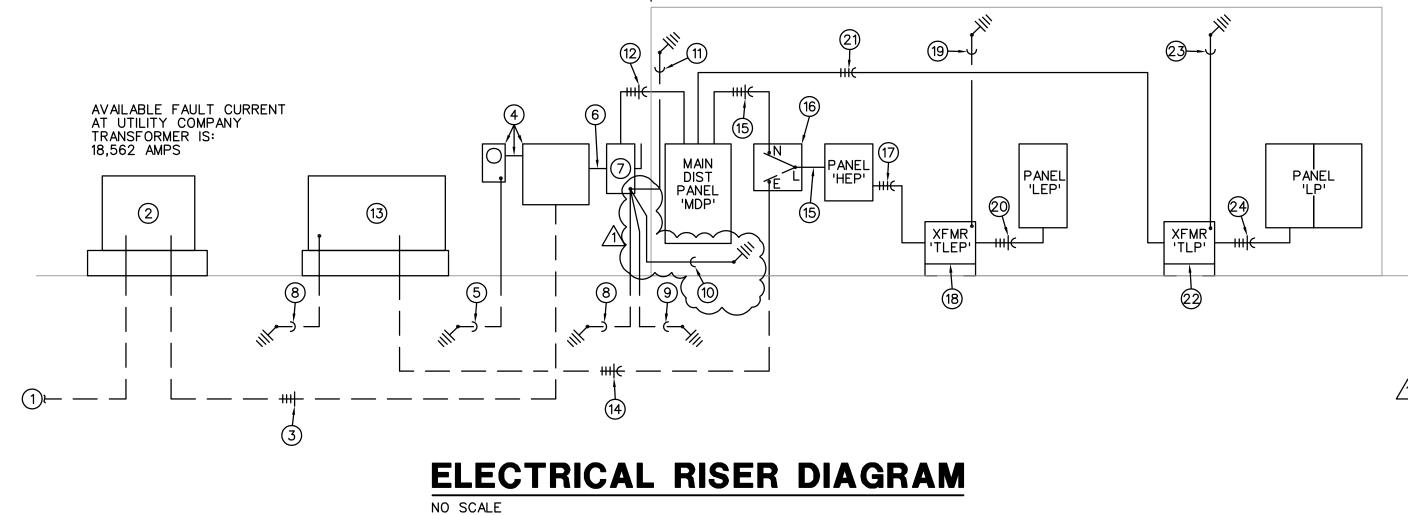
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mechanical, plumbing and electrical work which is furnished by others, generally indicated by screened or light type. Gladfelter Engineering Group assumes no responsibility or liability for the accuracy or regulatory compliance for work prepared by 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.

FLOOR PLAN



			RELEASED FOR CONSTRUCTION As Noted on Plans Revie
(A)	 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. 	Dev Anand President & CEO Kevin Campbell Senior Architect 8807 Monrovia Stree Lenexa, Kansas 662	
(C)		THIS DRAWING has been pr prepared under his direct s of service and is intended for Drawings, Specifications, ide overall layout, form, arrangem and elements portrayed, cons Work of the Architect. Any rep the information contained her of the Architect is strictly p COWPLY WITH all laws, codes, ordinc having jurisdiction and with require	2.8886 dev-inc.com repared by the Architect, or supervision as an instrument r use only on this project. All as and designs, including the ent, and composition of spaces stitute the original, unpublished roduction, use, or disclosure of ein without the written consent
(D)		No roo out whit of particular Solution of the second secon	
F G H J		FED PLASTIC S	TECHNOLOGY CENTER SSOURI
	 ELECTRICAL GENERAL NOTES A) COORDINATE NEMA RATING OF APPLIANCE PLUGS WITH THE EQUIPMENT SPECIFICATIONS. B) 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). C) THE ELECTRICAL CONTRACTOR SHALL CONSULT WITH OTHER 	A NEW BUILDING FOR: A NEW BUILDING FOR: BASSOCIAT	I-470 BUSINESS & NE McBAIN DRIVE LEE'S SUMMIT, MIS
	C) 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.		ELTER BER 150421 / Source SSIONA- 2024
Group Millstone Drive, #4112 enexa, Kansas 66220 Phone: 816-916-4675 Email gpg@gegrp.net	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.		IBER 2S R PLAN



BUILDING EXTERIOR BUILDING INTERIOR

			/
ELECIP	RICAL SYMBOLS	<u>EI</u>	
<u> </u>	BRANCH CIRCUIT CONCEALED IN CEILING OR WALL. ARROWS INDICATE HOMERUNS TO PANEL. ALL CONDUCTORS ARE #12 EXCEPT AS NOTED.	A)	CONTR. SCHEDU
— III —	CONDUIT RUN UNDERGROUND OR BENEATH FLOOR SLAB.	B)	INSTAL AUTHO
	GROUNDING CONDUCTOR #12 EXCEPT AS NOTED.	C)	CONTR
Ъ	WALL MOUNTED JUNCTION BOX.		PROJEC
0	CEILING MOUNTED JUNCTION BOX.	D)	ALL WI FITTING
	PANELBOARD (SURFACE MOUNTED). INSTALL W/TOP 6'-0" AFF.		SHALL
	DISTRIBUTION PANEL (SURFACE MOUNTED).	E)	ALL WI
다	DISCONNECT SWITCH. SIZED AS NOTED.	F)	ALUMIN
	DISCONNECT SWITCH FURNISHED WITH EQUIPMENT.		TO MAI STABIL
×	COMBINATION EXIT/EMERGENCY LIGHT FIXTURE WITH (2) HEADS	G)	CONTR
44	CEILING OR WALL MOUNTED EMERGENCY LIGHTING UNIT WITH (2) HEADS.	U)	MC CA
⊢ 0	LED STRIP FIXTURE.		SHALL
ю	WALL MOUNTED LIGHT FIXTURE.	D	INSTAL
н	REMOTE WEATHERPROOF EMERGENCY LIGHT FIXTURE.	(L	TYPEW AND CO
\$	SINGLE POLE SWITCH. +3'-10" AFF.	K)	CONTR
\$ ³	THREE-WAY SWITCH +3'-10" AFF.		ALL OT
\$MS	OCCUPANCY SENSOR. +3'-10" AFF.	L)	ALL WI COORD
¢	DUPLEX RECEPTACLE. +1'-6'' AFF OR AS NOTED.		
¢-	DUPLEX RECEPTACLE INSTALLED ABOVE COUNTERTOP.	M)	CONTR. EQUIPM
€ ^{₩₽}	DUPLEX RECEPTACLE WITH WEATHERPROOF PLATE. HEIGHT AS NOTED.	N)	FURNIS
€ ^{GF}	DUPLEX RECEPTACLE W/GROUND FAULT PROTECTION. +1'-6" AFF OR AS NOTED.	0)	ELECTF MATERI
Ē	FOURLEX RECEPTACLE. +1'-6" AFF OR AS NOTED.		AS REO
4	COMBINATION VOICE/DATA OUTLET WITH 3/4" CONDUIT STUBBED UP OUT OF BOX TO ABOVE ACCESSIBLE CEILING. +1'-6" AFF OR AS NOTED.	P)	CONTR. OTHERS
4	COMBINATION VOICE/DATA OUTLET WITH 3/4" CONDUIT STUBBED UP OUT OF BOX TO ABOVE ACCESSIBLE CEILING. INSTALLED ABOVE COUNTERTOP.	Q)	PANELE SWITCH
+3'-10''	HEIGHT TO CENTERLINE OF OUTLET BOX ABOVE FINISHED FLOOR.	R)	ALL CO
RTU-1	ROOF TOP UNIT AND NUMBER.	S)	PVC (S
AFF	ABOVE FINISH FLOOR.		FINISHE FITTING
EC	ELECTRICAL CONTRACTOR.	T)	DISCON
ТТВ	TELEPHONE TERMINAL BOARD		NEMA ´
AFC	AVAILABLE FAULT CURRENT	U)	ALL LIC RESIST
EGC	EQUIPMENT GROUNDING CONDUCTOR (EQUIPMENT GROUNDS)		AUTHO
GEC	GROUNDING ELECTRODE CONDUCTOR (SERVICE GROUNDS)	\lor	
MBJ	MAIN BONDING JUMPER		PROVID
		W)	EMERGE BACK-L FIXTUR

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.
- 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'-O'' LONG COPPER CLAD STEEL CONDUCTOR IN CONCRETE BUILDING
- FOOTING. 1 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 CONDCUTOR IN EACH.
- 13. 100KW/125KVA, 277/480V, 3-PHASE, 4-WIRE EMERGENCY GENERATOR WITH 150A/3P OUTPUT CIRCUIT BREAKER. NEMA 3R ENCLOSURE.

Gladfelter Engineering Group

CTRICAL GENERAL NOTES

TRACTOR SHALL COORDINATE INSTALLATION REQUIREMENTS AND EDULING OF ALL WORK WITH ARCHITECT AND GENERAL CONTRACTOR. ALLATION SHALL COMPLY WITH LATEST EDITION OF N.E.C. AND LOCAL HORITY HAVING JURISDICTION.

TRACTOR SHALL BE LICENSED TO PERFORM WORK IN MUNICIPALITY WHERE JECT IS LOCATED.

WIRING SHALL BE INSTALLED IN CONDUIT. EMT CONDUIT WITH SET SCREW INGS MAY BE UTILIZED WHERE PERMITTED BY CODE. MINIMUM CONDUIT SIZE BE 1/2".

WIRING SHALL BE COPPER WITH 600 VOLT INSULATION AND COLOR ED, UNLESS NOTED OTHERWISE.

INUM WIRING SHALL ONLY BE USED FOR FEEDERS FROM TRANSFORMER MAIN DISTRIBUTION PANEL. ALUMINUM CONDUCTORS SHALL BE ALCAN ILOY AA-8000 SERIES, 600 VOLT INSULATION.

TRACTOR SHALL OBTAIN AND PAY FOR ALL PERMIT AND INSPECTION FEES. CABLE MAY BE INSTALLED WHERE PERMITTED BY CODE. CONDUCTORS BE MINIMUM #12 GAUGE AND COPPER.

ALL BLANK COVER PLATE ON ALL PULL BOXES AND JUNCTION BOXES. EWRITTEN PANELBOARD DIRECTORY SHALL BE PROVIDED FOR PANELBOARD CORRECTLY FILLED OUT.

TRACTOR SHALL COORDINATE INSTALLATION OF ELECTRICAL WORK WITH OTHER TRADES INVOLVED WITH CONSTRUCTION OF PROJECT.

WIRING DEVICES SHALL BE RATED 20 AMP, OR AS NOTED ON DRAWINGS. RDINATE LOCATION WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN. TRACTOR SHALL FIELD VERIFY EXACT ROUTING OF ALL CONDUITS TO NEW PMENT.

VISH MATERIALS AND LABOR FOR A COMPLETE AND OPERATIONAL TRICAL INSTALLATION.

ERIAL AND EQUIPMENT SHALL BE NEW AND SHALL BEAR THE 'UL' LABELS REQUIRED.

TRACTOR SHALL COORDINATE INSTALLATION OF EQUIPMENT FURNISHED BY ERS. LBOARD, TRANSFORMERS, MAIN DISTRIBUTION PANEL AND DISCONNECT

CHES SHALL BE MANUFACTURED BY ITE/SIEMENS OR EQUAL. CONCRETE PADS AND POLE BASES ARE PROVIDED AND INSTALLED BY ERS.

(SCHEDULE 40) CONDUIT MAY BE USED FOR CONDUITS INSTALLED BELOW HED GRADE OR CONCRETE FLOOR SLAB. PROVIDE WITH APPROVED NGS.

ONNECT SWITCHES SHALL BE MANUFACTURED BY ITE/SIEMENS OR EQUAL. A 1 FOR INDOOR INSTALLATION AND NEMA 3R FOR OUTDOOR INSTALLATION. LIGHT FIXTURES AND DEVICES MOUNTED IN CEILING SHALL BE BRACED TO ST SEISMIC FORCES IN ACCORDANCE WITH IBC, NEC, AND LOCAL IORITY HAVING JURISDICTION.

RMOSTAT OUTLET BOXES SHALL BE PROVIDED AND INSTALLED WITH 3/4" DUIT STUBBED UP OUT TOP OF BOX TO ABOVE ACCESSIBLE CEILING. VIDE BUSHING ON END OF CONDUIT.

RGENCY AND EXIT LIGHT FIXTURES SHALL BE PROVIDED WITH BATTERY (-UP FOR MINIMUM OF (90) MINUTES. EMERGENCY AND EXIT LIGHT FIXTURES SHALL BE CONNECTED TO HOT LEG OF CIRCUIT, NOT SWITCHED.

- 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
- 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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CONDUCTOR.

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03/07/2025 PROJECT NO. 231206 DRAWING ISSUANCE 09/27/2024 SHELL PERMIT 03/07/2025 🛕 CITY COMMENTS



SCHEDL 22kAIC	JLE OF 'MDP'	SERVICE ENTRANCE LABEL 100% NEUTRAL BUS, GROUND BUS						
	277/480 VOLTS	3 PHASE	SURFAC 4 WIRE		D, NEMA 1 A MAINS			
CIR.			BREAKER		DEMAND	1		
NO.	DESCRIPTION	FRAME	POLE	TRIP	AMPS			
М	MAIN CIRCUIT BREAKER	800	3	800	436.4			
1	PANEL 'HEP'	200	3	150	137.4			
2	XFMR 'TLP'	250	3	250	180.0	Γ		
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	1		
7	RTU-8	100	3	35	26.0			
8	SPARE	100	3	-	-]		

PANEL SCHEDULE NOTES

1. ESTIMATED FUTURE DEMAND.

PANE	L <u>LP 120/</u>	208	VOLTS	
101.4		3	PHASE	
10kA SECT	ION <u>1</u> OF <u>2</u> .	4	WIRE	
CIRC. NO.	CIRCUIT DESCRIPTION	CIRC. AMPS	BRKR. POLES	VA
1	STRIP LIGHTS	20	1	1262
3	LTS - EXTERIOR BLDG	20	1	358
5	SITE LIGHTING	20	1	408
7	-	20	1	-
9	-	20	1	-
11	-	20	1	-
13	-	20	1	-
15	-	20	1	-
17	-	20	1	-
19	-	20	1	-
21	-	20	1	-
23	-	20	1	-
25	-	20	1	-
27	-	20	1	-
29	-	20	1	-
31	-	20	1	-
33	-	20	1	-
35	-	20	1	-
37	-	20	1	-
39	-	20	1	-
41	-	20	1	-
	AL CONNECTED LOAD	L F	IGHTS (RECEPT	FACTORS <u>a</u> <u>125</u> S @ <u>100</u> S @ <u>50</u>
	SURFACE MOUNTED		OTHER @	S @ <u>50</u> <u>100</u> MAND LOAI

PANE	L <u>HEP</u> 277/	480	VOLTS		200	_ A. BI	US		SERVI	CE ENT	RANCE]
101.41		3	PHASE		-	_ A. M	AIN BREAKER		FEED	THRU I	LUGS	
10kAl SECT	ION <u>1</u> OF <u>1</u>	4	WIRE		MA	N LUGS	5 ONLY		SUBF	EED LUG	GS	
CIRC.	CIRCUIT	CIRC.	BRKR.			CIRC.	CIRCUIT		CIRC.	BRKR.		1
NO.	DESCRIPTION	AMPS	POLES	VA	ø	NO.	DESCRIPTION	[AMPS	POLES	VA	
1				3051	A	2					3050]
3	RTU-1	15	3	3050	в	4	RTU-2		15	3	3051	
5				3051	с	6					3051	
7				8320	A	8					21600	1
9	RTU-3	40	3	8320	в	10	XFMR 'TLEP'		100	3	21600	1
11				8320	с	12					21600	1
TOTA	AL CONNECTED LOAD						31200 V	<i>(</i>)		NEUTRA 100	AL BUS	
_	108064VA		-SIMIR PTS @	@ <u>125</u> -		=		'A 'A	F		ACTOR	1
	SURFACE MOUNTED	1	PTS @	-		=	- V	'A		100	%	
I =	LUSH MOUNTED	OTHE	R @ DEMAND			=		'A 'A		4074	CURRENT	

PANE	L <u>LEP 120/</u>	208	VOLTS		200	_ A. BI	us 🗆	SERVI	CE ENT	RANCE
	•	3	PHASE	■.	200	_ A. M	AIN BREAKER	FEED	THRU I	LUGS
10kAl SECTI	ON <u>1</u> OF <u>1</u>	4	WIRE		MAI	N LUGS	S ONLY	SUBFE	EED LU	GS
CIRC. NO.	CIRCUIT DESCRIPTION	CIRC.	BRKR. POLES	VA	ø	CIRC. NO.	CIRCUIT DESCRIPTION	L	BRKR. POLES	VA
1	LTS - MECH/ELEC	20	1	150	A	2	REC - ELEC RM	20	1	180
3	-	20	1	-	в	4	REC - WATER/EXTERI	20	1	1080
5	-	20	1	-	с	6	-	20	1	-
7	-	20	1	-	A	8	-	20	1	-
9	-	20	1	-	в	10	-	20	1	-
11	-	20	1	-	с	12	-	20	1	-
13	-	20	1	-	Α	14	-	20	1	-
15	-	20	1	-	в	16	-	20	1	-
17	-	20	1	-	с	18	-	20	1	-
19	-	20	1	-	A	20	-	20	1	-
21	-	20	1	-	в	22	-	20	1	-
23	-	20	1	-	с	24	-	20	1	-
25	-	20	1	-	A	26	-	20	1	-
27	-	20	1	-	в	28	-	20	1	-
29	-	20	1	-	с	30	-	20	1	-
31	-	20	1	-	A	32	-	20	1	-
33	-	20	1	-	в	34	-	20	1	-
35	-	20	1	-	с	36	-	20	1	-
37	-	20	1	-	A	38	-	20	1	-
39	-	20	1	-	в	40	-	20	1	-
41	-	20	1	-	с	42	-	20	1	-
	L CONNECTED LOAD 2310 VA	L F	IGHTS @	FACTORS: 125 6 @ 100 6 @ 50	% %	=	188 VA 2160 VA - VA		POWER	_%
	LUSH MOUNTED	0	OTHER @	MAND LOAD	%		- VA 2348 VA		MAND (360.0	

PANEL _____ 120/208 VOLTS _____400 A. BUS SERVICE ENTRANCE SERVICE ENTRANCE <u>400</u> A. BUS \Box _-__ A. MAIN BREAKER 400 A. MAIN BREAKER FEED THRU LUGS <u>3</u> PHASE FEED THRU LUGS MAIN LUGS ONLY SECTION <u>2</u> OF <u>2</u> <u>4</u> WIRE MAIN LUGS ONLY SUBFEED LUGS SUBFEED LUGS CIRC. BRKR. CIRC. BRKR. Ø CIRC. NO. CIRC. BRKR. Ø CIRC. NO. CIRC. NO. CIRCUIT CIRCUIT CIRCUIT AMPS POLES AMPS POLES VA VA VA DESCRIPTION AMPS POLES DESCRIPTION DESCRIPTION 43 A 2 WP/GF REC - RTU 900 A 44 20 20 20 ----B 4 20 20 20 45 - |B| 46 -----1 20 J C 6 47 - |C| 48 20 20 -----20 A 8 20 20 -49 - | A | 50 1 ---------B 10 20 51 20 - B 52 20 ----53 C 12 20 20 - |C| 54 20 -----1 A 14 55 20 20 20 - A 56 ----1 -B 16 20 57 20 - B 58 20 -----C | 18 20 59 20 C 60 20 ------ | A | 62 20 A 20 20 61 20 1 -----B 22 20 63 20 - |B| 64 20 -----65 C 24 20 20 - C 66 20 -----20 A 26 20 67 20 1 - A 68 --1 --1 -B 28 20 69 20 20 - |B| 70 -----_____ ____ ____ _____ C 30 71 - C 72 20 20 20 --A 32 20 1 73 20 - A 74 20 1 -----75 20 B 34 20 20 - B 76 1 -----C 36 77 - C 78 20 20 20 -----A 38 20 79 20 - A 80 20 ---1 --_____ 81 - B 82 20 B 40 20 20 1 -1 ----C 42 20 20 1 83 20 - C 84 -----NEUTRAL BUS $\frac{25}{2}$ % = _____2535 100 % VA SEE SECTION 1 FOR POWER FACTOR 0____%=____-___ VA <u>100</u>%)_____% = ______VA LOAD CALCULATIONS VA VA UDEMAND CURRENT VA 1 360.0 AMPS $300 \ \% = 30AD \ = 2535$

TYPE	MANUFACTURER	LAMP	<u>VOLTS</u> WATTS
Α	LITHONIA LTG #TZL1D L96 6000LM FST MVOLT 35K 80CRI WH	LED	<u>120</u> 59
В	LITHONIA LTG #ZL1D L48 3000LM FST MVOLT 35K 80CRI WH	LED	<u>120</u> 30
P1	LITHONIA LTG #DSX1 LED P3 40K 80CRI BLC3	LED	<u>120</u> 102
W1	ACUITY BRANDS #SQP402-L1L10-FLD_1	LED	<u>120</u> 12
W2	LITHONIA LTG #DSXW1 LED 20C 1000 40K T2M MV	LED	<u>120</u> 73
ЕМ	EXITRONIX #LED90	(2) LED HEADS WITH UNIT	<u>120</u> 10
EEM	EXITRONIX #MLED	WEATHERPROOF LED REMOTE	<u>6</u> 8
х	EXITRONIX #VEX-U-BP-WB-WH-120-R	RED LED WITH UNIT	<u>120</u> 10
XEM	EXITRONIX #VLED-1-WH-EL90-R	RED LED AND (2) LED HEADS WITH UNIT	<u>120</u> 15
	YPE 'X' AND/OR 'XEM' FIXTURES SHALL H OWER TYPE 'EEM'.	IAVE 12 WATTS OF REMOTE C	APACITY AND
	PMENT RS FOR	MA) LEN	

RATING OR SETTING OF AUTOMATIC	SIZE (AWG OR KCMILL)		
OVER CURRENT PROTECTION DEVICE IN CIRCUIT AHEAD OF EQUIPMENT, CONDUIT, ETC, NOT EXCEEDING THE FOLLOWING.	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).			

Gladfelter Engineering Group

RELEASED FOR CONSTRUCTION As Noted on Plans Review

LIGHT FIXTUR	E SCHEDUL	E
MANUFACTURER	LAMP	VOLTS WATTS

GRD'G BACEWAY & FOLIIDMENT

AXIMUM CIRCUIT NGTH SCHEDULE

	WIRE SIZE	MAXIMUM CIRCUIT LENGTH IN FEET				
CIRCUIT		2 WIRE, 1 PHASE			3 WIRE, 3 PHASE	
	JIZE	120 V	240 V	277 V	208 V	480 V
20	#12	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.

CIRCUIT LENGTH IS THE ONE WAY DISTANCE FROM THE OVER CURRENT PROTECTION DEVICE TO THE POINT OF USE.

IF THE INSTALLED CIRCUIT LENGTH EXCEEDS THE INDICATED MAXIMUM CIRCUIT LENGTH INDICATED, THEN THE CONDUCTORS SHALL BE INCREASED ONE NOMINAL WIRE SIZE.

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	prepared u	nder his direct	supervision	the Architect, o as an instrumer	nt
	Drawings, S overall layou	it, form, arrangem	eas and des nent, and co	igns, including th mposition of space	es
	Work of the the informa	Architect. Any re tion contained her	production, u rein without	original, unpublishe se, or disclosure of the written conser	F
	of the Arch	itect is strictly p	prohibited.	ulations with authoriti	
	having jurisdia	tion and with require	ements of the	Landlord, if applicabl approvals are obtaine	le.
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DRAWING ISSUANCE 09/27/2024 SHELL PERMIT



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 INTERLOCKING LINKS SHAPED TO FIT SURFACE OF CABLE OR CONDUIT. INCLUDE TYPE AND NUMBER REQUIRED FOR MATERIAL AND SIZE OF RACEWAY OR PRESSURE PLATES: PLASTIC, INCLUDE TWO FOR FACH SEALING FLEMENT
- 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
- 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

- 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 BY10 FEET (19 MM BY 3 M) IN DIAMETER. EXECUTION

APPLICATIONS

- CONDUCTORS: INSTALL SOLID CONDUCTOR 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 WALL 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 CONDUCTOR 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 AD IACENT PARTS
- BONDING TO EQUIPMENT MOUNTED ON VIBRATION ISOLATION HANGERS AND 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 DIFLECTRIC MAIN WATER FITTING IS INSTALLED, CONNECT GROUNDING CONDUCTOR ON STREET SIDE OF FITTING. BOND METAL GROUNDING CONDUCTOR CONDUIT OR SLEEVE TO CONDUCTOR 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 SHUTOFE 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 60 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 RMC 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 STEEL SLOTTED SUPPORT SYSTEM, SIZED SO CAPACITY CAN BE INCREASED BY AT LE 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, EM AND RMC MAY BE SUPPORTED BY OPENINGS THROUGH STRUCTURE MEMBERS, AS
- PERMITTED IN NFPA 70. MOUNTING AND ANCHORAGE OF SURFACE-MOUNTED EQUIPMENT AND COMPONENTS ANCHOR AND FASTEN ELECTRICAL ITEMS AND THEIR SUPPORTS TO BUILDING STRUC 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 AN
- EXPANSION ANCHOR FASTENERS ON SOLID MASONRY UNITS. TO EXISTING CONCRETE: EXPANSION ANCHOR FASTENERS
- INSTEAD OF EXPANSION ANCHORS, POWDER-ACTUATED DRIVEN THREADED STU PROVIDED WITH LOCK WASHERS AND NUTS MAY BE USED IN EXISTING STANDARD-WEIGHT CONCRETE 4 INCHES (100 MM) THICK OR GREATER. DO NOT FOR ANCHORAGE TO LIGHTWEIGHT-AGGREGATE CONCRETE OR FOR SLABS LESS 4 INCHES (100 MM) THICK.
- TO STEEL: BEAM CLAMPS (MSS TYPE 19, 21, 23, 25, OR 27) COMPLYING WITH MSS TO LIGHT STEEL: SHEET METAL SCREWS. ITEMS MOUNTED ON HOLLOW WALLS AND NONSTRUCTURAL BUILDING SURFACES
- CABINETS, PANELBOARDS, DISCONNECT SWITCHES, CONTROL ENCLOSURES, PU JUNCTION BOXES, TRANSFORMERS, AND OTHER DEVICES ON SLOTTED-CHANNEL ATTACHED TO SUBSTRATE

4. CONDUCTORS AND CABLES QUALITY ASSURANCE

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

PRODUCTS

- CONDUCTORS AND CABLES MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PROD 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 THHN-THWN. MULTICONDUCTOR CABLE: COMPLY WITH NEMA WC 70 FOR METAL-CLAD CABLE, TYP WITH GROUND WIRE. CONNECTORS AND SPLICES
- AVAILABLE MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, MANUFACTURERS OFFERING PRODUCTS THAT MAY BE INCORPORATED INTO THE WO INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
- AFC CABLE SYSTEMS, INC. HUBBELL POWER SYSTEMS, INC
- O-Z/GEDNEY; EGS ELECTRICAL GROUP LLC. 3M: ELECTRICAL PRODUCTS DIVISION. TYCO FLECTRONICS CORP
- DESCRIPTION: FACTORY-FABRICATED CONNECTORS AND SPLICES OF SIZE, AMPACIT 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 AW I ARGER 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 RACEWA 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 EXPOS STRUCTURAL MEMBERS, AND FOLLOW SURFACE CONTOURS WHERE POSSIBLE. IDENTIFY AND COLOR-CODE CONDUCTORS AND CABLES ACCORDING TO SECTION "HA
- AND SUPPORTS FOR ELECTRICAL SYSTEMS.

5.RACEWAYS AND BOXES

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

PRODUCTS

- METAL CONDUIT AND TUBING MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PROD 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 LIQUIDTIGHT), EMI
- CABLE: NEMA FB 1; LISTED FOR TYPE AND SIZE RACEWAY WITH WHICH USED, AND FC APPLICATION AND ENVIRONMENT IN WHICH INSTALLED. CONDUIT FITTINGS FOR HAZARDOUS (CLASSIFIED) LOCATIONS: COMPLY WITH U 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
- CERTAINTEED 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

STEAM PIPING

FINISHED SLAB.

SYSTEMS."

- RACEWAY APPLICATION OUTDOORS: APPLY RACEWAY PRODUCTS AS SPECIFIED BELOW, UNLESS OTHERWISE INDICATED. EXPOSED AND CONCEALED CONDUIT: RIGID STEEL CONDUIT.
- UNDERGROUND CONDUIT: RNC, TYPE EPC-40-PVC, DIRECT BURIED. 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.
- INSTALLATION 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.

SUPPORT RACEWAYS AS SPECIFIED IN "HANGERS AND SUPPORTS FOR ELECTRICAL

ARRANGE STUB-UPS SO CURVED PORTIONS OF BENDS ARE NOT VISIBLE ABOVE THE

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

WITH EAST 25	RUN EXCEPT FOR COMMUNICATIONS CONDUITS, FOR WHICH FEWER BENDS ARE ALLOWED. CONCEAL CONDUIT AND EMT WITHIN FINISHED WALLS, CEILINGS, AND FLOORS, UNLESS	PRODUCTS
Ξ	OTHERWISE INDICATED. RACEWAYS EMBEDDED IN SLABS: RUN CONDUIT LARGER THAN 1-INCH (27-MM) TRADE SIZE, PARALLEL OR AT RIGHT	FUSIBLE AND NONFUSIBLE SWITCHES MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:
1T, IMC,	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	EATON ELECTRICAL INC.; CUTLER-HAMMER BUSINESS UNIT. GENERAL ELECTRIC COMPANY; GE CONSUMER & INDUSTRIAL - ELECTRICAL DISTRIBUTION.
S:	EXPANSION FITTINGS. CHANGE FROM ENT TO RNC, TYPE EPC-40-PVC, RIGID STEEL CONDUIT, OR IMC BEFORE RISING ABOVE THE FLOOR.	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
CTURAL	RACEWAY TERMINATIONS AT LOCATIONS SUBJECT TO MOISTURE OR VIBRATION: USE INSULATING BUSHINGS TO PROTECT CONDUCTORS, INCLUDING CONDUCTORS SMALLER THAN NO. 4 AWG.	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.
ND	INSTALL PULL WIRES IN EMPTY RACEWAYS. USE POLYPROPYLENE OR MONOFILAMENT PLASTIC LINE WITH NOT LESS THAN 200-LB (90-KG) TENSILE STRENGTH. LEAVE AT LEAST 12 INCHES (300 MM) OF SLACK AT EACH END OF PULL WIRE.	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 [SPECIFIED] [INDICATED] FUSES, LOCKABLE HANDLE WITH CAPABILITY TO ACCEPT THREE
DS	RACEWAYS FOR OPTICAL FIBER AND COMMUNICATIONS CABLE: INSTALL RACEWAYS, METALLIC AND NONMETALLIC, RIGID AND FLEXIBLE, WITH A MAXIMUM OF TWO 90-DEGREE	PADLOCKS, AND INTERLOCKED WITH COVER IN CLOSED POSITION. ACCESSORIES:
USE	BENDS OR EQUIVALENT FOR EACH LENGTH OF RACEWAY UNLESS DRAWINGS SHOW STRICTER REQUIREMENTS. SEPARATE LENGTHS WITH PULL OR JUNCTION BOXES OR	EQUIPMENT GROUND KIT: INTERNALLY MOUNTED AND LABELED FOR COPPER AND ALUMINUM GROUND CONDUCTORS.
S THAN	TERMINATIONS AT DISTRIBUTION FRAMES OR CABINETS WHERE NECESSARY TO COMPLY WITH THESE REQUIREMENTS.	NEUTRAL KIT: INTERNALLY MOUNTED; INSULATED, CAPABLE OF BEING GROUNDED AND BONDED; LABELED FOR COPPER AND ALUMINUM NEUTRAL CONDUCTORS.
SP-69. S:	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.	LUGS: MECHANICAL TYPE, SUITABLE FOR NUMBER, SIZE, AND CONDUCTOR MATERIAL. SERVICE-RATED SWITCHES: LABELED FOR USE AS SERVICE EQUIPMENT. ENCLOSURES
S. JLL AND	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	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.
L RACKS	DAMAGE. RECESSED BOXES IN MASONRY WALLS: SAW-CUT OPENING FOR BOX IN CENTER OF CELL OF	INDOOR, DRY AND CLEAN LOCATIONS: NEMA 250, TYPE 1. OUTDOOR LOCATIONS: NEMA 250, TYPE 3R.
	MASONRY BLOCK, AND INSTALL BOX FLUSH WITH SURFACE OF WALL.	EXECUTION
	6.WIRING DEVICES	INSTALLATION
DEFINED NG	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.	INSTALL INDIVIDUAL WALL-MOUNTED SWITCHES AND CIRCUIT BREAKERS WITH TOPS AT UNIFORM HEIGHT UNLESS OTHERWISE INDICATED. COMPLY WITH NECA 1. IDENTIFICATION
	COMPLY WITH NFPA 70. COORDINATION	COMPLY WITH REQUIREMENTS IN SECTION "ELECTRICAL IDENTIFICATION." IDENTIFY FIELD-INSTALLED CONDUCTORS, INTERCONNECTING WIRING, AND
UCTO	RECEPTACLES FOR OWNER-FURNISHED EQUIPMENT: MATCH PLUG CONFIGURATIONS. CORD AND PLUG SETS: MATCH EQUIPMENT REQUIREMENTS.	COMPONENTS; PROVIDE WARNING SIGNS. LABEL EACH ENCLOSURE WITH ENGRAVED METAL OR LAMINATED-PLASTIC NAMEPLATE.
UCTS	PRODUCTS	9.PANELBOARDS
	STRAIGHT BLADE RECEPTACLES CONVENIENCE RECEPTACLES, 125 V, 20 A: COMPLY WITH NEMA WD 1, NEMA WD 6	SUBMITTALS PRODUCT DATA: FOR EACH TYPE OF PANELBOARD, SWITCHING AND OVERCURRENT
	CONFIGURATION 5-20R, AND UL 498. PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE	PROTECTIVE DEVICE, TRANSIENT VOLTAGE SUPPRESSION DEVICE, ACCESSORY, AND COMPONENT INDICATED. INCLUDE DIMENSIONS AND MANUFACTURERS' TECHNICAL DATA ON
	FOLLOWING: COOPER; 5351 (SINGLE), 5352 (DUPLEX).	FEATURES, PERFORMANCE, ELECTRICAL CHARACTERISTICS, RATINGS, AND FINISHES. OPERATION AND MAINTENANCE DATA: FOR PANELBOARDS AND COMPONENTS TO INCLUDE
PE MC	HUBBELL; HBL5351 (SINGLE), CR5352 (DUPLEX). LEVITON; 5891 (SINGLE), 5352 (DUPLEX).	IN EMERGENCY, OPERATION, AND MAINTENANCE MANUALS QUALITY ASSURANCE
	PASS & SEYMOUR; 5381 (SINGLE), 5352 (DUPLEX). GFCI RECEPTACLES	SOURCE LIMITATIONS: OBTAIN PANELBOARDS, OVERCURRENT PROTECTIVE DEVICES, COMPONENTS, AND ACCESSORIES FROM SINGLE SOURCE FROM SINGLE MANUFACTURER.
DRK	DUPLEX GFCI CONVENIENCE RECEPTACLES, 125 V, 20 A: PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE	PRODUCT SELECTION FOR RESTRICTED SPACE: DRAWINGS INDICATE MAXIMUM DIMENSIONS FOR PANELBOARDS INCLUDING CLEARANCES BETWEEN PANELBOARDS AND ADJACENT
	FOLLOWING: COOPER; GF20. PASS & SEYMOUR; 2084.	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
	HUBBELL EQUAL LEVITON EQUAL.	APPLICATION. COMPLY WITH NEMA PB 1.
ſΥ	WALL PLATES SINGLE AND COMBINATION TYPES TO MATCH CORRESPONDING WIRING DEVICES.	COMPLY WITH NEPA 70. COORDINATION
	PLATE-SECURING SCREWS: METAL WITH HEAD COLOR TO MATCH PLATE FINISH. MATERIAL FOR DAMP LOCATIONS: CAST ALUMINUM WITH SPRING-LOADED LIFT COVER.	COORDINATE LAYOUT AND INSTALLATION OF PANELBOARDS AND COMPONENTS WITH OTHER CONSTRUCTION THAT PENETRATES WALLS OR IS SUPPORTED BY THEM, INCLUDING
	AND LISTED AND LABELED FOR USE IN "WET LOCATIONS." WET-LOCATION, WEATHERPROOF COVER PLATES: NEMA 250, COMPLYING WITH TYPE 3R	ELECTRICAL AND OTHER TYPES OF EQUIPMENT, RACEWAYS, PIPING, ENCUMBRANCES TO WORKSPACE CLEARANCE REQUIREMENTS, AND ADJACENT SURFACES. MAINTAIN REQUIRED
VG AND	WEATHER-RESISTANT, DIE-CAST ALUMINUM WITH LOCKABLE COVER.	WORKSPACE CLEARANCES AND REQUIRED CLEARANCES FOR EQUIPMENT ACCESS DOORS AND PANELS.
		WARRANTY SPECIAL WARRANTY: MANUFACTURER'S STANDARD FORM IN WHICH MANUFACTURER
AY.	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.	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
	COORDINATION COORDINATE LAYOUT AND INSTALLATION OF CEILING-MOUNTED DEVICES WITH OTHER	KEYS: TWO SPARES FOR EACH TYPE OF PANELBOARD CABINET LOCK.
	CONSTRUCTION THAT PENETRATES CEILINGS OR IS SUPPORTED BY THEM, INCLUDING LIGHT FIXTURES, HVAC EQUIPMENT, SMOKE DETECTORS, FIRE-SUPPRESSION SYSTEM, AND	PRODUCTS
	PARTITION ASSEMBLIES.	GENERAL REQUIREMENTS FOR PANELBOARDS MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS
SED	PRODUCTS TIME SWITCHES	BY ONE OF THE FOLLOWING: EATON ELECTRICAL INC.; CUTLER-HAMMER BUSINESS UNIT. GENERAL ELECTRIC COMPANY; GE CONSUMER & INDUSTRIAL - ELECTRICAL
ANGERS	BASIS-OF-DESIGN PRODUCT: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE THE PRODUCT INDICATED ON DRAWINGS OR A COMPARABLE PRODUCT BY ONE OF THE	DISTRIBUTION. SIEMENS ENERGY & AUTOMATION, INC.
	FOLLOWING: INTERMATIC, INC.	SQUARE D; A BRAND OF SCHNEIDER ELECTRIC. ENCLOSURES: FLUSH- AND SURFACE-MOUNTED CABINETS AS SCHEDULED.
DEFINED	SQUARE D; SCHNEIDER ELECTRIC. TORK.	RATED FOR ENVIRONMENTAL CONDITIONS AT INSTALLED LOCATION. INDOOR DRY AND CLEAN LOCATIONS: NEMA 250, TYPE 1.
NG	WATT STOPPER (THE). ELECTRONIC TIME SWITCHES: ELECTRONIC, SOLID-STATE PROGRAMMABLE UNITS WITH	OUTDOOR LOCATIONS: NEMA 250, TYPE 3R. OTHER WET OR DAMP INDOOR LOCATIONS: NEMA 250, TYPE 4.
	ALPHANUMERIC DISPLAY; COMPLYING WITH UL 917. CONTACT CONFIGURATION: SPST.	FINISHES: PANELS AND TRIM: STEEL, FACTORY FINISHED IMMEDIATELY AFTER CLEANING AND
	CONTACT RATING: 20-A BALLAST LOAD, 120/240-V AC. PROGRAM: 2 ON-OFF SET POINTS ON A 24-HOUR SCHEDULE, ALLOWING DIFFERENT SET	PRETREATING WITH MANUFACTURER'S STANDARD TWO-COAT, BAKED-ON FINISH CONSISTING OF PRIME COAT AND THERMOSETTING TOPCOAT.
UCTS	POINTS FOR EACH DAY OF THE WEEK. CIRCUITRY: ALLOW CONNECTION OF A PHOTOELECTRIC RELAY AS SUBSTITUTE FOR	BACK BOXES: GALVANIZED STEEL. PHASE, NEUTRAL, AND GROUND BUSES:
	ON-OFF FUNCTION OF A PROGRAM. ASTRONOMIC TIME: ALL CHANNELS.	MATERIAL: HARD-DRAWN COPPER, 98 PERCENT CONDUCTIVITY. EQUIPMENT GROUND BUS: ADEQUATE FOR FEEDER AND BRANCH-CIRCUIT EQUIPMENT
T 4115	BATTERY BACKUP: FOR SCHEDULES AND TIME CLOCK. OUTDOOR PHOTOELECTRIC SWITCHES	GROUNDING CONDUCTORS; BONDED TO BOX. CONDUCTOR CONNECTORS: SUITABLE FOR USE WITH CONDUCTOR MATERIAL AND SIZES.
T, AND OR	BASIS-OF-DESIGN PRODUCT: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE A PRODUCT BY ONE OF THE FOLLOWING:	MATERIAL: HARD-DRAWN COPPER, 98 PERCENT CONDUCTIVITY. MAIN AND NEUTRAL LUGS: MECHANICAL TYPE. CROUND LUCS AND BUS CONFIGURED TERMINATORS: MECHANICAL TYPE
L 886.)R	INTERMATIC, INC. SQUARE D; SCHNEIDER ELECTRIC. TORK.	GROUND LUGS AND BUS-CONFIGURED 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 DEVICE.

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 TIME DELAY: 30-SECOND MINIMUM, TO PREVENT FALSE OPERATION. LIGHTNING ARRESTER: AIR-GAP TYPE.

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.

MOUNTING: TWIST LOCK COMPLYING WITH IEEE C136.10, WITH BASE.

SQUARE D: SCHNEIDER ELECTRIC DESCRIPTION: ELECTRICALLY OPERATED AND ELECTRICALLY HELD, COMPLYING WITH NEMA ICS 2 AND UL 508. CURRENT RATING FOR SWITCHING: LISTING OR RATING CONSISTENT WITH TYPE OF LOAD SERVED, INCLUDING TUNGSTEN FILAMENT, INDUCTIVE, AND HIGH-INRUSH BALLAST (BALLAST WITH 15 PERCENT OR LESS TOTAL HARMONIC DISTORTION OF NORMAL LOAD 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 SERVED AND ADJACENT SURFACES. MAINTAIN REQUIRED WORKSPACE CLEARANCES AND REQUIRED CLEARANCES FOR EQUIPMENT ACCESS DOORS AND PANELS.

INSTALL NO MORE THAN THE EQUIVALENT OF THREE 90-DEGREE BENDS IN ANY CONDUIT

Gladfelter Engineering Group

SERVICE EQUIPMENT LABEL: NRTL LABELED FOR USE AS SERVICE EQUIPMENT FOR

LISTED AND LABELED FOR SERIES-CONNECTED SHORT-CIRCUIT RATING BY AN NRTL.

MOUNT TOP OF TRIM 90 INCHES (2286 MM) ABOVE FINISHED FLOOR UNLESS OTHERWISE

MOUNT PANELBOARD CABINET PLUMB AND RIGID WITHOUT DISTORTION OF BOX. MOUNT

PANELBOARD NAMEPLATES: LABEL EACH PANELBOARD WITH A NAMEPLATE COMPLYING

WITH REQUIREMENTS FOR IDENTIFICATION SPECIFIED IN SECTION "ELECTRICAL

RECESSED PANELBOARDS WITH FRONTS UNIFORMLY FLUSH WITH WALL FINISH AND MATING

OVERCURRENT PROTECTIVE DEVICES.

WITHOUT DISTURBING ADJACENT UNITS.

INSTALL FILLER PLATES IN UNUSED SPACES.

EXECUTION

INSTALLATION

INDICATED

WITH BACK BOX.

IDENTIFICATION

IDENTIFICATION."

COMPLY WITH NECA 1

LIGHTING AND APPLIANCE BRANCH-CIRCUIT PANELBOARDS

INSTALL PANELBOARDS AND ACCESSORIES ACCORDING TO NEMA PB 1.1.

MAINS: CIRCUIT BREAKER OR LUGS ONLY AS SCHEDULED.

PANELBOARDS OR LOAD CENTERS WITH ONE OR MORE MAIN SERVICE DISCONNECTING AND

PANELBOARD SHORT-CIRCUIT CURRENT RATING: RATED FOR SERIES-CONNECTED SYSTEM

BY AN NRTL. INCLUDE SIZE AND TYPE OF ALLOWABLE UPSTREAM AND BRANCH DEVICES,

WITH INTEGRAL OR REMOTE UPSTREAM OVERCURRENT PROTECTIVE DEVICES AND LABELED

BRANCH OVERCURRENT PROTECTIVE DEVICES: BOLT-ON CIRCUIT BREAKERS, REPLACEABLE

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 NEMA FU 1 FOR CARTRIDGE FUSES.

COMPLY WITH NFPA 70.

PRODUCTS

MANUFACTURERS MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING COOPER BUSSMANN, INC.

EDISON FUSE, INC.

FERRAZ SHAWMUT, INC. LITTELFUSE, INC. CARTRIDGE FUSES

CHARACTERISTICS: NEMA FU 1, NONRENEWABLE CARTRIDGE FUSES WITH VOLTAGE RATINGS CONSISTENT WITH CIRCUIT VOLTAGES

EXECUTION

FUSE APPLICATIONS CARTRIDGE FUSES

SERVICE ENTRANCE: CLASS RK1, FAST ACTING (0-600A); 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.

BALLAST. ENERGY-EFFICIENCY DATA

PHOTOMETRIC DATA, IN IESNA FORMAT, BASED ON LABORATORY TESTS OF EACH LIGHTING FIXTURE TYPE, OUTFITTED WITH LAMPS, BALLASTS, AND ACCESSORIES IDENTICAL TO THOSE INDICATED FOR THE LIGHTING FIXTURE AS APPLIED IN THIS PROJECT

OPERATION AND MAINTENANCE DATA: FOR LIGHTING EQUIPMENT AND FIXTURES TO INCLUDE IN EMERGENCY OPERATION AND MAINTENANCE MANUALS

WARRANTIES: SPECIAL WARRANTIES SPECIFIED IN THIS SECTION. 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 NEPA 70. COORDINATION

COORDINATE LAYOUT AND INSTALLATION OF LIGHTING FIXTURES AND SUSPENSION SYSTEM WITH OTHER CONSTRUCTION THAT PENETRATES CEILINGS OR IS SUPPORTED BY THEM, INCLUDING HVAC EQUIPMENT, FIRE-SUPPRESSION SYSTEM, AND PARTITION ASSEMBLIES.

12. FIRE-ALARM SYSTEM (DEFERRED SUBMITTAL)

SUBMITTALS Shop Drawings: For fire-alarm system. Include plans, elevations, sections, details, and attachments to other work. Provide voltage drop and battery-size calculations. Show all devices and cable connections

between each QUALITY ASSURANCE

location and application.

Installer Qualifications: Personnel shall be trained and certified by manufacturer for installation of units required for this Project. Obtain fire-alarm system from single source from single manufacturer. Components shall be compatible with, and operate as, an extension of existing system. All components shall be listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended

PRODUCTS

MANUFACTURERS Manufacturers: Provide products by one of the following:

Bosch Security Systems.

Fire Control Instruments, Inc.; a Honeywell company. Fire Lite Alarms; a Honeywell company.

Gamewell; a Honeywell company.

NOTIFIER; a Honeywell company Siemens Building Technologies, Inc.; Fire Safety Division.

SimplexGrinnell LP; a Tyco International company. SYSTEMS OPERATIONAL DESCRIPTION

Fire-alarm signal initiation shall be by smoke detectors and duct smoke detectors. Fire-alarm signal shall continuously operate alarm-notification appliances, identify alarm at the fire-alarm control unit and remote annunciators, transmit an alarm signal to the remote alarm receiving station,

switch heating, ventilating, and air-conditioning equipment controls to fire-alarm mode, and record events

in the system memory System trouble signal shall be initiated by open circuits, shorts, and grounds in designated circuits; opening, tampering with, or removing alarm-initiating and supervisory signal-initiating devices; loss of primary power at fire-alarm control unit; ground or a single break in fire-alarm control unit internal circuits; abnormal ac voltage at fire-alarm control unit: a break in standby battery circuitry: failure of battery charging; or an abnormal position of any switch at fire-alarm control unit or annunciator. System Trouble and Supervisory Signal Actions shall initiate notification appliance and annunciate at

fire-alarm control unit. FIRE-ALARM CONTROL UNIT

Field-programmable, microprocessor-based, modular, power-limited design with electronic modules, complying with UI 864 and listed and labeled by an NRTI Furnish with addressable control circuits for operation of mechanical equipment and elevator recall capabilities as required. Continuously adjustable slider: with single-pole or three-way switching module. Initiating devices. notification appliances, signaling lines, trouble signals, supervisory and digital alarm communicator transmitters shall be powered by 24-V dc source. Sealed lead calcium batteries shall be furnished for

secondary power SYSTEM SMOKE DETECTORS

Photoelectric Smoke Detectors Detector address shall be accessible from fire-alarm control unit and shall be able to identify the detector's location within the system and its sensitivity setting. Duct Smoke Detectors: Photoelectric type complying with UL 268A.

Weatherproof Duct Housing Enclosure: NEMA 250, Type 4X; NRTL listed for use with the supplied detector. Furnish with sampling tubes and relay fan shutdown. NOTIFICATION APPLIANCES

Combination devices shall be factory-integrated audible and visible devices in a single-mounting

Horns: Electric-vibrating-polarized type, 24-V dc; with provision for housing the operating mechanism behind a grille. Comply with UL 464. Horns shall produce a sound-pressure level of 90 dBA, measured 10 feet (3 m) from the horn, using the coded signal prescribed in UL 464 test protocol. Visible Notification Appliances: Xenon strobe lights comply with UL 1971, with clear or nominal white polycarbonate lens mounted on an aluminum faceplate. The word "FIRE" is engraved in minimum 1-inch- (25-mm-) high letters on the lens. Furnish with white faceplate and 15/30/75/110 cd field selectable output

EXECUTION

EQUIPMENT INSTALLATION

Comply with NFPA 72 for installation of fire-alarm equipment. Equipment Mounting: Install fire-alarm control unit and annuciator on finished floor with tops of cabinets

not more than 72 inches (1830 mm) above the finished floor. Audible Alarm-Indicating Devices: Install 80" above the floor or 6" below ceiling, whichever is lower. Install bells and horns on flush-mounted back boxes with the device-operating mechanism concealed

behind a grille. Visible Alarm-Indicating Devices: Install adjacent to each alarm bell or alarm horn and at 80" above the floor or 6" below ceiling, whichever is lower.

Manual Fire Alarm Boxes: Install at 48" to the top of the device.

10233 Millstone Drive, #4112 Lenexa, Kansas 66220 Phone: 816-916-4675

Email gpg@gegrp.net

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.



RELEASED FOR CONSTRUCTION

Lee's Summi

Dev Anand President & CEO

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THIS DRAWING has been prepared by the Architect, or prepared under his direct supervision as an instrument of service and is intended for use only on this project. Al Drawings, Specifications, ideas and designs, including the overall layout, form, arrangement, and composition of spaces and elements portraved, constitute the original, unpublished Work of the Architect. Any reproduction, use, or disclosure of the information contained herein without the written consent of the Architect is strictly prohibited.

COMPLY WITH all laws, codes, ordinances and regulations with authorities having jurisdiction and with requirements of the Landlord. if applicable. Do not start Work until all permits and required approvals are obtained

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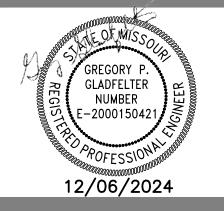
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PROJECT NO. 231206 DRAWING ISSUANCE

SHELL PERMI

SHEET NUMBER