

MAIN STREET BUILDING IMPROVEMENTS

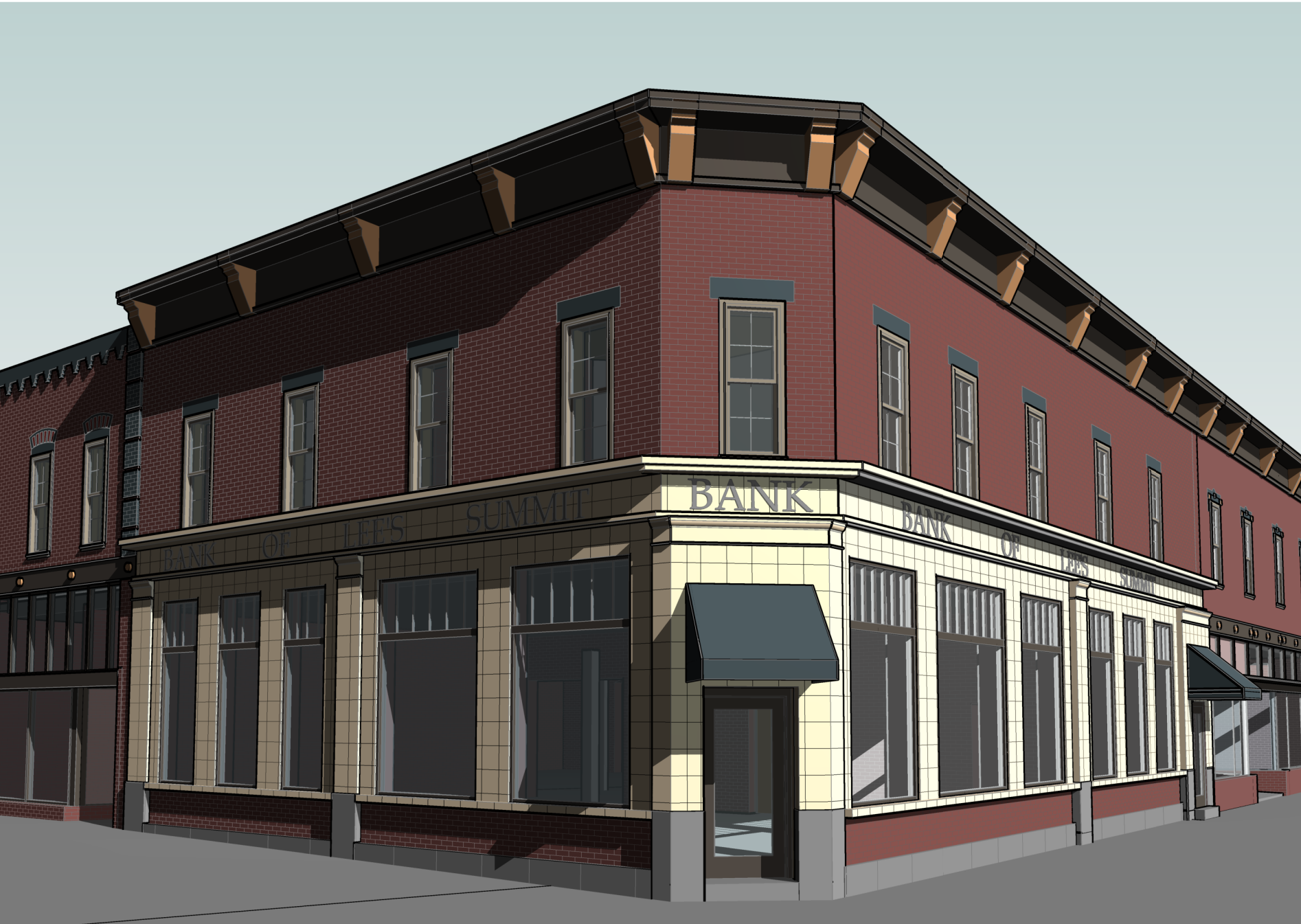
230 SW MAIN ST.
LEE'S SUMMIT, MO 64063

PERMIT DOCUMENTS

21 APRIL, 2022

COLLINS WEBB #: 21121

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OWNER

DRAKE DEVELOPMENT LLC
7200 W 132ND ST, SUITE 150,
OVERLAND PARK, KS 66213
P: 913.662.2630
www.drakekc.com

ARCHITECT

COLLINS WEBB ARCHITECTURE
307B SW MARKET ST.
LEE'S SUMMIT, MISSOURI 64063
P: 816.249.2270
www.collinsandwebb.com

CIVIL ENGINEER

ENGINEERING SOLUTIONS
50 SE 30TH ST.
LEE'S SUMMIT, MO 64082
P: 816.623.9888
www.es-kc.com

STRUCTURAL ENGINEER

LEIGH & O'KANE
250 NE MULBERRY SUITE 201
LEE'S SUMMIT, MO 64086
P: 816.444.3144
www.leok.com

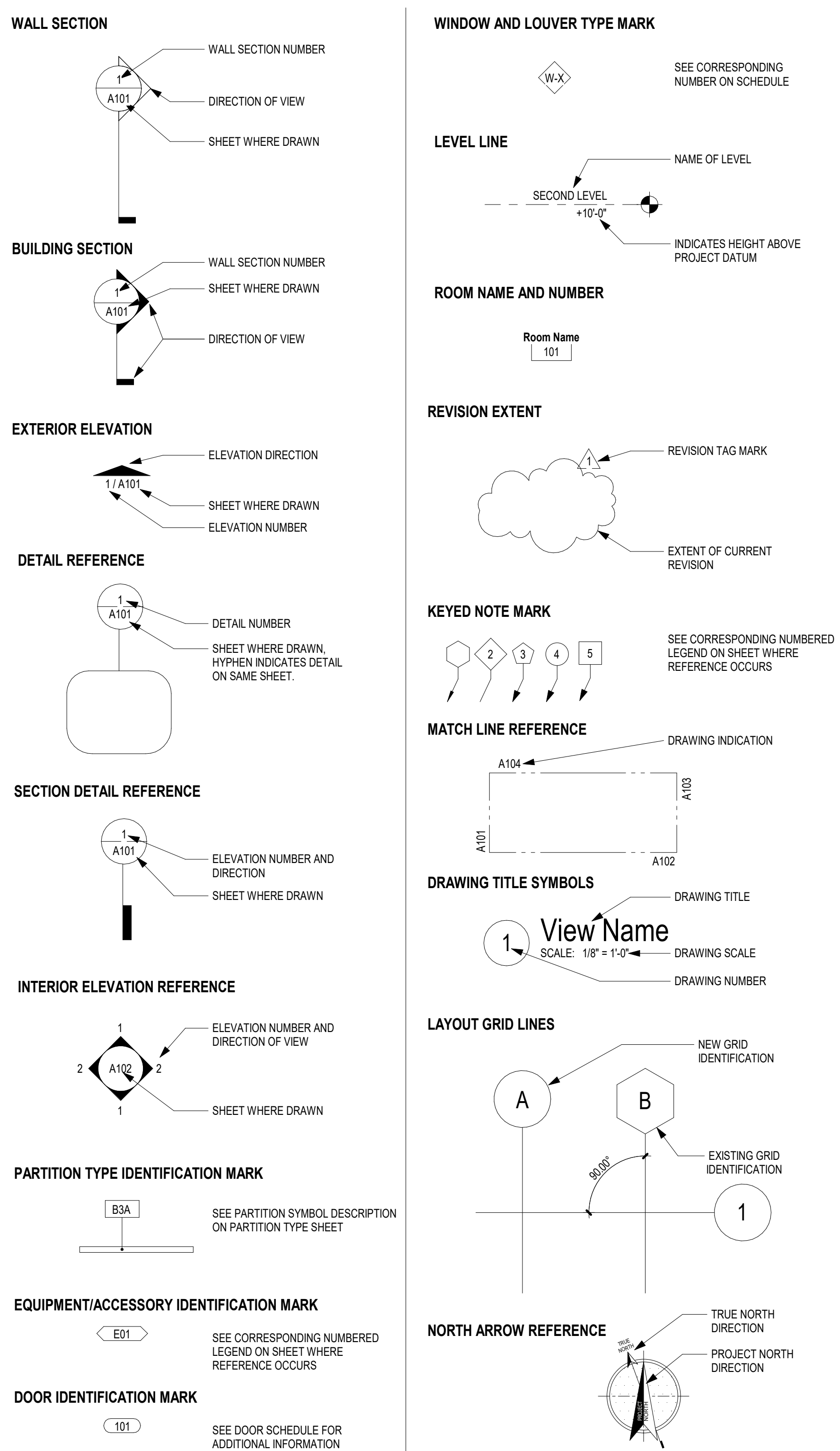
MEP ENGINEER

PKMR ENGINEERS
13300 W 98TH ST
LENEXA, KS 66215
P: 913.492.2400
www.pkmreng.com

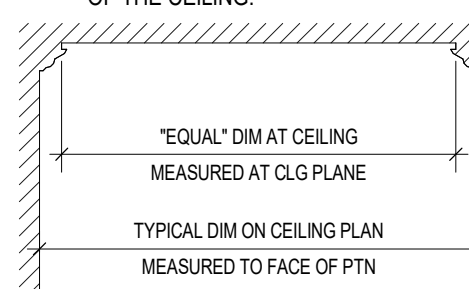
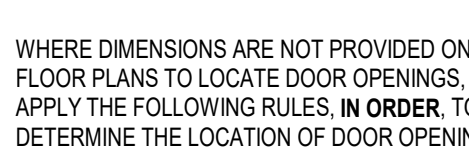
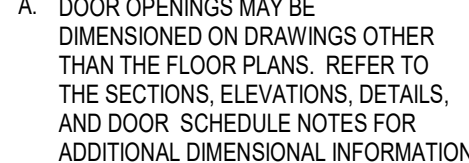
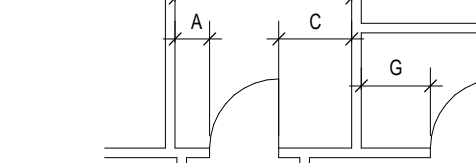
TYPICAL ARCHITECTURAL REFERENCE SYMBOLS

A	E	I	P	S
AB ANCHOR BOLT	EA EACH	IN INCH	PA PART	SPKLR SPRINKLER
AC ACQUISAS	EDR EQUIPMENT DRAWING	NCAND NCANDDESCENT	PBD PARTBLEND	SQ SQUARE
TCT ACQUISAS	EJ EQUIPMENT JOINT	EDGE EDGE INCLUDING	PCV PRIVATE TELEPHONE EXCHANGE	SS SANITARY SEWER
ACD ACQUISAS	EFS EXTERIOR INSULATION FINISH SYSTEM	INFO INFORMATION	PCF POUNDS PER CUBIC FOOT	SSK SERVICE SINK
ADL ADDITIONAL	EJ ELASTIC	INSUL INSULATION	PBX POUNDS PER CUBIC INCH	SST STAINLESS STEEL
ADH ADHESIVE	ELAST ELASTOMERIC	INTR INTERIOR	PERF PERFORATED	ST STREET
ADJ ADJUTANT	ELEV ELEVATOR	INVT INVERT	PERM PERMETER	STN STATION
ADJ ADJUTANT	EMER EMERGENCY	IVT INTRAVENOUS TRACK	PERM PERMANENT	STAG STAGGERED
AFS ABOVE FINISH FLOOR	ENCL ENCLASURE		PERP PERPENDICULAR	STC STEEL TRANSMISSION COEFFICIENT
AFS ABOVE FINISH GRADE	ENGR ENGINEER		PL PLASTER	STD STANDARD
AFS ABOVE FINISH SLAB	EOS EDGE OF SLAB	JAN JANITOR	PLAS PLASTER, PLASTIC	STL STEEL
AGGR AGGREGATE	EPL ELECTRICAL PANEL	JST JOINT	PLBG PLUMBING	STR STORAGE
AL ALUMINUM	EPDM ETHYLENE PROPYLENE DIENE MONOMER		PLF POUNDS PER LINEAR FOOT	STRT STANCHION
ANOD ANODIZED	EQ EQUAL		PLY PLYWOOD	STS SELF-TAPPING STEEL
APPROX APPROXIMATE	EQSP EQUIP. SPACED		PNEU PNEUMATIC	SUS SUSPENDED
ARCH ARCHITECTURAL	EQV EQUIVALENT	KG KILOGRAM	PNL PANEL	SUSP SUSPENDED CEILING
ASPH ASPHALT	ESCAL ESCALATOR	KIT KITCHEN	PNL BD PANEL BOARD	SV SERVICE
AT AT	EST ESTIMATED	KPL KICK PLATE	PNT PT	SW SWIMMING
AVG AVERAGE	EW ELECTRIC WATER COOLER	KS KNEE SPACE	PORT PORTABLE	SYN SYNTHETICAL
	EXC EXCAVATED		PUSH PUSH	T T
	EXH EXHAUST		PPM PARTS PER MILLION	T TREAD
	EXH EXIST. (E)		PR PAIR	T&B TOP AND BOTTOM
BB BULLETIN BOARD	EXP EXPANSION	L LAB LABORATORY	PREP PRECAST	T&G TONGUE AND GROOVE
BD BOARD	EXPJ EXPANSION JOINT	LAM LAMINATE, LAMINATION	PREFAB PREFABRICATION	TC TOP OF CONCRETE, TOP OF CURB
BTWN BETWEEN	EXT EXTERIOR	LAV LAVATORY	PRKRG PARKING	TD TRENCH DRAIN
BTUM BUTYRUM	EX-BR EXISTING BRICK	LB LB	PRJ PROJECT	TEP TELEPHONE
BLK / BLKG BLOCK / BLOCKING		LE LEAD	PROP PROPERTY	TEMP TEMPORARY
BLD BUILDING	FF FACE TO FACE	LED LIGHT EMITTING DIODE	PSF POUNDS PER SQUARE FOOT	THM THERM
BM BENCHMARK	FA FIRE ALARM	LG LENGTH	PTS POUNDS PER SQUARE INCH	THK THICK, THICKNESS
BMD BOTTOM OF METAL DECK	FAS FIRE ALARM STATION	LN LINEAR	PNT PANT / PAINTED	THRES THRESHOLD
BOT BOTTOM	FB FLAT BAR	LT LIGHT	PTD PARTITION	THRU THROUGH
BOS BOTTOM OF STEEL	FCU FAN COIL UNIT	LD LINE D	PTS PNEUMATIC TUBE STATION	THU THUNDER
BOS BEARING	FD FLOOR DRAIN	LP LOW POINT	PVC POLYVINYL CHLORIDE	TO TOP OF
BSMT BASEMENT	FDC FIRE DEPARTMENT CONNECTION	LT LIGHT	PVG PAVING	TOR TOP OF RAILING
BUR BUILT UP ROOFING SYSTEM	FDN FOUNDATION	LW LIGHT WEIGHT	PVMT PAVEMENT	TOT TOP OF
	FEC FIRE EXTINGUISHER CABINET	LVR LOUVER	PWR POWER	TOW TOP OF WALL
	FE FIRE EXTINGUISHER			TP TOP OF PAVEMENT
	FF FINISH FACE	M M	Q QUARRY TILE	TPH TPOLE PAPER HOLDER
C CHANNEL	FF FINISH GRADE	M M	QTY QUANTITY	TRANS TRANSPARENT
CAB CABINET	FFH FIRE HOSE CABINET	M M	QTR QUARTER	TIB TELEPHONE TERMINAL BOARD
CL CL	FFHFC FIRE HOSE / FIRE EXTINGUISHER CABINET	MACH MACHINE	QTY QUANTITY	TIV TELEVISION
CB CATCH BASIN	FHM FLAT HEAD MACHINE SCREW	MATL MATERIAL		TYP TYPICAL
CSK CASK	FHW FLAT HEAD WOOD SCREW	MAX MAXIMUM		U TOP OF WALL
CCT CUBICLE CURTAIN TRACK	FLAM FLAMMABLE	MC MEDICINE CABINET	R RISER	UC UNDER COUNTER
CTV CLOSET	FLASH FLASHING	MDO MEDIUM DENSITY OVERLAY	RA RETURN AIR	UNF UNFINISHED
CSP CORNER GUARD	FLEX FLEXIBLE	MECH MECHANICAL	RAD RADIUS	UNL UNLESS OTHERWISE NOTED
CEM CEMENT, CEMENTITIOUS	FLOOR FLOOR	MD MEDIUM	RB RESILIENT BASE	UNL UNLIMITABLE POWER SUPPLY
CER CERAMIC	FLOX FLOXESCENT	MET MTL METAL	RCP REFLECTED CEILING PLAN	URN URINAL
CHB CHALKBOARD	FO FACE OF	MEMB MEMBRANE	RCT RECEPTACLE	UTIL UTILITY
CL CL	FR FIRE RETARDANT TREATMENT	MFR / MFG MANUFACTURER	RO ROOF DRAIN	V V
CL / CL CENTER LINE	FRZ FREEZER	MH MANHOLE	RECT RECTANGULAR	VAC VACUUM
CLG CEILING	FRR FOLDING SHOWER BENCH	MIN MINIMUM	REF REFERENCE	VAL VALVE BOX
CLR CLEAR	FASTNER FASTENER	MISC MISCELLANEOUS	REFR REFRIGERATOR	VCT VIT. VIT. COMPOSITION TILE
CLO CLOSET	FT FOOT, FEET	MLDG MOLDING	REG REGISTER	VERT VERTICAL
CMU CONCRETE MASONRY UNIT	FTG FOOTING	MM MILLIMETERS	RENF REINFORCE (D) (ING) (MENT)	VERT VERTICAL
COL COLD	FURN FURNITURE	MOD MODULATORY OPENING	REQ REQUIRED	VIT VITREOUS
COL COLD WATER	FTX FIXTURE	MOD MODULE, MODULAR	REQ REQUIREMENT	VPC VENT PIPE
CNTL COUNTER		MTD MOUNTED	RESIL RESILIENT	VOL VOLUME
CSK COUNTERSINK		MTG MOUNTING	RET RETURN	VPC VINYL WALL COVERING
CONF CONFERENCE	G GAS	MVBL MOVABLE	REV REVISION	W W
CONN CONNECTION	GAL GALLON	MULL MULLION	RH RESILIENT FLOORING	W WEST
CONSTR CONSTRUCTION	GALV GALVANIZED		RHMS ROUND HEAD MACHINE SCREW	W WITH
CONT CONTINUOUS	GB GRAB BAR	(N) NEW	RHWS ROUND HEAD WOOD SCREW	W/O WITHOUT
CONTR CONTRACTOR	GC GENERAL CONTRACTOR	NA NOT APPLICABLE	RM ROOM	WW WALL TO WALL
CONTR CONTRACTOR	GFCCI GROUND FAULT CIRCUIT INTERRUPTER	NAT NATURAL	RND ROUND	WANS WANSICOT
CG CORNER GUARD	GFRC GLASS FIBER REINFORCED CONCRETE	NE NORTH/EAST	RO ROUGH OPENING	WC WATER CLOSET, WALL COVERING
CORR CORRUGATED CORRUGOR	GFRG GLASS FIBER REINFORCED GYPSUM	NO NOT IN CONTRACT	ROW RIGHT OF WAY	WDO WOOD
CUBIC CUBIC	GLASS GLASS	NR NUMBER	RWL RAIN WATER LEADER	WGL WGL GLASS
	GLU LAM GLUE LAMINATED	NOM NOMINAL		WCHR WHEELCHAIR
D DEPTH	GLZ GLAZING	NR NOISE REDUCTION COEFFICIENT	S SOUTH	WM WIRE MESH
DBL DOUBLE	GR GRADE OR GRADING	NTS NOT TO SCALE	SA SUPPLY AIR	WO WHERE OCCURS
DBLACT DOUBLE ACTING	GVL GRAVEL	OW OVERALL	SB SPLASH BLOCK	WO WITHOUT
DEG DEGREE	GYP GYPSUM	OD OUTSIDE DIAMETER	SC SOLID CORE	WP WATERPROOF
DEMO DEMOLISH	GYP BD GYPSUM BOARD	OF OWNER FURNISHED CONTRACTOR INSTALLED	SCHED SCHEDULE	WPT WORKING POINT
DEPT DEPARTMENT	GYP PLAS GYPSUM PLASTER	OC ON CENTER	SCRN SCREEN	WR WATER RESISTANT
DET DETAIL	H HIGH	OD OUTSIDE DIAMETER	SE SE	WSCT WANSICOT
DF DRINKING FOUNTAIN	H HOSE BIBB	OF OWNER FURNISHED CONTRACTOR INSTALLED	SE SE	WST WET STANDEP
DIA DIAGONAL	HC HOLLOW CORE	OFNG OWNER FURNISHED-OWNER INSTALLED	SECT SECTION	WT WEIGHT
DIFF DIFFUSER	HD HEAD	OPN OPENING	SEG SEGMENT	WTHPRF WEATHERPROOF
DIM DIMENSION	HDB HARDBOARD	OPP OPPOSITE	SEP SEPARATION OR SEPARATE	WTRF WATERPROOF
DIM PT DIMENSION POINT	HDW HDW	ORD OVERFLOW ROOF DRAIN	SEP JT SEPARATION JOINT	WWF WELDED WIRE FABRIC
DSP DISPENSER	HDW HDW	OVHD OVERHEAD	SHT SHEET SHEETING	WWM WELDED WIRE MESH
DST DISTANCE	HGT HEIGHT	OZ OUNCE	SHR SHOWER	
DK DECK	HGT HT		SHV SHELVES, SHELVING	X X
DN DOWN	HNDRL HOLLOW		SM SIMILAR	XFRM TRANSFORMER
DRN DRAIN, DOOR	HNDRL HOLLOW		SNK SINK	
DSP DRY STANDEP	HORIZ HORIZONTAL		SMS SHEET METAL SCREW	Y Y
DT DRAINERY TRACK	HPT HIGH POINT		SPC SPACE, SPACED, SPACING SPECIFICATION	YD YARD
DTL DRAWING	HVC HVAC			
DW DW	HWT HOT WATER			
DWG DWGDS				
DWGDS DRAWING / DRAWINGS				

TYPICAL ARCHITECTURAL REFERENCE SYMBOLS

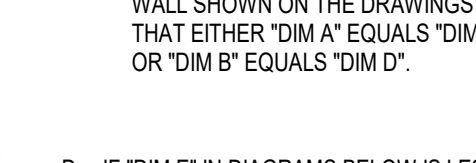


ARCHITECTURAL DIMENSIONING CONVENTIONS

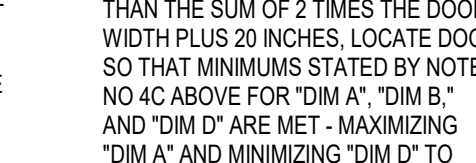
- THE EXERCISE WHERE TO PLACE ITEMS OF THE WORK FOR THE "APPROXIMATE LOCATION SHOWN." DO NOT SCALE DRAWINGS FOR DIMENSIONAL INFORMATION.
2. ALL ELEMENTS OF THE DRAWINGS MAY NOT BE DRAWN TO EXACT SCALE. ALL DIMENSIONS REQUIRED ARE SHOWN (OR MAY BE DERIVED FROM THICKNESS OR NOTED) ON THE FLOOR PLANS, DETAIL PLANS, ELEVATIONS, SECTIONS, SCHEDULES, CONFIGURATION DETAILS, AND SPECIFICATIONS. (SEE THE NOTES BELOW FOR DIMENSIONING CONVENTIONS USED ON THIS PROJECT).
3. EXERCISE WHERE SPECIFICALLY NOTED TO THE CONTRARY, ALL DIMENSIONS SHOWN ON THE ARCHITECTURAL DRAWINGS CONFORM TO THE FOLLOWING CONVENTIONS:
- A. DIMENSIONS UTILIZING THE "CENTERLINE" SYMBOL ARE MEASURED TO:
- STRUCTURAL OR DIMENSIONAL GRID LINES.
 - CENTERLINE OF CONCRETE OR CONC MASONRY UNIT WALLS [EXCLUSIVE OF FURRING OR APPLIED FINISHES HAVING THICKNESS]. REFER TO THE ARCH PLANS AND SECTIONS, THE STRUCT DRAWINGS, OR PARTITION SCHEDULE TO DETERMINE THE THICKNESS OF CONCRETE OR CONC MASONRY UNIT WALLS.
 - CENTERLINE OF PARTITION ASSEMBLY EXCLUSIVE OF ANY APPLIED FINISHES HAVING THICKNESS WHICH MAY BE ADDED TO SUCH WALLS AT PARTITIONS FRAMED WITH METAL STUDS. REFER TO "PARTITION SCHEDULE" TO DETERMINE THE THICKNESS OF EACH PARTITION TYPE.
 - CENTERLINE OF DOOR, WINDOW, OR LOUVER OPENING.
 - CENTERLINE OF EQUIPMENT OR
 - CENTERLINE OF OTHER FEATURES AS INDICATED.
- B. REFER TO ABBREVIATIONS LEGEND FOR SYMBOL USED TO INDICATE CENTERLINE.
- C. DIMENSIONS UTILIZING THE "FACE-OF" SYMBOL ARE MEASURED TO:
- FACE OF CONCRETE OR CONC MASONRY UNIT WALL EXCLUSIVE OF APPLIED FINISHES HAVING THICKNESS OR FURRING WHICH MAY BE ADDED TO THE FACE OF SUCH WALLS).
 - FACE OF PARTITION ASSEMBLY [EXCLUSIVE OF ANY APPLIED FINISHES HAVING THICKNESS WHICH MAY BE ADDED TO SUCH WALL] AS DEFINED BY THE PARTITION SCHEDULE.
- UNLESS NOTED AS A FACE OF FINISHED OR "CLEAR" DIMENSION (SEE NOTE "E" BELOW), DIMENSIONS ARE NOT MEASURED TO THE FACE OF APPLIED FINISH. REFER TO THE "PARTITION SCHEDULE" TO DETERMINE THE THICKNESS OF EACH PARTITION TYPE.
- INSIDE EDGE OF FINISHED DOOR OPENING. REFER TO THE DOOR SCHEDULE FOR ADDITIONAL DIMENSIONAL INFORMATION.
- D. DIMENSION OR WORK POINT AS INDICATED ON RELATED ARCH DETAIL PLANS, SECTION, ELEVATION, LAYOUT OR CONFIGURATION DETAIL, OR CONSTRUCTION DETAIL.
- D. REFER TO ABBREVIATIONS LEGEND FOR SYMBOL USED TO INDICATE "FACE-OF" DIMENSIONS.
- E. WHERE "FACE OF FINISH" OR "CLEAR" DIMENSIONS ARE SPECIFICALLY NOTED, THE DIM IS MEASURED TO:
- FINISH FACES AT THE MOST NARROW OR CONSTRICTED PORTIONS OF SECTION WHERE DIMENSION IS SHOWN, WHEN THE DIMENSION OCCURS ACROSS AN OPEN SPACE. THIS CASE, A "FACE OF FINISH" DIMENSION IS EQUIVALENT TO A "CLEAR" DIMENSION.
 - FINISH FACES AT THE WIDEST OR MOST EXPANSIVE PORTIONS OF THE SECTION THE DIMENSION IS SHOWN WHEN THE DIMENSION OCCURS ACROSS AN OBJECT OR GROUP OF OBJECTS.
- F. WHERE "EQUAL" DIMENSIONS ARE USED ON REFLECTED CEILING PLANS TO LOCATE CEILING GRID WORK POINTS, MEASURE DIMENSIONS TO:
- EDGE OF THE INDICATED CEILING AT THE FACE OF THE ADJACENT PLANE OF FINISH MEASURED AT THE APPLIED OF THE CEILING.
- NOTE 3 (CONTINUED)
- CAUTION DUE TO THE POSSIBLE APPLICATION OF APPLIED FINISHES - THICKNESS OF WHICH MAY VARY BETWEEN FLOOR AND CEILING AND IS NOT ACCOUNTED FOR EXCEPT AS INDICATED BY "TOP" OR "CLEAR" TYPE DIMENSION SHOWN ON THE FLOOR PLANS - THE CONTRACTOR MUST ADJUST AS NECESSARY, THE FLOOR PLAN DIMENSIONS TO REFLECT THE ACTUAL DIMENSIONS FOUND AT PLANE OF THE CEILING.
- 
4. WHERE DIMENSIONS ARE NOT PROVIDED ON FLOOR PLANS TO LOCATE DOOR OPENINGS, APPLY THE FOLLOWING RULES, IN ORDER, TO DETERMINE THE LOCATION OF DOOR OPENINGS:
- A. DOOR OPENINGS MAY BE DIMENSIONED ON DRAWINGS OTHER THAN THE FLOOR PLANS. REFER TO THE SECTIONS, ELEVATIONS, DETAILS, AND DOOR SCHEDULE NOTES FOR ADDITIONAL DIMENSIONAL INFORMATION.
- B. WHERE THE HINGE SIDE OF A DOOR IS SHOWN ADJACENT TO A WALL OR LINES - PERPENDICULAR TO THE WALL IN WHICH THE DOOR OPENING OCCURS:
- AT DOORS OCCURRING IN METAL FRAMED GLASS BOARD PARTITIONS. LOCATE THE HINGE-SIDE OF THE DOOR FINISHED OPENING 4 INCHES FROM THE FACE [EXCLUSIVE OF APPLIED FINISHES] OF THE CLOSEST PERPENDICULAR WALL OR PARTITION ASSEMBLY.
- 
- AT DOORS OCCURRING IN WALLS OF CONC MASONRY UNIT CONSTRUCTION. LOCATE THE HINGE-SIDE OF THE DOOR FINISHED OPENING 10 INCHES FROM THE FACE [EXCLUSIVE OF APPLIED FINISHES] OF THE CLOSEST PERPENDICULAR WALL OR PARTITION ASSEMBLY.
- 
5. WHERE WALLS AND/OR PARTITIONS OF UNEQUAL THICKNESS BUILT, ALIGN EXPOSED FACES, UNLESS OTHERWISE NOTED:
- 
6. WHERE DOOR OCCURS NOT ADJACENT TO A PERPENDICULAR WALL AND EITHER "DM E" OR "DM F" IN DIAGRAM BELOW IS 16:0' OR LESS, LOCATE DOOR UTILIZING THE FOLLOWING MINIMUM DIMENSIONS:
- DIMENSION A = 16 INCHES MIN
 - DIMENSION B = 12 INCHES MIN
 - DIMENSION C = DOOR WIDTH + 2 INCHES MINIMUM
 - DIMENSION D = 4 INCHES MIN AT METAL FRAMED GYPSUM BOARD PARTITIONS OR - EVEN MULTIPLE OF 1/2\" data-bbox="680 310 950 365"/>

• IF SPACE ALLOWS, CENTER DOOR IN WALL SHOWN ON THE DRAWINGS SO THAT EITHER "DM A" EQUALS "DM C" OR "DM B" EQUALS "DM D".

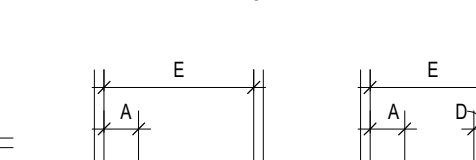
D. IF "DM E" IN DIAGRAMS BELOW IS LESS THAN THE SUM OF 2 TIMES THE DOOR WIDTH PLUS 20 INCHES, LOCATE SIDE OF THAT MINIMUMS STATED BY NOTE NO. 4C ABOVE FOR "DM A", "DM B", AND "DM D" ARE MET - MAXIMIZING "DM A" AND MINIMIZING "DM D" TO THE EXTENT POSSIBLE.



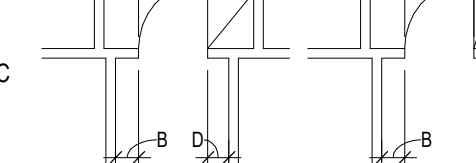
7. WHERE DOOR IS SHOWN LOCATED IN A LARGE EXPOSED OF OPEN WALL "DM E" AND "DM F" IN DIAGRAM BELOW BOTH EXCEED 16:0', PLACE DOOR AT THE APPROPRIATE LOCATION SHOWN ON THE PLANS, WHERE DOOR OCCURS IN ONE WALL, PLACE DOOR AT AN APPROPRIATE LOCATION SHOWN WHILE MINIMIZING "DM F" OR MAXIMIZING "DM E" MODULES ADJACENT TO THE JAMBS.



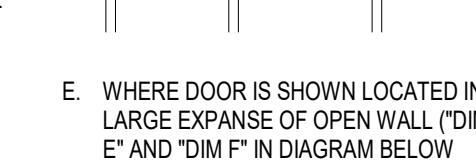
8. WHERE WALLS AND/OR PARTITIONS OF UNEQUAL THICKNESS BUILT, ALIGN EXPOSED FACES, UNLESS OTHERWISE NOTED:



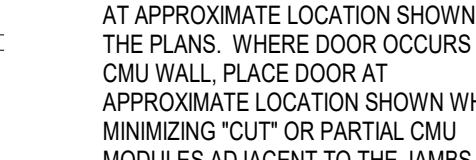
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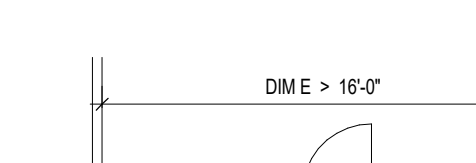
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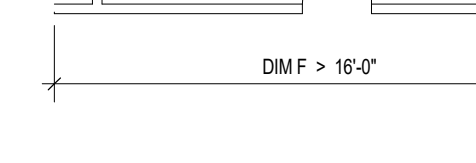
11. WHERE WALLS AND/OR PARTITIONS OF UNEQUAL THICKNESS BUILT, ALIGN EXPOSED FACES, UNLESS OTHERWISE NOTED:



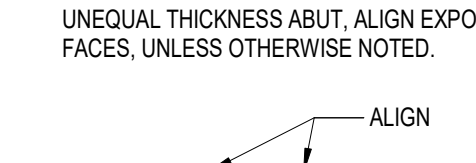
12. WHERE WALLS AND/OR PARTITIONS OF UNEQUAL THICKNESS BUILT, ALIGN EXPOSED FACES, UNLESS OTHERWISE NOTED:



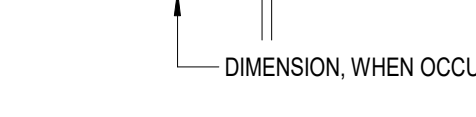
13. WHERE WALLS AND/OR PARTITIONS OF UNEQUAL THICKNESS BUILT, ALIGN EXPOSED FACES, UNLESS OTHERWISE NOTED:



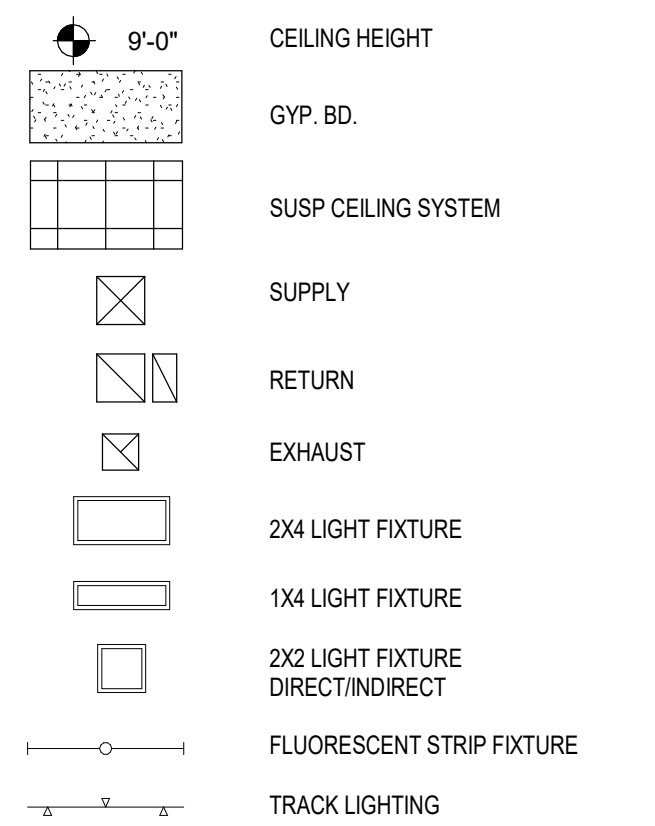
14. WHERE WALLS AND/OR PARTITIONS OF UNEQUAL THICKNESS BUILT, ALIGN EXPOSED FACES, UNLESS OTHERWISE NOTED:



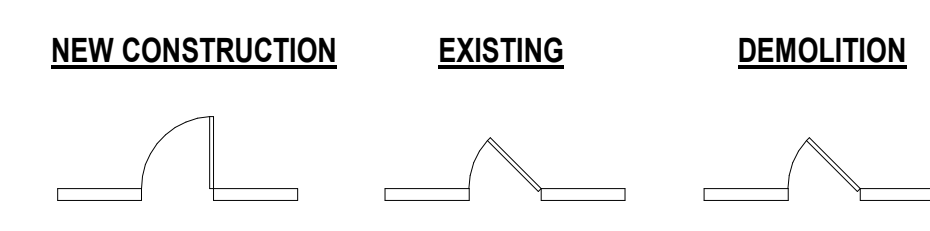
15. WHERE WALLS AND/OR PARTITIONS OF UNEQUAL THICKNESS BUILT, ALIGN EXPOSED FACES, UNLESS OTHERWISE NOTED:



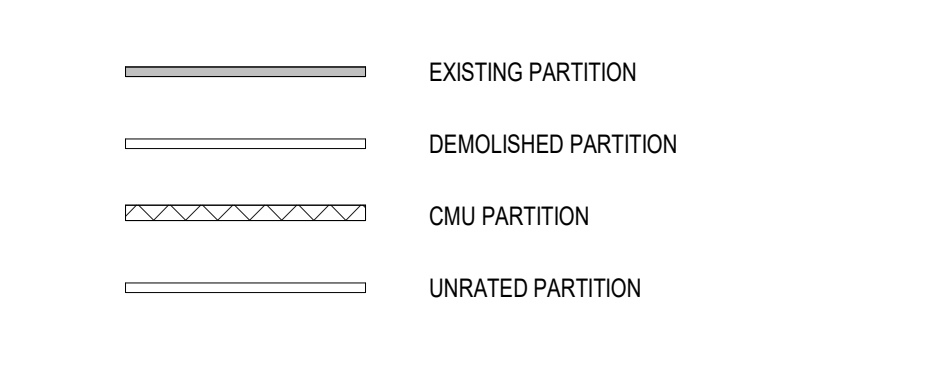
REFLECTED CEILING PLAN SYMBOLS:



TYP DOOR LEGEND



WALL TYPE LEGEND



GENERAL INFORMATION NOTES:

- [illegible]

A11 TYPICAL MOUNTING HEIGHTS

1/4" = 1'-0"

MISCELLANEOUS ACCESSORY TYPICAL MOUNTING HEIGHTS											
NOTE: SOME OBJECTS INDICATED HERE ARE NOT INCLUDED IN THIS PROJECT											
FINISH FLOOR	ACCESSORY TYPE	COMMENTS	FINISH FLOOR	ACCESSORY TYPE	COMMENTS	FINISH FLOOR	ACCESSORY TYPE	COMMENTS	FINISH FLOOR	ACCESSORY TYPE	COMMENTS
	FIRE EXTINGUISHER CABINET	SEMI RECESSED		PAPER TOWEL DISPENSER	SURFACE MOUNTED		PAPER TOWEL DISPENSER	SURFACE MOUNTED		PAPER TOWEL DISPENSER	SURFACE MOUNTED
	MANUAL FIRE PULL	SURFACE MOUNTED		POWER HAND DRYER	SURFACE MOUNTED		PAPER TOWEL DISPENSER & TRASH	SEMI RECESSED		PAPER TOWEL DISPENSER	SURFACE MOUNTED
	FIRE STROBE/LIGHT/BUZZER ALARM	SURFACE MOUNTED					TOILET TISSUE DISPENSER	SURFACE MOUNTED		SANITARY NAPKIN DISPOSAL	SURFACE MOUNTED
	WALL MOUNTED EXIT SIGN	WALL MOUNTED								SANITARY NAPKIN DISPENSER	RECESSED & SURFACE
	WALL MOUNTED HANDRAIL	SURFACE MOUNTED								VANITY SOAP DISPENSER	SURFACE MOUNTED
	WALL CLOCK	SURFACE MOUNTED								FRAMED VANITY MIRROR	SURFACE MOUNTED
	FABRIC COVERED TACK BOARD	SURFACE MOUNTED								DAIPIER CHANGING STATION	SURFACE MOUNTED
	MARKER BOARD	SURFACE MOUNTED								SOAP DISPENSER	COUNTERTOP MOUNTED
	MOP & BROOM HOLDER	SURFACE MOUNTED								FOLDING SHOWER SEAT	SURFACE MOUNTED
	ROBE HOOK	SURFACE MOUNTED								TOILET PARTITION	WALL MOUNTED
	ELAPSED TIME CLOCK	SURFACE MOUNTED								URNAL SCREEN	WALL MOUNTED
	SOAP DISPENSER	SURFACE MOUNTED									
	PAPER TOWEL DISPENSER	SURFACE MOUNTED									
	ALCOHOL DISPENSER	SURFACE MOUNTED									

MISCELLANEOUS ACCESSORY TYPICAL MOUNTING HEIGHTS											
NOTE: SOME OBJECTS INDICATED HERE ARE NOT INCLUDED IN THIS PROJECT											
FINISH FLOOR	ACCESSORY TYPE	COMMENTS	FINISH FLOOR	ACCESSORY TYPE	COMMENTS	FINISH FLOOR	ACCESSORY TYPE	COMMENTS	FINISH FLOOR	ACCESSORY TYPE	COMMENTS
	CLOSET HANGAR ROD & SHELF	WALL MOUNTED		SHOWER MIXING VALVE	WALL MOUNTED		SHOWER HEAD	WALL MOUNTED		HAND HELD SHOWER	WALL MOUNTED
	WALL PHONE	SURFACE MOUNTED								LAVATORY	WALL MOUNTED
	TELEPHONE HOUSING	SURFACE MOUNTED								LAVATORY	COUNTER MOUNTED
	CUP DISPENSER	SURFACE MOUNTED								CHILDREN'S DRINKING FOUNTAIN	WALL MOUNTED
	WALL SWITCH	SURFACE MOUNTED								SINGLE DRINKING FOUNTAIN	WALL MOUNTED
	TELEPHONE OUTLET	SURFACE MOUNTED								DOUBLE DRINKING FOUNTAIN	WALL MOUNTED
	RECEPTACLE/TELEPHONE/ DATA	SURFACE MOUNTED								TOILET	WALL/FLOOR MOUNTED
	RECEPTACLE/TELEPHONE/ DATA	SURFACE MOUNTED								URNAL	WALL MOUNTED
	SPECIALTY EQUIP (IE THERMOSTAT CARD READER, INTERCOM)	SURFACE MOUNTED									
	ELEVATOR CALL BUTTON	SURFACE MOUNTED									
	ELEVATOR VISIBLE SIGNAL INDICATOR	SURFACE MOUNTED									
	TACTILE CHARACTER INDICATOR	SURFACE MOUNTED									
	PANIC BAR	SURFACE MOUNTED									
	DOOR PULL	SURFACE MOUNTED									
	DOOR LATCH	SURFACE MOUNTED									
	ADA DOOR OPERATOR	VARIES									

GRAB BAR TYPICAL MOUNTING HEIGHTS & TOILET ACCESSORY PLANS

NOTE: SOME OBJECTS INDICATED HERE ARE NOT INCLUDED IN THIS PROJECT

FINISH FLOOR	ACCESSORY TYPE	COMMENTS	FINISH FLOOR	ACCESSORY TYPE	COMMENTS
	ADA TOILET GRAB BAR	SURFACE MOUNTED		SHOWER STALL GRAB BAR	SURFACE MOUNTED
				ROLL-IN SHOWER STALL GRAB BAR	SURFACE MOUNTED
				TYPICAL ACCESSORIES AT ACCESSIBLE TOILET	NOTE: SANITARY NAPKIN DISPOSAL AT WOMEN'S & UNISEX ONLY

TOILET ACCESSORY TYPICAL MOUNTING HEIGHTS

NOTE: SOME OBJECTS INDICATED HERE ARE NOT INCLUDED IN THIS PROJECT

FINISH FLOOR	ACCESSORY TYPE	COMMENTS	FINISH FLOOR	ACCESSORY TYPE	COMMENTS
	PAPER TOWEL DISPENSER	SURFACE MOUNTED		PAPER TOWEL DISPENSER	SURFACE MOUNTED
	POWER HAND DRYER	SURFACE MOUNTED		PAPER TOWEL DISPENSER & TRASH	SEMI RECESSED
				TOILET TISSUE DISPENSER	SURFACE MOUNTED
				SANITARY NAPKIN DISPOSAL	SURFACE MOUNTED
				SANITARY NAPKIN DISPENSER	RECESSED & SURFACE
				VANITY SOAP DISPENSER	SURFACE MOUNTED
				FRAMED VANITY MIRROR	SURFACE MOUNTED
				DAIPIER CHANGING STATION	SURFACE MOUNTED
				SOAP DISPENSER	COUNTERTOP MOUNTED
				FOLDING SHOWER SEAT	SURFACE MOUNTED
				TOILET PARTITION	WALL MOUNTED
				URNAL SCREEN	WALL MOUNTED

PLUMBING FIXTURE TYPICAL MOUNTING HEIGHTS

NOTE: SOME OBJECTS INDICATED HERE ARE NOT INCLUDED IN THIS PROJECT

FINISH FLOOR	ACCESSORY TYPE	COMMENTS	FINISH FLOOR	ACCESSORY TYPE	COMMENTS
	SHOWER MIXING VALVE	WALL MOUNTED		SHOWER HEAD	WALL MOUNTED
				HAND HELD SHOWER	WALL MOUNTED
				LAVATORY	WALL MOUNTED
				LAVATORY	COUNTER MOUNTED
				CHILDREN'S DRINKING FOUNTAIN	WALL MOUNTED
				SINGLE DRINKING FOUNTAIN	WALL MOUNTED
				DOUBLE DRINKING FOUNTAIN	WALL MOUNTED
				TOILET	WALL/FLOOR MOUNTED
				URNAL	WALL MOUNTED

J10 FE CABINET

1/2" = 1'-0"

G10 FIRE EXTINGUISHER

1/2" = 1'-0"

G9 HANDRAIL @ STAIRS AND RAMPS

3/4" = 1'-0"

J7 TYP. DOOR APPROACH CLEARANCES

1/2" = 1'-0"

G7 TYPICAL BLOCKING DETAILS

3/4" = 1'-0"

G2 BLOCKING SECTION

3" = 1'-0"

E12 SINK IN COUNTER CLEARANCES

1/2" = 1'-0"

E10 ACCESSIBLE TOILET STALL

1/2" = 1'-0"

E8 ACCESSIBLE CLEAR FLOOR SPACE

1/2" = 1'-0"

E6 HANDRAIL CLEARANCES

1 1/2" = 1'-0"

E4 E.W.C. - CLEAR SPACE

1/2" = 1'-0"

E2 E.W.C. - SECTION

1/2" = 1'-0"

GENERAL NOTES

ACCESSIBILITY GUIDELINES:

- NOTE: ALL DIMENSIONS ARE MEASURED FROM FLOOR, UNLESS NOTED OR SHOWN OTHERWISE.
- ADA UNOBSTRUCTED REACH RANGES: ADA FORWARD REACH = 48" MAX. & 15" MIN. ADA SIDE REACH = 48" MAX. & 15" MIN.
- ELEVATORS: STANDARD CALL BUTTONS: 36" TO 48" TO C.L. & PROTRUDE 1" MAX. ADA CALL BUTTONS: 42" TO C.L. (TYP.) & 48" MAX. (3/4" SMALLEST DIM.). ADA VISIBLE SIGNALS: 72" MIN. TO C.L. (2 1/2" SMALLEST DIM.). TACTILE SIGNAL ON HOISTWAY: 60" TO BASE OF CHARACTERS W/ TACTILE STAR & 2" HIGH CHARACTERS.
- DOOR HARDWARE (TO CENTER OF HARDWARE): STANDARD MOUNTING HEIGHTS: PUSH PLATES = 42"; PULL HANDLES = 42"; KNOBS/LEVERS = 40"; PANIC EXIT = 42"; CENTERLINE OF BAR, KICKPLATES: WIDTH = DOOR WIDTH MINUS 2"; CENTER HEIGHT = 18" FROM B.O. DOOR THRESHOLDS: STANDARD = 1/2" MAX. AT EXT. SLIDING DOORS = 3/4" MAX. ADA HARDWARE = 34" MIN. TO 48" MAX. DRINKING FOUNTAINS & SPOUTS (TO SPOUT): STANDARD = 40" TYP. 42" MAX. ADA = 38" MAX. (27" MIN. CLEAR KNEE SPACE).
- COUNTERTOPS (TO SINK RIM/ COUNTERTOP): ADA = 28" MIN. TO 34" MAX.
- WATER CLOSETS (TO TOP OF SEAT): STANDARD = 14" TO 15" ADA (TO TOP OF SEAT) = 17" TO 19" ADA FLUSH CONTROLS = 44" MAX.
- URNALS (TO RIM): STANDARD = 24" MAX. ADA = 17" MAX. ADA FLUSH CONTROL S = 44" MAX.
- LAVATORIES (TO SINK RIM/ COUNTERTOP): STANDARD = 38" MAX. ADA = 34" MAX. (29" MIN. CLEAR KNEE SPACE).
- MIRRORS (TO B.O. REFLECTIVE SURFACE): STANDARD = VARIES. ADA = 40" MAX.
- GRAB BARS: ADA (TO TOP OF BAR): WATER CLOSETS = 33" MIN. TO 38" MAX. SHOWERS = 33" MIN. TO 38" MAX. FROM B.O. SHOWER, BATHTUBS: TOP BAR = 33" MIN. TO 38" MAX. BOT. BAR = 8" ABOVE T.O. TUB.
- SHOWER HEADS (FROM FLOOR TO HEAD): STANDARD = 72" TO 84" ADA = SPRAY UNIT W/ HOSE 60" LONG MIN. ADA = FIXED SHOWER HEAD = 48" AFF.
- SHOWER CONTROLS (TO CONTROL AREA): STANDARD = 48" MAX. (TO TOP), ADA = 38" MIN. TO 48" MAX. SHOWER ROD (FROM FLOOR TO C.L.): STANDARD = 78" MAX.
- TOILET ROOM PARTITIONS: TOILETS = 12" TO BOT. & 60" TO 70" TOP. URNALS = 18" TO BOT. & 60" TO TOP.
- TOILET PAPER DISPENSERS (TO C.L. OF OUTLET): STANDARD = 24" ADA = 19" MIN. TO 24" MAX.
- WALL MOUNTED SOAP DISPENSERS (TO C.L. OF PUSH BUTTON): STANDARD = 40" ADA = VARIES. RE-OBSTRUCTED AND UNOBSTRUCTED REACH RANGES: ADA SIDE REACH = 48" MAX. ABOVE SINK IN COUNTER. PAPER TOWEL DISPENSER/WASTE RECEPTACLE (TO TOWEL SLOT): STANDARD = 40" MAX. ADA FORWARD REACH = 48" MAX. & 15" MIN. ADA SIDE REACH = 48" MAX. & 15" MIN.
- WARM AIR HAND DRYER (TO PUSH SWITCH): STANDARD = 44" MAX. ADA FORWARD REACH = 48" MAX. & 15" MIN. ADA SIDE REACH = 48" MAX. & 15" MIN.
- SHOVELS: ADA = 48" MAX.
- COAT HOOKS: STANDARD = 68" ADA = 48" MAX.
- CHALKBOARDS, TACKBOARDS & MARKERBOARDS: STANDARD = 32" TO 36" (TO B.O. BOARD OR CHALKTRAY). STANDARD = 80" (RECOMMENDED TO T.O. BOARD).
- THERMOSTATS & CONTROL DEVICES (TO TOP): ADA FORWARD REACH = 48" MAX. ADA SIDE REACH = 48" MAX. LIGHT SWITCHES & CARD READERS (TO C.L.): LOCATE 6" FROM DOOR JAMB. ADA = 48" MAX.
- CONVENIENCE RECEPTACLES - ELECTRICAL/TELEPHONE/ DATA (TO C.L.): STANDARD = 18" ADA = 15" MIN.
- EXIT LIGHTS - WALL MOUNTED: 2" MIN. BELOW CEILING, 2" MIN. ABOVE DOOR FRAME. EQUAL SPACE FROM CEILING TO TOP OF FRAME.
- FIRE EXTINGUISHERS (TO TOP, U.N.O.): GROSS WT. 40 LBS. OR LESS = 60" MAX. GROSS WT. MORE THAN 40 LBS. = 42" MAX. ADA = 40" MAX. (B.O. CABINET).
- FIRE ALARM PULL STATIONS (TO LEVER): STANDARD = 48" MAX. ADA FORWARD REACH = 48" MAX. ADA SIDE REACH = 48" MAX. SMOKE AND/OR HEAT DETECTORS: STANDARD = CEILING HEIGHT.
- HORN/ SPEAKER VISUAL SIGNALS: STANDARD = 80" AFF. OR BELOW CEILING - WHICHEVER IS LOWER.
- ROOM SIGNAGE (TO C.L.): STANDARD = 60" HIGH AFF. & WITHIN 18" OF LATCH SIDE OF DOOR.

MAIN STREET BUILDING IMPROVEMENTS

230 SW MAIN ST.
LEE'S SUMMIT, MO 64063

PERMIT DOCUMENTS

REVISION DATES:



PROFESSIONAL SEAL

G002

ISSUE DATE: 21 APRIL, 2022
COLLINS WEBB #: 21121

ACCESSIBILITY GUIDELINES

WALL PRIORITY LEGEND

NOTE: THIS LEGEND IS FOR GRAPHIC REPRESENTATION ONLY.

FOUR HOUR FIRE WALL (4FW)
THREE HOUR FIRE WALL (3FW)
TWO HOUR FIRE WALL (2FW)
FOUR HOUR FIRE BARRIER (4FB)
THREE HOUR FIRE BARRIER (3FB)

TWO HOUR FIRE BARRIER (2FB) (INCLUDES THE FOLLOWING):
• TWO HOUR SHAFT ENCLOSURE (2SE)
• TWO HOUR FIRE PARTITION (2FP)

ONE HOUR FIRE BARRIER (1FB) (INCLUDES THE FOLLOWING):
• ONE HOUR SHAFT ENCLOSURE (1SE)
• ONE HOUR FIRE PARTITION (1FP)

SMOKE TIGHT PARTITION (N) (INCLUDES THE FOLLOWING):
• SMOKE TIGHT PARTITION TO SMOKE TIGHT CEILING (XC)
• SMOKE TIGHT PARTITION WITHIN PLENUM ABOVE CEILING (XP)
• SMOKE TIGHT PARTITION SEPARATION OF INTERSTITIAL SPACES (XI)

DETAIL ABUTMENT OF DISSIMILAR WALL

LOWER PRIORITY WALL
HIGHER PRIORITY WALLS SHALL PASS THROUGH A LOWER PRIORITY WALL

INTERSECTION OF RATED WALLS

TAPE & JOINT COMPOUND (TYP)
LOWER PRIORITY WALL
HIGHER PRIORITY WALL
HIGHER PRIORITY WALL
TAPE & JOINT COMPOUND (TYP)
HIGHER PRIORITY WALL

A

LOWER PRIORITY WALL
HIGHER PRIORITY WALL
TAPE & JOINT COMPOUND (TYP)
HIGHER PRIORITY WALL
CONTINUOUS TAPE & SEAL OF HIGHER PRIORITY WALL (TYP)

C

LOWER PRIORITY WALL
HIGHER PRIORITY WALL
TAPE & JOINT COMPOUND (TYP)
HIGHER PRIORITY WALL

E

NOTES:
1. REFER TO WALL TYPES ON SHEET G121-T1 FOR WALL COMPONENTS, NUMBER OF GYPSUM BOARD LAYERS, TYPE OF GYPSUM BOARD, AND OTHER SIMILAR INFO.
2. THE HIGHER PRIORITY WALL SHALL PASS THROUGH THE LOWER PRIORITY WALL.
3. TAPING AND SEALING OF HIGHER PRIORITY WALLS SHALL BE CONTINUOUS.
4. ALTERNATE LAYERS OF GYPSUM BOARD SHALL OVERLAP AT CORNER INTERSECTIONS OF MULTI-LAYERED RATED GYPSUM BOARD PARTITIONS.

FIRE & SMOKE RESISTIVE LEGEND DEFINITIONS

FIRE WALLS (FW)

DEFINITION:
A FIRE RATED WALL THAT IS CONTINUOUS VERTICALLY FROM FOUNDATION TO ROOF TO SEPARATE CONSTRUCTION INTO SEPARATE BUILDINGS.

USE:
FIRE WALLS SERVE TO CREATE SEPARATE BUILDINGS FOR THE FOLLOWING REASONS:
• CONSTRUCTION TYPE VARIES FROM ONE BUILDING TO ANOTHER.
• COMPLIANCE WITH MAXIMUM ALLOWABLE AREA REQUIREMENTS.
• TO SEPARATE BUILDINGS WITH DIFFERENT LEVELS OF FIRE PROTECTION.
• TO ADDRESS A PROPERTY LINE DEFINING DIFFERENT OWNERSHIP.

SPECIAL CONSIDERATIONS:
• THE FIRE WALL REQUIRES SUFFICIENT STRUCTURAL STABILITY UNDER FIRE CONDITIONS TO ALLOW THE COLLAPSE OF CONSTRUCTION ON EITHER SIDE WITHOUT COLLAPSE OF THE WALL.
• OPENINGS ARE REQUIRED TO BE PROTECTED.
• OPENINGS ARE LIMITED BASED ON A PERCENTAGE OF WALL LENGTH.
• EXTENDING THE FIRE WALL THROUGH THE ROOF WITH A PARAPET IS REQUIRED FOR SOME CONSTRUCTION CLASSIFICATIONS.
• THE REQUIRED FIRE RATING OF A FIRE WALL IS BASED ON OCCUPANCY GROUPS AND CLASS OF CONSTRUCTION.
• HARDWARE FOR SWING DOORS SHALL INCLUDE A LATCH AND CLOSER.

FIRE BARRIERS (FB)

DEFINITION:
A FIRE RATED WALL CONSTRUCTED TO RESTRICT THE SPREAD OF FIRE CONTINUITY SHALL BE MAINTAINED FROM TOP OF FLOOR TO UNDERSIDE OF THE FLOOR OR ROOF DECK ABOVE.

USE:
FIRE BARRIERS HAVE THE FOLLOWING APPLICATIONS:
• TO SEPARATE EXIT PASSAGEWAYS.
• OCCUPANCY SEPARATIONS.
• TO SEPARATE INCIDENTAL USE AREAS.
• ISOLATION OF HAZARDOUS.
• TO SEPARATE ROOMS WITH DIFFERENT LEVELS OF FIRE PROTECTION.
• SMOKE BARRIERS AND SHAFT ENCLOSURES ARE FIRE BARRIERS. SEE ADDITIONAL REQUIREMENTS.

SPECIAL CONSIDERATIONS:
• WITHIN SOME CONSTRUCTION CLASSIFICATIONS, CONSTRUCTION THAT PROVIDES STRUCTURAL SUPPORT OF A FIRE BARRIER IS REQUIRED TO BE OF THE SAME HOURLY FIRE RATING AS THE FIRE BARRIER, OR BETTER.
• OPENINGS ARE REQUIRED TO BE PROTECTED.
• HARDWARE FOR SWING DOORS SHALL INCLUDE A LATCH AND CLOSER.

SHAFT ENCLOSURES (SE)

DEFINITION:
A SHAFT ENCLOSURE IS A FIRE BARRIER FORMING THE BOUNDARY OF A VERTICAL SHAFT.

USE:
PROTECT OPENINGS IN FIRE RATED FLOOR/CEILING ASSEMBLIES.

SPECIAL CONSIDERATIONS:
• PENETRATIONS IN SHAFT ENCLOSURES ARE PROHIBITED UNLESS NECESSARY FOR THE FUNCTION OF THE SHAFT. WHERE ALLOWED, OPENINGS ARE REQUIRED TO BE PROTECTED.
• DUCT PENETRATIONS REQUIRE COMBINATION SMOKE AND FIRE DAMPERS EXCEPT FOR EXISTING CONDITIONS THAT ARE GRANDFATHERED.
• HARDWARE FOR SWING DOORS SHALL INCLUDE A LATCH, CLOSER, AND PERIMETER SMOKE SEALS.

WALL TYPE NOTES:

1. RE: LIFE SAFETY PLAN(S) FOR RATED WALL LOCATIONS.
2. WHERE "FIRE-RATED SEALANT" IS INDICATED ON WALL TYPES: PROVIDE FIRE-RATED SEALANT ABOVE TOP TRACK, UNDER BOTTOM TRACK, AT ALL PENETRATIONS (BOTH SIDES), AND AS REQUIRED BY FIRE RATING UL NUMBER.
3. EXTEND FIRE-RATED WALL CONSTRUCTION BEHIND NECESSARY BUILT-IN EQUIPMENT, SUCH AS FIRE EXTINGUISHER CABINETS (FEC), ELECTRICAL, WATER COOLERS (EWC), ELECTRICAL PANELS, ETC. UNLESS NOTED OTHERWISE.
4. PROVIDE AND INSTALL ALL STIFFENERS, BRACING, BACK-UP PLATES AND SUPPORTING BRACKETS REQUIRED FOR THE INSTALLATION OF ALL CASEWORK AND OF ALL FLOOR MOUNTED OR SUSPENDED MECHANICAL, ELECTRICAL OR LABORATORY EQUIPMENT.
5. WHERE HVAC OR OTHER MECHANICAL, ELECTRICAL, AND PLUMBING ITEMS PENETRATE PARTITIONS: STUDS SHALL BE BRACED AND FRAMED TO STRUCTURE AS REQUIRED TO PROVIDE ADEQUATE SUPPORT. ALL PENETRATIONS THROUGH ACoustICAL AND FIRE RATED WALLS SHALL BE SEALED TO PROVIDE FIRE, SMOKE, AND/OR ACoustICAL ISOLATION OF SPACES WITH APPROPRIATE ACoustICAL FIRESTOP MATERIAL.
6. THERE SHALL BE NO BACK-TO-BACK ELECTRICAL, TELEPHONE, OR OTHER OUTLETS, EXCEPT WHERE SPECIFICALLY SHOWN.
7. WALL BASE IS NOT SHOWN ON ALL WALL TYPES FOR CLARITY. REFER TO FINISH SCHEDULE.
8. PROVIDE GLASS-MAT, WATER RESISTANT BACKING BOARD AT ALL WET LOCATIONS.
9. EXCEPT AT FIRE-RATED PARTITIONS, ALL WALL AND COLUMN GYPSUM BOARD FACING SHALL BE HELD AT 5/8 INCH BELOW STRUCTURE, UNLESS NOTED OR SHOWN OTHERWISE.
10. PROVIDE AND INSTALL BLOCKING REQUIRED FOR ALL A.V. EQUIPMENT. G.G. TO COORDINATE WITH TI CONSULTANT FOR FINAL LOCATIONS AND SIZE REQUIREMENTS.
11. COMPRESSIBLE FILLER - ACCEPTABLE MATERIALS WOULD BE FIBERGLASS INSULATION OR FIRESTOPPING VOIDS TO BE COMPLETELY FILLED AND A FIRESTOP SEALANT OVER ANY ENDS. THIS IS TYPICAL FOR ALL ACoustICAL WALL ASSEMBLIES WHERE "COMPRESSIBLE FILLER" IS CALLED FOR. THERE CAN BE NO VOIDS IN THE INSTALLATION.
12. PROVIDE A MIN. MSG-12 STUD FOR ALL VERTICAL LONG SPAN WALL TYPES.

WALL TYPE A

INSTALL FIRESAFING INSULATION TO SEAL TOP OF WALL (RATED WALLS ONLY)

BOTTOM OF DECK
RE: STRUCTURAL
DEEP LEG DEFLECTION/SLIP TRACK

CEILING HT.
RE: RCP (WHERE REQ'D)
5/8" GYP. BD. EACH SIDE

3 5/8" METAL STUD @ 16" O.C. WITH HORIZ. BRACING, AS REQUIRED.

3 1/2" SOUND BATT INSULATION (WHERE REQ'D)

METAL RUNNERS TOP AND BOTTOM

FLOOR

TYPE	WALL DESCRIPTION
A	• 3 5/8" METAL STUD @ 16" O.C. TO DECK ABOVE • 5/8" TYPE "X" GYP. BD. EACH SIDE TO DECK ABOVE • NO SOUND BATT INSUL. • NON RATED
A1	• 3 5/8" METAL STUD @ 16" O.C. TO DECK ABOVE • 5/8" TYPE "X" GYP. BD. EACH SIDE TO DECK ABOVE • 3 1/2" SOUND BATT INSUL. TO FULL HEIGHT OF WALL • ACoustICAL SEALANT AT FLOOR, DECK, & ALL PENETRATIONS • NON RATED
A2	• 3 5/8" METAL STUD @ 16" O.C. TO DECK ABOVE • 2 LAYERS - 5/8" TYPE "X" GYP. BD. EACH SIDE TO DECK ABOVE • 3 1/2" THICK GLASS FIBER BATT INSUL. TO FULL HEIGHT OF WALL • FIRE-RATED SEALANT AT FLOOR, DECK, & ALL PENETRATIONS • 2-HR RATED RE: UL # U419

WALL TYPE E

INSTALL FIRESAFING INSULATION TO SEAL TOP OF WALL (RATED WALLS ONLY)

BOTTOM OF DECK
RE: STRUCTURAL
AS REQUIRED PER WALL TYPE
EXISTING WALL

CEILING HT.
RE: RCP (WHERE REQ'D)
5/8" GYP. BD. ON ROOM SIDE

METAL STUD / HAT CHANNEL @ 16" O.C.
SOUND BATT INSULATION (WHERE REQ'D)

METAL RUNNERS TOP AND BOTTOM

ROOM SIDE **FLOOR**

TYPE	WALL DESCRIPTION
E2	• 3 5/8" METAL STUD @ 16" O.C. TO DECK ABOVE • 5/8" TYPE "X" GYP. BD. ONE SIDE TO DECK ABOVE • NO SOUND BATT INSUL. • NON RATED
E5	• 6" METAL STUD @ 16" O.C. TO DECK ABOVE • 5/8" TYPE "X" GYP. BD. ONE SIDE • NO SOUND BATT INSUL. • NON RATED

WALL TYPE Y

INSTALL FIRESAFING INSULATION TO SEAL TOP OF WALL (RATED WALLS ONLY)

BOTTOM OF DECK
RE: STRUCTURAL

CEILING HT.
RE: RCP (WHERE REQ'D)
LAYERS 5/8" GYP. BD. PER WALL TYPE
CH STUD @ 16" O.C.

1" SHAFT LINER

SOUND BATT INSULATION (SEE TYPE FOR SIZE)

METAL J TRACK TOP AND BOTTOM

FLOOR

TYPE	WALL DESCRIPTION
Y	• 4" C-H METAL STUDS @ 24" O.C. TO DECK ABOVE • 2 LAYER 5/8" TYPE "X" GYP. BD. ONE SIDE TO DECK ABOVE • 1" SHAFT LINER ON SHAFT SIDE TO DECK ABOVE • 3" SOUND BATT INSUL. - FULL HEIGHT OF WALL • FIRE-RATED SEALANT AT FLOOR, DECK, & ALL PENETRATIONS • 2-HR RATED RE: UL DESIGN # U415 (WHERE REQ'D)

FIRE RESISTIVE LEGEND

FIRE WALLS
3FW 3FW 3FW 3FW 3 HOUR FIRE WALL
2FW 2FW 2FW 2FW 2 HOUR FIRE WALL

FIRE BARRIERS
2FB 2FB 2FB 2FB 2 HOUR FIRE BARRIER
1FB 1FB 1FB 1FB 1 HOUR FIRE BARRIER

SHAFT ENCLOSURES
2S 2S 2S 2S 2 HOUR SHAFT ENCLOSURE
1SE 1SE 1SE 1SE 1 HOUR SHAFT ENCLOSURE

FIRE PARTITIONS
1FP 1FP 1FP 1FP 1 HOUR FIRE PARTITION
0.5FP 0.5FP 0.5FP 0.5FP 0.5 HOUR FIRE PARTITION
0.5X 0.5X 0.5X 0.5X 0.5 HOUR CORRIDOR PARTITION

SMOKE BARRIER
SB SB SB SB 1 HOUR SMOKE BARRIER

BEARING WALLS
2BW 2BW 1BW 1BW 2 HOUR BEARING WALL
1BW 1BW 1BW 1BW 1 HOUR BEARING WALL

DESCRIPT.
NUMBER OF OCCUPANTS EXITING
EXIT WIDTH PROVIDED (IN.)
CALCULATED EXIT WIDTH REQ'D (IN.)
MIN. WIDTH OF MEANS OF EGRESS COMPONENT (IN.)
EXIT WIDTH PROVIDED (IN.)
FROM ROOM OR LEVEL
X" - CLEAR WIDTH OF OPENING IN INCHES
F.E.C. FIRE RISER CABINET
F.A.C.P. FIRE ALARM CONTROL PANEL
F.D.C. FIRE DEPARTMENT CONNECTION
K.B. KNOX BOX
AR AREA OF RESCUE ASSISTANCE
ACCESSIBLE EGRESS COMPONENT
EGRESS PATH
FE-1 INDICATES FIRE EXTINGUISHER CABINET(FEC) LOCATION WITH 75'-0" RADIUS COVERAGE AREA. SEE SPECIFICATIONS FOR FE TYPE.
FE-2K INDICATES KITCHEN BAR FIRE EXTINGUISHER (FE) LOCATION WITH 75'-0" RADIUS COVERAGE AREA. SEE SPECIFICATIONS FOR FE TYPE.
FE-3 INDICATES TEMPORARY WALL HUNG FIRE EXTINGUISHER (FE) LOCATION WITH 75'-0" RADIUS COVERAGE AREA. SEE SPECIFICATIONS FOR FE TYPE.
DOOR RATING LEGEND (REFER TO DOOR SCHEDULE)
20 MIN. DOOR
45 MIN. DOOR
90 MIN. DOOR

GENERAL DESCRIPTION

PROJECT NAME: MAIN STREET LANDLORD IMPROVEMENTS
PROJECT LOCATION: 230 SW MAIN ST., LEE'S SUMMIT, MO 64063
COUNTY: JACKSON

COLLINS WEBB ARCHITECTURE
307B SW MARKET STREET
LEES SUMMIT, MISSOURI 64063

APPLICABLE CODES:
INTERNATIONAL BUILDING CODE - 2018 ED.
INTERNATIONAL PLUMBING CODE - 2018 ED.
INTERNATIONAL MECHANICAL CODE - 2018 ED.
INTERNATIONAL FUEL GAS CODE - 2018 ED.
NATIONAL ELECTRICAL CODE - 2017 ED.
INTERNATIONAL FIRE CODE - 2015 ED.
ADA STANDARDS FOR ACCESSIBLE DESIGN - 2010 ED.
ICC/ANSI A117.1: ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES - 2009 ED.

CODE INFORMATION

BUILDING/PROJECT USE:	OFFICE, RESTAURANT	SECTION 309
CONSTRUCTION TYPE	TYPE VB (NON-SPRINKLED)	TABLE 601
OCCUPANCY CLASSIFICATION	GROUP "B", GROUP "A-2"	SECTION 309
SEPARATED MIXED-USE APPROACH		
BASE ALLOWABLE AREA	B: 9,000 SQ. FT. A-2: 6,000 SQ. FT.	TABLE 506.2
FIRST LEVEL	B: 2,440 SQ. FT. A-2: 4,000 SQ. FT.	
SECOND LEVEL	B: 5,720 SQ. FT.	
ALLOWABLE STORIES	2 STORIES - EXISTING	TABLE 504.4
ACTUAL NUMBER OF STORIES	2 STORIES	
ALLOWABLE HEIGHT	40'-0" - EXISTING	TABLE 504.3
ACTUAL HEIGHT IN FEET	29'-10"	

FIRE RESISTIVE REQUIREMENTS

	TABLE/SECTION/REFERENCE
PRIMARY FRAME	0 HRS
NON-BEARING WALLS	0 HRS
BEARING WALLS INT./ EXT.	0 INT. / 2 EXT. HRS
FLOOR CONSTRUCTION (SEPARATING OCCUPANCIES)	0 HRS
CEILING/ROOF	0 HRS
CORRIDORS	0 HRS
SEPARATION BETWEEN 1ST FLOOR "A-2" AND 2ND FLOOR "B"	2 HRS

FIRE EXTINGUISHERS

1. PROVIDE PORTABLE FIRE EXTINGUISHERS IN OCCUPANCIES AND LOCATIONS AS REQUIRED BY THE WISCONSIN FIRE PREVENTION CODE. SEE PLANS FOR SUGGESTED LOCATIONS. NOTIFY ARCHITECT OF ANY PROPOSED RELOCATION OR IF A CONFLICT IS ENCOUNTERED.
2. PORTABLE FIRE EXTINGUISHERS SHALL BE INSTALLED, INSPECTED, AND MAINTAINED IN ACCORDANCE WITH NFPA 10, STANDARD FOR PORTABLE FIRE EXTINGUISHERS.

CEILING HEIGHT NOTES: (IBC 1208)

1. ALL MEANS OF EGRESS TO HAVE A MINIMUM CEILING HEIGHT OF 7'-6" A.F.F., NOR SHALL HAVE ANY PROJECTION FROM THE CEILING BE LESS THAN 6'-8" A.F.F.
2. OCCUPIED SPACES, HABITABLE SPACES AND CORRIDORS SHALL HAVE A CEILING HEIGHT OF NOT LESS THAN 7'-6" A.F.F.
3. BATHROOMS, TOILET ROOMS, KITCHENS, STORAGE ROOMS AND LAUNDRY ROOMS SHALL HAVE A CEILING HEIGHT OF NOT LESS THAN 7'-0" A.F.F.

INTERIOR FINISHES

GROUP A	MAX. FLAME SPREAD	
EXIT ENCLOSURES	CLASS A (0-25)	803.13
LOBBIES & CORRIDORS	CLASS B (26-75)	803.13
ALL OTHER SPACES	CLASS C (76-200)	803.13
TEXTILES	CLASS A (0-25)	805
SMOKE DEVELOPED	0-450	TABLE/SECTION/REFERENCE

NOTE:
Decorative Materials and Trim (including plastics) must comply with IBC Section 906.

GENERAL EXITING REQUIREMENTS

EXIT TRAVEL DISTANCE	200 FEET
DEAD END CORRIDOR	20 FEET
COMMON PATH OF TRAVEL	75' FEET, OR 100' IF OCC. < 50
MIN. CORRIDOR WIDTH	44", OR 36" IF OCC. < 50

POSTING OF OCCUPANT LOAD

EVERY ROOM OR SPACE THAT IS AN ASSEMBLY OCCUPANCY SHALL HAVE THE OCCUPANT LOAD OF THE ROOM OR SPACE POSTED IN A CONSPICUOUS PLACE, NEAR THE MAIN EXIT OR EXIT ACCESS DOORWAY FROM THE ROOM OR SPACE. POSTED SIGNS SHALL BE OF AN APPROVED LEGIBLE PERMANENT DESIGN AND SHALL BE MAINTAINED BY THE OWNER OR AUTHORIZED AGENT.

EXIT REQUIREMENTS

A. REQUIRED CAPACITY	TABLE/SECTION/REFERENCE
1. STAIRS - 0.3" / PERSON	1005.1
2. OTHER COMPONENTS - 0.2" / PERSON	1005.1
B. MINIMUM NUMBER	
1. OCCUPANT LOAD OF 1-500 PERSONS - 2 EXITS PER STORY	1006.3.1
2. OCCUPANT LOAD OF 501-1000 PERSONS - 3 EXITS PER STORY	
3. OCCUPANT LOAD OF MORE THAN 1000 PERSONS - 4 EXITS PER STORY	

SIGNAGE

1. PROVIDE SIGNAGE "IN FIRE EMERGENCY DO NOT USE ELEVATOR, USE EXIT STAIRS" IN ACCORDANCE WITH IBC (3002.3)

OCCUPANT LOAD PER LEVEL

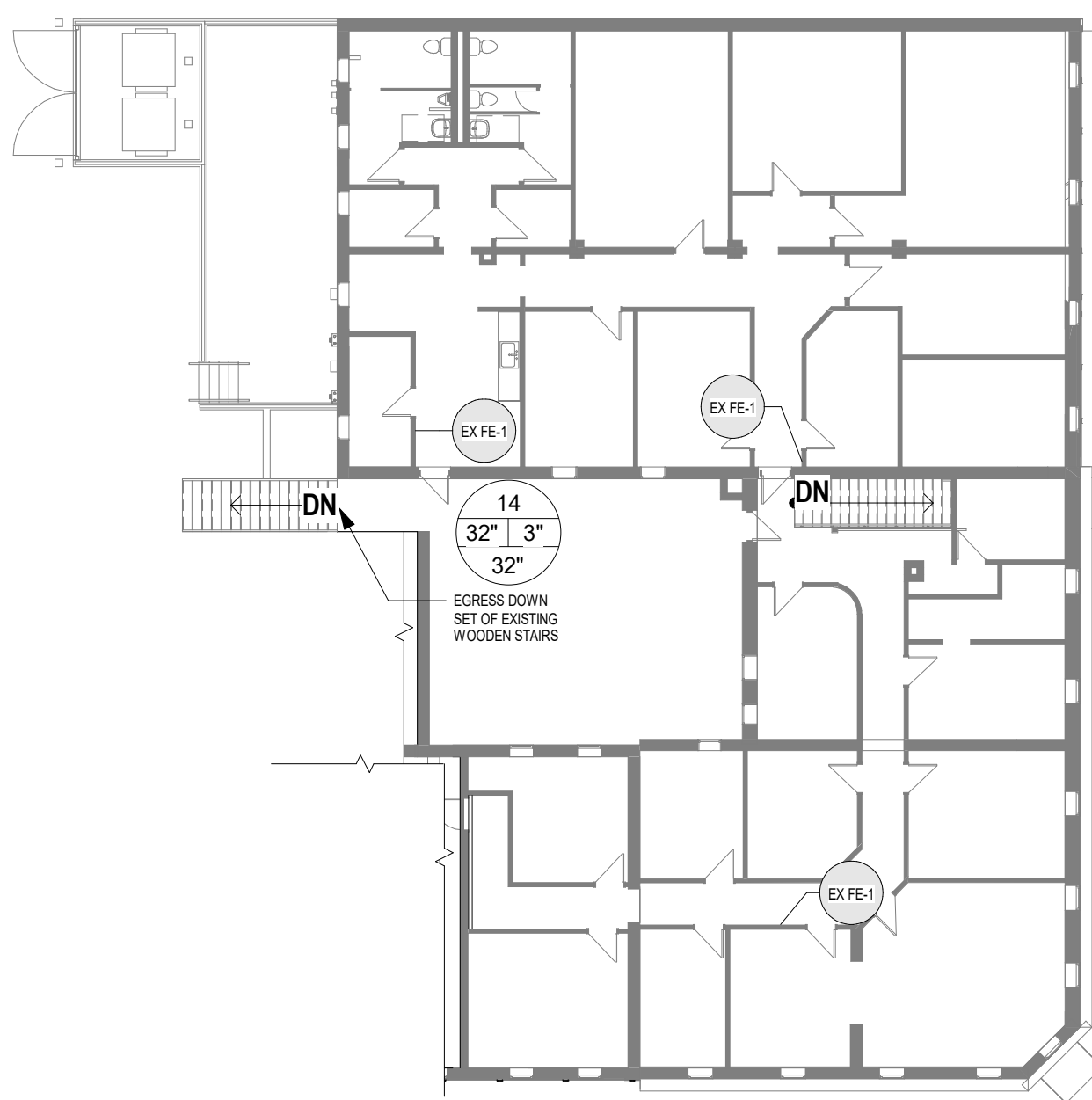
OCCUPANT LOAD : FIRST LEVEL	TABLE/SECTION/REFERENCE
B: OFFICE SQUARE FOOTAGE (2205 SF) A-2: FUTURE RESTAURANT	16 OCC FUTURE T.I. 15 OCC T.I. 150 SF/OCC
EXITS REQUIRED THIS LEVEL: B EXITS PROVIDED THIS LEVEL: A-2 EXITS PROVIDED THIS LEVEL: B EXITS PROVIDED THIS LEVEL: A-2	2 EXITS FUTURE T.I. 2 EXITS 1 EXIT - EXISTING
OCCUPANT LOAD : SECOND LEVEL	
B: OFFICE SQUARE FOOTAGE (4032 SF)	27 OCCUPANTS 150 SF/OCC
EXITS PROVIDED THIS LEVEL:	2 EXIT - EXISTING

TOTAL OCCUPANT LOAD

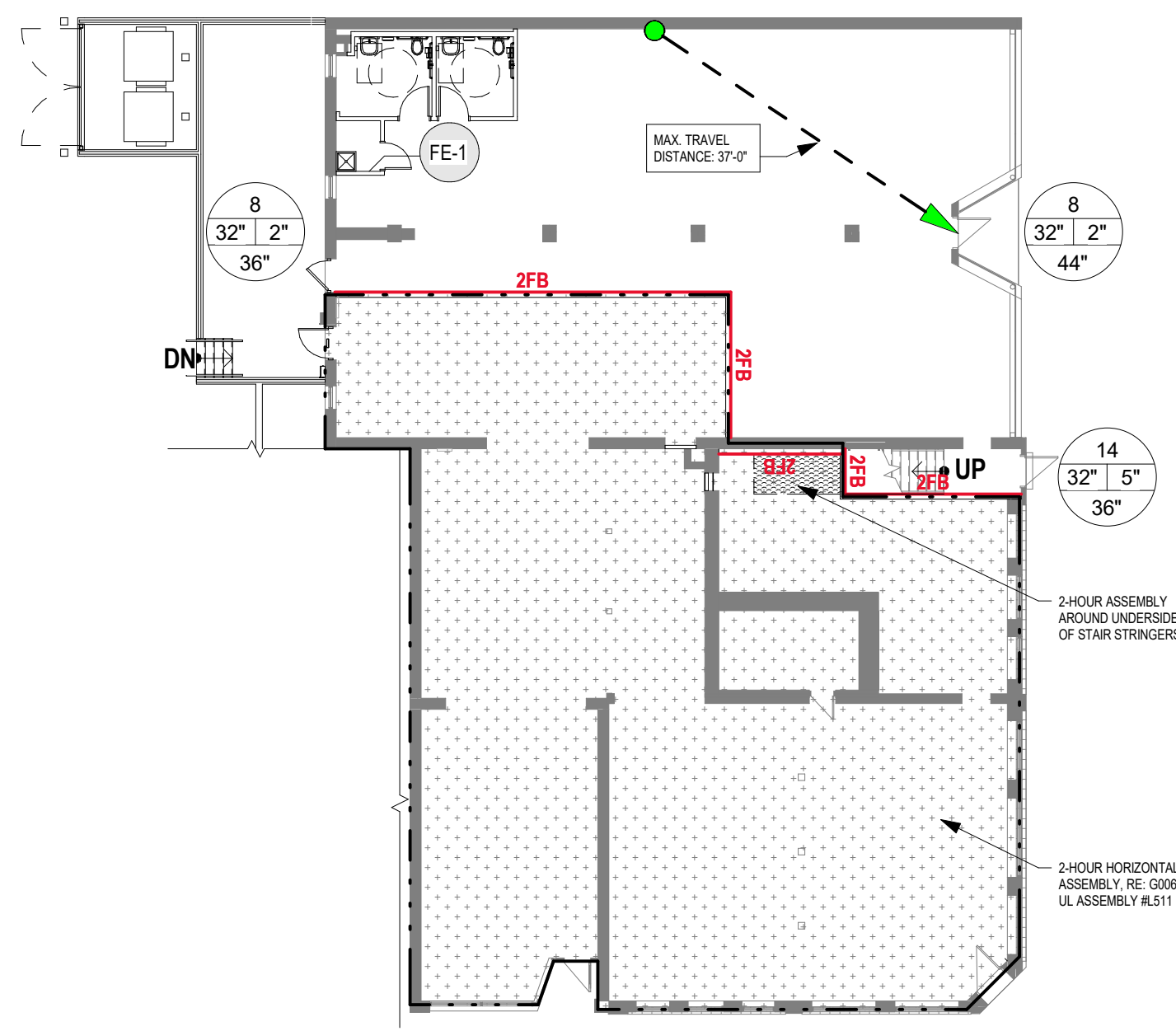
TOTAL OCCUPANT LOAD FOR BUILDING (BUSINESS ONLY): 42 OCCUPANTS

PLUMBING FIXTURE REQUIREMENTS

B OCC WATER CLOSETS	= 1/25 PER FIRST 50, 1/50 FOR 50+ BOTH MALE/ FEMALE				
B OCC LAVATORIES	= 1/40 FOR FIRST 80, 1/80 FOR 80+ BOTH MALE/FEMALE				
B OCC DRINKING FOUNTAIN	= 1/100				
B OCC SERVICE SINK	= 1				
REQUIRED:					
<u>LEVEL</u>	<u>OCCUPANCY</u>	<u>WATER CLOSETS</u>	<u>LAVATORIES</u>	<u>DRINKING FOUNTAINS</u>	<u>SERVICE SINK</u>
1ST FLOOR	BUSINESS	M 8/25 = 32 F 8/25 = 32	M 8/40 = 2 F 8/40 = 2	15/100 = 15	1 REQ
	ASSEMBLY (A-2)	FUTURE	FUTURE	FUTURE	FUTURE
	TOTAL:	1	1	1	1
2ND FLOOR	BUSINESS	M 14/25 = 56 F 14/25 = 56	M 14/40 = 35 F 14/40 = 35	27/100 = 27	1 REQ
	TOTAL:	2	1	1	1
PROVIDED:					
<u>LEVEL</u>		<u>WATER CLOSETS</u>	<u>LAVATORIES</u>	<u>DRINKING FOUNTAINS</u>	<u>SERVICE SINKS</u>
1ST FLOOR		2	2	BOTTLED WATER PROVIDED	1
2ND FLOOR		4	2	BOTTLED WATER PROVIDED	



A5 2ND FLOOR PLAN - LIFE SAFETY
1/16" = 1'-0"



A3 1ST FLOOR PLAN - LIFE SAFETY
1/16" = 1'-0"



MAIN STREET BUILDING IMPROVEMENTS

230 SW MAIN ST.
LEE'S SUMMIT, MO 64063

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REVISION DATES:



PROFESSIONAL SEAL

G003
ISSUE DATE: 21 APRIL, 2022
COLLINS WEBB #: 21121

CODE INFORMATION AND LIFE
SAFETY PLANS

SPECIFICATIONS - PRODUCT & INSTALLATION GENERAL REQUIREMENTS

GENERAL REQUIREMENTS APPLICABLE TO ALL MATERIALS FOR THE PROJECT.

1. NO SUBSTITUTIONS OF MATERIALS WITHOUT COMPLETION OF A SUBSTITUTION REQUEST FORM & APPROVAL OF SUBSTITUTION BY PROJECT MANAGER. FORM CAN BE REQUESTED FROM ARCHITECT.
2. A CONDENSED SET OF SPECIFICATIONS ARE PROVIDED FOR THE PROJECT. STRICT ADHERANCE TO MANUFACTURER REQUIREMENTS AND INSTALLATION ARE REQUIRED TO BE FOLLOWED WITH SECTIONS PROVIDED WITHIN. IF REQUIRED THE ARCHITECT WILL ISSUE ADDITIONAL SECTIONS TO PROVIDE CLARITY TO PRODUCTS OR INSTALLATION REQUIREMENTS.

DIVISION 1 - GENERAL REQUIREMENTS

1. SEE ADMINISTRATIVE SPECIFICATION FOR GENERAL REQUIREMENTS RELATED TO ADMINISTRATION OF THIS CONTRACT.
- A. CONTRACTOR LICENSES**
1. THE CONTRACTOR AND ALL SUBCONTRACTORS INVOLVED IN THE PROJECT SHALL BE REQUIRED TO OBTAIN AND PAY FOR ALL NECESSARY LICENSES AS REQUIRED BY ANY LAW OR AGENCIES HAVING JURISDICTION (AHJ) OVER THE PROJECT.

B. BUILDING PERMITS

1. THE GENERAL CONTRACTOR WILL PAY FOR ALL PERMITS REQUIRED BY ANY AGENCY HAVING JURISDICTION (AHJ) OVER THE PROJECT FOR ALL WORK TO BE PERFORMED BY THE GENERAL CONTRACTOR.

C. UTILITY FEES

1. THE CONTRACTOR SHALL PAY THE NECESSARY FEES TO CONNECT TO EXISTING UTILITIES AT THE PROPERTY LINE OR IN ADJACENT STREETS AND RIGHT OF WAY AS SPECIFIED, NECESSARY AND/OR INCLUDED IN THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL PAY ALL UTILITY COSTS (BILLS) DURING CONSTRUCTION UNTIL OWNER TAKES POSSESSION OF THE FACILITY OR THE FACILITY IS CERTIFIED AS SUBSTANTIALLY COMPLETE.

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT FINISHED SURFACES. PROTECTION FOR FINISHES SUCH AS DOORS, WALLS AND FLOORS SHOULD BE PROVIDED AS REQUIRED. ANY DAMAGES TO THESE AREAS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR OR REPLACE.

E. GENERAL CONDITIONS

1. ANY DISCREPANCY OR CONFLICT WITHIN OR BETWEEN DRAWINGS AND ANY DISCREPANCY OR CONFLICT BETWEEN ANY DRAWING AND ANY SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. NOTWITHSTANDING, DISCREPANCIES OR CONFLICTS NOT BROUGHT TO THE ARCHITECTS AND OWNERS ATTENTION AND CLARIFIED DURING THE BIDDING OF THE PROJECT WILL BE DEEMED TO HAVE BEEN OR PROPOSED IN THE MORE COSTLY OR DIFFICULT MANNER, AND THE BETTER QUALITY OR GREATER QUANTITY OF THE WORK SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH ARCHITECT'S INTERPRETATION.
2. THE GENERAL CONTRACTOR SHALL KEEP A COMPLETE PROTOTYPE SET OF DOCUMENTS ON THE PROJECT SITE AT ALL TIMES FOR REFERENCE DURING CONSTRUCTION.
3. THE GENERAL CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, USING THE CONTRACTOR'S BEST SKILLS AND ATTENTION. THE GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR HAVE AND CONTROL OVER CONSTRUCTION MEANS AND METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
4. THE GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR HAVE AND HAVE CONTROL OVER ALL JOB SITE SAFETY PROCEDURES AND POLICES. THE GENERAL CONTRACTOR SHALL HAVE A SAFETY COORDINATOR AND BE RESPONSIBLE TO HOLD REGULARLY SCHEDULED SAFETY TRAINING WITH ALL JOB SITE PERSONNEL, INCLUDING ALL SUB CONTRACTOR PERSONNEL.
5. NEITHER THE ARCHITECTS OR THE OWNERS INSPECTION NOR FAILURE TO INSPECT SHALL RELIEVE THE CONTRACTOR OF ANY OBLIGATION HEREUNDER. IF ANY WORK FAILS TO CONFORM TO THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL PROMPTLY REMEDY AND REPLACE THE SAME AT THE CONTRACTOR'S EXPENSE. NO ACCEPTANCE OR PAYMENT BY THE OWNER OR ARCHITECT SHALL CONSTITUTE A WAIVER OF THE FOREGOING AND NOTHING HEREIN SHALL EXCLUDE OR LIMIT ANY WARRANTIES IMPLIED BY LAW.
6. THE GENERAL CONTRACTOR SHALL NOT SO CONDUCT ITS OPERATIONS AS NOT TO UNREASONABLY INTERFERE WITH TRAFFIC ON PUBLIC THOROUGHFARES ADJACENT OR NEAR TO THE PROJECT SITE.
7. DO NOT SCALE DRAWINGS.

F. PROJECT REQUIREMENTS

1. THE GENERAL CONTRACTOR REPRESENTS THAT IT POSSESSES THE SKILLS REQUIRED FOR THE WORK, ASSUMES THE RESPONSIBILITIES OF AN EMPLOYER FOR PERFORMANCE OF THE WORK, AND ACTS AS AN EMPLOYER OF ONE OR MORE EMPLOYEES BY PAYING WAGES, DIRECTING ACTIVITIES AND PERFORMING OTHER SIMILAR FUNCTIONS. THE GENERAL CONTRACTOR IS AN INDEPENDENT CONTRACTOR, FREE TO DETERMINE THE MANNER IN WHICH THE WORK IS PERFORMED.
2. THE GENERAL CONTRACTOR SHALL PROVIDE, AND MAINTAIN IN GOOD WORKING ORDER, THE FOLLOWING ITEMS FOR USE BY THE PROJECT SUPERINTENDENT DAILY DURING THE ENTIRE DURATION OF THE PROJECT:
- A. LAPTOP WITH INTERNET ACCESS
 - B. DIGITAL CAMERA WITH DATE STAMP CAPABILITY AND WITH PROPER CABLES TO ATTACH TO LAPTOP
 - C. EMAIL ACCESS THROUGH THE LAPTOP
 - D. A PRINTER/SCANNER/MACHINE WITH PROPER CABLES TO ATTACH TO LAPTOP
 - E. CELL PHONE
3. THE GENERAL CONTRACTOR SHALL HAVE A CONSTRUCTION SUPERINTENDENT ASSIGNED TO THIS PROJECT, AND THIS SUPERINTENDENT SHALL HAVE THE NECESSARY CONSTRUCTION KNOWLEDGE AND SKILLS TO SUPERVISE THE WORK. THE SUPERINTENDENT SHALL BE REACHABLE BY PHONE DURING NORMAL BUSINESS HOURS, ONCE ASSIGNED, THE SUPERINTENDENT SHALL NOT BE REMOVED OR REPLACED WITHOUT WRITTEN APPROVAL FROM OWNER & ARCHITECT, UNLESS SPECIFICALLY REQUESTED TO BE REPLACED BY OWNER & ARCHITECT.
4. THE SUPERINTENDENT WILL BE REQUIRED TO PROVIDE PHOTOGRAPHS (VIA EMAIL USING A DIGITAL CAMERA) TO THE OWNER & ARCHITECT EACH FRIDAY BY NOON CST, SHOWING THE PROGRESS OF CONSTRUCTION. THE GENERAL CONTRACTOR IS ENCOURAGED TO TAKE PHOTOS DURING CONSTRUCTION TO ASSIST IN THE PROGRESS OF CONSTRUCTION PROGRESS. RECORD UNCOVERED CONDITIONS, RECORD CONDITION AND AMOUNTS OF VENDOR GOODS UPON RECEIPT, AND RECORD CONSTRUCTION THAT VARIES FROM THE CDS (AS PART OF THE AS-BUILTS). ALL PHOTOS WILL HAVE A DATE STAMP.

G. INSPECTIONS/OBSERVATIONS

1. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO OVERSEE CONSTRUCTION OF THE PROJECT, CONTINUALLY INSPECTING THE WORK, MATERIALS, AND WORKMANSHIP PROVIDED BY ALL OF HIS TRADESMEN, SUBCONTRACTORS, AND SUPPLIERS. EXCELLENCE IN QUALITY OF CONSTRUCTION CAN ONLY BE ACHIEVED IF THE CONTRACTOR EMPHOSIS HIGH STANDARDS OF ACCEPTABILITY. THE GENERAL CONTRACTOR CANNOT DELEGATE HIS RESPONSIBILITY TO THE SUBCONTRACTORS, BUT MUST CONTINUALLY MONITOR THE WORK OF EACH TRADE OR THE PROJECT.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REQUEST AND SCHEDULE ALL AGENCIES HAVING JURISDICTION (AHJ) INSPECTIONS NECESSARY TO OBTAIN THE CERTIFICATE OF OCCUPANCY (CERTIFICATE OF COMPLIANCE). PRIOR TO THE DATE OF THE AGENCY INSPECTION, THE GENERAL CONTRACTOR SHOULD INSPECT THE PROJECT TO INSURE THAT CONSTRUCTION COMES WITHIN THE REQUIREMENTS. SCHEDULING FINAL INSPECTIONS WITH AGENCY REPRESENTATIVES WHEN THE PROJECT IS NOT COMPLETE MUST BE AVOIDED. COPIES OF FINAL INSPECTIONS MUST BE PROVIDED TO OWNER & ARCHITECT AS THEY ARE AVAILABLE.
3. PRIOR TO REQUESTING THE AGENCY INSPECTION, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONDUCT HIS OWN PRE-SUBSTANTIAL COMPLETION INSPECTION OF THE CONSTRUCTION FOR QUALITY OF CONSTRUCTION AND COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS.
4. THE FOLLOWING PEOPLE SHOULD BE IN ATTENDANCE FOR THE SUBSTANTIAL COMPLETION INSPECTION:
- A. GENERAL CONTRACTOR
 - B. GENERAL CONTRACTOR SUPERINTENDENT
 - C. MECHANICAL CONTRACTOR
 - D. ELECTRICAL CONTRACTOR
 - E. PLUMBING CONTRACTOR
 - F. PAINTING CONTRACTOR
 - G. FLOORING CONTRACTOR
5. ITEMS TO BE SUBMITTED AS A PRE-REQUISITE TO THE REQUEST FOR THE CERTIFICATE OF SUBSTANTIAL COMPLETION AND OWNER ARCHITECTS MUST BE COMPLETED AND CORRECTED.
- A. GENERAL CONTRACTOR'S PUNCH LISTS
 - B. HVAC TEST AND BALANCE REPORT
 - C. SPRINKLER SYSTEM TEST AND BALANCE INSPECTION REPORT
 - D. COPY OF VIDEO OF COMPLETED SEWER SYSTEM
6. THE REVIEW TEAM SHOULD PROCEED IN AN ORGANIZED MANNER THROUGHOUT THE BUILDING INSPECTING EACH SPACE OR ROOM. THE PUNCH LIST GENERATED BY THE SUBSTANTIAL COMPLETION INSPECTION TOUR IS TO BE PREPARED BY THE CONTRACTOR, ALONG WITH THE PUNCH LIST, THE ARCHITECT SHALL PREPARE THE CERTIFICATE OF SUBSTANTIAL COMPLETION.
7. IMMEDIATELY AFTER RECEIPT OF THE PUNCH LIST, THE GENERAL CONTRACTOR AND SUBCONTRACTORS ARE EXPECTED TO BEGIN CORRECTION OF THE OUTSTANDING ITEMS AFTER COMPLETION OF PUNCHLIST. THE CONTRACTOR SHALL NOTIFY OWNER & ARCHITECT IN WRITING THAT FULL LIST OF ITEMS TO BE COMPLETED AND OR CORRECT IS FINALIZED.

H. RECORD CLOSE-OUT DOCUMENTS

1. THE OWNER REQUESTS THE GENERAL CONTRACTOR AND SUBCONTRACTORS TO MAINTAIN AN ACCURATE, CURRENT SET OF RECORD DOCUMENTS (AS-BUILTS) AS CONSTRUCTION PROGRESSES, ALL PERTINENT INFORMATION RELATING TO THE PROJECT MUST BE TIMELY MAINTAINED ON THE AS-BUILTS. THE AS-BUILTS MUST BE MAINTAINED ONSITE IN THE GENERAL CONTRACTOR'S OFFICE AND WILL NOT BE USED FOR ANY OTHER PURPOSE, SINCE THE OWNER WILL OWN AND OPERATE THE FACILITY, IT IS IMPERATIVE THAT ALL PARTIES MAINTAIN ACCURATE INFORMATION REGARDING THE ACTUAL CONSTRUCTION OF THE PROJECT.
2. ALL DEVIATIONS FROM THE CONTRACT SET OF DRAWINGS MUST BE NOTED ON THE AS-BUILTS IN RED WITH CLOUDS FOR CLEAR IDENTIFICATION. THE OWNER WILL REVIEW THE AS-BUILTS FOR ACCURACY AND COMPLETENESS MONTHLY, DURING THE PAYMENT APPLICATION REVIEW PROCESS. FAILURE TO POST CHANGES TO THE PROJECT ON THE AS-BUILTS AS IDENTIFIED DURING THE ON-SITE MONTHLY REVIEW WILL BE CAUSE TO SUSPEND PAYMENT UNTIL RECTIFIED. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO ENFORCE THE TIMELY POSTING OF AS-BUILT CHANGES WITH THE SUBCONTRACTORS.

I. FINAL CLOSE-OUT OF THE PROJECT

1. WITHIN THIRTY (30) CALENDAR DAYS AFTER THE FINAL PROJECT SUBSTANTIAL COMPLETION, THE GENERAL CONTRACTOR SHALL COMPLY WITH ALL CLOSE-OUT DOCUMENTS AND SUBMIT TO THE OWNER FOR REVIEW. IF THE CONTRACTOR FAILS TO COMPLETE ITS REQUIREMENTS WITHIN THIS TIMELINE ABOVE, THE CONTRACTOR MAY BE SUBJECT TO ADDITIONAL ADMINISTRATION FEES.

J. CLOSE-OUT DOCUMENTS

1. THE CATEGORIES LISTED BELOW SHOULD BE SUBMITTED AT THE SAME TIME.
- A. A DISK WITH ALL PHOTOS TAKEN DURING CONSTRUCTION
 - B. CHANGE ORDERS AND ALL ADDENDA ATTACHED AND POSTED TO THE AS-BUILT DRAWINGS
 - C. AS-BUILT DRAWINGS: ONE HARD COPY TO REMAIN ON SITE AND IN PLANT TUBE; ONE ELECTRONIC COPY TO BE SENT WITH CLOSE-OUT PAPERWORK
2. MATERIALS SELECTION DATA - PROVIDE ALL APPROVED SUBMITTALS
3. OPERATION AND MAINTENANCE MANUALS (OMM) - PROVIDE OMM MANUALS BOXED AND BOUND. THIS ITEM IS OF SIGNIFICANT IMPORTANCE TO MAINTURE MAINTENANCE ACTIVITIES.
- A. ALL HVAC TEST AND BALANCE REPORTS
 - B. RELEASE OF LIEN (AIA FORM 706), PAYMENT OF DEBT (AIA FORM 706)
 - C. WARRANTIES, CERTIFICATES, AFFIDAVITS
4. ALL INFORMATION INCLUDED IN THIS CATEGORY WILL BE FURNISHED IN ONE (1) COPY AND BOUND IN A STURDY THREE-RING BINDER WITH A LABEL ON THE OUTSIDE READING "GENERAL CLOSE-OUT DOCUMENTS" TO INCLUDE AN INDEX OF THE CONTENTS. ALL AS-BUILT DOCUMENTS WILL BE ORIGINAL (WITH RED LETTERING ON THE BOTTOM OF THE FORM) AND NOTARIZED. IF THE ELECTRONIC VERSION IS USED A COPY WITH ORIGINAL SIGNATURES WILL BE SUBMITTED. THE GENERAL CONTRACTOR AND EACH SUBCONTRACTOR WILL HAVE SEPARATE TABS IDENTIFYING EACH BY NAME. THE GENERAL CONTRACTOR WILL LIST EACH SUBCONTRACTOR ALPHABETICALLY AND WILL CHECK TO INSURE THAT A "RELEASE OF LIEN" - AIA FORM 706A AND A "PAYMENT OF DEBT-AIA FORM 706B IS INCLUDED FOR EACH AND EACH SUBCONTRACTOR.
5. AN ANNOTATED COPY OF THE SUBSTANTIAL COMPLETION PUNCH LIST INDICATING ACTION TAKEN ON EACH ITEM.
6. WARRANTIES, CERTIFICATES AND AFFIDAVITS SHALL BE INCLUDED FOR ANY EQUIPMENT, MATERIALS OR SYSTEMS COMBINED WITH ALL OF THE ABOVE INFORMATION AND PLACED BEHIND THE TAB OF THE CONTRACTOR THAT ISSUED IT.

DIVISION 4 - MASONRY

04 0500 - MASONRY RESTORATION & TUCKPOINTING

A. REFERENCES

- 1. AMERICAN CONCRETE INSTITUTE (ACI).
- A. ACI 503.1-02 - SPECIFICATION FOR MASONRY FOR MASONRY STRUCTURES.
- 2. ASTM INTERNATIONAL (ASTM):
 - A. ASTM C 144 - STANDARD SPECIFICATION FOR AGGREGATE FOR MASONRY MORTAR.
 - J. ASTM C 150 - STANDARD SPECIFICATION FOR PORTLAND CEMENT.
 - D. ASTM C 207 - STANDARD SPECIFICATION FOR HYDRATED LIME FOR MASONRY PURPOSES.
 - D. ASTM C 286 - STANDARD SPECIFICATION FOR AIR-ENTRANING ADMIXTURES FOR CONCRETE.
 - A. ASTM C 270 - STANDARD SPECIFICATION FOR PRE-BLENDED DRY MORTAR MIX FOR MASONRY.
 - F. ASTM C 595 - STANDARD SPECIFICATION FOR BLENDED HYDRAULIC CEMENTS.
 - G. ASTM C 780 - STANDARD TEST METHOD FOR PRECONSTRUCTION AND CONSTRUCTION EVALUATION OF MORTARS FOR PLAIN AND NEWCASTLE MASONRY.
 - H. ASTM C 979 - STANDARD SPECIFICATION FOR PIGMENTS FOR INTEGRALLY COLORED CONCRETE.
 - I. ASTM C 1093 - STANDARD PRACTICE FOR ACCREDITATION OF TESTING AGENCIES FOR UNIT MASONRY.
 - J. ASTM C 1157 - STANDARD PERFORMANCE SPECIFICATION FOR HYDRAULIC CEMENT.
 - K. ASTM C 1314 - STANDARD TEST METHOD FOR COMPRESSIVE STRENGTH OF MASONRY PRISMS.
 - L. ASTM C 1598 - STANDARD GUIDE FOR QUALITY ASSURANCE OF MORTARS.
 - M. ASTM C 1714 - STANDARD SPECIFICATION FOR PRE-BLENDED DRY MORTAR MIX FOR UNIT MASONRY.
 - N. ASTM C 329 - STANDARD SPECIFICATION FOR MINIMUM REQUIREMENTS FOR AGGREGATES ENGAGED IN THE TESTING AND INSPECTION OF MATERIALS USED IN CONSTRUCTION.
 - O. ATTACHMENT TO BUILDING CONSTRUCTION.
 - P. STRUCTURAL PERFORMANCE - RALINGS, INCLUDING ATTACHMENT TO BUILDING CONSTRUCTION, SHALL WITHSTAND THE EFFECTS OF GRAVITY LOADS AND THE FOLLOWING LOADS AND STRESSES WITHIN LIMITS AND UNDER CONDITIONS INDICATED:
 - 1. IMAC - INTERNATIONAL MASONRY INDUSTRY ALL-WEATHER COUNCIL (IMAC); RECOMMENDED PRACTICES AND GUIDE SPECIFICATIONS FOR COLD WEATHER MASONRY CONSTRUCTION.
 - 2. IMIAC - INTERNATIONAL MASONRY INDUSTRY ALL-WEATHER COUNCIL (IMAC); RECOMMENDED PRACTICES AND GUIDE SPECIFICATIONS FOR HOT WEATHER MASONRY CONSTRUCTION.
 - 3. THE BRICK INDUSTRY ASSOCIATION (BIA).
 - 4. ASTM C 1157 - STANDARD SPECIFICATION FOR MORTAR MIXES.
 - 5. BIA TECHNICAL NOTE 20 - CLEANING BRICK.

B. SUBMITTALS

- 1. PRODUCT DATA: SUBMIT MANUFACTURER'S PRODUCT DATA.
- 2. QUALITY ASSURANCE/CONTROL, SUBMITTALS:
 - A. SUBMIT MANUFACTURER'S CERTIFICATE THAT PRODUCTS MEET OR EXCEED SPECIFIED REQUIREMENTS
 - B. SUBMIT TEST RESULTS PREPARED BY A QUALIFIED INDEPENDENT TESTING LABORATORY.
- 3. QUALITY ASSURANCE:
 - A. MANUFACTURER QUALIFICATIONS: FIRM SPECIALIZING IN MANUFACTURE OF MASONRY INSTALLATION MATERIALS, INCLUDING MATERIALS, WITH MINIMUM 10 YEARS EXPERIENCE.
 - B. SUPPORTING TEST RESULTS: TESTING, TEST REPORTS PREPARED BY A QUALIFIED INDEPENDENT LABORATORY INDICATING COMPLIANCE WITH THE FOLLOWING PERFORMANCE REQUIREMENTS.
 - C. PRE-INSTALLATION MEETING: AT LEAST ONE WEEKS PRIOR TO COMMENCING MASONRY WORK, CONDUCT A MEETING AT THE PROJECT SITE TO DISCUSS CONTRACT REQUIREMENTS AND JOB CONDITIONS, REQUIRE THE ATTENDANCE OF MASONRY CONTRACTOR, AND INSTALLERS OF RELATED MATERIALS, NOTIFY ARCHITECT IN ADVANCE OF MEETING REVIEW DETAILING AND SEQUENCE OF WORK TO BE PERFORMED.
 - D. THE BRICK INDUSTRY ASSOCIATION (BIA) TECHNICAL NOTE 20 - CLEANING BRICK, AND STORED OFF THE GROUND, UNDER COVER AND SHALL BE KEPT DRY IN ACCORDANCE WITH ASTM C1714.

D. PROJECT CONDITIONS

- 1. MAINTAIN ENVIRONMENTAL CONDITIONS AND PROTECT WORK DURING AND AFTER INSTALLATION TO COMPLY WITH REQUIREMENTS STANDARDS AND MANUFACTURER'S PRINTED RECOMMENDATIONS.
- 2. DO NOT BUILD OR APPLY MORTAR PRODUCTS ON FROZEN SUBSTRATES.
- 3. REMOVE AND REPLACE MORTAR DAMAGED BY FROST OR BY FREEZING CONDITIONS.
- 3. TEMPORARY HEATERS TO EXTERIOR TO PREVENT DAMAGE TO MASONRY WORK FROM CARBON DIOXIDE BUILD-UP.

E. PRODUCTS

- 1. BASIC OF DESIGN: SPEC MIX# 008, INC. WEB: WWW.SPECMIX.COM/WWW.SPECMIX.COM
- 2. REQUESTS FOR SUBSTITUTIONS WILL BE CONSIDERED IN ACCORDANCE WITH PROVISIONS OF SUBSTITUTION PROCEDURES.
- 3. OBTAIN PRODUCTS FROM A SINGLE MANUFACTURER.
- 4. DESIGN AND PERFORMANCE REQUIREMENTS: PROVIDE MORTAR MIXES THAT HAVE BEEN SELECTED, MANUFACTURED, MIXED AND INSTALLED TO COMPLY WITH THE FOLLOWING:
 - A. ASTM C 270
 - B. ASTM C 1714
 - C. MORTAR
 - D. TUCKPOINT MORTAR, SPEC MIX TUCKPOINT MORTAR, APPLICABLE STANDARDS: ASTM C 144, ASTM C 150, ASTM C 207, ASTM C 270 FOR TUCKPOINT MORTAR, ASTM C 595, ASTM C 780, ASTM C 1093, ASTM C 1157, ASTM C 1314, ASTM C 1598, ASTM C 1714, ACI 503.1, IMAC.

F. EXECUTION

- EXAMINE SURFACES TO RECEIVE MASONRY WORK AND CONDITIONS UNDER WHICH MASONRY WILL BE INSTALLED. DO NOT PROCEED WITH MASONRY WORK UNTIL SURFACES AND CONDITIONS COMPLY WITH REQUIREMENTS INDICATED IN REFERENCED MASONRY INSTALLATION STANDARD AND MANUFACTURER'S PRINTED INSTRUCTIONS.

- 1. REMOVAL OF EXISTING MORTAR
- A. REMOVAL OF EXISTING MORTAR: CUT OUT EXISTING MORTAR JOINTS (BOTH BED AND HEAD JOINTS) AND REMOVE BY MEANS OF A TOOTHING CHISEL OR A SPECIAL POINTERS GRINDER, TO A REMAIN DEPTH OF TO 3/4-INCH (19 MM), OR 1/2-INCH (13 MM) DEEP, TO BE REPLACED WITH NEW MORTAR.
- 1. TAKE CARE TO NOT DAMAGE EDGES OF EXISTING MASONRY UNITS TO UNIFORM.
- 2. REMOVE DUST AND DEBRIS FROM THE JOINTS BY BRUSHING, BLOWING WITH AIR OR RINSING WITH WATER, DO NOT RINSE WHEN TEMPERATURE IS BELOW FREEZING.
- 2. REPLACEMENT OF MASONRY UNITS
 - A. REMOVE DAMAGED, SPALLED, LOOSE OR DETERIORATED MASONRY UNITS. CAREFULLY REMOVE ENTIRE UNITS FROM JOINT TO JOINT, WITHOUT DAMAGING SURROUNDING MASONRY, IN A MANNER THAT PERMITS REPLACEMENT WITH FULL SIZE UNITS.
 - B. SUPPORT AND PROTECT REMAINING MASONRY THAT SURROUNDS REMOVAL AREA, MAINTAIN FLASHING, REINFORCEMENT, LINTELS, AND ADJOINING CONSTRUCTION IN AN UNDAUNTED CONDITION.
 - C. CLEAN MASONRY UNITS SURROUNDING REMOVAL AREAS BY REMOVING MORTAR, DUST, AND LOOSE PARTICLES IN PREPARATION FOR REPLACEMENT.
 - D. REPLACE REMOVED UNITS WITH SALVAGED OR NEW UNITS THAT MATCH EXISTING SIZE AND TEXTURE. DO NOT USE BROKEN UNITS UNLESS THEY CAN BE CUT TO USABLE SIZE.
 - E. INSTALL REPLACEMENT UNITS INTO BONDING AND COURSEING PATTERN OF EXISTING UNITS. IF CUTTING IS REQUIRED, USE A MOTOR-DRIVEN SAW DESIGNED TO CUT MASONRY WITH CLEAN, SHARP, UNCHIPPED EDGES. UNITS MUST BE TOOTHED IN OR COURSEING SHALL MATCH SURROUNDING IN PLACE WORK.
 - F. MAINTAIN JOINT WIDTH FOR REPLACEMENT UNITS TO MATCH EXISTING JOINTS.
 - G. LAY REPLACEMENT UNITS WITH COMPLETELY FILLED BED, HEAD, AND COLLAR JOINTS. BUTTER ENDS WITH SUFFICIENT MORTAR TO FILL HEAD JOINTS AND SHOVE INTO PLACE.
 - H. AS RECOMMENDED BY MANUFACTURER.
 - I. RETEMPERING.
 - J. RETEMPER MORTAR AS RECOMMENDED BY MANUFACTURER

G. INSTALLATION OF TUCK POINTING MORTAR

- 1. INSTALL MORTAR IN ACCORDANCE WITH AIA/ACI 503.1.
- 2. IMMEDIATELY PRIOR TO APPLICATION OF MORTAR, DAMPEN JOINTS TO BE TUCK POINTED. PRIOR TO APPLICATION OF POINTING MORTAR, ALLOW MORTAR UNITS TO ABSORB SURFACE WATER.
- 3. THENTLY PACK MORTAR INTO JOINTS IN THIN LAYERS, APPROXIMATELY 1/4-INCH (6 MM) THICK MAXIMUM.
- 4. ALLOW LAYER TO BECOME "THUMBPRINT HARD" BEFORE APPLYING NEXT LAYER.
- 5. PACK FINAL LAYER FLUSH WITH SURFACES OF MASONRY UNITS, WHEN MORTAR BECOMES "THUMBPRINT HARD", TOOJ JOINTS.
- 6. MARLINE GRADING WITH THE MORTAR OR MORTAR SEPARATION AT EDGE OF A JOINT IS UNACCEPTABLE. COMPLETELY REMOVE SUCH MORTAR AND REPOINT.
- 7. TOOL JOINTS IN PATCH WORK WITH A JOINTING TOOL, TO MATCH THE EXISTING SURROUNDING JOINTS.
- 8. CLEANING
 - A. COMPLY WITH CLEANING PROCEDURES AND RECOMMENDATIONS OF THE MANUFACTURERS OF BOTH THE CLEANING SOLUTIONS AND THE UNIT MASONRY.
 - B. REMOVE EFFLORESCENCE FROM MASONRY WALL EXPOSED IN THE FINISHED WORK IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION, NOMA TEC BULLETIN #8-3A AND/OR BIA TECHNICAL NOTE 20 - CLEANING BRICK.
 - C. REMOVE DIRT OR STAINS FROM MASONRY WALLS EXPOSED IN THE FINISHED WORK IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, NOMA TEC BULLETIN #8-2A AND/OR BIA TECHNICAL NOTE 20 - CLEANING BRICK.
 - D. COMPLY WITH APPLICABLE ENVIRONMENTAL LAWS AND RESTRACTIONS.
 - E. AFTER MORTAR HAS FULLY HARDENED, THOROUGHLY CLEAN EXPOSED MASONRY SURFACES OF EXCESS MORTAR AND FOREIGN MATTER, USE WOOD SCRAPERS, STIFF-NOON OR -FIBER BRUSHES, AND CLEAN WATER, SPRAY APPLIED AT LOW PRESSURE.
 - F. DO NOT USE METAL SCRAPERS OR BRUSHES.
 - G. DO NOT USE ACIDIC OR ALKALINE CLEANERS.

H. PROTECTION

- 1. PROTECTION: PROTECT NEWLY POINTED JOINTS FROM WEATHER AND ELEMENTS AS RECOMMENDED BY MANUFACTURER AND INDUSTRY STANDARDS, UNTIL POINTED JOINTS ARE SUFFICIENTLY HARD ENOUGH TO PREVENT DAMAGE.
- 2. PROTECT INSTALLED WORK FROM DAMAGE DUE TO SUBSEQUENT CONSTRUCTION ACTIVITY ON THE SITE.

DIVISION 5 - METALS

05 0215 - PIPE AND TUBE RAILINGS

- A. SUBMITTALS: PRODUCT DATA AND SHOP DRAWINGS WITH PLANS, ELEVATIONS AND SECTIONS INDICATING MEMBER SIZES AND LAYOUT, VERTICAL AND HORIZONTAL DIMENSIONS, EDGE CONDITIONS, AND CONNECTION DETAILS. INCLUDE DETAILS OF EQUIPMENT ASSEMBLY, ADJACENT DIMENSIONS, WEIGHTS, LOADS, REQUIRED CLEARANCES, METHOD OF FIELD CONNECTIONS, COMPONENTS, AND LOCATION AND SIZE OF EACH FIELD CONNECTION. SAMPLES FOR INITIAL SELECTION FOR EACH TYPE OF EXPOSED FINISH.
- 1. DESIGNATED DESIGN SUBMITTAL: FOR HANDRAIL AND GUARDRAIL SYSTEMS, INCLUDING ANALYSIS DATA SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION.

- B. DESIGN: METAL TUBE RAILINGS SHALL BE DESIGNED BY FABRICATOR TO SUPPORT CODE-REQUIRED LOADS AND TO MATCH THE CONFIGURATIONS INDICATED IN THE CONSTRUCTION DOCUMENTS. SEE DRAWINGS FOR REQUIRED RAILING ELEVATIONS.
- C. FIELD CONDITIONS:
 - 1. FIELD MEASUREMENTS: VERIFY ACTUAL LOCATIONS OF WALLS AND OTHER CONSTRUCTION CONTIGUOUS WITH METAL FABRICATIONS BY FIELD MEASUREMENTS BEFORE FABRICATION.

- D. PERFORMANCE REQUIREMENTS:
 - 1. A. DELEGATED DESIGN: ENGAGE A QUALIFIED PROFESSIONAL ENGINEER TO DESIGN RAILINGS, INCLUDING ATTACHMENT TO BUILDING CONSTRUCTION.
 - B. STRUCTURAL PERFORMANCE: RAILINGS, INCLUDING ATTACHMENT TO BUILDING CONSTRUCTION, SHALL WITHSTAND THE EFFECTS OF GRAVITY LOADS AND THE FOLLOWING LOADS AND STRESSES WITHIN LIMITS AND UNDER CONDITIONS INDICATED:
 - 2. HANDRAILS AND TOP RAILS OF GUARDS:
 - A. UNIFORM LOAD OF 50 LBF/FT (0.75 KN/M) APPLIED IN ANY DIRECTION.
 - B. CONCENTRATED LOAD OF 200 LBF (0.88 KN) APPLIED IN ANY DIRECTION.
 - C. UNIFORM AND CONCENTRATED LOADS NEED NOT BE ASSUMED TO ACT CONCURRENTLY.

- E. FASTENERS:
 - 1. FASTENERS FOR ANCHORING RAILINGS TO OTHER CONSTRUCTION: SELECT FASTENERS OF TYPE, GRADE, AND CLASS REQUIRED TO PRODUCE CONNECTIONS SUITABLE FOR ANCHORING RAILINGS TO OTHER TYPES OF CONSTRUCTION. VERIFY FASTENERS ARE AVAILABLE AND CAPABLE OF WITHSTANDING DESIGN LOADS.
- F. MISCELLANEOUS MATERIALS:
 - A. METAL SURFACES: GENERAL: PROVIDE MATERIALS WITH SMOOTH SURFACES, WITHOUT SEAM MARKS, ROLLER MARKS, ROLLED TRADE NAMES, STAINS, DISCOLORATIONS, OR BLEMISHES.
 - B. BRACKETS, FLANGES, AND ANCHORS: CAST OR FORMED METAL OF SAME TYPE OF MATERIAL AND FINISH AS SUPPORTED RAILS UNLESS OTHERWISE INDICATED.
 - C. PIPE: ASTM A 553A 53M, TYPE F OR TYPE S, GRADE A, STANDARD WEIGHT [SCHEDULE 40], UNLESS ANOTHER GRADE AND WEIGHT ARE REQUIRED BY STRUCTURAL LOADS.

- G. FABRICATION:
 - 1. GENERAL: FABRICATE RAILINGS TO COMPLY WITH REQUIREMENTS INDICATED FOR DESIGN, DIMENSIONS, MEMBER SIZES AND SPACING, JOINTS, FINISH, AND ANCHORS, BUT NOT LESS THAN THAT REQUIRED TO SUPPORT STRUCTURAL LOADS.
 - 2. CUT, DRILL, AND PUNCH ALUMINUM CLEANLY AND ACCURATELY. REMOVE BURRS AND EASE EDGES TO A RADIUS OF APPROXIMATELY 1/16 INCH (1.6 MM), UNLESS OTHERWISE INDICATED. REMOVE SHARP OR ROUGH AREAS ON EXPOSED SURFACES.
 - 3. FABRICATE CONNECTIONS THAT ARE EXPOSED TO WEATHER IN A MANNER THAT EXCLUDES WATER, PROVIDE WEEP HOLES WHERE WATER MAY ACCUMULATE.
 - 4. WELDED CONNECTIONS: USE FULLY WELDED JOINTS FOR PERMANENTLY CONNECTING RAILING COMPONENTS. COMPLY WITH REQUIREMENTS FOR WELDED CONNECTIONS IN "FABRICATION" ARTICLE WHETHER WELDING IS PERFORMED IN THE SHOP OR IN THE FIELD.

- H. FINISH:
 - 1. FOR NON-GALVANIZED STEEL RAILINGS: PROVIDE NON-GALVANIZED FERROUS METAL FITTINGS, BRACKETS, FASTENERS, AND SLEEVES; HOWEVER, GALVANIZE ANCHORS TO BE EMBEDDED IN CONCRETE OR MASONRY.
 - 2. PREPARATION FOR SHOP PRIMING: PREPARE UNCOATED FERROUS METAL SURFACES TO COMPLY WITH SSPC-SP 3 "POWER TOOL CLEANING."
 - 3. PRIMER APPLICATION: APPLY SHOP PRIMER TO PREPARED SURFACES OF RAILINGS UNLESS OTHERWISE INDICATED. COMPLY WITH REQUIREMENTS IN SSPC-PA 1 "SHOP FIELD AND MAINTENANCE PAINTING OF STEEL" FOR SHOP PAINTING. PRIMER NEED NOT BE APPLIED TO SURFACES TO BE EMBEDDED IN CONCRETE OR MASONRY.

- I. INSTALLATION:
 - 1. SUPPLY COMPONENTS REQUIRED FOR ANCHORAGE FABRICATED FROM SAME MATERIAL AND FINISH AS FABRICATION UNLESS NOTED OTHERWISE. SHIM AND LEVEL FABRICATIONS AS NECESSARY. COAT CONCEALED SURFACES OF FABRICATIONS IN CONTACT WITH CONCRETE, GROUT, MASONRY, WOOD, OR DISSIMILAR METALS WITH BITUMINOUS PAINT.
 - 2. FIT EXPOSED CONNECTIONS TOGETHER TO FORM TIGHT, HAIRLINE JOINTS.
 - 3. PERFORM CUTTING, DRILLING, AND FITTING REQUIRED FOR INSTALLING RAILINGS. SET RAILINGS ACCURATELY IN LOCATION, ALIGNMENT, AND ELEVATION, MEASURED FROM ESTABLISHED LINES AND LEVELS AND FREE OF RACK. DO NOT WELD, CUT, OR GRABE SURFACES OF RAILING COMPONENTS THAT ARE COATED OR FINISHED AFTER FABRICATION AND THAT ARE INTENDED FOR FIELD CONNECTION BY MECHANICAL OR OTHER MEANS WITHOUT FURTHER CUTTING OR FITTING.
 - 4. SET POSTS FLUSH WITH A TOLERANCE OF 1/16 INCH IN 3 FEET.
 - 5. CONTROL OF CORROSION: PREVENT GALVANIC ACTION AND OTHER FORMS OF CORROSION BY INSULATING METALS AND OTHER MATERIALS FROM DIRECT CONTACT WITH INCOMPATIBLE MATERIALS.
 - 6. ADJUST RAILS BEFORE ANCHORING TO ENSURE MATCHING ALIGNMENT AT ABUTTING JOINTS.
 - 7. FASTENING TO IN-PLACE CONSTRUCTION: USE ANCHORAGE DEVICES AND FASTENERS WHERE NECESSARY FOR SECURING RAILINGS AND FOR PROPERLY TRANSFERRING LOADS TO IN-PLACE CONSTRUCTION.
 - 8. PROTECT FINISHES OF RAILINGS FROM DAMAGE DURING CONSTRUCTION PERIOD WITH TEMPORARY PROTECTIVE COVERINGS APPROVED BY RAILING MANUFACTURER. REMOVE PROTECTIVE COVERINGS AT TIME OF SUBSTANTIAL COMPLETION.

05 0600 - STRUCTURAL METAL STUDS AND TRACK

THIS SECTION IS A DELEGATED DESIGN SUBMITTAL. CONTRACTOR SHALL ENGAGE A STRUCTURAL ENGINEER LICENSED IN THE JURISDICTION WHERE THIS PROJECT IS LOCATED. ALL FEES SUBMITTED FOR THIS SERVICE WILL BE PART OF BASE CONTRACT.

- A. SUBMITTALS: PRODUCT DATA: MANUFACTURER'S DATA SHEETS ON EACH PRODUCT TO BE USED, INCLUDING:
 - 1. SHOWING PLANS, SECTIONS, ELEVATIONS, LAYOUTS, PROFILES AND PRODUCT COMPONENT LOCATIONS, INCLUDING ANCHORAGE, BRACING, FASTENERS, ACCESSORIES AND FINISHES.
 - 2. INDICATE COMPONENT DETAILS, FRAMED OPENINGS, BEARING, ANCHORAGE, LOADING, WELDS, TYPE AND LOCATION OF FASTENERS, AND ACCESSORIES.
 - 3. INDICATE METHOD FOR SECURING STUDS AND OTHER COMPONENTS TO TRACKS AND FOR FRAMING CONNECTIONS.
 - 4. SUBMIT CALCULATIONS FOR LOADINGS AND STRESSES UNDER PROFESSIONAL ENGINEER'S SEAL, REGISTERED IN THE STATE OF THE PROJECT.
- B. QUALITY STANDARD:
 - 1. MANUFACTURER QUALIFICATIONS: COMPANY SPECIALIZING IN MANUFACTURING PRODUCTS SPECIFIED IN THIS SECTION WITH MINIMUM FIVE YEARS' DOCUMENTED EXPERIENCE.
 - 2. INSTALLER QUALIFICATIONS: COMPANY SPECIALIZING IN PERFORMING WORK OF THIS SECTION WITH MINIMUM 3 YEARS' DOCUMENTED EXPERIENCE.
 - 3. DESIGN STRUCTURAL ELEMENTS UNDER DIRECT SUPERVISION OF PROFESSIONAL ENGINEER EXPERIENCED IN DESIGN OF THIS WORK AND REGISTERED IN THE STATE OF THE PROJECT.
- F. INSTALLATION:
 - 1. FOLLOW MANUFACTURER INSTALLATION GUIDELINES. INSTALLATION SHALL BE COMPLIANT WITH APPLICABLE BUILDING CODES.

DIVISION 6 - WOOD AND PLASTICS

06 1000 - ROUGH CARPENTRY

- 1. PROVIDE SUFFICIENT FIRE RETARDANT TREATED WOOD BLOCKING AT ALL STUDS FOR SECURING OF WALL & CEILING ITEMS, WHETHER FURNISHED BY OWNER OR CONTRACTOR.
- 2. CONCEALED WOOD IS TO BE FIRE RETARDANT TREATED UNLESS NOTED OTHERWISE.
- 3. PRESERVATIVE TREATED LUMBER IS REQUIRED FOR ALL ITEMS TO REMAIN IN CONTACT WITH CONCRETE OR MASONRY TO CONFORM TO AWPA STANDARD 5.
- 4. EXTERIOR WOOD SHALL BE CD GRADE SPRUCE OR YELLOW PINE, ALL PLY-WOOD TO BE FIRE RATED WHERE WALLS ARE INDICATED AS RATED CONSTRUCTION.
- 5. BLOCKING SHALL BE CLOSELY FITTED, ACCURATELY SET TO REQUIRED LEVELS & LEVELS, SECURELY CONNECTED & FIRMLY FIXED IN PLACE. USING NAILS, SCREWS, &/OR BOLTS AS INDICATED OR REQUIRED BY GOOD PRACTICE AND MANUFACTURER'S RECOMMENDATIONS.

- 06 2000 - FINISH CARPENTRY
- A. SUBMITTALS: SAMPLES OF FINISH MATERIALS, CATALOG CUTS OF HARDWARE, AND SHOP DRAWINGS INCLUDING DIMENSIONED PLANS, ELEVATIONS, AND SECTIONS.
- B. QUALITY STANDARD: ARCHITECTURAL WOODWORK INSTITUTES' "ARCHITECTURAL WOODWORK QUALITY STANDARDS"
- C. MATERIALS:
 - 1. SOFTWOOD LUMBER: MAXIMUM MOISTURE CONTENT OF 6 PERCENT; WITH VERTICAL GRAIN, OF QUALITY SUITABLE FOR SCHEDULED FINISH.
 - 2. HARDWOOD LUMBER: MAXIMUM MOISTURE CONTENT OF 6 PERCENT; WITH VERTICAL GRAIN, OF QUALITY SUITABLE FOR SCHEDULED FINISH.
 - 3. SHEET MATERIALS: SOFTWOOD PLYWOOD, EXPOSED TO VIEW: FACE SPECIES AS NOTICATED, PLAN SAWN, MEDIUM DENSITY FIBERBOARD, CORE: 1/2 GRADE A3, GLUE TYPE AS RECOMMENDED FOR APPLICATION.

D. INTERIOR WOODWORK

- 1. COMPLETE FABRICATION BEFORE SHIPPING TO PROJECT SITE TO MAXIMUM EXTENT FEASIBLE. DISASSEMBLE ONLY AS NEEDED FOR SHIPPING AND INSTALLING, WHERE NECESSARY FOR FITTING AT PROJECT SITE, PROVIDE FOR SCABBING AND TRIMMING.
- 2. BACKSOT AND GROOVE BACKS OF FLAT MEMBERS, KEF BACKS OF OTHER WIDE, FLAT MEMBERS, EXCEPT WHERE ENDS WILL BE EXPOSED IN FINISHED WORK.

- F. INSTALLATION:
 - 1. DO NOT INSTALL INSULATION ADHESIVES WHEN TEMPERATURE OR WEATHER CONDITIONS ARE DETRIMENTAL TO SUCCESSFUL INSTALLATION. DO NOT APPLY WATERPROOFING TO SURFACES UNACCEPTABLE TO MEMBRANE MANUFACTURER.
 - 2. CLEAN AND PREPARE SURFACES TO RECEIVE WATERPROOFING IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. VACUUM SUBSTRATE CLEAN.
 - 3. FILL NON-MOVING JOINTS AND CRACKS WITH A FILLER COMPATIBLE WITH WATERPROOFING MATERIALS AND SEAL MOVING CRACKS WITH SEALANT AND NON-RIGID FILLER, USING PROCEDURES RECOMMENDED BY SEALANT AND WATERPROOFING MANUFACTURERS.
 - 4. INSTALL MEMBRANE WATERPROOFING IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND NRCA (NMI) APPLICABLE REQUIREMENTS.
 - 5. SELF-ADHERING MEMBRANE: REMOVE RELEASE PAPER LAYER, AND ROLL OUT UNTO SUBSTRATE WITH A FULL ROLLER TO PROVIDE FULL CONTACT BOND.
 - 6. OVERLAP EDGES AND ENDS, MINIMUM 3 INCHES, SEAL PERMANENTLY WATERPROOF BY METHOD RECOMMENDED BY MANUFACTURER, AND APPLY UNIFORM BEAD OF SEALANT TO JOINT EDGE.
 - 7. REINFORCE MEMBRANE WITH MULTIPLE THICKNESS OF MEMBRANE MATERIAL OVER JOINTS, WHETHER JOINTS ARE STATIC OR DYNAMIC.
 - 8. WEATHER-LAP JOINTS ON SLOPED SUBSTRATE IN DIRECTION OF DRAINAGE, AND SEAL JOINTS AND SEAMS.
 - 9. FLEXIBLE FLASHINGS: SEAL TIEPS WATER TIGHT TO PENETRATE THROUGH WATERPROOFING MEMBRANE WITH FLEXIBLE FLASHINGS.
 - 10. SEAL, MEMBRANE AND FLASHINGS TO ADJOINING SURFACES. INSTALL TERMINATION BAR ALONG EDGES.
 - 11. INSTALL COUNTER FLASHING OVER EXPOSED EDGES.
 - 12. INSTALLATION OF DRAINAGE PANEL AND PROTECTION BOARD: INSTALLER TO FOLLOW MANUFACTURER'S INSTALLATION PROCEDURES.
 - 13. UPON COMPLETE INSTALLATION, MEMBRANE INSTALLATION, DAM INSTALLATION AREA IN PREPARATION FOR FLOOD TESTING. FLOOD TO MINIMUM DEPTH OF 1 INCH WITH CLEAN WATER, AND AFTER 48 HOURS INSPECT FOR LEAKS. IF LEAKING IS FOUND, REMOVE WATER, REPAIR LEAKING AREAS WITH NEW WATERPROOFING MATERIALS AS DIRECTED BY ARCHITECT, REPEAT FLOOD TEST, AND REPAIR DAMAGE TO BUILDING, WHEN AREA IS PROVEN WATER TIGHT, DRAIN WATER AND REMOVE DAM.

- 07 1000 - THERMAL INSULATION
- A. SUBMITTALS: PRODUCT DATA FOR EACH TYPE OF INSULATION SPECIFIED.
- B. SURFACE BURNING CHARACTERISTICS:
 - 1. FLAME SPREAD INDEX: 25 OR LESS
 - 2. SMOKE DEVELOPED INDEX: 50 OR LESS IN EXPOSED AREAS AND PLENUMS; 450 OR LESS WHERE CONCEALED.
- C. INSULATION PRODUCTS:
 - 1. MINERAL FIBER OR GLASS FIBER BLANKET INSULATION: TYPE I (UNFACED WHERE SPECIFIED WITH SEPARATE VAPOR BARRIER) OR TYPE II (FACED WHERE SPECIFIED WITH SEPARATE VAPOR BARRIER). FIBERS MANUFACTURED FROM GLASS, SLAC WOOD, OR ROCK WOOL. FLEXIBLE PREFORMED BATT OR BULK MAT, COMPLYING WITH ASTM C685; FRICTION FIT. SEE DRAWINGS FOR SPECIFIC TYPES.
 - A. FLAME SPREAD INDEX: 25 OR LESS, WHEN TESTED IN ACCORDANCE WITH ASTM E84.
 - B. SMOKE DEVELOPED INDEX: 450 OR LESS, WHEN TESTED IN ACCORDANCE WITH ASTM E84.
 - C. COMBUSTIBILITY: NON-COMBUSTIBLE, WHEN TESTED IN ACCORDANCE WITH ASTM E136, EXCEPT FOR FACING, IF ANY.
 - D. BOND INSULATION: BOARD INSULATION AT CAVITY WALL CONSTRUCTION, EXTERIOR WALL BEHIND [RATED AND ACUSTIC CONDITIONS] WALL FINISH, AND INTERIOR WALL WITH FACER PROVIDED EXPOSED FINISH.
 - E. EXPANDED POLYSTYRENE (EPS) BOARD INSULATION: COMPLIES WITH ASTM C578.
 - F. FLAME SPREAD INDEX (FSI): CLASS A - 0 TO 25, WHEN TESTED IN ACCORDANCE WITH ASTM E84.
 - G. SMOKE DEVELOPED INDEX (SDI): 450 OR LESS, WHEN TESTED IN ACCORDANCE WITH ASTM E84.
 - H. BOARD SIZE: 48 INCH BY 96 INCH.
 - I. BOARD THICKNESS: 1-1/2 INCH.
 - J. TYPE AND COMPRESSIVE RESISTANCE: TYPE XI, S PSI (35 KPA), MINIMUM.
 - K. TYPE AND WATER ABSORPTION: TYPE XI, 4.0 PERCENT BY VOLUME, MAXIMUM, BY TOTAL IMMERSION.

- D. ACCESSORIES:
 - 1. VAPOR RETARDER: 6 MIL POLYETHYLENE AT CONCEALED AREAS (FLAME SPREAD/SMOKE DEVELOPED: 25/450), TOL-SURF AT PLENUMS AND EXPOSED AREAS (FLAME SPREAD/SMOKE DEVELOPED: 25/50), PROVIDE WHERE INDICATED IN DRAWINGS.
 - 2. TAPE: REINFORCED POLYETHYLENE FILM WITH ACRYLIC PRESSURE SENSITIVE ADHESIVE. APPLICATION: SEALING OF INTERIOR CIRCULAR PENETRATION SUCH AS PIPES OR CABLES.
- E. INSTALLATION:
 - 1. DO NOT INSTALL INSULATION ADHESIVES WHEN TEMPERATURE OR WEATHER CONDITIONS ARE DETRIMENTAL TO SUCCESSFUL INSTALLATION.
 - 2. INSTALL INSULATION IN AREAS AND IN THICKNESSES INDICATED (OR REQUIRED) TO PRODUCE R-VALUES WHERE INDICATED, CUT AND FIT TIGHTLY AROUND OBSTRUCTIONS AND FILL VOIDS WITH INSULATION.

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SPECIFICATIONS - PRODUCT & INSTALLATION GENERAL REQUIREMENTS

07 5423 - EPDM MEMBRANE ROOFING & ACCESSORIES

- A. SUBMITTALS: PRODUCT DATA AND SHOP DRAWINGS. INDICATE JOINT OR TERMINATION DETAIL CONDITIONS, CONDITIONS OF INTERFACE WITH OTHER MATERIALS, AND PAVEMENT OR WALKWAY PAD LAYOUT.
1. MANUFACTURER'S FIELD REPORTS: INDICATE PROCEDURES FOLLOWED, AMBIENT TEMPERATURES, HUMIDITY, WIND VELOCITY DURING APPLICATION, AND SUPPLEMENTARY INSTRUCTIONS GIVEN SUBMIT FINAL MANUFACTURER'S PUNCH LIST FIELD REPORT WHEN COMPLETE SYSTEM IS INSTALLED.
2. MANUFACTURER'S INSTALLATION INSTRUCTIONS: INDICATE MEMBRANE SEAMING PRECAUTIONS AND PERMITTER CONDITIONS REQUIRING SPECIAL ATTENTION.

B. WARRANTY:

1. MATERIAL WARRANTY: PROVIDE MEMBRANE MANUFACTURER'S WARRANTY AGREEING TO REPLACE MATERIAL THAT SHOWS MANUFACTURE DEFECTS WITHIN 10 YEARS AFTER INSTALLATION.
2. SYSTEM WARRANTY: PROVIDE MANUFACTURER'S SYSTEM WARRANTY AGREEING TO REPAIR OR REPLACE ROOFING THAT LEAKS OR IS DAMAGED DUE TO WIND OR OTHER NATURAL CAUSES. WARRANTY TERM: 20 YEARS.
- A. FOR REPAIR AND REPLACEMENT INCLUDE COSTS OF BOTH MATERIAL AND LABOR IN WARRANTY.
- B. INCLUDE ADJACENT PUNCTURES ACCORDING TO THE MANUFACTURER'S STANDARD WARRANTY TERMS.
- C. INCLUDE HAIL DAMAGE ACCORDING TO THE MANUFACTURER'S STANDARD WARRANTY TERMS.
- D. EXCEPTIONS NOT PERMITTED: DAMAGE DUE TO ROOF TRAFFIC, DAMAGE DUE TO WIND OF SPEED GREATER THAN 56 MPH BUT LESS THAN 90 MPH.

C. BASIS OF DESIGN: FIRESTONE RUBBERGARD® EPDM MEMBRANE WWW.FIRESTONEBPO.COM

1. WIND UPLIFT DESIGNED TO WITHSTAND WIND UPLIFT FORCES CALCULATED WITH ASCE 7.

2. INSULATION THERMAL RESISTANCE (R-VALUE): 3 PER INCH, MINIMUM, PROVIDE INSULATION OF THICKNESS REQUIRED, MINIMUM R-20.

D. ROOFING MEMBRANE MATERIALS:

1. MATERIAL: RUBBERGARD EPDM
- A. B. THICKNESS: 60 MILS (0.060 INCH), MINIMUM.
- B. C. SHEET WIDTH: FACTORY FABRICATED INTO LARGEST SIZES POSSIBLE.
- C. D. PRODUCT: FULLY ADHERED.
2. SEAMING MATERIALS: AS RECOMMENDED BY MEMBRANE MANUFACTURER.
3. VAPOR RETARDER: MATERIAL APPROVED BY ROOF MANUFACTURER COMPLYING WITH REQUIREMENTS OF FIRE RATING CLASSIFICATION COMPATIBLE WITH ROOFING AND INSULATION MATERIALS. INSTALL WITH FIRE-RETARDANT ADHESIVE.
4. FLEXIBLE FLASHING MATERIAL: SAME MATERIAL AS MEMBRANE.
5. BASE FLASHING: PROVIDE WATERPROOF, FULLY ADHERED BASE FLASHING SYSTEM AT ALL PENETRATIONS, PLANE TRANSITIONS, AND TERMINATIONS.

E. DECK SHEATHING AND COVER BOARDS:

- IF SHEATHING OR COVER BOARD IS REFERENCED IN THE DRAWINGS, PROVIDE PRODUCTS COMPLYING WITH BELOW REQUIREMENTS.
1. DECK SHEATHING: 1/2" PSUM SHEATHING, ASTM C1395C1399M, TYPE I SPECIAL FIRE RESISTANT TYPE.
2. COVERBOARD: CEMENT ROOF BOARD, COMPLYING WITH ASTM C1325.

F. INSULATION:

1. INSULATION COMPLYING WITH MANUFACTURER'S RECOMMENDATIONS.
2. CELLULOSE FIBER BOARD INSULATION: ASTM C208, TYPE II, NATURAL FINISH.
3. EXPANDED POLYSTYRENE (EPS) BOARD INSULATION: COMPLES WITH ASTM C578 WITH DRAINAGE CHANNELS ON ONE FACE.
4. TAPERED BOARD: POLYSTYRENE (XPS) BOARD INSULATION: COMPLES WITH ASTM C578 WITH NATURAL SKIN SURFACE, DRAINAGE CHANNELS ON ONE FACE.
5. EXTRUDED POLYSTYRENE (XPS) BOARD INSULATION: COMPLES WITH ASTM C578 WITH NATURAL SKIN SURFACE, DRAINAGE CHANNELS ON ONE FACE.

G. ACCESSORIES:

1. PROVIDE AND INSTALL ONLY ACCESSORIES WHICH COMPLY WITH MANUFACTURER'S RECOMMENDATIONS.
2. PROVIDE FIRESTONE PREFINISHED FLASHINGS AND CORNERS FOR ITEMS NOTED IN DRAWING DETAILS.

H. INSTALLATION:

1. VERIFY THAT SURFACES AND SITE CONDITIONS ARE READY TO RECEIVE WORK.
2. INCHES DECK IS SUPPORTED AND SECURE.
3. INCHES DECK WITH SELF-SEALING STRIP FACE UP AT ROOF EDGE. INSTALL STARTER STRIP ALONG RAKE EDGE.
4. VERIFY DECK IS CLEAN AND SMOOTH. FLAT, FREE OF DEBRIS, WAVES, OR PROJECTIONS, PROPERLY SLOPED AND SUITABLE FOR INSTALLATION OF ROOF SYSTEM.
5. VERIFY DECK SURFACES ARE DRY AND FREE OF RAIN, SNOW OR ICE.
6. VERIFY THAT ROOF OPENINGS, CURBS, AND PENETRATIONS THROUGH ROOF ARE SOLIDLY SET, AND CANT STRIPS ARE IN PLACE.
7. CLEAN SUBSTRATE THOROUGHLY PRIOR TO ROOF APPLICATION.
8. DO NOT BEGIN WORK UNTIL OTHER WORK THAT REQUIRES FOOT OR EQUIPMENT TRAFFIC ON ROOF IS COMPLETE.
9. APPLY MANUFACTURER'S RECOMMENDED VAPOR RETARDER OR TEMPORARY ROOF BEFORE ROOF INSTALLATION.
10. PERFORM WORK IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND NRCA (RM) APPLICABLE REQUIREMENTS.
11. REMOVE WRAPPINGS, EMPTY CONTAINERS, PAPER, AND OTHER DEBRIS FROM THE ROOF DAILY. DISPOSE OF DEBRIS IN COMPLIANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.
12. IN AREAS WHERE FINISHED SURFACES ARE SOLED BY WORK OF THIS SECTION, CONSULT MANUFACTURER OF SURFACES FOR CLEANING ADVICE AND CONFORM TO THEIR DOCUMENTED INSTRUCTIONS.
13. REPAIR OR REPLACE DEFACED OR DAMAGED FINISHES CAUSED BY WORK OF THIS SECTION.

I. PROTECTION:

1. PROTECT INSTALLED ROOFING AND FLASHINGS FROM CONSTRUCTION OPERATIONS.
2. WHERE TRAFFIC MUST CONTINUE OVER FINISHED ROOF MEMBRANE, PROTECT SURFACES USING DURABLE MATERIALS.

07 6200 - SHEET METAL FLASHING AND TRIM

- A. STANDARDS:
- FABRICATED SHEET METAL ITEMS, INCLUDING FLASHINGS, COUNTERFLASHINGS, AND OTHER ITEMS INDICATED IN SCHEDULE.
- ASTM A811 - VOLUNTARY SPECIFICATION FOR ANODIZED ARCHITECTURAL ALUMINUM 2014 (2015 ERRATA).
- ASTM C602 - STANDARD SPECIFICATION FOR ELASTOMERIC JOINT SEALANTS 2016.
- CDA A4050 - COPPER IN ARCHITECTURE - HANDBOOK CURRENT EDITION.
- SMCMAA (ASMA) - ARCHITECTURAL SHEET METAL MANUAL 2012.

B. SUBMITTALS:

1. SHOP DRAWINGS: INDICATE MATERIAL PROFILE, JOINTING PATTERN, JOINTING DETAILS, FASTENING METHODS, FLASHINGS, TERMINATIONS, AND INSTALLATION DETAILS.
- C. QUALITY ASSURANCE:
1. PERFORM WORK IN ACCORDANCE WITH SMCMAA (ASMA) AND CDA A4050 REQUIREMENTS AND STANDARD DETAILS, EXCEPT AS OTHERWISE INDICATED.

D. DELIVERY, STORAGE, AND HANDLING:

1. STACK MATERIAL TO PREVENT TWISTING, BENDING, AND ABRASION, AND TO PREVENT VENTILATION. SLOPE METAL SHEETS TO ENSURE DRAINAGE.
2. PREVENT CONTACT WITH MATERIALS THAT COULD CAUSE DISCOLORATION OR STAINING.

E. PRODUCTS:

- PREFINISHED ALUMINUM: ASTM B209 (ASTM B209M), 20 GAUGE, (0.032 INCH) THICK, PLAIN FINISH, SHOP PRE-COATED WITH MODIFIED SILICONE COATINGS.
1. FLUOROPOLYMER COATING: HIGH PERFORMANCE ORGANIC FINISH: AAMA 2604, MULTIPLE COAT, THERMALLY CURED FLUOROPOLYMER FINISH SYSTEM.
2. COLOR: AS SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD COLORS.

F. FABRICATION:

1. FORM SECTIONS TRUE TO SHAPE, ACCURATE IN SIZE, SQUARE, AND FREE FROM DISTORTION OR DEFECTS.
2. FORM PICES IN LONGEST POSSIBLE LENGTHS.
3. HEN EXPOSED EDGES ON UNDERSIDE: 1/2 INCH METER AND SEAM CORNERS.
4. FORM MATERIAL WITH FLAT LOCK SEAMS, EXCEPT WHERE OTHERWISE INDICATED; AT MOVING JOINTS, USE SEALED LAPPED, BAYONET-TYPE OR INTERLOCKING HOOKED SEAMS.
5. FABRICATE FLASHINGS TO ALLOW TCE TO EXTEND 2 INCHES OVER ROOFING GRAVEL, RETURN AND BRAKE EDGES.

G. ACCESSORIES:

1. FASTENERS: GALVANIZED STEEL, WITH SOFT NEOPRENE WASHERS.
2. PRIMER: ZINC CHROMATE TYPE.
3. CONCEALED SEALANTS: NON-CURING BUTYL SEALANT.
4. EXPOSED SEALANTS: ASTM C602, ELASTOMERIC SEALANT, WITH MINIMUM MOVEMENT CAPABILITY AS RECOMMENDED BY MANUFACTURER FOR SUBSTRATES TO BE SEALED; COLOR TO MATCH ADJACENT MATERIAL.

H. INSTALLATION:

1. SECURE FLASHINGS IN PLACE USING CONCEALED FASTENERS, AND USE EXPOSED FASTENERS ONLY WHERE PERMITTED.
2. APPLY PLASTIC CEMENT COMPOUND BETWEEN METAL FLASHINGS AND FELT FLASHINGS.
3. FIT FLASHINGS TIGHT IN PLACE, MAKE CORNERS SQUARE, FLASHINGS TRUE AND STRAIGHT IN PLANES, AND LINES ACCURATE TO PROFILES.
4. SEAL METAL JOINTS WATERTIGHT.

I. JOINT SEALANT BACKING:

1. GENERAL: PROVIDE SEALANT BACKINGS OF MATERIAL THAT ARE NONSTAINING, ARE COMPATIBLE WITH JOINT SUBSTRATES, SEALANTS, PRIMERS, AND OTHER JOINT FILLERS, AND ARE APPROVED FOR APPLICATIONS INDICATED BY SEALANT MANUFACTURER BASED ON FIELD EXPERIENCE AND LABORATORY TESTING.
2. CYLINDRICAL SEALANT BACKINGS: ASTM C1330, TYPE C (CLOSED-CELL MATERIAL WITH A SURFACE SKIN), AND OF SIZE AND DENSITY TO CONTROL SEALANT DEPTH AND OTHERWISE CONTRIBUTE TO PRODUCING OPTIMUM SEALANT PERFORMANCE.
3. BOND-BREAKER TAPE: POLYETHYLENE TAPE OR OTHER PLASTIC TAPE RECOMMENDED BY SEALANT MANUFACTURER FOR PREVENTING SEALANT FROM ADHERING TO RIGID, INFLEXIBLE JOINT-FILLER MATERIALS OR JOINT SURFACES AT BACK OF JOINT. PROVIDE SELF-ADHESIVE TAPE WHERE APPLICABLE.

F. MISCELLANEOUS MATERIALS:

1. PRIMER: MATERIAL RECOMMENDED BY JOINT-SEALANT MANUFACTURER WHERE REQUIRED FOR ADHESION OF SEALANT TO JOINT SUBSTRATES INDICATED, AS DETERMINED FROM PRECONSTRUCTION JOINT-SEALANT-SUBSTRATE TESTS AND FIELD TESTS.
2. CLEANERS FOR NONPOROUS SURFACES: CHEMICAL CLEANERS ACCEPTABLE TO MANUFACTURERS OF SEALANTS AND SEALANT BACKING MATERIALS, FREE OF OILY RESIDUES OR OTHER SUBSTANCES CAPABLE OF STAINING OR HARMING JOINT SUBSTRATES AND ADJACENT NONPOROUS SURFACES IN ANY WAY, AND FORMULATED TO PROMOTE OPTIMUM ADHESION OF SEALANTS TO JOINT SUBSTRATES.
3. BOND-BREAKER TAPE: POLYETHYLENE TAPE OR OTHER PLASTIC TAPE RECOMMENDED BY SEALANT MFR FOR PREVENTING SEALANT FROM ADHERING TO RIGID, INFLEXIBLE JOINT-FILLER MATERIALS OR JOINT SURFACES AT BACK OF JOINT.
4. MASKING TAPE: NONSTAINING, NONABSORBENT MATERIAL COMPATIBLE WITH JOINT SEALANTS AND SURFACES ADJACENT TO JOINTS.

6. INSTALLATION: COMPLY WITH ASTM C1193, ASTM C919 FOR ACoustICAL JOINTS; AND AS FOLLOWS:
1. REMOVE ALL LOOSE MATERIAL, CLEAN AND PRIME JOINTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, AND PROTECT ADJACENT SURFACES.
2. INSTALL BOND-BREAKER TAPE WHERE JOINT BACKINGS ARE NOT USED.
3. INSTALL SEALANT TOOLED CONCAVE, FREE OF AIR POCKETS, FOREIGN EMBEDDED MATTER, RIDGES, AND SAGS, AND PROTECT UNTIL FULLY CURED; SEALANT WITH DUST AND DEBRIS EMBEDDED IN SURFACE SHALL BE CAUSE FOR REJECTION.

DIVISION 8 - OPENINGS

08 0671 - DOOR HARDWARE

- A. SUBMITTALS: PRODUCT DATA AND SHOP DRAWINGS WITH DETAILS OF EACH OPENING, SHOWING ELEVATIONS, GLAZING, FRAME PROFILES, AND ANY INDICATED FINISH REQUIREMENTS.
- B. HOLLOW METAL DOOR AND FRAME MANUFACTURERS:
1. CEOO DOOR, AN ASSA ABLOY GROUP COMPANY: WWW.ASSAABLOYDOSS.COM.
2. DE LA FONTAINE INC.: WWW.DELAFONTAINE.COM.
3. REPLIC DOORS, AN ALLEGION BRAND: WWW.REPLICDOOR.COM.
4. STEELCRAFT, AN ALLEGION BRAND: WWW.ALLEGION.COM.

C. SOUND-RATED HOLLOW METAL DOORS AND FRAMES:

1. OVERLY DOOR COMPANY: WWW.OVERLY.COM.

D. PRODUCTS:

1. STROKES: PROVIDE MANUFACTURER'S STANDARD WROUGHT BOX STRIKE FOR EACH LATCH OR LOCK BOLT, WITH CURVED UP EXTENDED TO PROTECT FRAME. FINISH TO MATCH HARDWARE SET. PROVIDE STANDARD (OPEN) STRIKE PLATES FOR INTERIOR DOORS WHERE WOOD DOOR FRAMES ARE USED.
2. IN GENERAL, HARDWARE FINISH SHALL BE U155 (SATIN NICKEL) UNLESS SPECIFIED DIFFERENTLY ON HARDWARE SCHEDULE.
3. SUPPLY CAL ROVAL HOFS FLEXIBLE DOOR STOPS IN THE APARTMENT DWELLING UNITS. USE 2 1/4" HP-23 HINGE STOPS WHERE FLEXIBLE STOPS CANNOT BE USED.
4. SUPPLY OUT SWINGING EXTERIOR DOORS WITH NON REMOVABLE PINS.

C. INSTALLATION:

1. MOUNT HARDWARE UNITS AT HEIGHTS INDICATED IN 'RECOMMENDED LOCATIONS FOR BUILDERS HARDWARE FOR STANDARD STEEL DOORS AND FRAMES' BY THE DOOR AND HARDWARE INSTITUTE, EXCEPT AS SPECIFICALLY INDICATED OR REQUIRED TO COMPLY WITH GOVERNING REGULATIONS, AND EXCEPT AS MAY BE OTHERWISE DIRECTED BY ARCHITECT. MOUNT HARDWARE IN UNITS DESIGNATED FOR USE BY THE HANDICAPPED AT HEIGHTS RECOMMENDED FOR USE BY THE HANDICAPPED.
2. INSTALL EACH HARDWARE ITEM IN COMPLIANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS, WHEREVER CUTTING AND FITTING IS REQUIRED TO INSTALL HARDWARE ONTO OR INTO SURFACES WHICH ARE LATER TO BE PAINTED OR FINISHED IN ANOTHER WAY, COORDINATE REMOVAL, STORAGE AND REINSTALLATION OR APPLICATION OF SURFACE PROTECTIONS WITH FINISHING WORK SPECIFIED IN THE DIVISION 9 SECTIONS. DO NOT INSTALL SURFACE MOUNTED UNITS UNTIL FINISHES HAVE BEEN COMPLETED ON THE SUBSTRATE.
3. SET UNITS LEVEL, PLUMB AND TRUE TO LINE AND LOCATION. ADJUST AND REINFORCE THE ATTACHMENT SUBSTRATE AS NECESSARY FOR PROPER INSTALLATION AND OPERATION.
4. DRILL AND COUNTERBANK UNITS WHICH ARE NOT FACTORY PREPARED FOR ANCHORAGE FASTENERS. SPACE FASTENERS AND ANCHORS IN ACCORDANCE WITH INDUSTRY STANDARDS.
5. METAL THRESHOLDS SHALL BE SET IN A SOLID BED OF NON STAINING THICKLO, BASE CAULKING.
6. ADJUST AND CHECK EACH OPERATING ITEM OF HARDWARE AND EACH DOOR, TO ENSURE PROPER OPERATION OR FUNCTION OF EVERY UNIT. REPLACE UNITS WHICH CANNOT BE ADJUSTED TO OPERATE FREELY AND SMOOTHLY AS INTENDED FOR THE APPLICATION MADE.
7. FINAL ADJUSTMENT, WHEREVER HARDWARE INSTALLATION IS MADE MORE THAN ONE MONTH PRIOR TO ACCEPTANCE OR OCCUPANCY OF A SPACE OR AREA, RETURN TO THE WORK DURING THE WEEK PRIOR TO ACCEPTANCE OR OCCUPANCY, AND MAKE FINAL CHECK AND ADJUSTMENT OF ALL HARDWARE ITEMS IN SUCH SPACE OR AREA. CLEAN OPERATING ITEMS AS NECESSARY TO RESTORE PROPER FUNCTION AND FINISH OF HARDWARE AND DOORS. ADJUST DOOR CONTROL DEVICES TO COMPENSATE FOR FINAL OPERATION OF HEATING AND VENTILATING EQUIPMENT.

HARDWARE SET: 1.0

FOR USE ON DOOR (S):

N-101, N-102

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3 EA	HINGE	5881 4.5 X 4.5	BRUSHED NICKEL	IVE
1 EA	PRIVACY WDR IN HD	L3498P6 6GA L583-303	BRUSHED NICKEL	SCH
1 EA	SURFACE CLOSER	4040P REG	BRUSHED NICKEL	LCN
1 EA	KICK PLATE	8400 10" X 2" LDW 8-CS	BRUSHED NICKEL	IVE
1 EA	WALL STOP	WS4640G7CVX	BRUSHED NICKEL	IVE
3 EA	SLENCER	S864	GRY	NE

HARDWARE SET: 2.0

FOR USE ON DOOR (S):

N-103

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3 EA	HINGE	5881 4.5 X 4.5	BRUSHED NICKEL	IVE
1 EA	STOREROOM LOCK	L908P6 6GA	BRUSHED NICKEL	SCH
1 EA	HO STOP	905	BRUSHED NICKEL	GLY
3 EA	SLENCER	S864	GRY	IVE

HARDWARE SET: 3.0

FOR USE ON DOOR (S):

S-100C

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3 EA	HINGE	5881HW 4.5 X 4.5 NRP	BRUSHED NICKEL	IVE
1 EA	STOREROOM LOCK	N08LD RHO	BRUSHED NICKEL	SCH
1 EA	FISC CORE	PERMANENT CORE	BRUSHED NICKEL	SCH
1 EA	KEYED CONST CORE	KEYED CONST CORE	BRUSHED NICKEL	SCH
1 EA	SURFACE CLOSER	4040P SHUSHS MC	BRUSHED NICKEL	LCN
1 EA	RAN DRIP	142	BRUSHED NICKEL	ZER
1 EA	GASKETING	328-S	BRUSHED NICKEL	ZER
1 EA	DOOR SWEEP	39	BRUSHED NICKEL	ZER
1 EA	THRESHOLD	555-223	BRUSHED NICKEL	ZER
1 EA	DOOR CONTACT	679-05HM OR WD AS REQD	BRUSHED NICKEL	SCB

08 1113 - HOLLOW METAL DOORS AND FRAMES

- A. SUBMITTALS: PRODUCT DATA AND SHOP DRAWINGS WITH DETAILS OF EACH OPENING, SHOWING ELEVATIONS, GLAZING, FRAME PROFILES, AND ANY INDICATED FINISH REQUIREMENTS.

B. HOLLOW METAL DOOR AND FRAME MANUFACTURERS:

1. CEOO DOOR, AN ASSA ABLOY GROUP COMPANY: WWW.ASSAABLOYDOSS.COM.
2. DE LA FONTAINE INC.: WWW.DELAFONTAINE.COM.
3. REPLIC DOORS, AN ALLEGION BRAND: WWW.REPLICDOOR.COM.
4. STEELCRAFT, AN ALLEGION BRAND: WWW.ALLEGION.COM.

C. SOUND-RATED HOLLOW METAL DOORS AND FRAMES:

1. OVERLY DOOR COMPANY: WWW.OVERLY.COM.

D. DESIGN CRITERIA:

1. STEEL USED FOR FABRICATION OF DOORS AND FRAMES SHALL COMPLY WITH ONE OR MORE OF THE FOLLOWING RECOMMENDATIONS: (A) GALVANNEALD STEEL CONFORMING TO ASTM A593M/593. COLDCROLLED STEEL CONFORMING TO ASTM A1008/A1098M, OR HOT-ROLLED PICKLED AND OILED (HPO) STEEL CONFORMING TO ASTM A1011/A1011M. COMMERCIAL STEEL (CS) TYPE B FOR EACH.
2. 2" THICK DOOR FACE SHEETS: FLUSH.
3. GLAZED LIGHTS: NON-REMOVABLE STOPS ON NON-SECURE SIDE; SIZES AND CONFIGURATIONS AS INDICATED ON DRAWINGS. STYLE: MANUFACTURER'S STANDARD.
4. HOLLOW DOOR FACE SHEETS: FLUSH.
5. ZINC COATED: INTERIOR INTERIOR AND/OR EXTERIOR LOCATIONS: PROVIDE METAL COMPONENTS ZINC-COATED (GALVANNEALD AND/OR ZINC-IRON ALLOY COATED (GALVANNEALD) BY THE HOT-DIP PROCESS IN ACCORDANCE WITH ASTM A653/A638M, WITH MANUFACTURER'S STANDARD COATING THICKNESS, UNLESS NOTED OTHERWISE FOR SPECIFIC HOLLOW METAL DOORS AND FRAMES.
6. HOLLOW METAL PANELS: SAME CONSTRUCTION, PERFORMANCE, AND FINISH AS DOORS.
7. COMBINED REQUIREMENTS: IF A PARTICULAR DOOR AND FRAME UNIT IS INDICATED TO COMPLY WITH MORE THAN ONE TYPE OF REQUIREMENT, COMPLY WITH THE SPECIFIED REQUIREMENTS FOR EACH TYPE, FOR EACH DOOR THAT IS SO INDICATED AS BEING SOUND-RATED MUST COMPLY WITH THE REQUIREMENTS SPECIFIED FOR EXTERIOR DOORS AND FOR SOUND-RATED DOORS, WHERE TWO REQUIREMENTS COMPLY, COMPLY WITH THE MOST STRINGENT.

E. HOLLOW METAL DOOR:

1. EXTERIOR DOORS: THERMALLY INSULATED.
2. BASED ON SDI STANDARDS: ANSISDI A250.8 (SDI-100).
3. PHYSICAL PERFORMANCE LEVEL: 250,000 CYCLES, IN ACCORDANCE WITH ANSISDI A250.4.
4. MODEL 1 - FULL FLUSH.
5. DOOR FACE METAL THICKNESS: 20 GAUGE, 0.032 INCH, MINIMUM.
6. DOOR FACE METAL THICKNESS: 1/4 INCH, MINIMUM.
7. DOOR FINISH: FACTORY PRIMED AND FIELD FINISHED.
8. DOOR THICKNESS: 1-3/4 INCH, NOMINAL.
9. DOOR FACE METAL THICKNESS: 20 GAUGE, 0.032 INCH, MINIMUM.
10. DOOR THICKNESS: 1-3/4 INCH, NOMINAL.
11. DOOR FINISH: FACTORY PRIMED AND FIELD FINISHED.

INTERIOR DOORS: NON-FIRE RATED:

- A. BASED ON SDI STANDARDS: ANSISDI A250.8 (SDI-100).
- B. LEVEL 1 - STANDARD-UTD.
- C. PHYSICAL PERFORMANCE LEVEL: 250,000 CYCLES, IN ACCORDANCE WITH ANSISDI A250.4.
- D. MODEL 1 - FULL FLUSH.
5. DOOR FACE METAL THICKNESS: 20 GAUGE, 0.032 INCH, MINIMUM.
6. DOOR FACE METAL THICKNESS: 1/4 INCH, MINIMUM.
7. DOOR FINISH: FACTORY PRIMED AND FIELD FINISHED.

3. FIRE-RATED DOORS:

- A. BASED ON SDI STANDARDS: ANSISDI A250.8 (SDI-100).
- B. LEVEL 1 - STANDARD-UTD.
- C. PHYSICAL PERFORMANCE LEVEL: 250,000 CYCLES, IN ACCORDANCE WITH ANSISDI A250.4.
- D. MODEL 1 - FULL FLUSH.
5. DOOR FACE METAL THICKNESS: 20 GAUGE, 0.032 INCH, MINIMUM.
6. DOOR FACE METAL THICKNESS: 1/4 INCH, MINIMUM.
7. DOOR FINISH: FACTORY PRIMED AND FIELD FINISHED.
8. DOOR THICKNESS: 1-3/4 INCH, NOMINAL.
9. DOOR FACE METAL THICKNESS: 20 GAUGE, 0.032 INCH, MINIMUM.
10. DOOR THICKNESS: 1-3/4 INCH, NOMINAL.
11. DOOR FINISH: FACTORY PRIMED AND FIELD FINISHED.

1. MAXIMUM AIR LEAKAGE: 3.0 CFM/50 FT OF DOOR OPENING AT 0.1 INCH W.G. PRESSURE, WHEN TESTED IN ACCORDANCE WITH UL 1784 AT BOTH AMBIENT AND ELEVATED TEMPERATURES.

2. GASKETING: PROVIDE GASKETING OR EDGE SEALING AS NECESSARY TO ACHIEVE LEAKAGE LIMIT.

3. LABEL: INCLUDE THE "S" LABEL ON FIRE-RATING LABEL OF DOOR.

J. DOOR MATERIAL: MANUFACTURER'S STANDARD CORE MATERIAL/CONSTRUCTION IN COMPLIANCE WITH REQUIREMENTS.

K. DOOR FINISH: FACTORY PRIMED AND FIELD FINISHED.

L. DOOR FINISH: FACTORY PRIMED AND FIELD FINISHED.

F. HOLLOW METAL FRAMES:

1. COMPLY WITH STANDARDS AND/OR CUSTOM GUIDELINES AS INDICATED FOR CORRESPONDING DOOR IN ACCORDANCE WITH APPLICABLE DOOR FRAME REQUIREMENTS.
2. INTERIOR DOOR FRAMES: NON-FIRE RATED: FACE WELDED TYPE: FRAME FINISH: FACTORY FINISHED.
- A. FULL LENGTH STOPS.
- B. FRAME METAL THICKNESS: 18 GAUGE, 0.042 INCH, MINIMUM.
3. DOOR FRAMES: FIRE-RATED: FACE WELDED TYPE: FIRE RATING: SAME AS DOOR, LABELED.
- A. FULL LENGTH STOPS.
- B. FRAME METAL THICKNESS: 18 GAUGE, 0.042 INCH, MINIMUM.
4. SOUND-RATED DOOR FRAMES: FULL PROFILE/CONTINUOUSLY WELDED TYPE.
- A. FRAME METAL THICKNESS: 18 GAUGE, 0.042 INCH, MINIMUM.
5. FRAMES FOR WOOD DOORS: COMPLY WITH FRAME REQUIREMENTS IN ACCORDANCE WITH CORRESPONDING DOOR.
6. BORDOWOOD LITES GLAZED FRAMES: CONSTRUCTION AND FACE DIMENSIONS TO MATCH DOOR FRAMES, AND AS INDICATED ON DRAWINGS.
7. FRAMES IN MASONRY WALLS: SIZE TO SUIT MASONRY COURSING WITH HEAD MEMBER 4 INCH HIGH TO FULL OPENING WITHOUT CUTTING MASONRY UNITS.
8. FRAMES WIDER THAN 48 INCHES: REINFORCE WITH STEEL CHANNEL FITTED TIGHTLY INTO FRAME HEAD, FLUSH WITH TOP.

G. FINISHES:

1. PRIMER: RUST-INHIBITING, COMPLYING WITH ANSISDI A250.10, DOOR MANUFACTURER'S STANDARD.

H. ACCESSORIES:

1. GLAZING: AS INDICATED IN DRAWINGS OR AS SPECIFIED.
2. REMOVABLE STOPS: FORMED SHEET STEEL, SHAPE AS INDICATED ON DRAWINGS, MITERED OR BUTTED CORNERS, PREPARED FOR COUNTERSINK STYLE TAMPER PROOF SCREWS.
3. PAIR MATCHING AND SET MATCHING.
4. CONSTRUCTION:
- A. INTERIOR VENEER: FIVE OR SEVEN PLY, STRUCTURAL COMPOSITE LUMBER CORES.
5. SIZES AS INDICATED IN DRAWINGS.

E. INSTALLATION:

1. INSTALL DOORS AND FRAMES IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND RELATED REQUIREMENTS OF SPECIFIED DOOR AND FRAME STANDARDS OR CUSTOM GUIDELINES INDICATED.
2. INSTALL PREFINISHED FRAMES AFTER PAINTING AND WALL FINISHES ARE COMPLETE.
3. INSTALL FIRE RATED UNITS IN ACCORDANCE WITH NFPA 80.
4. COORDINATE FRAME ANCHOR PLACEMENT WITH WALL CONSTRUCTION.

08 1416 - FLUSH WOOD DOORS

- A. SUBMITTALS: PRODUCT DATA, PREFINISHED DOOR SKIN SAMPLES, AND DOOR SCHEDULE INDICATING DOOR AND FRAME SIZES, TYPES, ELEVATIONS, DETAILS, AND HARDWARE WITH DOOR AND HARDWARE NUMBERING CORRESPONDING TO THOSE USED IN CONSTRUCTION DOCUMENTS.

B. BASIS OF DESIGN: LINCOLN PARK, MASONITE, LE CHATEAU COLLECTION, HOLLOW CORE DOORS OR APPROVED EQUAL.

C. DOORS: 1-3/8" THICK; BEHND, SIZES, SPECIES, AND DESIGNS AS INDICATED COMPLYING WITH WDMA I.S.1-A.

1. GRADE: PREMIUM.

2. VENEER MATCHING: BUSH AND ROUNING.

3. PAIR MATCHING AND SET MATCHING.

4. CONSTRUCTION:

A. INTERIOR VENEER: FIVE OR SEVEN PLY, STRUCTURAL COMPOSITE LUMBER CORES.

5. SIZES AS INDICATED IN DRAWINGS.

D. FABRICATION AND FINISHING:

1. FACTORY FIT DOORS TO SUIT FRAME OPENINGS TO COMPLY WITH REFERENCED STANDARD, COMPLY WITH NFPA 80 FOR FIRE-RESISTANCE RATED DOORS.
2. FACTORY MACHINE DOORS FOR HARDWARE THAT IS NOT SPECIFIED APPLIED.
3. CUT AND TRIM OPENINGS TO COMPLY WITH REFERENCED STANDARDS.
4. LITE KITS: MATCHING WOOD STOPS.
5. FACTORY FINISH DOORS FOR TRANSPARENT FINISH WITH STAIN AND MANUFACTURER'S STANDARD FINISH COMPARABLE TO AWI, SYSTEM TR-6, CONVERSION VARNISH OR AWI SYSTEM TR-6, CATALYZED POLYURETHANE.

E. INSTALLATION:

1. COMPLY WITH WDMA'S "HOW TO STORE, HANDLE, FINISH, INSTALL, AND MAINTAIN WOOD DOORS" - ALIGNED AND FITTED IN FRAME WITH UNIFORM CLEARANCES.
2. SET IN TWO PCE W/ 8" SPLT JAMB FRAMES WITH 1X4 WOOD CASING.

08 1613 - FIBERGLASS DOORS

- A. SUBMITTALS: PRODUCT DATA, PREFINISHED DOOR SKIN SAMPLES, AND DOOR SCHEDULE INDICATING DOOR AND FRAME SIZES, TYPES, ELEVATIONS, DETAILS, AND HARDWARE WITH DOOR AND HARDWARE NUMBERING CORRESPONDING TO THOSE USED IN CONSTRUCTION DOCUMENTS.

B. DOORS: BASIS OF DESIGN: JELD-WEN - FIBERGLASS DOOR SERIES LOW-E GLAZING, PROVIDE: SIZES, AND DESIGNS AS INDICATED IN ELEVATIONS.

08 3100 - ACCESS DOORS AND PANELS

- A. SUBMITTALS: PRODUCT DATA.

B. PRODUCTS: PRIME-PAINTED FLUSH, UNINSULATED ACCESS DOORS FOR WALLS AND CEILINGS WITH FRAMESLESS FRAME AND SCREWDRIVER OPERATED FLUSH WITH FINISHED SURFACE. FIRE-RATED, SELF-LATCHING, AUTOMATIC CLOSING AT FIRE-RATED WALLS OR CEILINGS.

C. INSTALLATION: INSTALL FLUSH TO FINISHED DRYWALL SURFACE WITH FRAME TAPED AND SANDED FLUSH WITH WALL OR CEILING SURFACE AND FINISH TO MATCH ADJACENT SURFACE.

08 3613 - SECTIONAL DOORS

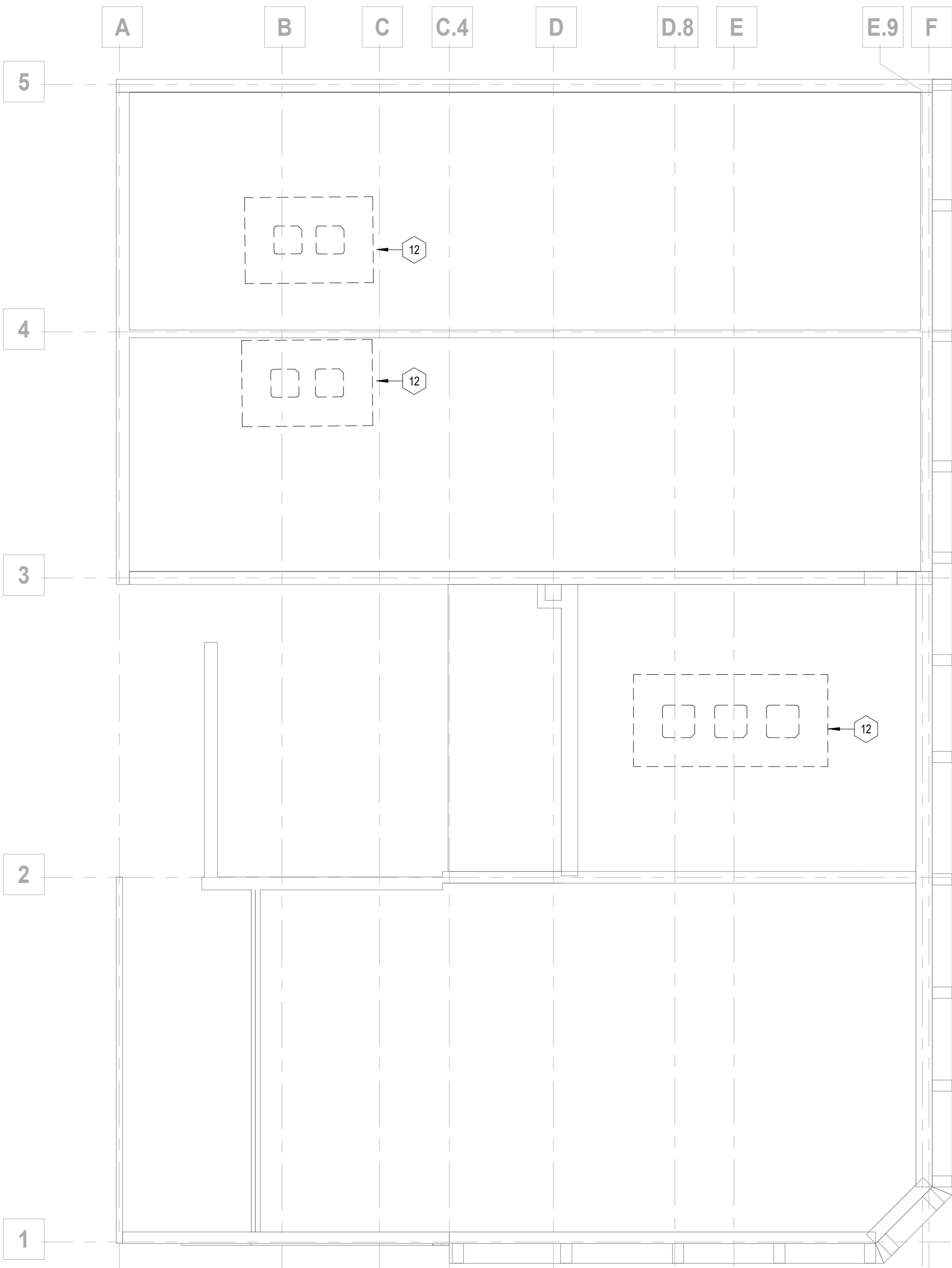
- A. SUBMITTALS: PRODUCT DATA, AND COLOR SAMPLES. DOOR SCHEDULE INDICATING DOOR AND FRAME SIZES, TYPES, ELEVATIONS, DETAILS, AND HARDWARE WITH DOOR AND HARDWARE NUMBERING CORRESPONDING TO THOSE USED IN CONSTRUCTION DOCUMENTS.

B. BASIS OF DESIGN:

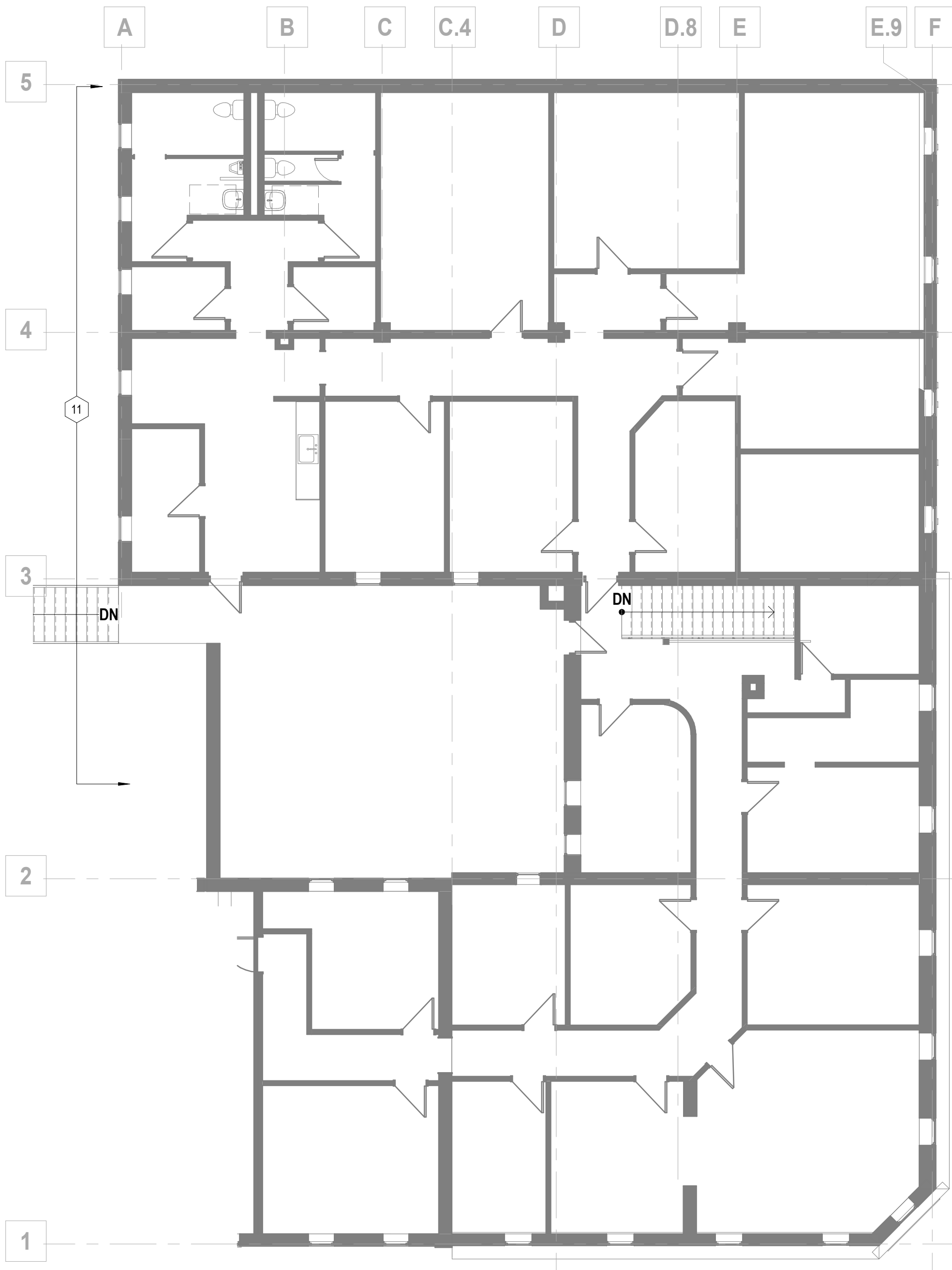
1. DOORS SHALL BE COMPLETE WITH ALL HARDWARE, INCLUDING MULTI-FUNCTION CONTROL PANEL AND TWO HAND-HELD ROLLING CODE REMOTES.
2. DE LA FONTAINE INC.: WWW.DELAFONTAINE.COM.

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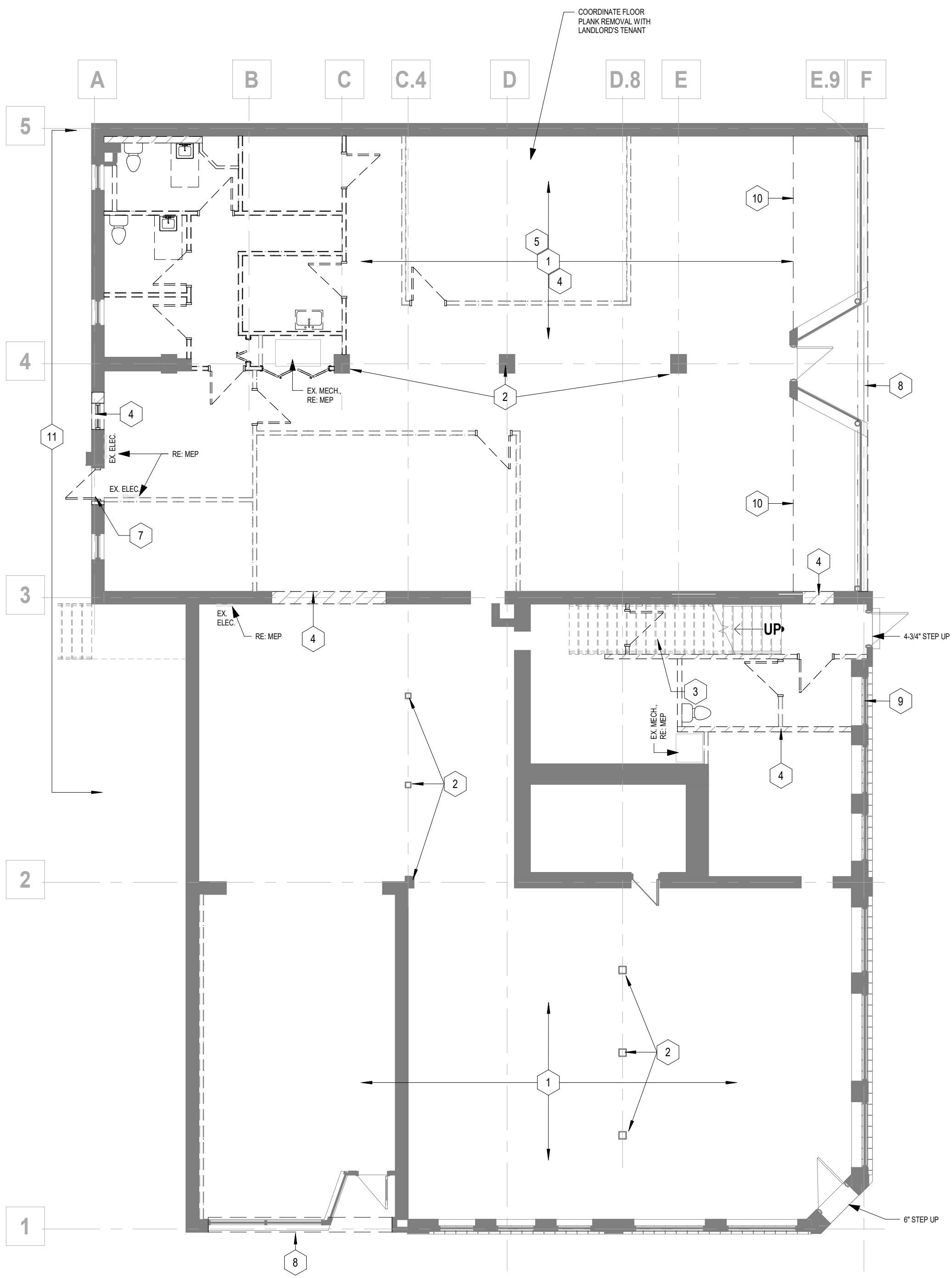
A12 ROOF DEMO PLAN
1/8" = 1'-0"



A8 2ND FLOOR DEMO PLAN
1/8" = 1'-0"



A4 1ST FLOOR DEMO PLAN
1/8" = 1'-0"



GEN. DEMO NOTES

1. CONTRACTOR TO VISIT PROJECT SITE AND BUILDING, PRIOR TO BID.
2. BUILDING AND SITE TO REMAIN SECURE DURING DEMOLITION AND CONSTRUCTION.
3. PROTECT ALL ITEMS TO REMAIN (WALLS, PLUMBING FIXTURES, PIPING, HVAC UNITS, COLUMNS, ETC.).
4. CARE IS TO BE EXERCISED IN THE DEMOLITION OPERATIONS. EXISTING SURFACES TO REMAIN SHALL BE PROTECTED. ANY DAMAGE INCURRED AS A RESULT OF DEMOLITION SHALL BE THE CONTRACTOR'S RESPONSIBILITY. THE CONTRACTOR SHALL BEAR THE COST OF REPAIRING SUCH DAMAGE.
5. ALL OPENINGS IN WALLS AND ROOFS RESULTING FROM EQUIPMENT AND/OR PIPE REMOVAL SHALL BE SEALED WEATHERTIGHT. ALL CONDITIONS SHALL BE LEFT SAFE AND HAZARD FREE.
6. CONTRACTOR TO REPAIR ANY AREAS DAMAGED DURING DEMOLITION.
7. CONTRACTOR TO COORDINATE DEMOLITION OPENINGS WITH NEW PLANS AND ELEVATIONS.
8. ALL MEP SYSTEMS TO BE REMOVED TO BE FULLY COORDINATED WITH EXISTING CONDITIONS. ALL SYSTEMS TO BE REMOVED COMPLETELY THAT ARE NOT BEING RE-UTILIZED.
9. PROTECT EXISTING CONDITIONS AND MAINTAIN WEATHER TIGHTNESS FOR ALL OCCUPIED/UNOCCUPIED SPACES, BOTH VERTICALLY AND HORIZONTALLY FOR THE ENTIRE DURATION THAT THE BUILDING IS EXPOSED TO THE ELEMENTS. PATCH/REPAIR/REPLACE AS REQUIRED.

DEMO FLOOR PLAN
KEYED NOTES

MARK	DESCRIPTION
1	REMOVE EXISTING FLOOR AND ALL ASSOCIATED CONSTRUCTION. PREPARE ENTIRE SUB-FLOOR FOR NEW DRAIN TILE AND CLEAN GRAVEL. EXTERIOR WALLS AND FOUNDATIONS TO BE PREPARED FOR NEW WATERPROOFING BELOW GRADE.
2	PROTECT COLUMNS AND BRACE AS NECESSARY TO PROVIDE FULL STABILITY DURING REWORK OF SUB-FLOOR AREA.
3	EXISTING MAIN STAIR TO 2ND LEVEL TO REMAIN. PROTECT STAIR AND BRACE AS REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY WHILE SUB-FLOOR IS REMOVED. REFER TO STRUCTURAL FOR ADDITIONAL INFORMATION.
4	REMOVE EXISTING DOORS/FRAMES/WALLS AND ROUGH-INS FOR MEP SYSTEMS. REFER TO MEP FOR ADDITIONAL NOTES.
5	REMOVE EXISTING RESTROOM CORE AND ALL ASSOCIATED MEP SYSTEMS. REFER TO MEP FOR ADDITIONAL INFORMATION.
6	REMOVE WINDOW AND PREPARE OPENING FOR NEW EGRESS DOOR. REFER TO STRUCTURAL FOR ADDITIONAL INFORMATION.
7	REMOVE EXISTING WEATHERHOOD AND LOUVER ABOVE EXTERIOR DOOR. REMOVE DOOR AND ENLARGE OPENING FOR NEW EGRESS DOOR. REFER TO STRUCTURAL FOR ADDITIONAL INFORMATION.
8	REMOVE WINDOW SYSTEM AND ALL FAILED COMPONENTS. PREPARE OPENING FOR NEW WINDOW SYSTEM, FRAMING AND FLASHINGS.
9	REMOVE BROKEN GLASS. PREPARE FOR NEW GLASS INSTALL.
10	REMOVE PLATFORM AND ALL NON-STRUCTURAL FRAMING.
11	REMOVE ALL COMPONENTS THAT NO LONGER ARE ACTIVE, IN GOOD WORKING ORDER, OR ABANDONED. COORDINATE WITH MEP FOR ADDITIONAL ITEMS TO BE REMOVED.
12	PREPARE ROOF FOR NEW RTU CURBS AND OPENINGS. COORDINATE EXACT LOCATIONS WITH MEP/STRUCTURAL DOCUMENTS.

MAIN STREET BUILDING IMPROVEMENTS

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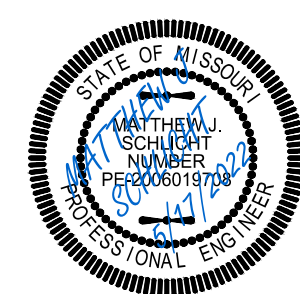
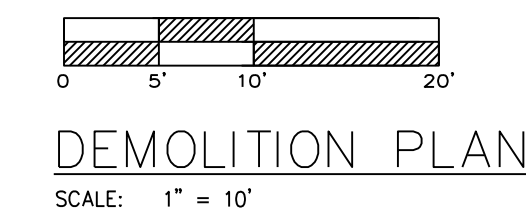
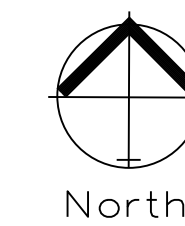
ISSUE DATE: 21 APRIL, 2022
COLLINS WEBB #: 21121

DEMO PLANS

PERMIT DOCUMENTS



3075 SW Market Street, Lee's Summit, Mo. 64063 P: 816.249.2270
(www.collinswebb.com)



Matthew J. Schlicht
MO PE 2006015708
KS PE 19071
OK PE 23225
NE PE E-14335

REVISIONS

City Comments 5/17/2022

C.010

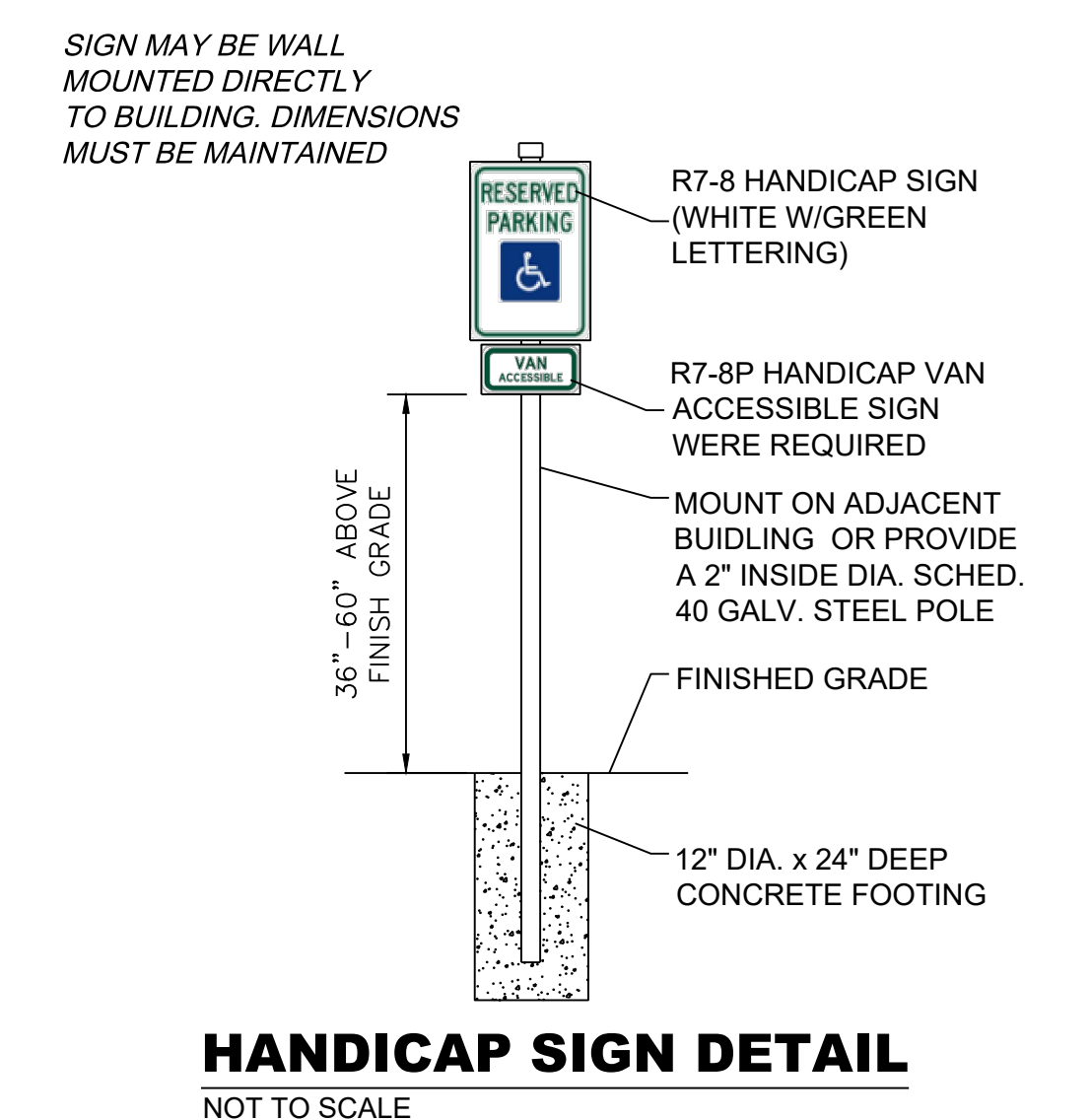
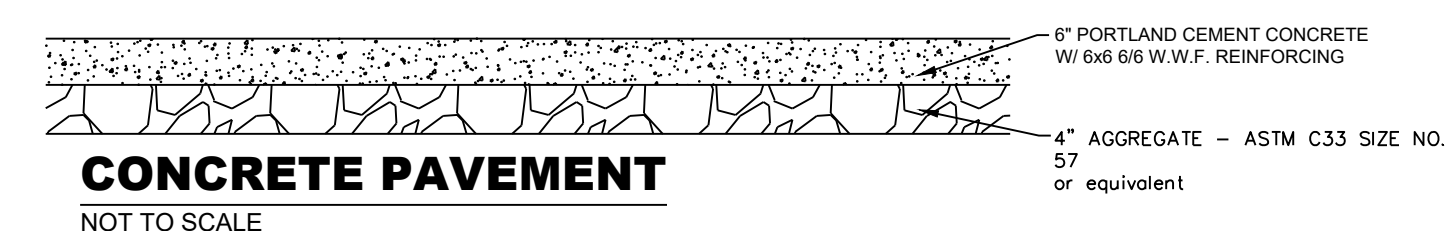
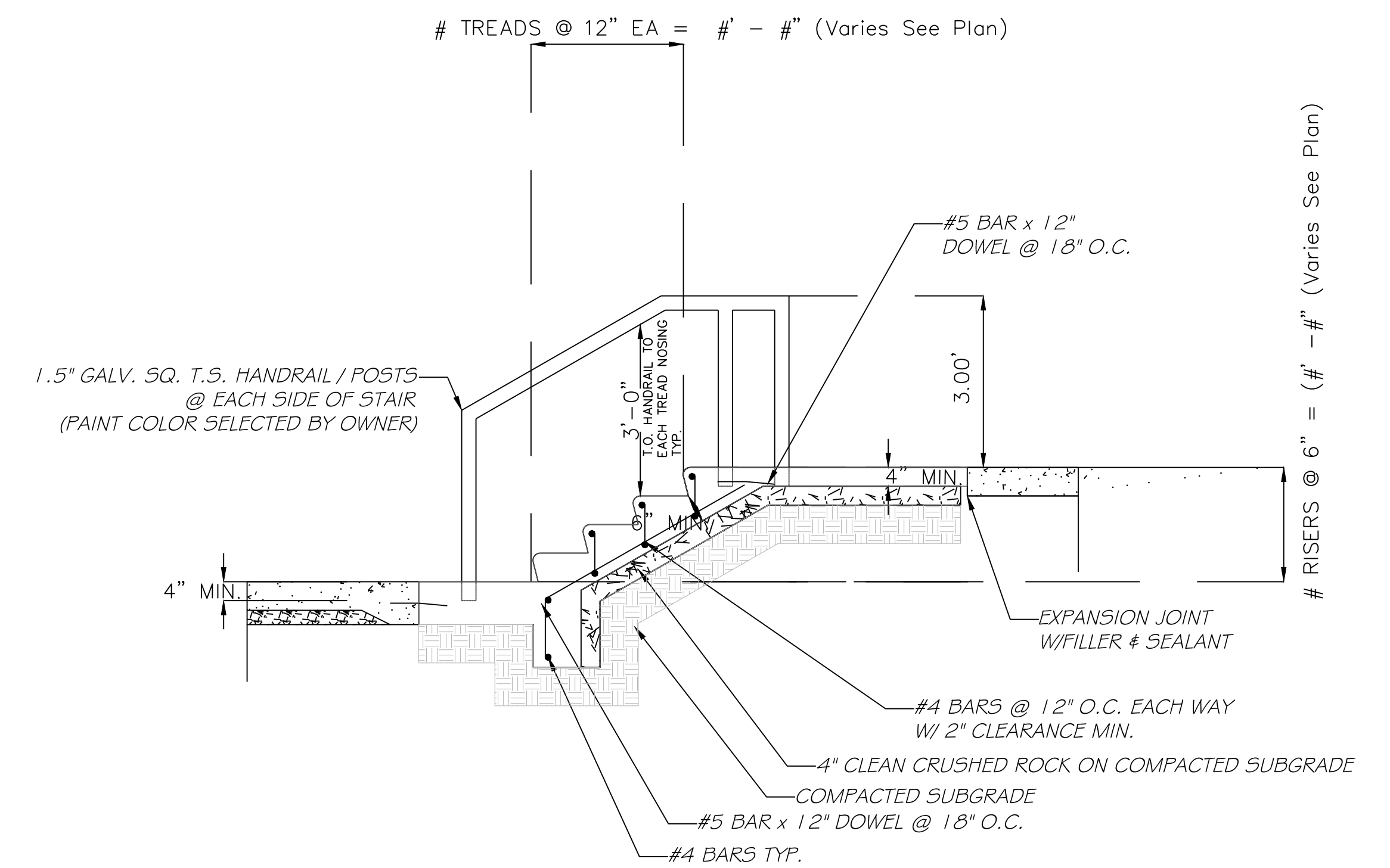
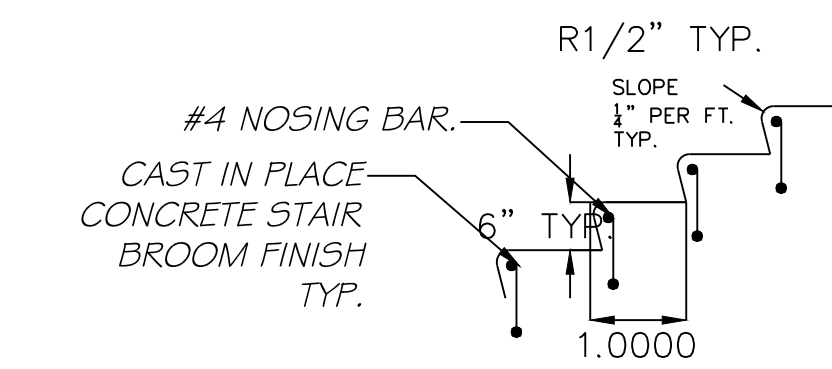
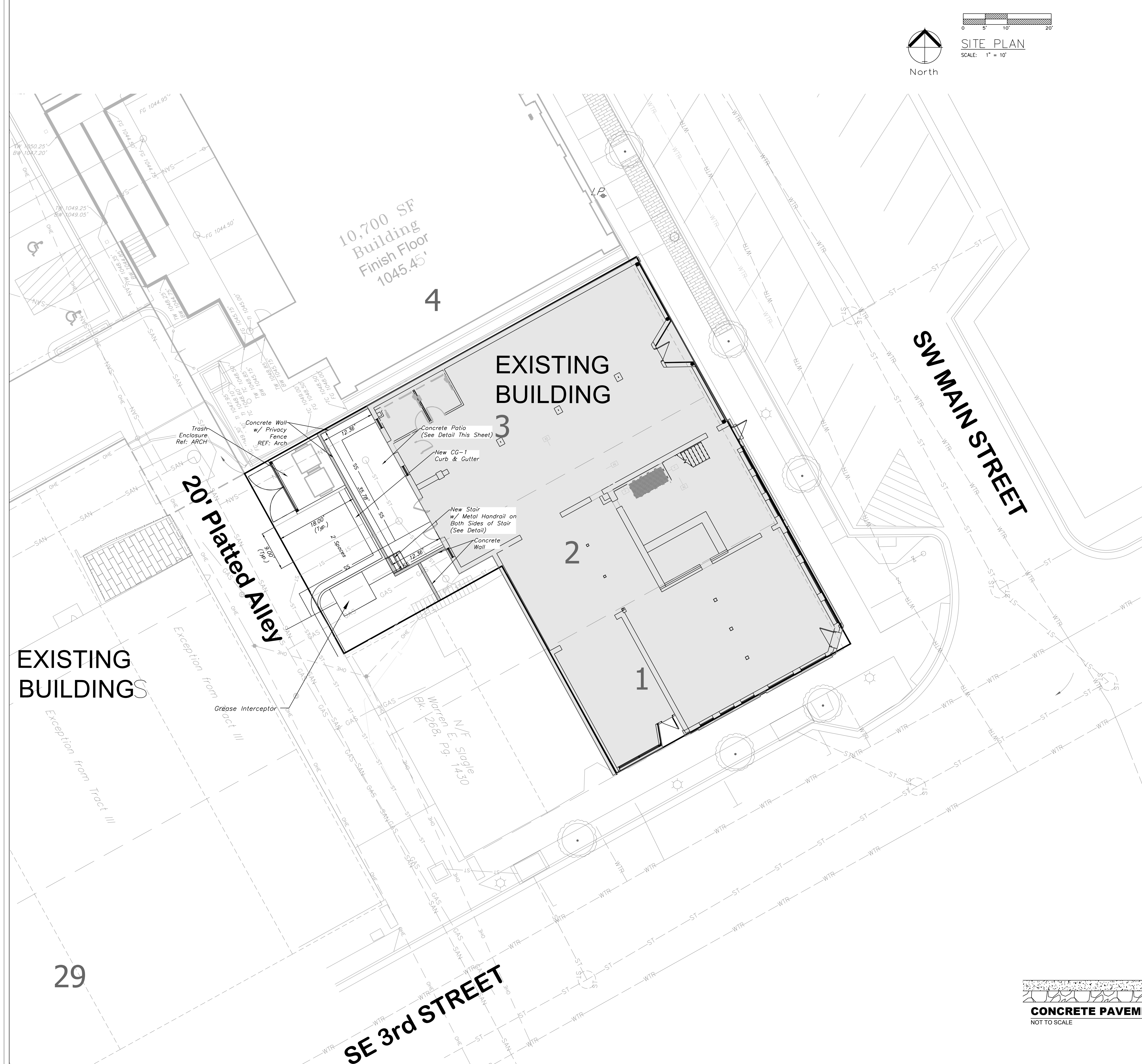
Demolition Plan
Preliminary Development Plans
230 SW Main Street
Lee's Summit, Jackson County, Missouri

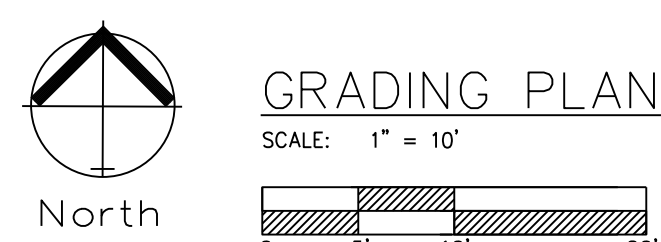
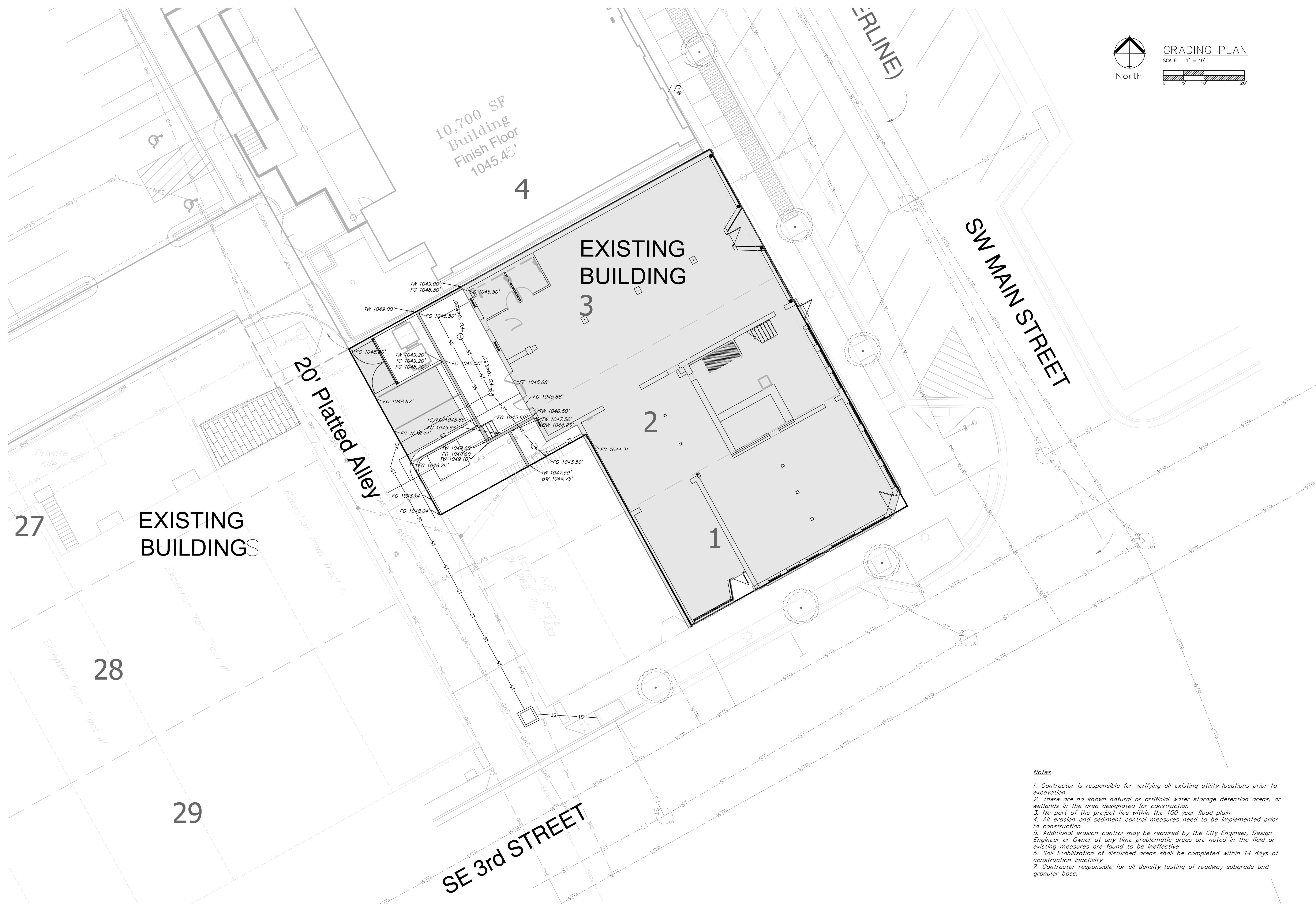
Project: 228 SW MAIN, L&NO
Issue Date:
April 21, 2022

Preliminary Development Plans
230 SW Main Street
Lee's Summit, Jackson County, Missouri

Professional Registration
Missouri
Engineering 2005002186-D
Surveying 2005000319-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering E254
Nebraska
Engineering CA2821

ENGINEERING SOLUTIONS
ENGINEERING & SURVEYING
5010 S. 10TH STREET
LEE'S SUMMIT, MO 64082
P: 816.623.9888 F: 816.623.9849





- Notes**
1. Contractor is responsible for verifying all existing utility locations prior to excavation.
 2. There are no known natural or artificial water storage detention areas, or wetlands in the area designated for construction.
 3. No part of the project lies within the 100 year flood plain.
 4. All erosion and sediment control measures need to be implemented prior to construction.
 5. Additional erosion control may be required by the City Engineer, Design Engineer or Owner at any time problematic areas are noted in the field or existing measures are found to be ineffective.
 6. Soil Stabilization of disturbed areas shall be completed within 14 days of construction inactivity.
 7. Contractor responsible for all density testing of roadway subgrade and granular base.

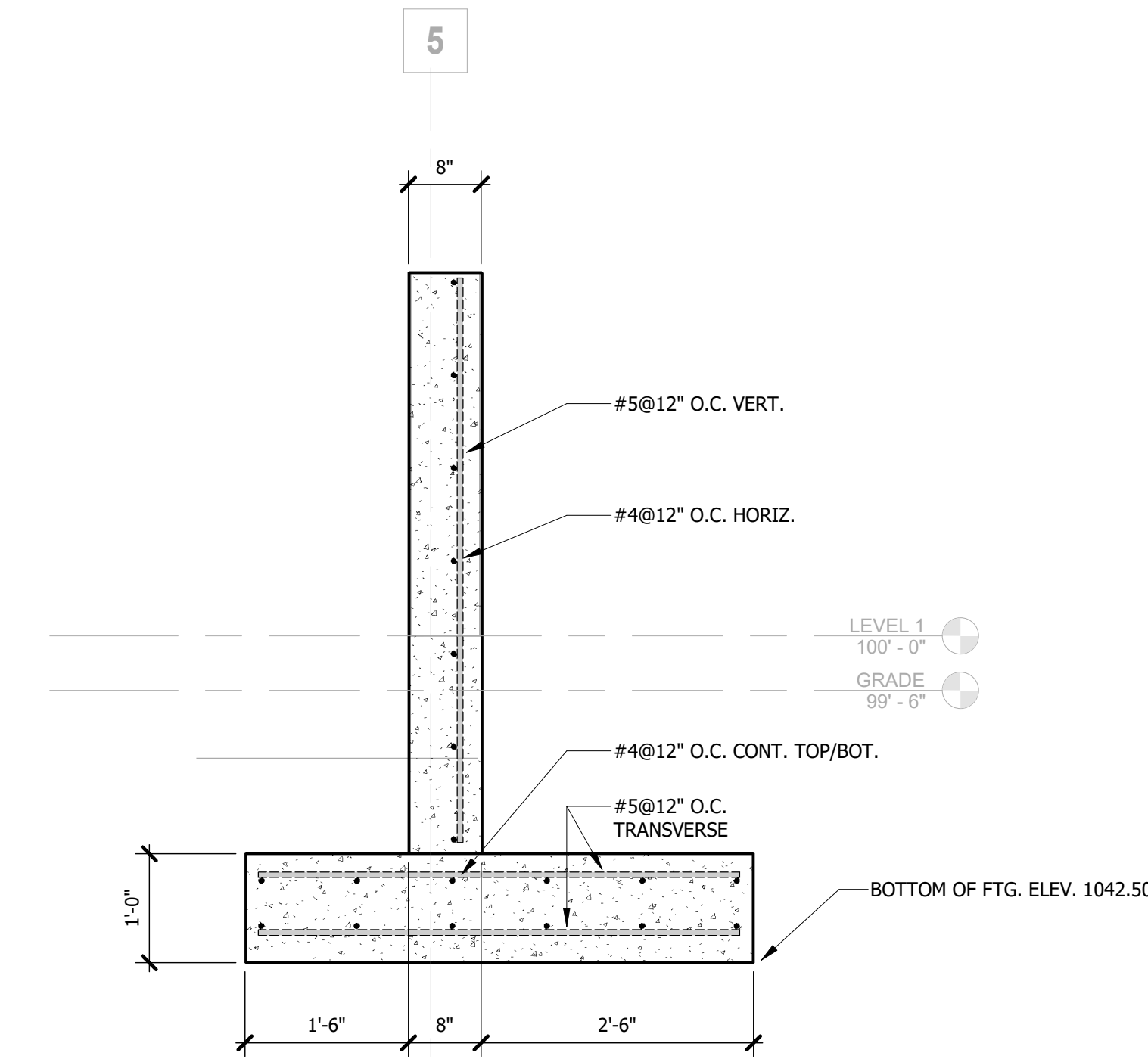
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- ALL WORK SHALL CONFORM TO 2018 INTERNATIONAL BUILDING CODE AS ADOPTED AND AMENDED BY THE CITY OF LEE'S SUMMIT, MISSOURI.
- DESIGN LOADS
 - OVERALL BUILDING CLASSIFICATIONS
 - RISK CATEGORY II
 - SNOW IMPORTANCE FACTOR, I_s 1.00
 - ICE IMPORTANCE FACTOR - WIND, I_w 1.00
 - SEISMIC IMPORTANCE FACTOR, I_e 1.00
 - SLAB ON GRADE FLOOR LOADS
 - LIVE LOAD 100 PSF
 - CONCENTRATED LOAD 3000 LB ACTING ON AN AREA 4.5 IN. BY 4.5 IN.
 - ROOF DEAD AND LIVE LOADS
 - DEAD LOAD TOP CHORD 20 PSF
 - DEAD LOAD BOT. CHORD 5 PSF
 - LIVE LOAD TOP CHORD 20 PSF
 - LIVE LOAD BOT. CHORD 0 PSF (U.N.O.)
 - ROOF SNOW LOADS
 - GROUND SNOW LOAD, P_g 15 PSF
 - FLAT ROOF SNOW LOAD, P_f 11.34 PSF
 - SNOW EXPOSURE FACTOR, C_e 0.9
 - THERMAL FACTOR, C_t 1.2
 - SLOPE FACTOR, C_s 0.6
 - DRIFTING PER CODE
 - WIND LOADS
 - BASIC WIND SPEED (3 SECOND GUST) 107 MPH
 - EXPOSURE CATEGORY C
 - INTERNAL PRESSURE COEFFICIENT, G_{ci} +/- 0.18
 - COMPONENTS AND CLADDING PER ASCE 7-16, REFER TO XX/XXXX.
 - SEISMIC LOADS
 - S_s 0.189
 - S_1 0.105
 - SITE CLASS C
 - S_{ms} 0.164
 - S_{m1} 0.105
 - SEISMIC DESIGN CATEGORY B
 - SEISMIC FORCE RESISTING SYSTEM WOOD WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR
 - DESIGN BASE SHEAR C_W 0.025
 - DESIGN RESPONSE COEFFICIENT, C_s 6.5
 - RESPONSE MODIFICATION COEFFICIENT, R 6.5
 - ANALYSIS PROCEDURE USED (ELF) PROCEDURE
- ROOF RAIN LOADS
 - 60-MIN DURATION/100 YEAR RAIN INTENSITY, I 3.20 IN
 - 15-MIN DURATION/100 YEAR RAIN INTENSITY, I 1.61 IN

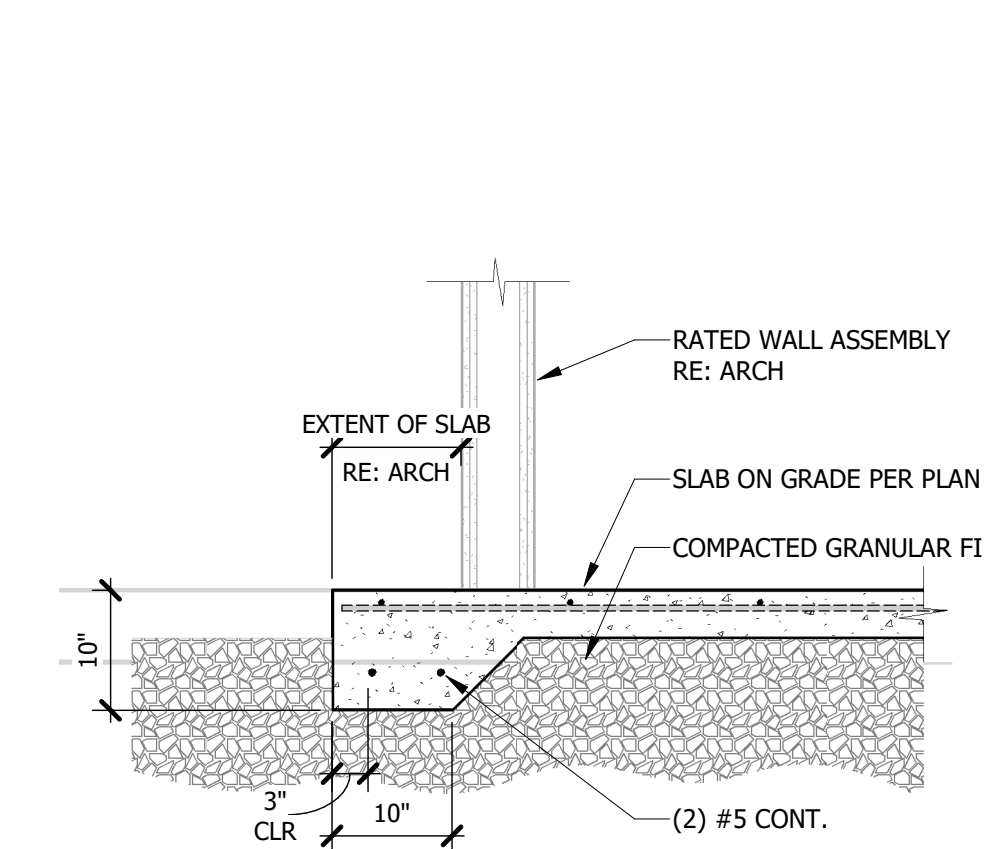
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS PRIOR TO FABRICATION. IF DISCREPANCIES EXIST BETWEEN CONTRACT DRAWINGS, AND/OR SHOP DRAWINGS NOTIFY THE ENGINEER OF RECORD.
- THE CONTRACTOR SHALL REVIEW DRAWINGS FROM ALL OTHER DISCIPLINES FOR PERTINENT MISC. ITEMS OR INFORMATION RELATED TO THE STRUCTURAL WORK AND COORDINATE AS REQUIRED.
- THE BUILDING IS NOT STRUCTURALLY STABLE UNTIL ALL CONNECTIONS, FRAMING, SHEAR WALLS, PERMANENT BRACING, AND EXTERIOR LOAD-BEARING WALLS ARE COMPLETE AND HAVE ACHIEVED THEIR RESPECTIVE DESIGN STRENGTHS. CONTRACTOR IS SOLELY RESPONSIBLE FOR MAINTAINING STRUCTURAL STABILITY DURING ERECTION AND CONSTRUCTION. TEMPORARY BRACING SYSTEMS ARE NOT TO BE REMOVED UNTIL STRUCTURAL WORK IS COMPLETE.
- PROVIDE ADEQUATE SHORING DURING CONSTRUCTION TO RESIST FORCES SUCH AS WIND AND UNBALANCED LOADS DUE TO CONSTRUCTION. DO NOT BACKFILL UNTIL CONCRETE HAS CURED 14 DAYS.

- CONCRETE
 - CAST-IN-PLACE CONCRETE CONSTRUCTION SHALL CONFORM TO LATEST APPLICABLE AMERICAN CONCRETE INSTITUTE DOCUMENTS, ACI-301, 305, 306, 315, 318, AND 347 UNLESS NOTED OTHERWISE IN THESE CONTRACT DOCUMENTS.
 - ALL CONCRETE, UNLESS NOTED OTHERWISE, SHALL DEVELOP A 28 DAY COMPRESSIVE STRENGTH AND HAVE MAXIMUM WATER/CEMENT RATIOS AS FOLLOWS:
 - FOOTINGS, GRADE BEAMS, WALLS, BEAMS, COLUMNS: 4000 PSI (w/c MAX 0.45)
 - SLAB ON GRADE: 4000 PSI (w/c MAX 0.42)
 - REFER TO THE SPECIFICATION FOR AIR-ENTRAINED CONCRETE.
 - SLABS-ON-GRADE SHALL DEVELOP A 90 DAY COMPRESSIVE STRENGTH. IT IS THE INTENT OF THESE CONCRETE SPECIFICATIONS THAT THE CONTRACTOR SUPPLY CONCRETE MIXES WITH A MINIMUM AMOUNT OF WATER IN ORDER TO LIMIT PLASTIC SHRINKAGE CRACKING IN FRESHLY PLACED CONCRETE. IT IS EXPECTED THAT PRODUCING WORKABILITY FOR CONCRETE MIXES WILL REQUIRE THE ADDITION OF WATER-REDUCING CHEMICAL ADMIXTURES.
 - CONCRETE MIX DESIGNS SHALL INCLUDE ALL APPLICABLE ADMIXTURES.
 - CONCRETE SLUMP SHALL BE A MAXIMUM OF 4" +/- 1" (ASTM C-145) AS DELIVERED IN THE FIELD. CONTRACTOR MAY USE CHEMICAL ADMIXTURES TO ATTAIN A MAXIMUM SLUMP OF 8" FOR WORKABILITY IF ADMIXTURE IS TO BE ADDED IN THE FIELD IS SHALL BE ADDED THROUGH THE USE OF AN EXTERNAL MEASURING DEVICE (I.E. 5 GALLON BUCKET).
 - CONCRETE EXPOSED TO WEATHER, PARKED VEHICLES, AND/OR DEICING CHEMICAL SHALL CONTAIN 6% (+/- 1%) ENTRAINED AIR BY VOLUME.
 - CHAMFER ALL EXPOSED CORNERS OF CONCRETE WALLS, 3/4" UNLESS NOTED OTHERWISE.
 - ALL CONTROL JOINTS IN CONCRETE SLABS-ON-GRADE SHALL BE CUT TO 1/3 OF DEPTH WHEN USING WET-CUTTING PROCESS AND 1/4 OF DEPTH WHEN USING EARLY-ENTRY DRY-CUT PROCESS. CUT JOINTS AS SOON AS APPLICABLE PER PROCESS USED AFTER CONCRETE HAS BEEN PLACED WITHOUT DISLORGING AGGREGATE, OR USE A KEYED COLD JOINT.
 - CUT SLABS-ON-GRADE INTO AREAS OF APPROXIMATELY 225 SQUARE FEET MAINTAINING AS CLOSE TO SQUARE AREAS AS POSSIBLE. LENGTH TO WIDTH RATIOS OF JOINTED PANELS SHALL NOT EXCEED 1.5:1. COORDINATE LOCATIONS OF CONTROL JOINTS WITH ARCHITECT.
 - CONTROL JOINTS IN WALLS SHALL BE PLACED AT 20'-0" O.C. MAXIMUM UNLESS NOTED OTHERWISE. LOCATE JOINTS BESIDE PIERS INTEGRAL WITH WALLS, NEAR CORNERS, AND IN CONCEALED LOCATIONS WHERE POSSIBLE. CONSTRUCTION JOINTS MAY BE PLACED IN LIEU OF CONTROL JOINTS AT CONTRACTOR'S DISCRETION. COORDINATE LOCATION OF CONTROL JOINTS WITH ARCHITECT.
 - PRIOR TO PLACING CONCRETE IN ANY LOCATION, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO HAVE THOROUGHLY CHECKED AND COORDINATED ALL DIMENSIONS, ELEVATIONS, OPENINGS, RECESS, AND BLOCKOUTS AS SHOWN ON ANY CONTRACT DRAWINGS. IN THE EVENT ERRORS, CONFLICTS, OR OMISSIONS EXIST, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE ARCHITECT OR ENGINEER FOR NECESSARY CORRECTIVE ACTION.
 - EMBEDDED ITEMS ARE TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR PRIOR TO PLACING CONCRETE.
 - ANCHOR RODS AND ANCHOR BOLTS SHALL BE HELD IN PLACE WITH A RIGID TEMPLATE.
 - HORIZONTAL JOINTS BEYOND THOSE SHOWN IN THE CONTRACT DOCUMENTS SHALL NOT BE CONSTRUCTED WITHOUT THE APPROVAL OF THE ARCHITECT AND ENGINEER.

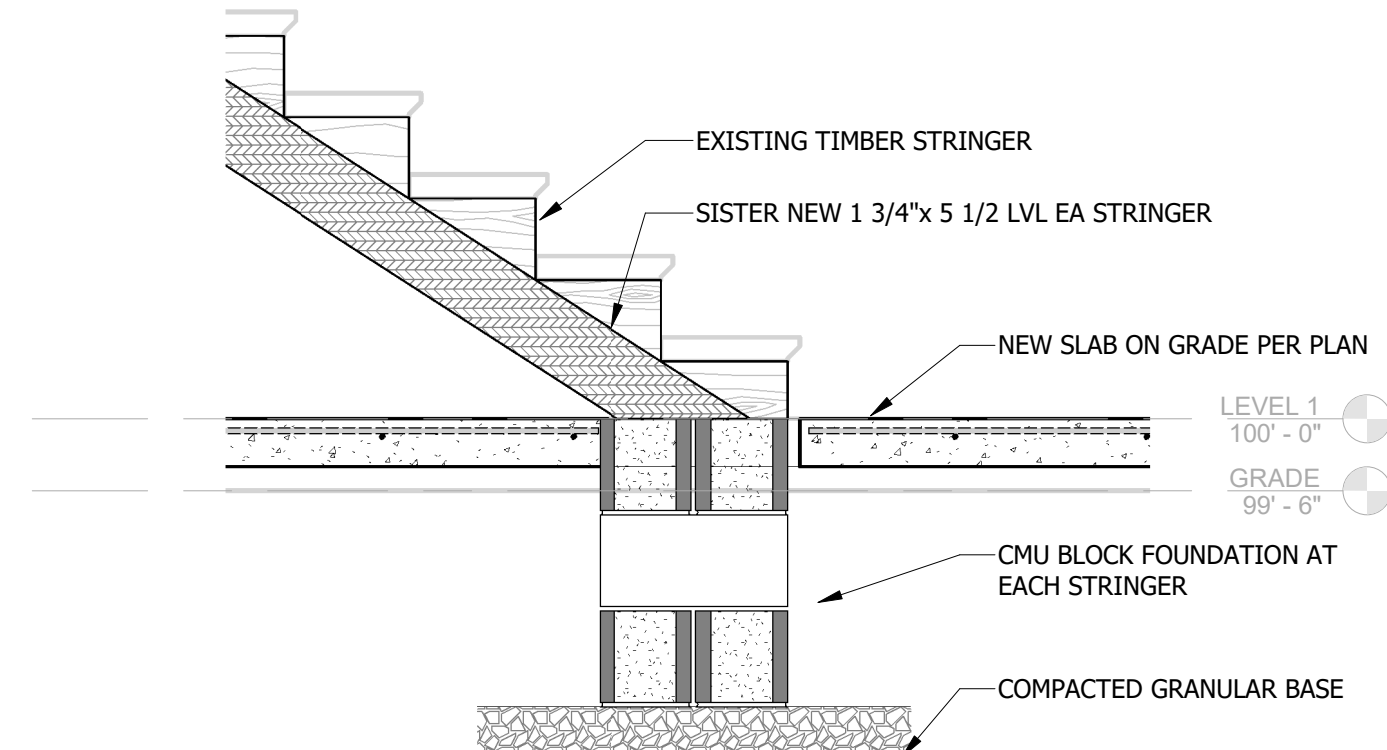
- MASONRY
 - MASONRY UNIT COMPRESSIVE STRENGTH (f'_m) = 1500 PSI. MORTAR - TYPE S.
 - LINTELS SHALL BE STEEL BEAMS OR MASONRY BOND BEAMS AS SHOWN ON THE PLANS. OPENINGS LESS THAN 4'-0" WIDE SHALL BE A BOND BEAM WITH (2) #5 CONTINUOUS EXTENDING PAST OPENINGS A MIN. OF 2'-0".
 - GROUT ALL REINFORCED CELLS AND CELLS BELOW GRADE SOLID.
 - PLACE A BOND BEAM WITH (2) #5 CONTINUOUS AT THE TOP OF WALLS & 8'-0" O.C. VERTICALLY.
 - REINFORCE 8" CMU WALLS WITH #5 @ 32" O.C. VERT. AND 12" CMU WALLS WITH #5 @ 24" O.C. VERT. UNLESS NOTED OTHERWISE. IN ADDITION, REINFORCE WALL CORNERS AND JAMBS OF WINDOWS AND DOORS WITH (2) #5 EXTENDING PAST OPENINGS A MIN. OF 2'-0".
 - BRACE THE TOPS OF PARTITION WALLS TO THE UNDERSIDE OF DECK.



8 RETAINING WALL
3/4" = 1'-0"



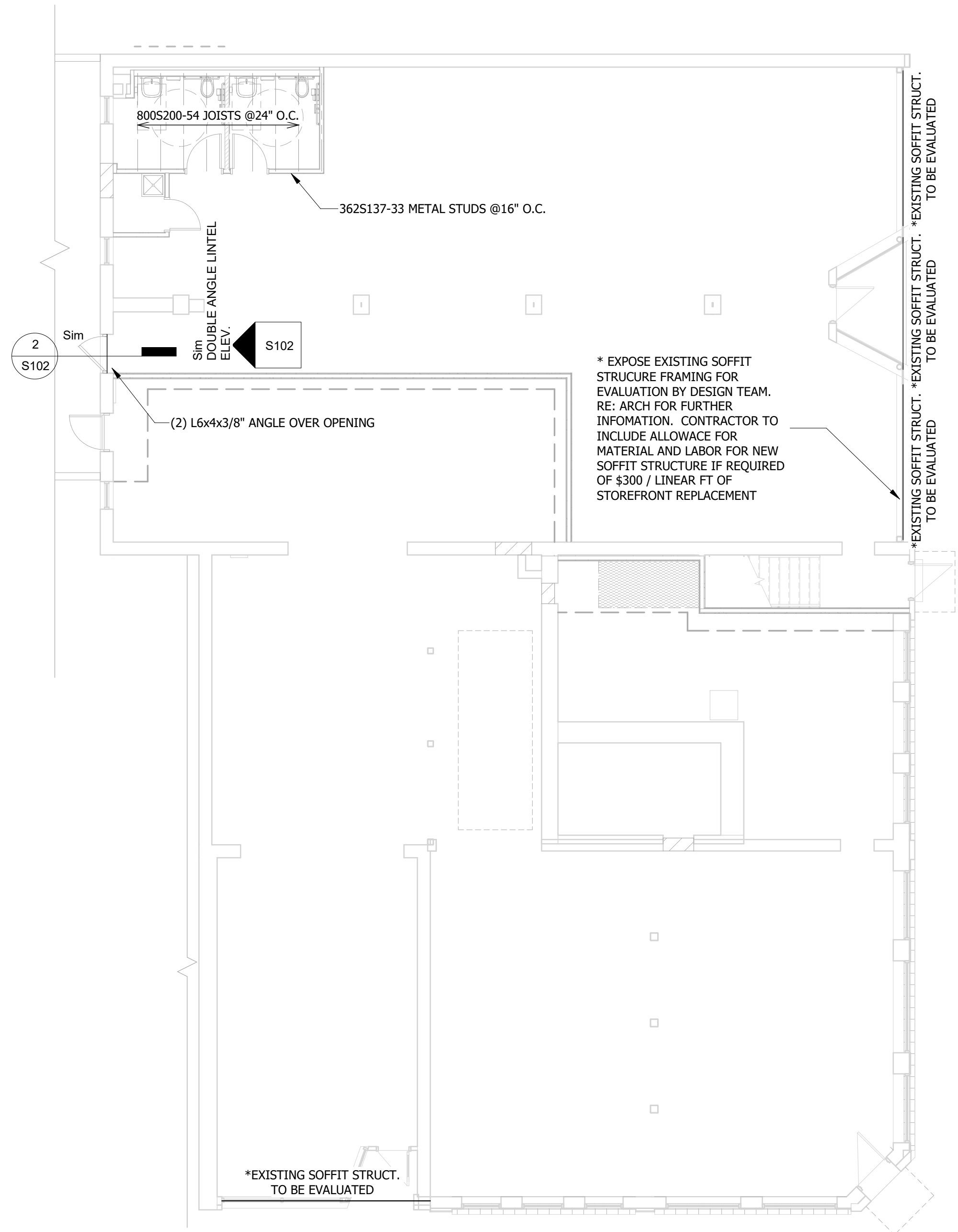
7 SLAB EDGE
3/4" = 1'-0"



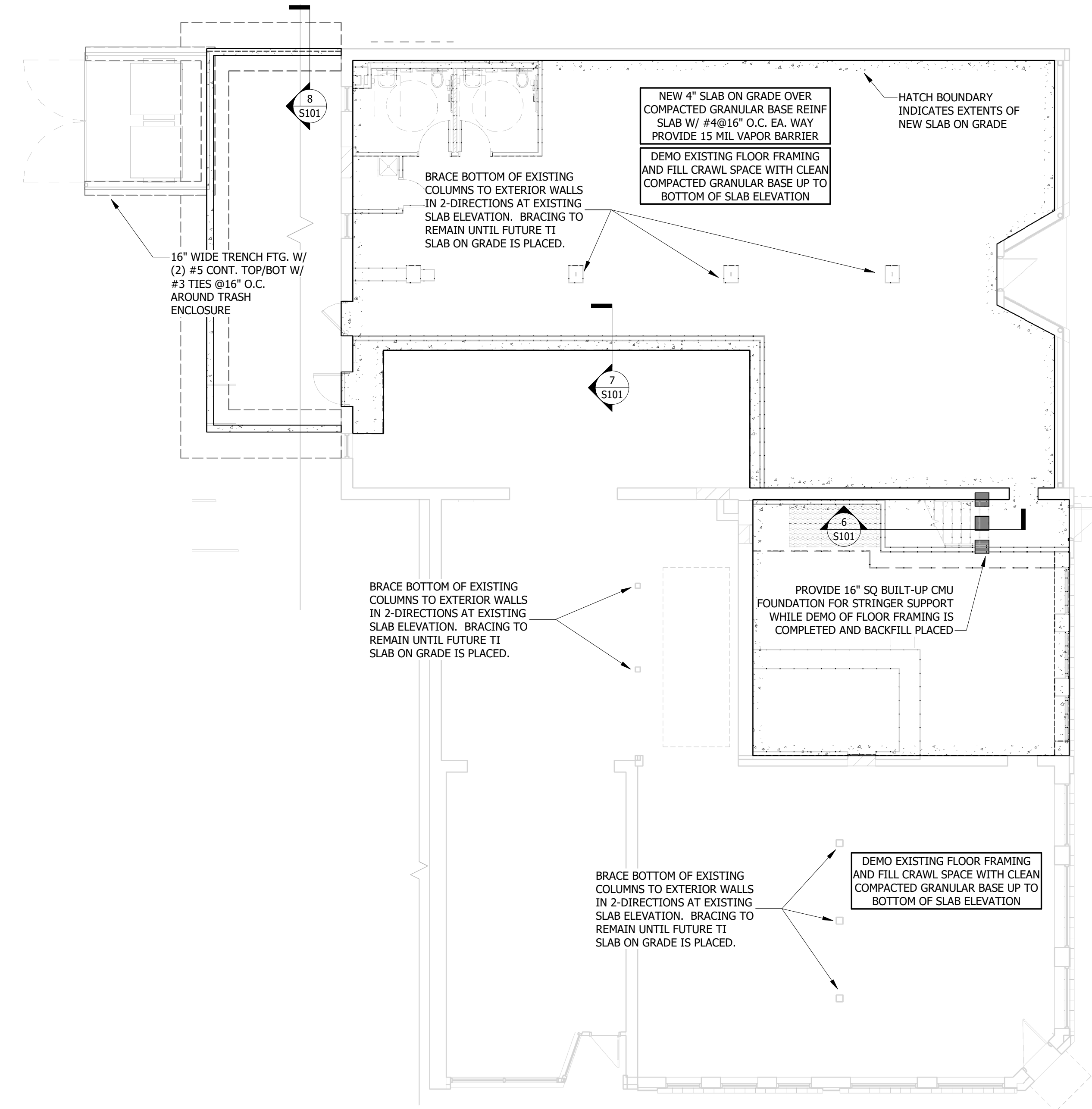
6 EGRESS STAIR FRAMING
3/4" = 1'-0"

FOUNDATION PLAN NOTES:

- TOP OF CONCRETE SLAB ELEVATION = 90'-0".
- 4" SLAB ON GRADE REINFORCED WITH 6x6 W2.9xW2.9 OVER 4" GRANULAR FILL AND 10 MIL VAPOR BARRIER, UNLESS NOTED OTHERWISE.
- SLAB CONTROL AND CONSTRUCTION JOINTS PER DETAIL A5/S301. CONSTRUCTION JOINTS MAY BE SUBSTITUTED FOR CONTROL JOINTS AT THE CONTRACTOR'S DISCRETION.
- ISOLATION JOINTS PER DETAIL A12/S301.
- FOOTING STEPS PER DETAIL E1/S301.
- #4x5'-0" LONG AT ALL RE-ENTRANT CORNERS.
- CONTRACTOR TO COORDINATE ALL FLOOR AND SLAB PENETRATIONS WITH ALL OTHER DISCIPLINES.
- DURING INSTALLATION OF ALL POST CONSTRUCTION ANCHORS, CARE MUST BE TAKEN TO AVOID ALL REINFORCING.
- REFER TO ARCHITECTURAL FOR NON-LOAD BEARING WALL LOCATIONS.
- ALL JACK STUDS TO BE CARRIED DOWN TO FOUNDATION LEVEL.
- SHEAR WALL HOLDOWN PER DETAIL K16/S201.
- REFER TO SHEET S201 FOR SHEAR WALL INFORMATION.
- ALL SILL ANCHORS TO BE 1/2" DIA. SIMPSON TITEN HD @32" WITH 3 1/2" EMBEDMENT.



9 2ND FLOOR PLAN
1/8" = 1'-0"



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



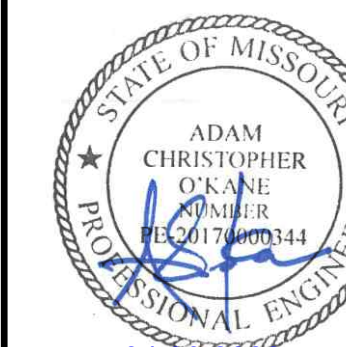
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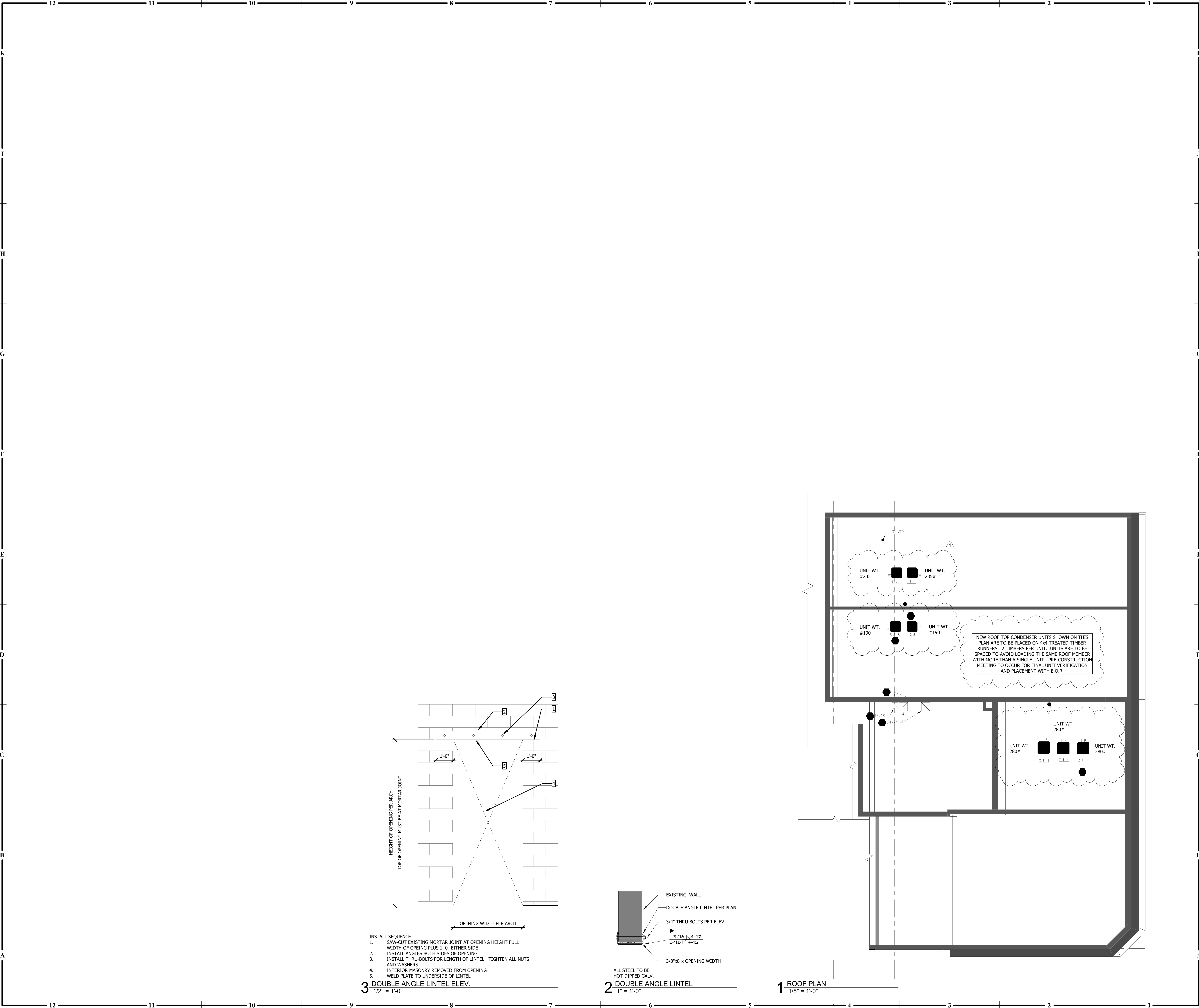
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COLLINS WEBB #: 21121

STRUCTURAL PLANS AND
SECTIONS

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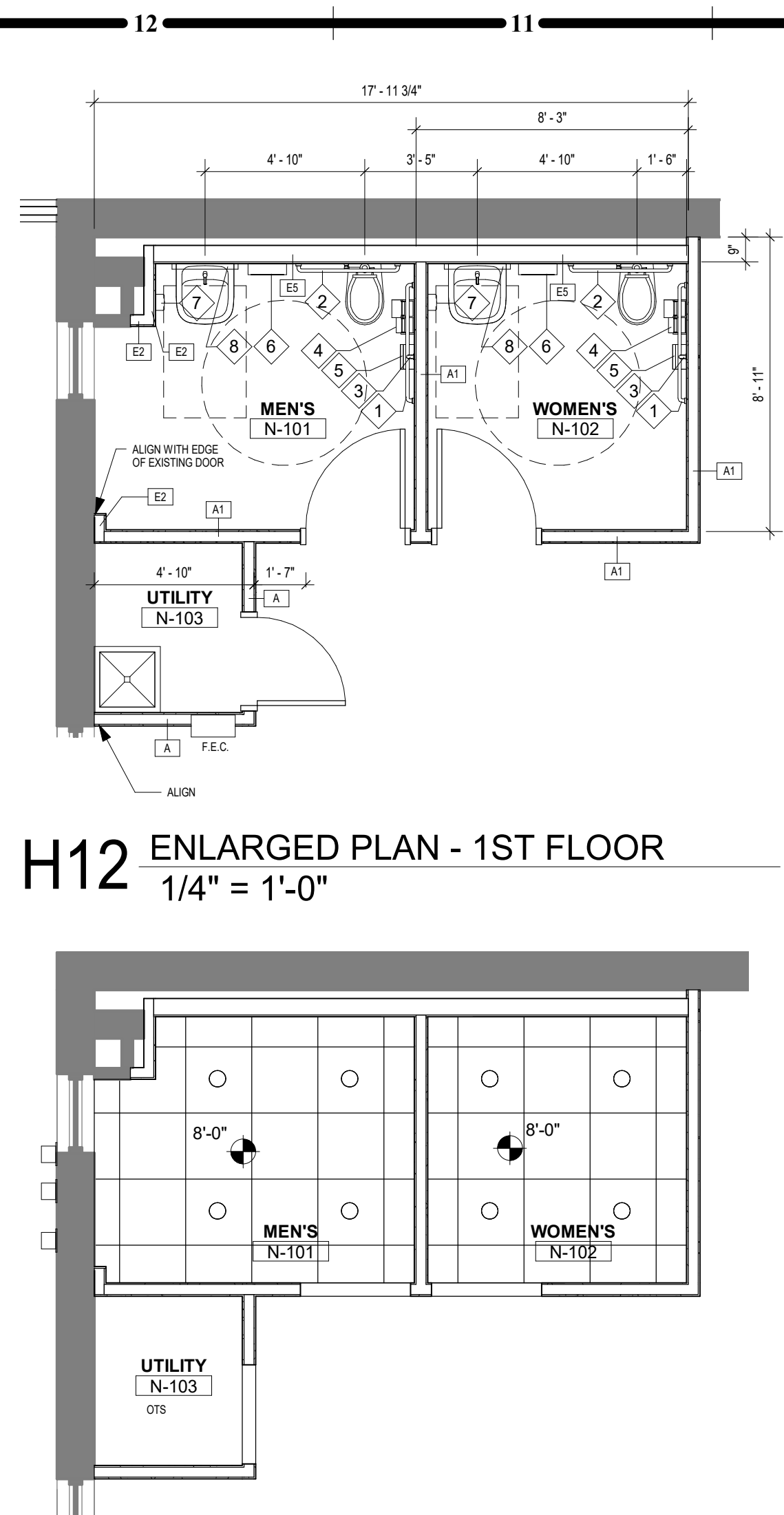


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ISSUE DATE: APRIL 21, 2022
COLLINS WEBB #: 21121

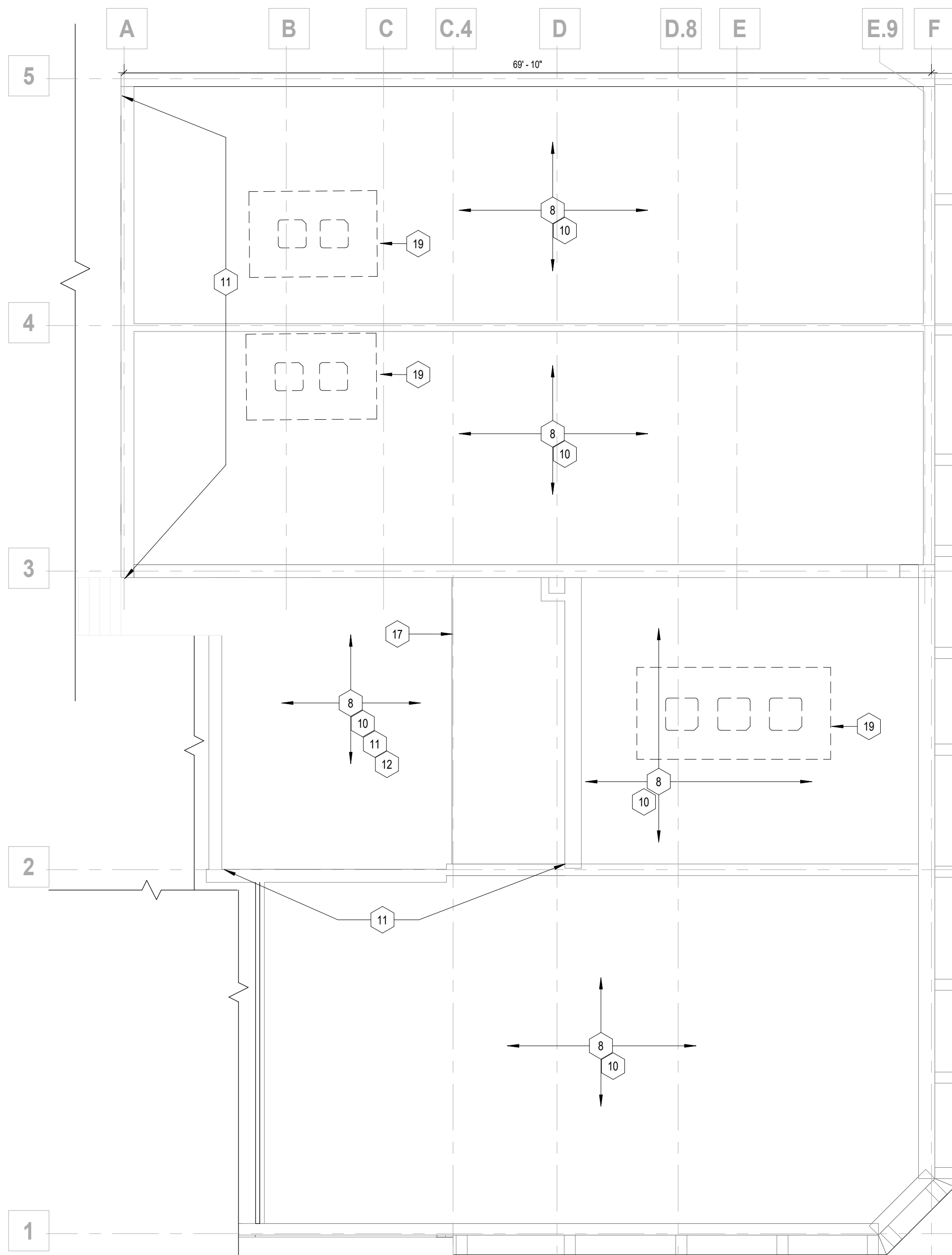
STRUCTURAL PLANS AND
SECTIONS

PERMIT SET

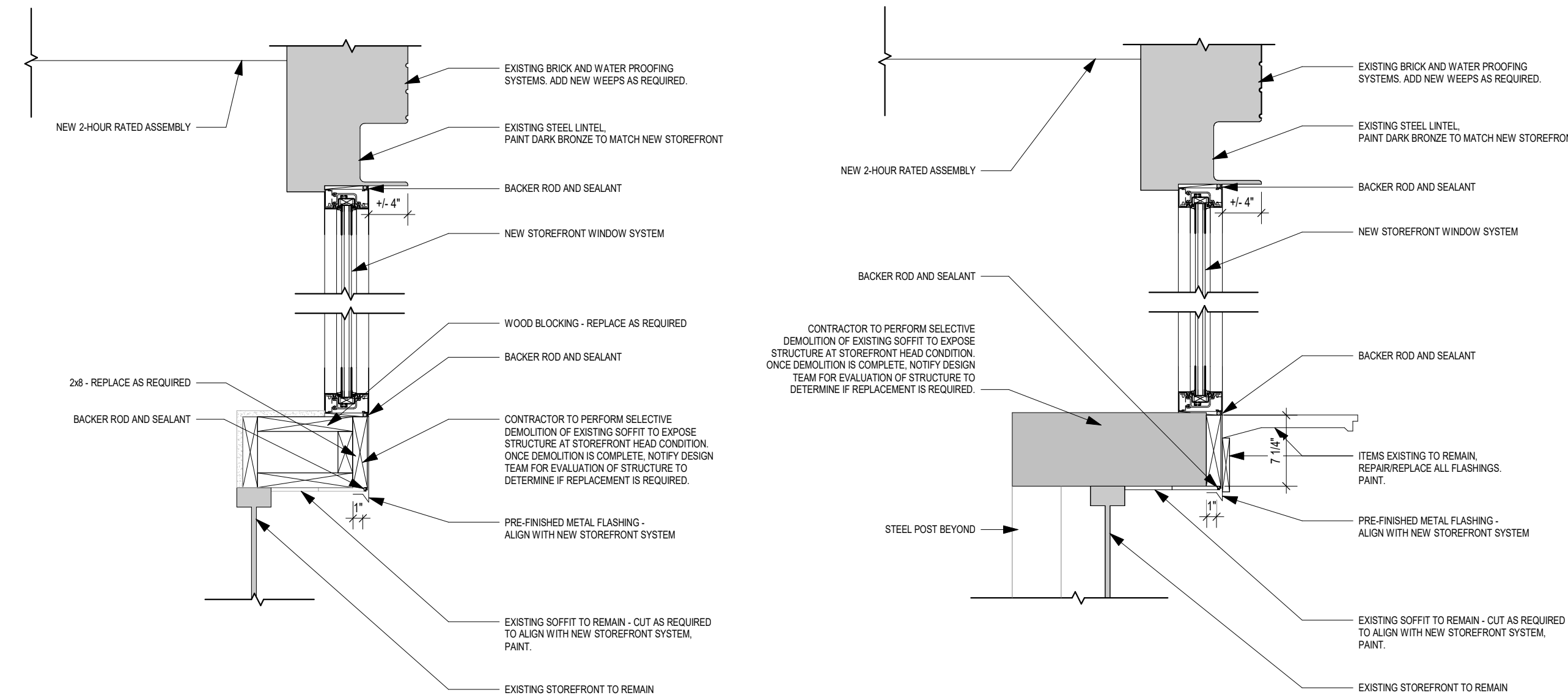
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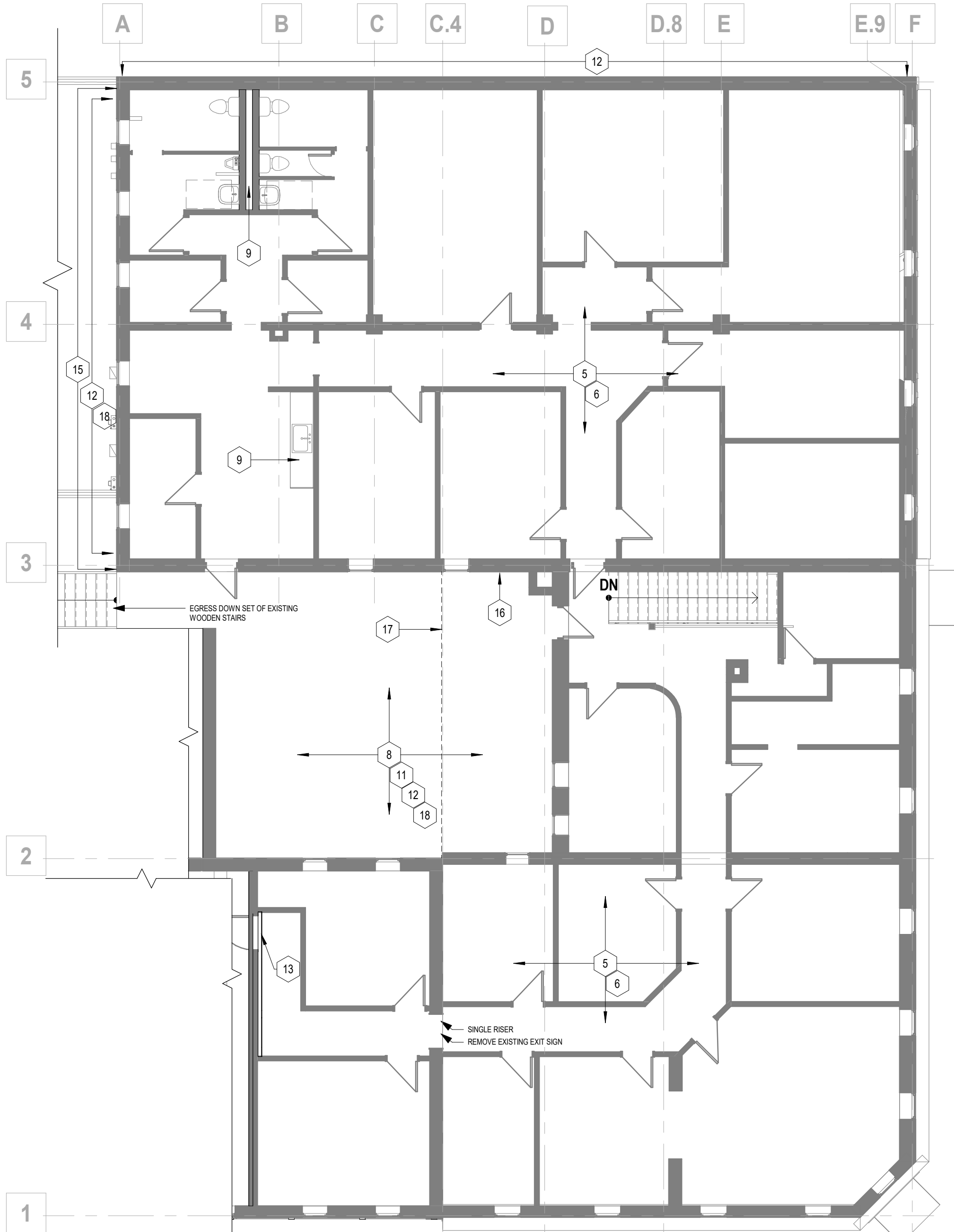
F12 RCP - 1ST FLOOR
1/4" = 1'-0"



A12 ROOF PLAN
1/8" = 1'-0"



F10 SOUTH
1" = 1'-0"



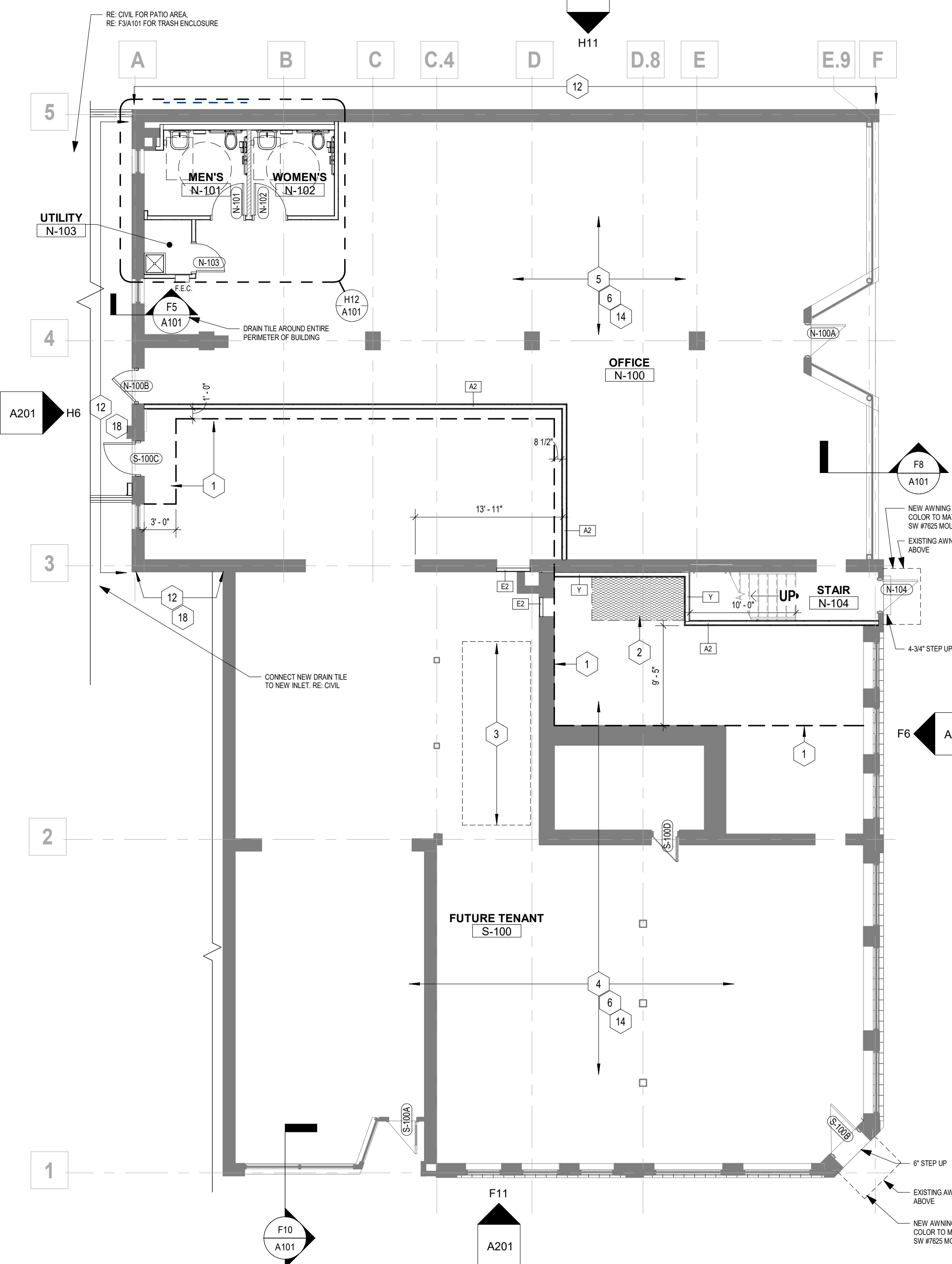
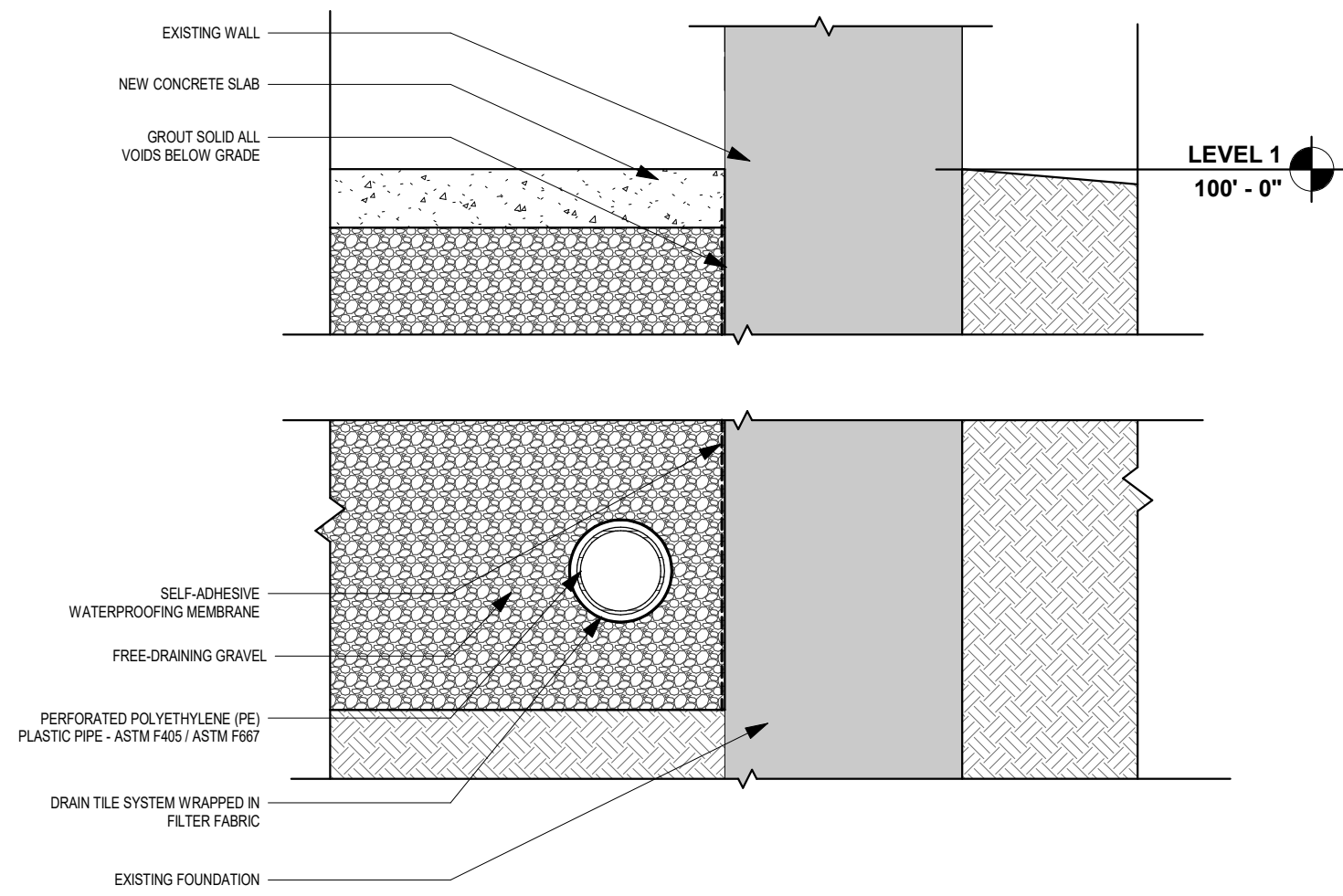
A8 2ND FLOOR PLAN
1/8" = 1'-0"

ACCESSORY SCHEDULE						
TYPE MARK	MANUFACTURER	DESCRIPTION	MODEL	WxHxD	FINISH	COMMENTS
1	BOBRICK WASHROOM EQUIPMENT, INC.	GRAB BAR, 1-1/4" DIA., SS, 42"	B-5806-42	1-1/4" DIA x 42"	SATIN W/ PEENED GRIP	1
2	BOBRICK WASHROOM EQUIPMENT, INC.	GRAB BAR, 1-1/4" DIA., SS, 36"	B-5806-36	1-1/4" DIA x 36"	SATIN W/ PEENED GRIP	1
3	BOBRICK WASHROOM EQUIPMENT, INC.	VERTICAL GRAB BAR, 1-1/4" DIA., SS, 18"	B-5806-18	1-1/4" DIA x 18"	SATIN W/ PEENED GRIP	1
4	BOBRICK WASHROOM EQUIPMENT, INC.	CLASSIC SERIES MULTI-ROLL TOILET TISSUE DISPENSER	B-2888		SATIN	1
5	BOBRICK WASHROOM EQUIPMENT, INC.	TRIMLINE SERIES SANITARY NAPKIN DISPOSAL	B-35139		SATIN	1
6	BOBRICK WASHROOM EQUIPMENT, INC.	CONTURA SERIES PAPER TOWEL DISPENSER/WASTE RECEPTACLE	B-43349		SATIN	1
7	BOBRICK WASHROOM EQUIPMENT, INC.	AUTOMATIC SOAP DISPENSER	B-2013	4 1/4" x 10 17/32" x 4 7/32" 2" W x 4" H	SATIN	1
8	MIRROR - COORD. W/ OWNER					2

GENERAL NOTES:
A. ALL TOILET ACCESSORIES LOCATIONS BASED ON PLAN LAYOUT.
B. REFER TO GOOZ AND MANUFACTURERS SPECIFICATIONS FOR MOUNTING HEIGHTS.
C. COORDINATE ALL MOUNTING HEIGHTS W/ PLUMBING FIXTURES TO ALLOW PROPER OPERATION & INFORM ARCHITECT IN WRITING OF ANY CONFLICTS.
D. FOR ANY ITEM NOTED AS FF&E, G.C. TO COORDINATE DIRECTLY W/ OWNER FOR PREFERRED MOUNTING HEIGHTS, U.N.O.

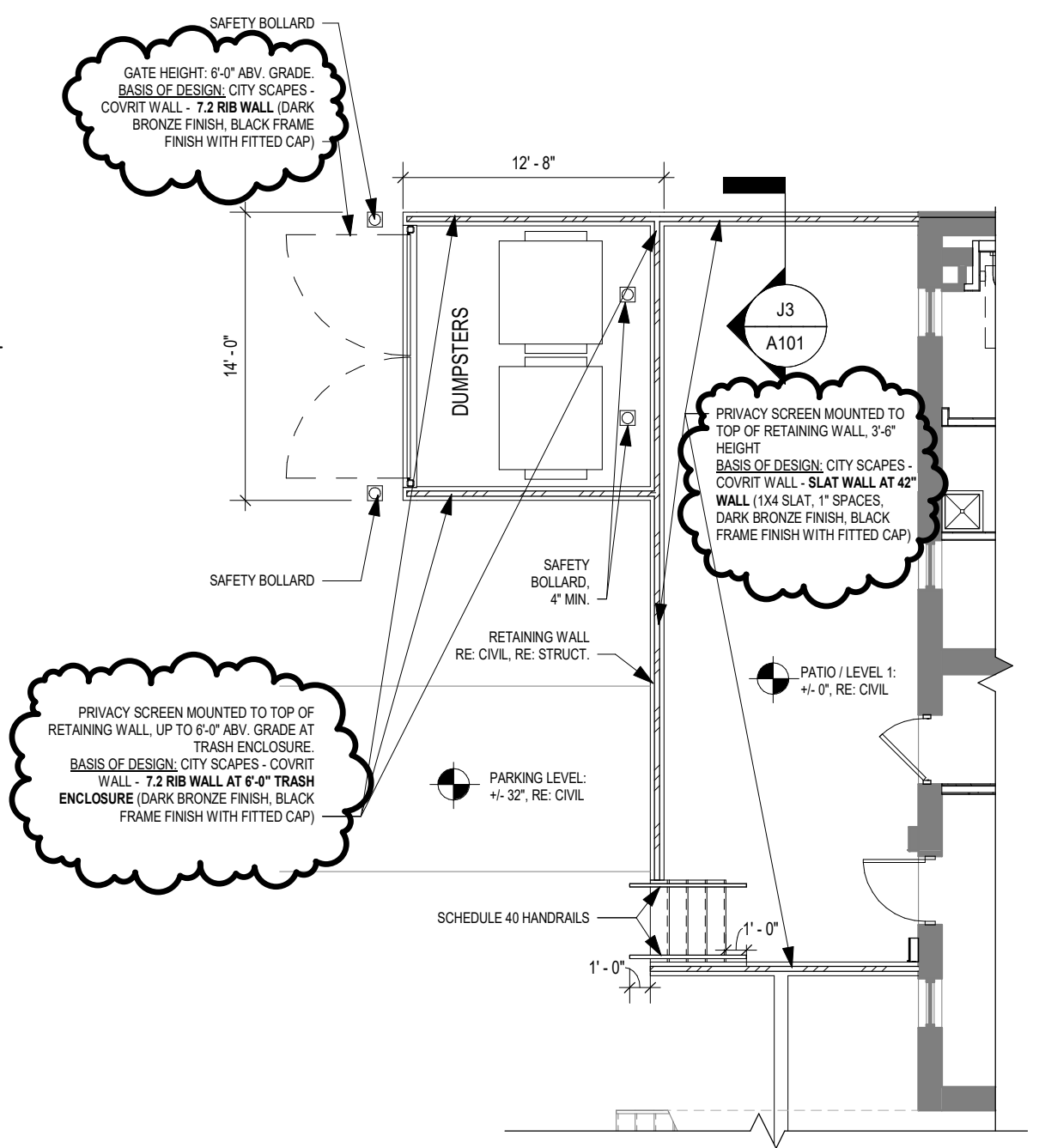
REMARKS:
1. SURFACE-MOUNTED.
2. MIRRORS TO BE CENTERED AT SINKS, TYP.

F5 SECTION DETAIL - DRAIN TILE SYSTEM
1" = 1'-0"



A4 1ST FLOOR PLAN
1/8" = 1'-0"

J3 PRIVACY SCREEN ATTACHMENT
1" = 1'-0"



F3 ENLARGED PLAN - TRASH ENCLOSURE
1/8" = 1'-0"

GENERAL NOTES: FLOOR PLANS

1. RE. GENERAL ARCHITECTURAL SHEETS FOR ADDITIONAL NOTES AND DETAILS THAT ARE APPLICABLE.
2. ARCHITECTURAL ELEVATION 100'-0".
3. DIMENSIONS SHOWN ON THE FLOOR PLAN ARE TO THE FACE OF GYP. BOARD WALL (F&E), FACE OF MASONRY (F&M), FACE OF CONCRETE WALLS (F&C), AND COLUMN GRID LINES, UNLESS NOTED OR SHOWN OTHERWISE.
4. NOTE: WALL THICKNESSES ARE ACTUAL DIMENSIONS AND PER WALL TYPES. SEE GENERAL SHEETS.
5. DOOR OPENINGS NOT LOCATED BY DIMENSION SHALL BE CENTERED IN WALL SHOWN OR LOCATED 4 INCHES FROM FINISH WALL TO HINGE SIDE OF THE DOOR, ALWAYS ALLOWING A MINIMUM OF 18" FROM FULL SIDE (STRIKE SIDE) OF THE DOOR TO THE INTERSECTING WALL OR OTHER PROTRUDING OBJECTS.
6. ALL ALCOVES WITHOUT A SPACE IDENTIFICATION NUMBER SHALL HAVE THE SAME FINISHES AS THE ADJOINING SPACES.
7. PROVIDE FINISH LEVELS AS DESCRIBED:
LEVEL 4:
- ALL WALLS TO BE BROUGHT UP TO LEVEL 4 FINISH.
- AREAS FOR BACK OF HOUSE EMPLOYEE OPERATIONS WHERE ROOM SIDE WALLS AND/OR CEILINGS HAVE PAINTED SURFACES.
CONCESSION AND CIRCULATION CORRIDORS WHERE ROOM SIDE WALLS AND/OR CEILINGS HAVE PAINTED SURFACES.
8. RE. FINISH LEGEND, FINISH SCHEDULE AND SPECIFICATIONS FOR DOOR AND DOOR FRAME FINISHES.
9. STAIR ENCLOSURES, SHAFT WALLS, EXIT PASSAGEWAYS AND EXTERIOR WALLS TO BE COORDINATED FOR PHASE OF WORK PER MATRIX AND PROJECT SCOPING.
10. MAINTAIN AND PROTECT EXISTING EXPANSION JOINTS DURING CONSTRUCTION. PATCH/REPAIR TO MATCH EXISTING RATINGS AS REQUIRED ON THE SHELL PORTION OF PROJECT.
11. CONSTRUCTION TO BE IN STRICT ACCORDANCE WITH ALL APPLICABLE BUILDING CODES, LOCAL RULES, AND REGULATIONS, AND ALL OTHER CODES, REGULATIONS AND GOVERNING AGENCIES HAVING JURISDICTION WITH ALL APPLICABLE AMENDMENTS UNLESS ALTERED OR CHANGED THROUGH VARIANCES OF OTHER LEGAL PROCEDURES.
12. DRAIN TILE DETAIL: PER IRC 2018, PERFORATED POLYETHYLENE (PE) PLASTIC PIPE, ASTM F441 / ASTM F442, SMOOTH WALL, WRAPPED IN FILTER FABRIC.
13. FLUID APPLIED BARRIER AT FOUNDATION:
BASIS OF DESIGN: W.R. MENDOTA, SEALTIGHT - HYDRASTIC 835 SL #709-A.
SUBMITTAL REQUIRED - SUBMIT TO ARCHITECT.
14. GUARDRAILS - GUARDRAILS SHALL BE DESIGNED TO RESIST A LINEAR LOAD OF 50 POUNDS PER LINEAR FOOT IN ACCORDANCE WITH SECTION 4.5.1.1 OF ASCE 7. GUARDRAILS SHALL BE DESIGNED TO RESIST A CONCENTRATED LOAD OF 200 POUNDS IN ACCORDANCE WITH SECTION 4.5.1.1 OF ASCE 7.

FLOOR PLAN KEYED NOTES

MARK	DESCRIPTION
1	EXTENTS OF NEW CONCRETE SLAB. REFER TO STRUCTURAL FOR ADDITIONAL INFORMATION.
2	UNDERSIDE OF STAIR TO RECEIVE 2-HR RATING ON UNDERSIDE OF STRINGER TO MAINTAIN CONTINUOUS RATING OF FLOOR/CEILING WALL ASSEMBLY. MUST MAINTAIN THE 2-HOUR HORIZONTAL RATING OF THE CEILING PLANE.
3	FUTURE LOCATION OF RESTROOM CORE. REFER TO MEP DOCUMENTS FOR ADDITIONAL INFORMATION.
4	ENTIRE CEILING TO RECEIVE A 2-HOUR RATING TO SEPARATE FROM FLOOR ABOVE. REFER TO UL ASSEMBLY #L511 (G506).
5	CEILING TO REMAIN. PATCH REPAIR AS REQUIRED.
6	ALL PLASTER OR GYPSUM BOARD WALLS TO BE PREPARED TO A LEVEL 4 FINISH.
7	REMOVE WINDOW AND PREPARE OPENING FOR NEW EGRESS DOOR. REFER TO STRUCTURAL FOR ADDITIONAL INFORMATION.
8	ANY ROOF MODIFICATIONS TO BE COMPLETED BY JR & CO. COORDINATE WITH BUILDING OWNER. ALL DEBRIS TO BE REMOVED AND ROOFING SYSTEM TO HAVE POSITIVE SLOPE AWAY FROM BUILDING TO GUTTER SYSTEM. ENTIRE ROOF TO BE REVIEWED FOR REPAIRS. PROVIDE COMPLETE ANALYSIS TO OWNER FOR REVIEW.
9	RECONNECT SANITARY AND WATER AS REQUIRED FOR FUNCTIONAL PLUMBING. REFER TO MEP DOCUMENTS FOR ADDITIONAL INFORMATION.
10	REMOVE ALL DEBRIS FROM EXISTING ROOF. REPAIR ROOF TO ELIMINATE ANY PONDING AND PROVIDE POSITIVE DRAINAGE.
11	REPAIR ALL GUTTER SYSTEMS AND CONFIRM TO BE IN GOOD WORKING ORDER AND FREE OF DEBRIS. CONFIRM ALL SEAMS ARE WATERTIGHT AND ALL FLASHINGS TO AND AROUND GUTTER SYSTEM ARE IN GOOD WORKING ORDER. ALL GUTTERS AND DOWNSPOUTS TO BE SECURE TO THE BUILDING AND HAVE POSITIVE SLOPE FOR PROPER DRAINAGE.
12	PATCH/REPAIR STUCCO SYSTEM AND MAKE READY FOR NEW EXTERIOR PAINT.
13	INFILL EXISTING OPENING. PATCH/REPAIR AS REQUIRED. PAINT TO MATCH ADJACENT FINISH.
14	DRAIN TILE - PROVIDE 6" PERFORATED, SLEEVED DRAIN TILE AROUND ENTIRE PERIMETER AND ALONG ALL FOUNDATION WALLS. COLLECT AND CONNECT INTO STORM SEWER. REFER TO CIVIL FOR ADDITIONAL INFORMATION.
15	INFILL OPEN STUD CAVITY WITH SIMILAR MATERIALS. PROVIDE SCRATCH AND FINISH COATS TO MATCH EXISTING. PREPARE FOR NEW PAINT FINISH.
16	INFILL OPENING IN MASONRY. MATCH EXISTING.
17	EXISTING OVERHANG TO REMAIN. PAINT SOFFIT SW 7007 CEILING BRIGHT WHITE.
18	STUCCO TO MATCH PRIMARY PAINT COLOR.
19	NEW RTU CURBS AND OPENINGS. COORDINATE EXACT LOCATIONS WITH MEP/STRUCTURAL DOCUMENTS.

FLOOR PLANS, ENLARGED PLANS, AND DETAILS



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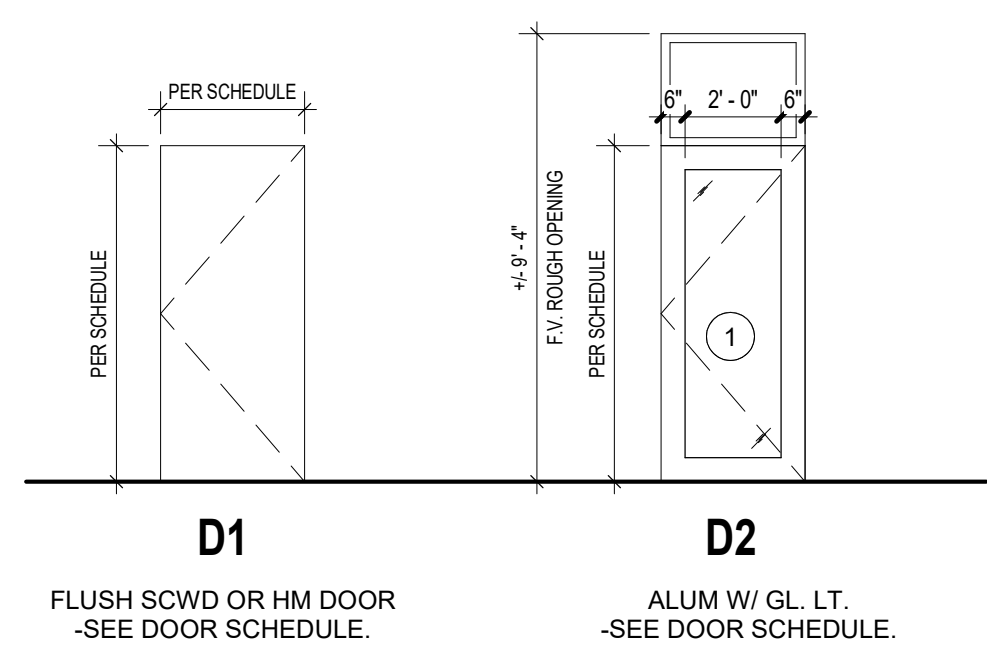
A101
ISSUE DATE: 21 APRIL, 2022
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PERMIT DOCUMENTS

H11 NORTH ELEVATION
1/8" = 1'-0"



F11 SOUTH ELEVATION
1/8" = 1'-0"



GLASS TYPE LEGEND	
DESIGNATION NUMBER	DESCRIPTION
1	TEMPERED GLASS COLOR: CLEAR

NOTE:
1. DOORS TO BE 1 3/4" THICK, UNLESS NOTED OTHERWISE ON DOOR SCHEDULE.

DOOR SCHEDULE										
DOOR #	WIDTH	HEIGHT	ROOM NAME	DOOR			FRAME		RTG	REMARKS
				TYPE	MATERIAL	FINISH	MATERIAL	FINISH		
N-100A	EXIST	EXIST	OFFICE	EXIST	EXIST	PAINT	EXIST	PAINT	N/A	1, 2, 3
N-100B	3'-0"	7'-0"	OFFICE	D2	ALUM/GLASS	ANODIZED	ALUM	ANODIZED	N/A	1, 3, 4, 5, 6, 7
N-101	3'-0"	7'-0"	MEN'S	D1	SCWD	PAINT	HM	PAINT	N/A	1, 3, 4, 6
N-102	3'-0"	7'-0"	WOMEN'S	D1	SCWD	PAINT	HM	PAINT	N/A	1, 3, 4, 6
N-103	2'-8"	7'-0"	UTILITY	D1	SCWD	PAINT	HM	PAINT	N/A	3, 4
N-104	EXIST	EXIST	STAIR	EXIST	EXIST	PAINT	EXIST	PAINT	N/A	1, 2, 3
S-100A	EXIST	EXIST	FUTURE TENANT	EXIST	EXIST	PAINT	EXIST	PAINT	N/A	1, 2, 3
S-100B	EXIST	EXIST	FUTURE TENANT	EXIST	EXIST	PAINT	EXIST	PAINT	N/A	1, 2, 3
S-100C	3'-0"	7'-0"	FUTURE TENANT	D1	HM	PAINT	HM	PAINT	N/A	1, 3, 4, 6
S-100D	EXIST	EXIST	FUTURE TENANT	EXIST	EXIST	EXIST	EXIST	EXIST	N/A	2, 3

DOOR SCHEDULE REMARKS:
1. MATCH EXISTING MASTER KEYING SYSTEM. COORDINATE WITH BUILDING OWNER.
2. MAINTAIN EXISTING HARDWARE.
3. PROTECT DOOR AND FRAME FROM DAMAGE THROUGHOUT CONSTRUCTION. ANY DAMAGE TO BE REPAIRED/REPLACED PER OWNER DISCRETION.
4. DOOR FRAME 2" OFF FINISHED FACE ON HINGE SIDE, U.N.O.
5. PROVIDE PANIC HARDWARE.
6. MANUALLY LOCKABLE FROM INSIDE OF ROOM. MASTER KEY LOCK ON OUTSIDE OF ROOM.
7. COORDINATE HARDWARE WITH MANUFACTURER.

A8 EAST ELEVATION - COLOR
3/16" = 1'-0"



H6 WEST ELEVATION
1/8" = 1'-0"



F6 EAST ELEVATION
1/8" = 1'-0"



C6 SOUTH ELEVATION - COLOR
3/16" = 1'-0"



GENERAL NOTES EXTERIOR ELEVATIONS:

- RE: SHEET G0.01 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
- DIMENSIONS SHOWN ON THE EXTERIOR ELEVATIONS ARE TO THE FACE OF MTL. STUD WALL, FACE OF MASONRY (FOM), FACE OF CONCRETE WALLS (FCO), AND COLUMN GRID LINES, UNLESS OTHERWISE NOTED OR INDICATED.
- RE: THE WINDOW TYPES SHEET FOR ALL EXTERIOR WINDOW TYPES AND GLASS TYPES.
- BRICK REPAIR** - REFER TO SPECIFICATIONS FOR BRICK REPAIR. ALL MASONRY CONTRACTOR TO REVIEW ALL ELEVATIONS FOR REPAIR/REPLACEMENT AS REQUIRED.
- JOINT SEALANTS** - REFER TO SPECIFICATIONS FOR JOINT SEALANT REPAIR. REMOVE/REPLACE REPAIR ALL JOINT SEALANTS ON THE BUILDING. PROVIDE 1/2" BACK ROD BEHIND SEALANTS BETWEEN ALL DISSIMILAR MATERIALS. COLOR TO MATCH ADJACENT MATERIALS.
- CONTRACTOR SHALL FOLLOW STUCCO REPAIR AS OUTLINED WITHIN STO RESTORATION DETAIL SERIES. DETAIL MANUAL, IF CONTRACTOR USES ALTERNATE OR SUBSTITUTED MANUFACTURER, A SUBMITTAL SHALL BE PROVIDED CONTAINING SIMILAR DETAIL INFORMATION FOR ARCHITECT'S APPROVAL.
- EXTERIOR BRICK, STEEL, AND WOOD PAINT** - BASIS OF DESIGN: SHERWIN WILLIAMS - PRO INDUSTRIAL - PRE-CATALYZED WATERBASED URETHANE B65-1100 SERIES.
NOTE FOR CONTRACTOR TO FOLLOW MANUFACTURER RECOMMENDATIONS AND PDS: PRODUCT DATA SHEET. PRIOR TO THE EXTERIOR URETHANE COATING APPLICATION ON BRICK, APPLY CONCRETE AND MASONRY PRIMER-SEALER (BASIS OF DESIGN: LOXON) PRODUCT AND COATS AS RECOMMENDED BY MANUFACTURER.

EXTERIOR ELEVATION KEYED NOTES

- | MARK | DESCRIPTION |
|------|--|
| 1 | STOREFRONT SYSTEM - BASIS OF DESIGN IS KAWNEER 450T FRAMING SYSTEM. GLAZING TO BE FRONT GLAZED. |
| 2 | REPLACE ALL SILL FLASHINGS. COLOR TO BE DARK BRONZE TO MATCH EXISTING. |
| 3 | BRICK - REPLACE ALL MISSING BRICK AND DAMAGED BRICK. COLOR TO MATCH EXISTING. TUCK POINT AS REQUIRED. PROVIDE BACKER ROD & SEALANT BETWEEN DISSIMILAR MATERIALS, TYP. RE: SPECIFICATIONS. |
| 4 | WOOD WINDOWS - REMOVE ALL LOOSE PAINT. PATCH/REPAIR/CAULK AS REQUIRED. PREPARE FOR NEW PAINT. |
| 5 | CAST STONE - TO BE RE-SET AND LEVELED. RE-GROUT AS REQUIRED. |
| 6 | GLAZED TILE - CLEAN AND TUCK-POINT. |
| 7 | WOOD DOOR - SAND AND REPAINT ENTRY DOOR AND FRAME. COLOR DARK BRONZE TO MATCH NEW WINDOW SYSTEM. |
| 8 | STEEL LINTEL - REMOVE ALL LOOSE MATERIAL AND REPAINT. |
| 9 | ALUMINUM WINDOWS / WINDOW HEAD DETAIL - ALUMINUM WINDOWS AT SECOND LEVEL EXISTING TO REMAIN. REMOVE ALL LOOSE MATERIAL. REPAIR CAST STONE HEADER AS REQUIRED AND REPAINT. |
| 10 | TOP OF WALL DETAIL - REMOVE ALL LOOSE MATERIAL AND REPAINT. REPAIR AS REQUIRED AND REFLASH TOP OF WALL AS NEEDED TO MAKE A WATER TIGHT SYSTEM. PREPARE FOR NEW FINISH. |
| 11 | REMOVE EXISTING WEATHERHOOD ABOVE EXTERIOR DOOR. 14"x14" OF EXISTING OPENING ABOVE DOOR TO REMAIN FOR NEW INTAKE LOUVER. INFILL REMAINDER OF EXISTING OPENING WITH SUB-FRAMING, SHEATHING, AND FINISH MATERIAL TO MATCH EXISTING. RE: MEP. REPLACE EXISTING DOOR WITH NEW HOLLOW METAL DOOR. |
| 12 | EXISTING AWNINGS - RE-ATTACH EXISTING AWNINGS TO BUILDING. NEW FABRIC ON AWNINGS TO MATCH SW #7625 MOUNT ETNA. |
| 13 | INSTALL NEW TEMPERED GLAZING AS REQUIRED. |
| 14 | REPLACE WOOD TRIM AT PERIMETER OF WINDOW WITH EXTERIOR/PAINT-GRADE LUMBER. MATCH EXISTING LUMBER SIZES. PAINT. |
| 15 | EXHAUST WALL CAPS. RE: MECH. PAINT TO MATCH WALL. |
| 16 | LOUVERS. RE: MECH. PAINT TO MATCH WALL. |
| 17 | ELEC. METER. RE: ELEC. |
| 18 | WALL PACK. RE: ELEC. |

EXTERIOR ELEVATION COLOR LEGEND

- | | |
|--|---|
| | PRIMARY COLOR:
SW #7594 CARRIAGE DOOR |
| | ACCENT COLOR 1:
SW #7625 MOUNT ETNA |
| | ACCENT COLOR 2:
SW #7675 SEALSKIN |
| | ACCENT COLOR 3:
SW #0009 EASTLAKE GOLD |
| | EXISTING GLAZED TILE TO REMAIN. RE: KEYNOTE #6 |

EXTERIOR ELEVATIONS AND DOOR SCHEDULE

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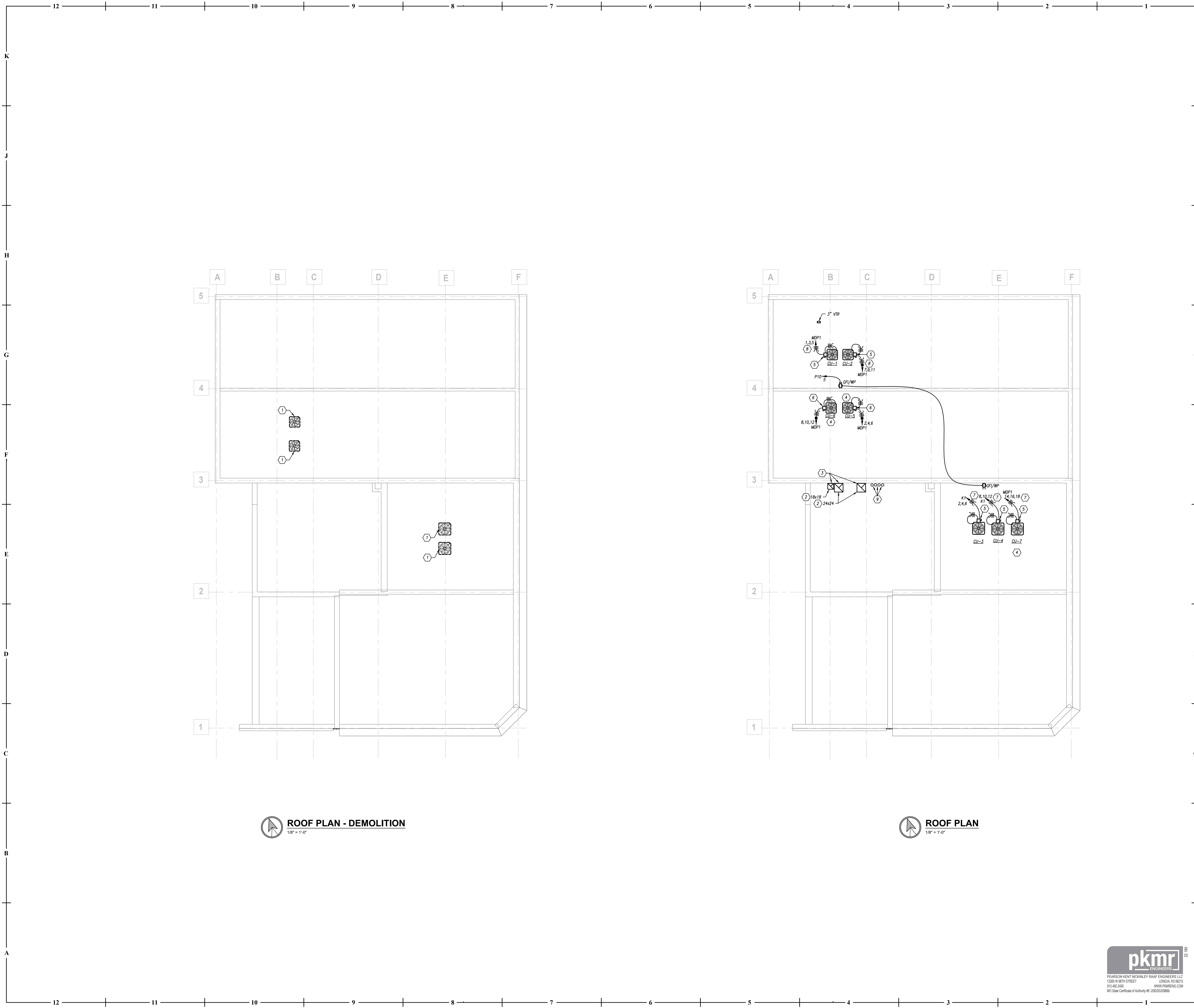


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A201
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PERMIT DOCUMENTS



GENERAL ROOF PLAN

NOTES

1. REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.
2. MAINTAIN CODE-REQUIRED DISTANCES FOR ALL VENTS, EXHAUSTS, ETC. FROM MECHANICAL EQUIPMENT OUTSIDE AIR INTAKES.
3. ALL ELECTRICAL EQUIPMENT AND DEVICES SHALL BE MOUNTED A MINIMUM OF 36" ABOVE THE ROOF ON SUITABLE STEEL SUPPORTS UNLESS OTHERWISE NOTED.

ROOF PLAN KEYED NOTES

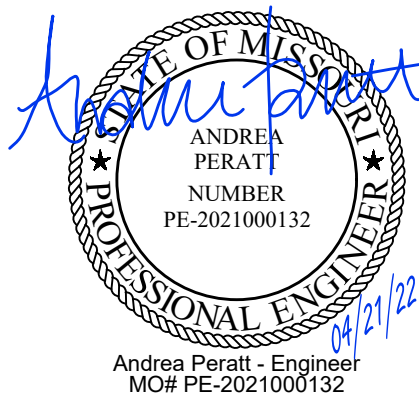
1. CONTRACTOR TO FIELD VERIFY LOCATION AND REMOVE EXISTING CONDENSING UNITS. REUSE EXISTING LOCATIONS. REFRIGERANT PIPE PENETRATIONS AND ACCESSORIES OF CONDENSING UNITS SERVING SECOND FLOOR. REFER TO NEW WORK PLAN.
2. DISHWASHER, GREASE AND MAKE-UP AIR DUCT FROM/ TO FIRST FLOOR TO/ FROM 2ND FLOOR ROOF.
3. CAP DUCTWORK ON ROOF FOR FUTURE USE.
4. CONDENSING UNIT SERVING 2ND FLOOR TO BE INSTALLED IN EXISTING LOCATION.
5. 60AMP, 3-POLE, NON-FUSED HEAVY-DUTY DISCONNECT SWITCH IN NEMA 3R ENCLOSURE.
6. 30AMP, 3-POLE, NON-FUSED HEAVY DUTY DISCONNECT SWITCH IN NEMA 3R ENCLOSURE.
7. (3) #6 WIRE AND (1) #10 GROUND IN 3/4" CONDUIT.
8. (3) #8 WIRE AND (1) #10 GROUND IN 3/4" CONDUIT.
9. CONDUIT PENETRATIONS FOR FUTURE MECHANICAL EQUIPMENT. REFER TO SHEET E111 FOR ADDITIONAL INFORMATION.

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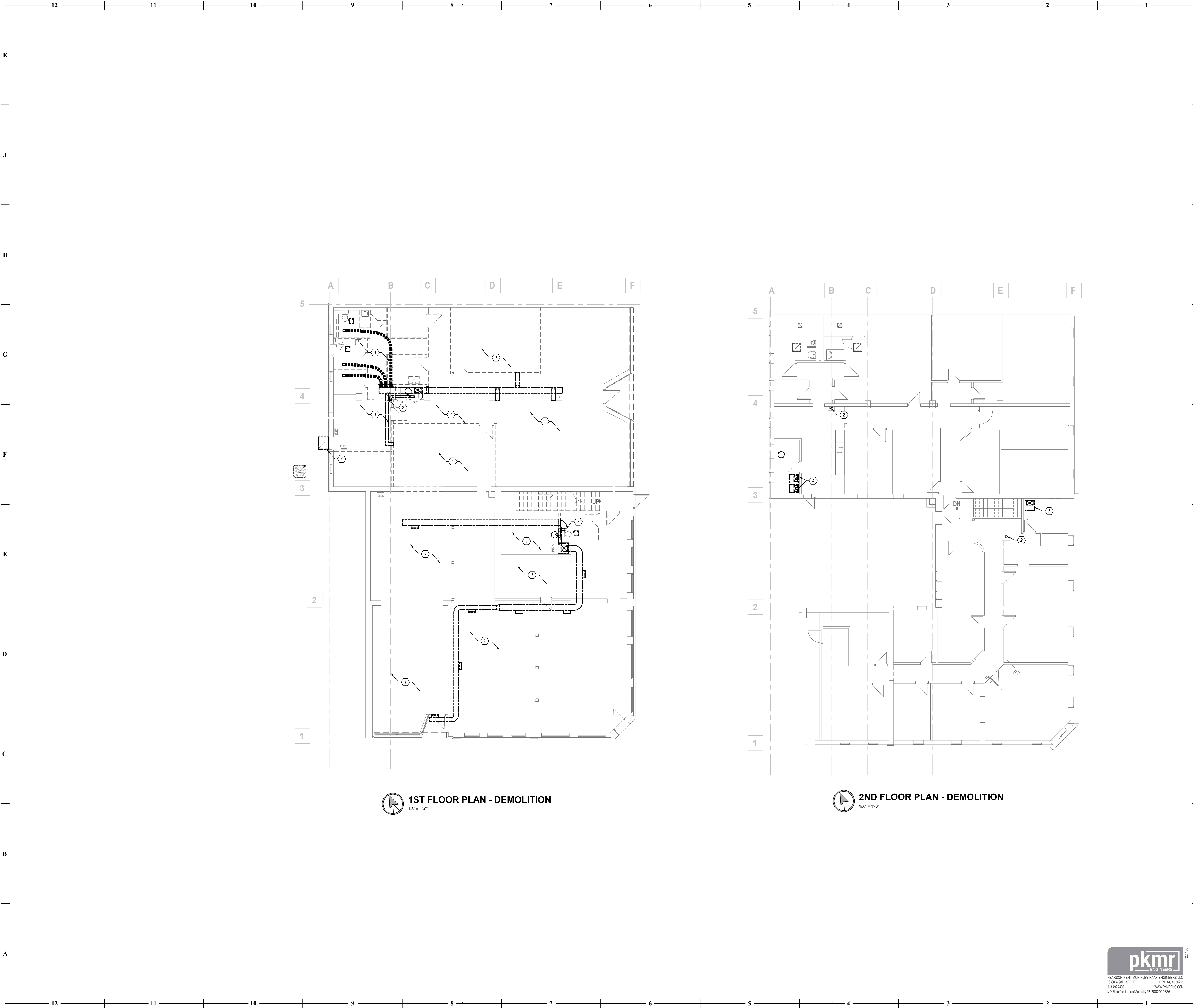
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MEP101

ISSUE DATE: APRIL 21, 2022
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ROOF PLAN





GENERAL DEMOLITION NOTES

1. REFER TO GENERAL DEMOLITION NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.

DEMOLITION PLAN KEYED NOTES

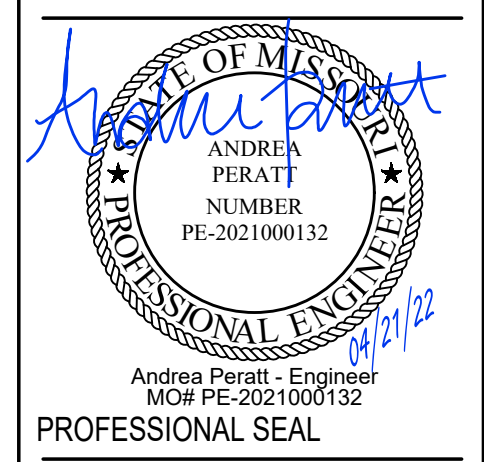
- 1. REMOVE ALL DUCTWORK, DIFFUSERS AND EQUIPMENT IN THIS AREA. PATCH/ REPAIR WALL/ CEILING IF REQUIRED. REFER TO NEW WORK PLAN.
- 2. REMOVE VERTICAL FLUE DUCT GOING THROUGH SECOND FLOOR TO ROOF. REFER TO NEW WORK PLAN.
- 3. REMOVE EXISTING FURNACE. KEEP ALL DUCTWORK, FLUE AND ACCESSORIES. CLEAN RETURN PLENUM, GRILLE AND PROVIDE NEW FILTERS. PREPARE DUCTWORK FOR NEW FURNACE INSTALLATION. REFER TO NEW WORK PLAN.
- 4. REMOVE EXISTING WEATHER HOOD AND INTAKE OPENING. PATCH AND REPAIR OPENING WITH CONSTRUCTION MATERIALS TO MATCH EXISTING CONDITIONS. REFER TO ARCHITECT.

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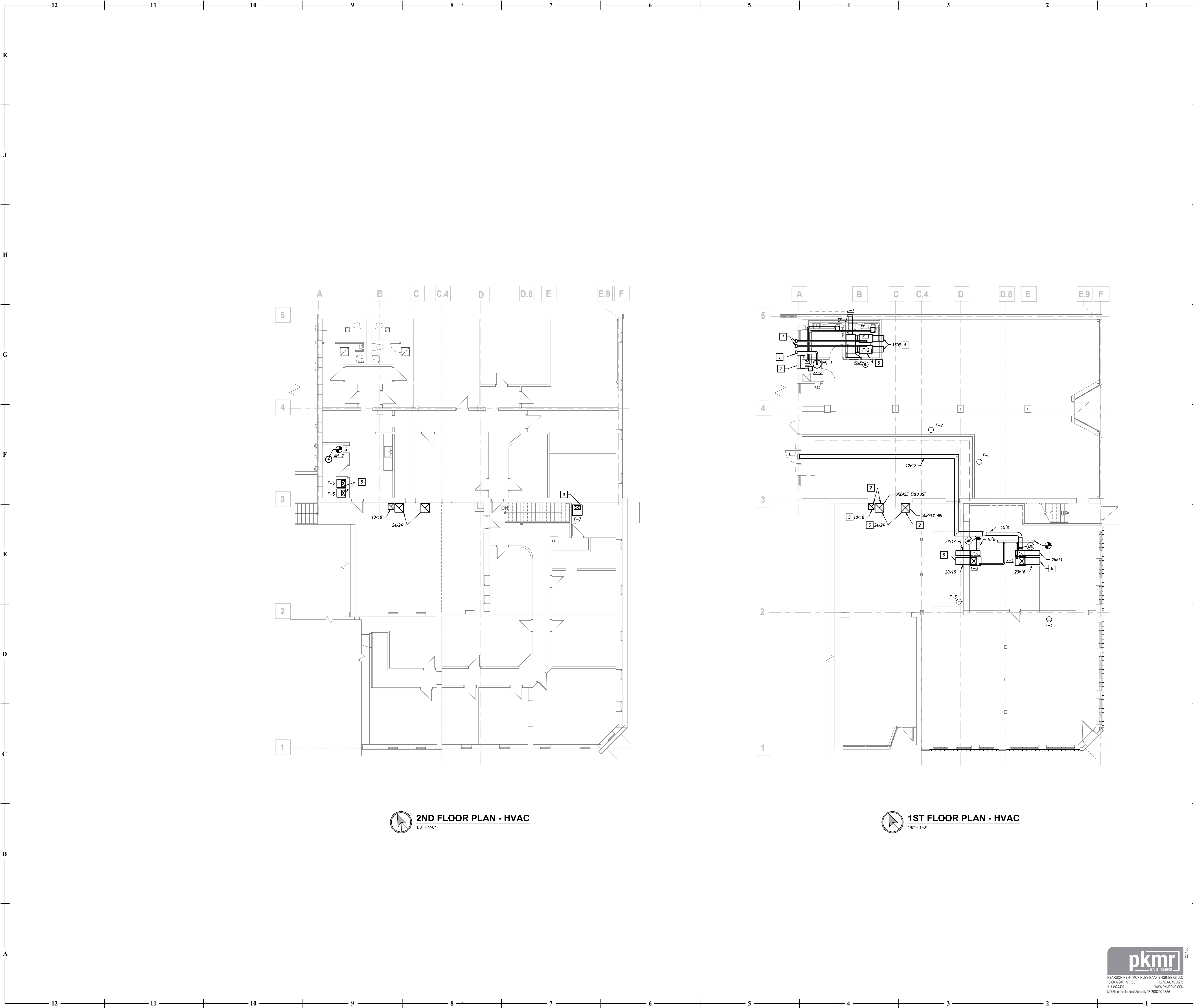
M011
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DEMOLITION - FLOOR PLANS



Permit Set



GENERAL HVAC NOTES

1. REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.
2. ROUND BRANCH DUCT RUNOUTS AND FLEXIBLE DUCT SHALL BE THE SAME SIZE AS THE DIFFUSER NECK UNLESS NOTED OTHERWISE.
3. MAXIMUM FLEXIBLE DUCT LENGTH SHALL BE 5'-0".
4. ALL RUNOUTS TO TERMINAL BOXES SHALL BE ONE SIZE LARGER THAN BOX INLETS UNLESS NOTED OTHERWISE.
5. ALL AIR DISTRIBUTION DEVICES SHALL HAVE LOCKABLE VOLUME CONTROL DEVICES.
6. ALL 90 DEGREE TURNING ELBOWS SHALL BE SMOOTH ROUND OR SQUARE WITH TURNING VANES.
7. DUCT SIZES SHOWN ON PLANS ARE INSIDE FREE AREA.
8. PROVIDE ACCESS DOORS IN DUCTS AHEAD OF ALL AUTOMATIC FIRE AND SMOKE DAMPERS.
9. FOR BALANCING THE OUTSIDE AIRFLOW QUANTITIES, REFER TO HVAC SCHEDULES.

HVAC PLAN KEYED NOTES

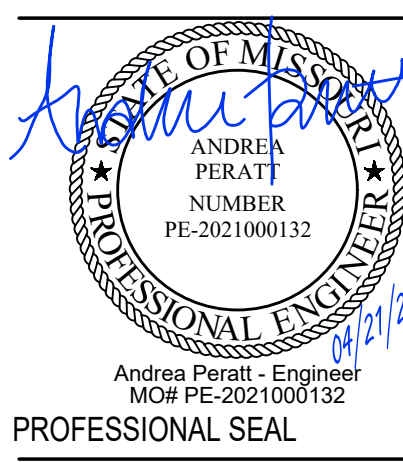
1. TERMINATE 4" FLUE/VENT WITH PRINTABLE WALL CAP. REFER TO DETAIL.
2. DISHWASHER, GREASE AND MAKE-UP AIR DUCT CAPPED IN SPACE FOR FUTURE USE.
3. DISHWASHER AND GREASE DUCT FROM FIRST FLOOR TO 2ND FLOOR ROOF. DUCT TO BE ROUTED ON EXTERIOR WALL AND CAPPED OVER 2ND FLOOR ROOF. REFER TO ROOF PLAN.
4. CAP SPIRAL DUCTWORK IN SPACE. ROUTE DUCTWORK RIGHT TO STRUCTURE.
5. FURNACES TO BE INSTALLED ABOVE TOILET. REFER TO DETAIL FOR INSTALLATION.
6. SUPPLY AND RETURN AIR DUCTWORK ROUTED THROUGH STRUCTURAL WALL. BOTTOM OF DUCT TO BE ROUTED AT 10'-0" A.F.F. COORDINATE PENETRATIONS WITH STRUCTURE.
7. ROUTE GENERAL EXHAUST TO PLENUM ON BACKSIDE OF EXISTING LOUVER. PLENUM TO MATCH EXISTING SIZE OF LOUVER. REFER TO DETAIL.
8. REPLACE EXISTING FURNACES, CONNECT TO EXISTING DUCTWORK, FLUES, ELECTRICAL AND CONDENSATE.
9. REPLACE EXISTING WATER HEATER TO CONNECT INTO EXISTING FLUES.

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MECHANICAL - FLOOR PLANS

Permit Set



EXHAUST FAN SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	TYPE	SERVICE	CFM	E.S.P. (IN)	BHP	HP	DRIVE	SONES	RPM	ELECTRICAL	CONTROL	REMARKS
EF-1	COOK	GC-146	CEILING CABINET	BATHROOM	90	0.250	----	36W	DIRECT	1.3	900	120V / 1PH	SWITCH	ALL
EF-2	COOK	GC-146	CEILING CABINET	BATHROOM	90	0.250	----	36W	DIRECT	1.3	900	120V / 1PH	SWITCH	ALL
EF-3	COOK	GC-146	CEILING CABINET	BATHROOM	90	0.250	----	36W	DIRECT	1.3	900	120V / 1PH	SWITCH	ALL

REMARKS:

- UNIT SHALL BE PROVIDED WITH SOLID STATE SPEED CONTROL MOUNTED AT FAN.
- PROVIDE WITH STARTER AND WIRE TO START SWITCH.

FURNACE SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	CFM	O.A. CFM	FAN DATA		HEATING			ELECTRICAL				REMARKS
					E.S.P. (IN)	HP	CAPACITY (MBH)	INPUT (MBH)	OUTPUT (MBH)	EFF.	VOLTS / PH	M.C.A.	M.O.C.P.	
F-1	LENNOX	SL297UH090V48B	1,400	210	0.5"	1/2	45.0	110.0	106.7	97.0%	120V / 1PH	12.0	20	2
F-2	LENNOX	SL297UH090V48B	1,400	210	0.5"	1/2	45.0	110.0	106.7	97.0%	120V / 1PH	12.0	20	2
F-3	LENNOX	SL280UH135V60D	1,990	299	0.5"	1	60.0	165.0	132.0	80.0%	120V / 1PH	12.0	20	1
F-4	LENNOX	SL280UH135V60D	1,990	299	0.5"	1	60.0	165.0	132.0	80.0%	120V / 1PH	12.0	20	1
F-5	LENNOX	SL280UH090V36B	1,200	180	0.5"	1/2	36.0	110.0	88.0	80.0%	120V / 1PH	12	15	1
F-6	LENNOX	SL280UH090V36B	1,200	180	0.5"	1/2	36.0	110.0	88.0	80.0%	120V / 1PH	12	15	1
F-7	LENNOX	SL280UH135V60D	1,990	299	0.5"	1	60.0	165.0	132.0	80.0%	120V / 1PH	12	20	1

REMARKS:

- STANDARD EFFICIENCY FURNACE.
- HIGH EFFICIENCY FURNACE. PROVIDE WITH MANUFACTURER'S VERTICAL DISCHARGE KIT. REFER TO DETAIL.

CONDENSING UNIT SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	CAPACITY (MBH)	MINIMUM SEER	AMBIENT TEMP. (°F)	ELECTRICAL			REMARKS
						VOLTS / PH	M.C.A.	M.O.C.P.	
CU-1	LENNOX	16ACX-048-230	45.0	15.0	105°	208V / 3PH	29.0	40	ALL
CU-2	LENNOX	16ACX-048-230	45.0	15.0	105°	208V / 3PH	29.0	40	ALL
CU-3	LENNOX	16ACX-060-230	60.0	15.5	105°	208V / 3PH	36.0	50	ALL
CU-4	LENNOX	16ACX-060-230	60.0	15.5	105°	208V / 3PH	36.0	50	ALL
CU-5	LENNOX	16ACX-036-230	36.0	16.0	105°	208V / 3PH	21.0	30	ALL
CU-6	LENNOX	16ACX-036-230	36.0	16.0	105°	208V / 3PH	21.0	30	ALL
CU-7	LENNOX	16ACX-060-230	60.0	15.5	105°	208V / 3PH	36.0	50	ALL

REMARKS:

- COOLING CAPACITY BASED ON A SUCTION TEMPERATURE OF 49°F.
- ENERGY-STAR COMPLIANT.
- PROVIDE WITH 3-1/2" CONCRETE PAD.

LOUVER SCHEDULE

PLAN MARK	QTY.	MANUFACTURER	MODEL NUMBER	STYLE	SERVICE	WIDTH (IN)	HEIGHT (IN)	APD (IN)	FREE AREA (SQ FT)	VELOCITY (FPM)	REMARKS
L-1	2	GREENECK	EDJ-401	STATIONARY	INTAKE	14	14	0.006	0.3	200	ALL

REMARKS:

- PROVIDE EXTENDED SILL AND MOUNTING FRAME TO MATCH CONSTRUCTION. COORDINATE EXACT LOUVER SIZE TO INSTALL WITHIN MASONRY DIMENSIONS.
- PROVIDE COLOR AS SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD COLORS.

GRILLE, REGISTER & DIFFUSER SCHEDULE

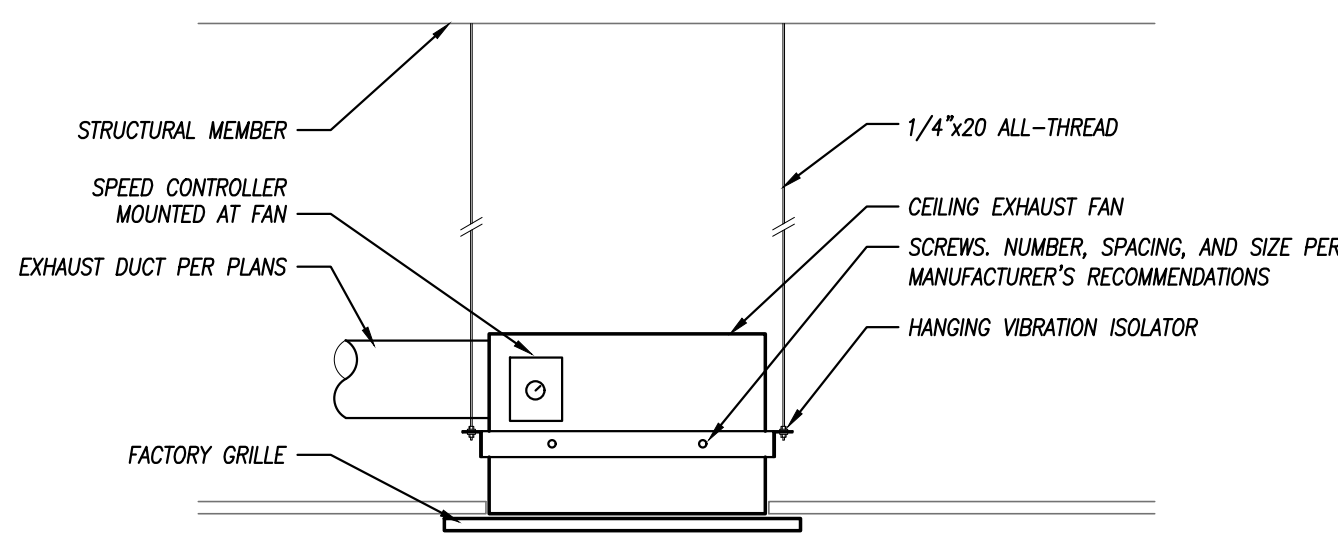
PLAN MARK	MANUFACTURER	MODEL NUMBER	MATERIAL	STYLE	DESCRIPTION	MOUNT TYPE	FACE SIZE (IN)	NECK SIZE (IN)	VOLUME DAMPER	MAX APD (IN. WG.)	MAX NC	FINISH COLOR	REMARKS
RT	TITUS	350FLF2	STEEL	SQUARE WALL	35 DEG SINGLE DEFLECTION AEROBLADE 3/4" SPACING	WALL	AS INDICATED	AS INDICATED	NO	0.08	25	WHITE	ALL

GENERAL REMARKS:

- PROVIDE ALL GRD WITH ALL NECESSARY MOUNTING HARDWARE.
- PROVIDE GRD WITHOUT SCREWBOLTS WHEN INSTALLED IN JAY-IN CEILINGS
- VERIFY CEILING CONFIGURATION, COLOR AND SPECIFICS WITH ARCHITECTURAL CEILING PLANS.

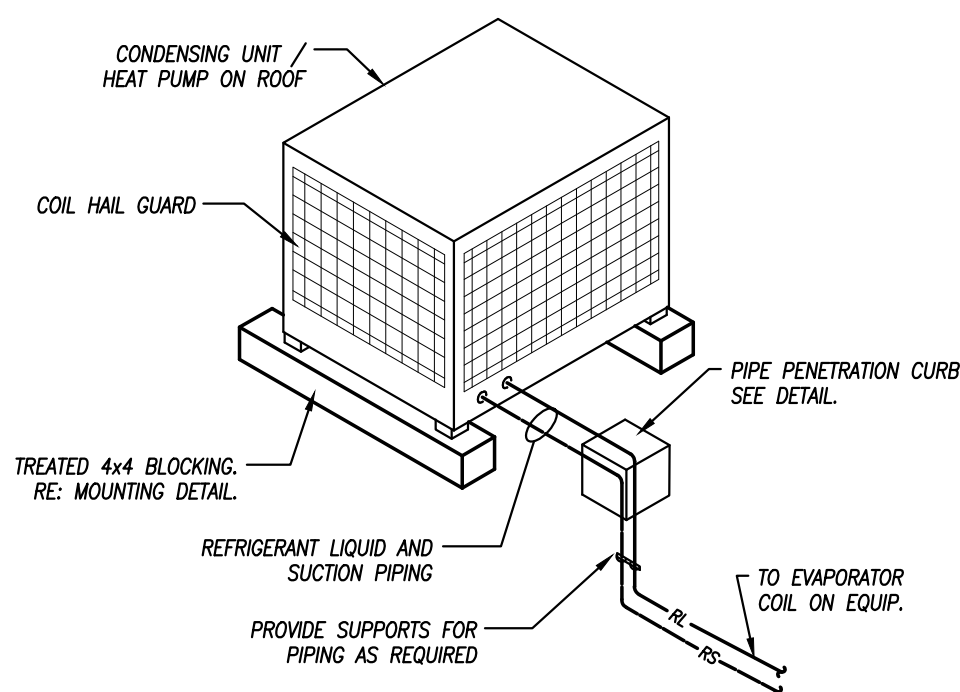
NOTES:

- PROVIDE WITH FILTERED GRILLE. PROVIDE WITH MERV 8 2" FILTER TO FIT WITHIN GRILLE ASSEMBLY



CABINET EXHAUST FAN MOUNTING DETAIL

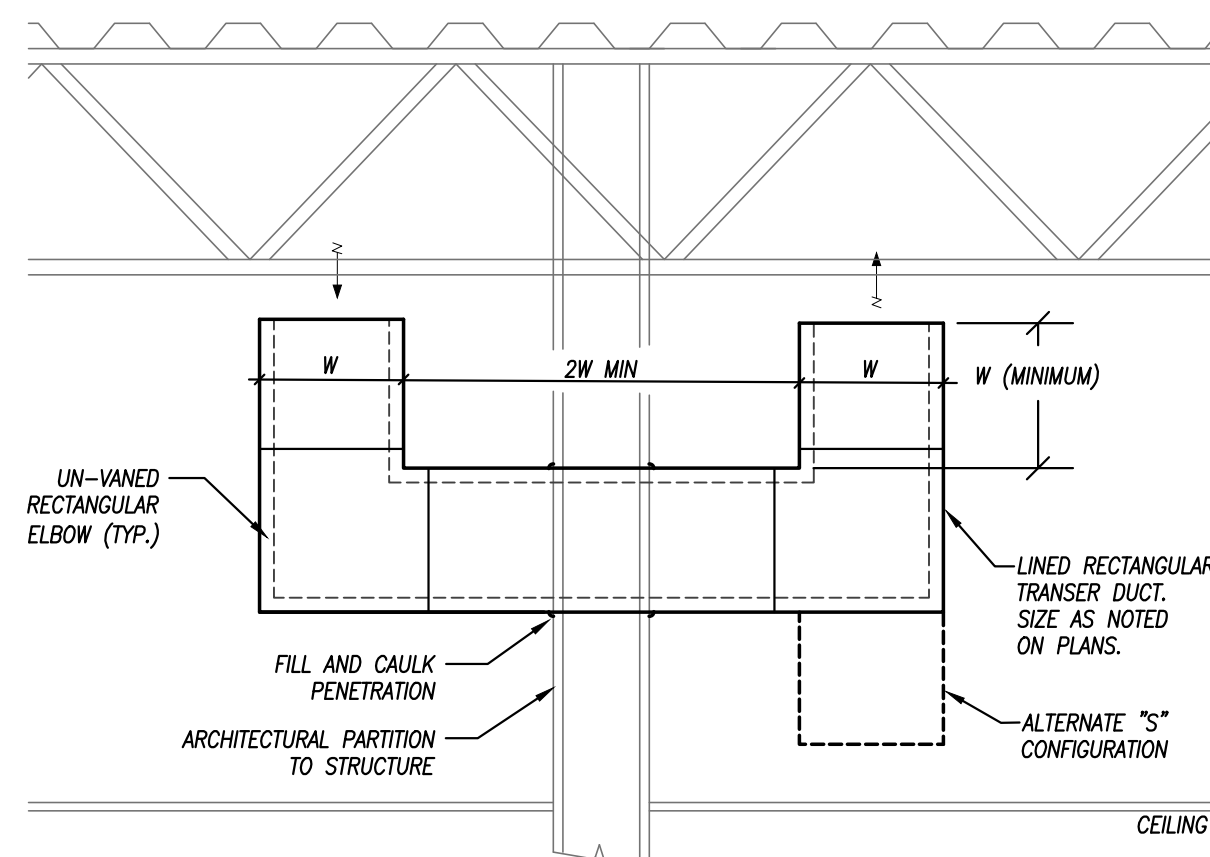
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CONDENSING UNIT / HEAT PUMP DETAIL

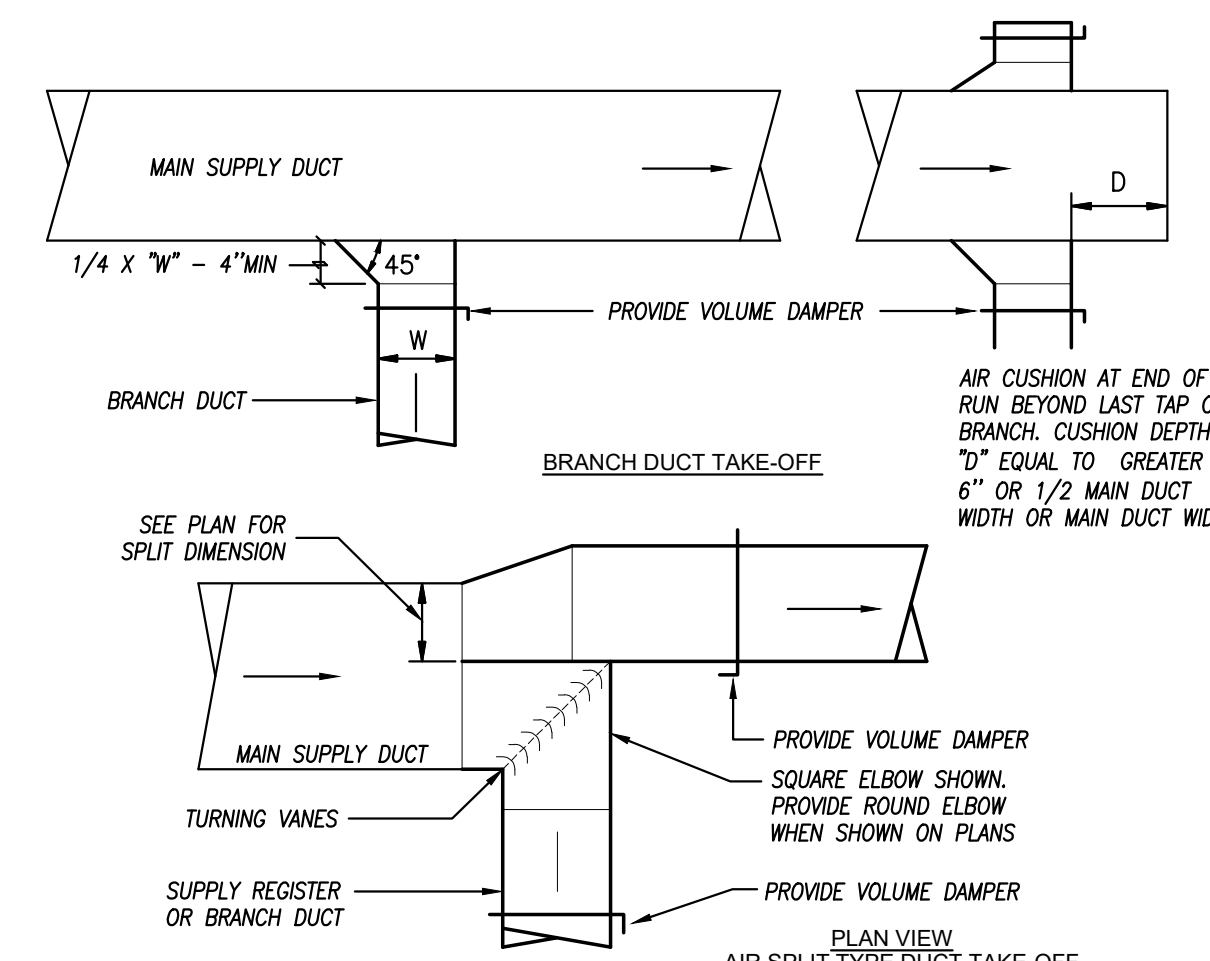
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- CONDENSING UNIT MANUFACTURER TO SIZE ALL REFRIGERANT LINES AND PROVIDE ALL ACCESSORIES FOR VERTICAL RUNS AS REQUIRED.
- INSULATE REFRIGERANT SUCTION LINES - REFER TO SPECIFICATIONS.



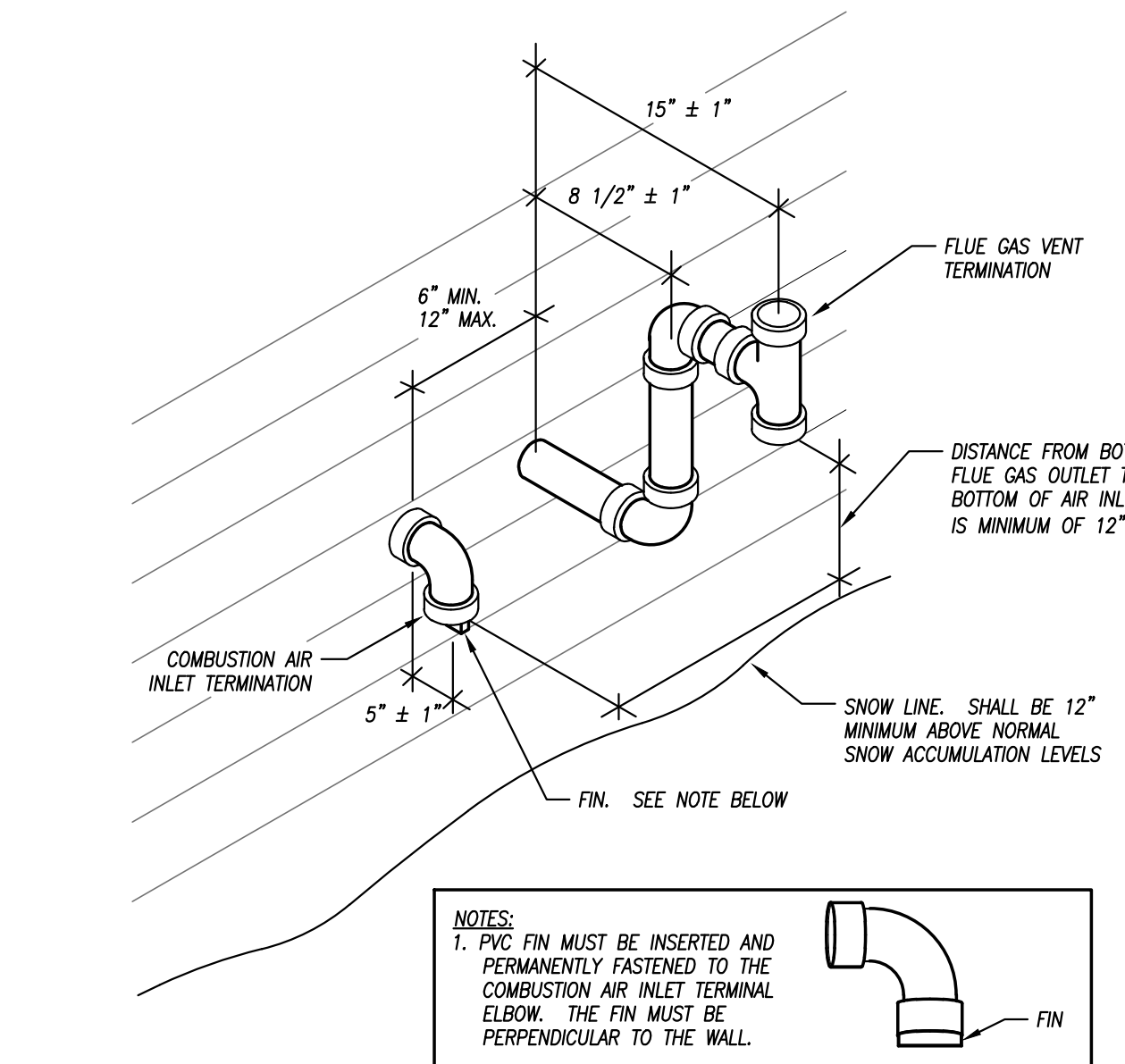
TRANSFER BOOT DETAIL

NOT TO SCALE



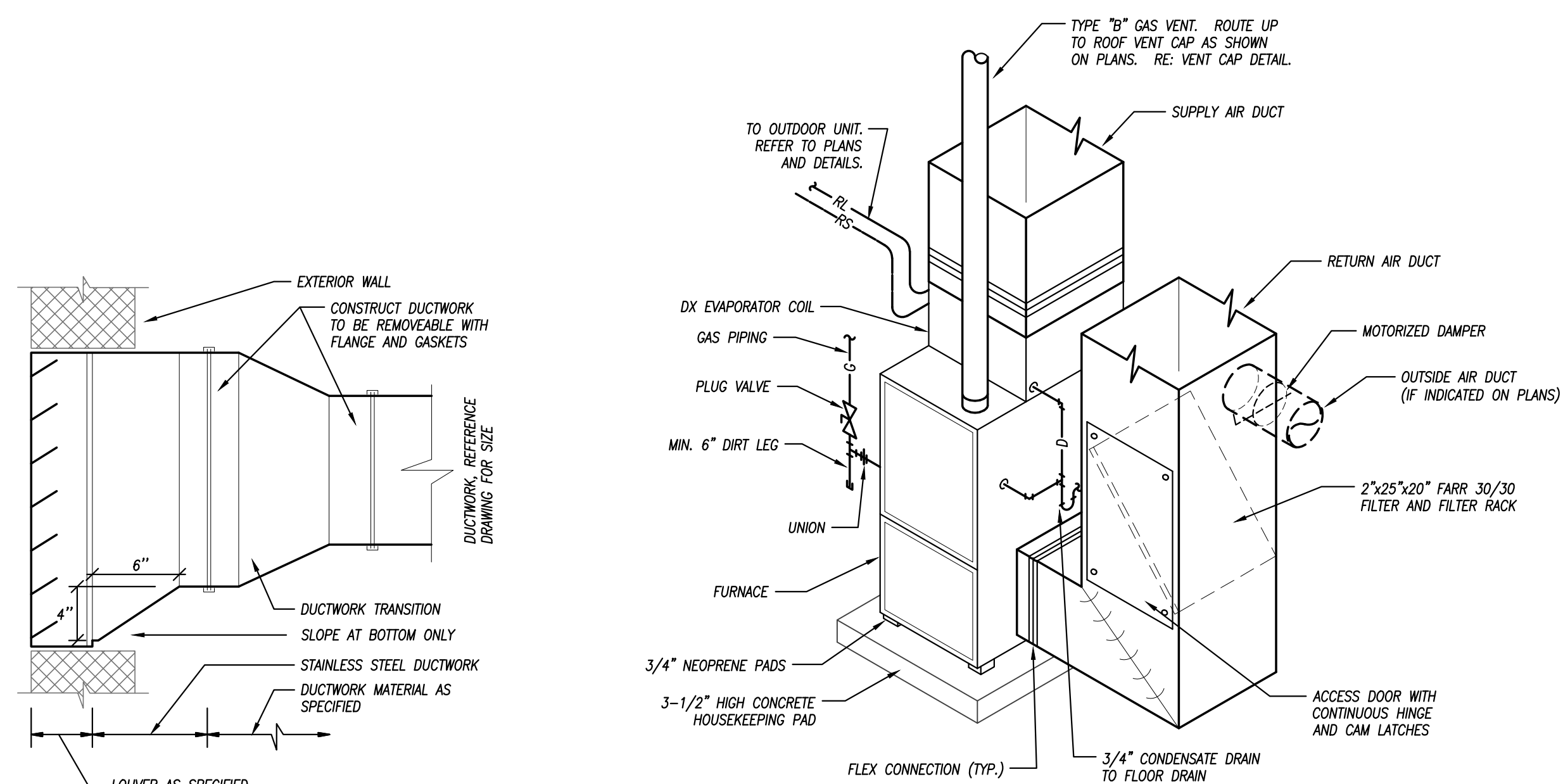
DUCTWORK TAKEOFFS

NOT TO SCALE



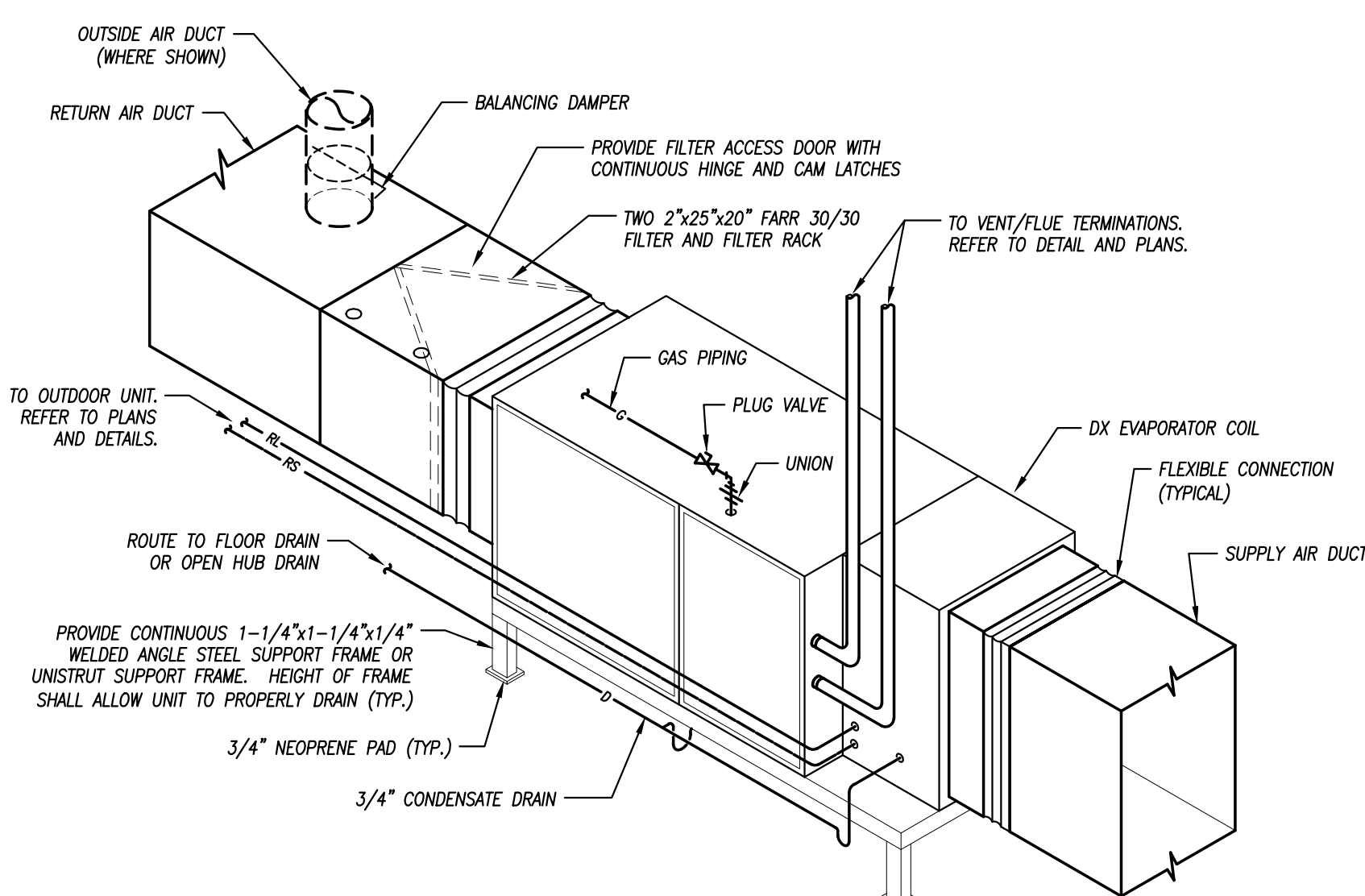
WALL VENT/COMBUSTION AIR DETAIL

NOT TO SCALE



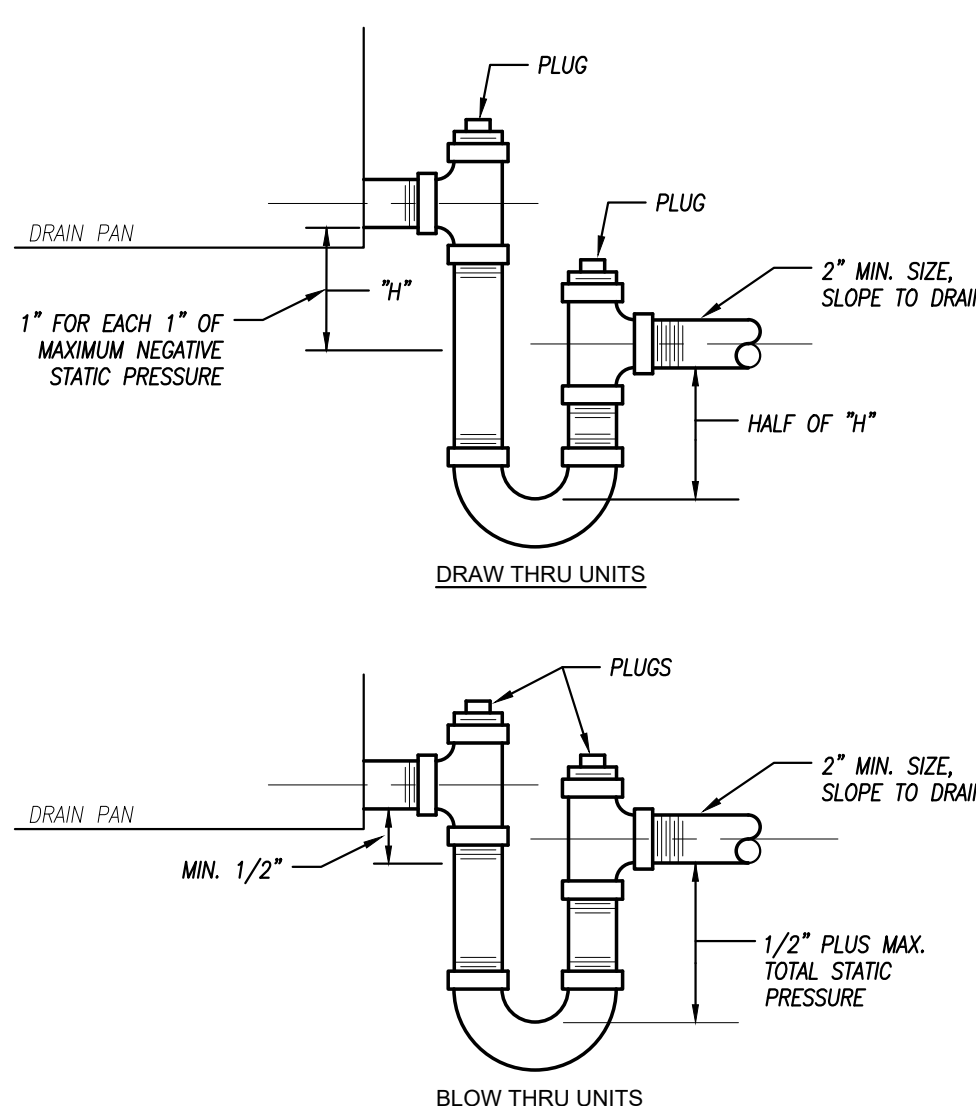
FURNACE DETAIL

NOT TO SCALE



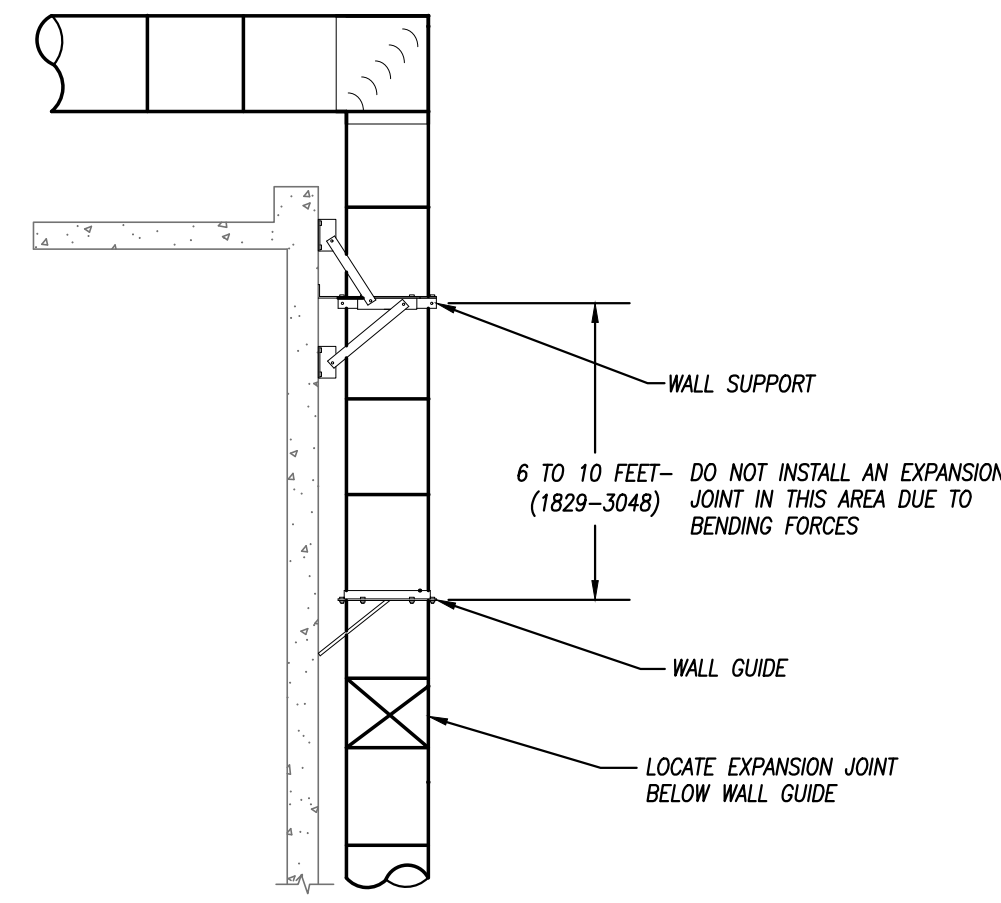
HORIZONTAL FURNACE DETAIL

NOT TO SCALE



CONDENSATE TRAP DETAIL

NOT TO SCALE



GREASE DUCT ON WALL DETAIL

NOT TO SCALE



MECHANICAL - SCHED. /DETAILS

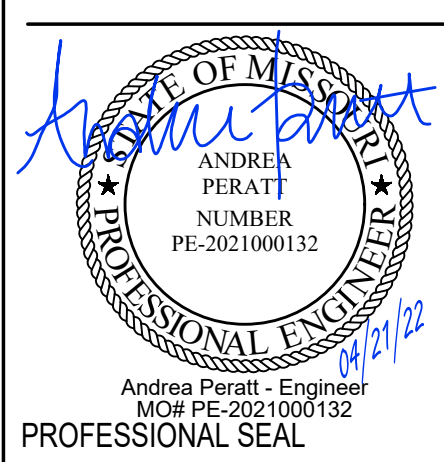


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 **1ST FLOOR PLAN - DEMOLITION**
1/8" = 1'-0"

 **2ND FLOOR PLAN - DEMOLITION**
1/8" = 1'-0"

GENERAL DEMOLITION NOTES

1. REFER TO GENERAL DEMOLITION NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.

DEMOLITION PLAN KEYED NOTES

- ① REMOVE ALL DOMESTIC COLD WATER, HOT WATER, SANITARY & VENT PIPE SERVING FIRST FLOOR FIXTURES AND EQUIPMENT. DO NOT DEMOLISH SANITARY PIPES FROM SECOND FLOOR. REFER TO NEW WORK PLAN.
- ② GAS PIPE SERVING FIRST FLOOR TO BE REMOVED.
- ③ EXISTING WATER HEATER TO BE REPLACED ON SAME LOCATION. REUSE ALL EXISTING PIPES AND ACCESSORIES. REFER TO NEW WORK PLAN.
- ④ EXISTING FURNACE TO BE REPLACED ON SAME LOCATION. RECONNECT EXISTING GAS AND PROVIDE NEW CONDENSATE DRAIN PIPE.



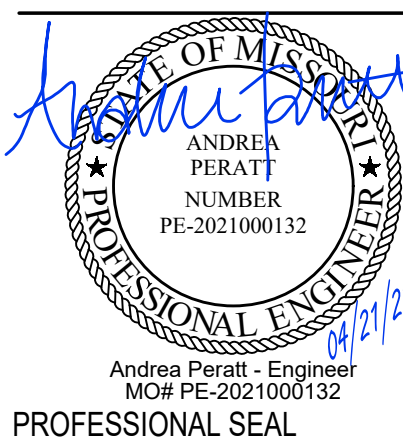
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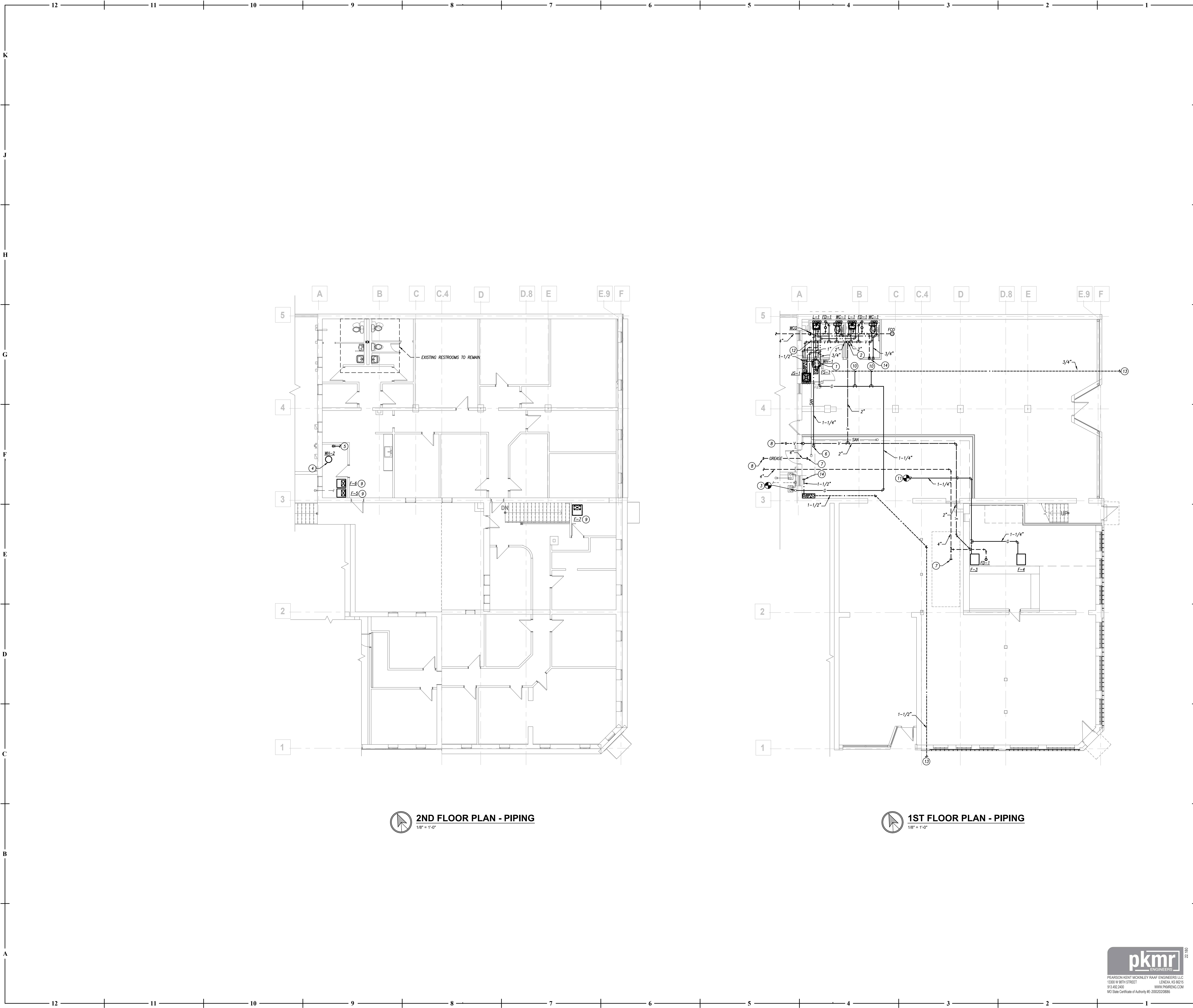
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PEARSON KENT MCKINLEY RAAF ENGINEERS, LLC
1300 W 96TH STREET
LENDIA, KS 66215
913.482.2400 WWW.PKMRNG.COM
MO State Certificate of Authority #E-0002020886

DEMOLITION - FLOOR PLANS

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2ND FLOOR PLAN - PIPING
1/8" = 1'-0"

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

GENERAL PLUMBING NOTES

1. REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.
2. REFER TO PLUMBING FIXTURE / DRAIN SCHEDULES FOR PIPING SIZES FOR INDIVIDUAL CONNECTIONS TO FIXTURES AND RISERS NOT SHOWN ON PLANS.
3. NO SANITARY OR VENT PIPING BELOW GRADE SHALL BE LESS THAN 2'.
4. NO DOMESTIC WATER PIPING SHALL BE SMALLER THAN 3/4" UNLESS NOTED OTHERWISE.
5. ALL VENT PIPING SHOWN IS DIAGRAMMATIC. USE APPROPRIATE FITTINGS FOR VENT PIPING BELOW FLOOD SIM OF FIXTURE.
6. NOT ALL INTERIOR CLEANOUTS ARE SHOWN FOR DRAWING CLARITY. CONTRACTOR SHALL INSTALL ALL CODE-REQUIRED CLEANOUTS (RE: GENERAL NOTES ON COVER SHEET). COORDINATE EXACT LOCATIONS OF CLEANOUTS WITH ARCHITECT.
7. ALL FLOOR DRAIN TRAPS SHALL BE PROTECTED BY ONE OF THE FOLLOWING METHODS, TO BE INSTALLED AT CONTRACTOR'S DISCRETION AND IN COMPLIANCE WITH ADOPTED VERSION OF PLUMBING CODE AND/OR ANI.
 - 7.1. PROVIDE TRAP SEALS LISTED FOR PROPOSED USE.
 - 7.2. PROVIDE TRAP PRIMERS. 1/2" TRAP PRIMER PIPING TO NEAREST TRAP PRIMER VALVE. PIPING SHALL BE TYPE "K" SOFT COPPER SEAMLESS WITH NO JOINTS FROM VALVE TO DRAIN.

PLUMBING PLAN KEYED NOTES

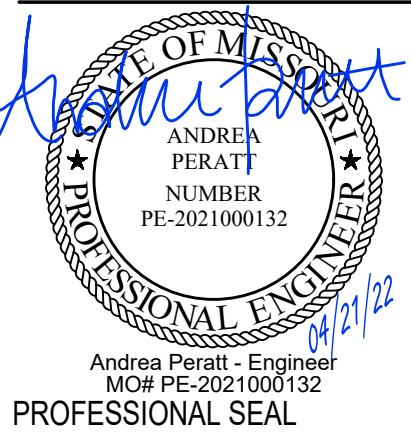
1. INSTALL WATER HEATER NEXT TO JANITOR'S SINK.
2. 3" VENT THROUGH CHASE ON 2ND FLOOR TO ROOF. TERMINATE VENT 10' CLEAR FROM ANY OUTSIDE AIR INTAKE.
3. CONNECT TO EXISTING GAS MAIN FOR NORTH/SECOND FLOOR TENANT. CONTRACTOR SHALL FIELD VERIFY GAS PIPE ROUTING AND SIZING PRIOR TO NEW SCOPE OF WORK.
4. NEW WATER HEATER. RECONNECT WATER HEATER TO EXISTING PLUMBING. PROVIDE NEW PIPE/PIPE FITTING IF REQUIRED.
5. 3/4" DOMESTIC WATER PIPE UP FROM FLOOR BELOW. CONNECT TO EXISTING COLD WATER MAIN TO SERVE ALL 2ND FLOOR PLUMBING FIXTURES AND EQUIPMENT. CONTRACTOR TO VERIFY LOCATION OF EXISTING PIPE.
6. 3/4" COLD WATER PIPE TO 2ND FLOOR.
7. PIPE TO BE CAPPED FOR FUTURE TENANT USE. PIPING TO BE 36" BELOW FINISH GRADE FOR FUTURE TENANT USE.
8. UNDERGROUND GREASE AND VENT TO BE CAPPED OUTSIDE FOR FUTURE GREASE INTERCEPTOR.
9. RECONNECT EXISTING GAS TO FURNACES. PROVIDE NEW CONDENSATE DRAIN AND TERMINATE TO NEAREST FLOOR DRAIN.
10. GAS PIPE FOR FURNACE F-1 AND F-2 RESPECTIVELY. REFER TO DETAIL FOR CONNECTION.
11. CONNECT TO EXISTING GAS MAIN FOR SOUTH TENANT. CONTRACTOR SHALL FIELD VERIFY GAS PIPE ROUTING AND SIZING PRIOR TO NEW SCOPE OF WORK.
12. CONNECT EXISTING SANITARY LINE FROM SECOND FLOOR EXISTING PIPING TO REMAIN. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING WORK.
13. REFER TO CIVIL FOR CONTINUATION.
14. CAP PLUMBING PIPING FOR FUTURE TENANT BUILD OUT.

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PLUMBING - FLOOR PLANS



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PLUMBING FIXTURE SCHEDULE											
MARK	FIXTURE MODEL	FIXTURE DESCRIPTION	FITTINGS AND TRIM				REMARKS	PLUMBING FIXTURE PIPE SIZES			
			FITTINGS MODEL	FITTINGS AND DESCRIPTION				WASTE	VENT	DCW	DHW
L-1	TBO OWNER SELECTION	WALL-HUNG LAVATORY. 20"x18" WHITE VITREOUS CHINA BOWL WITH 4" BACK FOR USE WITH CONCEALED ARM HANGER. FAUCET HOLES COORDINATED WITH FAUCET AND TRIM. PROVIDE CONCEALED ARM CARRIER.	TBO OWNER SELECTION	CENTERSET SINGLE HOLE FAUCET WITH LOOP METAL LEVER HANDLE. 1/2" CONNECTIONS, WITH DRAIN AND POP-UP HOLE. POLISHED CHROME FINISH			1,2,3,4,5	2"	1-1/2"	1/2"	1/2"
WC-1	TBO OWNER SELECTION	ADA-COMPLIANT, 1/28.0/39 GPM DUAL FLUSH TANK WATER CLOSET. PRESSURE-ASSISTED SPRAY JET. WHITE VITREOUS CHINA ELONGATED BOWL AND TANK. 16-1/8" HIGH. TWO PIECE, 12" ROUGH-IN. FURNISH WITH POLISHED CHROME FLUSH ACTUATOR ON WIDE SIDE OF STALL.	TBO OWNER SELECTION	WHITE, SOLID PLASTIC, CLOSED-FRONT SEAT FOR ELONGATED BOWL. INTEGRAL BUMPER. SOLID TOP LID. EXTERNAL CHECK RINGS WITH STAINLESS STEEL POSTS.			3,6	4"	2"	1/2"	---
JS-1	F84T FSBT-6010	JANITORS SINK: 24"x24"x12" PRECAST TERRAZZO FLOOR SERVICE SINK. CORNER CHAMFERED MODEL FOR INSTALLATION IN CORNER OF STAINLESS STEEL CAP AND 2 SIDE WALL. TUNG FLANGE. 3" STAINLESS STEEL CAST DRAIN AND STAINLESS STEEL STRAINER PLATE. PROVIDE STAINLESS STEEL WALL GUARDS, MOP BRACKETS, HOSE RACK.	CHICAGO FAUCET 887-CP	C.P. SERVICE SINK FITTING WITH VACUUM BREAKER, 3/4" HOSE THREAD ON SPOUT, ADJUSTABLE WALL BRACKET, PAL HOOD, AND 1/2" FLANGED FEMALE ADJUSTABLE ARM WITH INTEGRAL STOP. CAULK BETWEEN WALL AND FLANGE WITH DE SILICONE SEALANT. 3" CL. 1" TRAP.			---	3"	2"	1/2"	1/2"
REMARKS: 1. PROVIDE CHROME-PLATED BRASS TAILPIECE AND GRID DRAIN. 2. PROVIDE CHROME-PLATED BRASS P-TRAP. 3. PROVIDE LOOSE KEY STOPS AND FLEXIBLE RISERS. 4. PROVIDE CONCEALED ARM TYPE CARRIER WITH SQUARE, TUBULAR STEEL UP-RIGHTS AND BLOCK TYPE BASES. 5. INSULATE EXPOSED TAILPIPE, P-TRAP, AND WATER RISERS. REFER TO SPECIFICATIONS FOR INSULATION METHODS. 6. PROVIDE FLUSH VALVE HANDLE ON WIDE SIDE OF STALL. 7. PROVIDE HANDLE STOPS AND FLEXIBLE RISERS. 8. PROVIDE CHROME-PLATED BRASS TAILPIECE AND BASKET STRAINER.											
GENERAL NOTES (APPLICABLE TO ALL FIXTURES): 1) ALL PUBLIC LAVATORIES AND SINKS SHALL BE PROVIDED WITH ANTI-SOLD ASSE 1070 LISTED VALVE ON HOT WATER SUPPLY. 2) VARIO PLUMBING MATERIALS AND EQUIPMENT COORDINATE BETWEEN TRADES. VERIFY CABINET SIZES, COUNTERTOP MATERIALS, WALL THICKNESSES, ETC ARE APPROPRIATE FOR SPECIFIED EQUIPMENT PRIOR TO ORDER.											

PLAN MARK	MANUFACTURER	MODEL NUMBER	SERVICE	TOP/GRATE SIZE	WASTE SIZE	REMARKS
FD-1	WADE	1100	FLOOR DRAIN	6"Ø	2"	1
FS-1	WADE	9100	FLOOR SINK	12"x12"	4"	2

REMARKS:

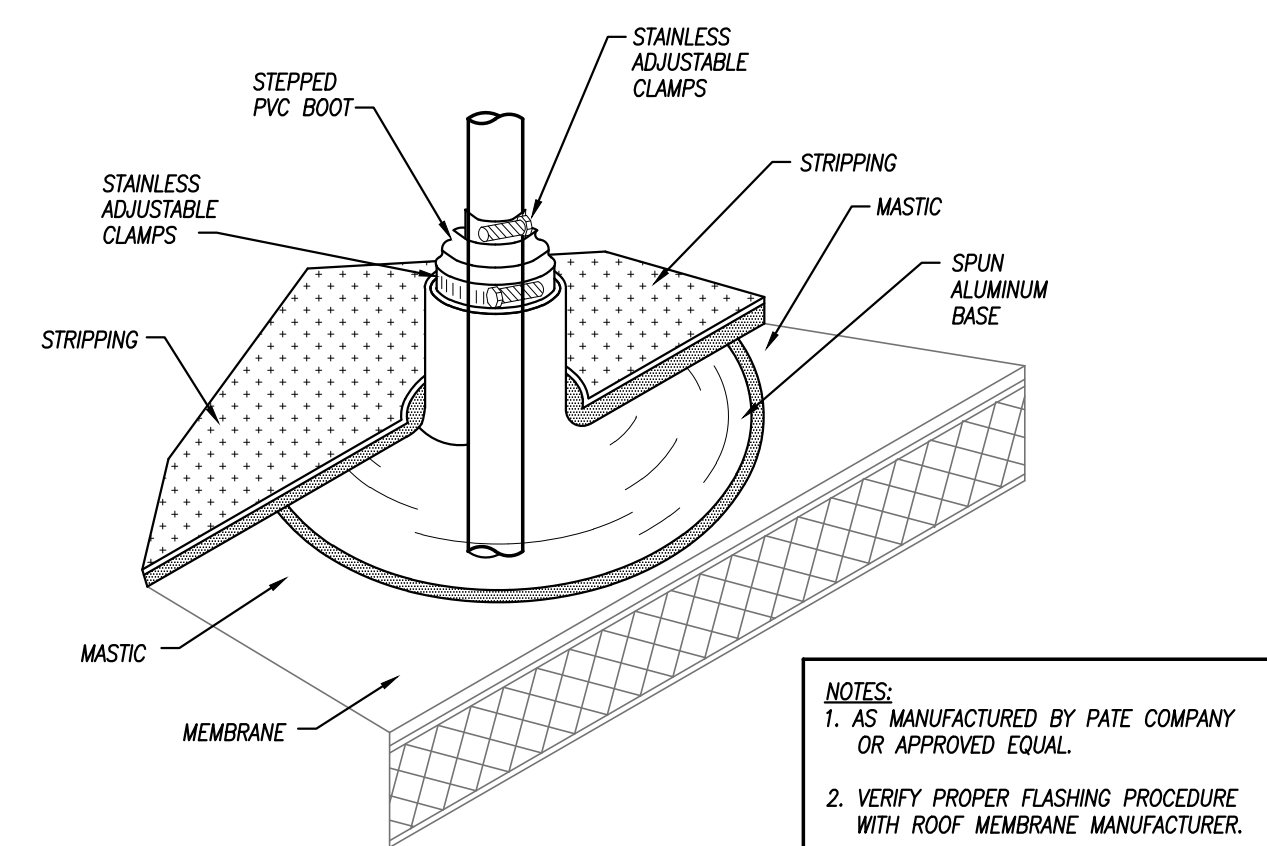
1. PROVIDE WITH NICKEL BRONZE TOP.
2. PROVIDE WITH 3/4" GRATE.

GAS WATER HEATER SCHEDULE											
PLAN MARK	MANUFACTURER	MODEL NUMBER	GALLONS	STYLE	GAS INPUT (MBH)	ENERGY FACTOR	RECOVERY @ 90°F RISE	FLUE SIZE (IN/OUT)	VOLTAGE/ PHASE	REMARKS	
	STATE	GSX 50	50	RESIDENTIAL	POWER DIRECT VENT	65	0.58	64	3" / 3"	120V / 1PH	2
WH-2	STATE	GPX 50	50	RESIDENTIAL	STANDARD EFF.	50	0.62	41	4" / 3"	120V / 1PH	1

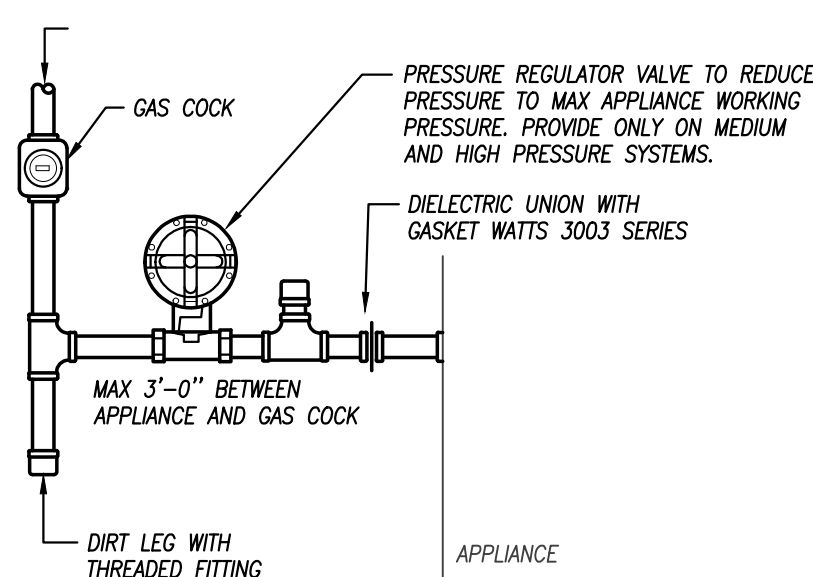
REMARKS:

1. DIRECT-VENT STYLE WATER HEATER.

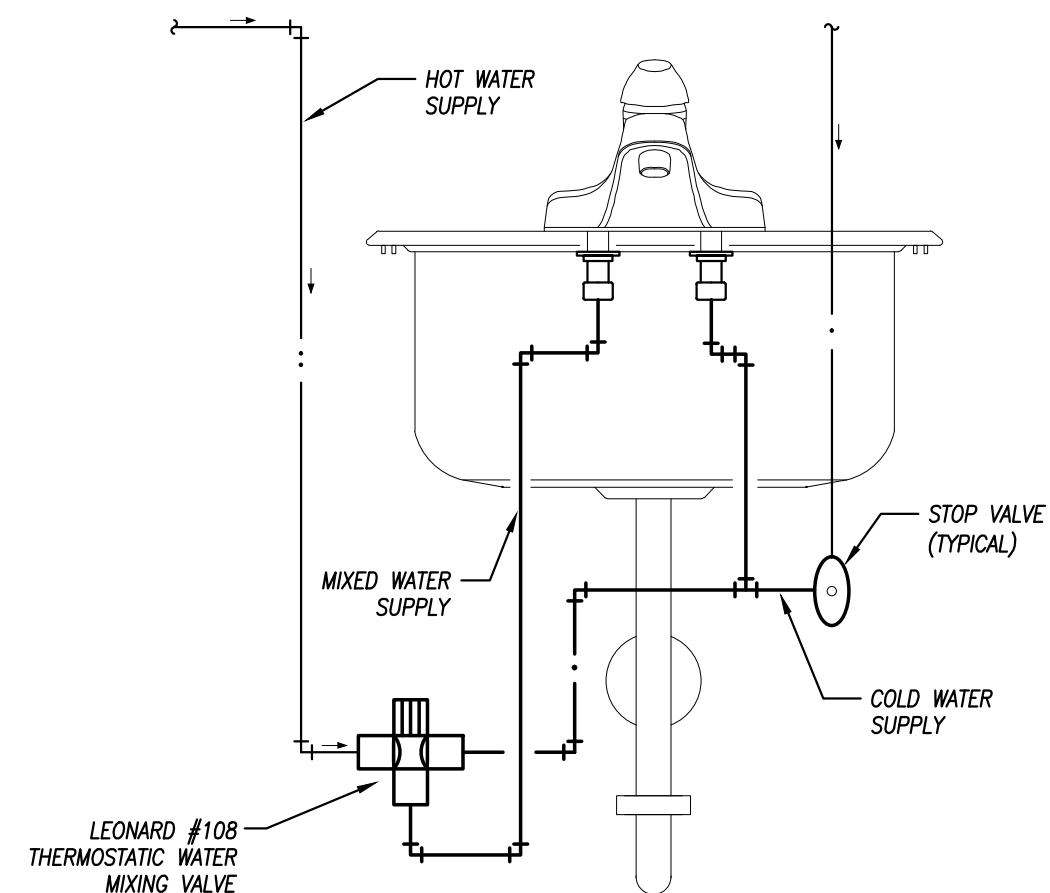
2. PROVIDE WITH MANUFACTURERS CONCENTRIC VENT KIT.



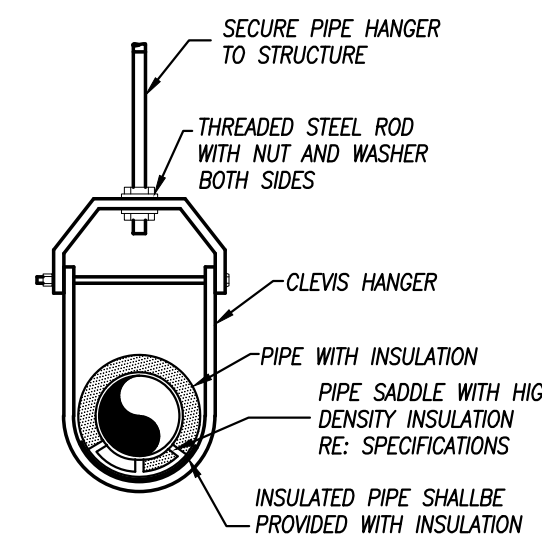
ROOF PLUMBING VENT



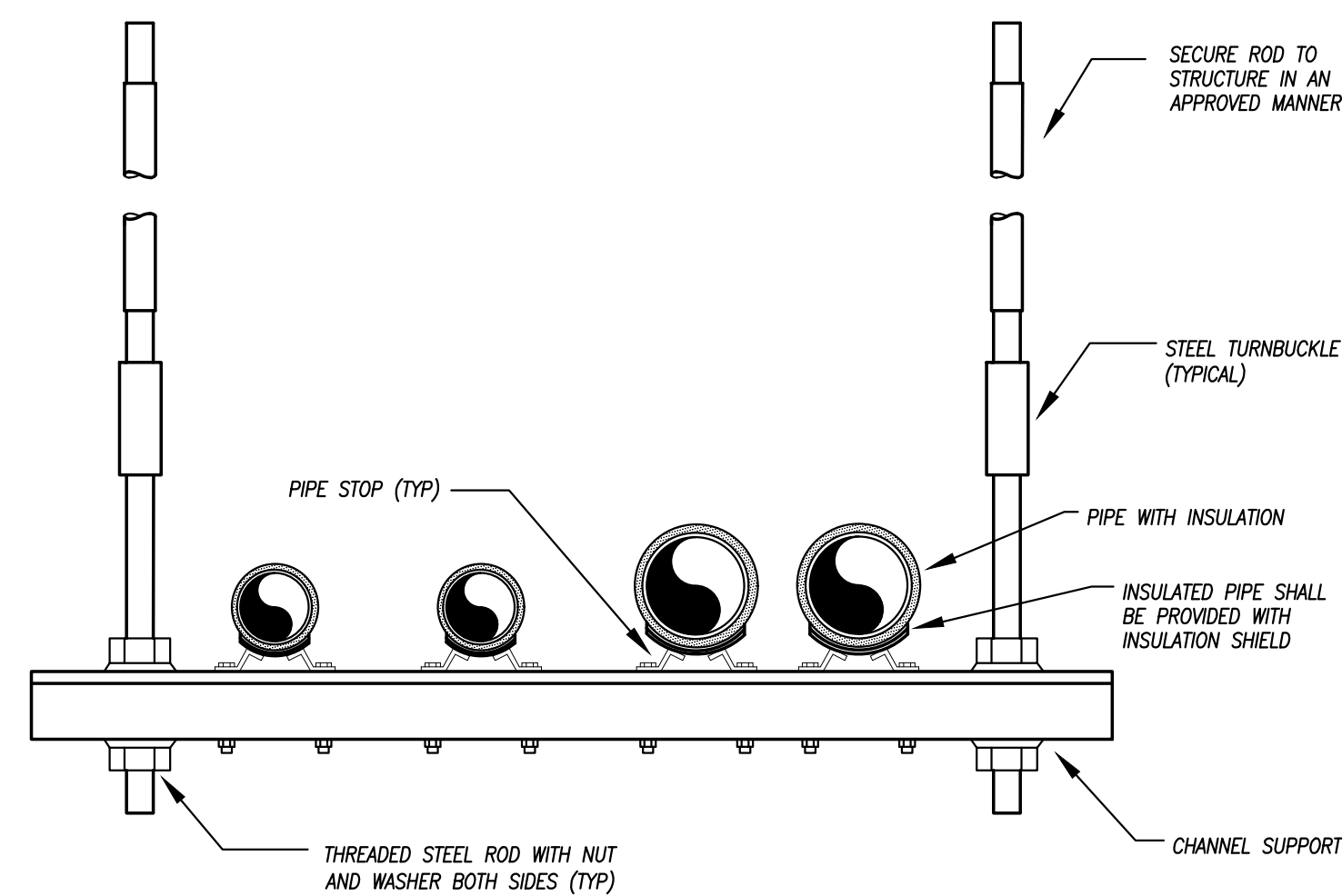
TYPICAL GAS CONNECTION



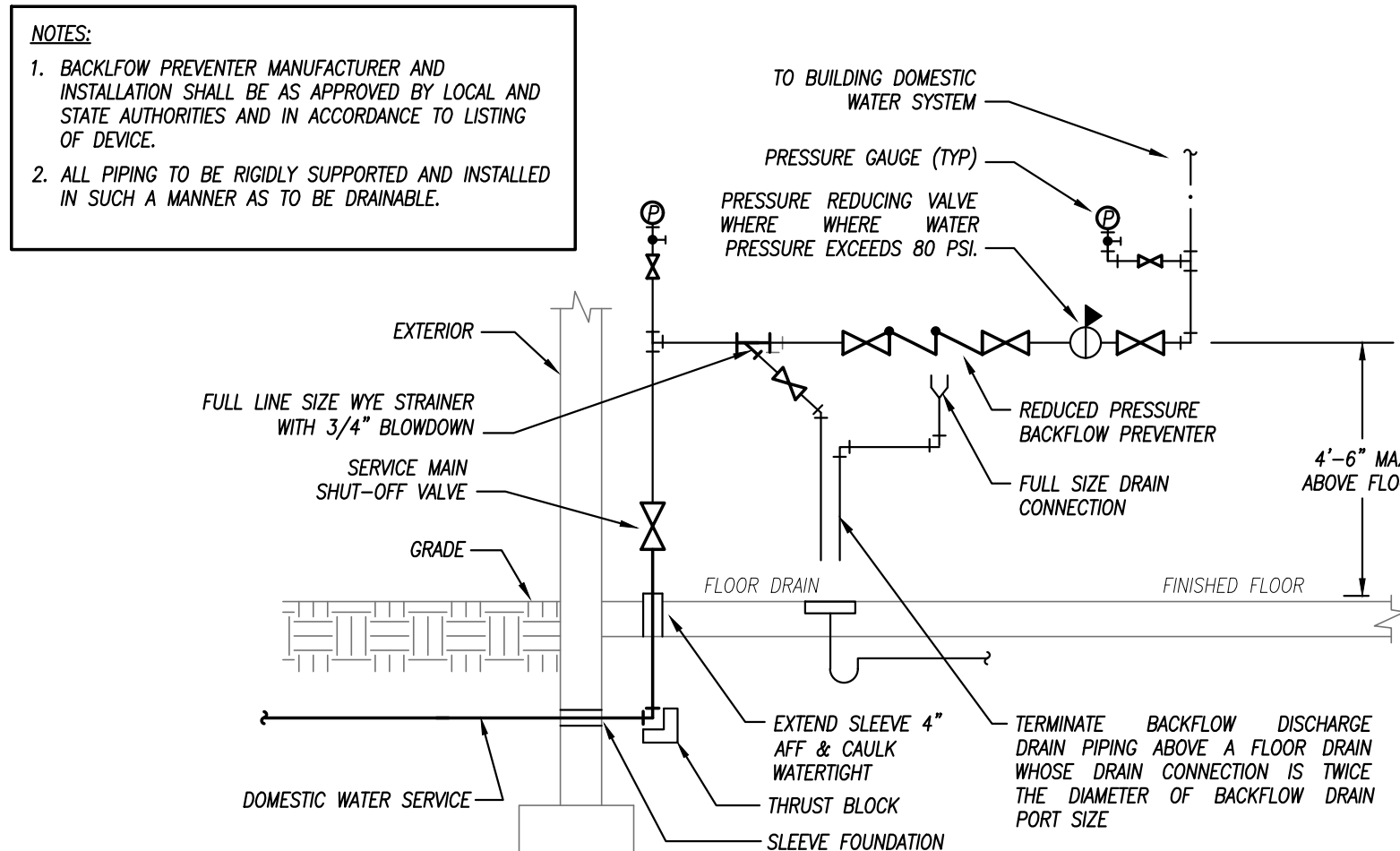
HAND WASHING SINK/LAVATORY TEMPERED WATER SCHEMATIC



PIPE HANGER DETAIL



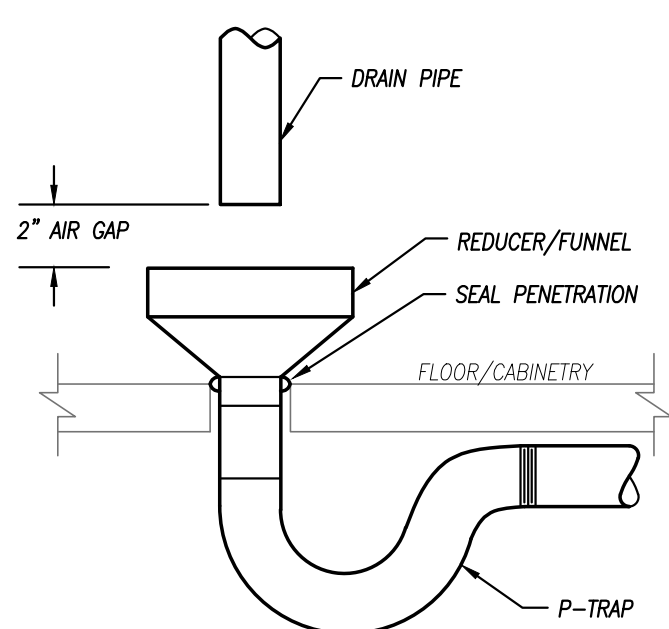
MULTIPLE PIPE TRAPEZE HANGER DETAIL
NOT TO SCALE



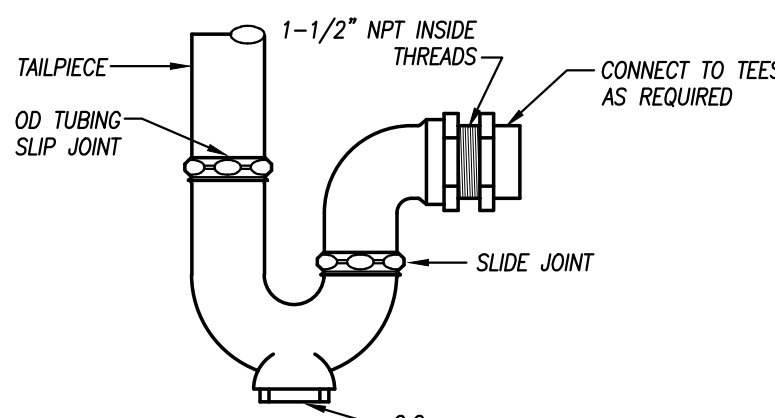
WATER SERVICE

REDUCED PRESSURE BACKFLOW PREVENTER DETAIL

NOT TO SCALE

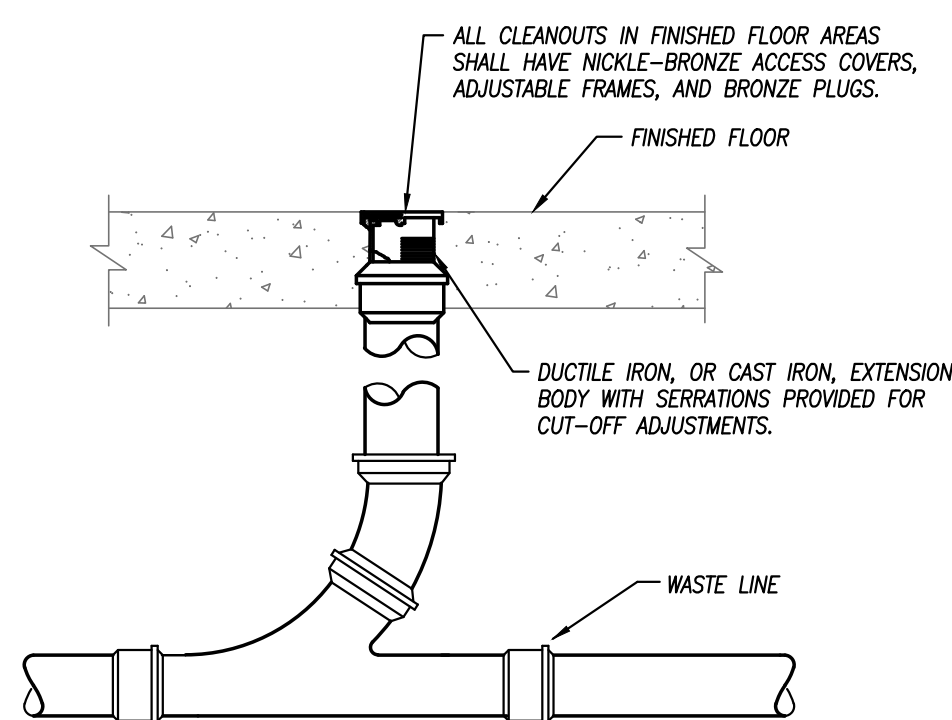


AIR GAP DETAIL

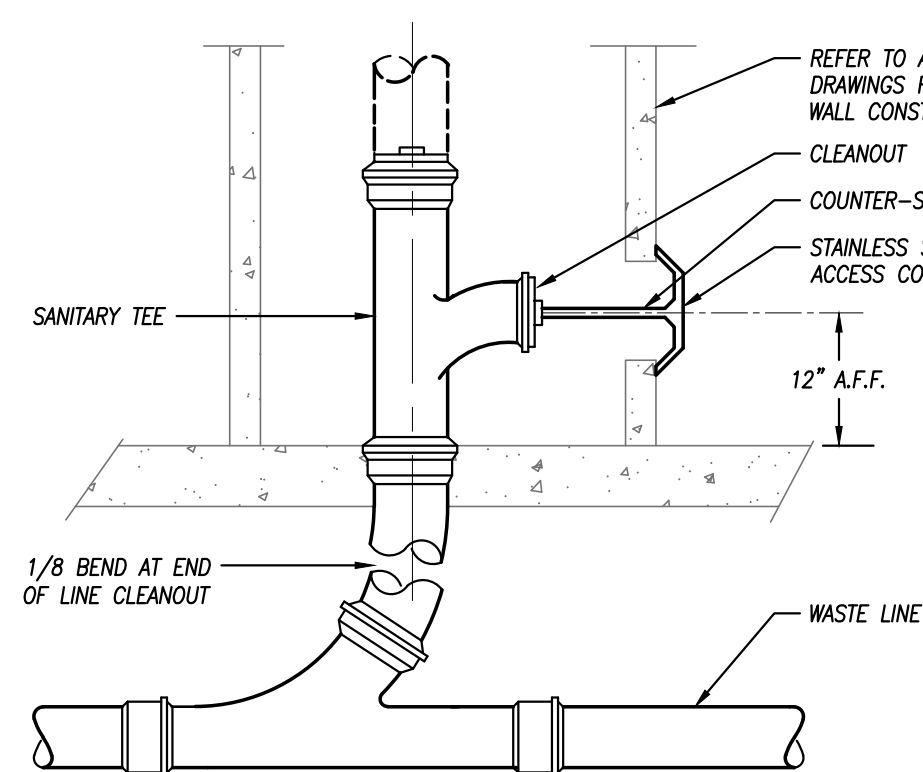


P-TRAP DETAIL

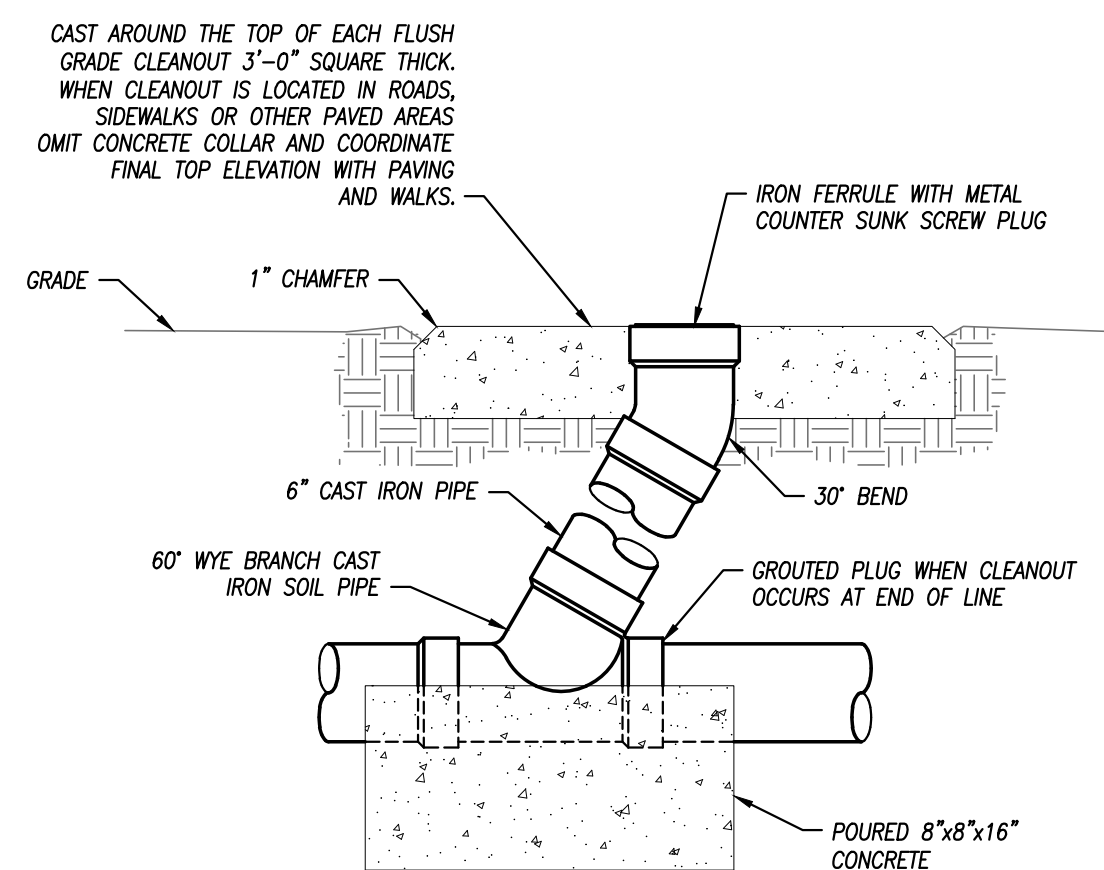
NOT TO SCALE



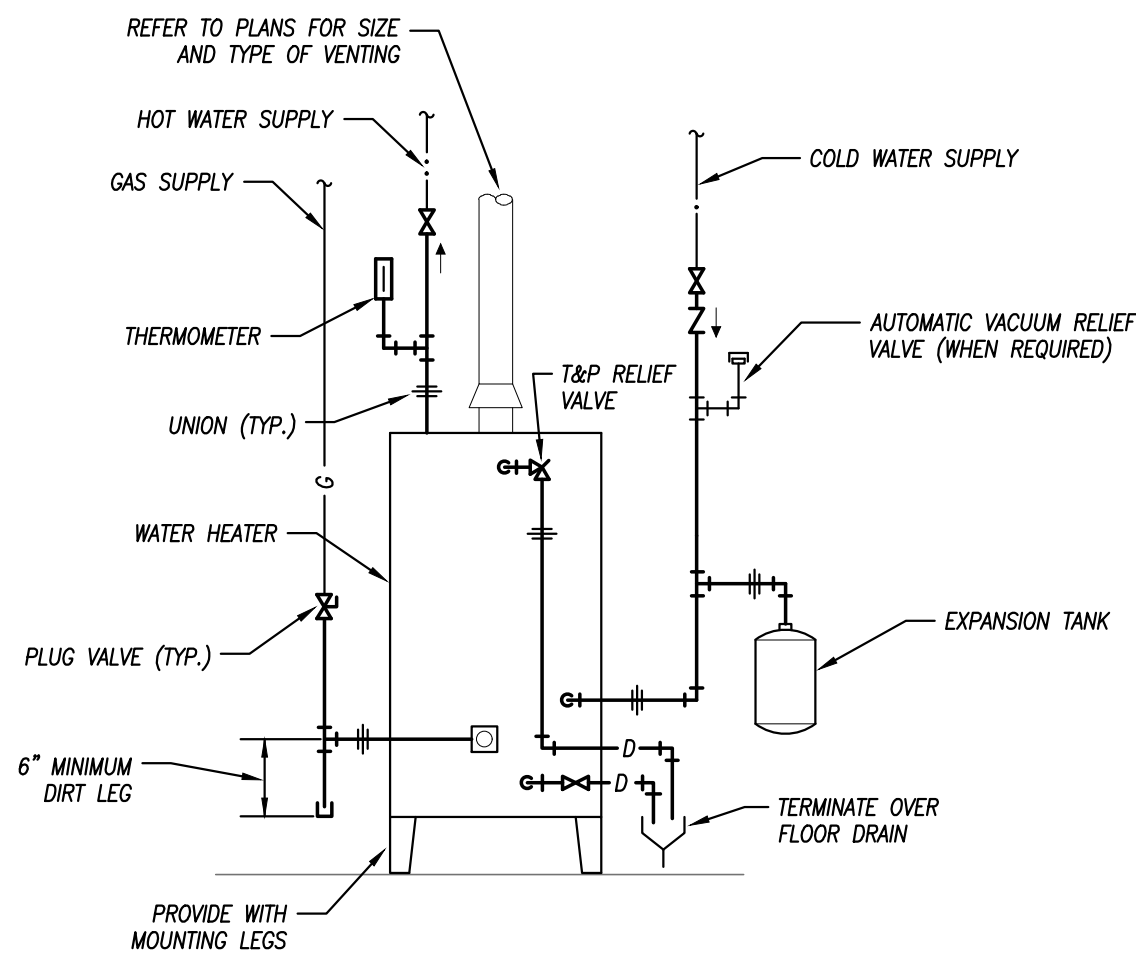
FLOOR CLEANOUT DETAIL



WALL CLEANOUT DETAIL

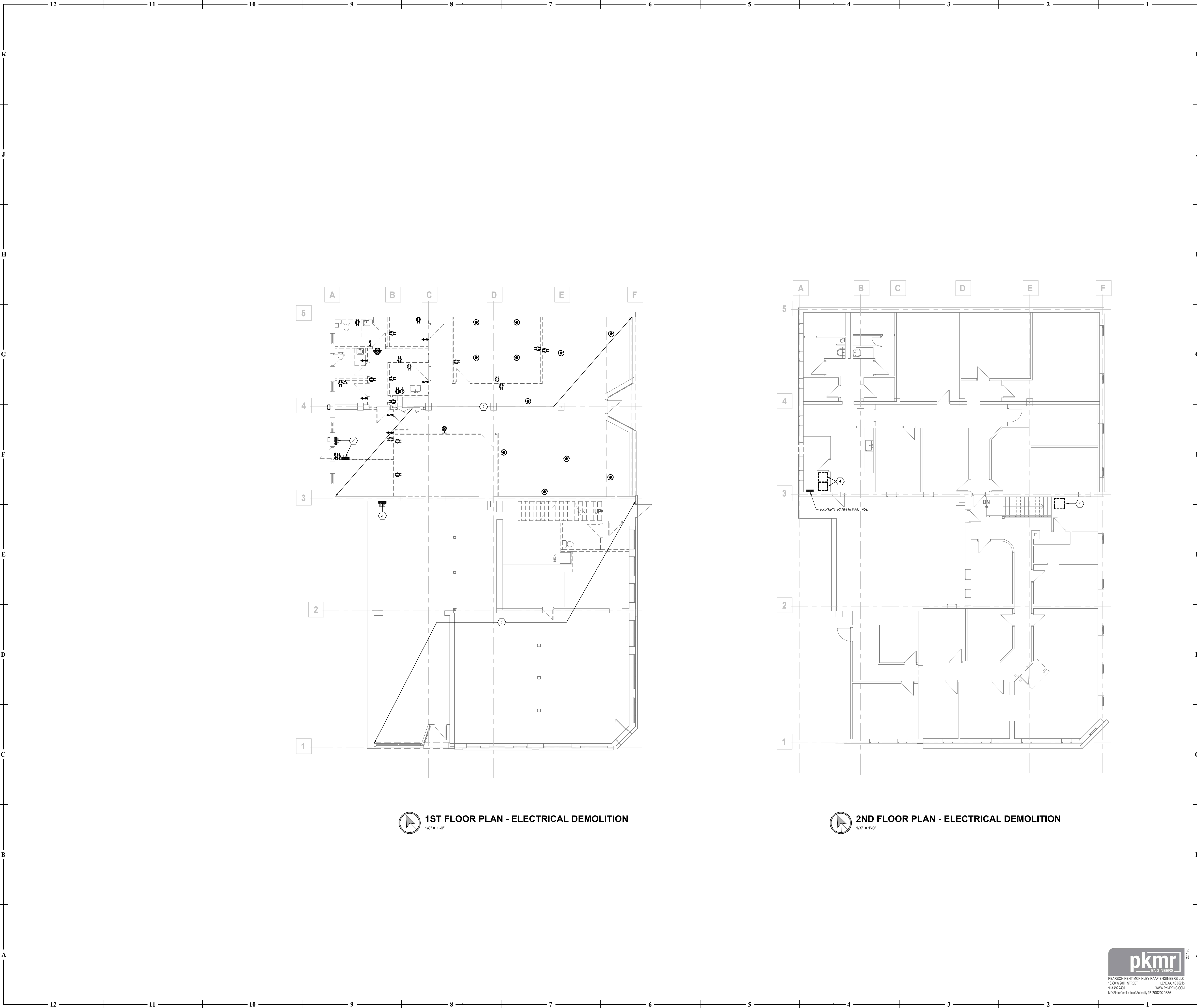


FLUSH GRADE CLEANOUT DETAIL



GAS WATER HEATER DETAIL





**GENERAL DEMOLITION
NOTES**

1. REFER TO GENERAL DEMOLITION NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.

**DEMOLITION PLAN
KEYED NOTES**

- 1 REMOVE ALL FIXTURES, EQUIPMENT, AND DEVICES THIS AREA. REMOVE ALL WIRING/CONDUIT AND PIPING TO SAME NOT REQUIRED TO REMAIN.
- 2 REMOVE PANELBOARD AND MAINTAIN EXISTING CIRCUITS TO REMAIN. INCEPT AND EXTEND EXISTING BRANCH CIRCUITS NEW PANELBOARD IN NEW LOCATION. REFER TO NEW WORK DRAWINGS FOR MORE INFORMATION.
- 3 REMOVE EXISTING PANELBOARD. REMOVE FEEDERS AND BRANCH CIRCUITS TO SAME.
- 4 EXISTING FURNACE TO BE REPLACED. MAINTAIN EXISTING WIRING/CONDUIT TO RECONNECT TO NEW FURNACE.



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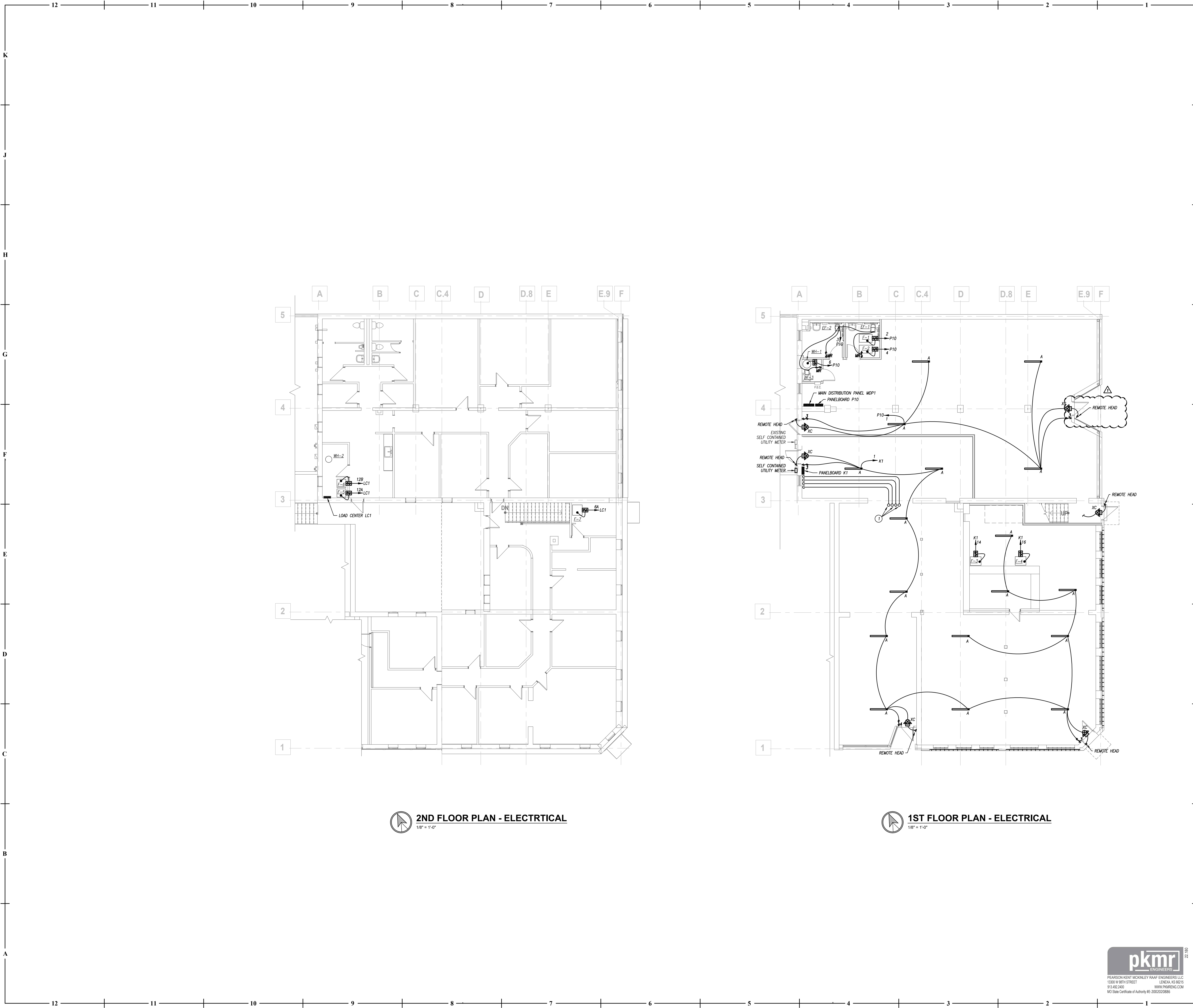
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**ELECTRICAL DEMOLITION -
FLOOR PLANS**



PEARSON KENT MCKINLEY RAAP ENGINEERS, LLC
1300 W 96TH STREET
LENDIA, KS 66215
913.482.2403 WWW.PKMRNG.COM
MO State Certificate of Authority #E-0002020886

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GENERAL LIGHTING NOTES

1. REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.
2. LIGHT FIXTURES INDICATED AS EMERGENCY FIXTURES ARE TO FUNCTION AS NIGHT LIGHTS UNLESS SPECIFICALLY SHOWN SWITCHED.
3. ALL CIRCUITING SHOWN ON THIS PLAN IS DIAGRAMMATIC.
3.1. ALL FIXTURES SHALL BE FED FROM JUNCTION BOXES WITH LIGHT FIXTURE WIRING (<4'). GASTY-CIRCUITING OF FIXTURES IS NOT ALLOWED.
3.2. SWITCH BOX LOCATIONS SHALL BE WIRED SO THAT A NEUTRAL WIRE IS AVAILABLE AT THE SWITCH BOX LOCATION, EITHER IN THE BOX OR AVAILABLE TO BE ADDED VIA RACEWAY OR AN ACCESSIBLE WALL CAVITY.
3.3. WALL SWITCHES FOR SEPARATE LOAD TYPES (CM/NORMAL, 120/277V, ETC.) SHALL NOT BE IN A SINGLE BOX.
3.4. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

ELECTRICAL PLAN KEYED NOTES

1. PROVIDE (3) 2" CONDUIT AND (1) 1" CONDUIT WITH PULL STINGS FOR FUTURE MECHANICAL EQUIPMENT. ROUTE CONDUIT TIGHT TO CEILING AND TURN UP THROUGH CEILING PATCH ALL PENETRATIONS WATERTIGHT. CAP CONDUIT AT BOTH ENDS FOR FUTURE USE.



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ISSUE DATE: APRIL 21, 2022
COLLINS WEBB #: 21121



ELECTRICAL - FLOOR PLANS

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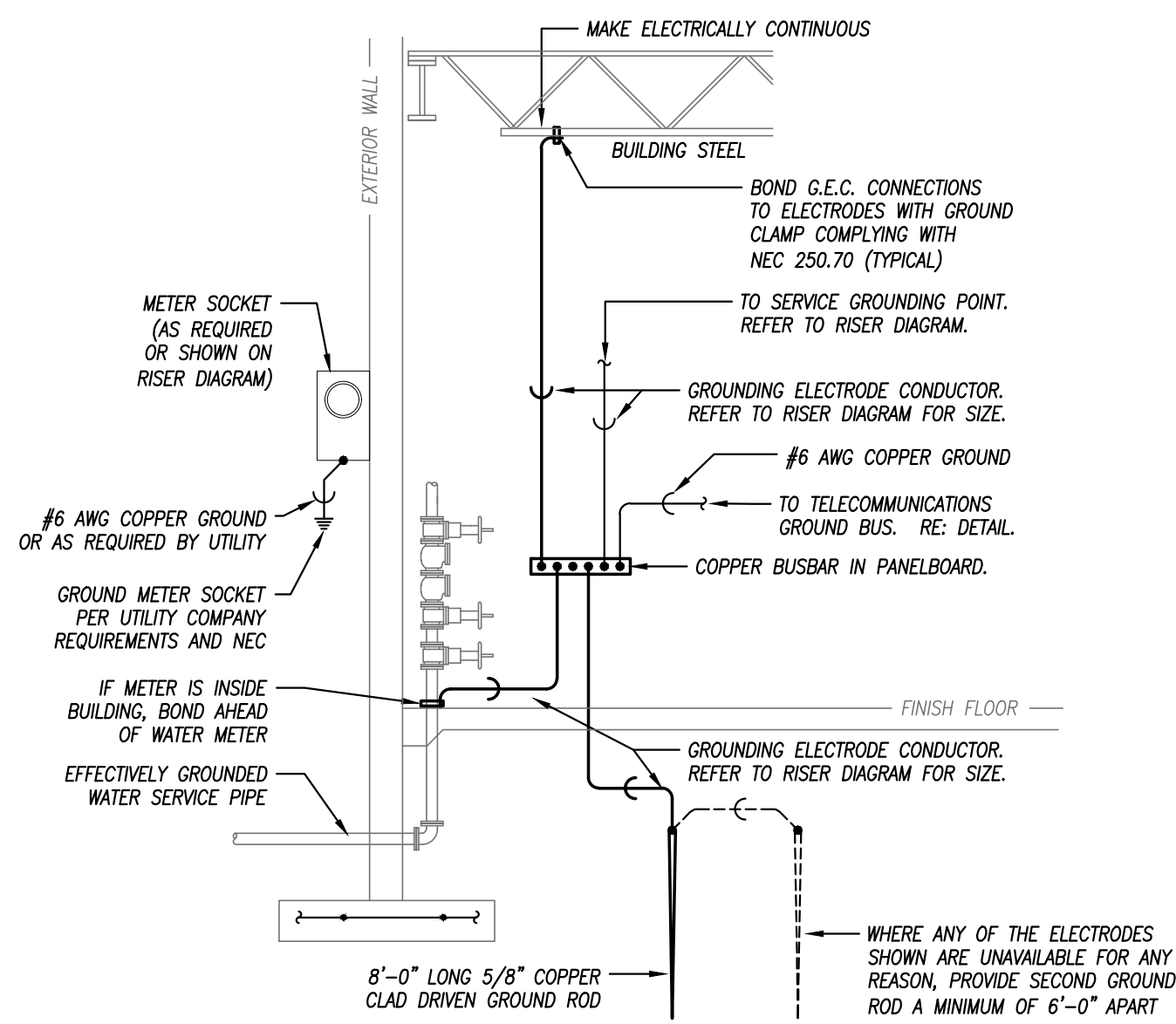
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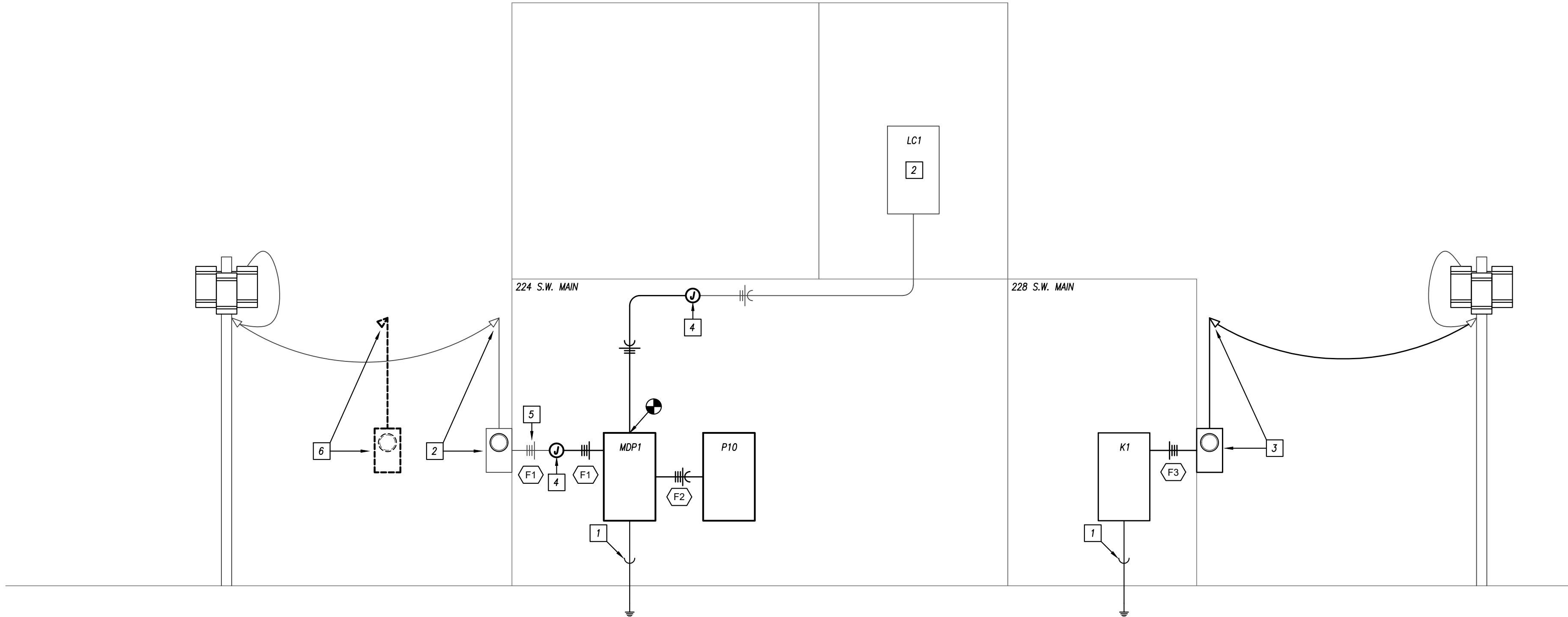
B

A



ELECTRICAL SERVICE GROUNDING DETAIL

NOT TO SCALE



ELECTRICAL RISER DIAGRAM

NOT TO SCALE

SINGLE-SECTION PANELBOARD SCHEDULE											
PANEL DESIGNATION: K1						MAIN LUG AMPS: 400 MAIN BREAKER: 400 VOLTAGE: 208/120 PHASE/WIRE: 3Ø, 4W					
MOUNTING: SURFACE LOCATION: FUTURE TENANT S-100						SCCR RATING (AIC): 22,000					
DESCRIPTION	PHASE			C/B	CIRCUIT #	C/B	TRIP	PHASE			DESCRIPTION
	A	B	C					A	B	C	
LTS: FUTURE TENANT S-100	546	-	-	20	1	20	1	3459	-	-	CONDENSING UNIT CU-3
SPARE	-	-	-	20	1	3	4	3459	-	-	CONDENSING UNIT CU-4
SPARE	-	-	-	20	1	5	6	3459	-	-	CONDENSING UNIT CU-5
SPARE	-	-	-	20	1	7	8	3459	-	-	CONDENSING UNIT CU-6
SPARE	-	-	-	20	1	9	10	3459	-	-	CONDENSING UNIT CU-7
SPARE	-	-	-	20	1	11	12	3459	-	-	CONDENSING UNIT CU-8
SPARE	-	-	-	20	1	13	14	1920	-	-	FURNACE F-3
SPARE	-	-	-	20	1	15	16	1920	-	-	FURNACE F-4
SPARE	-	-	-	20	1	17	18	-	-	-	SPARE
SPARE	-	-	-	20	1	19	20	-	-	-	SPARE
SPARE	-	-	-	20	1	21	22	-	-	-	SPARE
SPARE	-	-	-	20	1	23	24	-	-	-	SPARE
SPARE	-	-	-	20	1	25	26	-	-	-	SPARE
SPARE	-	-	-	20	1	27	28	-	-	-	SPARE
SPARE	-	-	-	20	1	29	30	-	-	-	SPARE
SPARE	-	-	-	20	1	31	32	-	-	-	SPARE
SPARE	-	-	-	20	1	33	34	-	-	-	SPARE
SPARE	-	-	-	20	1	35	36	-	-	-	SPARE
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SPARE	-	-	-	20	1	59	60	-	-	-	SPARE
SPARE	-	-	-	20	1	61	62	-	-	-	SPARE
SPARE	-	-	-	20	1	63	64	-	-	-	SPARE
SPARE	-	-	-	20	1	65	66	-	-	-	SPARE
LARGE SUB-FED BREAKER						3	-	-	-	-	-
TOTALS						546	0	0	8839	8839	8918

PANELBOARD SIZING LOAD			
LOAD DESCRIPTION	CONNECTED	DEMAND	CODE MIN. (VA)
LIGHTS	546	1.25	683
RECEPTACLES	0	10KVA + 50% REST	0
MOTORS	3,840	1.25 x LARGEST + SUM OF REST	4,320
AIR CONDITIONING	20,754	1.00	20,754
SPACE HEATING	0	0.00	0
HEAT PUMP	0	1.00	0
CONTINUOUS	0	1.25	0
NON-CONTINUOUS	0	1.00	0
MISC. LOADS 1	0	1.00	0
SIZING LOAD:		25,757	
SIZING LOAD (AMPS):		71	

CONNECTED PHASE LOADS			
PHASE	VA	AMPS	
A	9,384	78.1	
B	6,836	73.6	
C	6,918	57.6	
TOTALS	25,140	69.8	

REMARKS:
1. EATON POW-R-LINE 1X OR EQUAL.
2. SERVICE ENTRANCE RATED.

EQUIPMENT FAULT CURRENT RATING SCHEDULE					
EQUIPMENT	SCA **	SCCR	NOTES		
DISTRIBUTION PANELBOARD MDP1	11,046	22,000	1,2		
PANELBOARD P10	10,664	22,000	1,2		
PANELBOARD K1	9,924	22,000	1,2		

NOTES:
1. RATING BASED ON AN ASSUMED FAULT AT UTILITY CO. TRANSFORMER OF 38,914A.
2. EQUIPMENT MAY BE SERIES RATED.
** CALCULATIONS PERFORMED USING BUSSMANN POINT-TO-POINT METHOD.

EQUIPMENT FEEDER SCHEDULE							
FEEDER NO.	EQUIPMENT	LOAD (AMPS)	SETS	# OF WIRES	FEEDER SIZE	GROUND MATERIAL	CONDUIT SIZE
F1	DISTRIBUTION PANELBOARD MDP1	174.3	2	4	#3/0	- COPPER	2"
F2	PANELBOARD P10	10.0	1	4	#3/0	#6 COPPER	2"
F3	PANELBOARD K1	71.5	1	4	500 MCW	- COPPER	3-1/2"

DISTRIBUTION PANELBOARD SCHEDULE											
PANEL DESIGNATION: MDP1						MAIN LUG AMPS: 400 MAIN BREAKER: 400 VOLTAGE: 208/120 PHASE/WIRE: 3Ø, 4W					
MOUNTING: SURFACE LOCATION: OFFICE N-100						SCCR RATING (AIC): 22,000					
DESCRIPTION	PHASE			C/B	CIRCUIT #	C/B	TRIP	PHASE			DESCRIPTION
	A	B	C					A	B	C	
CONDENSING UNIT CU-1	2786	-	-	40	3	30	1	2018	-	-	CONDENSING UNIT CU-5
CONDENSING UNIT CU-2	2786	-	-	40	3	30	1	2018	-	-	CONDENSING UNIT CU-6
SPACE	-	-	-	-	1	15	16	3459	-	-	CONDENSING UNIT CU-7
SPACE	-	-	-	-	1	19	20	-	-	-	SPARE
SPACE	-	-	-	-	1	21	22	-	-	-	SPARE
SPACE	-	-	-	-	1	23	24	-	-	-	SPARE
SPACE	-	-	-	-	1	25	26	-	-	-	SPARE
SPACE	-	-	-	-	1	27	28	-	-	-	SPARE
SPACE	-	-	-	-	1	29	30	-	-	-	SPARE
SPACE	-	-	-	-	1	31	32	-	-	-	SPARE
SPACE	-	-	-	-	1	33	34	-	-	-	SPARE
SPACE	-	-	-	-	1	35	36	-	-	-	SPARE
SPACE	-	-	-	-	1	37	38	-	-	-	SPARE
SPACE	-	-	-	-	1	39	40	-	-	-	SPARE
SPACE	-	-	-	-	1	41	42	-	-	-	SPARE
LARGE SUB-FED BREAKER						44	-	1344	-	-	LOAD CENTER LC1
TOTALS						5572	5572	5572	8839	18785	17995

PANELBOARD SIZING LOAD			
LOAD DESCRIPTION	CONNECTED	DEMAND	CODE MIN. (VA)
LIGHTS	168	1.25	210
RECEPTACLES	0	10KVA + 50% REST	0
MOTORS	2,466	1.25 x LARGEST + SUM OF REST	2,760
AIR CONDITIONING	39,201	1.00	39,201
SPACE HEATING	0	0.00	0
HEAT PUMP	0	1.00	0
CONTINUOUS	500	1.25	625
NON-CONTINUOUS	0	1.00	0
MISC. LOADS 1	0	1.00	0
SIZING LOAD:		62,796	
SIZING LOAD (AMPS):		174	

CONNECTED PHASE LOADS			
PHASE	VA	AMPS	
A	14,411	120.0	
B	24,357	202.8	
C	23,567	196.2	
TOTALS	62,335	173.0	

REMARKS:
1. EATON POW-R-LINE 3X OR EQUAL.
2. SERVICE ENTRANCE RATED.

SINGLE-SECTION PANELBOARD SCHEDULE											
PANEL DESIGNATION: P10						MAIN LUG AMPS: 225 MAIN BREAKER: M.L.O. VOLTAGE: 208/120 PHASE/WIRE: 3Ø, 4W					
MOUNTING: SURFACE LOCATION: OFFICE N-100						SCCR RATING (AIC): 22,000					
DESCRIPTION	PHASE			C/B	CIRCUIT #	C/B	TRIP	PHASE			DESCRIPTION
	A	B	C					A	B	C	
LTS: OFFICE N-100	168	-	-	20	1	2	1	1176	-	-	FURNACE F-1
EXHAUST FANS	114	-	-	20	1	3	4	1176	-	-	FURNACE F-2
RECEPT: ROOF	-	-	-	20	1	5	6	500	-	-	WATER HEATER WH-1
SPARE	-	-	-	20	1	7	8	-	-	-	SPARE
SPARE	-	-	-	20	1	9	10	-	-	-	SPARE
SPARE	-	-	-	20	1	11	12	-	-	-	SPARE
SPARE	-	-	-	20	1	13	14	-	-	-	SPARE
SPARE	-	-	-	20	1	15	16	-	-	-	SPARE
SPARE	-	-	-	20	1	17	18	-	-	-	SPARE
SPARE	-	-	-	20	1	19	20	-	-	-	SPARE
SPARE	-	-	-	20	1	21	22	-	-	-	SPARE
SPARE	-	-	-	20	1	23	24	-	-	-	SPARE
SPARE	-	-	-	20	1	25	26	-	-	-	SPARE
SPARE	-	-	-	20	1	27	28	-	-	-	SPARE
SPARE	-	-	-	20	1	29	30	-	-	-	SPARE
SPARE	-	-	-	20	1	31	32	-	-	-	SPARE
SPARE	-	-	-	20	1	33	34	-	-	-	SPARE
SPARE	-	-	-	20	1	35	36	-	-	-	SPARE
SPARE	-	-	-	20	1	37	38	-	-	-	SPARE
SPARE	-	-	-	20	1	39	40	-	-	-	SPARE
SPARE	-	-	-	20	1	41	42	-	-	-	SPARE
TOTALS						168	114	360	1176	1176	500

PANELBOARD SIZING LOAD			
LOAD DESCRIPTION	CONNECTED	DEMAND	CODE MIN. (VA)
LIGHTS	168	1.25	210
RECEPTACLES	360	10KVA + 50% REST	360
MOTORS	2,466	1.25 x LARGEST + SUM OF REST	2,760
AIR CONDITIONING	0	1.00	0
SPACE HEATING	0	0.00	0
HEAT PUMP	0	1.00	0
CONTINUOUS	500	1.25	625
NON-CONTINUOUS	0	1.00	0
MISC. LOADS 1	0	1.00	0
SIZING LOAD:		3,955	
SIZING LOAD (AMPS):		11	

CONNECTED PHASE LOADS			
PHASE	VA	AMPS	
A	1,344	11.2	
B	1,290	10.7	
C	860	7.2	
TOTALS	3,494	9.7	

REMARKS:
1. EATON POW-R-LINE 1X OR EQUAL.

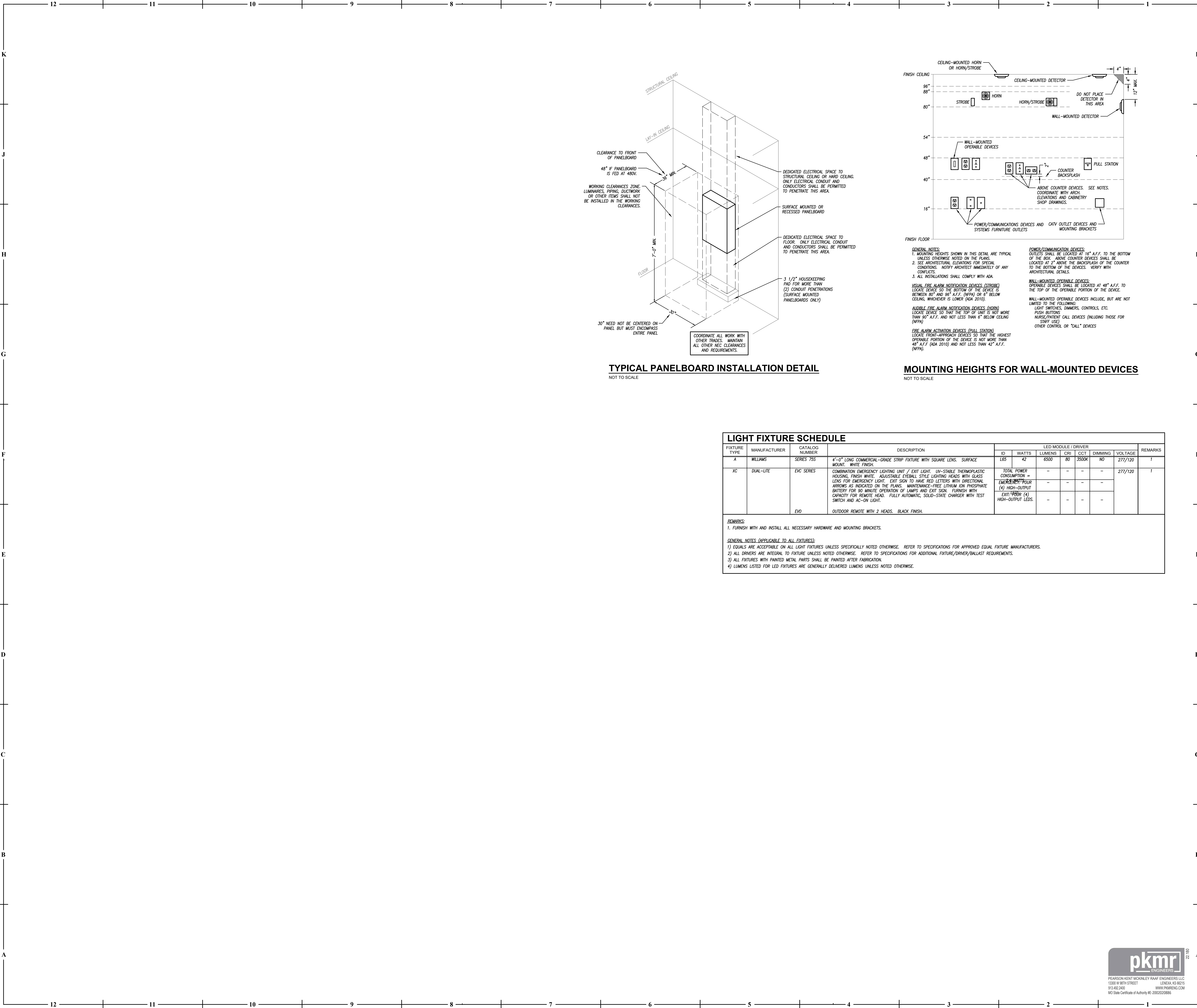


PERKINSON KENT MCKINLEY RAAP ENGINEERS, LLC
1300 W 96TH STREET
913 482 2400 WWW.PKMRNG.COM
MO State Certificate of Authority #E-0000020866

ELECTRICAL - RISER DIAGRAMS



307B SW Market Street, Lee's Summit, Mo. 64083 P: 816.249.2270
(www.collinswebb.com)



TYPICAL PANELBOARD INSTALLATION DETAIL

NOT TO SCALE

MOUNTING HEIGHTS FOR WALL-MOUNTED DEVICES

NOT TO SCALE

LIGHT FIXTURE SCHEDULE

FIXTURE TYPE	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	LED MODULE / DRIVER							REMARKS
				ID	WATTS	LUMENS	CRI	CCT	DIMMING	VOLTAGE	
A	WILLIAMS	SERIES 75S	4'-0" LONG COMMERCIAL-GRADE STRIP FIXTURE WITH SQUARE LENS. SURFACE MOUNT. WHITE FINISH.	L8S	42	6500	80	3500K	NO	277/120	1
XC	DUAL-LITE	EVO SERIES	COMBINATION EMERGENCY LIGHTING UNIT / EXIT LIGHT. UV-STABLE THERMOPLASTIC HOUSING, FINISH WHITE. ADJUSTABLE EYEBALL STYLE LIGHTING HEADS WITH GLASS LENS FOR EMERGENCY LIGHT. EXIT SIGN TO HAVE RED LETTERS WITH DIRECTIONAL ARROWS AS INDICATED ON THE PLANS. MAINTENANCE-FREE LITHIUM ION PHOSPHATE BATTERY FOR 90 MINUTE OPERATION OF LAMPS AND EXIT SIGN. FURNISH WITH CAPACITY FOR REMOTE HEAD. FULLY AUTOMATIC, SOLID-STATE CHARGER WITH TEST SWITCH AND AC-ON LIGHT.	TOTAL POWER CONSUMPTION =							1
				EMERGENCY: FOUR (4) HIGH-OUTPUT							
				EXIT: FOUR (4) HIGH-OUTPUT LEADS							
		EVO	OUTDOOR REMOTE WITH 2 HEADS. BLACK FINISH.								

REMARKS:

1. FURNISH WITH AND INSTALL ALL NECESSARY HARDWARE AND MOUNTING BRACKETS.

GENERAL NOTES (APPLICABLE TO ALL FIXTURES):

1) EQUALS ARE ACCEPTABLE ON ALL LIGHT FIXTURES UNLESS SPECIFICALLY NOTED OTHERWISE. REFER TO SPECIFICATIONS FOR APPROVED EQUAL FIXTURE MANUFACTURERS.

2) ALL DRIVERS ARE INTEGRAL TO FIXTURE UNLESS NOTED OTHERWISE. REFER TO SPECIFICATIONS FOR ADDITIONAL FIXTURE/DRIVER/BALLAST REQUIREMENTS.

3) ALL FIXTURES WITH PAINTED METAL PARTS SHALL BE PAINTED AFTER FABRICATION.

4) LUMENS LISTED FOR LED FIXTURES ARE GENERALLY DELIVERED LUMENS UNLESS NOTED OTHERWISE.



307B SW Market Street, Lee's Summit, Mo. 64063 P: 816.249.2270
(www.collinswebb.com)

MAIN STREET LANDLORD IMPROVEMENTS

230 SW MAIN ST.
LEE'S SUMMIT, MO 64063

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E202

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PEARSON KENT MCKINLEY RAAP ENGINEERS, LLC
1300 W 96TH STREET
913.482.2403
LEWIS, KS 66216
WWW.PKMRNG.COM
MO State Certificate of Authority #E-0000020886

ELECTRICAL - PANELBOARD SCHEDULES