10 NE TUDOR RD LEE'S SUMMIT, MO 64086



	COVER
X-001	COVER SHEET
	GENERAL
G-011	GENERAL INFORMATION
G-021	ACCESSIBILITY GUIDELINES
G-101	LIFE SAFETY PLAN
G-301	PARTITION TYPES
G-401	SPECIFICATIONS
	STRUCTURE
S-001	GENERAL STRUCTURAL NOTES
S-002	LOADING INFORMATION
S-100	STRUCTURAL PLANS AND DETAILS
S-300	FOUNDATION DETAILS
S-400	MASONRY AND FRAMING DETAILS
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# **LEE'S SUMMIT POLICE RENOVATION**

	ARCH SITE	
AS101	SITE PLAN	
AS401	ENLARGED SITE PLANS	
	DEMO	
AD101	DEMO FLOOR PLANS	
AD401	ENLARGED DEMO PLANS	
AD402	ENLARGED DEMO PLAN - COURT	
AD421	DEMO RCP - ENLARGED PLANS	
AD422	DEMO RCP - ENLARGED COURT	

A 101	
A-101	FLOOR PLANS
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A-201	<b>EXTERIOR ELEVATIONS &amp; BUILDING SECTIONS</b>
A-321	WALL SECTIONS & DETAILS - VEHICLE BAY
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AC102	ENLARGED REFLECTED CEILING PLANS
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### PLUMBING PLUMBING LEGEND AND GENERAL NOTES PLUMBING DEMOLITION PLANS PD101 ENLARGED PLUMBING DEMOLITION PLANS PD401 P-121 PLUMBING PLANS P-401 ENLARGED PLUMBING PLANS P-402 ENLARGED PLUMBING PLANS P-601 PLUMBING SCHEDULES, DETAILS, AND RISERS

## HOEFER WELKER

**HW PROJECT NO:** 138191

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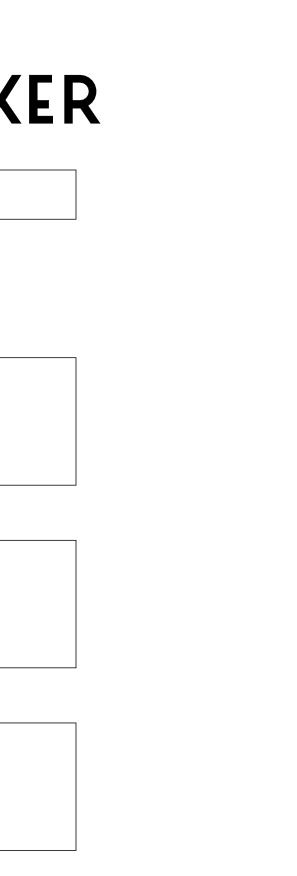
STRUCTURAL ENGINEER J&S STRUCTUREAL ENGINEERS, PA 6640 WEST 143RD STREET #250 OVERLAND PARK, KS 6622 P: 913.549.4701

## NOV. 7, 2024

IG001	MECHANICAL LEGEND AND GENERAL NOTES
ID101	MECHANICAL DEMOLITION PLANS
ID401	ENLARGED HVAC DEMOLITION PLANS
ID402	ENALRGED HVAC DEMOLITION PLANS
I-101	MECHANICAL FLOOR PLANS
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I-501	MECHANICAL DETAILS
I-601	MECHANICAL SCHEDULES
I-621	MECHANICAL CONTROLS

### ELECTRICAL

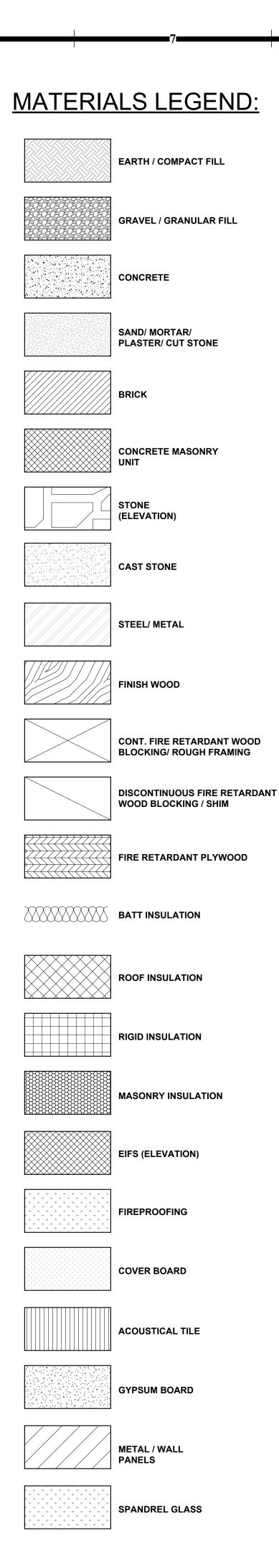
ELECTRICAL LEGEND AND GENERAL NOTES
ELECTRICAL SITE PLAN
ELECTRICAL DEMOLITION PLANS
ENLARGED ELECTRICAL DEMOLITION PLANS
ENLARGED ELECTRICAL DEMOLITION PLANS
ELECTRICAL PLANS
ENLARGED ELECTRICAL PLANS
ENLARGED ELECTRICAL PLANS
PANELBOARD SCHEDULES



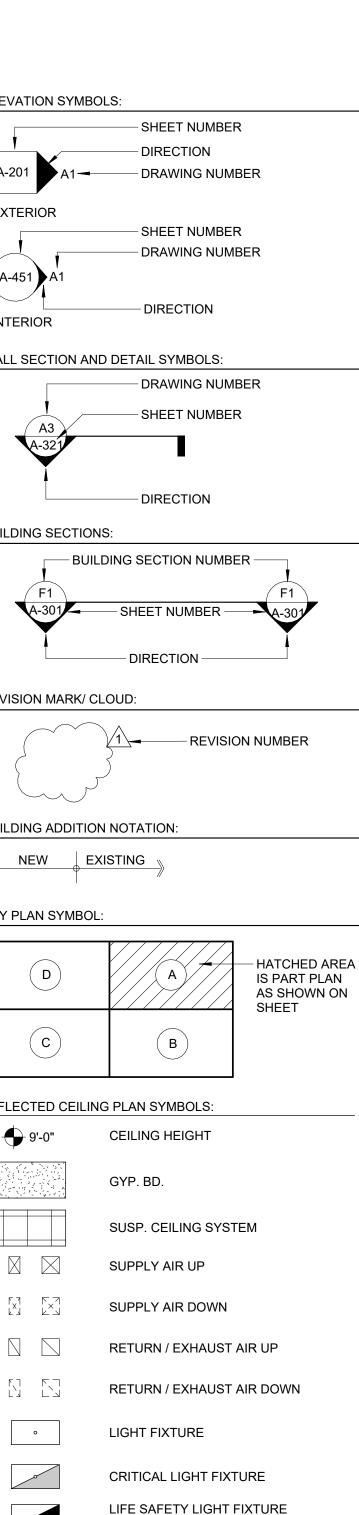
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∕C ∕V COUST		FLG FLR FLUOR FOC	FL FL FA
CP DD DJ	ACOUSTICAL CEILING PANEL AREA DRAIN ADDENDUM ADJUSTABLE / ADJACENT	FOF FOG FOM FOS	FA FA FA FA
FF HJ HU LT	ABOVE FINISH FLOOR AUTHORITIES HAVING JURISDICTION AIR HANDLING UNIT ALTERNATE	FR FRM FS FT	FI FF FL FL
	ALUMINUM ANODIZED ACCESS PANEL ARCH PRECAST CONCRETE	FT FTG FURR FUT	FC FC FL FL
PPROX RCH ITEN JTO VG		FV FVC FVT FX FZ	FI FI VI FI TE
D T _DG	BOARD BITUMINOUS BUILDING	GA GALV GB	G/ G/ GI
_K _KG M ⊃	BLOCK BLOCKING BENCHMARK / BEAM BOTTOM OF	GC GFRC GL GOVT	GI GI GI G(
DC DT R RG	BACK OF CURB BOTTOM RESILIENT BASE BEARING	GPM GYP	G/ G`
RK RKT SMT	BRICK BRACKET BASEMENT	HB HC HD	HO HO HE
T TWN V VL	TILE BASE BETWEEN INTEGRAL COVED BASE BEVELED	HDBD HDR HDW HDWD	H/ HE H/ H/
A	BOTH WAYS ACOUSTICAL CEILING TILE	HK HM HORIZ HPT	H H H H
AB AP B CTV	CABINET CAPACITY CATCH BASIN CLOSED CIRCUIT TV	HR HS HT HTG	H( HI HI HI
E F FM G	PAINTED GYP CEILING - EPOXY CUBIC FEET CUBIC FEET PER MINUTE CORNER GUARD	HTR HVAC HW	HI C( H(
I IP J L	CAST IRON CAST IN PLACE CONTROL JOINT CENTERLINE	ID	H(  IN
LG LOS LR M	CEILING CLOSET CLEAR / CLEARANCE CENTIMETER	IN INCAND INCL INFO	IN IN IN IN
MP MU O OL	CORRUGATED METAL PIPE CONCRETE MANSONRY UNIT (S) CLEAN OUT COLUMN	INST INSUL INT INV	IN IN IN IN
OMB ONC ONN ONST	COMBINATION CONCRETE CONNECTION CONSTRUCT / CONSTRUCTION	JAN JB	JA JL
ont ontr oord orr	CONTINUOUS CONTRACTOR COORDINATE CORRIDOR	JC JST JT	AL JC JC
P P S SMT	CONCRETE PIPE PAINTED GYP CEILING COUNTERSINK CASEMENT	KIT KP	KI KI
TR U W	COUNTER CUBIC COLD WATER	L LAB LAV LBS	LC LA LA P(
BL EMO EPT F	DOUBLE DEMOLISH / DEMOLITION DEPARTMENT DRINKING FOUNTAIN	LF LH LLH LLV	LII LE LC
H IA IAG	DOUBLE HUNG DIAMETER DIAGONAL	LPT LRG LT(G) LVR	LC LA LI LC
IM ISP MT N	DIMENSION DISPENSER DEMOUNTABLE DOWN	LWC	LI  MI
R S TL WG	DOOR DOWNSPOUT DETAIL DRAWING	MAS MAX MBR MECH	M M M
۹ =	EAST EACH EXHAUST FAN	MEON MED MEMB MFG MFR	M M M
J - _AST	EXPANSION JOINT ELEVATION ELASTOMERIC	MH MIN MISC ML	M M M Pl
_EC _EV MERG >	ELECTRICAL ELEVATOR EMERGENCY ELECTRICAL PANELBOARD	MN MO MOD	N/ M/ M
Q QUIP SC ST	EQUAL EQUIPMENT ESCALATOR ESTIMATE	MS MTD MTG MTL	SC M M M
TR WC XH XIST	EXISTING TO REMAIN ELECTRIC WATER COOLER EXHAUST EXISTING	MULL	M  N(
XP XT A	EXPANSION / EXPANDED EXTERIOR  FIRE ALARM	N/A NIC NO NOM NRC	
4B 3 30 C	FABRICATE FACE BRICK FURNISHED BY OWNER CARPET	NTS OC	N(  OI
CT D DN DV E	VINYL COMPOSITION TILE FLOOR DRAIN FOUNDATION FIRE DEPARTMENT VALVE FIRE EXTINGUISHER AND BRACKET	OD OH OPNG OPP ORD	0 0 0 0 0 0
EC = =&E =E	FIRE EXTINGUISHER CABINET FINISH FLOOR FIXTURES / FURNITURE / EQUIPMENT FINISH FLOOR ELEVATION	OZ PA DB	01  Pl
H HC N XT	FIRE HYDRANT FIRE HOSE CABINET FINISH / FINISHED FIXTURE	PB PC PERF PERM	PA Pf Pf Pf

	ABBREVIATIONS		ABBREVIATIONS
	FLASHING FLOOR	PERP PL	PERPENDICULAR PLATE / PROPERTY LINE
	FLUORESCENT	PLAS	
		PLUMB	
	FACE OF FINISH FACE OF GYPSUM BOARD / WALL	PLYWD PNL	PLYWOOD PANEL
	FACE OF MASONRY	POLY	
	FACE OF STUDS		PREFABRICATE (D)
	FIRE RESISTANT FRAME (D), (ING)	PREFIN PRELIM	PREFINISHED PRELIMINARY
F	FLOOR SINK	PREP	( <i>'</i>
	FLOOR TILE FOOT / FEET	PROJ PSF	PROJECT POUNDS PER SQUARE FOOT
	FOOTING	PSI	POUNDS PER SQUARE FOOT
	FURRING	PT	PAINT; PRESSURE TREATED
	FUTURE FIELD VERIFY	PTD PVC	PAINTED POLYVINYL CHLORIDE
F	FIRE VALVE CABINET		PAVEMENT
	VINYL TILE FINISHED CONCRETE		
٦	TERRAZZO	QTY	QUANTITY
	GAUGE GALVANIZED	R R/W	RISER / RADIUS / REVERSED
	GRAB BAR	R/W RA	RETURN AIR
	GENERAL CONTRACTOR	RCP	REFLECTED CEILING PLAN
	GLASS FIBER REINF CONC GLASS / GLAZING	RD RE	ROOF DRAIN REFERENCE / REFER TO
(	GOVERNMENT	( )	RECEIVE (D)
	GALLON PER MINUTE GYPSUM	REF REINF	REFRIGERATOR REINFORCE (D), (ING)
		REQD	REQUIRED
-	HOSE BIBB	REQMT REV	REQUIREMENT REVISED / REVISION
	HOLLOW CORE	RFG	ROOFING
		RH RM	RIGHT HAND
	HARDBOARD HEADER	RM RO	ROOM ROUGH OPENING
F	HARDWARE	RTU	ROOF TOP UNIT
	HARDWOOD HOOK		
ŀ	HOLLOW METAL	S	SOUTH
	HORIZONTAL HIGH POINT	SA SAN	ACOUSTICAL WALL PANEL SANITARY SEWER
	HIGH POINT HOUR	SAN SC	SANITARY SEWER SOLID CORE
ŀ	HIGH STRENGTH	SCH	SCHEDULE
	HEIGHT HEATING	SCN SECT	SCREEN SECTION
H	HEATER	SF	SQUARE FOOT (SQ FT)
	HEATING VENTING AIR CONDITIONING	SHM SHT	SECURITY HOLLOW METAL SHEET
H	HOT WATER	SIM	SIMILAR
F	HOT WATER HEATER	SOF	SPRAY-ON FIREPROOFING
-		SOG SP	SLAB ON GRADE TOILET PARTITION
		SP HD	SPRINKLER HEAD
	NCH NCANDESCENT	SPEC SPKR	SPECIFICATION (S) SPEAKER
I	NCLUDE (D), (ING)	SQ	SQUARE
	NFORMATION INSTALL / INSTALLATION	SS SS	STAINLESS STEEL
	INSULATE / INSULATION	SS STC	SILLS SOUND TRANSM COEFFICIE
	NTERIOR	STD	STANDARD
I	NVERT	STG STL	SEATING STEEL
-		STOR	
	JANITOR JUNCTION BOX	STRUCT SUBFLR	
	JANITOR CLOSET	SUSP	SUSPENDED
	JOIST JOINT	SW SWGR	WINDOW TREATMENTS SWITCH GEAR
		SYGN	SQUARE YARD (SQ YD)
	KITCHEN KICK PLATE	SYM SYS	
r -		т	TREAD
	LONG / LENGTH	T&B	TOP & BOTTOM
	LABORATORY LAVATORY	T&G TEL	TONGUE & GROOVE TELEPHONE
F	POUNDS	TEMP	
		THK	THICK (NESS)
	LEFT HAND LONG LEG HORIZONTAL	THRU TKBD	THROUGH TACKBOARD
	LONG LEG VERTICAL	TO	TOP OF
	LOW POINT LARGE	TOC TOD	TOP OF CURB / CONCRETE TOP OF DECK
	LIGHT(ING)	TOD	TOP OF DECK
	LOUVER LIGHTWEIGHT CONCRETE	TOP	TOP OF PARAPET
L	LOT VONULLE	TOS TOW	TOP OF STEEL TOP OF WALL
-		TRANSF	TRANSFORMER
	METER (S) MASONRY	TRANSM TV	TRANSMISSION TELEVISION
Ν	MAXIMUM	TYP	TYPICAL
	MEMBER MECHANICAL		
Ν	MEDIUM	UH	UNIT HEATER
	MEMBRANE MANUFACTURING	UNFIN UNO	
Ν	MANUFACTURER	UNU	
	MANHOLE MINIMUM		
Ν	MISCELLANEOUS	VB VERT	VAPOR BARRIER (VPR BR) VERTICAL
	PLASTIC LAMINATE MILLWORK NATURAL STONE COUNTERTOPS	VEST	VESTIBULE
	MASONRY OPENING	VIF VTR	VERIFY IN FIELD VENT THROUGH ROOF
	MODULAR		
	SOLID SURFACE COUNTERTOPS MOUNTED		
P P	MOUNTING	W	WEST, WIDTH, WIDE, WATER
Ν	METAL MULLION	W/ W/IN	WITH WITHIN
N		W/O	WITHOUT
N		WC WD	WATER CLOSET
N N N	 NORTH	VVI 1	WOOD WALL PAINT - EPOXY
N N - N	NORTH NOT APPLICABLE	WE	WALL HYDRANT
N N - N	NOT APPLICABLE NOT IN CONTRACT	WE WH	
א א ר ר	NOT APPLICABLE	WE WH WNDW	WINDOW
N N N N N N N N N N	NOT APPLICABLE NOT IN CONTRACT NUMBER NOMINAL NOISE REDUCTION COEFFICIENT	WE WH WNDW WP WR	WINDOW WALL PAINT WATER RESISTENT
N N N N N N N N N N N	NOT APPLICABLE NOT IN CONTRACT NUMBER NOMINAL	WE WH WNDW WP WR WT	WINDOW WALL PAINT WATER RESISTENT WALL TILE, WEIGHT
N N N N N N N N N N N N N N N N N N N N	NOT APPLICABLE NOT IN CONTRACT NUMBER NOMINAL NOISE REDUCTION COEFFICIENT	WE WH WNDW WP WR	WINDOW WALL PAINT WATER RESISTENT
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א א א א א א א א א א א א א א א א א א א א	NOT APPLICABLE NOT IN CONTRACT NUMBER NOMINAL NOISE REDUCTION COEFFICIENT NOT TO SCALE	WE WH WNDW WP WR WT WV	WINDOW WALL PAINT WATER RESISTENT WALL TILE, WEIGHT WALL COVERING
א א א ה יישר איד יישר איד איד איד איד איד איד איד איד איד איד	NOT APPLICABLE NOT IN CONTRACT NUMBER NOMINAL NOISE REDUCTION COEFFICIENT NOT TO SCALE ON CENTER OUTSIDE DIAMETER OVERHEAD / OPPOSITE HAND OPENING	WE WH WNDW WP WR WT WV	WINDOW WALL PAINT WATER RESISTENT WALL TILE, WEIGHT WALL COVERING
א א א ה יייייייייייייייייייייייייייייייי	NOT APPLICABLE NOT IN CONTRACT NUMBER NOMINAL NOISE REDUCTION COEFFICIENT NOT TO SCALE ON CENTER OUTSIDE DIAMETER OVERHEAD / OPPOSITE HAND OPENING OPPOSITE	WE WH WNDW WR WT WV YD MISC &	WINDOW WALL PAINT WATER RESISTENT WALL TILE, WEIGHT WALL COVERING YARD 
N N N N N N N N N N N N N N N N N N N	NOT APPLICABLE NOT IN CONTRACT NUMBER NOMINAL NOISE REDUCTION COEFFICIENT NOT TO SCALE ON CENTER OUTSIDE DIAMETER OVERHEAD / OPPOSITE HAND OPENING	WE WH WNDW WP WR WT WV YD MISC	WINDOW WALL PAINT WATER RESISTENT WALL TILE, WEIGHT WALL COVERING YARD
М М М М М М М М М М М М М М М М М М М	NOT APPLICABLE NOT IN CONTRACT NUMBER NOMINAL NOISE REDUCTION COEFFICIENT NOT TO SCALE ON CENTER OUTSIDE DIAMETER OVERHEAD / OPPOSITE HAND OPPOSITE OVERFLOW ROOF DRAIN	WE WH WNDW WR WT WV YD MISC &	WINDOW WALL PAINT WATER RESISTENT WALL TILE, WEIGHT WALL COVERING YARD 
	NOT APPLICABLE NOT IN CONTRACT NUMBER NOMINAL NOISE REDUCTION COEFFICIENT NOT TO SCALE ON CENTER OUTSIDE DIAMETER OVERHEAD / OPPOSITE HAND OPPOSITE OVERFLOW ROOF DRAIN OUNCE	WE WH WNDW WR WT WV YD MISC &	WINDOW WALL PAINT WATER RESISTENT WALL TILE, WEIGHT WALL COVERING YARD 
	NOT APPLICABLE NOT IN CONTRACT NUMBER NOMINAL NOISE REDUCTION COEFFICIENT NOT TO SCALE ON CENTER OUTSIDE DIAMETER OVERHEAD / OPPOSITE HAND OPPOSITE OVERFLOW ROOF DRAIN OUNCE	WE WH WNDW WR WT WV YD MISC &	WINDOW WALL PAINT WATER RESISTENT WALL TILE, WEIGHT WALL COVERING YARD 



G- (GENERAL)		E / EQUIPMENT)	ELEVATION S
C- (CIVIL) L- (LANDSCAPE)		;) IT FOOD SERVICE)	
S- (STRUCTURAL)	QH (EQUIPMEN	IT HOSPITAL)	A-201
,	SITE) P- (PLUMBING M- (MECHANIC	,	EXTERIOR
A- (ARCHITECTURAL	E- (ELECTRIC	AL)	
AC (ARCHITECTURAL AI (ARCHITECTURAL	CEILINGS) T- (TECHNOL( FINISHES)	)GY)	A-451 A1
SHEET NUMBER:			
	CONSTRUCTION PREFIX (I DISCIPLINE DESIGNATOR	)1-) IF USED	INTERIOR
	SHEET TYPE DESIGNATOR	R (10)	WALL SECTION
	PART PLAN DESIGNATOR	(B) IF USED	
<b>I I I I I I I I I I</b>			A3
ROOM NAME/NUMBER			A-321
		• •	
B-206A -	- SUB ROOM NUMBER (06	A)	
	- ROOM NUMBER (06) - FLOOR LEVEL (2)		BUILDING SE
	- AREA (B) IF USED		Ţ
		NUMBER	F1
ļ ,			A-301
RE: A6/ A-401			<b>A</b>
ROOM FINISH TAG KE			REVISION MA
	<b>RM NAME</b> 000		
	FLOOR FINISH WALL BASE WALL FINISH		$\left\{ \right\}$
	WALL FINISH CEILING FINISH REMARKS		$\bigvee$
SYMBOLS:	· · · ·		BUILDING AD
			NEW
	NORTH ARROW SYMBOI	-	N.
	BREAK LINE		KEY PLAN SY
$(\mathbf{A})$	STRUCTURAL GRID BUB		D
A	EXISTING STRUCTURAL GRID BUBBLE		
$\bullet$	ELEVATION MARK		C
FE	FIRE HYDRANT		REFLECTED
	FIRE EXTINGUISHER		
EFEC	EXISTING FIRE EXTINGU & CABINET	ISHER	9-0
FEC	FIRE EXTINGUISHER & C	ABINET	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
FD	FLOOR DRAIN		
	ROOF DRAIN		
	OVERFLOW ROOF DRAI	N	$\boxtimes$
$(\circ)$		•	
WP1	WALL FINISH TYPE		
(22.22G)	MATERIAL KEYNOTE		
(WP1)	MILLWORK FINISH TYPE		
NOTE TAGS:			o
(12) -	- SHEET NOTE NUMBER		
(24) -	- DEMOLITION NOTE NUM	BER	0
<u>(4)</u>	- FIXTURE ACCESSORY N	UMBER	
DETAILS:			
			o
		1BER	
			$\frown$
A-501	- SHEET NUMBE	R	-
DOOR SYMBOLS:			$\overline{\otimes}$ $\overline{\otimes}$
DOOR STINDOLS.		- DOOR NO.	
101-A	101-A		
NEW DOOR			
		REMOVED	
WALL SYMBOLS:		<u> </u>	
NEW WALL	EXISTING WALL DE	 MO WALL	L
	AME TYPES/ WINDOW TY	PES/	
LOUVER T	PES/GLASS TYPES:		
	(F1, F2, F3, ETC)		
A2 -	WINDOW NUMBER SY (A-Z; AA, AB - AZ; BA, E		
(L2) -		·	
$\sim$	(L1, L2, L3,)		
(14)	— GLASS TYPES		
CASEWORK SYMBOLS			
	CABINET TYPE.		
	CABINET DEPTH.		
	- CABINET TYPE.		
	L CABINET DEPTH. L CABINETS, TALL CABINI	ETS,	
	ISTABLE SHELVES, LOCKI		
WALL TYPE INDICATO	R		
	PE LEGEND ON G-301		
MATCH LINE:			
	۵۸	RT A	
	^ D	RT B	



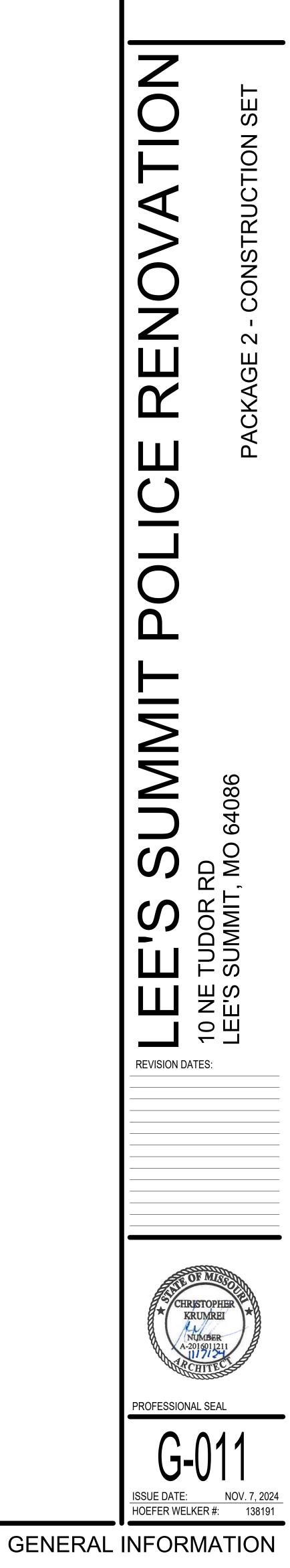
### **GENERAL INFORMATION NOTES:**

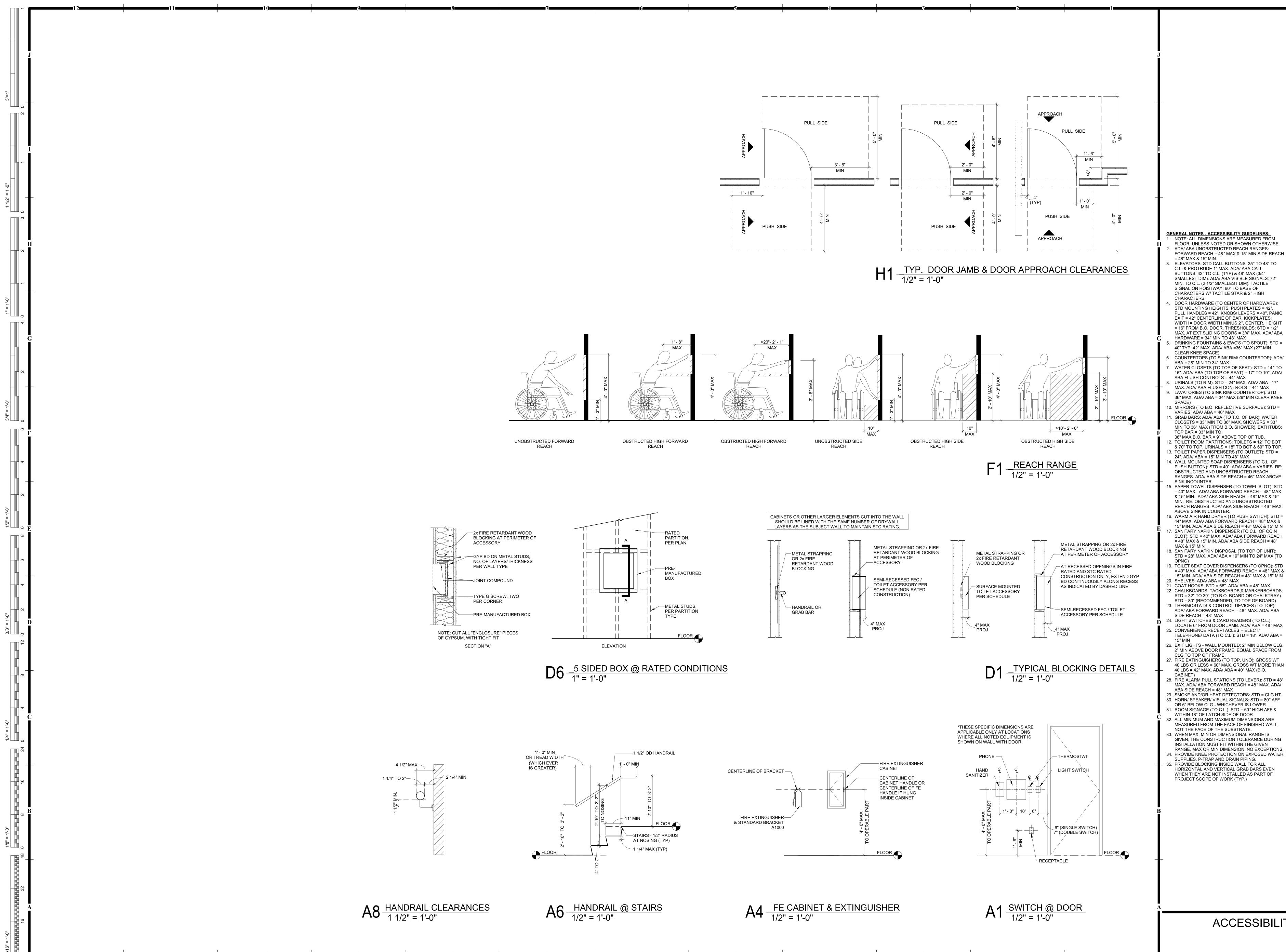
1. ALL CONTRACTORS AND THEIR SUPERVISORY PERSONNEL SHALL REVIEW THE GENERAL ANDSUPPLEMENTARY CONDITIONS TO THE CONTRACT.

- 2. ALL WORK SHALL CONFORM WITH APPLICABLE BUILDING CODES, REGULATIONS AND ORDINANCES.
- 3. CONTRACTOR SHALL OBTAIN ALL REQUIRED BUILDING AND OCCUPANCY PERMITS. 4. CONTRACTOR SHALL BECOME FULLY ACQUAINTED WITH CONDITIONS RELATED TO THE WORK. 5. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE MEANS, METHODS, AND SEQUENCES OF CONSTRUCTION AND THE SAFETY OF ALL CONSTRUCTION PERSONNEL AND VISITORS. 6. DRAWINGS CONTAINED IN THIS SET SHALL NOT BE REPRODUCED FOR SHOP DRAWINGS. COPIES OF THESE DRAWINGS SUBMITTED AS SHOP DRAWINGS WILL BE REJECTED AND RETURNED TO
- THE CONTRACTOR. 7. EACH INSTALLER MUST EXAMINE SUBSTRATE AND/OR CONDITIONS UNDER WHICH THE WORK WILL BE INSTALLED AND REPORT TO THE CONTRACTOR IN WRITING ANY CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY EXECUTION OF THAT INSTALLERS WORK. DO NOT PROCEED UNTIL UNSATISFACTORY CONDITIONS ARE CORRECTED. COMMENCING WITH INSTALLATION SHALL CONSTITUTE ACCEPTANCE OF THE SUBSTRATE AND/OR CONDITIONS. 8. DO NOT SCALE DRAWINGS: FOLLOW WRITTEN DIMENSIONS AND NOTES. CONTACT ARCHITECT
- FOR CLARIFICATIONS, IF REQUIRED. 9. DIMENSIONS SHOWN ON THE FLOOR PLAN ARE TO THE FACE OF MASONRY (FOM), FACE OF CONCRETE WALLS (FOC), AND COLUMN GRID LINES, UNLESS NOTED OR SHOWN OTHERWISE. 10. FOR METAL STUD CONSTRUCTION DIMENSIONS SHOWN ON THE FLOOR PLAN ARE TO THE FACE OF GYP. BOARD/ WALL (FOG), UNLESS NOTED OR SHOWN OTHERWISE.
- 11. FOR WOOD CONSTRUCTION, DIMENSIONS SHOWN ON THE FLOOR PLAN ARE TO THE FACE OF STUD (FOS), UNLESS NOTED OR SHOWN OTHERWISE. 12. NOTE: ALL WALL THICKNESSES ARE ACTUAL DIMENSIONS. 13. "TYPICAL", AS USED IN THESE DOCUMENTS, SHALL MEAN THAT THE CONDITION OR DIMENSION IS REPRESENTATIVE OF, OR THE SAME, FOR SIMILAR CONDITIONS THROUGHOUT. 14. IF THERE IS A DISCREPANCY BETWEEN SMALL SCALE AND LARGE SCALE DRAWINGS, (PLAN, SECTION, & DETAIL DRAWINGS, ETC.) - CONTACT ARCHITECT FOR CLARIFICATION. FOR BIDDING PURPOSES: THE MOST EXPENSIVE AND/OR STRICTEST REQUIREMENTS SHALL GOVERN. FOR
- CLARIFICATIONS DURING CONSTRUCTION: THE MOST EXPENSIVE AND/OR STRICTEST REQUIREMENTS, AS INDICATED BY THE ARCHITECT, SHALL GOVERN. 15. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND SPECIFICATIONS - CONTACT ARCHITECT FOR CLARIFICATION. FOR BIDDING PURPOSES: THE MOST EXPENSIVE AND/OR STRICTEST REQUIREMENTS SHALL GOVERN. FOR CLARIFICATIONS DURING CONSTRUCTION: THE MOST EXPENSIVE AND/OR STRICTEST REQUIREMENTS, AS INDICATED BY THE ARCHITECT, SHALL
- GOVERN. 16. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND ACTUAL CONDITIONS SHALL BE REPORTED TO THE ARCHITECT IN WRITING FOR RESOLUTION, PRIOR TO PROCEEDING WITH THE WORK. 17. ANY AND ALL DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT IN WRITING FOR RESOLUTION, PRIOR TO PROCEEDING WITH THE WORK. IN THESE INSTANCES: NO CHANGE ORDERS OR EXTENSIONS OF TIME WILL BE ALLOWED OR ACCEPTED FOR PROCEEDING WITH THE WORK WITHOUT THE ARCHITECT'S WRITTEN DIRECTION AND APPROVAL. ALSO -CONTRACTOR MUST REPAIR AND/OR REPLACE ANY UNAUTHORIZED WORK, AS INDICATED BY THE ARCHITECT, AT NO ADDITIONAL COST TO THE OWNER.
- 18. ALL DISSIMILAR METAL MATERIALS SHALL BE ISOLATED WITH AN APPROVED NONMETAL ISOLATION MATERIAL. 19. OPEN EXTERIOR JOINTS AROUND WINDOW AND DOOR FRAMES, BETWEEN WALLS AND FOUNDATIONS, BETWEEN WALL PANELS, AND AT PENETRATIONS OF UTILITIES THROUGH THE BUILDING ENVELOPE, ETC. – SHALL BE SEALED, CAULKED, FLASHED OR WEATHER-STRIPPED AS
- REQUIRED FOR COMPATIBILITY WITH ADJACENT MATERIALS & TO ELIMINATE AIR LEAKAGE AND WATER ENTRY. 20. PROVIDE SEALANT AND/OR CAULKING BETWEEN DISSIMILAR ADJOINING INTERIOR MATERIALS. (I.E. WINDOW SILLS TO GYP. BD., ACT CEILINGS TO MASONRY WALLS, ETC.) 21. DOOR OPENINGS NOT LOCATED BY DIMENSION SHALL BE CENTERED IN WALL SHOWN OR
- LOCATED 4 INCHES FROM FINISH WALL TO EDGE OF DOOR FRAME, ALWAYS ALLOWING A MINIMUM OF 18" FROM THE PULL SIDE OF THE DOOR TO THE INTERSECTING WALL. 22. CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES AND THEIR SERVICE CONNECTIONS WITH THE PROPER UTILITY COMPANY.
- 23. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE FINAL SIZE AND DEPTH OF THE ELEVATOR PIT, SHAFT, RAIL SUPPORT, HOIST SUPPORT, OVERRUN AND MISC. ELEVATOR REQUIREMENTS WITH THE SELECTED ELEVATOR MANUFACTURER/ SUPPLIER. 24. CONTRACTOR SHALL COORDINATE SIZE, LOCATIONS AND NUMBER OF ALL ROOF OPENINGS AND
- ROOF ACCESSORIES WITH ALL OTHER TRADES. REFER TO THE ARCHITECTURAL, STRUCTURAL, PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS. 25. LOCATIONS AND SIZES OF ALL CONCRETE MECHANICAL AND ELECTRICAL PADS SHALL BE COORDINATED BY THE MECHANICAL AND ELECTRICAL CONTRACTORS, WITH THE SELECTED EQUIPMENT MANUFACTURER/SUPPLIER; AND ARE TO BE APPROVED BY THE ARCHITECT PRIOR
- TO PROCEEDING WITH THE WORK. 26. EXCEPT AT FIRE-RATED PARTITIONS, ALL WALL AND COLUMN GYPSUM BOARD FACING SHALL BE HELD AT 5/8 INCH BELOW STRUCTURE, UNLESS DETAILED OR NOTED OTHERWISE. 27. AT ALL TELECOMMUNICATION ROOMS: PROVIDE 3/4" X 8'-0" HIGH FIRE-RETARDANT-TREATED WOOD SHEATHING OR PROVIDE PLYWOOD OVER NON-COMBUSTIBLE SHEATHING; BOTTOM TO
- BE LOCATED AT 4" A.F.F. VERIFY LENGTHS AND LOCATIONS WITH ELECTRICAL DRAWINGS. 28. GLASS DOORS, ADJACENT PANELS AND ALL GLAZED OPENINGS WITHIN 1'-6" OF THE FLOOR, AND WITHIN A 24-INCH ARC OF EITHER VERTICAL EDGE OF A DOOR, ETC., SHALL BE SAFETY GLAZING AS APPROVED FOR IMPACT BY APPLICABLE BUILDING CODES, AND SHALL BE LABELED AS SUCH. 29. ALL CEILING HEIGHTS AS SHOWN ON PLANS AND DETAILS ARE FROM SLAB OR TILE FLOOR
- (FINISHED FLOOR) TO FINISH CEILING. 30. PROVIDE INDEPENDENT FRAMING & ATTACHMENTS TO THE STRUCTURE – ADEQUATE TO SUPPORT THE CEILING SYSTEM, LIGHT FIXTURES, DUCTS, DIFFUSERS, SPRINKLER PIPING AND
- BUS DUCTS. 31. ALL CLOSETS AND ALCOVES WITHOUT A SPACE IDENTIFICATION NUMBER SHALL HAVE THE SAME FINISHES AS ADJOINING SPACES. 32. CONTRACTOR TO INSTALL WOOD BLOCKING AND PLYWOOD AS REQUIRED FOR THE MOUNTING
- OF ALL TOILET ACCESSORIES, MILLWORK/ CASEWORK, AV EQUIPMENT, AND MEP ITEMS, ETC. 33. RE: SPECIFICATIONS FOR ALL REQUIRED TESTING AND INSPECTIONS. 34. ANY/ ALL PROPRIETARY PRODUCTS DESCRIBED AND/OR DRAWN IN THE DOCUMENTS (BUT NOT SPECIFIED) ARE TO MEET THE MANUFACTURER'S STANDARD CRITERIA WHICH IS NOT LIMITED TO THE FOLLOWING: PERFORMANCE REQUIREMENTS, QUALITY ASSURANCE REQUIREMENTS, APPLICABLE CODES AND INDUSTRY STANDARDS, FABRICATION, ASSEMBLY, HANDLING, DELIVERY, STORAGE, INSTALLATION, OPERATION, ADJUSTMENTS, ETC. PROVIDE THE MANUFACTURER'S STANDARD WARRANTY AND STANDARD FINISH WARRANTY. PROVIDE PRODUCT DATA, SHOP DRAWINGS, SAMPLES, AND MAINTENANCE DATA AS REQUIRED. REFER TO DIVISION 01 SPEC. SECTIONS WHICH ALSO APPLY - SUCH AS SUBSTITUTION PROCEDURES, SUBMITTAL PROCEDURES, QUALITY REQUIREMENTS, REFERENCES, EXECUTION, AND CLOSEOUT PROCEDURES. NOTE: ANY SUBSTITUTIONS MUST MEET THE DESIGN INTENT, AS WELL AS THE

CRITERIA DESCRIBED ABOVE.

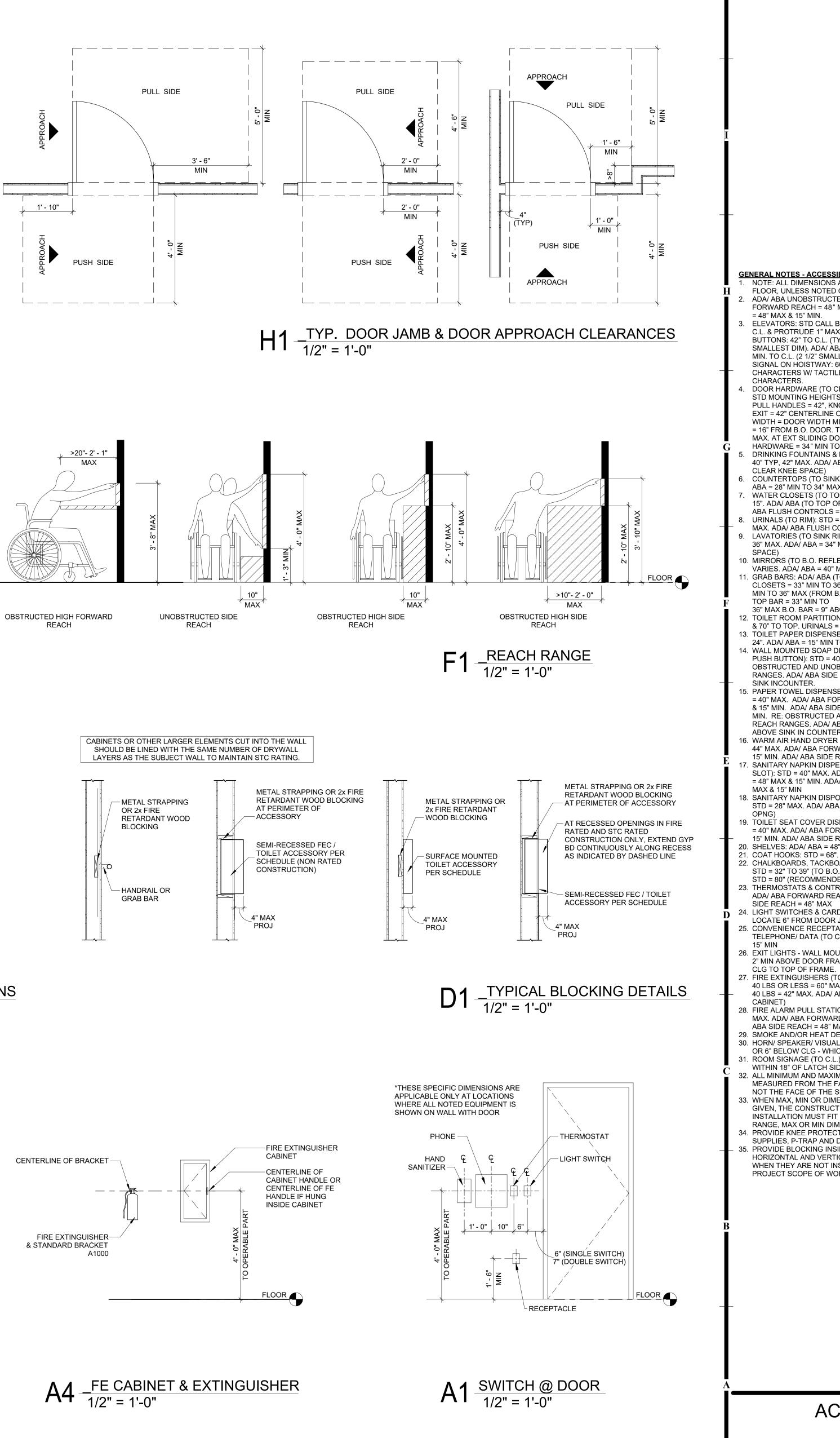
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- 2'X2' LAY-IN CEILING
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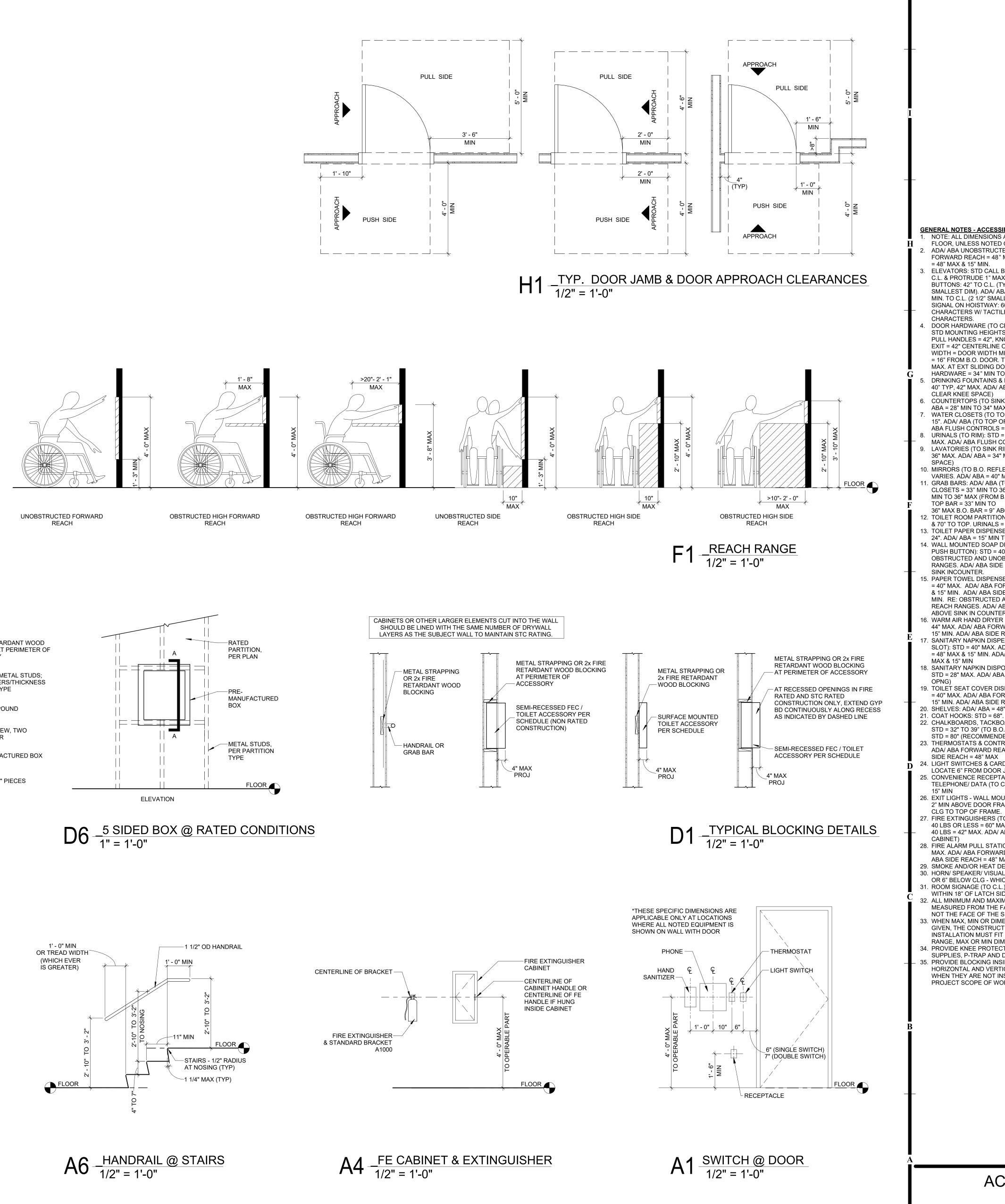




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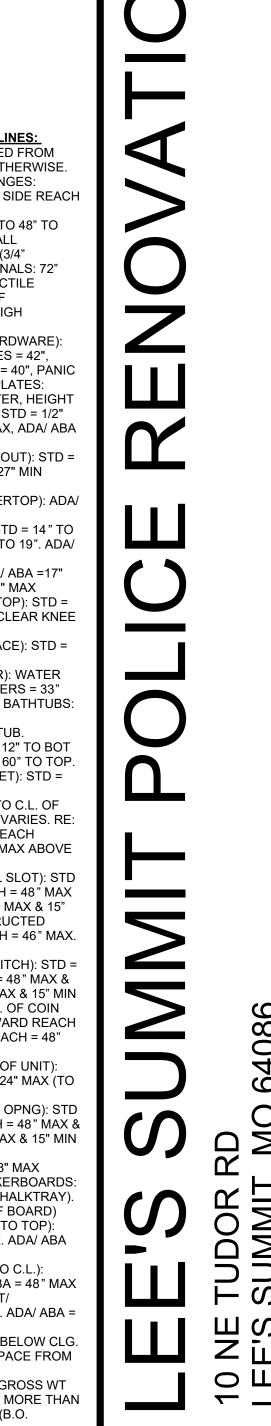
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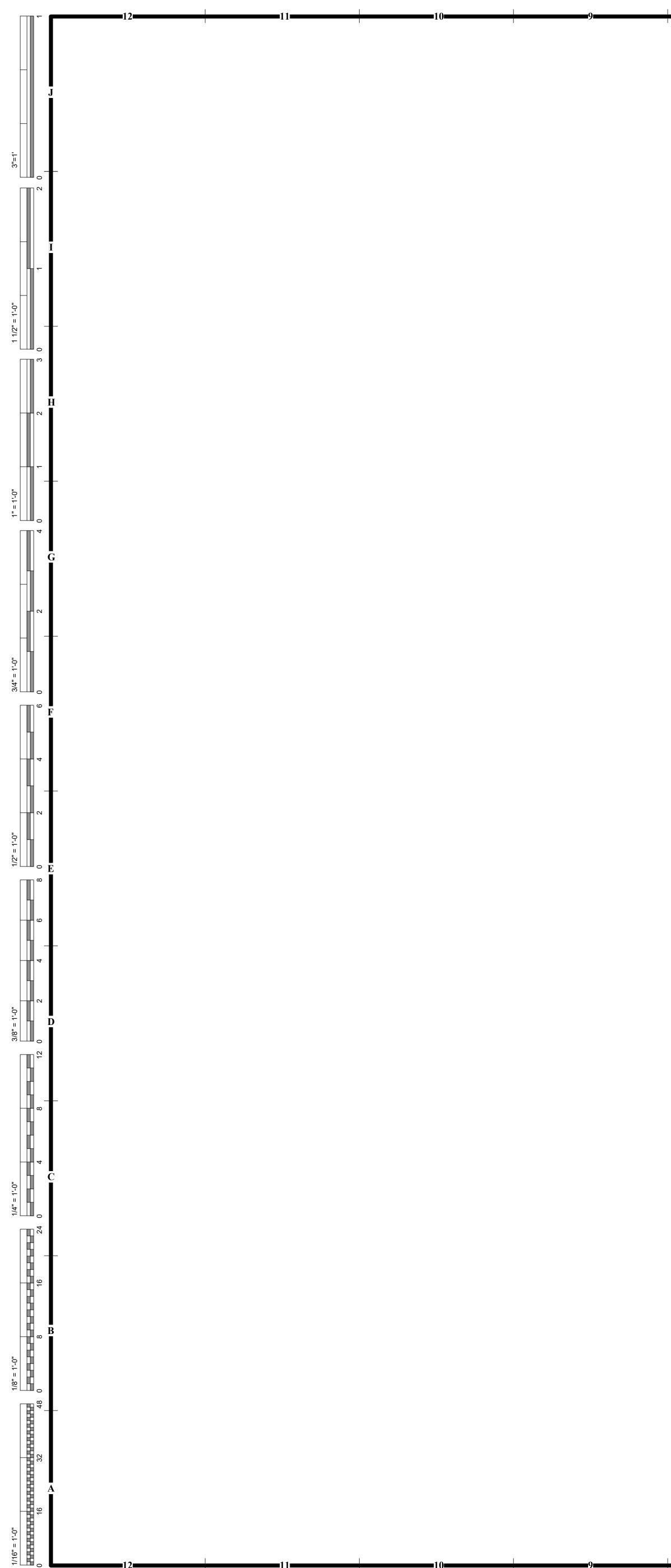
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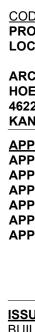


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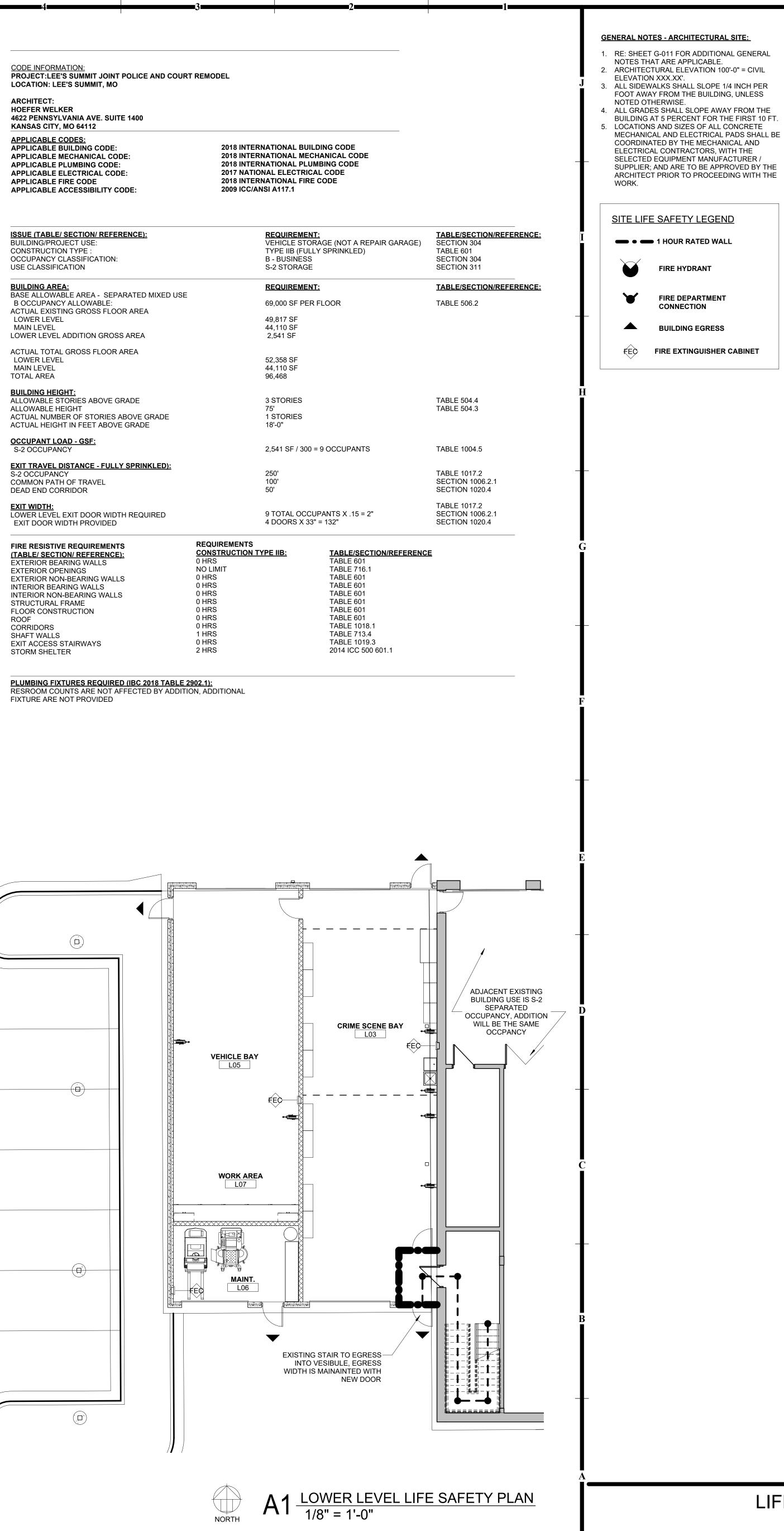
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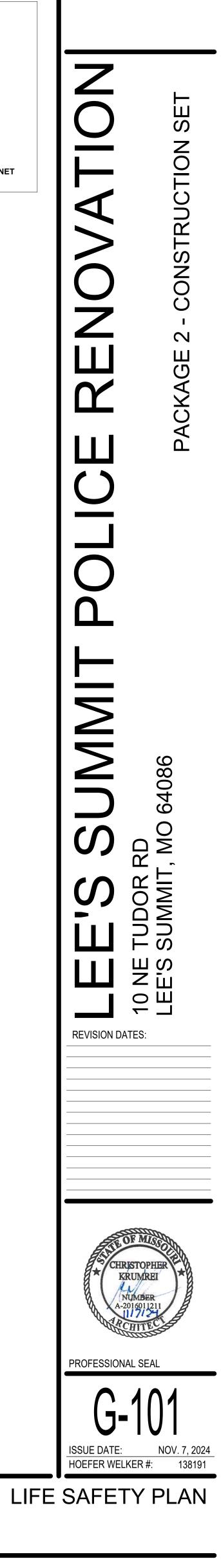
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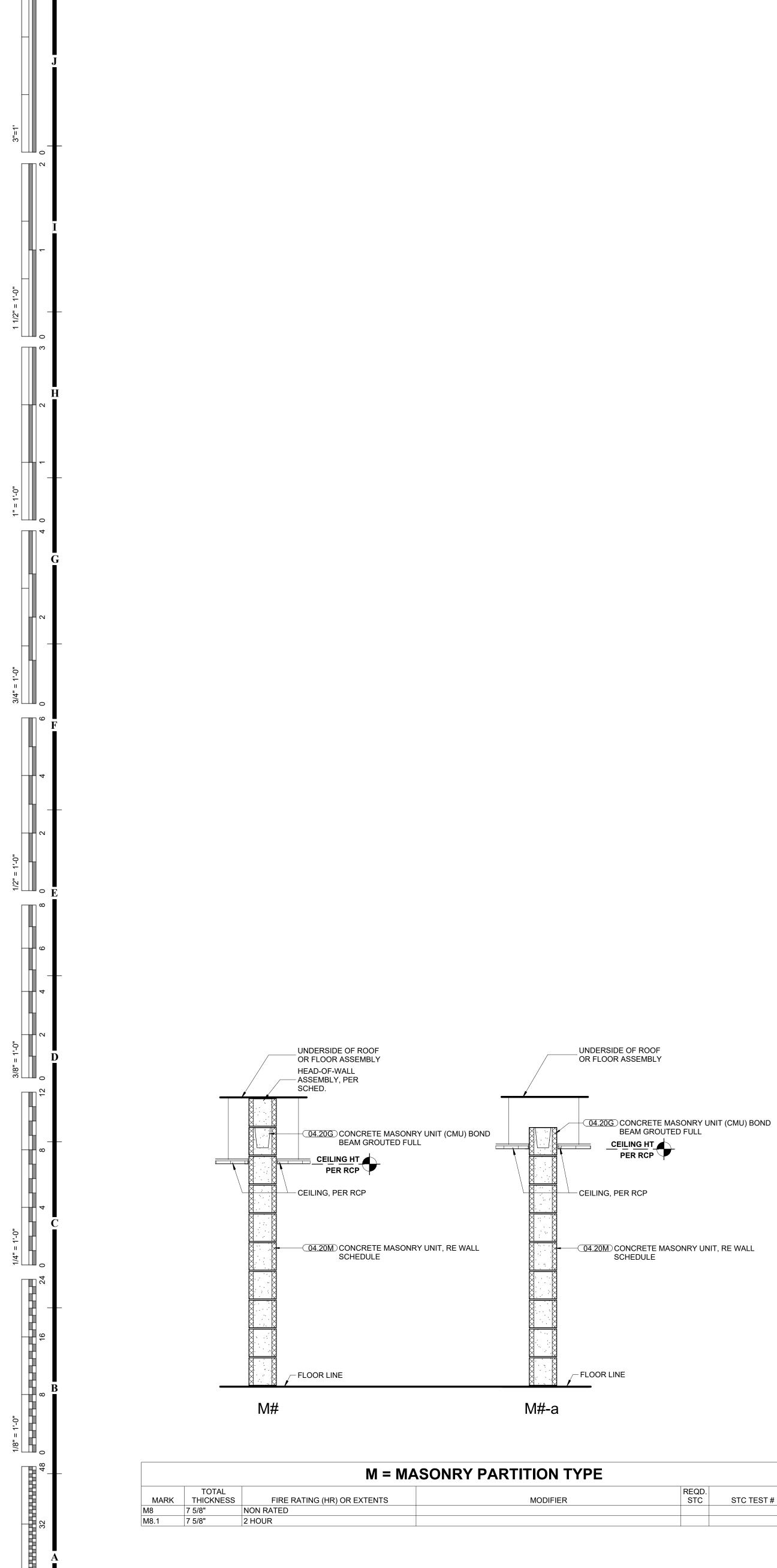




ROOF







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l B

## REQD. STC STC UL #

A

P#

3 5/8"

3 5/8"

TOTAL THICKNESS

MARK

P3 P6 Pa3

4 7/8" 7 1/4" 4 7/8"

UNDERSIDE OF ROOF OR FLOOR ASSEMBLY HEAD-OF-WALL ASSEMBLY, PER SCHED.

07.92A JOINT SEALANT

CAULK IF STC IS REQUIRED

07.92F) FIRE CAULK, IF NON-RATED, ACOUSTICAL

07.21P BATT INSULATION, REF. WALL SCHEDULE

TO UNDERSIDE OF ROOF OR FLOOR

ASSEMBLY, REF: WALL SCHEDULE

OCCURS, RE: WALL TYPE SCHEDULE

07.92F) FIRE CAULK, IF NON-RATED, ACOUSTICAL

STUD SIZE FIRE RATING (HR) OR EXTENTS

<u>— 09.22X</u> METAL STUD @ 16-INCHES O.C., REF.

SCHEDULE FOR SIZE

09.29E) INTERIOR 5/8-INCH GYP. BD., EXTENDS

ADDITIONAL LAYERS OF GYP. BD. AS

CAULK, IF NON-RATED, AL

MODIFIER	GYP BOARD	BATT INSUL. THICKNESS	REQD. STC	STC TEST #	UL #
	1 LAYER OF 5/8", BOTH SIDES	3 1/2"	40	NGC-2016074	
	1 LAYER OF 5/8", BOTH SIDES	6"	44	NGC-2018133	
	1 LAYER OF 5/8", BOTH SIDES	3 1/2"			

### P = PARTITION TYPE

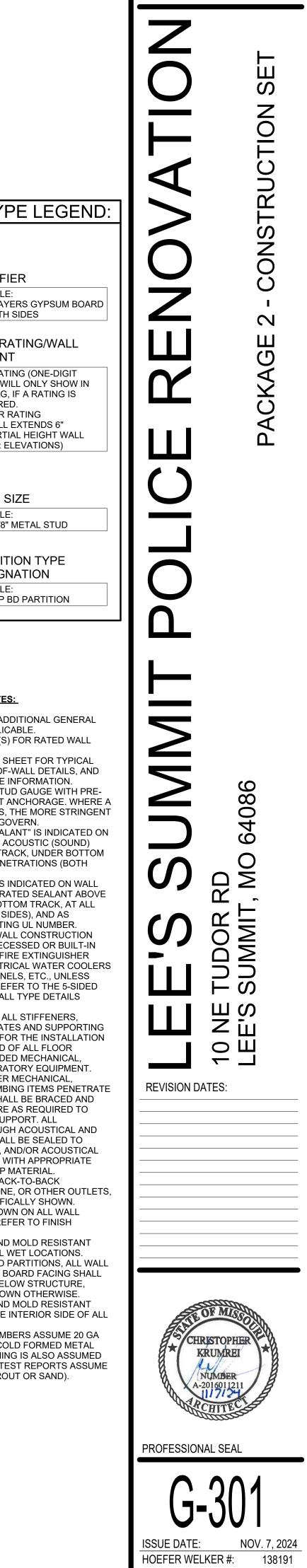
### P#-a

	OR FLOOR ASSEMBLY
/	DEFLECTION TRACK
/	
	PROVIDE BRACING AS REQUIRED TO STABILIZE WALL (48" O.C. MAX.)
<u> </u>	
W	
MMM	
WWW	- - -
MMM	07.21P BATT INSULATION, REF. WALL SCHEDULE
<u> </u>	09.22X METAL STUD @ 16-INCHES O.C., REF. SCHEDULE FOR SIZE
MMMMM	- 09.29D INTERIOR 5/8-INCH GYP. BD. REF: WALL SCHEDULE
MMMM	- 07.92A JOINT SEALANT
	-FLOOR LINE
,	

UNDERSIDE OF ROOF

	RTITIC	ON TY	PE L	E
P3	8-1w			
				PS
		FIRE	RATING	/W
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		DESI		
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FIER YERS GYPSUM BOARD I SIDES RATING/WALL ATING (ONE-DIGIT WILL ONLY SHOW IN AG, IF A RATING IS R RATING L EXTENDS 6" RTIAL HEIGHT WALL ELEVATIONS) SIZE " METAL STUD ITION TYPE GNATION

ADDITIONAL GENERAL ICABLE. S) FOR RATED WALL

SHEET FOR TYPICAL F-WALL DETAILS, AND E INFORMATION. UD GAUGE WITH PRE-ANCHORAGE. WHERE A 6, THE MORE STRINGENT OVERN. ALANT" IS INDICATED ON ACOUSTIC (SOUND) RACK, UNDER BOTTOM

NETRATIONS (BOTH S INDICATED ON WALL RATED SEALANT ABOVE TTOM TRACK, AT ALL SIDES), AND AS ING UL NUMBER. ALL CONSTRUCTION ECESSED OR BUILT-IN IRE EXTINGUISHER RICAL WATER COOLERS NELS, ETC., UNLESS

EFER TO THE 5-SIDED ALL TYPE DETAILS ALL STIFFENERS, TES AND SUPPORTING FOR THE INSTALLATION

D OF ALL FLOOR DED MECHANICAL, ATORY EQUIPMENT. R MECHANICAL, BING ITEMS PENETRATE ALL BE BRACED AND E AS REQUIRED TO JPPORT. ALL

JGH ACOUSTICAL AND ALL BE SEALED TO AND/OR ACOUSTICAL WITH APPROPRIATE P MATERIAL. ACK-TO-BACK NE, OR OTHER OUTLETS,

FICALLY SHOWN. OWN ON ALL WALL EFER TO FINISH D MOLD RESISTANT

L WET LOCATIONS. PARTITIONS, ALL WALL BOARD FACING SHALL ELOW STRUCTURE, OWN OTHERWISE. D MOLD RESISTANT E INTERIOR SIDE OF ALL

MBERS ASSUME 20 GA OLD FORMED METAL MING IS ALSO ASSUMED TEST REPORTS ASSUME ROUT OR SAND).

PARTITION TYPES



Hardware Sets

Set: 1.0

Set: 2.0

LC RX 8271-24V LNMB

match existing key system

QC-C1500P/QC-C1500

width/hardware)

control provider

(coordinate w/GC)

QC-Cxx/CxxP (size to door

Wall Mounted Reader by access

Set: 3.0

AQD or Centralized Power Source

CPS7500

2891AS

3452AV

2005AT

DPS

346C

type as req'd for hardware item,

T4A3386 NRP 4-1/2" x 4-1/2" US32D MK 087100

T4A3386 QC12 4-1/2" x 4-1/2" US32D MK 087100 4

689

US32D SA 087100 4

NO 087100

PE 087100

PE 087100

PE 087100

PE 087100

HID

MK 087100 🗳

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SU 087100 🖧

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US26D MK 087100

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630 SU 087100 🖧

US26D SA 087100 🖧

NO 087100

NO 087100

MK 087100 🗳

MK 087100 🗳

SU 087100 🖧

SU 087100 🖧

689 NO 087100

HID

	<u>Set: 1.0</u>
Doors: L03C, L03D, L05B, L06B, L312A	, L312B, L312C, L312D
Description: OH DOOR	

1 Hardware By Others Hardware By Door Supplier

Doors: L03B, L05C, L06A Description: EXTERIOR HMD CARD READER LOCK CPS CLOSER

- 2 Hinge, Full Mortise, Hvy Wt
- 1 Hinge, Full Mortise, Hvy Wt
- 1 Fail Secure Lock
- 1 Cylinder Rim/Mortise
- 1 Door Closer 1 Gasketing
- 1 Rain Guard 1 Sweep
- 1 Threshold
- 1 ElectroLynx Harness
- 1 ElectroLynx Harness
- 1 Position Switch
- 1 Card Reader

1 Power Supply

Notes: ACCESS BY AUTHORIZED CARD CREDENTIAL OR MANUAL KEY. ALWAYS FREE

EGRESS.

Doors: L04A Description: EXTERIOR HMD CARD READER LOCK PR CLOSER

DOOR HARDWARE

### LEE'S SUMMIT POLICE RENOVATION LEE'S SUMMIT, MO

3 Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"
1 Electric Power Transfer	EL-CEPT
1 Fail Secure Lock	LC RX 8271-24V LNMB
1 Cylinder Rim/Mortise	type as req'd for hardware item, match existing key system
1 Door Closer	CPS7500
1 Blade Stop	6891
1 Drop Plate	7788
1 Set Weatherstrip	by Door Manufacturer
1 ElectroLynx Harness	QC-C1500P/QC-C1500
1 ElectroLynx Harness	QC-Cxx/CxxP (size to door width/hardware)
1 Position Switch	DPS
1 Card Reader	Wall Mounted Reader by access control provider
1 Power Supply	AQD or Centralized Power Source

Notes: ACCESS BY AUTHORIZED CARD CREDENTIAL OR MANUAL KEY. ALWAYS FREE EGRESS.

(coordinate w/GC)

Doors: L359, L361	
Description: OFFICE LOCK NO CLOSER GA	SKET

3 Hinge, Full Mortise	TA2714
1 Office/Entry Lock	LC 820
1 Cylinder Rim/Mortise	type as match e
1 Wall Stop	409
3 Silencer	608

Notes: RM850 FLOOR STOP @ L359.

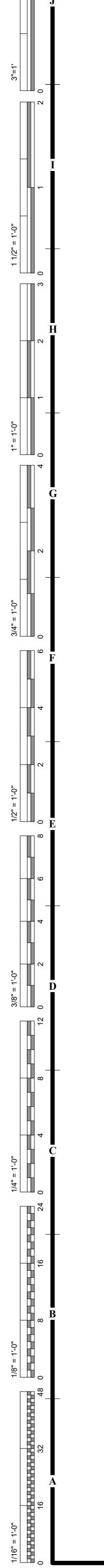
### Doors: L251

DOOR HARDWARE

1 Power Supply

Description: STOREROOM LOCK	PR CLOSER
3 Hinge, Full Mortise, Hvy Wt	T4A3786 NI

1 Storeroom/Closet Lock



### 138191

### LEE'S SUMMIT POLICE RENOVATION LEE'S SUMMIT, MO

2 Hinge, Full Mortise, Hvy Wt	T4A3386 NRP 4-1/2" x 4-1/2"	US32D	MK 087100	
1 Hinge, Full Mortise, Hvy Wt	T4A3386 QC12 4-1/2" x 4-1/2"	US32D	MK 087100	4
1 Fail Secure Lock	LC RX 8271-24V LNMB	US32D	SA 087100	4
1 Cylinder Rim/Mortise	type as req'd for hardware item, match existing key system			
1 Door Closer	PR7500	689	NO 087100	
1 Wall Stop	409	US32D	RO 087100	
1 Gasketing	2891AS		PE 087100	
1 Rain Guard	346C		PE 087100	
1 Sweep	3452AV		PE 087100	
1 Threshold	2005AT		PE 087100	
1 ElectroLynx Harness	QC-C1500P/QC-C1500		MK 087100	4
1 ElectroLynx Harness	QC-Cxx/CxxP (size to door width/hardware)		MK 087100	4
1 Position Switch	DPS		SU 087100	4
1 Card Reader	Wall Mounted Reader by access control provider		HID	
1 Power Supply	AQD or Centralized Power Source (coordinate w/GC)		SU 087100	4

Notes: ACCESS BY AUTHORIZED CARD CREDENTIAL OR MANUAL KEY. ALWAYS FREE EGRESS.

### Set: 4.0

Doors: L03A, L05A Description: CARD READER LOCK CPS CLOSER GASKET SWEEP TH

2 Hinge (heavy weight)	T4A3786 4-1/2" x 4-1/2"	US26D	MK 087100	
1 Hinge (heavy weight)	T4A3786 QC12 4-1/2" x 4-1/2"	US26D	MK 087100	4
1 Fail Secure Lock	LC RX 8271-24V LNMB	US32D	SA 087100	4
1 Cylinder Rim/Mortise	type as req'd for hardware item, match existing key system			
1 Door Closer	CPS7500	689	NO 087100	
1 Gasketing	S773D (Head & Jambs)		PE 087100	
1 Sweep	315CN		PE 087100	
1 Threshold	171A		PE 087100	
1 ElectroLynx Harness	QC-C1500P/QC-C1500		MK 087100	4
1 ElectroLynx Harness	QC-Cxx/CxxP (size to door width/hardware)		MK 087100	4

### DOOR HARDWARE

LEE'S SUMMIT, MO

LEE'S SUMMIT POLICE RENOVATION

138191

087100 - 2

138191

1 Cylinder Rim/Mortise	type as req'd for hardware item, match existing key system		
1 Door Closer	PR7500	689	NO 087100
1 Kick Plate	K1050 10" x 2" LDW 4BE CSK	US32D	RO 087100
1 Wall Stop	409	US32D	RO 087100
3 Silencer	608		RO 087100

### Set: 9.0

Doors: L272, L280 Description: INTERVIEW GASKET SEALS

Gasketing, interview rooms	350CSR	PE 087100
Threshold	2005AT	PE 087100

Notes: EXISTING DOOR/FRAME ADD NEW GASKET AND THRESHOLD.

END OF SECTION 087100

### Set: 7.0

4-1/2" x 4-1/2"	US26D	MK	087100
LNMB	US26D	SA	087100
eq'd for hardware item, isting key system			
	US32D	RO	087100
		RO	087100

### Set: 8.0

286 NRP 4-1/2" x 4-1/2" US26D MK 087100 LC 8204 LNMB

### US26D SA 087100

087100 - 4

DOOR HARDWARE

087100 - 5

### ADDITIONAL SPECIFICATIONS FOR THIS PROJECT ARE FOUND IN THE LEE'S SUMMIT JOINT OPERATIONS FACILITY, PACKAGE 2: CONSTRUCTION SET

LEE'S SUMMIT POLICE RENO' LEE'S SUMMIT, MO	VATION	138191
1 Position Switch	DPS	SU 087100 <b>4</b>
1 Card Reader	Wall Mounted Reader by access control provider	HID
1 Power Supply	AQD or Centralized Power Source (coordinate w/GC)	SU 087100 🖧

Notes: ACCESS BY AUTHORIZED CARD CREDENTIAL OR MANUAL KEY. ALWAYS FREE EGRESS.

### Set: 5.0

Description: CARD READER LOCK PR CLOSER GASKET SWEEP TH

2 Hinge (heavy weight)	T4A3786 4-1/2" x 4-1/2"	US26D	MK 087100	
1 Hinge (heavy weight)	T4A3786 QC12 4-1/2" x 4-1/2"	US26D	MK 087100	4
1 Fail Secure Lock	LC RX 8271-24V LNMB	US32D	SA 087100	4
1 Cylinder Rim/Mortise	type as req'd for hardware item, match existing key system			
1 Door Closer	PR7500	689	NO 087100	
1 Wall Stop	409	US32D	RO 087100	
1 Gasketing	S773D (Head & Jambs)		PE 087100	
1 Sweep	315CN		PE 087100	
1 Threshold	171A		PE 087100	
1 ElectroLynx Harness	QC-C1500P/QC-C1500		MK 087100	4
1 ElectroLynx Harness	QC-Cxx/CxxP (size to door width/hardware)		MK 087100	4
1 Position Switch	DPS		SU 087100	4
1 Card Reader	Wall Mounted Reader by access control provider		HID	
1 Power Supply	AQD or Centralized Power Source (coordinate w/GC)		SU 087100	4

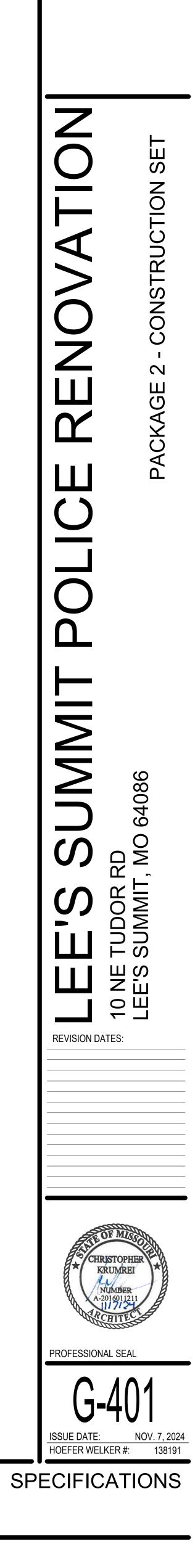
Notes: ACCESS BY AUTHORIZED CARD CREDENTIAL OR MANUAL KEY. ALWAYS FREE EGRESS.

Set: 6.0 Doors: L191 Description: ALD CARD READER LOCK CPS CLOSER

DOOR HARDWARE

Doors: L04B

087100 - 3



2018 INTERNATIONAL BUILDING CODE <u>GENERAL NOTES:</u>	1. THE CONTRACTOR/SUPPLIER IS RESPONSIBLE FOR THE DESIGN OF CONNECTION BETWEEN THEM AND OTHER STRUCTURAL MEMBERS BY AN ENGINEER LICENSED IN THE STATE OF THE PROJECT LOCAT ARCHITECT/ENGINEER OF RECORD.
<ol> <li>DESIGN AND CONSTRUCTION SHALL CONFORM TO THE 2018 INTERNATIONAL BUILDING CODE.</li> <li>THE DRAWINGS REPRESENT THE FINISHED STRUCTURE, NOT THE METHOD</li> </ol>	2. ALL PRECAST MEMBERS ARE TO BE DESIGNED IN ACCORDANCE WI APPLICABLE CODES, STANDARDS (SEE SPECS) AND DESIGNED COM
OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE NEW AND EXISTING STRUCTURE DURING CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, BRACING, SHORING FOR CONSTRUCTION LOADS AND EQUIPMENT, ETC. THE ARCHITECT-ENGINEER IS NOT RESPONSIBLE FOR THE CONTRACTOR'S MEANS AND METHODS, SEQUENCES OF CONSTRUCTION, OR THE SAFETY PROGRAM. OBSERVATION VISITS TO THE SITE BY THE	<ol> <li>PROVIDE BLOCKOUTS AND OPENINGS FOR MECHANICAL/ELECTRIC/ MECHANICAL/ELECTRICAL DOCUMENTS.</li> <li>SHOP DRAWINGS SHALL BE COMPLETE AND SHALL INCLUDE A LAYOR</li> </ol>
ARCHITECT-ENGINEER WILL NOT INVOLVE REVIEW OF THESE ITEMS. 3. CONTRACTOR IS TO ESTABLISH AND VERIFY OPENINGS AND INSERTS FOR ITEMS TO BE INSTALLED	CAMBER, CONNECTION AND ANCHORAGE DETAILS AND MEMBER ID MARKS SHALL APPEAR ON MANUFACTURED UNITS TO FACILITATE (
BY OTHER TRADES PRIOR TO SUBMITTAL OF SHOP DRAWINGS AND CONSTRUCTION. 4. CONSTRUCTION MATERIAL AND EQUIPMENT PLACED ON FRAMED CONSTRUCTIONS SHALL BE SUCH	5. REFER TO MECHNICAL/ELECTRICAL DRAWINGS FOR CONDUIT LOCA STRUCTURAL STEEL:
THAT THE LOAD DOES NOT EXCEED THE DESIGN LIVE LOAD OF THE CONSTRUCTION. PROVIDE SHORING OF CONSTRUCTIONS WHERE NECESSARY FOR LOADS.	1. FABRICATOR SHALL BE AISC CERTIFIED IN LIEU OF THE PREVIOUS, F BID THE SERVICES OF A SPECIAL INSPECTOR TO PROVIDE INSPECT WORK TO MEET THE REQUIREMENTS OF 2018 INTERNATIONAL BUIL
<ol> <li>DETAILS THAT ARE NOTED AS "TYP." ON DETAIL TITLES ARE TO BE APPLIED TO THE PROJECT CONSTRUCTION AS GENERAL CONSTRUCTION METHODS UNLESS NOTED OTHERWISE. THESE DETAILS ARE NOT CUT AT ALL LOCATIONS THEY OCCUR AND MAY NOT BE CUT AT ALL.</li> </ol>	<ol> <li>STRUCTURAL STEEL SHALL MEET ASTM A36 UNLESS NOTED OTHER FLANGE SHAPES SHALL MEET ASTM A992.</li> </ol>
6. CONTRACTOR NOTE: PROVIDE 2 TONS OF MISCELLANEOUS STRUCTURAL STEEL SHAPES (LABOR FOR BOTH LABOR FOR DETAILING AND ERECTION INCLUDED FOR FIELD USE AS DIRECTED BY THE ARCHITECT/ENGINEER.	3. STEEL TUBES SHALL MEET ASTM A500, GRADE B.
DESIGN: ALL CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING CODES AND STANDARDS, EXCEPT	4. STEEL PIPE SHALL MEET ASTM A53, TYPE E OR S, GRADE B.
WHERE NOTED TO THE CONTRARY ON DRAWINGS OR WHERE MORE STRINGENT REQUIREMENTS ARE         SHOWN.         ACI 301       SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS.	<ol> <li>BOLTS SHALL BE 3/4" DIAMETER A325-N UNLESS OTHERWISE NOTED</li> <li>FIELD BOLTING INSTALLATION SHALL BE INSPECTED IN ACCORD WI BUILDING CODE AND THE AISC LRFD MANUAL, SECOND EDITION. BO TIGHT UNLESS NOTES OTHERWISE NOTED. ASTM A-325-SC SHALL E</li> </ol>
ACI 318       BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE         AISC 360-16       SPECIFICATIONS FOR STRUCTURAL STEEL FOR BUILDINGS         AISI-5100-16       NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL         STRUCTURAL MEMBERS         AWS D1.1       STRUCTURAL WELDING CODE	<ul> <li>INDICATOR WASHERS.</li> <li>7. ALL WELDING SHALL CONFORM TO THE PROVISIONS OF THE AMERICAWS D1.1-98. ELECTRODES SHALL MATCH BASE METALS AS SPECIFICULDING CODE.</li> </ul>
ICC500-14 22020 ICC/NSSA STANDARD FOR THE DESIGN AND CONSTRUCTION OF STORM SHELTER DEAD LOADS:	8. ALL FIELD WELDING SHALL BE VISUALLY INSPECTED BY THE TESTIN
ROOF: 25 PSF LIVE LOADS: ROOF: 20 PSF	<ul> <li>9. HOT DIP GALVANIZE ALL STEEL MEMBERS EXPOSED TO EXTERIOR 1</li> <li>10. ALL STEEL BELOW GRADE SHALL BE ENCASED IN CONCRETE WHEI STEEL SHALL BE THOROUGHLY COATED WITH TWO COATS OF ASPH</li> </ul>
<u>SNOW LOADS:</u> SNOW LOADS IN ACCORD WITH THE 2018 INTERNATIONAL BUILDING CODE AND ASCE 7 INCLUDING DRIFTING SNOW LOADS CHAPTER 16.	<u>STEEL JOISTS:</u> 1. FABRICATOR SHALL BE AN "APPROVED FABRICATOR" IN ACCORD W CODE BUILDING CODE SECTION 1704.2, REGISTERED AND APPROVE
Ce = 1.0 Ct = 1.0 Pg = 20 PSF Pf = 16.8 PSF	2. DESIGNED, FABRICATED AND ERECTED IN ACCORD WITH THE 2018 I AND THE STANDARD SPECIFICATIONS FOR STEEL JOIST, K-SERIES, PUBLISHED BY THE STEEL JOIST INSTITUTE.
Pf(min)=16 psf RAIN ON SNOW LOAD=5 PSF DESIGN BALANCE SNOW LOAD = 24 PSF	3. SIZE, TYPE AND SPACING OF JOIST BRIDGING TO BE IN ACCORD WIT RECOMMENDATIONS. USE 'X'-BRIDGING AT DISCONTINUOUS ENDS O TO AVOID MECHANICAL OPENINGS.
<u>WIND LOAD:</u> WIND LOADS IN ACCORD WITH THE 2018 INTERNATIONAL BUILDING CODE. ULTIMATE DESIGN WIND SPEED = 122 MPH	4. JOIST SEAT DEPTH SHALL BE 2-½" FOR 'K' SERIES AND 5" INCHES FO OTHERWISE.
EXPOSURE = B <u>SEISMIC LOAD:</u> SEISMIC DESIGN IN ACCORD WITH 2018 INTERNATIONAL BUILDING CODE. IE=1.5 SEISMIC USE GROUP IV	<ol> <li>DESIGN EXTENDED ENDS FOR SAME DEAD LOADS AS JOIST AND A S LOADS AS INDICATED. LIMIT LIVE LOAD DEFLECTION TO L/240.</li> <li>ADDITIONAL LOADS HAVE BEEN NOTED ON FRAMING PLANS. JOISTS SUPPORT THE ADDITIONAL LOADS. IT IS THE JOISTS SUPPLIERS RE LOAD IN ADDITION TO THE DEAD AND LIVE LOADS LISTED ON THIS S</li> </ol>
SITE CLASS = B MAPPED SPECTRAL RESPONSE COEFFICIENTS: Ss = 0.16 SI = 0.082 SPECTRAL RESPONSE COEFFICIENTS: SDS = 0.14 SDI = 0.12 SEISMIC DESIGN CATEGORY C PRECAST CONCRETE WALLS.	METAL DECK: 1. METAL ROOF DECK SHALL BE DEPTH X GAUGE SHOWN ON DRAWING LAPS AND PAINTED.
Cs = 0.0569 LATERAL LOAD RESISTANCE SYSTEM:	2. COMPOSITE FLOOR DECK SHALL BE DEPTH X GAUGE SHOWN ON DF SIDE LAPS AND GALVANIZED.
STEEL DECK ROOF DIAPHRAGMS TRANSFERRING LATERAL LOADS TO PRECAST CONCRETE SHEAR WALLS & BRACED FRAME SUPPORTED BY SHALLOW CONCRETE FOUNDATIONS. <u>FOUNDATIONS:</u> 1. A GEOTECHNICAL REPORT HAS NOT BEEN COMPLETED. A GEOTECHNICAL ENGINEER SHALL VERIFY SOILS PRIOR	<ol> <li>FASTEN ROOF DECK IN ACCORD WITH METAL DECK ATTACHMENT T FASTENING DETAILS. DECK ATTACHMENT SHALL BE IN ACCORD WIT DECK INSTITUTE'S SECOND EDITION OF THE DIAPHRAGM DESIGN M.</li> <li>METAL DECK ATTACHMENTS SHALL BE INSPECTED BY TESTING LAB</li> </ol>
TO FOUNDATION PLACEMENT. 2. ALLOWABLE BEARING PRESSURE: 2000 PSF	<ol> <li>METAL DECK AT FACHMENTS SHALL BE INSPECTED BY TESTING LAB MASONRY:</li> <li>THE MINIMUM 28-DAY COMPRESSIVE STRENGTH OF THE CONCRETE ON THE NET AREA, PROVIDING A STRUCTURAL DESIGN COMPRESSI</li> </ol>
<ol> <li>FROST DEPTH = 3'-0"</li> <li>SEE GEOTECHNICAL REPORT FOR ANY ADDITIONAL OVEREXCAVATION AND SUBGRADE PREPARATION REQUIREMENTS. ALL RECOMMENDATION IN THE GEOTECHNICAL REPORT SHALL BE FOLLOWED UNO.</li> </ol>	<ol> <li>2018 INTERNATIONAL BUILDING CODE, TABLE 2105.2.2.1.2.</li> <li>2. MORTAR SHALL BE TYPE S IN ACCORD WITH THE 2018 INTERNATION MORTAR PROPORTIONS FOR UNIT MASONRY, USING CEMENT LIME</li> </ol>
<u>STRUCTURAL BACKFILL:</u> 1. ALL BELOW-GRADE WALLS TO BE BACKFILLED WITH GRAVEL BACKFILL AS DESCRIBED IN GEOTECH REPORT.	(MASONRY CEMENT IS NOT ACCEPTABLE). 3. MINIMUM 28-DAY COMPRESSIVE STRENGTH OF GROUT SHALL BE TH
<ol> <li>PLACE BACKFILL AND COMPACT IN 8" LIFTS PER GEOTECH REPORT.</li> <li>DESIGN EQUIVALENT FLUID PRESSURES (GRAVEL BACKFILL) ACTIVE: 35 psf/ft</li> </ol>	<ol> <li>MINIMUM 20-DAT COMINALCOIVE OTHEROTHON GROOT GROOT GRADE BE THE COMPRESSIVE STRENGTH OF THE MASONRY UNITS. AIR ENTRAINM ACCEPTABLE IN GROUT MIX. GROUT SHALL HAVE A SLUMP OF 8 TO</li> <li>MASONRY REINFORCING STEEL SHALL BE ASTM A615, GRADE 60.</li> </ol>
AT-REST: 56 psf/ft CONCRETE:	5. HORIZONTAL JOINT REINFORCING SHALL BE STANDARD LADDER TY CENTER, UNLESS OTHERWISE NOTED ON PLAN.
1. CONCRETE MIX DESIGNS: FOOTINGS: MIN 28 DAY COMPRESSIVE STRENGTH = 4,000 PSI W/C RATIO = 0.50 MAX ACCEPTOATE SIZE = 2/4"	6. MINIMUM BOND BEAM REINFORCING SHALL BE 2 - #4 IN 6" AND 8" BO BEAMS. BOND BEAM REINFORCING SHALL BE CONTINUOUS THROU ON TYPICAL MASONRY WALL OPENING DETAIL.
MAX AGGREGATE SIZE = 3/4" SLUMP = 4" ±1" AIR CONTENT = 6% ±1.5% (ASTM C 260)	7. SPLICE LENGTHS FOR MASONRY REINFORCEMENT SHALL BE IN ACC LENGTH TABLE OR AS SHOWN ON THE DRAWINGS.
WALLS: MIN 28 DAY COMPRESSIVE STRENGTH = 4,000 PSI	8. PROVIDE BOND BEAMS AT TOP OF ALL WALLS, AT ROOFS, STRUCTU WALLS AND WHERE SHOWN ON THE DRAWINGS.
W/C RATIO = 0.50 MAX AGGREGATE SIZE = 3/4" SLUMP = 4" ±1"	9. REINFORCING SHALL BE HELD IN PLACE PRIOR TO GROUTING WITH NOT EXCEEDING 192 BAR DIAMETERS NOR 10 FEET. PROVIDE POSI
AIR CONTENT = 6% ±1.5% (ASTM C 260)	10. VERTICAL REINFORCING SHALL BE AS FOLLOWS, UNLESS OTHERW 8" CONC BLOCK 1-#5 @ 4'-0" OC
SLAB ON GRADE: MIN 28 DAY COMPRESSIVE STRENGTH = 4,000 PSI W/C RATIO = 0.45 MAX AGGREGATE SIZE = 3/4"	11. PROVIDE 1 #5 VERTICAL REINFORCING AT JAMB OPENINGS, ENDS J EACH SIDE OF CONTROL JOINTS. SPECIAL JAMB REINFORCING, WH THE PLANS.
MAX SLUMP = 4" AIR CONTENT = 1.5% (ASTM C 260) EXTERIOR CONCRETE:	12. ELECTRICAL PANELS, CONDUITS, PIPES, FIRE EXTINGUISHER CABI AS NOT TO INTERFERE WITH REINFORCED AND/OR GROUTED CELI HORIZONTALLY THROUGH WALLS SHALL BE SLEEVED. MINIMUM S
MIN 28 DAY COMPRESSIVE STRENGTH = 4,500 PSI W/C RATIO = 0.40 MAX AGGREGATE SIZE = 3/4" SLUMP = 4"±1" AIR CONTENT = 6% ± 1.5% (ASTM C 260)	BE THREE DIAMETERS. 13. GROUT SHALL BE MECHANICALLY CONSOLIDATED IN A MANNER TO RECONSOLIDATED IN ACCORD WITH THE 2018 INTERNATIONAL BUI
2. IF CONTRACTOR DESIRES TO INCREASE SLUMP ABOVE ALLOWABLE LIMITS TO FACILITATE PLACEMENT OR PUMPING THIS SHALL BE DONE UTILIZING AN APPROPRIATE APPROVED ADMIXTURE - NO WATER SHALL BE ADDED AT THE PROJECT SITE WITHOUT THE ENGINEER'S PERMISSION. ALL ADMIXTURES SHALL BE APPROVED IN	<ol> <li>PROVIDE GROUT AND MASONRY UNIT TESTING PRIOR TO AND DUF 2018 INTERNATIONAL BUILDING CODE.</li> <li>REINFORCEMENT PLACEMENT, GROUT SPACES AND GROUTING OF</li> </ol>
WRITING BY THE ENGINEER. 3. THE CONTRACTOR SHALL REJECT ANY CONCRETE THAT EXCEEDS THE SLUMP LIMITS NOTED ABOVE OR EXCEEDS THE TOTAL ALLOWABLE MIXING TIME.	LABORATORY IN ACCORD WITH THE 2018 INTERNATIONAL BUILDIN PROJECTION INTO THE GROUT SPACE SHALL NOT EXCEED 1/2 INC
<ol> <li>FLY ASH MAY BE INCLUDED IN FOUNDATION CONCRETE.</li> <li>NO ALUMINUM SHALL BE PLACED IN CONCRETE.</li> </ol>	
6. DURING HOT WEATHER (80 DEGREES F AND ABOVE, THE CONTRACTOR SHALL COMPLY WITH THE	
RECOMMENDATIONS ACI 305"HOT WEATHER CONCRETE." DURING COLD WEATHER (40 DEGREES F AND BELOW), THE CONTRACTOR SHALL COMPLY WITH THE RECOMMENDATIONS OF ACI-306 "COLD WEATHER CONCRETING." 7. THE CONCRETE MIX DESIGNS ARE TO BE SUBMITTED AS A FORMAL SUBMITTAL TO THE ENGINEER OF RECORD FOR REVIEW AND ACCEPTANCE. AFTER ACCEPTANCE OF THE MIX DESIGN BY THE ENGINEER OF RECORD, THE	
ACCEPTED DESIGNS MUST BE FORWARDED TO THE CITY INSPECTION DEPT. & THE SPECIAL INSPECTOR PRIOR TO CONCRETE BEING DELIVERED TO THE SITE.	
<ol> <li>REINFORCING STEEL SHALL BE ASTM A615, GRADE 60.</li> <li>CONCRETE COVER REQUIREMENTS FOR CAST-IN-PLACE, UNLESS OTHERWISE NOTED ON</li> </ol>	
DETAILS: CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3"	
OTHER: #6 BARS AND LARGER: 2" #5 BARS AND SMALLER: 1-1/2" 2. DEINEORCING RAD SPLICES SHALL RE IN ACCORD WITH THE REQUIREMENTS OF ACL 219, 14 AND THE REINEORCING	
3. REINFORCING BAR SPLICES SHALL BE IN ACCORD WITH THE REQUIREMENTS OF ACI 318-14 AND THE REINFORCING SPLICE LENGTH TABLE SHOWN ON THE DRAWINGS.	

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14

1/8" = 1<sup>-</sup>

### RESPONSIBLE FOR THE DESIGN OF ALL THE PRECAST MEMBERS AND AND OTHER STRUCTURAL MEMBERS. SUBMIT DESIGN CALCULATIONS, SEALED THE STATE OF THE PROJECT LOCATION, FOR REVIEW BY THE

BE DESIGNED IN ACCORDANCE WITH ACI 318-14, 2018 IBC AND OTHER DS (SEE SPECS) AND DESIGNED CONNECTIONS. NINGS FOR MECHANICAL/ELECTRICAL EQUIPMENT. REFER TO

IPLETE AND SHALL INCLUDE A LAYOUT PLAN, FABRICATION DETAILS, ESTIMATED CHORAGE DETAILS AND MEMBER IDENTIFICATION MARKS. IDENTIFICATION IUFACTURED UNITS TO FACILITATE CORRECT FIELD PLACEMENT. CAL DRAWINGS FOR CONDUIT LOCATIONS EMBEDDED IN PRECAST MEMBERS

RTIFIED IN LIEU OF THE PREVIOUS, FABRICATOR SHALL INCLUDE IN THEIR L INSPECTOR TO PROVIDE INSPECTION/TESTING SERVICES FOR IN-SHOP ENTS OF 2018 INTERNATIONAL BUILDING CODE SECTION 1704.

T ASTM A36 UNLESS NOTED OTHERWISE. STRUCTURAL STEEL WIDE STM A992.

HALL BE INSPECTED IN ACCORD WITH THE 2018 INTERNATIONAL .RFD MANUAL, SECOND EDITION. BOLTS SHALL BE INSTALLED SNUG SE NOTED. ASTM A-325-SC SHALL BE FULLY TIGHTENED USING LOAD

TO THE PROVISIONS OF THE AMERICAN WELDING SOCIETY CODE LL MATCH BASE METALS AS SPECIFIED IN 2018 INTERNATIONAL

ISUALLY INSPECTED BY THE TESTING LABORATORY.

MEMBERS EXPOSED TO EXTERIOR TO MEET ASTM 525 G60. LL BE ENCASED IN CONCRETE WHERE POSSIBLE; IF NOT POSSIBLE, COATED WITH TWO COATS OF ASPHALTIC PAINT.

ROVED FABRICATOR" IN ACCORD WITH THE 2018 INTERNATION BUILDING 1704.2, REGISTERED AND APPROVED BY THE LOCAL BUILDING DEPARTMENT. ECTED IN ACCORD WITH THE 2018 INTERNATION BUILDING CODE CHAPTER 22 TIONS FOR STEEL JOIST, K-SERIES, LH-SERIES, DLH-SERIES AND JOIST GIRDERS, INSTITUTE.

ST BRIDGING TO BE IN ACCORD WITH STEEL JOIST INSTITUTE RIDGING AT DISCONTINUOUS ENDS OF BRIDGING. LOCATE BRIDGING

<sup>/</sup>2" FOR 'K' SERIES AND 5" INCHES FOR 'LH' SERIES UNLESS NOTED

AME DEAD LOADS AS JOIST AND A SNOW LOAD OF 40 PSF, AND OTHER E LOAD DEFLECTION TO L/240. NOTED ON FRAMING PLANS. JOISTS SHALL BE DESIGNED TO DS. IT IS THE JOISTS SUPPLIERS RESPONSIBILITY TO DESIGN JOIST FOR ANY AND LIVE LOADS LISTED ON THIS SHEET.

EPTH X GAUGE SHOWN ON DRAWINGS(22 GA. MIN.), WITH NESTABLE SIDE

L BE DEPTH X GAUGE SHOWN ON DRAWING (22 GA MIN.), WITH NESTABLE WITH METAL DECK ATTACHMENT TYPES NOTED ON THE PLANS AND ACHMENT SHALL BE IN ACCORD WITH VULCRAFT AND THE STEEL TION OF THE DIAPHRAGM DESIGN MANUAL OR APPROVED EQUAL.

SIVE STRENGTH OF THE CONCRETE MASONRY UNITS SHALL BE 1900 PSI STRUCTURAL DESIGN COMPRESSIVE STRENGTH OF 1500 PSI PER THE

CODE, TABLE 2105.2.2.1.2. CORD WITH THE 2018 INTERNATIONAL BUILDING CODE, TABLE NO. 2103.7(1), IT MASONRY, USING CEMENT LIME OR MORTAR CEMENT MIXES. EPTABLE).

STRENGTH OF GROUT SHALL BE THE GREATER OF 2500 PSI OR THE HE MASONRY UNITS. AIR ENTRAINMENT AND OTHER ADDITIVES ARE NOT ROUT SHALL HAVE A SLUMP OF 8 TO 11 INCHES. SHALL BE ASTM A615, GRADE 60.

NG SHALL BE STANDARD LADDER TYPE, GALVANIZED, AT 16-INCHES ON IOTED ON PLAN.

CING SHALL BE 2 - #4 IN 6" AND 8" BOND BEAMS AND 2 - #5 IN 12" BOND ING SHALL BE CONTINUOUS THROUGH CONTROL JOINTS EXCEPT AS NOTED

ENING DETAIL. REINFORCEMENT SHALL BE IN ACCORD WITH THE REINFORCING SPLICE N THE DRAWINGS.

OF ALL WALLS, AT ROOFS, STRUCTURAL FLOORS, OVER ALL OPENINGS IN THE DRAWINGS.

N PLACE PRIOR TO GROUTING WITH WIRE POSITIONERS PLACED AT INTERVALS TERS NOR 10 FEET. PROVIDE POSITIONERS AT REINFORCING SPLICES. L BE AS FOLLOWS, UNLESS OTHERWISE NOTED ON THE PLANS OR DETAILS.

ORCING AT JAMB OPENINGS, ENDS AND CORNERS OF ALL WALLS AND S. SPECIAL JAMB REINFORCING, WHERE REQUIRED, IS CALLED OUT ON

IS, PIPES, FIRE EXTINGUISHER CABINETS, ETC., ARE TO BE LOCATED SO EINFORCED AND/OR GROUTED CELLS. PIPES AND CONDUITS PASSING LS SHALL BE SLEEVED. MINIMUM SPACING OF SLEEVES SHALL

LY CONSOLIDATED IN A MANNER TO FILL THE GROUT SPACE AND WITH THE 2018 INTERNATIONAL BUILDING CODE.

Y UNIT TESTING PRIOR TO AND DURING CONSTRUCTION IN ACCORD WITH THE CODE.

GROUT SPACES AND GROUTING OPERATION SHALL BE INSPECTED BY TESTING THE 2018 INTERNATIONAL BUILDING CODE REQUIREMENTS. MORTAR FIN SPACE SHALL NOT EXCEED 1/2 INCH.

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		0		-			1	ABBREVIATIONS: ASDALLOW	VABLE ST
<u>OST-INSTALLED ANCHORS:</u> . EXPANSION BOLTS INSTALLED IN CONCRETE OR MASONRY SHALL BE HILTI KWIK BOLT TZ ANCHORS OR APPROVED EQUAL WITH EMBEDMENT NOTED ON THE DRAWINGS OR EMBEDMENT AS RECOMMENDED BY								ARCH ARCHITEC BPL BASEP BTW BETWE	CT PLATE EEN
MANUFACTURER WHERE NO EMBEDMENT IS SHOWN. INSTALL IN ACCORD WITH MANUFACTURER'S RECOMMENDATIONS AND ICC-ES REPORTS ESR-4266. . SCREW ANCHORS SHALL BE KWIK HUS-EZ-SS316 CONCRETE ANCHORS BY HILTI, INC. OR APPROVED								BOMD BOTTOM C	of om of lin of metal
EQUAL. INSTALL IN ACCORD WITH MANUFACTURER'S RECOMMENDATIONS AND ICC-ES REPORT ESR-3027 ADHESIVE ANCHORS SHALL BE HILTI: -HIT-HY 200 SAFE SET SYSTEM WITH THE HILTI HIT-Z ROD OR HAS THREADED ROD, PER ICC ESR 3187								CIP CAST IN PI	ERLINE
-HIT-HY SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT (TE-CD OR TE-YD) WITH HAS -E THREADED ROD PER ICC-3187 -HIT-RE 500 V3 EPOXY ADHESIVE ANCHORING SYSTEM WITH THREADED ROD PER ESR-3814									RETE MAS MN SSIBLE
. ANCHORS ARE NOT TO BE INSTALLED UNTIL CONCRETE OR GROUT HAS REACHED ITS DESIGN STRENGTH. IRE RATINGS:								CONT CONTINUC CJ CONTE DIM DIMENSIO	ous Rol Join <sup>.</sup>
. FOR FIRE-RATING REQUIREMENTS AND METHODS, SEE ARCHITECTURAL DRAWINGS. <u>PECIAL STRUCTURAL INSPECTIONS</u> : . IN ACCORD WITH THE 2018 INTERNATIONAL BUILDING CODE, SECTION 1704, AS NOTED BELOW. TESTING								EA EACH EF EACH I ELEV ELEVA EMBED EMBEDME	TION
AND INSPECTION SHALL BE BY AN INDEPENDENT TESTING/INSPECTION FIRM, UNDER THE SUPERVISION OF A LICENSED ENGINEER EMPLOYED BY THAT FIRM. THE BASIS FOR WELDING INSPECTOR QUALIFICATION SHALL BE AWS D1.1.								EOS EDGE EQ EQUAL I EW EACH WAY EXP EXPAN	
. SPECIAL INSPECTION IS TO BE PROVIDED IN ADDITION TO THE INSPECTIONS CONDUCTED BY THE LOCAL DEPARTMENT OF BUILDING SAFETY AND SHALL NOT BE CONSTRUED TO RELIEVE THE OWNER OR HIS AUTHORIZED AGENT FROM REQUESTING THE PERIODIC AND CALLED INSPECTIONS REQUIRED BY THE 2018								FF FINISH	i floor Dation Ing
INTERNATIONAL BUILDING CODE. . THE INSPECTOR SHALL OBSERVE THE WORK ASSIGNED TO BE CERTAIN IT CONFORMS WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS.								GB GRADE BE HS HEADE HSS HOLLC	EAM ED STUD DW STRU(
. THE INSPECTOR SHALL FURNISH DAILY INSPECTION REPORTS ON THE WORK TO THE BUILDING OFFICIAL AND TO THE ENGINEER OF RECORD FOR CONFORMANCE TO THE CONTRACT DOCUMENTS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, AND, IF								INFO INFOR INSUL INSULATIO	tion Join Rmation On
UNCORRECTED, TO THE ENGINEER OF RECORD AND THE BUILDING OFFICIAL. . THE TESTING/INSPECTION FIRM'S ENGINEER SHALL COMPLETE, SIGN AND SEAL A FINAL REPORT CERTIFYING THAT TO THE BEST OF HIS KNOWLEDGE, THE WORK IS IN CONFORMANCE WITH THE CONTRACT DOCUMENTS.									BEARING 1,000 POU
STATEMENT OF SPECIAL INSPECTION								LRFD LOAD A LLH LONG LEG H LLV LONG LEG MAS MASON	<b>VERTICA</b>
IBC CODE REFERENCECONSTRUCTION TYPEFREQUENCY CONT. PER1705.2STEEL CONSTRUCTION								MAT'L MATERIAL MAX MAXIM	-
1. INSPECTION OF WELDING       X         2. INSPECTION OF HIGH STRENGTH BOLTING       X         1705.3       REINFORCED CONCRETE         1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS AND       X								OC ON CENTE PL PLATE LB POUNE	E D
PLACEMENT.       3. INSPECTION OF ANCHORS CAST IN CONCRETE         4. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.       X								PSF POUNE — REF REFER REINF REINFORC REQ'D REQUIRED	CEMENT
5. VERIFYING USE OF REQUIRED MIX DESIGN       X         6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS,       X         PERFORM SLUMP AND AIR CONTENT TESTS AND DETERMINE THE TEMPERATURE OF THE       V         CONCRETE.       V								SCHED SCHEDULE SPA SPACE SQ SQUARE STD STAND	Ξ
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION       X         TECHNIQUES.       8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.       X									ND BOTT( UE-AND-G
1705.4     MASONRY CONSTRUCTION       1. VERIFY PROPORTIONS OF SITE-PREPARED MORTAR, CONSTRUCTION OF MORTAR     X       JOINTS, LOCATION OF REINFORCEMENT, CONNECTORS AND ANCHORAGES AS     X								TOBM TOP OF BE TOF TOP O TOGB TOP OF GE	F FOOTIN
CONSTRUCTION BEGINS.       2.         2. VERIFY GROUT SPACING, GRADE AND SIZE OF REINFORCEMENT AND ANCHORS,       X         PLACEMENT OF REINFORCING AND CONNECTIONS, PROPORTIONS OF SITE PREPARED       X         GROUT PRIOR TO GROUTING.       X								TOMTOP OTOPTOP OTOSTOP O	OF MASON OF PIER OF STEEL
3. VERIFY THE PLACEMENT OF GROUT.     X       1705.6     SOILS       1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE     X       ADEQUATE BEARING CAPACITY.     X									AL
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED       X         PROPER MATERIAL.       X         3. PERFORM CLASSIFICATION AND TESTING OF THE COMPACTED FILL MATERIALS.       X								VERT VERTIC	SS NOTED CAL ED WIRE I
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING X PLACEMENT AND COMPACTION OF COMPACTED FILL. 5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT X SITE HAS BEEN PREPARED PROPERLY.								<u>SYMBOLS KEY:</u>	
EFERRED SUBMITTALS: . THE FOLLOWING ITEMS ARE DEFERRED SUBMITTAL ITEMS:								GRADE BEAM TAG	GRADE
- PRECAST CONCRETE . DEFERRED SUBMITTAL ITEMS SHALL BE PREPARED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF THE PROJECT WITH CALCULATIONS, DRAWINGS, DETAILS, AND CUT SHEETS SUBMITTED TO									# REFEF
THE ENGINEER OF RECORD FOR REVIEW. ONCE REVIEWED, CONTRACTOR SHALL FORWARD TO THE BUILDING DEPARTMENT FOR APPROVAL. FABRICATION AND/OR INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT OCCUR UNTIL APPROVAL OF THE BUILDING DEPARTMENT IS RECEIVED.									ON A GI
HOP DRAWING REVIEW: . J&S STRUCTURAL ENGINEERS, PA WILL REVIEW SHOP DRAWINGS AND RELATED SUBMITTALS FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT AND THE INFORMATION GIVEN IN THE CONSTRUCTION DOCUMENTS. REVIEW OF A SPECIFIC ITEM SHALL NOT INCLUDE REVIEW OF AN ASSEMBLY OF WHICH THE ITEM									
IS A COMPONENT. . THE FOLLOWING IS A LIST OF REQUIRED SHOP DRAWINGS AND RELATED SUBMITTALS. THE CONTRACTOR SHALL REFER TO THE SPECIFICATIONS FOR MORE INFORMATION AND A COMPLETE LIST OF REQUIRED SUBMITTALS:									<u>L-X</u>
- ANCHOR BOLT LAYOUT DRAWINGS - CONCRETE BLOCK COMPRESSION TESTS AND MATERIAL CERTIFICATIONS - CONCRETE MIX DESIGNS, TESTS AND MATERIAL CERTIFICATIONS								E	
- CONCRETE REINFORCING SHOP DRAWINGS AND REINFORCING MATERIAL CERTIFICATIONS - MASONRY GROUT AND AND MORTAR MIX DESIGNS - MASONRY REINFORCING SHOP DRAWINGS - STRUCTURAL STEEL SHOP DRAWINGS, MATERIAL CERTIFICATIONS AND WELDER CERTIFICATIONS									
- STEEL JOIST SHOP DRAWINGS - STEEL DECK SHOP DRAWINGS - PRECAST CONCRETE SHOP DRAWINGS									
								D	
							]		
		MAS 6" BLOCK		SPLICE L	ENGTH		12" BLOCK		
	BAR SIZE	BAR @ CL 1'-9"	BAR @ CL	BAR @ EDGE BAR ( 3'-0" 1'-		DGE BAR @ 0	CL BAR @ EDGE		
	#5 #6	2'-8"	2'-2" 3'-7"	3'-9" 2'- 4'-6" 3'-	2" 3'-3"	2'-2" 3'-4"	<u>2'-3"</u>	С	
	#7	-	5'-0"	- 3'-1	0" 5'-3"	4'-2"	5'-3"		
	GRO	EN REQUIRED S		EXCEEDS 4'-0" USE HIG TENSION SPLICES WITH				1	
	]		EPC	XY EMBE	DMENT	TABI	E		
CONCRETE SPLICE LENGTH TABLE         BAB SIZE       FOOTING OR       BIED       WALL       WALL       SLAP       COLUMN       BEAM	BEAM			EINFORCING STEEL		THREADED	ROD ANCHORS		
BAR SIZE     FOOTING OR GRADE BEAM     PIER     WALL (VERTICAL)     WALL (HORIZONTAL)     SLAB     COLUMN     BEAM (BOTTOM)       #3     -     -     1'-8"     1'-8"     -     -	(TOP)	BAR S	f'c=3,00	· · · ·	f <sup>r</sup> c=4,000 psi	ANCHOR DIAMETER	EMBEDMENT DEPTH	∎ B	
#3     1-0     1-0     1-0     1-0     1-0       #4     2'-3"     -     2'-3"     2'-3"     -     -       #5     2'-9"     2'-7"     2'-9"     2'-9"     2'-9"     2'-0"     2'-7"	- - 3'-5"	#3	5"	" 4 3/4"	2 3/4" 4 1/4"	3/8" 1/2"	5 1/4" 6 3/8"		
#6         3'-4"         3'-4"         3'-4"         3'-4"         3'-4"         2'-5"         3'-1"	4'-1"	#5			5 1/4" 6 1/2"	5/8" 3/4"	7 1/2" 10"		

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BAR SIZE	FOOTING OR GRADE BEAM	PIER	WALL (VERTICAL)	WALL (HORIZONTAL)	SLAB	COLUMN
#3	-	-	1'-8"	1'-8"	1'-8"	-
#4	2'-3"	-	2'-3"	2'-3"	2'-3"	-
#5	2'-9"	2'-7"	2'-9"	2'-9"	2'-9"	2'-0"
#6	3'-4"	3'-1"	3'-4"	3'-4'	3'-4"	2'-5"
#7	4'-10"	4'-6"	4'-10"	4'-10"	4'-10"	3'-6"
#8	5'-6"	5'-2"	5'-6"	-	-	4'-0"
#9	-	5'-10"	-	-	-	4'-6"
#10	-	6'-7"	-	-	-	5'-1"
#11	-	7'-3"	-	-	-	5'-7"

<u>NOTES:</u> 1. WHEN BARS OF DIFFERENT SIZE ARE LAP SPLICED, THE LARGER SPLICE LENGTH SHALL BE USED. 2. TOP BAR IS DEFINED AS ANY HORIZONTAL BAR THAT HAS MORE THAN 12" OF FRESH CONCRETE BELOW THE BAR. 3. TABLE SHALL ONLY BE USED WHEN: • CONCRETE IS NORMAL WEIGHT

• REINFORCEMENT STEEL IS UNCOATED • REINFORCEMENT STEEL MEETS ASTM A615, GRADE 60 '-7" 7'-3" 9'-6"

4'-6"

5'-2"

5'-10"

6'-7"

5'-11"

6'-9"

7'-7"

8'-6"

NOTES: 1. CONTRACTOR HAS THE OPTION TO EPOXY DOWELS AS AN ALTERNATE TO HOOKED OR CAST-IN-PLACE DOWELS WHERE NOTED ON DETAILS. 2. SEE GENERAL STRUCTURAL NOTES FOR APPROVED EPOXY.

8 1/2"

9 3/4"

10 3/4"

13"

7 3/4"

9"

10"

12"

7/8"

1"

1 1/4"

1 1/4"

11 1/4"

12 1/2"

15"

18"

9"

10 1/2"

11 1/2"

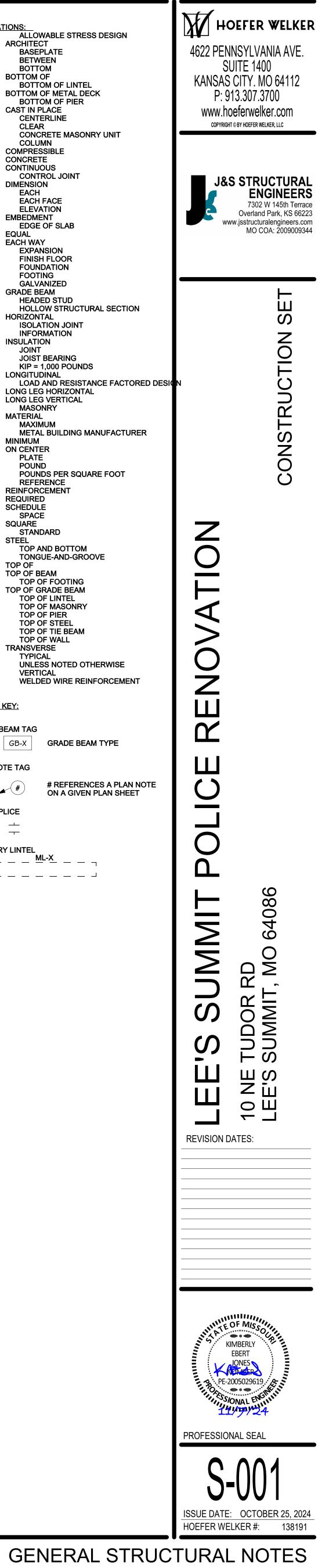
13 1/2"

#7

#8

#9

#10



2018 INTERNATIONAL BUILDING CODE <u>GENERAL NOTES:</u>	1. THE CONTRACTOR/SUPPLIER IS RESPONSIBLE FOR THE DESIGN OF CONNECTION BETWEEN THEM AND OTHER STRUCTURAL MEMBERS BY AN ENGINEER LICENSED IN THE STATE OF THE PROJECT LOCAT ARCHITECT/ENGINEER OF RECORD.
1. DESIGN AND CONSTRUCTION SHALL CONFORM TO THE 2018 INTERNATIONAL BUILDING CODE. 2. THE DRAWINGS REPRESENT THE FINISHED STRUCTURE, NOT THE METHOD	<ol> <li>ALL PRECAST MEMBERS ARE TO BE DESIGNED IN ACCORDANCE WI APPLICABLE CODES, STANDARDS (SEE SPECS) AND DESIGNED COL</li> </ol>
OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE NEW AND EXISTING STRUCTURE DURING CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, BRACING, SHORING FOR CONSTRUCTION LOADS AND EQUIPMENT, ETC. THE ARCHITECT-ENGINEER IS NOT RESPONSIBLE FOR THE CONTRACTOR'S MEANS AND METHODS, SEQUENCES OF CONSTRUCTION, OR THE SAFETY PROGRAM. OBSERVATION VISITS TO THE SITE BY THE	<ol> <li>PROVIDE BLOCKOUTS AND OPENINGS FOR MECHANICAL/ELECTRIC/ MECHANICAL/ELECTRICAL DOCUMENTS.</li> <li>SHOP DRAWINGS SHALL BE COMPLETE AND SHALL INCLUDE A LAYO</li> </ol>
ARCHITECT-ENGINEER WILL NOT INVOLVE REVIEW OF THESE ITEMS. 3. CONTRACTOR IS TO ESTABLISH AND VERIFY OPENINGS AND INSERTS FOR ITEMS TO BE INSTALLED	CAMBER, CONNECTION AND ANCHORAGE DETAILS AND MEMBER IN MARKS SHALL APPEAR ON MANUFACTURED UNITS TO FACILITATE
BY OTHER TRADES PRIOR TO SUBMITTAL OF SHOP DRAWINGS AND CONSTRUCTION. 4. CONSTRUCTION MATERIAL AND EQUIPMENT PLACED ON FRAMED CONSTRUCTIONS SHALL BE SUCH	5. REFER TO MECHNICAL/ELECTRICAL DRAWINGS FOR CONDUIT LOCA STRUCTURAL STEEL:
THAT THE LOAD DOES NOT EXCEED THE DESIGN LIVE LOAD OF THE CONSTRUCTION. PROVIDE SHORING OF CONSTRUCTIONS WHERE NECESSARY FOR LOADS.	<ol> <li>FABRICATOR SHALL BE AISC CERTIFIED IN LIEU OF THE PREVIOUS, BID THE SERVICES OF A SPECIAL INSPECTOR TO PROVIDE INSPECT WORK TO MEET THE REQUIREMENTS OF 2018 INTERNATIONAL BUIL</li> </ol>
<ol> <li>DETAILS THAT ARE NOTED AS "TYP." ON DETAIL TITLES ARE TO BE APPLIED TO THE PROJECT CONSTRUCTION AS GENERAL CONSTRUCTION METHODS UNLESS NOTED OTHERWISE.</li> <li>THESE DETAILS ARE NOT CUT AT ALL LOCATIONS THEY OCCUR AND MAY NOT BE CUT AT ALL.</li> </ol>	<ol> <li>STRUCTURAL STEEL SHALL MEET ASTM A36 UNLESS NOTED OTHER FLANGE SHAPES SHALL MEET ASTM A992.</li> </ol>
6. CONTRACTOR NOTE: PROVIDE 2 TONS OF MISCELLANEOUS STRUCTURAL STEEL SHAPES (LABOR FOR BOTH LABOR FOR DETAILING AND ERECTION INCLUDED FOR FIELD USE AS DIRECTED BY THE ARCHITECT/ENGINEER.	3. STEEL TUBES SHALL MEET ASTM A500, GRADE B.
DESIGN: ALL CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING CODES AND STANDARDS, EXCEPT	<ol> <li>STEEL PIPE SHALL MEET ASTM A53, TYPE E OR S, GRADE B.</li> <li>BOLTS SHALL BE 3/4" DIAMETER A325-N UNLESS OTHERWISE NOTEI</li> </ol>
WHERE NOTED TO THE CONTRARY ON DRAWINGS OR WHERE MORE STRINGENT REQUIREMENTS ARE SHOWN.         ACI 301       SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS.	6. FIELD BOLTING INSTALLATION SHALL BE INSPECTED IN ACCORD WI BUILDING CODE AND THE AISC LRFD MANUAL, SECOND EDITION. BO TIGHT UNLESS NOTES OTHERWISE NOTED. ASTM A-325-SC SHALL B
ACI 318       BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE         AISC 360-16       SPECIFICATIONS FOR STRUCTURAL STEEL FOR BUILDINGS         AISI-5100-16       NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL         STRUCTURAL MEMBERS         AWS D1.1       STRUCTURAL WELDING CODE	<ul> <li>INDICATOR WASHERS.</li> <li>7. ALL WELDING SHALL CONFORM TO THE PROVISIONS OF THE AMERI AWS D1.1-98. ELECTRODES SHALL MATCH BASE METALS AS SPECIF BUILDING CODE.</li> </ul>
ICC500-14 22020 ICC/NSSA STANDARD FOR THE DESIGN AND CONSTRUCTION OF STORM SHELTER DEAD LOADS:	8. ALL FIELD WELDING SHALL BE VISUALLY INSPECTED BY THE TESTIN
ROOF: 25 PSF LIVE LOADS: ROOF: 20 PSF	<ul> <li>9. HOT DIP GALVANIZE ALL STEEL MEMBERS EXPOSED TO EXTERIOR</li> <li>10. ALL STEEL BELOW GRADE SHALL BE ENCASED IN CONCRETE WHE STEEL SHALL BE THOROUGHLY COATED WITH TWO COATS OF ASPH</li> </ul>
<u>SNOW LOADS:</u> SNOW LOADS IN ACCORD WITH THE 2018 INTERNATIONAL BUILDING CODE AND ASCE 7 INCLUDING DRIFTING SNOW LOADS CHAPTER 16.	STEEL JOISTS: 1. FABRICATOR SHALL BE AN "APPROVED FABRICATOR" IN ACCORD W CODE BUILDING CODE SECTION 1704.2, REGISTERED AND APPROVE
Ce = 1.0 Ct = 1.0 Pg = 20 PSF Pf = 16.8 PSF Pf(min)=16 psf	<ol> <li>2. DESIGNED, FABRICATED AND ERECTED IN ACCORD WITH THE 2018 AND THE STANDARD SPECIFICATIONS FOR STEEL JOIST, K-SERIES, PUBLISHED BY THE STEEL JOIST INSTITUTE.</li> <li>3. SIZE, TYPE AND SPACING OF JOIST BRIDGING TO BE IN ACCORD WITH A CORD W</li></ol>
RAIN ON SNOW LOAD=5 PSF DESIGN BALANCE SNOW LOAD = 24 PSF	3. SIZE, TYPE AND SPACING OF JOIST BRIDGING TO BE IN ACCORD WI RECOMMENDATIONS. USE 'X'-BRIDGING AT DISCONTINUOUS ENDS ( TO AVOID MECHANICAL OPENINGS.
<u>WIND LOAD:</u> WIND LOADS IN ACCORD WITH THE 2018 INTERNATIONAL BUILDING CODE. ULTIMATE DESIGN WIND SPEED = 122 MPH	4. JOIST SEAT DEPTH SHALL BE 2-1/2" FOR 'K' SERIES AND 5" INCHES FO OTHERWISE.
SEISMIC LOAD: SEISMIC DESIGN IN ACCORD WITH 2018 INTERNATIONAL BUILDING CODE. IE=1.5 SEISMIC USE GROUP IV SITE CLASS = B	<ol> <li>DESIGN EXTENDED ENDS FOR SAME DEAD LOADS AS JOIST AND AS LOADS AS INDICATED. LIMIT LIVE LOAD DEFLECTION TO L/240.</li> <li>ADDITIONAL LOADS HAVE BEEN NOTED ON FRAMING PLANS. JOIST SUPPORT THE ADDITIONAL LOADS. IT IS THE JOISTS SUPPLIERS RELOAD IN ADDITION TO THE DEAD AND LIVE LOADS LISTED ON THIS SUPPLIERS AND AND LIVE LOADS LISTED AND AND AND AND LIVE LOADS LISTED AND AND AND AND AND AND AND AND AND AN</li></ol>
SITE CLASS = B MAPPED SPECTRAL RESPONSE COEFFICIENTS: Ss = 0.16 SI = 0.082 SPECTRAL RESPONSE COEFFICIENTS: SDS = 0.14 SDI = 0.12 SEISMIC DESIGN CATEGORY C PRECAST CONCRETE WALLS. Cs = 0.0569	<ul> <li>METAL DECK:</li> <li>1. METAL ROOF DECK SHALL BE DEPTH X GAUGE SHOWN ON DRAWING LAPS AND PAINTED.</li> <li>2. COMPOSITE FLOOR DECK SHALL BE DEPTH X GAUGE SHOWN ON DEPTH X GAUGE X Y X Y X Y X Y X Y X Y X Y X Y X Y X</li></ul>
LATERAL LOAD RESISTANCE SYSTEM: STEEL DECK ROOF DIAPHRAGMS TRANSFERRING LATERAL LOADS TO PRECAST CONCRETE SHEAR WALLS &	SIDE LAPS AND GALVANIZED. 3. FASTEN ROOF DECK IN ACCORD WITH METAL DECK ATTACHMENT T
BRACED FRAME SUPPORTED BY SHALLOW CONCRETE FOUNDATIONS. <u>FOUNDATIONS:</u> 1. A GEOTECHNICAL REPORT HAS NOT BEEN COMPLETED. A GEOTECHNICAL ENGINEER SHALL VERIFY SOILS PRIOR TO FOUNDATION PLACEMENT.	<ul> <li>FASTENING DETAILS. DECK ATTACHMENT SHALL BE IN ACCORD WI DECK INSTITUTE'S SECOND EDITION OF THE DIAPHRAGM DESIGN M</li> <li>4. METAL DECK ATTACHMENTS SHALL BE INSPECTED BY TESTING LAB</li> </ul>
<ol> <li>ALLOWABLE BEARING PRESSURE: 2000 PSF</li> <li>FROST DEPTH = 3'-0"</li> </ol>	MASONRY: 1. THE MINIMUM 28-DAY COMPRESSIVE STRENGTH OF THE CONCRETE ON THE NET AREA, PROVIDING A STRUCTURAL DESIGN COMPRESSI 2018 INTERNATIONAL BUILDING CODE, TABLE 2105.2.2.1.2.
4. SEE GEOTECHNICAL REPORT FOR ANY ADDITIONAL OVEREXCAVATION AND SUBGRADE PREPARATION REQUIREMENTS. ALL RECOMMENDATION IN THE GEOTECHNICAL REPORT SHALL BE FOLLOWED UNO.	2. MORTAR SHALL BE TYPE S IN ACCORD WITH THE 2018 INTERNATION MORTAR PROPORTIONS FOR UNIT MASONRY, USING CEMENT LIME
<u>STRUCTURAL BACKFILL:</u> 1. ALL BELOW-GRADE WALLS TO BE BACKFILLED WITH GRAVEL BACKFILL AS DESCRIBED IN GEOTECH REPORT.	<ul> <li>(MASONRY CEMENT IS NOT ACCEPTABLE).</li> <li>3. MINIMUM 28-DAY COMPRESSIVE STRENGTH OF GROUT SHALL BE THE MARCHINE AND ENTERING.</li> </ul>
<ol> <li>PLACE BACKFILL AND COMPACT IN 8" LIFTS PER GEOTECH REPORT.</li> <li>DESIGN EQUIVALENT FLUID PRESSURES (GRAVEL BACKFILL) ACTIVE: 35 psf/ft AT-REST: 56 psf/ft</li> </ol>	<ul> <li>COMPRESSIVE STRENGTH OF THE MASONRY UNITS. AIR ENTRAINM ACCEPTABLE IN GROUT MIX. GROUT SHALL HAVE A SLUMP OF 8 TC</li> <li>4. MASONRY REINFORCING STEEL SHALL BE ASTM A615, GRADE 60.</li> <li>5. HORIZONTAL JOINT REINFORCING SHALL BE STANDARD LADDER TO</li> </ul>
CONCRETE: 1. CONCRETE MIX DESIGNS:	5. HORIZONTAL JOINT REINFORCING SHALL BE STANDARD LADDER TY CENTER, UNLESS OTHERWISE NOTED ON PLAN.
FOOTINGS: MIN 28 DAY COMPRESSIVE STRENGTH = 4,000 PSI W/C RATIO = 0.50 MAX AGGREGATE SIZE = 3/4" SLUMP = 4" ±1"	<ol> <li>MINIMUM BOND BEAM REINFORCING SHALL BE 2 - #4 IN 6" AND 8" BO BEAMS. BOND BEAM REINFORCING SHALL BE CONTINUOUS THROU ON TYPICAL MASONRY WALL OPENING DETAIL.</li> <li>SPLICE LENGTHS FOR MASONRY REINFORCEMENT SHALL BE IN ACCURATE AND THE DRAWINGS.</li> </ol>
AIR CONTENT = $6\% \pm 1.5\%$ (ASTM C 260) WALLS:	<ol> <li>LENGTH TABLE OR AS SHOWN ON THE DRAWINGS.</li> <li>8. PROVIDE BOND BEAMS AT TOP OF ALL WALLS, AT ROOFS, STRUCTURE DRAWINGS.</li> </ol>
MIN 28 DAY COMPRESSIVE STRENGTH = 4,000 PSI W/C RATIO = 0.50 MAX AGGREGATE SIZE = 3/4" SLUMP = 4" ±1"	<ul> <li>WALLS AND WHERE SHOWN ON THE DRAWINGS.</li> <li>9. REINFORCING SHALL BE HELD IN PLACE PRIOR TO GROUTING WITH NOT EXCEEDING 192 BAR DIAMETERS NOR 10 FEET. PROVIDE POSI</li> </ul>
AIR CONTENT = 6% ±1.5% (ASTM C 260)	<ul> <li>10. VERTICAL REINFORCING SHALL BE AS FOLLOWS, UNLESS OTHERV</li> <li>8" CONC BLOCK 1-#5 @ 4'-0" OC</li> </ul>
SLAB ON GRADE: MIN 28 DAY COMPRESSIVE STRENGTH = 4,000 PSI W/C RATIO = 0.45 MAX AGGREGATE SIZE = 3/4" MAX SLUMP = 4"	11. PROVIDE 1 #5 VERTICAL REINFORCING AT JAMB OPENINGS, ENDS EACH SIDE OF CONTROL JOINTS. SPECIAL JAMB REINFORCING, WI THE PLANS.
AIR CONTENT = 1.5% (ASTM C 260) EXTERIOR CONCRETE: MIN 28 DAY COMPRESSIVE STRENGTH = 4,500 PSI	12. ELECTRICAL PANELS, CONDUITS, PIPES, FIRE EXTINGUISHER CABI AS NOT TO INTERFERE WITH REINFORCED AND/OR GROUTED CEL HORIZONTALLY THROUGH WALLS SHALL BE SLEEVED. MINIMUM S BE THREE DIAMETERS.
W/C RATIO = 0.40 MAX AGGREGATE SIZE = 3/4" SLUMP = 4"±1" AIR CONTENT = 6% ± 1.5% (ASTM C 260)	13. GROUT SHALL BE MECHANICALLY CONSOLIDATED IN A MANNER TO RECONSOLIDATED IN ACCORD WITH THE 2018 INTERNATIONAL BU
2. IF CONTRACTOR DESIRES TO INCREASE SLUMP ABOVE ALLOWABLE LIMITS TO FACILITATE PLACEMENT OR PUMPING THIS SHALL BE DONE UTILIZING AN APPROPRIATE APPROVED ADMIXTURE - NO WATER SHALL BE ADDED AT THE PROJECT SITE WITHOUT THE ENGINEER'S PERMISSION. ALL ADMIXTURES SHALL BE APPROVED IN WRITING BY THE ENGINEER.	<ol> <li>PROVIDE GROUT AND MASONRY UNIT TESTING PRIOR TO AND DUF 2018 INTERNATIONAL BUILDING CODE.</li> <li>REINFORCEMENT PLACEMENT, GROUT SPACES AND GROUTING OF LABORATORY IN ACCORD WITH THE 2018 INTERNATIONAL BUILDING</li> </ol>
3. THE CONTRACTOR SHALL REJECT ANY CONCRETE THAT EXCEEDS THE SLUMP LIMITS NOTED ABOVE OR EXCEEDS THE TOTAL ALLOWABLE MIXING TIME.	PROJECTION INTO THE GROUT SPACE SHALL NOT EXCEED 1/2 INC
<ol> <li>FLY ASH MAY BE INCLUDED IN FOUNDATION CONCRETE.</li> <li>NO ALUMINUM SHALL BE PLACED IN CONCRETE.</li> </ol>	
6. DURING HOT WEATHER (80 DEGREES F AND ABOVE, THE CONTRACTOR SHALL COMPLY WITH THE RECOMMENDATIONS ACI 305"HOT WEATHER CONCRETE." DURING COLD WEATHER (40 DEGREES F AND BELOW),	
<ul> <li>THE CONTRACTOR SHALL COMPLY WITH THE RECOMMENDATIONS OF ACI-306 "COLD WEATHER CONCRETING."</li> <li>THE CONCRETE MIX DESIGNS ARE TO BE SUBMITTED AS A FORMAL SUBMITTAL TO THE ENGINEER OF RECORD FOR REVIEW AND ACCEPTANCE. AFTER ACCEPTANCE OF THE MIX DESIGN BY THE ENGINEER OF RECORD, THE ACCEPTED DESIGNS MUST BE FORWARDED TO THE CITY INSPECTION DEPT. &amp; THE SPECIAL INSPECTOR PRIOR TO</li> </ul>	
CONCRETE BEING DELIVERED TO THE SITE. <u>CONCRETE REINFORCEMENT:</u> 1. REINFORCING STEEL SHALL BE ASTM A615, GRADE 60.	
2. CONCRETE COVER REQUIREMENTS FOR CAST-IN-PLACE, UNLESS OTHERWISE NOTED ON DETAILS:	
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3" OTHER: #6 BARS AND LARGER: 2"	
#5 BARS AND SMALLER: 1-1/2" 3. REINFORCING BAR SPLICES SHALL BE IN ACCORD WITH THE REQUIREMENTS OF ACI 318-14 AND THE REINFORCING	
SPLICE LENGTH TABLE SHOWN ON THE DRAWINGS.	

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3/8

14

1/8" = 1<sup>-</sup>

### RESPONSIBLE FOR THE DESIGN OF ALL THE PRECAST MEMBERS AND AND OTHER STRUCTURAL MEMBERS. SUBMIT DESIGN CALCULATIONS, SEALED THE STATE OF THE PROJECT LOCATION, FOR REVIEW BY THE

BE DESIGNED IN ACCORDANCE WITH ACI 318-14, 2018 IBC AND OTHER DS (SEE SPECS) AND DESIGNED CONNECTIONS. NINGS FOR MECHANICAL/ELECTRICAL EQUIPMENT. REFER TO

IPLETE AND SHALL INCLUDE A LAYOUT PLAN, FABRICATION DETAILS, ESTIMATED CHORAGE DETAILS AND MEMBER IDENTIFICATION MARKS. IDENTIFICATION IUFACTURED UNITS TO FACILITATE CORRECT FIELD PLACEMENT. CAL DRAWINGS FOR CONDUIT LOCATIONS EMBEDDED IN PRECAST MEMBERS

RTIFIED IN LIEU OF THE PREVIOUS, FABRICATOR SHALL INCLUDE IN THEIR L INSPECTOR TO PROVIDE INSPECTION/TESTING SERVICES FOR IN-SHOP ENTS OF 2018 INTERNATIONAL BUILDING CODE SECTION 1704.

T ASTM A36 UNLESS NOTED OTHERWISE. STRUCTURAL STEEL WIDE STM A992.

HALL BE INSPECTED IN ACCORD WITH THE 2018 INTERNATIONAL .RFD MANUAL, SECOND EDITION. BOLTS SHALL BE INSTALLED SNUG SE NOTED. ASTM A-325-SC SHALL BE FULLY TIGHTENED USING LOAD

TO THE PROVISIONS OF THE AMERICAN WELDING SOCIETY CODE LL MATCH BASE METALS AS SPECIFIED IN 2018 INTERNATIONAL

ISUALLY INSPECTED BY THE TESTING LABORATORY.

MEMBERS EXPOSED TO EXTERIOR TO MEET ASTM 525 G60. LL BE ENCASED IN CONCRETE WHERE POSSIBLE; IF NOT POSSIBLE, COATED WITH TWO COATS OF ASPHALTIC PAINT.

ROVED FABRICATOR" IN ACCORD WITH THE 2018 INTERNATION BUILDING 1704.2, REGISTERED AND APPROVED BY THE LOCAL BUILDING DEPARTMENT. ECTED IN ACCORD WITH THE 2018 INTERNATION BUILDING CODE CHAPTER 22 TIONS FOR STEEL JOIST, K-SERIES, LH-SERIES, DLH-SERIES AND JOIST GIRDERS, INSTITUTE.

ST BRIDGING TO BE IN ACCORD WITH STEEL JOIST INSTITUTE RIDGING AT DISCONTINUOUS ENDS OF BRIDGING. LOCATE BRIDGING

<sup>/</sup>2" FOR 'K' SERIES AND 5" INCHES FOR 'LH' SERIES UNLESS NOTED

AME DEAD LOADS AS JOIST AND A SNOW LOAD OF 40 PSF, AND OTHER E LOAD DEFLECTION TO L/240. NOTED ON FRAMING PLANS. JOISTS SHALL BE DESIGNED TO DS. IT IS THE JOISTS SUPPLIERS RESPONSIBILITY TO DESIGN JOIST FOR ANY AND LIVE LOADS LISTED ON THIS SHEET.

EPTH X GAUGE SHOWN ON DRAWINGS(22 GA. MIN.), WITH NESTABLE SIDE

L BE DEPTH X GAUGE SHOWN ON DRAWING (22 GA MIN.), WITH NESTABLE WITH METAL DECK ATTACHMENT TYPES NOTED ON THE PLANS AND ACHMENT SHALL BE IN ACCORD WITH VULCRAFT AND THE STEEL TION OF THE DIAPHRAGM DESIGN MANUAL OR APPROVED EQUAL.

SIVE STRENGTH OF THE CONCRETE MASONRY UNITS SHALL BE 1900 PSI STRUCTURAL DESIGN COMPRESSIVE STRENGTH OF 1500 PSI PER THE

CODE, TABLE 2105.2.2.1.2. CORD WITH THE 2018 INTERNATIONAL BUILDING CODE, TABLE NO. 2103.7(1), IT MASONRY, USING CEMENT LIME OR MORTAR CEMENT MIXES. EPTABLE).

STRENGTH OF GROUT SHALL BE THE GREATER OF 2500 PSI OR THE HE MASONRY UNITS. AIR ENTRAINMENT AND OTHER ADDITIVES ARE NOT ROUT SHALL HAVE A SLUMP OF 8 TO 11 INCHES. SHALL BE ASTM A615, GRADE 60.

NG SHALL BE STANDARD LADDER TYPE, GALVANIZED, AT 16-INCHES ON IOTED ON PLAN.

CING SHALL BE 2 - #4 IN 6" AND 8" BOND BEAMS AND 2 - #5 IN 12" BOND ING SHALL BE CONTINUOUS THROUGH CONTROL JOINTS EXCEPT AS NOTED

ENING DETAIL. REINFORCEMENT SHALL BE IN ACCORD WITH THE REINFORCING SPLICE N THE DRAWINGS.

OF ALL WALLS, AT ROOFS, STRUCTURAL FLOORS, OVER ALL OPENINGS IN THE DRAWINGS.

N PLACE PRIOR TO GROUTING WITH WIRE POSITIONERS PLACED AT INTERVALS TERS NOR 10 FEET. PROVIDE POSITIONERS AT REINFORCING SPLICES. L BE AS FOLLOWS, UNLESS OTHERWISE NOTED ON THE PLANS OR DETAILS.

ORCING AT JAMB OPENINGS, ENDS AND CORNERS OF ALL WALLS AND S. SPECIAL JAMB REINFORCING, WHERE REQUIRED, IS CALLED OUT ON

IS, PIPES, FIRE EXTINGUISHER CABINETS, ETC., ARE TO BE LOCATED SO EINFORCED AND/OR GROUTED CELLS. PIPES AND CONDUITS PASSING LS SHALL BE SLEEVED. MINIMUM SPACING OF SLEEVES SHALL

LY CONSOLIDATED IN A MANNER TO FILL THE GROUT SPACE AND WITH THE 2018 INTERNATIONAL BUILDING CODE.

Y UNIT TESTING PRIOR TO AND DURING CONSTRUCTION IN ACCORD WITH THE CODE.

GROUT SPACES AND GROUTING OPERATION SHALL BE INSPECTED BY TESTING THE 2018 INTERNATIONAL BUILDING CODE REQUIREMENTS. MORTAR FIN SPACE SHALL NOT EXCEED 1/2 INCH.

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- 4. A

- 3. Tł
- 4. TH
- 5. T

6		3		2			1		
		0		-			1	ABBREVIATIONS: ASDALLOW	VABLE ST
<u>OST-INSTALLED ANCHORS:</u> . EXPANSION BOLTS INSTALLED IN CONCRETE OR MASONRY SHALL BE HILTI KWIK BOLT TZ ANCHORS OR APPROVED EQUAL WITH EMBEDMENT NOTED ON THE DRAWINGS OR EMBEDMENT AS RECOMMENDED BY								ARCH ARCHITEC BPL BASEP BTW BETWE	CT PLATE EEN
MANUFACTURER WHERE NO EMBEDMENT IS SHOWN. INSTALL IN ACCORD WITH MANUFACTURER'S RECOMMENDATIONS AND ICC-ES REPORTS ESR-4266. . SCREW ANCHORS SHALL BE KWIK HUS-EZ-SS316 CONCRETE ANCHORS BY HILTI, INC. OR APPROVED								BOMD BOTTOM C	of om of lin of metal
EQUAL. INSTALL IN ACCORD WITH MANUFACTURER'S RECOMMENDATIONS AND ICC-ES REPORT ESR-3027 ADHESIVE ANCHORS SHALL BE HILTI: -HIT-HY 200 SAFE SET SYSTEM WITH THE HILTI HIT-Z ROD OR HAS THREADED ROD, PER ICC ESR 3187								CIP CAST IN PI	ERLINE
-HIT-HY SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT (TE-CD OR TE-YD) WITH HAS -E THREADED ROD PER ICC-3187 -HIT-RE 500 V3 EPOXY ADHESIVE ANCHORING SYSTEM WITH THREADED ROD PER ESR-3814									RETE MAS MN SSIBLE
. ANCHORS ARE NOT TO BE INSTALLED UNTIL CONCRETE OR GROUT HAS REACHED ITS DESIGN STRENGTH. IRE RATINGS:								CONT CONTINUC CJ CONTE DIM DIMENSIO	ous Rol Join <sup>.</sup>
. FOR FIRE-RATING REQUIREMENTS AND METHODS, SEE ARCHITECTURAL DRAWINGS. <u>PECIAL STRUCTURAL INSPECTIONS</u> : . IN ACCORD WITH THE 2018 INTERNATIONAL BUILDING CODE, SECTION 1704, AS NOTED BELOW. TESTING								EA EACH EF EACH I ELEV ELEVA EMBED EMBEDME	TION
AND INSPECTION SHALL BE BY AN INDEPENDENT TESTING/INSPECTION FIRM, UNDER THE SUPERVISION OF A LICENSED ENGINEER EMPLOYED BY THAT FIRM. THE BASIS FOR WELDING INSPECTOR QUALIFICATION SHALL BE AWS D1.1.								EOS EDGE EQ EQUAL I EW EACH WAY EXP EXPAN	
. SPECIAL INSPECTION IS TO BE PROVIDED IN ADDITION TO THE INSPECTIONS CONDUCTED BY THE LOCAL DEPARTMENT OF BUILDING SAFETY AND SHALL NOT BE CONSTRUED TO RELIEVE THE OWNER OR HIS AUTHORIZED AGENT FROM REQUESTING THE PERIODIC AND CALLED INSPECTIONS REQUIRED BY THE 2018								FF FINISH	i floor Dation Ing
INTERNATIONAL BUILDING CODE. . THE INSPECTOR SHALL OBSERVE THE WORK ASSIGNED TO BE CERTAIN IT CONFORMS WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS.								GB GRADE BE HS HEADE HSS HOLLC	EAM ED STUD DW STRU(
. THE INSPECTOR SHALL FURNISH DAILY INSPECTION REPORTS ON THE WORK TO THE BUILDING OFFICIAL AND TO THE ENGINEER OF RECORD FOR CONFORMANCE TO THE CONTRACT DOCUMENTS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, AND, IF								INFO INFOR INSUL INSULATIO	tion Join Rmation On
UNCORRECTED, TO THE ENGINEER OF RECORD AND THE BUILDING OFFICIAL. . THE TESTING/INSPECTION FIRM'S ENGINEER SHALL COMPLETE, SIGN AND SEAL A FINAL REPORT CERTIFYING THAT TO THE BEST OF HIS KNOWLEDGE, THE WORK IS IN CONFORMANCE WITH THE CONTRACT DOCUMENTS.									BEARING 1,000 POU
STATEMENT OF SPECIAL INSPECTION								LRFD LOAD A LLH LONG LEG H LLV LONG LEG MAS MASON	<b>VERTICA</b>
IBC CODE REFERENCECONSTRUCTION TYPEFREQUENCY CONT. PER1705.2STEEL CONSTRUCTION								MAT'L MATERIAL MAX MAXIM	-
1. INSPECTION OF WELDING       X         2. INSPECTION OF HIGH STRENGTH BOLTING       X         1705.3       REINFORCED CONCRETE         1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS AND       X								OC ON CENTE PL PLATE LB POUNE	E D
PLACEMENT.       3. INSPECTION OF ANCHORS CAST IN CONCRETE         4. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.       X								PSF POUNE — REF REFER REINF REINFORC REQ'D REQUIRED	CEMENT
5. VERIFYING USE OF REQUIRED MIX DESIGN       X         6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS,       X         PERFORM SLUMP AND AIR CONTENT TESTS AND DETERMINE THE TEMPERATURE OF THE       V         CONCRETE.       V								SCHED SCHEDULE SPA SPACE SQ SQUARE STD STAND	Ξ
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION       X         TECHNIQUES.       8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.       X									ND BOTT( UE-AND-G
1705.4     MASONRY CONSTRUCTION       1. VERIFY PROPORTIONS OF SITE-PREPARED MORTAR, CONSTRUCTION OF MORTAR     X       JOINTS, LOCATION OF REINFORCEMENT, CONNECTORS AND ANCHORAGES AS     X								TOBM TOP OF BE TOF TOP O TOGB TOP OF GE	F FOOTIN
CONSTRUCTION BEGINS.       2.         2. VERIFY GROUT SPACING, GRADE AND SIZE OF REINFORCEMENT AND ANCHORS,       X         PLACEMENT OF REINFORCING AND CONNECTIONS, PROPORTIONS OF SITE PREPARED       X         GROUT PRIOR TO GROUTING.       X								TOMTOP OTOPTOP OTOSTOP O	OF MASON OF PIER OF STEEL
3. VERIFY THE PLACEMENT OF GROUT.     X       1705.6     SOILS       1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE     X       ADEQUATE BEARING CAPACITY.     X									AL
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED       X         PROPER MATERIAL.       X         3. PERFORM CLASSIFICATION AND TESTING OF THE COMPACTED FILL MATERIALS.       X								VERT VERTIC	SS NOTED CAL ED WIRE I
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING X PLACEMENT AND COMPACTION OF COMPACTED FILL. 5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT X SITE HAS BEEN PREPARED PROPERLY.								<u>SYMBOLS KEY:</u>	
EFERRED SUBMITTALS: . THE FOLLOWING ITEMS ARE DEFERRED SUBMITTAL ITEMS:								GRADE BEAM TAG	GRADE
- PRECAST CONCRETE . DEFERRED SUBMITTAL ITEMS SHALL BE PREPARED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF THE PROJECT WITH CALCULATIONS, DRAWINGS, DETAILS, AND CUT SHEETS SUBMITTED TO									# REFEF
THE ENGINEER OF RECORD FOR REVIEW. ONCE REVIEWED, CONTRACTOR SHALL FORWARD TO THE BUILDING DEPARTMENT FOR APPROVAL. FABRICATION AND/OR INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT OCCUR UNTIL APPROVAL OF THE BUILDING DEPARTMENT IS RECEIVED.									ON A GI
HOP DRAWING REVIEW: . J&S STRUCTURAL ENGINEERS, PA WILL REVIEW SHOP DRAWINGS AND RELATED SUBMITTALS FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT AND THE INFORMATION GIVEN IN THE CONSTRUCTION DOCUMENTS. REVIEW OF A SPECIFIC ITEM SHALL NOT INCLUDE REVIEW OF AN ASSEMBLY OF WHICH THE ITEM									
IS A COMPONENT. . THE FOLLOWING IS A LIST OF REQUIRED SHOP DRAWINGS AND RELATED SUBMITTALS. THE CONTRACTOR SHALL REFER TO THE SPECIFICATIONS FOR MORE INFORMATION AND A COMPLETE LIST OF REQUIRED SUBMITTALS:									<u>L-X</u>
- ANCHOR BOLT LAYOUT DRAWINGS - CONCRETE BLOCK COMPRESSION TESTS AND MATERIAL CERTIFICATIONS - CONCRETE MIX DESIGNS, TESTS AND MATERIAL CERTIFICATIONS								E	
- CONCRETE REINFORCING SHOP DRAWINGS AND REINFORCING MATERIAL CERTIFICATIONS - MASONRY GROUT AND AND MORTAR MIX DESIGNS - MASONRY REINFORCING SHOP DRAWINGS - STRUCTURAL STEEL SHOP DRAWINGS, MATERIAL CERTIFICATIONS AND WELDER CERTIFICATIONS									
- STEEL JOIST SHOP DRAWINGS - STEEL DECK SHOP DRAWINGS - PRECAST CONCRETE SHOP DRAWINGS									
								D	
							]		
		MAS 6" BLOCK		SPLICE L	ENGTH		12" BLOCK		
	BAR SIZE	BAR @ CL 1'-9"	BAR @ CL	BAR @ EDGE BAR ( 3'-0" 1'-		DGE BAR @ 0	CL BAR @ EDGE		
	#5 #6	2'-8"	2'-2" 3'-7"	3'-9" 2'- 4'-6" 3'-	2" 3'-3"	2'-2" 3'-4"	<u>2'-3"</u>	С	
	#7	-	5'-0"	- 3'-1	0" 5'-3"	4'-2"	5'-3"		
	GRO	EN REQUIRED S		EXCEEDS 4'-0" USE HIG TENSION SPLICES WITH				1	
	]		EPC	XY EMBE	DMENT	TABI	E		
CONCRETE SPLICE LENGTH TABLE         BAB SIZE       FOOTING OR       BIED       WALL       WALL       SLAP       COLUMN       BEAM	BEAM			EINFORCING STEEL		THREADED	ROD ANCHORS		
BAR SIZE     FOOTING OR GRADE BEAM     PIER     WALL (VERTICAL)     WALL (HORIZONTAL)     SLAB     COLUMN     BEAM (BOTTOM)       #3     -     -     1'-8"     1'-8"     -     -	(TOP)	BAR S	f'c=3,00	· · · ·	f <sup>r</sup> c=4,000 psi	ANCHOR DIAMETER	EMBEDMENT DEPTH	∎ B	
#3     1-0     1-0     1-0     1-0     1-0       #4     2'-3"     -     2'-3"     2'-3"     -     -       #5     2'-9"     2'-7"     2'-9"     2'-9"     2'-9"     2'-0"     2'-7"	- - 3'-5"	#3	5"	" 4 3/4"	2 3/4" 4 1/4"	3/8" 1/2"	5 1/4" 6 3/8"		
#6         3'-4"         3'-4"         3'-4"         3'-4"         3'-4"         2'-5"         3'-1"	4'-1"	#5			5 1/4" 6 1/2"	5/8" 3/4"	7 1/2" 10"		

- 2. T

BAR SIZE	FOOTING OR GRADE BEAM	PIER	WALL (VERTICAL)	WALL (HORIZONTAL)	SLAB	COLUMN
#3	-	-	1'-8"	1'-8"	1'-8"	-
#4	2'-3"	-	2'-3"	2'-3"	2'-3"	-
#5	2'-9"	2'-7"	2'-9"	2'-9"	2'-9"	2'-0"
#6	3'-4"	3'-1"	3'-4"	3'-4'	3'-4"	2'-5"
#7	4'-10"	4'-6"	4'-10"	4'-10"	4'-10"	3'-6"
#8	5'-6"	5'-2"	5'-6"	-	-	4'-0"
#9	-	5'-10"	-	-	-	4'-6"
#10	-	6'-7"	-	-	-	5'-1"
#11	-	7'-3"	-	-	-	5'-7"

<u>NOTES:</u> 1. WHEN BARS OF DIFFERENT SIZE ARE LAP SPLICED, THE LARGER SPLICE LENGTH SHALL BE USED. 2. TOP BAR IS DEFINED AS ANY HORIZONTAL BAR THAT HAS MORE THAN 12" OF FRESH CONCRETE BELOW THE BAR. 3. TABLE SHALL ONLY BE USED WHEN: • CONCRETE IS NORMAL WEIGHT

• REINFORCEMENT STEEL IS UNCOATED • REINFORCEMENT STEEL MEETS ASTM A615, GRADE 60 '-7" 7'-3" 9'-6"

4'-6"

5'-2"

5'-10"

6'-7"

5'-11"

6'-9"

7'-7"

8'-6"

NOTES: 1. CONTRACTOR HAS THE OPTION TO EPOXY DOWELS AS AN ALTERNATE TO HOOKED OR CAST-IN-PLACE DOWELS WHERE NOTED ON DETAILS. 2. SEE GENERAL STRUCTURAL NOTES FOR APPROVED EPOXY.

8 1/2"

9 3/4"

10 3/4"

13"

7 3/4"

9"

10"

12"

7/8"

1"

1 1/4"

1 1/4"

11 1/4"

12 1/2"

15"

18"

9"

10 1/2"

11 1/2"

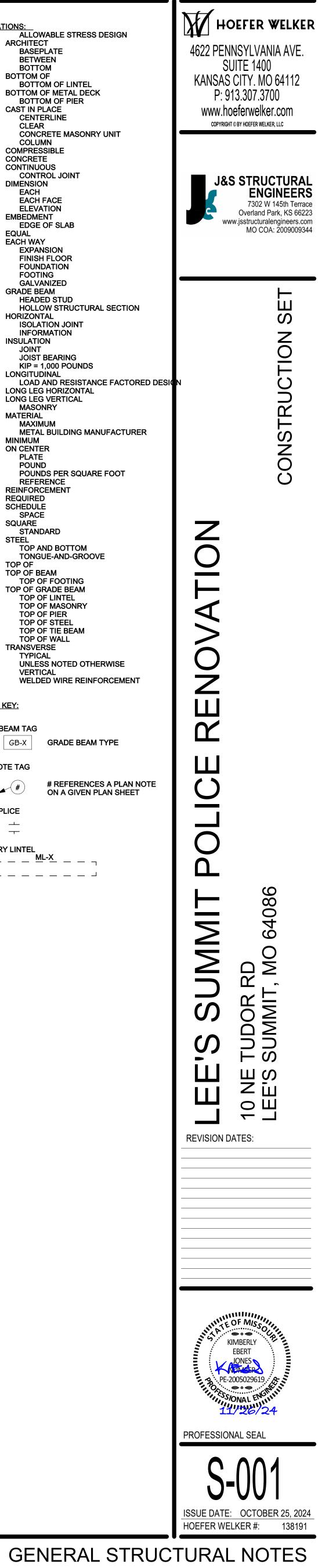
13 1/2"

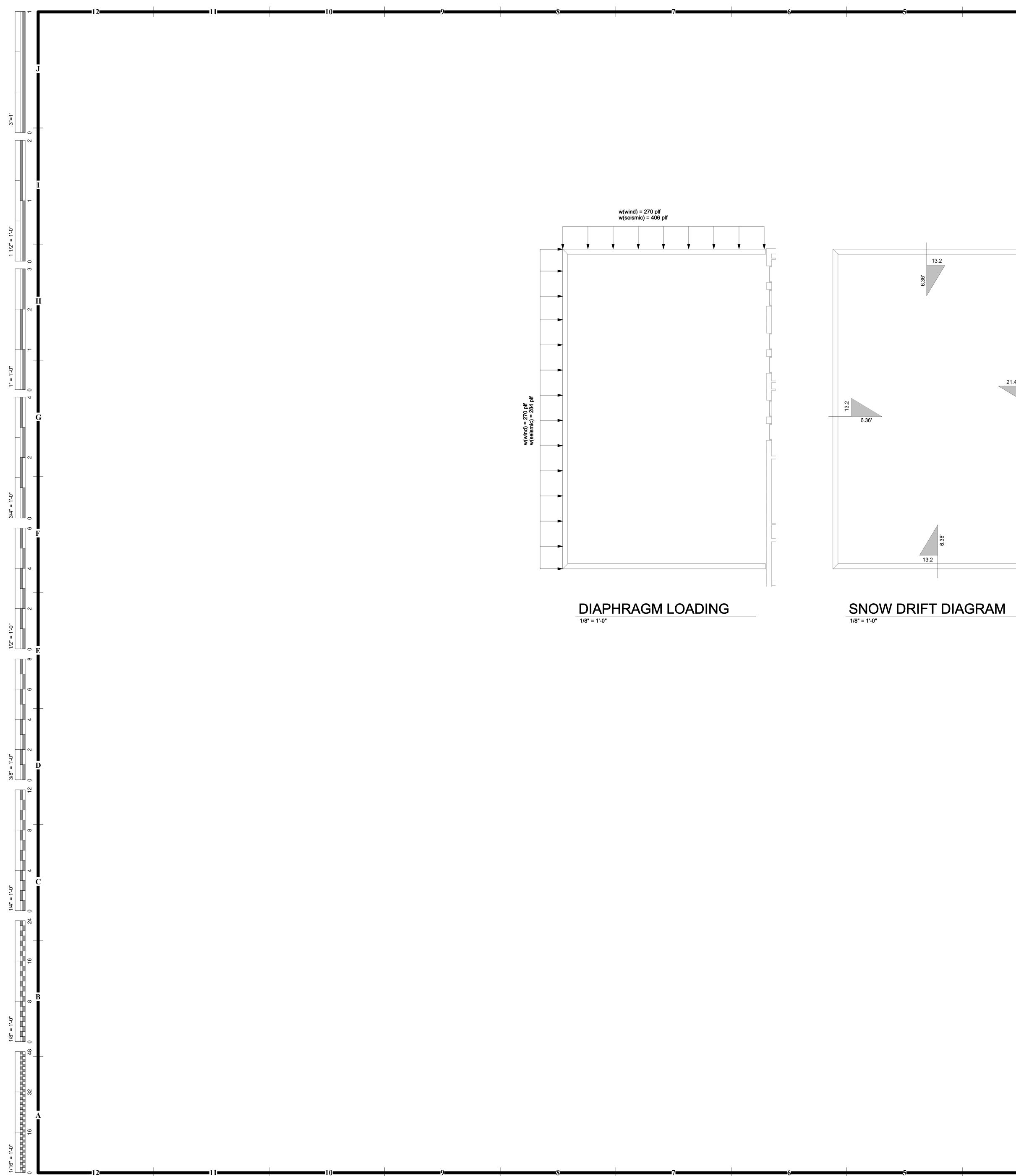
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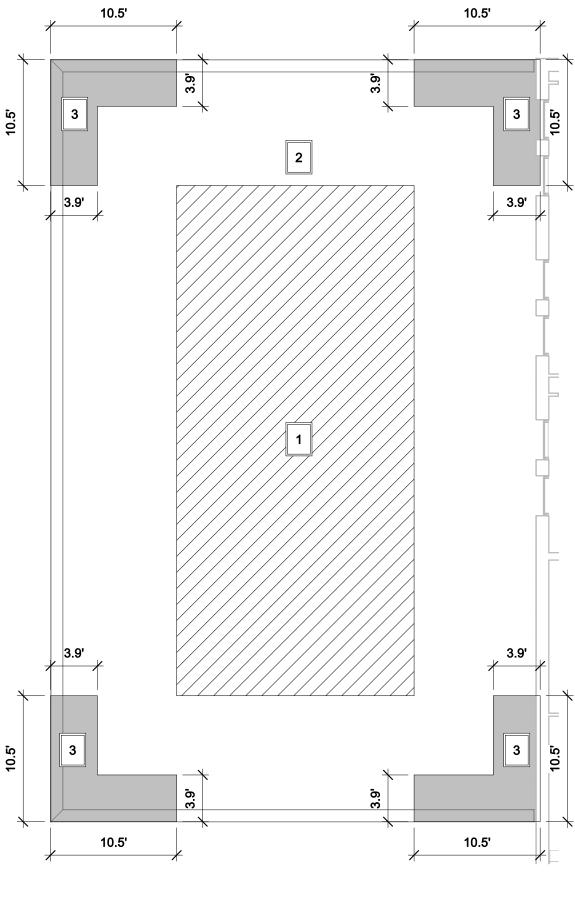
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#9

#10



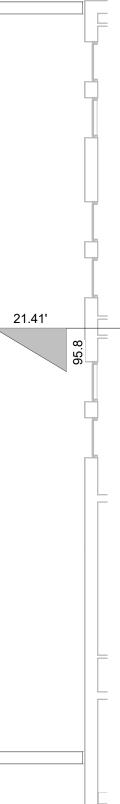




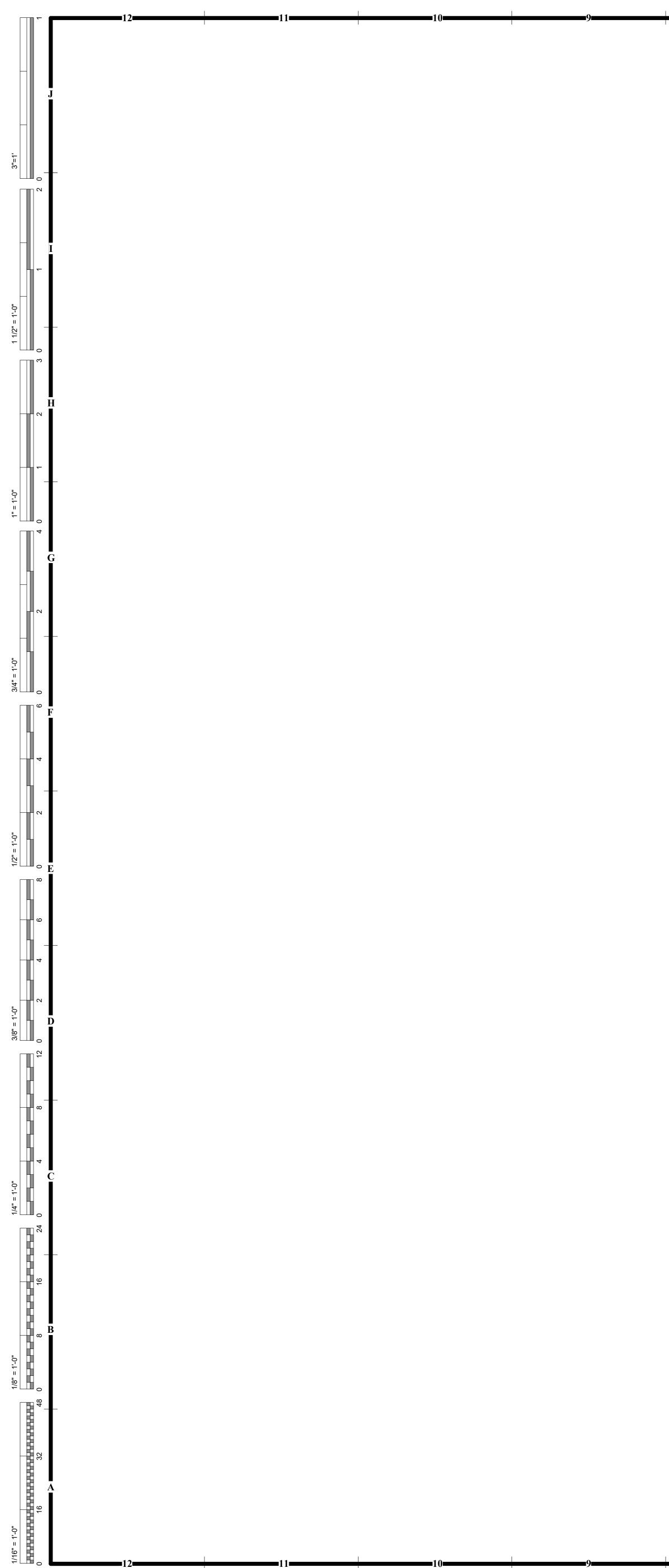
### WIND LOADING

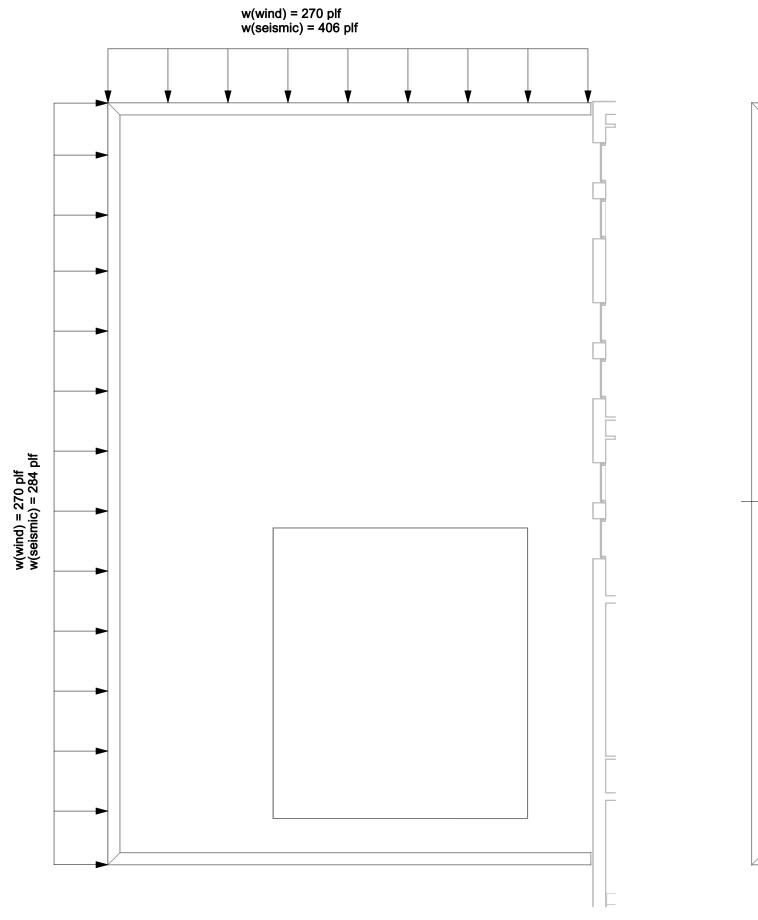
	Component	Zone	+ Pressure	- Pressure		Component	Zone	+ Pressure	- Pressure
	<=10 SF	1	13.6	-53.3		<=10 SF	4	30.6	-33.2
	100 SF	1	10.8	-41.6		50 SF	4	27.5	-30.0
	200 SF	1	10.8	-38.1		200 SF	4	24.7	-27.3
	>500 SF	1	10.8	-33.4		>500 SF	4	23.0	-25.5
	<=10 SF	2	30.6	-70.3		<=10 SF	5	30.6	-40.8
	100 SF	2	26.1	-55.3		50 SF	5	27.5	-34.5
	200 SF	2	24.7	-50.7	_	200 SF	5	24.7	-29.1
	>500 SF	2	23.0	-44.8	WALL	>500 SF	5	23.0	-25.5
	<=10 SF	3	30.6	-70.3		<=10 SF	4	45.9	-49.8
	100 SF	3	26.1	55.3		50 SF	4	41.3	-45.0
Ŀ	200 SF	3	24.7	-50.7		<=10 SF	5	45.9	-61.2
ROOF	>500 SF	3	23.0	-44.8	PARAP	50 SF	5	41.3	-51.8

COMPONENTS AND CLADDING PRESSURES:

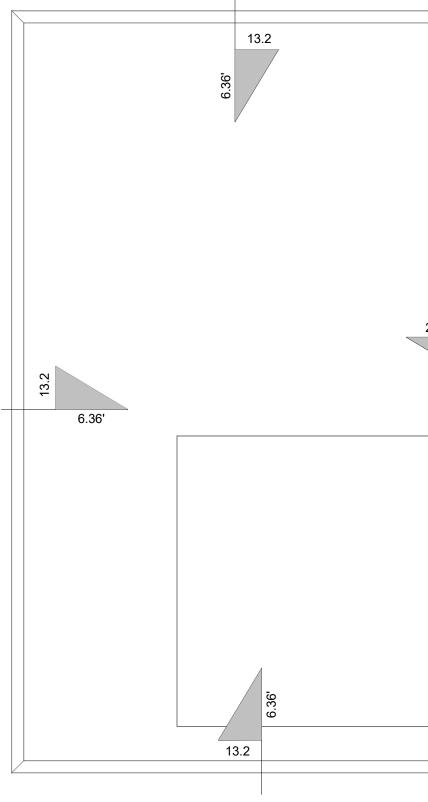




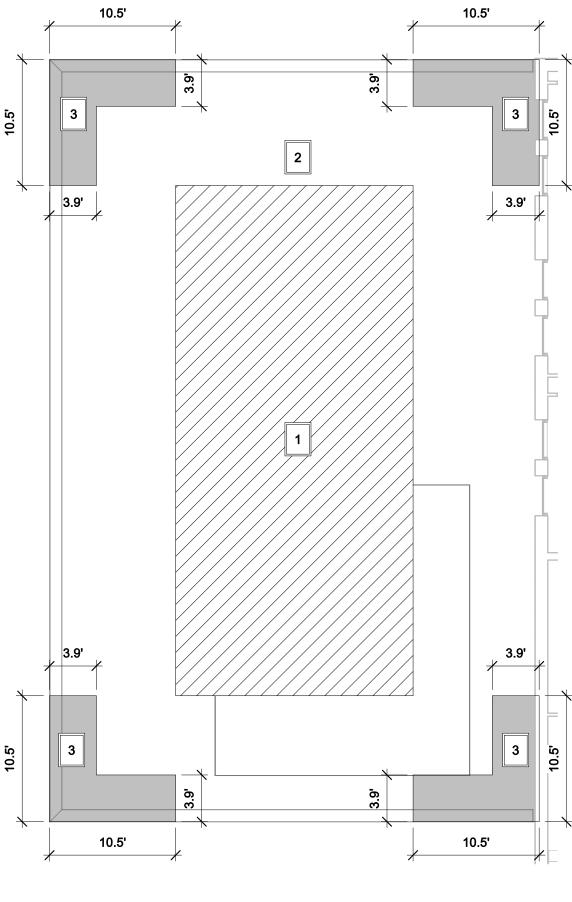




DIAPHRAGM LOADING



SNOW DRIFT DIAGRAM

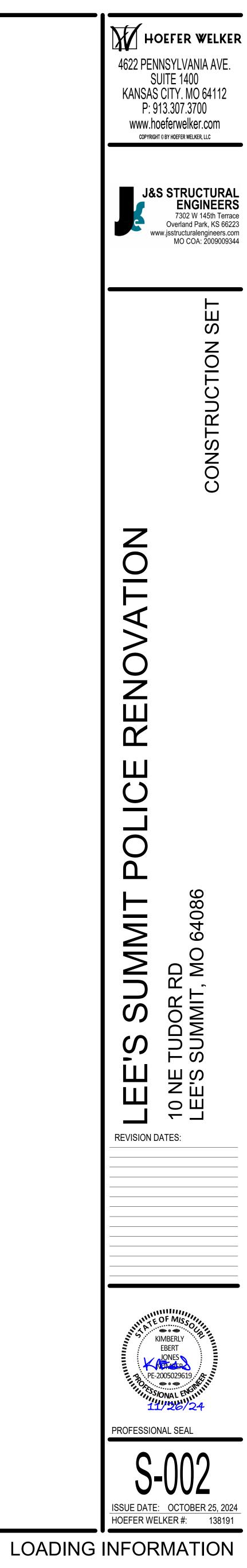


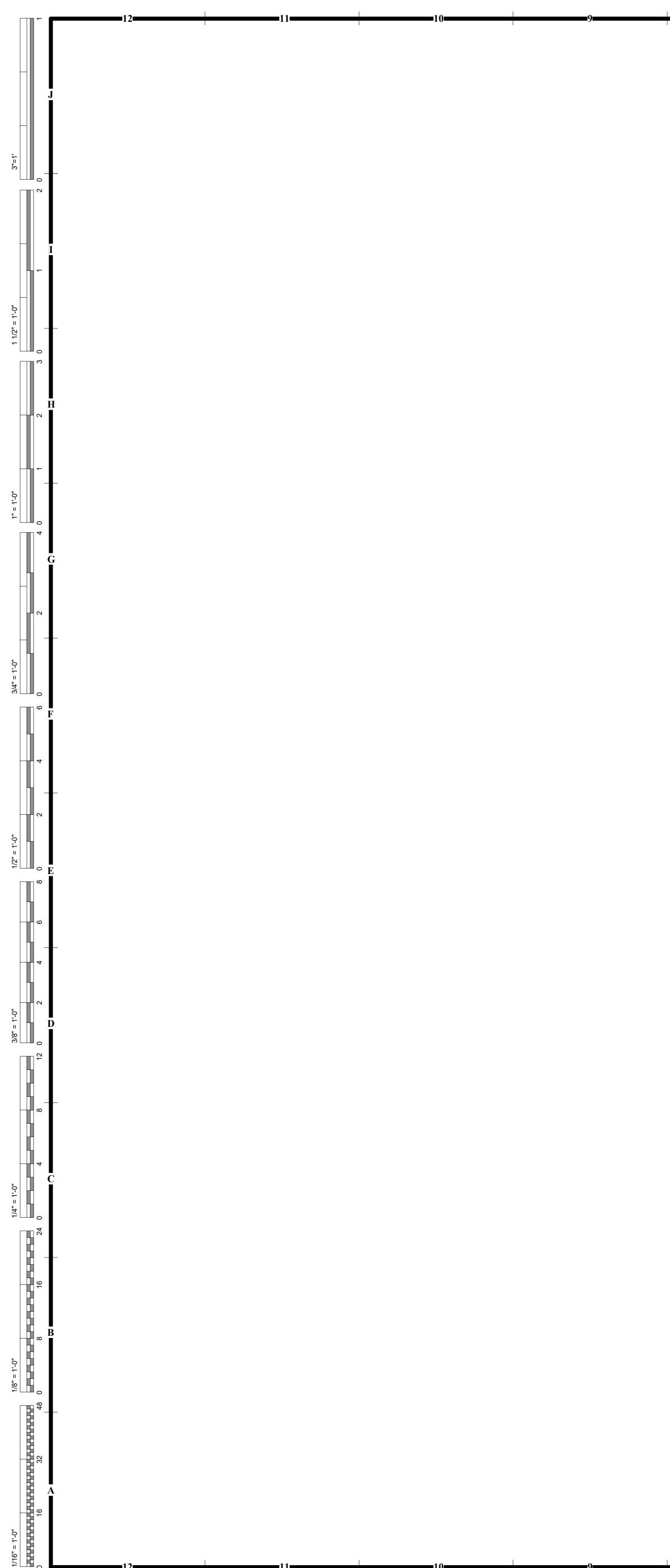
### WIND LOADING

	Component	Zone	+ Pressure	- Pressure		Component	Zone	+ Pressure	- Pressure
	<=10 SF	1	13.6	-53.3		<=10 SF	4	30.6	-33.2
	100 SF	1	10.8	-41.6		50 SF	4	27.5	-30.0
	200 SF	1	10.8	-38.1		200 SF	4	24.7	-27.3
	>500 SF	1	10.8	-33.4		>500 SF	4	23.0	-25.5
	<=10 SF	2	30.6	-70.3		<=10 SF	5	30.6	-40.8
	100 SF	2	26.1	-55.3		50 SF	5	27.5	-34.5
	200 SF	2	24.7	-50.7		200 SF	5	24.7	-29.1
	>500 SF	2	23.0	-44.8	WALL	>500 SF	5	23.0	-25.5
	<=10 SF	3	30.6	-70.3		<=10 SF	4	45.9	-49.8
	100 SF	3	26.1	55.3		50 SF	4	41.3	-45.0
DF	200 SF	3	24.7	-50.7		<=10 SF	5	45.9	-61.2
ROOF	>500 SF	3	23.0	-44.8	PARAP	50 SF	5	41.3	-51.8

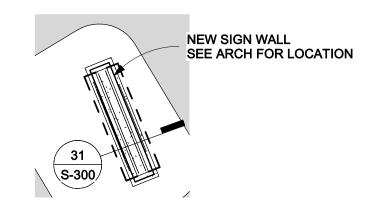
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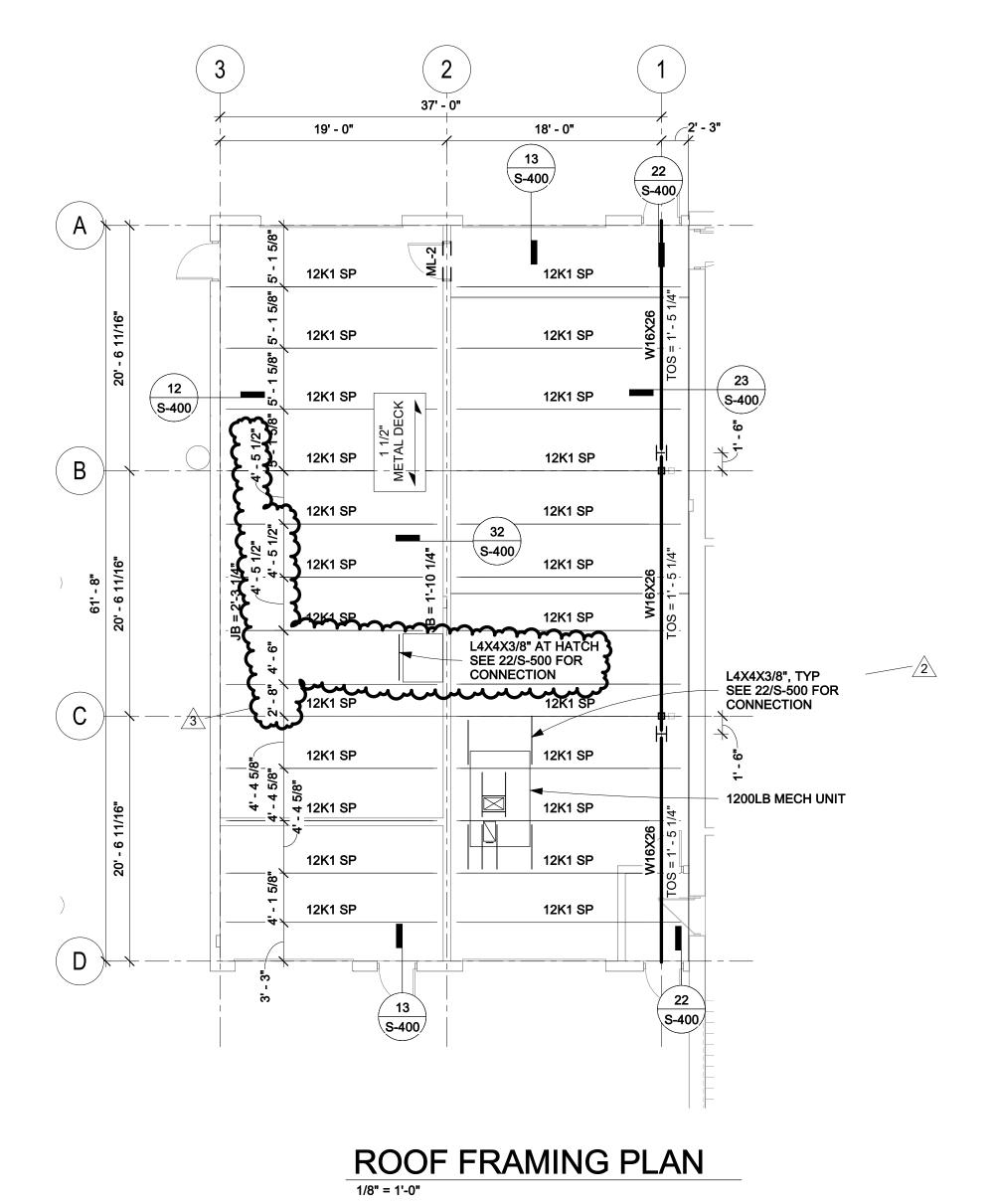
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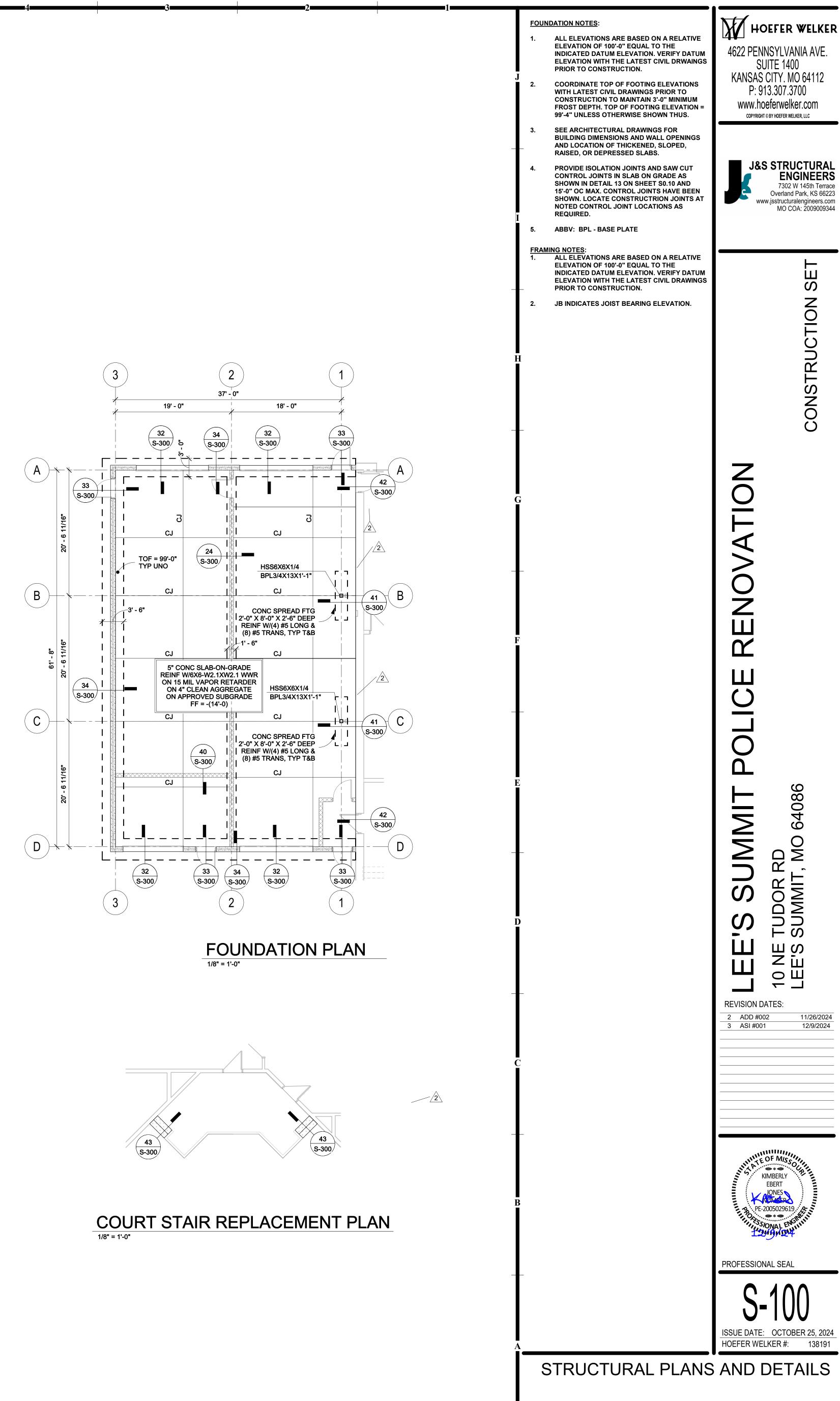


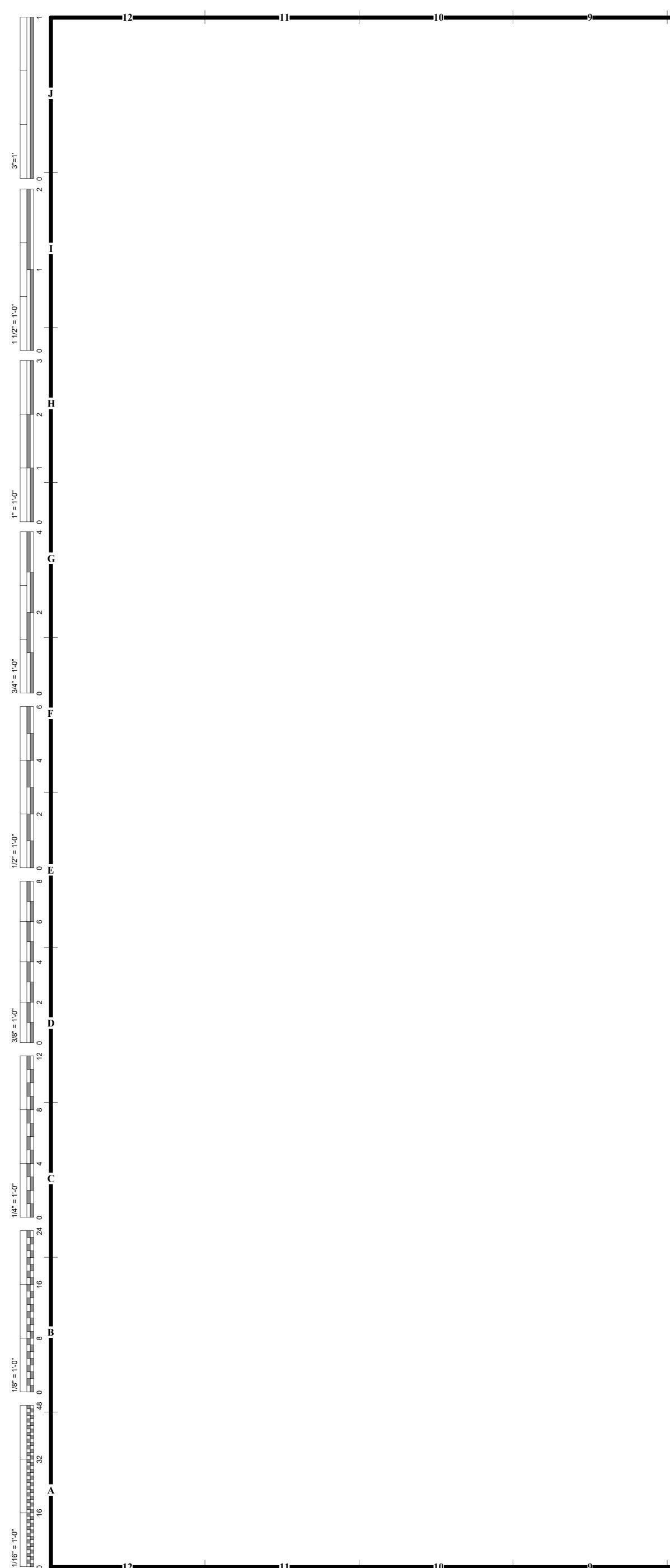


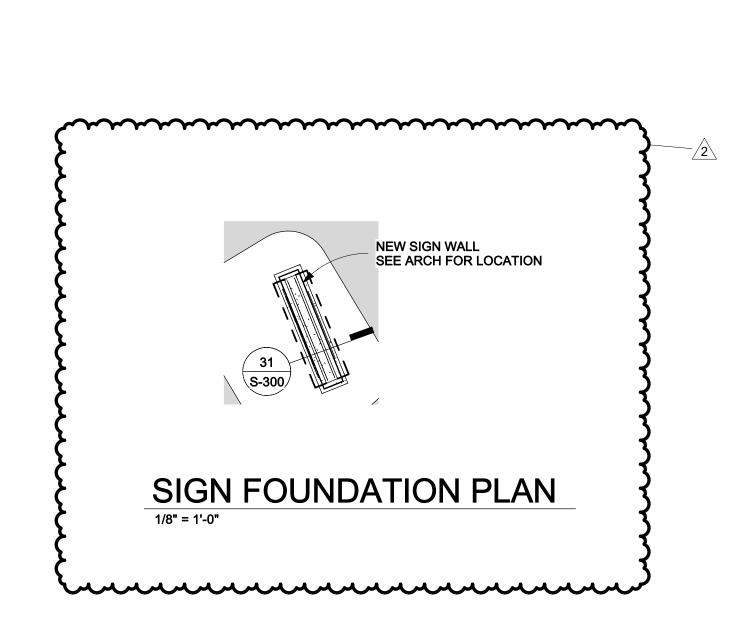
### SIGN FOUNDATION PLAN 1/8" = 1'-0"

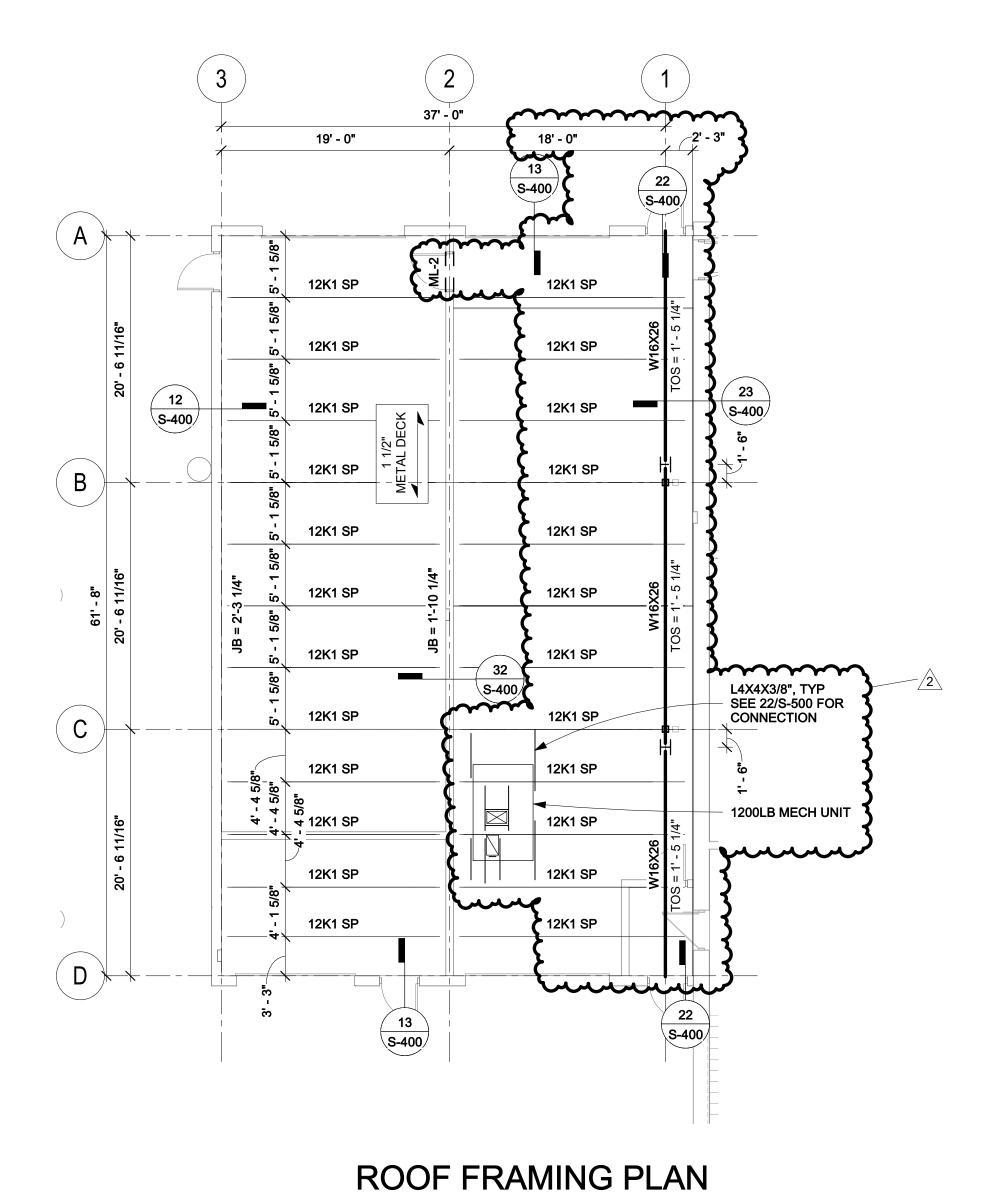




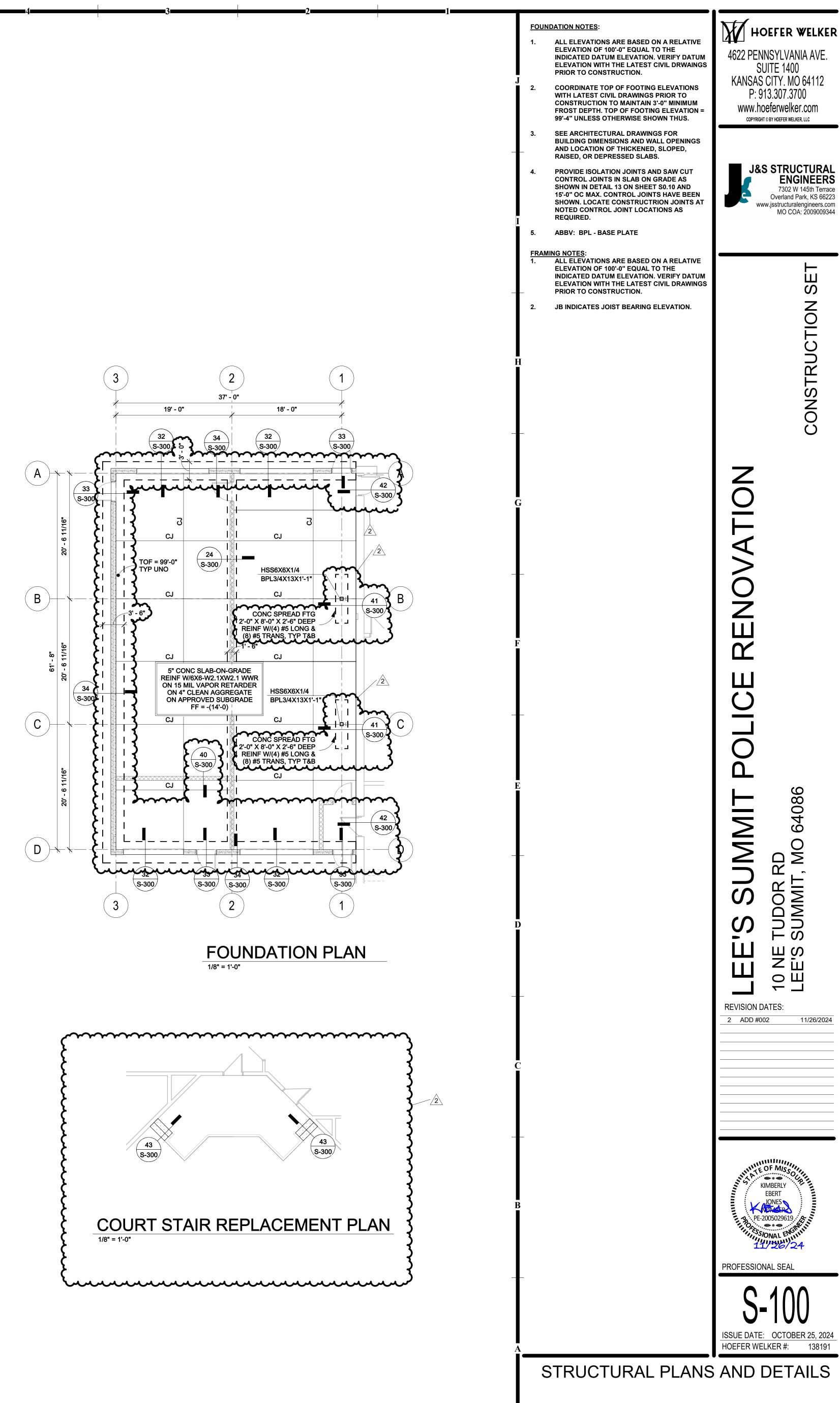


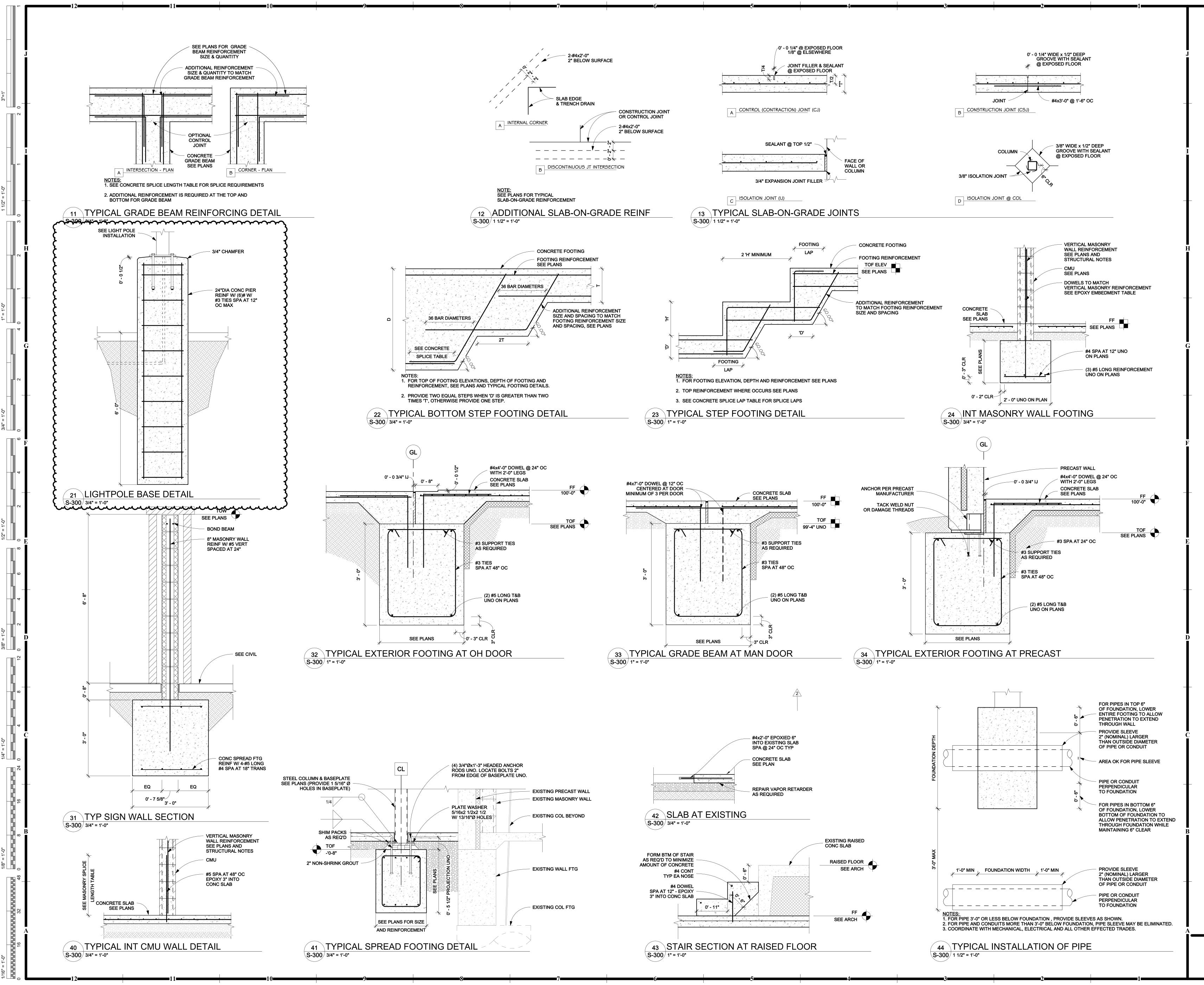






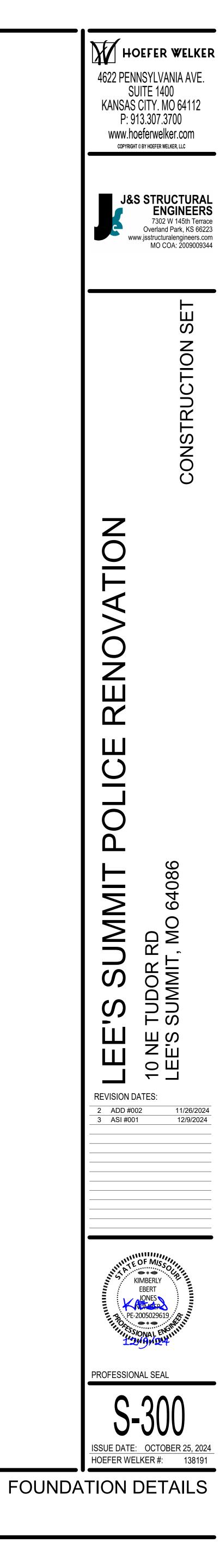
1/8" = 1'-0"

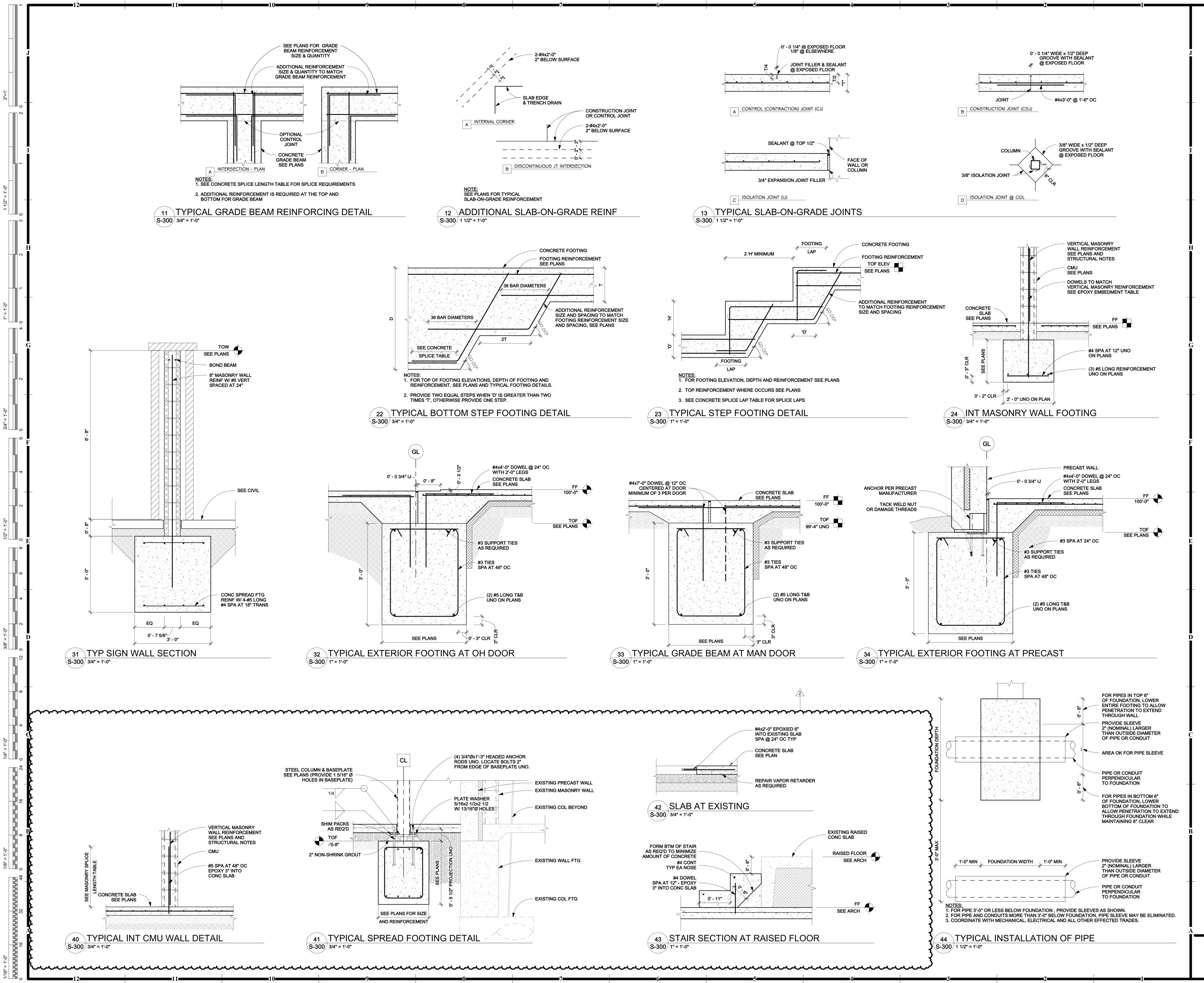




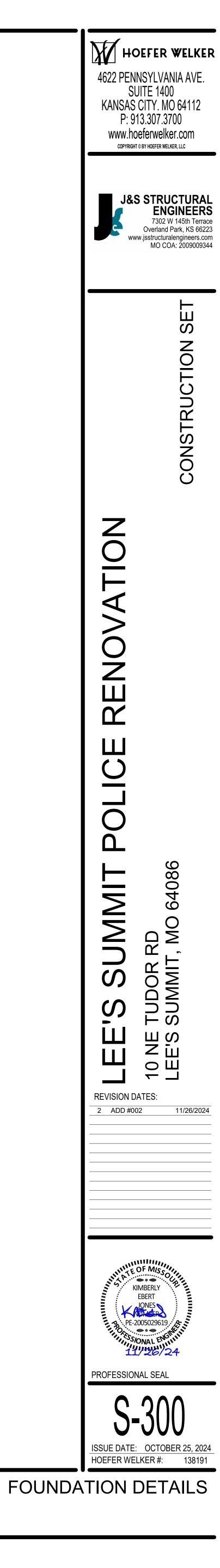
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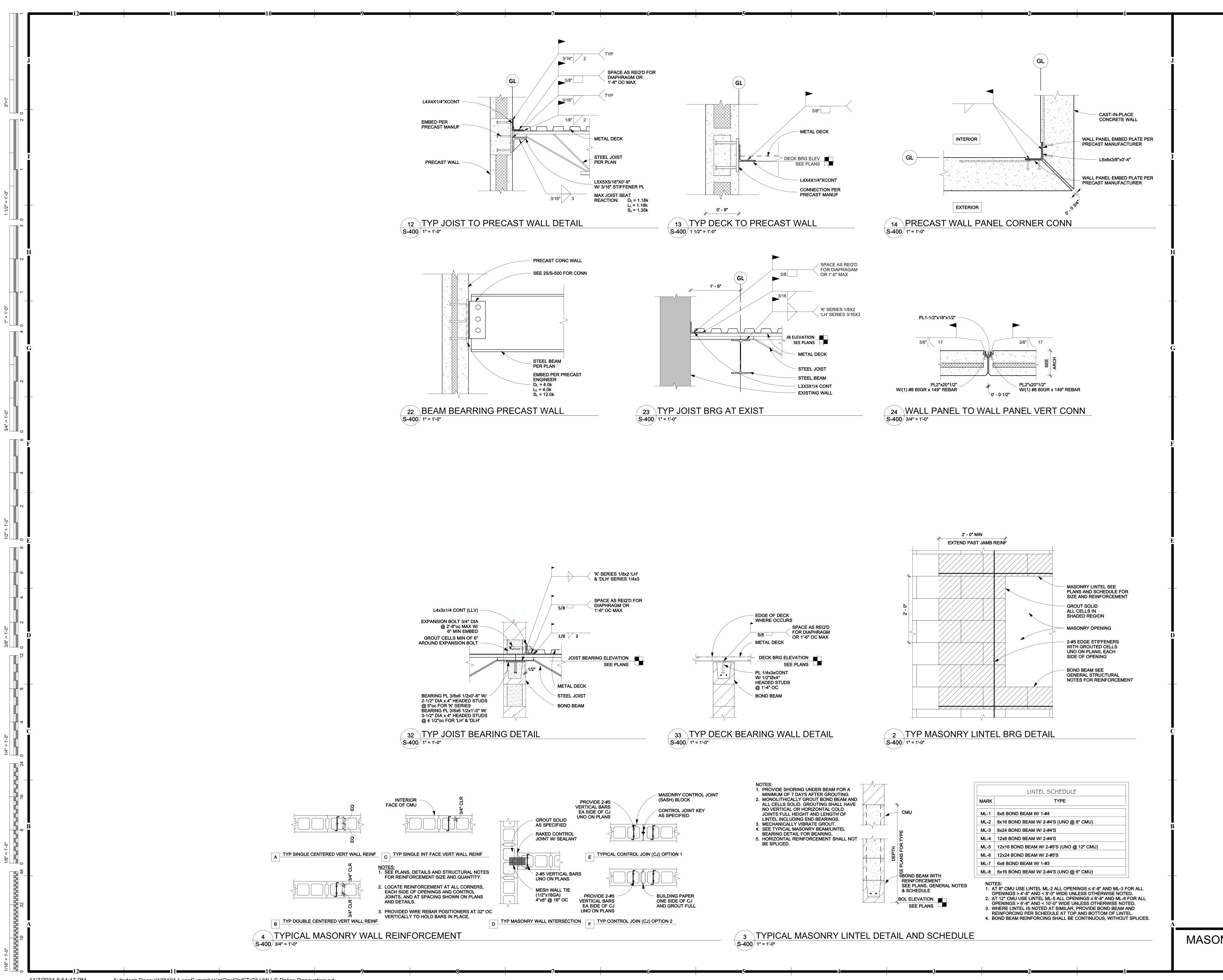




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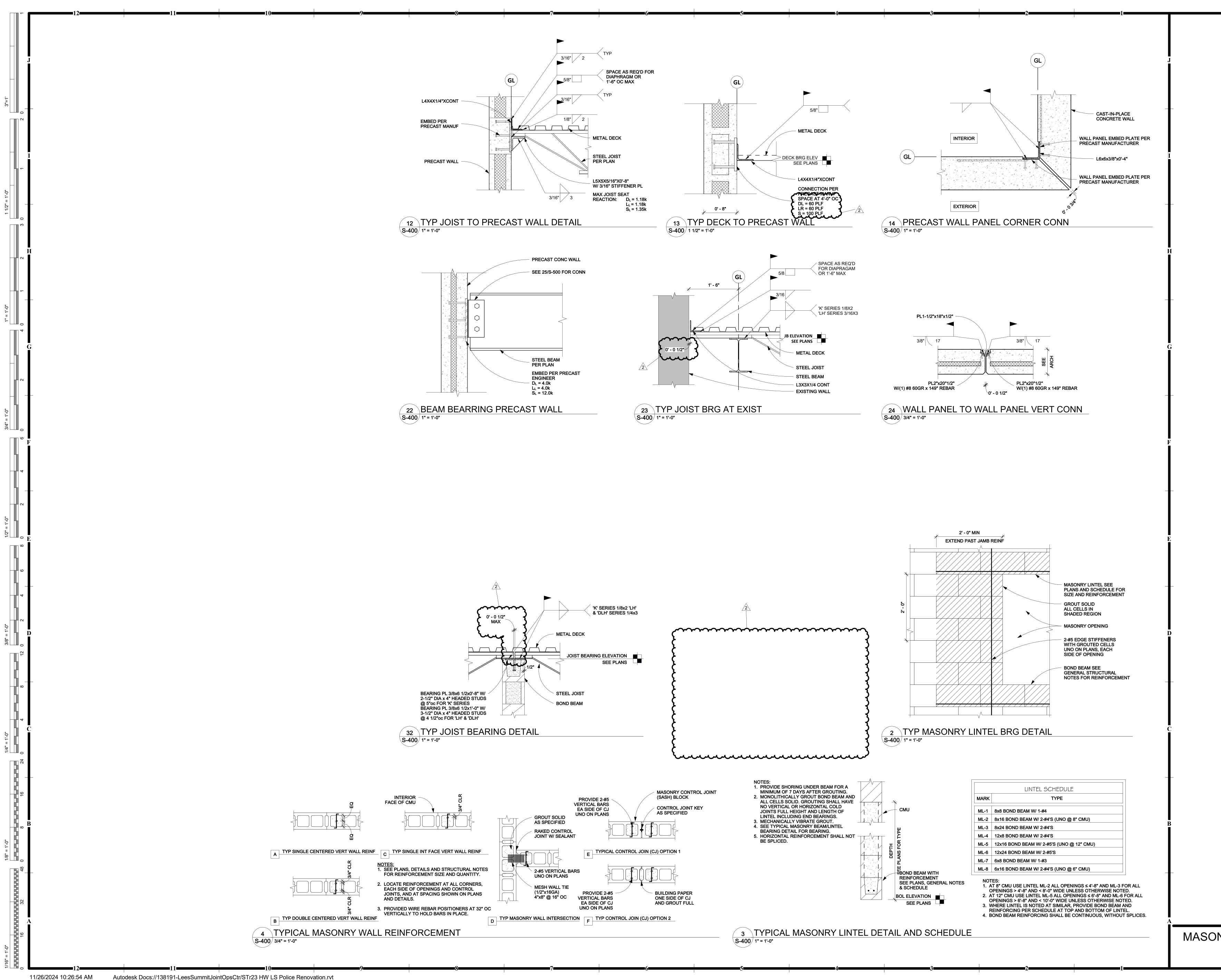
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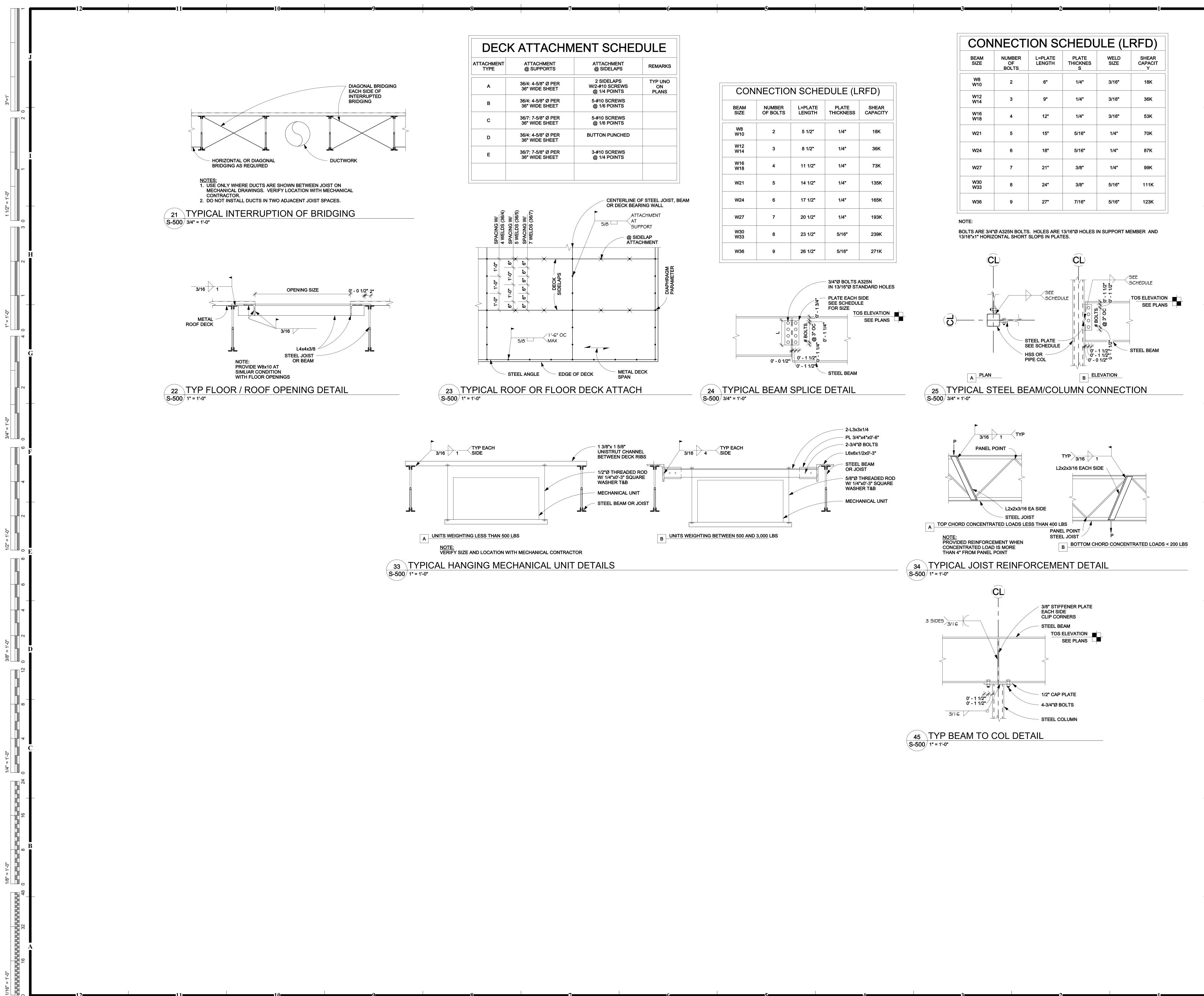
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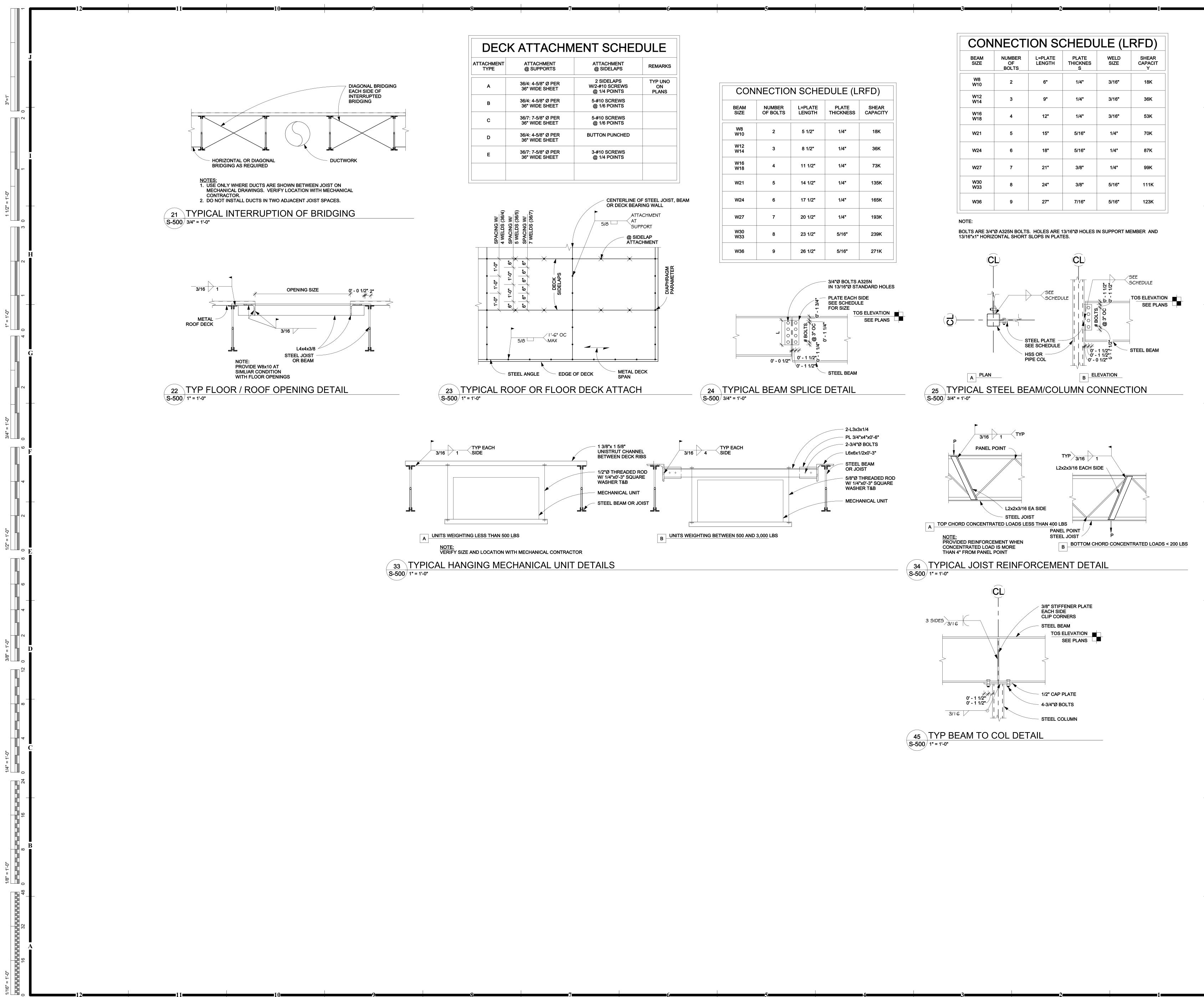


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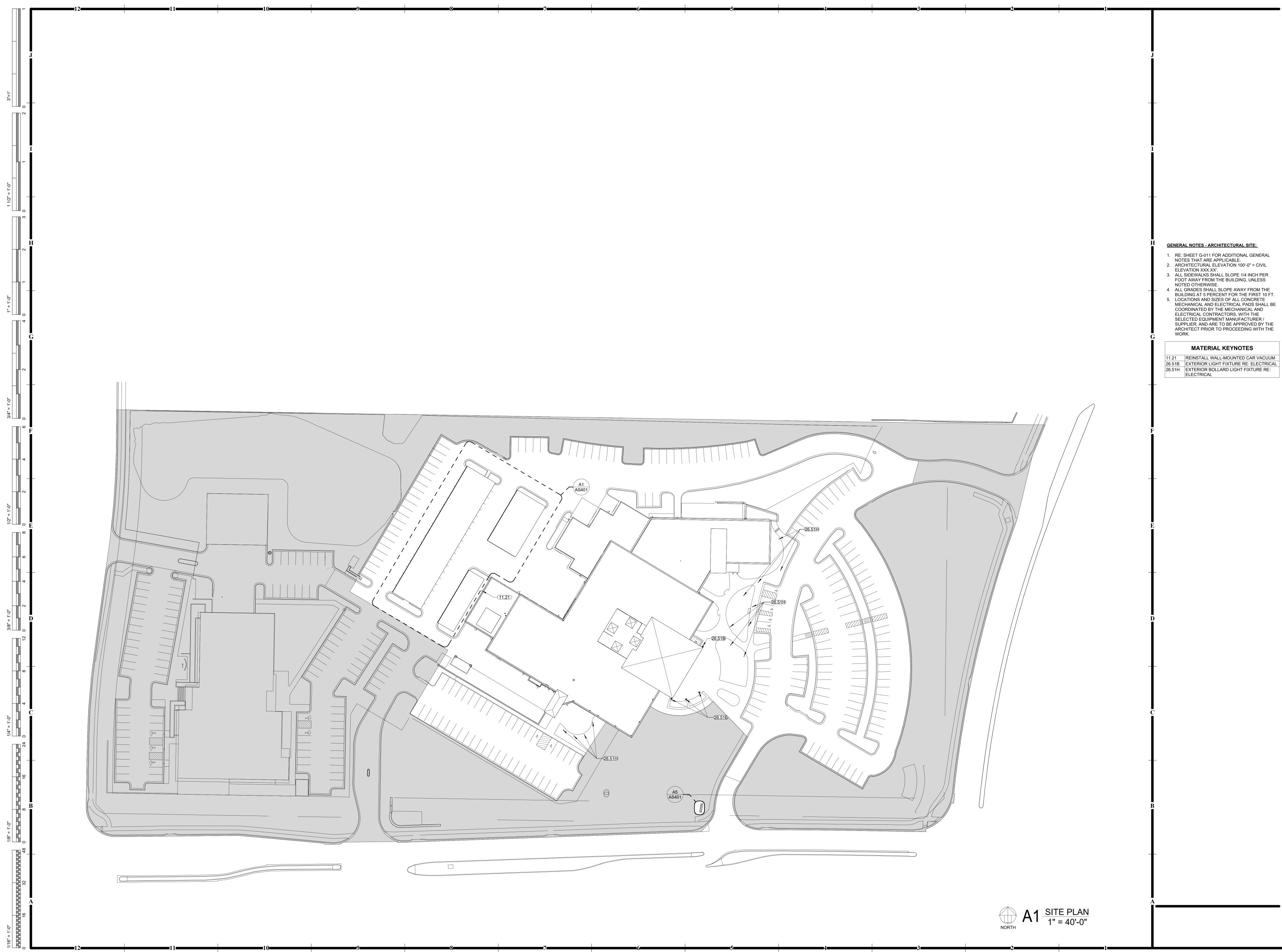






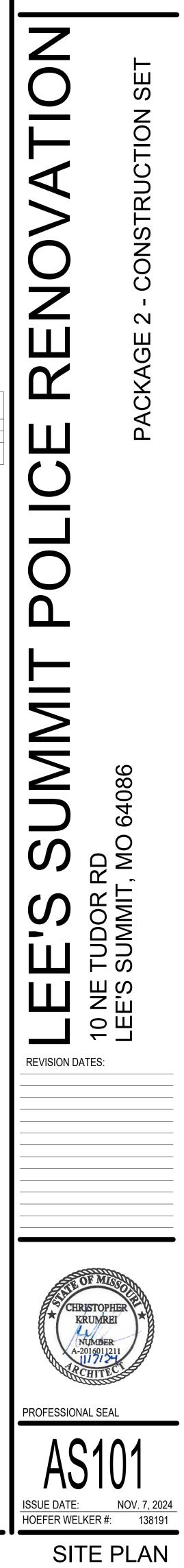




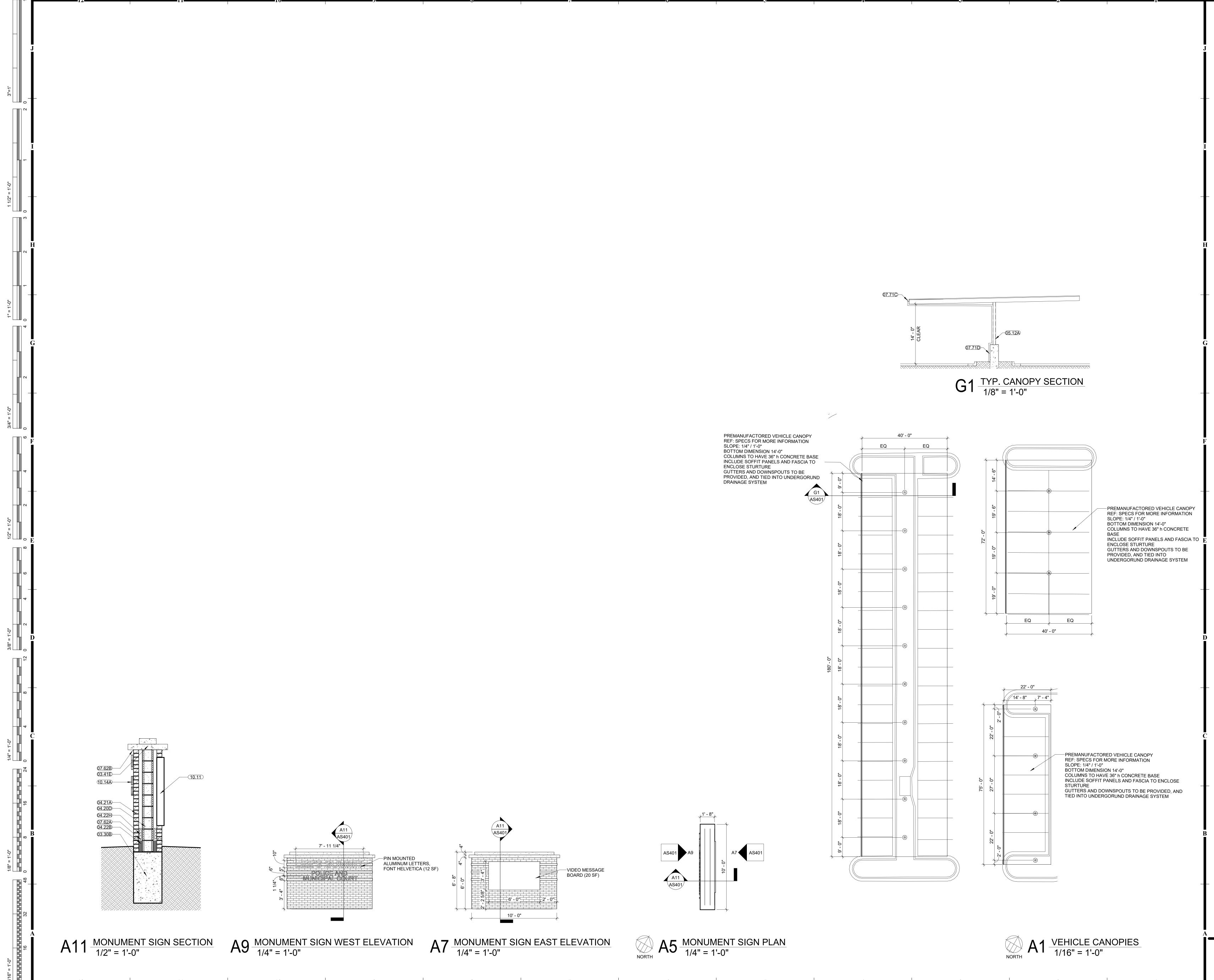


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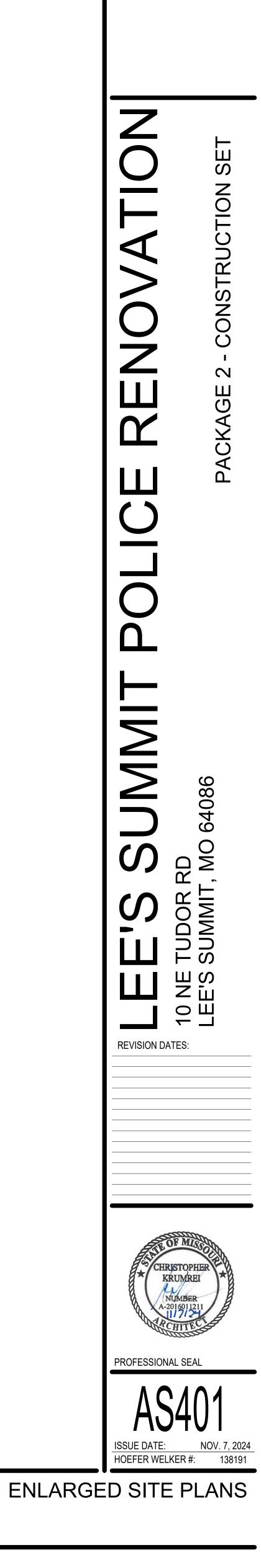


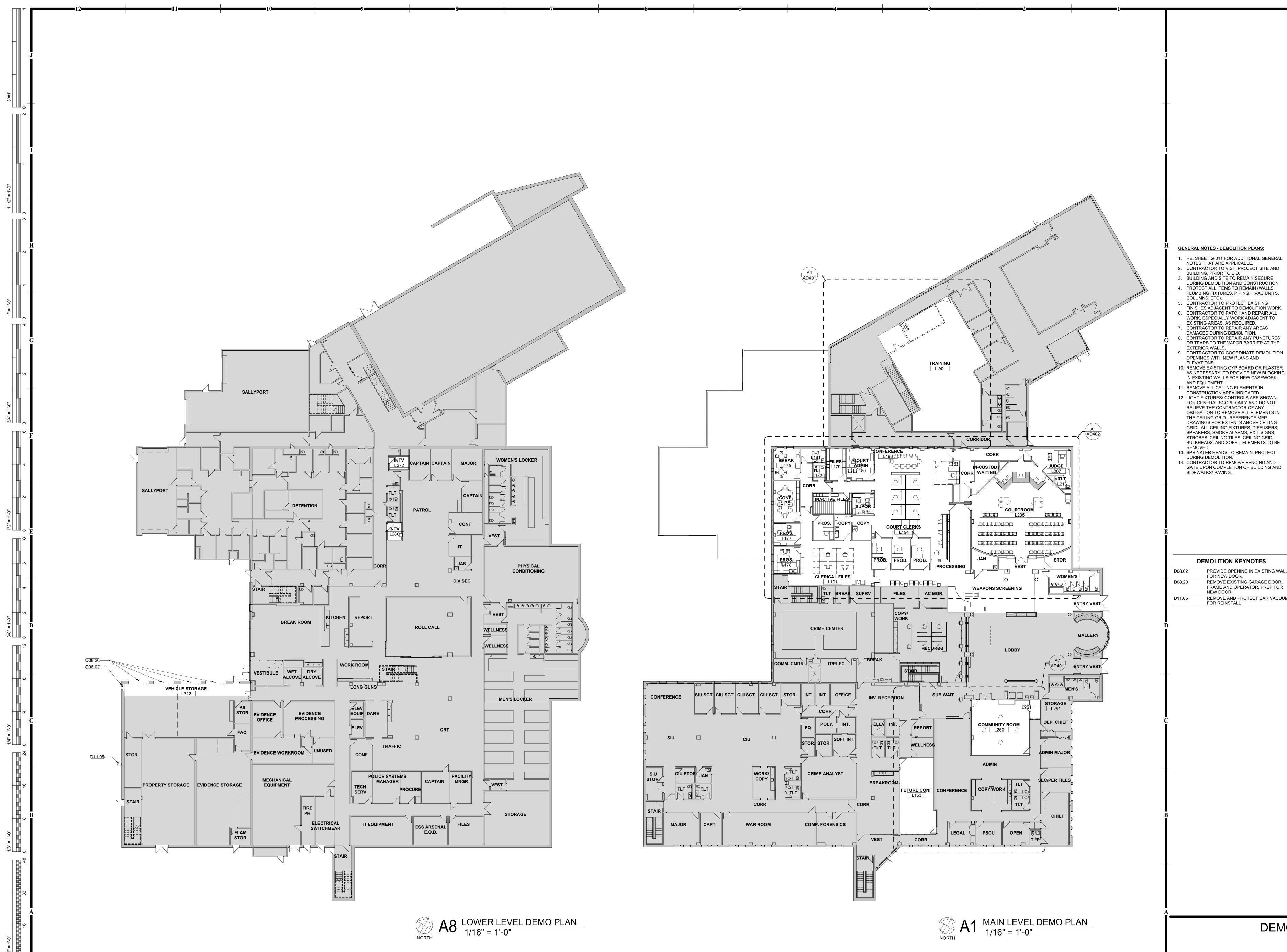
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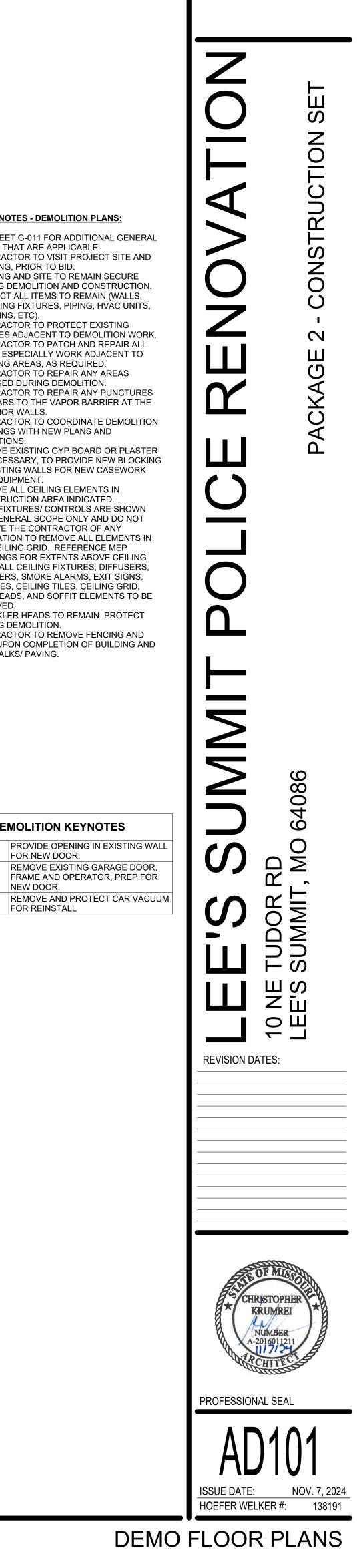


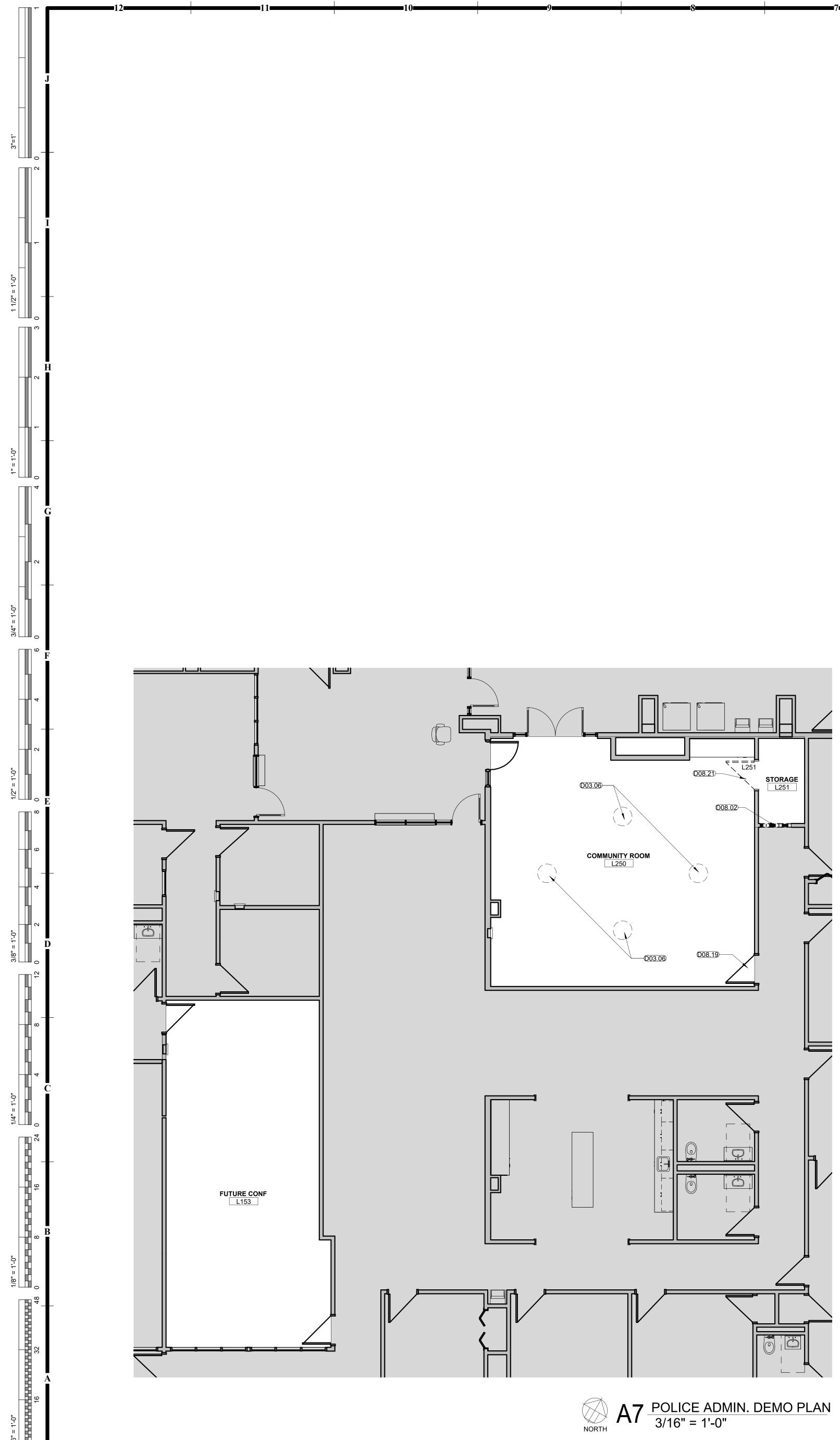
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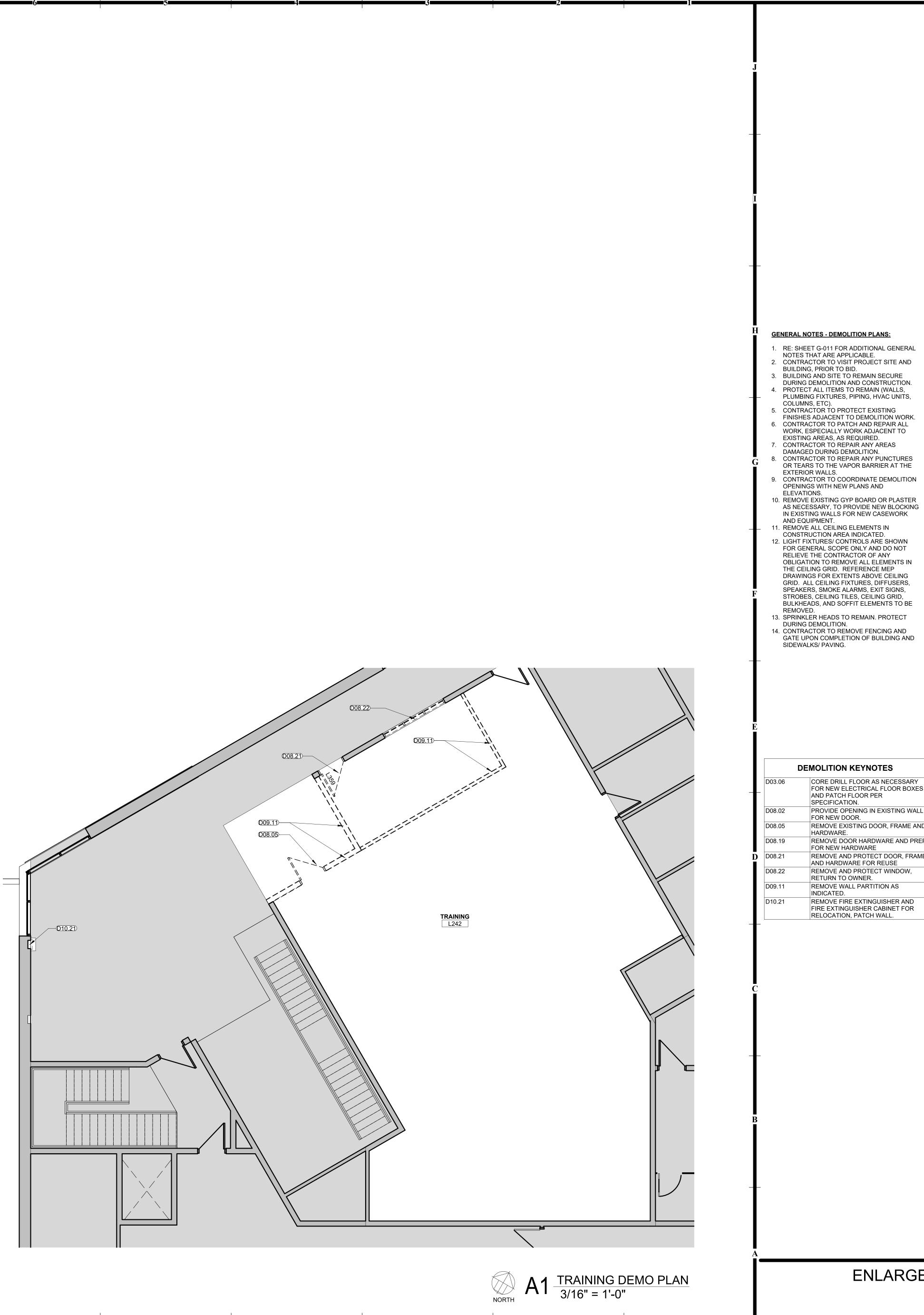




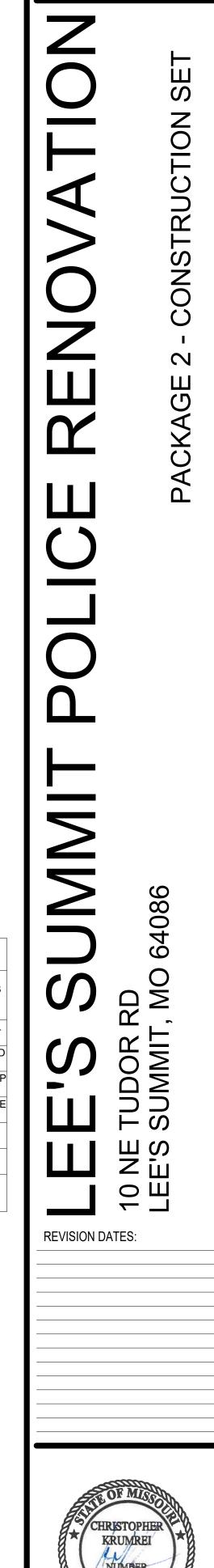


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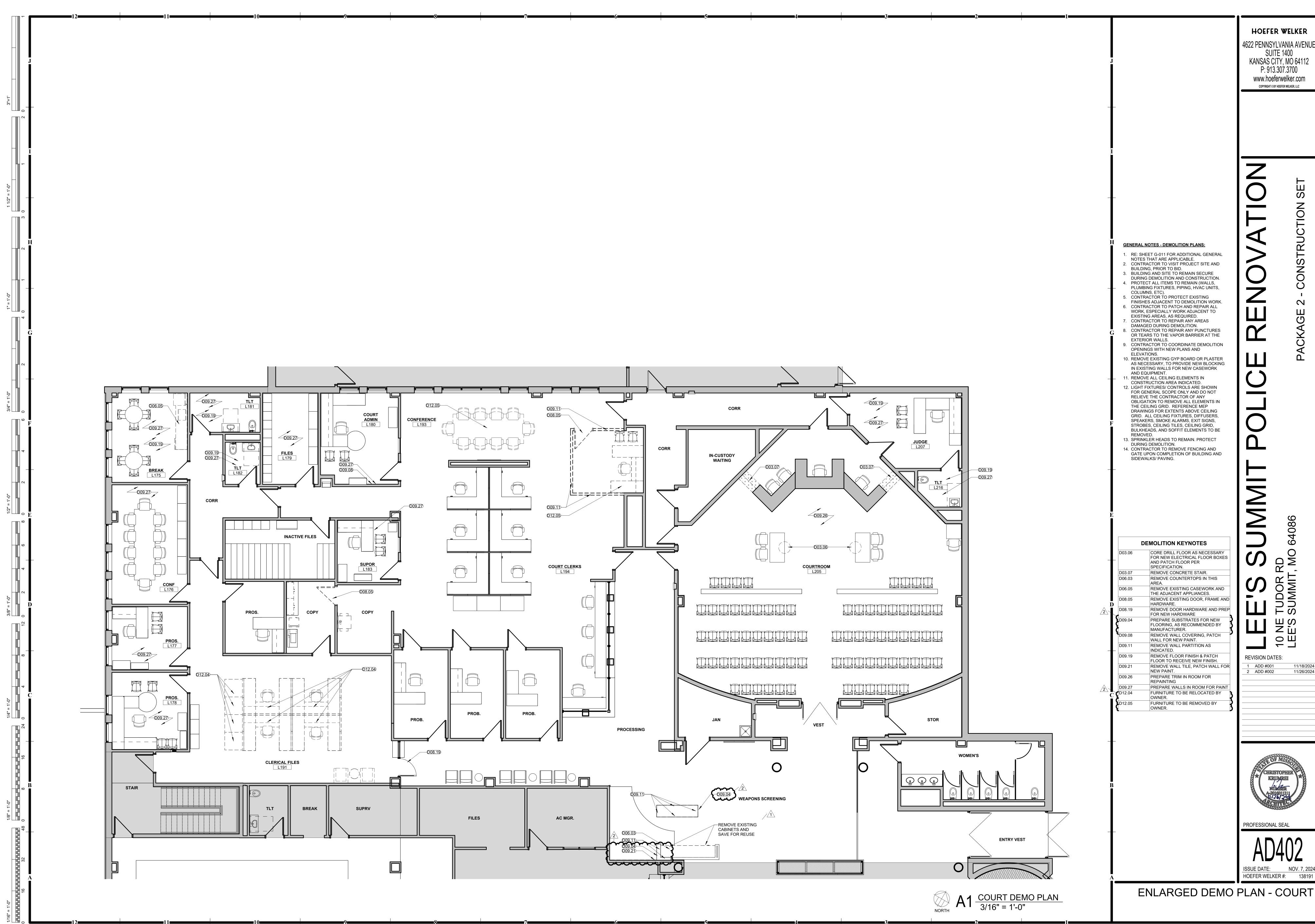
AD401 
 ISSUE DATE:
 NOV. 7, 2024

 HOEFER WELKER #:
 138191
 ENLARGED DEMO PLANS

CORE DRILL FLOOR AS NECESSARY FOR NEW ELECTRICAL FLOOR BOXES AND PATCH FLOOR PER PROVIDE OPENING IN EXISTING WALL REMOVE EXISTING DOOR, FRAME AND REMOVE DOOR HARDWARE AND PREP REMOVE AND PROTECT DOOR, FRAME AND HARDWARE FOR REUSE

REMOVE FIRE EXTINGUISHER AND FIRE EXTINGUISHER CABINET FOR RELOCATION, PATCH WALL.

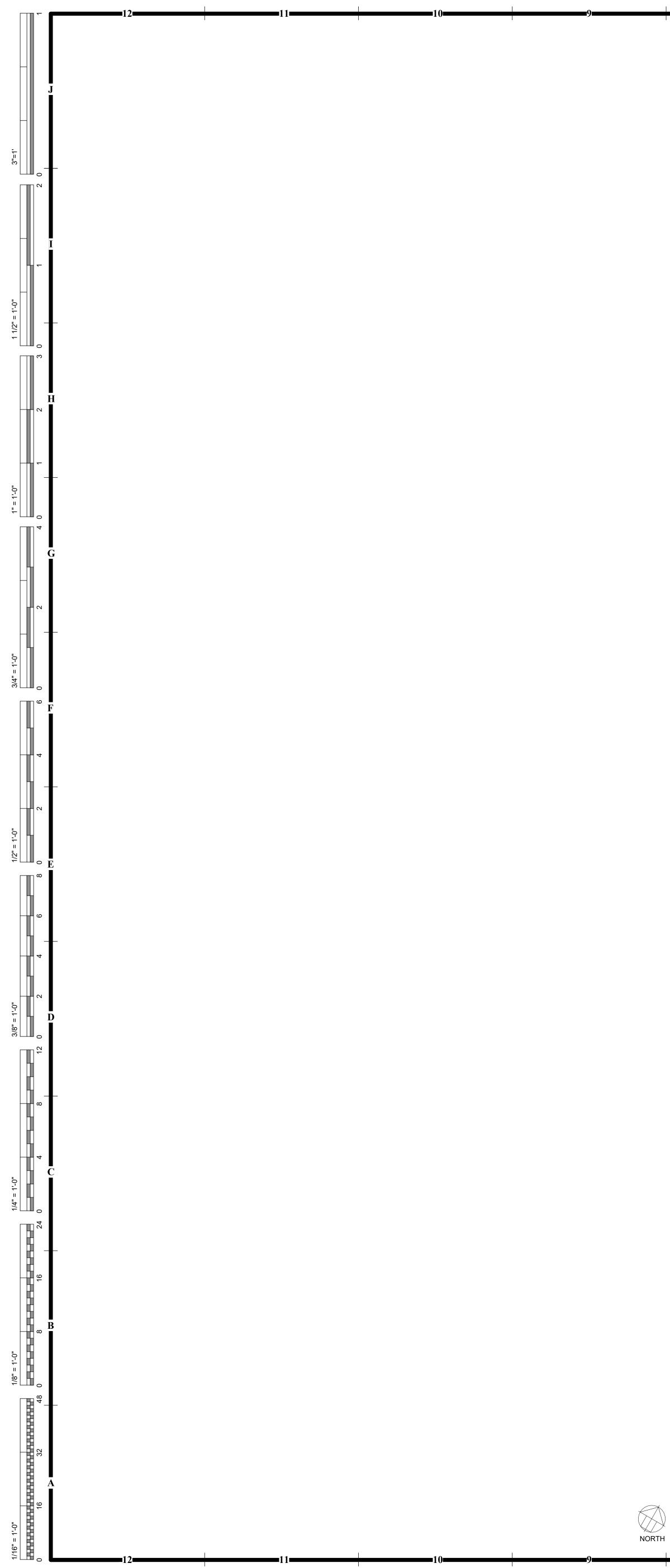
REMOVE AND PROTECT WINDOW, REMOVE WALL PARTITION AS



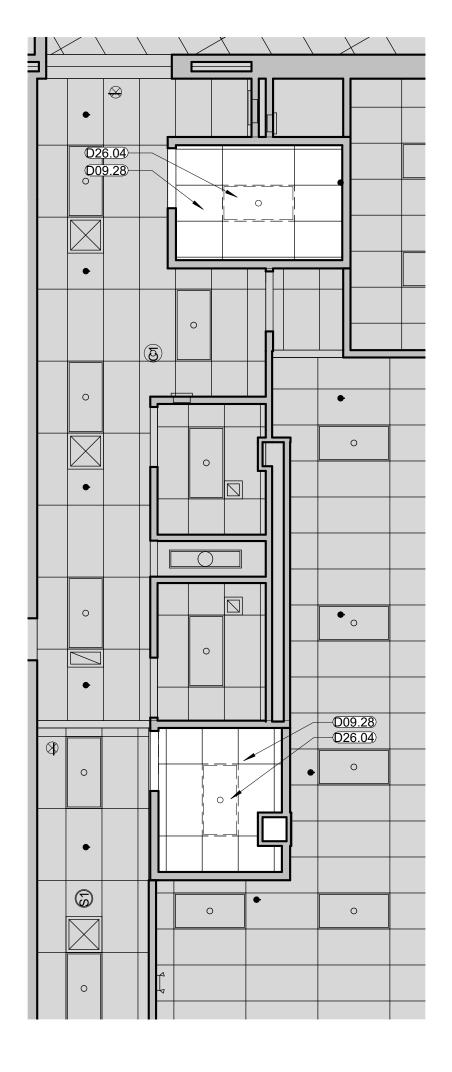
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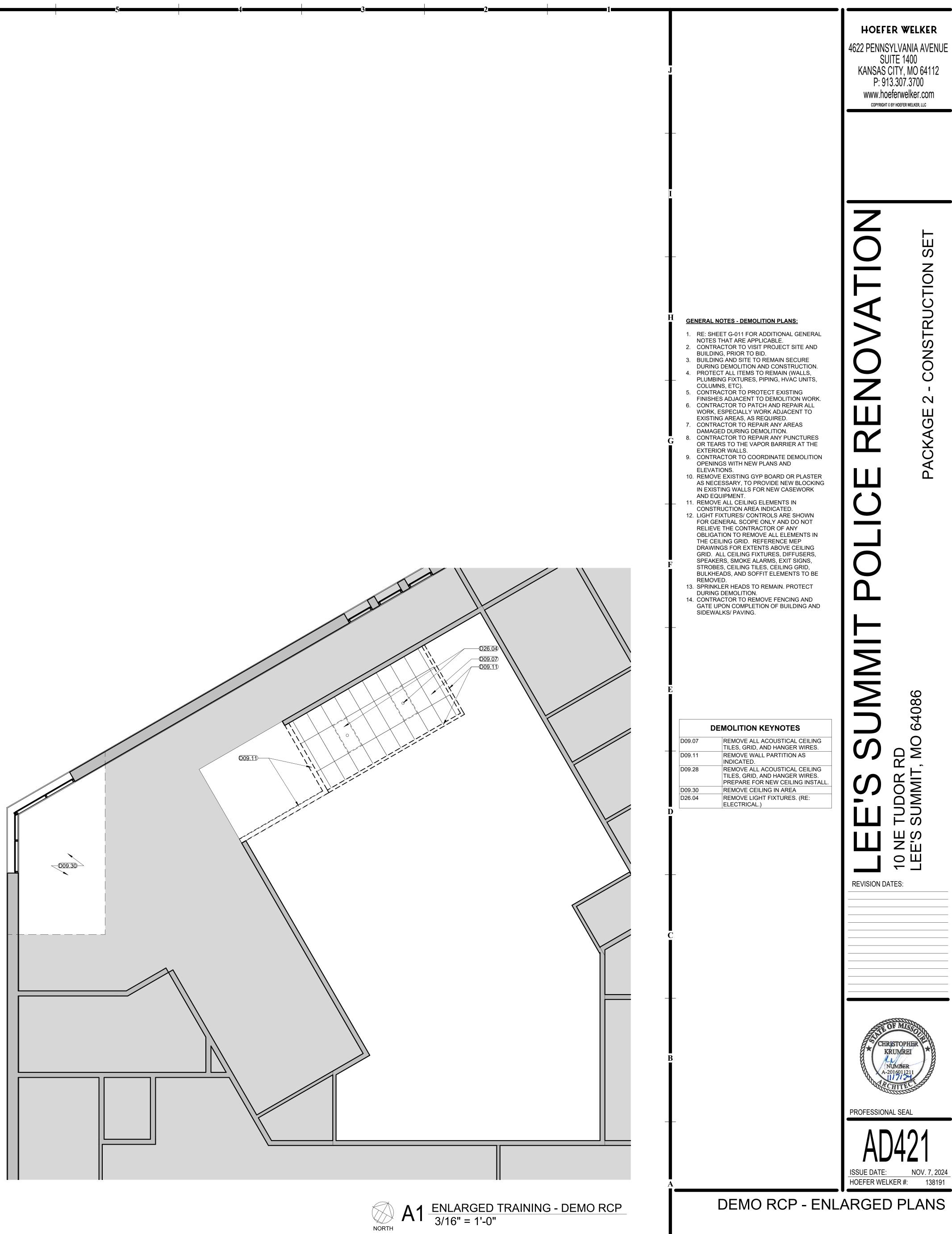
Autodesk Docs://138191-LeesSummitJointOpsCtr/138191\_A23\_LeesSummitPoliceRemodel.rvt





## NORTH A7 INTERVIEW ROOMS - DEMORCP 3/16" = 1'-0"





## 4622 PENNSYLVANIA AVENUE SUITE 1400 KANSAS CITY, MO 64112

			-D09.05 -D09.31 -D09.07 -D26.04

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- 💷

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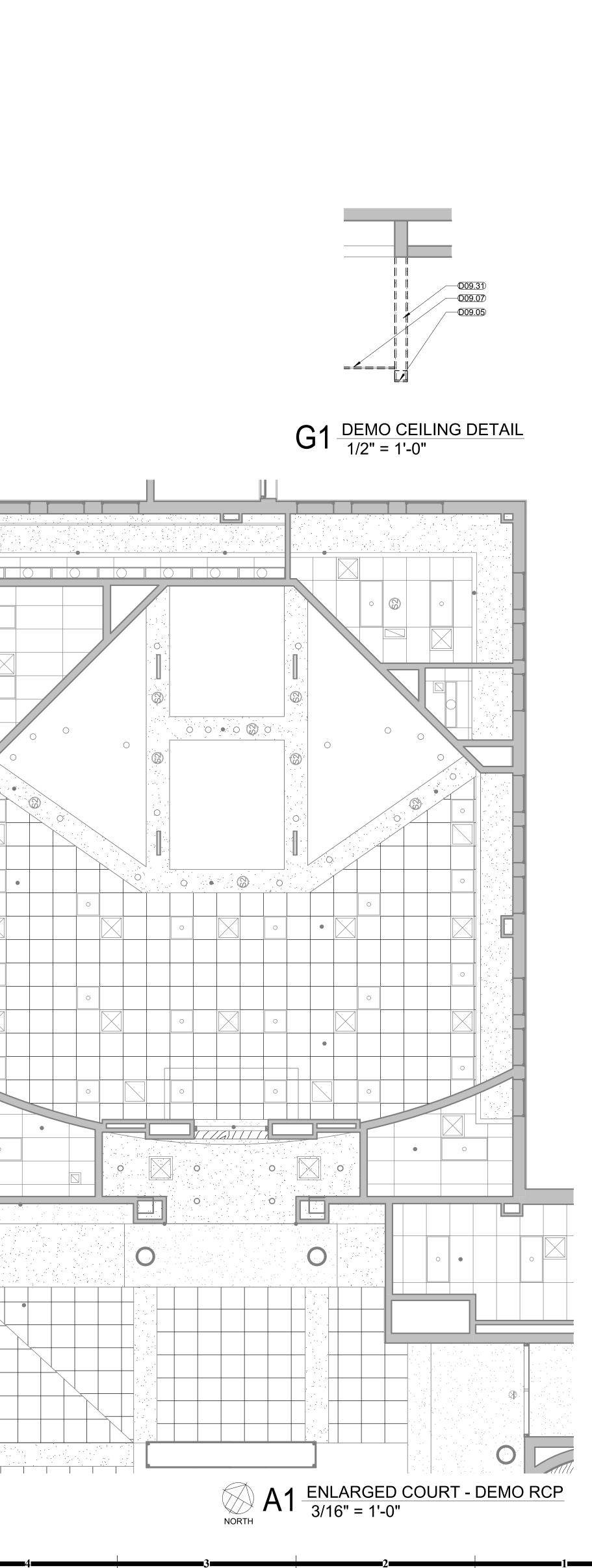
3/4'

1/4

1/8" = 1'-0"

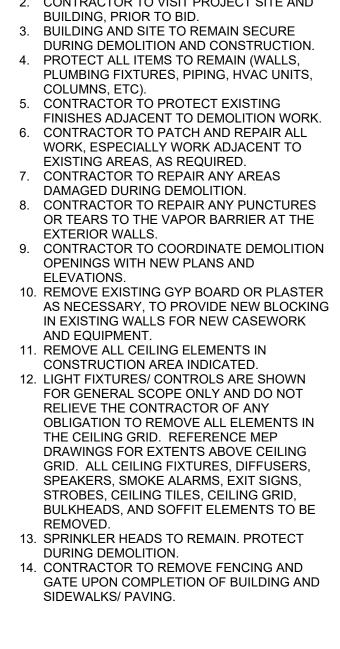
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Autodesk Docs://138191-LeesSummitJointOpsCtr/138191\_A23\_LeesSummitPoliceRemodel.rvt



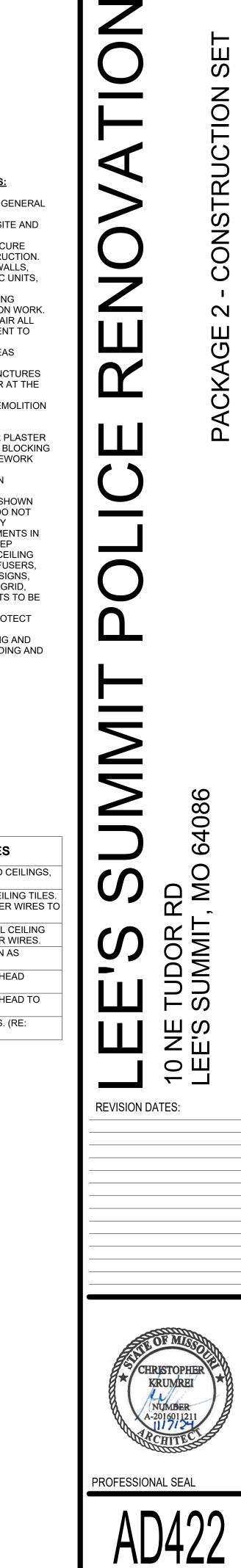
DEMOLITION KEYNOTES REMOVE GYPSUM BOARD CEILINGS, D09.05 INCLUDING FRAMING. REMOVE ACOUSTICAL CEILING TILES. D09.06 CEILING GRID AND HANGER WIRES TO REMAIN. REMOVE ALL ACOUSTICAL CEILING TILES, GRID, AND HANGER WIRES. D09.07 D09.11 REMOVE WALL PARTITION AS INDICATED. REMOVE DRYWALL BULKHEAD D09.14 AND/OR SOFFIT. REMOVE DRYWALL BULKHEAD TO D09.31 WOOD CEILING REMOVE LIGHT FIXTURES. (RE: D26.04

ELECTRICAL.)



**DEMO RCP - ENLARGED COURT** 

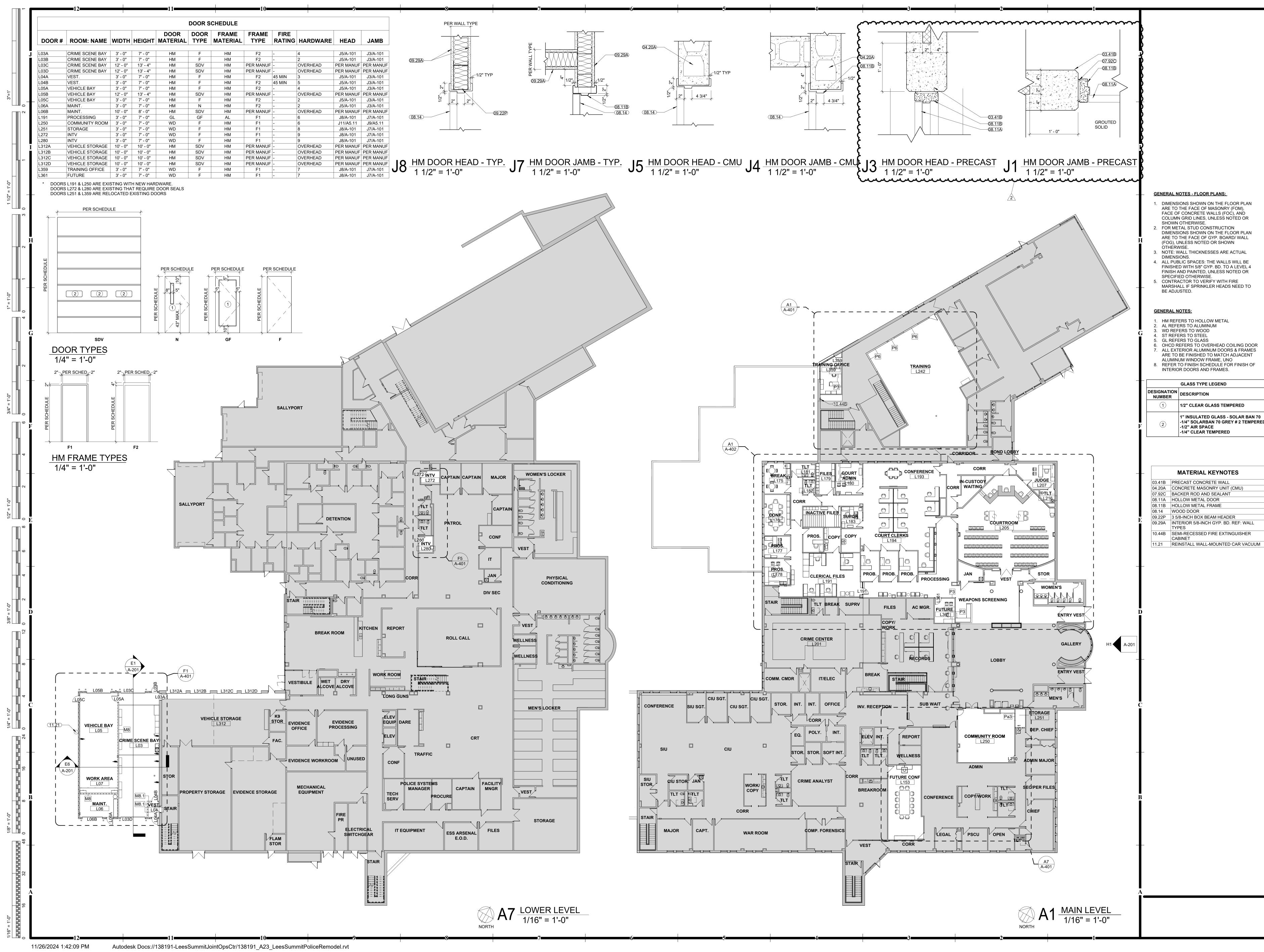
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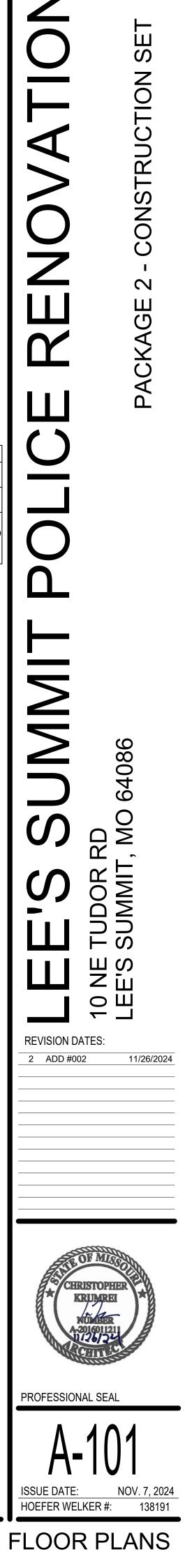


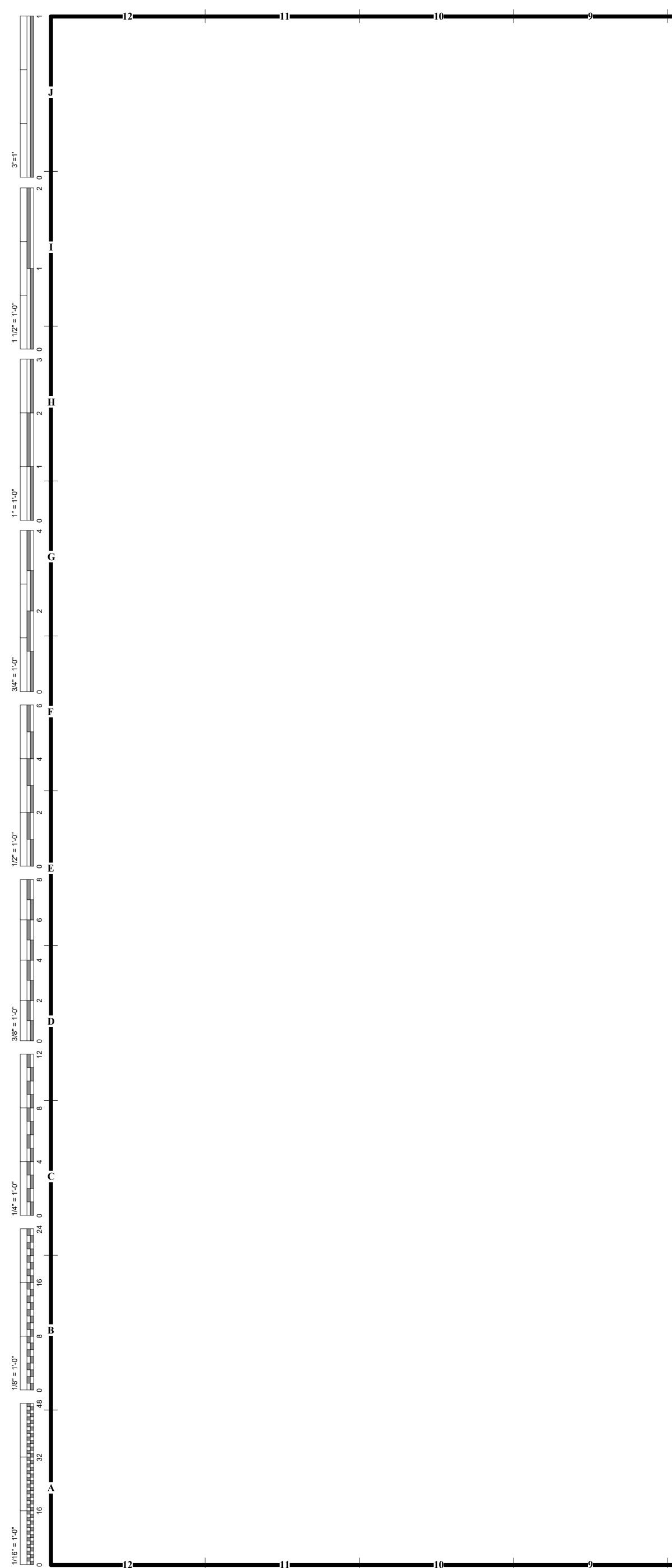
 ISSUE DATE:
 NOV. 7, 2024

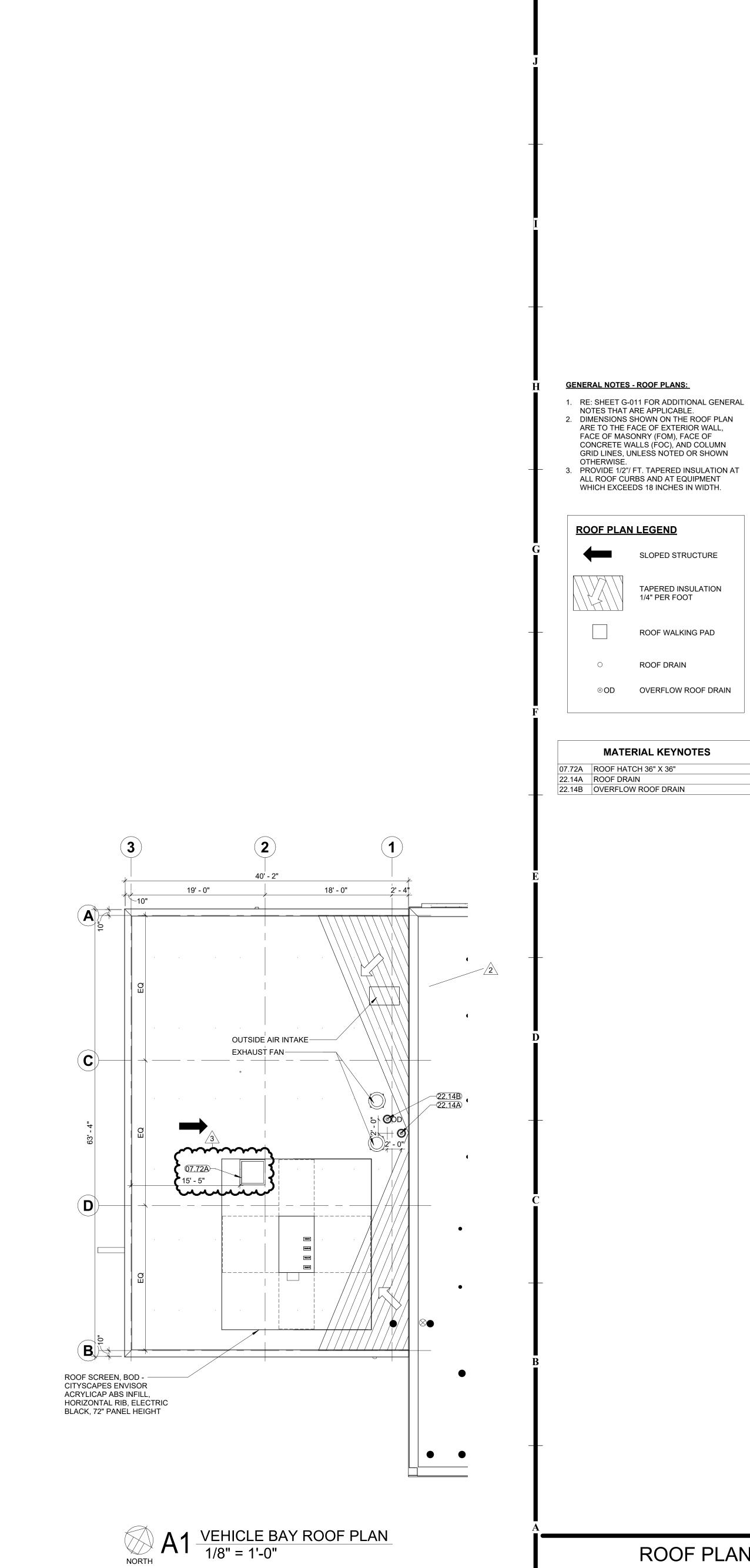
 HOEFER WELKER #:
 138191

**GENERAL NOTES - DEMOLITION PLANS:** 1. RE: SHEET G-011 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE. 2. CONTRACTOR TO VISIT PROJECT SITE AND



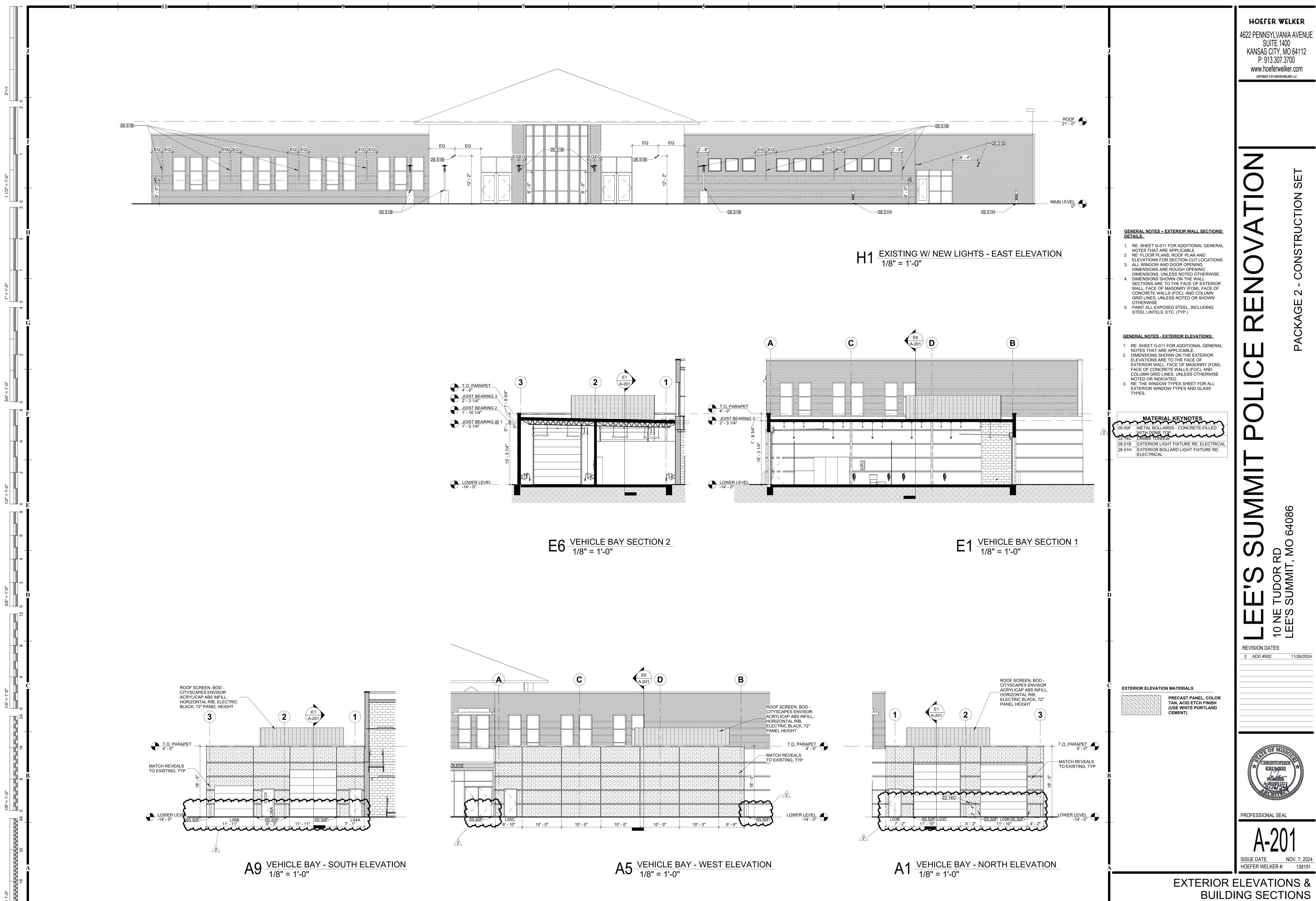


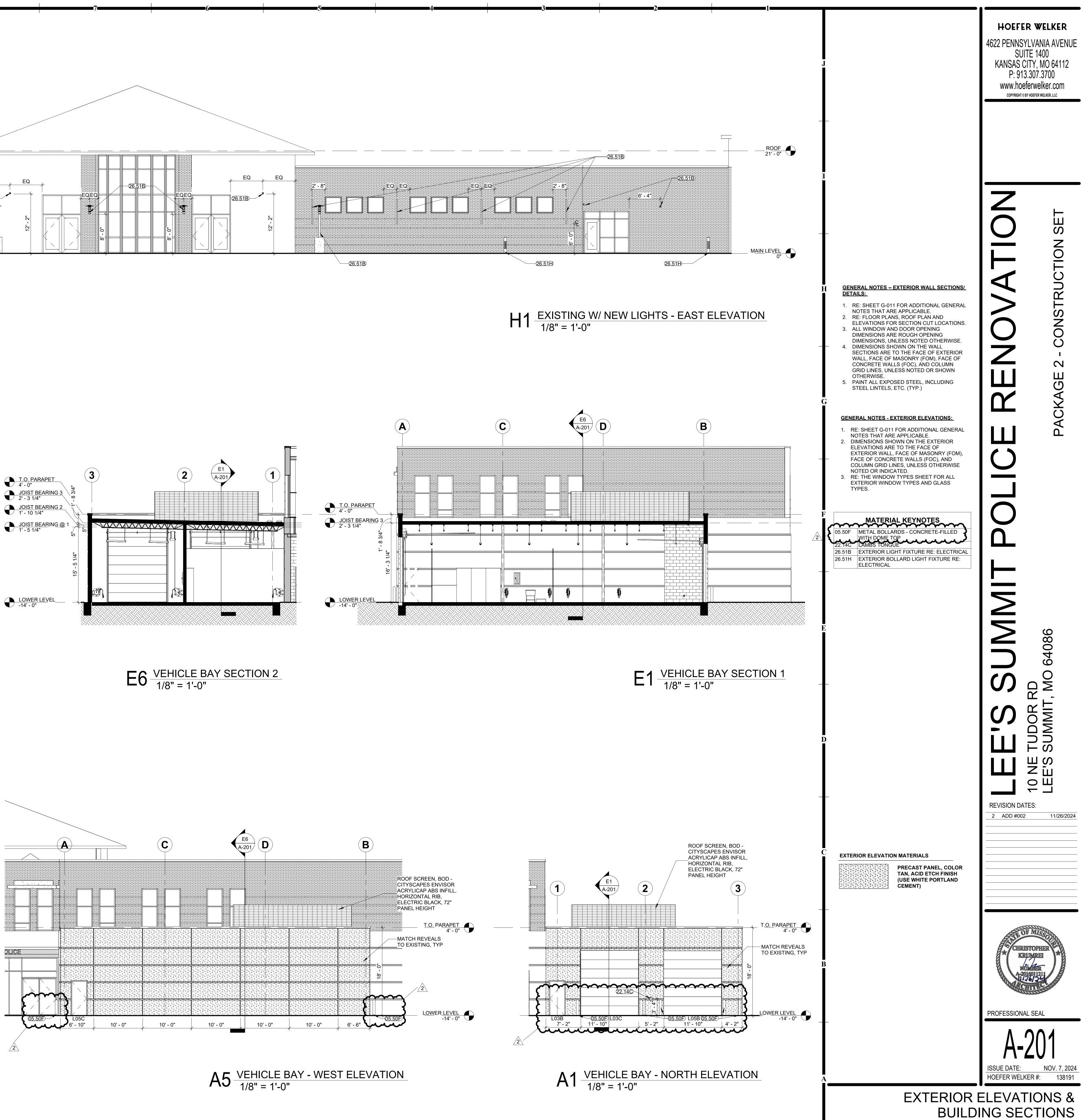




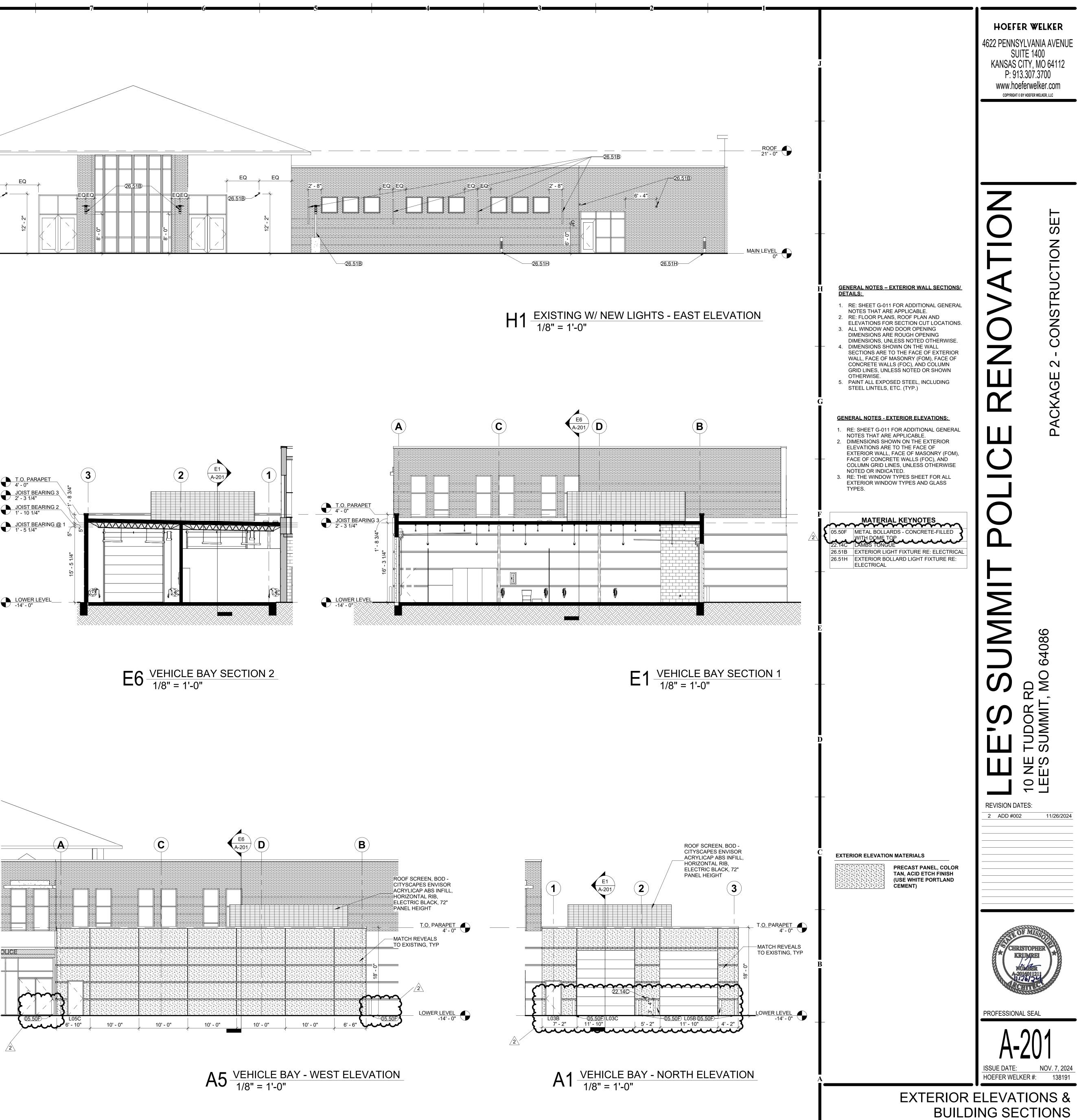
Ш S CONSTRUCTION  $\sim$ ACKAGE Δ 4086 Ú , MO S TUDOR SUMMIT Ц N N 10 ЦП **REVISION DATES:** 11/26/2024 12/9/2024 2 ADD #002 3 ASI #001 KRUMREI PROFESSIONAL SEAL A-102 
 ISSUE DATE:
 NOV. 7, 2024

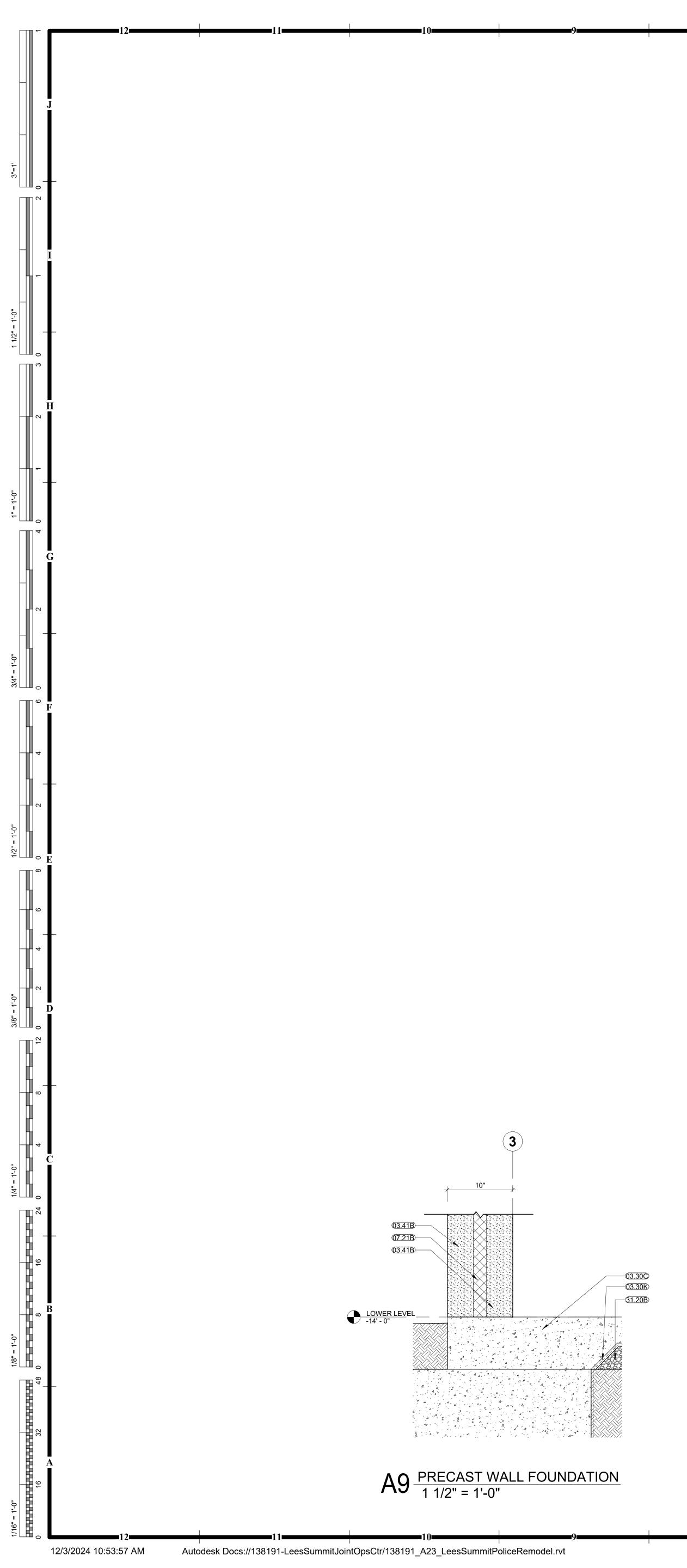
 HOEFER WELKER #:
 138191
 **ROOF PLAN - VEHICLE BAY** 

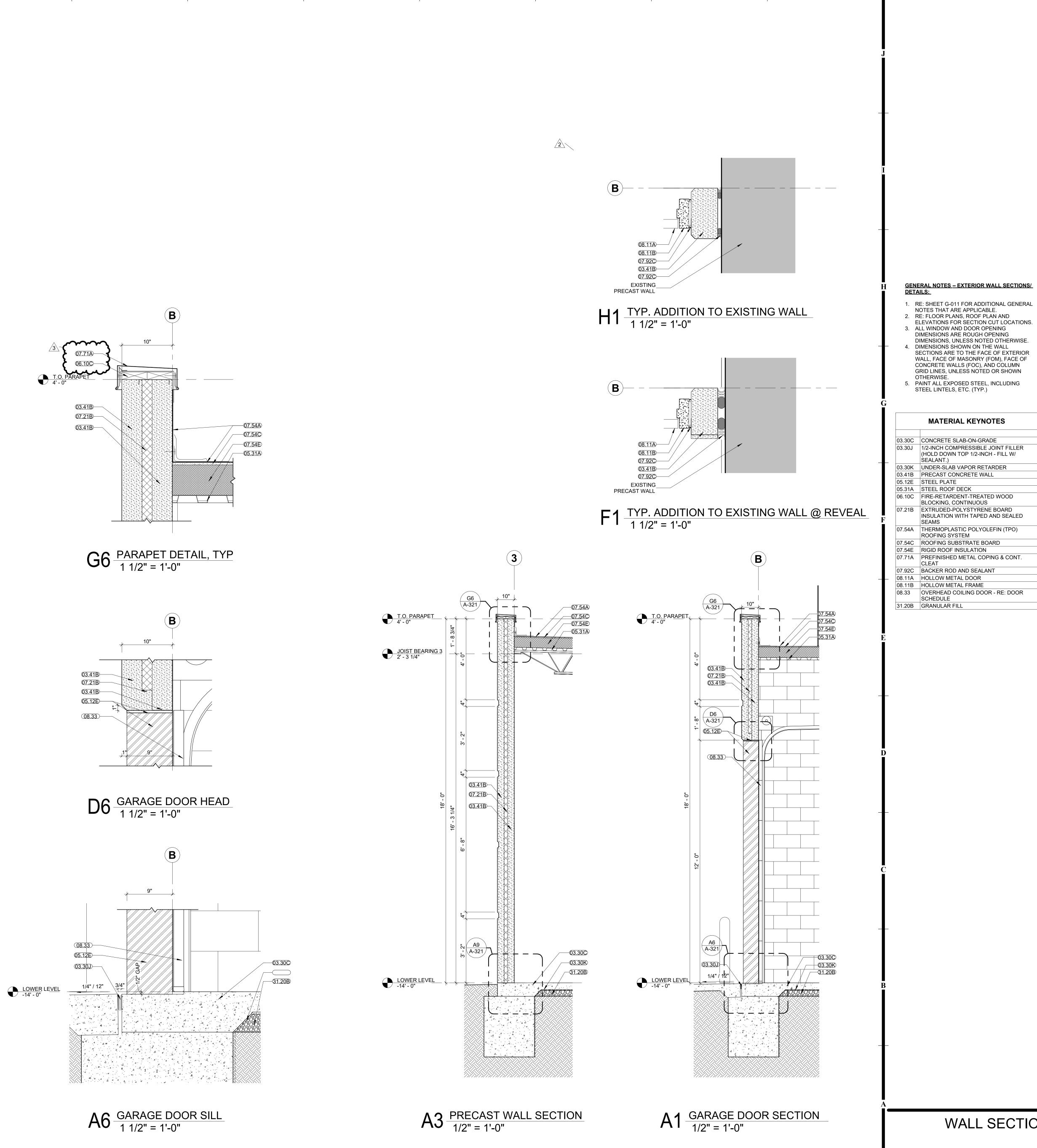


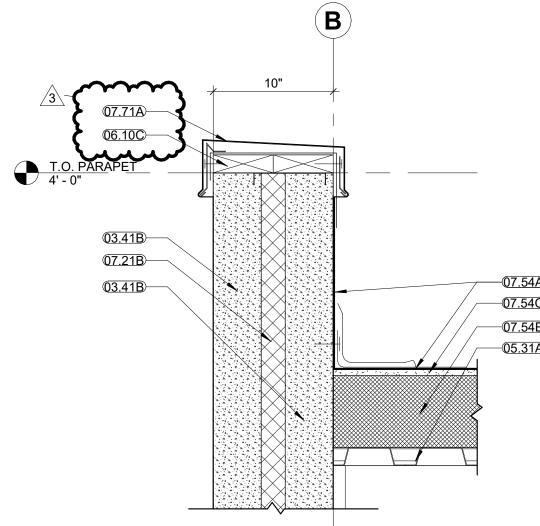


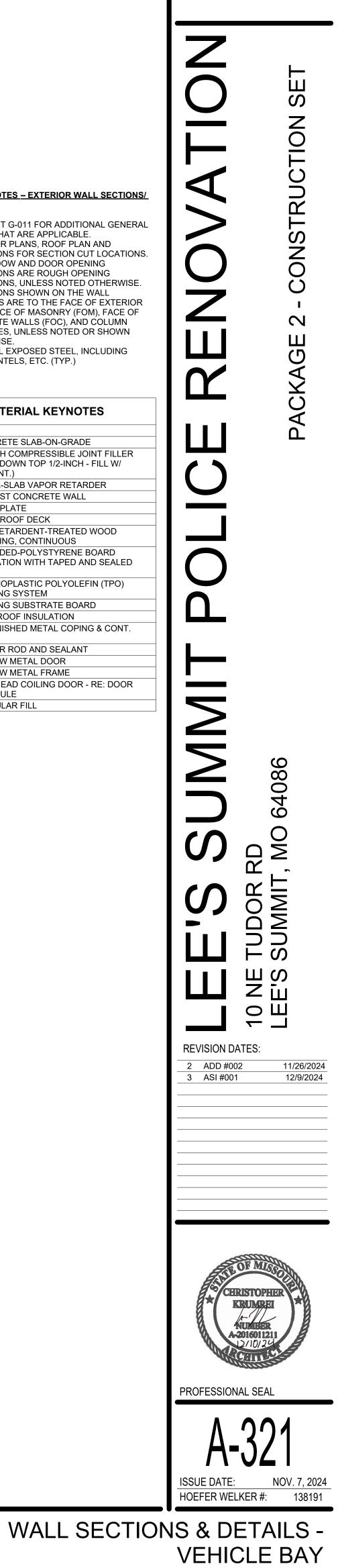








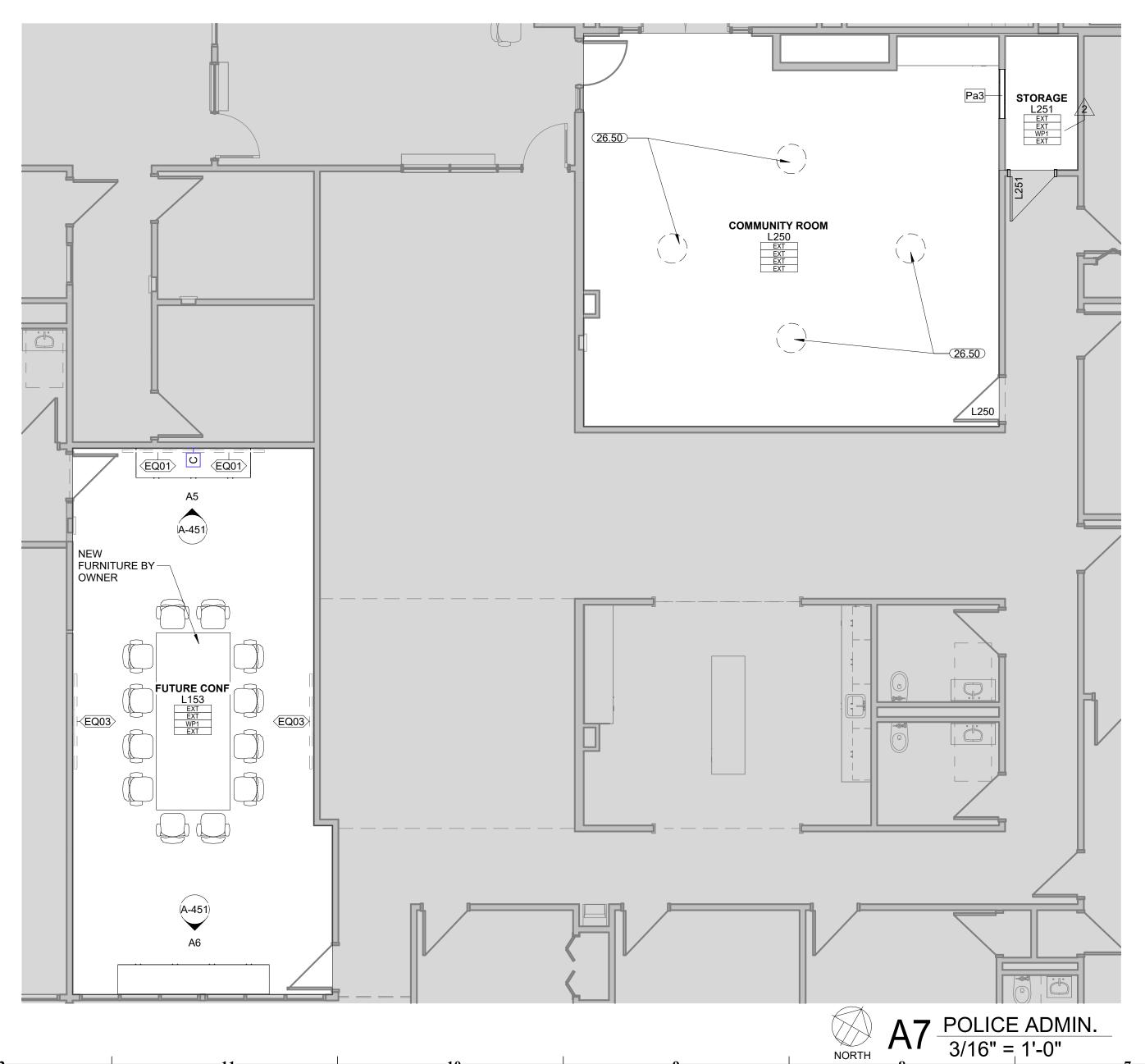




DIMENSIONS, UNLESS NOTED OTHERWISE. SECTIONS ARE TO THE FACE OF EXTERIOR WALL, FACE OF MASONRY (FOM), FACE OF CONCRETE WALLS (FOC), AND COLUMN

ON-GRADE
SSIBLE JOINT FILLER 1/2-INCH - FILL W/
OR RETARDER
ETE WALL
<
TREATED WOOD
NUOUS
STYRENE BOARD
TAPED AND SEALED
POLYOLEFIN (TPO)
ATE BOARD

		FINISH LEGEND		1
SYMBOL FLOOR FINISH	MATERIAL	FINISH SPEC	TYP. AREA / REMARKS	CON
FC	MODULAR CARPET TILE	MANF: BENTLEY STYLE: REDUX DEUX, COLOR: JAZZ UP SIZE: 18" X 36", INSTALLATION: BRICK		NAME: ALI SKILLING PHONE: 913.387.7667 EMAIL: ALI.SKILLING@E
FT	PORCELAIN TILE	MANF: MARAZZI USA STYLE: BASALTO COLOR: SABBIA, SIZE: 12" X 24"		NAME: NIKKI VAN DYNE PHONE: 913.620.6098 EMAIL: NIKKI.VANDYNE
FT2	PORCELAIN TILE	INSTALLATION: STACKED, GROUT: MAPEI KERAPOXY, 5107 IRON MANF: MARAZZI USA STYLE: BASALTO COLOR: BT28 LAVA, SIZE: 24" X 48" INSTALLATION: TO MATCH EXISTING, GROUT: MAPEI KERAPOXY, COLOR 47 CHARCOAL	TO MATCH EXISTING AT DEMO AREA	NAME: NIKKI VAN DYNE PHONE: 913.620.6098 EMAIL: NIKKI.VANDYNE
FT3	PORCELAIN TILE	MANF: MARAZZI USA STYLE: BASALTO COLOR: BT25 POMICE, SIZE: 24" X 48" INSTALLATION: TO MATCH EXISTING, GROUT: MAPEI KERAPOXY, COLOR 107 IRON	TO MATCH EXISTING AT DEMO AREA	NAME: NIKKI VAN DYNE PHONE: 913.620.6098 EMAIL: NIKKI.VANDYNE
FVT	LUXURY VINYL FLOORING			NAME: SARAH JENKINS PHONE: 913.237.7586 EMAIL: SARAH.JENKINS
FX	SEALED CONCRETE	MANF: TBD, STYLE: TBD, COLOR: CLEAR		
WALL BASE				
BR	RESILIENT COVE BASE	MANF: ROPPE STYLE: 700 SERIES PROFILE: TOE BASE, COLOR: 123 CHARCOAL, HEIGHT: 4" H		NAME: WENDY BREMER PHONE: 630.277.1414 EMAIL: WABREMER@R0
BT	TILE BASE	MANF: MARAZZI USA STYLE: BASALTO COLOR: SABBIA SIZE: 12" X 24" TILE CUT TO 4" HIGH WITH MANUFACTURERS EDGE FACING UP INSTALLATION: ALIGNED TO FLOOR TILE GROUT: MAPEI KERAPOXY, 5107 IRON		NAME: NIKKI VAN DYNE PHONE: 913.620.6098 EMAIL: NIKKI.VANDYNE
WALL FINISH				
WP1	PAINT - LATEX	MANF: SHERWIN WILLIAMS STYLE: LATEX, EG-SHEL FINISH COLOR: BIG CHILL SW7648		NAME: PETER KREMM PHONE: 303.902.7239 EMAIL: PETER.KREMM@
WP2	PAINT - LATEX	MANF: SHERWIN WILLIAMS STYLE: LATEX, EG-SHEL FINISH COLOR: SUMMIT GRAY SW7669		NAME: PETER KREMM PHONE: 303.902.7239 EMAIL: PETER.KREMM@
WT	PORCELAIN WALL TILE	MANF: ISLAND STONE STYLE: GLASS ESSENTIALS COLOR: FOG, MATTE SIZE: 4" X 12" FIELD TILE GROUT: MAPEI KERAPOXY, 5093 WARM GRAY		NAME: NIKKI VAN DYNE PHONE: 913.620.6098 EMAIL: NIKKI.VANDYNE
WALL PROTEC PC1		MANF: CONSTRUCTION SPECIALTIES		NAME: RICK STINGLEY
FCI		STYLE: CO-8, COLOR: STAINLESS STEEL, SATIN FINISH, SIZE: 3" WING INSTALLATION: INSTALL AT TOP OF BASE		PHONE: 816.536.0229 EMAIL: RICK.S@CLOUT
MILLWORK / CA			1	
ML	PLASTIC LAMINATE	MANF: LAMINART STYLE: TEXTURED FINISH COLOR: 2418-T GRAPHITE EDGEBAND: .018" PVC TO MATCH		NAME: SARAH CAMP PHONE: 314.422.2340 EMAIL: SARAH.CAMP@I
MQ1		MANF: WILSONART STYLE: 3 CM COLOR: CLOUDS REST Q4049, OR EQUAL TO MATCH EXISTING		
MS1	SOLID SURFACE	MANF: FORMICA STYLE: 0.48" THICKNESS, COLOR: 757 LUNA SAND		NAME: LAURA KNIGHT PHONE: 816.228.9998 EMAIL: LAURA.KNIGHT@
MS2 MW	STAINLESS STEEL WOOD COUNTERTOP	MANF: -, STYLE: SATIN STYLE: BUTCHER BLOCK, SPECIES: RED OAK		
		FINISH: CLEAR FINISH, THICKNESS: 1 1/2"		
CEILING FINISH	l			
CA	ACOUSTICAL CEILING	MANF: ARMSTRONG CEILINGS STYLE: ULTIMA BEVELED TEGULAR 1941 COLOR: WHITE, SIZE: 24" X 24" X 7/8", GRID: 15/16" SUPRAFINE		NAME: ELIZABETH MOC PHONE: 816.216.2890 EMAIL: EMOON@ARMS
SPECIALTY				
EXT SD	EXISTING TO REMAIN INTERIOR DOORS	- MANF, STYLE, COLOR: TO MATCH EXISTING	INTERIOR METAL DOORS AND INTERIOR FACE OF EXTERIOR DOORS	
SD FRAME	INTERIOR HOLLOW METAL DOOR FRAMES	MANF: SHERWIN WILLIAMS STYLE: ALKYD COLOR: PEPPERCORN SW7674		NAME: PETER KREMM PHONE: 303.902.7239 EMAIL: PETER.KREMM@
ST	METAL EDGE TRIM	MANF: SCHULTER, STYLE: JOLLY COLOR: SATIN ANODIZED ALUMINUM (AE)	EDGE OF WALL TILE	NAME: NIKKI VAN DYNE PHONE: 913.620.6098 EMAIL: NIKKI.VANDYNE
SW	WINDOW TREATMENT - ROLLER SHADES	MANF: MECHOSHADE TYPE: MECHO/5, OPENNESS: 0-1% OPEN		NAME: RYAN HELLING PHONE: 816.471.2559



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1/8" = 1'

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### 13.237.7586 ARAH.JENKINS@PATCRAFT.COM

ENDY BREMER 30.277.1414 BREMER@ROPPE.COM KI VAN DYNE 3.620.6098

KKI.VANDYNE@VIRGINIATILE.COM

### TER KREMM 03.902.7239

TER.KREMM@SHERWIN.COM TER KREMM 03.902.7239 TER.KREMM@SHERWIN.COM KI VAN DYNE 13.620.6098

KKI.VANDYNE@VIRGINIATILE.COM 

16.536.0229 CK.S@CLOUTMANANDSTINGLEY.COM RAH CAMP

14.422.2340 ARAH.CAMP@LAMINART.COM

JRA KNIGHT 16.228.9998 URA.KNIGHT@FORMICA.COM

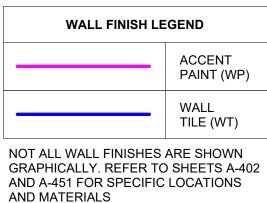
ABETH MOON

16.216.2890 IOON@ARMSTRONGCEILINGS.COM

ETER KREMM 303.902.7239 ETER.KREMM@SHERWIN.COM KKI VAN DYNE 13.620.6098

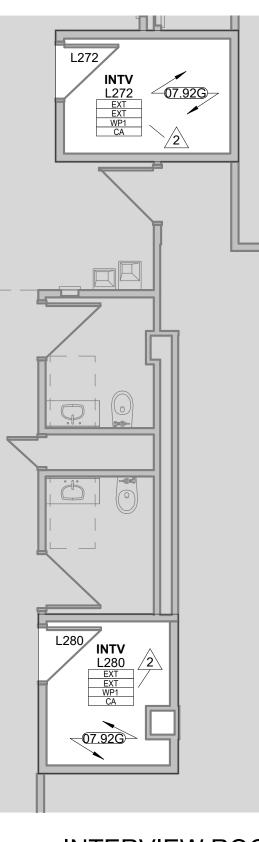
KI.VANDYNE@VIRGINIATILE.COM AN HELLING 16.471.2559 AN@HARTKS.COM

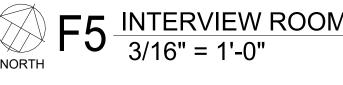
EQUIPMENT SCHEDULE					
TYPE MARK	DESCRIPTION	SUPPLIED/INSTALLED BY			
EQ01	TELEVISION 65"	OF/OI			
EQ02	TELEVISION 75"	OF/OI			
EQ03	TELEVISION 85"	OF/OI			
EQ04	REFRIGERATOR	OF/OI			
EQ05	MICROWAVE	OF/OI			
EQ06	DISHWASHER	OF/CI			
EQ07	SHOE CUBBY / BENCH	OF/OI			
EQ08	ADJUSTABLE SHELVING	OF/OI			
EQ09	42" DESK	OF/OI			
EQ10	EVIDENCE LOCKERS - TIFFIN 14AA	CF/CI			
EQ11	EVIDENCE LOCKERS - TIFFIN 07AB	CF/CI			
EQ12	EVIDENCE LOCKERS - TIFFIN 08AA	CF/CI			
EQ13	LATERAL FILE CABINET	OF/OI			

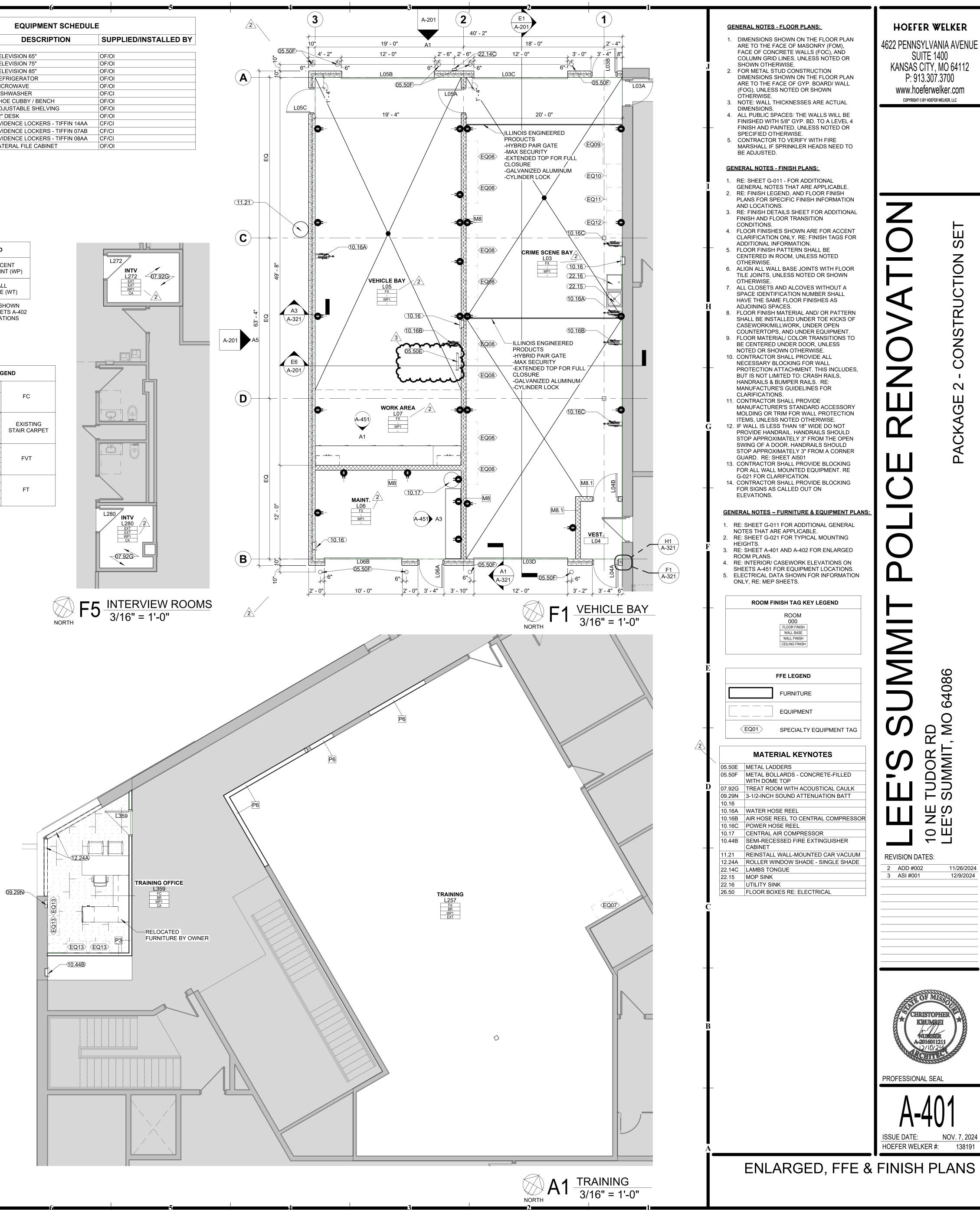


FLOOR FINISH LEGEND				
	FC			
+ + + + + + + + + + + + + + + + + + +	EXISTING STAIR CARPET			
	FVT			
	FT			

**RE: FINISH SCHEDULE** 







G KET LEGEND
M INISH ASE VISH TINISH
GEND
TURE

HOEFER WELKER 4622 PENNSYLVANIA AVENUE SUITE 1400 KANSAS CITY, MO 64112 P: 913.307.3700 www.hoeferwelker.com COPYRIGHT © BY HOEFER WELKER, LLC

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CONSTRUCTION

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11/26/2024 12/9/2024

CHRISTOPHER

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 ISSUE DATE:
 NOV. 7, 2024

 HOEFER WELKER #:
 138191

PROFESSIONAL SEAL

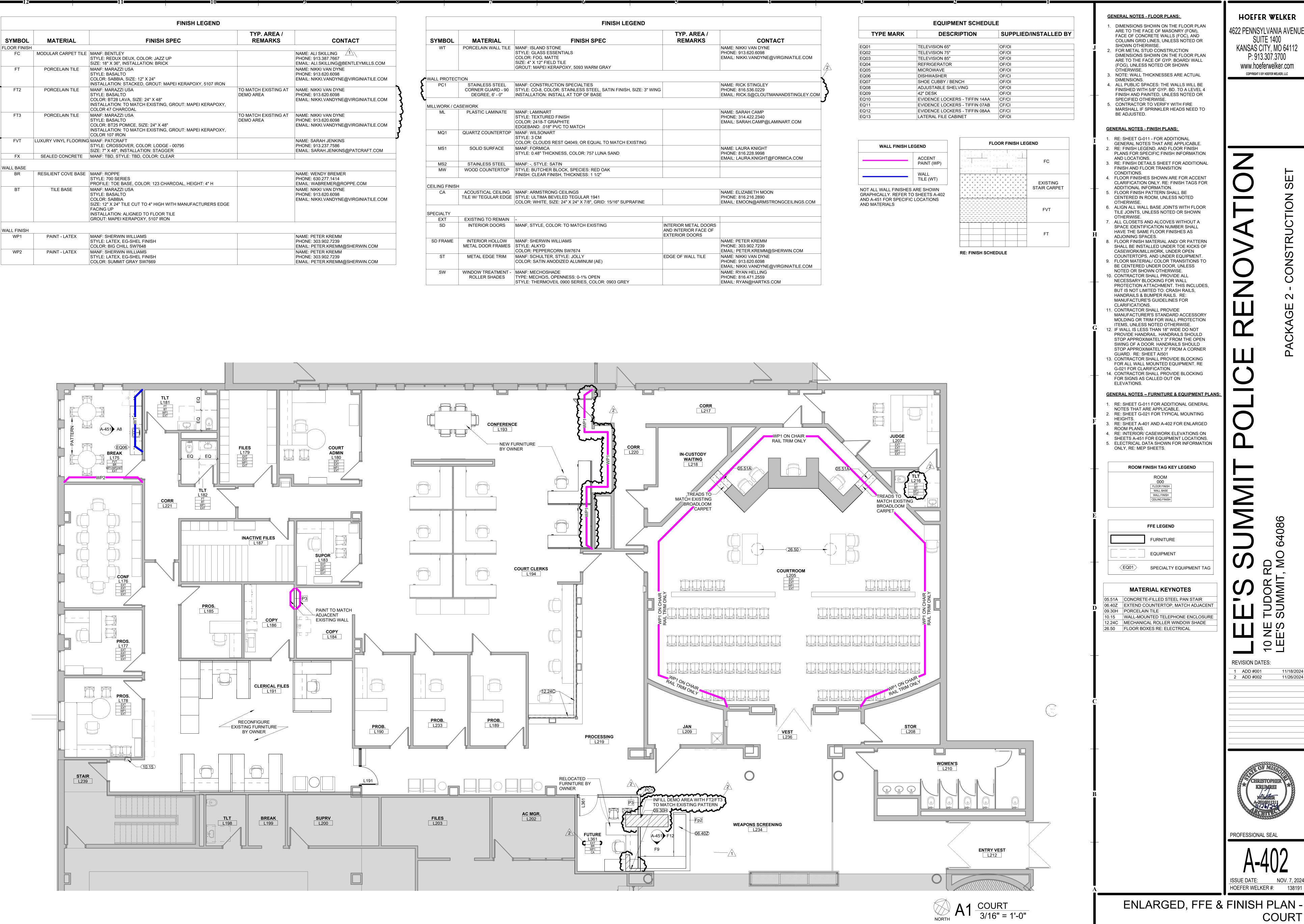
**REVISION DATES:** 

2 ADD #002

3 ASI #001

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			FINISH LEGEND						FINISH LEGEND		
	SYMBOL	MATERIAL	FINISH SPEC	TYP. AREA / REMARKS	CONTACT	_	SYMBOL	MATERIAL	FINISH SPEC	TYP. AREA / REMARKS	C
FI	LOOR FINISH				Λ		WT	PORCELAIN WALL TILE			NAME: NIKKI VAN DY
	FC	MODULAR CARPET TILE	STYLE: REDUX DEUX, COLOR: JAZZ UP SIZE: 18" X 36", INSTALLATION: BRICK		NAME: ALI SKILLING 1 PHONE: 913.387.7667 EMAIL: ALI.SKILLING@BENTLEYMILLS.COM	_			STYLE: GLASS ESSENTIALS COLOR: FOG, MATTE SIZE: 4" X 12" FIELD TILE		PHONE: 913.620.609 EMAIL: NIKKI.VANDY
2	FT	PORCELAIN TILE	MANF: MARAZZI USA STYLE: BASALTO COLOR: SABBIA, SIZE: 12" X 24"		NAME: NIKKI VAN DYNE PHONE: 913.620.6098 EMAIL: NIKKI.VANDYNE@VIRGINIATILE.COM				GROUT: MAPEI KERAPOXY, 5093 WARM GRAY		
	FT2	PORCELAIN TILE	INSTALLATION: STACKED, GROUT: MAPEI KERAPOXY, 5107 IRON MANF: MARAZZI USA STYLE: BASALTO COLOR: BT28 LAVA, SIZE: 24" X 48"	TO MATCH EXISTING AT DEMO AREA	NAME: NIKKI VAN DYNE PHONE: 913.620.6098 EMAIL: NIKKI.VANDYNE@VIRGINIATILE.COM	}	PC1	STAINLESS STEEL CORNER GUARD - 90 DEGREE, 6' - 0"	MANF: CONSTRUCTION SPECIALTIES STYLE: CO-8, COLOR: STAINLESS STEEL, SATIN FINISH, SIZE: 3" WII INSTALLATION: INSTALL AT TOP OF BASE	NG	NAME: RICK STINGL PHONE: 816.536.022 EMAIL: RICK.S@CLC
			INSTALLATION: TO MATCH EXISTING, GROUT: MAPEI KERAPOXY,			<b>\</b>	MILLWORK / C	ASEWORK			
	FT3	PORCELAIN TILE	COLOR 47 CHARCOAL MANF: MARAZZI USA STYLE: BASALTO	TO MATCH EXISTING AT DEMO AREA	NAME: NIKKI VAN DYNE PHONE: 913.620.6098	Ş	ML	PLASTIC LAMINATE	MANF: LAMINART STYLE: TEXTURED FINISH COLOR: 2418-T GRAPHITE		NAME: SARAH CAMP PHONE: 314.422.234 EMAIL: SARAH.CAMP
ر ک			COLOR: BT25 POMICE, SIZE: 24" X 48" INSTALLATION: TO MATCH EXISTING, GROUT: MAPEI KERAPOXY, COLOR 107 IRON		EMAIL: NIKKI.VANDYNE@VIRGINIATILE.COM	3	MQ1	QUARTZ COUNTERTOP	EDGEBAND: .018" PVC TO MATCH MANF: WILSONART STYLE: 3 CM		
	FVT	LUXURY VINYL FLOORING	STYLE: CROSSOVER, COLOR: LODGE - 00795 SIZE: 7" X 48", INSTALLATION: STAGGER		NAME: SARAH JENKINS PHONE: 913.237.7586 EMAIL: SARAH.JENKINS@PATCRAFT.COM		MS1	SOLID SURFACE	COLOR: CLOUDS REST Q4049, OR EQUAL TO MATCH EXISTING MANF: FORMICA STYLE: 0.48" THICKNESS, COLOR: 757 LUNA SAND		NAME: LAURA KNIG PHONE: 816.228.999
	FX	SEALED CONCRETE	MANF: TBD, STYLE: TBD, COLOR: CLEAR			_					EMAIL: LAURA.KNIG
W	ALL BASE						MS2	STAINLESS STEEL	MANF: -, STYLE: SATIN		
	BR	RESILIENT COVE BASE	MANF: ROPPE STYLE: 700 SERIES PROFILE: TOE BASE, COLOR: 123 CHARCOAL, HEIGHT: 4" H		NAME: WENDY BREMER PHONE: 630.277.1414 EMAIL: WABREMER@ROPPE.COM		MW	WOOD COUNTERTOP	STYLE: BUTCHER BLOCK, SPECIES: RED OAK FINISH: CLEAR FINISH, THICKNESS: 1 1/2"		
	BT	TILE BASE	MANF: MARAZZI USA STYLE: BASALTO COLOR: SABBIA SIZE: 12" X 24" TILE CUT TO 4" HIGH WITH MANUFACTURERS EDGE		NAME: NIKKI VAN DYNE PHONE: 913.620.6098 EMAIL: NIKKI.VANDYNE@VIRGINIATILE.COM	-	CEILING FINISI CA	ACOUSTICAL CEILING	MANF: ARMSTRONG CEILINGS STYLE: ULTIMA BEVELED TEGULAR 1941 COLOR: WHITE, SIZE: 24" X 24" X 7/8", GRID: 15/16" SUPRAFINE		NAME: ELIZABETH M PHONE: 816.216.289 EMAIL: EMOON@AR
			FACING UP INSTALLATION: ALIGNED TO FLOOR TILE GROUT: MAPEI KERAPOXY, 5107 IRON				SPECIALTY EXT	EXISTING TO REMAIN			
W	ALL FINISH					-	SD	INTERIOR DOORS	MANF, STYLE, COLOR: TO MATCH EXISTING	INTERIOR METAL DOORS AND INTERIOR FACE OF EXTERIOR DOORS	3
	WP1	PAINT - LATEX	MANF: SHERWIN WILLIAMS STYLE: LATEX, EG-SHEL FINISH COLOR: BIG CHILL SW7648		NAME: PETER KREMM PHONE: 303.902.7239 EMAIL: PETER.KREMM@SHERWIN.COM	_	SD FRAME	INTERIOR HOLLOW METAL DOOR FRAMES	MANF: SHERWIN WILLIAMS STYLE: ALKYD COLOR: PEPPERCORN SW7674		NAME: PETER KREM PHONE: 303.902.723 EMAIL: PETER.KREM
	WP2	PAINT - LATEX	MANF: SHERWIN WILLIAMS STYLE: LATEX, EG-SHEL FINISH COLOR: SUMMIT GRAY SW7669		NAME: PETER KREMM PHONE: 303.902.7239 EMAIL: PETER.KREMM@SHERWIN.COM		ST	METAL EDGE TRIM	MANF: SCHULTER, STYLE: JOLLY COLOR: SATIN ANODIZED ALUMINUM (AE)	EDGE OF WALL TILE	NAME: NIKKI VAN DY PHONE: 913.620.609 EMAIL: NIKKI.VANDY
							SW	WINDOW TREATMENT - ROLLER SHADES	MANF: MECHOSHADE TYPE: MECHO/5, OPENNESS: 0-1% OPEN STYLE: THERMOVEIL 0900 SERIES, COLOR: 0903 GREY		NAME: RYAN HELLIN PHONE: 816.471.255 EMAIL: RYAN@HAR



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1/8" = 1'

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**SUITE 1400** DIMENSIONS SHOWN ON THE FLOOR PLAN FINISHED WITH 5/8" GYP. BD. TO A LEVEL 4 MARSHALL IF SPRINKLER HEADS NEED TO Ш S CLARIFICATION ONLY. RE: FINISH TAGS FOR TRUCTION SHALL BE INSTALLED UNDER TOE KICKS OF CONS<sup>-</sup> PROTECTION ATTACHMENT. THIS INCLUDES,  $\sim$ Ш С CKA 4 Ω GENERAL NOTES - FURNITURE & EQUIPMENT PLANS 5. ELECTRICAL DATA SHOWN FOR INFORMATION ROOM FINISH TAG KEY LEGEND ROOM 000 FLOOR FINISH WALL BASE WALL FINISH CEILING FINISH 4086 FFE LEGEND FURNITURE Ő , MO EQUIPMENT EQ01 SPECIALTY EQUIPMENT TAG TUDOR MATERIAL KEYNOTES ЦN ОЩ -**REVISION DATES:** 1 ADD #001 11/18/2024 11/26/2024 2 ADD #002 CHRISTOPHER KRUMREI A-2016011211 11/26/24

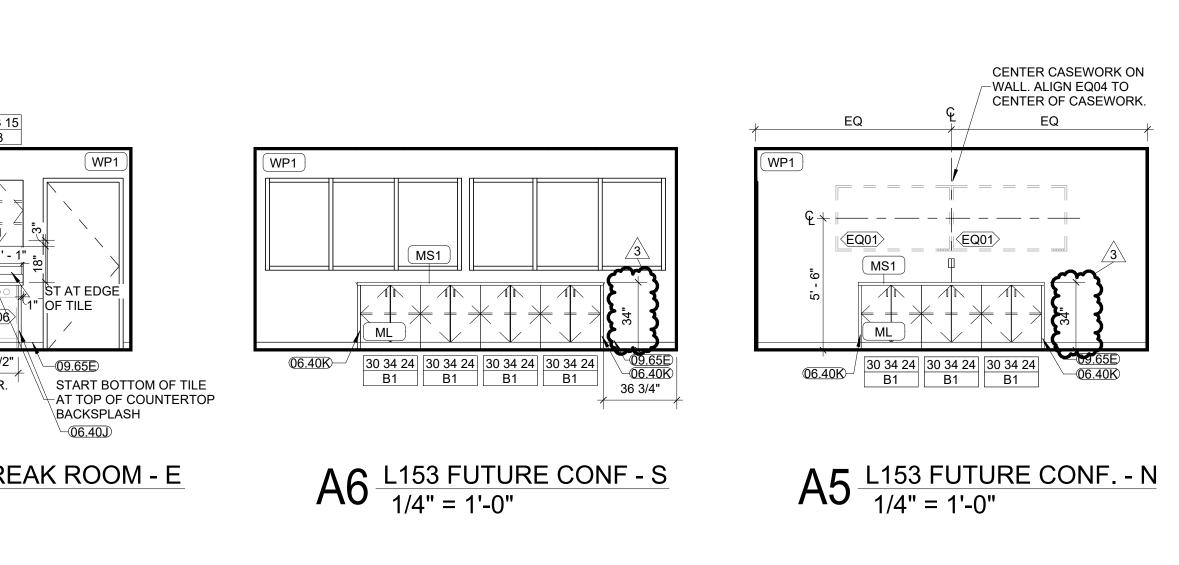
> PROFESSIONAL SEAL -402 NOV. 7, 2024 ISSUE DATE: HOEFER WELKER #: 138191

> > COURT

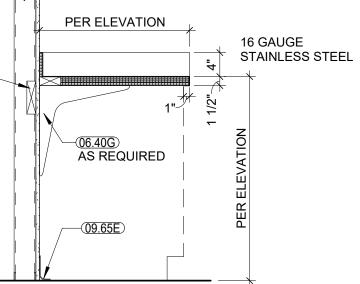
J	
3"=1'	
1 1/2" = 1'-0" 0 1 1	
4 0 4 0	
G 	
3/4" = 1'-0" 3 0	$\frac{3 \frac{1}{8}}{1} \frac{8' - 11''}{(1 - 1)^{1}}$
	MQ1 MQ1 MQ1 MQ1 REUSE EXISTING CASEWORK MQ1 MQ1 CASEWORK REUSE EXISTING CASEWORK REUSE EXISTING CASEWORK
1/2" = 1'-0" 0 2	F12 L234 - WEAPONS SCREENING - W 1/4" = 1'-0" F9 L234 - WEAPONS SCREENING - S 1/4" = 1'-0"
3/8" = 1'-0" 12 0 2 4	CABINET INTERIOR P-LAM SHALL MATCH EXTERIOR FLEC. OUTLET
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	ELEC. OUTLET RE: MEP LIGHT VALANCE, RE: INT. ELEVS. FOR LOCATIONS
1/4" = 1'-0" 4 C	TYPE W4 - CASEWORK SECTIONTYPE W1/W3 - CASEWORK SECTIONTY $3/4" = 1'-0"$ $3/4" = 1'-0"$ $3/4" = 1'-0"$
1/4 16 24 0	
	BOUIPMENT SCHEDULE         TYPE MARK       DESCRIPTION       SUPPLIED/INSTALLED BY
1/8" = 1'-0" 0	EQ01     TELEVISION 65"     OF/OI       EQ02     TELEVISION 75"     OF/OI       EQ03     TELEVISION 85"     OF/OI       EQ04     REFRIGERATOR     OF/OI
	EQ05MICROWAVEOF/OIEQ06DISHWASHEROF/CIEQ07SHOE CUBBY / BENCHOF/OIEQ08ADJUSTABLE SHELVINGOF/OIEQ0942" DESKOF/OIEQ10EVIDENCE LOCKERSTIFEIN 144ACE/OI3236 34 2433 34 2424 1/2"
	EQ11EVIDENCE LOCKERS - TIFFIN 07ABCF/CIEQ12EVIDENCE LOCKERS - TIFFIN 08AACF/CIEQ13LATERAL FILE CABINETOF/OI
1/16" = 1'-0" 0 16 32 48	A8 <u>L175 COURTS BRE</u> 1/4" = 1'-0"
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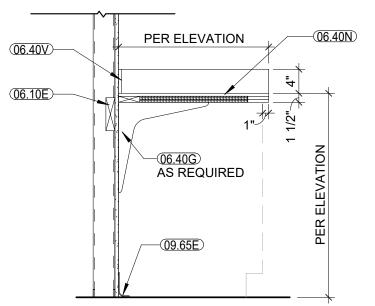
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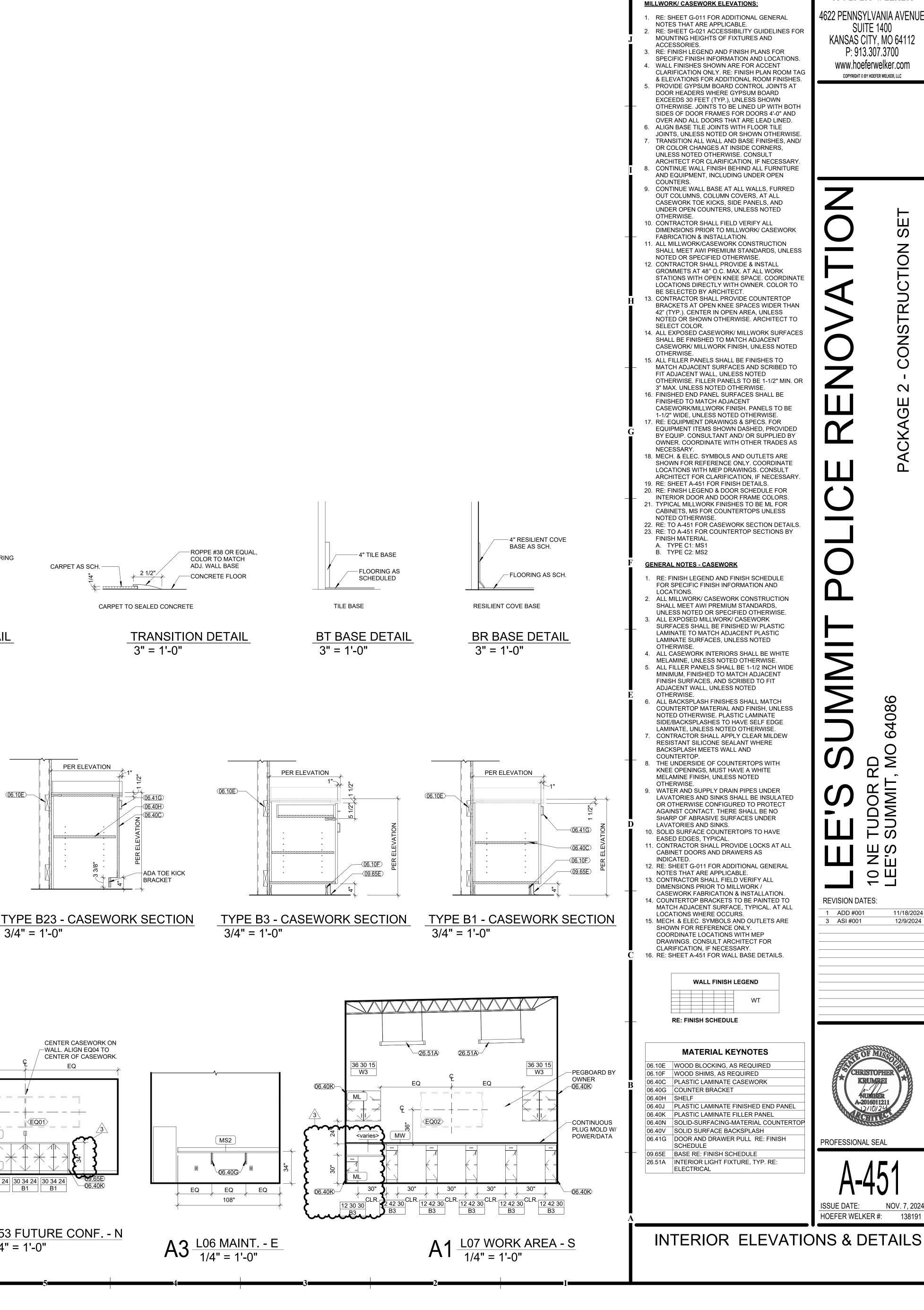


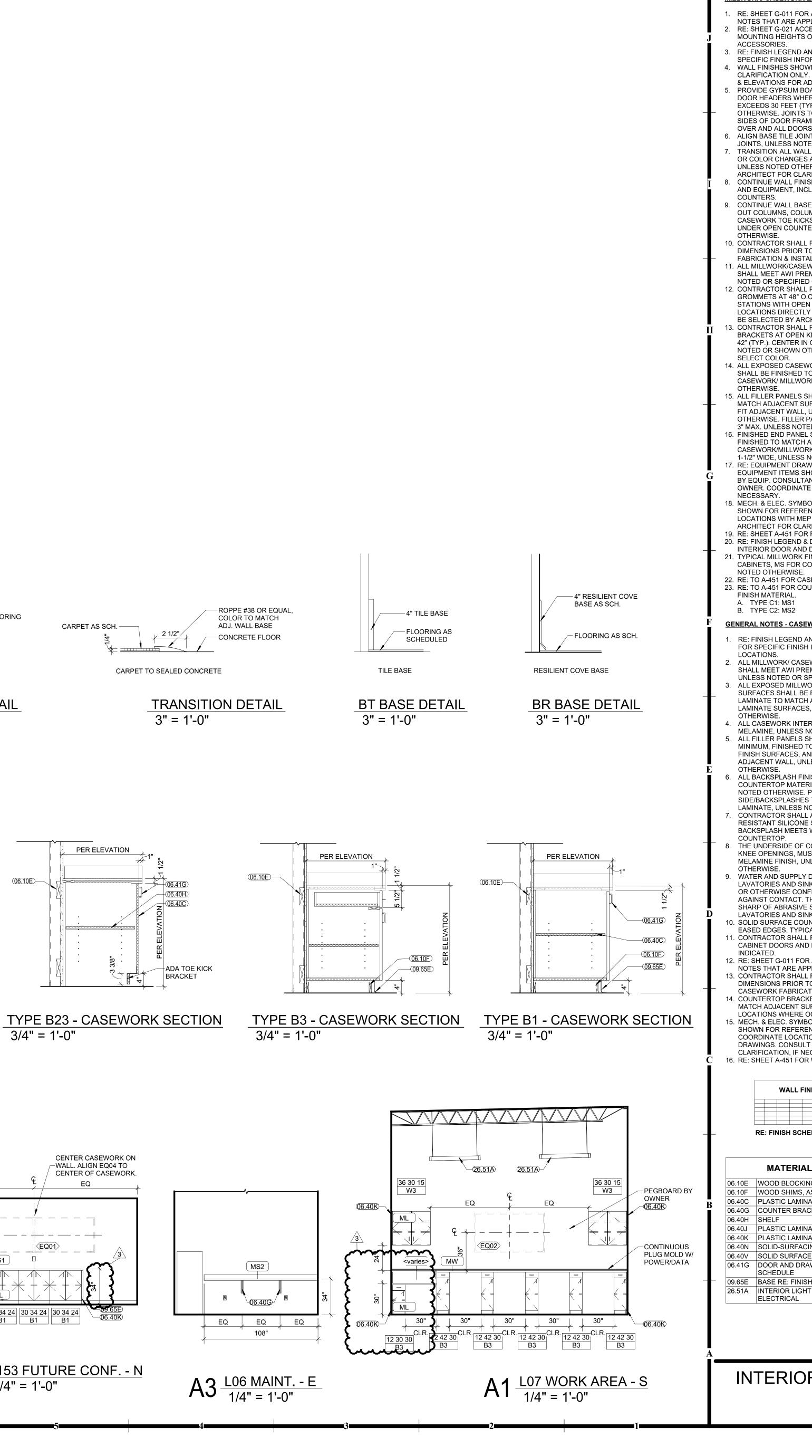


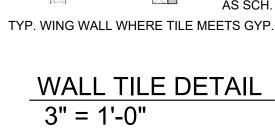


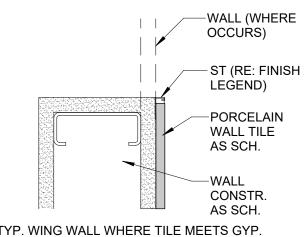




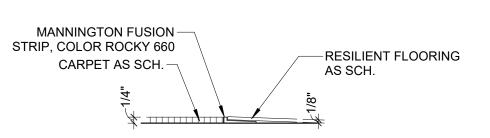




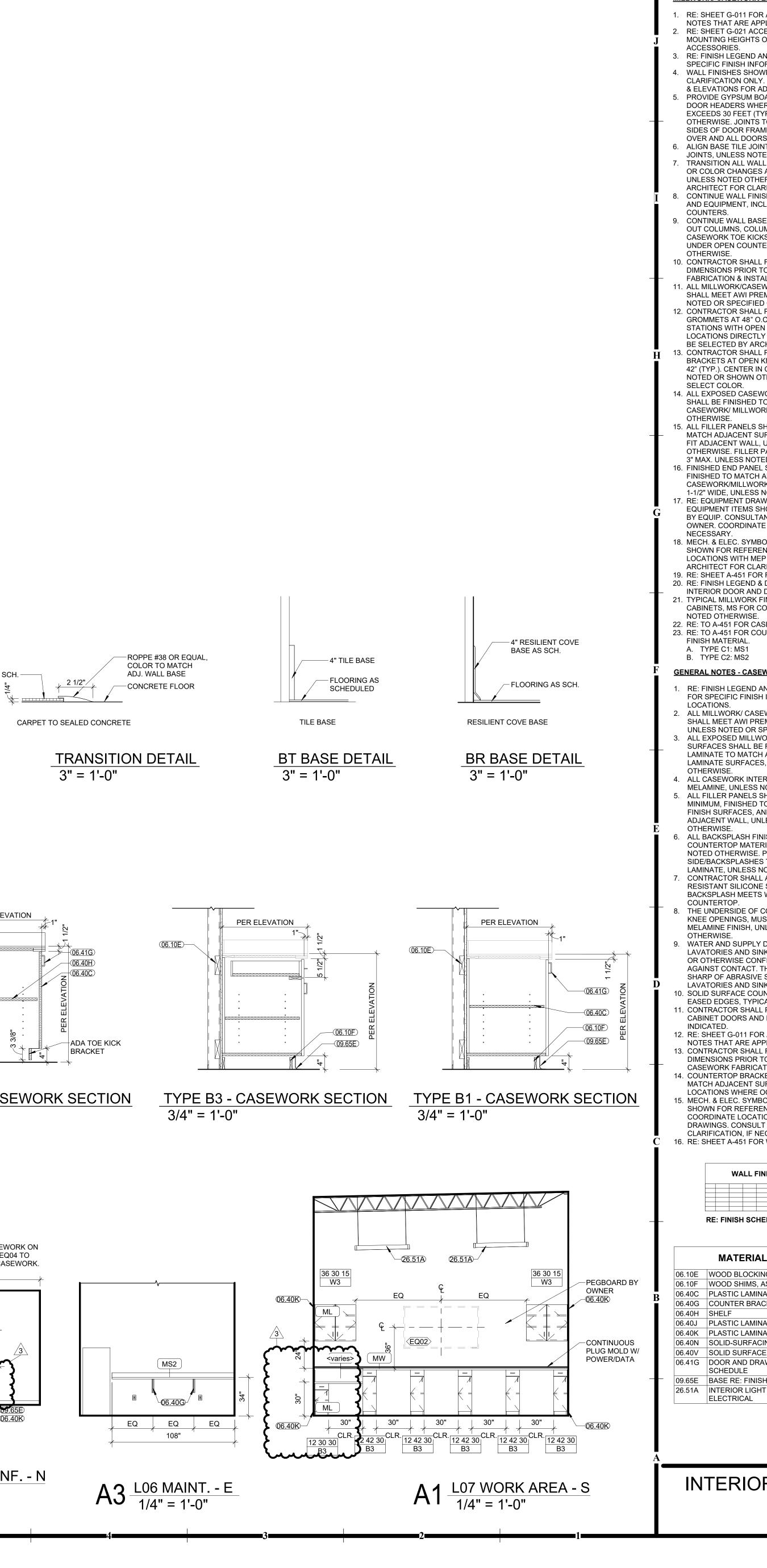








CARPET TO RESILIENT FLOORING



### **GENERAL NOTES - INTERIOR ELEVATIONS &**

CLARIFICATION ONLY. RE: FINISH PLAN ROOM TAG

SHALL MEET AWI PREMIUM STANDARDS, UNLESS

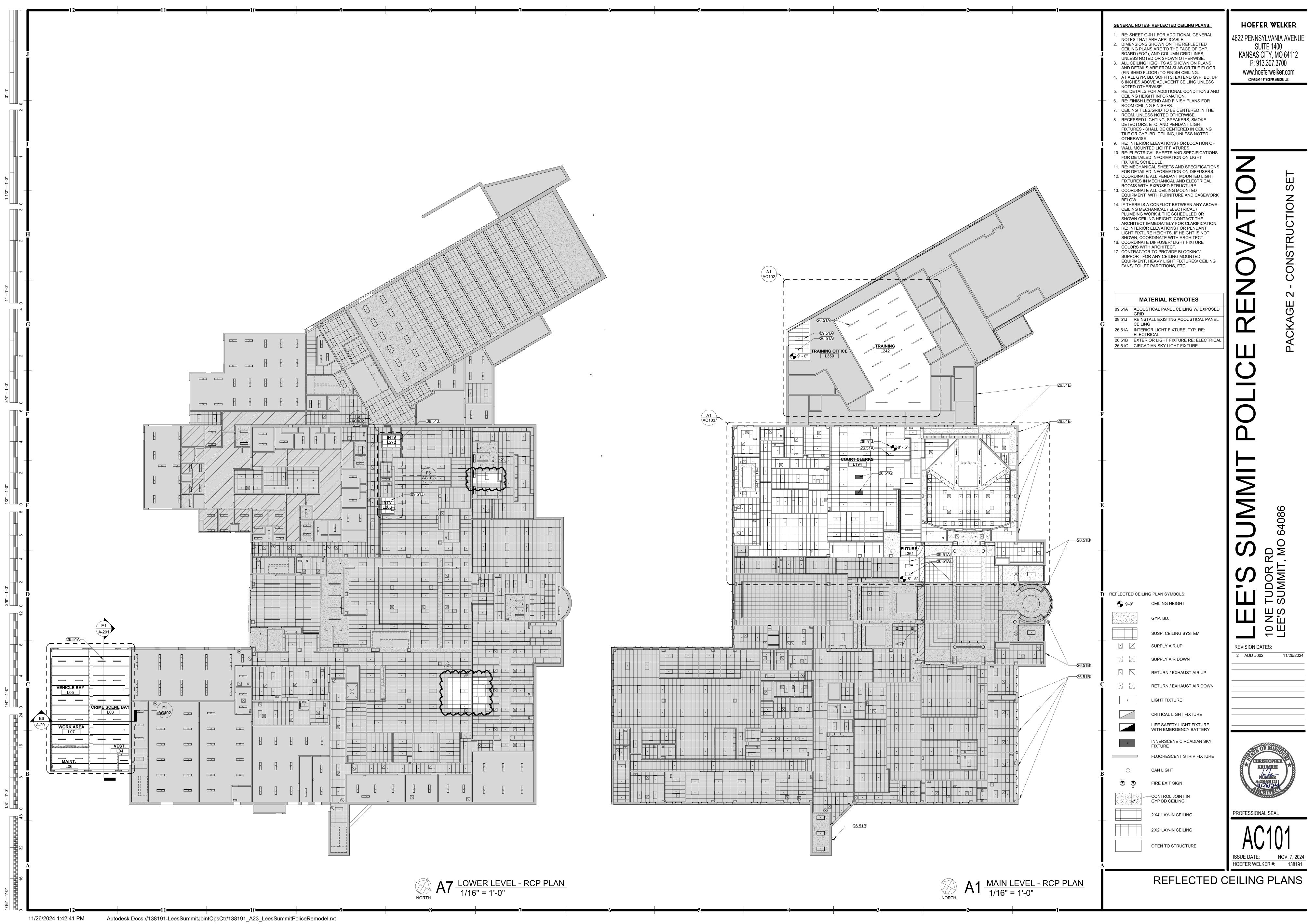
LOCATIONS DIRECTLY WITH OWNER. COLOR TO BRACKETS AT OPEN KNEE SPACES WIDER THAN NOTED OR SHOWN OTHERWISE. ARCHITECT TO

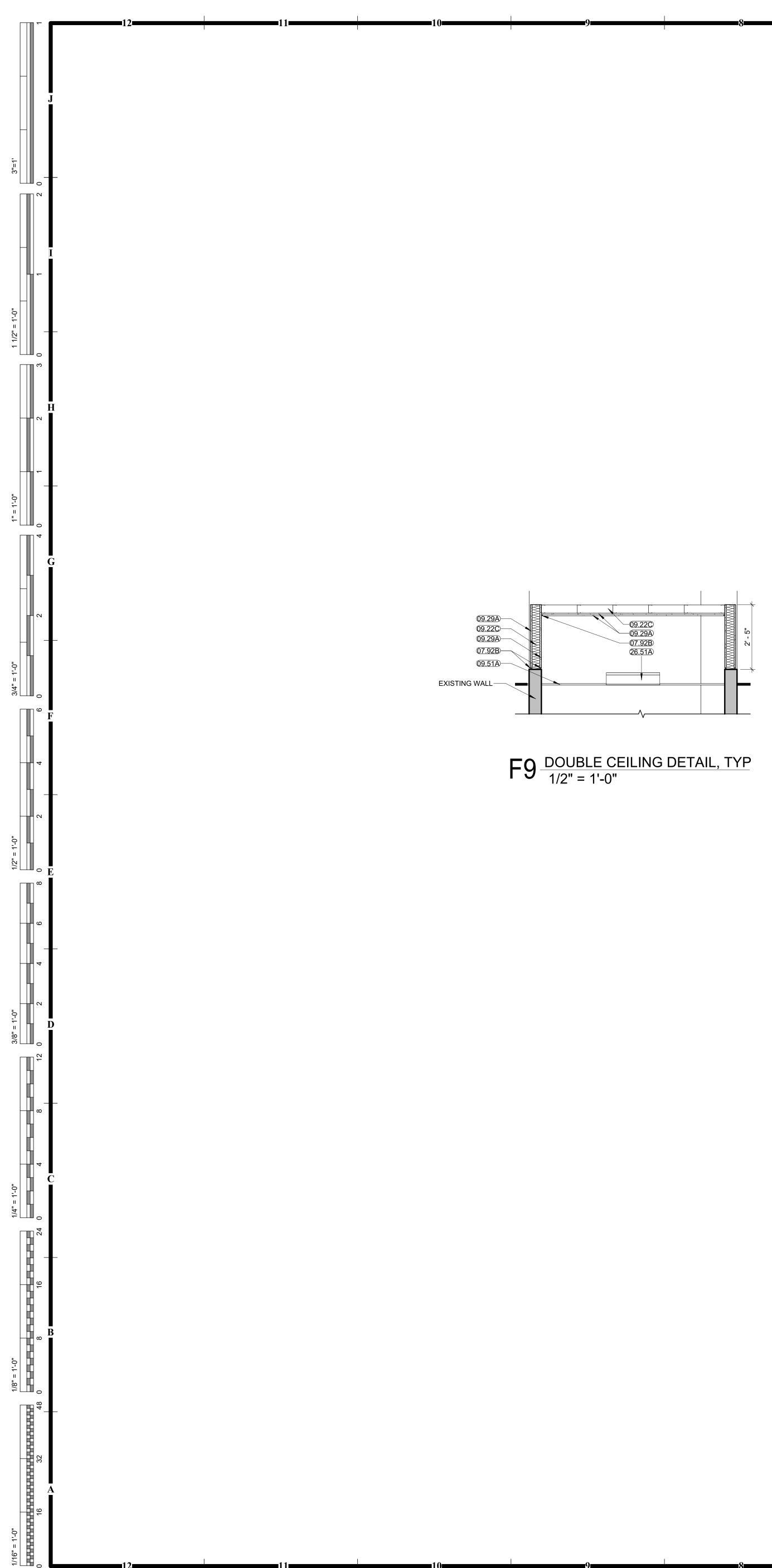
CASEWORK/ MILLWORK FINISH, UNLESS NOTED

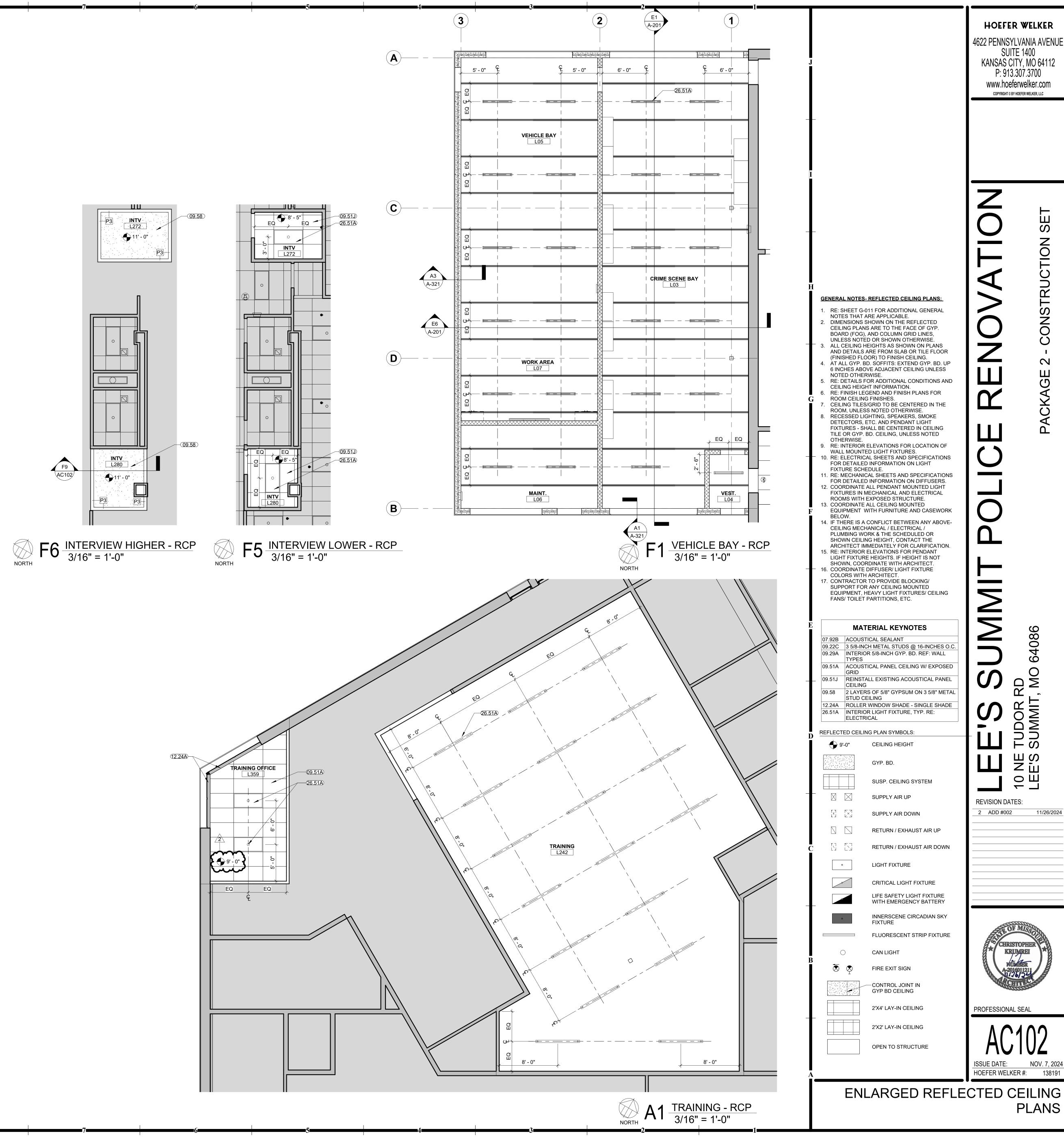
MATCH ADJACENT SURFACES AND SCRIBED TO OTHERWISE. FILLER PANELS TO BE 1-1/2" MIN. OR

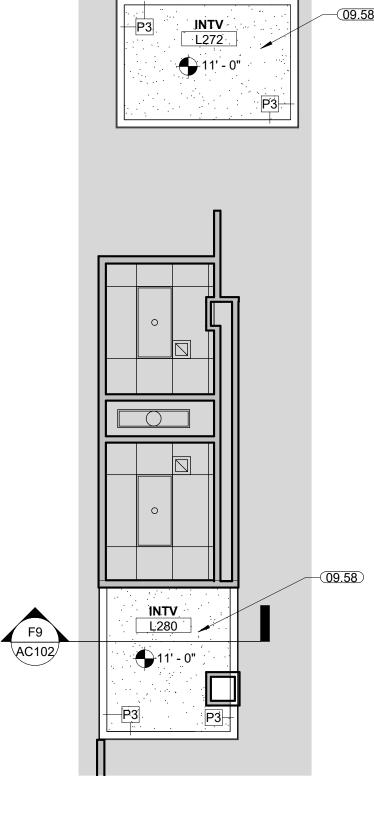
WALL FINISH LEGEND WT

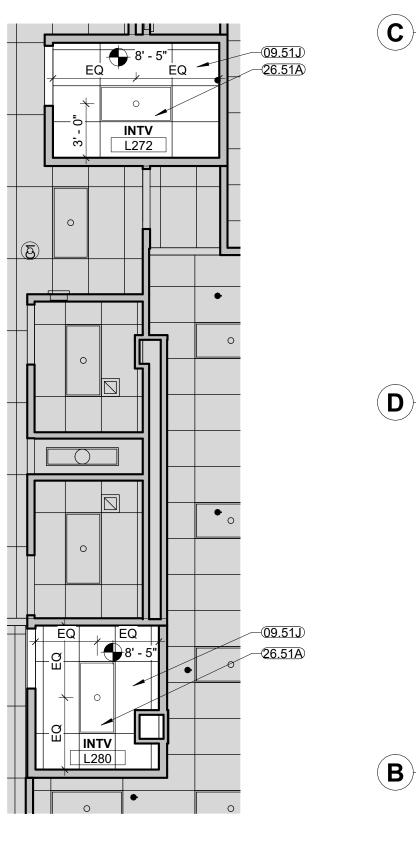


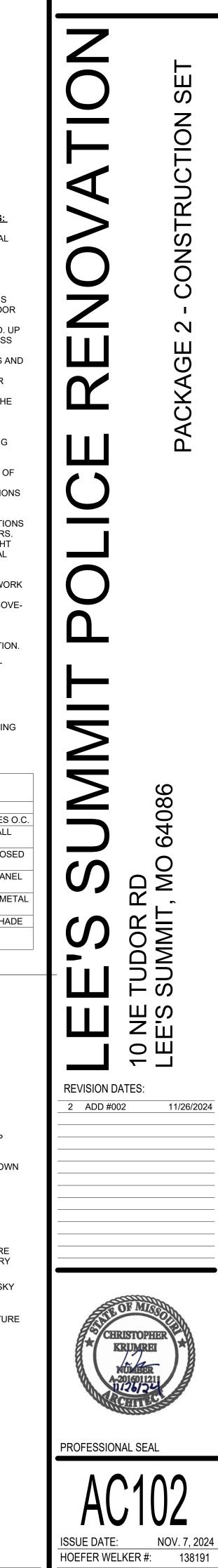












PLANS

SUSP. CEILING SYSTEM

RETURN / EXHAUST AIR UP

RETURN / EXHAUST AIR DOWN

CRITICAL LIGHT FIXTURE

LIFE SAFETY LIGHT FIXTURE WITH EMERGENCY BATTERY

INNERSCENE CIRCADIAN SKY FIXTURE

FLUORESCENT STRIP FIXTURE

2'X4' LAY-IN CEILING

OPEN TO STRUCTURE

	26.51A     26.51A     0     0       0     0     0     0       0     0     0     0       0     0     0     0       0     0     0     0       0     0     0     0       0     0     0     0	

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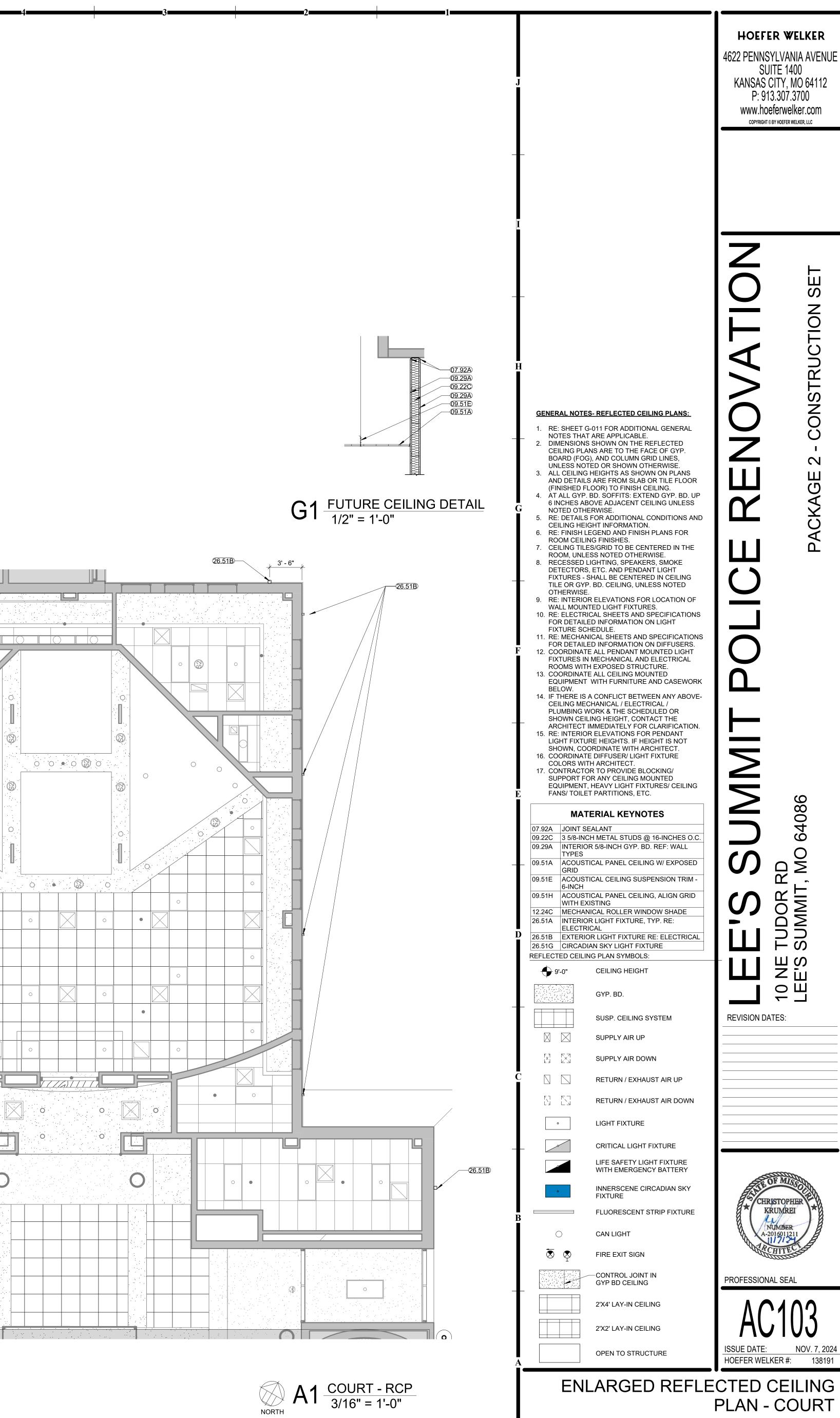
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1/8" = 1'-0"

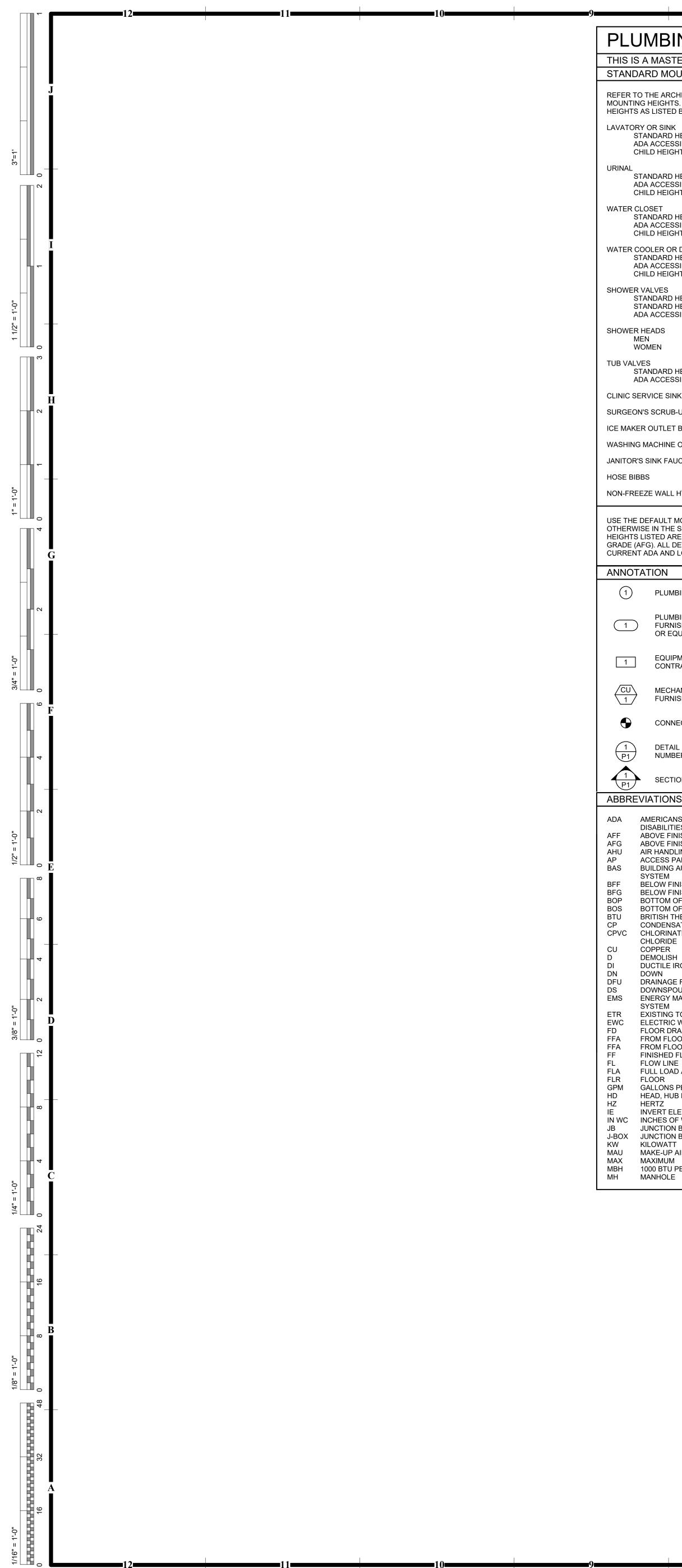
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## 4622 PENNSYLVANIA AVENUE SUITE 1400 KANSAS CITY, MO 64112



ING SYMBOLS						
TER LEGEND AND NOT ALL SYMB OUNTING HEIGHTS	OLS OR ABBRE	/IATIONS ARE USE PIPING SYMBOLS			PIPING LINETYPES	
CHITECTURAL DRAWINGS FOR PLUMBING F		D D	FLOOR SINK (FS	;), SIZE & TYPE	CW	DOMESTIC COLD W
TS. UNO, INSTALL PLUMBING FIXTURES WIT D BELOW WITH FINAL APPROVAL BY THE AF	H THE MOUNTING		FLOOR DRAIN (F	FD), SIZE & TYPE	scw	SOFTENED COLD W
		(Ô)	ROOF DRAIN (RI	D), SIZE & TYPE	нw	DOMESTIC HOT WA
SSIBLE 34	" FLOOR TO RIM " FLOOR TO RIM " FLOOR TO RIM		BALL VALVE		HWR	DOMESTIC HOT WA
		×	CONTROL VALV		140°	DOMESTIC HOT WA
SSIBLE 17	" FLOOR TO RIM " FLOOR TO RIM		SHUTOFF VALVE     CHECK VALVE	Ξ		TRAP PRIMER LINE
GHT 14	" FLOOR TO RIM		BUTTERFLY VAL	VF		SOIL PIPING - BELO
D HEIGHT 15 SSIBLE 17" TO 19" FLOOR T	" FLOOR TO RIM	×		VE WITH PRESSURE PORTS		WASTE PIPING - AB
	"FLOOR TO RIM	ۍ	WATER METER			WASTE PIPING - BEI
	OOR TO SPOUT		STRAINER		GW	GREASE WASTE - A
	OOR TO SPOUT		STRAINER WITH	BLOWOFF	GW	GREASE WASTE - B
D HEIGHT - MEN 48" FLOOR	TO CENTERLINE	<u>&amp;</u>	RELIEF/SAFETY	VALVE	CGWV	COMBINATION GRE
	TO CENTERLINE	×	SOLENOID VALV		CWV	COMBINATION WAS
		\$	GAS PRESSURE RED		AW	ACID WASTE - ABO
	TO CENTERLINE TO CENTERLINE	——————————————————————————————————————	THERMOSTATIC		AW	ACID WASTE - BELC
D HEIGHT 32" FLOOR	TO CENTERLINE	× PA	PIPE ANCHOR		AV	ACID VENT (AV)
SSIBLE CENTER BETWEEN GRAB BA		EJ	EXPANSION JOI	NT	ST	STORM DRAIN - ABO
	" FLOOR TO RIM		BACKFLOW PRE	VENTER	ST	STORM DRAIN - BEL
	R TO FRONT RIM	<u></u>	PRESSURE GAU	IGE	OST	OVERFLOW STORM
	" FLOOR TO RIM	Ψ	THERMOMETER		VBG	VENT BELOW GRAD
AUCET FITTING 42" FLOOR	TO CENTERLINE		UNION	CTION	VBF	VENT BELOW FLOO
36" AFF	TO CENTERLINE	+	HOSE BIBB (HB)	CHON	CDH	CONDENSATE DRAI
L HYDRANTS 18" AFG <sup>-</sup>	TO CENTERLINE		· · · ·	WALL HYDRANT (NW)	CD	CONDENSATE DRAI
MOUNTING HEIGHTS SHOWN ABOVE UNLE	SS NOTED	<u></u> 个		MATIC AIR VENT OR VACUUM RELIEF	ACD	AUXILIARY CONDEN
E SPECIFICATIONS OR ELSEWHERE. MOUNT ARE ABOVE FINISHED FLOOR (AFF) OR ABOV	TING	₽	VALVE PRESSURE / VA		SPD	SUMP OR SEWAGE
DEVICES SHALL BE INSTALLED IN COMPLIA D LOCAL REQUIREMENTS.	NCE WITH		CLEANOUT		G	NATURAL GAS (G)
			CAP		MPG	MEDIUM PRESSURE
MBING PLAN NOTE CALLOUT		અ	WALL CLEANOU	T (WCO)	MPG	MEDIUM PRESSURE
		Ø	FLOOR CLEANO	UT (FCO)	LPG	LIQUEFIED PETROL
MBING EQUIPMENT DESIGNATION. (CONTRA NISHED AND INSTALLED). REFER TO PLUMB EQUIPMENT SCHEDULES		Ο	EXTERIOR CLEA	NOUT (ECO)	ws	WATER SERVICE (W
QUIPMENT SCHEDULES		ю	ELBOW UP		FP	FIRE PROTECTION (
IPMENT DESIGNATION (OWNER FURNISHED TRACTOR INSTALLED)	,	G+	ELBOW DOWN		PD	CONDENSATE PUM
			TEE DOWN		CA	COMPRESSED AIR (
HANICAL EQUIPMENT DESIGNATION (CONTR NISHED AND INSTALLED UNLESS NOTED OT		Q		I SHUT-OFF VALVE (SOV)		
NECTION POINT OF NEW WORK TO EXISTIN	G	<del>1</del> 2	ELBOW DOWN V	VITH SHUT-OFF VALVE (SOV)	MEDICAL PIPING L	NETYPES
			TEE UP WITH SH	IUT-OFF VALVE (SOV)	MA	MEDICAL AIR (MA)
AIL REFERENCE UPPER NUMBER INDICATES IBER LOWER NUMBER INDICATES SHEET NU			TEE DOWN WITH	H SHUT OFF VALVE (SOV)	MV HE	MEDICAL VACUUM ( HELIUM (HE)
TION CUT DESIGNATION		¶"A"	WATER HAMMEI (A, B, C, D, & E)	R ARRESTER (WHA) WITH PDI SIZES,	IA	INSTRUMENT AIR (I
NS		<b>@</b>	RECIRCULATION	N PUMP	IV	INSTRUMENT VACU
ANS WITH MIN MINIMUM			P-TRAP		N2	NITROGEN (N2)
TIES ACT N/C NORMALLY		; <b>∓</b> ;	GAS COCK		N2O	NITROUS OXIDE (N2
INISHED GRADE NIC NOT IN CO DLING UNIT ORD OVERFLOW	V ROOF DRAIN	<u> </u>		/ITH DISTRIBUTION UNIT	02	OXYGEN (O2)
PANEL PDI PLUMBING G AUTOMATION INSTITUTE PH/Ø PHASE	DRAINAGE	<u> </u>			EV	EVAC/WAGD (EV)
		MEDICAL PIPING S				CARBON DIOXIDE (C
OF PIPE PVC POLYVINYI OF STRUCTURE RCP REINFORC	L CHLORIDE ED CONCRETE	• -	OXYGEN OUTLE		VE	MEDICAL VACUUM E
THERMAL UNIT PIPE ISATE PUMP RD ROOF DRA		<b>_</b>	MEDICAL AIR OL		DA	DENTAL AIR (DA)
NATED POLYVINYL RPM REVOLUTIO DE MINUTE RTU ROOFTOP		•	NITROGEN OUT		DV	DENTAL VACUUM (E
SH SF SQUARE F IRON SP SUMP	EET		MEDICAL VACUU	JM INLET	FW1	FILTERED WATER (F
	S STEEL SEWER, SOIL				———FW2———	FILTERED WATER W
POUT STACK MANAGEMENT TDH TOTAL DYN TFA TO FLOOR					DA ROR	REVERSE OSMOSIS
G TO REMAIN TFB TO FLOOR C WATER COOLER TYP TYPICAL		LINETYPE LEGEN	D			REVERSE OSMOSIS
DRAIN UL UNDERWR LOOR ABOVE LABORATO	DRIES, INC.			T LINETYPES ARE USED IN		
	SE	EXISTING, TO BE DEMO	DLISHED, TO BE INC	DICATE THE STATUS OF ITEMS AS CLUDED AS PART OF NEW WORK TO BE PROVIDED IN THE FUTURE.		
D FLOOR OTHERWIS		THE STATUS OF ITEMS	USING THESE LINE	ETYPES ARE RELATIVE TO THE SHOWN IN DRAWINGS IS NOT		
				SSARY CONSTRUCTION PHASING,		
D FLOOR OTHERWIS NE UPS UNINTERR AD AMPS POWER SU VCP VITRIFIED S PER MINUTE VFD VARIABLE UB DRAIN DRIVE	CLAY PIPE FREQUENCY	WHICH IS DETERMINED	D BY THE CONTRAC			
D FLOOR OTHERWIS NE UPS UNINTERR AD AMPS VCP VITRIFIED S PER MINUTE VFD VARIABLE UB DRAIN VS VENT STAC ELEVATION VTR VENT THR	CLAY PIPE FREQUENCY	WHICH IS DETERMINED RESPONSIBILITIES. ANY DOCUMENTS ARE GEN	) BY THE CONTRAC Y SUCH PHASES DE IERAL AND ONLY IN	ESCRIBED IN THE CONSTRUCTION TENDED TO INDICATE A BROAD		
D FLOOR NE AD AMPS S PER MINUTE UB DRAIN ELEVATION OF WATER COLUMN W/O WITHOUT	CLAY PIPE FREQUENCY CK OUGH ROOF	WHICH IS DETERMINED RESPONSIBILITIES. ANY DOCUMENTS ARE GENE ORDER FOR THE SAKE	D BY THE CONTRAC Y SUCH PHASES DE ERAL AND ONLY IN OF DESCRIBING TI	ESCRIBED IN THE CONSTRUCTION		
D FLOOR NE AD AMPS S PER MINUTE UB DRAIN ELEVATION OF WATER COLUMN WN BOX TT UD FLOOR OF WATER COLUMN WC WATER COLUMN WC WC WATER COLUMN WC WC WATER COLUMN WC WC WATER COLUMN WC WC WATER COLUMN WC WC WC WC WC WC WC WC WC WC WC WC WC	CLAY PIPE FREQUENCY CK OUGH ROOF	WHICH IS DETERMINED RESPONSIBILITIES. ANY DOCUMENTS ARE GENE ORDER FOR THE SAKE LINETYPES MAY BE USE	D BY THE CONTRAC Y SUCH PHASES DE ERAL AND ONLY IN OF DESCRIBING TI	ESCRIBED IN THE CONSTRUCTION TENDED TO INDICATE A BROAD HE PROJECT. THE FOLLOWING		
D FLOOR NE AD AMPS S PER MINUTE UB DRAIN ELEVATION OF WATER COLUMN N BOX TT UD FLOOR OF WATER COLUMN N BOX UD C S OTHERWIS VCP VFD VFD VFD VFD VFD VFD VFD VFD VFD VFD	CLAY PIPE FREQUENCY CK OUGH ROOF DLUMN ACK IPPLY FIXTURE	WHICH IS DETERMINED RESPONSIBILITIES. ANY DOCUMENTS ARE GENE ORDER FOR THE SAKE LINETYPES MAY BE USE	D BY THE CONTRAC Y SUCH PHASES DE ERAL AND ONLY IN OF DESCRIBING THE ED ON ANY DEVICE	ESCRIBED IN THE CONSTRUCTION TENDED TO INDICATE A BROAD HE PROJECT. THE FOLLOWING		

4	
1	GE
	1.
WATER (CW)	2.
WATER (SCW)	۷.
/ATER (HW)	
ATER RECIRC. (HWR)	3.
/ATER (140°)	0.
E (T)	4.
OVE FLOOR (S)	
OW FLOOR (S)	5.
BOVE FLOOR (W)	6.
BELOW FLOOR (W)	7.
ABOVE FLOOR (GW)	8.
BELOW FLOOR (GW)	0.
REASE WASTE AND VENT (CGWV)	
ASTE AND VENT (CWV)	9.
	10
OVE FLOOR (AW)	11
LOW FLOOR (AW)	40
	12
BOVE FLOOR (ST)	13
ELOW FLOOR (ST)	
RM DRAIN - ABOVE FLOOR (OST)	
ADE (VBG)	14
OOR (VBF)	15
(ID)	16
AIN - HIGH EFFICIENCY RTU (CDH)	17.
AIN (CD)	
ENSATE DRAIN (ACD)	
ENSATE DRAIN (ACD)	GE
E PUMP DISCHARGE (SPD)	1.
RE NATURAL GAS (MPG)	
RE NATURAL GAS ON ROOF (MPG)	2.
ATER (NPW)	
DLEUM GAS (LPG)	3.
(WS)	0.
N (FP)	
MP DISCHARGE (PD)	4
R (CA)	4.
	5.
)	6.
И (VE)	0.
	7.
(IA)	
CUUM (IV)	
N20)	8.
	0.
	0
(CO2)	9.
AKE (AI)	10
I EXHAUST (VE)	
(DV)	
R (FW1)	
W/ SCALE INHIBITOR (FW2)	

### SIS (RO) SIS REMINERALIZATION (ROR)

### NERAL PLUMBING NOTES

- PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS OF THE PROJECT. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND OTHER DRAWINGS FOR ADDITIONAL REQUIREMENTS WHICH MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT, ENGINEER AND/OR OWNER OF CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
- DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT THE GENERAL SCOPE OF THE WORK. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND PLANS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY THE ARCHITECT OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
- PROVIDE TO THE ARCHITECT A COPY OF INSPECTION REPORTS AND APPROVAL CERTIFICATES FROM LOCAL AND STATE INSPECTIONS, REFER TO SPECIFICATIONS.
- INSTALLATION SHALL COMPLY WITH LEGALLY CONSTITUTED CODES AND THE REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION AND ALSO MEET ALL REQUIREMENTS OF THE LANDLORD. OBTAIN A COPY OF THE LANDLORD'S REQUIREMENTS AND REVIEW PRIOR TO SUBMITTING BID.
- PLANS AND SPECIFICATIONS GOVERN WHERE THEY EXCEED CODE REQUIREMENTS.
- REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF PLUMBING FIXTURES.
- DO NOT SCALE FLOOR PLANS FOR EXACT HORIZONTAL LOCATION OF PIPE ROUTING. INSTALL CONCEALED PIPING TIGHT TO THE STRUCTURE AND AS HIGH AS POSSIBLE. INSTALL EXPOSED PIPING TIGHT TO THE STRUCTURE, WALL OR CEILING AND AS HIGH AS POSSIBLE. COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS.
- VALVES SHALL BE LINE SIZE UNLESS OTHERWISE NOTED.
- PIPING IN FINISHED AREAS SHALL BE ROUTED CONCEALED; EXPOSED PIPING, WHERE NECESSARY, SHALL BE ROUTED AS HIGH AS POSSIBLE AND TIGHT TO WALLS.
- INSTALL NO PLASTIC PIPE OF ANY KIND ABOVE SLAB INSIDE THE BUILDING. INSTALL NO PLASTIC PIPE IN THE CEILING RETURN AIR PLENUM.
- COORDINATE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
- COORDINATE PIPING INSTALLATION WITH STRUCTURAL GRADE BEAMS, FOOTINGS, COLUMN PIERS, ETC. SLEEVE PIPING THROUGH GRADE BEAMS, FOOTING, ETC. WHERE REQUIRED AND AS NOTED ON PLANS. COORDINATE SLEEVE INSTALLATIONS WITH THE ARCHITECT, STRUCTURAL ENGINEER, STRUCTURAL CONTRACTOR AND GENERAL CONTRACTOR BEFORE CONCRETE IS INSTALLED.
- CLEAN PIPE STRAINERS PRIOR TO TURNING BUILDING OVER TO THE OWNER.

HAMMER ARRESTORS WHERE QUICK CLOSING VALVES ARE UTILIZED.

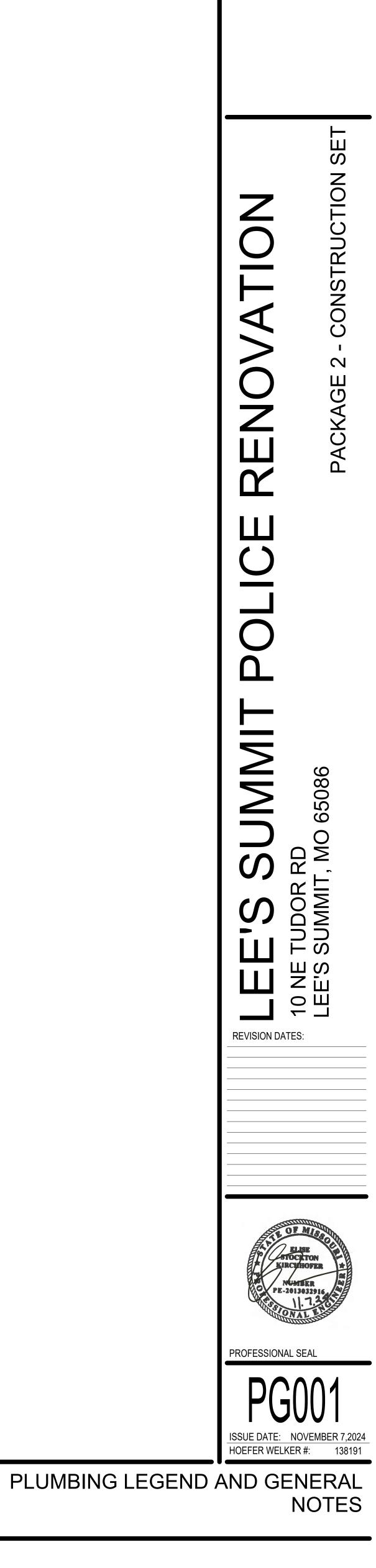
- PROVIDE TRAP PRIMERS WHERE REQUIRED BY LOCAL AUTHORITIES. COORDINATE PIPE ROUTING AWAY FROM ELECTRICAL PANELS. DO NOT INSTALL PIPING OVER
- ELECTRICAL PANELS. WATER HAMMER ARRESTORS SHALL BE SIZE "A" UNLESS NOTED OTHERWISE. PROVIDE WATER

### **ENERAL FIRE PROTECTION NOTES**

- PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS OF THE PROJECT. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND OTHER DRAWINGS FOR ADDITIONAL REQUIREMENTS WHICH MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT, ENGINEER AND/OR OWNER OF CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
- SYSTEM DESIGN, INSTALLATION AND MATERIALS SHALL BE IN ACCORDANCE WITH APPLICABLE NFPA STANDARDS. SYSTEM SHALL ALSO MEET ALL APPLICABLE BUILDING CODES, FIRE CODES AND THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION AND INSURANCE CARRIER. VERIFY REQUIREMENTS PRIOR TO BID SUBMITTAL.
- INFORMATION ON CONTRACT DOCUMENTS IS GENERAL INFORMATION AND FOR BID PURPOSES ONLY. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE FINAL SYSTEM DESIGN AND LAYOUT OF ALL COMPONENTS, COORDINATION WITH ALL OTHER TRADES, AND SYSTEM CALCULATIONS REQUIRED FOR APPROVAL BY THE AUTHORITY HAVING JURISDICTION, ENGINEER, AND OWNER'S INSURER.
- THE CONTRACTOR SHALL FOLLOW THE ENGINEER OF RECORD 'S SYSTEM DESIGN AND LAYOUT OF ALL COMPONENTS EXCEPT WHERE MODIFICATION TO THE DESIGN IS NECESSARY. MODIFICATIONS SHALL BE REFLECTED IN THE CONTRACTOR'S SHOP DRAWINGS AND CALCULATIONS.
- DEVIATIONS FROM ENGINEER'S DESIGN WILL NOT BE CONSIDERED UNLESS A FORMALLY SUBMITTED RFI IS RECEIVED AND APPROVED.
- THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT AND LABOR REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM AS INDICATED IN THE DRAWINGS AND SPECIFICATIONS.
- WHERE EXISTING SYSTEMS ARE PRESENT, CONTRACTOR SHALL MODIFY, RELOCATE AND/OR PROVIDE ADDITIONAL EQUIPMENT AS REQUIRED FOR SCOPE OF WORK FOR A COMPLETE AND OPERATIONAL SYSTEM. COORDINATE WITH WALLS, CEILINGS, LIGHTS, DIFFUSERS, STRUCTURE, OBSTRUCTIONS, ETC. IN AREAS AFFECTED BY SCOPE OF WORK. NEW EQUIPMENT SHALL BE COMPATIBLE WITH EXISTING SYSTEMS. CONTRACTOR SHALL REMOVE ALL ABANDONED EQUIPMENT, COORDINATE SYSTEM MODIFICATIONS TO MINIMIZE SYSTEM IMPAIRMENT, AND PROVIDE FIRE WATCH AND/OR INTERIM FIRE PROTECTION MEASURES WHERE REQUIRED BY THE AUTHORITY HAVING JURISDICTION, INSURANCE CARRIER OR OWNER.
- PROVIDE ADDITIONAL MATERIALS AND LABOR REQUIRED DUE TO LACK OF COORDINATION OR TO MEET AUTHORITY HAVING JURISDICTION AND INSURANCE CARRIER REQUIREMENTS AT NO ADDITIONAL COST TO THE OWNER.
- FORWARD COMPLETED CERTIFICATE OF COMPLETION AND CONTRACTOR MATERIAL TEST CERTIFICATES TO THE OWNER.
- PER IBC 107.3.4 & 107.3.4.1, FIRE PROTECTION SHOP DRAWINGS SHALL BE PROVIDED FOR AHJ REVIEW AND APPROVAL PRIOR TO INSTALLATION AND WILL BE DEFERRED SUBMITTALS.

### PLUMBING SHEET INDEX

SHEET NUMBER	SHEET NAME			
PG001	PLUMBING LEGEND AND GENERAL NOTES			
PD101	PLUMBING DEMOLITION PLANS			
PD401	ENLARGED PLUMBING DEMOLITION PLANS			
P-121	PLUMBING PLANS			
P-401	ENLARGED PLUMBING PLANS			
P-402	ENLARGED PLUMBING PLANS			
P-601	PLUMBING SCHEDULES, DETAILS, AND RISERS			

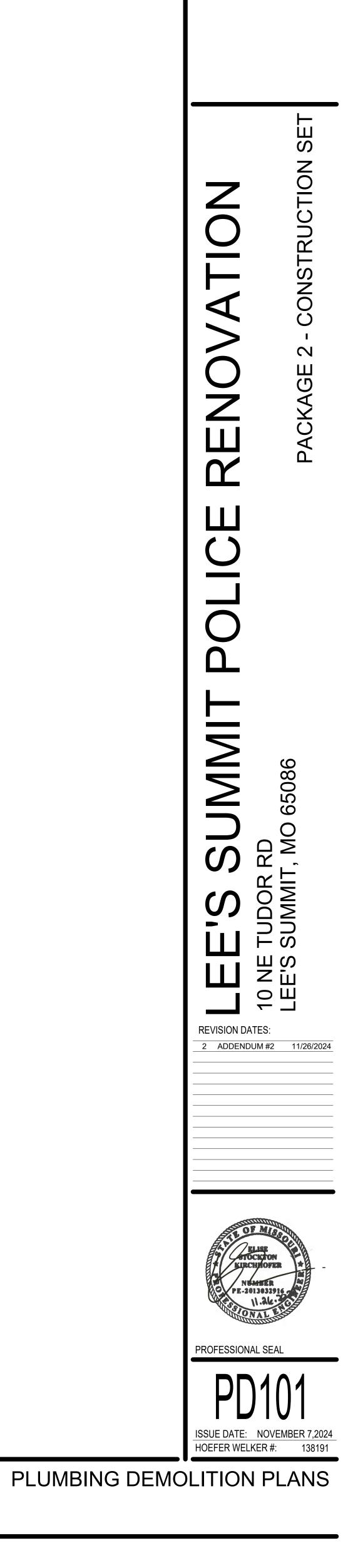


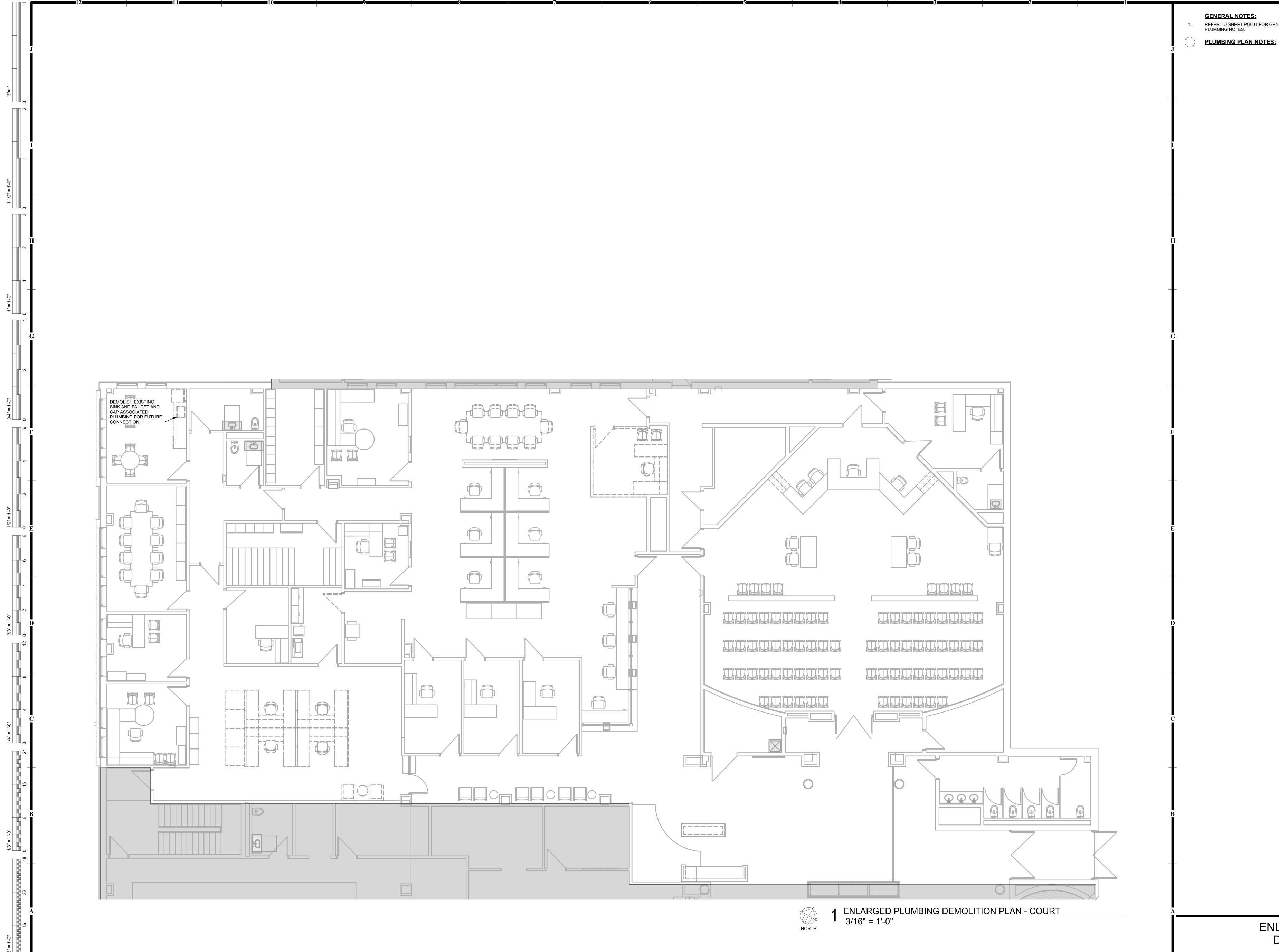


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REFER TO SHEET PG001 FOR GENERAL PLUMBING NOTES.

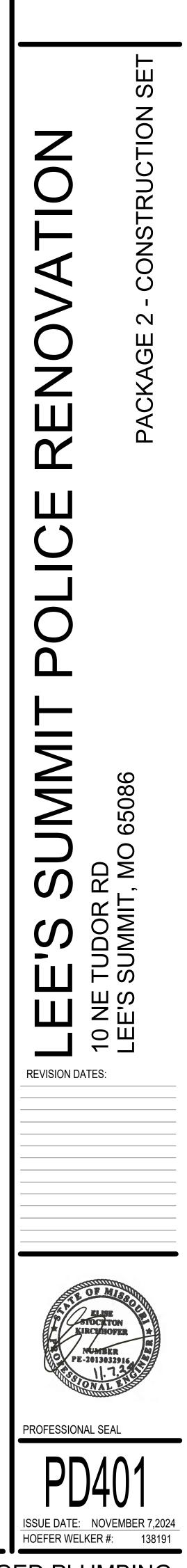




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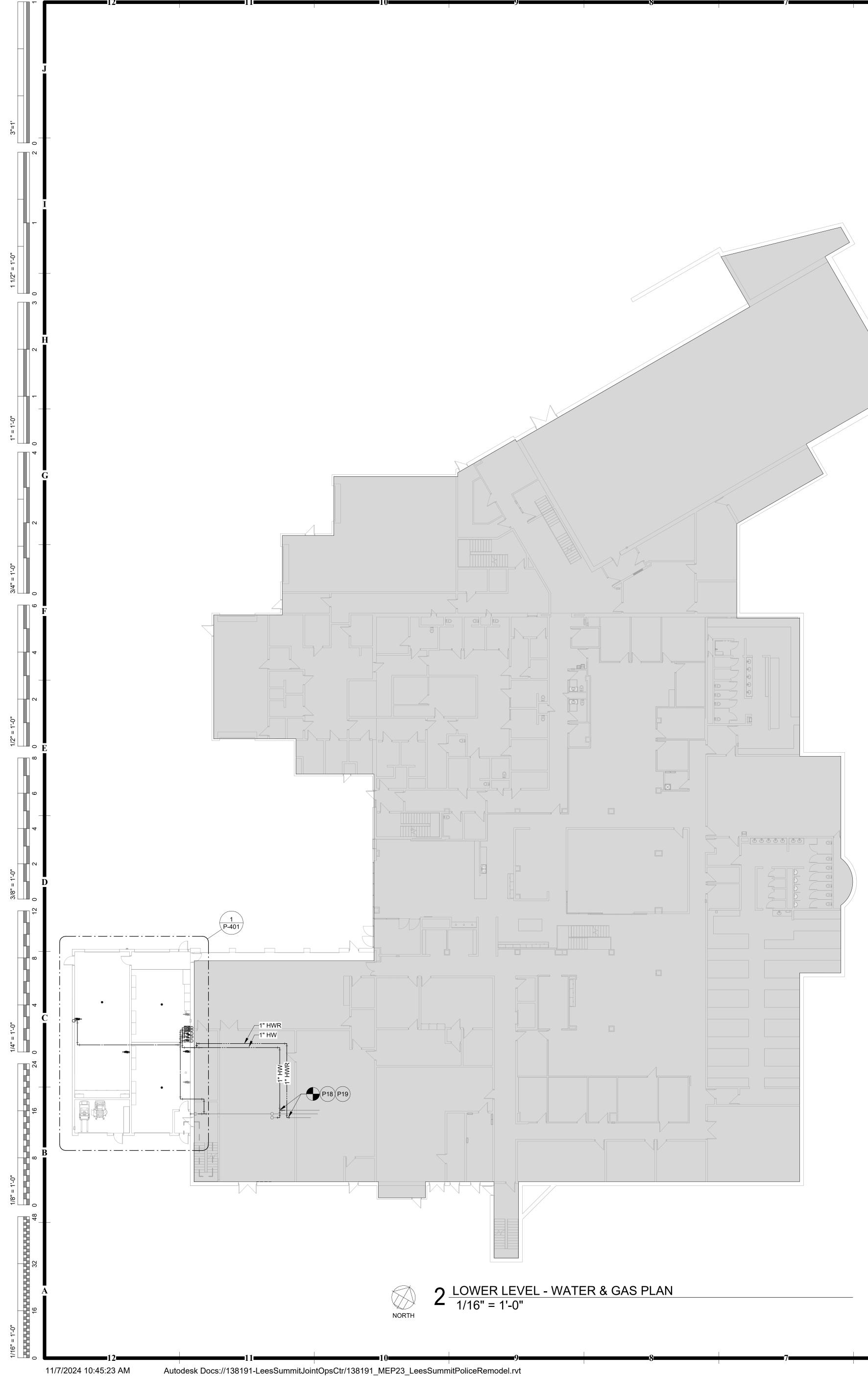
REFER TO SHEET PG001 FOR GENERAL

# HOEFER WELKER 4622 PENNSYLVANIA AVENUE SUITE 1400 KANSAS CITY, MO 64112 P: 913.307.3700 hoeferwelker.com COPYRIGHT © BY HOEFER WELKER, LLC

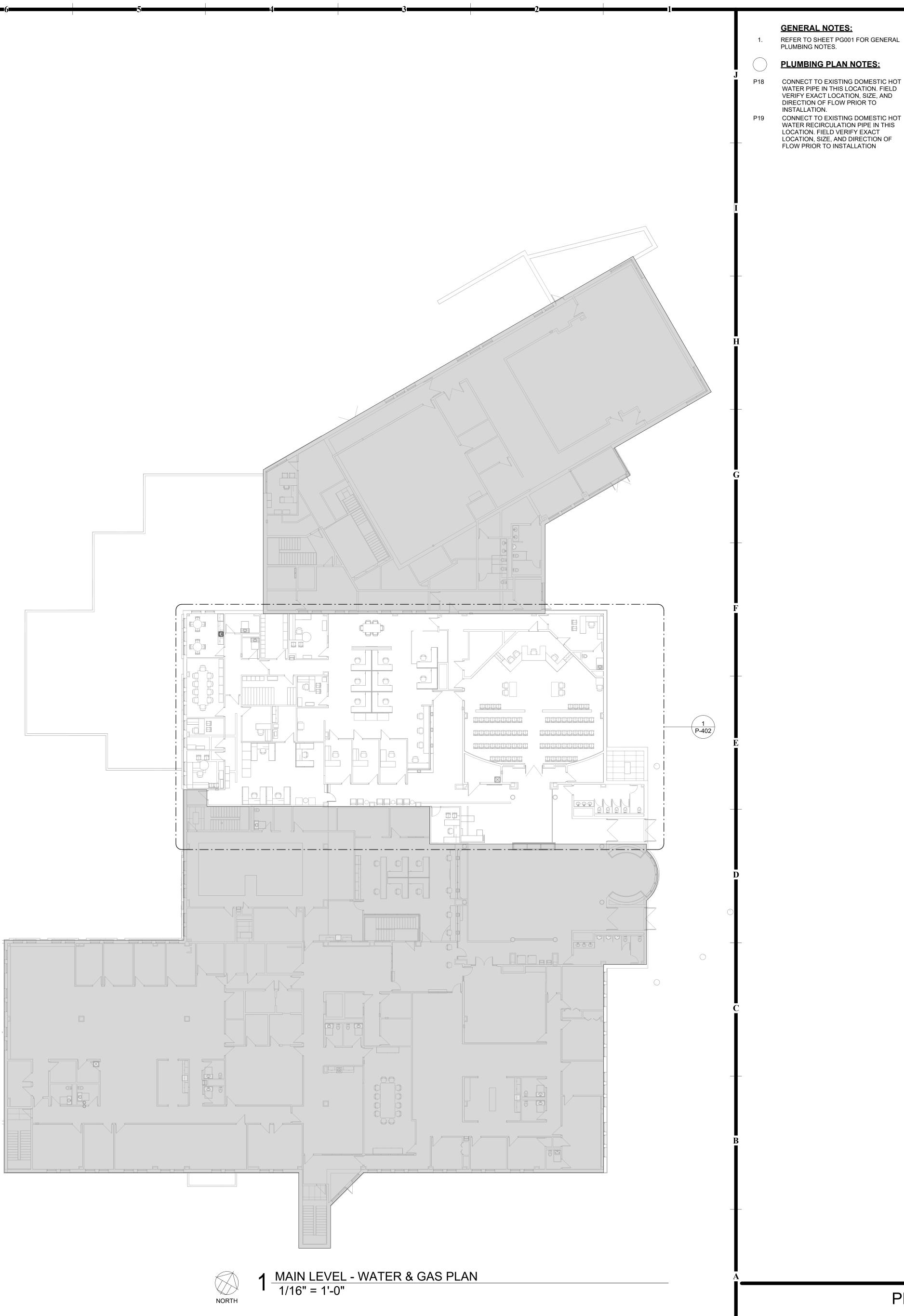


ENLARGED PLUMBING DEMOLITION PLANS

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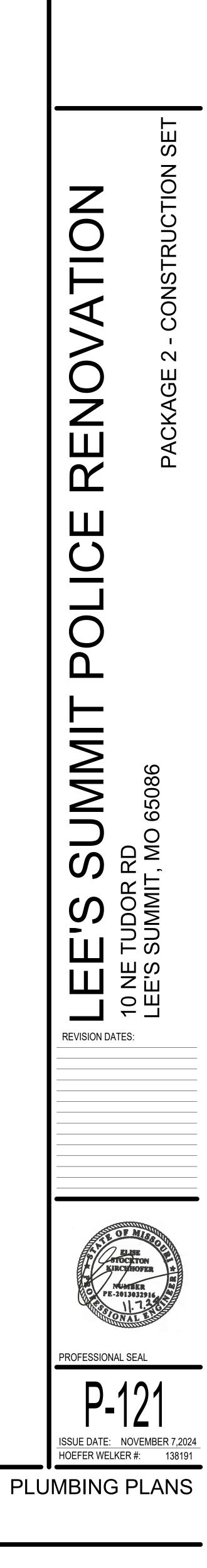


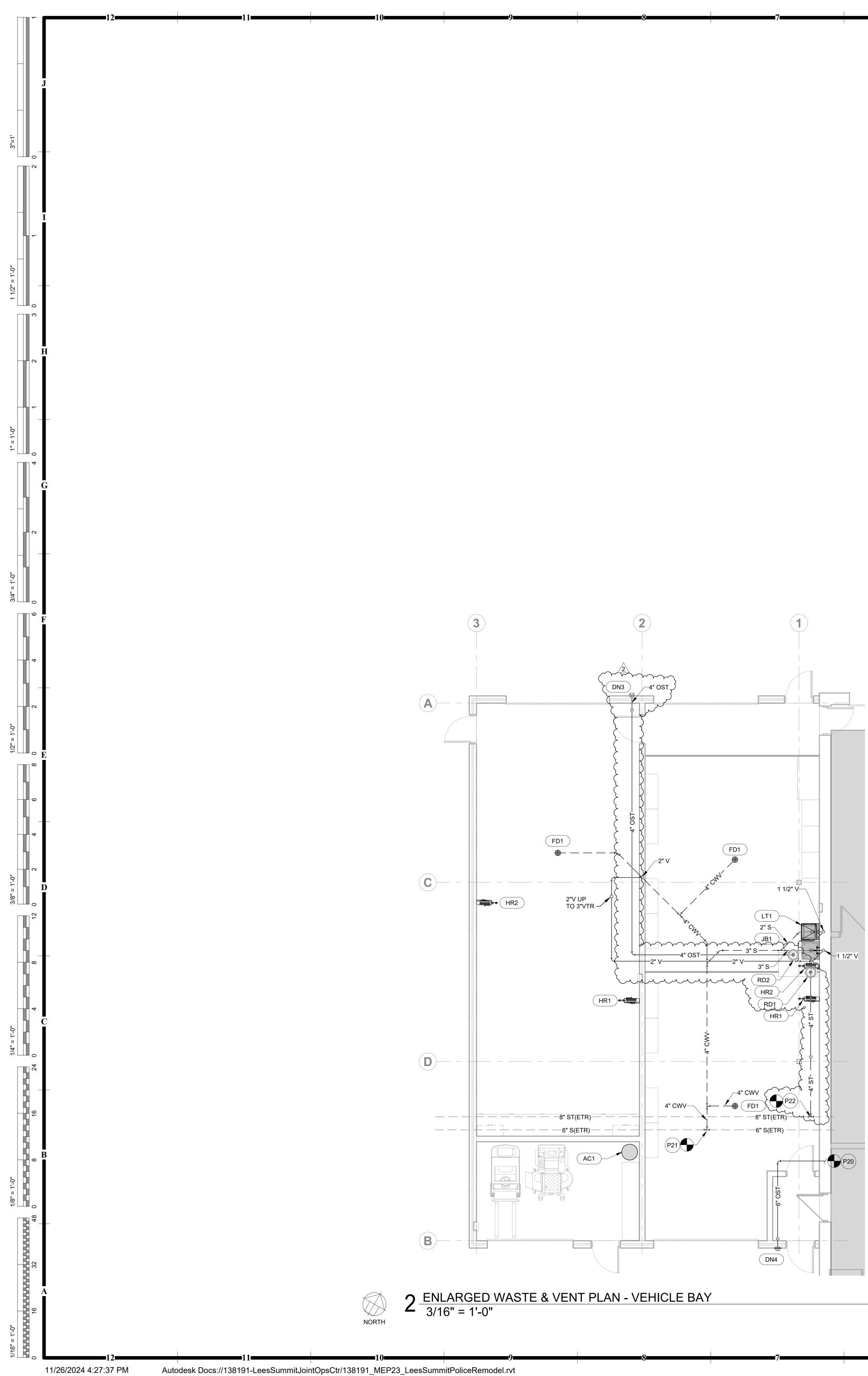


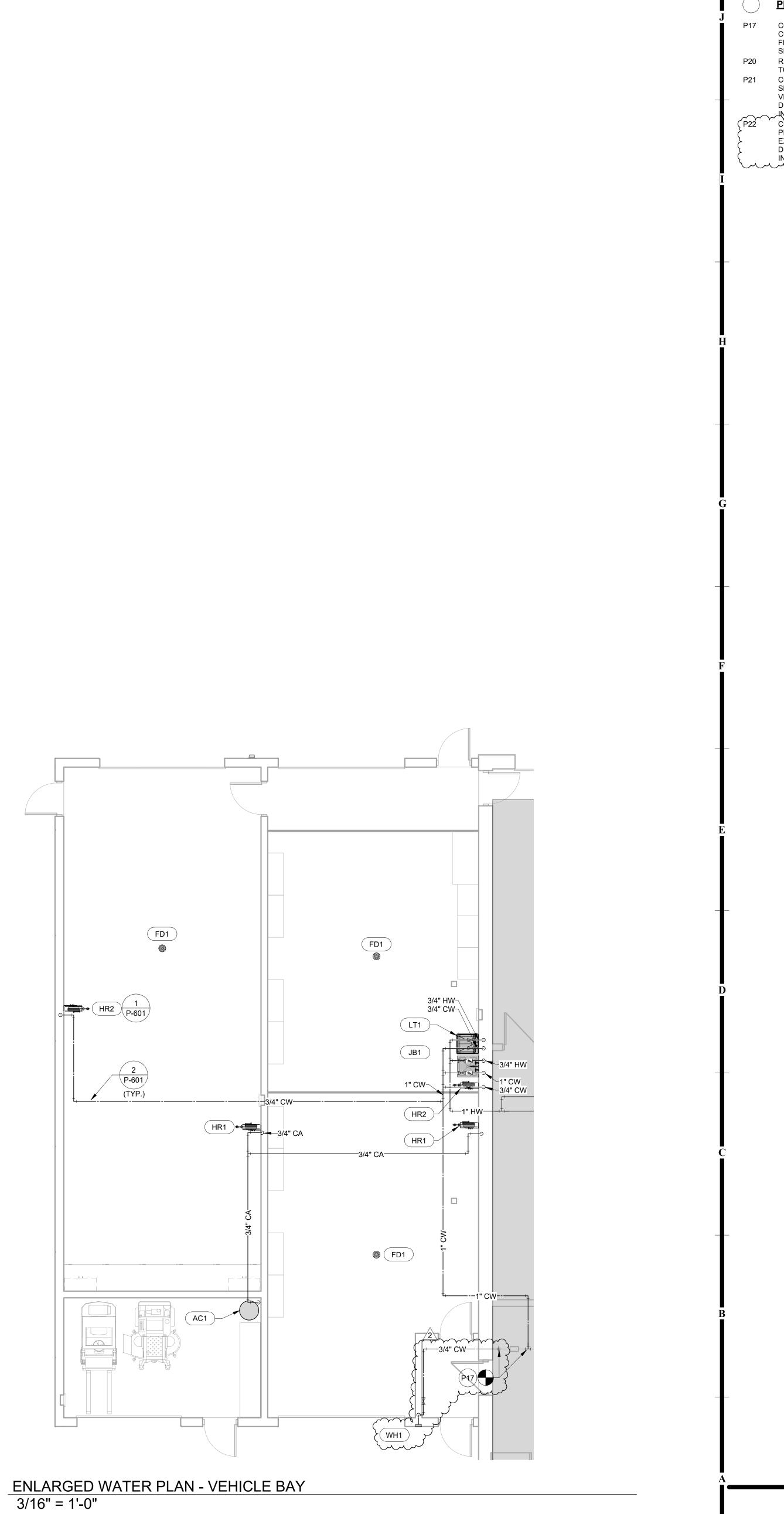


WATER PIPE IN THIS LOCATION. FIELD VERIFY EXACT LOCATION, SIZE, AND

CONNECT TO EXISTING DOMESTIC HOT WATER RECIRCULATION PIPE IN THIS

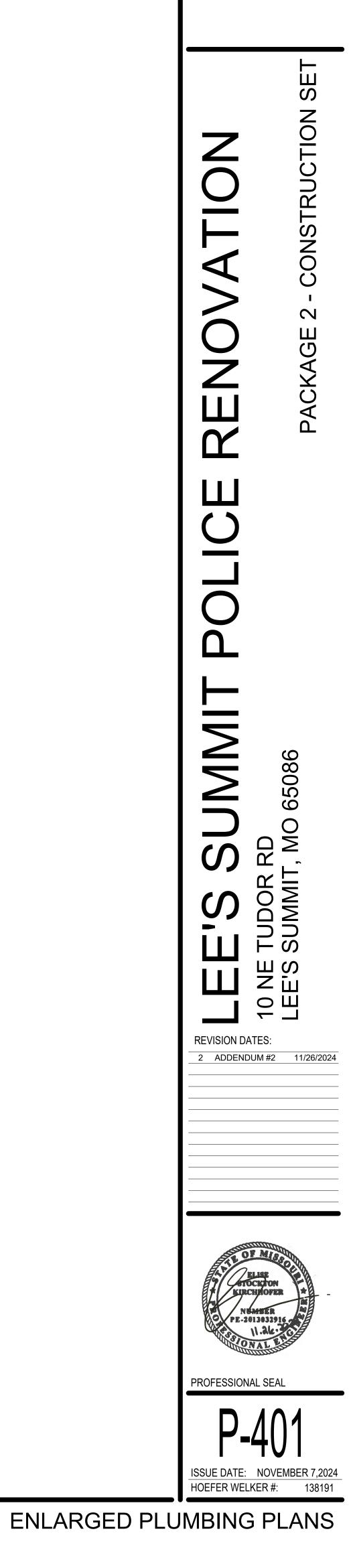


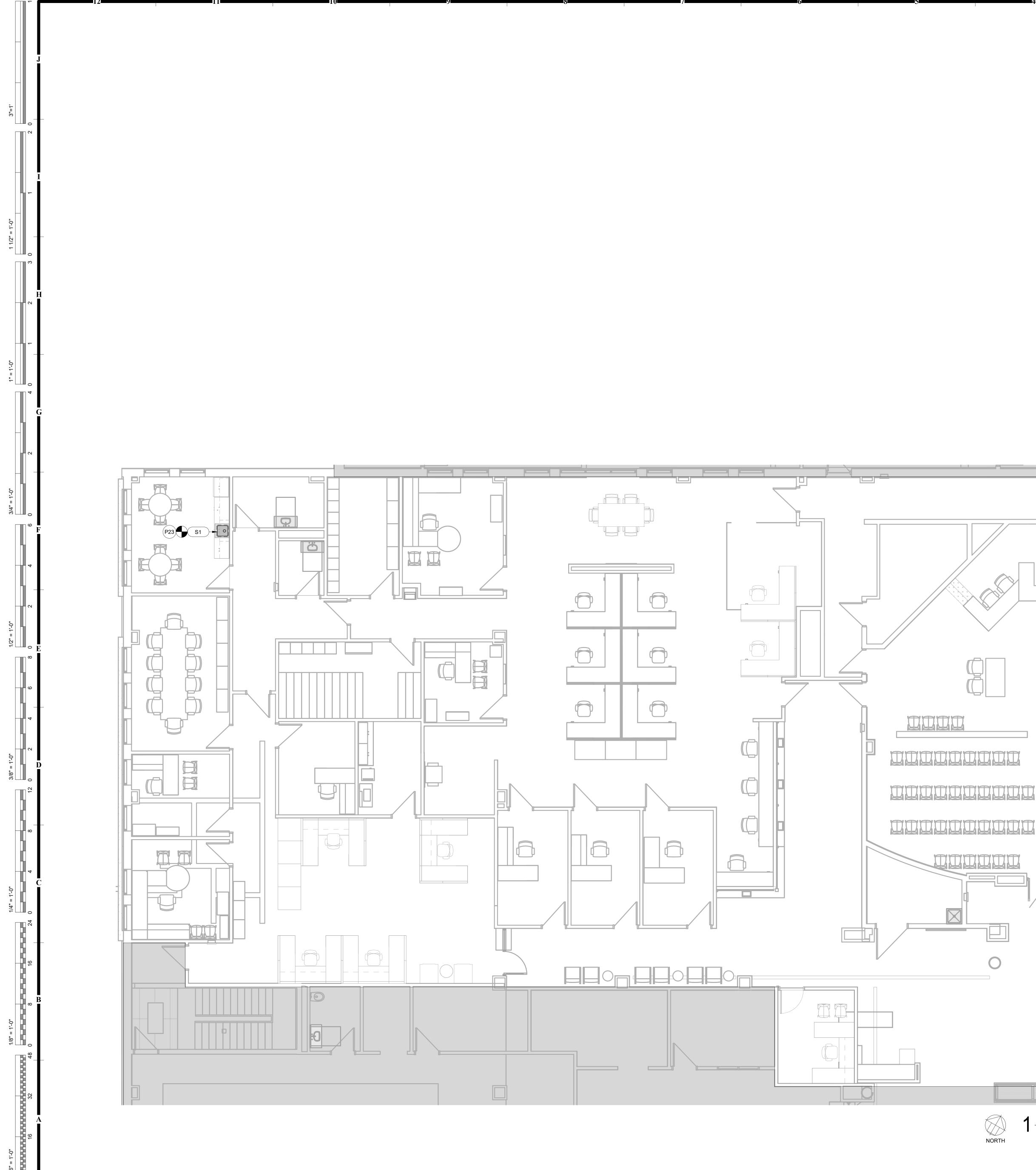




NORTH

**GENERAL NOTES:** REFER TO SHEET PG001 FOR GENERAL PLUMBING NOTES. PLUMBING PLAN NOTES: P17 CONNECT TO EXISTING DOMESTIC COLD WATER PIPE IN THIS LOCATION. FIELD VERIFY EXACT LOCATION AND SIZE PRIOR TO INSTALLATION. P20 REROUTE OVERFLOW STORM DRAIN TO LOCATION SHOWN ON PLAN. CONNECT TO EXISTING SANITARY SEWER PIPE IN THIS LOCATION. FIELD VERIFY EXACT LOCATION, SIZE, AND DIRECTION OF FLOW PRIOR TO (P22 CONNECT TO EXISTING STORM SEWER) PIPE IN THIS LOCATION. FIELD VERIFY EXACT LOCATION, SIZE, AND DIRECTION OF FLOW PRIOR TO (INSTALLATION. 2)

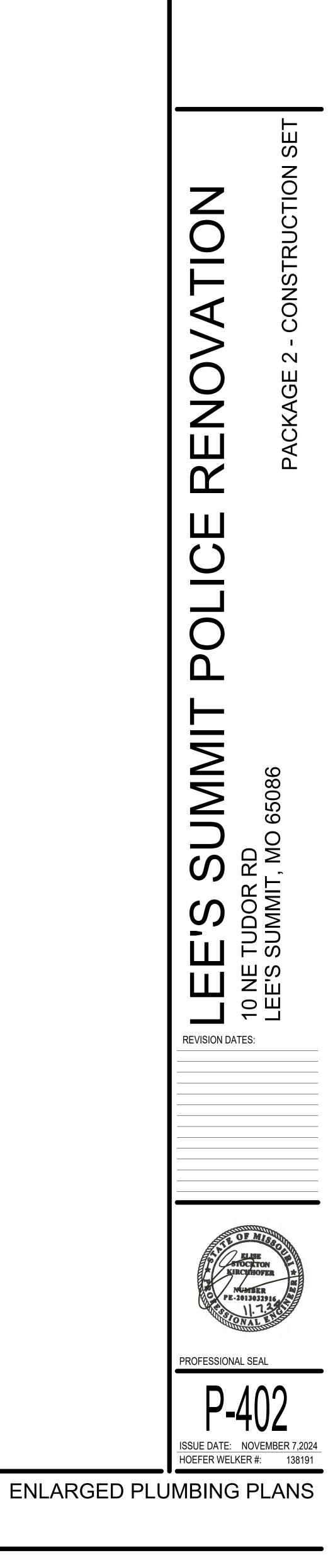


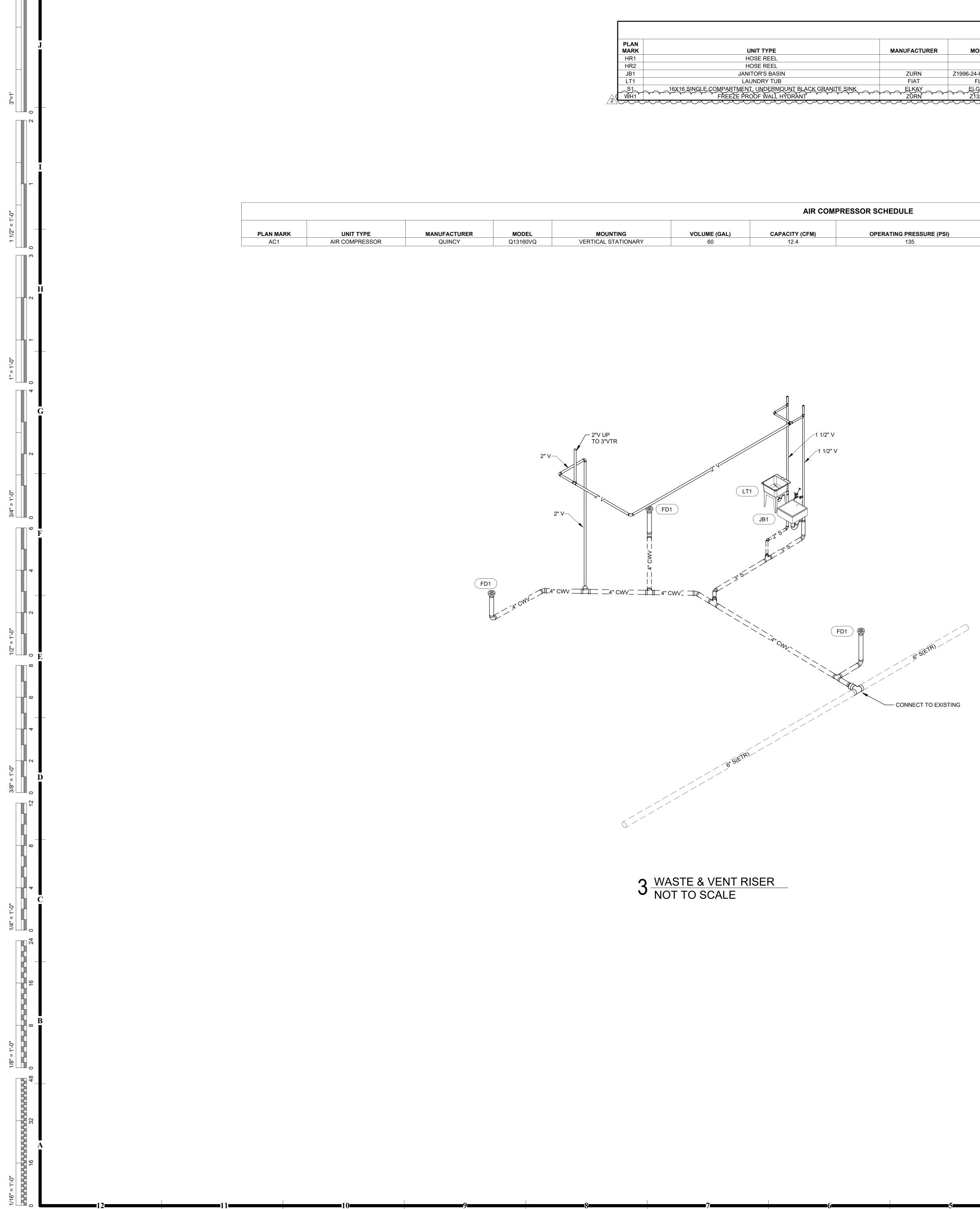


P23 REPLACE EXISTING PLUMBING Y  $\langle \rangle$ RERE ....)  $\bigcirc \bigcirc \bigcirc \bigcirc$ 0 ENLARGED PLUMBING PLAN - COURT 3/16" = 1'-0"

**GENERAL NOTES:** REFER TO SHEET PG001 FOR GENERAL PLUMBING NOTES.

PLUMBING PLAN NOTES: FIXTURE WITH NEW AS SCHEDULED. MAKE CONNECTIONS TO EXISTING SANITARY SEWER, COLD WATER, AND HOT WATER LINES. REPAIR OR REPLACE ANY SUPPLY STOPS FLANGES, OR SEALS IF NECESSARY.

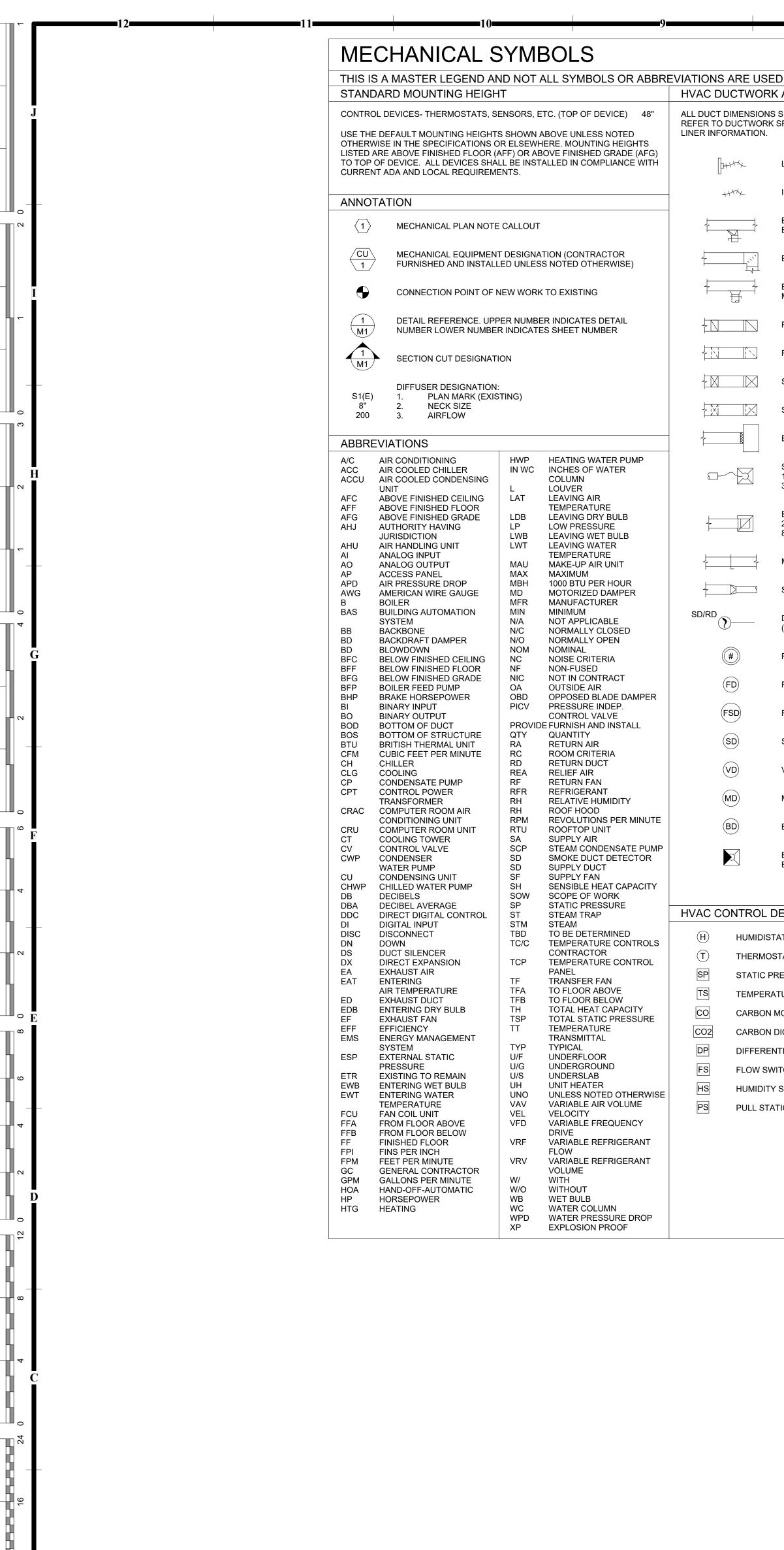




										PLUMBING ABBREVIATION
HR1 H HR2 H JB1 JAN LT1 LA S1 16X16 SINGLE COMPARTMEN WH1 FREEZE PR	JNIT TYPE IOSE REEL IOSE REEL ITOR'S BASIN UNDRY TUB I, UNDERMOUNT BLACK GRANITE S OOF WALL HYDRANT	MANUFACTURER MOD ZURN Z1996-24-H FIAT FL- SINK ELKAY ELG1 ZÚRN Z132	H-MH-WG 1 616 -C	FLUSH N ZURN M FIAT M DEL K-7505, 1.5 GP	/ALVE/FAUCET N/A N/A ODEL Z1996-SF /ODEL A1000 M_SWIVEL FLAT GOOSEN N/A		PLUMBING CONNECTION           CW         HW         WASTE           0         0         0           0         0         0           0         0         0           0         0         0           0         0         0           0.5         0.5         2           0.5         0.5         2           0.75         0         0	VENT         OPTION           0         0           1.5         1.5           1.5         0		1       THE MANUFACTURER LI         SHALL BE CONSIDERED       OF DESIGN. EQUIPMENT         ACCESSORIES SHALL BI       SUPPLIED IN ACCORDAN         THE SCHEDULED VALUE       DETAILS, AND SPECIFIC.         THE MECHANICAL CONT       SHALL BE RESPONSIBLE         ADDITIONAL COST AND       COORDINATION WHEN N         OF DESIGN EQUIPMENT       PROVIDED.
	AIR COMPR	ESSOR SCHEDULE		PLAN MARKDN3DN4FD1RD1RD2	TYPE DOWNSPOUT NOZZL DOWNSPOUT NOZZL FLOOR DRAIN - ROUI ROOF DRAIN OVERFLOW ROOF DR	MANUFA ZUI ZUI D JAY R ZUI	RN         Z199           RN         Z199           SMITH         2005A           RN         Z100	DULE OPTION CC,NBS,TG	S NOTES	OPTIONS BGD BADGER 5XP, 3/4 HP GA DISPOSAL AND 73274K O FINISH SINK TOP SWITC OPERATOR. BS BASKET STRAINER CC CAST IRON BODY AND O COLLAR I NBS 6" NICKEL BRONZE STRA SV QUARTER TURN STOP V T TRAP TG PROVENT TRAP GUARD. TMV PROVIDE WITH POWERS THERMOSTATIC MIXING SET TO 105F FOR LAVAT
<b>VOLUME (GAL)</b> DNARY 60	CAPACITY (CFM)           12.4	OPERATING PRESSURE (PSI) 135	HORSEPOWER 3.5	<b>VOLTAGE</b> 208		ICA MOCP 20 20	DIAMETER (IN) 30	HEIGHT(IN) 62	OPTIONS NOTES	AND 115F FOR SINKS
FD1 U U U U U U U U U U U U U U U U U U U	1 1/2" V 1 1/2" V 1 1/2" V 1 1/2" V	e stern connect to existing					CEILING CEILING COMPRESSED AII RISER WALL STRAP RISER TO @ 48" O.C., BUT N LESS THAN TOP, BOTTOM & CENTE 6" DIRT LEG 6" DIRT LEG 6" DIRT LEG BALL VALVE & UN HOSE REEL HOSE REEL	ATED PIPE AT TO SCALE	P OFF TOP MAIN MPRESSED MAIN	
<u>3 WASTE &amp; VENT R</u>	ISER									

PLUMBING FIXTURE SCHEDULE         NINT TYPE       MANUFACTURER       MODEL       FLUSH VALVE/FAUCET       PLUMBING CONNECTIONS         HOSE REEL       N/A       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0<
UNIT TYPE     MANUFACTURER     MODEL     FLUSH VALVE/FAUCET     PLUMBING CONNECTIONS       105E REEL     N/A     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
MANUFACTURER         MODEL         FLUSH VALVE/FAUCET         PLUMBING CONNECTIONS           N/A         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0
PLUMBING CONNECTIONS of CW         HW         WASTE         VE           N/A         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0
FLUSH VALVE/FAUCET       PLUMBING CONNECTIONS (         N/A       0       0       0       0         N/A       0       0       0       0       0         ZURN MODEL Z1996-SF       0.75       0.75       3       1         FIAT MODEL A1000       0.5       0.5       2       1         MODEL K-7505, 1.5 GPM, SWIVEL FLAT GOOSENECK FAUCET       0.5       0.5       2       1         N/A       0.75       0       0       0       0       0         MARK       TYPE       MANUFACTURER       MODEL       MODEL       2199       1         DN3       DOWNSPOUT NOZZLE       ZURN       Z199       1       9       1       199         FD1       FLOOR DRAIN - ROUND       JAY R SMITH       2005A       2       100
I VALVE/FAUCET       CW       HW       WASTE       VE         N/A       0       0       0       0       0       0       0         N/A       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0 <t< td=""></t<>
CW         HW         WASTE         VE           0         0         0         0         0           0         0         0         0         0         0           0.75         0.75         3         1.           0.5         0.5         2         1.           FAUCET         0.5         0.5         2         1.           0.75         0         0         0         0           TAUCET         0.5         0.5         2         1.           0.75         0         0         0         0           MANUFACTURER         MODEL         2         1.           ZURN         Z199         2         2           JAY R SMITH         2005A         2         1.0
CW         HW         WASTE         VE           0         0         0         0         0           0         0         0         0         0         0           0.75         0.75         3         1.         0.5         0.5         2         1.           0.5         0.5         2         1.         0.5         0.5         2         1.           0.75         0         0         0         0         0         0         0           0.75         0.5         2         1.         0.5         0.5         2         1.           0.75         0         0         0         0         0         0         0           0.75         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 <t< td=""></t<>





1/8" = 1'-0"

**□ □ □ ○** 

RE USI TWOR	K AND ACCESSORIES	PIPING SYMBOLS		PIPING LINETYPE	S
	S SHOWN ON DRAWINGS ARE INSIDE DIMENSIONS.	<b>&gt;</b>	DIRECTION OF FLOW	CD	CONDENSATE DRAIN (
CTWORI 1ATION.	K SPECIFICATIONS FOR DUCTWORK INSULATION AND	- 	CONTROL VALVE	ACD	AUXILIARY CONDENSA
			THREE-WAY CONTROL VALVE	NPW	NON-POTABLE WATER
4	LINEAR SLOT DIFFUSER		SHUTOFF VALVE	G	NATURAL GAS (G)
,	INSULATED FLEXIBLE DUCT (MAX. 5'-0" LONG)		CHECK VALVE	G	NATURAL GAS ON ROO
		——————————————————————————————————————	BALANCING VALVE WITH PRESSURE PORTS	MPG	MEDIUM PRESSURE N
	BRANCH DUCT WITH 45° RECTANGLE-ROUND BRANCH FITTING AND MANUAL VOLUME DAMPER		TRIPLE DUTY VALVE WITH PRESSURE PORTS	— — MPG— —	MEDIUM PRESSURE N
-			STRAINER	FOS	FUEL OIL SUPPLY (FOS
	ELBOW WITH TURNING VANES		STRAINER WITH BLOWDOWN VALVE	FOR	FUEL OIL RETURN (FO
	BRANCH DUCT WITH BELL-MOUTH FITTING &		RELIEF / SAFETY VALVE	FOV	, FUEL OIL VENT (FOV)
ŗ'	MANUAL VOLUME CONTROL DAMPER	Ŗ	SOLENOID VALVE	LPG	LIQUEFIED PETROLEU
	RETURN, EXHAUST, OR OUTSIDE AIR DUCT UP	Ç	PRESSURE REDUCING VALVE	BFW	BOILER FEED WATER
		¢	GAS PRESSURE REGULATOR	HPS	HIGH PRESSURE STEA
	RETURN, EXHAUST, OR OUTSIDE AIR DUCT DOWN	k	THERMOSTATIC MIXING VALVE	— — HPC— —	HIGH PRESSURE STEA
	SUPPLY AIR DUCT UP	× PA	PIPE ANCHOR	MPS	MEDIUM PRESSURE S
		EJ	EXPANSION JOINT	— — MPC— —	MEDIUM PRESSURE S
	SUPPLY AIR DUCT DOWN	<u>=</u>	PIPE GUIDE	LPS	LOW PRESSURE STEA
	EQUIPMENT WITH FLEXIBLE DUCT CONNECTION	×	PIPING SUPPORT	— —LPC— —	LOW PRESSURE STEA
		×	F & T TRAP	PD	CONDENSATE PUMP D
X	S1 (PLAN MARK) 10" (NECK SIZE)	Ø	BUCKET TRAP	HWS	HEATING HOT WATER
2N	300 CFM (CFM OF SUPPLY DIFFUSER OR REGISTER)	Ø	THERMOSTATIC TRAP	— —HWR— —	HEATING HOT WATER
	E1 (PLAN MARK)		BACKFLOW PREVENTER	CHWS	CHILLED WATER SUPF
	24x24 (NECK SIZE) 800 CFM (CFM OF EXHAUST GRILLE)	<u> </u>	PRESSURE GAUGE	— — — CHWR— —	CHILLED WATER RETU
			THERMOMETER	HCS	HOT / CHILLED WATER
	MANUAL VOLUME DAMPER	P	PRESSURE AND TEMPERATURE TEST PLUG	— —HCR— —	HOT / CHILLED WATER
3	SQUARE TO ROUND TRANSITION		UNION	CWS	CONDENSER WATER S
			FLANGE CONNECTION	CWR	CONDENSER WATER F
	DUCT MOUNTED SMOKE DETECTOR (SD=SUPPLY/RD=RETURN)	^	VACUUM RELIEF VALVE	HPWS	HEAT PUMP WATER SU
\ \		P AV	AUTOMATIC AIR VENT	— — HPWR— —	HEAT PUMP WATER RI
)	RISER DESIGNATION	↔ MV	MANUAL AIR VENT	RL	REFRIGERANT LIQUID
)	FIRE DAMPER	P	PRESSURE / VACUUM SWITCH	RD	REFRIGERANT DISCHA
)			CLEANOUT	RS	REFRIGERANT SUCTIO
))	FIRE SMOKE DAMPER		CAP	RDB	REFRIGERANT DISCHA
)	SMOKE DAMPER	+0	ELBOW UP	RV	REFRIGERANT VENT (I
			ELBOW DOWN		
)	VOLUME DAMPER	+O+	TEE UP		
)	MOTORIZED DAMPER		TEE DOWN		
1		Q+	ELBOW UP WITH SHUT-OFF VALVE (SOV)		
)	BACKDRAFT DAMPER	5	ELBOW DOWN WITH SHUT-OFF VALVE (SOV)		
1	BLANKED OFF DIFFUSER (SHADED SECTION IS	+ō+	TEE UP WITH SHUT-OFF VALVE (SOV)		
	BLANKED OFF)		TEE DOWN WITH SHUT-OFF VALVE (SOV)		
		D	REDUCER		
TROL	DEVICES	®	RECIRCULATION PUMP		
HUMIDIS	STAT		P-TRAP		
THERMO	DSTAT		GAS COCK		
STATIC I	PRESSURE SENSOR		TOP BEAM CLAMP		
TEMPER	ATURE SENSOR	<i>++++</i>	TRAPEZE HANGER		
	I MONOXIDE SENSOR				
	I DIOXIDE SENSOR				
	ENTIAL PRESSURE SENSOR			LINETYPE LEGEND	
-LOW S					AWINGS DIFFERENT LIN
	Y SENSOR			EXISTING, TO BE DEMO	DLISHED, TO BE INCLUDE ARE ANTICIPATED TO BE
PULL ST				THE STATUS OF ITEMS	SUSING THESE LINETYPE
				INTENDED TO FULLY D	ESCRIBE ALL NECESSAF
				RESPONSIBILITIES. AN	Y SUCH PHASES DESCR
		1			

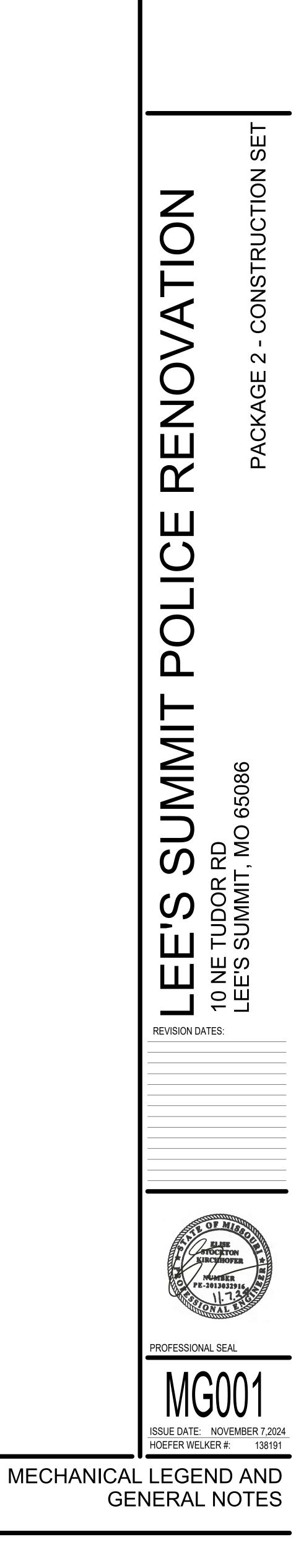
PING LINETYF	2ES
	- CONDENSATE DRAIN (CD)
	- AUXILIARY CONDENSATE DRAIN (ACD)
NPW	
G	
	<ul> <li>NATURAL GAS ON ROOF (G)</li> <li>MEDIUM PRESSURE NATURAL GAS (MPG)</li> </ul>
	<ul> <li>MEDIUM PRESSURE NATURAL GAS (MPG)</li> <li>MEDIUM PRESSURE NATURAL GAS ON ROOF (MGP)</li> </ul>
FOS	
FOR	
	<ul> <li>FUEL OIL VENT (FOV)</li> </ul>
	- LIQUEFIED PETROLEUM GAS (LPG)
BFW	
HPS	- HIGH PRESSURE STEAM SUPPLY (HPS)
— —HPC— —	HIGH PRESSURE STEAM CONDENSATE (HPC)
MPS	<ul> <li>MEDIUM PRESSURE STEAM SUPPLY (MPS)</li> </ul>
— —MPC— —	MEDIUM PRESSURE STEAM CONDENSATE (MPC)
LPS	- LOW PRESSURE STEAM SUPPLY (LPS)
— —LPC— —	- LOW PRESSURE STEAM CONDENSATE (LPC)
PD	- CONDENSATE PUMP DISCHARGE (PD)
HWS	- HEATING HOT WATER SUPPLY (HWS)
— —HWR— —	- HEATING HOT WATER RETURN (HWR)
CHWS	
— —CHWR— —	
HCS	<ul> <li>HOT / CHILLED WATER SUPPLY (HCS)</li> </ul>
— —HCR— —	
CWS	
CWR	
HPWS-	
	- HEAT PUMP WATER RETURN (HPWR)
RL	
RD	
RDB	
	<ul> <li>REFRIGERANT VENT (RV)</li> </ul>
TYPE LEGEND	
COUGHOUT THE I MBINATION WITH STING, TO BE DE O/OR ITEMS WHIC STATUS OF ITE W IN WHICH THE ENDED TO FULLY CH IS DETERMIN SPONSIBILITIES. CUMENTS ARE G DER FOR THE SA	DRAWINGS DIFFERENT LINETYPES ARE USED IN THE SYMBOLS TO INDICATE THE STATUS OF ITEMS AS MOLISHED, TO BE INCLUDED AS PART OF NEW WORK CH ARE ANTICIPATED TO BE PROVIDED IN THE FUTURE. MS USING THESE LINETYPES ARE RELATIVE TO THE Y APPEAR. PHASING SHOWN IN DRAWINGS IS NOT Y DESCRIBE ALL NECESSARY CONSTRUCTION PHASING, NED BY THE CONTRACTOR AS PART OF THEIR ANY SUCH PHASES DESCRIBED IN THE CONSTRUCTION ENERAL AND ONLY INTENDED TO INDICATE A BROAD IKE OF DESCRIBING THE PROJECT. THE FOLLOWING USED ON ANY DEVICE, EQUIPMENT, NOTE, LINE, SHAPE,
OUGHOUT THE MBINATION WITH STING, TO BE DE O/OR ITEMS WHIC STATUS OF ITE N IN WHICH THE ENDED TO FULLY CH IS DETERMIN PONSIBILITIES. CUMENTS ARE G DER FOR THE SA ETYPES MAY BE	THE SYMBOLS TO INDICATE THE STATUS OF ITEMS AS MOLISHED, TO BE INCLUDED AS PART OF NEW WORK CH ARE ANTICIPATED TO BE PROVIDED IN THE FUTURE. MS USING THESE LINETYPES ARE RELATIVE TO THE Y APPEAR. PHASING SHOWN IN DRAWINGS IS NOT Y DESCRIBE ALL NECESSARY CONSTRUCTION PHASING, NED BY THE CONTRACTOR AS PART OF THEIR ANY SUCH PHASES DESCRIBED IN THE CONSTRUCTION ENERAL AND ONLY INTENDED TO INDICATE A BROAD JKE OF DESCRIBING THE PROJECT. THE FOLLOWING

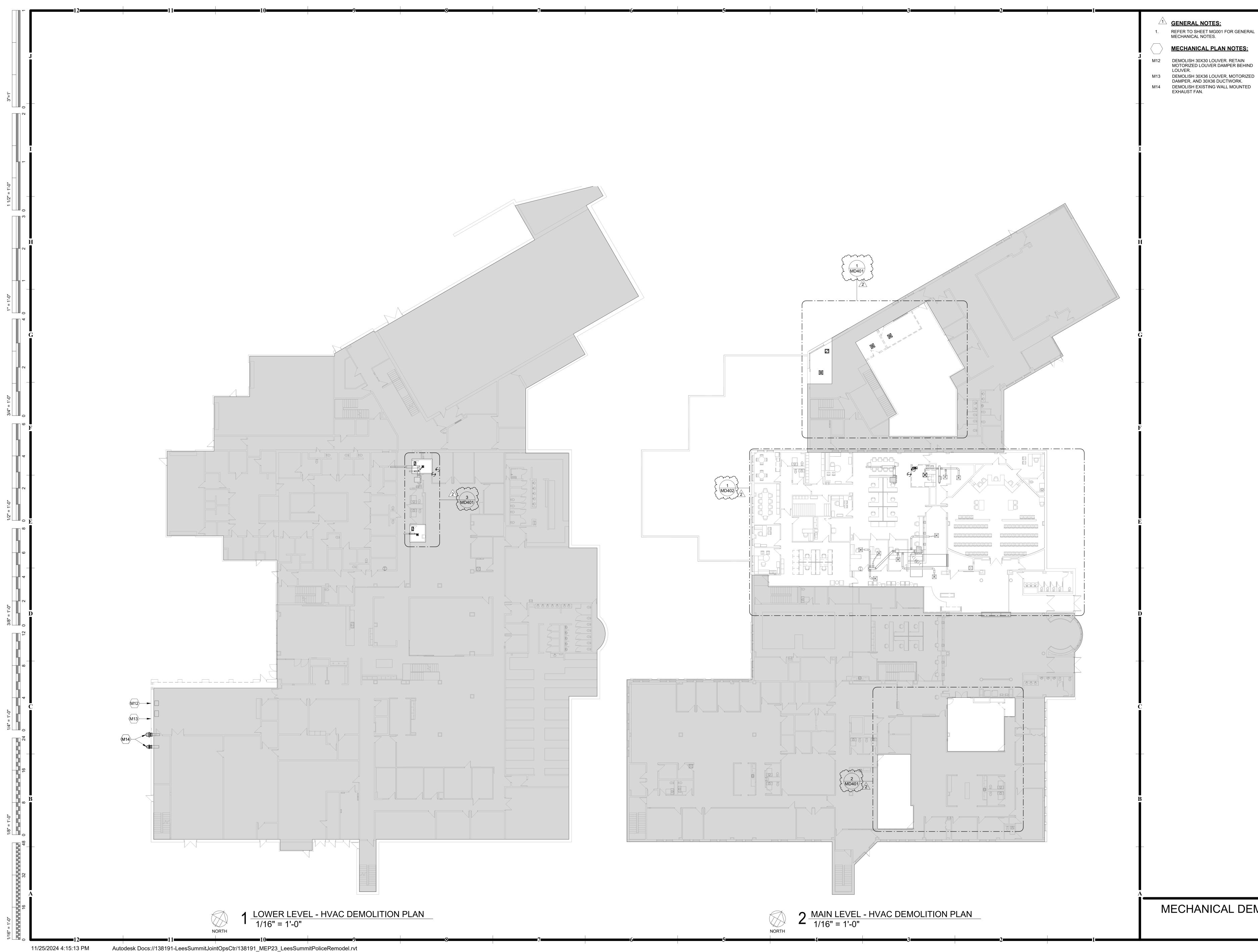
# **GENERAL MECHANICAL NOTES:**

7

- PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS OF THE PROJECT. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND OTHER DRAWINGS FOR ADDITIONAL REQUIREMENTS WHICH MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT, ENGINEER AND/OR OWNER OF CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
- COORDINATE THE INSTALLATION OF THE MECHANICAL SYSTEMS WITH OTHER TRADES TO ENSURE A NEAT AND ORDERLY INSTALLATION. INSTALL DUCTWORK AND PIPING AS TIGHT TO STRUCTURE AS POSSIBLE. COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS. COORDINATE INSTALLATION OF DUCTWORK AND PIPING TO AVOID CONFLICTS WITH ELECTRICAL PANELS, LIGHTING FIXTURES, ETC. ANY MODIFICATIONS REQUIRED DUE TO LACK OF COORDINATION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO EXTRA COST TO THE OWNER.
- PROVIDE TEMPORARY BARRIERS TO CONTAIN DUST AND DEBRIS RESULTING FROM THE PERFORMANCE OF THE WORK TO THE AREA WHERE WORK IS BEING PERFORMED.
- ALL MECHANICAL EQUIPMENT SHOWN ON THE MECHANICAL PLANS SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR UNLESS OTHERWISE NOTED.
- NEW MECHANICAL EQUIPMENT, DUCTWORK AND PIPING ARE SHOWN AT APPROXIMATE LOCATIONS. FIELD MEASURE FINAL DUCTWORK AND PIPING LOCATIONS PRIOR TO FABRICATION AND MAKE ADJUSTMENTS AS REQUIRED TO FIT THE DUCTWORK AND PIPING WITHIN THE AVAILABLE SPACE. VERIFY THAT FINAL EQUIPMENT LOCATIONS MEET MANUFACTURER'S RECOMMENDATIONS REGARDING SERVICE CLEARANCE AND PROPER AIRFLOW CLEARANCE AROUND EQUIPMENT.
- REFER TO ARCHITECTURAL DRAWINGS FOR RELATED CONSTRUCTION DETAILS AS APPLICABLE TO THE HVAC SYSTEM. VERIFY CHASES AND PENETRATIONS SHOWN ON ARCHITECTURAL DRAWINGS THAT ARE INTENDED FOR DUCTWORK AND PIPING MEET REQUIREMENTS.
- COORDINATE LOCATION OF ROOF MOUNTED HVAC EQUIPMENT AND ROOF PENETRATIONS WITH THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- INDOOR AIR QUALITY MEASURES: PROTECT INSIDE OF (INSTALLED AND DELIVERED) DUCTWORK AND HVAC UNITS FROM EXPOSURE TO DUST, DIRT, PAINT AND MOISTURE. REPLACE INSULATION THAT HAS GOTTEN WET AT ANY TIME DURING CONSTRUCTION, DRYING THE INSULATION IS NOT ACCEPTABLE. SEAL ANY TEARS OR JOINTS OF INTERNAL FIBERGLASS INSULATION. REMOVE DEBRIS FROM CEILING/RETURN AIR PLENUM INCLUDING DUST. PROVIDE FILTERS OVER ANY RETURN OR TRANSFER OPENINGS DURING CONSTRUCTION.
- WHERE HVAC SYSTEMS ARE REQUIRED TO STAY OPERATIONAL TO SERVE OTHER AREAS OF THE BUILDING, PLACE FILTER MEDIA OVER ALL SUPPLY AND RETURN AIR OPENINGS, TRANSFER DUCTS AND FIRE/SMOKE DAMPERS.
- INSTALL DUCTWORK AND PIPING PARALLEL TO BUILDING COLUMN LINES UNLESS OTHERWISE SHOWN OR NOTED. OVERHEAD HANGERS AND SUPPORTS FOR EQUIPMENT, DUCTWORK AND PIPING SHALL BE 11
- FASTENED TO BUILDING JOISTS OR BEAMS. DO NOT ATTACH HANGERS AND SUPPORTS TO THE ABOVE FLOOR SLAB OR ROOF EXCEPT WHERE CONCRETE INSERTS IN CONCRETE SLABS ARE ALLOWED BY THE SPECIFICATIONS.
- 12. COORDINATE LOCATION OF EQUIPMENT SUPPORTS WITH LOCATION OF EQUIPMENT ACCESS PANELS/DOORS TO ENABLE SERVICE OF EQUIPMENT AND/OR FILTER REPLACEMENT.
- 13. SEAL PENETRATIONS THROUGH THE BUILDING COMPONENTS IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS. FIREPROOF PENETRATIONS THROUGH FIRE RATED COMPONENTS IN ACCORDANCE WITH U.L. REQUIREMENTS.
- FOR HYDRONIC, PIPING TO EQUIPMENT, MINIMUM ACCEPTABLE SIZE FOR STEEL AND COPPER PIPE IS 3/4 INCH. USE THIS CRITERIA WHERE PIPE SIZES ARE NOT SHOWN ON PLAN. CONTRACTOR SHALL DRAIN, FLUSH, AND REFILL ALL PIPING SYSTEMS NECESSARY TO PERFORM
- THE WORK. REFERENCE SPECIFICATIONS FOR FLUSHING PERFORMANCE REQUIREMENTS AND SUBMIT FLUSHING PLAN TO ENGINEER FOR REVIEW. PROVIDE CHEMICAL TREATMENT FOR ALL PIPING SYSTEMS AFTER FLUSHING AND REFILLING THE SYSTEM. COORDINATE THE EXACT MOUNTING SIZE AND FRAME TYPE OF DIFFUSERS, REGISTERS AND
- GRILLES WITH THE SUPPLIER TO MEET THE CEILING, WALL AND DUCT INSTALLATION REQUIREMENTS.
- ADJUST LOCATION OF CEILING DIFFUSERS, REGISTERS AND GRILLES AS REQUIRED TO ACCOMMODATE FINAL CEILING GRID AND LIGHTING LOCATIONS.
- 18. DUCTWORK CROSSING FIRE RATED WALLS OR OTHER FIRE RATED ASSEMBLIES SHALL BE MINIMUM 26 GAUGE SHEET METAL.
- 19. PROVIDE FIRE OR FIRE/SMOKE DAMPERS, AS APPLICABLE, IN DUCTWORK AT CEILINGS AND WALLS AT LOCATIONS SHOWN ON THE PLANS. FIRE AND FIRE/SMOKE DAMPERS SHALL CONFORM TO NFPA AS APPLICABLE. COORDINATE SLEEVE LENGTH WITH REQUIREMENTS OF INSTALLED LOCATION.
- PROVIDE WALL OR DUCT ACCESS PANELS OR DOORS FOR ACCESS TO FIRE AND FIRE/SMOKE 20 DAMPERS. ACCESS PANEL OR DOOR SHALL BE MINIMUM SIZE OF 10" BY 10" AND SHALL BE INSTALLED WITHIN 12" OF DAMPER. PROVIDE A REMOVABLE DUCT SECTION WHERE DUCT SIZE IS TOO SMALL FOR A 10" BY 10" ACCESS DOOR.
- LOCATE AND SET THERMOSTATS AND HUMIDISTATS AT LOCATIONS SHOWN ON PLANS. VERIFY EXACT LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION. INSTALL DEVICES WITH TOP OF DEVICE AT MAXIMUM 48" AFF TO MEET ADA REQUIREMENTS UNLESS NOTED OTHERWISE ON PLANS. PROVIDE INSULATED BACKING FOR THERMOSTATS MOUNTED ON EXTERIOR BUILDING WALLS. INSTALL WIRING IN CONDUIT PROVIDED BY DIVISION 26. AT A MINIMUM, PROVIDE CONDUIT IN THE WALL FROM THE JUNCTION BOX TO 6" ABOVE THE CEILING.
- COORDINATE THE LOCATION AND ELEVATION OF WALL-MOUNTED DEVICES WITH PRESENTATION 22. BOARDS, DISPLAY CABINETS, SHELVES OR OTHER COMPONENTS SHOWN ON THE ARCHITECTURAL DRAWINGS THAT ARE TO BE INSTALLED UNDER OTHER DIVISIONS. CONTRACTOR WILL NOT BE REIMBURSED FOR RELOCATION OF WALL-MOUNTED DEVICES CAUSED BY A LACK OF COORDINATION.
- PROVIDE A MANUAL BALANCING DAMPER IN EACH BRANCH DUCT TAKEOFF FROM MAIN SUPPLY, 23. RETURN, OUTDOOR AND EXHAUST AIR DUCTS. PROVIDE A PREFABRICATED 45 DEGREE, HIGH EFFICIENCY, RECTANGULAR/ROUND BRANCH DUCT 24
- TAKEOFF FITTING WITH MANUAL BALANCING DAMPER AND LOCKING QUADRANT FOR BRANCH DUCT CONNECTIONS AND TAKE-OFFS TO INDIVIDUAL DIFFUSERS, REGISTERS AND GRILLES. 25. BRANCH DUCTWORK TO AIR OUTLETS SHALL BE SAME SIZE AS OUTLET NECK SIZE UNLESS
- OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR DUCTWORK AND PIPING INSULATION REQUIREMENTS. DUCT 26. SIZES ON MECHANICAL PLANS INDICATE CLEAR INSIDE AIRFLOW DIMENSIONS, INCREASE SHEET METAL SIZES ACCORDINGLY TO ACCOUNT FOR THICKNESS OF DUCT LINER.
- FLEXIBLE DUCTWORK SHALL NOT EXCEED 5'-0" IN LENGTH AND SHALL BE INSTALLED AND SUPPORTED TO AVOID SHARP BENDS AND SAGGING. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- RIGIDLY SUSPEND UNIT HEATER FROM STRUCTURE WITH SUPPORTING ANGLES AND ALL-THREAD HANGING RODS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE WALL MOUNTED LOUVERS AND DAMPERS WITH SUITABLE MOUNTING FRAME TO MATCH WALL CONSTRUCTION. COORDINATE WITH ARCHITECTURAL DRAWINGS.
- PROVIDE A NEW SET OF AIR FILTERS IN UNITS PRIOR TO TESTING, ADJUSTING AND BALANCING AND BEFORE TURNING SYSTEM(S) OVER TO OWNER.

	MECHANICAL SHEET INDEX
SHEET NUMBER	SHEET NAME
MG001	MECHANICAL LEGEND AND GENERAL NOTES
MD101	MECHANICAL DEMOLITION PLANS
MD401	ENLARGED HVAC DEMOLITION PLANS
MD402	ENALRGED HVAC DEMOLITION PLANS
M-101	MECHANICAL FLOOR PLANS
M-401	ENLARGED HVAC FLOOR PLANS
M-402	ENLARGED HVAC FLOOR PLANS
M-501	MECHANICAL DETAILS
M-601	MECHANICAL SCHEDULES

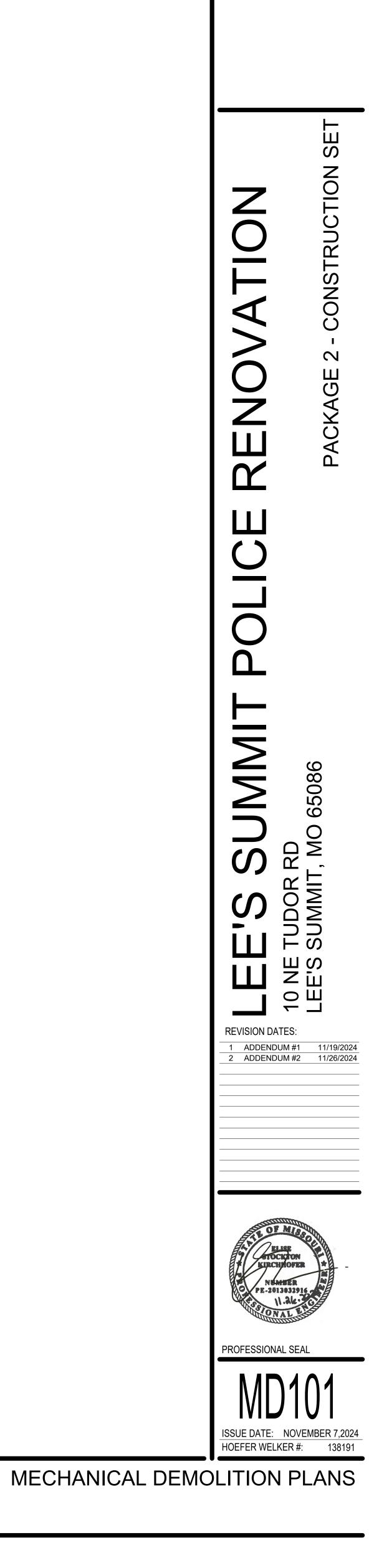


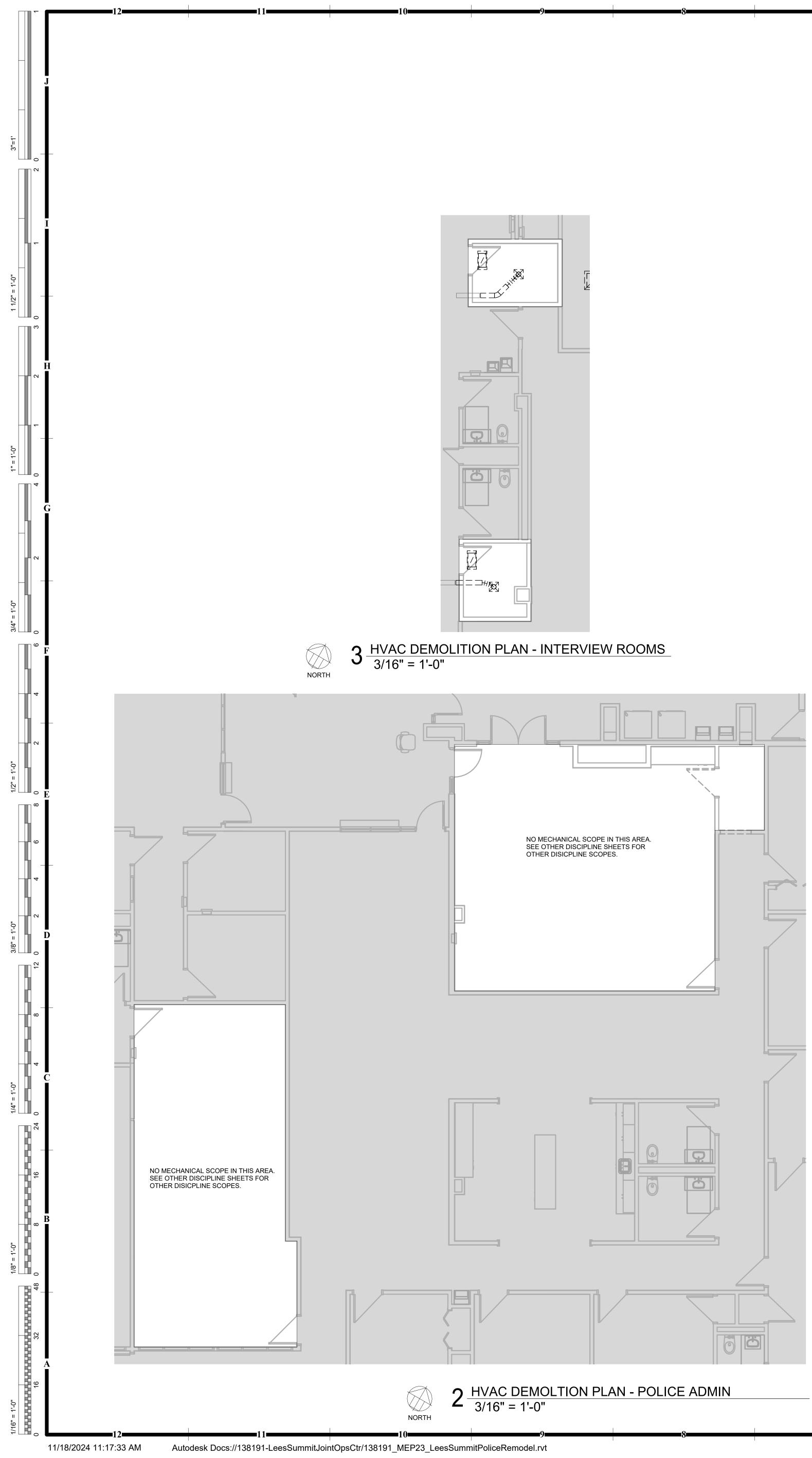


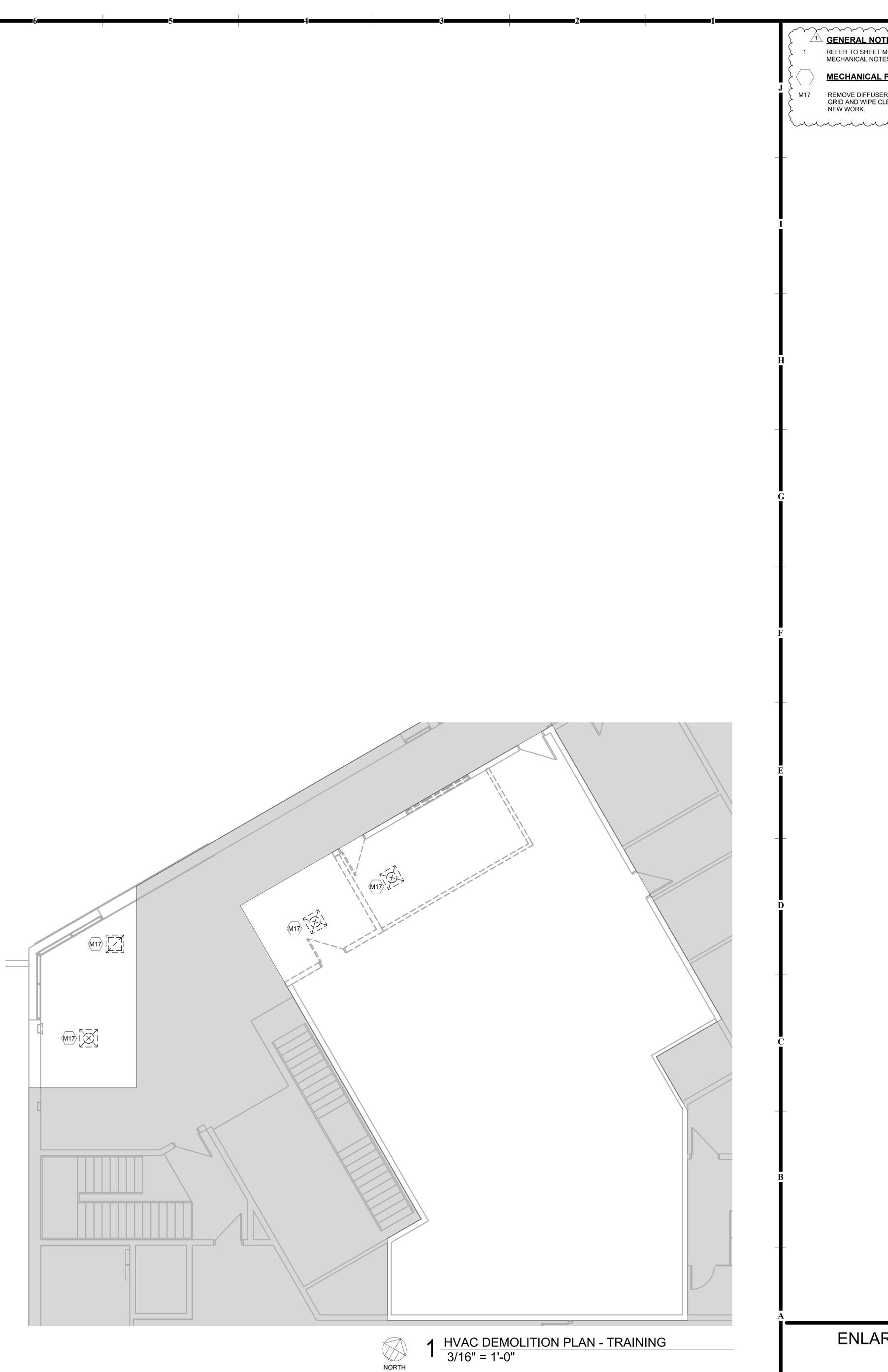
REFER TO SHEET MG001 FOR GENERAL MECHANICAL NOTES.

MECHANICAL PLAN NOTES:

DAMPER, AND 30X36 DUCTWORK.

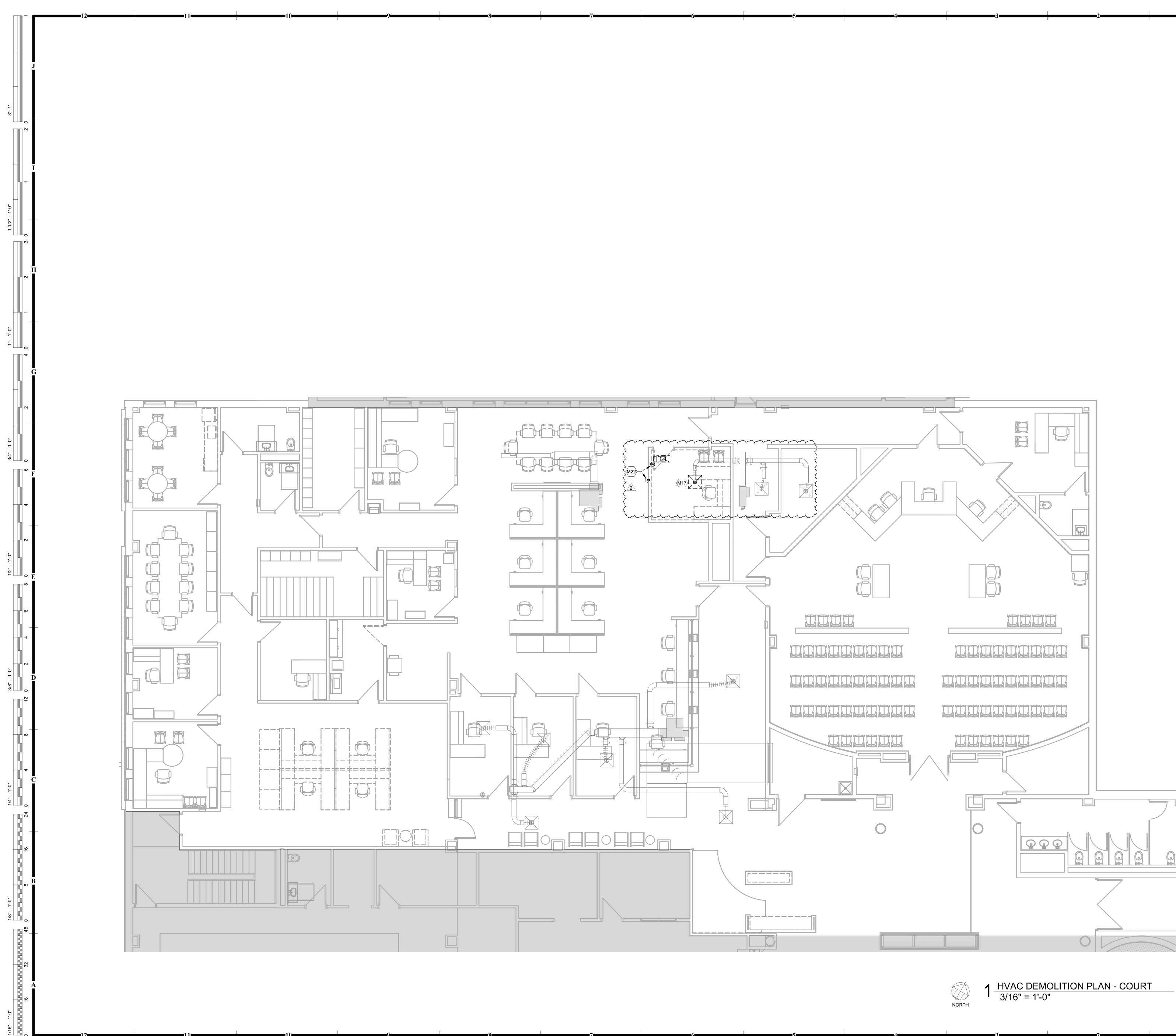






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TES:	ہ ۲
MG001 FOR GENERAL	3
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PLAN NOTES:	ź
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GENERAL NOTES: REFER TO SHEET MG001 FOR GENERAL MECHANICAL NOTES. **MECHANICAL PLAN NOTES:** REMOVE DIFFUSER FROM CEILING GRID AND WIPE CLEAN. SAVE FOR

M17

2 { M22

NEW WORK.

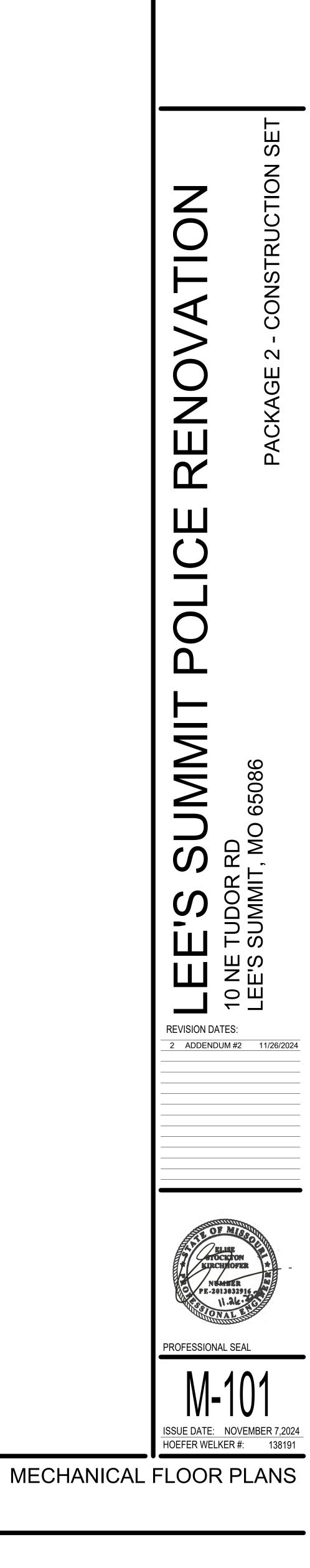
WORK.

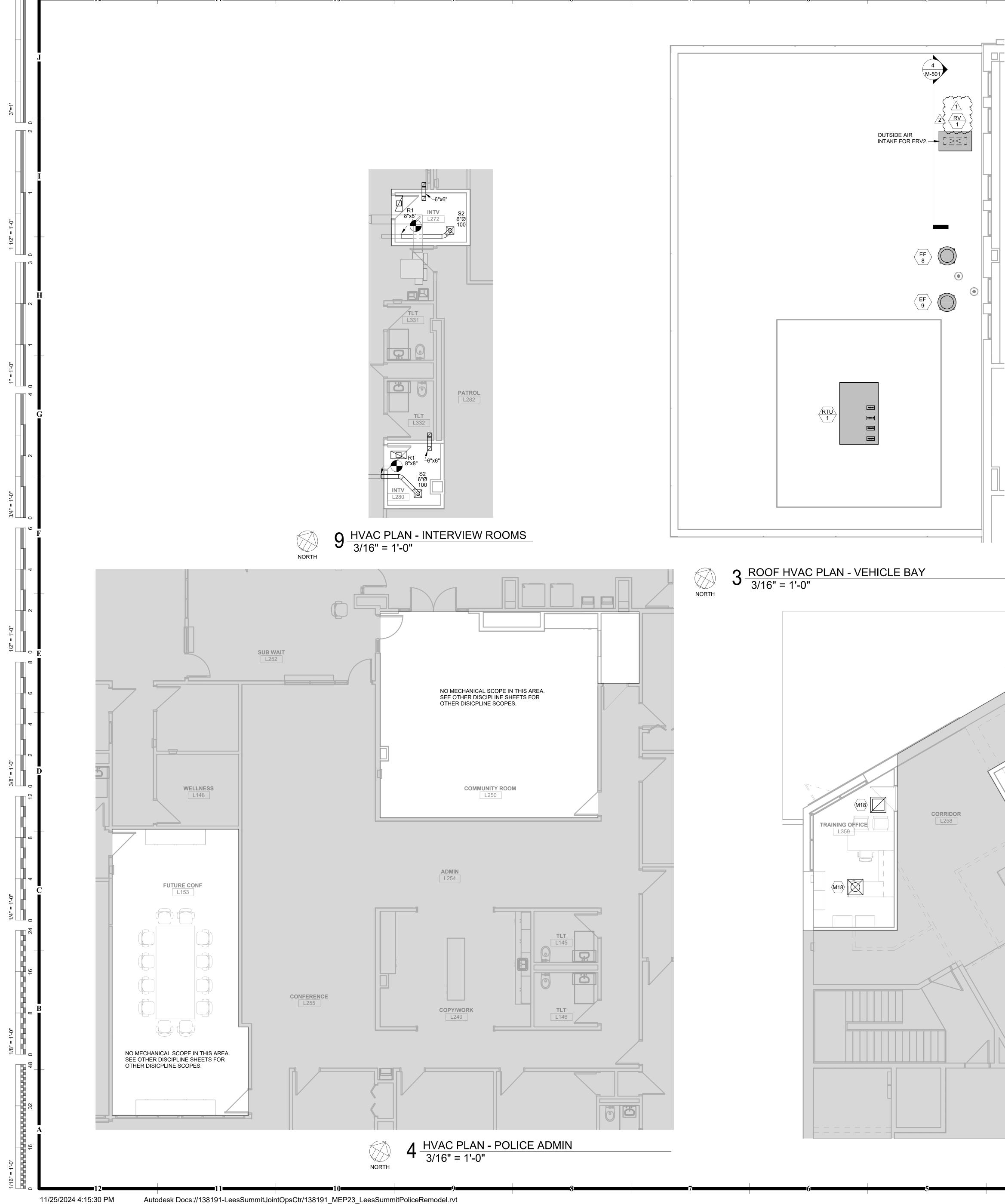
REMOVE THERMOSTAT FROM WALL. RETAIN FOR NEW CONSTRUCTION 

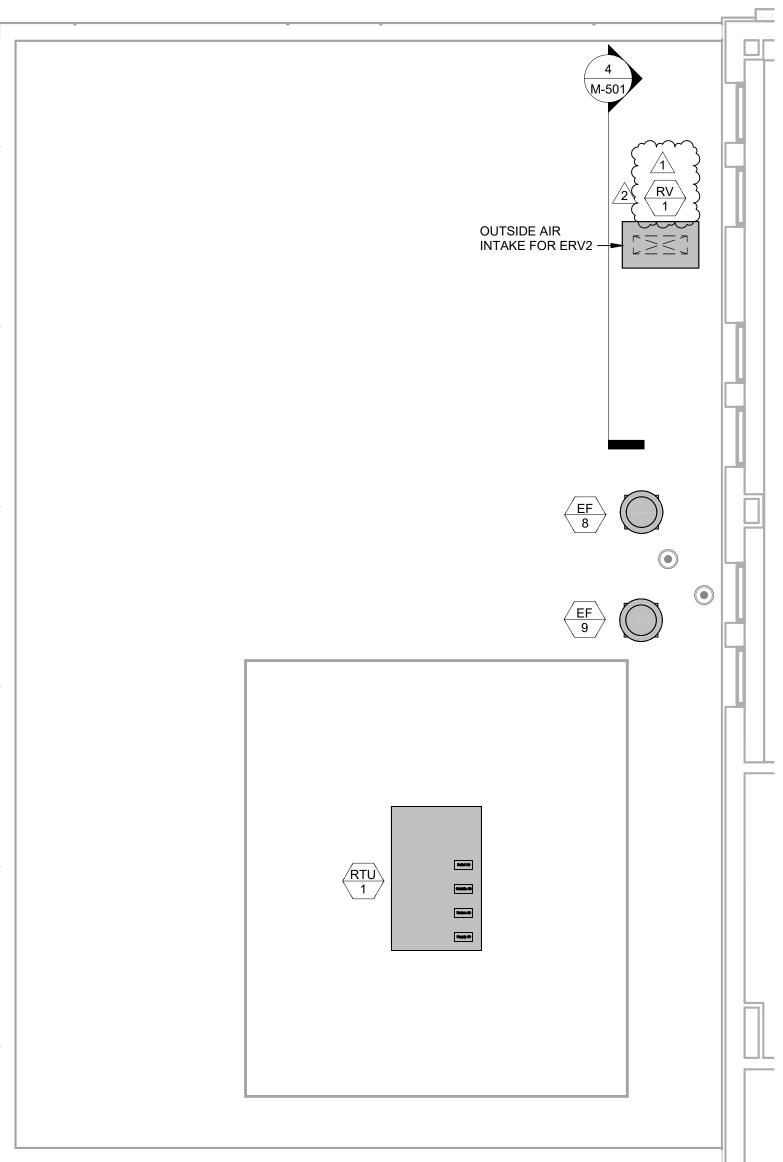


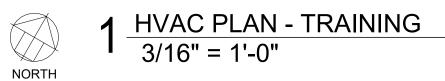


REFER TO SHEET MG001 FOR GENERAL MECHANICAL NOTES.

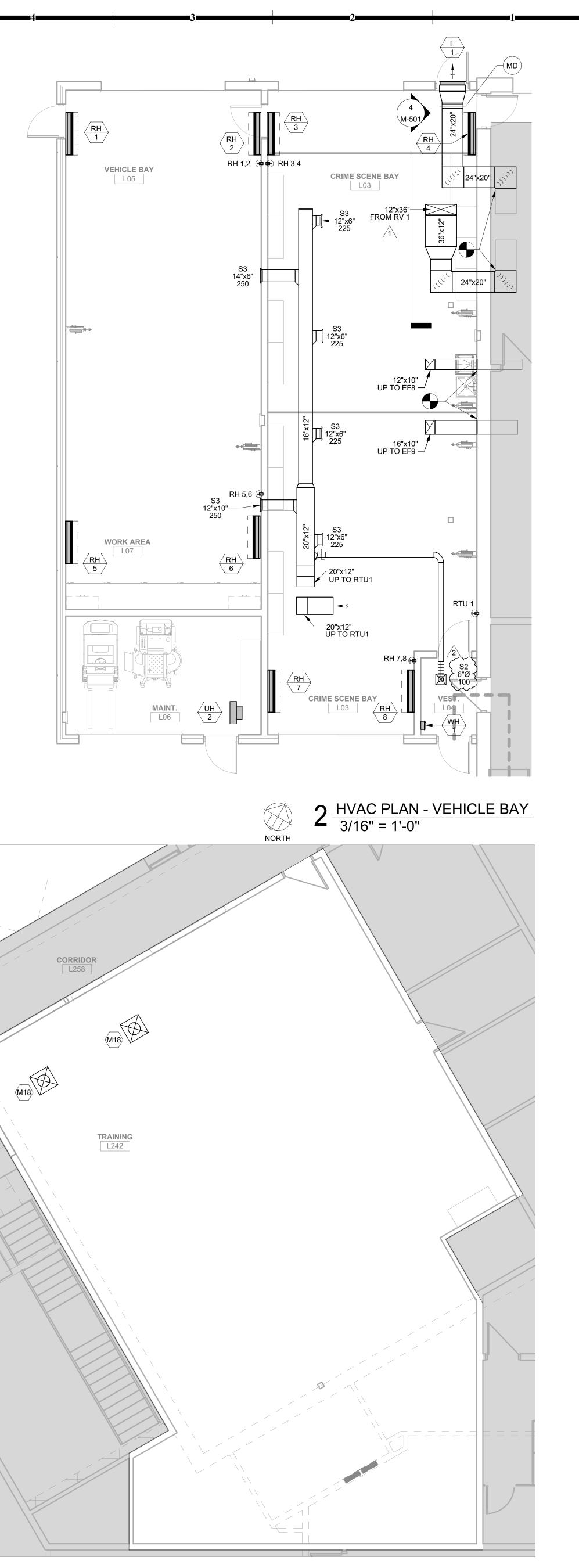










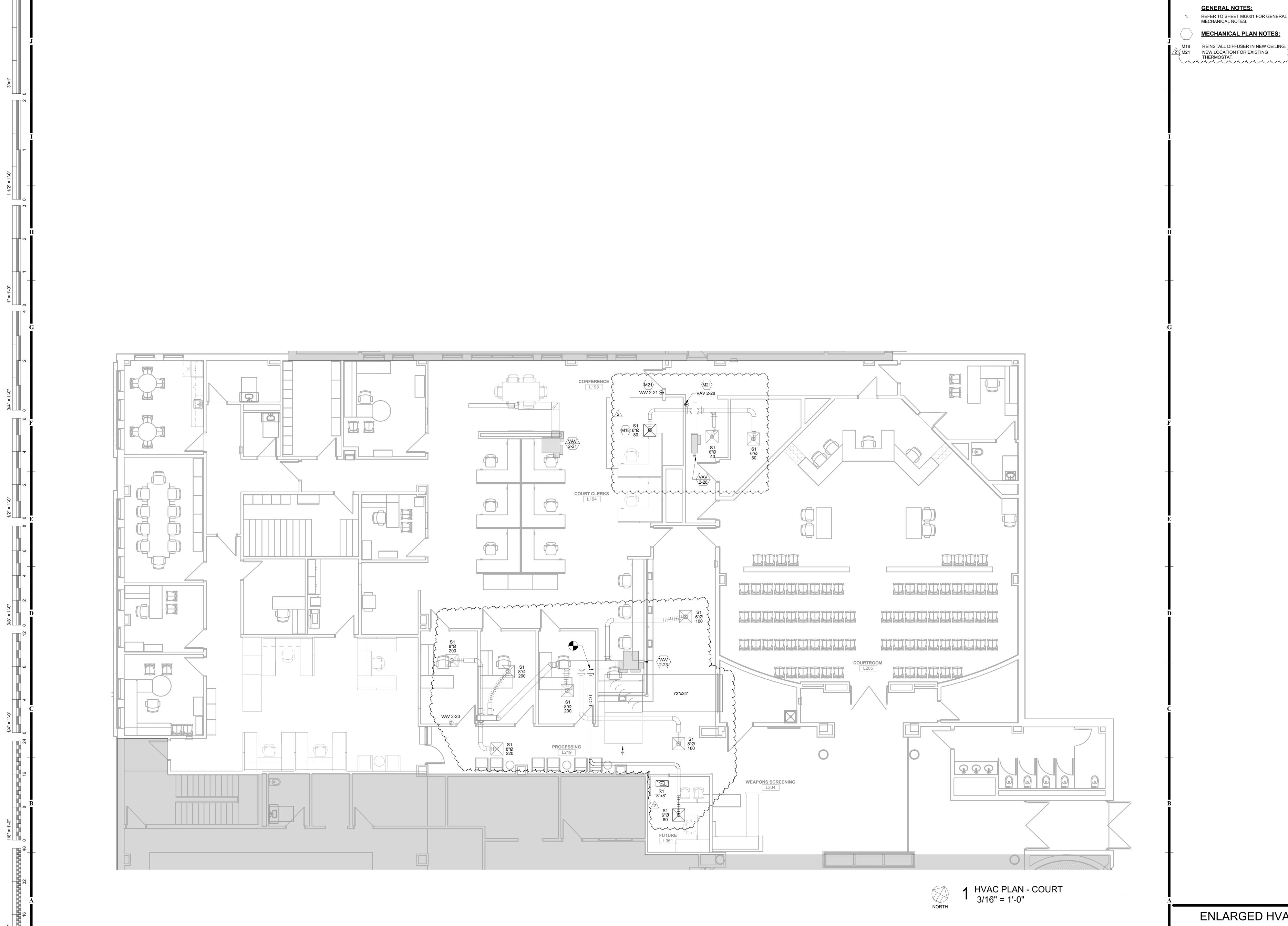


**GENERAL NOTES: MECHANICAL PLAN NOTES:** 

REFER TO SHEET MG001 FOR GENERAL MECHANICAL NOTES.

M18 REINSTALL DIFFUSER IN NEW CEILING.





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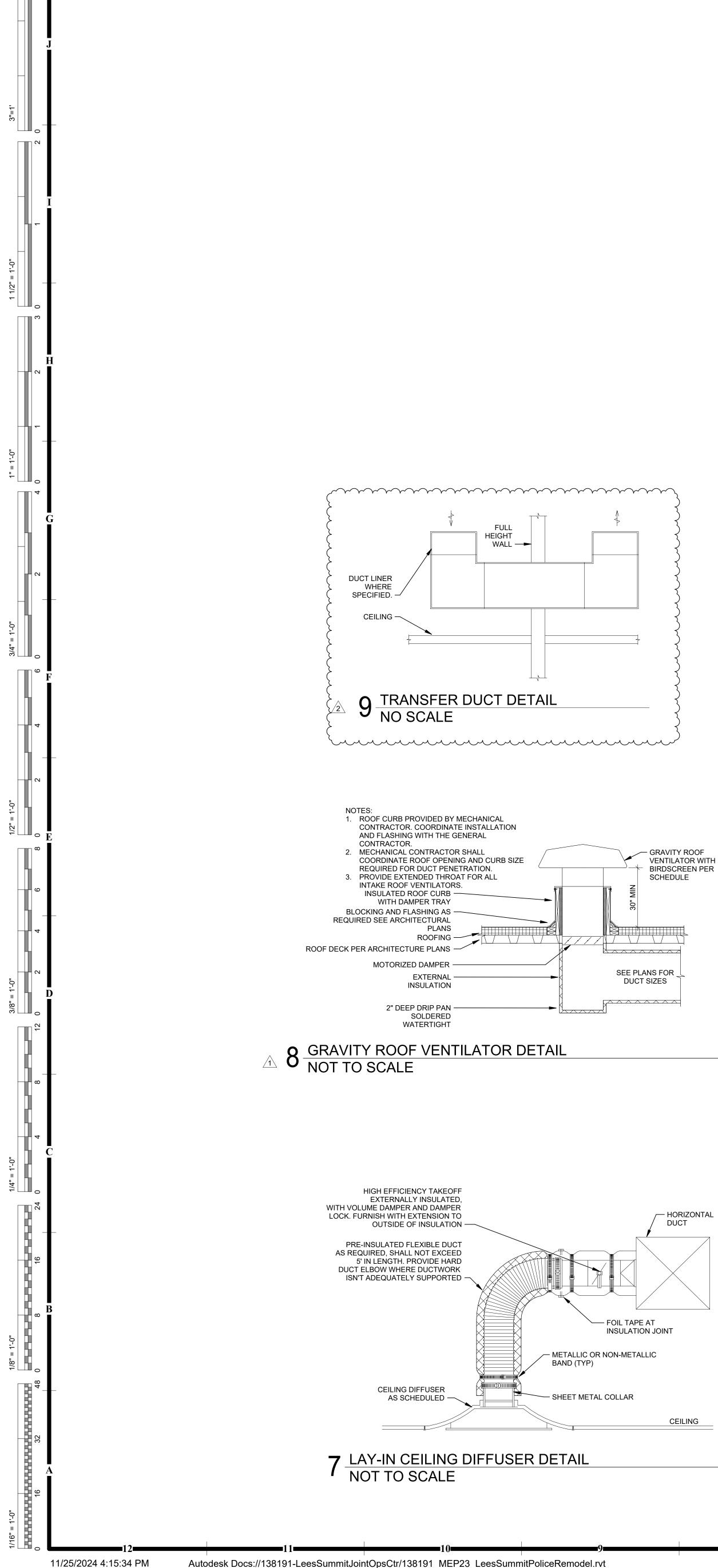
1/16" = 1'-

Autodesk Docs://138191-LeesSummitJointOpsCtr/138191\_MEP23\_LeesSummitPoliceRemodel.rvt

REFER TO SHEET MG001 FOR GENERAL

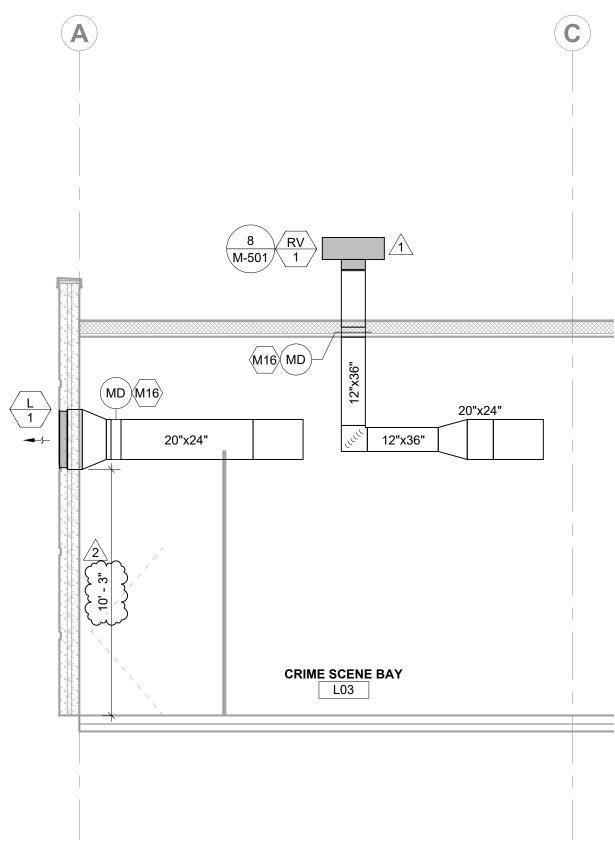
REINSTALL DIFFUSER IN NEW CEILING.



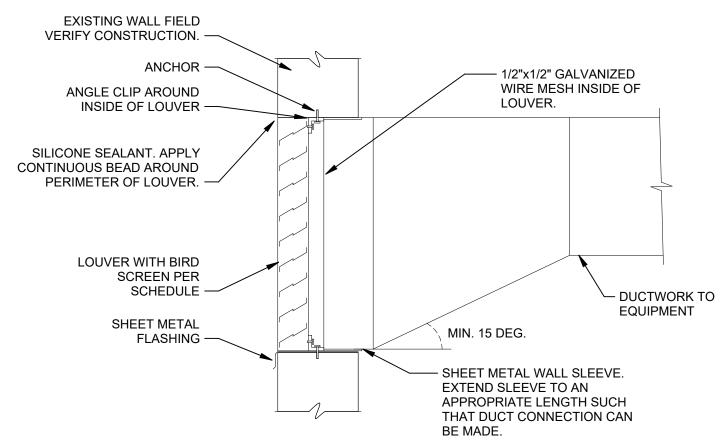


Autodesk Docs://138191-LeesSummitJointOpsCtr/138191 MEP23 LeesSummitPoliceRemodel.rvt

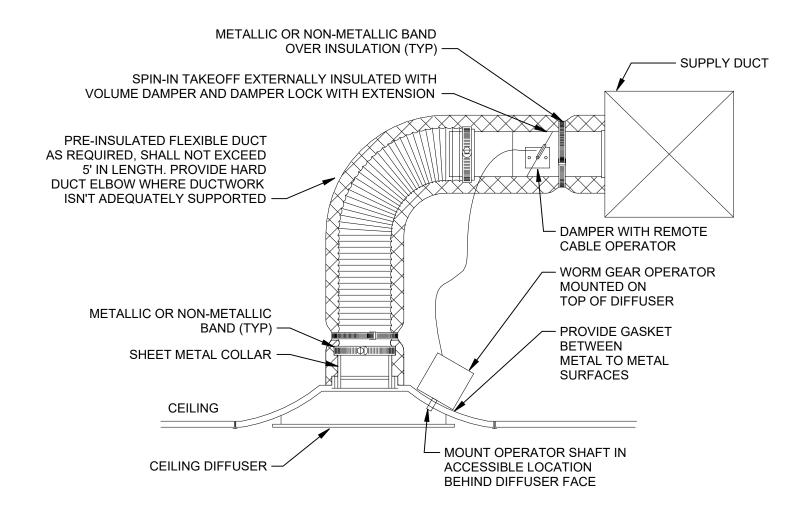
▲ OUTSIDE AIR AND RELIEF SECTION DETAIL 1/4" = 1'-0"





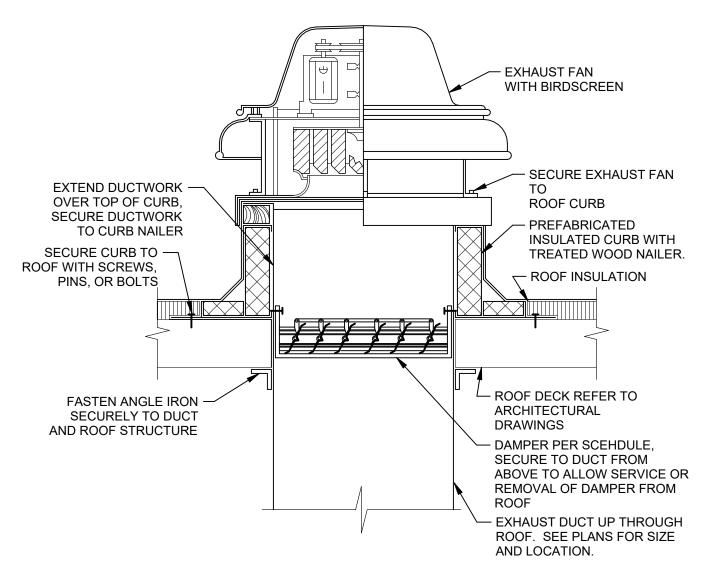


6 HARD CEILING DIFFUSER DETAIL NOT TO SCALE

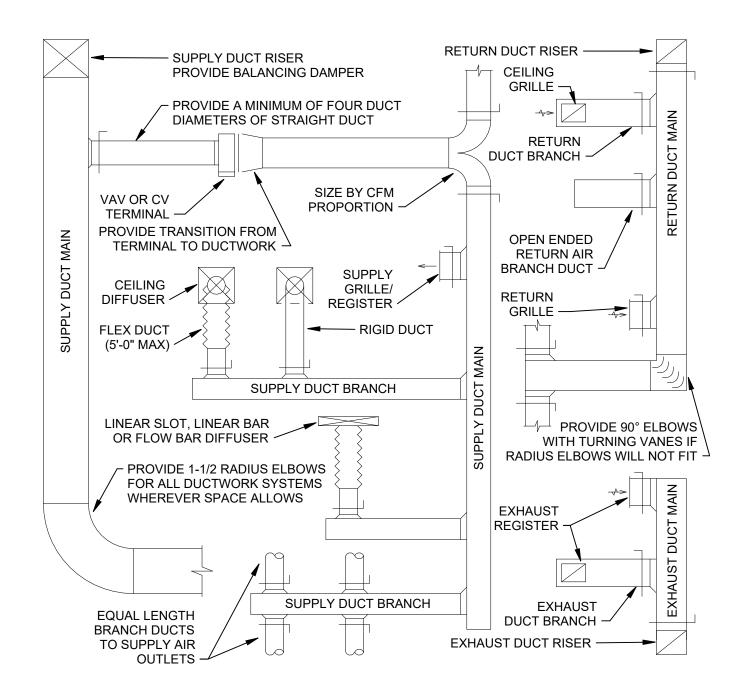


NOTES: 1. FURNISH REMOTE CABLE OPERATORS WHERE BALANCING DAMPERS ARE LOCATED IN-

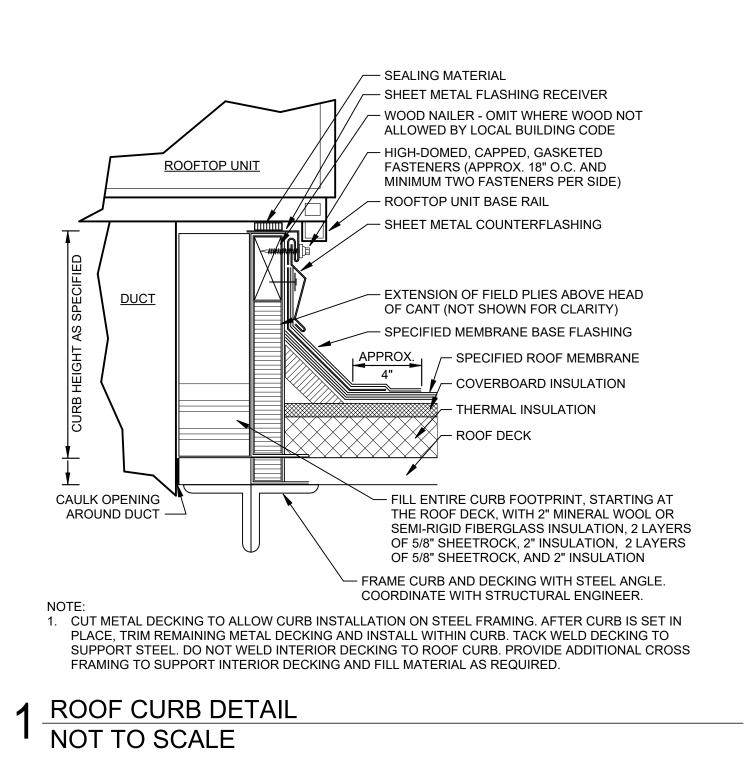
ACCESSIBLE LOCATIONS SUCH AS ABOVE HARD CEILINGS.

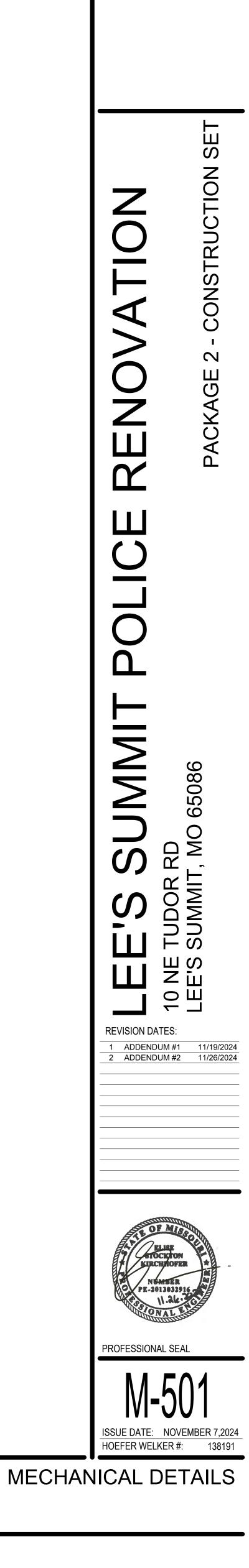


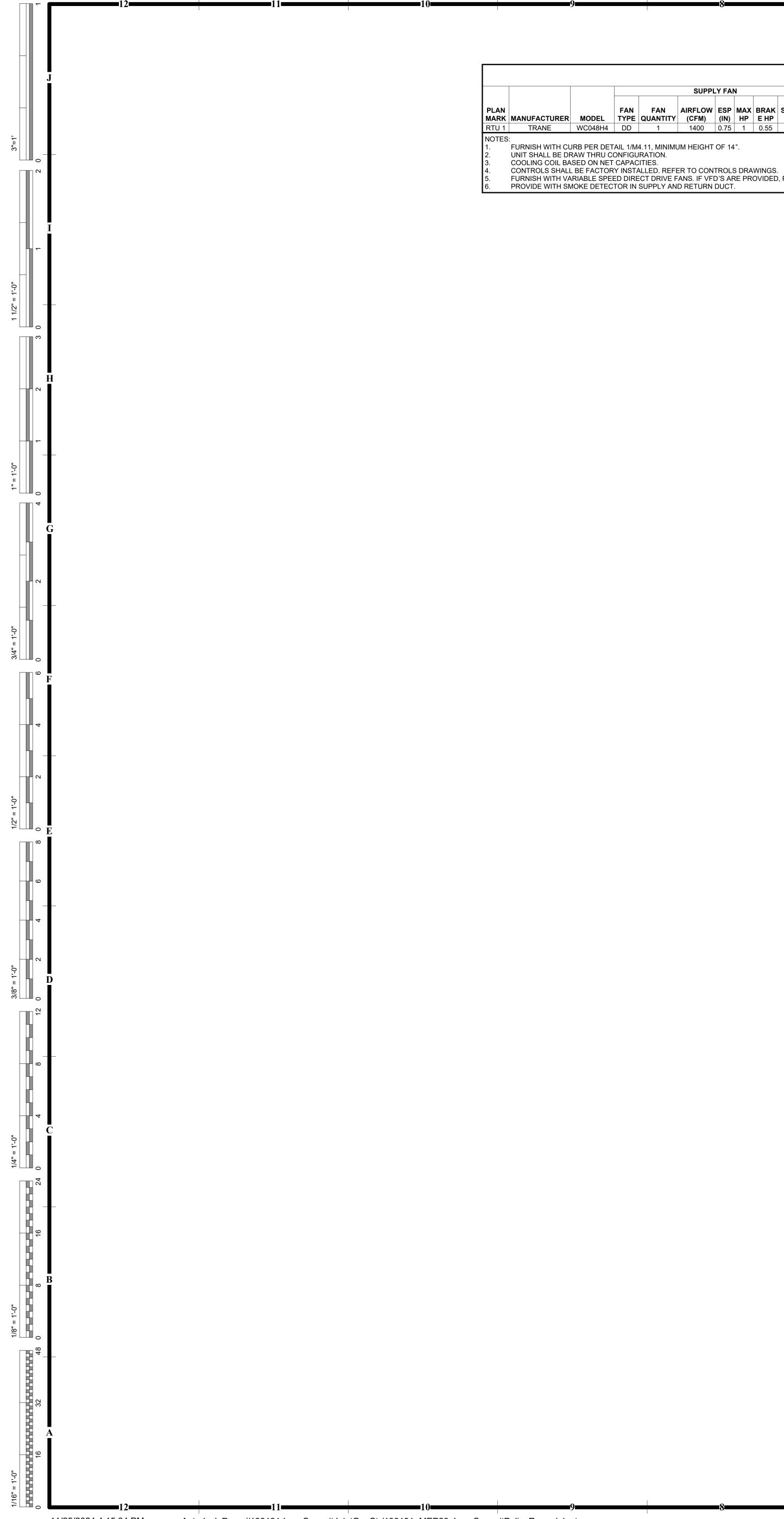
3 DOWNBLAST EXHAUST FAN DETAIL NOT TO SCALE



- NOTES: 1. REFER TO HVAC FLOOR PLANS FOR DUCT SIZES. 2. REFER TO SCHEDULES FOR GRILLES, REGISTERS, DIFFUSERS AND TERMINAL SIZES AND
- TYPES. 3. PROVIDE A MANUAL TYPE BALANCING DAMPER FOR EACH SUPPLY OUTLET AND RETURN
- INLET. 4. ALL DUCT RUNOUTS TO DIFFUSERS SHALL BE THE SAME SIZE AS DIFFUSER NECK SIZE,
- UNLESS OTHERWISE NOTED. 5. FLEX DUCT WILL NOT BE ALLOWED ON RETURN OR EXHAUST DUCTWORK SYSTEMS. 6. PROVIDE 12" AIR CUSHION AT THE END OF EACH SUPPLY MAIN AND BRANCH DUCT.
- 7. INDIVIDUAL BRANCH BALANCING DAMPERS NOT REQUIRED FOR SUPPLY OR EXHAUST REGISTERS.
- 2 DUCTWORK INSTALLATION DIAGRAM NOT TO SCALE







														ROOF			DULE															
	SUP	PLY FAN							C00	LING COI	L				HE		IL			FI	ILTERS		ELECT	RICAL		PH	SICAL P	ROPERTI	ES			
								E	AT	L	AT	MAX	AMBIENT					CONTROL	MIN O/A		PRE					MAX	MAX	MAX		MIN		
FAN	AIRFLO	N ESP I	MAX	BRAK	STARTER	ТН	SH	DB	WB	DB	WB	VELOCITY	TEMP	AIRFLOW	NOMINAL	EAT		(STAGED/	AIRFLOW		DIRTY SP					LENGTH	WIDTH	HEIGHT	WEIGHT	IEER		
QUANTITY	(CFM)	(IN)	HP	E HP	TYPE	(MBH)	(MBH)	(DEG.F)	(DEG.F)	(DEG.F)	(DEG.F)	(FPM)	(DEG.F)	(CFM)	(KW)	(DEG.F)	(DEG.F)	MOD)	(CFM)	MERV	LOSS (IN)	VOLTAGE	PHASE	FLA MCA	MOCP	(IN)	(IN)	(IN)	(LBS)	(AHRI)	OPTIONS	NOTES
1	1400	0.75	1	0.55	ECM	47	35	80.0	67.0	55.0	55.0	500	105	1400	0.0	65.0	82.0	SCR	140	8	0.4	460	3	0.0 23.0	25	8'	5'	6'	1200	16.5	BAS,DSE,ECON,HG	1-6
.11. MINIM	IUM HEIGH	HT OF 14"																														

FAN

FURNISH WITH VARIABLE SPEED DIRECT DRIVE FANS. IF VFD'S ARE PROVIDED, PROVIDE WITH SHAFT GROUNDING RINGS. PROVIDE WITH SMOKE DETECTOR IN SUPPLY AND RETURN DUCT.

								FA	N SCHE	DULE									
PLAN						AIRFLOW	ESP		BRAKE	MIN	FAN	STARTER		ELECT	RICA	L			
MARK	AREA SERVED	SERVICE	MANUFACTURER	MODEL	MOUNTING	(CFM)	(IN)	DRIVE	HP	HP	RPM	TYPE	VOLTAGE	PHASE	FLA	MCA	MOCP	OPTIONS	NOTES
EF 8	LL GEN EXHAUST	EXHAUST	GREENHECK	G-098	ROOF	465	0.8	DD	0.13	0.25	1553	ECM	120	1	3.8	4.8	15	BS,DSN,GBD	1,2
EF 9	FORENSICS RM	EXHAUST	GREENHECK	G-100	ROOF	1000	0.6	DD	0.21	0.25	1547	ECM	120	1	3.8	4.8	15	BS,DSN,GBD	1,3
NOTES																			
1.	FURNISH WITH INSU	JLATED STA	NDARD CURB, MINI	MUM HEIGH	T OF 14 ".														
2.	RECONNECT FAN C	ONTROLS T	O INTERLOCK FAN	OPERATION	WITH EXISTIN	NG AHU-1,	SO TH/	AT FAN IS	ON WHE	N AHU-1	IS ON.								
3	RECONNECT FAN C	ONTROLS. I	FAN SHALL RUN CO	NTINUOUSLY	Y.														

						LOUVE	ER SCHE	DULE					
PLAN MARK	AREA SERVED	SERVICE	MANUFACTURER		WIDTH (IN)	HEIGHT (IN)	AIRFLOW (CFM)	MIN FREE AREA (SF)	MAX VELOCITY (FPM)	MAX APD (IN WC)		OPTIONS	NOTES
L 1	CRIME SCENE BAY	RELIEF	RUSKIN	ELF6375DX	30"	30"	2205	3.00	800	0.10	BS		1-2
NOTES 1. 2.	COORDINATE LOUV COLOR AND FINISH		-		ITRACT	OR TO VE	RIFY SIZE (	)F OPENINGS	5.				

PLAN MARK AREA SERVE	Ð
UH 2 MAIN L06	_
WH 1 VEST L04	
NOTES:	
1. FURNISH NEC	E
2. MOUNT FLUSH	11
<ol><li>MOUNT SUSPE</li></ol>	ΞN

RH 1       RAYWALL       OCH2       WALL       55"       6"       4.0       277       1       14.4       20       DSN       1-2         RH 2       RAYWALL       OCH2       WALL       55"       6"       4.0       277       1       14.4       20       DSN       1-2         RH 2       RAYWALL       OCH2       WALL       55"       6"       4.0       277       1       14.4       20       DSN       1-2         RH 3       RAYWALL       OCH2       WALL       55"       6"       4.0       277       1       14.4       20       DSN       1-2         RH 3       RAYWALL       OCH2       WALL       55"       6"       4.0       277       1       14.4       20       DSN       1-2         RH 4       RAYWALL       OCH2       WALL       55"       6"       4.0       277       1       14.4       20       DSN       1-2         RH 5       RAYWALL       OCH2       WALL       55"       6"       4.0       277       1       14.4       20       DSN       1-2         RH 6       RAYWALL       OCH2       WALL       55"       6"       4.0 </th <th>PLAN</th> <th></th> <th></th> <th>MOUNTING</th> <th>LENGTH</th> <th>WIDTH</th> <th>NOMINAL</th> <th>E</th> <th>LECTRI</th> <th>CAL</th> <th></th> <th></th> <th></th>	PLAN			MOUNTING	LENGTH	WIDTH	NOMINAL	E	LECTRI	CAL			
RH 2       RAYWALL       OCH2       WALL       55"       6"       4.0       277       1       14.4       20       DSN       1-2         RH 3       RAYWALL       OCH2       WALL       55"       6"       4.0       277       1       14.4       20       DSN       1-2         RH 3       RAYWALL       OCH2       WALL       55"       6"       4.0       277       1       14.4       20       DSN       1-2         RH 4       RAYWALL       OCH2       WALL       55"       6"       4.0       277       1       14.4       20       DSN       1-2         RH 4       RAYWALL       OCH2       WALL       55"       6"       4.0       277       1       14.4       20       DSN       1-2         RH 5       RAYWALL       OCH2       WALL       55"       6"       4.0       277       1       14.4       20       DSN       1-2         RH 6       RAYWALL       OCH2       WALL       55"       6"       4.0       277       1       14.4       20       DSN       1-2         RH 7       RAYWALL       OCH2       WALL       55"       6"       4.0 </th <th>MARK</th> <th>MANUFACTURER</th> <th>MODEL</th> <th>LOCATION</th> <th>(IN)</th> <th>(IN)</th> <th>(KW)</th> <th>VOLTAGE</th> <th>PHASE</th> <th>FLA</th> <th>MOCP</th> <th>OPTIONS</th> <th>NOTES</th>	MARK	MANUFACTURER	MODEL	LOCATION	(IN)	(IN)	(KW)	VOLTAGE	PHASE	FLA	MOCP	OPTIONS	NOTES
RH 3       RAYWALL       OCH2       WALL       55"       6"       4.0       277       1       14.4       20       DSN       1-2         RH 4       RAYWALL       OCH2       WALL       55"       6"       4.0       277       1       14.4       20       DSN       1-2         RH 4       RAYWALL       OCH2       WALL       55"       6"       4.0       277       1       14.4       20       DSN       1-2         RH 5       RAYWALL       OCH2       WALL       55"       6"       4.0       277       1       14.4       20       DSN       1-2         RH 5       RAYWALL       OCH2       WALL       55"       6"       4.0       277       1       14.4       20       DSN       1-2         RH 6       RAYWALL       OCH2       WALL       55"       6"       4.0       277       1       14.4       20       DSN       1-2         RH 6       RAYWALL       OCH2       WALL       55"       6"       4.0       277       1       14.4       20       DSN       1-2         RH 7       RAYWALL       OCH2       WALL       55"       6"       4.0 </td <td>RH 1</td> <td>RAYWALL</td> <td>OCH2</td> <td>WALL</td> <td>55"</td> <td>6"</td> <td>4.0</td> <td>277</td> <td>1</td> <td>14.4</td> <td>20</td> <td>DSN</td> <td>1-2</td>	RH 1	RAYWALL	OCH2	WALL	55"	6"	4.0	277	1	14.4	20	DSN	1-2
RH 4         RAYWALL         OCH2         WALL         55"         6"         4.0         277         1         14.4         20         DSN         1-2           RH 5         RAYWALL         OCH2         WALL         55"         6"         4.0         277         1         14.4         20         DSN         1-2           RH 5         RAYWALL         OCH2         WALL         55"         6"         4.0         277         1         14.4         20         DSN         1-2           RH 6         RAYWALL         OCH2         WALL         55"         6"         4.0         277         1         14.4         20         DSN         1-2           RH 6         RAYWALL         OCH2         WALL         55"         6"         4.0         277         1         14.4         20         DSN         1-2           RH 7         RAYWALL         OCH2         WALL         55"         6"         4.0         277         1         14.4         20         DSN         1-2           RH 7         RAYWALL         OCH2         WALL         55"         6"         4.0         277         1         14.4         20         DSN	RH 2	RAYWALL	OCH2	WALL	55"	6"	4.0	277	1	14.4	20	DSN	1-2
RH 5       RAYWALL       OCH2       WALL       55"       6"       4.0       277       1       14.4       20       DSN       1-2         RH 6       RAYWALL       OCH2       WALL       55"       6"       4.0       277       1       14.4       20       DSN       1-2         RH 6       RAYWALL       OCH2       WALL       55"       6"       4.0       277       1       14.4       20       DSN       1-2         RH 7       RAYWALL       OCH2       WALL       55"       6"       4.0       277       1       14.4       20       DSN       1-2	RH 3	RAYWALL	OCH2	WALL	55"	6"	4.0	277	1	14.4	20	DSN	1-2
RH 6         RAYWALL         OCH2         WALL         55"         6"         4.0         277         1         14.4         20         DSN         1-2           RH 7         RAYWALL         OCH2         WALL         55"         6"         4.0         277         1         14.4         20         DSN         1-2	RH 4	RAYWALL	OCH2	WALL	55"	6"	4.0	277	1	14.4	20	DSN	1-2
RH 7         RAYWALL         OCH2         WALL         55"         6"         4.0         277         1         14.4         20         DSN         1-2	RH 5	RAYWALL	OCH2	WALL	55"	6"	4.0	277	1	14.4	20	DSN	1-2
	RH 6	RAYWALL	OCH2	WALL	55"	6"	4.0	277	1	14.4	20	DSN	1-2
	RH 7	RAYWALL	OCH2	WALL	55"	6"	4.0	277	1	14.4	20	DSN	1-2
RH 8   RAYWALL   OCH2   WALL   55"   6"   4.0   277   1   14.4   20   DSN   1-2	RH 8	RAYWALL	OCH2	WALL	55"	6"	4.0	277	1	14.4	20	DSN	1-2

PLAN MARK	MANUFACTURER	MODEL	FACE TYPE	MOUNTING LOCATION	COLOR	OBD	FACE SIZE (IN)	MAX PRESS DROP (IN WC)	MAX NC	OPTIONS	NOTES
R1	PRICE	80	EGG CRATE	LAY-IN CEILING	WHITE	NO	24"x12"	0.1	30		
R2	PRICE	80	EGG CRATE	LAY-IN CEILING	WHITE	NO	24"x24"	0.1	30		
S1	PRICE	SPD	PLAQUE	LAY-IN CEILING	WHITE	YES	24"x24"	0.1	30		1,2
S2	PRICE	SPD	PLAQUE	LAY-IN CEILING	WHITE	YES	12"x12"	0.1	30		1,2
S3	PRICE	520	DOUBLE DEFLECTION	WALL	BWHITE	YES	SEE DWG	0.1	30		1,3,4,5
IOTES	: NECK SIZE SHOW 4-WAY THROW PA DOUBLE DEFLECT FRONT BLADES PA ALUMINUM CONST	TTERN U ION BAR	NLESS OTHER S SHALL BE AD TO LONG DIME	WISE SHOWN JUSTABLE. A	ON DRAW	/INGS AN	D LEGEND				

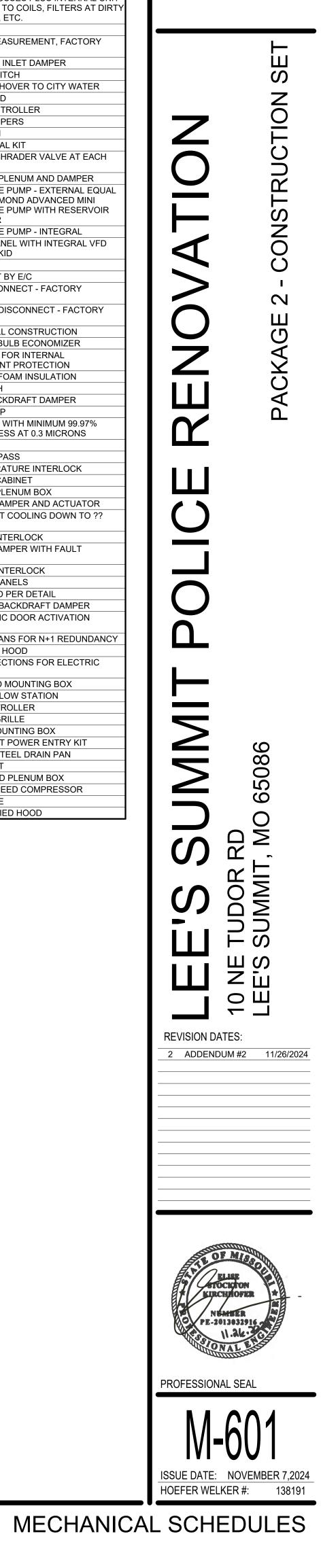
	ROOF VENT SCHEDULE												
	MAX PHYSICAL PROPERTIES												
PLAN				AIRFLOW	THROAT	MAX	THROAT	LENGTH	WIDTH	HEIGHT	-		
MARK	SERVICE	MANUFACTURER	MODEL	(CFM)	VEL (FPM)	APD (IN)	SIZE (IN)	(IN)	(IN)	(IN)		OPTIONS	NOTE
RV 1	INTAKE	GREENHECK	FGI	2250	800	0.1	12x36	52"	32"	14"	BS		1,2
NOTES 1. 2.	FURNISH \	VITH INSULATED S <sup>-</sup> I CONSTRUCTION A			IMUM HEIGH	T OF 14".							

	UNIT HEATER - ELECTRIC SCHEDULE											
			MOUNTING	AIRFLOW	NOMINAL	ELECTRICAL						
VED	MANUFACTURER	MODEL	TYPE	(CFM)	(KW)	VOLTAGE	PHASE	FLA	MOCP		OPTIONS	NOTES
6	RAYWALL	5100	SUSPEND	400	3.0	277	1	11.9	15	DSN,TI		1,3
4	RAYWALL	AFA	WALL	175	1.5	120	1	6.3	15	DSN,TI		1,2

CESSARY MOUNTING BRACKET AND ACCESSORIES. SH TO SURFACE. 1'-0" AFF. PENDED FROM STRUCTURE AT 10'-0" AFF. ANGLE DIFFUSER BLADES AT 45 DEG TOWARD GROUND.

				ROOF V	ENT SCH	EDULE					
			MAX			PHYSIC	CAL PROP	ERTIES			
ACTURER	MODEL	AIRFLOW (CFM)	THROAT VEL (FPM)	MAX APD (IN)	THROAT SIZE (IN)	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)		OPTIONS	NOTES
INHECK	FGI	2250	800	0.1	12x36	52"	32"	14"	BS		1,2

ME	CHANICAL ABBREVIATION LIST
GENEF 1	AL NOTES THE MANUFACTURER LISTED SHALL BE CONSIDERED THE BASIS OF DESIGN. EQUIPMENT AND ACCESSORIES SHALL BE SUPPLIED IN ACCORDANCE WITH THE SCHEDULED VALUES, NOTES, DETAILS,
	AND SPECIFICATIONS. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ADDITIONAL COST AND COORDINATION WHEN NON BASIS OF DESIGN EQUIPMENT IS PROVIDED.
2	ALL PERFORMANCE SHALL BE BASED ON EQUIPMENT OPERATING AT AN ELEVATION OF X,XXX FEET ABOVE SEA LEVEL.
3	SPECIFIED FAN ESP INCLUDES DUCT AND EQUIPMENT LOSSES EXTERNAL TO UNIT. SCHEDULED FAN TSP INCLUDES EXTERNAL LOSSES PLUS INTERNAL UNIT LOSSES DUE TO COILS, FILTERS AT DIRTY CONDITIONS, ETC.
OPTIO AFM	NS AIR FLOW MEASUREMENT, FACTORY
AID	INSTALLED ADJUSTABLE INLET DAMPER
AS	AIRFLOW SWITCH
ASCW BAC	AUTO-SWITCHOVER TO CITY WATER BACNET CARD
BAC	BACNET CARD BYPASS CONTROLLER
BD	BYPASS DAMPERS
BS BSK	BIRDSCREEN BREAKER SEAL KIT
BSV	BALL AND SCHRADER VALVE AT EACH PORT
BYD CPE	BYPASS AIR PLENUM AND DAMPER CONDENSATE PUMP - EXTERNAL EQUAL
	TO BLUE DIAMOND ADVANCED MINI CONDENSATE PUMP WITH RESERVOIR AND SENSOR
CPI CPPS	CONDENSATE PUMP - INTEGRAL CONTROL PANEL WITH INTEGRAL VFD FOR PUMP SKID
DP DSE	DRAIN PAN DISCONNECT BY E/C
DSF	FUSED DISCONNECT - FACTORY MOUNTED
DSN	NON-FUSED DISCONNECT - FACTORY MOUNTED
DWC	DOUBLE WALL CONSTRUCTION
ECON FB	0-100% DRY BULB ECONOMIZER FUSE BLOCK FOR INTERNAL OVERCURRENT PROTECTION
FFI	FIBER FREE FOAM INSULATION
FS GBD	FUEL SWITCH GRAVITY BACKDRAFT DAMPER
GT HEPA	GREASE TRAP HEPA FILTER WITH MINIMUM 99.97%
HG	EFFECTIVENESS AT 0.3 MICRONS HAIL GUARD
HGB HTI	HOT GAS BYPASS HOT TEMPERATURE INTERLOCK
IC	INSULATED CABINET
IPB ISO	INSULATED PLENUM BOX ISOLATION DAMPER AND ACTUATOR
LA	LOW AMBIENT COOLING DOWN TO ?? DEG.F.
LFI LLD	LOW FLOW INTERLOCK LOW LEAK DAMPER WITH FAULT DETECTION
LLI	LOW LEVEL INTERLOCK
LP LS	LOUVERED PANELS LIGHT SHIELD PER DETAIL
MBD	MOTORIZED BACKDRAFT DAMPER
MDS N1	24V MAGNETIC DOOR ACTIVATION SWITCH PROVIDE 2 FANS FOR N+1 REDUNDANCY
OAH	OUTSIDE AIR HOOD
	PLUG CONNECTIONS FOR ELECTRIC HEATER
RMB SAF	2" RECESSED MOUNTING BOX SURE-AIRE FLOW STATION
SC	SPEED CONTROLLER
SG SMB	STANDARD GRILLE SURFACE MOUNTING BOX
SIVIB	SINGLE POINT POWER ENTRY KIT
SSDP	STAINLESS STEEL DRAIN PAN
TK UPB	TWINNING KIT UNINSULATED PLENUM BOX
VSC WS	VARIABLE SPEED COMPRESSOR WALL SLEEVE
WSH	WEATHERSHIED HOOD



### SEQUENCE OF OPERATION

₩ 5 2 2 2 2

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1/8" = 1

48

- BUILDING AUTOMATION SYSTEM INTERFACE: 1. THE BUILDING AUTOMATION SYSTEM (BAS) SHALL SEND THE CONTROLLER MORNING WARM-UP/PRE-COOL, OCCUPIED/UNOCCUPIED AND HEAT/COOL MODES. THE BAS SHALL ALSO SEND THE DISCHARGE AIR TEMPERATURE SETPOINT AND THE DUCT STATIC PRESSURE SETPOINT. IF A BAS IS NOT PRESENT, OR COMMUNICATION IS LOST WITH THE BAS THE CONTROLLER SHALL OPERATE USING DEFAULT MODES AND SETPOINTS 2. RTU 1 SHALL BE CONNECTED TO THE BAS IN THE EXISTING BUILDING.
- OCCUPIED:
- 1. WHEN THE OCCUPANCY SENSOR DETECTS OCCUPANCY, THE UNIT SHALL TRANSITION TO THE OCCUPIED MODE. THE SUPPLY FAN SHALL RUN CONTINUOUSLY, AND THE OUTSIDE AIR DAMPERS SHALL OPEN TO MAINTAIN MINIMUM VENTILATION REQUIREMENTS. THE RELIEF FAN SHALL MODULATE BY TRACKING THE BUIDLING PRESSURE MONITOR.
- 2. THE HEAT PUMP COOLING AND HEATING SHALL CONTROL TO MAINTAIN THE ACTIVE DISCHARGE AIR TEMPERATURE SETPOINT. IF ECONOMIZING IS ENABLED, THE OUTDOOR AIR OR MIXED AIR DAMPERS SHALL MODULATE TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SETPOINT AND THE RELIEF AIR DAMPER SHALL TRACK THE MIXED AIR DAMPERS. THE DISCHARGE AIR TEMPERATURE SETPOINT SHALL BE DYNAMICALLY RESET BASED ON THE DEVIATION OF ACTUAL SPACE TEMPERATURE FROM THE ACTIVE SPACE TEMPERATURE SETPOINT. IF THE DISCHARGE AIR TEMPERATURE SENSOR FAILS, THE HEAT PUMP HEATING AND COOLING SHALL BE DISABLED AND AN ALARM SHALL ANNUNCIATE AT THE BAS.
- OCCUPIED STANDBY: 1. DURING OCCUPIED HOURS WHEN THE OCCUPANCY SENSORS DO NOT DETECT OCCUPANCY, THE UNIT SHALL MAINTAIN OCCUPIED STANDBY TEMPERATURES. WHEN THE OCCUPANCY SENSOR DETECTS OCCUPANCY, THE UNIT SHALL TRANSITION TO THE NORMAL OCCUPIED MODE.
- UNOCCUPIED: 1. WHEN THE SPACE TEMPERATURE IS BELOW THE UNOCCUPIED HEATING SETPOINT (ADJ.) THE SUPPLY FAN SHALL START, THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED AND THE HEAT PUMP HEATING SHALL BE ENABLED. WHEN THE SPACE TEMPERATURE RISES ABOVE THE UNOCCUPIED HEATING SETPOINT (ADJ.) PLUS THE UNOCCUPIED DIFFERENTIAL OF 2.0 DEG. F (ADJ.) THE SUPPLY FAN SHALL STOP AND THE HEAT PUMP HEATING SHALL BE DISABLED.
- WHEN THE SPACE TEMPERATURE IS ABOVE THE UNOCCUPIED COOLING SETPOINT (ADJ.) THE SUPPLY FAN SHALL START, THE OUTSIDE AIR DAMPER SHALL OPEN IF ECONOMIZING IS ENABLED AND REMAIN CLOSED IF ECONOMIZING IS DISABLED AND THE HEAT PUMP COOLING SHALL BE ENABLED. WHEN THE SPACE TEMPERATURE FALLS BELOW THE UNOCCUPIED COOLING SETPOINT MINUS THE UNOCCUPIED DIFFERENTIAL OF 2.0 DEG. F (ADJ.) THE SUPPLY FAN SHALL STOP, THE HEAT PUMP COOLING SHALL BE DISABLED AND THE OUTSIDE AIR DAMPER SHALL CLOSE.
- OPTIMAL START: 1. THE BAS SHALL MONITOR THE SCHEDULED OCCUPIED TIME, OCCUPIED SPACE SETPOINTS AND SPACE TEMPERATURE TO CALCULATE WHEN THE OPTIMAL START OCCURS.
- MORNING WARM-UP MODE: 1. DURING OPTIMAL START, IF THE SPACE TEMPERATURE IS BELOW THE OCCUPIED HEATING SETPOINT A MORNING WARM-UP MODE SHALL BE ACTIVATED. WHEN MORNING WARM-UP IS INITIATED THE UNIT SHALL ENABLE THE HEATING AND FAN(S). THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED. WHEN THE SPACE TEMPERATURE REACHES THE OCCUPIED HEATING SETPOINT (ADJ.), THE UNIT SHALL TRANSITION TO THE OCCUPIED MODE.
- PRE-COOL MODE: 1. DURING OPTIMAL START, IF THE SPACE TEMPERATURE IS ABOVE THE OCCUPIED COOLING SETPOINT, PRE-COOL MODE SHALL BE ACTIVATED. WHEN PRE-COOL IS INITIATED THE UNIT SHALL ENABLE THE FAN AND COOLING OR ECONOMIZER. THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED, UNLESS ECONOMIZING. WHEN THE SPACE TEMPERATURE REACHES OCCUPIED COOLING SETPOINT (ADJ.), THE UNIT SHALL TRANSITION TO THE OCCUPIED MODE.
- HEAT/COOL MODE: 1. WHEN THE SPACE TEMPERATURE RISES ABOVE THE OCCUPIED COOLING SETPOINT THE MODE SHALL TRANSITION TO COOLING. WHEN THE SPACE TEMPERATURE FALLS BELOW THE OCCUPIED HEATING SETPOINT THE MODE SHALL TRANSITION TO HEATING. WHEN THE SPACE TEMPERATURE IS ABOVE THE OCCUPIED COOLING SETPOINT OR BELOW THE OCCUPIED HEATING SETPOINT THE MODE SHALL REMAIN IN ITS LAST STATE. IF THE SPACE TEMPERATURE SENSOR FAILS THE MODE SHALL REMAIN IN ITS LAST STATE AND AN ALARM SHALL ANNUNCIATE AT THE BAS. IF THE LOCAL AND COMMUNICATED SETPOINTS FAIL THE CONTROLLER SHALL DISABLE THE SUPPLY FAN AND AN ALARM SHALL ANNUNCIATE AT THE BAS.
- DISCHARGE AIR TEMPERATURE RESET CONTROL: 1. IF THE DISCHARGE AIR TEMPERATURE DROPS BELOW THE MINIMUM LIMIT, A LOW TEMPERATURE ALARM SHALL ANNUNCIATE, AND THE UNIT SHALL SHUT DOWN. IF THE DISCHARGE AIR TEMPERATURE RISES ABOVE THE MAXIMUM LIMIT, A HIGH TEMPERATURE ALARM SHALL ANNUNCIATE.
- SUPPLY FAN: 1. DURING OCCUPIED HOURS OR ON A CALL FOR COOLING, THE SUPPLY FANS SHALL OPERATE CONTINUOUSLY AND THEIR SPEED SHALL BE MODULATED TO MAINTAIN THE SUPPLY DUCT STATIC PRESSURE SETPOINT. THE SUPPLY DUCT STATIC PRESSURE SETPOINT SHALL BE SENT BY THE BAS AND IS RESET BETWEEN THE MINIMUM AND MAXIMUM STATIC PRESSURE LIMITS TO MAINTAIN THE CRITICAL ZONE VAV AIR DAMPER IN A POSITION BETWEEN 65% AND 75% OPEN.
- 2. IF ANY FAN FAILS TO PROVE STATUS FOR 30 SECONDS (ADJ.), THE REMAINING FANS SHALL CONTINUE TO MODULATE TO MAINTAIN THE STATIC PRESSURE SETPOINT AND AN ALARM SHALL ANNUNCIATE AT THE BAS. 3. A HARDWIRED, HIGH STATIC PRESSURE CUT-OFF SWITCH SHALL BE ELECTRICALLY INTERLOCKED WITH THE SUPPLY AND RETURN VARIABLE SPEED DRIVES. IF THE HIGH STATIC PRESSURE CUT-OFF SWITCH IS TRIPPED THE SUPPLY AND RETURN FANS SHALL BE COMMANDED OFF, THE OUTSIDE AIR DAMPER SHALL CLOSE, HEATING AND COOLING SHALL BE DISABLED, AND AN ALARM SHALL ANNUNCIATE AT THE BAS. A MANUAL RESET OF THE HIGH STATIC PRESSURE CUT-OFF SWITCH SHALL BE REQUIRED TO RESTART THE SUPPLY AND RETURN FANS.
- MIXED AIR LOW LIMIT: 1. THE INITIAL DAMPER OPENING RATE SHALL BE LIMITED TO 2% PER MINUTE (ADJ.) UNTIL THE DAMPER HAS REACHED ITS MINIMUM VENTILATION POSITION. THE OUTSIDE AIR DAMPER SHALL MODULATE TO A POSITION LESS THAN THE MINIMUM DAMPER POSITION IF THE MIXED AIR TEMPERATURE DROPS BELOW 50.0 DEG. F (ADJ.). IF THE MIXED AIR TEMPERATURE SENSOR FAILS AN ALARM SHALL ANNUNCIATE AT THE BAS

# 2 RTU 1 CONTROL DIAGRAM - TACTICAL NOT TO SCALE

AND THE OUTSIDE AIR DAMPER SHALL RETURN TO THE MINIMUM POSITION.

11/7/2024 10:46:12 AM

**SEQUENCE OF OPERATION - CONT.** FREEZE PROTECTION:

- ANNUNCIATE AT THE BAS. FILTER STATUS: SHALL ANNUNCIATE AT THE BAS.
- ELECTRIC HEAT CONTROL: COMMANDED OFF.

# RETURN AIR DAMPER:

ECONOMIZER:

- THAN THE OUTSIDE AIR DRYBULB SETPOINT + 2.0 DEG. F. RETURN AIR DAMPER SHALL BE 100% CLOSED.
- TEMPERATURE SETPOINT. MAINTAIN SUPPLY AIR TEMPERATURE CONTROL
- CONDENSATE OVERFLOW MONITORING: DISABLED.

SMOKE DETECTOR SHUTDOWN: TO RESTART THE UNIT.

### 1. A HARDWIRED, LOW LIMIT TEMPERATURE SWITCH SHALL BE ELECTRICALLY INTERLOCKED WITH THE VARIABLE SPEED DRIVE. IF THE LOW LIMIT TEMPERATURE SWITCH IS TRIPPED 38.0 DEG. F (ADJ.), THE OUTSIDE AIR DAMPER SHALL CLOSE. THE ELECTRIC HEATING SHALL BE ENABLED. AN ALARM SHALL

1. A DIFFERENTIAL PRESSURE SWITCH SHALL MONITOR THE DIFFERENTIAL PRESSURE ACROSS THE FILTER(S) WHEN THE FAN IS RUNNING. IF THE SWITCH CLOSES DURING NORMAL OPERATION A DIRTY FILTER ALARM

1. WHEN THE OUTSIDE AIR TEMPERATURE IS BELOW 20 DEG F (ADJ) AND THE FAN IS ENABLED, THE ELECTRIC HEAT SHALL BE ALLOWED TO ENABLE. THE SCR HEAT AND THE HEAT PUMP SHALL OPERATE TO MAINTAIN THE DISCHARGE AIR SETPOINT. IF THE DISCHARGE AIR SETPOINT IS EXCEEDED, THE ELECTRIC RESISTANCE HEAT SHALL MODULATE TO MAINTAIN THE DISCHARGE AIR SETPOINT. ELECTRIC HEAT SHALL BE DISABLED WHEN THE UNIT IS NO LONGER IN HEATING MODE OR THE FAN IS

1. THE RETURN AIR DAMPER'S DEFAULT POSITION SHALL BE 100 % OPEN. IN ECONOMIZER MODE, THE RETURN AIR DAMPER SHALL FOLLOW THE ECONOMIZER SEQUENCE OF CONTROL.

A. ENABLE: THE ECONOMIZER SHALL ENABLE WHEN THE OA DRYBULB IS LESS THAN THE OUTSIDEAIR DRY BULB SETPOINT 65 DEG F (ADJ). THE ECONOMIZER SHALL BE DISABLED WHEN OA ENTHALPLY IS GREATER B. OPERATION: WHEN ECONOMIZING IS ENABLED, THE OUTSIDE AIR DAMPER SHALL BE 100% OPEN AND THE A. WHEN THE SUPPLY AIR TEMPERATURE DROPS BELOW THE SUPPLY AIR TEMPERATURE SETPOINT, THE RETURN AIR DAMPER SHALL MODULATE OPEN AT A RATE OF 2% PER MINUTE (ADJ). B. WHEN THE SUPPLY AIR TEMPERATURE RISES ABOVE THE SUPPLY AIR TEMPEARTURE SETPOINT, THE RETURN AIR DAMPER SHALL MODULATE CLOSED AT A RATE OF 2% PER MINUTE (ADJ). C. IF THE SUPPLY AIR TEMPERATURE DROPS BELOW THE SUPPLY AIR TEMPEATURE SETPOINT AND THE RETURN AIR DAMPER IS 100% OPEN, THEN THE OA DAMPER SHALL MODULATE CLOSED AT A RATE OF 2% PER MINUTE UNITIL THE SUPPLY AIR TEMPERATURE SETPOINT IS SATISFIED. THE OUTSIDE AIR DAMPER SHALL NOT CLOSE BEYOND THE MINIMUM OUTSIDE AIR VOLUME SETPOINT. THE OUTSIDE AIR DAMPER SHALL MODULATE OPEN IF THE SUPPLY AIR TEMPERATURE RISES ABOVE THE SUPPLY AIR

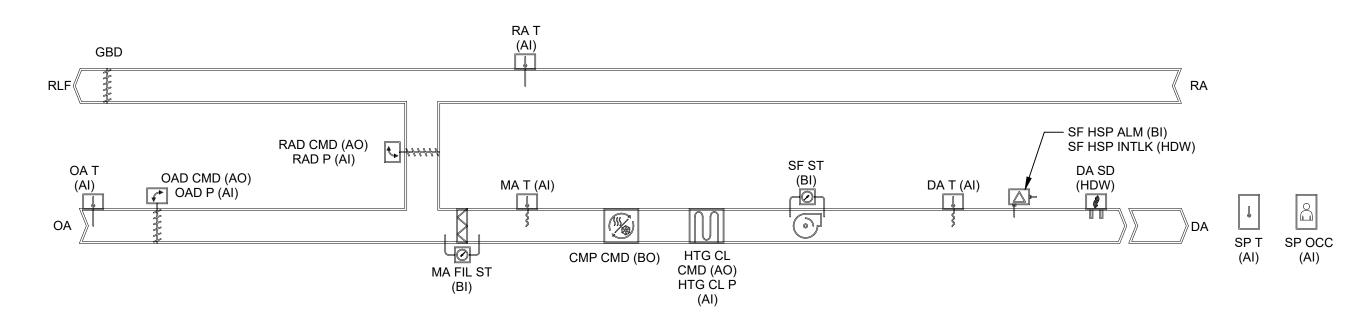
D. IF THE SUPPLY AIR TEMPERATURE RISES ABOVE THE SUPPLY AIR TEMPERATURE SETPOINT AND THE OUTSIDE AIR DAMPER IS 100% OPEN, THEN THE RETURN AIR DAMPER SHALL RESUME MODULATING TO

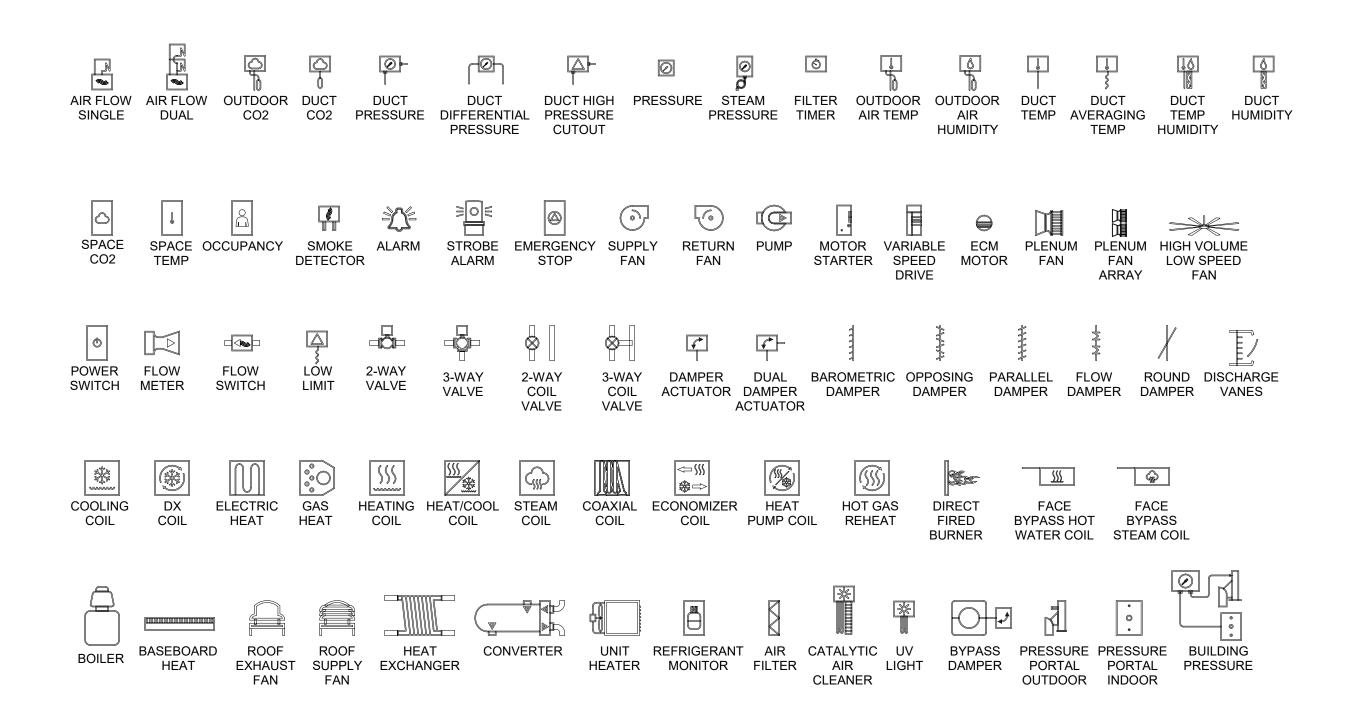
1. IF THE CONDENSATE LEVEL REACHES THE TRIP POINT, A CONDENSATE OVERFLOW DIAGNOSTIC SHALL ANNUNCIATE AT THE BAS TO PREVENT THE CONDENSATE DRAIN PAN FROM OVERFLOWING AND CAUSING WATER DAMAGE TO THE RTU. THE FAN SHALL BE DISABLED AND THE HEAT PUMP COOLING SHALL BE

1. THE UNIT SHALL SHUT DOWN IN RESPONSE TO A SIGNAL FROM THE SMOKE DETECTOR INDICATING THE PRESENCE OF SMOKE. THE SMOKE DETECTOR SHALL BE INTERLOCKED TO THE UNIT THROUGH THE DRY CONTACTS OF THE SMOKE DETECTOR. A MANUAL RESET OF THE SMOKE DETECTOR SHALL BE REQUIRED

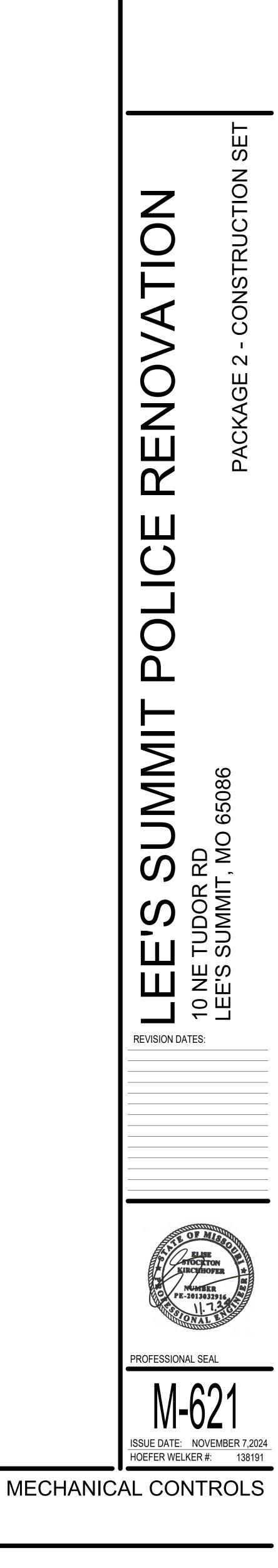
			POINTS	LIST								
			F	POINTS				AL	ARMS			
POINT ID	POINT DESCRIPTION	ТҮРЕ	DISPLAY GRAPHIC	SOFTWARE	HARDWIRE INTERLOCK	HIGH ANALOG LIMIT	LOW ANALOG LIMIT	BINARY	LATCH DIAGNOSTIC	SENSOR FAIL	COMM. FAIL	NOTES
DA CLG SP	DISCHARGE AIR COOLING SETPOINT			Х								56 F
DA HTG SP	DISCHARGE AIR HEATING SETPOINT			Х								65-90F
MA LLT SP	MIXED AIR TEMPERATURE LOW LIMIT SETPOINT			Х								40 F
OCC CLG SP	OCCUPIED COOLING SETPOINT		Х	Х								75 F
OCC HTG SP	OCCUPIED HEATING SETPOINT		Х	Х								68 F
UNOCC CLG SP	UNOCCUPIED COOLING SETPOINT		Х	Х								85 F
UNOCC HTG SP	UNOCCUPIED HEATING SETPOINT		Х	Х								55 F
OCC STBY CLG SP	OCCUPIED STANDBY COOLING SETPOINT		Х	X								78 F
OCC STBY HTG SP	OCCUPIED STANDBY HEATING SETPOINT		Х	X								65 F
DA T	DISCHARGE AIR TEMPERATURE	AI	Х			Х	Х			Х		
OA T	OUTDOOR AIR TEMPERATURE	AI	Х									
RA T	RETURN AIR TEMPERATURE	AI	Х									
MAT	MIXED AIR TEMPERATURE	AI	Х				Х			Х		
CMP CMD 1	COMPRESSOR 1 COMMAND	BO	Х									
HTG CL CMD	HEATING COIL COMMAND (SCR)	AO	Х									
SF FLW	SUPPLY FAN AIR FLOW	AI	Х									
SF SPD	SUPPLY FAN SPEED (VAR)	AO	Х									
SF CMD	SUPPLY FAN COMMAND (START/STOP)	BO	Х									
SF ST	SUPPLY FAN STATUS	BI	Х									
EPH LAT	ELECTRIC HEAT LEAVING COIL TEMPERATURE	AI	Х							Х		
EPH CMD	ELECTRIC HEAT OUTPUT COMMAND (MOD)	AO	Х									
OAD CMD	OUTDOOR AIR DAMPER COMMAND	AO	Х									
OAD P	OUTDOOR AIR DAMPER POSITION	AI	Х									
RAD CMD	RETURN AIR DAMPER COMMAND	AO	Х									
RAD P	RETURN AIR DAMPER POSITION	AI	Х									
MA FIL ST	MIXED AIR FILTER STATUS	BI	Х									
DA SD	DISCHARGE SMOKE DETECTOR INPUT				Х							
SF HSP ALM	HIGH STATIC ALARM	BI	Х					Х	X			
SF HSP INTLK	HIGH STATIC ALARM INTERLOCK				Х							
SF FAIL	SUPPLY FAN FAILURE		Х	X				Х				
BAS COM	BAS COMMUNICATION STATE			Х							Х	

# **HEAT PUMP HEATING AND COOLING**





CONTROLS LEGEND NOT TO SCALE



J	STANDARD MOUNTING HEIGHTS CONTROLS 48"	HOMERUN TO PANELBOARD. CONNECT TO PANELBOARD AND
	EXIT SIGNS (WALL MOUNTED)80"RECEPTACLES18"RECEPTACLES (EXTERIOR)24"RECEPTACLES (ABOVE COUNTER)+6" ABOVE BACKSPLASH/COUNTER, 48" MAXSAFETY SWITCHES48"STARTERS48"	PNL-CKT(S) CIRCUIT NUMBER(S) SHOWN. HOMERUN TO LIGHTING RELAY PANEL. CONNECT TO PANELBOARD AND CIRCUIT NUMBER SHOWN, RUNNING THROUGH RELAY PANEL AND RELAY NUMBER (SUMMARIZED BY SWITCH ID "a") SHOWN.
0	SWITCHES 48" TELEPHONE, DATA OUTLETS SAME AS ADJACENT DEVICE, UNO	BOXED PANELBOARD AND CIRCUIT NUMBER(S) INDICATE TO CONNECT WIRING DEVICES (ON POWER SHEETS) OR LIGHT FIXTURES AND DEVICES (ON LIGHTING SHEETS) IN THE SPACE TO PANELBOARD AND CIRCUIT NUMBER(S) SHOWN.
I	USE THE DEFAULT MOUNTING HEIGHTS SHOWN ABOVE UNLESS OTHERWISE NOTED IN THE CONSTRUCTION DOCUMENTS. MOUNTING HEIGHTS LISTED ARE ABOVE FINISHED FLOOR OR ABOVE FINISHED GRADE TO TOP OF OUTLET BOX. ALL DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH CURRENT ADA AND LOCAL REQUIREMENTS.	CONCEALED CONDUIT         UNDER FLOOR/IN GROUND CONDUIT         EXPOSED CONDUIT         FLEXIBLE CONDUIT         LOW VOLTAGE CABLE
	AFAMPERE FUSE SIZEMINMINIMUMAFCABOVE FINISHED CEILINGMLOMAIN LUGS ONLYAFFABOVE FINISHED FLOORMOCPMAXIMUM OVERCURRENTAFGABOVE FINISHED GRADEPROTECTIONAHJAUTHORITY HAVINGN/ANOT APPLICABLEJURISDICTIONNCNORMALLY CLOSEDAHUAIR HANDLING UNITNFNON-FUSEDAICAMPERE INTERRUPTINGNONORMALLY OPENAPRAPPROXIMATEDTESTING LABORATORY	CONDUIT TURNING DOWN CONDUIT TURNING UP BRANCH CIRCUIT CONDUCTOR TABLE
3 0 H	AIRAIR CONNUMEDTESTING CADORTORYASAMPERE SWITCH(CSA, ETL, NSF, UL)ATAMPERE TRIP SETTINGOSATSAUTOMATIC TRANSFERPSWITCHPH/ØPHASECCONDUITPNLCKTCIRCUITPROVIDE FURNISH AND INSTALLCODEAPPLICABLE CODEPTADOPTED BY JURISDICTIONRCPTCTCURRENT TRANSFORMERREFREFREFREFRIGERATOR	PROVIDE AT A MINIMUM THE FOLLOWING CONDUCTORS FOR ALL BRANCH CIRCUITS:# OF POLESHOT (PHASE)*NEUTRAL (GROUNDED)**GROUND (GROUNDING)1P(1)(1) UNO(1)2P(2)(1) UNO(1)0D(1)(1)(1)
	CVDCUMULATIVE VOLTAGE DROPRELORELOCATEDDEMODEMOLISHRLARUNNING LOAD AMPSDPDTDOUBLE-POLE,RLYRELAYDOUBLE-THROWSCCRSHORT-CIRCUIT CURRENTDPSTDOUBLE-POLE,RATINGSINGLE-THROWSESERVICE ENTRANCEEMEMERGENCYSPDTETREXISTING TO REMAINDOUBLE-THROWFAAPFIRE ALARM ANNUNCIATORSPSTSINGLE-POLE,SINGLE-POLE,DOUBLE-THROWSESINGLE-THROWSESINGLE-THROWSESINGLE-POLE,SPDTSINGLE-POLE,STSINGLE-POLE,STSINGLE-POLE,STSINGLE-POLE,STSTSTSTSTSTSTSTSTSTSTSTSTSTSTSTSTSTSTSTSTSTSTSTSTSTSTSTSTSTSTSTSTSTSTSTSTSTSTSTSTSTSTSTSTSTSTSTSTSTSTSTSTSTSTSTSTSTSTSTSTSTSTSTSTSTSTSTST	3P       (3)       (1) UNO       (1)         *       PROVIDE ADDITIONAL CONDUCTORS (SWITCHED, UNSWITCHED, EMERGENCY, ETC.) AS INDICATED THROUGHOUT CONSTRUCTION DOCUMENTS AND AS REQUIRED FOR A COMPLETE AND WORKING SYSTEM.         **       REFER TO SPECIFICATIONS FOR LIMITATIONS ON SHARING NEUTRAL (GROUNDED) CONDUCTORS. DO NOT CIRCUIT AS A
o 4	PANELSINGLE-THROWFACPFIRE ALARM CONTROL PANELSSBJSUPPLY SIDE BONDINGFCAFAULT CURRENT AMPSJUMPERAVAILABLESTSHUNT TRIPFFFINISHED FLOORTBBTELECOMMUNICATIONSFLAFULL LOAD AMPSBONDING BACKBONEFLRFLOORTBDTO BE DETERMINEDGECGROUNDING ELECTRICALTGBTELECOMMUNICATIONSCONDUCTORGROUND BUS BARGROUND BUS BAR	MULTI-WIRE BRANCH ĆIRCUIT, UNO. REFER TO SPECIFICATIONS, PLANS, NOTES, WIRING, AND CONTROL DIAGRAMS FOR ADDITIONAL CIRCUITING REQUIREMENTS. INTERIOR LIGHTING
~~~~	GESGROUNDING ELECTRODE SYSTEMTMGBTELECOMMUNICATIONS MAIN GROUND BUS BARGFRGROUND FAULT RELAYTYPTYPICALGGROUNDUCUNDERCABINETIGISOLATED GROUNDUNOUNLESS OTHERWISE NOTEDISCSHORT CIRCUIT CURRENTUPSUNITERRUPTIBLE POWERISOISOLATIONSUPPLYLRALOCKED ROTOR AMPSVFDVARIABLE FREQUENCYLRPLIGHTING RELAY PANELDRIVELTGLIGHTING/LIGHTSWWIRE	LIGHT FIXTURE A,a A = LIGHT FIXTURE TYPE "A" a = SWITCHED BY SWITCH ID "a" L = WALL MOUNT > = ARROW INDICATES AIMING DIRECTION CRITICAL LIGHT FIXTURE CONNECTED TO CRITICAL SOURCE* LIFE SAFETY LIGHT FIXTURE WITH EMERGENCY BATTERY
0 9 F	MAXMAXIMUMW/WITHMBJMAIN BONDING JUMPERWPWEATHER PROOFMCAMINIMUM CIRCUIT AMPACITYWRWEATHER RESISTANTMCBMAIN CIRCUIT BREAKERXPEXPLOSION PROOFMCCMOTOR CONTROL CENTERVITHVITH	PACK OR CONNECTED TO LIFE SAFETY SOURCE*
4		* SYMBOL DEMONSTRATED WITH TROFFER LIGHT FIXTURE. THE MEANING IS SIMILAR WHEN USED IN COMBINATION WITH OTHER FIXTURE TYPES.
~	LINETYPE LEGEND THROUGHOUT THE DRAWINGS DIFFERENT LINETYPES ARE USED TO INDICATE THE STATUS OF ITEMS AS EXISTING, DEMOLISHED, OR NEW. THE STATUS OF ITEMS USING THESE LINETYPES ARE RELATIVE TO THE VIEW IN WHICH THEY APPEAR. PHASING SHOWN IN DRAWINGS IS NOT INTENDED TO FULLY DESCRIBE ALL DESCRIPTION DUMORING WINDING DESCRIBE DX THE	LIGHTING CONTROL DEVICES SWITCH D = SWITCH DESIGNATION* - NONE = SINGLE POLE SWITCH - 2 = TWO POLE D,a - 3 = THREE-WAY 4 = FOUR-WAY -OR D = DIMMER
8	NECESSARY CONSTRUCTION PHASING, WHICH IS DETERMINED BY THE         CONTRACTOR AS PART OF THEIR RESPONSIBILITIES. ANY SUCH PHASES         DESCRIBED IN THE CONSTRUCTION DOCUMENTS ARE GENERAL AND ONLY         INTENDED TO INDICATE A BROAD ORDER FOR THE SAKE OF DESCRIBING         THE PROJECT.         EXISTING         TO REMAIN	<ul> <li>\$<sup>a</sup> - F = FAN SPEED CONTROL         <ul> <li>K = KEYED / TAMPER RESISTANT</li> <li>WP = WEATHER PROOF</li> <li>a = SWITCH ID "a"</li> <li>NO SWITCH ID INDICATES THE SWITCH CONTROLS ALL LIGHT FIXTURES WITHIN THE SPACE</li> </ul> </li> <li>RELAY/ROOM CONTROLLER         <ul> <li>RA = RELAY/ROOM CONTROLLER TYPE "A" *</li> </ul> </li> </ul>
4	ANNOTATION          1       ELECTRICAL PLAN NOTE CALLOUT         PLUMBING EQUIPMENT DESIGNATION. (CONTRACTOR FURNISHED AND INSTALLED). REFER TO PLUMBING FIXTURE OR EQUIPMENT SCHEDULES	<ul> <li>a = SWITCH ID "a"</li> <li>OCCUPANCY SENSOR - CEILING MOUNTED. COVERAGE</li> <li>PATTERN INDICATED BY WAVES.</li> <li>OA = OCCUPANCY SENSOR TYPE "A" *</li> <li>a = SWITCH ID "a"</li> <li>OCCUPANCY SENSOR - CORNER/WALL MOUNTED.</li> </ul>
∾ D	1       EQUIPMENT DESIGNATION (OWNER FURNISHED, CONTRACTOR INSTALLED)         CU       MECHANICAL EQUIPMENT DESIGNATION (CONTRACTOR FURNISHED AND INSTALLED UNLESS NOTED OTHERWISE)	<ul> <li>A = OCCUPANCY SENSOR TYPE "A" *         <ul> <li>a = SWITCH ID "a"</li> </ul> </li> <li>DAYLIGHT SENSOR - CEILING MOUNTED. AIMING DIRECTION INDICATED BY WAVES.         <ul> <li>DA = DAYLIGHT SENSOR TYPE "A" *</li> </ul> </li> </ul>
8   12 0	1 DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER 1 SECTION CUT DESIGNATION	a = SWITCH ID "a" AUTOMATIC LOAD CONTROL RELAY/BRANCH CIRCUIT TRANSFER SWITCH
0 C		* REFER TO LIGHTING CONTROL DEVICE SCHEDULE FOR ADDITIONAL INFORMATION, INCLUDING DEVICE AND TYPE SPECIFICATIONS.
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			CAL ONE-LINE DIAGRAM	SECUDIT	Y SYMBOLS L
	EQUIPMENT, WIRING DEVICES, AND BOXES				
	ELECTRICAL PANELBOARD (SURFACE OR FLUSH MOUNT) ELECTRICAL EQUIPMENT. REFER TO PLANS, SCHEDULES,	Ŷ	CIRCUIT BREAKER		CAMERA, ARC
	AND ONE-LINE DIAGRAM FOR EQUIPMENT TYPE (SWITCHBOARD, DISTRIBUTION PANELBOARD,	Ç ₩	DRAWOUT CIRCUIT BREAKER		×
	TRANSFORMER, ETC.). REFER TO PLANS AND SPECIFICATIONS FOR HOUSEPAD REQUIREMENTS.		COMBINATION CIRCUIT BREAKER/STARTER	CG- )YY	-XX Y
		÷,		ZZ-	
200/3/150/3R	200/3/150/3R = AMPERES/POLE/FUSE/NEMA RATING - NF = NON-FUSED - CB = CIRCUIT BREAKER (200/3/CB)		SWITCH		~ Z
	- NO VALUE (200/3/150) FOR NEMA RATING MEANS STANDARD NEMA 1 RATING		FUSED SWITCH	⊢ (xx)#	WALL MOUNT
	COMBINATION DISCONNECT (SAFETY) SWITCH AND MOTOR	<u>_</u>			
	STARTER 30/3/15/1/3R = AMPERES/POLE/FUSE/NEMA STARTER		COMBINATION FUSED SWITCH/STARTER	• XX #	PEDESTAL MC
30/3/15/1/3R └⊠	SIZE/NEMA RATING - NF = NON-FUSED - CB = CIRCUIT BREAKER (30/3/CB/1)		PANELBOARD (ONE OR MULTIPLE SECTIONS)	/#	
	- NO VALUE (200/3/150/1) FOR NEMA RATING MEANS STANDARD NEMA 1 RATING				CEILING/SURF
≥2	MAGNETIC MOTOR STARTER, NEMA SIZE AS NOTED. 3-		ISOLATED POWER PANELBOARD W/ INTEGRAL TRANSFORMER		DEVICE TAGG XX = DEVI
\$	POLE, UNO SINGLE POLE TOGGLE DISCONNECT SWITCH		TRANSFORMER		-AR
\$ <sup>M</sup>	MANUAL MOTOR STARTER DISCONNECT				-CR # =
\$ <sup>FH</sup>	FRACTIONAL HORSEPOWER MANUAL CONTROLLER		SHIELDED TRANSFORMER		-DR
\$ <sup>IH</sup>	INTEGRAL HORSEPOWER MANUAL CONTROLLER		AUTOMATIC TRANSFER SWITCH		-DS -ER
VFD	VARIABLE FREQUENCY DRIVE				-GB -IC
С	CONTACTOR				# =
TS			AUTOMATIC TRANSFER SWITCH WITH BYPASS		-IH -IK
PC	PHOTOCELL SIMPLEX RECEPTACLE - NEMA 5-20R, UNO				-IS -MD
Φ	DUPLEX RECEPTACLE - NEMA 5-20R, UNO	M/G	GENERATOR		-PB -RE
₩	DOUBLE DUPLEX RECEPTACLE - NEMA 5-20R, UNO				-TP -VD
Φ	SPECIAL RECEPTACLE - NEMA TYPE AS NOTED		OR SEPARATELY DERIVED SOURCE		
$\Phi$	TWIST-LOCK TYPE RECEPTACLE		SWITCHGEAR, SWITCHBOARD AND/OR DISTRIBUTION		
♦	GFCI TYPE RECEPTACLE	¶∎ ■	PANELBOARD		
Ö	ISOLATED GROUND TYPE RECEPTACLE*	DIGITAL			
<b>●</b> 荷	EMERGENCY RECEPTACLE* RECEPTACLE - ABOVE COUNTER*	MAM	COMBINATION DIGITAL VOLT METER/AMMETER		
U O	RECEPTACLE - ABOVE COUNTER RECEPTACLE - CEILING MOUNTED*	GFR	GROUND FAULT RELAY		
Ø	RECEPTACLE - FLOOR MOUNTED*	PFR	PHASE FAILURE RELAY		
	WIRING DEVICE TAGGING AND INFORMATION*:	KK			
	D = RECEPTACLE DESIGNATION(S) - NONE = STANDARD RECEPTACLE - C = AUTOMATICALLY CONTROLLED	M	MECHANICAL INTERLOCK SHUNT TRIP		
PNL-CKT(	- CH = CLOCK HANGER TYPE	PT	POWER TRIP		
	- ETR = EXISTING TO REMAIN - H = HORIZONTALLY MOUNTED	AT	AMMETER TRIP		
D,PNL-CK ⊔		GW	GATEWAY		
Q	- TR = TAMPER RESISTANT - USB = USB / DUPLEX - WP = WEATHER PROOF COVER	AM	AMMETER		
	- WR = WEATHER RESISTANT - TV = TELEVISION. REFER TO ARCHITECTURAL		VOLTMETER		
	ELEVATIONS FOR MOUNTING HEIGHT. - EWC = ELECTRICAL WATER COOLER				
	PNL-CKT(S) = CONNECT RECEPTACLE TO PANELBOARD AND CIRCUIT(S) INDICATED		CURRENT TRANSFORMER		
<u>• • • •</u>	MULTI-OUTLET ASSEMBLY	SPD	SURGE-PROTECTION DEVICE		
$\mathbf{\nabla}$	TELEPHONE / DATA OUTLET ROUGH IN/EXISTING		GROUND CONNECTION		
4	TELEPHONE / DATA - ABOVE COUNTER	•	GROUND CONNECTION WITH TEST WELL		
Ø	TELEPHONE / DATA - CEILING MOUNTED		GROUND ROD		
	TELEPHONE / DATA - FLOOR MOUNTED		LIGHTNING ARRESTER		
$\square^{\wedge}$	POWER POLE WITH TELEPHONE, DATA, AND POWER OUTLETS/FURNITURE FEED, A = TYPE "A"		HEATER		
	FLOOR BOX WITH DATA / TELEPHONE (ROUGH-IN) AND POWER OUTLETS, A = TYPE "A"		MOTOR		
OA	POKE THROUGH WITH DATA/TELEPHONE (ROUGH-IN) AND	TELECOM	SYMBOLS LEGEND	_	
	POWER OUTLETS / FURNITURE FEED, A = TYPE "A"	xx	WALL PHONE OUTLET, "XX" INDICATES NUMBER OF PHONE PORTS.		
ФŌ	WALL MOUNTED JUNCTION BOX / OUTLET BOX JUNCTION BOX/OUTLET BOX INSTALLED IN CEILING		PORIS.		
0 ©	BLANK FACE GFCI FEED THROUGH DEVICE	P/D	WALL PHONE/DATA OUTLET, "P" INDICATES NUMBER OF PHONE PORTS, "D" INDICATES NUMBER OF DATA PORTS.		
Ý P	FURNITURE POWER FEED	V V			
$\hat{\mathbb{Q}}$	FURNITURE DATA FEED	xx	WALL DATA OUTLET, "XX" INDICATES TYPE/NUMBER OF DATA		
Ŧ	EMERGENCY POWER OFF BUTTON		PORTS.		
		xx	CEILING DATA OUTLET, "XX" INDICATES TYPE/NUMBER OF		
			DATA PORTS. WIRING DEVICE TAGGING AND INFORMATION:		
			XX = DEVICE DESIGNATION(S) - #F = FURNITURE FEED, # INDICATES NUMBER OF CABLES		
			- TV = SINGLE PORT DATA FOR TELEVISION - WAP = 2 PORT DATA FOR WIRELESS ACCESS POINT		
		μ	- WPO = WALL PHONE OUTLET		
		#	FLOOR DATA OUTLET, "#" INDICATES NUMBER OF DATA PORTS.		
		– P/D			
	DEMONSTRATED WITH DUPLEX RECEPTACLE. THE MEANING IS WHEN USED IN COMBINATION WITH OTHER DEVICE TYPES.		FLOOR PHONE/DATA OUTLET, "P" INDICATES NUMBER OF PHONE PORTS, "D" INDICATES NUMBER OF DATA PORTS.		

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	GEN	ERAL ELECTRICAL NOTES:
	1.	FEDERAL, STATE, LOCAL, MUNICIPAL AND UTILITY COMPANY CODES, RULES AND
		REGULATIONS APPLY UNLESS EXCEEDED BY THIS DESIGN.
S LEGEND	2.	NO WORK SHALL BE PERFORMED PRIOR TO REVIEW AND APPROVAL OF ALL
		REQUIRED SHOP DRAWINGS, PRODUCT MATERIAL AND EQUIPMENT SUBMITTALS.
ARC REPRESENTS VIEWING ANGLE AND DIRECTION		ANY WORK INSTALLED PRIOR TO MEETING THESE REQUIREMENTS SHALL BE REMOVED BY CONTRACTOR WHERE DIRECTED BY CONTRACT ADMINISTRATOR.
- XX: CAMERA NUMBER	3.	PRIOR TO SUBMITTING BID, THE CONTRACTOR AND SUB-CONTRACTORS SHALL VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING
		CONDITIONS OF THE PROJECT. THE CONTRACTOR AND SUB-CONTRACTORS
- YY: CAMERA TYPE		SHALL BE RESPONSIBLE FOR REVIEW OF THE GENERAL NOTES, SPECIFICATIONS AND ALL OTHER DRAWINGS FOR ADDITIONAL REQUIREMENTS WHICH MAY NOT BE
		SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION
- ZZ: CAMERA HEIGHT (IF APPLICABLE)		DOCUMENTS. NOTIFY CONTRACT ADMINISTRATOR OF ANY DISCREPANCIES PRIOR
		TO SUBMISSION OF BID.
	4.	DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT THE GENERAL SCOPE OF
INT SYMBOL		THE WORK.
	5.	THE DRAWINGS REPRESENT THE BEST INFORMATION AVAILABLE TO THE
MOUNT SYMBOL		ENGINEER. ALL DIMENSIONS AND SIZES SHALL BE FIELD VERIFIED. SMALL DEVIATIONS BETWEEN THE DRAWINGS AND ACTUAL CONDITIONS ENCOUNTERED
		SHALL BE RECONCILED DURING THE PERFORMANCE OF THE WORK AND SHALL
		NOT CONSTITUTE REASON FOR ADDITIONAL COMPENSATION TO THE CONTRACTOR. NOTIFY THE CONTRACT ADMINISTRATOR IF ACTUAL CONDITIONS
JRFACE MOUNT SYMBOL		DEVIATE SUBSTANTIALLY FROM THOSE INDICATED ON THE DRAWINGS.
	6.	ALL FEES AND OTHER COSTS TO UTILITY COMPANIES, MUNICIPALITIES,
		INSPECTORS, REVIEWING AGENCIES, ETC. ARE TO BE INCLUDED AS A PART OF
EVICE DESIGNATION(S) R = RESCUE ASSISTANCE TWO-WAY		THIS CONTRACT.
COMMUNICATOR	7.	COORDINATE WITH ALL OTHER TRADES, MAKE ADJUSTMENTS AND OFFSETS
R = PROXIMITY CARD READER # = CARD READER DESIGNATION(S)		WHERE NEEDED FOR CLEARANCE REQUIREMENTS. REFER TO ALL OTHER DISCIPLINE DRAWINGS FOR COORDINATION.
- 1 = MULLION MOUNT CARD RÉADER		
- 2 = SINGLE GANG CARD READER R = DOOR RELEASE	8.	COORDINATE ALL OPENINGS IN WALLS, FLOORS, ROOFS AND FOUNDATIONS WITH OTHER CONTRACTORS. PROVIDE UL RATED FIRE STOPPING ASSEMBLIES AT ALL
S = DOOR CONTACT/DOOR POSITION SWITCH		PENETRATIONS OF FIRE RATED CONSTRUCTION. SEAL ALL PENETRATIONS OF
R = EMERGENCY PHONE 3 = GLASS BREAK SENSOR		SMOKE WALLS SMOKE TIGHT.
= VIDEO INTERCOM	9.	CONTRACTOR SHALL REPAIR ALL DAMAGE TO THE BUILDING, FIXTURES AND
# = VIDEO INTERCOM DESIGNATION(S) - 1 = VIDEO INTERCOM		FINISHES CAUSED BY CONTRACTOR DURING THE PERFORMANCE OF THE WORK. REPAIRS SHALL BE PERFORMED BY QUALIFIED TRADESMEN AND SHALL BE
- 2 = VIDEO INTERCOM W/ CARD READER		COMPLETED IN A MANNER ACCEPTABLE TO THE CONTRACT ADMINISTRATOR.
= INTRUSION ALARM HUB = INTRUSION ALARM KEYPAD	10.	REFER TO ARCHITECTURAL PLANS ELEVATIONS AND DETAILS FOR EXACT
= INTRUSION ALARM RETFAD	10.	MOUNTING REQUIREMENTS OF ELECTRICAL DEVICES PRIOR TO ROUGH-IN.
D = MOTION DETECTOR B = PANIC BUTTON	11.	PROVIDE A SEPARATE CODE SIZED GREEN EQUIPMENT GROUND CONDUCTOR IN
= REQUEST TO EXIT	11.	ALL CONDUITS AND RACEWAYS CONTAINING LINE VOLTAGE CIRCUITS.
<ul> <li>= TRAFFIC ARM PUSHBUTTON - OPEN/CLOSE</li> <li>= VEHICLE DETECTOR</li> </ul>	12.	NEUTRALS SHALL NOT BE SHARED FOR ANY WIRING UNLESS FOR SYSTEMS
	12.	FURNITURE REQUIRING A SHARED FOR ANY WIRING UNLESS FOR STSTEMS
		FOR THESE INSTANCES.
	13.	SPECIAL ATTENTION SHALL BE GIVEN TO ALL RACEWAYS WITHIN FINISHED AREAS
		WITHOUT CEILING AND EXPOSED TO STRUCTURE. IN GENERAL, ALL RACEWAYS SHALL BE CONCEALED WITHIN WALLS, BELOW FLOOR SLABS. WHERE EXPOSED
		CONDITIONS ARE NECESSARY OR UNAVOIDABLE DUE TO OTHER CONDITIONS, THE
		BID SHALL INCLUDE ANY REASONABLE MEANS TO MINIMIZE THE AMOUNT OF
		SURFACE MOUNTED EQUIPMENT. PRIOR TO ROUGH-IN, COORDINATE ALL EXPOSED RACEWAY AND BOX CONDITIONS WITH ARCHITECT PRIOR TO

- 14. NON-COMPLIANT INSTALLATIONS OF RACEWAY AND CABLE WILL NOT BE ACCEPTED AND WILL BE REQUIRED TO BE BROUGHT TO COMPLIANCE AT NO COST TO THE OWNER PRIOR TO COMPLETION OF WORK. 15. ALL EXPOSED CONDUIT AND BOXES WITHIN EXPOSED CEILING SPACES SHALL BE PAINTED TO MATCH SURROUNDING CEILING AND STRUCTURE. PROVIDE CONDUIT PARALLEL TO STRUCTURAL LINES IN A NEAT MANNER.
- 16. ALL CEILING MOUNTED DEVICES INSTALLED IN ACOUSTICAL TILE CEILINGS SHALL BE CENTERED WITHIN THE ACOUSTICAL TILE.
- 17. REQUEST DIMENSIONED LOCATIONS OF ALL FLOOR DEVICES FROM ARCHITECT PRIOR TO ROUGH-IN.

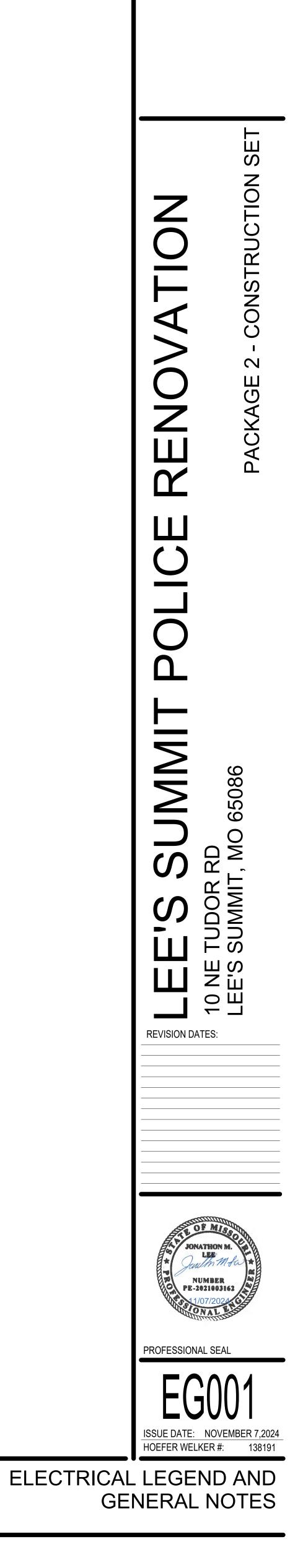
CONSTRUCTION OF WALLS, FLOOR SLABS, OR ROOF DECK.

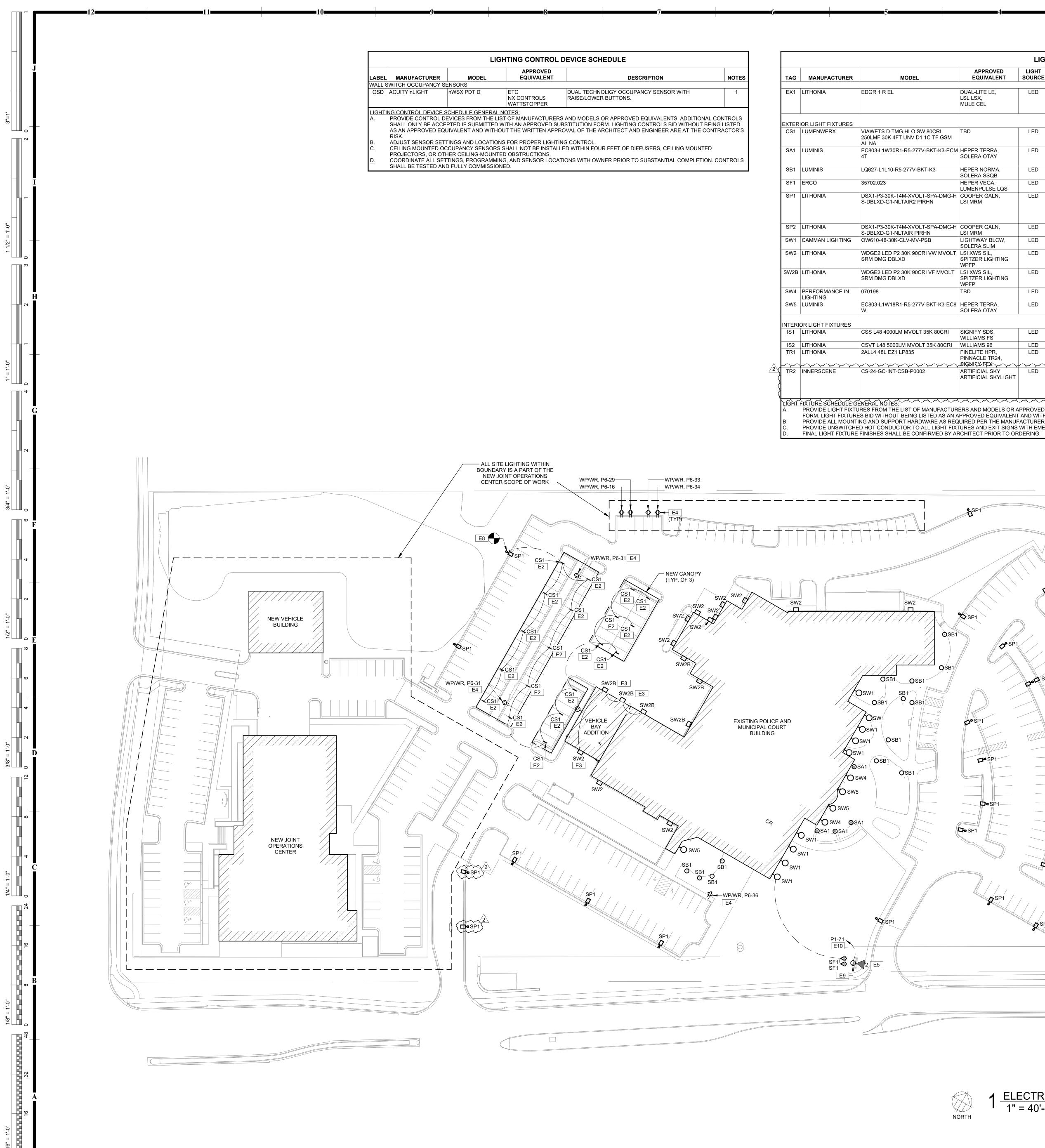
- 18. ALL DEVICES SHOWN DIRECTLY ADJACENT TO EACH OTHER SHALL BE INSTALLED DIRECTLY ADJACENT TO EACH OTHER. ADJACENT DEVICES OF SIMILAR TYPE SHALL BE PROVIDED WITH SINGLE FACEPLATE WHERE FEASIBLE.
- 19. DEVICES SHOWN BACK-TO-BACK SHALL BE OFFSET A MINIMUM OF TWELVE (12) INCHES TO REDUCE SOUND TRANSMISSION.
- PROVIDE ALL MISCELLANEOUS STEEL AS REQUIRED FOR THE PROPER 20. INSTALLATION OF ELECTRICAL EQUIPMENT AND SYSTEMS.
- 21. PROVIDE A NEUTRAL CONDUCTOR TO ALL WALL MOUNTED LIGHT SWITCH LOCATIONS.
- WHERE SPARE CONDUITS ARE INDICATED FOR FUTURE USE, PROVIDE PULL 22. STRINGS IN CONDUITS AND PROTECTIVE BUSHINGS AT OPENINGS. CAP CONDUITS WHERE LOCATED BELOW GRADE OR EXPOSED TO THE ELEMENTS.

### **GENERAL FIRE ALARM NOTES:**

- 1. FIRE ALARM SYSTEM DESIGN, INSTALLATION, AND MATERIALS SHALL BE IN ACCORDANCE WITH NFPA 72. SYSTEM SHALL MEET ALL APPLICABLE BUILDING CODES, FIRE CODES, AND THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION AND INSURANCE CARRIER. VERIFY REQUIREMENTS PRIOR TO BID.
- 2. PER IBC 107.3.4 AND 107.3.4.1, FIRE ALARM SHOP DRAWINGS SHALL BE PROVIDED FOR AHJ REVIEW AND APPROVAL PRIOR TO INSTALLATION AND WILL BE DEFERRED SUBMITTALS.
- 3. PROVIDE ALL EQUIPMENT AND LABOR REQUIRED FOR A COMPLETE AND OPERATION FIRE ALARM SYSTEM.
- 4. DO NOT INSTALL SMOKE DETECTORS WITHIN 3'-0" OF AN AIR SUPPLY DIFFUSER OR RETURN AIR GRILLE.
- 5. PROVIDE DUCT DETECTION AND SHUTDOWN FOR AIR DISTRIBUTION SYSTEMS EXCEEDING 2000 CFM. DUCT SMOKE DETECTION SHALL TRANSMIT A SUPERVISORY SIGNAL TO THE FACP.

ELECTRICAL SHEET INDEX							
SHEET NUMBER	SHEET NAME						
EG001	ELECTRICAL LEGEND AND GENERAL NOTES						
ES101	ELECTRICAL SITE PLAN						
ED101	ELECTRICAL DEMOLITION PLANS						
ED401	ENLARGED ELECTRICAL DEMOLITION PLANS						
ED402	ENLARGED ELECTRICAL DEMOLITION PLANS						
E-101	ELECTRICAL PLANS						
E-401	ENLARGED ELECTRICAL PLANS						
E-402	ENLARGED ELECTRICAL PLANS						
E-601	PANELBOARD SCHEDULES						





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LIGHTING CONTROL DEVICE SCHEDULE								
	APPROVED EQUIVALENT DESCRIPTION							
	ETC NX CONTROLS WATTSTOPPER	DUAL TECHNOLIGY OCCUPANCY SENSOR WITH RAISE/LOWER BUTTONS.	1					
<u>RAL NOTES:</u> E LIST OF MANUFACTURERS AND MODELS OR APPROVED EQUIVALENTS. ADDITIONAL CONTROLS ED WITH AN APPROVED SUBSTITUTION FORM. LIGHTING CONTROLS BID WITHOUT BEING LISTED THOUT THE WRITTEN APPROVAL OF THE ARCHITECT AND ENGINEER ARE AT THE CONTRACTOR'S								
ORS SH JNTED //MING	THOUT THE WRITTEN APPROVAL OF THE ARCHITECT AND ENGINEER ARE AT THE CONTRACTOR'S TIONS FOR PROPER LIGHTING CONTROL. DRS SHALL NOT BE INSTALLED WITHIN FOUR FEET OF DIFFUSERS, CEILING MOUNTED INTED OBSTRUCTIONS. IMING, AND SENSOR LOCATIONS WITH OWNER PRIOR TO SUBSTANTIAL COMPLETION. CONTROLS SIONED.							

AG	MANUFACTURER		LIGHT FIXTURE SCHEDULE								
EX1 L		MODEL	APPROVED EQUIVALENT	LIGHT SOURCE	DRIVER	LUMENS	ССТ	VOLTAGE	INPUT VA	DESCRIPTION NOTE	
	LITHONIA	EDGR 1 R EL	DUAL-LITE LE, LSL LSX, MULE CEL	LED				277 V		EDGE LIT LED EXIT SIGN WITH RED LETTERS ON A MIRROR PANEL. INTEGRAL BATTERY POWER.TOP MOUNTED TO CEILING ABOVE AND CENTERED ABOVE DOOR. REFER TO DRAWINGS FOR NUMBER AND DIRECTION OF CHEVRONS.	
TERIC	OR LIGHT FIXTURES										
CS1 L	LUMENWERX	VIAWETS D TMG HLO SW 80CRI 250LMF 30K 4FT UNV D1 1C TF GSM AL NA	TBD	LED	0-10V	1000 lm	3000 K	277 V	24 VA	SURFACE MOUNTED, WET LISTED LINEAR FIXTURE. CUSTOM PROGRAM DRIVER TO OUTPUT LUMENS SHOWN.	
SA1 L	LUMINIS	EC803-L1W30R1-R5-277V-BKT-K3-ECM 4T	HEPER TERRA, SOLERA OTAY	LED	0-10V	3700 lm	3000 K	277 V	38 VA	POST TOP LED FIXTURE WITH DECORATIVE TOP COVER. EXTERIOR RATED. PROVIDE WITH 10'-0" TALL, 4" DIAMETER ROUND POLE. BLACK FINISH.	
SB1 L	LUMINIS	LQ627-L1L10-R5-277V-BKT-K3	HEPER NORMA, SOLERA SSQB	LED	0-10V	1200 lm	3000 K	277 V	13 VA	SQUARE LED BOLLARD. EXTERIOR RATED. 6" SQUARE BY 42" TALL. BLACK FINISH.	
SF1 E	ERCO	35702.023	HEPER VEGA, LUMENPULSE LQS	LED	0-10V	2000 lm	3000 K	277 V	19 VA	SURFACE MOUNTED LED WALL WASH FLOOD. EXTERIOR RATED. BLACK FINISH.	
SP1 L	LITHONIA	DSX1-P3-30K-T4M-XVOLT-SPA-DMG-H S-DBLXD-G1-NLTAIR2 PIRHN	COOPER GALN, LSI MRM	LED	0-10V	11400 lm	3000 K	480 V		RECTANGULAR LED AREA LIGHT. EXTERIOR RATED. TYPE 4 DISTRIBUTION. BLACK FINISH. PROVIDE WITH 17'-0" TALL BY 6" WIDE SQUARE POLE. POLE HEIGHT, INCLUDING CONCRETE BASE, SHALL NOT EXCEED 20'-0" AFG. WIRELESS CONTROLS FOR AUTOMATIC DIMMING.	
SP2 L	LITHONIA	DSX1-P3-30K-T4M-XVOLT-SPA-DMG-H S-DBLXD-G1-NLTAIR PIRHN	COOPER GALN, LSI MRM	LED	0-10V	22800 lm	3000 K	480 V	204 VA	SIMILAR TO TYPE SP1, EXCEPT WITH (2) HEADS AT 180 DEGREES ON THE SAME POLE AND NO HOUSE SIDE SHIELD.	
	CAMMAN LIGHTING	OW610-48-30K-CLV-MV-PSB	LIGHTWAY BLCW, SOLERA SLIM	LED	0-10V	3400 lm	3000 K	277 V	40 VA	VERTICAL WALL SCONCE WITH FLAT METAL BODY. EXTERIOR RATED. BLACK FINISH.	
W2 L	LITHONIA	WDGE2 LED P2 30K 90CRI VW MVOLT SRM DMG DBLXD	LSI XWS SIL, SPITZER LIGHTING WPFP	LED	0-10V	2000 lm	3000 K	277 V	15 VA	LED EXTERIOR WALL PACK. BLACK FINISH.	
N2B L	LITHONIA	WDGE2 LED P2 30K 90CRI VF MVOLT SRM DMG DBLXD	LSI XWS SIL, SPITZER LIGHTING WPFP	LED	0-10V	2000 lm	3000 K	277 V	15 VA	SIMILAR TO TYPE SW2, EXCEPT FORWARD THROW OPTICS.	
	PERFORMANCE IN LIGHTING	070198	TBD	LED	0-10V	330 lm	3000 K	277 V	10 VA	SQUARE WALL SCONCE WITH PATTERNED OUTPUT.	
SW5 L	UMINIS	EC803-L1W18R1-R5-277V-BKT-K3-EC8 W	HEPER TERRA, SOLERA OTAY	LED	0-10V	2200 lm	3000 K	277 V	21 VA	SIMILAR TO TYPE SA1, EXCEPT WALL MOUNTED.	
TERIO	R LIGHT FIXTURES										
		CSS L48 4000LM MVOLT 35K 80CRI	SIGNIFY SDS, WILLIAMS FS	LED	0-10V	4000 lm	3500 K	277 V	35 VA	4 FOOT SURFACE MOUNTED STRIPLIGHT WITH LENS.	
	ITHONIA	CSVT L48 5000LM MVOLT 35K 80CRI	WILLIAMS 96	LED	NON-DIM	5000 lm	3500 K	277 V	42 VA	VAPOR TIGHT LED STRIP FIXTURE.	
		2ALL4 48L EZ1 LP835	FINELITE HPR, PINNACLE TR24, SIGNIFX-FFX	LED	0-10V	4750 lm	3500 K	277 V		RECESSED LED 2x4 TROFFER WITH CENTER ACRYLIC LENS.	
	NNERSCENE	CS-24-GC-INT-CSB-P0002	ARTIFICIAL SKY ARTIFICIAL SKY	LED	0-10V	4350 lm	3500 K	277 V	75 VA	ARTIFICIAL LED SKYLIGHT WITH AUTOMATIC CIRCADIAN RHYTHM INTENSITY AND COLOR TEMPERATURE PROGRAMMING. PROVIDE NECESSARY CONTROLS TO ENSURE THE FIXTURE AUTOMATICALLY TRANSITIONS THROUGHOUT THE DAY WITHOUT USER INPUT.	
<u>áhť f</u> i	IXTURE SCHEDULE G	ENERAL NOTES:	······································	$\sim$	·····	h	$\sim$	inn			

E1 (TYP) SP2 **D**- SP1

 $\frac{\text{ELECTRICAL SITE PLAN}}{1" = 40'-0"}$ 

GENERAL NOTES:         1.       REFER TO SHEET EG001 FOR GENERAL ELECTRICAL NOTES.         2.       ALL EXTERIOR LIGHTING SHALL COMPLY WITH THE STANDARDS UNDER ARTICLE 8 OF THE CITY'S UNIFIED DEVELOPMENT ORDINANCE (UDO). MORE SPECIFICALLY, COMPLIANCE WITH THE LIGHTING STANDARDS OF UDO SECTIONS 8.220, 8.230, 8.250, 8.260 AND 8.270 SHALL TAKE PLACE AT THE TIME OF FINAL DEVELOPMENT PLAN.         ELECTRICAL PLAN NOTES:       2         ELECTRICAL PLAN NOTES:       2	HOEFER WELKER 4622 PENNSYLVANIA AVENUE SUITE 1400 KANSAS CITY, MO 64112 P: 913.307.3700 hoeferwelker.com Copyright © by hoefer welker, LLC
	Deckade 2 - CONSTRUCTION SET
FLECTRIC	PROFESSIONAL SEAL PROFESSIONAL SEAL ESUE DATE: NOVEMBER 7,2024 HOEFER WELKER #: 138191 AL SITE PLAN

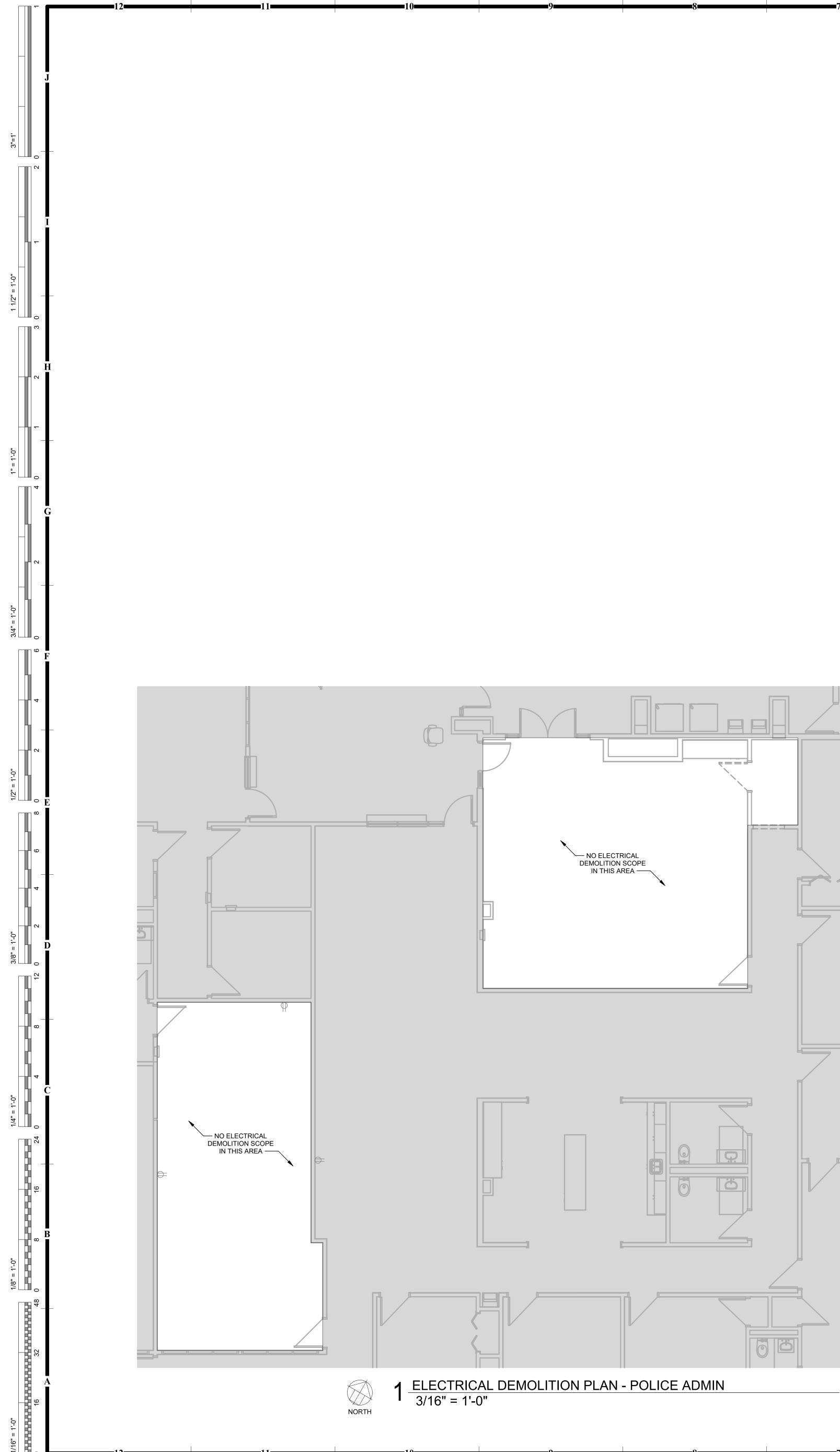


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# REFER TO SHEET EG001 FOR GENERAL PROTECT AND PREPARE TO REUSE

LOCATION WITH CITY AND REINSTALL EXISTING WALL PACKS SHALL REMAIN  $\prec$ 





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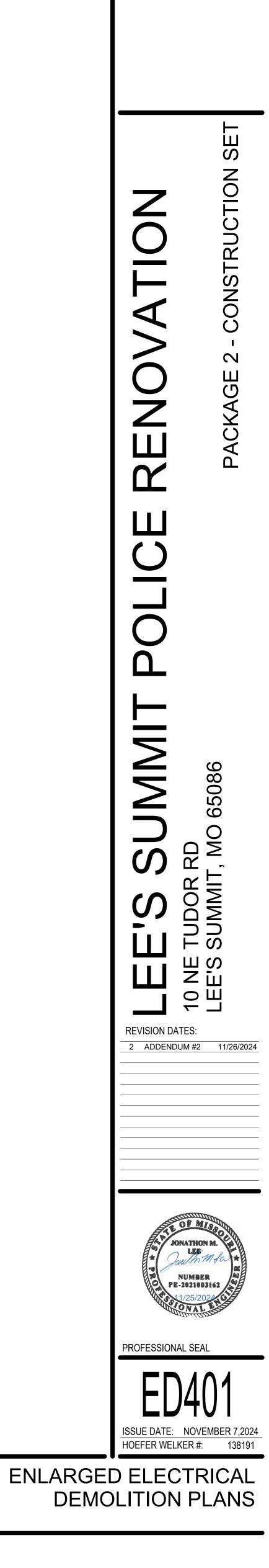


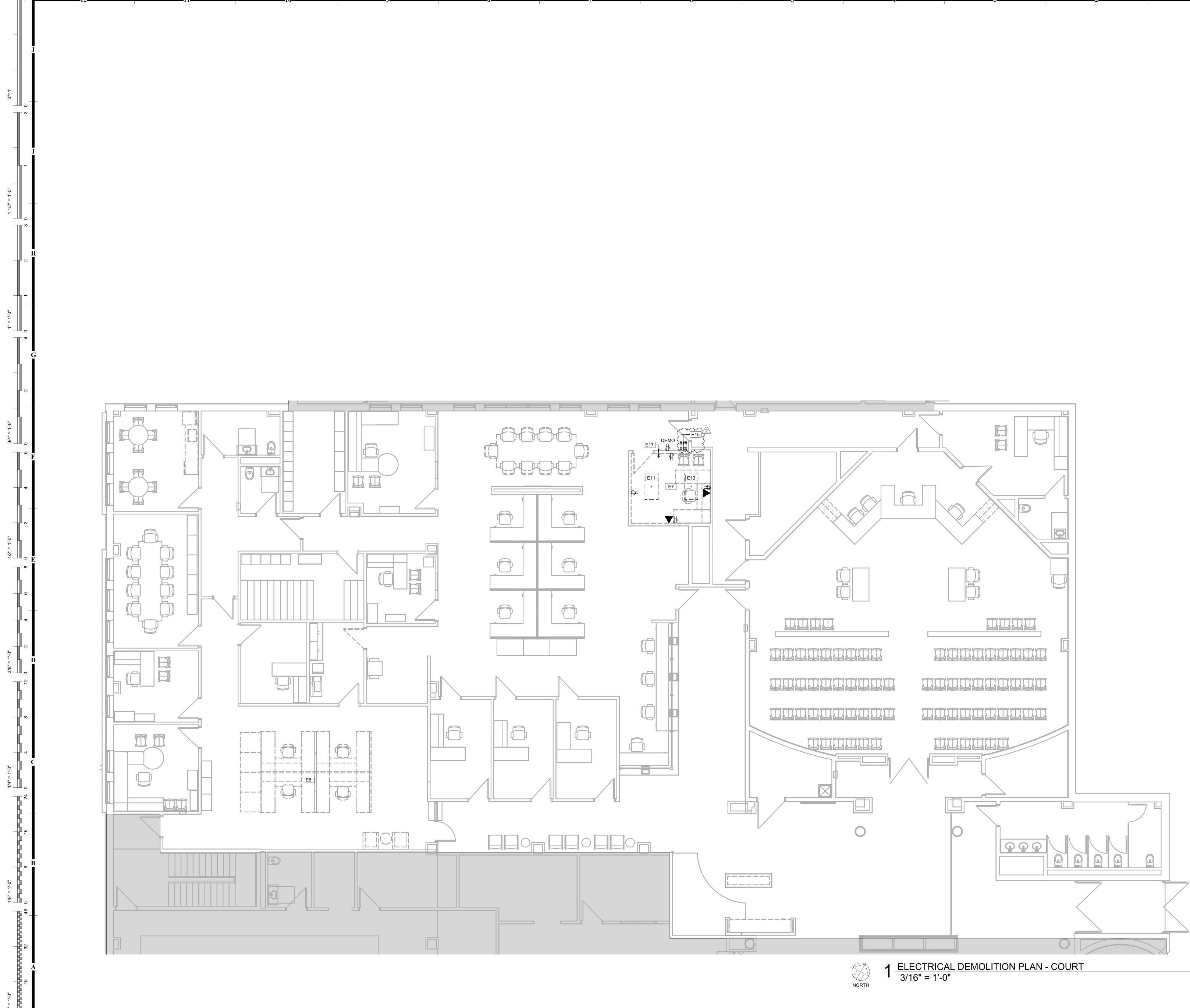
NORTH

# $\frac{2}{3/16"} = 1'-0"$

REFER TO SHEET EG001 FOR GENERAL ELECTRICAL NOTES.

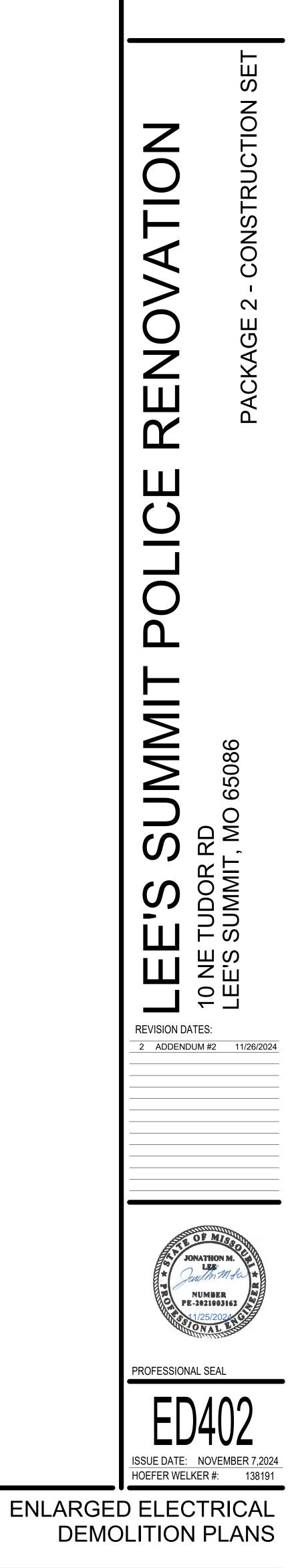
PROTECT EXISTING CIRCUIT TO BE CONTROLS. PROTECT AND PREPARE TO REUSE UNDER NEW WORK.

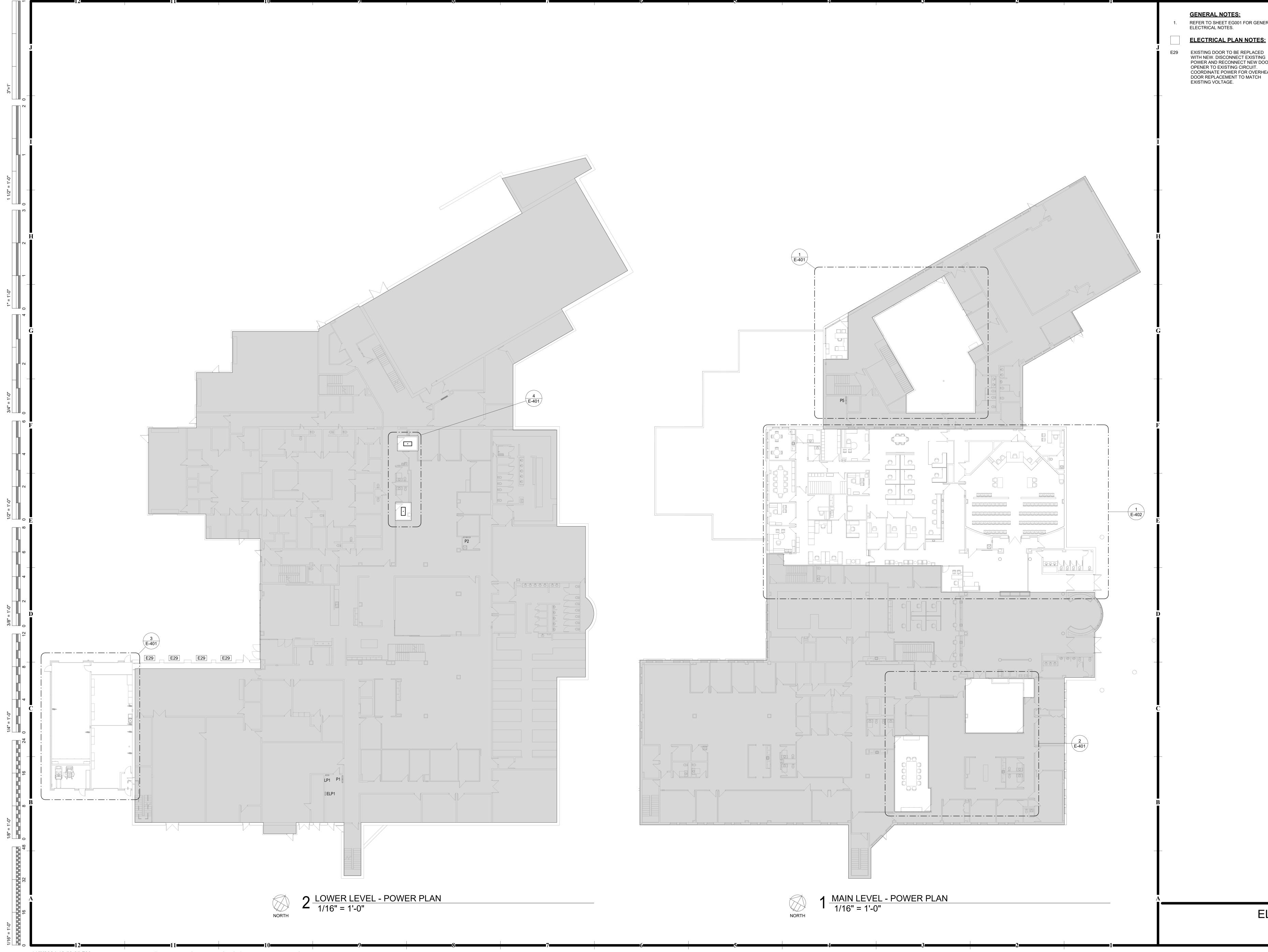




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<u>GENERAL NOTES:</u> REFER TO SHEET EG001 FOR GENERAL ELECTRICAL NOTES. ELECTRICAL PLAN NOTES: E6 DEMOLISH POWER POLE. PROTECT EXISTING CIRCUIT AND PREPARE TO CIRCUIT AND DATA CABLING AT NEW LOCATIONS. E7 DEMOLISH ELECTRICAL AND DATA IN WALL. PROTECT EXISTING CIRCUIT AND DATA CABLING AND PREPARE TO REUSE UNDER NEW WORK. E11 UNINSTALL EXISTING LIGHT FIXTURE. PROTECT AND PREPARE TO REUSE UNDER NEW WORK. E13 DEMOLISH EXISTING LIGHT FIXTURE. PROTECT EXISTING CIRCUIT TO BE 2 (E15 UNINSTALL EXISTING LIGHTING CONTROLS. PROTECT AND PREPARE TO REUSE UNDER NEW WORK. DEMOLISH EXISTING LIGHTING CONTROLS.





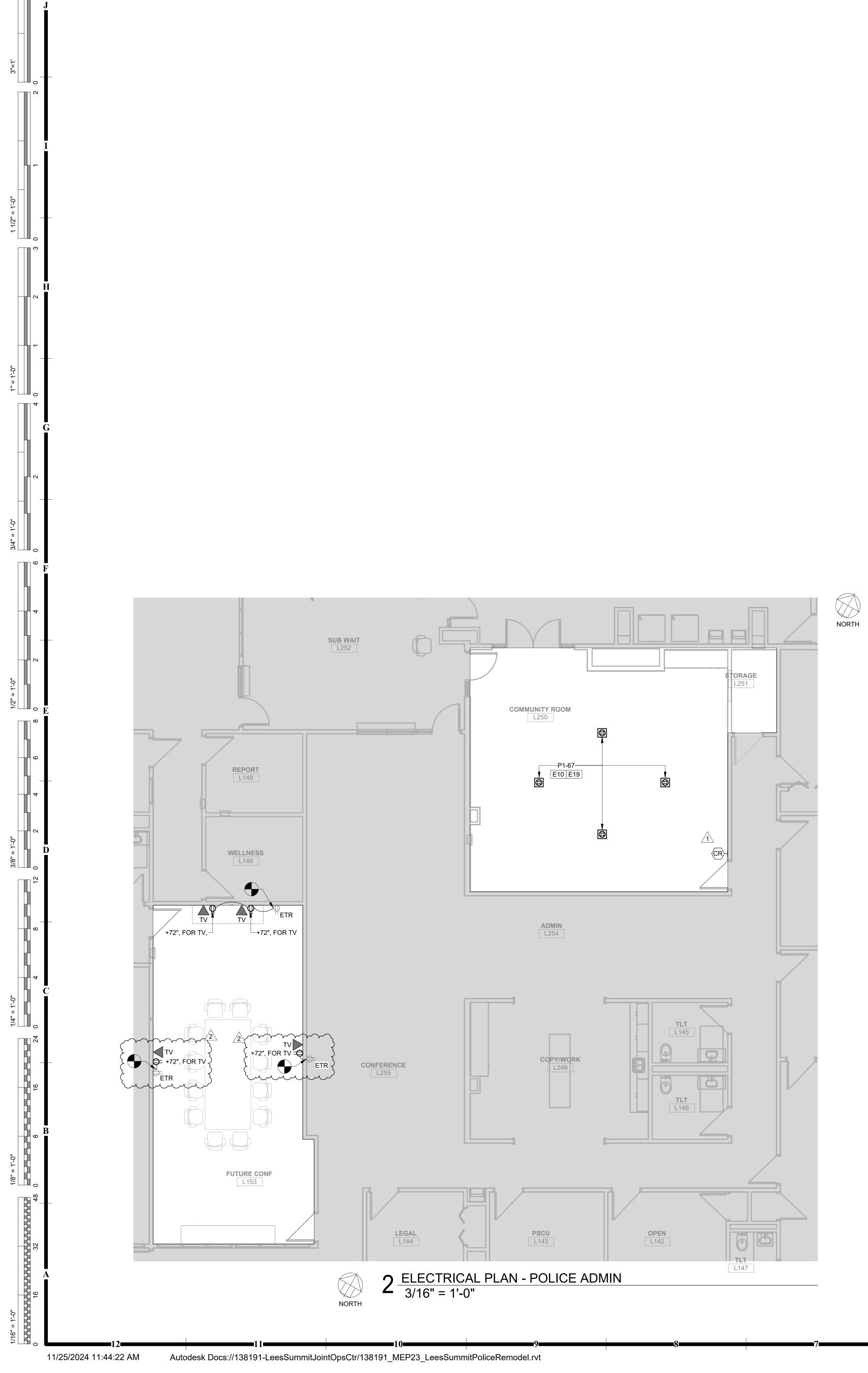
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E29 EXISTING DOOR TO BE REPLACED WITH NEW. DISCONNECT EXISTING POWER AND RECONNECT NEW DOOR OPENER TO EXISTING CIRCUIT. COORDINATE POWER FOR OVERHEAD DOOR REPLACEMENT TO MATCH EXISTING VOLTAGE.

REFER TO SHEET EG001 FOR GENERAL ELECTRICAL NOTES.

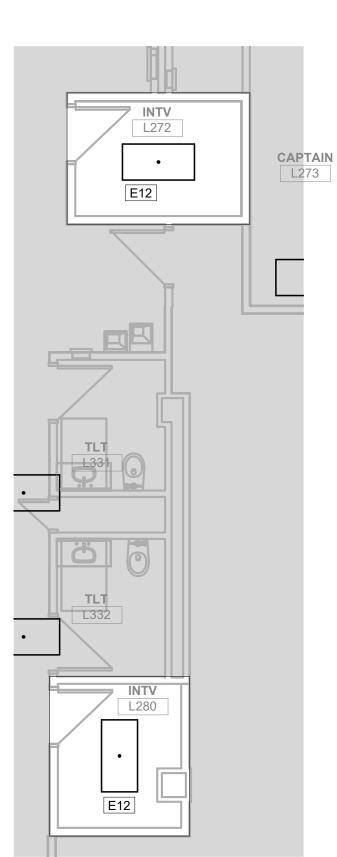








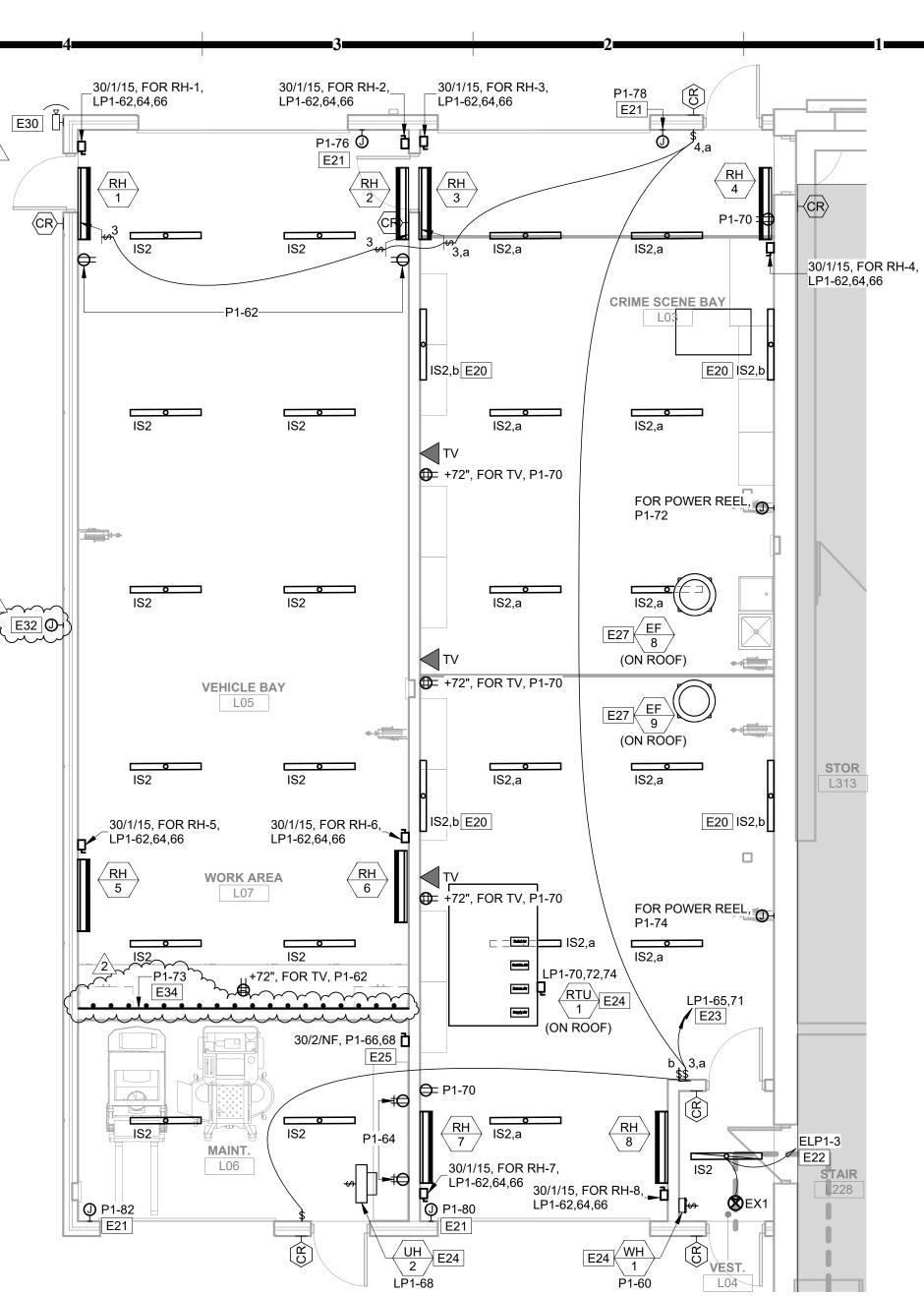
# $4 \frac{\text{ELECTRICAL PLAN - INTERVIEW ROOMS}}{3/16" = 1'-0"}$



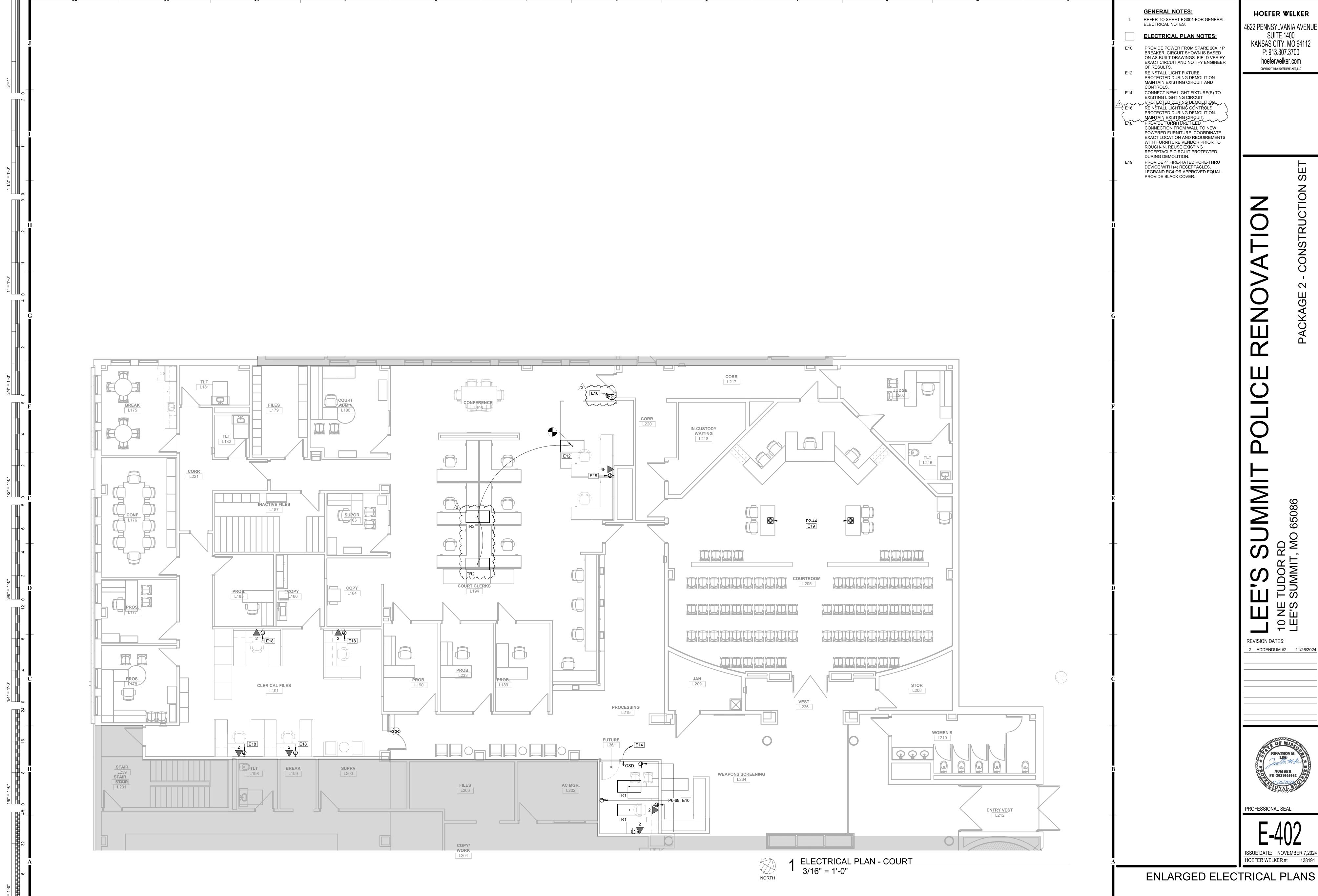


# $\frac{1}{3/16"} = 1'-0"$

NORTH



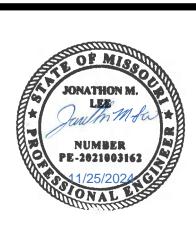
GENERAL NOTES: REFER TO SHEET EG001 FOR GENERAL ELECTRICAL NOTES. ELECTRICAL PLAN NOTES: CONNECT TO EXISTING LIGHTING CIRCUIT AND CONTROLS. OVERALL LIGHTING POWER IS REDUCED EVEN WITH NEW LIGHTING. PROVIDE POWER FROM SPARE 20A, 1P BREAKER. CIRCUIT SHOWN IS BASED ON AS-BUILT DRAWINGS EVEL D VERIEY	HOEFER WELKER 4622 PENNSYLVANIA AVENUE SUITE 1400 KANSAS CITY, MO 64112 P: 913.307.3700 hoeferwelker.com
ON AS-BUILT DRAWINGS. FIELD VERIFY EXACT CIRCUIT AND NOTIFY ENGINEER OF RESULTS. REINSTALL LIGHT FIXTURE PROTECTED DURING DEMOLITION. MAINTAIN EXISTING CIRCUIT AND CONTROLS. CONNECT NEW LIGHT FIXTURE(S) TO EXISTING LIGHTING CIRCUIT PROTECTED DURING DEMOLITION. REINSTALL LIGHTING CONTROLS PROTECTED DURING DEMOLITION. MAINTAIN EXISTING CIRCUIT. PROVIDE 4" FIRE-RATED POKE-THRU DEVICE WITH (4) RECEPTACLES, LEGRAND RC4 OR APPROVED EQUAL. PROVIDE BLACK COVER. WALL MOUNT LIGHT FIXTURE AT +72" AFF. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. PROVIDE POWER TO OVERHEAD DOOR OPENER. PROVIDE ROUGH-IN FOR DOOR CONTROLS. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS OF OPENER WITH VENDOR'S INSTALLATION INSTRUCTIONS. COORDINATE EXACT LOCATION OR CONTROLS WITH ARCHITECT PRIOR TO ROUGH-IN. PROVIDE POWER FROM EXISTING LIFE SAFETY LIGHTING CIRCUIT IN ADJACENT VEHICLE BAYS. CIRCUIT SHOWN IS BASED ON AS-BUILT DRAWINGS. FIELD VERIFY EXACT CIRCUIT AND NOTIFY ENGINEER OF RESULTS. PROVIDE POWER FROM EXISTING NORMAL LIGHTING CIRCUIT IN ADJACENT VEHICLE BAYS. CIRCUIT SHOWN IS BASED ON AS-BUILT DRAWINGS. FIELD VERIFY EXACT CIRCUIT AND NOTIFY ENGINEER OF RESULTS. PROVIDE POWER TO DIVISION 23 EQUIPMENT WITH FACTORY MOUNTED DISCONNECT. COORDINATE EXACT CIRCUIT AND NOTIFY ENGINEER OF RESULTS. PROVIDE POWER TO DIVISION 23 EQUIPMENT WITH FACTORY MOUNTED DISCONNECT. COORDINATE EXACT CIRCUIT AND NOTIFY ENGINEER OF RESULTS. PROVIDE POWER TO AIR COMPRESSOR. INFORMATION SHOWN IS BASED ON 3.5HP COMPRESSOR. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH DIVISION 22 PRIOR TO ROUGH-IN. CONNECT NEW ROOF-MOUNTED EXHAUST FAN TO EXISTING EXHAUST FAN CIRCUIT. EXHAUST FAN IS A ONE-FOR-ONE REPLACEMENT OF EXISTING FAN REMOVED DURING DEMOLITION. REMOVE EXISTING CAMERA ON EXISTING BUILDING EXTERIOR AND EXISTING AULLE BUNCATION SHOWN IS BASED ON ASHD REDUCATED	ICE RENOVATION PACKAGE 2 - CONSTRUCTION SET
VACUUM. PROVIDE BOXES, CONDUIT, AND WIRING AS NECESSARY TO EXTEND EXISTING CIRCUIT TO NEW LOCATION. PROVIDE LEGRAND 2000 SERIES PLUGMOLD OR APPROVED EQUAL. RECEPTACLES SHALL BE SPACED AT 12" O.C. MOUNT ABOVE WORKTOP.	JOG       98029         98029       98029         0       0 <t< th=""></t<>
	PROFESSIONAL SEAL
ENLARGED ELEC	ISSUE DATE: NOVEMBER 7,2024 HOEFER WELKER #: 138191



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HOEFER WELKER REFER TO SHEET EG001 FOR GENERAL 4622 PENNSYLVANIA AVENUE **SUITE 1400** ELECTRICAL PLAN NOTES: KANSAS CITY, MO 64112 P: 913.307.3700 BREAKER. CIRCUIT SHOWN IS BASED ON AS-BUILT DRAWINGS. FIELD VERIFY hoeferwelker.com EXACT CIRCUIT AND NOTIFY ENGINEER COPYRIGHT © BY HOEFER WELKER, LLC PROTECTED DURING DEMOLITION. MAINTAIN EXISTING CIRCUIT AND PROTECTED DURING DEMOLITION. CONNECTION FROM WALL TO NEW POWERED FURNITURE. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH FURNITURE VENDOR PRIOR TO RECEPTACLE CIRCUIT PROTECTED PROVIDE 4" FIRE-RATED POKE-THRU Ш LEGRAND RC4 OR APPROVED EQUAL. S Ζ RUC<sup>-</sup> SNO  $\mathbf{O}$  $\sim$ Ш C ¥  $\bigcirc$ A MMC 65086 N MO T, MO Ш

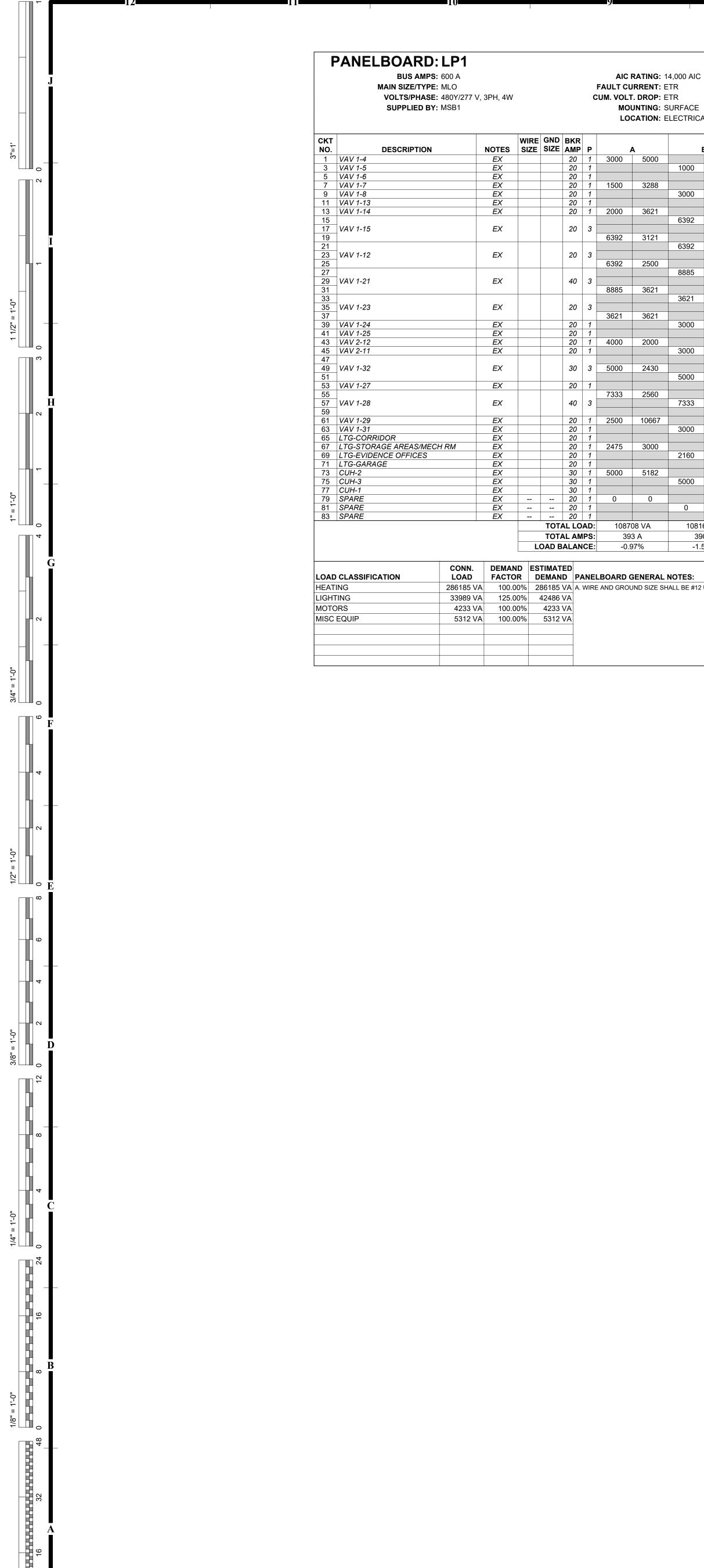


2 ADDENDUM #2 11/26/2024

**REVISION DATES:** 

PROFESSIONAL SEAL

E-402 ISSUE DATE: NOVEMBER 7,2024 HOEFER WELKER #: 138191



	BUS AMPS: 22 MAIN SIZE/TYPE: M VOLTS/PHASE: 20 SUPPLIED BY: NI	LO )8Y/120 V, 3	3PH, 4W				FAULT CU CUM. VOLT MO	T. DROP: E UNTING: S	TR	AL SWITCH	IGEAR							
CKT NO.	DESCRIPTION		NOTES		E GND	BKR AMP P		4	F	3		C	Р		GND SIZE	NOTES	DESCRIPTION	Ch
	RCPT-STORAGE & EXTERIOR		EX	0.2.		20 1	-	900	-				1	20		EX	RCPT-OFFICES	
	RCPT-VEHICLE PROCESSING		ΕX			20 1			900	1080			1	20		ΕX	RCPT-OFFICES	
5	RCPT-VEHICLE PROCESSING		ΕX			20 1					720	1200	1	20		EX	FURN J BOX - INVEST SGT	
	RCPT-EXTERIOR		ΕX			20 1	1080	1200					1	20		EX	FURN J BOX - INVEST SGT	
	GARAGE DOOR		ΕX			20 1			1176	1080			1	20		EX	RCPT-SIU CAPTAIN/CLERICAL	
	GARAGE DOOR		EX			20 1					1176	540	1	20		EX	FURN J BOX - SIU CLERICAL	· ·
	GARAGE DOOR		EX			20 1	1176	540					1	20		 EX	FURN J BOX - SIU CLERICAL	
-	GARAGE DOOR	_	EX			20 1			1176	1260			1	20		 EX	RCPT-INTERV	· ·
	RCPT-EVIDENCE OFFICE/VEST	F	EX			20 1					900	1200	1	20		 EX	FURN J BOX - WORK ROOM	
	RCPT-EVIDENCE WORKROOM	2222	EX		_	20 1	720	1200	000	4000			1	20	+ +	 EX	FURN J BOX - WORK ROOM	
	RCPT-FORENSICS/EVIDENCE	-RUC	EX		_	20 1			900	1200	700	4000	1	20	+	 EX	FURN J BOX - WORK ROOM	
	RCPT-MECH ROOM COUNTER		EX			20 1	1000	4000			720	1200	1	20		 EX	FURN J BOX - WORK ROOM	
	RCPT-INTERV/COPY ROOM		EX EX			20 1	1260	1200	400	400			1	20	+ +	 EX EX	FURN J BOX - WORK ROOM	
	RCPT-DRINKING FOUNTAIN RCPT-DARE-CHAPLIN/PLT LT		EX EX			20 1			400	180	1260	864	1	20		 EX	RCPT-SIU DET, BREAK ROOM RCPT-SIU DET, BREAK RM REF	
	ELEVATOR PIT EQUIPMENT		EX EX			20 1 20 1	400	1100			1200	004	1	20 20		 EX EX	RCP-DRINKING FTN, CLSTS	
	RCPT-INTERV		EX			20 1	400	1100	1080	540			1	20		 EX EX	FURN J BOX - CIU CLERICAL	
	RCPT-INTERV		EX			20 1			1000	540	1080	1080	1	20		 EX	FURN J BOX - CIU CLERICAL	
	SPARE		EX			20 1	0	1080			1000	1000	1	20		 EX	RCPT-CONFERENCE RM	
	GARBAGE DISPOSER		EX			20 1		1000	864	180			1	20		 EX	RCPT-DISPATCH CONSOLE	
	SPARE		EX			20 1			001	100	0	180	1	20		 EX	RCPT-DISPATCH CONSOLE	
	GARBAGE DISPOSER		EX			20 1	864	180				100	1	20		EX	RCPT-DISPATCH CONSOLE	
	GENERATOR BATTERY CHARG	SER	ΕX			20 1			1200	180			1	20		EX	RCPT-DISPATCH CONSOLE	
47	OFNEDATOD JACKET USATED		ΓV								1000	360	1	20		EX	EXT LGTS - BOLLARDS @ PATIO	
49	GENERATOR JACKET HEATER		EX			20 2	1000	760					1	20		EX	EXT LGTS - BLDG SIGN, PLAZA	
	SUMP PUMP (EXTERIOR)		ΕX			20 1			1920	720			1	20		EX	EXT LGTS - BOLLARDS SIDEWALK	
	COPIER		ΕX			20 1					1200	630	1	20		EX	EXT LGTS - FLAGPOLE	
	EF-9 & EF-8		EX			15 1	970	360					1	20		 EX	EXT LGTS - SIGN @ STREET	
	UNDERCABINET LTG-FORENSI	CS	EX			20 1			500	200			1	20		 EX	CARBON MONOXIDE SENSOR	
	EF-11 & RECIRC PUMP		EX			20 1					900	1500	1	20		 RB	UH-1 (VEHICLE BAY)	
	RCPT-PARAPET WALL		EX			20 1	500	720	0	000			1	20		 RB	RCPT - VEHICLE BAY L05	
	SPARE SPARE		EX			20 1 20 1			0	360	0	1664	1	20		 RB	RCPT - MAINT L06	
	RCPT-COMM RM L250		EX RB			20 1 20 1	1440	1664			0	1664	2	<b>〔20</b> 〕	2	NB	<b>PWR - MAINT AIR COMP</b>	
	SPARE		EX			20 1	1440	1004	0	1440			1	20		 RB	RCPT - CRIME SCENE BAY L03	
	PWR-SITE VIDEO BOARD		RB			20 1			0	1440	1200	1080	1	20		 RB	RCPT - CSB L03 POWER REEL N	
	RCPT-VEH BAY PLUGMOLD		RB			20 1	720	1080			1200	1000	1	20		RB	RCPT - CSB L03 POWER REEL S	
	SPARE		EX			20 1		1000	0	500			1	20		RB	PWR - VEH BAY DOOR OPENER	
	SPARE		EX			20 1					0	500	1	20		RB	PWR - CRIME SCENE OPENER N	
	EQUIPPED SPACE		EX			1		500					1	20		NB	<b>PWR - CRIME SCENE OPENER S</b>	
81	EQUIPPED SPACE		ΕX			1				500			1	20		NB	PWR - MAINT DOOR OPENER	
83	EQUIPPED SPACE		ΕX			1							1			 EX	EQUIPPED SPACE	
					тот	AL LOAD:	2387	'4 VA	1953	86 VA	2215	54 VA						
					тот	AL AMPS:	20	2 A	16	3 A	18	8 A						
					LOAD E	BALANCE	11.	17%	-10.	54%	3.2	9%						
		CONN.			STIMAT													
	CLASSIFICATION	LOAD	FACTO				LBOARD (										PANELBOARD TOTALS	
EATI		1500 VA	100.0	00%	1500	VA A. WIR	E AND GROL	JND SIZE SH	IALL BE #12	UNLESS OT	HERWISE NO	OTED.					TOTAL CONN. LOAD:	65564
IGHT	ING	3330 VA	125.0	00%	4163	VA											TOTAL EST. DEMAND LOAD:	5180
юто	RS	6432 VA	100.0	0%	6432	VA											TOTAL CONN. CURRENT:	1
	PTACLES	39784 VA	62.5		24892											т	OTAL EST. DEMAND CURRENT:	1
	EQUIP	13318 VA	100.0		13318													

Е				Р	BKR AMP	GND SIZE	WIRE SIZE	NOTES	B DESCRIPTION						
	·			1	20			EX	VAV 2-10	<b>NO</b> . 2					
	3288			-	20			ĽΛ		4					
	0200	4000	3288	3	20			EX	VAV 2-9	6					
										8					
	2500			1	20			ΕX	VAV 2-8	10					
		4000	3621							12					
				3	20			EX	VAV 2-17	14					
_	3621									16					
_		6392	3500	1	20			EX	VAV 2-16	18					
										20					
_	3121		0.10.1	3	20			EX	VAV 2-14	22					
_		6392	3121	4	00				1/41/ 0.45	24					
	2000			1	20			EX	VAV 2-15	26					
_	3000	8885	3621	1	20			EX	VAV 2-13	28					
		0000	3021	3	20			EX	VAV 2-7	30					
	3621			3	20			EA	VAV 2-7	32					
	5021	3621	3621	-						36					
_		0021	0021	3	20			EX	VAV 2-6	38					
	3621			Ŭ	20			ĽΛ		40					
	0021	3000	2000	1	20			EX	VAV 2-18	42					
				1	20			EX	VAV 2-19	44					
	4000			1	20			EX	VAV 2-41	46					
		5000	2400	1	20			EX	LTG-OFFICES	48					
				1	20			EX	LTG-CORRIDOR	50					
	2137			1	20			EX	LTG-CLERICAL/BREAK RM	52					
		4000	2560	1	20			EX	LTG-SIU WORKROOM	54					
				1	20			EX	LTG-CIU WORKROOM	56					
	2925			2	20			EX	LTG-EXTERIOR WEST PARKING LOT	- 58					
		7333	2925	2	20			LA		60					
										62					
_	10667		1000-	3	60	10	4	NB	PWR - VEH BAY RADIANT HTRS	64					
		2850	10667							66					
	5400			1	15			RB	UH-2 (VEHICLE BAY)	68					
_	5182	0700	E400		25	40	40		DTU 4	70					
_		2709	5182	3	25	10	10	NB	RTU-1	72					
_	2700			1	20			EX	ALTERNATE CKT FOR JAIL LTG	74					
_	2700	5000	3158	1	20			EX EX	ALTERNATE CKT FOR JAIL LTG	78					
		5000	5150	1	20			EX EX	SPARE	80					
	0			1	20			EX EX	SPARE	80					
	0	0	0	1	20			EX	SPARE	84					
_		-	45 VA	1				2/(							
316	5 \/A		10 1/1	-											
	5 VA		<b>9</b> Λ												
390	A	40	8 A	-											
390		40	8 A 0%												
390	A	40						1							
390	A	40													
390	A	40							PANELBOARD TOTALS						
390 1.5	) A 4%	40	0%							29719 VA					
390 1.5	) A 4%	40 2.8	0%						TOTAL CONN. LOAD: 3	29719 VA 38216 VA					
390 1.5	) A 4%	40 2.8	0%						TOTAL CONN. LOAD:3TOTAL EST. DEMAND LOAD:3	38216 VA					
390 1.5	) A 4%	40 2.8	0%	]					TOTAL CONN. LOAD: 3						

PANELBOARD NOTES: THIS IS A MASTER LIST THAT APPLIES TO ALL PANELBOARDS. NOT ALL NOTES MAY BE USED. AF ARC FAULT CIRCUIT INTERRUPTER (AFCI) ROUTE CIRCUIT THROUGH CONTACTOR #. EMERGENCY LIGHTING HANDLE ON CLAMP. EXISTING TO REMAIN. FIRE ALARM CIRCUIT. RED HANDLE, HANDLE GROUND FAULT CIRCUIT INTERRUPTER (GFCI) HT# PROVIDE HANDLE TIES TO COMPLY WITH NEC 210.4(B). # INDICATES GROUPING (I.E. GROUP HANDLE PADLOCKABLE OFF DEVICE. PROVIDE NEW BREAKER IN EXISTING PANELBOARD. AIC RATING OF NEW BREAKER SHALL MATCH THE PANELBOARD AIC RATING. TB# TANDEM 20A BREAKER. # INDICATES REFER TO ONE-LINE DIAGRAM FOR FEEDER RB REUSE EXISTING BREAKER TO SERVE NEW

BREAKER.

ON CLAMP.

BREAKER.

GROUPING.

LOAD.

INFORMATION.

SD SPARE BREAKER AFTER DEMOLITION.

1 TOGÉTHER, ETC.).

HANDLE ON CLAMP.

C#

EM

EX

FA

GF

LO

NB

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