

# WOODHOUSE BLAIR — DETAIL & ACCESSORY BAY

PERMIT NO: 00-2024-00061

ADDRESS 2175 S Hwy 30

2171 S HWY 30  
SUITE 101  
BLAIR, NEBRASKA

CONSULTANTS:  
**ARCHITECTURAL:**  
GRID ARCHITECTURE, LLC  
2645 N 165 ST  
OMAHA, NE 68116  
TEL: (402) 960-6625  
FAX: (866) 443-7821

**STRUCTURAL:**  
PERFORMANCE ENGINEERING  
11811 FORT ST, SUITE 104  
OMAHA, NE 68164  
TEL: (402) 343-9630

**MECHANICAL ELECTRICAL & PLUMBING:**  
MORRISSEY ENGINEERING  
4940 N 118TH ST  
OMAHA, NE 68164  
TEL: (402) 491-4144

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CODE INFORMATION:

REFERENCE CODES: CITY OF BLAIR  
INTERNATIONAL BUILDING CODE (IBC) — 2018 EDITION  
INTERNATIONAL ENERGY CONSERVATION CODE (IECC) — 2018 EDITION  
INTERNATIONAL EXISTING BUILDING CODE (IEBC) — 2018 EDITION  
INTERNATIONAL FIRE CODE (IFC) — 2018 EDITION  
INTERNATIONAL MECHANICAL FUEL & GAS CODE (IFGC) — 2018 EDITION  
INTERNATIONAL PLUMBING CODE (IPC) — 2018 EDITION  
INTERNATIONAL PROPERTY MAINTENANCE CODE — 2018 EDITION  
NATIONAL ELECTRICAL CODE (NEC) — 2017 EDITION  
LIFE SAFETY CODE — 2012 EDITION

CHAPTER 3 — USE & OCCUPANCY CLASSIFICATION:  
301.2 — S-1 OCCUPANCY — CAR DETAILING

CHAPTER 5 — GENERAL BUILDING HEIGHTS AND AREAS:  
TABLE 502.1 — ALLOWABLE HEIGHT:  
55'-0" (MAX.) HEIGHT (5 OCCUPANCY, TYPE IIB CONSTRUCTION) (15'-0 5/8" — MAX PROVIDED)

TABLE 502.2 — ALLOWABLE STORES ABOVE GRADE:  
S-1 — 2 STORIES (15')  
PROVIDED: 1 STORY

TABLE 506.2 — ALLOWABLE BUILDING AREA:  
S-1 — 17,500 S.F. (NS, TYPE IIB)  
PROVIDED: 8,000 S.F.

LOW SLOPE OF EAVE = 17'-0"  
TOP OF RIDGE = 18'-0 5/8" (1/4:12 SLOPE)

NO SEPARATION REQUIRED AS OFFICE, RESTROOMS AND BREAK ROOM ARE ACCESSORY SPACES TO THE MAIN USE. IT IS ALSO UNDER 10% OF TOTAL AT 556 S.F. OF 8,000 S.F.

CHAPTER 6 — TYPES OF CONSTRUCTION:  
602.2 — TYPE IIB CONSTRUCTION CLASSIFICATION  
603.1 — LISTS COMBUSTIBLE MATERIALS ALLOWED IN TYPE I CONSTRUCTION.

CHAPTER 8 — FIRE PROTECTION SYSTEMS:  
FIRE SPRINKLER NOT REQUIRED OR PROVIDED  
PER IBC 903.2.9  
FIRE AREA DOES NOT EXCEED 12,000 S.F. ON EXIT LEVEL OF DISCHARGE, NOT USED FOR COMMERCIAL VEHICLE STORAGE OR REPAIR.

DEE ALARM NOT REQUIRED & NOT PROVIDED

CHAPTER 10 — MEANS OF EGRESS:  
SECTION 1004.5 — OCCUPANT LOAD:  
TOTAL AREA: 100' X 80' = 8,000 S.F.  
OFFICE, BREAK RM RESTROOMS: 556 S.F.:  
556 / 100 = 6 PEOPLE  
CAR WASH, DETAILING & UNDERCARRIAGE AREA: 7,434 S.F. / 100 = 75 PEOPLE

TOTAL OCCUPANTS: 81 PEOPLE

SECTION 1003 — EXITS REQUIRED:  
2 EXITS REQUIRED  
AND 4 PROVIDED

TABLE 1006.3.2 — EGRESS WIDTH PER OCCUPANT:  
OTHER EGRESS COMPONENTS, WITHOUT SPRINKLER SYSTEM:  
0.2 INCHES WIDTH PER OCCUPANT  
REQUIRED: 81 \* .2 = 16.2"  
PROVIDED: 36" EACH DOOR \* 4 DOORS = 144"

IBC 1008.2.1 — COMMON PATH OF EGRESS TRAVEL DISTANCE:  
S = 75 FEET

1009.1 — ACCESSIBLE MEANS OF EGRESS  
1 ACCESSIBLE MEANS OF EGRESS REQUIRED, 1 PROVIDED.

1012.2 EXIT ACCESS TRAVEL DISTANCE:  
S = 200'-0" MAXIMUM W/O SPRINKLER SYSTEM

PLUMBING FIXTURE REQUIREMENTS:  
2018 INTERNATIONAL PLUMBING CODE:  
OFFICE, BREAK RM: 242 / 150 = 2 PEOPLE:  
DETAILING / UNDERCARRIAGE AREA: 7,434 / 100 = 75 PEOPLE  
TOTAL OCCUPANTS FOR PLUMBING: 77 PEOPLE

77 / 2 = 38 PER GENDER

PER INTERNATIONAL PLUMBING CODE 2018 — TABLE 403.1 AND 403.2:  
FACTORY & INDUSTRIAL:  
WC = 1 PER 100, LAV = 1 PER 100.

RESTROOMS REQUIRED:  
MEN: 1 WC, 1 UR, 1 LAV  
WOMEN: 1 WC, 1 LAV

RESTROOMS PROVIDED:  
MEN: 2 WC, 1 UR, 1 LAV  
WOMEN: 2 WC, 1 LAV

1 H/LD DRINKING FOUNTAIN PROVIDED ( 1 PER 400)

1 SERVICE SINK REQUIRED & PROVIDED

PORTABLE FIRE EXTINGUISHERS SHALL BE INSTALLED, MAINTAINED AND INSPECTED PER IFC 906. PROVIDE AS REQUIRED BY FIRE MARSHALL.

SEE SCHEDULES FOR FIRE EXT. TYPE

ABBREVIATIONS:

AB	ANCHOR BOLT	D	DOWN	G	GROUT	MISC	MISCELLANEOUS	S	SOUTH
AC	ACOUSTICAL CEILING	DET	DETAIL	GA	GAUGE	MO	MASONRY OPENING	SC	SOLID CORE
AW	WALLCOVERING	DIA	DIAMETER	GALV	GALVANIZED	M/R	MOISTURE RESISTANT	SCHED	SCHEDULE
ACOUS	ACOUSTICAL-	DIFF	DIFFUSER	GB	GRAB BAR	M/D	MOUNTED	SD	SOAP DISPENSER
ADJ	ADJUSTABLE	DIM	DIMENSION	GEN	GENERATOR	M/G	MEETING, MOUNTING	SECT	SECTION
AL	ALUMINUM	DSP	DISPENSER	GL	GLASS	M/L	MULLION	SF	SQUARE FEET
ALUM	ALUMINUM	DO	DOOR OPENING	GND, GRND	GROUND	MUL	MULLION	SH	SHELF
ALT	ALTERNATE	DR	DOOR	GWB	GYPSPUM WALLBOARD	N	NORTH	SHT	SHEET
AP	ACCESS PANEL	DWG(S)	DRAWING, DRAWINGS	GYP	GYPSPUM	NEO	NEOPRENE	SM	SIMILAR
APPRX	APPROXIMATE	DWR	DRAWING, DRAWINGS	HC	HANDICAPPED	NC	NOT IN CONTRACT	SL	SLOING
ARCH	ARCHITECTURAL	E	EAST	HO	HOSE	NO	NUMBER	SPEC	SPECIFICATION
AW	AWNING FABRIC	EA	EXTERIOR INSULATION	HD	HEAD	NOM	NOMINAL	SQ	SQUARE
B	BASE	EFS	EXTERIOR FINISH SYSTEM	HW	HARDWARE	NTS	NOT TO SCALE	SST	STAINLESS STEEL
BD	BOARD	EJ	EXPANSION JOINT	HWNR	HARDWOOD	OA	OVERALL	ST	STAIN
BLDG	BUILDING	ELEV	ELEVATION	HWZ	HOLLOW METAL	OBS	OBSCURE	STD	STANDARD
BLK	BLOCK	EL, ELEV	ELECTRIC, ELECTRICAL	HR	HOUR	OC	ON CENTER	STL	STEEL
BM	BEAM	ELEC	ELECTRIC, ELECTRICAL	HRZ	HORIZONTAL	OD	OUTSIDE DIAMETER	STOR	STORAGE
BOT	BOTTOM	ELEV	ELEVATOR	HT	HEIGHT	OFF	OFFICE	STRUCT	STRUCTURAL
CAB	CABINET	EMER	EMERGENCY	HTV	HEIGHT, VENTILATING, AIR	OPNG	OPENING	SUSP	SUSPENSION
CB	CONCRETE BLOCK	ENCLOS	ENCLOSURE	HVAC	HVAC	OPNG	OPENING	SYM	SYMMETRICAL
CC	CENTER TO CENTER	EQUIP	EQUIPMENT	ID	INSIDE DIAMETER	OPP	OPPOSITE	T	TILE
CEM	CEMENT	EWIC	ELECTRIC WATER COOLER	IN	INCH	P	PAINT	TEL	TELEPHONE
CEM	CERAMIC	EXH	EXHAUST	INSUL	INSULATION	PEBMM	PRE-ENGINEERED METAL BUILDING MANUFACTURER	TEMP	TEMPERED
CF	CONCRETE FINISH	EXIST	EXISTING	INT	INTERIOR	PL	PLATE	THK	THICK
CG	CORNER GUARD	EXP	EXPOSITION, EXPOSED	JAN	JANITOR	P. LAM. PL-	PLASTIC LAMINATE	TOS	TOP OF STEEL
CJ	CONTROL JOINT	EXT	EXTERIOR	JST	JOIST	PP	PRE-FINISHED PANELS	TOW	TOP OF WALL
CKT	ORCUT	FA	FIRE ALARM	JT	JOINT	PLYND	PLYWOOD	TT	TOILET TISSUE DISPENSER
CL	CLOSET	FB	FLAT BAR	JST	JOIST	PNL	PANEL, PANELBOARD	TYP	TYPICAL
CLG	CALLING	FC	FACE OF FINISH	JT	JOINT	PP	PRE-FINISHED PANELS	UNF	UNFINISHED
CLG, CEL	CEILING	FD	FACE OF STUDS	KIT	KITCHEN	PR	PAPER TOWEL DISPENSER	UNF	UNFINISHED UNLESS OTHERWISE NOTED
CLR	CLEAR	FEN	FIXTURE	KP	KICK PLATE	PROJ	PROJECT	VGT	VINYL COMPOSITION TILE
CMU	CONCRETE MASONRY UNIT	FE	FIRE EXTINGUISHER	LAM	LAMINATE, LAMINATED	PROP	PROPERTY	VERT	VERTICAL
COL	COLUMN	FE	FIRE EXTINGUISHER CABINET	LAV	LAVATORY	P.T.	PRESSURE TREATED	VEST	VESTIBULE
COND	CONSTRUCTION	FIN	FINISH	LGT	LIGHT	PTD	PAPER TOWEL DISPENSER	VNC	VINYL WALLCOVERING
CONSTR	CONSTRUCTION	FIX, FIXT	FIXTURE	M	MOLDING	PTN	PARTITION	W	WEST
CONT	CONTINUOUS	FL, FLR	FLOOR	MACH	MACHINE	PWR	POWER	W/	WITH
CORR	CORRIDOR	FLUR	FLASHING	MATL	MATERIAL	QT	QUARRY TILE	WC	WATER CLOSET
CPT, C	CERAMIC TILE	FOC	FACE OF CONCRETE	MAX	MAXIMUM	QTY	QUANTITY	WD	WOOD
CTR	CENTER	FOS	FACE OF STUDS	MECH	MECHANICAL	R	RISER	WID	WOOD FLOOR
		FOW	FACE OF WALL	MEMB	MEMBRANE	RO	ROOF	W/O	WITHOUT
		FR	FIRE RATED/RETARDANT	MET, MTL	METAL	REFL	REFLECTED	WP	WATERPROOF
		FRP	FIBERGLASS REINFORCED POLYESTER PANEL	MFR	MANUFACTURER	REIN	REINFORCED	WR	WATER RESISTANT
		FRTW	FIRE RETARDANT TRTD. WD.	MH	MANHOLE	REQ, REQD	REQUIRED	WT	WEIGHT
		FT	FOOT, FEET	MN	MINIMUM	RESL	RESILIENT FLOORING		
		FURR	FURRING	MIR	MIRROR	RF	ROUGH OPENING		
						RL	RAIN WATER LEADER		

CODE INFORMATION:

REFERENCE CODES: STATE FIRE MARSHALL:  
NFPA 101 — 2012 EDITION

OCCUPANCY:  
SPECIAL USE INDUSTRIAL — LSC — 401.2.1.2  
FIRE ALARM NOT REQUIRED — LSC 403.4. AS OCCUPANT LOAD DOES NOT EXCEED 100 PEOPLE (81 PEOPLE)

SPRINKLER SYSTEM NOT REQUIRED FOR REPAIR GARAGE:  
NFPA 30A, 2.4.6.8 — AS DOES NOT EXCEED 12,000 S.F. AND ON EXIT LEVEL OF DISCHARGE ( SINGLE STORY — 8,000 S.F. PROVIDED)

NO HIGH PILED STORAGE

NO HIGH HAZARD OPERATIONS THAT INCLUDE SPRAY PAINTING USING FLAMMABLE LIQUIDS OR WELDING.

IFCC 2018:  
SECTION 402.5.2:  
EXEMPT FROM VESTIBULE REQUIREMENT AS THESE DOORS ARE NOT INTENDED TO BE USED BY THE PUBLIC — SOLELY FOR EMPLOYEES ONLY.

COMMERCIAL MOTOR VEHICLES ARE NOT STORED OR REPAIRED IN THIS BUILDING.  
COMMERCIAL VEHICLES: A VEHICLE THAT HAS A GROSS VEHICLE WEIGHT OF 10,000 LBS OR MORE AND IS DESIGNED TO TRANSPORT 16 OR MORE PASSENGERS INCLUDING THE DRIVER.

LIST OF MATERIALS USED IN FACILITY:

THE FOLLOWING MATERIAL LIST WAS PROVIDED TO THE STATE FIRE MARSHALL AND THEY CONCURRED THAT THE MATERIAL DID NOT FALL UNDER THE HIGH HAZARD CATEGORY. THEY ALSO CONCURRED THAT THESE DID NOT NEED A ONE HOUR SEPARATION FOR STORAGE AS THEY PRESENTED THE SAME HAZARD AS THE REST OF THE FACILITY.  
VALUQUARD UNDOING — PROTECTIVE COATING  
RUST INHIBITOR COATING  
BRUTE ALUMINE CLEANER  
HEAVY DUTY DEGREASER  
MIRACLE MIST — MULTI-PURPOSE POLISH  
FABRIC PROTECTOR  
AMMONIA  
LIME IT — CAR WASH LIQUID SOAP  
CERAMIC WASH & COAT  
CAR BRITE — GLASS CLEANER  
SPOT PRO CARPET CLEANER

GENERAL NOTES:

- THE USE OF THESE DOCUMENTS IS RESTRICTED TO THE ORIGINAL PROJECT FOR WHICH THEY WERE PREPARED. REUSE OR REPRODUCTION OF THE DOCUMENTS, (WHOLE OR IN PART), FOR ANY OTHER PURPOSE IS PROHIBITED. TITLE TO THESE DOCUMENTS REMAINS WITH THE ARCHITECT. VISUAL CONTACT WITH THESE DOCUMENTS IS PRIMA FACE EVIDENCE OF THE ACCEPTANCE OF THESE SPECIFICATIONS.
- THE GENERAL CONTRACTOR IS TO VERIFY ALL DIMENSIONS AND FIELD CONDITIONS WITH THE DRAWINGS PRIOR TO CONSTRUCTION & BIDDING. IN PARTICULAR: OVERALL WALL DIMENSIONS, CEILING HEIGHTS, ELECTRICAL REQUIREMENTS, CLEARANCES FOR DUCTWORK, HVAC EQUIPMENT, SPRINKLER LINES AND MAINS, ROOF DOWNSPOUTS, ELECTRICAL EQUIPMENT OR OTHER OBSTRUCTIONS WHICH COULD CAUSE CONFLICTS WITH CONSTRUCTION. GENERAL CONTRACTOR IS TO REPORT IMMEDIATELY TO THE ARCHITECT AND OWNER ANY VARIANCES, ERROR, INCONSISTENCY, OR OMISSION HE MAY DISCOVER. VARIATION FROM THE DRAWINGS WITHOUT APPROVAL OF THE ARCHITECT AND/OR FAILURE TO REPORT ERRORS, OMISSIONS, OR INCONSISTENCIES TO THE ARCHITECT AND TENANT SHALL PLACE FULL RESPONSIBILITY, FOR ANY PROBLEMS, CHANGES, ETC. DIRECTLY UPON THE CONTRACTOR, INCLUDING BUT NOT LIMITED TO ALL COSTS.
- THE GENERAL CONTRACTOR IS TO GUARANTEE ALL WORK INCLUDING WORK DONE BY SUBCONTRACTORS FOR A PERIOD OF ONE (1) YEAR COMMENCING WITH THE DATE OF TOTAL COMPLETION OF THE WORK.
- ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH ALL GOVERNING CODES, ORDINANCES AND AUTHORITIES HAVING JURISDICTION.
- ALL MATERIAL SPECIFIED IS TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND SPECIFICATIONS. GENERAL CONTRACTOR IS TO CONSTRUCT PROJECT IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS. ANY DEVIATION FROM THE INTENT OF THE CONSTRUCTION DOCUMENTS, WITHOUT OWNER'S APPROVAL, ARE AT THE CONTRACTOR'S OWN RISK AND MAY RESULT IN THE WORK BEING DONE OVER AT CONTRACTOR'S EXPENSE, (MATERIALS AND LABOR).
- DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS.
- GRID ARCHITECTURE, LLC, SHALL NOT BE RESPONSIBLE OR HAVE CONTROL OVER THE CONSTRUCTION SEQUENCING, PROCEDURES, OR THE SAFETY PRECAUTIONS AND PROGRAMS OF THE CONTRACTOR, SUBCONTRACTOR, OR ANY OTHER PERSONS PERFORMING WORK ON THE PROJECT.
- GENERAL CONTRACTOR SHALL PROVIDE ALL NECESSARY AND MISCELLANEOUS ITEMS FOR ALL BUILDING SYSTEMS TO BE 100% COMPLETE AND FULLY OPERATIONAL AS PER TENANT'S REQUIREMENTS, LOCAL CODE, AND DESIGN INTENT.
- SHOP DRAWINGS, SPECIFICATIONS, DOCUMENTS, ETC. SHALL BE SUBMITTED TO THE ARCHITECT/ TENANT FOR APPROVAL PRIOR TO THE FABRICATION OF ANY ITEM. FAILURE TO ADHERE TO THIS PROCEDURE SHALL PLACE FULL RESPONSIBILITY FOR ANY ERRORS DIRECTLY UPON THE CONTRACTOR. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT/TENANT FOURTEEN DAYS AFTER SIGNING CONTRACT.
- ALL SUBCONTRACTORS SHALL SUPPLY, ERECT, ASSEMBLE, RELOCATE, DISASSEMBLE AND REMOVE ANY TEMPORARY BRACING, EQUIPMENT, OR STRUCTURE AS NEEDED TO CONSTRUCT WORK REQUIRED BY THE CONSTRUCTION DOCUMENTS AND AS REQUIRED FOR A SAFE AND TIMELY COMPLETION OF THE WORK AT NO ADDITIONAL COST TO THE TENANT.
- ALL SUBCONTRACTORS SHALL TAKE PRECAUTIONS TO AVOID DAMAGE AT ANY EQUIPMENT, MATERIALS, FINISHES, STRUCTURES, ETC. ANY SUCH DAMAGE SHALL BE IMMEDIATELY REPAIRED TO OWNER'S SATISFACTION AT THE SUBCONTRACTOR'S SOLE COST AND EXPENSE AT NO ADDITIONAL COST TO THE TENANT.

Contractor Name: Rich Buxley  
Contact Number: 402-639-5381  
Adel Construction

REVISIONS/DATES

NO.	DATE	DESCRIPTION

WOODHOUSE BLAIR DETAIL & ACCESSORY BAY

2171 S HWY 30  
SUITE 101  
BLAIR, NEBRASKA

GRID ARCHITECTURE, LLC  
T: (402) 960-6625  
F: (866) 443-7821



I, GAZALA BOUR-LEROUX AM THE COORDINATING PROFESSIONAL FOR THE WOODHOUSE BLAIR DETAIL & ACCESSORY BAY

A0.0  
TITLE SHEET

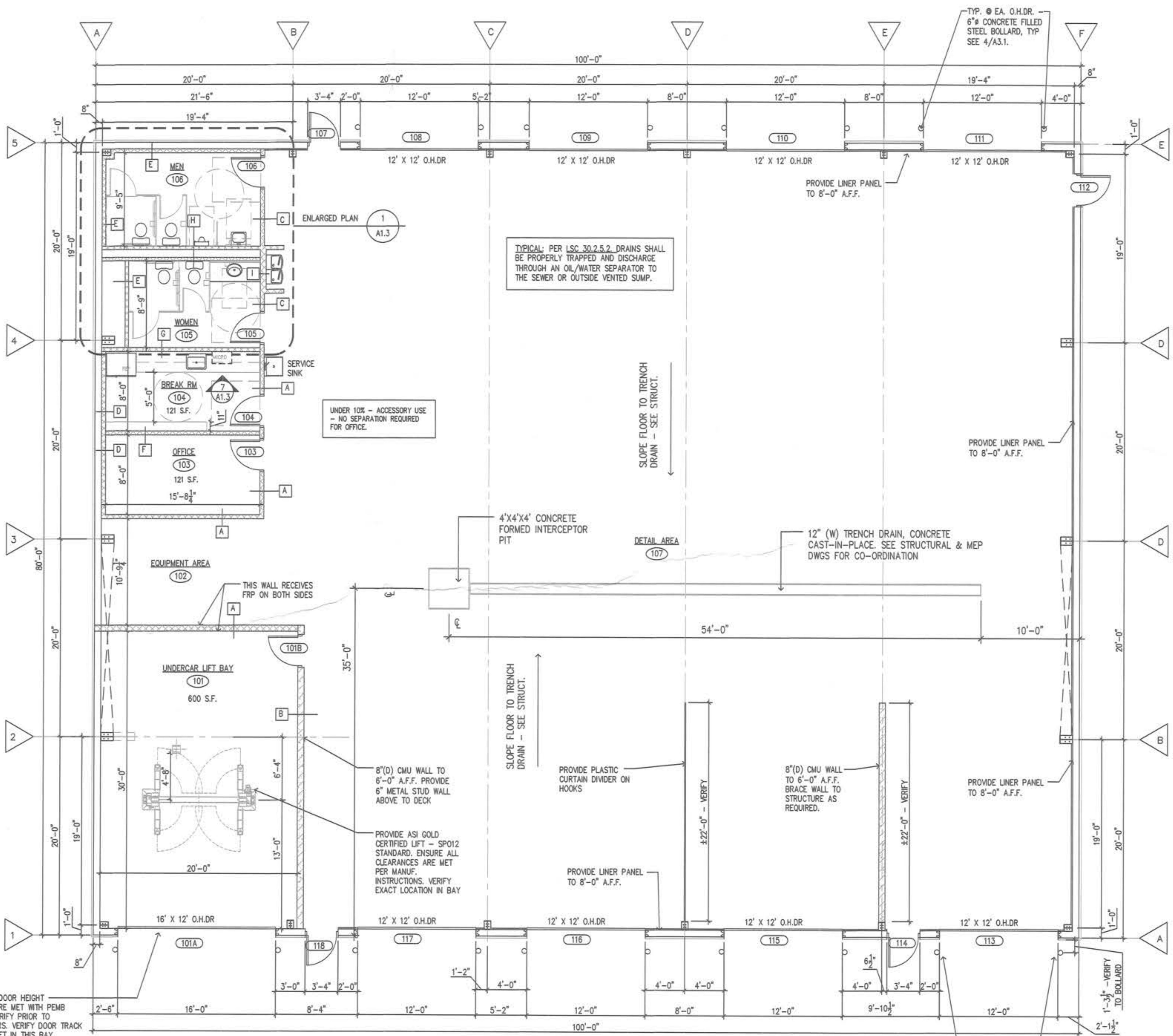
REVISIONS/DATES		
NO.	DATE	DESCRIPTION

**WOODHOUSE BLAIR DETAIL & ACCESSORY BAY**  
 2171 S. HWY. 30  
 SUITE 101  
 BLAIR, NEBRASKA

ARCHITECTURE, LLC  
 T. (402) 860-6625  
 F. (866) 443-7821



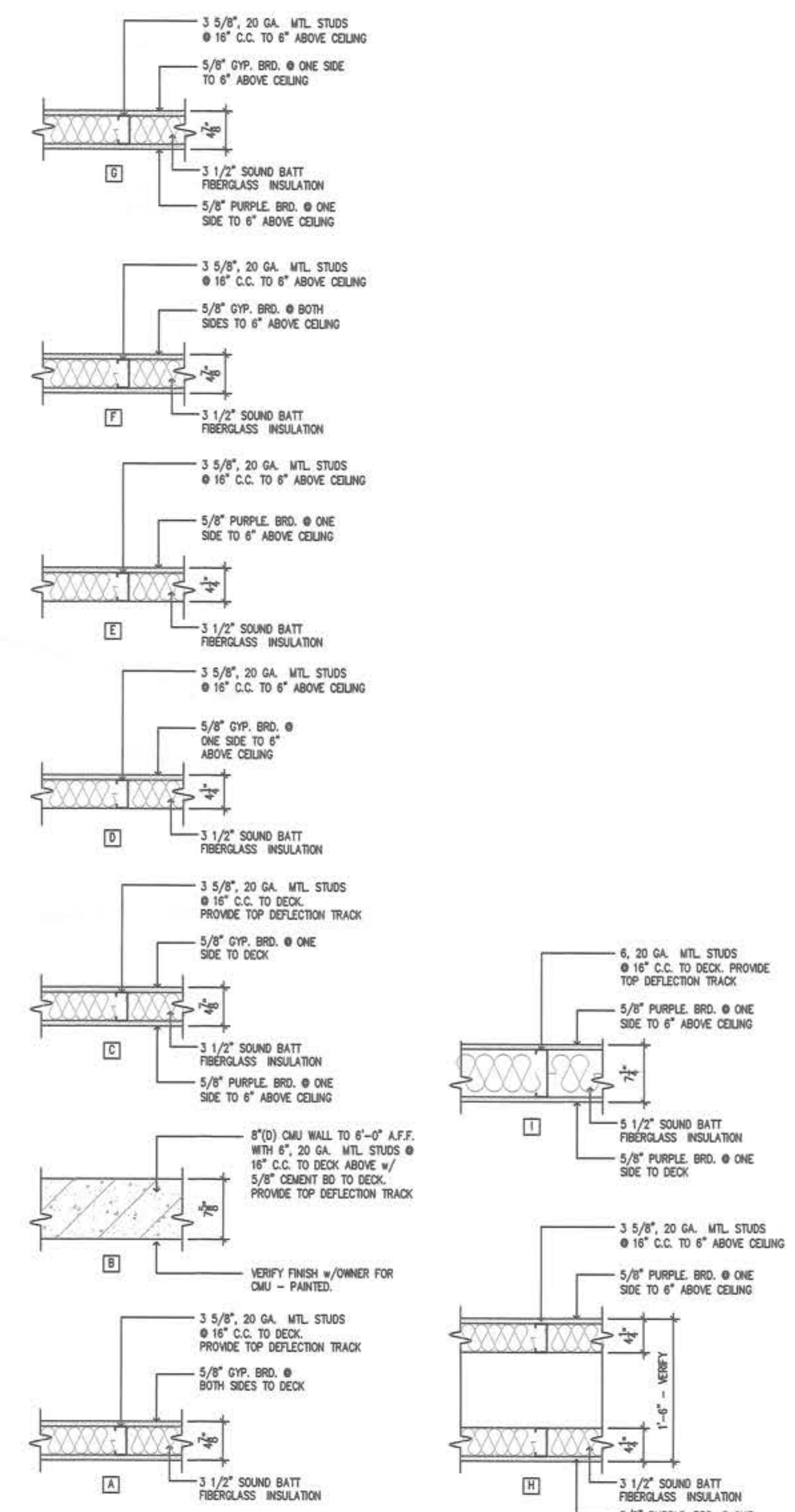
**A1.1**  
 PROPOSED FLOOR PLAN



GC TO VERIFY DOOR HEIGHT CLEARANCES ARE MET WITH PEMB STRUCTURE. VERIFY PRIOR TO ORDERING DOORS. VERIFY DOOR TRACK CLEARS CAR LIFT IN THIS BAY. PROVIDE SIDEMOUNT AND HIGH LIFT DOOR AS REQ. VERIFY w/DOOR SUPPLIER. ENSURE ENDWALL BEAM IS AVOIDED AS REQ.

**PROPOSED FLOOR PLAN**  
 3/16" = 1'-0"

IECC 2018:  
 SECTION C402.5.7:  
 EXEMPT FROM VESTIBULE REQUIREMENT AS THESE DOORS ARE NOT INTENDED TO BE USED BY THE PUBLIC - SOLELY FOR EMPLOYEES ONLY.



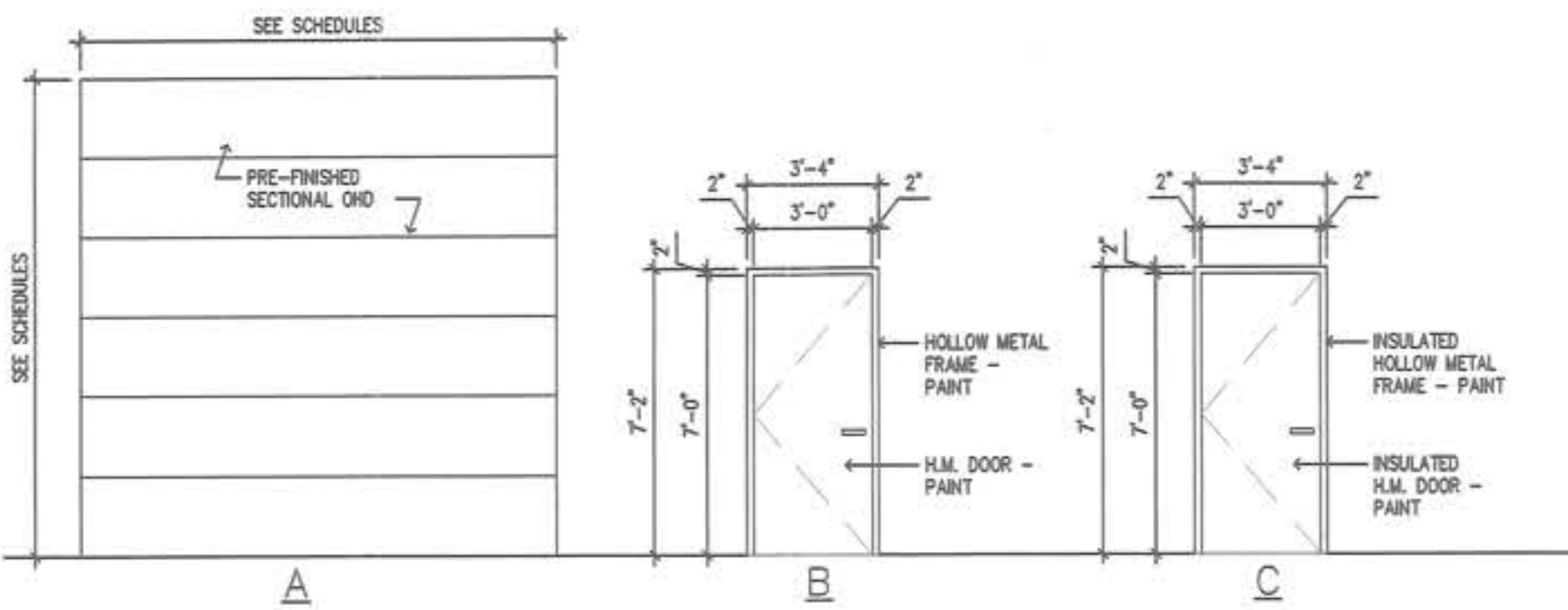
**WALL TYPE NOTES:**  
 NOTE 1: BRACE ALL WALLS TO STRUCTURE AS REQUIRED  
 NOTE 2: GC TO ENSURE APPROPRIATE STUD GAGE IS PROVIDED FOR STUD HEIGHT  
 NOTE 3: GC TO APPLY CEMENT BOARD / PURPLE BRD. OR EQUIVALENT AT ALL WET WALLS  
 NOTE 4: GC PROVIDE TOP DEFLECTION TRACK WHERE WALLS GO TO DECK TO ACCOMMODATE FOR MOVEMENT

DOOR SCHEDULE

DOOR MARK	DOORS		LEAF				FRAME		HARDWARE		RATING	NOTES
	LOCATION	SIZE (WxHxT)	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	SET NO.	LOCK TYPE			
101A	UNDERLIFT BAY	16'-0" x 12'-0" O.H.DR	STL	PRE-FINISHED	A	-	-	1	-	-	INSULATED DOOR w/OPERATOR	
101B	UNDERLIFT BAY	3'-0" x 7'-0" x 1 3/4"	H.M.	PAINT	B	H.M.	PAINT	2	PASSAGE	-		
103	OFFICE	3'-0" x 7'-0" x 1 3/4"	H.M.	PAINT	B	H.M.	PAINT	3	OFFICE	-		
104	BREAK RM	3'-0" x 7'-0" x 1 3/4"	H.M.	PAINT	B	H.M.	PAINT	4	PASSAGE	-		
105	WOMEN	3'-0" x 7'-0" x 1 3/4"	H.M.	PAINT	B	H.M.	PAINT	5	PUSH / PULL	-		
106	MEN	3'-0" x 7'-0" x 1 3/4"	H.M.	PAINT	B	H.M.	PAINT	5	PUSH / PULL	-		
107	DETAIL AREA	3'-0" x 7'-0" x 1 3/4"	H.M.	PAINT	C	H.M.	PAINT	6	ENTRANCE	-	INSULATED	
108	DETAIL AREA	12'-0" x 12'-0" O.H.DR	STL	PRE-FINISHED	A	-	-	1	-	-	INSULATED DOOR w/OPERATOR	
109	DETAIL AREA	12'-0" x 12'-0" O.H.DR	STL	PRE-FINISHED	A	-	-	1	-	-	INSULATED DOOR w/OPERATOR	
110	DETAIL AREA	12'-0" x 12'-0" O.H.DR	STL	PRE-FINISHED	A	-	-	1	-	-	INSULATED DOOR w/OPERATOR	
111	DETAIL AREA	12'-0" x 12'-0" O.H.DR	STL	PRE-FINISHED	A	-	-	1	-	-	INSULATED DOOR w/OPERATOR	
112	DETAIL AREA	3'-0" x 7'-0" x 1 3/4"	H.M.	PAINT	C	H.M.	PAINT	6	ENTRANCE	-	INSULATED	
113	DETAIL AREA	12'-0" x 12'-0" O.H.DR	STL	PRE-FINISHED	A	-	-	1	-	-	INSULATED DOOR w/OPERATOR	
114	DETAIL AREA	12'-0" x 12'-0" O.H.DR	STL	PRE-FINISHED	A	-	-	1	-	-	INSULATED DOOR w/OPERATOR	
115	DETAIL AREA	12'-0" x 12'-0" O.H.DR	STL	PRE-FINISHED	A	-	-	1	-	-	INSULATED DOOR w/OPERATOR	
116	DETAIL AREA	12'-0" x 12'-0" O.H.DR	STL	PRE-FINISHED	A	-	-	1	-	-	INSULATED DOOR w/OPERATOR	
117	DETAIL AREA	12'-0" x 12'-0" O.H.DR	STL	PRE-FINISHED	A	-	-	1	-	-	INSULATED DOOR w/OPERATOR	
118	DETAIL AREA	3'-0" x 7'-0" x 1 3/4"	H.M.	PAINT	C	H.M.	PAINT	6	ENTRANCE	-	INSULATED	

HARDWARE SETS: VERIFY ALL FINISHES w/OWNER

<p><b>HARDWARE SET #1:</b></p> <ul style="list-style-type: none"> <li>1 EA. OVERHEAD DOOR</li> <li>2 EA. TRACK</li> <li>HEAVY DUTY PERIMETER WEATHERSTRIPPING OPERATOR - SEE MEP DWGS</li> </ul>	<p><b>HARDWARE SET #2:</b></p> <ul style="list-style-type: none"> <li>3 EA. HINGES, STANLEY, FB8191, 4.5 X 4.5, NRP, 280</li> <li>1 EA. PASSAGE LATCHSET, LEVER LOCK, "FALCON" DANE 626</li> <li>1 EA. WALL STOP - "ROCKWOOD", 409, US260</li> <li>3 EA. SILENCER - "YES", SR64, GR1</li> </ul>	<p><b>HARDWARE SET #3:</b></p> <ul style="list-style-type: none"> <li>3 EA. HINGES, STANLEY, FB8191, 4.5 X 4.5, NRP, 280</li> <li>1 EA. ENTRANCE LOCKSET, FALCON, DANE, 626</li> <li>1 EA. CLOSER, LON, 4041, AL</li> <li>1 EA. 1/2" THRESHOLD, PEMKO, 271A</li> <li>1 EA. SHEEP, PEMKO, 3103H</li> <li>1 EA. HEAD &amp; JAMB WEATHERSTRIPPING, PEMKO, 290AS.</li> <li>1 EA. DRIP CAP, PEMKO, 346C</li> <li>1 EA. KICK PLATE - "ROCKWOOD", K1050 12" X 34", US260.</li> </ul>
<p><b>HARDWARE SET #4:</b></p> <ul style="list-style-type: none"> <li>3 EA. HINGES, STANLEY, FB8191, 4.5 X 4.5, NRP, 280</li> <li>1 EA. PUSH PLATE, ROCKWOOD #70C 4" X 16"</li> <li>1 EA. PULL PLATE, ROCKWOOD #125 X 70B, 3 1/2" X 15"</li> <li>1 EA. CLOSER, LON, 4041, AL</li> <li>1 EA. WALL STOP - "ROCKWOOD", 409, US260</li> </ul>	<p><b>HARDWARE SET #5:</b></p> <ul style="list-style-type: none"> <li>3 EA. HINGES, STANLEY, FB8191, 4.5 X 4.5, NRP, 280</li> <li>1 EA. OFFICE LOCKSET, LEVER LOCK, "FALCON" DANE 626</li> <li>1 EA. WALL STOP - "ROCKWOOD", 409, US260</li> <li>3 EA. SILENCER - "YES", SR64, GR1</li> </ul>	<p><b>SIGNAGE FOR RESTROOMS ONLY:</b></p> <ul style="list-style-type: none"> <li>ADA RESTROOM SIGNAGE - "ROCKWOOD", (WOMEN) OR (MEN)</li> <li>BLACK - VERIFY COLOR w/OWNER</li> <li>PROVIDE w/RAISED LETTERS, BRILLE SYMBOL OR ACCESSIBILITY &amp; PICTOGRAMS. MOUNT SIGNAGE TO WALL ADJACENT TO LATCH SIDE OF DOOR @ 60" A.F.F. TO CENTERLINE OF SIGNAGE PER A.D.A. REQUIREMENTS</li> </ul>



DOOR TYPES  
A1.2 1/4" = 1'-0"

SEE PLAN FOR DOOR SWING

ROOM FINISH SCHEDULE (VERIFY ALL FINISHES w/OWNER)

ROOM #	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISHES				CEILING FINISH	CEILING HEIGHT	NOTES
				NORTH	SOUTH	EAST	WEST			
101	UNDERLIFT BAY	CONCRETE w/ EPOXY FINSH.	VINYL / EXP. MTL WALL	CMU TO 6'-0" A.F.F. / GYP. BD - PAINT, LATEX ABOVE	EXPOSED MTL WALL	EXPOSED MTL WALL	GYP. BD - w/FRP FINISH	EXPOSED STRUCT.	VARIES	
102	EQUIPMENT AREA	CONCRETE w/ EPOXY FINSH.	VINYL / EXP. MTL WALL	GYP. BD - PAINT, LATEX	GYP. BD - PAINT, LATEX	GYP. BD - w/FRP FINISH	GYP. BD - PAINT, LATEX	EXPOSED STRUCT.	VARIES	
103	OFFICE	CONCRETE w/ EPOXY FINSH.	VINYL	GYP. BD - PAINT, LATEX	GYP. BD - PAINT, LATEX	GYP. BD - PAINT, LATEX	GYP. BD - PAINT, LATEX	ACT	9'-0"	
104	BREAK RM	CONCRETE w/ EPOXY FINSH.	VINYL	GYP. BD - PAINT, LATEX	GYP. BD - PAINT, LATEX	GYP. BD - PAINT, LATEX	GYP. BD - PAINT, LATEX	ACT	9'-0"	
105	WOMEN	CONCRETE w/ EPOXY FINSH.	VINYL	GYP. BD - PAINT, EPOXY	GYP. BD - PAINT, EPOXY	GYP. BD - PAINT, EPOXY	GYP. BD - PAINT, EPOXY	ACT	9'-0"	NOTE 1
106	MEN	CONCRETE w/ EPOXY FINSH.	VINYL	GYP. BD - PAINT, EPOXY	GYP. BD - PAINT, EPOXY	GYP. BD - PAINT, EPOXY	GYP. BD - PAINT, EPOXY	ACT	9'-0"	NOTE 1
107	DETAIL AREA	CONCRETE w/ EPOXY FINSH.	VINYL / EXP. MTL WALL	EXPOSED MTL WALL	GYP. BD - PAINT, LATEX / EXPOSED MTL WALL	EXPOSED MTL WALL	EXPOSED MTL WALL	EXPOSED STRUCT.	VARIES	NOTE 1, 2

NOTE 1: PROVIDE CEMENT BOARD BACKING / PURPLE BOARD OR EQUAL FOR ALL WET WALLS  
 NOTE 2: SEE FLOOR PLAN FOR CMU WALL LOCATIONS  
 NOTE 3: PROVIDE FRP FINISH BEHIND ENW TO 4'-0" A.F.F. - VERIFY OPTIONS w/OWNER

FINISHES FINAL COLORS AND SELECTIONS SHALL BE PICKED BY OWNER

ACT	ACT SHALL BE ARMSTRONG, STYLE: VERIFY, SIZE: 24" X 24", COLOR: WHITE, REGULAR SAND FINISH. GRID: 15/16", COLOR: WHITE. VERIFY w/OWNER FOR FINAL SELECTION
VINYL BASE	BASE SHALL BE COVERED 4" HIGH, COLOR: GREY W/ 48
LAMINATE - FOR VERTICAL CABINET SURFACES - BREAK ROOM	STEVENSWOOD - WHITE MELAMINE FOR INTERIOR CABINETS
LAMINATE - FOR VERTICAL CABINET SURFACES - RECEPTION BACK COUNTER	STEVENSWOOD - WHITE MELAMINE FOR INTERIOR CABINETS
LAMINATE - FOR COUNTERTOPS	WILSONART VERIFY STYLE, TYPE & COLOR w/OWNER
MAN PAINT	SHALL BE BY SHERWIN WILLIAMS, COLOR: VERIFY, EGGSHELL FINISH
EPOXY FLOORING	VERIFY MAKE / MANUF. w/OWNER
PAINTED FRAMES	VERIFY MAKE / MANUF. - SEMI-GLOSS FINISH
FRP	FRP - FIBERGLASS REINFORCED PANELS SHALL BE BY MARLITE OR APPROVED EQUAL WHITE PEBBLE.
FIRE EXTINGUISHER CABINETS & EXTINGUISHER (FEC)	FIRE EXTINGUISHER CABINET SHALL BE BY J.L. INDUSTRIES - "COSMOPOLITAN", FULL GLAZING, CLEAR TEMPERED GLASS - WITH STEEL POWDER COAT FINISH - PAINT - VERIFY COLOR. FE: J.L. INDUSTRIES CLEAR WITH COSMIC 100 EXTINGUISHER - 10 LB CAPACITY DRY CHEMICAL. GC TO PROVIDE FEC AS REQUIRED BY STATE FIRE MARSHALL. MAXIMUM DISTANCE TO A FIRE EXTINGUISHER SHALL NOT EXCEED 75 FEET.

REVISIONS/DATES		
NO.	DATE	DESCRIPTION

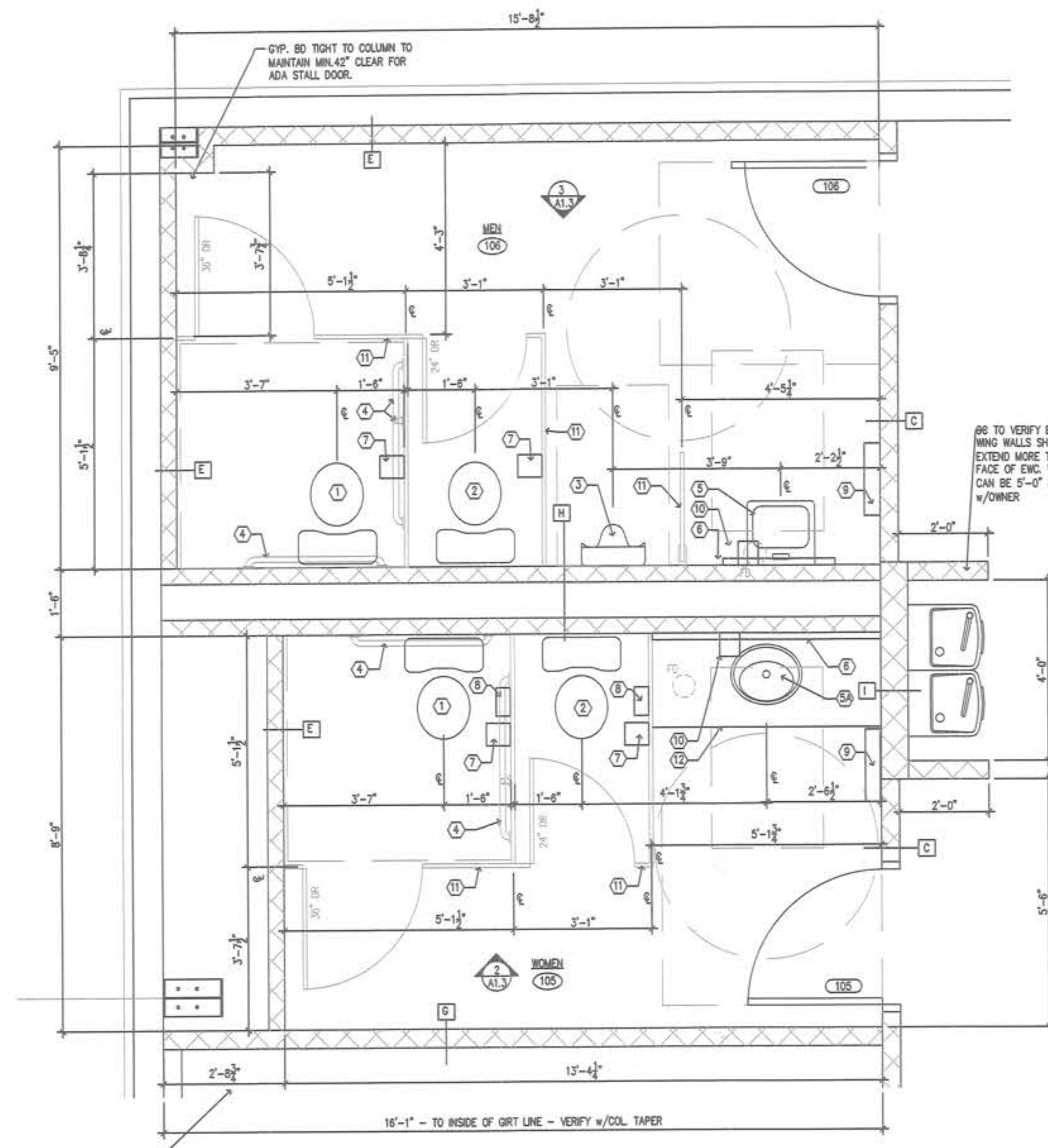
**WOODHOUSE BLAIR DETAIL & ACCESSORY BAY**  
 2171 S HWY. 30  
 SUITE 101  
 BLAIR, NEBRASKA

CREATE + BUILD + INHABIT

**GRID ARCHITECTURE, LLC**  
 T: (402) 900-8625  
 F: (402) 443-7821



**A1.2**  
SCHEDULES

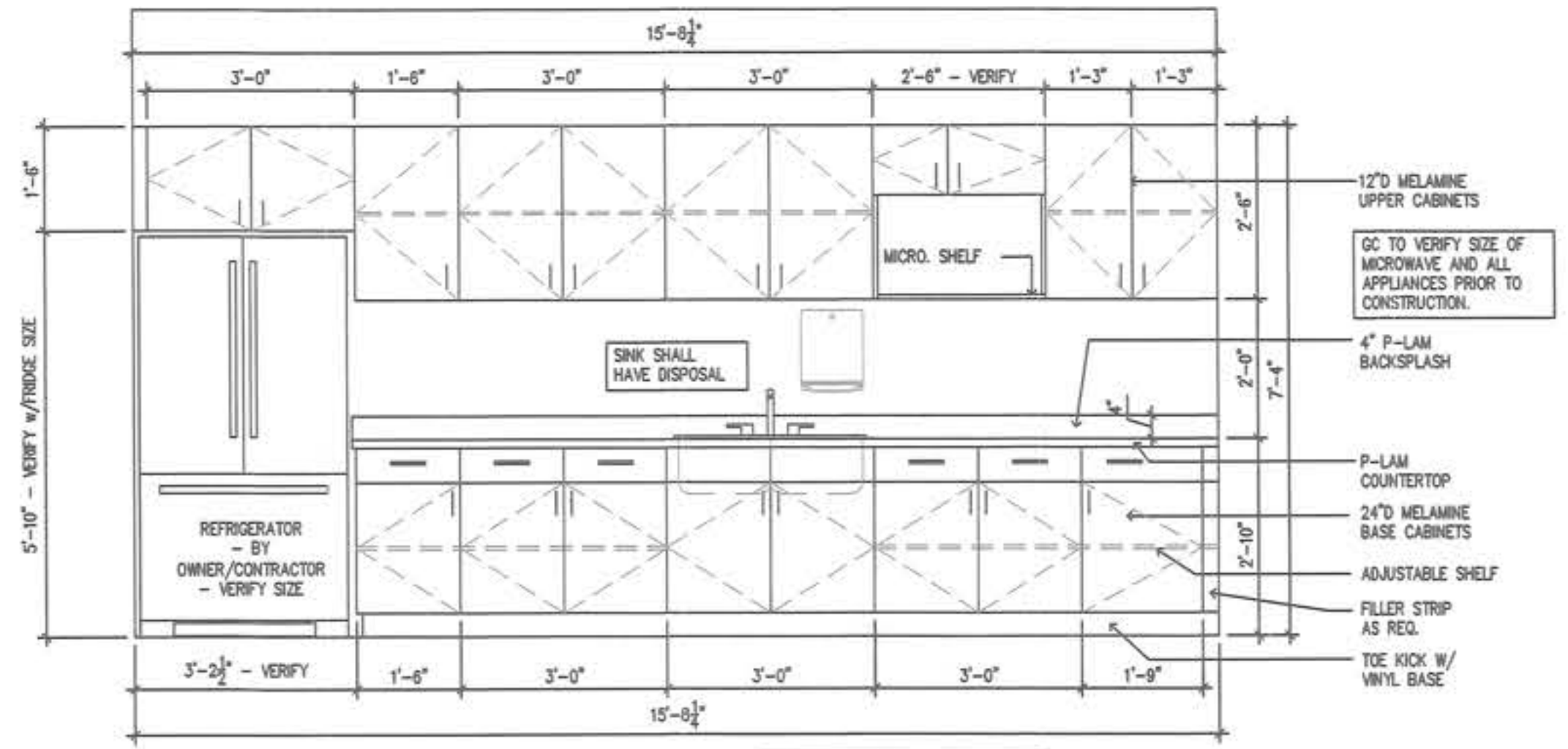


1 ENLARGED RESTRM PLAN  
A1.3 1/2" = 1'-0"

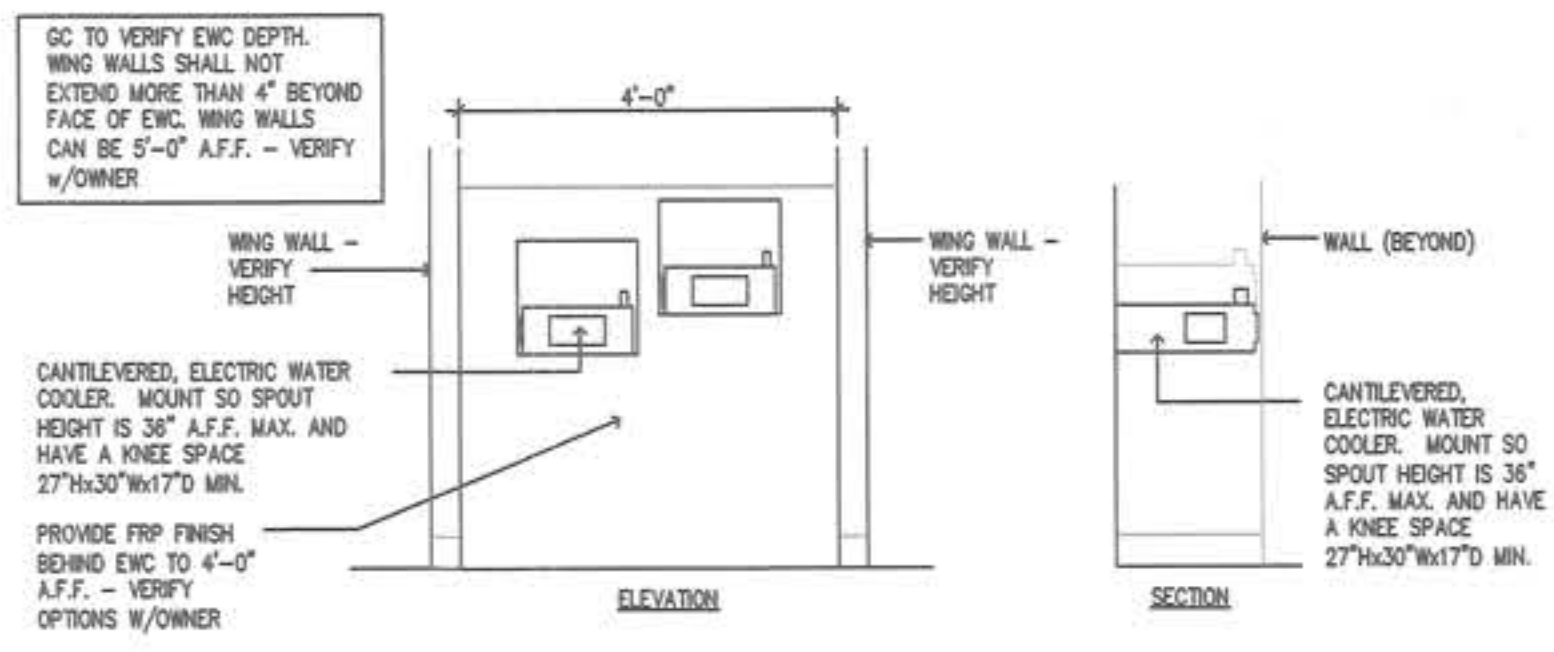
- ### RESTROOM CODED NOTES
- ADA TANK TYPE WATER CLOSET w/POWER ASSIST. SEAT HEIGHT AT 18" A.F.F. - SEE MEP DWGS
  - TANK TYPE WATER CLOSET w/POWER ASSIST- SEE MEP DWGS
  - ADA URINAL RIM HEIGHT AT 17" A.F.F. - SEE MEP DWGS
  - GRAB BARS BY AMERICAN SPECIALTIES, INC. SERIES 3800, OR APPROVED EQUAL MOUNT AT 2'-11" A.F.F.  
(1) 3'-0" LONG BAR AT BACK WALL - HOLD 6" FROM CORNER  
(2) 3'-0" LONG BAR AT SIDE WALL - HOLD 12" FROM CORNER AND MOUNT @ 35" A.F.F. TO CENTERLINE  
(3) VERTICAL GRAB BAR - MOUNT @ 36" A.F.F. AND 39" FROM BACK WALL. GRAB BAR TO BE A MINIMUM OF 18" LONG.
  - SURFACE MOUNTED LAV W/ ADA LEVER FAUCET & TURBO #103-EZ "SNAP-ON" DRAIN PIPE INSULATION AT EXPOSED PLUMBING ONLY.
  - DROP IN LAVS W/ ADA FAUCET & TURBO #102-S "SNAP-ON" DRAIN PIPE INSULATION AT EXPOSED PLUMBING ONLY.
  - FRAMELESS MIRROR - PROVIDE TAMPER PROOF MOUNTING SCREWS TO SUIT INDIVIDUAL FIELD CONDITIONS. MOUNT SO THE BOTTOM EDGE OF THE REFLECTIVE SURFACE IS 40" MAX. A.F.F. FIELD COORDINATE. ALL MIRROR SIZES SHALL BE FIELD VERIFIED.
  - SURFACE MOUNTED DUAL TOILET PAPER DISPENSER, BY AMERICAN SPECIALTIES, INC. OR APPROVED EQUAL MOUNT @ 2'-0" A.F.F. TO CENTERLINE AND 3'-0" TO FARTHEST EDGE FROM REAR WALL.
  - SANITARY NAPKIN DISPOSAL, BY AMERICAN SPECIALTIES, INC OR APPROVED EQUAL MOUNT @ 1'-8" A.F.F. TO CENTERLINE - (IN WOMEN'S ONLY)
  - PAPER TOWEL DISPENSER AMERICAN SPECIALTIES OR APPROVED EQUAL MOUNT SO BOTTOM OF PAPER SLOT IS 4'-0" A.F.F. (MAX)
  - SURFACE MOUNTED SOAP DISPENSER BY AMERICAN SPECIALTIES OR APPROVED EQUAL - MOUNT @ 3'-4" AFF TO BOTTOM OF DISPENSER.
  - TOILET PARTITIONS AND URINAL SCREENS SHALL BE POWDER COATED STEEL, FLOOR ANCHORED-OVERHEAD BRACED, w/ COAT HOOKS IN EACH WC STALL. 24" DOORS @ STANDARD STALL AND 36" DOORS @ ADA STALLS. URINAL SCREENS SHALL BE WALL MOUNT, 24" x 42", MATCH TOILET PARTITIONS. COLOR TO BE SELECTED FROM MANUFACTURERS STANDARD COLORS.
  - 2'-0" P-LAM COUNTERTOP W/ BACKSLASH & BRACES. SEE 5/11.3

- ### NOTES
- GENERAL CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR PROVIDING AND COORDINATING ADEQUATE F.V. BLOCKING FOR ALL TOILET ACCESSORIES.

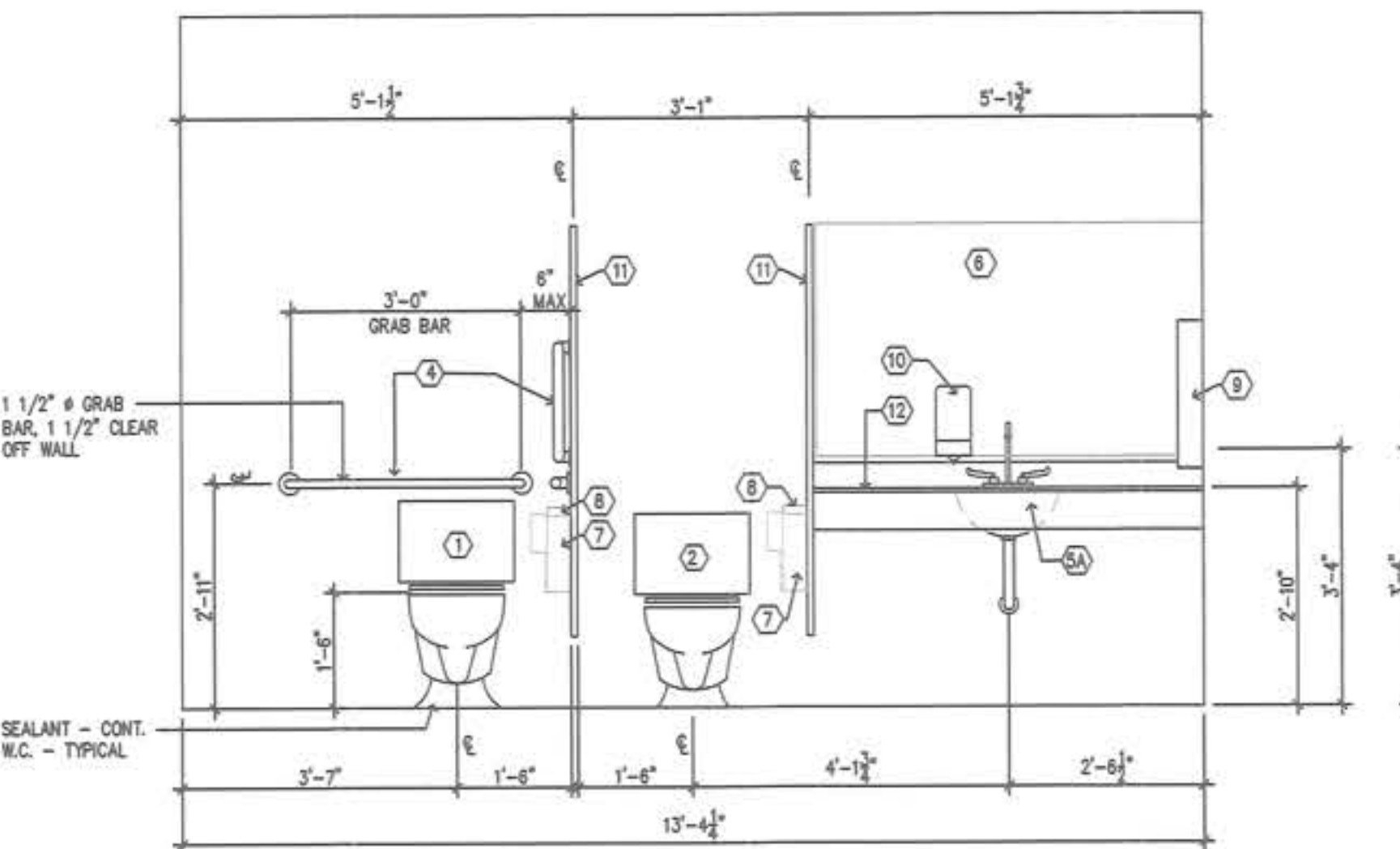
- ### GENERAL MILLWORK NOTES:
- PROVIDE ONE-PIECE, FINISHED END PANELS AT ALL EXPOSED CASEWORK SIDES.
  - PROVIDE CONTINUOUS BLOCKING WITHIN NEW WALLS AS REQUIRED FOR ALL WALL MOUNTED CASEWORK, FIXTURES ACCESSORIES AND EQUIPMENT. ANCHOR BLOCKING BETWEEN STUDS, AT THE FACE OF THE STUDS, FOR THE ENTIRE WIDTH OF THE ITEM TO BE MOUNTED ON THE WALL. VERIFY VERTICAL LOCATION OF THE BLOCKING WITH THE MOUNTING HEIGHT REQUIRED AND THE REQUIREMENTS OF THE ITEM TO BE MOUNTED ON THE WALL IF WOOD BLOCKING IS INSTALLED, USE FIRE RETARDANT LUMBER.
  - PROVIDE LOCKS ON CABINETS DOORS AND/OR DRAWERS WHERE INDICATED AND AS REQUIRED BY OWNER. VERIFY LOCK REQUIREMENTS W/OWNER.
  - RADIUS ALL OUTSIDE CORNERS AT COUNTERTOPS.
  - PROVIDE CONTINUOUS SEALANT BEAD AT PERIMETER OF ALL COUNTERTOP EDGES - COLOR SHALL MATCH LAMINATE COLOR.
  - PROVIDE WOOD FILLER STRIPS AT CABINETS AS REQUIRED. FILLER STRIPS SHALL BE MANUFACTURED BY CABINET MANUFACTURER AND SHALL MATCH CABINET FINISH.
  - VERIFY ALL APPLIANCE DIMENSIONS SUPPLIED BY OWNER FOR CLEARANCE AND INSTALLATION REQUIREMENTS PRIOR TO INSTALLATION OF MILLWORK.
  - SCRIBE ALL COUNTERTOPS TO WALLS FOR ACCURATE FIT. APPLY SEALANT CONT. @ PERIMETER EDGES - 1/8" JOINT MAXIMUM.
  - EXTERIOR SURFACES & EXPOSED TO VIEW SURFACES SHALL BE FINISH SPECIFIED. INTERIOR SURFACES SHALL BE MELAMINE - UNLESS NOTED OTHERWISE.
  - PROVIDE COVER CAPS OVER ALL EXPOSED SCREWS, COLOR TO MATCH ADJACENT MATERIAL.



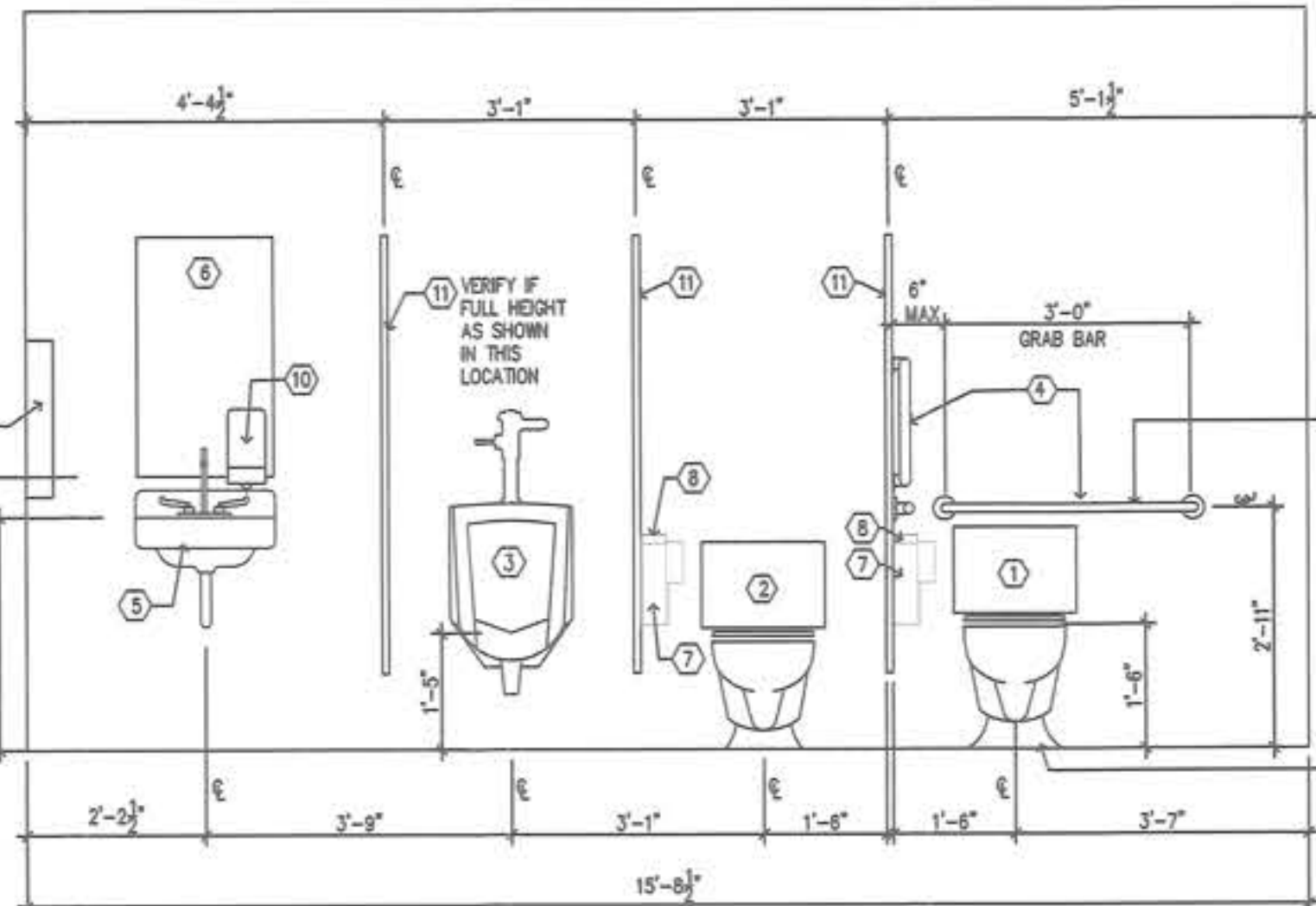
7 CABINET ELEV. (BREAK RM 116)  
A1.3 1/2" = 1'-0"



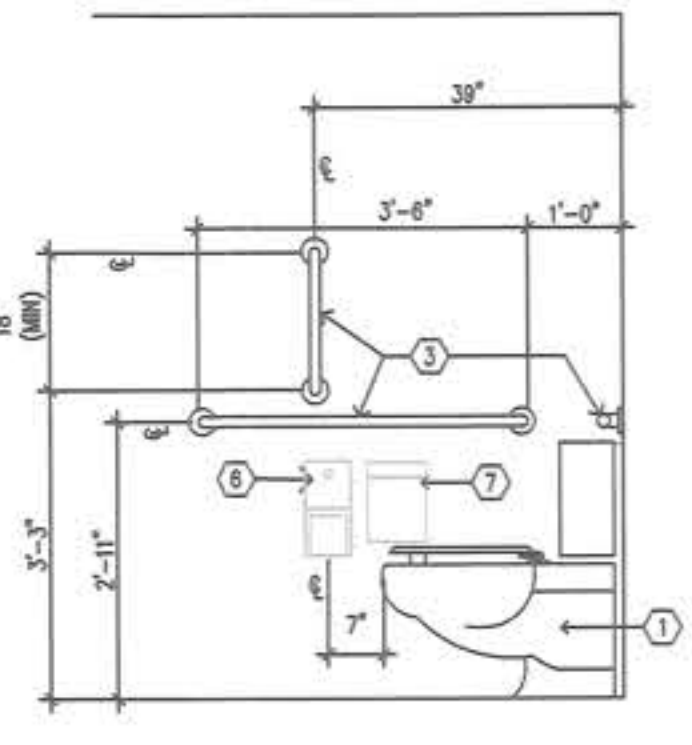
6 ELEVATION ELECTRIC WATER COOLER  
A1.3 1/2" = 1'-0"



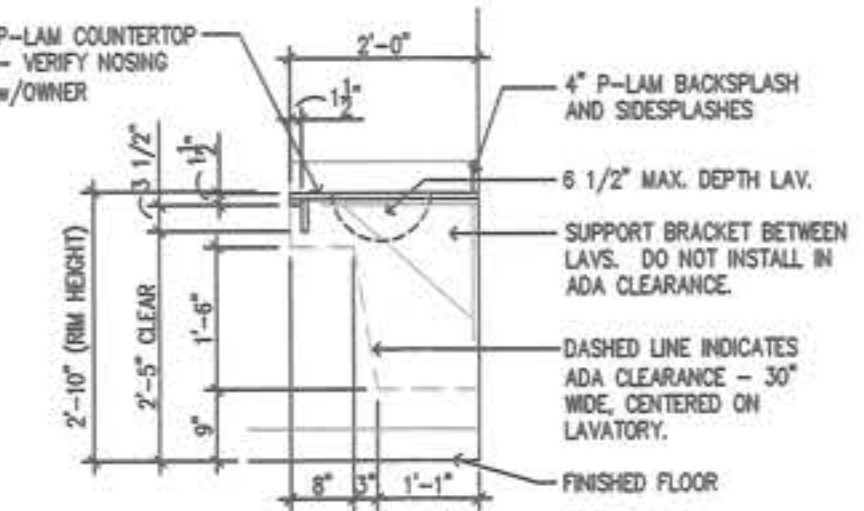
2 RESTROOM ELEVATION WOMEN 105  
A1.3 1/2" = 1'-0"



3 RESTROOM ELEVATION MEN 106  
A1.3 1/2" = 1'-0"



4 TYPICAL SIDE ELEV.  
A1.3 1/4" = 1'-0"



5 DETAIL  
A1.3 1/2" = 1'-0"

REVISIONS/DATES		
NO.	DATE	DESCRIPTION

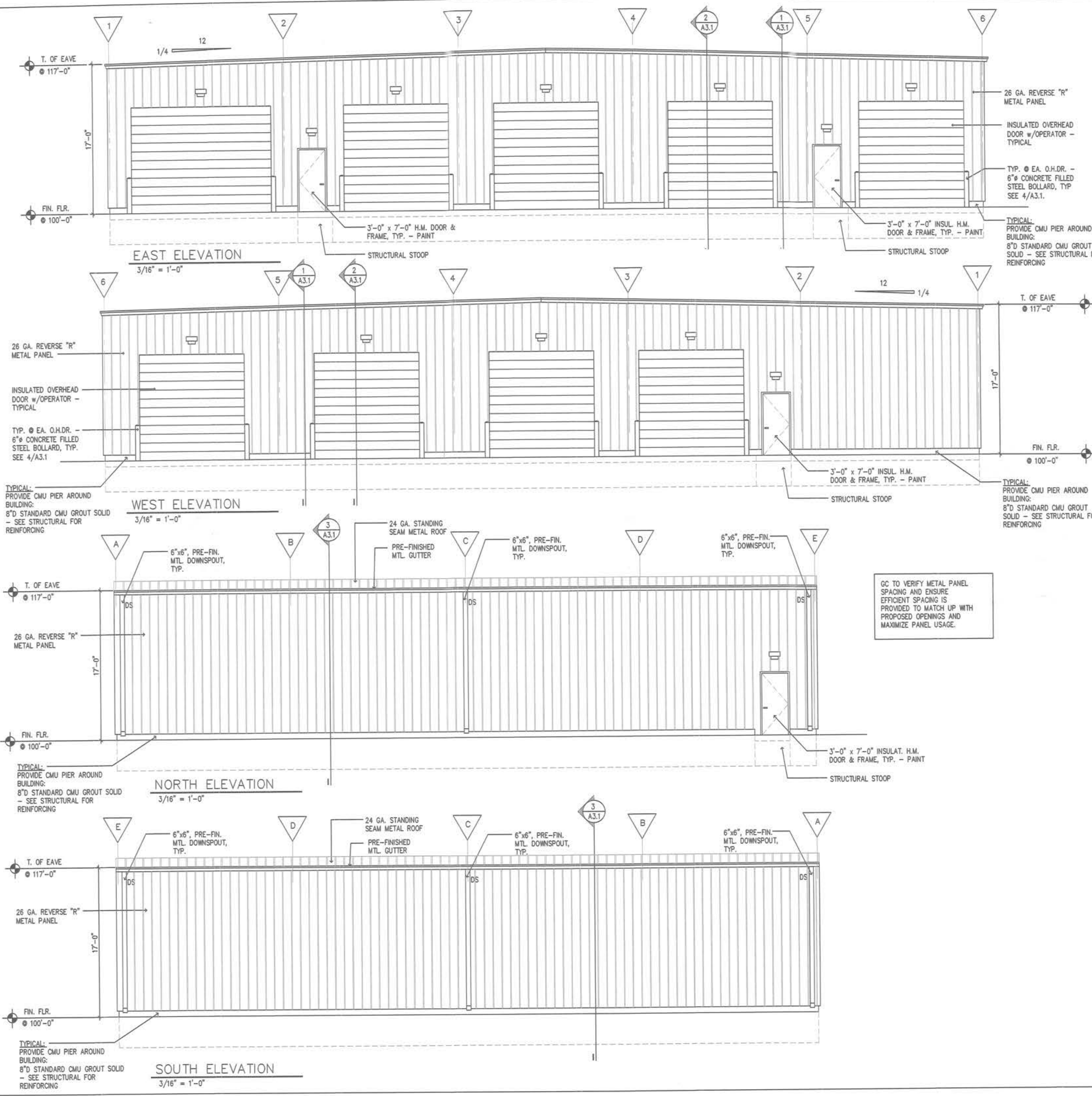
**WOODHOUSE BLAIR DETAIL & ACCESSORY BAY**  
 2171 S HWY. 30  
 SUITE 101  
 BLAIR, NEBRASKA

CREATED BY: BUILD 1 THABART

**GRID ARCHITECTURE, LLC**  
 T. (402) 980-8625  
 F. (866) 443-7821



**A1.3**  
 INTERIOR ELEVATIONS & DETAILS



REVISIONS/DATES		
NO.	DATE	DESCRIPTION

**WOODHOUSE BLAIR DETAIL & ACCESSORY BAY**  
 2171 S HWY 30  
 SUITE 101  
 BLAIR, NEBRASKA

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**GRID ARCHITECTURE, LLC**  
 T. (402) 960-6625  
 F. (866) 443-7821



**A2.1**  
 EXTERIOR ELEVATIONS

REVISIONS/DATES		
NO.	DATE	DESCRIPTION

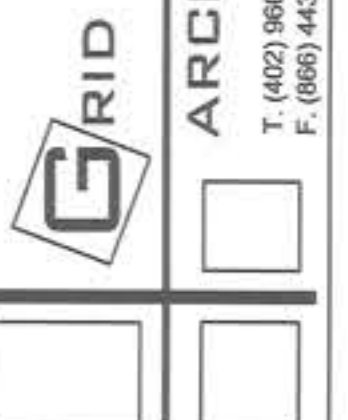
THIS SET OF DRAWINGS IS TO BE USED AS A GUIDE ONLY. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB. ANY CHANGES TO THE DRAWINGS SHALL BE MADE BY THE ARCHITECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.

# WOODHOUSE BLAIR DETAIL & ACCESSORY BAY

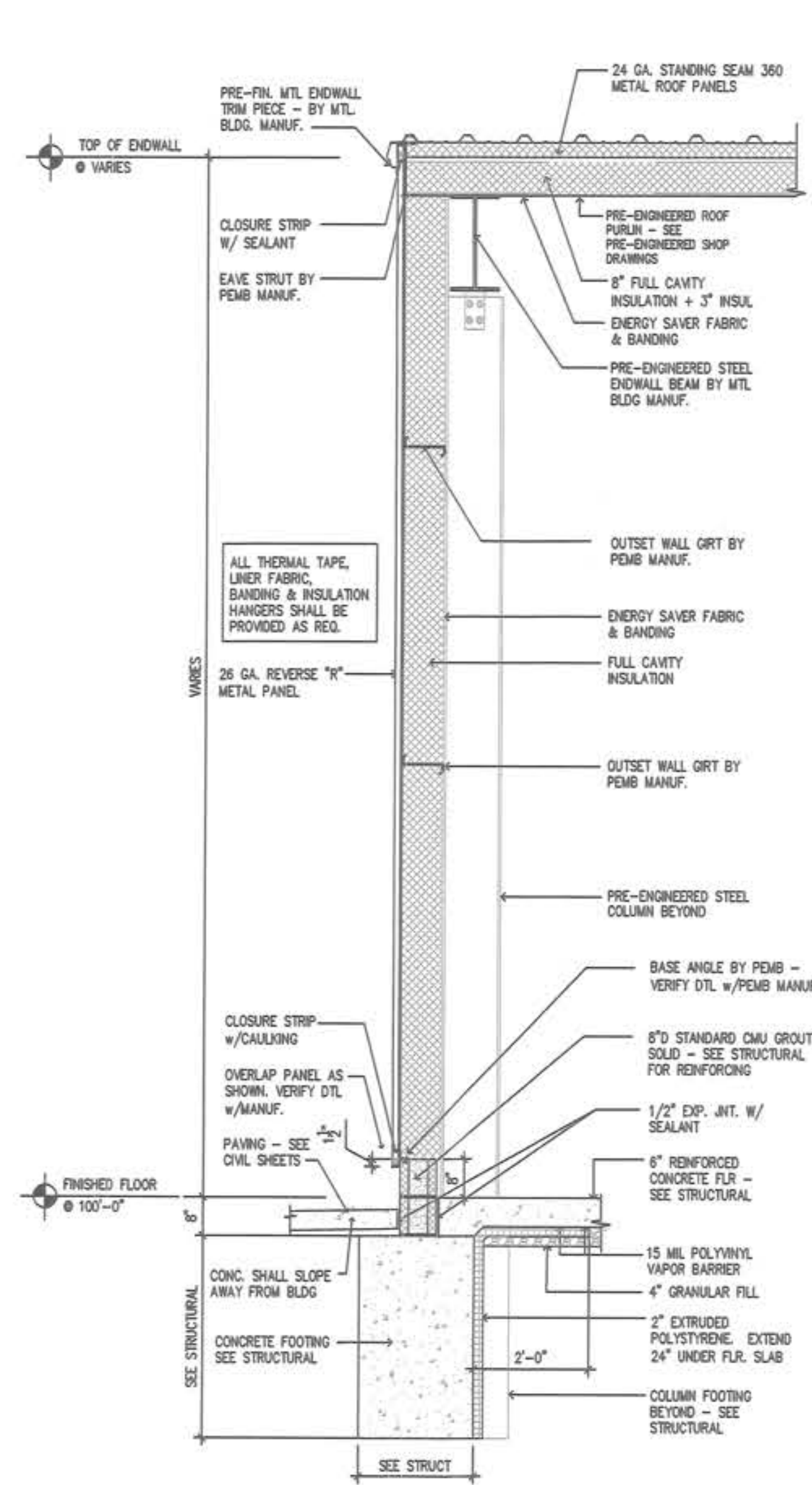
2171 S HWY 30  
SUITE 101  
BLAIR, NEBRASKA

CREATE + BUILD + INSPIRE

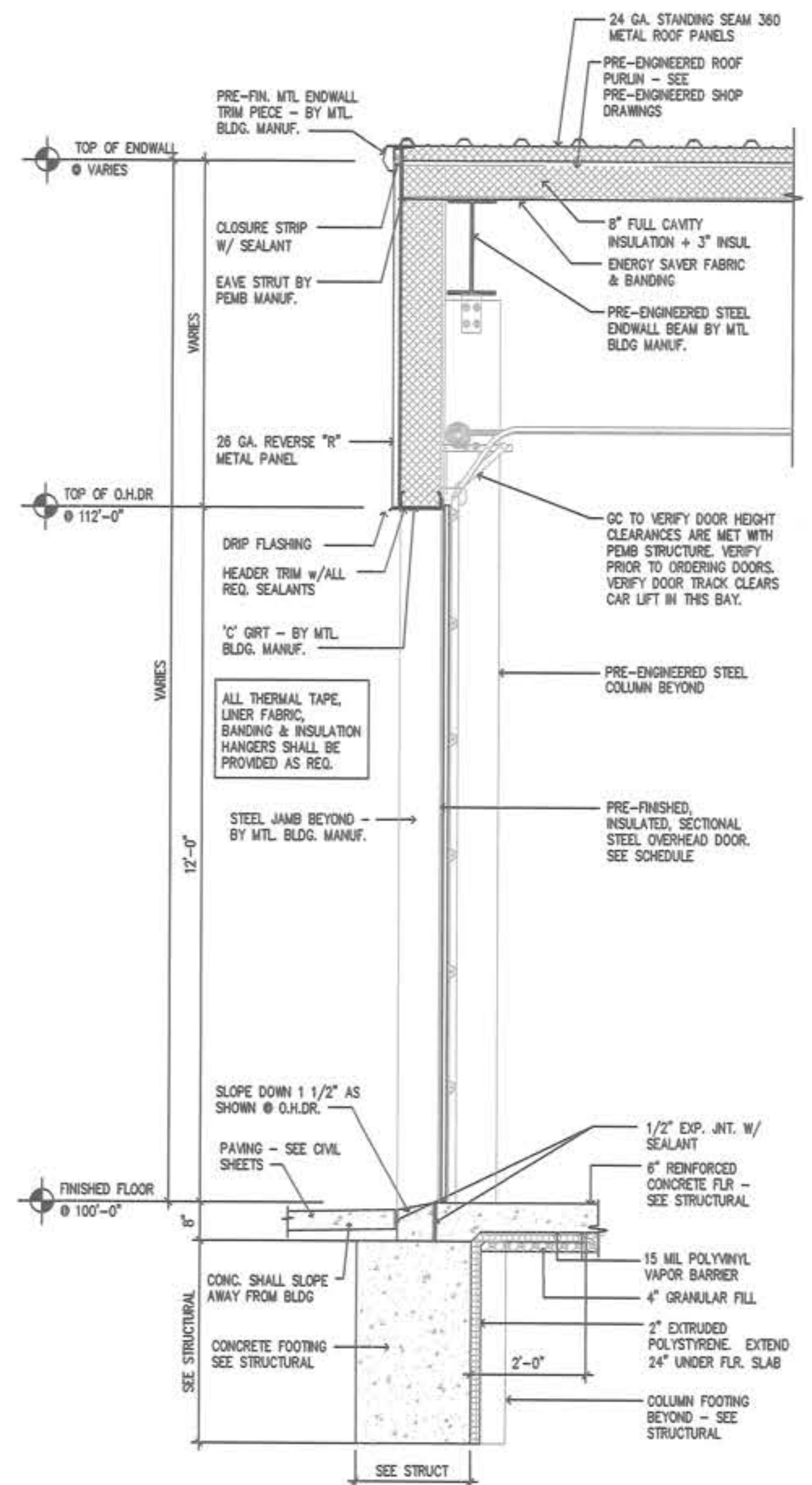
GRID ARCHITECTURE, LLC  
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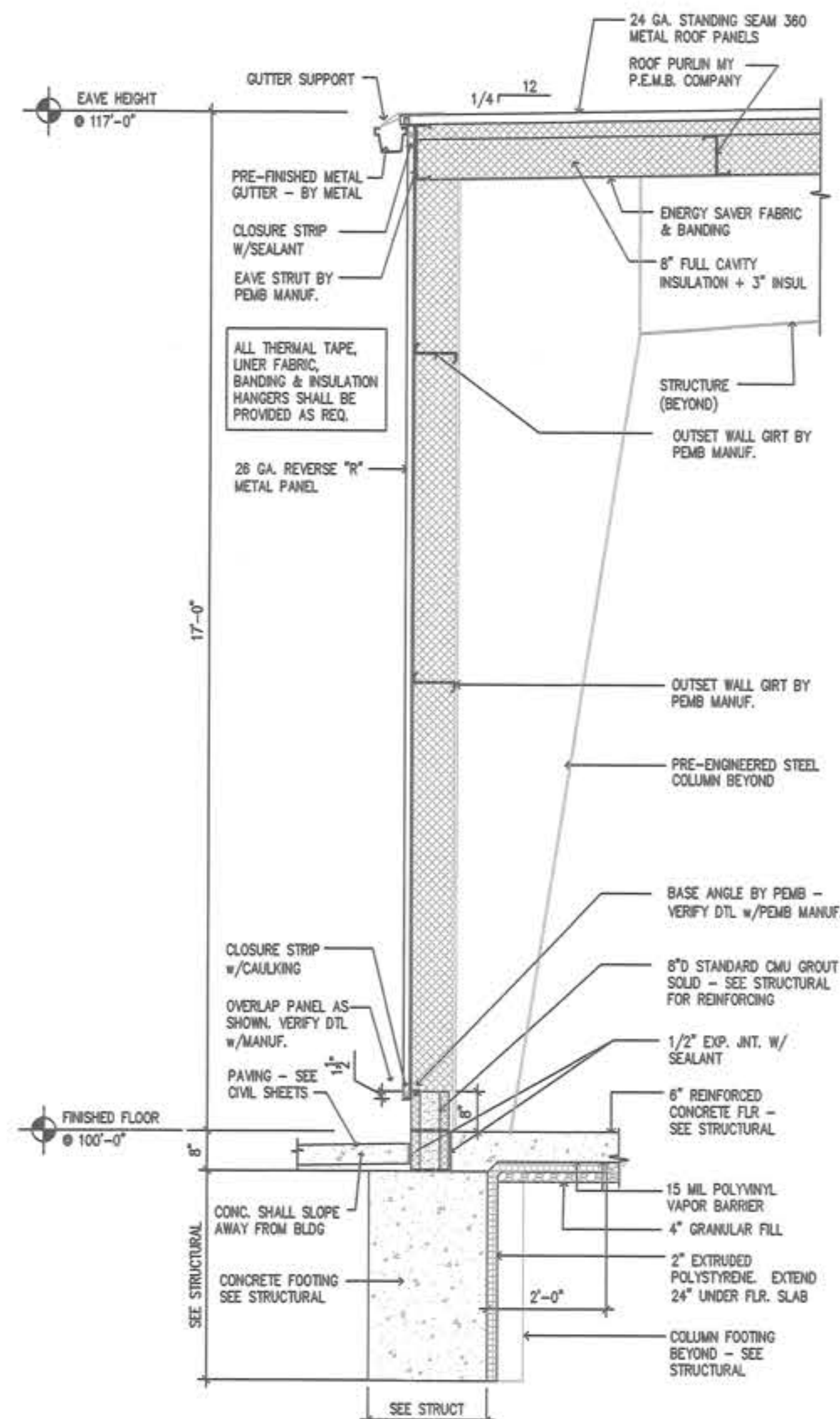
A3.1  
WALL SECTIONS & DETAILS



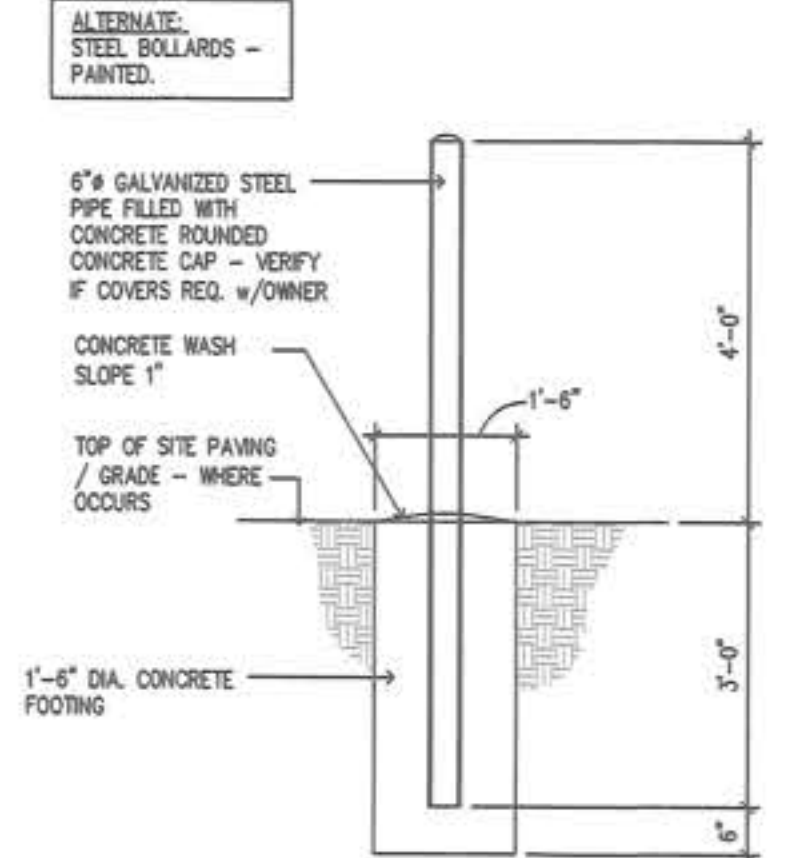
1 SECTION  
A3.1 1/2" = 1'-0"



2 SECTION  
A3.1 1/2" = 1'-0"



3 SECTION  
A3.1 1/2" = 1'-0"



4 TYP. BOLLARD DETAIL  
A3.1 1/2" = 1'-0"

REVISIONS/DATES	
NO.	DESCRIPTION

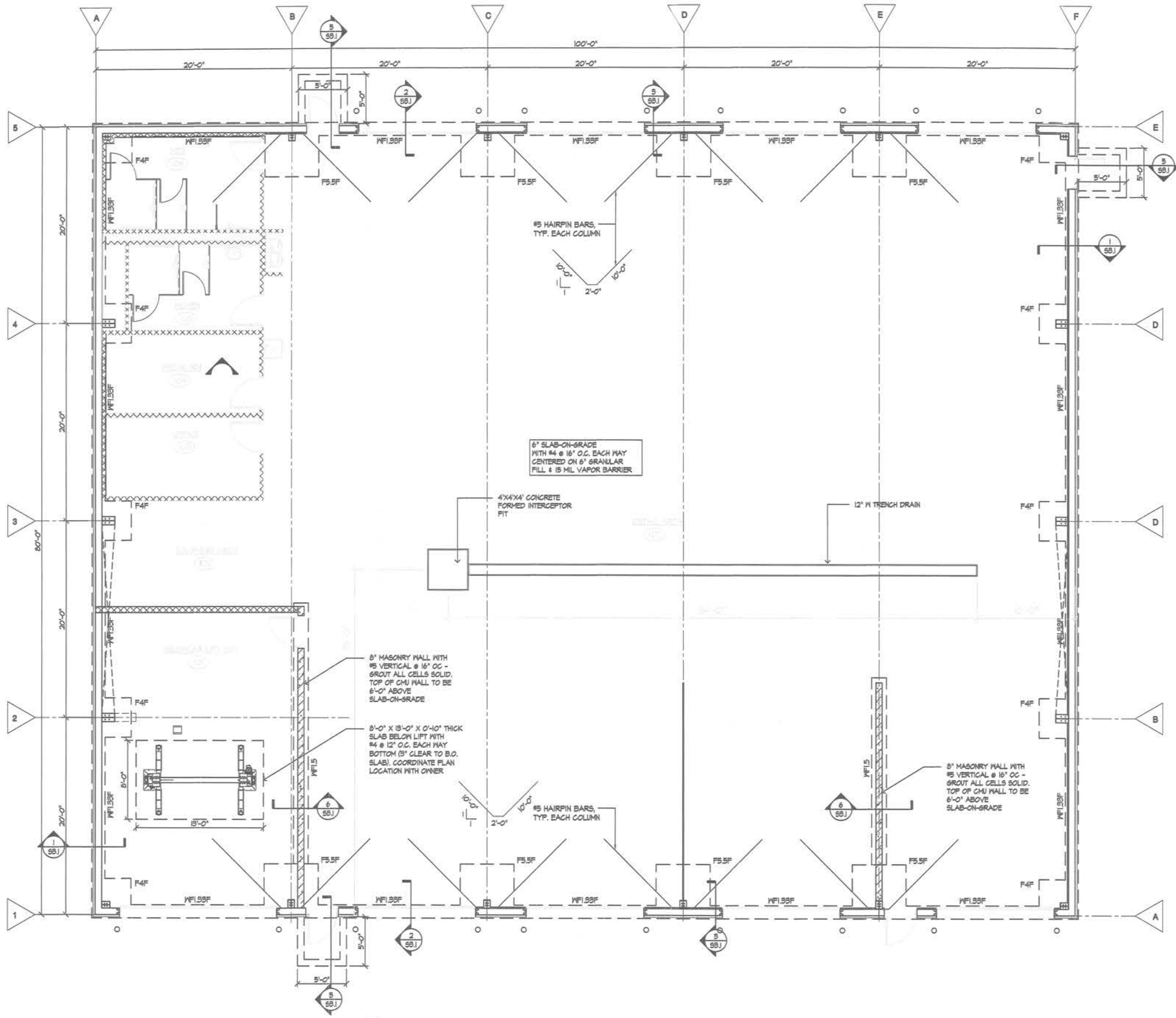
**WOODHOUSE BLAIR DETAIL & ACCESSORY BAY**

2171 S HWY 90  
SUITE 101  
BLAIR, NEBRASKA

**GRID ARCHITECTURE, LLC**  
 T. (402) 860-8825  
 F. (866) 443-7021



**S1.1**  
FOUNDATION PLAN



**FOUNDATION PLAN**  
 3/16" = 1'-0"  
 NORTH  
 NOTES:  
 1. TOP OF FOOTING 99'-4", UNLESS NOTED OTHERWISE.

FOOTING SCHEDULE		
MARK	SIZE (LxWxD)	REINFORCING
NF1.5BF	CONT. x 1'-4" x 8'-6"	(2) #5 CONT. T&B WITH #4 TIES @ 18" O.C.
NF1.5	CONT. x 1'-6" x 11'-0"	(2) #5 X CONT. LONG. & #5 TRANSVERSE @ 12" O.C.
F4F	4'-0" x 4'-0" x 8'-6"	(5) #5 BARS EA. MAY T&B
F5.5F	5'-6" x 5'-6" x 8'-6"	(7) #5 BARS EA. MAY T&B

**GENERAL STRUCTURAL NOTES:**

**A. DESIGN DATA:**

DESIGN CODE:	IBC 2021
CONCRETE 28 DAY STRENGTH:	FC = 4,000 PSI
MISCELLANEOUS ROLLED SECTIONS AND PLATES (ANGLES, CHANNELS, PLATES, ETC.):	ASTM A36
HIGH STRENGTH BOLTS:	ASTM A528
PLAIN BOLTS AND ANCHORS OR GR. 36 (WELDABLE, S):	ASTM F1554 GR. 36
REINFORCING STEEL:	ASTM A615 FY = 60,000 PSI
WELDED WIRE FABRIC:	ASTM A185
ALLOWABLE SOIL BEARING CAPACITY:	1500 PSF (ASSUMED)
<b>DESIGN LOADS</b>	
GRAVITY LOADS:	
FLOORS	LL = 100 PSF
ROOFS	LL = 21 PSF (CE = 1.0, CT = 1.0, AND 1/4 D)**

\*\*INCREASE LIVE LOAD FOR SNOW DRIFTING AS REQUIRED IN CONFORMANCE WITH THE AMERICAN SOCIETY OF CIVIL ENGINEERS ANS/ASCE 7-16.

**WIND LOADING CRITERIA (2021 IBC)**  
 BASE WIND SPEED (3 SECOND GUST) V = 115 MPH  
 BUILDING CATEGORY II  
 IMPORTANCE FACTOR I<sub>w</sub> = 1.0  
 EXPOSURE CATEGORY C

**SEISMIC LOADING CRITERIA (2021 IBC)**  
 SPECTRAL RESPONSE COEFFICIENT SDS = 0.080 &  
 SPECTRAL RESPONSE COEFFICIENT SD1 = 0.072 &  
 IMPORTANCE FACTOR I<sub>e</sub> = 1.0  
 OCCUPANCY CATEGORY II  
 SITE CLASS D  
 SEISMIC DESIGN CATEGORY B  
 SEISMIC FORCE RESISTING SYSTEMS - ORDINARY STEEL  
 CONCENTRICALLY BRACED FRAMES AND ORDINARY STEEL MOMENT FRAMES.

**B. FOUNDATION WORK:**

- BUILDING FOOTINGS ARE DESIGNED FOR ALLOWABLE SOIL BEARING PRESSURE OF 1500 PSF. CONTRACTOR SHALL VERIFY EXISTING SOIL CONDITIONS WITH GEOTECHNICAL ENGINEER FOLLOWING EXCAVATION FOR FOOTINGS AND PRIOR TO PLACEMENT OF FOOTINGS.
- SUBSOILS SUPPORTING OR IN DIRECT CONTACT WITH FOOTINGS, SLABS ON GRADE, OR OTHER FOUNDATION ELEMENTS SHALL BE PROTECTED AGAINST FREEZING CONDITIONS THAT COULD CAUSE MOVEMENT OR OTHER DETRIMENTAL EFFECT TO THE STRUCTURE AS A WHOLE OR TO ANY OF ITS COMPONENT PARTS.
- WHEN WORKING NEAR EXISTING AND/OR NEW CONSTRUCTION THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION SO AS NOT TO UNDERMINE, DISTURB, DAMAGE OR, IN ANY WAY, CAUSE UNDESIRABLE MOVEMENT, CRACKING, AND/OR SETTLEMENT OF THE ADJACENT CONSTRUCTION.
- ALL SLABS ON GRADE SHALL BEAR ON UNDISTURBED VIRGIN SOIL OR PROPERLY COMPACTED BACKFILL/GRANULAR FILL. ANY UNACCEPTABLE UNDISTURBED VIRGIN SOIL OR BACKFILL/GRANULAR FILL, AS DETERMINED BY THE OWNER'S GEOTECHNICAL ENGINEER, SHALL BE REMOVED AND REPLACED AS REQUIRED BY THE GEOTECHNICAL ENGINEER.
- CONTRACTOR SHALL COORDINATE FOOTING ELEVATIONS WITH FINAL GRADING PLAN TO PROVIDE A MINIMUM OF 42" OF GRADE ABOVE THE BOTTOM OF ALL FOOTINGS FOR FROST PROTECTION.

**C. CONCRETE:**

- FOR REINFORCEMENT DEVELOPMENT LENGTH AND SPICE LENGTH SEE TYPICAL REINFORCEMENT TABLE ON THIS SHEET.
- PROVIDE CORNER BARS IN WALLS AND FOOTINGS THE SAME SIZE AND NUMBER AS THE CONTINUOUS REINFORCING.
- REINFORCING IN FOOTINGS SHALL BE ACCURATELY PLACED BEFORE PLACING CONCRETE. DO NOT FLOAT REINFORCING INTO FOOTINGS.
- CONCRETE SHALL BE REGULAR WEIGHT (144 PCF) WITH TYPE I CEMENT, POTABLE WATER, AND AGGREGATES CONFORMING TO REQUIREMENTS OF NEBRASKA DEPARTMENT OF ROADS FOR 4-7-B CONCRETE, UNLESS NOTED OTHERWISE. CONCRETE SHALL CONFORM TO ACI 301-10.
- MECHANICALLY VIBRATE CONCRETE, EXCEPT THAT SLABS ON GRADE NEED BE VIBRATED ONLY AROUND UNDERFLOOR DUCTS AND OTHER ITEMS EMBEDDED IN THE SLAB.
- DO NOT PLACE PIPES, DUCTS, OR CHASES IN STRUCTURAL CONCRETE WITHOUT APPROVAL OF THE ARCHITECT/ENGINEER. SEE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR LOCATIONS.
- CONSTRUCT FORMWORK SO CONCRETE MEMBERS AND STRUCTURES ARE OF SIZE, SHAPE, ALIGNMENT, ELEVATION, AND POSITION INDICATED, WITHIN TOLERANCE LIMITS OF ACI 111.
- CONTROL JOINTS IN SLAB-ON-GRADE SHALL BE PLACED AT COLUMN-LINE INTERSECTIONS AND AS NECESSARY TO NOT EXCEED A SPACING OF 36 TIMES THE SLAB THICKNESS. THE MAXIMUM ASPECT RATIO SHALL BE 15 TO 1 UNLESS NOTED OTHERWISE.
- ALL CONSTRUCTION JOINTS IN CONCRETE WALLS SHALL HAVE A 24" X 44" CONTINUOUS KEYWAY. ALL CONSTRUCTION JOINTS, EXCEPT THOSE DETAILED, SHALL HAVE ARCHITECT/ENGINEER APPROVAL. SEE SPECIFICATIONS FOR OTHER CONSTRUCTION JOINT REQUIREMENTS.
- ALL REINFORCING STEEL SHALL BE DEFORMED NEW BILLETS BARS (#615, GRADE 60), BENT COLD, AND DETAILED, FABRICATED, AND HELD IN PLACE IN ACCORDANCE WITH THE MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES' (ACI 315 LATEST EDITION) EXCEPT AS OTHERWISE DETAILED OR SPECIFIED.
- THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT, UNLESS NOTED OTHERWISE:  
 CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 5"  
 CONCRETE EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: SLABS AND WALLS 1"

ALL REINFORCING IN SLABS AND WALLS SHALL BE CONTINUOUS UNLESS DETAILED OTHERWISE AND LAP SPICES ONLY IN REGIONS OF LOW STRESS. ALL BARS SHALL HAVE A STANDARD HOOK WHERE A HOOK IS SHOWN, UNLESS DETAILED OTHERWISE.

*City of Blair  
 needs a copy of  
 All welding artifacts*

**D. STEEL:**

- STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST AISC SPECIFICATIONS AND OSHA REGULATION 29 CFR PART 1926.
- COMPLY WITH AMERICAN WELDING SOCIETY STANDARDS. ALL WELDERS SHALL HAVE VALID CERTIFICATES AND HAVE CURRENT EXPERIENCE IN TYPE OF WELD CALLED FOR.
- WELDING ELECTRODES SHALL BE E70 FOR ALL STEEL, UNLESS NOTED OTHERWISE.
- ANCHOR RODS FOR COLUMN BASE PLATES SHALL BE SECURED IN PLACE WITH A TEMPLATE AND SECURELY TIED TO REINFORCING BARS BEFORE PLACING OF CONCRETE.
- ANCHOR ROD HOLES IN BASE PLATES MAY BE OVERSIZED PER TABLE 14-2 OF THE BRD ED. OF THE LRFD MANUAL. IF OVERSIZED HOLES ARE USED, WASHER PLATES SHALL BE PROVIDED AS SPECIFIED AND FIELD WELDED TO THE BASE PLATES.

**E. LIGHT GAUGE METAL:**

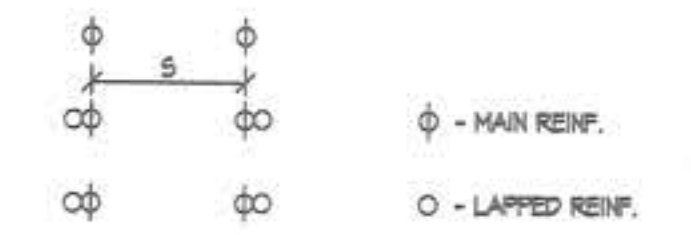
- LIGHT GAUGE METAL FRAMING SHALL BE DESIGNED AND MANUFACTURED IN ACCORDANCE WITH THE LATEST EDITION OF THE NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS AND THE COLD FORMED STEEL FRAMING DESIGN GUIDE OF THE AMERICAN IRON AND STEEL INSTITUTE.
- PROVIDE TRACKS, BLOCKING, LINTELS, CLIP ANGLES, STRAP BRACING, SHOES, REINFORCEMENTS, FASTENERS, AND ACCESSORIES TO PROVIDE A COMPLETE METAL FRAME SYSTEM.
- ISOLATE PARTITIONS FROM STRUCTURAL ELEMENTS WITH SLIP OR CUSHION-TYPE JOINTS BETWEEN STEEL FRAMING AND STRUCTURE AS RECOMMENDED BY STEEL FRAMING MANUFACTURER TO PREVENT TRANSFER OF STRUCTURAL LOADS OR MOVEMENTS TO PARTITIONS.
- INSTALL HORIZONTAL BRIDGINS IN WALL SYSTEM AS REQUIRED BY METAL STUD SUPPLIER. MINIMUM BRIDGING SPACING SHALL BE 410' O.C. (VERTICAL DISTANCE) UNTIL PERMANENT INTERIOR WALL SHEATHING IS INSTALLED.
- FASTEN PLYWOOD WITH 1/2 INCH TEK SCREWS AT 6 INCH AT ALL SUPPORTS AND EDGES.
- BEARING STUDS MUST BE FABRICATED WITH FULL STUD END SEATED AGAINST TRACK WEB. DO NOT USE STUD THAT HAS BEEN CUT.
- PROVIDE DOUBLE METAL STUD AROUND ALL OPENINGS IN STUD WALL SYSTEM AT JAMBS, HEADS, AND SILLS. WELD AT ALL INTERSECTIONS.

**F. INSPECTIONS:**

- IN ACCORDANCE WITH 2021 IBC SECTION 1705, AS NOTED BELOW, TESTING AND INSPECTION SHALL BE BY AN INDEPENDENT TESTING/INSPECTION FIRM UNDER THE SUPERVISION OF A LICENSED ENGINEER EMPLOYED BY THAT FIRM. THIS ENGINEER SHALL BE DESIGNATED BY THE ARCHITECT/ENGINEER OF RECORD FOR SPECIAL INSPECTIONS PERFORMED BY HIS FIRM OR HIS CONSULTANTS. INSPECTORS SHALL BE ICBO CERTIFIED AND APPROVED BY THE BUILDING OFFICIAL.
- THE DESIGNATED ENGINEER OF RECORD FOR SPECIAL INSPECTIONS SHALL BE RESPONSIBLE FOR DEFINING THE ACTIVITIES OF THE INSPECTORS, FOR CERTIFYING THE QUALIFICATIONS OF THE INSPECTORS WITH THE BUILDING OFFICIAL, AND TO ATTEND THE PRE-CONSTRUCTION MEETING TO DEFINE THEIR SCOPE OF SERVICES AND THE TESTING OR TEST PROCEDURES THAT ARE REQUIRED AS OUTLINED IN THE INTERNATIONAL BUILDING CODE.
- SPECIAL INSPECTION IS TO BE PROVIDED IN ADDITION THE INSPECTIONS CONDUCTED BY THE LOCAL DEPARTMENT OF BUILDING SAFETY AND SHALL NOT BE CONSIDERED TO RELIEVE THE OWNER OR HIS AUTHORIZED AGENT FROM REQUESTING THE PERIODIC AND CALLED INSPECTIONS REQUIRED BY SECTION 104.4 OF THE INTERNATIONAL BUILDING CODE.
- SPECIAL INSPECTIONS REQUIRED INCLUDE, BUT MAY NOT BE LIMITED TO, THE FOLLOWING:
  - CONCRETE PER SECTION 1705.3 AND TABLE 1705.3 AND ALL APPLICABLE EXCEPTIONS.
  - ANCHOR RODS INSTALLED IN CONCRETE PER TABLE 1705.3.
  - REINFORCING PER TABLE 1705.2.2 AND EXCEPTION FOR CONCRETE REQUIRING SPECIAL INSPECTION.
  - WELDING: PER SECTION 1705.5.
  - EXPANSION BOLT, SCREW ANCHOR AND ADHESIVE ANCHOR INSTALLATION TO VERIFY INSTALLATION IN ACCORDANCE WITH ICBO REPORTS NOTED PREVIOUSLY OR APPROVED EQUAL.
- OTHER:
  - UNLESS NOTED OTHERWISE EXPANSION ANCHORS SHALL BE HILTI KWIK BOLT 5 EXPANSION ANCHORS OR APPROVED EQUAL. ADHESIVE (EPOXY) ANCHORS SHALL CONSIST OF HILTI STANDARD HAS-E RODS WITH THE HIT-HY 200 ADHESIVE SYSTEM OR APPROVED EQUAL. INSTALL ANCHOR PER MANUFACTURER'S REQUIREMENTS.
  - VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO STARTING WORK. NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES OR INCONSISTENCIES.
  - VERIFY IN FIELD ALL EXISTING CONDITIONS SHOWN ON DRAWINGS.
  - ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR MECHANICAL, ELECTRICAL, AND PLUMBING WITH APPROPRIATE TRADES. PROVIDE ALL TEMPORARY BRACING, SHORING, SHUTTING, OR OTHER MEANS TO AVOID EXCESSIVE STRESSES AND TO HOLD STRUCTURAL ELEMENTS IN PLACE DURING CONSTRUCTION.
  - ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE STAMP (AND SIGNATURE) OF AN ENGINEER REGISTERED IN NEBRASKA.

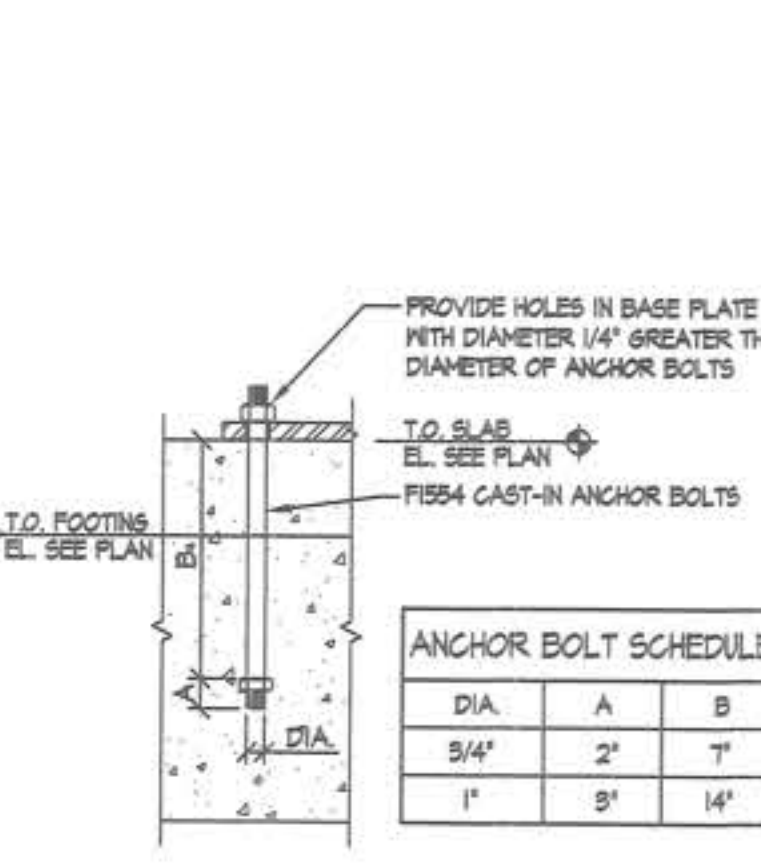
**TYPICAL REINFORCING NOTES:**

- REINFORCING BAR DEVELOPMENT AND LAP SPICE LENGTH SHALL BE AS SHOWN IN THIS TABLE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- THE LENGTHS SHOWN IN THE TABLE ARE BASED ON THE FOLLOWING CONCRETE COVERAGE AND REINFORCING C-C SPACING:  
 BEAMS OR COLUMNS:  
 COVER (EQUAL OR MORE) 1.0d (BAR DIAMETER)  
 CENTER TO CENTER (C-C) SPACING (EQUAL OR MORE) 2.0d.  
 ALL OTHERS:  
 COVER (EQUAL OR MORE) 1.0d  
 CENTER TO CENTER SPACING (EQUAL OR MORE) 3.0d.
- TOP BARS ARE DEFINED AS HORIZONTAL REINFORCEMENT SUCH THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE DEVELOPMENT LENGTH OR SPICE.
- DEVELOPMENT AND SPICE LENGTH SHALL NOT APPLY IF ANY OF THE FOLLOWING CONDITIONS OCCUR:  
 A) FC < 4000 PSI  
 B) fy > 60000 PSI  
 C) THE COVER OR C-C BAR SPACING IS NOT AS LISTED ABOVE  
 D) THE REINFORCING STEEL IS EPOXY COATED  
 E) LIGHT WEIGHT CONCRETE IS USED.
- CENTER ON CENTER SPACING (S) IS DEFINED AS BELOW:



**REINFORCING DEVELOPMENT AND SPICES**  
 FC = 4,000 PSI

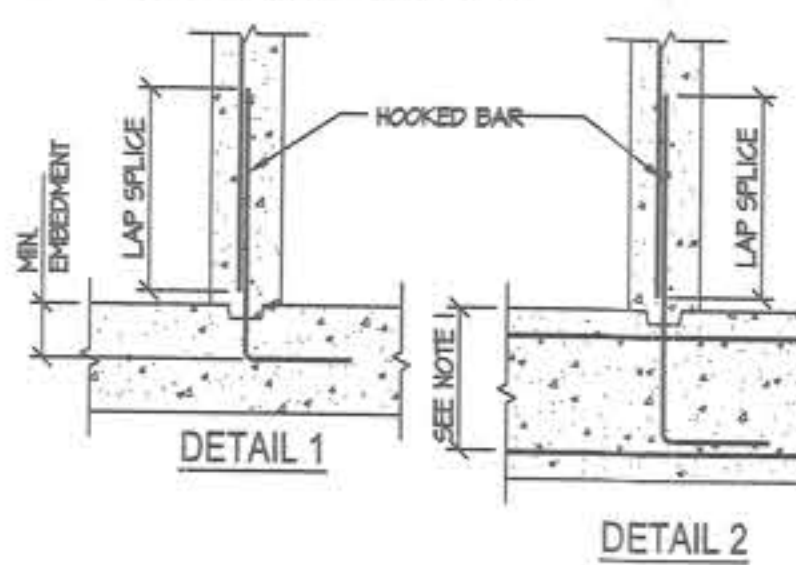
BAR SIZE	DEVELOPMENT LENGTH		SPICE LENGTH	
	OTHER	TOP	OTHER	TOP
#3	1'-8"	1'-7"	1'-7"	2'-0"
#4	1'-7"	2'-1"	2'-1"	2'-8"
#5	2'-0"	2'-7"	2'-7"	3'-4"
#6	2'-5"	3'-1"	3'-1"	4'-0"
#7	3'-8"	4'-6"	4'-6"	5'-10"
#8	4'-0"	5'-2"	5'-2"	6'-8"
#9	4'-6"	5'-10"	5'-10"	7'-1"
#10	5'-1"	6'-7"	6'-7"	8'-6"
#11	5'-7"	7'-5"	7'-5"	9'-5"



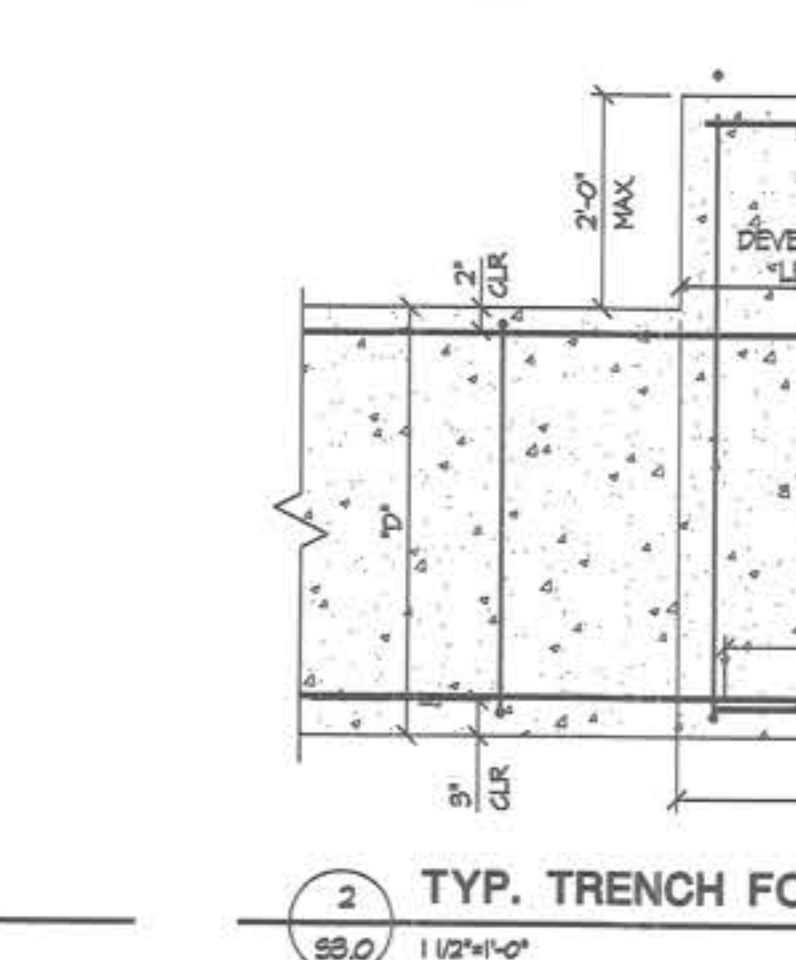
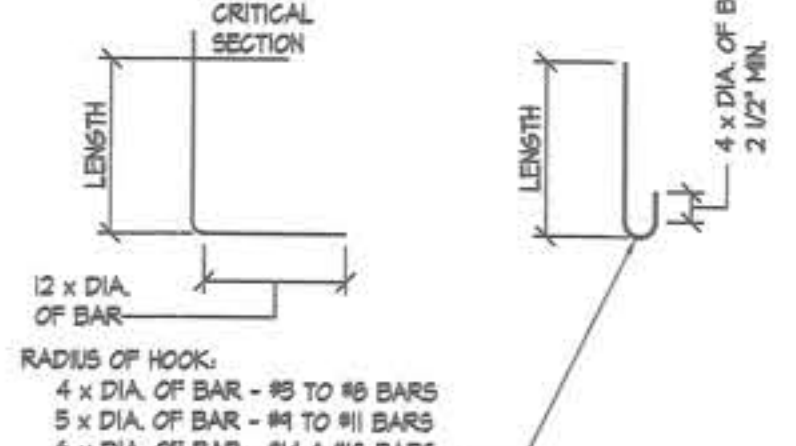
**1 ANCHOR BOLT SCHEDULE**  
 SS.D 1 1/2"x1'-0"

**DEVELOPMENT LENGTH NOTES:**

- WHERE DRAWINGS ARE DETAILED SIMILAR TO DETAIL 2, EXTEND THE EMBEDMENT LENGTH SUCH THAT THE HOOKED BAR CONTACTS THE LAYER OF MAIN REINFORCING SHOWN.
- EMBEDMENT LENGTHS IN CHART ARE TYPICAL EXCEPT AS NOTED IN DETAIL 2, OR AS INDICATED ON DRAWINGS.

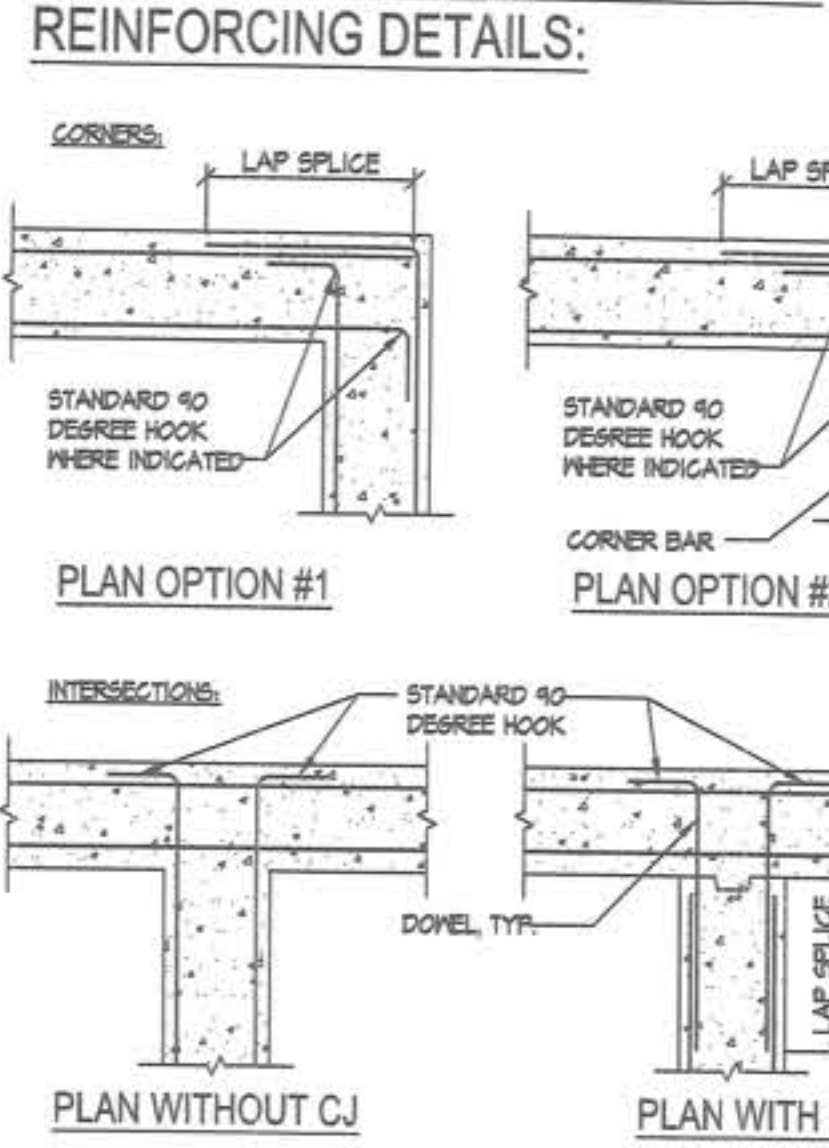


BAR SIZE	LENGTH OR MIN. EMBEDMENT
#3	7"
#4	10"
#5	1'-0"
#6	1'-5"
#7	1'-8"
#8	1'-7"
#9	1'-10"
#10	2'-0"
#11	2'-5"



**2 TYP. TRENCH FOOTNG STEP DETAIL**  
 SS.D 1 1/2"x1'-0"

**HORIZONTAL WALL AND FOOTING REINFORCING DETAILS:**



- NOTES:**
- UNLESS OTHERWISE INDICATED, THE CONTRACTOR HAS THE OPTION OF REINFORCING CORNERS IN ACCORDANCE WITH OPTION #1 OR OPTION #2.
  - UNLESS OTHERWISE INDICATED, THE CONTRACTOR HAS THE OPTION OF CONSTRUCTING INTERSECTIONS WITH OR WITHOUT CONSTRUCTION JOINTS. REINFORCE PER APPLICABLE DETAIL.
  - VERTICAL REINFORCING NOT SHOWN FOR CLARITY.
  - FOR LOCATIONS WITH ONLY ONE RUN OF HORIZONTAL REINFORCING, PROVIDE LAP SPICES AS SHOWN FOR OUTSIDE LAYER OF REINFORCING SHOWN ABOVE.
  - FOR LOCATIONS WITH COLUMN SPREAD FOOTINGS, NO HOOKED BARS OR DOVELS ARE REQUIRED AS LONG AS HORIZONTAL WALL AND FOOTING REINFORCING HAS ADEQUATE DEVELOPMENT OR SPICE LENGTH INTO SPREAD FOOTINGS.

**PERFORMANCE Engineering**  
 11811 Ford Street, Suite 104 - Omaha, NE 68164  
 (402) 343-5960 Fax: (402) 343-5961  
 NE-CX2455  
 369 Perry St., Suite 204A - Castle Rock, CO 80104  
 (303) 721-3322  
 PE #: 240336

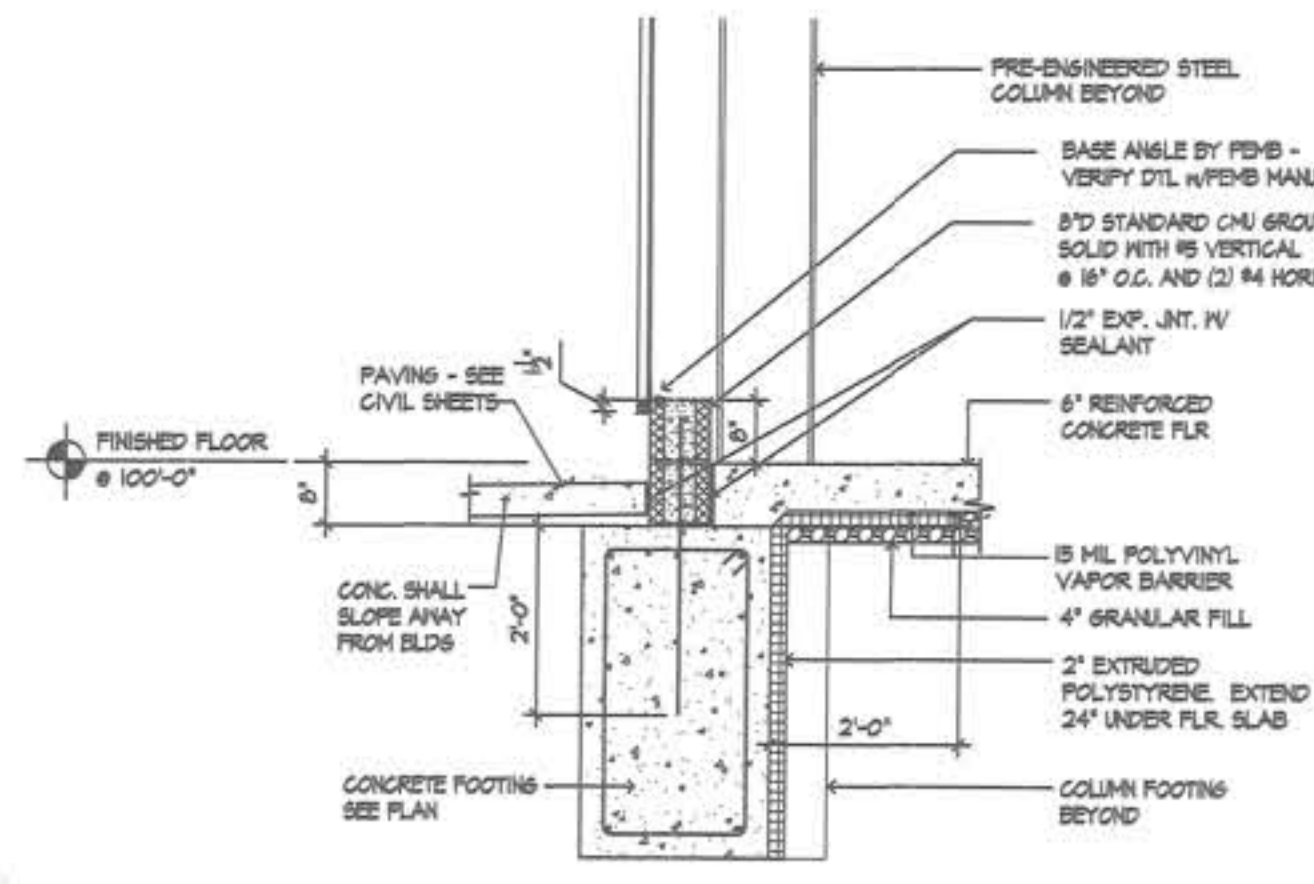
REVISIONS/DATES		
NO.	DATE	DESCRIPTION

**WOODHOUSE BLAIR DETAIL & ACCESSORY BAY**  
 27TH & HWY 30  
 SUITE 101  
 BLAIR, NEBRASKA

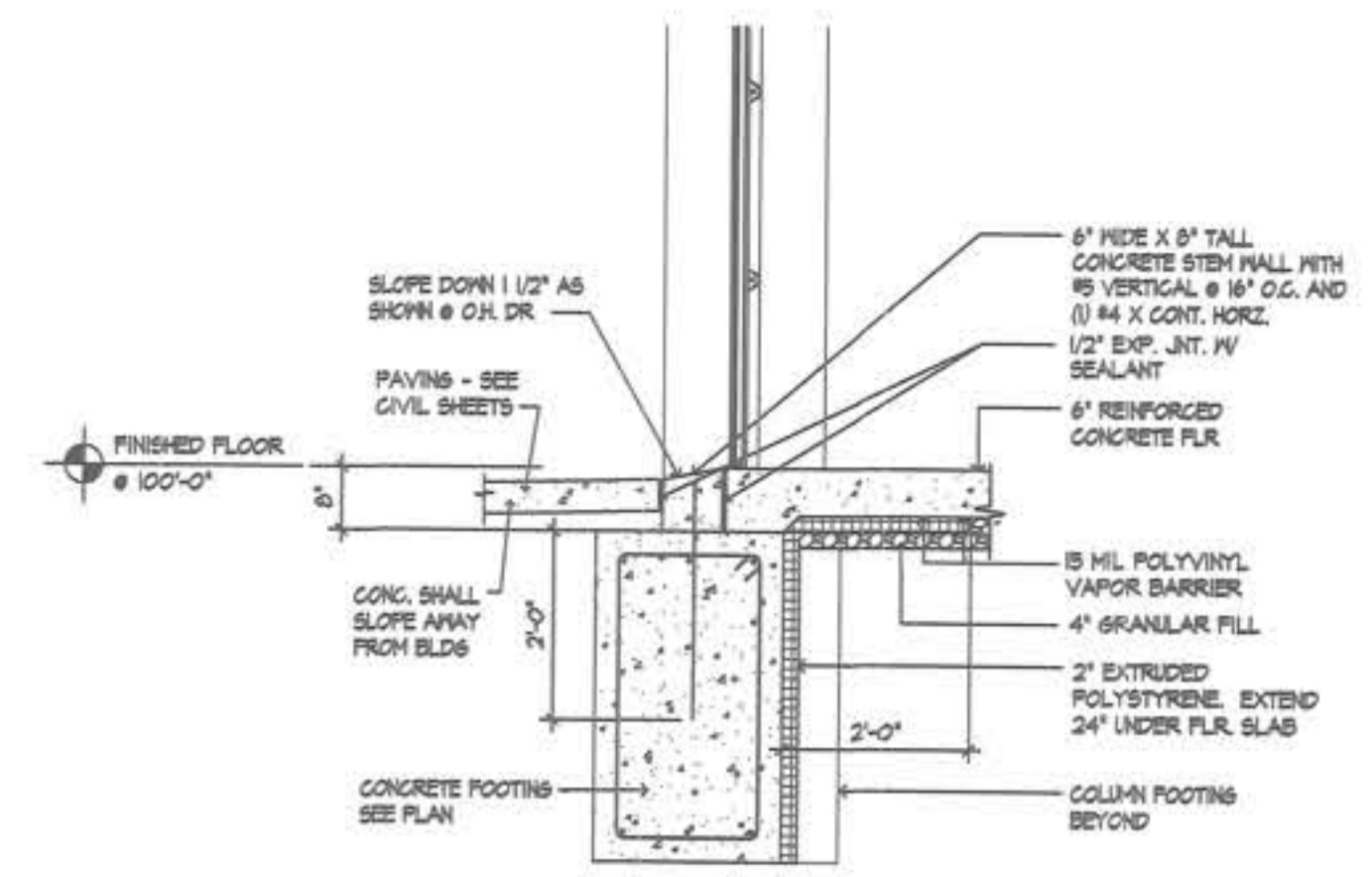
**GRID ARCHITECTURE, LLC**  
 T: (402) 960-0625  
 F: (686) 4457-021

**PROFESSIONAL CIVIL ENGINEER**  
 ROBERT A. WAGNER  
 E-9692  
 STATE OF NEBRASKA

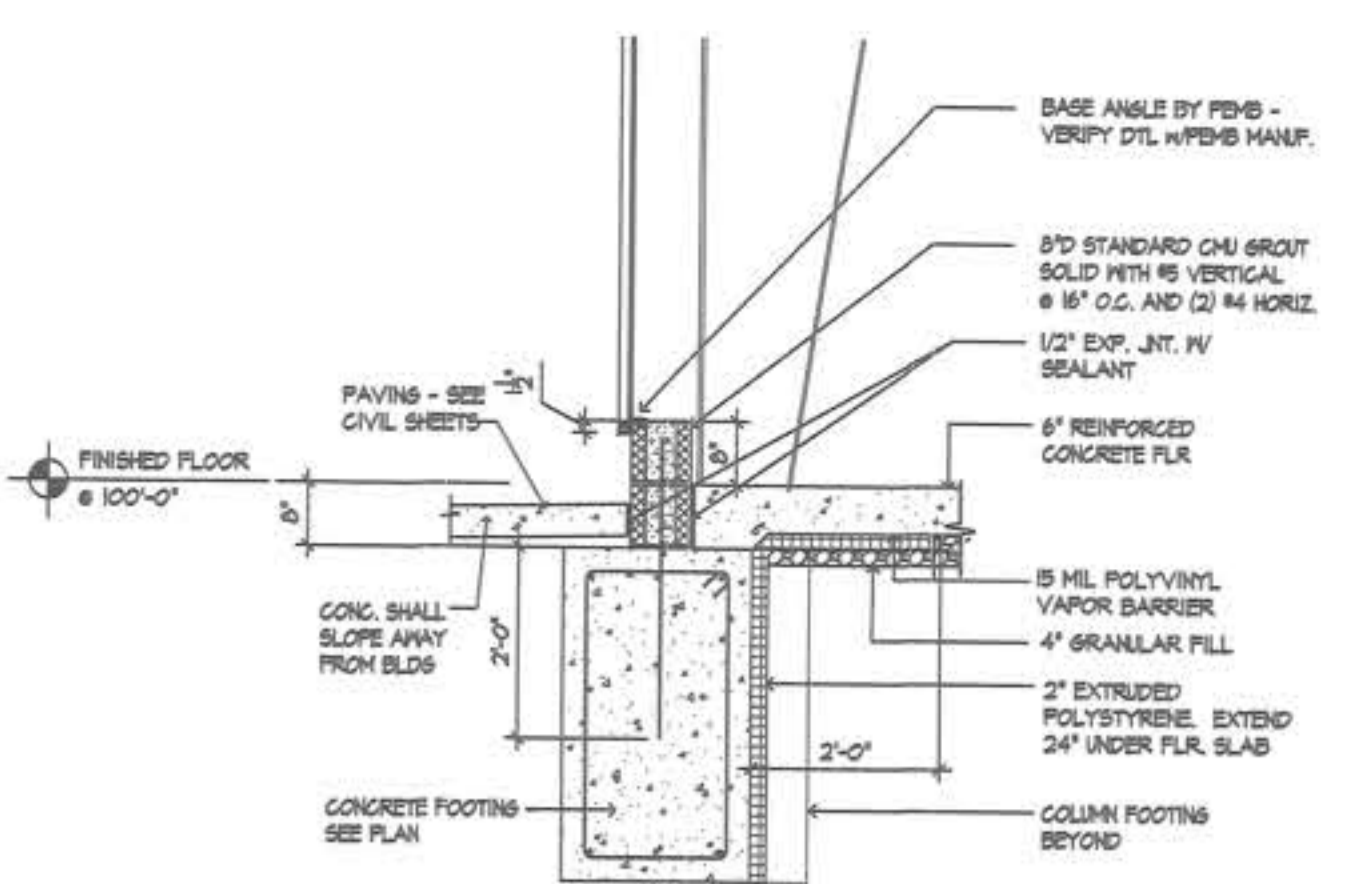




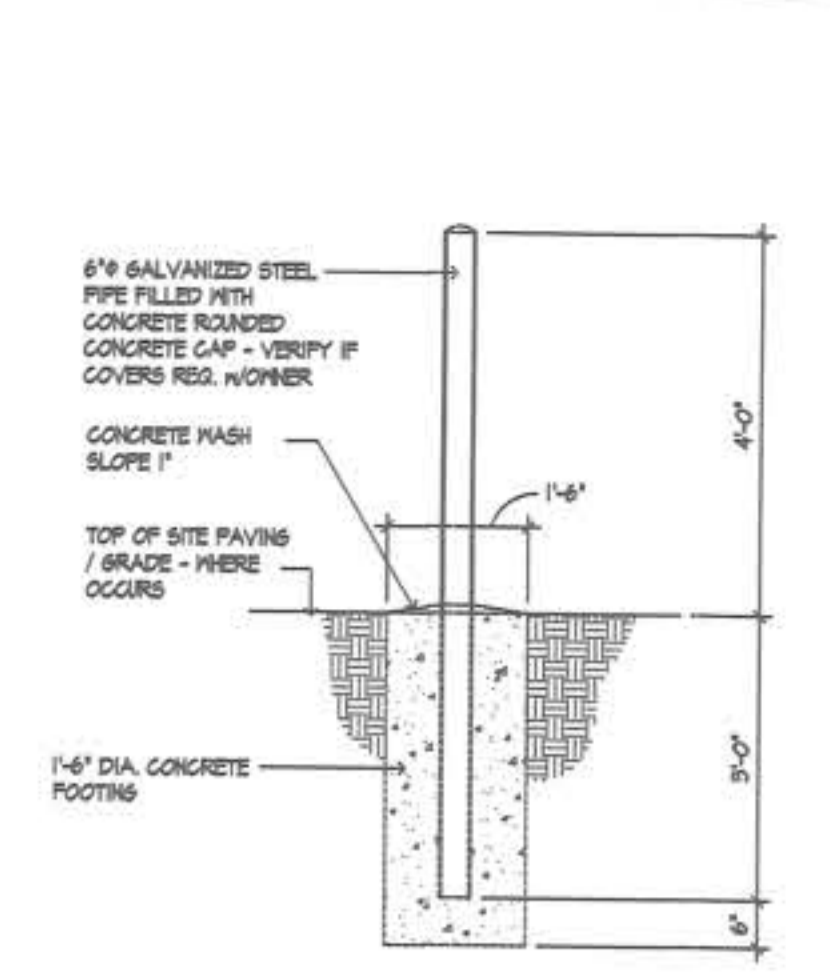
1 FOUNDATION SECTION (REF. 1/A3.1)  
 SB.1 1/2" = 1'-0"



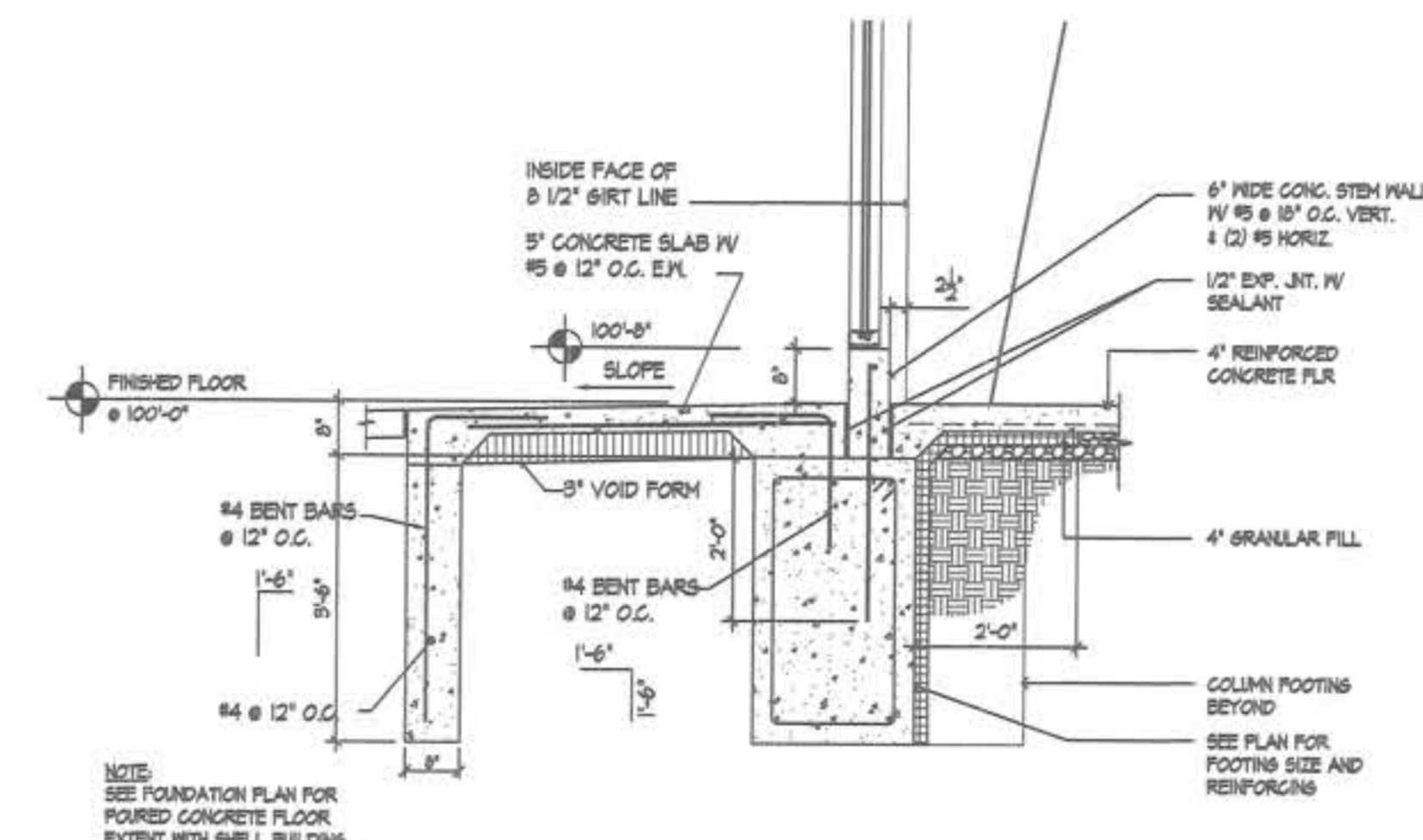
2 FOUNDATION SECTION (REF. 2/A3.1)  
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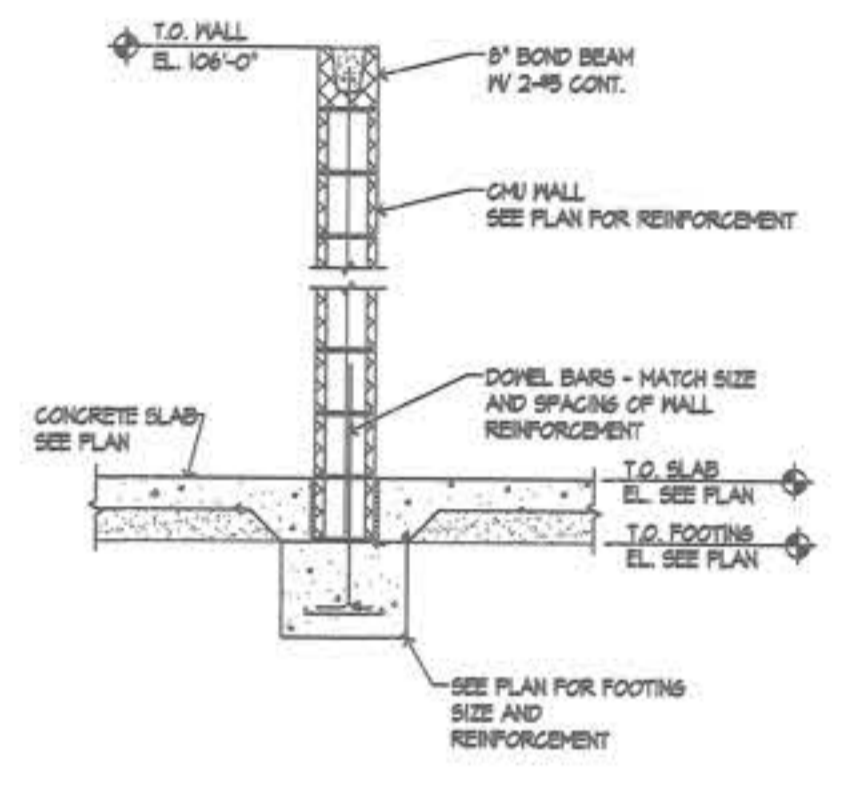
3 FOUNDATION SECTION (REF. 3/A3.1)  
 SB.1 1/2" = 1'-0"



4 TYP. BOLLARD DETAIL  
 SB.1 1/2" = 1'-0"



5 STOOP SECTION  
 SB.1 1/2" = 1'-0"



6 INTERIOR FOOTING SECTION  
 SB.1 1/2" = 1'-0"

**PERFORMANCE Engineering**  
 11811 Fort Street, Suite 104 - Omaha, NE 68164  
 (402) 343-3860 Fax: (402) 343-3861  
 NE-CAD655  
 389 Perry St., Suite 204A - Castle Rock, CO 80104  
 (303) 721-5322  
 PE # 240336

REVISIONS/DATES	
NO.	DATE DESCRIPTION

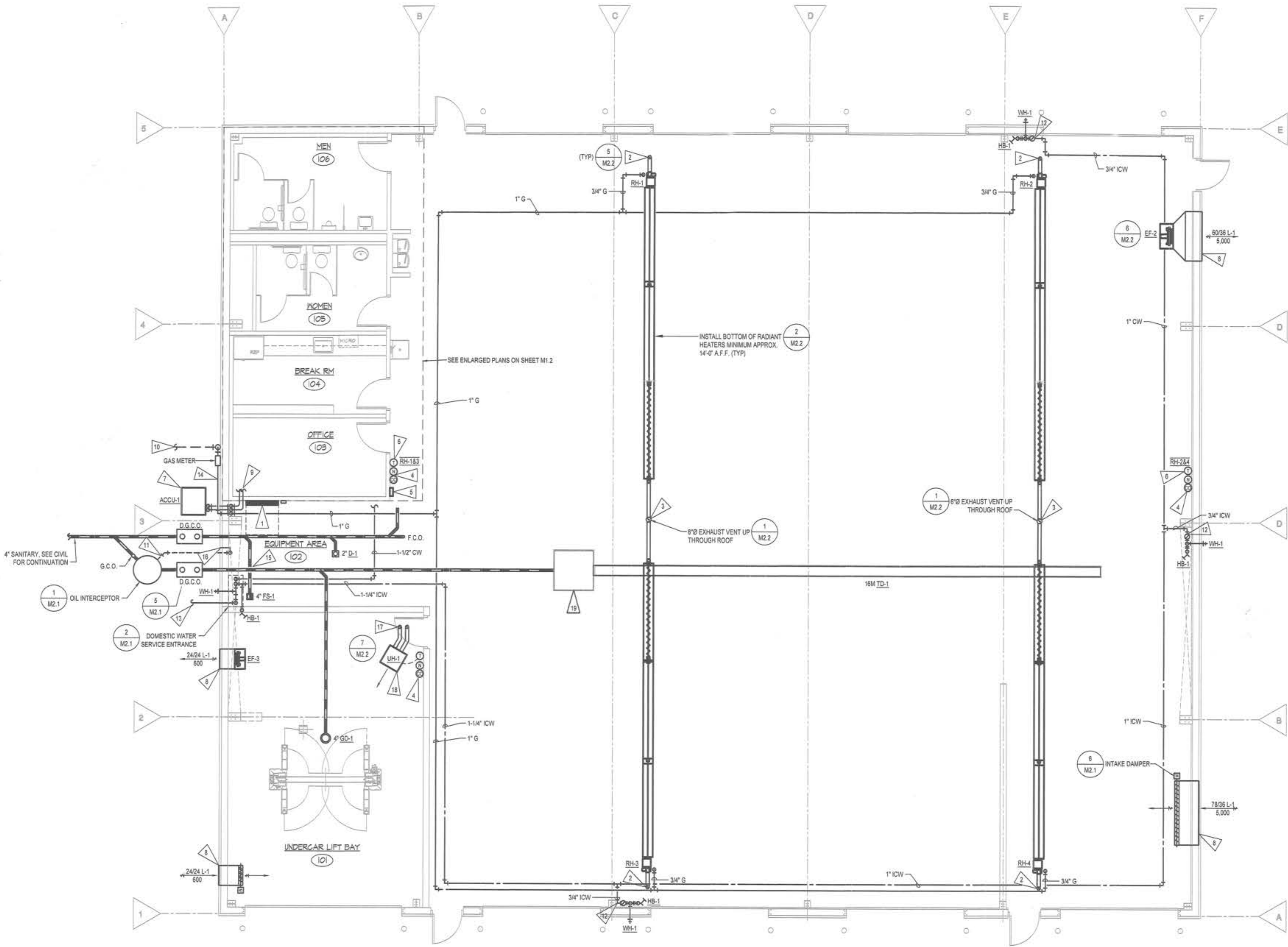
**WOODHOUSE BLAIR DETAIL & ACCESSORY BAY**  
 2171 S HWY 30  
 SUITE 101  
 BLAIR, NEBRASKA

CREATE + BUILD + INSURE

**GRID ARCHITECTURE, LLC**  
 T: (402) 960-6625  
 F: (866) 443-7821



**S3.1**  
 SECTIONS AND DETAILS  
 - BLDG A



**FLOOR PLAN - MECHANICAL**  
 3/16" = 1'-0"



**MECHANICAL GENERAL NOTES**

- DO NOT ROUTE DUCTWORK OR PIPING ABOVE ELECTRICAL PANELS. MAINTAIN ALL CODE REQUIRED CLEARANCES.
- CAULK AROUND ALL DUCTWORK AND PIPING PENETRATIONS THROUGH FULL HEIGHTS WALLS. REFER TO ARCHITECTURAL DRAWINGS FOR WALL CONSTRUCTIONS.
- ROUND RUNOUTS TO DIFFUSERS SHALL BE THE SAME SIZE AS THE NECK UNLESS OTHERWISE NOTED. SEE DIFFUSER CONNECTION DETAIL 3 ON SHEET M2.2.
- LOCATE VOLUME DAMPERS IN ACCESSIBLE LOCATIONS. COORDINATE ALL LOCATIONS WITH REFLECTED CEILING PLANS, GENERAL CONTRACTOR, AND ARCHITECT. MAINTAIN ACCESSIBILITY TO ALL DAMPERS.
- CONTRACTOR TO PROVIDE ALL LOW VOLTAGE CONTROL WIRING REQUIRED FOR COMPLETE OPERATION OF ALL MECHANICAL EQUIPMENT.
- PROVIDE VOLUME DAMPER IN EACH SUPPLY AIR BRANCH OFF OF MAIN DUCTWORK AS INDICATED ON PLAN.
- COORDINATE ALL ROOF, FLOOR, AND WALL PENETRATIONS WITH GENERAL CONTRACTOR. SEAL ALL PENETRATIONS WATER TIGHT.
- SEE DETAIL 3, SHEET M2.2 FOR GENERAL DUCTWORK DETAILS.
- PLANS ARE SCHEMATIC IN NATURE. CONTRACTOR SHALL COORDINATE ALL DUCT AND PIPING ROUTING WITH ALL OTHER TRADES. CONTRACTOR SHALL PROVIDE ALL ADDITIONAL OFFSETS AND TRANSITIONS AS REQUIRED TO COMPLETE INSTALLATION.
- PLANS ARE SCHEMATIC IN NATURE. COORDINATE EXACT ROUTING AND EQUIPMENT LOCATIONS WITH ALL OTHER TRADES. PROVIDE ALL ADDITIONAL OFFSETS AS REQUIRED TO COMPLETE INSTALLATION.
- INSTALL ALL ISOLATION VALVE IN ACCESSIBLE LOCATIONS.
- ALL PIPING SHOWN FOR CLARITY. ROUTE WASTE, VENT, WATER, AND GAS PIPING CONCEALED IN CHASES, IN WALLS, OR ABOVE CEILINGS AS REQUIRED.
- DO NOT ROUTE WATER PIPING IN EXTERIOR WALLS UNLESS OTHERWISE NOTED. PIPING ROUTED IN EXTERIOR WALLS SHALL BE LOCATED ON THE INTERIOR SIDE OF INSULATION.
- NOT ALL CLEANOUTS MAY BE SHOWN. PROVIDE CLEANOUTS PER LOCAL PLUMBING CODE REQUIREMENTS. EXTEND CLEANOUTS TO WALLS WHERE APPLICABLE. COORDINATE CLEANOUT LOCATIONS WITH GENERAL CONTRACTOR.
- SEE WASTE AND VENT RISER DIAGRAM ON SHEET M1.2 FOR COMPLETE WASTE & VENT PIPE SIZES.
- SEE PLUMBING FIXTURE SCHEDULE SHEET M2.4 FOR PLUMBING FIXTURE CONNECTION REQUIREMENTS.
- SEE PIPE INSULATION DETAIL 7, SHEET M2.1. ALL INSULATED PIPING SHALL BE INSTALLED PER DETAIL.

**EMERGENCY VENTILATION SYSTEM AND CONTROL NOTES**

- MECHANICAL CONTRACTOR SHALL PROVIDE COMPLETE HONEYWELL OR EQUIVALENT CONTROL SYSTEM WITH CARBON MONOXIDE AND NITROGEN DIOXIDE DETECTORS AS SHOWN ON PLANS. SUBMIT ALTERNATE MANUFACTURER'S FOR ENGINEER'S APPROVAL PRIOR TO BIDDING.
- SYSTEM SHALL CONSIST OF THE FOLLOWING:
  - HONEYWELL CONTROL PANEL
  - CARBON MONOXIDE (CO) ELECTROCHEMICAL TRANSMITTER/ANALYZERS
  - NITROGEN DIOXIDE (NO2) ELECTROCHEMICAL TRANSMITTER/ANALYZERS
  - SEE PLANS FOR SENSOR LOCATIONS.
- AT EACH SENSOR LOCATION SHOWN ON THE PLANS, INSTALL CO AND NO2 TRANSMITTER/ANALYZER AT 48" A.F.F.
- THE SYSTEM SHALL ACTIVATE THE FANS AND OPEN THE MOTORIZED DAMPER ON THE INTAKE LOUVER BASED ON THE SEQUENCE OF OPERATIONS BELOW:
  - ALARM LEVEL:
    - IF CO OR NO2 SETPOINT IS EXCEEDED FOR 30 SECONDS, THE INTAKE DAMPERS AND EXHAUST DAMPERS SHALL OPEN AND SPACE EXHAUST FAN SHALL OPERATE.
    - EXHAUST FAN SHALL CONTINUE TO OPERATE UNTIL GAS LEVEL DROPS BELOW GRA THRESHOLD SAFE LIMIT FOR A MINIMUM OF 10 MINUTES.
    - ACTIVATE STROBE LIGHT (RED).
    - IF MAXIMUM AVERAGE CO CONCENTRATION EXCEEDS 50 PPM DURING ANY EIGHT-HOUR PERIOD, THE EXHAUST FAN SHALL BE ENABLED AND OPERATE UNTIL THE GAS LEVELS DROP BELOW USER DEFINED THRESHOLD.
    - IF MAXIMUM AVERAGE CO CONCENTRATION EXCEEDS 200 PPM DURING ANY EIGHT-HOUR PERIOD, AN ALARM SHALL BE GENERATED AND EXHAUST FAN SHALL BE ENABLED AND OPERATE UNTIL GAS LEVELS DROP BELOW USER DEFINED THRESHOLD.
    - A MANUAL 2-HOUR SPRING-WOUND TIMER SHALL BE PROVIDED TO ALLOW MANUAL OPERATION OF THE FANS.
  - ALL LOW VOLTAGE WIRING FOR GAS DETECTION SYSTEM SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR. COORDINATE THE INSTALLATION OF THE CONTROL WIRING WITH THE ELECTRICAL CONTRACTOR.
  - ELECTRICAL CONTRACTOR SHALL PROVIDE POWER FOR THE FANS AND DAMPERS AND ANY LINE VOLTAGE WIRING REQUIRED. COORDINATE WITH ELECTRICAL CONTRACTOR TO PROVIDE A HAND/OFF/AUTO SWITCH TO ALLOW MANUAL ACTIVATION OF FANS.
  - SYSTEM SETPOINTS - THE SETPOINTS SHALL BE OPERATOR CHANGEABLE AND INITIALLY SET AS FOLLOWS:
    - ALARM SETPOINTS:
      - CO SHALL BE 25 PPM
      - NO2 SHALL BE 2 PPM
      - GAS THRESHOLD SAFE LIMITS SHALL BE 10% BELOW CO / NO2 ALARM SETPOINTS.
      - GARAGE EXHAUST SYSTEM RUNTIME ALARM SHALL BE 10 MINUTES.
      - LOW SPACE TEMPERATURE ALARM SETPOINT SHALL BE 50°F.
    - FAILURE POSITIONS - THE FOLLOWING SHALL OCCUR UPON COMPONENT FAILURE OR LOSS OF POWER:
      - MOTORIZED EXHAUST DAMPERS SHALL BE CLOSED.
      - EXHAUST FAN SHALL BE OFF.
      - MOTORIZED SUPPLY DAMPERS SHALL BE CLOSED.

**KEYNOTES**

- DO NOT ROUTE DUCTWORK OR PIPING ABOVE ELECTRICAL PANELS. MAINTAIN ALL CODE REQUIRED CLEARANCES.
- COMBUSTION AIR UP THROUGH ROOF TO VENT CAP. SIZE PER MANUFACTURER'S RECOMMENDATIONS. SEAL PENETRATION WATER TIGHT. SEE DETAIL 5, SHEET M2.2.
- FLUE UP THROUGH ROOF TO VENT CAP. SIZE PER MANUFACTURER'S RECOMMENDATIONS. SEAL PENETRATION WATER TIGHT. SEE DETAIL 1, SHEET M2.2. MAINTAIN A MINIMUM OF 10'-0" CLEARANCE TO ALL OUTSIDE AIR INTAKES.
- CO SENSOR AND NO2 SENSOR AT 48" A.F.F. FOR EMERGENCY VENTILATION CONTROL SYSTEM. SEE SPECIFICATIONS FOR ADDITIONAL DETAILS ON EMERGENCY VENTILATION SYSTEM.
- LOCAL CONTROL PANEL FOR EMERGENCY VENTILATION CONTROL WITH CARBON MONOXIDE AND NITROGEN DIOXIDE DETECTORS AS SHOWN ON PLANS. ALL LOW VOLTAGE CONTROL WIRING FOR GAS DETECTION SYSTEM SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR. COORDINATE INSTALLATION OF THE CONTROL WIRING WITH THE ELECTRICAL CONTRACTOR.
- PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT. ALIGN HEIGHT ON WALL WITH OTHER SWITCHES AND SENSORS. ROUGH-IN BY ELECTRICAL CONTRACTOR. COORDINATE EXACT LOCATION WITH OWNER, ARCHITECT, AND GENERAL CONTRACTOR PRIOR TO ROUGH-IN.
- PROVIDE CONDENSING UNIT ON CONCRETE PAD PER MANUFACTURER'S RECOMMENDATIONS. MAINTAIN MANUFACTURER'S REQUIRED CLEARANCES AROUND UNIT.
- INSTALL B.O. LOUVER AS HIGH AS POSSIBLE (APPROX. 11'-6" A.F.F.)
- ROUTE REFRIGERANT PIPING THROUGH WALL DOWN LOW. ROUTE AS DIRECT AS POSSIBLE TO INDOOR COIL. INSULATE PER SPECIFICATIONS. PROVIDE SLEEVE AT EXTERIOR WALL AND SEAL WEATHER TIGHT.
- 3" PSIG GAS SERVICE BY LOCAL UTILITY. MECHANICAL CONTRACTOR TO PROVIDE ALL PIPING DOWNSTREAM OF SERVICE ENTRANCE. COORDINATE WITH UTILITY COMPANY. TOTAL CONNECTED LOAD = 584 CFH.
- ROUTE 4" VENT BELOW GRADE FROM OIL INTERCEPTOR TO INSIDE BUILDING AND TERMINATE PER LOCAL CODE REQUIREMENTS.
- ROUTE CW DOWN TIGHT TO WALL. PROVIDE ISOLATION VALVE IN CW RISER AT APPROXIMATELY 6'-0" A.F.F. PROVIDE HOSE BIBBS AT 48" A.F.F. AND WALL HYDRANTS AT 18" A.F.F.
- 1-1/2" WATER SERVICE. SEE CIVIL FOR CONTINUATION. BURY MIN. 3 FEET BELOW GRADE.
- ROUTE 1" GAS THROUGH WALL DOWN LOW AT METER EXITING ELEVATION. ROUTE UP TIGHT TO WALL INSIDE BUILDING.
- COORDINATE CROSSING OF BELOW GRADE SANITARY PIPING.
- IF ALLOWED BY AUTHORITY HAVING JURISDICTION, PROVIDE VENT FLUSH WITH WALL WITH INSECT SCREEN (MAX HEIGHT AT 48"), OTHERWISE PROVIDE GOOSENECK FITTING TURNED DOWN TOWARDS GROUND.
- ROUTE FLUE AND EXHAUST TO ROOF PER MANUFACTURER'S RECOMMENDATIONS.
- B.O. UNIT HEATER AT 12'-0" A.F.F.
- CONTRACTOR OPTION TO REUSE EXISTING INTERCEPTOR PIT PENDING EXISTING CONDITIONS ARE SUITABLE FOR REUSE AND INSTALLATION MEETS CODE.

REVISIONS/DATES	
NO.	DATE DESCRIPTION

OWNER AND CONTRACTOR REPRESENTATIVE SIGNATURES AND DATE REQUIRED FOR ALL CHANGES TO THIS DRAWING. CONTRACTOR SHALL SIGN AND DATE ALL CHANGES TO THIS DRAWING. CONTRACTOR SHALL SIGN AND DATE ALL CHANGES TO THIS DRAWING. CONTRACTOR SHALL SIGN AND DATE ALL CHANGES TO THIS DRAWING.

**WOODHOUSE BLAIR DETAIL & ACCESSORY BAY**  
 2171 S HWY 30  
 SUITE 101  
 BLAIR, NEBRASKA

CREATE + BUILD + INSURE

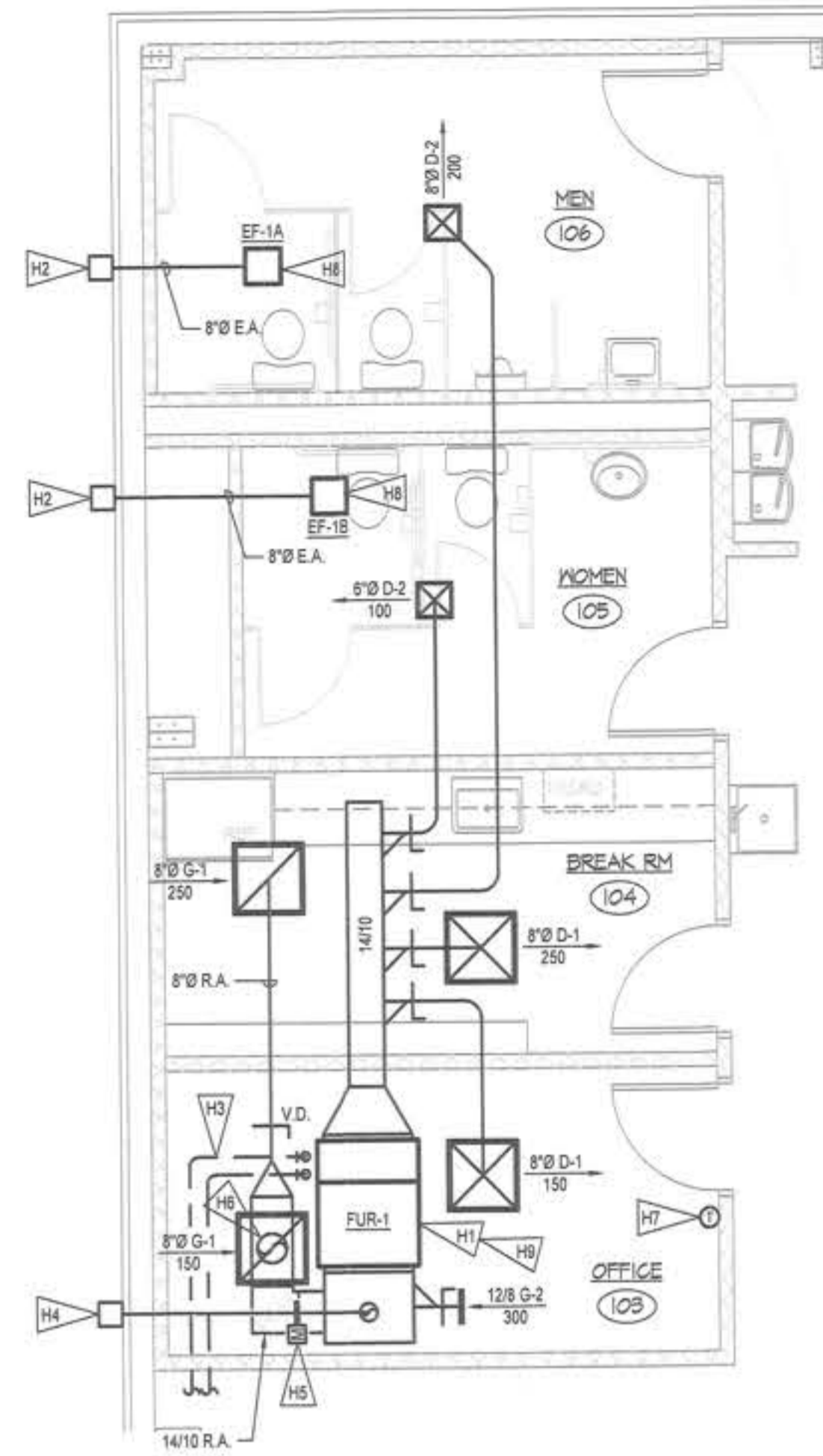
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 T. (402) 960-9825  
 F. (866) 443-7821



**M.I.1**  
 FLOOR PLAN - MECHANICAL

**KEYNOTES**

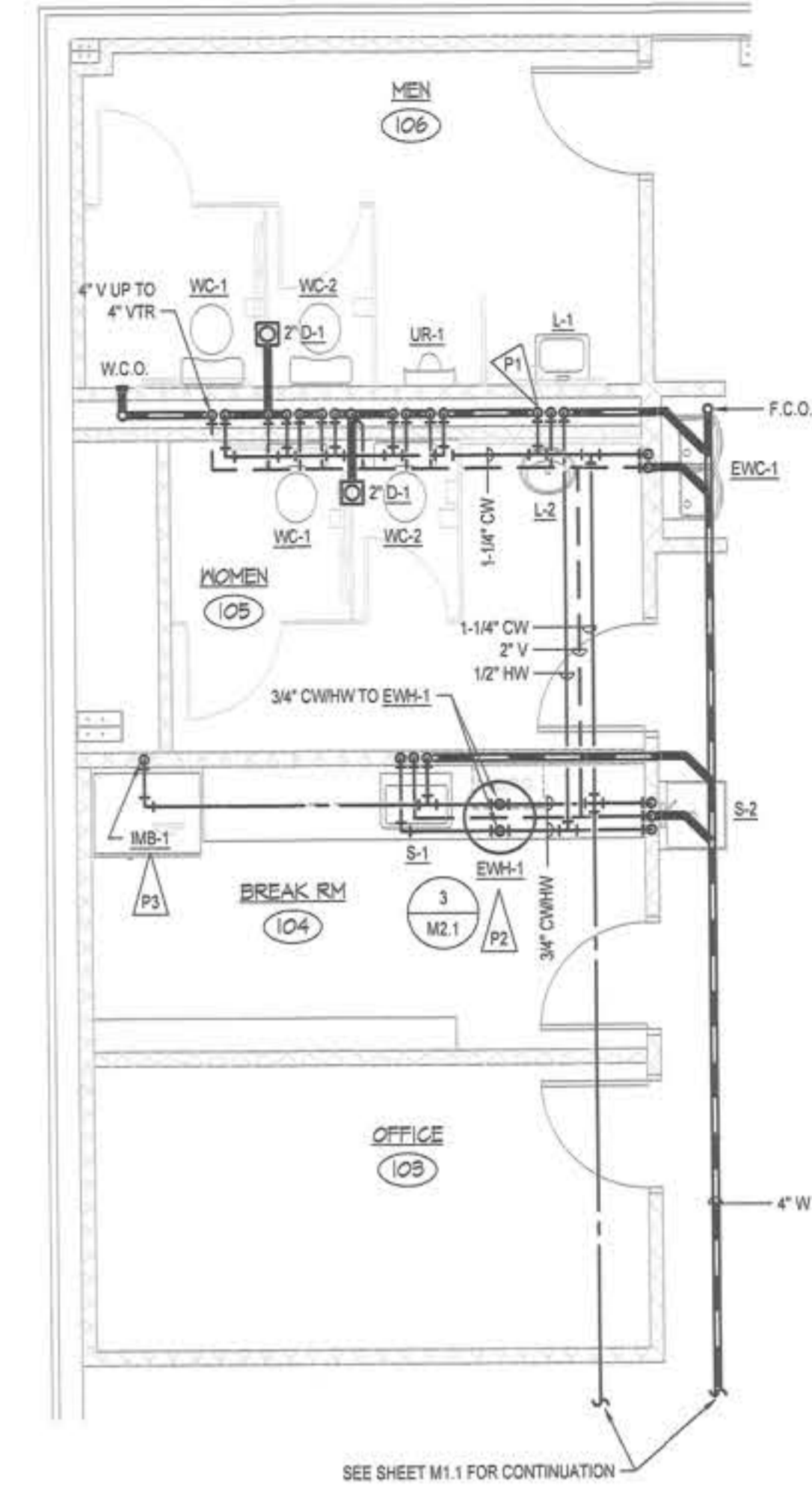
- H1 HANG FURNACE FROM STRUCTURE ABOVE OFFICE SPACE LID. ROUTE DUCTWORK ABOVE LID.
- H2 PROVIDE 8" HOODED WALL CAP (GREENHECK WC-8 OR EQUIVALENT) FOR EXHAUST AIR. INCLUDE BIRDSCREEN AND BACKDRAFT DAMPER.
- H3 ROUTE REFRIGERANT PIPING FROM INDOOR COIL ON TOP OF OFFICE LID, DOWN TO CONDENSING UNIT LOCATED ON GRADE.
- H4 PROVIDE 8" HOODED WALL CAP (GREENHECK WC-8 OR EQUIVALENT) FOR OUTSIDE AIR. INCLUDE BIRDSCREEN.
- H5 CONNECT 8" O.A. TO FURNACE RETURN DUCT. PROVIDE MOTORIZED BALANCING DAMPER AND BALANCE TO 50 CFM. INTERLOCK DAMPER WITH SUPPLY FAN. DAMPER SHALL CLOSE WHEN FAN IS NOT ACTIVATED.
- H6 8" R.A. DOWN TO RETURN GRILLE WITH VOLUME DAMPER.
- H7 PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT. ALIGN HEIGHT ON WALL WITH OTHER SWITCHES AND SENSORS. ROUGH-IN BY ELECTRICAL CONTRACTOR. COORDINATE EXACT LOCATION WITH OWNER, ARCHITECT, AND GENERAL CONTRACTOR PRIOR TO ROUGH-IN.
- H8 INTERLOCK CEILING FAN OPERATION WITH LIGHTS.
- H9 PROVIDE SECONDARY DRAIN PAN UNDER FURNACE WITH FLOAT SWITCH. ROUTE DRAIN FROM DRAIN PAN TO FLOOR SINK IN ADJACENT EQUIPMENT ROOM.



**KEYNOTES**

- P1 1/2" CW AND HW DOWN IN WALL. 1/2" CW AND HW TO EACH LAVATORY.
- P2 PROVIDE WATER HEATER IN STAND WITH DRAIN PAN ABOVE BREAK ROOM LID. ROUTE RELIEF DRAIN FROM PAN TO NEAREST FLOOR SINK.
- P3 1/2" CW TO MB-1. PROVIDE 3/8" CW FROM WALL BOX TO FRIDGE ICE BOX CONNECTION.

*Must have a conditioning Report for HVAC before Final inspection - EPOE*



ENLARGED PLAN - HVAC

1/4" = 1'-0"

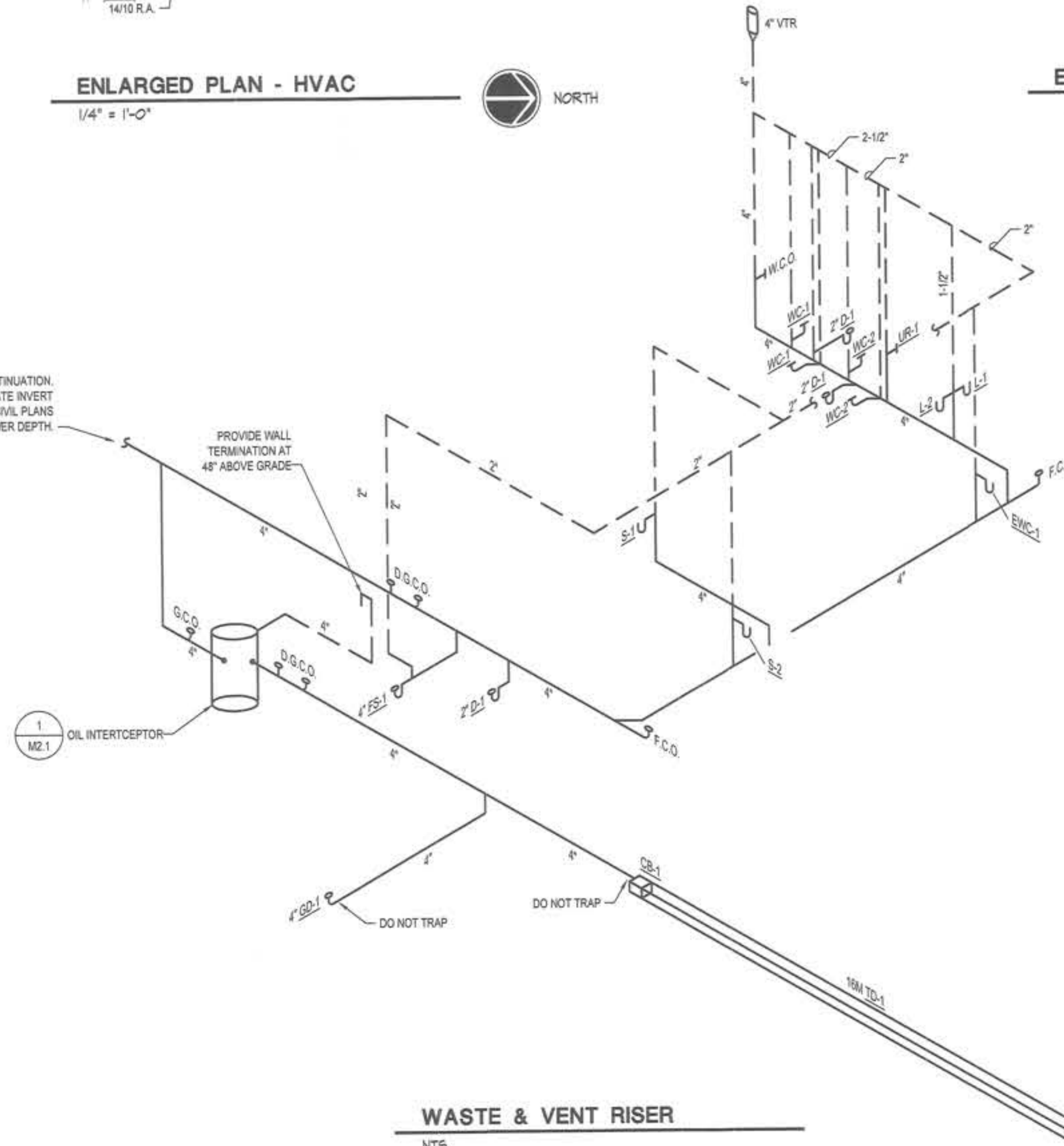


ENLARGED PLAN - PLUMBING

1/4" = 1'-0"



SEE CIVIL FOR CONTINUATION. COORDINATE INVERT ELEVATION WITH CIVIL PLANS AND EXISTING SEWER DEPTH.



REVISIONS/DATES		
NO.	DATE	DESCRIPTION

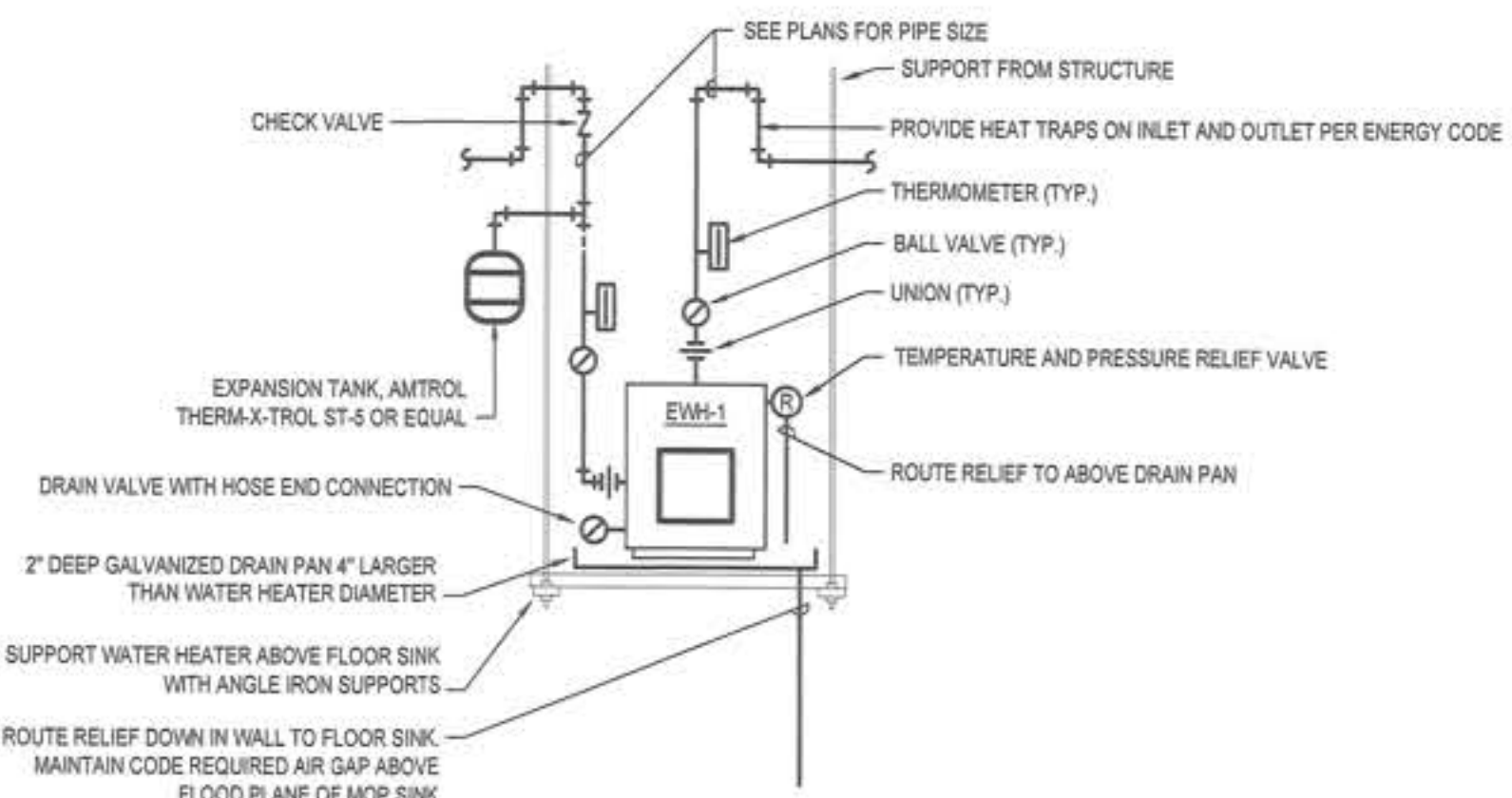
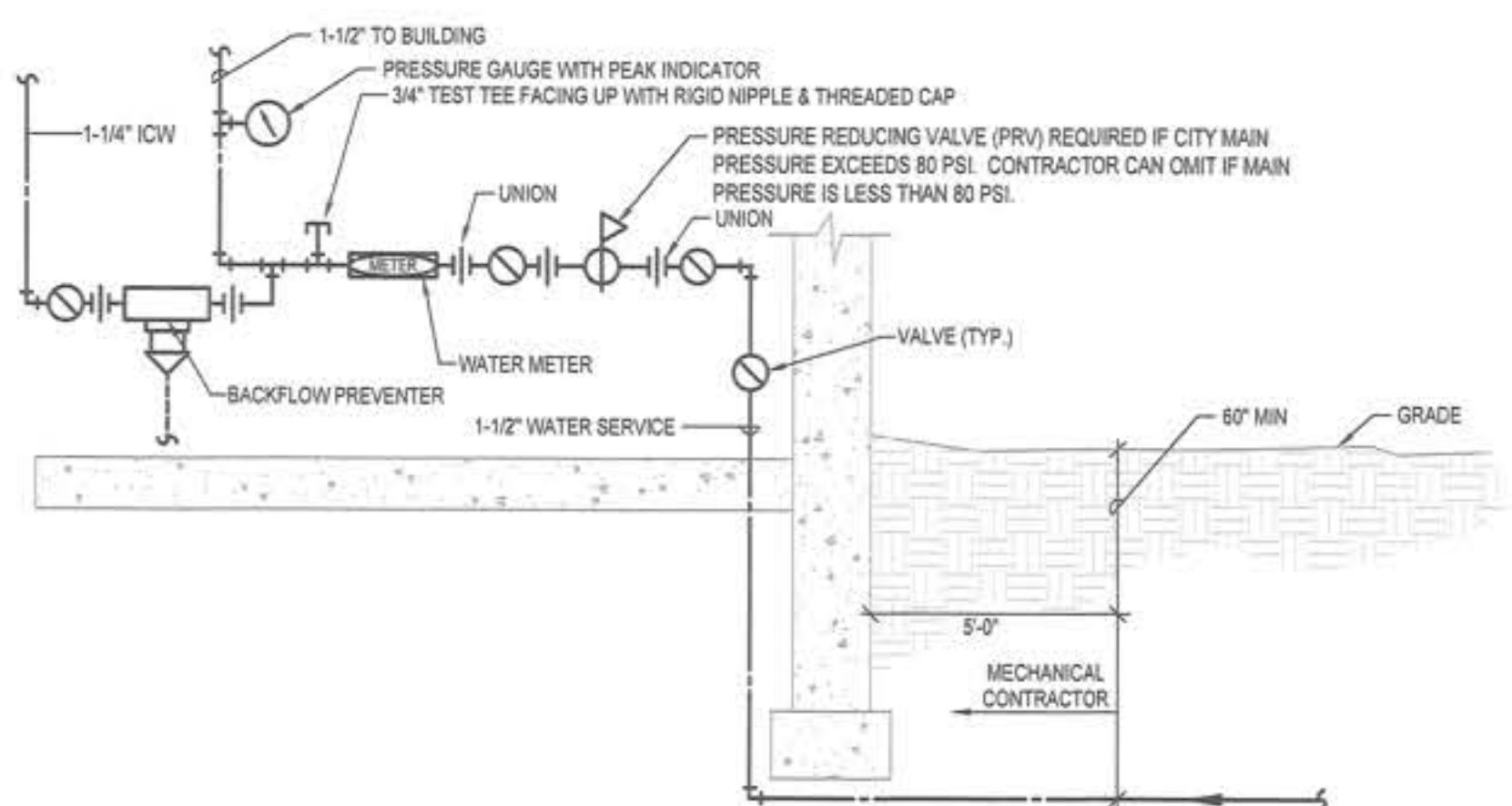
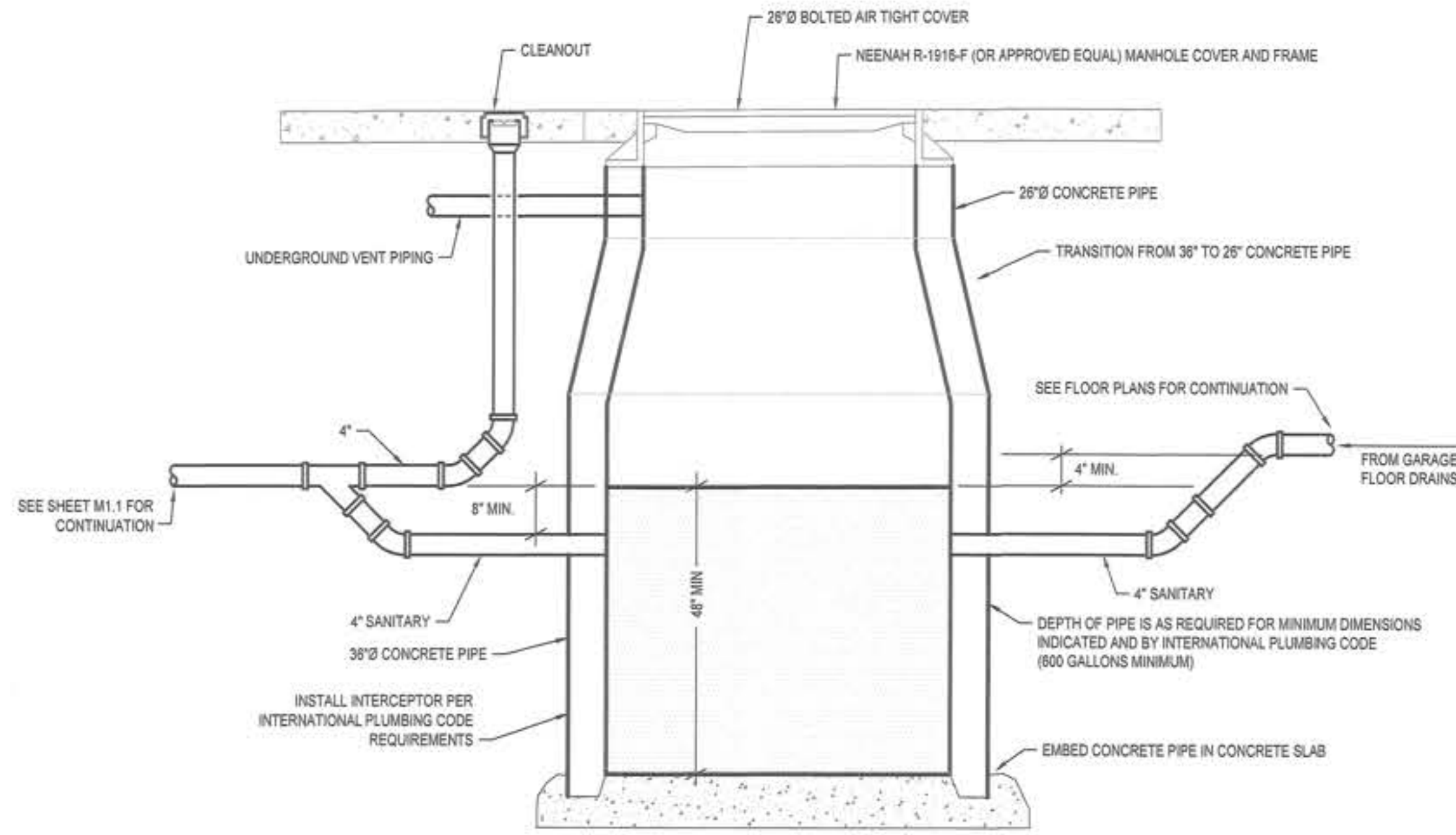
**WOODHOUSE BLAIR DETAIL & ACCESSORY BAY**  
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 SUITE 101  
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**MI.2**  
ENLARGED MECHANICAL PLANS

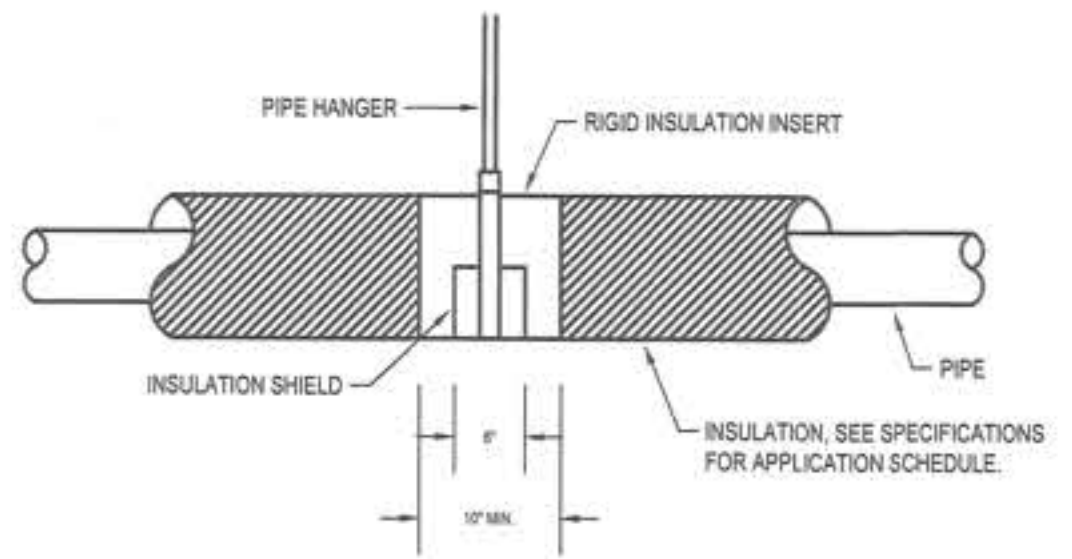
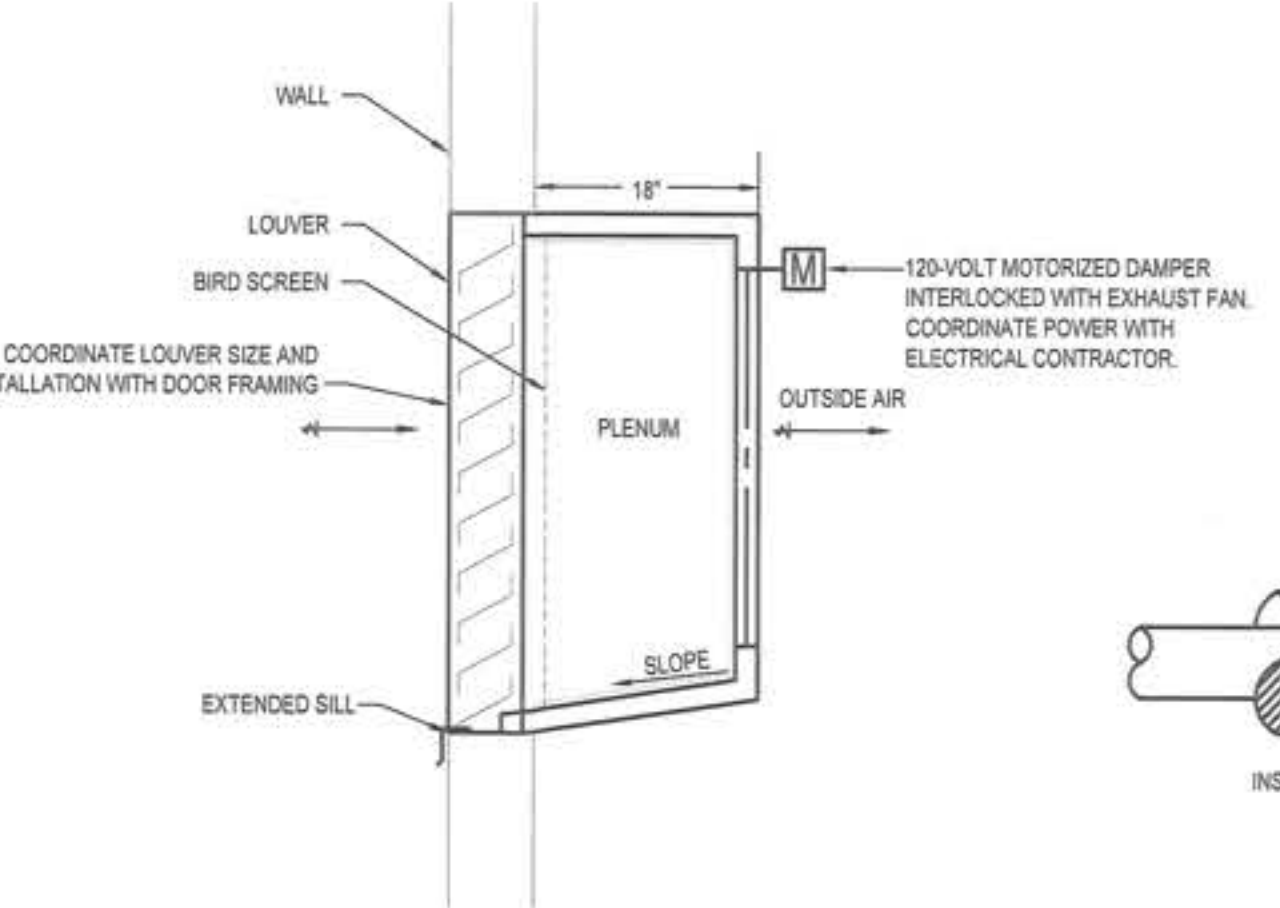
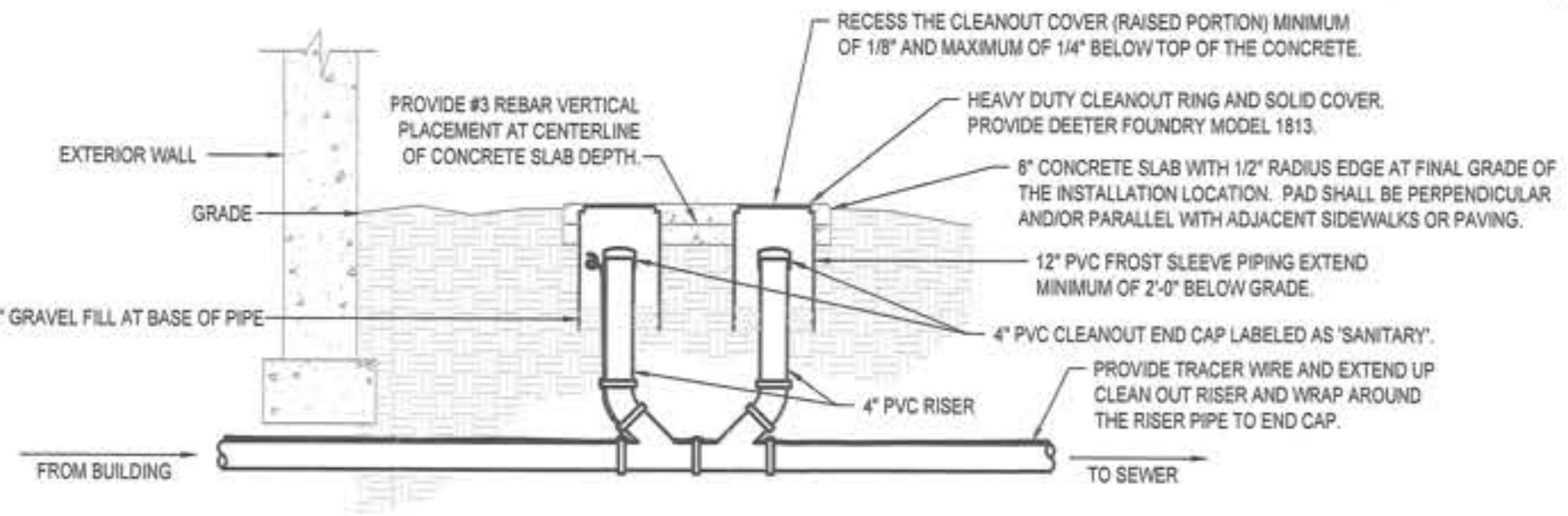
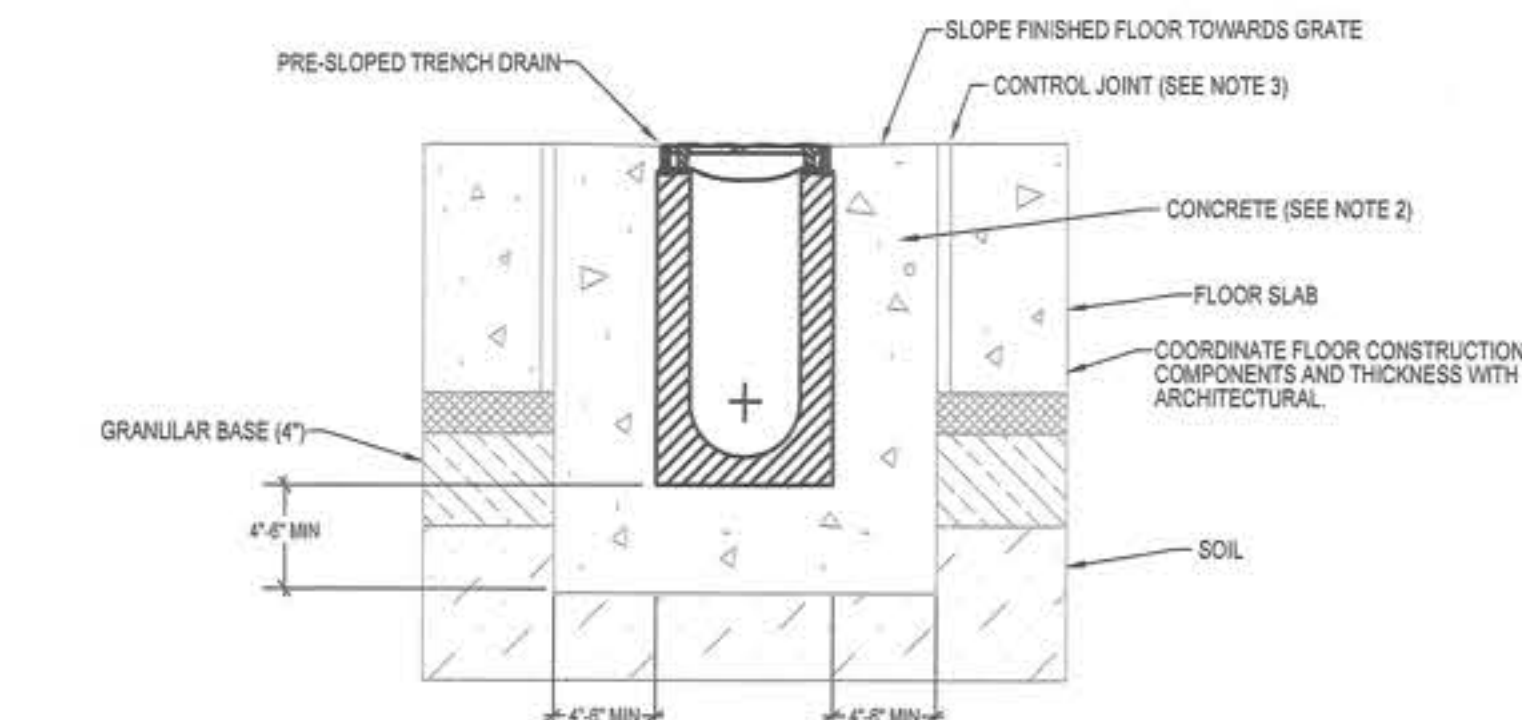


**TYPE I OIL INTERCEPTOR DETAIL**  
NO SCALE

**WATER SERVICE ENTRANCE DETAIL**  
NO SCALE

**ELECTRIC WATER HEATER DETAIL**  
NO SCALE

- NOTES:**
1. IT IS NECESSARY TO ENSURE THE MINIMUM DIMENSIONS SHOWN ARE SUITABLE FOR THE EXISTING GROUND CONDITIONS.
  2. A MINIMUM CONCRETE STRENGTH OF 3000 PSI IS RECOMMENDED. THE CONCRETE SHOULD BE VIBRATED TO ELIMINATE AIR POCKETS.
  3. CRACK CONTROL JOINTS ARE RECOMMENDED TO PROTECT THE CHANNEL AND THE CONCRETE SURROUND.
  4. THE FINISHED LEVEL OF THE CONCRETE SURROUND MUST BE APPROX. 1/8" ABOVE THE TOP OF THE CHANNEL EDGE.
  5. REFER TO J.R. SMITH'S LATEST INSTALLATION INSTRUCTIONS FOR COMPLETE DETAILS.



**TRENCH DRAIN DETAIL**  
NO SCALE

**DOUBLE GRADE CLEANOUT DETAIL**  
NO SCALE

**INTAKE DAMPER DETAIL**  
NO SCALE

**PIPE INSULATION DETAIL**  
NO SCALE

REVISIONS/DATES	
NO.	DESCRIPTION

MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL CONDITIONS AND CONDITIONS OF EXISTING WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL CONDITIONS AND CONDITIONS OF EXISTING WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL CONDITIONS AND CONDITIONS OF EXISTING WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL CONDITIONS AND CONDITIONS OF EXISTING WORK.

**WOODHOUSE BLAIR DETAIL & ACCESSORY BAY**  
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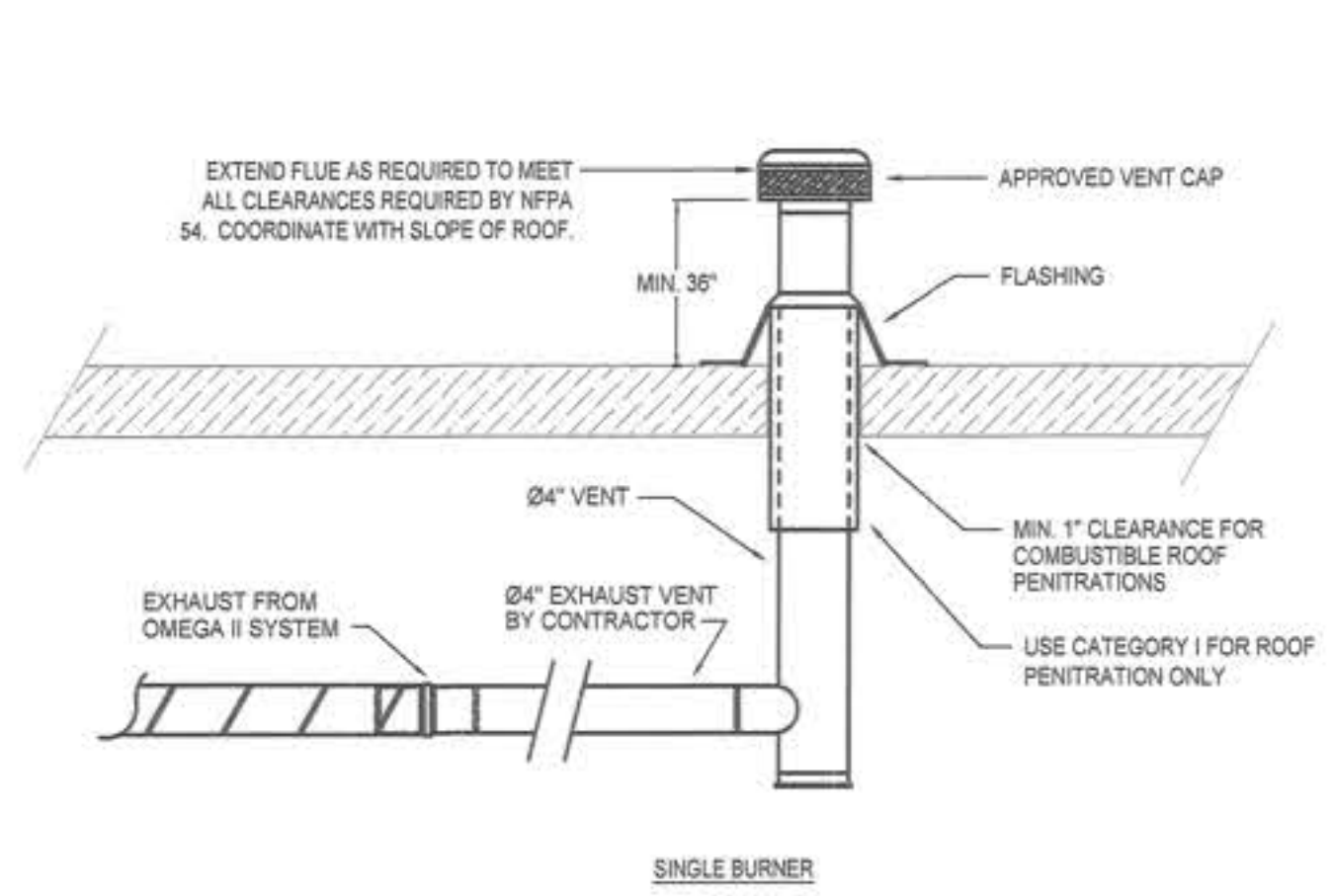
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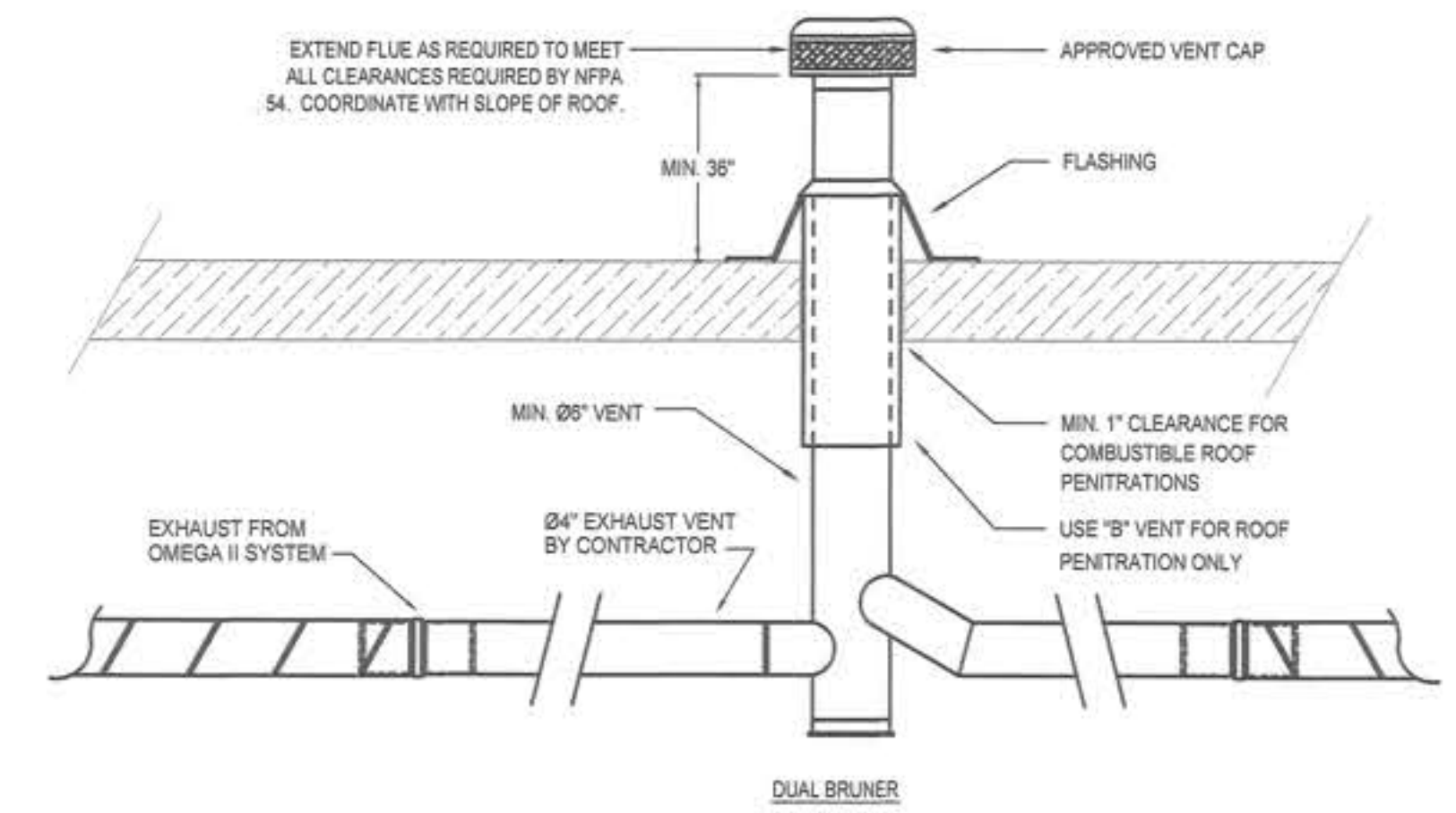
**M2.1**  
MECHANICAL DETAILS

REVISIONS/DATES	
NO.	DATE DESCRIPTION

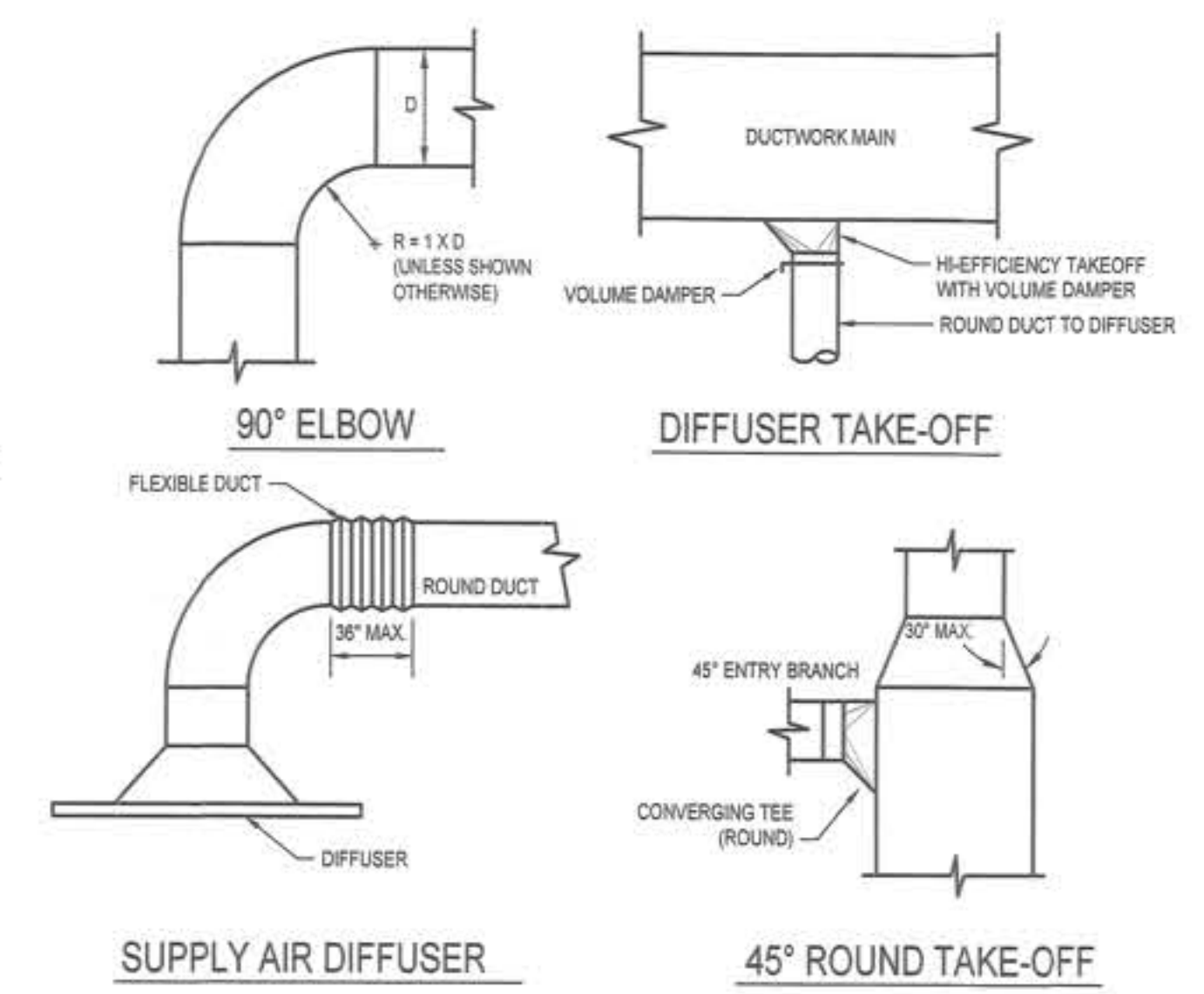
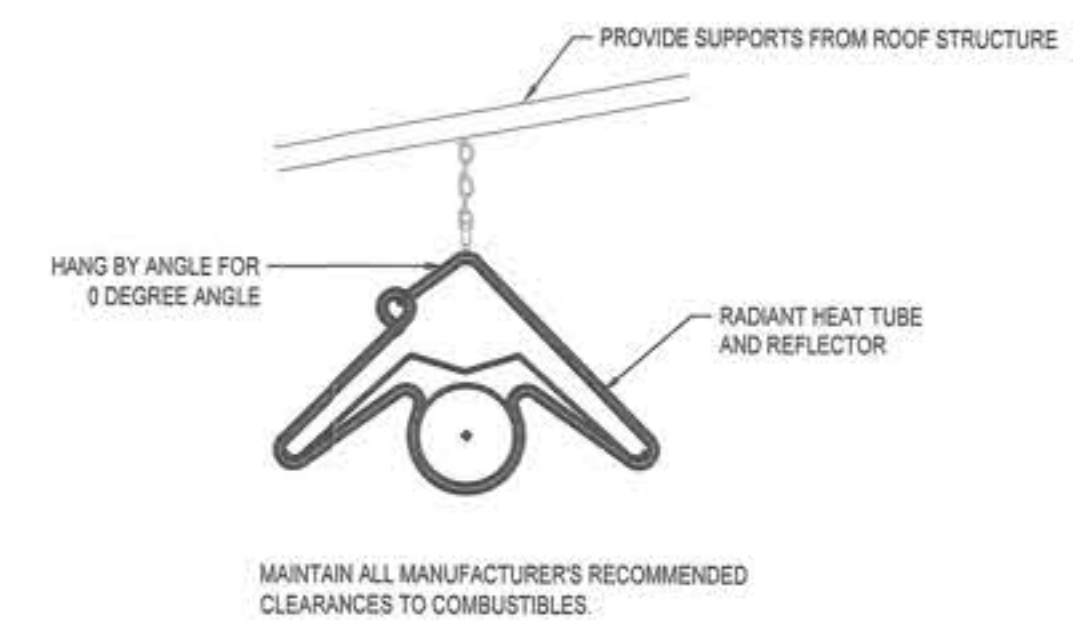
**WOODHOUSE BLAIR DETAIL & ACCESSORY BAY**  
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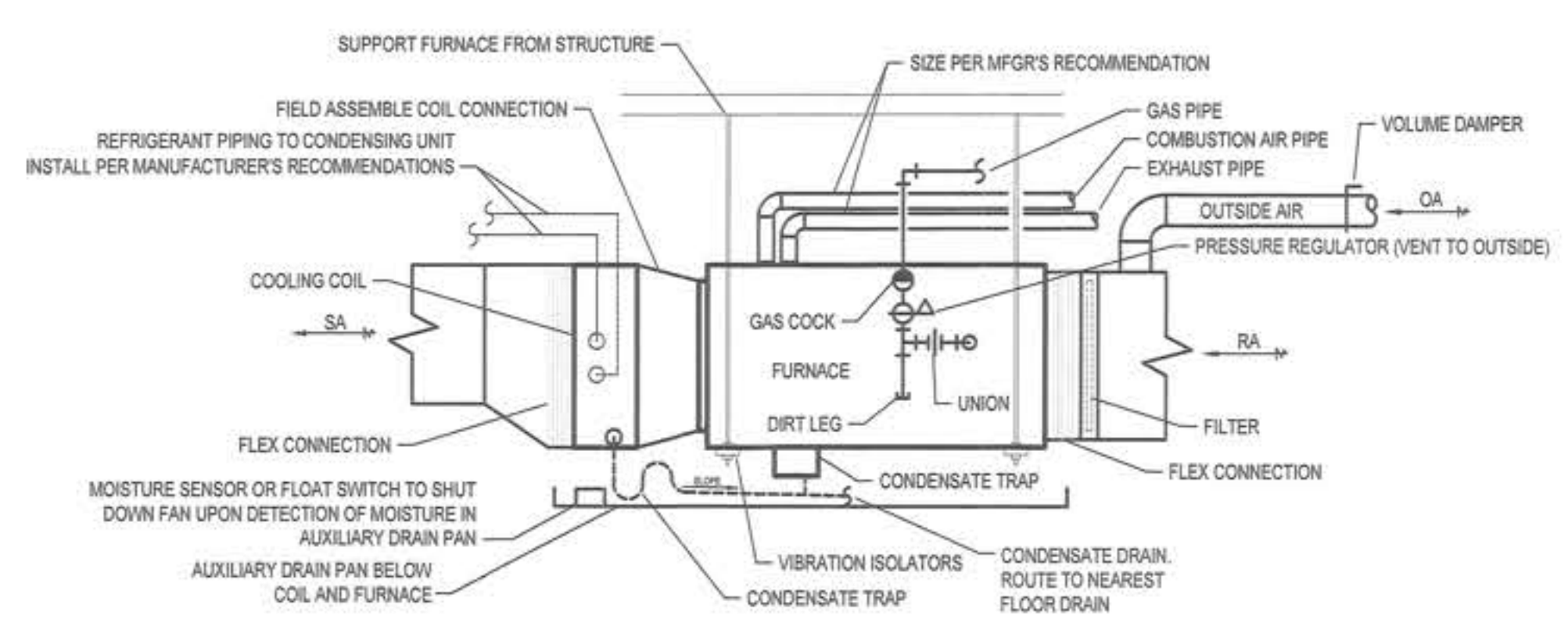
**RADIANT HEAT EXHAUST DETAIL**  
NO SCALE



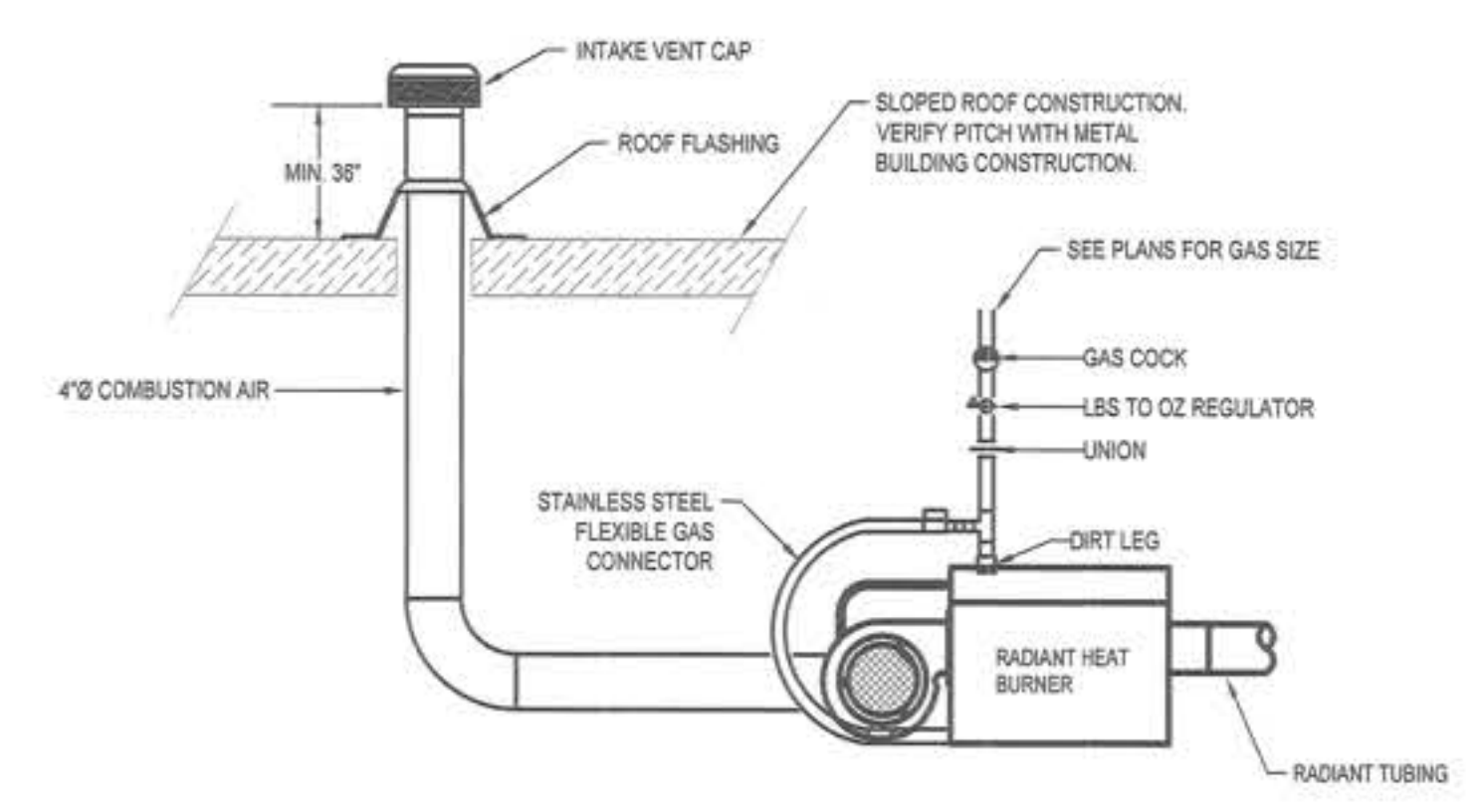
**RADIANT HEAT HANGING DETAIL**  
NO SCALE



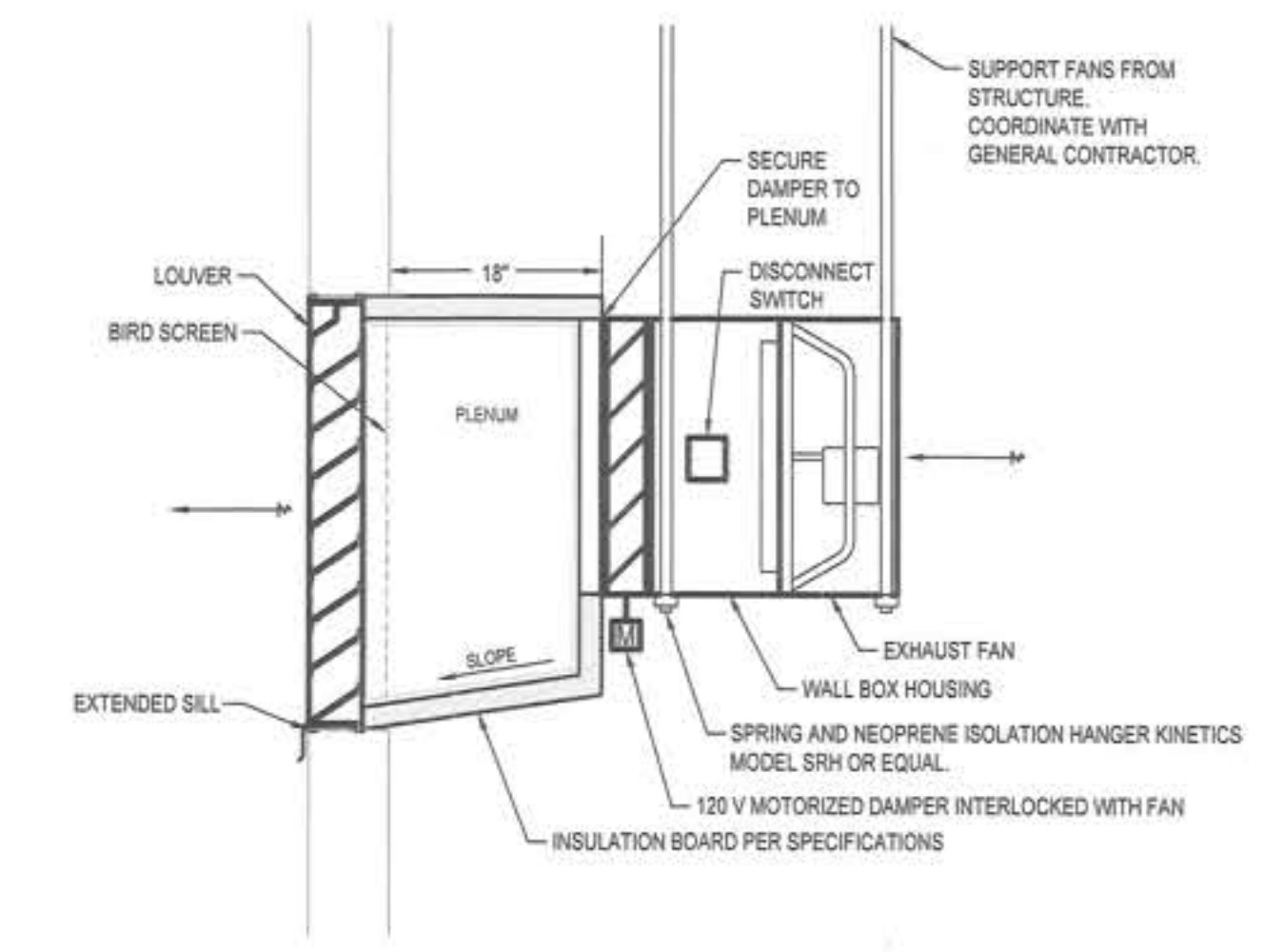
**DUCT FITTINGS AND DIFFUSER CONNECTION DETAILS**  
NO SCALE



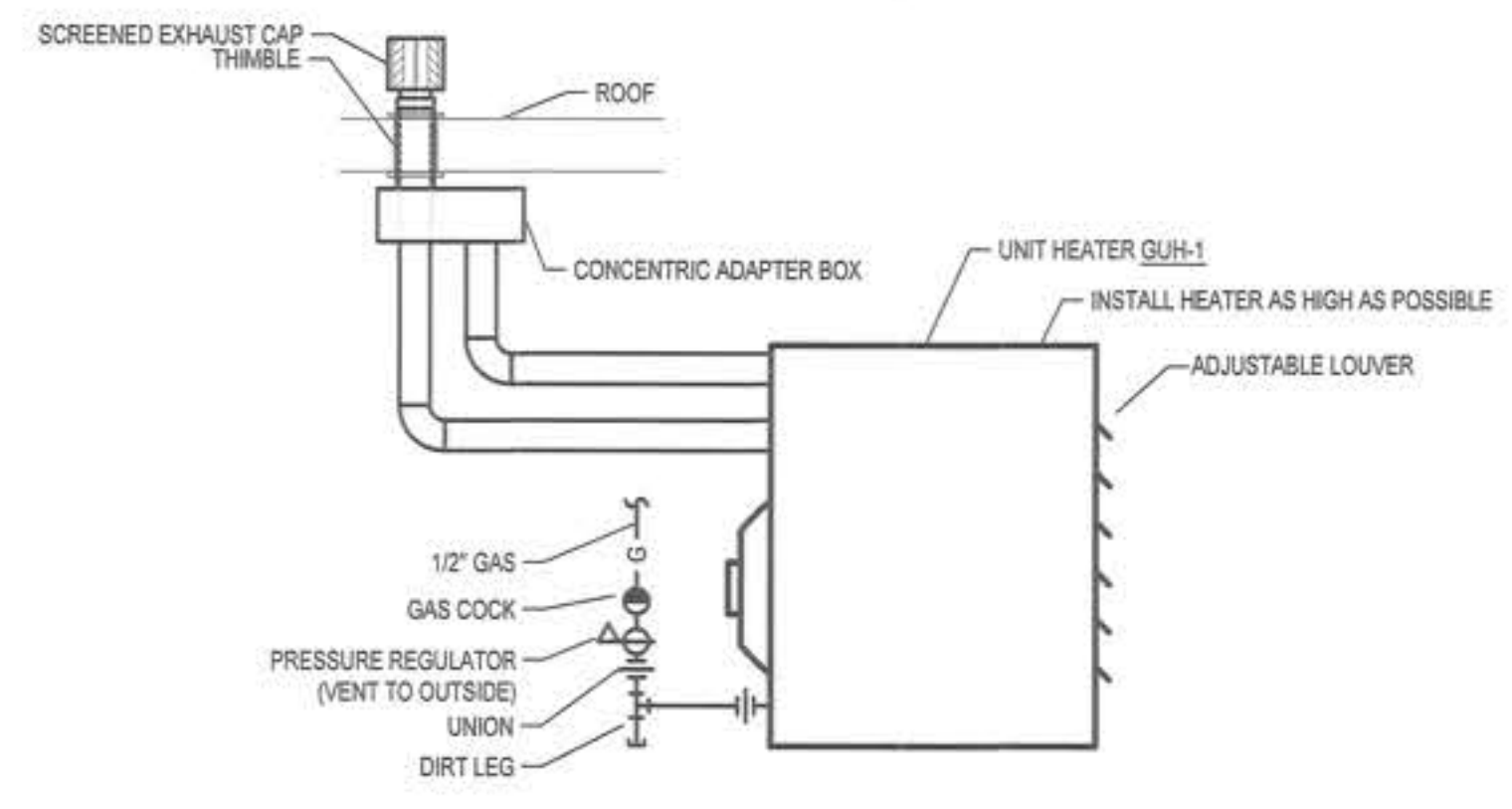
**HORIZONTAL DUCTED FURNACE DETAIL (FUR-1)**  
NO SCALE



**RADIANT HEAT BURNER DETAIL**  
NO SCALE



**WALL VENTILATION FAN DETAIL**  
NO SCALE



**GAS UNIT HEATER DETAIL**  
NO SCALE

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**M2.2**  
MECHANICAL DETAILS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
TYPICAL PIPING			
R	PIPE (TYPE PIPE)	L	LOUVER
+	ELEVATION	R	RETURN AIR
+	ISOLATION VALVE (BALL OR BUTTERFLY)	R	RETURN AIR
+	ALARMING VALVE	R	RETURN AIR
+	GATE VALVE	R	RETURN AIR
+	SLURRY VALVE	R	RETURN AIR
+	PRESSURE/TEMPERATURE TEST POINT	R	RETURN AIR
PLUMBING			
	DOMESTIC COLD WATER PIPE		DOMESTIC COLD WATER PIPE
	DOMESTIC HOT WATER (NUMBERS INDICATES TEMPERATURE)		DOMESTIC HOT WATER (NUMBERS INDICATES TEMPERATURE)
	DOMESTIC HOT WATER CIRCULATION (NUMBERS INDICATES TEMPERATURE)		DOMESTIC HOT WATER CIRCULATION (NUMBERS INDICATES TEMPERATURE)
	SANITARY WASTE (BELL/DRAIN)		SANITARY WASTE (BELL/DRAIN)
	SANITARY WASTE (SHOULDER/GRADE)		SANITARY WASTE (SHOULDER/GRADE)
	SANITARY WASTE (THROUGH ROOF)		SANITARY WASTE (THROUGH ROOF)
	VENT PIPING		VENT PIPING
	COMPRESSED AIR PIPING		COMPRESSED AIR PIPING
	NATURAL GAS PIPING		NATURAL GAS PIPING
	SITE WATER PIPING		SITE WATER PIPING
	CONDENSATE DRAIN		CONDENSATE DRAIN
	DUCTILE IRON		DUCTILE IRON
	REFRIGERANT SUCTION LINE		REFRIGERANT SUCTION LINE
	REFRIGERANT LIQUID LINE		REFRIGERANT LIQUID LINE
	REFRIGERANT HOT GAS DISCHARGE LINE		REFRIGERANT HOT GAS DISCHARGE LINE
	HYDRONIC HVAC PIPING		HYDRONIC HVAC PIPING
	REFRIGERATION PIPING		REFRIGERATION PIPING
	HVAC		HVAC
	DOORWALL SUPPLY REGISTER OR GRILLE		DOORWALL SUPPLY REGISTER OR GRILLE
	DOORWALL RETURN OR EXHAUST REGISTER OR GRILLE		DOORWALL RETURN OR EXHAUST REGISTER OR GRILLE
	SUPPLY AIR REGISTER		SUPPLY AIR REGISTER
	SUPPLY AIR, OUTSIDE AIR OR EXHAUST AIR DUCT END OR RISER UP / RISER DN		SUPPLY AIR, OUTSIDE AIR OR EXHAUST AIR DUCT END OR RISER UP / RISER DN
	RETURN AIR, EXHAUST AIR OR RELIEF AIR DUCT END OR RISER UP / RISER DN		RETURN AIR, EXHAUST AIR OR RELIEF AIR DUCT END OR RISER UP / RISER DN
	RECTANGULAR DUCTWORK (WIDTH/DEPTH/INCHES) (FIRST NUMBER IS SIDE SHOWN)		RECTANGULAR DUCTWORK (WIDTH/DEPTH/INCHES) (FIRST NUMBER IS SIDE SHOWN)
	ROUND DUCTWORK (DIAMETER/INCHES) (FIRST DUCT IN EXPOSED AREA)		ROUND DUCTWORK (DIAMETER/INCHES) (FIRST DUCT IN EXPOSED AREA)
	TURNING VANES		TURNING VANES

EQUIPMENT DESCRIPTION	MBH INPUT CAPACITY	
RH-1,2,3,4	4 @ 120	
UH-1	60	
FUR-1	44	
TOTAL SPACE LOAD (1) (2)		584 CFH

(1) COORDINATE GAS SERVICE WITH BLACK HILLS ENERGY.  
(2) GAS METER AND GAS SERVICE PIPING BY BLAIR UTILITY COMPANY. GAS PIPING DOWNSTREAM OF METER SHALL BE BY MECHANICAL CONTRACTOR. BUILDING SERVICE PRESSURE SHALL BE 2 PSI.

PLAN TAG	EVH-1
MANUFACTURER	A.O. SMITH
MODEL NUMBER	DEL-20
SERVES	DOMESTIC HW
RECOVERY (GPH @ 80°F RISE)	15
TANK	
TYPE	(1)
STORAGE CAPACITY (GAL.)	19
DIMENSIONS (HxWxD) (IN.)	22-1/4" x 21-3/4" x 0"
REMARKS	(2)
VOLTAGE / PHASE	120 / 1
CAPACITY (KW)	2.5
ELECTRIC	
NUMBER OF STAGES	1
KW PER STAGE	2.5
REMARKS	(3) (4)
REMARKS	(1) INTEGRAL GLASS LINED STORAGE TANK. (2) PROVIDE WITH PRESSURE / TEMPERATURE RELIEF VALVE. (3) SINGLE ELECTRIC ELEMENT. (4) 120°F DISCHARGE WATER TEMPERATURE.

SERVICE	PIPING SIZES	INSULATION TYPE	INSULATION THICKNESS (IN)	VAPOR RETARDER REQUIRED	REMARKS
CONDENSATE DRAIN (COPPER)	ALL	MINERAL FIBER	1/2"	YES	-
REFRIGERANT SUCTION (RS)	ALL	FLEXIBLE ELASTOMERIC	1/2"	YES	(1)
REFRIGERANT LIQUID (RL)	ALL	FLEXIBLE ELASTOMERIC	1/2"	YES	(1)
DOMESTIC COLD WATER (CW)	ALL	MINERAL FIBER	1/2"	YES	-
DOMESTIC HOT WATER (WITHOUT RECIRC.)	ALL	MINERAL FIBER	1/2"	NO	-
PLUMBING VENTS, 2 FEET BELOW ROOF	ALL	MINERAL FIBER	1/2"	YES	-
REMARKS	1. PROVIDE UV RESISTANT INSULATION ON ALL EXTERIOR PIPING. 2. AT MINIMUM, INSULATION SHALL MEET 2018 IECC. 3. SEE PIPE INSULATION DETAIL 7, SHEET M2.2. 4. SEE SPECIFICATION SECTIONS 220720 AND 230720 FOR ADDITIONAL INFORMATION.				

PLAN TAG	D-1	D-2	G-1	R-1	L-1
MANUFACTURER	KRUEGER	KRUEGER	KRUEGER	KRUEGER	RUSKIN
MODEL NUMBER	PLQ	PLQ	6690	680	ELF375DX
FUNCTION	SUPPLY	SUPPLY	RETURN	EXHAUST	EXHAUST/MAKEUP
DESCRIPTION	FLAT PLATE	FLAT PLATE	PERFORATED	3/4" BLADE	(5)
DEFLECTION	360°	360°	-	-	37.5°
MAX. STATIC PRESSURE (IN W.G.)	0.10"	0.10"	0.08"	0.08"	0.15"
CONSTRUCTION MATERIAL	STEEL	STEEL	STEEL	ALUMINUM	ALUMINUM
FINISH	WHITE	WHITE	WHITE	WHITE	(3)
NECK SIZE (IN)	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	-
FACE SIZE (IN)	24" x 24"	12" x 12"	24" x 24"	DUCT + 1.34"	SEE PLANS
ACCESSORIES	-	-	-	O.B.D.	(4)
REMARKS	(1) (2)	(1) (2)	(1) (2)	(1) (2)	-

- (1) VERIFY CEILING CONSTRUCTION PRIOR TO FURNISHING MATERIAL.  
(2) NOISE CRITERIA (NC) SHALL BE LESS THAN 25 ON DIFFUSERS, REGISTERS, AND GRILLES LOCATED IN OCCUPIED SPACES.  
(3) SEE PLANS FOR SIZE. COLOR TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD COLORS.  
(4) PROVIDE WITH BIRD SCREEN AND EXTENDED SILL. SEE DETAILS 6 ON SHEET M2.1 & M2.2.  
(5) 4" DEEP EXTRUDED ALUMINUM STATIONARY LOUVER WITH DRAINABLE BLADES AND 54% FREE AREA.

PLAN TAG	EF-1A,B	EF-2	EF-3
MANUFACTURER	GREENHECK	GREENHECK	GREENHECK
MODEL NUMBER	SP-A390	AER-24-03-0320-VG	AER-20-02-0605-VG
SERVES	RESTROOMS	SERVICE BAYS	LIFT BAY
TYPE	(1)	(4)	(4)
MAXIMUM WEIGHT (LBS)	25	100	75
ROOF/WALL OPENING SIZE	14"x12"	SEE PLANS	SEE PLANS
ACCESSORIES	(2)	(5)	(5)
FAN			
AIRFLOW (CFM)	150 (A) 225 (B)	5,000	500
EXTERNAL SP (IN. W.C.)	0.5"	0.25" / 0.38" (B)	0.25"
CLASS	-	-	-
WHEEL TYPE	BI	PROP	PROP
MINIMUM WHEEL DIA.	-	24"	20"
MAXIMUM #BA / SONES	2.5	2.1	7.5
DESIGN FAN RPM	1,350	1,750	1,000
MAXIMUM FAN BHP	.03	0.65 (B)	0.08 (B)
RPM	1,004 (A) 1,056 (B)	1,428	784
HP	-	1	1/4
VOLTS	115	115	115
PHASE	1	1	1
TYPE	DIRECT	EC	EC
CONTROL DEVICE	(3)	(7)	(7)
REMARKS	(1) CEILING MOUNTED EXHAUST FAN. (2) PROVIDE WITH SPEED CONTROLLER, BACKDRIFT DAMPER, AND DESIGNER CEILING GRILLE. (3) CONTROLLED WITH LIGHTS. COORDINATE WIRING WITH ELECTRICAL CONTRACTOR. (4) WALL MOUNTED DIRECT DRIVE EXHAUST FAN WITH EC MOTOR. (5) PROVIDE WITH 120 V MOTORIZED DAMPER, DISCONNECT SWITCH, SPEED CONTROLLER, WALL HOUSING, AND MOTOR GUARD. SEE DETAIL 8 ON SHEET M2.2. (6) BRAKE HORSEPOWER SHALL NOT EXCEED 65% OF NOMINAL MOTOR HORSEPOWER. (7) CONTROLLED BY CO / NO2 GAS DETECTION SYSTEM. OCCUPANTS SHALL HAVE THE ABILITY TO MANUALLY OPERATE THE FAN FOR VENTILATION PURPOSES THROUGH HAND OFF AUTO CONTROLLER FROM MANUFACTURER. (8) FIRST NUMBER INDICATES EXTERNAL STATIC PRESSURE FOR FAN. SECOND NUMBER INCLUDES STATIC PRESSURE LOSS FROM BACKDRIFT DAMPER AND WALL HOUSING.		

PLAN TAG	RH-1,2,3,4
MANUFACTURER	REZNOR
MODEL NUMBER	VCT-125
SERVES	DETAIL BAY
CONFIGURATION	STRAIGHT
TUBING CONSTRUCTION	STAINLESS STEEL
VENTING TYPE	POSITIVE
REMARKS	(1) (2) (3) (4) (5) (7)
GAS FIRED	
FUEL	NAT. GAS
INPUT (MBH)	125
OUTPUT (MBH)	102.5
EFFICIENCY	82
VENT CONNECTION (IN)	4
REMARKS	-
ELECTRIC	
VOLTS	120
PHASE	1
CONTROL DEVICE	(6)
MOTOR HP	1/25
REMARKS	(1) PROVIDE WITH REFLECTOR. BRIGHT FINISHED ALUMINUM 87% MINIMUM REFLECTIVITY, WITH END CAPS. (2) RADIANT TUBING TO BE CONSTRUCTED ENTIRELY OF STAINLESS STEEL. (3) BURNER. 120 VOLT POWER GAS BURNER WITH ELECTRONIC SPARK. (4) PROVIDE WITH STAINLESS STEEL GAS FLEX CONNECTION AND GAS COCK. (5) PROVIDE WITH 3 YEAR WARRANTY ON COMPONENTS. 10 YEAR WARRANTY ON TUBING. (6) PROVIDE LINE VOLTAGE THERMOSTAT. ONE THERMOSTAT SHALL CONTROL 2 BURNERS. (7) PROVIDE WITH OUTSIDE COMBUSTION AIR.

PLAN TAG	ACCU-1
MANUFACTURER	LENNOX (1)
MODEL NUMBER	ML14XC1-024-230
SERVES	FUR-1
CONFIGURATION	(2)
MAXIMUM SIZE (LxWxH) (IN)	28" x 28" x 28"
MAXIMUM WEIGHT (LBS.)	175
REMARKS	(4) (5)
ELECTRICAL	
VOLTS	208
PHASE	1
MAXIMUM UNIT KW	-
MAXIMUM FUSE SIZE (AMPS)	14.8
MINIMUM CIRCUIT AMPACITY (MCA)	25
REMARKS	(3)
COOLING	
AMBIENT AIR TEMPERATURE (F)	105°F
MINIMUM NET SEER (ARI)	14
NOMINAL CAPACITY (TONS)	2
TOTAL COOLING (MBH)	48
SENSIBLE COOLING (MBH)	-
TYPE	R410A
REFRIGERANT	
MIN. NUMBER OF CIRCUITS	1
REMARKS	-
COMPRESSORS	
TYPE	SCROLL
QUANTITY/SIZE	1
HP	1/6
REMARKS	-
CONDENSER FANS	
TYPE	PROP
QUANTITY/SIZE	1
HP	-
REMARKS	-
REMARKS	(1) SUBJECT TO COMPLIANCE WITH THE REQUIREMENTS. PROVIDE PRODUCT BY ONE OF THE FOLLOWING MANUFACTURERS: LENNOX, TRANE, CARRIER, AND YORK. (2) SINGLE STAGE DX CONDENSING UNIT. (3) DISCONNECT BY ELECTRICAL CONTRACTOR. SEE ELECTRICAL PLANS. (4) PROVIDE LOW AMBIENT COOLING KIT TO PROVIDE COOLING DOWN TO 30°F AMBIENT. (5) PROVIDE WITH 5 YEAR CONDENSER WARRANTY.

PLAN TAG	FUR-1
MANUFACTURER	LENNOX (6)
MODEL NUMBER	ML190DF04SX368
SERVES	SEE PLANS
CONFIGURATION	(7)
MAXIMUM SIZE (LxWxH) (IN)	28" x 21" x 33"
MAXIMUM WEIGHT (LBS.)	175
REMARKS	(8)
AIRFLOW	
TOTAL AIRFLOW (CFM)	700
MINIMUM OUTSIDE AIRFLOW (CFM)	SEE PLANS
EXTERNAL SP (IN. WC)	0.5"
RPM	1,725
HP	1
VOLTS	120
PHASE	1
TYPE	(9)
CONTROL DEVICE	(1)
REMARKS	-
GAS FIRED	
FUEL	NAT. GAS
INPUT	44.0
OUTPUT	42.0
EFFICIENCY	96%
VENT CONNECTION (IN)	2"
REMARKS	(2) (10)
COOLING COIL (3)	
TOTAL CAPACITY (MBH)	24
SENSIBLE CAPACITY (MBH)	-
REFRIGERANT	R410A
REMARKS	-
FILTERS	(4)
HUMIDIFIER	-
THERMOSTAT	(5)
REMARKS	-

1. INTEGRATED SOLID STATE CONTROLS WITH BLOWER AND LIMIT CONTROLS.  
2. PVC EXHAUST AND INTAKE PIPING PER MANUFACTURER'S RECOMMENDATIONS, CONCENTRIC ROOF VENT.  
3. CASED DX COOLING COIL TO MATCH FURNACE AND CONDENSING UNIT  
4. 1" PLEATED DISPOSABLE  
5. PROGRAMMABLE THERMOSTAT WITH 7-DAY SETBACK, HEAT/COOL/AUTO, FAN ON/OFF/AUTO.  
6. SUBJECT TO COMPLIANCE WITH THE REQUIREMENTS, PROVIDE PRODUCT BY ONE OF THE FOLLOWING MANUFACTURERS: LENNOX, TRANE, CARRIER, AND YORK.  
7. HORIZONTAL GAS FURNACE WITH DX COOLING COIL  
8. PROVIDE WITH THE FOLLOWING FIELD INSTALLED ACCESSORIES:  
8.a. FREEZE STAT  
8.b. LOW AMBIENT CONTROL (DOWN TO 30°F)  
8.c. COMPRESSOR CRANKCASE HEATER  
8.d. 2" CONCENTRIC VENT KIT  
8.e. LOSS OF CHARGE SWITCH KIT  
9. CONSTANT TORQUE BLOWER MOTOR.  
10. PROVIDE ALUMINUM HEAT EXCHANGER WITH 20 YEAR HEAT EXCHANGER WARRANTY.

PLAN TAG	UH-1
MANUFACTURER	REZNOR
MODEL NUMBER	UDXC-60
SERVES	LIFT BAY
CONFIGURATION	-
MAXIMUM SIZE (LxWxH) (IN)	27"x33"
MAXIMUM WEIGHT (LBS.)	75
MINIMUM OUTSIDE AIRFLOW (CFM)	-
REMARKS	(2)
FAN	
AIRFLOW (CFM)	770
EXTERNAL STATIC PRESSURE (IN. W.C.)	-
MAXIMUM FAN BHP	.03
RPM	1,050
HP	.06
VOLTS	115
PHASE	1
TYPE	-
CONTROL DEVICE	(2)
REMARKS	-
GAS FIRED	
FUEL	NATURAL GAS
INPUT	60
OUTPUT	49.8
EFFICIENCY	83%
VENT CONNECTION	4
REMARKS	(3)

1. PROVIDE MANUFACTURER'S STANDARD THERMOSTAT.  
2. GAS-FIRED, SEPARATED COMBUSTION, FAN TYPE UNIT HEATER.  
3. HEATER VENT AND COMBUSTION AIR CONCENTRIC ROOF WALL TERMINATION. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. EXHAUST AND COMBUSTION AIR CONNECTIONS FROM HEATER.














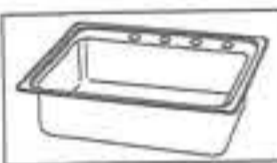






NO.	DATE	DESCRIPTION

WOODHOUSE BLAIR DETAIL & ACCESSORY BAY  
2711 S HWY 30  
SUITE 101  
BLAIR, NEBRASKA

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MECHANICAL SCHEDULES  
RYAN D. GOUGHNOUR  
E-15541  
APRIL 5, 2024  
STATE OF NEBRASKA

M2.3  
MECHANICAL SCHEDULES

PLUMBING FIXTURE SCHEDULE (1)															
TAG	FIXTURE (2)	FAUCET/FLUSHVALVE/ACCESSORY (2)	DESCRIPTION	CONNECTIONS				TAG	FIXTURE (2)	DESCRIPTION	CONNECTIONS				
				CW	HW	WASTE	VENT				CW	HW	WASTE	VENT	
WC-1	 MODEL: AMERICAN STANDARD 2487.016		DESCRIPTION: VITREOUS CHINA, ELONGATED, SIPHON JET BOWL, FLOOR MOUNTED, FLOOR OUTLET, PRESSURE ASSIST TANK TYPE WATER CLOSET. ADA COMPLIANT: YES COLOR: WHITE TANK: PRESSURE ASSIST FLUSHMATE, CLOSED COUPLED, 1.6 GALLONS PER FLUSH. SEAT: WHITE, ELONGATED, OPEN FRONT WITH COVER, SEAT WITH CHECK HINGE. RIM HEIGHT: 17.5'-18"	1/2"	-	4"	2"	HB-1	 MODEL: WOODFORD MODEL #28	DESCRIPTION: HOSE BIBB WITH BRONZE BODY, RENEWABLE COMPOSITION DISC, 3/4" NPS THREADED OR SOLDER JOINT INLET. PROVIDE GARDEN HOSE THREADS ON OUTLET AND INTEGRAL, NON REMOVABLE, DRAINABLE, HOSE CONNECTION WITH ANTI-SIPHON VACUUM BREAKER. REMARKS: 1. FINISH: CHROME 2. OPERATION: WHEEL HANDLE	3/4"	-	-	-	
WC-2	 MODEL: AMERICAN STANDARD 2482.016		DESCRIPTION: VITREOUS CHINA, ELONGATED, SIPHON JET BOWL, FLOOR MOUNTED, FLOOR OUTLET, PRESSURE ASSIST TANK TYPE WATER CLOSET. ADA COMPLIANT: NO COLOR: WHITE TANK: PRESSURE ASSIST FLUSHMATE, CLOSED COUPLED, 1.6 GALLONS PER FLUSH. SEAT: WHITE, ELONGATED, OPEN FRONT WITH COVER, SEAT WITH CHECK HINGE. RIM HEIGHT: 15"	1/2"	-	4"	2"	WM-1	 MODEL: WOODFORD MODEL #67	DESCRIPTION: WALL HYDRANT WITH THE FOLLOWING FEATURES: NONFREEZE, AUTOMATIC DRAINING, ANTI-BACKFLOW TYPE, KEY OPERATION, 3/4" NPS THREADED OR SOLDER JOINT INLET, AND GARDEN HOSE THREADS ON OUTLET. INCLUDE OPERATING KEY FOR EACH HYDRANT. REMARKS: 1. TYPE: SURFACE MOUNT 2. OPERATION: CHROME PLATED	3/4"	-	-	-	
UR-1	 MODEL: AMERICAN STANDARD 6590.001	 MODEL: SLOAN REGAL 186-0.5-XL	DESCRIPTION: WASHDOWN, WALL HANGING, WALL OUTLET URINAL WITH FLUSHOMETER. ADA COMPLIANT: YES COLOR: WHITE FLUSHOMETER: TOP SPUD, 0.5 GALLONS PER FLUSH. FLUSHOMETER FINISH: POLISHED CHROME. FLUSHOMETER OPERATION: MANUAL. RIM HEIGHT: 17"	3/4"	-	2"	1-1/2"	GD-1	 MODEL: J.R. SMITH #2142	DESCRIPTION: HEAVY DUTY DRAIN WITH CAST IRON BODY, SEDIMENT BUCKET, FLASHING COLLAR, 12" ROUND REMOVABLE HEAVY DUTY CAST IRON GRATE, OMT TRAP ON DRAIN. REMARKS: SEE FLOOR PLANS FOR WASTE AND VENT SIZE REQUIREMENTS.	3/4"	-	4"	-	
L-1	 MODEL: AMERICAN STANDARD 0356.421	 MODEL: KOHLER K-15182 "CORALAIS" SEE DESCRIPTION FOR OPTIONS	DESCRIPTION: WALL HANGING LAVATORY WITH MANUAL FAUCET. ADA COMPLIANT: YES COLOR: WHITE FIXTURE DIMENSIONS: 21" X 18" CONSTRUCTION: FAUCET INLET SPACING TO MATCH LAVATORY OPENINGS. FAUCET VALVE OPERATION: MANUAL. HANDLE: SINGLE-LEVER TOGGLE SPOUT: INTEGRAL WITH BODY, VANDAL RESISTANT AERATOR, 1/2-GPM FLOW. DRAIN: GRID STRAINER. ADA INSULATION KIT: PROVIDE SUPPLY AND DRAIN SOFT MOLDED INSULATION KITS FROM FIXTURE TO WALL. COVERINGS TO BE CUSHIONED JACKET PLASTIC COVERING WITH SELF STICKING FASTENING SYSTEM.	1/2"	1/2"	1-1/4"	1-1/4"	D-1	 MODEL: J.R. SMITH #2005	DESCRIPTION: FLOOR DRAIN WITH CAST IRON BODY, FLASHING COLLAR, 6" ROUND ADJUSTABLE NICKEL BRONZE GRATE. REMARKS: SEE FLOOR PLANS FOR WASTE AND VENT SIZE REQUIREMENTS.	1/2"	-	2"	1-1/2"	
L-2	 MODEL: KOHLER K-2198 "PENNINGTON"	 MODEL: KOHLER K-15182 "CORALAIS" SEE DESCRIPTION FOR OPTIONS	DESCRIPTION: COUNTERTOP LAVATORY WITH MANUAL FAUCET. ADA COMPLIANT: YES COLOR: WHITE FIXTURE DIMENSIONS: 20-1/4" X 17-1/2" OVAL CONSTRUCTION: FAUCET INLET SPACING TO MATCH LAVATORY OPENINGS. FAUCET VALVE OPERATION: MANUAL. HANDLE: SINGLE-LEVER TOGGLE SPOUT: INTEGRAL WITH BODY, VANDAL RESISTANT AERATOR, 1/2-GPM FLOW. DRAIN: GRID STRAINER. ADA INSULATION KIT: PROVIDE SUPPLY AND DRAIN SOFT MOLDED INSULATION KITS FROM FIXTURE TO WALL. COVERINGS TO BE CUSHIONED JACKET PLASTIC COVERING WITH SELF STICKING FASTENING SYSTEM.	1/2"	1/2"	1-1/4"	1-1/4"	TD-1	 MODEL: J.R. SMITH #9895	DESCRIPTION: NON-METALLIC TRENCH DRAIN, POLYESTER RESIN AND QUARTZ AGGREGATE, PRECAST, INTERLOCKING DESIGN, INTEGRAL METAL RAIL, WITH BOTTOM RADIUS AND 0.8 PERCENT SLOPE, CHANNEL SLOPE DRAIN SYSTEM OR EQUAL. REMARKS: 1. PRECAST MATERIAL: LOAD PRESSURE OF 14,500 PSI, BENDING PRESSURE OF 2,900 PSI, FROST-PROOF, SALT-PROOF, INERT UNDER DILUTE ACID AND ALKALI CONDITIONS, AND LESS THAN 1.9 PERCENT WATER ABSORPTION RATE. 2. CHANNEL SECTIONS: INTERLOCKING-JOINT, PRECAST, MODULAR UNITS WITH END CAPS. PROVIDE OUTLETS IN NUMBER, SIZES, AND LOCATIONS INDICATED. INCLUDE EXTENSION SECTIONS NECESSARY FOR REQUIRED DEPTH. 3. GRATES: SLOTTED GALVANIZED STEEL, CLASS C, FOR HEAVY-DUTY TRUCK TRAFFIC, WITH OPENINGS DESIGNED TO PREVENT ENTRY OF BICYCLE OR WHEELCHAIR TIRES IN SERVICE DEPARTMENT. 4. LOCKING MECHANISM: MANUFACTURER'S STANDARD DEVICE FOR SECURING GRATES TO CHANNEL SECTIONS. 5. CATCH BASINS, CB-1, 21-BY-14-INCH POLYMER-CONCRETE BODY WITH SLOTTED GRATE. PROVIDE WHERE INDICATED ON PLANS.	1/2"	-	2"	1-1/2"	
S-1	 MODEL: ELKAY LR-2219	 MODEL: KOHLER K-15171 "CORALAIS"	DESCRIPTION: COUNTER MOUNTED 18 GA STAINLESS STEEL SINK WITH SWING SPOUT. ADA COMPLIANT: YES FIXTURE DIMENSIONS: SINGLE BOWL, 22" X 19" X 8-1/2" CONSTRUCTION: FAUCET INLET SPACING TO MATCH SINK OPENINGS. HANDLE: SINGLE LEVER TOGGLE ADA COMPLIANT. SPOUT: SWING WITH 1-1/2 GPM FLOW AERATOR. DRAIN: 1-1/2" GRID STRAINER WITH 3-1/2" REMOVABLE STAINLESS STEEL CRUMB CUP. FOOD WASTE DISPOSER: IN-SINK ERATOR, BADGER 5XP, 115VAC, 3/4 (1/2) HP DISPOSER. INCLUDE MOTOR WITH OVERLOAD PROTECTION AND RESET BUTTON, WALL SWITCH, CORROSION RESISTANT CHAMBER WITH JAM RESISTANT STAINLESS STEEL GRINDER, SPLASH GUARD, AND COMBINATION COVER/STOPPER.	1/2"	1/2"	1-1/2"	1-1/2"								
S-2	 MODEL: FIAT FL-1 "SERV-A-SINK"	 MODEL: FIAT A1000 DECK FAUCET	DESCRIPTION: FLOOR MOUNTED UTILITY SINK WITH FAUCET. ADA COMPLIANT: NOT REQUIRED FIXTURE DIMENSIONS: SINGLE TUB 23" x 21" FIXTURE CONSTRUCTION: MOLDED STONE. FAUCET CONSTRUCTION: CAST BRASS. FAUCET MOUNTING: CENTERED ON FIXTURE DECK. FAUCET COMPONENTS: SWING SPOUT, DUAL LEVER HANDLES. DRAIN: MANUFACTURER'S GRID DRAIN. FIXTURE SUPPORT: HEAVY DUTY LEGS WITH LEVELING FEET.	1/2"	1/2"	1-1/2"	1-1/2"	MB-1	 MODEL: GUY GRAY BIMETS OR EQUAL METAL ICE MAKER BOX	DESCRIPTION: METAL ICE MAKER BOX. CONSTRUCTION: RECESSED BOX AND FACEPLATE, 1/2" OUTLET COMPRESSION ANGLE SHUT-OFF VALVE. REMARKS: PROVIDE FIRE RATED OUTLET BOX WHEN INSTALLED IN FIRE RATED WALL.	1/4"	-	-	-	
EW-1	 MODEL: HALSEY-TAYLOR HTHB-HAC88LRSS-NF		DESCRIPTION: BARRIER FREE WALL MOUNTED BI-LEVEL WATER COOLER WITH BOTTLE FILLER, FIXTURE IS REVERSE CONFIGURATION THAT HAS COMPRESSOR ABOVE 18" TO MEET CLASS 1 DIV II ELECTRICAL CODE REQUIREMENTS IN SERVICE DEPARTMENT. ADA COMPLIANT: YES NUMBER OF BUBBLERS: TWO BUBBLERS WITH TWO-STREAM MOUND BUILDING BUBBLER WITH ANTI-SOULT FEATURE. BOTTLE FILLER: SENSOR ACTIVATED FILL STATION WITH 20 SECOND SHUT OFF. FIXTURE UNIT CAPACITY: 8 GPH. FIXTURE CABINET MATERIAL: VINYL COVERED STEEL. THERMOSTAT: ADJUSTABLE SET AT 50°F. ELECTRICAL: 120V, 3 WIRE CORD AND PLUG. ACTIVATION: PUSH BAR ACTUATION MECHANISM. PLASTIC COMPONENTS INTEGRATED WITH SILVER ION ANTI-MICROBIAL PROTECTION.	1/2"	-	1-1/2"	1-1/2"	FS-1	 MODEL: J.R. SMITH #3101	DESCRIPTION: FLOOR SINK WITH SEDIMENT BUCKET, ACID RESISTANT COATED CAST IRON BODY, FLASHING COLLAR, AND REMOVABLE 8-1/2" SQUARE NICKEL BRONZE TOP. PROVIDE THE FOLLOWING FEATURES: REMARKS: 1. HINGED GRATE 2. 3/4 GRATE SEE FLOOR PLANS FOR WASTE AND VENT SIZE REQUIREMENTS.	3/4"	-	2"	1-1/2"	

REMARKS:  
(1) SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS INCLUDING STOPS, FITTINGS AND ALL OTHER SPECIALTIES.  
(2) PICTURES OF FIXTURES DO NOT INDICATE ACTUAL FIXTURE SPECIFIED. PICTURES ARE GRAPHICAL IN NATURE. SEE DESCRIPTION FOR ACTUAL FIXTURE AND MODEL.

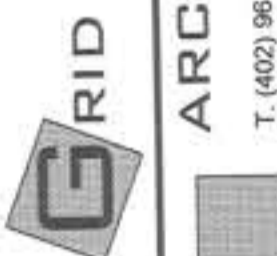
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NO.	DATE	DESCRIPTION

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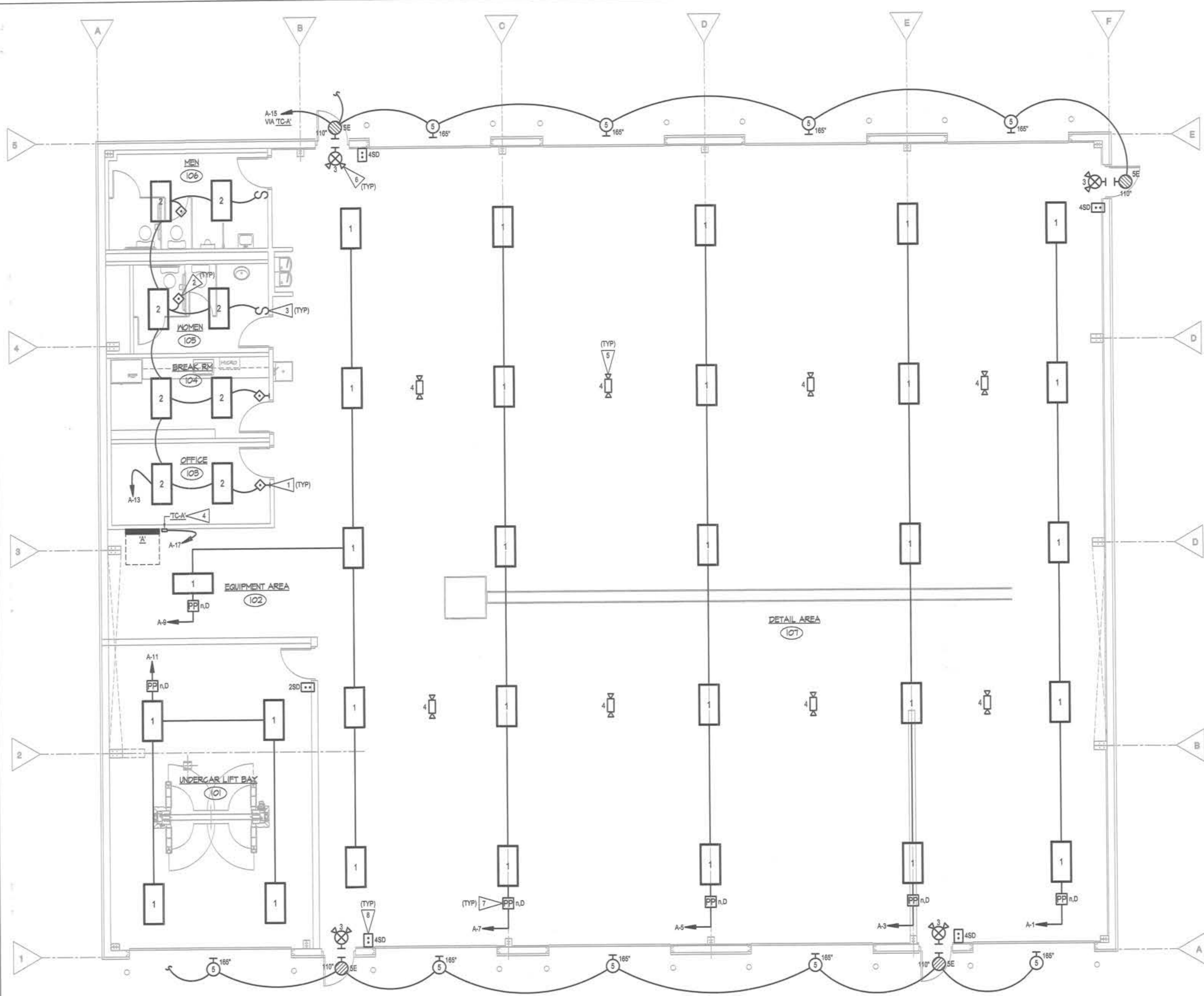
ARCHITECTURE, LLC  
T. (402) 960-6625  
F. (866) 443-7821



M2.4  
MECHANICAL SCHEDULES







**FLOOR PLAN - LIGHTING**  
3/16" = 1'-0"

**GENERAL NOTES**

- MINIMUM SIZE FOR BRANCH CIRCUIT CONDUITS SHALL BE 1/2" MINIMUM DATA/COMMUNICATIONS CONDUIT SIZE SHALL BE 1" SEE DRAWINGS FOR AREAS WHERE LARGER CONDUITS ARE REQUIRED.
- AT CONTRACTOR'S OPTION, THE USE OF MULTI-WIRE BRANCH CIRCUITS IS ALLOWED. PROVIDE MEANS TO SIMULTANEOUSLY DISCONNECT ALL CIRCUIT BREAKERS SHARING A COMMON NEUTRAL.
- PROVIDE A GREEN INSULATED GROUND WIRE IN ALL LIGHTING AND POWER BRANCH CIRCUITS.
- COORDINATE ROUTING OF EXPOSED CONDUIT WITH OWNER AND GENERAL CONTRACTOR PRIOR TO ROUGH IN. MOUNT EXPOSED CONDUIT TIGHT AND PARALLEL TO STRUCTURE.
- TAKE CARE TO ENSURE THAT ALL ELECTRICAL AND MECHANICAL DEVICES LOCATED WITHIN SAME VICINITY OF EACH OTHER ARE ALIGNED BOTH VERTICALLY AND HORIZONTALLY. SEE DETAIL FOR ADDITIONAL INFORMATION.

**FLAG NOTES**

- PROVIDE LINE VOLTAGE WALL BOX OCCUPANCY SENSOR - SEE LIGHTING CONTROL DEVICE SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- PROVIDE NEW CEILING MOUNTED OCCUPANCY SENSOR - SEE SPECIFICATIONS. ROUTE CIRCUIT THROUGH NEW POWER PACK WITH AUXILIARY RELAYS, CONTROLLED BY NEW OCCUPANCY SENSOR(S). PROVIDE AUXILIARY POWER PACKS AS REQUIRED. SEE DETAIL FOR ADDITIONAL INFORMATION.
- CONNECT SWITCH DOWNSTREAM OF OCCUPANCY SENSORS. SWITCH SHALL SERVE AS MANUAL SHUTOFF ONLY.
- PROVIDE NEW FOUR CHANNEL SEVEN DAY DIGITAL TIME CLOCK - TORK #DTS SERIES OR EQUAL. COORDINATE TIME CLOCK LOCATION WITH OWNER PRIOR TO ROUGH IN. PROVIDE 120V CONNECTION TO TIME CLOCK.
- SURFACE MOUNT EMERGENCY LIGHT TO BOTTOM OF STRUCTURE. MOUNT FIXTURE PARALLEL WITH GENERAL LIGHT FIXTURES IN SAME ROOM. CONNECT EMERGENCY LIGHTS TO DEDICATED CIRCUIT IN PANEL 'A'. PROVIDE LOCKABLE CIRCUIT BREAKER.
- CONNECT EXIT LIGHTS TO DEDICATED CIRCUIT IN PANEL 'A'. PROVIDE LOCKABLE CIRCUIT BREAKER.
- LIGHTING CONTROL NETWORK POWER PACK - SEE LIGHTING CONTROL DEVICE SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. LOCATE AT STRUCTURE IN APPROVED JUNCTION BOX. PROVIDE ALL REQUIRED LOW VOLTAGE AND LINE VOLTAGE CONNECTIONS.
- PROVIDE LIGHTING CONTROL NETWORK ENTRY STATION - SEE LIGHTING CONTROL DEVICE SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

**LIGHTING FIXTURE SCHEDULE**

FIXT #	MANUFACTURER	CATALOG NO. (NOTE 2)	LAMP DATA			MOUNTING				DESCRIPTION	REMARKS	
			QTY.	SIZE	TYPE (NOTE 3)	VOLTAGE	SLUR	FLUSH	CLS.			WALL
1	LITHONIA, NOTE 1	ISE L48 3000LM S080 MD MVOLT 55K 80CRI	N/A	30,000 LM / 5000K	LED	120/277	X	X	X	15 FT	2X4 HIGH BAY	
2	LITHONIA, NOTE 1	EPANL 2X4 4800LM 80CRI 35K MHV10 EZT MVOLT	N/A	4,800 LM / 3500K	LED	120/277	X	X	X		2X4 FLAT PANEL	
3	LITHONIA, NOTE 1	LHQM LED W R HO SD	N/A	N/A	LED	120/277	X	X	X		SINGLE FACE EXIT LT	W/ EMERG. BATTERY
4	LITHONIA, NOTE 1	ELM8 UVOLT LTP SDRT	N/A	N/A	LED	120/277	X	X	X		BATTERY LIGHT	W/ EMERG. BATTERY
5	LITHONIA, NOTE 1	ARC2 LED P5 40K MVOLT	N/A	6,500 LM / 4000K	LED	120/277	X	X	X		WALL PACK	
SE	LITHONIA, NOTE 1	ARC2 LED P5 40K MVOLT EBWC	N/A	6,500 LM / 4000K	LED	120/277	X	X	X		WALL PACK	

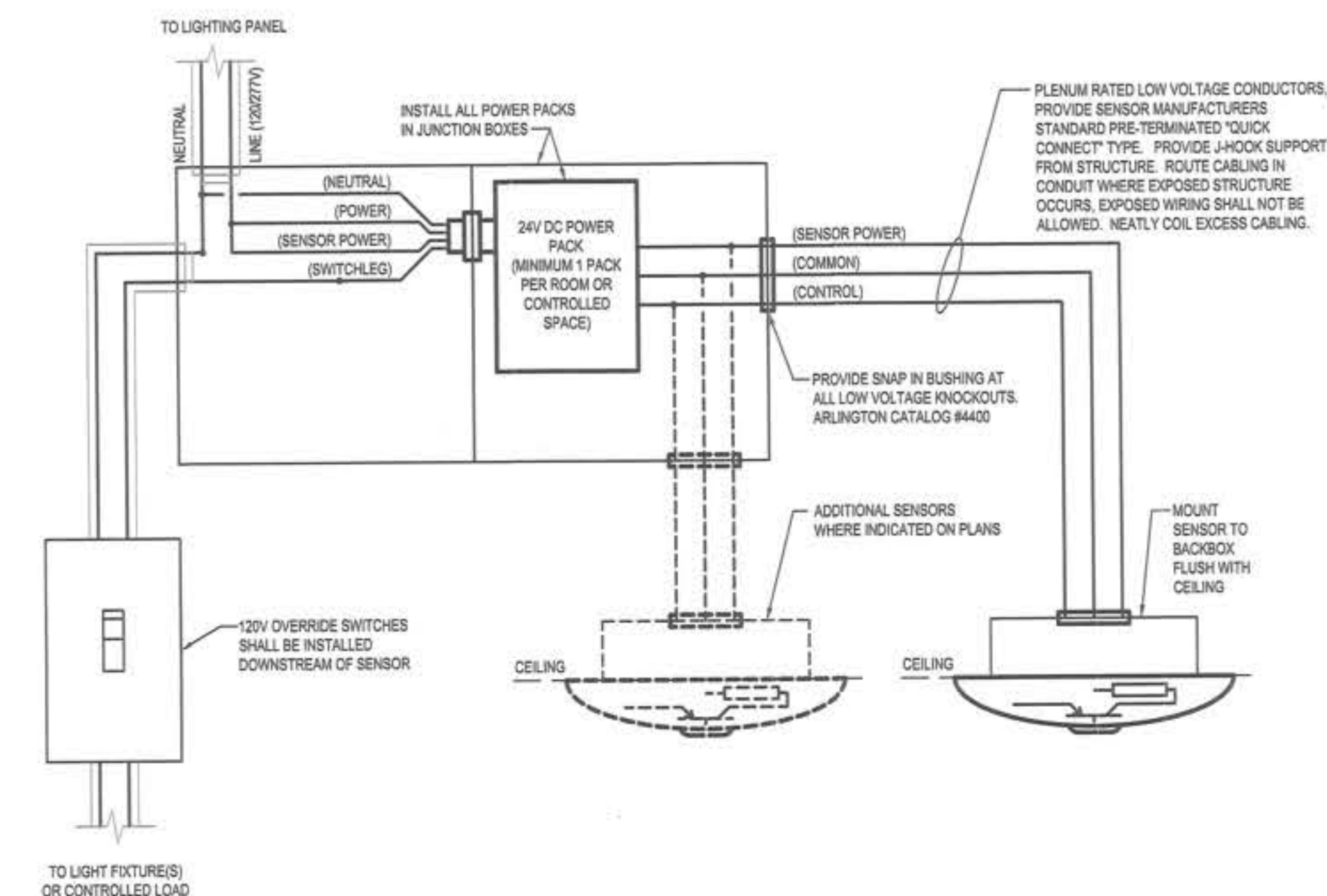
**NOTES:**

- FIXTURE SHALL BE CONSIDERED EQUAL AS MANUFACTURED BY COLUMBIA, DAY-BRITE, COOPER, AND H.E. WILLIAMS.
- CONTRACTOR SHALL VERIFY LIGHT FIXTURE CATALOG NUMBER & INSTALLATION REQUIREMENTS PRIOR TO ORDERING.
- LAMP TYPE DESCRIPTION: F=FLUORESCENT, CF=COMPACT FLUORESCENT, INC=INCANDESCENT, MH=METAL HALIDE, HPS=HIGH PRESSURE SODIUM, MV=MERCURY VAPOR, LED=LIGHT EMITTING DIODE
- PROVIDE WITH POLYCARBONATE LAMP JACKETS.
- FIXTURE SHALL BE CONSIDERED EQUAL AS MANUFACTURED BY PRESCOLITE ARCHITEKTUR, OMEGA REVELATION, COOPER PORTFOLIO, AND WILLIAMS WITH "YOKE" OPTION. ALL DOWN LIGHTS SHALL INCLUDE FACTORY ADJUSTABLE BAR HANGERS.

**LIGHTING CONTROL DEVICE SCHEDULE**

SYMBOL	MANUFACTURER	CATALOG NUMBER	DESCRIPTION
	SENSORSWITCH	nPODM 2S DX	TWO SCENE LIGHTING CONTROL NETWORK ENTRY STATION WITH ON / OFF PUSH BUTTONS AND RAISE / LOWER DIMMING CONTROLS
	SENSORSWITCH	nPODM 4S DX	FOUR SCENE LIGHTING CONTROL NETWORK ENTRY STATION WITH ON / OFF PUSH BUTTONS AND RAISE / LOWER DIMMING CONTROLS
	SENSORSWITCH	nPP16 DS	LIGHTING CONTROL NETWORK POWER PACK - WITH DIMMING

- NOTES:**
- PRODUCTS LISTED INDICATE BASIS OF DESIGN PRODUCTS. REFER TO SPECIFICATIONS FOR ACCEPTABLE EQUIVALENT MANUFACTURERS.
  - COORDINATE DIMMING TYPE REQUIRED WITH ASSOCIATED LIGHT FIXTURE TYPE CONTROLLED.



**TYPICAL CEILING OCCUPANCY SENSOR CONNECTION DETAIL**  
NOT TO SCALE

**REVISIONS/DATES**

NO.	DATE	DESCRIPTION

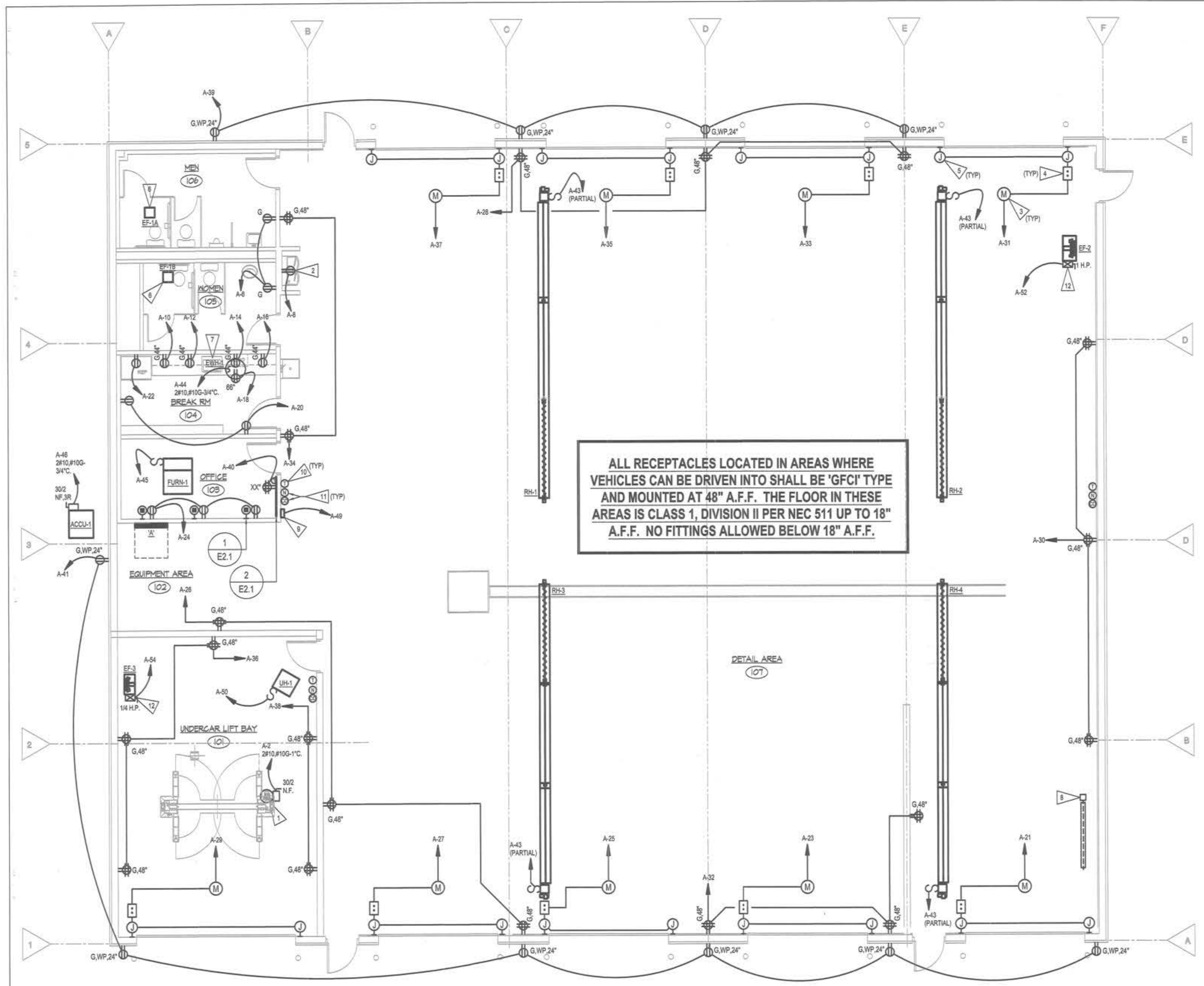
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2171 S HWY 30  
SUITE 101  
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**GRID ARCHITECTURE, LLC**  
T. (402) 960-6625  
F. (866) 442-7821

PROFESSIONAL ELECTRICAL ENGINEER  
GEORGE M. MORRISSEY  
E-8874  
APRIL 5, 2024  
STATE OF NEBRASKA

**E1.1**  
FLOOR PLAN - LIGHTING



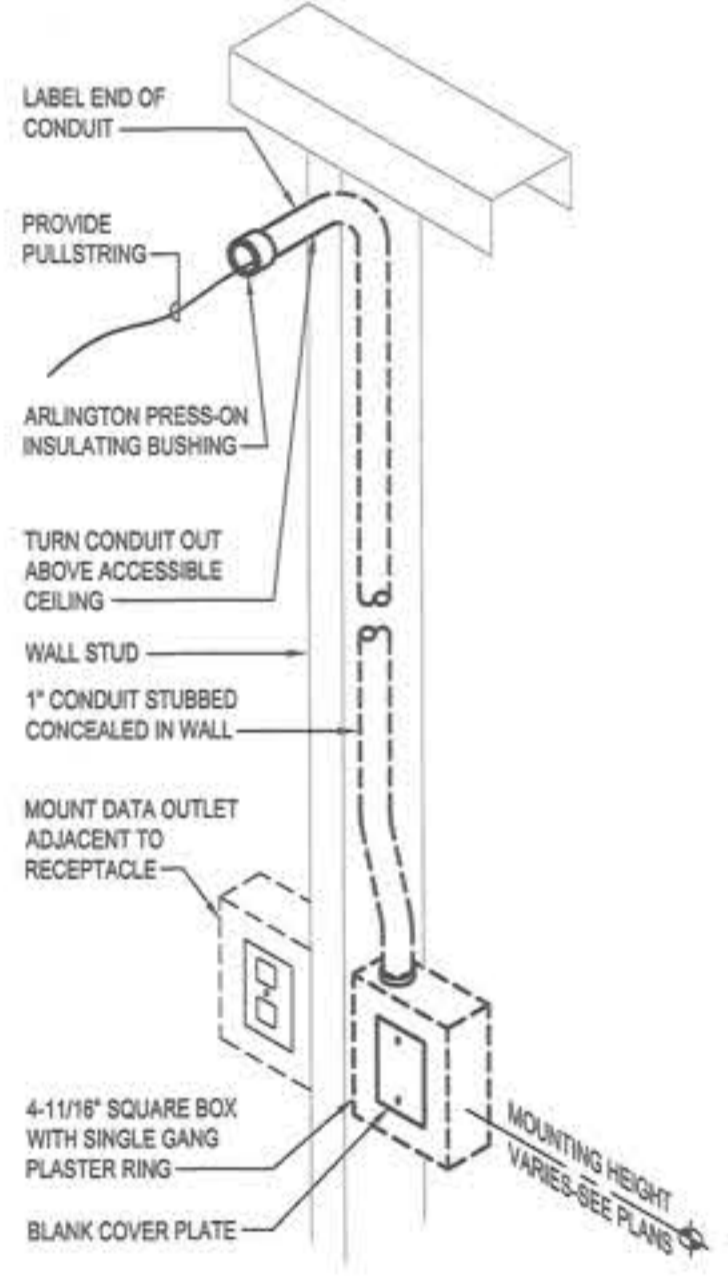
**ALL RECEPTACLES LOCATED IN AREAS WHERE VEHICLES CAN BE DRIVEN INTO SHALL BE 'GFCI' TYPE AND MOUNTED AT 48" A.F.F. THE FLOOR IN THESE AREAS IS CLASS 1, DIVISION II PER NEC 511 UP TO 18" A.F.F. NO FITTINGS ALLOWED BELOW 18" A.F.F.**

**GENERAL NOTES**

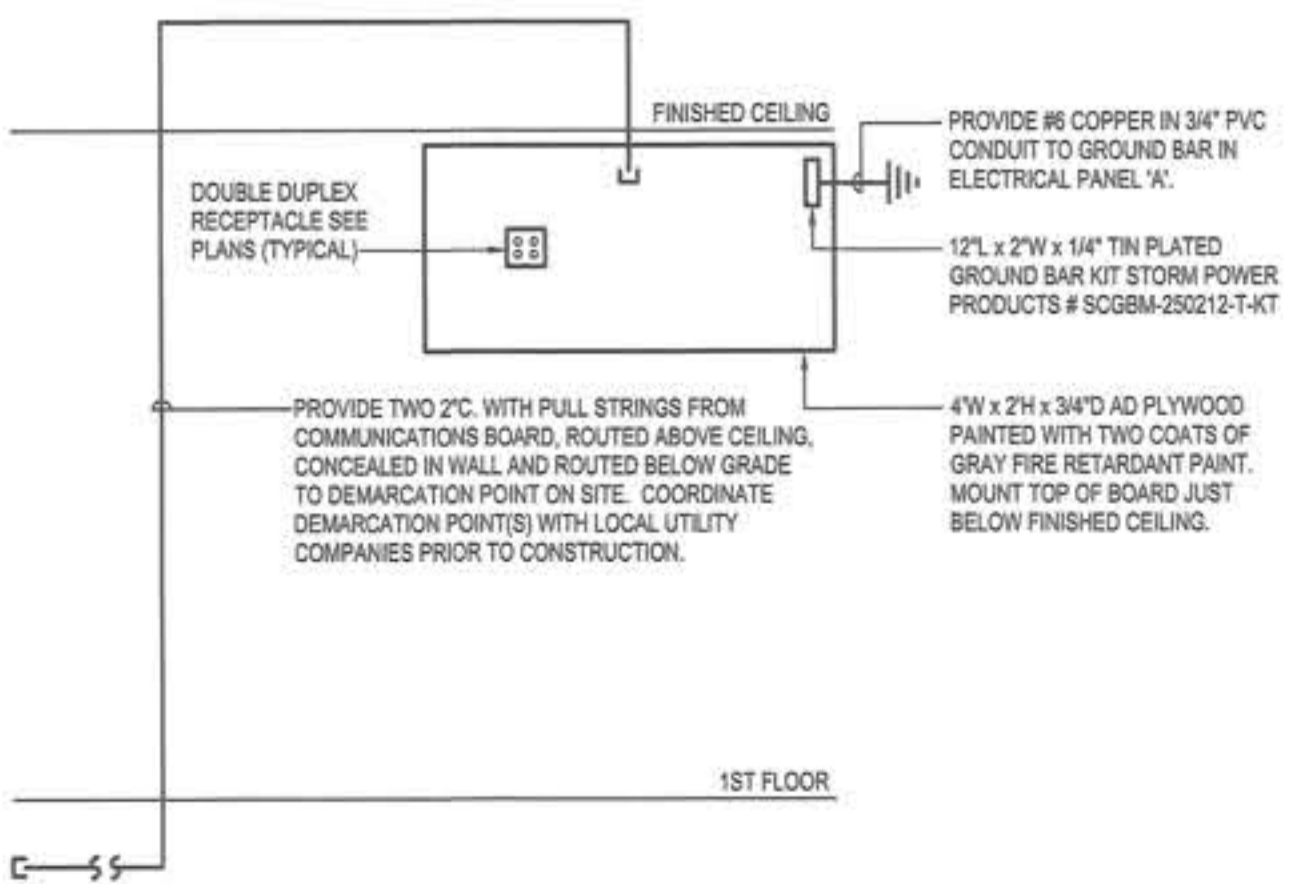
- MINIMUM SIZE FOR BRANCH CIRCUIT CONDUITS SHALL BE 1/2" MINIMUM DATA/COMMUNICATIONS CONDUIT SIZE SHALL BE 1" SEE DRAWINGS FOR AREAS WHERE LARGER CONDUITS ARE REQUIRED.
- AT CONTRACTOR'S OPTION, THE USE OF MULTI-WIRE BRANCH CIRCUITS IS ALLOWED. PROVIDE MEANS TO SIMULTANEOUSLY DISCONNECT ALL CIRCUIT BREAKERS SHARING A COMMON NEUTRAL.
- PROVIDE A GREEN INSULATED GROUND WIRE IN ALL LIGHTING AND POWER BRANCH CIRCUITS.
- COORDINATE ROUTING OF EXPOSED CONDUIT WITH OWNER AND GENERAL CONTRACTOR PRIOR TO ROUGH IN. MOUNT EXPOSED CONDUIT TIGHT AND PARALLEL TO STRUCTURE.
- TAKE CARE TO ENSURE THAT ALL ELECTRICAL AND MECHANICAL DEVICES LOCATED WITHIN SAME VICINITY OF EACH OTHER ARE ALIGNED BOTH VERTICALLY AND HORIZONTALLY. SEE DETAIL 1 FOR ADDITIONAL INFORMATION.

**FLAG NOTES**

- COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT VENDOR PRIOR TO ROUGH IN.
- LOCATE RECEPTACLE FOR ELECTRIC WATER COOLER SO THAT CORD AND PLUG ARE CONCEALED INSIDE OR BEHIND WATER COOLER. PROVIDE 'GFCI' TYPE CIRCUIT BREAKER.
- INSTALL AND PROVIDE FINAL CONNECTION TO OVERHEAD DOOR MOTOR PROVIDED BY EQUIPMENT MANUFACTURER. PROVIDE ALL CONNECTIONS FROM MOTOR TO DOOR SENSOR AND PUSH BUTTONS. VERIFY ELECTRICAL REQUIREMENTS WITH EQUIPMENT MANUFACTURER PRIOR TO ROUGH IN.
- INSTALL DOOR OPERATOR PUSHBUTTON FURNISHED BY EQUIPMENT MANUFACTURER.
- PROVIDE ROUGH IN AND INSTALL DOOR SENSORS FURNISHED BY EQUIPMENT MANUFACTURER.
- CONNECT EXHAUST FAN TO BRANCH CIRCUIT SERVING LIGHT FIXTURES WITHIN SAME ROOM AS EXHAUST FAN. CONNECT DOWNSTREAM OF OCCUPANCY SENSOR(S) SERVING ROOM.
- PROVIDE NEW LOCKABLE CIRCUIT BREAKER IN PANEL INDICATED TO SERVE WATER HEATER. BREAKER SHALL SERVE AS LOCAL DISCONNECTING MEANS PER NEC 422.31(B).
- PROVIDE 120V CONNECTION TO MOTORIZED DAMPER. PROVIDE 1" WITH PULL STRING FROM MOTORIZED DAMPER TO GAS DETECTION AND FAN CONTROL PANEL. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH IN.
- PROVIDE 120V CONNECTION TO GAS DETECTION AND FAN CONTROL PANEL. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH IN.



**DATA/COMM ROUGH-IN DETAIL**  
NOT TO SCALE



**COMMUNICATION BOARD DETAIL**  
NOT TO SCALE

**FLOOR PLAN - POWER**  
3/16" = 1'-0"



REVISIONS/DATES		
NO.	DATE	DESCRIPTION

BEFORE ANY CONTRACTOR PROCEEDS WITH ANY WORK, THE CONTRACTOR SHALL VERIFY THE EXISTING ELECTRICAL AND MECHANICAL CONDITIONS AND SHALL BE RESPONSIBLE FOR ANY DISCREPANCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY APPROVALS FROM THE LOCAL UTILITY COMPANIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY APPROVALS FROM THE LOCAL UTILITY COMPANIES PRIOR TO CONSTRUCTION.

**WOODHOUSE BLAIR DETAIL & ACCESSORY BAY**  
2171 S HWY 30  
SUITE 101  
BLAIR, NEBRASKA

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**GRID ARCHITECTURE, LLC**  
T: (402) 980-6626  
F: (402) 443-7821

**PROFESSIONAL ELECTRICAL SEAL**  
GEORGE W. MORRISSEY  
E-8874  
APRIL 5, 2024  
STATE OF NEBRASKA

**E2.1**  
FLOOR PLAN - POWER

