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# MISSOURI DEPARTMENT OF TRANSPORTATION

Kirksville Mechanics Building  
Northeast District  
22777 Potter Trail, Kirksville, MO 63501  
Adair County

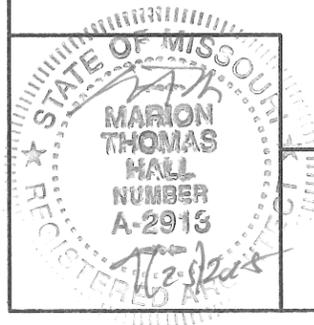
## CODE REQUIREMENTS

BUILDING CODE - CURRENT IBC

PLUMBING CODE - CURRENT IBC

MECHANICAL CODE - CURRENT IBC

ELECTRICAL CODE - CURRENT N.E.C.



# COVER SHEET

MISSOURI DEPARTMENT  
OF TRANSPORTATION

DIVISION OF GENERAL SERVICES  
FACILITIES MANAGEMENT

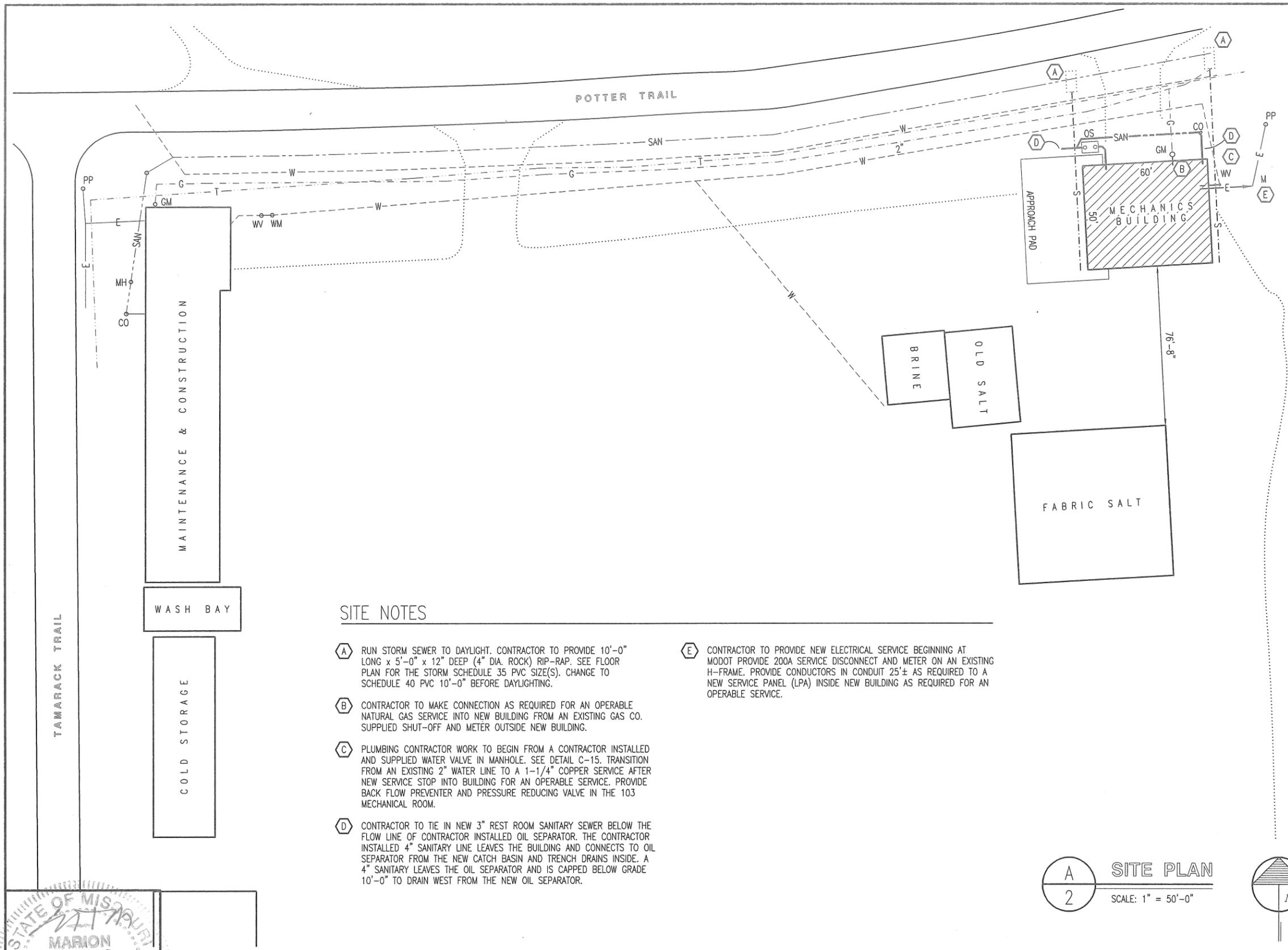
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**LEGEND (EXISTING)**

WATER	---	W	
ELECTRICAL	---	E	
SANITARY	---	SAN	
NATURAL GAS	---	G	
CLEAN OUT	---	CO	ELECTRICAL METER
POWER POLE	---	PP	H-FRAME & DISCONNECT
WATER VALVE	---	WV	WATER METER
GAS METER	---	GM	

**LEGEND (NEW)**

WATER	---	W
ELECTRIC 1 PHASE	---	E
STORM SEWER	---	S
SANITARY SEWER	---	SAN
NATURAL GAS	---	G
OIL SEPARATOR	---	OS
WATER VALE	---	WV

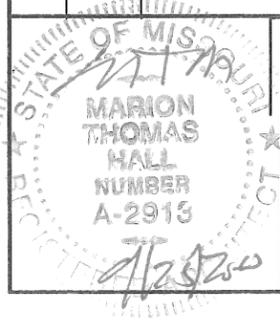
**GRADING NOTES:**

- CONTRACTOR WILL BE RESPONSIBLE FOR:
- EXCAVATION OF THE SUB GRADE.
- EXCAVATING OF FOOTINGS.
- ALL BACK FILL MATERIAL INSIDE AND OUTSIDE NEW BUILDING.
- CRUSHED ROCK BASE UNDER BUILDING & APPROACH SLAB.
- BACK FILL ALONG APPROACH SLAB A MINIMUM OF 6" BELOW TOP OF SLAB AND SIDEWALK.
- FINISHED GRADE TO DRAIN AWAY FROM BUILDING.
- PROVIDE TOP SOIL, FERTILIZE, SEED AND STRAW AT ALL THE LAWN AREAS DISTURBED DURING CONSTRUCTION.
- PROVIDE FINISHED GRADE MATERIAL DISTURBED DURING CONSTRUCTION TO MATCH EXISTING.
- VERIFY UTILITY LOCATIONS BEFORE CONSTRUCTION.
- MODOT TO HAVE THE FOUR CORNERS STAKED AND BUILDING FOOTPRINT & EXTERIOR APPROACH SLAB LEVELLED.
- EXCAVATED SOIL NOT USED CAN BE PLACED ON SITE. AREA TO BE DESIGNATED BY OWNER.

**SITE NOTES**

- A** RUN STORM SEWER TO DAYLIGHT. CONTRACTOR TO PROVIDE 10'-0" LONG x 5'-0" x 12" DEEP (4" DIA. ROCK) RIP-RAP. SEE FLOOR PLAN FOR THE STORM SCHEDULE 35 PVC SIZE(S). CHANGE TO SCHEDULE 40 PVC 10'-0" BEFORE DAYLIGHTING.
- B** CONTRACTOR TO MAKE CONNECTION AS REQUIRED FOR AN OPERABLE NATURAL GAS SERVICE INTO NEW BUILDING FROM AN EXISTING GAS CO. SUPPLIED SHUT-OFF AND METER OUTSIDE NEW BUILDING.
- C** PLUMBING CONTRACTOR WORK TO BEGIN FROM A CONTRACTOR INSTALLED AND SUPPLIED WATER VALVE IN MANHOLE. SEE DETAIL C-15. TRANSITION FROM AN EXISTING 2" WATER LINE TO A 1-1/4" COPPER SERVICE AFTER NEW SERVICE STOP INTO BUILDING FOR AN OPERABLE SERVICE. PROVIDE BACK FLOW PREVENTER AND PRESSURE REDUCING VALVE IN THE 103 MECHANICAL ROOM.
- D** CONTRACTOR TO TIE IN NEW 3" REST ROOM SANITARY SEWER BELOW THE FLOW LINE OF CONTRACTOR INSTALLED OIL SEPARATOR. THE CONTRACTOR INSTALLED 4" SANITARY LINE LEAVES THE BUILDING AND CONNECTS TO OIL SEPARATOR FROM THE NEW CATCH BASIN AND TRENCH DRAINS INSIDE. A 4" SANITARY LEAVES THE OIL SEPARATOR AND IS CAPPED BELOW GRADE 10'-0" TO DRAIN WEST FROM THE NEW OIL SEPARATOR.
- E** CONTRACTOR TO PROVIDE NEW ELECTRICAL SERVICE BEGINNING AT MODOT PROVIDE 200A SERVICE DISCONNECT AND METER ON AN EXISTING H-FRAME. PROVIDE CONDUCTORS IN CONDUIT 25'± AS REQUIRED TO A NEW SERVICE PANEL (LPA) INSIDE NEW BUILDING AS REQUIRED FOR AN OPERABLE SERVICE.

**A**  
**2** **SITE PLAN**  
SCALE: 1" = 50'-0"

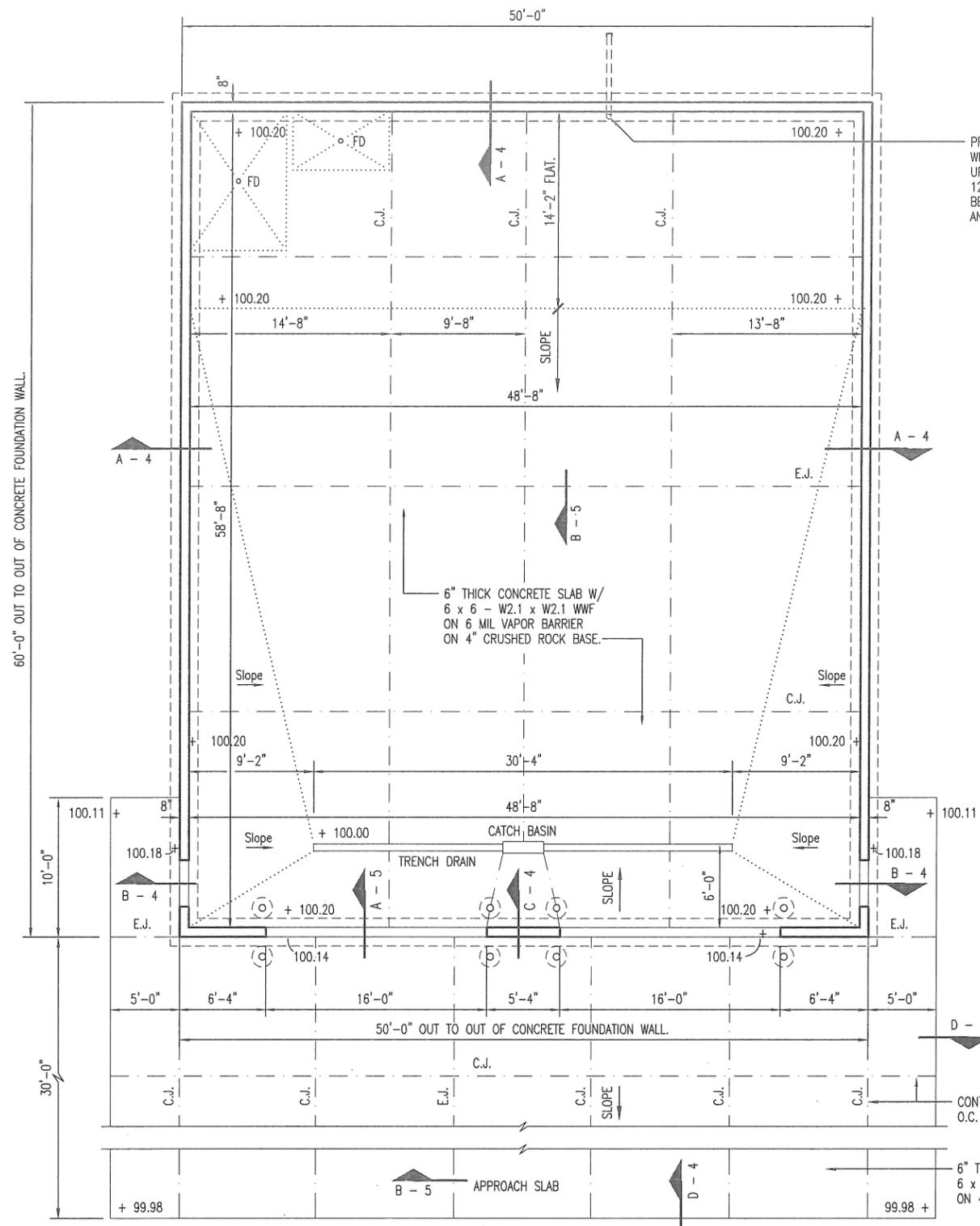


**SITE PLAN**

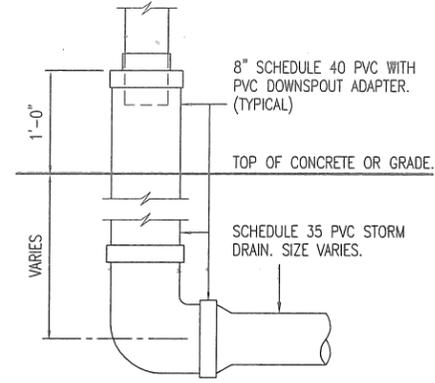
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DIVISION OF GENERAL SERVICES  
FACILITIES MANAGEMENT

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PROVIDE (1) 4" SCH 40 PVC WITH FIBER OPTIC SWEEPS UP THROUGH 101 MECHANICS 12" A.F.F. EXTEND 5'-0" BEYOND BACK OF BUILDING AND CAP 24" BELOW GRADE.



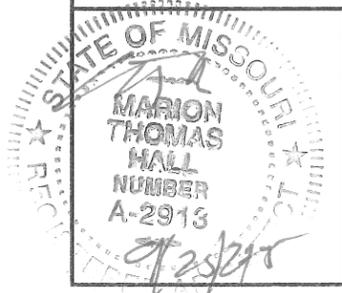
**B**  
3  
DOWNSPOUT ADAPTER  
SCALE: N.T.S.

**A**  
3  
FOUNDATION PLAN  
SCALE: 3/32" = 1'-0"



CONTROL JOINTS @ 10'-0" O.C. W/ SEALANT. (TYPICAL)

6" THICK CONCRETE SLAB W/ 6 x 6 - W2.1 x W2.1 WWF ON 4" CRUSHED ROCK BASE.

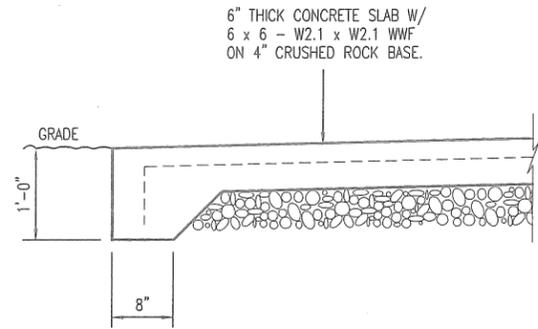


# FOUNDATION PLAN

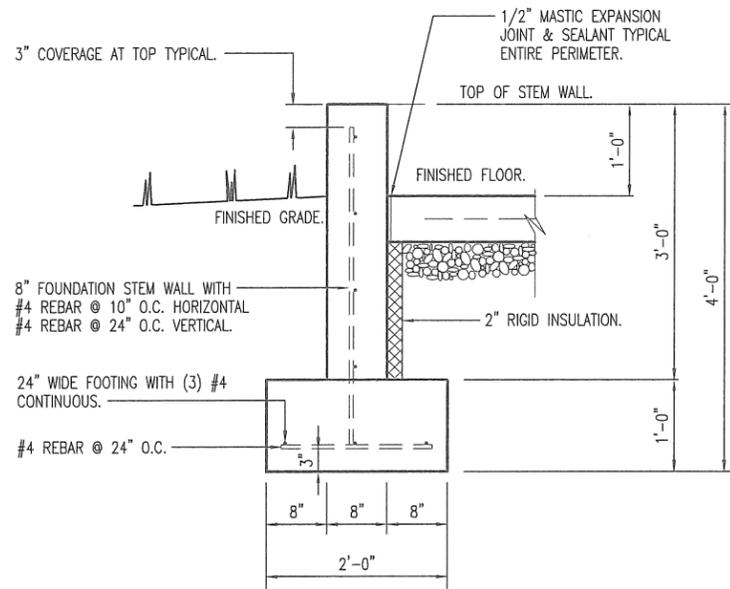
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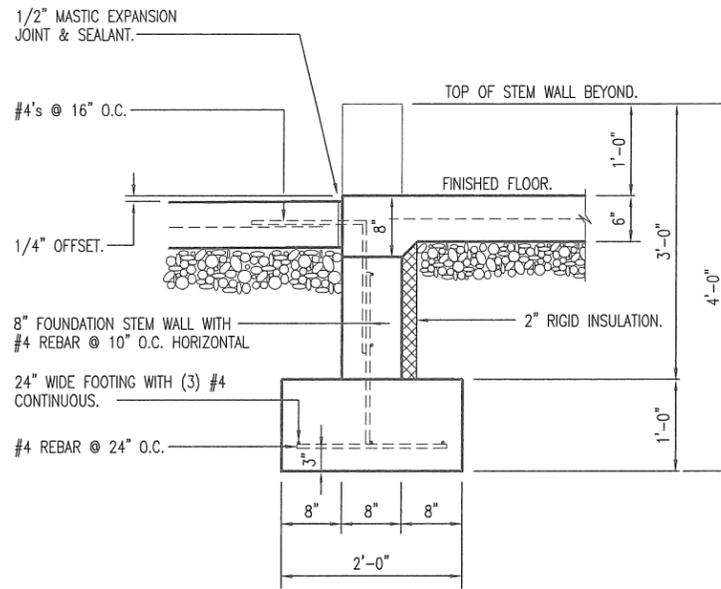
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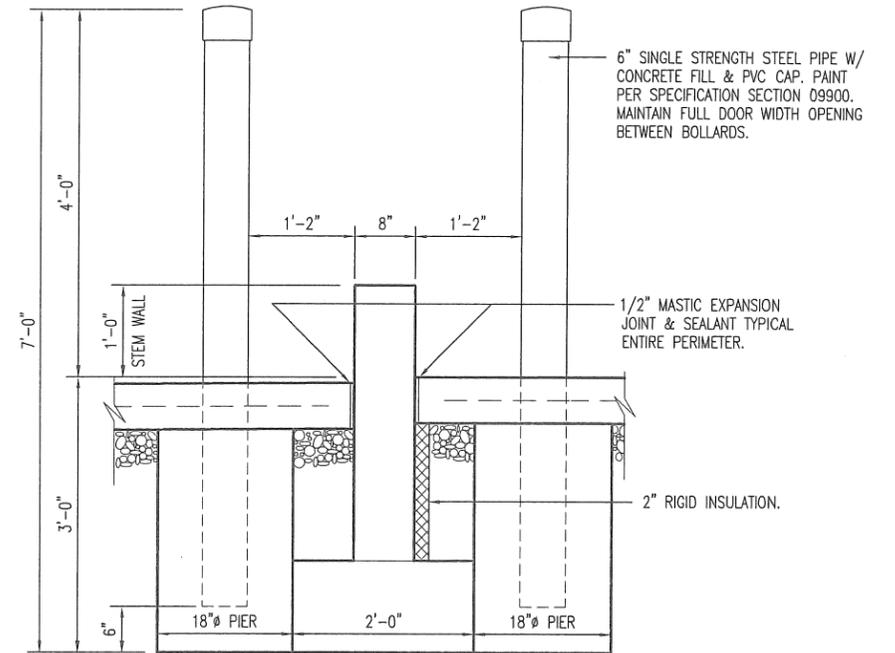
**D** SIDEWALK SECTION  
4 SCALE: 1/2" = 1'-0"



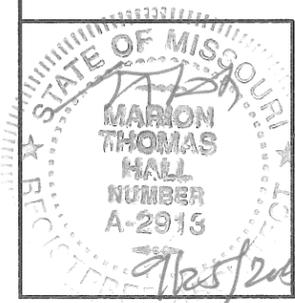
**A** STEM WALL  
4 SCALE: 1/2" = 1'-0"



**B** EXTERIOR STEM WALL @ DOOR  
4 SCALE: 1/2" = 1'-0"



**C** BOLLARD @ FOOTING DETAIL  
4 SCALE: 1/2" = 1'-0"



# FOUNDATION DETAILS

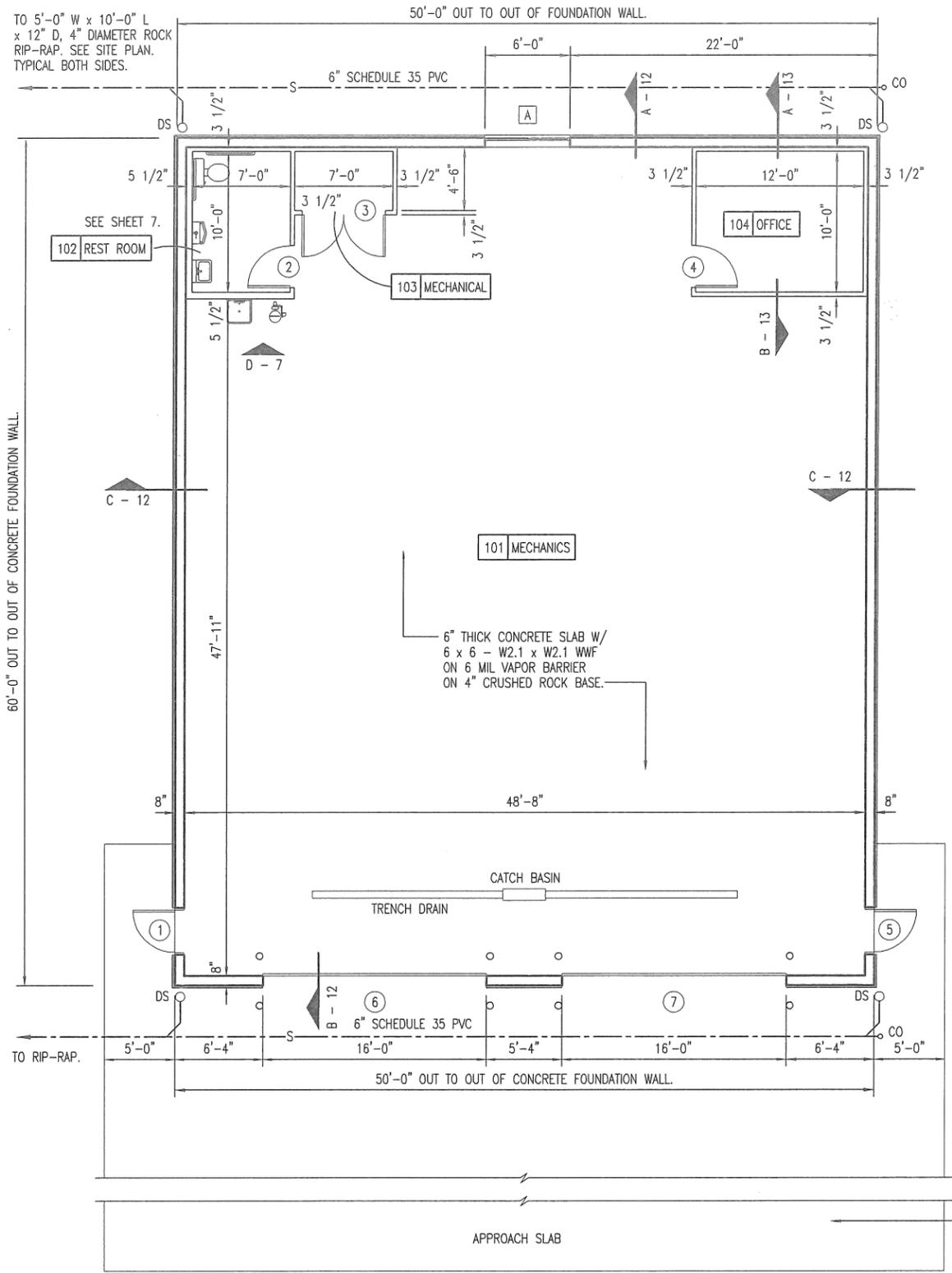
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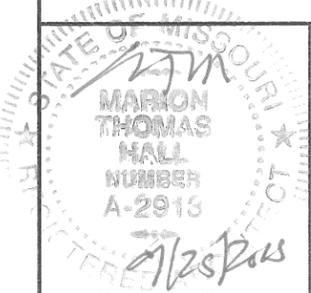
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**A**  
**6** FLOOR PLAN  
SCALE: 3/32" = 1'-0"

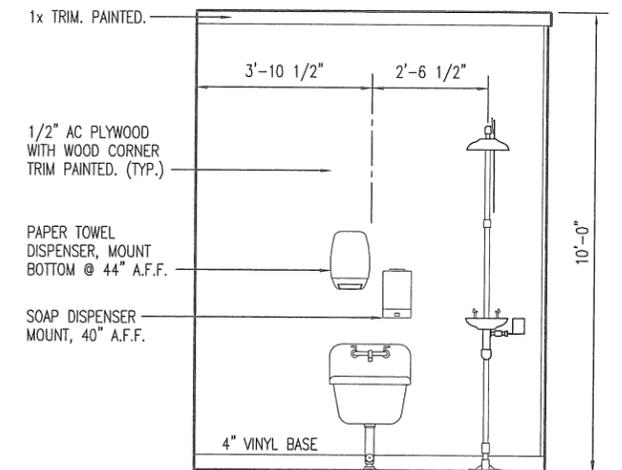
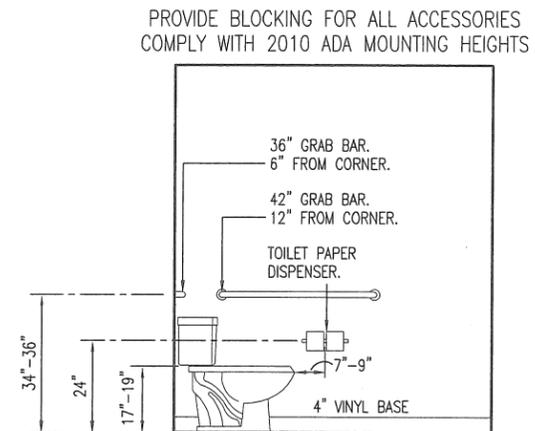
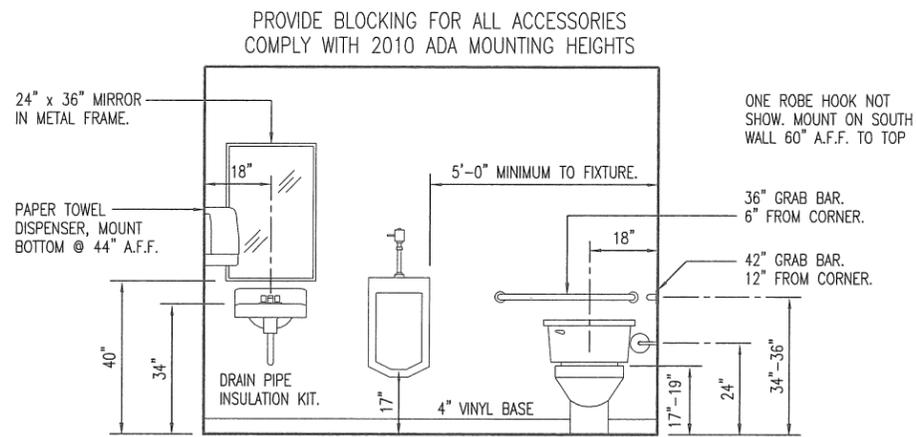
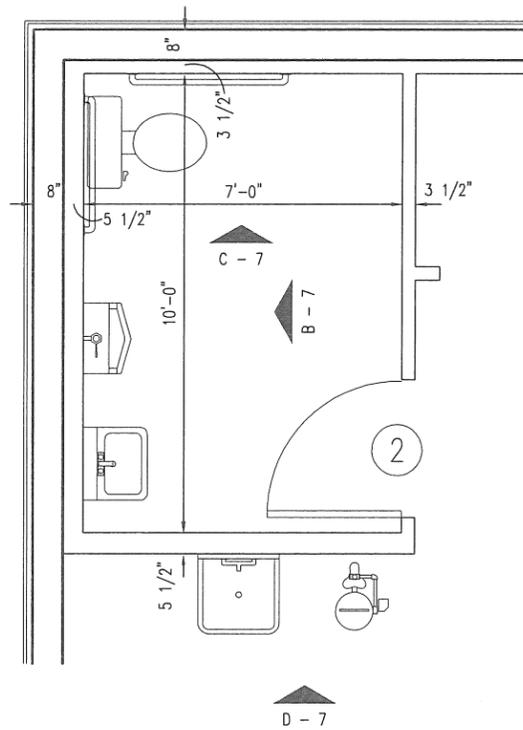


# FLOOR PLAN

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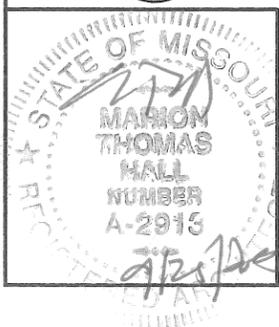
ADA  
A REST ROOM  
7  
SCALE: 1/4" = 1'-0"



NORTH  
B REST ROOM ELEVATION  
7  
SCALE: 1/4" = 1'-0"

EAST  
C REST ROOM ELEVATION  
7  
SCALE: 1/4" = 1'-0"

D FIXTURE ELEVATION  
7  
SCALE: 1/4" = 1'-0"



# REST ROOM PLAN

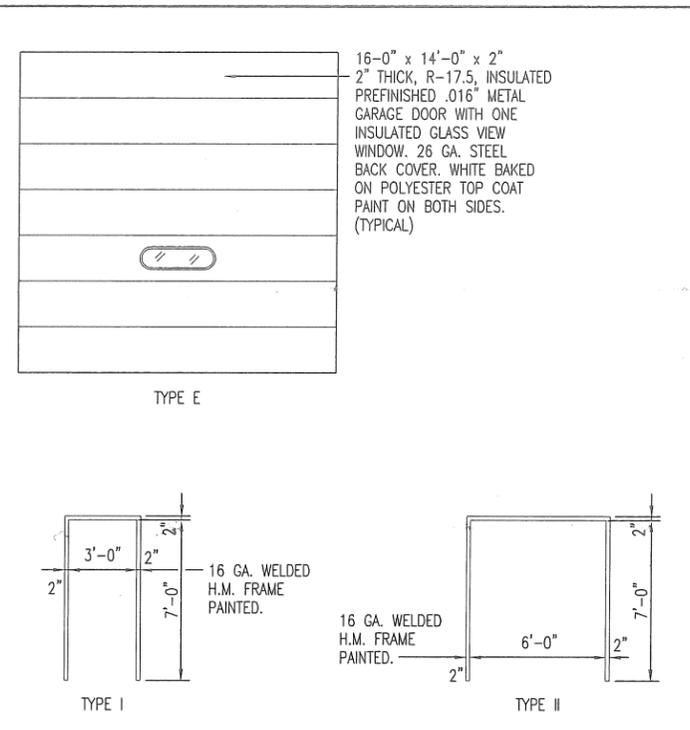
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DOOR SCHEDULE							
NO.	SIZE	SWING	DR. TYPE	FRM. TYPE	DETAIL	DEPTH	HDWR. GRP.
1	3'-0" x 7'-0" x 1-3/4"	LHR	D	I	C-11	6-1/2"	1
2	3'-0" x 7'-0" x 1-3/4"	LH	A	I	D-11	6-1/2"	2
3	(2) 3'-0" x 7'-0" x 1-3/4"	RHR	C	II	D-11	6-1/2"	3
4	3'-0" x 7'-0" x 1-3/4"	RH	B	I	D-11	6-1/2"	4
5	3'-0" x 7'-0" x 1-3/4"	RHR	D	I	C-11	6-1/2"	1
6	16'-0" x 14'-0" x 2"	-	E	-	A & B-11	-	-
7	16'-0" x 14'-0" x 2"	-	E	-	A & B-11	-	-



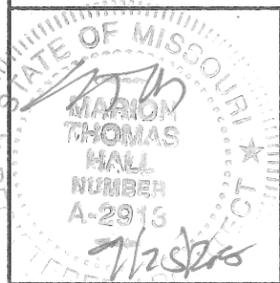
WINDOW SCHEDULE	
	SEE DETAIL F-11.
6'-0" x 3'-0" ALUMINUM DOUBLE HORIZONTAL SLIDER WITH SECURITY SCREEN.	SILL HEIGHT: 48" A.F.F.

FINISH SCHEDULE															
NO.	ROOM	FLOOR		WALLS					BASE		CEILING				
		CURE AND SEALER ON CONCRETE.	6" COMPACTED TYPE 5 ROCK.	26 GA. EXTERIOR PANELS.	26 GA. INTERIOR PANELS	1/2" AC PLYWOOD ON EXTERIOR OF OFFICE RR OR MECHANICAL.	5/8" GYPSUM BOARD.	5/8" GREEN GYP. BD. PAINTED.	PAINTED ON PLYWOOD.	4" VINYL.	4" VINYL ON EXTERIOR OF OFFICE RR OR MECHANICAL.	NONE	26 GA. CEILING PANELS.	NONE	ACOUSTICAL CEILING TILE @ 8'-0" A.F.F.
101	MECHANICS	●			●	●		●		●	●	●			●
102	REST ROOM	●						●	●	●					●
103	MECHANICAL	●						●	●	●				●	
104	OFFICE	●					●	●	●	●				●	

HVAC SCHEDULE						
SYM.	UNIT	MANUFACTURER	BTU OUTPUT	FUEL	VOLTAGE	REMARKS
A	36" x 36" SHUTTER MOUNT EXHAUST FAN WITH WEATHERHOOD	DAYTON 1HLB6 & 1WBW2 OR EQUAL 6.4 AMPS	6,480 CFM	ELECTRIC	115	COMMERCIAL TYPE BELT DRIVE WALL EXHAUST FAN INCLUDING OSHA GUARD AND SHUTTER.
B	MOTORIZED DAMPER WITH WEATHERHOOD	DAYTON MODEL 3C728 & 1WBW1 OR EQUAL .37 AMPS	--	ELECTRIC	115	30" MEDIUM GRADE, MOTORIZED, GALVANIZED STEEL DAMPER WITH 1HP MOTOR. WIRE TO OPEN WHEN EXHAUST FAN IS TURNED ON.
C	GAS FIRED UNIT HEATER	REZNOR MODEL UDAP 225 OR EQUAL	186,750	NATURAL GAS	115	SINGLE BURNER COMBUSTION, DIRECT SPARK IGNITION, 100% LOCK-OUT & CL-1 STANDARD HEATING ONLY THERMOSTAT.
D	SHUTTER-MOUNT EXHAUST FAN	DAYTON MODEL 1HKL9 & 6HKV6 COVER OR EQUAL.	140 CFM	ELECTRIC	115	7" DIAMETER PROPELLER, VERTICAL MOUNT, OSHA GUARD, 1.5 AMP MOTOR AND MAGNETIC LOUVER. INSULATED FAN COVER.
E	ELECTRIC UNIT HEATER	QMARK MODEL CWH1101DS OR EQUAL	1706	ELECTRIC	120	INCLUDE CWH2S-2 FOR SEMI RECESSED, INCLUDE LOUVER GRILLE, WITH A BUILT-IN THERMOSTAT. WIRE FOR 500 WATTS, 4.2 AMP.
F	FRIGIDAIRE PTAC HEAT PUMP WITH BACKUP ELECT. HEAT	#FRP90ETT2R SILENT DESIGN 30 AMP FUSE.	COOL 14.6K HEAT 13.9K HEAT P 13.6K	ELECTRIC	208/230	INCLUDE WALL SLEEVE & OUTDOOR GRILLE COOL 7.5 AMPS, HEAT PUMP 6.2 AMPS. ELECTRIC HEATER 20.5 AMPS. DRAIN OUTSIDE.
G	CARBON MONOXIDE EXHAUST SYSTEM	CAR-MON MODELS SERIES BA AND CMW-9 OR EQUAL	--	ELECTRIC	115	INCLUDE HOSE, BALANCER, DUCTING, EXTERIOR WALL HOOD AND FLANGE MOUNTED EXHAUST FAN, 3/4 HP MOTOR, 13.8 AMP.

**GENERAL NOTES:**

BUILDING MANUFACTURER TO FURNISH ALL NECESSARY FLASHING AND TRIM TO PROVIDE A NEAT, WEATHERPROOF FIT AT ALL DOORS, COLUMNS AND ANY LOCATION WHERE THE METAL PANELS MAY BE CUT.

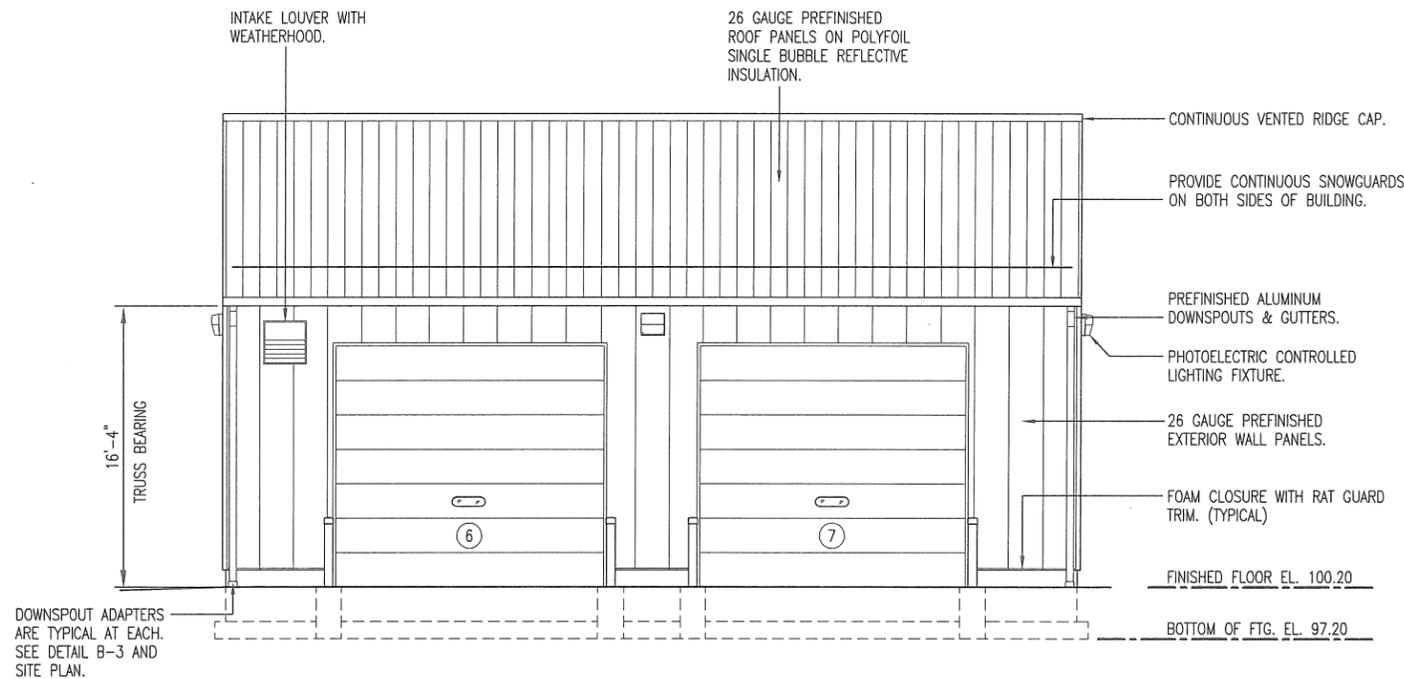


# SCHEDULES

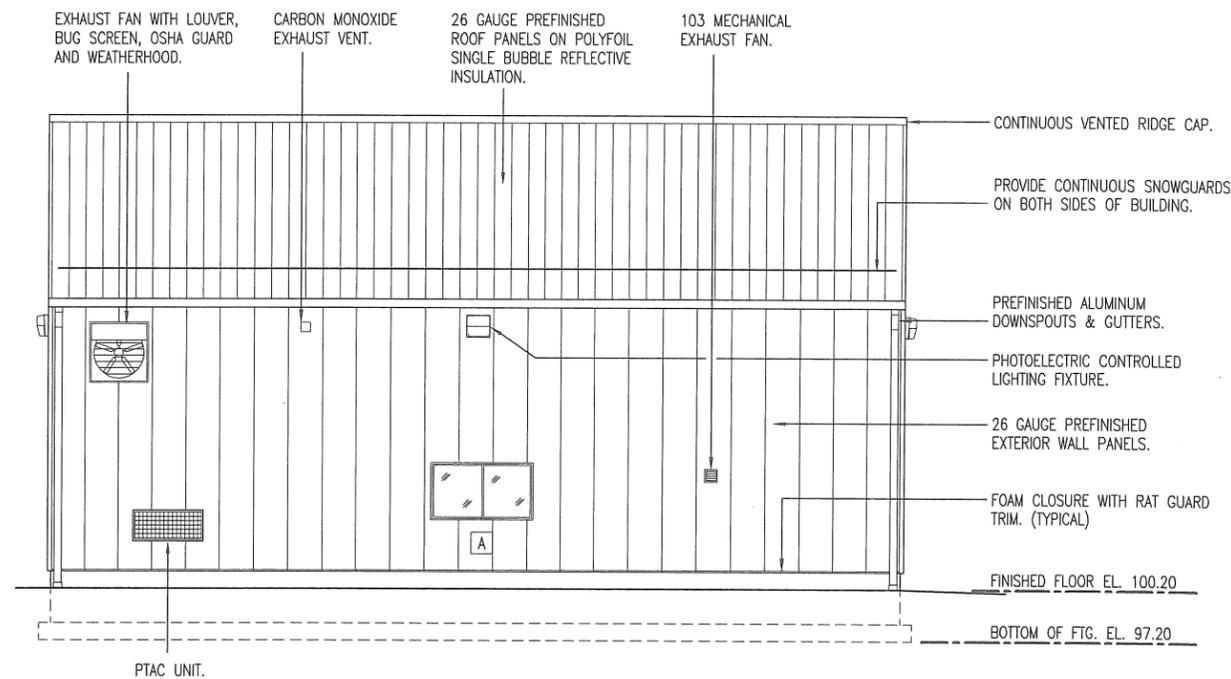
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FACILITIES MANAGEMENT

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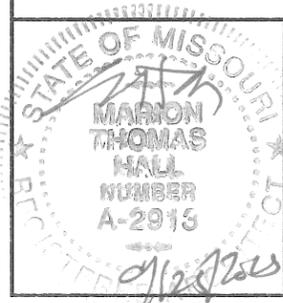
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**A** WEST ELEVATION  
 9 SCALE: 3/32" = 1'-0"



**B** EAST ELEVATION  
 9 SCALE: 3/32" = 1'-0"



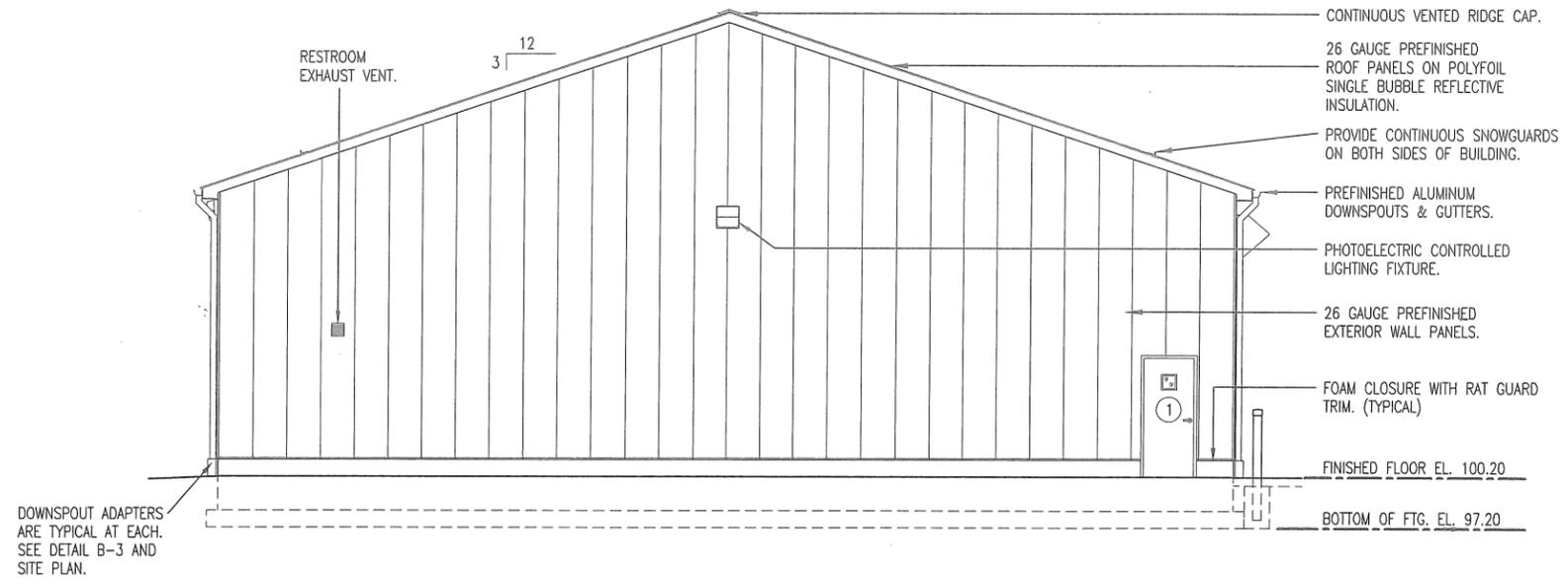
# EAST & WEST ELEVATIONS

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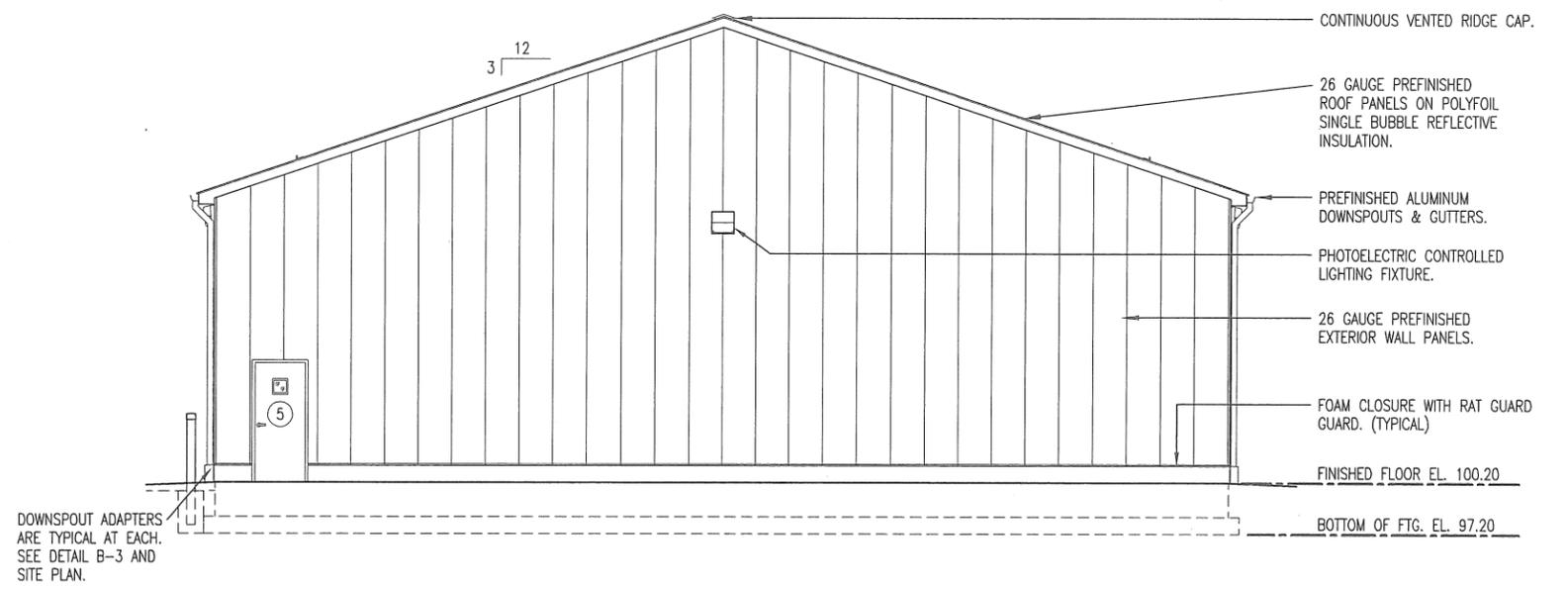
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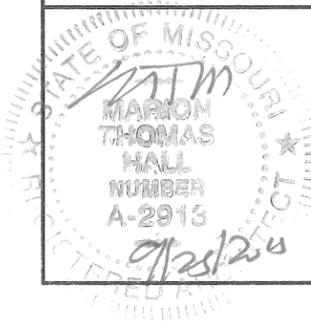
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**B**  
10 **NORTH ELEVATION**  
SCALE: 3/32" = 1'-0"



**A**  
10 **SOUTH ELEVATION**  
SCALE: 3/32" = 1'-0"

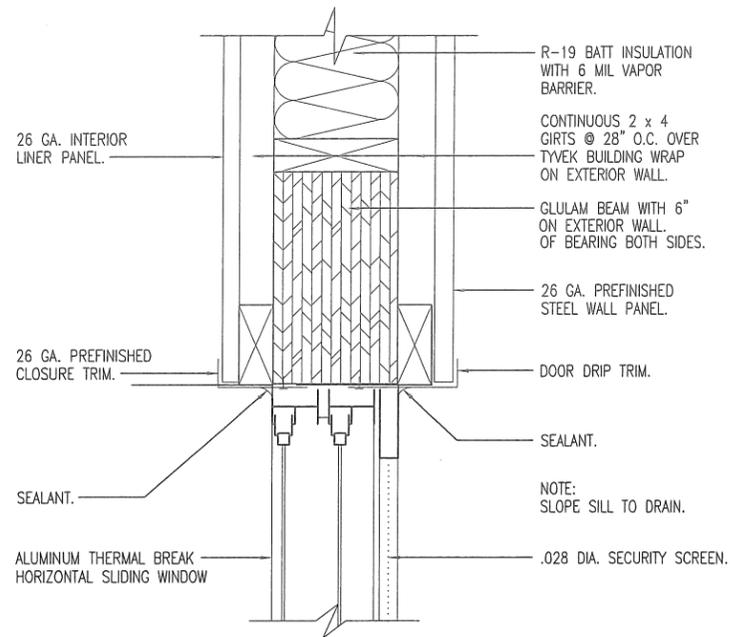


**NORTH & SOUTH ELEVATIONS**

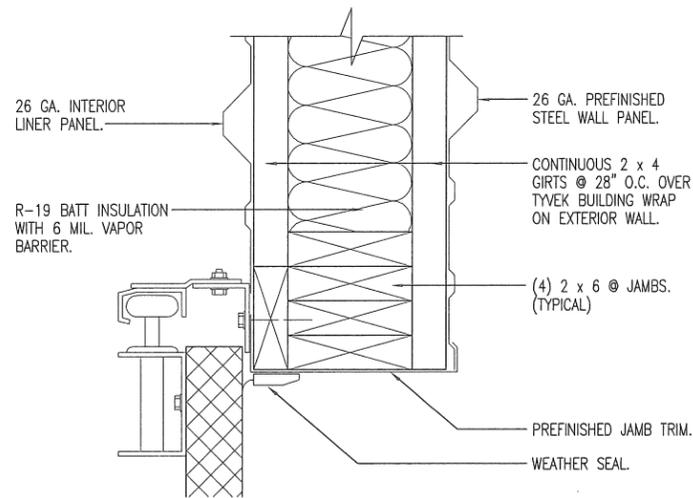
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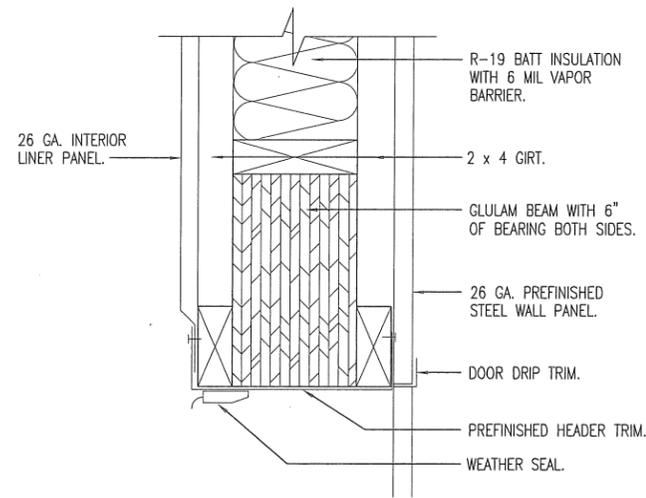
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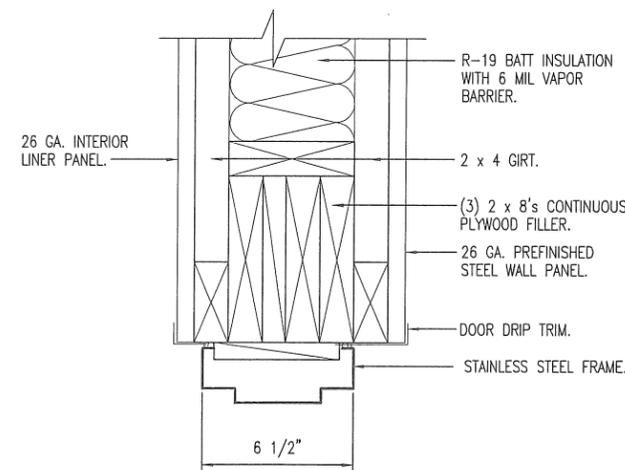
**E** JAMB & SILL SIMILAR  
**WINDOW HEAD**  
11 SCALE: 1-1/2" = 1'-0"



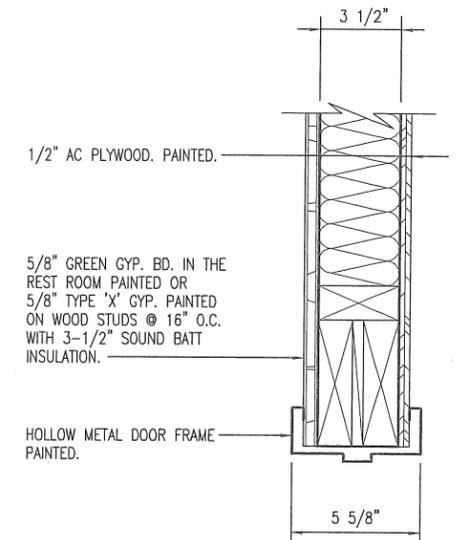
**A** GARAGE DOOR JAMB  
11 SCALE: 1-1/2" = 1'-0"



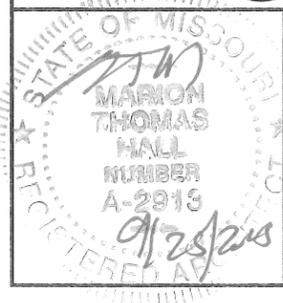
**B** GARAGE DOOR HEAD  
11 SCALE: 1-1/2" = 1'-0"



**C** DOOR HEADER/JAMB  
11 SCALE: 1-1/2" = 1'-0"



**D** JAMB SIMILAR  
**DOOR HEAD**  
11 SCALE: 1-1/2" = 1'-0"



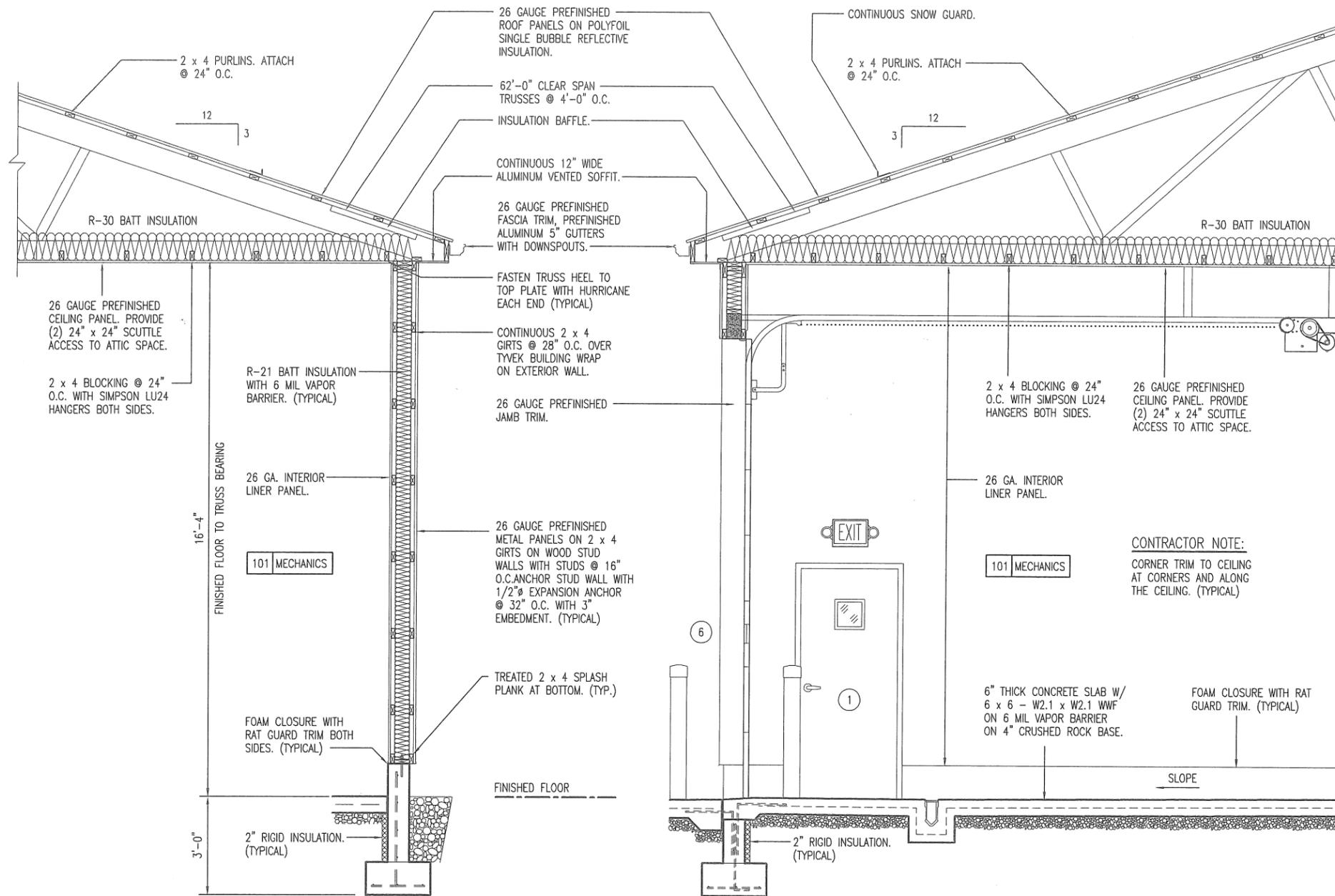
# HEAD & JAMB DETAILS

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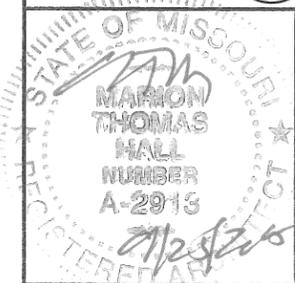
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**A** SIDEWALL SECTION  
12 SCALE: 1/4" = 1'-0"

**B** OVERHEAD DOOR SECTION  
12 SCALE: 1/4" = 1'-0"

**C** ENDWALL SECTION  
12 SCALE: 1/4" = 1'-0"

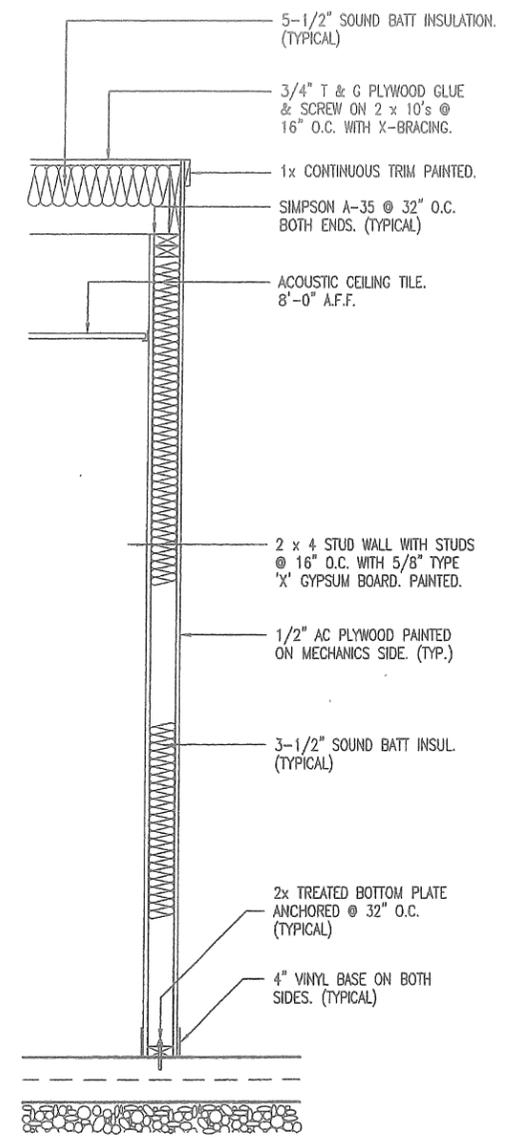
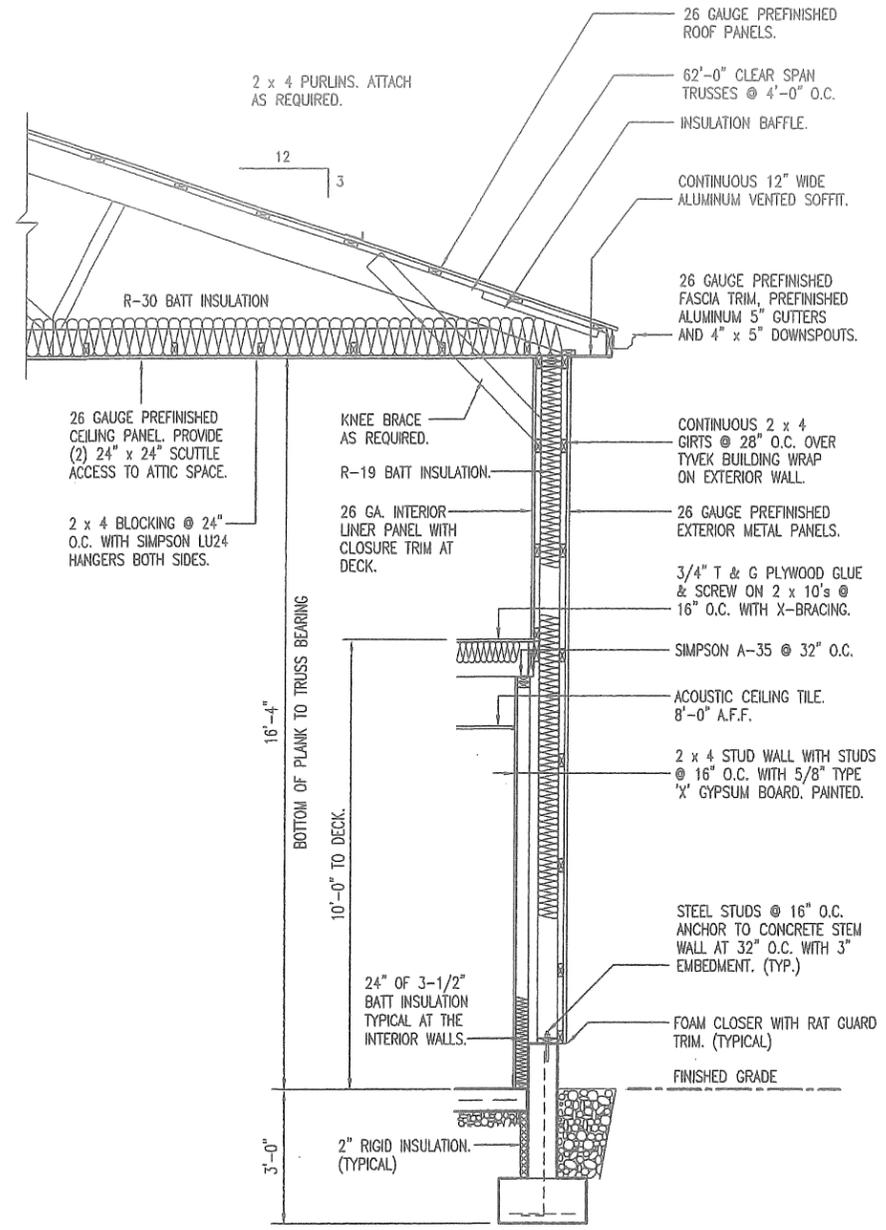


# WALL SECTIONS

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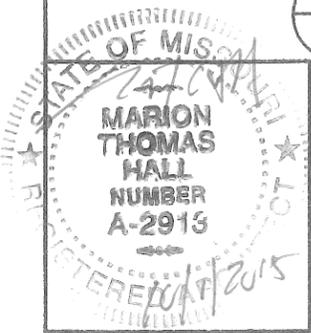
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**A** SIDEWALL SECTION  
 13 SCALE: 1/4" = 1'-0"

**B** WALL SECTION  
 13 SCALE: 1/2" = 1'-0"

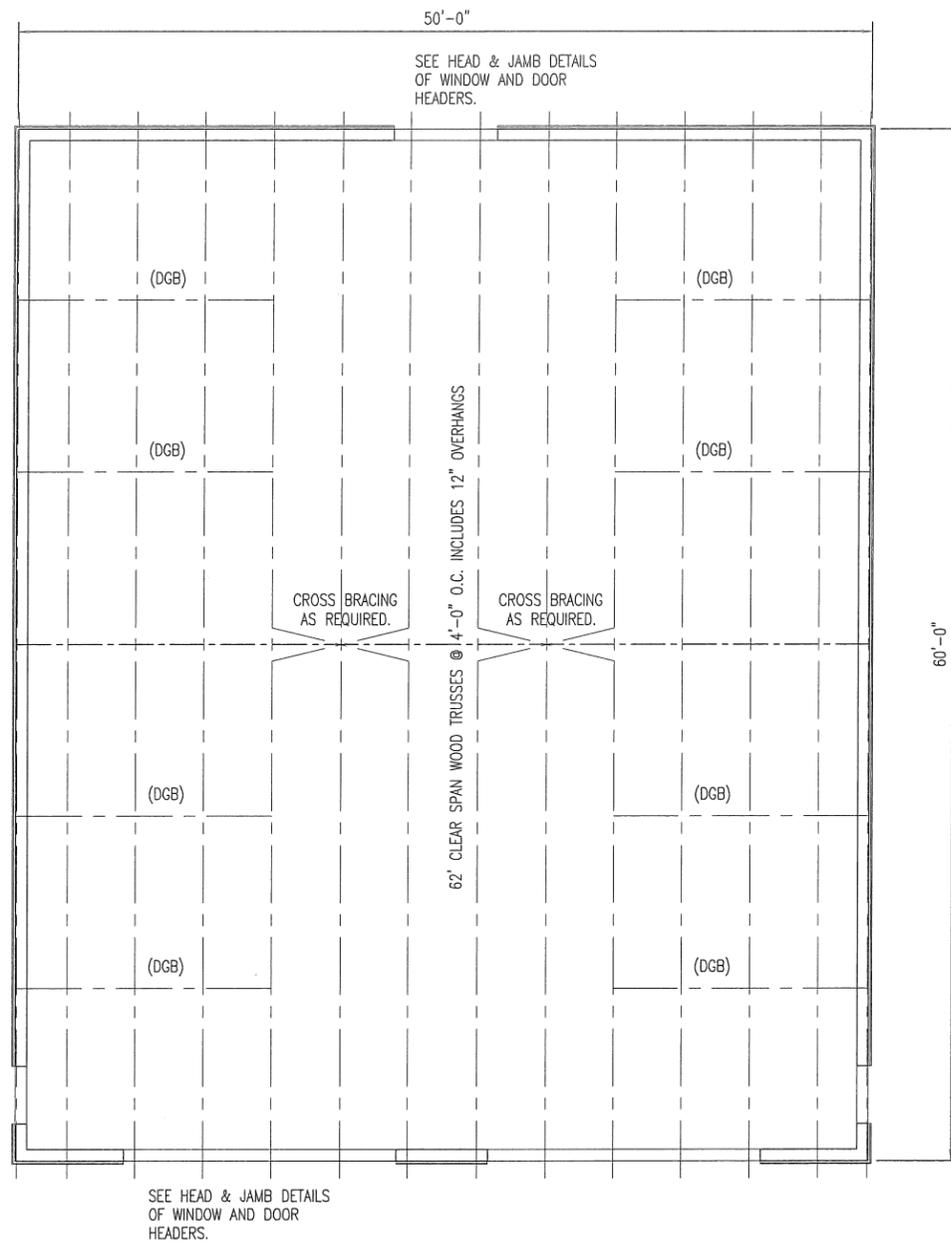


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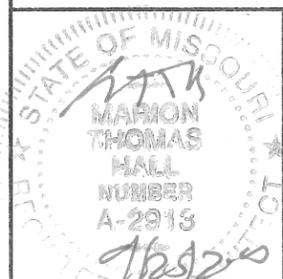


### ROOF FRAMING NOTES

- DESIGN LOADING FOR ROOF TRUSSES SHALL MEET THE FOLLOWING CRITERIA:
 

ROOF LIVE LOAD	25 PSF
ROOF DEAD LOAD	4 PSF
BOTTOM CORD DEAD LOAD	5 PSF
EARTHQUAKE	ZONE 1, LATEST EDITION IBC
WIND	90 MPH, EXPOSURE B
DEFLECTION	L/360
SPACING	48" O.C. MAXIMUM
- TRUSS DESIGN SUBMITTALS SHALL BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MISSOURI.
- ROOF TRUSSES AND RAFTERS SHALL BE ANCHORED TO THE TOP PLATE OF LOAD BEARING WALLS WITH SEISMIC AND HURRICANE ANCHORS EQUAL TO SIMPSON STRONG-TIE LUS24Z ANCHORS.

**A** ROOF FRAMING PLAN  
 14 SCALE: 3/32" = 1'-0"



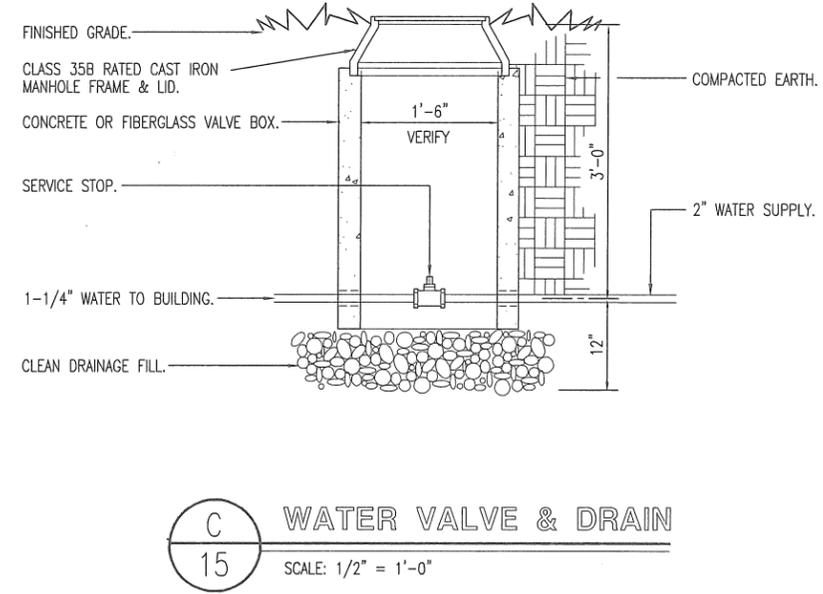
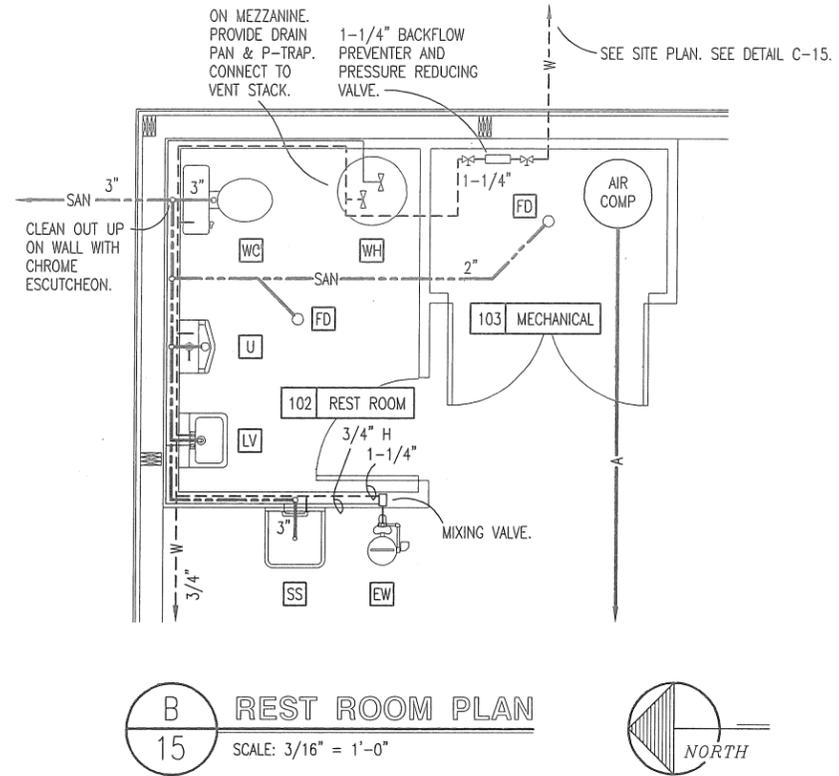
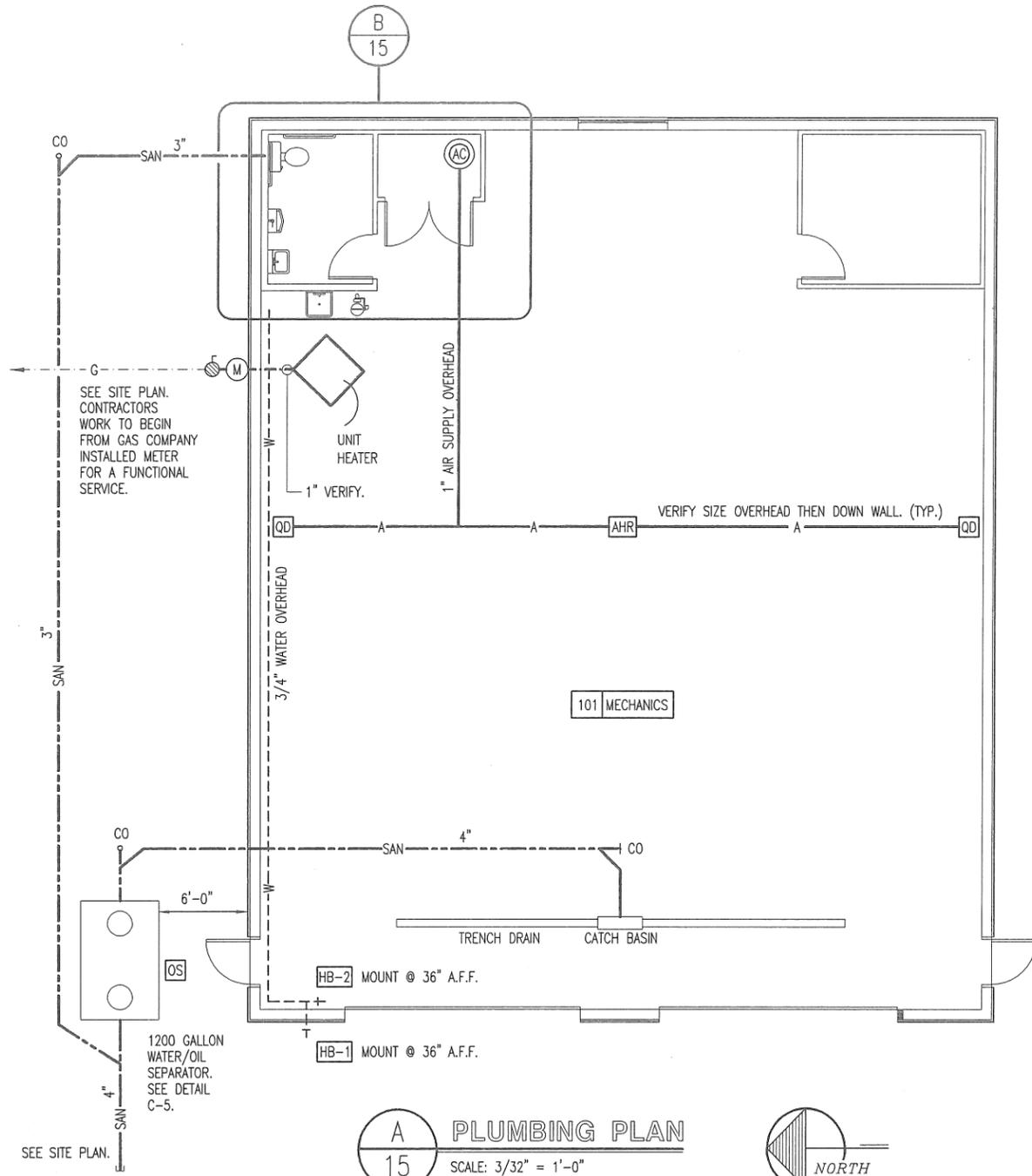
# ROOF FRAMING PLAN

MISSOURI DEPARTMENT  
 OF TRANSPORTATION  
 DIVISION OF GENERAL SERVICES  
 FACILITIES MANAGEMENT

Kirksville Mechanics Building  
 Northeast District - Adair County  
 22777 Potter Trail, Kirksville, MO 63501

DESIGN BY: LARRY CARVER  
 DATE: 8-14-15

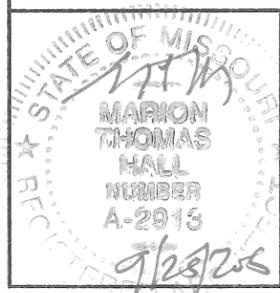
Sheet  
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SEE SHEET 17 FOR PLUMBING SCHEDULE & NOTES.

**LEGEND**

HOT WATER	---	H
WATER	----	W
SANITARY SEWER	-----	SAN
COMPRESSED AIR	=====	A
GAS	-----	G
CLEANOUT	----	C.O.
GAS VALVE	⊙	

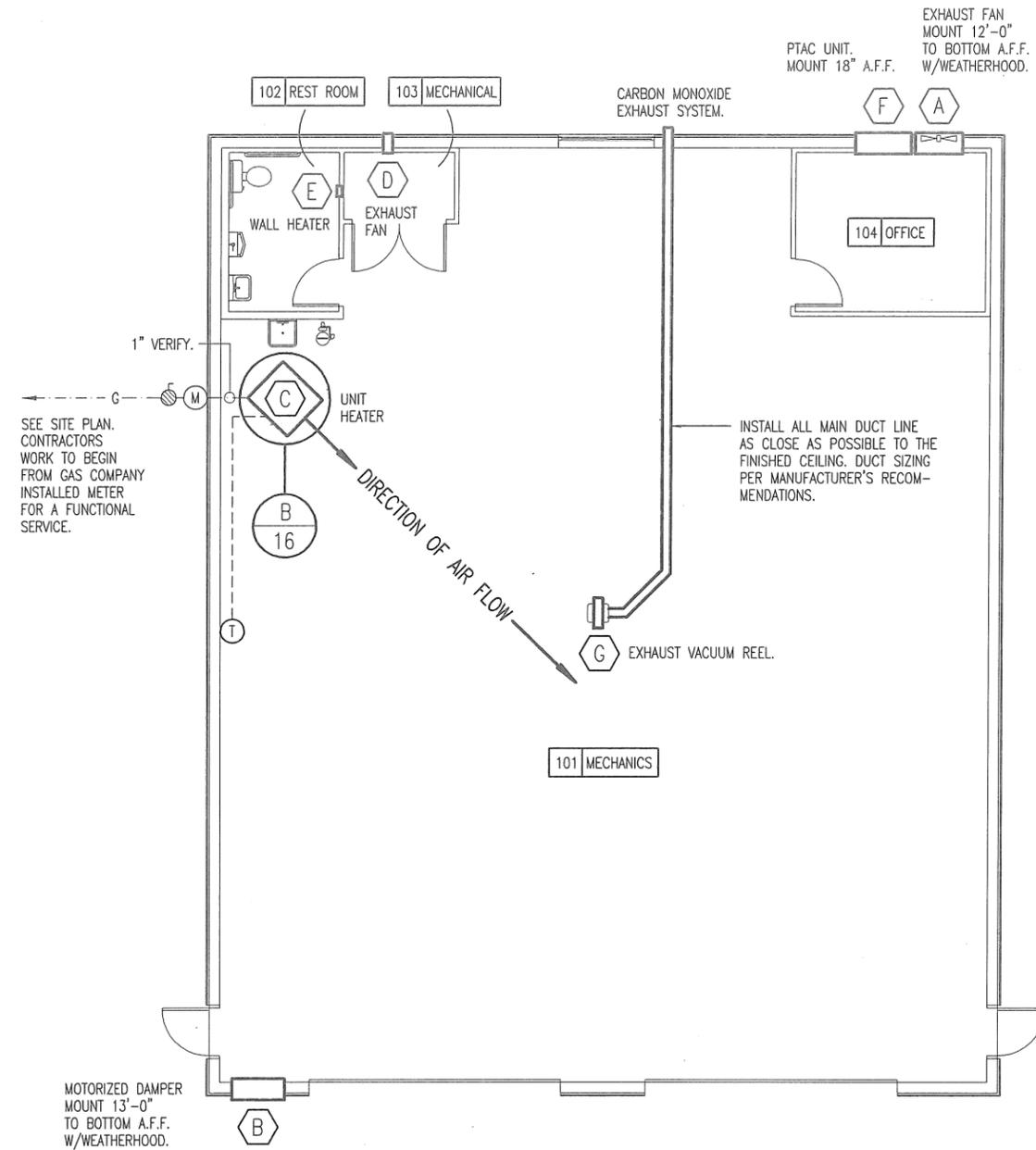


# PLUMBING PLAN

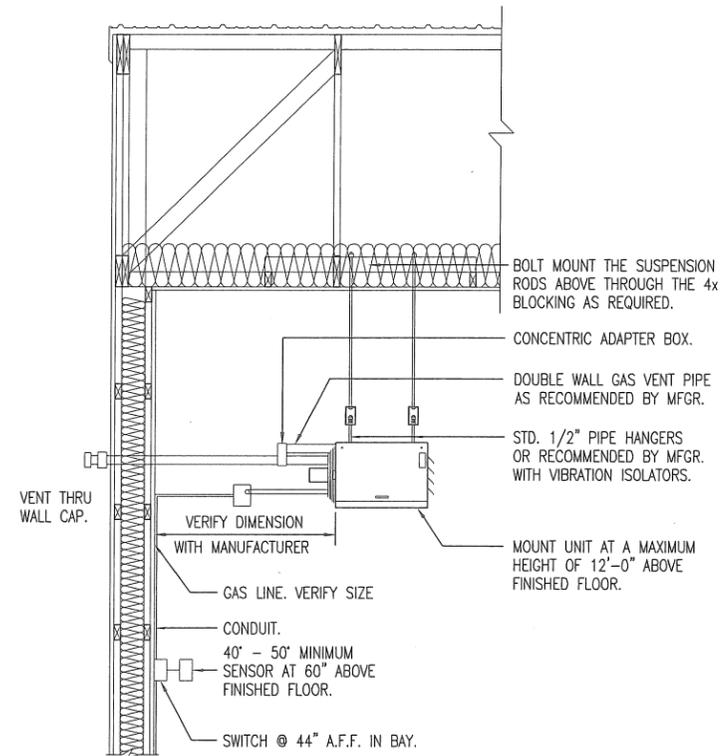
MISSOURI DEPARTMENT OF TRANSPORTATION  
DIVISION OF GENERAL SERVICES  
FACILITIES MANAGEMENT

Kirkville Mechanics Building  
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22777 Potter Trail, Kirkville, MO 63501

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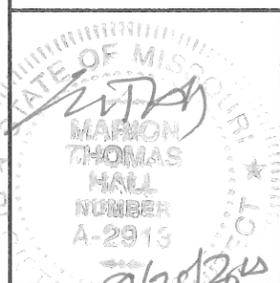
**A** MECHANICAL PLAN  
16 SCALE: 3/32" = 1'-0"



**B** UNIT HEATER INSTALLATION  
16 NOT TO SCALE

SEE SHEET 171 FOR THE MECHANICAL NOTES.

SEE SHEET 8 FOR HVAC FIXTURE SCHEDULE.



# MECHANICAL PLAN

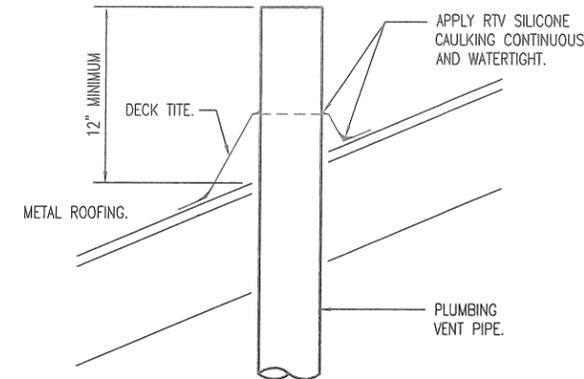
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PLUMBING SCHEDULE						
SYM.	FIXTURE	PIPE CONNECTION				REMARKS
		CW	HW	S&W	VENT	
WC	WATER CLOSET	1/2"		3"	2"	EQUAL TO AMERICAN STANDARD #2377.100 FLOOR MOUNT. PRESSURE ASSISTED, ELONGATED WATER-SAVER "CADET" WATER CLOSET. 16-1/2" HIGH 3109.016 BOWL, 4098.100 TANK. INCLUDE OPEN FRONT SEAT WITH LID. (WHITE)
U	URINAL	3/4"		1-1/2"	1-1/2"	EQUAL TO AMERICAN STANDARD #6601.021 "LYNBROOK" 1.0 GALLON URINAL WITH SLOAN ROYAL 180-1 FLUSH VALVE.
LV	LAVATORY	1/2"	1/2"	2"	2"	EQUAL TO AMERICAN STANDARD #4867.024, 20" x 18" ENAMELED, CAST IRON "REGALYN" WALL MOUNT LAVATORY WITH 4" CENTERSET SYMMONS SYMMETRIX S-20-2-BH SINGLE LEVER LAVATORY FAUCET. INCLUDE AN ADA APPROVED INSULATION KIT.
SS	SERVICE SINK	1/2"	1/2"	3"	2"	EQUAL TO AMERICAN STANDARD #7692.049, 22" x 18" ENAMELED, CAST IRON "LAKEWELL" SERVICE SINK W/ 8340.242 HERITAGE LEVEL HANDLE FAUCET, AND 7798.176 P-TRAP.
EW	EMERGENCY EYE WASH	1-1/4"	3/4"			EQUAL TO BRADLEY "MODEL S19-310" DRENCH SHOWER/EYE WASH UNIT SAFETY YELLOW. S19-2100 THERMOSTATIC MIXING VALVE.
WH	WATER HEATER	3/4"	3/4"			A.O. SMITH MODEL NUMBER EES-30 (2) 4500 WATT, 240 VOLT ELEMENTS, 30 GALLON ELECTRIC WITH PRESSURE RELIEF VALVE OR EQUAL. MOUNT ON MEZZANINE WITH DRAIN PAN.
HB-1	HOSE BIBB	3/4"				EXTERIOR - EQUAL TO WOODFORD MODEL 67P-12 FREEZELESS WALL HYDRANT WITH 3/4" H.P.T. OUTLET, INTEGRAL VACUUM BREAKER-BACK FLOW PREVENTER.
HB-2	HOSE BIBB	3/4"				INTERIOR - EQUAL TO WOODFORD MODEL 26 WALL FAUCET WITH 3/4" H.P.T. OUTLET, INTEGRAL VACUUM BREAKER-BACKFLOW PREVENTER.
FD	FLOOR DRAIN			2"		PVC FLOOR DRAIN WITH P-TRAP, 6-1/2" DIA. NICKLE-BRONZE STRAINER, 2" FIP THREADED THROAT-BALL BACKWATER DEVICE. 1-1/2" PRE-INSTALLED FIP CLEAN-OUT THREADS.
TD	TRENCH DRAIN			4"		EQUAL TO ZURN Z886 CHANNEL SLOPE TRENCH DRAIN SYSTEM WITH LOCK DOWN CAST IRON GRATE "CLASS C".
CB	CATCH BASIN			4"		EQUAL TO ZURN Z887-6x20 CATCH BASIN, WITH STAINLESS STEEL TRASH BUCKET AND LOCK DOWN CAST IRON GRATE "CLASS C".
OS	OIL SEPARATOR			4"		EQUAL TO CHAMPION PRECAST INC. 1,200 GALLON OIL & GREASE INTERCEPTOR STOCK STANDARD NO. 140-002180. HEAVY DUTY PRECAST CONCRETE. PH: (573)384-5855.
CO	CLEAN OUT					BRASS WITH ADAPTER AND CAP EQUAL TO PIPE SIZE SHOWN.
AC	AIR COMPRESSOR					EQUAL TO INGERSOLL-RAND MODEL #2340, 28A, 5 HP, 60 GALLON VERTICAL, 2-STAGE. PROVIDE RUBBERIZED WASHERS AT EACH FLOOR MOUNT TO ACT AS A SHOCK ABSORBER. SIZE MOUNT AS REQUIRED. PROVIDE LINE FILTERS AS REQUIRED. 30A BREAKER.
AHR	AIR HOSE REEL					EQUAL TO REELCRAFT 7850 OLP 57 300 LOW PRESSURE HEAVY DUTY ALL STEEL CONSTRUCTION WITH ONE PIECE WRAP AROUND GUIDE ARM.
QD	QUICK DISCONNECT					VERIFY SIZE WITH MODOT MECHANIC. MOUNT AT 48" A.F.F. ATTACH RIGIDLY TO GIRTS.



**VENT THROUGH ROOF DETAIL**

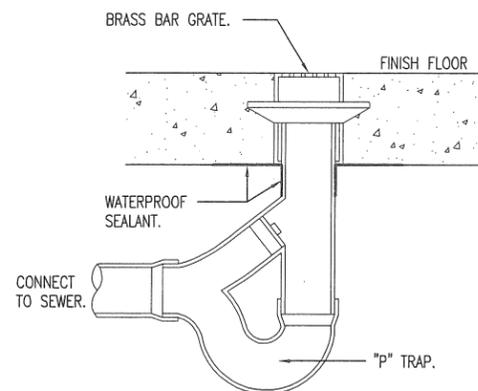
SCALE: NONE

**MECHANICAL NOTES**

1. DRAWINGS AND DIAGRAMS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
2. MECHANICAL WORK SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE LATEST EDITION OF THE IBC MECHANICAL CODE.
3. PROVIDE EQUIPMENT AND APPURTENANCES NOT NECESSARILY SHOWN OR SPECIFIED BUT NEEDED FOR COMPLETE AND PROPER INSTALLATION.
4. ALL EQUIPMENT AND MATERIALS, IN PARTICULAR VALVES, FILTERS, MOTORS, AND CONTROLS SHALL BE ARRANGED TO PROVIDE PROPER CLEARANCE FOR SERVICE, MAINTENANCE AND INSPECTION.
5. MECHANICAL SUBCONTRACTOR SHALL FULLY COORDINATE ALL WORK WITH PLUMBING AND ELECTRICAL WORKERS PRIOR TO COMMENCING OF THE MECHANICAL INSTALLATION.
6. PROVIDE BLOCKING TO HVAC DEVICES AS REQUIRED FOR A SECURE APPLICATION.

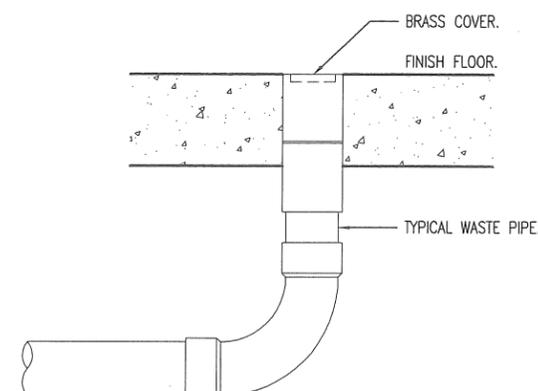
**PLUMBING NOTES**

1. DRAWINGS AND DIAGRAMS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
2. PLUMBING SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE LATEST EDITION OF THE INTERNATIONAL PLUMBING CODE.
3. PLUMBING SHALL BE LOCATED AND PLACED UNDER THE SLAB PRIOR TO POURING OF CONCRETE. PIPING SHALL BE RUN IN SAND FILLED TRENCH UNDER THE BASE ROCK AND SLEEVED WITH PVC WHENEVER RUN THROUGH CONCRETE.
4. PROVIDE PLUMBING EQUIPMENT AND ACCESSORIES REQUIRED FOR COMPLETE AND OPERATIONAL PLUMBING SYSTEMS AS REQUIRED BY MANUFACTURER'S INSTRUCTIONS AND DIRECTIONS FOR SYSTEMS SPECIFIED.
5. PLUMBING VENTS ARE NOT SHOWN ON THE PLANS. ALL FIXTURES SHALL BE PROPERLY VENTED AS PER IBC PLUMBING CODE. VENT AS CLOSE AS POSSIBLE TO EXTERIOR WALLS.
6. ROOF VENTS SHALL BE COMBINED WHEREVER IN COMPLIANCE WITH THE NATIONAL PLUMBING CODE TO MINIMIZE ROOF PENETRATIONS.
7. PROVIDE SHUT OFF VALVES AT EACH FIXTURE.
8. PROVIDE SHOCK ABSORBERS AS REQUIRED AT EACH FAUCET.
9. SEE MECHANICAL PLAN FOR GAS PIPING AND MECHANICAL REQUIREMENTS.
10. CONTRACTOR TO PROVIDE CAST IRON VENT PIPING IN PLENUM AS REQUIRED BY CODE. SECURE AS REQUIRED.



**FLOOR DRAIN DETAIL**

SCALE: NONE



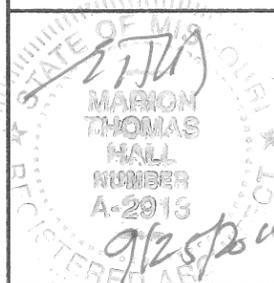
**FLOOR CLEANOUT DETAIL**

SCALE: NONE

A  
17

**PLUMBING & MECHANICAL NOTES**

SCALE: NONE



**Plumbing & Mechanical Notes**

MISSOURI DEPARTMENT OF TRANSPORTATION  
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DESIGN BY: LARRY CARVER  
DATE: 9-16-15

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### ELECTRIC SCHEDULE

MANUF.	MODEL	#	LAMPS TYPE	W	MNT	REMARKS
WILLIAMS B	50G-S24-LED*UT 50/835- RPC12125-EM/BSL310- ED*UT-UNV		LED	51	CLG	24" x 48" STATIC TROFFER FIXTURE, HOUSING: 22 GAUGE DIE FORMED C.R.S. SHIELDING.
WILLIAMS D	50G-S22-LED*UT30/85- RPC12125-EM/BSL310- ED*UT-UNV		LED	25	CLG	24" x 24" STATIC TROFFER FIXTURE, HOUSING: 22 GAUGE DIE FORMED C.R.S. SHIELDING: FROSTED PATTERN #12 & EMERGENCY DRIVER.
BROAN E	GRAINGER #4C772				CLG	80 CFM CEILING MOUNT BATHROOM VENTILATOR.
WILLIAMS G	GL-4-L200/840-WG11- DRV-UNV		LED	174	CLG	14-3/16" x 48" DIE-FORMED ALUMINUM HOUSING WITH WIRE GUARD.
WILLIAMS H	GL-4-L200/840-EM/ BSL310-WG11-DRV-UNV		LED	174	CLG	14-3/16" x 48" DIE-FORMED ALUMINUM HOUSING WITH WIRE GUARD. BACK MOUNTED EMERGENCY LED DRIVER.
LITHONIA L	TWR1LED 1 40K MVOLT		LED	33	WALL	EXTERIOR, SURFACE MOUNT LIGHT FIXTURE, WITH ALUMINUM HOUSING. PRISMATIC GLASS LENS.
DAYTON M	GRAINGER #5NP23				CLG	SINGLE-SPEED, 48" THREE-BLADE, HEAVY DUTY COMMERCIAL CEILING FAN.
N	OVERHEAD DOOR OPERATOR				WALL	115V, 1-PH, TROLLEY TYPE. SEE SPECIFICATION SECTION 08720.
LITHONIA O	LHQM P W3 R N		LED	11	WALL	QUANTUM THERMOPLASTIC EXIT/UNIT COMBO (2) LED 5.4 KRYPTON LAMPS.
TORK P	2001				WALL	120V PHOTO ELECTRIC CONTROL OF EXTERIOR LIGHTS.
S	OVERHEAD DOOR CONTROL				WALL	THREE BUTTON OVERHEAD DOOR CONTROL AS SUPPLIED BY OVERHEAD DOOR MANUF. SEE SPECIFICATION SECTION 08720.
REELCRAFT T	L 4050 163 1				CLG	CEILING MOUNTED SPRING RETRACTABLE, ELECT. CORD REEL WITH INCANDESCENT LAMP & THREE PRONG OUTLET PLUG.
CREE FP	LS4-40L-40K-10V-120		LED	40	WALL	2-5/8" x 48" SURFACE AMBIENT, 22 GAUGE, LOW-GLARE ACRYLIC LENS, WHITE.

ELECTRICAL FIXTURES AND EQUIPMENT ARE SCHEDULED BY MANUFACTURER AND MODEL NUMBER  
FOR DESIGN INTENT ONLY, APPROVED EQUALS MAY BE SUBSTITUTED.

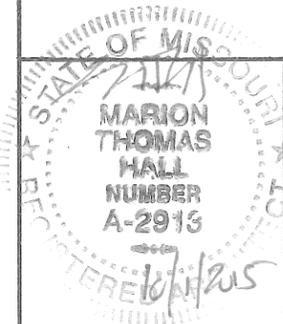
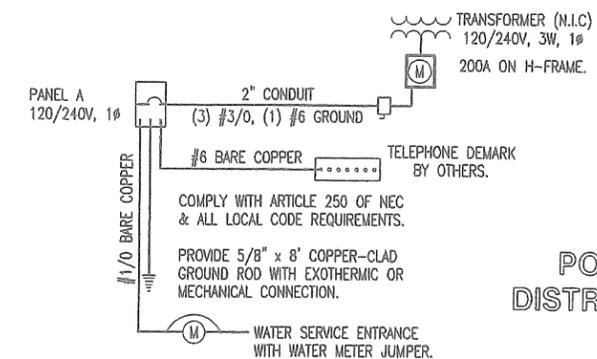
### SERVICE PANEL LPA

MAIN BUS: 225A MLO VOLTS: 240/120, 1PH, 3-WIRE BUS MATERIAL: COPPER MOUNTING: SURFACE		SQUARE "D" NOOD OR EQUAL W/ NEUTRAL BUS & GROUNDING BUS CIRCUIT BREAKERS BOLT-IN 10000 AIC				CONNECTED LOAD A PHASE 21486 VA B PHASE 19613 VA TOTAL 41099 VA 171 A		
CIR	SERVICE	VA	BKR		BKR	VA	SERVICE	CIR
1	101 LIGHTS	1751	20A1P	A	20A1P	132	EXTERIOR LIGHTING	2
3	CEILING FANS	156	20A1P	B	20A1P	504	WALL HEATER - 102 RR	4
5	UNIT HEATER	456	20A1P	A	30A1P	2162	GARAGE DOOR OPENERS	6
7	EXHAUST FAN & LOUVER	813	20A1P	B	20A1P	540	CORD REEL	8
9	RECEPTACLES - 101	540	20A1P	A	20A1P	720	RECEPTACLES - 101	10
11	RECEPTACLES - 101	540	20A1P	B	20A1P	576	EXHAUST FAN 103 MECH.	12
13	GFI RECEPTACLE - 102 RR	180	20A1P	A	20A1P	125	LIGHTS & FAN 102 & 103	14
15	OFFICE LIGHT	51	20A1P	B	20A1P	360	DEDICATED RECEPTACLES 104	16
17	RECEPTACLES - 104 OFFICE	720	20A1P	A	20A1P	180	MEZZANINE WI-FI	18
19	CARBON MONOXIDE	1553	20A1P	B				20
21				A				22
23				B				24
25				A				26
27				B				28
29				A				30
31				B				32
33				A				34
35	WELDER	4500	50A2P	B	30A2P	2600	WATER HEATER	36
37		4500		A		2600		38
39	AIR COMPRESSOR	3360	30A2P	B	30A2P	4060	PTAC UNIT	40
41		3360		A		4060		42

● CIRCUIT BREAKER SHALL BE GFI RATED

### ELECTRICAL NOTES

- DRAWINGS AND DIAGRAMS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
- ELECTRICAL WORK SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE (N.E.C.).
- PROVIDE ELECTRICAL EQUIPMENT AND ACCESSORIES REQUIRED FOR A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM AS REQUIRED BY MANUFACTURER'S INSTRUCTIONS AND DIRECTIONS FOR SYSTEMS SPECIFIED.
- SWITCHES AND RECEPTACLES SHALL BE EQUAL TO THE AMPERE RATING SHOWN IN THE PANEL SCHEDULE. RECEPTACLES SHALL BE GROUND-FAULT INTERRUPTION TYPE WHERE SHOWN OR AS REQUIRED BY CODE.
- BATHROOM EXHAUST FAN IS TO BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
- SEE HVAC SCHEDULE FOR EQUIPMENT TO BE HARD WIRED, PROVIDE SERVICE DISCONNECT AT EACH.
- ALL RECEPTACLES IN GARAGE AREA TO BE MOUNTED AT 48" A.F.F.
- COORDINATE WORK WITH OTHER TRADES PRIOR TO COMMENCING WITH ELECTRICAL WORK.
- CONDUCTOR AND BREAKER SIZE MAY VARY PER MANUFACTURER ON THE EQUIPMENT SPECIFIED. ELECTRICAL CONTRACTOR TO VERIFY SIZES WITH EXACT EQUIPMENT ORDERED PRIOR TO PURCHASING ELECTRICAL SUPPLIES.
- FIXTURE LOCATIONS ARE APPROXIMATE, EXACT LOCATIONS TO BE DETERMINED AFTER COLLABORATION WITH THE OWNER AND OTHER TRADES.
- PROVIDE BLOCKING FOR ELECTRICAL DEVICES AS REQUIRED FOR A SECURE APPLICATION.
- CONTRACTOR SHALL INSTALL 3/4" EMT CONDUIT FROM DATA OUTLET TO 2" ABOVE ACOUSTICAL CEILING TILE. TELE/DATA CABLING BY MODOT.



## ELECTRICAL PANEL

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