

MISSOURI DEPARTMENT
OF TRANSPORTATION

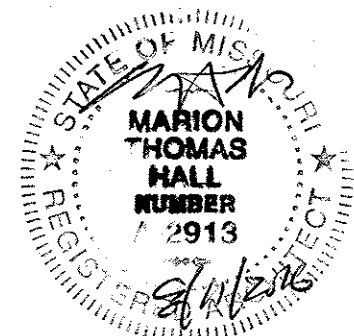
INDEX OF DRAWINGS

- 1 -20 COVER SHEET
- 2 -20 SITE PLAN
- 3 -20 NOT USED
- 4 -20 FOUNDATION PLAN
- 5 -20 FOUNDATION DETAILS
- 6 -20 FOUNDATION DETAILS
- 7 -20 FLOOR PLAN
- 8 -20 INTERIOR ELEVATIONS
- 9 -20 MEZZANINE PLAN
- 10 -20 BUILDING SECTION
- 11 -20 WALL SECTIONS
- 12 -20 ELEVATIONS
- 13 -20 HEAD & JAMB DETAILS
- 14 -20 SCHEDULES
- 15 -20 PLUMBING PLAN
- 16 -20 REST ROOM PLUMBING PLANS
- 17 -20 MECHANICAL PLANS
- 18 -20 LIGHTING PLANS
- 19 -20 POWER PLANS
- 20 -20 ELECTRICAL PANELS & SCHEDULES

Linn Maintenance Building
Central District
143 Commercial Drive, Linn, MO 65051
Osage County

CODE REQUIREMENTS

- BUILDING CODE - CURRENT IBC
- PLUMBING CODE - CURRENT IBC
- MECHANICAL CODE - CURRENT IBC
- ELECTRICAL CODE - CURRENT N.E.C.



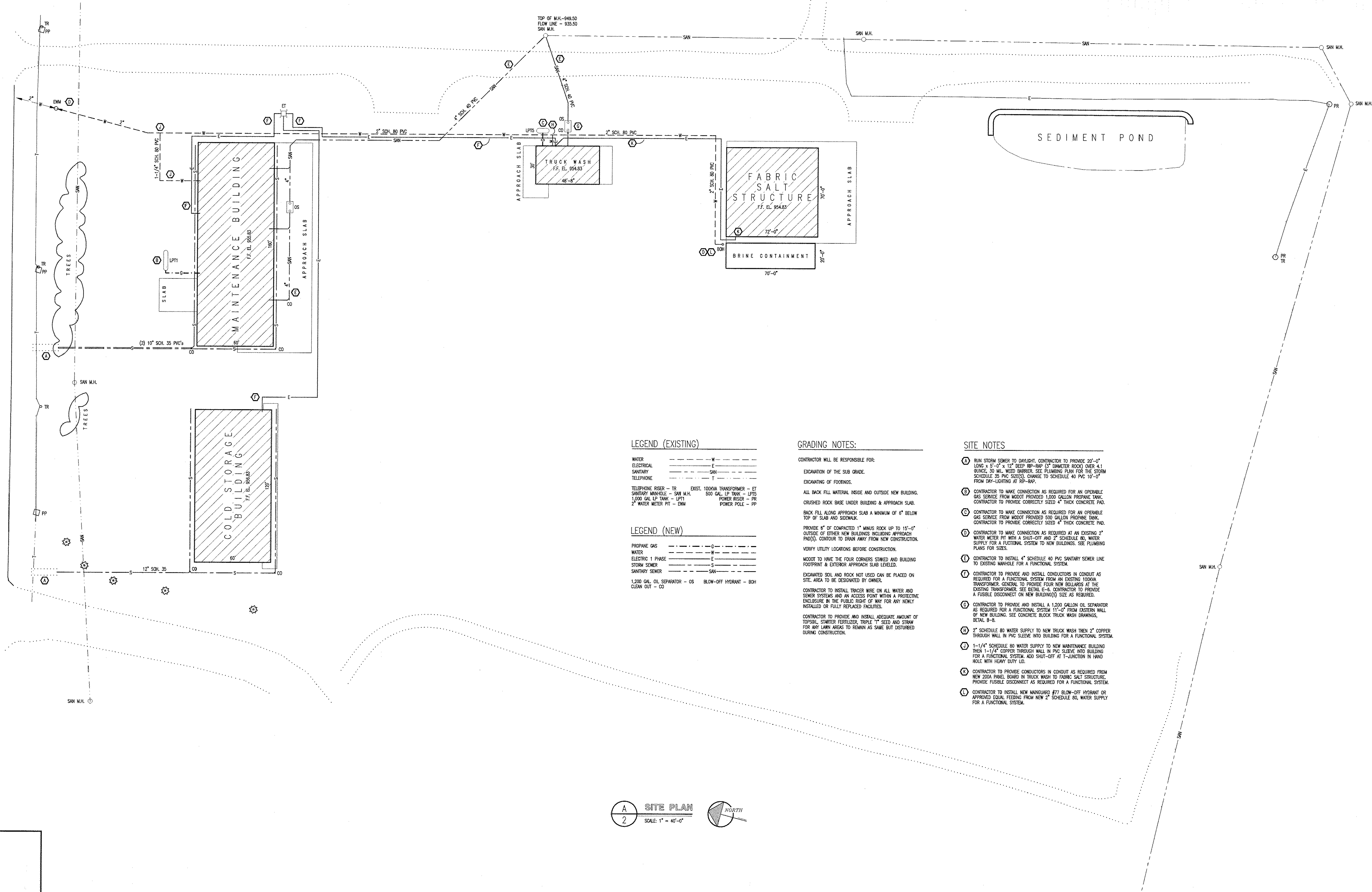
COVER SHEET

MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

Linn Maintenance Building
Central District - Osage County
143 Commercial Drive, Linn, MO 65051

DESIGN BY: LARRY CARVER
DATE: 8-11-16
Sheet
1 OF 20

ROUTE 50

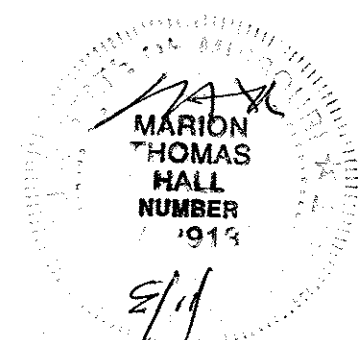


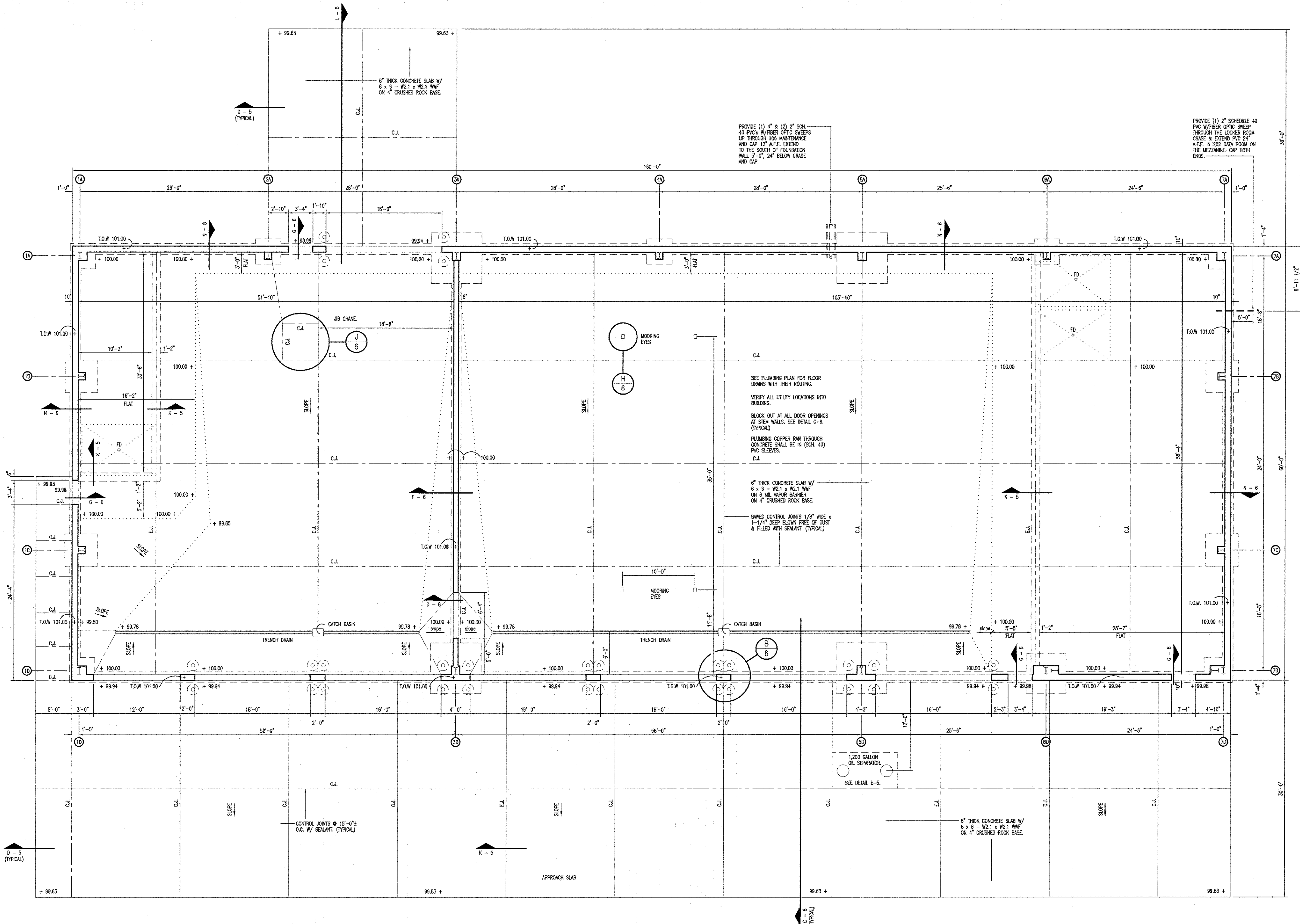
A SITE PLAN
2 SCALE: 1" = 40'-0"

MISSOURI DEPARTMENT
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FACILITIES MANAGEMENT

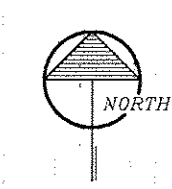
Linn Maintenance Building
Central District - Osage County
143 Commercial Drive, Linn, MO 65051

DESIGN BY: LARRY CARVER
DATE: 8-11-16
Sheet
2 OF 20





FOUNDATION PLAN
SCALE: 1/8" = 1'-0"



SEE SHEET 5 & 6 FOR COLUMN
LINE FOOTING PLAN DETAILS.

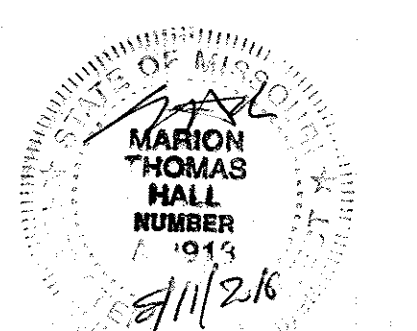
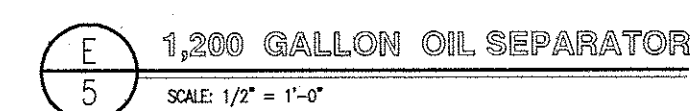
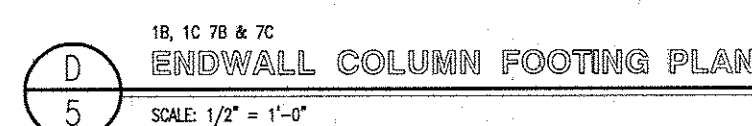
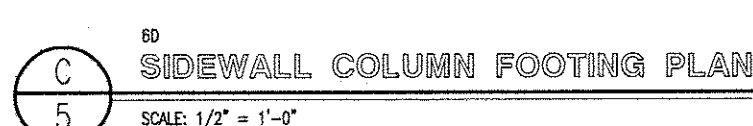
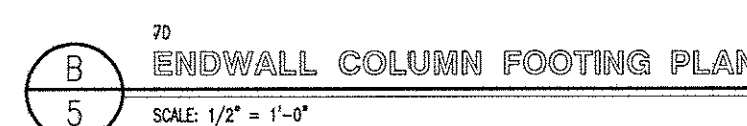
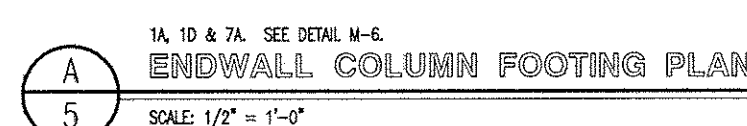
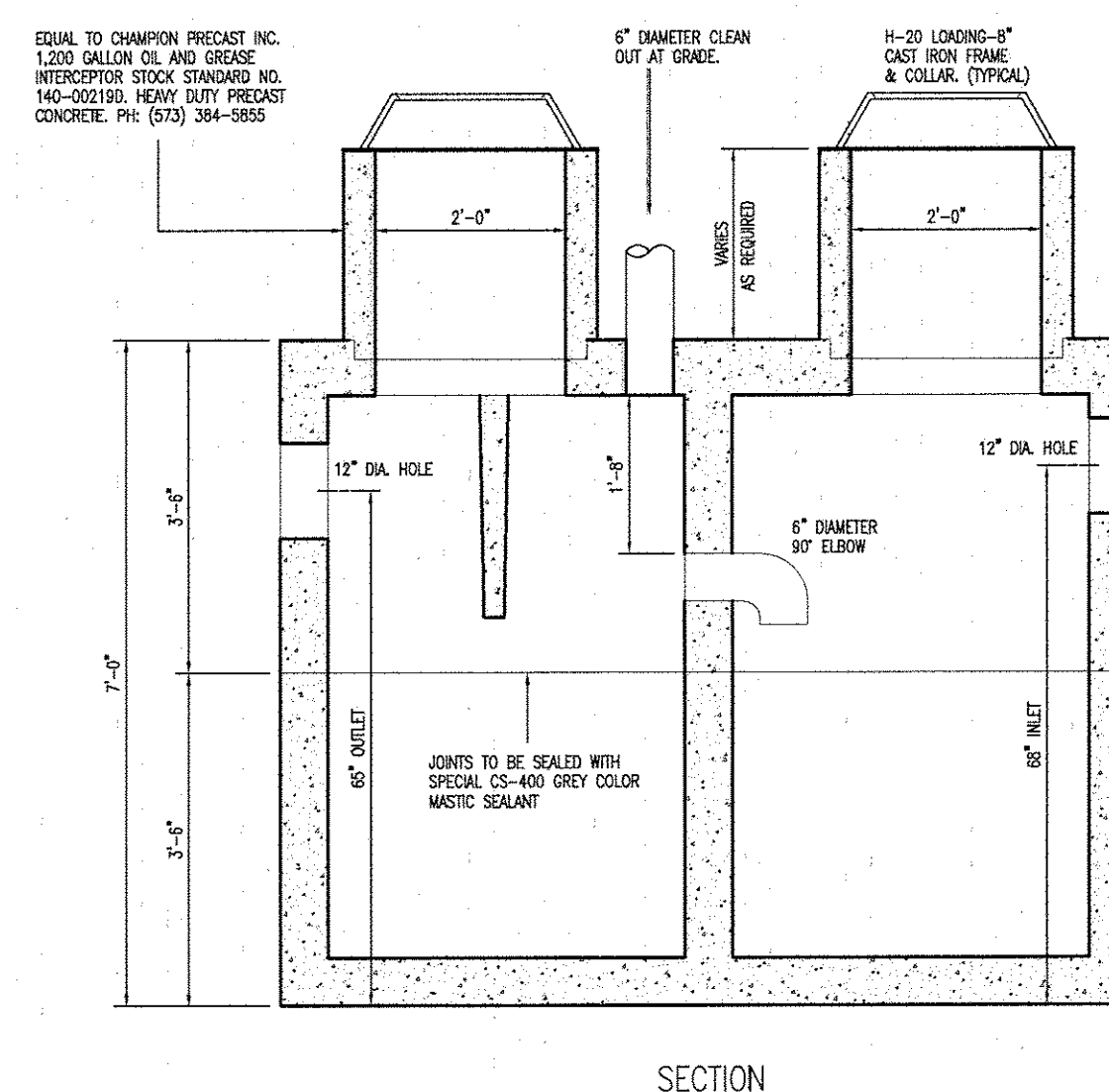
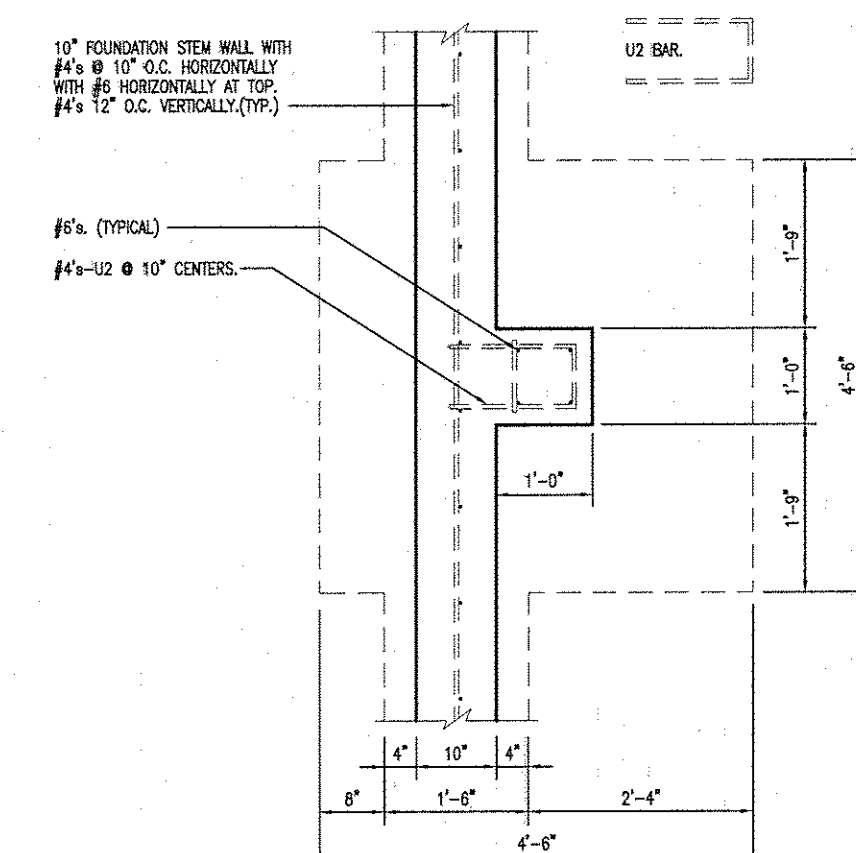
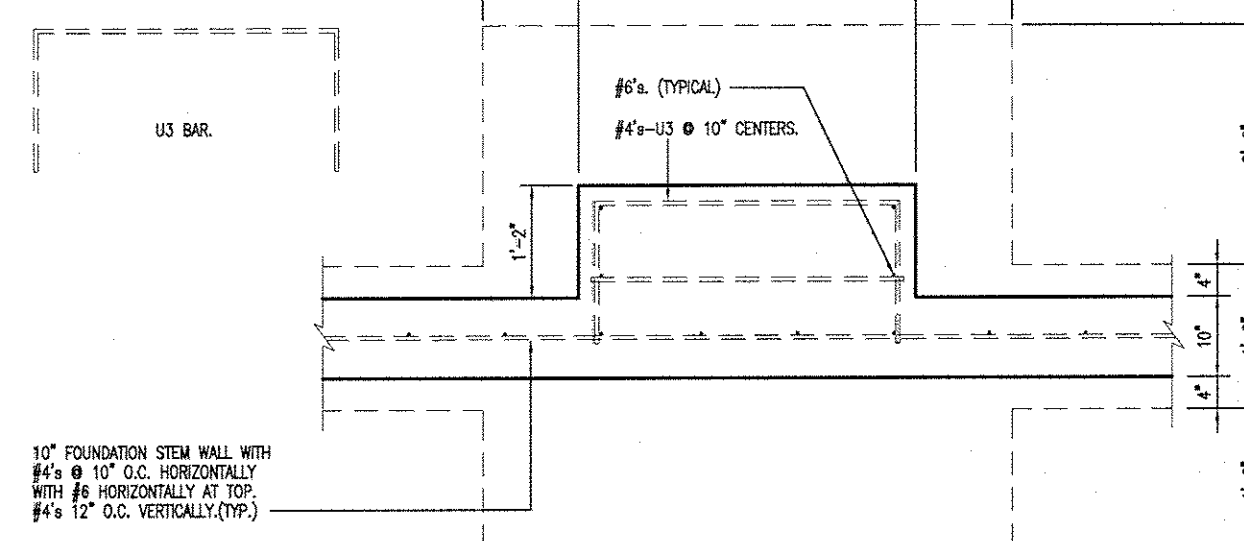
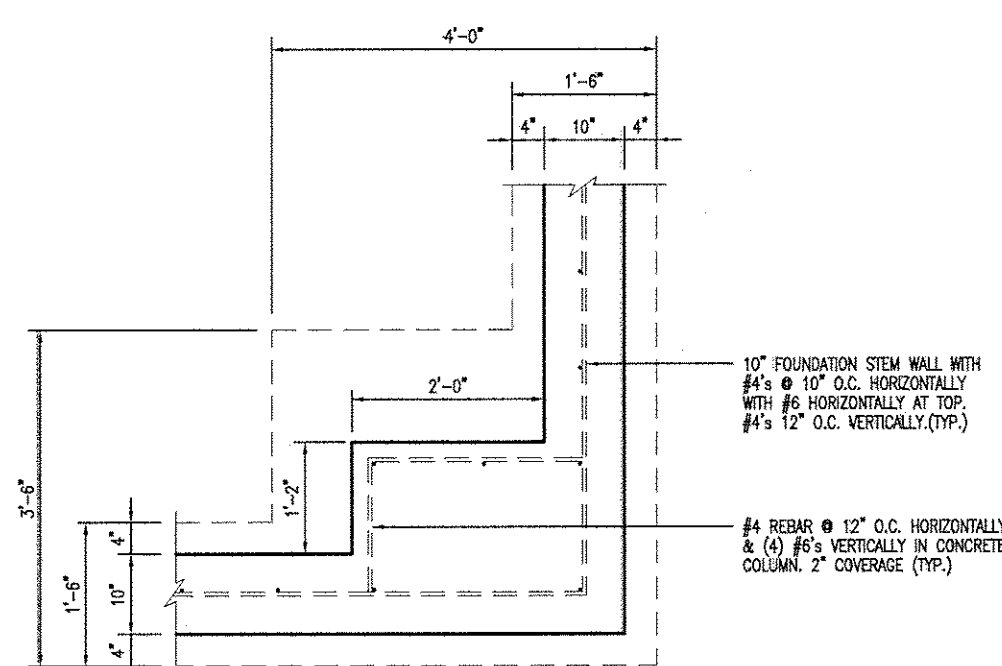
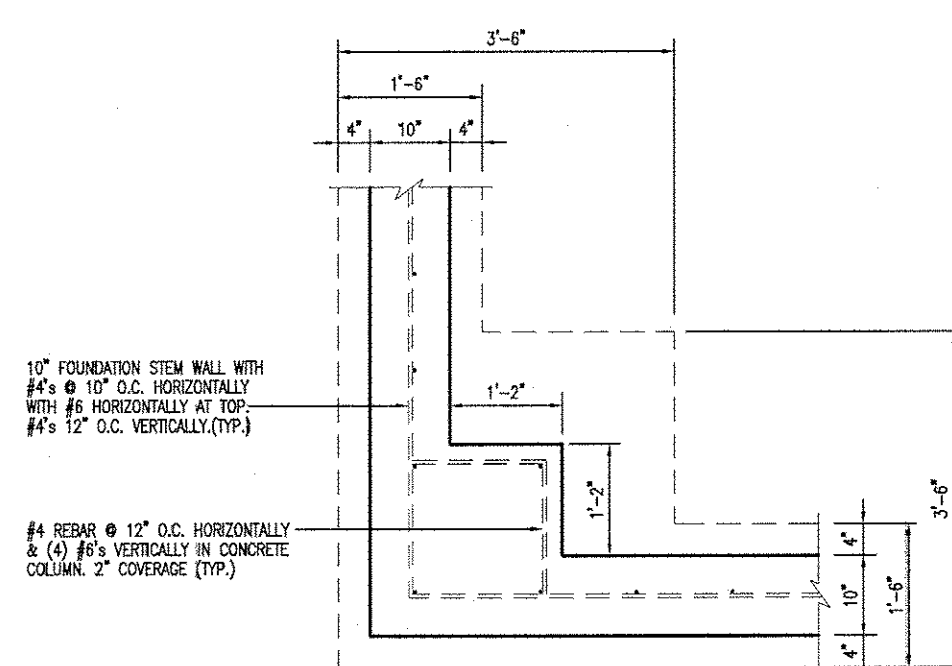
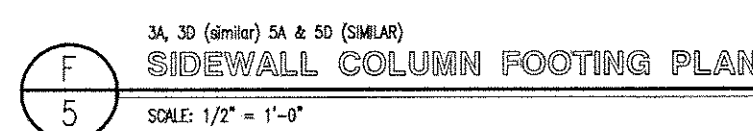
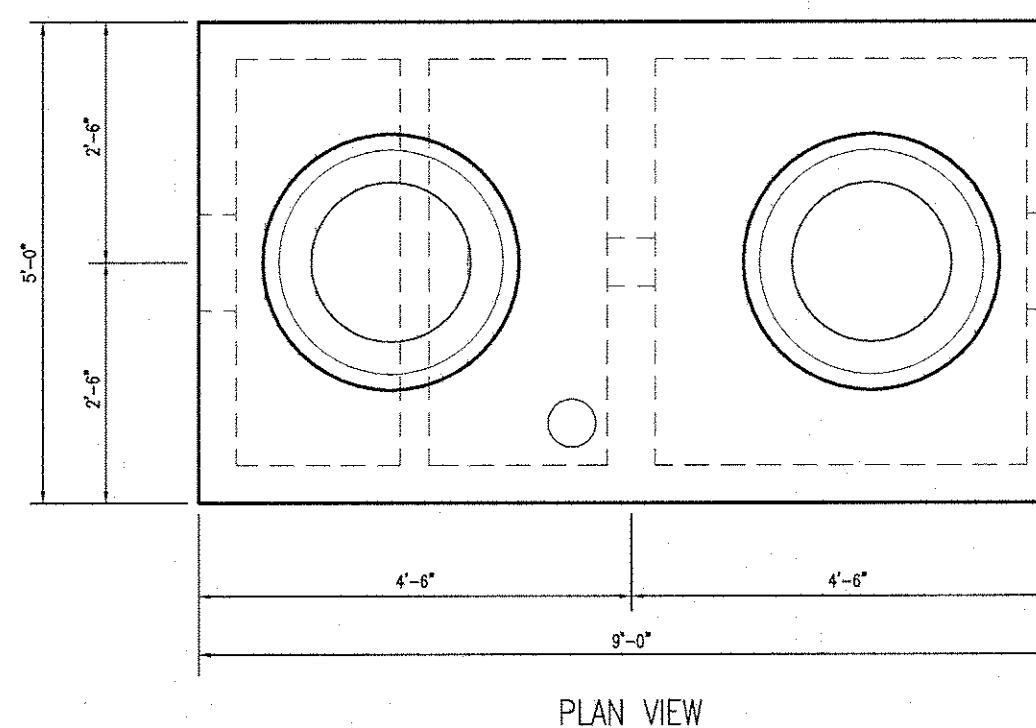
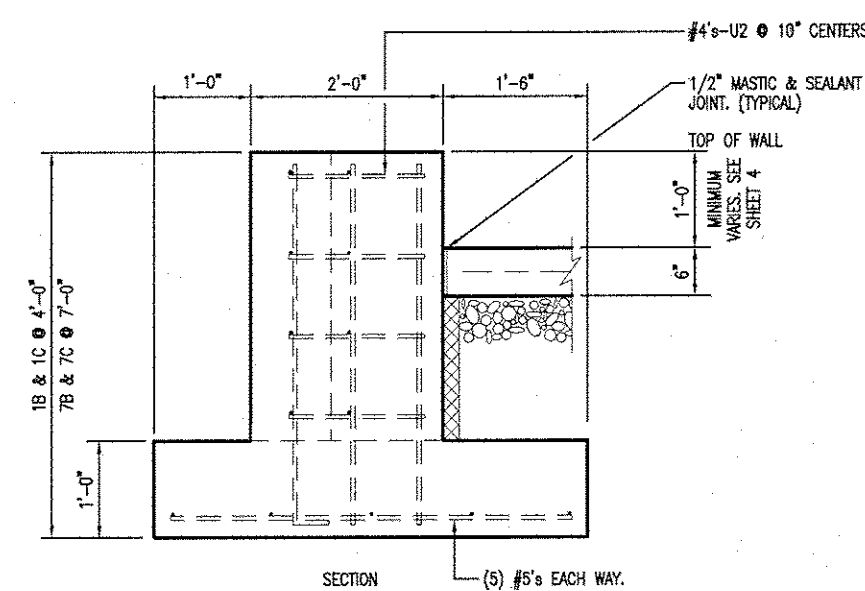
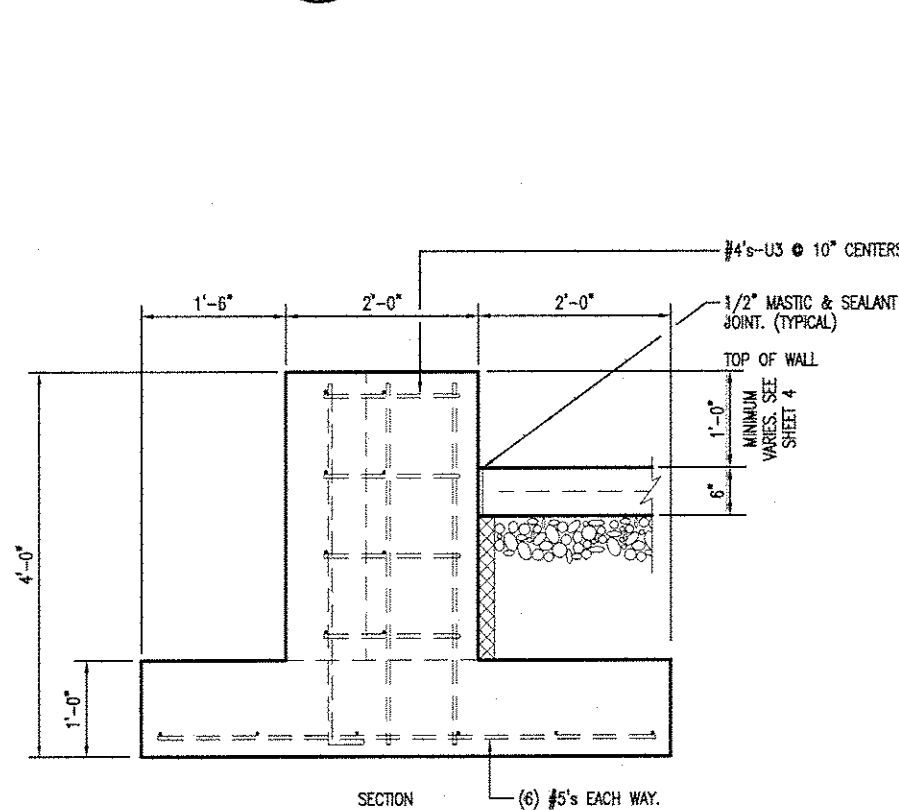
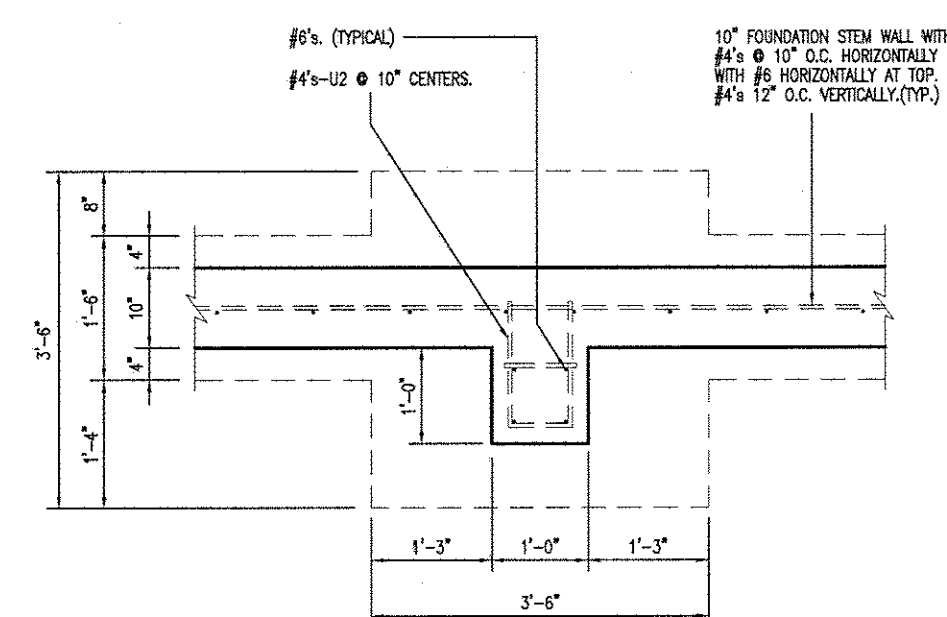
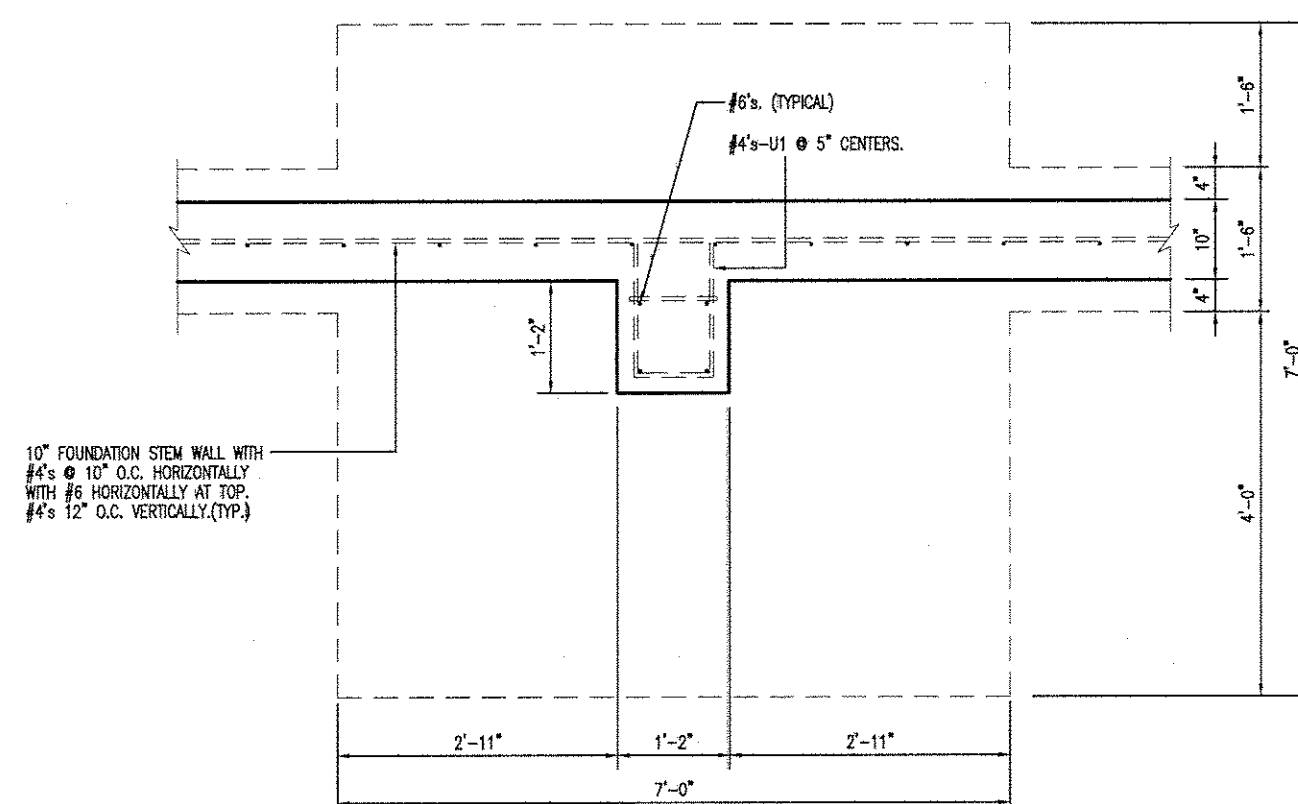
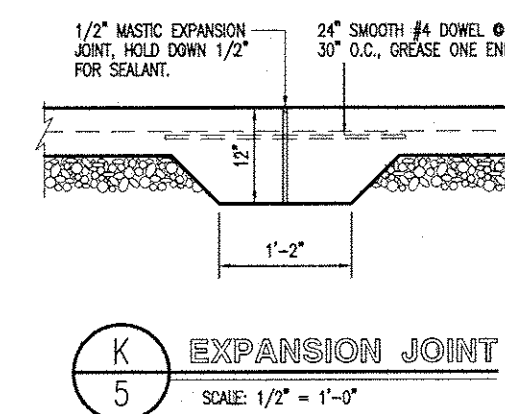
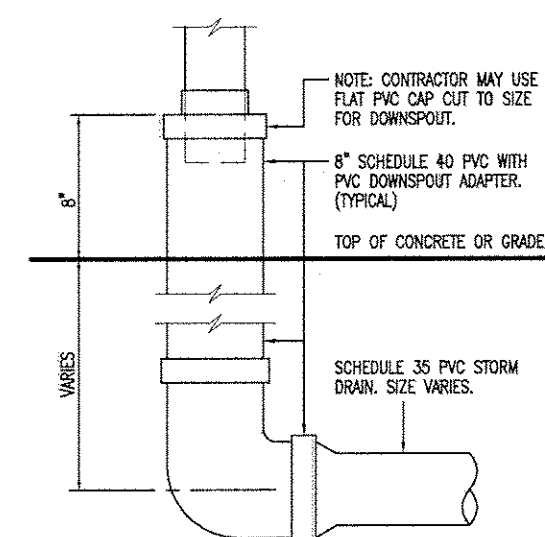
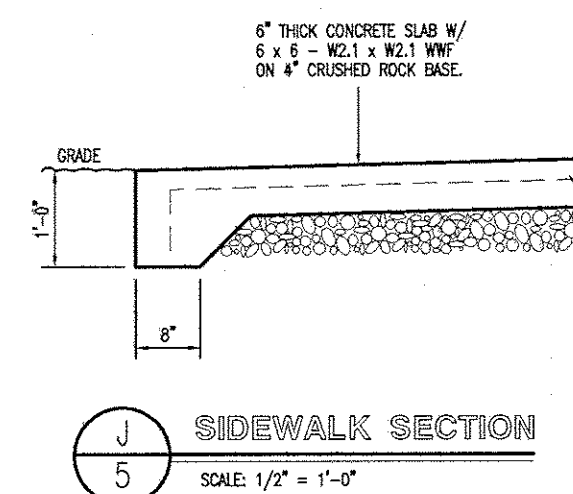
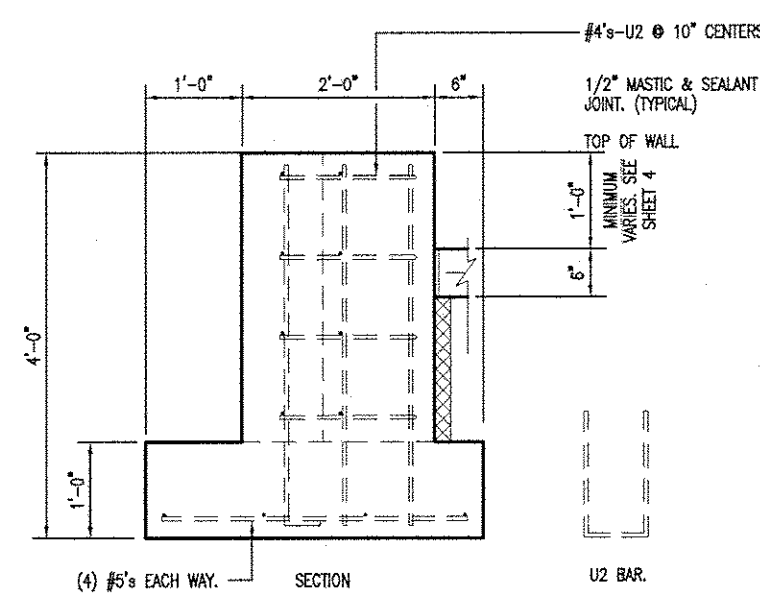
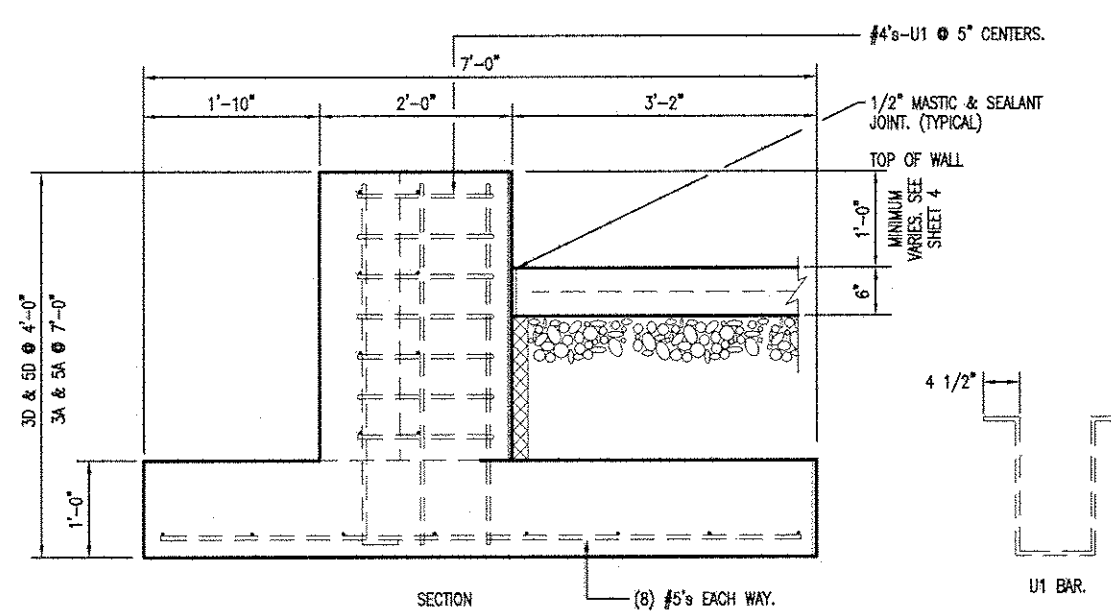


FOUNDATION PLAN

MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

Linn Maintenance Building
Central District - Osage County
143 Commercial Drive, Linn, MO 65051

DESIGN BY: LARRY CARVER
DATE: 8-11-16
Sheet
4 of 20



FOUNDATION DETAILS

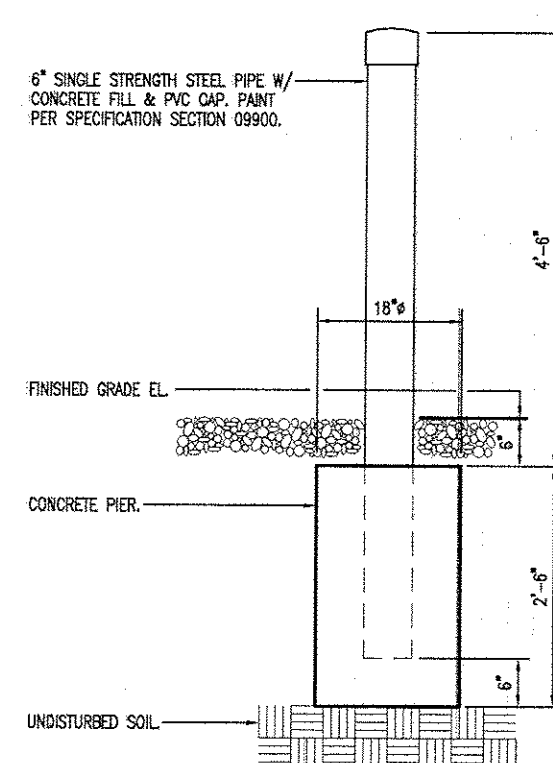
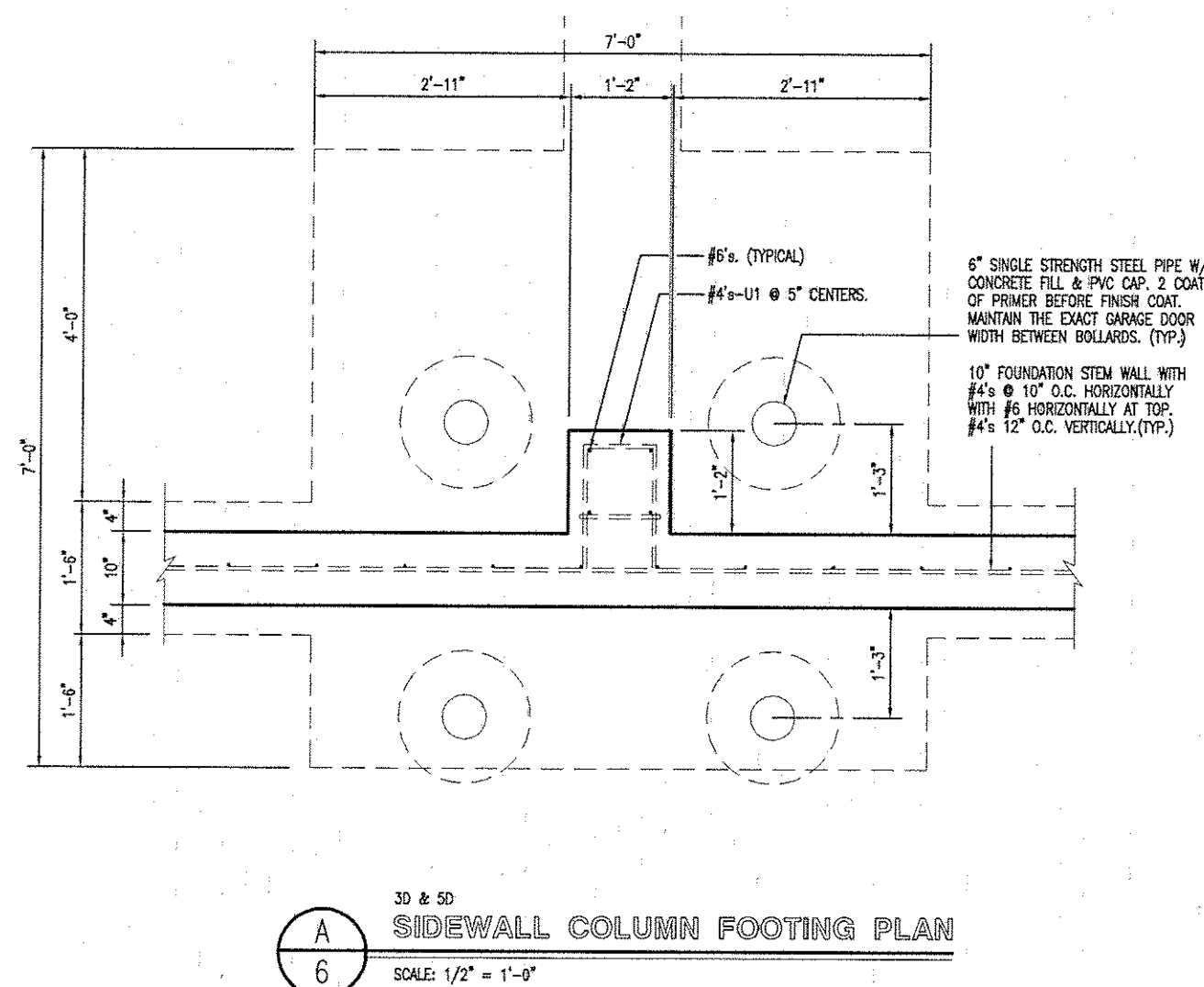
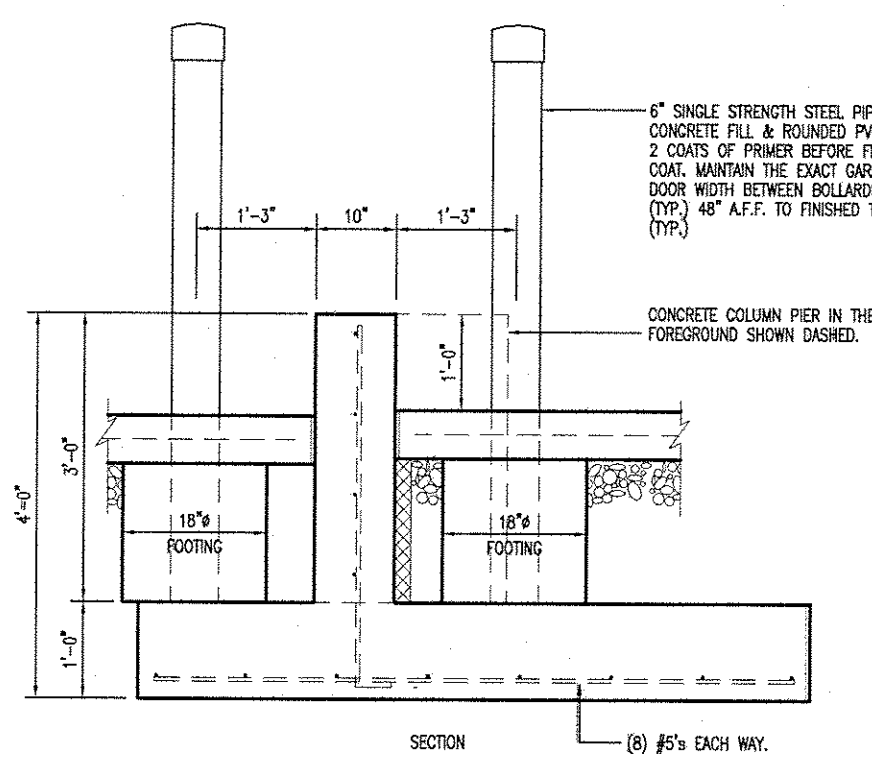
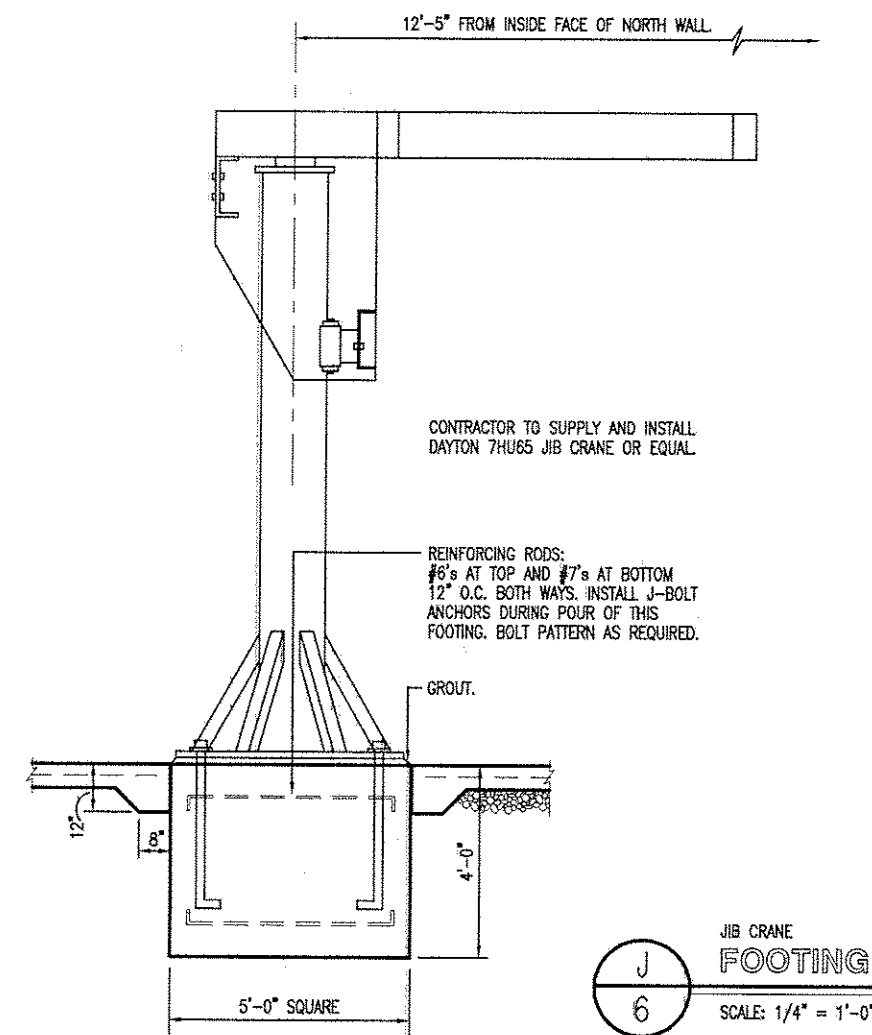
MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

Linn Maintenance Building
Central District – Osage County
143 Commercial Drive, Linn, MO 65051

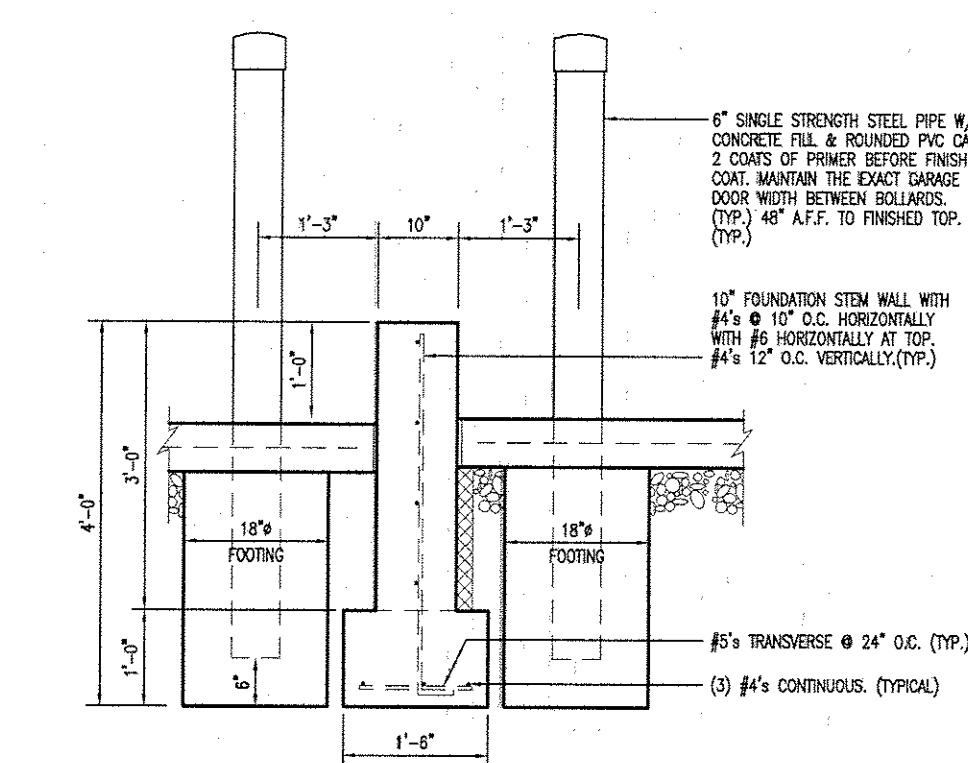
DESIGN BY: LARRY CARVER

DATE: 8-11-16

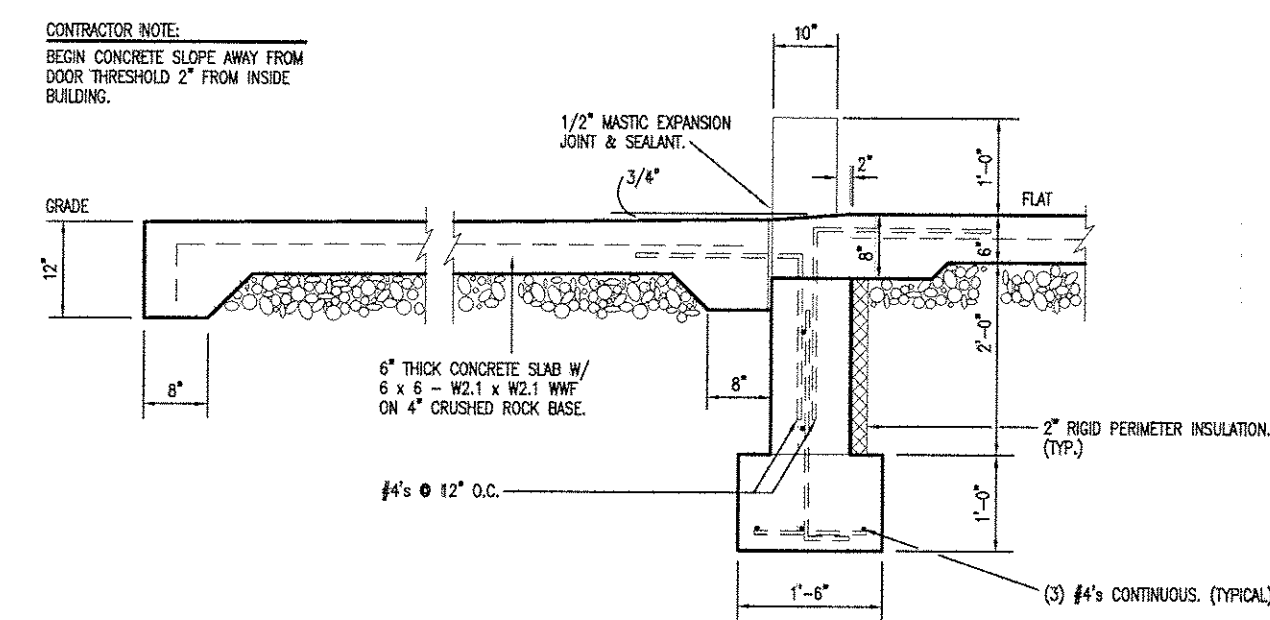
Sheet 5 of 20



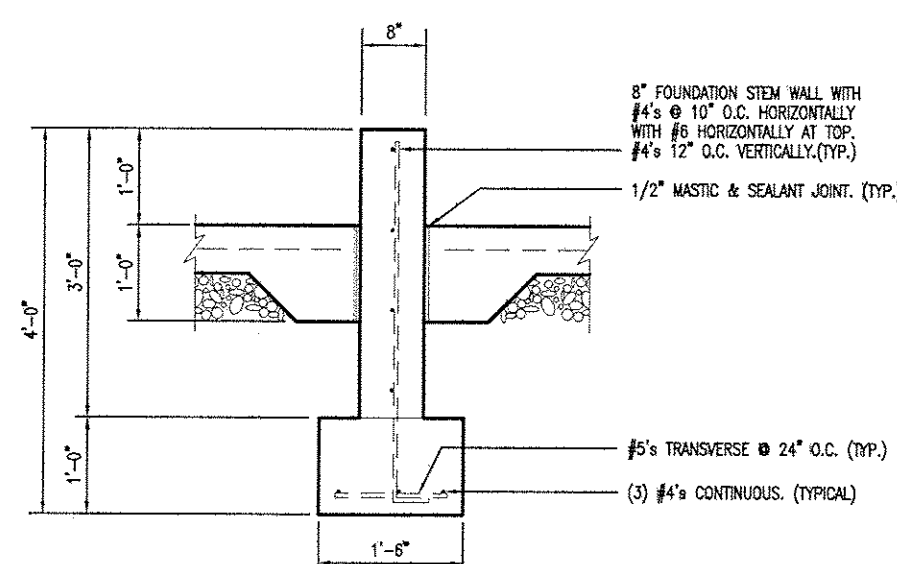
E BOLLARD ELEVATION
SCALE: 1/2" = 1'-0"



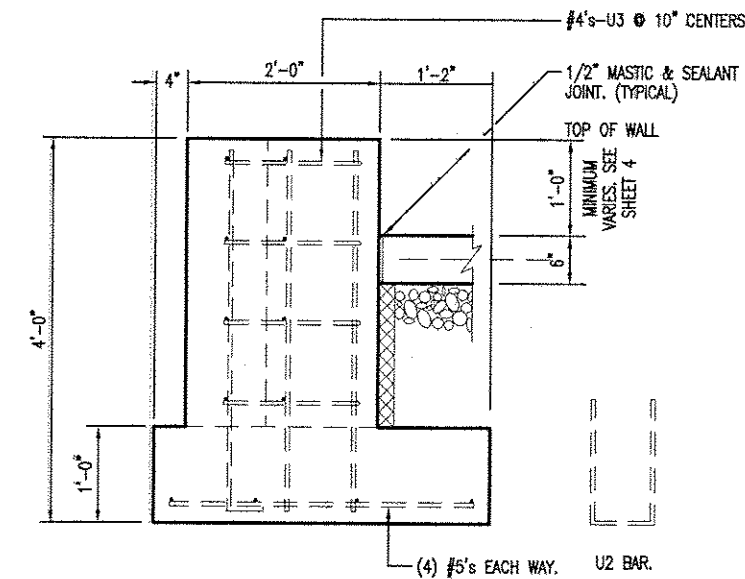
B STEM WALL @ BOLLARDS
SCALE: 1/2" = 1'-0"



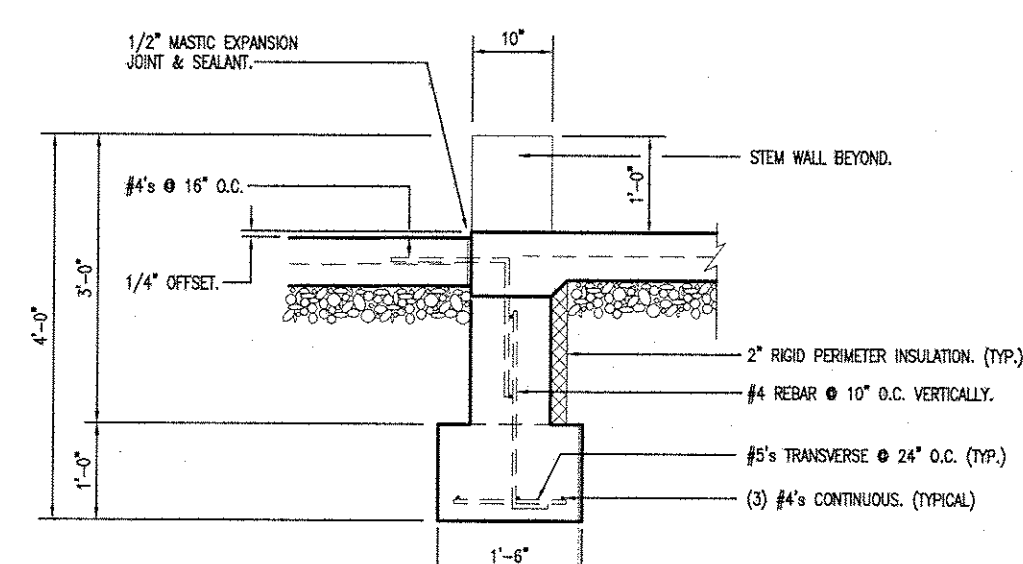
L APPROACH APRON
SCALE: 1/2" = 1'-0"



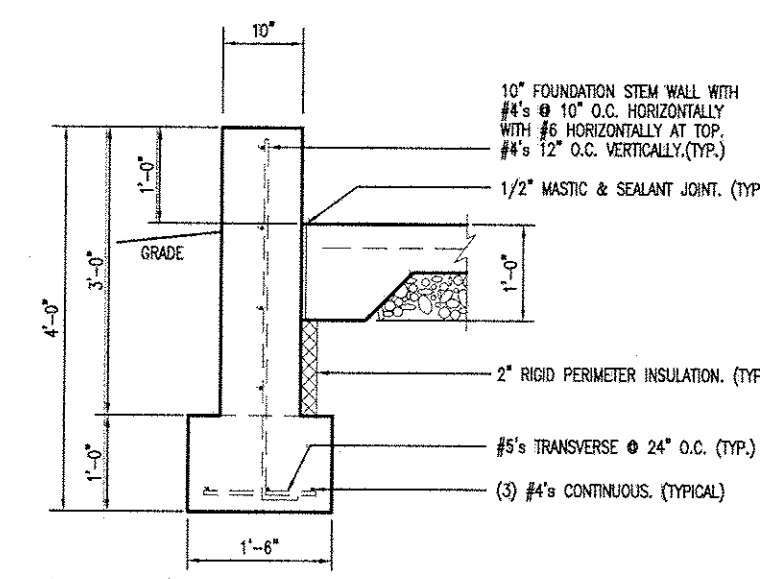
F STEM WALL
SCALE: 1/2" = 1'-0"



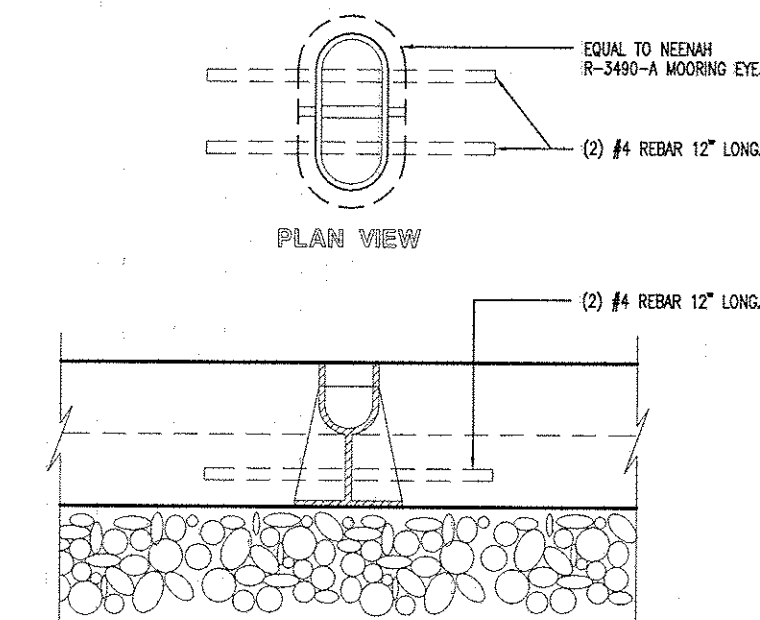
M 1A, 1D & 7A ENDWALL COLUMN SECTION
SCALE: 1/2" = 1'-0"



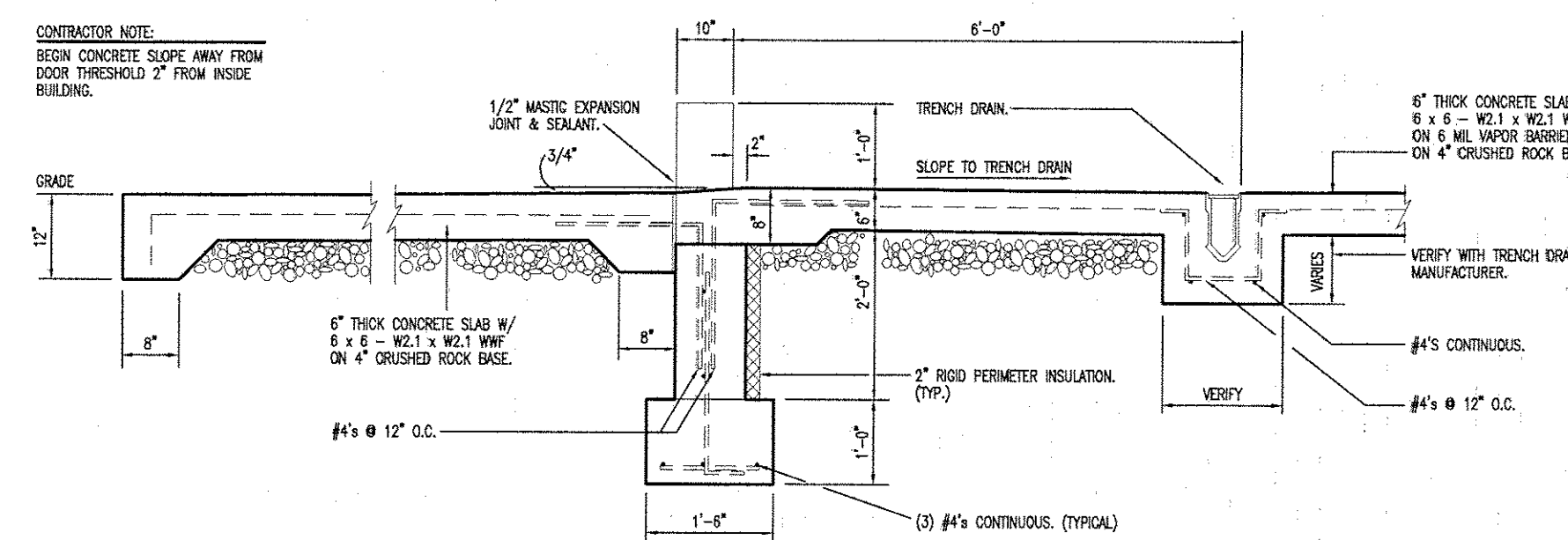
G TYPICAL EXTERIOR STEM WALL @ DOOR
SCALE: 1/2" = 1'-0"



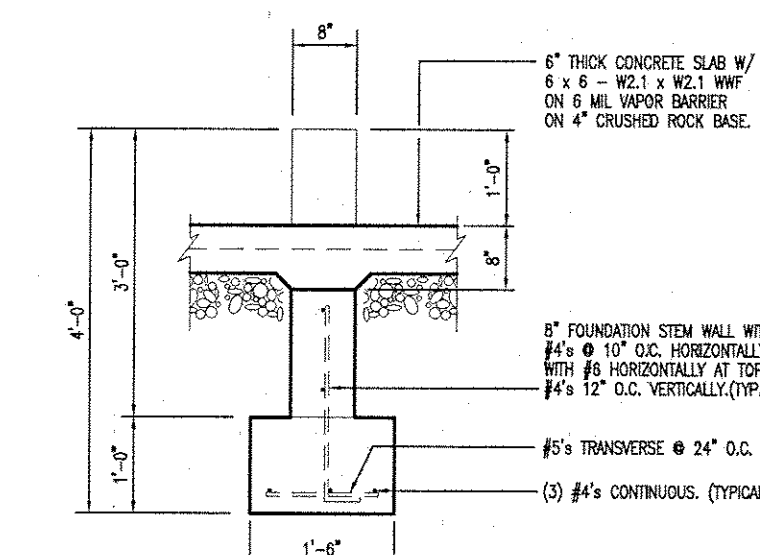
N PERIMETER STEM WALL
SCALE: 1/2" = 1'-0"



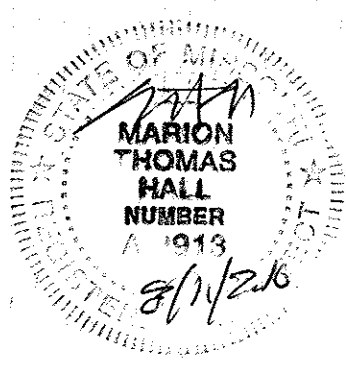
H MOORING EYE
SCALE: 1-1/2" = 1'-0"



C APPROACH APRON
SCALE: 1/2" = 1'-0"



D BLOCK-OUT @ PASSAGE DOOR
SCALE: 1/2" = 1'-0"

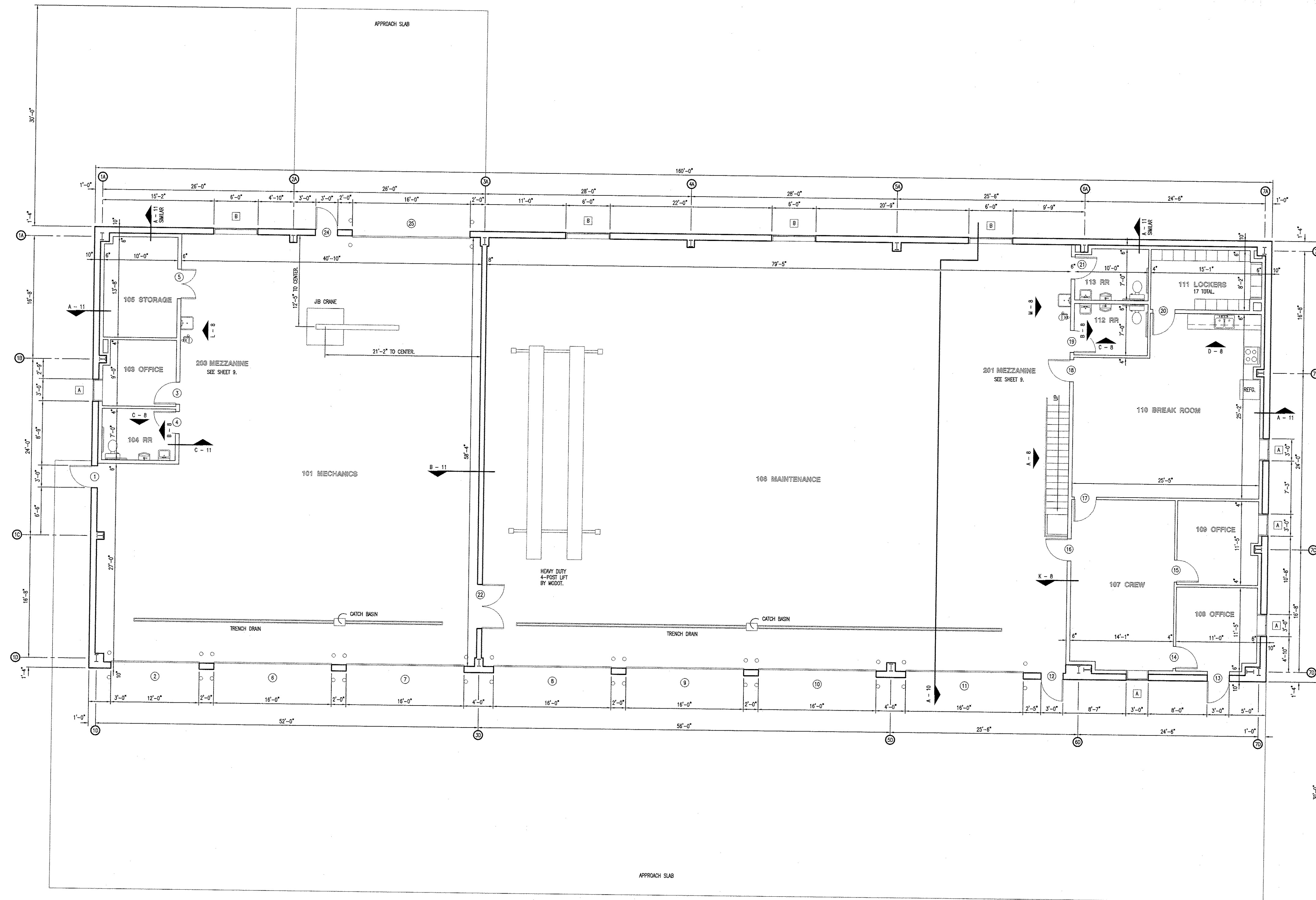


FOUNDATION DETAILS

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OF TRANSPORTATION
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Linn Maintenance Building
Central District - Osage County
143 Commercial Drive, Linn, MO 65051

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DATE: 8-11-16
Sheet
6 OF 20



A
7
FLOOR PLAN
SCALE: 1/8" = 1'-0"



FLOOR PLAN

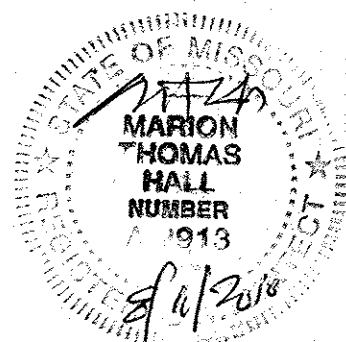
MISSOURI DEPARTMENT
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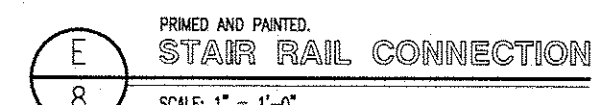
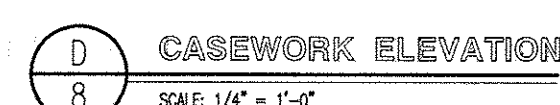
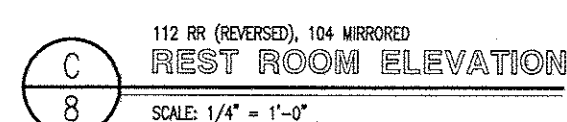
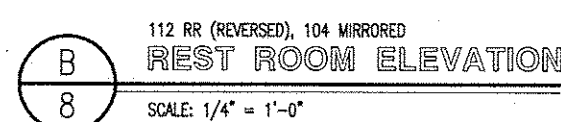
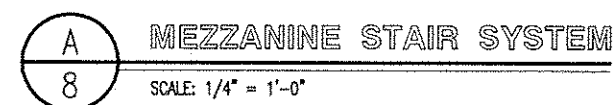
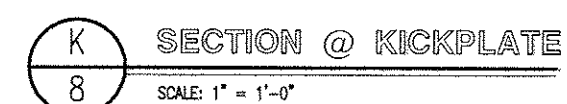
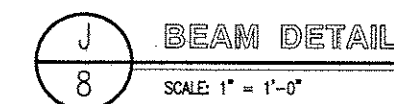
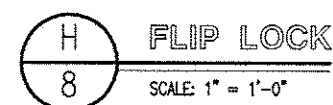
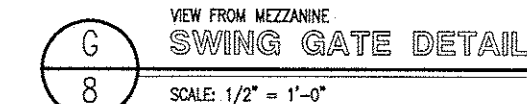
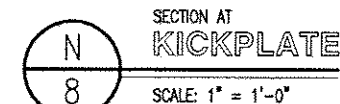
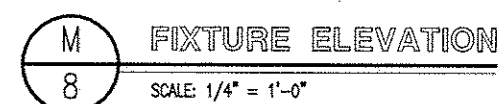
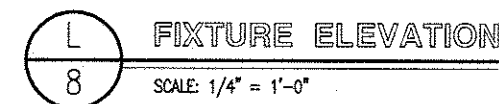
Linn Maintenance Building
Central District - Osage County
143. Commercial Drive, Linn, MO 65051

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DATE: 8-11-16

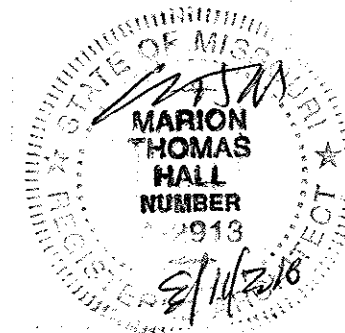
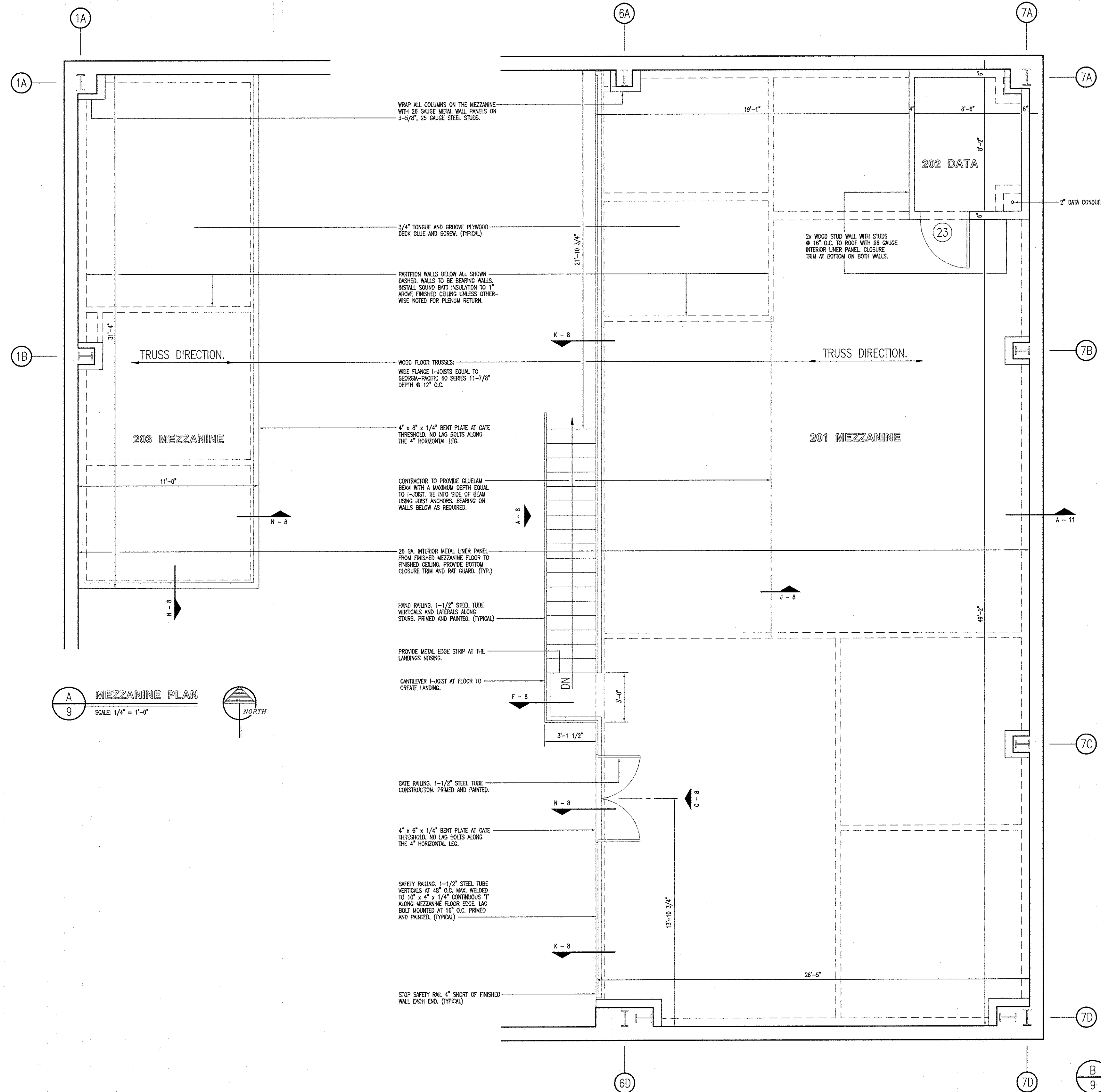
Sheet
7 of 20





Linn Maintenance Building
Central District – Osage County
143 Commercial Drive, Linn, MO. 65051

Sheet 8 of 20



MEZZANINE PLAN

MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

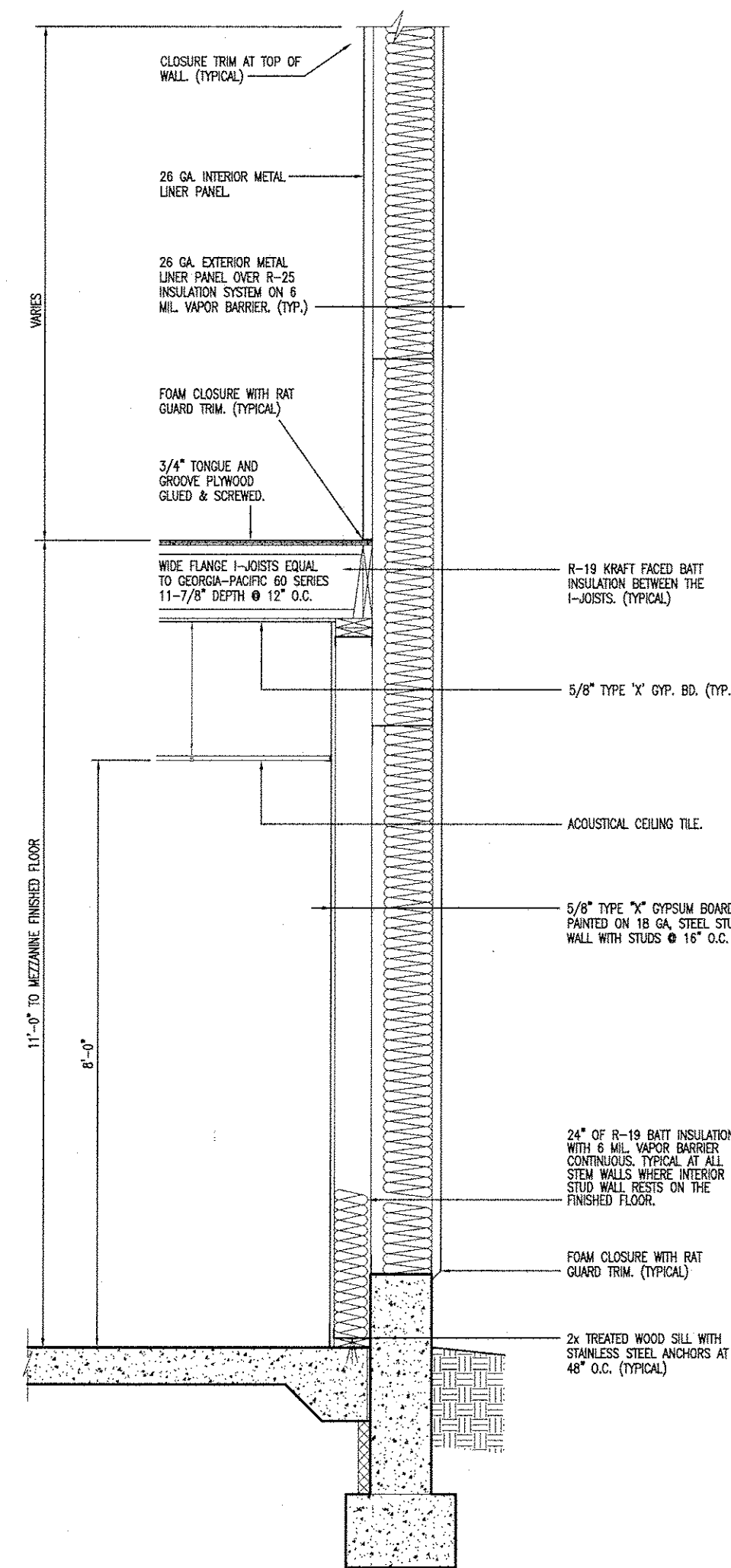
Linn Maintenance Building
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143 Commercial Drive, Linn, MO 65051

DESIGN BY: LARRY CARVER,
DATE: 8-11-16
Sheet
9 of 20

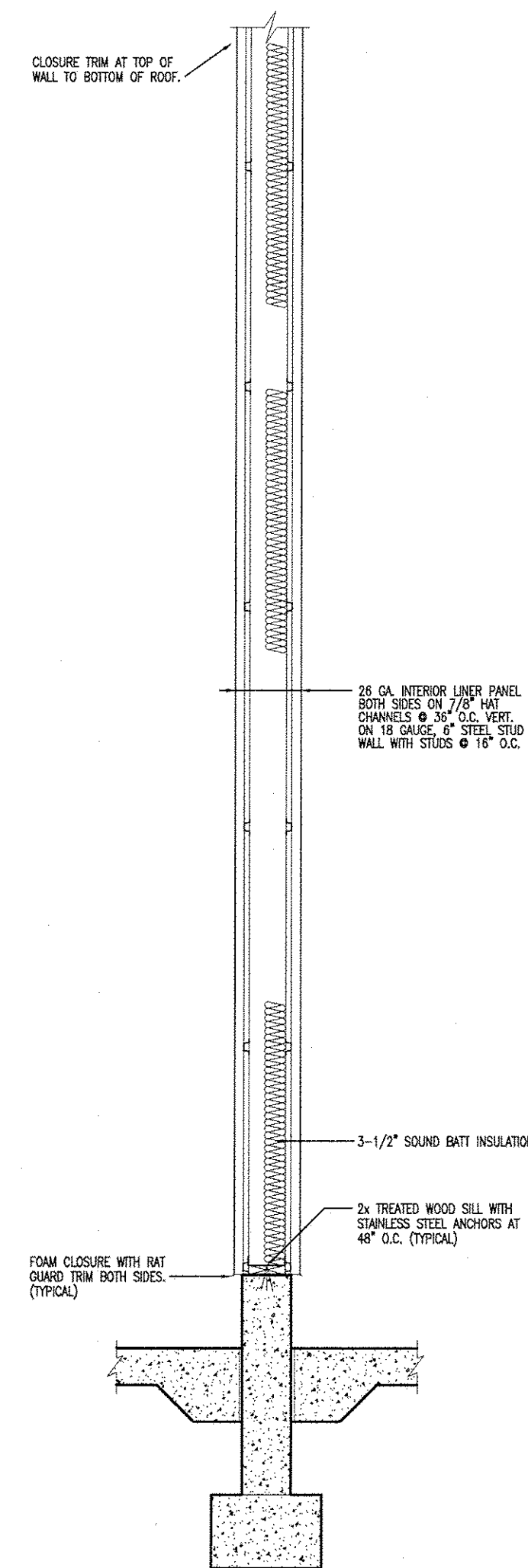


DESIGN BY: LARRY CARVER
DATE: 8-11-16
Sheet
10 OF 20

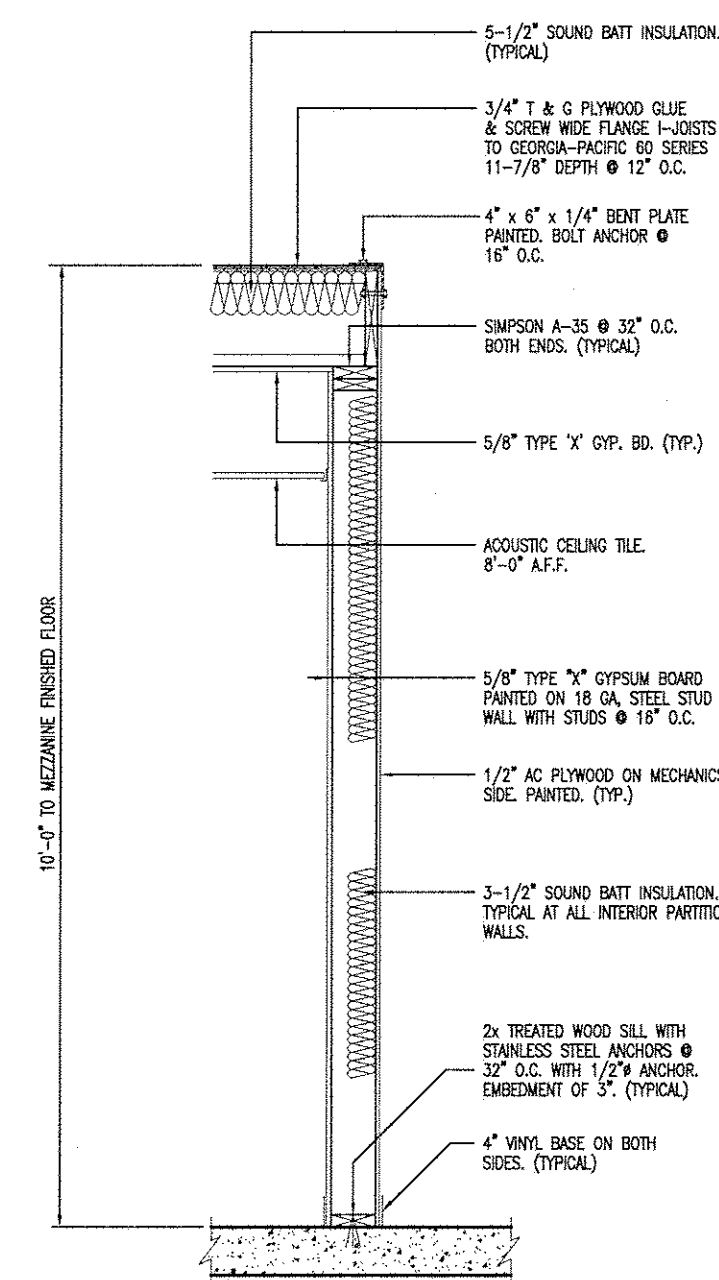




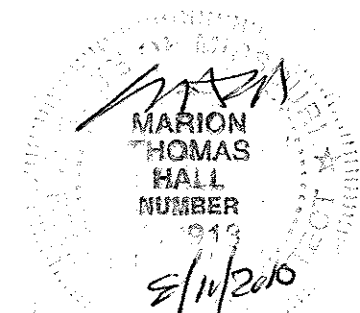
A EXTERIOR WALL SECTION
SCALE: 1/2" = 1'-0"



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



C WALL SECTION
SCALE: 1/2" = 1'-0"

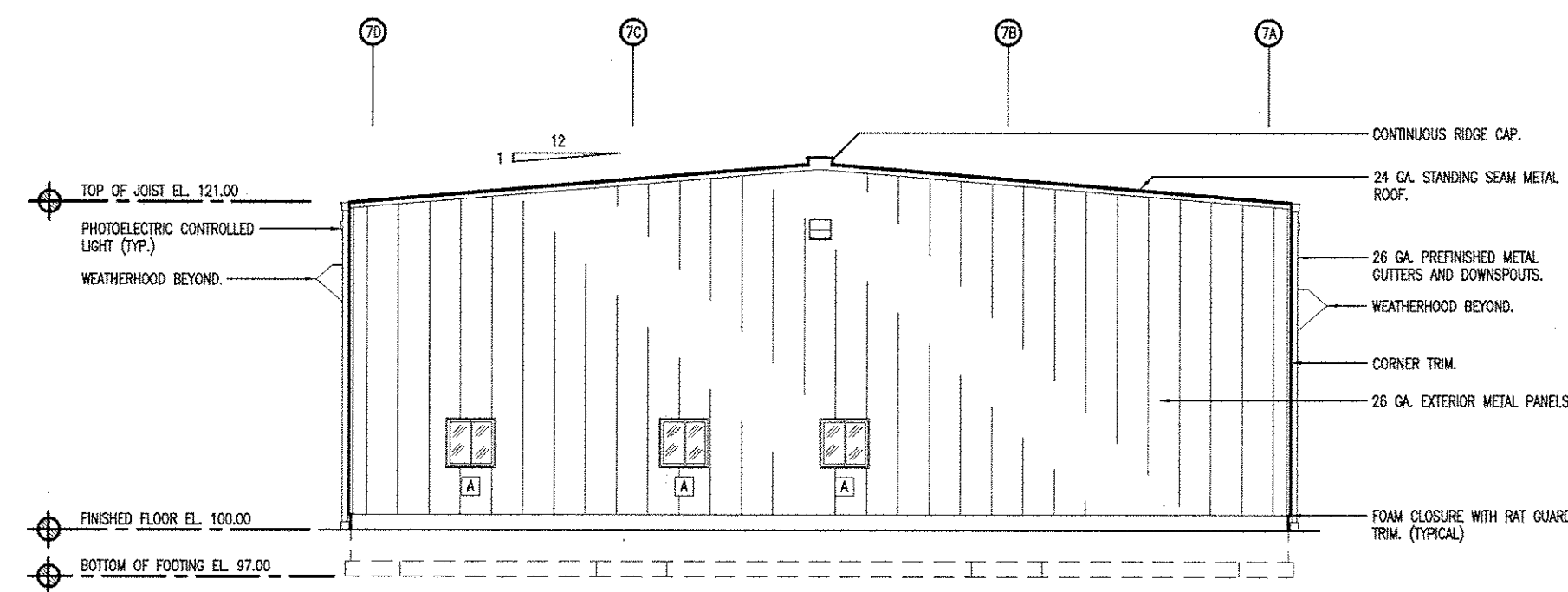


WALL SECTIONS

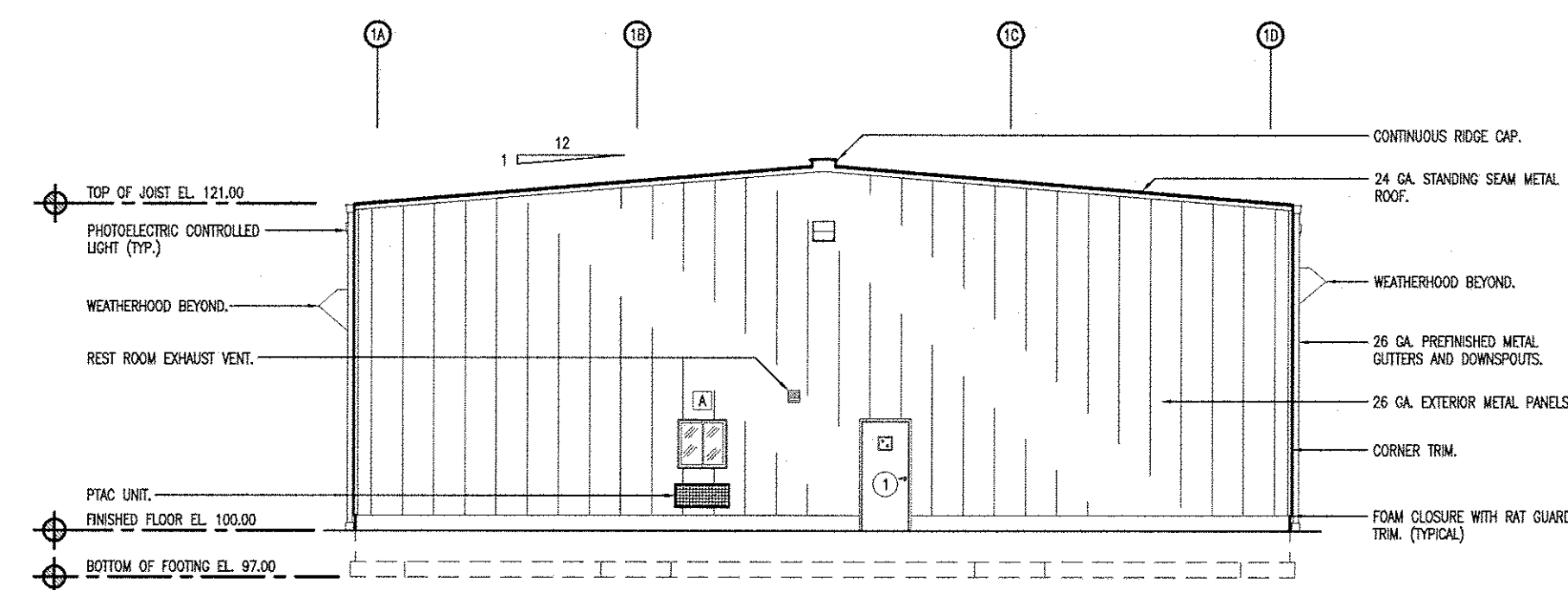
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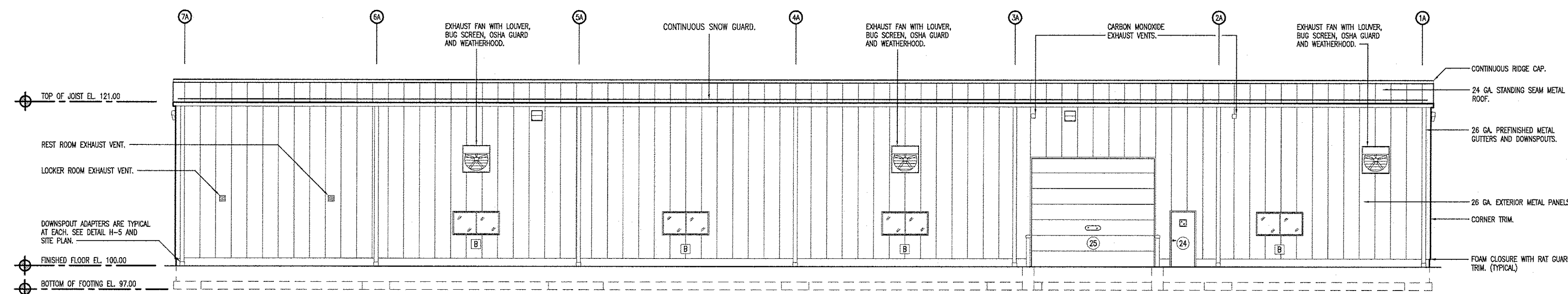
DESIGN BY: LARRY CARVER
DATE: 8-11-16
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11 of 20



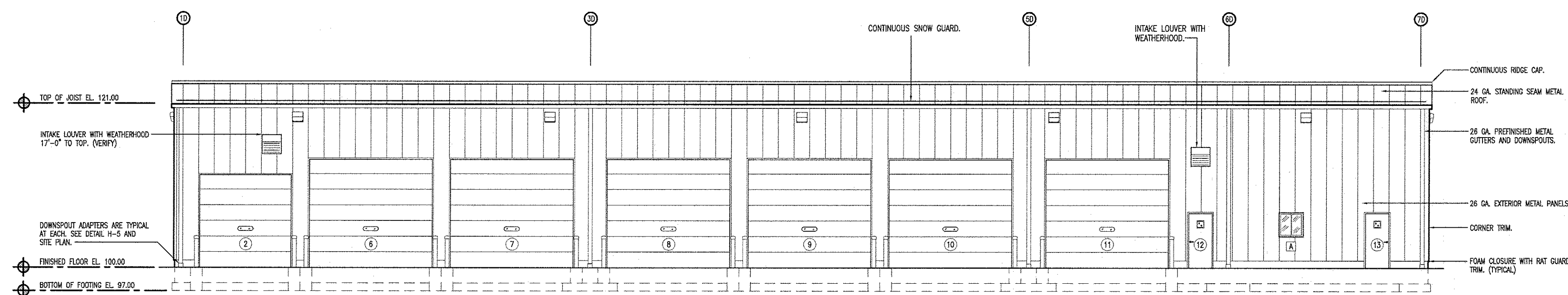
C EAST ELEVATION
SCALE: 3/32" = 1'-0"



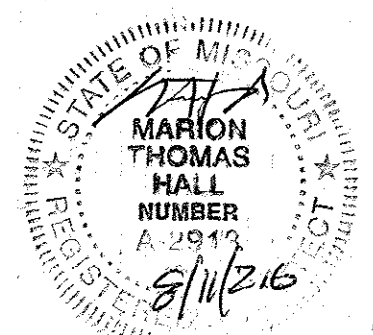
D WEST ELEVATION
SCALE: 3/32" = 1'-0"



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



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

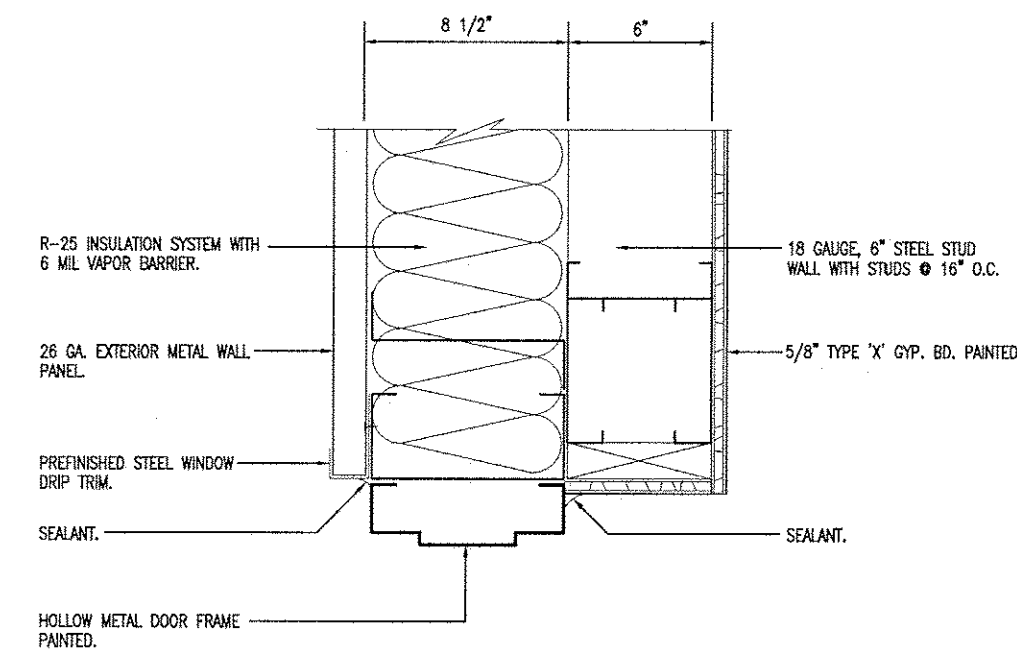


ELEVATIONS

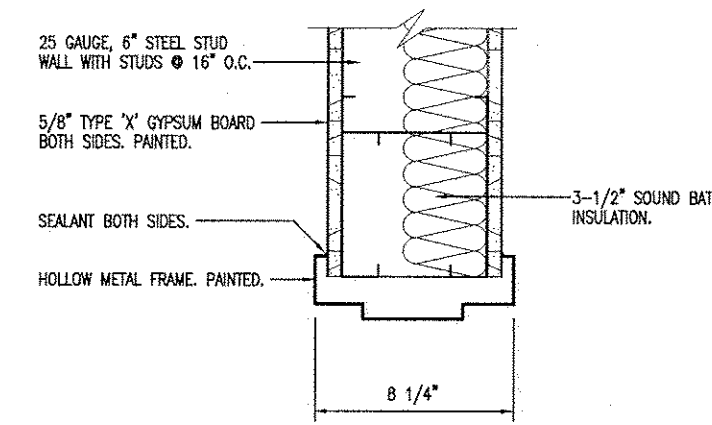
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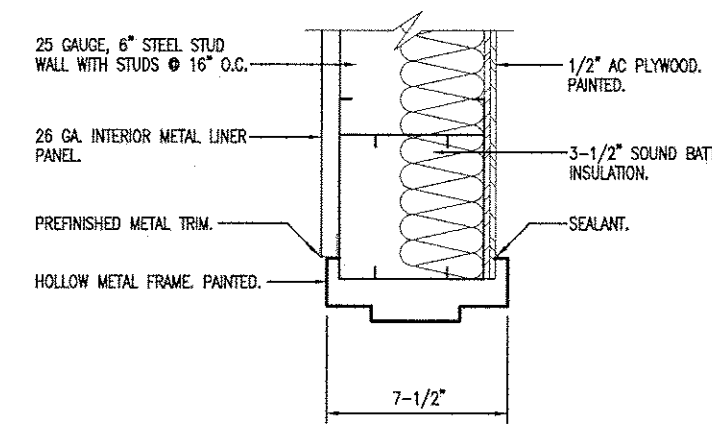
DESIGN BY: LARRY CARVER
DATE: 8-11-16
Sheet
12 of 20



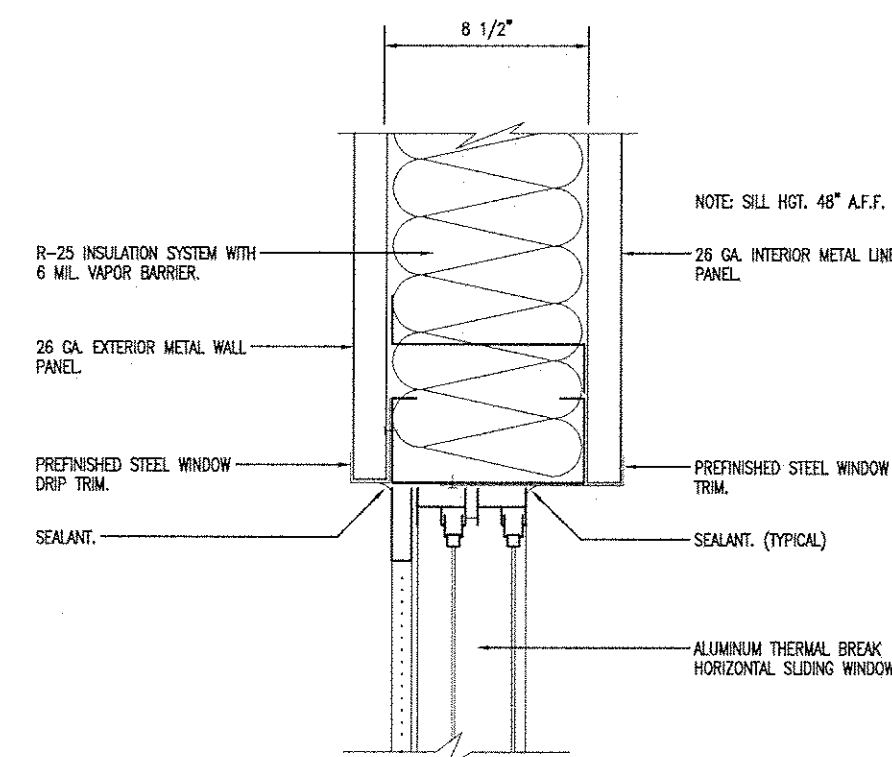
L
13
JAMB SIMILAR
DOOR HEAD
SCALE: 1-1/2" = 1'-0"



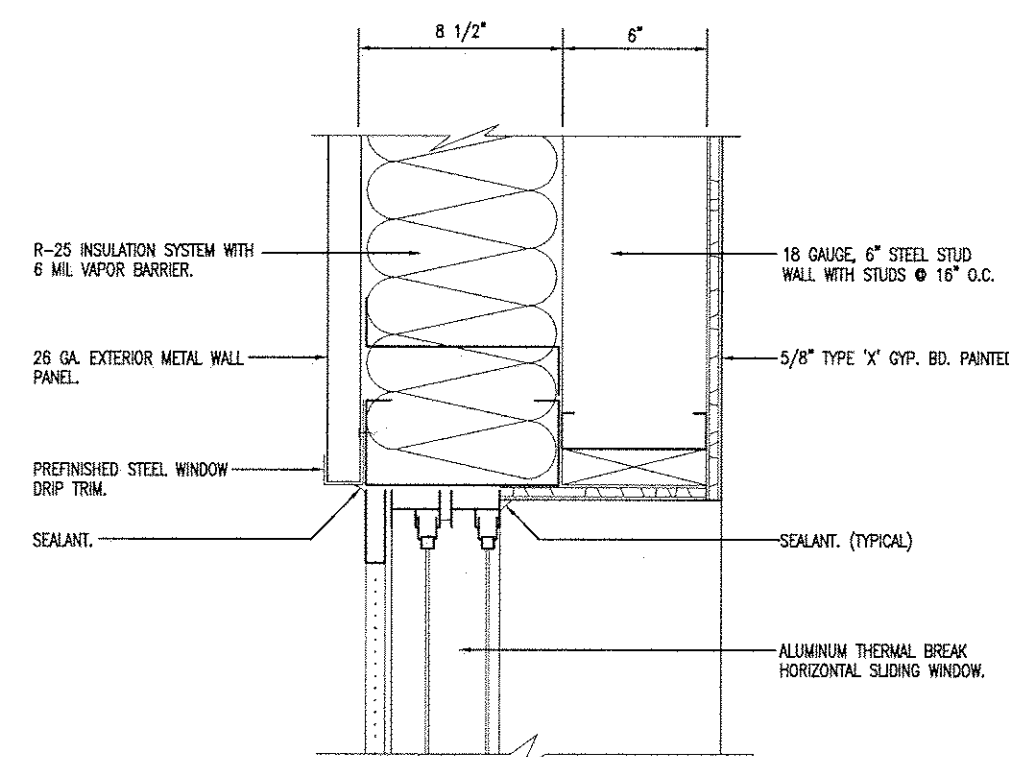
M
13
DOOR HEAD/JAMB
SCALE: 1-1/2" = 1'-0"



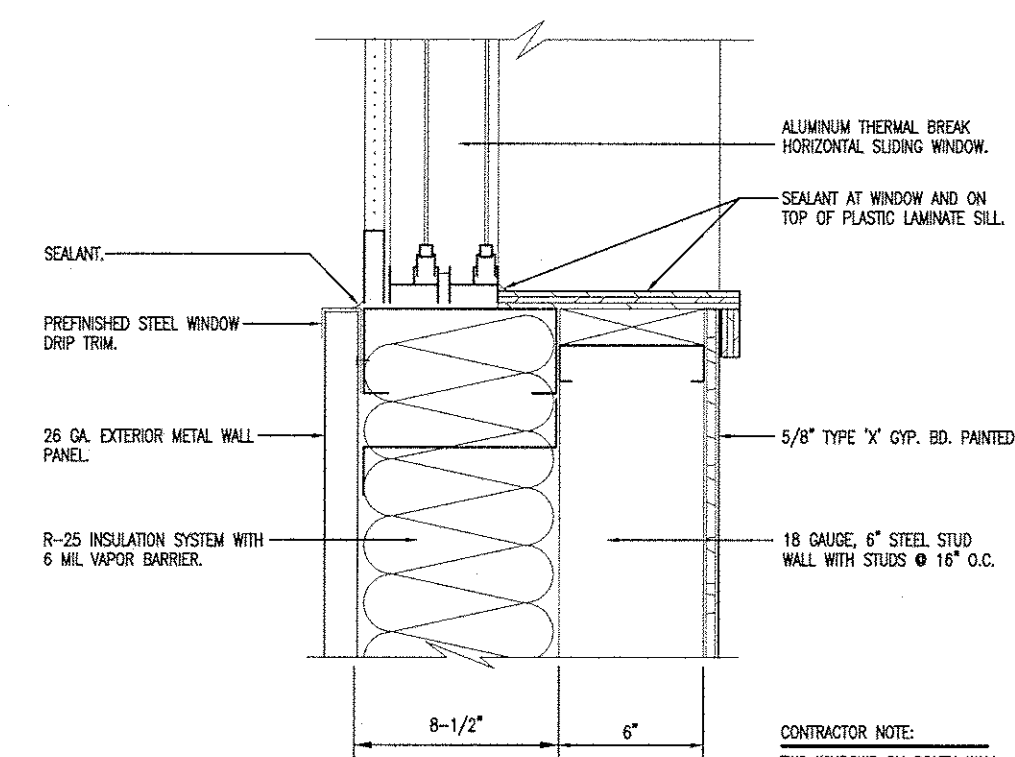
N
13
DOOR HEAD/JAMB
SCALE: 1-1/2" = 1'-0"



F
13
JAMB & SILL SIMILAR
WINDOW HEAD
SCALE: 1-1/2" = 1'-0"

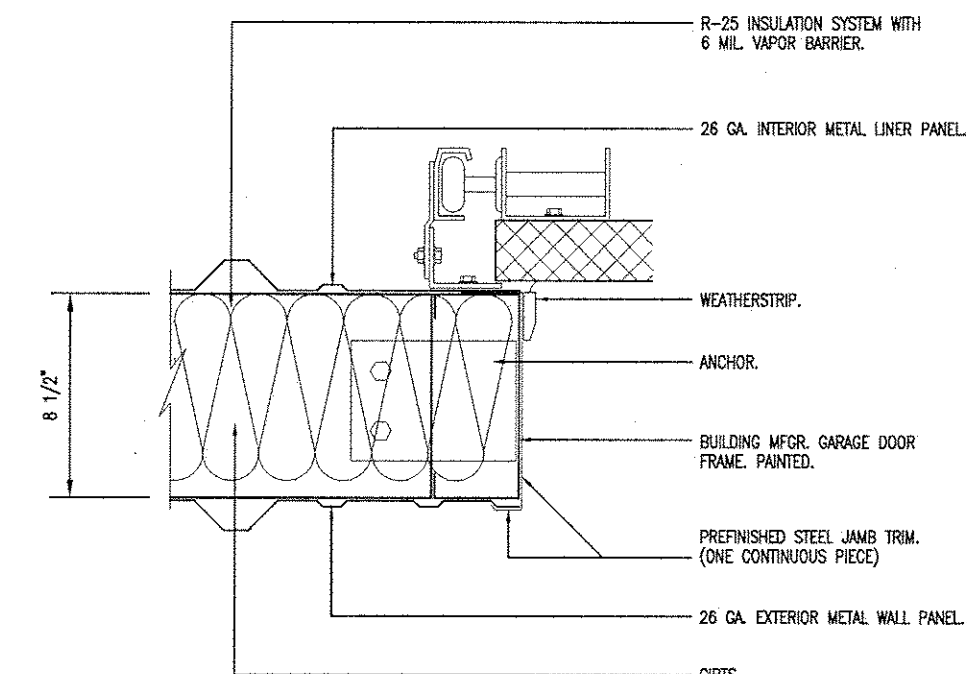


G
13
JAMB SIMILAR
WINDOW HEAD
SCALE: 1-1/2" = 1'-0"

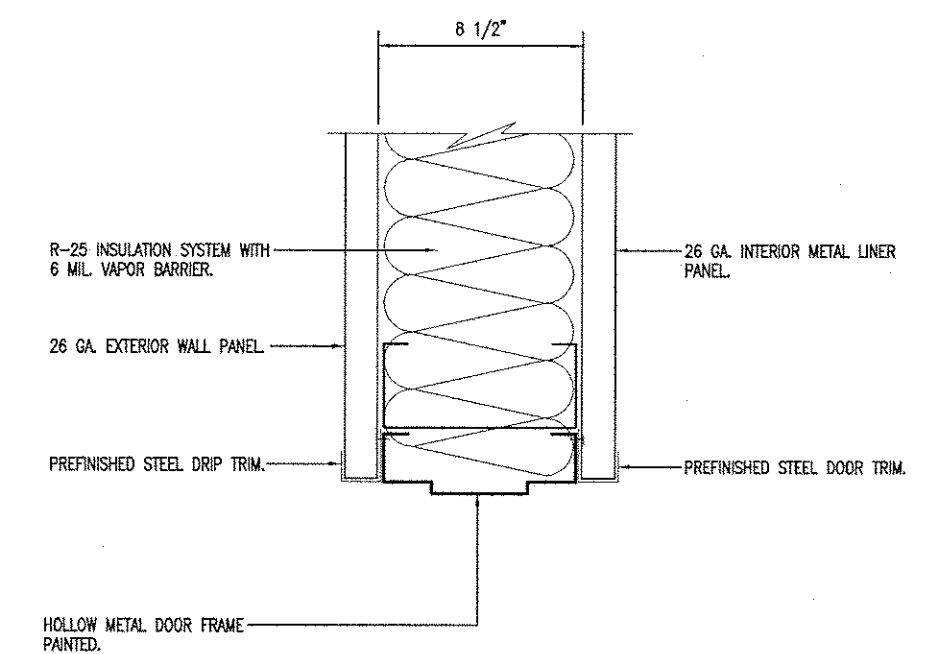


H
13
WINDOW SILL
SCALE: 1-1/2" = 1'-0"

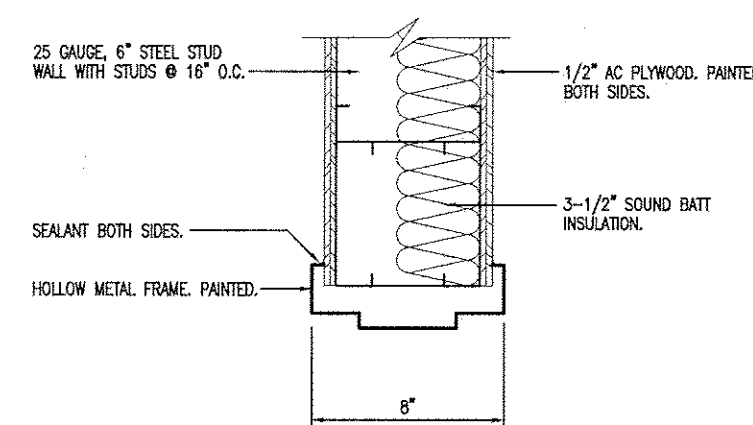
CONTRACTOR NOTE:
TWO WINDOWS ON SOUTH WALL
ATTACHED TO TOP OF CONCRETE
STEM WALL LAMINATE SILL INSIDE.
TYPICAL FLASHING AS REQUIRED.



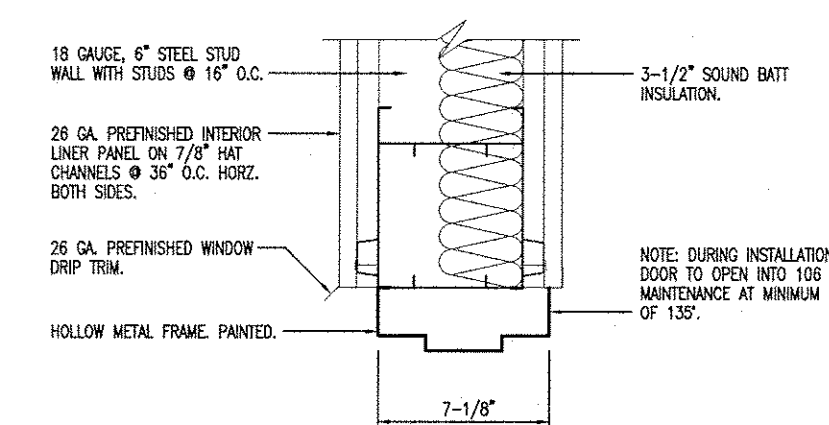
J
13
GARAGE DOOR JAMB
SCALE: 1-1/2" = 1'-0"



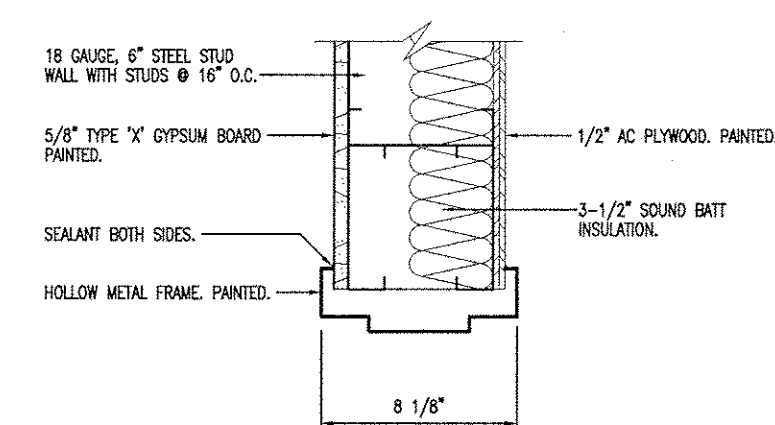
K
13
JAMB SIMILAR
DOOR HEAD
SCALE: 1-1/2" = 1'-0"



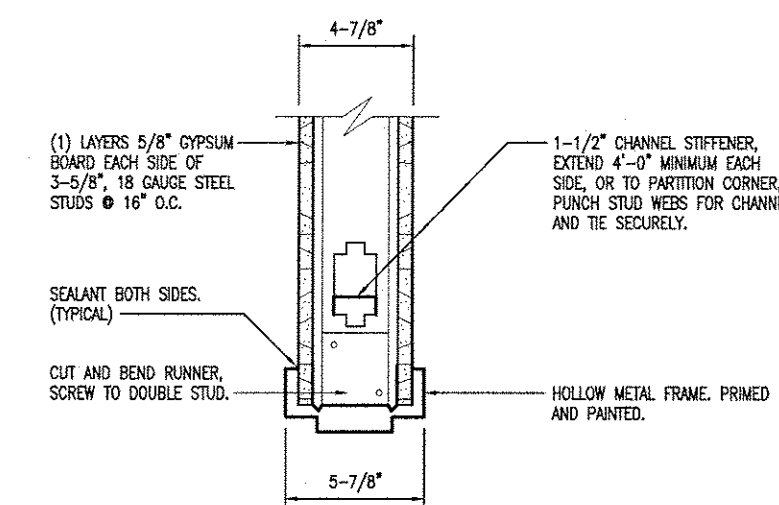
A
13
DOOR HEAD/JAMB
SCALE: 1-1/2" = 1'-0"



B
13
DOOR HEAD/JAMB
SCALE: 1-1/2" = 1'-0"

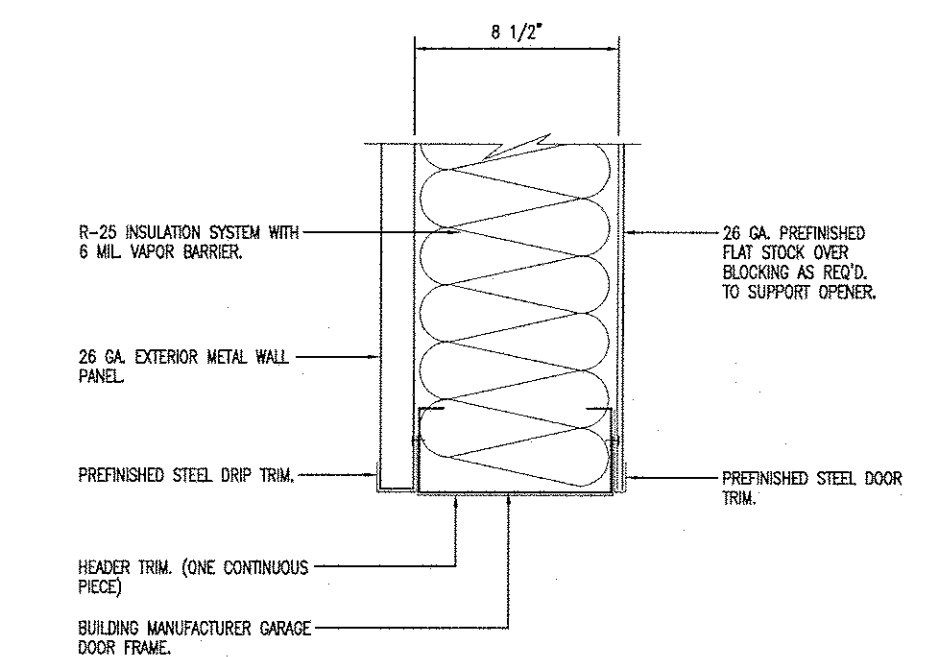


C
13
DOOR HEAD/JAMB
SCALE: 1-1/2" = 1'-0"

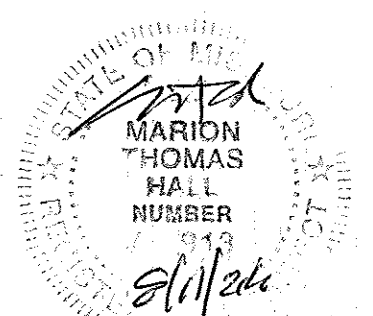


D
13
DOOR HEAD/JAMB
SCALE: 1-1/2" = 1'-0"

SOUND BATT INSULATION NOT SHOWN.



E
13
GARAGE DOOR HEAD
SCALE: 1-1/2" = 1'-0"



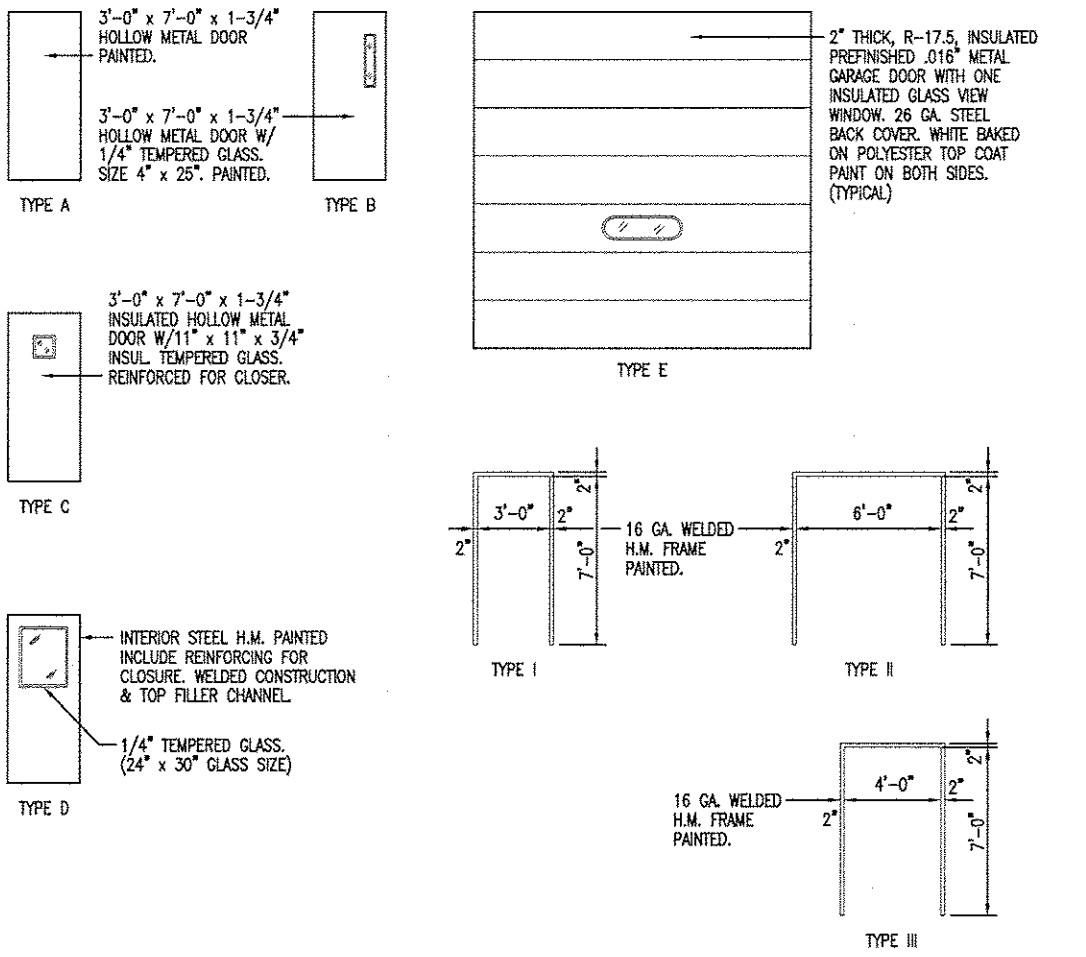
HEAD & JAMB DETAILS

MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

Linn Maintenance Building
Central District - Osage County
143 Commercial Drive, Linn, MO 65051

DESIGN BY: LARRY CARVER
DATE: 8-11-16
Sheet
13 OF 20

DOOR SCHEDULE							
NO.	SIZE	SWING	DR. TYPE	FRAM. TYPE	DETAIL	DEPTH	HOWR. GRP.
1	3'-0" x 7'-0" x 1-3/4"	LHR	C	I	K-13	8-1/2"	1
2	12'-0" x 12'-0" x 2"	-	E	-	E & J-13	-	-
3	3'-0" x 7'-0" x 1-3/4"	LH	B	I	C-13	8-1/8"	3
4	3'-0" x 7'-0" x 1-3/4"	RH	A	I	C-13	8-1/8"	2
5	(2) 3'-0" x 7'-0" x 1-3/4"	RHR	A	III	A-13	8"	5
6	16'-0" x 14'-0" x 2"	-	E	-	E & J-13	-	-
7	16'-0" x 14'-0" x 2"	-	E	-	E & J-13	-	-
8	16'-0" x 14'-0" x 2"	-	E	-	E & J-13	-	-
9	16'-0" x 14'-0" x 2"	-	E	-	E & J-13	-	-
10	16'-0" x 14'-0" x 2"	-	E	-	E & J-13	-	-
11	16'-0" x 14'-0" x 2"	-	E	-	E & J-13	-	-
12	3'-0" x 7'-0" x 1-3/4"	RHR	C	I	K-13	8-1/2"	1
13	3'-0" x 7'-0" x 1-3/4"	LHR	C	I	L-13	8-1/2"	1
14	3'-0" x 7'-0" x 1-3/4"	LHR	B	I	D-13	5-7/8"	3
15	3'-0" x 7'-0" x 1-3/4"	RH	B	I	D-13	5-7/8"	3
16	3'-0" x 7'-0" x 1-3/4"	LHR	D	I	C-13	8-1/8"	4
17	3'-0" x 7'-0" x 1-3/4"	LHR	B	I	D-13	5-7/8"	4
18	3'-0" x 7'-0" x 1-3/4"	LHR	D	I	C-13	8-1/8"	4
19	3'-0" x 7'-0" x 1-3/4"	RH	A	I	C-13	8-1/8"	2
20	3'-0" x 7'-0" x 1-3/4"	LHR	B	I	M-13	8-1/4"	4
21	3'-0" x 7'-0" x 1-3/4"	LH	A	I	C-13	8-1/8"	2
22	(2) 3'-0" x 7'-0" x 1-3/4"	RH	B	II	B-13	7-1/8"	5
23	3'-0" x 7'-0" x 1-3/4"	RHR	A	I	N-13	7-1/2"	3
24	3'-0" x 7'-0" x 1-3/4"	RHR	C	I	K-13	8-1/2"	1
25	16'-0" x 14'-0" x 2"	-	E	-	E & J-13	-	-

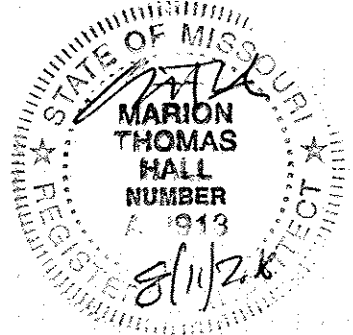


WINDOW SCHEDULE	
	SEE DETAILS F-13 3'-0" x 3'-0" ALUMINUM DOUBLE HORIZONTAL SLIDER WITH SECURITY SCREEN. SILL HEIGHT: 48" A.F.F.
	SEE DETAILS F-13 5'-0" x 3'-0" ALUMINUM DOUBLE HORIZONTAL SLIDER WITH SECURITY SCREEN. SILL HEIGHT: 48" A.F.F.

GENERAL NOTES:
CONTRACTOR 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.

FINISH SCHEDULE							
NO.	ROOM	FLOOR	WALLS	BASE	CEILING		
		3/4" T & C PLYWOOD, CORE AND SEALER AS SHOWN ON GA. WEATHER PANELS	1/2" AC PLYWOOD ON EXTERIOR SIDE OF OFFICE WALL, 5/8" OPSUM BOARD, 5/8" GREEN OPS. BD. 1/2" AC PLYWOOD, PAINTED	4" X 4" X 1/2" ON EXTERIOR SIDE OF OFFICE WALL, R-30 SINGLE SHWR SYSTEM INSULATION, PAINTED R-10 G.I. JOIST R-10 G.I. JOIST			
101	MECHANICS	•	•	•	•		
102	NOT USED						
103	OFFICE	•	•	•	•		
104	REST ROOM (RR)	•	•	•	•		
105	STORAGE	•	•	•	•		
106	MAINTENANCE	•	•	•	•		
107	CREW	•	•	•	•		
108	OFFICE	•	•	•	•		
109	OFFICE	•	•	•	•		
110	BREAK ROOM	•	•	•	•		
111	LOCKERS	•	•	•	•		
112	REST ROOM (RR)	•	•	•	•		
113	REST ROOM (RR)	•	•	•	•		
210	MEZZANINE	•	•	•	•		
202	DATA	•	•	•	•		
203	MEZZANINE	•	•	•	•		

HVAC SCHEDULE					
SYM.	UNIT	MANUFACTURER	BTU OUTPUT	FUEL	VOLTAGE
A	36" x 36" SHUTTER MOUNT EXHAUST FAN W/WEATHERSHIELD	DAYTON HL88 & 178W2 OR EQUAL 6.4 AMPS	6,480 CFM	ELECTRIC	120
B	MOTORIZED DAMPERS WITH WEATHERHOOD	DAYTON MODEL 33720 & 178W1 OR EQUAL .37 AMPS	---	ELECTRIC	115
C	GAS FIRED UNIT HEATER	REZNOR MODEL LUMP 125 OR EQUAL	87,150	PROPANE	115
D	CARBON MONOXIDE EXHAUST SYSTEM	CAR-MON MODELS TSR-S32, 6" REEL CMM-9 OR EQUAL	---	ELECTRIC	115
E	SPLIT-DUCTLESS A/C UNIT	DAIKIN MODEL FXS-A18H9G OR EQUAL	18,000 BATED	ELECTRIC	208/230
F	GAS FURNACE/ FORCED AIR	TRANE MODEL TWH160B09A351A OR EQUAL	60,000	GAS/ ELECTRIC	120
G	PTAC UNIT	FRIEDRICH MODEL P2407K OR EQUAL	COOL 6.5K HEAT 7.7K	ELECTRIC	208/230
H	GAS FIRED UNIT HEATER	REZNOR MODEL LUMP 125 OR EQUAL	124,500	PROPANE	115
J	THERMOSTAT T00N20A3320A	TRANE OR EQUAL	---	---	---
K	CONDENSING UNIT	TRANE MODEL 4TR036B1000A OR EQUAL	60,000	ELECTRIC	208/230

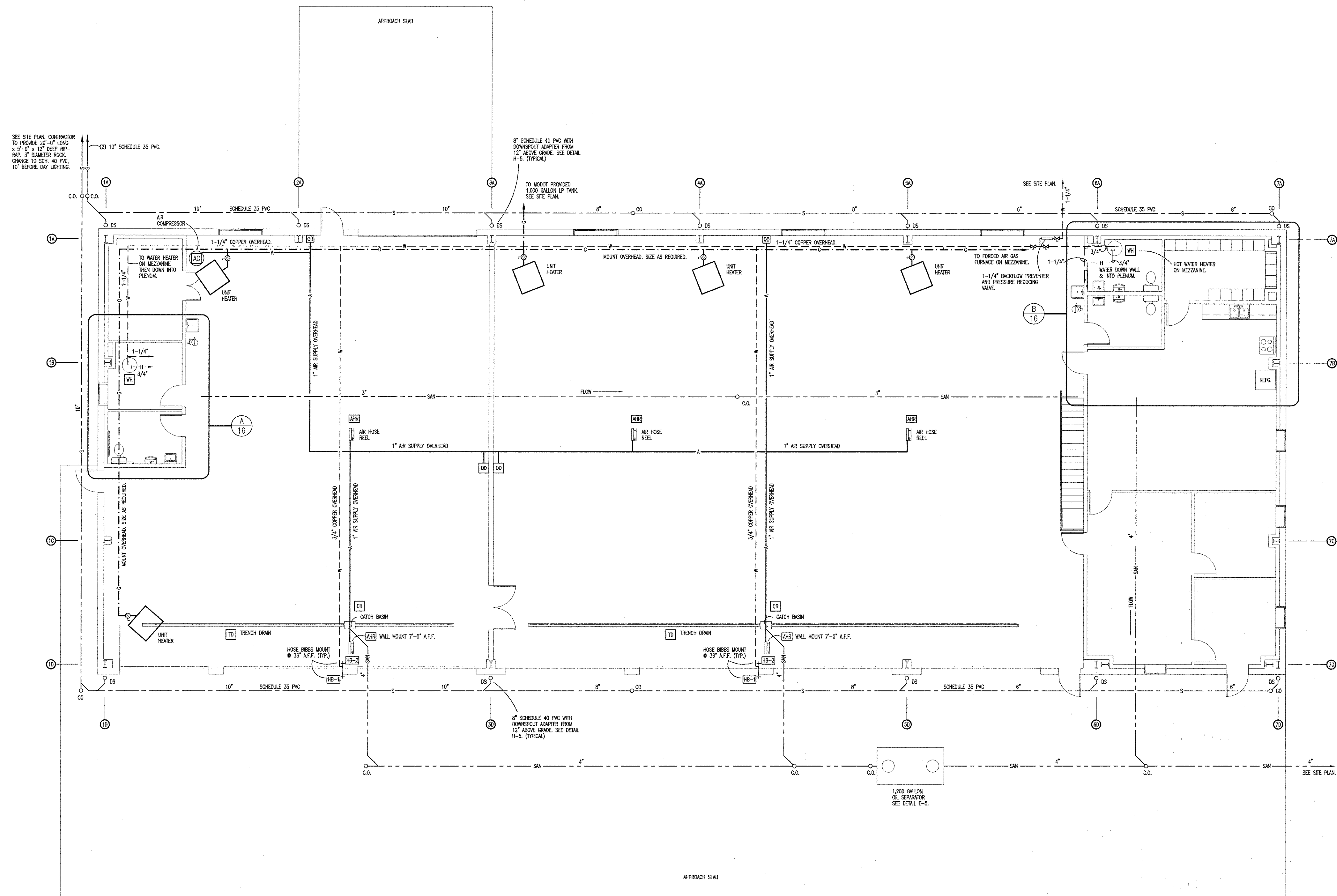


SCHEDULES

MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

Linn Maintenance Building
Central District - Osage County
143 Commercial Drive, Linn, MO 65051

DESIGN BY: LARRY CARVER
DATE: 8-11-16
Sheet
14 OF 20

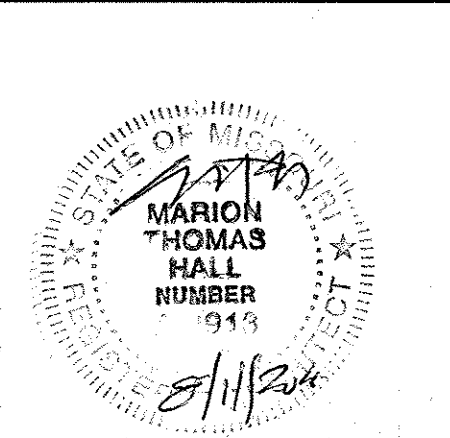
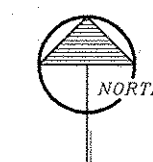


LEGEND

HOT WATER	— H —
WATER	— W —
SANITARY SEWER	— SAN —
STORM	— S —
COMPRESSED AIR	— A —
GAS	— G —
CLEANOUT	— C.O. —
GAS VALVE	— (V) —

SEE SHEET 16 FOR
PLUMBING SCHEDULE.

PLUMBING PLAN
SCALE: 1/8" = 1'-0"

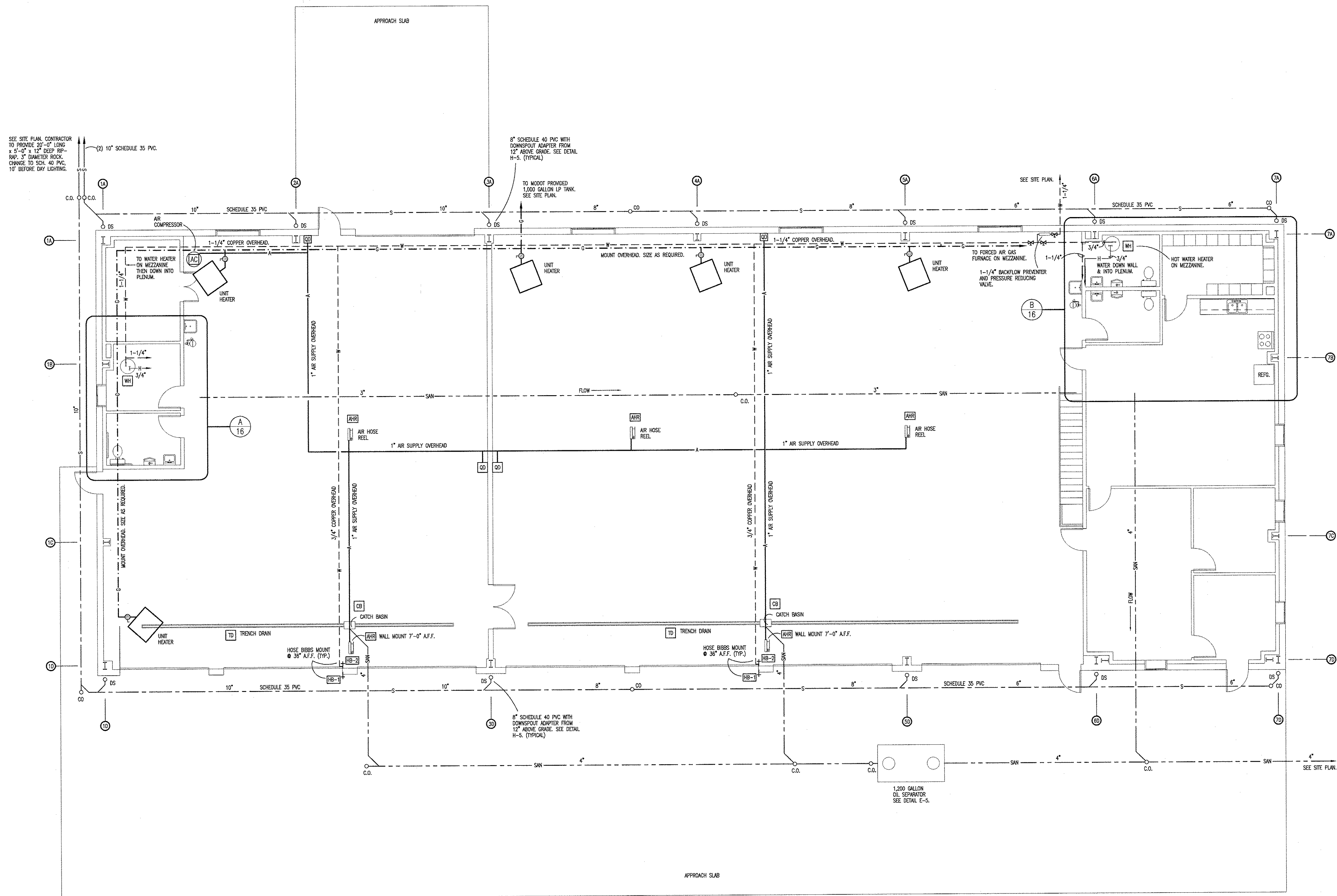


PLUMBING PLAN

MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

Linn Maintenance Building
Central District – Osage County
143 Commercial Drive, Linn, MO 65051

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DATE: 8-11-16
Sheet
15 of 20

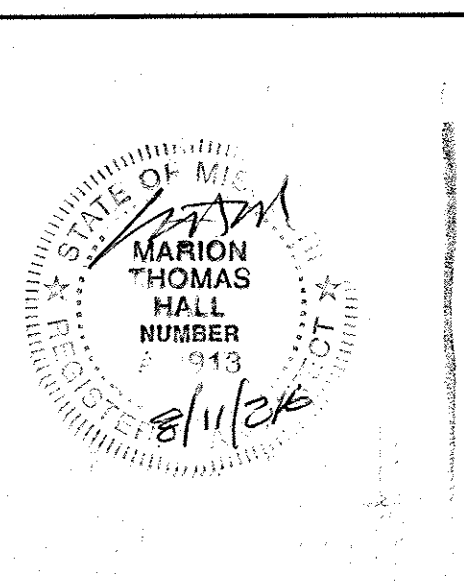
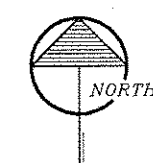


LEGEND

HOT WATER	— H —
WATER	— W —
SANITARY SEWER	— SAN —
STORM	— S —
COMPRESSED AIR	— A —
GAS	— G —
CLEANOUT	— C.O. —
GAS VALVE	— V —

SEE SHEET 16 FOR
PLUMBING SCHEDULE.

PLUMBING PLAN
SCALE: 1/8" = 1'-0"



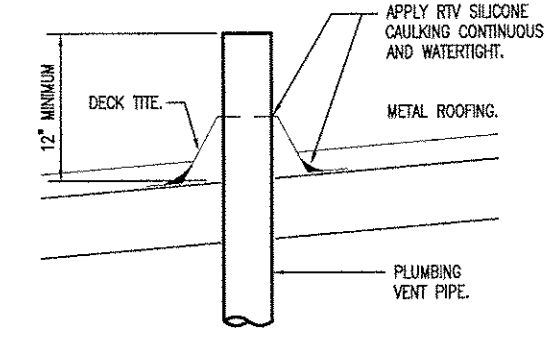
PLUMBING PLAN

MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

Linn Maintenance Building
Central District – Osage County
143 Commercial Drive, Linn, MO 65051

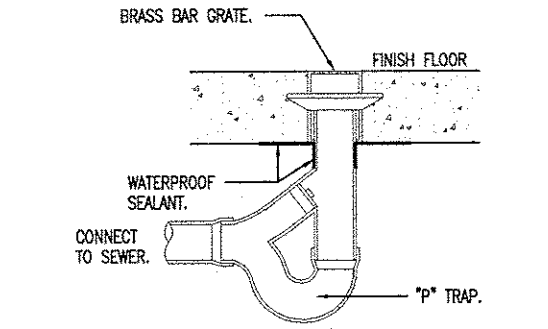
DESIGN BY: LARRY CARVER
DATE: 8-11-16
Sheet
15 of 20

PLUMBING SCHEDULE						
SYM.	FIXTURE	PIPE CONNECTION				REMARKS
		CW	HW	S&W	VENT	
WC	WATER CLOSET	1/2"		3"	2"	EQUAL TO AMERICAN STANDARD #3777.100 FLOOR MOUNT, PRESSURE ASSISTED, ELONGATED WATER-SAVING "CADET" WATER CLOSET, 16-1/2" HIGH 3106.016 BOWL, 400-100 TANK, INCLUDE OPEN FRONT SEAT WITH LID, (WHITE)
U	URINAL	3/4"		1-1/2"	1-1/2"	EQUAL TO AMERICAN STANDARD #6601.021 "TINYBOOK" 1.0 GALLON URINAL WITH SLOAN ROTAL 100-1 FLUSH VALVE
LVATORY	LABORATORY	1/2"	1/2"	2"	2"	EQUAL TO AMERICAN STANDARD #4867.024, 20" x 18" ENAMELED, CAST IRON "REGALTY" WALL MOUNT LAVATORY WITH 4" CENTERSET SHAMPOO SHOWER 5-20-2-SI SINGLE LEVER LAVATORY FAUCET, INCLUDE AN ADA APPROVED INSULATION KIT
SS	SERVICE SINK	1/2"	1/2"	1-1/2"	1-1/2"	EQUAL TO MUSTIE #186, 20" x 24" FIBERGLASS, CRUSHED STONE AND RESIN GLEND SERVICE SINK WITH FAUCET ELAY LK4066A08L2, 4" CENTER, SWING SPOUT AND AERATOR END
EW	EMERGENCY EYE WASH	1-1/4"	3/4"			EQUAL TO BRADLEY "MODEL 310-310" DRENCH SHOWER/EYE WASH UNIT SAFETY YELLOW, 515-2100 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" R.P.T. OUTLET, INTEGRAL VACUUM BREAKER-BLOCK FLOW PREVENTER
HB-2	HOSE BIBB	3/4"				INTERIOR - EQUAL TO WOODFORD MODEL, 26 WALL FAUCET WITH 3/4" R.P.T. OUTLET, INTEGRAL VACUUM BREAKER-BLOCK FLOW PREVENTER
FD	FLOOR DRAIN			2"		PVC FLOOR DRAIN WITH P-TRAP, 6-1/2" DIA. NICKEL-BRONZE STRAINER, 2" FIP THREADED THROAT-BALL BACKWATER DEVICE, 1-1/2" PRE-INSTALLED FIP CLEAN-OUT THROUGHS
CO	CLEAN OUT					INTERIOR APPLICATIONS: BRASS WITH ADAPTER AND CAP EQUAL TO PIPE SIZE SHOWN. EXTERIOR APPLICATIONS USE PVC
AC	AIR COMPRESSOR					EQUAL TO INGERSOLL-RAND MODEL #240, 20A, 5 HP, 60 GALLON VERTICAL, 2-STAGE, PROVIDE RUBBERIZED WISHERS AT EACH FLOOR MOUNT TO ACT AS A SHOCK ABSORBER, SIZE MOUNT AS REQUIRED. PROVIDE LINE FILTERS AS REQUIRED, 3/4" BREAKERS
AR	AIR HOSE REEL					EQUAL TO REELCRAFT 7850 CLP 57 300 LOW PRESSURE HEAVY DUTY ALL STEEL CONSTRUCTION WITH ONE PIECE WRAP AROUND CHISEL ROLL
QD	QUICK DISCONNECT					VERIFY SIZE WITH WOOD MECHANIC MOUNT AT 48" A.F.F. ATTACH RIGIDLY TO GIRTS
SI	SINK	1/2"	1/2"	2"	2"	EQUAL TO AMERICAN STANDARD # 240B.332284.280 DOUBLE BOWL ADA SINK WITH STANDARD 4 HOLE PATTERN AND QUINCE FAUCET #4433.001 CHROME SPOUT, SWIVEL AERATOR AND SPRINGER, PROVIDE INSINKERATOR BADGER 5, 1/2 HP, 6.3 AMP, GARAGE DISPOSAL WITH WALL SWITCH
TD	TRENCH DRAIN			4"		EQUAL TO ACO #100 CHANNEL, SLOPE TRENCH DRAIN SYSTEM WITH TYPE 4410 DUCTILE QUICKLOC CAST IRON GRATE
CB	CATCH BASIN			4"		EQUAL TO ACO #900 CATCH BASIN, WITH PLASTIC TRASH BUCKET WITH TYPE 4410 DUCTILE QUICKLOC CAST IRON GRATE FOR LID
OS	OIL SEPARATOR			4"		EQUAL TO CHAMPION PRECAST INC. 1200 GALLON OIL & GREASE INTERCEPTOR STOCK STANDARD NO. 140-002100, HEAVY DUTY PRECAST CONCRETE, 11-20 LANDING, 8" CAST IRON FRAME, LID AND COLLAR, Pvc (S)30B4-3855



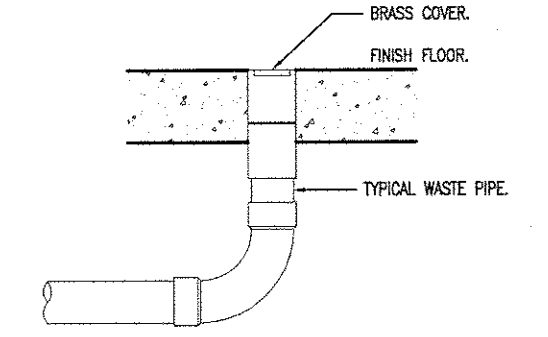
VENT THROUGH ROOF DETAIL

SCALE: NONE



FLOOR DRAIN DETAIL

SCALE: NONE

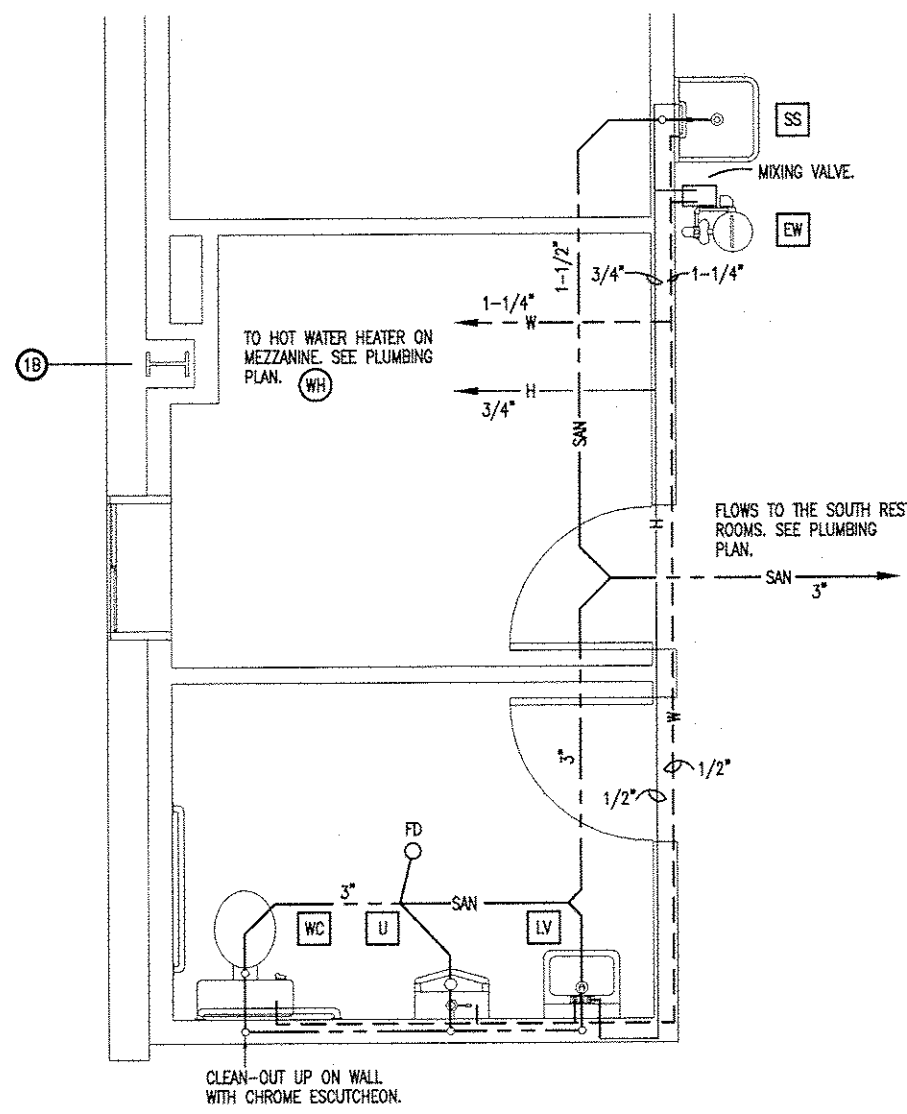


FLOOR CLEANOUT DETAIL

SCALE: NONE

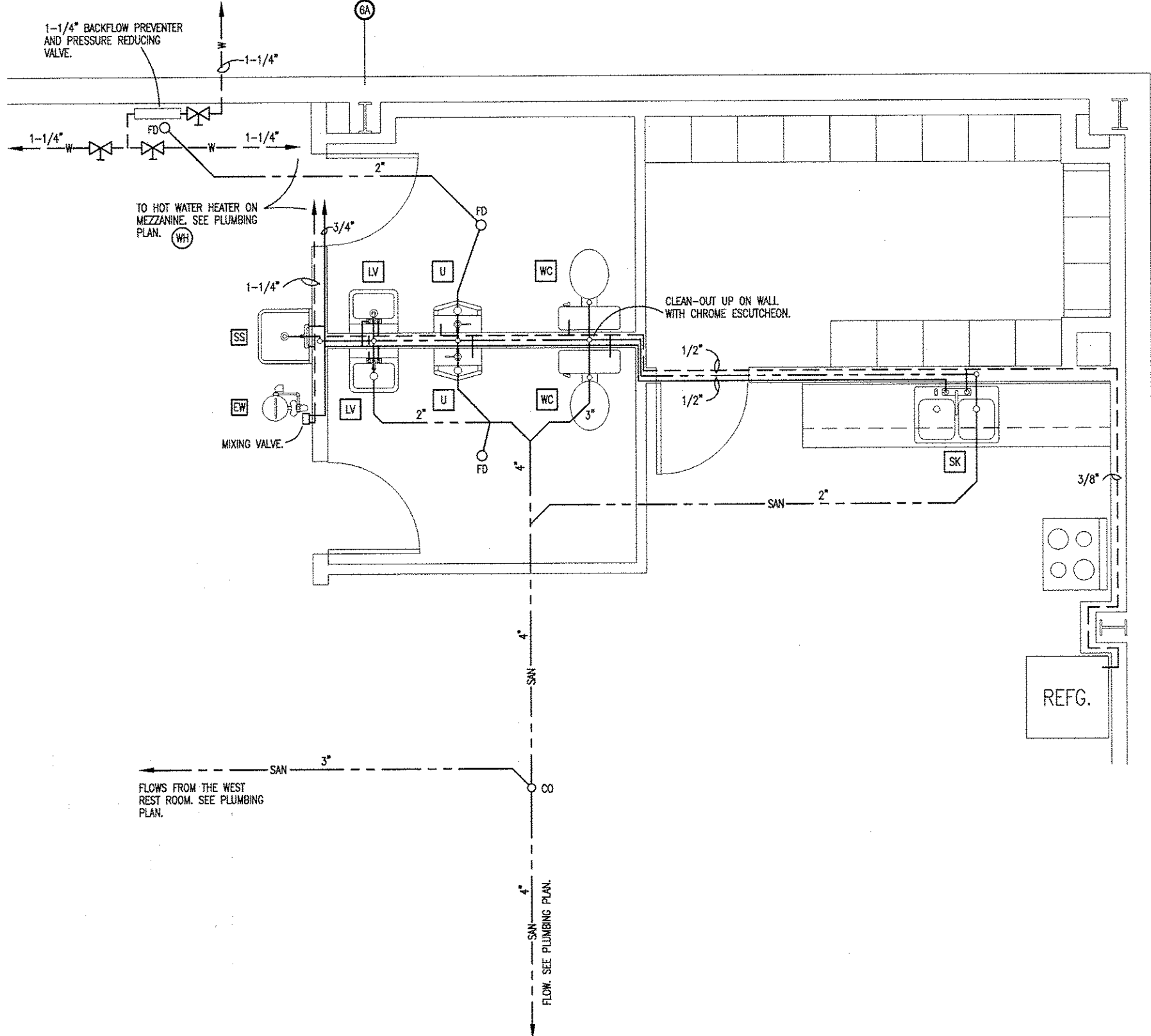
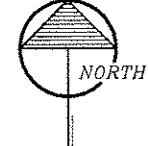
PLUMBING NOTES

- DRAWINGS AND DIAGRAMS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
- PLUMBING SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE LATEST EDITION OF THE INTERNATIONAL PLUMBING CODE.
- 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.
- PROVIDE PLUMBING EQUIPMENT AND ACCESSORIES REQUIRED FOR COMPLETE AND OPERATIONAL PLUMBING SYSTEMS AS REQUIRED BY MANUFACTURER'S INSTRUCTIONS AND DIRECTIONS FOR SYSTEMS SPECIFIED.
- PLUMBING VENTS ARE NOT SHOWN ON THE PLANS. ALL FIXTURES SHALL BE PROPERLY VENTED AS PER IPC PLUMBING CODE. VENT AS CLOSE AS POSSIBLE TO EXTERIOR WALLS.
- ROOF VENTS SHALL BE COVERED WHEREVER IN COMPLIANCE WITH THE NATIONAL PLUMBING CODE TO MINIMIZE ROOF PENETRATIONS.
- PROVIDE SHUT OFF VALVES AT EACH FIXTURE.
- PROVIDE SHOCK ABSORBERS AS REQUIRED AT EACH FAUCET.
- SEE MECHANICAL PLAN FOR GAS PIPING AND MECHANICAL REQUIREMENTS.
- CONTRACTOR TO PROVIDE CAST IRON VENT PIPING IN FLENUM AS REQUIRED BY CODE. SECURE AS REQUIRED.
- EXTERIOR BELOW GROUND WATER DISTRIBUTION PIPING SHALL RUN A MINIMUM OF 30" BELOW FINISH GRADE.
- CONTRACTOR TO PROVIDE 1-1/4" BACK FLOW PREVENTER AND PRESSURE REDUCING VALVE IN 105 MAINTENANCE AS REQUIRED.
- PROVIDE BLOCKING TO ALL FIXTURES AS REQUIRED FOR A SECURE APPLICATION.
- PROVIDE 3/8" COPPER WATER LINE TO REFRIGERATOR WITH SHUT-OFF AS REQUIRED FOR THE REFRIGERATOR'S ICE MAKER. SHUT-OFF TO BE INSIDE WALL COVERED BY HARP BRAND 8" x 8" HAND-DOZED PLASTIC ACCESS PANEL. WATER LINE TO BE THROUGH FINISHED WALL WITH CHROME ESCUTCHEON.



A REST ROOM PLUMBING PLAN

SCALE: 1/4" = 1'-0"



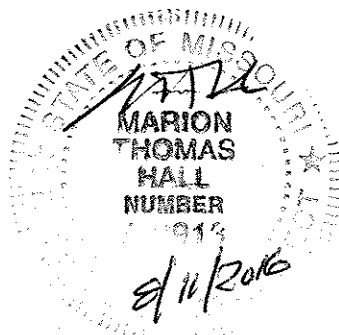
B REST ROOM PLUMBING PLAN

SCALE: 1/4" = 1'-0"



LEGEND

HOT WATER	H
WATER	W
SANITARY SEWER	SW
STORM	S
COMPRESSED AIR	A
GAS	G
CLEANOUT	C.O.
GAS VALVE	GV



REST ROOM PLUMBING PLAN

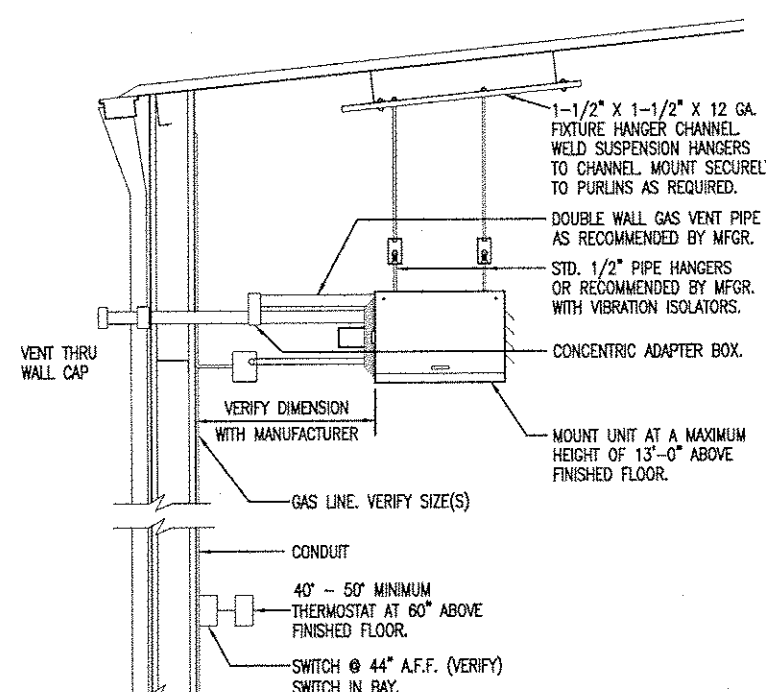
MISSOURI DEPARTMENT
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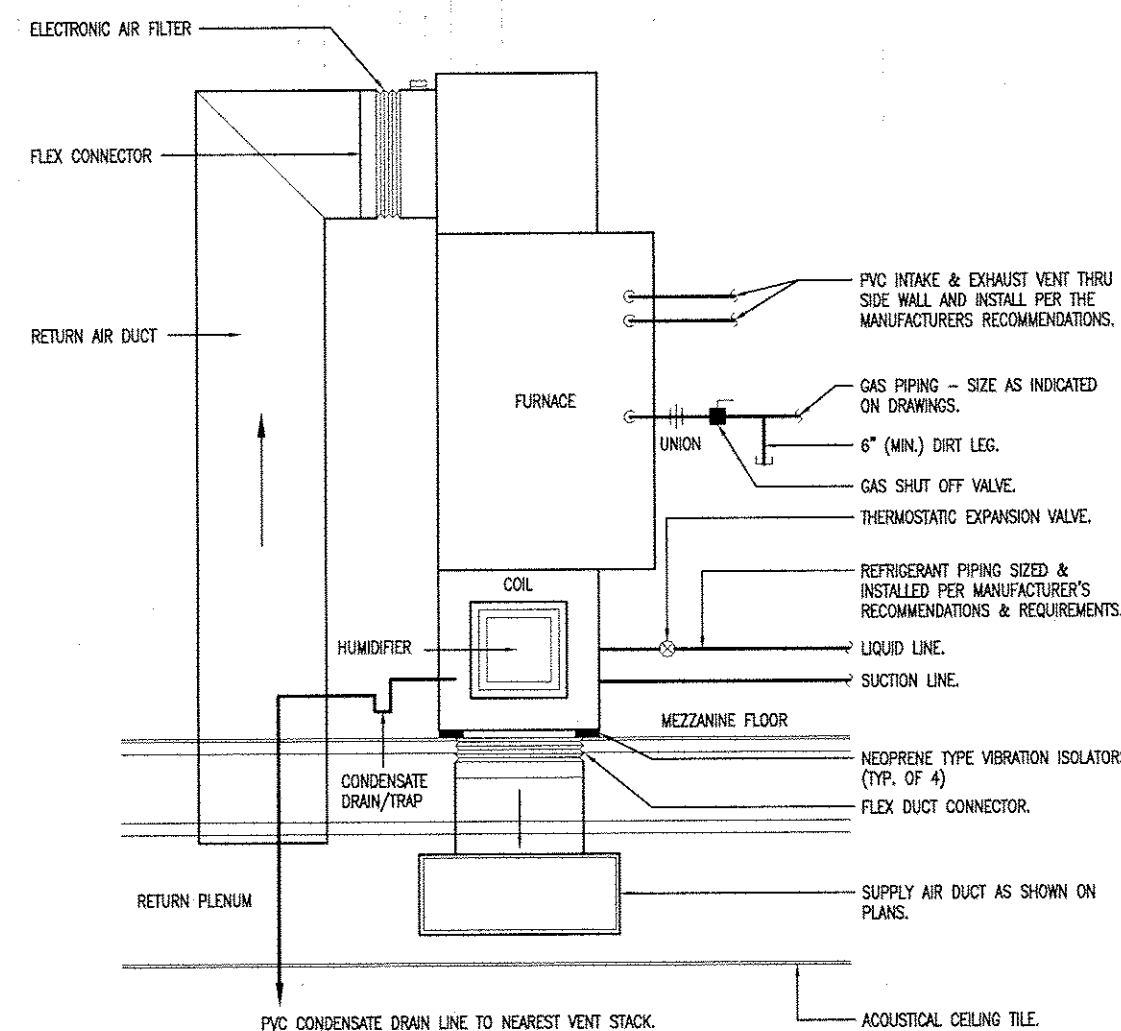
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DATE: 8-11-16
Sheet
16 of 20

MECHANICAL NOTES

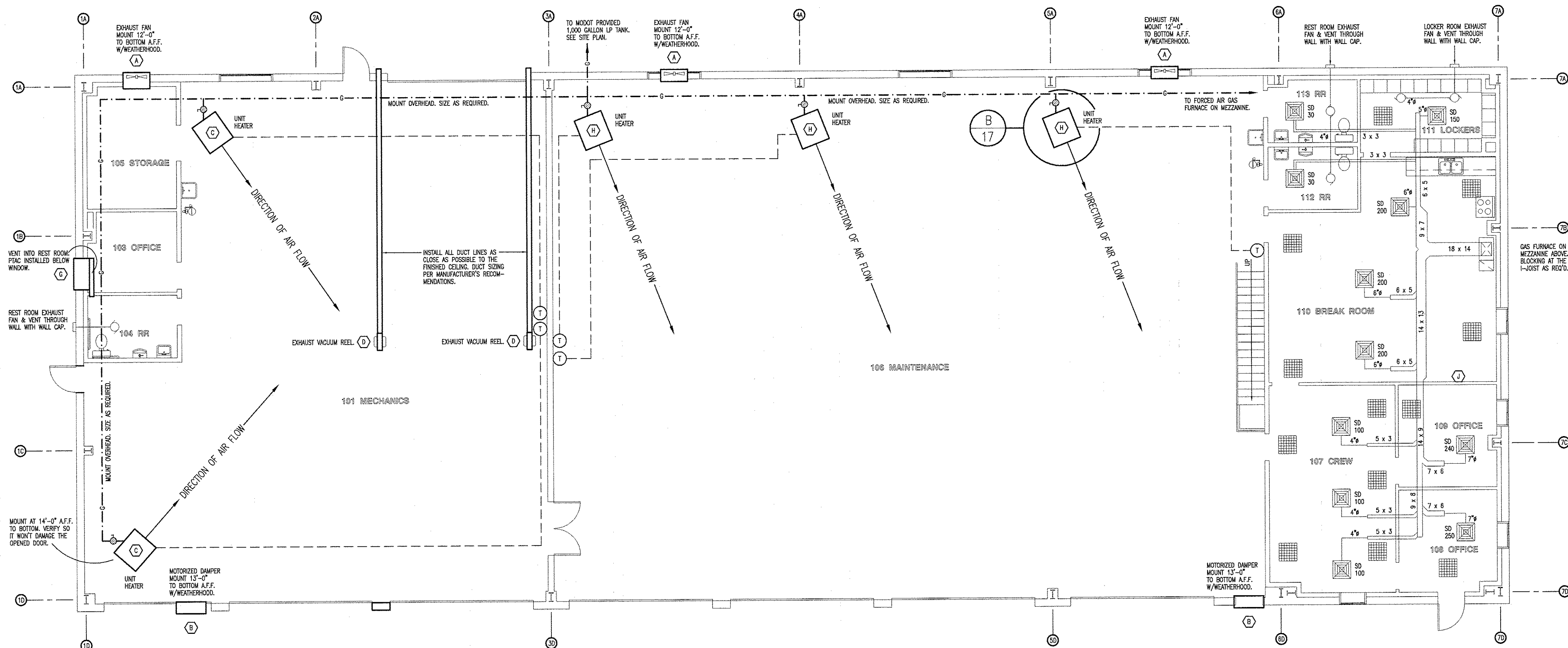
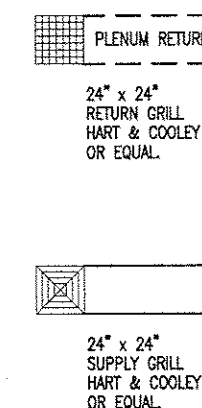
1. DRAWINGS AND DIAGRAMS ARE DIAGNOSTIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
2. MECHANICAL WORK SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE LATEST EDITION OF THE IBC MECHANICAL CODE.
3. PROVIDE EQUIPMENT AND APPURTENANCES NOT NECESSARILY SHOWN OR SPECIFIED BUT 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 BLOODING TO HAND DEVICES AS REQUIRED FOR A SECURE APPLICATION.
7. MECHANICAL CONTRACTOR TO PROVIDE ALL DEVICES REQUIRED FOR A FUNCTIONAL SYSTEM.



B
17
GAS FIRED UNIT HEATER
NOT TO SCALE



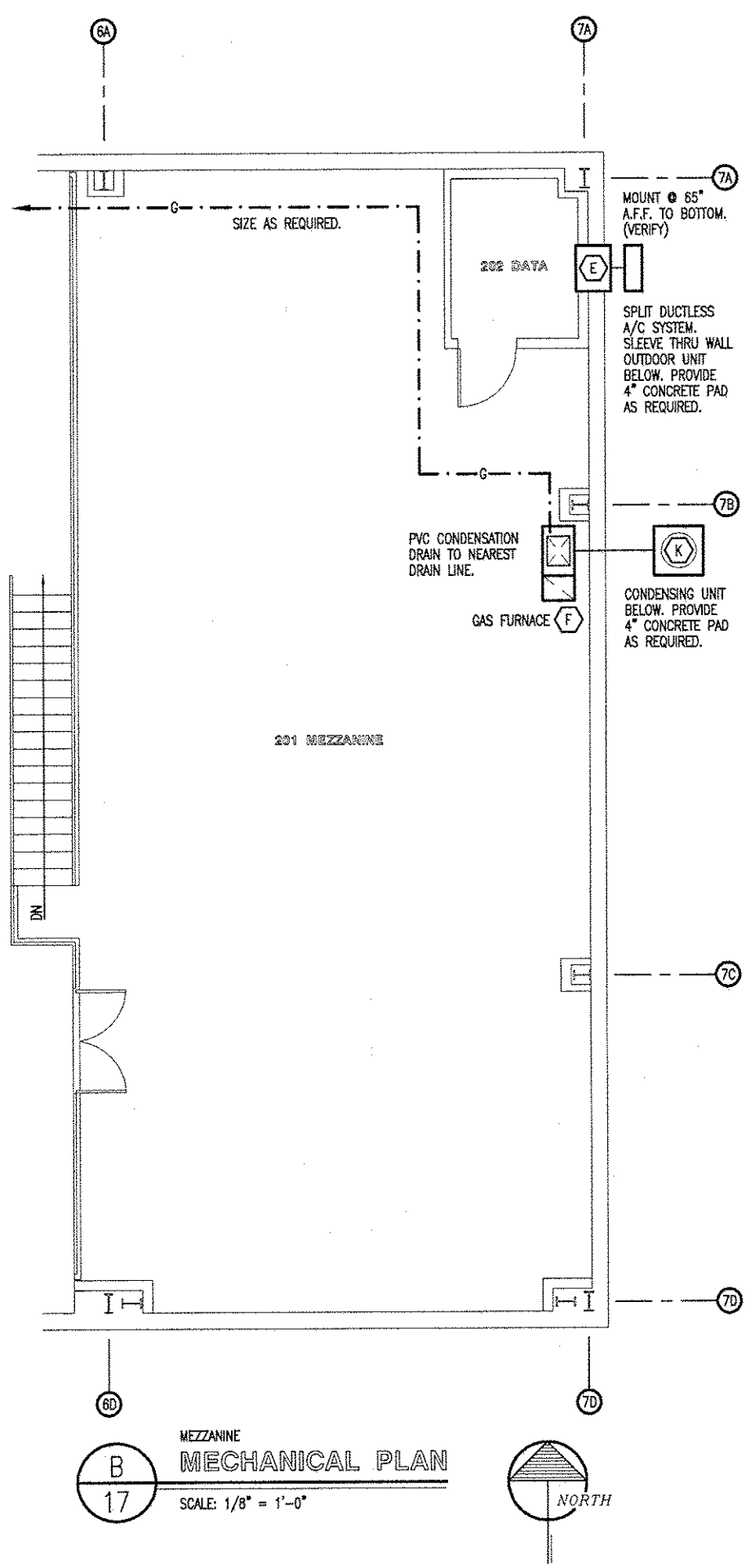
C
17
GAS FURNACE INSTALLATION
NOT TO SCALE



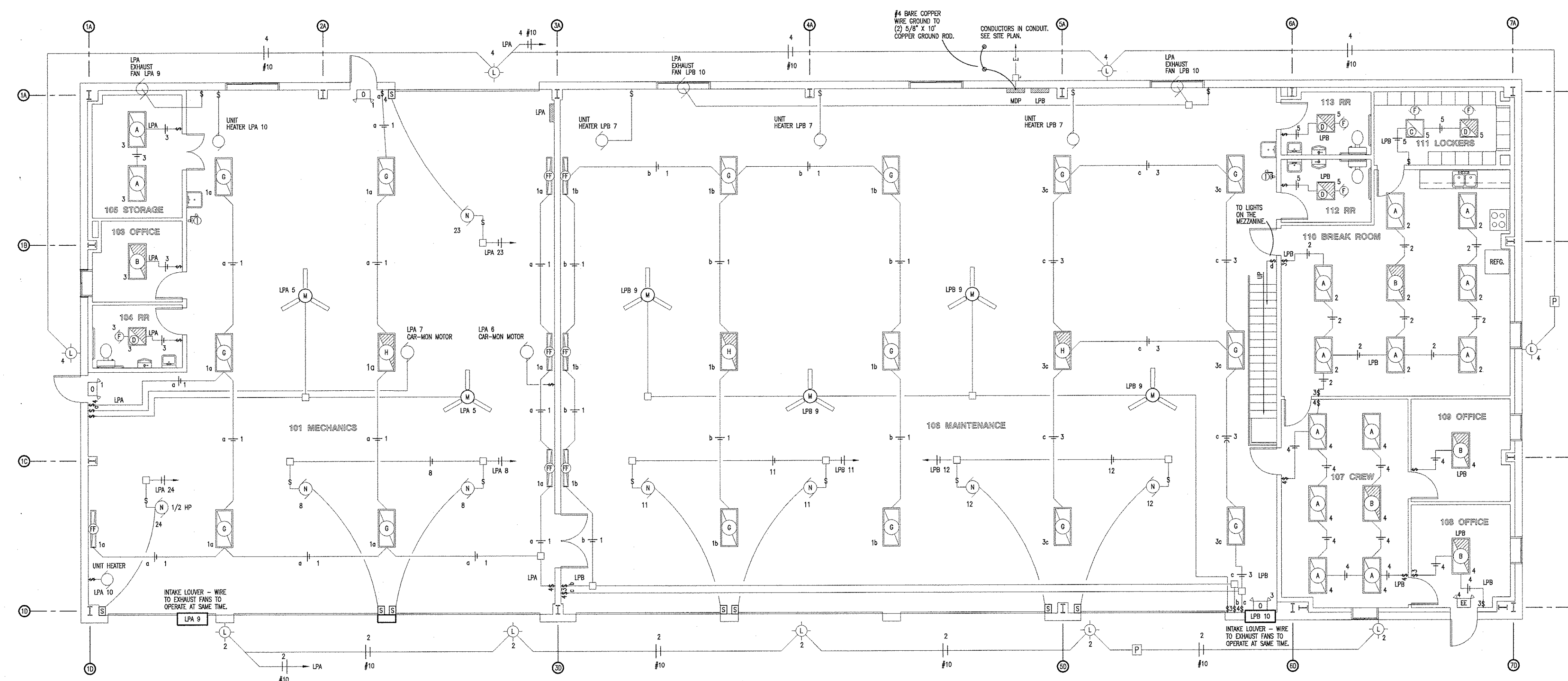
A
17
MECHANICAL PLAN
SCALE: 1/8" = 1'-0"



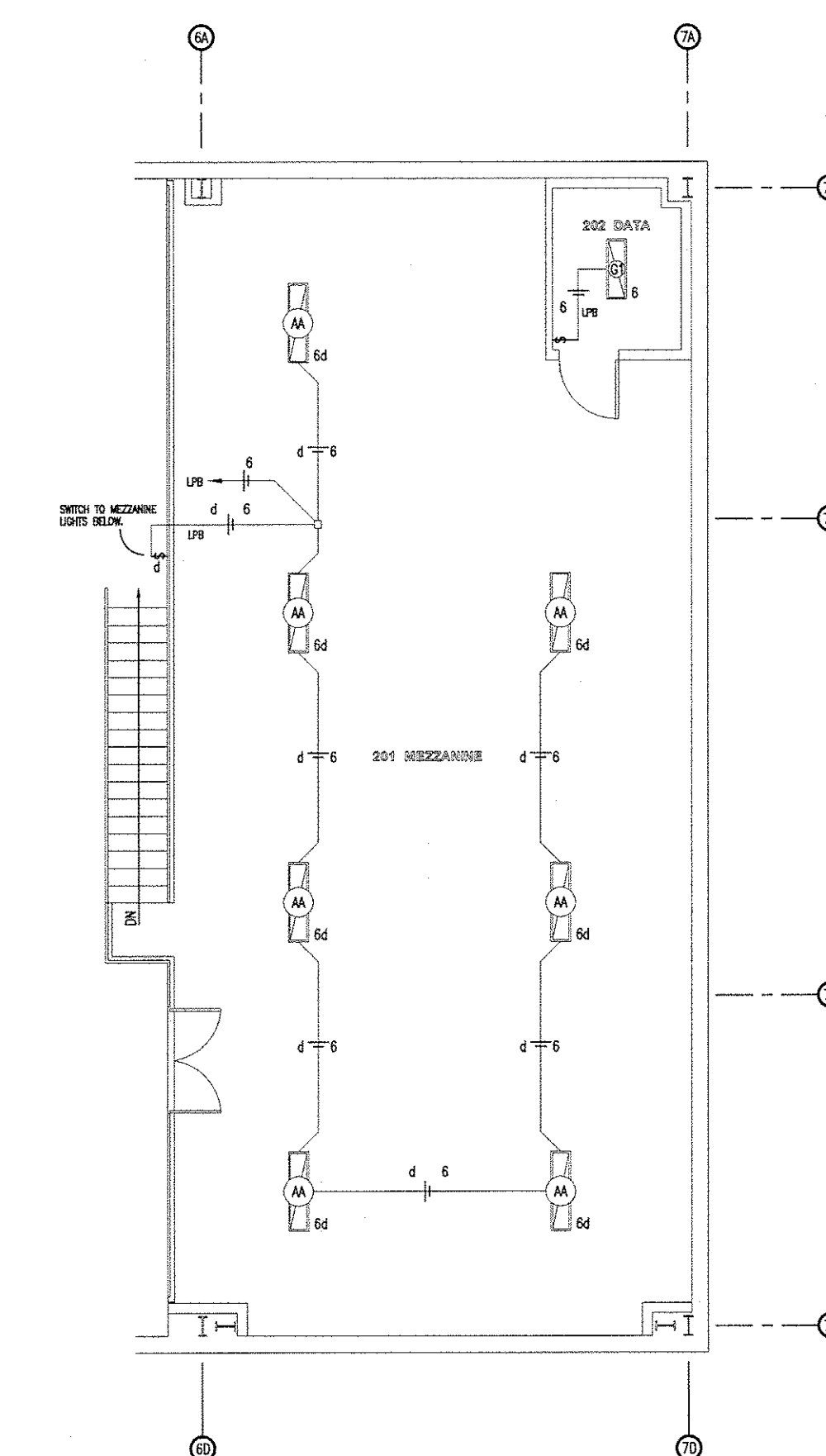
SEE SHEET 14 FOR HVAC
FIXTURE SCHEDULE.



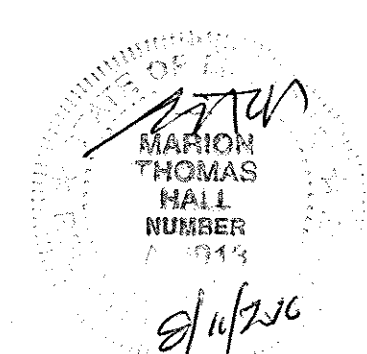
SEE ELECTRICAL SCHEDULE
& NOTES SHEET 20.



A
18
LIGHTING PLAN
SCALE: 1/8" = 1'-0"
NORTH



B
18
MEZZANINE
LIGHTING PLAN
SCALE: 1/8" = 1'-0"
NORTH



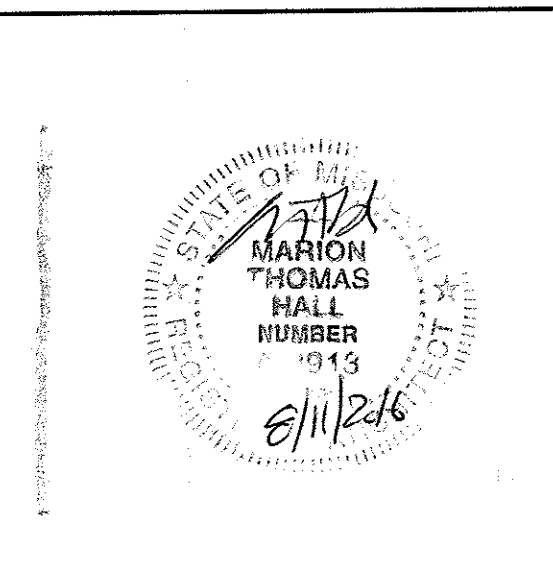
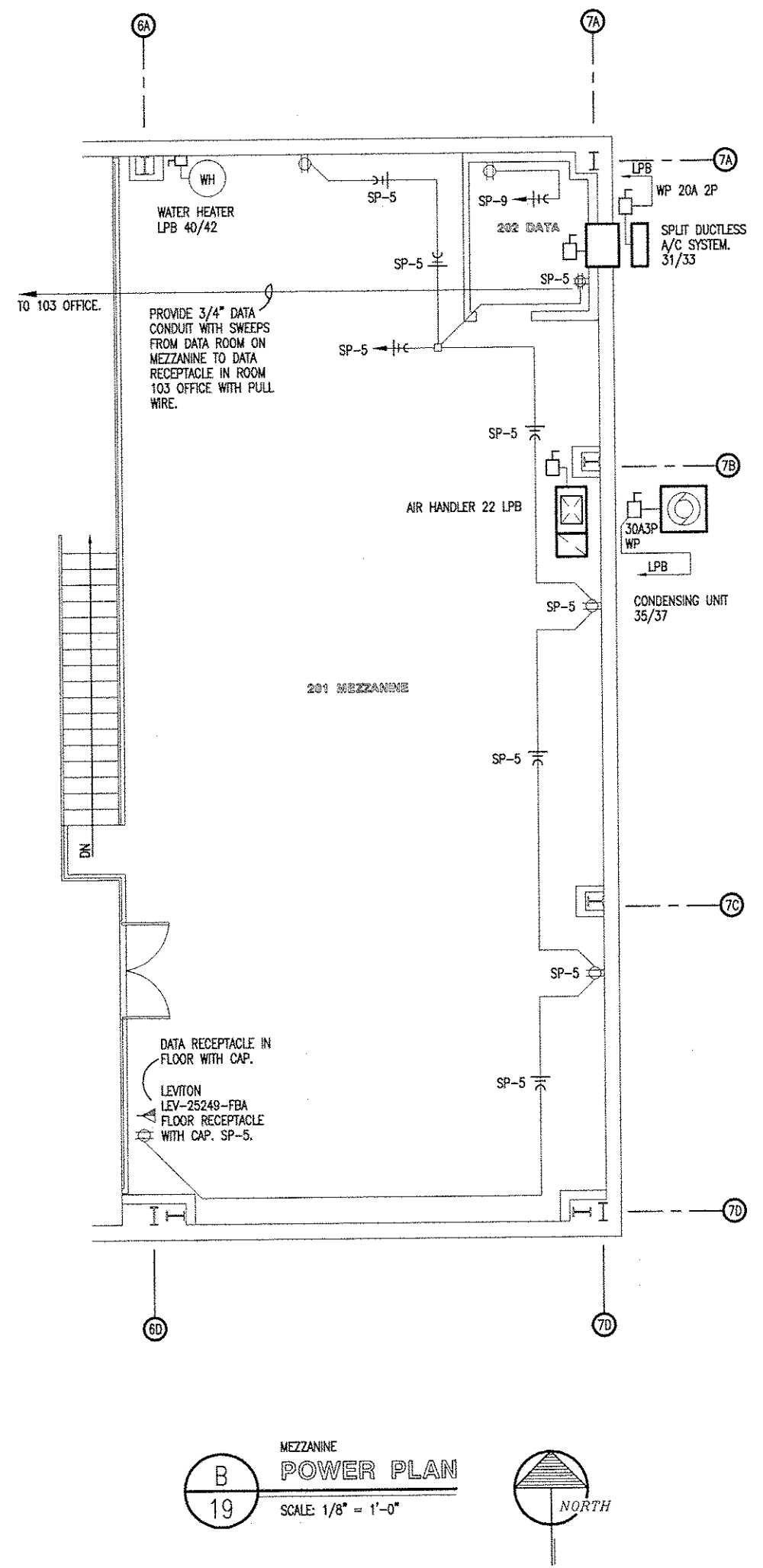
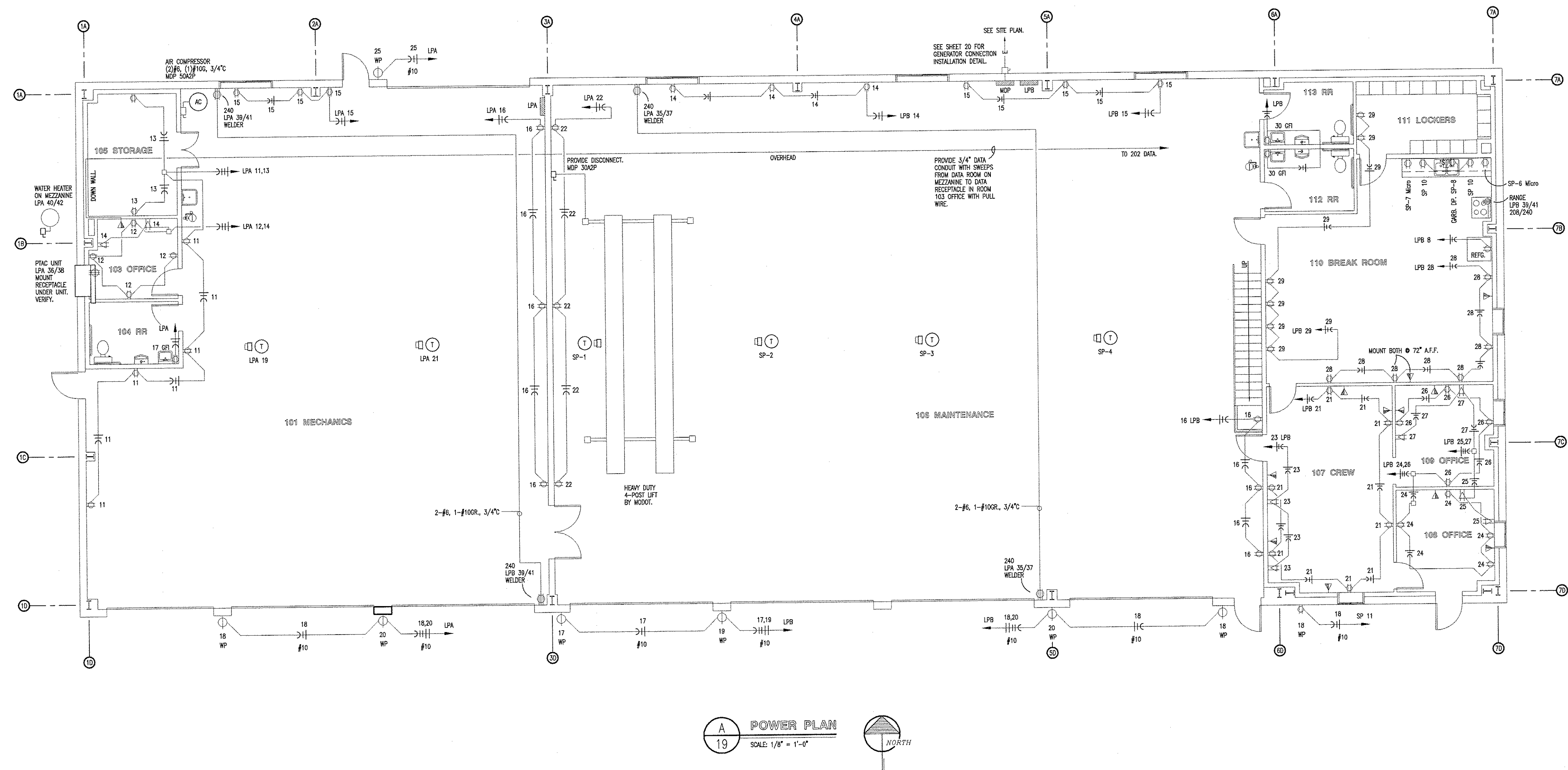
LIGHTING PLAN

MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

Linn Maintenance Building
Central District - Osage County
143 Commercial Drive, Linn, MO 65051

DESIGN BY: LARRY CARVER
DATE: 8-11-16
Sheet
18 of 20

SEE ELECTRICAL SCHEDULE
& NOTES SHEET 20.



POWER PLAN

MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

Linn Maintenance Building
Central District - Osage County
143 Commercial Drive, Linn, MO 65051

DESIGN BY: LARRY CARVER
DATE: 8-11-16
Sheet
19 of 20

ELECTRIC SCHEDULE					
MANUF.	MODEL	#	LAMPS TYPE	W	REMARKS
WILLIAMS	500-534-LEDPM/50/835- RPC12125-EDMUT-UNV	51	LED	51	24" x 48" STATIC TROFFER FIXTURE, HOUSING: 22 GAUGE DIE FORMED C.R.S. SHIELDING: FROSTED PATTERN #12
WILLIAMS	500-534-LEDPM/50/835- RPC12125-EM/BSJ10- EDMUT-UNV	51	LED	51	24" x 48" STATIC TROFFER FIXTURE, HOUSING: 22 GAUGE DIE FORMED C.R.S. SHIELDING: FROSTED PATTERN #12 & EMERGENCY DRIVER
WILLIAMS	500-522-LEDPM/30/85- RPC12125-EDMUT-UNV	25	LED	25	24" x 24" STATIC TROFFER FIXTURE, HOUSING: 22 GAUGE DIE FORMED C.R.S. SHIELDING: FROSTED PATTERN #12
WILLIAMS	500-522-LEDPM/30/85- RPC12125-EM/BSJ10- EDMUT-UNV	25	LED	25	24" x 24" STATIC TROFFER FIXTURE, HOUSING: 22 GAUGE DIE FORMED C.R.S. SHIELDING: FROSTED PATTERN #12 & EMERGENCY DRIVER
BROWN	GRANIER #5NP27				60 CFM CEILING MOUNT BATHROOM VENTILATOR, BROWN CAP, GRANIER #4C38.
WILLIAMS	QL-4-1200/840-WG11- DRV-UNV	174	LED	174	14-3/16" x 48" DIE-FORMED ALUMINUM HOUSING WITH WIRE GUARD.
WILLIAMS	QL-4-1200/840-EM/ BSJ10-WG11-DRV-UNV	174	LED	174	14-3/16" x 48" DIE-FORMED ALUMINUM HOUSING WITH WIRE GUARD, BACK MOUNTED EMERGENCY LED DRIVER.
COOPER	XT089ARL-N	82	LED	82	EXTERIOR, SURFACE MOUNT LIGHT FIXTURE, WITH ALUMINUM HOUSING, PRISMATIC GLASS LENS.
DAYTON	GRANIER #5NP23				SINGLE-SPEED, 48" THREE-SLIDE, HEAVY DUTY COMMERCIAL CEILING FAN.
	OVERHEAD DOOR OPERATOR				115V, 1-PH, TROLLEY TYPE SEE SPECIFICATION SECTION 08720, DOOR #2, 1/2 HP, ALL OTHERS 3/4 HP.
LITHONIA	LHQM P W3 R N				QUANTUM THERMOPLASTIC EXT/UNIT COMBO (2) LED 5.4 KRYPTON LAMPS.
TORX	2001				120V PHOTO ELECTRIC CONTROL OF EXTERIOR LIGHTS.
	OVERHEAD DOOR CONTROL				THREE BUTTON OVERHEAD DOOR CONTROL AS SUPPLIED BY OVERHEAD DOOR MANUF. SEE SPECIFICATION SECTION 08720.
REELCONVT	L 4050 183 1				CEILING MOUNTED SPRING RETRACTABLE, ELECT. CORD REEL WITH INCANDESCENT LAMP & THREE PUSHING OUTLET PLUGS.
WILLIAMS	75L-4-LEDPM50/835- AT12125-EDPM-UNV	51	LED	51	2-3/4" x 48" 22 GAUGE DIE-FORMED C.R.S. SHIELDING, ACRYLIC PATTERN #12, 1/25" THICK.
WILLIAMS	LED-4-146/830-10HFR- WET/2-SM8B-DRV-UNV	142	LED	142	15" x 48" LAMP LOCATION, FIBERGLASS HOUSING, FROSTED IMPACT-RESISTANT, SECURE LOCKING PLASTIC LATCHES.
PARVIMAY	PLEXIDUXUR				SOLID STATE 2-WIRE CHARGER, Ni-CAD BATTERY (2) LED LAMPS, 3.7 WATTS, 0.040 A.
CREE	LS4-40L-40K-10V-120	40	LED	40	2-5/8" x 48" SURFACE AMBIENT, 22 GAUGE, LOW-GLARE ACRYLIC LENS, WHITE.
CREE	LS4-25L-35K-10V-EB14	23	LED	23	2-1/2" x 48" SURFACE AMBIENT, 22 GAUGE, LOW-GLARE ACRYLIC LENS, WHITE, EMERGENCY BACKUP.
ELECTRICAL FIXTURES AND EQUIPMENT ARE SCHEDULED BY MANUFACTURER AND MODEL NUMBER FOR DESIGN INTENT ONLY, APPROVED EQUALS MAY BE SUBSTITUTED.					

LEGEND

- § WP SINGLE POLE OR 3-WAY SWITCH, MOUNT IN FS BOX WITH HUBBELL HBL7420 COVER.
- ⊙ WP DUPLEX RECEPTACLE MOUNTED IN FS BOX WITH HUBBELL HBL5221 COVER.
- ⊙ WP SINGLE RECEPTACLE MOUNTED IN FS BOX WITH HUBBELL HBL7423 COVER.
- § SINGLE POLE SWITCH, FLUSH MOUNTED IN FINISHED AREAS @ 48" A.F.F.
- 3 3-WAY SWITCH, SURFACE MOUNTED IN UNFINISHED AREAS @ 48" A.F.F.
- 4 4-WAY SWITCH, SURFACE MOUNTED IN FINISHED AREAS @ 48" A.F.F.
- ⊙ DUPLEX RECEPTACLE FLUSH MOUNTED IN FINISHED OFFICE, REST ROOMS AND BREAK ROOM @ 18" A.F.F. TO BOTTOM OF OUTLET.
- ⊙ DUPLEX RECEPTACLES IN WORK BAYS STORAGE, MEZZANINE AND EXTERIOR @ 48" A.F.F.
- ⊙ WELDER RECEPTACLE SURFACE MOUNTED 48" A.F.F., MOUNT IN 4" SQUARE BOX WITH RAISED COVER.
- ⊙ GFI DUPLEX RECEPTACLE WITH GROUND FAULT INTERRUPTER, PROVIDE SEPARATE GROUND FOR CIRCUIT, TYPICAL.
- JUNCTION BOX, SIZE FOR WIRE, FILL ACCORDING TO ARTICLE 314-16 OF THE N.E.C.
- NON FUSED DISCONNECT SWITCH.
- † DEDICATED RECEPTACLE FLUSH MOUNTED IN FINISHED AREAS @ 18" A.F.F. TO BOTTOM OF OUTLET.
- Y VOICE AND DATA OUTLET FLUSH MOUNTED IN FINISHED AREAS @ 18" A.F.F. TO BOTTOM OF OUTLET.
- #12 COPPER NEUTRAL CONDUCTOR UNLESS NOTED.
- #12 COPPER PHASE CONDUCTORS UNLESS NOTED.
- 1/2" CMF UNLESS NOTED.
- #12 COPPER GROUNDING CONDUCTOR UNLESS NOTED.

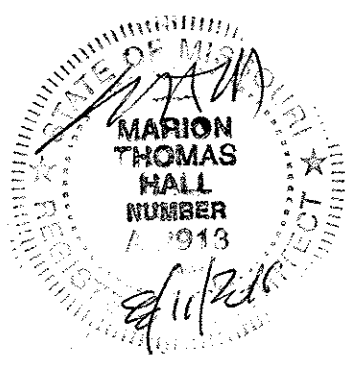
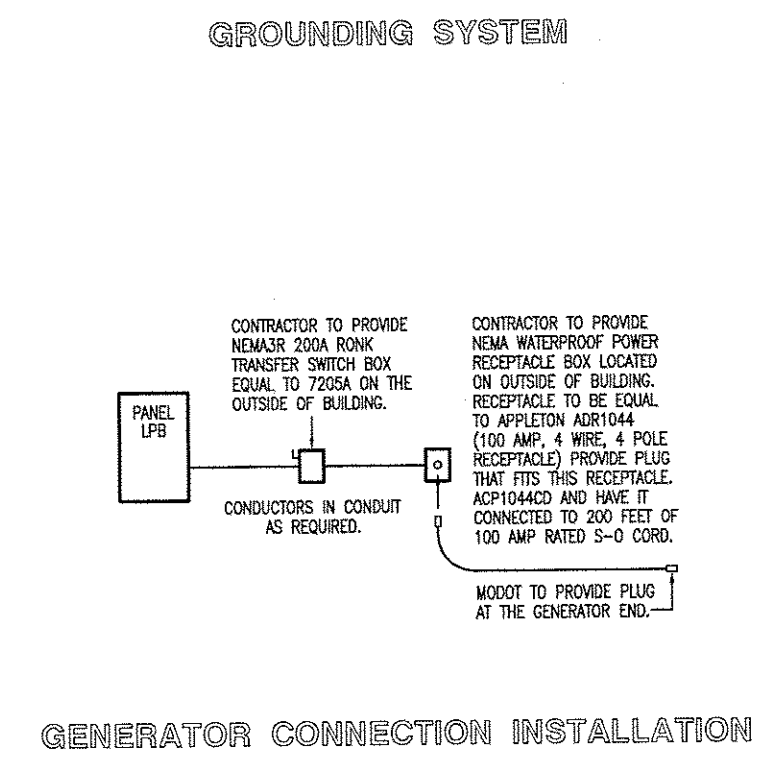
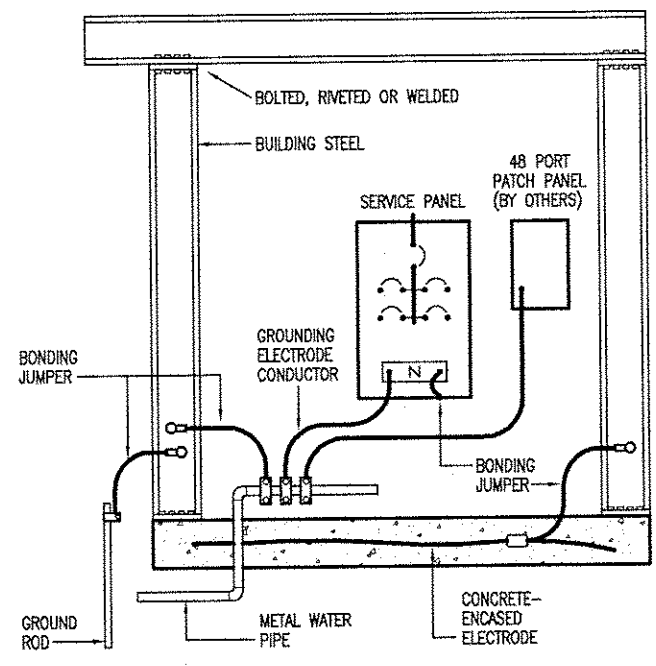
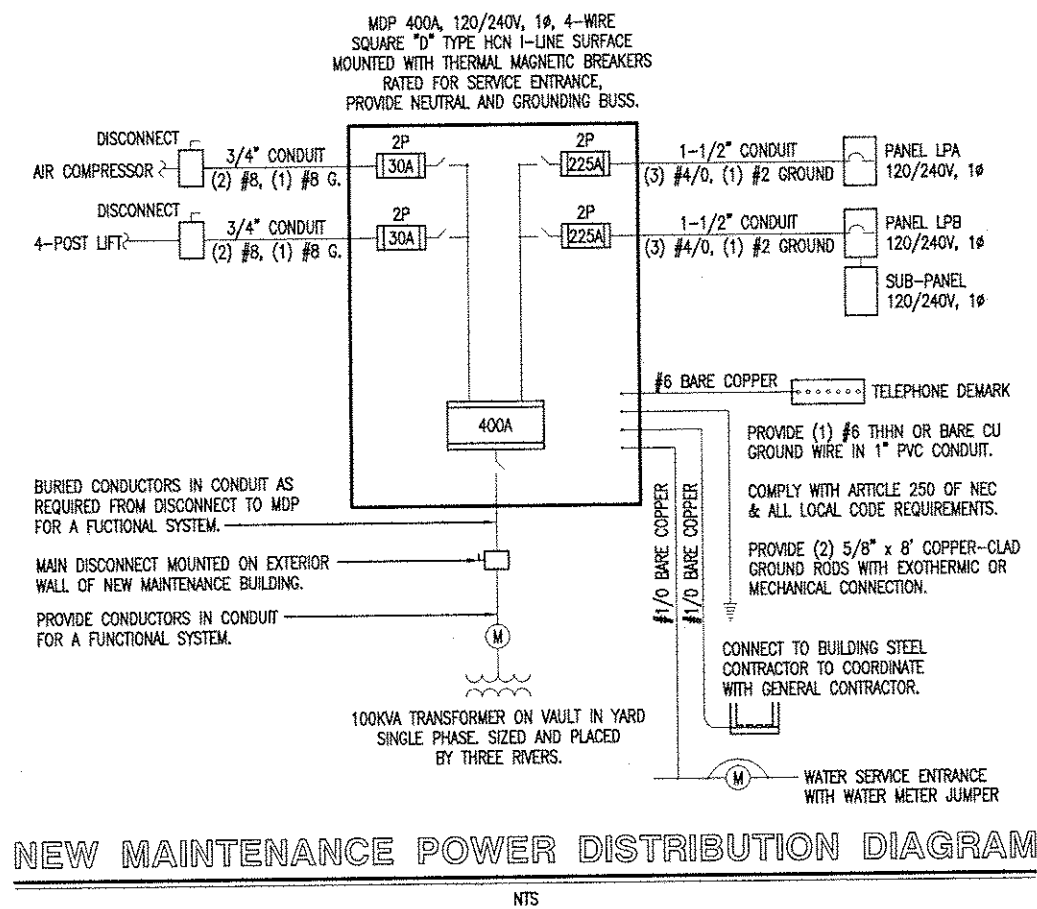
SERVICE PANEL LPA					
MAIN BUS: 225A MLO VOLTS: 240/120, 1PH, 4-WIRE BUS MATERIAL: COPPER MOUNTING SURFACE		SQUARE "D" NOOD OR EQUAL W/ NEUTRAL BUS & GROUNDING BUS CIRCUIT BREAKERS BOLT-IN 10000 AC		CONNECTED LOAD A PHASE 22310 VA B PHASE 25484 VA TOTAL 47794 VA 199 A	
OR SERVICE	VA	BKR	BKR	VA	OR
1 LIGHTS - 106 MECHANICS	1216	20A1P	A	20A1P 328	EXTERIOR LIGHTING 2
3 LIGHTS - 109 MAINTENANCE	229	20A1P	B	20A1P 328	EXTERIOR LIGHTING 4
5 LIGHTS/Ex Fans 111, 112, 113	156	20A1P	A	20A1P 1553	CARBON MONOXIDE 6
7 CARBON MONOXIDE	1553	20A1P	B	35A1P 3264	101 - GARAGE DOOR OPENERS 8
9 EXHAUST FAN & DAMPER	813	20A1P	A	20A1P 1224	101 - UNIT HEATERS 10
11 101 - RECEPTACLES	720	20A1P	B	20A1P 720	103 - RECEPTACLES 12
13 103 - RECEPTACLES	360	20A1P	A	20A1P 360	103 DEDICATED RECEPTACLES 14
15 101 - RECEPTACLES	540	20A1P	B	20A1P 540	101 - RECEPTACLES 16
17 104 - GFI RECEPTACLE	180	20A1P	A	20A1P 1000	EXTERIOR RECEPTACLE 18
19 101 CORD REEL	540	20A1P	B	20A1P 1000	EXTERIOR RECEPTACLE 20
21 101 CORD REEL	540	20A1P	A	20A1P 540	106 - RECEPTACLES 22
23 101 - GARAGE DOOR OPENER	1632	20A1P	B	20A1P 1288	101 - GARAGE DOOR OPENER 24
25 EXTERIOR RECEPTACLE	1000	20A1P	A		
27					
29					
31					
33					
35 106 - WELDER MECHANICS	4500	50A2P	B	20A2P 1440	PTAC UNIT 36
37	4500	A		1440	
39 101 - WELDER MECHANICS	4500	50A2P	B	30A2P 2600	WATER HEATER 40
41	4500	A		2600	

● CIRCUIT BREAKER SHALL BE GFI RATED

SERVICE PANEL LPB					
MAIN BUS: 225A MLO VOLTS: 240/120, 1PH, 4-WIRE BUS MATERIAL: COPPER MOUNTING SURFACE		SQUARE "D" NOOD OR EQUAL W/ NEUTRAL BUS & GROUNDING BUS CIRCUIT BREAKERS BOLT-IN 10000 AC		CONNECTED LOAD A PHASE 25235 VA B PHASE 28812 VA TOTAL 53847 VA 224 A	
OR SERVICE	VA	BKR	BKR	VA	OR
1 LIGHTS - 106 MAINTENANCE	1164	20A1P	A	20A1P 255	LIGHTS - OFFICES & HALLWAY 2
3 LIGHTS - 109 MAINTENANCE	1050	20A1P	B	20A1P 408	LIGHTS - BREAK ROOM 4
5 LIGHTS/Ex Fans 111, 112, 113	124	20A1P	A	20A1P 357	LIGHTS - MEZZANINE 6
7 106 - UNIT HEATERS	1368	20A1P	B	20A1P 720	REFRIGERATOR 8
9 106 - CEILING FANS	312	20A1P	A	20A1P 1581	EXHAUST FANS & DAMPER 10
11 106 - GARAGE DOOR OPENERS	3264	35A1P	B	35A1P 3264	106 - GARAGE DOOR OPENERS 12
13 106 - GARAGE DOOR OPENER	1632	20A1P	A	20A1P 540	106 - RECEPTACLES 14
15 106 - RECEPTACLES	540	20A1P	B	20A1P 540	106 - RECEPTACLES 16
17 EXTERIOR RECEPTACLE	1000	20A1P	A	20A1P 1000	EXTERIOR RECEPTACLE 18
19 EXTERIOR RECEPTACLE	1000	20A1P	B	20A1P 1000	EXTERIOR RECEPTACLE 20
21 107 - CROW RECEPTACLES	1080	20A1P	A	20A1P 912	AIR HANDLER 22
23 107 DEDICATED RECEPTACLES	360	20A1P	B	20A1P 720	106 RECEPTACLES 24
25 108 DEDICATED RECEPTACLES	360	20A1P	A	20A1P 720	109 RECEPTACLES 26
27 109 DEDICATED RECEPTACLES	360	20A1P	B	20A1P 900	110 RECEPTACLES 28
29 110,111 RECEPTACLES	720	20A1P	A	20A1P 360	REST ROOM GFTS 30
31 SPLIT DUCTLESS A/C	1456	50A2P	B	50A2P 4256	SUB-PANEL-SP 32
33	1456	A		4256	
35 AIR CONDENSER	1456	50A2P	B		SPACE 36
37	1456	A			SPACE 38
39 RANGE	3350	40A2P	B	30A2P 2600	WATER HEATER 40
41	3350	A		2600	

● CIRCUIT BREAKER SHALL BE GFI RATED

SUB-PANEL: SP - Located Below LPB					
MAIN BUS: 100A MLO VOLTS: 240/120, 1PH, 4-WIRE BUS MATERIAL: COPPER MOUNTING SURFACE		SQUARE "D" NOOD OR EQUAL		CONNECTED LOAD A PHASE 3800 VA B PHASE 4712 VA TOTAL 8512 VA 35 A	
OR SERVICE	VA	BKR	BKR	VA	OR
1 106 CORD REEL	540	20A1P	A	20A1P 540	106 CORD REEL 2
3 106 CORD REEL	540	20A1P	B	20A1P 540	106 CORD REEL 4
5 MEZZANINE RECEPTACLES	1080	20A1P	A	20A1P 1100	MICROWAVE - NORTH 6
7 MICROWAVE - SOUTH	1100	20A1P	B	20A1P 872	GARAGE DISPOSAL 8
9 GPS	180	20A1P	A	20A1P 360	110 GFTS 10
11 EXTERIOR ICE MACHINE	1560	20A1P	B		SPACE 12



Electrical Panels & Schedules

MISSOURI DEPARTMENT
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20 of 20