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MISSOURI DEPARTMENT
OF TRANSPORTATION

KING CITY
Maintenance Building
Northwest District
9990 Highway 169, King City, MO 64463
DeKalb County

CODE REQUIREMENTS

BUILDING CODE: ANALYSIS BASED ON 2013 INTERNATIONAL BUILDING CODE
2013 INTERNATIONAL PLUMBING CODE
2013 INTERNATIONAL MECHANICAL CODE
2013 NATIONAL ELECTRICAL CODE

USE GROUP: B (BUSINESS)
S-1 (MODERATE HAZARD STORAGE)

DESIGNED AS NON-SEPERATED USE GROUPS

CONSTRUCTION TYPE: VB COMBUSTIBLE, NON PROTECTED

ALLOWABLE AREA: 9000 SF
BUSINESS: 1000 SF
STORAGE: 8000 SF

ALLOWABLE HEIGHT: 2 STORY
PROPOSED HEIGHT: 1 STORY

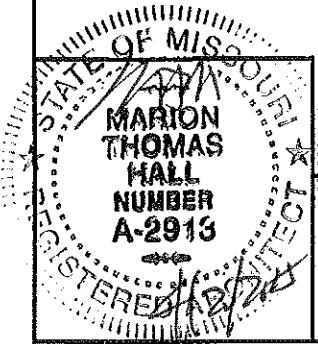
OCCUPANT LOAD:
BUSINESS: 1000SF/100SF PER OCCUPANT = 10 OCCUPANTS
STORAGE: 8000SF/4000SF PER OCCUPANT = 2 OCCUPANTS
TOTAL: 12 OCCUPANTS

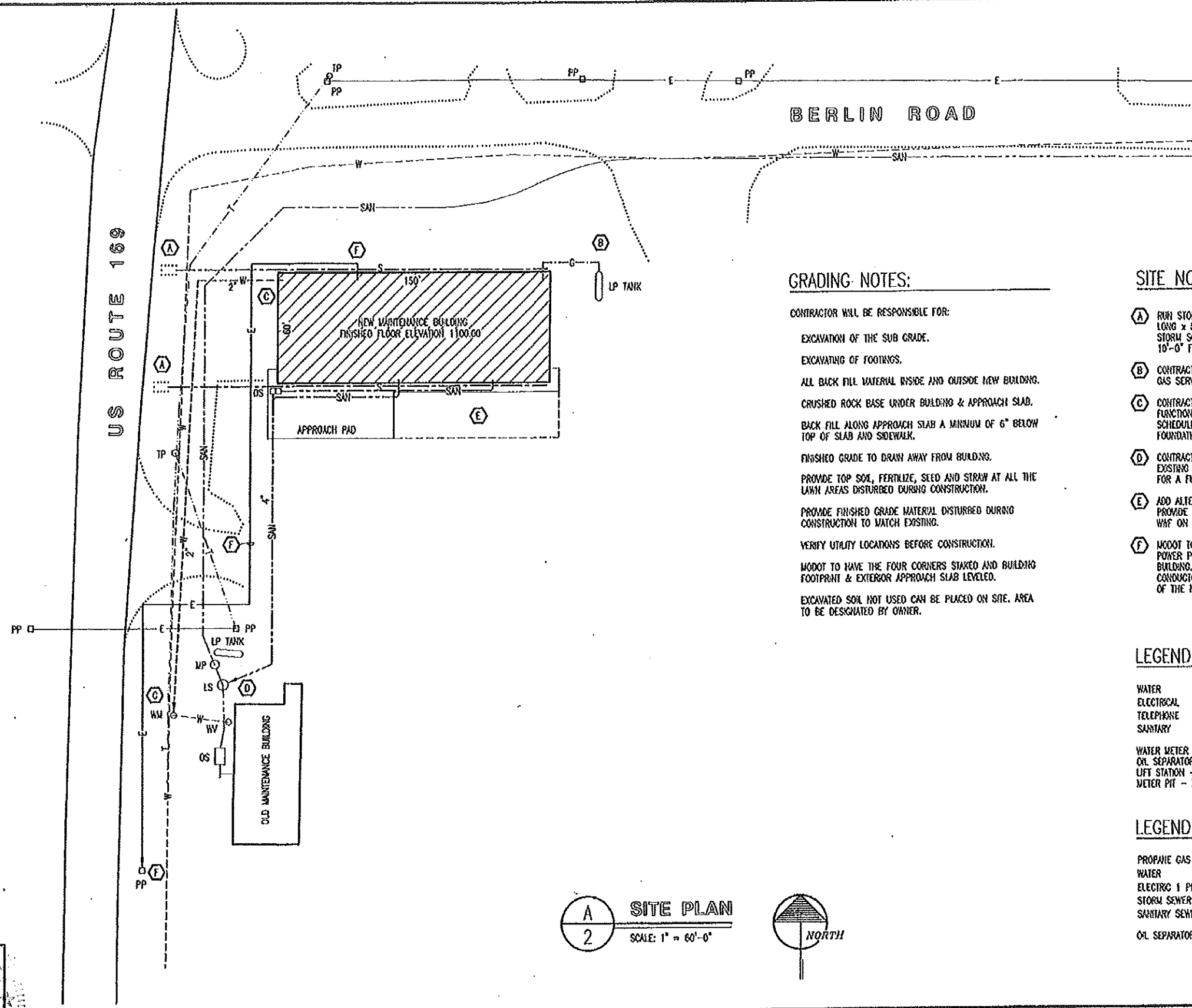
COVER SHEET

MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

King City Maintenance Building
9990 Highway 169, King City, MO 64463
Northwest District - DeKalb County

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DATE: 4-17-2013
Sheet
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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 LEVELED.
- 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 8'-0" LONG x 5'-0" x 12" DEEP RIP-RAP. SEE PLUMBING PLAN FOR THE STORM SCHEDULE 35 PVC SIZE(S). CHANGE TO SCHEDULE 40 PVC 10'-0" FROM DAYLIGHTING.
- (B) CONTRACTOR TO MAKE CONNECTION AS REQUIRED FOR AN OPERABLE GAS SERVICE FROM EXISTING 1,000 GALLON PROPANE TANK.
- (C) CONTRACTOR TO MAKE 2" WATER CONNECT AS REQUIRED FOR A FUNCTIONAL SERVICE IN AN EXISTING WATER METER PIT. PROVIDE 2" SCHEDULE 80 TO NEW BUILDING. CHANGE TO 2" COPPER THROUGH FOUNDATION WALL AND INTO NEW BUILDING.
- (D) CONTRACTOR TO INSTALL 4" PVC SANITARY SEWER LINE TO AN EXISTING LIFT STATION THAT HAS A TAP FOR THIS NEW BUILDING FOR A FUNCTIONAL SERVICE.
- (E) ADD ALTERNATE: PROVIDE 90' x 25' x 6" CONCRETE SLAB WITH 6 x 6-W2.1 x W2.1 W/ 4" CRUSHED ROCK BASE.
- (F) MODOT TO HAVE IN PLACE A 400A DISCONNECT AND METER AT A POWER POLE (PP) LOCATED 50'± SOUTHWEST OF THE OLD MAINTENANCE BUILDING. THE CONTRACTORS WORK TO BEGIN FROM THAT POINT WITH CONDUCTORS IN CONDUIT TO THE (MDP) LOCATED ON THE NORTH SIDE OF THE NEW MAINTENANCE BUILDING.

LEGEND (EXISTING)

WATER	---	W---
ELECTRICAL	---	E---
TELEPHONE	---	T---
SANITARY	---	SAN---
WATER METER - WM		WATER VALVE - WV
ON. SEPARATOR - OS		TELEPHONE PEDESTAL - TP
LIFT STATION - LS		POWER POLE - PP
METER PIT - MP		

LEGEND (NEW)

PROPANE GAS	---	G---
WATER	---	W---
ELECTRIC 1 PHASE	---	E---
STORM SEWER	---	S---
SANITARY SEWER	---	SAN---
ON. SEPARATOR - OS		

A
2 **SITE PLAN**
SCALE: 1" = 60'-0"



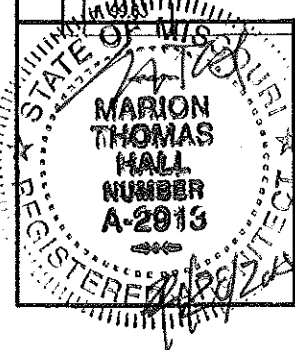
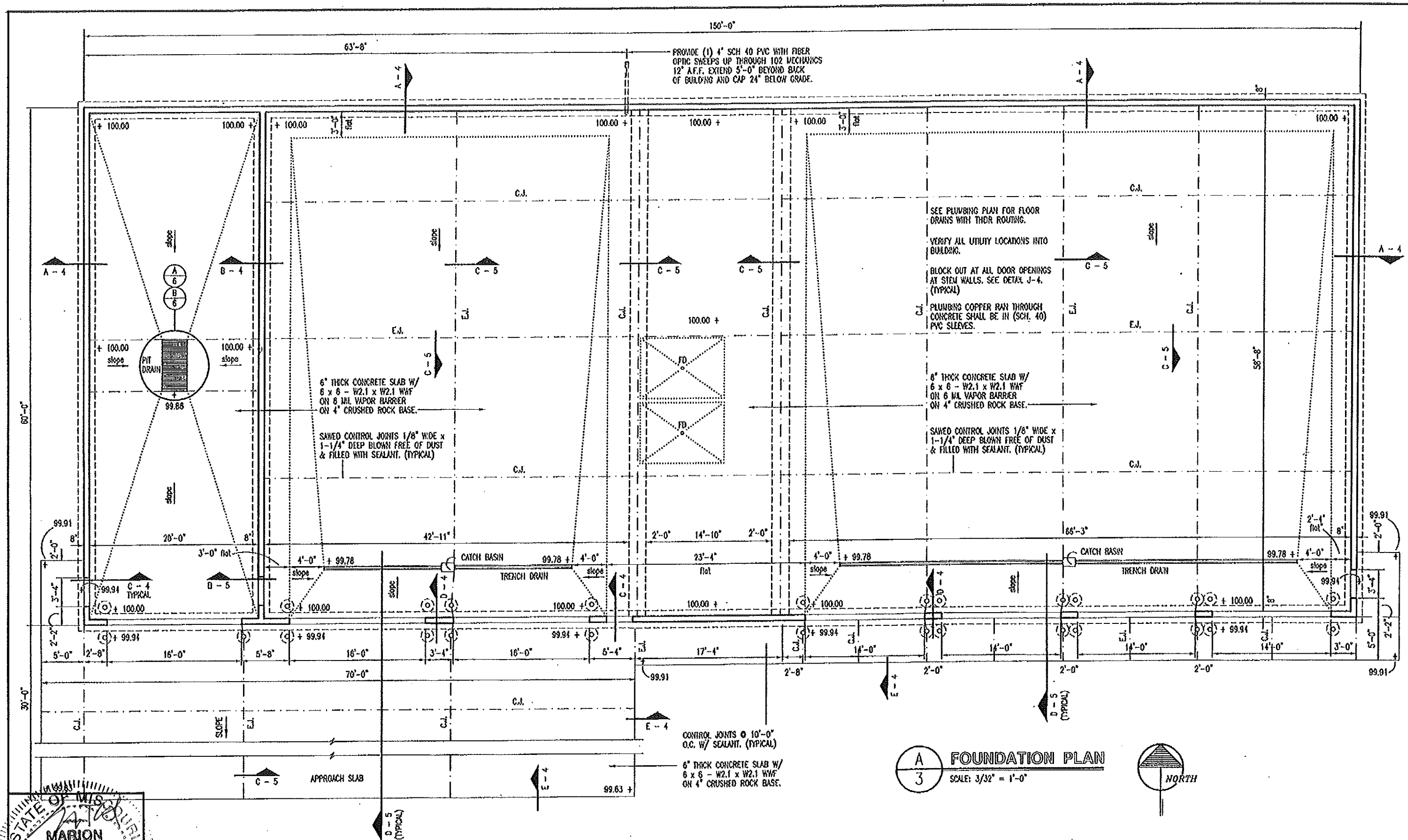
SITE PLAN

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FACILITIES MANAGEMENT

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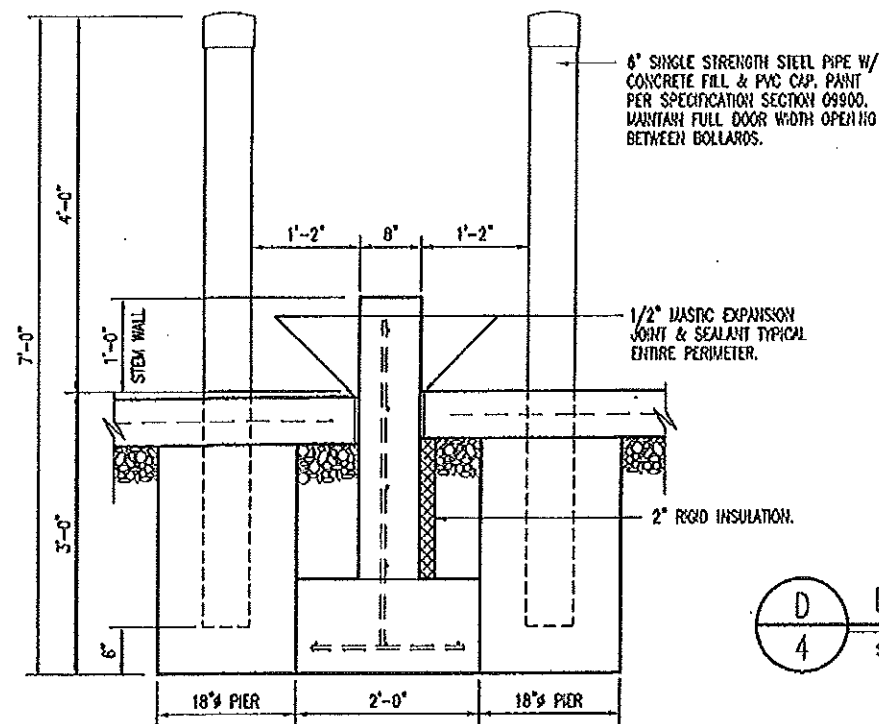


FOUNDATION PLAN

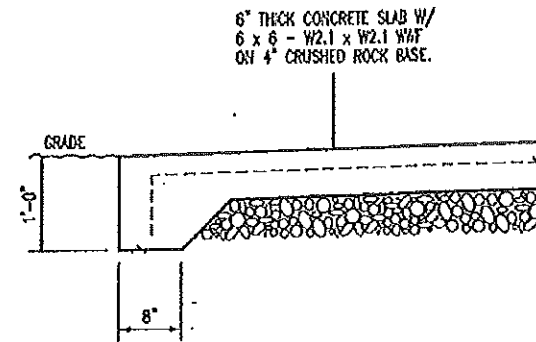
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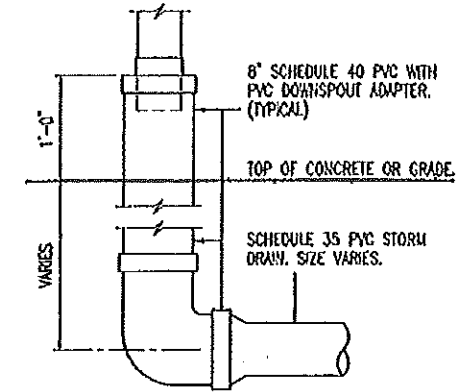
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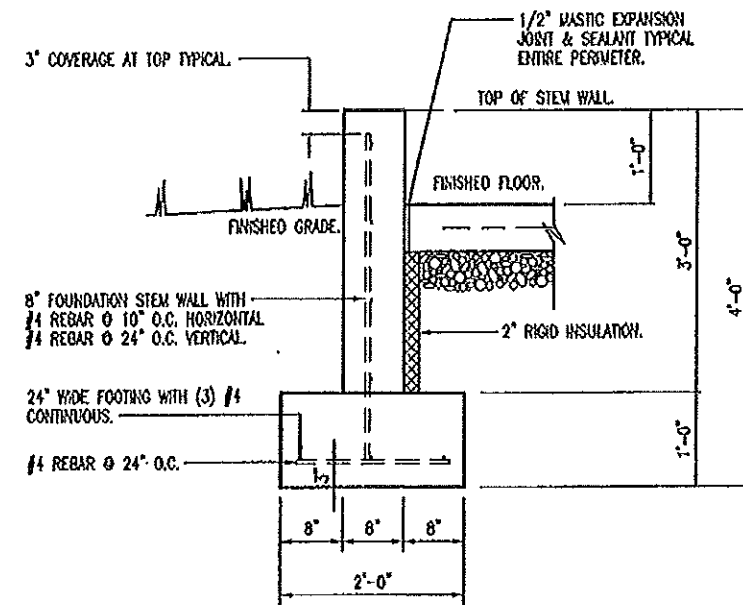
D
4
BOLLARD @ FOOTING DETAIL
SCALE: 1/2" = 1'-0"



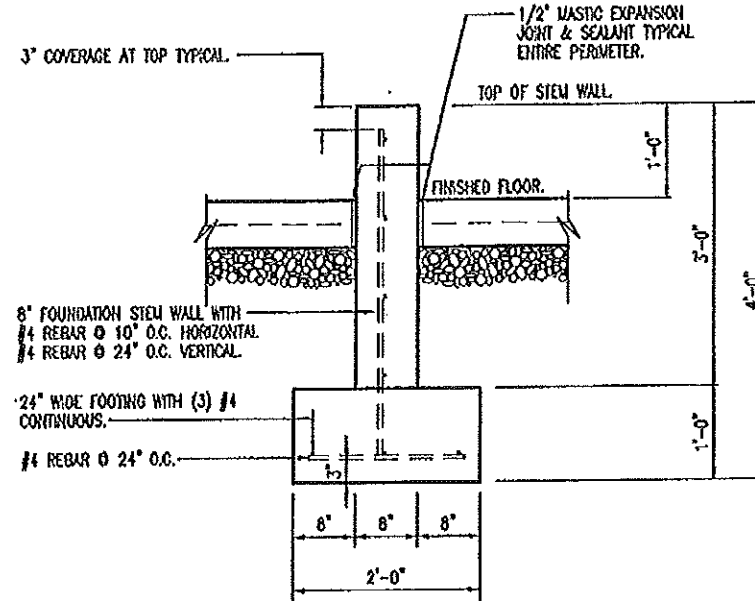
E
4
SIDEWALK SECTION
SCALE: 1/2" = 1'-0"



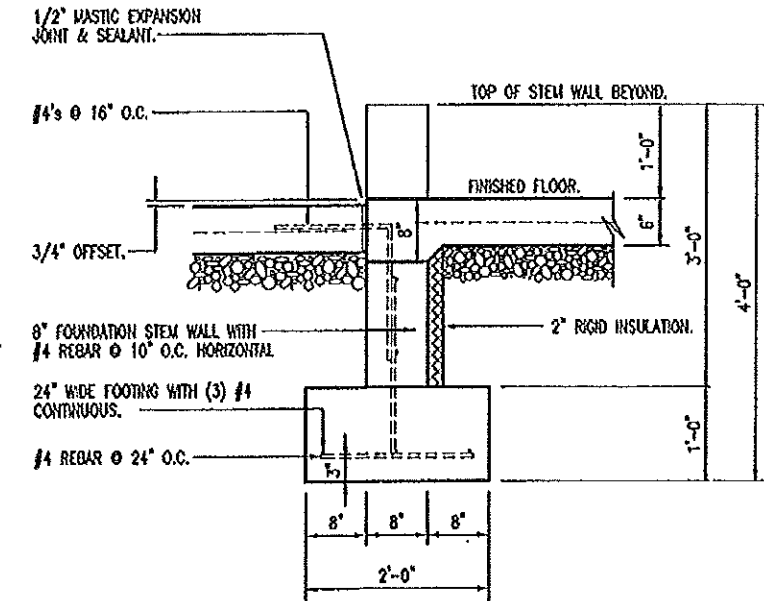
F
4
DOWNSPOUT ADAPTER
SCALE: N.T.S.



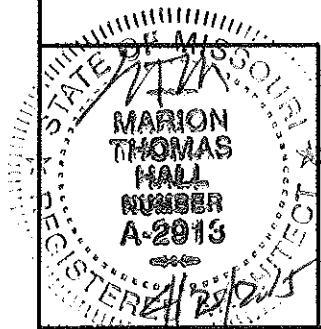
A
4
STEM WALL
SCALE: 1/2" = 1'-0"



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



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



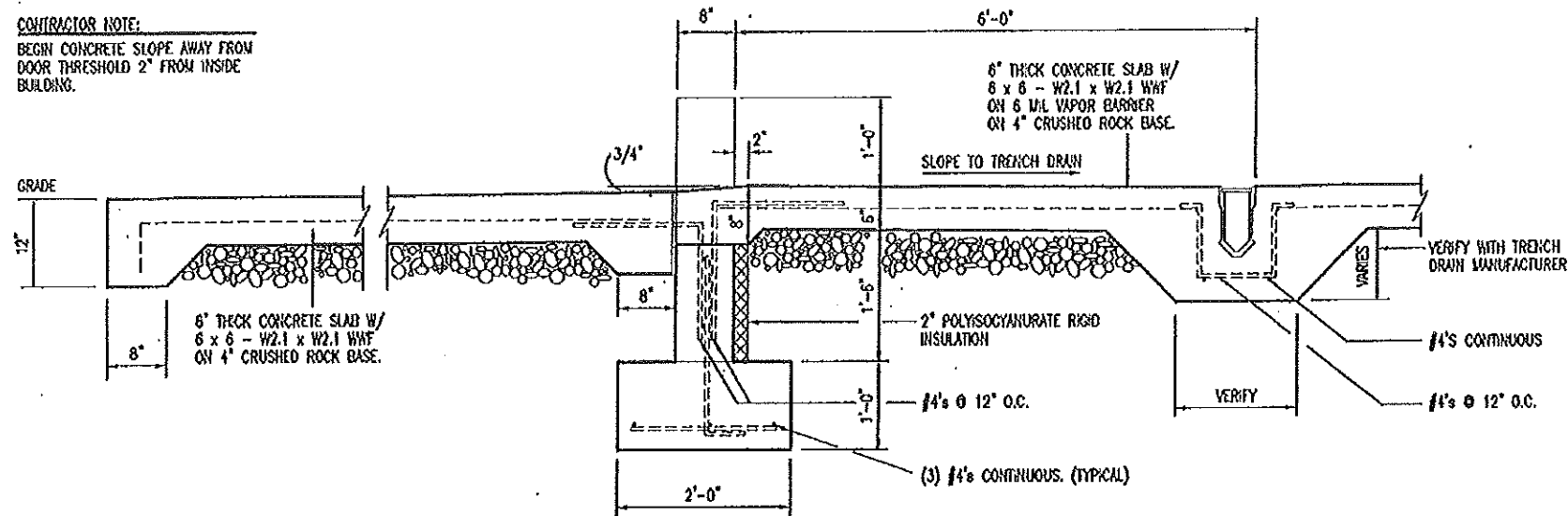
FOUNDATION DETAILS

MISSOURI DEPARTMENT
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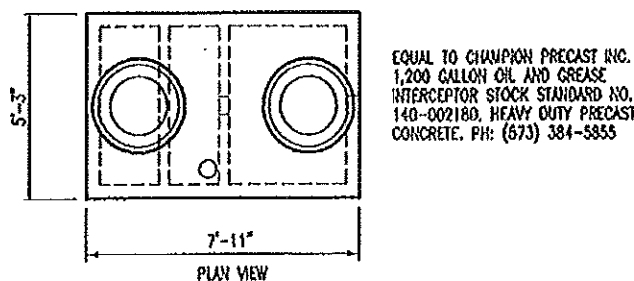
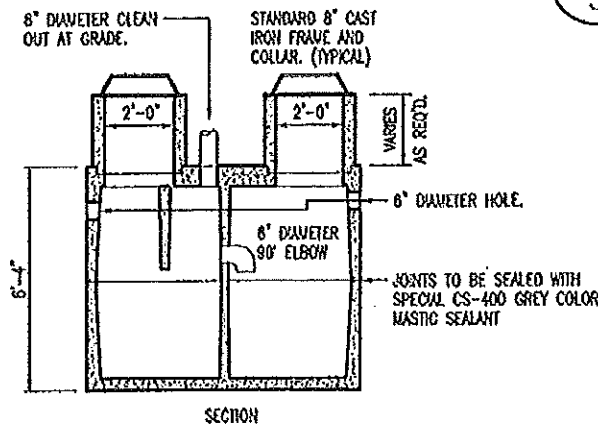
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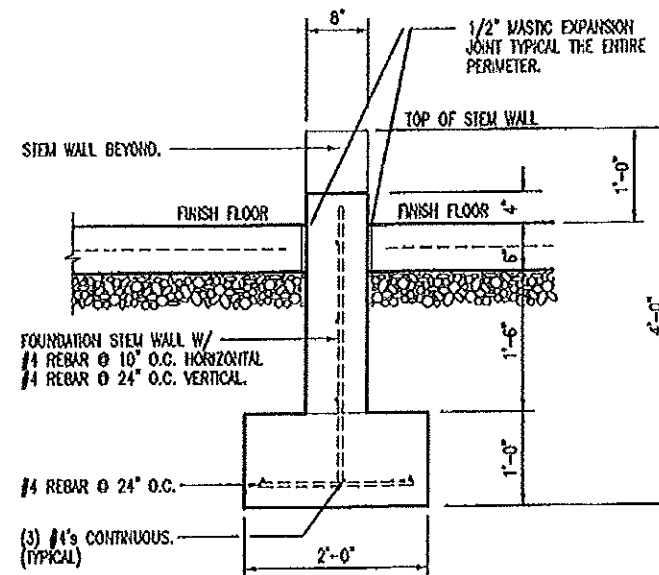
CONTRACTOR NOTE:
BEGIN CONCRETE SLOPE AWAY FROM
DOOR THRESHOLD 2' FROM INSIDE
BUILDING.



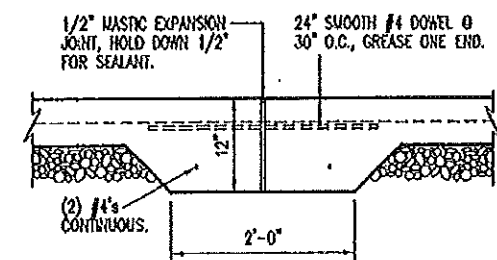
D
5
TRENCH DRAIN WITH
APPROACH APRON
SCALE: 1/2" = 1'-0"



A
5
1,200 GALLON
OIL SEPARATOR
SCALE: 3/16" = 1'-0"



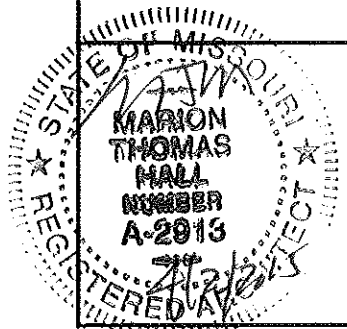
B
5
CONCRETE CURB
SCALE: 1/2" = 1'-0"



C
5
EXPANSION JOINT
SCALE: 1/2" = 1'-0"

CONCRETE NOTES

1. CONCRETE WORK SHALL BE EXECUTED IN STRICT COMPLIANCE WITH THE LATEST EDITION OF THE AMERICAN CONCRETE INSTITUTE (A.C.I.) MANUAL OF CONCRETE PRACTICE.
2. FOUNDATION DESIGN IS BASED UPON AN ASSUMED SOIL BEARING CAPACITY OF 2,000 PSF. IF WET OR UNUSUAL SOIL CONDITIONS ARE ENCOUNTERED, NOTIFY THE DESIGNER AND CONSTRUCTION INSPECTOR BEFORE PROCEEDING WITH THE WORK.
3. IF CONDITIONS REQUIRING ROCK EXCAVATION ARE ENCOUNTERED, NOTIFY THE DESIGNER AND CONSTRUCTION INSPECTOR BEFORE PROCEEDING WITH THE WORK.
4. ALL CONCRETE SHALL BE TYPE 1 CEMENT WITH A COMPRESSIVE STRENGTH OF 4,000 PSI @ 28 DAYS AND NOT TO EXCEED 4" SLUMP.
5. FOUNDATION PIERS AND FOOTINGS SHALL BEAR A MINIMUM OF 12 INCHES INTO UNDISTURBED SOIL AND 36 INCHES MINIMUM BELOW FINISH GRADE.
6. DEFORMED STEEL REINFORCING BARS SHALL BE: #4 AND LARGER ASTM A615 GRADE 60.
7. SEE SPECIFICATION SECTION 03300 CONCRETE FOR ADDITIONAL INFORMATION.
8. CONCRETE EXPOSED TO THE EXTERIOR SHALL RECEIVE AIR ENTRAINMENT 6% +/- 2%.
9. PROVIDE CORNER REINFORCING BARS WITH 12" MINIMUM LAP EQUAL IN SIZE AND GRADE TO CONNECTING BARS.
10. EXTERIOR CONCRETE FLATWORK SHALL HAVE A LIGHT BROOM FINISH.
11. COORDINATE WORK OF OTHER TRADES REQUIRED TO BE INSTALLED IN, UNDER, OR THROUGH CONCRETE PRIOR TO PLACEMENT OF CONCRETE. INSTALL ALL ANCHORAGES AND SLEEVES REQUIRED FOR THE INSTALLATION OF WORK BY OTHER TRADES.
12. ENTIRE PERIMETER OF BUILDING TO RECEIVE 2" POLYISOCYANURATE RIGID INSULATION BOARD.
13. SAWED CONTROL JOINTS SHALL BE CLEANED FREE OF ALL DEBRIS AND FILLED WITH SEALANT. SEE SECTION 07900.
14. ALL EXPOSED INTERIOR CONCRETE FLOORS SHALL RECEIVE A CURING/SEALING FINISH PER SPECIFICATION SECTION 03346.
15. COPPER PIPING RUN THROUGH CONCRETE WORK SHALL BE RUN THROUGH PVC SLEEVES.
16. PROVIDE PRECAST TRENCH DRAIN & CATCH BASIN AS SPECIFIED. INSTALL AS RECOMMENDED BY THE MANUFACTURER. ACTUAL CONSTRUCTION AND INSTALLATION MAY REQUIRE SOME FIELD MODIFICATIONS. ANY DEVIATION FROM THE DRAWINGS AND SPECIFICATIONS SHALL HAVE PRIOR APPROVAL FROM THE ARCHITECT OR BUILDING INSPECTOR.

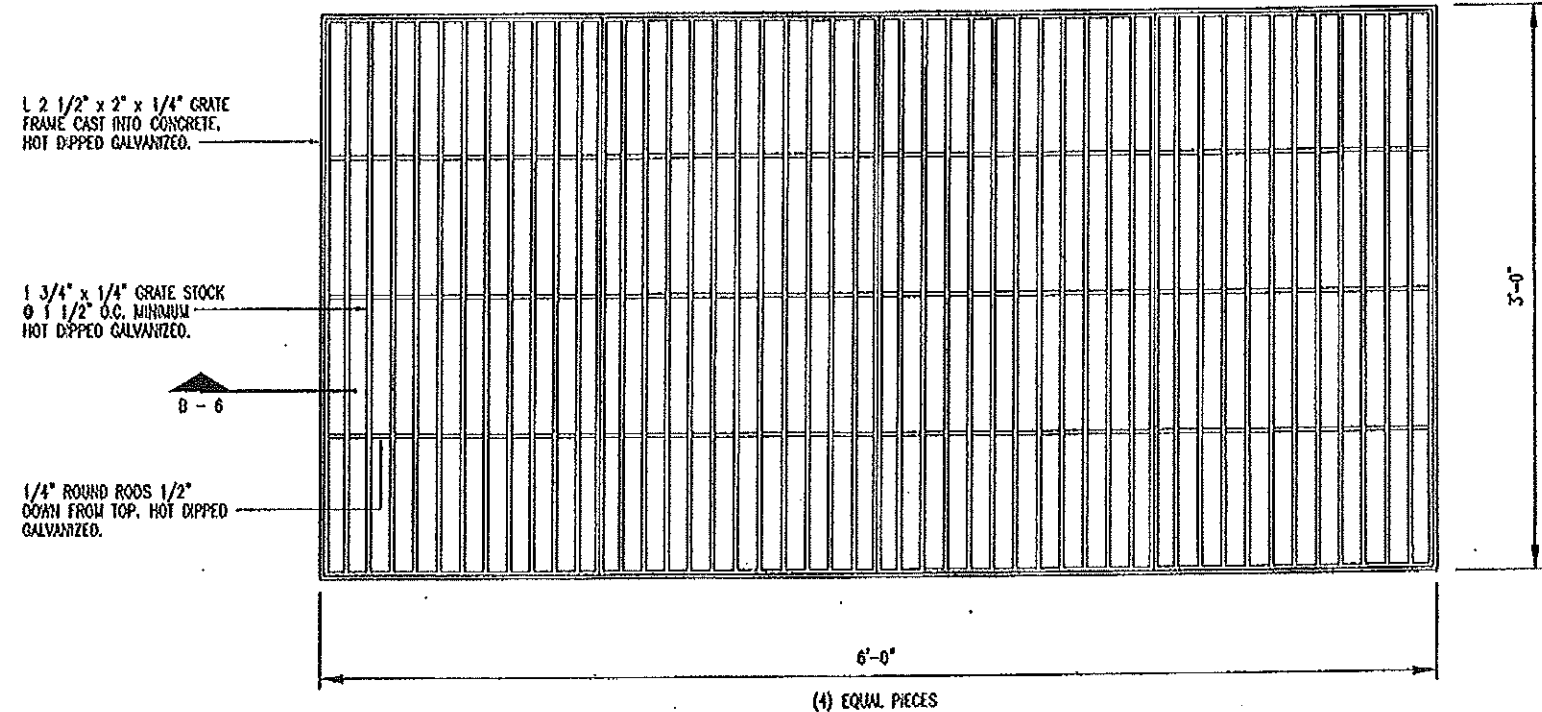


FOUNDATION DETAILS

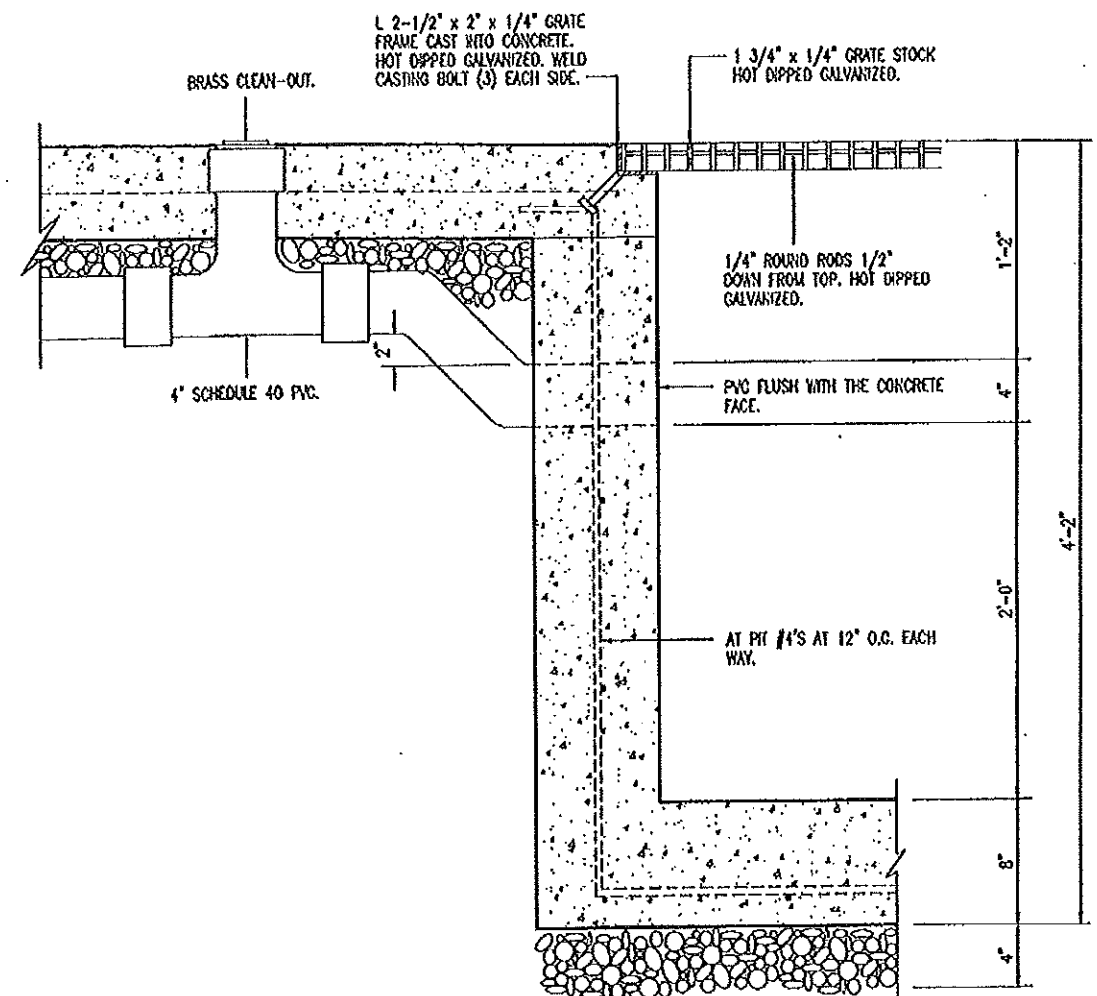
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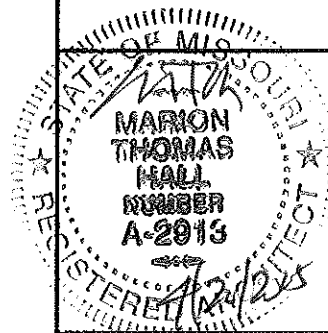
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DATE: 4-3-2013
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A PIT DRAIN GRATE
6 SCALE: 1" = 1'-0"



B PIT DRAIN SECTION
6 SCALE: 1" = 1'-0"

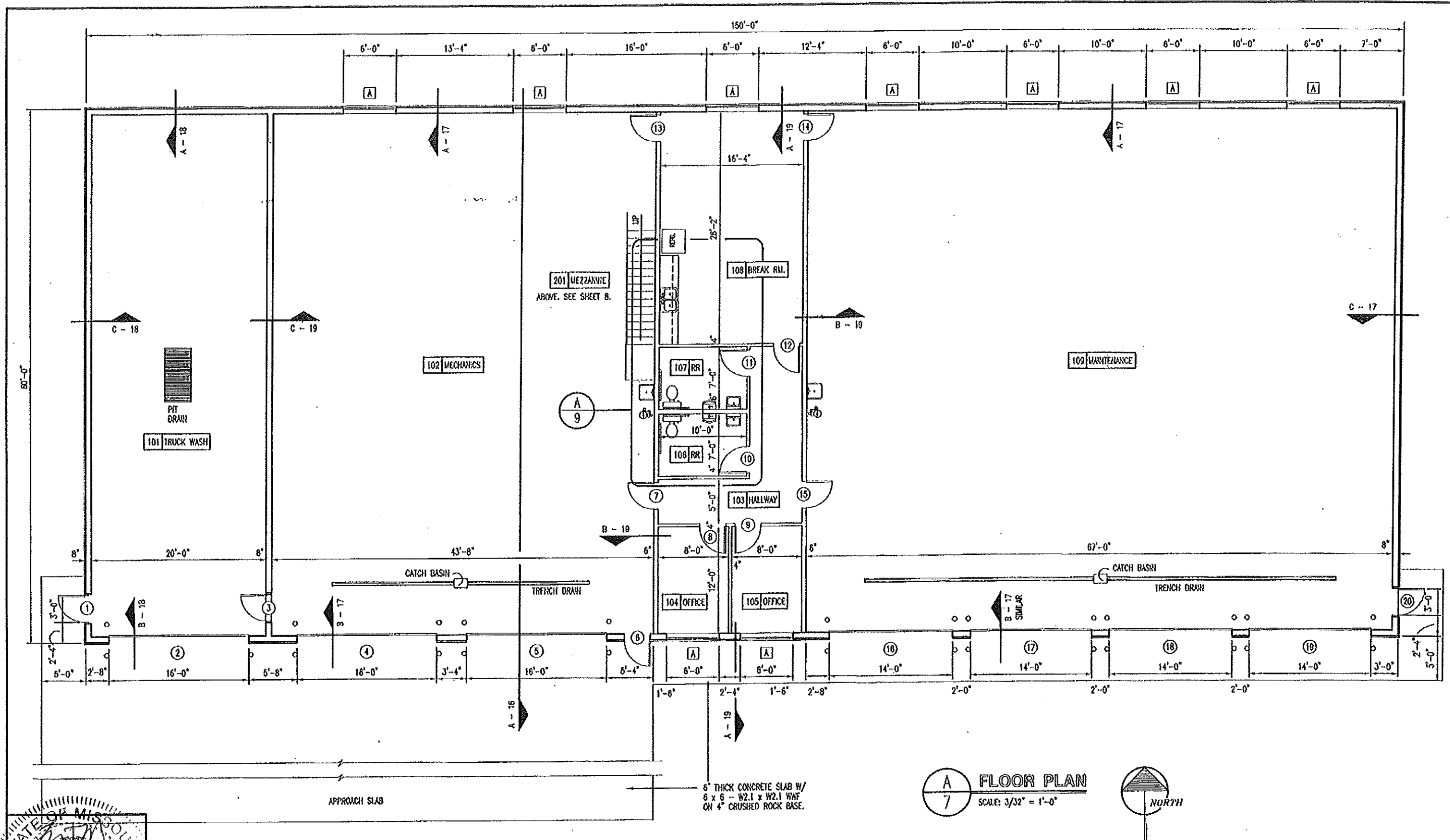


FOUNDATION DETAILS

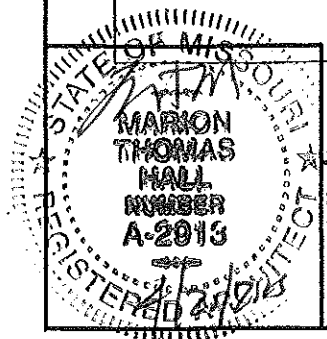
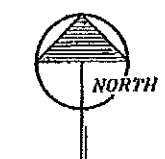
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A
7 **FLOOR PLAN**
SCALE: 3/32" = 1'-0"



FLOOR PLAN

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STOP SAFETY RAIL 4" SHORT OF THE FINISHED WALL EACH END. (TYPICAL)

PROVIDE METAL EDGE STRIP AT THE LANDINGS NOSING.

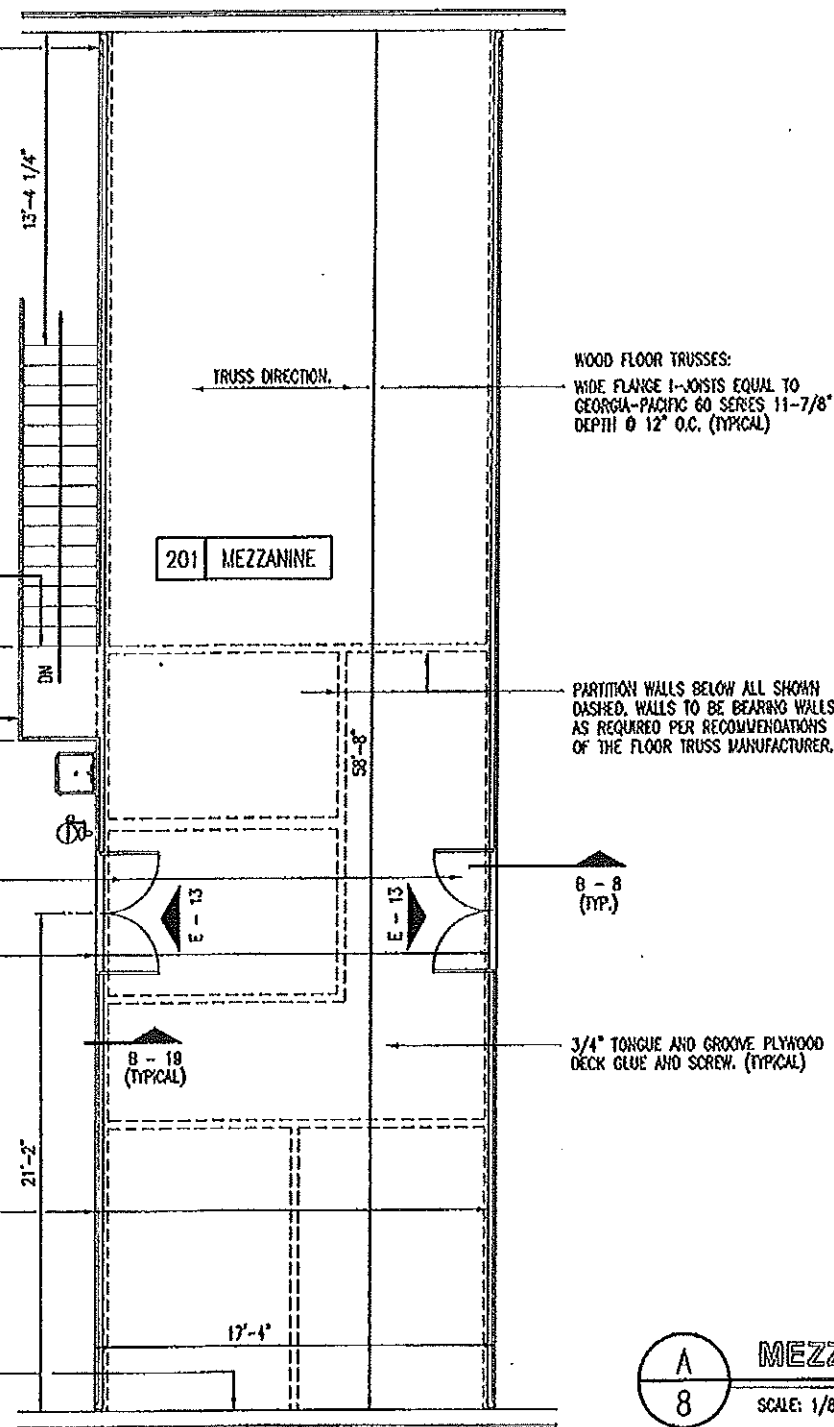
CANTILEVER I-JOIST AT FLOOR TO CREATE LANDING. SEE DETAIL D-13.

GATE RAILING, 1-1/2" STEEL TUBE CONSTRUCTION, PRIMER AND PAINTED.

4" x 6" x 1/4" BENT PLATE AT GATE THRESHOLD. NO LAG BOLTS ALONG THE 4" HORIZONTAL LEG.

SAFETY RAILING, 1-1/2" STEEL TUBE VERTICALS AT 48" O.C. MAX. WELDED TO 10" x 4" x 1/4" - "I" SHAPED ASSEMBLY, PRIMER & PAINTED. (TYP.)

26 GA. INTERIOR METAL LINER PANEL FROM FINISHED MEZZANINE FLOOR TO FINISHED CEILING. PROVIDE BOTTOM CLOSURE TRIM AND RAT GUARD. (TYP.)

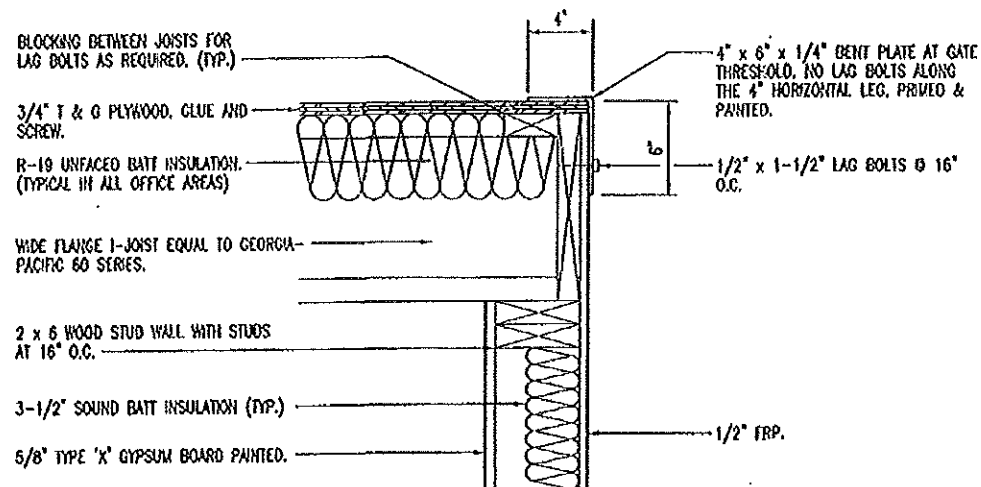


WOOD FLOOR TRUSSES:
WIDE FLANGE I-JOISTS EQUAL TO GEORGIA-PACIFIC 60 SERIES 11-7/8" DEPTH @ 12" O.C. (TYPICAL)

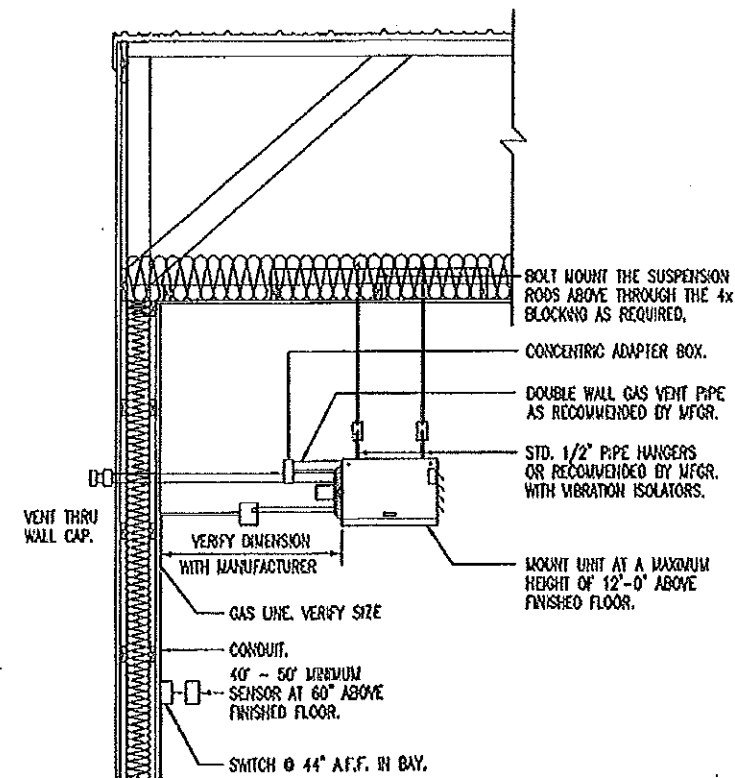
PARTITION WALLS BELOW ALL SHOWN DASHED. WALLS TO BE BEARING WALLS AS REQUIRED PER RECOMMENDATIONS OF THE FLOOR TRUSS MANUFACTURER.

3/4" TONGUE AND GROOVE PLYWOOD DECK GLUE AND SCREW. (TYPICAL)

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



B
8
SECTION AT KICKPLATE
SCALE: 1" = 1'-0"



C
8
UNIT HEATER INSTALLATION
NOT TO SCALE

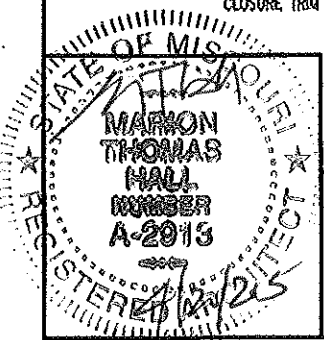
MEZZANINE PLAN

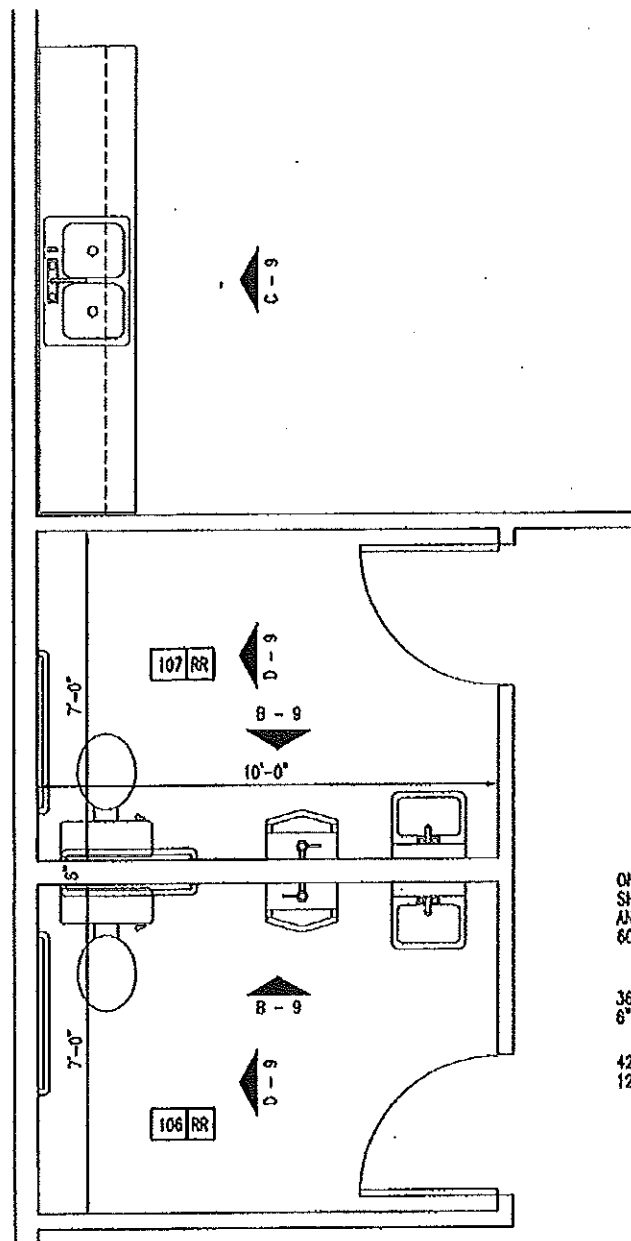
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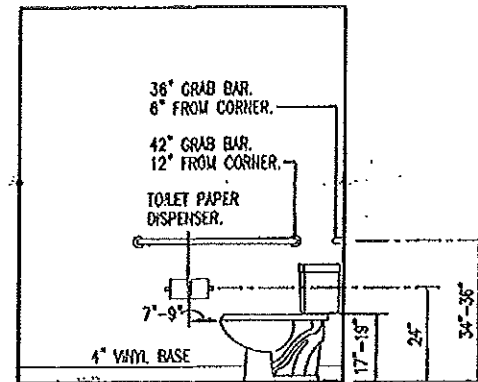
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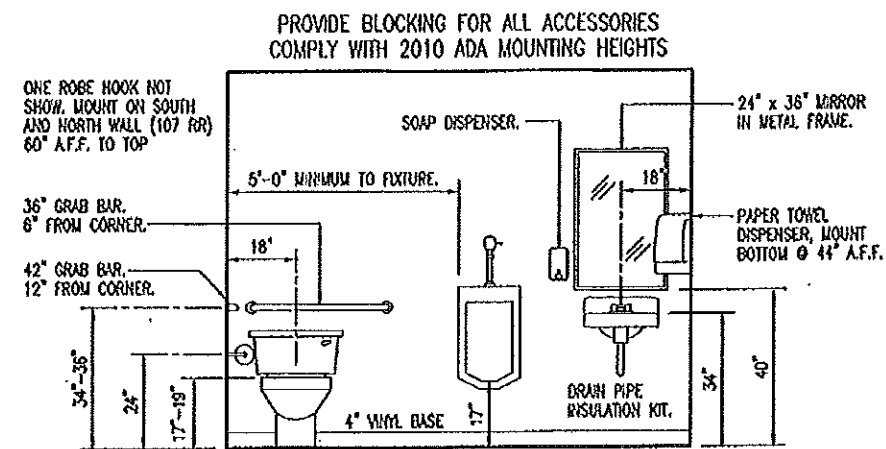


A
9
REST ROOM PLAN
SCALE: 1/4" = 1'-0"

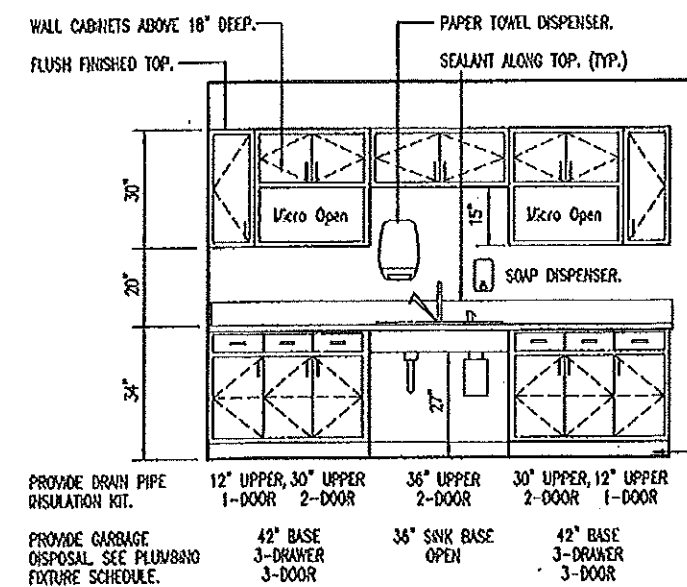
PROVIDE BLOCKING FOR ALL ACCESSORIES
COMPLY WITH 2010 ADA MOUNTING HEIGHTS



D
9
107 RR (REVERSED)
REST ROOM ELEVATION
SCALE: 1/4" = 1'-0"



B
9
107 RR (REVERSED)
REST ROOM ELEVATION
SCALE: 1/4" = 1'-0"



C
9
CASEWORK ELEVATION
SCALE: 1/4" = 1'-0"

CABINET CONSTRUCTION

CABINETS -- PLASTIC LAMINATE ON 3/4" HIGH DENSITY PARTICLE BOARD WITH WHITE MELAMINE INTERIORS, WIRE PULLS AND ADJUSTABLE SHELVES.

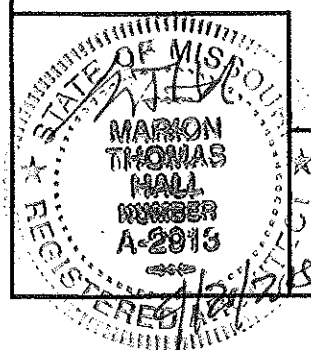
ALL DRAWERS TO HAVE METAL GUIDES, WIRE PULLS AND MELAMINE INTERIORS.

PLASTIC LAMINATE ON 3/4" HIGH DENSITY PARTICLEBOARD FOR COUNTER TOP AND BACKSPLASH.

GENERAL CONTRACTOR TO PROVIDE MOUNTING BLOCKING AS REQUIRED BEFORE INSTALLATION OF GYPSUM BOARD.

LOWER CABINETS ARE 24" DEEP.

4" VINYL BASE.



REST ROOM PLAN

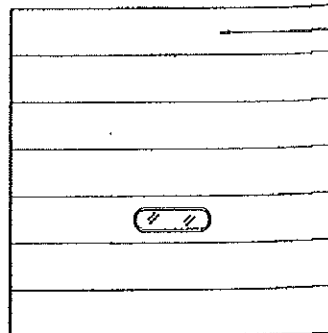
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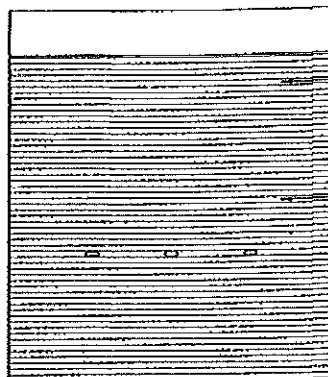
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DOOR SCHEDULE

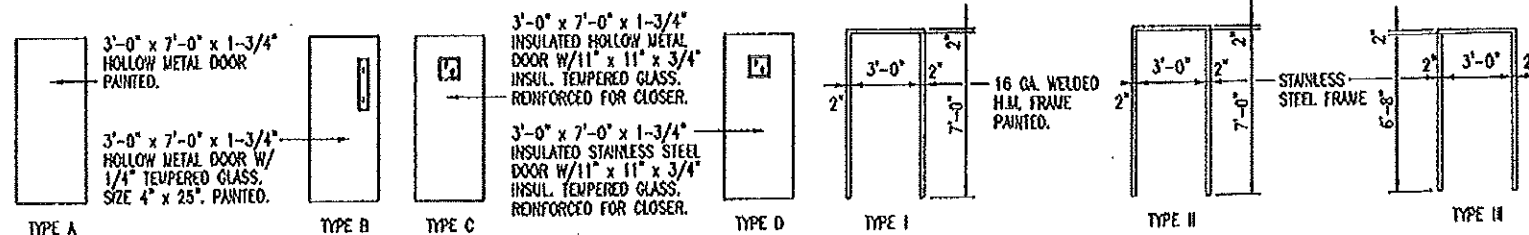
NO.	SIZE	SWING	DR. TYPE	FRM. TYPE	DETAIL	DEPTH	HDWR. GRP.
1	3'-0" x 7'-0" x 1-3/4"	LHR	D	II	C-15	6-1/2"	1
2	16'-0" x 14'-0" x 2"	-	F	-	A & B-15	-	-
3	3'-0" x 6'-8" x 1-3/4"	LHR	D	III	C-15	6-1/2"	1
4	16'-0" x 14'-0" x 2"	-	E	-	A & B-14	-	-
5	16'-0" x 14'-0" x 2"	-	E	-	A & B-14	-	-
6	3'-0" x 7'-0" x 1-3/4"	RHR	C	I	C-14	6-1/2"	1
7	3'-0" x 7'-0" x 1-3/4"	LHR	D	I	D-15	7-5/8"	5
8	3'-0" x 7'-0" x 1-3/4"	LH	B	I	E-14	5-7/8"	3
9	3'-0" x 7'-0" x 1-3/4"	RH	B	I	E-14	5-7/8"	3
10	3'-0" x 7'-0" x 1-3/4"	LH	A	I	E-14	5-7/8"	2
11	3'-0" x 7'-0" x 1-3/4"	RH	A	I	E-14	5-7/8"	2
12	3'-0" x 7'-0" x 1-3/4"	RHR	B	I	E-14	5-7/8"	4
13	3'-0" x 7'-0" x 1-3/4"	LHR	D	I	D-15	7-5/8"	4
14	3'-0" x 7'-0" x 1-3/4"	RHR	B	I	D-15	7-5/8"	4
15	3'-0" x 7'-0" x 1-3/4"	RHR	B	I	D-15	7-5/8"	5
16	14'-0" x 14'-0" x 2"	-	E	-	A & B-14	-	-
17	14'-0" x 14'-0" x 2"	-	E	-	A & B-14	-	-
18	14'-0" x 14'-0" x 2"	-	E	-	A & B-14	-	-
19	14'-0" x 14'-0" x 2"	-	E	-	A & B-14	-	-
20	3'-0" x 7'-0" x 1-3/4"	RHR	C	I	C-14	6-1/2"	1



TYPE E



TYPE F



WINDOW SCHEDULE



6'-0" x 3'-0"
ALUMINUM DOUBLE
HORIZONTAL SLIDER
WITH SECURITY SCREEN.

SEE DETAILS
F, G & H-14.



SILL HEIGHT:
48" A.F.F.

GENERAL NOTES:

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

FINISH SCHEDULE

FINISH SCHEDULE														
NO.	ROOM		FLOOR	WALLS					BASE			CEILING		
			3/4" T & G PLYWOOD, CURE AND SEALER ON CONCRETE.	7/16" FRBR-CORR FIBERGLASS PANEL	26 GA. INTERIOR PANELS	1/2" FRP ON EXTERIOR SIDE OF OFFICE WALL	5/8" GYPSUM BOARD.	5/8" GREEN GYP. BD.	PAINTED.	4" VINYL	4" VINYL ON EXTERIOR SIDE OF OFFICE WALL	NONE	26 GA. CEILING PANELS.	ACOUSTICAL CEILING TILE @ 8'-0" A.F.F.
101	TRUCK WASH		•	•								•	•	
102	MECHANICS		•		•	•					•	•		•
103	HALLWAY		•				•		•	•				•
104	OFFICE		•				•		•	•				•
105	OFFICE		•				•		•	•				•
106	REST ROOM (RR)		•					•	•	•				•
107	REST ROOM (RR)		•					•	•	•				•
108	BREAK ROOM						•		•	•				•
109	MAINTENANCE		•		•	•					•	•	•	
201	MEZZANINE		•		•							•	•	

HVAC SCHEDULE

SYM.	UNIT	MANUFACTURER	BTU OUTPUT	FUEL	VOLTAGE	REMARKS
A	36" X 36" SHUTTER MOUNT EXHAUST FAN W/WEATHERHOOD	DAYTON 1HLB6 & 1WBW2 OR EQUAL 6.4 AMPS	6,480 CFM	ELECTRIC	120	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 UDAS 100 OR EQUAL	87,150	PROPANE	115	400 STAINLESS STEEL HEAT EXCHANGERS, TOTALLY ENCLOSED FAN MOTOR, HORIZONTAL COMBUSTION AIR/VENT KIT INCLUDING CONCENTRIC ADAPTER. 3.9 AMPS
D	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 AMPS.
E	24" DIA. CORROSION RESISTANT SHUTTER FAN	DAYTON 1BLJ7 OSHA GUARD OR EQUAL	4876 CFM	ELECTRIC	120	FIBERGLASS SHUTTER & BLADES. 6.7 AMPS.
F	MULTI-ZONE DUCTLESS HEAT PUMP	CARRIER 383QK48-3 OR EQUAL	COOL 48K HEAT 54.5K	ELECTRIC	208/230	SEE MECHANICAL PLAN SHEET 23 AND 24.
G	GAS FIRED UNIT HEATER	REZNOR MODEL UDAP 225 OR EQUAL	186,750	PROPANE	115	SINGLE BURNER COMBUSTION, 7.5 AMPS, DETECT SPARK IGNITION, 100% LOCK-OUT & CL-1 STANDARD HEATING ONLY THERMOSTAT.
H	GAS FIRED UNIT HEATER	REZNOR MODEL UDAP 125 OR EQUAL	99,600	PROPANE	115	SINGLE BURNER COMBUSTION, 3.9 AMPS, DETECT SPARK IGNITION, 100% LOCK-OUT & CL-1 STANDARD HEATING ONLY THERMOSTAT.

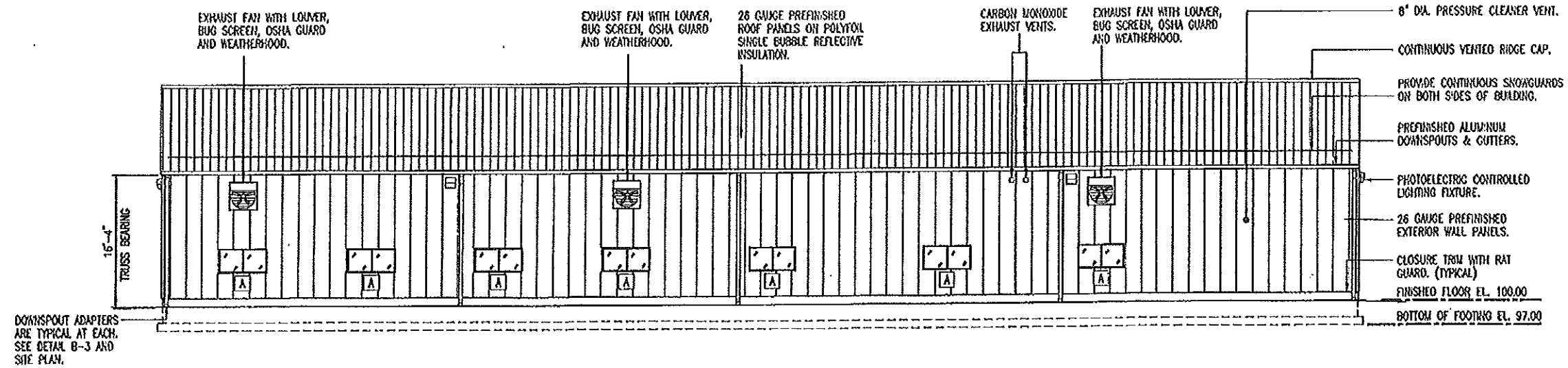
SCHEDULES

MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

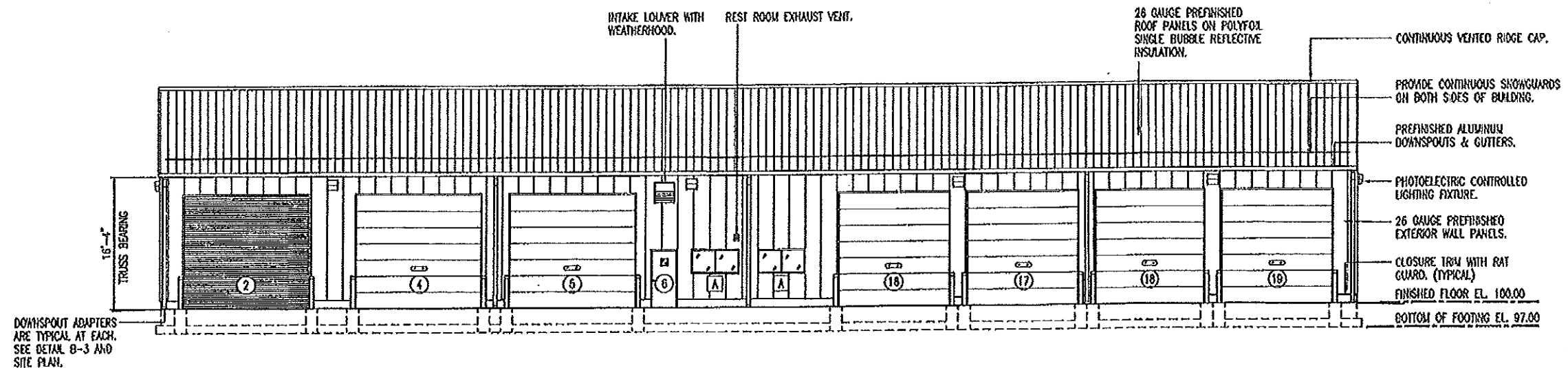
King City Maintenance Building
9990 Highway 169, King City, MO 64463
Northwest District - DeKalb County

DESIGN BY: LARRY CARKER
DATE: 4-17-2015

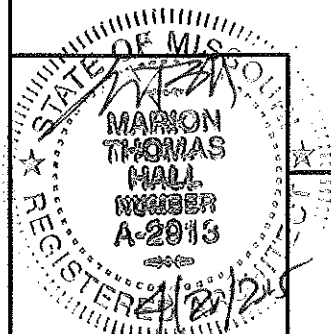
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B
11 **NORTH ELEVATION**
SCALE: 1/16" = 1'-0"



A
11 **SOUTH ELEVATION**
SCALE: 1/16" = 1'-0"

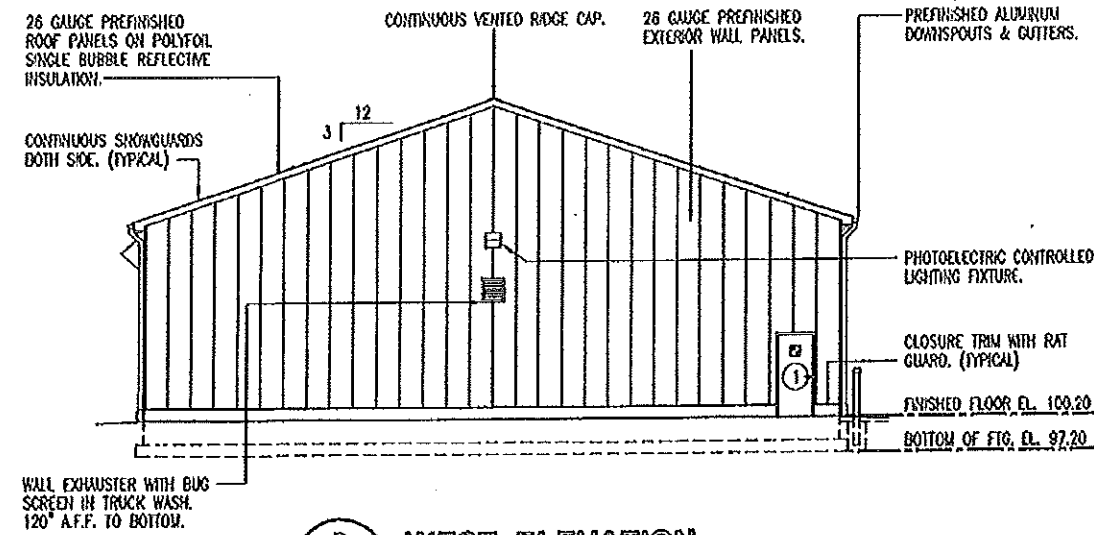


NORTH & SOUTH ELEVATIONS

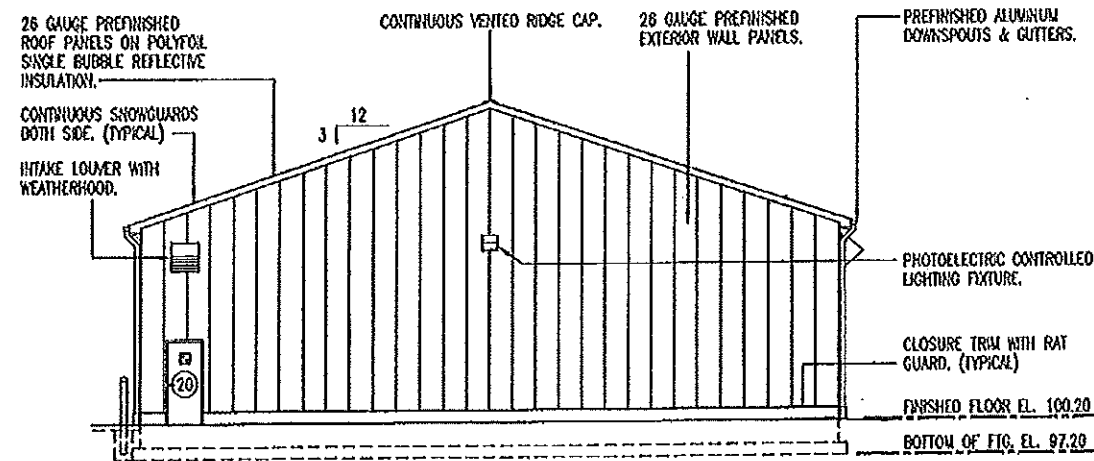
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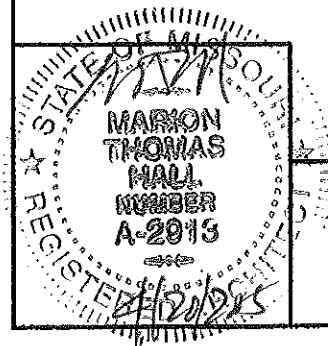
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DATE: 4-17-2013
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B WEST ELEVATION
SCALE: 1/16" = 1'-0"



A EAST ELEVATION
SCALE: 1/16" = 1'-0"



EAST & WEST ELEVATIONS

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PRIVED AND PAINTED.
STAIR RAIL CONNECTION

C
13

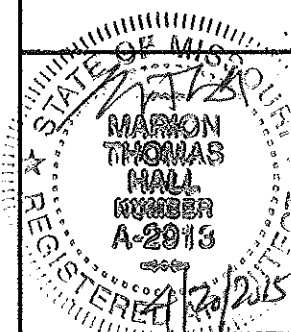
SCALE: 1" = 1'-0"

D KICK PLATE DETAIL
13 SCALE: 1" = 1'-0"

VIEW FROM MEZZARINE
SWING GATE DETAIL
SCALE: 1/2" = 1'-0"

MEZZANINE STAIR SYSTEM

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



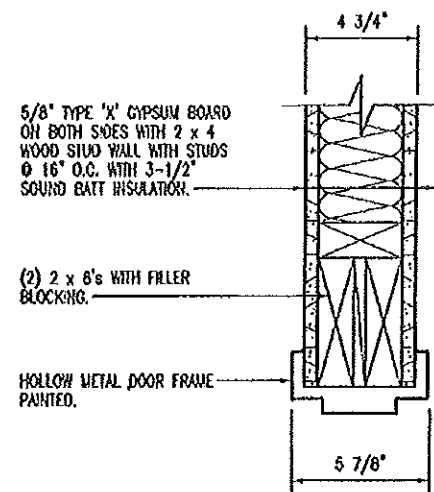
STAIR DETAILS

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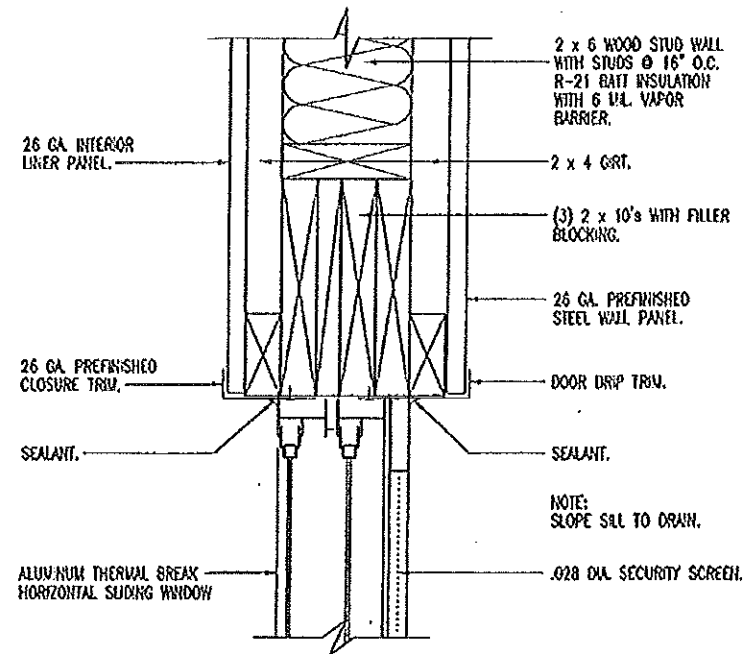
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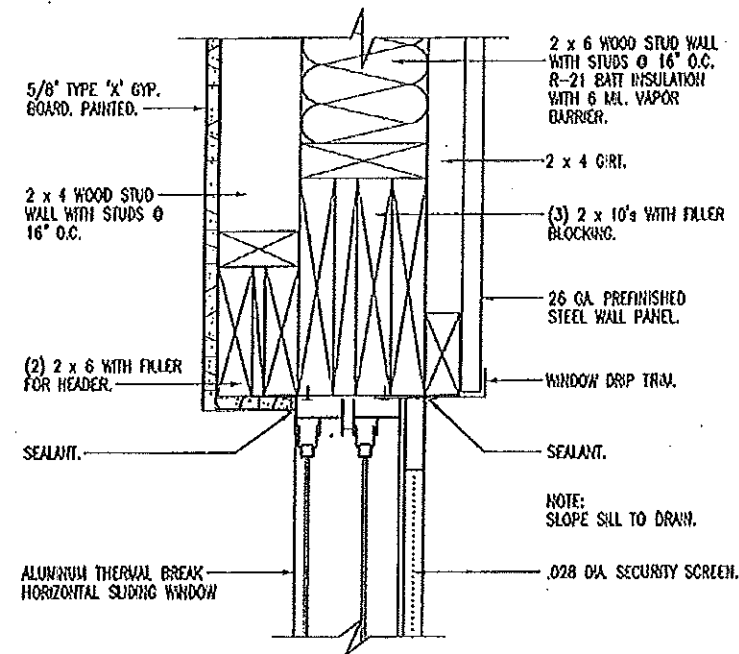
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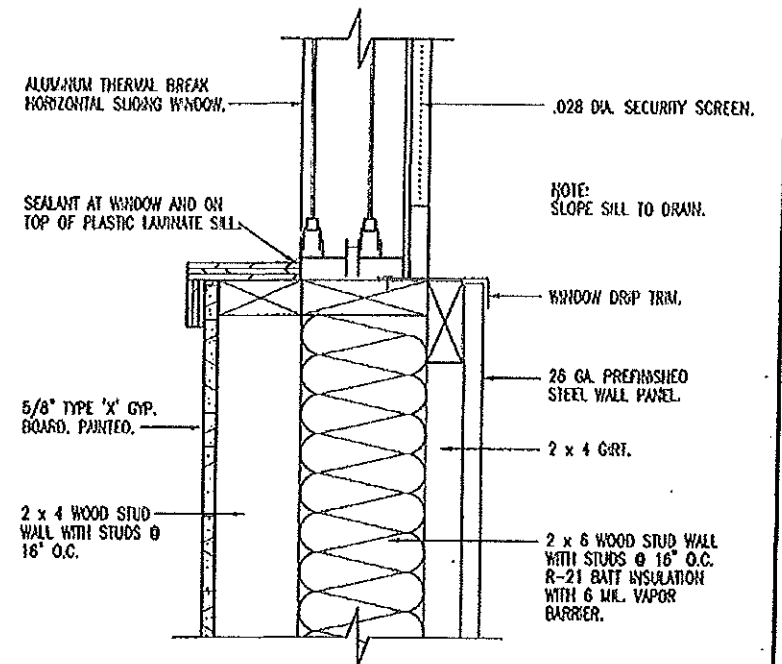
E
14
JAMB SILLAR
DOOR HEAD
SCALE: 1-1/2" = 1'-0"



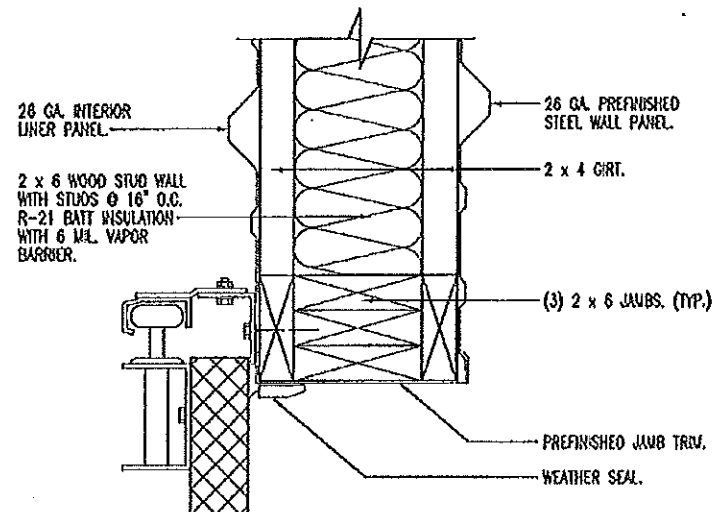
F
14
JAMB & SILL SILLAR
WINDOW HEAD
SCALE: 1-1/2" = 1'-0"



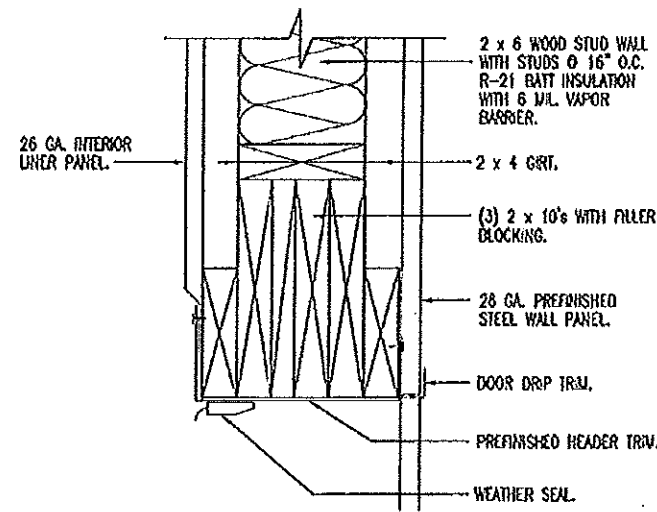
G
14
WINDOW HEAD
SCALE: 1-1/2" = 1'-0"



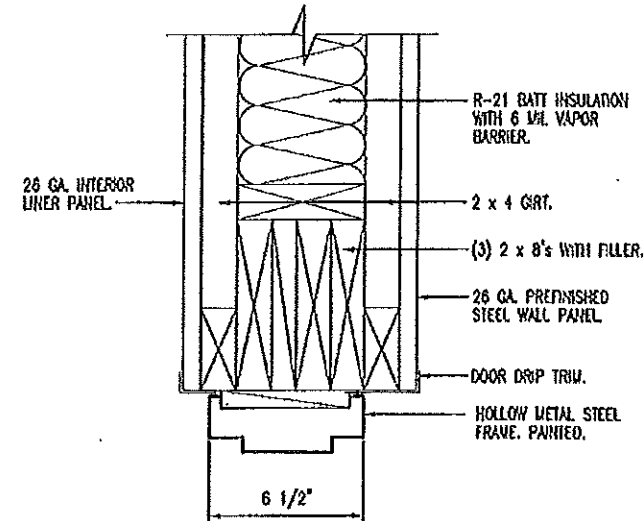
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14
WINDOW SILL
SCALE: 1-1/2" = 1'-0"



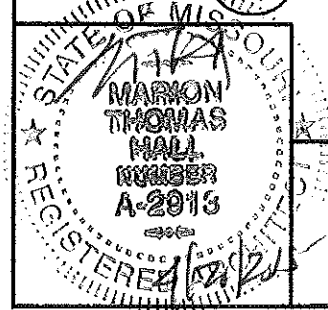
A
14
GARAGE DOOR JAMB
SCALE: 1-1/2" = 1'-0"



B
14
GARAGE DOOR HEAD
SCALE: 1-1/2" = 1'-0"



C
14
DOOR HEADER/JAMB
SCALE: 1-1/2" = 1'-0"

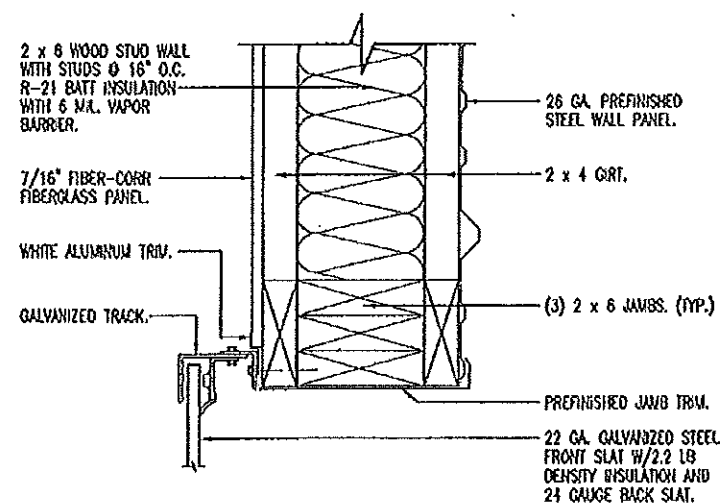


HEAD & JAMB DETAILS

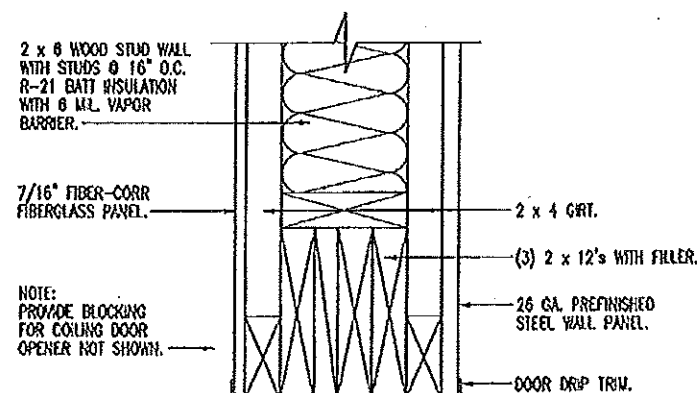
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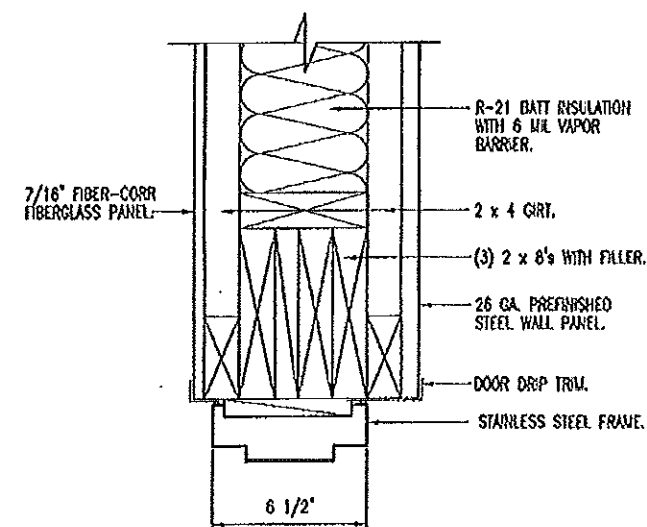
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DATE: 4-3-2013
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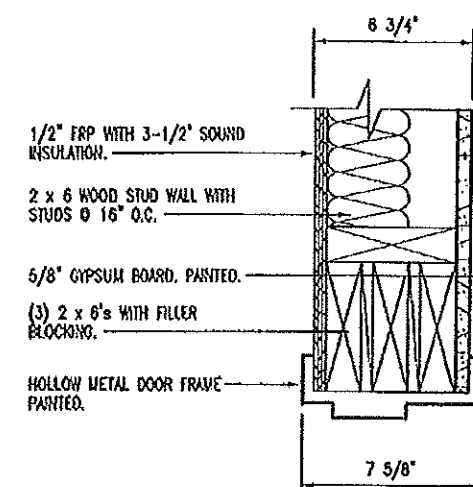
A
15
COILING
GARAGE DOOR JAMB
SCALE: 1-1/2" = 1'-0"



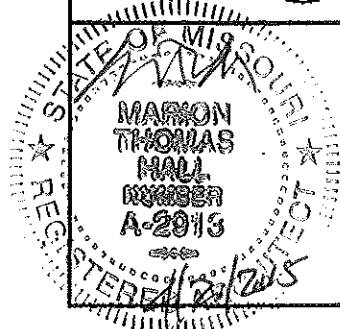
B
15
COILING
GARAGE DOOR HEAD
SCALE: 1-1/2" = 1'-0"



C
15
DOOR HEADER/JAMB
SCALE: 1-1/2" = 1'-0"



D
15
JAMB SILLAR
DOOR HEAD
SCALE: 1-1/2" = 1'-0"

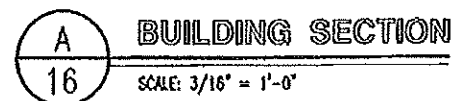


HEAD & JAMB DETAILS

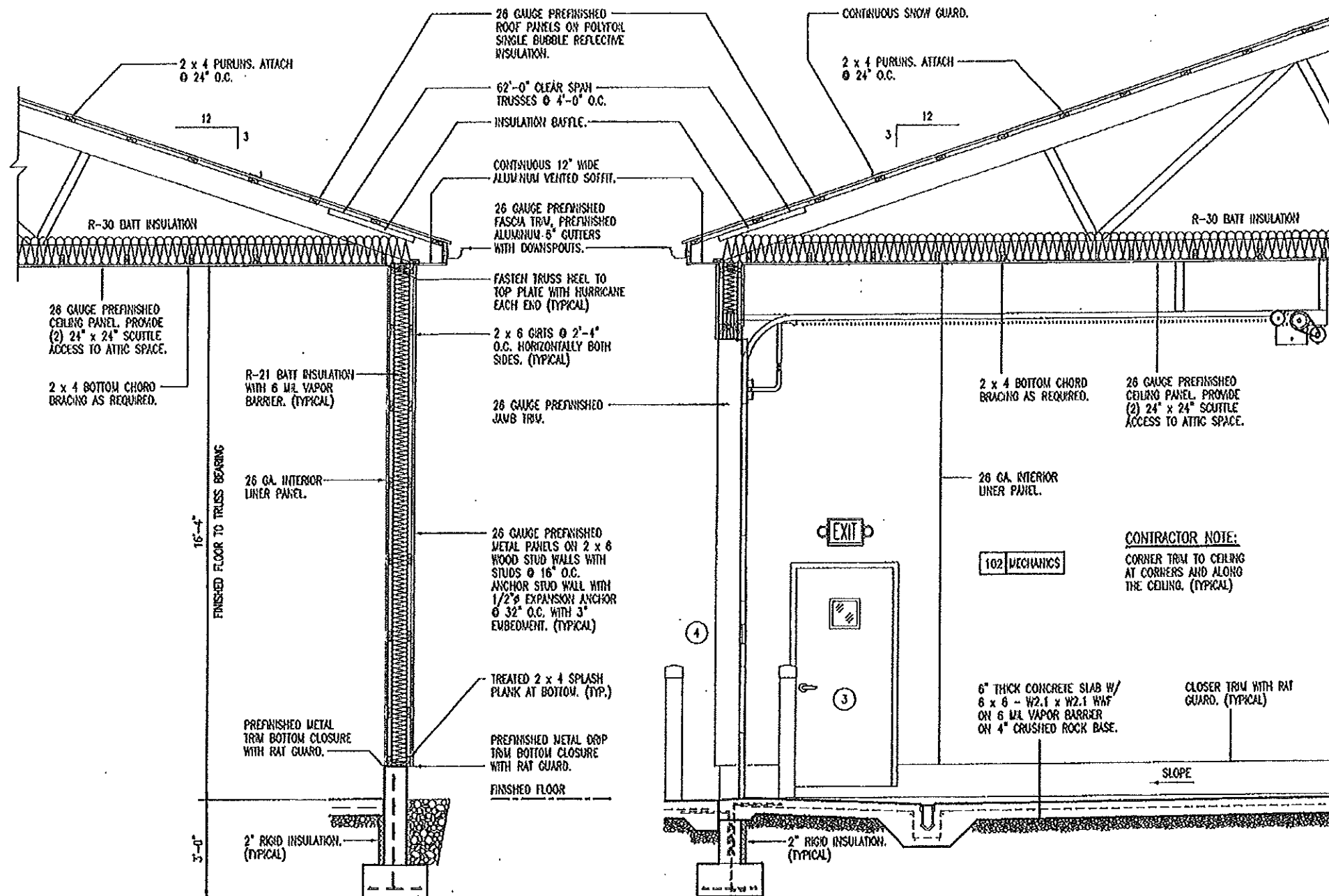
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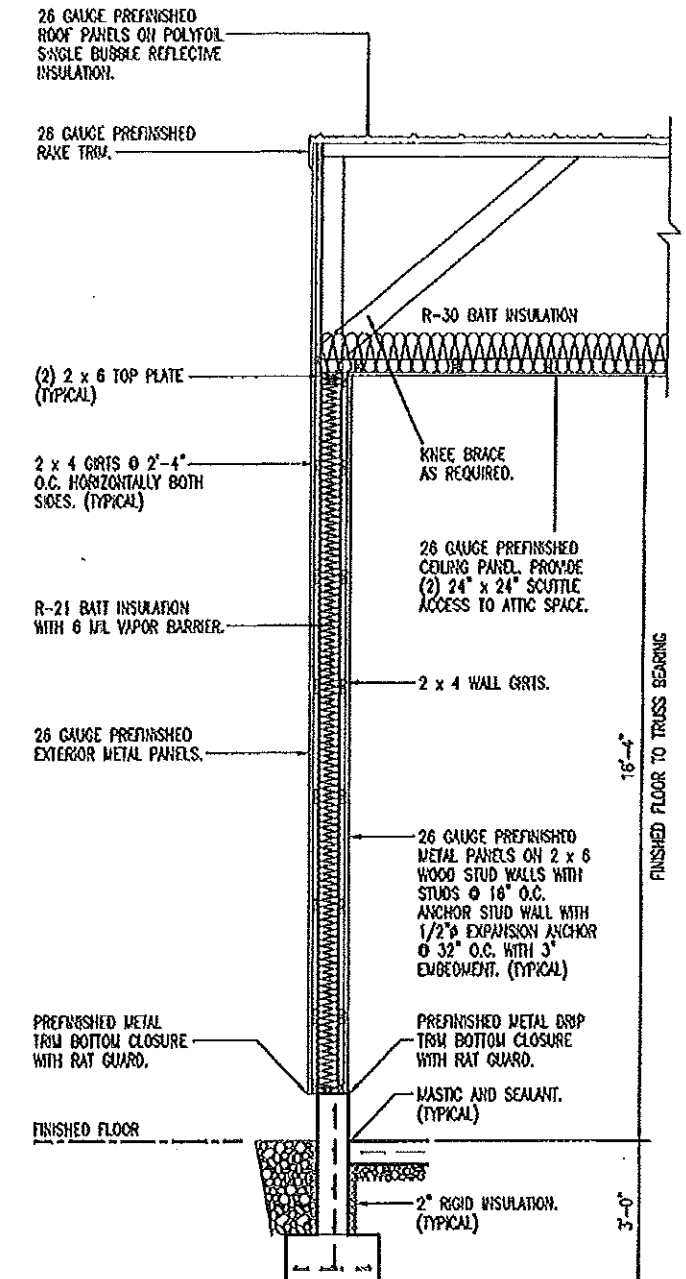
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A
17
SIDEWALL SECTION
SCALE: 1/4" = 1'-0"

B
17
OVERHEAD DOOR SECTION
SCALE: 1/4" = 1'-0"

C
17
ENDWALL SECTION
SCALE: 1/4" = 1'-0"

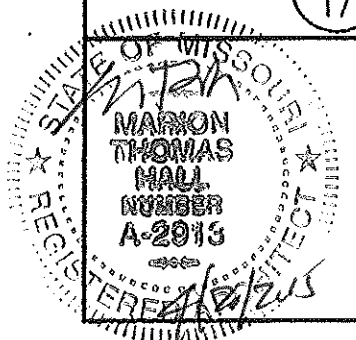


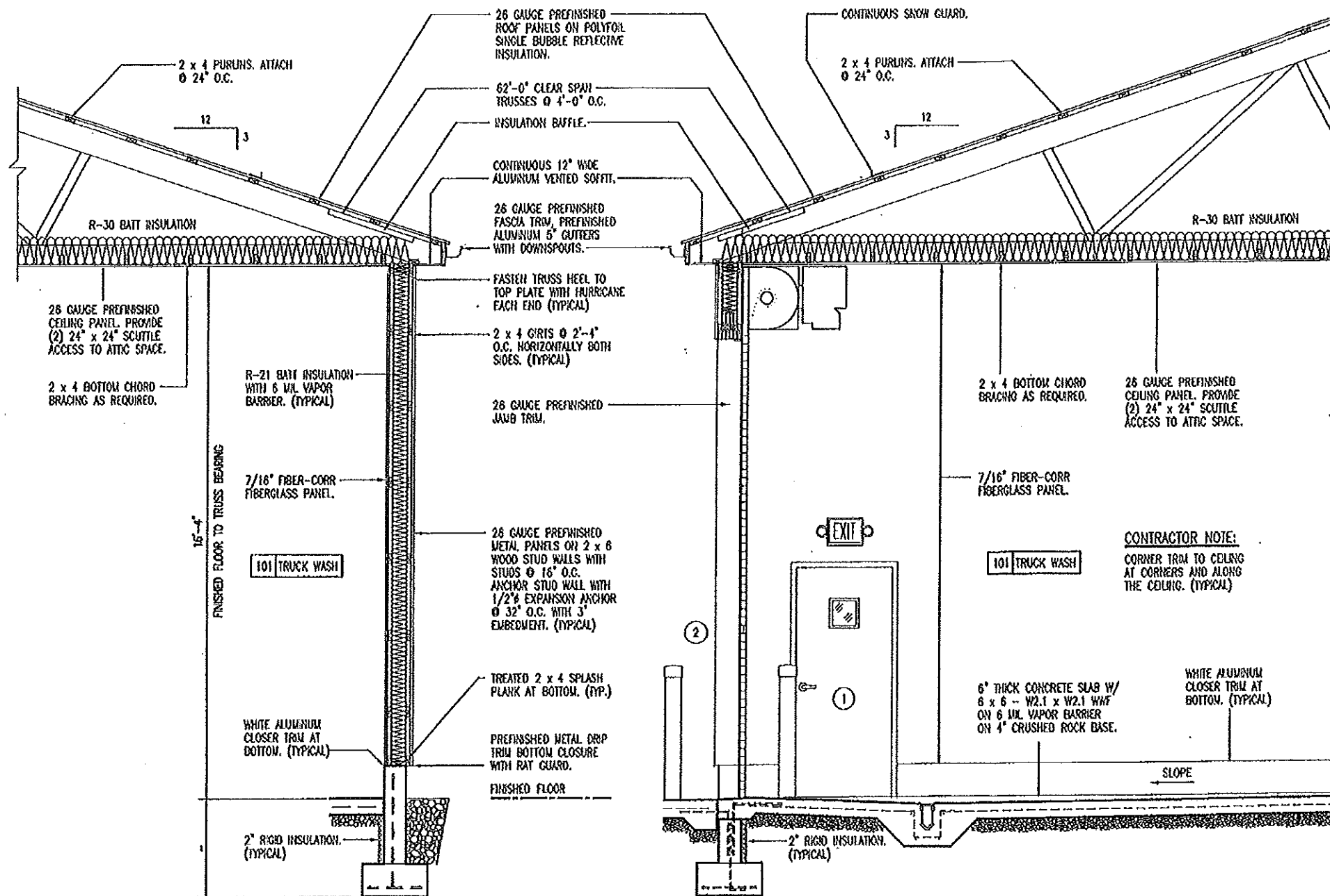
WALL SECTIONS

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FACILITIES MANAGEMENT

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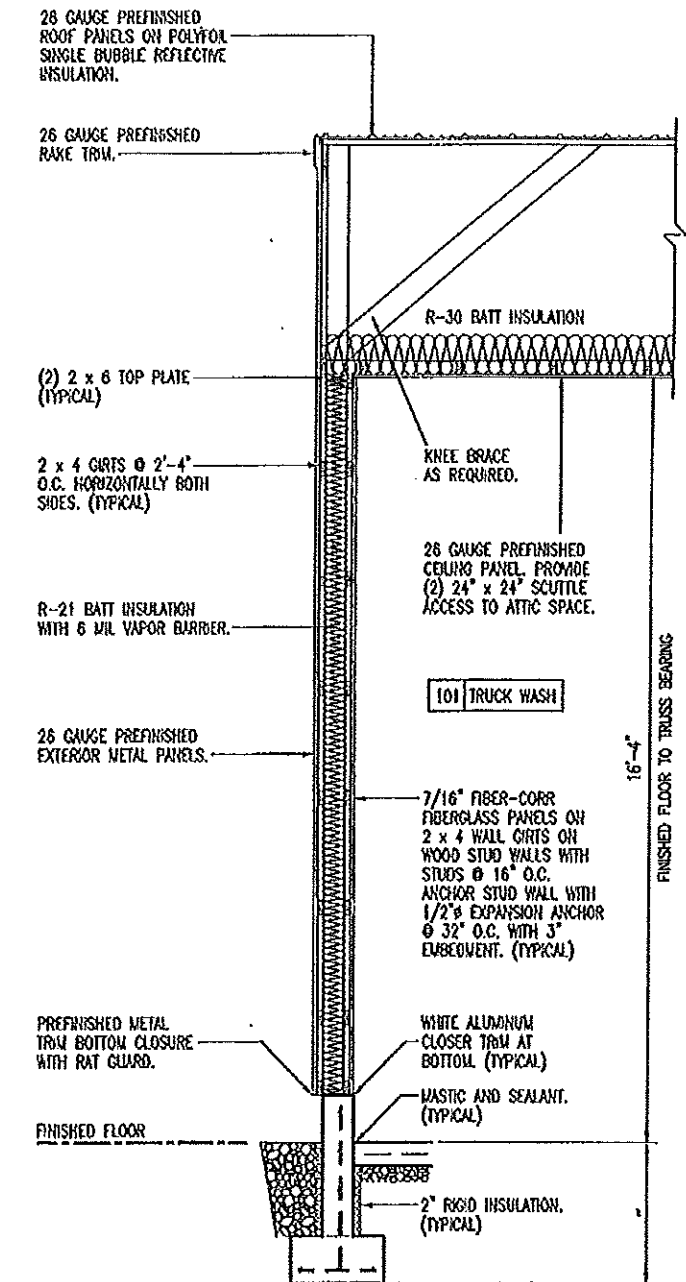




A SIDEWALL SECTION
18 SCALE: 1/4" = 1'-0"

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

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

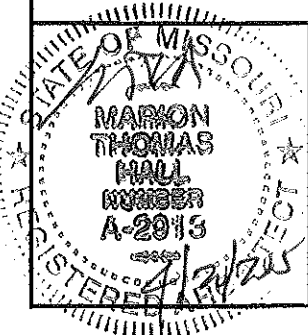


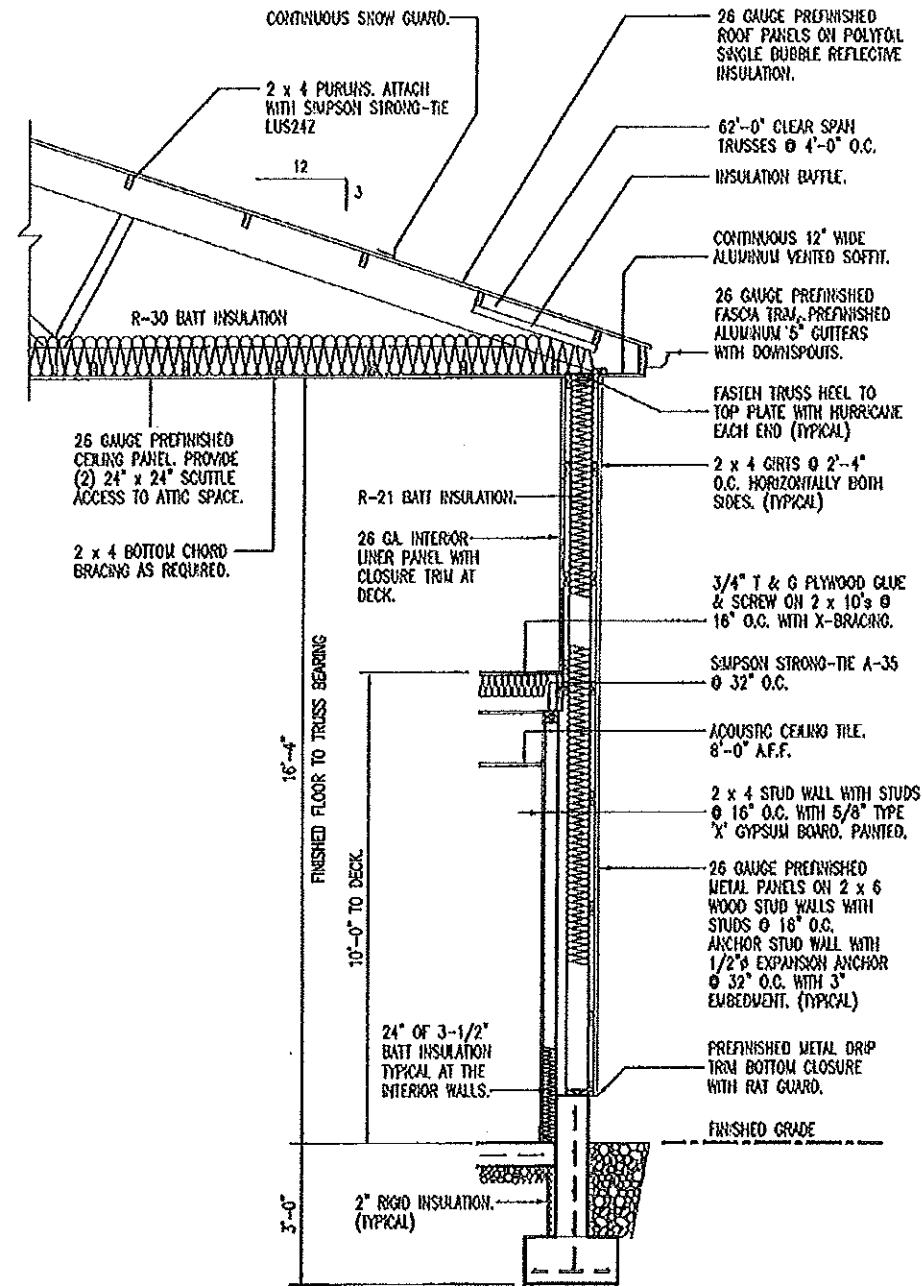
WALL SECTIONS

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OF TRANSPORTATION
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FACILITIES MANAGEMENT

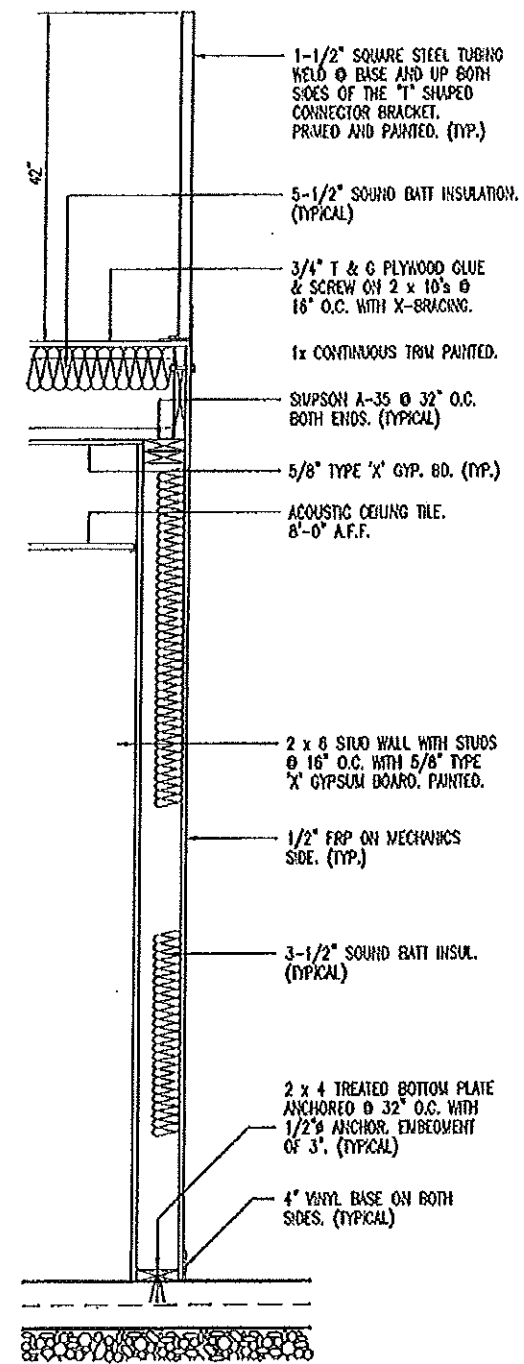
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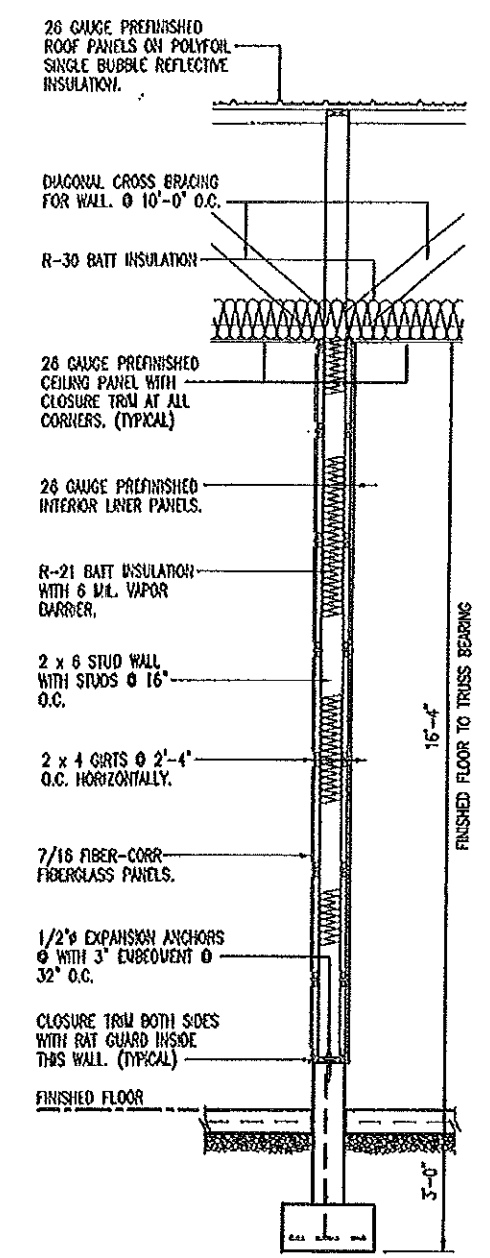




A
19
SIDEWALL SECTION
SCALE: 1/4" = 1'-0"



B
19
WALL SECTION
SCALE: 1/2" = 1'-0"



C
19
MID-WALL SECTION
SCALE: 1/4" = 1'-0"

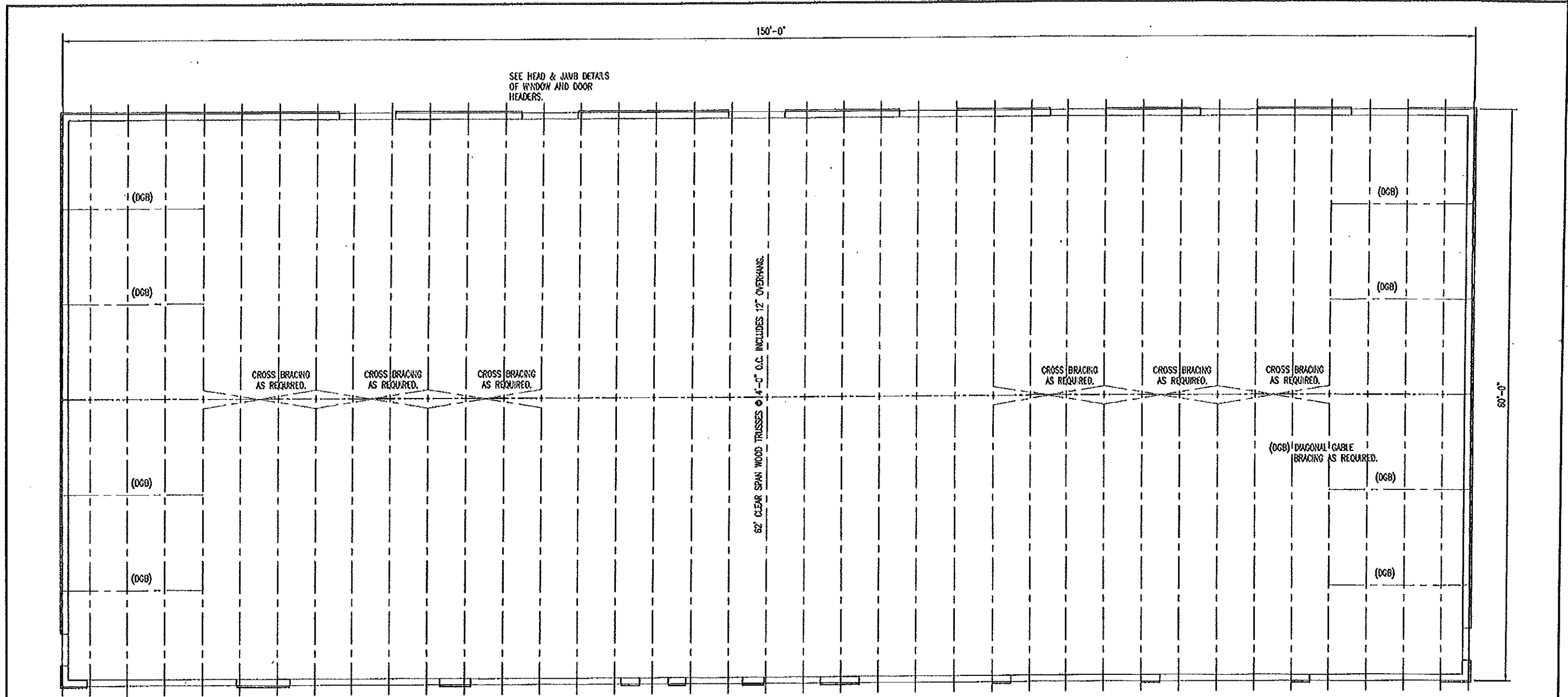


WALL SECTIONS

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SEE HEAD & JAMB DETAILS
OF WINDOW AND DOOR
HEADERS.

A
20

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



ROOF FRAMING NOTES

- DESIGN LOADING FOR ROOF TRUSSES SHALL MEET THE FOLLOWING CRITERIA:
 ROOF LIVE LOAD 25 PSF
 ROOF DEAD LOAD 4 PSF
 BOTTOM CORO DEAD LOAD 5 PSF
 EARTHQUAKE ZONE 1, LATEST EDITION IBC
 WIND 80 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 SDS-SIX AND HURRICANE ANCHORS EQUAL TO SIMPSON STRONG-TIE LUS242 ANCHORS.

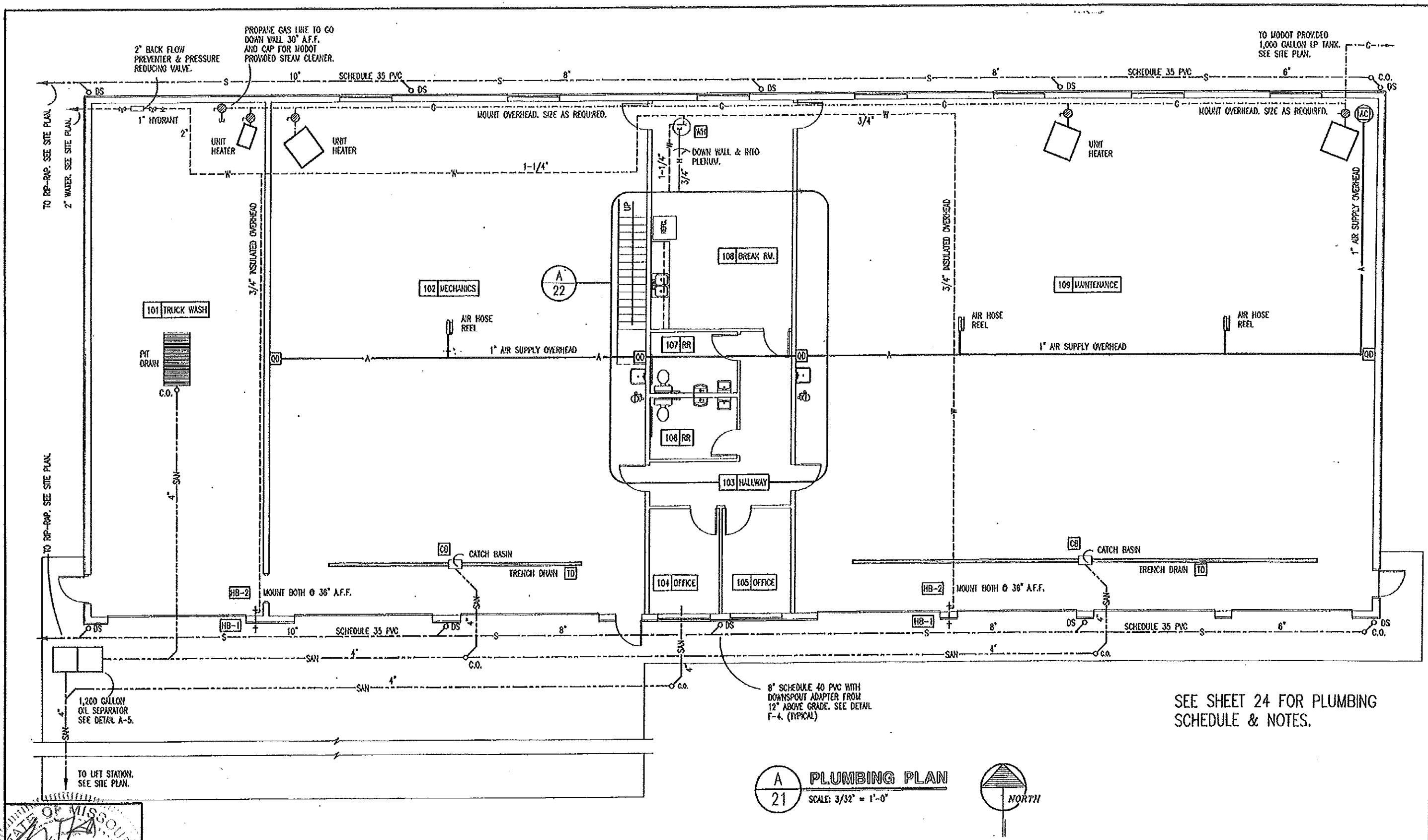


ROOF FRAMING PLAN

MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

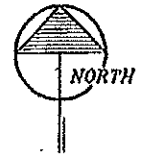
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DATE: 4-17-2015
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SEE SHEET 24 FOR PLUMBING
SCHEDULE & NOTES.

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



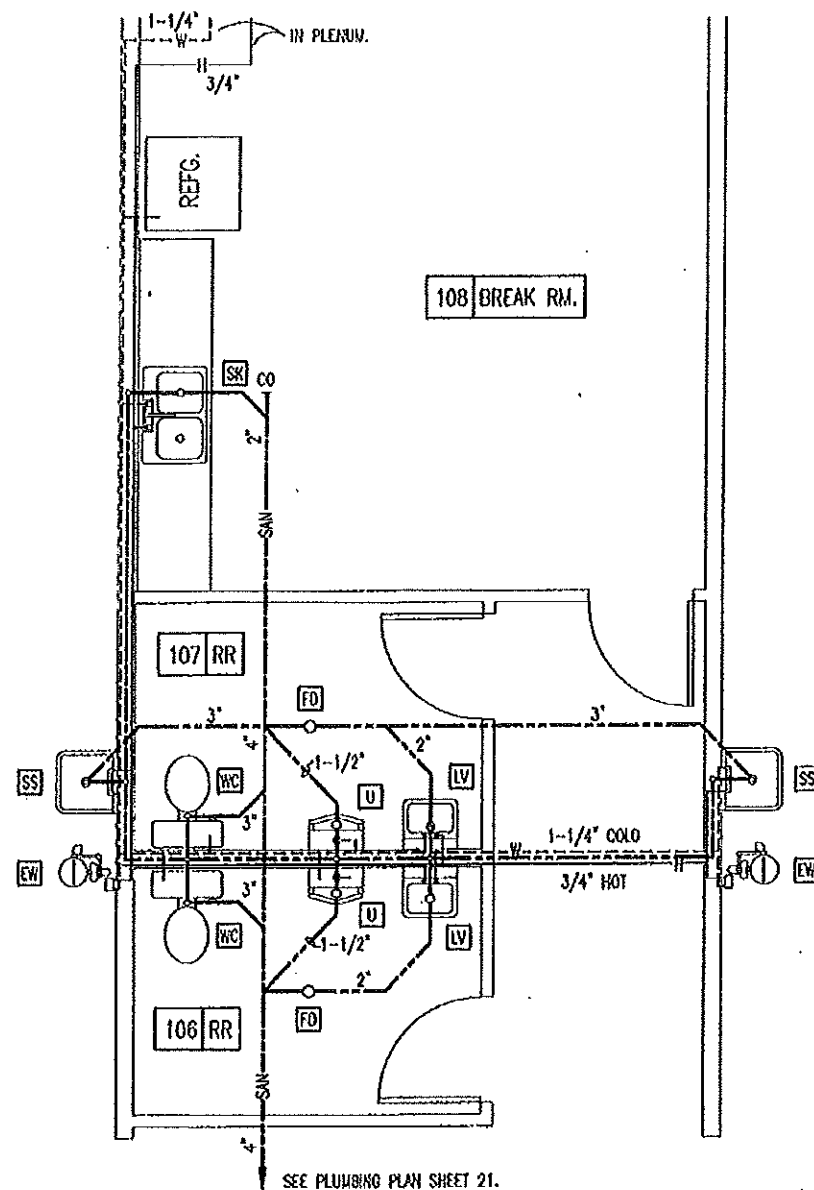
STATE OF MISSOURI
MARION THOMAS
REGISTERED PROFESSIONAL ENGINEER
NUMBER A-2013
12/2/15

PLUMBING PLAN

MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
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DATE: 4-17-2015
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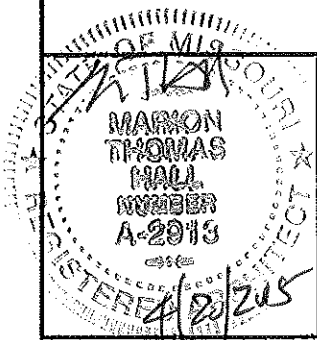
A
22 REST ROOM PLUMBING PLAN
SCALE: 3/16" = 1'-0"



SEE SHEET 24 FOR PLUMBING
SCHEDULE & NOTES.

LEGEND

HOT WATER	H
WATER	W
SANITARY SEWER	SUN
CLEANOUT	C.O.
GAS VALVE	

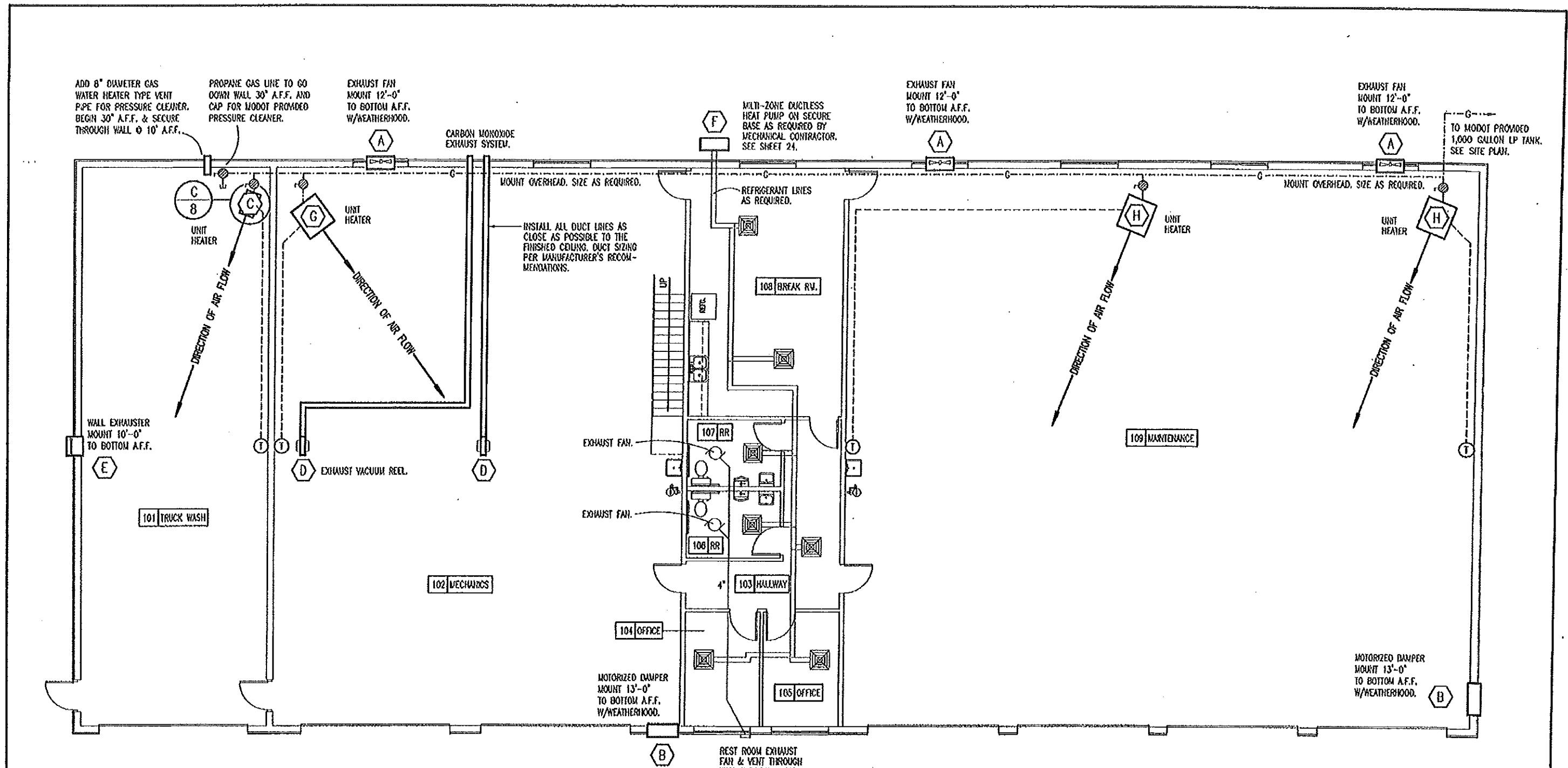


REST ROOM PLUMBING PLAN

MISSOURI DEPARTMENT
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DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

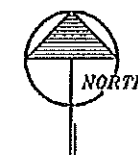
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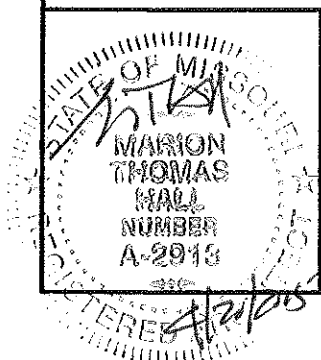


SEE SHEET 24 FOR THE MECHANICAL NOTES.

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



SEE SHEET 10 FOR HVAC FIXTURE SCHEDULE.



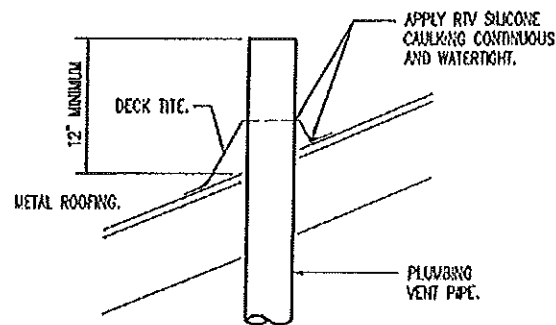
MECHANICAL PLAN

MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

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Northwest District - DeKalb County

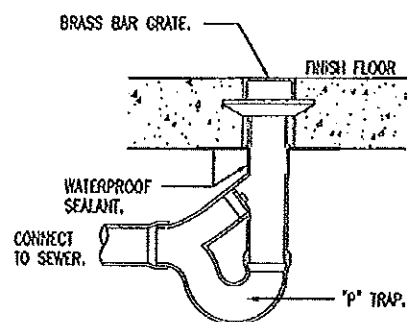
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DATE: 1-17-2015
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PLUMBING SCHEDULE						
SYM.	FIXTURE	PIPE CONNECTION				REMARKS
		CW	HW	S&W	VENT	
WC	WATER CLOSET	1/2"		3"	2"	EQUAL TO AMERICAN STANDARD #2377.100 FLOOR MOUNT, PRESSURE ASSISTED, ELONGATED WATER-SAVER "CADET" WATER CLOSET, 16-1/2" HIGH 3109.016 BOWL, 4098.100 TANK, INCLUDE OPEN FRONT SEAT WITH UD. (WHITE)
U	URINAL	3/4"		1-1/2"	1-1/2"	EQUAL TO AMERICAN STANDARD #6601.021 "LYMBROOK" 1.0 GALLON URINAL WITH SLOAN ROVAL 180-1 FLUSH VALVE.
LV	LAVATORY	1/2"	1/2"	2"	2"	EQUAL TO AMERICAN STANDARD #4887.024, 20" x 18" ENAMELED, CAST IRON "REGALYN" WALL MOUNT LAVATORY WITH 4" CENTERSET SYMONS 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 ECS-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 67 FREEZELESS WALL HYDRANT WITH 3/4" H.P.T. OUTLET, INTEGRAL VACUUM BREAKER-BACK FLOW PREVENTER. (N.A.C.)
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.
CO	CLEAN OUT					BRASS WITH ADAPTER AND CAP EQUAL TO PIPE SIZE SHOWN.
AC	AIR COMPRESSOR					EQUAL TO INGERSOLL-RAND MODEL #2475N7.5, 7.5 HP, 80 GALLON VERTICAL, 24.0 (ACTU) CAPACITY, PROVIDE RUBBERIZED WASHERS AT EACH FLOOR MOUNT TO ACT AS A SHOCK ABSORBER. SIZE MOUNT AS REQUIRED. PROVIDE LINE FILTERS AS REQUIRED.
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 MOBOT MECHANIC. MOUNT AT 48" A.F.F. ATTACH RIGIDLY TO GRIS.
SK	SINK	1/2"	1/2"	2"	2"	EQUAL TO ELKAY MODEL PSR-3321 DOUBLE BOWL SINK WITH STANDARD 4 HOLE PATTERN AND ELKAY MODEL LK-4301-F CHROME FAUCET, SPOUT, SWIVEL AERATOR AND SPRAY. PROVIDE DISHINKERATOR EVOLUTION 3/4 HP, 8.1 AMP, GARBAGE DISPOSAL.
TD	TRENCH DRAIN			4"		EQUAL TO ACO K100 CHANNEL SLOPE TRENCH DRAIN SYSTEM WITH TYPE 461Q DUCTILE QUICKLOC CAST IRON GRATE.
CB	CATCH BASIN			4"		EQUAL TO ACO K900 CATCH BASIN, WITH PLASTIC TRASH BUCKET WITH TYPE 461Q DUCTILE QUICKLOC CAST IRON GRATE FOR UD.



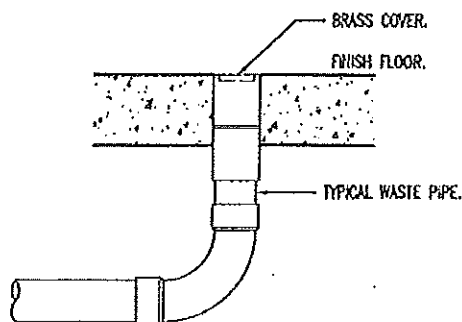
VENT THROUGH ROOF DETAIL

SCALE: NONE



FLOOR DRAIN DETAIL

SCALE: NONE



FLOOR CLEANOUT DETAIL

SCALE: NONE

MECHANICAL NOTES

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

SPLIT-SYSTEM APPURTENANCES

F HVAC: MULTI-ZONE DUCTLESS HEAT PUMP - CARRIER OR EQUAL

OUTDOOR UNIT:
(ONE) 36GJK48----3, 16 SEER 9.56 EER.
(TWO) MULTI 3 PORT BRANCH BOX P/H KSAU0401AAA.
(ONE) INDOOR GRILL 40GJ001C----
INSULATED LINE SET - 1/4" X 3/8" P/H MS143825. LENGTHS AS REQUIRED.
OUTDOOR UNIT PAD P/H 3030P (30" x 30" x 2" PAD).

103 HALLWAY
(ONE) 40GJB12C----3, 16 SEER 12K CASSETTE
(ONE) REMOTE KSACN0201AAA THERMOSTAT.

104 OFFICE
(ONE) 40GJB12C----3, 16 SEER 12K CASSETTE
(ONE) REMOTE KSACN0201AAA THERMOSTAT.

105 OFFICE
(ONE) 40GJB12C----3, 16 SEER 12K CASSETTE
(ONE) REMOTE KSACN0201AAA THERMOSTAT.

106 RR
(ONE) 40GJB12C----3, 16 SEER 12K CASSETTE
(ONE) REMOTE KSACN0201AAA THERMOSTAT.

107 RR
(ONE) 40GJB12C----3, 16 SEER 12K CASSETTE
(ONE) REMOTE KSACN0201AAA THERMOSTAT.

108 BREAK ROOM
(TWO) 40GJB12C----3, 16 SEER 12K CASSETTE
(ONE) REMOTE KSACN0201AAA THERMOSTAT.

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 IBC PLUMBING CODE.
- ROOF VENTS SHALL BE COINTEGRATED 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 BY PLENUM AS REQUIRED BY CODE. SECURE AS REQUIRED.
- EXTERIOR BELOW GROUND WATER DISTRIBUTION PIPING SHALL RUN A MINIMUM OF 36" BELOW FINISH GRADE.
- CONTRACTOR TO PROVIDE 2" BACK FLOW PREVENTER & PRESSURE REDUCING VALVE IN 101 TRUCK WASH 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 REQ'D. FOR THE REFRIGERATOR'S ICE MAKER. SHUT-OFF TO BE INSIDE WALL COVERED BY KARP BRAND 8" x 8" HANDI-ACCESS PLASTIC ACCESS PANEL. WATER LINE TO BE THROUGH FINISHED WALL WITH CHROME ESCUTCHEON.

A
24

PLUMBING & MECHANICAL NOTES

SCALE: NONE

Plumbing & Mechanical Notes

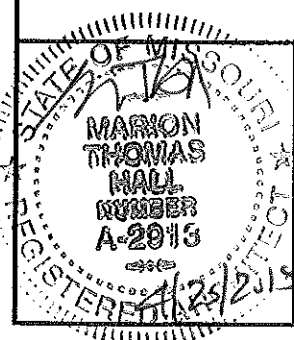
MISSOURI DEPARTMENT
OF TRANSPORTATION

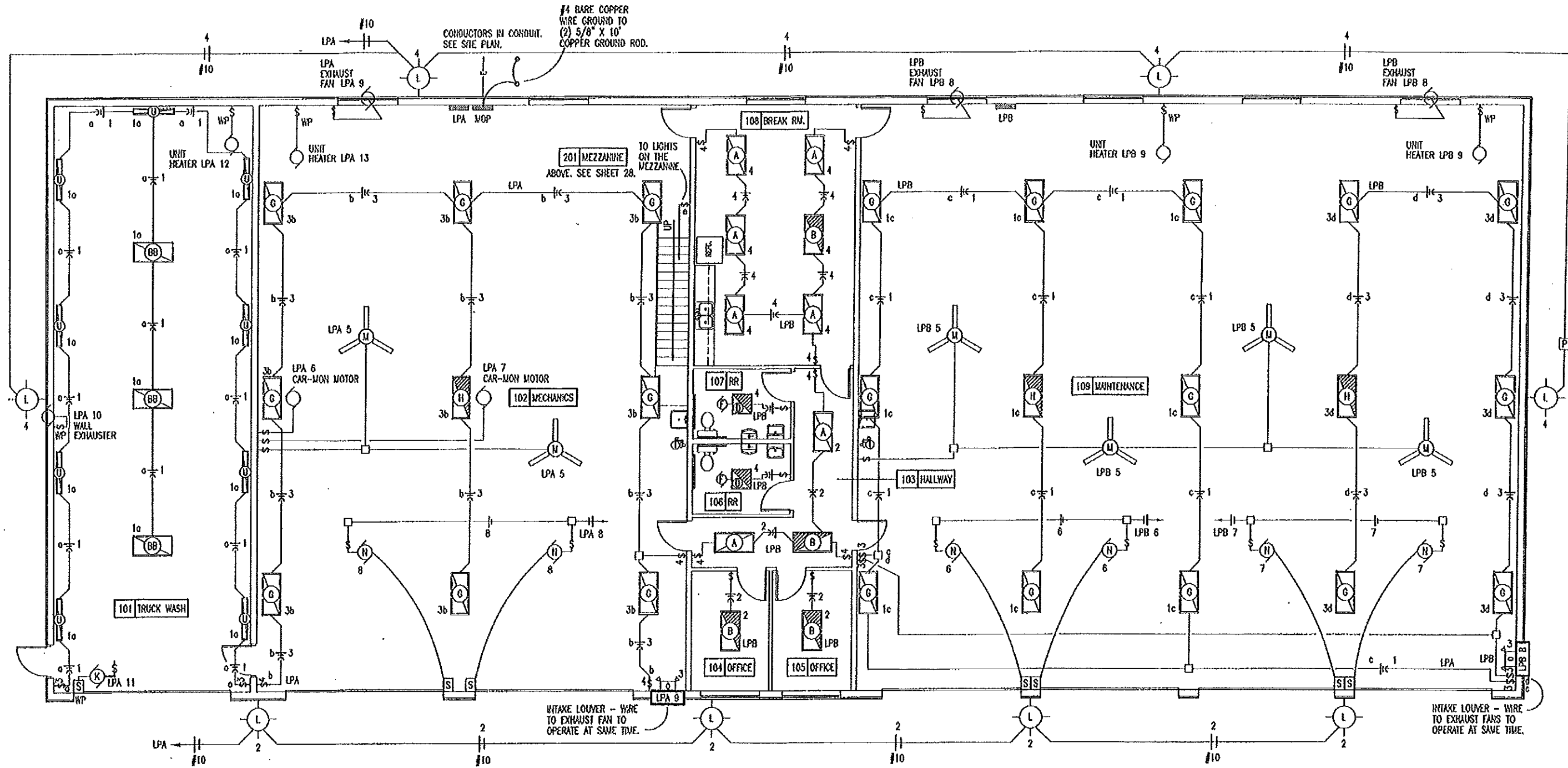
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

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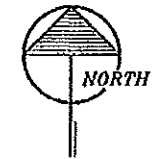
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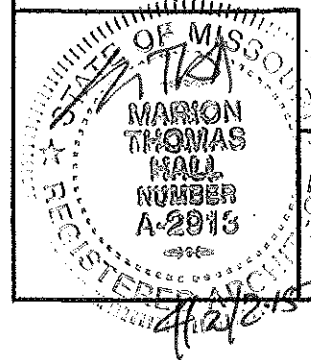




A LIGHTING PLAN
25 SCALE: 3/32" = 1'-0"



SEE ELECTRICAL SCHEDULE
& NOTES SHEETS 27 & 28.



LIGHTING PLAN

MISSOURI DEPARTMENT
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FACILITIES MANAGEMENT

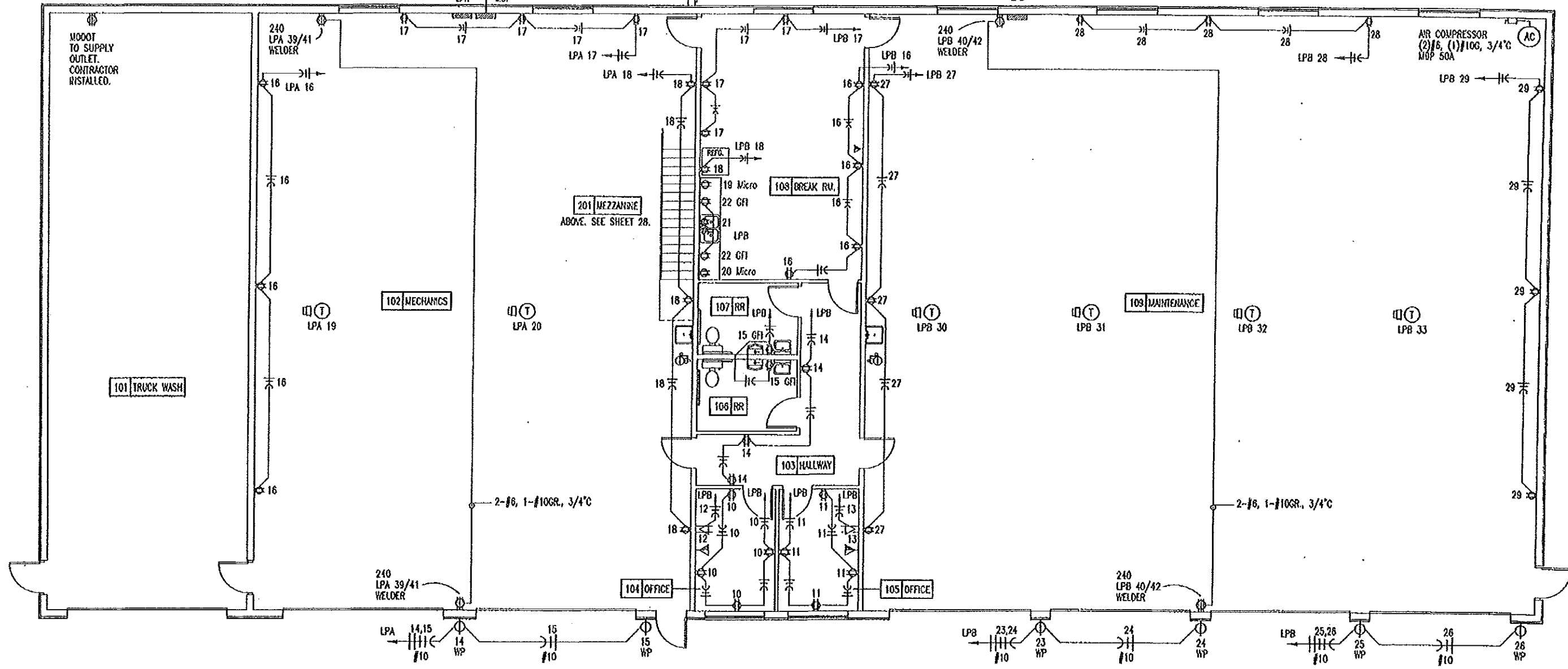
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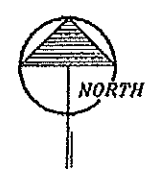
208/240 HOT WATER
PRESSURE CLEANER
LPA 35/37
CONDUCTORS IN CONDUIT AS REQUIRED.

SEE SITE PLAN.

HEAT PUMP
MDP 50A



A POWER PLAN
26 SCALE: 3/32" = 1'-0"



SEE ELECTRICAL SCHEDULE
& NOTES SHEETS 27 & 28.

STATE OF MISSOURI
MARION THOMAS
REGISTERED ELECTRICAL ENGINEER
NUMBER A-2013
2/15/2015

POWER PLAN

MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

King City Maintenance Building
9990 Highway 169, King City, MO 64463
Northwest District - DeKalb County

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ELECTRIC SCHEDULE

MANUF.	MODEL	LAMPS TYPE	W	MNT	REMARKS
WILLIAMS	50G-S24-LED/UT 50/835- RPC12125-ED/UT-UNV	LED	51	CLG	24" x 48" STATIC TROFFER FIXTURE, HOUSING: 22 GAUGE DIE FORMED C.R.S. SHIELDING: FROSTED ACRYLIC, PATTERN #12.
WILLIAMS	50G-S24-LED/UT 50/835- RPC12125-EV/BSL310- ED/UT-UNV	LED	51	CLG	24" x 48" STATIC TROFFER FIXTURE, HOUSING: 22 GAUGE DIE FORMED C.R.S. SHIELDING: FROSTED PATTERN #12 & EMERGENCY DRIVER.
WILLIAMS	50G-S22-LED/UT30/85- RPC12125-EV/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.
BROWN	GRANGER #4C772			CLG	80 CFM CEILING MOUNT BATHROOM VENTILATOR.
WILLIAMS	GL-4-L200/840-WG11- DRV-UNV	LED	174	CLG	14-3/16" x 48" DIE-FORMED ALUMINUM HOUSING WITH WIRE GUARD.
WILLIAMS	GL-4-L200/840-EV/ BSL310-WG11-DRV-UNV	LED	174	CLG	14-3/16" x 48" DIE-FORMED ALUMINUM HOUSING WITH WIRE GUARD. BACK MOUNTED EMERGENCY LED DRIVER.
	OVERHEAD DOOR OPERATOR			WALL	115V, 1-PH, HOOD MOUNT TYPE CONVEYER IN CARWASH & TROLLEY TYPE IN MAINTENANCE. SEE SPECIFICATION SECTION 08720.
ATLAS	WLM43LED	LED	43	WALL	EXTERIOR, SURFACE MOUNT LIGHT FIXTURE, WITH ALUMINUM HOUSING. GLARE FREE LENS.
DAYTON	GRANGER #5NPZ3			CLG	SINGLE-SPEED, 48" THREE-BLADE, HEAVY DUTY CONVEYER CEILING FAN.
	OVERHEAD DOOR OPERATOR			WALL	115V, 1-PH, TROLLEY TYPE. SEE SPECIFICATION SECTION 08720.
LITHONIA	LHQ4 P W3 R N			WALL	QUANTUM THERMOPLASTIC EXIT/UNIT COMBO (2) LED 5.4 KRYPTON LAMPS.
TORK	2001			WALL	120V PHOTO ELECTRIC CONTROL OF EXTERIOR LIGHTS.
	OVERHEAD DOOR CONTROL			WALL	THREE BUTTON OVERHEAD DOOR CONTROL AS SUPPLIED BY OVERHEAD DOOR MANUF. SEE SPECIFICATION SECTION 08720.
REELCRAFT	L 4050 163 I			CLG	CEILING MOUNTED SPRING RETRACTABLE, ELECT. CORD REEL WITH INCANDESCENT LAMP & THREE PRONG OUTLET PLUG.
WILLIAMS	98-4-L40/830-HVFR- WET/2-DRV-UNV	LED	40	WALL	7-3/8" x 48" MOISTURE RESISTANT, FIBERGLASS HOUSING, FROSTED IMPACT-RESISTANT LENS. POLYCARBONATE TOGGLE LATCHES.
WILLIAMS	EGL2-4-L145/830-HVFR- WET/2-SSURB-DRV-UNV	LED	142	CLG	15" x 48" DAMP LOCATION, FIBERGLASS HOUSING, FROSTED IMPAT-RESISTANT. SECURE LOCKING PLASTIC LATCHES.

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

SERVICE PANEL LPA

SERVICE PANEL LPA									
MAIN BUS: 225A MLO VOLTS: 240/120, 1PH, 3-WIRE BUS MATERIAL: COPPER MOUNTING: SURFACE			SQUARE "D" HOOD OR EQUAL W/ NEUTRAL BUS & GROUNDING BUS CIRCUIT BREAKERS BOLT-IN 10000 AC				CONNECTED LOAD A PHASE 18827 VA B PHASE 21585 VA TOTAL 40412 VA 168 A		
OR	SERVICE	VA	BKR		BKR	VA	SERVICE		OR
1	LIGHTS - 101 TRUCK WASH	786	20A1P	A	20A1P	172	EXTERIOR LIGHTING		2
3	LIGHTS - 102 MECHANICS	1572	20A1P	B	20A1P	172	EXTERIOR LIGHTING		4
5	CEILING FANS	156	20A1P	A	20A1P	1553	CARBON MONOXIDE		6
7	CARBON MONOXIDE	1553	20A1P	B	30A1P	2162	GARAGE DOOR OPENERS		8
9	EXHAUST FAN & LOUVER	813	20A1P	A	20A1P	804	WALL EXHAUSTER		10
11	ORD - OPERER	1081	20A1P	B	20A1P	863	UNIT HEATER		12
13	UNIT HEATER	1081	20A1P	A	20A1P	1000	EXTERIOR RECEPTACLE	⊗	14
15	EXTERIOR RECEPTACLE	⊗ 1000	20A1P	B	20A1P	540	102 RECEPTACLES	⊗	16
17	102 RECEPTACLES	⊗ 540	20A1P	A	20A1P	540	102 RECEPTACLES	⊗	18
19	102 CORD REEL	⊗ 540	20A1P	B	20A1P	540	102 CORD REEL	⊗	20
21	MEZZANINE LIGHTING	204	20A1P	A	20A1P	720	MEZZANINE RECEPTACLES		22
23				B					24
25				A					26
27				B					28
29				A					30
31				B					32
33				A					34
35	PRESSURE CLEANER	3910	50A2P	B					36
37		3910		A					38
39	101 - WELDER MECHANICS	4500	50A2P	B	30A2P	2600	WATER HEATER		40
41		4500		A		2600			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. USE ONLY COPPER INSIDE BUILDING.
- FIXTURE LOCATIONS ARE APPROXIMATE, EXACT LOCATIONS TO BE DETERMINED AFTER COLLABORATION WITH THE OWNER AND OTHER TRADES.

SERVICE PANEL LPB

SERVICE PANEL LPB									
SQUARE "D" HOOD OR EQUAL VOLTS: 240/120, 1PH, 3-WIRE BUS MATERIAL: COPPER MOUNTING: SURFACE			SQUARE "D" HOOD OR EQUAL W/ NEUTRAL BUS & GROUNDING BUS CIRCUIT BREAKERS BOLT-IN 10000 AC				CONNECTED LOAD A PHASE 17230 VA B PHASE 17411 VA TOTAL 34641 VA 144 A		
CIR	SERVICE	VA	BKR		BKR	VA	SERVICE		CIR
1	LIGHTS - 109 MAINTENANCE	1572	20A1P	A	20A1P	255	LIGHTS - OFFICES & HALLWAY		2
3	LIGHTS - 109 MAINTENANCE	1050	20A1P	B	20A1P	380	LIGHTS - RR'S & BREAK ROOM		4
5	CEILING FANS	312	20A1P	A	30A1P	2162	GARAGE DOOR OPENERS		6
7	GARAGE DOOR OPENERS	2162	30A1P	B	20A1P	1579	EXHAUST FANS & LOUVER		8
9	UNIT HEATERS	697	20A1P	A	20A1P	720	104 OFFICE RECEPTACLES		10
11	105 OFFICE RECEPTACLES	720	20A1P	B	20A1P	180	104 DEDICATED RECEPTACLE		12
13	105 DEDICATED RECEPTACLE	180	20A1P	A	20A1P	540	HALLWAY RECEPTACLES		14
15	REST ROOM GFI's	360	20A1P	B	20A1P	720	BREAK ROOM RECEPTACLES		16
17	BREAK ROOM RECEPTACLES	540	20A1P	A	20A1P	600	REFRIGERATOR		18
19	MICROWAVE - SOUTH	800	20A1P	B	20A1P	800	MICROWAVE - NORTH		20
21	CARBAGE DISPOSAL	972	20A1P	A	20A1P	360	BREAK ROOM GFI's		22
23	EXTERIOR RECEPTACLE	1000	20A1P	B	20A1P	1000	EXTERIOR RECEPTACLE		24
25	EXTERIOR RECEPTACLE	1000	20A1P	A	20A1P	1000	EXTERIOR RECEPTACLE		26
27	109 RECEPTACLES	540	20A1P	B	20A1P	540	109 RECEPTACLES		28
29	109 RECEPTACLES	540	20A1P	A	20A1P	540	109 CORD REEL		30
31	109 CORD REEL	540	20A1P	B	20A1P	540	109 CORD REEL		32
33	109 CORD REEL	540	20A1P	A					34
35				B					36
37				A					38
39				B	50A2P	4500	109 - WELDER MAINTENANCE		40
41				A		4500			42

⊗ CIRCUIT BREAKER SHALL BE GFI RATED

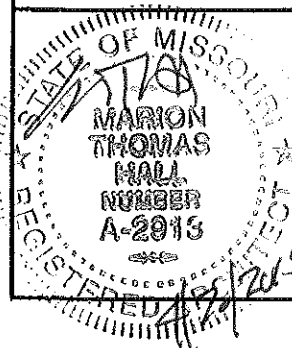
- CONTRACTOR SHALL PROVIDE SERVICE DISCONNECTS AS REQUIRED AT EXTERIOR OF BUILDING.
- PROVIDE BLOCKING FOR ELECTRICAL DEVICES AS REQUIRED FOR A SECURE APPLICATION.
- PROVIDE CONDUCTORS AND CONDUIT TO TRANSFORMER 100'-0"± TO POLE EAST OF NEW BUILDING AS REQUIRED FOR A FUNCTIONAL SERVICE.

ELECTRICAL PANELS

MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

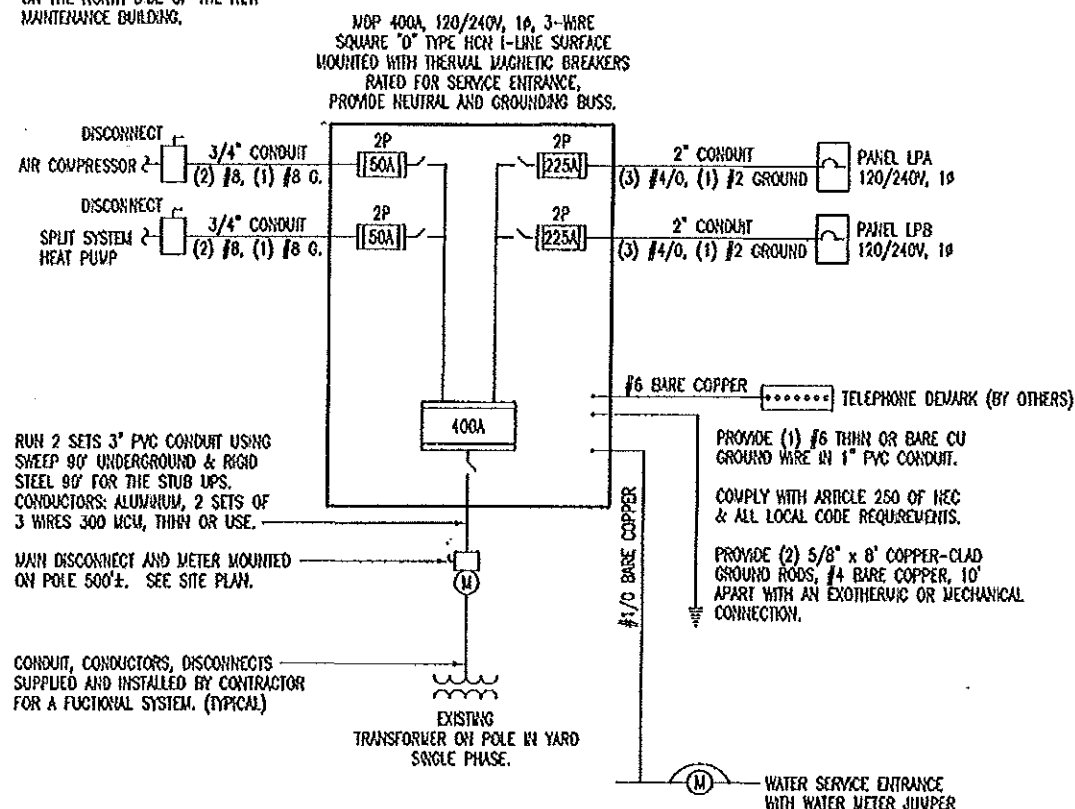
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CONTRACTOR NOTES

NOTED TO HAVE IN PLACE A 400A DISCONNECT AND METER AT A POWER POLE (PP) LOCATED 50'± SOUTHWEST OF THE OLD MAINTENANCE BUILDING. THE CONTRACTORS WORK TO BEGIN FROM THAT POINT WITH CONDUCTORS IN CONDUIT TO THE (MDP) LOCATED ON THE NORTH SIDE OF THE NEW MAINTENANCE BUILDING.



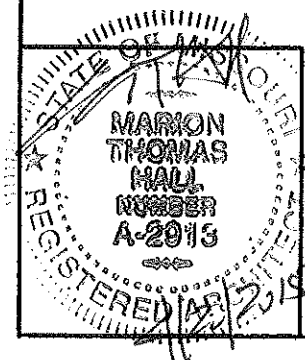
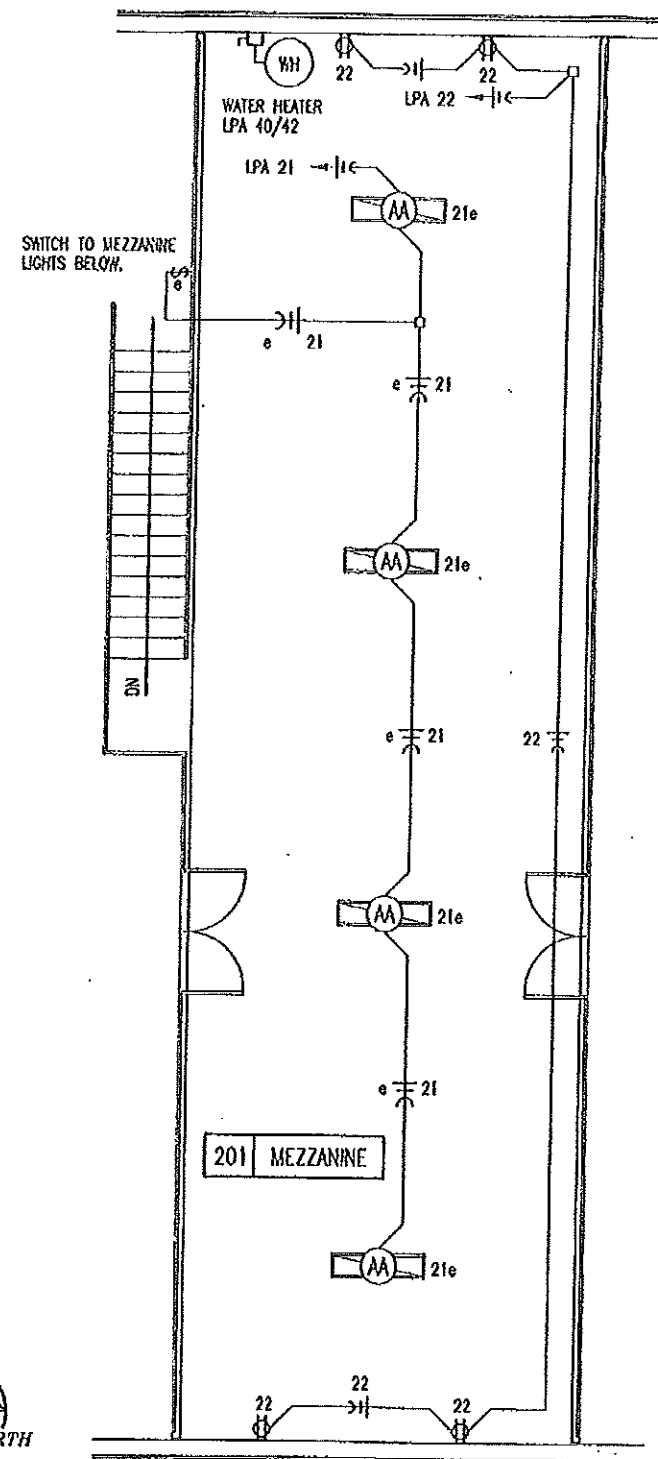
NEW MAINTENANCE POWER DISTRIBUTION DIAGRAM

MTS

LEGEND

- \$ WP SINGLE POLE OR 3-WAY SWITCH, MOUNT IN FS BOX WITH HUBBELL HBL7420 COVER.
- Φ WP DUPLEX RECEPTACLE MOUNTED IN FS BOX WITH HUBBELL HBL5221 COVER.
- Φ 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.
- Φ DUPLEX RECEPTACLE FLUSH MOUNTED IN FINISHED AREAS @ 18" A.F.F. TO BOTTOM OF OUTLET.
- Φ DUPLEX RECEPTACLE SURFACE MOUNTED IN UNFINISHED AREAS @ 42" A.F.F.
- Φ WELDER RECEPTACLE SURFACE MOUNTED 42" A.F.F., MOUNT IN 4" SQUARE BOX WITH RAISED COVER.
- Φ GFI DUPLEX RECEPTACLE WITH GROUND FAULT INTERRUPTER. PROVIDE SEPARATE GROUND PER CIRCUIT, TYPICAL.
- JUNCTION BOX, SIZE FOR WIRE, FILL ACCORDING TO ARTICLE 314-16 OF THE N.E.C.
- NON FUSED DISCONNECT SWITCH.
- Y 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" EMT UNLESS NOTED.
- #12 COPPER GROUNDING CONDUCTOR UNLESS NOTED.

MEZZANINE
ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"



POWER DISTRIBUTION DIAGRAM

MISSOURI DEPARTMENT
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