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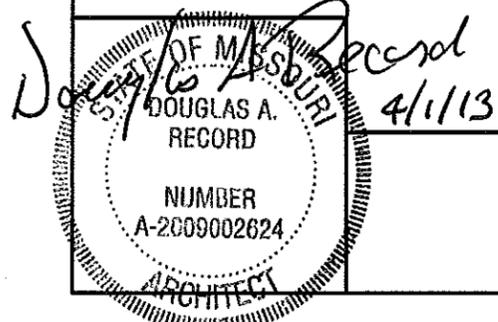
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MISSOURI DEPARTMENT OF TRANSPORTATION

Bolivar Maintenance Building Renovation
Southwest District
2816 West Broadway
Polk County

CODE REQUIREMENTS

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



COVER SHEET

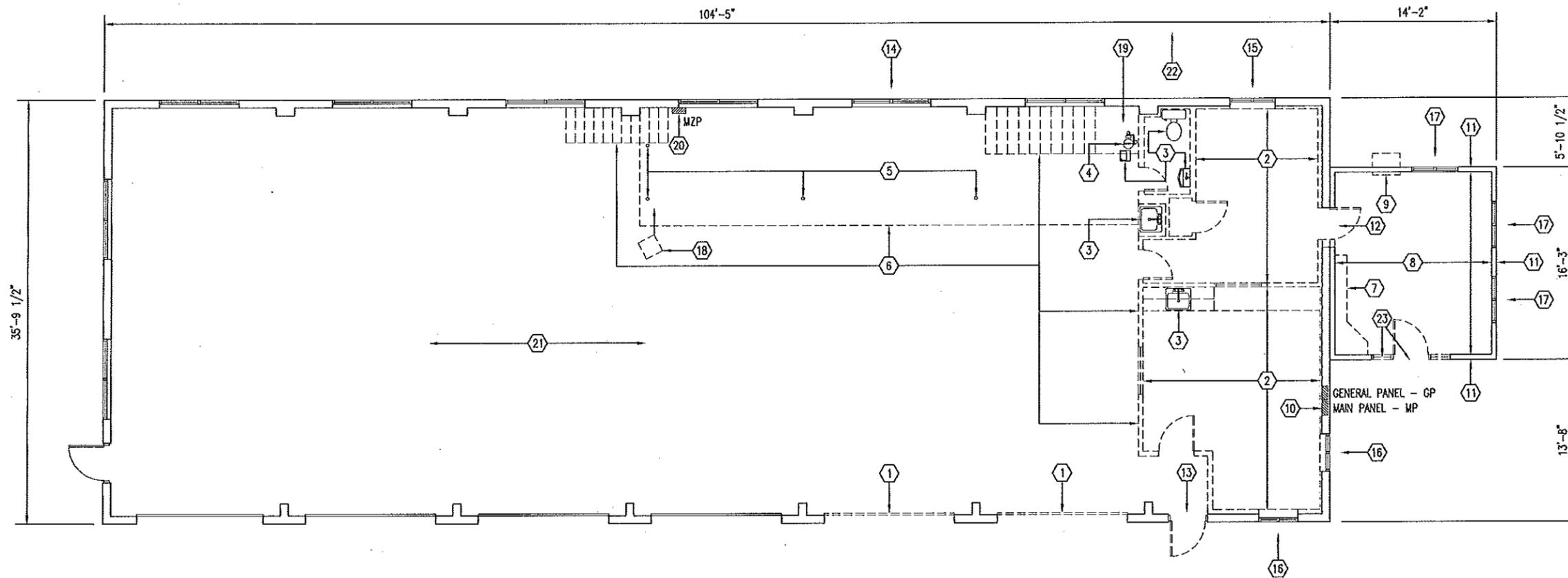
MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

BOLIVAR MAINTENANCE BUILDING RENOVATION
2816 West Broadway
Southwest District - Polk County

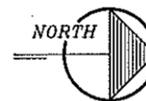
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DATE: 3-29-13
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DEMOLITION NOTES

- ① REMOVE 11'-1" WIDE x 11'-2" TALL SECTIONAL OVERHEAD GARAGE DOOR, TRACK OPERATOR AND SWITCH. RETURN TO OWNER.
- ② REMOVE EXISTING INTERIOR WOOD PARTITION WALLS, INTERIOR WINDOWS, WOOD DOORS, FIBERGLASS INSULATION, CEILING TILES WITH GRID, WOOD PANELING, HVAC DUCTWORK & VINYL FLOOR COVERING. REMOVE ELECTRICAL CONDUCTORS, CONDUIT, LIGHTING, SWITCHES BACK TO SERVICE PANELS. DISCARD ALL DEBRIS OFF-SITE.
- ③ REMOVE EXISTING PLUMBING APPLIANCES & RETURN TO OWNER. REMOVE EXISTING WATER SUPPLY LINE BACK TO WHERE WATER ENTERS THE BUILDING. REMOVE EXISTING VENT STACK. PATCH ROOF ETC. WITH LIKE MATERIALS. REMOVE VINYL FLOOR COVERING. REMOVE WALL HEATER AND RETURN TO OWNER.
- ④ RELOCATE EYE WASH/SHOWER. SEE PLUMBING PLAN. REMOVE THE EXISTING WATER SUPPLY LINE BACK TO WHERE WATER ENTERS THE BUILDING.
- ⑤ REMOVE EXISTING STEEL BEAM THAT SUPPORTS THE MEZZANINE ALONG WITH 3" DIA. SUPPORT COLUMNS.
- ⑥ REMOVE EXISTING MEZZANINE FLOOR, TWO WOOD STAIRCASES, FLOOR JOISTS, GAS FURNACE AND DUCTWORK. REMOVE ELECTRICAL CONDUCTORS, CONDUIT, LIGHTING, SWITCHES BACK TO PANEL BOARDS. DISCARD ALL DEBRIS OFF-SITE. REMOVE THE FARTHEST NORTH GAS UNIT HEATER & RETURN TO OWNER. CAP GAS SUPPLY LINE. PATCH THE GAS EXHAUST VENT HOLE IN ROOF AS REQUIRED WITH LIKE MATERIALS. REMOVE WATER HEATER ON MEZZANINE AND RETURN TO OWNER. REMOVE RELATED WATER LINES AND CAP AS REQUIRED. RETURN LIGHTING FIXTURES TO OWNER.
- ⑦ REMOVE EXISTING WOOD CASEWORK AND RETURN TO OWNER.
- ⑧ REMOVE EXISTING INTERIOR WOOD PANELING ON WALLS, WOOD PASSAGE DOOR, FIBERGLASS WALL INSULATION, CEILING TILES WITH GRID AND HVAC DUCTWORK. REMOVE ELECTRICAL CONDUCTORS, CONDUIT, LIGHTING, SWITCHES BACK TO PANEL BOARDS. DISCARD ALL DEBRIS OFF-SITE. EXISTING CERAMIC FLOOR TILE TO REMAIN.
- ⑨ REMOVE EXISTING PTAC UNIT AND RETURN TO OWNER. INFILL WALL WITH 2x's AND EXTERIOR SHEATHING AS REQUIRED FOR NEW CONSTRUCTION.
- ⑩ EXISTING MAIN PANEL (MP) AND GENERATOR PANEL (GP) TO REMAIN. REMOVE AND DISCARD BREAKERS. SEE THE ELECTRICAL PLAN.
- ⑪ REMOVE EXISTING VINYL SIDING, CORNER TRIM ETC. AND BUILDING WRAP. DISCARD ALL DEBRIS OFF-SITE.
- ⑫ REMOVE EXISTING DOOR, FRAME, WALL PORTION AND HEADER AS REQUIRED FOR PLACEMENT OF NEW 3'-0" x 6'-8" PASSAGE DOOR. SHORING AND CMU AS REQ'D.
- ⑬ REMOVE EXISTING PASSAGE DOOR AND FRAME. RETURN TO OWNER.
- ⑭ REMOVE EXISTING 81" x 32" SLIDING WINDOW. RETURN TO OWNER.
- ⑮ REMOVE EXISTING 44-1/2" x 44-1/2" CASEMENT WINDOW. RETURN TO OWNER.
- ⑯ REMOVE EXISTING 40" x 46-1/2" CASEMENT WINDOW. RETURN TO OWNER.
- ⑰ REMOVE EXISTING 47" x 45-1/2" CASEMENT WINDOW. RETURN TO OWNER.
- ⑱ RELOCATE GAS UNIT HEATER, VENTING THROUGH ROOF AND SERVICE LINE TO THE WEST NEAR NEW STAIRS TO MEZZANINE AS REQUIRED FOR AN OPERABLE SERVICE. LEAVE APPROPRIATE HEADROOM ON STAIRS. SEE PLUMBING AND MECHANICAL PLAN.
- ⑲ MODOT TO REMOVE EXISTING ICE MAKER AND STORE DURING CONSTRUCTION. THE PLUMBING CONTRACTOR IS TO CONNECT 1/2" COPPER WATER LINE TO ICE MAKER ALONG WITH 1/2" WATTS SERIES 7, IN-LINE BACKFLOW PREVENTER. SEE PLUMBING PLAN.
- ⑳ RELOCATE MEZZANINE SERVICE (MZP) TO NEW MEZZANINE FOR AN OPERABLE SERVICE. SEE MEZZANINE ELECTRICAL PLAN.
- ㉑ SEE SHEETS 23, 24 AND 26 FOR ELECTRICAL DEMOLITION. SEE SHEET 4 FOR CONCRETE SLAB DEMOLITION.
- ㉒ CONTRACTOR TO CAP EXISTING SANITARY SEWER INTO BUILDING AT MAIN LATERAL AS REQUIRED.
- ㉓ REMOVE PASSAGE DOOR AND SIDELIGHTS. RETURN TO OWNER. REUSE THRESHOLD. IF NOT SALVAGEABLE PROVIDE NEW ADA THRESHOLD AS REQUIRED. PREP FOR NEW DOOR AND SIDELIGHTS OF SAME WIDTH (FIELD VERIFY 6'-4"±).



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



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DEMOLITION PLAN

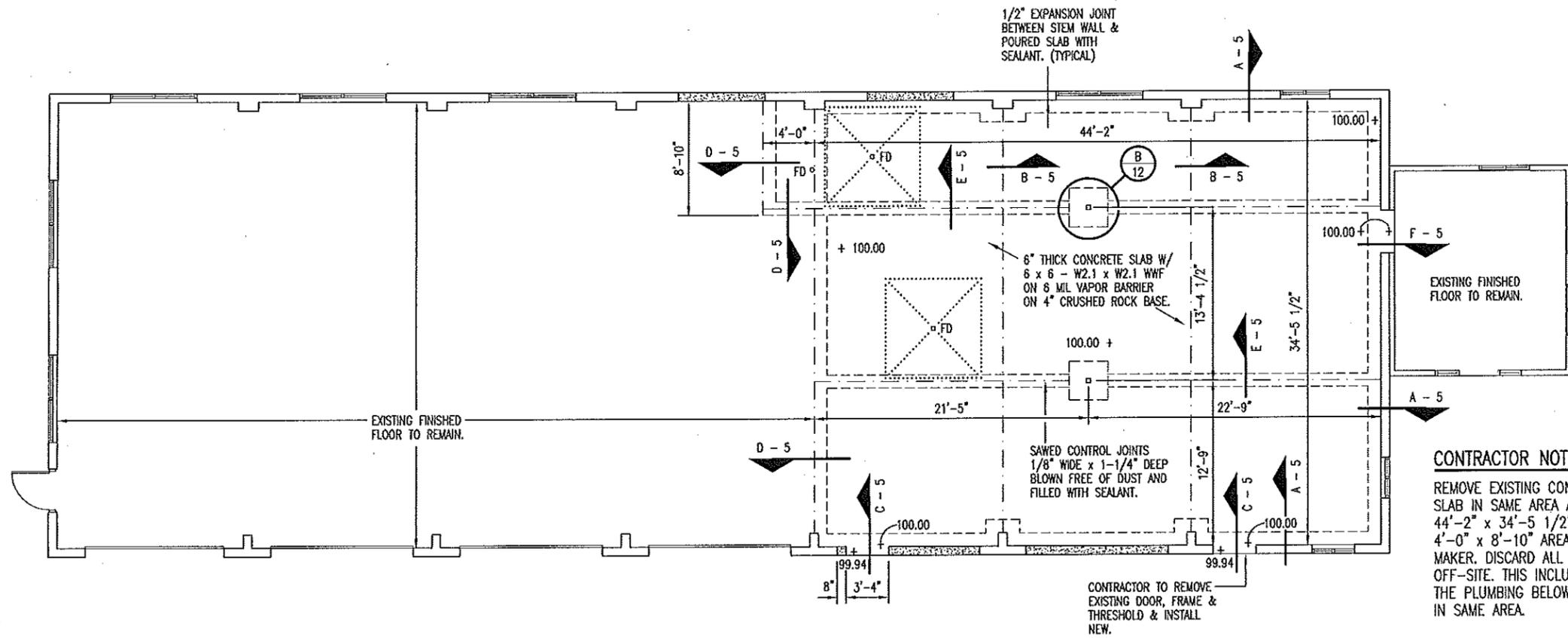
MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

BOLIVAR MAINTENANCE BUILDING RENOVATION
2816 West Broadway
Southwest District - Polk County

DESIGN BY: LARRY CARVER
DRAWN BY: LARRY CARVER
DATE: 3-29-13
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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. ALL CONCRETE SHALL BE TYPE 1 CEMENT WITH A COMPRESSIVE STRENGTH OF 4,000 PSI @ 28 DAYS WITH 4" SLUMP.
4. 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.
5. SAWED CONTROL JOINTS SHALL BE CLEANED FREE OF ALL DEBRIS AND FILLED WITH SEALANT. SEE SECTION 07900.
6. COPPER PIPING RUN THROUGH CONCRETE WORK SHALL BE RUN THROUGH PVC SLEEVES.
7. SEE SPECIFICATION SECTION 03300 CONCRETE FOR ADDITIONAL INFORMATION.



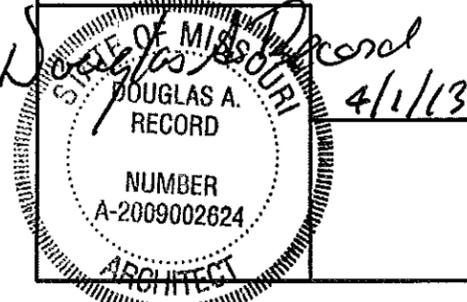
CONTRACTOR NOTE:
 REMOVE EXISTING CONCRETE SLAB IN SAME AREA AS NEW. 44'-2" x 34'-5 1/2" & THE 4'-0" x 8'-10" AREA AT ICE MAKER. DISCARD ALL DEBRIS OFF-SITE. THIS INCLUDES ALL THE PLUMBING BELOW SLAB IN SAME AREA.

SEE PLUMBING PLAN FOR FLOOR DRAINS WITH THEIR ROUTING.



CONCRETE SLAB PLAN

SCALE: 3/32" = 1'-0"

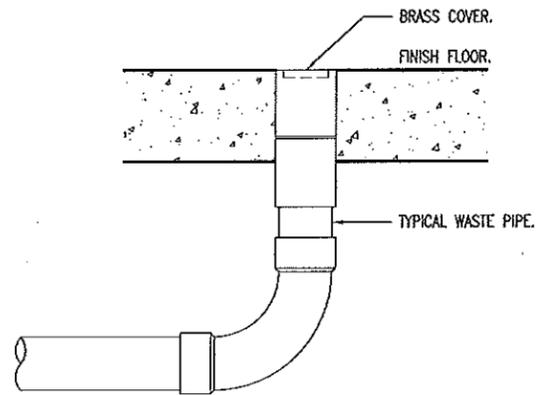


CONCRETE SLAB PLAN

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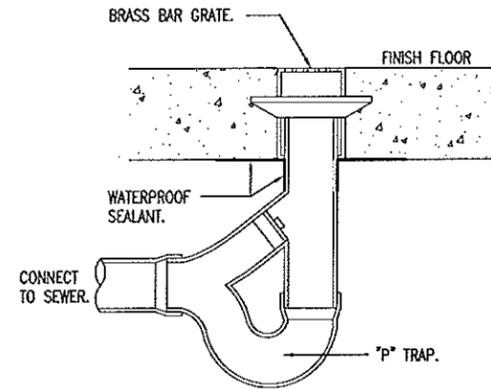
BOLIVAR MAINTENANCE BUILDING RENOVATION
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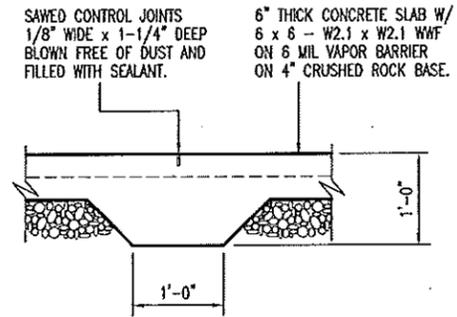
FLOOR CLEANOUT DETAIL

SCALE: NONE

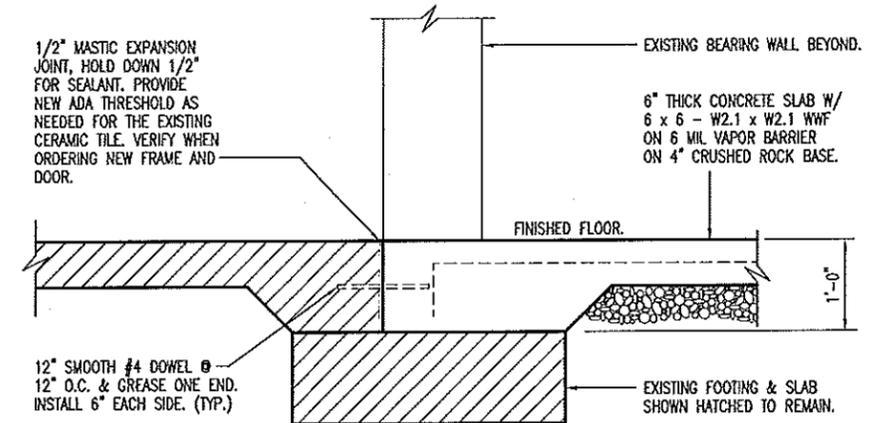


FLOOR DRAIN DETAIL

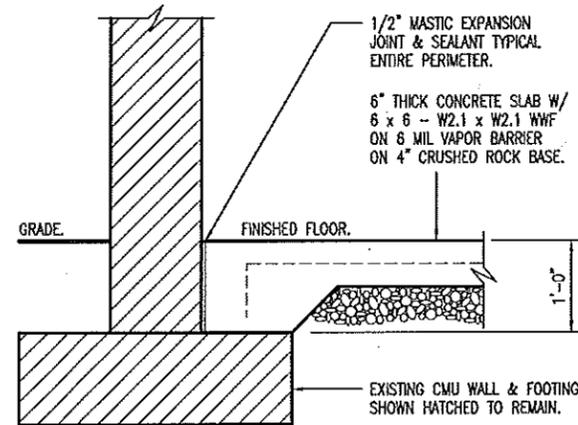
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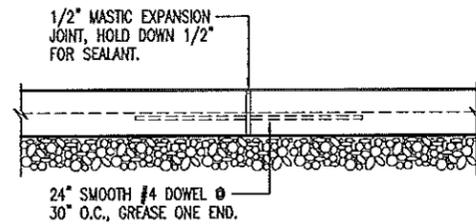
E THICKENED SLAB
SCALE: 1/2" = 1'-0"



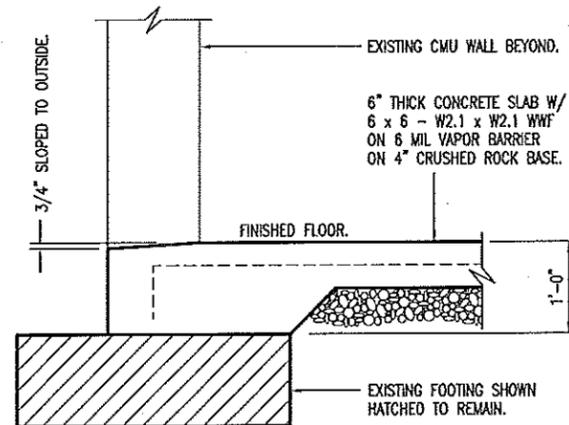
F THICKENED SLAB
SCALE: 1/2" = 1'-0"



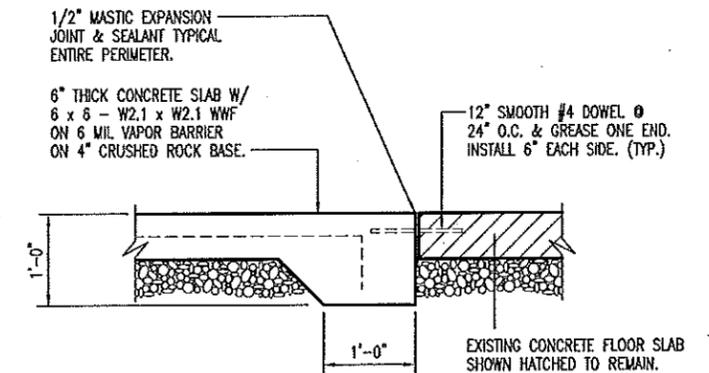
A THICKENED SLAB
SCALE: 1/2" = 1'-0"



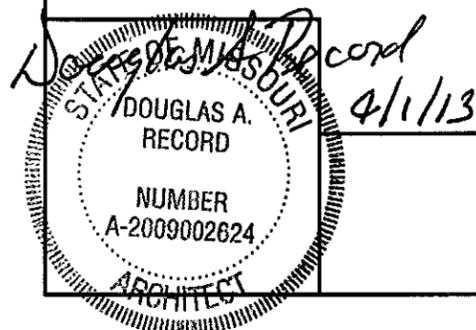
B EXPANSION JOINT
SCALE: 1/2" = 1'-0"



C THICKENED SLAB
SCALE: 1/2" = 1'-0"



D DOWELED SLAB
SCALE: 1/2" = 1'-0"

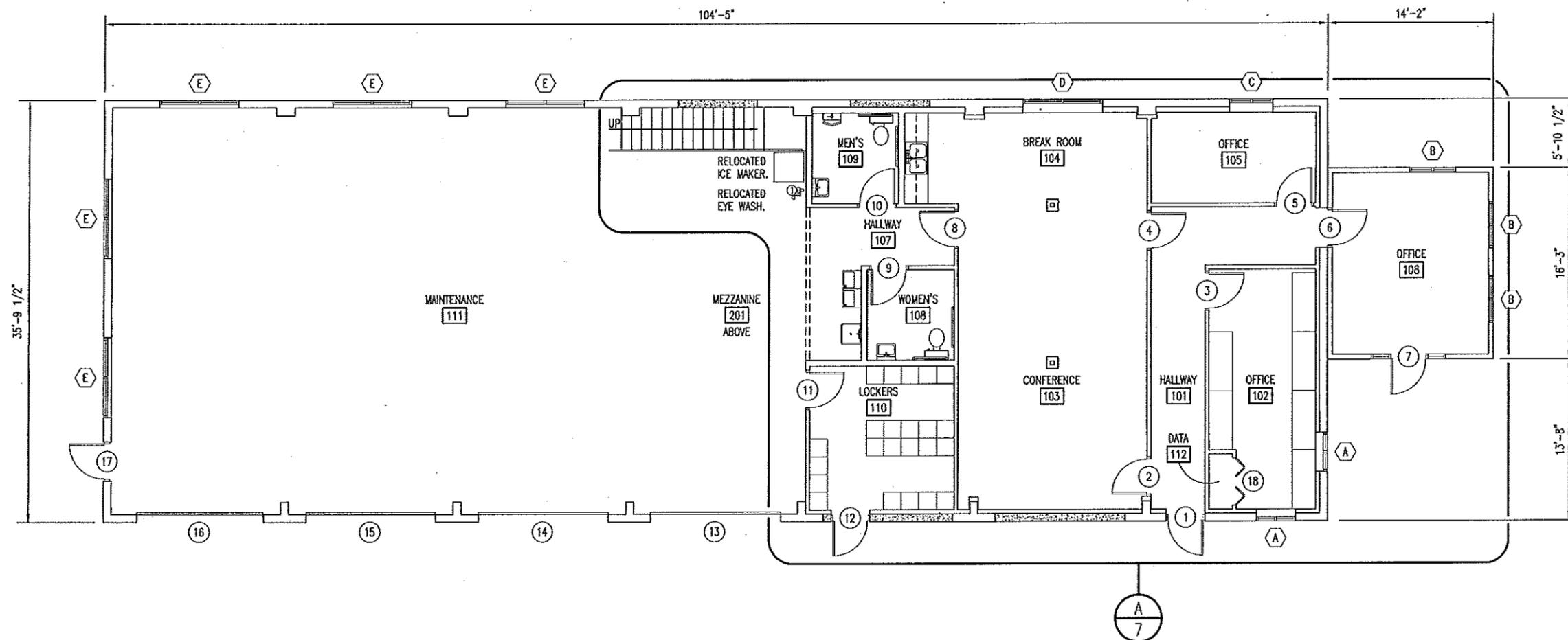


CONCRETE DETAILS

MISSOURI DEPARTMENT OF TRANSPORTATION
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A FLOOR PLAN
6 SCALE: 3/32" = 1'-0"



DOOR AND WINDOW SCHEDULE SHEET 9.

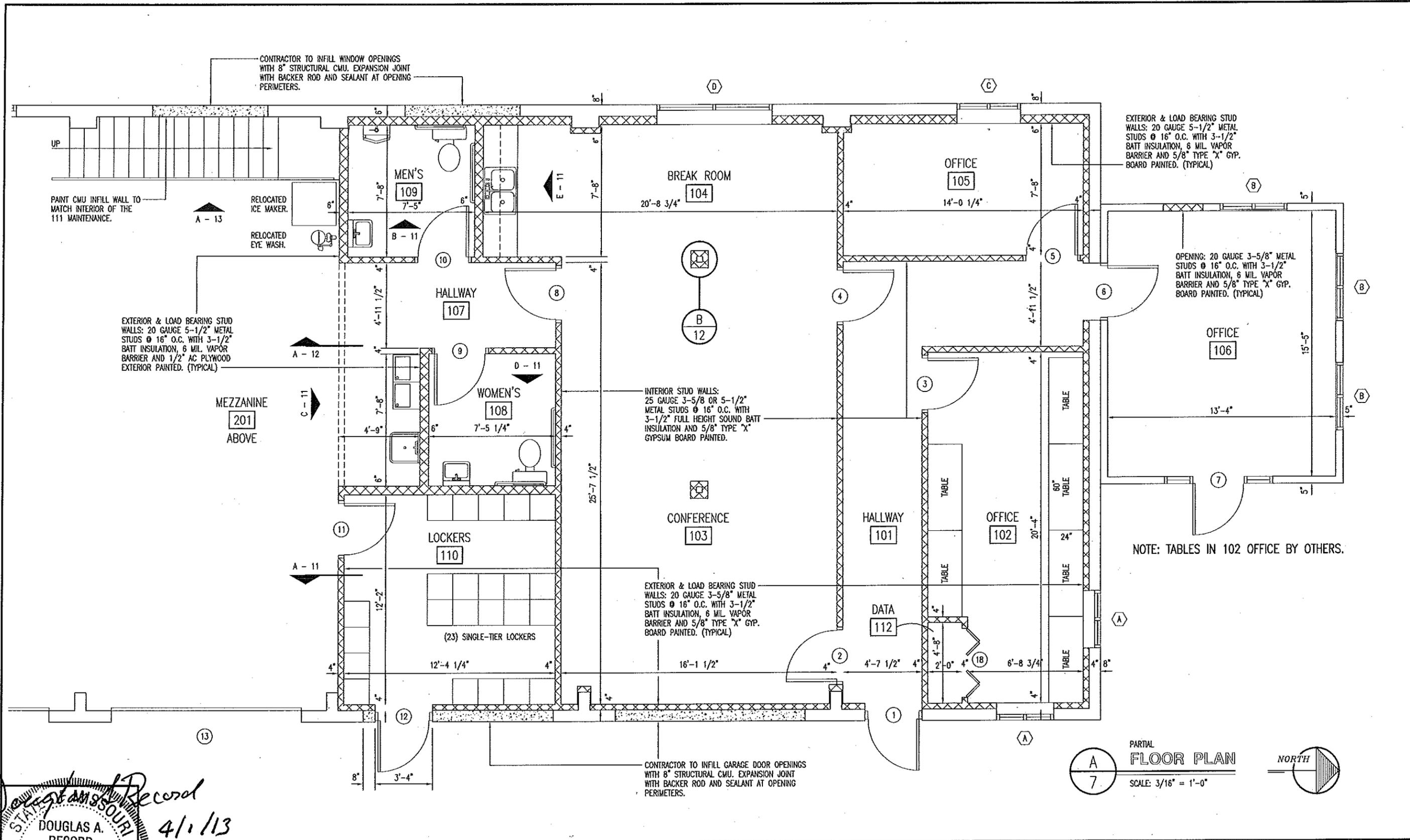
MISSOURI ARCHITECTS & ENGINEERS
 DOUGLAS A. RECORD
 NUMBER A-2009002624
 ARCHITECT
Record 4/11/13

FLOOR PLAN

MISSOURI DEPARTMENT
 OF TRANSPORTATION
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 Southwest District - Polk County

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PARTIAL FLOOR PLAN

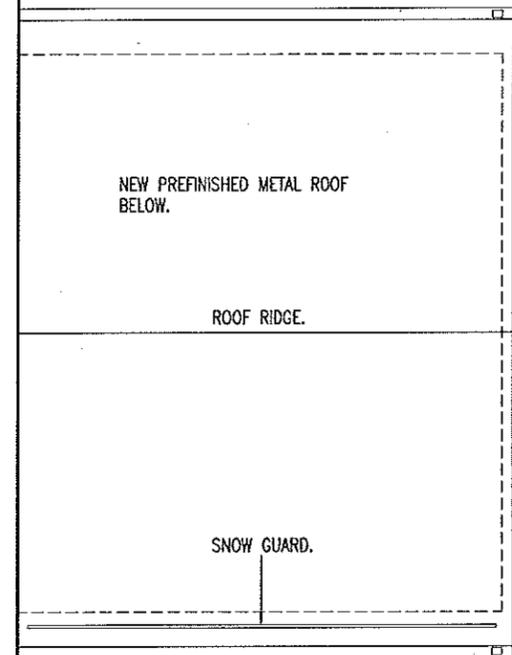
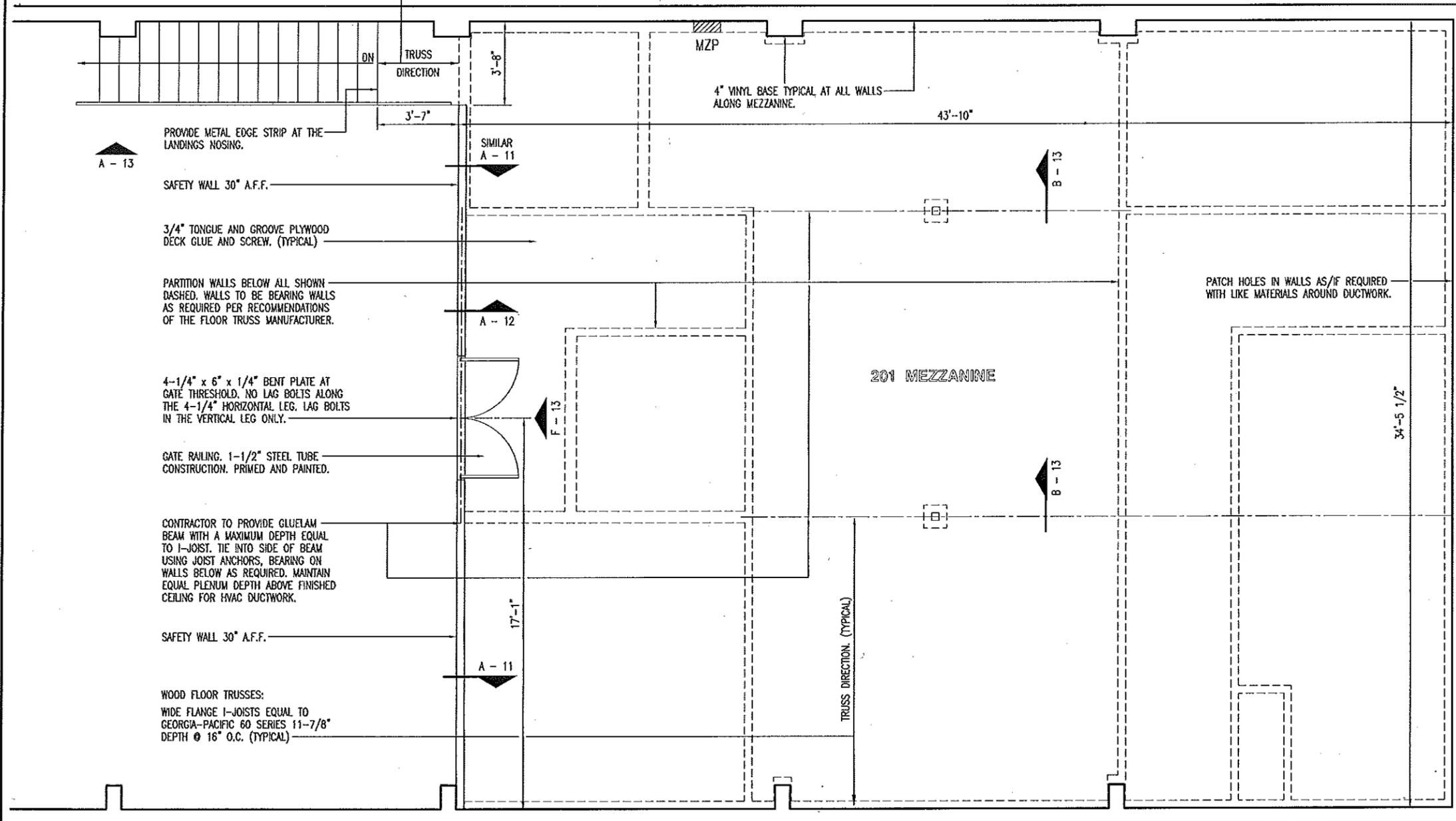
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LANDING WOOD FLOOR TRUSSES:
WIDE FLANGE I-JOISTS EQUAL TO
GEORGIA-PACIFIC 60 SERIES 11-7/8"
DEPTH @ 12" O.C. (TYPICAL)

NOTE:
CONTRACTOR TO ENSURE ALL LOAD
BEARING WALLS BEAR ON THICKENED
SLAB. SEE SHEET 5.



PROVIDE METAL EDGE STRIP AT THE
LANDINGS NOSING.

SAFETY WALL 30" A.F.F.

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

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

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

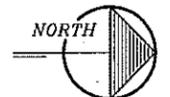
GATE RAILING. 1-1/2" STEEL TUBE
CONSTRUCTION. PRIMED AND PAINTED.

CONTRACTOR TO PROVIDE GUELAM
BEAM WITH A MAXIMUM DEPTH EQUAL
TO I-JOIST. TIE INTO SIDE OF BEAM
USING JOIST ANCHORS, BEARING ON
WALLS BELOW AS REQUIRED. MAINTAIN
EQUAL PLENUM DEPTH ABOVE FINISHED
CEILING FOR HVAC DUCTWORK.

SAFETY WALL 30" A.F.F.

WOOD FLOOR TRUSSES:
WIDE FLANGE I-JOISTS EQUAL TO
GEORGIA-PACIFIC 60 SERIES 11-7/8"
DEPTH @ 16" O.C. (TYPICAL)

A
8 MEZZANINE PLAN
SCALE: 3/16" = 1'-0"



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MEZZANINE PLAN

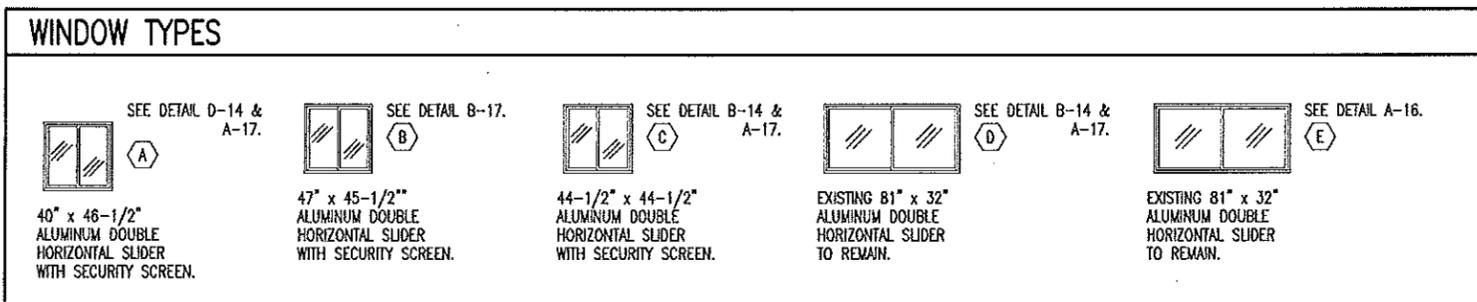
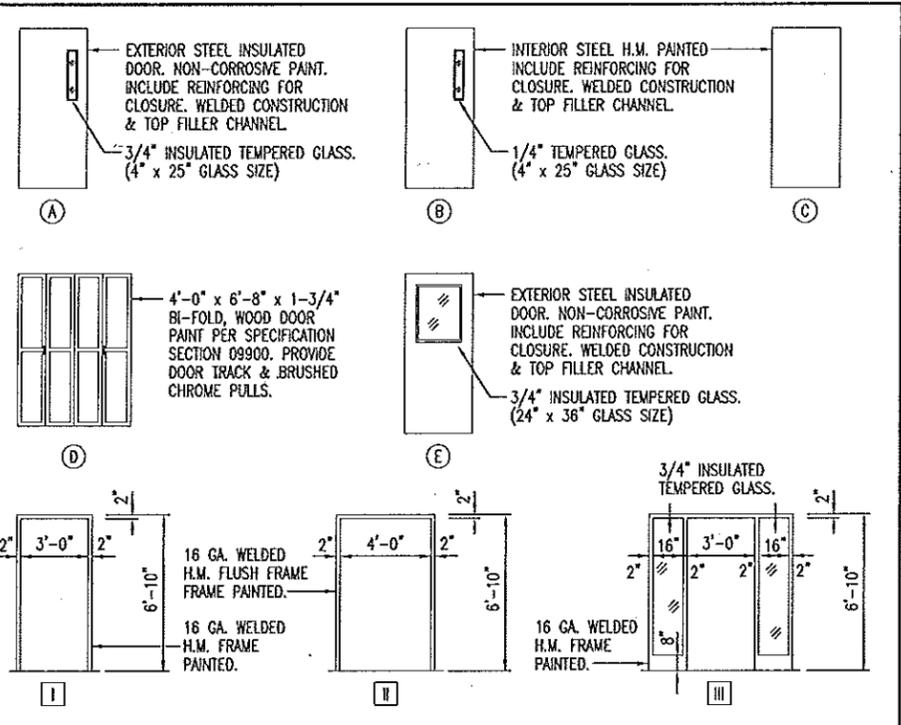
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DOOR SCHEDULE

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



HVAC SCHEDULE

SYM.	UNIT	MANUFACTURER	BTU OUTPUT	FUEL	VOLTAGE	REMARKS
A	GAS FURNACE/ FORCED AIR	CARRIER MODEL 59SP5A060E17--14 95%+ AFU OR EQUAL	58,000	PROPANE GAS & ELECTRIC	120	EVAPORATOR COIL -- CNPVP3017ATA 2" COMBINED CONCENTRIC KIT -- KGVAT0701CVT. AIR PURIFIER MERV 15 -- GAPAAXCC1625 HUMIDIFIER BY PASS TYPE -- HUMCCSBP2412 PROPANE KIT -- KGANP50011SP
B	CONDENSING UNIT	CARRIER MODEL 24ABB330A003 OR EQUAL	48,000	ELECTRIC	208/230	2.5-TON, PURON 208/230V 1-PHASE. 13 SEER AIR CONDITIONER.
C	THERMOSTAT 33CS2PP2S-02	CARRIER OR EQUAL	---	---	---	7 DAY PROGRAMMABLE.
D	MANUALLY OPERATED DAMPER IN RETURN DUCT	---	---	---	---	2 -- POSITION 5" Ø (VERIFY SIZE) DUCT FOR EXTERNAL VENTILATION AIR, 125 CFM. PROVIDE ALUMINUM LOUVER WITH BUG SCREEN AS REQUIRED.

GENERAL NOTES:

AT ALL INTERIOR WALL PARTITIONS THE GYPSUM BOARD MUST STOP JUST ABOVE THE TOP OF THE ACOUSTICAL CEILING GRID VERTICAL. KEEP THE PLENUM SPACE OPEN FOR RETURN AIR FOR THE HVAC.

CONTRACTOR TO INSTALL ALL NECESSARY FLASHING & DRIP TRIM TO PROVIDE A WEATHERPROOF & NEAT APPEARANCE AT ALL THE OVERHEAD SECTIONAL DOORS, PASSAGE DOORS, WINDOWS & CORNERS AS REQUIRED.

ROOM FINISHES TO BE PAINTED PER SPECIFICATION 09900.

FRAMED NORTH WALL IN MAINTENANCE AREA TO RECEIVE 1/2" AC PLYWOOD PAINTED PER SPECIFICATION 09900, & 4" VINYL BASE.

PROVIDE SOUND BATT INSULATION (NOT SHOWN) TYPICAL AT ALL INTERIOR STUD WALLS. SEE SPECIFICATION SECTION 07210.

PROVIDE BLOCKING BEHIND ALL ITEMS INCLUDING BUT NOT LIMITED TO PANELS MECHANICAL, ELECTRICAL AND PLUMBING LINES, BOXES AND FIXTURES.

ALL NEW EXTERIOR HOLLOW METAL DOOR FRAMES TO HAVE SOLID GROUT FILL WHERE SHOWN ON DETAILS.

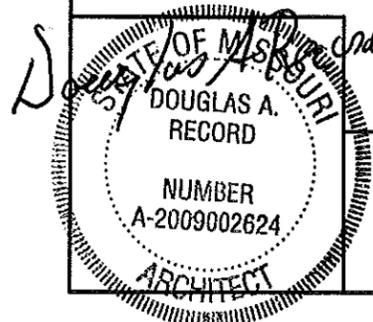
FINISH SCHEDULE

NO.	ROOM	FLOOR			BASE	WALLS			CEILING			
		CURE AND SEALER ON CONCRETE.	3/4" PLYWOOD	VCT	EXISTING TO REMAIN.	4" VINYL BASE (ROLL).	1/2" AC PLYWOOD ON THE PLWOOD WALLS.	1/2" AC PLYWOOD ON OPEN BAY SIDE.	5/8" TYPE 'X' GYPSUM BOARD.	LATEX PAINT	2 x 2 ACOUSTICAL CEILING TILE *	EXISTING TO REMAIN.
101	HALLWAY											
102	OFFICE											
103	CONFERENCE											
104	BREAK ROOM											
105	OFFICE											
106	OFFICE											
107	HALLWAY											
108	WOMEN'S											
109	MEN'S											
110	LOCKERS											
111	MAINTENANCE											
112	DATA											
201	MEZZANINE											

* FINISHED CEILINGS AT 7'-1 1/2" A.F.F. (TYPICAL)

PLUMBING FIXTURE 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, 4088.100 TANK. INCLUDE OPEN FRONT SEAT WITH LID. (WHITE)
EW	EMERGENCY EYE WASH	1"	3/4"			RE-INSTALL EXISTING EYE WASH SHOWER. INSTALL S19-2100 THERMOSTATIC MIXING 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 S-90-2-G-FR-W 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 WITH 8340.242 HERITAGE LEVER HANDLE FAUCET, AND 7798.176 P-TRAP.
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.
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 LX-4301-F CHROME FAUCET, SPOUT, SWIVEL AERATOR AND SPRAY. PROVIDE INSINKERATOR EVOLUTION 3/4 HP, 8.1 AMP, GARBAGE DISPOSAL.
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 Ø 24" ABOVE FINISHED FLOOR AS/WHERE REQUIRED. PROVIDE DRIP PAN. DRAIN TO VENT STACK.
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.
DF	WATER COOLER	3/8"		1-1/4"		ELKAY, TWO STATION WALL MOUNT BARRIER-FREE WALL MOUNT MODEL VRCGRNLTBC OR EQUAL.



NEW SERVICE PANELS

**MISSOURI DEPARTMENT
OF TRANSPORTATION**
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

BOLIVAR MAINTENANCE BUILDING RENOVATION
2816 West Broadway
Southwest District - Polk County

DESIGN BY: LARRY CARVER
DRAWN BY: LARRY CARVER
DATE: 3-29-13
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CONTRACTOR TO REMOVE EXISTING ASPHALT SHINGLES AND FELT PAPER. DISCARD ALL DEBRIS OFF-SITE. CONTRACTOR TO PROVIDE 26 GA. PREFINISHED SHEET STEEL ROOFING WITH CLOSED ENDS OVER 1 x 4'S ATTACHED CONTINUOUS HORIZONTALLY @ 24" O.C. MAXIMUM ON 30 LB. FELT PAPER ON EXISTING ROOF SUBSTRATE.

CONTRACTOR TO INSTALL 29 GA. PREFINISHED STEEL CORE SIDING OVER 1-1/2" INSULATION BOARD GLUED BETWEEN 2 x 4 HORIZONTAL FURRING STRIPS @ 36 O.C.

BOX 2 x 4 FURRING AND TRIM AS REQUIRED AROUND ALL NEW AND EXISTING WINDOWS, SILLS, DOORS, EXHAUST FANS & HVAC EQUIPMENT ETC.

REMOVE EXISTING DOWNSPOUTS, GUTTERS, SOFFITS AND FASCIA. DISCARD OFF-SITE. PROVIDE NEW DOWNSPOUTS, GUTTERS SOFFIT AND FASCIA. (TYPICAL)

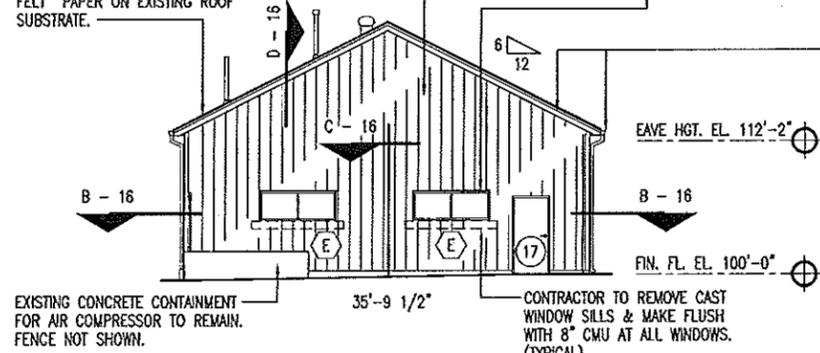
CONTRACTOR TO REMOVE EXISTING ASPHALT SHINGLES AND FELT PAPER. DISCARD ALL DEBRIS OFF-SITE.

26 GA. GALVALUME SHEET STEEL ROOFING WITH CLOSED ENDS OVER 1 x 4'S ATTACHED CONTINUOUS HORIZONTALLY @ 24" O.C. MAXIMUM ON 30 LB. FELT PAPER ON EXISTING ROOF SUBSTRATE.

CONTRACTOR TO REMOVE (2) TWO OVERHEAD SECTION GARAGE DOORS, TRACK, SWITCHES AND OPENERS. RETURN TO OWNER.

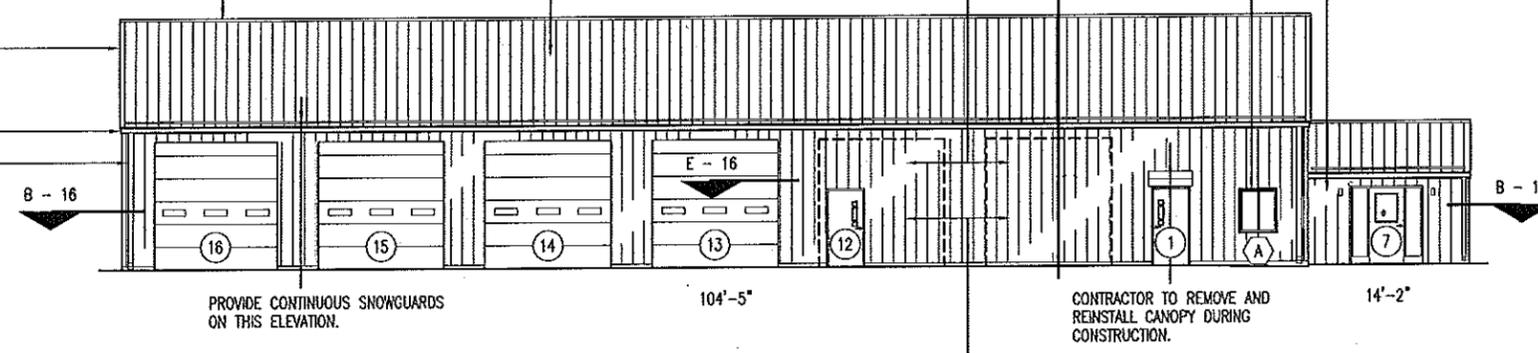
BOX 2 x 4 FURRING AND TRIM AS REQUIRED AROUND ALL NEW AND EXISTING WINDOWS, SILLS, DOORS, EXHAUST FANS & HVAC EQUIPMENT ETC.

CONTRACTOR TO REMOVE EXIST. SIDING AND FELT PAPER. DISCARD OFF-SITE AND INSTALL 29 GA. PREFINISHED STEEL CORE SIDING OVER 1-1/2" INSULATION BOARD GLUED BETWEEN 2 x 4 HORIZONTAL FURRING STRIPS @ 36 O.C.



C
10 SOUTH ELEVATION
SCALE: 1/16" = 1'-0"

INSTALL FLASHING AT ALL ROOF PENETRATIONS. (TYPICAL)



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

CONTRACTOR TO REMOVE EXIST. SIDING AND FELT PAPER. DISCARD OFF-SITE AND INSTALL 29 GA. PREFINISHED STEEL CORE SIDING OVER 1-1/2" INSULATION BOARD GLUED BETWEEN 2 x 4 HORIZONTAL FURRING STRIPS @ 36 O.C.

CONTRACTOR TO REMOVE EXISTING ASPHALT SHINGLES AND FELT PAPER. DISCARD ALL DEBRIS OFF-SITE.

26 GA. GALVALUME SHEET STEEL ROOFING WITH CLOSED ENDS OVER 1 x 4'S ATTACHED CONTINUOUS HORIZONTALLY @ 24" O.C. MAXIMUM ON 30 LB. FELT PAPER ON EXISTING ROOF SUBSTRATE.

INSTALL 26 GA. RIDGE CAP. (TYP.)
INSTALL FLASHING AT ALL ROOF PENETRATIONS. (TYPICAL)

CONTRACTOR TO INSTALL 29 GA. PREFINISHED STEEL CORE SIDING OVER 1-1/2" INSULATION BOARD GLUED BETWEEN 2 x 4 HORIZONTAL FURRING STRIPS @ 36 O.C.

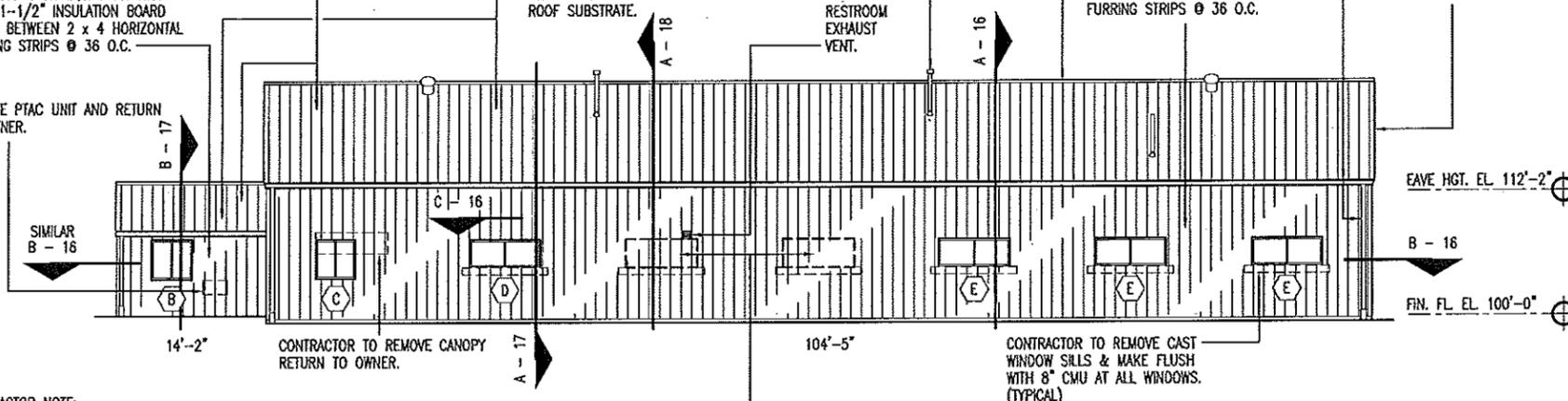
REMOVE EXISTING DOWNSPOUTS, GUTTERS, SOFFITS AND FASCIA. DISCARD OFF-SITE. PROVIDE NEW DOWNSPOUTS, GUTTERS SOFFIT AND FASCIA. (TYPICAL)

CONTRACTOR TO REMOVE EXISTING ASPHALT SHINGLES AND FELT PAPER. DISCARD ALL DEBRIS OFF-SITE. CONTRACTOR TO PROVIDE 26 GA. PREFINISHED SHEET STEEL ROOFING WITH CLOSED ENDS OVER 1 x 4'S ATTACHED CONTINUOUS HORIZONTALLY @ 24" O.C. MAXIMUM ON 30 LB. FELT PAPER ON EXISTING ROOF SUBSTRATE.

BOX 2 x 4 FURRING AND TRIM AS REQUIRED AROUND ALL NEW AND EXISTING WINDOWS, SILLS, DOORS, EXHAUST FANS & HVAC EQUIPMENT ETC.

CONTRACTOR TO REMOVE EXIST. SIDING AND FELT PAPER. DISCARD OFF-SITE AND INSTALL 29 GA. PREFINISHED STEEL CORE SIDING OVER 1-1/2" INSULATION BOARD GLUED BETWEEN 2 x 4 HORIZONTAL FURRING STRIPS @ 36 O.C.

REMOVE PTAC UNIT AND RETURN TO OWNER.

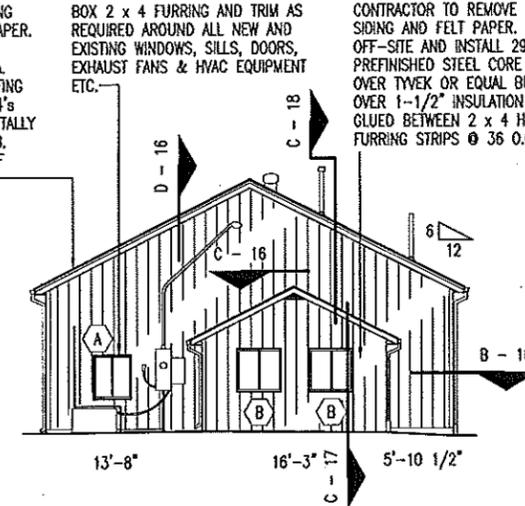


A
10 WEST ELEVATION
SCALE: 1/16" = 1'-0"

CONTRACTOR NOTE:
CONTRACTOR TO REMOVE & REPLACE ALL SURFACE MOUNTED AND RELATED FIXTURE, ELECTRICAL, COMMUNICATION ETC. APPURTENANCES FOR THE NEW CONSTRUCTION AS REQUIRED. PROVIDE BLOCKING FOR SECURE MOUNTING.

CONTRACTOR TO INFILL WINDOW OPENINGS WITH 8" STRUCTURAL CMU. EXPANSION JOINT WITH BACKER ROD AND SEALANT AT OPENING PERIMETERS.

NOTE:
REMOVE AND REINSTALL THE PEAK LOUVER IN ADDITION.



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

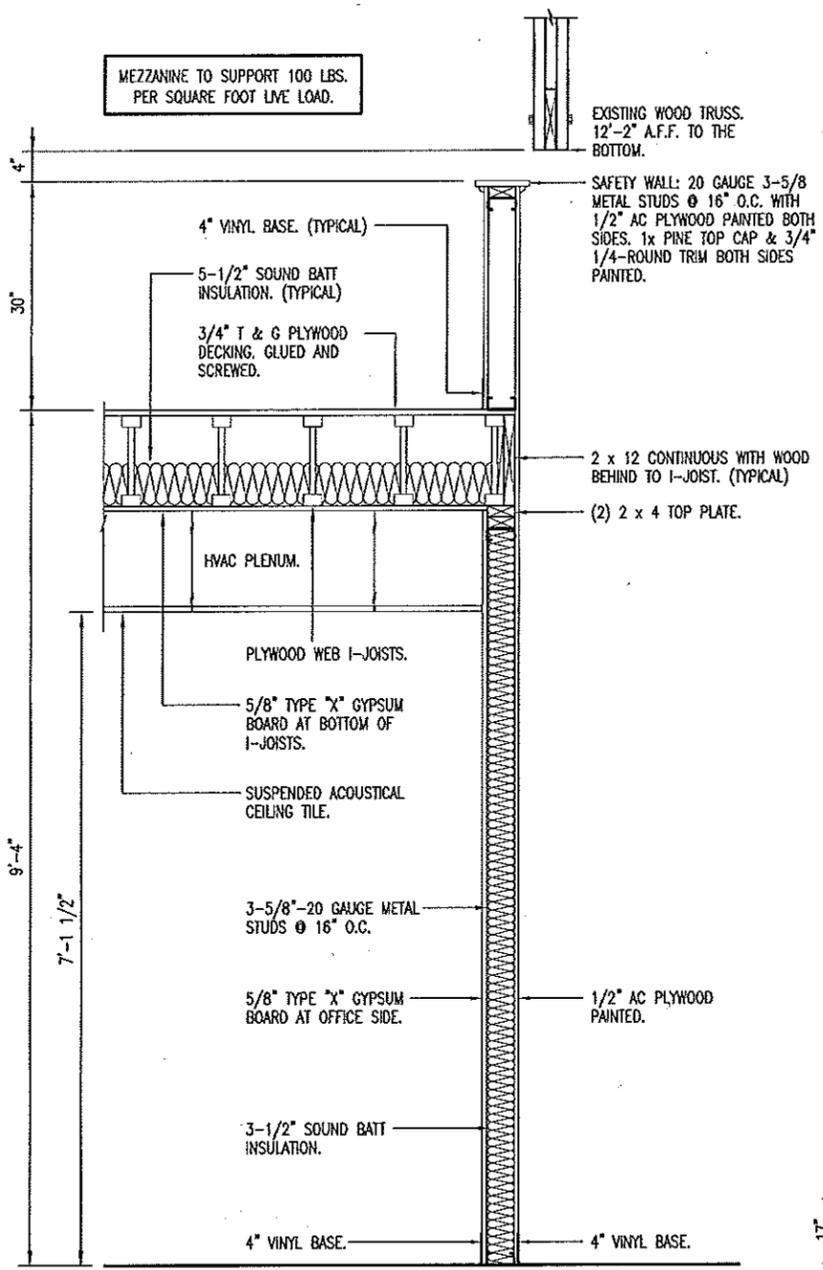
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4/1/13
OFFICE OF MISSOURI ARCHITECTS
RECORD
NUMBER
A-2009002624
ARCHITECT

ELEVATIONS

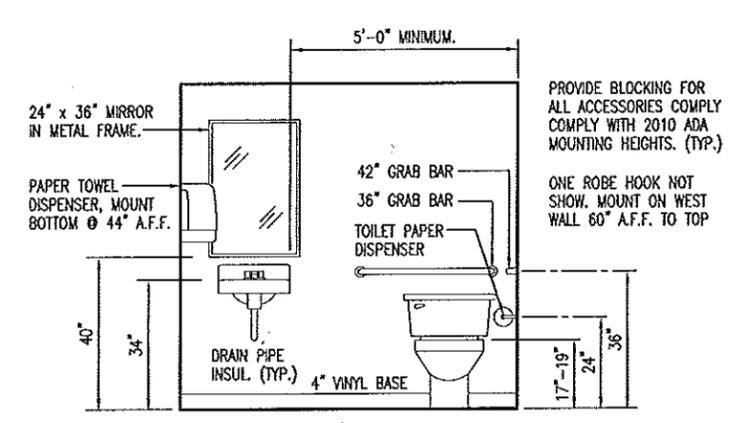
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Southwest District - Polk County

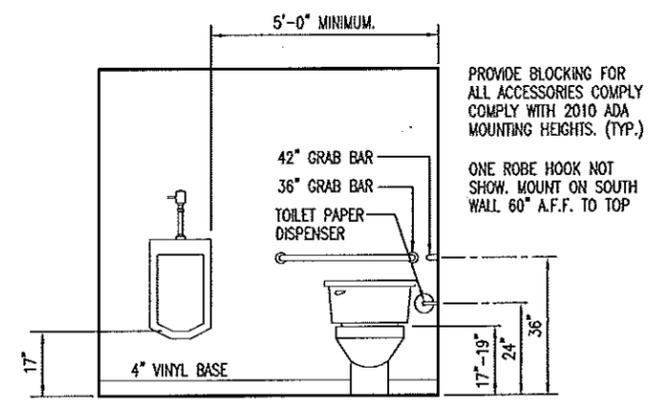
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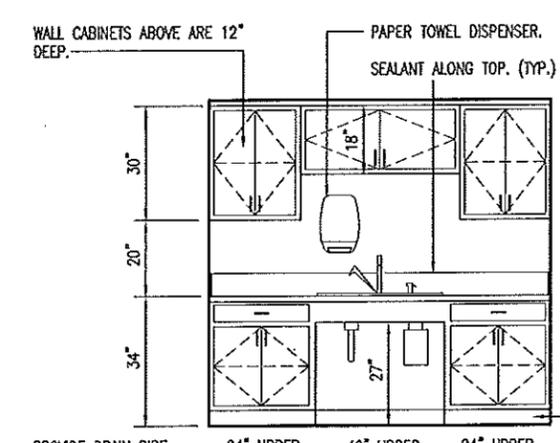
A MEZZANINE WALL SECTION
11 SCALE: 1/2" = 1'-0"



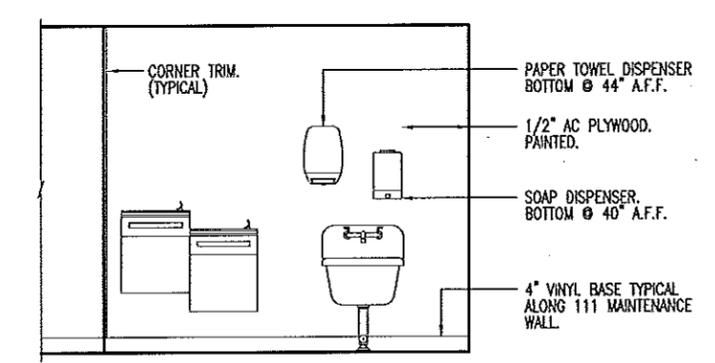
D WOMEN'S 108 ELEVATION
11 SCALE: 1/4" = 1'-0"



B MEN'S 109 ELEVATION
11 SCALE: 1/4" = 1'-0"



E 104 BREAKROOM CASEWORK ELEVATION
11 SCALE: 1/4" = 1'-0"



C 107 HALLWAY ELEVATION
11 SCALE: 1/4" = 1'-0"

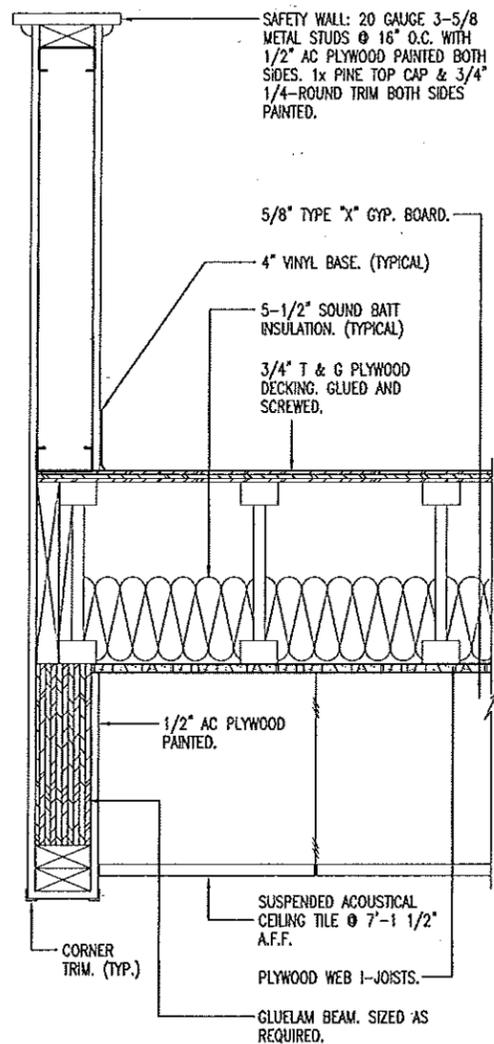
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4/1/13

INTERIOR ELEVATIONS

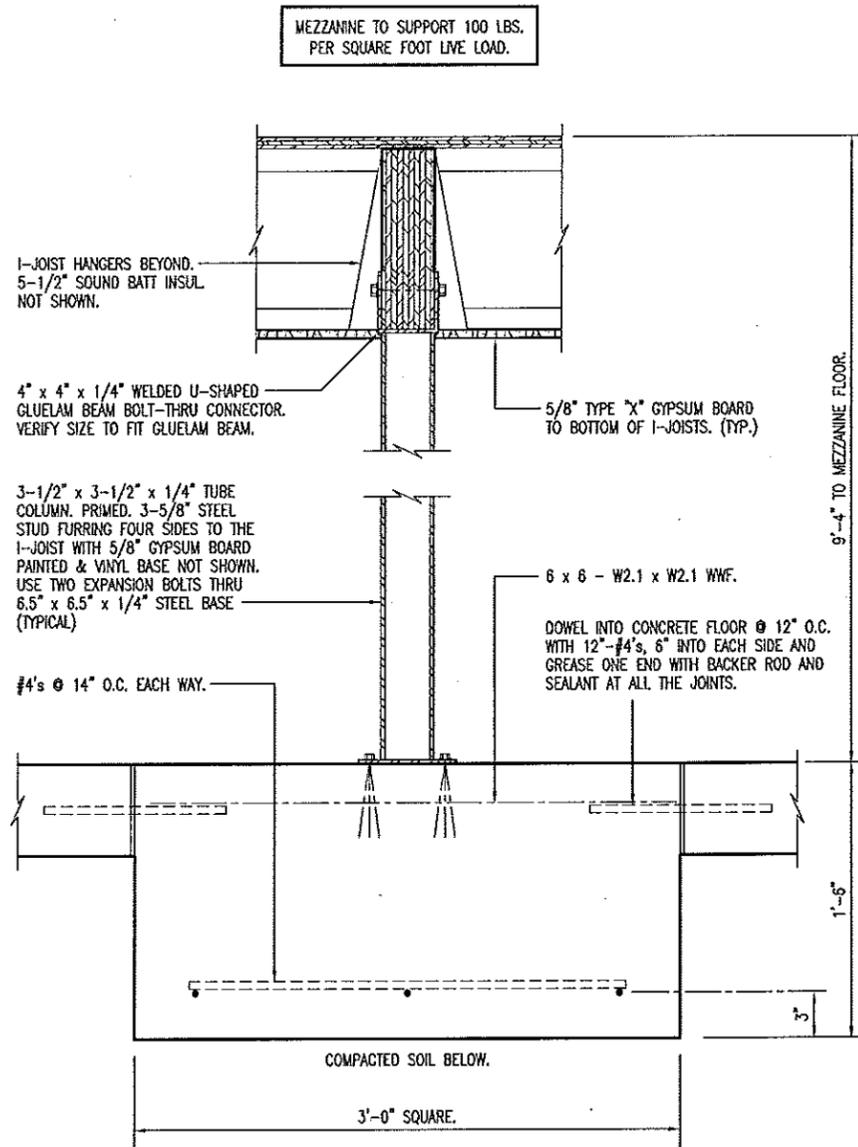
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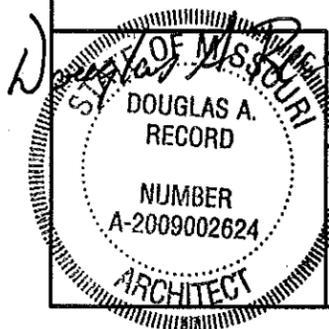
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A DETAIL
12 SCALE: 1" = 1'-0"



B CONCRETE FOOTING AND MEZZANINE COLUMN DETAIL
12 SCALE: 1" = 1'-0"

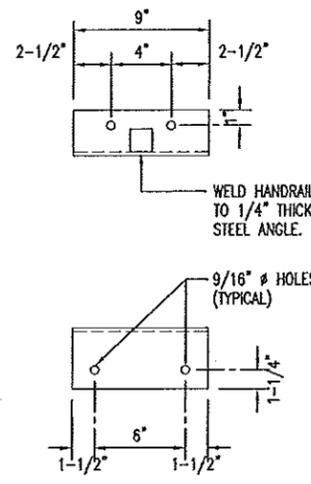


DETAILS

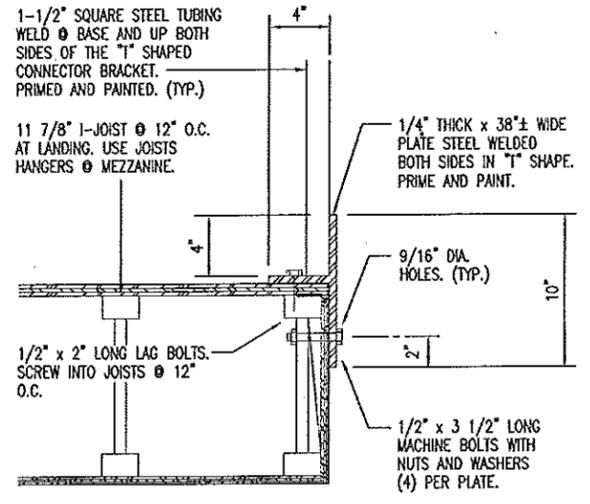
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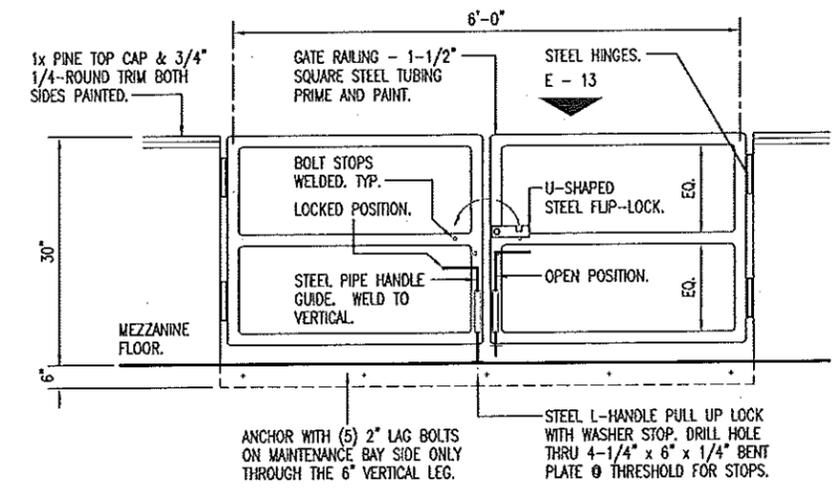
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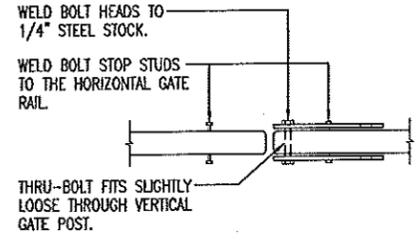
C
13
PRIMED AND PAINTED.
STAIR RAIL CONNECTION
SCALE: 1" = 1'-0"



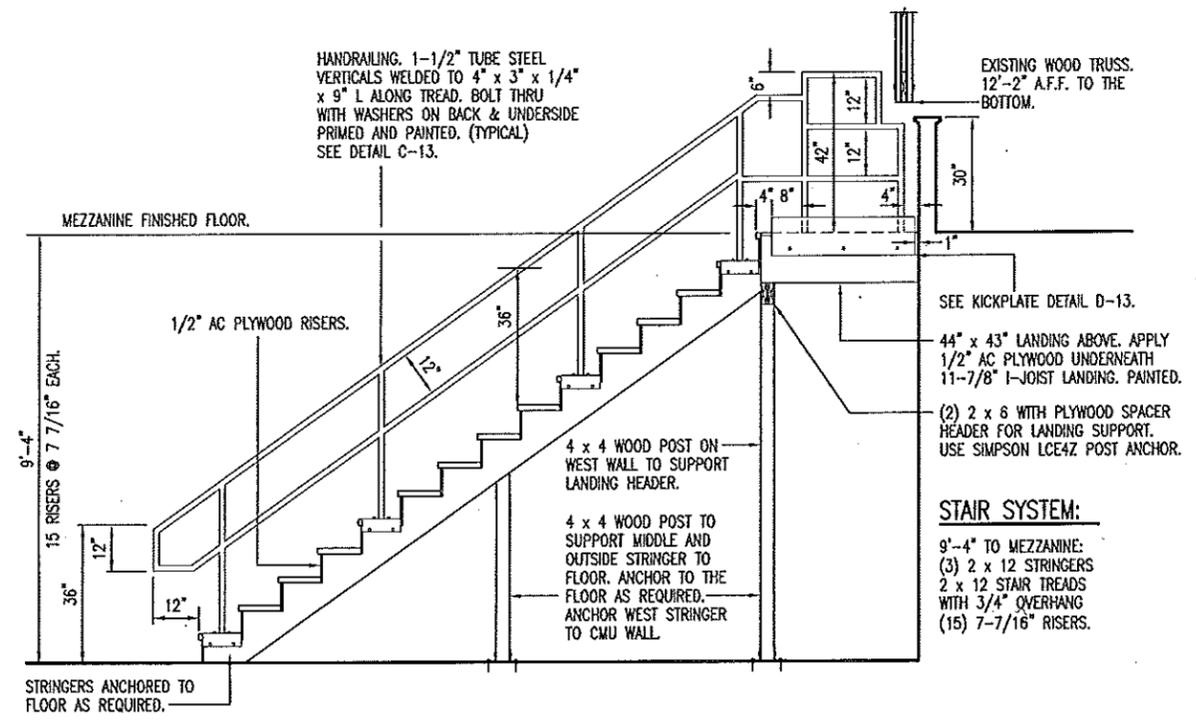
D
13
KICK PLATE DETAIL
SCALE: 1" = 1'-0"



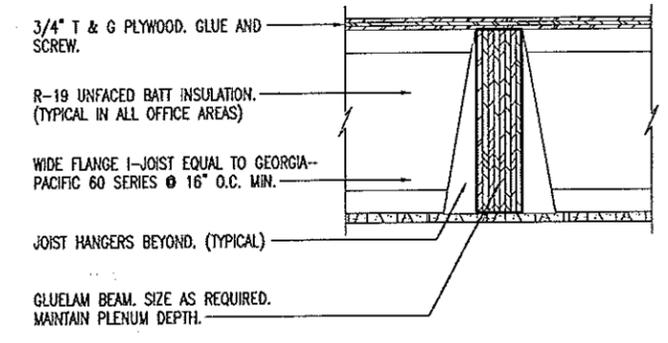
F
13
VIEW FROM MEZZANINE
SWING GATE DETAIL
SCALE: 1/2" = 1'-0"



E
13
FLIP LOCK
SCALE: 1" = 1'-0"

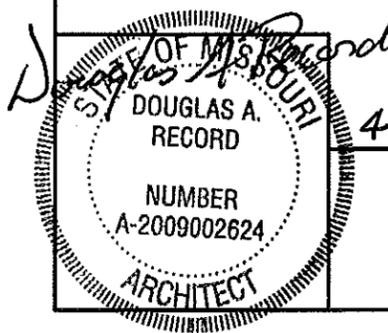


A
13
MEZZANINE STAIR SYSTEM
SCALE: 1/4" = 1'-0"



B
13
BEAM DETAIL
SCALE: 1" = 1'-0"

STAIR SYSTEM:
9'-4" TO MEZZANINE:
(3) 2 x 12 STRINGERS
2 x 12 STAIR TREADS WITH 3/4" OVERHANG
(15) 7-7/16" RISERS.

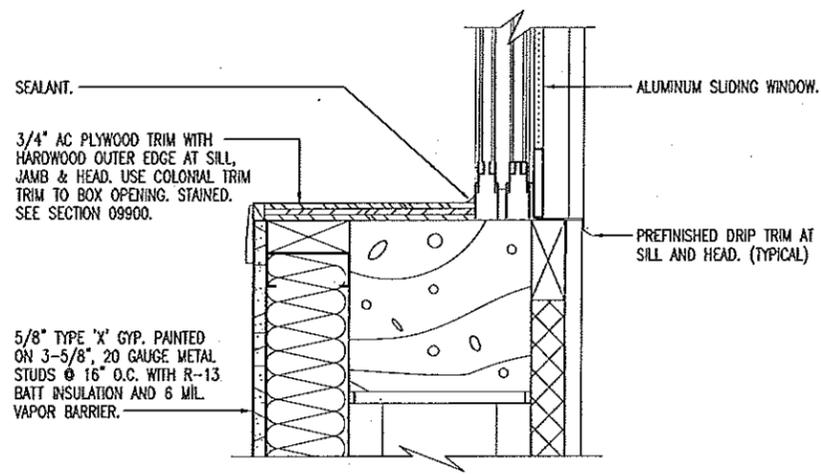


STAIR AND RAILING DETAILS

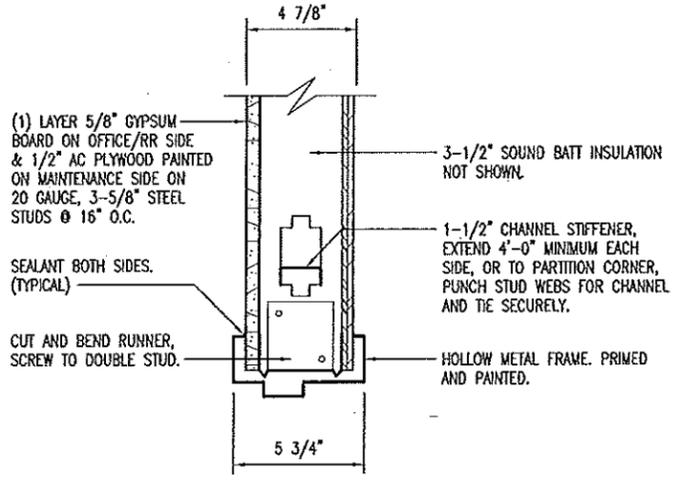
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Southwest District - Polk County

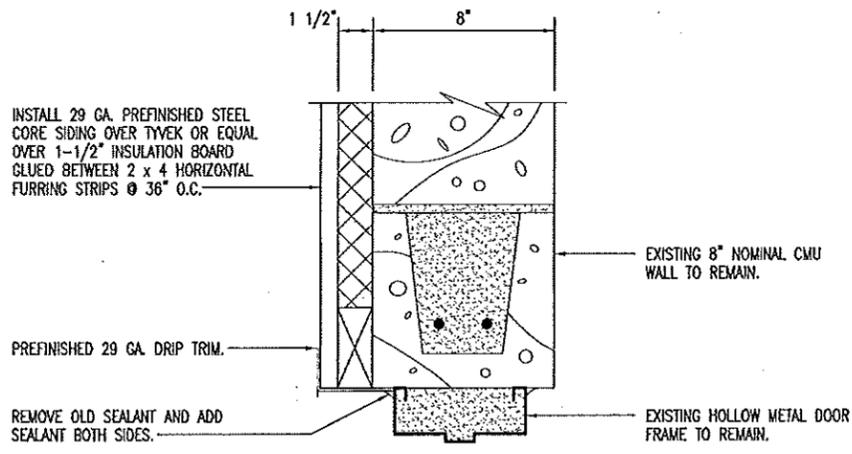
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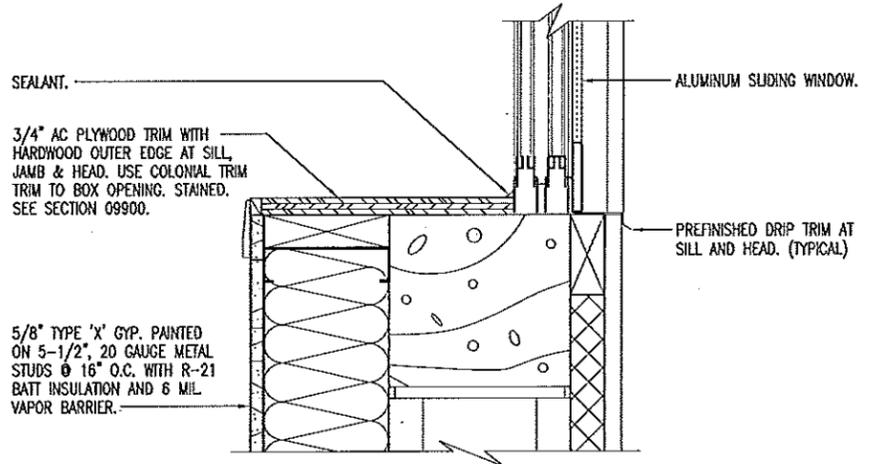
D
14
JAMB SIMILAR.
WINDOW SILL
SCALE: 1-1/2" = 1'-0"



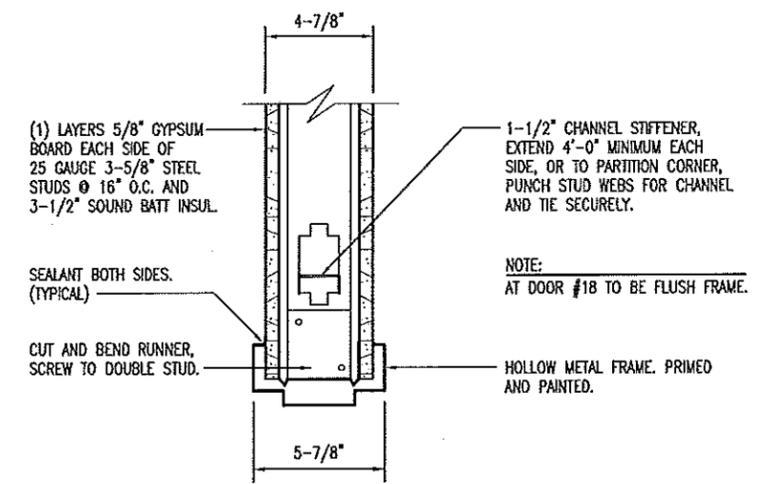
E
14
DOOR HEAD/JAMB
SCALE: 1-1/2" = 1'-0"



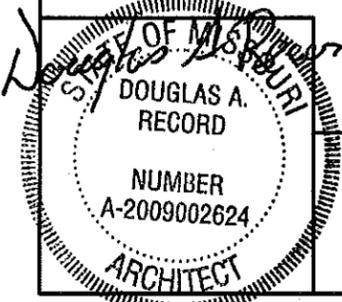
A
14
JAMB SIMILAR.
DOOR HEAD
SCALE: 1-1/2" = 1'-0"



B
14
JAMB SIMILAR.
WINDOW SILL
SCALE: 1-1/2" = 1'-0"



C
14
SOUND BATT INSULATION NOT SHOWN.
DOOR HEAD/JAMB
SCALE: 1-1/2" = 1'-0"



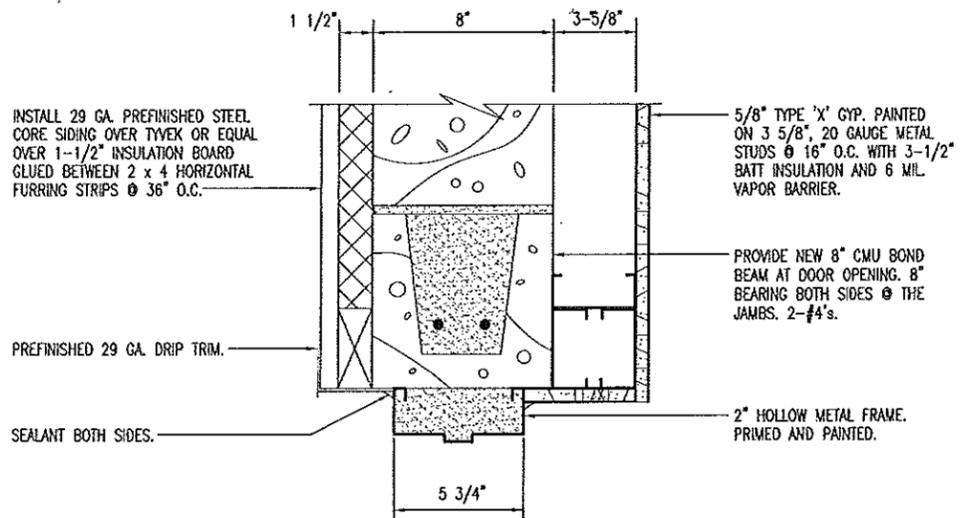
4/1/13

HEAD & JAMB DETAILS

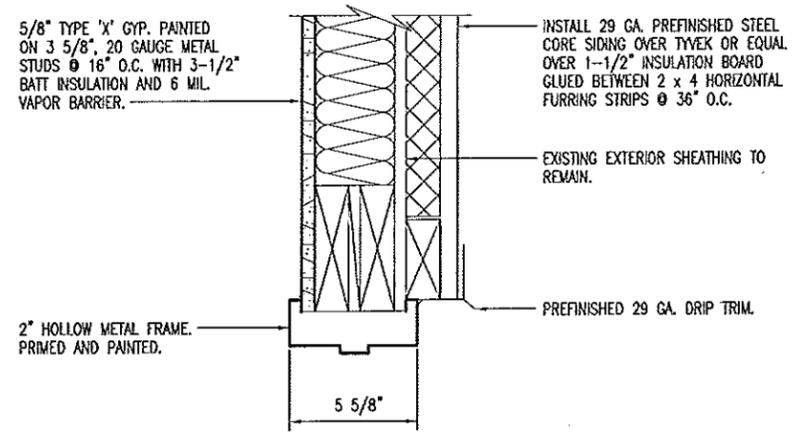
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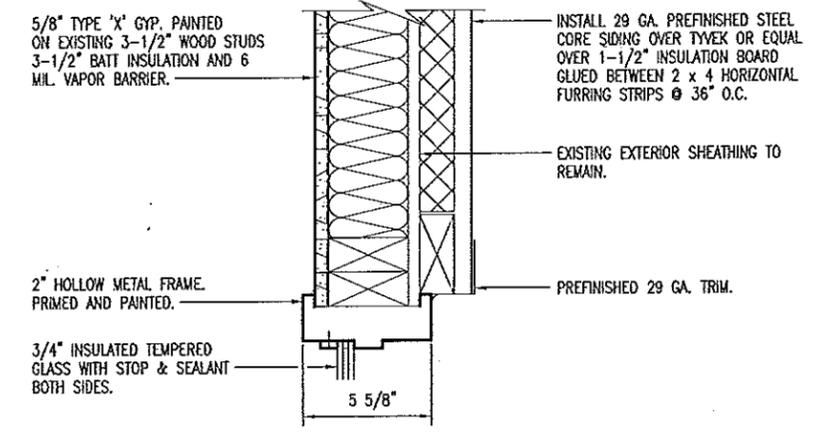
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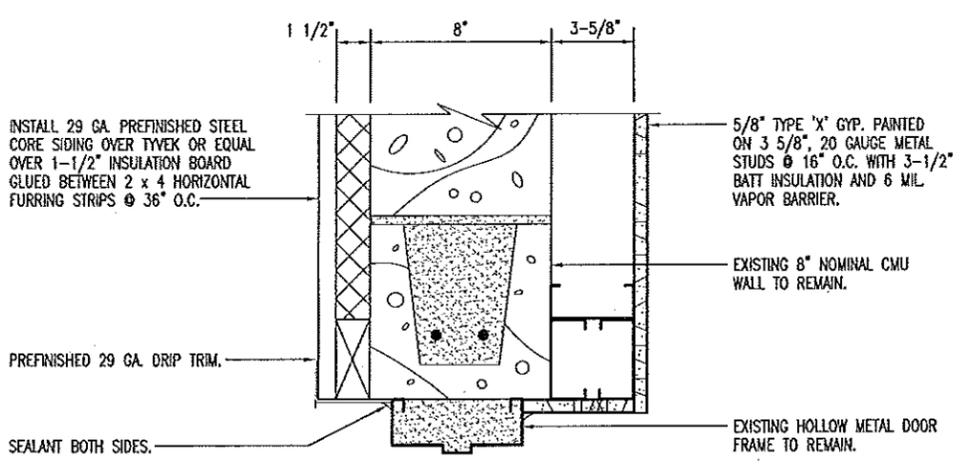
D JAMB SIMILAR DOOR HEAD
15 SCALE: 1-1/2" = 1'-0"



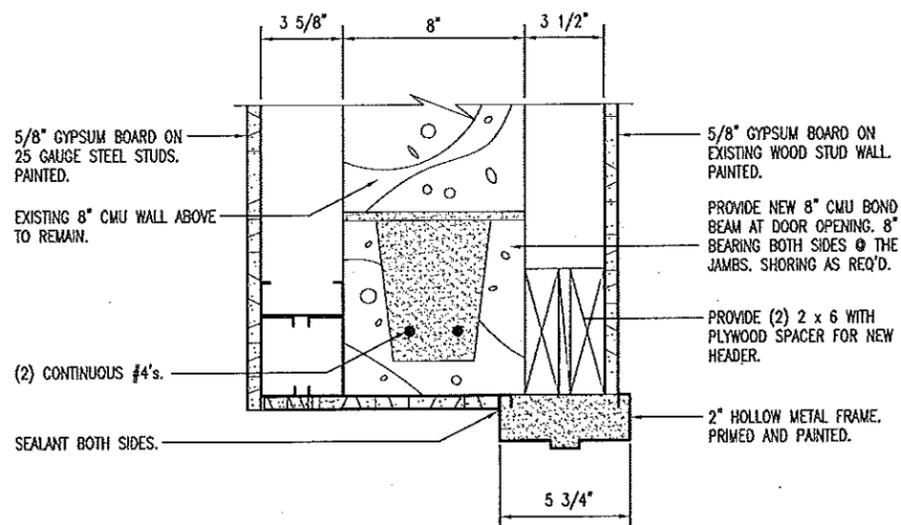
E JAMB SIMILAR DOOR HEAD
15 SCALE: 1-1/2" = 1'-0"



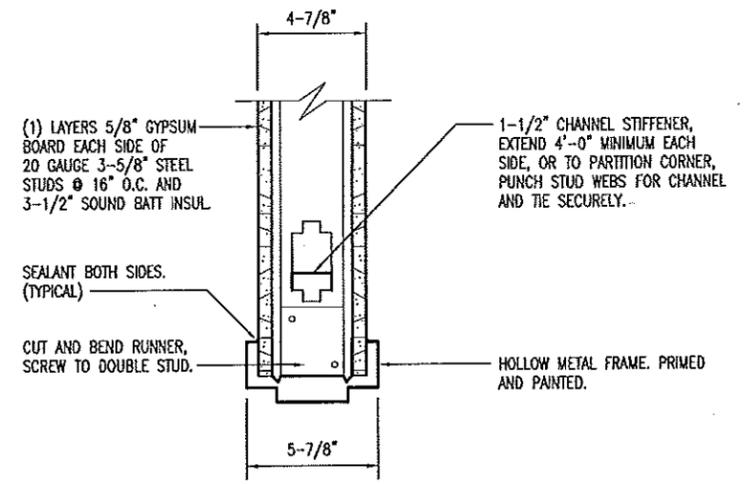
F WINDOW JAMB
15 SCALE: 1-1/2" = 1'-0"



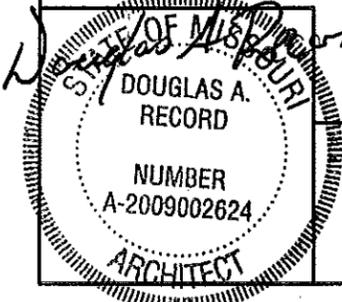
A JAMB SIMILAR DOOR HEAD
15 SCALE: 1-1/2" = 1'-0"



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



C SOUND BATT INSULATION NOT SHOWN. DOOR HEAD/JAMB
15 SCALE: 1-1/2" = 1'-0"

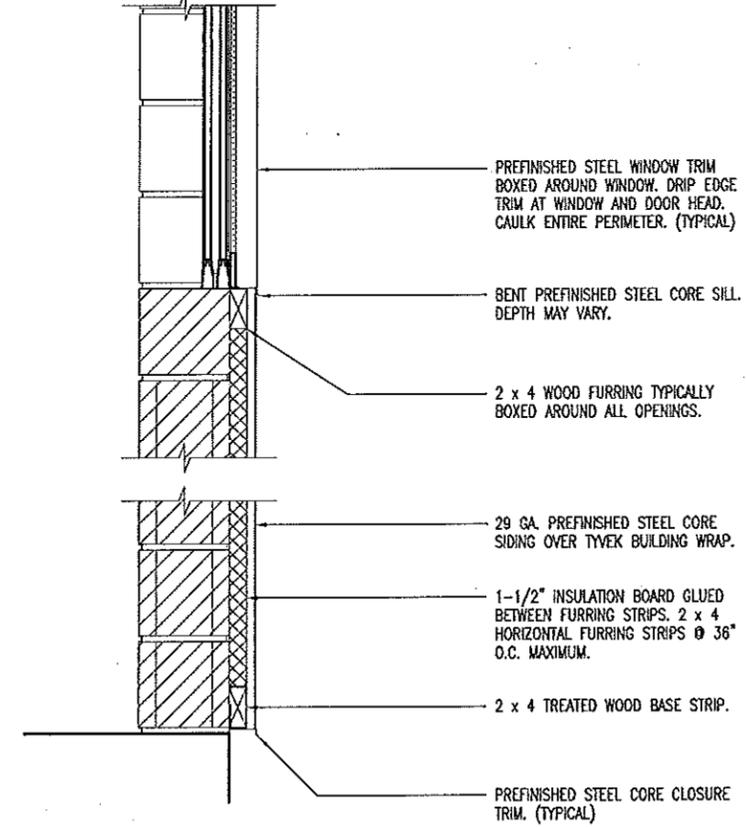
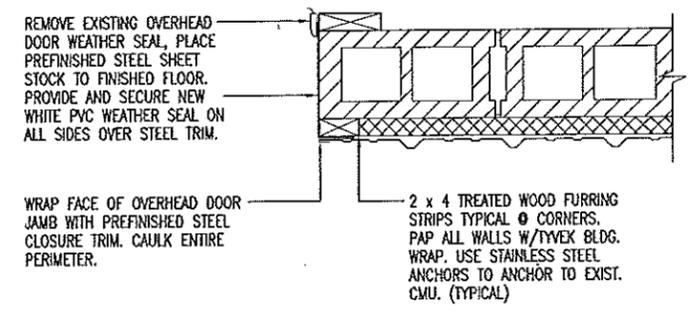
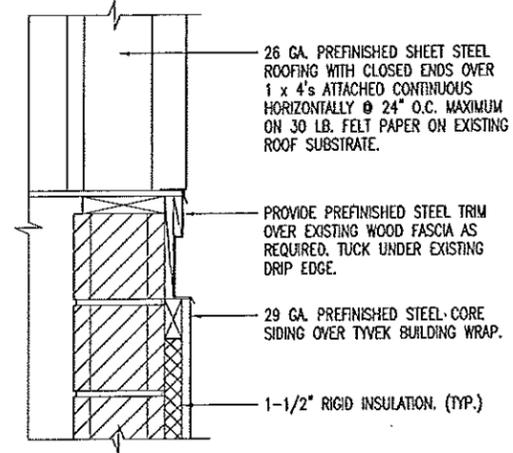
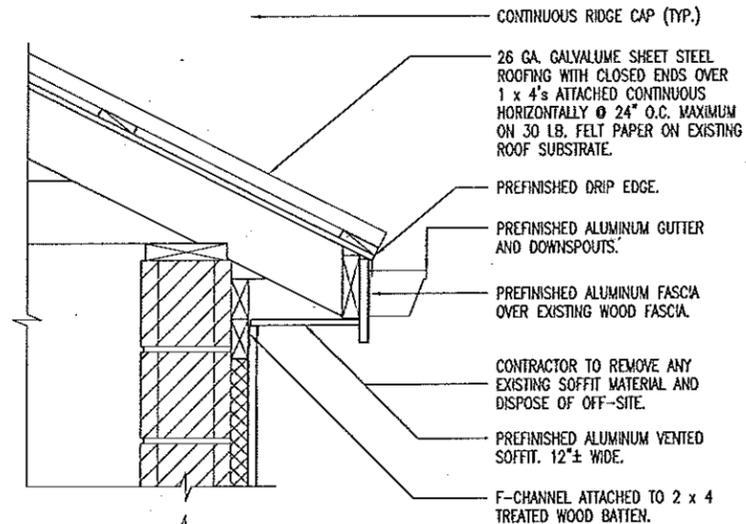


HEAD & JAMB DETAILS

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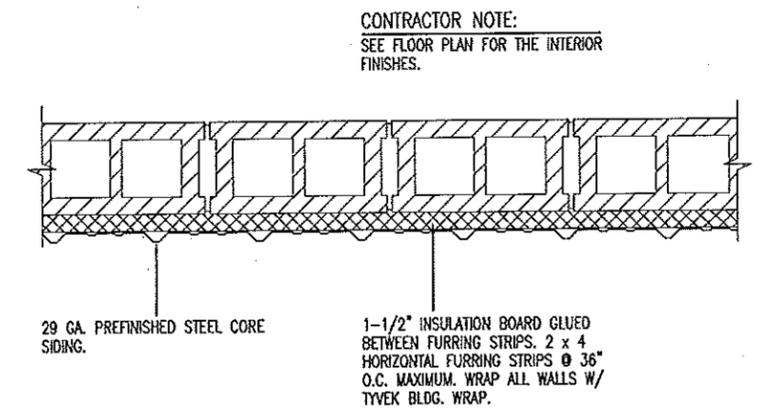
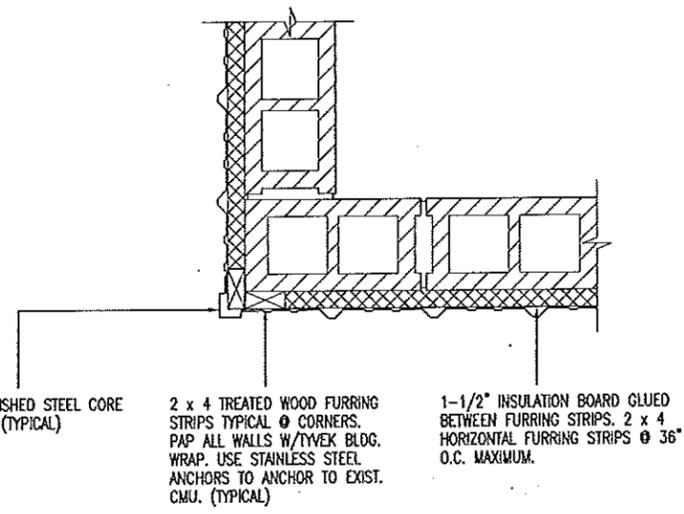
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Southwest District - Polk County

DESIGN BY: LARRY CARVER
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D GABLE END WALL
16 SCALE: 3/4" = 1'-0"

E OVERHEAD DOOR JAMB
16 SCALE: 3/4" = 1'-0"

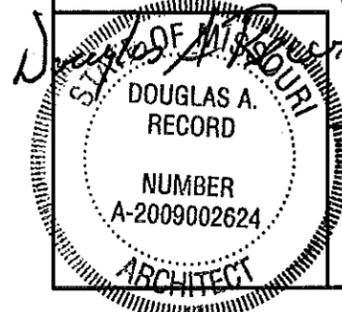


B CORNER PLAN VIEW
16 SCALE: 3/4" = 1'-0"

C WALL PLAN VIEW
16 SCALE: 3/4" = 1'-0"

A WALL SECTION
16 SCALE: 3/4" = 1'-0"

CONTRACTOR NOTE:
SEE FLOOR PLAN FOR THE INTERIOR FINISHES.

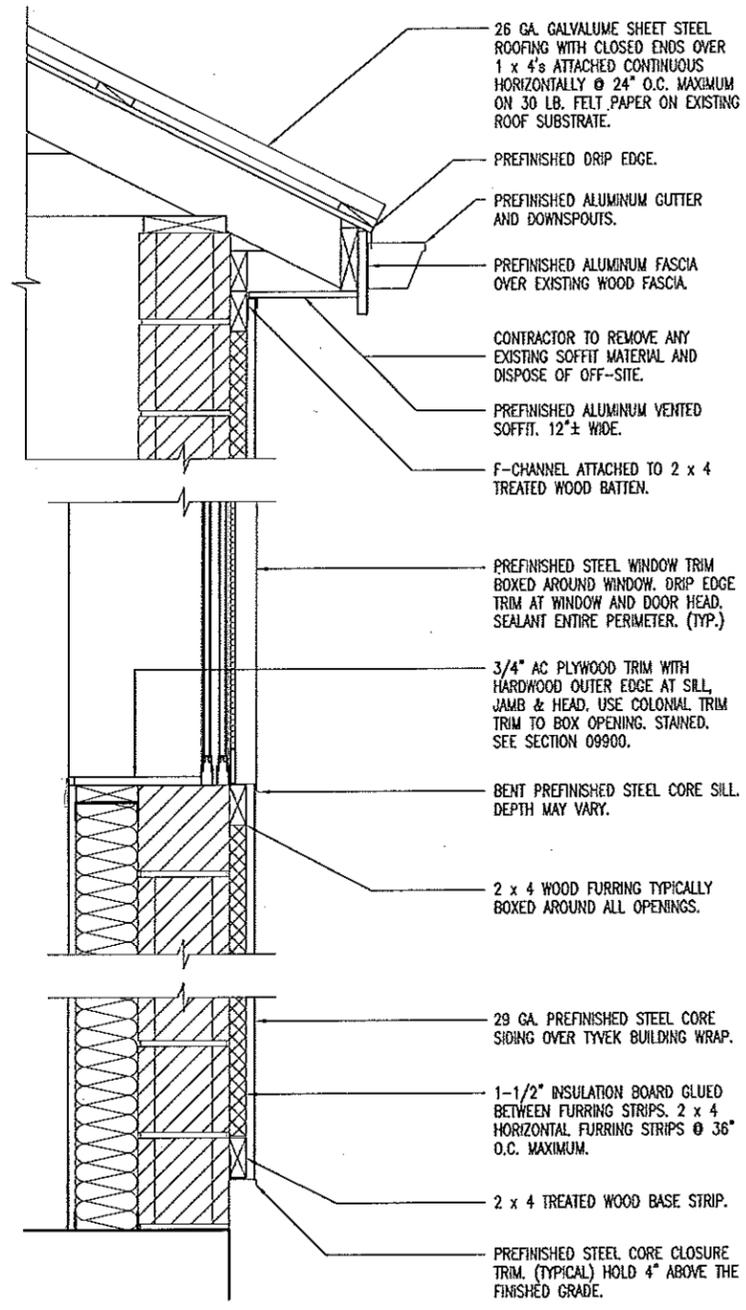


WALL SECTIONS

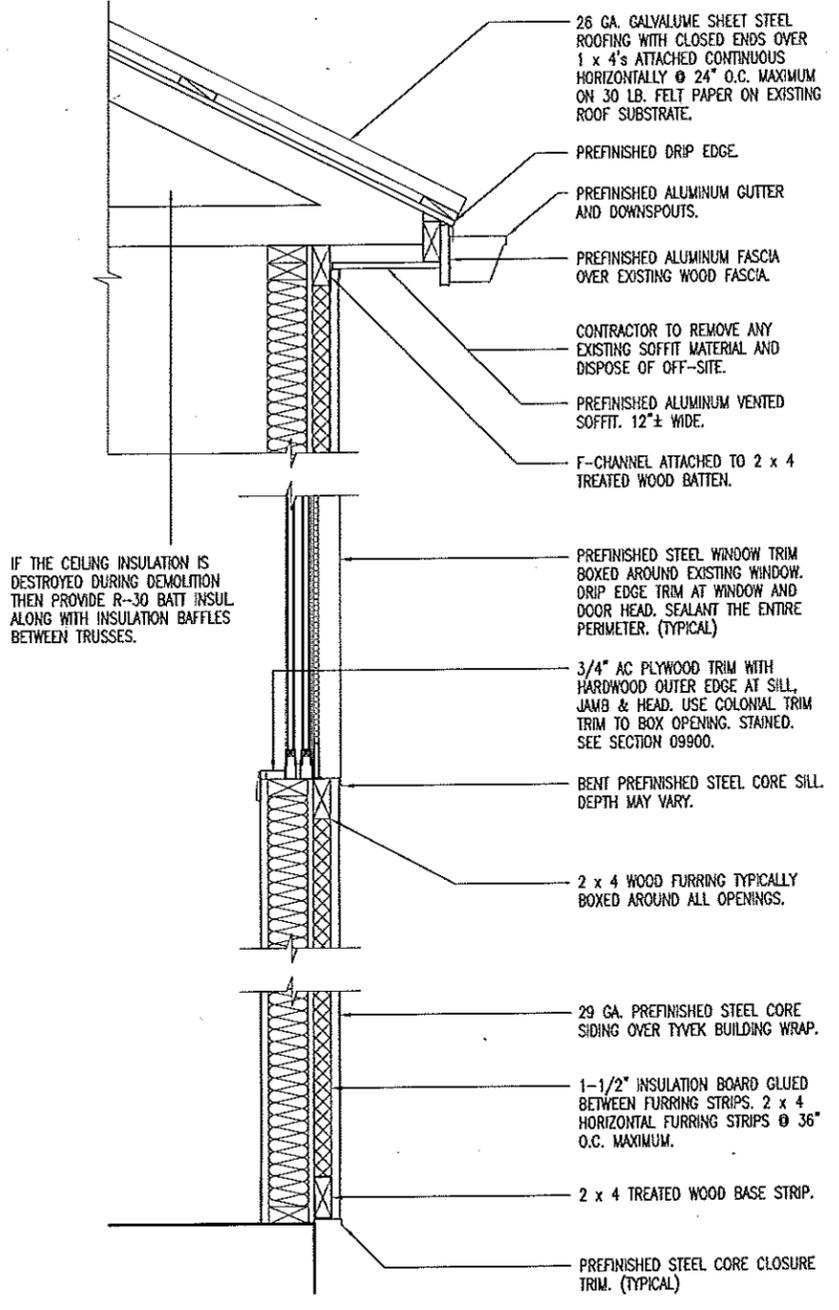
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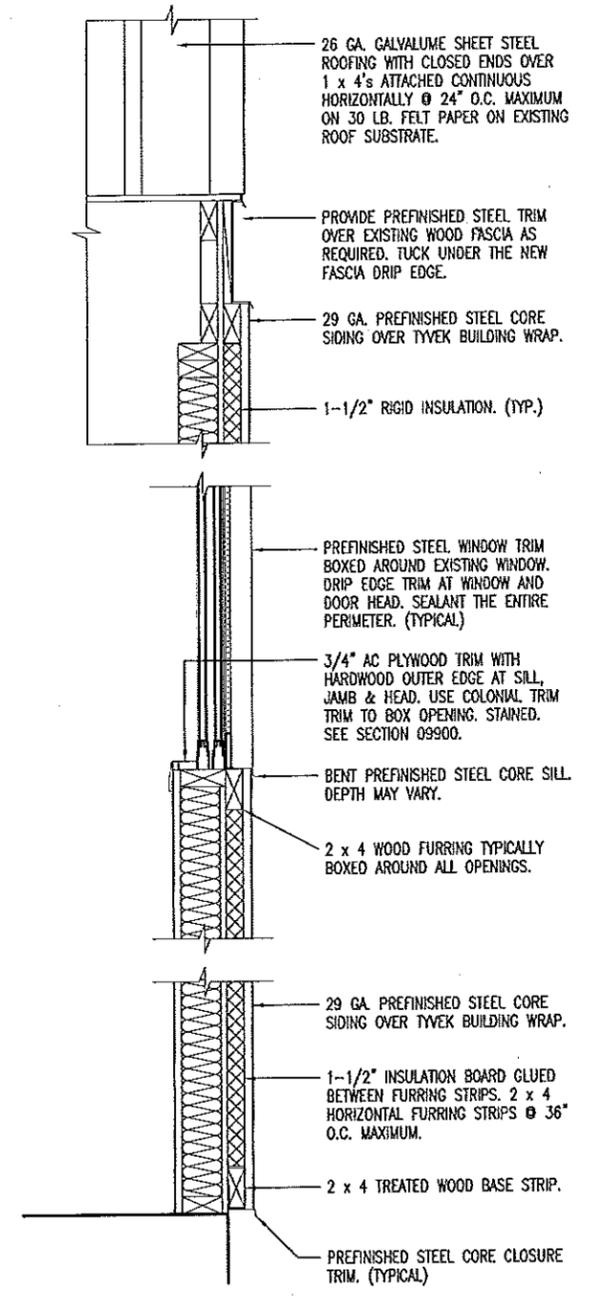
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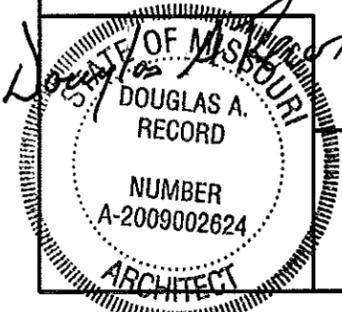
A WALL SECTION
17 SCALE: 3/4" = 1'-0"



B WALL SECTION
17 SCALE: 3/4" = 1'-0"



C WALL SECTION
17 SCALE: 3/4" = 1'-0"



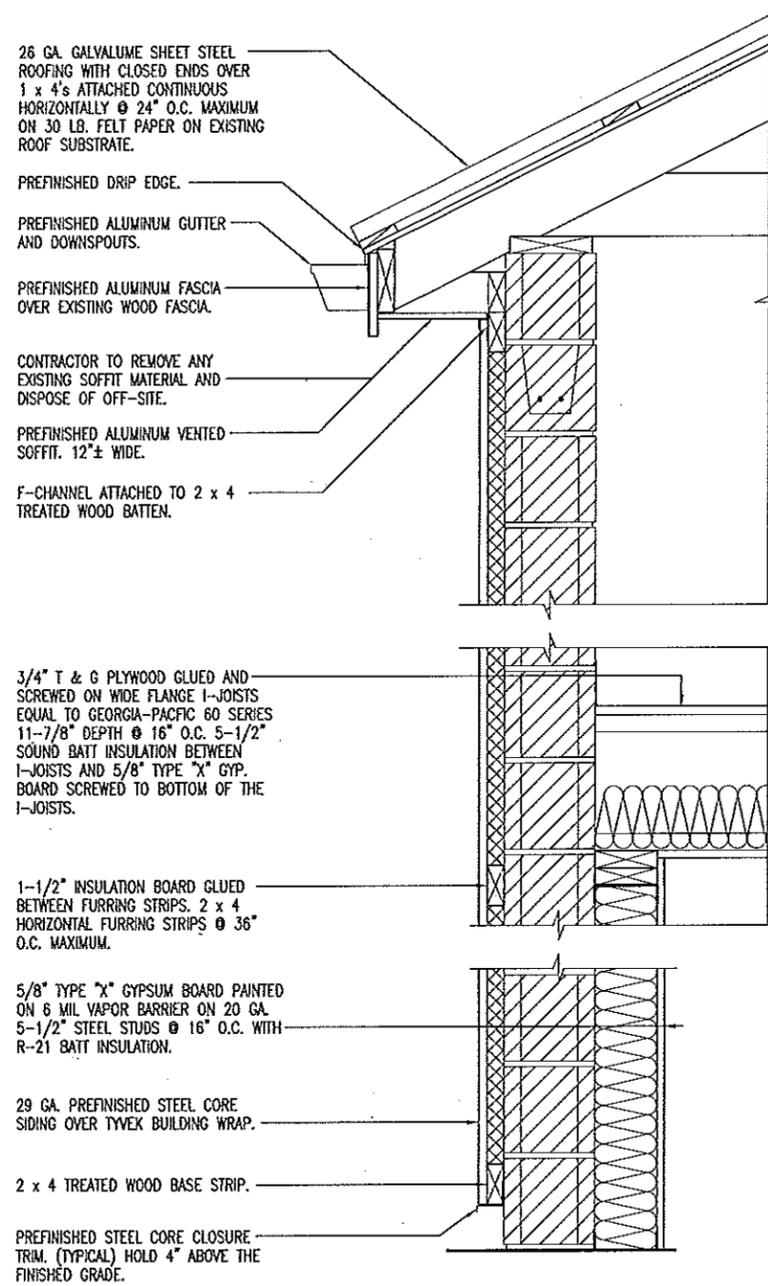
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WALL SECTIONS

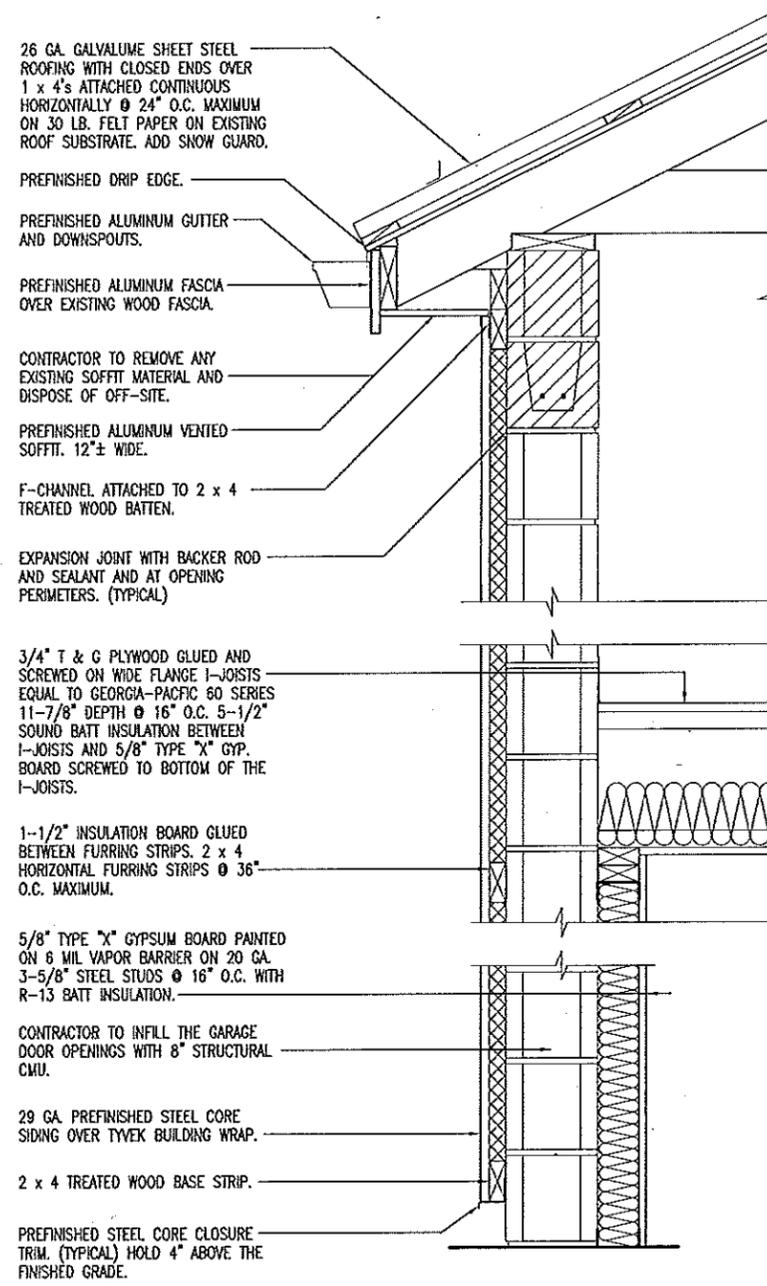
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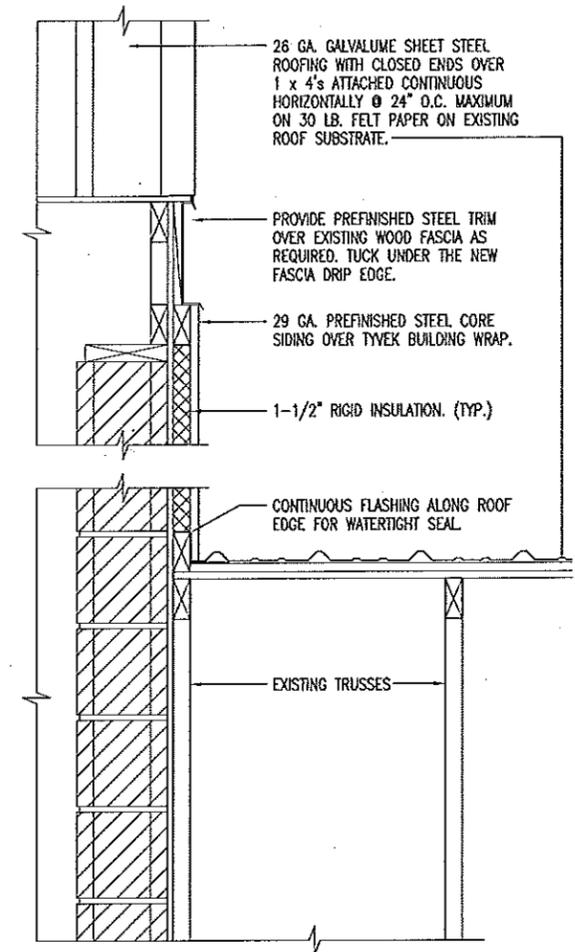
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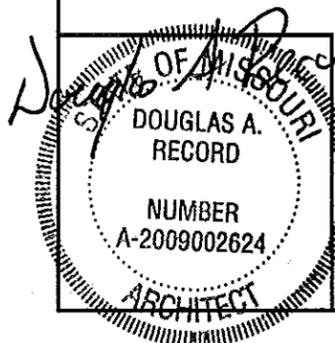
A WALL SECTION
18 SCALE: 3/4" = 1'-0"



B WALL SECTION
18 SCALE: 3/4" = 1'-0"



C WALL SECTION
18 SCALE: 3/4" = 1'-0"



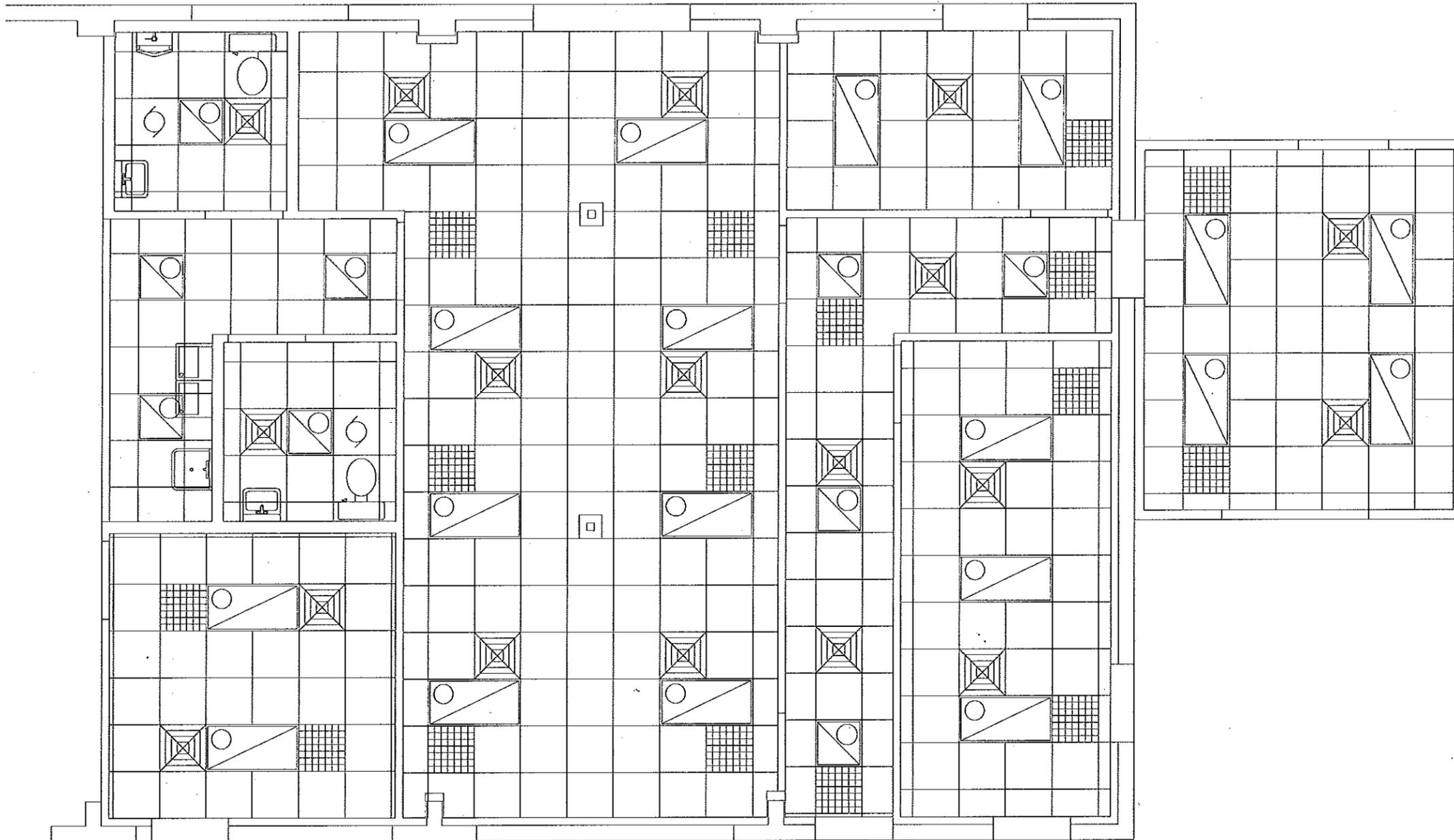
4/1/13

WALL SECTIONS

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FACILITIES MANAGEMENT

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Southwest District - Polk County

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DRAWN BY: LARRY CARVER
DATE: 3-22-13
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REFLECTED
CEILING PLAN
 A
 19
 SCALE: 3/16" = 1'-0"
 NORTH

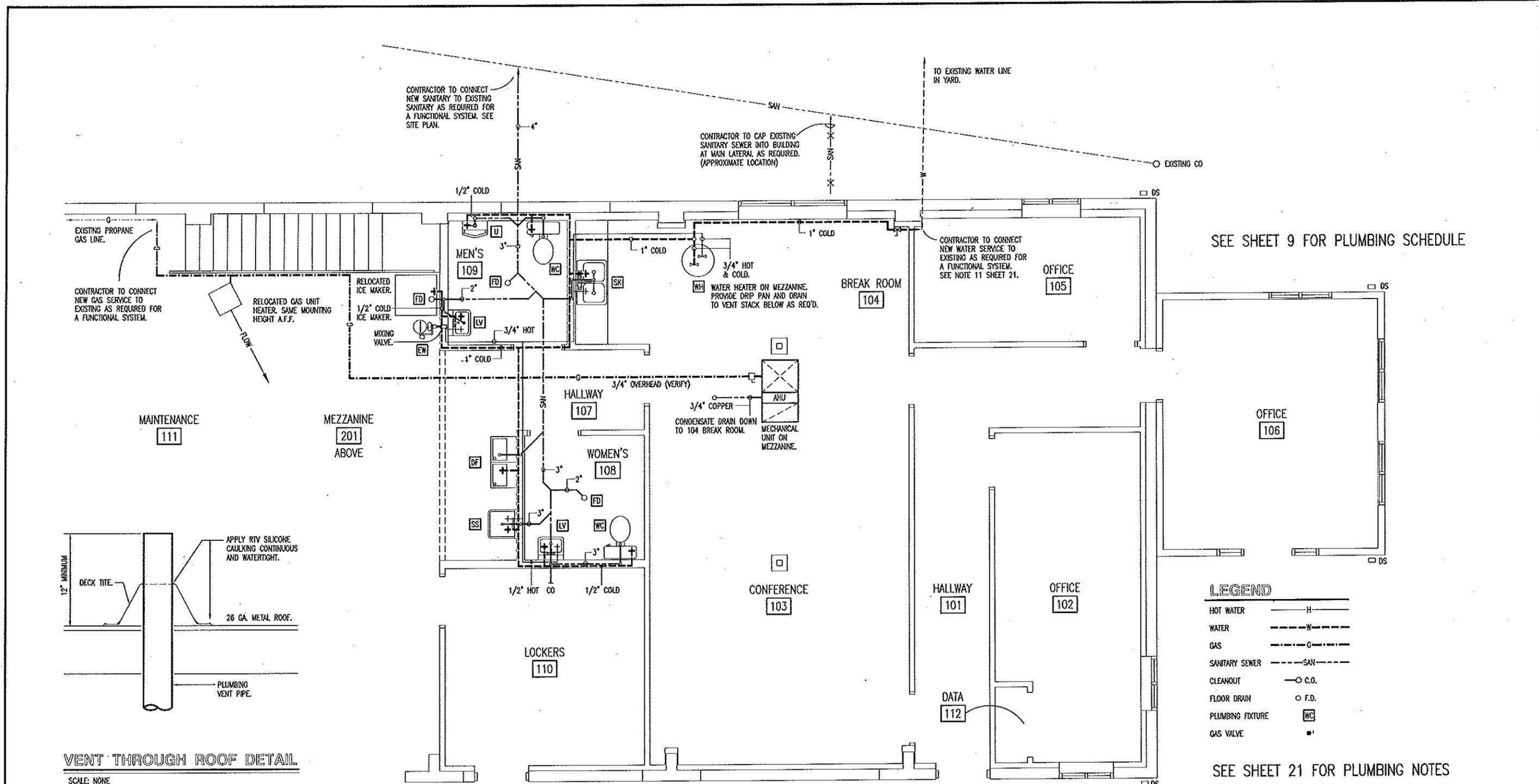
Record
 MISSOURI
 DOUGLAS A.
 RECORD
 NUMBER
 A-2009002624
 ARCHITECT
 4/1/13

REFLECTED CEILING PLAN

MISSOURI DEPARTMENT
 OF TRANSPORTATION
 DIVISION OF GENERAL SERVICES
 FACILITIES MANAGEMENT

BOLIVAR MAINTENANCE BUILDING RENOVATION
 2816 West Broadway
 Southwest District - Polk County

DESIGN BY: LARRY CARVER
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 DATE: 3-22-13
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SEE SHEET 9 FOR PLUMBING SCHEDULE

LEGEND

HOT WATER	— H —
WATER	— W —
GAS	— G —
SANITARY SEWER	— SAN —
CLEANOUT	○ C.O.
FLOOR DRAIN	○ F.D.
PLUMBING FIXTURE	WC
GAS VALVE	■

SEE SHEET 21 FOR PLUMBING NOTES

A PLUMBING PLAN **NORTH**
20 SCALE: 3/16" = 1'-0"

Douglas A. Record
 MISSOURI ARCHITECT
 DOUGLAS A. RECORD
 NUMBER A-2009002624
 4/1/13

PLUMBING PLAN

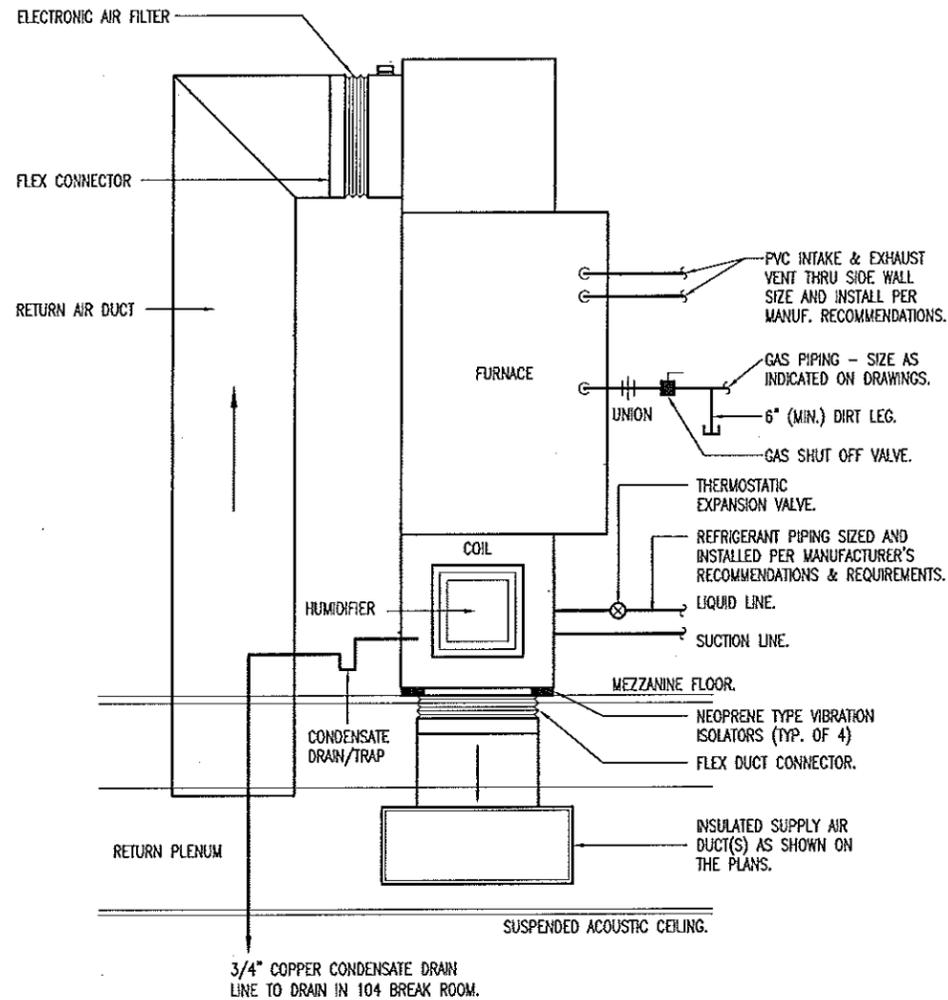
MISSOURI DEPARTMENT OF TRANSPORTATION
 DIVISION OF GENERAL SERVICES
 FACILITIES MANAGEMENT

BOLIVAR MAINTENANCE BUILDING RENOVATION
 2816 West Broadway
 Southwest District - Polk County

DESIGN BY: LARRY CARVER
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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.
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.
11. CONTRACTOR TO VERIFY IF RENOVATED MAINTENANCE BUILDING HAS A 1" BACKFLOW PREVENTER. IF NOT, PROVIDE ONE FOR AN OPERABLE SERVICE. GENERAL CONTRACTOR TO PROVIDE WALL FURRING AND ACCESS PANEL IN ADEQUATE CHASE IN 105 OFFICE AS REQUIRED FOR THIS AND A BALL VALVE WATER SHUT-OFF.
12. CONTRACTOR TO INSTALL AN IN-LINE 1/2" WATTS SERIES 7, BACKFLOW PREVENTER, OR EQUAL FOR THE RELOCATED SCOTSMAN B55PSA ICE MAKER.



GAS FURNACE INSTALLATION

NOT TO SCALE

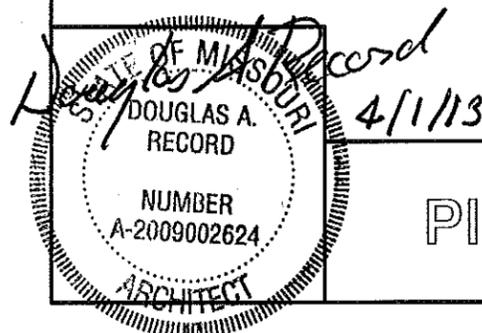
MECHANICAL NOTES

1. SUPPLY AND INSTALL EQUIPMENT & MATERIALS IN ACCORDANCE WITH THE LATEST NATIONAL ELECTRIC AND PLUMBING CODES.
2. INSTALL ALL NECESSARY EQUIPMENT AND APPURTENANCES TO FACILITATE A COMPLETE FUNCTIONING SYSTEM IN ACCORDANCE WITH ALL MECHANICAL AND ELECTRICAL CODES ACCORDING TO THE PLANS AND SPECIFICATIONS.
3. MECHANICAL SUBCONTRACTOR SHALL FULLY COORDINATE ALL WORK WITH PLUMBING AND ELECTRICAL WORKERS PRIOR TO BEGINNING OF THE MECHANICAL INSTALLATION.
4. DRAWINGS AND DIAGRAMS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FOR THE DIMENSIONS.
5. PROVIDE BLOCKING TO HVAC DEVICES AS REQUIRED FOR SECURE APPLICATION.
6. PROVIDE CONDENSATION PVC DRAIN LINE AS REQUIRED FOR THE FORCED AIR GAS FURNACE ON TOP OF 201 MEZZANINE TO 104 BREAK ROOM.
7. 6" CONCRETE PAD FOR THE CONDENSATION UNIT BY THE GENERAL CONTRACTOR. FOOTPRINT SIZE AS REQUIRED.
8. ALL EQUIPMENT AND MATERIALS, IN PARTICULAR VALVES, FILTERS, MOTORS AND CONTROLS SHALL BE ARRANGED TO PROVIDE PROPER CLEARANCE FOR SERVICE, MAINTENANCE AND INSPECTION.
9. SEE REFLECTED CEILING PLAN FOR EXACT DIFFUSER LOCATIONS.

A
21

PLUMBING & MECHANICAL NOTES

SCALE: NONE

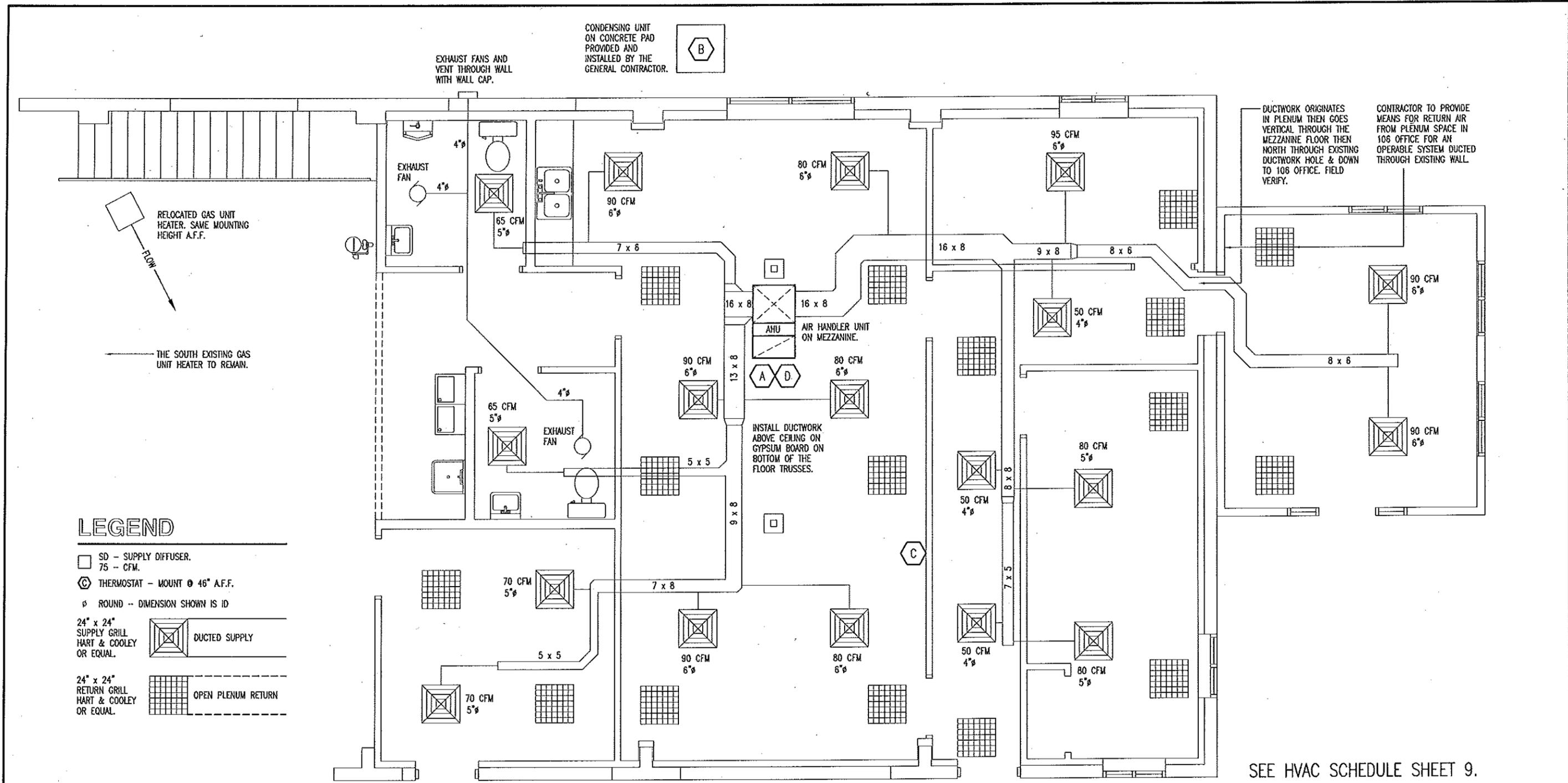


Plumbing & Mechanical Notes

MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

BOLIVAR MAINTENANCE BUILDING RENOVATION
2816 West Broadway
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LEGEND

- SD - SUPPLY DIFFUSER.
75 - CFM.
- ⊙ THERMOSTAT - MOUNT @ 46" A.F.F.
- ⌀ ROUND -- DIMENSION SHOWN IS ID
- 24" x 24" SUPPLY GRILL
HART & COOLEY
OR EQUAL. DUCTED SUPPLY
- 24" x 24" RETURN GRILL
HART & COOLEY
OR EQUAL. OPEN PLENUM RETURN

SEE HVAC SCHEDULE SHEET 9.

A
22
MECHANICAL PLAN
 SCALE: 3/16" = 1'-0"

Record
 MISSOURI DEPARTMENT OF TRANSPORTATION
 DOUGLAS A. RECORD
 NUMBER A-2009002624
 ARCHITECT
 4/1/13

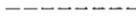
MECHANICAL PLAN

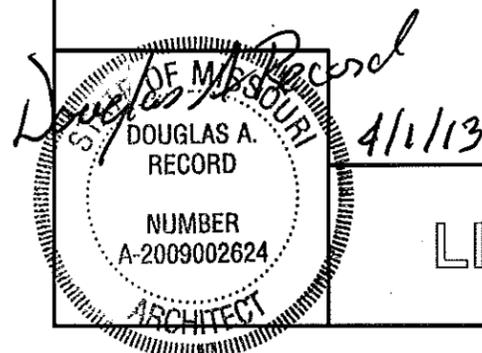
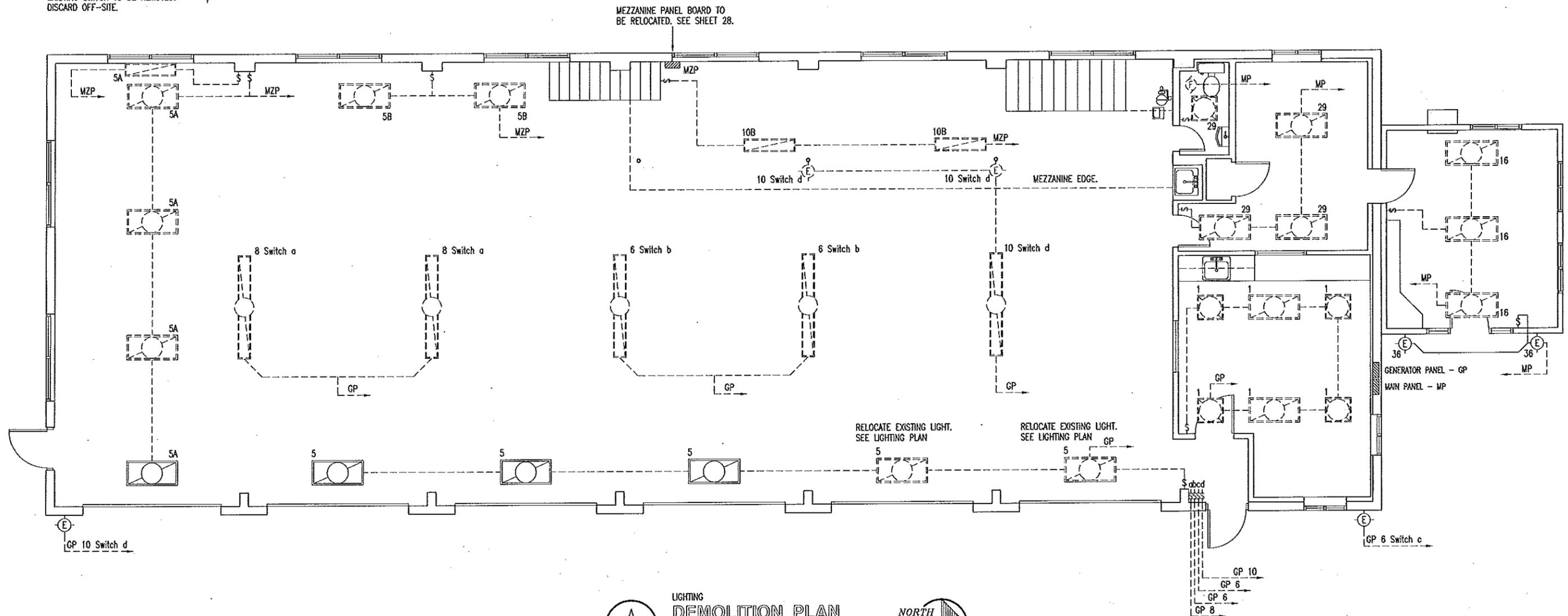
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 DIVISION OF GENERAL SERVICES
 FACILITIES MANAGEMENT

BOLIVAR MAINTENANCE BUILDING RENOVATION
 2816 West Broadway
 Southwest District - Polk County

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LEGEND

- CONDUITS AND CONDUCTORS TO REMAIN. 
- CONDUITS AND CONDUCTORS TO BE REMOVED BACK TO PANEL BOARD. DISCARD OFF-SITE. 
- EXISTING LIGHTING TO REMAIN. 
- EXISTING LIGHTING TO BE REMOVED. DISCARD OFF-SITE. 
- EXISTING SWITCH TO REMAIN. 
- EXISTING SWITCH TO BE REMOVED. DISCARD OFF-SITE. 



LIGHTING DEMOLITION PLAN

MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

BOLIVAR MAINTENANCE BUILDING RENOVATION
2816 West Broadway
Southwest District - Polk County

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DATE: 3-22-13
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LEGEND

CONDUITS AND CONDUCTORS TO BE REMOVED BACK TO SERVICE PANEL. DISCARD OFF-SITE.

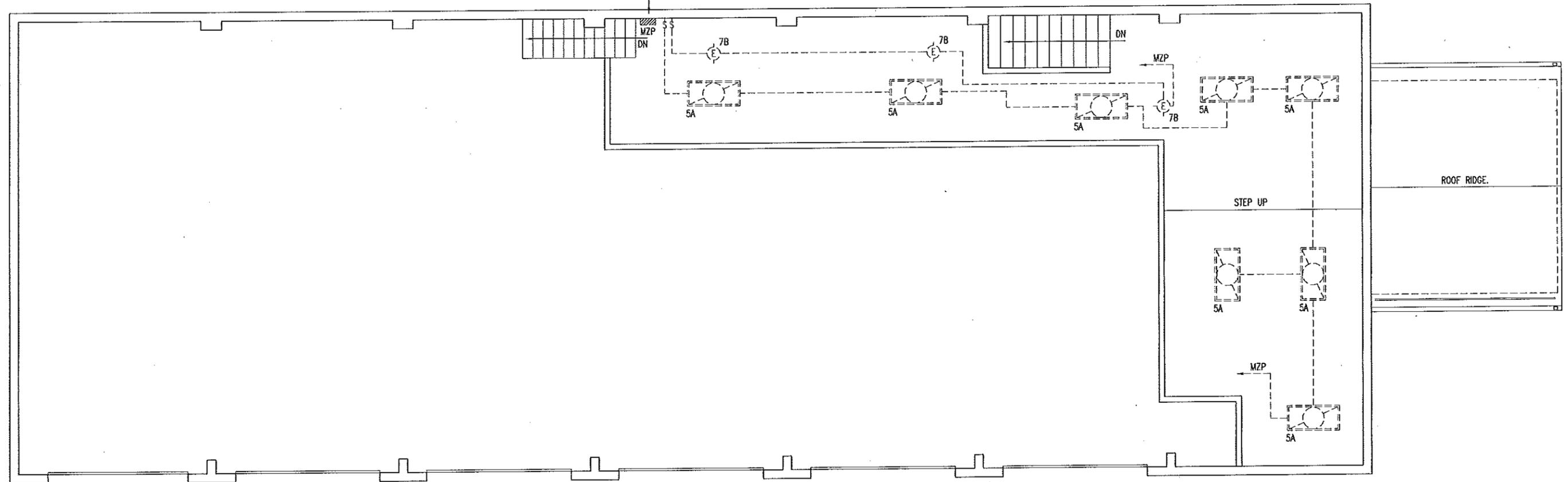
EXISTING LIGHTING TO BE REMOVED. DISCARD OFF-SITE.

EXISTING SWITCH TO BE REMOVED.

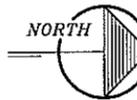
EXISTING FIXTURE TO BE REMOVED. DISCARD OFF-SITE.



MEZZANINE SERVICE PANEL TO BE RELOCATED. SEE SHEET 28.



MEZZANINE LIGHTING DEMOLITION PLAN
 A
 24
 SCALE: 1/8" = 1'-0"



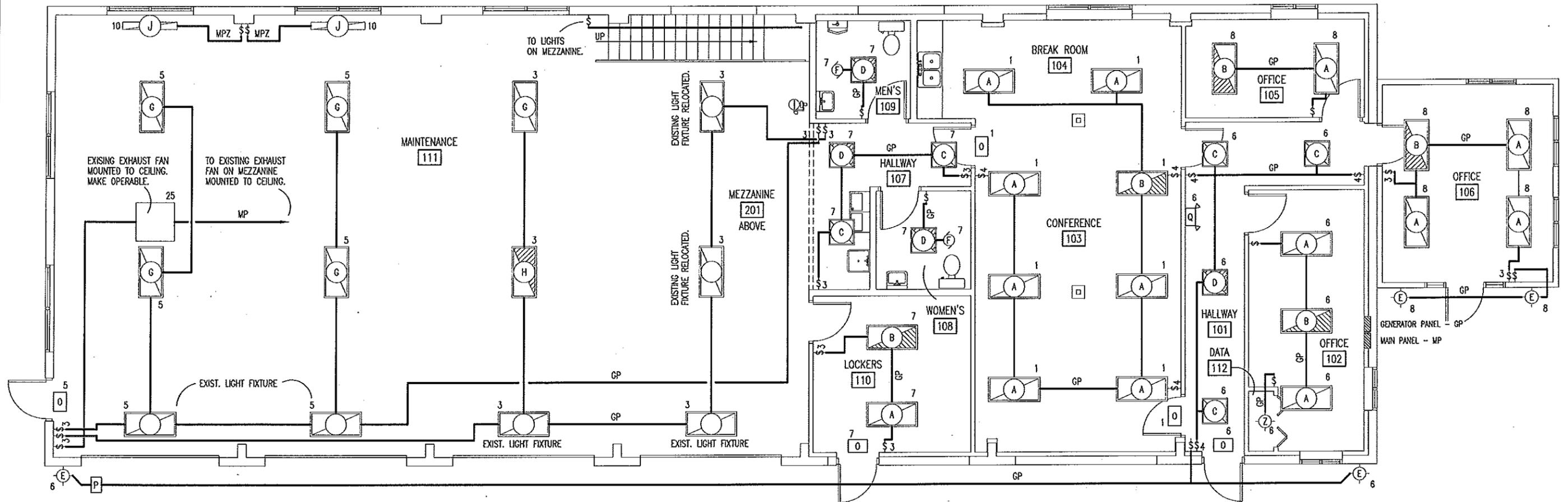
Record
 MISSOURI ARCHITECTS ASSOCIATION
 DOUGLAS A. RECORD
 NUMBER A-2009002624
 ARCHITECT
 4/1/13

Mezz. Lighting Demolition Plan

MISSOURI DEPARTMENT OF TRANSPORTATION
 DIVISION OF GENERAL SERVICES
 FACILITIES MANAGEMENT

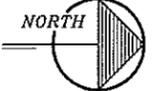
BOLIVAR MAINTENANCE BUILDING RENOVATION
 2816 West Broadway
 Southwest District - Polk County

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 DATE: 3-22-13
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SEE ELECTRICAL SCHEDULE SHEET 26.

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



OFFICE OF RECORD
 DOUGLAS A. RECORD
 ARCHITECT
 NUMBER A-2009002624
 4/1/13

LIGHTING PLAN

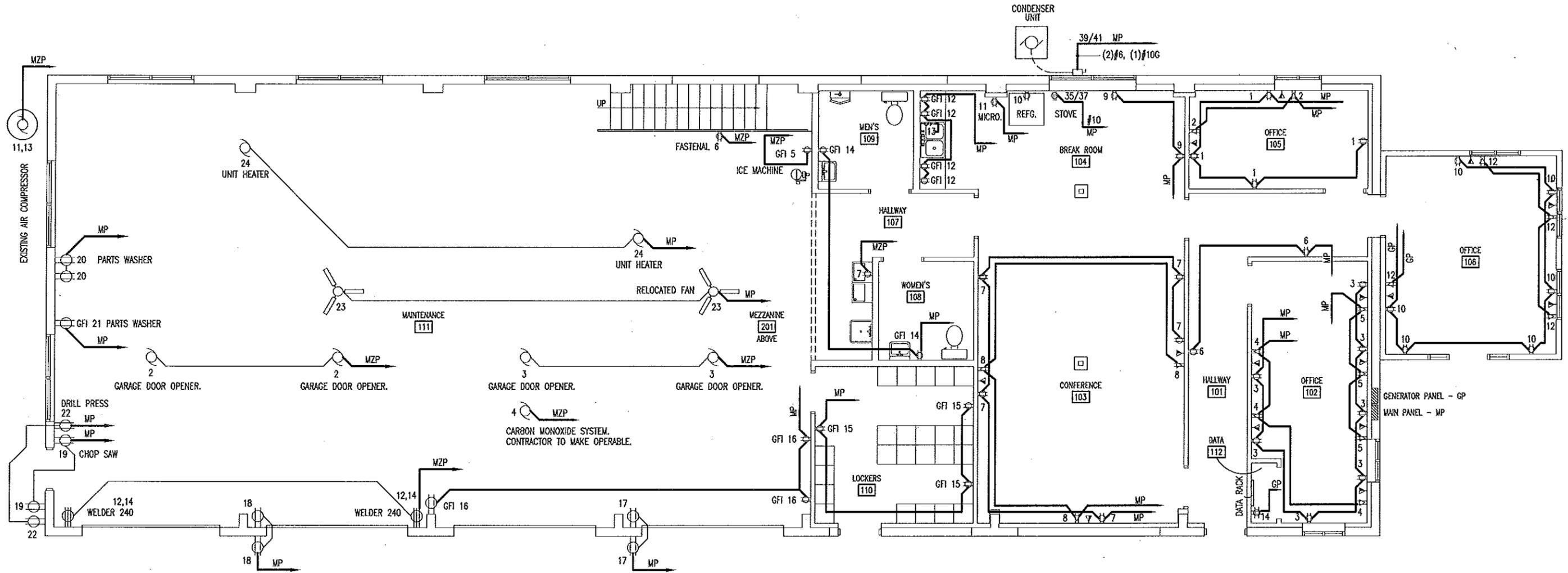
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 FACILITIES MANAGEMENT

BOLIVAR MAINTENANCE BUILDING RENOVATION
 2816 West Broadway
 Southwest District - Polk County

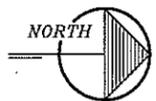
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LEGEND

CONDUITS AND CONDUCTORS TO REMAIN. _____
 CONDUITS AND CONDUCTORS TO BE NEW BACK TO SERVICE. _____



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



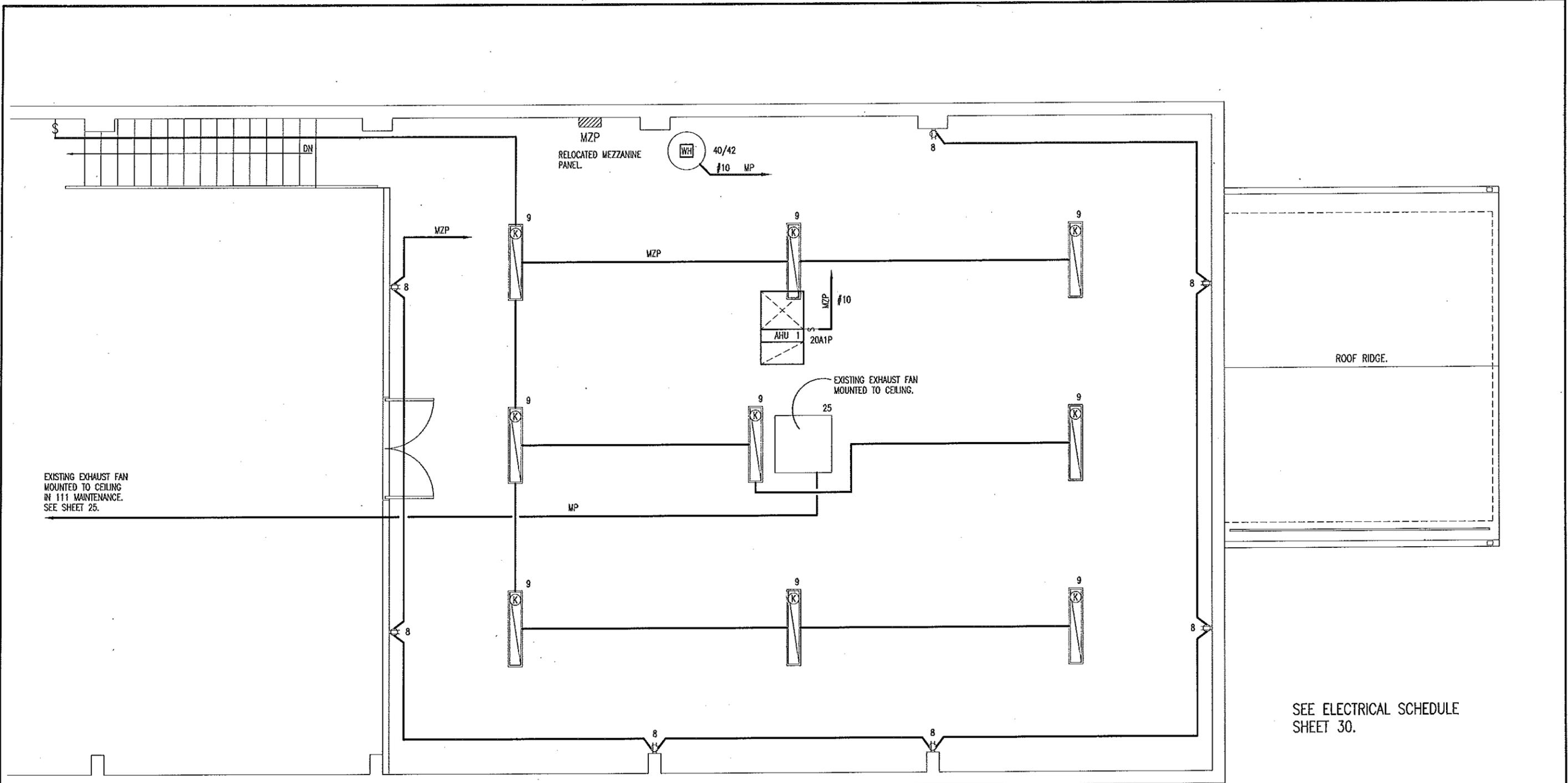
Record
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 ARCHITECT
 NUMBER A-2009002624
 4/1/13

POWER PLAN

MISSOURI DEPARTMENT OF TRANSPORTATION
 DIVISION OF GENERAL SERVICES
 FACILITIES MANAGEMENT

BOLIVAR MAINTENANCE BUILDING RENOVATION
 2816 West Broadway
 Southwest District - Polk County

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MEZZANINE ELECTRICAL PLAN

SCALE: 3/16" = 1'-0"

NORTH

STATE OF MISSOURI
 DOUGLAS A. RECORD
 ARCHITECT

MEZZANINE ELECTRICAL PLAN

MISSOURI DEPARTMENT OF TRANSPORTATION
 DIVISION OF GENERAL SERVICES FACILITIES MANAGEMENT

BOLIVAR MAINTENANCE BUILDING RENOVATION
 2816 West Broadway
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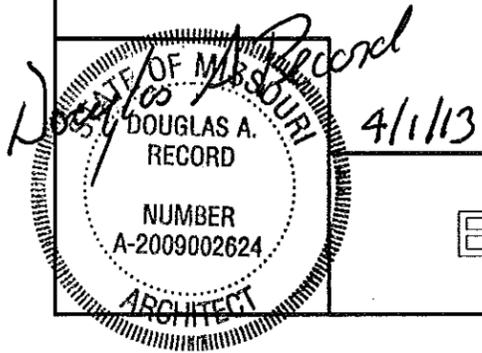
Existing Main Panel in Breakroom - MP						
MAIN BUS: 225A MLO VOLTS: 240/120, 1PH, 3-WIRE BUS MATERIAL: COPPER MOUNTING: RECESSED		REMOVE EXISTING BREAKERS AND DISCARD. EXISTING PANEL BOARD TO REMAIN. PROVIDE NEW CONDUIT, CONDUCTORS AND BREAKERS AS REQUIRED FOR AN OPERABLE SERVICE.				
CIR	SERVICE	BKR		BKR	SERVICE	CIR
1	RESTROOM HEATER	20A2P	A		SPACE	2
3			B		SPACE	4
5	TIN BUILDING	30A2P	A	20A2P	SPARE	6
7			B			8
9	WATER HEATER	20A2P	A	20A2P	106 -- PTAC UNIT	10
11			B			12
13	SPACE		A	20A1P	106 -- RECEPTACLES	14
15	SPACE		B	20A1P	106 -- LIGHTS	16
17	SPACE		A	20A1P	SPACE	18
19	SPACE		B	20A1P	BREAK ROOM RECEPTACLES	20
21	SPACE		A	20A1P	111 -- DRILL PRESS RECEPTACLE	22
23	UNIT HEATERS	20A1P	B	20A1P	111 -- CHOP SAW RECEPTACLE	24
25	111 -- OVERHEAD RECEPTACLES 111 -- IN & OUT RECEPTACLES	15A1P 15A1P	A	20A1P	111 MAINTENANCE -- RECEPTACLE	26
27	111 MAINTENANCE -- RECEPTACLES	20A1P	B	20A1P	111 MAINTENANCE -- FANS	28
29	RESTROOM LIGHTS	30A1P	A	20A1P	111 MAINTENANCE -- DROP CORD	30
31	MICROWAVE	20A1P	B	20A1P	111 MAINTENANCE -- PARTS WASHER	32
33	AHU ON MEZZANINE	60A2P	A	20A1P	BREAK ROOM -- RECEPTACLES	34
35			B	20A1P	BREAK ROOM -- RECEPTACLES	36
37	CONDENSING UNIT	20A1P	A	20A1P	SPARE	38
39			B	20A1P	BREAK ROOM -- RECEPTACLES	
			A	15A1P	111 -- GFCI PARTS WASHER	40
			B	15A1P	SPARE	

EXISTING MEZZANINE PANEL - MZP						
MAIN BUS: 100A MLO VOLTS: 240/120, 1PH, 3-WIRE BUS MATERIAL: COPPER MOUNTING: SURFACE		REMOVE EXISTING BREAKERS AND DISCARD. EXISTING PANEL BOARD TO BE RETAINED AND RELOCATED. PROVIDE NEW CONDUIT, CONDUCTORS AND BREAKERS AS REQUIRED FOR AN OPERABLE SERVICE.				
CIR	SERVICE	BKR		BKR	SERVICE	CIR
1	111 -- GARAGE DOOR OPENERS	20A1P	A	20A1P	111 -- WATER COOLER	2
3	111 -- GARAGE DOOR OPENERS	20A1P	B	20A2P	111 -- ICE MACHINE	4
5	MEZZANINE LIGHTS	20A1P	A			6
7	TROFFER LIGHTS CEILING WEST SIDE ENGINE EXHAUST VENTILATION KEYLESS LIGHTS ON MEZZANINE	20A1P 20A1P 20A1P	B	20A1P	FASTENAL VENDING MACHINE	8
9	WELDER AND COMPRESSOR	60A2P	A	20A1P	WALKIE TALKIE/FASTENAL TOOL LOCKER LIGHTS UNDER MEZZANINE	10
11			B	20A1P	111 -- GARAGE DOOR OPENER	12
13	SPACE				SPACE	14
15	SPACE				SPACE	16
17	SPACE				SPACE	18
19	SPACE				SPACE	20
21	SPACE				SPACE	22
23	SPACE				SPACE	24

Existing Generator Panel in Break Room - GP						
		REMOVE EXISTING BREAKERS AND DISCARD. EXISTING PANEL BOARD TO REMAIN. PROVIDE NEW CONDUIT, CONDUCTORS AND BREAKERS AS REQUIRED FOR AN OPERABLE SERVICE.				
CIR	SERVICE	BKR		BKR	SERVICE	CIR
1	BREAK ROOM -- LIGHTS	20A1P	A	40A2P	SUB-PANEL LPB ON MEZZANINE	2
3	111 -- SHOP LIGHT	20A1P	B			4
5	111 MAINTENANCE -- HIGH BAY LIGHTS	20A1P	A	20A1P	111 -- LIGHTS	6
7	SPARE	20A1P	B	20A1P	111 -- LIGHTS	8
9	FUEL PUMP WEST SIDE	20A1P	A	20A1P	111 -- LIGHTS	10
11	FUEL PUMP NORTH AND EAST	20A1P	B	20A1P	CREW LEADER COMPUTER RECEPT.	12
13	FUEL PUMP CONTROL/CARD READER	20A1P	A		SPACE	14

MAINTAIN AS OPERABLE DURING CONSTRUCTION.

A
29 EXISTING SERVICE PANELS
SCALE: NONE



EXISTING SERVICE PANELS

MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

BOLIVAR MAINTENANCE BUILDING RENOVATION
2816 West Broadway
Southwest District -- Polk County

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DRAWN BY: LARRY CARVER
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SERVICE PANEL - MP									
MAIN BUS: 225A MLO VOLTS: 240/120, 1PH, 3-WIRE BUS MATERIAL: COPPER MOUNTING: RECESSED			REUSE EXISTING SERVICE PANEL ONLY. PROVIDE NEW BREAKERS.			CONNECTED LOAD A PHASE 16834 VA B PHASE 15778 VA TOTAL 32612 VA 136 A			
CIR	SERVICE	VA	BKR		BKR	VA	SERVICE		CIR
1	105 - RECEPTACLES	720	20A1P	A	20A1P	360	105 - DEDICATED RECEPTACLES		2
3	102 - RECEPTACLES	1260	20A1P	B	20A1P	540	102 - DEDICATED RECEPTACLES		4
5	102 - DEDICATED RECEPTACLES	540	20A1P	A	20A1P	360	101 - RECEPTACLES		6
7	103 - RECEPTACLES	900	20A1P	B	20A1P	540	103 - DEDICATED RECEPTACLES		8
9	104 - RECEPTACLES	360	20A1P	A	20A1P	600	REFRIGERATOR		10
11	MICROWAVE	800	20A1P	B	20A1P	720	104 - BREAK ROOM GFI RECEPTACLES		12
13	104 - GARBAGE DISPOSAL	972	20A1P	A	20A1P	360	108, 109 - GFI RECEPTACLES		14
15	110 - GFI RECEPTACLES	540	20A1P	B	20A1P	540	111 - GFI RECEPTACLES		16
17	111 - GFI RECEPTACLES	1000	30A1P	A	30A1P	1000	111 - GFI RECEPTACLES		18
19	111 - CHOP SAW	1980	30A1P	B	30A1P	360	111 - PARTS WASHER		20
21	111 - PARTS WASHER GFI RECEPT.	180	20A1P	A	20A1P	1980	111 - DRILL PRESS		22
23	111 - CEILING FANS	156	20A1P	B	20A1P	1980	111 - UNIT HEATERS		24
25	111 & 201 EXHAUST FANS	1536	20A1P	A			SPACE		26
27	SPACE			B			SPACE		28
29	SPACE			A			SPACE		30
31	SPACE			B			SPACE		32
33	SPACE			A			SPACE		34
35	104 - RANGE	2250	30A2P	B			SPACE		36
37		2250		A			SPACE		38
39	AIR CONDENSER UNIT	2016	25A2P	B	30A2P	2600	WATER HEATER		40
41		2016		A		2600			42

⊗ CIRCUIT BREAKER SHALL BE GFI RATED

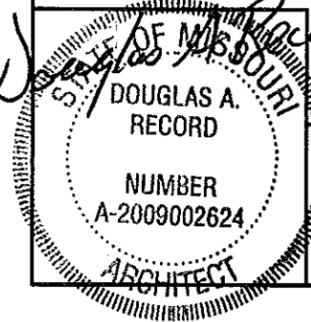
MEZZANINE PANEL - MZP									
MAIN BUS: 225A MLO VOLTS: 240/120, 1PH, 3-WIRE BUS MATERIAL: COPPER MOUNTING: RECESSED			REUSE EXISTING SERVICE PANEL ONLY. PROVIDE NEW BREAKERS.			CONNECTED LOAD A PHASE 14232 VA B PHASE 13328 VA TOTAL 27560 VA 115 A			
CIR	SERVICE	VA	BKR		BKR	VA	SERVICE		CIR
1	201 - AHU	1092	20A1P	A	20A1P	1176	111 - GARAGE DOOR OPENERS		2
3	111 - GARAGE DOOR OPENERS	1176	20A1P	B	30A1P	1656	111 - CARBON MONOXIDE SYSTEM		4
5	ICE MACHINE	2000	30A1P	A	20A1P	180	FASTENAL RECEPTACLE		6
7	111 - WATER COOLER	336	20A1P	B	20A1P	1260	201 - RECEPTACLES		8
9	201 - LIGHTS	756	20A1P	A	20A1P	128	111 - LIGHTS WORK BENCHES		10
11	AIR COMPRESSOR	4800	50A2P	B	50A2P	4100	WELDER RECEPTACLES		12
13		4800		A	20A1P	4100			14
15			20A1P	B	20A1P				16
17			20A1P	A	20A1P				18
19			20A1P	B	20A1P				20
21			20A1P	A	20A1P				22
23			20A1P	B	15A1P				24

⊗ CIRCUIT BREAKER SHALL BE GFI RATED

GENERAL PANEL - GP									
FIELD VERIFY			REUSE EXISTING SERVICE PANEL ONLY. PROVIDE NEW BREAKERS.			CONNECTED LOAD A PHASE 18969 VA B PHASE 18558 VA TOTAL 37526 VA 156 A			
CIR	SERVICE	VA	BKR		BKR	VA	SERVICE		CIR
1	103, 104 LIGHTS	772	20A1P	A	100A 2P	13780	SUB-PANEL (MPZ) ON MEZZANINE		2
3	111 - LIGHTS	1296	20A1P	B		13780			4
5	111 - LIGHTS	1346	20A1P	A	20A1P	910	105, 106 - LIGHTS, EXTERIOR LIGHTS		6
7	107,108,109,110 - LIGHTS & FANS	906	20A1P	B	20A1P	1496	101, 102 - LIGHTS		8
9	FUEL PUMP WEST SIDE	360	20A1P	A	20A1P	1080	106 - RECEPTACLES		10
11	FUEL PUMP NORTH AND EAST	360	20A1P	B	20A1P	720	106 - COMPUTER RECEPTACLES		12
13	FUEL PUMP CONTROL/CARD READER	360	20A1P	A	20A1P	360	201 - DATA RACK		14

MAINTAIN AS OPERABLE
DURING CONSTRUCTION.

A NEW SERVICE PANELS
30 SCALE: NONE



4/1/13

NEW SERVICE PANELS

MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

BOLIVAR MAINTENANCE BUILDING RENOVATION
2816 West Broadway
Southwest District - Polk County

DESIGN BY: LARRY CARYER
DRAWN BY: LARRY CARYER
DATE: 3-29-13
Sheet
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ELECTRIC SCHEDULE

MANUF.	MODEL	LAMPS TYPE	W	MNT	REMARKS
WILLIAMS 	50G-S24-328-T5S-RPC12125-EB3-UNV	3 FLUORESCENT	28	CLG	24" x 48" STATIC TROFFER FIXTURE, WITH FULL DOOR FRAME, NO REVEAL, WHITE ALUMINUM, AND ELECTRONIC BALLAST.
WILLIAMS 	50G-S24-328-T5S-RPC12125-EM/700-EB3-UNV	3 FLUORESCENT	28	CLG	24" x 48" STATIC TROFFER FIXTURE, WITH FULL DOOR FRAME, NO REVEAL, WHITE ALUMINUM, ELECTRONIC BALLAST, EMERGENCY BATTERY PACK.
WILLIAMS 	50G-S22-314-T5S-RPC12125-EB2/1-UNV	3 FLUORESCENT	14	CLG	24" x 24" STATIC TROFFER FIXTURE, WITH FULL DOOR FRAME, NO REVEAL, WHITE ALUMINUM, AND ELECTRONIC BALLAST.
WILLIAMS 	50G-S22-414-T5S-RPC12125-EM Back Mount EMLP6-EM2/2-UNV	4 FLUORESCENT	14	CLG	24" x 24" STATIC TROFFER FIXTURE, WITH FULL DOOR FRAME, NO REVEAL, WHITE ALUMINUM,
EXISTING 	VARIES	VARIES		VARIES	CONNECT FOR AN OPERABLE SERVICE.
BROWN 	GRAINGER #5E832			CLG	80 CFM CEILING MOUNT BATHROOM VENTILATOR. 0.8 FULL LOAD AMPS. GRILLE SIZE: 10.25" X 10.25" ELECTRONIC BALLAST, EMERGENCY BATTERY PACK.
WILLIAMS 	GL-4-454T5H-HUB3/4" EB4-120	4 FLUORESCENT	54	CLG	14" x 48" LOW PROFILE FIXTURE, WITH WHITE ALUMINUM HOUSING, HIGH SPECULAR ALUMINUM REFLECTOR AND ELECTRONIC BALLAST.
WILLIAMS 	GL-4-454T5H-HUB3/4" EM7-EB4-120	4 FLUORESCENT	54	CLG	14" x 48" FIXTURE, WITH WHITE ALUMINUM HOUSING, HIGH SPECULAR ALUMINUM REFLECTOR ELECTRONIC BALLAST AND EMERGENCY BATTERY.
WILLIAMS 	29-4-2-32-A-EB2-UNV	2 FLUORESCENT	32	WALL	48" LONG SURFACE MOUNT FLUORESCENT LIGHT FIXTURE, WITH PAINTED STEEL HOUSING, AND ELECTRONIC BALLAST. MOUNT ABOVE WINDOW.
LITHONIA 	UN-3-28W-T5-120-GE810PS-W62UN	3 FLUORESCENT	28	CLG	9" x 48" HEAVY DUTY STRIP WITH WIRE GUARDS.
HUBBELL 	SERIES PRB			WALL	PATHFINDER SERIES EXIT LIGHT WITH WHITE THERMOPLASTIC HOUSING & UNIVERSAL MOUNT.
TORK 	2001			WALL	120V PHOTO ELECTRIC CONTROL OF EXTERIOR LIGHTS.
LITHONIA 	ELT50 N N1812 MT			WALL	"TITAN" EMERGENCY LIGHTING UNIT. MAINTENANCE FREE NICKEL-CADMIUM BATTERIES, 12V/18 WATT LAMPS AND METAL LAMP HEADS.
LITHONIA 	L7X 701 TOR	1 INCANDESCENT	60	CLG	6" RECESSED OPEN WIDE FLANGE DOWNLIGHT INCLUDE 60 WATT BULB.

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

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.

SEE HVAC SCHEDULE FOR EQUIPMENT TO BE HARD WIRED, PROVIDE SERVICE DISCONNECT AT EACH.

COORDINATE WORK WITH OTHER TRADES PRIOR TO COMMENCING WITH ELECTRICAL WORK.

FIXTURE LOCATIONS ARE APPROXIMATE, EXACT LOCATIONS TO BE DETERMINED AFTER COLLABORATION WITH THE OWNER AND OTHER TRADES.

CONTRACTOR SHALL PROVIDE SERVICE DISCONNECTS AS REQUIRED AT EXTERIOR OF BUILDING.

PROVIDE BLOCKING FOR ELECTRICAL DEVICES AS REQUIRED FOR A SECURE APPLICATION.

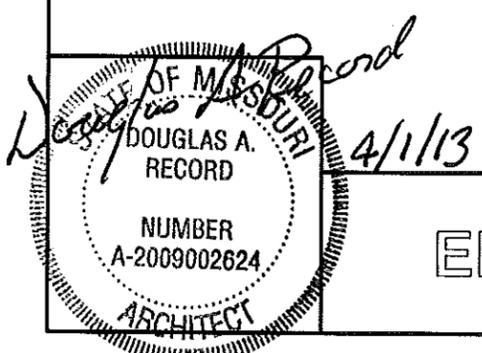
BATHROOM EXHAUST FANS ARE TO BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

CONTRACTOR TO INSTALL VOICE AND DATA RECEPTACLES. MODOT TO INSTALL CONDUIT AND DATA CABLING TO THEM. COORDINATE DURING CONSTRUCTION.

CONTRACTOR TO MAINTAIN DURING CONSTRUCTION THAT THE ELECTRICAL SERVICE FOR THE FUEL PUMP, WEST SIDE, FUEL PUMP NORTH AND EAST AND THE FUEL PUMP CONTROL/CARD READER REMAINS FUNCTIONAL.

LEGEND

- \$ SINGLE POLE SWITCH, FLUSH MOUNTED IN FINISHED AREAS @ 48" A.F.F.
- \$3 3-WAY SWITCH, FLUSH MOUNTED IN FINISHED AREAS @ 48" A.F.F.
- \$4 4-WAY SWITCH, FLUSH MOUNTED IN FINISHED AREAS @ 48" A.F.F.
- ⊕ DUPLEX RECEPTACLE FLUSH MOUNTED IN FINISHED AREAS @ 18" A.F.F. TO BOTTOM OF OUTLET.
- # FOUR-PLEX RECEPTACLE FLUSH MOUNTED IN FINISHED AREAS @ 18" A.F.F. TO BOTTOM OF OUTLET.
- ⊕ GFI DUPLEX RECEPTACLE WITH GROUND FAULT INTERRUPTER @ 48" A.F.F.
- NO FUSED DISCONNECT SWITCH.
- ∇ VOICE AND DATA OUTLET FLUSH MOUNTED IN FINISHED AREAS @ 18" A.F.F. TO BOTTOM OF OUTLET. MODOT TO INSTALL CABLING TO OUTLETS.
- ⊕ DEDICATED RECEPTACLE FLUSH MOUNTED IN FINISHED AREAS @ 18" A.F.F. TO BOTTOM OF OUTLET.



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ELECTRICAL SCHEDULES & NOTES
SCALE: NONE

Electrical Schedules & Notes

MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

BOLIVAR MAINTENANCE BUILDING RENOVATION
2816 West Broadway
Southwest District - Polk County

DESIGN BY: LARRY CARVER
DRAWN BY: LARRY CARVER
DATE: 3-26-13
Sheet
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