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MISSOURI DEPARTMENT
OF TRANSPORTATION

3-BAY FINISHED POLE BARN

CODE REQUIREMENTS

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

ALTERNATE CONDITIONS:

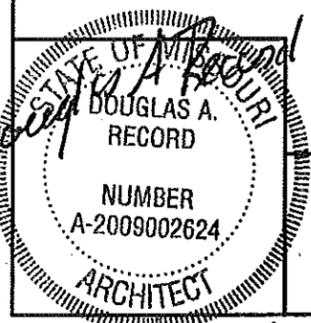
THE VARYING MAKEUP OF SOILS AND OCCURRENCE OF ROCK IN MANY MODOT DISTRICTS MAY REQUIRE CONSIDERABLE REDESIGN OF THE POST PLACEMENT BELOW GRADE FROM THAT SHOWN IN THESE DRAWINGS. THE BIDDER WILL BE RESPONSIBLE FOR OBTAINING ACCURATE INFORMATION FROM THE DISTRICTS FACILITIES MANAGER (I.E. DRILLINGS OR BORINGS INFORMATION 5'-0" DEEP AT EACH BUILDING CORNER AND AT LEAST ONE INTERMEDIATE SAMPLE TO THIS DEPTH ON THE LONG SIDES OF THE PROPOSED STRUCTURE) SO THAT THE BID WILL REFLECT ANY FOUNDATION REQUIREMENTS BEYOND THOSE SHOWN HERE. INFORMATION COULD INCLUDE PREVIOUS EXCAVATIONS THAT VERIFY FOOTING CONDITIONS THAT WILL BE ENCOUNTERED BY THIS CONTRACTOR.

REQUIRED BUILDING ELEMENTS:

2 x 6 WALL GIRTS - #2 SYP OR EQUAL.
FINISH COAT ON 26 GAUGE METAL SIDING TO BE FLOUROPOLYMER (KYNAR 500 OR EQUAL. POLYESTER IS NOT ACCEPTABLE.
POSTS TO BE A MINIMUM OF 4'-0" BELOW GRADE IN COMPACTED SOIL.

FABRICATOR NOTES:

THESE DRAWINGS ARE FURNISHED AS A GUIDE TO BIDDERS IN SUBMITTING THE COMPLETE PACKAGE OF DETAILED DRAWINGS OF THEIR PROPOSED STRUCTURE TO BE SEALED BY AN ARCHITECT/ENGINEER. WHERE "AS REQUIRED" IS USED THE BIDDER MUST FURNISH A DETAILED DESCRIPTION OF THE BUILDING ELEMENT TO BE FURNISHED.



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COVER SHEET

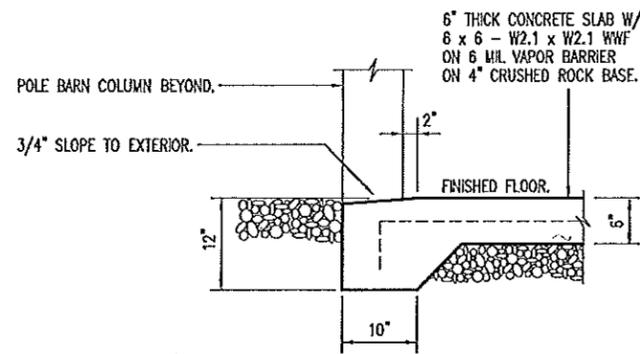
MISSOURI DEPARTMENT
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DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

3-BAY FINISHED POLE BARN

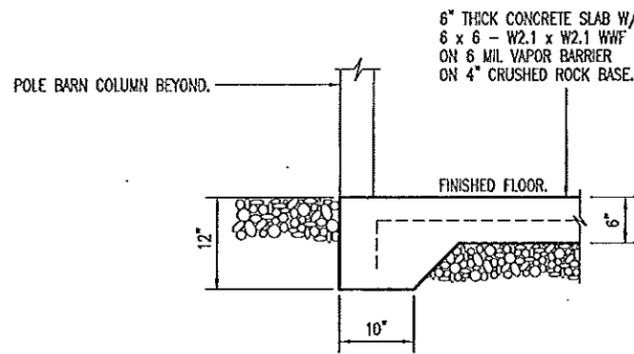
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CONCRETE NOTES

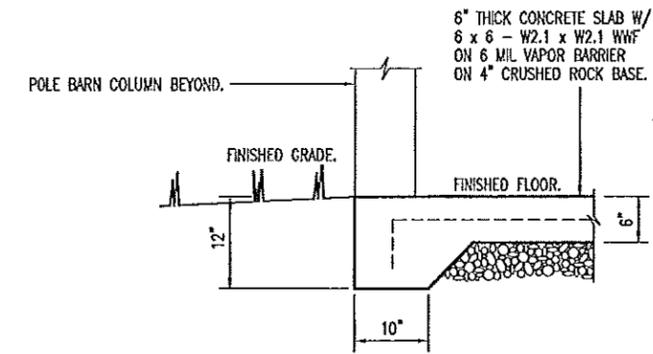
1. CONCRETE WORK SHALL BE EXECUTED IN STRICT COMPLIANCE WITH THE LATEST EDITION OF THE AMERICAN CONCRETE INSTITUTE (A.C.I.) MANUAL OF CONCRETE PRACTICE.
2. FOUNDATION DESIGN IS BASED UPON AN ASSUMED SOIL BEARING CAPACITY OF 2,000 PSF. IF WET OR UNUSUAL SOIL CONDITIONS ARE ENCOUNTERED, NOTIFY THE DESIGNER AND CONSTRUCTION INSPECTOR BEFORE PROCEEDING WITH THE WORK.
3. 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 WITH 4" SLUMP.
5. CONCRETE EXPOSED TO THE EXTERIOR SHALL RECEIVE AIR ENTRAINMENT 6% +/- 2%.
6. DEFORMED STEEL REINFORCING BARS SHALL BE: #4 AND LARGER ASTM A615 GRADE 60.
7. SEE SPECIFICATION SECTION 03300 CONCRETE FOR ADDITIONAL INFORMATION.
8. SAWED CONTROL JOINTS SHALL BE CLEANED FREE OF ALL DEBRIS AND FILLED WITH SEALANT. SEE SECTION 07900.



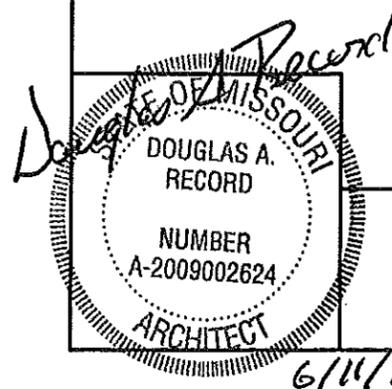
A
2
GARAGE DOOR
EXTERIOR SLAB
SCALE: 1/2" = 1'-0"



B
2
FLOOR SLAB EDGE
SCALE: 1/2" = 1'-0"



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



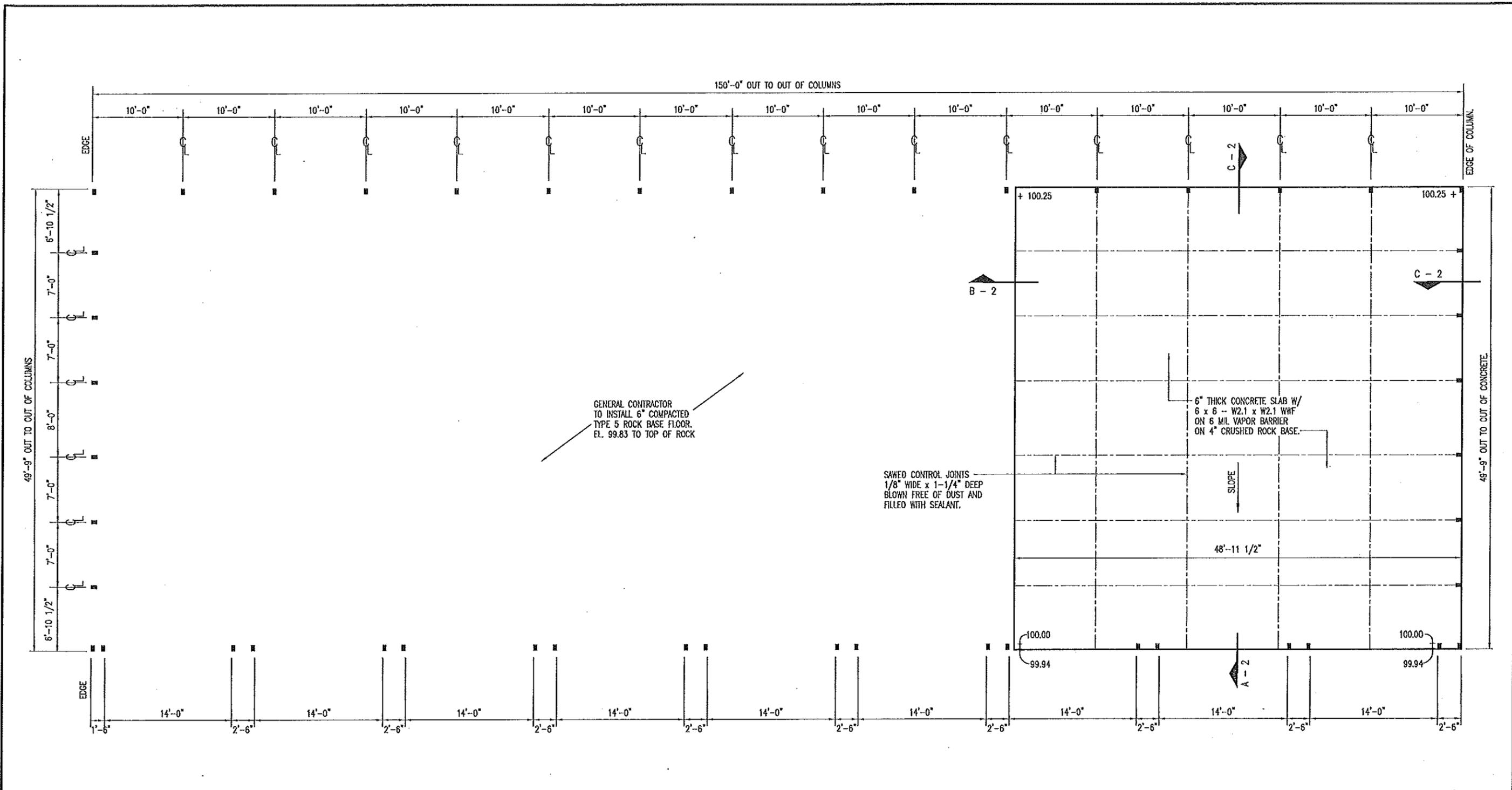
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FOUNDATION DETAILS

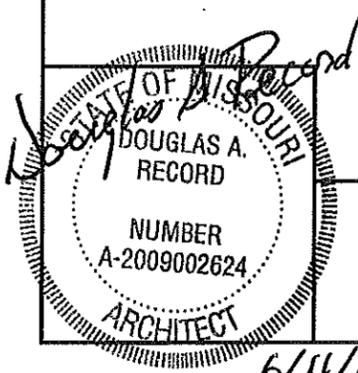
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FACILITIES MANAGEMENT

3-BAY FINISHED POLE BARN

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



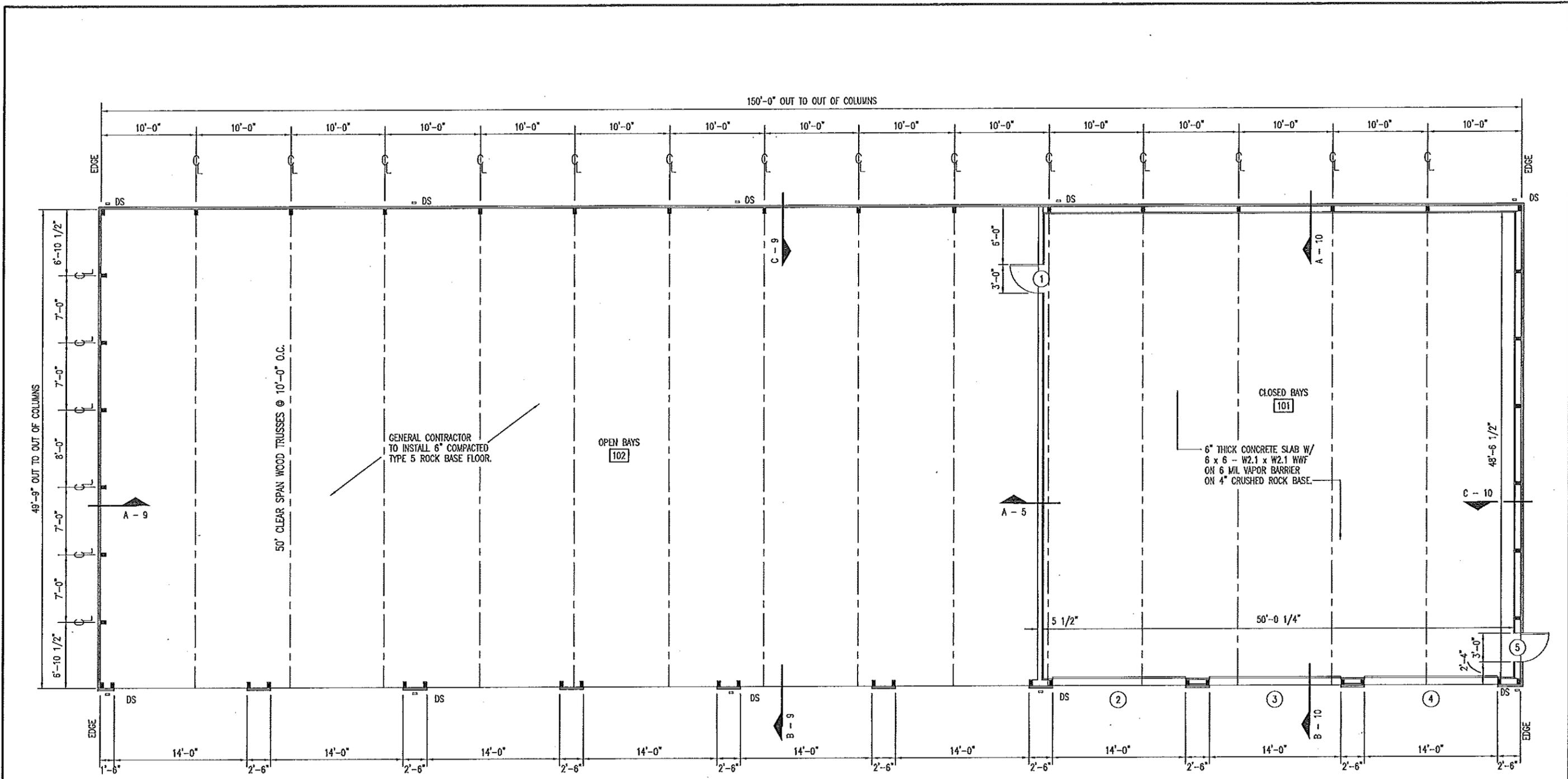
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CONCRETE SLAB PLAN

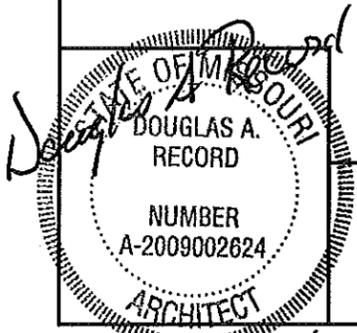
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3-BAY FINISHED POLE BARN

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



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FLOOR PLAN

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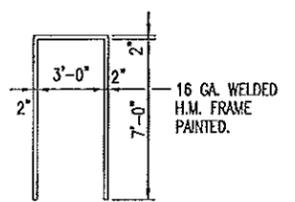
3-BAY FINISHED POLE BARN

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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	A	I	C-8	6-1/2"	1
2	14'-0" x 14'-0" x 2"	-	B	-	A & B-8	-	-
3	14'-0" x 14'-0" x 2"	-	B	-	A & B-8	-	-
4	14'-0" x 14'-0" x 2"	-	B	-	A & B-8	-	-
5	3'-0" x 7'-0" x 1-3/4"	RHR	A	I	F-8	6-1/2"	1

3'-0" x 7'-0" x 1-3/4"
INSULATED HOLLOW METAL
DOOR PAINTED PER
SPECIFICATION
SECTION 09900.

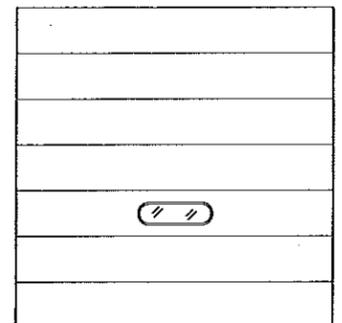
TYPE A



TYPE I

14'-0" x 14'-0" x 2"
2" THICK, R-17.5, INSULATED
PREFINISHED .016" METAL
GARAGE DOOR WITH ONE
INSULATED GLASS VIEW
WINDOW. 26 GA. STEEL
BACK COVER. WHITE BAKED
ON POLYESTER TOP COAT
PAINT ON BOTH SIDES.
(TYPICAL)

TYPE B

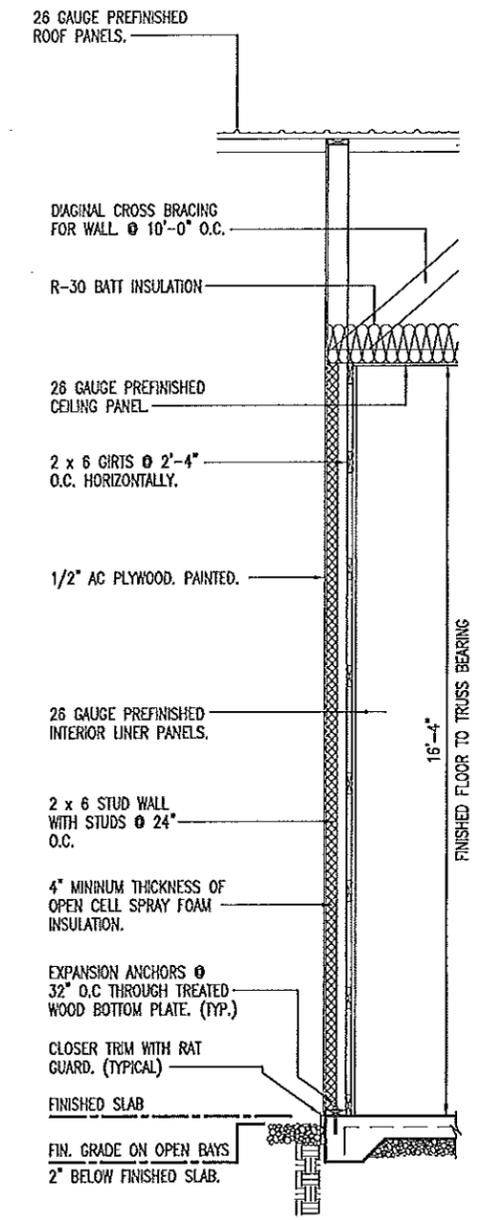


FINISH SCHEDULE							
NO.	ROOM	FLOOR		WALLS		BASE	CEILING
		CURE AND SEALER ON CONCRETE.	6" COMPACTED TYPE 5 ROCK.	26 GA. INTERIOR PANELS	1/2" AC PLYWOOD. PAINTED WHERE SHOWN.	NONE	26 GA. CEILING PANELS. NONE
101	CLOSED BAYS	•		•		•	•
102	OPEN BAYS WALL @ CLOSED BAYS		•	•	•	•	•

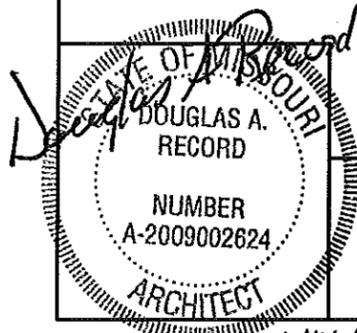
GENERAL NOTES:

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

HVAC SCHEDULE						
SYM.	UNIT	MANUFACTURER	BTU OUTPUT	FUEL	VOLTAGE	REMARKS
A	36" x 36" SHUTTER MOUNT EXHAUST FAN WITH WEATHERHOOD	DAYTON 1HLB6 & 1WBW2 OR EQUAL 6.4 AMPS	6,480 CFM	ELECTRIC	115	COMMERCIAL TYPE BELT DRIVE WALL EXHAUST FAN INCLUDING OSHA GUARD AND SHUTTER.
B	MOTORIZED DAMPER	DAYTON MODEL 3C728 OR EQUAL .37 AMPS	--	ELECTRIC	115	30" MEDIUM GRADE, MOTORIZED, GALVANIZED STEEL DAMPER WITH 1HP MOTOR. WIRE TO OPEN WHEN EXHAUST FAN IS TURNED ON.
C	GAS FIRED UNIT HEATER	REZNOR MODEL UDAP 250 OR EQUAL	207,500	NATURAL GAS	115	TWO STAGE, SINGLE BURNER COMBUSTION, DIRECT SPARK IGNITION, 100% LOCK-OUT & CL-1 STANDARD HEATING ONLY THERMOSTAT.



A MID-WALL SECTION
5 SCALE: 1/4" = 1'-0"



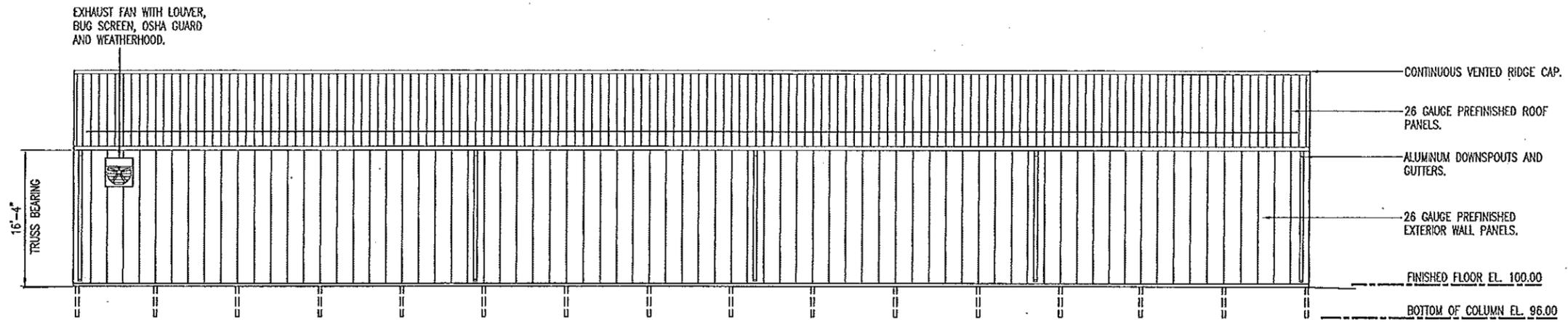
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SCHEDULES

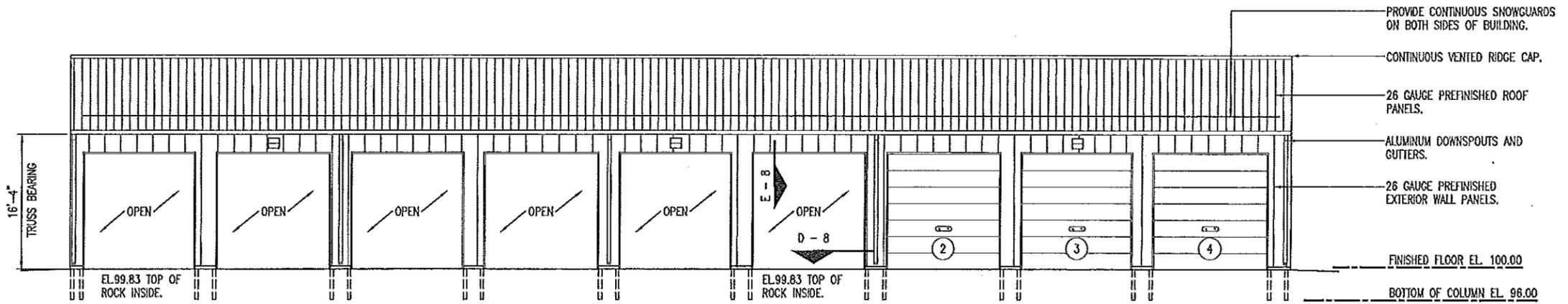
MISSOURI DEPARTMENT
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DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

3-BAY FINISHED POLE BARN

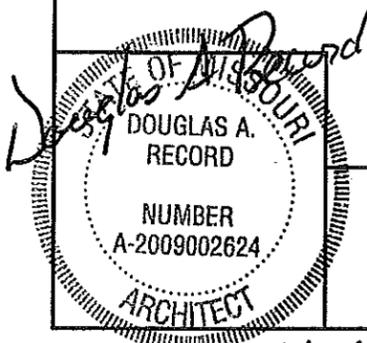
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B REAR ELEVATION
 6 SCALE: 1/16" = 1'-0"



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



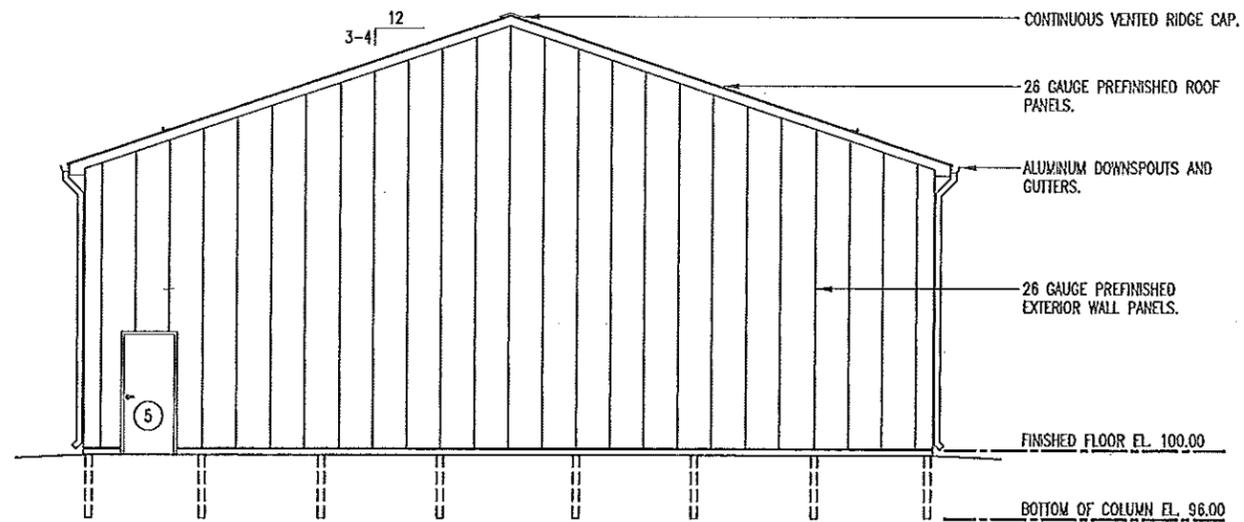
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FRONT & REAR ELEVATIONS

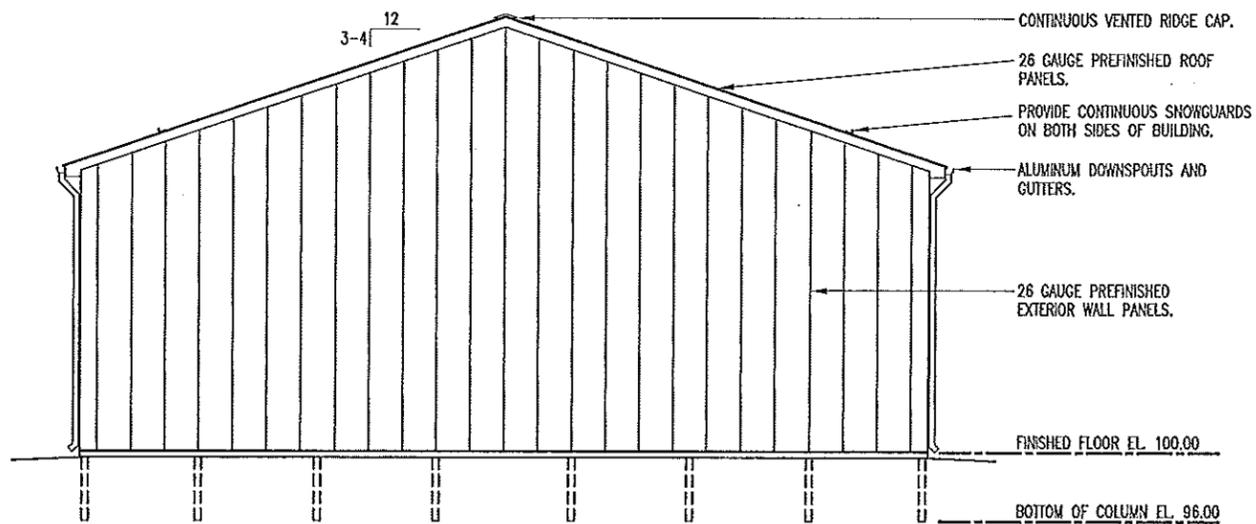
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 FACILITIES MANAGEMENT

3-BAY FINISHED POLE BARN

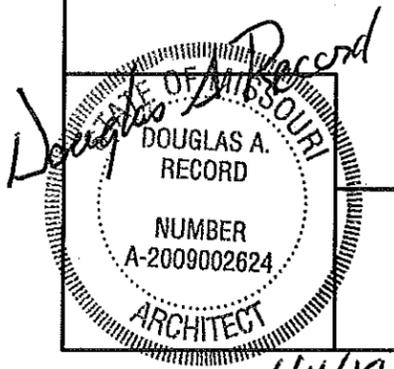
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B RIGHT ELEVATION
 7 SCALE: 3/32" = 1'-0"



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

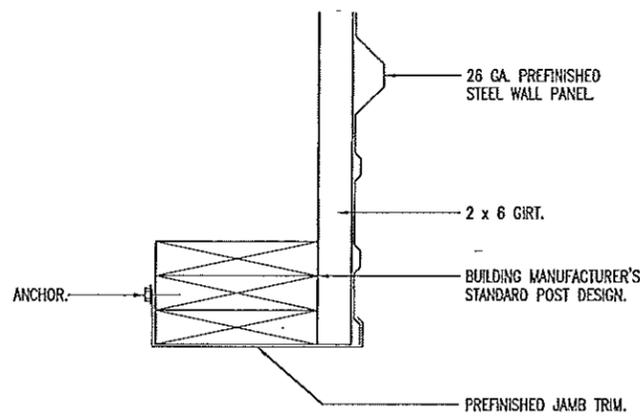


LEFT & RIGHT ELEVATIONS

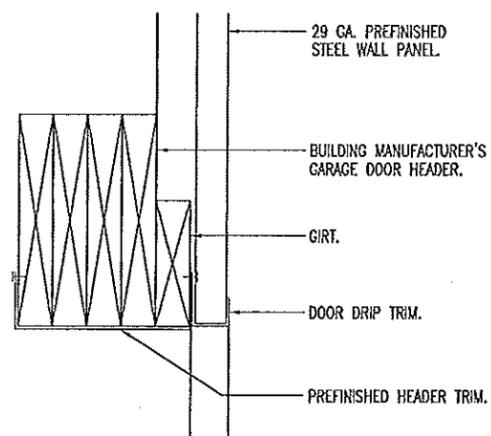
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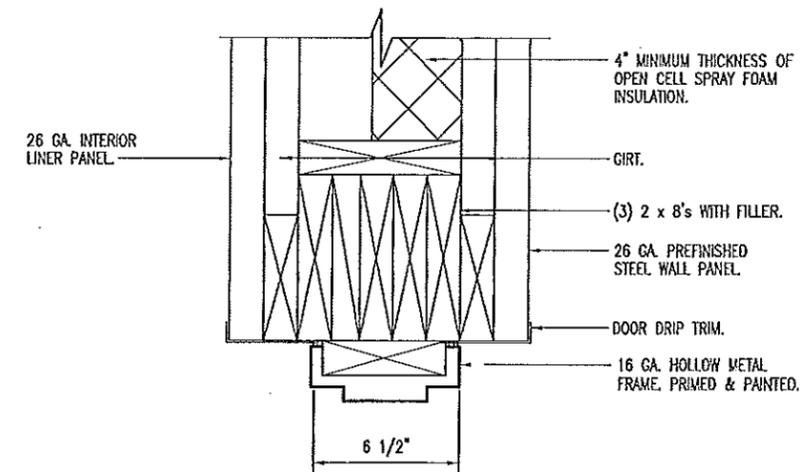
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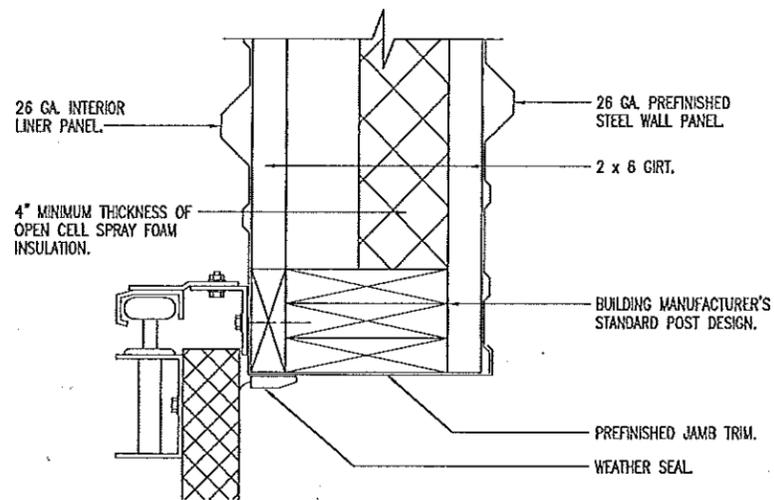
D GARAGE DOOR JAMB
8 SCALE: 1-1/2" = 1'-0"



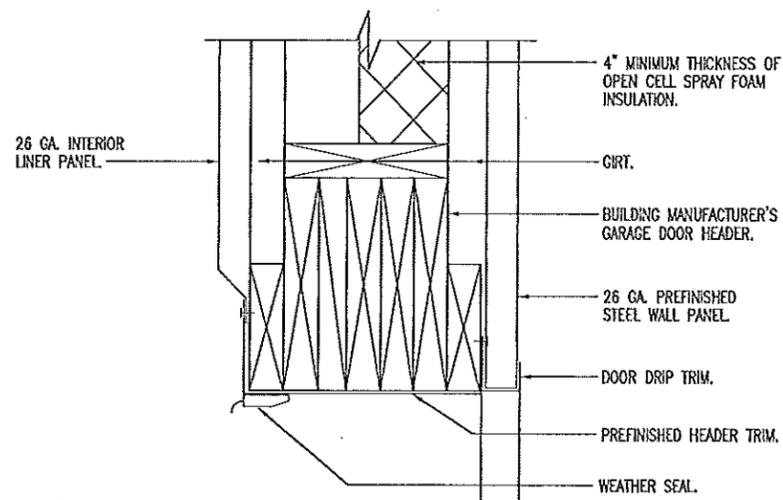
E GARAGE DOOR HEAD
8 SCALE: 1-1/2" = 1'-0"



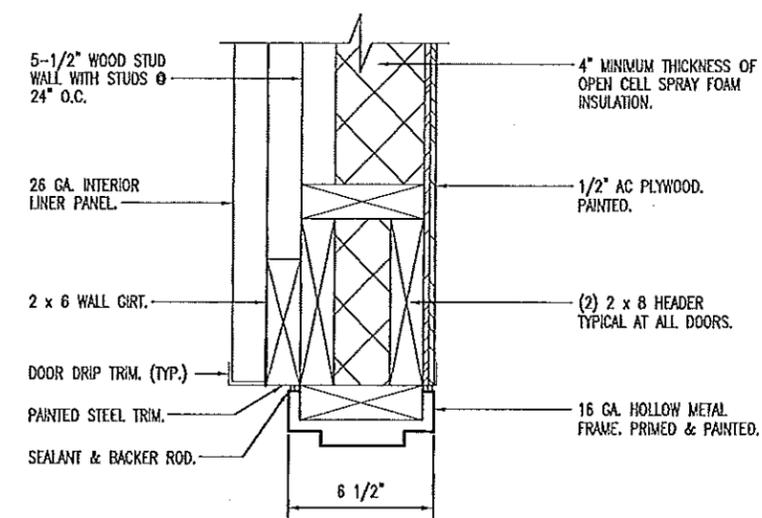
F JAMB SIMILAR DOOR HEADER
8 SCALE: 1-1/2" = 1'-0"



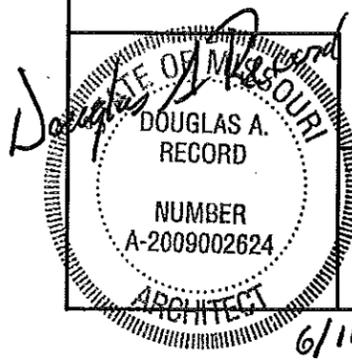
A GARAGE DOOR JAMB
8 SCALE: 1-1/2" = 1'-0"



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



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

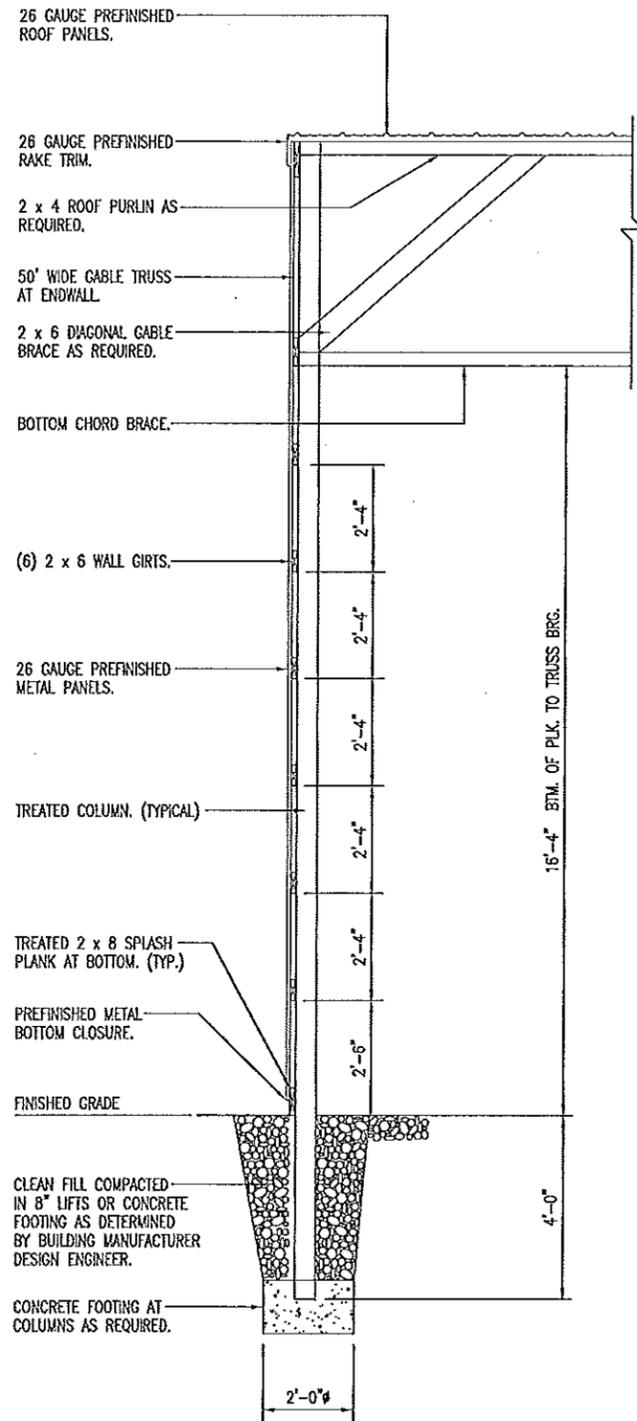


HEAD & JAMB DETAILS

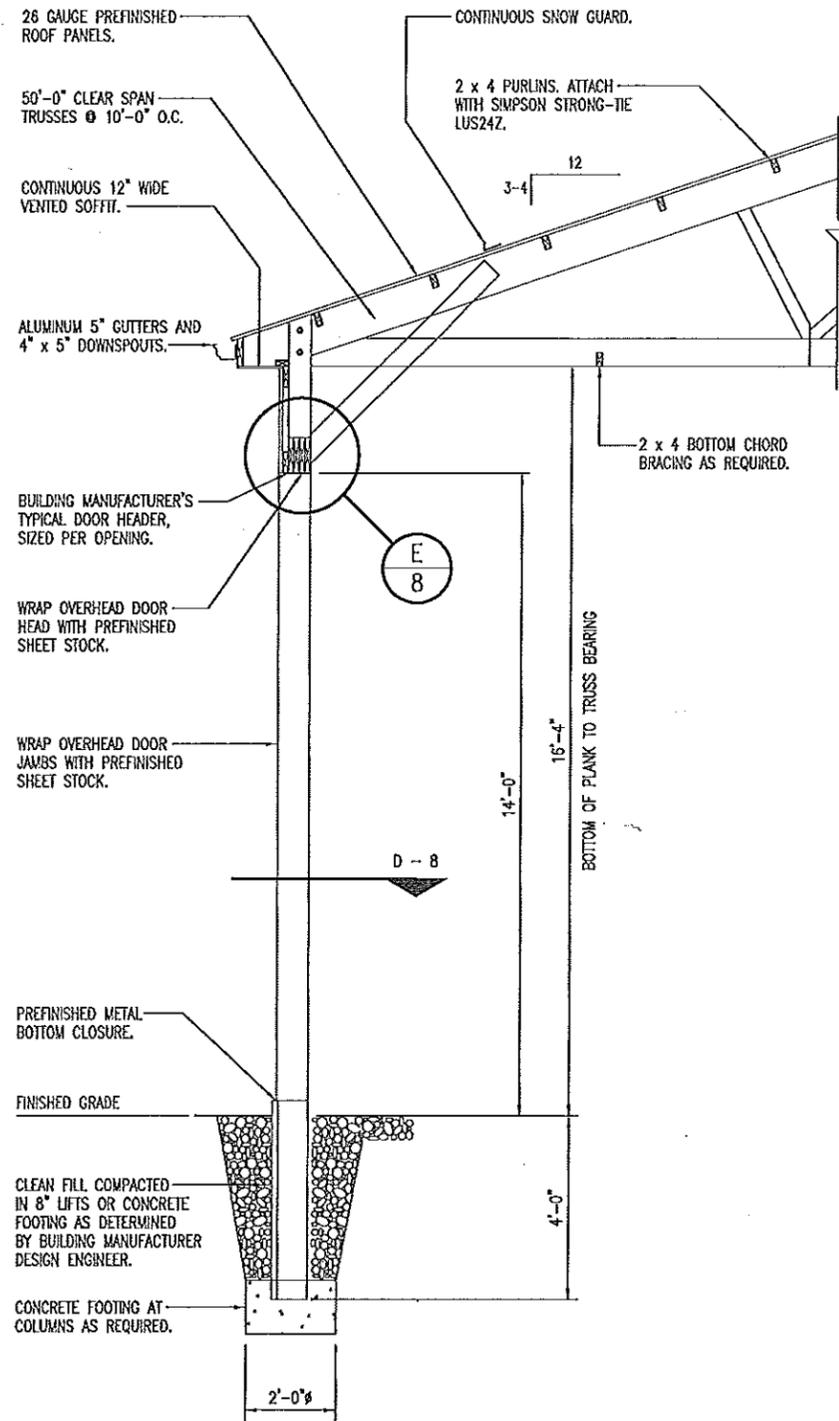
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FACILITIES MANAGEMENT

3-BAY FINISHED POLE BARN

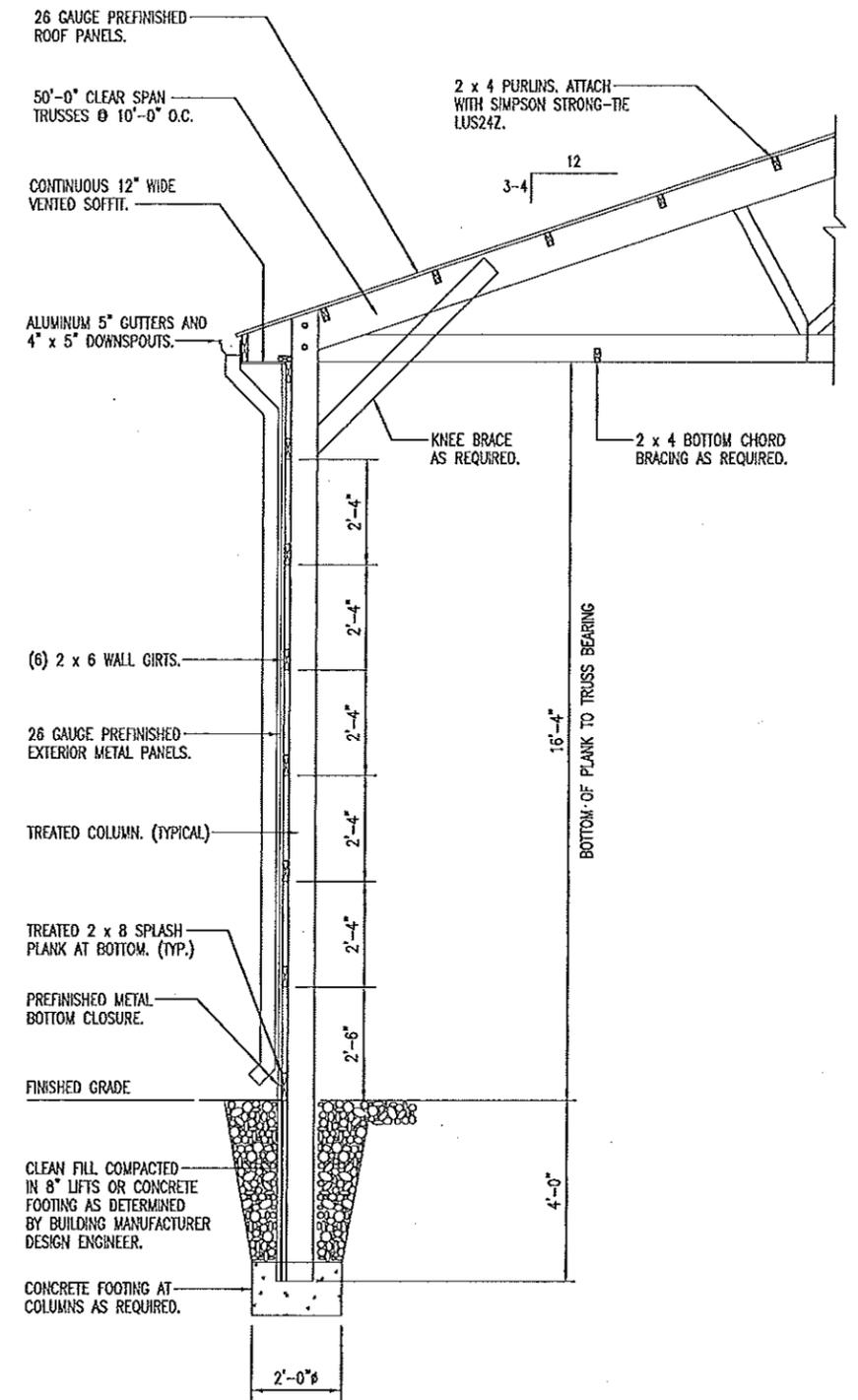
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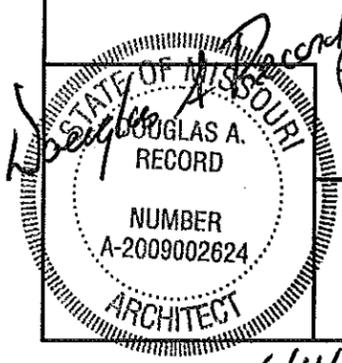
A ENDWALL SECTION
 SCALE: 1/4" = 1'-0"



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



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



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WALL SECTIONS

MISSOURI DEPARTMENT OF TRANSPORTATION
 DIVISION OF GENERAL SERVICES
 FACILITIES MANAGEMENT

3-BAY FINISHED POLE BARN

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ROOF FRAMING NOTES

1. DESIGN LOADING FOR ROOF TRUSSES SHALL MEET THE FOLLOWING CRITERIA:

ROOF LIVE LOAD	20 PSF
ROOF DEAD LOAD	4 PSF
BOTTOM CHORD DEAD LOAD	5 PSF
EARTHQUAKE	ZONE 1, LATEST EDITION IBC
WIND	90 MPH, EXPOSURE B
DEFLECTION	L/360
SPACING	AS REQUIRED.

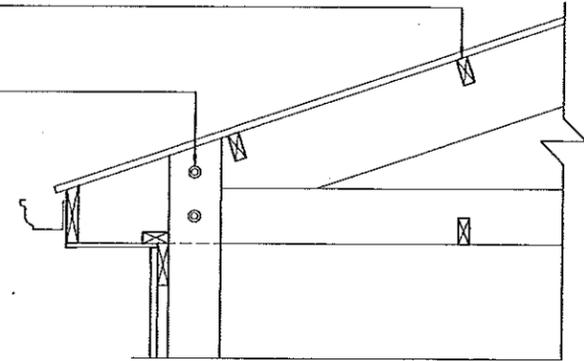
2. TRUSS DESIGN SUBMITTALS SHALL BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MISSOURI.

3. ROOF TRUSSES AND BOTTOM CHORDS 2x's SHALL BE ANCHORED TO THE TOP PLATE OF INTERIOR LOAD BEARING WALLS WITH SEISMIC AND HURRICANE ANCHORS EQUAL TO SIMPSON STRONG TIE #H1 ANCHORS AS REQUIRED.

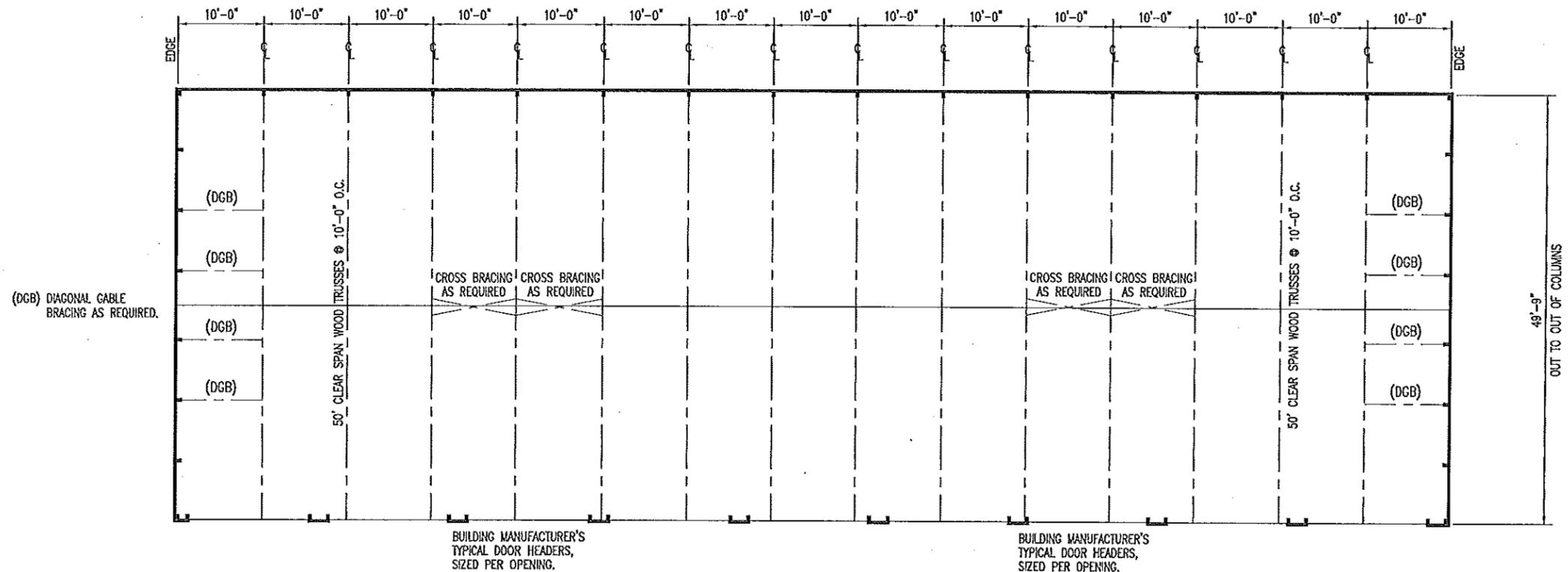
4. ROOF TRUSSES TO BE EACH CENTERED IN A POCKET WHICH IS THE DEPTH OF THE BOTTOM CHORD, MINIMUM, ON THE BACK WALL LAMINATED 2x POST(S) THAT ARE 10'-0" O.C. (TYPICAL) SEE DETAIL B-11.

2 x 4 PURLINS. ATTACH WITH SIMPSON STRONG-TIE LUS24Z. (TYPICAL)

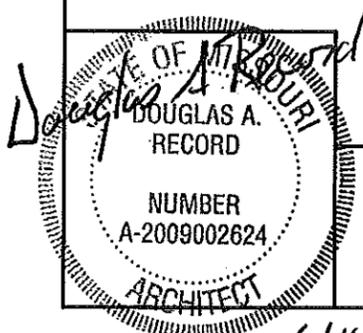
TRUSS SECURED IN COLUMN POCKET WITH (2) 1/2" x 5-1/2" H BOLTS & (8) 16d THIS NAILS. TRUSS SITS IN CENTER OF (3) LAMINATED 2 x 6's. (8) 16d THIS NAILS. TYPICAL AT BOTH ENDS OF TRUSS.



B TRUSS POCKET
SCALE: 1/2" = 1'-0"



A ROOF FRAMING PLAN
SCALE: 1/16" = 1'-0"



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ROOF FRAMING PLAN

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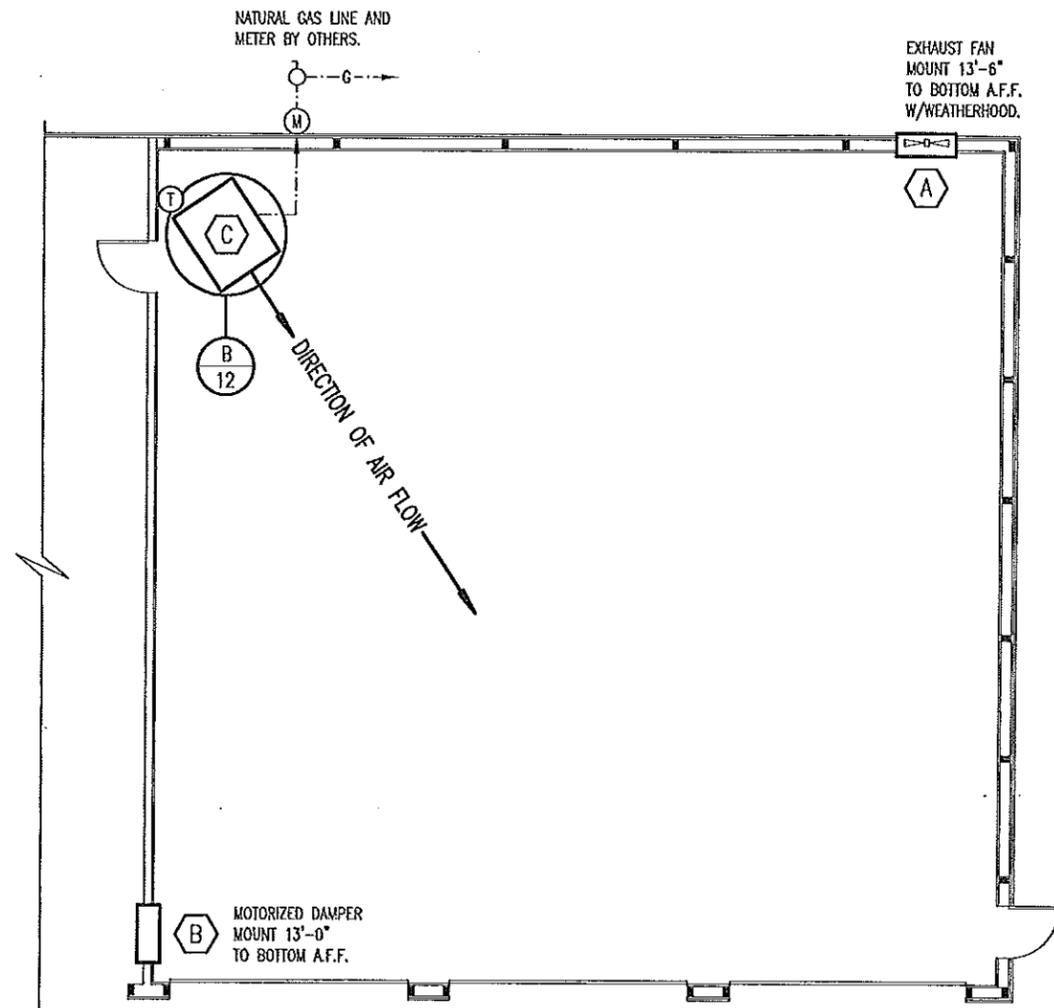
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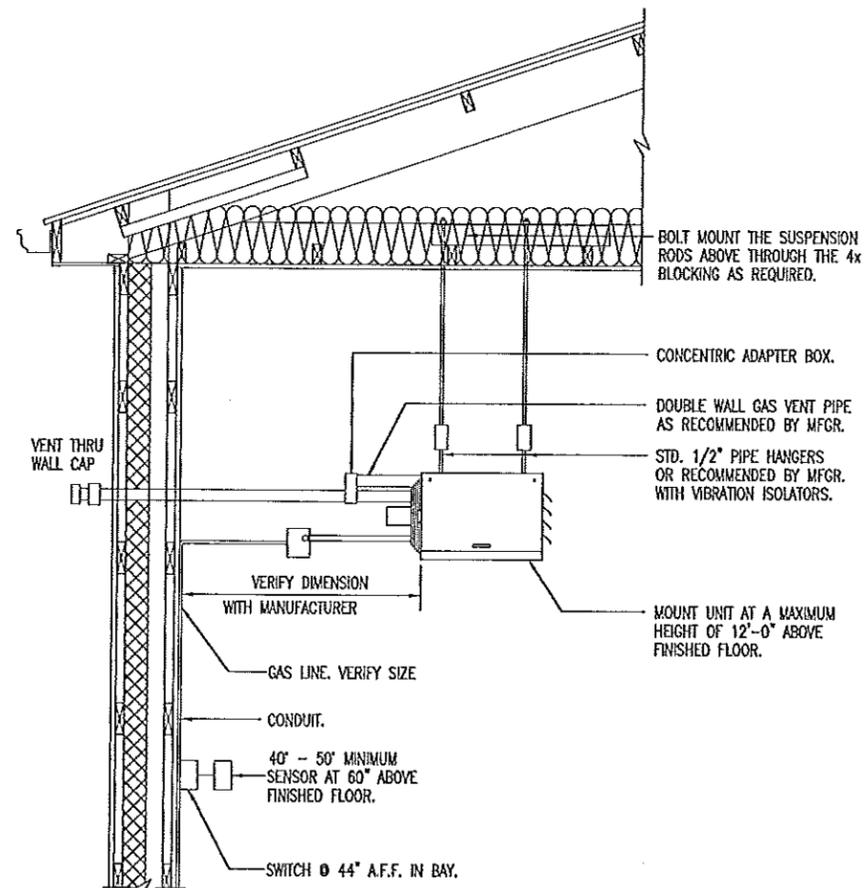
MECHANICAL NOTES

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

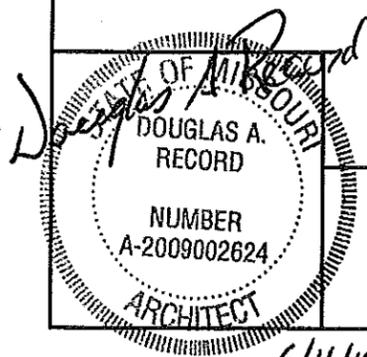
SEE HVAC SCHEDULE SHEET 5.



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



B UNIT HEATER INSTALLATION
12 NOT TO SCALE



6/11/14

MECHANICAL PLAN

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DIVISION OF GENERAL SERVICES FACILITIES MANAGEMENT

3-BAY FINISHED POLE BARN

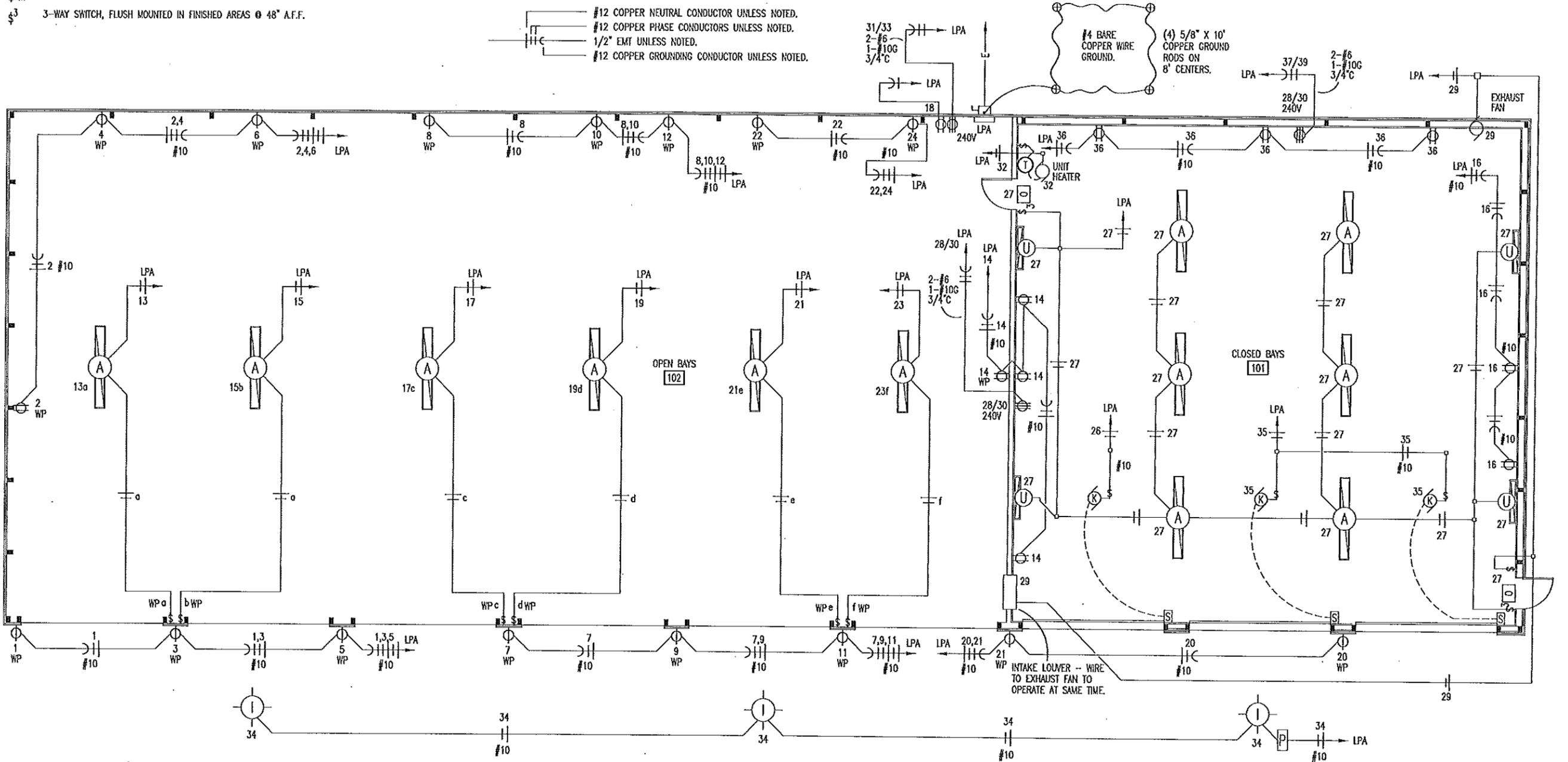
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LEGEND

- ⏏ WP SINGLE POLE SWITCH, MOUNT IN FS BOX W/ HUBBELL HBL 7420 COVER.
- ⏏ WP DUPLEX RECEPTACLE MOUNTED IN FS BOX WITH HUBBELL HBL5221 COVER.
- ⏏ WP SINGLE RECEPTACLE MOUNTED IN FS BOX WITH HUBBELL HBL7423 COVER.
- ⏏ 3-WAY SWITCH, FLUSH MOUNTED IN FINISHED AREAS @ 48" A.F.F.

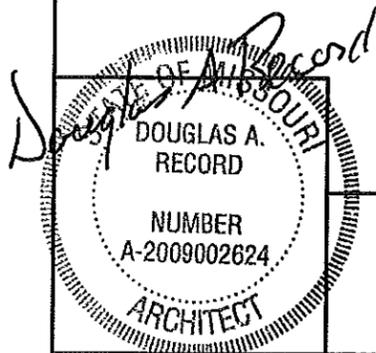
- ⏏ WELDER RECEPTACLE SURFACE MOUNTED 42" A.F.F., MOUNT IN 4" SQUARE BOX WITH RAISED COVER.
- ⏏ NO FUSED DISCONNECT SWITCH.
- ⏏ FUSED DISCONNECT SWITCH.
- ⏏ JUNCTION BOX, SIZE FOR WIRE, FILL ACCORDING TO ARTICLE 314-16 OF THE N.E.C.

— #12 COPPER NEUTRAL CONDUCTOR UNLESS NOTED.
 — #12 COPPER PHASE CONDUCTORS UNLESS NOTED.
 — 1/2" EMT UNLESS NOTED.
 — #12 COPPER GROUNDING CONDUCTOR UNLESS NOTED.



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

SEE ELECTRIC SCHEDULE SHEET 14.



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ELECTRICAL PLAN

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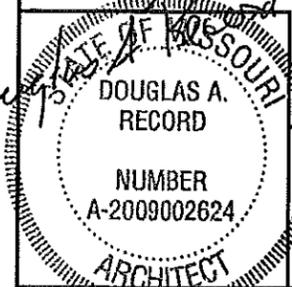
ELECTRIC SCHEDULE						
MANUF.	MODEL	#	LAMPS TYPE	W	MOUNT	REMARKS
WILLIAMS ⓐ	B1-8-454TSH-WG-EB2-UNV	4	FLOURESCENT	54	CLG	96" LONG SURFACE MOUNT FLUORESCENT LIGHT FIXTURE, W/ PAINTED STEEL HOUSING, ELECTRONIC BALLAST, & WIRE GUARD.
LITHONIA ⓑ	TWR1 LED 1 50K MVOLT	1	LED	35	WALL	RUGGED CAST ALUMINUM WITH BRONZE POWDER PAINT. ONE PIECE GASKET TO INHIBIT THE ENTRANCE OF EXTERNAL CONTAMINATES.
ⓑ	OVERHEAD DOOR OPERATOR				WALL	115V, 1-PH, TROLLEY TYPE. SEE SPECIFICATION SECTION 08720.
LITHONIA ⓐ	LHQM 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.
LITHONIA ⓐ	WC-2-28-15-A12-MVOLT-GE810PS	2	FLUORESCENT	28	WALL	48" LENGTH x 4-5/8" WIDTH x 4-9/16" DEPTH, COMMERCIAL WALL BRACKET, PROVIDES UP/DOWN DISTRIBUTION. MOUNT 7'-0" A.F.F.
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.
- ALL RECEPTACLES IN BAY 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. ELECTRIC CONTRACTOR TO VERIFY SIZES WITH EXACT EQUIPMENT ORDERED PRIOR TO PURCHASING ELECTRICAL SUPPLIES.
- FIXTURE LOCATIONS ARE APPROXIMATE, EXACT LOCATIONS TO BE DETERMINED AFTER COLLABORATION WITH THE OWNER AND OTHER TRADES.
- CONTRACTOR SHALL PROVIDE SERVICE DISCONNECTS AS REQUIRED AT EXTERIOR OF BUILDING.
- PROVIDE BLOCKING FOR ELECTRICAL DEVICES AS REQUIRED FOR A SECURE APPLICATION.
- SEE SPECIFICATION SECTION 16100 - ELECTRICAL FOR ADDITIONAL REQUIREMENTS.
- MODOT WILL INSTALL CONDUCTORS IN CONDUIT UP TO THE SERVICE DISCONNECT. ELECTRICAL CONTRACTORS WORK TO BEGIN FROM THAT POINT FOR A FUNCTIONAL SYSTEM.

SERVICE PANEL LPA									
MAN BUS: 225A MLO VOLTS: 240/120, 1PH, 3-WIRE BUS MATERIAL: COPPER MOUNTING: SURFACE			SQUARE "D" NOOD OR EQUAL W/ NEUTRAL BUS & GROUNDING BUS CIRCUIT BREAKERS BOLT-IN 10000 AIC				CONNECTED LOAD A PHASE 25698 VA B PHASE 28115 VA TOTAL 53813 VA 224 A		
CIR	SERVICE	VA	BKR		BKR	VA	SERVICE		CIR
1	EXTERIOR -- RECEPTACLE ⓐ	1000	20A1P	A	20A1P	180	RECEPTACLES	ⓐ	2
3	EXTERIOR -- RECEPTACLE ⓐ	1000	20A1P	B	20A1P	1000	RECEPTACLES	ⓐ	4
5	EXTERIOR -- RECEPTACLE ⓐ	1000	20A1P	A	20A1P	1000	RECEPTACLES	ⓐ	6
7	EXTERIOR -- RECEPTACLE ⓐ	1000	20A1P	B	20A1P	1000	RECEPTACLES	ⓐ	8
9	EXTERIOR -- RECEPTACLE ⓐ	1000	20A1P	A	20A1P	1000	RECEPTACLES	ⓐ	10
11	EXTERIOR -- RECEPTACLE ⓐ	1000	20A1P	B	20A1P	1000	RECEPTACLES	ⓐ	12
13	LIGHTS	432	20A1P	A	20A1P	720	RECEPTACLES	ⓐ	14
15	LIGHTS	432	20A1P	B	20A1P	540	RECEPTACLES		16
17	LIGHTS	432	20A1P	A	20A1P	483	COMPRESSOR DRYER		18
19	LIGHTS	432	20A1P	B	20A1P	1000	EXTERIOR -- RECEPTACLE ⓐ		20
21	EXTERIOR -- RECEPTACLE ⓐ	1000	20A1P	A	20A1P	1000	RECEPTACLES	ⓐ	22
23	LIGHTS	432	20A1P	B	20A1P	1000	RECEPTACLES	ⓐ	24
25	LIGHTS	432	20A1P	A	20A1P	1081	GARAGE DOOR OPENER		26
27	LIGHTS	1521	20A1P	B	50A2P	4500	101 - WELDER		28
29	EXHAUST FAN & LOUVER	813	20A1P	A		4500			30
31	102 - AIR COMPRESSOR	4600	50A2P	B	15A1P	456	UNIT HEATER		32
33		4600		A	20A1P	525	EXTERIOR LIGHTS		34
35	GARAGE DOOR OPENERS	2162	30A1P	B	20A1P	540	RECEPTACLES		36
37	101-WELDER	4500	50A2P	A					38
39		4500		B					40
41				A					42

ⓐ CIRCUIT BREAKER SHALL BE GFI RATED



6/11/14

ELECTRICAL PANEL

MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

3-BAY FINISHED POLE BARN

DRAWN BY: LARRY CARVER
CHECKED BY: DOUG RECORD
DATE: 6-11-14
Sheet
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