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# MISSOURI DEPARTMENT OF TRANSPORTATION

Shelbina Truck Wash Building

Route 36, 0.4 Miles West of Route 15  
Shelby County

Mexico Truck Wash Building

Route JJ, 0.5 Miles South of Route 54  
Audrain County

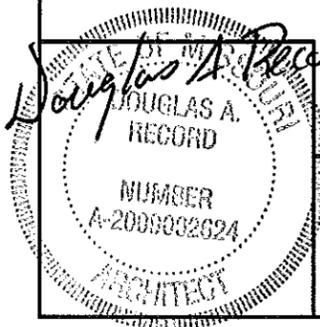
NORTHEAST DISTRICT

CODE REQUIREMENTS

BUILDING CODE - CURRENT IBC

MECHANICAL CODE - CURRENT IBC

ELECTRICAL CODE - CURRENT N.E.C.

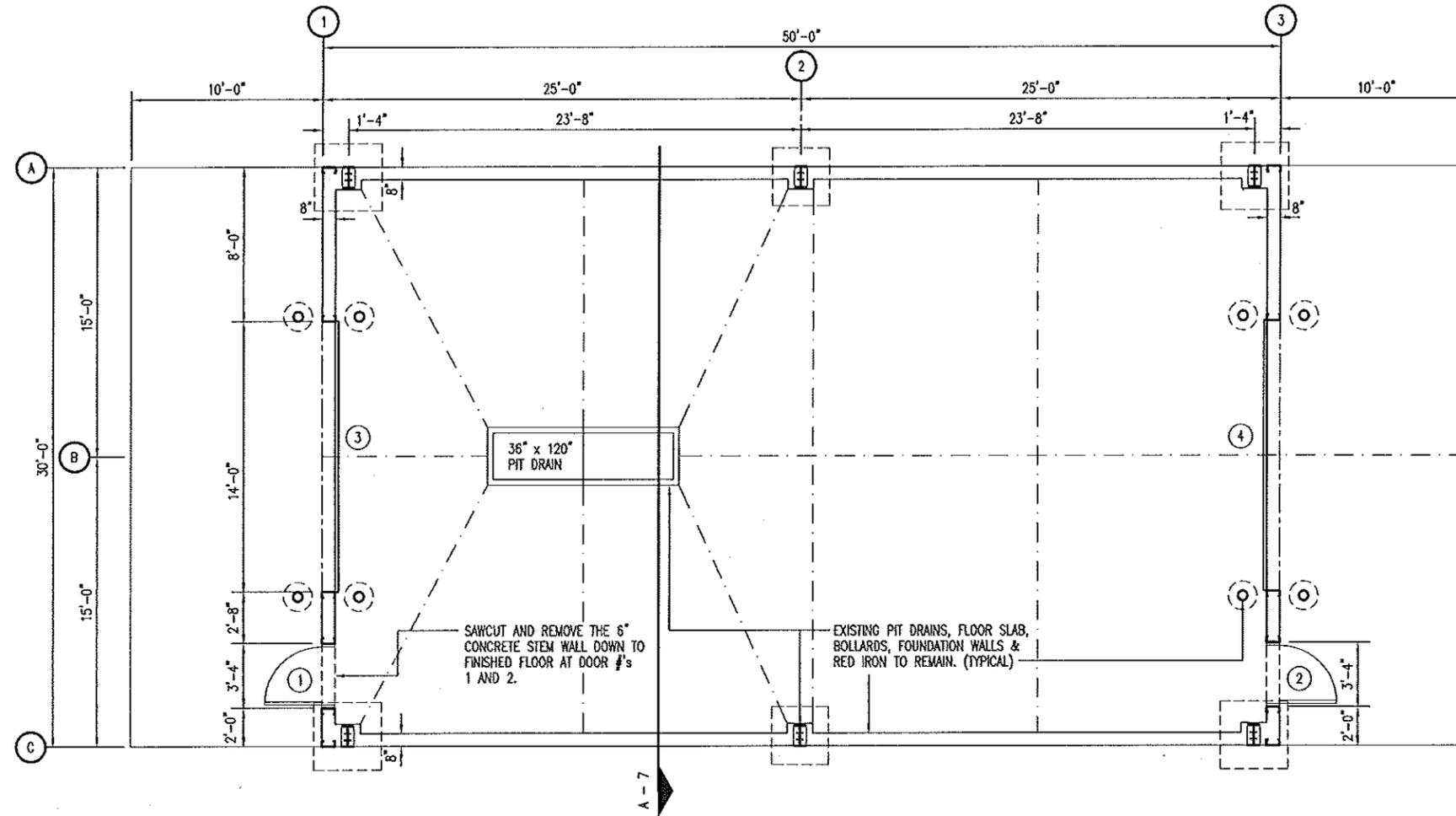


COVER SHEET

MISSOURI DEPARTMENT  
OF TRANSPORTATION  
DIVISION OF GENERAL SERVICES  
FACILITIES MANAGEMENT

SHELBINA AND MEXICO  
Truck Washes  
NORTHEAST DISTRICT

DRAWN BY: LARRY CARVER  
CHECKED BY: DOUG RECORD  
DATE: 9-24-12  
Sheet  
1 of 11



**A** SHELBINA FLOOR PLAN  
**2** SCALE: 1/8" = 1'-0"



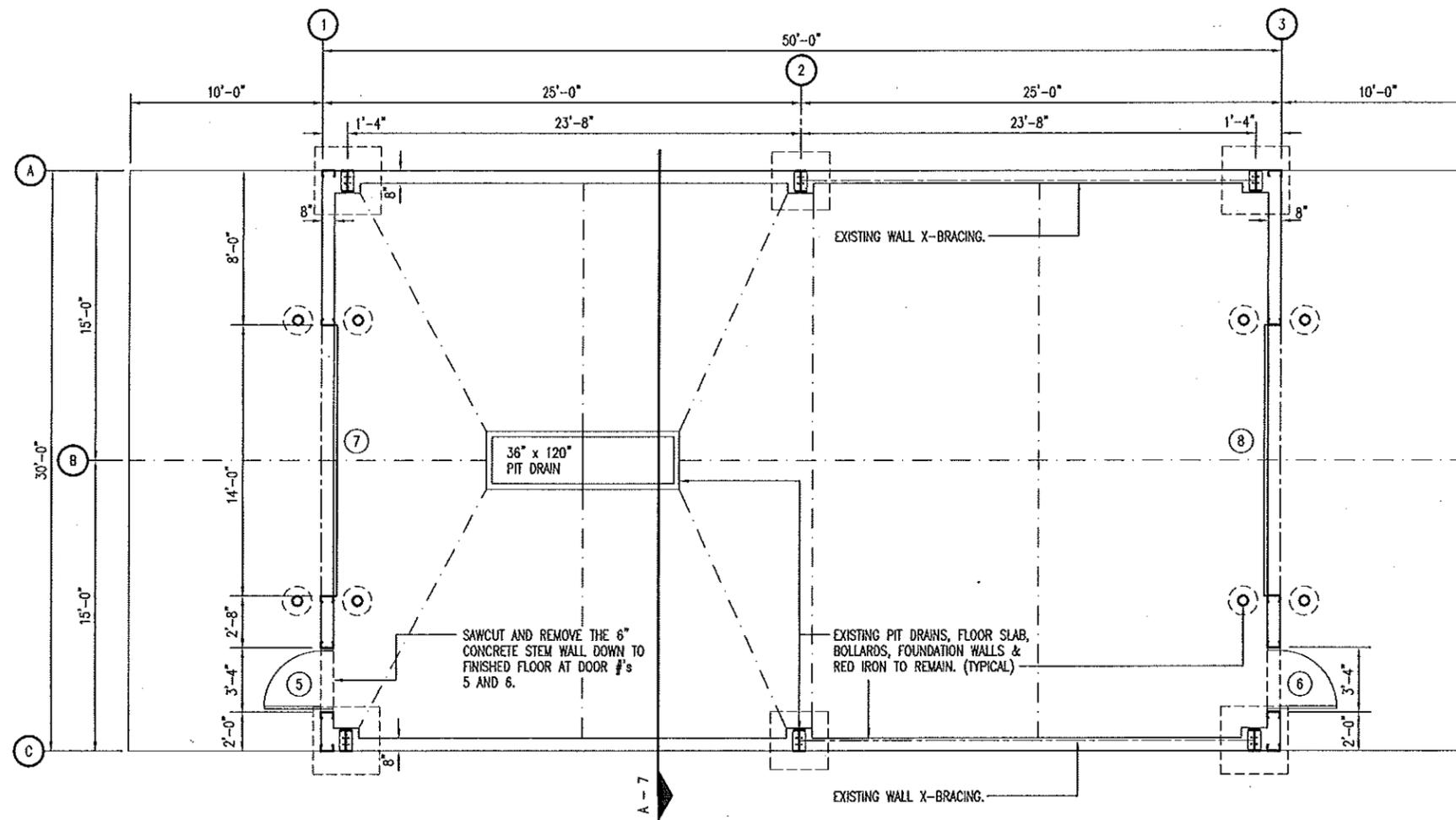
*Record*  
 DOUGLAS A. RECORD  
 NUMBER A-2009032624  
 ARCHITECT  
 10/3/12

SHELBINA FLOOR PLAN

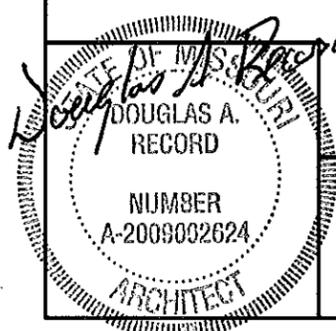
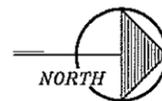
MISSOURI DEPARTMENT OF TRANSPORTATION  
 DIVISION OF GENERAL SERVICES  
 FACILITIES MANAGEMENT

SHELBINA AND MEXICO  
 Truck Washes  
 NORTHEAST DISTRICT

DRAWN BY: LARRY CARVER  
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 DATE: 9-10-12  
 Sheet  
 2 of 11



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



10/3/12

# MEXICO FLOOR PLAN

MISSOURI DEPARTMENT  
OF TRANSPORTATION  
DIVISION OF GENERAL SERVICES  
FACILITIES MANAGEMENT

SHELBYNA AND MEXICO  
Truck Washes  
NORTHEAST DISTRICT

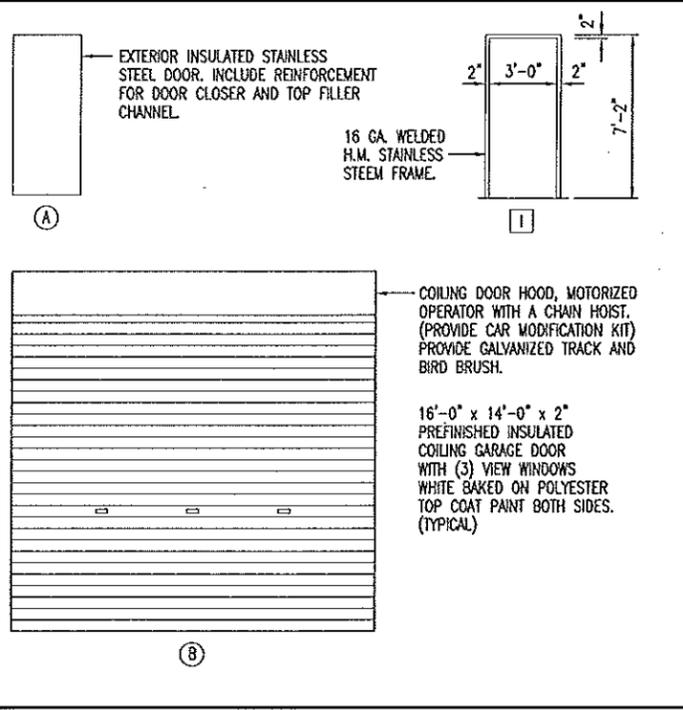
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Sheet

3 of 11

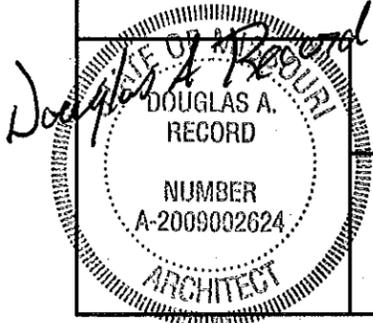
**DOOR SCHEDULE**

NO.	SIZE	SWING	DR. TYPE	FRM. TYPE	DETAIL	FRM. DEPTH	HDWR. GRP.
1	3'-0" x 7'-0" x 1-3/4"	RHR	A	I	B-8	8"	1
2	3'-0" x 7'-0" x 1-3/4"	LHR	A	I	B-8	8"	1
3	14'-0" x 14'-0" x 2"	--	B	--	--	--	--
4	14'-0" x 14'-0" x 2"	--	B	--	--	--	--
5	3'-0" x 7'-0" x 1-3/4"	RHR	A	I	B-8	8"	1
6	3'-0" x 7'-0" x 1-3/4"	LHR	A	I	B-8	8"	1
7	14'-0" x 14'-0" x 2"	--	B	--	--	--	--
8	14'-0" x 14'-0" x 2"	--	B	--	--	--	--



**HVAC SCHEDULE**

SYM.	UNIT	MANUFACTURER	BTU OUTPUT	FUEL	VOLTAGE	REMARKS
A	GAS FIRED UNIT HEATER	REZNOR MODEL UDAS 100 OR EQUAL	105,000	NATURAL GAS	115	409 STAINLESS STEEL HEAT EXCHANGERS, TOTALLY ENCLOSED FAN MOTOR, HORIZONTAL COMBUSTION AIR/VENT KIT INCLUDING CONCENTRIC ADAPTER.
B	16" DIA. CORROSION RESISTANT SHUTTER FAN	DAYTON 1BLJ1 OSHA GUARD OR EQUAL	2,005 CFM	ELECTRIC	115	FIBERGLASS SHUTTER & BLADES. 2.1 AMPS. PROVIDE 16" x 16" x 9-1/4" STAINLESS STEEL WALL SLEEVE THAT HAS MITERED INSIDE CORNERS. (VERIFY WALL SLEEVE SIZE)
C	MOTORIZED DAMPER WITH WEATHERHOOD	DAYTON MODEL 4C560 OR EQUAL 60 HERTZ	--	ELECTRIC	115	16" CENTER-PIVOTING, MOTORIZED, GALV. STEEL DAMPER. WIRE TO OPEN WHEN THE EXHAUST FAN IS TURNED ON. HOOD EQUAL TO NATIONAL FAN CO. Ph: 1-877-389-3131 16" GALVANIZED WEATHER HOOD. MODEL# NFC-GH-XF16. PROVIDE 16" x 16" x 9-1/4" STAINLESS STEEL WALL SLEEVE THAT HAS MITERED INSIDE CORNERS. (VERIFY WALL SLEEVE SIZE)
T	THERMOSTAT	AS REQUIRED.	--	--	--	AS RECOMMENDED BY THE GAS FIRED UNIT HEATER MANUFACTURER.



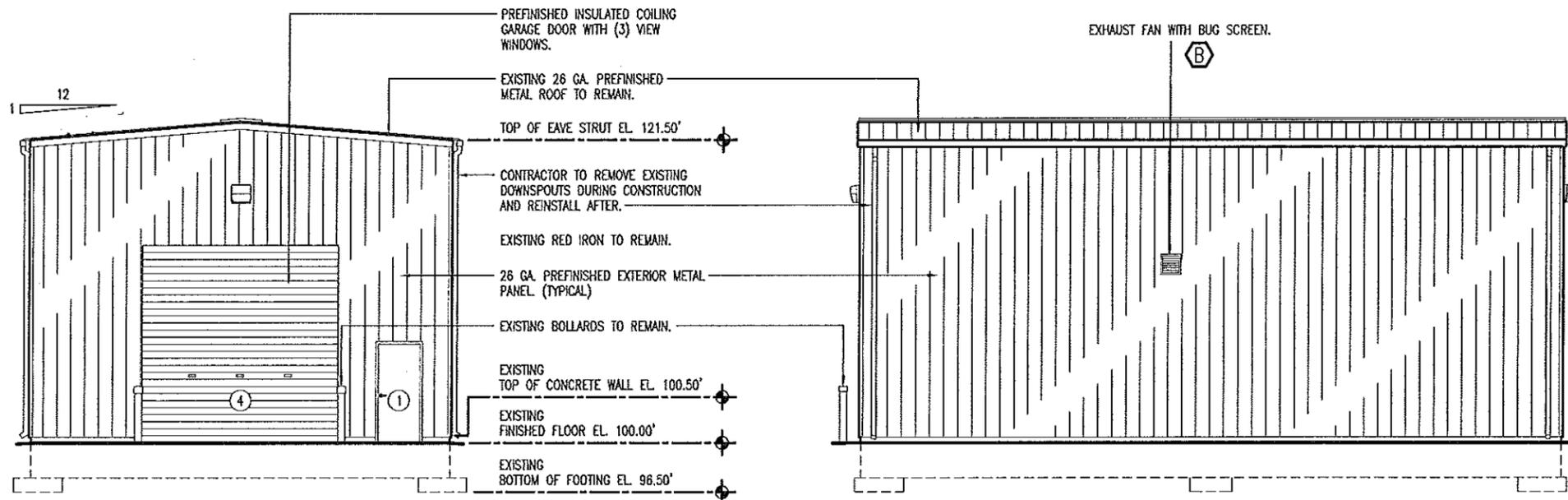
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**SCHEDULES**

MISSOURI DEPARTMENT OF TRANSPORTATION  
DIVISION OF GENERAL SERVICES FACILITIES MANAGEMENT

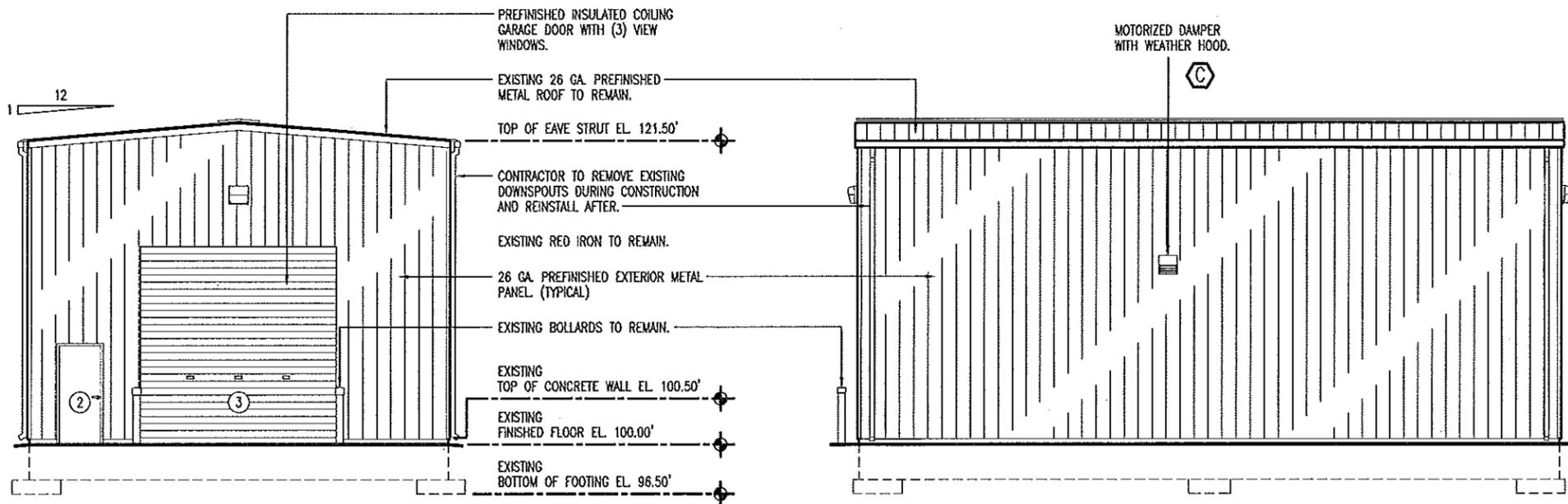
SHELBYNA AND MEXICO Truck Washes NORTHEAST DISTRICT

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DATE: 9-24-12  
Sheet  
4 of 11



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

SHELBINA  
**D SOUTH ELEVATION**  
 5 SCALE: 3/32" = 1'-0"



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

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

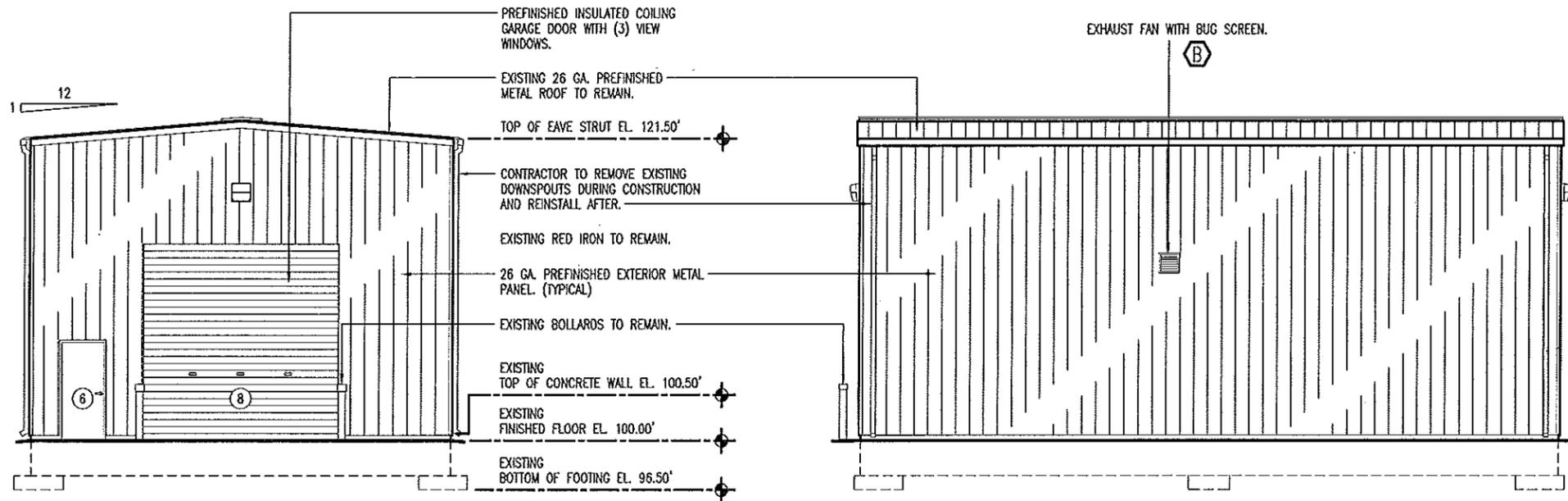
DOUGLAS A. RECORD  
 ARCHITECT  
 NUMBER A-2009002624  
 10/3/12

# SHELBINA ELEVATIONS

MISSOURI DEPARTMENT  
 OF TRANSPORTATION  
 DIVISION OF GENERAL SERVICES  
 FACILITIES MANAGEMENT

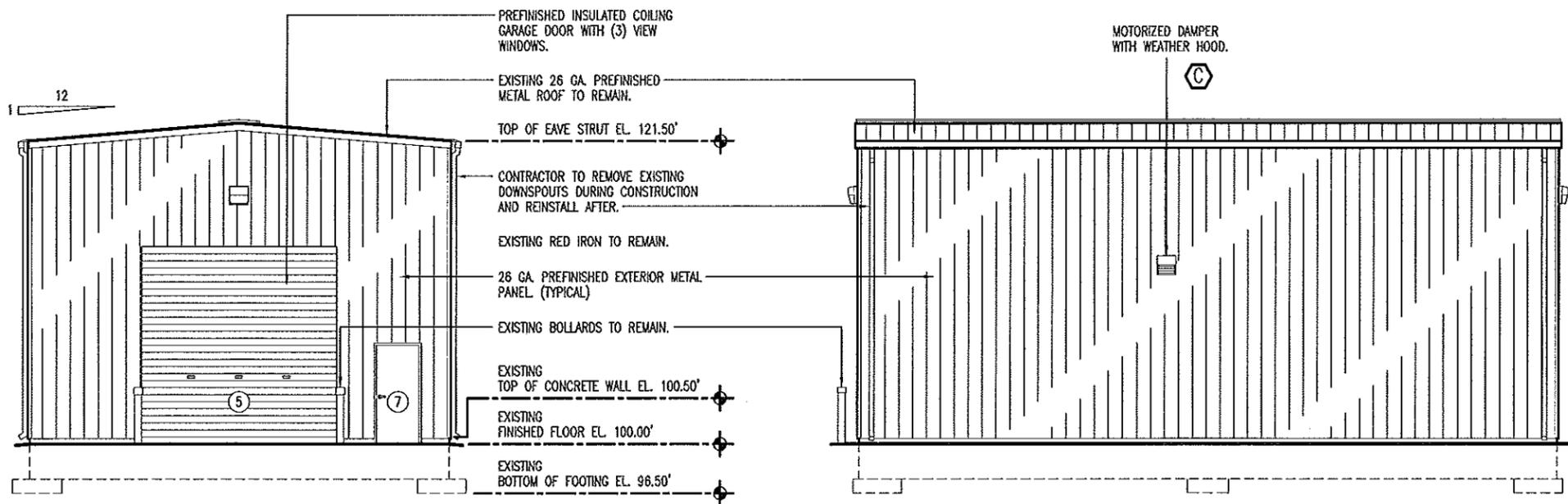
SHELBINA AND MEXICO  
 Truck Washes  
 NORTHEAST DISTRICT

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 DATE: 9-24-12  
 Sheet  
 5 of 11



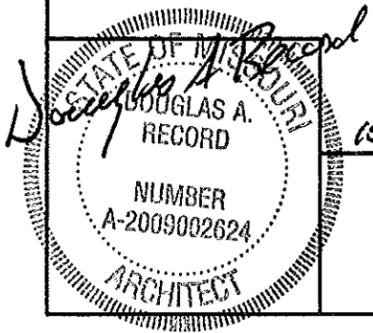
MEXICO  
**C** NORTH ELEVATION  
 6 SCALE: 3/32" = 1'-0"

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



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

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

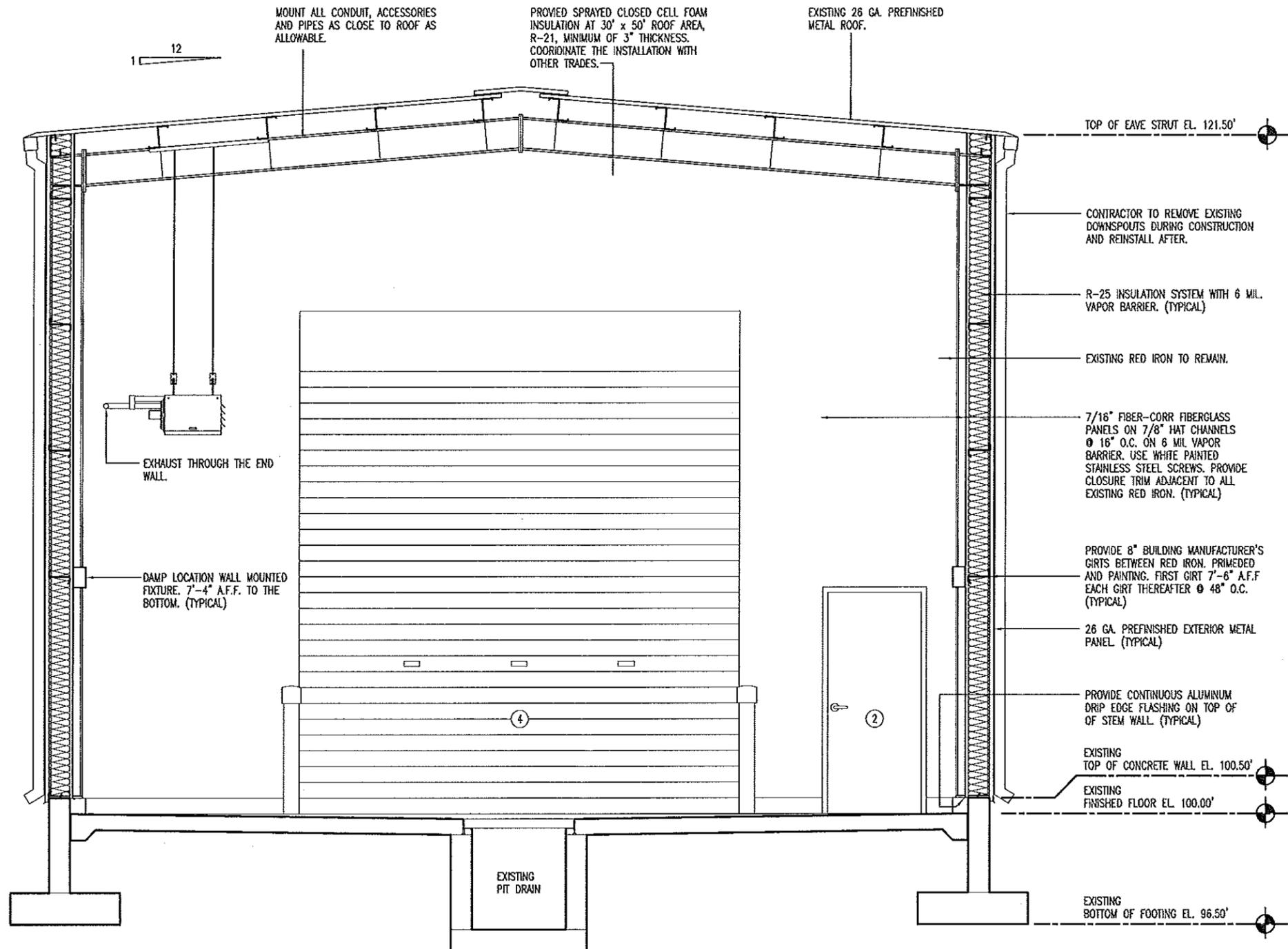


# MEXICO ELEVATIONS

MISSOURI DEPARTMENT  
 OF TRANSPORTATION  
 DIVISION OF GENERAL SERVICES  
 FACILITIES MANAGEMENT

SHELBYNA AND MEXICO  
 Truck Washes  
 NORTHEAST DISTRICT

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Sheet
6 of 11



**A**  
**7** BUILDING SECTION  
SCALE: 1/4" = 1'-0"

**CONTRACTOR NOTE:**  
REMOVE AND REPLACE EXISTING CROSS BRACING BETWEEN CONUMNS DURING PLACEMENT OF WALL GIRTS. (TYPICAL)

*Approved*  
DOUGLAS A. RECORD  
NUMBER  
A-2009002624  
ARCHITECT

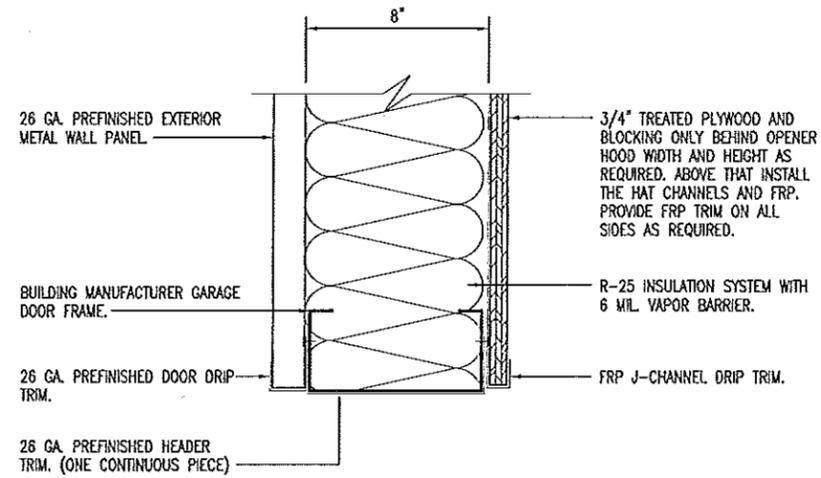
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**BUILDING SECTION**

MISSOURI DEPARTMENT  
OF TRANSPORTATION  
DIVISION OF GENERAL SERVICES  
FACILITIES MANAGEMENT

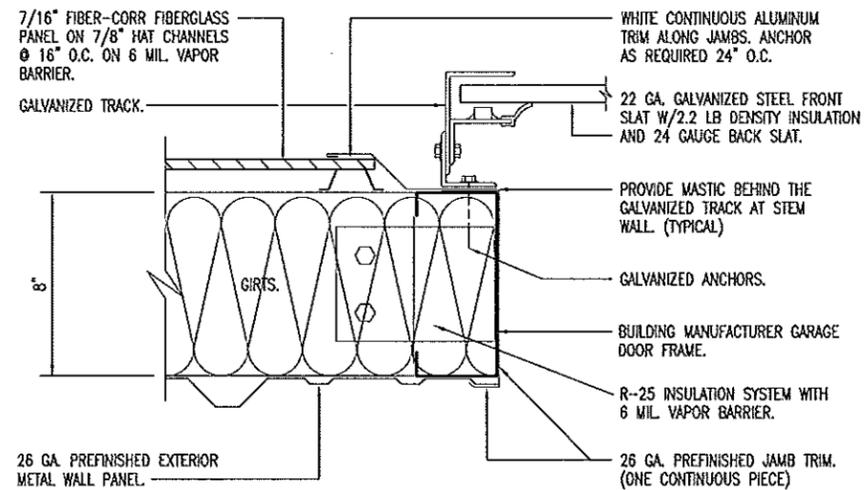
SHELBYNA AND MEXICO  
Truck Washes  
NORTHEAST DISTRICT

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Sheet  
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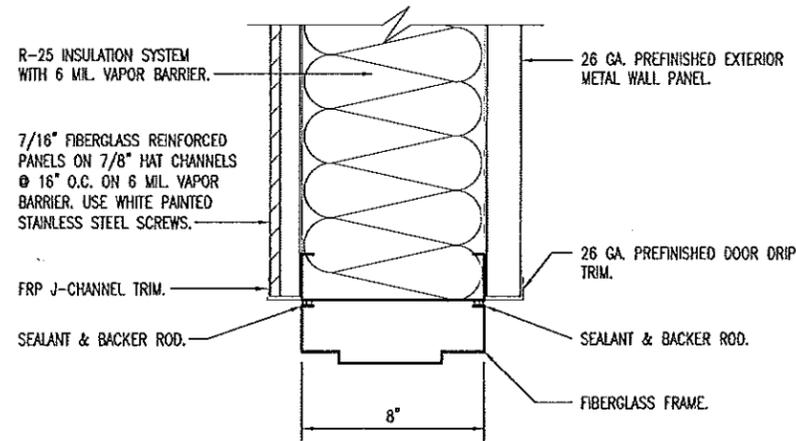
**GARAGE DOOR HEAD**

SCALE: 1-1/2" = 1'-0"



**A GARAGE DOOR JAMB**

SCALE: 1-1/2" = 1'-0"



**B DOOR HEAD/JAMB**

SCALE: 1-1/2" = 1'-0"

STATE OF MISSOURI  
*Douglas A. Record*  
 DOUGLAS A. RECORD  
 NUMBER A-2009002624  
 ARCHITECT  
 10/3/12

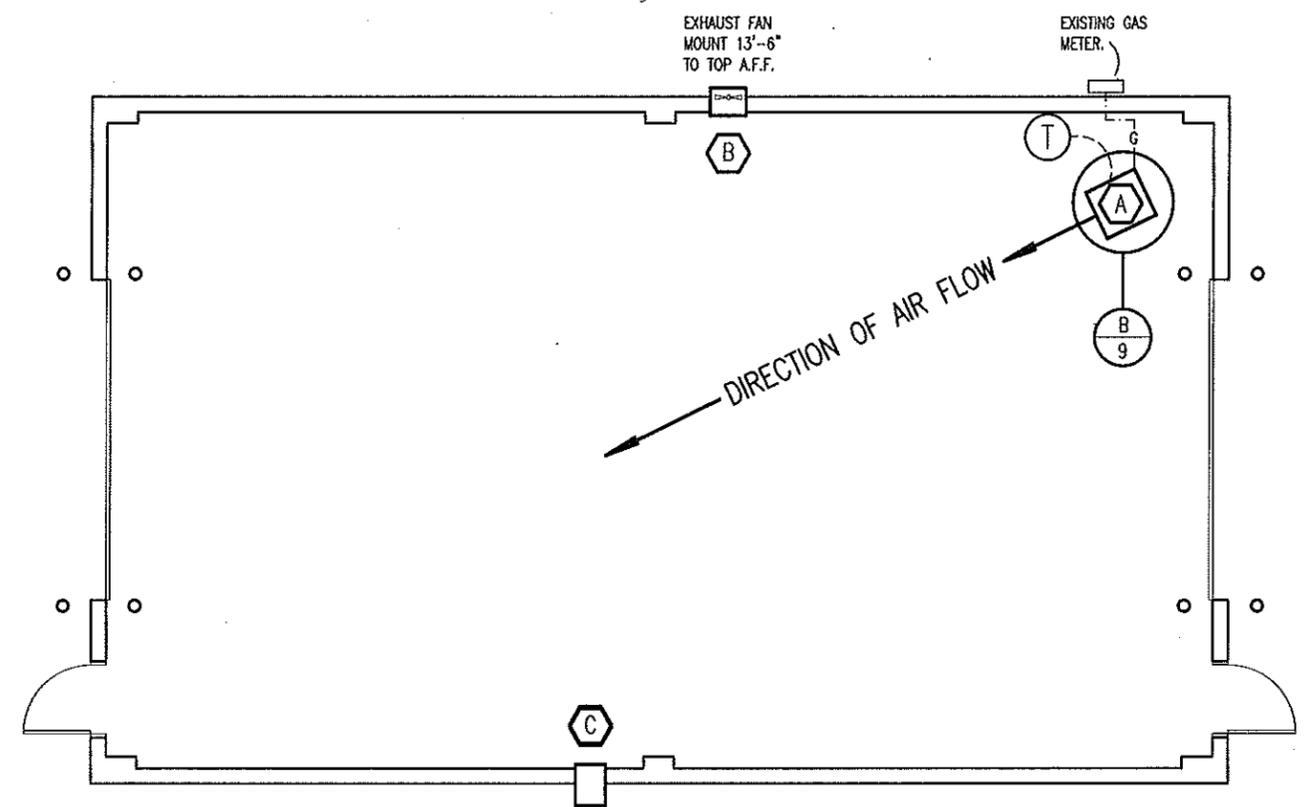
**JAMB DETAILS**

MISSOURI DEPARTMENT  
 OF TRANSPORTATION  
 DIVISION OF GENERAL SERVICES  
 FACILITIES MANAGEMENT

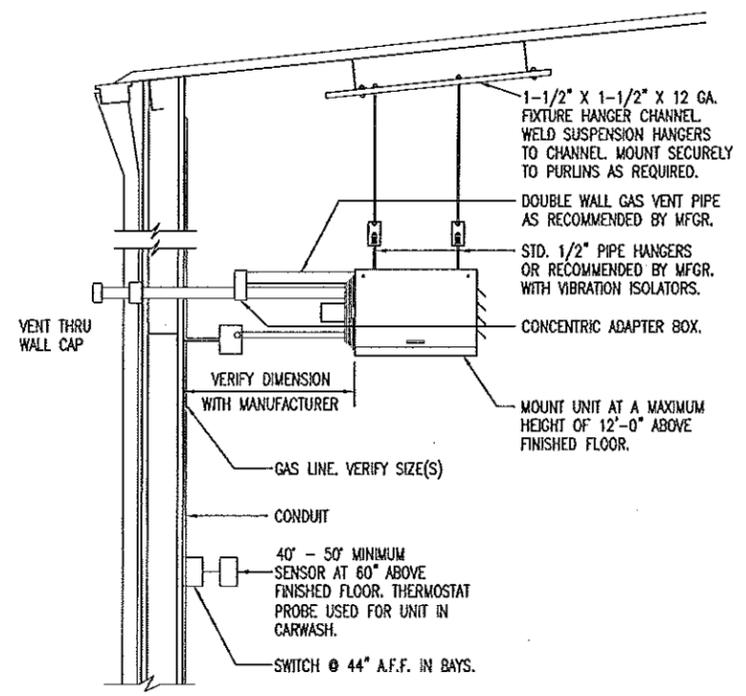
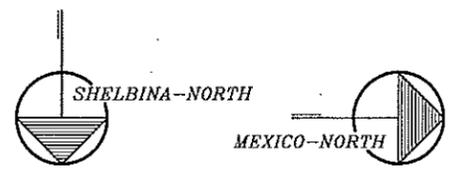
SHELBYNA AND MEXICO  
 Truck Washes  
 NORTHEAST DISTRICT

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 Sheet  
 8 of 11

SEE HVAC SCHEDULE SHEET 4.



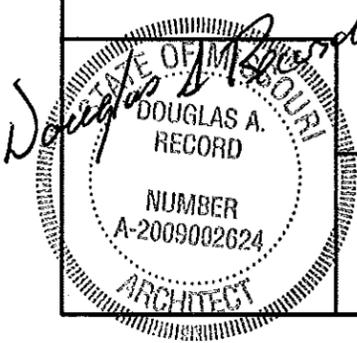
**A**  
**9** MECHANICAL PLAN  
SCALE: 1/8" = 1'-0"



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

**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. CONTRACTOR WORK WILL BEGIN FROM EXISTING GAS METER WITH GAS LINE TO UNIT HEATER. SIZE AS REQUIRED FOR A FUNCTIONAL SYSTEM.



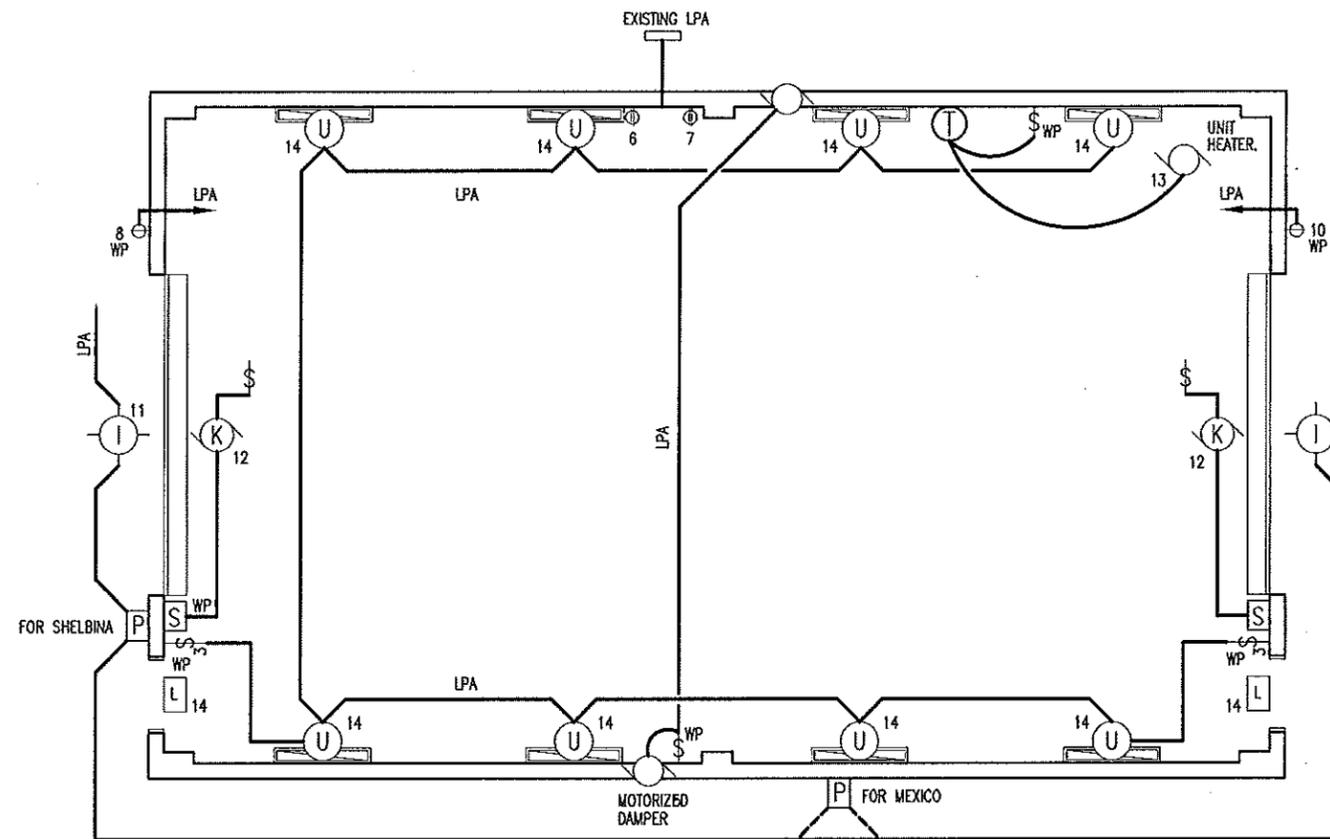
10/31/12

**MECHANICAL PLAN**

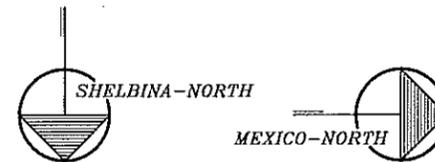
MISSOURI DEPARTMENT  
OF TRANSPORTATION  
DIVISION OF GENERAL SERVICES  
FACILITIES MANAGEMENT

SHELBINA AND MEXICO  
Truck Washes  
NORTHEAST DISTRICT

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9 of 11



A  
10  
ELECTRICAL PLAN  
SCALE: 1/8" = 1'-0"



*Approved*  
 MISSOURI  
 DOUGLAS A. RECORD  
 NUMBER  
 A-2009002624  
 ARCHITECT

10/3/12

ELECTRICAL PLAN

MISSOURI DEPARTMENT  
 OF TRANSPORTATION  
 DIVISION OF GENERAL SERVICES  
 FACILITIES MANAGEMENT

SHELBINA AND MEXICO  
 Truck Washes  
 NORTHEAST DISTRICT

DRAWN BY: LARRY CARVER  
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SHELBYNA EXISTING SERVICE PANEL LPA								
125 AMPS MAX. VOLTS: 240/120, 1PH, 3-WIRE								
CIR	SERVICE	VA	BKR	CIR	BKR	VA	SERVICE	CIR
1	100A SERVICE DISCONNECT ***	--	100A2P	A	50A2P	--	50A DISCONNECT *	2
3				B				4
5	EXHAUST FAN AND DAMPER	1221	20A1P	A	20A1P	--	OUTLET	6
7	OUTLET ****	--	20A1P	B	20A1P	1000	TRUCK PLUGS	8
9	SPACE	--	--	A	20A1P	1000	TRUCK PLUGS	10
11	EXTERIOR LIGHTS	434	20A1P	B	30A1P	2162	OHD OPENERS	12
13	UNIT HEATER	276	20A1P	A	20A1P	1296	LIGHTS	14
15	SPACE			B			SPACE	16

\* EXISTING BREAKER TO REMAIN.

\*\*\* PROVIDE NEW 100 AMP BREAKER.

\*\*\*\* RELOCATE OUTLET TO SPACE 7 FROM SPACE 5.

ALL OTHER CIRCUITS TO HAVE NEW BREAKERS, CONDUCTORS AND CONDUIT UNLESS INDICATED OTHERWISE.

MEXICO EXISTING SERVICE PANEL LPA								
125 AMPS MAX. VOLTS: 240/120, 1PH, 3-WIRE								
CIR	SERVICE	VA	BKR	CIR	BKR	VA	SERVICE	CIR
1	100A SERVICE DISCONNECT *	--	100A2P	A	50A2P	--	50A DISCONNECT *	2
3				B				4
5	EXHAUST FAN AND DAMPER	1221	20A1P	A	20A1P	--	OUTLET (*)	6
7	OUTLET (*)	--	20A1P	B	20A1P	1000	TRUCK PLUGS **	8
9	STORAGE BUILDING *	--	20A1P	A	20A1P	1000	TRUCK PLUGS **	10
11	EXTERIOR LIGHTS	434	20A1P	B	30A1P	2162	OHD OPENERS	12
13	UNIT HEATER	276	20A1P	A	20A1P	1296	LIGHTS	14
15	SPACE			B			SPACE	16

(\*) RELOCATE OUTLET INSIDE BUILDING WITH CONDUIT AND CONDUCTORS AS REQUIRED.

\* EXISTING BREAKER TO REMAIN.

\*\* RELOCATED SEE PLANS. PROVIDE NEW CONDUCTORS AND CONDUIT.

ALL OTHER CIRCUITS TO HAVE NEW BREAKERS, CONDUCTORS AND CONDUIT UNLESS INDICATED OTHERWISE.

ELECTRIC SCHEDULE						
MANUF.	MODEL	#	LAMPS TYPE	W	WNT	REMARKS
LITHONIA 	VRI-2-5475HO_MVOLT GEB10PS90	2	FLUORESCENT	54	CLG	7-5/8" x 50" DAMP LOCATION, FIBERGLASS HOUSING, CLEAR HIGH-IMPACT ACRYLIC LENS AND COLD WEATHER ELECTRONIC BALLAST.
WILLIAMS 	PGM-175H-128-2	1	METAL HALIDE	175	WALL	EXTERIOR, SURFACE MOUNT LIGHT FIXTURE, WITH ALUMINUM HOUSING, & IMPACT RESISTANT ONE-PIECE, WRAPAROUND LENS.
	OVERHEAD DOOR OPERATOR				WALL	115V, 1-PH, HOOD MOUNT TYPE COMMERCIAL IN CARWASH & TROLLEY TYPE IN MAINTENANCE. SEE SPECIFICATION SECTION 08720.
HUBBELL 	SERIES PRB				CLG	PATHFINDER SERIES EXIT LIGHT WITH WHITE THERMOPLASTIC HOUSING & UNIVERSAL MOUNT.
	OVERHEAD DOOR CONTROL				WALL	THREE BUTTON OVERHEAD DOOR CONTROL AS SUPPLIED BY OVERHEAD DOOR MANUF. SEE SPECIFICATION SECTION 08720.
TORK 	2001				WALL	120V PHOTO ELECTRIC CONTROL OF EXTERIOR LIGHTS.

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

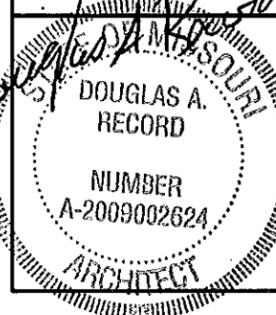
### LEGEND

§ WP SINGLE POLE SWITCH, MOUNT 48" A.F.F. IN FS BOX WITH HUBBELL HBL 7420 COVER.

⊕ WP EXISTING DOUBLE RECEPTACLE RELOCATED MOUNTED 36 A.F.F.

### ELECTRICAL NOTES:

- DRAWINGS AND DIAGRAMS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FOR THE DIMENSIONS.
- ELECTRICAL WORK SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (N.E.C.)
- PROVIDE ELECTRICAL EQUIPMENT AND ACCESSORIES REQUIRED FOR A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM REQUIRED BY MANUFACTURER'S INSTRUCTIONS AND DIRECTIONS FOR SYSTEMS SPECIFIED.
- SWITCHES AND RECEPTACLES SHALL BE EQUAL TO THE AMPERE SHOWN IN THE PANEL SCHEDULE. RECEPTACLES SHALL BE GROUND FAULT INTERRUPTION WHERE SHOWN OR AS REQUIRED BY CODE.
- SEE HVAC SCHEDULE FOR EQUIPMENT SYMBOLS AND EQUIPMENT TO BE HARD WIRED.
- CONTRACTOR SHALL PROVIDE SERVICE DISCONNECTS AS REQUIRED ON EXTERIOR OF NEW BUILDING.
- PROVIDE BLOCKING FOR ELECTRICAL DEVICES AS REQUIRED FOR A SECURE APPLICATION.
- SEE SPECIFICATION SECTION 16100 - ELECTRICAL FOR ADDITIONAL REQUIREMENTS.
- COORDINATE WORK WITH OTHER TRADES PRIOR TO COMMENCING WITH ELECTRICAL WORK.
- CONDUCTOR AND BREAKER SIZE MAY VARY PER MANUFACTURER SHOWN ON THE EQUIPMENT SPECIFIED. ELECTRICAL CONTRACTOR TO VERIFY SIZES WITH EXACT EQUIPMENT ORDERED PRIOR TO PURCHASING ELECTRICAL SUPPLIES.
- ALL EXPOSED CONDUIT, BOXES, CONNECTORS, ETC. IN THE WASH BAY TO BE IN SCHEDULE 40 PVC. CONTRACTOR TO VERIFY THE DIAMETERS OF CONDUIT AS REQUIRED.
- GROUP CIRCUITS IN CONDUIT WHERE FEASIBLE AS REQUIRED.
- PROVIDE CONDUIT, CONDUCTORS, BOXES, CONNECTORS, ETC. FROM THE EXISTING EXTERIOR POLE MOUNTED LPA TO TRUCK WASHES AS REQUIRED FOR A FUNCTIONAL SYSTEM.



10/3/12

## Electrical Panels & Schedules

MISSOURI DEPARTMENT  
OF TRANSPORTATION  
DIVISION OF GENERAL SERVICES  
FACILITIES MANAGEMENT

SHELBYNA AND MEXICO  
Truck Washes  
NORTHEAST DISTRICT

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