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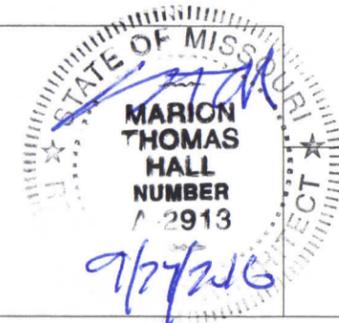
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MISSOURI DEPARTMENT
OF TRANSPORTATION

FULTON WASH BAY ENCLOSURE
4975 COUNTY RD 304
FULTON MO.
65251

CODE REQUIREMENTS

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



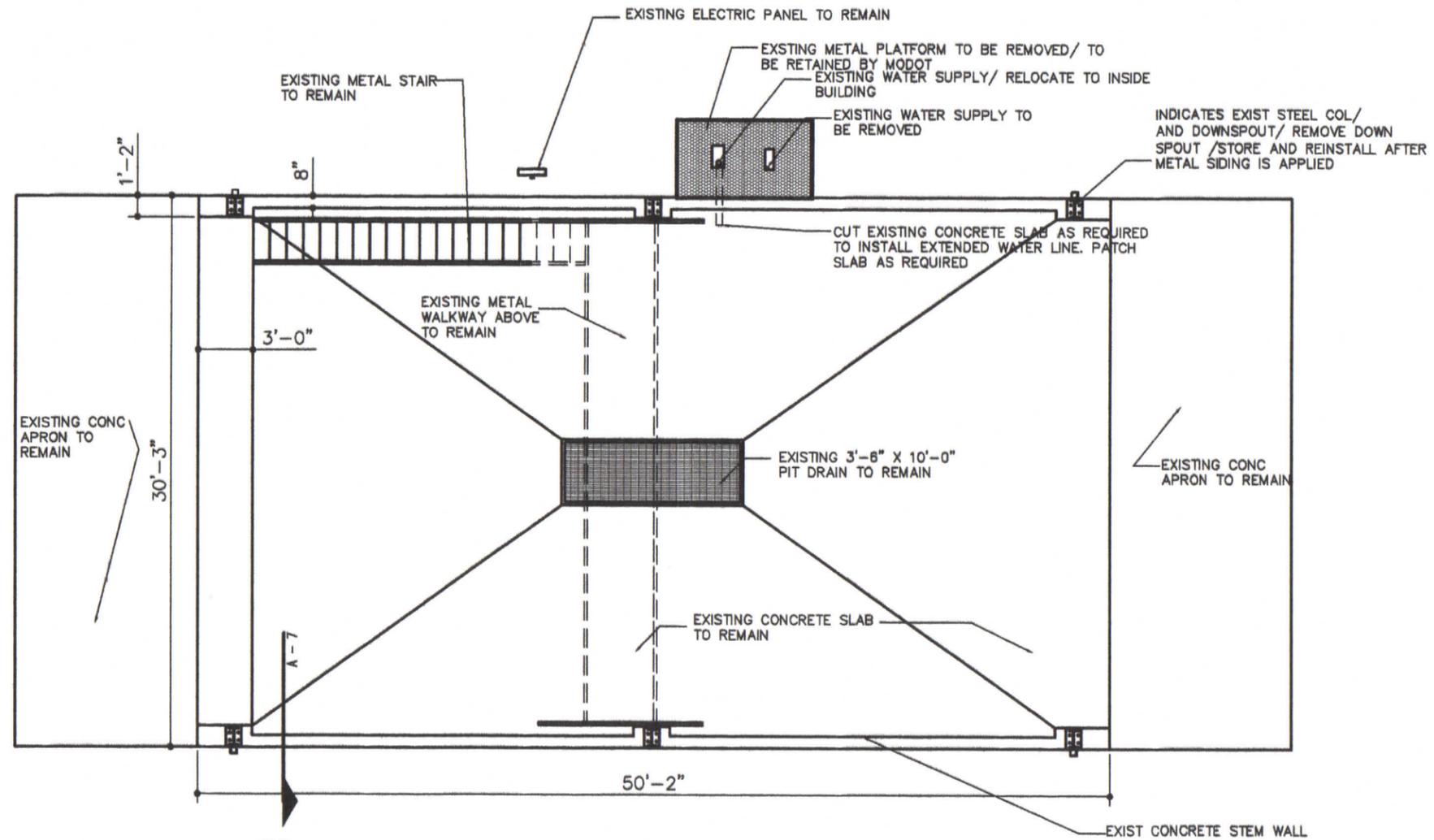
COVER SHEET

MISSOURI DEPARTMENT
OF TRANSPORTATION

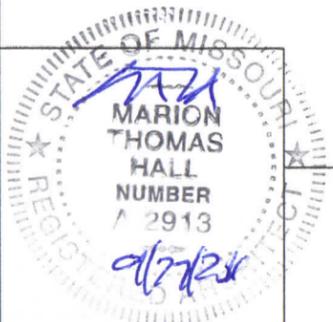
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

FULTON WASH BAY ENCLOSURE
4975 COUNTY RD 304
FULTON, MO.

DESIGN BY: TOM HALL
DRAWN BY: TOM HALL
DATE: 08/04/2016



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

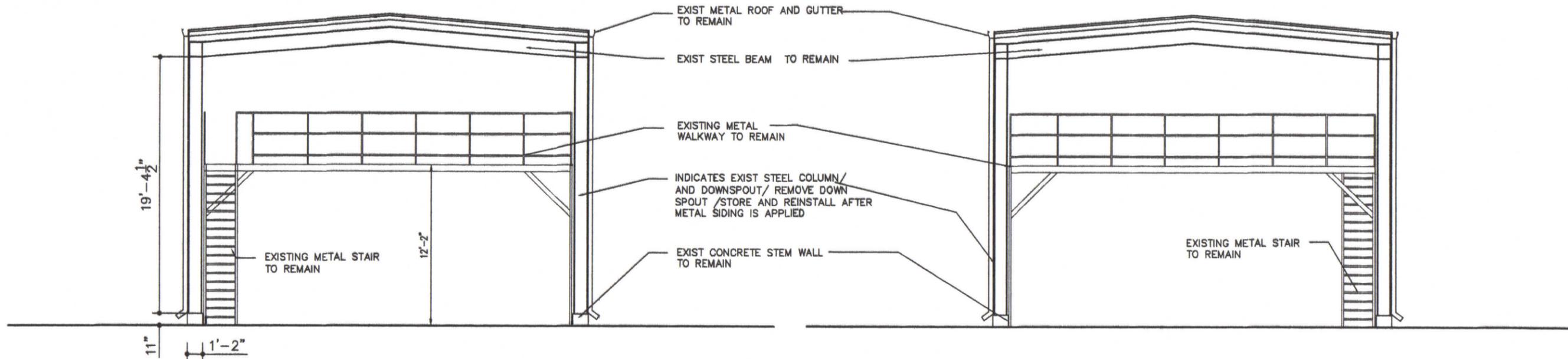


EXISTING FLOOR PLAN

**MISSOURI DEPARTMENT
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FACILITIES MANAGEMENT

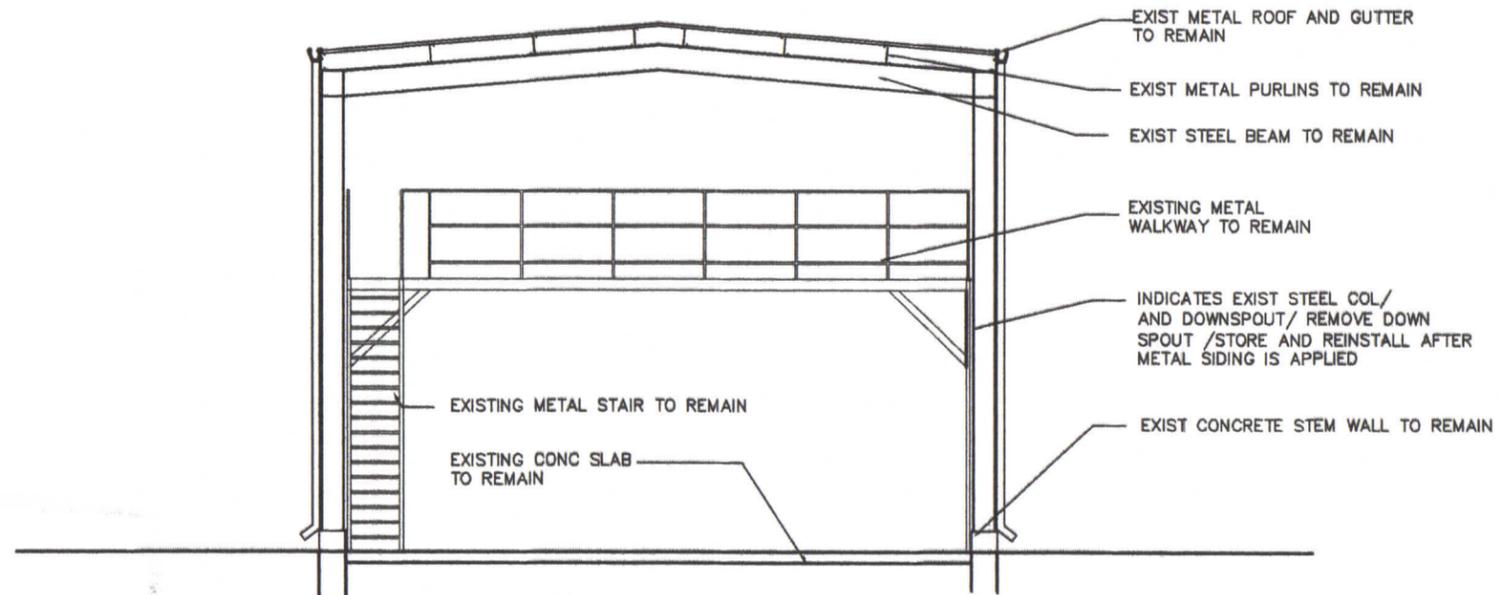
**FULTON WASH BAY ENCLOSURE
ADDRESS
FULTON, MO.**

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DATE: 08/12/2016

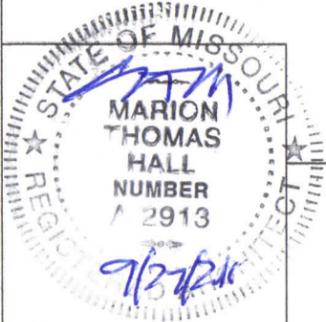


A
3
EXISTING ELEVATION
SCALE: 1/8" = 1'-0"

B
3
EXISTING ELEVATION
SCALE: 1/8" = 1'-0"



C
3
EXISTING SECTION
SCALE: 1/8" = 1'-0"

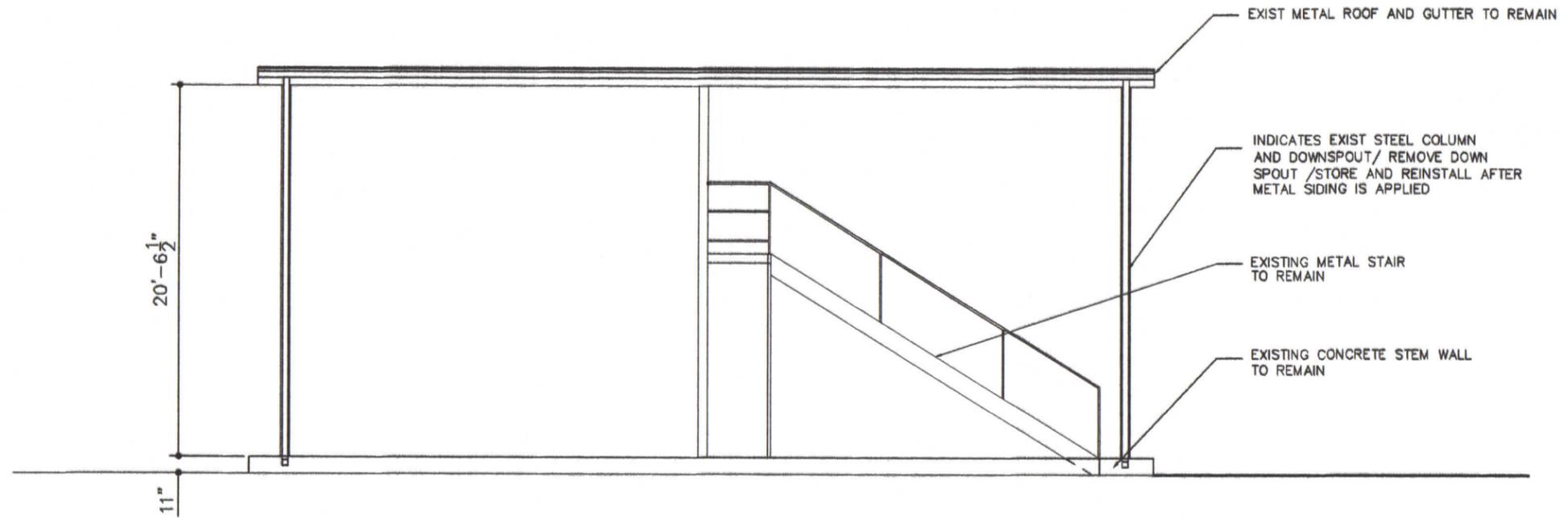


EXISTING ELEVATIONS

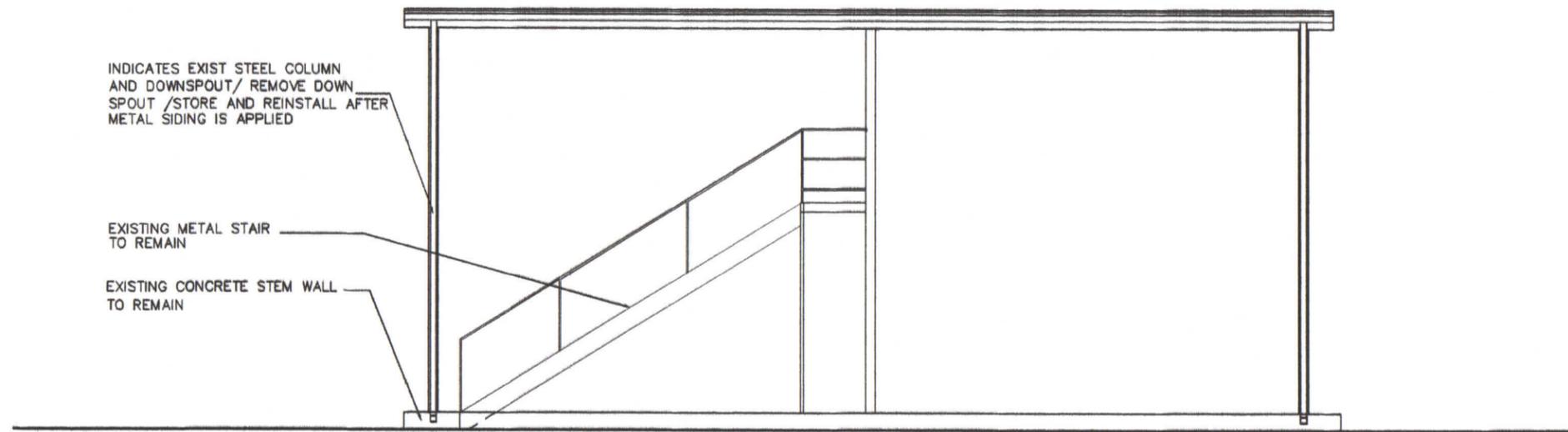
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FULTON, MO. 65251

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A EXISTING ELEVATION
4 SCALE: 1/8" = 1'-0"



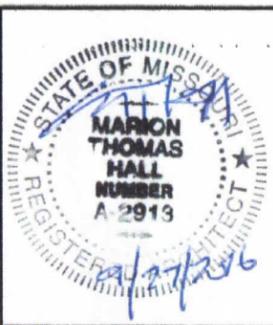
B EXISTING ELEVATION
4 SCALE: 1/8" = 1'-0"

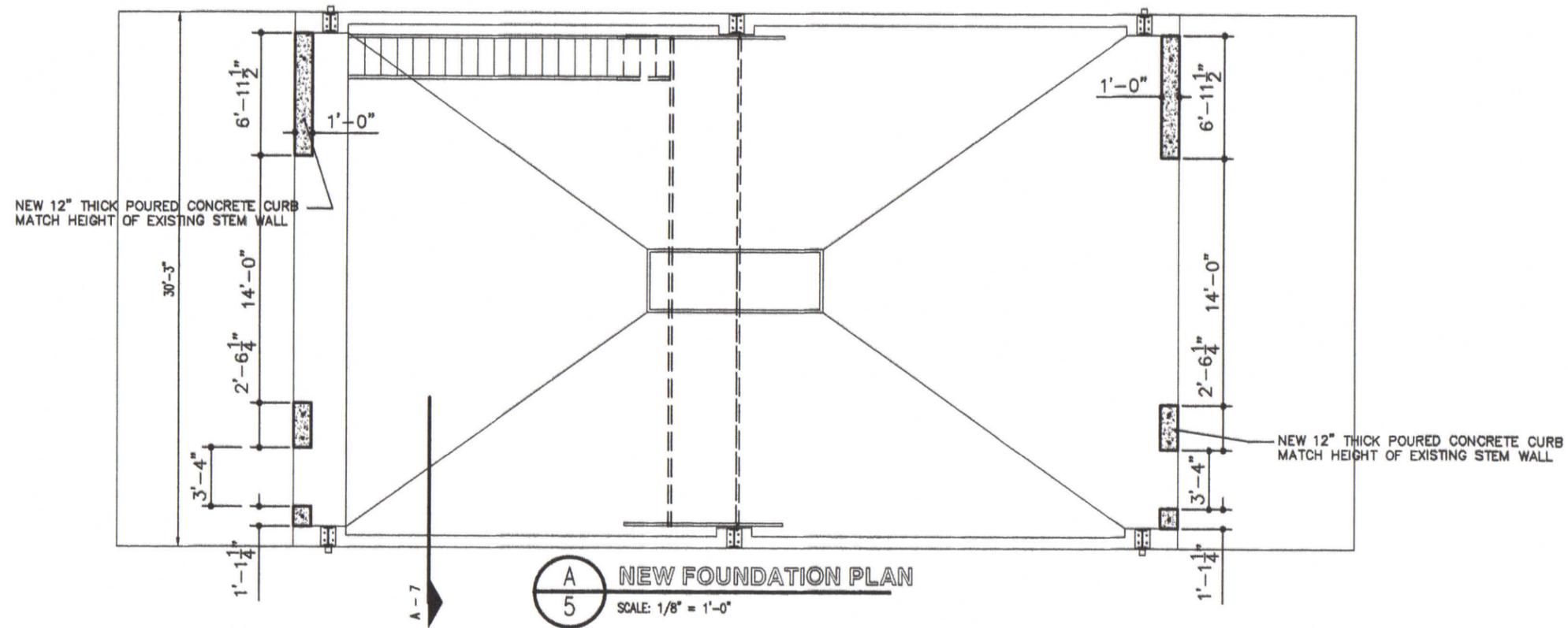
EXISTING ELEVATIONS

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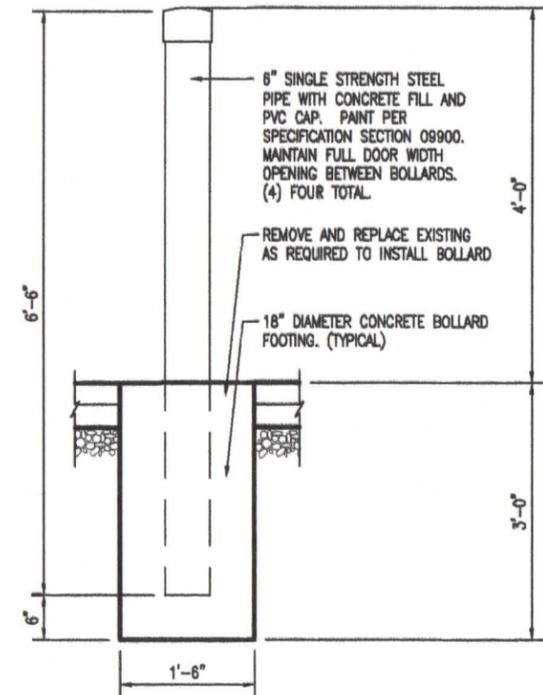
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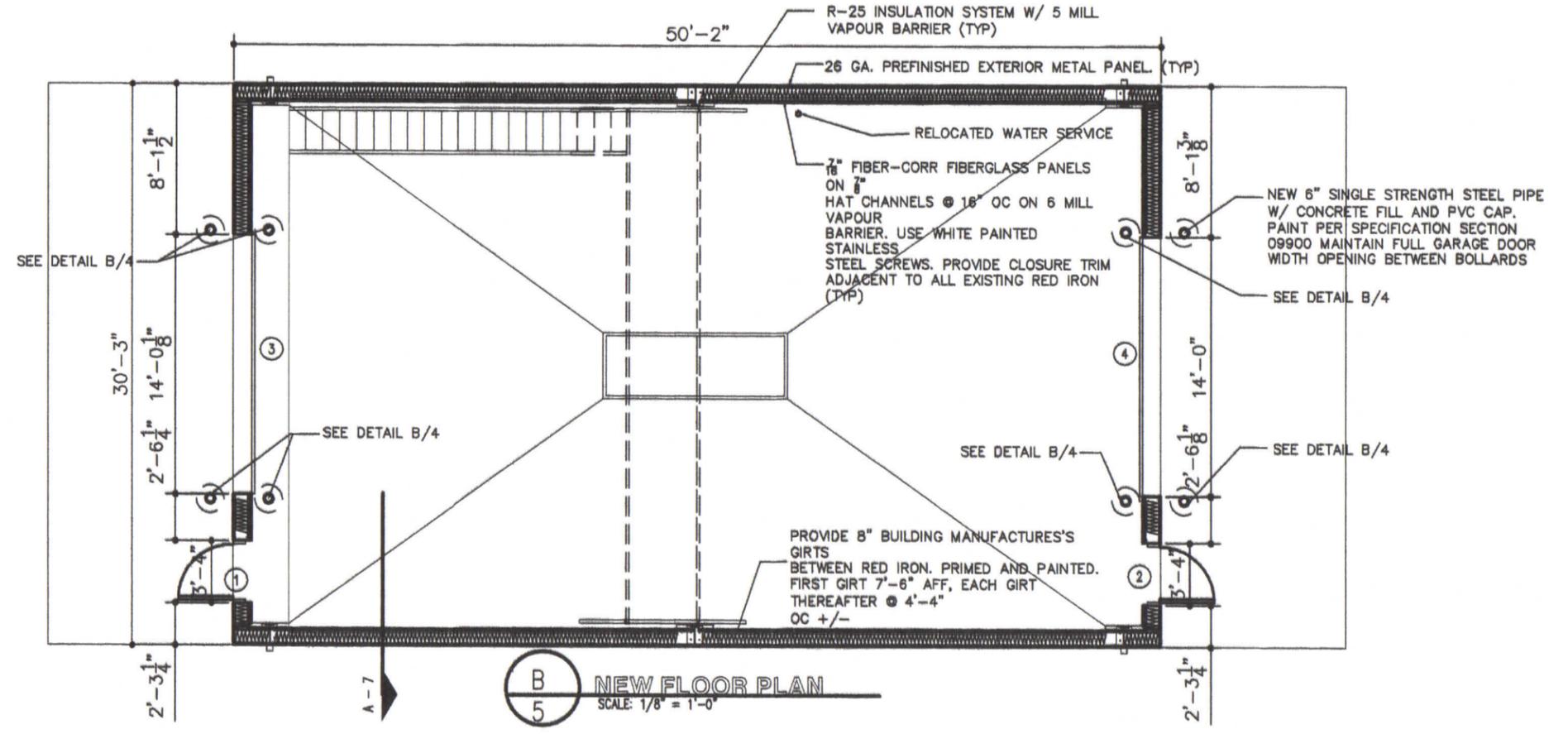




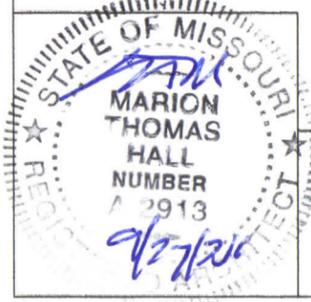
A
5
NEW FOUNDATION PLAN
SCALE: 1/8" = 1'-0"



B
4
BOLLARD @ PIER DETAIL
SCALE: 1/2" = 1'-0" 8 BOLLARDS REQUIRED



B
5
NEW FLOOR PLAN
SCALE: 1/8" = 1'-0"

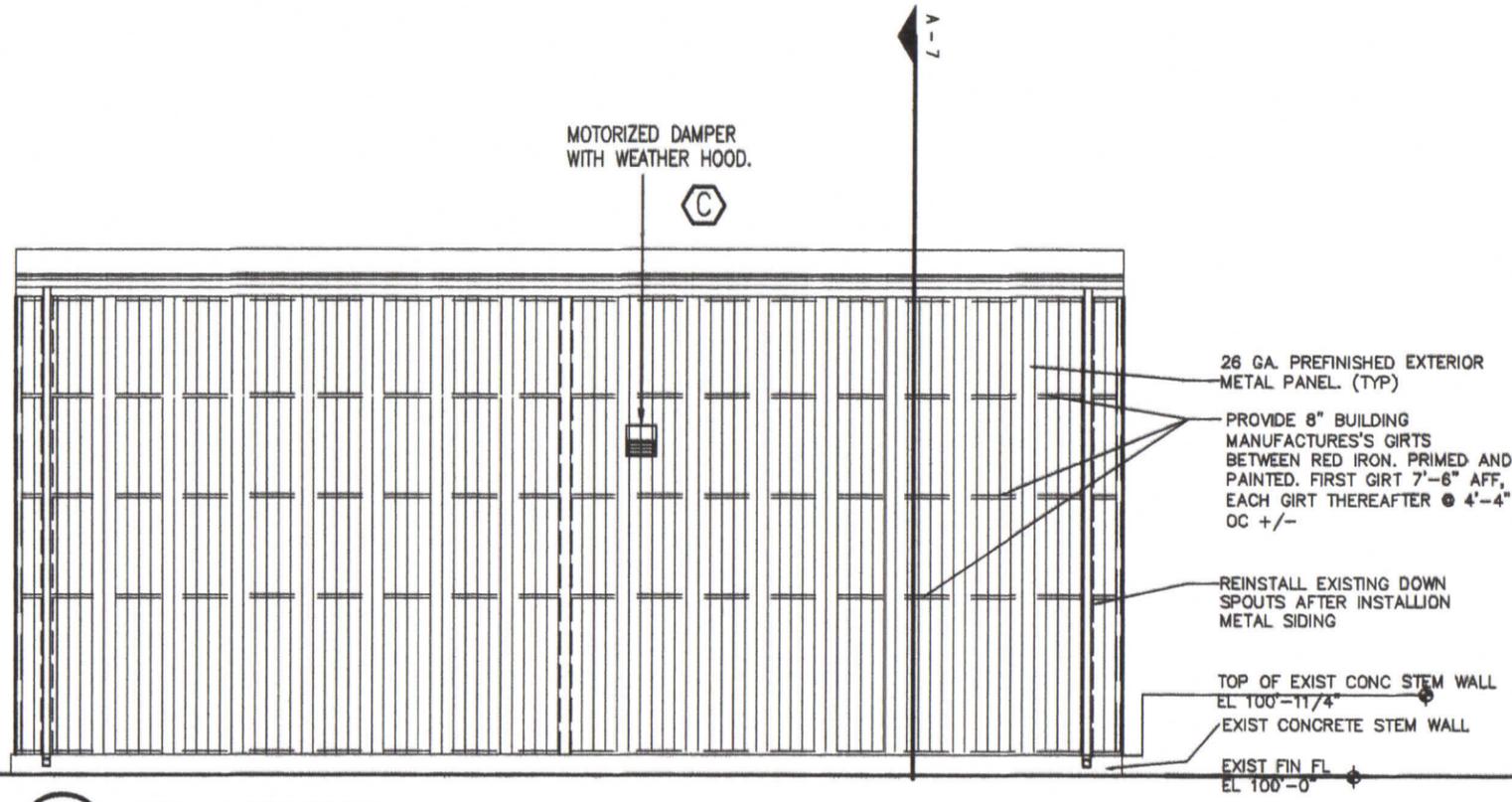


NEW FLOOR PLAN

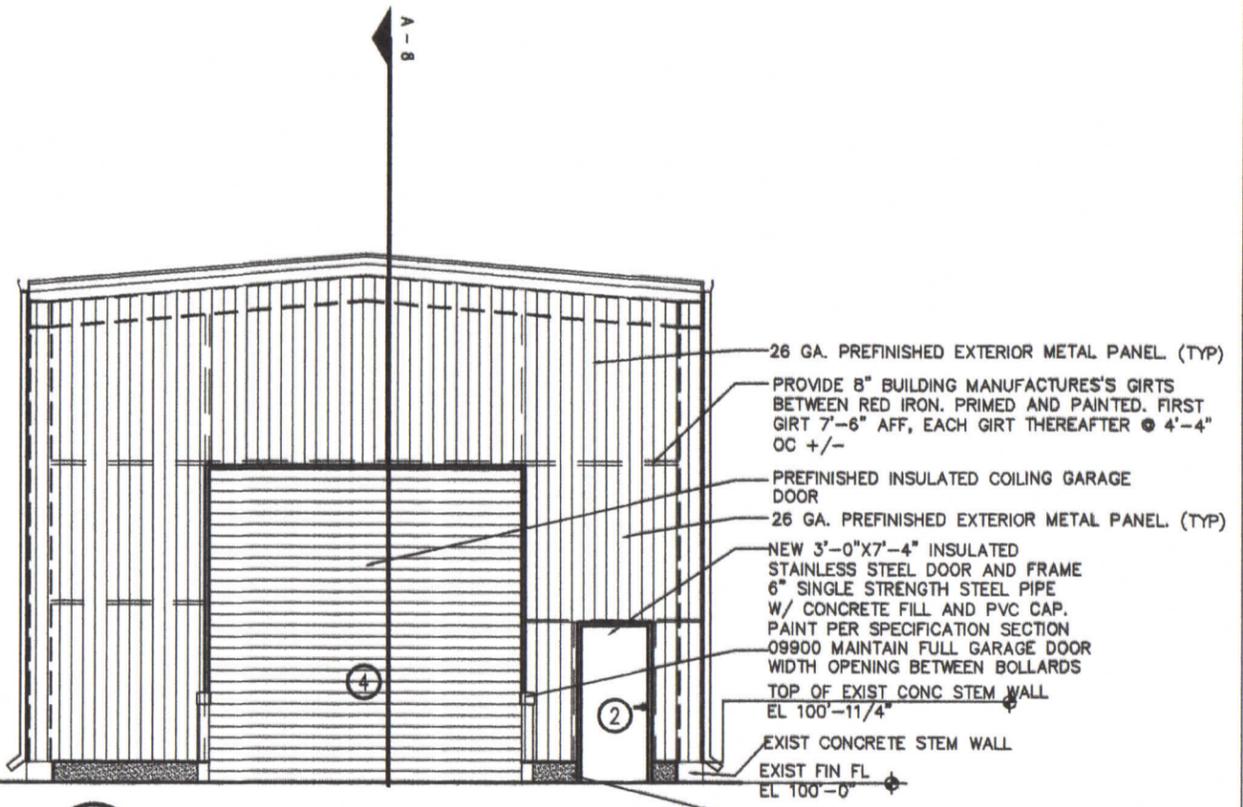
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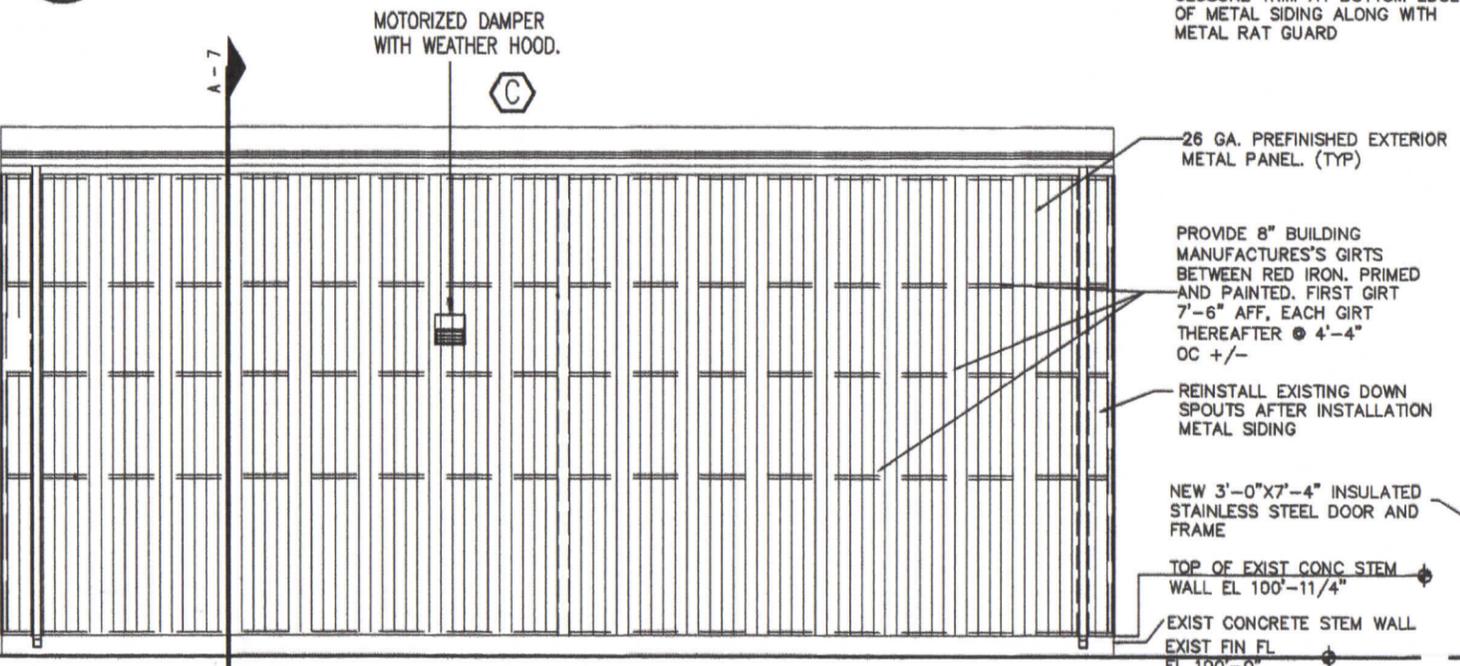


A NEW ELEVATION
6 SCALE: 1/8" = 1'-0"

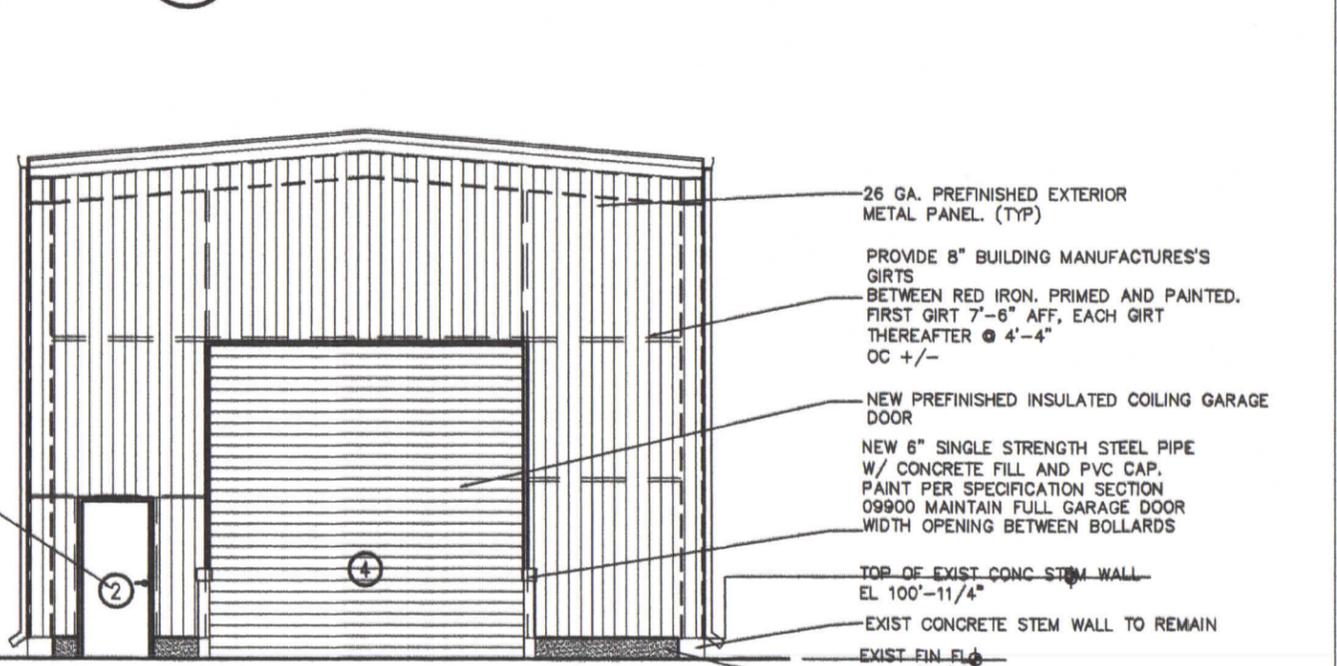


B NEW ELEVATION
6 SCALE: 1/8" = 1'-0"

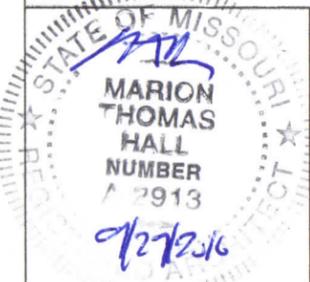
CONTRACTOR TO INSTALL FOAM CLOSURE TRIM AT BOTTOM EDGE OF METAL SIDING ALONG WITH METAL RAT GUARD



C NEW ELEVATION
6 SCALE: 1/8" = 1'-0"



D NEW ELEVATION
6 SCALE: 1/8" = 1'-0"

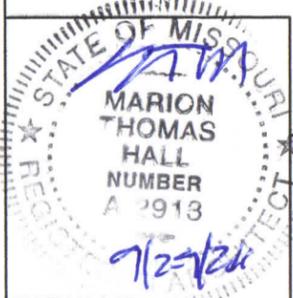
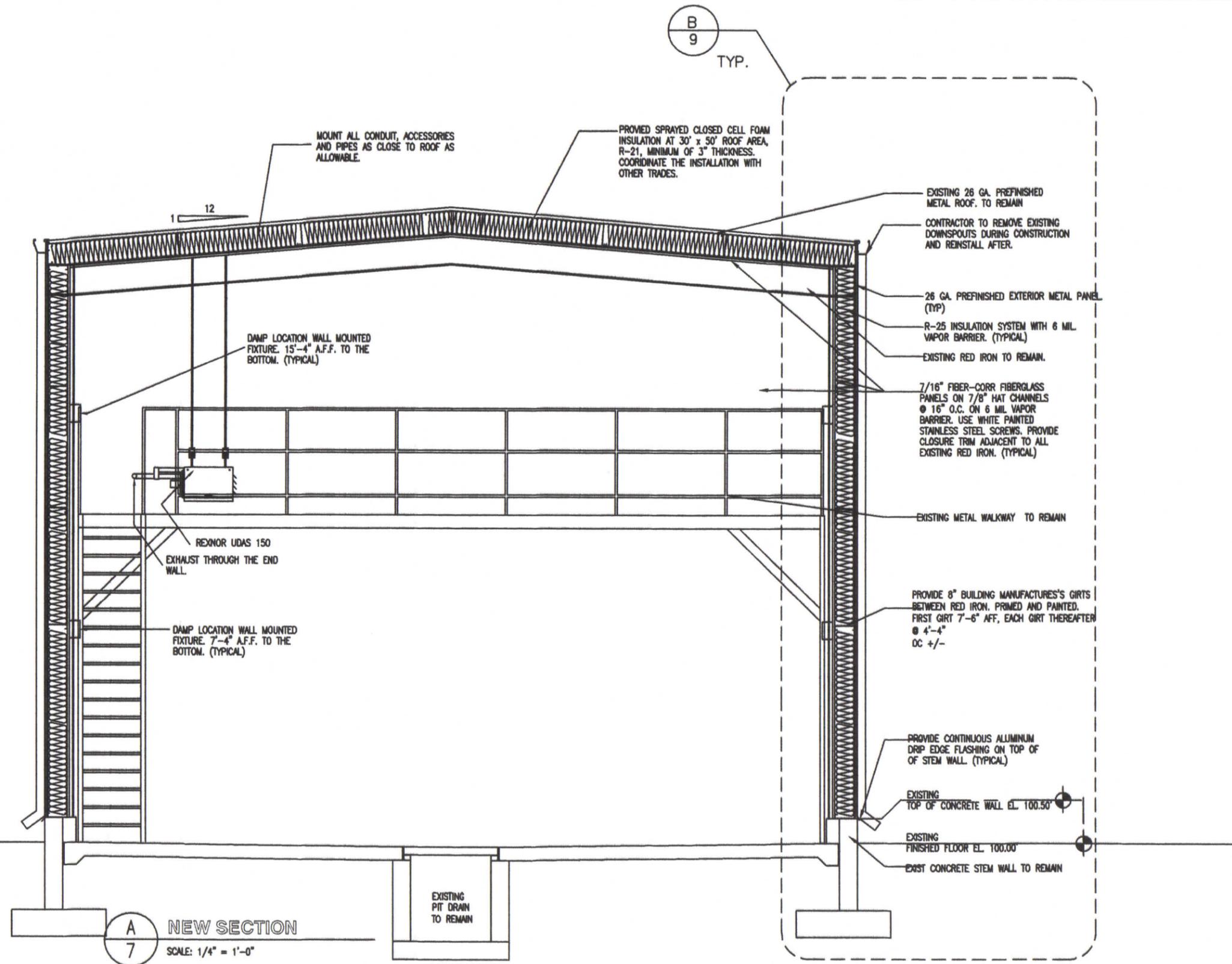


NEW ELEVATIONS

MISSOURI DEPARTMENT OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
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FULTON WASH BAY ENCLOSURE
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BUILDING SECTION

MISSOURI DEPARTMENT OF TRANSPORTATION

DIVISION OF GENERAL SERVICES FACILITIES MANAGEMENT

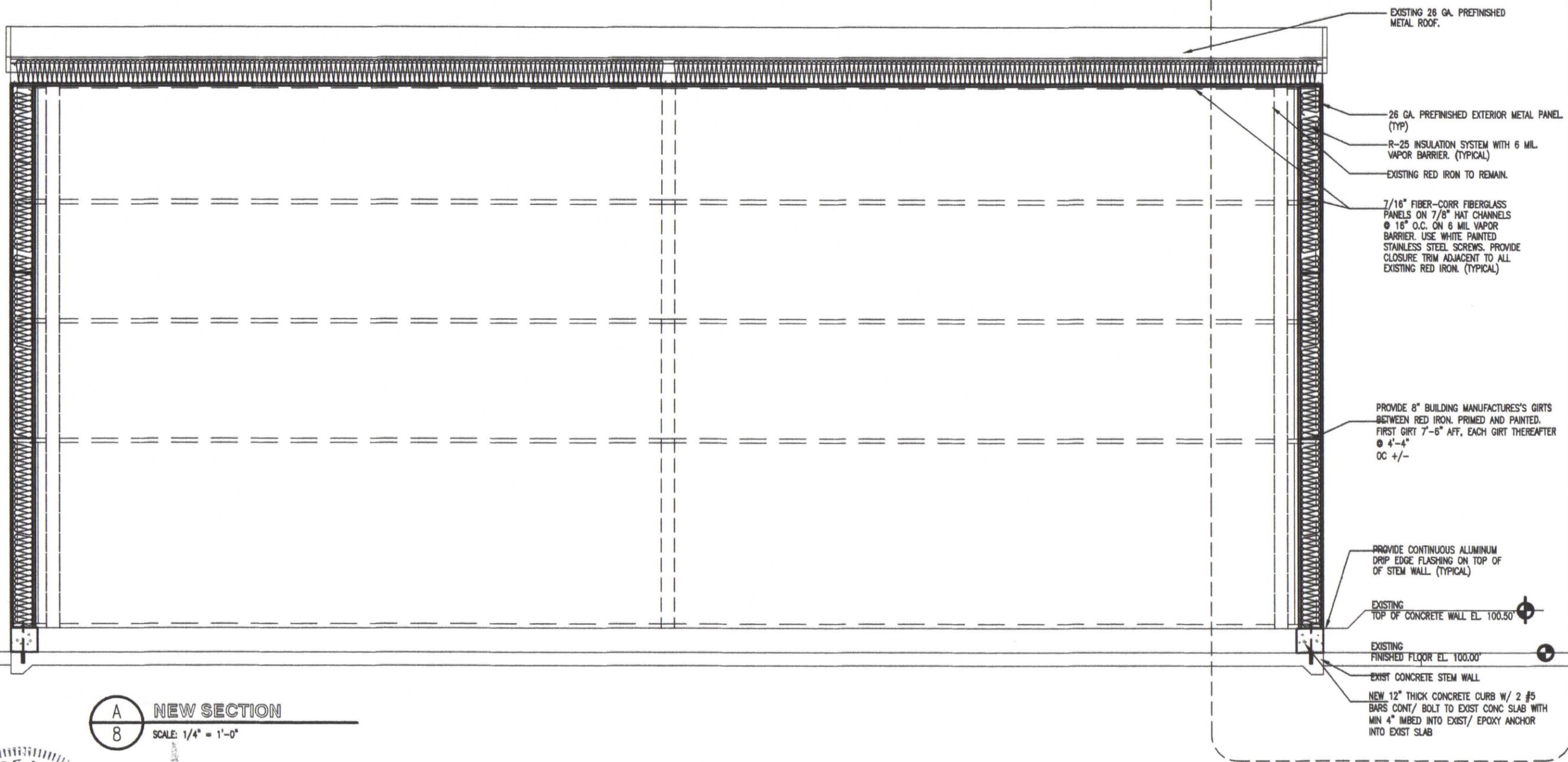
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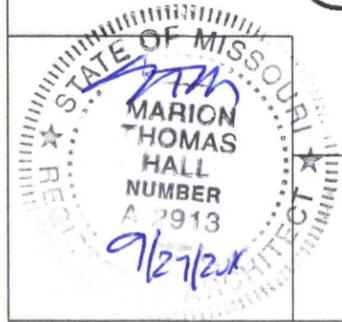
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DATE: 08/12/2016

A
10
TYP.



A
8
NEW SECTION
SCALE: 1/4" = 1'-0"



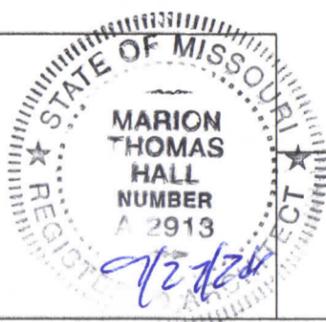
BUILDING SECTION

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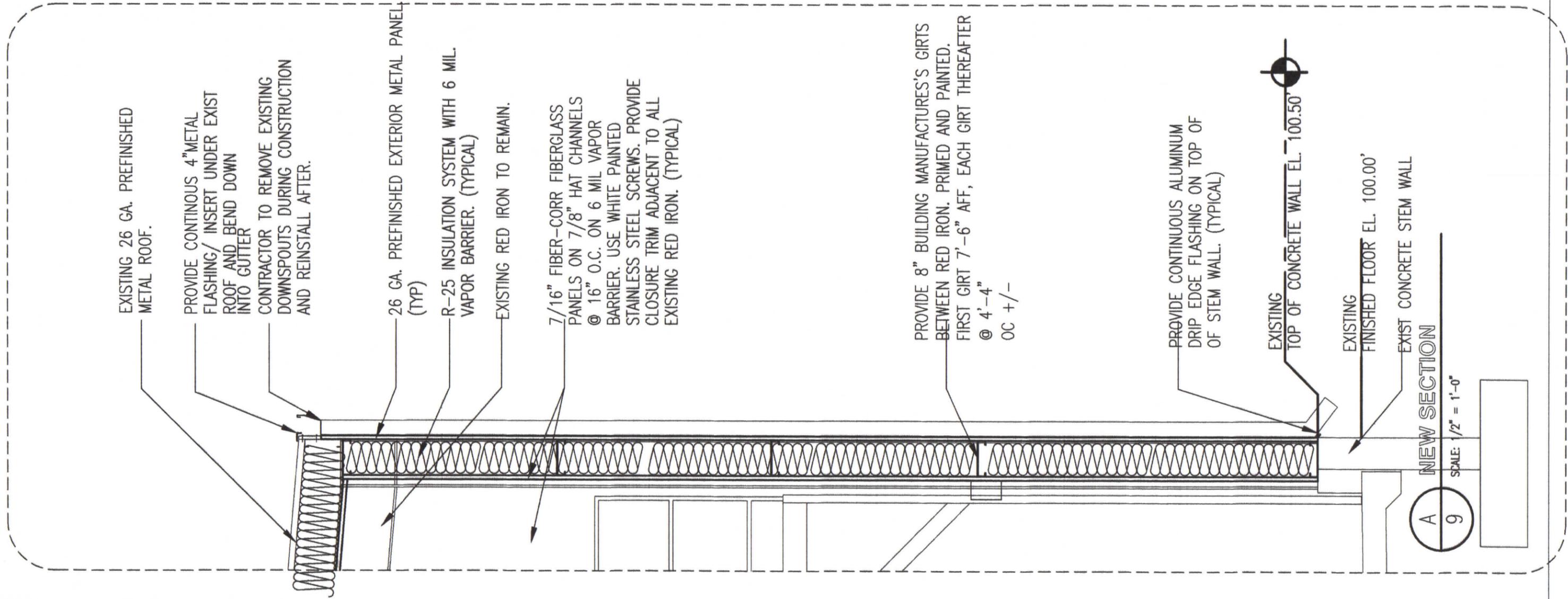


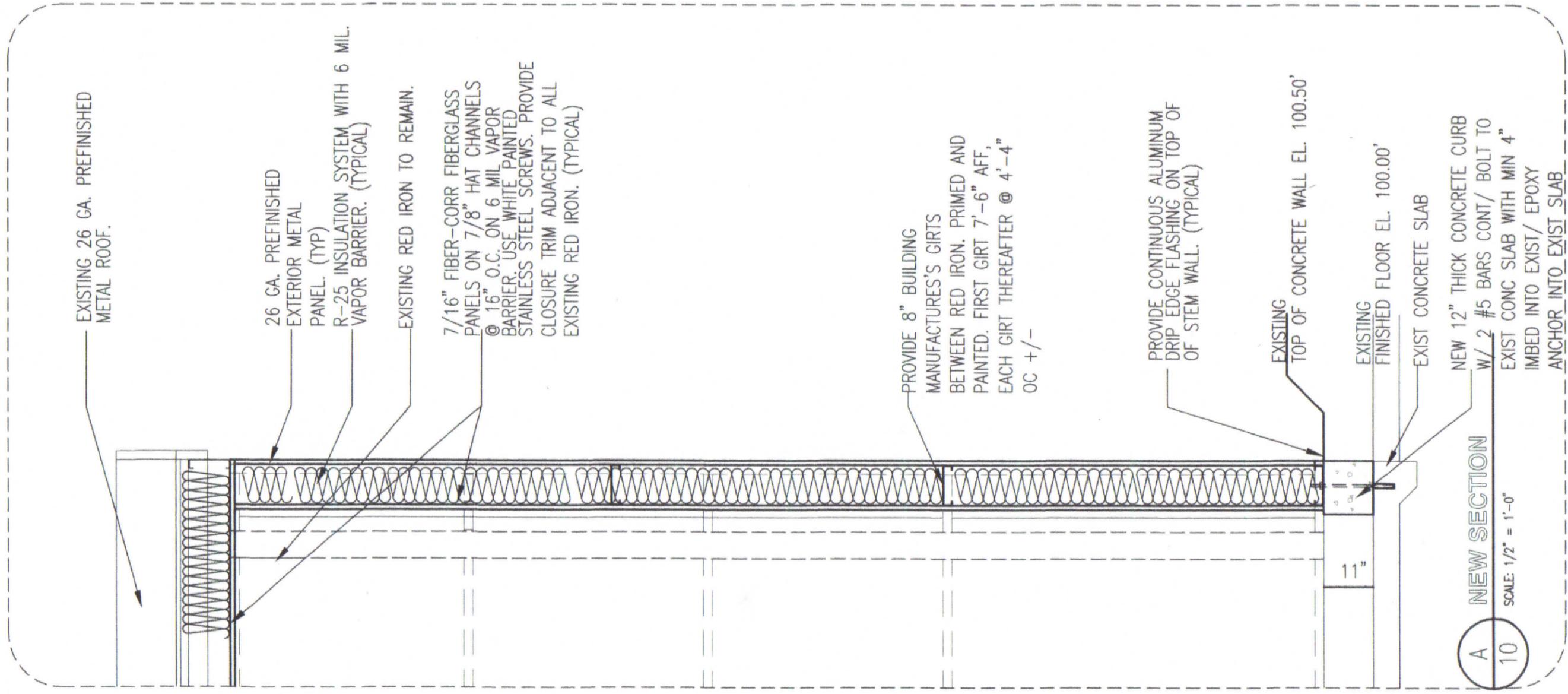
WALL SECTION

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EXISTING 26 GA. PREFINISHED METAL ROOF.

26 GA. PREFINISHED EXTERIOR METAL PANEL. (TYP)

R-25 INSULATION SYSTEM WITH 6 MIL. VAPOR BARRIER. (TYPICAL)

EXISTING RED IRON TO REMAIN.

7/16" FIBER-CORR FIBERGLASS PANELS ON 7/8" HAT CHANNELS @ 16" O.C. ON 6 MIL VAPOR BARRIER. USE WHITE PAINTED STAINLESS STEEL SCREWS. PROVIDE CLOSURE TRIM ADJACENT TO ALL EXISTING RED IRON. (TYPICAL)

PROVIDE 8" BUILDING MANUFACTURER'S GIRTS BETWEEN RED IRON. PRIMED AND PAINTED. FIRST GIRT 7'-6" AFF, EACH GIRT THEREAFTER @ 4'-4" OC +/-

PROVIDE CONTINUOUS ALUMINUM DRIP EDGE FLASHING ON TOP OF OF STEM WALL. (TYPICAL)

EXISTING TOP OF CONCRETE WALL EL. 100.50'

EXISTING FINISHED FLOOR EL. 100.00'

EXIST CONCRETE SLAB

NEW 12" THICK CONCRETE CURB W/ 2 #5 BARS CONT/ BOLT TO EXIST CONC SLAB WITH MIN 4" IMBED INTO EXIST/ EPOXY ANCHOR INTO EXIST SLAB

A NEW SECTION

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

10



WALL SECTION

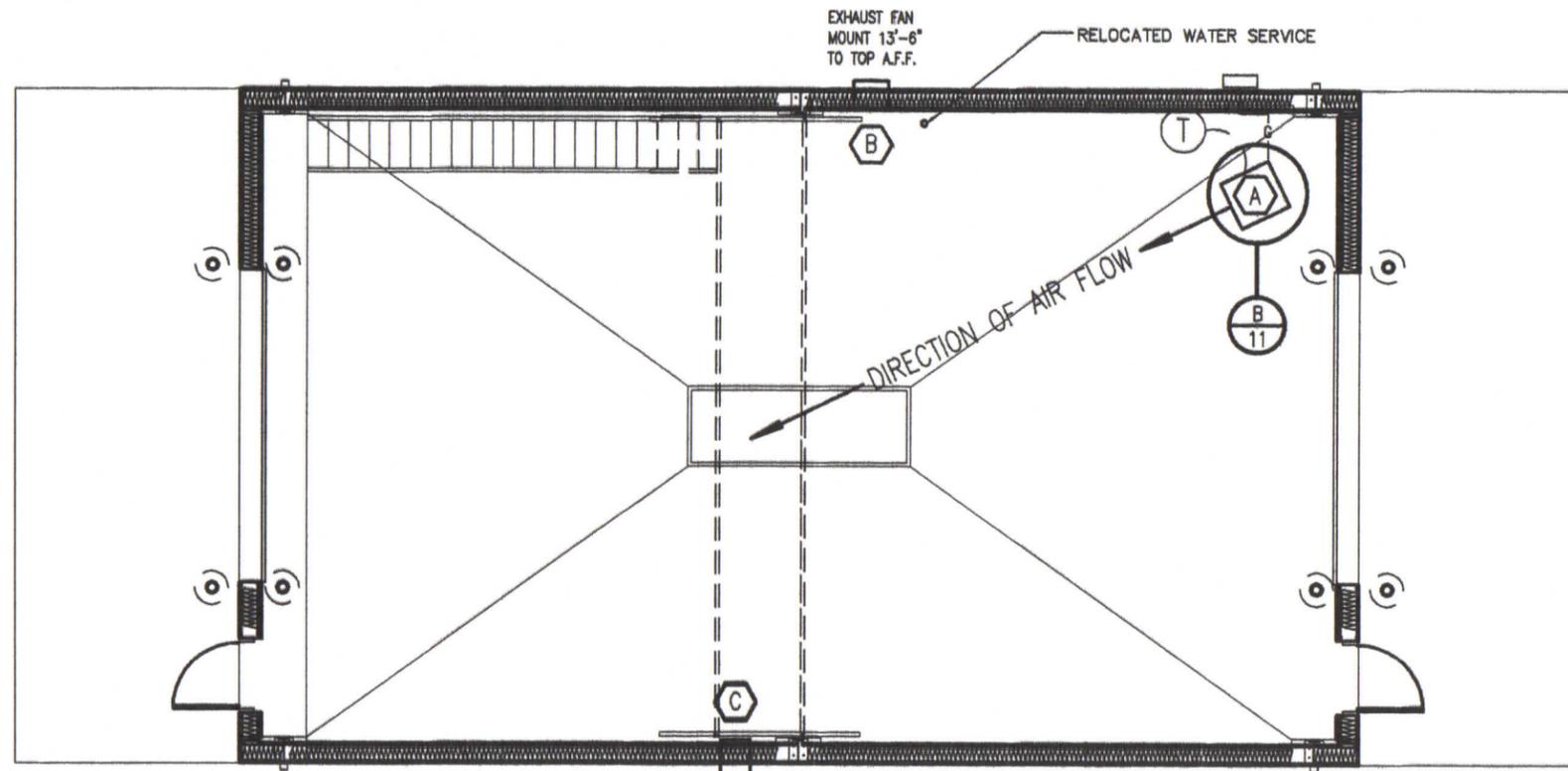
MISSOURI DEPARTMENT OF TRANSPORTATION

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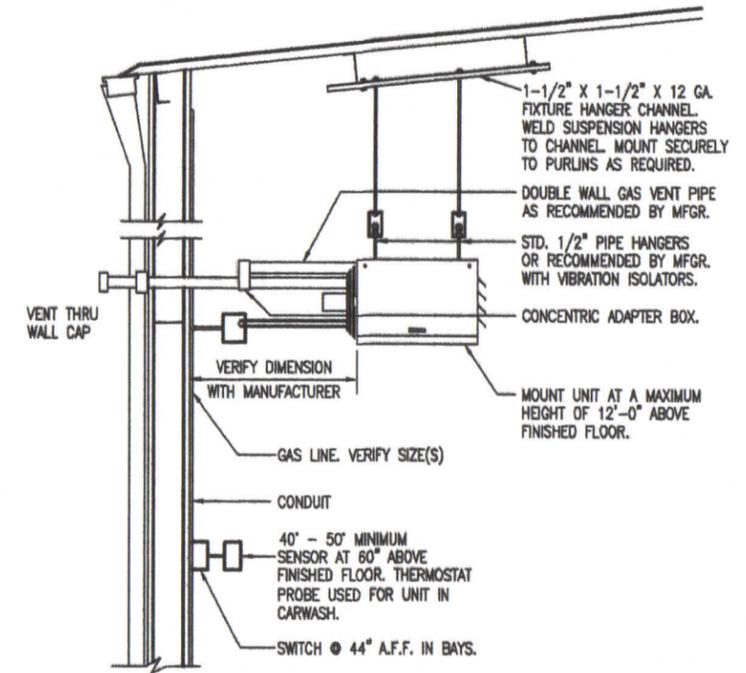
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SEE HVAC SCHEDULE SHEET 14.



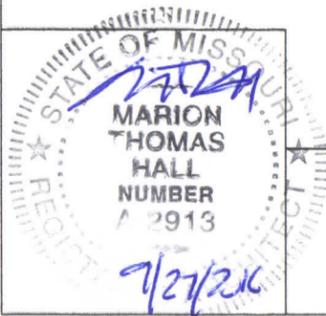
A
11
MECHANICAL PLAN
SCALE: 1/8" = 1'-0"



B
11
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.



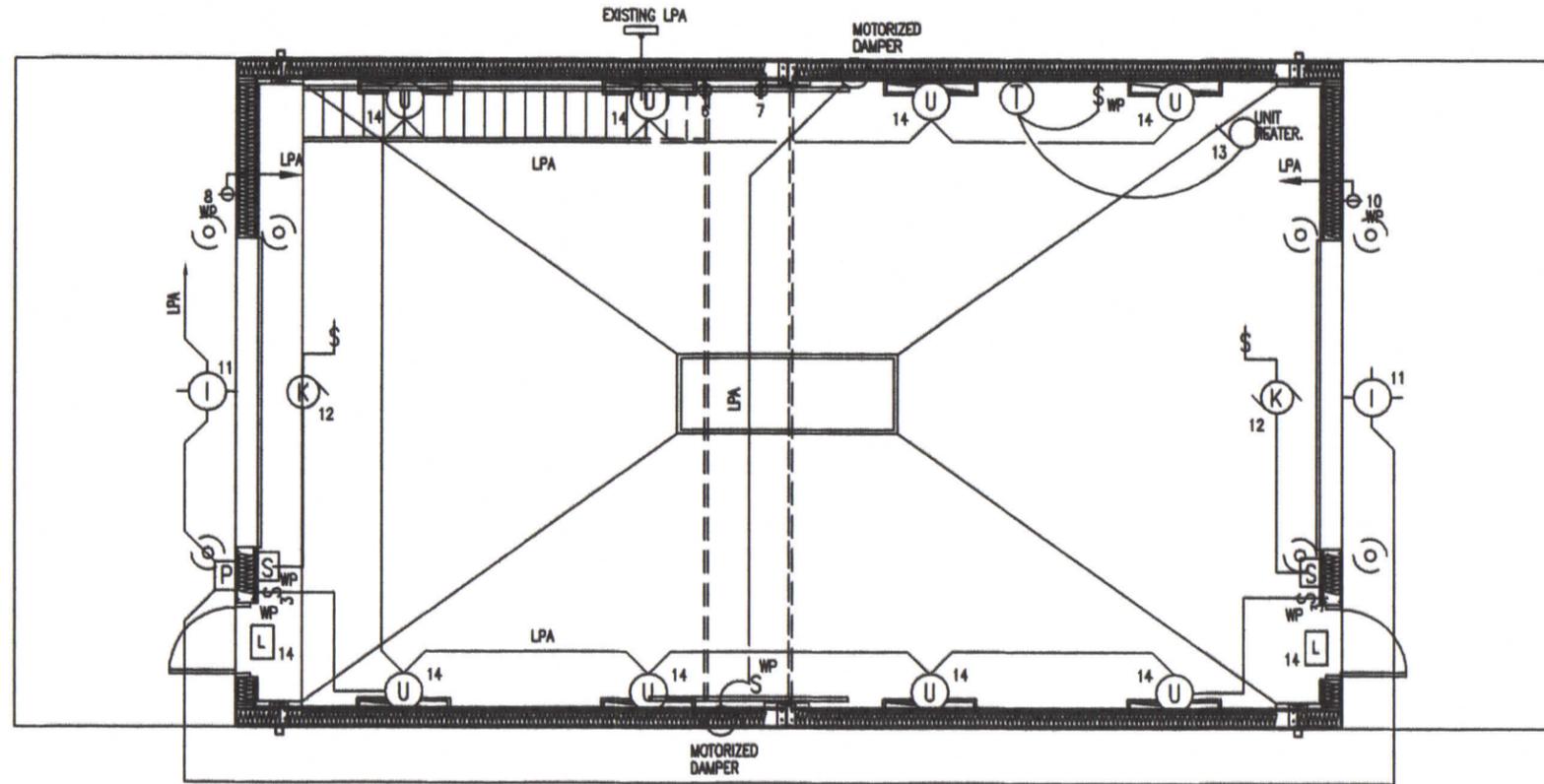
MECHANICAL PLAN

MISSOURI DEPARTMENT
OF TRANSPORTATION

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FACILITIES MANAGEMENT

FULTON WASH BAY ENCLOSURE
4975 COUNTY RD 304
FULTON, MO. 65251

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



ELECTRICAL PLAN

MISSOURI DEPARTMENT
 OF TRANSPORTATION
 DIVISION OF GENERAL SERVICES
 FACILITIES MANAGEMENT

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 4975 COUNTY RD 304
 FULTON, MO. 65251

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 DRAWN BY: TOM HALL
 DATE: 08/04/2016

BY OTHERS.

| SERVICE PANEL LPA | | | | | | | | |
|---------------------------------------------------------------------------|-------------------------|------|--------|-----|-------|------|-------------------------|-----|
| VOLTS: 120/240, 1PH, 3-WIRE NEMA 3R, SQUARE D-MH35WP, GROUND-AS REQUIRED. | | | | | | | | |
| CIR | SERVICE | VA | BKR | CIR | BKR | VA | SERVICE | CIR |
| 1 | 200A SERVICE DISCONNECT | -- | 100A2P | A | 20A1P | 1000 | EXTERIOR - RECEPTACLE ● | 2 |
| 3 | | | | B | 20A1P | 1000 | EXTERIOR - RECEPTACLE ● | 4 |
| 5 | EXTERIOR - RECEPTACLE ● | 1000 | 20A1P | A | 20A1P | 1000 | EXTERIOR - RECEPTACLE ● | 6 |
| 7 | EXHAUST FAN AND DAMPER | 1221 | 20A1P | B | 30A1P | 2162 | OHD OPENERS | 8 |
| 9 | EXTERIOR LIGHTS | 434 | 20A1P | A | 20A1P | 1246 | BAY LIGHTING | 10 |
| 11 | INFRARED TUBE HEATER | 300 | 20A1P | B | 20A1P | - | SPARE | 12 |
| 13 | LIGHTS-101 TRUCK WASH | 788 | 20A1P | A | 20A1P | 172 | EXTERIOR LIGHTING | 14 |
| 15 | | | | B | | | | 16 |
| 17 | | | | A | | | | 18 |
| 19 | | | | B | | | | 20 |
| 21 | | | | A | | | | 22 |
| 23 | | | | B | | | | 24 |
| 25 | | | | A | | | | 26 |
| 27 | | | | B | | | | 28 |
| 29 | | | | A | | | | 30 |
| 31 | | | | B | | | | 32 |
| 33 | | | | A | | | | 34 |
| 35 | | | | B | | | | 36 |
| 37 | | | | A | | | | 38 |
| 39 | | | | B | | | | 40 |
| 41 | | | | A | | | | 42 |

● CIRCUIT BREAKER SHALL BE GFI RATED

BY OTHERS.

| ELECTRIC SCHEDULE | | | | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|---|------------|----|-------|--------------------------------------------------------------------------------------------------------------------------|
| MANUF. | MODEL | # | LAMP TYPES | W | MOUNT | REMARKS |
| WILLIAMS Ⓢ | 96-4-L40/830-HIAFR-WET/2-DRV-UNV | | LED | 40 | WALL | 7-3/8"x48" MOISTURE RESISTANT, FIBERGLASS HOUSING, FROSTED IMPACT - RESISTANT LENS. POLYCARBONATE PLASTIC LATCHES |
| ARLAS Ⓢ | WLM43LED | 1 | LED | 43 | WALL | EXTERIOR, SURFACE MOUNT LIGHT FIXTURE, WITH ALUMINUM HOUSING, & GLARE FREE LENS |
| Ⓢ | OVERHEAD DOOR OPERATOR | | | | WALL | 115V, 1-PH, HOOD MOUNT TYPE COMMERCIAL IN CARWASH SEE SPECIFICATION SECTION 08720. |
| LITHONIA Ⓢ | SERIES LQM LQM-SW-3R-120/277 ELN | | | | CLG | QUANTUM SERIES EXIT LIGHT WITH WHITE THERMOPLASTIC HOUSING & UNIVERSAL MOUNT. INSTALL ABOVE LIGHT FIXTURE "U" AT DOOR 2. |
| Ⓢ | OVERHEAD DOOR CONTROL WATERPROOF | | | | 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. | | | | | | |

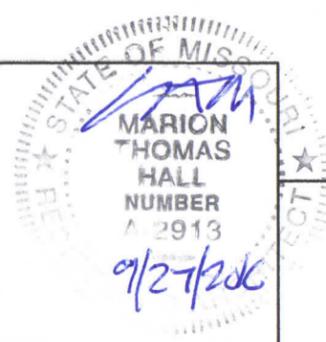
LEGEND

- Ⓢ WP SINGLE POLE SWITCH, MOUNT 48" A.F.F. IN FS BOX WITH HUBBELL HBL 7420 COVER.
- Ⓢ WP SINGLE RECEPTACLE MOUNTED IN FS BOX WITH HUBBELL HBL7423 COVER.

ELECTRICAL NOTES:

1. DRAWINGS AND DIAGRAMS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FOR THE DIMENSIONS.
2. ELECTRICAL WORK SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (N.E.C.)
3. PROVIDE ELECTRICAL EQUIPMENT AND ACCESSORIES REQUIRED FOR A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM REQUIRED BY MANUFACTURER'S INSTRUCTIONS AND DIRECTIONS FOR SYSTEMS SPECIFIED.
4. 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.
5. SEE HVAC SCHEDULE FOR EQUIPMENT SYMBOLS AND EQUIPMENT TO BE HARD WIRED.
6. CONTRACTOR SHALL PROVIDE SERVICE DISCONNECTS AS REQUIRED ON EXTERIOR OF NEW BUILDING.
7. PROVIDE BLOCKING FOR ELECTRICAL DEVICES AS REQUIRED FOR A SECURE APPLICATION.
8. SEE SPECIFICATION SECTION 16100 - ELECTRICAL FOR ADDITIONAL REQUIREMENTS.
9. COORDINATE WORK WITH OTHER TRADES PRIOR TO COMMENCING WITH ELECTRICAL WORK.
10. 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.
11. 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.
12. GROUP CIRCUITS IN CONDUIT WHERE FEASIBLE AS REQUIRED.
13. PROVIDE CONDUIT, CONDUCTORS, BOXES, CONNECTORS, ETC. FROM EXISTING EXTERIOR POWER SOURCE (VERIFY) AS REQUIRED FOR A FUNCTIONAL SYSTEM.

ALL ELECTRICAL BY OTHERS UNLESS OTHERWISE NOTED. COORDINATE DURING CONSTRUCTION.



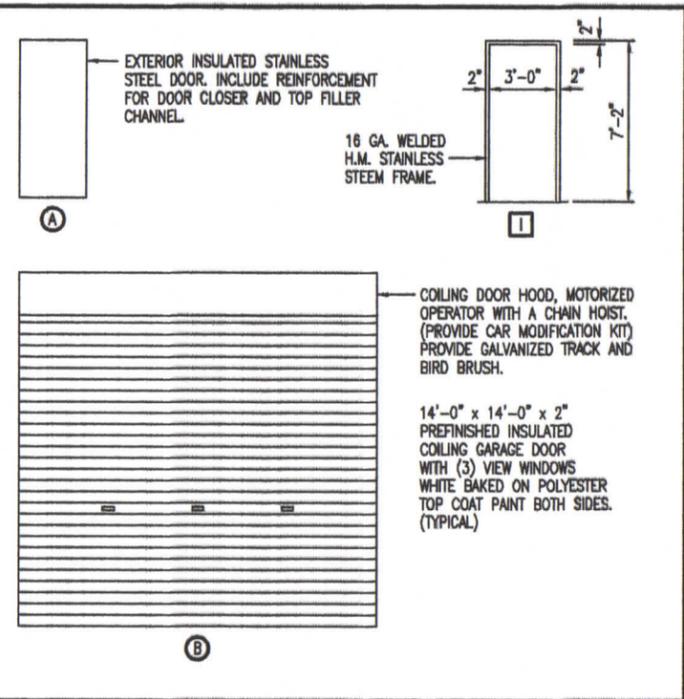
ELECTRICAL SCHEDULE

MISSOURI DEPARTMENT OF TRANSPORTATION
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FACILITIES MANAGEMENT

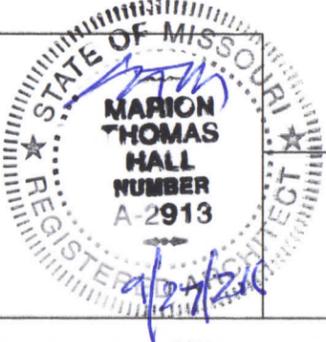
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| DOOR SCHEDULE | | | | | | | |
|---------------|------------------------|-------|----------|-----------|--------|------------|------------|
| NO. | SIZE | SWING | DR. TYPE | FRM. TYPE | DETAIL | FRM. DEPTH | HDWR. GRP. |
| 1 | 3'-0" x 7'-0" x 1-3/4" | 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 | -- | ← | -- | -- |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |



| 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) | 18" DIA. CORROSION RESISTANT SHUTTER FAN | DAYTON 1BLW1 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. |



SCHEDULES

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