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MISSOURI DEPARTMENT OF TRANSPORTATION

WARRENTON
Mechanics Bay & Cold Storage Building
Northeast District
Route MM 0.3 Miles West of Route U
Warren County

CODE REQUIREMENTS

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

ALTERNATE CONDITIONS:

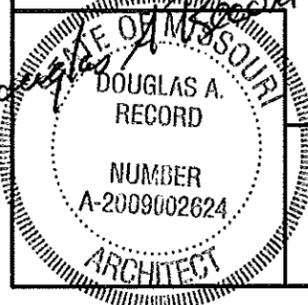
THE VARYING MAKEUP OF SOILS AND OCCURRENCE OF ROCK IN MANY MODOT DISTRICTS MAY REQUIRE CONSIDERABLE REDESIGN OF THE POST PLACEMENT BELOW GRADE FROM THAT SHOWN IN THESE DRAWINGS. THE BIDDER WILL BE RESPONSIBLE FOR OBTAINING ACCURATE INFORMATION FROM THE DISTRICTS FACILITIES MANAGER (I.E. DRILLINGS OR 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 FLUOROPOLYMER (KYNAR 500 OR EQUAL. 40 YEAR POLYESTER IS ACCEPTABLE.
- CONNECTION OF ROOF TRUSS TO POST OR HEADER TO BE EQUAL TO SIMPSON TIE #HD-1 OR HD2A.
- 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 COMPLETE 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.



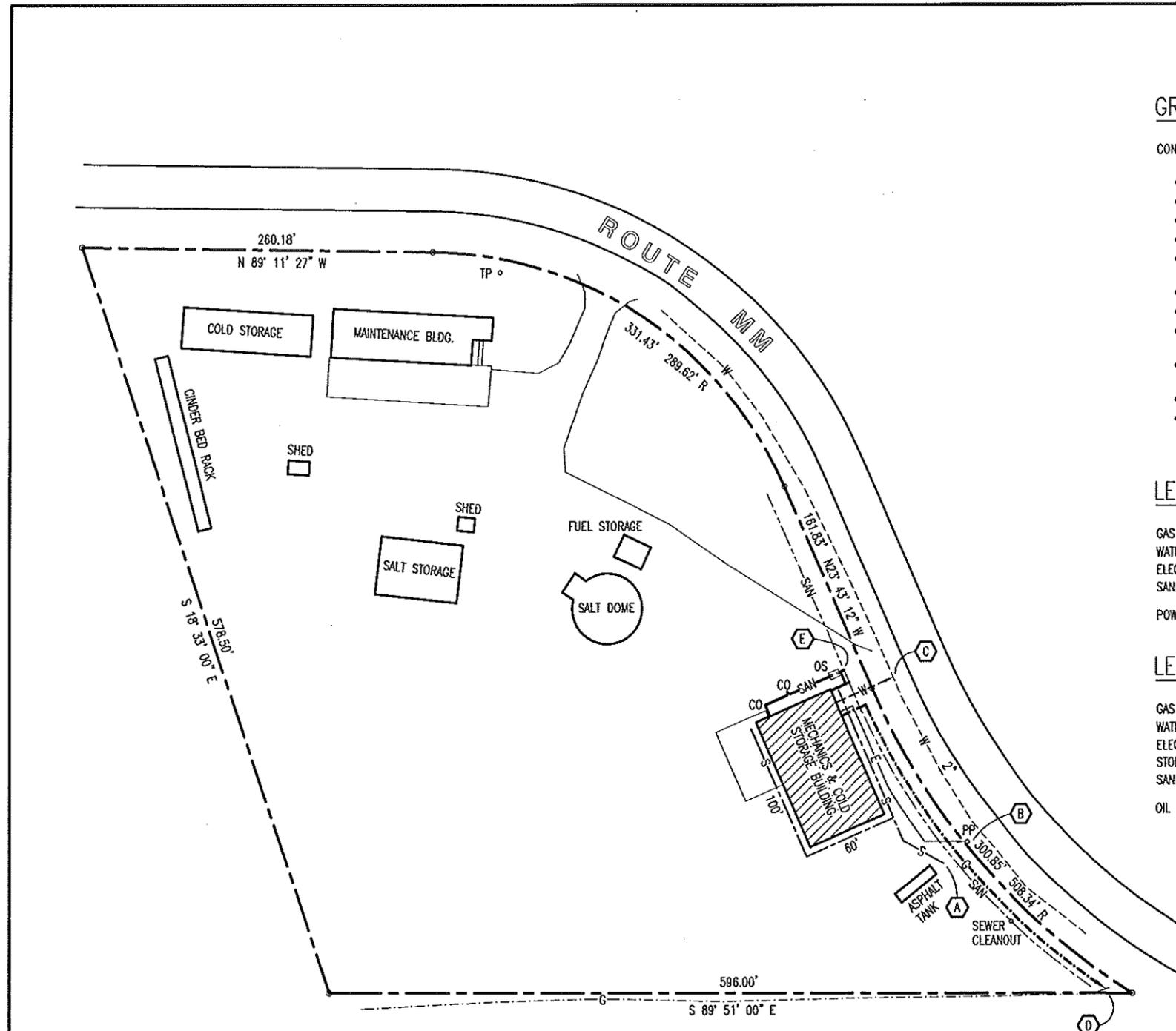
COVER SHEET

MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

WARRENTON
Mechanics Bay & Cold Storage Building
Route MM 0.3 Miles West of Route U
Northeast District - Warren County

DESIGN BY: LARRY CARVER
DRAWN BY: LARRY CARVER
DATE: 3-12-14
Sheet
1 of 23

3/12/14



GRADING NOTES:

- CONTRACTOR WILL BE RESPONSIBLE FOR:
- EXCAVATION OF THE SUB GRADE.
 - EXCAVATING OF FOOTINGS.
 - ALL BACK FILL MATERIAL INSIDE AND OUTSIDE NEW BUILDING.
 - CRUSHED ROCK BASE UNDER BUILDING & APPROACH SLAB.
 - BACK FILL ALONG APPROACH SLAB A MINIMUM OF 6" BELOW TOP OF SLAB AND SIDEWALK.
 - ALL FILL, BACK FILL & SUB GRADE MATERIAL AS REQUIRED.
 - FINISHED GRADE TO DRAIN AWAY FROM BUILDINGS.
 - PROVIDE TOP SOIL, FERTILIZE, SEED AND STRAW AT ALL THE LAWN AREAS DISTURBED DURING CONSTRUCTION.
 - PROVIDE FINISHED GRADE MATERIAL DISTURBED DURING CONSTRUCTION TO MATCH EXISTING.
 - VERIFY UTILITY LOCATIONS BEFORE CONSTRUCTION.
 - MODOT TO HAVE THE FOUR CORNERS STAKED AND BUILDING FOOTPRINT & EXTERIOR APPROACH SLAB LEVELLED.

SITE NOTES

- (A)** RUN STORM SEWER TO DAYLIGHT. CONTRACTOR TO PROVIDE 20'-0" LONG x 5'-0" x 12" DEEP RIP-RAP. SEE FLOOR PLAN FOR STORM SCHEDULE 35 PVC SIZE(S).
- (B)** CONTRACTOR TO MAKE 1-PHASE CONNECTION FOR AN OPERABLE ELECTRICAL SERVICE AT POWER POLE. PROVIDE METER AS/IF REQUIRED ON POLE OR BUILDING. PROVIDE SERVICE DISCONNECTS ON OUTSIDE OF NEW BUILDING.
- (C)** CONTRACTOR TO MAKE CONNECTION AS REQUIRED FOR AN OPERABLE 2" SCHEDULE 80 WATER SERVICE. COPPER SERVICE FROM METER PIT TO INSIDE NEW BUILDING. SEE DETAIL C-19.
- (D)** CONTRACTOR TO MAKE CONNECTION AS REQUIRED FOR AN OPERABLE NATURAL GAS SERVICE INTO NEW BUILDING.
- (E)** CONTRACTOR TO MAKE CONNECTION AS REQUIRED FOR AN OPERABLE SANITARY SEWER SERVICE FOR NEW BUILDING.

LEGEND (EXISTING)

| | | |
|------------------|-------|---------------------------------|
| GAS | ----- | G |
| WATER | ----- | W |
| ELECTRIC 1 PHASE | ----- | E |
| SANITARY SEWER | ----- | SAN |
| POWER POLE -- PP | | POWER & TELEPHONE POLE -- P & T |

LEGEND (NEW)

| | | |
|--------------------|-------|-----|
| GAS | ----- | G |
| WATER | ----- | W |
| ELECTRIC 1 PHASE | ----- | E |
| STORM SEWER | ----- | S |
| SANITARY SEWER | ----- | SAN |
| OIL SEPARATOR - OS | | |

A
2 SITE PLAN
SCALE: 1" = 100'-0"
NORTH

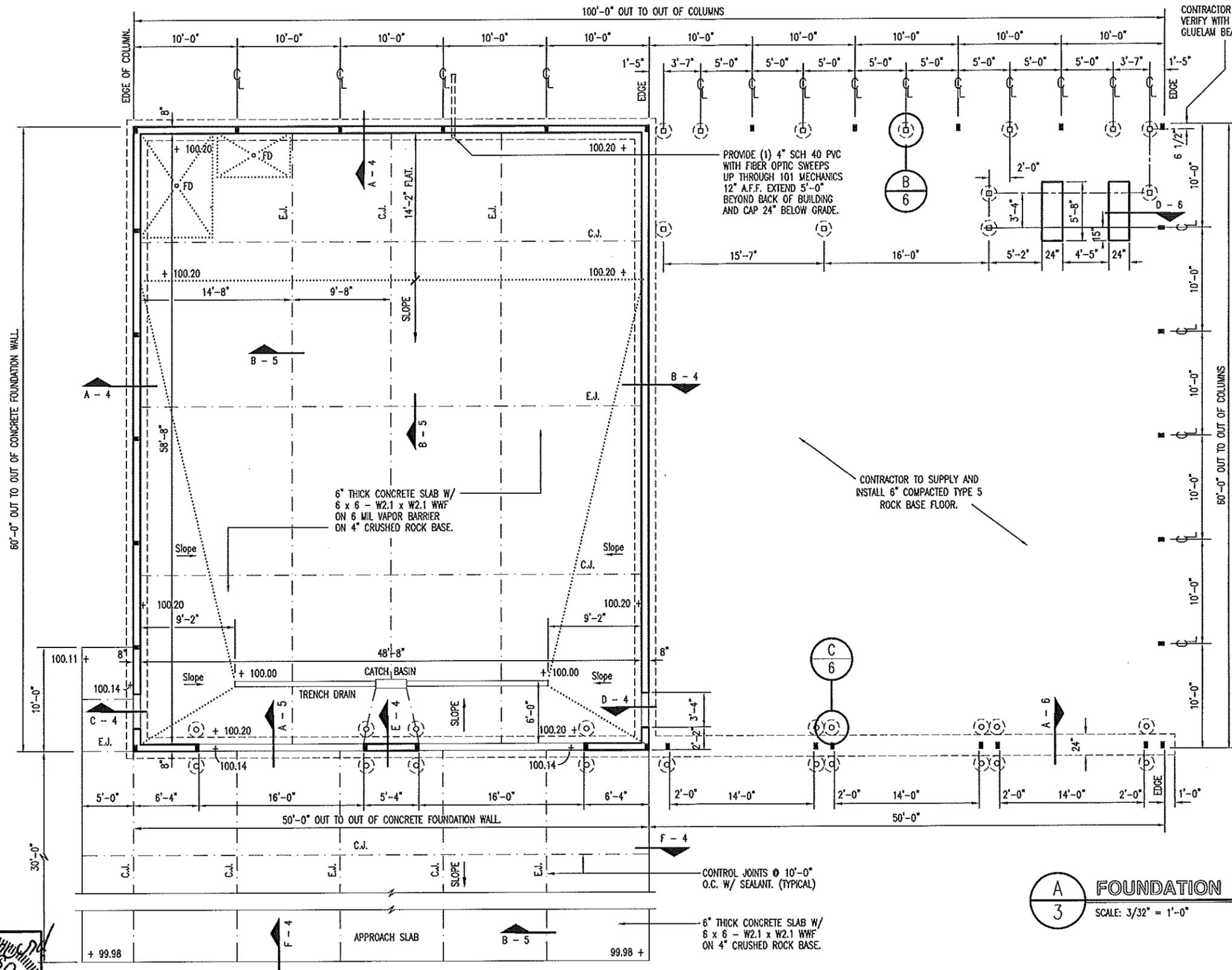
Douglas A. Resour
STATE OF MISSOURI
DOUGLAS A. RECORD
NUMBER A-2009002624
ARCHITECT
3/12/14

SITE PLAN

MISSOURI DEPARTMENT OF TRANSPORTATION
DIVISION OF GENERAL SERVICES FACILITIES MANAGEMENT

WARRENTON
Mechanics Bay & Cold Storage Building
Route MM 0.3 Miles West of Route U
Northeast District - Warren County

DESIGN BY: LARRY CARVER
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DATE: 1-17-14
Sheet 2 of 23



CONTRACTOR NOTE:
VERIFY WITH DEPTH OF NOTCH OF THE
GLUELAM BEAM BEFORE CONSTRUCTION.

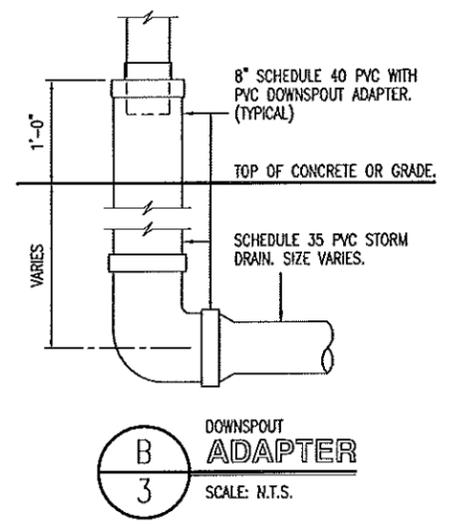
PROVIDE (1) 4" SCH 40 PVC
WITH FIBER OPTIC SWEEPS
UP THROUGH 101 MECHANICS
12" A.F.F. EXTEND 5'-0"
BEYOND BACK OF BUILDING
AND CAP 24" BELOW GRADE.

6" THICK CONCRETE SLAB W/
6 x 6 - W2.1 x W2.1 WWF
ON 6 MIL VAPOR BARRIER
ON 4" CRUSHED ROCK BASE.

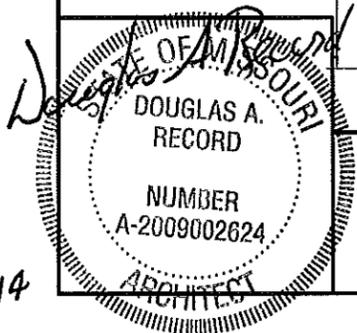
CONTRACTOR TO SUPPLY AND
INSTALL 6" COMPACTED TYPE 5
ROCK BASE FLOOR.

CONTROL JOINTS @ 10'-0"
O.C. W/ SEALANT. (TYPICAL)

6" THICK CONCRETE SLAB W/
6 x 6 - W2.1 x W2.1 WWF
ON 4" CRUSHED ROCK BASE.



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

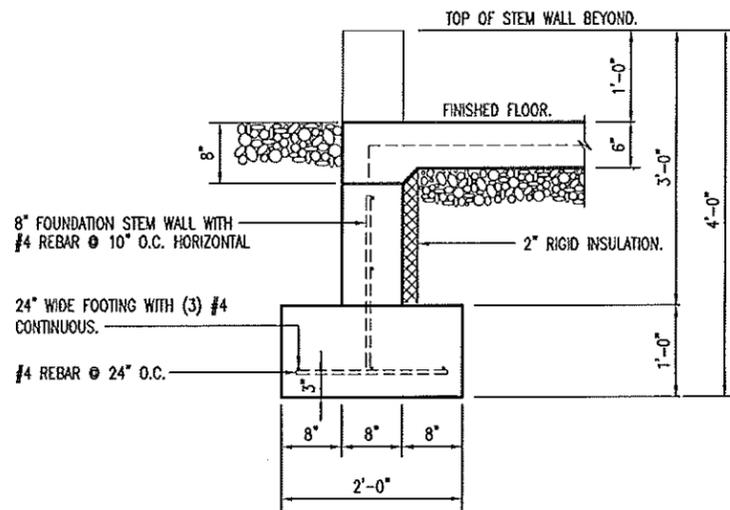


FOUNDATION PLAN

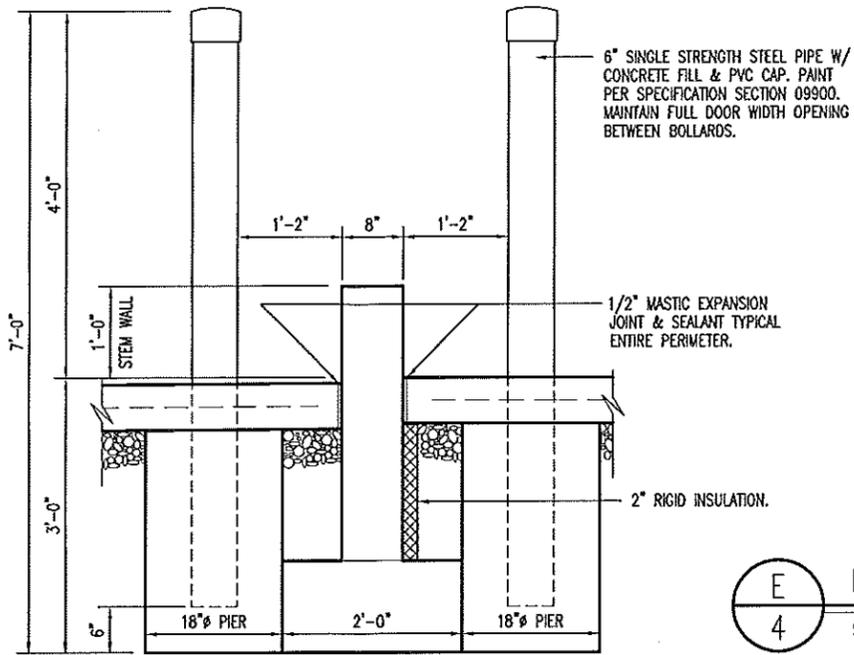
MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

WARRENTON
Mechanics Bay & Cold Storage Building
Route MM 0.3 Miles West of Route U
Northeast District - Warren County

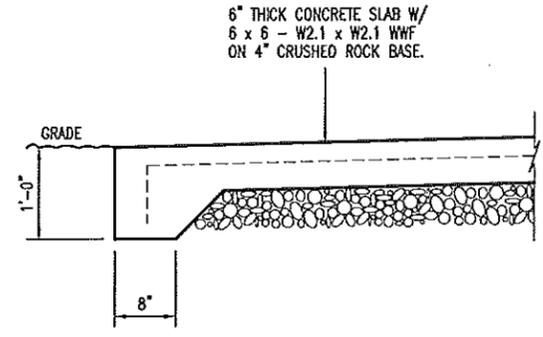
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DATE: 1-17-14
Sheet
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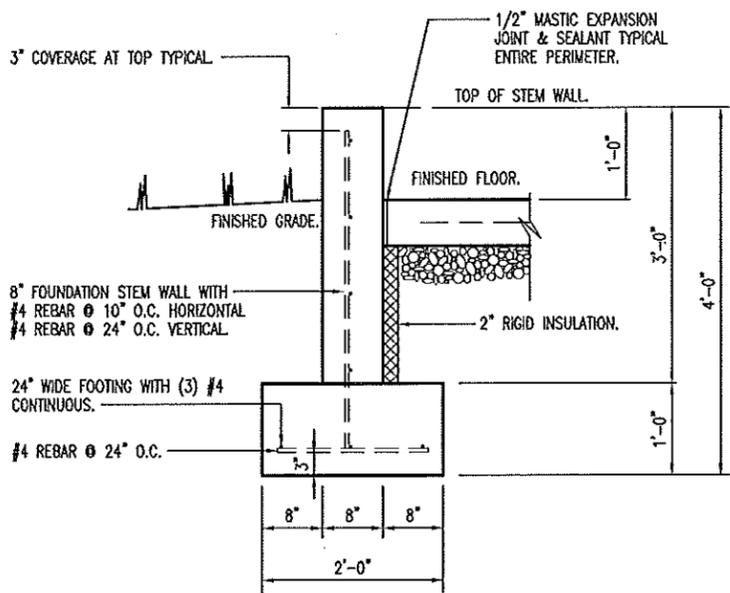
D
4
PASSAGE DOOR
EXTERIOR STEM WALL
SCALE: 1/2" = 1'-0"



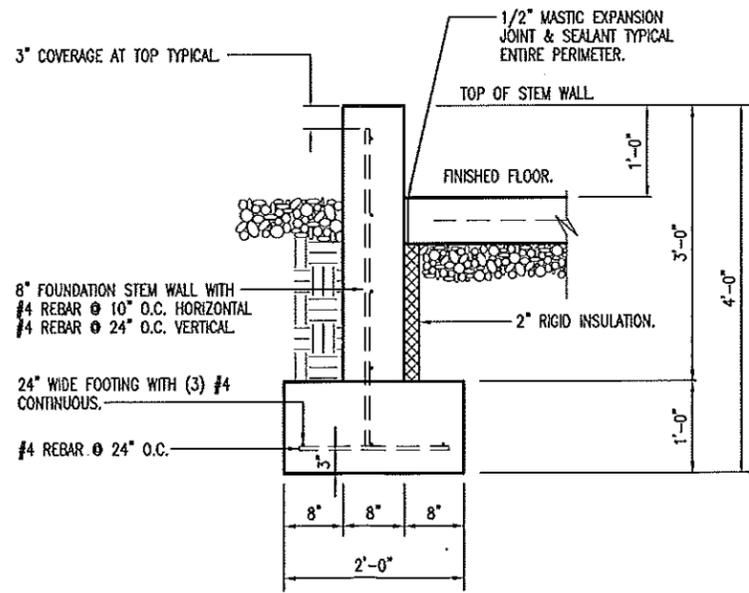
E
4
BOLLARD @ FOOTING DETAIL
SCALE: 1/2" = 1'-0"



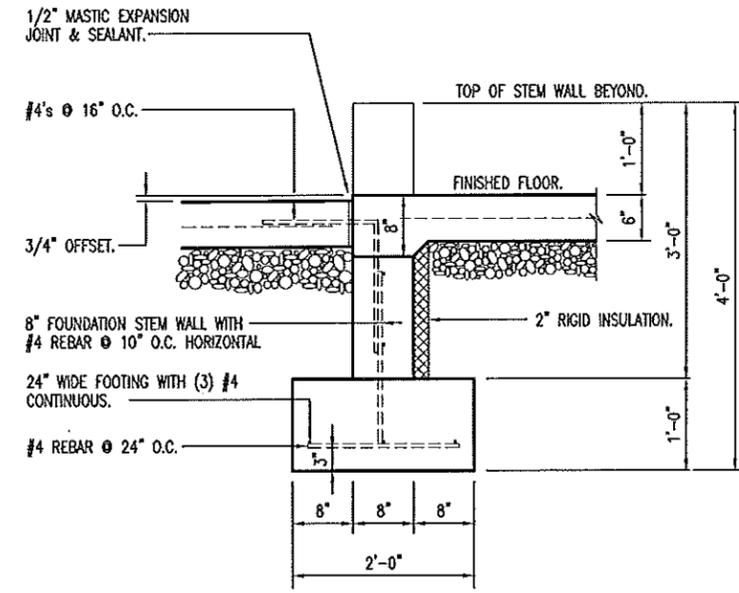
F
4
SIDEWALK SECTION
SCALE: 1/2" = 1'-0"



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



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



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

3/12/14
DOUGLAS A. RECORD
NUMBER A-2009002624
ARCHITECT

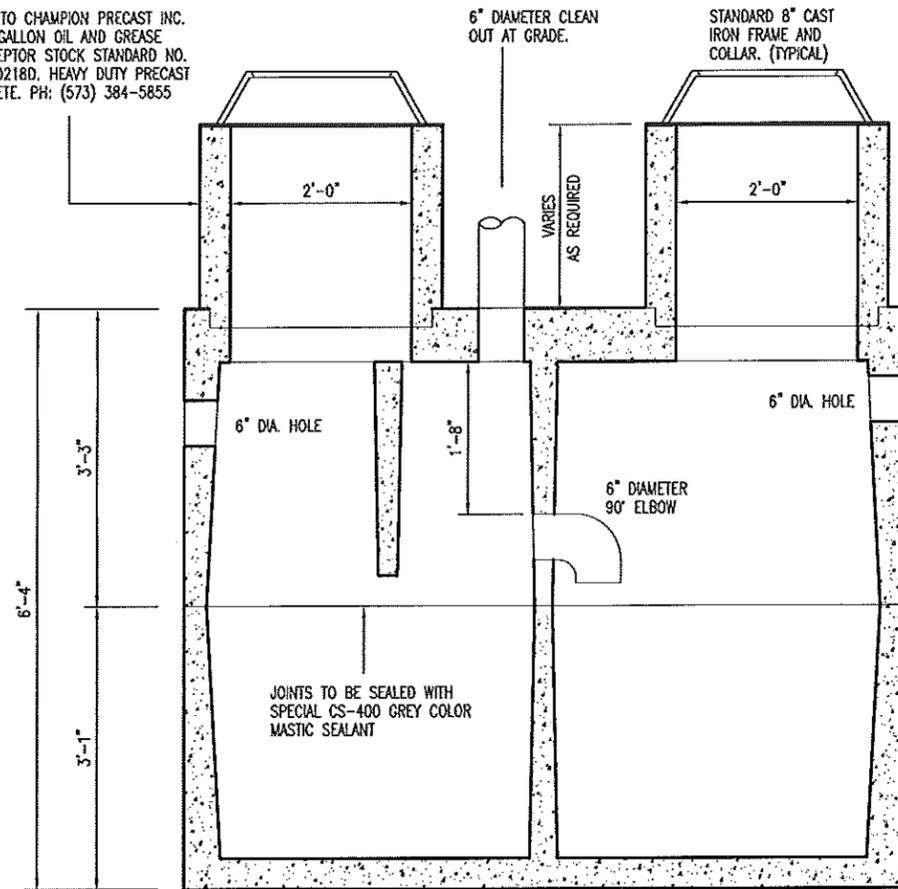
FOUNDATION DETAILS

MISSOURI DEPARTMENT OF TRANSPORTATION
DIVISION OF GENERAL SERVICES FACILITIES MANAGEMENT

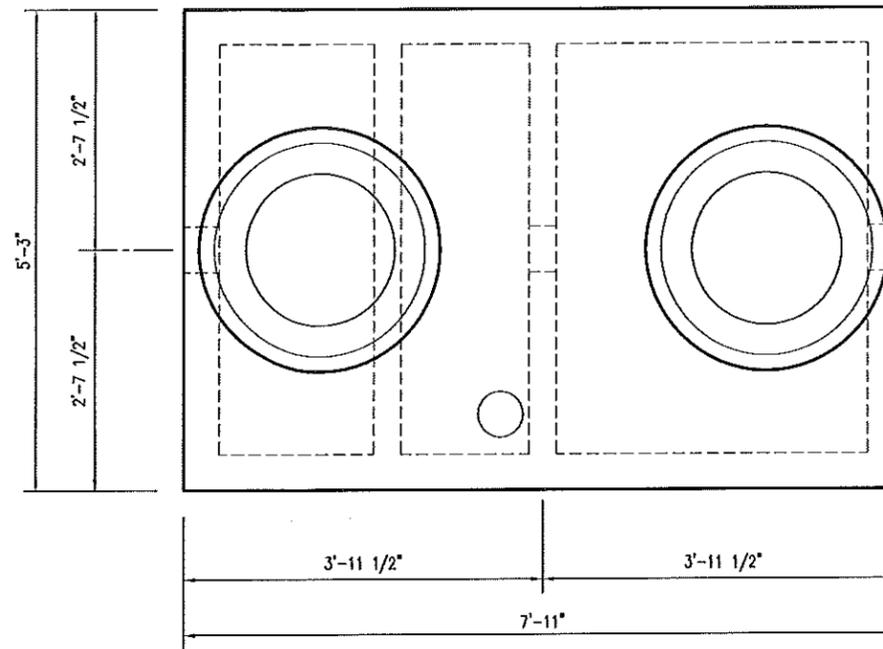
WARRENTON
Mechanics Bay & Cold Storage Building
Route MM 0.3 Miles West of Route U
Northeast District - Warren County

DESIGN BY: LARRY CARVER
DRAWN BY: LARRY CARVER
DATE: 1-17-14
Sheet 4 of 23

EQUAL TO CHAMPION PRECAST INC.
1,200 GALLON OIL AND GREASE
INTERCEPTOR STOCK STANDARD NO.
140-00218D. HEAVY DUTY PRECAST
CONCRETE. PH: (573) 384-5855

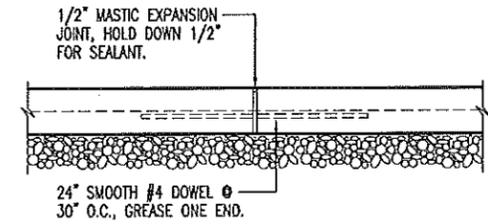


SECTION



PLAN VIEW

C
5 1,200 GALLON OIL SEPARATOR
SCALE: 1/2" = 1'-0"

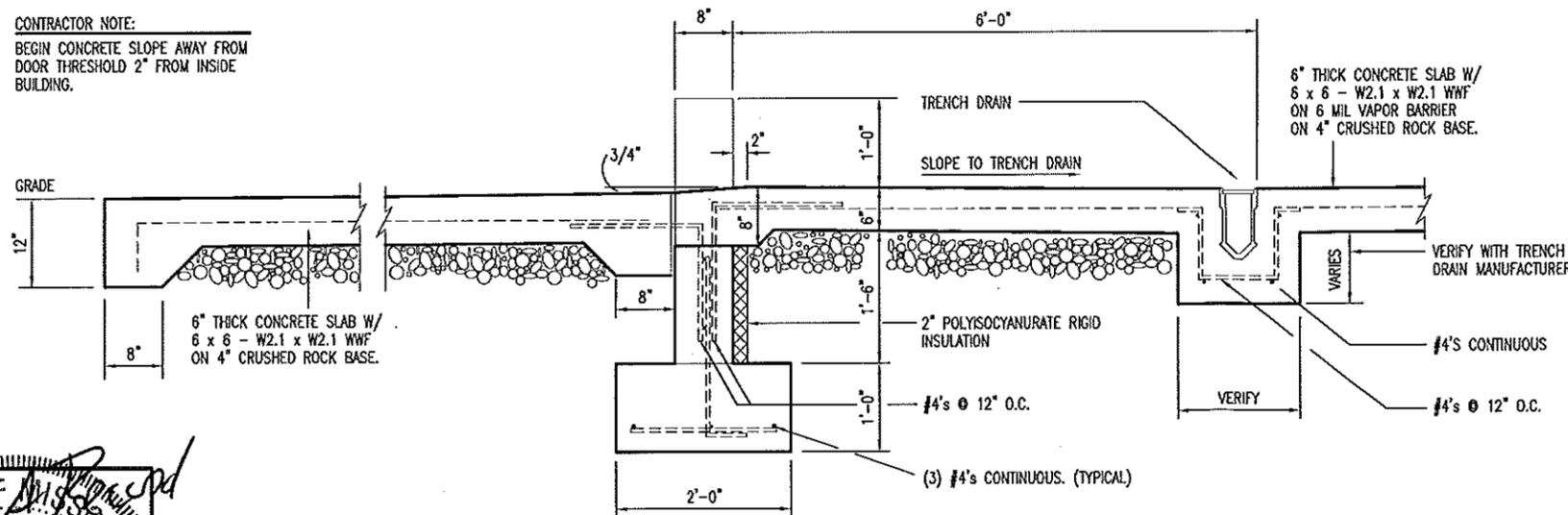


B
5 EXPANSION JOINT
SCALE: 1/2" = 1'-0"

CONCRETE NOTES

1. CONCRETE WORK SHALL BE EXECUTED IN STRICT COMPLIANCE WITH THE LATEST EDITION OF THE AMERICAN CONCRETE INSTITUTE (A.C.I.) MANUAL OF CONCRETE PRACTICE.
2. FOUNDATION DESIGN IS BASED UPON AN ASSUMED SOIL BEARING CAPACITY OF 2000 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" TO 5" SLUMP.
5. FOUNDATION PIERS AND FOOTINGS SHALL BEAR A MINIMUM OF 12 INCHES INTO UNDISTURBED SOIL AND 36 INCHES MINIMUM BELOW FINISH GRADE.
6. DEFORMED STEEL REINFORCING BARS SHALL BE: #4 AND LARGER ASTM A615 GRADE 60.
7. SEE SPECIFICATION SECTION 03300 CONCRETE FOR ADDITIONAL INFORMATION.
8. CONCRETE EXPOSED TO THE EXTERIOR SHALL RECEIVE AIR ENTRAINMENT 6% +/- 2%.
9. PROVIDE CORNER REINFORCING BARS WITH 12" MINIMUM LAP EQUAL IN SIZE AND GRADE TO CONNECTING BARS.
10. EXTERIOR CONCRETE FLATWORK SHALL HAVE A LIGHT BROOM FINISH.
11. COORDINATE WORK OF OTHER TRADES REQUIRED TO BE INSTALLED IN, UNDER, OR THROUGH CONCRETE PRIOR TO PLACEMENT OF CONCRETE. INSTALL ALL ANCHORAGES AND SLEEVES REQUIRED FOR THE INSTALLATION OF WORK BY OTHER TRADES.
12. ENTIRE PERIMETER OF BUILDING TO RECEIVE 2" POLYISOCYANURATE RIGID INSULATION BOARD.
13. SAWED CONTROL JOINTS SHALL BE CLEANED FREE OF ALL DEBRIS AND FILLED WITH SEALANT. SEE SECTION 07900.
14. ALL EXPOSED INTERIOR CONCRETE FLOORS SHALL RECEIVE A CURING/SEALING FINISH PER SPECIFICATION SECTION 03346.
15. COPPER PIPING RUN THROUGH CONCRETE WORK SHALL BE RUN THROUGH PVC SLEEVES.
16. PROVIDE PRE-CAST TRENCH DRAIN & CATCH BASIN AS SPECIFIED. INSTALL AS RECOMMENDED BY THE MANUFACTURER. ACTUAL CONSTRUCTION AND INSTALLATION MAY REQUIRE SOME FIELD MODIFICATIONS. ANY DEVIATION FROM THE DRAWINGS AND SPECIFICATIONS SHALL HAVE PRIOR APPROVAL FROM THE ARCHITECT OR BUILDING INSPECTOR.

CONTRACTOR NOTE:
BEGIN CONCRETE SLOPE AWAY FROM
DOOR THRESHOLD 2" FROM INSIDE
BUILDING.



A
5 APPROACH APRON
SCALE: 1/2" = 1'-0"

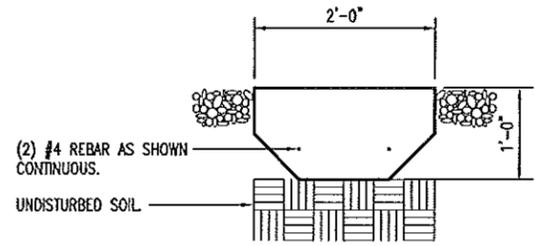
STATE OF MISSOURI
RECORD
DOUGLAS A.
NUMBER
A-2009002624
ARCHITECT
3/12/14

FOUNDATION DETAILS

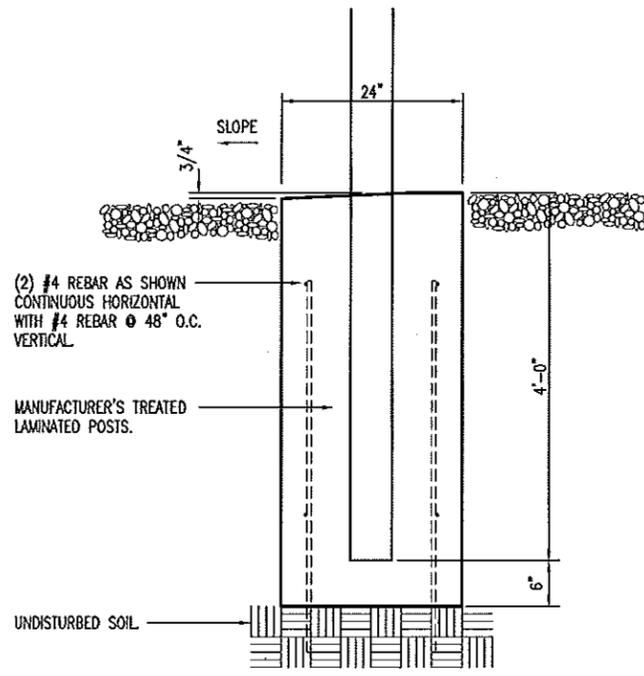
MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

WARRENTON
Mechanics Bay & Cold Storage Building
Route MM 0.3 Miles West of Route U
Northeast District - Warren County

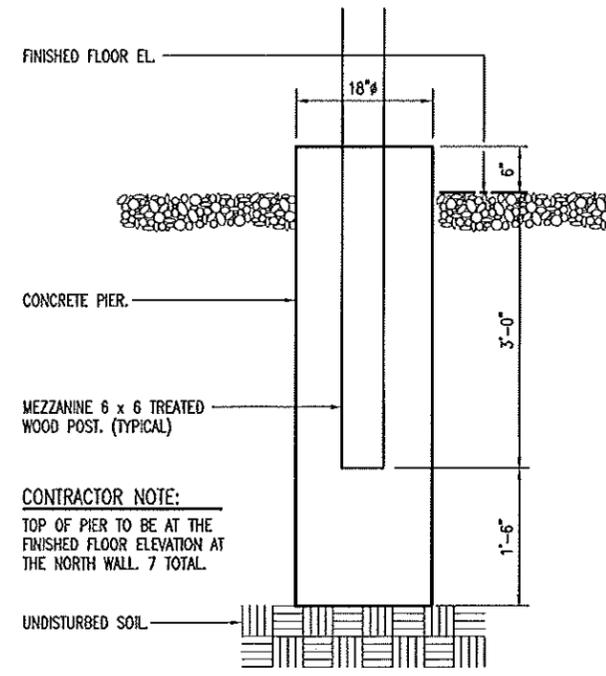
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DRAWN BY: LARRY CARVER
DATE: 1-17-14
Sheet
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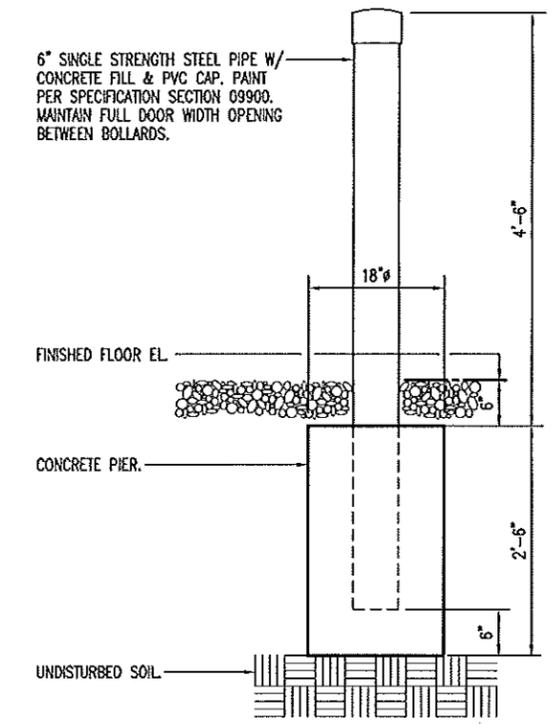
STAIR POST AND STRINGER
D
6 FOUNDATION DETAIL
 SCALE: 1/2" = 1'-0"



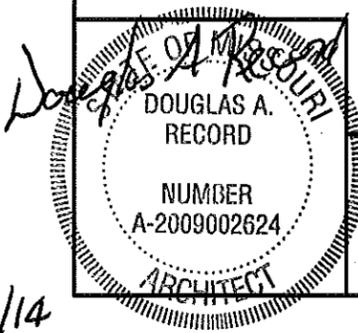
COLD STORAGE GARAGE DOOR THRESHOLD
A
6 FOUNDATION DETAIL
 SCALE: 1/2" = 1'-0"



12 TOTAL
B
6 PIER DETAIL
 SCALE: 1/2" = 1'-0"



105 COLD STORAGE - 11 TOTAL
C
6 BOLLARD ELEVATION
 SCALE: 1/2" = 1'-0"



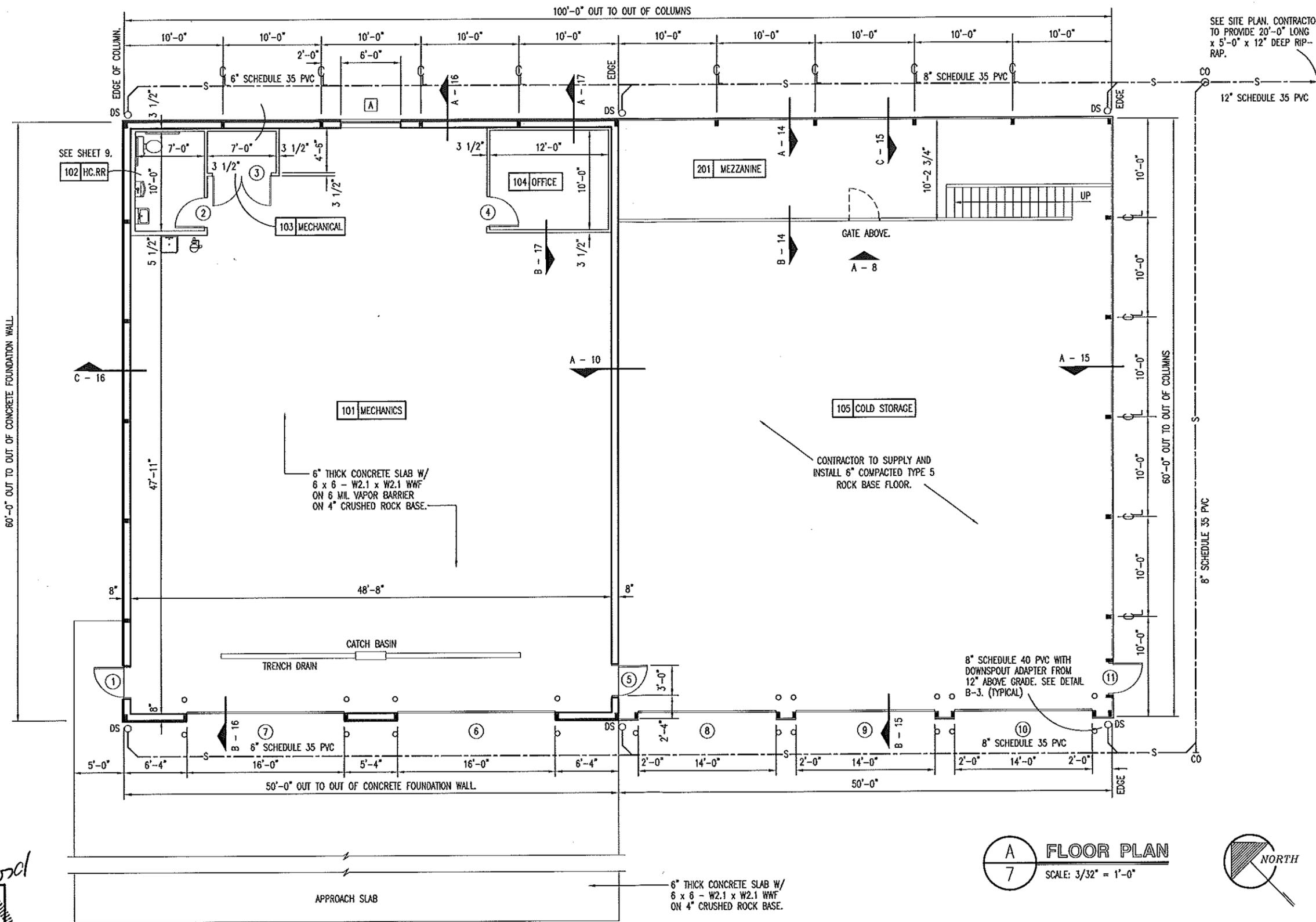
3/12/14

FOUNDATION DETAILS

MISSOURI DEPARTMENT
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 DIVISION OF GENERAL SERVICES
 FACILITIES MANAGEMENT

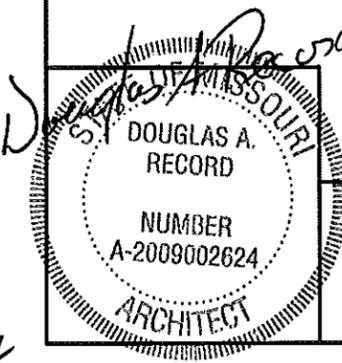
WARRENTON
 Mechanics Bay & Cold Storage Building
 Route MM 0.3 Miles West of Route U
 Northeast District - Warren County

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 DATE: 1-17-14
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SEE SITE PLAN, CONTRACTOR TO PROVIDE 20'-0" LONG x 5'-0" x 12" DEEP RIP-RAP.

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



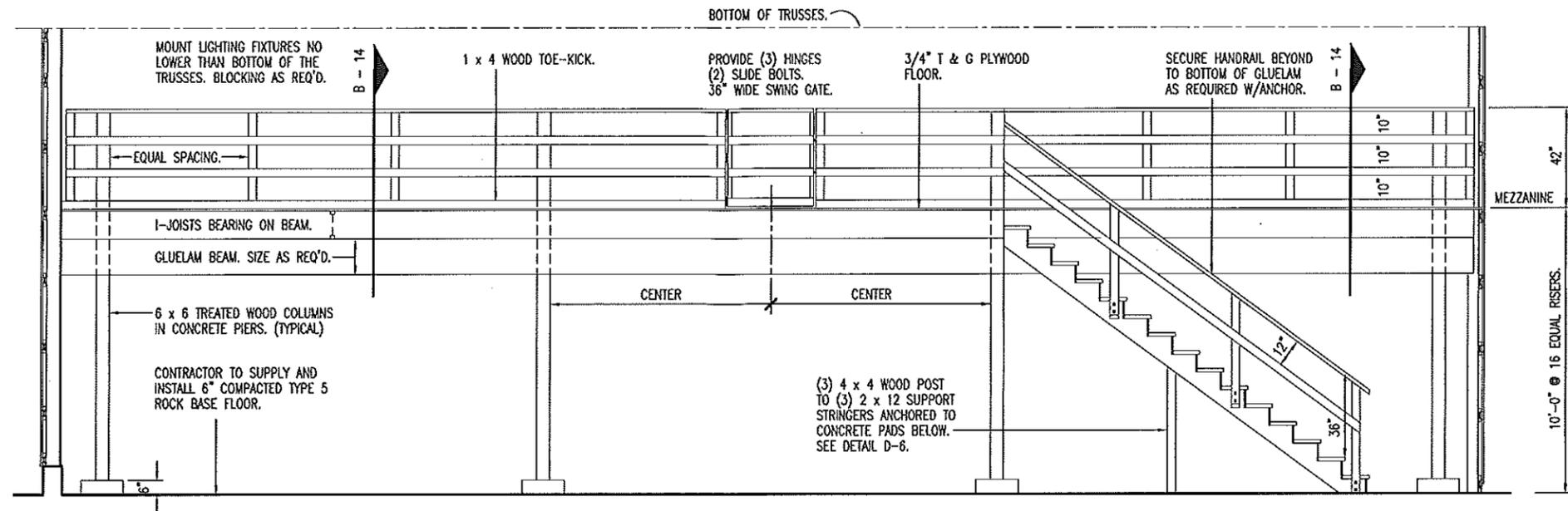
3/12/14

FLOOR PLAN

MISSOURI DEPARTMENT
OF TRANSPORTATION
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FACILITIES MANAGEMENT

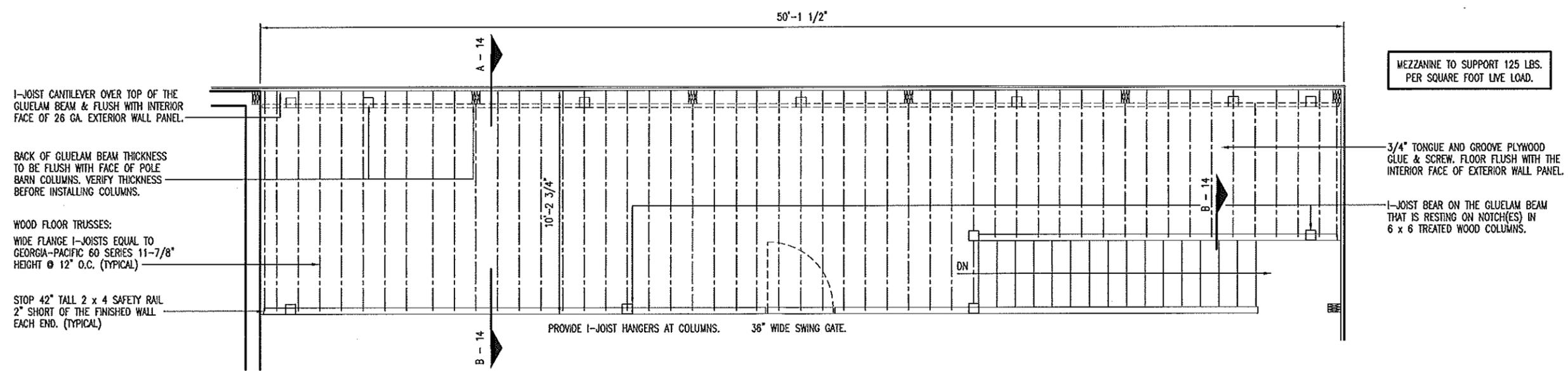
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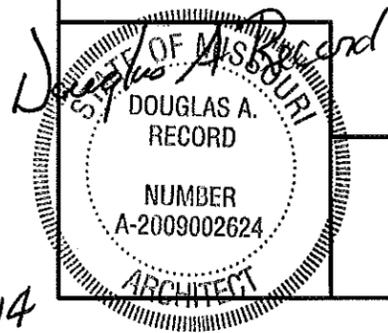
STAIR SYSTEM:
 (3) 2 x 12 STRINGERS.
 2 x 12 STAIR TREADS WITH 1\"/>

ELEVATION



MEZZANINE TO SUPPORT 125 LBS. PER SQUARE FOOT LIVE LOAD.

A
8
 MEZZANINE PLAN
 SCALE: 3/16\"/>



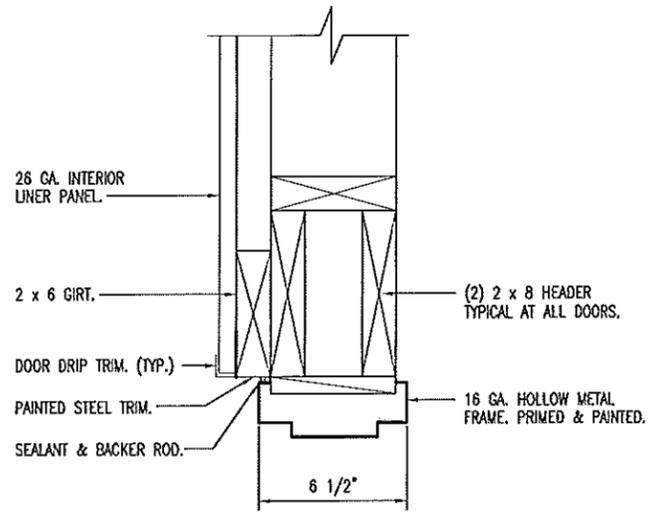
MEZZANINE PLAN

MISSOURI DEPARTMENT OF TRANSPORTATION
 DIVISION OF GENERAL SERVICES FACILITIES MANAGEMENT

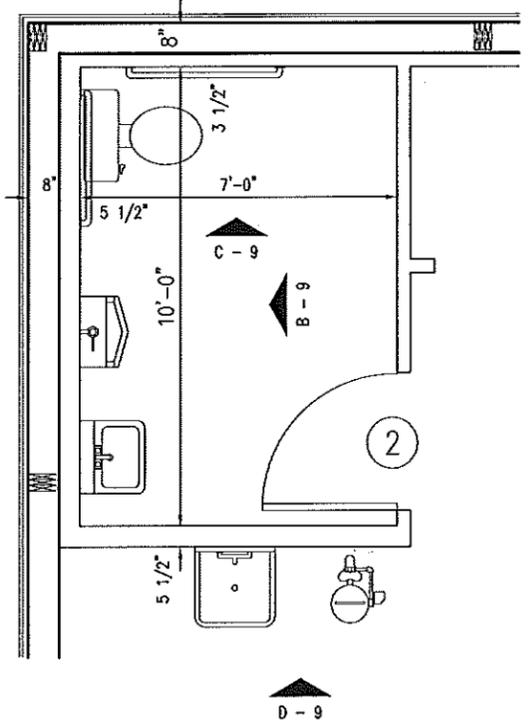
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 DRAWN BY: LARRY CARVER
 DATE: 1-17-14
 Sheet 8 of 23

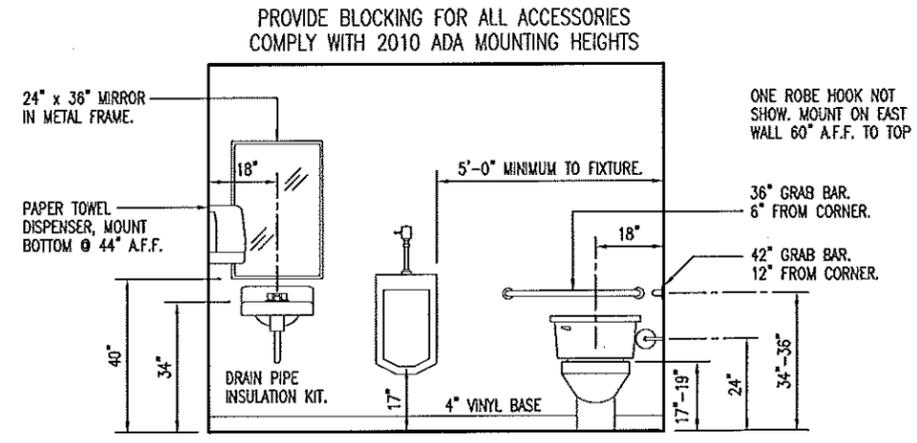
3/12/14



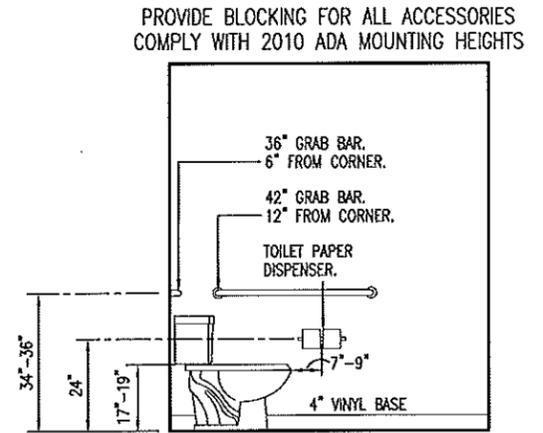
E DOOR HEADER/JAMB
SCALE: 1-1/2" = 1'-0"



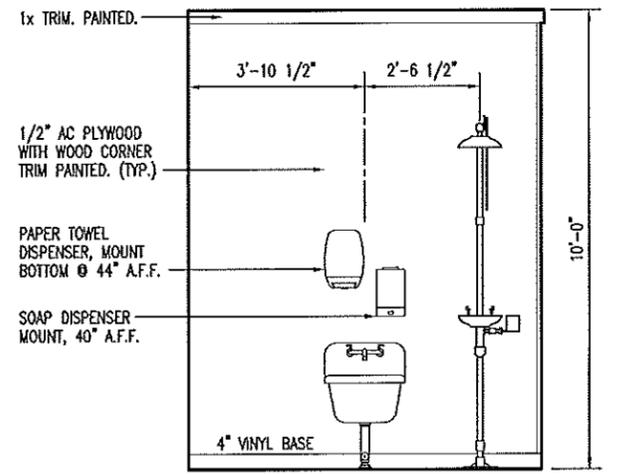
A ADA REST ROOM
SCALE: 1/4" = 1'-0"



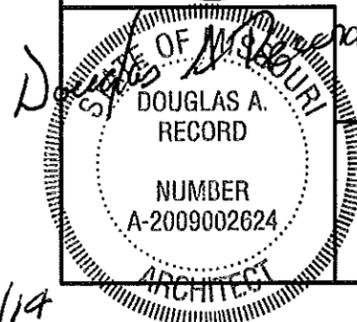
B WEST REST ROOM ELEVATION
SCALE: 1/2" = 1'-0"



C NORTH REST ROOM ELEVATION
SCALE: 1/4" = 1'-0"



D FIXTURE ELEVATION
SCALE: 1/4" = 1'-0"



3/12/14

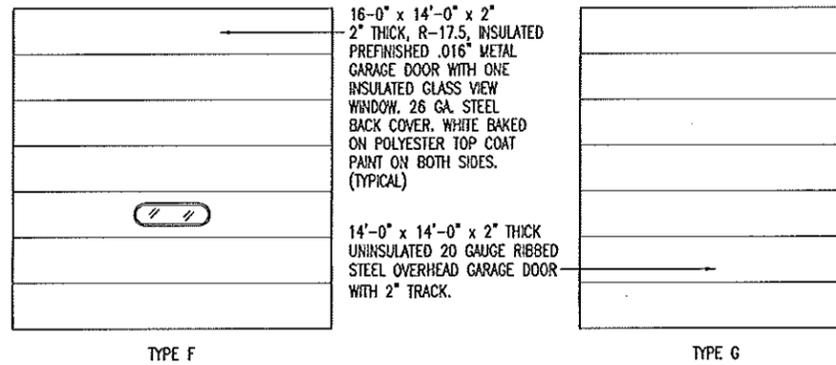
REST ROOM PLAN

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OF TRANSPORTATION
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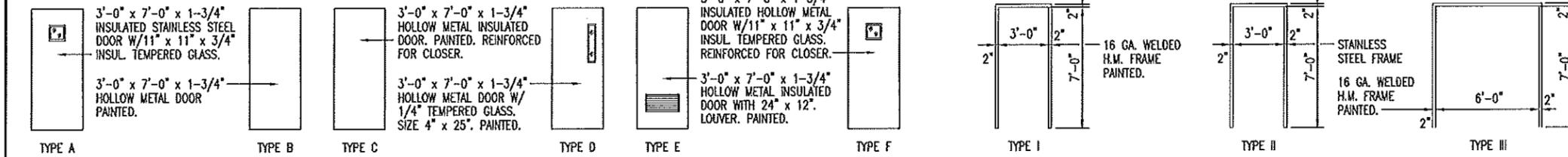
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| DOOR SCHEDULE | | | | | | | |
|---------------|----------------------------|-------|----------|-----------|----------|--------|------------|
| NO. | SIZE | SWING | DR. TYPE | FRM. TYPE | DETAIL | DEPTH | HDWR. GRP. |
| 1 | 3'-0" x 7'-0" x 1-3/4" | LHR | A | II | C-13 | 6-1/2" | 1 |
| 2 | 3'-0" x 7'-0" x 1-3/4" | LH | B | I | E-13 | 6-1/2" | 2 |
| 3 | (2) 3'-0" x 7'-0" x 1-3/4" | RHR | E | III | E-13 | 6-1/2" | 3 |
| 4 | 3'-0" x 7'-0" x 1-3/4" | RH | D | I | E-13 | 6-1/2" | 4 |
| 5 | 3'-0" x 7'-0" x 1-3/4" | RHR | C | I | D-13 | 6-1/2" | 5 |
| 6 | 16'-0" x 14'-0" x 2" | - | F | - | A & B-13 | - | - |
| 7 | 16'-0" x 14'-0" x 2" | - | F | - | A & B-13 | - | - |
| 8 | 14'-0" x 14'-0" x 2" | - | G | - | G & H-13 | - | - |
| 9 | 14'-0" x 14'-0" x 2" | - | G | - | G & H-13 | - | - |
| 10 | 14'-0" x 14'-0" x 2" | - | G | - | G & H-13 | - | - |
| 11 | 3'-0" x 7'-0" x 1-3/4" | RHR | F | I | E-9 | 6-1/2" | 6 |



| WINDOW SCHEDULE | |
|--|--|
| 6'-0" x 3'-0" ALUMINUM DOUBLE HORIZONTAL SLIDER WITH SECURITY SCREEN. | SEE DETAIL F-13. SILL HEIGHT: 48" A.F.F. |

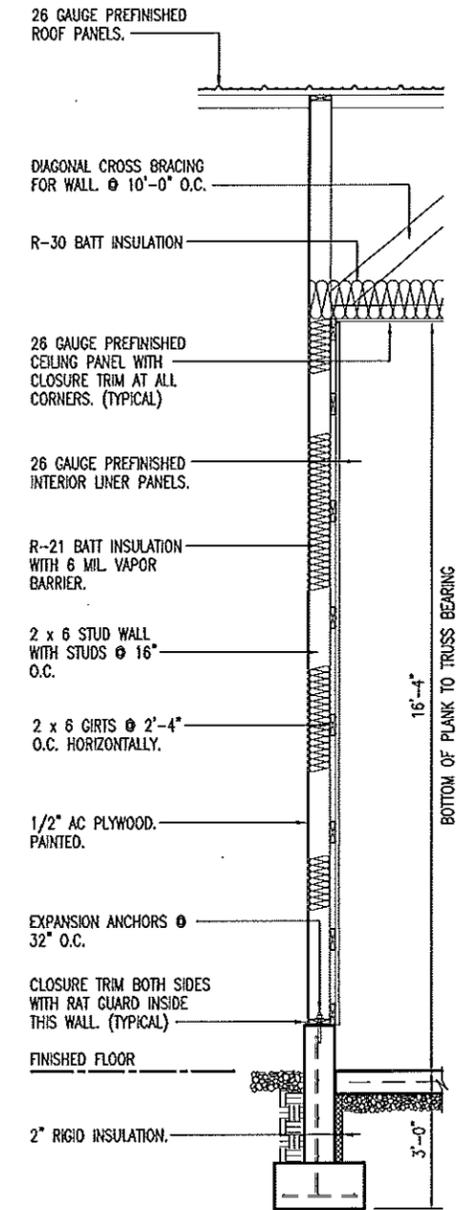


| FINISH SCHEDULE | | | | | | | | | | | | | | | | |
|-----------------|-----------------------|---------------------|------------------------------|---------------------------|-------------------------|-------------------------|---|-----------------------------|---------------------|-----------|--|------|------------------------|------|--|---|
| NO. | ROOM | FLOOR | | WALLS | | | | BASE | | CEILING | | | | | | |
| | | 3/4" T & G PLYWOOD. | CURE AND SEALER ON CONCRETE. | 6" COMPACTED TYPE 5 ROCK. | 26 GA. EXTERIOR PANELS. | 26 GA. INTERIOR PANELS. | 1/2" AC PLYWOOD ON EXTERIOR OF OFFICE RR OR MECHANICAL. | 5/8" GYPSUM BOARD. PAINTED. | PAINTED ON PLYWOOD. | 4" VINYL. | 4" VINYL ON EXTERIOR OF OFFICE RR OR MECHANICAL. | NONE | 26 GA. CEILING PANELS. | NONE | ACOUSTICAL CEILING TILE @ 8'-0" A.F.F. | |
| 101 | MECHANICS | | • | | • | • | • | • | • | • | • | • | • | • | • | • |
| 102 | HANDICAPPED REST ROOM | | • | | • | • | • | • | • | • | • | • | • | • | • | • |
| 103 | MECHANICAL | | • | | • | • | • | • | • | • | • | • | • | • | • | • |
| 104 | OFFICE | | • | | • | • | • | • | • | • | • | • | • | • | • | • |
| 105 | COLD STORAGE | | • | | • | • | • | • | • | • | • | • | • | • | • | • |
| 201 | MEZZANINE | • | | | • | • | • | • | • | • | • | • | • | • | • | • |

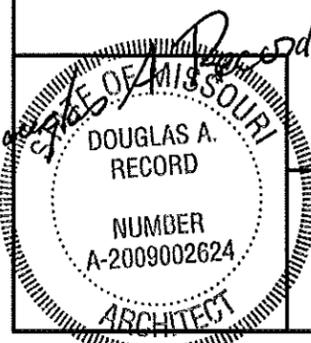
| HVAC SCHEDULE | | | | | | |
|---------------|--|--|--|-------------|---------|--|
| SYM. | UNIT | MANUFACTURER | BTU OUTPUT | FUEL | VOLTAGE | REMARKS |
| A | 36" x 36" SHUTTER MOUNT EXHAUST FAN WITH WEATHERHOOD | DAYTON 1HLB6 & 1WBW2 OR EQUAL 6.4 AMPS | 6,480 CFM | ELECTRIC | 115 | COMMERCIAL TYPE BELT DRIVE WALL EXHAUST FAN INCLUDING OSHA GUARD AND SHUTTER. |
| B | MOTORIZED DAMPER WITH WEATHERHOOD | DAYTON MODEL 3C728 & 1WBW1 OR EQUAL .37 AMPS | -- | ELECTRIC | 115 | 30" MEDIUM GRADE, MOTORIZED, GALVANIZED STEEL DAMPER WITH 1HP MOTOR. WIRE TO OPEN WHEN EXHAUST FAN IS TURNED ON. |
| C | GAS FIRED UNIT HEATER | REZNOR MODEL UDAP 225 OR EQUAL | 186,750 | NATURAL GAS | 115 | SINGLE BURNER COMBUSTION, DIRECT SPARK IGNITION, 100% LOCK-OUT & CL-1 STANDARD HEATING ONLY THERMOSTAT. |
| D | SHUTTER-MOUNT EXHAUST FAN | DAYTON MODEL 1HKL9 & 6HKV6 COVER OR EQUAL | 140 CFM | ELECTRIC | 115 | 7" DIAMETER PROPELLER, VERTICAL MOUNT, OSHA GUARD, 1.5 AMP MOTOR AND MAGNETIC LOUVER. INSULATED FAN COVER. |
| E | ELECTRIC UNIT HEATER | QMARK MODEL CWH1101DS OR EQUAL | 1706 | ELECTRIC | 120 | INCLUDE CWH2S-2 FOR SEMI RECESSED, INCLUDE LOUVER GRILLE, WITH A BUILT-IN THERMOSTAT. WIRE FOR 500 WATTS, 4.2 AMP. |
| F | FRIGIDAIRE PTAC HEAT PUMP WITH BACKUP ELECT. HEAT | FRP90ETT2R SILENT DESIGN 30 AMP FUSE. | COOL 14.6K HEAT 13.9K HEAT P 13.6K | ELECTRIC | 208/230 | INCLUDE WALL SLEEVE & OUTDOOR GRILLE COOL 7.5 AMPS, HEAT PUMP 6.2 AMPS. ELECTRIC HEATER 20.5 AMPS. DRAIN OUTSIDE. |

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.



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



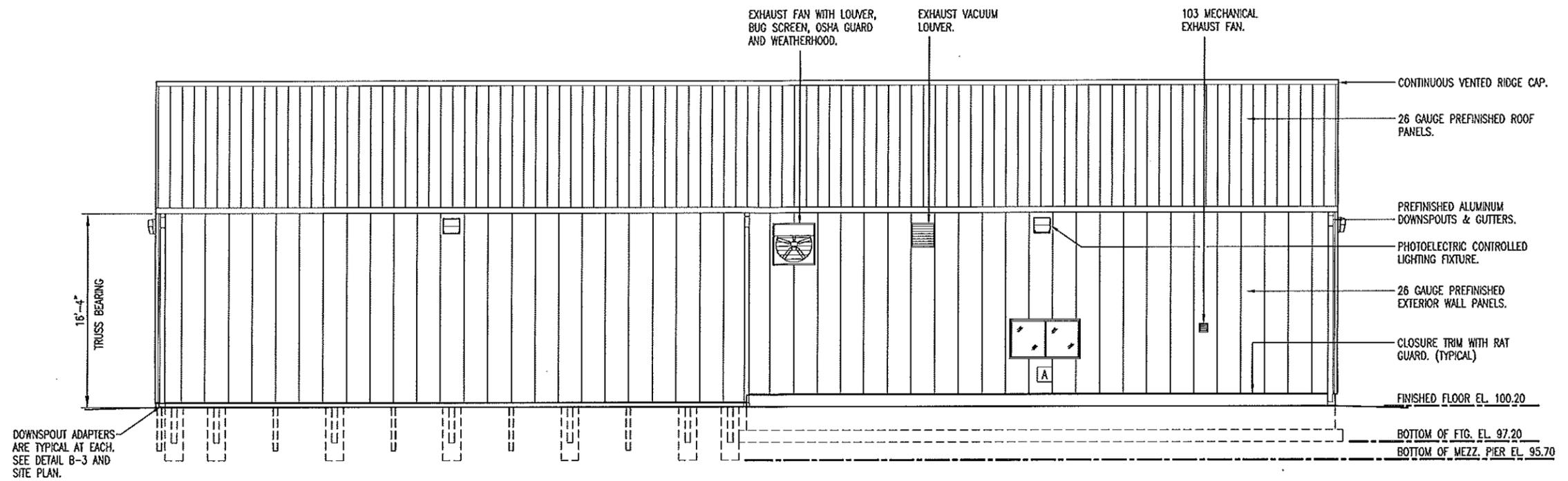
SCHEDULES

MISSOURI DEPARTMENT OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

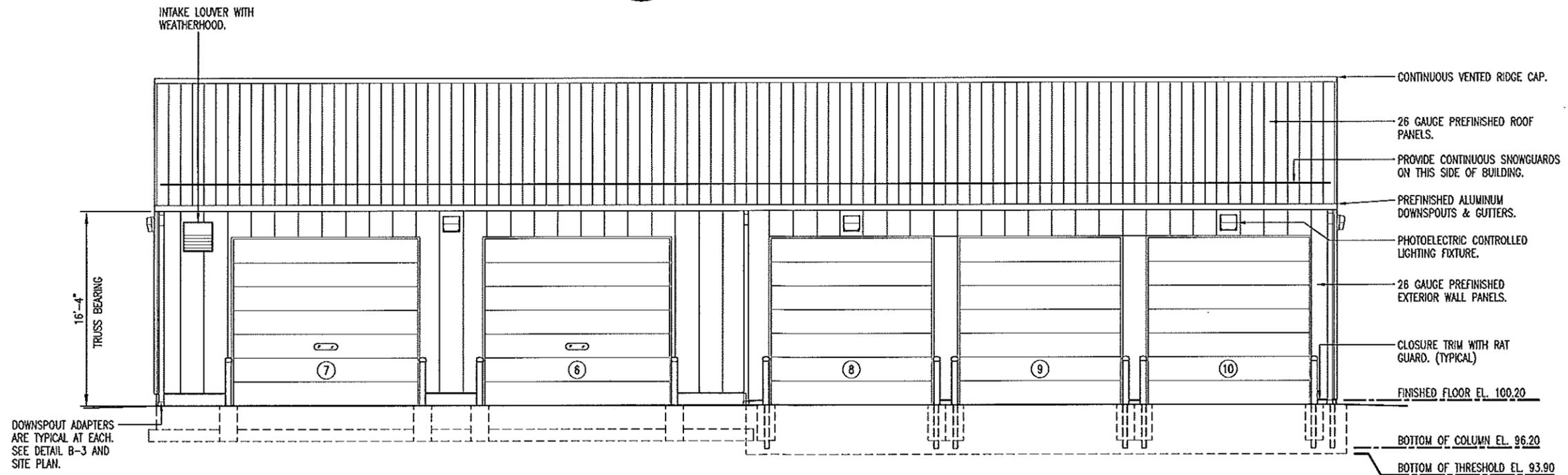
WARRENTON
Mechanics Bay & Cold Storage Building
Route MM 0.3 Miles West of Route U
Northeast District - Warren County

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DRAWN BY: LARRY CARVER
DATE: 3-12-14
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B
11 **NORTH ELEVATION**
SCALE: 3/32" = 1'-0"



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

STATE OF MISSOURI
DOUGLAS A. RECORD
NUMBER
A-2009002624
ARCHITECT

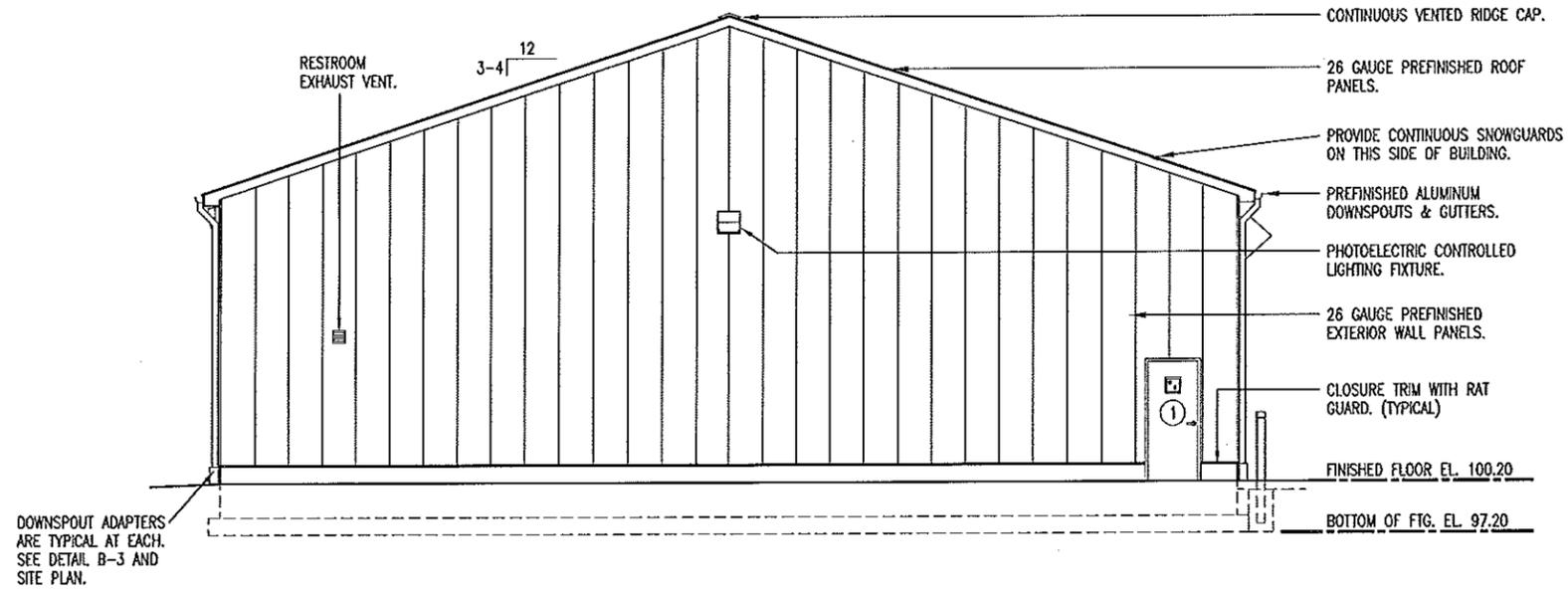
3/12/14

NORTH & SOUTH ELEVATIONS

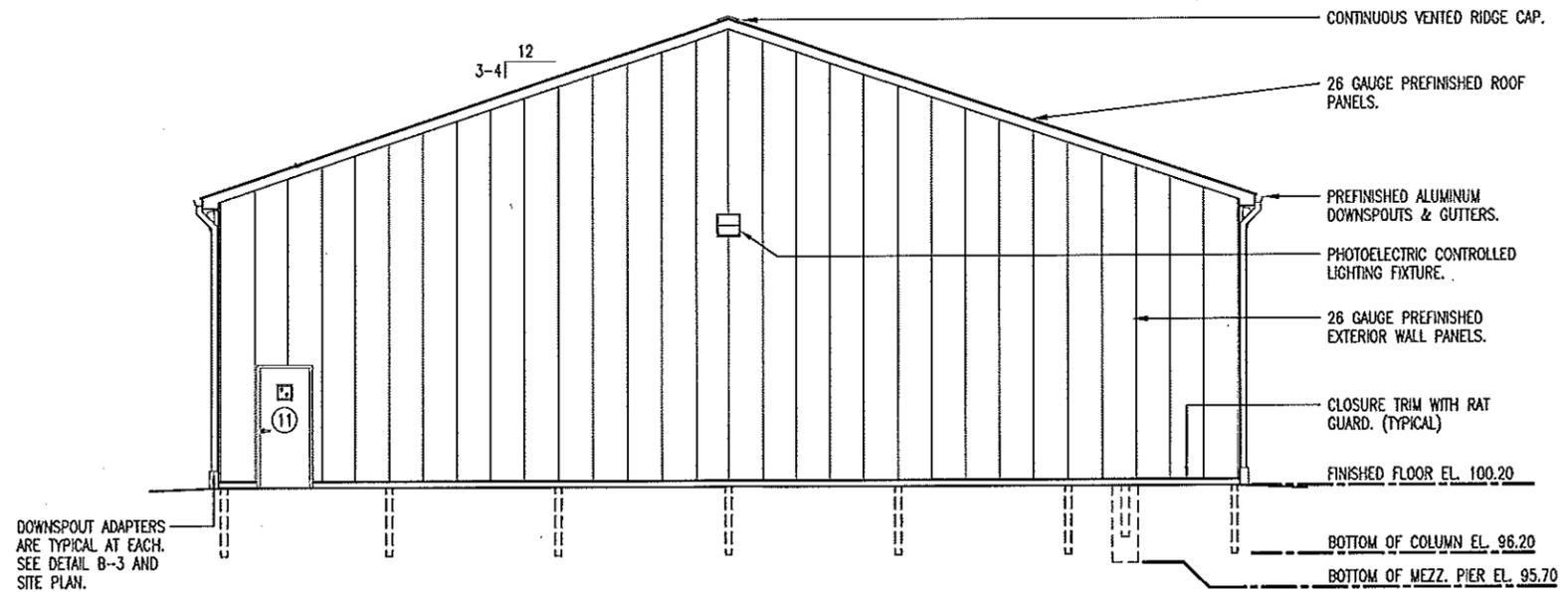
**MISSOURI DEPARTMENT
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WARRENTON
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Route MM 0.3 Miles West of Route U
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B WEST ELEVATION
SCALE: 3/32" = 1'-0"



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

Joseph A. Record
STATE OF MISSOURI
DOUGLAS A. RECORD
NUMBER A-2009002624
ARCHITECT

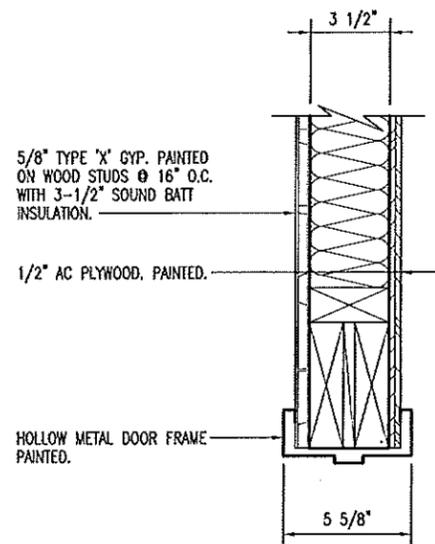
EAST & WEST ELEVATIONS

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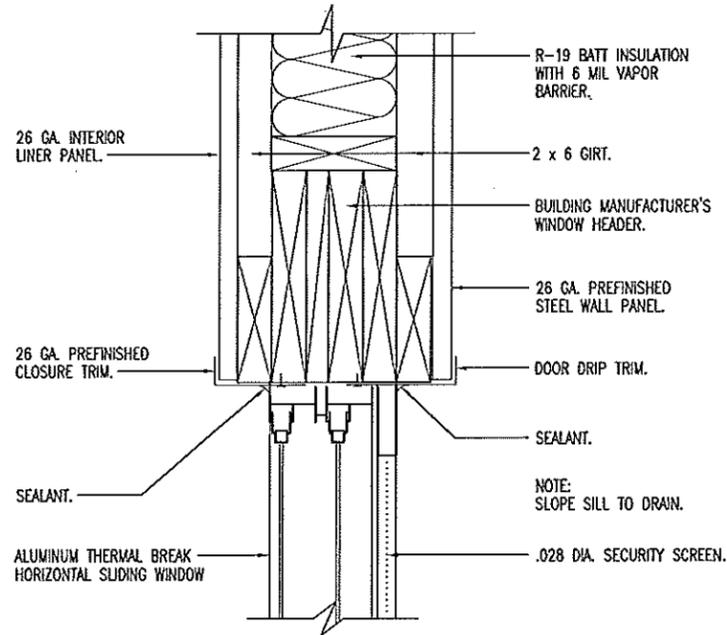
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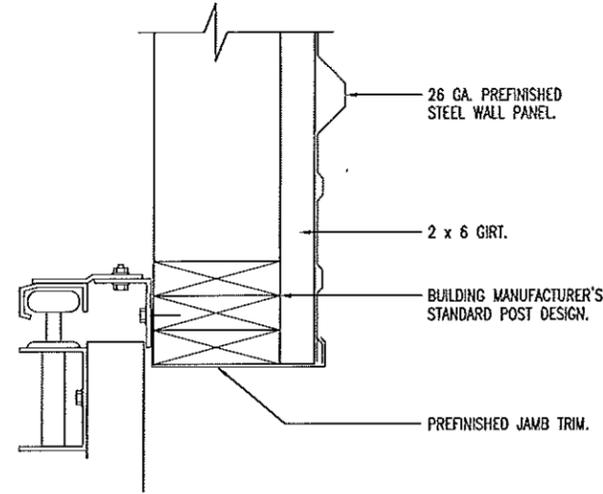
3/12/14



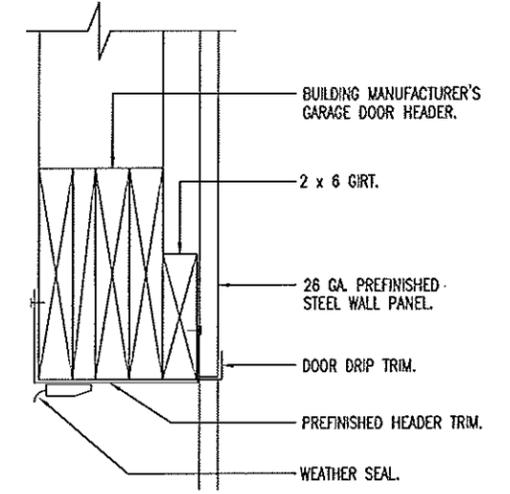
E JAMB SIMILAR DOOR HEAD
13 SCALE: 1-1/2" = 1'-0"



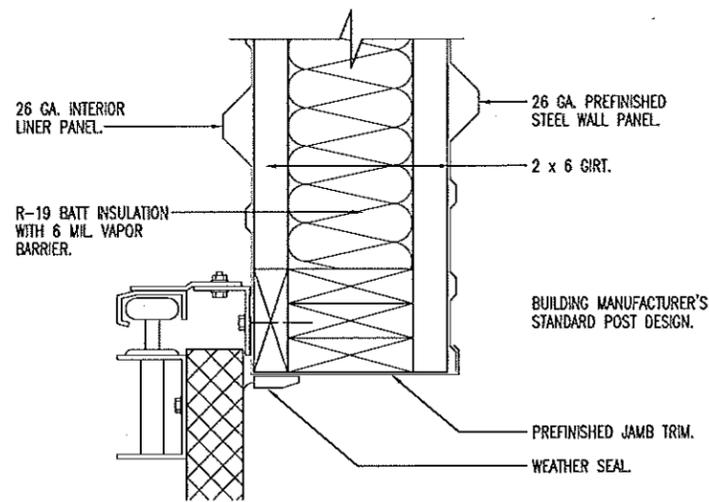
F JAMB & SILL SIMILAR WINDOW HEAD
13 SCALE: 1-1/2" = 1'-0"



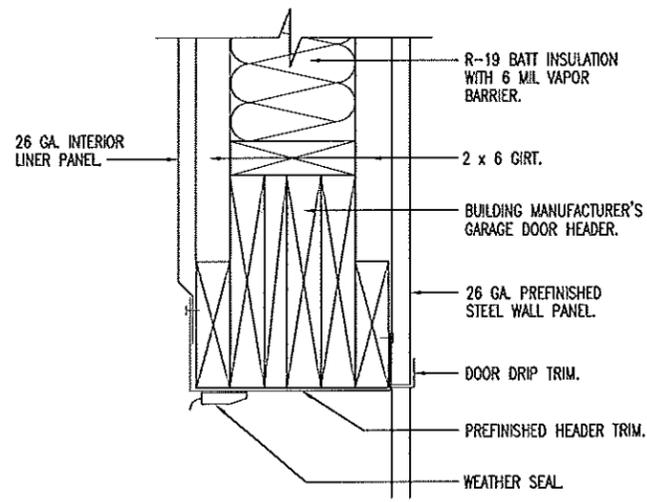
G GARAGE DOOR JAMB
13 SCALE: 1-1/2" = 1'-0"



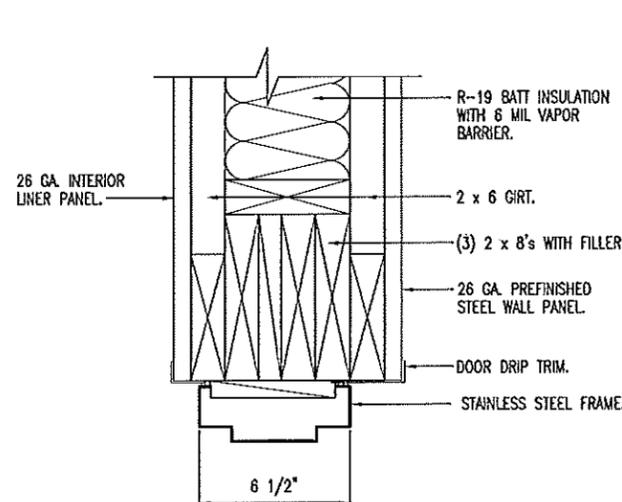
H GARAGE DOOR HEAD
13 SCALE: 1-1/2" = 1'-0"



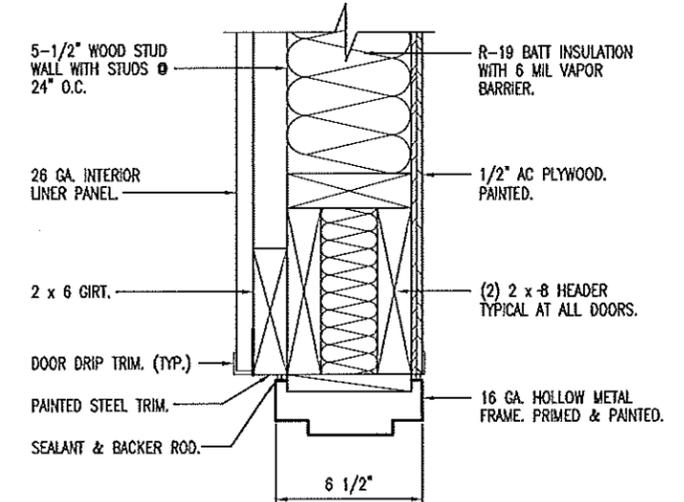
A GARAGE DOOR JAMB
13 SCALE: 1-1/2" = 1'-0"



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



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



D DOOR HEADER/JAMB
13 SCALE: 1-1/2" = 1'-0"

3/12/14
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 DOUGLAS A. RECORD
 NUMBER
 A-2009002624
 ARCHITECT

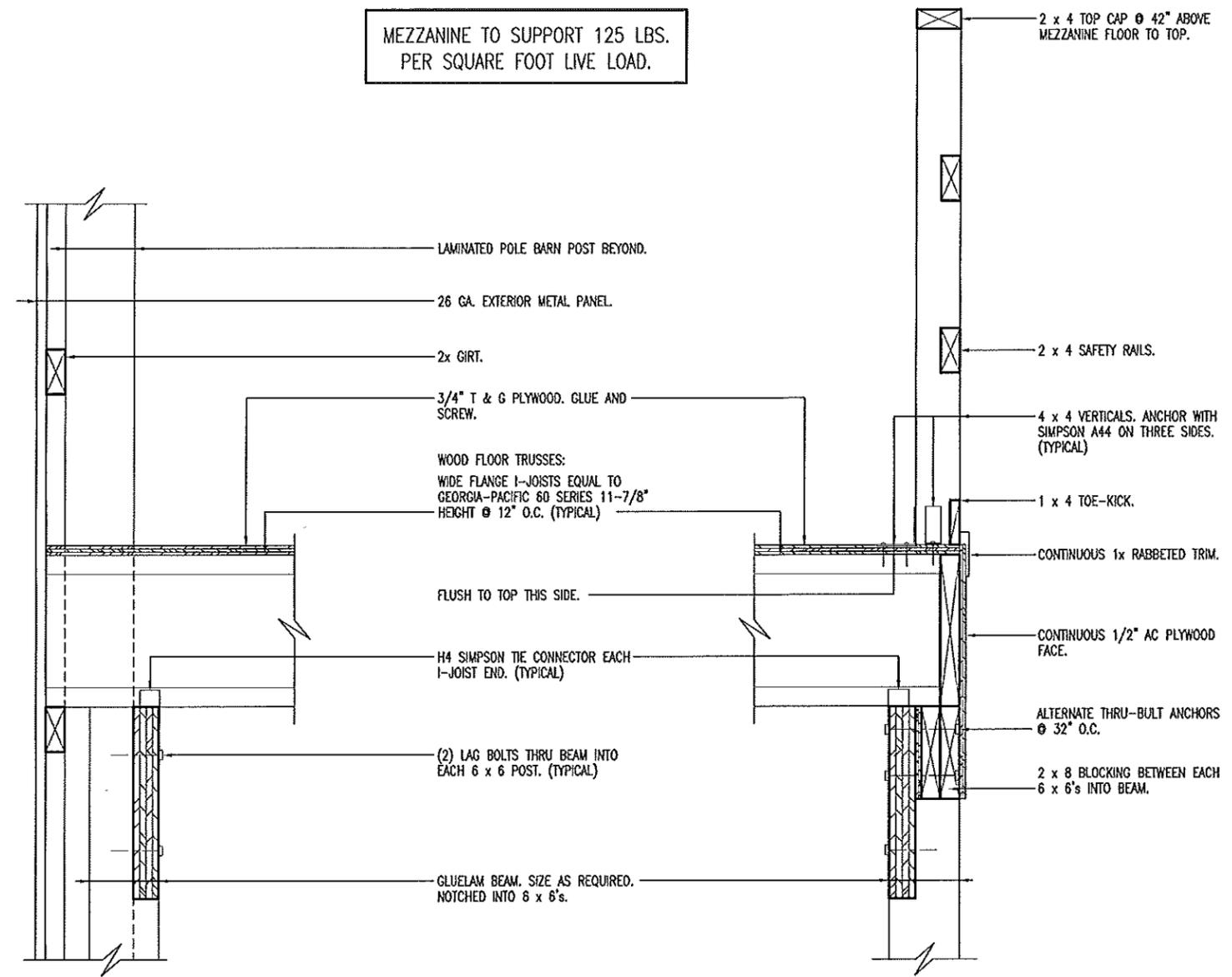
HEAD & JAMB DETAILS

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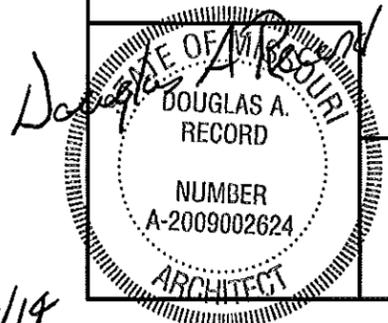
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 DATE: 1-17-14
 Sheet
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MEZZANINE TO SUPPORT 125 LBS.
PER SQUARE FOOT LIVE LOAD.



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

B SAFETY RAIL
DETAIL
14 SCALE: 1" = 1'-0"



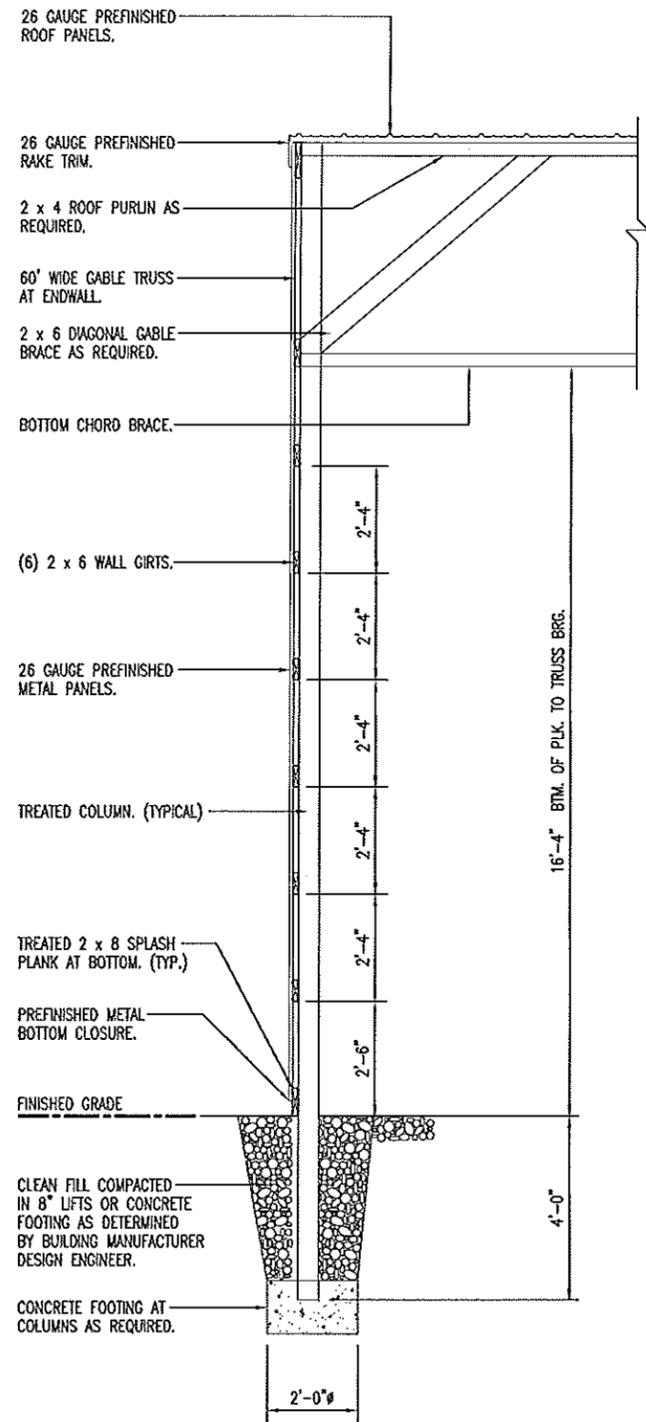
MEZZANINE DETAILS

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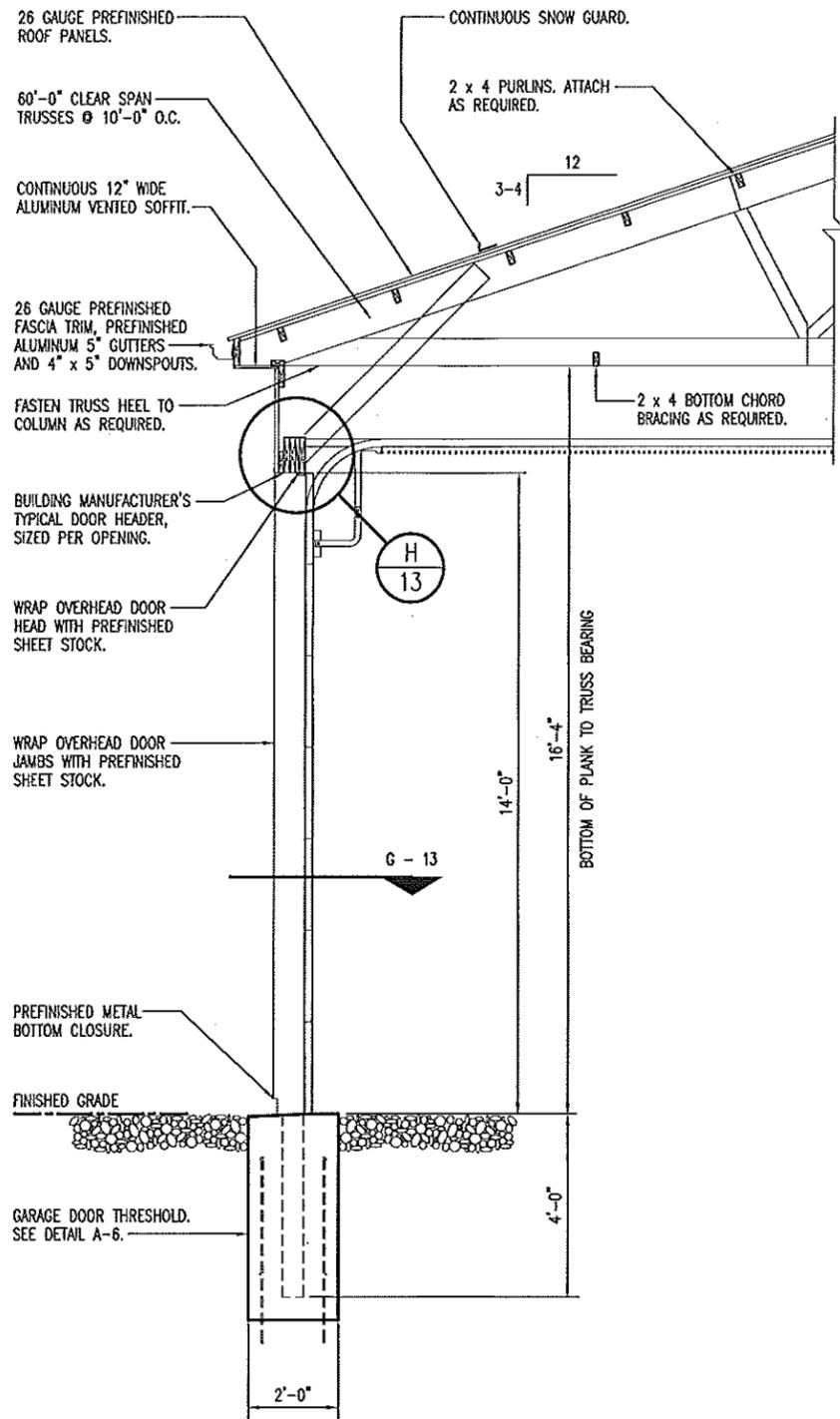
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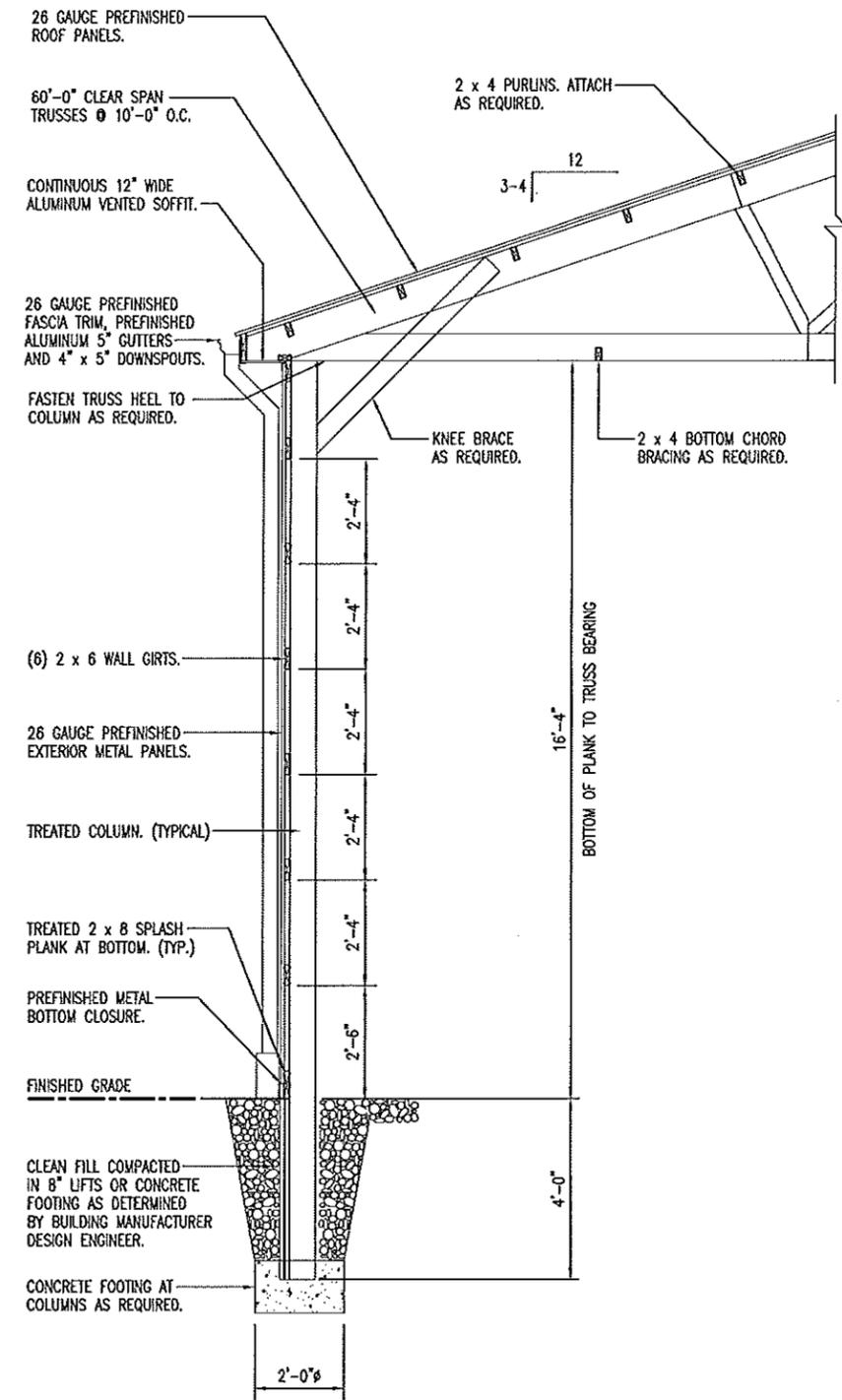
3/12/14



A
15
ENDWALL SECTION
SCALE: 1/4" = 1'-0"



B
15
OPEN OVERHEAD DOOR SECTION
SCALE: 1/4" = 1'-0"



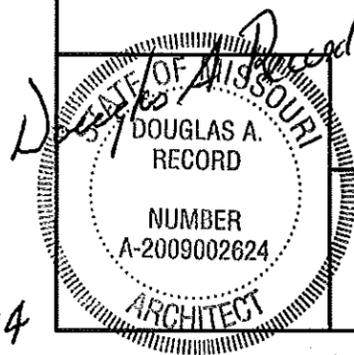
C
15
SHOWN WITHOUT MEZZANINE.
SIDEWALL SECTION
SCALE: 1/4" = 1'-0"

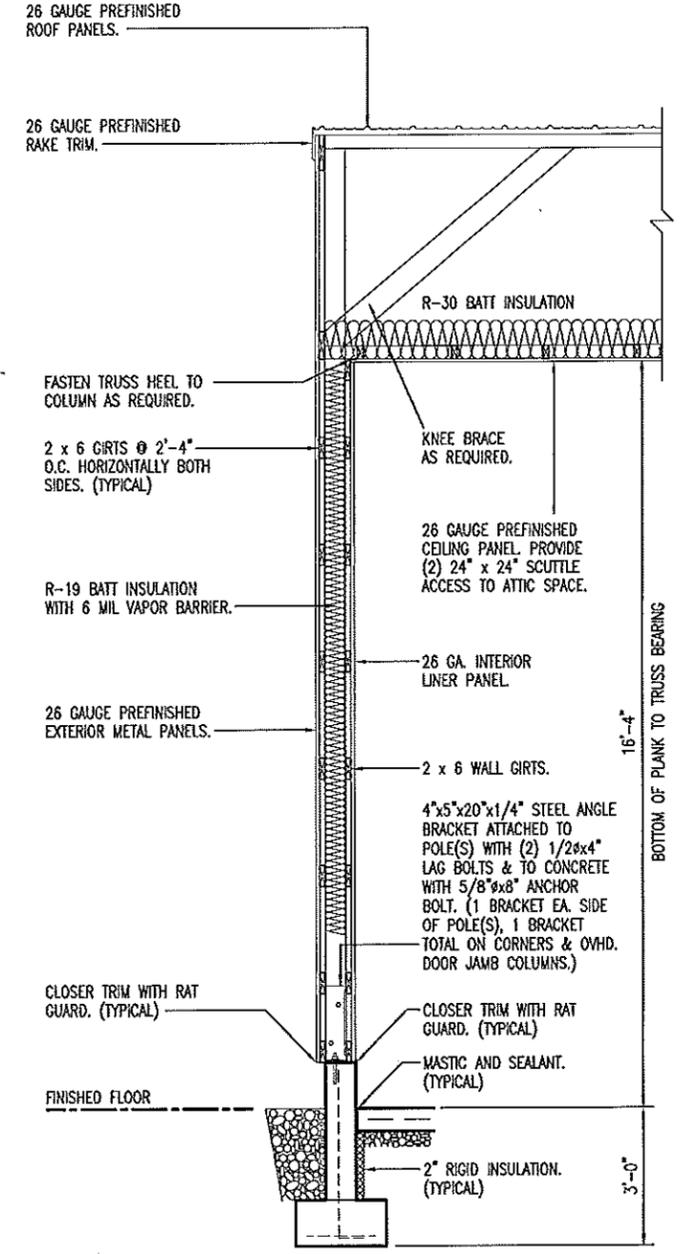
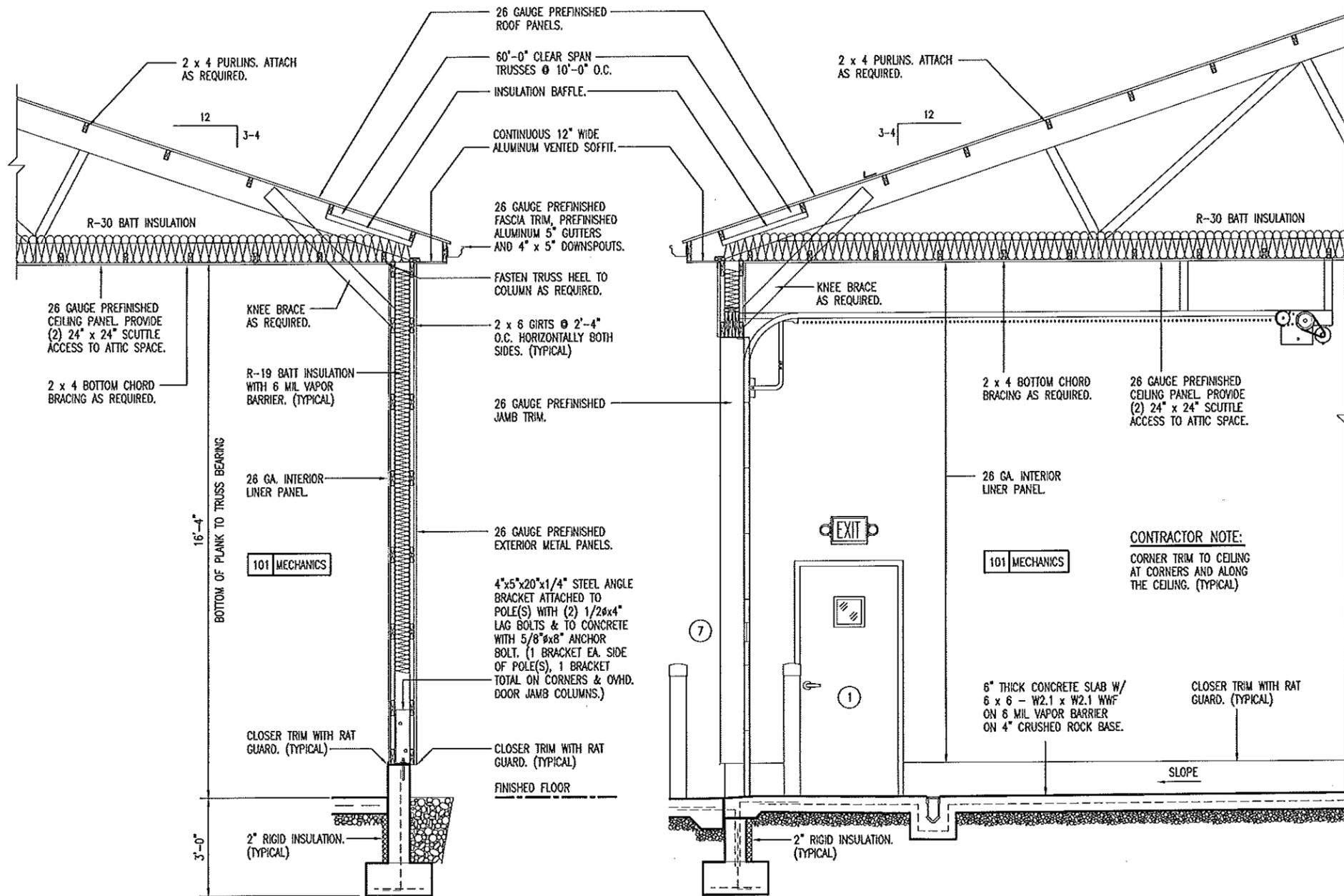
WALL SECTIONS

MISSOURI DEPARTMENT
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WARRENTON
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Route MM 0.3 Miles West of Route U
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A SIDEWALL SECTION
16 SCALE: 1/4" = 1'-0"

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

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



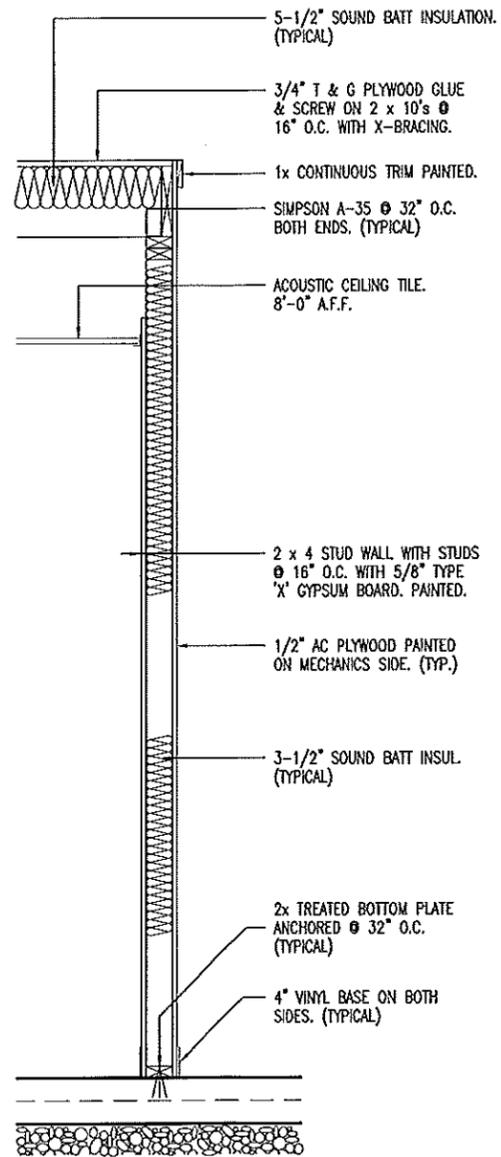
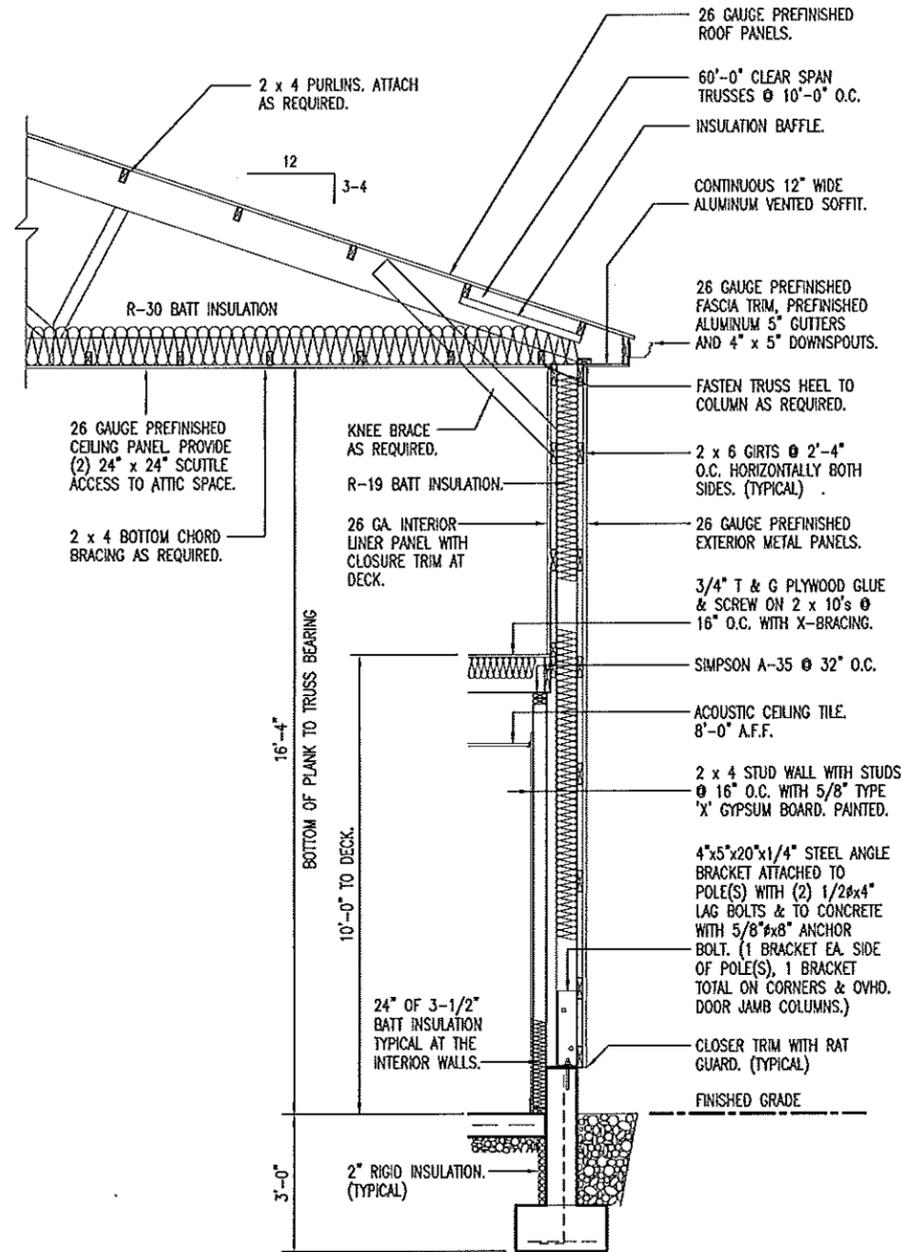
WALL SECTIONS

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

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

MISSOURI ARCHITECT
DOUGLAS A. RECORD
NUMBER A-2009002624
ARCHITECT

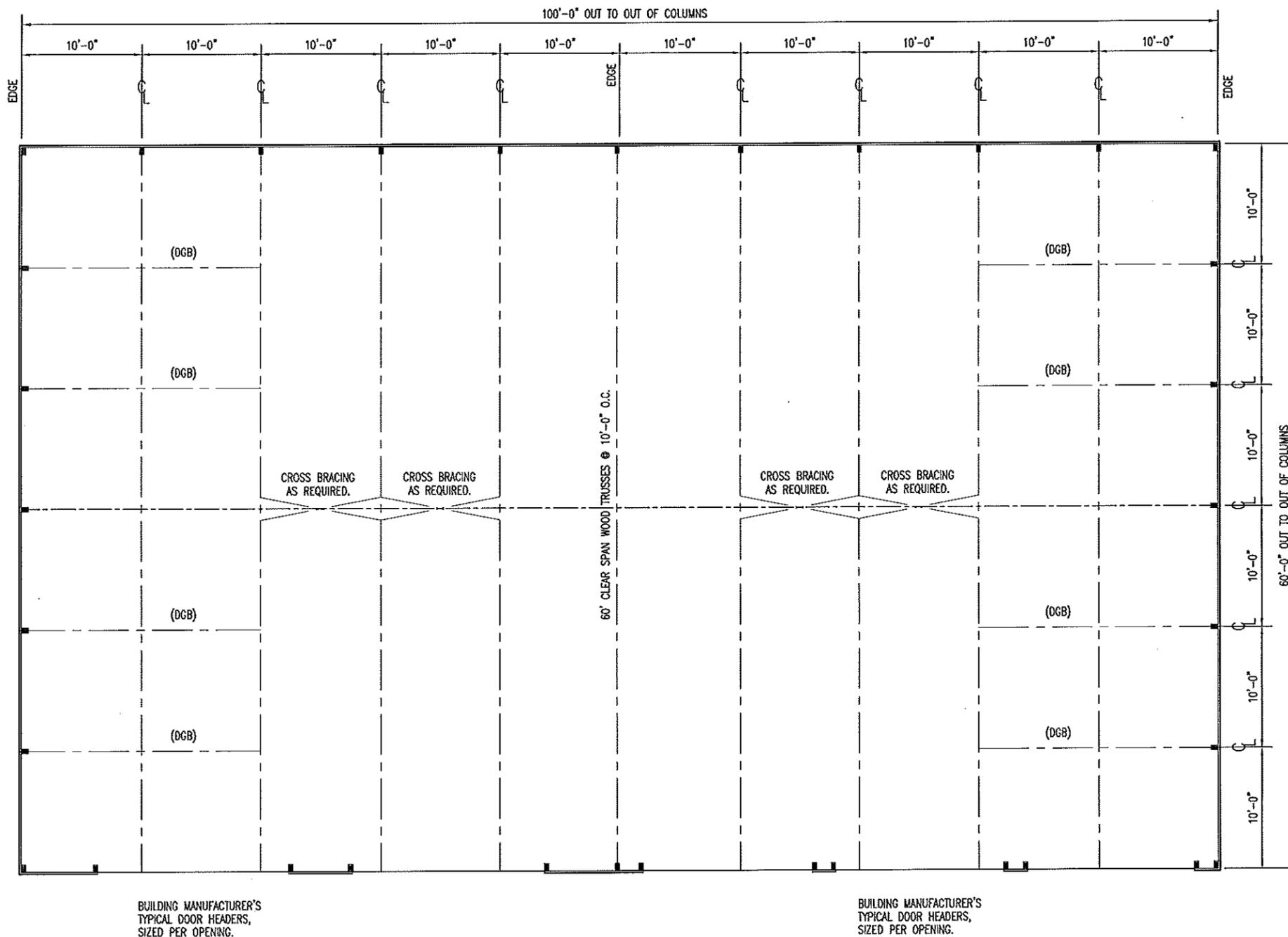
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WALL SECTIONS

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WARRENTON
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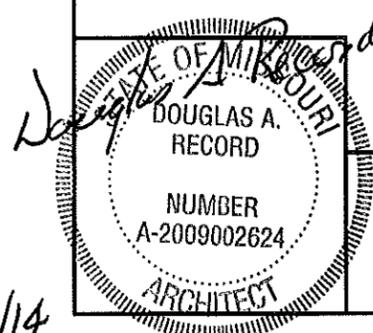


ROOF FRAMING NOTES

- DESIGN LOADING FOR ROOF TRUSSES SHALL MEET THE FOLLOWING CRITERIA:

| | |
|-----------------------|----------------------------|
| ROOF LIVE LOAD | 20 PSF |
| ROOF DEAD LOAD | 4 PSF |
| BOTTOM CORD DEAD LOAD | 5 PSF |
| EARTHQUAKE | ZONE 1, LATEST EDITION IBC |
| WIND | 90 MPH, EXPOSURE B |
| DEFLECTION | L/360 |
| SPACING | AS REQUIRED. |
- TRUSS DESIGN SUBMITTALS SHALL BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MISSOURI.
- ROOF TRUSSES AND RAFTERS SHALL BE ANCHORED TO THE TOP PLATE OF LOAD BEARING WALLS WITH SEISMIC AND HURRICANE ANCHORS EQUAL TO SIMPSON STRONG TIE #H1 ANCHORS.

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

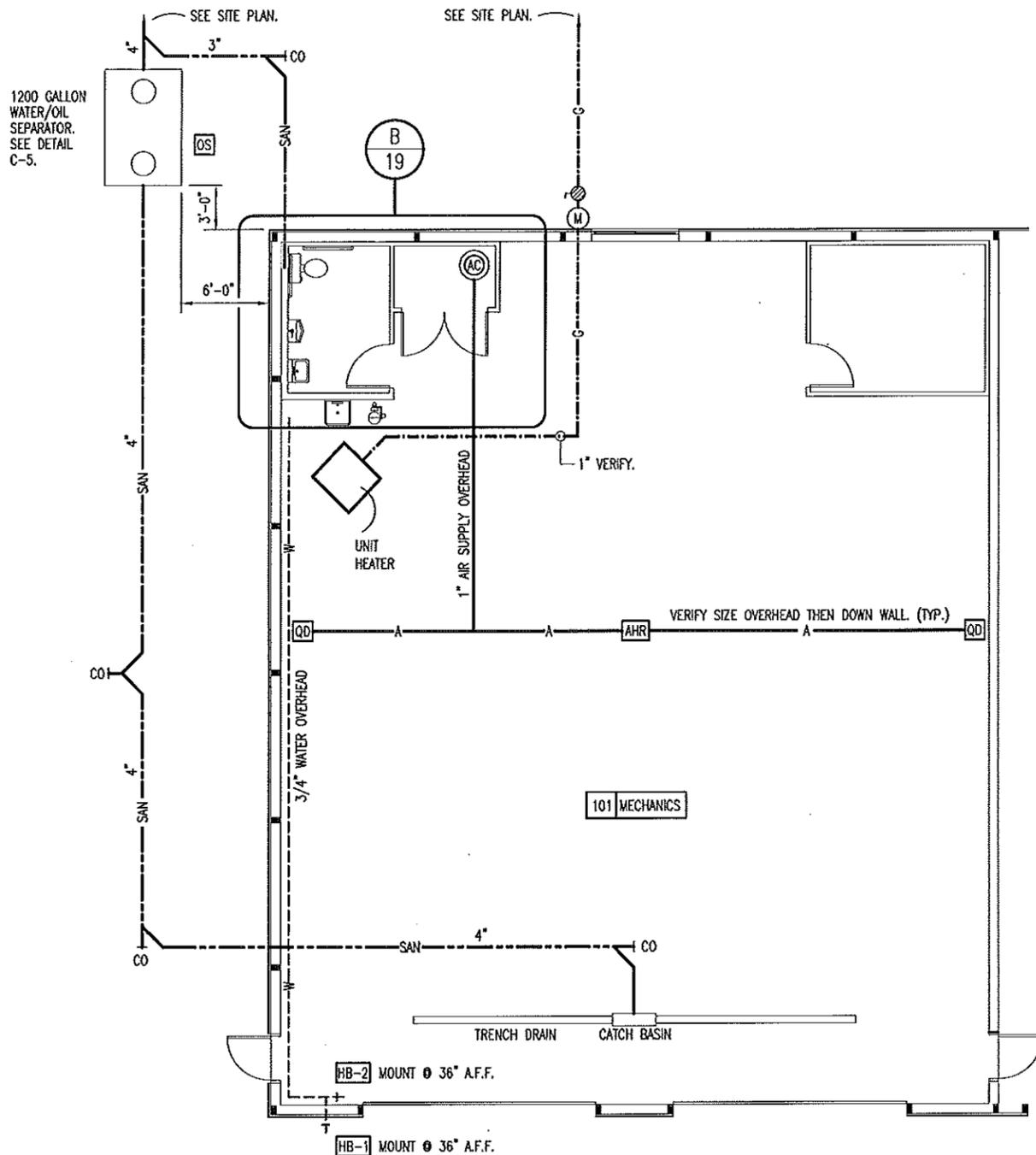


ROOF FRAMING PLAN

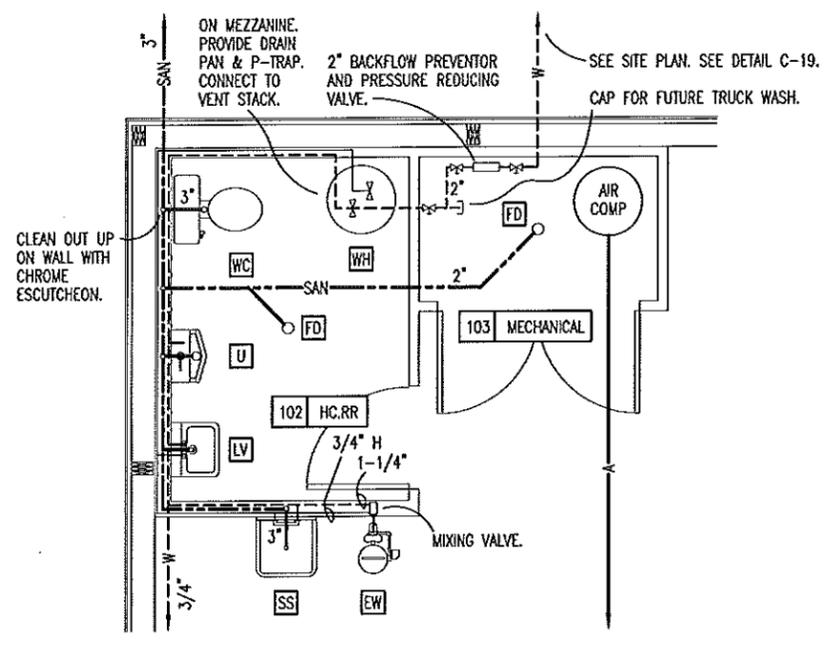
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WARRENTON
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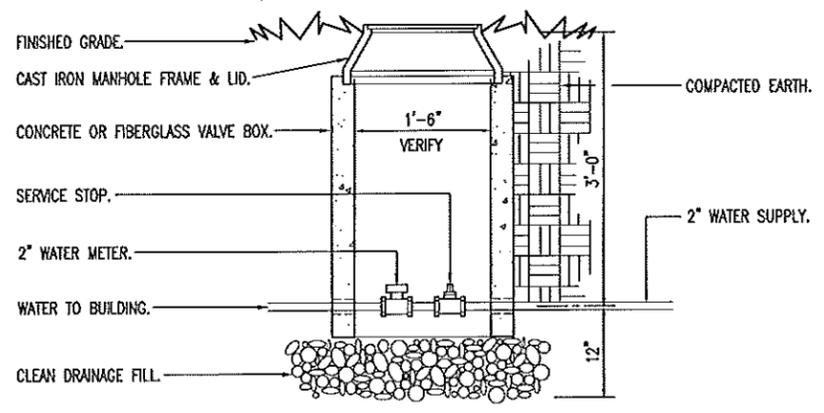
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A PLUMBING PLAN
 19 SCALE: 3/32" = 1'-0"



B REST ROOM PLAN
 19 SCALE: 3/16" = 1'-0"

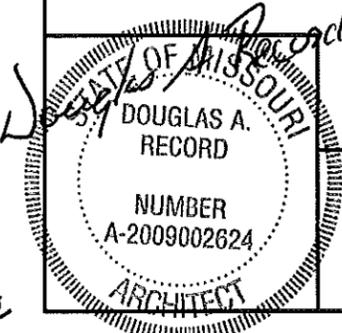


C WATER VALVE & DRAIN
 19 SCALE: 1/2" = 1'-0"

SEE SHEET 21 FOR PLUMBING SCHEDULE & NOTES.

LEGEND

| | |
|----------------|-----------------|
| HOT WATER | — H — |
| WATER | - - - W - - - |
| SANITARY SEWER | - - - SAN - - - |
| COMPRESSED AIR | — A — |
| GAS | - - - G - - - |
| CLEANOUT | C.O. — |
| GAS VALVE | ⊗ |



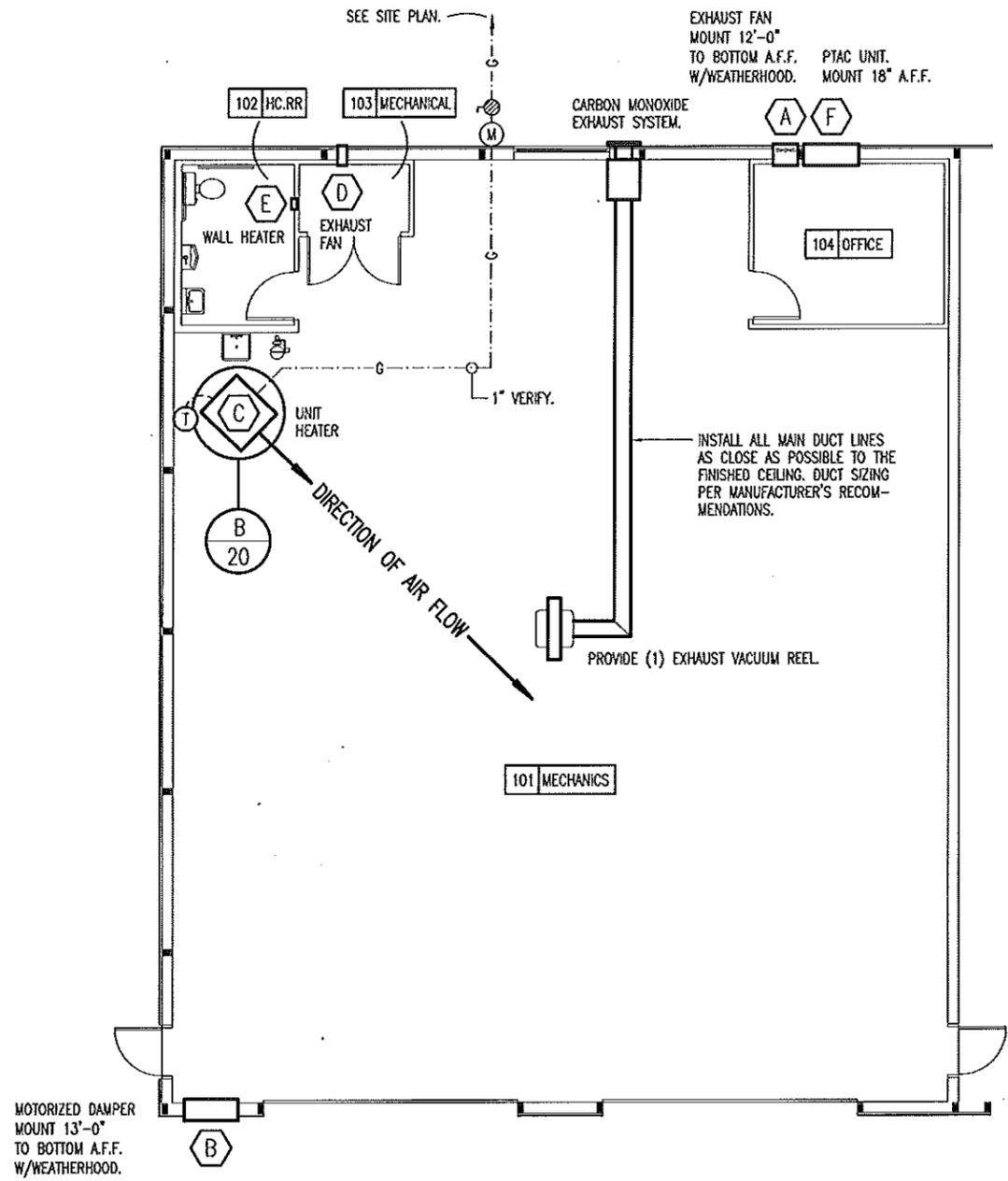
3/12/14

PLUMBING PLAN

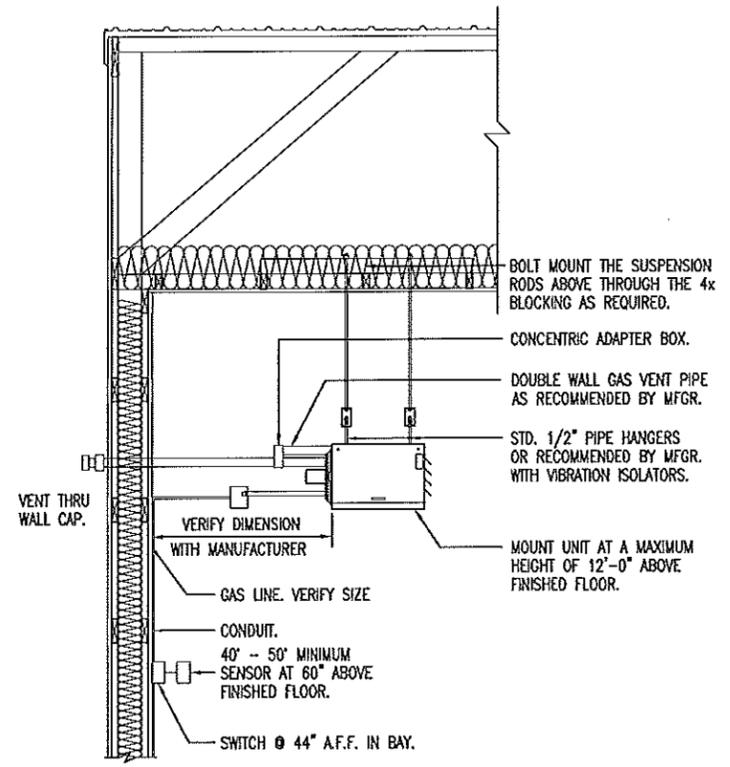
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 Mechanics Bay & Cold Storage Building
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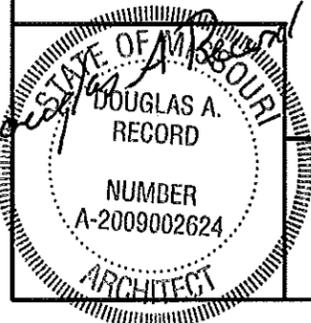
A MECHANICAL PLAN
20 SCALE: 3/32" = 1'-0"
NORTH



B UNIT HEATER INSTALLATION
20 NOT TO SCALE

SEE SHEET 21 FOR THE MECHANICAL NOTES.

SEE SHEET 10 FOR HVAC FIXTURE SCHEDULE.



MECHANICAL PLAN

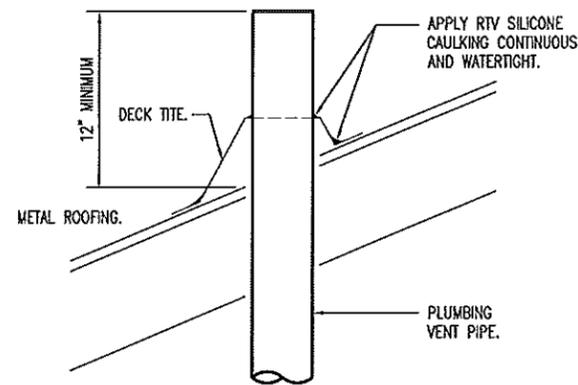
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| PLUMBING SCHEDULE | | | | | | |
|-------------------|--------------------|-----------------|------|--------|--------|---|
| SYM. | FIXTURE | PIPE CONNECTION | | | | REMARKS |
| | | CW | HW | S&W | VENT | |
| WC | WATER CLOSET | 1/2" | | 3" | 2" | EQUAL TO AMERICAN STANDARD #2377.100 FLOOR MOUNT. PRESSURE ASSISTED, ELONGATED WATER-SAVER "CADET" WATER CLOSET. 16-1/2" HIGH 3109.016 BOWL, 4098.100 TANK. INCLUDE OPEN FRONT SEAT WITH LID. (WHITE) |
| 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. |
| 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 W/ B340.242 HERITAGE LEVEL HANDLE FAUCET, AND 7798.176 P-TRAP. |
| EW | EMERGENCY EYE WASH | 1-1/4" | 3/4" | | | EQUAL TO BRADLEY "MODEL S19-310" DRENCH SHOWER/EYE WASH UNIT SAFETY YELLOW. S19-2100 THERMOSTATIC MIXING VALVE. |
| WH | WATER HEATER | 3/4" | 3/4" | | | A.O. SMITH MODEL NUMBER EES-30 (2) 4500 WATT, 240 VOLT ELEMENTS, 30 GALLON ELECTRIC WITH PRESSURE RELIEF VALVE OR EQUAL MOUNT ON MEZZANINE WITH DRAIN PAN. |
| HB-1 | HOSE BIBB | 3/4" | | | | EXTERIOR -- EQUAL TO WOODFORD MODEL 67 FREEZLESS WALL HYDRANT WITH 3/4" H.P.T. OUTLET, INTEGRAL VACUUM BREAKER-BACK FLOW PREVENTER. (N.I.C.) |
| HB-2 | HOSE BIBB | 3/4" | | | | INTERIOR -- EQUAL TO WOODFORD MODEL 26 WALL FAUCET WITH 3/4" H.P.T. OUTLET, INTEGRAL VACUUM BREAKER-BACKFLOW PREVENTER. |
| FD | FLOOR DRAIN | | | 2" | | PVC FLOOR DRAIN WITH P-TRAP, 6-1/2" DIA. NICKLE-BRONZE STRAINER, 2" FIP THREADED THROAT-BALL BACKWATER DEVICE. 1-1/2" PRE-INSTALLED FIP CLEAN-OUT THREADS. |
| TD | TRENCH DRAIN | | | 4" | | EQUAL TO ZURN Z886 CHANNEL SLOPE TRENCH DRAIN SYSTEM WITH LOCK DOWN CAST IRON GRATE "CLASS C". |
| CB | CATCH BASIN | | | 4" | | EQUAL TO ZURN Z887-6x20 CATCH BASIN, WITH STAINLESS STEEL TRASH BUCKET AND LOCK DOWN CAST IRON GRATE "CLASS C". |
| OS | OIL SEPARATOR | | | 4" | | EQUAL TO CHAMPION PRECAST INC. 1,200 GALLON OIL & GREASE INTERCEPTOR STOCK STANDARD NO. 140-00218D. HEAVY DUTY PRECAST CONCRETE. PH: (573)384-5855. |
| CO | CLEAN OUT | | | | | BRASS WITH ADAPTER AND CAP EQUAL TO PIPE SIZE SHOWN. |
| AC | AIR COMPRESSOR | | | | | EQUAL TO INGERSOLL-RAND MODEL #2475N7.5, 7.5 HP, 80 GALLON VERTICAL, 24.0 (ACFM) CAPACITY. PROVIDE RUBBERIZED WASHERS AT EACH FLOOR MOUNT TO ACT AS A SHOCK ABSORBER. SIZE MOUNT AS REQUIRED. PROVIDE LINE FILTERS AS REQUIRED. |
| AHR | AIR HOSE REEL | | | | | EQUAL TO REELCRAFT 7850 OLP 57 300 LOW PRESSURE HEAVY DUTY ALL STEEL CONSTRUCTION WITH ONE PIECE WRAP AROUND GUIDE ARM. |
| QD | QUICK DISCONNECT | | | | | VERIFY SIZE WITH MODOT MECHANIC. MOUNT AT 48" A.F.F. ATTACH RIGIDLY TO GIRTS. |



VENT THROUGH ROOF DETAIL

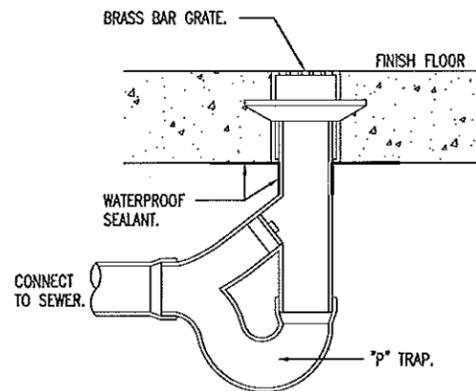
SCALE: NONE

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.

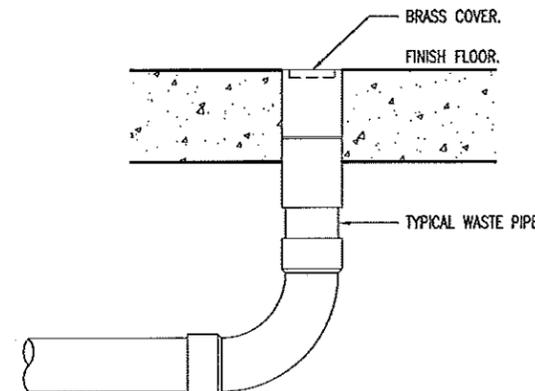
PLUMBING NOTES

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.



FLOOR DRAIN DETAIL

SCALE: NONE



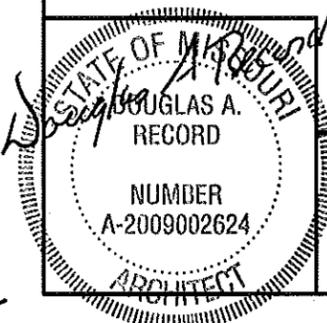
FLOOR CLEANOUT DETAIL

SCALE: NONE

A
21

PLUMBING & MECHANICAL NOTES

SCALE: NONE

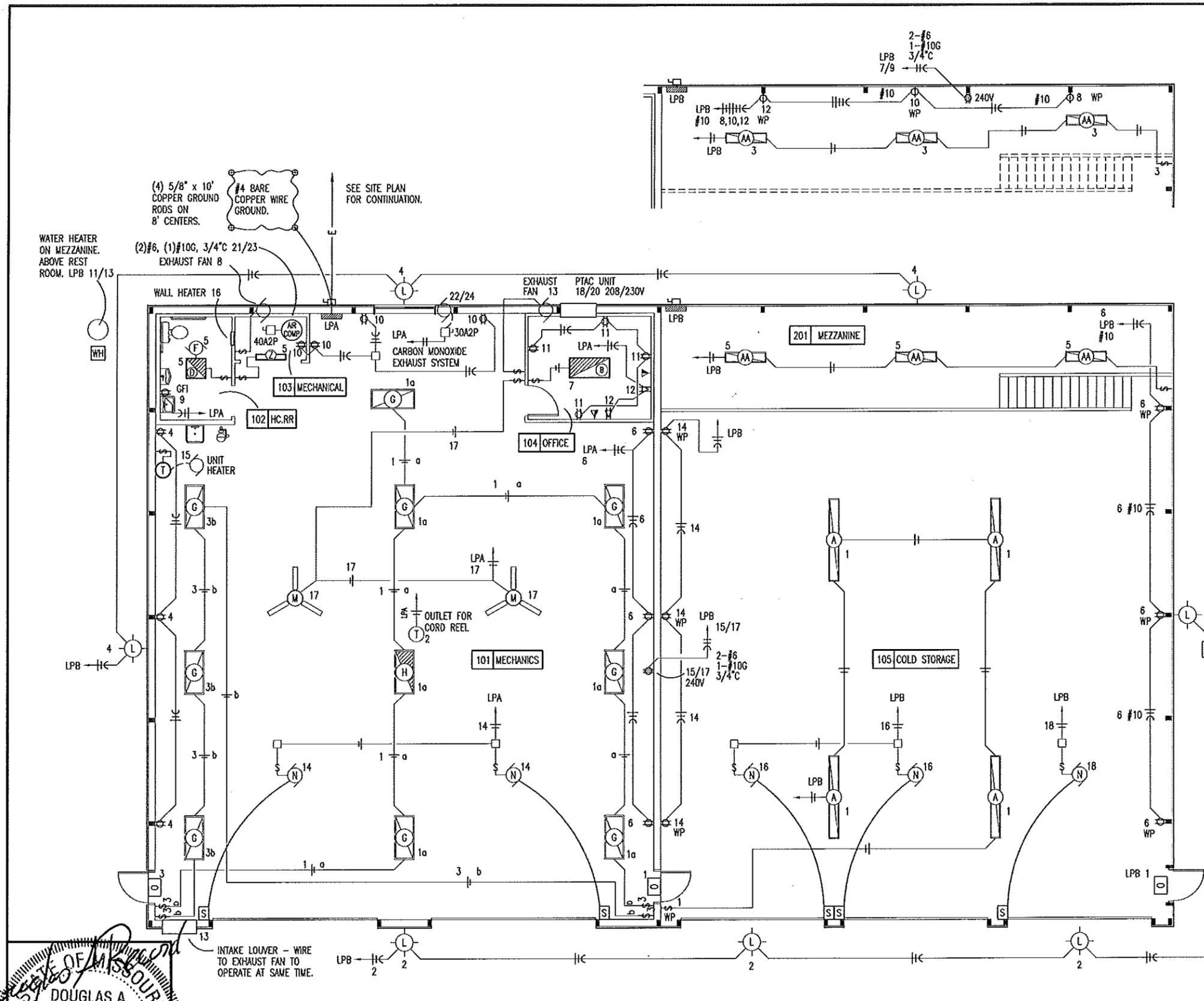


Plumbing & Mechanical Notes

MISSOURI DEPARTMENT OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

WARRENTON
Mechanics Bay & Cold Storage Building
Route MM 0.3 Miles West of Route U
Northeast District - Warren County

DESIGN BY: LARRY CARVER
DRAWN BY: LARRY CARVER
DATE: 1-17-14
Sheet 21 of 23



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UNDER MEZZANINE
ELECTRICAL PLAN
SCALE: 3/32" = 1'-0"

- LEGEND**
- ⌘ WP SINGLE POLE SWITCH, MOUNT IN FS BOX WITH HUBBELL HBL7420 COVER.
 - ⌘ WP DUPLEX RECEPTACLE MOUNTED IN FS BOX WITH HUBBELL HBL5221 COVER.
 - ⌘ WP SINGLE RECEPTACLE MOUNTED IN FS BOX WITH HUBBELL HBL7423 COVER.
 - ⌘ SINGLE POLE SWITCH, FLUSH MOUNTED IN FINISHED AREAS @ 48" A.F.F.
 - ⌘³ 3-WAY SWITCH, SURFACE MOUNTED IN UNFINISHED AREAS @ 48" A.F.F.
 - ⌘ DUPLEX RECEPTACLE FLUSH MOUNTED IN FINISHED AREAS @ 18" A.F.F. TO BOTTOM OF OUTLET.
DUPLEX RECEPTACLE SURFACE MOUNTED IN UNFINISHED AREAS @ 42" A.F.F.
 - ⌘ VOICE AND DATA OUTLET FLUSH MOUNTED IN FINISHED AREAS @ 18" A.F.F. TO BOTTOM OF OUTLET.
VOICE AND DATA OUTLET SURFACE MOUNTED IN UNFINISHED AREAS @ 42" A.F.F.
 - ⌘ WELDER RECEPTACLE SURFACE MOUNTED 42" A.F.F., MOUNT IN 4" SQUARE BOX WITH RAISED COVER.
 - ⌘ NO FUSED DISCONNECT SWITCH.
 - ⌘ DEDICATED RECEPTACLE FLUSH MOUNTED IN FINISHED AREAS @ 18" A.F.F. TO BOTTOM OF OUTLET.
 - ⌘ GFI DUPLEX RECEPTACLE WITH GROUND FAULT INTERRUPTER. PROVIDE SEPARATE GROUND PER CIRCUIT. TYPICAL.
 - ⌘ JUNCTION BOX, SIZE FOR WIRE, FILL ACCORDING TO ARTICLE 314-16 OF THE N.E.C.
- #12 COPPER NEUTRAL CONDUCTOR UNLESS NOTED.
 — #12 COPPER PHASE CONDUCTORS UNLESS NOTED.
 — 1/2" EMT UNLESS NOTED.
 — #12 COPPER GROUNDING CONDUCTOR UNLESS NOTED.

SEE ELECTRICAL SCHEDULE & NOTES SHEET 23.

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



STATE OF MISSOURI
RECORD
DOUGLAS A.
RECORD
NUMBER
A-2009002624
ARCHITECT

3/12/14

ELECTRICAL PLAN

MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

WARRENTON
Mechanics Bay & Cold Storage Building
Route MM 0.3 Miles West of Route U
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ELECTRIC SCHEDULE

| MANUF. | MODEL | LAMPS TYPE | W | MNT | REMARKS |
|----------------|--|----------------|-----|---------|--|
| WILLIAMS A | 81-8-454T5H-WG-EB2-UNV | 8 FLUORESCENT | 54 | CLG | 96" LONG SURFACE MOUNT FLUORESCENT LIGHT FIXTURE, W/ PAINTED STEEL HOUSING, ELECTRONIC BALLAST, & WIRE GUARD. |
| WILLIAMS B | 50G-S24-432-RA12125-EM7-EB4-120 | 4 FLUORESCENT | 32 | CLG | 24" x 48" STATIC TROFFER FIXTURE, W/ FULL DOOR FRAME, NO REVEAL, WHITE ALUMINUM, ELECTRONIC BALLAST & EMERGENCY BATTERY. |
| WILLIAMS D | 50G-S22-432-RA12125-EM7-EB4-120 | 4 FLUORESCENT | 32 | CLG | 24" x 24" STATIC TROFFER FIXTURE, W/ FULL DOOR FRAME, NO REVEAL, WHITE ALUMINUM, ELECTRONIC BALLAST & EMERGENCY BATTERY. |
| BROAN F | GRAINGER #4C772 | | | CLG | 80 CFM CEILING MOUNT BATHROOM VENTILATOR. |
| WILLIAMS G | GL-4-454T5H-HUB3/4" EB4-120 | 4 FLUORESCENT | 54 | CLG | 14" x 48" LOW PROFILE FIXTURE, W/ WHITE ALUMINUM HOUSING, HIGH SPECULAR ALUMINUM REFLECTOR & ELECTRONIC BALLAST. |
| WILLIAMS H | GL-4-454T5H-HUB3/4" EM700-EB4-120 | 4 FLUORESCENT | 54 | CLG | 14" x 48" FIXTURE, W/ WHITE ALUMINUM HOUSING, HIGH SPECULAR ALUMINUM REFLECTOR ELECTRONIC BALLAST & EMERGENCY BATTERY. |
| WILLIAMS L | PGM-175H-128-2 | 1 METAL HALIDE | 175 | WALL | EXTERIOR, SURFACE MOUNT LIGHT FIXTURE, WITH ALUMINUM HOUSING, & IMPACT RESISTANT ONE-PIECE, WRAPAROUND LENS. |
| DAYTON M | 4C853 | | | CLG | SINGLE-SPEED, THREE-BLADE, HEAVY DUTY COMMERCIAL CEILING FAN. |
| N | OVERHEAD DOOR OPERATOR | | | WALL | 115V, 1-PH, TROLLEY TYPE. SEE SPECIFICATION SECTION 08720. |
| LITHONIA O | LHQM P W3 R N | | | WALL | QUANTUM THERMOPLASTIC EXIT/UNIT COMBO (2) LED 5.4 KRYPTON LAMPS. |
| TORK P | 2001 | | | WALL | 120V PHOTO ELECTRIC CONTROL OF EXTERIOR LIGHTS. |
| S | OVERHEAD DOOR CONTROL | | | WALL | THREE BUTTON OVERHEAD DOOR CONTROL AS SUPPLIED BY OVERHEAD DOOR MANUF. SEE SPECIFICATION SECTION 08720. |
| REELCRAFT T | L 4050 163 1 | | | CLG | CEILING MOUNTED SPRING RETRACTABLE, ELECT. CORD REEL WITH INCANDESCENT LAMP & THREE PRONG OUTLET PLUG. |
| LITHONIA Z | WP 1 39 39W 15 HO (36") DO 120 GEB10IS | 1 FLUORESCENT | 39 | WALL | 7-3/16" x 36" PREMIUM WALL BRACKET 20 GAUGE COLDED-ROLLED STEEL. DIFFUSER IS HIGH-IMPACT. HANG INSIDE ABOVE DOOR. |
| WILLIAMS AA | 15-4-2-32-F-A19156 EB2-120 | 2 FLUORESCENT | 32 | SURFACE | 12" x 48" .050" ALUMINUM FRAME WITH LUMINUS SIDES. PROVIDE BLOCKING AS REQUIRED. |

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

SERVICE PANEL LPA

| MAIN BUS: 225A MLO VOLTS: 240/120, 1PH, 3-WIRE BUS MATERIAL: COPPER MOUNTING: SURFACE | | SQUARE "O" NOOD OR EQUAL W/ NEUTRAL BUS & GROUNDING BUS CIRCUIT BREAKERS BOLT-IN 10000 AIC | | CONNECTED LOAD A PHASE 16343 VA B PHASE 13415 VA TOTAL 29758 VA 124 A | | |
|--|----------------------------|--|---------|---|---------------------------|-----|
| CIR | SERVICE | VA | BKR | VA | SERVICE | CIR |
| 1 | LIGHTS - 101 MECHANICS | 1517 | 20A1P A | 540 | CORD REEL | 2 |
| 3 | LIGHTS - 101 MECHANICS | 643 | 20A1P B | 540 | RECEPTACLES - 101 | 4 |
| 5 | LIGHTS - 102 RR, 103 MECH. | 227 | 20A1P A | 540 | RECEPTACLES - 101 | 6 |
| 7 | LIGHTS - 104 OFFICE | 128 | 20A1P B | 576 | EXHAUST FAN 103 MECH. | 8 |
| 9 | GFI RECEPTACLE - 102 RR | 180 | 20A1P A | 720 | RECEPTACLES - 101 & MECH. | 10 |
| 11 | RECEPTACLES - 104 OFFICE | 720 | 20A1P B | 360 | RECEPTACLES - 104 OFFICE | 12 |
| 13 | EXHAUST FAN & LOUVER | 813 | 20A1P A | 30A1P 2162 | GARAGE DOOR OPENERS | 14 |
| 15 | UNIT HEATER - 103 MECH. | 456 | 20A1P B | 20A1P 504 | WALL HEATER - 102 RR | 16 |
| 17 | CEILING FANS - 101 | 156 | 20A1P A | 30A2P 4060 | PTAC UNIT | 18 |
| 19 | SPARE | - | 20A1P B | 4060 | | 20 |
| 21 | AIR COMPRESSOR | 4600 | 50A2P A | 30A2P 828 | CARBON MONOXIDE | 22 |
| 23 | | 4600 | B | 828 | | 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

SERVICE PANEL LPB

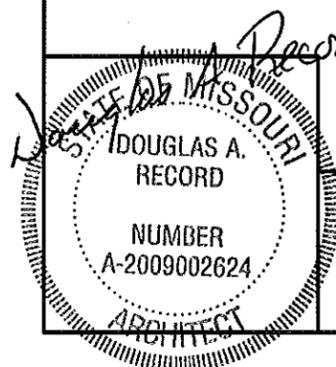
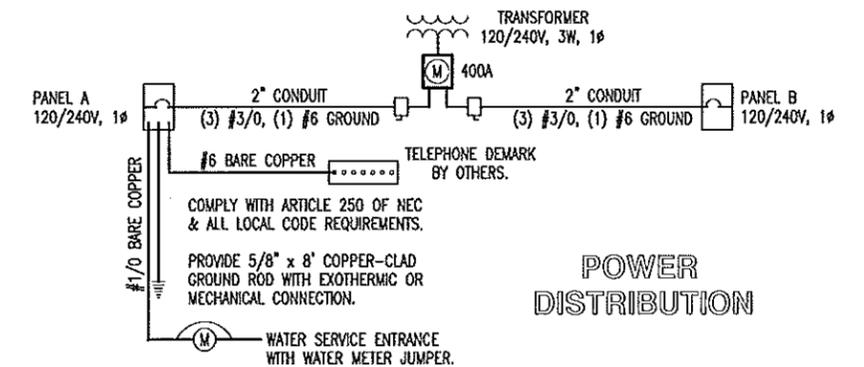
| MAIN BUS: 400A MLO VOLTS: 240/120, 1PH, 3-WIRE BUS MATERIAL: COPPER MOUNTING: SURFACE | | SQUARE "O" NOOD OR EQUAL W/ NEUTRAL BUS & GROUNDING BUS CIRCUIT BREAKERS BOLT-IN 10000 AIC | | CONNECTED LOAD A PHASE 17382 VA B PHASE 16480 VA TOTAL 33862 VA 141 A | | |
|--|---------------------------|--|---------|---|---------------------|-----|
| CIR | SERVICE | VA | BKR | VA | SERVICE | CIR |
| 1 | LIGHTS - 105 COLD STORAGE | 1728 | 20A1P A | 700 | EXTERIOR LIGHTS | 2 |
| 3 | LIGHTS - 105 STORAGE | 193 | 20A1P B | 525 | EXTERIOR LIGHTS | 4 |
| 5 | LIGHTS - 201 MEZZANINE | 193 | 20A1P A | 540 | RECEPTACLES - 105 | 6 |
| 7 | 105 - WELDER COLD STORAGE | 4500 | 50A2P B | 20A1P 1000 | RECEPTACLE - 105 | 8 |
| 9 | | 4500 | A | 20A1P 1000 | RECEPTACLE - 105 | 10 |
| 11 | WATER HEATER | 2600 | 30A2P B | 20A1P 1000 | RECEPTACLE - 105 | 12 |
| 13 | | 2600 | A | 20A1P 540 | RECEPTACLES - 105 | 14 |
| 15 | 101 - WELDER MECHANICS | 4500 | 50A2P B | 30A1P 2162 | GARAGE DOOR OPENERS | 16 |
| 17 | | 4500 | A | 20A1P 1081 | GARAGE DOOR OPENER | 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

ELECTRICAL NOTES

- DRAWINGS AND DIAGRAMS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
- ELECTRICAL WORK SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE (N.E.C.).
- PROVIDE ELECTRICAL EQUIPMENT AND ACCESSORIES REQUIRED FOR A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM AS REQUIRED BY MANUFACTURER'S INSTRUCTIONS AND DIRECTIONS FOR SYSTEMS SPECIFIED.
- SWITCHES AND RECEPTACLES SHALL BE EQUAL TO THE AMPERE RATING SHOWN IN THE PANEL SCHEDULE. RECEPTACLES SHALL BE GROUND-FAULT INTERRUPTION TYPE WHERE SHOWN OR AS REQUIRED BY CODE.
- BATHROOM EXHAUST FAN IS TO BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
- SEE HVAC SCHEDULE FOR EQUIPMENT TO BE HARD WIRED, PROVIDE SERVICE DISCONNECT AT EACH.
- ALL RECEPTACLES IN GARAGE AREA TO BE MOUNTED AT 48" A.F.F.
- COORDINATE WORK WITH OTHER TRADES PRIOR TO COMMENCING WITH ELECTRICAL WORK.
- CONDUCTOR AND BREAKER SIZE MAY VARY PER MANUFACTURER ON THE EQUIPMENT SPECIFIED. 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.



ELECTRICAL PANELS

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