

## ADDENDUM NO. 4

TO: PLANS AND SPECIFICATIONS FOR STATE OF MISSOURI

Upgrades and Renovations  
Missouri Veterans Home  
Cape Girardeau, Missouri  
Project No.: U1805-01 (FAI 29-043)

Bid Opening Date: 1:30 PM, Tuesday, February 4, 2020

Bidders are hereby informed that the construction Plans and/or Specifications are modified as follows:

### **SPECIFICATION CHANGES:**

1. **SECTION 007346 – ANNUAL WAGE ORDER No. 26, CAPE GIRARDEAU COUNTY**

- a. ADD to the specifications.
- b. Note: Bidder shall use the higher of the prevailing wage for each job classification found in the wage rate mentioned above and the federal Davis – Bacon wage order.

1. **SECTION 072100 – THERMAL INSULATION**

- a. DELETE Paragraph 2.5-A.

2. **ADD SECTION 085659 – SERVICE AND TELLER WINDOW UNITS**

- a. See attached new Specification Section 085659.

3. **SECTION 088000 – GLAZING**

- a. REVISE Paragraph 2.5-B.6 as follows:
  6. Fire-Rating Period: 45 minutes and 90 minutes as indicated on the drawings.

4. **SECTION 230719 – HVAC PIPING INSULATION**

- a. ADD Paragraph 3.3. See attached revised Specification Section 230719.

### **DRAWING CHANGES:**

1. **Drawings C-002, C-003, C-004**

- a. REVISE Finish Floor elevation for the Missouri Veterans Home Building to 582.00 FT.

2. **Drawing C-004**

- a. REMOVE AND REPLACE Keyed Note 2 as follows:

2. NEW PARKING LOT LIGHTING AND LIGHT POLES. REFER TO ELECTRICAL PLANS FOR LIGHTING FIXTURE SPECIFICATIONS. NEW FOUNDATION AND ANCHOR BOLTS. REFER TO ELECTRICAL PLANS FOR FOUNDATION DETAILS.

**3. Drawing C-008**

- a. DELETE subgrade remediation call out on Detail 2. Subgrade remediation is not required under concrete walk.
- b. ADD Detail 13 - Truncated Dome and Ramp Detail as indicated on attachment SD-C-008.1

**4. Drawing S-001**

- a. ADD F5 on the Pad Footing Schedule as indicated on attachment SD-S-001.1

**5. Drawing S-101**

- a. REVISE footing callouts as indicated on attachment SD-S-101.1

**6. Drawing S-301**

- a. REVISE Detail 6 as indicated on attachment SD-S-301.1
- b. DELETE Detail 15 as indicated on attachment SD-S-301.1

**7. Drawing A-001**

- a. ADD Partition 2A to be UL#301 2 Hour Rated as indicated on attachment SD-A-001.1

**8. Drawings A-102, A-103, A-104, A-105**

- a. ADD Demolition General Note EE as follows:

EE. REMOVE ALL EXISTING MTL. FASCIA AND SOFFIT PANEL ON CORE, WING A, WING B, WING C, ANNEX, MAINTENANCE SHED AND BUS STOP

- b. REVISE Demolition Keynote D04 as follows:

D04. EXISTING EXTERIOR WALL, FOUNDATION WALL AND FOOTING TO BE REMOVED.

**9. Drawing A-114**

- a. ADD Roof General Note K as follows:

K. INSTALL NEW FIBER CEMENT SOFFIT AND ALUMINUM FASCIA ON EXISTING FASCIA BOARDS AT CORE, WING A, WING B, WING C, ANNEX, MAINTENANCE SHED AND BUS STOP.

**10. Drawing A-116**

- a. ADD Detail 3, Enlarged Plan of Admin. Assist. 003 with information as indicated on SD-A-116.1

- b. REVISE Partition type "P2" on Enlarged Wing A DINING to read type "P2A" as indicated on drawing SD-A-116.2

**11. Drawings A-118, A-408**

- a. ADD Mark T5 SOAP DISPENSER to TOILET ACCESSORY SCHEDULE.
- b. ADD Mark T5 as indicated on attachments SD-A-118.1 and SD-A-408.1

**12. Drawing A-409**

- a. ADD Detail 5 – East Elevation of Admin. Assist 003 as indicated on SD-A-409.1
- b. ADD Detail 6 – South Elevation of Admin. Assist. 003 as indicated on SD-A-409.1
- c. ADD Base Cabinet B28 and B29 to the Casework Schedule as indicated on SD-A-409.1

**13. Drawing A-601**

- a. REVISE Doors 044B, 050B, A205, B106, B108, B205, C215, C314, C316, P001, P002, P003 as indicated on Door Schedule on SD-A-601.2
- b. DELETE Door 71 on Door Schedule

**14. Drawing A-602**

- a. ADD Details 21 and 22 as indicated on SD-A-602.1 and SD-A-602.2

**15. Drawing E-114**

- a. REVISE Storage Room 049 to install three (3) Type W lay-in luminaires and three (3) Type C fixtures along with a ceiling mounted vacancy sensor and switch adjacent to entryway.

**16. Drawing E-119**

- a. REVISE location of existing Panelboard MLL2. Relocate to adjacent wall extending feeder and branch circuits as necessary.

**17. Drawing E-602**

- a. REVISE Type SE on the Luminaire Schedule as indicated on SD-E-602.2
- b. REVISE Luminaire Schedule as follows:
  - Type K – Catalog number "523 DI W 1 L40 SR 4 U S1 S93 SW"
  - Type L – Catalog number "DC 20 E8 LED C83/4 CBC3"
  - Type M – Catalog number "W517 21 E4 LED CB1/2"

**GENERAL:**

- 1. Existing Fire Suppression Sprinkler System Drawings available upon request.

**ATTACHMENTS:**

**1. Specification Sections:**

- a. Section 007346 – ANNUAL WAGE ORDER No. 26, CAPE GIRARDEAU COUNTY
- b. Section 085659 – SERVICE AND TELLER WINDOW UNITS
- c. Section 230719 – HVAC PIPING INSULATION

**2. Drawing Attachments:**

- a. SD-C-008.1
- b. SD-S-001.1
- c. SD-S-101.1
- d. SD-S-301.1
- e. SD-A-001.1
- f. SD-A-116.1
- g. SD-A-116.2
- h. SD-A-118.1
- i. SD-A-408.1
- j. SD-A-409.1
- k. SD-A-601.2
- l. SD-A-602.1
- m. SD-A-602.2
- n. SD-E-602.2

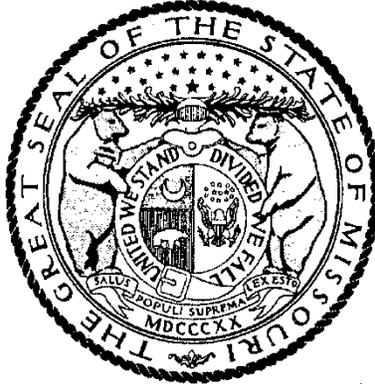
**January 28, 2020**

**END ADDENDUM NO. 4**

# Missouri

## Division of Labor Standards

### WAGE AND HOUR SECTION



MICHAEL L. PARSON, Governor

# Annual Wage Order No. 26

Section 016  
**CAPE GIRARDEAU COUNTY**

In accordance with Section 290.262 RSMo 2000, within thirty (30) days after a certified copy of this Annual Wage Order has been filed with the Secretary of State as indicated below, any person who may be affected by this Annual Wage Order may object by filing an objection in triplicate with the Labor and Industrial Relations Commission, P.O. Box 599, Jefferson City, MO 65102-0599. Such objections must set forth in writing the specific grounds of objection. Each objection shall certify that a copy has been furnished to the Division of Labor Standards, P.O. Box 449, Jefferson City, MO 65102-0449 pursuant to 8 CSR 20-5.010(1). A certified copy of the Annual Wage Order has been filed with the Secretary of State of Missouri.

Original Signed by

Taylor Burks, Director  
Division of Labor Standards

Filed With Secretary of State: \_\_\_\_\_ **March 8, 2019**

Last Date Objections May Be Filed: **April 8, 2019**

Prepared by Missouri Department of Labor and Industrial Relations

OCCUPATIONAL TITLE	** Date of Increase	Basic Hourly Rates
<b>Asbestos Worker</b>		<b>\$40.22</b>
Boilermaker		\$23.12*
Bricklayer		\$42.44
Carpenter		\$45.40
Lather		
Linoleum Layer		
Millwright		
Pile Driver		
Cement Mason		\$44.09
Plasterer		
Communications Technician		\$23.12*
Electrician (Inside Wireman)		\$64.70
Electrician Outside Lineman		\$23.12*
Lineman Operator		
Lineman - Tree Trimmer		
Groundman		
Groundman - Tree Trimmer		
Elevator Constructor		\$23.12*
<b>Glazier</b>		<b>\$34.60</b>
Ironworker		\$55.03
Laborer		\$36.28
General Laborer		
First Semi-Skilled		
Second Semi-Skilled		
Mason		\$50.43
Marble Mason		
Marble Finisher		
Terrazzo Worker		
Terrazzo Finisher		
Tile Setter		
Tile Finisher		
Operating Engineer		\$56.07
Group I		
Group II		
Group III		
Group III-A		
Group IV		
Group V		
Painter		\$36.43
Plumber		\$49.42
Pipe Fitter		
Roofer		\$38.29
Sheet Metal Worker		\$51.14
Sprinkler Fitter		\$23.12*
Truck Driver		\$23.12*
Truck Control Service Driver		
Group I		
Group II		
Group III		
Group IV		

\*The Division of Labor Standards received less than 1,000 reportable hours as required by RSMo 290.257.4(b). Public works contracting minimum wage is established for this occupational title using data provided by Missouri Economic Research and Information Center, in accordance with RSMo 290.257.2.

Heavy Construction Rates for  
CAPE GIRARDEAU County

Section 016

OCCUPATIONAL TITLE	** Date of Increase	Basic Hourly Rates
Carpenter		\$44.60
Millwright		
Pile Driver		
Electrician (Outside Lineman)		\$23.12*
Lineman Operator		
Lineman - Tree Trimmer		
Groundman		
Groundman - Tree Trimmer		
Laborer		\$49.11
General Laborer		
Skilled Laborer		
Operating Engineer		\$55.88
Group I		
Group II		
Group III		
Group IV		
Truck Driver		\$23.12*
Truck Control Service Driver		
Group I		
Group II		
Group III		
Group IV		

Use Heavy Construction Rates on Highway and Heavy construction in accordance with the classifications of construction work established in 8 CSR 30-3.040(3).

Use Building Construction Rates on Building construction in accordance with the classifications of construction work established in 8 CSR 30-3.040(2).

If a worker is performing work on a heavy construction project within an occupational title that is not listed on the Heavy Construction Rate Sheet, use the rate for that occupational title as shown on the Building Construction Rate Sheet.

\*The Division of Labor Standards received less than 1,000 reportable hours as required by RSMo 290.257.4(b). Public works contracting minimum wage is established for this occupational title using data provided by Missouri Economic Research and Information Center, in accordance with RSMo 290.257.2.

# OVERTIME and HOLIDAYS

## OVERTIME

For all work performed on a Sunday or a holiday, not less than twice (2x) the prevailing hourly rate of wages for work of a similar character in the locality in which the work is performed or the public works contracting minimum wage, whichever is applicable, shall be paid to all workers employed by or on behalf of any public body engaged in the construction of public works, exclusive of maintenance work.

For all overtime work performed, not less than one and one-half (1½) the prevailing hourly rate of wages for work of a similar character in the locality in which the work is performed or the public works contracting minimum wage, whichever is applicable, shall be paid to all workers employed by or on behalf of any public body engaged in the construction of public works, exclusive of maintenance work or contractual obligation. For purposes of this subdivision, "**overtime work**" shall include work that exceeds ten hours in one day and work in excess of forty hours in one calendar week; and

A thirty-minute lunch period on each calendar day shall be allowed for each worker on a public works project, provided that such time shall not be considered as time worked.

## HOLIDAYS

January first;  
The last Monday in May;  
July fourth;  
The first Monday in September;  
November eleventh;  
The fourth Thursday in November; and  
December twenty-fifth;

If any holiday falls on a Sunday, the following Monday shall be considered a holiday.

## **SECTION 08 5659 - SERVICE AND TELLER WINDOW UNITS**

### **PART 1 GENERAL**

#### **1.1. SECTION INCLUDES**

- A. Service and teller window units.

#### **1.2. REFERENCE STANDARDS**

- A. AAMA 611 - Voluntary Specification for Anodized Architectural Aluminum; 2014 (2015 Errata).
- B. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes; 2014.
- C. ASTM B221M - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes (Metric); 2013.

#### **1.3. ADMINISTRATIVE REQUIREMENTS**

- A. Coordinate work with adjacent materials specified in other sections and as indicated on drawings and approved shop drawings.

#### **1.4. SUBMITTALS**

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Submit manufacturer's product data for specified products indicating materials, operation, glazing, finishes, and installation instructions.
- C. Shop Drawings: Indicate configuration, sizes, rough-in, mounting, anchors and fasteners, and installation clearances.
- D. Test Data: Test reports for specific window model and glazing to be furnished, showing compliance with all specified requirements; window and glazing may be tested separately, provided window test sample adequately simulates the glazing to be used.
- E. Samples for Selection of Finishes:
  - 1. Color Anodized Finishes: Frame member sections showing range of color to be expected in finished work.
- F. Manufacturer Qualification Statement.
- G. Installer Qualification Statement.
- H. Testing Agency Qualification Statement.
- I. Warranty: Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.

#### **1.5. QUALITY ASSURANCE**

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with at least ten years documented experience, and with ability to provide test reports showing that their standard manufactured products meet the specified requirements.

- B. Installer Qualifications: Company specializing in performing work of the type specified and with at least three years of documented experience.

#### 1.6. DELIVERY, STORAGE, AND HANDLING

- A. Deliver units in manufacturer's original packaging and unopened containers with identification labels intact.
- B. Store units in area protected from exposure to weather and vandalism.

#### 1.7. WARRANTY

- A. See Section 01 7800 - Closeout Submittals, for additional warranty requirements.

### PART 2 PRODUCTS

#### 2.1. SERVICE AND TELLER WINDOW UNITS

- A. Location: Built within interior wall, as indicated on drawings.
- B. Type of Use: Walk-up.
- C. Window Type: S.
  - 1. Operation: Manual.
  - 2. Mounting: Flush with wall surface.
  - 3. Window Unit Size: 60 inch wide by 48 inch high.
  - 4. Size of Counter Space: As indicated on drawings.
  - 5. Material: Aluminum.
    - a. Finish: Color anodized, dark bronze.
  - 6. Header: Manufacturer's standard type.
  - 7. Sill: Manufacturer's standard type with integral deal tray.
- D. Glazing: Single (monolithic), clear.
  - 1. 1/4-inch Tempered safety glazing.
- E. Products:
  - 1. Easi-Serv Products; SS Series Side Sliding Window: [www.easi-serv.com/#sl](http://www.easi-serv.com/#sl).
  - 2. CR Laurence; DW Series Manual Deluxe Sliding Service Window: [www.crlaurence.com](http://www.crlaurence.com).
  - 3. Ready Access; Model 275 Single Panel Sliding Transaction Window.
  - 4. Substitutions: See Section 01 6000 - Product Requirements.

#### 2.2. ASSEMBLY COMPONENTS

- A. Windows: Factory-fabricated, finished, and glazed, with extruded aluminum frame and glazing stops; complete with hardware and anchors.
  - 1. Provide window units that are re-glazable from the secure side without dismantling the non-secure side of framing.

2. Rigidly fit and secure joints and corners with internal reinforcement. Make joints and connections flush, hairline, and weatherproof. Fully weld corners.
3. Apply factory finish to exposed surfaces.
4. Horizontal Sliding Windows: Top-hung operable sash; with thumb-turn release and drop down security bar.

B. Deal Tray: Integral with window sill.

1. Material: One piece stainless steel tray construction, 18 gage, 0.0500 inch minimum thickness.
2. Overall Size with Curved Tray Bottom: 8 inch deep by 11-1/2 inch wide.

2.3. MATERIALS

- A. Aluminum Extrusions: Minimum 1/8 inch thick frame and sash material complying with ASTM B221 and ASTM B221M.
- B. Monolithic Glass: Fully tempered float glass; minimum 1/4 inch thickness.
- C. Sealant for Setting Sills and Sill Flashing: Non-curing butyl type.

2.4. FINISHES

- A. Class I Color Anodized Finish: AAMA 611 AA-M12C22A42 Integrally colored anodic coating not less than 0.7 mils thick.
- B. Color: As indicated on drawings.

2.5. ACCESSORIES

- A. Hardware and Security Devices for Sliding Windows:
  1. Night Security Lock Bar: Sliding aluminum lock bar.
  2. Weatherstripping and Glazing Sealant: Factory applied.
  3. Bottom Sills: Stainless steel construction, no bottom tracks and no pop rivets.
  4. Handles: Stainless steel, manufacturer's standard profile and finish.

PART 3 EXECUTION

3.1. EXAMINATION

- A. Verify that window openings are ready for installation of windows.
- B. Verify that correct embedded anchors are in place and in proper location; repair or replace anchors as required to achieve satisfactory installation.
- C. Notify Architect if conditions are not suitable for installation of units; do not proceed until conditions are satisfactory.

3.2. INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Install units in correct orientation (inside/outside or secure/non-secure).

- C. Anchor units securely in manner so as to achieve performance specified.
- D. Set sill members and sill flashing in continuous bead of sealant.

3.3. ADJUSTING

- A. Adjust operating components for smooth operation while also maintaining a secure, weather-tight enclosure and a tight fit at the contact points; lubricate operating hardware.

3.4. CLEANING

- A. Remove protective material from factory finished surfaces.
- B. Clean exposed surfaces promptly after installation without damaging finishes.

3.5. DEMONSTRATION

- A. Train Owner's maintenance personnel to adjust, operate, and maintain operable units.
  - 1. Instructor: Manufacturer's training personnel.
  - 2. Location: At project site.
  - 3. Use operation and maintenance manual as training reference, supplemented with additional training materials as required.

3.6. PROTECTION

- A. Provide temporary protection to ensure that service and teller windows are without damage upon Date of Substantial Completion.

**END OF SECTION 08 5659**

## **SECTION 23 0719 - HVAC PIPING INSULATION**

### **PART 1 GENERAL**

#### **1.1. SECTION INCLUDES**

- A. Piping insulation.
- B. Jackets and accessories.
- C. Engineered wall outlet seals and refrigerant piping insulation protection.

#### **1.2. REFERENCE STANDARDS**

- A. ASTM B209 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate; 2014.
- B. ASTM B209M - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate (Metric); 2014.
- C. ASTM C177 - Standard Test Method for Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of the Guarded-Hot-Plate Apparatus; 2013.
- D. ASTM C534/C534M - Standard Specification for Preformed Flexible Elastomeric Cellular Thermal Insulation in Sheet and Tubular Form; 2016.
- E. ASTM C547 - Standard Specification for Mineral Fiber Pipe Insulation; 2017.
- F. ASTM C552 - Standard Specification for Cellular Glass Thermal Insulation; 2016a.
- G. ASTM C795 - Standard Specification for Thermal Insulation for Use in Contact with Austenitic Stainless Steel; 2008 (Reapproved 2013).
- H. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2018.
- I. ASTM E96/E96M - Standard Test Methods for Water Vapor Transmission of Materials; 2016.
- J. UL 723 - Standard for Test for Surface Burning Characteristics of Building Materials; Current Edition, Including All Revisions.

#### **1.3. SUBMITTALS**

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide product description, thermal characteristics, list of materials and thickness for each service, and locations.

### **PART 2 PRODUCTS**

#### **2.1. REGULATORY REQUIREMENTS**

- A. Surface Burning Characteristics: Flame spread index/Smoke developed index of 25/50, maximum, when tested in accordance with ASTM E84 or UL 723.

#### **2.2. GLASS FIBER**

- A. Manufacturers:

1. CertainTeed Corporation: [www.certainteed.com](http://www.certainteed.com).
  2. Johns Manville Corporation: [www.jm.com](http://www.jm.com).
  3. Knauf Insulation; Earthwool 1000 Degree Pipe Insulation: [www.knaufinsulation.com](http://www.knaufinsulation.com).
- B. Insulation: ASTM C547 and ASTM C795; rigid molded, noncombustible.
1. 'K' Value: ASTM C177, 0.24 at 75 degrees F.
  2. Maximum Service Temperature: 850 degrees F.
  3. Maximum Moisture Absorption: 0.2 percent by volume.
- C. Insulation: ASTM C547 and ASTM C795; rigid molded, noncombustible, with wicking material to transport condensed water to the outside of the system for evaporation to the atmosphere.
1. 'K' Value: ASTM C177, 0.23 at 75 degrees F.
  2. Maximum Service Temperature: 220 degrees F.
  3. Maximum Moisture Absorption: 0.2 percent by volume.
- D. Insulation: ASTM C547 and ASTM C795; semi-rigid, noncombustible, end grain adhered to jacket.
1. 'K' Value: ASTM C177, 0.24 at 75 degrees F.
  2. Maximum Service Temperature: 650 degrees F.
  3. Maximum Moisture Absorption: 0.2 percent by volume.
- E. Vapor Barrier Jacket: White kraft paper with glass fiber yarn, bonded to aluminized film; moisture vapor transmission when tested in accordance with ASTM E96/E96M of 0.02 perm-inches.
- F. Tie Wire: 0.048 inch stainless steel with twisted ends on maximum 12 inch centers.

### 2.3. CELLULAR GLASS

- A. Insulation: ASTM C552, Type II.
1. 'K' Value: Grade 6, 0.35 at 100 degrees F.
  2. Service Temperature: Up to 800 degrees F.
  3. Water Vapor Permeability: 0.005 perm inch.
  4. Water Absorption: 0.5 percent by volume, maximum.

### 2.4. FLEXIBLE ELASTOMERIC CELLULAR INSULATION

- A. Manufacturer:
1. Aeroflex USA, Inc: [www.aeroflexusa.com](http://www.aeroflexusa.com).
  2. Armacell LLC; AP Armaflex: [www.armacell.us](http://www.armacell.us).
  3. K-Flex USA LLC; K-Flex Titan: [www.kflexusa.com](http://www.kflexusa.com).
- B. Insulation: Preformed flexible elastomeric cellular rubber insulation complying with ASTM C534/C534M Grade 1; use molded tubular material wherever possible.
1. Minimum Service Temperature: Minus 40 degrees F.

2. Maximum Service Temperature: 180 degrees F.
3. Connection: Waterproof vapor barrier adhesive.

C. Elastomeric Foam Adhesive: Air dried, contact adhesive, compatible with insulation.

## 2.5. JACKETS

### A. PVC Plastic.

1. Jacket: One piece molded type fitting covers and sheet material, off-white color.
  - a. Minimum Service Temperature: 0 degrees F.
  - b. Maximum Service Temperature: 150 degrees F.
  - c. Moisture Vapor Permeability: 0.002 perm inch, maximum, when tested in accordance with ASTM E96/E96M.
  - d. Thickness: 10 mil.
  - e. Connections: Brush on welding adhesive.
2. Covering Adhesive Mastic: Compatible with insulation.

### B. Aluminum Jacket: ASTM B209 (ASTM B209M) formed aluminum sheet.

1. Thickness: 0.016 inch sheet.
2. Finish: Smooth.
3. Joining: Longitudinal slip joints and 2 inch laps.
4. Fittings: 0.016 inch thick die shaped fitting covers with factory attached protective liner.

## PART 3 EXECUTION

### 3.1. EXAMINATION

- A. Verify that piping has been tested before applying insulation materials.
- B. Verify that surfaces are clean and dry, with foreign material removed.

### 3.2. INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Insulated pipes conveying fluids below ambient temperature; insulate entire system including fittings, valves, unions, flanges, strainers, flexible connections, and expansion joints.
- C. Glass fiber insulated pipes conveying fluids below ambient temperature:
  1. Provide vapor barrier jackets, factory-applied or field-applied; secure with self-sealing longitudinal laps and butt strips with pressure sensitive adhesive. Secure with outward clinch expanding staples and vapor barrier mastic.
  2. Insulate fittings, joints, and valves with molded insulation of like material and thickness as adjacent pipe. Finish with glass cloth and vapor barrier adhesive or PVC fitting covers.

- D. For hot piping conveying fluids 140 degrees F or less, do not insulate flanges and unions at equipment, but bevel and seal ends of insulation.
- E. Glass fiber insulated pipes conveying fluids above ambient temperature.
  - 1. Provide standard jackets, with or without vapor barrier, factory-applied or field-applied. Secure with self-sealing longitudinal laps and butt strips with pressure sensitive adhesive. Secure with outward clinch expanding staples.
  - 2. Insulate fittings, joints, and valves with insulation of like material and thickness as adjoining pipe. Finish with glass cloth and adhesive or PVC fitting covers.
- F. Inserts and Shields:
  - 1. Application: Piping 1-1/2 inches diameter or larger.
  - 2. Shields: Galvanized steel between pipe hangers or pipe hanger rolls and inserts.
  - 3. Insert location: Between support shield and piping and under the finish jacket.
  - 4. Insert Configuration: Minimum 6 inches long, of same thickness and contour as adjoining insulation; may be factory fabricated.
  - 5. Insert Material: Hydrous calcium silicate insulation or other heavy density insulating material suitable for the planned temperature range.
- G. Pipe Exposed in Mechanical Equipment Rooms or Finished Spaces (less than 10 feet above finished floor): Finish with aluminum jacket.

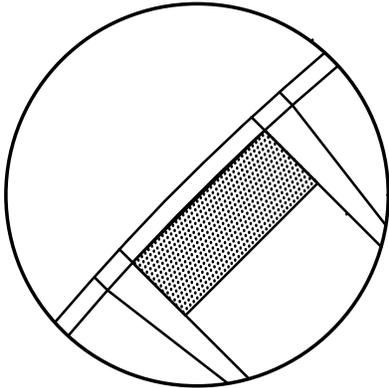
### 3.3. SCHEDULE

- A. Condensate and Equipment Drain Water below 60 Deg. F (16 Deg. C):
  - 1. All pipe sizes: Insulation shall be the following:
    - a. Flexible elastomeric: 3/4 inch (19 mm) thick.
- B. Chilled Water:
  - 1. 6" and smaller: Insulation shall be one of the following:
    - a. Cellular glass: 1 inch thick.
    - b. Mineral-fiber, preformed pipe, Type I: 1 inch thick.
    - c. Flexible elastomeric: 1-inch thick.
- C. Heating Water Supply and Return:
  - 1. NPS 1-1/4 and smaller: Insulation shall be the following:
    - a. Mineral-fiber, preformed pipe, Type I: 1-1/2 inch thick.
  - 2. NPS 1-1/2 and larger: Insulation shall be one of the following:
    - a. Mineral-fiber, preformed pipe, Type I: 2 inches thick.
- D. Refrigerant Suction, Liquid, and Hot-Gas Piping and Tubing:
  - 1. NPS 1-1/2 and smaller: Insulation shall be the following:
    - a. Cellular glass: 1 inch (25 mm) thick.

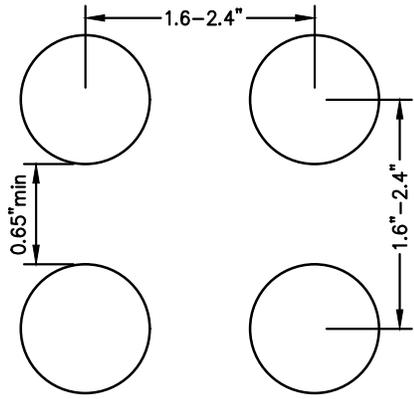
- b. Flexible elastomeric: 1 inch (25 mm) thick.
- 2. NPS 1-5/8 and larger:
  - a. Cellular glass: 1-1/2 inches thick.
  - b. Flexible elastomeric: 1-1/2 inches thick.

**END OF SECTION**

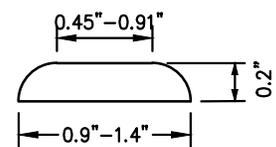
awyatt | j:\2018\0180821.00 - Missouri Veterans Home\04\_Drawings\Addendum 4 - Dome And Ramp Detail - 0180821.00.dwg | 1/27/2020 4:02 PM |



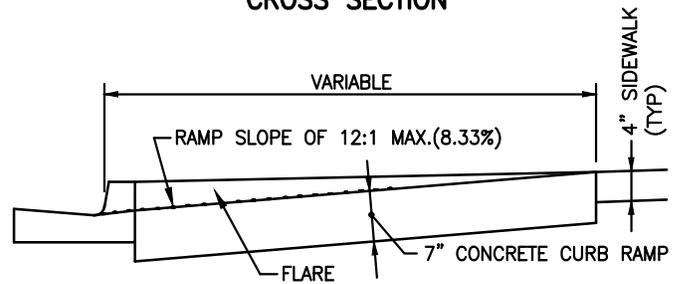
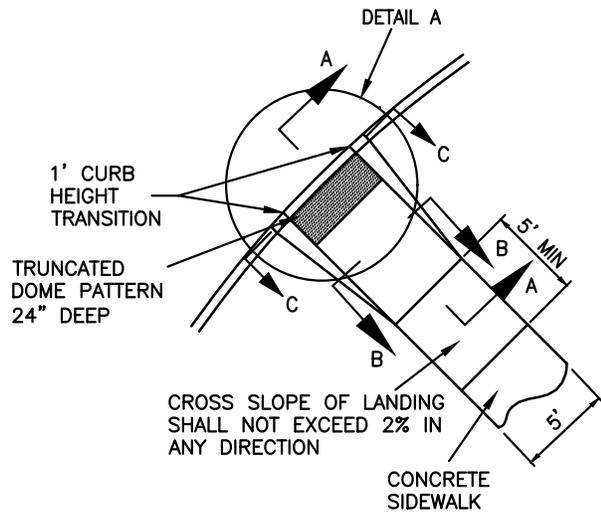
**DETAIL A**



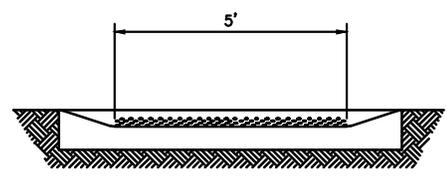
**TRUNCATED DOMES SPACING**



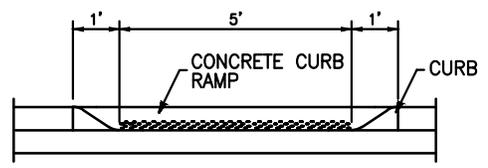
**TRUNCATED DOMES CROSS SECTION**



**SECTION A-A**



**SECTION B-B**



**SECTION C-C**

**GENERAL NOTES:**  
 1:12 SLOPE MAX ON ALL CONCRETE CURB RAMPS, PROVIDE A LANDING THE SAME WIDTH AS CURB RAMP AND 5' LONG ADJACENT TO CURB RAMP WITH MAXIMUM 2% SLOPE IN ANY DIRECTION.  
 PROVIDE 6" TYPE 1 AGGREGATE BASE UNDER CURB RAMPS

**13**

# Truncated Dome and Ramp Detail

Scale: Not To Scale

**Farnsworth**  
 GROUP  
 20 ALLEN AVENUE, SUITE 200  
 ST LOUIS, MISSOURI 63119  
 (314) 962-7900 / info@f-w.com

**UPGRADES AND RENOVATIONS MISSOURI VETERANS HOME**  
 2400 Veterans Memorial Dr.  
 Cape Girardeau, MO 63701  
**ADDENDUM 4**

PROJECT NO.: U1805-01  
 DRAWN: BAW  
 REVIEWED: MSH  
 DATE: 1/24/2020  
**SD-C-008.1**

1

## PAD FOOTING SCHEDULE

TYPE MARK	WIDTH	LENGTH	DEPTH	LONG	TRANS	REMARKS
F2	2' - 0"	2' - 0"	1' - 0"	(3) #6 T&B	(3) #6 T&B	
F3	3' - 0"	3' - 0"	1' - 0"	(4) #6 T&B	(4) #6 T&B	
F4	4' - 0"	4' - 0"	1' - 0"	(5) #6 T&B	(5) #6 T&B	
F5	5' - 0"	5' - 0"	1' - 0"	#6 AT 12" O.C. T&B	#6 AT 12" O.C. T&B	
F5A	5' - 0"	5' - 0"	1' - 6"	#6 AT 12" O.C. T&B	#6 AT 12" O.C. T&B	
F6A	6' - 0"	6' - 0"	1' - 6"	#6 AT 12" O.C. T&B	#6 AT 12" O.C. T&B	
F7	7' - 0"	7' - 0"	1' - 6"	#6 AT 12" O.C. T&B	#6 AT 12" O.C. T&B	
F75	7' - 6"	7' - 6"	1' - 6"	#6 AT 12" O.C. T&B	#6 AT 12" O.C. T&B	

1/22/2020 10:06:53 AM



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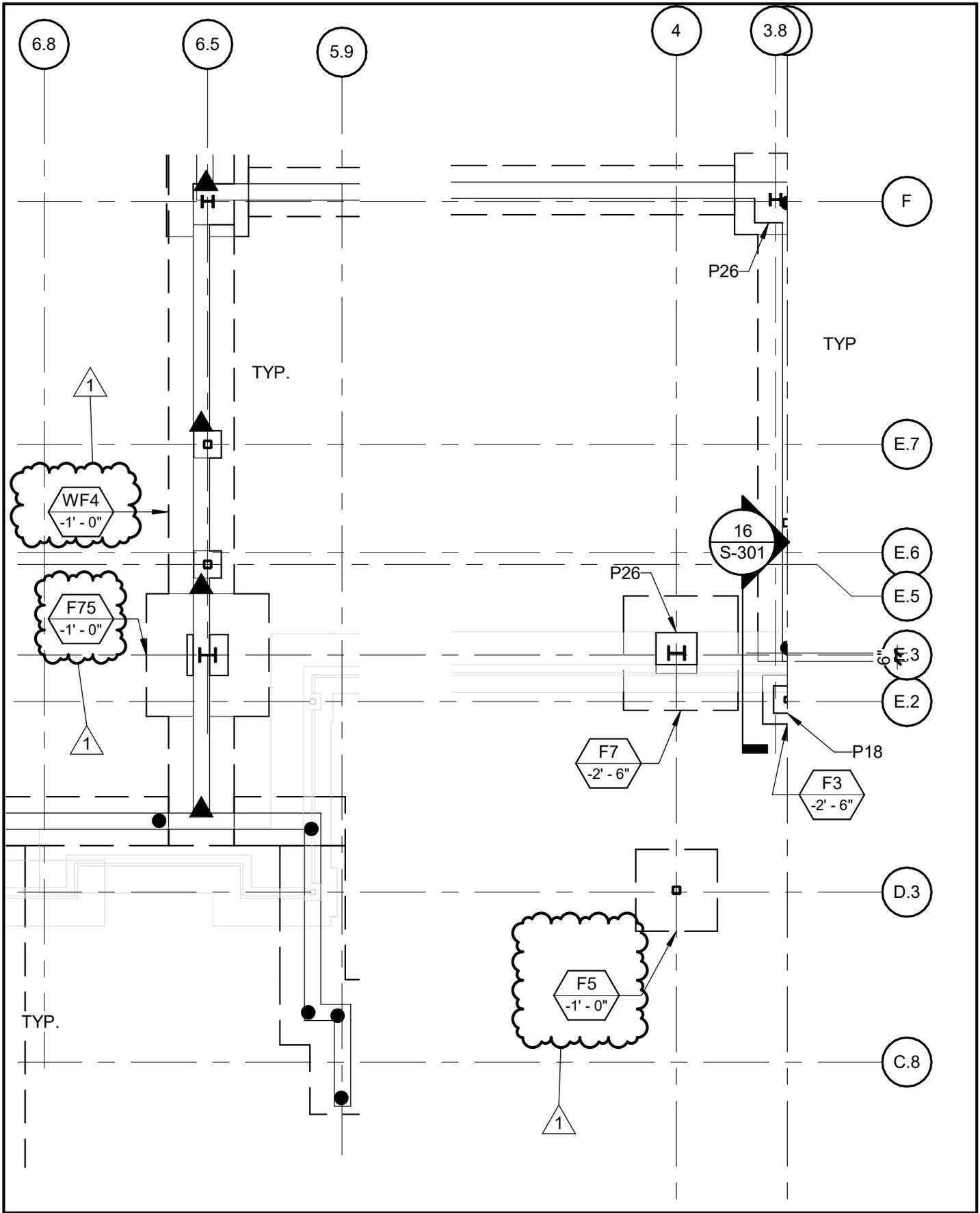
### UPGRADES AND RENOVATIONS MISSOURI VETERANS HOME

2400 Veterans Memorial Dr,  
Cape Girardeau, MO 63701

#### ADDENDUM 4

PROJECT NO.: U1805-01  
DRAWN: AMC  
REVIEWED: DKS  
DATE: 01/21/20

**SD-S-001.1**



1/22/2020 10:06:54 AM



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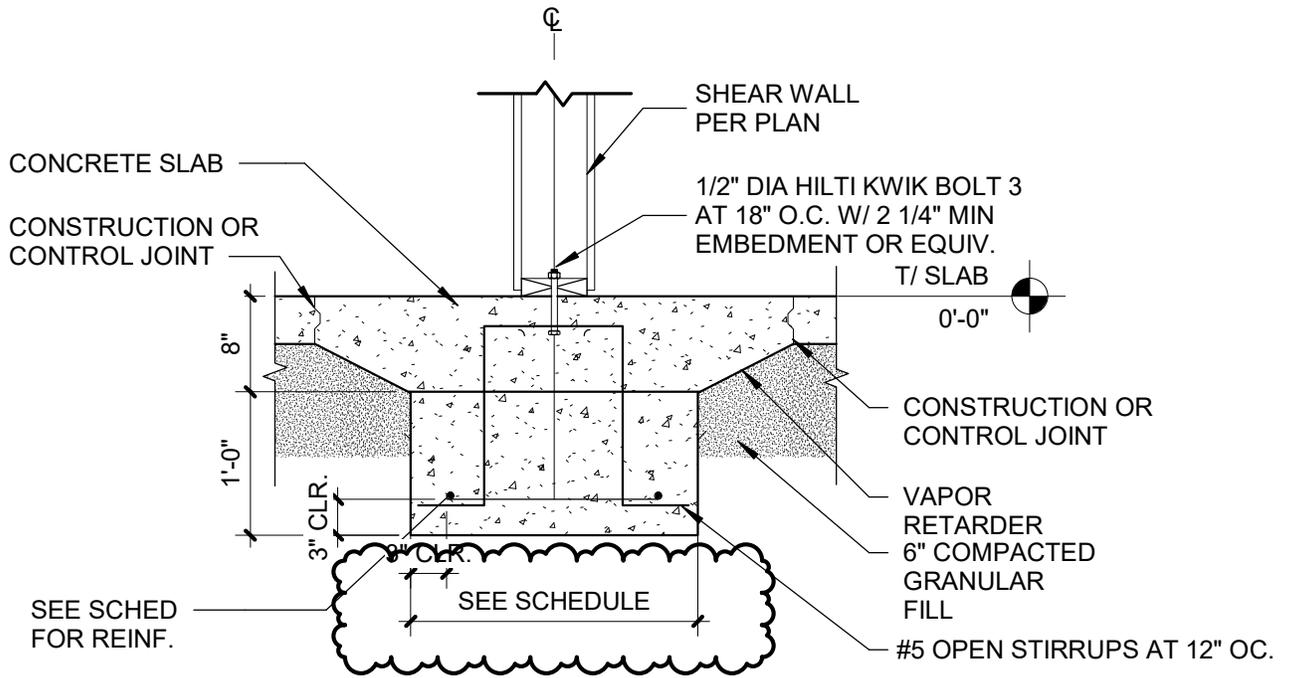
**UPGRADES AND RENOVATIONS MISSOURI VETERANS HOME**

2400 Veterans Memorial Dr,  
 Cape Girardeau, MO 63701

**ADDENDUM 4**

PROJECT NO.: U1805-01  
 DRAWN: AMC  
 REVIEWED: DKS  
 DATE: 01/21/20

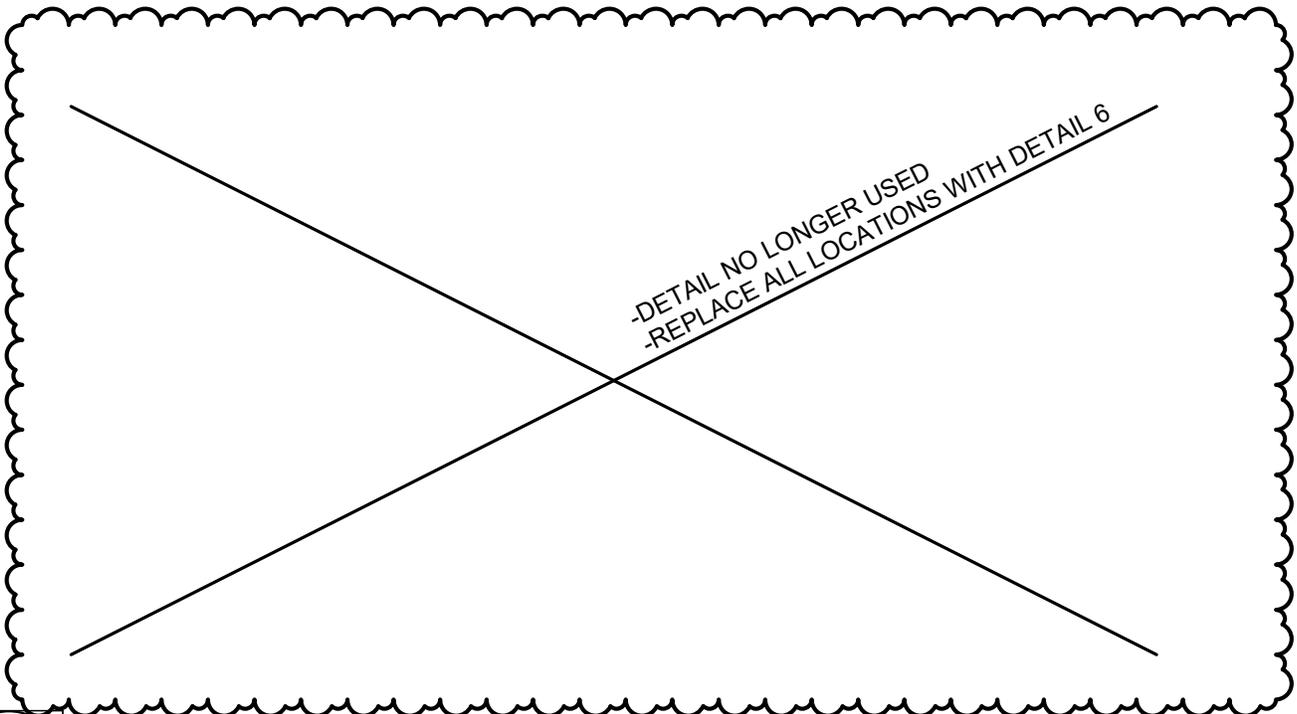
**SD-S-101.1**



**6**

**INT SHEAR WALL FOUNDATION - ADD-4**

Scale: 3/4" = 1'-0"



**15**

**THICKENED SLAB DETAIL - ADD-4**

Scale: 3/4" = 1'-0"

1/27/2020 10:29:54 AM

**Farnsworth**  
GROUP  
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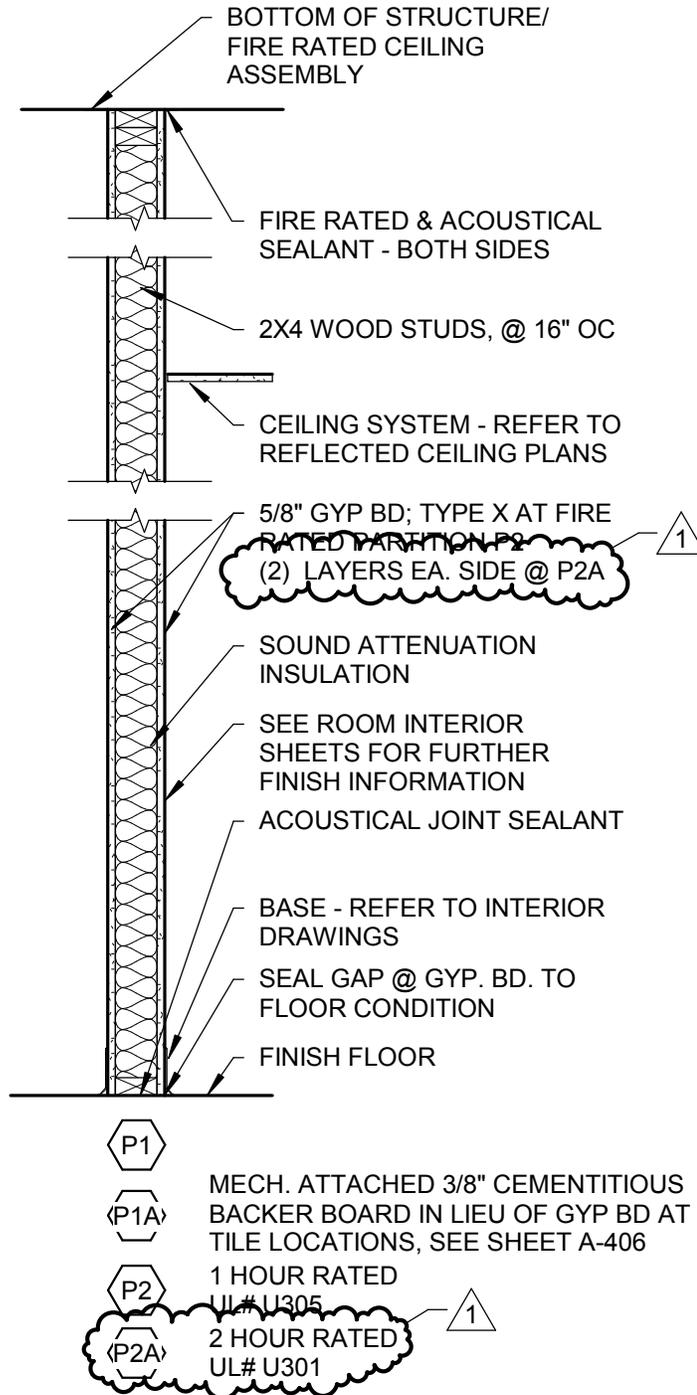
**UPGRADES AND RENOVATIONS MISSOURI VETERANS HOME**

2400 Veterans Memorial Dr,  
Cape Girardeau, MO 63701

**ADDENDUM 4**

PROJECT NO.: U1805-01  
DRAWN: AMC  
REVIEWED: DKS  
DATE: 01/27/20

**SD-S-301.1**



**1**

**PARTITION TYPES**

Scale: 3/4" = 1'-0"

1/28/2020 9:50:32 AM



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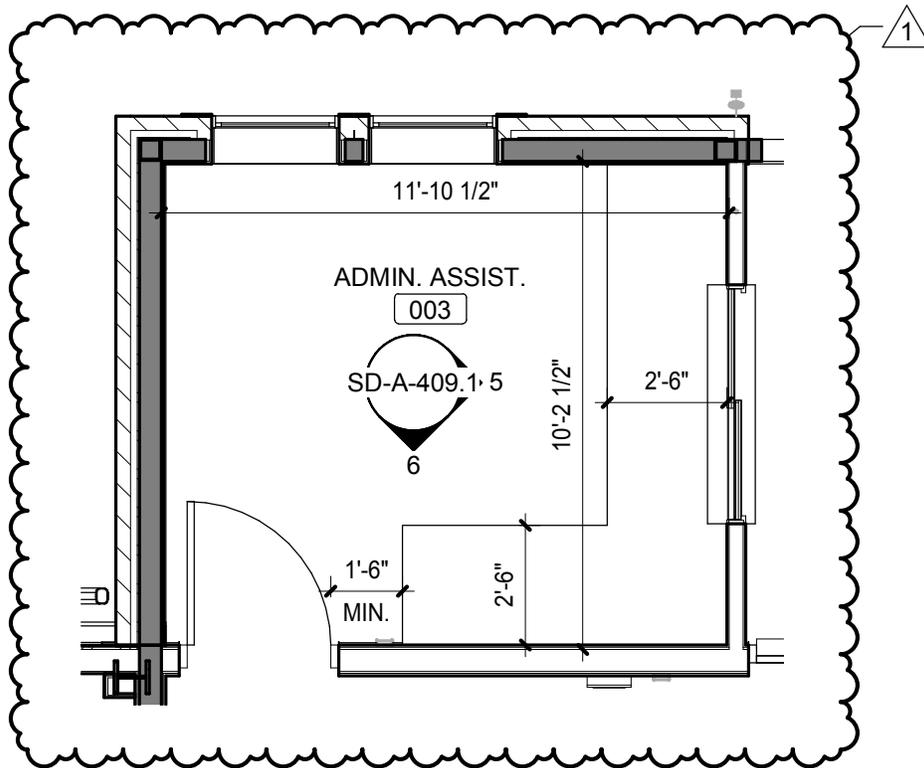
**UPGRADES AND RENOVATIONS MISSOURI VETERANS HOME**

2400 Veterans Memorial Dr.  
Cape Girardeau, MO 63701

**ADDENDUM 4**

PROJECT NO.: U1805-01  
DRAWN: JJH  
REVIEWED: JJH  
DATE: 01/28/2020

**SD-A-001.1**



3

**ENLARGED ADMIN. ASSIST.**

Scale: 1/4" = 1'-0"

1/28/2020 9:50:32 AM

**Farnsworth**  
GROUP  
20 ALLEN AVENUE, SUITE 200  
ST LOUIS, MISSOURI 63119  
(314) 962-7900 / info@f-w.com

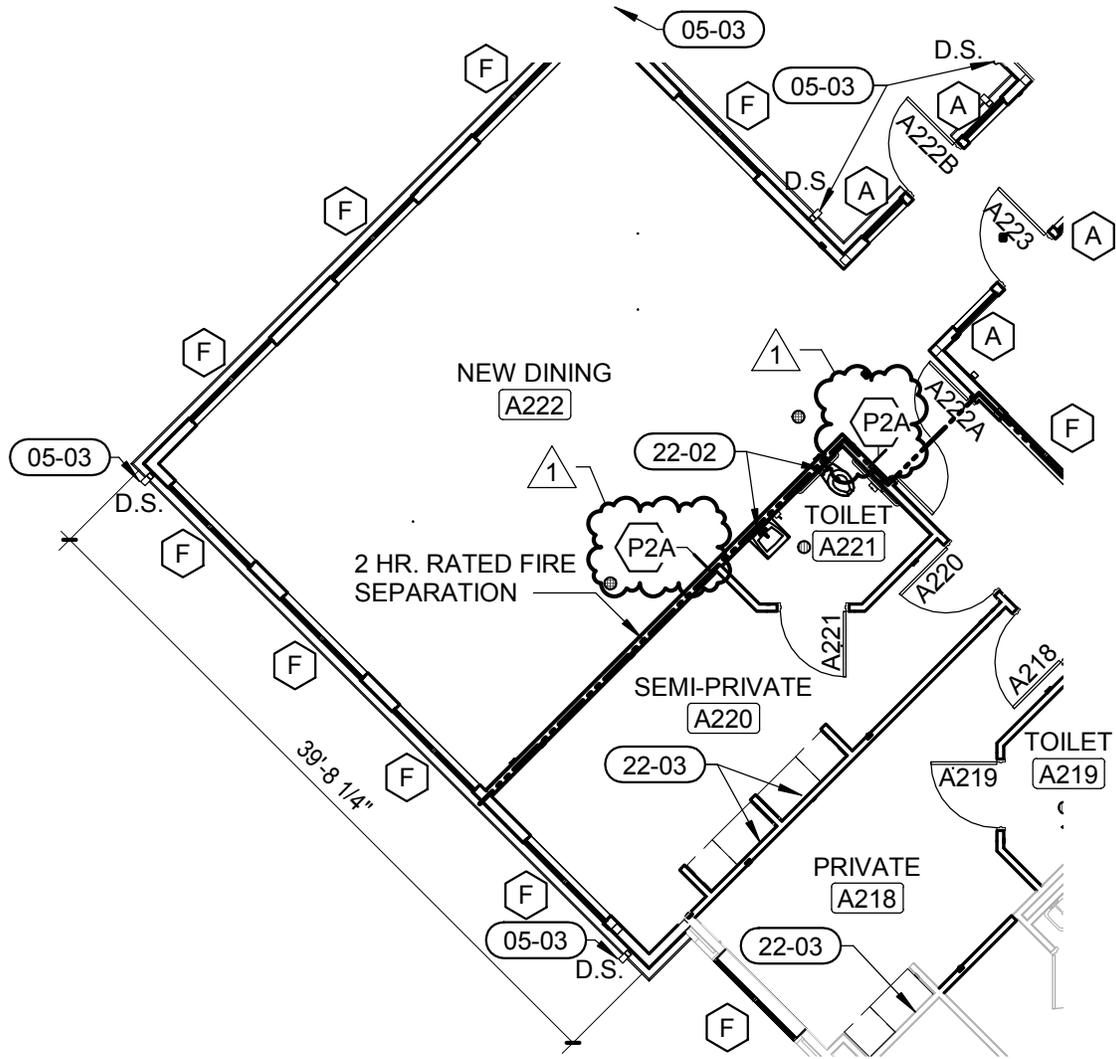
**UPGRADES AND RENOVATIONS MISSOURI VETERANS HOME**

2400 Veterans Memorial Dr.  
Cape Girardeau, MO 63701

**ADDENDUM 4**

PROJECT NO.: U1805-01  
DRAWN: SLV  
REVIEWED: NRB  
DATE: 01/28/2020

**SD-A-116.1**



1

# ENLARGED WING A DINING

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

1/28/2020 9:50:32 AM



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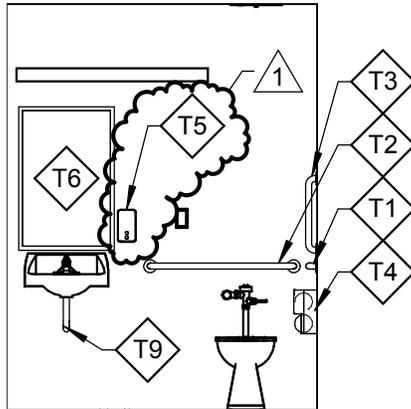
## UPGRADES AND RENOVATIONS MISSOURI VETERANS HOME

2400 Veterans Memorial Dr.  
Cape Girardeau, MO 63701

### ADDENDUM 4

PROJECT NO.: U1805-01  
DRAWN: JJH  
REVIEWED: JJH  
DATE: 01/28/2020

**SD-A-116.2**



4

## TOILET 1 ELEVATION

Scale: 1/4" = 1'-0"

1/28/2020 9:50:32 AM



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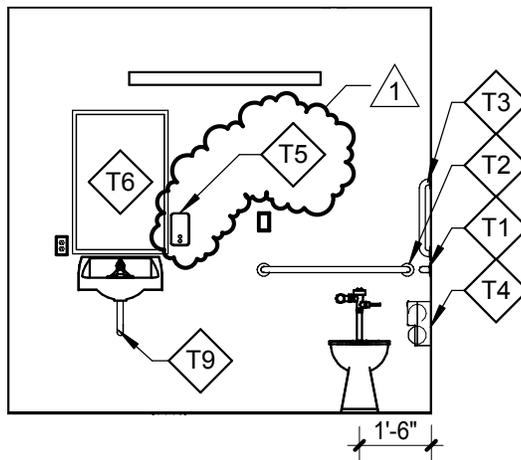
### UPGRADES AND RENOVATIONS MISSOURI VETERANS HOME

2400 Veterans Memorial Dr.  
Cape Girardeau, MO 63701

ADDENDUM 4

PROJECT NO.: U1805-01  
DRAWN: SLV  
REVIEWED: NRB  
DATE: 01/28/2020

**SD-A-118.1**



15

## WING A TOILET, TYP 2

Scale: 1/4" = 1'-0"

1/28/2020 9:50:33 AM



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### UPGRADES AND RENOVATIONS MISSOURI VETERANS HOME

2400 Veterans Memorial Dr.  
Cape Girardeau, MO 63701

#### ADDENDUM 4

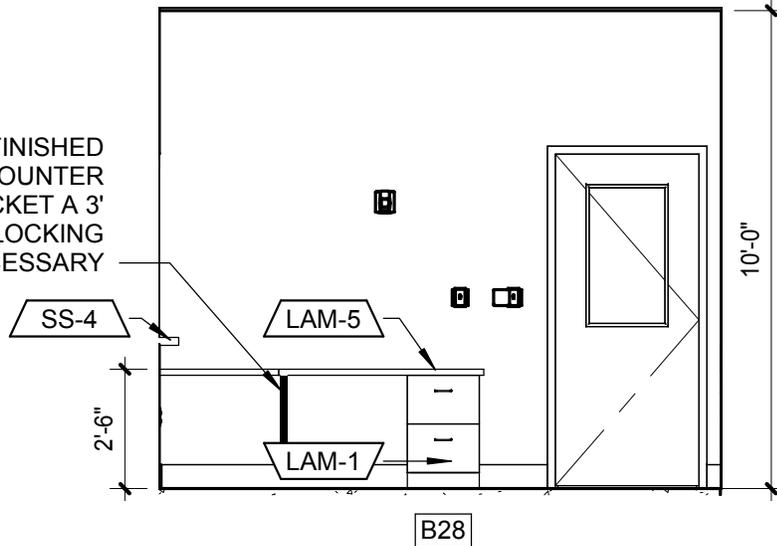
PROJECT NO.: U1805-01  
DRAWN: SLV  
REVIEWED: NRB  
DATE: 01/28/2020

**SD-A-408.1**

# CASEWORK SCHEDULE

NO.	WIDTH	HEIGHT	DEPTH	COUNT	DESCRIPTION
BASE CABINETS					
B28	1' - 6"	2' - 4 1/2"	2' - 0"	1	TWO FILE DRAWERS
B29	1' - 6"	2' - 4 1/2"	2' - 0"	1	TO BOX DRAWERS, ONE FILE DRAWER

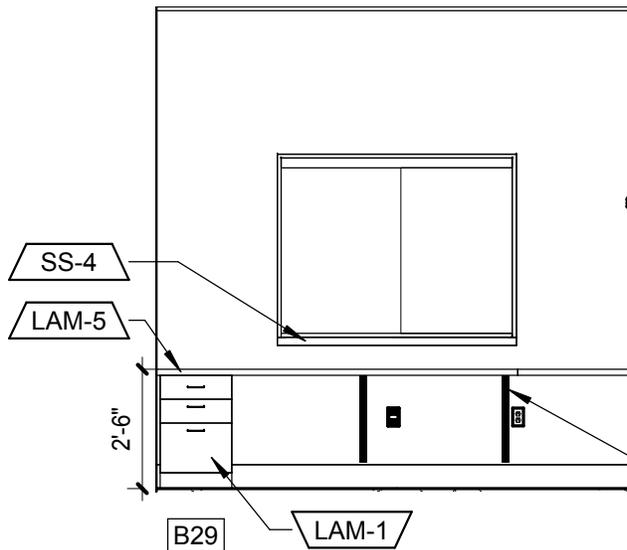
PROVIDE A PREFINISHED ADA COMPLIANT COUNTER SUPPORT BRACKET A 3' O.C. MAX WITH BLOCKING AS NECESSARY



6

## ADMIN. ASSIST. ELEVATION - SOUTH

Scale: 1/4" = 1'-0"



PROVIDE A PREFINISHED ADA COMPLIANT COUNTER SUPPORT BRACKET A 3' O.C. MAX WITH BLOCKING AS NECESSARY

5

## ADMIN. ASSIST. ELEVATION - EAST

Scale: 1/4" = 1'-0"

1/28/2020 9:50:33 AM



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UPGRADES AND RENOVATIONS MISSOURI VETERANS HOME

2400 Veterans Memorial Dr.  
Cape Girardeau, MO 63701

ADDENDUM 4

PROJECT NO.: U1805-01  
DRAWN: SLV  
REVIEWED: NRB  
DATE: 01/28/2020

SD-A-409.1

# DOOR SCHEDULE

DOOR				DOOR FRAME				HEAD	JAMB	THRESH	HDWR	REMARKS		
NO.	WIDTH	HEIGHT	THICK	MAT'L	FINISH	ELEV	MAT'L	FINISH	ELEV	DETAIL NO.	DETAIL NO.	DETAIL NO.	LBL	SET
044B	2'-8"	6'-8"	1 3/4"	WD	STN	-	-	-	-	9/A-602	4/A-602			23.0
050B	4'-0"	6'-8"	1 3/4"	WD	STN	-	-	-	-	9/A-602	4/A-602			24.0
71	3'-0"	7'-0"	1 3/4"	IRD	PF	F	HM	PNT	1	6/A-602	1/A-602			19.0
A205	3'-8"	7'-0"	1 3/4"	IRD	PF	F	HM	PNT	1	6/A-602	1/A-602			18.0
B106	3'-0"	7'-0"	1 3/4"	IRD	PF	F	HM	PNT	1	6/A-602	1/A-602			19.0
B108	3'-0"	7'-0"	1 3/4"	IRD	PF	F	HM	PNT	1	6/A-602	1/A-602			19.0
B205	3'-8"	7'-0"	1 3/4"	IRD	PF	F	HM	PNT	1	6/A-602	1/A-602			18.0
C215	3'-8"	7'-0"	1 3/4"	IRD	PF	F	HM	PNT	1	6/A-602	1/A-602			18.0
C314	3'-0"	7'-0"	1 3/4"	IRD	PF	F	HM	PNT	1	6/A-602	1/A-602			19.0
C316	3'-0"	7'-0"	1 3/4"	IRD	PF	F	HM	PNT	1	6/A-602	1/A-602			19.0
P001	3'-6"	7'-0"	1 3/4"	HM	PNT	F	HM	PNT	2	22/A-602	21/A-602			21.1
P002	3'-6"	7'-0"	1 3/4"	HM	PNT	F	HM	PNT	2	22/A-602	21/A-602			21.1
P003	3'-6"	7'-0"	1 3/4"	HM	PNT	F	HM	PNT	2	22/A-602	21/A-602			2.0

PROJECT NO.: U1805-01  
 DRAWN: SLV  
 REVIEWED: NRB  
 DATE: 01/28/2020

**SD-A-601.2**

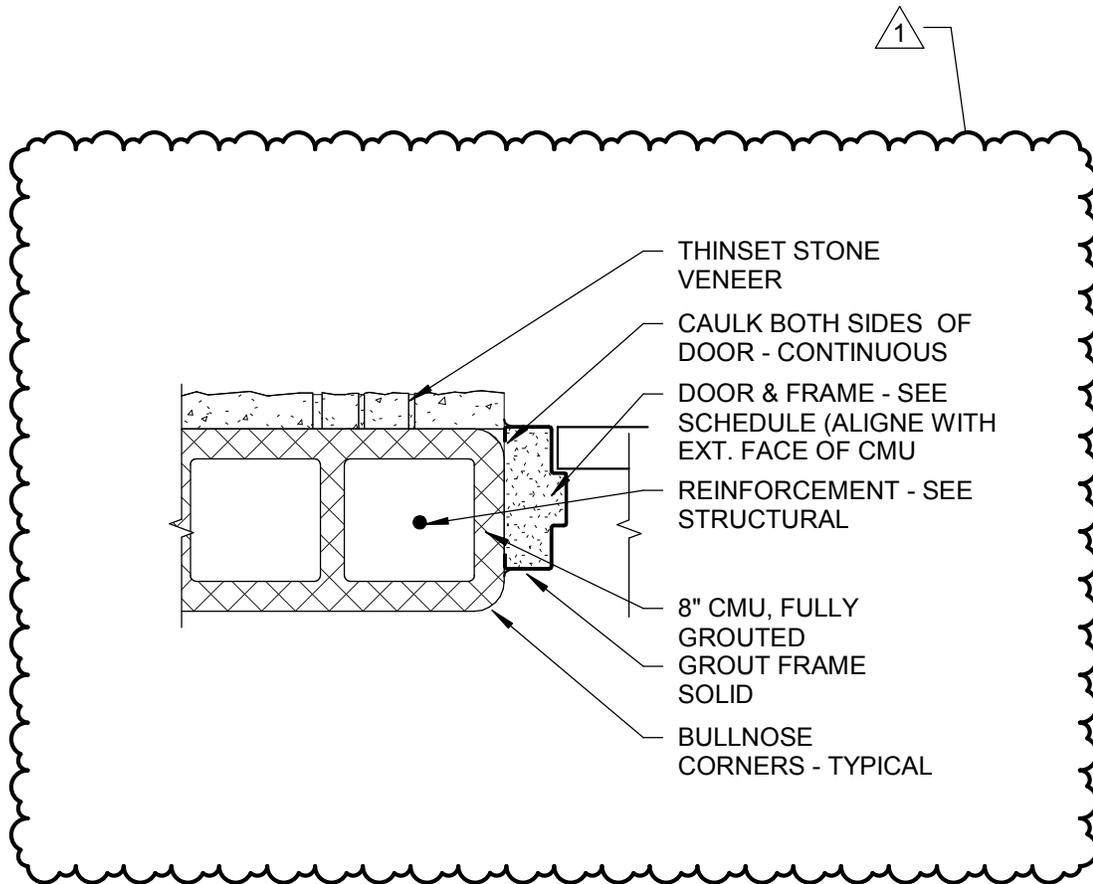
## UPGRADES AND RENOVATIONS MISSOURI VETERANS HOME

2400 Veterans Memorial Dr.  
 Cape Girardeau, MO 63701

### ADDENDUM 4



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21

## JAMB DETAIL @ CMU

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

1/28/2020 9:50:33 AM



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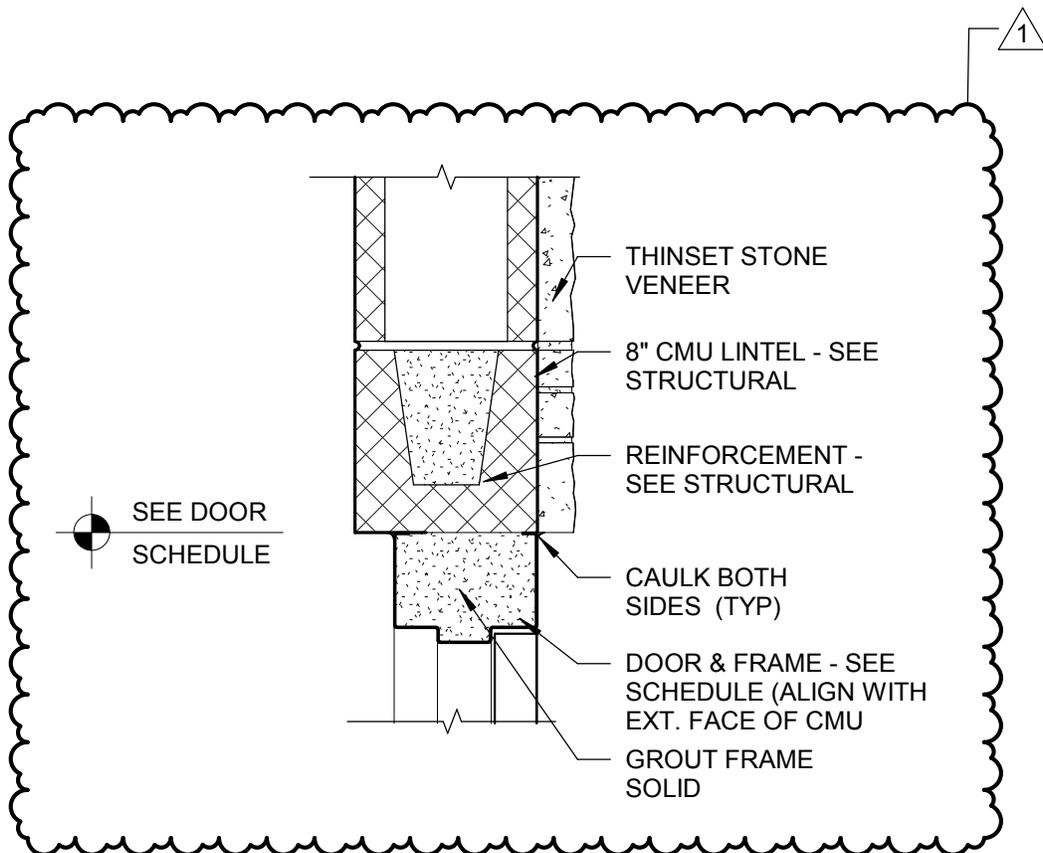
### UPGRADES AND RENOVATIONS MISSOURI VETERANS HOME

2400 Veterans Memorial Dr.  
Cape Girardeau, MO 63701

ADDENDUM 4

PROJECT NO.: U1805-01  
DRAWN: JHH  
REVIEWED: JHH  
DATE: 01/28/2020

**SD-A-602.1**



22

## HEAD DETAIL @ CMU

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

1/28/2020 9:50:33 AM



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### UPGRADES AND RENOVATIONS MISSOURI VETERANS HOME

2400 Veterans Memorial Dr.  
Cape Girardeau, MO 63701

ADDENDUM 4

PROJECT NO.: U1805-01

DRAWN: JJH

REVIEWED: JJH

DATE: 01/28/2020

**SD-A-602.2**

## LUMINAIRE SCHEDULE

TYPE	MANUFACTURER	CATALOG NUMBER	LAMP DESCRIPTION	VOLTAGE	LOAD (VA)	FINISH	MOUNTING	DESCRIPTION
SE	STERNBERG LIGHTING US ARCHITECTURAL LIGHTING HESS AMERICA LIGHTING	PT-1750LED-DR-1L40T3- MDL06-WA-PEC/BKT POLE: 52-10-TFP6.188/BKT	LED	120 V	36	BLACK	POLE	POLE MOUNTED LUMINAIRE

2



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MISSOURI VETERANS COMMISSION  
UPGRADES AND RENOVATIONS MISSOURI VETERANS HOME

**Partial Electrical Schedules**  
ADD 04

PROJECT NO.: U1805-01  
DRAWN: BPH  
REVIEWED: BMS  
DATE: 01/28/2020

**SD-E-602.2**