Michigan

Department of Transportation

SPECIAL PROVISION

FOR”

**PREFABRICATED STICK-BUILT STORAGE BUILDING**

RSD:JRM 1 of 3 APPR:SCK:MJF:05-30-24

**a. Description.** This work consists of furnishing and installing a Prefabricated stick-built storage building at the location shown on the plans and as described in this special provision. Ensure all work is done in accordance with all current building codes and the standard specifications.

1. Qualified Suppliers Experience Clause. Building fabricator must have at least 5 years’ experience in the fabrication and setting of transportable ”Prefabricated stick-built buildings.

2. Design Criteria. Stick-built storage building must meet the following criteria:

A. Dimensions.

(1) Exterior Dimensions. 10 feet by 12 feet by 8 feet-8 inches.

(2) Interior Dimensions. 9 feet-4 inches by 11 feet-4 inches by 8 feet-0 inches.

B. Design Loads.

(1) Standard wind loading. 110 mph

(2) Standard live roof load 35 psf

(3) Standard floor load. 250 psf

C. Metal Roof. Ensure roof is built with a 5:12 pitch. The roof must extend a minimum of 12 inches beyond the wall panel all around. Roof to have an integral architectural ribbed edge. Ensure roof panels are attached to the building framing via metal roofing screws with rubber washers.

D. Roof is to be covered with synthetic roofing material prior to the installation of the roofing panels as per manufacturer installation instructions.

E. Walls are to be covered with house wrap as per manufacturer instructions prior to wall metal being installed.

F. Finishes. Interior and exterior building walls to be sheeted with 7/16-inch Oriented Strand Board (OSB). OSB is to be nailed with 2 inch ring shank at a spacing no greater than 12 inches through the field and 6 inches on seam. Exterior of building to be finished with tan metal siding on all exterior wall surfaces and gable ends. Wall panels are to be screwed to the building framing via metal siding screws with rubber washers.

G. Doors. Install a single 4 foot wide steel door complete with stainless hinges, locking and handle hardware. Door hinge fasteners are to penetrate a minimum of 3.5 inches into the jack stud framing via #8 or better screws approved for wolmanized lumber contact. The door is to be installed as per plans for side and location.

**b. Materials.**

1.Lumber is all #2 grade or better southern pine or spruce.

2.Ensure nails or screws are rated for wolmanized lumber when applicable.

3. Ensure roof and siding screws are designed for metal roof and siding installation (with rubber washers) in accordance with accepted industry construction methods.

4. Vents. Two screened covered aluminum gable end vents to be installed on each end as shown on the plans.

5. Doors and Frames. Ensure doors and frames comply with *Steel Door Institute Recommended Specifications for Standard Steel Doors and Frames* *(SDI-100)*. Equip the building with a single 4 foot steel door by 1¾ inch, 18-gauge galvanized/insulated right hand reverse metal doors with 16-gauge galvanized frames. Ensure doors and frames are painted with one coat of rust inhibitive primer and one finish coat of enamel paint: color Yorktown Brown.

6. Door Hardware.

A. Handle. Commercial grade, stainless steel, 8½ inch by 2 inch.

B. Hinges. Use 4½ inch by 4½ inch, stainless steel with non-removable hinge pins, 3 per door or equal.

C. Lock Set. Match cylinder type of rest area utility room door.

D. Surface Bolt, Upper and Lower. Commercial grade, stainless steel satin chrome finish or equal.

E. Astragal. Heavy duty weatherproofing strip around door.

F. Threshold. Commercial grade, raised interior, extruded aluminum threshold with neoprene seal or equal.

G. Drip Cap. Painted aluminum.

**c. Construction.**

1. Shop drawings. Submit PDF shop drawings of the storage building for MDOT review and approval prior to the start of fabrication.

2. Follow manufacturer recommended site preparation requirements for placement.

3. Place Prefabricated Stick-Built Storage Building on 6 inch by 10 foot-8 inch by 12 foot-8 inch concrete slab, paid for as Sidewalk, Conc, 6 inch. Concrete slab edge to have a 12-inch by 16-inch rat wall turndown to accept anchor bolts.

4. Reinforcement. Concrete pad to be reinforced with 6 by 6 10-gauge wire mesh. Rat walls to have a minimum of 2- #4 bars running continuous with the footing. Corners are bent with a 12-inch overlap.

5. Minimize disturbance to the existing ground surrounding concrete slab and avoid damage to existing vegetation. Ensure any damage to surrounding turf or vegetation is repaired or replaced at no additional cost to the contract.

**d. Measurement and Payment.** The completed work, as described, will be measured as a lump sum and paid for at the contract price using the following pay item:

**Pay Item Pay Unit**

Prefabricated Stick-Built Storage Building Lump Sum

**Prefabricated Stick-Built Storage Building** includes fabricating, delivering, and installing the prefabricated building on site.