

152.4

Ownership of the building(s) remains with the Contractor. Maintaining and furnishing the buildings(s) after the date of Final Acceptance of the Project is not required.

152.4 Measurement

The actual number of field laboratories furnished according to this Specification is measured separately for each laboratory. There will be no measurement or payment for laboratories furnished at base, asphaltic concrete, or Portland cement concrete central mix plants.

152.4.01 Limits

General Provisions 101 through 150.

152.5 Payment

Each field laboratory measured for payment as described in Subsection 152.4, is paid at the Contract Unit Price bid for each laboratory.

Payment is full compensation for the cost of all foundations, buildings, sheds, platforms, utilities, maintenance, sanitary facilities, removal, razing, heat, electricity, water, and site preparation and cleanup according to this Specification.

Payment for each field laboratory is made in two installments:

- Sixty-five percent of the contract price is paid when the Laboratory is ready for occupancy.
- Thirty-five percent of the contract price is paid when the Department finishes using the laboratory.

Payment will be made under:

| | | |
|--------------|------------------|----------|
| Item No. 152 | Field laboratory | Per each |
|--------------|------------------|----------|

152.5.01 Adjustments

General Provisions 101 through 150.

Section 153—Field Engineer’s Office

153.1 General Description

This work includes providing, furnishing, and maintaining field office buildings, when the Contract requires, before beginning construction and according to this Specification. The Contractor shall possess the building while the Department uses it. See Subsection 153.3.07, “Contractor Warranty and Maintenance.”

The Engineering personnel will use the building exclusively for as long as they consider necessary, but no longer than the date of Final Acceptance of the Project.

153.1.01 Definitions

General Provisions 101 through 150.

153.1.02 Related References

A. Standard Specifications

- Section 636—Highways Signs
- Section 643—Fence
- Section 910—Sign Fabrication
- Section 911—Sign Posts
- Section 912—Sign Blanks and Panels
- Section 913—Reflectorizing Materials

B. Referenced Documents

- NFPA-10A

153.1.03 Submittals

Before installing Project Office signs, submit a signage plan for this work to the Engineer for approval.

153.2 Materials

Ensure that all materials are of commercial grade. Sampling and testing is not required.

153.2.01 Delivery, Storage, and Handling

General Provisions 101 through 150.

153.3 Construction Requirements

153.3.01 Personnel

General Provisions 101 through 150.

153.3.02 Equipment

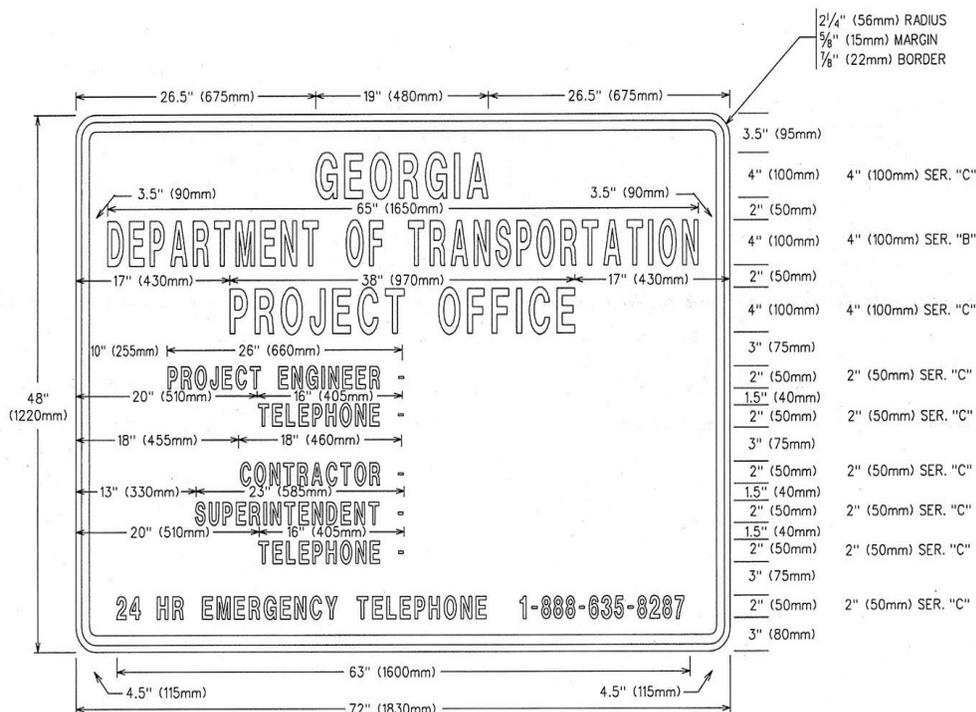
General Provisions 101 through 150.

153.3.03 Preparation

General Provisions 101 through 150.

153.3.04 Fabrication

Install a sign at the Department of Transportation Project Office in the format shown in Figure 1. This sign shall be plainly visible from the Project roadway. Fabricate and install the sign according to Section 636, Section 910, Section 911, Section 912, and Section 913.



SIGN SHALL HAVE BLACK LEGEND AND BORDER WITH STANDARD INTERSTATE WHITE REFLECTORIZED BACKGROUND
(SEE SECTIONS 636,910,911,912, AND 913 OF THE GEORGIA STANDARD SPECIFICATIONS)

Figure 1

Include in the walls and ceilings insulating material that is at least 1 1/4 in (32 mm) thick and made of rock wool, fiberglass, or other non-flammable material. Ensure that this material is in all inner wall and ceiling cavities.

- a. **Walls:** Cover both sides of the walls with 3/8 in (10 mm) plywood (exterior grade on the outside). No open cracks or knotholes are permitted. Standard wall construction is accepted if the walls are commercially produced.
 - b. **Roof:** Ensure that the roof is watertight and has a minimum slope of 1:12 in one direction, away from the door. Ensure that the roof's eaves are at least 12 in (300 mm). If the building is commercially produced, an arched roof without eaves is acceptable.
4. **Ceiling:** Cover the ceiling on all building types on the inside of the roof rafters with 3/8 in (10 mm) plywood if constructed on the project. A standard ceiling will be accepted if the building is commercially produced.
 5. **Floor:** Ensure that the floor is a minimum of 12 in (300 mm) above the ground on 2 in by 6 in (38 mm by 152 mm) joists. The floor may be timber. No open cracks or knotholes are permitted.
 6. **Heater:** Provide an oil fired, gas, or electric heater. But ensure that the heater can maintain an inside minimum temperature of 72 °F (22 °C).

Properly vent oil and gas units to the outside, provide adequate outside fuel storage, and connect with suitable feed lines.

Gas units may be connected to a commercial gas main, if available.

7. **Work Table:** Construct stable work tables with 3/4 in (19 mm) plywood. Cover the table tops with smooth masonite. The table top shall measure at least 3 ft by 7.5 ft (900 mm by 2250 mm) and be approximately 3 ft (900 mm) above the floor. Provide a Type 1 building with one table and a Type 3 building with at least three tables.
8. **Stools:** Equip each work table with two stools of the proper height for the table.
9. **Miscellaneous Storage Shelves:** Provide 6 linear ft (1800 linear mm) of storage shelves for books, etc. If two 3 ft (900 mm) shelves are furnished, place them at least 1 ft (300 mm) apart vertically. Provide Type 3 buildings with 6 ft (1800 linear mm) of shelves in each end.
10. **Toilet Facilities:** For Type 3 buildings, provide indoor toilet facilities that meet local sanitary codes. Type 1 buildings do not have toilet facilities.
11. **Utilities:** Connect all utilities including water, sewage, gas, electricity, and telephone service to their service source, ready for use, before the Engineer's occupancy. Type 1 buildings do not have utilities.
12. **Electric Service:** When noted on the Plans, provide electric service that is 120/240 volt, 1ø, 3 wire.
13. **Air Conditioner:** For Type 3 buildings, provide an air conditioning unit capable of cooling the building to maintain an inside temperature at least 20 °F (7 °C) cooler than the outside temperature. Type 1 buildings do not have air conditioners.
14. **Fire Extinguisher:** Equip each building with at least one approved fire extinguisher that meets the following requirements:
 - Multipurpose dry chemical type extinguisher
 - Underwriters Laboratory rating 4A-40BC

Mount the extinguisher(s) in a convenient and conspicuous location that is easily accessible from any part of the building.

Maintain the extinguisher(s) according to the requirements of NFPA-10A.

15. **Telephone:** Provide in each Type 3 building, one telephone line with two handsets (located on either end of the office). Install and maintain these lines for the life of the Project. Provide telephone access to the Local Area Telephone Service (LATS) only for outgoing, credit card, collect, and toll free calls. Ensure that the telephone can receive incoming non-collect long distance calls. Type 1 buildings do not have telephone service.

Provide with the telephone an automatic answering system that can give a greeting message, record incoming messages, and activate remotely.

C. Type 3 Offices

In addition to the requirements in Section B, furnish Type 3 offices with the following:

1. Project Sign—Complete as shown in Subsection 153.3.04, "Fabrication." Install at the Department of Transportation Project Office at a location plainly visible from the Project roadway.
2. Locking File Cabinet—Four-drawer, letter size, steel, fireproof, lockable, and must have at least two keys.
3. Plan Racks—Capable of holding two complete sets of Project Plans (not more than 100 sheets per hanger).
4. One Enclosed Closet—At least 3 ft by 3 ft (900 mm by 900 mm) with a lockable door and at least two keys.

153.3.06

5. Potable Water and Water Cooler—May be bottled water.
6. Outside Electrical Receptacle—When shown on the Plans, a weather-proof, exterior 220-volt electrical receptacle attached to a power source, or provisions to place a 2 ft by 2 ft by 5 ft (600 mm by 600 mm by 1500 mm) water tank will be supplied by the Department inside the Field Engineer’s Office.
7. Chain Link Fence—When shown on the Plans, a 6 ft (1.8 m) high chain link fence with an extension arm and barbed wire (as specified in Section 643).
Equip the fence with a matching gate according to Plan details. Include a positive-type locking device, padlock, and keys.
8. Security Light—When shown on the Plans, a 175-watt mercury security light with a photoelectric control where indicated by the Engineer.
9. Copier—Equip all Type 3 field offices with a black and white plain paper copier with paper and all chemicals or cassettes necessary for operation. Furnish the copier in good operating condition and maintain it throughout the life of the Contract. The copier shall remain the property of the Contractor.

153.3.06 Quality Acceptance

General Provisions 101 through 150.

153.3.07 Contractor Warranty and Maintenance

Whether the building is owned, leased, or rented, the Contractor who provides the building retains possession of each office building.

The Engineer will control the use, location, relocation, and removal of the building. When the building is no longer needed, remove each building from the Project at the Engineer’s direction.

153.4 Measurement

Field Engineer’s offices Types 1 and 3, as required by the Engineer, will be paid for per each; provided each was moved to or constructed on the Project according to the Specifications.

153.4.01 Limits

The offices are measured for payment on each project one time only regardless of the number of times they are moved at the Engineer’s direction.

153.5 Payment

The use of each office building (Types 1 and 3) eligible for payment is paid for at the Contract Unit Price bid. Payment is full compensation for the cost of the location, materials, design, construction, furnishings, maintenance, fuel, water, sewage disposal, electricity, telephone service (when required) , movements within the Project, and movement to and from the Project.

When electric current is required, the cost of necessary transformers is included in the price bid for Type 3 office buildings. Any cost incurred for carrying electric current over 1000 ft (300 m) from a power line is paid for by Force Account.

Payment for each Field Engineer’s office is made in two installments:

- 65 percent of the Contract Price is paid when the office is ready for occupancy.
- 35 percent is paid when the Department has finished using the office.

Payment will be made under:

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| Item No. 153 | Field Engineer's office type 1 | Per each |
| Item No. 153 | Field Engineer's office type 3 | Per each |