

**NEW  
VERSION**  
2026  
EDITION

# Modular Field Offices

for  
**DOT**  
Projects



**TRIUMPH**  
MODULAR  
A TECNOFAST COMPANY

# Introduction: Why This Guide?

We know what it's like bidding on highway construction projects. Bureaucratic red tape can be hard to cut through—especially when you've been searching for hours and can't find any of the necessary information. Some states may have very specific and strict specifications, while others have none at all.

Instead of scouring the internet or spending hours on the phone, we've compiled everything you need to know about field office requirements for Department of Transportation (DOT) projects—all in one place.

We've covered the DOT requirements for twelve states:

- **Connecticut**
- **Maine**
- **Massachusetts**
- **New Hampshire**
- **Ohio**
- **Pennsylvania**
- **Rhode Island**
- **Vermont**
- **West Virginia**
- **New Jersey**
- **Delaware**
- **Michigan**

We've also included some thoughts on how Triumph Modular can help furnish your field offices and save you some time. However, this guide is meant to be educational above all else. Triumph Modular can provide you with some of the furnishings necessary to meet DOT requirements, but others, such as computers, will need to be acquired independently.

For more information, contact your local rep.



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# Connecticut

## Basic Information



### Summary

While other states choose to separate different types of field offices using type names (type A, type B, etc.), Connecticut instead simply calls them out by sizing, with four different sizes of DOT trailers.

**The state of Connecticut has a *lot* of things to take into consideration with DOT projects.** We'll have them covered here, but you can also find everything you need on the Connecticut Department of Transportation [Website](#).

#### **CTDOT Customer Care Center Number:**

(860) 594-2560

#### **Email:**

[DOT.CustomerCare@ct.gov](mailto:DOT.CustomerCare@ct.gov)

#### **Mailing Address:**

Connecticut Department of Transportation  
2800 Berlin Turnpike  
P.O. Box 317546  
Newington, CT 06131-7546

# Layouts

Connecticut

Connecticut uses four different layouts for field offices—all with a minimum ceiling height of seven feet.

Unless otherwise approved by the engineer, office space shall be partitioned into segregated work areas for each user as follows:

- Each work area (or cubicle) shall be a minimum of 8 feet × 8 feet, with full-height walls or tall cubicle partitions (minimum 6 feet high), placed to provide a minimum of 6 feet walking space around and between each user work area.
- Walking space around and between each user work area (for social distancing)
- Only one user (workstation/desk) per work area
- Desks, tables, and other work surfaces shall be arranged so that adjacent users do not face each other

## Small

Connecticut's "small" field office designation has a minimum square footage of 400. It has no less than two exterior entrances and seven parking spaces.



10' x 50' field office

## Medium

Connecticut's "medium" field office designation has a minimum square footage of 720. It has no less than two exterior entrances and seven parking spaces.



**12' x 64' field office**

## Large

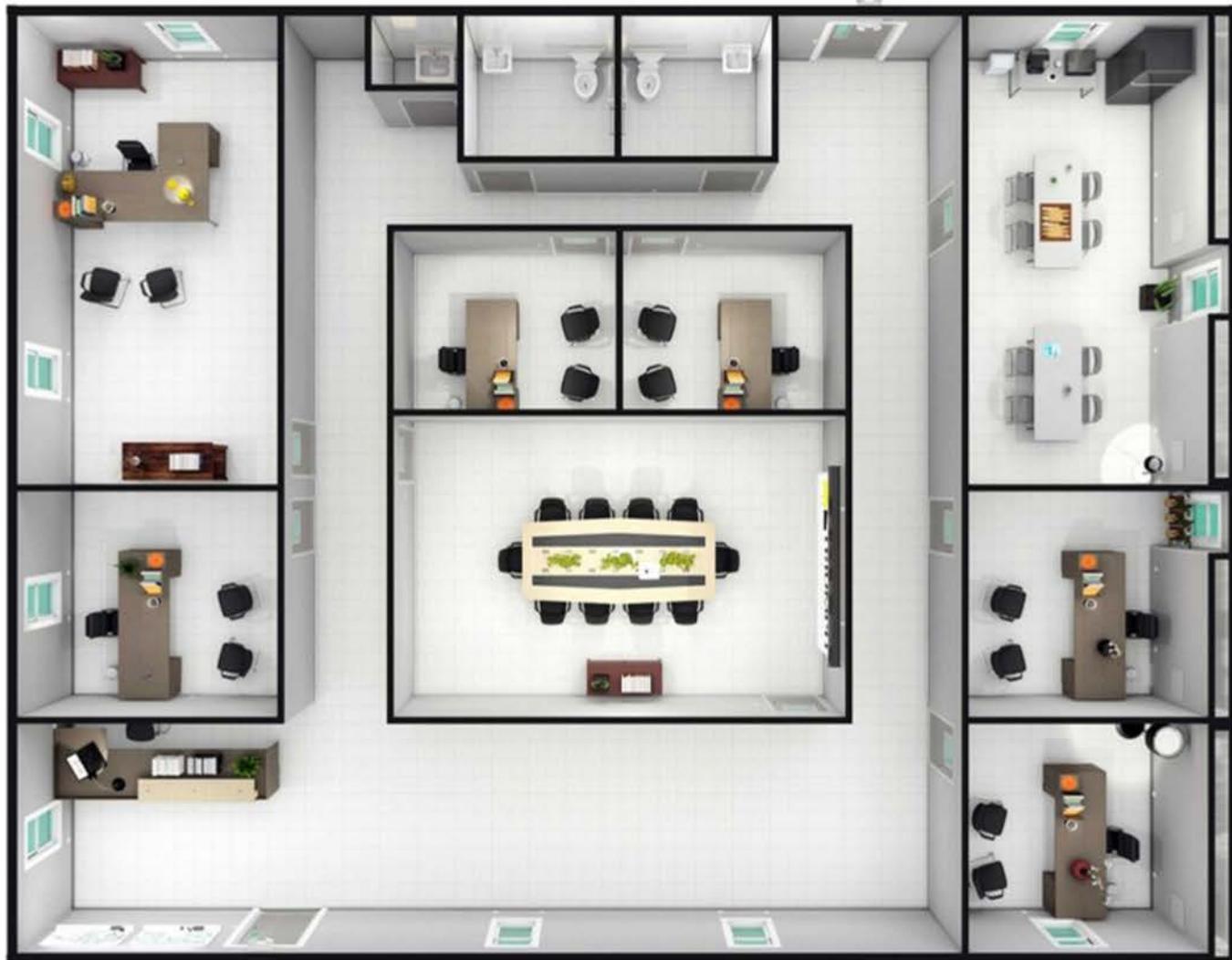
Connecticut's "large" field office designation has a minimum square footage of 1400. It has no less than two exterior entrances and ten parking spaces.



**24' x 64' temporary building**

## Extra Large

Connecticut's "extra large" field office designation has a minimum square footage of 2800. It has no less than two exterior entrances and 15 parking spaces.



64' x 64' temporary building

# Specifications

**Note:** This section is a reproduction of the current CTDOT requirements for field offices. For more information, consult the Connecticut Department of Transportation Website.

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## ITEM #0969064A - CONSTRUCTION FIELD OFFICE, LARGE

**Description:** Under the item included in the bid document, adequate weatherproof office quarters with related furnishings, materials, equipment and other services, shall be provided by the Contractor for the duration of the work, and if necessary, for a close-out period determined by the Engineer. The office, furnishings, materials, equipment, and services are for the exclusive use of CTDOT forces and others who may be engaged to augment CTDOT forces with relation to the Contract. The office quarters shall be located convenient to the work site and installed in accordance with Article 1.08.02. This office shall be separated from any office occupied by the Contractor. Ownership and liability of the office quarters shall remain with the Contractor.

**Furnishings/Materials/Supplies/Equipment:** All furnishings, materials, equipment and supplies shall be in like new condition for the purpose intended and require approval of the Engineer.

**Office Requirements:** The Contractor shall furnish the office quarters and equipment as described below:

Description \ Office Size	Small	Med.	Large	Extra Large
Minimum Sq. Ft. of floor space with a minimum ceiling height of 7 ft.	400	720	1400	2800
Minimum number of exterior entrances.	2	2	2	2
Minimum number of parking spaces.	7	7	10	15

**Office Layout:** The office shall have a minimum square footage as indicated in the table above and shall be partitioned as shown on the building floor plan as provided by the Engineer.

Unless otherwise approved by the Engineer, office space shall be partitioned into segregated work areas for each user as follows:

- Each work area (or cubicle) shall be a minimum of 8 feet  $\times$  8 feet, with full height walls or tall cubicle partitions (minimum 6 feet high), placed to provide a minimum of 6 feet walking space around and between each user work area (for social distancing).
- Only one user (workstation/desk) per work area.
- Desks, tables and other work surfaces shall be arranged so that adjacent users do not face each other.

**Tie-downs and Skirting:** Modular offices shall be tied-down and fully skirted to ground level.

**Lavatory Facilities:** For field offices sizes Small and Medium the Contractor shall furnish a toilet facility at a location convenient to the field office for use by CTDOT personnel and such assistants as they may engage; and for field offices sizes Large and Extra Large the Contractor shall furnish two (2) separate lavatories with toilet (men and women), in separately enclosed rooms that are properly ventilated and comply with applicable sanitary codes. Each lavatory shall have hot and cold running water and flush-type toilets. For all facilities the Contractor shall supply lavatory and sanitary supplies as required.

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**Windows and Entrances:** The windows shall be of a type that will open and close conveniently, shall be sufficient in number and size to provide adequate light and ventilation, and shall be fitted with locking devices, blinds and screens. The entrances shall be secure, screened, and fitted with a lock for which four keys shall be furnished. All keys to the construction field office shall be furnished to the CTDOT and will be kept in their possession while State personnel are using the office. Any access to the entrance ways shall meet applicable building codes, with appropriate handrails. Stairways shall be ADA/ABA compliant and have non-skid tread surfaces. An ADA/ABA compliant ramp with non-skid surface shall be provided with the Extra-Large field office.

**Lighting:** The Contractor shall equip the office interior with electric lighting that provides a minimum illumination level of 100 foot-candles at desk level height, and electric outlets for each desk and drafting table. The Contractor shall also provide exterior lighting that provides a minimum illumination level of 2 foot-candles throughout the parking area and for a minimum distance of 10 ft. on each side of the field office.

**Parking Facility:** The Contractor shall provide a parking area, adjacent to the field office, of sufficient size to accommodate the number of vehicles indicated in the table above. If a paved parking area is not readily available, the Contractor shall construct a parking area and driveway consisting of a minimum of 6 inches of processed aggregate base graded to drain. The base material will be extended to the office entrance.

**Field Office Security:** Physical Barrier Devices - This shall consist of physical means to prevent entry, such as: 1) All windows shall be barred or security screens installed; 2) All field office doors shall be equipped with dead bolt locks and regular day operated door locks; and 3) Other devices as directed by the Engineer to suit existing conditions.

**Electric Service:** The field office shall be equipped with an electric service panel, wiring, outlets, etc., to serve the electrical requirements of the field office, including: lighting, general outlets, computer outlets, electronics, etc., and meet the following minimum specifications:

- A. 120/240 volt, 1 phase, 3 wire
- B. Ampacity necessary to serve all equipment. Service shall be a minimum 100 amp dedicated to the construction field office.
- C. The electrical panel shall include a main circuit breaker and branch circuit breakers of the size and quantity required.
- D. Additional 120 volt, single phase, 20 amp, isolated ground dedicated power circuit with dual NEMA 5-20 receptacles will be installed at each desk and personal computer table (workstation) location.
- E. Additional 120 volt, single phase, 20 amp, isolated ground dedicated power circuit with dual NEMA 5-20 receptacles will be installed, for use by the Telephone Company.
- F. Additional 120-volt circuits and duplex outlets as required meeting National Electric Code requirements.
- G. One exterior (outside) wall mounted GFI receptacle, duplex, isolated ground, 120 volt, straight blade.

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- H. After work is complete and prior to energizing, the State's CTDOT electrical inspector, must be contacted at 860-594-2240. (Do Not Call Local Town Officials)
- I. Prior to field office removal, the CTDOT Office of Information Systems (CTDOT OIS) must be notified to deactivate the communications equipment.

**Heating, Ventilation and Air Conditioning (HVAC):** The field office shall be equipped with sufficient and properly operating, heating, air conditioning, and ventilation equipment to maintain a temperature range of 68°-80° Fahrenheit within the field office. The Contractor shall increase ventilation rates and increase the percentage of outdoor air that circulates into the system where possible.

**Telephone Service:** The Contractor shall provide telephone service with unlimited nation-wide calling plan. For a Small, Medium and Large field office this shall consist of the installation of two (2) telephone lines: one (1) line for phone/voice service and one (1) line dedicated for the facsimile machine. For an Extra-Large field office this shall consist of four (4) telephone lines: three (3) lines for phone/voice service and one (1) line dedicated for facsimile machine. The Contractor shall pay all charges.

**Data Communications Facility Wiring:** Contractor shall install a Category 6 568B patch panel in a central wiring location and Cat 6 cable from the patch panel to each PC station, Smart Board location, Multifunction Laser Printer/Copier/Scanner/Fax, terminating in a (Category 6 568B) wall or surface mount data jack. The central wiring location shall also house either the data circuit with appropriate power requirements or a Category 6 cable run to the location of the installed data circuit. The central wiring location will be determined by the CTDOT OIS staff in coordination with the designated field office personnel as soon as the facility is in place.

For Small, Medium and Large field offices the Contractor shall run a CAT 6 LAN cable a minimum length of 25 feet for each CTDOT networked device (including but not limited to: smartboards and Multi-Function Laser Printer/Copier/Scanner/Fax) to LAN switch area leaving an additional 10 feet of cable length on each side with terminated RJ45 connectors. For an Extra-Large field office, the Contractor shall run CAT 6 LAN cables from workstations, install patch panel in data circuit demark area and terminate runs with RJ45 jacks at each device location. Terminate runs to patch panel in LAN switch area. Each run / jack shall be clearly labeled with an identifying Jack Number.

The Contractor shall supply cables to connect the Wi-Fi printer to the Contractor supplied internet router and to workstations/devices as needed. These cables shall be separate from the LAN cables and data Jacks detailed above for the CTDOT network.

The number of networked devices anticipated shall be at least equal to the number of personal computer tables, Multi-Function Laser Printer/Copier/Scanner/Fax, and smartboards listed below.

The installation of a data communication circuit between the field office and the CTDOT OIS in Newington will be coordinated between the CTDOT District staff, CTDOT OIS staff and the local utility company once the Contractor supplies the field office phone numbers and anticipated installation date. The Contractor shall provide the field office telephone number(s) to the CTDOT

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Project Engineer within 10 calendar days after the signing of the Contract as required by Article 1.08.02. This is required to facilitate data line and computer installations.

Additional Equipment, Facilities and Services: The Contractor shall provide at the field Office at least the following to the satisfaction of the Engineer:

Furnishing Description	Office Size			
	Small	Med.	Large	Extra Large
	Quantity			
Office desk (2.5 ft. x 5 ft.) with drawers, locks, and matching desk chair that have pneumatic seat height adjustment and dual wheel casters on the base.	1	3	5	8
Standard secretarial type desk and matching desk chair that has pneumatic seat height adjustment and dual wheel casters on the base.	-	-	-	1
Personal computer tables (4 ft. x 2.5 ft.).	2	3	5	8
Drafting type tables (3 ft. x 6 ft.) and supported by wall brackets and legs; and matching drafter's stool that have pneumatic seat height adjustment, seat back and dual wheel casters on the base.	1	1	1	2
Conference table, 3 ft. x 12 ft.	-	-	-	1
Table – 3 ft. x 6 ft.	-	-	-	1
Office Chairs.	2	4	8	20
Mail slot bin – legal size.	-	-	1	1
Non-fire-resistant cabinet.	-	-	2	4
Fire resistant cabinet (legal size/4 drawer), locking.	1	1	2	3
Storage racks to hold 3 ft. x 5 ft. display charts.	-	-	1	2
Vertical plan racks for 2 sets of 2 ft. x 3 ft. plans for each rack.	1	1	2	2
Double door supply cabinet with 4 shelves and a lock – 6 ft. x 4 ft.	-	-	1	2
Case of cardboard banker boxes (Min 10 boxes/case)	1	1	2	3
Open bookcase – 3 shelves – 3 ft. long.	-	-	2	2
White Dry-Erase Board, 36" x 48" min. with markers and eraser.	1	1	1	1
Interior partitions – 6 ft. x 6 ft., soundproof type, portable and freestanding.	-	-	6	6
Coat rack with 20 coat capacity.	-	-	-	1
Wastebaskets - 30 gal., including plastic waste bags.	1	1	1	2
Wastebaskets - 5 gal., including plastic waste bags.	1	3	6	10
Electric wall clock.	-	-	-	2
Electronic Level	1	1	1	2

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Furnishing Description	Office Size			
	Small	Med.	Large	Extra Large
	Quantity			
Telephone.	1	2	3	-
Full size stapler 20 (sheet capacity, with staples)	1	2	5	8
Desktop tape dispensers (with Tape)	1	2	5	8
8 Outlet Power Strip with Surge Protection	3	4	6	9
Rain Gauge	1	1	1	1
Business telephone system for three lines with ten handsets, intercom capability, and one speaker phone for conference table.	-	-	-	1
Mini refrigerator - 3.2 c.f. min.	1	1	1	1
Hot and cold-water dispensing unit. Disposable cups and bottled water shall be supplied by the Contractor for the duration of the project.	1	1	1	1
Microwave, 1.2 c.f., 1000W min.	1	1	1	1
Fire extinguishers - provide and install type and *number to meet applicable State and local codes for size of office indicated, including a fire extinguisher suitable for use on a computer terminal fire.	*	*	*	*
Electric pencil sharpeners.	1	2	2	2
Electronic office type printing calculators capable of addition, subtraction, multiplication and division with memory and a supply of printing paper.	1	1	2	4
Small Multi-Function Laser Printer/Copier/Scanner/Fax combination unit, network capable, as specified below under Computer Related Hardware and Software.	1	1		
Large Multi-Function Laser Printer/Copier/Scanner/Fax combination unit, network capable, as specified below under Computer Related Hardware and Software.			1	1
Field Office Wi-Fi Connection as specified below under Computer Related Hardware and Software	1	1	1	1
Wi-Fi Printer as specified below under Computer Related Hardware and Software.	1	1	1	1
Digital Camera as specified below under Computer Related Hardware and Software.	1	1	3	3
Video Projector as specified below under Computer Related Hardware and Software.	-	-	-	1
Smart Board as specified below under Computer Related Hardware and Software.	-	-	-	1

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Conference Room Presentation Television as specified below under Computer Related Hardware and Software.	-	-	-	-
Infrared Thermometer, including annual third-party certified calibration, case, and cleaning wipes.	1	1	1	2
Concrete Curing Box as specified below under Concrete Testing Equipment.	1	1	1	1
Concrete Air Meter and accessories as specified below under Concrete Testing Equipment as specified below. Contractor shall provide third party calibration on a quarterly basis.	1	1	1	1
Concrete Slump Cone and accessories as specified below under Concrete Testing Equipment.	1	1	1	1
First Aid Kit	1	1	1	1
Disinfecting wipes, sprays, and other supplies (** as specified below under Maintenance).	..	..	..	..
Hand sanitizer stations (** maintain one full station at each entrance, restroom, and conference area).	***	***	***	***
Flip Phones as specified under <u>Computer Related Hardware and Software</u> .	-	-	-	-
Smart Phones as specified under <u>Computer Related Hardware and Software</u> .	-	-	-	-

The furnishings and equipment required herein shall remain the property of the Contractor. Any supplies required to maintain or operate the above listed equipment or furnishings shall be provided by the Contractor for the duration of the project.

Computer Related Hardware and Software: The CTDOT will supply by its own means the actual Personal Computers for the CTDOT representatives. The Contractor shall supply the Field Office Wi-Fi Connection, Wi-Fi Printer, Digital Camera(s), Flip Phones, Smart Phones, Multifunction Laser Printer/Copier/Scanner/Fax, Video Projectors, and Smart Board(s), Conference Room Presentation Television, as well as associated hardware and software, meeting the requirements of this specification as well as the latest minimum specifications posted, as of the project advertising date, at CTDOTs web site <http://www.ct.gov/dot/cwp/view.asp?a=1410&q=563904>

Within 10 calendar days after the signing of the Contract but before ordering/purchasing the Wi-Fi Printer (separate from the Multifunction Laser Printer/Copier/Scanner/Fax), Field Office Wi-Fi, Digital Camera(s), Flip Phones, Smart Phones, Multifunction Laser Printer/Copier/Scanner/Fax, Video Projector(s) and Smart Board(s) as well as associated hardware, the Contractor must submit a copy of their proposed order(s) with catalog cuts and specifications to the Administering CTDOT District for review and approval. The Wi-Fi Printer, Wi-Fi Router, Flip Phones, Smart Phones, digital cameras, Projector(s) and Smart Board(s) will be reviewed by CTDOT District personnel. The Multifunction Laser Printer/Copier/Scanner/Fax will be reviewed by the CTDOT OIS. The Contractor shall not purchase the hardware, software, or services until the Administering CTDOT District informs them that the proposed equipment, software, and services are approved. The

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Contractor will be solely responsible for the costs of any hardware, software, or services purchased without approval.

The Contractor and/or their internet service provider shall be responsible for the installation and setup of the field office Wi-Fi, Wi-Fi printer, and the configuration of the wireless router as directed by the CTDOT. Installation will be coordinated with CTDOT District and Project personnel.

After the approval of the hardware and software, the Contractor shall contact the designated representatives of the CTDOT administering District, a minimum of 2 working days in advance of the proposed delivery or installation of the Field Office Wi-Fi Connection, Wi-Fi Printer, Digital Camera(s), Flip Phones, Smart Phones, Multifunction Laser Printer/Copier/Scanner/Fax, Video Projectors and Smart Board(s), as well as associated hardware, software, supplies, and support documentation.

The Contractor shall provide all supplies, paper, maintenance, service and repairs (including labor and parts) for the Wi-Fi printers, copiers, field office Wi-Fi, fax machines and other equipment and facilities required by this specification for the duration of the Contract. All repairs must be performed within 48 hours. If the repairs require more than 48 hours, then an equal or better replacement must be provided.

Once the Contract has been completed, the hardware and software will remain the property of the Contractor.

**First Aid Kit:** The Contractor shall supply a first aid kit adequate for the number of personnel expected based on the size of the field office specified and shall keep the first aid kit stocked for the duration that the field office is in service.

**Rain Gauge:** The Contractor shall supply install and maintain a rain gauge for the duration of the project, meeting these minimum requirements. The rain gauge shall be installed on the top of a post such that the opening of the rain gauge is above the top of the post an adequate distance to avoid splashing of rainwater from the top of the post into the rain gauge. The location of the rain gauge and post shall be approved by the Engineer. The rain gauge shall be made of a durable material and have graduations of 0.1 inches or less with a minimum total column height of 5 inches. If the rain gauge is damaged the Contractor shall replace it prior to the next forecasted storm event at no additional cost.

**Electronic Level:** The Contractor shall supply and maintain in working order, for the duration of the Contract, the number of electronic levels, identified in the Additional Equipment, Facilities and Services table of this specification. The electronic levels shall meet the following requirements:

- A. 48-inch length, box beam type
- B. IP65 water and dust proof
- C. 0.1-degree accuracy
- D. Backlit display

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- E. Carrying case included
- F. New or like new condition

**Concrete Testing Equipment:** If the Contract includes items that require compressive strength cylinders for concrete, in accordance with the Schedule of Minimum Testing Requirements for Sampling Materials for Test, the Contractor shall provide the following equipment.

- A. Concrete Cylinder Curing Box – meeting the requirements of Section 6.12 of the Standard Specifications.
- B. Air Meter – The air meter provided shall be in good working order and meet the requirements of AASHTO T 152.
- C. Slump Cone Mold – Slump cone, base plate, and tamping rod shall be provided in like-new condition and meet the requirements of AASHTO T119, Standard Test Method for Slump of Hydraulic-Cement Concrete.

All testing equipment will remain the property of the Contractor at the completion of the project.

**Insurance Policy:** The Contractor shall provide a separate insurance policy, with no deductible, in the minimum amount of five thousand dollars (\$5,000) in order to insure all State-owned data equipment and supplies used in the office against all losses. The Contractor shall be named insured on that policy, and the CTDOT shall be an additional named insured on the policy. These losses shall include, but not be limited to theft, fire, and physical damage. The CTDOT will be responsible for all maintenance costs of CTDOT owned computer hardware. In the event of loss, the Contractor shall provide replacement equipment in accordance with current CTDOT equipment specifications, within seven days of notice of the loss. If the Contractor is unable to provide the required replacement equipment within seven days, the CTDOT may provide replacement equipment and deduct the cost of the equipment from monies due or which may become due the Contractor under the Contract or under any other contract. The Contractor's financial liability under this paragraph shall be limited to the amount of the insurance coverage required by this paragraph. If the cost of equipment replacement required by this paragraph should exceed the required amount of the insurance coverage, the CTDOT will reimburse the Contractor for replacement costs exceeding the amount of the required coverage.

**Maintenance:** During the occupancy by the CTDOT, the Contractor shall maintain all facilities and furnishings provided under the above requirements, and shall maintain and keep the office quarters clean through the use of professional cleaning including, but not limited to, vacuuming carpet, washing & waxing floors, cleaning restrooms, removal of trash, general cleaning, etc. The general cleaning of the office shall be at least twice weekly. Restrooms, portable toilets and all other high touch areas shall be cleaned and disinfected at least every two days using CDC and Department of Health recommended and non-hazardous techniques. High touch areas to be cleaned include but are not be limited to (depending on the facilities supplied):

- A. Arms on chairs

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- B. Table/Desktops
- C. Handrails
- D. Doorknobs and handles
- E. Countertops
- F. Elevator buttons
- G. Coffee pots
- H. Refrigerator / microwave / dishwasher / toaster handles
- I. Water dispensers
- J. Cabinet and file drawer knobs / handles
- K. Phones and keypads
- L. Copier / printer / fax control buttons
- M. Sinks and faucets
- N. Light switches

In addition, the Contractor shall supply appropriate (CDC and Department of Health recommended and non-hazardous), cleaning and disinfection supplies (wipes and sprays), and single use gloves for the use of the CTDOT representatives, for disinfection of surfaces and equipment in between the 2 day interval noted above. The Contractor shall always maintain a minimum of 500 wipes and 100 pairs of disposable gloves in the field office.

Exterior areas shall be mowed and clean of debris. A trash receptacle (dumpster) with weekly pickup (trash removal) shall be provided. Snow removal, sanding and salting of all parking, walkway, and entrance ways areas shall be accomplished during a storm if on a workday during work hours, immediately after a storm and prior to the start of a workday. If snow removal, salting and sanding are not completed by the specified time, the State will provide the service and all costs incurred will be deducted from the next payment estimate.

**Method of Measurement:** The furnishing and maintenance of the construction field office will be measured for payment by the number of calendar months that the office is in place and in operation, rounded up to the nearest month.

There will not be any price adjustment due to any change in the minimum computer related hardware and software requirements.

**Basis of Payment:** The furnishing and maintenance of the Construction Field Office will be paid for at the Contract unit price per month for "Construction Field Office, (Type)," which price shall include all material, equipment, labor, service contracts, licenses, software, repair or replacement of hardware and software, related supplies, utility services, parking area, external illumination, trash removal, snow and ice removal, and work incidental thereto, as well as any other costs to provide requirements of this specified this specification.

Pay Item  
Construction Field Office, (Type)

Pay Unit  
Month



## Basic Information

### Summary

There are fewer DOT project requirements and regulations to consider in Maine than in a state like Connecticut. However, we're still looking at several considerations, from furnishing requirements to heating regulations.

We've included all the specifications you need to know about below, but you can always find more information on the Maine Department of Transportation [website](#).

#### **MDOT Contact Form:**

<https://www.maine.gov/mdot/contact/>

#### **Contractor-specific Info:**

<https://www.maine.gov/mdot/contractors/>

#### **MDOT Phone Number:**

207-624-3000

#### **Mailing Address:**

Maine Department of Transportation  
16 SHS  
Augusta, ME 04333-0016

# Layouts



Maine uses three primary layouts for field offices: Type A, Type B, and Type C. All three layouts will have ceilings at least seven feet tall, one toilet facility, and one wall closet each.

## Type A

The Type A field office in Maine is the largest layout of the three. It has a floor area (outside dimension) of no less than **312 square feet** and a window area of **55 square feet**.





## Type B

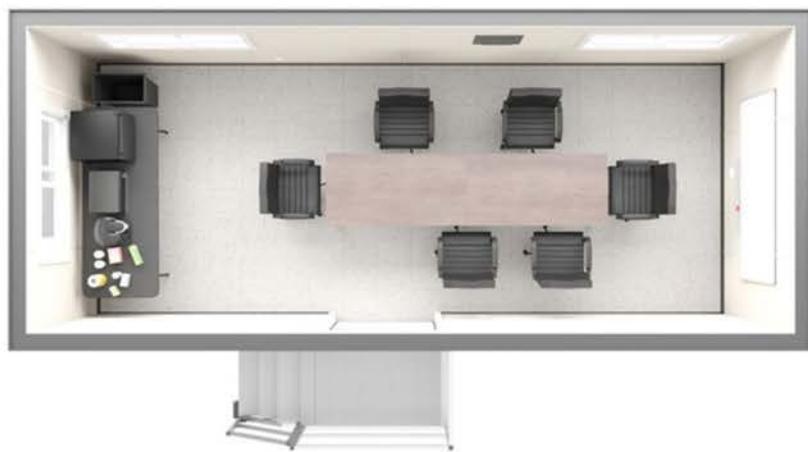
Maine's Type B field office is the next largest, with a minimum floor area square footage of **220**. It also has a window area of at least **35 square feet**.



**8' x 32' field office**

## Type C

The Type C field office in Maine is the smallest layout available. It has a floor area of no less than **125 square feet**, and a window area of **35 square feet**.



**8' x 24' field office**

# Specifications



**Note:** This section is a reproduction of the current MDOT requirements for field offices. For more information, consult the Maine Department of Transportation website.

**639.02 Materials** Materials for buildings shall be of good quality customarily used in standard frame house or office trailer construction.

**639.03 General** The building of the type called for shall be provided before the start of work, and shall remain until work is completed and accepted, unless earlier removal is authorized. The location shall be approved by the Resident and should be adjacent or virtually adjacent to the Project.

A fire extinguisher shall be provided in each building or office trailer for electrical and chemical fires and effective on all solvents used in the building.

Walls, roof, floor, windows, and doors shall be tightly constructed to the required area.

Furnishings shall be supplied as called for. Doors shall be equipped with locks and all keys shall be in the possession of the Resident. Windows shall be equipped with latches so they may be locked on the inside. Window screens and screen doors shall be supplied when necessary. Adequate desk and desk space shall be provided. If a portable table is supplied, it should be adjustable to accommodate the various heights of employees. A 5-way adjustable office chair shall be provided in the quantities listed.

**639.04 Field Offices** Field Offices are designated Type A, Type B, or Type C. Buildings, including trailers, may be provided if they substantially equal or exceed the following requirements. Air conditioning, appropriate to the building size, shall be provided in all field offices.

The walls, roof, and floor of the building shall be completely insulated with a minimum insulation value of R-15. Office trailers shall be either new or in very good used condition. The interior walls shall be covered with suitable wall paneling. The entire office trailer shall be for the exclusive use of the Resident. The office trailer shall be winterized and completely enclosed at the bottom, if the trailer will be used in cold weather.

Other types of buildings and facilities may be furnished of equal or better quality.

A public work area will be provided in the field office that shall be designed and constructed so that individuals with disabilities can approach, enter, and exit this area.

At least one accessible route to the field office shall be provided from accessible parking. The accessible route shall comply with the Americans with Disabilities Act Accessibility Guidelines (ADAAG) and this specification.

The minimum clear width of an accessible route shall be 36 inches except at doors. The least possible slope shall be used for an accessible route. An accessible route with a running slope greater than 1:20 shall be considered a ramp. Maximum ramp slope is 1:12. The maximum rise for any run of a ramp shall be 30 inches and the minimum clear width shall be 36 inches. Nowhere shall the cross slope of an accessible route exceed 1:50. Changes in level up to  $\frac{1}{4}$  inch may be vertical and without edge treatment. Changes in level between  $\frac{1}{4}$

# Specifications



inch and  $\frac{1}{2}$  inch shall be beveled with a slope no greater than 1:2. Ramp floor surfaces shall be stable, firm, and slip-resistant.

Ground floor surfaces along accessible routes and in accessible rooms and spaces including floors, walks, ramps, stairs, and curb ramps, shall be stable, firm, and slip-resistant.

The main door to the public work area shall have a minimum clear opening of 32 inches with the door opened 90 degrees, measured between the face of door and the opposite stop. Minimum maneuvering clearances at doors shall be provided. The floor or ground area within the required clearances shall be level and clear.

The handle and other operating devices on accessible doors shall have a shape that is easy to grasp with one hand and does not require tight grasping. Lever-operated mechanisms push type mechanisms, and U-shaped handles are acceptable designs. Hardware required for accessible door passage shall be mounted no higher than 48 inches above finished floor.

A minimum of 3 parking spaces will be supplied for Class B & C Field Offices and 6 for Class A. One wheelchair accessible parking space shall be located on the shortest accessible route of travel from adjacent parking to an accessible entrance.

Level landings shall be provided at bottom and top of each run. The landing shall be at least as wide as the ramp run leading to it with a minimum length of 60 inches.

If a ramp run has a rise greater than 6 inches or a horizontal projection greater than 72 inches, then it shall have handrails on both sides. Handrails shall have the following features:

- 1) Handrails shall be provided along both sides of ramp segments. The inside handrail on switchback ramps shall always be continuous.
- 2) If handrails are not continuous, they shall extend at least 12 inches beyond the top and bottom of the ramp segment and shall be parallel with the floor or ground surface.
- 3) The clear space between the handrail and the wall shall be  $1\frac{1}{2}$  inch.
- 4) Gripping surfaces shall be continuous.
- 5) Top of handrail gripping surfaces shall be mounted between 34 and 38 inches above ramp surfaces.
- 6) Ends of handrails shall be either rounded or returned smoothly to floor, wall, or post.
- 7) Handrails shall not rotate within their fittings.

# Specifications



8) The diameter or width of the gripping surfaces of a handrail shall be 1½ to 1½ inch, or the shape shall provide an equivalent gripping surface.

Firm and sturdy steps shall also be provided with 7 inch maximum riser and 11 inch minimum depth, and at least one handrail extending from the top of the steps to a minimum 12 inches beyond the bottom of the steps.

The Contractor will make reasonable effort(s) to provide wheelchair accessible toilet facilities when "portable" facilities are provided.

The Contractor shall provide wheelchair accessible toilet facilities when flush type facilities, that is, those with running water, are provided; and the Contractor shall provide wheelchair accessible portable facilities, if used, when the contract duration exceeds two continuous construction seasons.

In addition to the facilities previously specified in this subsection, each field office shall meet the following minimum requirements:

<u>Description</u>	<u>Quantity</u>	<u>Type A</u>	<u>Type B</u>	<u>Type C</u>
Floor Area (Outside Dimension) - ft <sup>2</sup>	312	220	125	
Inside Wall Height - feet	7	7	7	
Window Area - ft <sup>2</sup>	55	35	35	
Drafting Table Surface Area - ft <sup>2</sup>	15	15	15	
Drafting Stools - each	2	1	1	
Office Desks - each	2	1	1	
Ergonomic Swivel Chairs -ea (5-way adjustable)	3	2	2	
Folding Chairs - each	3	2	2	
Lighting Units - each	4	2	2	
Electric Wall Outlets - each	6	4	3	
Power Strip Surge Protectors - each	3	2	1	
Wall Closets - each	1	1	1	
Plan Rack for minimum of 6 sets of plans	1	1	0	
Toilet Facility	1	1	1	
Wastebaskets - each	2	2	1	

All windows shall be provided with shades or blinds.

The toilet facility shall be for the exclusive use of State personnel. If requested, the Contractor will supply a lock to ensure exclusive use.

The Resident will have the option to reject any furniture or supplies provided to the field office based on general condition.

One hundred ten volt, 60 cycle, continuous electric service shall be supplied for lighting and 15 amp duplex wall outlets. Lighting shall consist of fluorescent light units with rapid

# Specifications

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start bulbs or LED shop style lights located over the work areas for a minimum of 50 foot candles overall. At least one external light source will be provided.

Drafting surfaces shall be 40 inches above the floor and have shelves beneath. Shelves for plans and rolls shall also be furnished overhead. Drafting stools shall be approximately 28 inches high.

Desks shall be single or double pedestal standard office type, and shall be in addition to "built-in" type desks in the office trailer.

Field offices shall be furnished with one four-drawer letter size metal filing cabinet.

Wall closets shall be 21 inches wide, 15 inches deep, and at least 4 feet high.

Each office shall be furnished with a broom, dustpan, sweeping compound, trash bags, and with cleaning material for cleaning glass. If the field office is carpeted, then a vacuum cleaner will be provided. The contractor will be responsible for disposing of trash from the field office.

The Contractor shall provide a fully functional wireless desktop copier/scanner/printer, capable of copying field books, for the Resident's use during the project. All maintenance and supplies, except paper, shall be the responsibility of the Contractor.

The Contractor shall provide bottled water and a microwave for the duration of the project. All maintenance and supplies shall be the responsibility of the Contractor. Alternate source of water, such as a water cooler, may be provided as approved by resident.

The Contractor shall provide a 4 cubic-foot refrigerator in the field office for the duration of the project.

Each office shall be furnished with a 10-person general-purpose first aid kit. The first aid kit shall be periodically inspected and refilled as necessary.

**639.08 Heat** Heat appropriate to the building size shall be supplied by the Contractor to maintain an acceptable room temperature during occupancy.

**639.091 Broadband Connection** The contractor will supply one computer broadband connection, modem lease and router. The router shall have wireless access and be 802.11n or newer capable. The type of connection supplied will be contingent upon the availability of services (i.e. DSL or Cable Broadband). It shall be the contractor's option to provide dynamic or static IP addresses through the service. The selected service will have a minimum download connection of 5.0 Mbps and 1.0 Mbps upload. The contractor shall be responsible for the installation charges and all reinstallation charges following suspended periods. Monthly service and maintenance charges shall be billed by the Internet Service Provider (ISP) directly to the contractor.

# Specifications



**639.10 Method of Measurement** Field office will be measured by the unit or lump sum for each building provided, equipped and maintained satisfactorily.

**639.11 Basis of Payment** The accepted quantity of field office will be paid for at the contract unit price each or lump sum which payment shall be full compensation for furnishing until contract completion, erecting, equipping, maintaining, furnishing electricity, heating, installing and maintaining toilet facilities and if necessary removing the buildings or office trailers.

Payment for these items will be made in 3 parts; the first payment of  $\frac{1}{2}$  to be made after the Contractor has supplied the building or office trailer and it has been approved. The remaining payments shall be made at intervals as follows:

A second payment of  $\frac{1}{4}$  shall be made when one-half of the anticipated work has been completed.

The final payment of the remaining  $\frac{1}{4}$  shall be made upon completion of the work.

Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
639.18 Field Office, Type A	Each
639.19 Field Office, Type B	Each
639.20 Field Office, Type C	Each

## SECTION 640 - VACANT

## SECTION 641 - REST AREA FACILITIES

Reserved

## SECTION 642 - STEPS

**642.01 Description** This work shall consist of the construction of wooden steps, precast concrete steps or cast-in-place concrete steps in accordance with these specifications and in reasonably close conformity with dimensions and designs shown on the plans.

**642.02 Materials** Materials for the steps shall meet the requirements as specified in the following Sections of Division 700 - Materials:

Exterior Ready Mixed Paint	708.01
Timber Preservative	708.05
Precast Concrete Units	712.06

# Massachusetts



## Basic Information

### Summary

The DOT requirements and regulations for the state of Massachusetts are similar in length and complexity to Maine's. However, Massachusetts only has two field office layouts.

#### MassDOT Contact Form:

<https://www.mass.gov/forms/contact-massdot>

#### MassDOT Contract Page:

<https://www.mass.gov/massdot-contract-opportunities>

#### MassDOT Highway District Office Page:

<https://www.mass.gov/service-details/find-your-highway-district-office>

#### MassDOT Phone Number:

(857) 368-4636

#### Mailing Address:

Massachusetts Department of Transportation

10 Park Plaza Suite 4160

Boston, MA 02116

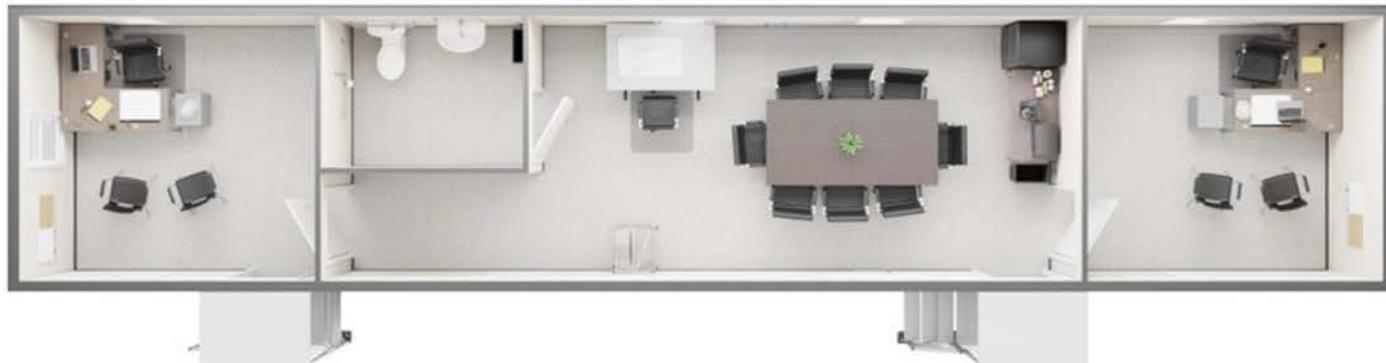
# Layouts

Massachusetts

Massachusetts uses only two primary layouts for field offices: **Type A** and **Type B**. They've also kept everything simple—both types of field offices have the exact same specifications *except* for the size.

## Type A

Type A field offices in Massachusetts feature a minimum floor space of **450 square feet**. They must also be equipped with a complete sanitary and washroom facility.



**12' x 64' field office**

## Type B

Type B field offices have all of the same specifications as Type A. However, they must have a minimum of **350 square feet** of floor space.



**10' x 44' field office**

57.3 14 14 27.6

A-A (1:1)

(3x)

120°

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Massachusetts

# Specifications

**Note:** This section is a reproduction of the current MassDOT requirements for field offices. For more information, consult the Massachusetts Department of Transportation website.

## SUBSECTION 740: ENGINEER'S FIELD OFFICE AND MATERIALS LABORATORY (EACH WITH PERTINENT EQUIPMENT)

### DESCRIPTION

#### 740.20: General

Satisfactory office space, trailers, materials laboratory, or the utilization of a suitable existing building or buildings as directed shall be provided when required, in an approved location on the project or in the immediate vicinity thereof, for the exclusive use of the Engineers and Inspectors of the Department; such facilities to be separate from any building or buildings used by the Contractor.

Massachusetts Department of Transportation – Highway Division  
Standard Specifications for Highways and Bridges

#### 740.21: Requirements

The trailers or buildings shall be fully equipped and made ready for use prior to the beginning of other work on the project and may remain for a period of approximately 45 days after all work on the project has been completed and accepted by the Department.

All offices and laboratories shall be maintained in good condition and appearance by the Contractor for the designated period, after which all portable buildings or trailers, fencing, surfacing and utilities shall be removed from the location, the areas cleaned, loamed and seeded if required, and left in a neat and acceptable condition.

If existing buildings are utilized, the above-mentioned requirements shall apply.

#### 740.22: Building Types and Construction

The building or facilities may consist of any of the following, subject to approval of the Engineer.

- Moved onto or constructed on the site.
- A trailer or trailers, each type as stipulated in the Proposal.
- An existing building, owned or rented by the Contractor, containing floor space equivalent to the type specified.

Buildings or trailers moved onto or constructed on the project shall conform with the following:

#### 740.22.A: General

The work to be done under this section shall consist of furnishing all labor, equipment and materials to construct, furnish and maintain buildings or trailers for the Engineer's use, in accordance with the Department Standards and these Specifications.

The sanitary facilities are not for general use by the Contractor's employees. Sanitary provisions for these employees shall be provided otherwise by the Contractor in accordance 7.02.B.6: Sanitary Provisions.

# Specifications

Massachusetts

## 740.22.B: Plumbing

Each office shall be equipped with complete sanitary and washroom facilities. All connections shall conform with state and local requirements for venting and other sanitary provisions.

A  $\frac{3}{4}$ -in. copper tubing type L shall be installed for the water service. The water closets shall be provided with sufficient pressure to completely expel the contents in one operation.

Insulation shall be provided on all services where necessary. If directed, the Contractor shall furnish and install an approved electric tape, as directed, together with necessary switches and thermostat for each water pipe to prevent freezing.

If a sanitary sewer is not available, a septic system adequate for the office meeting the requirements of the Department of Environmental Protection regulations set forth in "The State Environmental Code Minimum Requirements for the Subsurface Disposal of Sanitary Sewage - Title 5" shall be installed.

The Department will not approve the location of a Field Office until the Contractor has obtained approval for their proposed method of sanitary sewage disposal from a) The Department of Environmental Protection if the location is on state property or b) Department of Environmental Protection and the applicable local Board of Health if the location is on private or municipal property.

The Contractor will be required to furnish personnel, equipment and materials for soil test pits and percolation tests and to furnish plans, prepared by a Registered Professional Engineer skilled in the matter of subsurface sewage disposal, signed and stamped with the Engineer's stamp, for any proposed subsurface sewage disposal system. The plan or plans will meet the requirements of Title 5 of the State Environmental Code or its successor or amendments thereto.

The Contractor will be required to determine, through the appropriate regional office of the Department of Environmental Protection, whether or not a proposed site is within a watershed area for public water supply.

Every effort will be made not to locate temporary Sanitary Facilities on any public water supply watershed. Should there be no alternative, the provisions of any regulations of D.E.P. Division of Water Supply and the above shall apply.

In the event that it can be shown that there is no place reasonably proximate to the job with suitable soil and site conditions that will permit subsurface sewage disposal, the Department of Environmental Protection will consider approval of a tight tank system. The Contractor will have their engineer submit their tight tank proposal and plans to the appropriate Regional Environmental Engineer of the Department of Environmental Protection in compliance with their "Sanitary Sewage Tight Tank Policy" for approval.

## 740.22.C: Wiring and Lighting

48-in. non-glare fluorescent luminaires shall be installed in each office so as to provide a minimum level of illumination at desk height of 100 foot-candles. Two fixtures shall be placed over the drawing table as directed. The master switch shall be near the door and control the desk light. Separate pull chains shall be provided for the lights over the table. Four double convenience outlets shall be installed where directed.

Electric wiring in each building or trailer shall be complete with meter connections, fuse box and switch.

## 740.22.D: Heating and Air Conditioning

All buildings or trailers shall be heated and air conditioned with equipment capable of maintaining a temperature of 70°F, the total cost to be borne by the Contractor.



## 740.22.E: Area Enclosures, Surfacing and Maintenance

The area occupied by the buildings or trailers shall be enclosed with 72-in. chain link fence, including a 12-ft clear opening double-swing gate, all with 3 strands of barbed wire on extension arms and conforming to the relevant provisions of Subsection 644: Chain Link Fences and Gates. The area to be enclosed will depend on the manner in which the buildings are arranged and shall be satisfactory to the Engineer.

A portion of the area within the enclosure designated by the Engineer for use as walks and parking, shall be graded and paved with 2.5-in. hot mix asphalt over a 6-in. gravel foundation.

The Contractor shall maintain the enclosed area by cleaning as required, including the removal of snow from the paved portions.

Toilet tissue, paper towels and soap shall be furnished by the Contractor as required. The office shall be cleaned and floors washed and waxed weekly. The space between the ground and trailer floor shall be completely closed in and insulated.

All of this work shall be included for payment under the contract price for furnishing the specified number and types of buildings.

## 740.22.F: Insurance and Replacement

At the time the buildings are made available to the Department, the Contractor shall furnish evidence to the Engineer that Insurance in form, coverage and substance satisfactory to the Department in amount of \$5,000 (non-deductible) has been obtained which will protect the Commonwealth's property and/or employee's personal work related or professional equipment against loss of property in any of the buildings or trailers from fire, theft, storm or flood.

The insurance shall be kept in effect during the entire period of occupancy, with evidence of all necessary renewals being promptly forwarded to the Engineer.

In case of fire, theft or breakdown, all equipment involved shall be repaired or replaced by the Contractor within 48 hours.

In the event buildings or trailers, being used as field offices or materials laboratory, are destroyed or rendered untenable for any reason, they shall be replaced within two weeks, or as directed.

Title to the buildings and equipment shall remain in the name of the Contractor.

## MATERIALS (EQUIPMENT)

### 740.40: General

Buildings or trailers shall have equipment as hereinafter specified, which shall be new or in condition satisfactory to the Engineer. The repair or replacement of faulty equipment shall be prompt and at the expense of the Contractor. All equipment will remain the property of the contractor. A suitable non-freezing type fire extinguisher shall be furnished for each field office and materials laboratory.



## 740.41: Engineers Field Office (Type A)

In addition to the general requirements, the Type A office shall provide a minimum of 450 ft<sup>2</sup> of floor space with two outside doors, six windows and be furnished as follows:

- A slant top drafting table, 36-in. x 72-in. minimum size, two plan racks and a closet equipped with a lock.
- Two office type desks, minimum top dimensions 30-in. x 60-in., with two or more drawers on each side.
- Four desk chairs on casters with adjustable height tilt seat.
- Four stools (Drafting table type).
- One fire resistant drawer-type safe, legal size, with combination lock. Combination to be reset at the direction of the Engineer and revealed only to them.
- A utility table 30 in. high, minimum top size 30-in. x 60-in.
- Two legal size, fire-resistant metal filing cabinets, 4 drawer, with locks.
- An electric sanitary hot and cold water cooler, supplied with cups and drinking water, a 3 ft<sup>3</sup> capacity refrigerator with freezer compartment and a 1 ft<sup>3</sup> capacity microwave oven.
- An electric adding machine, tape type, with tape.
- Office equipment as follows:
  - A fully automatic electric calculator, with printout and sufficient supply of tapes.
  - Quantity Control Ledger covers, National model no. 94-592 or approved equal. QCL covers shall become the property of the Department.
  - A smoke alarm capable of being heard 500 ft away.
  - 2 portable amber colored strobe lights for mounting on vehicles.
- Safety helmets and safety vests for all Department Construction personnel assigned to the project. The safety equipment will not carry any marking such as the name of the Contractor and shall remain the property of the Contractor after completion of the project.
- A trailerized office shall be provided with a one half bath that shall consist of a full size water closet and a porcelain steel lavatory recessed in a plastic top. The drain and vent lines shall be A.B.S. plastic and supply lines shall be type L copper. A 6-gallon electric water heater shall be provided.
- First Aid Kits shall be provided in the amount and with contents as specified in the current requirements of the Massachusetts Department of Labor and Industries regulations.
- One new or like new Survey Transit, complete with tripod and storage container, for the exclusive use of the Resident Engineer for the duration of the contract. The transit shall be suitable for Construction Surveys, to establish line and grade, equipped with horizontal circle direct-reading to 1 minute and vernier calibrations graduated to at least 20 seconds, a vertical angle gradation with vernier to 30 seconds, crosshairs for stadia measurements, optical plumbing capability. A compatible level rod with a minimum length of 12 ft shall also be supplied for setting elevations for structures, grades, and stakes.
- One 2-ft electronic smart level, one 100-ft steel tape, one 100-ft cloth tape and one plumb bob.
- One electrostatic or plain paper copier capable of producing 8.5-in. x 11-in., or 8.5-in. x 14-in. copies. Included shall be the cost of paper and chemicals. The total cost for the paper and chemicals shall not exceed \$500, for the life of the project. Only one copier will be required if there is more than one Field Office in the Contract.

- The Contractor shall assume the cost of all equipment, including installation, service, maintenance, and removal. A working telephone with an answering machine shall be provided at the Engineer's Field Office.
- The following materials testing and sampling equipment shall be supplied if the Contract specifies 150 yd<sup>3</sup> of cement concrete or more and does not require a Materials Laboratory.
  - One Air Meter ¼ ft<sup>3</sup> Press-Ur-Meter Type (Ref. AASHTO T 152 and ASTM C231).
  - Two Concrete Curing Boxes meeting the requirements of AASHTO T 23, Section 9.
  - A Quick Check Air Indicator Kit meeting the requirements of AASHTO T 199.
  - One complete Slump Test Outfit (Ref. AASHTO T 23 and T 119M/T 119), as follows:
    - A slump cone of seamless spun metal, with handles and foot clamps.
    - A tamping rod, 24 in. long, 5/8-in. diameter, with hemispherical end.
    - A sturdy pan, 14 gauge metal, with reinforced rims (24 in. x 24 in. x 3 in.).
    - A brass-wire briquette brush.
    - A wooden handled steel trowel, 3.5 in. x 7 in.
  - One wheelbarrow, minimum 2 ft<sup>3</sup> volume.
  - One longhandled shovel.
  - If 150 yd<sup>3</sup> of lightweight concrete are specified in the Contract, the following shall be supplied:
    - One Roller Meter type air meter (Ref. AASHTO T 196M/T 196).
    - One Unit weight bucket (Ref. AASHTO T 121M/T 121).
    - One platform beam scale, capacity 200 lb, sensitivity 0.01 lb, with two beams at front of platform, reading to 20 lb by single pounds and to 1 lb by 0.01 lb, with additional hanger weights to fulfill capacity of 200 lb; all parts to be of steel with enclosed weighing mechanism, platform to be 12.5 in. x 14 in. A digital platform scale, with a minimum capacity of 200 lb, with similar sensitivity can be substituted. Scale must be calibrated immediately prior to start of Contract.
- The following shall be supplied if the Contract specifies painting of bridges:
  - Two Each Wet Film Thickness gauges (1 to 13 mils range).
  - One Dry Film Thickness Gauge (Tooke Mark III or equal) equipped with spare set of cutting tips.
  - One Dry Film Thickness (Gauge Nordsen or Inspector Model III) range 0 to 25 mils.
  - One Sling Psychrometer.
- The following sampling containers are to be supplied in the minimum quantity listed and more as needed to complete the project. All unused containers remaining at the close of the project shall be delivered to the District laboratory and become property of the Department.
  - Flat Bottom Poly Lined Kraft Paper Bags capable of holding 60 lb of soil or aggregates with dimensions of at least 12 x 3 x 25 in. Supply a minimum of 50 bags.
  - 4-in. or 6-in. Plastic Cylinder Molds and Covers meeting the requirements of AASHTO M 205M/M 205 and approved for use by RMS. Supply 5 cylinders molds per 150 yd<sup>3</sup> of concrete placement or fraction thereof with a minimum of 50 molds.
  - 1-qt Metal Cans with friction top covers. Supply a minimum of 12 cans when the contract specifies bridge painting.
  - 1-qt Wide Mouth Plastic Bottles and Covers designed to hold acid. Supply a minimum of 12 bottles when the contract specifies bridge painting or traffic paint.



- Cardboard Sample Boxes for hot mix asphalt. The sample boxes shall have dimensions of at least 17 x 12 x 4.5 in. and fold to provide a tight closure for transporting. Supply a minimum of 25 boxes.

## 740.42: Engineers Field Office (Type B)

Engineers Field Office (Type B) shall be equipped as described in 740.41: Engineers Field Office (Type A) except that the minimum floor space shall be 350 ft<sup>2</sup>.

### COMPENSATION

#### 740.81: Basis of Payment

Payment for work under these items will be at the respective contract unit bid price for Engineer's Field Office and Equipment (Type A) and Engineering Field Office and Equipment (Type B).

Payment as described above shall be compensation for all services (heat, gas, light, water, sanitary, telephone, etc.) for all labor, material, fencing, surfacing, equipment service (including general inside cleaning at least once each week) and incidentals necessary to provide, equip, maintain, insure, remove and dispose of the buildings and clean the site as specified and directed. The contract unit bid price will prevail for buildings built or furnished as described, for equivalent trailer space, or office space rented in existing buildings, when such substitution has been approved.

#### 740.82: Payment Items

Item number	Description	Unit
740.	Engineer's Field Office and Equipment (Type A)	Month
741.	Engineer's Field Office and Equipment (Type B)	Month

# New Hampshire



## Basic Information

### Summary

New Hampshire's DOT requirements for field offices mostly include the standard regulations that we see in other states. However, what's different is that there are **four types of field offices**, with one of them including regulations for **field laboratories**.

We'll cover the rest below, and you can find all the information you need on the [New Hampshire Department of Transportation website](#) as well.

#### NHDOT Contact Page:

<https://www.nh.gov/dot/contactus/index.htm>

#### NHDOT Laws, Policies, & Procedures Page:

<https://www.nh.gov/dot/laws/index.htm>

#### NHDOT Public Information Office Number:

(603) 271-6495

#### Mailing Address:

New Hampshire Department of Transportation  
John O. Morton Building  
7 Hazen Drive  
PO Box 483  
Concord, New Hampshire 03302-0483

# Layouts

New Hampshire



New Hampshire has **four field office layouts**:

- Type A
- Type B
- Type C
- Type D and Field Laboratory

Types B, C, D, and any field laboratories have a minimum ceiling height of **seven feet**. Every type of field office must also be equipped with a built-in lavatory and toilet facility with hot and cold water.

## Type A

The Type A field office designation in New Hampshire is considered the “Special Provision” option and doesn’t have any specific size requirements. Instead, it must meet the minimum size requirements as described by the Special Provision included in the Proposal.



**12' x 64' field office**



# Layouts

## Type B

The Type B field office designation in New Hampshire must have a minimum of **650 square feet** of nominal floor space. It should also have a minimum of **three partitioned areas, with two dedicated to specified uses**. One area of approximately **120-150 square feet** for installing all computer components and another approximately **250 square feet** to be used as a conference room.



12' x 60' field office (Triumph Modular Silverline)

## Type C

The Type C field office designation in New Hampshire must have a minimum of **300 square feet** of nominal floor space. It also must be partitioned into **two separate areas**, with one of those areas having approximately **125 square feet** of space with an interior door and lock.



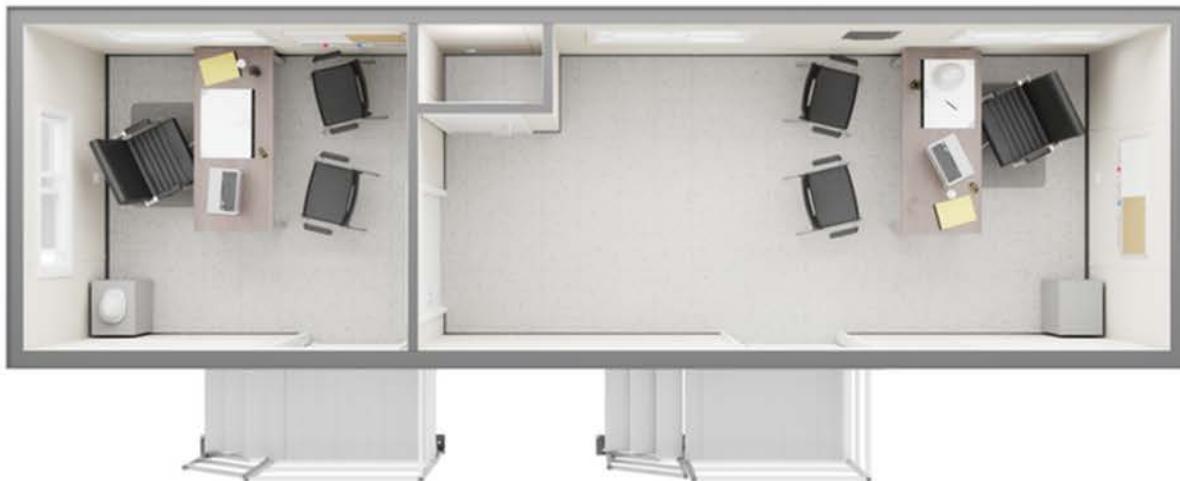
10' x 44' field office



# Layouts

## Type D and Field Laboratory

The Type D and Field Laboratory designation in New Hampshire must have a minimum of **200 square feet** of nominal floor space. There are no specific requirements for interior partitions.



**8' x 32' field office**

# Specifications

**Note:** This section is a reproduction of the current NHDOT requirements for field offices. For more information, consult the New Hampshire Department of Transportation Website.

## SECTION 698

### SECTION 698 -- FIELD FACILITIES

#### Description

#### Materials

- 2.1.1 Field Office Type A.
- 2.1.2 Field Office Type B.
- 2.1.3 Field Office Type C.
- 2.1.4 Field Office Type D and Field Laboratory.
- 2.2 Field Office Equipment.
- 2.2.1 Equipment Required for all Field Offices.
- 2.2.2 Additional Equipment for Field Office Type A, Type B, Type C, and Type D

#### Construction Requirements

- 3.1 Facilities.
- 3.2 Maintenance, Service, and Utilities.

#### Method of Measurement

#### Basis of Payment

#### Description

1.1 Under this section, the Department will pay for the use of Contractor owned and Contractor maintained field offices Type A, Type B, Type C, Type D and physical testing laboratories set-up and maintained by the Contractor during the construction of the project. This work will include installing, leveling, maintaining, and removing facilities and providing the required equipment and services. The location of the facilities shall be within approximately  $\frac{1}{4}$  mile of the project limits and subject to the approval of the Engineer.

#### Materials

2.1 General. Housing for field offices and laboratories shall be mobile office space or building office space, which meet the following minimum requirements:

#### 2.1.1 Field Office Type A.

Dimensions:	Shall meet the minimum size requirements as described by the Special Provision included in the Proposal.
Interior:	Shall meet the minimum size requirements as described by the Special Provision included in the Proposal.
Lavatory:	Built-in lavatory and toilet facilities with hot and cold water.
Electrical:	Adequate overhead lighting at each work area and two power outlets per room, including one exterior outlet light near entrance.
Air Conditioner(s):	Central air conditioning or a sufficient number of individual units to maintain a maximum temperature of 78° F.
Heat:	Thermostatically controlled to maintain a minimum temperature of 68° F.
Weatherproofing:	Roof, sides, and floor shall be maintained weatherproof at all times.

#### 2.1.2 Field Office Type B.

Dimensions:	Minimum of 650 ft <sup>2</sup> of nominal floor space and minimum of 7 ft. in height.
Interior:	Minimum of three partitioned areas. One area shall be approximately 120-150 ft <sup>2</sup> for the installation of all computer components with interior door and lock. Another area shall be approximately 250 ft <sup>2</sup> for use as a conference room. Each major area shall have telephone plug-in jacks. The computer area shall have an additional telephone jack for the computer.
Lavatory:	Building office space: Built-in lavatory and toilet facilities with hot and cold water. Mobile office space: Portable toilet facilities per 2.1.5
Closets:	Built in, approximately 22 in deep by 3 feet wide.
Windows:	Minimum of two per partitioned area with locks and screens providing cross ventilation.
Doors:	Minimum of two with locks.

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Electrical:	Adequate overhead lighting at each work area and two power outlets per room, including one exterior outlet light near entrance.
Air Conditioner(s):	Central air conditioning or a minimum of two individual units (one in the computer area) sized to maintain a maximum temperature of 78° F.
Heat:	Thermostatically controlled to maintain a minimum temperature of 68° F.
Weatherproofing:	Roof, sides, and floor shall be maintained weatherproof at all times.

### 2.1.3 Field Office Type C.

Dimensions:	Minimum of 300 ft <sup>2</sup> of nominal floor space and minimum of 7 ft. in height.
Interior:	Minimum of two partitioned areas, one being approximately 125 ft <sup>2</sup> with interior door and lock.
Lavatory:	Building office space: Built-in lavatory and toilet facilities with hot and cold. Mobile office space: Portable toilet facilities per 2.1.5
Closets:	Built in, approximately 22 in deep by 3 feet wide.
Windows:	Minimum of four with locks and screens providing cross ventilation.
Doors:	Minimum of two with locks.
Electrical:	Adequate overhead lighting at each work area and two power outlets per room, including one exterior outlet light near entrance.
Air Conditioner(s):	Central air conditioning or a minimum of two units (one in the computer area) sized to maintain a maximum temperature of 78° F.
Heat:	Thermostatically controlled to maintain a minimum temperature of 68° F.
Weatherproofing:	Roof, sides, and floor shall be maintained weatherproof at all times.

### 2.1.4 Field Office Type D and Field Laboratory.

Dimensions:	Minimum of 200 ft <sup>2</sup> nominal floor space and a minimum of 7 ft. in height.
Windows:	Minimum of two with locks and screens providing cross ventilation.
Lavatory:	Building office space: Built-in lavatory and toilet facilities with hot and cold water. Mobile office space: Portable toilet facilities per 2.1.5.
Closets:	Built in, approximately 22 in deep by 3 feet wide.
Doors:	Minimum of one with lock.
Electrical:	Adequate overhead lighting at each work area and two power outlets per room, including one exterior outlet.
Air Conditioner:	Central air conditioning or individual unit(s) sized to maintain a maximum temperature of 78° F.
Heat:	Thermostatically controlled to maintain a minimum temperature of 68° F.
Weatherproofing:	Roof, sides, and floor shall be maintained weatherproof at all times.

**2.1.5** Toilet facilities for mobile office space shall be a separate facility fabricated from steel, fiberglass, or wood, housing a portable chemical toilet, provided by the Contractor. This building shall be well ventilated, shall conform to State law, and shall have a vented chemical tank and a separate urinal. This facility should also be equipped with water-less hand cleaner/sanitizer.

**2.1.5.1** For mobile office space, non-operational toilets and sinks shall be removed so that the space can be used for additional storage. Any holes or exposed plumbing left behind due to the removal of the toilet and sink shall be adequately protected.

## 2.2 Field Office Equipment.

### 2.2.1 Equipment Required for all Field Offices.

Water Cooler:	1, new or like new 5 gallon capacity, bottled water supplied and maintained.
MUTCD:	The current edition of the Manual on Uniform Traffic Control Devices for Streets and Highways and any supplements or amendments thereto, available from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.
Measuring Wheel:	1, 15" minimum diameter with capacity to record up to 10,000 feet to the tenth of a foot, built-in stand, and storage case.
4" direct reading level	
10' metal straight edge:	Light-weight metal straightedge with a rectangular cross-section of 2 by 4"

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Marking Paint:	Adequate supply, lead-free, non-clogging; color as ordered by the Engineer.
Pencil Sharpener:	1, standard size.
Calculator/Adding Machine	1, desktop print/display with minimum of ten digits.
Facsimile Machine:	<p>This machine shall have the capability of sending and receiving 8-1/2 x 11 in on paper on a single separate committed telephone line. The following minimum specifications shall also apply:</p> <p>Transmission time: 16 seconds per page at standard resolution  Transmission speed: 10ms/line @ 98 lines/in.  Reception speed: 20ms/line @ 98 lines/in.  Document length: 14.5" maximum, 4" minimum  Auto document feed: 15 pages maximum  Horiz. Print resolution: 203 pixels/in.  Vertical print resolution: 98 lines/in., standard  All connections and supplies necessary to allow successful operation of this machine shall be provided by the Contractor.</p>
Thermometer:	1, indoor/outdoor type.
Trash Receptacle:	1, per portioned space including trash bags.
Three Hole Punch	1, each.
Vacuum Cleaner:	1, electric (5hp minimum), utility shop-vac (10 gal capacity minimum) with 25 ft. extension cord.
Floor Broom/Dust Pan:	1 each.
First Aid Kit:	<p>Shall contain a minimum of:</p> <ul style="list-style-type: none"> <li>20-adhesive bandages, 3/4" wide.</li> <li>1-first aid tape, 1/2 by 180"</li> <li>1-flexible gauze bandage, 2 by 126"</li> <li>1-flexible gauze bandage, 4 by 126"</li> <li>1-triangular bandage</li> <li>10-antiseptic swabs</li> <li>3-sterile pads, 3 by 3"</li> <li>3-ammonia inhalants</li> <li>antiseptic cream</li> <li>aspirin</li> <li>eyewash kit</li> <li>poison ivy cream</li> <li>scissors</li> <li>tweezers</li> <li>1, current first aid book</li> <li>bug and/or tick repellent</li> </ul>
Rain Gauge:	1, constructed from a clear material, minimum 1/4" permanently marked graduations, minimum 6" capacity with mounting bracket.

### 2.2.2 Additional Equipment for Field Office Type A, Type B, Type C, and Type D

Water:	Type A: Water service to supply lavatory
Fire Extinguisher:	Type A, B & C: 2, multi-purpose (A, B, C), dry powder, minimum 5 lb. size. Type D: 1, multi-purpose (A, B, C), dry powder, minimum 5 lb. size.
Office Desks:	Type A: per Special Provision included in the Proposal. Type B: five furnished with drawers. Type C: four furnished with drawers. Type D: one furnished with drawers.
Desk Chairs:	Type A: Per Special Provision in the Proposal. Type B: five Type C: four Type D: one
Conference Table:	Type A: Per Special Provision included in the Proposal. Type B & C: 1, minimum dimensions 8 ft. by 2.5 ft.
Folding Chairs:	Type A: Per Special Provision included in the Proposal. Type B: ten Type C & D: four

# Specifications



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Drafting tables	Type A: Per Special Provision included in the Proposal. Type B: 2, at least 6 ft. by 3 ft. - 3", approximately 3 ft. high, with two drafting stools per table. Type D: 1, at least 6 ft. by 3 ft.-3in., approximately 3 ft. high, with two drafting stools per table.
Copier:	1, desktop, letter and legal size, minimum of eight copies per minute, reduction and enlarging capability with supplies and maintenance.
File Cabinet:	1 four-drawer, or 2 two-drawer, fire resistant, legal size; inside dimension approximately 10 by 15 by 26" each, with lock(s) and key(s). The file shall bear an Underwriters Laboratories " C" Label - 350°F for one hour, inside surface.
Plan Rack or File:	Type A & B: two, for 2 by 3 ft. prints Type C & D: one, for 2 by 3 ft. prints

**2.2.2.1** Desk chairs and drafting stools shall be 5 pedestal on wheels and adjustable with back support. All office furniture shall be in good, safe working order and condition.

**2.2.3** The Contractor Shall Provide Additional Equipment as Required by the Special Provision Provided in the Contract Proposal.

**2.2.4** The field office Type D shall also include the following testing equipment for determining gradation of gravels. This testing equipment shall be maintained in a satisfactory condition.

- (a) Balance: triple beam, at least 2000 grams capacity, sensitive to 0.1 gram, including carrying case.
- (b) Field scale: at least 70 lb. capacity, sensitive to 0.01 lb.
- (c) Hot plate or stove: two-burner, electric or bottled gas.
- (d) Sieves: set of U.S. Standard 8" brass, 2" high, consisting of one each No. 16 and No. 200 sieves, with pan and cover.
- (e) Shaker: motor driven, for 8" sieves.
- (f) Riddles: set of 16" wood, metal or plastic consisting of one each 3", 2", 1-1/2", 1", 3/4" and No. 4.
- (g) Canvas: heavy, 5 by 5 ft, for quartering samples.
- (h) Miscellaneous small tools and containers: shovels (one round pointed and one square pointed), assorted pans such as cake tins, and two pails.
- (i) Proctor mold: 4", capacity 1/30 ft<sup>3</sup> (AASHTO T 99).
- (j) Proctor hammer: 5.5 lb, free fall of 12" (AASHTO T 99).
- (k) Straight edge: steel (1-1/2 to 2 in wide), with a 12" beveled edge.
- (l) Moisture determination apparatus (Speedy Moisture Tester): calcium carbide type, 20 gram or 26 gram size.

**2.3 Field laboratory equipment.** The physical testing laboratory shall be provided with the scientific equipment required to perform physical tests for embankment compaction and grading, and for determining the suitability of the base course materials in conformity with standard AASHTO procedure. Following is a list of minimum equipment required to be maintained in a satisfactory condition for the use of the Engineer and the Contractor:

- (a) Proctor mold: 4", capacity 1/30 ft<sup>3</sup> (AASHTO T 99).
- (b) Proctor hammer: 5.5 lb, free fall of 12" (AASHTO T 99).
- (c) Straight edge: steel (1-1/2 to 2 in wide), with a 12" beveled edge.
- (d) Balance: triple beam, at least 2000 grams capacity, sensitive to 0.1 gram, including carrying case.
- (e) Field scale: at least 70 lb. capacity, sensitive to 0.01 pounds.
- (f) Hot plate or stove: two-burner, electric or bottled gas.
- (g) Shaker: motor driven, for 8" sieves.
- (h) Sieves: set of U.S. Standard 8" brass, 2" high consisting of one each No. 4, 8, 16, 50, 100, and 2 each No. 40 and 200 sieves, with pan and cover.
- (i) Riddles: set of 16" wood or metal, consisting of sizes 3 in, 2 in, 1-1/2 in, 1 in, 3/4 in, 1/2 in, 3/8 in, and No. 4.
- (j) Canvas: heavy, 5 by 5 ft, for quartering samples.
- (k) Moisture determination apparatus (Speedy Moisture Tester): calcium carbide type, 20 gram or 26 gram size.
- (l) Sieve shaker: mechanical, for gravel, (mounted outside and independent of the laboratory building) holding 18 by 24" tray including 2 in, 1-1/2 in, 1 in, 3/4 in and No. 4 screens.
- (m) Fire extinguisher: 1, multi-purpose (A,B,C) (dry powder) minimum 5 lb. size.
- (n) Graduate: 100 mL, plastic.

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- (o) Miscellaneous small tools and containers as necessary: Such as shovels (one round pointed and one square pointed), crowbar, pickaxe, 6" blade knife, sampling spoon, small trowel, measuring scoop, assorted pans similar to roasting pans and cake tins, and a floor broom.
- (p) Bench oven: electric, 110 volt, minimum volume 7.5 cubic feet.
- (q) Sample splitter: minimum chute width 1"

**2.3.1** The laboratory shall be furnished with a heavy work table approximately 3 ft. high by 3 ft. wide and extending the length of the building. Suitable shelves and benches shall be provided as directed.

**2.3.2** The laboratory shall be equipped with an elevated clean water tank having a minimum capacity of 275 gal which shall be supplied with potable water as directed. The tank shall be piped to a faucet at an approved sink within the laboratory.

**2.3.3** To provide a suitable foundation for the mold to rest on when the AASHTO T 99 density test is being performed, a solid block of concrete approximately 18" deep, having a flat top approximately 1 ft. square shall be set practically flush in the ground at an approved location near the field laboratory.

**2.3.4** This field laboratory and equipment is in addition to any other requirements specified in Sections [Section 401](#) and [520](#).

**2.4 Miscellaneous Office Supplies.** In addition to the materials listed in 2.1, 2.2 and 2.3, upon written request the Engineer may require the Contractor to furnish miscellaneous office supplies such as field books, cross section paper, loose-leaf binders, etc., as appropriate.

### Construction Requirements

#### 3.1 Facilities.

**3.1.1** Field offices and field laboratories shall be on the project, leveled and ready for use prior to the start of any operations. Acceptance of the physical testing laboratory will not be given until the equipment has been inspected and approved by representatives of the Bureau of Materials and Research. Testing equipment shall be calibrated by the Contractor in accordance with [106.03](#). These facilities shall be removed when the project is completed unless released earlier by the Engineer.

**3.1.2** When field offices or field laboratories are to be placed on private property, the costs incidental to such placement shall be borne by the Contractor. Prior to Acceptance of the Work, the area shall be restored to the acceptance of the property owner and the Engineer. A written release from the property owner will be required.

**3.1.3** Field offices and field laboratories shall not be combined, nor shall they be combined with the scale house or other similar structure.

**3.1.4** Field offices and toilet facilities shall be for the exclusive use of Department personnel.

#### 3.2 Maintenance, Service, and Utilities.

**3.2.1** The Contractor shall furnish the following for a field office Type A, Type B, Type C, Type D or physical testing laboratory:

- (a) Fuel. Adequate supply for heating and testing operations.
- (b) Electricity. A 3,000 watt, 115-125 volt AC facility for each field office and field laboratory. Independent generators shall be provided where commercial power is not available.
- (c) Telephone. Telephone service, telephone and telephone message recorder shall be provided in the field office. Telephone service shall include a separate line for the telephone with 2 jacks one adjacent to the computer, a separate voice-grade, touch-tone dialing line for the computer modem, and a third voice-grade, touch-tone dialing line for the FAX machine. All necessary hardware and appurtenances for the computer modem shall be provided to the computer room, when a computer is supplied.
- (d) Sanitary. Toilet facilities as described in 2.1.5 shall be serviced and maintained in a sanitary condition.
- (e) Maintenance, including trash pickup and disposal.
- (f) First Aid Kit. Shall be maintained and restocked as necessary or as directed.
- (g) Access. Parking areas, including entrances and exits shall be adjacent to the field offices and maintained for year round access. This includes snow removal as long as field offices are occupied and preparing access areas so non-paved surfaces won't track in wet conditions.

**3.2.2** The Contractor shall maintain all furnished equipment in good working condition and shall provide replacement or repair of equipment due to breakdown, damage, or theft, within two (2) working days of notice.

### Method of Measurement

**4.1** Field offices and Physical testing laboratory of the type specified and used on the project by the Engineer will be measured by the month, from the date each field office or physical testing laboratory is completely furnished and ready for occupancy, as

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# Specifications



## SECTION 698

determined by the Engineer, to the date that it is released back to the Contractor. Periods of less than one month will be computed at the rate of 1/30 of the unit price per month for each day of occupancy by the Engineer.

### Basis of Payment

**5.1** Payment for each accepted Field Office or physical testing laboratory, installed as specified, will be made at the corresponding Contract unit price per month. Such payment shall constitute full compensation for furnishing and erecting the field office or physical testing laboratory; for providing the specified utilities and maintaining the field office or physical testing laboratory and its equipment throughout the period of usage by the Engineer, including periods of project suspension and for restoration of the field office or physical testing laboratory is needed on the project.

**5.1.1** The costs of all project related telephone service, including installation; monthly fees; taxes; any activation fees; internet access as specified; unlimited local calls; and toll calls up to \$300.00 per month shall be paid by the Contractor, subsidiary to the field office. The Department will reimburse the Contractor for any toll calls incurred by State personnel above \$300.00 per month as provided for in [109.04](#).

**5.2** No payment will be made for periods of time in which the Contractor fails to comply with any of the requirements of this specification.

**5.3** No payment will be made for time periods for which the Contractor fails to complete the Work on time as specified in [108.07](#).

**5.4** The material cost of miscellaneous office supplies only, will be paid for as provided in [109.04](#). No payment for labor costs incidental to procuring these supplies will be authorized.

### Pay items and units:

698.11	Field Office Type A	Month
698.12	Field Office Type B	Month
698.13	Field Office Type C	Month
698.14	Field Office Type D	Month
698.2	Physical Testing Laboratory	Month



## Basic Information

### Summary

Of all the states listed here (other than West Virginia), Ohio has the most basic requirements and specifications for DOT trailers.

Their layouts follow the same pattern as many of the other states with three different types: Type A, Type B, and Type C. We'll be covering the details below, but you can find any other information on the Ohio Department of Transportation [website](#).

#### ODOT Contact Form:

<https://www.dot.state.oh.us/feedback/Pages/feedback.aspx>

#### ODOT Construction Projects Page:

[Construction Projects Page link](#)

#### ODOT Phone Number:

(614) 466-7170

#### Mailing Address:

1980 West Broad Street  
Columbus, OH 43223

# Layouts



Ohio has three DOT trailer types:

- Type A
- Type B
- Type C

The minimum ceiling height for all three types of DOT trailers in Ohio is **seven feet**. They also must have a minimum of **two telephones** with all the wiring and other accessories necessary to operate them.

## Type A

The Type A field office in Ohio is the smallest of the three—it has a minimum floor space of **150 square feet**. It also requires a minimum of **four all-weather parking spaces**.



**8' x 24' field office**



## Type B

The Type B field office in Ohio is the middle size. This one has a minimum floor space of **500 square feet**, and a minimum of **eight all-weather parking spaces**.



**12' x 60' field office**

## Type C

The Type C field office in Ohio is the biggest size, with a minimum floor space of **1,000 square feet**. To be classified as Type C, the field office must also have a minimum of **10 all-weather parking spaces**.



**24' x 64' temporary building**



# Specifications

**Note:** This section is a reproduction of the current ODOT requirements for field offices. For more information, consult the Ohio Department of Transportation Website.

## Item 619 FIELD OFFICE

### 619.01 Description.

This work consists of providing, maintaining, and subsequently removing a field office for the exclusive use of the Department for the duration of the Contract at a location approved by the Engineer.

### 619.02 General.

Furnish a completely functional field office of the type specified in the Contract by the date directed by the Engineer.

Furnish each field office with a means for maintaining a room temperature between 68 and 80 °F (20 and 27 °C).

Furnish electric service for each field office.

Furnish potable hot and cold water for each field office.

Furnish neat, sanitary, enclosed toilet accommodations for each field office. Furnish associated lavatory and sanitary supplies. Portable facilities may be provided with the approval of the Engineer.

For projects requiring moisture and density control of construction materials, provide the field office with a lockable wood or metal storage box of sufficient size to store a nuclear density gauge and an electrical connection for the gauge.

For the type of field office specified, provide the items indicated in Table 619.02-1

# Specifications



Ohio

**TABLE 619.02-1 FIELD OFFICE**

Item	Type A	Type B	Type C
Minimum ceiling height, ft (m)	7 (2.1)	7 (2.1)	7 (2.1)
Floor space, ft <sup>2</sup> (m <sup>2</sup> )	150 (14)	500 (46)	1000 (93)
Separate enclosed room, ft <sup>2</sup> (m <sup>2</sup> ) (Part of specified floor space)	0 (0)	0 (0)	100 (9)
Telephone service & telephones <sup>[1]</sup>	2	2	2
Internet service connection <sup>[6]</sup>		1	1
Facsimile machine	---	1	1
Copying machine <sup>[2]</sup>	1, 8-1/2x14	1, 11x17	1, 11x17
Base radio & 4-hand held units <sup>[3]</sup>	---	---	1
Calculator with tape	1	2	3
Desk and chair set	1	3	5
Work table, 30 ' 72-inch (750 ' 1800 mm)	1	2	3
4-drawer, legal size, lockable metal file cabinet	---	1	2
2-drawer, metal file cabinet	1	2	2
Portable fire extinguishers <sup>[4]</sup>	1	1	2
Plan rack <sup>[5]</sup>	1	1	2
All-weather parking spaces	4	8	10
[1] For each telephone specified, provide the telephone itself, all wiring necessary to connect the phone and computers or fax machines to the phone company system, and a working separate phone number for each telephone. Connect one phone to a recorded answering device. For Types B and C, provide one speakerphone.			
[2] Capable of producing multiple copies of documents of the size designated; provide the copier with all necessary maintenance and paper supplies.			
[3] Capable of transmitting and receiving voice communication between office and any area on the project site.			
[4] Type 2-A:10-B:C, 5-pound (2.27 g) size			
[5] Capable of handling the breakdown of 22 ' 34-inch (559 ' 864 mm) sized plans in to ten sections.			
[6] Provide a broadband internet connection capable of download speeds greater than 1.5 Mbps. If 1.5 Mbps is not available, provide the highest speed available in the area.			

# Specifications

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With the Engineer's written approval, the Contractor may modify the requirements for the field office.

Maintain all utility services (e.g., electric, security, telephone, water) for the duration of the project.

Furnish a concrete cylinder curing box capable of holding at least eight 6 x 12 inch (150 x 300 mm) cylinders at 73 °F (23 °C) +/- 3 degrees no matter what the ambient temperature is when constructing either portland cement concrete pavement over 10,000 square yards (8000 m<sup>2</sup>) or over 50 cubic yards (38 cubic meters) of bridge structure repair or replacement concrete. The box will have a sealed lid.

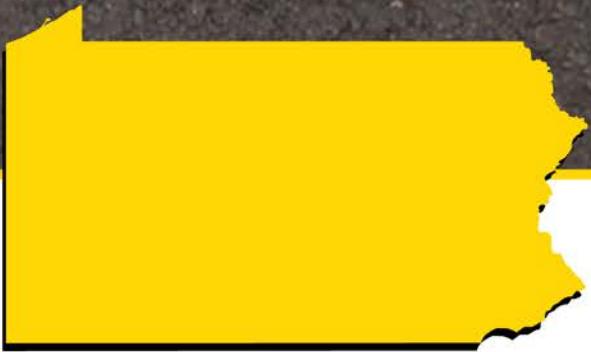
#### **619.03 Method of Measurement.**

The Department will measure Field Office, Type \_\_\_ by the number of months the office is maintained. A partial month at the end of the project will be paid as a full month.

#### **619.04 Basis of Payment.**

The Department will pay for accepted quantities at the contract price as follows:

Item  
Unit  
Description  
Month  
Field Office, Type \_\_\_



## Basic Information

### Summary

Of all the states listed in our guide, Pennsylvania has some of the most complex specifications and requirements for DOT trailers and field offices. In fact, they have **five types** that also include specifications for field laboratories and plant offices.

We've listed everything below, and you can always find more information on the Pennsylvania Department of Transportation [website](#).

**PennDOT Regional Offices Page:**

<https://www.penndot.pa.gov/RegionalOffices/Pages/default.aspx>

**PennDOT Construction Registration Page:**

[Construction Registration Page link](#)

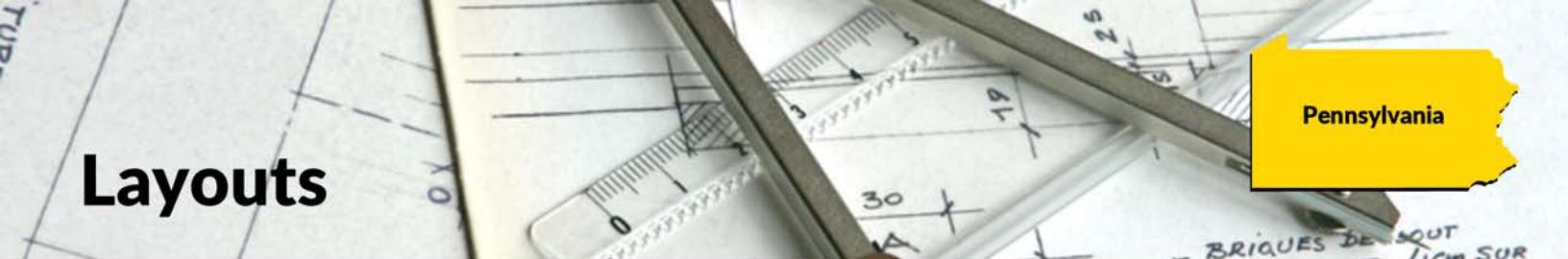
**PennDOT Phone Number:**

(717)-412-5300

**Mailing Address:**

Keystone Building  
400 North St  
Harrisburg, PA 17120

# Layouts



The state of Pennsylvania splits its field office designations into **five layouts**:

- Type A
- Type B
- Type C
- Proportioning Plant Office
- Field Laboratory

## Type A

The Type A field office in Pennsylvania is the largest, with a minimum floor space of **1,300 square feet**. Additionally, it must have **six individual partitioned rooms**.



**24' x 64' temporary building**

## Type B

The Type B field office in Pennsylvania has a minimum floor space of **650 square feet**. It also must have **three individual partitioned rooms**.



12' x 64' field office

## Type C

The Type C field office in Pennsylvania has a minimum floor space of **240 square feet**. It also must have **two individual partitioned rooms**.



10' x 44' field office

## Proportioning Plant Office

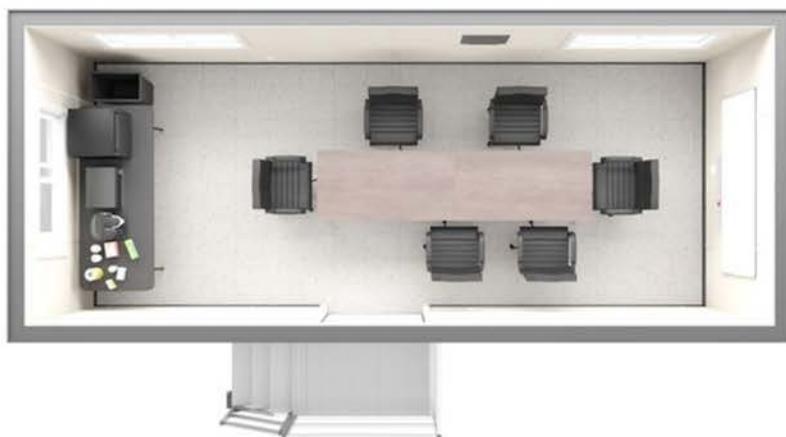
The Proportioning Plant Office designation in Pennsylvania must have a minimum floor space of **150 square feet**. It only requires **one individual partitioned room**.



8' x 24' field office

## Field Laboratory

The Field Laboratory designation in Pennsylvania must have a minimum floor space of **150 square feet**. Like the Proportioning Plant Office, the Field Laboratory only requires **one individual partitioned room**.



8' x 24' field office



# Specifications

**Note:** This section is a reproduction of the current PennDOT requirements for field offices. For more information, consult the Pennsylvania Department of Transportation Website.

609.1

609.2(a)

## SECTION 609—INSPECTOR'S FIELD OFFICE AND INSPECTION FACILITIES

**609.1 DESCRIPTION**—This work is furnishing, setting up, maintaining, and removing a field office of the type indicated and, if indicated, a field laboratory, proportioning plant office, and/or equipment package for the exclusive use of Department personnel. If Section 609 is excluded or waived from the contract, the requirement for providing sanitary facilities, as specified in Section 107.06, are not waived.

### 609.2 MATERIAL—

(a) **General.** Provide offices and laboratories having the minimum floor space specified, along with all required furnishings, equipment, and materials. Furnish office and laboratory facilities conforming to applicable occupational safety and health regulations, including, but not limited to, those governing sanitation, illumination, ventilation, means of egress, medical services and first aid, and fire protection. Ensure that offices and laboratories have at least 7-foot ceilings, locking windows, adequate electric lighting, an adequate number of storage cupboards and closets, a mail slot or drop box, and a private entrance secured with lock and key. Ensure that stairway systems installed for access to offices and laboratories include a handrail and non-skid treads. Provide systems to heat and cool interior spaces, as necessary, to maintain an ambient temperature between 65F and 75F. Maintain acceptable sanitary toilet facilities, for exclusive use by Department personnel, near or within offices and laboratories. Ensure that the number of sanitary toilet facilities furnished is sufficient based on the size of the Department inspection staff that will likely be stationed in the indicated office or laboratory. Maintain acceptable lavatory (wash-up) facilities near or within sanitary toilet facilities. If the field office is located in an existing building ensure that lavatory facilities are equipped with hot and cold (or tepid) running water; hand soap or similar cleansing agents; and clean, sanitary, cloth or paper hand towels or warm air blowers. If a construction trailer is used as a field office, ensure that a sanitary toilet facility is located near the field office, for quick access, and ensure that it is equipped with waterless hand soap or hand sanitizer. Provide a clean electrical power source (not derived from a portable generator) with sufficient capacity to allow unrestricted operation of all indicated electronic systems, appliances, and equipment. Furnish documentation certifying that indicated equipment requiring calibration has been calibrated within the last 12 months, and continue to have such equipment recalibrated annually for the duration of the project. If required furnishings and/or equipment being provided have been previously used, ensure that such items are in satisfactory condition and fully functional as of the scheduled start of work. Whenever practical, obtain maintenance agreements for communications, electronic, and/or specialized equipment that provide for on-site repair service. If malfunctioning equipment cannot be repaired on site, provide a replacement within a 24 hour time frame based on the relative importance of the piece to the timely performance of required project management functions as determined by the Representative.

1. **Inspector's Field Office.** Set up the indicated field office in an acceptable weatherproof building or trailer. Situate the field office in an acceptable location on or in the immediate vicinity of the project, separate from other construction offices. For field offices where multiple individual partitioned rooms are indicated, submit a floor plan showing the layout of the interior space for approval. Equip the field office according to Table A.

2. **Proportioning Plant Office.** If indicated, provide an office at the proportioning plant. Set up the indicated plant office in an acceptable weatherproof building or trailer. Equip the office according to Table A.

3. **Field Laboratory.** If indicated, provide a laboratory for materials and soils testing. Set up the indicated field laboratory in an acceptable weatherproof building or trailer situated in an acceptable location. Supply a gravity or pressure potable water system having at least a 100-gallon capacity and connected to a service sink with a faucet and acceptable outside drain. Do not drain or discharge wastewater into the surrounding environment; use a container of sufficient size to collect all drained or discharged wastewater and transport and dispose of wastewater at an approved site for handling such wastewater. Equip the field laboratory according to Table A.

4. **Nuclear Gauge Temporary Storage.** If indicated, provide a temporary storage location within the Inspector's Field Office or Field Laboratory for temporary storage of moisture density nuclear gauges by a Department Representative. Provide a temporary storage location consisting of an enclosed closet with a minimum area of 9 square feet and secured with two independent locks and keys. Provide all keys to only the licensed Department nuclear gauge operator. Do not provide keys to any other persons. Where possible, locate the closet at least 20 feet from a

# Specifications

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permanent workstation (i.e., desk area). Where a 20 feet minimum distance from a permanent work station is not reasonably possible, the Department licensed nuclear gauge operator will temporarily store the nuclear gauge within the storage location following current Department policy and procedures to prevent radiation exposure to the public.

**(b) Testing Equipment.** On projects where a Field Laboratory is indicated, furnish and maintain the following equipment for required testing of soil or aggregates:

Number of Each	Equipment
1	C.A. Mechanical Sieve Shaker with Timer
1	F.A. Mechanical Sieve Shaker with Timer
1	Set Standard Sieves for C.A.
1	Set Standard Sieves for F.A. and Soils
1	Unit Mass (Weight) Metal Container 1 cubic foot
1	Unit Mass (Weight) Metal Container 1/2 cubic foot
1	Platform Scale, 200-pound capacity, sensitive to 0.01 pound
1	Balance, 70.5-ounce capacity, sensitive to $3.5 \times 10^3$ ounce, with one complete set of Masses (Weights).
1	Exhaust Fan (for venting Mechanical Shakers)
1	Density Sample Extruder
1	Proctor Mold and Rammer
1	12-inch Steel Straightedge
2	Mixing/Drying Pans
1	Mixing Spoon
1	Broom & Dust Pan

In addition, on projects where a Field Laboratory is indicated and cement concrete, asphalt concrete, and/or construction aggregates are to be used; furnish and maintain the equipment specified in Section 704.2(a), in the plant requirements of Bulletin 27, and/or in Sections 703.1(b) and 703.2(b), respectively.

When specified, provide an on-site cylinder breaking testing machine conforming to PTM No. 604 for use by Contractor's certified technicians and Department personnel to determine the compressive strength of molded concrete cylinders. The testing machine is to be calibrated annually, every time it is moved to a new location, immediately after making repairs or adjustments which may affect the operation of the system, and whenever there is any reason to doubt the accuracy of the testing machine.

**(c) Communications Equipment.** When indicated, provide the communications equipment specified in the proposal. Furnish communications equipment in the quantity indicated and meeting the following requirements:

**1. High Capacity Multifunctional Device (MFD): Copier, Scanner, Fax, and Printer.** A Windows 10 compatible network enabled digital color laser copier, with automatic document feeder, having reduction/enlargement functions capable of accepting maximum 11-inch by 17-inch size originals and producing 11-inch by 17-inch size copies at a minimum rate of 45 letter size copies per minute. Device will have three paper drawers to accommodate letter, legal, and tabloid paper sizes. Include sufficient imaging cartridges (toner/drum/developer) to yield a minimum of 5,000 copied pages, as well as printer driver software to install on the computer devices. Device will have air print (wireless) capability. During the removal of the high capacity MFD, from the field office, reset the device back to factory settings in the presence of the Inspector-in-Charge. Remove the internal hard drive from the high capacity MFD and surrender to the Inspector-in-Charge. Complete and submit Form CS-101B to the Inspector-in-Charge.

**2. Low Capacity Multifunctional Device (MFD): Copier, Scanner, Fax, and Printer.** A Windows 10 compatible network enabled digital color inkjet copier, with automatic document feeder, having reduction/enlargement functions capable of accepting maximum 11-inch by 17-inch size originals and producing 11-inch by 17-inch size copies at a minimum rate of 35 letter size copies per minute. Device will have two paper drawers to accommodate letter, legal, and tabloid paper sizes. Include sufficient imaging cartridges (toner/drum/developer) to

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yield a minimum of 5,000 copied pages, as well as printer driver software to install on the computer devices. Device will have air print (wireless) capability.

**(d) Specialized Equipment.** When indicated, provide the specialized equipment specified in the proposal. Furnish specialized equipment in the quantity indicated and meeting the following requirements:

**1. Surveyor's Level and Measuring Rod.** A standard, waterproof, surveyor's leveling instrument having, as a minimum, 20x magnification and a sighting range of up to 200 feet; with a job accuracy range within 1/4 inch at 75 feet. Include a 25-foot minimum, fiberglass measuring rod, folding leg tripod, rain cover, and carrying case.

**2. Electronic Digitizer.** A stationary or portable, high performance digitizer system capable of electronically measuring the exact, net area and perimeter of linear shapes on plan drawings at any scale, and converting those measurements to areas and volumes. Furnish electronic digitizer having a tablet with a minimum 22-inch by 36-inch active area. Include necessary cabling, carrying case, and all other operating essentials.

**3. Digital Display Level.** A durable level with automatic calibration function, that reads angles with precision and digitally displays readings in degrees, percent slope, and pitch to within 1/10 degree accuracy. Include battery(ies).

**4. Infrared Thermometer.** A hand-held, portable, non-contact thermometer capable of measuring temperatures between -4F and 482F and with a field of view (i.e., spot ratio) of at least 6:1. Include protective case, battery(ies) and all other operating essentials.

**5. Laser Range Finder.** A self-contained, light-weight, hand-held instrument that measures and records distances in feet, yards, or meters; having a maximum range of 750 feet to an uncooperative, non-reflective target; Liquid Crystal Display (LCD); and shock/water resistant housing. Include battery(ies), cabling, carrying case, and all other operating essentials.

**6. Paper Shredder.** Lightweight, crosscut shredder capable of shredding 10 sheets at one time.

**(e) Internet Service.** For each type field office indicated, purchase a subscription to a wired broadband Internet Service, for exclusive use by Department personnel, for the duration of the project. Provide high-speed wired broadband internet access, with a minimum connection of 10 Megabits per second (Mbps), by means of a Fiber, Cable or Digital Subscriber Line (DSL). Provide a wireless broadband router, with a minimum security setting of Wifi Protected Access II (WPA2), to connect to the provided wired broadband, to be managed by Department IT. Based on the specific type of high-speed connection provided, furnish a compatible modem with built-in hardware firewall protection. Purchase a separate internet service subscription for the Proportioning Plant Office, if indicated, as specified in Section 609.2(e).

If such high-speed wired broadband connection is not attainable within the area where the project office is located alternate internet connectivity with a minimum connection of 10Mbps options must be submitted to the District IT Administrator for review and acceptance.

Demonstrate connectivity with the internet service provider at the time of or immediately following microcomputer system installation.

**(f) Miscellaneous Materials.** For each microcomputer system that will be used on the project, as indicated in the proposal, at a minimum provide the following:

- Two (minimum), Memory Flash Drives 32 Gigabytes (GB) (minimum), encrypted to meet 2048-bit (minimum).
- 8 1/2 -inch by 11-inch and 8 1/2-inch by 14-inch, and 11-inch by 17-inch 20# white bond paper for copiers and printers, as specified, sufficient for the life of the project. Providing only one ream of paper at a time is unacceptable.

All miscellaneous material become Department property.

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Change No. 5

609.3

609.4(a)

**609.3 CONSTRUCTION**—Install the indicated facilities no later than 5 working days after the Notice to Proceed Date or 5 days before the scheduled start of work. Anchor the facilities to withstand high winds. Maintain the facilities from installation until 30 days after physical work (including completion of punch list items identified during the final inspection) has been completed, unless released earlier by the Representative. Clean or arrange for the indicated facilities to be cleaned at least once per week. Arrange for the weekly pick up and disposal of trash and recyclables including, but not limited to, paper, plastic, and ink/toner cartridges. Provide an adequate number of accessible parking spaces immediately adjacent or in close proximity to the offices or laboratory for exclusive use by Department personnel. Provide proper maintenance of parking areas. Ensure that there is sufficient lighting to illuminate the exterior of offices or laboratory and all parking areas. Designate a specific individual to serve as the contact person for service-related problems. After physical work has been completed, but before release by the Representative, arrange to meet with the Inspector-in-Charge to examine and determine the condition of all specialized equipment that is contractor-owned. Report all unresolved disputes over the condition of such equipment to the Representative. Failure to meet with the Inspector-in-Charge or to report problems with the condition of specialized equipment will create a presumption that, except for expected wear resulting from normal usage, the equipment is in good condition and remains fully functional. Specialized equipment that is lost or determined to be damaged beyond repair will be replaced or reimbursement will be made as specified in Section 110.03, provided such loss or damage is not the result of carelessness or negligence on the part of the Contractor or any other responsible third party.

The Representative may direct that the office or laboratory facilities and equipment package be maintained for more than 30 days after the date of physical work completion due to the Contractor's failure to submit, complete, and/or correct required certificates or documents, as established during the final inspection.

#### 609.4 MEASUREMENT AND PAYMENT—Lump Sum

The proposal will include separate pay items for the Inspector's Field Office and Inspection Facilities, Field Laboratory, Proportioning Plant Office, and Equipment Package, as applicable.

Each contract item will be paid, as specified in Section 110.05, in two equal payments, according to the following schedule:

- When work is completed in an amount equivalent to at least 10% of the original contract amount, excluding the bid price for the applicable item, the first payment will be made.
- When work is completed in an amount equivalent to at least 60% of the original contract amount, excluding the bid price for the applicable item, the second payment will be made.

**(a) Price Adjustments.** Adjustments to the lump sum prices bid for the indicated office or laboratory facilities and equipment package, as applicable, will be made as follows:

**1. Time Extensions and Reductions.** In the event the time for completion of all work on the project is extended or reduced, as specified in Section 108.06, an appropriate adjustment (payment to the Contractor or rebate to the Department) will be made to the lump sum prices bid for the indicated office or laboratory facilities and equipment package, as applicable, for the days in excess of (payment) or less than (rebate) the original contract time, at the following daily rate:

$$\text{Daily Price Adjustment Rate} = \frac{75\% \times \text{Contract Lump Sum Price}}{\text{Original Contract Time in Days}}$$

**2. Facilities Maintained for More than 30 Days After Physical Work Completion.** In the event the Representative directs that the office or laboratory facilities and equipment package be maintained for more than 30 days after the date of physical work completion, as specified in Section 609.3, an appropriate adjustment (payment to the Contractor) will be made to the lump sum prices bid for the indicated office or laboratory facilities and equipment package, as applicable, for the days in excess of 30 until released by the Representative, at the Daily Price Adjustment Rate specified in Section 609.4(a).

No adjustment will be made if the Representative directs that the office or laboratory facilities and equipment package be maintained for more than 30 days after the date of physical work completion due to the Contractor's failure to submit, complete, and/or correct required certificates or documents, as established during the final inspection.

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TABLE A

Office/Laboratory and Standard Equipment					
	Type A Field Office	Type B Field Office	Type C Field Office	Proportioning Plant Office	Field Laboratory
Floor Space square foot, out to out	1,300	650	240	150	150
Individual Partitioned Rooms	6	3	2	1	1
Conference Table & Chairs	1				
Desk(s) & Chair(s)	6	3	2	1	1
Office Chairs	15	9	6		
Plan Rack(s)	2	2	2		1
Work Table(s) <sup>(1)</sup>	5	3	2	1	1
Printer Stand(s) <sup>(2)</sup>	5	3	1		
4-Drawer File Cabinet <sup>(3)</sup>	4	3	2	1	1
2-Drawer File Cabinet <sup>(3)</sup>	2	1	1		
Sample Splitter <sup>(4)</sup>					1
Range <sup>(5)</sup>					1
Sanitary Electric Water Cooler	1	1	1	1	1
Individual Access Phone Line(s) <sup>(6)</sup>	4	4	4	3	
Surge Protectors <sup>(7)</sup>	6	4	4		
Telephone(s) w/ Answering Machine(s) or Voice Mail	2	2	2	1	

- (1) Work Table, Minimum size: 2 1/2 feet by 7 feet by 2 1/2 feet high.
- (2) Printer Stand. Specifically designed to accommodate laser and color printers, with paper storage/feeder tray. Minimum size: 18 inches by 18 inches by 2 1/2 feet high.
- (3) File Cabinets. Fire resistant (D-Label), lockable, metal file cabinet.
- (4) Sample Splitter. For coarse and fine aggregate, with adjustable chute opening.
- (5) Range. Standard, 36-inch range, gas or electric, new or used, with oven capable of operating at 230F ± 9F.
- (6) Individual Access Phone Line(s). The number indicated includes the phone line(s) needed for microcomputer system operation and Internet service.
- (7) Surge Protector. A minimum of six AC outlets and one telephone outlet, with a 6 foot minimum length cord, having a line voltage regulator/conditioner that protects against chronic high voltage, voltage spikes, and radio frequency interference.

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609.4(a)

Appendix  
TABLE A

EQUIPMENT PACKAGE	
Equipment	Quantity*
<b>Communications Equipment</b>	
High Capacity MFD <sup>(1)</sup>	
Low Capacity MFD <sup>(1)</sup>	
<b>Specialized Equipment</b>	
Surveyor's Level & Measuring Rod	
Electronic Digitizer	
Digital Display Level	
Infrared Thermometer	
Laser Range Finder	
Paper Shredder	
<b>Internet Service</b>	
Internet Service Provider	Yes/No
Wireless Internet Broadband Router <sup>(2)</sup>	Yes/No
<b>Miscellaneous Items</b>	
Computer Media	Yes/No
High Yield MFD Ink/Toners Cartridges	Yes/No
<b>Laboratory Equipment</b>	
Concrete Cylinder Testing Machine	

\* The special provision will be included in the proposal indicating the quantity of each type of communications, electronic, and/or specialized equipment to be furnished.

1. Unless otherwise approved, furnish a multifunction device in lieu of a separate copier, laser printer, color printer, scanner, and fax.
2. Provide compatible, powered internet hardware with firewall protection capable of wireless WPA2 security internet service and eight hardwired network ports, and pre-shared key. All cabling needed to interconnect network hardware and all microcomputer systems are required.

**Microcomputer Systems.** This information is being provided to assist Bidders in meeting the requirements as specified in Section 609.2(c), Communications Equipment, Section 609.2(e), Internet Service, and Section 609.2(f), Miscellaneous Materials. The special provision in the proposal will indicate the total number of microcomputer systems that will be used on the project.

Microcomputer systems may be furnished by the Department. If microcomputer systems are to be furnished by the Contractor, as part of the construction Contract, the bid will include applicable, 0688-XXXX bid items. When indicated, furnish microcomputer systems meeting the requirements as specified in Section 688.



## Basic Information

### Summary

Rhode Island has an extensive list of specs and requirements for field offices—much like Connecticut. However, just like Vermont, Rhode Island doesn't have different types of field offices. Instead, their specifications encompass all field offices in the state.

If you're looking for more information on the Rhode Island specifications, you can find them on the Rhode Island Department of Transportation [website](https://www.dot.ri.gov/about/help.php).

#### RIDOT Constituent Services Page:

<https://www.dot.ri.gov/about/help.php>

#### RIDOT Phone Number:

(401) 222-2450

#### RIDOT Mailing Address:

Rhode Island Department of Transportation  
Two Capitol Hill  
Providence, RI 0290



# Layouts

The one field office layout used in Rhode Island must have a minimum of **550 square feet of floor area, at least three rooms, and seven feet minimum of headroom**—unless specified otherwise in the Special Provisions of the Contract. It also must have a sufficient amount of windows to provide at least 27 square feet of natural light.



**12' x 64' field office**



# Specifications

**Note:** This section is a reproduction of the current RHDOT requirements for field offices. For more information, consult the Rhode Island Department of Transportation website.

## SECTION 929 — FIELD OFFICES

### 929.01 DESCRIPTION.

This work includes providing and maintaining an adequate weatherproof and ADA compliant field office for the exclusive use of the Engineer and his/her staff during both the Contract period and approximately 180 days thereafter.

### 929.02 GENERAL REQUIREMENTS.

#### 929.02.1 Location.

Locate the field office on a site that is both satisfactory to the Engineer and convenient to the Project site with dedicated parking facilities.

#### 929.02.2 Minimum Spatial Requirements.

Provide a field office laboratory that contains a minimum of 550 sq ft of floor area, at least three rooms, and a 7-ft minimum of headroom for Small Sized Projects (Contract value < \$10,000,000). For Projects with a Contract value  $\geq$  \$10,000,000, provide a field office that contains a minimum of 1000 sq ft of floor area, at least five rooms, 7 ft minimum of headroom, and a sufficient number of windows to provide at least 27 sq ft of natural light.

#### 929.02.3 Other Requirements.

- Permits and Inspections.** Arrange and comply with all necessary local and State regulatory permits and inspections, including all costs associated therewith.
- Occupancy.** Provide a field office that is fully equipped, operational, and ready for occupancy at least two weeks before the start of actual construction operations.
- Field Office.** Protect the field office against fire, flooding, and theft throughout the 24 hours of every day the unit is in service. The Contractor shall be responsible for the loss of any property belonging to the Department that is housed therein due to theft, fire, or natural causes.
- Insurance.** At the time the field office is made available to the Department, furnish evidence to the Engineer that adequate insurance has been obtained that protects the Department against loss of property from theft, fire, or natural causes.

In the event of fire, theft, or equipment breakdown, repair or replace all equipment involved as soon as possible. If the field office is destroyed or rendered untenable for any reason, replace the office within two weeks or as directed.

#### 929.02.4 ADA Considerations.

Ensure that the accommodations comply with Federal Law under Title I of the Americans with Disabilities Act (ADA).



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## 929.03 SPECIFIC REQUIREMENTS.

### 929.03.1 Outside Utilities.

- Electrical Power.** Arrange for electrical service for the field office and provide the necessary meter connections, fuse box, and switches as required by the power company, all according to State and local building codes. Ensure that the power supply is 115-volt, 60-cycle current of sufficient amperage to provide for heat, interior and exterior lighting, operating office equipment, and air conditioning.
- Sanitary Sewer Outfall.** Provide an adequate temporary outfall into either the municipal sanitary sewer system or an individual sewage disposal system that has been approved by the RI Department of Environmental Management. Ensure that the disposal of sanitary wastes conform to the applicable requirements of both the RI Department of Environmental Management and municipal regulations.
- Security.** Enclose all office trailer units within a 6-ft chain link fence with adequate gates and locks. Provide outside area floodlighting, together with appropriate timers, on all four sides of trailers.

### 929.03.2 Interior Utility Services.

- Lighting.** Ensure that lighting fixtures provide a minimum illumination of 70 ft-candles in all areas.
- Electrical Receptacles.** Provide duplex electrical receptacles as required in the State Building Code and as directed by the Engineer. Ensure that at least  $\frac{1}{3}$  of these receptacles have a 20-amp capacity.
- Heating and Air Conditioning.** Ensure that heating and cooling equipment can maintain a year-round temperature between 68°F and 78°F.
- Sanitary Facilities.** Provide a water closet, lavatory, slop sink, vent fan, and a hot water heater with a minimum 5-gal capacity.
- Network Internet Service.** Provide and install a secure high-speed internet service capable of interconnecting and networking a combination of eight computers, printers, copiers, and scanners, compatible with the equipment specified in **Subsection 929.03.5(c)**. Ensure that the provided high speed internet service has a minimum upload and download speed of 50 Mbps.

### 929.03.3 Doors and Windows.

Provide doors that are stock sizes and have a key-in-knob lock of an approved manufacturer. Ensure that all doors are keyed alike. Ensure that all windows:

- Are operative except for picture windows
- Are either double hung or casement type equipped with adequate locks
- Are provided with either shades or venetian blinds



# Specifications

- Have openings that are adequately screened
- For windows in sanitary areas, have frosted glass

## 929.03.4 Furnishings and Equipment

For both the field office and materials laboratory, provide the following and ensure that all are new or approved by the Engineer when received by the Department.

### a. Furnishings

- One worktable, 30 in. high, with a minimum of 24 sq ft of work area
- One drafting stool
- Two folding-type chairs
- One fire resistant, drawer-type safe, legal size, with combination or key lock
- One four-drawer, legal size metal filing cabinet equipped with lock
- Two two-drawer (14½ in. x 16 in.) metal filing cabinets
- Two round wastebaskets
- One plan rack of an approved design to be equipped with 10 rods

### b. Equipment

- A 5-lb CO<sub>2</sub> fire extinguisher from an approved manufacturer for each 200 sq ft of floor area
- A 115-volt, 60-cycle rotating fan
- One first-aid kit
- One electric sanitary water cooler with refrigerated storage compartment; supply with paper cups
- Toilet paper holders, paper towel dispensers, and soap dispensers in the toilet rooms

## 929.03.5 Special Requirements for Field Office

Provide a field office with the following, which are new or approved by the Engineer when received by the Department:

### a. Furnishings

- Three office type desks, minimum top dimensions of 32 in. x 60 in., with two or more drawers on each side
- Three swivel desk chairs
- Ten folding-type chairs with cushioned seating area
- One conference/meetings table, minimum top dimensions 42 in. x 96 in.



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b. Equipment

- Two fully automatic electronic calculators with tape
- One business grade, multi-function (copy, print, scan, fax) high volume stand-alone color/black printer with a print quality of 1200 by 1200 dpi minimum resolution for black and white printing and 1200 x 1200 optimized dpi for color printing, capable of printing 35 ppm (black and white) and 35 ppm (color) and capable of scanning 20 ppm in PDF format @ 600 dpi, stapling and three-hole punching. Provide a printer with wireless capability and that can generate a maximum size printed document of 11 in. x 17 in. Provide a printer that is Apple AirPrint compatible.
- One pencil sharpener

c. Computer Equipment The items of computer equipment and software to be furnished, installed, tested, made operational and maintained as follows.

Tier I: Small Sized Projects (Contract value < \$10,000,000)

- Three Microsoft Surface Docks with a minimum of the following — 1 Gigabit Ethernet port, 4 US\$ 3.0 ports, 2 Mini Display Ports, and external power supply. Each dock will include a wireless 101 key enhanced keyboards, a wireless optical mouse with scroll wheel, 8x External USB DVD ±RW/CD-RW Drive, two 24-in. (minimum) wide screen flat panel LED Monitor with 1920 x 1080 (minimum) resolution (including any required adapters) and a dual monitor stand. Provide all necessary power cords, internet cables, electrical wires, and surge protectors at the direction of the Engineer.
- The computer equipment, software, and licenses will become the property of the Department at Contract completion. Provide proper maintenance of computers and all office equipment for the life of the Project, which includes but is not limited to network support, computer support, and peripheral support. Provide supplies for the Project for both new and existing equipment that includes but is not limited to flash drives, DVDs, toner, binders, folders, paper, dry erase boards, etc. Provide all supplies with the delivery and set-up of the office equipment and as required by the Engineer. On delivery of computer equipment to a field office, the Engineer must contact the (DoIT) service desk to arrange for Department inventorying. The Engineer must provide the detailed spec of the computer equipment, location of the field office, and the completion date of the Project. The Engineer must also contact the service desk at the end of the Project to take the computer equipment into the DOT State inventory, or the computer equipment must be moved from one location to another.

Tier II: Large Sized Projects (Contract Value ≥ \$10,000,000) (in addition to Tier I)

- Four Microsoft Surface Docks with a minimum of the following — 1 Gigabit Ethernet port, 4 US\$ 3.0 ports, 2 Mini Display Ports, and External power supply. Each dock will include a wireless 101 key enhanced keyboards, a wireless optical mouse with scroll wheel, 8x External USB DVD ±RW/CD-RW Drive, two 24-in. (minimum) wide screen flat panel LED Monitor with 1920 x 1080 (minimum) resolution (including any required adapters) and a dual monitor stand. Provide all necessary power cords, internet cables, electrical wires, and surge protectors at the direction of the Engineer.



# Specifications

- The computer equipment, software, and licenses will become the property of the Department at Contract completion. Provide proper maintenance of computers and all office equipment for the life of the Project, which includes but is not limited to network support, computer support, and peripheral support. Provide supplies for the Project for both new and existing equipment that includes but is not limited to flash drives, DVDs, toner, binders, folders, paper, dry erase boards, etc. Provide all supplies with the delivery and set-up of the office equipment and as required by the Engineer.
- On delivery of computer equipment to a field office, the Engineer must contact the (DoIT) service desk to arrange for Department inventorying. The Engineer must provide the detailed spec of the computer equipment, location of the field office, and the completion date of the Project. The Engineer must also contact the service desk at the end of the Project to take the computer equipment into the DOT State inventory, or the computer equipment must be moved from one location to another. One 50-in. (minimum) conference room monitor with 3840 x 2160 (minimum) resolution with video conferencing camera (minimum 1080P resolution).

Failure to furnish, install, make operational, and maintain the field office equipment and peripheral equipment/accessories specified in this Subsection, will result in delay to the processing of progress payments.

## 929.03.6 Maintenance and Custodial Service.

Provide the following maintenance and custodial services.

- a. Maintenance. Make all necessary repairs of damaged, defective, or vandalized parts of the field office and their associated furnishings and equipment and maintenance operations that continue as long as the field office is occupied by the Engineer
- b. Custodial.
  - Weekly trash removal
  - Bi-weekly floor cleaning
  - Bi-monthly window cleaning
  - Snow plowing, sanding, and removal of snow at parking areas and walks
  - Replacement of supplies as required to maintain office equipment and sanitary facilities

## 929.03.7 Project Sign.

Equip the field office with a sign as detailed in the RIDOT *Standard Details*.



# Specifications

## 929.04 METHOD OF MEASUREMENT.

Field Office will be measured by the number of calendar months the facilities are used under the Contract.

The Computer Equipment as noted in **Subsection 929.03.5(c)** will not be measured separately for payment.

## 929.05 BASIS OF PAYMENT.

The Department will pay for the completed and accepted quantities as follows:

Pay Item	Pay Unit
Field Office	MONTH

The price constitutes full compensation for furnishing, maintaining, and subsequently removing the field office, together with all associated costs of equipment and peripherals and supplies, including all costs associated with electrical utility, heating, lighting, air conditioning, water, sewer and telecommunication connections, permits, identification sign, maintenance, custodial services and supplies, and all incidentals required to provide this service, complete and accepted.

The Department will give the Contractor 90 days advance notice before it intends to terminate the occupancy of the field office.



# Specifications

## SECTION 930 — PLANT FIELD LABORATORY

### 930.01 DESCRIPTION.

This work includes furnishing a building at the site of the production plant for the Department's exclusive use for testing.

### 930.02 GENERAL PLANT FIELD LABORATORY REQUIREMENTS.

#### 930.02.1 Location.

Locate the laboratory within its own building or, if the Engineer permits, it may be part of an existing building. In this case, ensure that the laboratory portions of the building are entirely partitioned off from the remaining unrelated areas and meet all other laboratory requirements. The Department does not permit the use of a trailer, utility control room such as electric, telephone, water, sewage, etc., as a Department designated laboratory and/or office. Ensure that the laboratory is within sight distance of the plant and sampling rack (asphalt only) and maintains an unobstructed line-of-sight at all times.

#### 930.02.2 Construction.

Provide a laboratory building that:

- Has a room at least 200 sq ft with a ceiling height at least 7½ ft
- Provides a sturdy and level floor (note that some equipment requires mounting to a concrete foundation)
- Is watertight
- Has at least two standard windows equipped with shades and screens and two doors equipped with adequate locks
- Has at least one door and window that opens to the outside external environment when the laboratory is located on an external wall

#### 930.02.3 Other Requirements.

- a. Equipment. In case of theft or breakdown, repair or replace all equipment involved within 48 hours. Discontinue the production of any material until the equipment is repaired or replaced. If buildings are destroyed or rendered untenable for any reason, replace them within two weeks. In the interim, provide temporary facilities for laboratory operations.
- b. Utilities. Furnish all water, fuel, and electrical power required to conduct the various tests. Additional laboratory equipment not listed herein may be required to properly facilitate an AASHTO or ASTM test procedure (e.g., water bath thermometers, water bath heater/circulator, timers/stopwatches) and are considered incidental to this item.
- c. Concrete. When both asphalt and cement concrete mixing plants are located in the same compound and when the Contractor provides one laboratory building for both asphalt and cement concrete testing facilities, duplication of laboratory equipment will not be required



# Specifications

with the exception of the chairs, calculator, and the computer equipment specified in **Subsection 930.03.4**.

## **930.02.4 ADA Considerations.**

Ensure that the accommodations comply with Federal Law under Title I of the Americans with Disabilities Act (ADA).

## **930.03 SPECIFIC PLANT FIELD LABORATORY REQUIREMENTS.**

### **930.03.1 Interior Utilities.**

- a. **Power.** Ensure that the electrical power supply is adequate to simultaneously operate all laboratory and office equipment, heating and air conditioning units, lighting, and all other utilities.
- b. **Heating and Air Conditioning.** Provide heating and cooling systems that can maintain the laboratory at a year-round temperature between 68°F and 78°F, with controls in the laboratory.
- c. **Sanitary Facilities.** Provide restroom facilities that include a toilet, lavatory sink, slop sink, vent fan, and running hot and cold water, with a minimum 5-gal capacity water heater tank. Ensure that the restroom is fully equipped and located within the laboratory or existing building and is accessible at all times during production.
- d. **Lighting.** Provide adequate and satisfactory lighting inside the laboratory (10 ft-candles minimum per OSHA Standard 1926.56).
- e. **Telephone.** Provide one handset with an answering machine.

### **930.03.2 Outside Facilities.**

- a. **Parking Area.** Provide a parking area (adequate for two vehicles) adjacent to the building so that safe and easy access to the laboratory building is ensured. Provide parking areas that are paved or well-compacted crushed gravel with maintained surface characteristics.
- b. **Lighting.** Provide adequate outside lighting (5 ft-candles minimum per OSHA Standard 1926.56) for bins, stockpiles, sampling racks, laboratory access, and parking area for all night and early morning work.
- c. **Security.** Ensure that the laboratory building has locking doors and windows.
- d. **Equipment.** Ensure that bins for coarse and fine aggregates are safe and accessible for sampling.

### **930.03.3 Furnishings, Equipment, and Supplies.**

For all of the following, provide new or used items in a condition acceptable to the Engineer (minimum quantities shown):



# Specifications

- One office desk, 30 in. high with minimum 32 in. × 60 in. top dimensions and with two or more drawers on each side
- One worktable or bench
- Two swivel desk chairs
- One fireproof filing cabinet with lock
- A cabinet or closet with lock
- One wastebasket
- A cooling fan
- A hood with an exhaust fan or dust eater for ventilation near the scales
- A copy machine with paper and toner
- A minimum 4.0 cu ft refrigerator
- A microwave oven
- One water cooler and fresh drinking water or a supply of bottled drinking water (to be restocked as necessary)
- Clock
- Calculator
- Electric pencil sharpener
- One first-aid kit, fully stocked
- One fire extinguisher
- Cleaning supplies for lab and lavatory, to be restocked as necessary
- Shop vacuum
- Toilet paper holders, paper towel dispensers, and soap dispensers in the lavatory
- Rugs with non-slip backing for all doors (2 ft × 3 ft minimum size or interior door mats)

#### 930.03.4 Computer Equipment.

Provide the items of computer equipment and software according to [Subsection 929.03.5\(c\)](#), and ensure that the equipment meets the following minimum specifications:

- One computer running activated Windows Professional (latest version) 64-bit
- Intel i3 or AMD Ryzen 3 CPU (minimum)
- 8GB RAM (minimum)
- 240GB SSD (minimum)
- Gigabit Ethernet (minimum)
- Minimum of six USB 2.0 (or faster) ports, two front mounted in case
- Permanent dust shield



# Specifications

- Microsoft Access (latest version) 64 bit installed with full license
- USB Standard 101 key keyboard with dust shield
- USB Optical Mouse with mouse pad
- 22" (minimum) 16:9 widescreen monitor, port compatible with computer, full HD (1920x1080) resolution
- 600 VA (minimum) UPS backup power supply
- Surge protector rated at 1000 Joules (minimum, separate from UPS)
- Color laser printer with full set of cartridges, USB cable and letter-size paper
- Broadband Internet access (10Mb/sec minimum nominal connection speed)

#### 930.03.5 Maintenance and Custodial Service.

Provide the following maintenance and custodial services:

- a. Maintenance. Properly maintain equipment and keep in working condition for all production. Replace supplies as needed to maintain the office, office equipment, and lavatory.
- b. Custodial Services. Provide the following:
  - Weekly trash removal
  - Weekly restroom cleaning
  - Bi-weekly floor cleaning
  - Bi-monthly window cleaning

Although the laboratory is for the exclusive use of the Department during all production, other Quality Control testing may be performed at the facility on a temporary or intermittent basis. Ensure that the laboratory and equipment remain clean and functional if such testing occurs before commencing production for the Department.



## Basic Information

### Summary

The DOT trailer requirements in Vermont are, for the most part, similar to other states. However, one primary difference is that Vermont doesn't specify requirements for different field offices. Instead, their specifications refer to all sizes and layouts of field offices in the state.

You can find more information about their requirements below or by visiting the Vermont Department of Transportation [website](#).

#### VTRAN Contact Page:

<https://vtrans.vermont.gov/contact-us>

#### VTRAN Highway Permits Page:

<https://vtrans.vermont.gov/planning/permitting>

#### Craig Keller, P.E., Chief of Permitting Services:

(802-279-1152)

#### Mailing Address:

Vermont Agency of Transportation  
219 North Main Street  
Barre, VT 05641

# Layouts

Vermont



As mentioned above, Vermont doesn't list any specific requirements for different field office layouts.

However, **all field offices** used in the state of Vermont must have a **minimum floor space of 360 square feet**.



**10' x 44' field office**



# Specifications

**Note:** This section is a reproduction of the current VTRAN requirements for field offices. For more information, consult the Vermont Department of Transportation website.

## SECTION 631 – FIELD OFFICE

**631.01 DESCRIPTION.** This work shall consist of furnishing, erecting, equipping, and maintaining field offices and testing equipment. The work shall include cleaning, supplying utility services, office furniture, equipment, and supplies as required for the exclusive use of the Agency engineering staff at locations approved by the Engineer. Upon completion of the project, the field offices, furniture, accessories, and equipment provided shall remain the property of the Contractor.

The testing equipment and supplies shall be furnished for the use of the Agency during the term of the Contract and shall be subject to use by Agency personnel to conduct tests of any materials at any location as directed by the Engineer. Equipment furnished for testing of protective coatings will be used by the Engineer as required by the Contract.

### 631.02 FIELD OFFICES.

(a) **General Requirements.** Field offices shall be available solely to the representatives of the state and the federal government throughout the duration of use and shall be removed when released by the Engineer. Field offices and equipment shall always be cleaned, disinfected, and maintained in working condition to the satisfaction of the Engineer, including adequate supplies.

Field offices shall not be located within any Operating Railroad right-of-way.

All field offices shall meet the following requirements:

- (1) **Foundation.** Field offices shall be constructed on a firm foundation that will remain vibration free and that will not be adversely affected by frost action or water runoff.
- (2) **Design.** Field offices shall be a commercial-type field office trailer of standard commercial quality, or a building, in good condition as determined by the Engineer, with a minimum width of 10 feet. They shall have a minimum of two means of egress equipped with dead bolt locks and a minimum 4 foot  $\times$  4 foot deck with steps and railings in accordance with the VOSHA *Safety and Health Regulations for Construction*.

The Contractor shall provide the Engineer with three sets of keys. The Contractor shall not access the field office without approval of the Engineer.



# Specifications

Commercial-type field office trailers shall have a minimum of four side windows, one front window, and one rear window. Standard buildings shall have sufficient windows to the satisfaction of the Engineer. All windows shall be glassed and screened with provisions for opening and locking and shall be equipped with adjustable louvered blinds.

Field offices shall have a lighting system capable of providing a minimum of 50 foot-candles on all work surfaces and shall have an exterior security light satisfactory to the Engineer.

(3) **Electrical Service.** Field offices shall be equipped with a 120 volt AC, 60 Hz, single-phase electrical system with service entrance equipment suitable for power company attachment and with at least 12 properly positioned interior electrical duplex outlets. The materials and installation methods of all electrical wiring, connections, switches, and grounds shall conform to the provisions of the *National Electrical Code* and shall be in accordance with all state and local electrical ordinances.

The Contractor shall be responsible for arranging the connection of the electrical service to the field office.

(4) **Communications Services.** Field Offices shall have independent telephone and internet services such that both can be used simultaneously without impacting functionality. The Contractor shall provide the Engineer with a list of all internet services available at the proposed field office location and the Engineer will select the service to be provided. In all cases, internet service shall have a minimum download speed of 4 Mbps and a minimum upload speed of 1 Mbps. The specified internet speeds shall be achieved without using compression algorithms. Jacks for connection to internet and telephone services shall be located at each end of the field office for both services.

When telephone or internet service is not practical, as determined by the Engineer, services may be omitted from the field office.

The Contractor shall be responsible for establishing all connections for communications services and maintaining communications services throughout the duration the field office is in use.

(5) **Heating and Cooling Systems.** Field offices shall have heating and cooling systems capable of maintaining a temperature of 68°F at all times. Field offices shall have thermostats capable of controlling and displaying the interior temperature.

# Specifications



The heating and cooling systems shall be fitted with high efficiency particulate air (HEPA) filters meeting the requirements of [DOE-STD-3020](#). New HEPA filters shall be installed upon initial erection of the field office. All HEPA filters shall be replaced with new filters every 12 months, or when airflow through the filter becomes restricted, or as recommended by the manufacturer, whichever is more frequent.

(6) **Sanitary Facilities and Cleaning Supplies.** Sanitary facilities consisting of a flush toilet, chemical toilet, or other approved type, shall be furnished by the Contractor, with proper sewage disposal as is necessary to comply with the requirements and regulations of the state and local Boards of Health and VOSHA. Sanitary facilities shall be cleaned and disinfected regularly, in accordance with current CDC guidance. The frequency of cleaning shall be as outlined in the CDC guidance, or as directed by the Engineer. The degree of cleanliness shall be approved by the Engineer. Sanitary facilities shall be provided with either hot, running, potable water, and soap, or an alcohol-based hand sanitizer containing at least 70% alcohol by volume, for use in washing hands.

A potable water system consisting of a sink with a faucet within the office, with a continuous supply of pressurized clean potable water, shall be supplied for the duration of the project. When clean potable water is not available, a commercial bottled drinking water system shall be installed in the field office complete with necessary disposable drinking cups (8 oz. size or larger) and cup dispenser. The system shall supply both hot and cold water. The system and the bottled water shall be furnished by a commercial water service on a regular basis agreeable to the Engineer for the duration of the Contract.

The Contractor shall supply the field office with hand sanitizer to be used for washing hands, and with a disinfectant for use in disinfecting surfaces. The hand sanitizer shall be alcohol based and shall contain at least 70% alcohol by volume. The disinfectant shall be one of the products identified on [EPA List N: Disinfectants for Coronavirus \(COVID-19\)](#) and shall have a contact time of 5 minutes or less, as specified on the list. If the disinfectant supplied is of the liquid or spray-on type, the Contractor shall also supply the field office with disposable paper towels for use in applying the disinfectant.

(7) **Office Equipment.** All field offices shall contain the following standard commercial-quality office equipment, with substitutions allowed upon approval of the Engineer:

- 1 Standard office desk a minimum of 60 inches wide x 30 inches deep and with drawers, locks, and keys



# Specifications

- 1 Ergonomic office chair with adjustable lumbar support, adjustable height, and rolling casters
- 1 Secure, four-drawer, legal-size file cabinet, fire-resistant (rated to withstand a one-hour fire) with lock and two keys
- 1 Telephone with touch tone dial, compatible with the local telephone service available, and capable of receiving and storing messages
- 2 30-gallon trash cans with trash bags
- 1 Electric clock having a dial face at least 8 inches in diameter
- 1 First aid kit conforming to *ANSI/ISEA Z308.1*
- 1 5-pound dry chemical fire extinguisher, with a UL rating of 3A:40B:C or better, or as needed in accordance with OSHA requirements
- 1 Outdoor thermometer, weatherproof, easy to read, and having a minimum scale range of -40°F to 120°F in graduations of 2°F

Field offices shall be provided with ventilation and gas connections as required.

The Contractor shall furnish all labor and materials for winterizing field offices.

(b) Field Office, Engineer's. The field office shall be available for use 7 calendar days prior to any work commencing, including erection of construction approach signing, until 30 calendar days after final inspection of the project, unless otherwise directed by the Engineer.

In addition to [Subsection 631.02\(a\)](#), the field office shall meet the following requirements:

- (1) Size. The field office shall have a minimum floor space of 360 square feet.
- (2) Office Equipment. The field office shall contain the following standard commercial quality office equipment, with substitutions allowed upon approval of the Engineer:
  - 1 Rain gauge
  - 2 Standard office desks a minimum of 60 inches wide × 30 inches deep and with drawers, locks, and keys



# Specifications

631

- 2 Ergonomic office chairs with adjustable lumbar support, adjustable height, and rolling casters
- 1 Storage cabinet a minimum of 36 inches wide × 24 inches deep × 24 inches high
- 1 Storage locker or closet of sufficient size for secure storage of surveying equipment
- 1 Printer/scanner/copier combination unit, color when deemed necessary by the Engineer, with a minimum tray capacity of 50 sheets and a minimum print speed of 10 sheets per minute. The combination unit shall be capable of handling 11 inch × 17-inch sheets. The combination unit shall be compatible with Microsoft Windows 10 and later versions and shall have wired and wireless network capabilities.

The printer/scanner/copier combination unit shall have a stand of sufficient size and strength to support the unit. Supplies for the printer/scanner/copier shall include 8-1/2 inch × 11-inch paper, 11 inch × 17-inch paper, and ink or toner in black and color as applicable.

- 1 Microwave with a minimum capacity of 1 cubic foot
- 1 Refrigerator with a minimum capacity of 4 cubic feet

All furnished equipment shall be maintained in good working order. Replacement equipment shall be provided within 48 hours for all equipment that is damaged, stolen, or becomes inoperative in any way.

The Contractor shall provide training to the Engineer in the use of the furnished equipment.

(c) Field Office, Soils and Materials. The field office shall be available for use from the day the Contractor commences any work requiring the testing of soils and materials until 30 calendar days after acceptance of the project, or upon release by the Engineer.

In addition to Subsection 631.02(a), the field office shall meet the following requirements:

- (1) Size. The field office shall have a minimum floor space of 240 square feet.
- (2) Office Equipment. The field office shall contain the following standard commercial quality office equipment with substitutions allowed upon approval of the Engineer.
  - 1 Bench top cabinet, approximately 36 inches high and 24 inches wide with a minimum bench area of 32 square feet and a minimum storage area of 32 square feet using a suitable combination of fully enclosed shelf space and drawers



# Specifications

- 1 Sink with gooseneck faucet located within the office, with a continuous supply of pressurized, clean, potable water for the duration of the project

- 2 Adjustable height drafting stools

(3) **Testing Equipment and Supplies.** At a minimum, the field office shall contain the following testing equipment and supplies, with substitutions allowed upon approval of the Engineer.

- 1 Balance scale with a 20-pound minimum capacity, accurate to 0.2 ounces

- 1 Scale with a 2-pound minimum capacity, accurate to 0.004 ounces

- 1 Double-burner electric hot plate with variable temperature controls

- 1 Electric motorized sieve shaker, with either rocking and tapping action or circular and tapping action, with a capacity of at least six sieves, cover, and 8-inch diameter pan, confined in a dust-retaining enclosure

- 1 Set of U.S. Standard Sieves, brass, 8-inch diameter, full height, woven wire, meeting the requirements of *ASTM E11*. The required sieves are as follows:

1 4 inch (100.0 mm)	1 3-1/2 inch (90.0 mm)
1 3 inch (75.0 mm)	1 2-1/2 inch (63.0 mm)
1 2 inch (50.0 mm)	1 1-3/4 inch (43.0 mm)
1 1-1/2 inch (37.5 mm)	1 1 inch (25.0 mm)
1 3/4 inch (19.0 mm)	1 5/8 inch (16.0 mm)
1 1/2 inch (12.5 mm)	1 3/8 inch (9.50 mm)
2 No. 4 (4.75 mm)	2 No. 8 (2.36 mm)
2 No. 10 (2.00 mm)	2 No. 16 (1.18 mm)
2 No. 30 (0.600 mm)	2 No. 40 (0.425 mm)
2 No. 50 (0.300 mm)	2 No. 100 (0.150 mm)
4 No. 200 (0.075 mm)	3 8-inch sieve pans
3 8-inch sieve covers	



# Specifications

(4) Additional Equipment. Additional equipment and supplies shall include the following items:

- 2 Pairs of safety gloves, 14 inches in length and capable of withstanding temperatures up to 1,110°F
- 1 Brush, brass (wire bristle)
- 1 Broom, standard floor type
- 1 Shovel, round-pointed with D-handle
- 1 Shovel, square-pointed with D-handle
- 2 Heavy canvas sheets, 4 feet long × 2-1/2 feet wide, for quartering samples
- 10 Aluminum moisture cans, 3-1/2 inches in diameter × 2 inches deep
- 2 Paint brushes, soft bristle, 2 inch
- 4 Table brushes, 2 inches × 8 inches
- 1 Mason's trowel, pointed, 8 inch
- 4 Plastic dish pans, 14 inches long × 12 inches wide × 5 inches deep
- 8 Cake pans, 9 inches long × 9 inches wide × 2 inches deep
- 1 Grain scoop, 6 inch
- 1 Spatula with 10 inch × 1-1/8 inch blade
- 2 Mixing spoons, heavy duty plated steel, 12 inches long
- 4 Microwaveable pans a minimum of 8 inches long × 8 inches wide × 2 inches deep
- 1 Compaction mold, 4 inches in diameter and meeting the requirements of *AASHTO T 99*
- 1 Rammer, 5-1/2 pounds in weight and meeting the requirements of *AASHTO T 99*



# Specifications

- 1 Straightedge, steel and meeting the requirements of *AASHTO T 99*
- 1 Density apparatus consisting of a sand cone and baseplate and meeting the requirements of *AASHTO T 191*
- 2 One-gallon mason jugs with standard "G" mason jar top threading with covers
- 1 Carrying box, cushioned, for the two one-gallon mason jugs
- 2 One-gallon metal cans with moisture-proof friction covers and handles (similar to paint cans)
- 1 Two-pound rubber mallet with 10-inch handle
- 1 Storage box to of adequate size to contain the compaction testing equipment

A microwave oven with a minimum rating of 500 watts, a digital display of power level and time, and a minimum of ten adjustable power levels. The microwave shall have a minimum internal volume of approximately 0.7 cubic feet. The interior dimensions shall be approximately 11 inches long x 11 inches wide with an acceptable height. The interior dimensions shall be of adequate size to accept the microwaveable pans listed in this subsection.

Standard Ottawa sand meeting the requirements of *ASTM C778, Section 3.1* shall be supplied in the amount of approximately 100 pounds of sand for every 50,000 cubic yards of embankment.

When compaction testing in accordance with *AASHTO T 180* is required, the Contractor shall also supply one 10 pound rammer meeting the requirements of *AASHTO T 180*.

All the foregoing testing equipment shall be in good condition and shall be replaced or repaired by the Contractor if, during the duration of the project, it becomes unsuitable for testing purposes. All calibration records shall be available to the Engineer.

Equipment provided for concrete testing, bituminous testing, or grout testing, when such equipment is also in the Contract, will not be considered common to the testing equipment for the soils and materials field office and shall not be used as such.

# West Virginia



## Basic Information

### Summary

West Virginia currently has no specific DOT requirements for highway construction projects.

However, if you wish to contact the West Virginia Department of Transportation, you can find more information from [their website](http://transportation.wv.gov/Pages/contact.aspx).

#### Contact Page:

[https://transportation.wv.gov/Pages/contact.aspx](http://transportation.wv.gov/Pages/contact.aspx)

#### Email:

[dot.info@wv.gov](mailto:dot.info@wv.gov)

#### WVDOT Phone Number:

(800) 642-9292 or  
(833) WV ROADS (833-987-6237)

#### Mailing Address:

West Virginia Department of Transportation  
Building 5  
1900 Kanawha Blvd E  
Charleston, WV 25305

# Layouts



While West Virginia doesn't have a size requirement, we've found that in other states the 12' x 64' field office meets the most common layout requirements.



**12' x 64' field office**

# New Jersey



## Basic Information

### Summary

Like Pennsylvania, New Jersey, has some of the most complex specifications and requirements for DOT trailers and field offices. In fact, they also include specifications for field laboratories and curing facilities.

You can find more information about their requirements below or by visiting the New Jersey Department of Transportation [website](https://www.nj.gov/transportation/contact/).

#### Contact Page:

<https://www.nj.gov/transportation/contact/>

#### Email:

[CSPD@dot.nj.gov](mailto:CSPD@dot.nj.gov)

**Bureau of Construction Services Phone Number:**  
(609) 963-2312

#### Mailing Address:

Bureau of Construction Services  
1035 Parkway Avenue  
P.O. Box 600  
Trenton, NJ 08625

# Layouts

New Jersey



The state of New Jersey splits its field office designations into eight layouts.

- Type A
- Type B
- Type C
- Type E
- Type F
- Materials Field Laboratory
- Curing Facility

## Type A

The Type A field office in New Jersey is the smallest, with a minimum floor space of **288 square feet**. Additionally, it must have room for **one desk and one table with eight seats**.



10' x 36' field office



## Type B

The Type B field office in New Jersey has a minimum floor space of **482 square feet**. It also must have **two individual partitioned rooms**.



**12' x 64' field office**

## Type C

The Type C field office in New Jersey has a minimum floor space of **626 square feet**. It also must have **three individual partitioned rooms**.



**12' x 64' field office**



## Type D

The Type D field office in New Jersey has a minimum floor space of **720 square feet**. It also must have **four individually partitioned rooms**.



**12' x 64' field office**

## Type E

The Type E field office in New Jersey has a minimum floor space of **864 square feet**. It also must have **four individual partitioned rooms and room to seat twenty-four**.



**24' x 64' field office**



## Type F

The Type F field office in New Jersey has a minimum floor space of **1008 square feet**. It also must have **five individual partitioned rooms**.



36' x 64' field office



## Materials Field Laboratory

New Jersey's Materials Field Laboratory designation must have a minimum floor space of **1050 square feet**. **Room One** is 450 square feet, and **Room Two** is 600 square feet with a concrete floor. The 10' x 50' mobile office meets the **Room One** space requirements.



**10' x 50' field office**

## Curing Facility

The Curing Facility designation in New Jersey must have a minimum floor space of **300 square feet and requires a concrete floor**.

Because of this specification a mobile office would not meet this requirement.



# Specifications

**Note:** This section is a reproduction of the current NJ DOT requirements for field offices. For more information, consult the New Jersey Department of Transportation website.

## SECTION 155 – CONSTRUCTION FIELD OFFICE

### 155.01 DESCRIPTION

This Section describes the requirements for set up and maintenance of the Department's construction field office.



# Specifications

## 155.02 MATERIALS

(Intentionally Blank)

## 155.03 PROCEDURE

### 155.03.01 Field Office

Provide and maintain a safe and secure field office for the exclusive use of the Department, until no longer required by the Department, at a location within or in the immediate vicinity of the Project Limits and approved by the RE. Do not lock out, or make the Field Office inaccessible to, the RE or any Department employees, consultants, or representatives at any time. Do not use any building scheduled for demolition under the Contract as a field office. If the field office is a temporary structure within State ROW, secure necessary permits from the New Jersey Department of Community Affairs, and remove the structure when directed by the RE.

Ensure that the field office is weatherproof with a minimum ceiling height of 7 1/2 feet and conforms to the requirements specified in [Table 155.03.01-1](#). Ensure that 1 of the rooms of the field office has a minimum area of 288 square feet. Ensure that the other rooms have a minimum area of 144 square feet, except for conference rooms, which require a minimum area of 288 square feet. Ensure that the field office doors and windows have locks. Provide the keys to the RE. Ensure that the field office has one or more closets of sufficient capacity for the office's size.

1. **Office Size Requirements.** Provide the following, at a minimum, for the field office type specified:

Table 155.03.01-1 Office Size Requirements

Description	Field Office Type					
	A	B	C	D	E	F
Total Area (SF)	288	482	626	720	864	1008
Number of Rooms <sup>1</sup>	1	2	3	4	4	5
Conference Room	0	0	0	0	1	1
Desks with Swivel Chairs	2	4	6	8	8	10
Tables and chairs to seat	8	12	16	20	24	28
File Cabinets <sup>2</sup>	2	4	4	4	4	8
Plan Racks <sup>3</sup>	1	2	2	3	3	4
Parking spaces <sup>4</sup>	4	5	6	8	8	10

1. Including conference room.
2. Having a UL rating of 350 °F – 1 hour, 4 drawers, legal-size with lock and 2 keys.
3. Capable of holding 1,200 plan sheets.
4. Free parking on a paved or hard surfaced area adjacent to the building.

2. **Utilities and Lighting.** Provide all utility services and connections including water, sewer, gas, electricity, telephone, and broadband internet. Provide a separate telephone line for each telephone, computer modem, and fax machine specified in [155.03.01.4](#). Provide a field office with sufficient natural and artificial light. Provide adequate insulation, heat, and air-conditioning to maintain an ambient temperature of 68 to 80 °F.
3. **Lavatory.** Provide a separately enclosed and properly ventilated room with washing and toilet facilities suitable for use by male and female employees. Ensure that the facilities have hot and cold running water. Equip the doors and windows with locks.
4. **Communication Equipment.** Provide the following communication systems:
  - a. **Telephones.** Provide a phone system as specified in the Special Provisions. Ensure that each phone is connected to the answering system.
  - b. **Fax Machine.** Provide a fax machine with built-in telephone, auto-dial, auto-re-dial, and auto-receive, and out-of-paper reception features.
  - c. **Cell Phones.** Provide cell phones as specified in the Special Provisions.
  - d. **Computer System.** Provide a computer system as specified in the Special Provisions.



# Specifications

Do not procure the computer system until reviewing the system requirements with the RE. Ensure that the computer system is compatible with the Department's construction management software and other specified software.

When the computer system is no longer required by the RE, the Department will remove and retain the hard drive, and return the computer system to the Contractor. The Department will retain other data storage media.

5. **Office Furnishings.** Provide the following:
  - a. Two book cases.
  - b. A drafting table and stool.
  - c. A supply cabinet.
  - d. A water cooler having both hot and cold water dispensers, and bottled water service.
  - e. A type ABC fire extinguisher having UL-approval.
  - f. A 24 person first-aid kit according to ANSI Z308.1, 1 tick removal tweezers, and 4 aerosol cans of insect repellent containing DEET. Restock first aid supplies and insect repellent as needed.
  - g. A wastepaper basket for each room.
  - h. Two 3 x 4 foot bulletin boards.
  - i. A 1.7 cubic foot refrigerator.
6. **Office Equipment.** Provide the following:
  - a. A copier with automatic document feed, 15 pages per minute copy speed, variable reduce/enlarge capability, and letter, legal, and ledger size capabilities. Erase the copier hard drive before removing the copier from the field office and provide the RE with a certification stating that the copier hard drive has been erased.
  - b. A digital camera as specified in the Special Provisions.
  - c. A video camcorder as specified in the Special Provisions.
  - d. A printing adding machine.
  - e. A paper shredder with a minimum throat of 8.75 inches, and a feed capacity of at least 10 sheets.
7. **Inspection Equipment.** Provide as specified in the Special Provisions.

## 155.03.02 Field Office Maintenance

Maintain the field office including furnishings, equipment, lavatories including toiletries, and utilities until no longer required by the Department. Provide services for utilities specified in [155.03.01.2](#). Provide for utility disconnection when the field office is no longer required by the RE. Assume that the field office will be required for a minimum of 3 months after Completion. Provide weekly janitorial and waste disposal service, and snow removal service as needed. Provide 1 case of letter, legal, and ledger sized paper every 2 months.

Repair or replace inoperable or defective communication, office, and inspection equipment within 24 hours. The Contractor is not responsible for replacing or repairing items that are lost or damaged due to misuse.

## 155.04 MEASUREMENT AND PAYMENT

The Department will measure and make payment for items as follows:

<i>Item</i>	<i>Pay Unit</i>
FIELD OFFICE TYPE <u>  </u> SET UP	UNIT
FIELD OFFICE TYPE <u>  </u> MAINTENANCE	MONTH

The Department will make payment for FIELD OFFICE TYPE    MAINTENANCE for each month or portion of a month that the field office is required, except that the Department will not make payment for any month or fraction of a month that the Contractor is assessed liquidated damages as specified in [108.20](#).



# Specifications

## SECTION 156 – MATERIALS FIELD LABORATORY AND CURING FACILITY

### 156.01 DESCRIPTION

This Section describes the requirements for set up and maintenance of the Department's materials field laboratory and curing facility.

### 156.02 MATERIALS

(Intentionally Blank)

### 156.03 PROCEDURE

#### 156.03.01 Materials Field Laboratory

Do not provide or procure the materials field laboratory or associated equipment until the RE notifies that this item is required.

Within 15 days of RE notification, provide and maintain a materials field laboratory for the exclusive use of the Department, until no longer required by the Department, at a location approved by the ME. Do not lock out, or make the Materials Field Laboratory inaccessible to, the RE or any Department employees, consultants, or representatives at any time. Do not use buildings scheduled for demolition under the Contract as a materials field laboratory. The ME will not conduct testing until the materials field laboratory is ready for use.

If the field laboratory is a temporary structure within State ROW, secure the necessary permits from the New Jersey Department of Community Affairs, and remove the structure as directed by the RE.

Provide a Uniform Code Type Four Fire Permit according to the New Jersey Department of Community Affairs regulations. The Contractor may obtain information concerning the permit fees and the permit application process from the Department's Bureau of Materials.

Ensure that the materials field laboratory is weatherproof with a minimum ceiling height of 7 1/2 feet. Ensure that one of the rooms has a minimum area of 450 square feet. Ensure that there is an additional room or enclosure with a concrete floor with a minimum area of 600 square feet. Ensure that each room has at least four 3 prong electrical outlets, having a minimum of two 20 ampere, 120 volt circuits.

Ensure that the materials laboratory doors and windows have locks, and provide the keys to the ME. Ensure that the materials field laboratory has one or more closets of sufficient capacity for the office's size. Provide the following for the materials field laboratory:

1. **Utilities and Lighting.** Provide all utility services and connections including water, sewer, gas, electricity, telephone, and broadband internet. Provide a separate telephone line for each telephone, computer modem, and fax machine specified in [156.03.01.4](#). Provide a field office with sufficient natural and artificial light. Provide adequate insulation, heat, and air-conditioning to maintain an ambient temperature of 68 to 80 °F.
2. **Lavatory.** Provide a lavatory as specified in [155.03.01.3](#).
3. **Parking.** Provide 6 free parking spaces on a paved or hard surfaced area adjacent to the materials field laboratory.
4. **Communication Equipment.** Provide the following communication systems:
  - a. **Telephones.** Provide 2 cordless phones with auto-switching.
  - b. **Fax Machine.** Provide 1 fax machine with built-in telephone, auto-dial, auto-re-dial, and auto-receive, and out-of-paper reception features.
  - c. **Cell Phones.** Provide cell phones as specified in the Special Provisions.
  - d. **Computer System.** Provide a computer system as specified in the Special Provisions.

Do not procure the computer system until reviewing the system requirements with the ME. Ensure that the computer system is compatible with the Department's construction management software and other specified software.



# Specifications

When the computer system is no longer required by the ME, the Department will remove and retain the hard drive, and return the computer system to the Contractor. The Department will retain other data storage media.

5. **Office Furnishings.** Provide furnishings, as specified in [155.03.01.5](#), and the following:
  - a. Four desks with 4 desk chairs and 4 chairs.
  - b. A work bench having a minimum area of  $2\frac{1}{2} \times 10$  feet, and 2 stools.
  - c. Shelving having a minimum area of 45 square feet.
6. **Office Equipment.** Provide the following:
  - a. A copier with automatic document feed, 15 pages per minute copy speed, variable reduce/enlarge capability, and letter, legal, and ledger size capabilities. Erase the copier hard drive before removing the copier from the field office and provide the RE with a certification stating that the copier hard drive has been erased.
  - b. A printing calculator, with trigonometric function capability.
  - c. A paper shredder with a minimum throat of 8.75 inches, and a minimum feed capacity of 10 sheets.
7. **Laboratory Equipment.** Provide the following:
  - a. **Primary Laboratory Room.** Equip the primary laboratory room with the following:
    1. A 12 inch diameter exhaust fan or alternative means for venting heat, dust, and fumes.
    2. Two gas stoves, each having at least 2 burners.
    3. Either commercially bottled gas service or gas supplied by a Utility with at least 2 connections to be located as directed by the ME.
    4. A sink with hot and cold running water, having adequate pressure, and equipped with 2 drain boards, and a drain-disposal system (silt trap or similar) capable of handling elutriable material.
    5. A metal stand to hold sieves used in washing elutriable material.
    6. Two wheelbarrows.
    7. A light duty oil-less air compressor listed by UL with a 2.5 gallon storage tank, a start/stop switch –94 pounds per square inch over 125 pounds per square inch, a 115 volt universal motor, an ASME safety valve, and a 25 foot air hose, equipped with a quick-change blow gun kit and nozzle kit consisting of a high-flow safety nozzle, a 6 inch extension safety nozzle, a rubber tip nozzle, a needle tip nozzle, and an air screen safety nozzle.
    8. An exhaust vent hood enclosed on 3 sides, top, and bottom, of such size to enclose the operations of drying and weighing a recycled concrete aggregate sample, and other operations in which a vapor or gas is emitted. Design and construct the hood so that any operation involving testing within the hood does not require the insertion of any portion of the tester's body, other than hands and arms. Ensure that the exhaust system is capable of producing an air speed of 80 to 120 feet per minute at the face of the opening.
    9. Shovels and scoops for sampling soil aggregate and concrete.
    10. Provide a nomograph. Supply the instruments necessary to measure air temperature, relative humidity, and wind speed, including 2 battery operated psychrometers, 2 concrete thermometers, and 2 wind gauges. Obtain certification from an independent, ME-approved laboratory that all instruments are in good working order and have been calibrated as requested by the ME.
  - b. **Additional Room or Enclosure.** Equip the additional room or enclosure with the following:
    1. Two 12 inch diameter exhaust fans or alternative means for venting heat, dust, and fumes.
    2. A 7 day spring-driven temperature recording device capable of producing a permanent record of the room temperature, with a supply of recording charts and pens.
    3. Install a concrete block weighing a minimum of 200 pounds and measuring approximately  $10 \times 10 \times 24$  inches with a  $10 \times 10 \times 1$  inch steel plate fastened to the top. Install the block on a firm foundation at a location directed by the ME.
    4. Two sound-dampened and dustproof cabinets constructed of at least 3/4 inch plywood or other suitable material and of sufficient size to house the mechanical sample shaker and the mechanical sieve shaker.



# Specifications

5. A separate cabinet for the purpose of housing and storing a nuclear density gauge. Ensure that the cabinet is constructed of 3/4 inch plywood or particle board and lead sheathing, or any other acceptable materials, to ensure that a radiation reading of no higher than 2 nanorads per hour is obtained by contact measurement of the outside wall of the storage cabinet. This second cabinet must be securable and have a door equipped with a heavy-duty lock with 2 keys provided. Before this cabinet is constructed, obtain approval from the ME of the exact location, materials to be used for its construction, and locking system.
6. Water tanks capable of storing three hundred 4 × 8 inch concrete cylinders fully submerged and in an upright position. Provide a 5/8 inch water hose at least 50 feet in length. Equip the water tank with a heater capable of maintaining a water temperature of  $73 \pm 3$  °F.
8. **Laboratory Testing Equipment.** Provide testing equipment and apparatus conforming to that listed in AASHTO R 60, T 11 (including a mechanical washing machine), T 23, T 27, T 99, T 119, T 121, T 152, T 248, and T 309. Provide 4 units or the number specified by the ME, of the testing apparatus to satisfy the inspection and testing frequency anticipated. In addition, ensure that scales are electronic, except for those required for AASHTO T 121. Ensure that scales are inspected and certified by an independent scale company accredited according to the International Organization of Standards/International Electrotechnical Commission 17025, or a State or county Office of Weights and Measures. Provide the ME with a copy of the certification at the time of installation. Ensure that the scales are re-certified annually, or every 6 months if directed by the ME.
9. **Inspection Equipment.** Provide as specified in the Special Provisions.

## 156.03.02 Materials Field Laboratory Maintenance

Maintain the materials field laboratory including furnishings, equipment, lavatories including toiletries, and utilities until no longer required by the Department. Provide services for the utilities specified in [156.03.01.1](#). Provide for utility disconnection when the field office is no longer required by the ME. Provide weekly janitorial and waste disposal service, and snow removal service as needed. Provide 1 case of letter, legal, and ledger sized paper every 2 months.

Repair or replace inoperable or defective communication equipment, office furnishings, office equipment, laboratory equipment, and laboratory testing equipment within 24 hours. The Contractor is not responsible for cost of replacing or repairing items that are lost or damaged due to misuse.

## 156.03.03 Curing Facility

Do not provide or procure the curing facility or associated equipment until the RE notifies that this item is required.

Within 15 days of RE notification, provide and maintain a curing facility for the exclusive use of the Department, until no longer required by the Department, at a location approved by the ME. Do not lock out, or make the Curing Facility inaccessible to, the RE or any Department employees, consultants, or representatives at any time. Do not use buildings scheduled for demolition under the Contract as a materials field laboratory. The ME will not conduct testing until the curing facility is ready for use.

Maintain the curing facility until no longer required by the ME. Assume that the curing facility will be required for a minimum of 1 month after Completion. If the curing facility is a temporary structure, secure the necessary permits from the New Jersey Department of Community Affairs, and remove the structure as directed by the RE.

Ensure that the curing facility is weatherproof with a minimum ceiling height of 7 1/2 feet. Ensure that the curing facility has a concrete floor and a minimum area of 300 square feet. The room shall have a minimum of three 3 prong electrical outlets.

Ensure that the curing facility doors and windows have locks, and provide all keys to the ME. Provide the following for the curing facility:

1. **Utilities and Lighting.** Provide all utility services and connections including water, sewer, gas, and electricity. Provide a curing facility with sufficient natural and artificial light. Provide adequate insulation, heat, and air-conditioning to maintain an ambient temperature of 68 to 80 °F.
2. **Furnishings.** Provide the following:
  - a. One work bench having a minimum area of 2 1/2 × 10 feet, and 2 stools.
  - b. One type ABC, fire extinguisher having UL approval.



# Specifications

**3. Equipment.** Provide the following:

- One sink with hot and cold running water.
- One wheelbarrow.
- One light duty oil-less air compressor listed by UL with a 2.5 gallon storage tank, a start/stop switch –94 pounds per square inch over 125 pounds per square inch, a 115 volt universal motor, an ASME safety valve, and a 25 foot air hose, equipped with a Quick-Change Blow Gun Kit and Nozzle Kit consisting of a high-flow safety nozzle, a 6 inch extension safety nozzle, a rubber tip nozzle, a needle tip nozzle, and an air screen safety nozzle.
- One 7 day spring-driven temperature recording device capable of producing a permanent record of the room temperature.
- Two 12 inch diameter exhaust fan or alternative means for venting heat, dust, and fumes.
- Water tanks capable of storing 300, 4 x 8 inch concrete cylinders fully submerged and in an upright position. Provide a 5/8 inch water hose at least 50 feet in length. Equip the water tank with a heater capable of maintaining a water temperature of  $73 \pm 3$  °F.

**156.03.04 Curing Facility Maintenance**

Maintain the curing facility including furnishings and curing facility equipment for the duration of the Contract or until no longer required by the ME. Provide services for utilities specified in [156.03.03.1](#). Provide for utility disconnection when the curing facility is no longer required by the ME. Provide weekly janitorial and waste disposal service and snow removal service as needed.

Repair or replace inoperable or defective furnishings and curing facility equipment within 24 hours. The Contractor is not responsible for cost of replacing or repairing items that are lost or damaged due to misuse.

**156.03.05 Nuclear Density Gauge**

Provide for the Department's exclusive use and for the duration of the Project a nuclear density gauge calibrated to the manufacturer's specifications, with the following minimum features and capabilities:

- Conformance to AASHTO T 310.
- Backscatter and direct transmission modes.
- 8 inch minimum length of probe.
- Automatic warm-up and self-test.
- Automatic data storage and data transfer features, including an RS232 interface cable, specifically configured to transfer data from the density gauge to the microcomputer system and with data communication software.
- Count times of 0.25, 1.0, and 4.0 minutes.
- 0.25 pounds per cubic foot dry density precision in direct transmission at 120 pounds per cubic foot and at 1.0 minute, with  $\pm 0.3$  percent accuracy.
- 0.32 pounds per cubic foot moisture precision at 1.0 minute, with  $\pm 2.0$  percent accuracy.
- Type A certified package.

Provide a nuclear density gauge for the exclusive use of the ME using one of the following methods:

- Purchase a nuclear density gauge under the Contractor's New Jersey Department of Environmental Protection (NJDEP) License or the Contractors United States Nuclear Regulatory Commission (USNRC) license.
- Lease a nuclear density gauge from a New Jersey Department of Environmental Protection (NJDEP) or United States Nuclear Regulatory Commission (USNRC) licensed third party on the Department's New Jersey Department of Environmental Protection (NJDEP) License.

The Contractor is barred from purchasing gauges on the Department's New Jersey Department of Environmental Protection (NJDEP) license. Perform calibration and servicing of the gauge, other than routine wipe tests, every 24 months. The ME may direct additional calibrations, when necessary. Supply a replacement gauge for the Department's use during the calibration and servicing period.

**156.03.06 Flexural Beam Testing Equipment**

Provide the following testing equipment and apparatus:

- A Flexural Beam Tester according to AASHTO T 97.



# Specifications

2. Twelve 6 x 6 x 21 inch reusable steel beam molds with handles according to AASHTO T 23.
3. Leaf type feeler gauges and carpenter's square.
4. Calipers capable of measuring inside and outside dimensions ranging from 0 to 300 millimeters in maximal calibrations of 0.25 millimeters.
5. A hand-held 180 millimeter Heavy-Duty Angle Grinder (120V, 15A, 6000 rpm) with an initial supply of 3 masonry grinding wheels. Provide additional grinding wheels within 48 hours of request.

Maintain and calibrate the testing equipment annually.

#### 156.03.07 Concrete Compression Testing Equipment

Provide a Concrete Compression Tester according to AASHTO T 22. Ensure the testing equipment is maintained and calibrated annually.

#### 156.04 MEASUREMENT AND PAYMENT

The Department will measure and make payment for Items as follows:

<i>Item</i>	<i>Pay Unit</i>
MATERIALS FIELD LABORATORY SET-UP	UNIT
MATERIALS FIELD LABORATORY MAINTENANCE	MONTH
CURING FACILITY SET-UP	UNIT
CURING FACILITY MAINTENANCE	MONTH
NUCLEAR DENSITY GAUGE	UNIT
FLEXURAL BEAM TESTING EQUIPMENT	UNIT
CONCRETE COMPRESSION TESTING EQUIPMENT	UNIT

The Department will include the installation of telephone and cellular phone services in the MATERIALS FIELD LABORATORY SET-UP.

The Department will make payment for maintenance of the materials field laboratory for each month or portion of a month it is required, except that the Department will not make payment for any month or fraction of a month that the Contractor is assessed liquidated damages as specified in [108.20](#). The Department will include the monthly fixed charges for telephones and cellular phones in MATERIALS FIELD LABORATORY MAINTENANCE.

The Department will make payment for CURING FACILITY MAINTENANCE for each month or portion of a month it is required, except that payment will not be made for any month or fraction of a month that the Contractor is assessed liquidated damages as specified in [108.20](#).



## Basic Information

### Summary

Delaware currently has no specific DOT requirements for highway construction projects.

However, if you wish to contact the Delaware Department of Transportation, you can find more information from [their website](#).

#### Contact Page:

[https://deldot.gov/About/contact\\_info/index.shtml](https://deldot.gov/About/contact_info/index.shtml)

#### Email:

[dotpublic@delaware.gov](mailto:dotpublic@delaware.gov)

#### DELDOT Phone Number:

(800) 652-5600 or

(302) 760-2080

#### Mailing Address:

Delaware Department of Transportation

New Castle County

119 Lower Beech Street, Suite 100

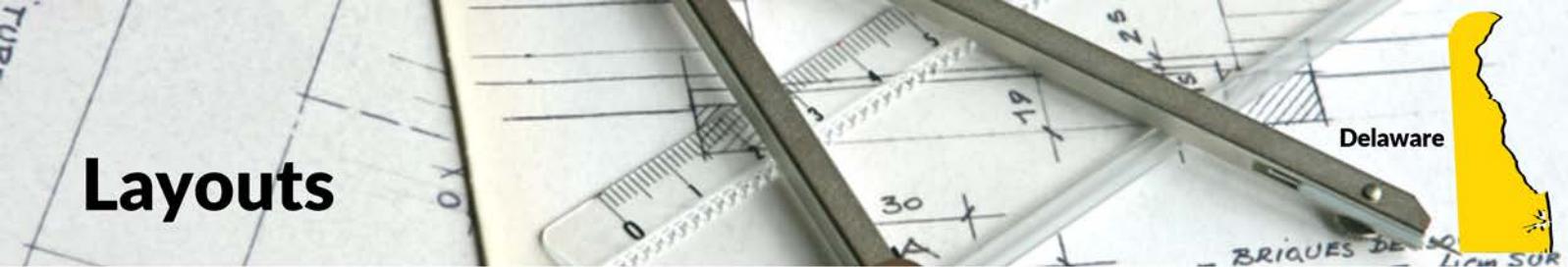
Wilmington, DE 19805

Kent County

900 Public Safety Blvd

Dover, DE 19901

# Layouts



While Delaware doesn't have a size requirement, we've found that in other states the 12' x 64' field office meets the most common layout requirements.



**12' x 64' field office**



## Basic Information

### Summary

While other states choose to separate different types of field offices using type names (type A, type B, etc.), Michigan instead calls them out by class, with three different sizes of DOT trailers.

Contact Page:

<https://www.michigan.gov/mdot/about/contact-mdot>

Email:

[MDOT@michigan.gov](mailto:MDOT@michigan.gov)

MDOT Phone Number:

(517) 241-2400

Mailing Address:

Michigan Department of Transportation  
425 W. Ottawa Street  
PO Box 30050  
Lansing, MI 48909

Detroit Office:

1060 W Fort Street  
Detroit, MI 48226

# Layouts

Michigan



BRIQUES DE SOUT Lien SUR

## Class 1

The Class 1 field office must be at least **1,000 square feet** and provide sewer and water hook-ups. It must also have internet service, **three offices**, a conference room, one restroom, and a refrigerator.



24' x 64' field office

## Class 2

The Class 2 field office must be at least **600 square feet** with **three offices** and internet service.



12' x 64' field office

# Layouts

Michigan



BRIQUES DE SOUT  
Lien SUR

## Class 3

The Class 3 field office must be at least **365 square feet** with **two offices** and internet service.



**10' x 50' field office**



## Section 809. Field Office

### 809.01. Description

This work consists of providing, equipping, operating, and maintaining field offices for the Engineer for the duration of the contract.

### 809.02. Materials

None specified.

### 809.03. Construction

Submit the location of the field office for approval by the Engineer.

Provide access and parking as required by the Engineer. Maintain access and parking, including grading, gravel, and snow removal.

The Engineer may terminate use of the field office during seasonal suspension of work. Any costs associated with suspension or extension of the field office will be paid for separately.

**A. General Requirements for Field Offices.** Provide field offices in accordance with the Michigan Occupational Safety and Health Administration (MIOSHA) standards for the performance of required activities and tests.

Provide a Department-approved weatherproof trailer, building, or space within an existing building. Provide and maintain this space for the exclusive use of the Engineer as a field office for activities and field testing until the project is complete. When the trailer, building, or space is occupied by both the Contractor and the Engineer, separate the Engineer's space and the Contractor's space.

The Department will equip its space with office furniture other than that required by the Contract.

Provide the following:

1. Heating and air-conditioning equipment that will maintain a temperature between 70 and 80°F during working hours;
2. At least two wall-mounted electrical power outlets per room that conform to local electric codes for office use;
3. At least two 75-watt electric lights per room;
4. Water and internet service;
5. A floor-to-ceiling height of at least 7 feet;



6. At least 6 feet of rigidly constructed, 30-inch-wide counter;
7. At least one sash, hinged, or sliding window per room;
8. Locks, bars, window locks, or a security system; and
9. First-aid kits, smoke detectors, and fire extinguishers required by local fire and safety authorities.
10. Maintained first-aid kits, smoke detectors, and fire extinguishers.

Equip the office with a metal-covered board or steel plate, 48 by 48 inches. Provide a gas or liquid-fueled stove for heating and drying aggregate, with at least two burners and the required fuel. Provide for storage and usage of the fuel in accordance with the Michigan State Police, Fire Marshal Division. Provide exhaust vents and hoods.

## B. Specific Requirements for Each Class of Field Office

1. **Field Office — Class 1.** Provide a building at least 1,000 square feet or trailer at least 14 by 70 feet. Provide hook-ups to sanitary sewer and water facilities, electric service, heating and cooling equipment, and internet service. Provide pressurized water facilities, potable water, and indoor plumbing. Provide a free-standing refrigerator with freezer that has a minimum total interior volume of 18 cubic feet and a microwave oven with a minimum 800-watt output. Partition the floor space to provide three offices (one office must have keyed locks to prevent access), a conference room, and a restroom. Provide a restroom with at least one sink with hot and cold water, and a toilet. Provide and maintain parking for at least 12 vehicles.
2. **Field Office — Class 2.** Provide a building of at least 600 square feet or a trailer at least 12 by 50 feet. Provide a prefabricated outdoor sanitary facility, pressurized water for testing, and bottled water for drinking. Provide hook-ups for electric service, heating and cooling equipment, and internet service. Regularly replenish the bottled water supply, and clean and maintain the sanitary facility. Partition the floor space to provide at least two offices, and provide one of the offices with keyed locks for secure access. Provide and maintain parking for at least 8 vehicles.
3. **Field Office — Class 3.** Provide a building of at least 365 square feet or trailer of at least 8 by 45 feet. Provide a prefabricated, outdoor sanitary facility, pressurized water for testing, and bottled water for drinking. Provide hook-ups for electric service, heating and cooling equipment, and internet service. Regularly replenish the bottled water supply, and clean and maintain the sanitary facility. Partition the floor space to provide at least two offices, and provide one of the offices



with keyed locks for secure access. Provide and maintain parking for 6 vehicles.

#### 809.04. Measurement and Payment

Pay Item	Pay Unit
Field Office, CI _____	Month
Field Office, Utility Fees.....	Dollar
Field Office, Secure Storage, Survey Equipment.....	Month
Field Office, Secure Storage, Testing Samples and Supplies .....	Month

A. **Field Office, CI \_\_\_\_\_.** The unit price for **Field Office, CI \_\_\_\_\_** includes the cost of setup, providing access, grading, maintaining, plowing snow, and utility hook-up charges. The Engineer will measure **Field Office, CI \_\_\_\_\_** in full months for the time required. The Department will pay for this item on a monthly basis, with the first pay estimate following the first full month of occupancy. Any use of the field office by the Department during a month will constitute a full month. The Contractor is responsible for paying taxes and providing required permits and insurance for field office occupancy by Department personnel.

If the contract does not include a pay item for **Field Office, CI \_\_\_\_\_**, and the Department requires the Contractor to provide a field office, the Department will consider it extra work.

B. **Field Office, Utility Fees.** The Department will establish a budget for **Field Office, Utility Fees** in advance of the project. The unit price for **Field Office, Utility Fees** includes the cost of monthly usage fees for electricity, gas, internet services and charges, cleaning, bottled water, monthly water, and sanitary service. The Department will reimburse the Contractor for monthly usage fees for electricity, gas, internet, cleaning, bottled water, water, and sanitary charges incurred by the Department. The Department will reimburse the Contractor monthly for field office utility fees, at invoice costs, with the first pay estimate after receipt of paid invoices from the Contractor. The Department will not allow mark-ups.

If the Engineer terminates use of the field office during seasonal suspension of work, the Department will continue to reimburse the Contractor for **Field Office, Utility Fees** during the suspension.

C. **Field Office, Secure Storage, Survey Equipment.** The unit price of **Field Office, Secure Storage, Survey Equipment** includes the cost of setup, providing access, maintaining, and securing storage area. The Engineer will measure **Field Office, Secure Storage, Survey Equipment** in full months for the time required. The Department will pay for this item on a monthly basis, with the first pay estimate following the first full month of occupancy.



MDOT Standard Specifications for Construction

Section 809

**D. Field Office, Secure Storage, Testing Sample and Supplies.** The unit price of **Field Office, Secure Storage, Testing Samples and Supplies** includes the cost of setup, providing access, maintaining, securing storage area, and equipment needed for testing samples. The Engineer will measure **Field Office, Secure Storage, Testing Samples and Supplies** in full months for the time required. The Department will pay for this item on a monthly basis, with the first pay estimate following the first full month of occupancy.

# Other Options

Most states have specific requirements for what goes inside highway construction field offices beyond spatial requirements, such as furnishings, technology, and more.

At Triumph Modular, our modular offerings can provide you with the right size field office to meet your needs. We also have The Solutions—furniture packages that can help you meet the specific requirements of the state that you're working in.

Some of these furnishing packages include:

- Express Office
- Planning Solution
- Express Bistro
- Business Bistro
- Express Conference
- Business Conference

However, we can't provide everything. Certain items, such as computers, will need to be acquired separately.



If you're having difficulty finding specific items to meet your state's requirements, don't worry. Our local sales representatives are here to help. With their extensive knowledge, they can guide you through the necessary steps and ensure you get the items you need. Contact us today to get started.

# Next Steps

Now that you've made it through all the red tape, it's time to order your field office—best to put your order in early, too.

Triumph Modular can set you up with the field office you need to do the job. Our expert team guides you through the purchasing process to ensure that you're following all state regulations for a seamless project experience.

Request a quote from our sales team today!

REQUEST A QUOTE

# Questions About Field Offices?

As an industry leader in modular construction, our expertise in mobile office trailers and modular construction is unmatched.

Reach out to us with any questions you may have. We're always here to help.

Request a Quote or call 1-800-257-2536



[TriumphModular.com](http://TriumphModular.com)