



## Department of Transportation

Rapid City Region  
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January 24, 2023

### ADDENDUM NO. 1

RE: Project Nos. 0009-452, 0009-451, & 0009-467, Garage Door Replacement in Rapid City and Deadwood, make the following changes to the plans

#### TO WHOM IT MAY CONCERN:

The following addenda to the plans shall be inserted and made a part of your proposal for the reference project.

On Section 2.2 A. (1) a) and h) change the wording to the following:

- a) Panel Thickness: 2 inches minimum
- h) Installed R-value 17.5 minimum

On Section 2.2 B. change the wording to the following:

- B. Windows: At least 3 windows spaced evenly across door, each 24"W x 11"H or larger, centered approximately 5' from bottom of door, installed with 1" insulated glazing of clear float glass.

Clarification regarding windows for the Deadwood Cold Storage Building: windows meeting the specifications are required on the new doors.

Clarification regarding track and roller size: 3 inch will be required.

Sincerely,

Tom Horan

Region Operations Engineer

Addendum  
South Dakota Department of Transportation  
*Better Lives Through Better Transportation*

# SDDOT GARAGE DOOR REPLACEMENT

## in RAPID CITY AND DEADWOOD

**Scope of Work:**

1. Remove existing garage doors and related hardware.
2. Furnish and install new garage doors (24 each), tracks, openers, photo eyes, opening/closing switches, remotes, and all related hardware.

**Notes:**

- All removed parts and equipment shall become the property of the contractor.
- Contractor shall coordinate garage door replacement and work hours with the following individuals for each building:
  - Rapid City – Building A – Robert Smith – (605)381-7174
  - Rapid City – Building B – AJ Hatch – (605)381-3330
  - Deadwood – Zac Heller (605)347-1978
- All work sites are to be kept secure by the contractor. No garage doors are to be left open or missing overnight.
- Garage door dimensions are provided for information only. The contractor is responsible to verify all dimensions prior to ordering materials.
- Note that new garage doors on Buildings A and B will not match color of those to be removed.

BUILDING	Quantity of Doors	Door Width*	Door Height*	Door Color	Comment
Rapid City - Building A	10	14' - 2"	16' - 2"	Dark Brown**	see note 1
Rapid City - Building B	10	14' - 2"	16' - 2"	Dark Brown**	see note 1
Deadwood Cold Storage	4	14' - 2"	14' - 2"	White	see note 2

\* Dimensions measured on the door, not the opening

\*\* New Door Color to match doors on Building G

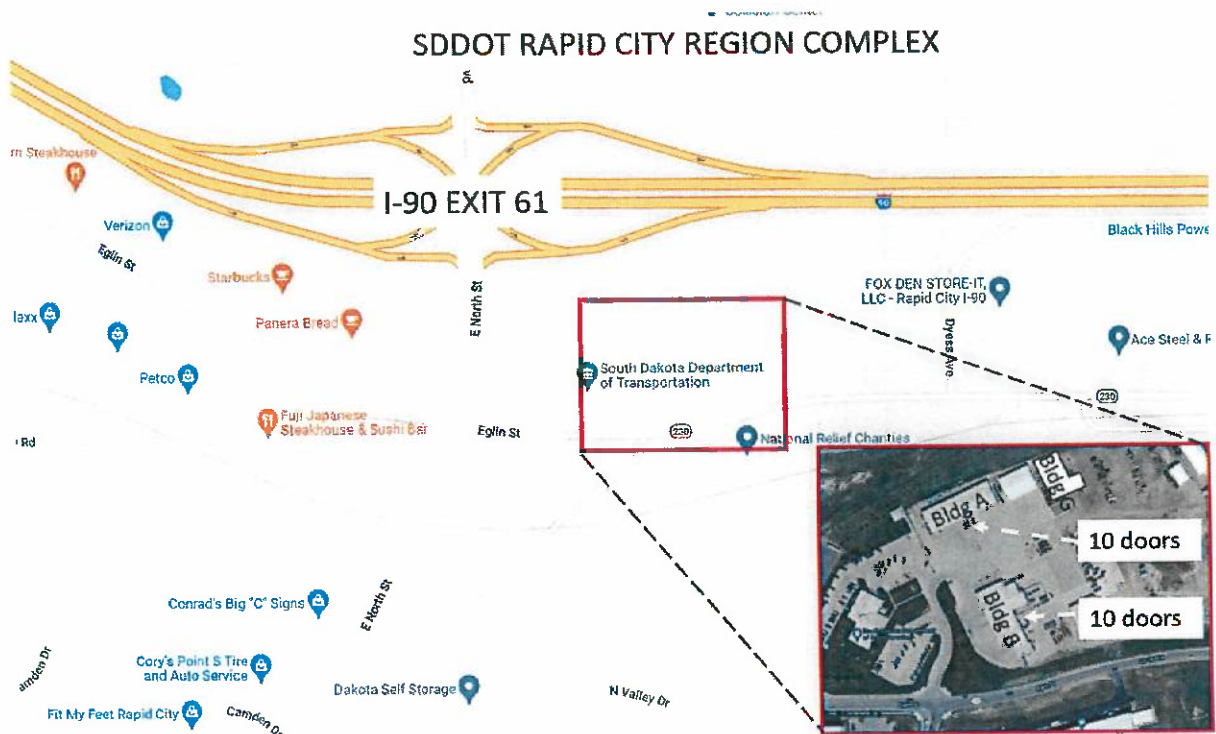
Note 1: Existing conduit for power/switches may be reused without replacement

Note 2: Install conduit for lines at this site. Building has interior lights, but existing doors are not powered.

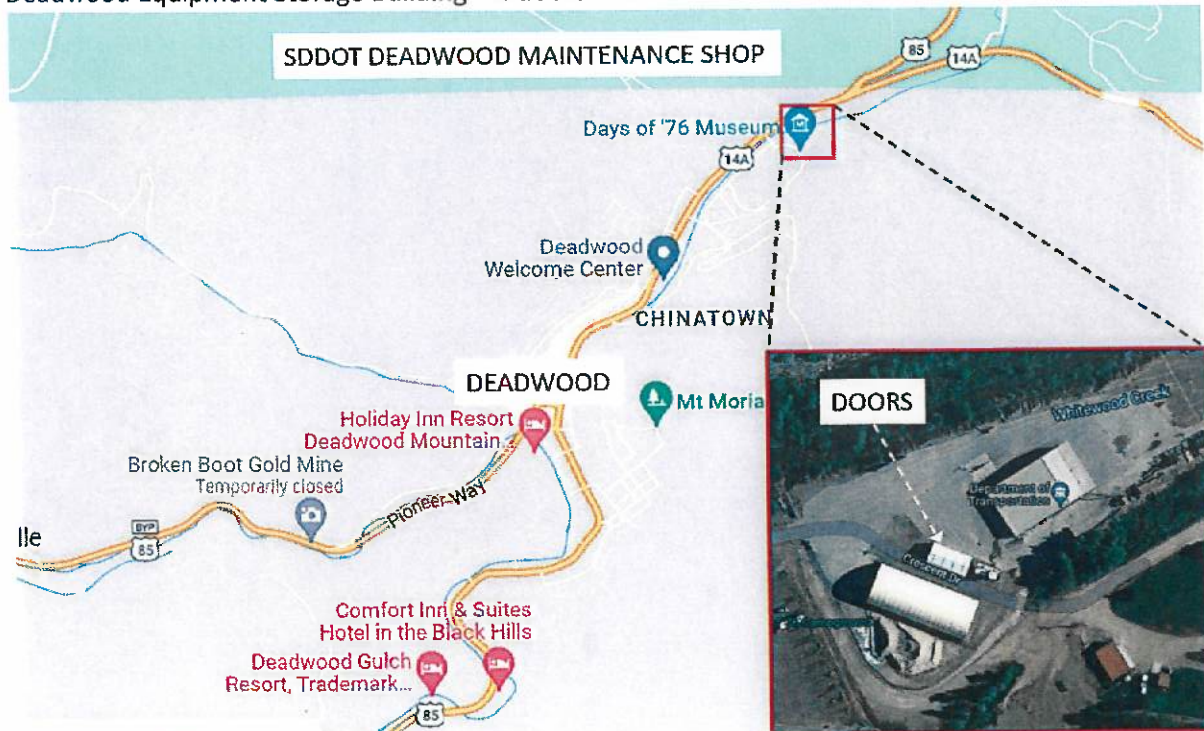


**LOCATIONS:**

Rapid City – 20 doors



Deadwood Equipment Storage Building – 4 doors





**South Dakota Department of Transportation**  
**Garage Door Replacement in Rapid City**

**SECTION 083613 - SECTIONAL DOORS**

**PART 1 - GENERAL**

**1.1 SUMMARY**

- A. Insulated Sectional Overhead Doors.
- B. Electric Operators and Controls.
- C. Operating Hardware, tracks, and support.

**1.2 RELATED SECTIONS**

- A. Section 033000 - Cast-In-Place Concrete: Prepared opening in concrete. Execution requirements for placement of anchors in concrete wall construction.
- B. Section 055000 - Metal Fabrications: Steel frame and supports.
- C. Section 060100 - Rough Carpentry: Rough wood framing and blocking for door opening.
- D. Section 079200 - Joint Sealers: Perimeter sealant and backup materials.
- E. Section 087000 - Door Hardware: Cylinder locks.
- F. Section 099113 - Exterior Painting: Field painting.
- G. Section 099123 - Interior Painting: Field painting.
- H. Section 260533 - Raceway and Boxes: Empty conduit from control station to door operator.
- I. Section 262726 - Wiring Connections: Electrical service to door operator.

**1.3 ACTION SUBMITTALS**

- A. Product Data: For each type and size of sectional door and accessory.
- B. Shop Drawings: For each installation and for special components not dimensioned or detailed in manufacturer's product data.
- C. Samples: For each exposed product and for each color and texture specified.

**1.4 INFORMATIONAL SUBMITTALS**

- A. Sample warranty.

## 1.5 CLOSEOUT SUBMITTALS

- A. Maintenance data.

## 1.6 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with minimum five years documented experience.
- B. Installer Qualifications: Authorized representative of the manufacturer with minimum five years documented experience.
- C. Products Requiring Electrical Connection: Listed and classified by Underwriters Laboratories, Inc. acceptable to authority having jurisdiction as suitable for purpose specified.

## 1.7 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened labeled packaging until ready for installation.
- B. Protect materials from exposure to moisture until ready for installation.
- C. Store materials in a dry, ventilated weathertight location.

## 1.8 PROJECT CONDITIONS

- A. Pre-Installation Conference: Convene a pre-installation conference just prior to commencement of field operations, to establish procedures to maintain optimum working conditions and to coordinate this work with related and adjacent work.

## 1.9 WARRANTY

- A. Warranty: Manufacturer's limited door and operators System warranty for 10 year against delamination of polyurethane foam from steel face and all other components for 3 years or 20,000 cycles, whichever comes first.

## PART 2 - PRODUCTS

### 2.1 PERFORMANCE REQUIREMENTS

- A. General Performance: Sectional doors shall comply with performance requirements specified without failure due to defective manufacture, fabrication, installation, or other defects in construction and without requiring temporary installation of reinforcing components.
- B. Structural Performance, Exterior Doors: Capable of withstanding the design wind loads.

1. Design Wind Load: **Uniform pressure (velocity pressure) of 20 lbf/sq. ft. (960 Pa), acting inward and outward.**
  2. Testing: According to ASTM E 330.
- C. Windborne-Debris Impact Resistance: Provide **glazed** sectional doors that pass missile-impact and cyclic-pressure tests according to **ASTM E 1996 for Wind Zone 1.**

## 2.2 DOOR ASSEMBLY

- A. **Steel Sectional Door:** Sectional door formed with hinged sections and fabricated according to DASMA 102 unless otherwise indicated.  
**Product by one of the following:**

- a. Amarr Garage Doors.
- b. Arm-R-Lite.
- c. C.H.I. Overhead Doors.
- d. Clopay Building Products.
- e. Fimbel Architectural Door Specialties.
- f. Haas Door.
- g. Harmann LLC.
- h. Martin Door Manufacturing.
- i. Raynor.
- j. Rite-Hite Corporation.
- k. Wayne-Dalton Corp.
- l. Windsor Door.

Insulated Steel Sectional Overhead Doors: Units shall have the following characteristics:

- (1) Door Assembly: Metal/foam/metal sandwich panel construction, with 1-3/4 inch wide PVC thermal break and patents pending weather-tight Dual Barrier tongue-in-groove meeting joints.
  - a) **Panel Thickness: 2 inches minimum**
  - b) Exterior Surface: Microgroove, textured.
  - c) Exterior Steel: .015 inch (.38 mm), hot-dipped galvanized.
  - d) End Stiles: 16 gauge single end stiles provided on doors up to and including 16 feet 2 inches wide; 16 gauge double end stiles provided on doors greater than 16 feet 2 inches wide up to and including 26 feet 2 inches; 14 gauge double end stiles provided on doors greater than 26 feet 2 inches wide. Provide with thermal break to prevent heat/cold transfer.
  - e) Spring Counterbalance: Sized to weight of the door, with a helically wound, oil tempered torsion spring mounted on a steel shaft; cable drum of diecast aluminum with high strength galvanized aircraft cable. Sized with a minimum 7 to 1 safety factor.
  - f) Standard cycle spring: 10,000 cycles.



g) Insulation: CFC-free and HCFC-free polyurethane, fully encapsulated.

h) Installed R-value 17.5 minimum

i) Installed U-factor: 0.14 Btu/hr/SF degrees F.

j) Air Infiltration: .09 cfm at 15 mph.

k) Sound Transmission Rating: STC 22

l) High-Usage Package: Provide with optional high-usage package.

m) Partial Glazing of Steel Panels:

n) Standard with black frame:

o) Color matched frame: white, brown, almond, taupe.

p) 1/2 inch (12.7 mm) Tempered Insulated

(2) Finish and Color:

(a) Two coat baked-on polyester:

(b) Manufacturer's full line of standard Exterior colors including: white, brown, ~~almond~~  
~~and taupe.~~

(3) Windload Design: Provide to meet the Design/Performance requirements specified.

(4) Hardware: Galvanized steel hinges and fixtures. Ball bearing rollers with hardened steel races.

(5) Lock:

(a) Keyed lock with interlock switch for automatic operator.

(6) Weatherstripping:

(a) Optional EPDM bulb seal. Recommended for extreme weather conditions.

(b) Optional Exclusive Advanced Performance Jamb seals recommended for extreme weather conditions.

(7) Track: Provide track as recommended by manufacturer to suit loading required and clearances available.

(a) Size:

1) 3 inch (76 mm).

(b) Type:

2) Standard lift.

(8) Electric Motor Operation: Provide UL listed electric operator, size and type as recommended by manufacturer to move door in either direction at not less than 2/3 foot nor more than 1 foot per second. Operator shall meet UL325/2010 requirements for continuous monitoring of safety devices.

(a) Entrapment Protection: Required for momentary contact, includes radio control operation.

3) Phot eye sensors.

(9) Operator Controls:

4) Push-button operated control stations with open, close, and stop buttons.

5) Key operated control stations with open, close, and stop buttons.

6) Surface mounting.

7) Interior location.

(10) Special Operation:

8) Radio control operation.

9) External antennae.

B. Windows: At least 3 windows spaced evenly across door, each 24"W x 11"H or larger, centered approximately 5' from bottom of door, installed with 1" insulated glazing of clear float glass.

### 2.3 TRACKS, SUPPORTS, AND ACCESSORIES

A. Tracks: Manufacturer's standard, galvanized-steel track system of configuration indicated, sized for door size and weight, designed for lift type indicated and clearances indicated on Drawings, Provide complete system including brackets, bracing, and reinforcement to ensure rigid support of ball-bearing roller guides for required door type, size, weight, and loading.

1. Track Reinforcement and Supports: Galvanized-steel members to support track without sag, sway, and vibration during opening and closing of doors. Slot vertical sections of track spaced 2 inches (51 mm) apart for door-drop safety device.

B. Windows: Manufacturer's standard window units of type, size, and in arrangement indicated. Provide removable stops of same material as door-section frames.

## 2.4 HARDWARE

- A. General: Heavy-duty, corrosion-resistant hardware, with hot-dip galvanized, stainless-steel, or other corrosion-resistant fasteners, to suit door type.
- B. Hinges: Heavy-duty, galvanized-steel hinges at each end stile and at each intermediate stile, according to manufacturer's written recommendations for door size. Attach hinges to door sections through stiles and rails.
- C. Rollers: Heavy-duty rollers with steel ball-bearings in case-hardened steel races, mounted with varying projections to suit slope of track. Provide 3-inch- (76-mm-) diameter roller tires for 3-inch- (76-mm-) wide track and 2-inch- (51-mm-) diameter roller tires for 2-inch- (51-mm-) wide track.
- D. Push/Pull Handles: Equip each push-up operated or emergency-operated door with galvanized-steel lifting handles on each side of door, finished to match door.

## 2.5 LOCKING DEVICES

- A. Locking Device Assembly: Fabricate with cylinder lock, spring-loaded deadbolt, operating handle, cam plate, and adjustable locking bars to engage through slots in tracks.
  - 1. Lock Cylinders: Cylinders specified in Section 087000 "Door Hardware.
  - 2. Keys: Two for each cylinder.

## PART 3 EXECUTION

### 2.6 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

### 2.7 INSTALLATION

- A. Install sectional doors and operating equipment complete with necessary hardware, anchors, inserts, hangers, and equipment supports; according to manufacturer's written instructions and as specified.
- B. Coordinate installation with adjacent work to ensure proper clearances and allow for maintenance.
- C. Tracks: Provide sway bracing, diagonal bracing, and reinforcement as required for rigid installation of track and door-operating equipment without distortion or stress.
- D. Accessibility: Install sectional doors, switches, and controls along accessible routes in compliance with regulatory requirements for accessibility.

- E. **Power-Operated Doors:** Install **automatic garage doors openers** according to UL 325.
- F. Coordinate installation of electrical service. Complete power and control wiring from disconnect to unit components.
- G. Fit and align door assembly including hardware. Adjust hardware and moving parts to function smoothly so that doors operate easily, free of warp, twist, or distortion.
- H. **Touch-up Painting:** Immediately after welding galvanized materials, clean welds and abraded galvanized surfaces and repair galvanizing to comply with ASTM A 780/A 780M.

## 2.8 CLEANING AND ADJUSTING

- A. Adjust door assembly to smooth operation and in full contact with weatherstripping.
- B. Clean doors, frames and glass.
- C. Remove temporary labels and visible markings.

## 2.9 PROTECTION

- A. Do not permit construction traffic through overhead door openings after adjustment and cleaning.
- B. Protect installed products until completion of project.
- C. Touch-up, damaged coatings and finishes and repair minor damage before Substantial Completion.

**END OF SECTION**

