



**SPECIAL PROVISIONS  
FOR  
ROCK OUTCROPS**

**Johnson County  
RT-C052(105)--9H-52  
NRT-C052(111)--9G-52**

**Effective Date  
October 17, 2017**

**THE STANDARD SPECIFICATIONS, SERIES 2015, ARE AMENDED BY THE FOLLOWING MODIFICATIONS AND ADDITIONS. THESE ARE SPECIAL PROVISIONS AND THEY SHALL PREVAIL OVER THOSE PUBLISHED IN THE STANDARD SPECIFICATIONS.**

**PART 1            DESCRIPTION**

**1.01 Summary**

Extent of limestone stonework as indicated on the plans including:

- A. Transporting salvaged and stockpiled on-site stone from east of Gaddis Pond.
- B. Furnishing stone if on-site stone is unacceptable.
- C. Cleaning Rock Outcrop stone.
- D. Provision and installation of 6 inch granular base leveling pad.
- E. Installation of Rock Outcrop retaining walls and single stones.

**1.02 Quality Assurance**

- A. Source for Stone: Salvaged from on-site and stockpiled near east of Gaddis Pond.
- B. Sources for Stone if existing on-site stone is unacceptable: Weber Stone, 12791 Stone City Road, Stone City, Iowa 52205, 319/462-3581; Buechel Stone Corp., 180 Knights Way Ste. 100, Fond du Lac, WI 54935, 800/236-4473; Eden Stone Co., W4520 Lime Road, Eden, WI 53019-1108, 920/477-2521.
- C. Installer Qualifications: Engage an experienced Contractor who has completed stone work similar in material, design, and extent to that indicated, and who has completed work that has resulted in construction with a record of successful in-service performances.

- D. Product Data: Upon request, submit certification that products supplied comply with identified specifications.

### **1.03 Submittals**

- A. Product Data: Submit photo of salvaged limestone, stonework accessories, granular base and other manufactured products required to Engineer for review and approval.
- B. Product Data: Submit 6 inch by 6 inch stone sample and photos of stone from quarry.
- C. Graffiti Control Products. Graffiti control products. Submit manufacturer's technical data for product intended to minimize the effects of graffiti and other environmental factors for review. Product shall provide long-term protection with minimum maintenance required.

### **1.04 Field-Constructed Mock-Up**

Prepare mock-ups for the following types of stonework. The purpose of the mock-ups is establishing standard of quality for aesthetic effects expected in completed work. Build mock-ups to comply with following requirements:

- A. Mock-up for limestone work shall consist of the in-place installation of one Rock Outcrop. Wall as shown in the plans.
- B. Mock-up for limestone work shall consist of the in-place installation of one Rock Outcrop single stone.
- C. Notify Engineer 1 week in advance of the dates and times when the mock-up will be erected.
- D. Mock-up will remain in place (if accepted) and will be held as the standard for judging the remaining stonework.

### **1.05 Delivery, Storage and Handling**

- A. On-site salvaged and stockpiled limestone will be located east of Gaddis Pond and available for Contractor's use.
- B. Store and handle stone and related materials to prevent their deterioration or damage due to breakage, chipping, or other causes.
- C. Do not use pinch or wrecking bars.

### **1.06 Project Conditions**

Prevent staining of stone from adjacent work operations. Immediately remove such materials from stone without damage to latter.

## **PART 2 MATERIALS**

### **2.01 Stone**

- A. Stone: Clean delivered stone, salvaged from on-site
- B. Stone: Should on-site stone be unacceptable for re-use, furnish limestone slabs with a flat bottom and top and a clean face. Provide slabs with a minimum depth of 8 inches, and as specified in the contract documents.
- C. Do not cut or modify faces of stone.

**2.02 Granular Base (Leveling Pad):**

Furnish and install granular base leveling pad material that complies with Section 4132 of the Standard Specifications.

**2.03 Graffiti Control:**

Provide clear, solvent-based product specifically formulated to weatherproof limestone and other masonry elements and protect treated surfaces without altering natural color.

**2.04 Backfill Material:**

Granular backfill material: Comply with Standard Specifications Section 4133 when granular backfill material is necessary according to the contract documents.

**PART 3 CONSTRUCTION****3.01 General**

- A. Execute stonework by skilled contractor.
- B. INSPECTION: Verify that support work and site conditions are ready to receive work of this Section. Verify that items built-in under other Sections are properly located and sized. Beginning of installation means acceptance of existing conditions and support work.
- C. PREPARATION: Establish layout. Protect from disturbance. Clean salvaged stone surfaces which have become dirty or stained prior to setting to remove soil, stains and foreign materials. Clean stones by thoroughly scrubbing stones with fiber natural bristle brushes followed by a thorough drenching with clear potable water. Use only mild stone cleaning compounds that contain no caustic or harsh filler or abrasives. Do not use wire brushes or implements which can mark or damage exposed surfaces.

**3.02 Limestone Installation**

- A. Place limestone slabs according to the contract document. Single slabs are placed apart from each other according to the plans. Contact engineer to receive approval of layout prior to placement.
- B. Where low stone retaining walls are located, ensure adjacent slabs are in full contact without gaps. Stagger vertical joints so no joint is located closer than 2 feet to a joint in the course below it. After each course is laid, place backfill material behind the wall and compact with hand tools to a density equal to or greater than the existing soil behind the wall.
- C. Stone shall be set in a manner through use of shims to allow for level placement.

**3.03 Graffiti Control**

- A. Contractor: shall provide all materials, labor and equipment to provide all exposed stone with two applications of graffiti control.
- B. Surface to be sealed must be clean and thoroughly dry. Surface and air temperatures should be at least 50°F at time of application and for 8 hours following. First application shall be at least 28 days after completion of actual stone work.
- C. Application shall be by brush, roller or airless spray, the surface should be flooded to the point of maximum absorption. Coverage will vary from 150 to 400 square feet per gallon under normal weather conditions coating will dry to touch in 50 minutes and dry hard in four hours. After 24 hours apply a second coat. Care shall be taken to ensure other finish surfaces and plantings in the area are not coated.

**PART 4        METHOD OF MEASUREMENT AND BASIS OF PAYMENT**

4.01 Measurement: The Engineer shall measure the cubic yards of Rock Outcrop satisfactorily installed (and furnished should on-site stone be unacceptable) in accordance with the plans and this Special Provision, and as required by the contract documents. Granular base and backfill will not be measured and is incidental to rock outcrop item.

4.02 Payment: For cubic yards of Rock Outcrop installed (and furnished should on-site stone be unacceptable) and measured for payment, the Contractor shall be paid the contract unit price. The payment shall be full compensation for the limestone installed. Work connected with granular base and backfill is incidental to rock outcrop item.