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## DRY WALL STONE FENCE INSTALLATION INSTRUCTIONS

### PART 1 – GENERAL

#### **Work Included:**

All labor and material for the furnishing and installation of exterior landscaping stone fence.

#### **Related work:**

Contractor shall include building the stone wall, and materials furnished through other divisions such as site drain pipes, trees grates, curbing and other miscellaneous items to complete project.

#### **System Description:**

Stone fence walls for landscaping purposes comprised of natural quarried stone. Structural requirements for walls supporting applied loads such as lateral soil loads from other structures shall be as shown on the plans and engineered by an architect's approval.

#### **Samples:**

Provide samples of adequate size and quantity to represent the full range of color, texture, and other naturally occurring characteristics for approval.

#### **Delivery, Storage, and Handling:**

1. Stone shall be delivered on pallets.
2. Contractor shall provide a dry, stable roadway for removing pallets from truck.
3. Pallets shall be placed on level ground and shall not be stacked.
4. Contractor shall provide tarpaulin covering during inclement weather.

#### **Site conditions:**

Stone walls shall be constructed on a stable base as specified on the plans. Walls shall not be placed on frozen or mucky soil base.

## PART 2 – PRODUCTS

### Acceptable Manufacturers:

Buechel Stone Corp  
W3639 Hwy H  
Chilton, WI 53014-9643  
PH# 800.236.4473  
FAX# 920.849.8229

Buechel Stone Corp.  
N4399 Hwy 175 S.  
Fond du Lac, WI 54937-9266  
PH# 920.922.4790  
FAX# 920.922.5298

### Materials:

1. a. Wall stone shall be (insert stone type; i.e. Chilton 8” wall stone, Fond du Lac Random wall stone, etc.)
  - b. Flexural strength (PSU) 1360 (wet) and 1980 (dry) per ASTM C880-87 test.
2. If wall is a mortar laid wall:
  - a. Mortar mix: ASTM C-270-73 Type S
  - b. Sand: ASTM C144-70
  - c. Hydrated lime: ASTM C207-49
  - d. Portland cement: ASTM C-150 73a
  - e. Masonry cement: ASTM C91-71 Type II
3. Contractor shall use stone shims from ¼”- ¾” in rise to stabilize the balance of stone. These shims can be installed dry or with construction adhesive, keeping the construction adhesive buried in the wall, not exposed.

## PART 3 – EXECUTION

### Inspection:

Before work progresses, verify that base material or structure complies with specifications on the plans. If stone is to be laid against a structural backer, verify that backing is plumb and that all bearing surfaces are level. For mortar laid walls, base must extend below frost line. For loose laid walls, base may not be required to extend below frost. Verify with supervising architect.

### Preparation:

1. Stone must be cleaned of loose fractures and other foreign matter before incorporation into the walls.
2. For mortar laid walls: ties, anchors, lintels, etc. must be cleaned of loose rust, ice or other foreign matter before incorporation into the wall.
3. For dry laid walls:
  - a. Base: use ¾” to minus crushed gravel

### Installation:

1. General:
  - a. It is recommended to use higher rise stones at the base to add stability. These are to be set in a band course where one lineal course will be the same/similar rise as the stones allowing +/- ½”. Care shall be taken not to stack head joints. Each stone shall balance on its own, using shims to ensure stability as needed. Choose stones that lay the flattest for base. It is important to build up outside corners with larger and longer stone pieces.

b. Stones that require construction adhesive need to be clean and free from moisture, dirt and dust. Often, construction adhesive or mortar is used to secure capstones or unique installation where stone needs to be secured. Securing capstones may be required in a public place. Construction adhesive needs to be able to bridge. Mortar can be used but needs to fill entire working cavity and not exposed.

2. Pattern Bond:

- a. Lay stone in random lengths taking care to avoid vertical joints by overlapping each joint with the stone above a minimum 4 inches.
- b. Uniformly distribute color range of stone over total area of work.

3. Joints:

- a. Joints to be tight as stone will allow. Sawing or grinding of stone high spots shall be allowed, but these surfaces may not be exposed.

4. Weep Holes:

- a. Weeps ropes and holes shall be naturally installed and created as the wall is constructed.

**Cleaning:**

- 1. On mortar laid walls, cut out and re-point any defective joints.
- 2. Do not use cleaning agents on stonework. Clean stone masonry with stiff nylon brush and clean water only.
- 3. Contractor shall clean site of stone chips, mortar droppings, etc.
- 4. If further information on cleaning stonework is needed, please go to [www.buechelstone.com](http://www.buechelstone.com).

**Protection:**

Contractor shall protect surrounding areas and surfaces during construction. Contractor shall limit area of activity to the construction limits shown on the plans.