PART 1 - GENERAL

1.1 RELATED DOCUMENTS
   A. Drawings and general provisions of the Contract, including Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY
   A. This Section includes the following:
      1. Outcropping Stone
      2. Dry Laid Stone Walls
      3. Drainage Aggregate
      4. Compacted Aggregate Base
      5. Rip Rap
   B. Related Sections include the following:
      1. Division 2 Section Earthwork for soil materials, excavating, backfilling, and site grading.

1.3 REFERENCES

1.4 SUBMITTALS
   A. Submit product samples for all types of landscape stone.

PART 2 - PRODUCTS

2.1 MATERIALS
   A. Outcropping Stone: Natural quarried dolomitic stone, Provide the following type, size range, and color:
      1. Type: Split Face or Weathered Edge
      2. Size: 3'-5' length, 8"-12" face height, 30"-36" wide
      3. Color: Lake Michigan Limestone natural color range, or University approved equal.
B. Dry Laid Stone Walls: Natural quarried dolomitic stone, Provide the following type, size range, and color
   1. Type: Split Face or Weathered Edge.
   2. Size: 1'-3' length, 6"-12" face height, 18"-24" wide
   3. Color: Lake Michigan Limestone natural color range, or University approved equal.

C. Compacted Aggregate Base: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; MDOT 22A, as defined in Michigan Standard Specifications for Construction.

D. Drainage Aggregate:: Clean ¾” – 1 ½” diameter washed stone.

E. Geotextile Fabric for Drainage Backfill:
      a. TerraTex SD, as manufactured by Hanes Geo Components, or University approved equal.

F. Rip Rap:
   1. Complying with MDOT 813 and 916 except as herein specified:
      a. Stone to be sound, tough, and durable rock or stone; broken concrete pieces are not acceptable.
      b. Stone to be washed, native, angular river stone or rock.
      c. Smaller pieces of angular river stone or rock must be used for filling spaces between rip rap stone.

PART 3 - EXECUTION

3.1 PREPARATION

A. Grade slope bank to a maximum slope of 1 horizontal to 1 vertical.

B. Compact subgrade to 95% of Maximum Unit Weight.

C. Place and compact aggregate base to 95% Maximum Unit Weight.

D. Place and secure geotextile fabric as shown on the Plans.

E. Place backfill aggregate inside geotextile fabric in + 12 inch wide trench, hold down 4" from top of stone.

F. Tolerance: ±0.2 feet from plan grade.

3.2 INSTALLATION

A. Landscape Stone: Review placement of stone with Owner's Representative.

B. Vertical joints between outcropping stone courses of stone shall overlap a minimum of 1 foot.
C. Courses of stone shall be stepped back or forward as shown on Drawings or as directed by the Owner's Representative in the field.

D. Stone shall be stacked in irregular, natural patterns. Uniform or running bond stacking will be rejected.

E. Shim stone as necessary to prevent any rocking motion between courses.

3.3 CLEAN UP

A. All excess and waste material shall be disposed of legally off-site.

B. Upon completion of Work, leave areas in clean condition.

END OF SECTION 323253
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