

Part 1 General

1.1 RELATED SECTIONS

- .1 Section CW 3110 – Sub grade

1.2 SUBMITTALS

- .1 Product Data: Including stone type and quantity.
- .2 The following shall be submitted 10 days, minimum, prior to beginning work under this Section.
 - .1 List of materials and sources for products to be installed under this section. Include a description of the components of the material.
 - .2 A half cubic foot of gravel
 - .3 A 1’x1’ sample of compacted gravel

1.3 QUALITY ASSURANCE

- .1 Sources: The crushed stone surfacing shall be obtained from a single source and be of the same type material to assure uniformity of quality and appearance. Deliver all project stone materials to an approved holding area prior to commencement of work for review by the Contract Administrator.

1.4 DELIVERY, STORAGE, AND HANDLING

- .1 Deliver materials to the site only when the work area is ready and surfacing can begin.
- .2 Store and handle gravel and related materials to prevent deterioration or damage due to moisture, temperature changes, contaminants, corrosion, breaking, chipping, or other causes.
- .3 Store cementitious materials off the ground, under cover, and in a dry location.
- .4 Store aggregates, covered and in a dry location, where grading and other required characteristics can be maintained and contamination avoided.
- .5 Handling:
 - 1. Handle materials in a safe and professional manner. Use tools, equipment and methods designed and suitable for the task being performed.
 - 2. Comply with all applicable safety standards, requirements, and practices, including those for using safety glasses or goggles.

1.5 SUBSTITUTIONS

- .1 Make no materials substitutions without the written approval of the Contract Administrator.

1.6 LAYOUT

- .1 Verify the location of all elements prior to installation with Contract Administrator.

Part 2 Products

2.1 CRUSHED STONE SURFACING BASE AGGREGATE

- .1 3/4" Down Crushed Limestone per CW3110

2.2 CRUSHED STONE SURFACING TOP COURSE

- .1 1/4" Down Crushed Limestone per CW3110

Part 3 Execution

3.1 EXAMINATION

- .1 Verify the following:
 - .1 Support work and site conditions are ready to receive Work of this Section.
 - .2 Items in other Sections are properly located and sized.

3.2 PREPARATION

- .1 Do not work frozen soils.
- .2 Protect soils from excessive moisture.
- .3 Apply supplemental moisture to overly dry soils.

3.3 GRADING

- .1 Removal of materials beyond indicated subgrade elevations or dimensions without specific direction of the Contract Administrator is not authorized. Unauthorized excavation, as well as remedial work directed by the Contract Administrator shall be at the Contractor's expense.
- .2 Uniformly grade areas within limits of grading under this section, including adjacent transition areas. Smooth finished surface within specified areas. Compact with uniform levels or slopes between points where elevations are shown, or between such points and existing grades. Finish surfaces free from irregular surface changes.

- .3 Material Storage: Stockpile satisfactory excavated materials where directed, until required for backfill or fill. Place, grade and shape stockpiles for proper drainage.
- .4 Locate and retain soil materials away from edge of excavations and drip lines of trees to remain.
- .5 Dispose of excess soil material and waste materials as herein specified.

3.4 COMPACTION

- .1 General: Control soil compaction during construction providing minimum percentage of density specified for area classification. Do not allow equipment traffic to overly compact areas beyond specified percentages. Remediate over compaction as directed by the Contract Administrator including ripping, regrading and re-compaction or over-excavation and in-kind replacement per plan.
- .2 Percentage of Maximum Density Requirements: Compact soil to not less than the following percentages for maximum density for soils which exhibit a well-defined moisture density relationship (cohesive soils) determined in accordance with ASTM D1557; and not less than the following percentages of relative density; determined in accordance with ASTM 2049, for soils which will not exhibit a well defined moisture density relationship (cohesionless soils).
 - .1 Import aggregate base material for Crushed Stone Surface- 95%.
 - .2 Crushed Stone Surface Top Course - 95%
- .3 Moisture Control:
 - .1 Where sub-grade or lift of soil material must be moisture conditioned before compaction, uniformly apply water to surface of subgrade, or layer of soil material, to prevent free water appearing on surface during or subsequent to compaction operations.
 - .2 Before compaction, moisten or aerate each layer as necessary to provide optimum content. Compact each layer to required percentages of maximum dry density or relative dry density for each area classification.
 - .3 Do not perform compaction operations on excessively wetted soils.

3.5 CRUSHED STONE SURFACING BASE BACKFILL

- .1 Provide a minimum 6" compacted lift of specified Crushed Stone Surfacing Base Aggregate true to the elevations either described or implied in the Contract Drawings or as required to match adjacent existing pavements, and a minimum of 6" beyond the horizontal layout lines of pavement as indicated on the Contract Drawings.

3.6 CRUSHED STONE SURFACING TOP COURSE

- .1 Provide a 2” compacted lift of specified Crushed Stone Surfacing Top Course Crushed Rock true to the elevations either described or implied by the Contract Drawings or as required by the Contract Administrator.
- .2 Shape the crushed stone area to the desired grades and shape surfaces so as to provide natural runoff and drainage.

Part 4 Quality Control

4.1 INSPECTION

- .1 All workmanship and all materials furnished and supplied under this Specification are subject to close and systematic inspection and testing by the Contract Administrator including all operations from the selection and production of materials through to final acceptance of the specified work. The Contractor shall be wholly responsible for the control of all operations incidental thereto notwithstanding any inspection or approval that may have been previously given. The Contract Administrator reserves the right to reject any materials or works which are not in accordance with the requirements of this Special Provision.

4.2 ACCESS

- .1 The Contract Administrator shall be afforded full access for the inspection of materials.

END OF SECTION