
PART 1 - GENERAL

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| 1.1 <u>Description of Work</u> | <p>This Section includes but is not limited to the following:</p> <ul style="list-style-type: none">.1 All normal removals as required to complete the work. All items to be verified by a site visit prior to submission of a tender. All available plans of the existing structure are available for viewing at the Project Manager's office, 1713 Bedford Row, Halifax, N.S..2 Any derricks, gas lines or buildings to be removed by others unless otherwise indicated..3 Mobilization and demobilization of all equipment and material required to complete the specified work as outlined on the contract drawings. |
| 1.2 <u>Related Work</u> | <ul style="list-style-type: none">.1 Refer to other specification sections for related information..2 Refer to Section 01 33 00 for Shop Drawing/Submission requirements. |
| 1.3 <u>Submissions</u> | <ul style="list-style-type: none">.1 Methodology:<ul style="list-style-type: none">.1 When requested provide methodology for carrying out the work.2 Provide submission in accordance with Section 01 33 00. |
| 1.4 <u>Protection</u> | <ul style="list-style-type: none">.1 Prevent movement, settlement or damage of adjacent structures. Provided bracing and shoring as required. In event of damage, immediately replace such items or make repairs to approval of Departmental Representative and at no additional cost to Departmental Representative. |
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| | .2 | Prevent debris from going adrift and becoming a menace to navigation. |
| | .3 | All damage to existing structures, roadways, pipelines, electrical systems not specified for removal to be repaired at the Contractor's cost to the satisfaction of the Departmental Representative. |
- 1.5 Measurement for Payment
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| | .1 | Sitework, demolition and removals will be measured in accordance with Section 01 29 00. |
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- PART 2 - PRODUCTS
- Not applicable.
- PART 3 - EXECUTION
- 3.1 Preparation
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| | .1 | Inspect site and verify with Departmental Representative items designated for removal and items to be preserved. |
| | .2 | Locate and protect utility lines. Preserve in operating condition active utilities traversing site. |
| | .3 | Provide temporary power and lighting as shown on the plan or as required by the Departmental Representative. |
| | .4 | Existing fill and vent pipes, oil waste tanks and underground storage tanks to be protected from any damages. All repairs to damages as a result of Contractor's operations to be at his cost and to the satisfaction of the Departmental Representative. |
- 3.2 Removal and Salvage of Material
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| | .1 | Remove items indicated. |
| | .2 | Do not disturb adjacent structures designated to remain in place. |
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- .3 At end of each day's work, leave work in safe condition so no part is in danger of toppling or falling.
 - .4 Salvage items as indicated.

3.3 Disposal of Material

- .1 Disposal of materials not designated for salvage or re-use in work, will be the contractor's responsibility, and must be disposed of off-site.
- .2 The material to be disposed is to be transported and disposed of in an environmentally acceptable manner to the satisfaction of the Departmental Representative, and in accordance with any local, Municipal, Provincial and Federal restrictions and regulations.

3.4 Restoration

- .1 Upon completion of work, remove debris, trim surfaces and leave work site clean.
 - .2 Reinstate areas and existing works outside areas of demolition to conditions that existed prior to commencement of work. Match condition of adjacent, undisturbed areas.
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PART 1 - GENERAL

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| 1.1 | <u>Related Work</u> | .1 | Refer to other Specification Sections for related information. |
| 1.2 | <u>References</u> | .1 | ASTM D4595-86(1996)(or latest edition), Tensile Properties of Geotextiles by the Wide-Width Strip Method. |
| | | .2 | CAN/CGSB-4.2 No.4.2-M87 (or latest edition), Textile Test Methods. |
| | | .3 | CAN/CGSB-148.1 No 14-M93 (or latest edition), Methods of Testing Geotextiles and Geomembranes. |
| | | .4 | ASTM D4751-95, Determining Apparent Opening Size of a Geotextile. |
| 1.3 | <u>Mill
Certificates</u> | .1 | At least two weeks prior to start of work, furnish Departmental Representative with copies of mill test data and certificate that filter fabric delivered to job site meets requirements of this section. |
| 1.4 | <u>Approval</u> | .1 | Obtain written approval of Departmental Representative for filter fabric before installation of material in work. |
| 1.5 | <u>Measurement
for Payment</u> | .1 | Filter fabric will be measured in accordance with Section 01 29 00. |

PART 2 - PRODUCTS

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| 2.1 | <u>Materials</u> | .1 | Synthetic fiber: rot proof, unaffected by action of oil or salt water and not subject to attack by insects or rodents. |
| | | .2 | Fabric: nonwoven polyester and/or polypropylene fabric. |
| | | .3 | Seams: sewn in accordance with manufacturer's recommendations. |
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Filter Fabric

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- .4 Physical properties: to ASTM D4595,
CAN/CGSB-4.2 No.4.2, CAN/CGSB-148.1 No 14
and ASTM D4751 ;
- .1 Tensile Strength 900 N
.2 Tear Strength 360 N
.3 Elongation at break 50%
.4 Filtration Opening Size = 100 - 80um.
.5 Permeability = 2×10^{-1} cm sec.

PART 3 - EXECUTION

3.1 Preparation
of Base

- .1 Fine grade area to be covered with filter
fabric to a uniform surface area. Fill
depressions with suitable material.

3.2 Placing
Filter Fabric

- .1 Place filter fabric on prepared surface
loosely from top of the slope to the bottom
allowing fabric to conform easily to
contours of the slope.
- .2 Allow one (1) metre of fabric for
overlapping and anchoring purposes, 700 mm
at the top and 300 mm at the bottom of the
slope.
- .3 Longitudinal seems will have a minimum of
450 mm overlap and will be pinned every 600
mm with 100 mm nails.
- .4 Anchor top of fabric at 1 metre intervals
with 15mm diameter steel rods 600 mm in
length. Anchor bottom of fabric by folding
fabric and placing fill on top.
- .5 Place granular base material over filter
fabric to a depth of 200 mm. No equipment
will be permitted on fabric.
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PART 1 - GENERAL

- 1.1 Related Work
- .1 Refer to other Specification Sections for related information.
 - .2 Refer to **Section 01 33 00** for Shop Drawing/Submission requirements.
- 1.2 Reference Standards
- .1 ASTM C127-88(1993)e1 (or latest edition) Specific Gravity and Absorption of Coarse Aggregate
 - .2 AASHTO T85-88 (or latest edition) Specific Gravity and Absorption of Coarse Aggregate
- 1.3 Submissions
- .1 Product Data/Samples:
 - .1 Provide samples of materials proposed for the work.
 - .2 Methodology:
 - .1 Provide methodology for carrying out the work.
 - .3 Provide submissions in accordance with **Section 01 33 00**.
- 1.4 Measurement for Payment
- .1 Rip Rap will be measured in accordance with **Section 01 29 00**.
 - .2 Prices will include the entire cost of supplying and placing the material in the work, rough grading as necessary, the levelling and finish grading all as shown on the drawings, and as specified.

PART 2 - PRODUCTS

- 2.1 Materials
- .1 Hard durable crushed quarried rock, free from silt, clay, organic matter and other foreign substances and free from splits, seams or defects likely to impair its soundness during handling or under action of water.
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Rip Rap

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- .2 Specific gravity of not less than 2.65 when tested to ASTM C127 or AASHTO T85.
- .3 Rip Rap will be sized as shown on drawings and will be free of seams that would affect its durability.

PART 3 - EXECUTION

- 3.1 Preparation
 - .1 Sound area and record elevation of material on which mattress will be placed before placing rip rap.
- 3.2 Placement
 - .1 Do not place material under poor weather conditions.
- 3.3 Tolerances
 - .1 Surface of bearing layer to be within 50 mm of elevation indicated and variation in elevation over whole area of bearing layer not to exceed 75 mm.
 - .2 Other layers to be within 100 mm of lines shown.
- 3.4 Protection
 - .1 Take into account anticipated weather conditions and degree of exposure of site in setting requirements for protection.