DRAWINGS FOR CONSTRUCTION OF THIRD STREET IN DELAWARE COUNTY

FROM STA 11+00.00 TO STA 16+00.00 LENGTH 320.00 FT 0.061 MI.

SCALE

HORIZONTAL

0 25 50 FT

VERTICAL

0 5 10 FT

(D AND OTHER SCALES AS SHOWN ON THE DRAWINGS)

DESIGN DESIGNATION

HIGHWAY CLASSIFICATION - URBAN MINOR COLLECTOR

DESIGN SPEED - 30 MPH (25 MPH POSTED)

PAVEMENT WIDTH - 21'

SHOULDER WIDTH - 5'

MIDHAY WIDTH - N/A

PROJECT DATA

CURRENT ACT DEsign YEAR ACT

GENERAL - N/A 1,000 VPD (2012)

CNP - 220 VPD (1995)

SEC - E5E

T - 95 E

SAFETY REVIEW
MARCH 2011

PRELIMINARY DRAWING OR INFORMATION

RECOMMENDED DATE

PREPARED BY: LAWSON DESIGN GROUP, INC.

LOCAL BOROUGH MANAGER

DATE

LOCAL BOROUGH COUNCIL PRESENT

DATE

LOCAL BOROUGH COUNCIL VICE-PRESIDENT

DATE
EROSION AND SEDIMENT POLLUTION CONTROL

CONSTRUCTION PROCEDURES

1. The Erosion and Sediment Pollution Control Plans shown on the plans and contained in the Bid Documents have been approved by the Pennsylvania Department of Environmental Protection for conformance with Chapter 102, Regulations. It shall be the responsibility of the Contractor to ensure that the Construction Activities to be performed do not exceed the number of daily hours as set forth in the Pennsylvania Department of Environmental Protection Construction Permits and the methods of operations. Prior approval must be obtained for any alterations proposed for the contract documents.

2. Conduct all operations as specified in the Erosion and Sediment Pollution Control Plan and in such manner as to prevent erosion and sedimentation into streams. Do not discharge water containing sediments for pollutants into the streams.

3. Any pumping of sediment-laden water shall be filtered through the pumped waste filtering bag.

4. Direct flowing water away from project construction areas.

5. Limit movement of equipment through the streambed in accordance with the approved plan so as to prevent any damaging to the stream system.

6. Seed and mulch all stock areas immediately upon completion of grading in accordance with Pennsylvania Code 408/200

7. Upon completion of temporary cessation of the earth disturbance activities, on any site thereof, the site of the disturbance shall be stabilized.

8. Only limited disturbances will be permitted to provide access to erosion and sediment pollution control measures.

9. Control the entire grading area at all times during construction by placing the erosion and sediment pollution control devices that can be installed prior to disturbing the earth and the stabilization devices as soon as practicable.

10. Prior to commencement of work, notify the County Conservation District of the completion of all proposed sites and the methods of disposal.

11. Remove all water originating outside of the project from that originating within.

12. During the life of the contract, the Contractor shall maintain an inspection to be responsible for the maintenance of all erosion and sediment pollution control devices in accordance with the special provisions, and as required to prevent any damage to the same and for the protection of the receiving streams.

13. The Contractor is responsible for removing or replacing the excavation device during periods of high water.

14. Seed all borrow and waste areas in accordance with the approved plans and in accordance above.

15. Any erosion and sediment pollution control devices required or necessary to protect areas from erosion during the stabilization period shall be maintained until permanent stabilization is achieved.

16. After permanent stabilization has been achieved, temporary erosion and sediment pollution control devices may be removed, areas disturbed during removal of the controls must be stabilized immediately. The Contractor is responsible for removing the controls at the end of the project.

17. The County Conservation District is to be notified prior to commencement and upon completion of the project.

SUGGESTED CONSTRUCTION SEQUENCE

1. Install site barrier fence as indicated on the plan.

2. Construct all site water filtering bags as indicated. Ensure proper drainage occurs from the filtered water bag to the stream.

3. Excavate as required for new construction of box culverts.

4. Install temporary support of excavation and construct the proposed wall.

5. Install box culvert and backfill.

6. Remove the existing culvert structure.

7. Construct and pave the new roadway.

8. Grade and control the entire project area as indicated.

9. Seed and mulch all disturbed areas.

10. Once the permanent seeding is established, remove and properly dispose of erosion and sediment pollution controls.

ALTERTATIVE EROSION AND SEDIMENT POLLUTION CONTROL PLAN

1. Coupled with these requirements when submitting an alternative plan for accomplishing equal or better temporary and permanent erosion and sediment pollution control, do not start work until the alternative erosion and sediment pollution control plan, schedule, and operation methods have been approved by the Pennsylvania Department of Environmental Protection and the County Conservation District as applicable.

2. Apply for any earth disturbance permit or permit amendment not included in the proposal documents that are required because of the nature of the proposed erosion and sediment pollution control measures.

3. Provide and furnish with the attachments, plans and documents that are required by the Department of Environmental Protection or the County Conservation District.

4. Provide simultaneously to the Engineer a copy of all plans and documents that affect the construction permit.

5. Provide immediately to the Engineer any modifications that are made to the plans and documents that are subject to the Department of Environmental Protection or the County Conservation District.

6. Obtain a permit from the Department of Environmental Protection prior to starting any work when a permit is required, and the approval of the County Conservation District when a permit is not required.

7. Acquire areas outside of the limits of disturbance that are necessary for erosion and sediment pollution control. Proceeded with the agreed procedures described in Pennsylvania Code 408/2007 ((category areas and waste areas)

RECYCLING OR DISPOSAL OF MATERIAL

1. Use existing excavated material on the project in accordance with Pennsylvania Code 408.

2. Use existing excavated material in a possible.

3. Dispose of excess or unsuitable material properly off site and maintain in accordance with the guidelines specified by Pennsylvania Code 408.

SEEDING AND MULCHING RECOMMENDATIONS

In accordance with Pennsylvania Code 408/2007, Sections 804 and 805, as follows:

FORMULA AND SPECIFICATIONS

| Species | S # by Weight | S # by Volume | M # | SEEDING RATE | PER 1000 SQ. FT.
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<tr>
<td>Formulas &amp; Temporary Seed</td>
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<tr>
<td>D. T. BRUSH (EXCEPT INCLUDING V. GUARD GROWTH 3X)</td>
<td>20</td>
<td>80</td>
<td>80</td>
<td>0.15</td>
<td>25.0 TOTAL</td>
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<td>80</td>
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SEEDING SCHEDULE

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PREPARED BY LARSON DESIGN GROUP

901 DAWN AVENUE
EMMAHRA, PA. 17322

EROSION AND SEDIMENT POLLUTION CONTROL PLAN

BOROUGH OF MEDIA

QUENTIN D. RISSER, P.E.

2011
Rock Construction Entrance

Inlet Filter Bag

Profile

Isometric View

Plan

Notes

1. Use a filter bag after each runoff event. Maintain as required to ensure proper functioning of the bag.
2. Replace filter bag if damaged or torn.
3. Provide filter bag if required by the municipality.
4. Use sandbags at the filter bag opening to prevent erosion.
5. Remove and properly dispose of inlet filter bag when no longer needed.

Prepared by

Larson Design Group
901 Dawn Avenue
Enniskillen, PA 17322

2011

Quentin O. Rissler, P.E.

Erosion and Sediment Pollution Control Plan
GENERAL NOTES

1. ASAHD/EPD BRIDGE DESIGN SPECIFICATIONS, 2004 AND AS SUPPLEMENTED BY THE DESIGN MANUAL, PART 4, SEPTEMBER 2007 EDITION.

2. PROVIDE MATERIALS AND PERFORM WORK IN ACCORDANCE WITH SPECIFICATIONS.

3. PROVIDE MATERIALS AND PERFORM WORK IN ACCORDANCE WITH SPECIFICATIONS, PUBLICATION 101.02.04, PART 4, 2007 EDITION. ALL MATERIALS AND WORK SHALL MEET THE REQUIREMENTS OF THE PROJECT AND THE NARRATIVE.

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THIRD STREET
BOROUGH OF MEDIA
DELAWARE COUNTY, PENNSYLVANIA
STA 11+00.00 TO STA 16+00.00 (LIMITS OF WORK)
TOTAL SHEETS 8

CROSS SECTIONS
STA 12+17.00 TO STA 15+05.00
SHEETS 2 THRU 8