SOIL EROSION AND SEDIMENT CONTROL NARRATIVE

STRUCTURAL MEASURES

1. STABLIZED CONSTRUCTION ENTRANCE: The Contractor shall construct a temporary stone apron at the designated entranceways to the site to limit mud tracking onto area roadways. It shall consist of ASTM C-33, size #20-3 crushed stone surface 30' wide x 50' long x 8" deep.

2. HAY BALE DAM: The Contractor shall construct a Hay Bale Dam around all stockpile areas. The Hay Bale Dam shall be constructed with the following provisions:
a. Bales shall be placed in a row with ends tightly abutting the adjacent bales.
b. Each bale shall be embedded in the soil a minimum of 4".
c. Bales shall be securely anchored in place by stakes, steel pickets, or rebars driven through the bales. The first stake in each bale shall be angled toward the previously laid bale.
d. Inspection shall be frequent and repair or replacement shall be made promptly as needed.
e. The sediment collected along the hay bales shall be periodically gathered and placed on the site.
f. Bales shall be removed when they have served their usefulness so as not to block or impeded storm flow or drainage.

3. SILT FENCE: A silt fence shall be constructed at locations shown on the Engineering Plan. Installation will be as follows:
a. Install fence posts 8' o.c. on a slight angle toward the anticipated runoff source.
b. Dig a 6" trench along the uphill side of the fence line.
c. Lay out silt fence fabric along post line.
d. Wrap fabric around the first post and tie securely with cord.
e. Take fabric to the next post and make at 1 ½" silt in the hem directly above the cord.
f. Repeat above step until last post is reached, wrap fabric around the post and secure with the cord.
g. Drape the lower 6" of fabric in the trench, curled up-hill.
h. Back fill trench.

4. LOW POINT INLET SEDIMENT FILTER: The Contractor shall construct low point inlet sediment filters at those locations on the Engineering Plan to prevent the transport of sediment into the stormwater management system and surface water bodies. The Inlet Sediment Filter shall consist of:
a. Hardware cloth or comparable wire mesh with ½" openings shall be placed over the curb inlet opening so that at least 12" of wire extends across the concrete gutter from the inlet opening.
b. Stone shall be piled against the wire so as to anchor it against the gutter and inlet cover and to cover the inlet opening completely. Two to three inches of course aggregate shall be used.
c. If the stone filter becomes clogged with sediment so that it no longer adequately performs its function, the stone must be pulled away from the inlet, cleaned and replaced.

NON-STRUCTURAL MEASURES

1. PERMANENT VEGETATION: Immediately following the completion of construction activities at the site, the Contractor shall stabilize with permanent vegetative cover all exposed and disturbed soils. Permanent vegetative cover shall be accomplished as specified below:

a. Topsoiling-The Contractor shall prepare areas to be stabilized with permanent vegetative cover by applying topsoil to a uniform depth of 4". Topsoil shall be friable and loamy and of good quality.
b. Seedbed Preparation-immediately following topsoiling the Contractor shall apply pulverized dolomitic limestone at the rate of 90 pounds per 1000 square feet and fertilizer (10-20-10) at the rate of 14 pounds per 1000 square feet. The lime and fertilizer shall then be worked into the soil to a depth of 4' with a disc springtooth harrow or other suitable equipment.
c. Seeding-Seed shall consist of 31% perennial ryegrass, 23% chewings red fescue, % Kentucky bluegrass, applied at the rate of 3 pounds per 1000 square feet.
d. Apply mulch uniformly by hand or mechanically. Mulch anchoring shall be accomplished immediately after placement through use of Peg and Twine method (or other approved method).
e. Seeding Dates: 2/15-5/1 or 8/15-1015. If seed is not planted within these dates, the Contractor shall stabilize with mulch.

2. TEMPORARY VEGETATIVE COVER
a. Prior to halting construction for periods longer than 60 days and during the off-season, the Contractor shall stabilize with temporary vegetative cover all exposed

b. Temporary stabilization shall be accomplished by the following methods and materials:
Materials Type Rate
lime pulverized dolomitic 90 lbs./1000sf
fertilizer 10-20-10 14 lbs./1000sf
seed annual ryegrass 3 lbs./1000sf

Materials
(1) Work lime and fertilizer into soil to a depth of 2" with a disc, springtooth harrow, or other suitable equipment.
(2) Apply seed at the given rate and firm with a roller or light drag.
(3) Apply mulch uniformity by hand or mechanically. Mulch anchoring shall be accomplished immediately after placement through use of Peg and Twine Method (or other approved method).
(4) Seed dates: 2/15-5/1 or 8/15-10/15. (May be planted throughout summer of soil moisture is adequate or can be irrigated). If seed is not planted within these dates, the Contractor shall stabilize with mulch.

3. STABILIZATION WITH MULCH ONLY: Apply unrotted straw or salt hay at the rate of 70lbs./1000 sf. It shall be anchored immediately through the use of Peg and Twine Method.

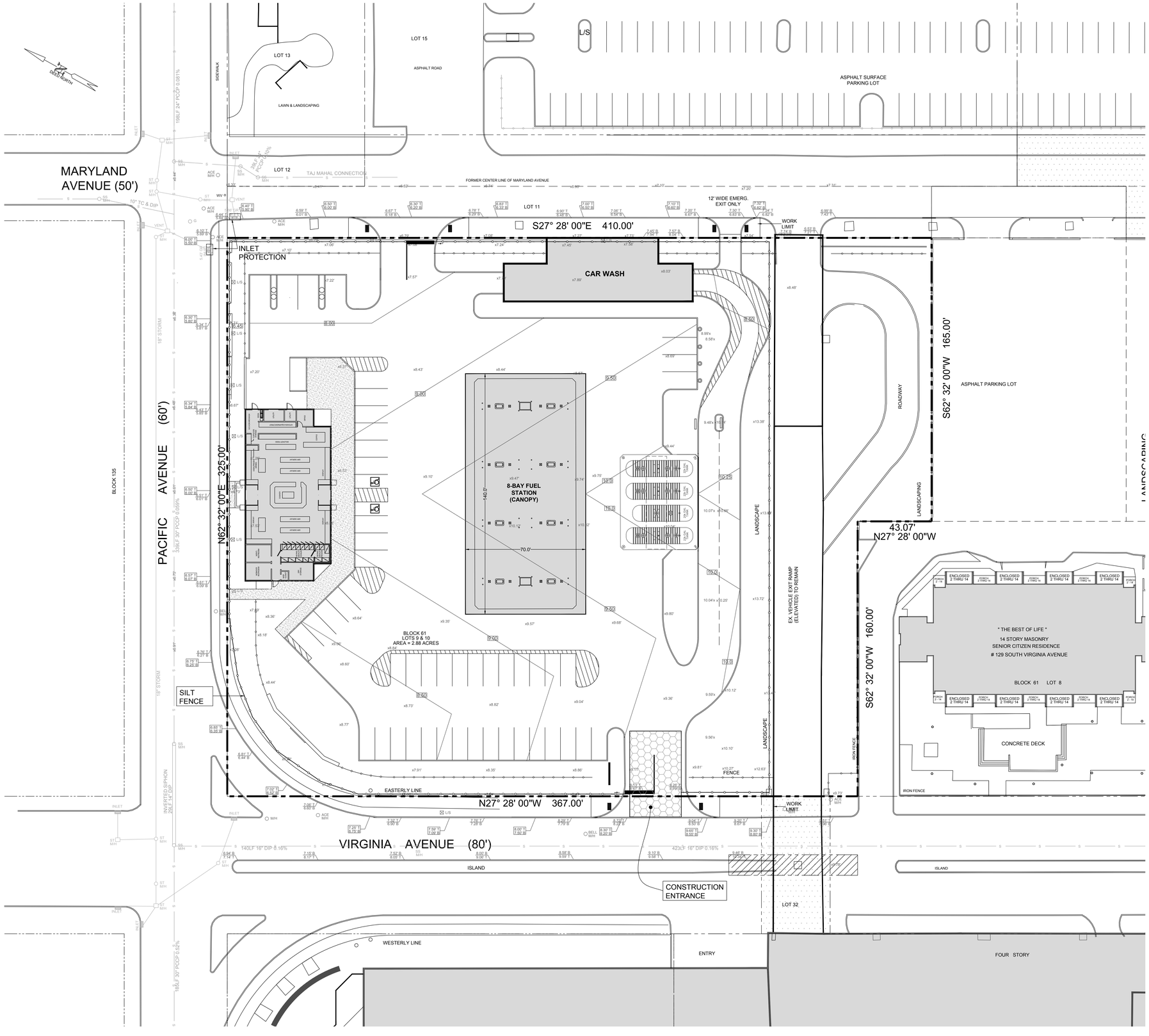
4. PEG AND TWINE METHOD OF MULCH ANCHORING: Drive 8-10" wooden pegs to within 2 to 3 inches of the soil surface every 4' in all directions. Stakes may be driven before or after applying mulch. Secure mulch to soil surface by stretching twine between pegs in a criss-cross and a square pattern. Secure twine around each peg with two or more turns.

5. DUST CONTROL: To control dust generation on-site, the Contractor shall wet constructions traffic routes and staging areas.

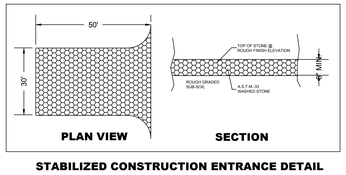
6. MAINTENANCE
a. Maintenance shall occur on a regular basis consistent with favorable plant growth, soils and climatic conditions.
b. When it becomes necessary, the Owner will inform the Contractor of unsatisfactory conditions of erosion and sediment devices, at such time the Contractor shall improve the conditions of said devices to meet with the approval of the Owner.
c. Should unforeseen erosive conditions develop during construction, the Contractor shall take steps to remedy such conditions and to prevent damage to adjacent properties as a result of increased runoff and/or sediment displacement.
d. Seeded areas that have been washed away shall be filled and graded as necessary and then reseeded. This procedure shall be repeated after each storm or until no more signs of erosion are evident.
e. The sediment collected along the temporary diversions shall be periodically gathered and placed back on the site.
f. Control measures shall apply to subsequent owners if title is conveyed.
g. Control measures shall apply to dwelling construction on individual lots. (g. shall apply only to projects where dwellings are being constructed)

7. GENERAL
a. Existing vegetative cover beyond the limits of construction shall be retained until final stabilization is complete.
b. The Contractor shall schedule and conduct his operations to minimize erosion of soils and to prevent silting and muddying of streams, rivers, irrigation systems and impoundments (lakes, reservoirs, etc.). Construction of drainage facilities and performance of their contract work which will contribute to the control of erosion and sedimentation shall be carried out in conjunction with earthwork operations or as soon thereafter as practicable.
c. When borrow material is obtained from other than commercially operated sources, erosion of the borrow site shall be so controlled both during and after completion of the work that erosion will be minimized and sediment will not enter streams or other bodies of water. Waste or disposal areas and construction roads shall be located and constructed in a manner that will keep sediment from entering streams.
d. When work areas are located in or adjacent to live streams, such areas shall be separated from the main stream by a dike or other barrier to keep sediment from entering a flowing stream.
e. Water from aggregate washing or other operation containing sediment shall be treated by filtration, a settling basin or other means sufficient to reduce the sediment content to not more than that of the stream into which it is discharged.
f. Pollutants such as fuels, lubricants, bitumens, raw sewerage and other harmful materials shall not be discharged into or near rivers, streams and impoundments or into natural or manmade channels leading thereto. Wash water or waste from concrete mixing operations shall not be allowed to enter live streams.

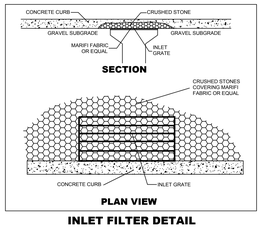
CONSTRUCTION SCHEDULE
1. Construct temporary soil erosion and sediment control measures.
2. Clearing and grubbing.
3. Install underground utilities and recharge basin. Establish permanent cover
4. Rough grade.
5. Construction of building.
6. Final grading.
7. Construct parking area and driveway.
8. Collect silt and sediment and place back on site.
9. Landscape treatment.



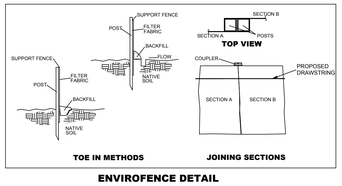
20 0 20 40 60
GRAPHIC SCALE IN FEET



STABILIZED CONSTRUCTION ENTRANCE DETAIL



INLET FILTER DETAIL



ENVIROFENCE DETAIL

MISCELLANEOUS:

1. A REPORT OF COMPLIANCE MUST BE OBTAINED FROM THE DISTRICT PRIOR TO RECEIVING A CERTIFICATE OF OCCUPANCY FROM THE MUNICIPALITY. A REQUEST FOR A DISTRICT INSPECTION FOR THE RELEASE OF A REPORT OF COMPLIANCE MUST BE MADE 5 WORKING DAYS IN ADVANCE. THIS APPLIES TO BOTH COMPLETE (FINAL) AND CONDITIONAL (TEMPORARY) CERTIFICATES.
2. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
3. THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR ANY EROSION OR SEDIMENTATION THAT MAY OCCUR BELOW STORWATER OUTFALLS OR OFFSITE AS A RESULT OF CONSTRUCTION OF THE PROJECT.

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ISSUE

CAFRA & NJCRDA SUBMISSION - 2017 12 01

REVISIONS

No.	Date	Description

DRAWING TITLE:
SOIL EROSION & SED. CONTROL PLAN

DRAWN BY: N. ZURINSKAS
SCALE: 1" = 20'
DATE: 2017 12 01
PROJECT NO.: 17013 33797 AWP
DRAWING NO.
C-25-004