

Weighted E Method

Activity Development Factor not accounting for detention basin

Basin	Area	Weighted E	Volume	Flow	Value
EXISTING	28000	0.00	0.00	0.00	0.00
CONSTRUCTION	28000	0.00	0.00	0.00	0.00
Total	56000	0.00	0.00	0.00	0.00

Weighted E = $E_{s1}A_1 + E_{s2}A_2 + E_{s3}A_3 + E_{s4}A_4$ (Total Area)

Flow = $Q_1A_1 + Q_2A_2 + Q_3A_3 + Q_4A_4$ (Total Area)

Where for 100-year 6-hour storm (Q=3)

E _{s1} = 0.05	Q ₁ = 1.57
E _{s2} = 0.76	Q ₂ = 2.28
E _{s3} = 1.13	Q ₃ = 3.14
E _{s4} = 3.2	Q ₄ = 4.7

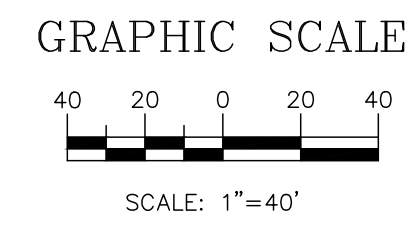
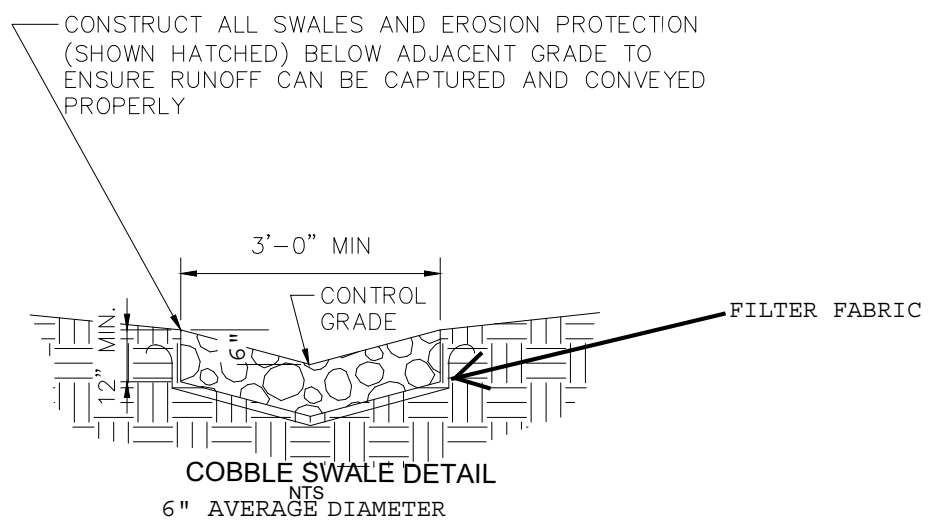
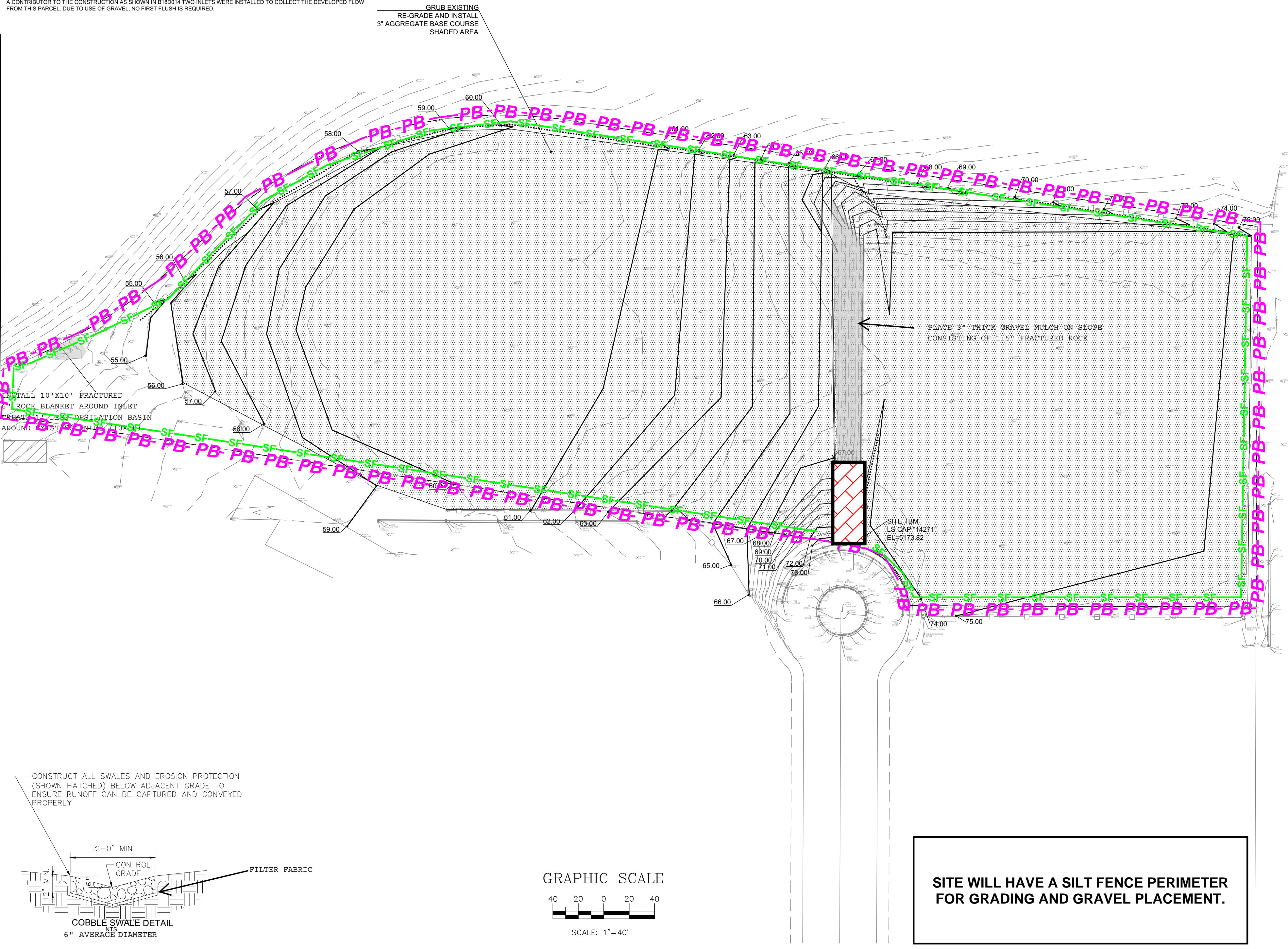
First flush requirement (ReDevelopment=0.2612 - New development=0.3412)

Volume = Weighted E * Total Area

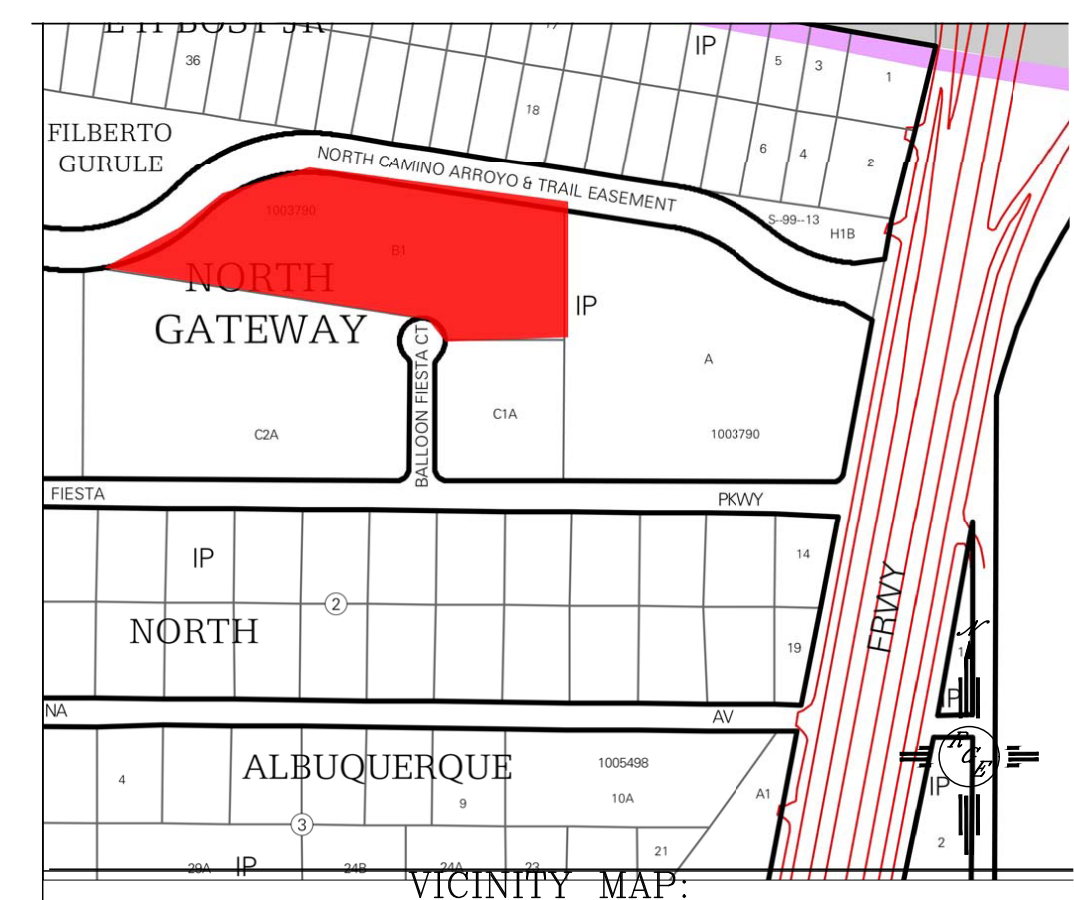
Flow = Q₁A₁ + Q₂A₂ + Q₃A₃ + Q₄A₄

Flow Rate = 0 CF

NARRATIVE
 THIS SITE IS A GRADED LOT. THE SITE WAS GRADED WITH THE AMAFCA CONSTRUCTION OF THE NORTH CAMINO ARROYO. THE OWNER WAS A CONTRIBUTOR TO THE CONSTRUCTION AS SHOWN IN B18004. TWO INLETS WERE INSTALLED TO COLLECT THE DEVELOPED FLOW FROM THIS PARCEL DUE TO USE OF GRAVEL. NO FIRST FLUSH IS REQUIRED.



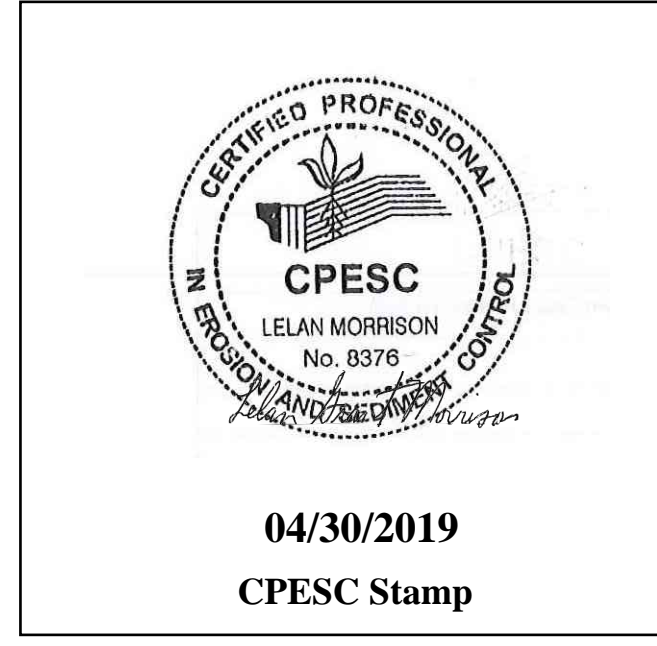
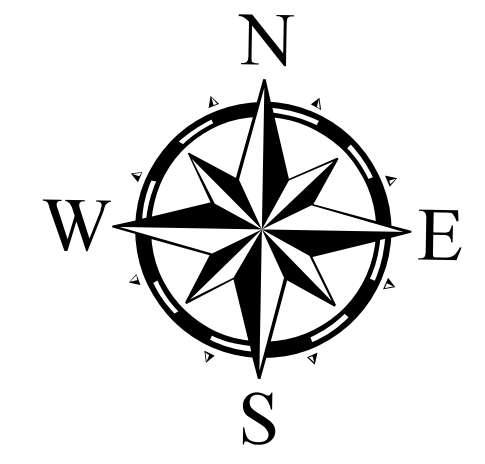
SITE WILL HAVE A SILT FENCE PERIMETER FOR GRADING AND GRAVEL PLACEMENT.



LEGEND

EROSION AND SEDIMENT CONTROL PLAN

- PB -PB -PB -PB** PROJECT PERIMETER & DISTURBED AREA
- SF - SF - SF** SILT FENCE
- MULCH SOCKS** (Symbol: Orange dashed line)
- FLOW DIRECTION** (Symbol: Arrow)
- STAGING AREA** (Symbol: Red diagonal hatching)
- STABILIZED CONSTRUCTION ENTRANCE** (Symbol: Red cross-hatching)
- TRASH RECEPTACLE** (Symbol: Green square)
- CHEMICAL TOILET** (Symbol: Red circle)
- CONCRETE WASHOUT** (Symbol: Blue diagonal hatching)
- RETENTION POND** (Symbol: Blue oval)
- RIP RAP** (Symbol: Red circles)
- CHECK DAM** (Symbol: Orange semi-circle)
- DROP INLET PROTECTION** (Symbol: Red square with X)
- OUTFALL** (Symbol: Circle with X)
- POSTING SIGN** (Symbol: Circle with S)
- PRESERVED VEGETATION** (Symbol: Green arrow pointing down)



TRACT B1 NORTH GATEWAY		PROJECT TITLE
ALBUQUERQUE, BERNALILLO COUNTY, NM		CITY, COUNTY, STATE
04/30/2019	DATE	
C. DURKIN	DRAWN BY	

Curb Storm Inlet Protection with Wattles



Inlet Filter Installation Instructions:



1. Remove sediment, debris, ice and snow from the inlet grate surface and surrounding area.

2. Verify fit by placing filter over inlet grate to ensure that Inlet Filter extends at least one inch beyond the front and both curb ends. The overlap slows water flow and starts filtering sediment and debris before water drops into the inlet.

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3. Position the mat. Place Inlet Filter on grate with the net side down, flush to the back edge and extending beyond the grate opening on the front and both sides. The zip ties attach Inlet Filter to the inlet grate cover WITHOUT LIFTING THE GRATE COVER.

4. The filter material covering the inlet can be any material that will prevent the sediment and other foreign matter from entering the

storm drain system.

Reinforced Silt Fence

Definition
A temporary barrier of Geotextile Class "F" over wire reinforcement used to intercept sediment laden runoff from small drainage areas.

Purpose
The purpose of silt fence is to reduce runoff where velocity and allow the deposition of transported sediment to occur. Limits imposed by ultraviolet light on the stability of the fabric will dictate the maximum period that the silt fence may be used.

- Silt fence provides a barrier that can collect and hold debris and soil, preventing the material from entering critical areas, streams, streets, etc.
- Silt fence can be used where the installation of a dike would destroy sensitive areas; woods, wetlands, etc.

Conditions where the Practice Applies
Silt Fence is limited to intercepting sheet flow runoff from limited distances according to slope. It provides filtering and velocity dissipation to promote gravity settling of sediment.

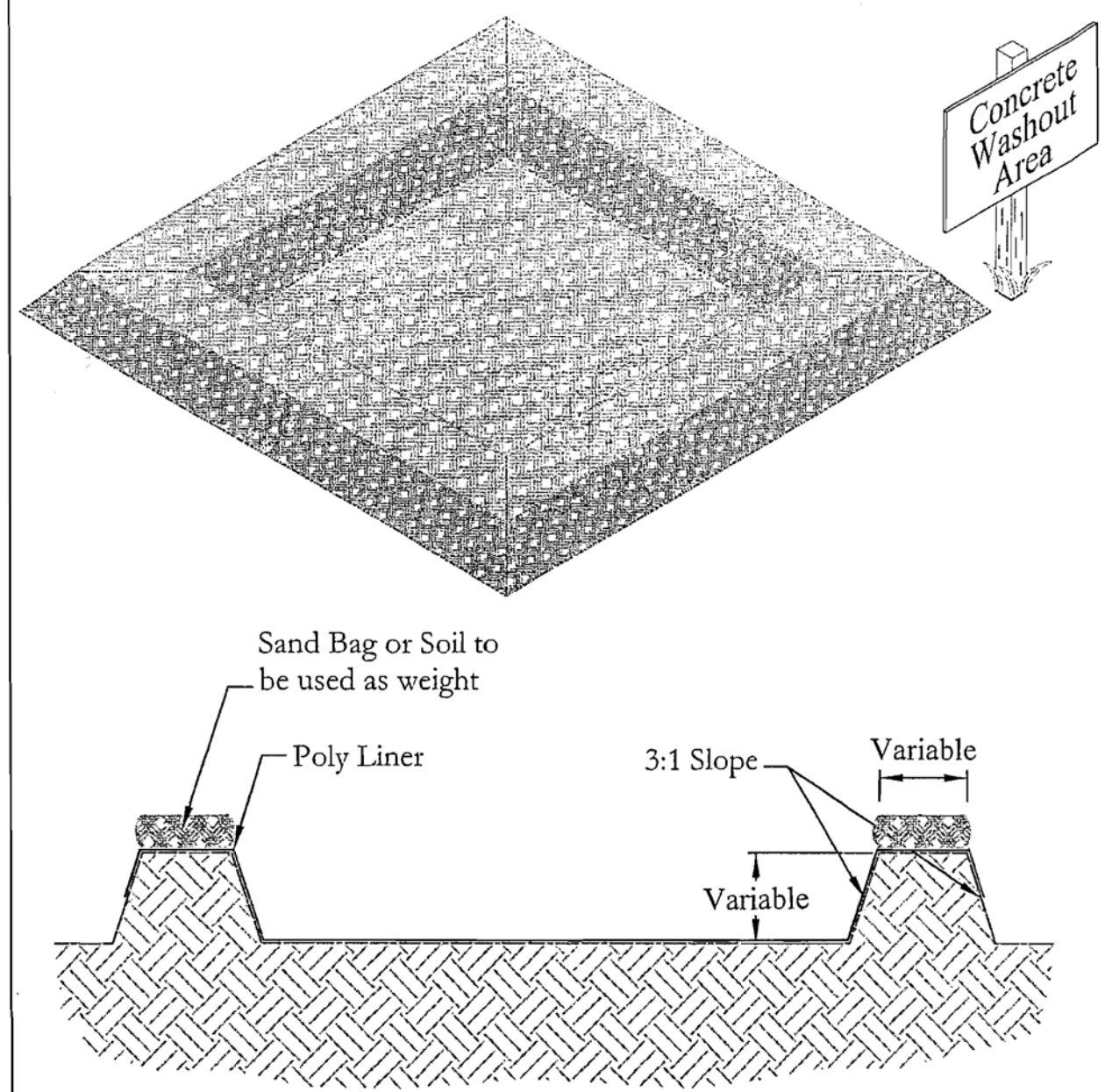
Design Criteria
Steel posts must be used. Silt fence should be placed as close to the contour as possible. No section of silt fence should exceed a grade of 5 percent for a distance more than 50 feet. Where ends of the geotextile fabric come together, the ends shall be overlapped, folded, and stapled to prevent sediment bypass. The length of the flow contributing to silt fence shall conform to the following limitations.

Slope (%)	Slope Steepness	Slope Length (Ft.) (Maximum)	Silt Fence Length (Ft.) (Maximum)
0-10	0-10:1	Unlimited	Unlimited
10-20	10:1-5:1	200	1,500
20-23	5:1-3:1	100	1,000
33-50	3:1-2:1	100	500
50 +	2:1 +	50	250

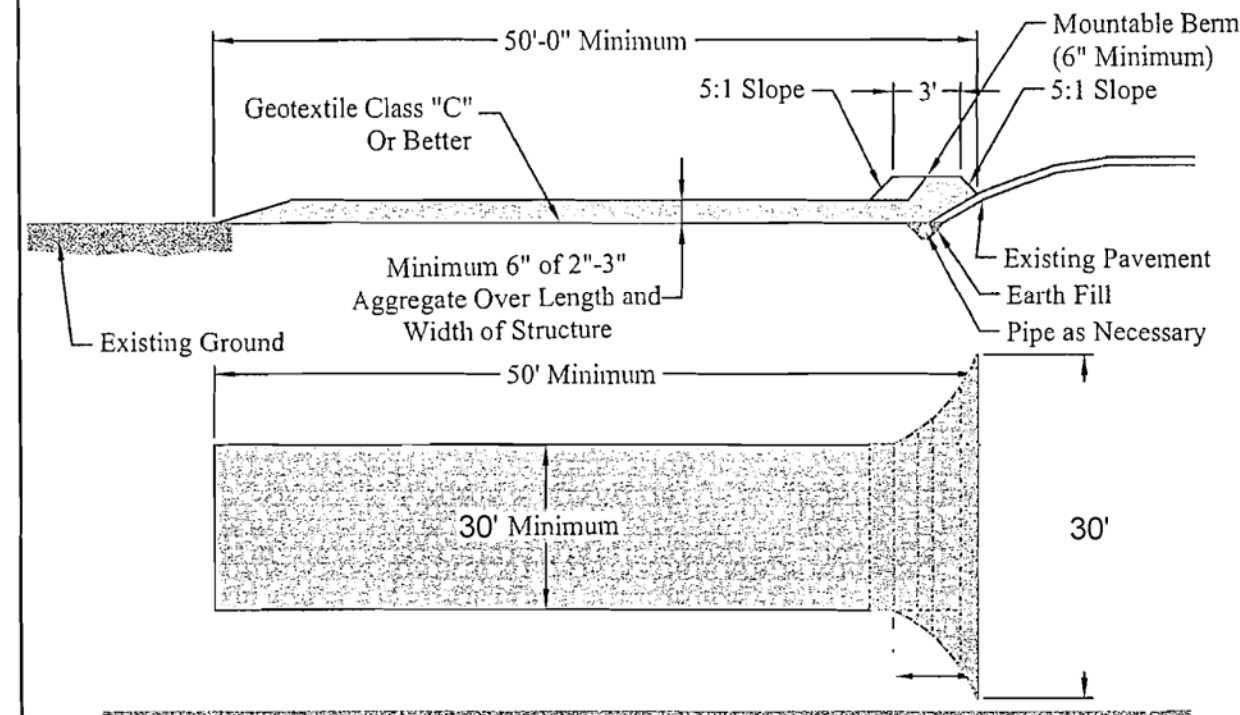
Erosion Control Notes

- All perimeter erosion and sediment control measures shall be installed prior to the execution of any grading work and maintained by the grading contractor for the duration of the grading project. Failure to install and maintain erosion control is a violation of State Law and subject to fine.
- The appropriate erosion control device(s) shall be installed prior to the inception of any land disturbing activity and shall be properly maintained for construction activities.
- All Erosion Control devices and their installation shall meet the standards prescribed in the current guidelines for storm water management for construction activities.
- Sediment collected behind the sediment filters and silt fences shall be removed when sediment reaches on third the height of the barrier.
- Inspection of erosion and sediment control and other protective measures are required once every 7 days from July 1st to October 31st and once every 14 days from November 1st to June 30th and after a precipitation event of ¼ inch or greater until the site is considered stabilized by the City. Inspection reports are to be kept by the person or entity authorized to direct construction activities on the site
- Construction Site Entrance: The contractor shall construct as a minimum one stabilized construction entrance at the location shown on the plans. If additional ingress and egress to the construction site is required, the contractor shall coordinate with the construction manager the location of these additional stabilized construction entrances. Usage of non-stabilized for ingress and egress will not be permitted. The stabilized entrances shall be maintained in a condition which will prevent tracking or flowing of sediment onto public right-of-way and paved driving lanes. This may require periodic top dressing with additional stone as conditions warrant. Repair of the entrances or cleaning of the right-of-way and paved driving lanes that have been soiled shall be performed by the contractor at his own expense satisfactory to the construction manager. When necessary, vehicle wheels and tires shall be cleaned to remove sediment prior to entering onto public right-of-way and public streets. When washing is required, it shall be done on an area stabilized with crushed stone.
- The contractor shall at his own expense, periodically water the site to control dust.
- Sedimentation and erosion control measures shall be removed following construction or upon permanent stabilization of the disturbed and graded areas, whichever occurs last.
- All disturbed areas that are not to be paved shall be re-seeded unless noted otherwise.
- The contractor shall keep the site clean at all times and control dust resulting from the earthwork operation. The contractor shall not track mud onto the public streets.

Concrete Washout Area
For use in High Water Table Areas



Stabilized Construction Entrance



Definition
A stabilized layer of aggregate that is underlain with Geotextile Class "C" (See Standards for Geotextile). Stabilized entrances are located at any point where traffic enters or leaves a construction site.

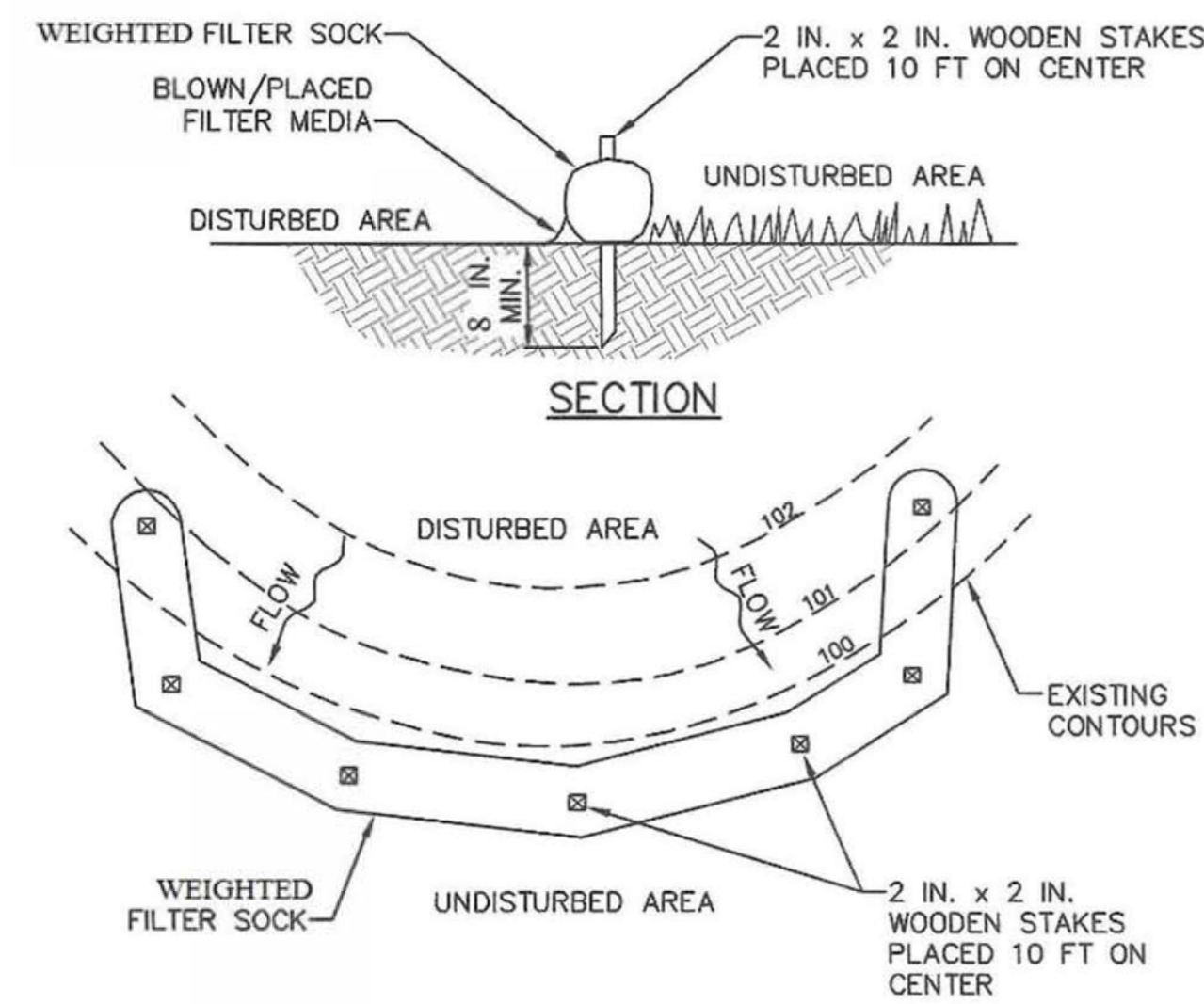
Purpose
The purpose of the stabilized construction entrance is to reduce tracking of sediment onto streets or public rights-of-way and provide a stable area for entrance or exit from the construction site.

Conditions where the Practice Applies

- Stabilized construction entrances shall be located at points of construction ingress and egress.
- For single family residences, the entrance should be located at the permanent driveway.
- Stabilized construction entrances should not be used on existing pavement.

Design Criteria

- Length - Minimum of 50'-0"
- Width - Minimum of 30'-0", should be flared at the existing road to provide a turning radius.
- Geotextile Class "C" shall be placed over the existing ground prior to placing stone. The Plan approval authority may not require geotextile fabric for single family residence.
- Stone-crushed aggregate 2"-3" (See Standards for Geotextile and Rock). Recycled concrete equivalent may be used also. The rock should be placed at least 6" deep over the length and width of the entrance.
- Surface Water - All the surface water flowing to or diverted toward construction entrances shall be piped under the entrance to maintain positive drainage. Pipe installed under the construction entrance shall be protected with a mountable berm. The pipe shall be sized according to the drainage, with the minimum diameter being 6".
- Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.



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