

DE-WATERING ACTIVITIES AND USE OF PUMPS

Any pumped discharge from an excavation or disturbed area shall be routed through an appropriately sized sediment basin, silt filter bag or shall be treated equivalently with suitable BMP's. The contractor shall ensure the post BMP treated discharge is sheet flowing. Failure to create sheet flow will obligate the contractor to perform water quality sampling of their pumped discharges. The contractor shall prepare sampling plans in accordance with the current GARI00002 NPDES permit by utilizing a Certified Design Professional. No separate payment will be made for water quality sampling of pump discharges.

OTHER CONTROLS

The Contractor shall follow this ESPCP and ensure and demonstrate that their Plan is in compliance with applicable State and/or local waste disposal, sanitary sewer or septic system regulations.

Off-site vehicle tracking of dirt, soils and sediments and the generation of dust shall be minimized or eliminated to the maximum extent practical. The Plan shall include the best management practice to be implemented at the site or construction activity.

The Contractor shall control dust from the site in accordance with Section 161 of the current edition of the Department's Specifications.

SEDIMENT STORAGE

The site has a total disturbed area of 1.06 acres. The following table summarizes the required and available sediment storage for every outfall on this project. The Contractor shall provide and maintain the storage volumes for the BMP's specified in this table.

Silt fence cannot be used to store sediment. The use of basins, sediment traps and other similar BMP's in accordance with State Law are required.

Outfall ID	Total Drainage Area (acres)	Disturbed Area (acres)	Required Sediment Storage Volume (yd ³)	Total Storage Volume Provided (yd ³)	BMP's Used for Sediment Storage		
					Description	# of devices	Storage Volume per Device (yd ³)
301+45, 20.01' LT	0.68	0.02	45.56	4.47	Type A Silt Fence (Back Curb)	137 LF	0.01
					Inlet Sediment Trap	1	3.10
317+46, 16.49' LT	0.17	0.03	11.39	7.02	Type A Silt Fence (Back Curb)	392 LF	0.01
					Inlet Sediment Trap	1	3.10
Misc. Unconcentrated Disturbed Sheetflow	1.46	1.01	97.82	149.43	Type A Silt Fence (Back Curb)	1153 LF	0.01
					Type A Silt Fence (Back Fill)	2758 LF	0.05

Outfall ID 301+45, 317+46, and Misc. Unconcentrated Disturbed Sheetflow: The sediment runoff in this area occurs as a result of the installation of sidewalk, curb and gutter, and islands. The use of a sediment basin was explored in order to provide the full amount of storage required. However, in addition to difficulties associated with property impacts, the impacts to mature trees and the environmental disturbances associated with the installation, maintenance, and removal of a sediment basin in this location would outweigh the benefits of using it. An inlet sediment trap and additional silt fence along the back of curb will be provided to minimize the sediment that enters the existing roadway. If installed and maintained properly, these measures will prevent sediment runoff from the site. In addition, soil matting is provided to minimize slope erosion.

In order to prevent runoff from bypassing inlet sediment traps, a temporary sump shall be installed around all inlet sediment traps that are not located in a low point or an excavated sump. Construct temporary sumps in accordance with Construction Detail D-24C. Temporary sumps shall be installed in a manner that ensures stormwater does not bypass the inlet. The Contractor may submit alternate temporary containment berm designs to the Project Engineer for approval.

USE OF ALTERNATIVE AND/OR ADDITIONAL BMP'S:

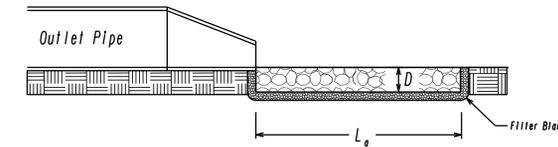
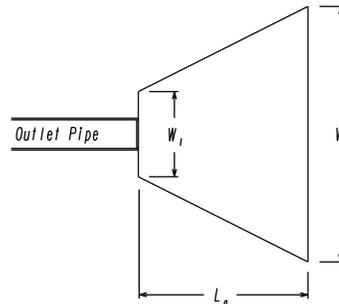
No alternative or additional BMP's will be used on this project.

DISCHARGES INTO, OR WITHIN ONE LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS, ANY PORTION OF A BIOTA IMPAIRED STREAM SEGMENT

All outfalls are either located further than 1 linear mile upstream or outside of the watershed of an Impaired Stream Segment that has been listed for criteria violated, "Bio F" (Impaired Fish Community) and/or "Bio M" (Impaired Macro invertebrate Community), within Category 4a, 4b or 5, and the potential cause is either "NP" (nonpoint source) or "UR" (urban runoff).

The following table summarizes the required outlet protection at each project outfall where protection is necessary. Outlet protection is to be placed in accordance with this table and the diagram shown below.

Outfall ID	Outlet Diam. (D _o)	Q ₂₅ (cfs)	V ₂₅ (fps)	Tailwater Condition (less or greater than 0.5D)	L _o	W ₁	W ₂	d ₅₀	D
306+93, 56.16' LT	18"	7.47	6.47	less than 0.5D	9.5'	4.5'	9.9'	0.5'	0.8'
317+46, 16.49' LT	N/A	1.31	7.02	less than 0.5D	6'	6'	6'	0.5'	0.8'



STREAM BUFFER ENCROACHMENT

Stream buffers are not impacted by this project. The contractor is not authorized to enter into stream buffers.

REVISION DATES
