H Y D R O L O G Y N O T E S

OVERALL HYDROLOGY PLAN:

THIS SITE IS LOCATED ON THE ZONE ATLAS MAP G-14-Z AND IS ZONED RA-2. THE PROPERTY IS BOUNDED ON THE WEST BY ALVARADO GARDENS, UNIT NO. 2, ON THE EAST BY CAMPBELL ESTATES, ON THE NORTH BY CAMPBELL ROAD, AND ON THE SOUTH BY THOMAS VILLAGE ESTATES PHASE II. THE PROJECT PROPOSES TO USE DRAINAGE PATTERNS THAT WILL DIRECT RUNOFF TO A DETENTION POND LOCATED ALONG THE EAST SIDE OF THE PROJECT SITE. THIS DRAINAGE POND WILL RETAIN THE REQUIRED FIRST FLUSH VOLUME.

THE SITE WILL BE GRADED TO DIRECT FLOWS TO THE OPEN SPACE POND EAST OF THE SITE. THE POND HAS BEEN SIZED TO HOLD THE 100 YEAR 10 DAY STORM EVENT. FRENCH DRAINS WILL BE INSTALLED TO ALLOW FOR INFILTRATION OF THE COLLECTED WATER.

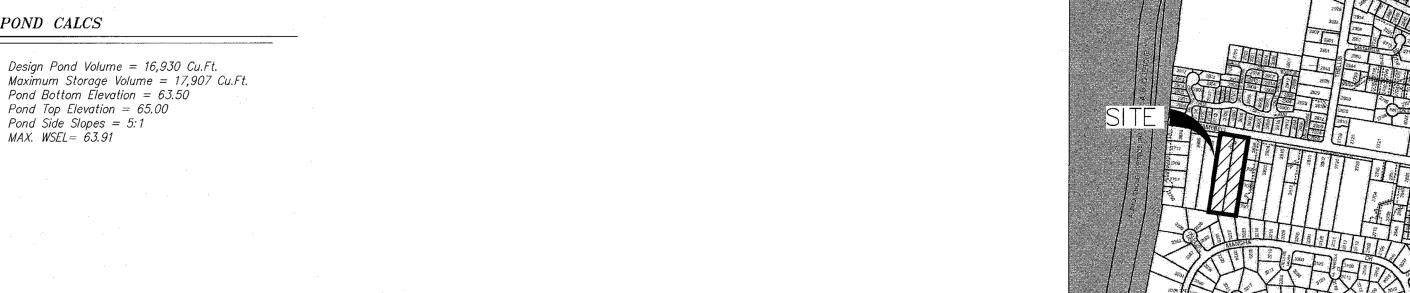
THERE ARE NO OFFSITE FLOWS ENTERING THE SITE.

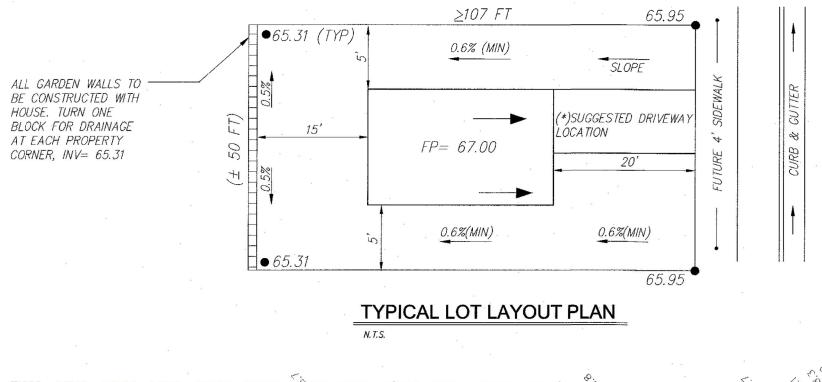
THE SITE IS NOT WITHIN THE 100 YEAR FLOOD PLAIN.

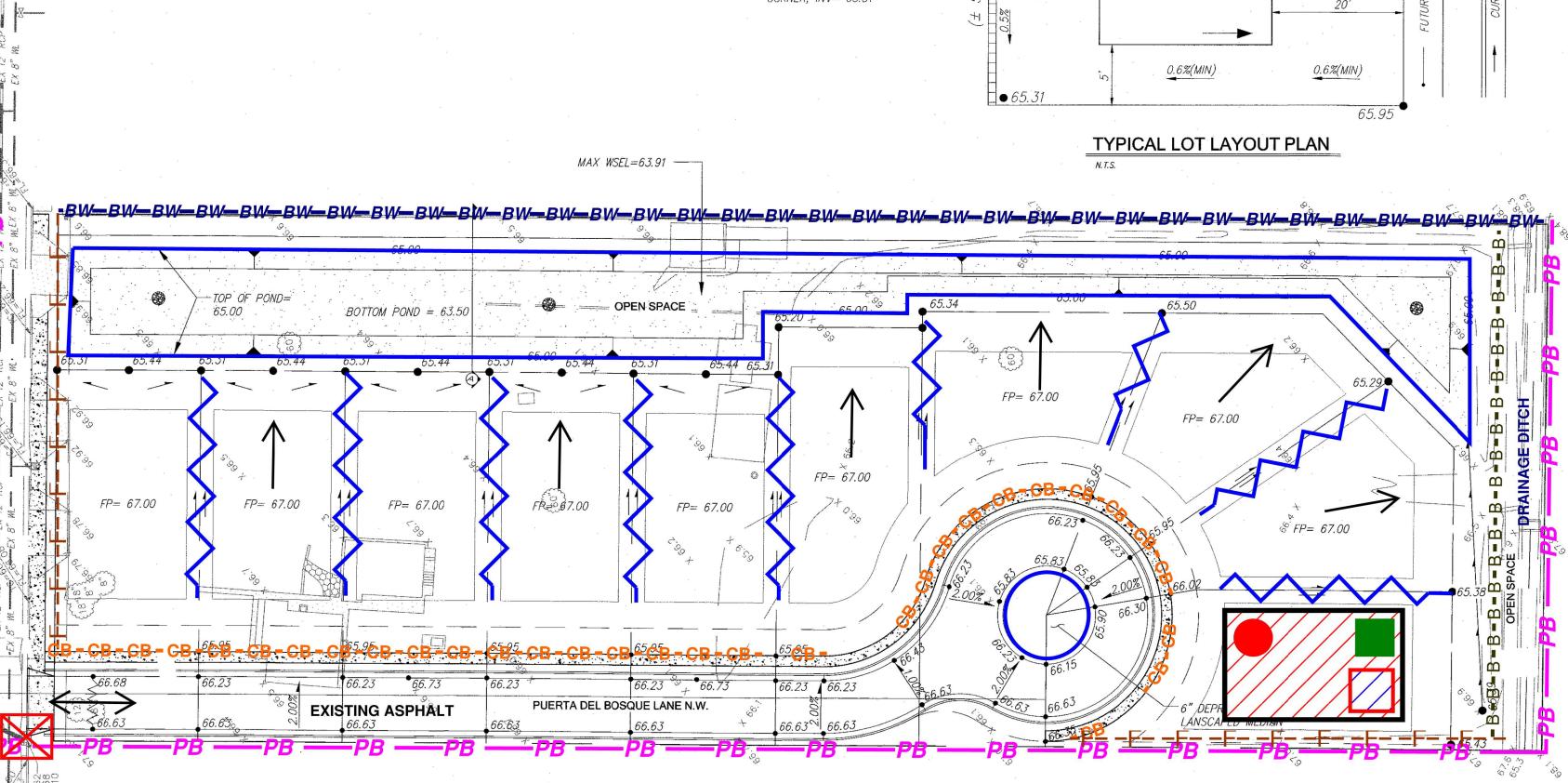
THE HYDROLOGY FOR THE PROJECT SITE WAS CALCULATED USING AHYMO FOR THE 100 YEAR 6 HOUR STORM EVENT FOR ZONE 2. THE RESULTS ARE SUMMARIZED BELOW:

<u>DEVELOPED CONDITIONS:</u> SITE AREA = 2.6 ACRES

LAND TREATMENTS: A=0%, B=20%, C=30%, D=50%. TOTAL PROJECT SITE: Q=8.83cfs V=0.3071 AC-FT

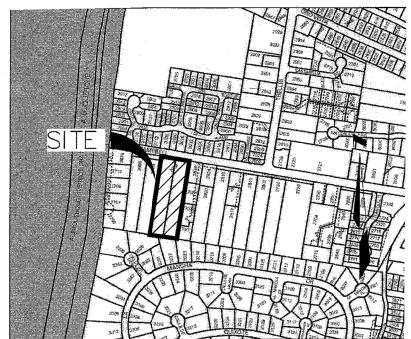






POND CALCS

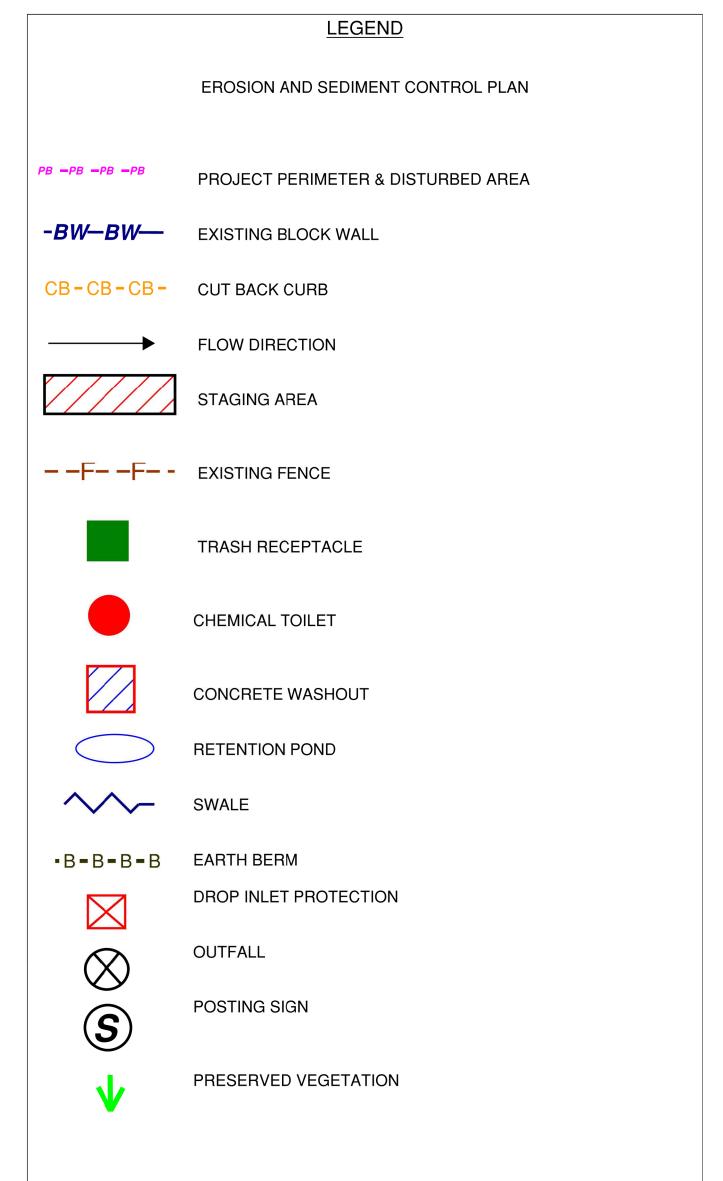
MAX. WSEL = 63.91

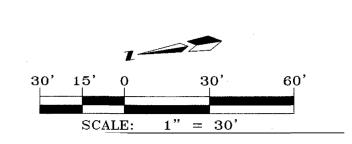


VICINITY MAP ZONE ATLAS MAP G-14-Z

LEGAL DESCRIPTION

LOTS 15—A AND 16—A, ALVARADO GARDENS UNIT No. 2 CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO





RECEIVING WATERS: RIO GRANDE RIVER- 2105_50 TIER II AND IMPAIRED

CRITERION "C"; RIO GRANDE SILVERY MINNOW AND YELLOW BILLED CUCKOO HABITATS ARE 2.0 MILES

DOWNSTREAM.

GPS LOCATION: **35.1223**, **-106.6851**



2/7/18

PUERTA DEL BOSQUE

PROJECT TITLE

ALBUQUERQUE, BERNALILLO COUNTY, NM

CITY, COUNTY, STATE

02/06/18 DATE

Engineer Stamp

C. DURKIN DRAWN BY Inspections Plus, Inc.

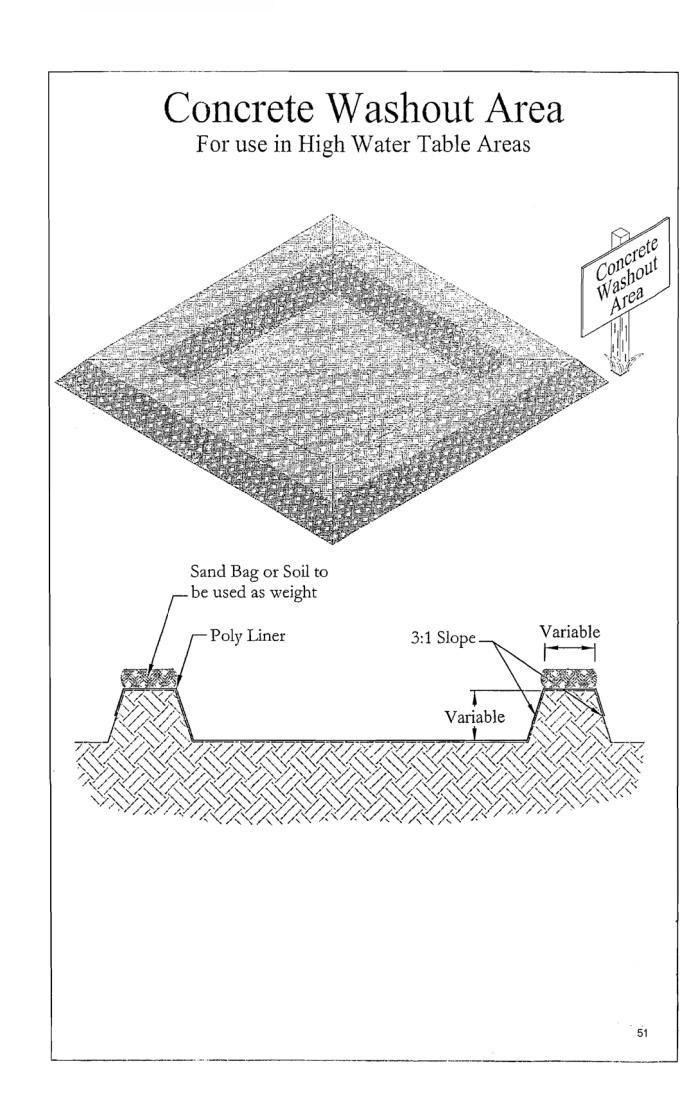
Curb Storm Inlet Protection with Wattles











Inlet Filter Installation Instructions:



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

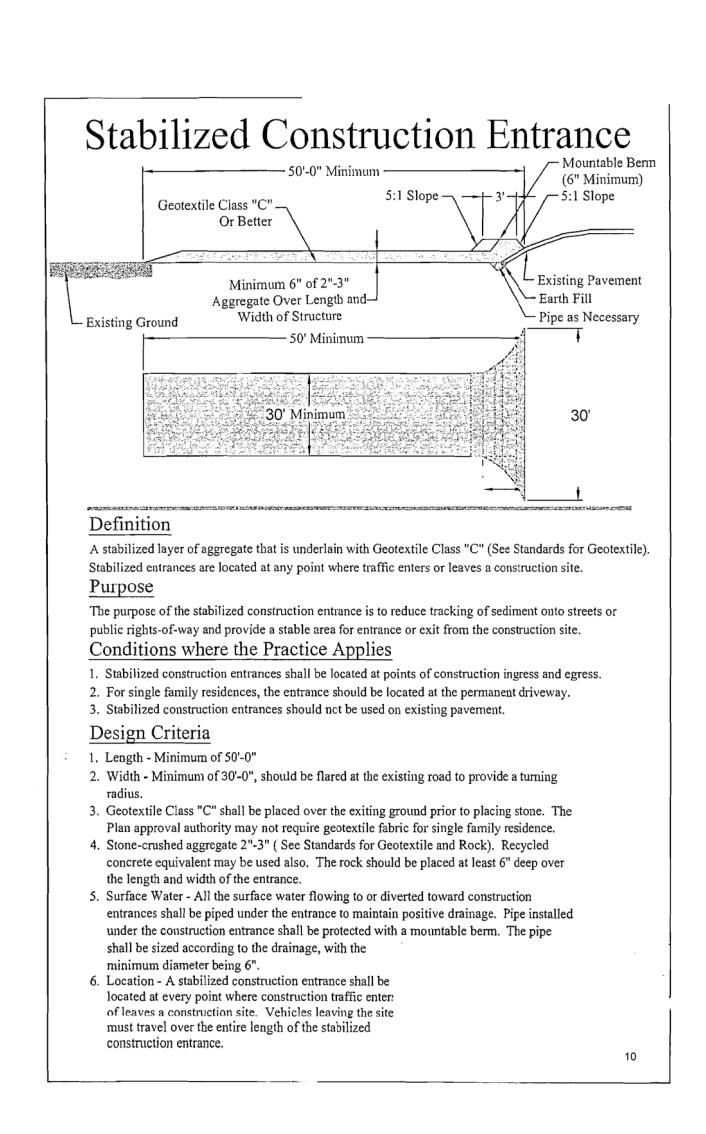
2. Verify fit by placing filter over inlet grate to ensure that Inlet Filter extends at least one inch beyond the front and both curb ends. The overlap slows water

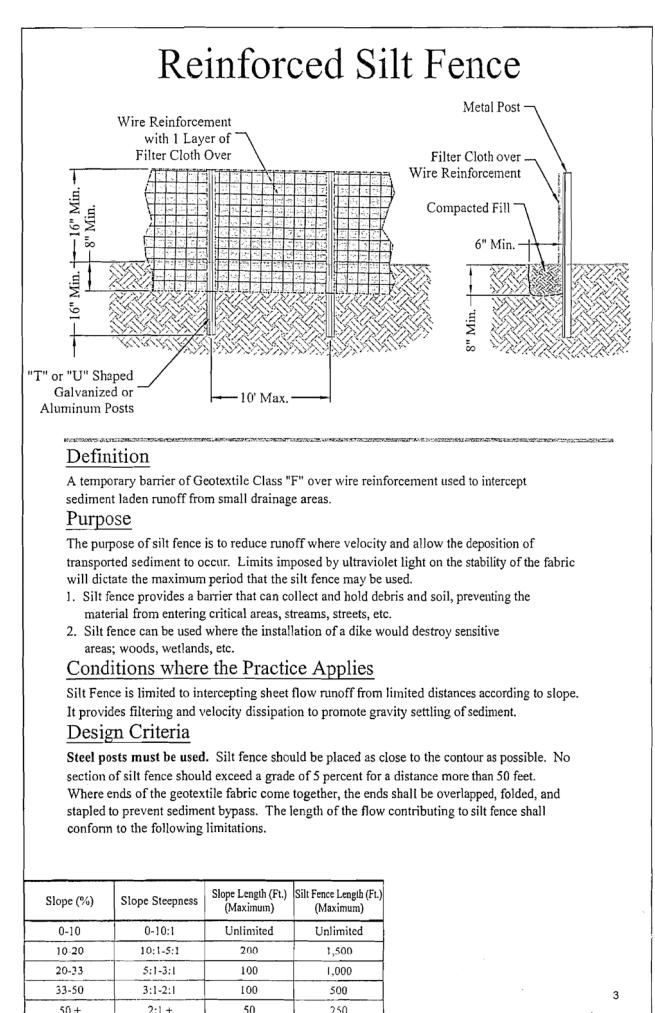
flow and starts filtering sediment and debris before water drops into the inlet.

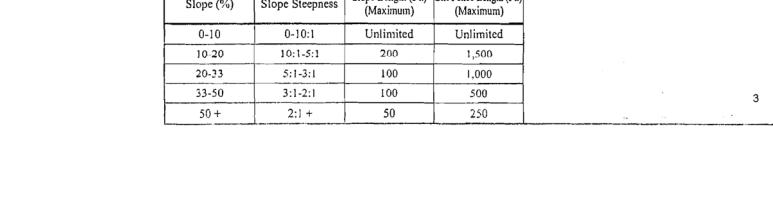


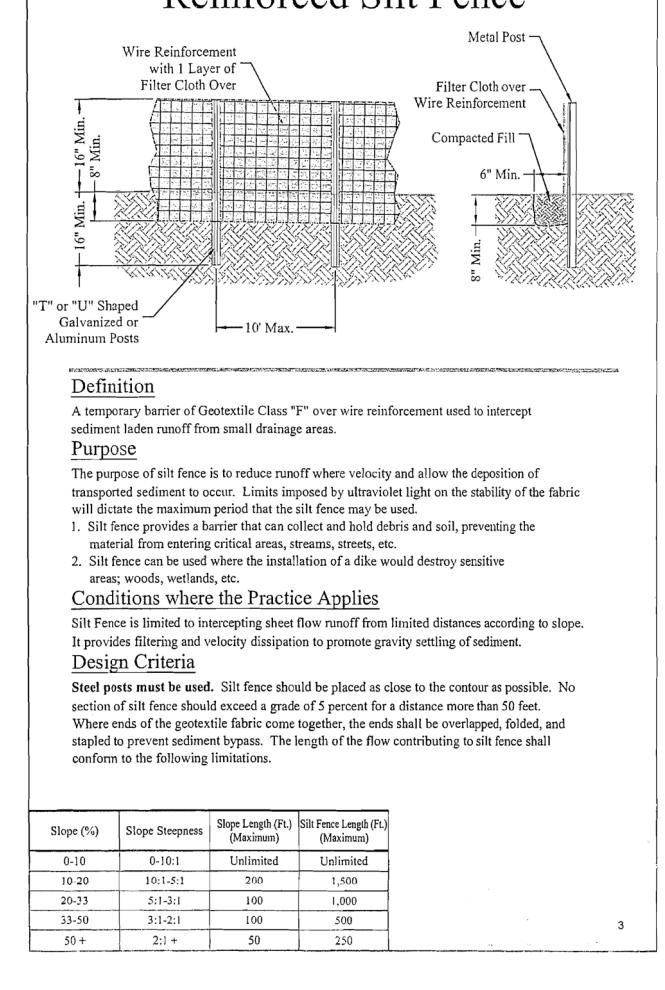
3. Position the mat. Place Inlet Filter on grate with the net side down, flush to the back edge and extending beyond the grate opening on the front and both sides. The zip ties attach Inlet Filter to the inlet grate cover WITHOUT LIFTING THE GRATE COVER.

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



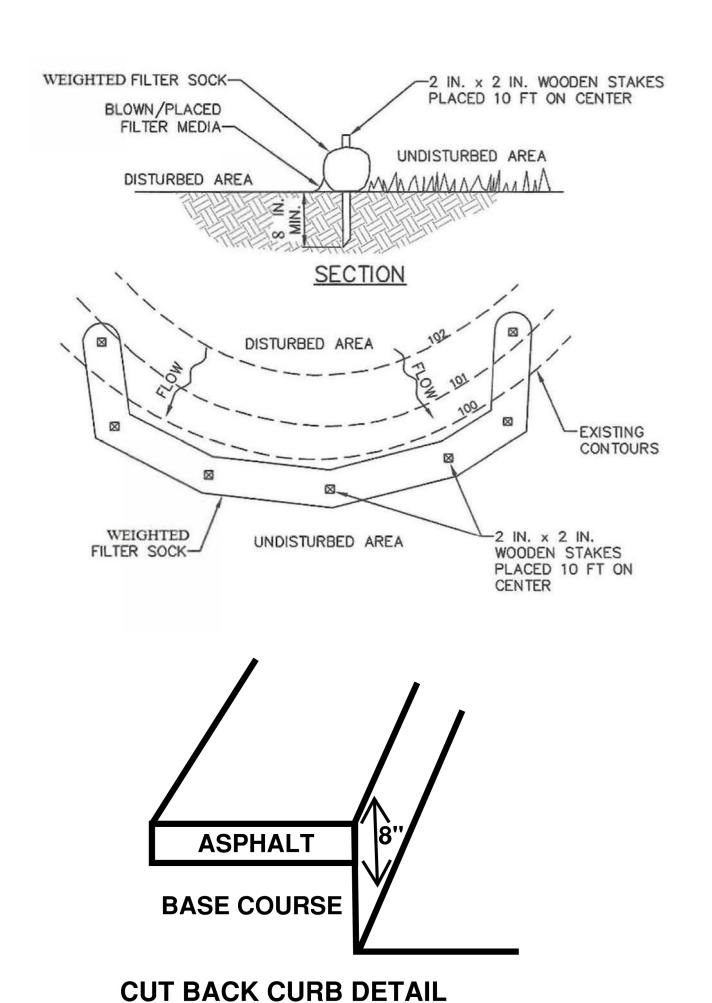






Erosion Control Notes

- 1. 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.
- 2. The appropriate erosion control devise(s) shall be installed prior to the inception of any land disturbing activity and shall be properly maintained for construction activities.
- 3. All Erosion Control devices and their installation shall meet the standards prescribed in the current guidelines for storm water management for construction activities.
- 4. Sediment collected behind the sediment filters and silt fences shall be removed when sediment reaches on third the height of the barrier.
- 5. 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
- 6. 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.
- 7. The contractor shall at his own expense, periodically water the site to control dust.
- 8. Sedimentation and erosion control measures shall be removed following construction or upon permanent stabilization of the disturbed and graded areas, whichever occurs last.
- 9. All disturbed areas that are not to be paved shall be re-seeded unless noted otherwise.
- 10. The contractor shall deep the site clean at all times and control dust resulting from the earthwork operation. The contractor shall not track mud onto the public streets.





Engineer Stamp

CRITERION "C"; RIO GRANDE SILVERY MINNOW AND CRITICAL HABITAT YELLOW BILLED CUCKOO HABITATS ARE 2.0 MILES DOWNSTREAM. GPS LOCATION: **35.1223, -106.6851** PUERTA DEL BOSQUE PROJECT TITLE ALBUQUERQUE, BERNALILLO COUNTY, NM

RECEIVING WATERS: RIO GRANDE RIVER- 2105_50 TIER II AND IMPAIRED

02/06/18 DATE C. DURKIN DRAWN BY

Inspections Plus, Inc.

CITY, COUNTY, STATE