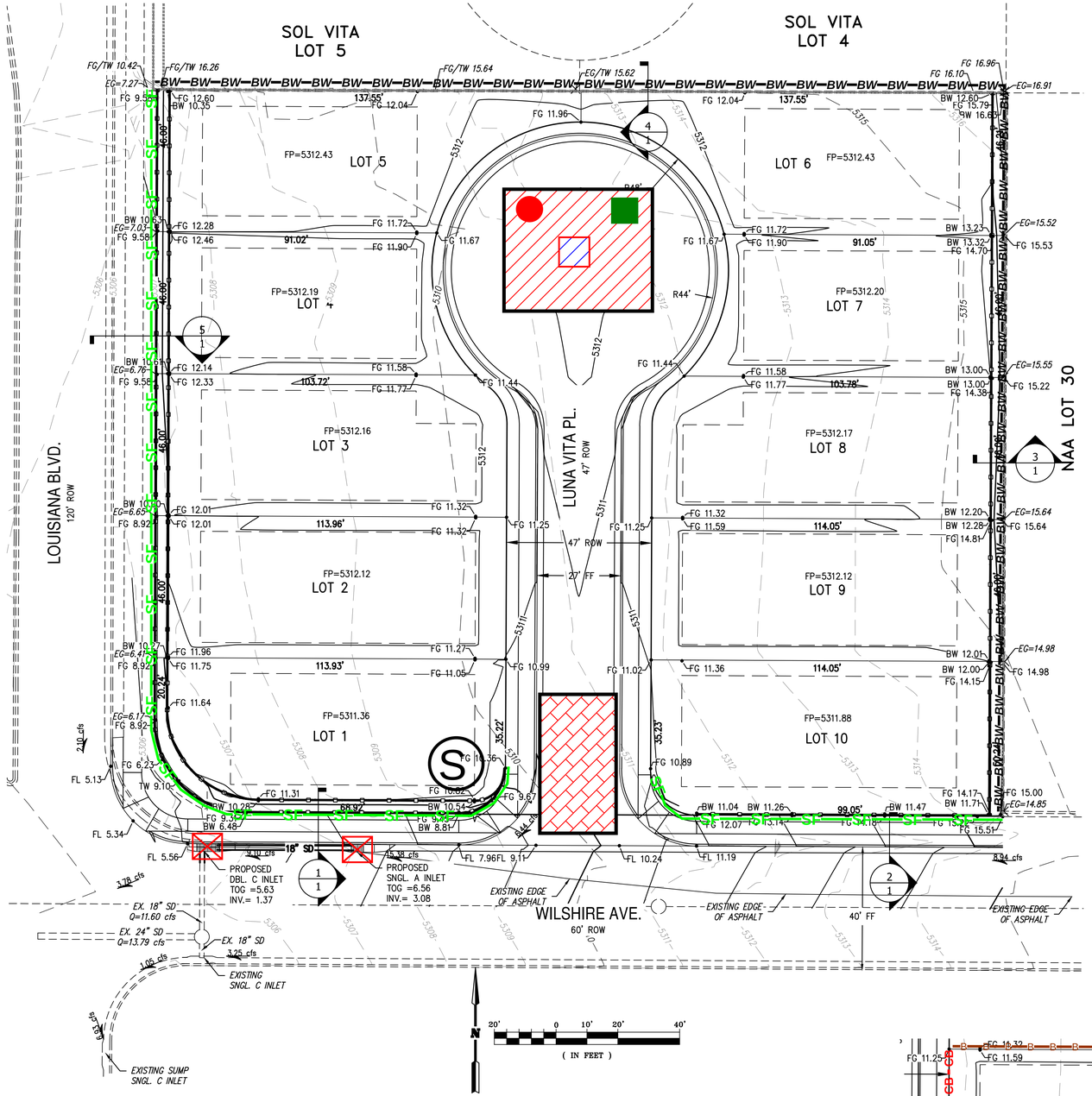
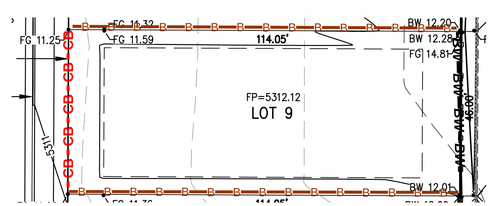
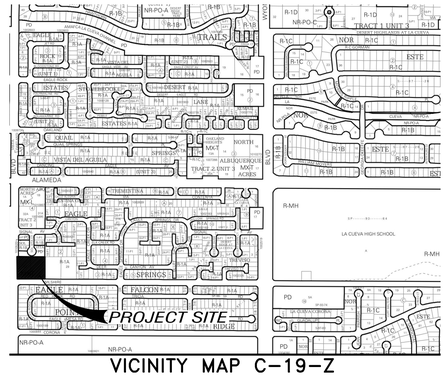


SITE WILL HAVE PERIMETER CONTROLS INCLUDING SILT FENCE ON THE SOUTH AND WEST AREAS OF THE SITE. THERE IS AN EXISTING BLOCK WALL ON THE NORTH AND EAST AREAS OF THE SITE. INLETS WILL PROTECTED ONCE ACTIVE. STAGING AREA IS REPRESENTATIVE AND MAY BE MOVED TO ACCOMODATE PROJECT.



TYPICAL LOT TEMPORARY STABLIZATION



VICINITY MAP C-19-Z

DRAINAGE INFORMATION

LOCATION & DESCRIPTION

THE PROPOSED SITE IS 1.48 ACRES LOCATED ON THE SOUTH SIDE OF WILSHIRE AVENUE EAST OF LOUISIANA BLVD. AS SEEN ON THE VICINITY MAP. THE SITE IS UNDEVELOPED. THE ADJACENT PROPERTIES TO THE EAST AND WET ARE DEVELOPED HIGHER DENSITY WALLED COMMUNITIES. THE PROPOSED DEVELOPMENT WILL BE TEN (10) SINGLE FAMILY RESIDENTIAL LOTS ON A CUL-DE-SAC.

FLOODPLAIN STATUS

THIS PROJECT, AS SHOWN ON FEMA'S FLOOD INSURANCE RATE MAP 35001C0137H, DATED AUGUST, 2012 IS NOT WITHIN A DESIGNATED 100-YEAR FLOODPLAIN. AN EXHIBIT WITH THE SITE SHOWN ON THE FIRM PANEL IS INCLUDED ON THIS SHEET.

METHODOLOGY

THE HYDROLOGY FOR THIS PROJECT WAS ANALYZED USING AHYMO SOFTWARE.

PRECIPITATION

THE 100-YR 6-HR DURATION STORM WAS USED AS THE DESIGN STORM FOR THIS ANALYSIS. THIS SITE IS WITHIN ZONE 3 AS IDENTIFIED IN THE CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL, SECTION 22.2.

EXISTING DRAINAGE

THE ALLOWABLE FLOWS IN THE STORM DRAIN IS TAKEN FROM THE REFERENCED PROJECT AND EXISTING FLOWS ARE FROM ADJACENT DRAINAGE PLANS C19D021 AND C19D026. THE STORM DRAIN COMPLETED WITH COA PROJECT #600481 COMPLETES THE DOWNSTREAM FACILITIES AND ALLOWS FOR A INLET CAPTURE OF 20.3 CFS FROM WILSHIRE AVE. OF WHICH, 17.1 CFS IS ALLOCATED TO THE NORTH INLETS. THIS SITE DRAINS SURFACE DRAINS TO THE EXISTING CURB AND GUTTER AND INLET IN WILSHIRE AVE.

DEVELOPED CONDITION

THIS SITE WILL BE DEVELOPED WITH A SINGLE STREET INTERCEPTING ALL OF THE SITE RUNOFF. THE RUNOFF WILL FREE DISCHARGE INTO WILSHIRE AVENUE. WILSHIRE AVENUE WILL CONVEY FLOW ALONG THE CURB TO THE PROPOSED INLETS LOCATED IN WILSHIRE AVENUE. WITH A FLOW DEPTH OF 0.30 FT THE CAPACITY OF THE 3 GRATES OF THE PROPOSED INLETS IS 11.6 CFS WITH AN ADDITIONAL 2.2 CFS IN THE EXISTING INLET FOR A TOTAL OF 13.8 CFS. PER C19-D21 EAGLE POINT, THE REMAINING FLOW IS ALLOWED TO BYPASS TO THE INLET IN LOUISIANA BLVD. PER C19-D21 THIS INLET WAS TO CAPTURE 6.22 CFS FROM WILSHIRE AVE. THE PROPOSED FLOW FROM WILSHIRE AVE. IS 4.83 CFS. THE [RP[PSED 6.4 CFS DISHARGE FROM THE SITE, FOR THE 100-YEAR PEAK RUNOFF, DUE TO THIS DEVELOPMENT CAN BE ACCOMMODATED BY THE STORM DRAIN AND DOWNSTREAM FACILITIES.

HYDROLOGIC DATA – NAADMP

BASINS	AREA (acres)	LAND TREATMENT PERCENTAGES BY TYPE				YIELD (cfs/ac)	Q_{100} (cfs)	V_{100-24} (acft)
		A	B	C	D			
SITE	1.48	0	34	16	50	3.17	4.68	0.164
WILSHIRE	0.73	0	0	10	90	4.59	6.70	0.153

HYDROLOGIC DATA – PROPOSED

BASINS	AREA (acres)	LAND TREATMENT PERCENTAGES BY TYPE				YIELD (cfs/ac)	Q_{100} (cfs)	V_{100-24} (acft)
		A	B	C	D			
SITE	1.48	0	18	10	72	4.37	6.44	0.288
WILSHIRE	0.73	0	0	10	90	4.59	6.70	0.153

REQUIRED WATER QUALITY VOLUME

CASH IN LIEU WILL BE UTILIZED FOR FIRST FLUSH RUNOFF REQUIREMENTS. THE VOLUME SHALL BE EQUAL TO: IMPERVIOUS AREA * (0.44-0.10)/12 IN CUBIC FEET.
IMPERVIOUS AREA = 0.72 * 64,469 SQ.FT. = 46,418
REQUIRED VOLUME = 46,418 * (0.44-0.10)/12 = 1,315 CU.FT.

PRIOR TO WORK ORDER, OWNER WILL MAKE PAYMENT IN LIEU FOR THE REQUIRED STORM WATER QUALITY VOLUME IN THE AMOUNT OF $7,890.98.

LEGEND

TEMPORARY EROSION AND SEDIMENT CONTROL PLAN

- PROJECT PERIMETER & DISTURBED AREA
- SILT FENCE
- EXISITING BLOCK WALL
- FLOW DIRECTION
- STAGING AREA
- STABILIZED CONSTRUCTION ENTRANCE
- TRASH RECEPTACLE
- CHEMICAL TOILET
- CONCRETE WASHOUT
- RETENTION POND
- CUT BACK CURB
- EARTH BERM
- DROP INLET PROTECTION
- OUTFALL
- POSTING SIGN
- PRESERVED VEGETATION

RECEIVING WATERS:	**RIO GRANDE 2105_50 VIA ALBUQUERQUE MS4: TIER II AND IMPAIRED WITH E. COLI, PCBs, AND DISSOLVED OXYGEN**
CRITICAL HABITAT:	**CRITERION "A"; NO CRITICAL HABITATS WITHIN THE PROJECT AREA**
GPS LOCATION:	**35.1819, -106.5681**

CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL
CPESC
CASSANDRA DURKIN
No. 0212

06/27/2019
CPESC Stamp

LUNA VITA
PROJECT TITLE

ALBUQUERQUE, BERNALILLO COUNTY, NM
CITY, COUNTY, STATE

06/27/2019 DATE

C. DURKIN DRAWN BY

INSPECTIONS PLUS

Curb Storm Inlet Protection with Wattles

Inlet Filter Installation Instructions:

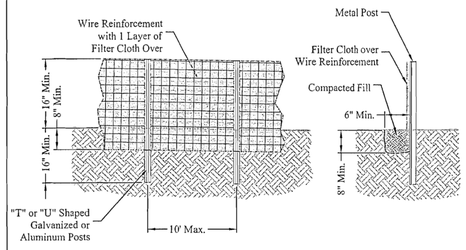
1. Remove sediment, debris, ice and snow from the inlet grate surface and surrounding area.

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 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.

1. Silt fence provides a barrier that can collect and hold debris and soil, preventing the material from entering critical areas, streams, streets, etc.
2. 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
20-33	5:1-3:1	100	1,000
33-50	3:1-2:1	100	500
50 +	2:1 +	50	250

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.

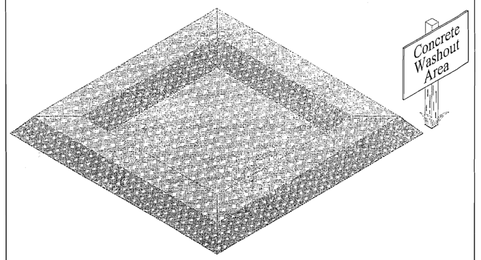
8. Sedimentation and erosion control measures shall be removed following construction or upon permanent stabilization of the disturbed and graded areas, whichever occurs last.

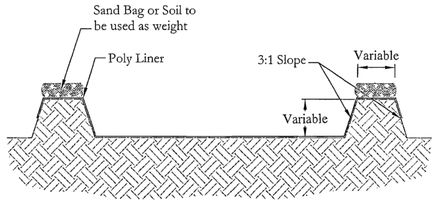
9. All disturbed areas that are not to be paved shall be re-seeded unless noted otherwise.

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.

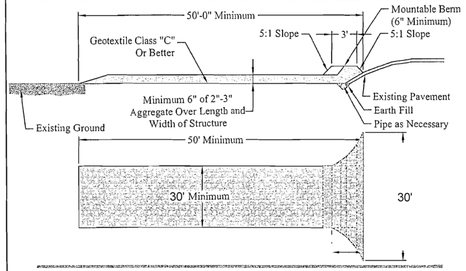
Concrete Washout Area

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

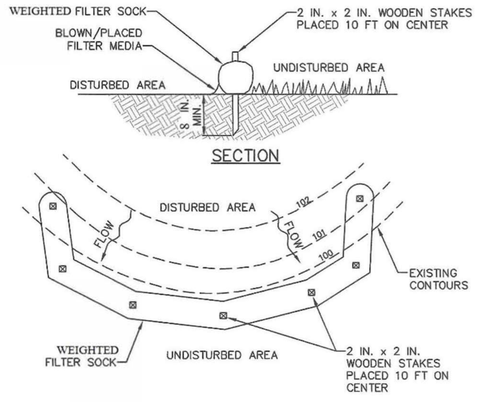
The purpose of the stabilized construction entrance is to reduce tracking of sediment onto streets or public rights-of-way and provide a stable area for entrance or exit from the construction site.

Conditions where the Practice Applies

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

Design Criteria

1. Length - Minimum of 50'-0"
2. Width - Minimum of 30'-0", should be flared at the existing road to provide a turning radius.
3. Geotextile Class "C" shall be placed over the exiting ground prior to placing stone. The Plan approval authority may not require geotextile fabric for single family residence.
4. 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.
5. 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".
6. Location - A stabilized construction entrance shall be located at every point where construction traffic enters of leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.



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CRITICAL HABITAT:	**CRITERION "A"; NO CRITICAL HABITATS WITHIN THE PROJECT AREA**
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LUNA VITA
PROJECT TITLE

ALBUQUERQUE, BERNALILLO COUNTY, NM
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INSPECTIONS PLUS