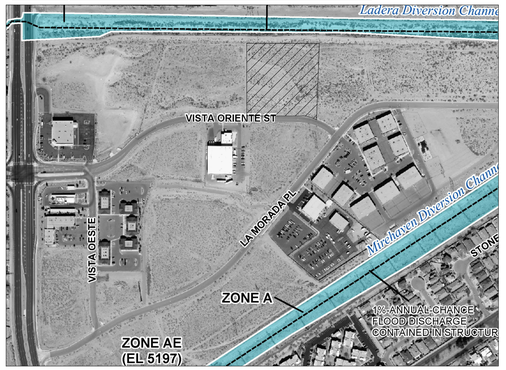
FEMA Map



Drainage Narrative

THE PURPOSE OF THIS GRADING AND DRAINAGE PLAN FOR 2301 VISTA ORIENTE STREET N.W. IS TO ACCOMMODATE A NEW SELF STORAGE FACILITY AND PROVIDE FOR POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES AS DEMONSTRATED HEREON.

CURRENTLY THE SITE IS AN UNIMPROVED LOT BOUNDED TO THE WEST AND EAST BY UNIMPROVED LOTS, TO THE NORTH BY THE LADERA DIVERSION CHANNEL AND TO THE SOUTH BY VISTA ORIENTE STREET, AND CURRENTLY SLOPES FROM THE WEST TO THE EAST AT A SLOPE OF 2.2% ACCEPTING THE OFFSITE FLOWS FROM THE WEST AND DISCHARGING TO THE VACANT LOT TO THE EAST. THE PROPOSED GRADING AND DRAINAGE PLAN WOULD ACCOMMODATE ALL OF THE RUN-OFF FROM THE PROPOSED CONSTRUCTION TO DRAIN TO THE SOUTHEAST TO A POND WITH A STORM DRAIN INLET THAT WILL CONNECT TO THE EXISTING 18" CMP STUB AS SHOWN. THE SITE HAS FREE DISCHARGE INTO THE STORM DRAIN.

THE SITE IS OUTSIDE OF THE FLOOD PLAIN AS DESIGNATED AS ZONE"X" PER FEMA FLOOD PLAIN PANEL 35001C0326J, DATED NOVEMBER 4, 2016.

Drainage Calculations

VISTA ORIENTE SELF STORAGE

Hydrology Calculations
DPM - Section 22.2
Volume 2, January 1993

Precipitation Zone	*1*
100 Year Storm Depth, P (360)	*2.2*

Treatment Area	A	B	C	D
Excess Precipitation Factors	*0.44*	*0.67*	*0.99*	*1.97*
Peak Discharge Factors	*1.29*	*2.03*	*2.87*	*4.37*

Land Treatment Area	Acres	Existing		Proposed
Type "D" (Roof)		*0*		*3.12*
Type "C" (Unpaved Roadway)		*0*		*0.00*
Type "B" (Irrigated Lawns)		*0*		*0.44*
Type "A" (Undeveloped)		*3.56*		*0.00*
Total (Acres)		3.56		3.56
Excess Precipitation(in)		0.44		1.81
Volume (100), cf		5686.03		23381.56
Volume (10),cf		3809.64		15665.64
Q (100), cfs		4.59		14.53
Q (10), cfs		3.08		9.73

LEGEND

TEMPORARY EROSION AND SEDIMENT CONTROL PLAN

- PROJECT PERIMETER & DISTURBED AREA
- SILT FENCE
- MULCH SOCKS
- FLOW DIRECTION
- STAGING AREA
- STABILIZED CONSTRUCTION ENTRANCE
- TRASH RECEPTACLE
- CHEMICAL TOILET
- CONCRETE WASHOUT
- RETENTION POND
- RIP RAP
- CHECK DAM
- DROP INLET PROTECTION
- OUTFALL
- POSTING SIGN
- PRESERVED VEGETATION

RECEIVING WATERS: **RIO GRANDE VIA ALBUQUERQUE MS4- TIER II WATER AND IMPAIRED WITH E. COLI, PCBs, AND DISSOLVED OXYGEN**

CRITICAL HABITAT: **CRITERION "A"; NO CRITICAL HABTATS WITHIN PROJECT AREA**

GPS LOCATION: **35.1114, -106.7261**

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

04/02/2020
CPESC Stamp

T&M SELF STORAGE
PROJECT TITLE

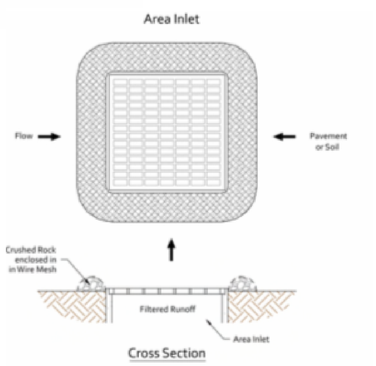
ALBUQUERQUE, BERNALILLO COUNTY, NM
CITY, COUNTY, STATE

04/02/2020 DATE

C. DURKIN DRAWN BY

INSPECTIONS PLUS

INLET PROTECTION



BMP Objectives

- Sediment Control
- Sheet Flow Runoff Control

SILT FENCE

BMP Objectives

- Sediment Control
- Wind Erosion Control

SEDIMENT TRACK OUT CONTROL

BMP Objectives

- Sediment Control

MULCH SOCK/STRAW WATTLE

BMP Objectives

- Sediment Control
- Reduce Runoff Velocity
- Inlet Protection

BERMS AND SWALES

BMP Objectives

- Runoff Control
- Run-on Diversion

EROSION CONTOL NOTES

1. All perimeter erosion and sediment control measures shall be installed prior to the execution of any grading work and shall be maintained for the duration of the project. Failure to install and maintain erosion controls is a violation of the Federal Permit and is subject to fines.

2. All Erosion and Sediment Control (ESC) work on these plans, except as otherwise stated or provided hereon shall be permitted, constructed, inspected, and maintained in accordance with:

- **a. The City Ordinance § 14-5-2-11, the ESC Ordinance**
- **b. The EPA's 2017 Construction General Permit (CGP), and**
- **c. NMDOT's August 2012 BMP Manual, Appendix A**

3. Sediment collected behind sediment filters and Silt Fences shall be removed when sediment reaches 1/3 the height of the barrier.

4. Routine Self-Inspections are required to review the project for compliance with the City Ordinance and the Construction General Permit according to the receiving water for the site. For sites that discharge to Sensitive Waters, inspection of erosion and sediment controls and other protective measures are required once every 7 and within 24 hours of Storm Events that produce 0.25 inches or more. All other sites must conduct Self-Inspections once every 14 days and within 24 hours of Storm Events that produce 0.25 inches or more. All inspections shall continue until the site construction has been completed and the site is determined stabilized by the City. Reports of these inspections shall be kept by the person or entity authorized to direct the construction activities on the site.

5. Erosion and Sediment control measures shall be removed following construction or upon permanent stabilization of the disturbed/graded areas, whichever occurs last.

6. All disturbed areas that are not to be paved shall be reseeded unless otherwise noted.

7. The Contractor shall keep the site clean at all times and control dust resulting from earthwork operations. The Contractor shall not track mud or sediment from the site onto the public streets.

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