

DRAINAGE INFORMATION

LOCATION & DESCRIPTION

THE PROPOSED SITE IS TWO NORTH ALBUQUERQUE ACRES LOTS ENCOMPASSING APPROXIMATELY 2 ACRES LOCATED ON THE SOUTH SIDE OF PALOMAS ROAD WEST OF WYOMING BLVD. AS SEEN ON THE VICINITY MAP. THE SITE IS UNDEVELOPED. THE ADJACENT PROPERTY TO THE WEST IS A RESIDENT NURSING FACILITY. TO THE EAST IS A VACANT LOT TO THE SOUTH IS A CITY PARK WITHOUT LANDSCAPE. THE PROPOSED DEVELOPMENT IS THE FIRST PHASE OF AN OFFICE COMPLEX DEVELOPMENT.

FLOODPLAIN STATUS

THIS PROJECT, AS SHOWN ON FEMA'S FLOOD INSURANCE RATE MAP 35001C0141 G, DATED 9/26/2008 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 SITE CURRENTLY DISCHARGES RUNOFF TO LOT 12 AND THE SITE ADJACENT TO THE WEST. THE DRAINAGE PLAN FOR THE LAS PALOMAS NURSING CENTER (D19-D0122) PRESCRIBES A DISCHARGE HISTORIC FLOW OF 5.17 CFS (100YR-24HR) (1.72 CFS/AC.) ALLOWED TO FLOW THROUGH TO THE ARROYO WHICH LIES TO THE SOUTHWEST.

DEVELOPED CONDITION

THE PROPOSED SITE IMPROVEMENTS WILL INCLUDE THE CONSTRUCTION OF AND PARKING FOR A MEDICAL OFFICE COMPLEX, AND IT WILL BE CONSTRUCTED IN TWO PHASES. LOT 12 WILL COMPRISE THE SECOND PHASE, AND IT WILL MAINTAIN THE RUNOFF CONDITIONS SHOWN HEREON. RUNOFF FROM THE PROPOSED DEVELOPMENT WILL BE CONVEYED VIA SURFACE FLOW TO THE PROPOSED DETENTION POND WHICH DISCHARGES VIA WALL OPENINGS TO THE HISTORIC OUTFALL LOCATION AT A PEAK RATE OF 5.17 CFS AFTER COMPLETION OF CONSTRUCTION ON LOT 12.

HYDROLOGIC DATA - EXISTING

BASINS	AREA (acres)	LAND TREATMENT PERCENTAGES BY TYPE				YIELD (cfs/ac)	Q ¹⁰⁰ (cfs)	V ¹⁰⁰⁻²⁴ (acft)
		A	B	C	D			
P1	1.77	0	100	0	0	1.72	3.06	0.10

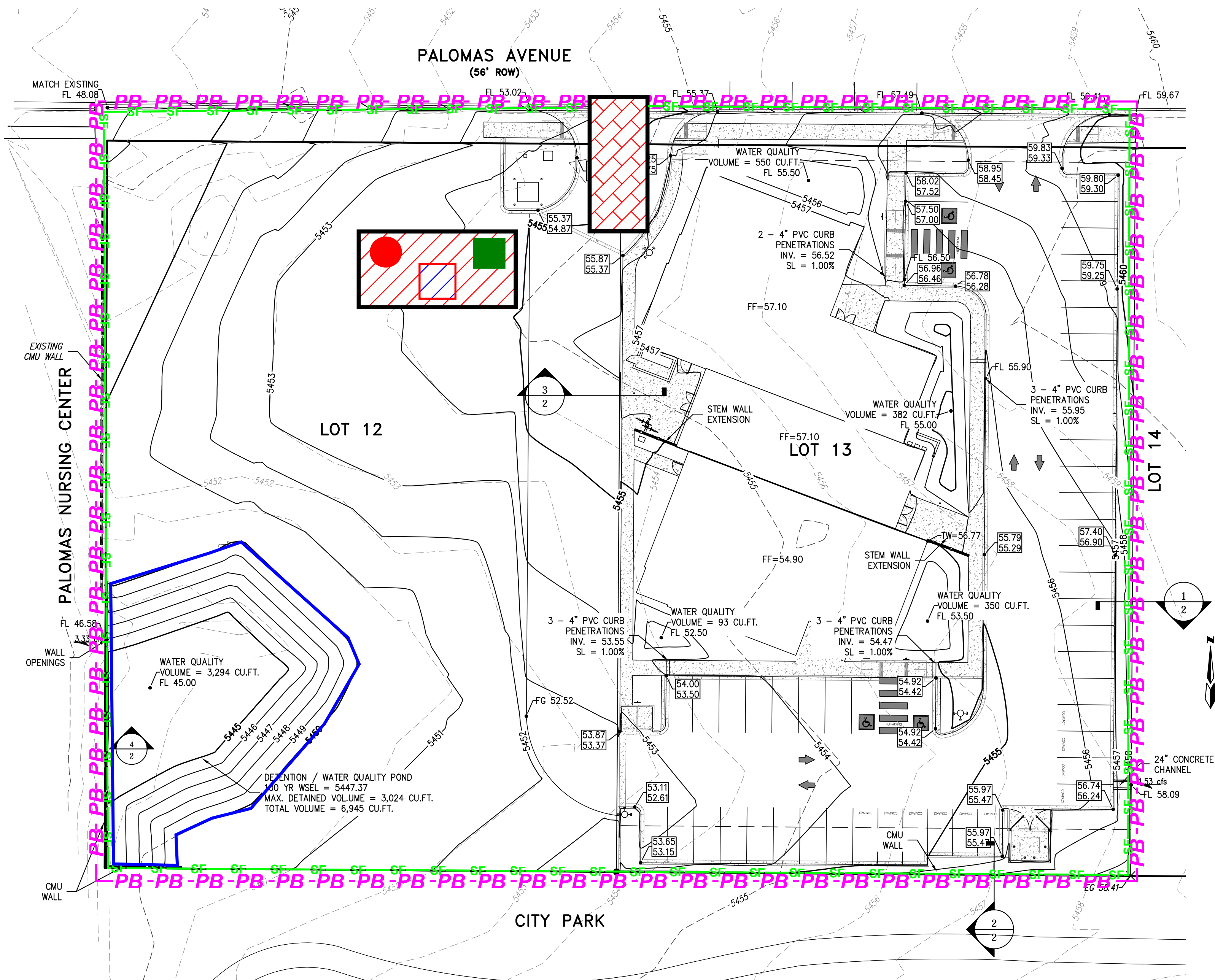
HYDROLOGIC DATA - DEVELOPED

BASINS	AREA (acres)	LAND TREATMENT PERCENTAGES BY TYPE				YIELD (cfs/ac)	Q ¹⁰⁰ (cfs)	V ¹⁰⁰⁻²⁴ (acft)
		A	B	C	D			
P1	1.77	0	0	15	85	3.75	6.65	0.37
POND OUT							3.99	0.16



FIRM MAP NO. 35001C0141G

VICINITY MAP D-19-Z



REQUIRED WATER QUALITY VOLUME

LOT DRAINAGE AS DEPICTED ON THIS PLAN SHALL BE MAINTAINED.

SITE DEPICTED HEREON SHALL BE RESPONSIBLE FOR MAINTAINING FIRST FLUSH RUNOFF RETENTION ON THE SITE IMMEDIATELY PRIOR TO DISCHARGE. THE VOLUME SHALL BE EQUAL TO: IMPERVIOUS AREA * (0.44-0.10)/12 IN CUBIC FEET.

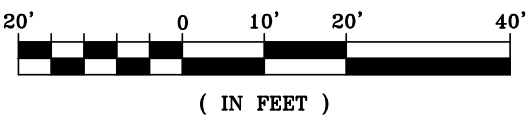
IMPERVIOUS AREA = 38,556 * 0.85 = 32,773 SQ.FT.

REQUIRED VOLUME = 32,773 * (0.44-0.10)/12 = 929 CU.FT./LOT

VOLUME PROVIDED = LOT 13 = 1,375 CU.FT.

LOT 12 = 3,294 CU.FT.

TOTAL PROVIDED VOLUME = 4,669 CU.FT.



SITE WILL HAVE A PERIMETER SILT FENCE. ALL DISTURBED AREAS SHAL BE STABILIZED PER THE CGP REQUIREMENT. STAGING AREA IS REPRESENTATIVE AND MAY BE MOVED TO ACCOMMODATE PROJECT

LEGEND

TEMPORARY EROSION AND SEDIMENT CONTROL PLAN

- PB -PB -PB -PB PROJECT PERIMETER & DISTURBED AREA
- SF - SF - SF 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 PCBs, DISSOLVED OXYGEN, AND E. COLI

CRITICAL HABITAT: CRITERION "A"; NO CRITICAL HABITATS WITHIN PROJECT AREA

GPS LOCATION: 35.1724, -106.5533

PALOMAS PEAK OFFICE DEVELOPMENT

PROJECT TITLE

ALBUQUERQUE, BERNALILLO COUNTY, NM

CITY, COUNTY, STATE

01/29/2020

DATE

C. DURKIN

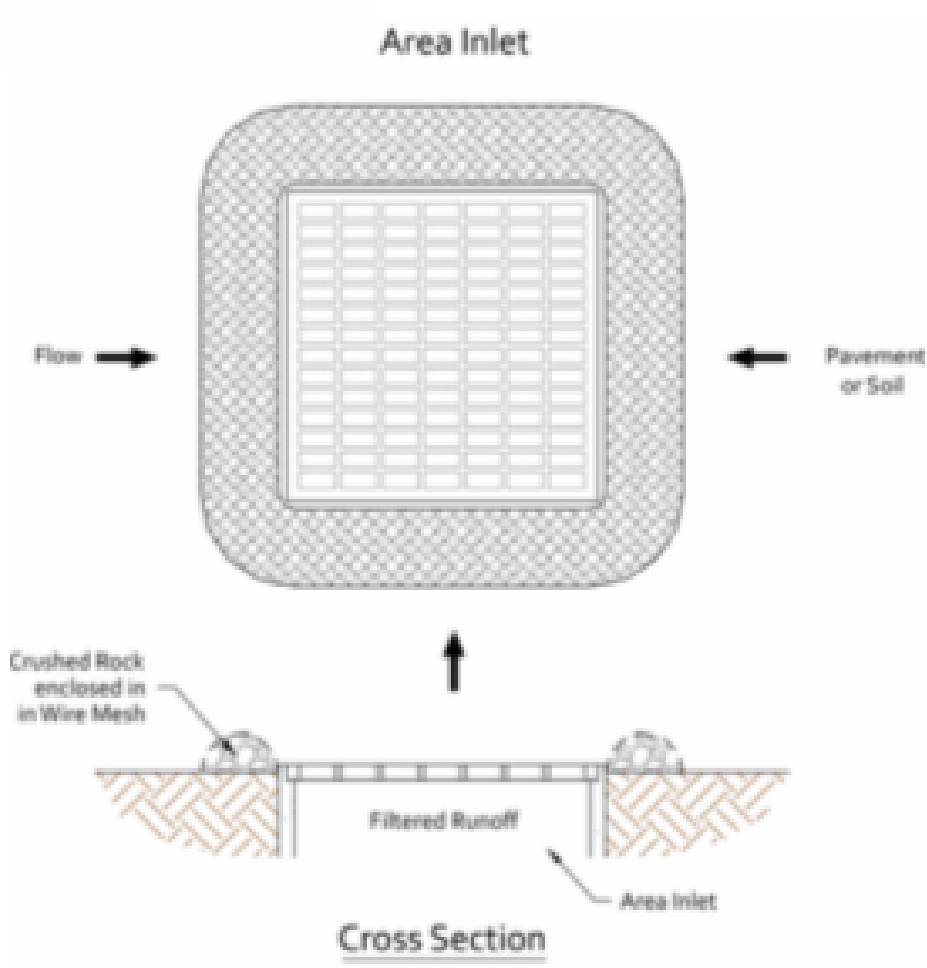
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01/29/2020
CPESC Stamp



INLET PROTECTION



BMP Objectives

- Sediment Control
- Sheet Flow Runoff Control

SILT FENCE



BMP Objectives

- Sediment Control
- Sheet Flow Runoff 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 Controls and their installation shall meet manufacturer specification and comply with the current guidelines for Stormwater Management for Construction Activities.
3. Sediment collected behind sediment filters and Silt Fences shall be removed when sediment reaches 1/3 the height of the barrier.
4. Inspection of erosion and sediment controls and other protective measures are required once every 7 days from July 1st to October 31st and once every 7 days from November 1st to June 30th for discharge to tier and Sensitive Waters. Storm Events that produce 0.25' or more shall be inspected within 24 hours of the storm event.
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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