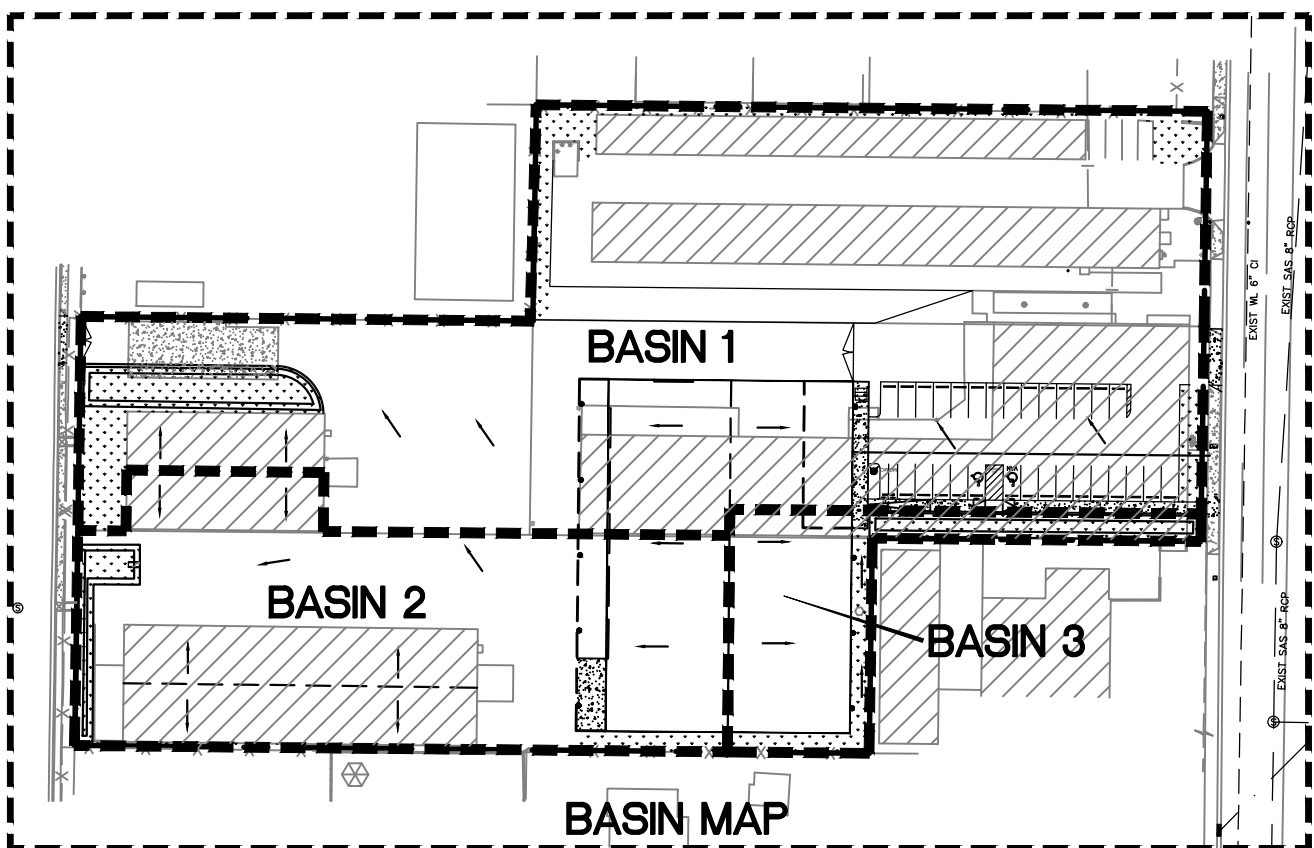
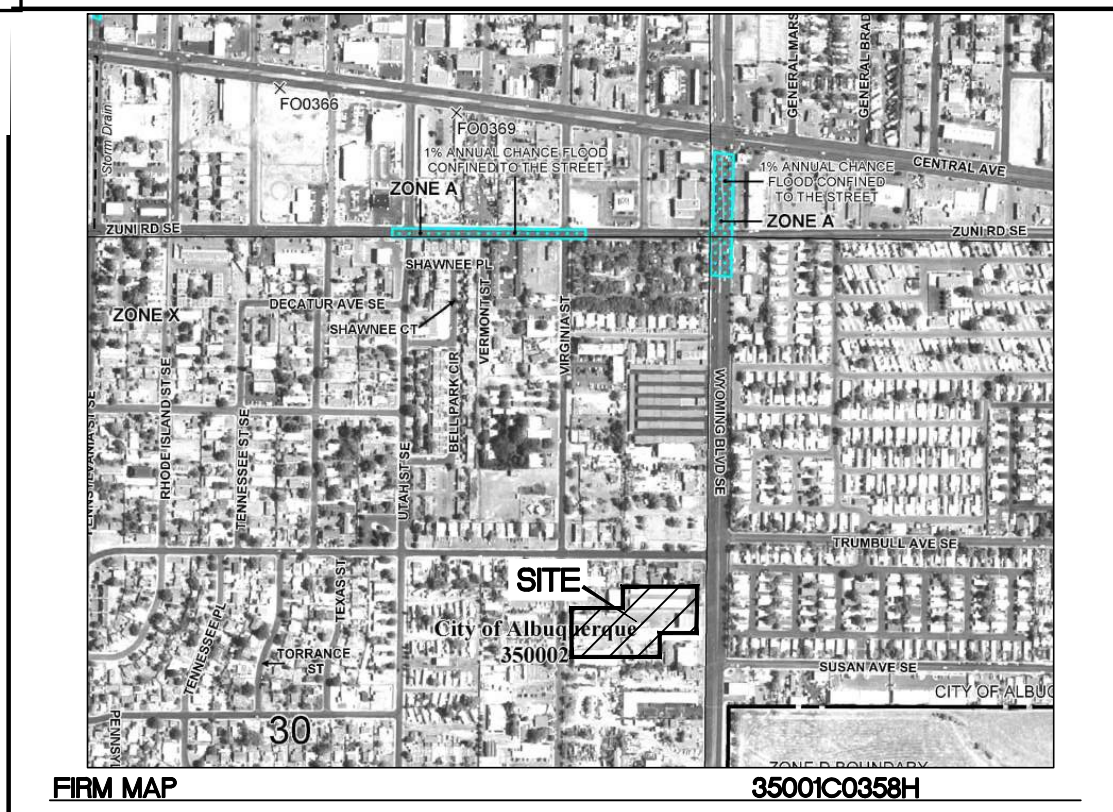
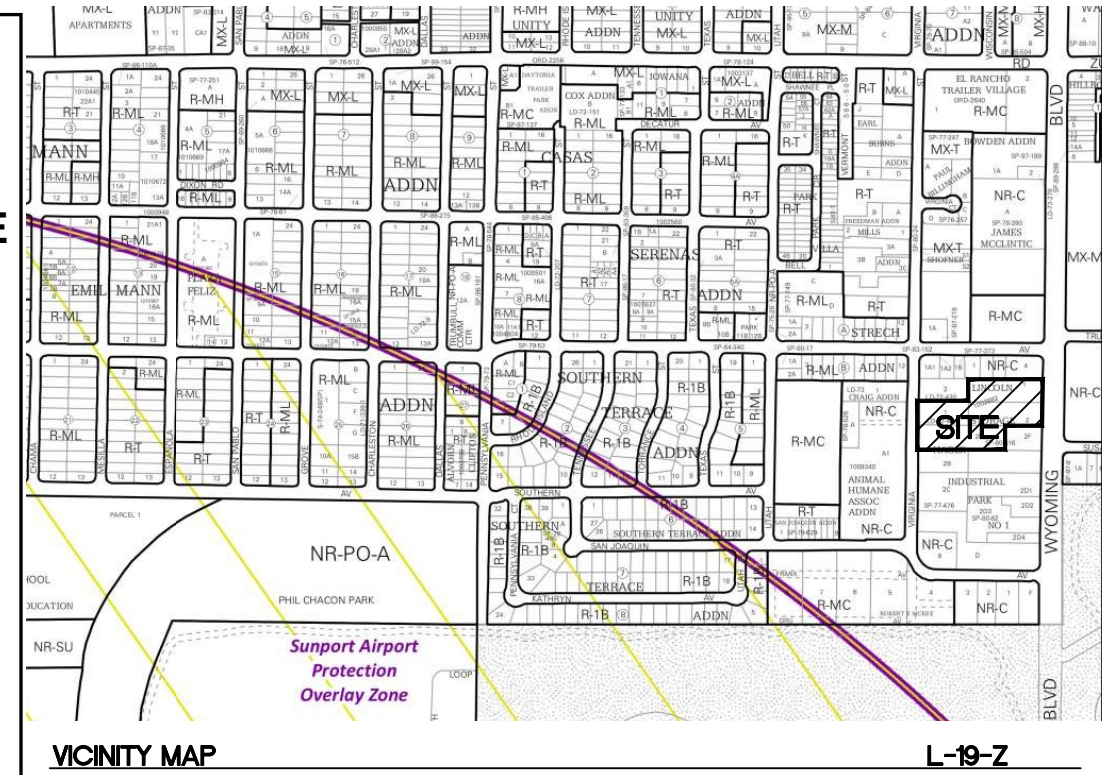
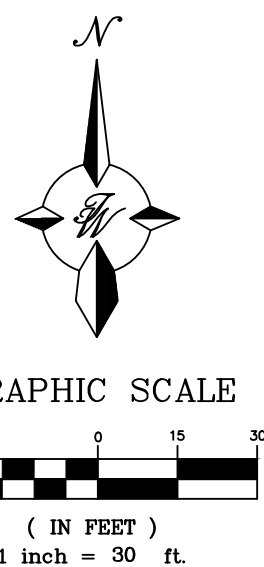


SITE WILL HAVE PERIMETER SILT FENCE WITH MULCH SOCKS AT THE BASE DUE TO SITE PAVING. STAGING AREA IS REPRESENTATIVE AND MAY BE MOVED TO ACCOMMODATE PROJECT



LEGEND

TEMPORARY EROSION AND SEDIMENT CONTROL PLAN

- PB -PB -PB -PB PROJECT PERIMETER
- 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

Weighted E Method

On-Site Basins																
	Area (sf)	Area (acres)	Treatment A		Treatment B		Treatment C		Treatment D		100-Year			10-Year		
			%	(acres)	%	(acres)	%	(acres)	%	(acres)	Weighted E (in)	Volume (ac-ft)	Flow cfs	Weighted E (in)	Volume (ac-ft)	Flow cfs
1	94,768	2.18	0%	0	8%	0.17	0%	0.00	92%	2.00	2.442	0.443	9.42	1.536	0.278	5.81
2	39,990	0.92	0%	0	5%	0.05	0%	0.00	95%	0.87	2.494	0.191	4.03	1.575	0.120	2.50
3	10,740	0.25	0%	0	41%	0.10	0%	0.00	59%	0.15	1.875	0.039	0.90	1.107	0.023	0.52

Equations:

Weighted E = Ea**A*a + Eb**A*b + Ec**A*c + Ed**A*d / (Total Area)

Volume = Weighted D * Total Area

Flow = Qa * *A*a + Qb * *A*b + Qc * *A*c + Qd * *A*d

Excess Precipitation, E (inches)				Peak Discharge (cfs/acre)			
Zone 3	100-Year	10 - Year		Zone 3	100-Year	10 - Year	
E _a	0.67	0.18		Q _a	1.84	0.51	
E _b	0.86	0.34		Q _b	2.49	1.07	
E _c	1.09	0.52		Q _c	3.17	1.69	
E _d	2.58	1.64		Q _d	4.49	2.81	

WATER QUALITY PONDING

BASIN 1 87120 SF X 0.26"/12"=1888 CU FT
BASIN 2 37897 SF X 0.26"/12"=821 CU FT
BASIN 3 6534 SF X 0.26"/12"=142 CU FT

EXISTING DRAINAGE:

THE EXISTING SITE IS MOSTLY PAVED AND DRAINS FROM EAST TO WEST FROM WYOMING BLVD. TO VIRGINIA STREET. THE FLOWS ENTER VIRGINIA STREET THROUGH TWO 24 INCH SIDEWALK CULVERTS. FROM THERE THE WATER FLOWS TO TRUMBULL SE AND THEN WEST TO PENNSYLVANIA AVE. WHERE IT IS INTERCEPTED BY EXISTING CURB INLETS. THE EXISTING RUNOFF FROM THE SITE IS 21.28 CFS.

THE PROPERTY IS IN ZONE X AS SHOWN ON THE FIRM MAP. THERE IS A SLIGHT AMOUNT OF OFFSITE FLOWS THAT ENTER THE SITE AT THE SOUTHEAST CORNER OF THE PROPERTY WHICH WILL BE ALLOWED TO SHEET FLOW TO VIRGINIA STREET.

PROPOSED DRAINAGE:

FOR THE MOST PART THIS PROJECT WILL DRAIN IN THE SAME PATTERN THAT CURRENTLY EXISTS WITH THE SIDEWALK CULVERTS REMAINING AND DISCHARGING INTO VIRGINIA STREET.

THE BIGGEST DIFFERENCE IS THAT THE FLOWS FROM BASINS 1 AND 2 WILL BE ROUTED THROUGH A WATER QUALITY POND PRIOR TO DISCHARGING TO VIRGINIA STREET. BASIN 3 WILL BE CONTAINED IN A WATER QUALITY POND ALONG THE SIDEWALK AND ALLOWED TO OVER FLOW INTO BASIN 1.

THE DRAINAGE CALCULATIONS WERE UPDATED TO THE NEW DPM STANDARDS AND SHOWS THAT THE RUNOFF IS NOW CALCULATED AT 14.35 CFS WHICH IS LESS THAN THE PREVIOUS CALCULATION OF 21.28 CFS.



11/24/2020
CPESC Stamp

RECEIVING WATERS: ONSITE WATER QUALITY PONDS

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

GPS LOCATION: 35.0683, -106.5514

C&D STORAGE

PROJECT TITLE

ALBUQUERQUE, BERNALILLO COUNTY, NM

CITY, COUNTY, STATE

11/24/2020

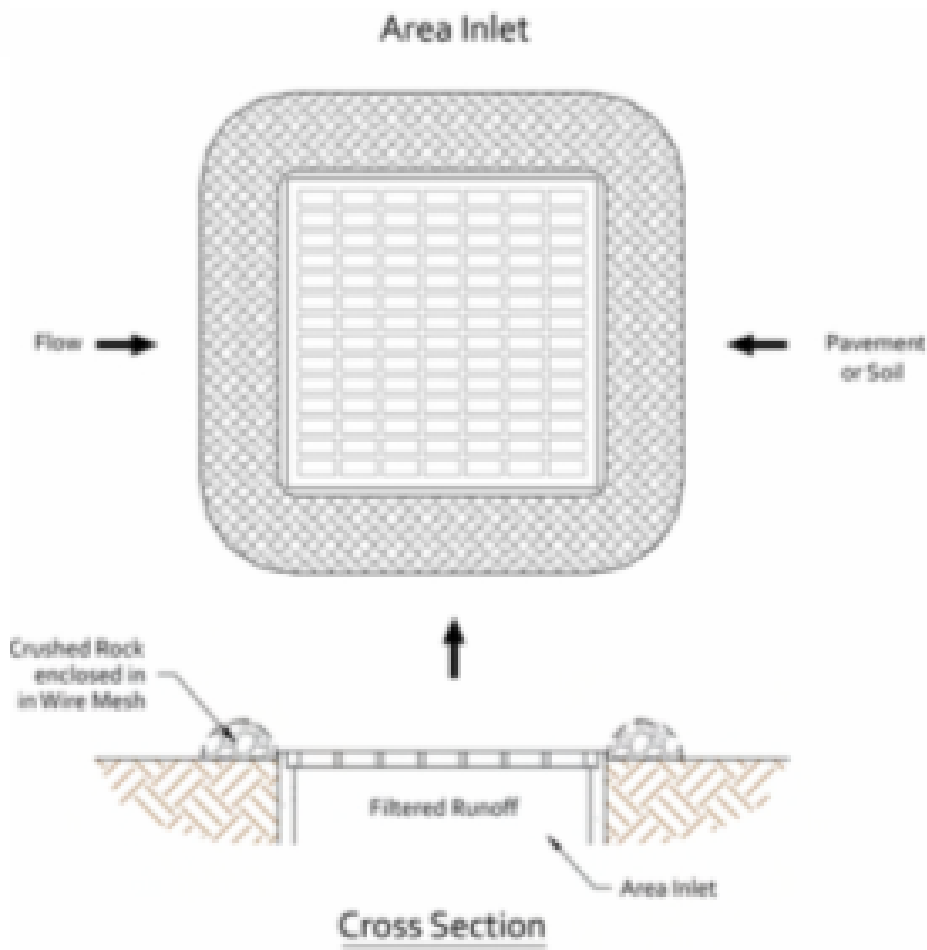
DATE

C. DURKIN

DRAWN BY



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 CONTROL NOTES
ESC Plan Standard Notes (2020-06-03)

- 1.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.The City Of Albuquerque Construction BMP Manual.
- 2.All BMP's must be installed prior to beginning any earth moving activities except as specified hereon in the Phasing Plan. Construction of earthen BMP's such as sediment traps, sediment basins, and diversion berms shall be completed and inspected prior to any other construction or earthwork. Self-inspection is required after installation of the BMPs and prior to beginning construction.
- 3.Self-inspections - At a minimum a routine compliance self-inspection is required to review the project for compliance with the Construction General Permit once every 14 days and after any precipitation event of 1/4 inch or greater until the site construction has been completed and the site determined as 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.
- 4.BMPs shall be inspected and maintained until all disturbed areas are stabilized in accordance with the Final Stabilization Criteria (CGP 2.2.14.b). Generally, all disturbed areas, other than structures, must have uniform perennial vegetation that provides 70 percent or more of the cover provided by native vegetation or seed the disturbed area and provide non-vegetative mulch that provides cover for at least three years without active maintenance. Final stabilization must be documented on prior to removal of BMPs and discontinuation of inspections.

RECEIVING WATERS: ONSITE WATER QUALITY PONDS

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

GPS LOCATION: 35.0683, -106.5514

C&D STORAGE

PROJECT TITLE

ALBUQUERQUE, BERNALILLO COUNTY, NM

CITY, COUNTY, STATE

11/24/2020

DATE

C. DURKIN

DRAWN BY



11/24/2020
CPESC Stamp

