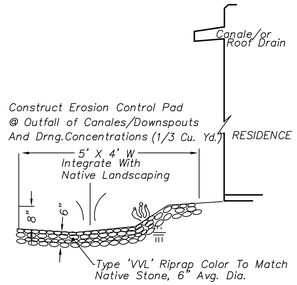
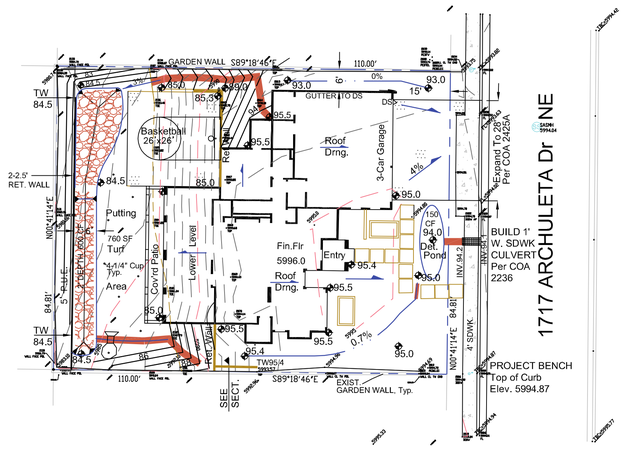
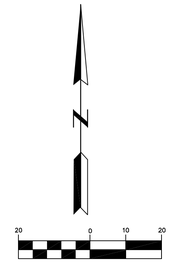
STREET VIEW - LOOKING WEST



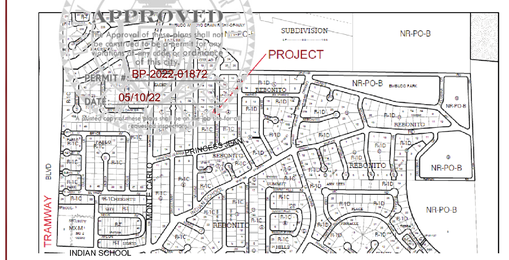
EROSION CONTROL PAD

NO SCALE





SCALE: 1" = 20'



VICINITY MAP

ZONE J-23

NOTES

1. ALL WORK WITHIN THE RIGHT-OF-WAY SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECS. FOR PUBLIC WORKS CONSTRUCTION, 2020.
2. AN EXCAVATION/CONSTRUCTION PERMIT IS REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY R.O.W. AN APPROVED COPY OF THIS PLAN MUST BE SUBMITTED AT THE TIME OF APPLICATION.
3. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES, AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
4. ALL LANDSCAPING AREA SHALL BE SOFT-LINED WITH NATIVE VEGETATION AND/OR GRAVEL.
5. CONTRACTOR SHALL ENSURE THAT NO SITE SOILS/SEDIMENT OR SILT ENTER THE RIGHT-OF-WAYS DURING CONSTRUCTION.
6. REVEGETATE ALL AREAS DISTURBED DUE TO CONSTRUCTION PER CITY OF ALBUQ. SPEC. 1012, NATIVE SEED MIX.
7. MAXIMUM SITE GRADING WITHOUT EROSION PROTECTION: 2 HORIZONTAL TO 1 VERTICAL, 2:1. DIMENSIONS ARE TO FACE OF CURB UNLESS NOTED OTHERWISE.

LEGEND

+24.0	EXIST. SPOT ELEVATION
10	EXIST. CONTOUR
24.0	NEW SPOT ELEVATION
38	NEW CONTOUR
	NEW SWALE
	DRAINAGE DIRECTION, EXISTING
FL	FLOWLINE
DS	DOWNSPOUT
NG OR G	NATURAL GROUND, EXISTING
R/C	REBAR AND CAP, EXISTING
V-SWALE	NEW TYPE VVL RIPRAP (BURIED 6") (2"-8" DIA. Well Graded, River Run Cobbles)
TW	TOP OF RETAINING WALL

CALCULATIONS

DESIGN CRITERIA

HYDROLOGIC METHODS PER CHAPTER 6, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL (DPM) DATED 2020 FOR CITY OF ALBUQUERQUE.
DISCHARGE RATE: Q=QPEAK x AREA.."Peak Discharge Rates For Small Watersheds"
VOLUMETRIC DISCHARGE: VOLUME = EWeighted x AREA
P100-6Hr = 2.64 In., Zone 4, P100-24Hr. = 3.6 In., P100-10 Day=4.8 In. TC = 12 Minutes
DESIGN STORM: 100-YEAR/6-HOUR, 10-YEAR/6-HOUR [ ] = 10 YEAR VALUES

PRE-DEVELOPED CONDITIONS

LOT AREA = 0.21 ACRES, WHERE EXCESS PRECIP. 'A' = 0.76 In. [0.25]
PEAK DISCHARGE, Q100 = 0.44 CFS [XX], WHERE UNIT PEAK DISCHARGE = 2.09 CFS/AC. [0.7]
THEREFORE: VOLUME 100 = 579 CF [XXX]

DEVELOPED CONDITIONS

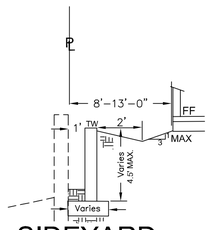
DETERMINE LAND TREATMENTS, PEAK DISCHARGE AND VOLUMETRIC DISCHARGE FOR STUDY AREA

	AREA	LAND TREATM'T	Q Peak	E
UNDEVELOPED	N/A	A	2.09[0.70]	0.76[0.25]
LANDSCAPING,;10-20% SL	0.07 Ac.(33%)	B	2.73[1.28]	0.95[0.41]
GRAVEL & COMP. SOIL; 20%>	0.03 Ac.(14%)	C	3.41[1.89]	1.20[0.59]
ROOF - PAVEMENT	0.11 Ac.(52%)	D	4.78[3.04]	3.34[2.15]
	0.21 Ac.			

THEREFORE: $E_{Weighted}$ = 2.19 In.[xx] &
Q100 = 0.82 CFS VOLUME 100 = 1669 CF

BASIN A = 3700 SF X 2"/12 = 600 CF ~ WEST RETENTION POND, REAR LOWER LEVEL
BASIN B = 3100 SF X 2"/12 = 500 CF~ (IF RETENTION) USE DETENTION POND (EAST) ==> FREE DISCHARGE
BASIN C = 2000 SF X 2"/12 = 333 CF, Q100~ 0.2 CFS, FREE DISCHARGE

EMERG. OVERFLOW: CHECK WEIR EQ. Q = CLH**3/2 WHERE: L=1', C=2.7, H= 8-1/2" (0.7') ==> Q= 1.6 CFS...OK
>> 2X Q Basin B



SIDEYARD RET. WALL SECTION

City of Albuquerque
Planning Department
Development Review Services
HYDROLOGY SECTION
APPROVED
DATE: 03/25/22
BY: Renée C Brissette
HydroTrans # J23D021
THE APPROVAL OF THESE PLANS/REPORT SHALL NOT BE CONSTRUED TO PERMIT VIOLATIONS OF ANY CITY ORDINANCE OR STATE LAW, AND SHALL NOT PREVENT THE CITY OF ALBUQUERQUE FROM REQUIRING CORRECTION, OR ERROR OR DIMENSIONS IN PLANS, SPECIFICATIONS, OR CONSTRUCTIONS. SUCH APPROVED PLANS SHALL NOT BE CHANGED, MODIFIED OR ALTERED WITHOUT AUTHORIZATION.

5/24/21

I, PHILIP W. CLARK, A PROFESSIONAL ENGINEER LICENSED IN ACCORDANCE WITH THE LAWS OF THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT I HAVE VISITED THE SITE SHOWN HEREON, AND THAT THE CONTOURS SHOWN REPRESENT THE EXISTING GROUND CONDITIONS, AND DO FURTHER CERTIFY THAT NO SIGNIFICANT EARTHWORK NOR MAJOR DISTURBANCE OF THE EXISTING GROUND HAS OCCURRED ON THIS SITE SINCE THE CONTOURS WERE DETERMINED.

PROJECT DATA

LEGAL DESCRIPTION
LOT 16, BLOCK 3, REBONITO SUBDIVISION
ALBUQUERQUE, BERNALILLO COUNTY, NM

PROJECT BENCHMARK
PROJECTION OF SOUTHEAST PROPERTY CORNER, EXIST.TOP OF CURB SEE PLAN, ELEVATION =5994.87 AS REFERENCED FROM ACS MONUMENTATION SYSTEM & AGIS. 1-3/4" ALUM. CAP LOCATED AT THE REBONITO/MONTE CARLO INTERS., "15_J23", Elev. 5933.78 (NAVD88)
TOPO DESIGN SURVEY BY ROBERT FIERRO.

EXPRESSLY PREPARED FOR JAYESH & AKASH

Clark Consulting Engineers
Edgewood, New Mexico 87015
Tele: (505) 281-2444 Cell/Txt: (505) 264-6042

DATE	REVISION

LOT 16, BLOCK 3, REBONITO SUBDIVISION
ALBUQUERQUE, BERNALILLO COUNTY, NM
1717 ARCHULETA DR. NE

Grading & Drainage Plan

DESIGNED BY: PWC	DRAWN BY: CCE	PolblanosInvest	1 OF 1
CHECKED BY: PWC	DATE: 4/23/21	FILE #: G/D	

City Hyrdol. J23/D