CITY OF ALBUQUERQUE

Planning Department
Brennon Williams, Director



July 15, 2021

Jackie McDowell, PE McDowell Engineering, Inc. 7820 Beverly Hills Ave NE Albuquerque, NM 87121

RE: High Desert 5501 Barranca Oso Ct. NE Grading and Drainage Plan Engineers Stamp Date 6/24/2021 (F23D015)

Ms. McDowell,

Based upon the information provided in your submittal received 7/1/2021, this plan is approved for Grading Permit.

PO Box 1293 **P**

Prior to Building permit approval a Pad Certification will be required, provided by the Engineer or a registered Land Surveyor.

Albuquerque

Please inform the builder/owner to attach a copy of this approved plan to the construction sets in the permitting process prior to sign-off by Hydrology.

NM 87103

Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist of this plan will be required.

www.cabq.gov

If you have any questions, please contact me at 924-3986 or earmijo@cabq.gov.

Sincerely,

Ernest Armijo, P.E.

Principal Engineer, Planning Dept. Development Review Services



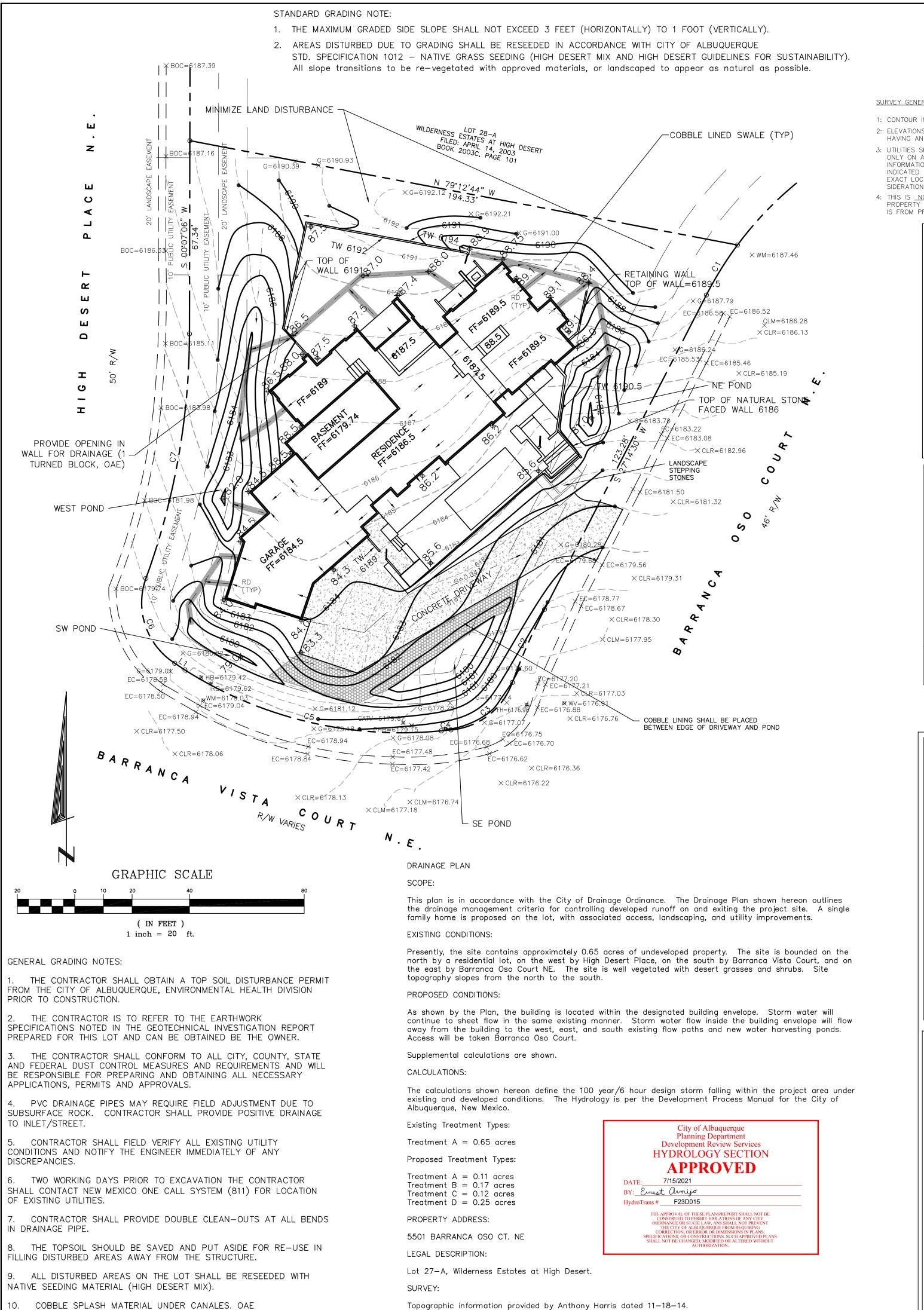
City of Albuquerque

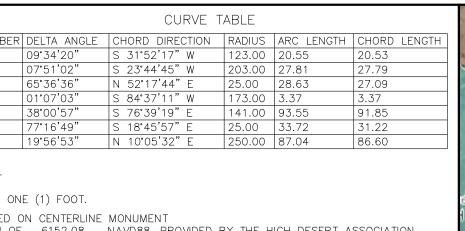
Planning Department Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 11/2018)

Project Title: Raissy - 5501 BARRANCA OSO	CT, High Desert Building Perr	mit #: BP2021- 24657	Hydrology File #:
DRB#:	EPC#:		Work Order#:
Legal Description: LT 27-A PLAT C	F LOTS 1-A THRU 27-A WILE	DERNESS ESTATESAT I	HIGH DESERT
City Address: 5501 BARRANCA OSC	CT NE ALBUQUERQUE NM	87111	
Applicant: MCDOWELL ENGINEERING			Contact: JACKIE MCDOWELL
Address: 7820 BEVERLY HILLS AVE.			T : incl/mode/well@compact not
Phone#: 505-828-2430	Fax#: 505-821	-465 <i>1</i>	E-mail: jackmcdowell@comcast.net
Owner: RAISSY-DEHKORDI MOHSEN	& HEIDARIAN-RAISSY HENC	GAMEH	Contact: MOHSEN RAISSY
Address: 8100 WYOMING BLVD NE #	M4-127 ALBUQUERQUE NM	87113-1947	
Phone#: 505-620-7219	Fax#:		E-mail: mohsenraissy@yahoo.com
IS THIS A RESUBMITTAL?: TRAFFIC/ T Check all that Apply:		_	AINAGE
TYPE OF SUBMITTAL: ENGINEER/ARCHITECT CERT PAD CERTIFICATION CONCEPTUAL G & D PLAN X GRADING PLAN DRAINAGE MASTER PLAN DRAINAGE REPORT FLOODPLAIN DEVELOPMENT ELEVATION CERTIFICATE CLOMR/LOMR TRAFFIC CIRCULATION LAYO TRAFFIC IMPACT STUDY (TIST OTHER (SPECIFY) PRE-DESIGN MEETING?	PERMIT APPLIC OUT (TCL) S)	X BUILDING P CERTIFICAT PRELIMINA SITE PLAN I SITE PLAN I FINAL PLAT SIA/ RELEA FOUNDATIO GRADING P SO-19 APPR PAVING PEI GRADING/ F WORK ORDE CLOMR/LON FLOODPLAI	SE OF FINANCIAL GUARANTEE ON PERMIT APPROVAL ERMIT APPROVAL OVAL RMIT APPROVAL PAD CERTIFICATION ER APPROVAL
DATE SUBMITTED: 6-30-21		E MCDOWELL	
COA STAFF:	ELECTRONIC S	SUBMITTAL RECEIVED:	

FEE PAID:___





SURVEY GENERAL NOTES:

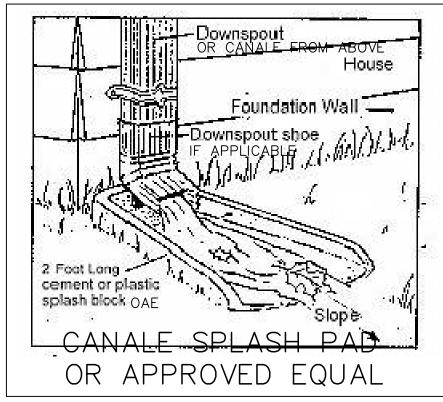
- 1: CONTOUR INTERVAL IS ONE (1) FOOT.
- 2: ELEVATIONS ARE BASED ON CENTERLINE MONUMENT HAVING AN ELEVATION OF 6152.08, NAVD88, PROVIDED BY THE HIGH DESERT ASSOCIATION
- 3: UTILITIES SHOWN HEREON ARE IN THEIR APPROXIMATE LOCATION BASED ONLY ON ABOVE GROUND EVIDENCE FOUND IN THE FIELD AND AS-BUILT INFORMATION PROVIDED BY THE CLIENT. UTILITIES SHOWN HEREON, WHETHER INDICATED AS ABANDONED OR NOT, SHALL BE VERIFIED BY OTHERS FOR EXACT LOCATION AND/OR DEPTH PRIOR TO EXCAVATION OR DESIGN CON—
- 4: THIS IS <u>NOT</u> A BOUNDARY SURVEY. APPARENT PROPERTY CORNERS AND PROPERTY LINES ARE SHOWN FOR INFORMATION ONLY. BOUNDARY DATA SHOWN IS FROM PREVIOUS SURVEY REFERENCE HEREON

VARY SIZE OF COBBLE,

RANGING FROM 1" TO

FILTER FABRI UNDER COBLI

3", FOR NATURAL LOOK



VARY WIDTH TO GIVE

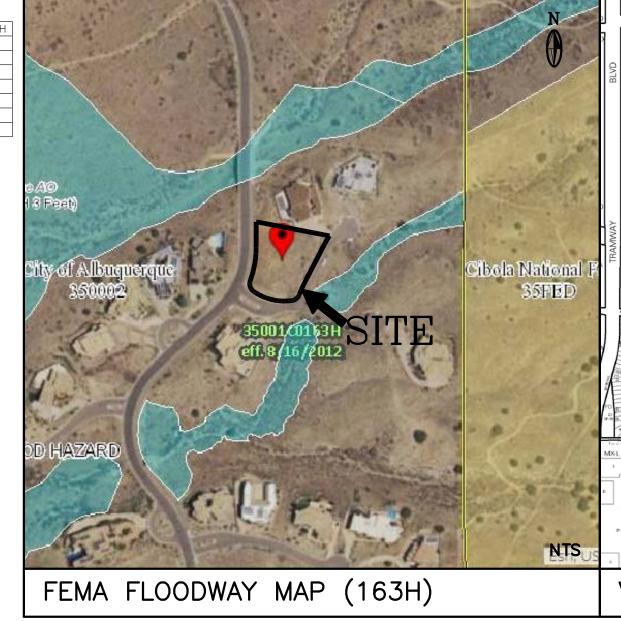
NATURAL LOOK

POND TREATMENT SHALL BE THE SAME

AS SWALE OR RESEEDED AS NOTED

COBBLE LINED SWALE

AND POND BEDDING



SURVEY LEGEND

= EDGE OF CONCRETE = CENTERLINE OF ROAD

= HOT BOX

= IRRIGATION BOX

= WATER METER

= FIRE HYDRANT

= WATER VALVE

= REBAR

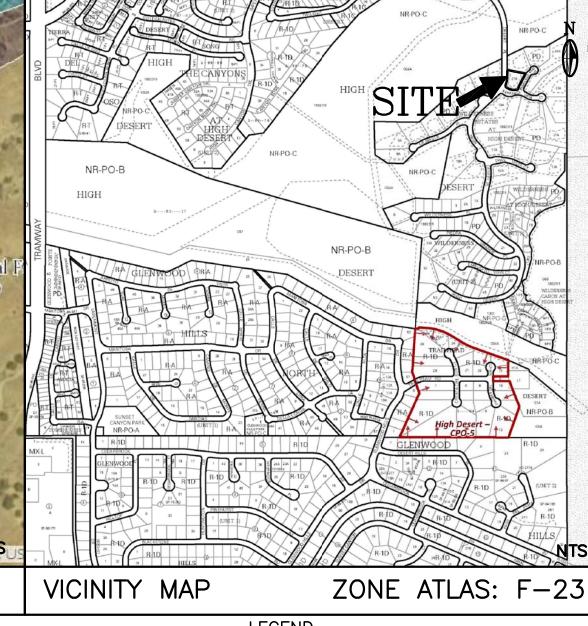
BASIN MAP

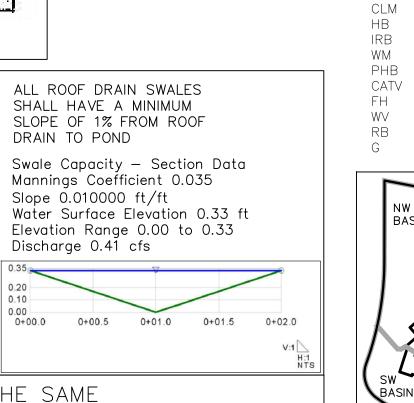
WEST POND VOLUME PROVIDED:

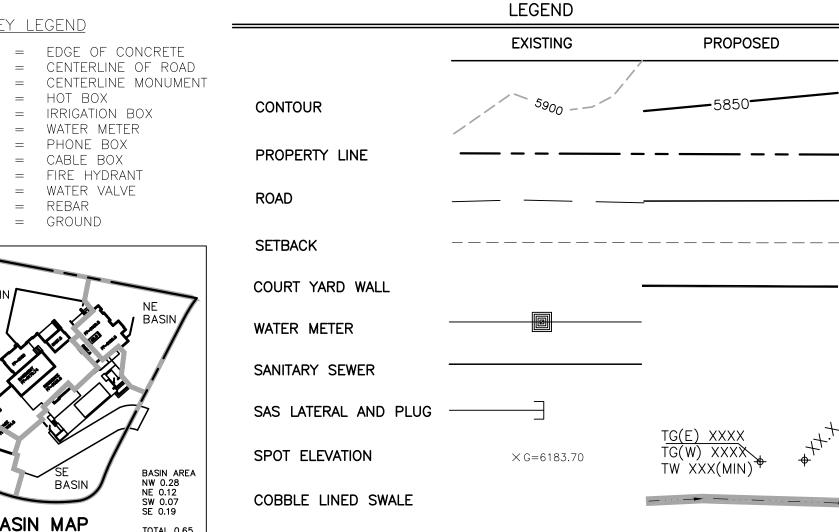
= GROUND

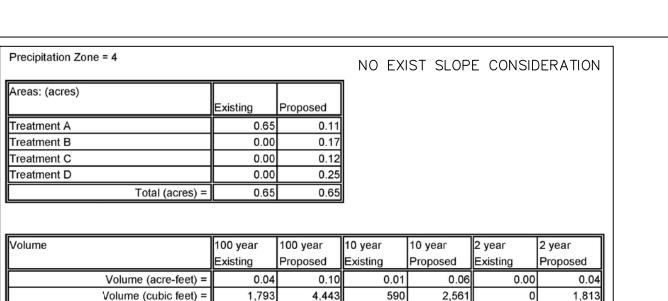
= PHONE BOX

= CABLE BOX









DRAIN TO POND

Discharge 0.41 cfs

FIRST FLUSH POND VOLUME REQUIRED = 0.65*0.34/12*43560 = 802 CF

100 year	100 year	10 year	10 year	2 year	2 year
Existing	Proposed	Existing	Proposed	Existing	Proposed
Q(p)*A	Q(p)*A	Q(p)*A	Q(p)*A	Q(p)*A	Q(p)*A
1.36	0.23	0.46	0.08	0.00	0.00
0.00	0.46	0.00	0.22	0.00	0.05
0.00	0.41	0.00	0.23	0.00	0.10
0.00	1.20	0.00	0.76	0.00	0.47
1.36	2.30	0.46	1.28	0.00	0.62
	Existing Q(p)*A 1.36 0.00 0.00	Existing Q(p)*A Proposed Q(p)*A 0.23 0.00 0.46 0.00 0.41 0.00 1.20	Existing Q(p)*A Proposed Q(p)*A Q(p)*A Q(p)*A 1.36 0.23 0.46 0.00 0.46 0.00 0.00 0.41 0.00 0.00 1.20 0.00	Existing Q(p)*A	Existing Q(p)*A

EXIST SLOPE CONSID
Precipitation Zone = 4

Areas: (acres)	Existing	Proposed
Treatment A	0.13	0.11
Treatment B	0.52	0.17
Treatment C	0.00	0.12
Treatment D	0.00	0.25
Total (acres) =	0.65	0.65

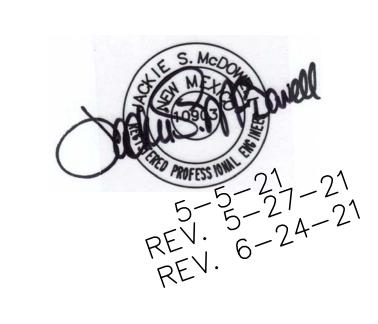
Volume	100 year	100 year	10 year	10 year	2 year	2 year
	Existing	Proposed	Existing	Proposed	Existing	Proposed
Volume (acre-feet) =	0.05	0.10	0.02	0.06	0.01	0.04
Volume (cubic feet) =	2,152	4,443	892	2,561	529	1,813
FIRST FLUSH POND VOLUME REQUIRED = 0.65*0.34/12*43560 = 802 CF						

Total Q(p), cfs:						
	100 year	100 year	10 year	10 year	2 year	2 year
	Existing	Proposed	Existing	Proposed	Existing	Proposed
	Q(p)*A	Q(p)*A	Q(p)*A	Q(p)*A	Q(p)*A	Q(p)*A
Treatment A	0.27	0.23	0.09	0.08	0.00	0.00
Treatment B	1.42	0.46	0.67	0.22	0.15	0.05
Treatment C	0.00	0.41	0.00	0.23	0.00	0.10
Treatment D	0.00	1.20	0.00	0.76	0.00	0.47
Total Q (cfs) =	1.69	2.30	0.76	1.28	0.15	0.62

ELEV	AREA	VOL
6184	492	
		329
6183	165	
		83
6182	0	
	SUB TOTAL	411
		CF
NE DOND	VOLUME PROVII	DED:
6183	295	JED.
0103	295	202
6480	100	202
6182	109	
0404	•	55
6181	0	057
	SUB TOTAL	257
		CF
SW POND	VOLUME PROVI	DED:
ELEV	AREA	VOL
6180	200	
6180	200	104
6180 6179	200 8	104
	8	
		104 104 CF
	8	104
6179	8	104 CF
6179	8 SUB TOTAL	104 CF
6179 SE POND	8 SUB TOTAL VOLUME PROVI	104 CF DED:
6179 SE POND V	8 SUB TOTAL VOLUME PROVII AREA	104 CF DED:
6179 SE POND V	8 SUB TOTAL VOLUME PROVII AREA	104 CF DED: VOL
6179 SE POND V ELEV 6181	8 SUB TOTAL VOLUME PROVII AREA 627	104 CF DED: VOL
6179 SE POND V ELEV 6181	8 SUB TOTAL VOLUME PROVII AREA 627 287	104 CF DED: VOL 457
6179 SE POND V ELEV 6181	8 SUB TOTAL VOLUME PROVII AREA 627 287	104 CF DED: VOL 457
6179 SE POND V ELEV 6181	8 SUB TOTAL VOLUME PROVID AREA 627 287 SUB TOTAL	104 CF DED: VOL 457

ı			FF POND VOL.	FF POND
II	BASIN	AREA	REQUIRED	VOL.PROVIDED
II	NW	0.28	346	411
II	NE	0.12	148	257
ı	SW	0.07	86	104
	SE	0.18	234	457
ı	TOTAL	0.65	802	1229

NOTE: CONTRACTOR SHALL USE AN ESTABLISHED BENCH MARK TO SET BUILDING ELEVATIONS. CENTERLINE MONUMENTATION ELEVATIONS ARE AVAILABLE FROM HIGH DESERT CORP.



5501 BARRANCA OSO CT NE, ALBUQUERQUE, NM 87111	
CITY OF ALBUQUERQUE, BERNALILLO COUNTY	NEW MEXICO
LOT #27-A WILDERNESS ESTATES AT HIGH	DESERT

RAISSY (MIKE CABBER, DESIGNER) - GRADING & DRAINAGE PLAN

7820 Beverly Hills Ave. NE, Albuquerque, NM 87122 Tele: 505-828-2430 Checked JSM signed JSM Drawn STAFF APRIL,2021