Weighted E Method

Basin	Area (sf)	Area (acres)	Treatment A (acres)	Treatment A %	Treatment B (acres)	Treatment B %	Treatment C (acres)	Treatment C %	Treatment D (acres)	Treatment D %	Weighted E	100-Year, 6-hr. Volume (ac-ft)	100-Year, 6-hr. Flow cfs
ALLOWED	21367.00	0.491	0%	0	20%	0.098	46%	0.2256	34%	0.167	1.379	0.056	1.55
PROPOSED	21367.00	0.491	0%	0	20%	0.098	47%	0.2305	33%	0.162	1.365	0.056	1.54
COMPARISON												-0.001	

Equations:

Weighted E = Ea*Aa + Eb*Ab + Ec*Ac + Ed*Ad / (Total Area)

Volume = Weighted D * Total Area

Flow = Qa * Aa + Qb * Ab + Qc * Ac + Qd * Ad

Where for 100-year, 6-hour storm- zone 1

Ea= 0.55	Qa= 1.54
Eb= 0.73	Qb= 2.16
Ec= 0.95	Qc= 2.87
Ed= 2.34	Qd= 4.12

ONSITE Conditons
FIRST FLUSH WATER QUALITY VOLUME

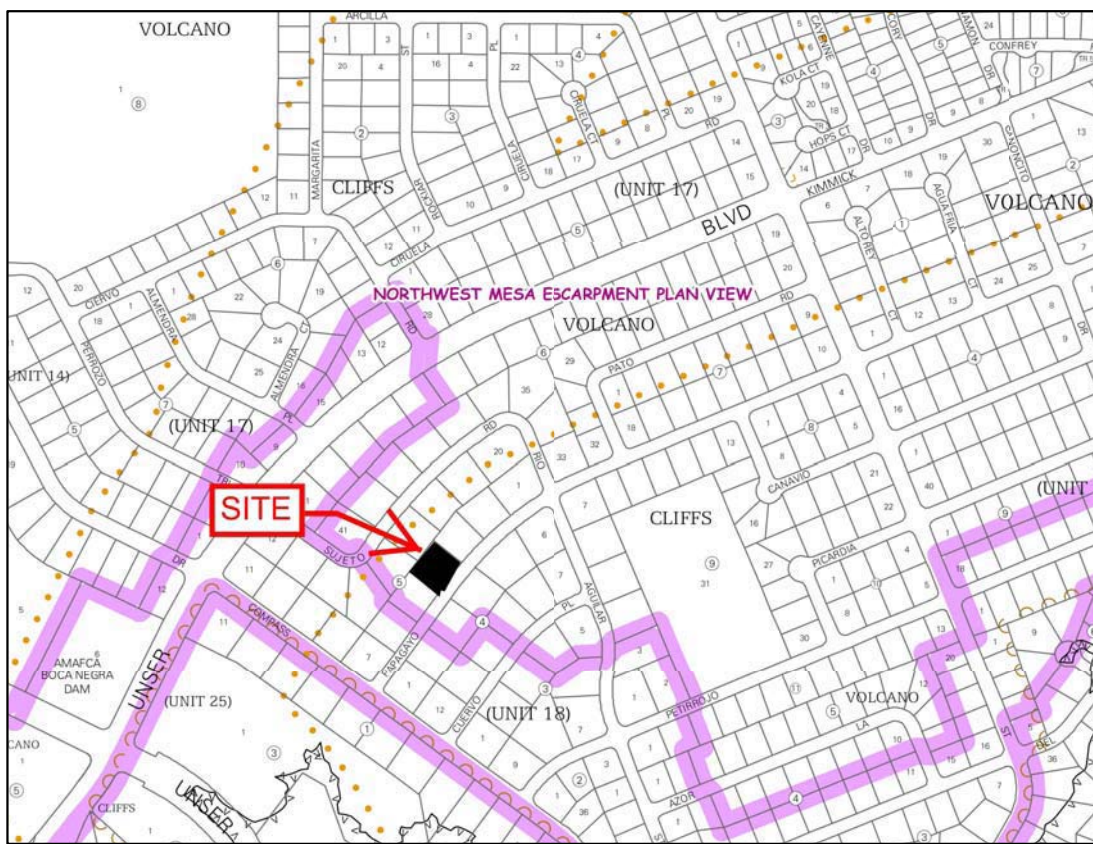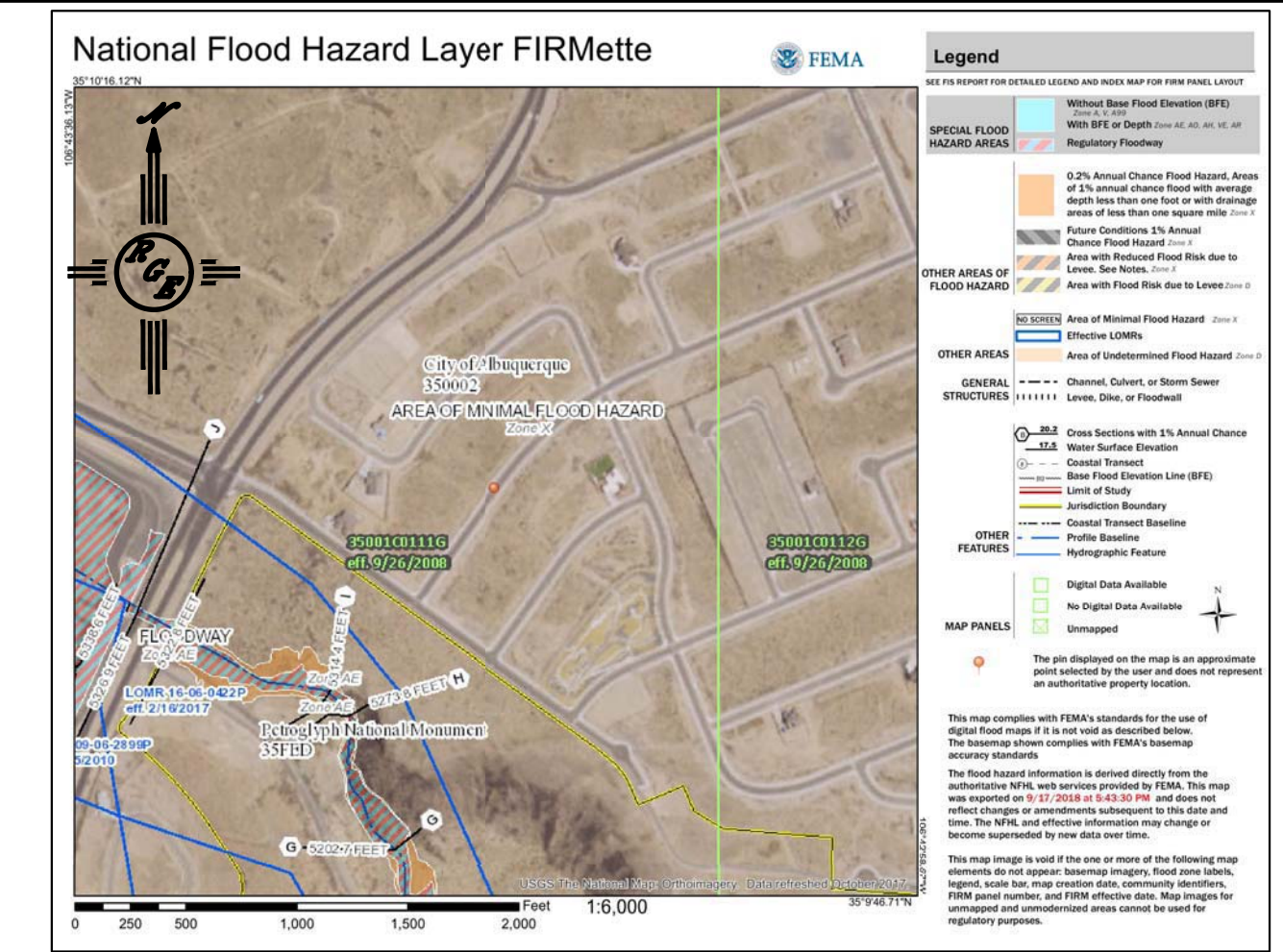|	REQUIRED (CF)	PROVIDED (CF)
WATER QUALITY	200	1159
FLOOD CONTROL	NA	1159

Narrative

This site is within the SAD 226 Master Drainage plan boundaries. The site is to maintain existing patterns and drain to the the adjacent roadway lot to east per the master drainage plan. We are ponding the water harvest volume generated by the site there is not measurable upland flow. This plan does not exceed the allowed impervious area. Onsite water harvesting is proposed This plan is in conformance to the master drainage plan

CAUTION:
EXISTING UTILITIES ARE NOT SHOWN.
IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES & OTHER IMPROVEMENTS.

EROSION CONTROL NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.

2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.

3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.

4. REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.

5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL ACCEPTANCE OF ANY PROJECT.

VICINITY MAP: D-10-Z

National Flood Hazard Layer FIRMette

FIRM MAP:

LEGAL DESCRIPTION:
LOT 4, BLOCK 5, VOLCANO CLIFFS SUBDIVISION, UNIT 18 BERNALILLO COUNTY ALBUQUERQUE, NEW MEXICO

NOTES:
1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.

2. ALL SLOPES SHALL BE 3:1 MAX. AND GRAVEL OR NATIVE SEEDING PRIOR TO CO.

3. ANY PERIMETER WALLS MUST BE PERMITED SEPARATELY. ALL RETAINING WALL DESIGN SHALL BE BY OTHERS.

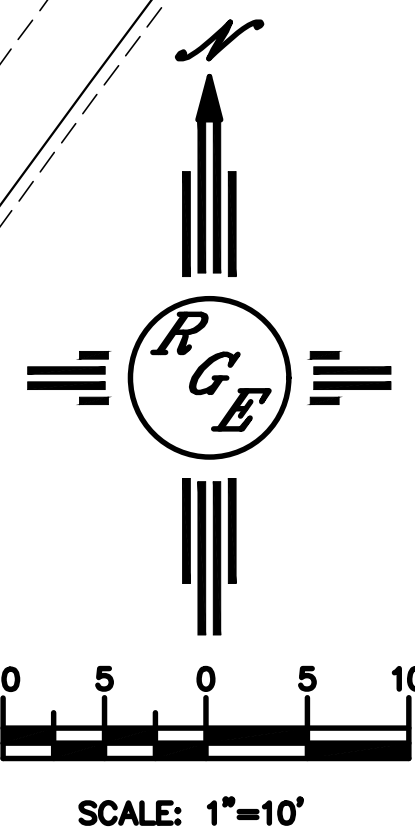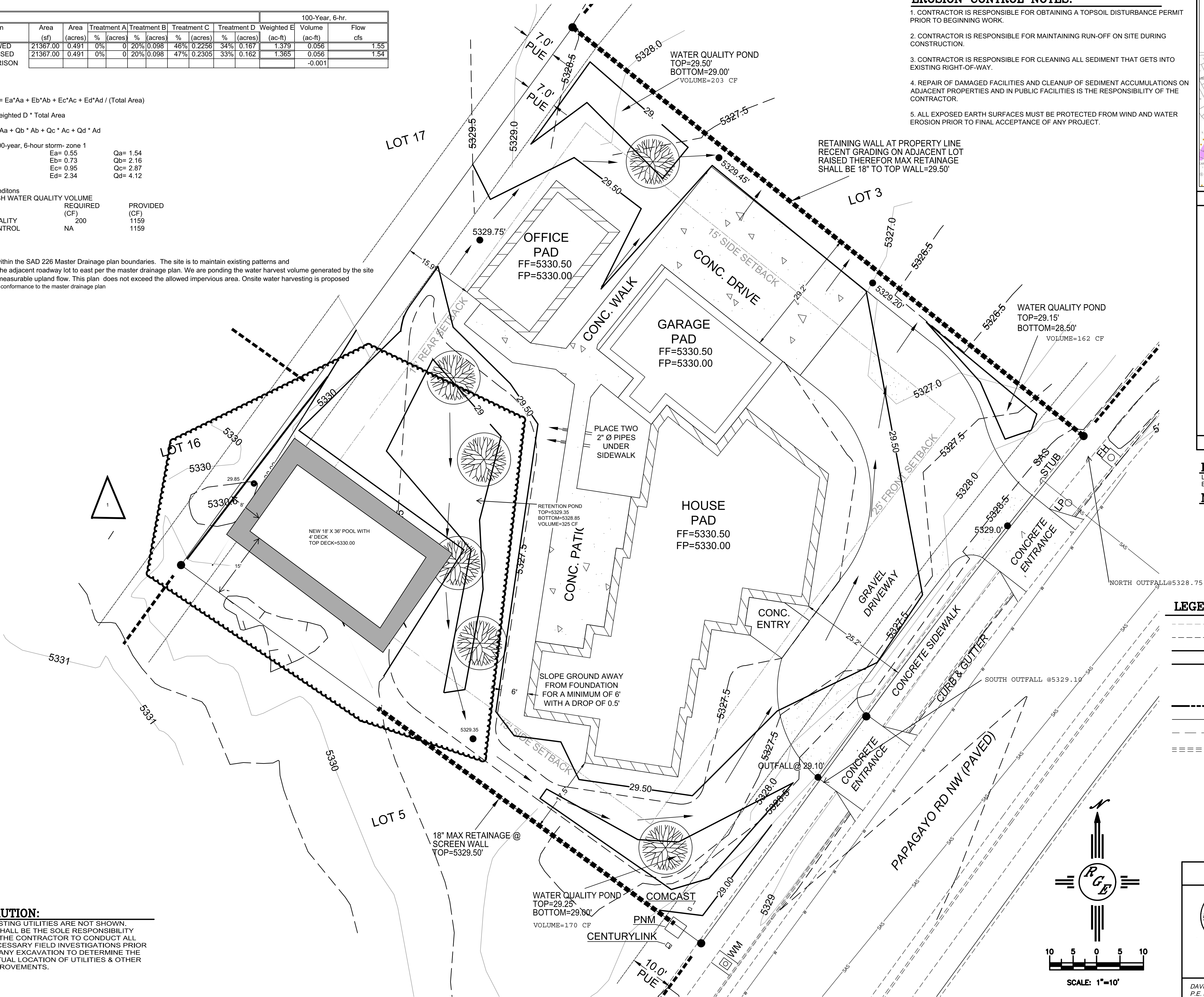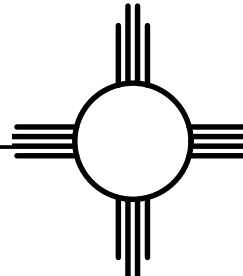4. SURVEY INFORMATION PROVIDED BY COMMUNITY SCIENCES CORPORATION USING NAVD DATUM 1988.

LEGEND

Symbol	Description
—XXXX—	EXISTING CONTOUR
—XXXX—	EXISTING INDEX CONTOUR
—XXXX—	PROPOSED CONTOUR
—XXXX—	PROPOSED INDEX CONTOUR
× XXXX	EXISTING SPOT ELEVATION
● XXXX	PROPOSED SPOT ELEVATION
	BOUNDARY
	PROPOSED EARTHEN SWALE
	ADJACENT BOUNDARY
=========	EXISTING CURB AND GUTTER

△1 ADDED POOL AND UPDATED CALCULATIONS 8/21/23

Site plan labels

WATER QUALITY POND TOP=29.50' BOTTOM=29.00' VOLUME=203 CF

RETAINING WALL AT PROPERTY LINE RECENT GRADING ON ADJACENT LOT RAISED THEREFOR MAX RETAINAGE SHALL BE 18" TO TOP WALL=29.50'

WATER QUALITY POND TOP=29.15' BOTTOM=28.50' VOLUME=162 CF

OFFICE PAD FF=5330.50 FP=5330.00

GARAGE PAD FF=5330.50 FP=5330.00

HOUSE PAD FF=5330.50 FP=5330.00

PLACE TWO 2" Ø PIPES UNDER SIDEWALK

NEW 18' X 36' POOL WITH 4' DECK TOP DECK=5330.00

RETENTION POND TOP=5329.35 BOTTOM=5328.85 VOLUME=325 CF

SLOPE GROUND AWAY FROM FOUNDATION FOR A MINIMUM OF 6' WITH A DROP OF 0.5'

18" MAX RETAINAGE @ SCREEN WALL TOP=5329.50'

WATER QUALITY POND TOP=29.25' BOTTOM=29.00' VOLUME=170 CF

NORTH OUTFALL@5328.75
SOUTH OUTFALL @5329.10
OUTFALL@ 29.10
OUTFALL@ 29.10

CONC. WALK
CONC. DRIVE
CONC. PATIO
CONC. ENTRY
CONC. ENTRANCE
CONCRETE ENTRANCE
CONCRETE SIDEWALK
CONCRETE ENTRANCE
GRAVEL DRIVEWAY
CURB & GUTTER
PAPAGAYO RD NW (PAVED)

LOT 17, LOT 3, LOT 16, LOT 5

7.0' PUE
15' SIDE SETBACK
25' FROM SETBACK
REAR SETBACK
SIDE SETBACK
10.0' PUE

COMCAST
PNM
CENTURYLINK
SAS STUB
WM
FH
LP

SCALE: 1"=10'

Title Block

ENGINEER'S SEAL	**6611 PAPAGAYO RD NW HINCHMAN RESIDENCE**

DAVID SOULE NEW MEXICO 14522 REGISTERED PROFESSIONAL ENGINEER

DRAWN BY DEM
DATE 9-18-18
HINCHMAN GRD PLAN 9-18-18.DWG

GRADING AND DRAINAGE PLAN

Rio Grande Engineering
1606 CENTRAL AVENUE SE
SUITE 201
ALBUQUERQUE, NM 87106
(505) 872-0999

8/21/23
9/19/18

DAVID SOULE P.E. #14522

SHEET # C1
JOB #