

CITY OF ALBUQUERQUE

Planning Department
Brennon Williams, Director



Mayor Timothy M. Keller

June 10, 2021

David Soule, P.E.
Rio Grande Engineering
PO Box 93924
Albuquerque, New Mexico 87199

RE: **Lot 2 Block 2 Volcano Cliffs Unit 18 SAD 228**
6612 Petirrojo Rd. NW
Grading and Drainage Plan
Engineers Stamp Date 4/27/2021 (D10D003G2P)
Pad Certification Date 6/8/2021

Mr. Soule,

Based upon the information provided in your submittal received 6/9/2021, this plan is approved for Building Permit.

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

Reiterate to the Owner/Contractor that a separate permit for a garden/retaining wall must be obtained, with the approved G&D plan and Pad Certification. Also, let the owner/contractor know that if a pool is to be added in the future the G&D plan will need to be modified showing the location of the pool and the land treatment differences.

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

If you have any questions, please contact me at 924-3986 or Rudy Rael at 924-3977.

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 6/2018)

Project Title: 6612 Petirrojo NW **Building Permit #:** _____ **Hydrology File #:** _____
DRB#: _____ **EPC#:** _____ **Work Order#:** _____
Legal Description: LOT 2 BLOCK 2 VOLCANO CLIFFS UNIT 18
City Address: 6612 Petirrojo NW

Applicant: _____ **Contact:** _____
Address: _____
Phone#: _____ **Fax#:** _____ **E-mail:** _____

Other Contact: RIO GRANDE ENGINEERING **Contact:** DAVID SOULE
Address: PO BOX 93924 ALB NM 87199
Phone#: 505.321.9099 **Fax#:** 505.872.0999 **E-mail:** david@riograndeengineering.com

TYPE OF DEVELOPMENT: _____ PLAT ☒ RESIDENCE _____ DRB SITE _____ ADMIN SITE

Check all that Apply:

DEPARTMENT:
☒ HYDROLOGY/ DRAINAGE
_____ TRAFFIC/ TRANSPORTATION

TYPE OF SUBMITTAL:
_____ ENGINEER/ARCHITECT CERTIFICATION
☒ PAD CERTIFICATION
_____ CONCEPTUAL G & D PLAN
_____ GRADING PLAN
_____ DRAINAGE REPORT
_____ DRAINAGE MASTER PLAN
_____ FLOODPLAIN DEVELOPMENT PERMIT APPLIC
_____ ELEVATION CERTIFICATE
_____ CLOMR/LOMR
_____ TRAFFIC CIRCULATION LAYOUT (TCL)
_____ TRAFFIC IMPACT STUDY (TIS)
_____ STREET LIGHT LAYOUT
_____ OTHER (SPECIFY) _____
_____ PRE-DESIGN MEETING?

IS THIS A RESUBMITTAL?: ☒ Yes _____ No

TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

☒ BUILDING PERMIT APPROVAL
_____ CERTIFICATE OF OCCUPANCY
_____ PRELIMINARY PLAT APPROVAL
_____ SITE PLAN FOR SUB'D APPROVAL
_____ SITE PLAN FOR BLDG. PERMIT APPROVAL
_____ FINAL PLAT APPROVAL
_____ SIA/ RELEASE OF FINANCIAL GUARANTEE
_____ FOUNDATION PERMIT APPROVAL
_____ GRADING PERMIT APPROVAL
_____ SO-19 APPROVAL
_____ PAVING PERMIT APPROVAL
_____ GRADING/ PAD CERTIFICATION
_____ WORK ORDER APPROVAL
_____ CLOMR/LOMR
_____ FLOODPLAIN DEVELOPMENT PERMIT
_____ OTHER (SPECIFY) _____

DATE SUBMITTED: _____ **By:** _____

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____

Weighted E Method

| Basin | Area (sf) | Area (acres) | Treatment | | | | | | | | 100-Year, 6-hr. | | 24 hour |
|------------|--------------|-----------------|-----------|----|-----|-------|-----|--------|-----|-------|-------------------|-------------|-------------------|
| | | | % | % | % | % | % | % | % | % | Volume (ac-ft) | Flow cfs | Volume (ac-ft) |
| ALLOWED | 14096.00 | 0.324 | 0% | 0% | 20% | 0.065 | 46% | 0.1489 | 34% | 0.110 | 1.259 | 0.034 | 1.04 |
| PROPOSED | 14096.00 | 0.324 | 0% | 0% | 20% | 0.065 | 43% | 0.1391 | 37% | 0.120 | 1.289 | 0.035 | 0.71 |
| COMPARISON | | | | | | | | | | | 0.001 | | #REF! |

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

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

| | |
|----------|----------|
| Ea= 0.44 | Qa= 1.29 |
| Eb= 0.67 | Qb= 2.03 |
| Ec= 0.99 | Qc= 2.87 |
| Ed= 1.97 | Qd= 4.37 |

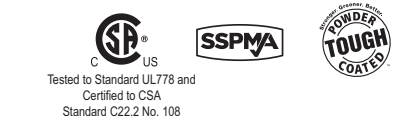
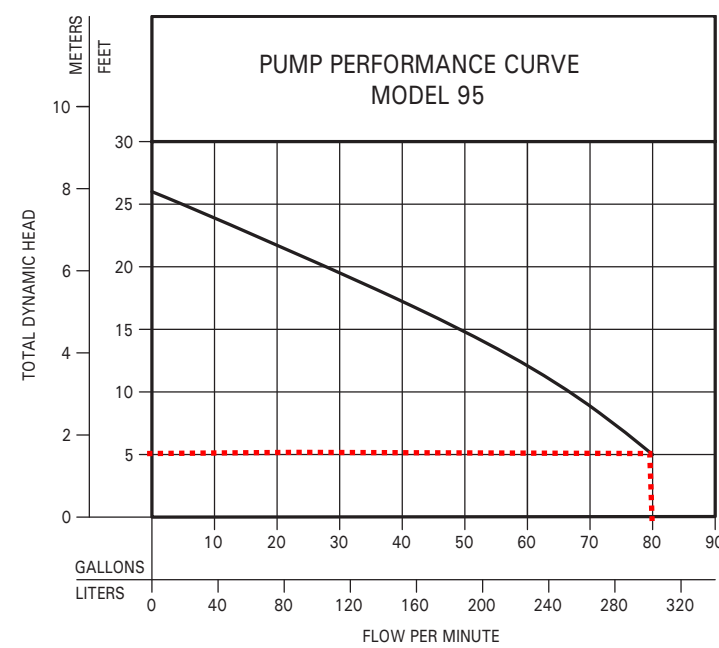
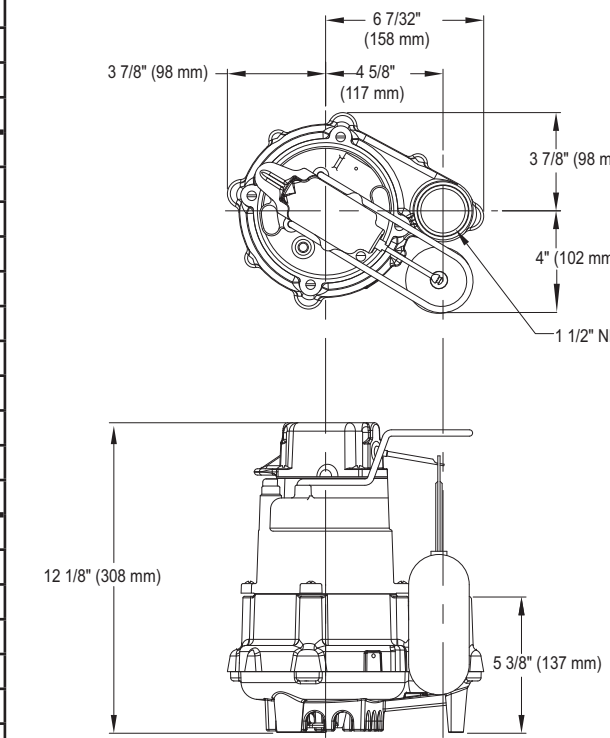
ONSITE Conditions
DRAINAGE SUMMARY

| | REQUIRED (CF) | PROVIDED (CF) |
|--------------------------|------------------|------------------|
| WATER QUALITY | 0 | 1804 |
| FLOOD CONTROL(ENTIRELOT) | 1714 (24-hour) | 1804 |
| Narrative | | |

This site is within the SAD 228 Master Drainage plan boundaries. The site is to maintain existing patterns and drain to the south per the master drainage plan. The site does exceed the SAD 228 developed conditions assumptions, therefore ponding of 66 cfs is required Based upon height restrictions, the pad can not be built to drain to the roadway, therefore the yard will retain the entire 198 cf generated. A sump pump will be installed to drain the yard to the street. The pump will discarche at .17 cf to the front discharging to the roadway. Existing wall appears to prevent cross lot drainage. This plan is in conformance to the master drainage plan

PRODUCT SPECIFICATIONS

| MOTOR | Horse Power | 1/2 |
|-----------|----------------------|----------------------------------|
| | Voltage | 115 |
| | Phase | 1 Ph |
| | Hertz | 60 Hz |
| | RPM | 3450 |
| PUMP | Type | Permanent split capacitor |
| | Insulation | Class B |
| | Amps | 10.5 |
| | Operation | Automatic |
| | Auto On/Off Points | 9-1/2" (24 cm) / 2-1/2" (6.4 cm) |
| MATERIALS | Discharge Size | 1-1/2" NPT |
| | Solids Handling | 1/2" (12 mm) spherical solids |
| | Cord Length | 15' (4.6 m) |
| | Cord Type | UL listed, 3-wire, grounded plug |
| | Max. Head | 26' (7.9 m) |
| | Max. Flow Rate | 80 GPM (303 LPM) |
| | Max. Operating Temp. | 130° F (54° C) |
| | Cooling | Oil filled |
| | Motor Protection | Auto reset thermal overload |
| | Cap | Cast iron |
| | Motor Housing | Cast iron |
| | Pump Housing | Cast iron |
| | Base | Cast iron |
| | Upper Bearing | Sleeve bearing |
| | Lower Bearing | Ball bearing |
| | Mechanical Seals | Carbon and ceramic |
| | Impeller Type | Non-clogging vortex |
| | Impeller | Engineered thermoplastic |
| | Hardware | Stainless steel |
| | Motor Shaft | AISI 1215 cold rolled steel |
| | Gasket | Neoprene |



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502-778-2731 | 800-928-7867 | 3649 Cane Run Road | Louisville, KY 40211-1961 | zoellerpumps.com

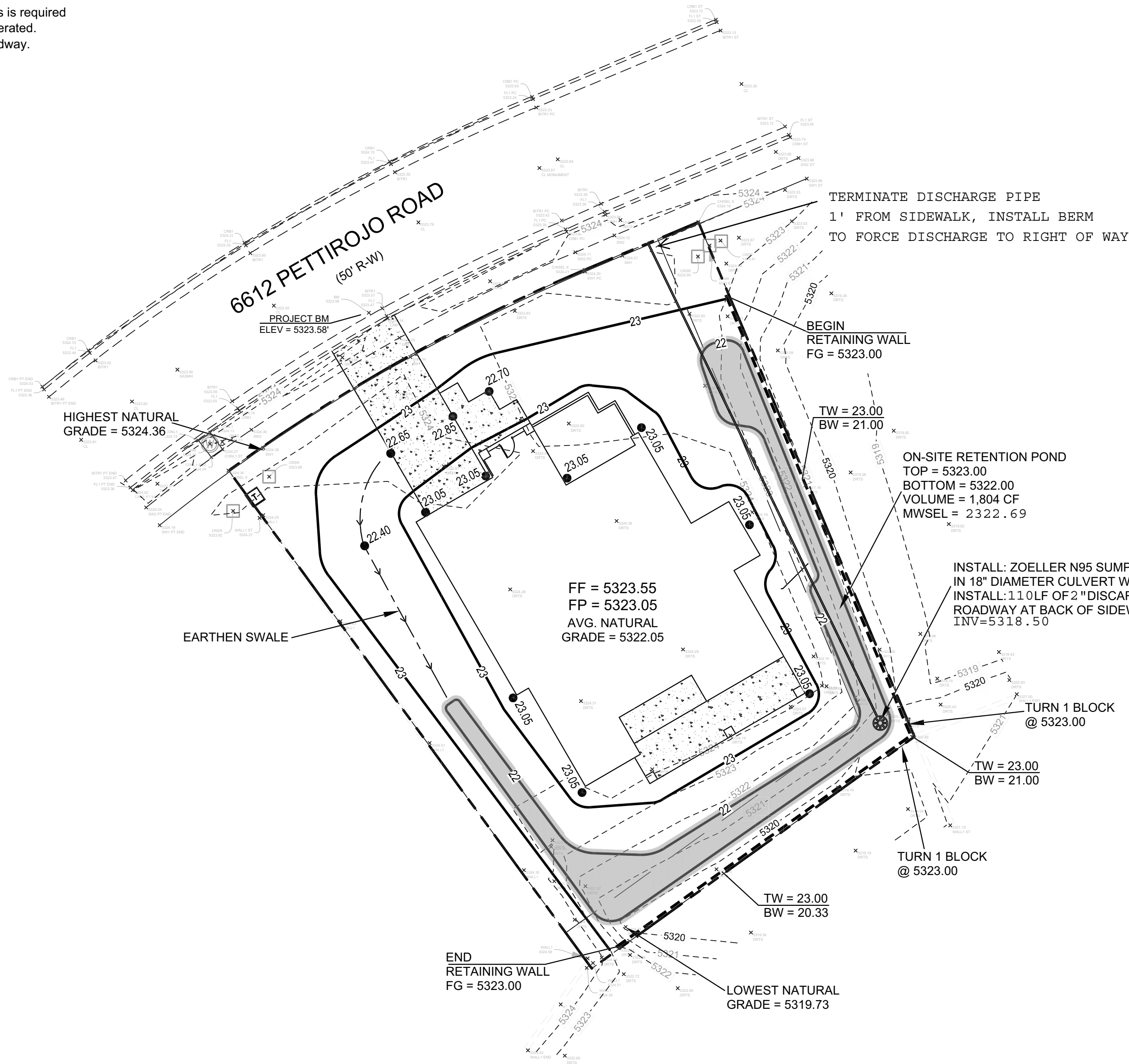
CAUTION:

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.

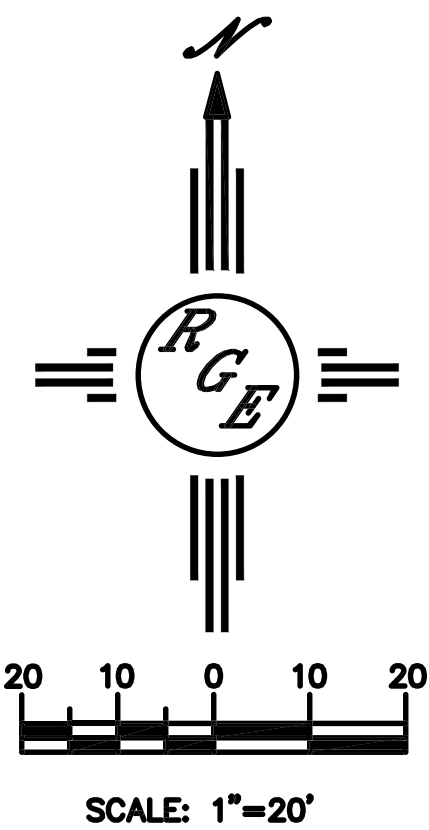
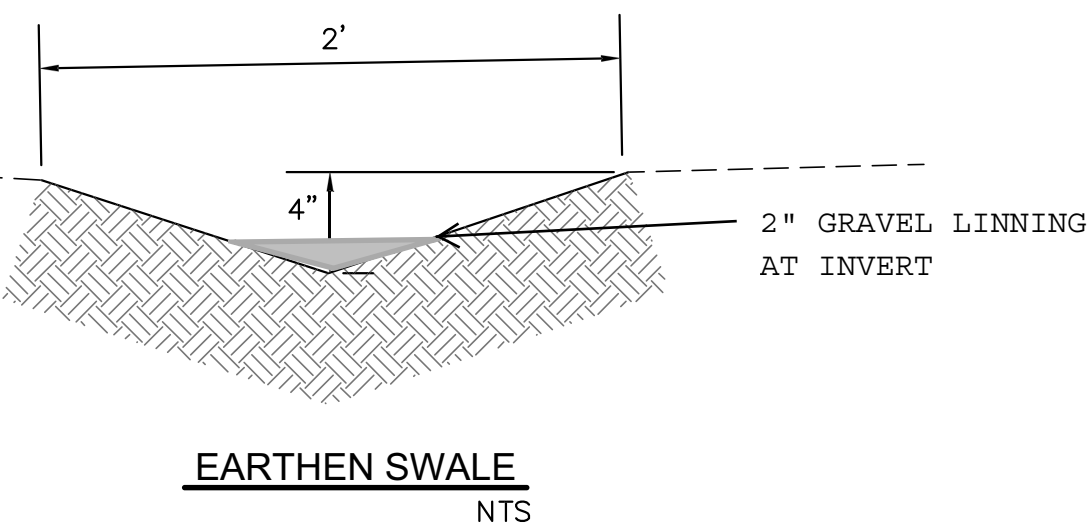
I, DAVID SOULE HAVE PERSONALLY INPECTED THE SITE. I HEREBY CERTIFY THE PAD HAS BEEN CONSTRUCTED SUCH THAT IT IS IN SUBSTANTIAL CONFORMANCE TO THE APPROVED GRADING PLAN DATED 4/27/21



6/8/21

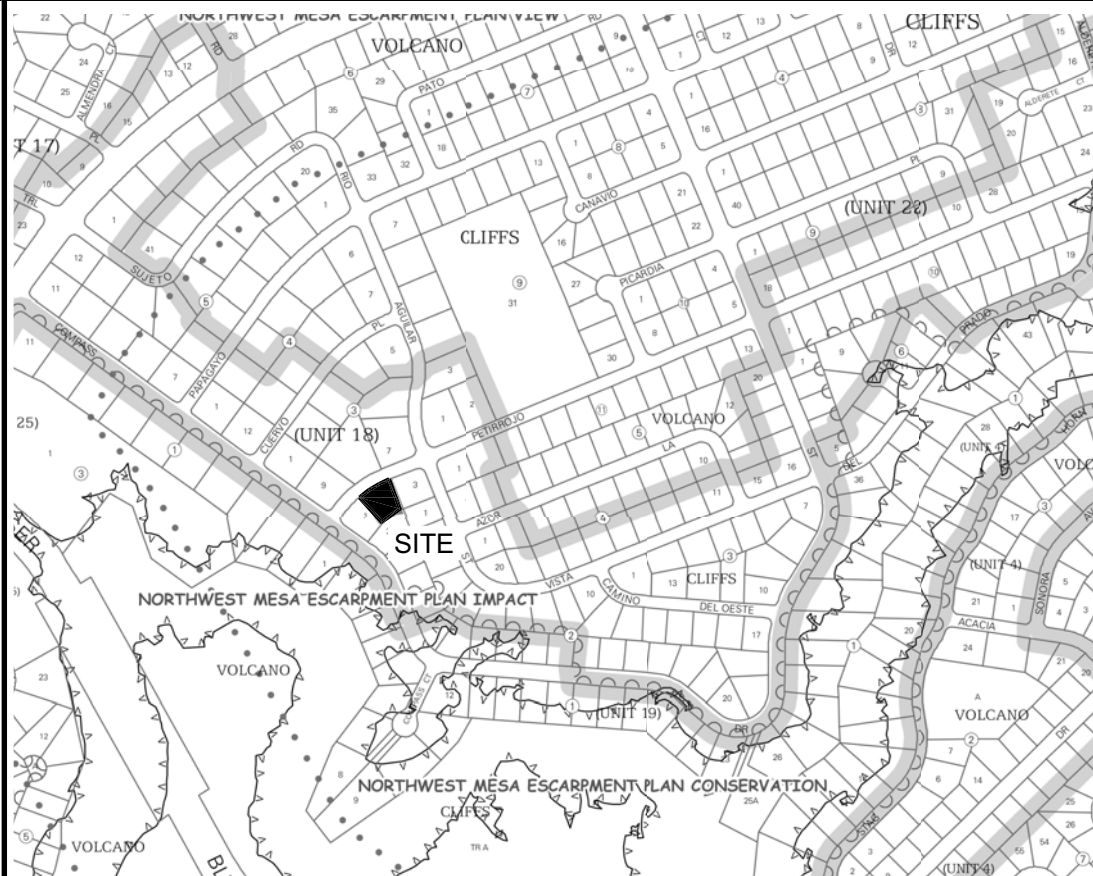


CONSTRUCT ALL SWALES AND EROSION PROTECTION (SHOWN HATCHED) BELOW ADJACENT GRADE TO ENSURE RUNOFF CAN BE CAPTURED AND CONVEYED PROPERLY.

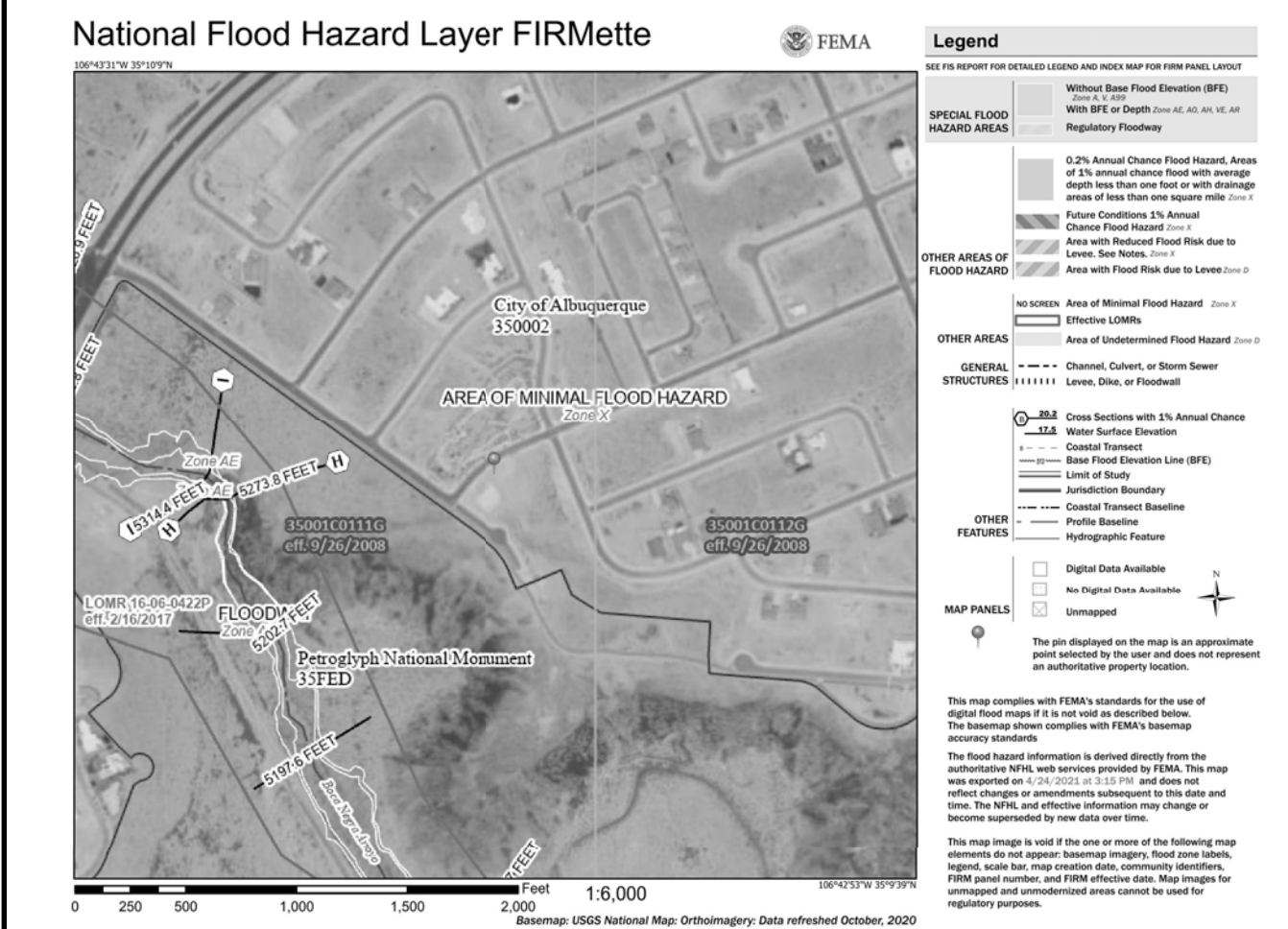


EROSION CONTROL NOTES:

- CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
- REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL ACCEPTANCE OF ANY PROJECT.



VICINITY MAP: D-10-Z



FIRM MAP:

LEGAL DESCRIPTION:

LOT 2 BLOCK 2 UNIT 18 VOLCANO CLIFFS SUBDIVISION
CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

NOTES:

- ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
- ALL SLOPES SHALL BE 3:1 MAX. AND GRAVEL OR NATIVE SEEDING PRIOR TO CO.
- ANY PERIMETER WALLS MUST BE PERMITTED SEPARATELY ALL RETAINING WALL DESIGN SHALL BE BY OTHERS.
- SURVEY INFORMATION PROVIDED BY COMMUNITY SCIENCES CORPORATION USING NAVD DATUM 1988.
- A PAD ELEVATION CERTIFICATION SHALL BE REQUIRED PRIOR TO RELEASE OF BUILDING PERMIT.

LEGEND

| | |
|--------|--------------------------|
| --- | EXISTING CONTOUR |
| --- | EXISTING INDEX CONTOUR |
| --- | PROPOSED CONTOUR |
| --- | PROPOSED INDEX CONTOUR |
| + XXXX | EXISTING SPOT ELEVATION |
| ● XXXX | PROPOSED SPOT ELEVATION |
| --- | BOUNDARY |
| --- | ADJACENT BOUNDARY |
| == | EXISTING CURB AND GUTTER |
| --- | PROPOSED EARTHEN SWALE |
| --- | PROPOSED RETAINING WALL |
| --- | PROPOSED CONCRETE |
| --- | PROPOSED PONDING |

| | | |
|--|---|---|
| ENGINEER'S SEAL DAVID SOULE NEW MEXICO 14522 REGISTERED PROFESSIONAL ENGINEER 4/27/21 DAVID SOULE P.E. #14522 | Lot 2 Blk 2 Un 18 VC 6612 PETTIROJO ROAD GRADING AND DRAINAGE PLAN P.O. BOX 53924 ALBUQUERQUE, NM 87199 (505) 321-9099 | DRAWN BY DEM DATE 4-26-21 Lot 2 Blk 2 Un 18 VC.dwg SHEET # C1 JOB # |
|--|---|---|