

# CITY OF ALBUQUERQUE

*Planning Department*  
Brennon Williams, Director



*Mayor Timothy M. Keller*

June 21, 2021

Sheldon Greer, P.E.  
RESPEC  
5971 Jefferson St. NE Suite 101  
Albuquerque, New Mexico 87109

**RE: Lot 8 Block 1 Volcano Cliffs Unit 22 SAD 228  
8016 Alto Rey Ct. NW  
Grading and Drainage Plan  
Engineers Stamp Date: 10/29/2020 (D10D003N8)  
Pad Certification Date: 5/10/21**

Mr. Greer,

PO Box 1293

Based upon the information provided in your submittal received 5/14/2021, this plan cannot be approved for Grading Permit until the following comments are addressed.

Albuquerque

- Provide the approval letter or email given by Doug Hughes.

NM 87103

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

Sincerely,

www.cabq.gov

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:** \_\_\_\_\_ **Building Permit #:** \_\_\_\_\_ **Hydrology File #:** \_\_\_\_\_

**DRB#:** \_\_\_\_\_ **EPC#:** \_\_\_\_\_ **Work Order#:** \_\_\_\_\_

**Legal Description:** \_\_\_\_\_

**City Address:** \_\_\_\_\_

**Applicant:** \_\_\_\_\_ **Contact:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**Phone#:** \_\_\_\_\_ **Fax#:** \_\_\_\_\_ **E-mail:** \_\_\_\_\_

**Owner:** \_\_\_\_\_ **Contact:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**Phone#:** \_\_\_\_\_ **Fax#:** \_\_\_\_\_ **E-mail:** \_\_\_\_\_

**TYPE OF SUBMITTAL:** \_\_\_\_\_ PLAT (\_\_\_\_# OF LOTS) \_\_\_\_\_ RESIDENCE \_\_\_\_\_ DRB SITE \_\_\_\_\_ ADMIN SITE

**IS THIS A RESUBMITTAL?:** \_\_\_\_\_ Yes \_\_\_\_\_ No

**DEPARTMENT:** \_\_\_\_\_ TRAFFIC/ TRANSPORTATION \_\_\_\_\_ HYDROLOGY/ DRAINAGE

Check all that Apply:

### TYPE OF SUBMITTAL:

- \_\_\_\_\_ ENGINEER/ARCHITECT CERTIFICATION
- \_\_\_\_\_ PAD CERTIFICATION
- \_\_\_\_\_ CONCEPTUAL G & D PLAN
- \_\_\_\_\_ GRADING PLAN
- \_\_\_\_\_ DRAINAGE MASTER PLAN
- \_\_\_\_\_ DRAINAGE REPORT
- \_\_\_\_\_ FLOODPLAIN DEVELOPMENT PERMIT APPLIC
- \_\_\_\_\_ ELEVATION CERTIFICATE
- \_\_\_\_\_ CLOMR/LOMR
- \_\_\_\_\_ TRAFFIC CIRCULATION LAYOUT (TCL)
- \_\_\_\_\_ TRAFFIC IMPACT STUDY (TIS)
- \_\_\_\_\_ OTHER (SPECIFY) \_\_\_\_\_
- \_\_\_\_\_ PRE-DESIGN MEETING?

### 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: \_\_\_\_\_

|                         |           |             |
|-------------------------|-----------|-------------|
| Site Area               | (sq. ft.) | 16100       |
| House Area              | (sq. ft.) | 4840        |
| Driveway Area           | (sq. ft.) | 500         |
| Other Imp Area          | (sq. ft.) | 1500        |
| <b>Total Imp. Area:</b> |           | <b>6840</b> |

|              | AREA<br>(SF) | % AREA        | Q100<br>/ACRE<br>(CFS/AC.)<br>(1) | Q100<br>(CFS)<br>(2) | DMP<br>Q100<br>AREA<br>(cfs)<br>(3) | DMP<br>Q100<br>AREA<br>(cfs)<br>(4) | LOT<br>AREA<br>(sq. ft.)<br>(5) | LOT<br>AREA<br>(sq. ft.)<br>(6) | FRONT<br>LOT<br>(cfs)<br>(7) | REAR<br>LOT<br>(cfs)<br>(8) |
|--------------|--------------|---------------|-----------------------------------|----------------------|-------------------------------------|-------------------------------------|---------------------------------|---------------------------------|------------------------------|-----------------------------|
| A            | 0            | 0.0%          | 3.29                              | 0.00                 | 10.0%                               | 0.00                                | 0                               | 0                               | 0.00                         | 0.00                        |
| B            | 4630         | 28.8%         | 2.03                              | 0.22                 | 10.0%                               | 0.08                                | 300                             | 4330                            | 0.01                         | 0.20                        |
| C            | 4630         | 28.8%         | 2.87                              | 0.31                 | 40.0%                               | 0.42                                | 300                             | 4330                            | 0.02                         | 0.29                        |
| D            | 6840         | 42.5%         | 4.37                              | 0.69                 | 50.0%                               | 0.81                                | 600                             | 6240                            | 0.06                         | 0.63                        |
| <b>TOTAL</b> | <b>16100</b> | <b>100.0%</b> | <b>1.21</b>                       |                      |                                     | <b>1.31</b>                         |                                 | <b>14900</b>                    | <b>0.09</b>                  | <b>1.11</b>                 |

**Existing Conditions:**  
The existing site is not within a designated flood zone. The site surface drains to the drainage channel on Lots 9 and 16.

0.45 Inches of runoff from Imp. Area

I, SHELDON GREER P.E., NMPE 17154, OF THE ENGINEERING FIRM RESPECTFULLY  
HEREBY CERTIFY, BASED ON SURVEY DATA PROVIDED BY BRIAN MARTINEZ, NMPE  
NMPRS 18374, THAT THE AS CONSTRUCTED PAD ELEVATION IS WITHIN 0.2 FEET  
OF THE DESIGN ELEVATION AND THAT THE HORIZONTAL LIMITS OF THE AS  
CONSTRUCTED PAD ARE AS SHOWN.

5/10/202  
DATE



35001C012G



D-10-Z

| <b>Percent Impervious<br/>(%)</b> | <b>Runoff Depth<br/>(inches)</b> | <b>Runoff Rate<br/>(cfs/ac)</b> | <b>Runoff Volume<br/>(cubic feet/ac)</b> |
|-----------------------------------|----------------------------------|---------------------------------|--|
| 0                                 | 0                                | 0                               | 0  |
| 20                                | 0.09                             | 0.5                             | 327                                      |
| 40                                | 0.18                             | 0.8                             | 653                                      |
| 60                                | 0.27                             | 1.2                             | 980                                      |
| 80                                | 0.36                             | 1.35                            | 1037                                     |
| 100                               | 0.46                             | 1.5                             | 1670                                     |

|           |           |           |       |
|-----------|-----------|-----------|-------|
| Site Area | Site Area | Imp. Area | % Imp |
| (sq. ft.) | (ac.)     | (Sq. ft.) |       |
| 16100     | 0.37      | 6840      | 42    |

|      | Runoff Vol.<br>(per ac.) |       |       |       |        |
|------|--------------------------|-------|-------|-------|--------|
|      | 0-20                     | 20-40 | 40-60 | 60-80 | 80-100 |
| 42.5 | 0                        | 0     | 693.6 | 0     | 0      |

Total Water Quality Volume Required: 25  
Provided: 39

0.45 Inches of runoff from Imp. Area

1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER THE CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREIN, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS, 1986 EDITION, UPDATE NO. 8 VOL. 1 AND 2 JANUARY 2011.
2. THE EROSION PROTECTION SPECIFIED THIS PLAN IS THE MINIMUM RECOMMENDED. THE OWNER IS ENCOURAGED TO INCORPORATE EROSION RESISTANT LANDSCAPING ON AREAS WHERE EROSION MAY OCCUR SUCH AS SLOPES AND SWALES. THE OWNER IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL FEATURES NECESSARY TO PRESERVE THE DESIGN INTENT OF THE GRADING PLAN.
3. THE DRAINAGE INFRASTRUCTURE SHOWN ON THIS PLAN IS THE RESPONSIBILITY OF THE PROPERTY OWNER.
4. ALL DISTURBED AREAS OUTSIDE THE BUILDING PAD MUST BE RESEED OR LANDSCAPED.
5. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, (260-1990) FOR LOCATION OF EXISTING UTILITIES.
6. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS AND EXISTING PAVEMENT. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY ENGINEER OR SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM OF DELAY.
7. GRADING SHOWN HEREIN ASSUMES THE CONCURRENT GRADING OF THE ADJACENT LOTS BELONGING TO THE SAME PROPERTY OWNER.

**NOTE:**  
THE ENGINEER HAS UNDERTAKEN LIMITED FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UNDERGROUND UTILITY LINES. MAKES NO REPRESENTATION PERTAINING THERETO AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE IN OR NEAR THE ARE OF WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY, AND PRESERVE ANY AND ALL EXISTING UTILITIES. THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, IN PLANNING AND CONDUCTING EXCAVATION, WHETHER BY CALLING OR NOTIFYING THE UTILITIES, COMPLYING WITH "BLUE STAKES" PROCEDURES, OR OTHERWISE.

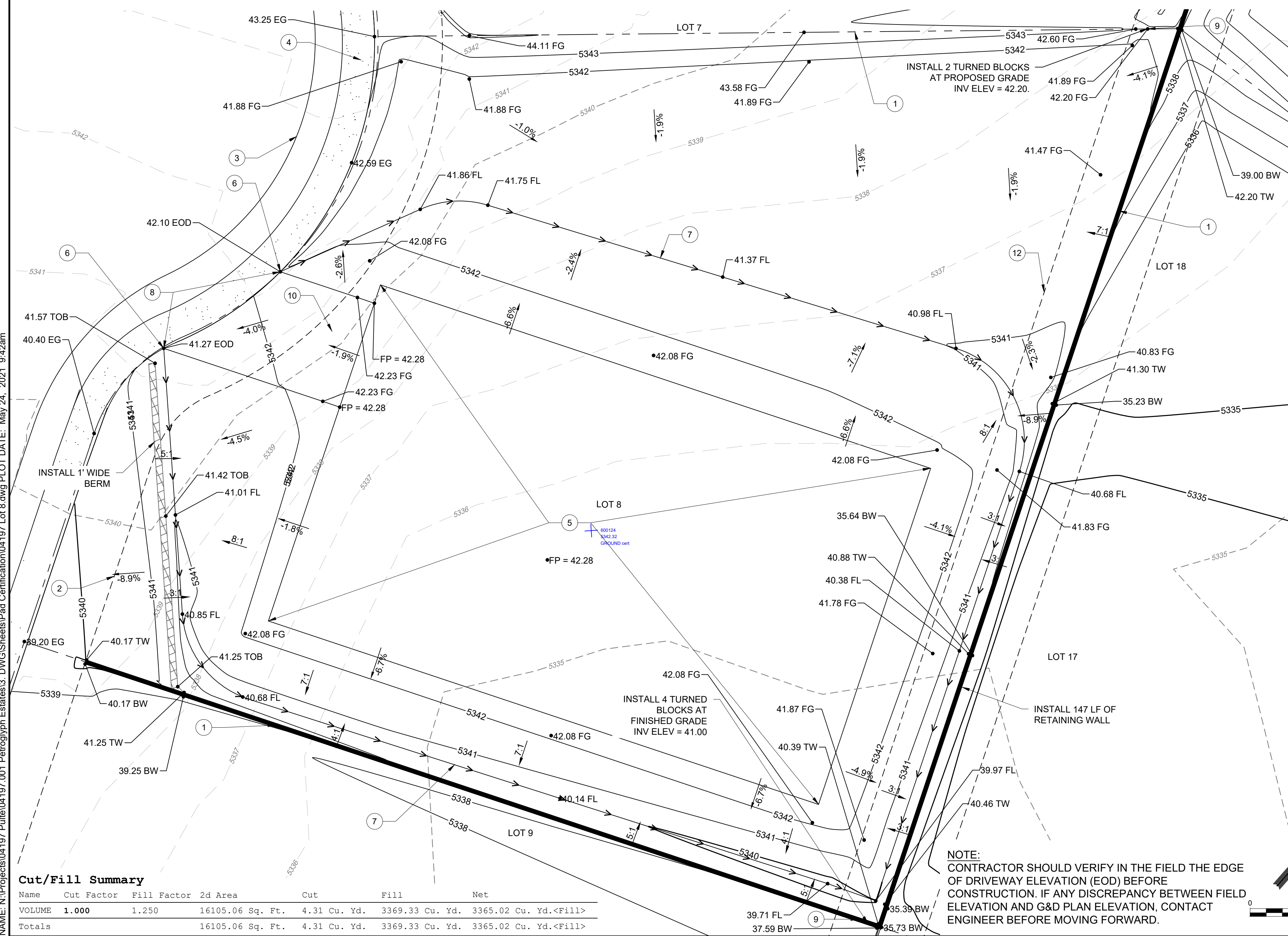
**NOTE:**  
THESE DRAWINGS DO NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.

**NOTE:**  
THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, ARE INTENDED FOR USE ON THIS PROJECT AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF RESPEC INC. IN THE EVENT OF UNAUTHORIZED USE, THE USER ASSUMES ALL RESPONSIBILITY AND LIABILITY WHICH RESULTS.

1. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING OF 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 RESPONSIBILITIES OF THE CONTRACTOR.
5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL (CITY) ACCEPTANCE OF ANY PROJECT.

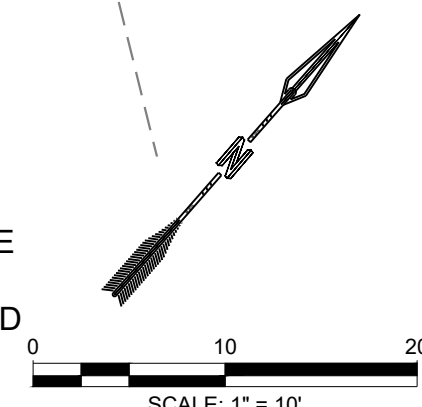
TW = TOP OF WALL  
BW = BOTTOM OF WALL  
FG = FINISHED GROUND  
EG = EXISTING GROUND  
FL = FLOW LINE  
EOD = EDGE OF DRIVEWAY  
FP = FINISHED PAD  
TOB = TOP OF BERM



1. EXISTING PROPERTY LINE
2. EXISTING 10' P.U.E.
3. EXISTING STANDARD CURB AND GUTTER
4. EXISTING SIDEWALK
5. PAD EXTENTS
6. HIGH POINT OF SWALE
7. SWALE
8. MATCH DRIVEWAY TO BACK OF EXISTING SIDEWALK
9. IF PERIMETER WALL IS INSTALLED THEN PROVIDE TURNED BLOCK TO ALLOW FOR CROSS LOT DRAINAGE.
10. PROPOSED DRIVEWAY LOCATION. (DRIVEWAY PERMIT BY OTHERS
11. EXISTING 10' P.U.E. ADJACENT TO PROPERTY (RETAINING WALL MAY HAVE TO BE ADJUSTED WHEN EXISTING WALL ARE ENCOUNTERED.)
12. EXISTING 7' P.U.E.
13. 6" RIPRAP RUNDOWN



| Name   | Cut Factor | Fill Factor | 2d Area          | Cut          | Fill            | Net                   |
|--------|------------|-------------|------------------|--------------|-----------------|-----------------------|
| VOLUME | 1.000      | 1.250       | 16105.06 Sq. Ft. | 4.31 Cu. Yd. | 3369.33 Cu. Yd. | 3365.02 Cu. Yd.<Fill> |
| Totals |            |             | 16105.06 Sq. Ft. | 4.31 Cu. Yd. | 3369.33 Cu. Yd. | 3365.02 Cu. Yd.<Fill> |

**NOTE:**  
CONTRACTOR SHOULD VERIFY IN THE FIELD THE EDGE  
OF DRIVEWAY ELEVATION (EOD) BEFORE  
CONSTRUCTION. IF ANY DISCREPANCY BETWEEN FIELD  
ELEVATION AND G&D PLAN ELEVATION, CONTACT  
ENGINEER BEFORE MOVING FORWARD.



|                                     |  |   |  |   |   |   |   |
|-------------------------------------|--|---|--|---|---|---|---|
| SUBMITTED FOR:<br><br>SHEET NUMBER: | SHEET TITLE:<br><br>GRADING AND<br>DRAINAGE PLAN | PROJECT NAME:<br><br>PETROGLYPH ESTATES<br>8016 ALTO RAY CT<br>PULTE ID 8 | THIS DRAWING IS INCOMPLETE<br>AND NOT TO BE USED FOR<br>CONSTRUCTION UNLESS IT IS<br>STAMPED, SIGNED AND DATED |  |  | DESIGNED BY<br>DRAWN BY<br>CHECKED BY<br>DATE | 1"=0'<br>1"=20'<br>1"=40'<br>1"=80'<br>1"=160'<br>1"=320'<br>1"=640'<br>1"=1280'<br>1"=2560'<br>1"=5120'<br>1"=10240'<br>1"=20480'<br>1"=40960'<br>1"=81920'<br>1"=163840'<br>1"=327680'<br>1"=655360'<br>1"=1310720'<br>1"=2621440'<br>1"=5242880'<br>1"=10485760'<br>1"=20971520'<br>1"=41943040'<br>1"=83886080'<br>1"=167772160'<br>1"=335544320'<br>1"=671088640'<br>1"=1342177280'<br>1"=2684354560'<br>1"=5368709120'<br>1"=10737418240'<br>1"=21474836480'<br>1"=42949672960'<br>1"=85899345920'<br>1"=171798691840'<br>1"=343597383680'<br>1"=687194767360'<br>1"=1374389534720'<br>1"=2748779069440'<br>1"=5497558138880'<br>1"=10995116277760'<br>1"=21990232555520'<br>1"=43980465111040'<br>1"=87960930222080'<br>1"=175921860444160'<br>1"=351843720888320'<br>1"=703687441776640'<br>1"=1407374883553280'<br>1"=2814749767106560'<br>1"=5629499534213120'<br>1"=11258999068426240'<br>1"=22517998136852480'<br>1"=45035996273704960'<br>1"=90071992547409920'<br>1"=180143985094819840'<br>1"=360287970189639680'<br>1"=720575940379279360'<br>1"=1441151880758558720'<br>1"=2882303761517117440'<br>1"=5764607523034234880'<br>1"=11529215046068469760'<br>1"=23058430092136939520'<br>1"=46116860184273879040'<br>1"=92233720368547758080'<br>1"=184467440737095516160'<br>1"=368934881474191032320'<br>1"=737869762948382064640'<br>1"=1475739525896764129280'<br>1"=2951479051793528258560'<br>1"=5902958103587056517120'<br>1"=11805916207174113034240'<br>1"=23611832414348226068480'<br>1"=47223664828696452136960'<br>1"=94447329657392904273920'<br>1"=188894659314785808547840'<br>1"=377789318629571617095680'<br>1"=755578637259143234191360'<br>1"=1511157274518286468382720'<br>1"=3022314549036572936765440'<br>1"=6044629098073145873530880'<br>1"=12089258196146291747061760'<br>1"=24178516392292583494123520'<br>1"=48357032784585166988247040'<br>1"=96714065569170333976494080'<br>1"=193428131138340667952988160'<br>1"=386856262276681335905976320'<br>1"=773712524553362671811952640'<br>1"=1547425049106725343623905280'<br>1"=3094850098213450687247810560'<br>1"=6189700196426901374495621120'<br>1"=12379400392853802748991242240'<br>1"=24758800785707605497982484480'<br>1"=49517601571415210995964968960'<br>1"=99035203142830421991929937920'<br>1"=198070406285660843983859875840'<br>1"=396140812571321687967719751680'<br>1"=792281625142643375935439503360'<br>1"=1584563250285286751870879006720'<br>1"=3169126500570573503741758013440'<br>1"=6338253001141147007483516026880'<br>1"=12676506002282294014967032053760'<br>1"=25353012004564588029934064107520'<br>1"=50706024009129176059868128215040'<br>1"=101412048018258352119736256430080'<br>1"=202824096036516704239472512860160'<br>1"=405648192073033408478945025720320'<br>1"=811296384146066816957890051440640'<br>1"=1622592768292133633915780102881280'<br>1"=3245185536584267267831560205762560'<br>1"=6490371073168534535663120411525120'<br>1"=12980742146337069071326240823050240'<br>1"=25961484292674138142652481646100480'<br>1"=51922968585348276285304963292200960'<br>1"=103845937170696552570609926584401920'<br>1"=207691874341393105141219853168803840'<br>1"=415383748682786210282439706337607680'<br>1"=830767497365572420564879412675215360'<br>1"=1661534994731144841129758825350430720'<br>1"=3323069989462289682259517650700861440'<br>1"=6646139978924579364519035301401722880'<br>1"=13292279957849158729038070602803445760'<br>1"=26584559915698317458076141205606891520'<br>1"=53169119831396634916152282411213783040'<br>1"=106338239662793269832304564822427566080'<br>1"=212676479325586539664609129644855132160'<br>1"=425352958651173079329218259289710264320'<br>1"=850705917302346158658436518579420528640'<br>1"=170141183460469231731687303 |
|-------------------------------------|--|---|--|---|---|---|---|