

CITY OF ALBUQUERQUE



July 12, 2016

Richard J. Berry, Mayor

David Soule, P.E.
Rio Grande Engineering
P.O. Box 93924
Albuquerque, NM 87199

**RE: Gonzales Residence
Grading and Drainage Plan
Engineer's Stamp Date 6-10-2016 (File: J13D203)**

Dear Mr. Soule:

Based upon the information provided in your submittal received 6-10-16, the above-referenced plan is approved for Building Permit.

Please attach a copy of this approved plan in the construction sets when submitting for a building permit. Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

If you have any questions, you can contact me at 924-3986.

Sincerely,

Abiel Carrillo, P.E.
Principal Engineer, Planning Dept.
Development Review Services

Orig: Drainage file



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

Project Title: _____ **Building Permit #:** _____ **City Drainage #:** _____

DRB#: _____ **EPC#:** _____ **Work Order#:** _____

Legal Description: _____

City Address: _____

Engineering Firm: _____ **Contact:** _____

Address: _____

Phone#: _____ **Fax#:** _____ **E-mail:** _____

Owner: _____ **Contact:** _____

Address: _____

Phone#: _____ **Fax#:** _____ **E-mail:** _____

Architect: _____ **Contact:** _____

Address: _____

Phone#: _____ **Fax#:** _____ **E-mail:** _____

Other Contact: _____ **Contact:** _____

Address: _____

Phone#: _____ **Fax#:** _____ **E-mail:** _____

Check all that Apply:

DEPARTMENT:

- ☐ HYDROLOGY/ DRAINAGE
☐ TRAFFIC/ TRANSPORTATION
☐ MS4/ EROSION & SEDIMENT CONTROL

TYPE OF SUBMITTAL:

- ☐ ENGINEER/ ARCHITECT CERTIFICATION
- ☐ CONCEPTUAL G & D PLAN
☐ GRADING PLAN
☐ DRAINAGE MASTER PLAN
☐ DRAINAGE REPORT
☐ CLOMR/LOMR
- ☐ TRAFFIC CIRCULATION LAYOUT (TCL)
☐ TRAFFIC IMPACT STUDY (TIS)
☐ EROSION & SEDIMENT CONTROL PLAN (ESC)
- ☐ OTHER (SPECIFY) _____

CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

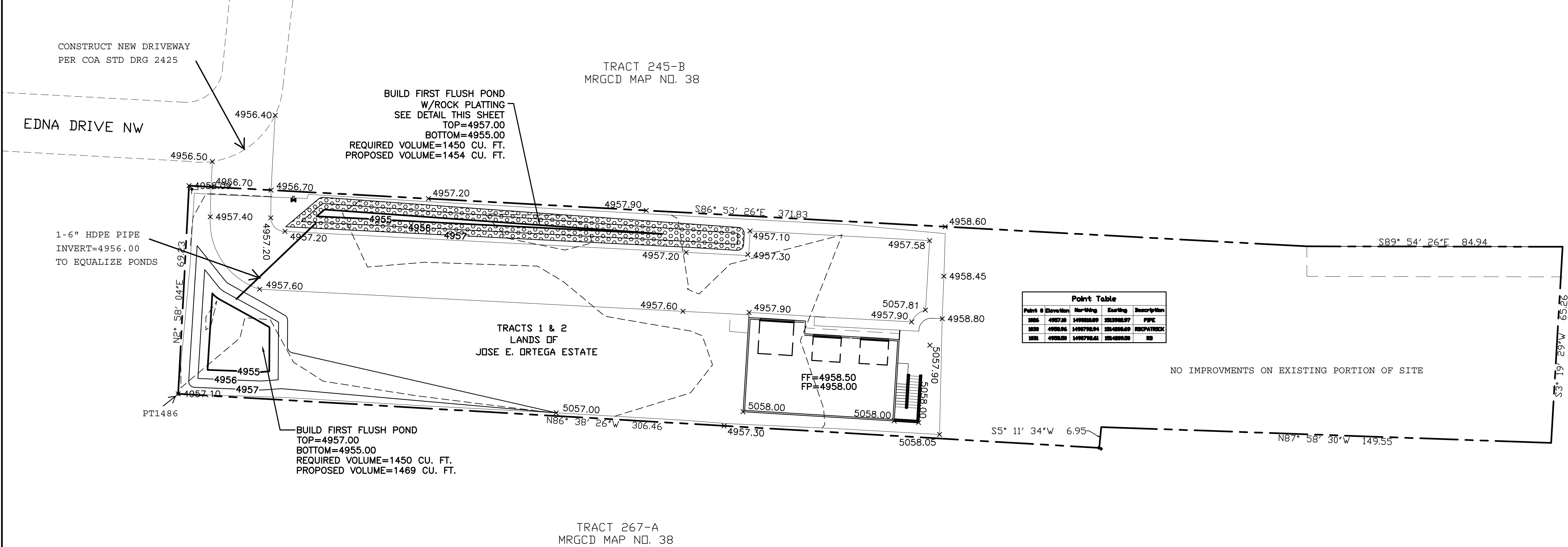
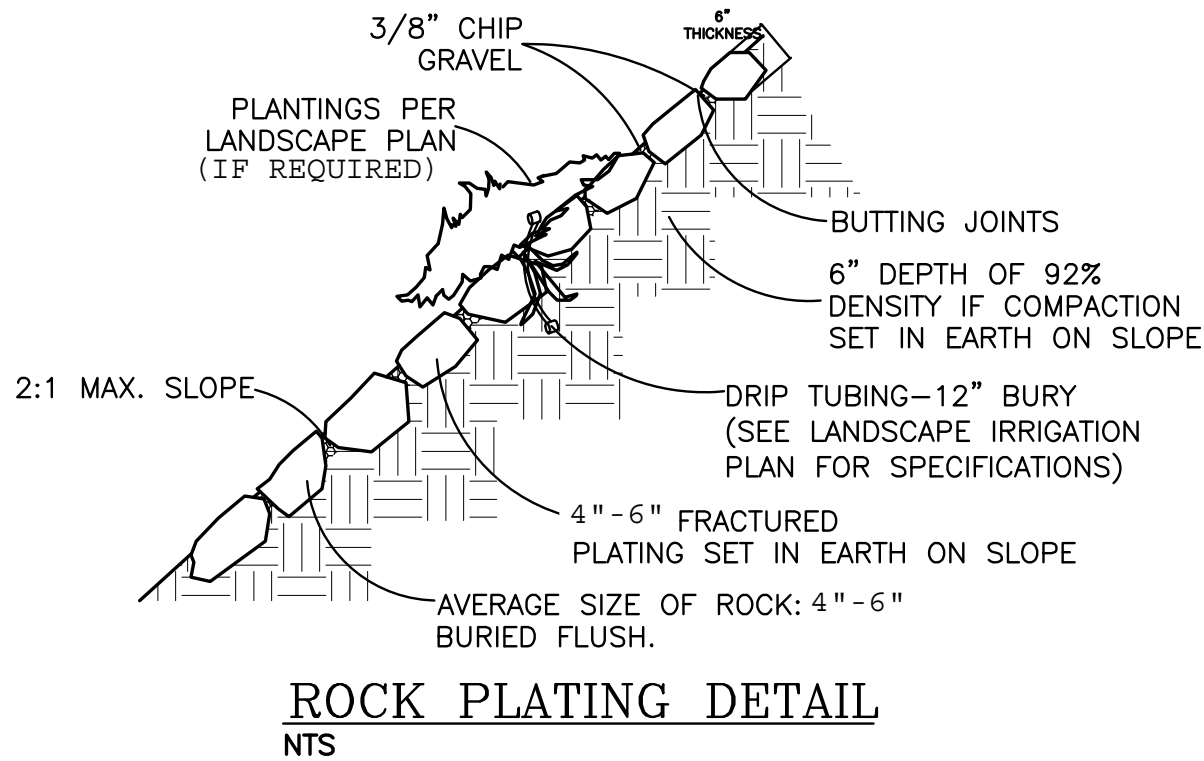
- ☐ BUILDING PERMIT APPROVAL
☐ CERTIFICATE OF OCCUPANCY
- ☐ PRELIMINARY PLAT APPROVAL
☐ SITE PLAN FOR SUB'D APPROVAL
☐ SITE PLAN FOR BLDG. PERMIT APPROVAL
☐ FINAL PLAT APPROVAL
☐ SIA/ RELEASE OF FINANCIAL GUARANTEE
☐ FOUNDATION PERMIT APPROVAL
☐ GRADING PERMIT APPROVAL
☐ SO-19 APPROVAL
☐ PAVING PERMIT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

IS THIS A RESUBMITTAL?: ☐ Yes ☐ No

DATE SUBMITTED: _____ **By:** _____

COA STAFF: _____ ELECTRONIC SUBMITTAL RECEIVED: _____

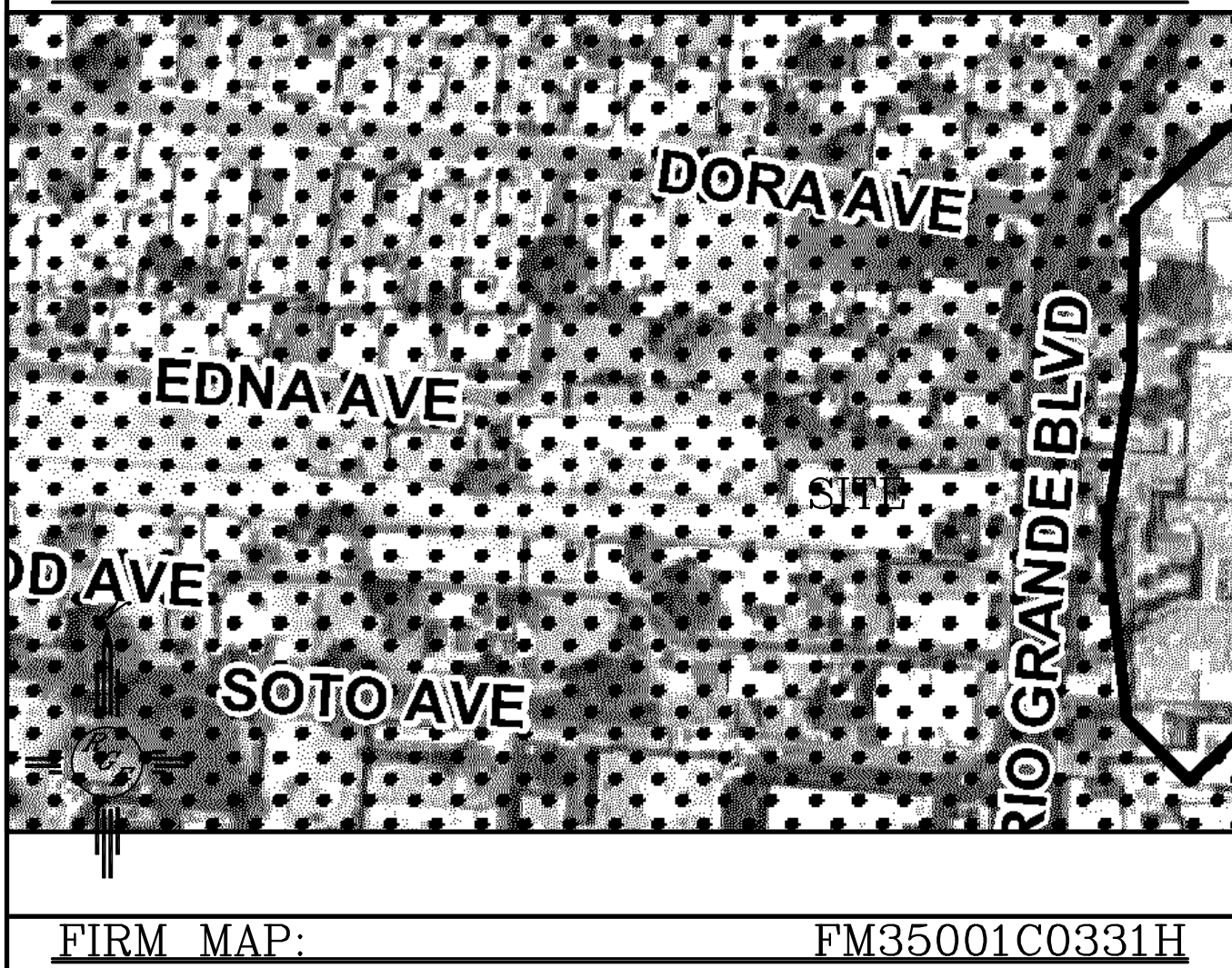
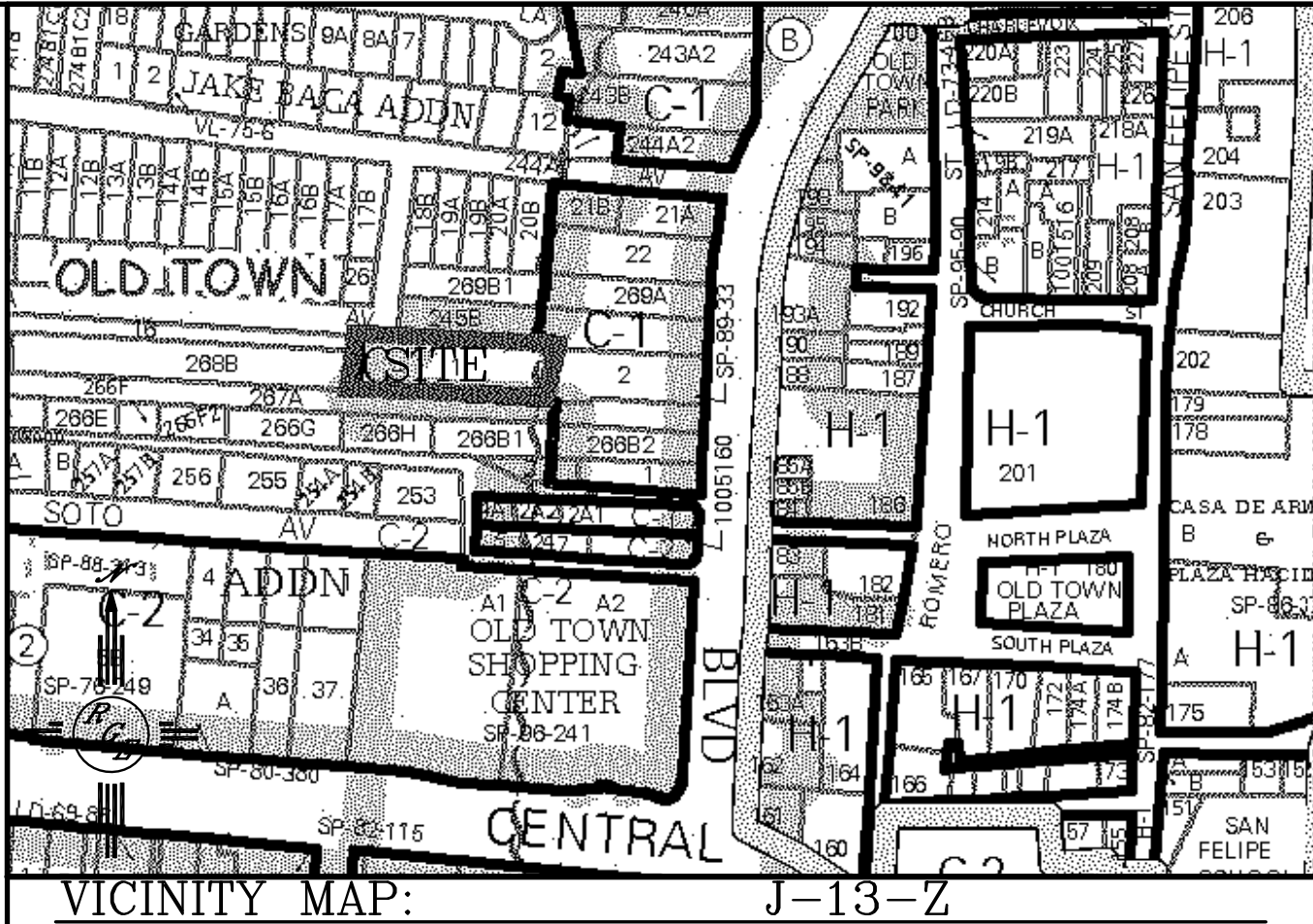
Weighted E Method												
							100-Year, 6-Hr.		10-day			
Basin	Area (sf)	Area (acres)	Treatment A % (acres)	Treatment B % (acres)	Treatment C % (acres)	Treatment D % (acres)	Weighted E (ac-ft)	Volume (ac-ft)	Flow cfs	Volume (ac-ft)		
Existing	17653.00	0.405	0%	100%	0.405	0%	0.000	0.780	0.026	0.92	0.028	
basin 1	17653.00	0.405	0%	0	0.170	20%	0.081	38%	0.154	1.359	0.046	1.37
PROPOSED	29257.00	0.672	0%	0	0.42%	0.282	20%	0.134	38%	0.255	1.359	0.076
										2.26		0.110
Equations:												
Weighted E = Ea*Aa + Eb*Ab + Ec*Ac + Ed*Ad / (Total Area)							ALLOWABLE DISCHARGE 2.75 CFS/ACRE					
Volume = Weighted D * Total Area							1.11375 CFS					
Flow = Qa * Aa + Qb * Ab + Qc * Ac + Qd * Ad							First flush requirement 315.0004 cubic feet					
Where for 100-year, 6-hour storm(zone2)												
			Ea= 0.53			Qa= 1.56						
			Eb= 0.78			Qb= 2.28						
			Ec= 1.13			Qc= 3.14						
			Ed= 2.12			Qd= 4.7						
Developed Conditions												
FLAT GRADING SCHEME							VOLUME GENERATED					
							10-day					
EXISTING							0.026		AC-FT		1147.445 CF	
PROPOSED							1.37 CFS		AC-FT		2893.91513 CF	
ALLOWED							1.11 CFS					
PONDING PROVIDED												
POND		1	1469									
POND		2	1454									
TOTAL PROVIDED			2923									
THIS SITE IS LOCATED IN A FULLY DEVELOPED AREA OF THE NEAR NORTH VALLEY. AS REQUIRED BY CITY DRAINAGE ORDINANCE THIS SITE IS REQUIRED TO REDUCE DISCHARGE TO 2.75 CFS PER ACRE OR RETAIN THE 100-YEAR, 10-DAY VOLUME. DUE TO THE ELEVATION WE WILL RETAIN THE FLOW GFI BY THIS SITE.												



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.

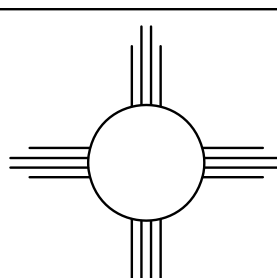


LEGAL DESCRIPTION:
TRACTS 1 AND 2 LAND OF JOSE C ORTEGA ESTATE

NOTES:

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
2. ALL RETAINING WALL DESIGN SHALL BE BY OTHERS.

LEGEND	
---	EXISTING CONTOUR
---	EXISTING INDEX CONTOUR
---	PROPOSED CONTOUR
---	PROPOSED INDEX CONTOUR
---	SLOPE TIE
×	EXISTING SPOT ELEVATION
×	PROPOSED SPOT ELEVATION
---	BOUNDARY
---	EASEMENT
---	RIGHT-OF-WAY
---	PROPOSED EDGE OF CONCRETE
---	EXISTING EDGE OF ASPHALT
---	PROPOSED SCREEN WALL

<div>ENGINEER'S SEAL</div> <div>DAVID SOULE NEW MEXICO REGISTERED PROFESSIONAL ENGINEER 14522</div> <div>6/10/16</div> <div>DAVID SOULE P.E. #14522</div>	GONZALES RESEDCENCE	DRAWN BY WCWJ
	GRADING AND DRAINAGE PLAN	DATE 6-06-16
	<div><div>Rio Grande Engineering 1606 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0999</div></div>	21626-LAYOUT-6-06-16
		SHEET #
		JOB # 21626