CITY OF ALBUQUERQUE

Planning Department David S. Campbell, Director



Timothy M. Keller, Mayor

January 3, 2018

David Soule, PE Rio Grande Engineering 1606 Central SE Suite 201 Albuquerque, NM 87106

Re: Picasso RV - 7800 Jacs Ln. NE Grading & Drainage Plan Engineer's Stamp Dated 12/29/2017 (D16D002A6)

Dear Mr. Soule,

Based upon the information provided in the submittal received on 1/2/2018 the abovereferenced plan is approved for Building Permit and Grading Permit.

PO Box 1293 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 and Private Facility Drainage Covenant will be required.

Albuquerque

NM 87103

A Private Drainage Covenant for the ponds must be submitted to Madeline Caruthers along with a check for \$25 payable to Bernalillo County and the Covenant must be recorded prior to Certificate of Occupancy release.

An ESC plan must be submitted to Stormwater Quality Control prior to Grading Plan
approval. After the ESC plan is approved an ESC Permit must be obtained prior to beginning
construction.

If you have any questions, you can contact me at 924-3986 or e-mail Jhughes@cabq.gov .

Sincerely,

burke

James D. Hughes, P.E. Principal Engineer, Planning Dept. Development Review Services



City of Albuquerque

Planning Department Development & Building Services Division DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

Owner: PICASSO HOMES Address:	Project Title: PICASSO RV		Building Permit #:	City Drainage #: E16D 002A6				
City Address: 7800 JACS LANE Engineering Firm: RIO GRANDE ENGINEERING Address: PO BOX 5392, ALBUQUERQUE, NM 87199 Address: PO BOX 5392, ALBUQUERQUE, NM 87199 Phone#: 905.321.9099 Pax#: 905.321.9099 Contact:	DRB#:	EPC#:		Work Order#:				
Engineering Firm: R0 GRANDE ENGINEERING Contact: DAVID SOULE Address: P0 BOX 93924, ALBUQUERQUE, NM 87199 Fax8: 505.872.0999 F-mail: DAVID@RIOGRANDEENGINEERING CO Owner: PCASSO HOMES Contact:	Legal Description: LOT 5A AND 6A BLUE SKY S	SUBDIVISION						
Address: PO BOX 33324, ALBUQUERQUE, NM 87199 Phom# 505.321,999 Fax#: E-mail: Address: Pono#: Contact: Address: Pono#: E-mail: Phone#: Fax#: E-mail: Architect: JOE SIMONS Contact: Address: Pono#: E-mail: Phone#: Fax#: E-mail: Other Contact: Contact: Address: Contact: Phone#: Fax#: E-mail: Contact: Address: Contact: Phone#: Fax#: E-mail: Contact: Address: Pono#: Phone#: Fax#: E-mail: Contact: Address: Pono#: E-mail: Contact: Address: Pono#: E-mail: Contact: Address: Buil.DING PERMIT APPROVAL CERMITENT: E-mail: X BUILDING PERMIT APPROVAL Check all that Apply: CRECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT: X <td< td=""><td>City Address: 7800 JACS LANE</td><td></td><td></td><td></td></td<>	City Address: 7800 JACS LANE							
Phone#: 505.321.9099 E-mail: DAVID@RIOGRANDEENGINEERING.CO Owner: PICASSO HOMES Contact: Address: Phone#:	Engineering Firm: RIO GRANDE ENGINEERI	NG		Contact: DAVID SOULE				
Owner: PICASSO HOMES Contact: Address:	Address: PO BOX 93924, ALBUQUERQUE, NM	87199						
Address:	Phone#: 505.321.9099	Fax#: 505.872.0999		E-mail: DAVID@RIOGRANDEENGINEERING.COM				
Phone#:	Owner: PICASSO HOMES			Contact:				
Architect: JOE SIMONS Contact: Address:	Address:							
Address:	Phone#:	Fax#:		E-mail:				
Phone#: Fax#: E-mail: Other Contact:	Architect: JOE SIMONS			Contact:				
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12/29/17 D	IS THIS A KESUBMITTAL?: Yes	1NO						
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COA STAFF: ELECTRONIC SUBMITTAL RECEIVED: ____

ITY OF ALBUQUER

Hydrology Section of the Planning Department



November 29, 2017

David Soule, PE Rio Grande Engineering 1606 Central SE Suite 201 Albuquerque, NM 87106

Re: Picasso RV - 7800 Jacs Ln. NE Grading & Drainage Plan Engineer's Stamp Dated 11/21/2017 (D16D002A6)

Dear Mr. Soule,

Based upon the information provided in the submittal received on 11/27/17 the abovereferenced plan cannot be approved for Building Permit and/or Grading Permit until the following comments are addressed.

1. Flow arrows and spot elevations should be added showing the onsite swale next to Jacs Ln. that will divert onsite drainage into the ponds before it enters the public right of way. We have adjusted contours and added arrows and spots

- A typical section showing the horizontal and vertical dimensions from the right of way line of Jacs Ln. to the curb and gutter, sidewalk, and onsite drainage swale should be shown on the G&D Plan. Hydraulic capacity calculations should be shown next to the section of the onsite swale. We expanded pond and added xsec
- 3. Similarly the hydraulic capacity calculations of the swale in section C-C should either be revised in the report to match the geometry of the section on the G&D Plan or the revised calculations can be shown on the G&D Plan next to the section. The detail and the calculations should agree. We updated channel capacity
- 4. Please add a big caution note in the vicinity of the existing 30' PNM Gas Pipeline and Communication easement on the east side of this property. Added
- 5. Written approval of this plan is required from PNM only fill placed, pending nm gas*
- This work requires an ESC plan to be submitted to the storm water quality engineer (Curtis Cherne, PE ccherne@cabq.gov) prior to Grading Permit approval.
 Obtained

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

Sincerely,

Jamer D. Hugles

James D. Hughes, P.E. Principal Engineer, Planning Dept. Development Review Services

* We have requested written authorization but not yet recieved. The plan does not have any Cut in the area of easement

Albuquerque - Making History 1706-2006

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

Weighted E Method PICASO RV

Existing Developed Basins

											100-Year, 6-h	nr.	
Basin	Area	Area	Treatment A		Treatment B		Treatment C		Treatment D		Weighted E	Volume	Flow
	(sf)	(acres)	%	(acres)	%	(acres)	%	(acres)	%	(acres)	(ac-ft)	(ac-ft)	cfs
EXISTING	264865	6.080	0%	0	80.0%	4.864	20.0%	1.21609	0%	0.000	0.850	0.431	14.91
PROPOSED	264865	6.080	0%	0	7.4%	0.452	61.3%	3.730	31%	1.898	1.413	0.716	21.67
POND A BASIN	36320	0.834	0%	0	8.0%	0.067	60.0%	0.50028	32%	0.267	1.419	0.099	2.98
POND B BASIN	62196	1.428	0%	0	8.0%	0.114	61.0%	0.87097	31%	0.443	1.409	0.168	5.08
POND C BASIN	147484	3.386	0%	0	8.0%	0.271	62.0%	2.09918	30%	1.016	0.865	0.244	11.98
BASIND	8742	0.201	0%	0	50.0%	0.100	50.0%	0.10034	0%	0.000	0.955	0.016	0.54
UPLAND	18865	0.433	0%	0	0.0%	0.000	60.0%	0.25985	40%	0.173	1.526	0.055	1.63

Equations:

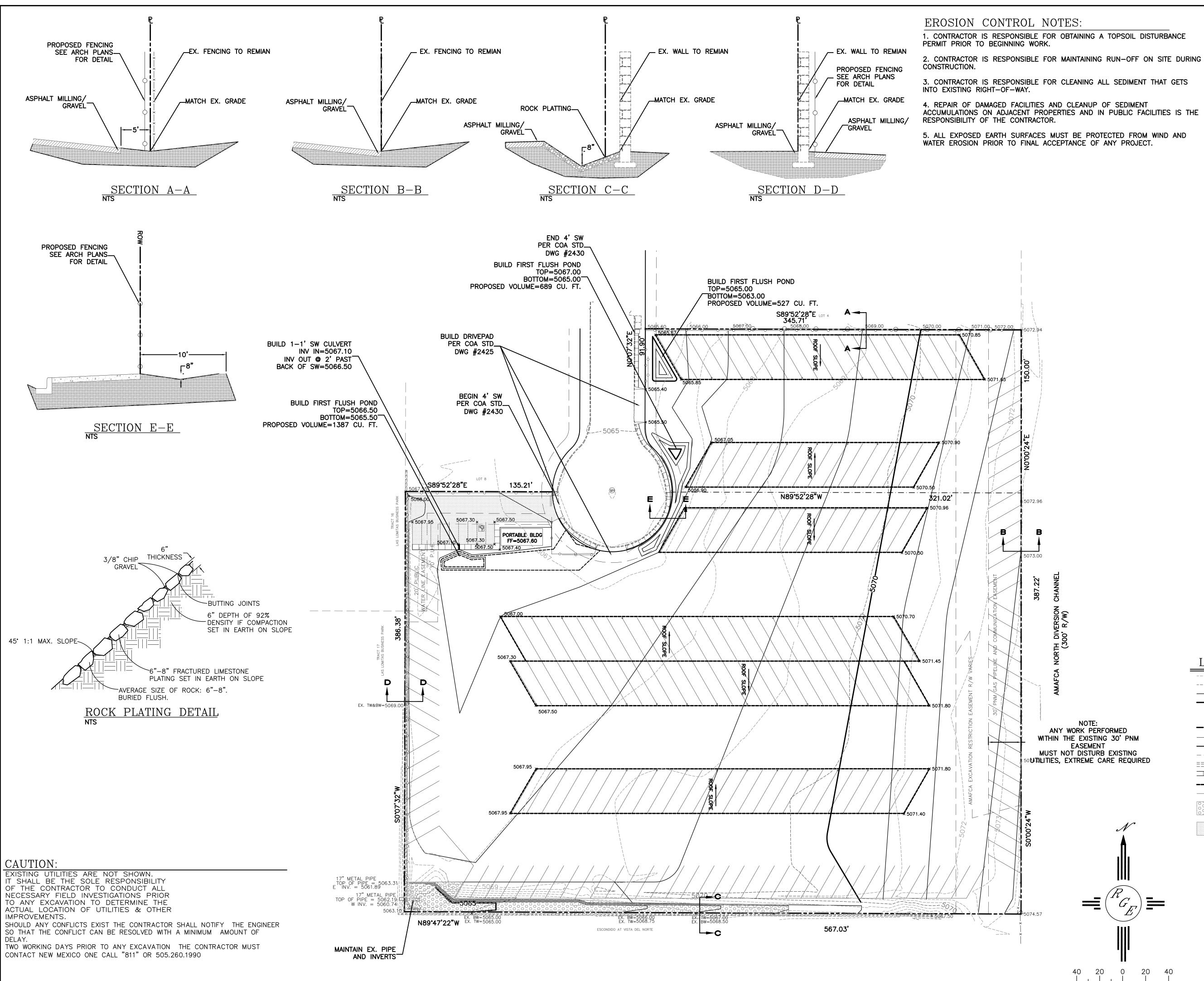
Weighted E = Ea*Aa + Eb*Ab + Ec*Ac + Ed*Ad / (Total Area)	First flush requirement=.34ximpervi	Basin A ous area 329.301	
Volume = Weighted D * Total Area	I	Provided 527	689 1387
Flow = Qa * Aa + Qb * Ab + Qc * Ac + Qd * Ad	CONTRIBUTING BASIN	A B	4294.235 CF 7302.329 CF
Where for 100-year, 6-hour storm (zone 3)		С	10631.14 CF
Ea= 0.53	Qa= 1.57		
Eb= 0.78	Qb= 2.28		
Ec= 1.13	Qc= 3.14		
Ed= 2.12	Qd= 4.7		

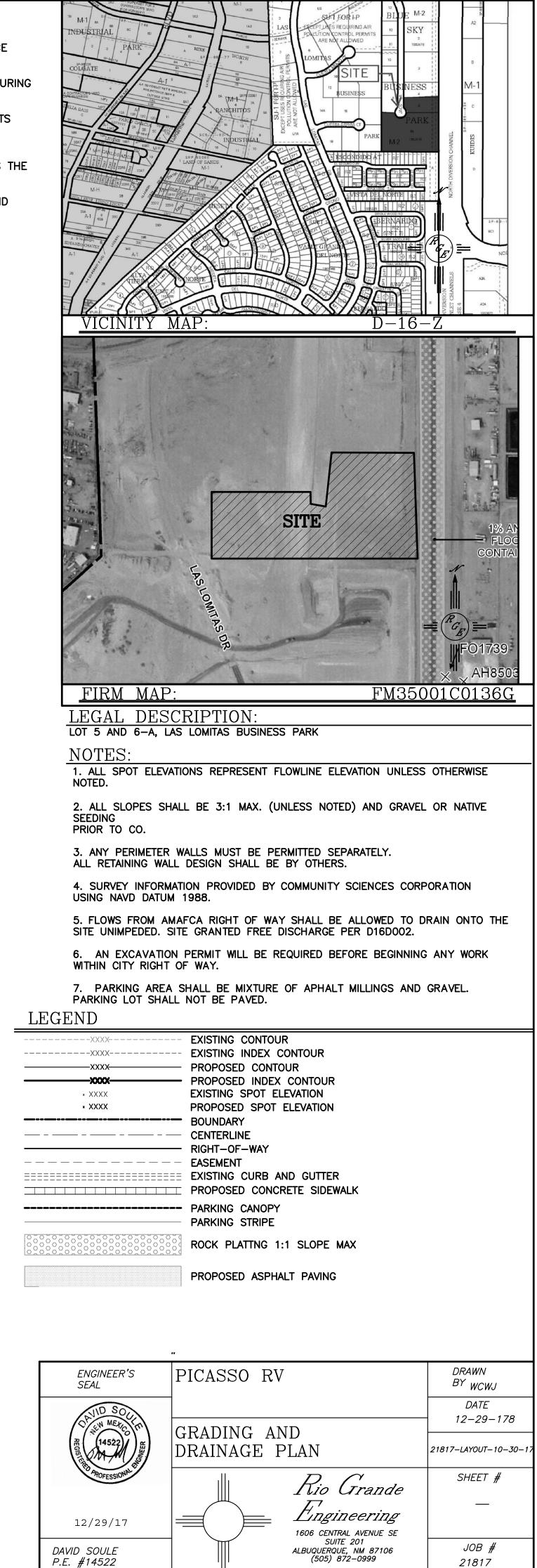
Channel Capacity

	Top Width	Bottom Width	Depth	Area	WP	R	Slope	Q Provided	Q Required	Velocity
	(ft)	(ft)	(ft)	(ft^2)	(ft)		(%)	(cfs)	(cfs)	(ft/s)
top	4	0	0.67	1.34	4.22	0.3176497	1.6	3.36	0.54	0.40

 $\frac{\text{Manning's Equation:}}{\text{Q} = 1.49/n * A * R^{(2/3)} * S^{(1/2)}}$ A = Area R = D/4 S = Slope n = 0.035

Note, channel section limited by elevation on south property line





NOTE: ANY WORK PERFORMED WITHIN THE EXISTING 30' PNM EASEMENT MUST NOT DISTURB EXISTING UTILITIES, EXTREME CARE REQUIRED

