

CITY OF ALBUQUERQUE



July 13, 2017

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

RE: **10512 Redbud Residence**
10512 Redbud NW
Grading Plan
Engineer's Stamp Date 7/9/17 (File: A12D027)

Dear Mr. Soule:

Based on the information provided in your submittal received 7/10/17, the Grading Plan is approved for Building Permit.

PO Box 1293

If you have any questions, please contact me at 924-3695 or dpeterson@cabq.gov.

Albuquerque

Sincerely,

New Mexico 87103

Dana Peterson, P.E.
Senior Engineer, Planning Dept.
Development Review Services

www.cabq.gov

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: _____

CITY OF ALBUQUERQUE



June 27, 2017

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

RE: **10512 Redbud Residence**
10512 Redbud NW
Grading Plan
Engineer's Stamp Date 6/20/17 (File: A12D027)

Dear Mr. Soule:

Based upon the information provided in your submittal received 6/21/17, the Grading Plan cannot be approved for Building Permit until the following are addressed:

1. Show and calculate the sub-basin divide between the front of lot and back of lot. From the grading plan, it appears about half the site will drain west to the ROW and half to the east to an adjoining lot. **WE HAVE DELINIATED BASINS**
 2. For properties that historically drain to an adjoining lot, where the adjoining lot has an outfall, the adjoining lot should not see a change in peak flow. It appears the entire lot historically drained to the adjoining lot, therefore the proposed discharge to the back of this lot cannot exceed 0.38 cfs. This must be demonstrated on the plan. **WE HAVE SHOWN THEFRONT DISCHARGES .45 CFS AND REAR .27 CFS**
- If you have any questions, please contact me at 924-3695 or dpeterson@cabq.gov.

Sincerely,

Dana Peterson, P.E.
Senior Engineer, Planning Dept.
Development Review Services

Orig: Drainage file

redbud

Weighted E Method

Basin	Area (sf)	Area (acres)	Treatment A		Treatment B		Treatment C		Treatment D		100-Year, 6-hr.		
			%	(acres)	%	(acres)	%	(acres)	%	(ac-ft)	Volume (ac-ft)	Flow cfs	
EXISTING	9584.00	0.220	50%	0.11	40%	0.088	10%	0.022	0%	0.000	0.587	0.011	0.38
PROPOSED	9584.00	0.220	0%	0	31%	0.068	25%	0.055	44%	0.097	1.322	0.024	0.72
rear basin	4189.00	0.096	0%	0	44%	0.042	37%	0.035	20%	0.019	1.041	0.008	0.27
front basin	5395.00	0.124	0%	0	21%	0.026	16%	0.0198	63%	0.078	1.540	0.016	0.45
total													

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

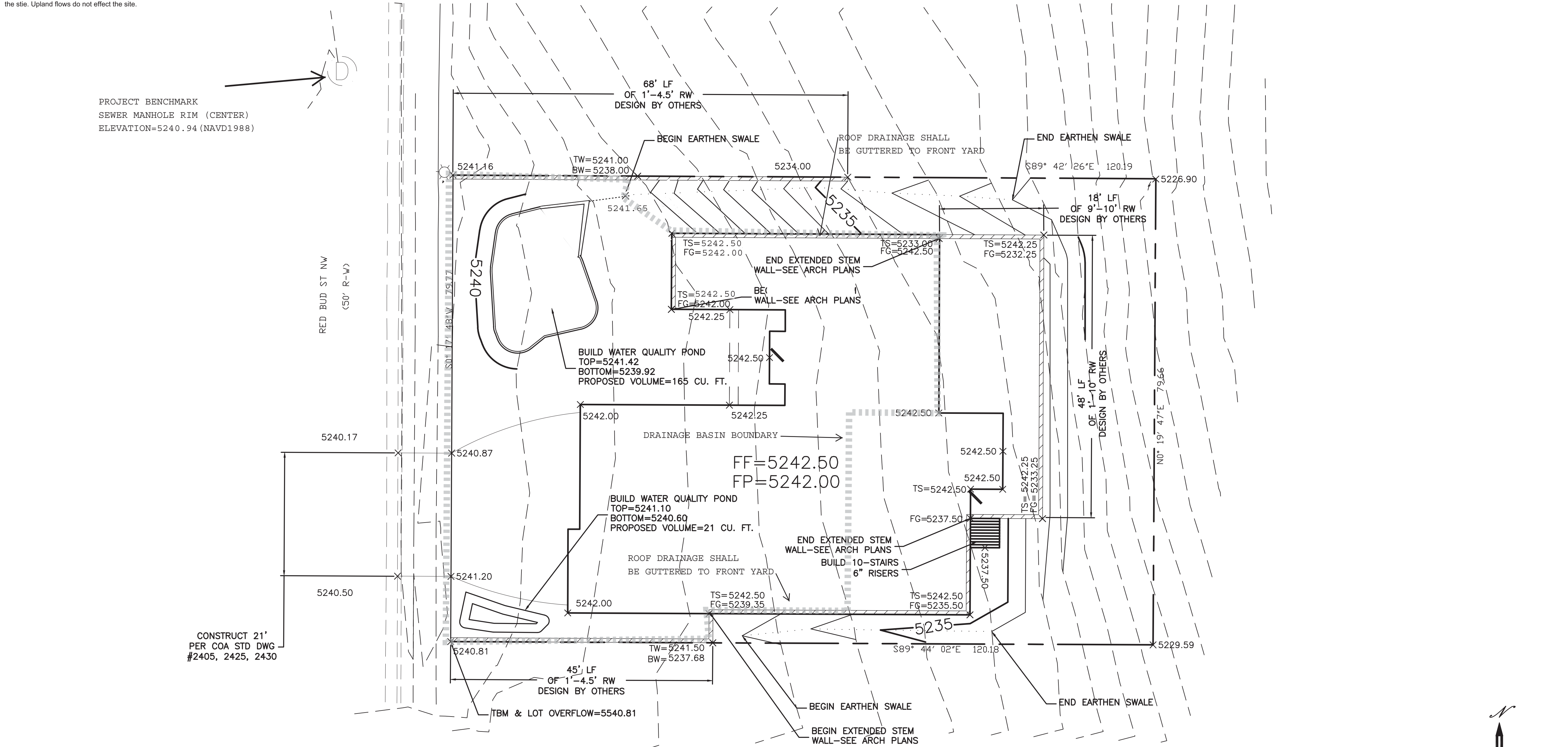
Where for 100-year, 6-hour storm- zone 1

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

ONSITE Conditions	FIRST FLUSH WATER QUALITY VOLUME REQUIRED (CF)	PROVIDED (CF)
WATER QUALITY	119	186

Narrative

This site is an infill lot within an fully developed subdivision. The existing lots all free discahrge. Due to existing graded slopes, the existing lot drain to the rear. The plan will direct the majority of the developed flow to the adjacent roadway. The back porch and rear yard will maintain historical drainage patterns and will discharge less than historical rate.The developed site will pond in excess of the water harvest volume generated by the site. Upland flows do not effect the site.

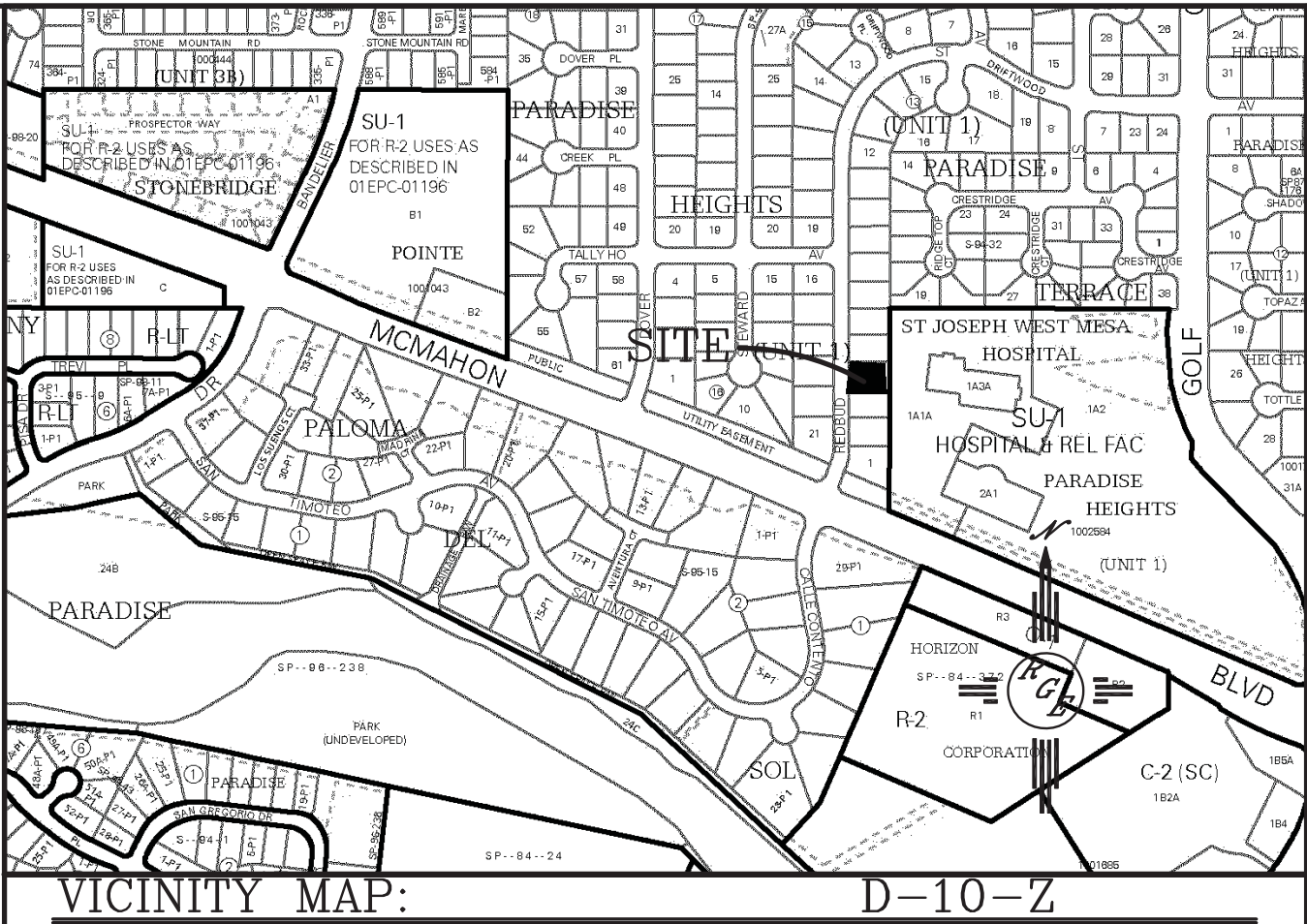


CAUTION:

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:

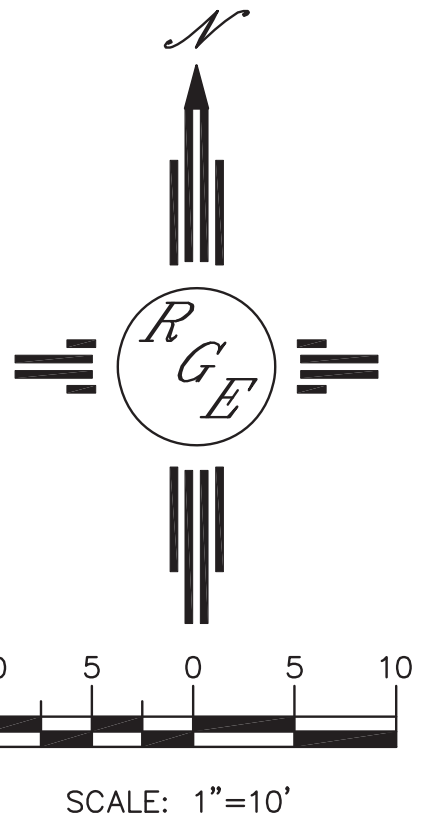
LOT 4, BLOCK 13 PARADISE HEIGHTS UNIT 1

NOTES:

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
2. ROOF GUTTER SYSTEM MUST BE INPLACE AT TIME OF CERTIFICATON

LEGEND

- | | | | |
|------|------|-----|--|
| ---- | XXXX | --- | EXISTING CONTOUR |
| ---- | XXXX | --- | EXISTING INDEX CONTOUR |
| ---- | XXXX | --- | PROPOSED CONTOUR |
| ---- | XXXX | --- | PROPOSED INDEX CONTOUR |
| ---- | XXXX | --- | SLOPE TIE |
| + | XXXX | | EXISTING SPOT ELEVATION |
| + | XXXX | | PROPOSED SPOT ELEVATION |
| ---- | | | BOUNDARY |
| ---- | | | CENTERLINE |
| ---- | | | RIGHT-OF-WAY |
| ==== | | | EXISTING CURB AND GUTTER |
| ==== | | | PROPOSED RETAINING WALL-DESIGN BY OTHERS |



<div>ENGINEER'S SEAL</div> <div>DAVID SOULE NEW MEXICO REGISTERED PROFESSIONAL ENGINEER 14522</div> <div>7/9/17</div> <div>DAVID SOULE P.E. #14522</div>	REDBUD RESIDENCE	DRAWN BY WCVJ
	GRADING AND DRAINAGE PLAN	DATE 6-15-17
	<div></div> <div>Rio Grande Engineering 1606 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0888</div>	21752-LAYOUT-6-15-17
		SHEET #
		JOB # 21752