

# CITY OF ALBUQUERQUE



February 16, 2018

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

RE: **5501 Bell Ave SE**  
**Request for Certificate of Occupancy – Permanent**  
**Hydrology Final Inspection – Accepted**  
**Engineer's Stamp Date 7/6/17 (L18D082)**  
**Certification Dated: 2/13/18**

Dear Mr. Soule,

Based on the certification received 2/13/18, this submittal is approved for release of Certificate of Occupancy (Permanent) by Hydrology.

If you have any questions, you can contact me at 924-3695 or [dpeterson@cabq.gov](mailto:dpeterson@cabq.gov).

Sincerely,

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

C: Email      Serna, Yvette M.; Fox, Debi; Tena, Victoria C.; Sandoval, Darlene M.



PRIVATE DRAINAGE IMPROVEMNET IN PUBLIC ROW

NOTICE TO CONTRACTORS

Notice to Contractor  
(Special Order 19 ~ "SO-19")

1. An excavation permit will be required before beginning any work within City Right-Of-Way.
2. All work on this project shall be performed in accordance with applicable federal, state and local laws, rules and regulations concerning construction safety and health.
3. Two working days prior to any excavation, the contractor must contact New Mexico One Call, dial "811" [or (505) 260-1990] for the location of existing utilities.
4. Prior to construction, the contractor shall excavate and verify the locations of all obstructions. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay.
5. Backfill compaction shall be according to traffic/street use.
6. Maintenance of the facility shall be the responsibility of the owner of the property being served.
7. Work on arterial streets shall be performed on a 24-hour basis.
8. Prior to pouring concrete, contractor shall notify the storm drain inspector, 857-8074, to inspect reinforcement.

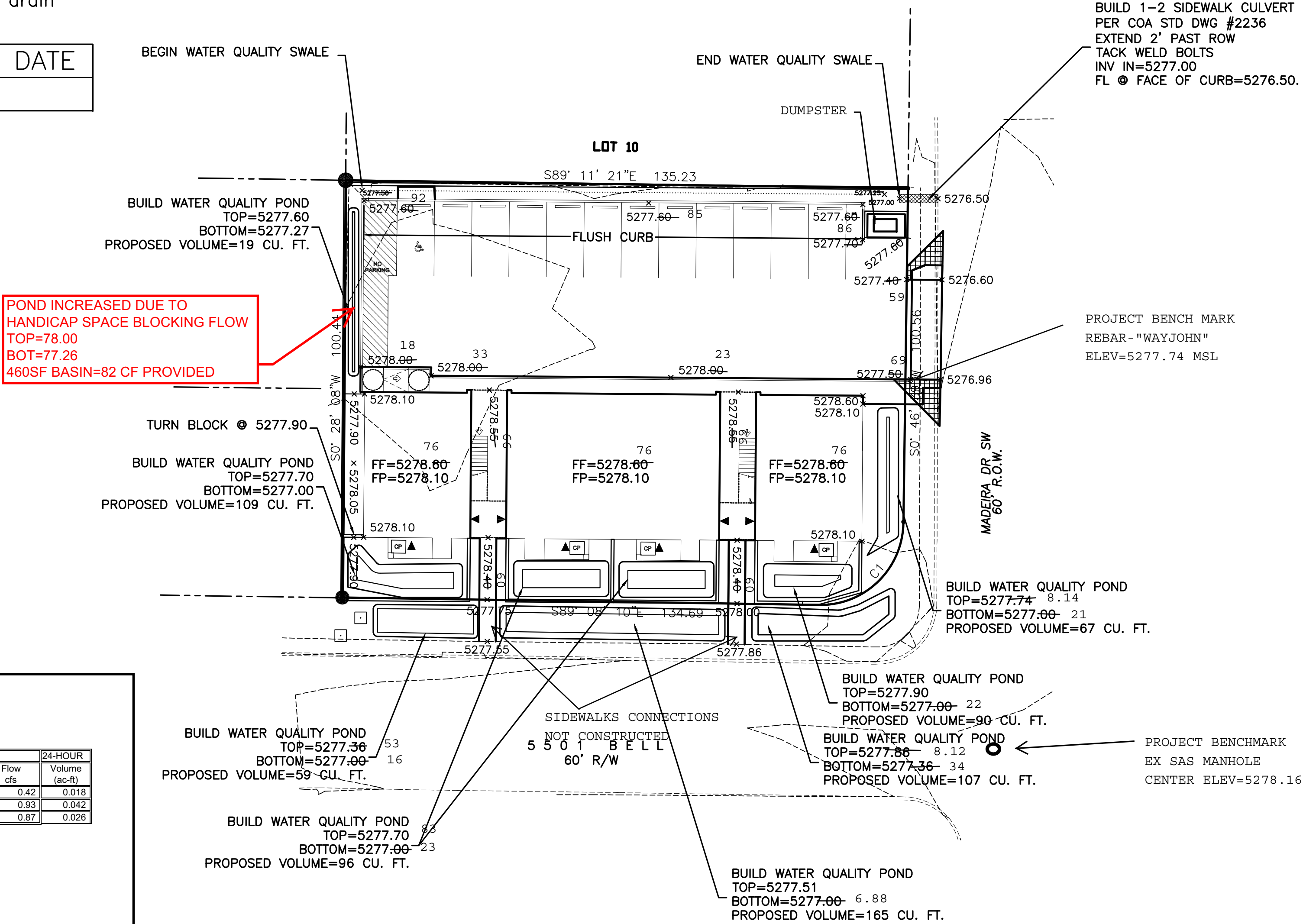
APPROVAL	NAME	DATE
INSPECTOR		

PENDING EMAIL FROM JASON RODRIGUEZ

I David Soule, NMPE 14522 , of the firm Rio Grande Engineering, hereby certify that this project has been graded and will drain in substantial compliance with and in accordance with the design intend of the approved plan dated 7/6/17 . The record information edited on the original design document has performed by me or under my direct supervision and is true and correct to the best of my knowledge and belief. The as-built survey was provided by will plotner 14271 . The certification is submitted in support of a request for PERMANENT CERTIFICATE OF OCCUPANCY. The record information presented heron is not necessarily complete and intended only to verify substantial compliance of the grading and drainage aspects of this project. Those relying on this record document are advised to obtain independent verification of its accuracy before using it for any other purpose

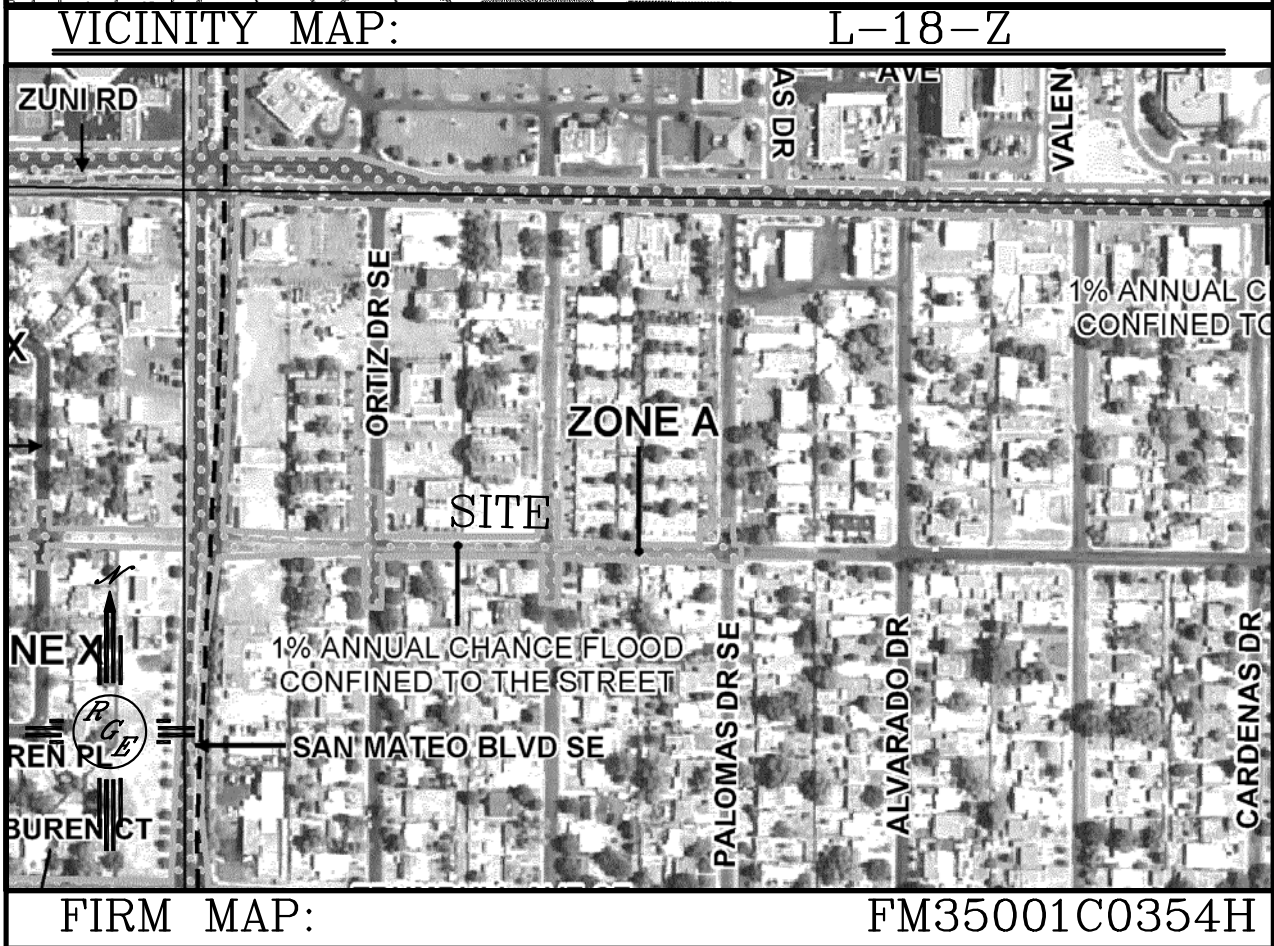
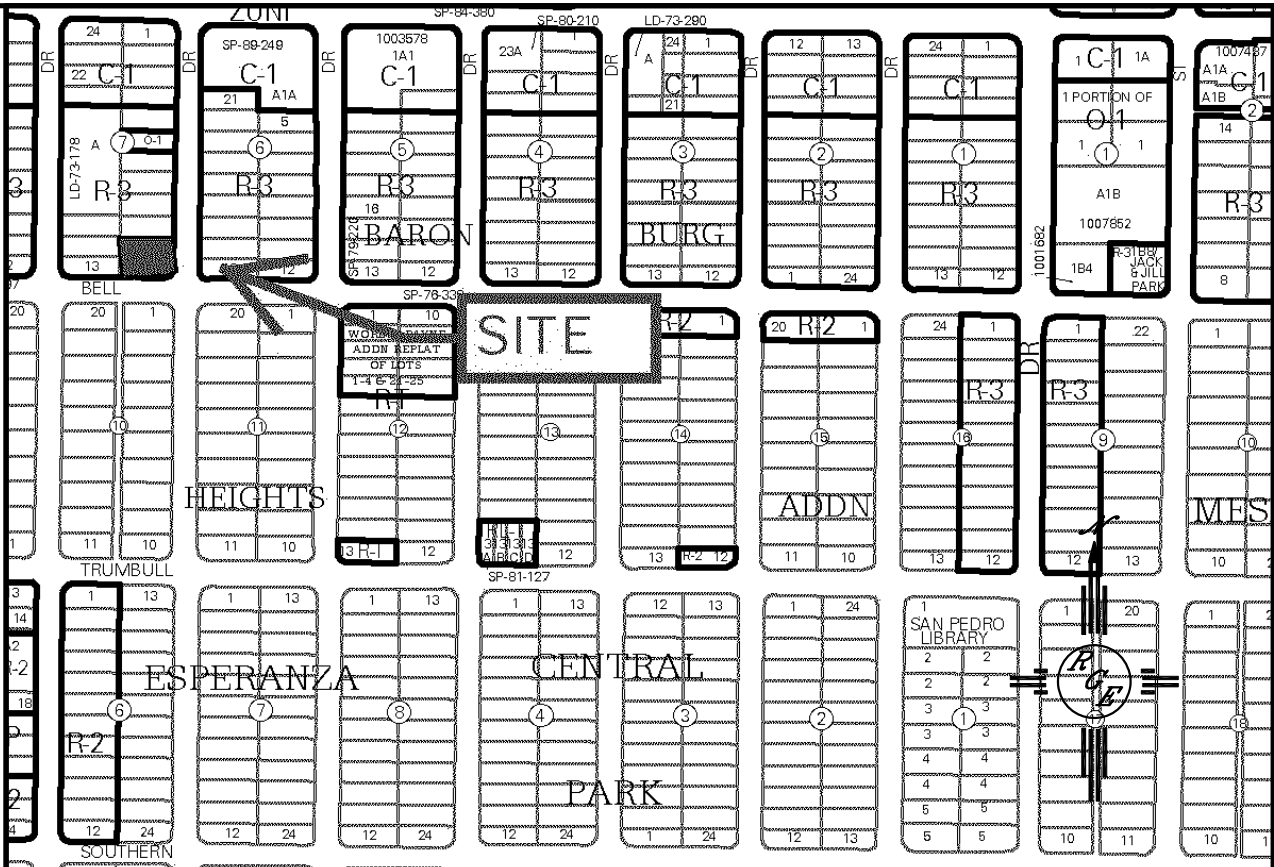


2/13/18



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 11A MEDELSBERG SUBDIVISION

NOTES:

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
2. ALL CURB AND GUTTER TO 6" HEADER UNLESS OTHERWISE NOTED.
3. ALL RETAINING WALL DESIGN SHALL BE BY OTHERS.
4. ALL COMMON WALLS SHALL HAVE BLOCKS TURNED AT GRADE FOR DRAINAGE
5. ANY CURBS OR PAVEMENT NEGATIVELY IMPACTED BY CONSTRUCTION ACTIVITY SHALL BE REPLACED TO MATCH EXISTING CONDITIONS.
6. ALL SITE WORK SHALL CONFORM TO CITY OF ALBUQUERQUE STANDARDS FOR PUBLIC WORKS CONSTRUCTION EDITION 9
7. TECH DESIGN SURVEY PROVIDED BY CONSTRUCTION SURVEY TECHNOLOGY USING NAVD 1988 DATUM.

LEGEND

- 5414--- EXISTING CONTOUR
- - - - -5415- - - EXISTING INDEX CONTOUR
- 5414————— PROPOSED CONTOUR
- 5415————— PROPOSED INDEX CONTOUR
- ▲—— SLOPE TIE
- ▲ EXISTING SPOT ELEVATION
- × 4048.25 PROPOSED SPOT ELEVATION
- BOUNDARY
- CENTERLINE
- RIGHT-OF-WAY
- PROPOSED CURB
- EXISTING CURB AND GUTTER
- PROPOSED SIDEWALK
- EXISTING SIDEWALK

Weighted E Method  
BELL

Existing Developed Basins										100-Year, 6-hr.				24-HOUR	
Basin	Area (sf)	Area (acres)	Treatment A %	Treatment B %	Treatment C %	Treatment D %	Weighted E (ac-ft)	Volume (ac-ft)	Flow cfs	Volume (ac-ft)	Flow cfs	Volume (ac-ft)	Flow cfs	Volume (ac-ft)	Flow cfs
SOUTH BASIN	4353	0.101	0%	0	24.0%	0.024	17.0%	0.01714	59%	0.060	1.833	0.015	0.42	0.018	0.42
NORTH BASIN	9003	0.207	0%	0	17.0%	0.035	6.0%	0.0124	77%	0.159	2.051	0.035	0.93	0.042	0.93
EXISTING	13396	0.308	0%	0	74.0%	0.228	26.0%	0.07996	0%	0.000	1.016	0.026	0.87	0.026	0.87

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 3)

Ea= 0.66	Qa= 1.87
Eb= 0.92	Qb= 2.6
Ec= 1.29	Qc= 3.45
Ed= 2.36	Qd= 5.02

DISCHARGE FROM SITE	
EXISTING	0.87
PROPOSED	0.94

ONSITE Conditions

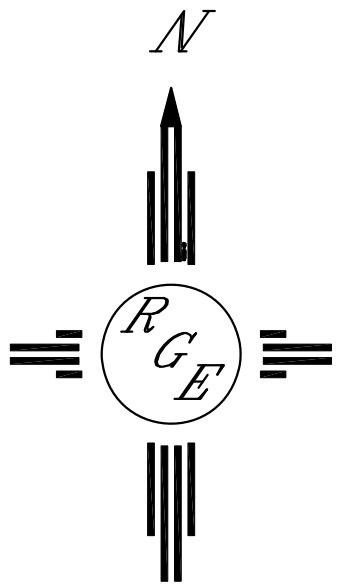
FIRST FLUSH WATER QUALITY VOLUME	REQUIRED (CF)	PROVIDED (CF)
WATER QUALITY	270	808
FLOOD CONTROL (SOUTH BASIN)	779	789

Narrative

This site is an infill lot within an fully developed subdivision. The existing lots all free discharge. Due to existing graded slopes, the existing lot drains to the rear. The plan will direct the north portion of the lot to the adjacent roadway. The southern half of the building shall be retained onsite. The required water harvest volume generated by the site is retained onsite. The site currently discharges .87 cfs and the developed flow rate will be .93 cfs. 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.



GRAPHIC SCALE

SCALE: 1"=20'

ENGINEER'S SEAL



7/6/17

DAVID SOULE  
P.E. #14522

5501 BELL

GRADING AND  
DRAINAGE PLAN

*Rio Grande Engineering*  
1606 CENTRAL AVENUE SE  
SUITE 201  
ALBUQUERQUE, NM 87106  
(505) 872-0999

DRAWN BY WCWJ

DATE  
6-20-17

21754-LAYOUT-6-20-17

SHEET #

CIVIL102

JOB #

21754