

CITY OF ALBUQUERQUE

Planning Department
Brennon Williams, Director



Mayor Timothy M. Keller

April 23, 2021

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

RE: 315 Cornell Dr. SE
Grading and Drainage Plan
Engineer's Stamp Date: 04/12/21
Hydrology File: K16D202

Dear Mr. Soule:

Based upon the information provided in your submittal received 04/13/2021, the Grading and Drainage Plan is approved for Grading Permit.

Once the grading is complete, a pad certification will be required prior to release of Building Permit. Please attach a copy of this approved plan in the construction sets for Building Permit processing along with a copy of this letter and the pad certification approval letter.

Prior to approval in support of Permanent Release of Occupancy by Hydrology, Engineer Certification per the DPM checklist will be required.

If you have any questions, please contact me at 924-3995 or rbrissette@cabq.gov.

Sincerely,

Renée C. Brissette, P.E. CFM
Senior Engineer, Hydrology
Planning Department



City of Albuquerque

Planning Department
Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: 315 CORNELL **Building Permit #:** _____ **Hydrology File #:** _____
DRB#: 315 CORNELL **EPC#:** _____ **Work Order#:** _____
Legal Description: LOT 17 BLOCK 6 University Height Addition
City Address: _____

Applicant: _____ **Contact:** _____
Address: _____
Phone#: _____ **Fax#:** _____ **E-mail:** _____

Other Contact: RIO GRANDE ENGINEERING **Contact:** DAVID SOULE
Address: PO BOX 93924 ALB NM 87199
Phone#: 505.321.9099 **Fax#:** 505.872.0999 **E-mail:** david@riograndeengineering.com

TYPE OF DEVELOPMENT: ☐ PLAT ☐ RESIDENCE ☐ DRB SITE ☒ ADMIN SITE

Check all that Apply:

DEPARTMENT:

☒ HYDROLOGY/ DRAINAGE
☐ TRAFFIC/ TRANSPORTATION

TYPE OF SUBMITTAL:

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

IS THIS A RESUBMITTAL?: ☐ Yes ☒ No

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:** _____

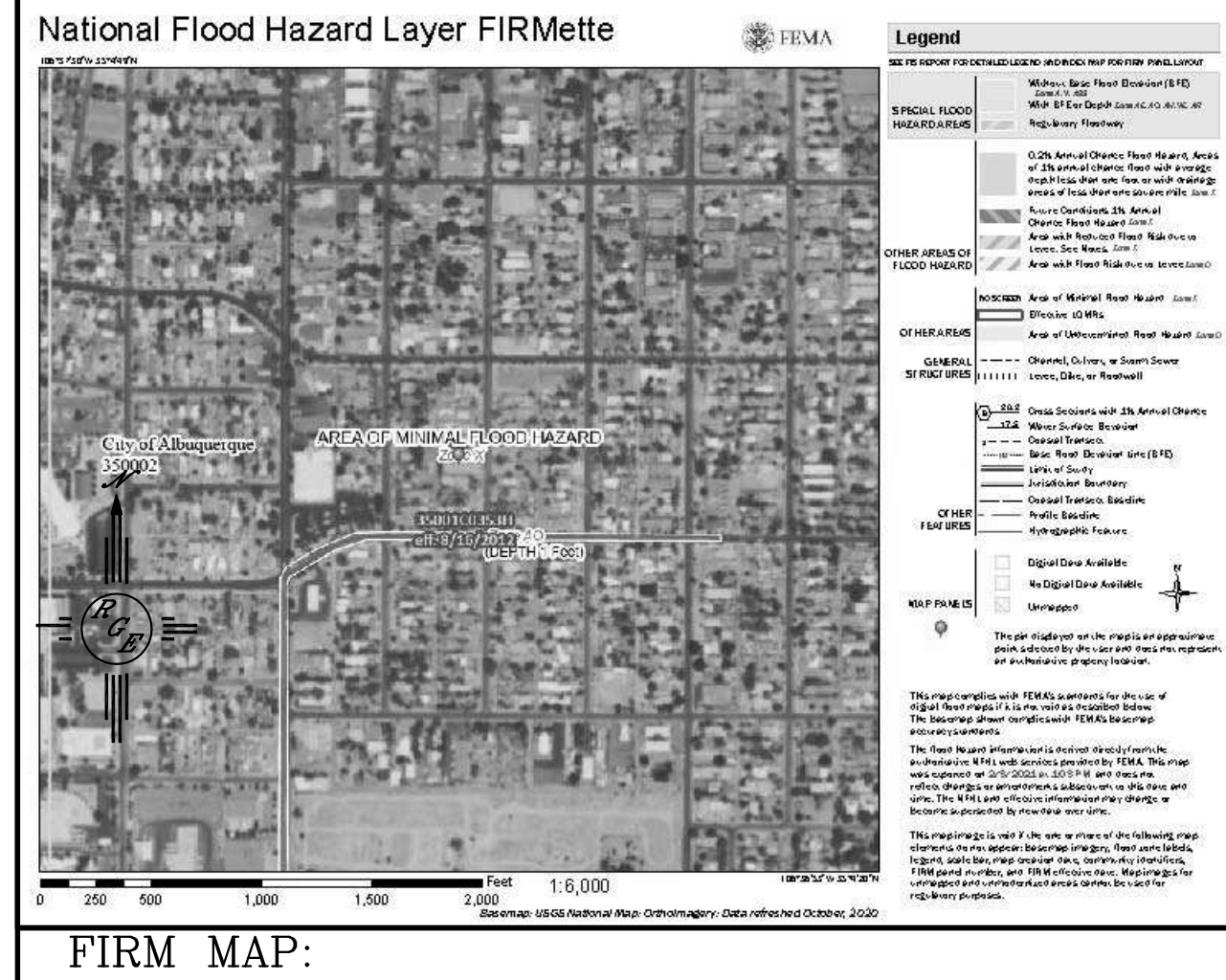
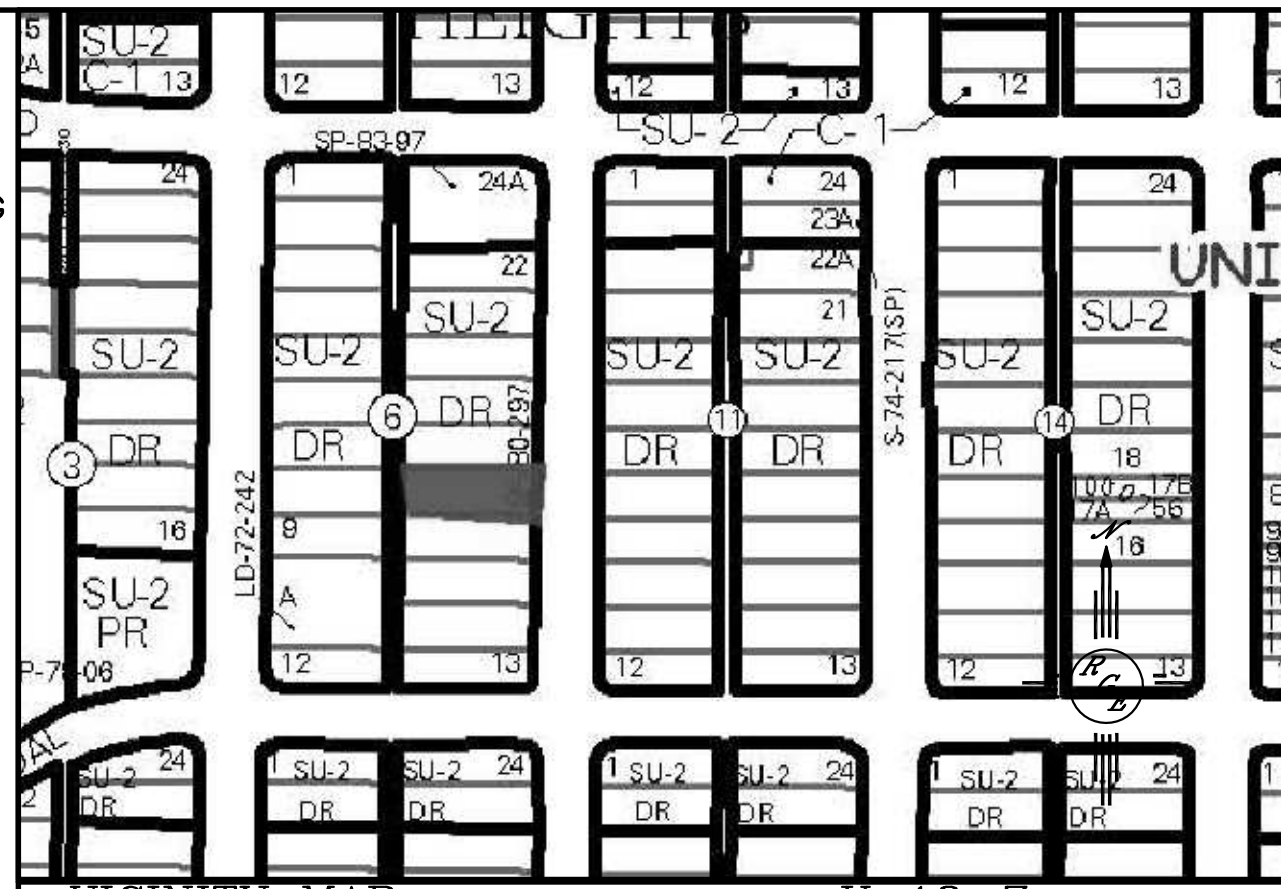
COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____

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:

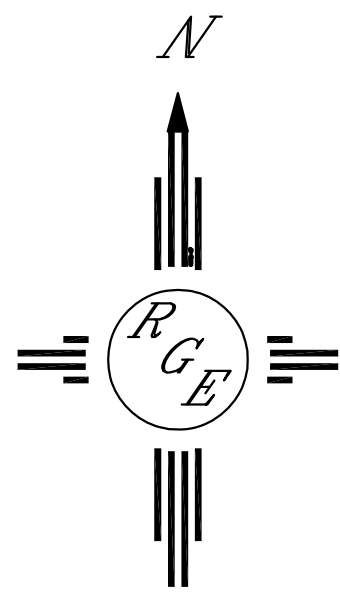
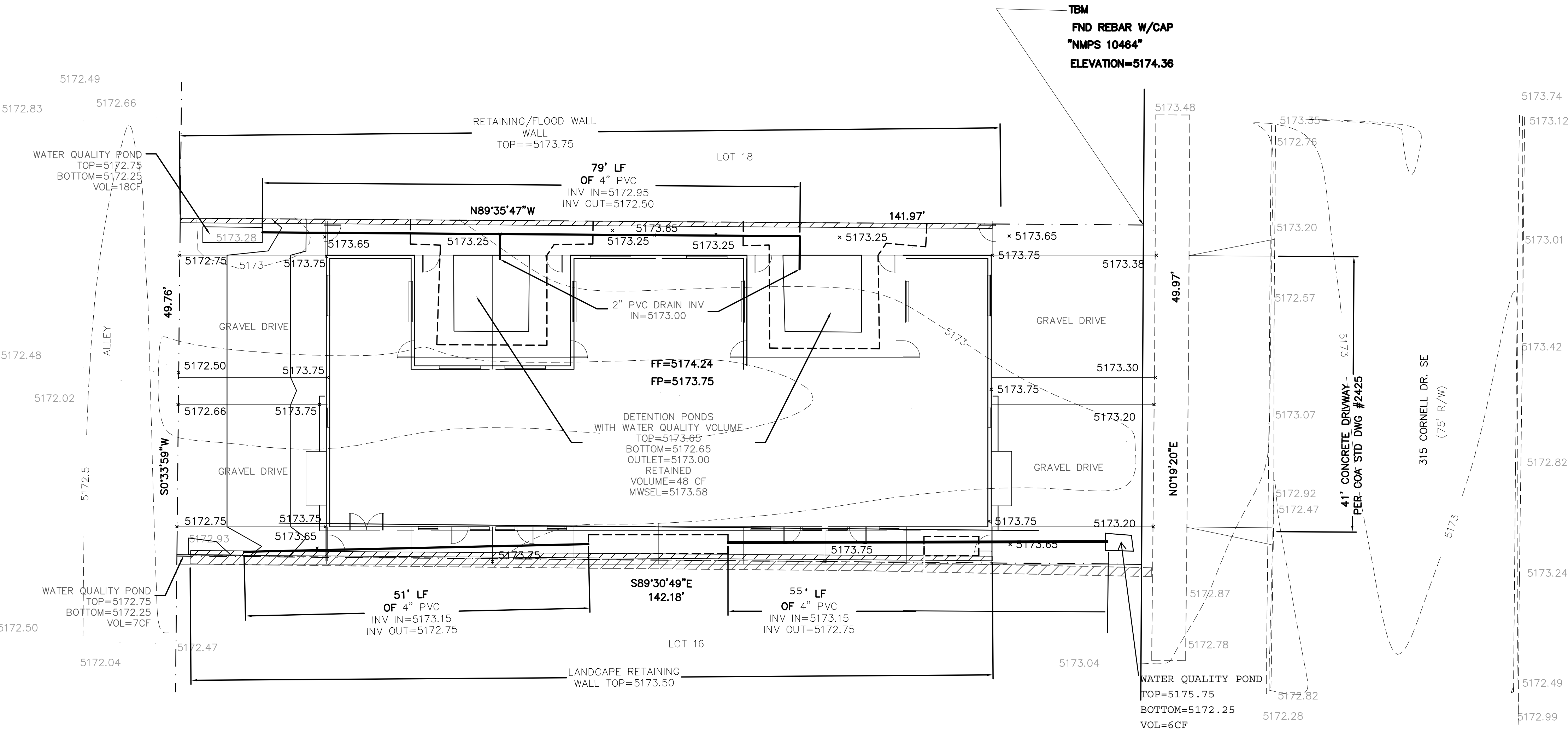
LOT 17, BLOCK 6, UNIVERSITY HEIGHTS ADDITION

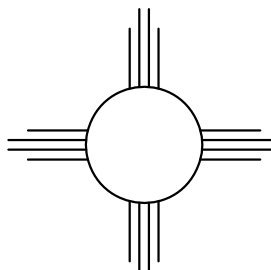
NOTES:

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 NEW PAVING SHALL BE 6" PCC OVER 8" SUBGRADE PREPARATION IN CONFORMANCE TO ACI 330R-08. UNLESS OTHERWISE NOTED.
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

LEGEND

- -5414 --- EXISTING CONTOUR
- -5415 --- EXISTING INDEX CONTOUR
- -5414 --- PROPOSED CONTOUR
- -5415 --- PROPOSED INDEX CONTOUR
- -5415 --- SLOPE TIE
- 1 - 4048.25 EXISTING SPOT ELEVATION
- 1 - 4048.25 PROPOSED SPOT ELEVATION
- --- BOUNDARY
- --- CENTERLINE
- --- RIGHT-OF-WAY
- --- PROPOSED CURB
- --- EXISTING CURB AND GUTTER
- --- PROPOSED SIDEWALK
- --- EXISTING SIDEWALK
- --- 3' ADA PATH-2% MAX SLOPE



ENGINEER'S SEAL	315 CORNELL	DRAWN BY WCWJ
 4/12/21		DATE 2-11-21
		210210014-LAYOUT-2-11-21
		SHEET # 1 OF 2 —
		JOB # 210210014
DAVID SOULE P.E. #14522	 <i>Rio Grande Engineering</i> 1606 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0999	

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.

BASIN DATA

Basin	Area (sf)	Area (acres)	Treatment A % (acres)	Treatment B % (acres)	Treatment C % (acres)	Treatment D % (acres)	Q100 GENERATED	Q100 DISCHARGED			
EXISTING TO CORNELL	0.00	0.000	0%	0	50%	0.000	50%	0	0		
EXISTING TO ALLEY	7162.00	0.164	0%	0	50%	0.082	50%	0.0822	0%	0.43	
PROPOSED TO CORNELL	1160.00	0.027	0%	0	18%	0.005	76%	0.0202	6%	0.002	0.09
PROPOSED TO ALLEY FREE	1506.00	0.035	0%	0	18%	0.006	77%	0.0266	5%	0.002	0.11
PROPOSED TO ALLEY ROUTE	5992.00	0.138	0%	0	10%	0.000	13%	0.0179	77%	0.106	0.25
TOTAL EXISTING											0.43
TOTAL PROPOSED											0.44

FIRST FLUSH(REDEVELOPEMENT (0.48" PER SF IMP) 103.106 required
113.000 provided

* SITE DISCHARGE CALCULATED UTILIZING AHYMO. THE DETENTION POND HAS DIFFERENT Tp THEREFORE THE CUMULATIVE DISCHARGE IS SLIGHTLY LESS THAN THE SUMMATION OF EACH BASIN

Narrative

The subject property is located within a fully developed area of SE Albuquerque. All down stream drainage improvements have been completed. This is a new development of an site that discharges 0.43 to the alley to the west. The proposed improvements will free discharge.09 cfs to cornell and .26 cfs to the alley. The improved areas will pass thru a detention pond with a water quality volume below the outlet pipe. The outlet pipe size restricts the flow and the courtyards are sized to contain the volume. The site discharges 0.01 cfs greater than historical and retains the water quality volume on site.

POND STAGE-STORAGE

ACTUAL ELEV	DEPTH (FT)	AREA SF	VOLUME PER UNIT	VOLUME CUMULATIVE	VOLUME AC-FT	Q (CFS)
72.65	0.00	168.00	0	0	0.000	0.00
73.00	0.00	236.00	70.70	70.7	0.001	0.00
73.50	0.50	668.00	226.00	296.7	0.001	0.12
73.65	0.65	1084.00	131.40	428.1	0.010	0.13

Orifice Equation
Q = CA SQRT(2gh)
C = 0.6
Diameter (in) 2.5
Area (ft^2)= 0.034088462
g = 32.2
H (ft) = Depth of water above center of orifice
Q (CFS)= Flow

2

0.24

0.26

AHYMO.OUT
 - Version: S4.01a - Rel: 01a
 AHYMO PROGRAM (AHYMO-S4)
 RUN DATE (MM/DD/YYYY) = 04/08/2021
 START TIME (HH:MM:SS) = 14:43:24
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 R12(MP1 File) =
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