

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

December 30, 2022

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

RE: 4000 2nd St. NW
Grading and Drainage Plan
Engineer's Stamp Date: 12/02/2022
Hydrology File: G14D100

Dear Mr. Soule:

Based upon the information provided in your submittal received 12/14/2022, the Grading & Drainage Plans and Drainage Report are approved for 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.

PO Box 1293

PRIOR TO CERTIFICATE OF OCCUPANCY:

Albuquerque

1. Engineer's Certification, per the DPM Part 6-14 (F): *Engineer's Certification Checklist For Non-Subdivision* is required.

NM 87103

2. Please provide the executed paper Drainage Covenant (latest revision) printed on one-side only with Exhibit A and a check for \$25 made out to "Bernalillo County" for the stormwater quality ponds per Article 6-15(C) of the DPM to Hydrology for review. Once the review is done, Hydrology will send back an email stating our approval/comments.

www.cabq.gov

As a reminder, if the project total area of disturbance (including the staging area and any work within the adjacent Right-of-Way) is 1 acre or more, then an Erosion and Sediment Control (ESC) Plan and Owner's certified Notice of Intent (NOI) is required to be submitted to the Stormwater Quality Engineer (Doug Hughes, PE, jhughes@cabq.gov, 505-924-3420) 14 days prior to any earth disturbance.

If you have any questions, please contact me at 505-924-3695 or tchen@cabq.gov.

Sincerely,

Tiequan Chen, P.E.
Principal Engineer, Hydrology
Planning Department, Development Review Services



City of Albuquerque

Planning Department
Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: DISCOUNT TOWING **Building Permit #:** _____ **Hydrology File #:** _____
DRB#: _____ **EPC#:** _____ **Work Order#:** _____
Legal Description: 1A, 2A, 8A-13A BLOCK A MONKBRIDGE ADDITION
City Address: 4000 SECOND STREET

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: _____

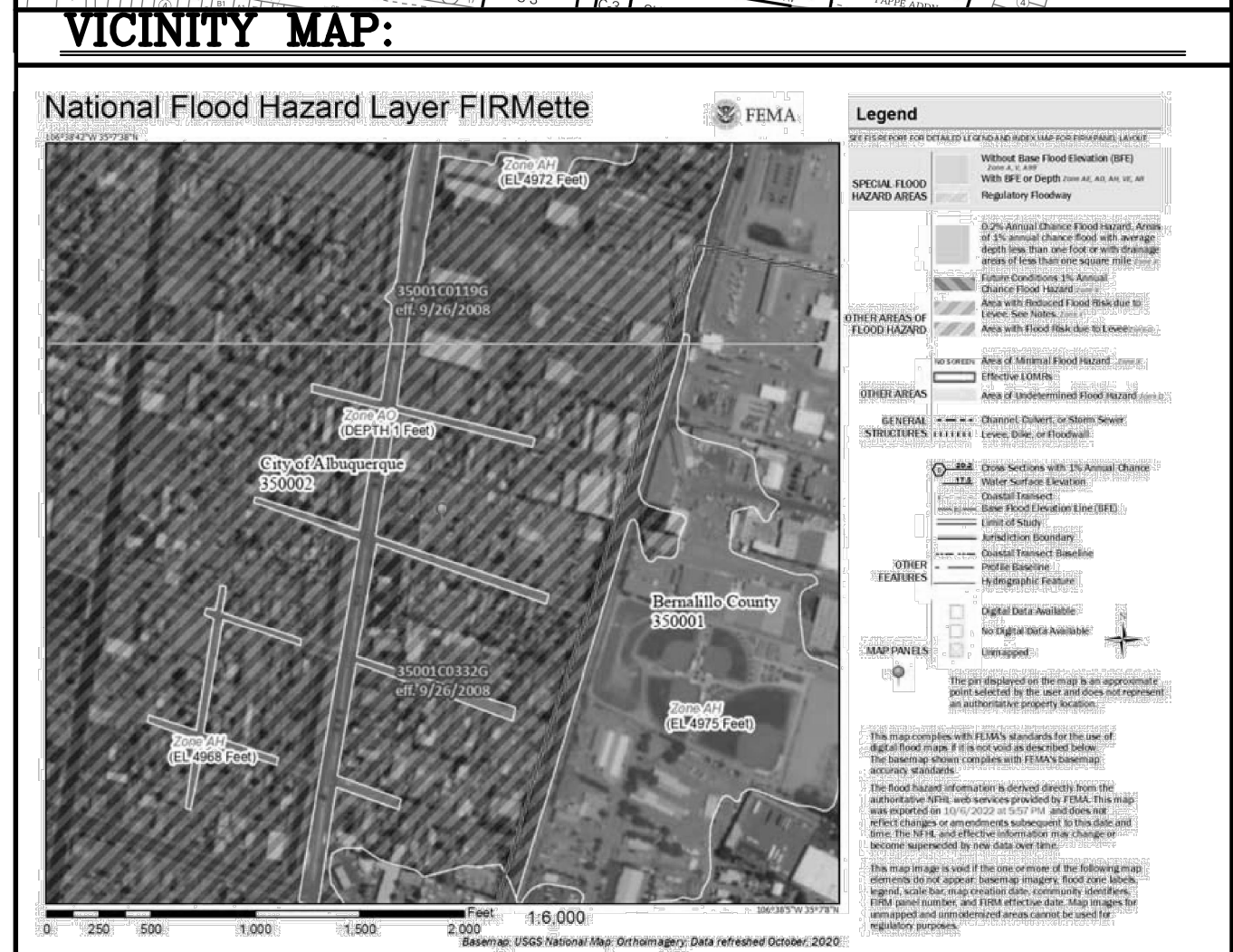
KEYED NOTES

- 1 MAINTAIN EXISTING DRAINAGE AROUND EXISTING BUILDING
- 2 EDGE OF PAVEMENT
- 3 PROPOSED 2' CONCRETE VALLEY GUTTER
- 4 INSTALL DRIVEWAY PER COS STD DWG 2426
- 5 EXISTING STORM DRAIN INLET
INSTALL 8" PVC INTO
INV. = 4958.00
- 6 47 LF OF 8" PVC
INV. IN= 4958.25
INV. OUT= 4958.00
- 7 TYPE "D" DROP INLET
TOG= 4961.75
INV. OUT= 4958.25
INV. IN (W)= 4958.50
INV. IN (E)= 4958.50
INSTALL ORIFICE PLATE @ INV.= 4958.50
MWSEL= 4961.96
100 LF OF 8" PVC
INV. IN= 4959.00
INV. OUT= 4958.50
- 8 TYPE "D" DROP INLET
TOG= 4961.75
INV. OUT= 4959.00
- 9 222 LF OF 8" PVC
INV. IN= 4959.33
INV. OUT= 4958.50
- 10 TYPE "D" DROP INLET
TOG= 4962.5
INV. OUT= 4959.33
INSTALL ORIFICE PLATE W/3" HOLE @ INV.= 4959.75
- 11 DETENTION BASIN IN PARKING AREA
TOP= 4962.50
BOTTOM= 4961.75
MWSEL= 4961.96
- 12 DETENTION BASIN IN PARKING AREA
TOP= 4962.50
BOTTOM= 4961.75
MWSEL= 4961.96
- 13 DETENTION BASIN IN PARKING AREA
TOP= 4962.50
BOTTOM= 4961.75
MWSEL= 4961.96
- 14 DETENTION BASIN IN PARKING AREA
TOP= 4962.50
BOTTOM= 4961.75
MWSEL= 4961.96
- 15 DETENTION BASIN IN PARKING AREA
TOP= 4962.50
BOTTOM= 4961.75
MWSEL= 4961.96
- 16 DETENTION BASIN IN PARKING AREA
TOP= 4962.50
BOTTOM= 4961.75
MWSEL= 4961.96
- 17 DETENTION BASIN IN PARKING AREA
TOP= 4962.50
BOTTOM= 4961.75
MWSEL= 4961.96
- 18 RETENTION POND C
TOP= 4962.85
BOTTOM= 4960.50
VOLUME= 955 CF
- 19 DETENTION POND A/ WITH WATER QUALITY VOLUME= 1074 CF
TOP= 4963.25
OVERFLOW= 4962.50
BOTTOM= 4960.50
MWSEL= 4962.57
- 20 DETENTION POND A/ WITH WATER QUALITY VOLUME= 1074 CF
TOP= 4963.25
OVERFLOW= 4962.50
BOTTOM= 4960.50
MWSEL= 4962.57
- 21 DETENTION POND A/ WITH WATER QUALITY VOLUME= 1074 CF
TOP= 4963.25
OVERFLOW= 4962.50
BOTTOM= 4960.50
MWSEL= 4962.57
- 22 DETENTION POND A/ WITH WATER QUALITY VOLUME= 1074 CF
TOP= 4963.25
OVERFLOW= 4962.50
BOTTOM= 4960.50
MWSEL= 4962.57



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.



FIRM MAP:

LEGAL DESCRIPTION:

NOTES:
1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.

2. ALL SLOPES SHALL BE 3:1 MAX. AND GRAVEL OR NATIVE SEEDING PRIOR TO CO.

3. ANY PERIMETER WALLS MUST BE PERMITTED SEPARATELY ALL RETAINING WALL DESIGN SHALL BE BY OTHERS.

4. SURVEY INFORMATION PROVIDED BY COMMUNITY SCIENCES CORPORATION USING NAVD DATUM 1988.

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BASIN DATA

Basin	Area (sf)	Area (acres)	Treatment A		Treatment B		Treatment C		Treatment D		Q100	Q100
			%	(acres)	%	(acres)	%	(acres)	%	(acres)	GENERATED	DISCHARGED
EXSITING ONSITE NATIVE	90661	2.081	100%	0.0000	0.0%	0.1216	0.0%	0.7660	0%	1.1937	2.87	2.87
EXSITING ONSITE	90661	2.081	0%	0.0000	10.0%	0.1216	58.0%	0.7660	32%	1.1937	6.23	6.23
ONSITE A	21103	0.484	0%	0.0000	10.0%	0.0484	78.0%	0.3779	12%	0.0581	1.34	0.40
ONSITE B	49375	1.133	0%	0.0000	0.0%	0.0000	26.0%	0.2947	74%	0.8388	4.09	3.08
ONSITE C	5660	0.130	0%	0.0000	5.0%	0.0065	18.0%	0.0234	77%	0.1001	0.49	0
ONSITE D	14523	0.333	0%	0.0000	20.0%	0.0667	21.0%	0.0700	59%	0.1967	1.11	1.22

* ROUTED A ADDED TO B

PREDEVELOPMENT DISCHARGE TO HEADINGLY6.23

POST DEVELOPMENT DISCHARGE TO HEADINGLY3.52 **

** DUE TO POND ROUTING THE TOTAL DISCHARGE IS NOT SIMPLE ADDITION OF EACH BASIN DISCHARGE

FIRST FLUSH .26" PER SF IMPERVIOUS

1126.59 CF REQUIRED--- 2029 PROVIDED

City of Albuquerque
Planning Department
Development Review Services
HYDROLOGY SECTION

APPROVED

DATE: 12/30/2022

BY: 

HydroTrans # G14D100

THE APPROVAL OF THESE PLANS/REPORT SHALL NOT BE
CONSTRUED TO PERMIT VIOLATIONS OF ANY CITY
ORDINANCE OR STATE LAW AND SHALL NOT PREVENT
THE CITY OF ALBUQUERQUE FROM REQUIRING
CORRECTION OR ERROR OR DIMENSIONS IN PLANS,
SPECIFICATIONS, OR CONSTRUCTIONS. SUCH APPROVED PLANS
SHALL NOT BE CHANGED, MODIFIED OR ALTERED WITHOUT
AUTHORIZATION.

VOLUME CALCULATIONS

POND A

outfall

ACTUAL ELEV.	DEPTH (FT)	AREA SF	VOLUME PER UNIT	VOLUME CUMULATIVE	VOLUME AC-FT	Q (CFS)
60.50	0.00	34.00	0	0	0.000	0.00
61.00	0.00	242.00	69.00	69.00	0.002	0.00
62.50	2.75	1098.00	1005.00	1074.00	0.025	0.39
63.00	3.25	2816.00	978.50	2052.50	0.047	0.43
63.25	3.50	5324.00	1017.50	3070.00	0.070	0.44

Orifice Equation
Q = CA SQRT(2gH)

C = 0.6
Diameter (in) 3
Area (ft^2)= 0.049087385
g = 32.2
H (Ft) = Depth of water above center of orifice
Q (CFS)= Flow

VOLUME CALCULATIONS

PARKING LOT DETENTION POND-B

OUTFALL

ACTUAL ELEV.	DEPTH (FT)	AREA SF	VOLUME PER UNIT	VOLUME CUMULATIVE	VOLUME AC-FT	Q (CFS)
58.50	0.00	8.00		0	0.000	0.00
61.75	3.25	8.00	26.00	26.00	0.001	3.03
62.25	3.50	4660.00	2217.30	2243.30	0.051	3.14

Orifice Equation
Q = CA SQRT(2gH)

C = 0.6
Diameter (in) 8
Area (ft^2)= 0.34906585
g = 32.2
H (Ft) = Depth of water above center of orifice
Q (CFS)= Flow

ENGINEER'S
SEAL



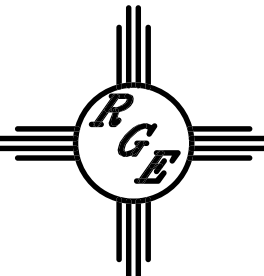
12/2/22

DAVID SOULE
P.E. #14522

DISCOUNT TOWING

4000 SECOND STREET

CALCULATION SHEET



*Rio Grande
Engineering*

PO BOX 53924
ALBUQUERQUE, NM 87199
(505) 321-9099

DRAWN
BY DEM

DATE
10-10-22

DISCOUNT TOWING.DWG

SHEET #
C2

JOB #

[illegible][illegible]