CITY OF ALBUQUERQUE

Planning Department David Campbell, Director



Mayor Timothy M. Keller

August 17, 2018

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

RE: McMahon Carwash McMahon and Fineland NW Grading Plan Stamp Date: 8/17/18 Drainage Report Stamp Date: 8/17/18 Hydrology File: A11D016A

Dear Mr. Soule,

PO Box 1293 Based on the submittal received 8/13/18 and updated information provided on 8/17/18, the Grading Plan and Drainage Report are approved for Preliminary Plat and Building Permit.

On the Preliminary Plat:

1. Provide a private drainage easement for the storm drain; include beneficiary and maintenance responsibilities.

NM 87103 Prior to Certificate of Occupancy (For Information):

2. Engineer's Certification, per the DPM Chapter 22.7: *Engineer's Certification Checklist For Non-Subdivision* is required.

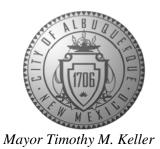
www.cabq.gov

Albuquerque

- 3. The Engineer's Certification for Kidz Academy (A11D016) must be accepted by the City. This project provides the downstream conveyance for the new carwash and must be complete prior to acceptance of the upstream development.
- 4. A Bernalillo County Recorded Private Facility Drainage Covenant is required for the stormwater quality pond. The original notarized form, exhibit A (legible on 8.5x11 paper), and recording fee (\$25, payable to Bernalillo County) must be turned into DRC (4th, Plaza del Sol) for routing. Please contact Charlotte LaBadie (clabadie@cabq.gov, 924-3996) or Madeline Carruthers (mtafoya@cabq.gov, 924-3997) regarding the routing and recording process for covenants. The routing and recording process for covenants can take a month or longer; Hydrology recommends beginning this process as soon as possible as to not delay approval for certificate of occupancy.

CITY OF ALBUQUERQUE

Planning Department David Campbell, Director



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

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov



City of Albuquerque

Planning Department Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: MCMAHON CARWASH	Building Permit #:	Hydrology File #: A11D016A
DRB#:	EPC#:	Work Order#:
Legal Description: TRACT A-1-B	FINELAND DEVELOPMENT	
City Address: MCMAHON AND FIN		
Applicant: COMMERCIAL CONSTRU Address: PO BOX 93924 ALB NM		E Contact:
Phone#:	Fax#:	E-mail:
Other Contact: RIO GRANDE ENGI	NEERING	
Address: PO BOX 93924 ALB N		
Phone#: 505.321.9099	Fax#:	E-mail: com
TYPE OF DEVELOPMENT: PLA		
Check all that Apply:		
DEPARTMENT: <u>×</u> HYDROLOGY/ DRAINAGE TRAFFIC/ TRANSPORTATION	<u> </u>	PROVAL/ACCEPTANCE SOUGHT: G PERMIT APPROVAL CATE OF OCCUPANCY
TYPE OF SUBMITTAL: ENGINEER/ARCHITECT CERTIFICATION PAD CERTIFICATION CONCEPTUAL G & D PLAN GRADING PLAN DRAINAGE REPORT DRAINAGE MASTER PLAN FLOODPLAIN DEVELOPMENT PERMIT ELEVATION CERTIFICATE CLOMR/LOMR TRAFFIC CIRCULATION LAYOUT (TO TRAFFIC IMPACT STUDY (TIS) STREET LIGHT LAYOUT OTHER (SPECIFY) PRE-DESIGN MEETING? IS THIS A RESUBMITTAL?: Yes	I SITE PLA SITE PLA SITE PLA FINAL PI SIA/ RELI GRADING GRADING SO-19 AP CL) AWORK OR CLOMR/L FLOODPI OTHER (5)	PERMIT APPROVAL G/ PAD CERTIFICATION DER APPROVAL
DATE SUBMITTED:		
COA STAFF:	ELECTRONIC SUBMITTAL RECEIVEI	D:

CITY OF ALBUQUERQUE

Planning Department David Campbell, Director



Mayor Timothy M. Keller

July 18, 2018

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

RE: **McMahon Carwash McMahon and Fineland NW** Grading Plan Stamp Date: 6/20/18 Drainage Plan Stamp Date: 6/20/18 Hydrology File: A11D016A

Dear Mr. Soule.

Based on the submittal received 7/10/18, the Grading Plan and Drainage Report cannot be PO Box 1293 approved for until the following are corrected:

Prior to Building Permit:

Albuquerque

- 1. The first flush retention areas need to be clarified. The 4 small ponds in West Basin do not adequately capture the required volume. The north pond is higher than the parking lot and nothing seems to drain to it. The center pond has the grate elevation set at the bottom of the NM 87103 pond, so no dead storage is provided. The area draining to the 2 south ponds needs to be quantified, and the ponds sized to retain this first flush volume. WE HAVE UPDATED POND TO CAPTURE FIRST FLUSH
- 2. Provide minor contour labels and define spot elevations (top of curb, flowline, etc...). The www.cabq.gov spot elevations don't appear to agree with the proposed contours and it is difficult to see where the emergency overflows will go if the orifice plate clogs. WE HAVE CORRECTED CONTOURS AND ADDED LABELS
 - 3. The elevations used in the volume calculations and orifice plate sizing (appendix B) do not match those on the grading plan. Please correct and show the max water surface elevation on the grading plan. WE HAVE CORRECTED AND SHOWN MSWEL
 - 4. A Bernalillo County Recorded Private Facility Drainage Covenant is required for the first flush pond. The original notarized form, exhibit A (legible on 8.5x11 paper), and recording fee (\$25, payable to Bernalillo County) must be turned into DRC (4th, Plaza del Sol) for routing. Please contact Charlotte LaBadie (clabadie@cabq.gov, 924-3996) or Madeline Carruthers (mtafoya@cabq.gov, 924-3997) regarding the routing and recording process for covenants.
 - 5. This project requires an ESC Plan, submitted to the Stormwater Quality Engineer (Curtis Cherne PE, ccherne@cabq.gov or 924-3420). AN ESC HAS BEEN ORDERED

Find Hydrology forms and information at: cabq.gov/planning/development-review-services/hydrology-section

CITY OF ALBUQUERQUE

Planning Department David Campbell, Director



Mayor Timothy M. Keller

Prior to Certificate of Occupancy (For Information):

- 6. Engineer's Certification, per the DPM Chapter 22.7: *Engineer's Certification Checklist For Non-Subdivision* is required.
- 7. The Engineer's Certification for Kidz Academy (A11D016) must be accepted by the City. This project provides the downstream conveyance for the new carwash and must be complete prior to acceptance of the upstream development.
- 8. The Private Facility Drainage Covenant must be recorded with Bernalillo County and a copy included with the drainage certification.

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

Sincerely,

PO Box 1293

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

Albuquerque

NM 87103

www.cabq.gov

REVISED DRAINAGE REPORT

For

Car wash Parcel A1B Fineland Subdivision

Albuquerque, New Mexico

Prepared by

Rio Grande Engineering PO Box 93924 Albuquerque, New Mexico 87199

JULY 2018



David Soule P.E. No. 14522

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Existing Conditions	3
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Proposed Conditions	5
Summary	5

<u>Appendix</u>

Site Hydrology	Δ
Hydraulic Model and calculations	В

Map Site Grading and Drainage Plan

PURPOSE

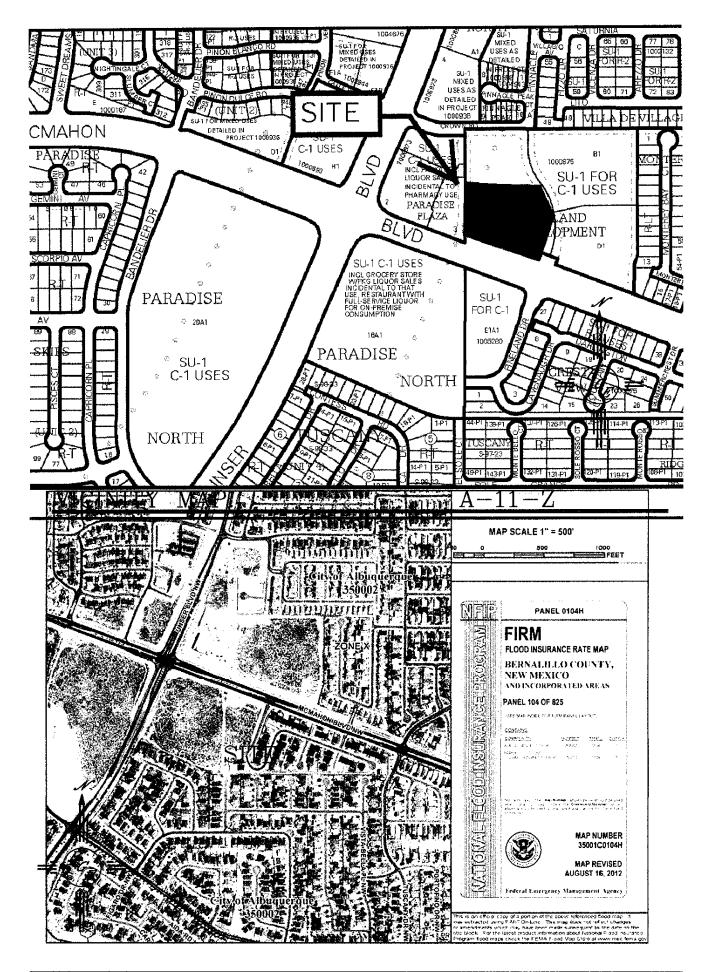
The purpose of this report is to provide the Drainage Management Plan for the subdivision of a 2.689 acre tract and the construction of a new carwash building with associated parking lot on the western 1.12 acres. This plan was prepared in accordance with the City of Albuquerque design regulations, utilizing the City of Albuquerque's Development Process Manual drainage guidelines. This report will demonstrate that the grading does not adversely affect the surrounding properties, nor the upstream or downstream facilities.

INTRODUCTION

The subject of this report, as shown on the Exhibit A, is a 2.689 -acre parcel of land located on the west side of Fineland drive between McMahon and Crown road. The legal description of this site is A1B Fineland Subdivision. As shown on FIRM map35001C0104H, the entire site is located within Flood Zone X. The site is bound on all sides by roadways and not impacted by upland flows. The site is an undeveloped site. The site currently retains all of its flow in a temporary retention pond constructed with the adjacent Kidz academy. The site is located within basin O as shown in the area drainage plan (A11D009). The proposed improvements include the construction of a car wash with parking on the westerly 1.12 acres of tract A1B. The remaining A1B will not be developed at this time. This site must conform to the 0.79 cfs per acre assigned within the A11D016 drainage plan and discharge to the existing storm drain system within Crown. The site must manage the first flush volume onsite.

EXISTING CONDITIONS

The site is currently a mass graded site. The site currently retains all developed flow in a temporary retention pond. The adjacent site Kids Academy (file A11D016) is currently being constructed. The outfall for this site is under construction. Due to being higher than the surrounding roadways, the site is not impacted by upland flows.



FIRM MAP:

FM35001C0104H

PROPOSED CONDITIONS

The proposed improvements consist of new building with exterior parking area within the westerly 1.12 acres of tract A1B. The easterly portion of tract A1B will not be developed at this time, but allowance for its future development is provided. The proposed site development will contain 1 basin. The entire site drains to a detention pond with an inlet. The inlet will outfall to the 18" storm drain stubbed into the overall tract. This basin free discharges 4.59 cfs to the pond. The outlet flow is metered by the introduction of an orifice plate with a 3.75" opening. The pond and adjacent parking lot functions as the detention basin. The water quality volume of 1153 cfs is retained onsite. As shown in appendix B, this pond was modeled using AHYMO and the resultant peak out fall will be 0.82 cfs with a maximum water surface elevation of 5290.93. In the event of clogging the site will discharge to the west onto tract A1A and flow out the driveway to Fineland as the emergency overflow. The inlet is connected to an 18" storm drain which will be connected to an existing manhole at Crown. The east Basin contains the undeveloped portion tract A1B. This basin generates 5,377 cubic feet during the 100 year, 10-day event. The undeveloped flow from this basin is captured in a temporary retention pond. The future development must limit its peak flow to 1.26 cfs. The proposed flow leaving this site is 0.82 CFS which is 73 cfs per acre. which matches the allowed rate of .79 cfs per acre.

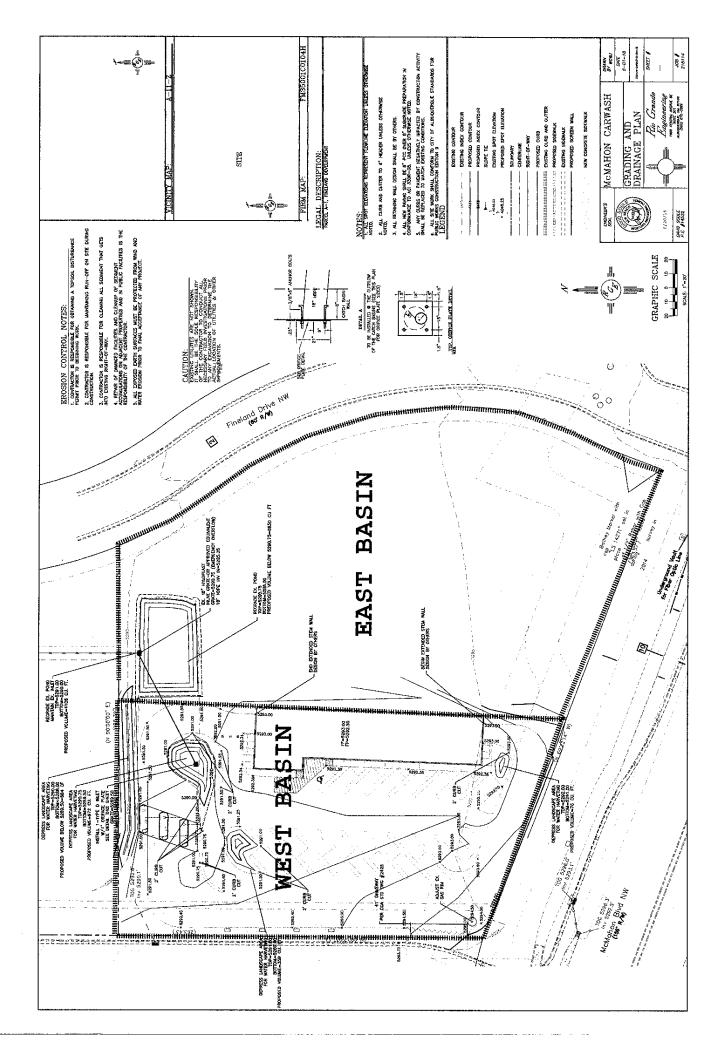
SUMMARY AND RECOMMENDATIONS

This project is located within basin O of the area drainage plan (A11D009). The overall tract has an allowed total peak discharge to the city maintained facilities of 2.15 cfs (0.79 cfs per acre). The first flush volume of 1153 cubic feet is retained onsite. The proposed development retains 1214 cubic feet, and discharges .82 cfs. The plan allows for the future development of the parcel A1B. The onsite storm drain was designed to convey the flow. The ponds will overflow in an emergency or clogging situation via the parking lot discharging to Fineland. The development of this site will not negatively impact the upstream nor down stream facilities. Since the work area does exceed 1 acre, erosion and sediment Control Plan shall be required

APPENDIX A

SITE HYDROLOGY

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APPENDIX B

HYDRAULIC MODELING AND CALCULATIONS

Pipe Capacity

Pipe	D	Slope	Area	R	Q Provided	Q Required	Velocity
	(in)	(%)	(ft^2)		(cfs)	(cfs)	(ft/s)
18HDPE	18	0.8	1.77	0.375	8.16	0.88	0.50

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

A = Area

R = D/4

S = Slope n = 0.015

VOLUME CALCULATIONS

PARKING LOT POND

	ACTUAL	DEPTH	AREA	VOLUME	VOLUME	VOLUME	Q
	ELEV.	(FT)	SF	PER UNIT	CUMULATIVI	AC-FT	(CFS)
INVER OUT	86	0	0	0	0	0.000	
POND BOTTOM	87.25	0.00	184.00	41.4	40	0.001	0.00
GRATE	88.75	2.75	1184.00	855.00	895	0.021	0.61
POND TOP	90.50	4.50	2480.00	1374.00	2269	0.052	0.78
DETENTIION TOP	91.00	5.00	9210.00	2922.50	5191.5	0.119	0.83
		-					

90.45

Orifice Equation Q = CA SQRT(2gH)

C =	0.6
Diameter (in)	3.75
Area (ft^2)=	0.076699039
g =	32.2
H (Ft) =	Depth of water above center of orifice
Q (CFS)=	Flow

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	ENTION-mcmahon carwash ROUTING
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	OUTFLOW(CFS)	STORAGE(AC-FT)	ELEV(FT)
	0.00	0.001	86.00
	0,61	0.021	88.75
	0.78	0.052	90.50
	0,83	0.119	91.00

FINISH

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			AHYMO.O	UT		
	4.500	0.0	9.450	0.0	14.400	0.0
19.350	0.0	24.300	0.0			
	4.650	0.0	9.600	0.0	14.550	0.0
19.500	0.0	24.450	0.0			
	4.800	0.0	9.750	0.0	14.700	0.0
19.650	0.0					
	RUNOFF VOLU	ME = 2.202		=	0.2041 ACRE-F	EET
	PEAK DISCHA	RGE RATE =	4.59 CFS	AT	1.500 HOURS BASE	IN AREA =
0.0017	SQ. MI.					

* ROUTE THE TOTAL ROUTE RESERVOIR	ID=2 HYD NO=	PROPOSED RESERVO 102 INFLOW=1 STORAGE(AC-FT) 0.001 0.78	CODE=3	90.50
	0.83	0.119	91.00	

*	*	*	*	*	*	*	'n	*	*	*	*	*	*	*	*	*
	TIM (HR				FLO FS)			LEV FEE			VOL (AC	UME -FT			TFL FS)	OW
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TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
	$\begin{array}{c} 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 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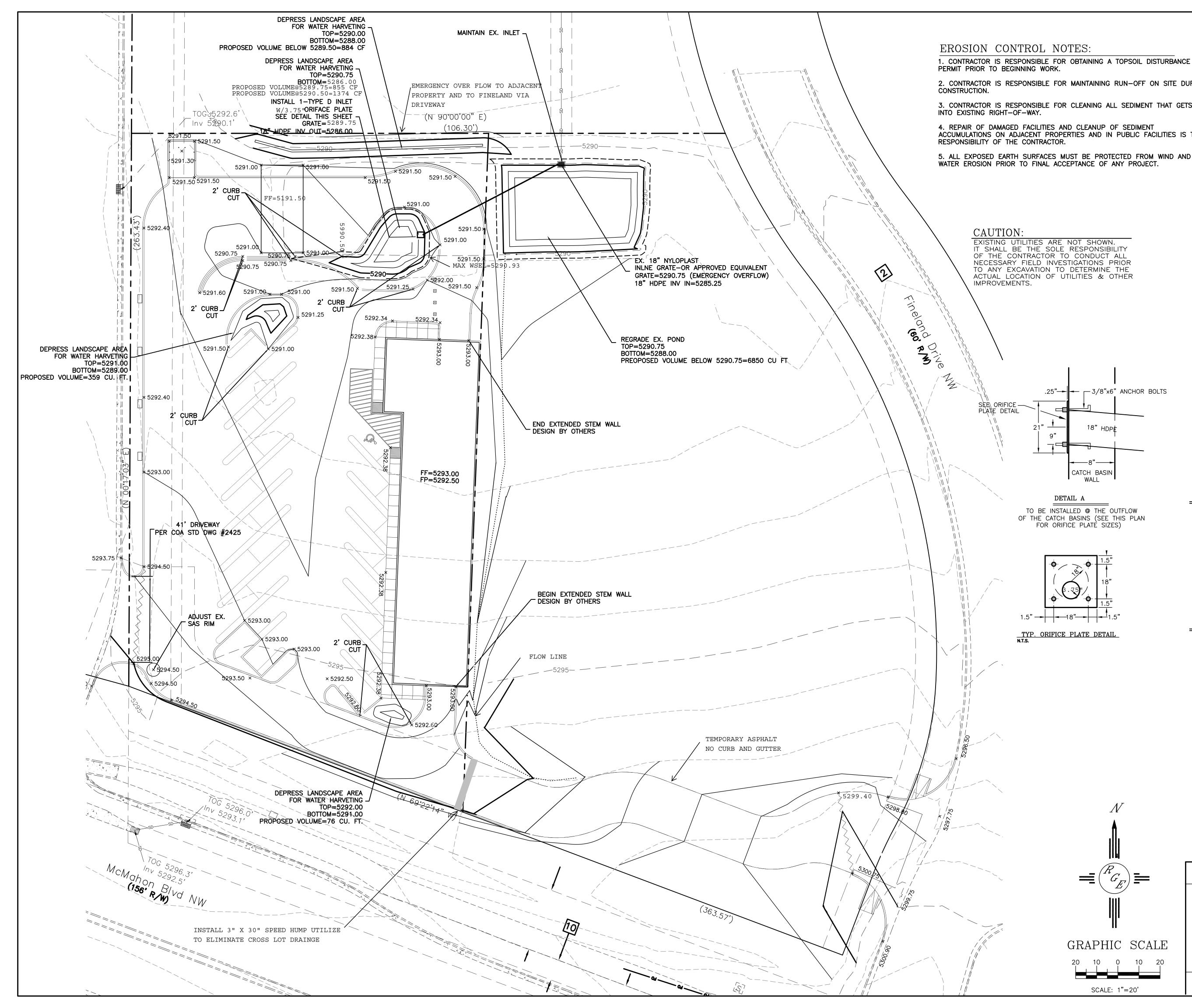
$12.75 \\ 12.90 \\ 13.05 \\ 13.20 \\ 13.35 \\ 13.50 \\ 13.65 \\ 13.80 \\ 13.95 \\ 14.10 \\ 14.25 \\ 14.40 \\ 14.55 \\ 14.40 \\ 14.55 \\ 14.70 \\ 14.85 \\ 15.00 \\ 15.15 \\ 15.00 \\ 15.45 \\ 15.60 \\ 15.75 \\ 15.90 \\ 16.05 \\ 16.50 \\ 16.50 \\ 16.65 \\ 16.65 \\ 16.65 \\ 16.65 \\ 16.65 \\ 16.65 \\ 16.65 \\ 16.65 \\ 16.65 \\ 16.65 \\ 16.65 \\ 16.65 \\ 16.65 \\ 16.65 \\ 16.65 \\ 16.65 \\ 16.65 \\ 16.65 \\ 16.65 \\ 16.65 \\ 16.65 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 10.05 \\ 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TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
$16.80 \\ 16.95 \\ 17.10 \\ 17.25 \\ 17.40 \\ 17.55 \\ 17.70 \\ 17.85 \\ 18.00 \\ 18.15 \\ 18.30 \\ 18.45 \\ 18.60 \\ 18.75 \\ 18.90 \\ 19.05 \\ 19.05 \\ 19.20 \\ 19.35 \\ 19.50 \\ 19.35 \\ 19.50 \\ 19.65 \\ 19.80 \\ 19.95 \\ 20.10 \\ 20.25 \\ 20.40 \\ 20.55 \\ 20.70 \\ 20.85 \\ 21.00 \\ 21.15 \\ 21.30 \\ 21.45 \\ 10.00 \\ 21.45 \\ 10.00 \\ 21.45 \\ 10.00 \\ 21.45 \\ 10.00 \\ 21.45 \\ 10.00 \\ 21.45 \\ 10.00 \\ 21.45 \\ 10.00 \\ 21.45 \\ 10.00 \\ 21.45 \\ 10.00 \\ 21.45 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ 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FINISH

NORMAL PROGRAM FINISH

END TIME (HR:MIN:SEC) = 10:43:31



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	City	of Albuquerque	Federal Emergency Management Agency a an effetial copy of a portion of the above returned flood map. It tratedict using F-MIT On-Line. This map does not reflect changes endments which may have been made subsequent to the date on the lock. For the latest product information about National Flood insurance
- 3/8"x6" ANCHOR BOLTS	FIRM MAP:	Prog	m flood maps check the FEMA Flood Map Store at www.msc.fema.gov
18" HDPĘ			M330010010411
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