CITY OF ALBUQUERQUE

Planning Department Brennon Williams, Director



Mayor Timothy M. Keller

August 14, 2020

Robert Fierro, P.E. Fierro & Company 6300 Montano Rd. NW Albuquerque, NM 87120

RE: Kraemer Fields 2801 Karsten Court SE Grading & Drainage Plan Engineer's Stamp Date: 07/31/20 Hydrology File: M14D012J

Dear Mr. Fierro:

PO Box 1293 Based upon the information provided in your submittal received 08/03/2020, the Grading & Drainage Plan **is not** approved for Grading Permit and Paving Permit. The following comments need to be addressed for approval of the above referenced project:

Albuquerque

NM 87103

1. First off this I could not find any replatting action by the DRB for current lot that the retention pond is on. So if that lot is going to be replatted, then this should have been submitted as a DRB site with a review fee of \$610. The fee that was paid was \$310 which is just for an admin site. If you think that this land has already been replatted, please provide a copy of the recorded plat.

Sheet 1. Please correct the proposed ABQ Sports Complex drainage to reflect the approved Grading & Drainage Plan with Engineer's Stamp date of 11/14/19. Approval letter issued 11/21/19. (M14D012I). See below. If this site drains are being modified, than the Grading & Drainage Plan for this project ((M14D012I) will have to be resubmitted for approval by Hydrology.



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	3. Sheet 1. The proposed parking lot will not be able to street drain to Bethel Road. There is currently no capacity in the roadway to handle the runoff. Therefore you will need to install a water block per COA Paving Detail No. 2426 at the driveway entrance.
	4. Sheet 1. The drainage from the proposed parking lot can be captured via storm inlet and connected to the proposed drainage system which outfalls to the newly shaped retention pond. This is what is indicated on Sheet 4.
	5. Sheet 1. Please show the existing pipes that are to be removed and label them as being removed.
	6. Sheet 1. Please provide all information on the proposed storm pipe system. (pipe invert elevations, MH top of rim elevations, inlet rim elevations, and for the pipe sizes and lengths.
PO Box 1293	7. Sheet 1. Provide hydraulic calculations per Article 6-10 of the DPM for this proposed storm drain system, calculated along the Energy Grade Line; include both the HGL and EGLs in the table.
	8. Sheet 1. Please provide a detail for the pipe outfall into the retention pond.
Albuquerque	9. Sheet 2. Please provide the WSE of the 100 year 10 day volume in all sections.
NM 87103	10. Sheet 2Please provide an approved City method to water proffing the retaining wall below the WSE of the 100 year 10 day volume.
www.cabq.gov	11. Sheet 4. Basin 300 needs drain into the proposed storm drain as outlined in comment #4. Please show this.
	12. A Bernalillo County Recorded Agreement and Covenant will be required for the retention pond per Article 6-15(C) of the DPM. This is needed since the retention pond is accepting public drainage. 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) regarding the routing and recording process for covenant. Please submit this prior to Hydrology's approval for this project.
	13. 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

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

924-3420) 14 days prior to any earth disturbance.

submitted to the Stormwater Quality Engineer (Doug Hughes, PE, jhughes@cabq.gov,

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14. Standard review fee of \$300 (since this is a DRB site) plus the remainder \$300 as outlined in Comment #1 for a total of \$600 will be required at the time of resubmittal.

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

Sincerely,

Renée C. Brissette

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

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov



City of Albuquerque

Planning Department Development & Building Services Division DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 11/2018)

Project Title:	ect Title: Building Permit #:	
DRB#:	=	
Legal Description:		
City Address:		
Applicant:		Contact:
Address:		
Phone#:	Fax#:	E-mail:
Owner:		Contact:
Address:		
Phone#:	Fax#:	E-mail:
TYPE OF SUBMITTAL: PLAT (_# OF LOTS)	_ RESIDENCE DRB SITE ADMIN SITE
IS THIS A RESUBMITTAL?:	Yes	No
DEPARTMENT: TRAFFIC/ TRAN	SPORTATION	HYDROLOGY/ DRAINAGE
Check all that Apply:		TYPE OF APPROVAL/ACCEPTANCE SOUGHT
TYPE OF SUBMITTAL:		BUILDING PERMIT APPROVAL
ENGINEER/ARCHITECT CERTIFIC	ATION	CERTIFICATE OF OCCUPANCY
PAD CERTIFICATION		PRELIMINARY PLAT APPROVAL
CONCEPTUAL G & D PLAN		SITE PLAN FOR SUB'D APPROVAL
GRADING PLAN		SITE PLAN FOR BLDG. PERMIT APPROVAL
DRAINAGE MASTER PLAN		FINAL PLAT APPROVAL
DRAINAGE REPORT		SIA/ RELEASE OF FINANCIAL GUARANTEE
FLOODPLAIN DEVELOPMENT PER	MIT APPLIC	FOUNDATION PERMIT APPROVAL
ELEVATION CERTIFICATE		GRADING PERMIT APPROVAL
CLOMR/LOMR		SO-19 APPROVAL
TRAFFIC CIRCULATION LAYOUT	(TCL)	PAVING PERMIT APPROVAL
TRAFFIC IMPACT STUDY (11S)		GRADING/ PAD CERTIFICATION
OTHER (SPECIFY)	<u>.</u>	WORK ORDER APPROVAL
PKE-DESIGN MEETING?		CLOMR/LOMR
		FLOODPLAIN DEVELOPMENT PERMIT
		OTHER (SPECIFY)
DATE SUBMITTED:	Bv:	

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED:

FEE PAID:



8	9		10				
<u>4-1</u>	KE (1) CO RE SH (2) INS (3) GR (4) CO (5) CO DE (6) CO	EYED NOTES: ONSTRUCT DRY STAT FER TO TYPICAL SE IEET C-2 AND STR STALL STORM DRAIN AVEL SURFACE. ONSTRUCT CONCRET ONSTRUCT DEPRESS ONSTRUCT DEPRESS ONSTRUCT RIPRAP (CK RETAINING WALLS. ECTIONS ON UCTURAL SHEETS. N INFRASTRUCTURE PER SHEET E MEDIAN CURB PER DETAIL XX ED LANDSCAPING. DN 2H:1V SLOPES OR STEEPER.	XXX. (X.		FIETTOR COMPANY ENGINEERING SURVEVING 6300 MONTANO RD. NW, SUITE C	PH (505) 352-8930 www.fierrocompany.com
					ENGINEEK'S SEAL	RT J. FIERRO NMETICO 205850 -31-2019 DNAL ENGINE	÷
					(0)	CENTER F 2	AEXICO



MEXIC

10

\2019\19020\CADD\SHEETS\19020-Lot 2A-1_C3_EX DRAINAGE.dwg 7/31/2020 8: 27: 35

300' LONG

C	NEW P	OND STA	GE STORA	GE
Depth	Ar	ea	Volume	Cum Volume
(ft)	(sq ft)	(ac)	(ac-ft)	(ac-ft)
4972	7436	0.171	0	0.000
4973	7974	0.183	0.177	0.177
4974	8533	0.196	0.189	0.366
4975	9110	0.209	0.203	0.569
4976	9705	0.223	0.216	0.785
4977	10318	0.237	0.230	1.015
4978	10948	0.251	0.244	1.259
4979	11597	0.266	0.259	1.518
4980	13366	0.307	0.287	1.804
4981	14080	0.323	0.315	2.119
4982	14812	0.340	0.332	2.451
4983	15563	0.357	0.349	2.799
4984	16331	0.375	0.366	3.166
4985	17117	0.393	0.384	3.549
4986	17921	0.411	0.402	3.952

LOT

BASIN (102)

<u>∕</u>−EX.

100

24" RCP

H MANUFACTURING WEST, INC

PROPOSED 100_{YR}-10_{DAY} VOLUME INTO NEW POND $= V_{\text{BASIN 100}} + V_{\text{BASIN 101}} + V_{\text{BASIN 102}} + V_{\text{BASIN 103}} + V_{\text{BASIN 108}} + V_{\text{BASIN 202}} + V_{\text{BASIN 300}} + V_{\text{BASIN 301}} = 0.226 + 0.560 + 1.452 + 0.986 + 0.211 + 0.589 + 0.580 + 0.061$ =4.665 AC-FT

Please note volume from $V_{Basin 202}$ was obtained from Hydrology File No. M14D012I.

-LOT 2B SEE HYDROLOGY FILE NO: M14D012I

BASIN (103)

• • • \longrightarrow SWALE (101) (201)

LEGEND

-5704____ EXISTING MINOR CONTOUR - PROPOSED MAJOR CONTOUR - PROPOSED MINOR CONTOUR SURFACE FLOW DIRECTION ROOF FLOW DIRECTION PROPOSED BASIN LINE EXISTING BASIN LINE EXISTING BASIN PROPOSED BASIN

FIRST FLUSH PONDING LIMITS

2A-1.

Hydrology file No. M14D012I approved a new storm pipe penetrating and discharging into the existing pond. This storm drain will need to be modified to drain into the new pond. This new pipe connection is not shown in the approved plan under file no. M13D012I and only shown schematically on this plan.

Methodology

Hydrologic procedures presented in the Hydrology Section of the DMP, Section 22.2, revised April 7, 1993 were followed. Existing Condition

The existing site is located on Lot 2A-1 of the Broadway Industrial Center. The Broadway Industrial Center Master Plan allows Lots 2B, 2C, and 2D to discharge into the regional detention pond located on this site, which is designed to retain the 100-year, 10-day storm. The Master Plan was prepared by Mark Goodwin & Associates and is dated 9-24-1997.

There are two existing pipes that outfall into said regional pond: 1) 24" RCP penetrating the pond from the west, and 2) 24" RCP pipe penetrating the pond from the north as shown on Sheet 3. The following basins contribute runoff to said regional pond: Basin 100, 101, 102, 103, 104, 106, and 108 with a combined Volume_{100yr-10day}=3.290 ac-ft. The total pond capacity is 3.977 ac-ft. Basin 107 discharges to the adjacent lot to the West and Lace Road SE.

Proposed Condition

Improvements include 70 plus parking spaces and a new pond to replace the existing. The total proposed 100-year, 10day volume for the new pond is 4.665 ac-ft and the pond is designed with a volume of 3.95 ac-ft. There is a little less than a foot of freeboard. The two existing pipes will need to extend to the new pond. The proposed pipe layout of the pipe extensions are shown semantically on this sheet. The first flush volume was not calculated under this analysis. Hydrologic analysis are included on Sheet 3 and this sheet.

Conclusion

The new infrastructure shown on this G&D is to support the proposed improvements as shown under Hydrology File No. M13D012!. Its all one of the same project, but on different lots. The owner is considering consolidating Lot 2A-1 and Lot 2B. However, the hydrology and hydraulic analysis have been prepared to meet the current design criteria.

19020

RJF

RJS

RJF

JULY 2020

PROJECT NO:

DESIGNED BY:

DRAWN BY:

CHECKED BY:

SHEET TITLE