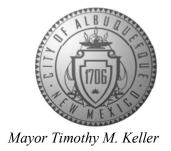
CITY OF ALBUQUERQUE

Planning Department Alan Varela, Director



July 12, 2024

Verlyn Miller, P.E. Miller Engineering Consultants, Inc 3500 Comanche NE Bldg. F Albuquerque, NM 87107

RE: AFD Fire Station 4

Grading and Drainage Plans Engineer's Stamp Date: no stamp

Hydrology File: H14D120

Dear Mr. Miller:

PO Box 1293

Based upon the information provided in your submittal received 06/28/2024, the Grading & Drainage Plan is approved for action by the Development Facilitation Team (DFT) on Site Plan for Building Permit.

PRIOR TO BUILDING PERMIT:

Albuquerque

NM 87103

www.cabq.gov

1. Please submit a more detailed Grading & Drainage Plan to Hydrology for review and approval. This digital (.pdf) is emailed to PLNDRS@cabq.gov along with the Drainage Transportation Information Sheet.

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

If you have any questions, please contact me at 924-3314 or amontoya@cabq.gov.

Sincerely,

Anthony Montoya, Jr., P.E.

anth Mars

Senior Engineer, Hydrology

Planning Department, Development Review Services



City of Albuquerque Planning Department

Planning Department
Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (DTIS)

Project Title:		Hydrology File #						
Legal Description:								
City Address, UPC, OR Parcel:								
Applicant/Agent:		Contact:						
		Phone:						
Email:								
Applicant/Owner:		Contact:						
		Phone:						
Email:								
(Please note that a DFT SITE is on	e that needs Site Plan A	approval & ADMIN SITE is one that does not need it.)						
TYPE OF DEVELOPMENT:	PLAT (#of lots)	RESIDENCE						
	DFT SITE	ADMIN SITE						
RE-SUBMITTAL: YES	NO							
	110							
DEPARTMENT: TRANS	SPORTATION	HYDROLOGY/DRAINAGE						
Check all that apply under Both	the Type of Submittal	and the Type of Approval Sought:						
TYPE OF SUBMITTAL:		TYPE OF APPROVAL SOUGHT:						
ENGINEER/ARCHITECT CERTIFICATION		BUILDING PERMIT APPROVAL						
PAD CERTIFICATION		CERTIFICATE OF OCCUPANCY CONCEPTUAL TCL DFT APPROVAL PRELIMINARY PLAT APPROVAL FINAL PLAT APPROVAL						
CONCEPTUAL G&D PLAN								
GRADING & DRAINAGE PL	AN							
DRAINAGE REPORT								
DRAINAGE MASTER PLAN		SITE PLAN FOR BLDG PERMIT DFT						
CLOMR/LOMR		APPROVAL						
TRAFFIC CIRCULATION LAYOUT (TCL) ADMINISTRATIVE TRAFFIC CIRCULATION LAYOUT FOR DFT APPROVAL TRAFFIC IMPACT STUDY (TIS) STREET LIGHT LAYOUT		SIA/RELEASE OF FINANCIAL GUARANTEE						
		FOUNDATION PERMIT APPROVAL						
		GRADING PERMIT APPROVAL SO-19 APPROVAL PAVING PERMIT APPROVAL						
						OTHER (SPECIFY)		GRADING PAD CERTIFICATION
						official (of Eon 1)		WORK ORDER APPROVAL
		CLOMR/LOMR						
		OTHER (SPECIFY)						
DATE SUBMITTED:								

REV. 09/13/23

DRAINAGE REPORT

SITE LOCATION

The existing site is an approximate 4.25-acre piece of land located west of 3rd street and south of 1-40 and Indian School in Albuquerque, New Mexico. The site can be accessed via 3rd Street. (see vicinity man this sheet)

EXISTING CONDITIONS

The existing site is estimated at 4.25 acres and is currently developed as a city park and existing fire station. The site is relatively flat with a very mild slope to the south and west. The site does not its within a 100-year EEMA floodplain However, "3" Street and McEnight both have a FEMA designated Zone AO floodplain as indicated on the FEMA panel on this sheet. Discharge from the site must be limited to existing conditions as indicated in the Mid-Valley DMP.

PROPOSED CONDITIONS

The proposed project will comist of a new fire station building, a new driveway entrance from 39" Street and parking lot areas on the west side of the site. The site will also have several laterables one and all new form the site of the site. The site will also have several laterables of the property of the site. The site of the property of the site of the property. The first of the site of the property of the site of the property of 305 arees that will be developed as the new fire station site and will be routed to the new of 305 arees that will be developed as the new fire station site and will be routed to the new fire station site and will be routed to the new fire station site and will be routed to the new fire station site and will be routed to the new fire station site and will be routed to the new fire station development and what will free discharge from the site.

Storm water will be routed to the new detention pond via surface flow and underground storm sewer pipes that vial Collect roof drainage from the building and the south parking lot area. A 12° storm sewer outfall pipe has been added to the pond so that the pond can slowly discharge into the existing storm sewer outfall pipe has been added to the pond so that the pond can slowly discharge into the existing storm sewer system in McKnight at a controlled rate per the Mid-valley DMP. An orifice plate will be added to the inlet of the 12° storm drainpipe as needed to control the release rate from the pond.

CONCLUSIONS

When fully developed as indicated on the grading and drainage plan, runoff from the new fire station site will discharge to a water harvest feature on the northwest side of the site. Basin A will be routed through the proposed detention pond. Runoff from the detention pond discharge to the McKnight storm drain system at a controlled rate per the Mid-valley DMP. Basin B will free discharge from the site as it does under existing conditions.

HYDROLOGY CALCULATIONS

Precipita	tion Zone 2	- 100-year :	Storm	P(360) =	2.29	in	P(1440):	2.59	in
	Basin	L	and Treatr	ment Factor	s				
Basin	Area	Α	В	С	D	Ew	V(100-6)	V(100-24)	Q(100
	(Ac)		(Acres	i)		(in)	(af)	(af)	(cfs)
Existing	Conditions								
Site	4.250	0.000	2.960	0.000	1.290	1.264	0.448	0.49	12.58
Total	4.250							0.49	12.58
Propose	d Conditions								
A	3.050	0.000	0.000	1.820	1.230	1.55	0.395	0.44	10.89
В	1.200	0.000	0.000	0.320	0.880	1.98	0.198	0.23	4.80
Total	4.250							0.66	15.68

WATER HARVEST AREA

		WHA #1	
Pond Rating Table			
Side Sk	ре		
Elev.	Area	Volume	Cum Volume
(ft)	(sq ft)	(cf)	(cf)
61	3766	0	0
62	5127	4446.500	4446.500
63	6645	5886.000	10332.500

STORM WATER QUALITY CALCULATIONS

SWQV = (0.42"/12 * 91,511 SF) = 3,217 CUBIC FEET

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City of Albuquerque
Planning Department
Development Review Services
HYDROLOGY SECTION
PRELIMINARY APPROVED

PRELIMINARY APPROVED

oTrans# H14D120

THESE PLANS AND/OR REPORT ARE CONCEPTUAL ONLY. MORE INFORMATION MAY BE NEEDED IN THEM AND SUBMITTED TO HYDROLOGY FOR BUILDING PERMIT APPROVAL.

GENERAL NOTES:

- EXISTING TOPOGRAPHIC SURVEY PERFORMED AND COMPILED BY PRECISION SURVEYS, INC., ALBUQUERQUE, NEW MEXICO JANUARY, 2024. MILLER PIGNIBERERING CONSULTANTS HAS UNDERTAKEN NO FIELD VERIFICATION OF THIS INFORMATION.
- PROJECT BENCHMARK IS A NATIONAL GEODETIC SURVEY (NGS) A STAINLESS STEEL ROD SET BENEATH A 5 1/2" NACESS COVER, STAMPED 7A-435, 1984. IN THE NORTHWEST AND STAINLESS STAINLESS OF THE STAINLESS OF THE
- THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SEDIMENT AND EROSION CONTROL DEVICES DURING THE CONSTRUCTION PHASE.
- CONTRACTOR SHALL OBTAIN A GRADING PERMIT FROM THE CITY OF ALBUQUERQUE, PRIOR TO ANY GRADING OR CONSTRUCTION.
- TWO WORKING DAYS PRIOR TO ANY EXCAVATION CONTRACTOR MUST CONTACT LINE LOCATING SERVICE 260-1990 FOR LOCATION OF EXISTING UTILITIES.
- 5. ALL EMBANKMENTS SHALL BE PLACED AND COMPACTED IN LIFTS OF MAXIMUM OF 8". THE EMBANKMENTS SHALL BE WETTED AND COMPACTED TO 95% OPTIMUM DENSITY PER ASTM D1557 AND 95% UNDER ALL STRUCTURES INCLUDING DRIVEWAYS AND PARKING LOTS.
- THE CONTRACTOR SHALL FIELD VERIFY LOCATION AND SIZE OF ALL UTILITIES PRIOR TO CONSTRUCTION.
- 7. ALL WORK PERFORMED SHALL COMPLY WITH THE REQUIREMENTS OF THE CITY OF ALBUQUERQUE STORM DRAINAGE REQUILATIONS. ALL WORK PERFORMED SHALL COMPLY WITH THE REQUIREMENTS OF THE CITY OF ALBUQUERQUE "GRADIOS AND DRAINAGE DESIGN REQUIREMENTS AND POLICIES FOR LAND DEVELOPMENT."
- 8. THE OWNER, CONTRACTOR AND/OR BUILDER SHALL COMPLY WITH ALL APPROPRIATE LOCAL, STATE AND FEDERAL REGULATIONS AND REQUIREMENTS.
- 9. THE CONTRACTOR SHALL TAKE ALL APPROPRIATE AND REASONABLE MEASURES OF PREVENT SEDIMING ON THE DESIRED OF THE PROPRIES OF THE DESIRED OF THE

- 11. THE CONTRACTOR SHALL TAKE ALL APPROPRIATE MEASURES TO PREVENT THE MOVEMENT OF CONSTRUCTION RELATED TO THE SITE BY WIND, STORM FLOW OR MAY OTHER METHOD EXCLUDING THE INTENTIONAL, LEGAL TRANSPORTATION OF SAME IN A MANNER ACCEPTABLE BY
- THE CONTRACTOR SHALL NOT DISTURB AREAS OUTSIDE THE AREAS SHOWN AS "SLOPE LIMITS" ON THE GRADING AND DRAINAGE PLAN.
- 13. SEE ARCHITECTURAL DRAWINGS FOR SIDEWALK AND HANDICAPPED RAMPS, DETAILS AROUND THE BUILDING.
- 14. THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER FOR CLARIFICATION IF THERE ARE ANY SPOT ELEVATIONS ON THE GRADING AND DRAINAGE PLAN WHICH APPEAR TO BE AMBIGUOUS OR DO NOT MEET THE INTENT OF THE GRADING AND DRAINAGE PLAN.
- 15. THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER FOR CLARFICATION IF THERE ARE SIDEWAKES OR CONCRETE FLATMORK WHICH DOES NOT MEET ADA ACCESSIBILITY REQUIREMENTS. ALL SIDEWAKES SHALL HAVE A MAXIMUM CROSS SLOPE OF 20 ZM, ALL SIDEWAKES SHALL HAVE A MAXIMUM CONTRACTOR 20 ZM, AND CANDER STALL HAVE A MAXIMUM CONTROLLAR SLOPE OF 50 ZM, AND ALL RAMPS SHALL HAVE A MAXIMUM CONTROLLAR SLOPE OF 50 ZM, AND ALL RAMPS SHALL HAVE A MAXIMUM CONTROLLAR SLOPE OF 15.1.
- 16. ALL SIDEWALKS AND CONCRETE FLATWORK SHALL HAVE A MINIMUM OF 0.5% SLOPE. CONTRACTOR SHALL CONTACT PROJECT ENGINEER IF THERE ARE SIDEWALKS OR CONCRETE FLATWORK WHICH DO NOT MEET THIS REQUIREMENT.
- THE CONTRACTOR SHALL SUBMIT MATERIAL SUBMITTALS, CUT SHEETS AND SHOP DRAWINGS FOR ALL CIVIL RELATED ITEMS FOR REVIEW PRIOR TO CONSTRUCTION.
- 18. THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH 2019 EDITION OF THE NEW MEXICO STATE DEPARTMENT IN ACCORDANCE WITH 2019 EDITION OF THE NEW MEXICO STATE DEPARTMENT AND BRIDGE CONSTRUCTION (GRAY BOOK). ALL UTLITY WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN PUBLIC WORKS ASSOCIATION, NEW MEXICO CHAPTER, STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- ALL EXISTING MANHOLES, VALVES AND METERS SHALL BE ADJUSTED TO NEW FINISH GRADE.
- 20. THE CONTRACTOR SHALL SUBMIT A SEED MIX DESIGN TO THE OWNER FOR REVIEW AND APPROVAL PRIOR TO STARTING THE SEEDING ON THE PROJECT. THE SEED MIX DESIGN SHALL BE A SEED MIX RECOMMENDED BY MRCS FIELD OFFICE REPRESENTATIVE APPROPRIATE FOR PROJECT LOCATION.

ALL DISTURBED AREAS, NOT ADDRESSED BY ARCHITECTURAL LANDSCAPE PLAN WITH SLOPES OF LESS THAN \$1 SHALL RECEIVE CLASS. "A" SEEDING, ANY SLOPES THAT ARE 3:1 OR STEEPER SLOPES SHALL RECEIVE STEEP SLOPE SEEDING, THE STEEP SLOPE SEEDING SHALL OWNSTOR OF SEEDING IN CONJUNCTION WITH A 100% COCCANY THERE BELDE REGION BRANKET (NORTH AMERICAN GREEN 0125) OR APPROVED

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	CITY OF ALBUQUER			
	AFD FIRE STATION 301 MCKNIGHT AVENUE N.W. ALBUQUERQUE, MM 87123	I 4		
wing Title				
	HYDROLOGY PLAN			
ign Review Committee	City Engineer Approval		Mo./DayYr.	Mo./DayYr.
		-	7/10/18	

Design Review Committee

City Engineer Approval

Design Review Committee

City Engineer Approval

Sheet

City Project No.

Sheet

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FLOOD ZONE MAP: 35001C0332G

National Flood Hazard Layer FIRMette

FEMA

SITE PLAN

2

Midden, Base Floor II James N. 200 Wild DF Cor Dopple In

Descriptions with the Arms (Char
 Minor Surface Secretor
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