CITY OF ALBUQUERQUE

Planning Department David Campbell, Director



Mayor Timothy M. Keller

August 9, 2018

Fred C. Arfman, P.E. Isaacson & Arfman, P.A. 128 Monroe St. N.E Albuquerque, NM, 87108

RE: Hope Plaza, Lots 7 & 8 Hope in the Desert Episcopal Church Conceptual Grading and Drainage Plan Engineer's Stamp Date: 07/31/18 Hydrology File: C20D064A

Dear Mr. Arfman:

PO Box 1293 Based upon the information provided in your submittal received 08/01/18, the Conceptual Grading and Drainage Plan is not approved for Building Permit and for action by the DRB on the Final Plat. The following comments need to be addressed for approval of the above Albuquerque referenced project: 1. If this you want both approvals, then please resubmit with a Grading and Drainage Plan with Engineer's Stamp & signature. NM 87103 2. Please change the existing flow area as type C instead of type B. www.cabq.gov 3. Please fix the date of the approved amended Preliminary Grading Plan (Rev 2). 2014 was the last date that we have for any activity on this property, not May 1, 2018. 4. Please pay the Fee in Lieu must be paid for the required first flush volume of **201** cubic feet. The Fee in Lieu payment (Amount = $201 \text{ CF x } \frac{6}{\text{CF}} = \frac{1,206.00}{1,206.00}$) for the required first flush volume. This will need to be paid prior to approval of the Building Permit. 5. Please provide the calculation of the Q_{100} for the shallow sediment control basin and the calculations for the five 6 inch pipes. 6. Per DPM Ch. 22.5.B, grading and construction of retaining walls at or near the property line must demonstrate that the adjacent property is not damaged or its use constrained. Any such encroachment by the wall or grading must be accompanied by written

permission of both landowners. So please insure that the footer does not encroach the

adjacent property.

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7. Please add the property line to the retaining wall detail along with the footer.

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

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W.	MILLER	

City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Hope Plaza Project Title: Lots 7 and 8	Building Pe	ermit #:	Hydrology File #: C20		
			Work Order#:		
Legal Description: A Portion of Tract					
City Address: 8700 Alameda Blvd. NW					
And the second statement DA			0		
Applicant: Isaacson & Arfman, PA			Contac	t: Fred C. Arfman of Bryan J. Bobrick	
Address: <u>128 Monroe Street NE - Albuqu</u>					
Phone#: (505) 268-8828	Fax#:		1.1.2.4.4.4.4	freda@iacivil.com	
Other Contact:				r bryanb@iacivil.com t:	
Address:					
Phone#:			E-mail:		
TYPE OF DEVELOPMENT: <u>X</u> PL	ATRES	IDENCE	DRB SITE	ADMIN SITE	
Check all that Apply:					
DEPARTMENT:		TYPE OF	F APPROVAL/ACC	EPTANCE SOUGHT:	
X HYDROLOGY/DRAINAGE			LDING PERMIT API		
TRAFFIC/ TRANSPORTATION	CERTIFICATE OF OCCUPANCY				
TYPE OF SUBMITTAL:					
ENGINEER/ARCHITECT CERTIFICA	PRELIMINARY PLAT APPROVAL				
PAD CERTIFICATION	SITE PLAN FOR SUB'D APPROVAL				
X CONCEPTUAL G & D PLAN		SITE PLAN FOR BLDG. PERMIT APPROVAL			
GRADING PLAN		X FINAL PLAT APPROVAL			
DRAINAGE REPORT					
DRAINAGE MASTER PLAN		SIA/	RELEASE OF FINA	NCIAL GUARANTEE	
FLOODPLAIN DEVELOPMENT PERM	FOUNDATION PERMIT APPROVAL				
ELEVATION CERTIFICATE			DING PERMIT API	PROVAL	
CLOMR/LOMR			19 APPROVAL		
TRAFFIC CIRCULATION LAYOUT (PAVING PERMIT APPROVAL				
TRAFFIC IMPACT STUDY (TIS)			DING/ PAD CERTI		
STREET LIGHT LAYOUT			RK ORDER APPROVA	AL.	
OTHER (SPECIFY)			MR/LOMR		
PRE-DESIGN MEETING?		and the second se	ODPLAIN DEVELO		
IS THIS A RESUBMITTAL?: YesX	No	OTH	IER (SPECIFY)		
DATE SUBMITTED: August 1, 2018	Bu Fra	ed C. Arfman			

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED:

FEE PAID:

CALCULATIONS: 2274 Hope Highlands Residential Lots 7 and 8 : July 30, 2018								
Based on Drainage Design Criteria for City of Albuquerque Section 22.2, DPM, Vol 2, dated Jan., 1993								
				ON-SIT	Ξ			
AREA OF SITE	Ξ:			11844	SF	=	0.27	
				100-year, 6-hour				
PREVIOUS D	EVEL	OPED FLOWS):	DEVELOPED FL	OWS:			EXCESS PRECIP:
		Treatment SF	%	-		Treatment SF	%	Precip. Zone 3
Area A	=	0	0%	Area A	=	0	0%	$E_{\rm A} = 0.66$
Area B	—	11844.0	100%	Area B	—	2369	20%	$E_{\rm B} = 0.92$
Area C	=	0.0	0%	Area C	=	2369	20%	$E_{\rm C} = 1.29$
Area D	=	0.0	0%	Area D	=	7106	60%	$E_{\rm D} = 2.36$
Total Area	=	11843.964	100%	Total Area	=	11843.964	100%	1
On-Site Weighte	ed Exc	ess Precipitation	(100-)	(ear, 6-Hour Storm)				
Ų		Weighted E =		$\underline{E}_A A_A + \underline{E}_B A_B + \underline{E}_C$	$A_{C} + E$	DAD		
				$A_A + A_B + A_B$				
Historic E	_	0.92	in	Developed E	_	1,86	in]
Historic V_{360} =908CFDeveloped V_{360} =1834CFOn-Site Peak Discharge Rate: $Qp - Q_{pA}A_A + Q_{pB}A_B + Q_{pC}A_C + Q_{pD}A_D / 43,560$								
For Precipitation	1 Zone			0		2.45		
Q _{pA}	_	1,87		Q _{pC}	_	3.45		
Q _{pB}	_	2.60		QpD	_	5.02		1
Historic Q _p	=	0.7	CFS	Developed Q _p	=	1.1	CFS	
DAGNINO	01			DECODIDATION:				
	01	5575	С.	DESCRIPTION	NOR			TO CHURCH PROPERTY
Area of basin flor The following cal		5535 ns are based on T	SF Freatme	nt areas as shown in t	– ahle to	0.13 the right		FREATMENT
The following ed.	ie anario			ess Precipitation (see		-	A -	0%
		Weighted E	=	I.11 i			B =	50%
	•	_	e of Ru	noff (see formula abov			C =	50%
$V_{360} = 510 \text{ CF}$ D = 0%								
		Sub-basin Peak I	Discharş	ge Rate: (see formula a	bove)	[]	FIRST F	FLUSH VOL.
		Qp	_	0.4	cſs			0 CF
PER THE APPROVED AMENDED PRELIMINARY GRADING PLAN (REVISION 2) WITH REVISIONS								

DATED MAY 01, 2018: "A SHALLOW SEDIMENT CONTROL BASIN WILL BE CONSTRUCTED ON THE NORTH SIDE OF THE

PROPERTY WALL BEFORE PASSING THE MINOR OFFSITE BASIN THROUGH A NEW WALL OPENING INTO THE CHURCH PROPERTY (SEE KEYED NOTE 5)"

GENERAL NOTES

- FINAL GRADES SHOWN REPRESENT TOP OF FINISH MATERIAL (I.E. TOP OF CONCRETE, TOP OF CONCRETE BUILDING PAD, TOP OF PAVEMENT MATERIAL, TOP OF LANDSCAPING MATERIAL, ETC.). CONTRACTOR SHALL GRADE, COMPACT SUBGRADE AND DETERMINE EARTHWORK ESTIMATES BASED ON ELEVATIONS SHOWN MINUS FINISH MATERIAL THICKNESSES.
- CONTRACTOR SHALL CONTACT NM-811 FOR UTILITY LINE SPOTS TWO WORKING DAYS PRIOR TO CONDUCTING SITE FIELD WORK. CONTRACTOR SHALL FIELD VERIFY AND LOCATE ALL UTILITIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION.
- C. THE ENVIRONMENTAL PROTECTION AGENCY (EPA) AND BERNALILLO COUNTY MAY REQUIRE AN EROSION AND SEDIMENT CONTROL (ESC) PERMIT FOR PROJECTS WHERE CONSTRUCTION ACTIVITIES MEET THE EPA THRESHOLD. IF REQUIRED, CONTRACTOR SHALL OBTAIN AND PROVIDE.
- D. ALL COBBLE EROSION PROTECTION TO BE 3" AVG. DIA. (2"-4") ANGULAR FACED ROCK PLACED OVER GEOTEX C501 NON-WOVEN GEOTEXTILE (O.E.).
- . ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE RESEEDED WITH NATIVE GRASS PER C.O.A. SPECIFICATIONS SECTION 1012 (FOR SANDY SOILS).
- ENGINEER RECOMMENDS THAT OWNER MAINTAIN EROSION PROTECTION ELEMENTS. ENGINEER RECOMMENDS THAT OWNER INSPECT SITE YEARLY AND AFTER EACH RAINFALL TO IDENTIFY NEW AREAS OF EROSION AND INSTALL ADDITIONAL EROSION PROTECTION AS NEEDED BASED ON ACTUAL OCCURRENCES.

STORMWATER QUALITY

STORMWATER QUALITY CONTROL MEASURES ARE REQUIRED TO PROVIDE MANAGEMENT OF 'FIRST FLUSH'. COA HYDROLOGY CURRENTLY HAS THREE CATEGORIES RELATING TO STORMWATER QUALITY VOLUME REQUIREMENTS:

NEW CONSTRUCTION: STORMWATER QUALITY VOLUME BASED ON THE 90TH PERCENTILE STORM EVENT OR 0.34" [0.44" LESS 0.1" FOR INITIAL ABSTRACTION] OF STORMWATER WHICH DISCHARGES DIRECTLY TO A PUBLIC STORM DRAINAGE SYSTEM).

THE ESTIMATED IMPERVIOUS AREA FOR THIS PROPERTY IS CALCULATED AS 60% OF TOTAL AREA. (0.60 * 11,844) = 7,107

TOTAL STORMWATER QUALITY VOLUME = 0.34" X 7107 SF = 201 CF.

PRIOR TO BUILDING PERMIT APPROVAL, A "PAYMENT IN-LIEU FOR STORMWATER QUALITY VOLUME REQUIREMENT" TREASURY DEPOSIT SLIP WILL BE PROVIDED BY C.O.A. HYDROLOGY. THIS WILL BE BASED ON THE PORTION OF FIRST FLUSH VOLUME (@ RESIDENTAL RATE OF \$6.00 PER CF) THAT IS NOT RETAINED ON-SITE. A COPY OF THE PAID RECEIPT WILL BE REQUIRED PRIOR TO BUILDING PERMIT APPROVAL.

201 CF X \$6.00 / CF = \$1,206.00 (TOTAL FOR BOTH LOTS).

PROJECT SCOPE

PROPERTY: THE SITE IS AN UNDEVELOPED PORTION OF AN EXISTING CHURCH PROPERTY LOCATED WITHIN C.O.A. VICINITY MAP C-20. THE SITE IS BOUND TO THE EAST AND NORTH BY UNDEVELOPED PROPERTY, TO THE WEST BY HOPE IN THE DESERT EPISCOPAL CHURCH (SAME OWNER), AND TO THE SOUTH BY SIGNAL AVE. NE.

PROPOSED IMPROVEMENTS: TWO RESIDENTIAL PROPERTIES.

LEGAL: LOTS 7 AND 8, HOPE PLAZA (PREVIOUSLY A PORTION OF TRACT B-1-A, HOPE PLAZA) CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

BENCHMARK: VERTICAL DATUM IS BASED UPON THE ALBUQUERQUE CONTROL SURVEY MONUMENT "7-C19", ELEVATION = 5485.723 FEET (NAVD 1988).

OFF-SITE: NO OFF-SITE DRAINAGE AFFECTS THIS PROPERTY. A MINOR BASIN WILL CONTINUE TO BE ROUTED THROUGH THE CHURCH PROPERTY.

FLOOD HAZARD: PER BERNALILLO COUNTY FIRM MAP #C5001, THE SITE IS LOCATED WITHIN FLOODZONE 'X' DESIGNATED AS AREAS DETERMINED TO BE OUTSIDE 500-YEAR FLOODPLAIN.

DRAINAGE PLAN CONCEPT:

PER THE APPROVED AMENDED PRELIMINARY GRADING PLAN (REVISION 2) WITH REVISIONS DATED MAY 01, 2018:

"THE PROPOSED RESIDENTIAL SITE DRAINAGE WILL FREE DISCHARGE TO SIGNAL AVE. VIA THE SITE DRIVES. BASED ON THE 100-YEAR 5-HOUR CALCULATIONS, THE DEVELOPED SITE WILL GENERATE APPROXIMATELY 1.1. CFS (AN INCREASE OF 0.4 CFS)." SEE CALCULATIONS THIS SHEET.

RETAINING WALL

	ADDITIO (PRIVA
	TRW =
	HIGH SI
RADE	
	k i

ONAL HEIGHT ABOVE RETAINING ACY YARD WALL)

= TOP OF RETAINING WALL 6" ABOVE HIGH SIDE GRADE)

DE GRADE

