CITY OF ALBUQUERQUE

PLANNING DEPARTMENT - Development Review Services



Richard J. Berry, Mayor

December 22, 2015

Åsa M. Nilson-Webber, P.E. Isaacson & Arfman, P.A. 128 Monroe Street N.E. Albuquerque, NM 87108

RE: Generations at West Mesa

Grading & Drainage Plan

Engineer's Stamp Date 12-22-2015 (File: K11D084)

Dear Mrs. Weber:

PO Box 1293

Albuquerque

Based upon the information provided in your submittal received 12-22-15, the above referenced plan is approved for Site Plan for Building Permit

Prior to Building Permit approval, the following comments must be addressed:

- 1. Since you are opting to discharge into 57th Street, provide street capacity calculations.
- 2. Show retaining wall locations, with T.O.W. and B.O.W. elevations.
- 3. Note any existing walls along boundaries
- 4. North side of site: provide SW culvert beyond alley gutter
- 5. Along East and West side of site, provide positive flow path. Provide a section and adjust sidewalk to allow for flow path.
- 6. Provide a curb cut so swale along eastern edge discharges to driveway
- New Mexico 87103 7. Call out inlet on east side of driveway
 - 8. South side of site: provide SW culvert so discharge enters first flush pond

www.cabq.gov If you have any questions, you can contact me at 924-3695.

Rita Harmon, P.E.

Sincerely

Senior Engineer, Planning Dept. Development Review Services

Orig Drainage file c pdf Addressee via Email

K19D084_SPBP_Appr.doc

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COA STAFF.

ELECTRONIC SUBMITTAL RECEIVED'

City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

Project Title: Generations at West Mesa	uilding Permit #:		City Drainage #:	K11/ ()
DRB#: EPC#:	W	ork Order#		
Legal Description: Tract C-8-B, Town of Atrisco Grant, Airport Unit AND Lots 5 &	6, Torres Addition AN	ND Vacated	d Portion of Esperan	za Drive NW
City Address: 57th Street & Avalon Road NW				
Engineering Firm: Isaacson & Arfman, P.A.	Co	ontact: Fr	ed C. Arfman	
Address: 128 Monroe Street NE - Albuquerque, NM 87108				
Phone#: (505) 268-8828 Fax#:	E-	-mail: frec	da@iacivil.com	
Owner: City of Albuquerque - Department of Family & Community Se	ervices Co	ontact: Do	oug Chaplin	
Address: P.O. Box 1293 - Albuquerque, NM 87103		ما ما اما اما اما اما اما اما اما اما ا		
Phone#: (505) 768-2860 Fax#:	E-	-mail: <u>CC</u>	naplin@cabq.gov	
Architect: Dekker/Perich/Sabatini		ontact: Mi	riam Hicks	
Address: 7601 Jefferson Street NE, Suite 100 - Albuquerque, NM 87			iomb@dpodooiar	
Phone#: (505) 761-9700 Fax#:	E-	-mail: <u>milit</u>	iamh@dpsdesigr	ı.org
Other Contact: Surv-Tek, Inc.	Co	ontact: Ru	uss P. Hugg	
Address:	· <u>-</u> · ·			
Phone#: (505) 897-3366 Fax#:	E-	-mail:		
X HYDROLOGY/ DRAINAGE TRAFFIC/ TRANSPORTATION MS4/ EROSION & SEDIMENT CONTROL TYPE OF SUBMITTAL: ENGINEER ARCHITECT CERTIFICATION CONCEPTUAL G & D PLAN X GRADING PLAN DRAINAGE MASTER PLAN DRAINAGE REPORT CLOMR/LOMR TRAFFIC CIRCULATION LAYOUT (TCL) TRAFFIC IMPACT STUDY (TIS)	FINAL PLAT AF SIA/ RELEASE C FOUNDATION I GRADING PERM	MIT APPRO OF OCCUP PLAT APPROVAL OF FINANC PERMIT A MIT APPRO AL IT APPROV CERTIFIC	PROVAL PROVAL PROVAL ERMIT APPROVAL PPROVAL OVAL	
OTHER (SPECIFY)	PRE-DESIGN MEE			
IS THIS A RESUBMITTAL?: X Yes No DATE SUBMITTED: December 22, 2015 By: Fred C. Arfr	กลท			
DATE SUBMITTED: December 22, 2015 By: Fred C. Arfr			·	



Bryan Bobrick

bryanb@iacivil.com>

Consulting Engineering Associates

Hydrology Submittal - Generations at West Mesa

1 message

Bryan Bobrick <bryanb@iacivil.com>

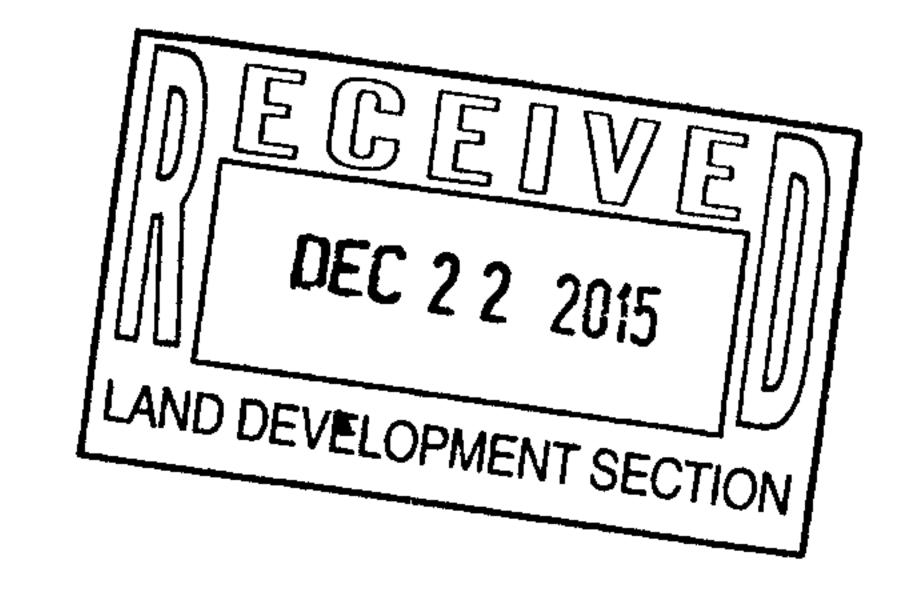
Tue, Dec 22, 2015 at 2:56 PM

To: COA Planning Development Review Services <PLNDRS@cabq.gov>

Cc: Ruth Lozano <ruthl@iacivil.com>, Fred Arfman <freda@iacivil.com>, Åsa Weber <asaw@iacivil.com>

Bryan Bobrick Isaacson & Arfman, P.A. 128 Monroe N.E. Albuquerque, NM 87108 (505) 268-8828



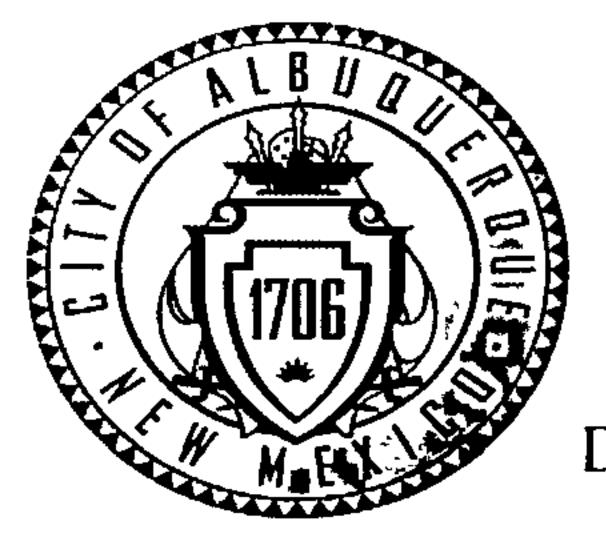


Based on Drainag	e Desi	gii Cintona ioi C	10) 0111	Touquerque Decitori	22.2, 171 1	71, 7 01 <u>2</u> , aatea	<i></i>	, , , , , , , , , , , , , , , , , , ,
				ON-SIT	ΓΕ			
AREA OF SITE:				159019	nent "NM	=	3.7	
				100-year, 6-hour				
HISTORIC FLO	WS:			DEVELOPED FL	OWS:			EXCESS PRECIP:
		Treatment SF	%	7		Treatment SF	%	Precip. Zone
Area A	=	0	0%	Area A	=	0	0%	$E_A = 0.44$
Area B	=	0	0%	Area B	=	28623	18%	$E_{\rm B} = 0.67$
Area C	=	159018.8287	100%	Area C	=	31804	20%	$E_{\rm C} = 0.99$
Area D	=	0	0%	Area D	=	98592	62%	$E_{D} = 1.97$
Total Area	=	159018.8287	100%	Total Area	=	159018.8287	100%	
On-Site Weighted	Exces	s Precipitation (ar, 6-Hour Storm)			100,0	
	Exces	s Precipitation (Weighted E =	100-Ye	ar, 6-Hour Storm) $E_{A}A_{A} + E_{B}A_{B} + E_{C}A_{C}$ $A_{A} + A_{B} + A_{C}$	$A_C + E_D A$	T)		
	Exces	s Precipitation (100-Ye	ar, 6-Hour Storm) E _A A _A + E _B A _B + E _C A	$A_C + E_D A$			
Historic E		s Precipitation (Weighted E =	100-Ye	ar, 6-Hour Storm) $E_{A}A_{A} + E_{B}A_{B} + E_{C}A_{C}$ $A_{A} + A_{B} + A_{C}$	$\frac{A_C + E_D A}{A_D}$	T)		
On-Site Weighted Historic E On-Site Volume of Historic V ₃₆₀		s Precipitation (Weighted E =	in.	ar, 6-Hour Storm) $E_A A_A + E_B A_B + E_{CA}$ $A_A + A_B + A_C$ Developed E	$\frac{A_C + E_D A}{A_D}$	T)		
Historic E On-Site Volume o Historic V ₃₆₀	= harge	off: V360 =	in.	ar, 6-Hour Storm) $E_A A_A + E_B A_B + E_{CA}$ $A_A + A_B + A_C$ Developed E $E*A / 12$	$A_{c} + E_{D}A_{c} + A_{D} = $ = / 43,560	1.54	in.	

2124 DPM Calculations - 100 yr 6 hr WITH FIRST FLUSH1.xlsx

BASIN NO.		DES	CRIPTION	FIRST FI	LUSH TOTAL - OV	ERALL PROPERTY
Area of basin flows =	159019	SF		=	3.7 Ac.	
The following calculation	ns are based on Tre	eatment areas a	s shown in table	to the right	LAND TR	EATMENT
	Sub-basin Weight	ed Excess Prec	ipitation (see fo	rmula above)	A = '	0%
	Weighted E	===	1.54 ir	1.	$\mathbf{B} =$	18%
	Sub-basin Volume	of Runoff (see	e formula above)	$\mathbf{C} =$	20%
	V ₃₆₀	=	20407	CF	$\mathbf{D} =$	62%
	Sub-basin Peak D	ischarge Rate:	(see formula abo	ove)	FIRST FL	USH VOL.
	Q_{P}	_	13.3	cfs		2793 CF

PRE-DESIGN CONFERENCE IS REQUESTED



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

Project Title: Generations at West Mesa	Building Permit #: City Drainage #: K11 / 100
DRB#: EPC#:	Work Order#:
Legal Description: Tract C-8-B, Town of Atrisco Grant, Airpor	t Unit AND Lots 5 and 6, Torres Addition AND Vacated Portion of Esperanza Dr. N.W.
City Address: 57th Street and Avalon Road NW	5710 A 4 A LON
Engineering Firm: Isaacson & Arfman, P.A.	Contact: Fred Arfman, PE
Address: 128 Monroe Street NE - Albu	
Phone#: (505) 268-8828 Fax#:	E-mail: Freda@iacivil.com
Owner: City of Albuquerque	Contact: Doug Chaplin, COA Dept. of Family & Comm. Serv
Address: POBox 1293, Albuquerque, NM 87103	Contact. — Joseph Graphin, Gord Dopti Graphin,
Phone#: 7689-2860 Fax#:	E-mail: dchaplin@cabq.gov
A Italian - A Doldkor/Dorioh/Cohotini	
Architect: Dekker/Perich/Sabatini Address: 7601 Jefferson NE, Suite 100, Albuquerque	Contact: Miriam Hicks NIM 87100
Phone#: (505) 761-9700 Fax#:	E-mail: miriamh@dpsdesign.org
Surveyor: Surv-Tek, Inc	Contact: Russ Hugg
Address:	
Phone#: (505) 897-3366 Fax#:	E-mail: Hugg@survtek.com
Contractor:	Contact:
Address:	
Phone#: Fax#:	E-mail:
TYPE OF SUBMITTAL:	CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:
DRAINAGE REPORT	SIA/FINANCIAL GUARANTEE RELEASE
DRAINAGE PLAN 1st SUBMITTAL	PRELIMINARY PLAT APPROVAL
DRAINAGE PLAN RESUBMITTAL	S. DEV. PLAN FOR SUB'D APPROVAL HO Vanifical
X CONCEPTUAL G & D PLAN	X S. DEV. FOR BLDG. PERMIT APPROVALE PERMIT APPROVALE
GRADING PLAN	SECTOR PLAN APPROVAL
EROSION & SEDIMENT CONTROL PLAN (ESC)	FINAL PLAT APPROVAL CERTIFICATE OF OCCUPANICY (DITE) AUG 2 6 2015
ENGINEER'S CERT (HYDROLOGY)	CERTIFICATE OF OCCUPANCY (PERM)
CLOMR/LOMR	CERTIFICATE OF OCCUPANCY (TCL TEMP)
TRAFFIC CIRCULATION LAYOUT (TCL)	FOUNDATION PERMIT APPROVAL LAND DÉVELOPMENT SECTION
ENGINEER'S CERT (TCL)	BUILDING PERMIT APPROVAL
ENGINEER'S CERT (DRB SITE PLAN)	GRADING PERMIT APPROVAL SO-19 APPROVAL
ENGINEER'S CERT (ESC)	PAVING PERMIT APPROVAL ESC PERMIT APPROVAL
SO-19	WORK ORDER APPROVAL ESC CERT. ACCEPTANCE
OTHER (SPECIFY)	GRADING CERTIFICATION OTHER (SPECIFY)
WAS A PRE-DESIGN CONFERENCE ATTENDED:	Yes No Copy Provided
THE PERION COM EMPLEMENT MEDITOR AND THE PROPERTY.	AND THE COPTIONIUM
DATE SUBMITTED: August 26, 2015	By: Fred C. Arfman, PE

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location, and scope to the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the following

- 1. Conceptual Grading and Drainage Plan Required for approval of Site Development Plans greater than five (5) acres and Sector Plans
- 2. Drainage Plans: Required for building permits, grading permits, paving permits and site plans less than five (5) acres
- 3. Drainage Report. Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more
- 4. Erosion and Sediment Control Plan: Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than are part of a larger common plan of development

CITY OF ALBUQUERQUE PLANNING DEPARTMENT DEVELOPMENT SERVICE / HYDROLOGY SECTION

DATE:

CONFERENCE RECAP
ZONE ATLAS PAGE NO: KI DOBY DRAINAGE FILE: KIDOBY ZONING: DRB: YOS SUBJECT: SUBSCRIPTIONS @ WEST MESA (SR. ITOUSING) STREET ADDRESS (IF KNOWN): SUBDIVISION NAME: SUBDIVISION NAME:
APPROVAL REQUESTED:
ATTENDANCE: Curtis Cherne, Bryan Bobnck, Ritan Harmon
FINDINGS:
- FREE DISCHARGE AFTER FIRST FLUSH CAPTURED
- opt 1) Avalyze 57th St. Capacity + discharge into St (anayze onsite Drive for capa 2) Put inlet in onsite & tie to
existing MH in 574n
- Double A inlet Downstream (near Fire station) can pick up st. flows + flows from this development.
THE UNDERSIGNED AGREES THAT THE ABOVE FINDINGS ARE SUMMARIZED ACCURATELY AND ARE SUBJECT TO CHANGE IF FURTHER INVESTIGATION REVEALS THAT THEY ARE NOT REASONABLE OR THAT THEY ARE BASED ON INACCURATE INFORMATION. SIGNED: NAME (PRINT): Curtis A. Cherne NAME (PRINT): Bryan Bobrick

NOTE PLEASE PROVIDE A COPY OF THIS RECAP WITH YOUR DRAINAGE SUBMITTAL.