

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

June 29, 2023

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

**RE: 13600 Quaking Aspen PI NE
Grading & Drainage Plans
Engineer's Stamp Date: 06/08/23
Hydrology File: E23D003C2**

Dear Mr. Arfman:

Based upon the information provided in your submittal received 06/09/2023, the Grading and Drainage Plan is approved for Building Permit and Grading Permit. **Since this site has storm walls, a pad certification is not needed for this project.** Please attach a copy of this approved plan in the construction sets for Building Permit processing along with a copy of this letter.

PRIOR TO CERTIFICATE OF OCCUPANCY:

1. Engineer's Certification, per the DPM Part 6-14 (F): Engineer's Certification Checklist For Non-Subdivision is required.

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

Sincerely,

Renée C. Brissette

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



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

Project Title: 13600 Quaking Aspen PI NE
Lot 38, Desert Highlands Building Permit # _____ Hydrology File # E23 & 24
DRB# _____ EPC# _____

Legal Description: Lot 38, Desert Highlands @ City Address OR Parcel 102406203739820303
High Desert, Unit 2

~~Applicant~~/Agent: Isaacson & Arfman, Inc. Contact: Fred C. Arfman & Bryan J. Brobrick
Address: 128 Monroe Street NE Phone: (505) 268-8828
Email: freda@iacivil.com or bryanb@iacivil.com

~~Applicant~~/Owner: _____ Contact: _____
Address: _____ Phone: _____
Email: _____

TYPE OF DEVELOPMENT: _____ PLAT (#of lots) _____ RESIDENCE ☒ DRB SITE _____ ADMIN SITE: _____
RE-SUBMITTAL: _____ YES ☒ NO

DEPARTMENT: _____ TRANSPORTATION _____ ☒ HYDROLOGY/DRAINAGE

Check all that apply:

TYPE OF SUBMITTAL:

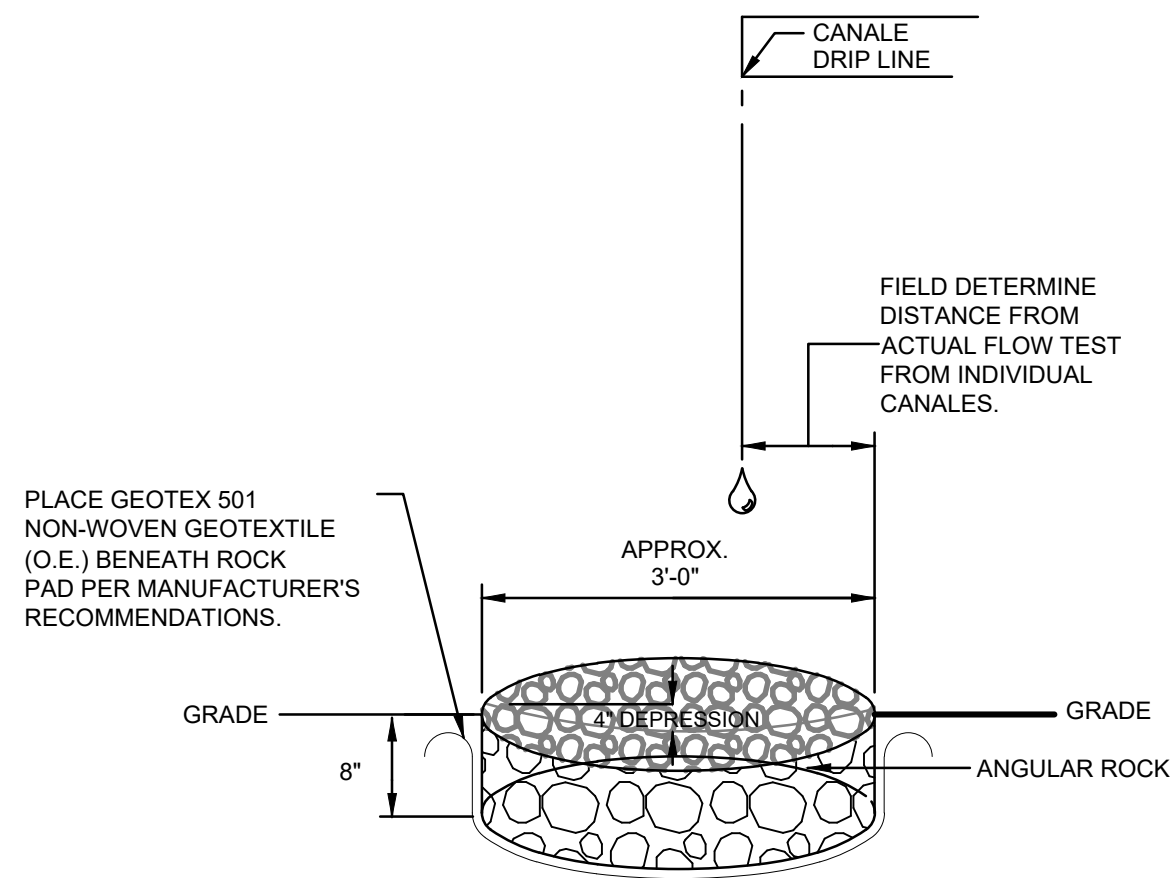
____ ENGINEER/ARCHITECT CERTIFICATION
____ PAD CERTIFICATION
____ CONCEPTUAL G&D PLAN
☒ GRADING PLAN
____ DRAINAGE REPORT
____ DRAINAGE MASTER PLAN
____ FLOOD PLAN DEVELOPMENT PERMIT APP.
____ ELEVATION CERTIFICATE
____ CLOMR/LOMR
____ TRAFFIC CIRCULATION LAYOUT (TCL)
____ ADMINISTRATIVE
____ TRAFFIC CIRCULATION LAYOUT FOR DRB
____ APPROVAL
____ TRAFFIC IMPACT STUDY (TIS)
____ STREET LIGHT LAYOUT
____ OTHER (SPECIFY)
____ PRE-DESIGN MEETING?

TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

☒ BUILDING PERMIT APPROVAL
____ CERTIFICATE OF OCCUPANCY
____ CONCEPTUAL TCL DRB APPROVAL
____ PRELIMINARY PLAT APPROVAL
____ SITE PLAN FOR SUB'D APPROVAL
____ SITE PLAN FOR BLDG PERMIT APPROVAL
____ FINAL PLAT APPROVAL
____ SIA/RELEASE OF FINANCIAL GUARANTEE
____ FOUNDATION PERMIT APPROVAL
____ GRADING PERMIT APPROVAL
____ SO-19 APPROVAL
____ PAVING PERMIT APPROVAL
____ GRADING PAD CERTIFICATION
____ WORK ORDER APPROVAL
____ CLOMR/LOMR
____ FLOOD PLAN DEVELOPMENT PERMIT
____ OTHER (SPECIFY) _____

DATE SUBMITTED: June 8, 2023

CALCULATIONS: 13600 Quaking Aspen Pl. NE : June 7, 2023									
Based on City of Albuquerque DMP, Article 6-2 Hydrology dated June 26, 2020									
100-YEAR, 6-HOUR CALCULATIONS									
AREA OF SITE:		40676.328		SF	=	0.9338		ACRE	
100-year, 6-hour									
ALLOWABLE FLOWS:				DEVELOPED FLOWS:				EXCESS PRECIP:	
		Treatment	SF	%			Treatment	SF	%
Area A	=	20338		50%	Area A	=	17898		44%
Area B	=	11540		28%	Area B	=	9356		23%
Area C	=	0		0%	Area C	=	2847		7%
Area D	=	8798		22%	Area D	=	10576		26%
Total Area	=	40676		100%	Total Area	=	40676		100%
Precip. Zone 4									
E _A = 0.76									
E _B = 0.95									
E _C = 1.20									
E _D = 3.34									
On-Site Weighted Excess Precipitation (100-Year, 6-Hour Storm)									
Weighted E =		$\frac{E_A A_A + E_B A_B + E_C A_C + E_D A_D}{A_A + A_B + A_C + A_D}$							
		A _A + A _B + A _C + A _D							
Allowable E	=	1.37 in.		Developed E	=	1.51 in.			
On-Site Volume of Runoff: V ₃₆₀ = E*A / 12									
Allowable V ₃₆₀	=	4651 CF		Developed V ₃₆₀	=	5103 CF			
On-Site Peak Discharge Rate: Q _p = Q _{pA} A _A + Q _{pB} A _B + Q _{pC} A _C + Q _{pD} A _D / 43,560									
For Precipitation Zone 4									
Q _{pA}	=	2.09			Q _{pC}	=	3.41		
Q _{pB}	=	2.73			Q _{pD}	=	4.78		
Allowable Q _p	=	2.7 CFS			Developed Q _p	=	2.8 CFS		



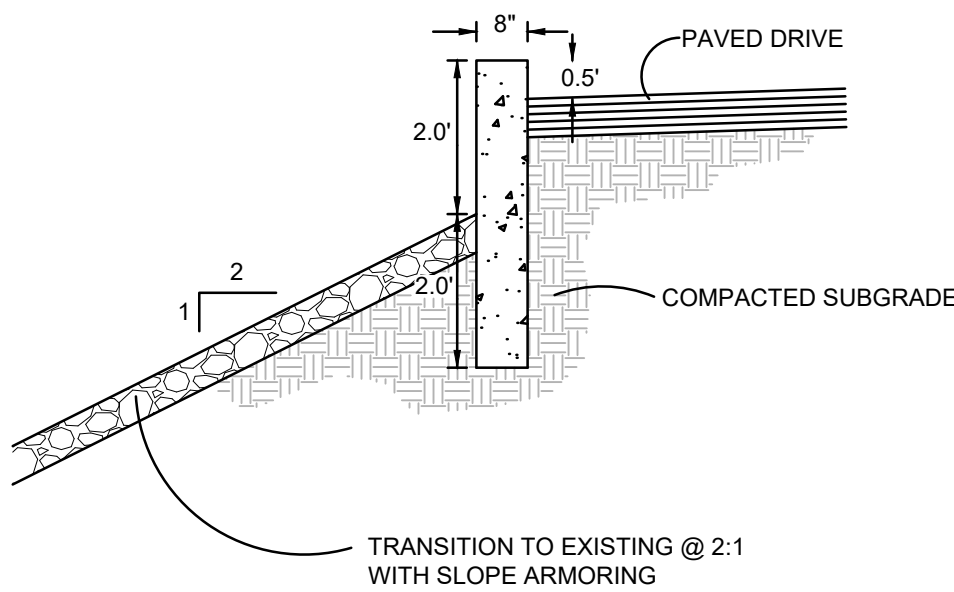
- A. INSTALL ALL STORM DRAIN INLETS AND PIPE PER MANUFACTURER'S SPECIFICATIONS.
- B. EACH PROPOSED INLET TO CONSIST OF AN ADS NYLOPLAST INLINE DRAIN WITH 6" OUTLET. INLETS WITHIN LANDSCAPE TO HAVE 8" DIA. DOME GRATE. INLET IN PAVEMENT TO HAVE 12" SQUARE GRATE. EXTEND 8" ADS PIPE AND CONNECT TO PROPOSED STORM DRAIN MAINLINE USING ADS N12WT (WT=WATERTIGHT) TEES AND BENDS OR ADS INSERTA-TEE.
- C. ALL STORM DRAIN LINES AND FITTINGS TO BE ADS N-12WT WATERTIGHT.
- D. MINIMUM SLOPE = 1.0% UNLESS NOTED.
- E. STORM DRAIN SYSTEM WILL REQUIRE REGULAR MAINTENANCE TO ENSURE PROPER FUNCTIONING DURING STORM EVENTS. ENGINEER RECOMMENDS THAT PROPERTY OWNER PUT IN PLACE INSPECTION AND MAINTENANCE CRITERIA SCHEDULED TO OCCUR MONTHLY AND AFTER EACH STORM EVENT.

STORM DRAIN NOTES

SCALE: N.T.S.

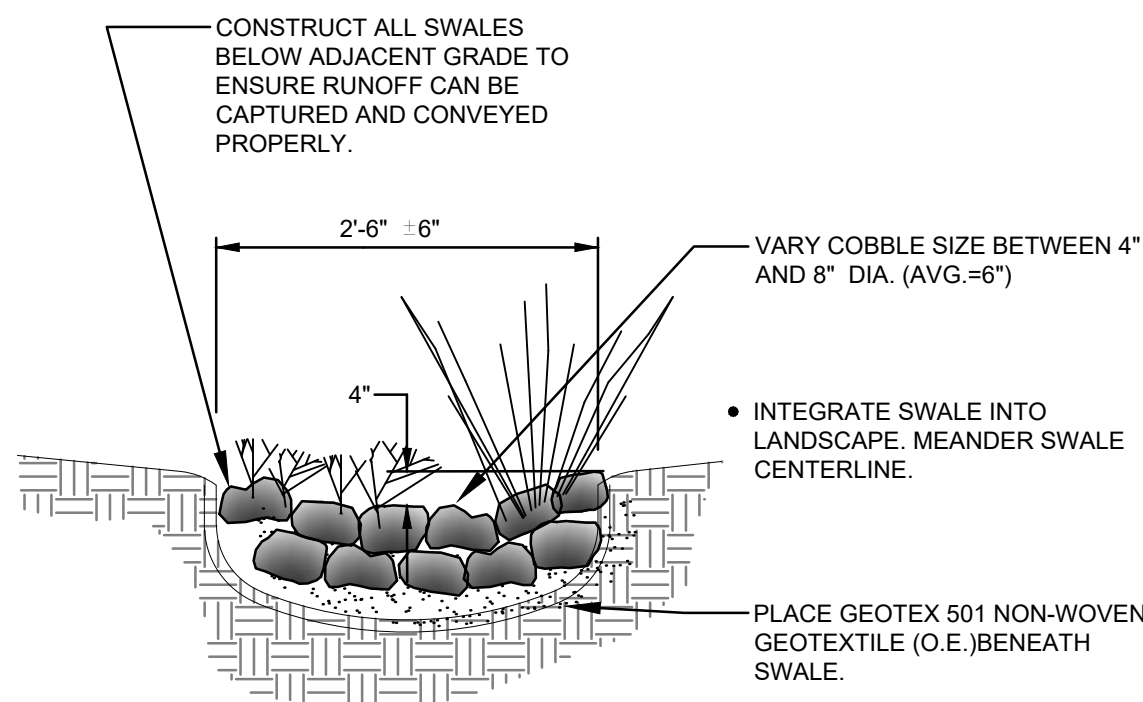
ANGULAR ROCK SPLASH PAD

SCALE: N.T.S.



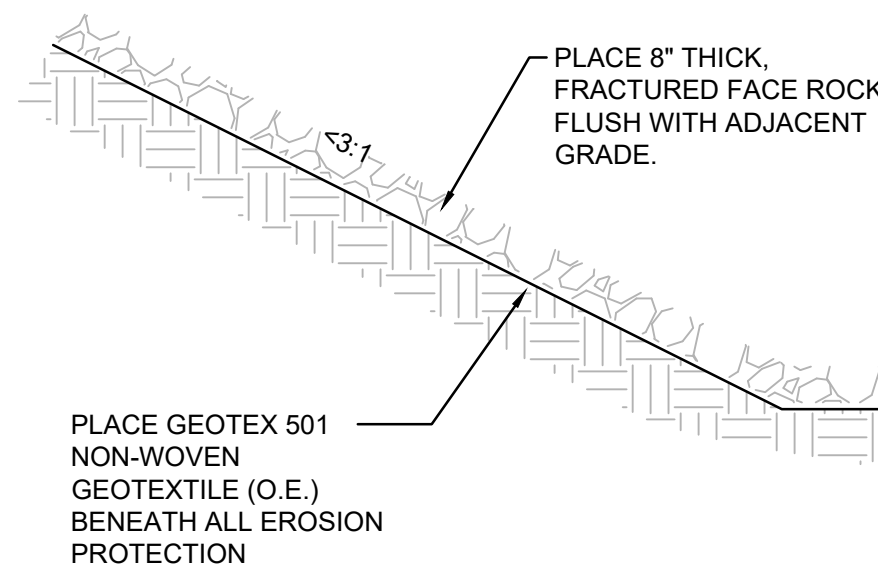
MODIFIED HEADER CURB

SCALE: N.T.S.



ANGULAR ROCK SWALE

SCALE: N.T.S.



SLOPE EROSION PROTECTION

SCALE: N.T.S.

No		Date	Description
SHEET TITLE			
CIVIL DETAILS			
SHEET NUMBER			
CG501			