

FIRM PANEL, REVISION NOVEMBER 2012 Per LOMR Case 11-06-2877P

GRADING & DRAINAGE PLAN

THE RESIDENTIAL HOME PROJECT IS LOCATED IN UNIT 3 OF NORTH ALBUQUERQUE ACROSS APPROXIMATELY 1.1 MILES FROM THE DOWNTOWN CORE OF ALBUQUERQUE, NM. THE GRADING AND DRAINAGE SCHEDULE HEREON IS IN COMPLIANCE WITH THE BERNALILLO COUNTY FLOOD HAZARD ORDINANCE, NO. 88-46, AND CITY STORM DRAINAGE ORDINANCE. THE PLAN IS REQUIRED IN ORDER TO FACILITATE THE OWNER'S REQUEST FOR BUILDING PERMIT. THE PLAN SHOWS:

1. EXISTING CONTOURS, SPOT ELEVATIONS, AND EXISTING DRAINAGE PATTERNS.
2. PROPOSED IMPROVEMENTS: 1. RESIDENTIAL HOME SITE, GRAVEL-CONCRETE DRIVEWAY, WELL AND SEPTIC SYSTEM, AND NEW GRADE ELEVATIONS.
3. QUANTIFICATION AND ACCEPTANCE OF UPSTREAM OFFSITE FLOWS WHICH CONTRIBUTE TO THE DEVELOPED FLOWS GENERATED BY THE IMPROVEMENTS.
4. QUANTIFICATION AND ACCEPTANCE OF UPSTREAM OFFSITE FLOWS WHICH CONTRIBUTE TO THE DEVELOPED FLOWS GENERATED BY THE IMPROVEMENTS.
5. UPSTREAM ANALYSIS AS TO WATER SURFACE MODEL AND EROSION SETBACK AND EROSION CONTROL.

THE PURPOSE OF THE PLAN IS TO ESTABLISH CRITERIA FOR CONTROLLING STORM RUNOFF AND EROSION, AND TO PROVIDE THE CITY ENGINEER WITH THE NECESSARY INFORMATION TO EVALUATE THE PROPOSED IMPROVEMENTS. THE PLAN IS APPROVED ASHALL FLOWING ALONG THE PROJECT FRONTAGE. THE SITE GENERALLY FALLS FROM EAST TO WEST AT APPROX. 3.5 PERCENT. ALL OFFSITE FLOWS ARE QUANTIFIED ON THE PLAN AND ADDRESSED IN THE CALCULATIONS. A PORTION OF THE SITE IS OCCUPIED BY A DESIGNATED FEMA FLOODPLAIN.

HISTORICAL SITE RUNOFF OUTLET LOCATIONS WILL REMAIN UNCHANGED IN DEVELOPMENT. SINCE ALAMEDA AVE IS A MAJOR DRAINAGE CHANNEL, THE PROPOSED IMPROVEMENTS WILL BE DESIGNED TO MAINTAIN THE EXISTING ACCEPTABLE SINCE DOWNSTREAM CAPACITY (LA CIEVA CHANNEL) EXISTS AND THE TOTAL DEVELOPED RUN-OFF DOES NOT EXCEED THE ZONE 3 MAXIMUM ESTABLISHED IN THE NMA MASTER DRAINAGE PLAN.

PHILIP W. CLARK ENGINEERS

DESIGN CRITERIA

HYDROLOGIC METHODS PER SECTION 22.2, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL (DPPM) USED UNLESS OTHERWISE NOTED FOR CITY OF ALBUQUERQUE, ADOPTED BY BERNALILLO COUNTY. DISCHARGE RATE: Q=PEAK X AREA, Peak Discharge Rates For Small Watersheds VOLUMETRIC DISCHARGE: VOLUME = [Weighted x AREA] X TIME OF CONCENTRATION, TC = 10 Minutes P100 = 2.60 inches, Zone 3 DESIGN STORM: 100-YEAR/6-HOUR, 10-YEAR/6-HOUR [] = 10 YEAR VALUES

HISTORIC CONDITIONS PER EXIST. LOT
 PROJECT AREA = 0.89 ACRES, WHERE EXCESS PRECIP. Weighted = -0.66 in. [0.19]
 PEAK DISCHARGE: Q100 = 1.7 CFS [0.51] WHERE UNIT PEAK DISCHARGE Y₁ = 1.9 CFS/AC. [0.60]
 THEREFORE: VOLUME 100 = 2123 CF [611]

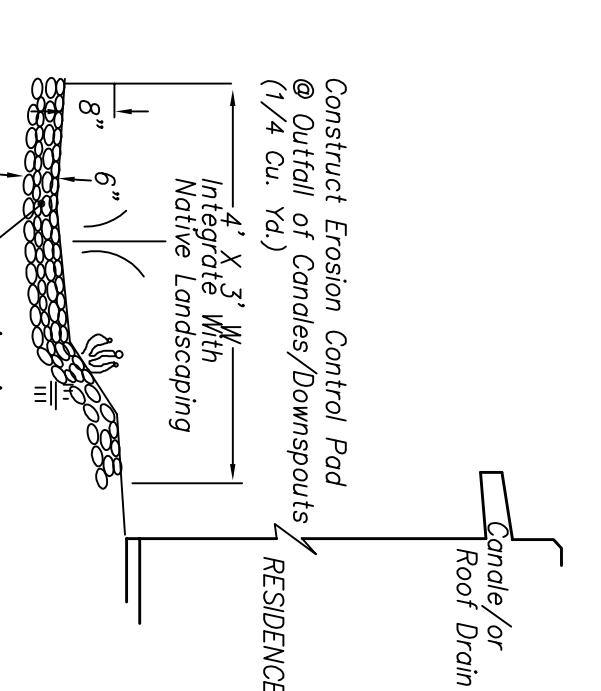
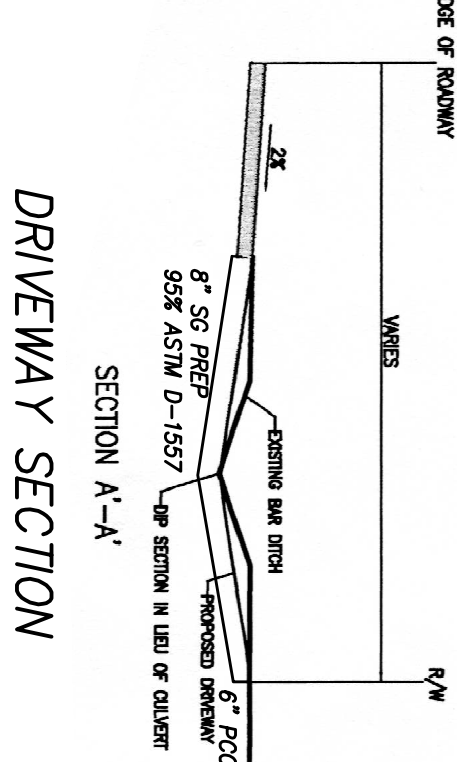
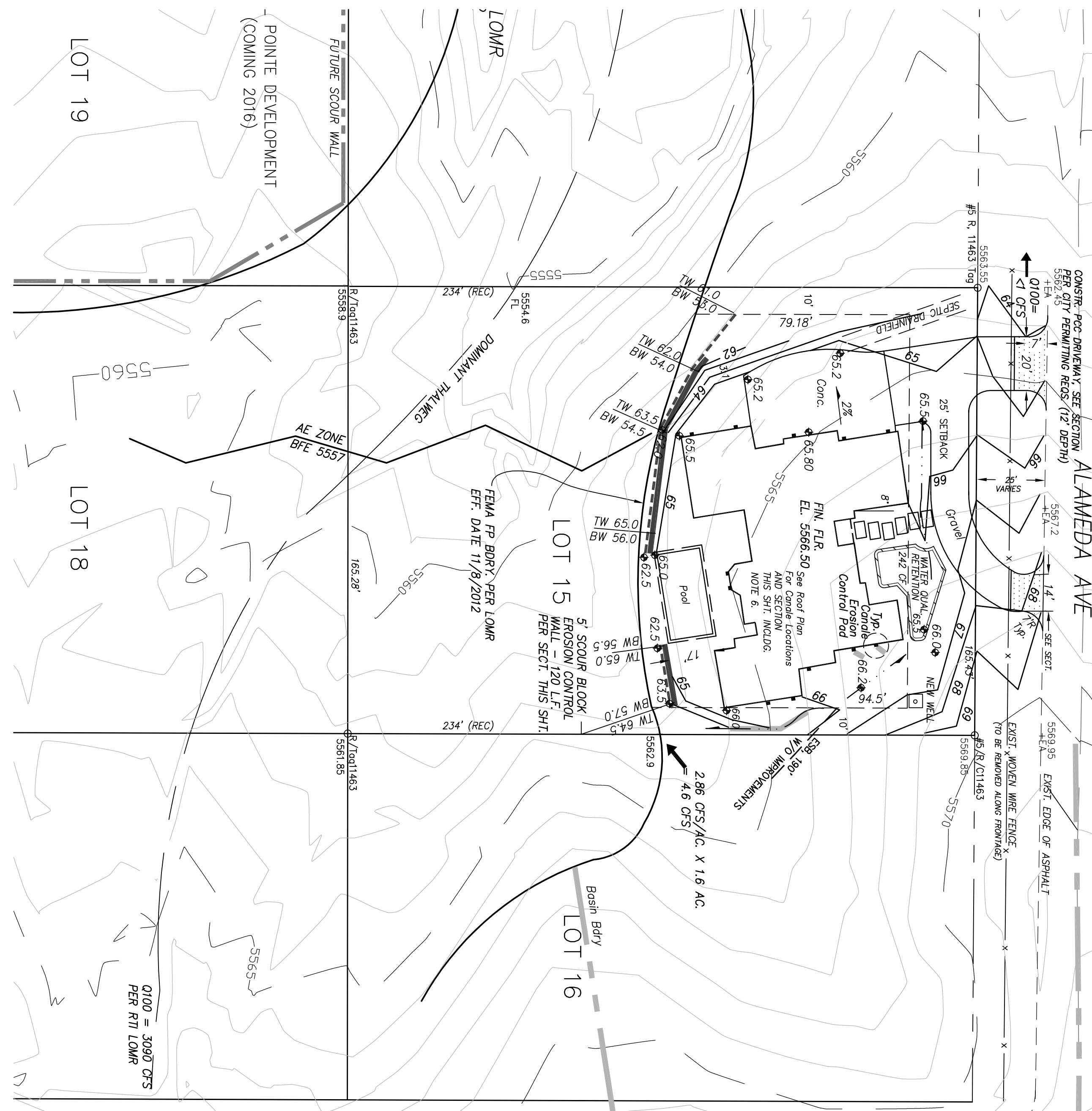
DEVELOPED CONDITIONS DETERMINE LAND TREATMENTS, PEAK DISCHARGE AND VOLUMETRIC DISCHARGE FOR STUDY AREA

LAND	AREA	PREPARATION	Q Peak	E
UNDEVELOPED	0.43 Ac. (48%)	A	1.87(10.58)	0.66(0.19)
LANDSCAPING	0.14 Ac. (15%)	B	2.60(1.19)	0.92(0.36)
LANDSCAPING	0.14 Ac. (15%)	C	3.49(2.00)	1.29(0.62)
ROOF - PAVEMENT	0.15 Ac. (17%)	D	5.02(3.35)	2.36(1.50)
0.89 Ac.				

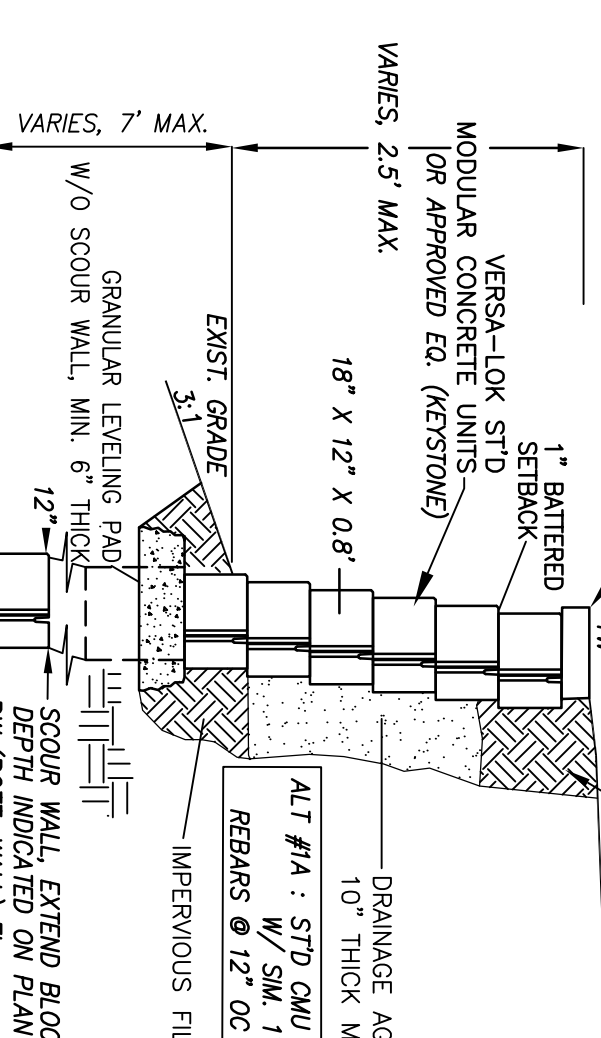
Weighted = 1.09 in. [XXX] & VOLUME 100 = 3506 CF
 Q100 = 2.5 CFS & VOLUME 10 = XXXX CF
 Q10 = 1.24 CFS

CALC. 1ST FLUSH, P(4-6MO.) = 0.6" Per Table 2 Water Qual. Storm
 PRO-RATE: 175/20x-0.85 x 0.09 = 0.0765 INCHES X 0.88 (43660/12) = 244 CF
 ADDITIONAL DE-SILTATION PROVIDED IN RIPRAP EROSION CONTROL PADS

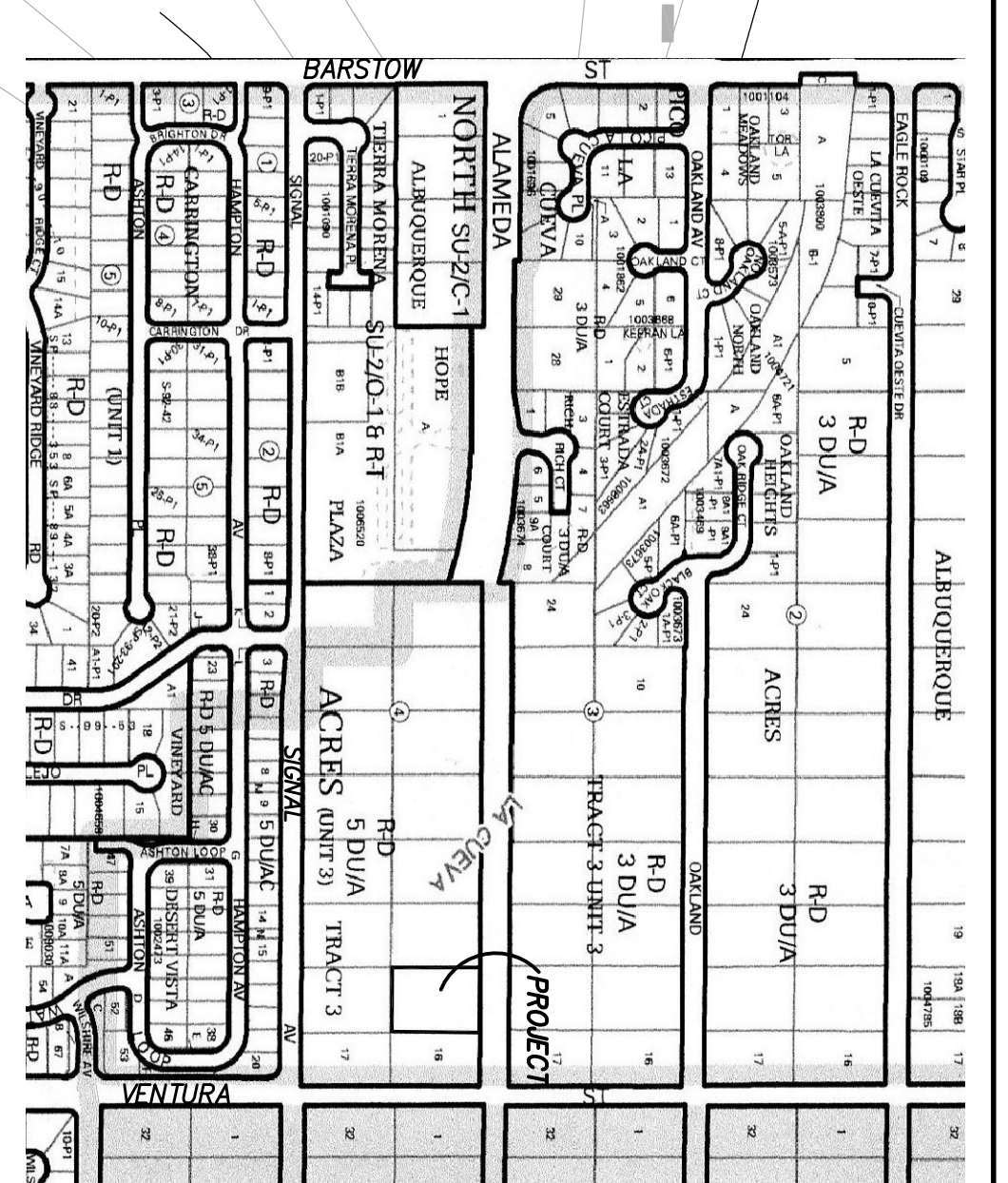
- UPSTREAM ANALYSIS - SEE HEC-RAS WATER SURFACE MODEL OF LA CIEVA ON FILE WITH CITY HYDROLOGY (Ref: C-20/D33) (REVISED 11.8.12)
- PER RFI STUDY, Q100 = 3090 CFS AT VENTURA ST. (SEE LOMR 2012)
- EROSION SET BACK ANALYSIS - PER SEDIMENT EROSION DESIGN GUIDE (SESDG) (REVISED 11.8.12)
- Q₁₀₀ = 3090 CFS... LA CIEVA ARROYO
- Q₁₀ = 618 CFS W₁₀ = 4.66' @ 60 FEET
- Q_{0.5} = 0.20' @ 618 CFS W_{0.5} = 4.66' @ 60 FEET
- LAMDA = [0.8 + 4.0(Q₁₀)] W₁₀ = 718 FEET BANK SETBACK = LAMDA/4 = 179 FEET
- CENTER LINE SETBACK = 659 + W/2 = 190 FEET
- THEREFORE, EROSION CONTROL IMPROVEMENTS REQUIRED - PER DISCUSSION WITH CITY AND AMARCA CONSTRUCT SCOUR WALL ON SOUTH SIDE OF FOOTPRINT



EROSION CONTROL PAD



RETAINING WALL SECTION W/ SCOUR WALL



NOTES

1. PERMETER FENCING AROUND THE PROPERTY IS NOT PROPOSED. CONSTRUCTION OF FUTURE FENCING SHALL PERMIT THE PASSING OF DRAINAGE TO AND FROM HISTORIC OUTFALL AND KEEP LOCATIONS. OWNER SHALL MAINTAIN FENCING AND KEEP FREE OF ALL DEBRIS, WEEDS, AND/OR OBSTRUCTIONS.
2. THIS PLAN SHOWS A FIXED PERCENTAGE OF LAND TREATMENT AREA IS DISTURBED BY A REVISIONED DEVELOPMENT. IF A GREATER AREA IS DISTURBED IN AN UNDISTURBED CONDITION, IF A REVISIONED DEVELOPMENT IS REQUIRED, THE PLAN SHALL BE REVISED TO SHOW THE CORRECTED PERCENTAGE OF LAND TREATMENT AREA.
3. CONTACT THE CITY OF ALBUQUERQUE PLANNING DEPARTMENT FOR ACCESS PERMIT @ PLAZA DEL SOL . 924-3991
4. REVEGETATE ALL AREAS DISTURBED DUE TO CONSTRUCTION PER CITY OF ALBUQ. SPEC. 1012. NATIVE SEED MIX.
5. MAXIMUM SITE GRADING WITHOUT EROSION PROTECTION: 3% HORIZONTAL TO 1 VERTICAL, 5:1.
6. RIPRAP STONE SHOWN ON THIS PLAN IS SMOOTH RIVER-RUN COBBLES. THE VAL IN COMPLIANCE WITH AMARCA GUIDELINES, 4' AVERAGE DIA. SANDSTONE, AND BURIED TO 6" DEEP (CONC. SETBACK CONTROL 7'x0). THIS SHEET: SEE FOOT PLAN FOR CANAL LOCATIONS.
7. CONTRACTOR SHALL ENSURE THAT NO SITE SOILS/SEDIMENT OR SILT ENTER THE RIGHT-OF-WAYS DURING CONSTRUCTION.

LEGEND

+24.0	EXIST. SPOT ELEVATION
10	EXIST. CONTOUR
24.0	NEW SPOT ELEVATION
12	NEW CONTOUR
---	EXIST. CURB & GUTTER
---	NEW SWALE
---	NEW P.C.C. CONCRETE
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Attn: Rudy

DRAINAGE AND TRANSPORTATION INFORMATION SHEET
(REV 01/06 - KDM)

PROJECT TITLE: The Jones Home ZONE MAP: C-20/0073
DRB#: _____ WORK ORDER#: _____

LEGAL DESCRIPTION: LOT 15, B/LK. 4, T 3, U 3, N. A/B, Acres
CITY ADDRESS: 9000 Alameda Ave NE, 87122

ENGINEERING FIRM: Clark Consulting Engineers CONTACT: Phil
ADDRESS: 19 Ryan Road PHONE: 281-2444 & FAX
CITY, STATE: Edgewood, NM ZIP CODE: 87015

OWNER: Jones CONTACT: _____
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____

ARCHITECT: N/A CONTACT: _____
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____

SURVEYING FIRM: Terrametrics of New Mexico LICENSED SURVEYOR: Phil Turner
ADDRESS: PO Box 30192 PHONE: 379-4301
CITY, STATE: Albuquerque NM ZIP CODE: 87190

CONTRACTOR: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____

TYPE OF SUBMITTAL:	CHECK TYPE OF APPROVAL SOUGHT:
_____ DRAINAGE REPORT	_____ SIA/FINANCIAL GUARANTEE RELEASE
<input checked="" type="checkbox"/> DRAINAGE PLAN 1 st SUBMITTAL	_____ PRELIMINARY PLAT APPROVAL
_____ DRAINAGE PLAN RESUBMITTAL	_____ S. DEV. PLAN FOR SUB'D APPROVAL
_____ CONCEPTUAL G & D PLAN	_____ S. DEV. FOR BLDG. PERMIT APPROVAL
<input checked="" type="checkbox"/> GRADING PLAN	_____ SECTOR PLAN APPROVAL
_____ EROSION CONTROL PLAN	_____ FINAL PLAT APPROVAL
_____ ENGINEER'S CERT (HYDROLOGY)	_____ FOUNDATION PERMIT APPROVAL
_____ CLOMR/LOMR	<input checked="" type="checkbox"/> BUILDING PERMIT APPROVAL
_____ TRAFFIC CIRCULATION LAYOUT	_____ CERTIFICATE OF OCCUPANCY
_____ ENGINEER'S CERT (TCL)	_____ GRADING PERMIT APPROVAL
_____ ENGINEER'S CERT (DRB SITE PLAN)	_____ PAVING PERMIT APPROVAL
_____ OTHER (SPECIFY)	_____ WORK ORDER APPROVAL
	_____ OTHER (SPECIFY)

WAS A PRE-DESIGN CONFERENCE ATTENDED:

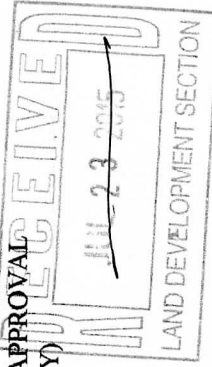
YES _____
 NO _____
COPY PROVIDED _____

DATE SUBMITTED:

8/21/15
2/23/16

BY:

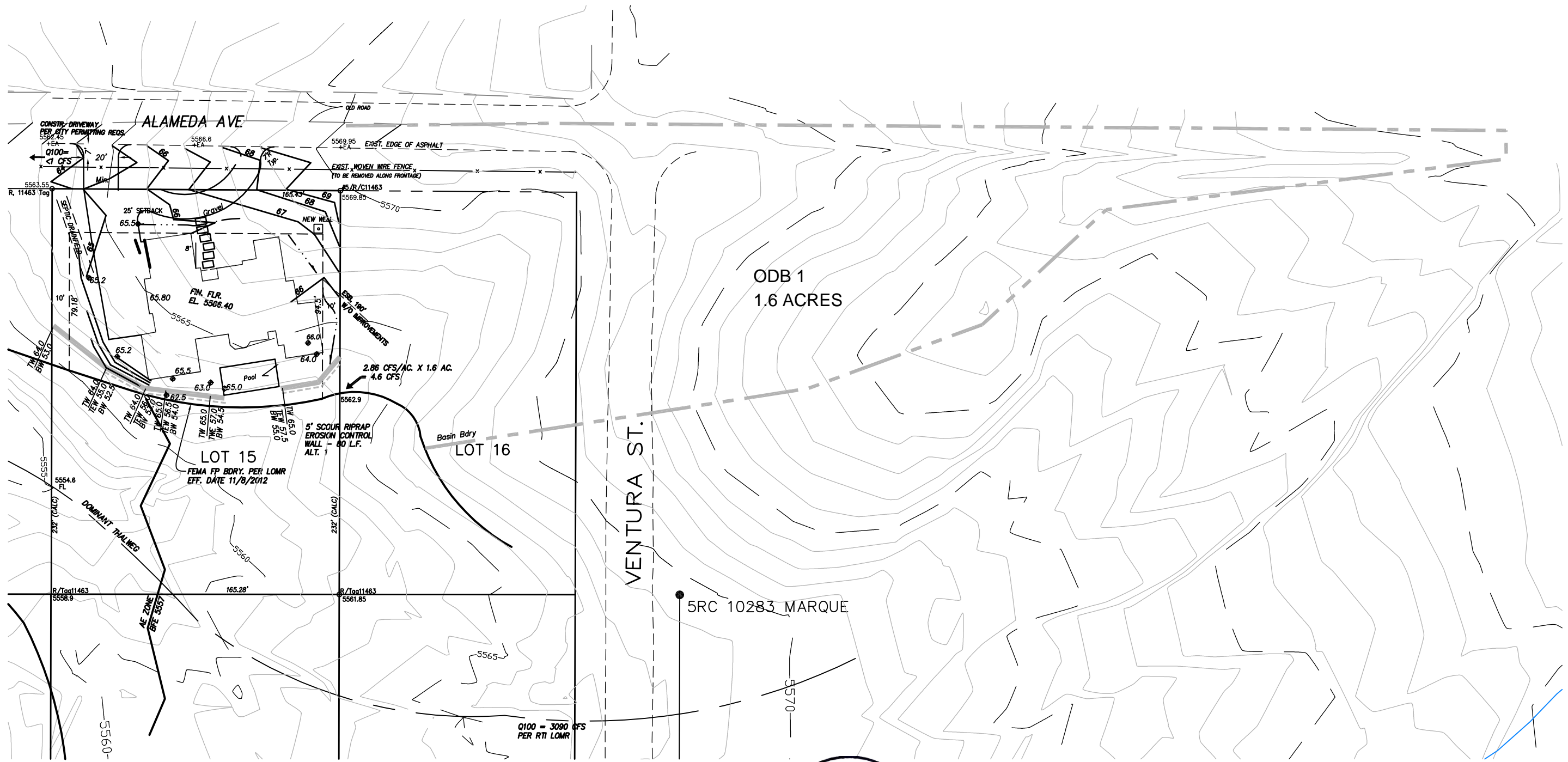
[Signature]



Requests for approvals of Site Development Plans and/or Subdivision Plans 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.

*Ci Pdf + A Hec. Plans + 3 four + X sections + 6 EPR image
Electronically @ 11:32, TODAY [Signature]*



8/16/15

PHILIP W. CLARK
 NEW MEXICO
 10285
 REGISTERED PROFESSIONAL ENGINEER

THE JONES HOME
OFFSITE DRAINAGE BASIN MAP
8/16/15

CITY OF ALBUQUERQUE

August 25, 2015

Philip W. Clark, PE
Clark Consulting Engineers
19 Ryan Rd
Edgewood, NM 87015



**Re: The Jones's Home
9000 Alameda Ave NE
Grading and Drainage
Engineers Stamp Date 8/20/2015 (C20D073)**

Dear Mr. Clark,

Based upon the information provided in your submittal received 8/21/2015, the above referenced Grading and Drainage Plan cannot be approved for Grading Permit or Building Permit until the following comments are addressed.

- Provide the location of the septic tank.
- Provide the specifications for the interlock retaining wall and scour wall system showing the tension fabric and other specifications.
- I calculated a Center Line Setback of 210', compared to your 190', please verify.
- Provide a concrete driveway up to the property line. Only one driveway is allowed off of Alameda.
- Provide reason for no scour wall to the south of the pool.

PO Box 1293

Albuquerque

If you have any questions, you can contact me at 924-3999 or Rudy Rael at 924-3977.

New Mexico 87103

Sincerely,

Shahab Biazar, P.E.
City Engineer, Albuquerque
Planning Department

www.cabq.gov

C: RR/SB
email