# CITY OF ALBUQUERQUE

*Planning Department* Brennon Williams, Director



Mayor Timothy M. Keller

July 22, 2021

Ron Hensley, P.E. The Group Branding Iron Rd. SE Rio Rancho, New Mexico 87124

RE: 8505 Mesa Rain Rd. NW Watershed Subdivision Grading and Drainage Plan Engineers Stamp Date 7/7/2021 (H09D017A8)

Mr. Hensley,

Based upon the information provided in your submittal received 7/8/2021, this plan is approved for Grading Permit.

PO Box 1293

Prior to Building permit approval a Pad Certification will be required, provided by the Engineer or a registered Land Surveyor.

Albuquerque Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist is required.

<sup>NM 87103</sup> If you have any questions, please contact me at 924-3986 or earmijo@cabq.gov.

Sincerely,

www.cabq.gov

Ernest Armijo, P.E. Principal Engineer, Planning Dept. Development Review Services



# City of Albuquerque

Planning Department Development & Building Services Division DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 11/2018)

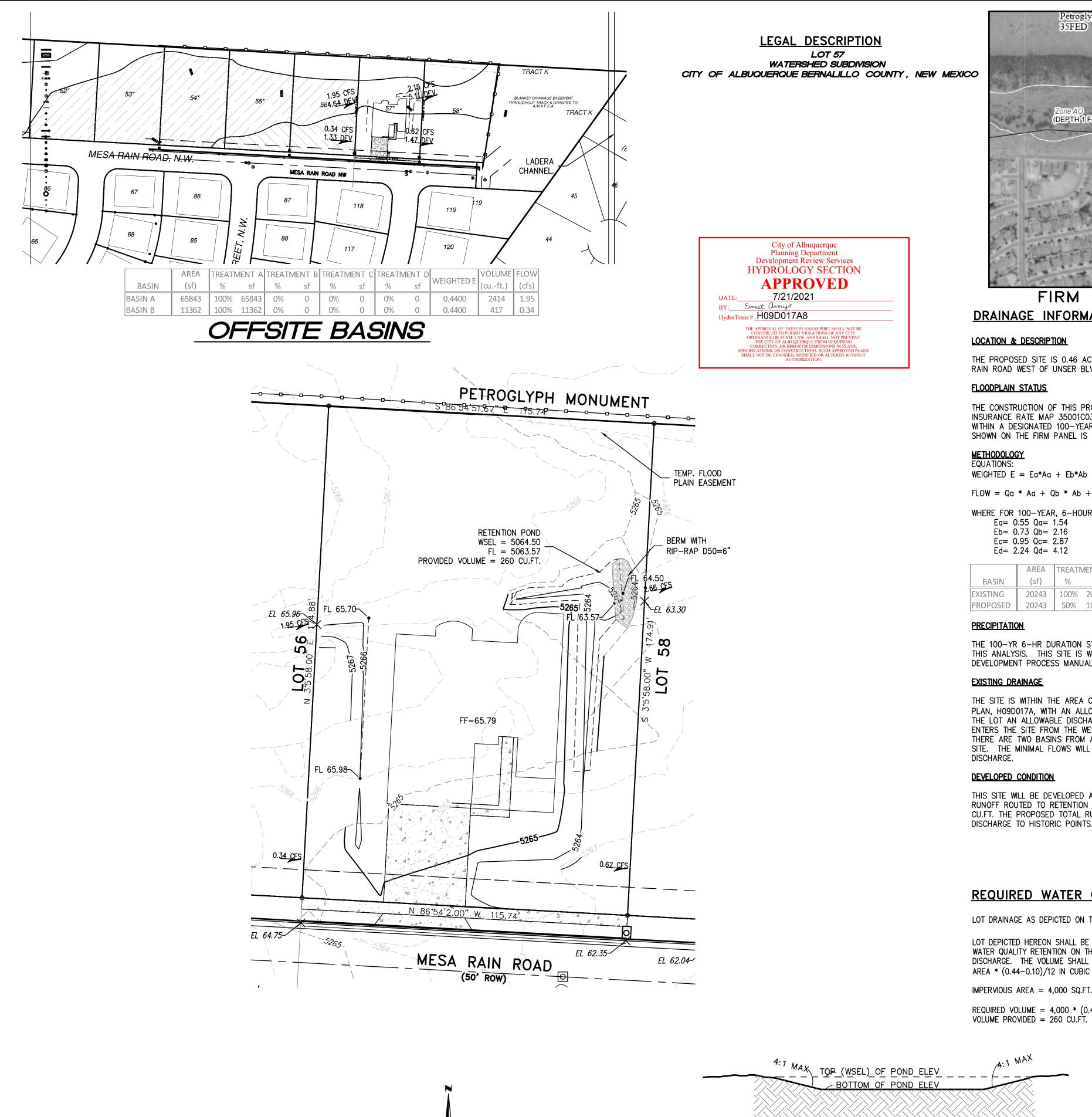
Project Title: 8505 MESA RAIN	Building Permit #:	Hydrology File #:H09D017A2
DRB#:	_ EPC#:	Work Order#:
Legal Description: LOT 57, WATERSHED SUBI	DIVISION	
City Address: 8505 MESA RAIN RD NW		
		Contact: Ron Hensley
Address: 300 Branding Iron Rd. SE, Rio Rancho, N	A 87124	
Phone#: 505-410-1622	_Fax#:	E-mail: ron@thegroup.cc
Owner: Stillbrooke		Contact: Scott Henry
Address: 8801 Jefferson NE Bldg. A, ALBUQUERQ	JE, NM 87113	
Phone#: <u>505-858-1800</u>	_Fax#:	E-mail: scotth@stillbrooke.com
IS THIS A RESUBMITTAL?: Ye DEPARTMENT: TRAFFIC/ TRANSPOR Check all that Apply:	TATION <u> </u>	NAGE AL/ACCEPTANCE SOUGHT:
TYPE OF SUBMITTAL:        < ENGINEER/ARCHITECT CERTIFICATION        < PAD CERTIFICATION        < CONCEPTUAL G & D PLAN        < GRADING PLAN        < DRAINAGE MASTER PLAN        < DRAINAGE REPORT        < FLOODPLAIN DEVELOPMENT PERMIT A        < ELEVATION CERTIFICATE        < CLOMR/LOMR        < TRAFFIC IMPACT STUDY (TIS)        < OTHER (SPECIFY)        < PRE-DESIGN MEETING?	BUILDING PER CERTIFICATE PRELIMINARY SITE PLAN FO SITE PLAN FO SITE PLAN FO FINAL PLAT A SIA/ RELEASE FOUNDATION GRADING PER SO-19 APPROV PAVING PERM GRADING/ PAI CLOMR/LOMR	AMIT APPROVAL OF OCCUPANCY PLAT APPROVAL R SUB'D APPROVAL R BLDG. PERMIT APPROVAL OF FINANCIAL GUARANTEE PERMIT APPROVAL AMIT APPROVAL VAL IIT APPROVAL O CERTIFICATION APPROVAL D CERTIFICATION

DATE SUBMITTED: 7/08/21 By: THE G

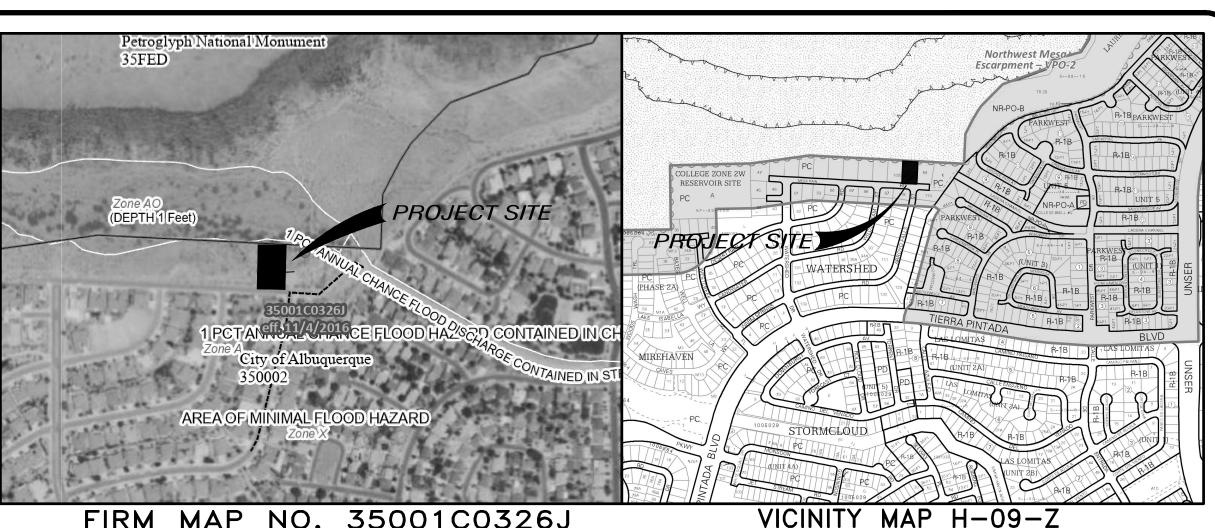
\_\_\_\_By: \_\_\_\_THE Group / Ron Hensley

ELECTRONIC SUBMITTAL RECEIVED:

FEE PAID:



SCALE: 1'' = 20'



## FIRM MAP NO. 35001C0326J DRAINAGE INFORMATION

## LOCATION & DESCRIPTION

THE PROPOSED SITE IS 0.46 ACRES LOCATED ON THE NORTH SIDE OF MESA RAIN ROAD WEST OF UNSER BLVD. AS SEEN ON THE VICINITY MAP.

THE CONSTRUCTION OF THIS PROJECT, AS SHOWN ON FEMA'S FLOOD INSURANCE RATE MAP 35001C0326J, DATED NOVEMBER 4, 2016 IS NOT WITHIN A DESIGNATED 100-YEAR FLOODPLAIN. AN EXHIBIT WITH THE SITE SHOWN ON THE FIRM PANEL IS INCLUDED ON THIS SHEET.

WEIGHTED E = Ea\*Aa + Eb\*Ab + Ec\*Ac + Ed\*Ad / (Total Area)

FLOW = Qa \* Aa + Qb \* Ab + Qc \* Ac + Qd \* Ad

### WHERE FOR 100-YEAR, 6-HOUR STORM(ZONE1)

Ea=	0.55	Qa=	1.54
Eb=	0.73	Qb=	2.16
Ec=	0.95	Qc=	2.87
Ed=	2.24	Qd=	4.12

EXISTING         20243         100%         20243         0%         0         0%         0         0%         0         0.4400         742         0.6		AREA	TREAT	MENT A	TREAT	MENT B	TREAT	MENT C	TREAT	MENT D		VOLUME	FLOW
	BASIN	(sf)	%	sf	%	sf	%	sf	%	sf	WEIGHTED E	(cuft.)	(cfs)
	EXISTING	20243	100%	20243	0%	0	0%	0	0%	0	0.4400	742	0.60
PROPOSED 20243 50% 10122 30% 6122 0% 0 20% 4000 0.8119 1370 0.5	PROPOSED	20243	50%	10122	30%	6122	0%	0	20%	4000	0.8119	1370	0.99

THE 100-YR 6-HR DURATION STORM WAS USED AS THE DESIGN STORM FOR THIS ANALYSIS. THIS SITE IS WITHIN ZONE 1 AS IDENTIFIED IN THE DEVELOPMENT PROCESS MANUAL, SECTION 6-2.

THE SITE IS WITHIN THE AREA OF THE WATERSHED SUBDIVISION DRAINAGE PLAN, H09D017A, WITH AN ALLOWABLE DISCHARGE OF 3.07 CFS/AC. GIVING THE LOT AN ALLOWABLE DISCHARGE OF 1.43 CFS HISTORIC DRAINAGE WHICH ENTERS THE SITE FROM THE WEST DRAINS TO THE EXISTING FLOODPLAIN. THERE ARE TWO BASINS FROM ADJACENT PROPERTIES THAT DRAIN TO THIS SITE. THE MINIMAL FLOWS WILL BE DIRECTED TO THE HISTORIC POINTS OF

THIS SITE WILL BE DEVELOPED AS A SINGLE FAMILY HOME WITH DEVELOPED RUNOFF ROUTED TO RETENTION PONDS WITH COMBINED VOLUME OF 307 CU.FT. THE PROPOSED TOTAL RUNOFF FROM THE LOT OF 0.99 CFS WILL DISCHARGE TO HISTORIC POINTS.

## REQUIRED WATER QUALITY VOLUME

LOT DRAINAGE AS DEPICTED ON THIS PLAN SHALL BE MAINTAINED.

LOT DEPICTED HEREON SHALL BE RESPONSIBLE FOR MAINTAINING WATER QUALITY RETENTION ON THE LOT IMMEDIATELY PRIOR TO DISCHARGE. THE VOLUME SHALL BE EQUAL TO: IMPERVIOUS AREA \* (0.44-0.10)/12 IN CUBIC FEET.

IMPERVIOUS AREA = 4,000 SQ.FT.

REQUIRED VOLUME = 4,000 \* (0.44 - 0.10)/12 = 113 CU.FT.

\_ \_\_ \_\_ 4.00%

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## <u>NOTES</u>

THE ENGINEER HAS UNDERTAKEN LIMITED FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UNDERGROUND UTILITY LINES, MAKES NO REPRESENTATION PERTAINING THERETO AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFORE. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY, AND PRESERVE ANY AND ALL EXISTING UTILITIES. THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES IN PLANNING AND CONDUCTING EXCAVATION, WHETHER BY CALLING OR NOTIFYING THE UTILITIES, COMPLYING WITH "BLUE STAKES" PROCEDURES, OR OTHERWISE.

THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.

THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, ARE INTENDED FOR USE ON THIS PROJECT AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF GND ENGINEERING, LLC IN THE EVENT OF UNAUTHORIZED USE, THE USER ASSUMES ALL RESPONSIBILITY AND LIABILITY WHICH RESULTS.

## **GENERAL NOTES:**

1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER THIS CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREIN, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION, UPDATE NO 8.

REVISIONS





2. THE EROSION PROTECTION SPECIFIED ON THIS PLAN IS THE MINIMUM RECOMMENDED. THE OWNER IS ENCOURAGED TO INCORPORATE EROSION RESISTANT LANDSCAPING ON AREAS WHERE EROSION MAY OCCUR SUCH AS SLOPES AND SWALES. THE OWNER IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL FEATURES NECESSARY TO PRESERVE THE DESIGN INTENT OF THE GRADING PLAN.

3. THE DRAINAGE INFRASTRUCTURE SHOWN ON THIS PLAN IS THE RESPONSIBLITY OF THE PROPERTY OWNER.

4. ALL DISTURBED AREAS OUTSIDE THE BUILDING PAD MUST BE RESEEDED OR LANDSCAPED

5. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, (260-1990) FOR LOCATION OF EXISTING UTILITIES.

6. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS AND EXISTING PAVEMENT. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM OF DELAY.

## EROSION CONTROL NOTES

- 1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
- 2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
- 3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
- 4. REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITES IS THE RESPONSIBILITY OF THE CONTRACTOR.
- 5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL (CITY) ACCEPTANCE OF ANY PROJECT.

## LEGEND

	FLOW ARROW
XX%_	SLOPE ARROW
-	PROPOSED ELEVATION
66.33	EXISTING ELEVATION
~~~~~	GRADE BREAK
	EXISTING CONTOUR
	EXISTING CONTOUR
	PROPOSED EASEMENT
	PROPOSED GRADE
	EXISTING WALL
	PROPOSED WALL



⊆group⊒ THE HENSLEY ENGINEERING GROUP 300 BRANDING IRON RD. SE RIO RANCHO, NEW MEXICO 87124 Phone:(505) 410-1622

	GRADING AND DRAINAGE PLAN 8505 MESA RAIN RD NW
	RAWN ATE 15/20
JOB	NUMBER

PLAN #

SHEET