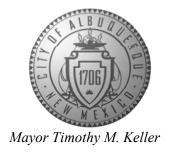
# CITY OF ALBUQUERQUE

Planning Department Alan Varela, Director



April 15, 2022

Ron Hensley, P.E. THE Group 300 Branding Iron Rd. SE Rio Rancho, NM 87124

RE: Watershed Subdivision 8505 Mesa Rain Rd. NW Permanent C.O. - Approved Engineer's Certification Date: 4/12/22

Engineer's Stamp Date: 7/7/21 Hydrology File: H09D017A8

Dear Mr. Hensley,

PO Box 1293 Based on the submittal received on 4/14/22, site visit on 4/15/22 this certification is approved for

Permanent Certificate of Occupancy by Hydrology.

Albuquerque

If you have any questions, please contact me at 924-3986 or earmijo@cabq.gov.

NM 87103 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 #: H09D017A8
DRB#:	EPC#:	Work Order#:
Legal Description: LOT 57, WATERSHE	ED SUBDIVISION	
City Address: 8505 MESA RAIN RD NW		
THE C		Postlant.
Applicant: THE Group		Contact: Ron Hensley
Address: 300 Branding Iron Rd. SE, Rio Rai		
Phone#: <u>505-410-1622</u>	Fax#:	E-mail: ron@thegroup.cc
Owner: Stillbrooke		Contact: Scott Henry
Address: 8801 Jefferson NE Bldg. A, ALBUG		
Phone#: 505-858-1800	Fax#:	E-mail: scotth@stillbrooke.com
IS THIS A RESUBMITTAL?: TRAFFIC/ TRANCheck all that Apply:	NSPORTATION V HY	
TYPE OF SUBMITTAL:  ENGINEER/ARCHITECT CERTIFIC  PAD CERTIFICATION  CONCEPTUAL G & D PLAN  GRADING PLAN  DRAINAGE MASTER PLAN  DRAINAGE REPORT  FLOODPLAIN DEVELOPMENT PER  ELEVATION CERTIFICATE  CLOMR/LOMR  TRAFFIC CIRCULATION LAYOUT  TRAFFIC IMPACT STUDY (TIS)  OTHER (SPECIFY)  PRE-DESIGN MEETING?	RMIT APPLIC  (TCL)	BUILDING PERMIT APPROVAL  CERTIFICATE OF OCCUPANCY  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  FLOODPLAIN DEVELOPMENT PERMIT  OTHER (SPECIFY)
DATE SUBMITTED: 4/12/22		/ Ron Hensley
COA STAFF:	ELECTRONIC SUBM	IITTAL RECEIVED:

FEE PAID:\_\_\_

City of Albuquerque Planning Department Development Review Services **HYDROLOGY SECTION** 

**APPROVED** 

7/21/2021

BY: Ernest armijo

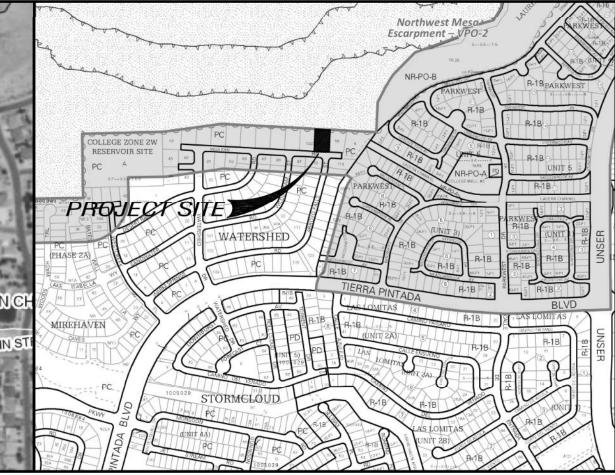
TEMP. FLOOD

PLAIN EASEMENT

2 - 8X12OPENINGS IN

BLOCK WALL

HydroTrans # H09D017A8



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.

### FLOODPLAIN STATUS

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.

### METHODOLOGY **EQUATIONS:**

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 = 2.16Ec= 0.95 Qc= 2.87

Ed= 2.24 Qd= 4.12

	AREA	TREATN	ΛΕΝΤ Α	TREATI	VENT B	TREATN	MENT C	TREATI	MENT D	WEIGHTED	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	0.99

### PRECIPITATION

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.

## EXISTING DRAINAGE

THE SITE IS WITHIN THE AREA OF THE WATERSHED SUBDIVISION DRAINAGE PLAN, HO9D017A, 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 DISCHARGE.

## DEVELOPED CONDITION

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.VOLUME PROVIDED = 260 CU.FT.

**LEGEND** 

FLOW ARROW SLOPE ARROW

EL=11.28 PROPOSED ELEVATION ×66.33 EXISTING ELEVATION GRADE BREAK

—— EXISTING CONTOUR ——— EXISTING CONTOUR

PROPOSED EASEMENT 4.00% PROPOSED GRADE

EXISTING WALL PROPOSED WALL

# VICINITY MAP H-09-Z

## 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,

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

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.

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.

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

8X16 OPENING

IN BLOCK WALL

1.33 DEV

MESA RAIN ROAD NW

TREATMENT A TREATMENT B TREATMENT C TREATMENT

OFFSITE BASINS

0 0 0 0 0 0

65843 | 100% 65843 | 0% 0 | 0% 0 | 0%

11362 | 100% 11362 | 0% 0 | 0% 0 | 0% 0

NO III

0.34 CFS

L 65.98

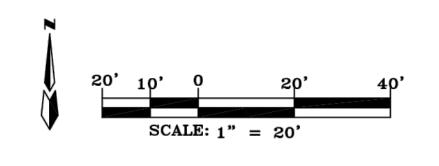
I, <u>RON E. HENSELY</u>, NMPE <u>21850</u>, OF THE FIRM <u>THE GROUP</u>, HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED READY FOR BUILDING PERMIT IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED <u>7/07/2021</u>, THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY TIMOTHY ALDRICH, NMPS <u>7719</u>, OF THE FIRM <u>ALDRICH LAND SURVEYING</u>.
FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON 4/11/2022, AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE SURVEY DATA PROVIDED IS REPRESENTATIVE OF ACTUAL SITE CONDITIONS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR <u>CERTIFICATE OF OCCUPANCY.</u> THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE ASPECTS OF THIS PROJECT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR

DRAINAGE CERTIFICATION

ANY OTHER PURPOSE.

AMARKS.

MESA RAIN ROAD, N.W.



EL 62.35-

EL 62.04~

LADERA CHANNEL.

cu.-ft.)

0.4400

2414 1.95

RETENTION POND

WSEL = 5064.50

PROVIDED VOLUME = 260 CU.FT.

FP=65.4

FF=65.79

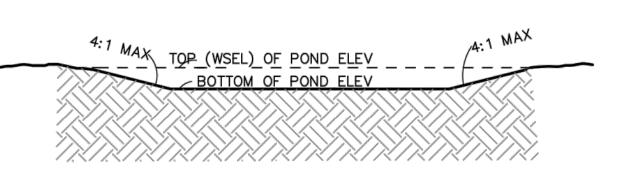
N 86'54'2.00" W 115.74'

MESA RAIN ROAD

(50' ROW)

FL = 5063.57

PETROGLYPH MONUMENT



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

THE

 $\triangleleft$ GE NW  $\triangleleft$ N N

K 10  $\odot$   $\infty$ DRAWN 06/15/20 JOB NUMBER

PLAN #

MEX

REVISIONS

5 N

SHEET