## Location

This project is located at 6704 Rim Rock Cir. Albuquerque, NM 87120 and contains 0.3076 acre. See attached portion of Vicinity Map D-10-Z for exact location.

#### **Purpose**

The purpose of this drainage report is to present a grading and drainage solution for the new house.

## **Existing Drainage Conditions**

This project falls within SAD 227 master drainage plan and drain to Rim Rock

#### **Proposed Conditions and On-Site Drainage Management Plan**

The drainage patterns will remain the same. The site will drain to ponds A & B and then to Rim Rock Cir. Ponds A & B are designed to hold a total volume of 537.21 cf. The required first flush volume is 248.58 cf 261.18 CF.

#### RUNOFF CALCULATIONS

BASIN	AREA (SF)	AREA (AC)	AREA (MI <sup>2</sup> )
ON-SITE	13,400.47	0.30763	0.000481

# E = EA(AA) + EB(AB) + EC(AC) + ED(AD)

AA + AB + AC + AD

EA = 0.55EB = 0.73EC = 0.95

ED = 2.24

DRAINAGE CERTIFICATION

CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL P-60 = 1.69P-360 = 2.17. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY NMPS 9801 LEONARD MARTINEZ OF SBS P-1440 = 2.49CONSTRUCTION AND ENGINEERING. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED P-10 Day = 3.90THE PROJECT SITE ON 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 FINAL CERTIFICATE OF OCCUPANCE

AA = 0.00%AB = 27.00% 25%AC = 20.00%

AD = -53.00% 55%

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 ANY OTHER

DATE

E = 1.46 INV-360 = 0.0435 AC-FTV-360 = 1.895.31

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A = 1.54 CFS/ACB = 2.16 CFS/ACC = 2.87 CFS/ACD = 4.12 CFS/AC

## TOTAL QP = QPA\*AA+QPB\*AB+QPC\*AC+QPD\*AD= -1.23 CFS (PROPOSED)

1.26 CFS

## FIRST FLIUSH PONDING REQUIREMENT

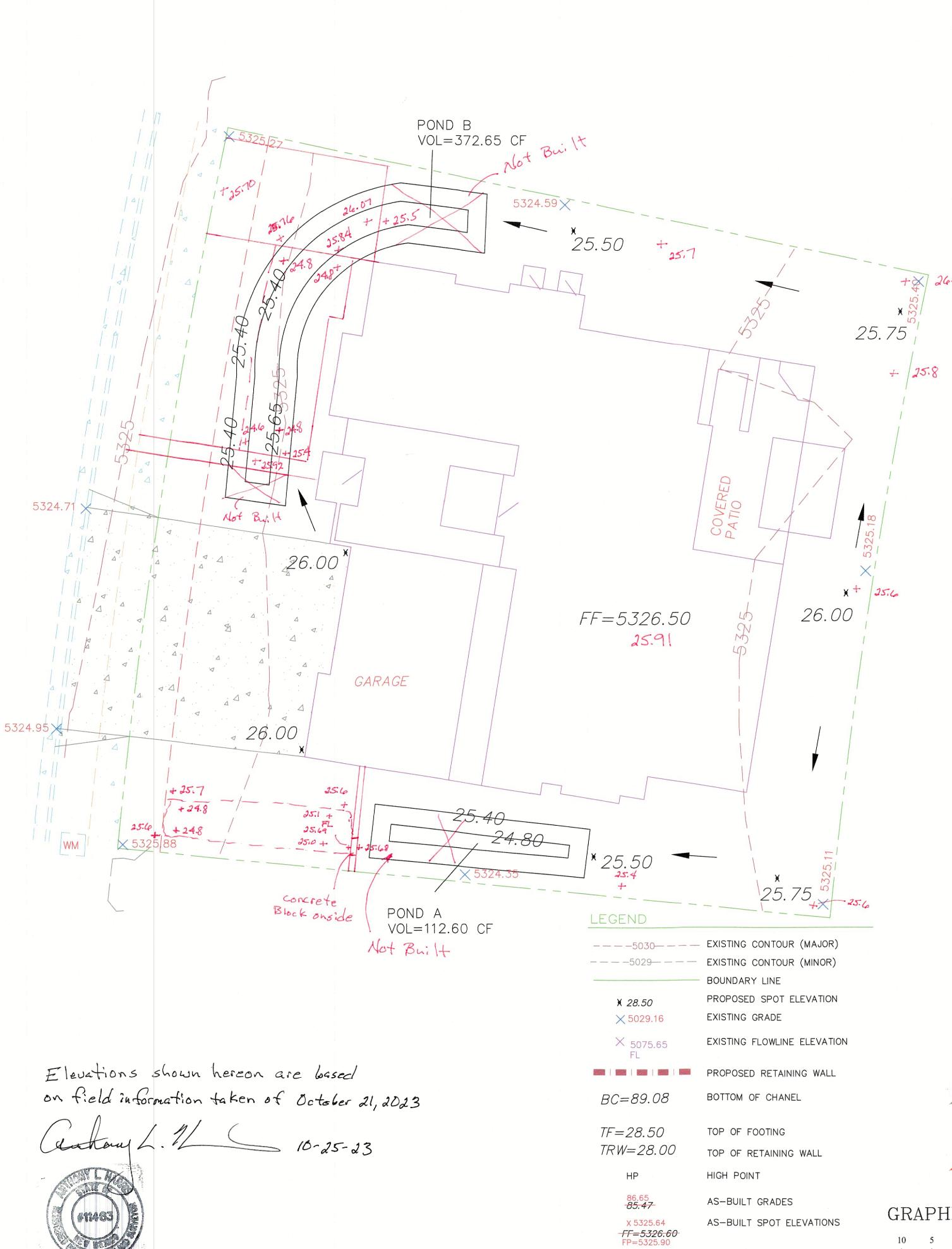
IMPERVIOUS AREA =7,102.55 SF 7462.55 7462.55 FIRST FLUSH VOL. REQUIRED. = 0.42" x  $\frac{7,102.55}{12} / 12 = \frac{248.58}{12}$  CF 261.19 CF

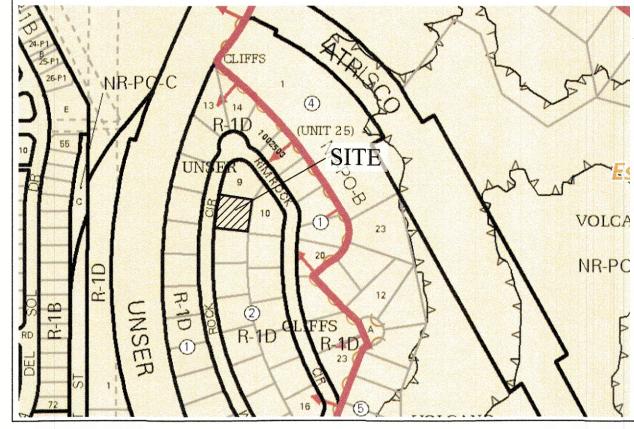
#### PONDING VOLUME CALCULATION

POND A: AREA @ ELEV. 25.40 = 302.04 SF AREA @ ELEV. 24.80 = 73.295 SF POND VOLUME=(302.04+73.29)/2\*0.60=112.60 CF

POND B: AREA @ ELEV. 25.40 = 724.55 SF AREA @ ELEV. 24.65 = 269.19 SF POND VOLUME=(724.55+269.19)/2\*75=372.65 CF

TOTAL PONDING VOLUME PROVIDED = 112.60+372.65 = 485.25 CF









FIRM MAP:

35001C0111G

LEGAL DESCRIPTION:

LOT 8, BLOCK 2, UNSER CLIFFS SUBDIVISION

ADDRESS: 6704 RIM ROCK CIR NW ALBUQUERQUE NM 87120

#### BENCHMARK

CITY BNCHMARK 17\_D10, ELEEVATION OF \_5325.068 FEET ABOVE SEA

#### EROSION CONTROL PLAN AND POLLUTION PREVENTION NOTES

- 1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
- 2. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT OUT OF EXISTING RIGHT-OF-WAY.
- 3. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL STORM
- RUNOFF ON SITE. 4. REPAIR OF DAMAGED FACILITIES AND CLEAN-UP OF SEDIMENT ACCUMULATION ON ADJACENT PROPERTIES AND IN PUBLIC
- FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR. 5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL ACCEPTANCE OF

## GENERAL NOTES:

1: CONTOUR INTERVAL IS HALF (1.00) FOOT.

- 2: ELEVATIONS ARE BASED ON CITY OF ALBUQUERQUE CONTROL STATION 17\_D10, HAVING AN ELEVATION OF \_5325.068 FEET ABOVE SEA LEVEL.

  3: UTILITIES SHOWN HEREON ARE IN THEIR APPROXIMATE LOCATION BASED ONLY ON ABOVE GROUND EVIDENCE FOUND IN THE FIELD AND AS-BUILT INFORMATION PROVIDED BY THE CLIENT. UTILITIES SHOWN HEREON, WHETHER INDICATED AS ABANDONED OR NOT, SHALL BE VERIFIED BY OTHERS FOR EXACT LOCATION AND / OR DEPTH PRIOR TO EXCAVATION OR DESIGN CON-
- 4: THIS IS NOT A BOUNDARY SURVEY, BEARINGS ARE ASSUMED, DISTANCES AND FOUND PROPERTY CORNERS ARE FOR INFORMATIONAL PURPOSES ONLY.
- 5: SLOPES ARE AT 3:1 MAXIMUM. 6: ADD 5300 TO ALL PROPOSED SPOT ELEVATIONS.



SCALE: 1"=10'

REZA AFAGHPOUR P.E. #11814

## SBS CONSTRUCTION AND ENGINEERING, LLC

7632 WILLIAM MOYERS AVE., NE ALBUQUERQUE, NEW MEXICO 87122

GRAPHIC SCALE 6704 RIM ROCK CIR NW **GRADING PLAN** 

DRAWING: DATE: DRAWN BY: SHEET# RIM ROCK GD.dwg SH-B 5/25/2023