# CITY OF ALBUQUERQUE

*Planning Department*
Brennon Williams, Director

*Mayor Timothy M. Keller*

November 3, 2020

Reza Afaghpor, P.E.
SBS Construction and Engineering, LLC
10209 Snowflake Ct. NW
Albuquerque, NM 87114

**RE: 2633 Floral Rd. NW**
**Revised Grading & Drainage Plan**
**Engineer's Certification Date: 11/03/20**
**Engineer's Stamp Date: 10/12/20**
**Hydrology File: H13D115**

Dear Mr. Afaghpor:

Based upon the information provided in your submittal received 10/15/2020, the Revised Grading and Drainage Plan are approved for Building Permit and Building Pad Certification for 2633 Floral Rd. NW. 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 approval in support of Permanent Release of Occupancy by Hydrology, Engineer Certification per the DPM checklist will be 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

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

# City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

**Project Title:** 2633 FLORAL ROAD., NW Building Permit #: _____ Hydrology File #: H13D115

DRB#: _____ EPC#: _____ Work Order#: _____

Legal Description: TRACT 250A1A, MRGCD MAP 35

City Address: 2633 FLORAL ROAD., NW, ALBUQUERQUE, NM 87104

**Applicant:** SBS CONSTRUCTION AND ENGINEEING, LLC Contact: SHAWN BIAZAR

Address: 10209 SNOWFLAKE CT., NW, ALBUQUERQUE, NM 87114

Phone#: (505) 804-5013 Fax#: (505) 897-4996 E-mail: AECLLC@AOL.COM

**Other Contact:** _____ Contact: _____

Address: _____

Phone#: _____ Fax#: _____ E-mail: _____

**TYPE OF DEVELOPMENT:** _____ PLAT (# of lots) __X__ RESIDENCE _____ DRB SITE ___ ADMIN SITE

IS THIS A RESUBMITTAL? _____ Yes __X__ No

**DEPARTMENT** _____ TRANSPORTATION __X__ HYDROLOGY/DRAINAGE

Check all that Apply:

**TYPE OF SUBMITTAL:**

____ ENGINEER/ARCHITECT CERTIFICATION
__X__ PAD CERTIFICATION
____ CONCEPTUAL G & D PLAN
____ GRADING PLAN
____ DRAINAGE REPORT
____ DRAINAGE MASTER PLAN
____ FLOODPLAIN DEVELOPMENT PERMIT APPLIC
____ ELEVATION CERTIFICATE
____ CLOMR/LOMR
____ TRAFFIC CIRCULATION LAYOUT (TCL)
____ TRAFFIC IMPACT STUDY (TIS)
____ STREET LIGHT LAYOUT
____ OTHER (SPECIFY) _____
____ PRE-DESIGN MEETING?

**TYPE OF APPROVAL/ACCEPTANCE SOUGHT:**

__X__ 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: 11-3-2020 By: SHAWN BIAZAR

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COA STAFF: ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____

**Location**
Tract 250A1A, MRGCD #35, is located at 2633 FLORAL, NW containing 0.4284 acre. See attached portion of Vicinity Map H-12-Z for exact location.

**Purpose**
The purpose of this drainage report is to present a grading and drainage solution for new buildings and improvement for Tract 250A1A, MRGCD #35.

**Existing Drainage Conditions**
This lot is very flat and drains south into Floral Road, Ave., NW and no other offsite flows enters this site. There are existing block walls all the way around this tract.

**Proposed Conditions and On-Site Drainage Management Plan**
There are existing block walls all three sides of this lot. We are porposing to retain all the developed flow minus the historical flow. The total volume requirement under this condition is 2,312.54 CF . We are proposing three ponds with total volume provided of 2,340.55 CF wich includes the first flush volume requirement of 260.84 CF.

***VOLUME CALCULATIONS FOR 10 DAY STORM***
(UNDER EXISTING CONDITIONS)

| *BASIN* | *AREA (SF)* | *AREA (AC)* | *AREA ($MI^2$)* |
|---|---|---|---|
| ON-SITE | 18,663.32 | 0.4285 | 0.000669 |

$E = \frac{EA(AA) + EB(AB) + EC(AC) + ED(AD)}{AA + AB + AC + AD}$

V-360 = E (AA + AB + AC + AD)

EA = 0.35
EB = 0.78
EC = 1.13
ED = 2.12

AA = 100.00%
AB = 0.00%
AC = 0.00%
AD = 0.00%

P-60 = 2.01
P-360 = 2.35
P-1440 = 2.75
P-10 Day = 3.95

**E = 0.5300 IN**
**V-360 = 0.0189 AC-FT**
**AD = 0.0000 AC**
**V-10 DAY = 0.0189 AC-FT**
**V-10 DAY= 824.30 CF**

***VOLUME CALCULATIONS FOR 10 DAY STORM***
(UNDER PROPOSED CONDITIONS)

| *BASIN* | *AREA (SF)* | *AREA (AC)* | *AREA ($MI^2$)* |
|---|---|---|---|
| ON-SITE | 18,663.32 | 0.4285 | 0.000669 |

$E = \frac{EA(AA) + EB(AB) + EC(AC) + ED(AD)}{AA + AB + AC + AD}$

V-360 = E (AA + AB + AC + AD)

EA = 0.35
EB = 0.78
EC = 1.13
ED = 2.12

AA = 0.00%
AB = 50.00%
AC = 9.00%
AD = 41.00%

P-60 = 2.01
P-360 = 2.35
P-1440 = 2.75
P-10 Day = 3.95

**E = 1.3609 IN**
**V-360 = 0.0486 AC-FT**
**AD = 0.1757 AC**
**V-10 DAY = 0.0720 AC-FT**
**V-10 DAY= 3,136.84 CF**

**V (REQUIRED) = 3,136.84 - 824.30 = 2,312.54 CF**

PONDING VOLUME REQUIREMENTS (90TH PERCENTILE/FIRST FLUSH)

VOLUME REQUIRED = 0.34 INCHES x IMPERVIOUS AREA =
(0.34/12 x 9,206.00) = 260.84 CF

PONDING VOLUME CALCULATION

TOTAL POND AREA PROVIDED =
PONDING CALCULATIONS:

POND A:
AREA @ ELEV. 60.10 = 2038.45 SF
AREA @ ELEV. 59.25 = 945.05 SF
POND VOLUME=(2038.45+945.05)/2*0.85=1267.99 CF

POND B:
AREA @ ELEV. 60.00 = 806.95 SF
AREA @ ELEV. 59.15= 463.66 SF
POND VOLUME=(531.85+87.95)/2*0.0.85=540.43 CF

POND C:
AREA @ ELEV. 60.00 = 564.84 SF
AREA @ ELEV. 59.15 = 922.55 SF
POND VOLUME=(922.55+564.84)/2*0.85=632.15 CF

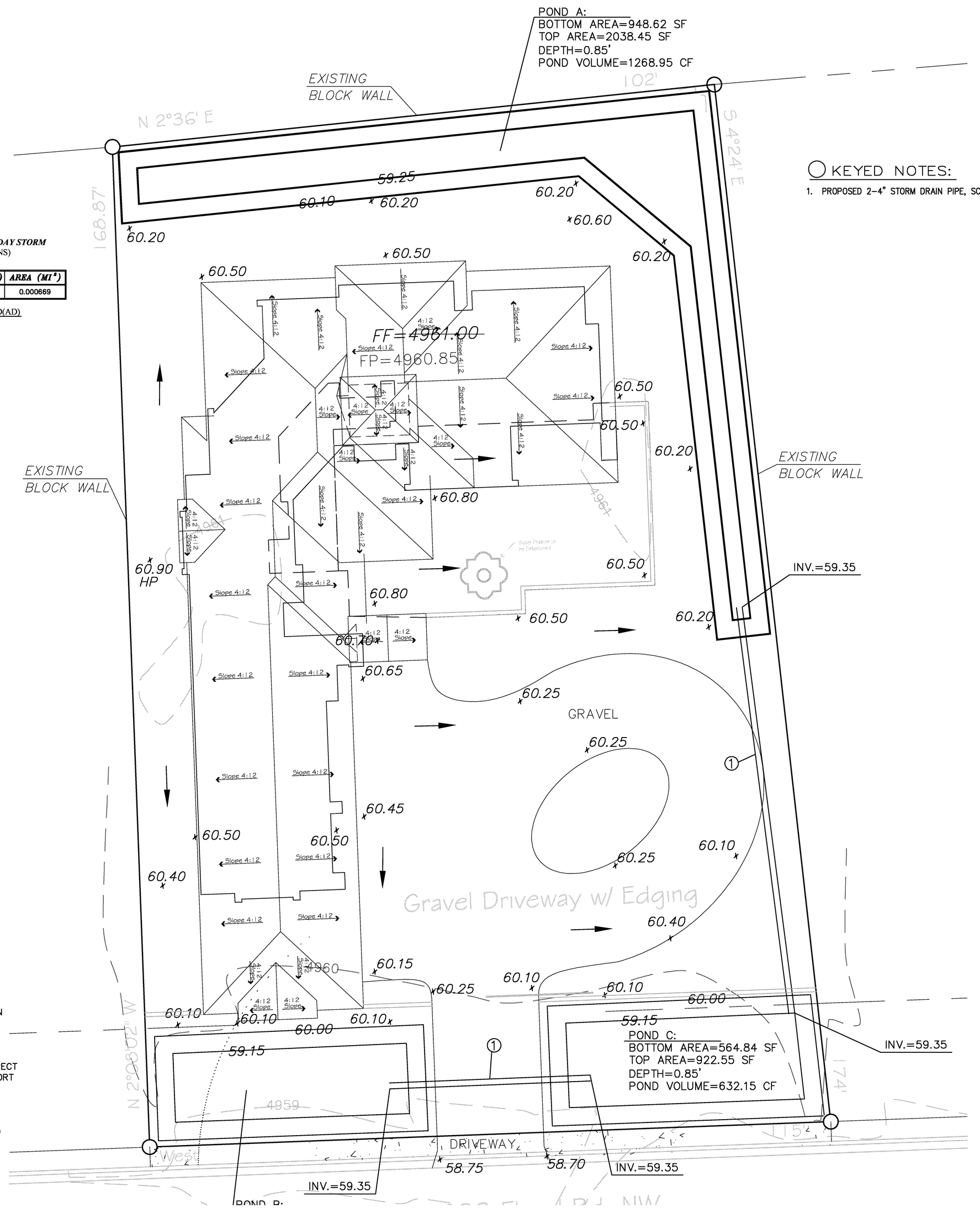
TOTAL PONDING VOLUME PROVIDED =
1267.99 + 540.43 + 632.15 = 2,440.56 CF

## DRAINAGE CERTIFICATION

I, REZA AFAGHPOUR , NMPE11814 OF SBS CONSTRUCTION AND ENGINEERING, LLBEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 10-02-2020 . THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY NMPS 9801 LEONARD MARTINEZ , OF SBS CONSTRUCTION AND ENGINEERING. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE 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 PAD CERTIFICATION .

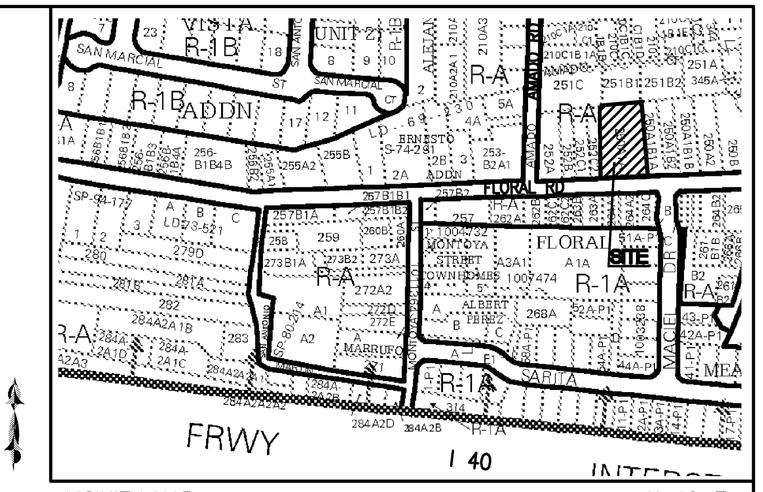
THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE ASPECTS OF THIS PROJECT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.

REZA AFAGHPOUR, NMPE 11814 — 11/3/2020 DATE

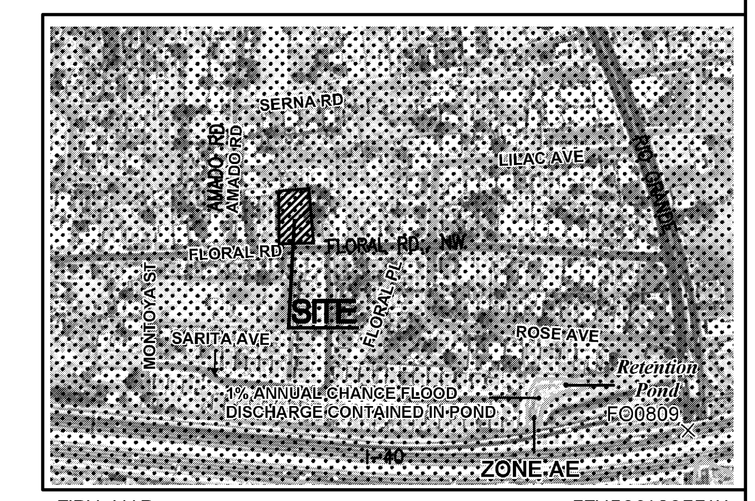



**KEYED NOTES:**

1. PROPOSED 2-4" STORM DRAIN PIPE, SCHEDULE 40.




VICINITY MAP: H-12-Z




FIRM MAP: 3FM5001C0331H

**LEGAL DESCRIPTION:**
Tract 250A1A, MRGCD #35

ADDRESS: 2633 FLORAL, NW

## LEGEND

| | |
|---|---|
| —— —5030— —— | EXISTING CONTOUR (MAJOR) |
| —— —5029— —— | EXISTING CONTOUR (MINOR) |
| ——— | BOUNDARY LINE |
| X 42.70 | PROPOSED SPOT ELEVATION |
| X 5029.16 | EXISTING GRADE |
| X 5075.65 FL | EXISTING FLOWLINE ELEVATION |
| ▬ ▮ ▬ ▮ | PROPOSED RETAINING WALL |
| BC=41.30 | BOTTOM OF CHANEL |
| TF=42.00 | TOP OF FOOTING |
| TRW=45.12 | TOP OF RETAINING WALL |
| HP | HIGH POINT |
| 42.40 ~~42.45~~ | AS-BUILT GRADES |
| 69.77 X ~~FF=5142.30~~ FP=5142.25 | AS-BUILT SPOT ELEVATIONS |

GRAPHIC SCALE
10 5 0 10
SCALE: 1"=10'

LAST REVISION: 2-2-2018

REZA AFAGHPOUR
P.E. #11814
10/12/2020


SBS CONSTRUCTION AND ENGINEERING, LLC
10209 SNOWFLAKE CT., NW
ALBUQUERQUE, NEW MEXICO 87114
(505)899-5570


# 2633 FLORAL ROAD, NW GRADING PLAN

| DRAWING: | DRAWN BY: | DATE: | SHEET # |
|---|---|---|---|
| 201803-GD.DWG | SH-B | 3-6-2018 | 1 |