CITY OF ALBUQUERQUE



Timothy M. Keller, Mayor

January 11, 2018

Shawn Biazar SBS Construction and Engineering, LLC 10209 Snowflake Ct. NW Albuquerque, NM, 87114

RE: Navin Properties LLC

1400 Britt SE

Request for Permanent C.O. – Accepted Engineer's Certification Date: 01/05/18

Engineer's Stamp Date: 3/12/17 Hydrology File: M21D005D

PO Box 1293 Dear Mr. Biazar:

Based on the Certification received 01/09/18 and site visit on 01/10/18, the site is acceptable

for a Permanent Certificate of Occupancy by Hydrology for 1400 Britt SE.

If you have any questions, please contact me at 924-3995 or rbrissette@cabq.gov.

NM 87103

Albuquerque

Sincerely,

www.cabq.gov

Renée C. Brissette, P.E. CFM Senior Engineer, Hydrology

Renée C. Brissette

Planning Department

Location

LOT 4, BLOCK 3, SANDIA RESEARCH PARK is located at 1400 Britt St., SE containing 1.0169 acre. See attached portion of Vicinity Map M-21-Z for exact location.

Purpose

The purpose of this drainage report is to present a grading and drainage solution for new building and improvements with this tract of land.

Existing Drainage Conditions

This site falls within Master Drainage Plan for the Sandi Research Park, Area D-1 (M-21/D5) prepared by Andrews, Asbury, & Roberts, Inc. Area D-1, discharging directly into streets at various locations which eventually drains directly into existing pond this development. No offiste flows enters this site. the runoff to the east drains east. Small portion of the site to the east drains east. The runoff to the north and to the south drain west to Birtt Stree.

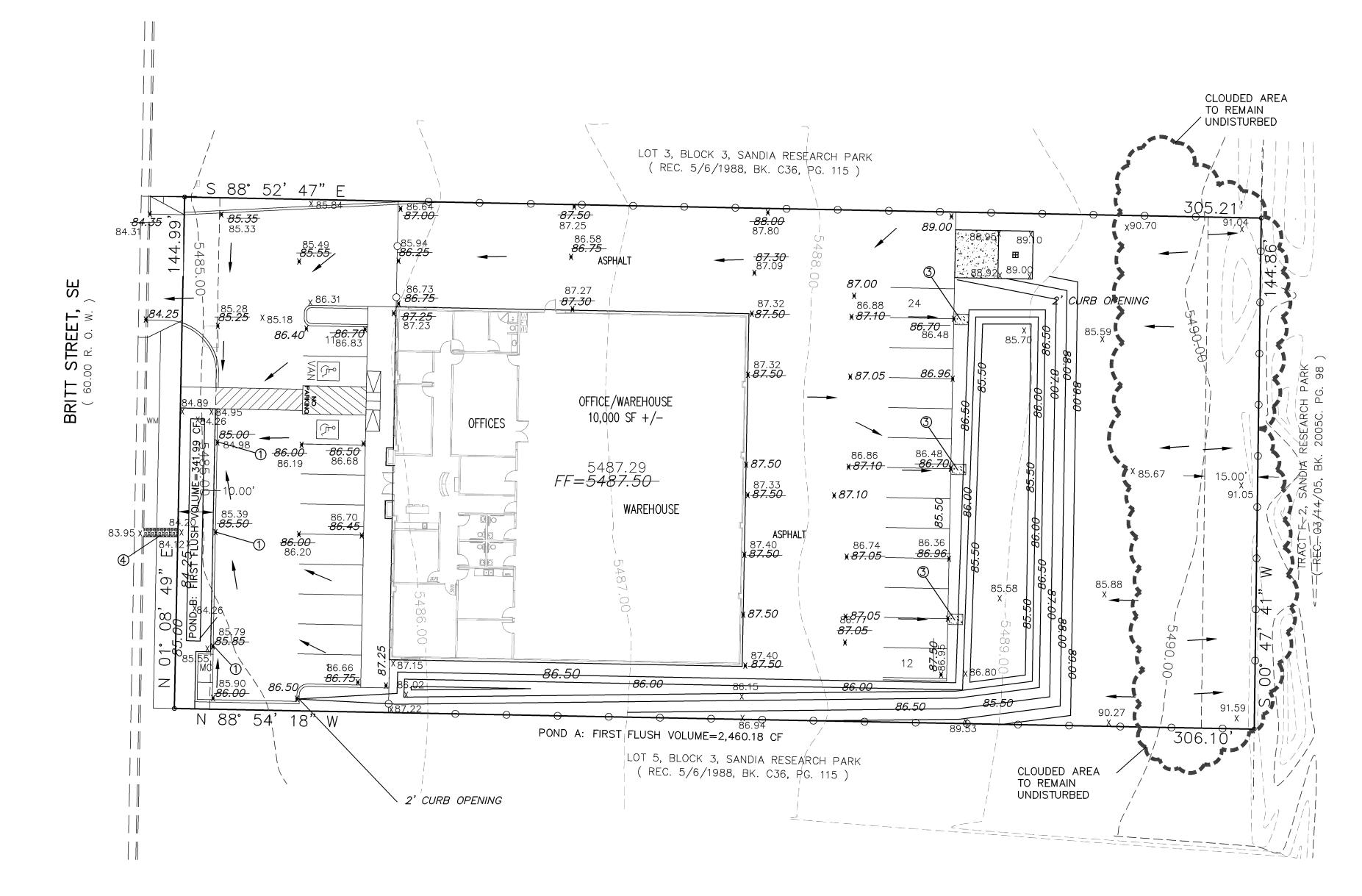
Proposed Conditions and On-Site Drainage Management Plan Since the Master Plan (File M-21/D5) is designed for complete discahrge, we are proposing to pond the 90th Percentile/First Flush requirement which is is 0.34 inches times the impervious area. Total retention volume provided within pond A and B (2,922.52 cf) exceeds the ponding volume requirement for First Flush (814.31 cf). Pond A overflows into parking lot and then to Pond B. From there the runoff drainsto Britt Street via Sidewalk culvert.

Calculations

FINISH

City of Albuquerque, Development Process Manuel, Section 22.2, Hydrology Section, was used for runoff calculations. See this plan for AHYMO input and Summary output files.

| * | 100-YEAR | 6-HR STORM (UNDER EXISITNG CONDITIONS) * |
|-------------|----------------------|--|
| ****** | ****** | ********** |
| START | | TIME=0.0 |
| RAINFALL | | TYPE=1 RAIN QUARTER=0.0 IN |
| | | RAIN ONE=2.14 IN RAIN SIX=2.60 IN |
| | | RAIN DAY=3.10 IN DT=0.03333 HR |
| * | | |
| COMPUTE | NM HYD | ID=1 HYD NO=100.0 AREA=0.001589 SQ MI |
| | | PER A=100.00 PER B=0.00 PER C=0.00 PER D=0.00 |
| **** | **** | TP=0.1333 HR MASS RAINFALL=-1 ************************************ |
| * | | |
| | , IU— IEAN ****** | 6-HR STORM (UNDER EXISTING CONDITIONS) * |
| START | | TIME=0.0 |
| RAINFALL | | TYPE=1 RAIN QUARTER=0.0 IN |
| | | RAIN ONE=1.43 IN RAIN SIX=1.73 IN |
| | | RAIN DAY=2.07 IN DT=0.03333 HR |
| * | | |
| COMPUTE | NM HYD | ID=1 HYD NO=110.0 AREA=0.001589 SQ MI |
| | | PER A=100.00 PER B=0.00 PER C=0.00 PER D=0.00 |
| | | TP=0.1333 HR MASS RAINFALL=-1 |
| | | ************************************** |
| * | | 6-HR STORM (UNDER PROPOSED CONDITIONS) |
| START | ***** | TIME=0.0 |
| RAINFALL | | TYPE=1 RAIN QUARTER=0.0 IN |
| NAINI ALL | | RAIN ONE=2.14 IN RAIN SIX=2.60 IN |
| | | RAIN DAY=3.10 IN DT=0.03333 HR |
| * | | NAMY DAT-0:10 MY DT-0:00000 TM |
| COMPUTE | NM HYD | ID=1 HYD NO=100.1 AREA=0.001589 SQ MI |
| | | PER A=0.00 PER B=25.00 PER C=10.00 PER D=65.00 |
| | | TP=0.1333 HR MASS RAINFALL=-1 |
| ****** | ****** | ********* |
| * ****** | | 6-HR STORM (UNDER PROPOSED CONDITIONS) |
| START | | TIME=0.0 |
| RAINFALL | | TYPE=1 RAIN QUARTER=0.0 IN |
| | | RAIN ONE=1.43 IN RAIN SIX=1.73 IN |
| | | RAIN DAY=2.07 IN DT=0.03333 HR |
| * | | |
| COMPUTE | NM HYD | ID=1 HYD NO=110.1 AREA=0.001589 SQ MI |
| | | PER A=0.00 PER B=25.00 PER C=10.00 PER D=65.00 |



AHYMO PROGRAM SUMMARY TABLE (AHYMO_97) — INPUT FILE = BRITT.TXT

– VERSION: 1997.02d

RUN DATE (MON/DAY/YR) =03/12/2017 USER NO.= AHYMO-I-9702c01000R31-AH

| | FROM DROGRAPH ID IFICATION NO. | TO ID NO. | AREA (SQ MI) | PEAK DISCHARGE (CFS) | RUNOFF VOLUME (AC-FT) | RUNOF (INCHES) (| TIME TO F PEAR (HOURS) | | |
|---|--------------------------------------|-----------------|-----------------|----------------------------|-----------------------------|---------------------|------------------------------|-----------------------------------|-----------------------|
| START RAINFALL TYPE= 1 COMPUTE NM HYD | 100.00 – | 1 | .00159 | 1.91 | .056 | .65514 | 1.533 | TIME= RAIN6= 1.880 PER IMP= | .00 2.600 .00 |
| START RAINFALL TYPE= 1 COMPUTE NM HYD | 110.00 — | 1 | .00159 | .57 | .016 | .18834 | 1.533 | TIME= RAIN6= .563 PER IMP= | .00 1.730 .00 |
| START RAINFALL TYPE= 1 COMPUTE NM HYD | 100.10 – | 1 | .00159 | 4.34 | .160 | 1.88584 | 1.500 | TIME= RAIN6= 4.270 PER IMP= | .00 2.600 65.00 |
| START RAINFALL TYPE= 1 COMPUTE NM HYD FINISH | 110.10 – | 1 | .00159 | 2.70 | .095 | 1.11772 | 1.500 | TIME= RAIN6= 2.653 PER IMP= | .00 1.730 65.00 |

POND VOLUME REQUIRED

TOTAL PONDING VOLUME REQUIRED (90TH PERCENTILE/FIRST FLUSH) = 0.34 INCHES x IMPERVIOUS AREA = (0.34/12 x 28,708.75) = 813.41 CF

POND CALCULATION

TOTAL POND AREA PROVIDED = PONDING CALCULATIONS:

POND A: AREA @ TOP = 3,578.92, AREA @ BOTTOM = 1,496.69

POND VOLUME = (3,578.92+1,496.69)/2*1.00 = 2,537.81 CF

POND B: AREA @ TOP = 778.27, AREA @ BOTTOM = 247.62 POND VOLUME = (778.27+247.62)/2*0.75 = 384.71 CF

TOTAL POND VOLUME PROVIDED = 2,537.81 + 384.71 = 2,922.52 CF

DRAINAGE CERTIFICATION

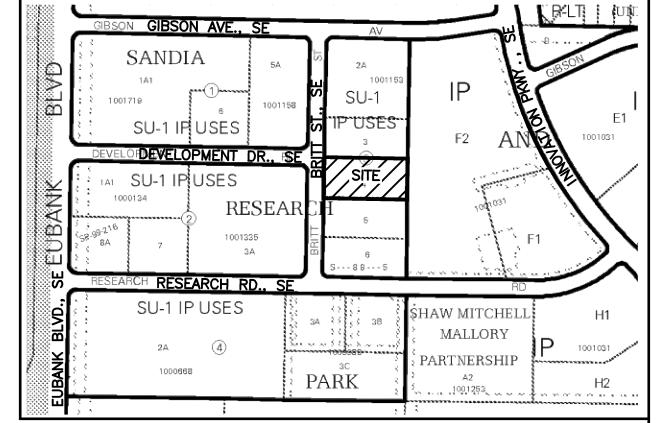
I, REZA AFAGHPOUR , NMPE 11814, OF SBS CONSTRUCTION AND ENGINEERING, LLC , HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 03-12-2017 . THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY NMPS 9801 (LEONARD MARTINEZ), OF SBS CONSTRUCTION AND ENGINEERING, LLC . 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 FINAL CERTIFICATE OF OCCUPANCY .

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 AGHPOUR, NMPE 11814

O NOTES:

- 1. PROVIDE 12" CURB OPENING
- 2. PROPOSED 2-4" STORM DRAIN PIPE
- 3. 3' WIDE CONCRETE RUNDOWN
- 4. 2. 24" SIDEWALK CULRVET PER CITY STD DWG 2236 (TACK WELD PLATE AT THE BOLT).



VICINITY MAP: M-21-Z

LEGAL DESCRIPTION:

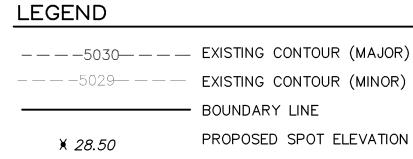
LOT 4, BLOCK 3, SANDIA RESEARCH PARK

CONTAINING 1.0169 ACRE ZONING: SU-1 FOR IP USES ADDRESS: 1400 BRITT ST., SE

GENERAL NOTES:

1: CONTOUR INTERVAL IS HALF (1.00) FOOT.

- 2: ELEVATIONS ARE BASED ON CITY OF ALBUQUERQUE CONTROL STATION LSS_302, HAVING AN ELEVATION OF <u>5444.139</u> 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 <u>NOT</u> A BOUNDARY SURVEY, BEARINGS ARE ASSUMED, DISTANCES AND FOUND PROPERTY CORNERS ARE FOR <u>INFORMATIONAL PURPOSES ONLY.</u>
- 5: SLOPES ARE AT 3:1 MAXIMUM.



 \times 5029.16 EXISTING GRADE

× 5075.65 EXISTING FLOWLINE ELEVATION

PROPOSED RETAINING WALL

BC=89.08 BOTTOM OF CHANEL

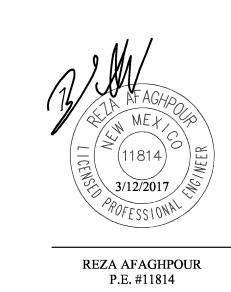
TC=28.50 TOP OF CURB TOP OF ASPHALT

x 90.27

HP HIGH POINT

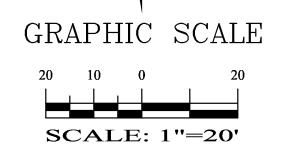
87.40
87.50
AS-BUILT GRADES

AS-BUILT SPOT ELEVATIONS



SBS CONSTRUCTION AND ENGINEERING, LLC

> 10209 SNOWFLAKE CT., NW ALBUQUERQUE, NEW MEXICO 87114 (505)899-5570



NAVIN PROPERTIES, LLC 1400 BRITT ST., SE CONCEPTUAL GRADING PLAN

CONCEPTUAL GRADING PLAN

DRAWING: DRAWN BY: DATE: SHEET #

201632-GD.DWG SH-B 3/12/2017 3 OF 4