CITY OF ALBUQUERQUE



June 23, 2016

Reza Afaghpour, PE SBS Construction and Engineering, LLC 10209 Snowflake Ct NW Albuquerque, NM 87114

Re:

Commercial Apartment Building Phase 1

1120 Griegos Rd NW

Request Permanent C.O. - Accepted

Engineer's Stamp dated: 7-8-15 (F14D058)

Certification dated: 6-9-16

Dear Mr. Afaghpour,

PO Box 1293

Based on the Certification received 6/9/2016, the site is acceptable for release of Certificate of Occupancy by Hydrology.

Albuquerque

If you have any questions, you can contact me at 924-3686 or Totten Elliott at 924-3982.

Sincerely,

New Mexico 87103

Abiel Carrillo, P.E.

www.cabq.gov

Principal Engineer, Planning Department

Development and Review Services

TE/AC

C: email,

Cordova, Camille C.; Miranda, Rachel; Sandoval, Darlene M.; Blocker,

Lois

NOTICE TO CONTRACTORS 1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY 2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUOUEROUE INTERIM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. 3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL FOR LOCATING SERVICE, 260-1990 OR "811", FOR LOCATION 4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY. 5. BACKFILL COMPACTION SHALL BE ACCORDING TO TRAFFIC/STREET USE. 6. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED. 7. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS. APPROVALS INSPECTOR Northerly Portion of Lots 40 and 41, entire lots 42, and 43, Rossiter Addition, contains +/-1.4792 acres and is loated at southeast corner of 12th Street and Griegos Rd. N.W. See attached portion of the Vicinity Map for exact location. The purpose of this drainage report is to present a grading and drainage solution for the propsed building shown on the grading plan. **Existing Drainage Conditions** There is undeveloped. This site is fairly flat, and it drains to Griegos Road and 12th Street N.W. No offiste runoff enters the site. Based on the FIRM Map 35001C0119G (revised September 26, 2008) the site does not fall within a 100-year floodplain. Proposed Conditions and On-Site Drainage Management Plan Only 74% of the proposed Lot will be developed at this time and remaining portion of the site to the east will remain at its current conditions. The runoff generated from this site will be partly retained on-site. Several Ponds (A through N) are designed to hold 4,748.24 cf. When the ponds exceed their capacity the runoff will overflow into the parking lot and then to Griegos public street via the entrance. The allowable discharge in the Valley is 2.75 cf/acre meaning a retention volume requirement of 0.50 inches times the area (4,748.50 cf). The 90th Percentile/First Flush ponding requirement is 0.34 inches times the impervious area (1,023.55 cf). Total retention volume provided (4,748.50 cf) far exceeds the ponding requirement in the Valley (1,980.55 cf) and First Flush (1,023.55 cf). 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.

+ 7015 0		
* ZONE 2 *********	************	
	6-HR STORM (UNDER EXISITING CONDITIONS)	*
START RAINFALL	TIME=0.0 TYPE=1 RAIN QUARTER=0.0 IN RAIN ONE=2.01 IN RAIN SIX=2.35 IN RAIN DAY=2.75 IN DT=0.03333 HR	
* ON-SITE COMPUTE NM HYD	ID=1 HYD NO=100.0 AREA=0.001705 SQ MI PER A=0.00 PER B=30.00 PER C=30.00 PER TP=0.1333 HR MASS RAINFALL=-1	D=40.00
* 10-YEAR,	6-HR STORM (UNDER EXISTING CONDITIONS)	*
START RAINFALL	**************************************	
* ON-SITE COMPUTE NM HYD	ID=1 HYD NO=110.0 AREA=0.001705 SQ MI PER A=0.00 PER B=30.00 PER C=30.00 PER TP=0.1333 HR MASS RAINFALL=-1	D=40.00

	6-HR STORM (UNDER PROPOSED CONDITIONS)	*
START RAINFALL	TIME=0.0 TYPE=1 RAIN QUARTER=0.0 IN RAIN ONE=2.01 IN RAIN SIX=2.35 IN RAIN DAY=2.75 IN DT=0.03333 HR	
* ON-SITE COMPUTE NM HYD	ID=1 HYD NO=100.1 AREA=0.001705 SQ MI PER A=0.00 PER B=10.00 PER C=14.00 PER TP=0.1333 HR MASS RAINFALL=-1	D=76.00

	6-HR STORM (UNDER PROPOSED CONDITIONS)	*

TIME=0.0

TYPE=1 RAIN QUARTER=0.0 IN
RAIN ONE=1.34 IN RAIN SIX=1.57 IN
RAIN DAY=1.83 IN DT=0.03333 HR

TP=0.1333 HR MASS RAINFALL=-1

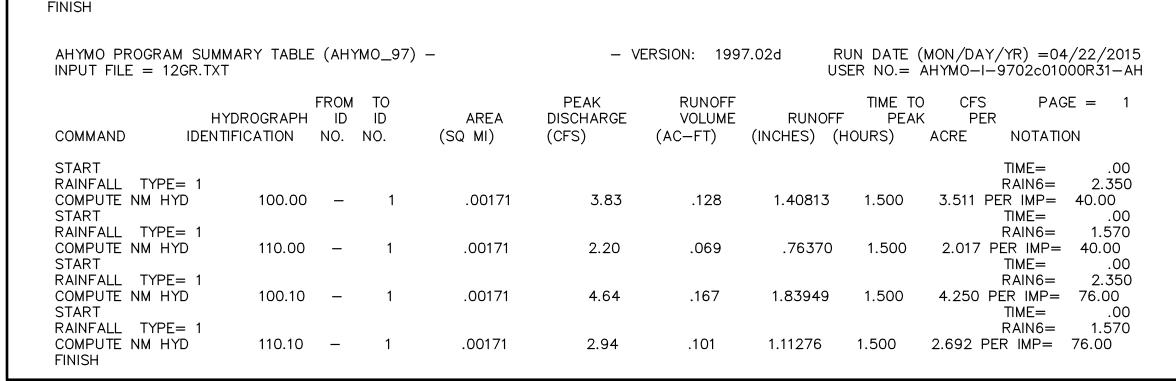
ID=1 HYD NO=110.1 AREA=0.001705 SQ MI

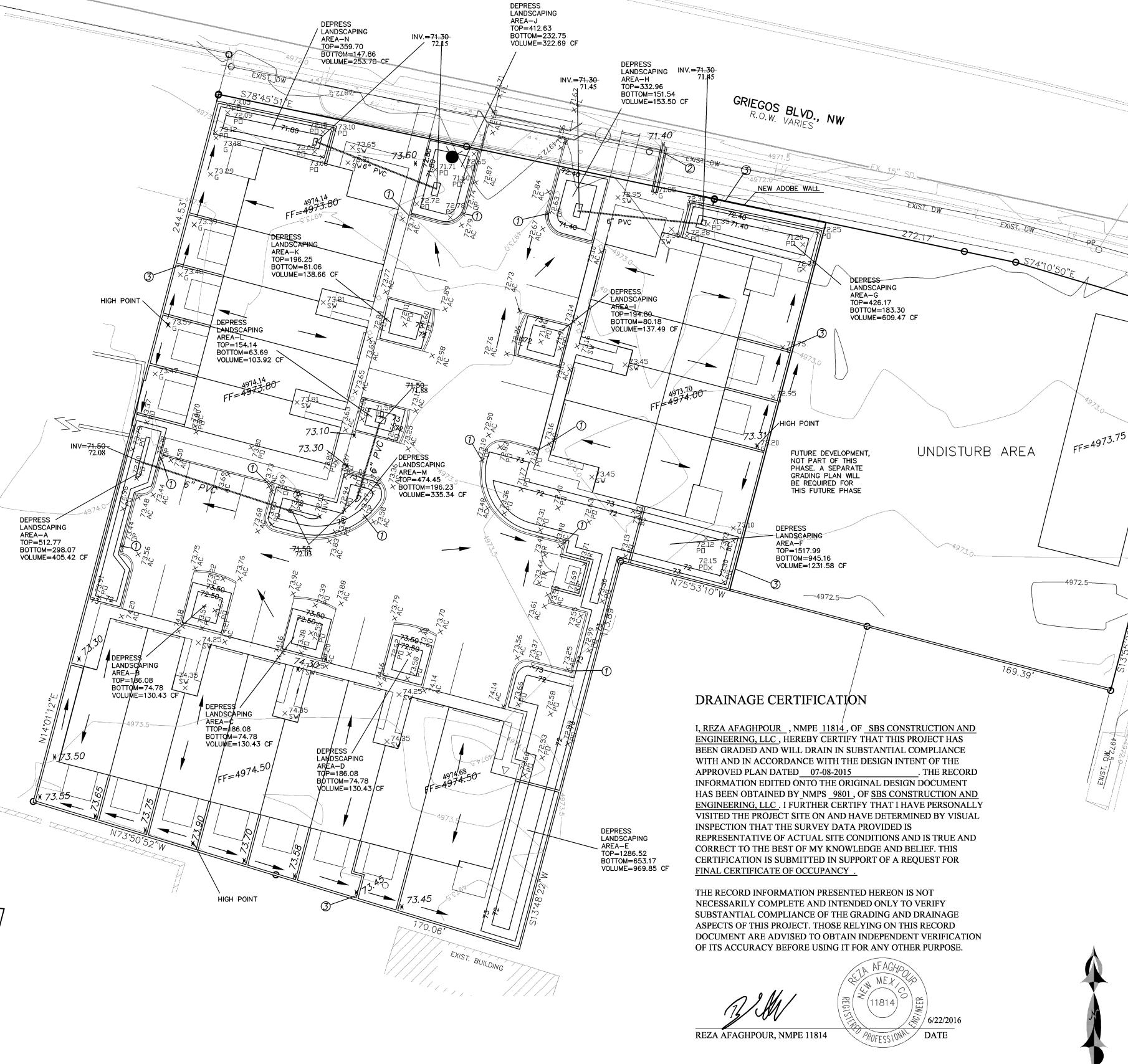
PER A=0.00 PER B=10.00 PER C=14.00 PER D=76.00

RAINFALL

* ON-SITE

COMPUTE NM HYD





O NOTES:

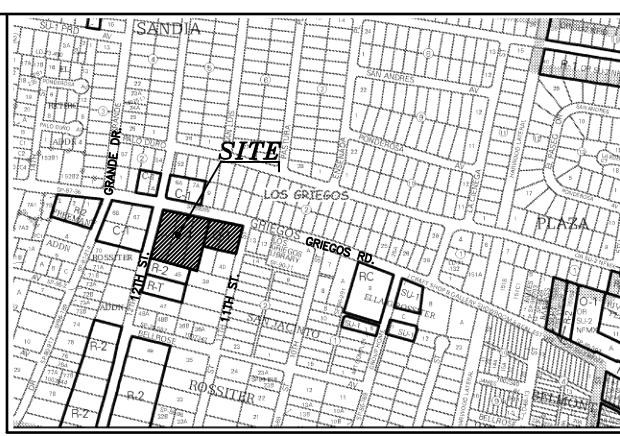
- 1. PROVIDE 12" CURB OPENING
- 2. 12" SIDEWALK CULRVET PER CITY STD DWG 2236 (TACK WELD PLATE AT THE BOLT), 2' PAST PL.
- 3. 6" WALL OPENING (OR TURN TWO BLOCKS) AT EACH WALL BUILD #4 REBAR AT 3" ON CENTER, TYPICAL, 3" ABOVE GROUND.

POND CALCULATION

TOTAL POND AREA PROVIDED = POND A + B + C + D + E + F + G + H + I + J + K + L + M + N = 4,748.24 CF

TOTAL PONDING VOLUME REQUIRED (VALLEY)= 0.5 INCHES x AREA = $(0.5/12 \times 47,533.16)$ = 1,980.55 CF

TOTAL PONDING VOLUME REQUIRED (90TH PERCENTILE/FIRST FLUSH) = 0.34 IMCHES x IMPERVIOUS AREA = $(0.34/12 \times 36,125.2)$ = 1,023.55 CF



VICINITY MAP:

F-14-Z

LEGAL DESCRIPTION: LOT 43-A. ROSSITER ADDITION

CONTAINING 64,435.84 S.F. (1.4792 ACRE) ZONING: C-1 AND O-1 USES

GENERAL NOTES:

- 1: CONTOUR INTERVAL IS HALF (0.50) FOOT.
- 2: ELEVATIONS ARE BASED ON CITY OF ALBUQUERQUE CONTROL STATION LSS_206, HAVING AN ELEVATION OF <u>4976.652</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—SIDERATIONS
- 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.

LEGEND

NOTICE TO CONTRACTORS

1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY.

2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION,

3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.

4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.

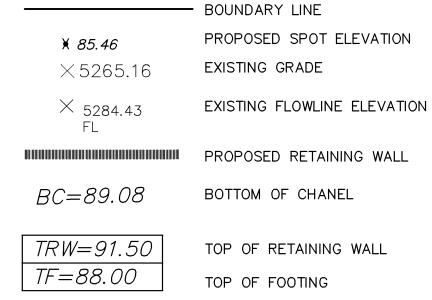
5. BACKFILL COMPACTION SHALL BE ACCORDING TO TRAFFIC/STREET USE.

6. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.

EXISTING CONTOUR (MAJOR)

EXISTING CONTOUR (MINOR)

7. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS.



HIGH POINT

× 72.75 AS-BUILT GRADES
G (GR□UND)
× 72.75

X 72.75 PD (PDND) X 72.75 AC (CDNC./ASPH.)

7/8/2015 /

REZA AFAGHPOUR

P.E. #11814

GRAPHIC SCALE

SCALE: 1"=20'

SBS CONSTRUCTION AND ENGINEERING, LLC

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

	17 UNIT TOWNHOUSE DEVELOPMENT GRADING AND DRAINAGE PLAN					
	DRAWING:	DRAWN BY:	DATE:	SHEET#		
	201418-GR.DWG	SH-B	07-27-2014	C102		