CITY OF ALBUQUERQUE

Planning Department
Brennon Williams, Director

Mayor Timothy M. Keller

February 13, 2020

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

RE: 3308 4th Street Apartment Building
Permanent C.O. – Accepted
Engineer's Certification Date: 01/30/20
Engineer's Stamp Date: 10/22/18
Hydrology File: H14D109

Dear Mr. Biazar:

Based on the Certification received 02/12/20 and site visit on 02/13/20, this certification is approved in support of Permanent Release of Occupancy by Hydrology.

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: 3308 4th Street Apartments Building Building Permit #: _____ Hydrology File #: H14D109

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

Legal Description: LOT 1, BLOCK 2, CENTURY ADDITION

City Address: 3308 4th Street, NW

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) _____ RESIDENCE _____ DRB SITE X ADMIN SITE

IS THIS A RESUBMITTAL? X Yes _____ No

DEPARTMENT _____ TRANSPORTATION X HYDROLOGY/DRAINAGE

Check all that Apply:

TYPE OF SUBMITTAL:

X ENGINEER/ARCHITECT CERTIFICATION
____ 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:

____ 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
X GRADING/ PAD CERTIFICATION
____ WORK ORDER APPROVAL
____ CLOMR/LOMR
____ FLOODPLAIN DEVELOPMENT PERMIT
____ OTHER (SPECIFY) _____

DATE SUBMITTED: 1-30-2020 By: SHAWN BIAZAR

COA STAFF: ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____

DRAINAGE MANAGEMENT PLAN

Location
LOT 1, BLOCK 2, CENTURY ADDITION is located at 3308 4th Street., NW, just south of Alameda drain. This site contains 0.7090 acre. See attached portion of Vicinity Map G-14-Z for exact location.

Purpose
The purpose of this drainage report is to present a conceptual grading and drainage solution for the proposed commercial buildings. We are requesting site plan for building permit approval.

Existing Site/Drainage Conditions
This site contained of existing buildings, concrete pads, asphalt and some gravel. All the existing structures and asphalt and concrete pads have been removed. this site is fairly flat. Most of the site was draining into 4th., NW. No offiste runoff impacts this site.

Proposed Conditions and On-Site Drainage Management Plan
This site is located within zone 2 and in the north valley. We are propsing a building with ground level and underground parking structure. This site will pond most of water and discharege at a control rate. According to grading plan file #G14-D086, the north valley rate of discharge is 2.75 CFS per acre. This site contains 0.7090 acre (30,886 sf). Therefore our rate of discharge will be at 1.95 CFS (0.7090 * 2.75). This site will generate 3.22 CFS and the difference between the developed flow (3.22 CFS) and allowable discharge (1.95 CFS) will be 1.27 CFS (3.22-1.95). therefore the amonth of the ponding required will be 2,095.51 CF.

There are four proposed pond for this site. One is at the east side of the property and three smaller ponds along south property line, see grading plan for location. All the water except the some of the proposed driveway which will be draining directly into 4th street, will drain into the ponds in the east and south. These ponds will be connected via 2-4" storm drain pipe. the water eventually will drain into 4th Street via concrete channel. The total volume ponding provided is 3,396.14 CF which is greater than required 2,095.51 CF.

PONDING VOLUME REQUIRED

TOTAL AREA = 30,688 SF = 0.7090 ACRE

ZONE 2 LAND TREATMENT TABLE A-8: B=0.78 AND D=2.12
B=2,000 SF/0.0459 AC D=28,388 SF/0.6631 AC

VOL (100-yr/6hr) = (2000*0.78)/12 + 28388*2.12)/12 = 5,233.19 CF

Q (100-yr/6 hr) (USING TABLE A-9, ZONE 2)=(2.28*0.0459)+(4.7*0.6631)=3.22 CFS

ALLOWABLE RUNOFF = 2.75/AC * 0.7090 AC = 1.95 CFS

ADDITIONAL RUNOFF = 3.22-1.95 =1.27 CFS

PONDING VOLUME REQUIRED = 5,233.19/3.22 * 1.27 = 2,095.51 CF

POND VOLUME REQUIRED FOR FIRST FLUSH

0.34 INCHES x IMPERVIOUS AREA = (0.34/12 x 30,688) = 869.49 CF
THIS VOLUME IS PART OF THE PONDING PROVIDED.

PONDING AREA PROVIDED

TOTAL POND AREA PROVIDED = PONDING CALCULATIONS:

POND A: AREA @ TOP = 327.27, WITH 3.00' DEPTH
POND VOLUME = (327.27*3.00') = 711.50 CF

POND B: AREA @ TOP = 323.95, WITH 1.75' DEPTH
POND VOLUME = (323.95*1.75') = 566.91 CF

POND C: AREA @ TOP = 323.95, WITH 1.75' DEPTH
POND VOLUME = (323.95*1.75') = 566.91 CF

POND D: AREA @ TOP = 866.00, WITH 1.75' DEPTH
POND VOLUME = (866.00*1.75') = 1,550.50 CF

TOTAL POND VOLUME PROVIDED = (711.50+566.91+566.91+1550.50)= 3,396.14 CF

SIDEWALK CULVERT/CONCRETE CHANNEL AND POND OPPENING CALCULATIONS

24" Sidewalk Culvert 8" High Calculation Using Weir Equation

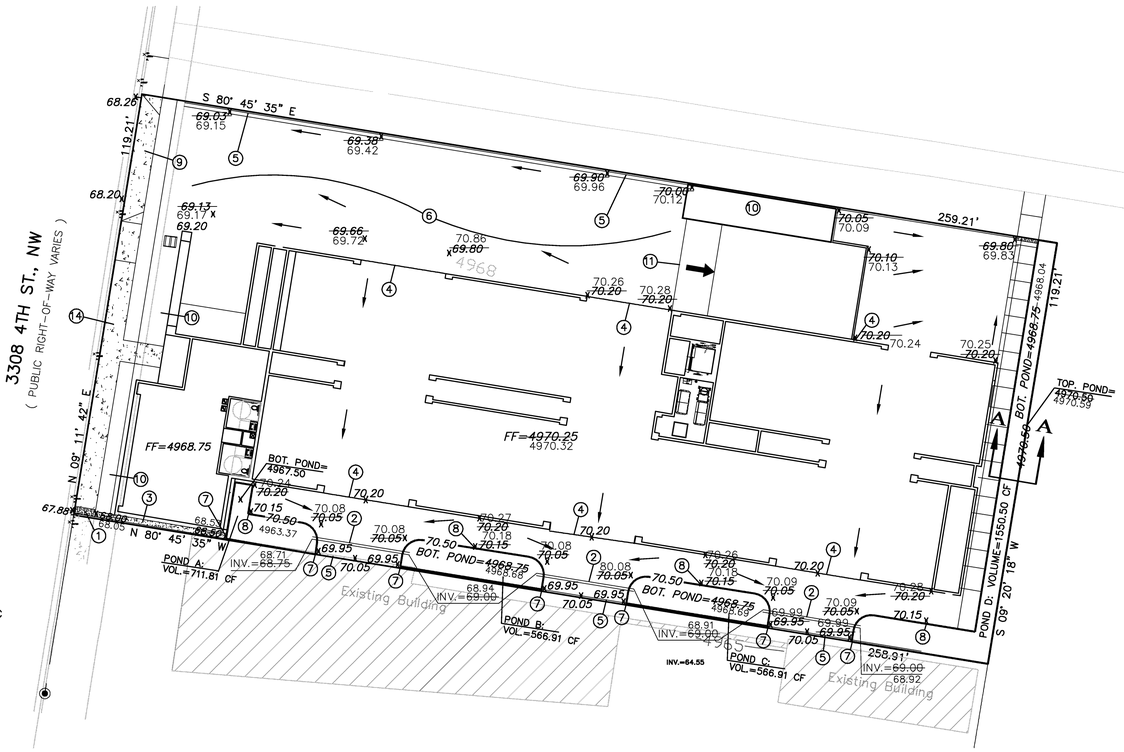
Q=CLH^1.5
H = 0.67' , C = 2.95, L=24" (2.00')

2.95*2*(.67)^1.50 = 2.958*2*0.548418636
Q = 3.236 cfs

18" Wide With 8" High Concrete Channel Using Weir Equation

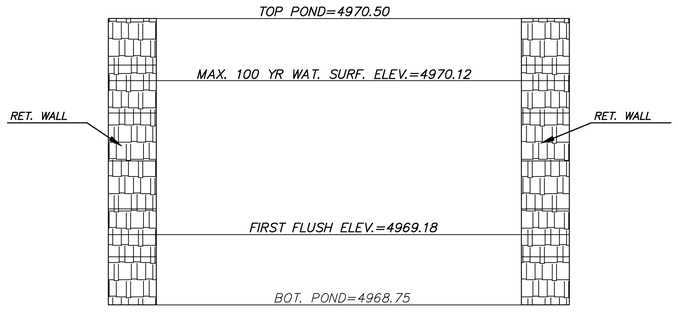
Q=CLH^1.5
H = 0.67' , C = 2.95, L=18" (1.50')

2.95*1.50(.67)^1.50 = 2.958*1.50*0.548418636
Q = 2.427 cfs

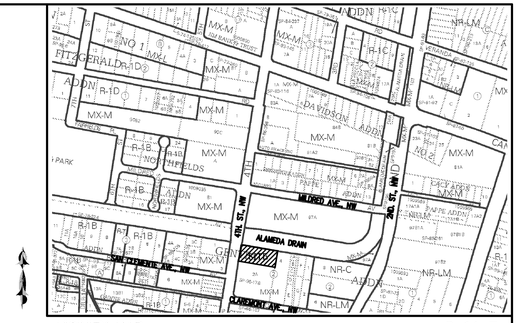


NOTES:

1. 24" SIDEWALK CULRVET PER CITY STD DWG 2236 (TACK WELD PLATE AT THE BOLT).
2. INSTALL 2-4" STORM DRAIN PIPE, SDR 35.
3. 18" WIDE CONC. CHANNEL WITH 8" WALL.
4. BUILDING ENVELOPE.
5. INSTALL MEDIAN CURB & GUTTER.
6. ASPHALT PAVING AREA.
7. PROVIDE 18" OPPENING.
8. PROVIDE 12" CURB OPPENING.
9. NEW DRIVE WAY.
10. LANDSCAPING AREA.
11. TO LOWER PARKING LEVEL.
12. LANDSCAPING AREA.
13. TO LOWER PARKING LEVEL.
14. REMOVE AND REPLACE EXISTING SIDEWALK.



SECTION A-A, POND B,C,D
NTS



VICINITY MAP: G-14-Z

LEGAL DESCRIPTION:

LOT 1, BLOCK 2, CENTURY ADDITION
CONTAINING: 30,883.00 SF (0.7090 ACRE)
ZONING: SU-2 NFMX

GENERAL NOTES:

1: CONTOUR INTERVAL IS HALF (1.00) FOOT.
2: ELEVATIONS ARE BASED ON CITY OF ALBUQUERQUE CONTROL STATION SMW-, HAVING AN ELEVATION OF 4969.728 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 CONSIDERATIONS.
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.

LEGEND

5030	EXISTING CONTOUR (MAJOR)
	EXISTING CONTOUR (MINOR)
	BOUNDARY LINE
X 28.50	PROPOSED SPOT ELEVATION
X 5029.16	EXISTING GRADE
X 5028.65 FL	EXISTING FLOWLINE ELEVATION
	PROPOSED RETAINING WALL
BC=89.08	BOTTOM OF CHANEL
TC=28.50	TOP OF CURB
TA=28.00	TOP OF ASPHALT
HP	HIGH POINT
86.65 / ~~85.47~~	AS-BUILT GRADES
X 86.65	AS-BUILT SPOT ELEVATIONS

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 10-22-2018 . 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 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 AFAGHPOUR, NMPE 11814 — 1/30/2020 DATE

REZA AFAGHPOUR NEW MEXICO 11814 REGISTERED PROFESSIONAL ENGINEER

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, 1985.
3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL FOR LOCATING SERVICE, 260-1990 OR "811", 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.
7. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS.

APPROVALS	NAME	DATE
INSPECTOR		

GRAPHIC SCALE
20 10 0 20
SCALE: 1"=20'

REZA AFAGHPOUR NEW MEXICO 11814 LICENSED PROFESSIONAL ENGINEER 10-22-2018

REZA AFAGHPOUR
P.E. #11814

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

3308 4th SREET NW
GRADING AND DRAINAGE PLAN

DRAWING:	DRAWN BY:	DATE:	SHEET #
201618-GR.DWG	SH-B	09-14-207	C 101

LAST REVISION: 09-14-2017