

# CITY OF ALBUQUERQUE



Timothy M. Keller, Mayor

April 13, 2018

Phillip W. Clark, PE  
Clark Consulting Engineers  
19 Ryan Rd  
Edgewood, NM 87015

**RE: Olague Warehouse – 1212 3rd St. NW  
Grading Plan  
Engineer's Stamp Date: 03/26/18  
Hydrology File: J14D184**

Dear Mr. Clark:

PO Box 1293

Based upon the information provided in your revised submittal received 04/06/2018, the Grading Plan is approved for Building Permit.

Albuquerque

Please attach a copy of this approved plan in the construction sets for Building Permit processing. Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

NM 87103

Please provide a Drainage Covenant per Chapter 17 of the DPM for the retention ponds prior to Certificate of Occupancy. Please submit this on the 4th floor of Plaza de Sol. A \$25 fee will be required.

www.cabq.gov

If you have any questions, please contact me at 924-3995 or [rbrissette@cabq.gov](mailto:rbrissette@cabq.gov).

Sincerely,

*Renée C. Brissette*

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



# City of Albuquerque

Planning Department

Development & Building Services Division

## DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 1/2016)

**Project Title:** \_\_\_\_\_ **Building Permit #:** \_\_\_\_\_ **Hydrology File #:** \_\_\_\_\_

**DRB#:** \_\_\_\_\_ **EPC#:** \_\_\_\_\_ **Work Order#:** \_\_\_\_\_

**Legal Description:** \_\_\_\_\_

**City Address:** \_\_\_\_\_

**Applicant:** CLARK CONSULTING ENGINEERS **Contact:** Philip Clark

**Address:** 19 Ryan Road Edgewood, NM 87015

**Phone#:** 281.2444 **Fax#:** \_\_\_\_\_ **E-mail:** CCEalbq@aol.com

**Other Contact:** \_\_\_\_\_ **Contact:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**Phone#:** \_\_\_\_\_ **Fax#:** \_\_\_\_\_ **E-mail:** \_\_\_\_\_

Check all that Apply:

**DEPARTMENT:**

- HYDROLOGY/ DRAINAGE
- TRAFFIC/ TRANSPORTATION
- MS4/ EROSION & SEDIMENT CONTROL

**TYPE OF SUBMITTAL:**

- AS-BUILT CERTIFICATION
- CONCEPTUAL G & D PLAN
- GRADING PLAN
- DRAINAGE MASTER PLAN
- DRAINAGE REPORT
- CLOMR/LOMR
- TRAFFIC CIRCULATION LAYOUT (TCL)
- TRAFFIC IMPACT STUDY (TIS)
- NEIGHBORHOOD IMPACT ASSESMENT (NIA)
- EROSION & SEDIMENT CONTROL PLAN (ESC)
- OTHER (SPECIFY) \_\_\_\_\_

**TYPE OF APPROVAL/ACCEPTANCE SOUGHT:**

- BUILDING PERMIT APPROVAL
- CERTIFICATE OF OCCUPANCY
- GRADING/ESC PERMIT APPROVAL
- 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
- SO-19 APPROVAL
- PAVING PERMIT APPROVAL
- GRADING/ PAD CERTIFICATION
- WORK ORDER APPROVAL
- CLOMR/LOMR

**PRE-DESIGN MEETING?**

OTHER (SPECIFY) \_\_\_\_\_

IS THIS A RESUBMITTAL?:  Yes  No

**APPROVED PLAN**

**DATE SUBMITTED:** \_\_\_\_\_ **By:** \_\_\_\_\_

**COA STAFF:** \_\_\_\_\_ **ELECTRONIC SUBMITTAL RECEIVED:** \_\_\_\_\_

**FEE RECEIVED:** \_\_\_\_\_

## GRADING & DRAINAGE PLAN

THE WAREHOUSE-STORAGE PROJECT IS LOCATED IN THE NE PART OF A 10-ACRE TRACT WITHIN THE CORE AREA OF ALBUQUERQUE, NEW MEXICO. THE DRAINAGE & GRADING SCHEME HEREON IS IN COMPLIANCE WITH THE CITY FLOOD HAZARD ORDINANCE AND THE CITY STORM DRAINAGE ORDINANCE. THE PLAN IS REQUIRED IN ORDER TO FACILITATE THE OWNER'S REQUEST FOR BUILDING PERMIT. THE PLAN SHOWS:

1. EXISTING CONTOURS, AND SPOT ELEVATIONS AND EXISTING DRAINAGE PATTERNS AND SYSTEMS IMPROVEMENTS, INCLUDING EXISTING SIDEWALK AND STREET IMPROVEMENTS.
2. PROPOSED IMPROVEMENTS: 1344 SQUARE FOOT METAL WAREHOUSE STORAGE BUILDING, PARKING, GRAVEL DRIVERS, NEW GRADE ELEVATIONS, ADA ACCESS AND LANDSCAPING.
3. CONTINUITY BETWEEN EXISTING AND PROPOSED ELEVATIONS.
4. QUANTIFICATION AND ACCEPTANCE OF ALL ON-SITE FLOWS WHICH CONTRIBUTE TO THE DEVELOPED FLOWS GENERATED BY THE IMPROVEMENTS.

THE PURPOSE OF THE PLAN IS TO ESTABLISH CRITERIA FOR CONTROLLING STORM RUNOFF AND EROSION, AND ESSENTIALLY ALLOWING HISTORIC FLOWS TO CONTINUE TO DRAIN THROUGH THE PROPERTY. PRESENTLY, THE SITE IS BOUNDED ON THE NORTH AND SOUTH BY DEVELOPED M-1 PROPERTY, ONE-WAY SOUTHBOUND THIRD STREET ON THE WEST IS PAVED WITH CURB AND SIDEWALK, AND MAINTAINED BY THE CITY OF ALBUQUERQUE. THE SITE CURRENTLY DRAINS AT 1/2% FROM EAST TO WEST. HISTORICAL SITE RUNOFF PATTERNS WILL REMAIN UNCHANGED SINCE THIRD STREET IS PROPOSED TO BE PAVED WITH CURB AND SIDEWALK. THE PROPOSED IMPROVEMENTS WILL BE LOCATED WITHIN THE CITY ROW. THE SITE IS NOT IMPACTED DIRECTLY BY ANY OFF-SITE DRAINAGE FLOWS SINCE THE ADJACENT ALLEY IN THE REAR DRAINS TO THE SOUTH.

## CALCULATIONS

### DESIGN CRITERIA

HYDROLOGIC METHODS PER SECTION 22.2, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL (DPM) REVISED JANUARY 1993 FOR CITY OF ALBUQUERQUE ADOPTED BY THE COUNTY OF BERNALILLO  
DISCHARGE RATE:  $Q = \text{DRAINAGE RATE} \times \text{AREA}$ , "Peak Discharge Rates For Small Watersheds"  
VOLUMETRIC DISCHARGE:  $VOLUME = \text{EFFECTIVE} \times \text{AREA}$   
DESIGN STORM: 100-YEAR/6-HOUR, 10-YEAR/6-HOUR (T<sub>c</sub> = 10 YEAR VALUES)

### EXISTING CONDITIONS

LOT AREA = 0.24 ACRES, WHERE EXCESS PRECIP. C<sub>v</sub> = 1.13 in. [0.52]  
PEAK DISCHARGE: Q100 = 0.74 CFS [0.4] WHERE UNIT PEAK DISCHARGE C<sub>v</sub> = 3.1 CFS/AC [1.7]  
THEREFORE: VOLUME 100 = 984 CF [453]

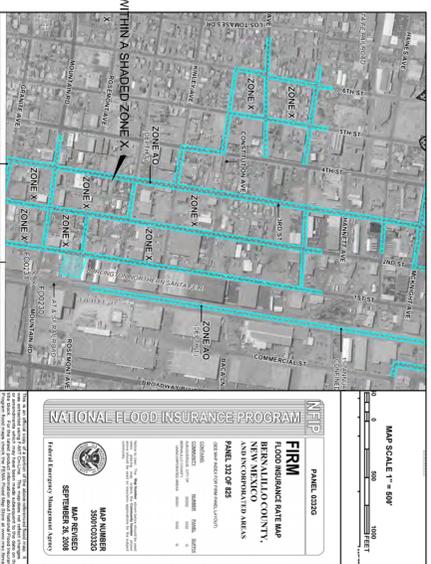
### DEVELOPED CONDITIONS

DETERMINE LAND TREATMENTS, PEAK DISCHARGE AND VOLUMETRIC DISCHARGE FOR STUDY AREA		AREA	LAND TREATMENT	Q Peak	E
UNDEVELOPED	A	0.00 AC (0%)	1.56 [0.38]	0.53 [0.13]	
LANDSCAPING/POND	B	0.09 AC (37%)	2.28 [0.95]	0.78 [0.28]	
GRAVEL & COMPACTED SOIL	C	0.03 AC (13%)	3.14 [1.71]	1.13 [0.52]	
ROOF - PAVEMENT	D	0.12 AC (50%)	4.70 [3.14]	2.12 [1.34]	

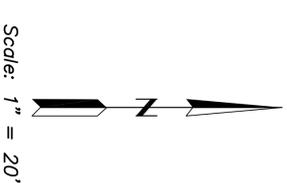
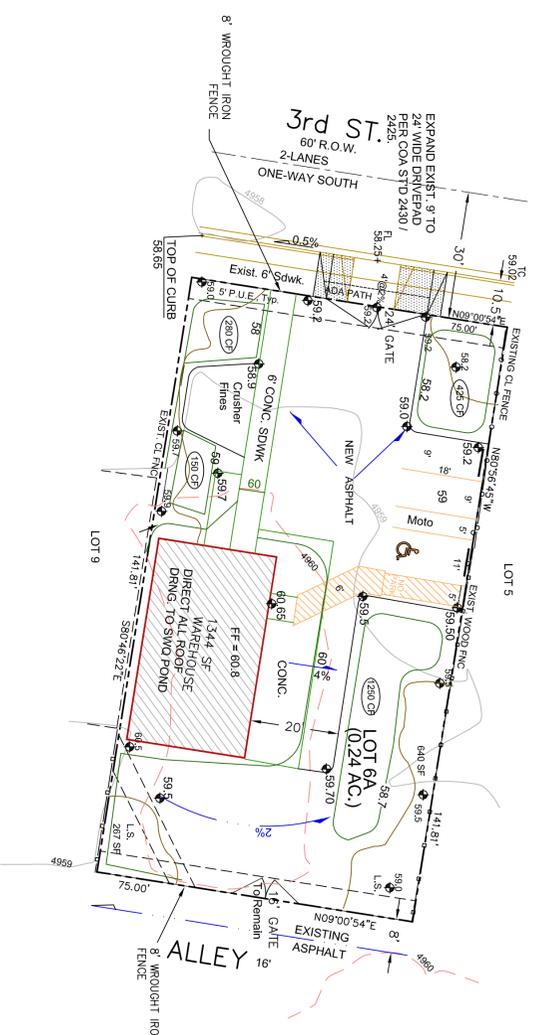
THEREFORE: E<sub>Weighted</sub> = 1.50 in. [0.5x] & VOLUME 100 = 1306 CF  
Q100 = 0.86 CFS VOLUME 10-DAY = ADD. 1.6 X 12 (43560/12) = 2002 CF

### SIZE REQUIRED STORM WATER QUALITY REQ. #

- 1) HARVEST DEVELOPED POINT RAINFALL, THROUGH SOFT, DEPRESSED LANDSCAPING 3-AREAS. TOTAL AREA = 8200 SF
- 2) CHECK REQUIRED FIRST FLUSH VOLUME OF: 0.34 INCHES X 0.12 AC (43560 SF) = 148 CF
- 3) 10-DAY (VOL.100 VR.) IS PROVIDED AS CALLED WITHIN 3 L.S. AREAS. TOTAL PROVIDED = 1250 + 430 + 425 CF = 2105 CF



## FIRM MAP PANEL # 332 G



## VICINITY MAP ZONE J-14 NOTES

1. ALL WORK WITHIN THE RIGHT-OF-WAY SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECS. FOR PUBLIC WORKS CONSTRUCTION, 1986, 9TH U.P.D.A.T.E.
2. AN EXCAVATION/CONSTRUCTION REPORT IS REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY ROW. AN APPROVED COPY OF THIS PLAN MUST BE SUBMITTED AT THE TIME OF APPLICATION.
3. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES, AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
4. ALL LANDSCAPING AREA SHALL BE SOFT-LINED WITH NATIVE VEGETATION AND/OR GRAVEL/GRAVEL CRUSHER FINES.
5. CONTRACTOR SHALL ENSURE THAT NO SITE SOILS/SEDIMENT OR SILT ENTER THE RIGHT-OF-WAYS DURING CONSTRUCTION.
6. REVEGETATE ALL AREAS DISTURBED DUE TO CONSTRUCTION PER CITY OF ALBUQ. SPEC. 1012, NATIVE SEED MIX.
7. MAXIMUM SITE GRADING WITHOUT EROSION PROTECTION: 3 HORIZONTAL TO 1 VERTICAL, 3:1. ALL DIMENSIONS TO FACE OF CURB, UNLESS NOTED OTHERWISE.

## LEGEND

EXIST. SPOT ELEVATION	+24.0
EXIST. CONTOUR	10
NEW SPOT ELEVATION	24.0
NEW CONTOUR	12
NEW SWALE	
DRAINAGE DIRECTION, EXISTING	
NEW CONCRETE CURB OR R/R, "T" (7.0' HEIGHT)	
NEW P.C.C., CONCRETE	
FLOWLINE	FL
EXISTING POWER POLE	O P.P.
EDGE OF ASPHALT	EA
TYPE "V" RIPRAP, 6" BURY (AVG. DIA. 4")	
STORM WATER QUALITY	SWQ

## PROJECT DATA

LEGAL DESCRIPTION  
LOT 6-A, BLOCK 9, PARIS ADDITION  
ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO  
PROJECT BENCHMARK  
TOP OF CURB, PROJECTED SW CORNER, ELEVATION = 4956.65.  
SEE PLAN, NOV088, TIED FROM ACS "8-H13".  
TOPOGRAPHIC DESIGN SURVEY  
PROVIDED BY ALPHA PRO SURVEYING, LLC, DATED SEPTEMBER 2017, GARY GRITSKO, FLS 8086.

**Clark Consulting Engineers**  
19 Ryan Road, B7015  
Edgewood, New Mexico 87015  
Tel: (505) 281-2444

DESIGNED BY: PWC	DRAWN BY: CCE	JOB #:	OLAGUE-3RD
CHECKED BY: PWC	DATE: SEP2017	FILE #:	G/D
DATE: 10/12/17		1212 3RD ST., NW OLAGUE WAREHOUSE - GREEN DESERT LLC	
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DATE: 10/12/17		1212 3RD ST., NW OLAGUE WAREHOUSE - GREEN DESERT LLC	



I, PHILIP W. CLARK, A PROFESSIONAL ENGINEER LICENSED IN ACCORDANCE WITH THE LAWS OF THE STATE OF NEW MEXICO, HEREBY CERTIFY THAT I HAVE LISTED THE SITE SHOWN HEREON, AND THAT THE CONTOURS SHOWN REPRESENT THE EXISTING GROUND CONDITIONS, AND DO NOT REPRESENT THE EXISTING GROUND KIND, NOR ANY DISTURBANCE OF THE EXISTING GROUND HAS OCCURRED ON THIS SITE SINCE THE CONTOURS WERE DETERMINED.  
PHILIP W. CLARK N.M.P.E. #10285