### CITY OF ALBUQUERQUE



Richard J. Berry, Mayor

October 26, 2017

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

RE: Olague Warehouse - 1212 3<sup>rd</sup> St. NW

**Grading Plan** 

Stamp Date: 10/12/17 Hydrology File: J14D184

Dear Mr. Clark:

PO Box 1293 Based upon the information provided in your submittal received 10/24/2017, 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 If you have any questions, please contact me at 924-3995 or rbrissette@cabq.gov.

Sincerely,

www.cabq.gov

Renée C. Brissette, P.E. CFM

Renée C Brissette

Senior Engineer, Hydrology

Planning Department



# SUI JECT PROPERTY IS ADJACENT TO AN A0 FLOOD HAZARD ZONE.

П

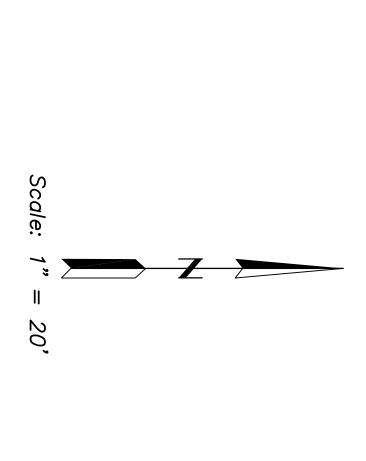
RS

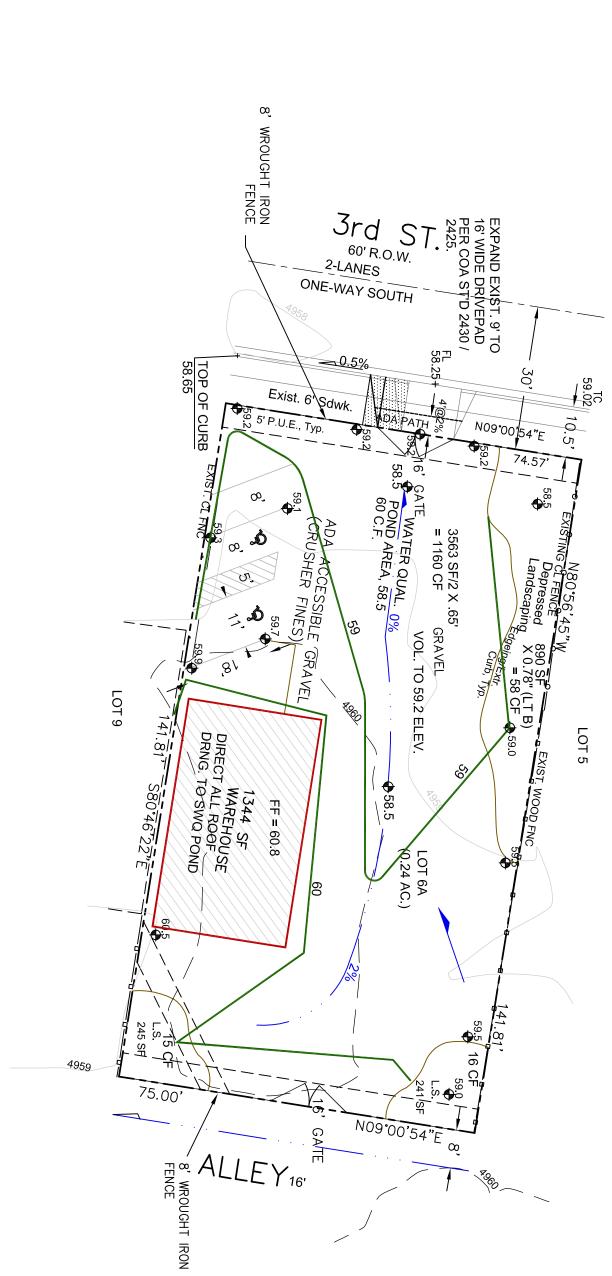
MAP

**GRADING &** 

DRAINAGE

PANEL \* 332 0





## ALCUL ATIONS

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 OUTFALL LOCATIONS WILL REMAIN UNCHANGED. SINCE THIRD STREET IS IMPROVED ONLY MINIMAL GRADING (DRIVEWAY EXPANSION) IS PROPOSED WITHIN THE CITY R.O.W. THE SITE IS NOT IMPACTED ADVERSELY BY ANY OFF—SITE DRAINAGE FLOWS SINCE THE ADJACENT ALLEY IN THE REAR DRAINS TO THE SOUTH.

1. EXISTING CONTOURS, AND SPOT ELEVATIONS AND EXISTING DRAINAGE PATTERNS AND EXISTING IMPROVEMENTS: INCLUDING EXISTING SIDEWALK, AND STREET IMPROVEMENTS.

2. PROPOSED IMPROVEMENTS: 1344 SQUARE FOOT METAL WAREHOUSE STORAGE BUILDING, PARKING, GRAVEL DRIVES, 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 WAREHOUSE—STORAGE PROJECT IS LOCATED IN THE NORTH—CENTRAL DOWNTOWN AREA OF ALBUQUERQUE APPROXIMATELY 1/2 MILE NORTH OF THE DOWNTOWN CORE. THE GRADING & DRAINAGE 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:

### DESIGN CRITERIA

(DPM)

HYDROLOGIC METHODS PER SECTION 22.2, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL REVISED JANUARY 1993 FOR CITY OF ALBUQUERUQUE ADOPTED BY THE COUNTY OF BERNALILLO DISCHARGE RATE:  $Q=QPEAK \times AREA..."Peak$  Discharge Rates For Small Watersheds" VOLUMETRIC DISCHARGE: VOLUME = EWeighted  $\times$  AREA P100 = 2.35 Inches, Zone 2 P10-Day = 3.95" Time of Concentration, TC=12 Minutes DESIGN STORM: 100-YEAR/6-HOUR, 10-YEAR/6-HOUR [ ] = 10 YEAR VALUES

# EXISTING CONDITIONS

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

# DEVELOPED CONDITIONS TREATMENTS, PEAK DISCHARGE AND

THEREFORE: $E$ Weighted = 1.20 Q100 = 0.77 CFS Q10 = xx CFS		ROOF - PAVEMENT -	GRAVEL & COMPACTED SOIL	LANDSCAPING/POND	UNDEVELOPED	DETERMINE LAND TREATMENTS, PEAK DISCHARGE AND VOLUMETRIC DISCHARGE FOR STUDY AREA $AREA$ LAND TREATM'T Q Peak
= 1.20 ln.[0.xx] & 0.77 CFS x CFS	0.24 Ac.	0.03 Ac.(12%)	0.18 Ac.(75%)	0.03 Ac.(13%)	0.00 Ac.(0%)	, PEAK DISCHARGE AREA
VOLUME 1		D	C	В	A	AND VOLUN
VOLUME $100 = 1045 \text{ CF}$ VOLUME $10-DAY = ADD, 1.6 \times 0.03 (43560/12) = 1220 \text{ CF}$		4.70[3.14]	3.14[1.71]	2.28[0.95]	1.56[0.38]	E AND VOLUMETRIC DISCHARGE LAND TREATM'I Q Peak
X.03 (43560/12)		2.12[1.34]	1.13[0.52]	0.78[0.28]	0.53[0.13]	F

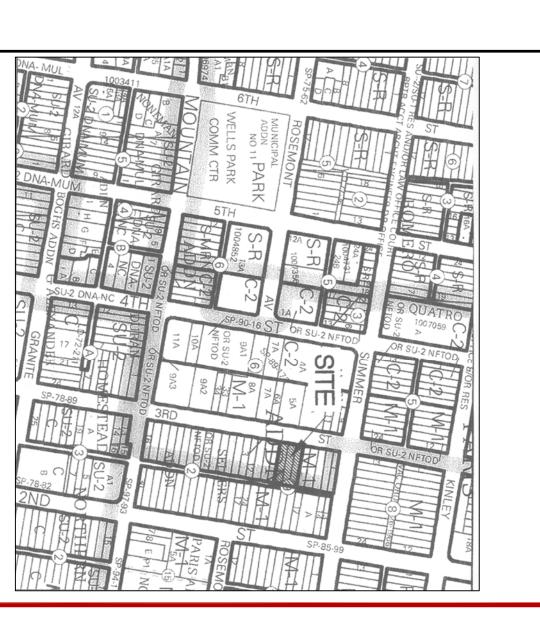
# SIZE REQUIRED STORM WATER QUALITY REQ. THEREFORE: CALC. VOLUME LEAVING SITE (LESS HARVEST AREAS, 0.03 AC, SEE 1. BELOW) 0.21 X 1.2 (43560/12) = 915 CF...< 984 CF (EXISTING)...OK

2.) DEPRESSED DRIVE THROAT SHALL RETAIN THE "FIRST FLUSH" VOLUME OF;
0.34 INCHES X 1344 (SF)/12 = 38 CF
3). 10-DAY (VOL100 YR.) IS PROVIDED AS CALCED WITHIN PKG. AISLE + 3 L.S. AREAS,
TOTAL PROVIDED = 1160 + 90 CF = 1250 CF 1.) HARVEST DEVELOPED POINT RAINFALL, THROUGH SOFT, DEPRESSED LANDSCAPING 3-AREAS ...TOTAL AREA = 1375 SF

PHILIP

I, PHILIP W. CLARK,
OF NEW MEXICO, DO H
SHOWN REPRESENT TH
KIND, NOR ANY DISTUR
DETERMINED. SIONAL ENGINEER LICENSED IN ACCORDANCE WITH THE LAWS OF THE STATE STIFY THAT I HAVE VISITED THE SITE SHOWN HEREON, AND THAT THE CONTOURS GROUND CONDITIONS, AND DO FURTHER CERTIFY THAT NO EARTHWORK OF ANY THE EXISTING GROUND HAS OCCURRED ON THIS SITE SINCE THE CONTOURS WERE





### **VICINITY** MAP

ZONE

14

## NOTES

- 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 UPDATE.
- AN EXCAVATION/CONSTRUCTION PERMIT IS REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY R.O.W. AN APPROVED COPY OF THIS PLAN MUST BE SUBMITTED AT THE TIME OF APPLICATION.
- 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. ALL LANDSCAPING AREA SHALL BE SOFT—LINED WITH NATIVE VEGETATION AND/OR GRAVEL. RECYCLED ASPHALT/GRAVEL CRUSHER FINES SHALL SHALL DRAIN DIRECTLY TO EXPANDED DRIVEPAD
- REVEGETATE ALL AREAS DISTURBED DUE TO CONSTRUCTION PER CITY OF ALBUQ. SPEC. 1012, NATIVE SEED MIX. CONTRACTOR SHALL ENSURE THAT NO SITE SOILS/SEDIMENT OR SILT ENTER THE RIGHT—OF—WAYS DURING CONSTRUCTION.
- MAXIMUM SITE GRADING WITHOUT EROSION PROTECTION: 3 HORIZONTAL TO 1 VERTICAL, 3:1. ALL DIMENSIONS TO FACE OF CURB, UNLESS NOTED OTHERWISE.

# LEGEND

STORM WATER QUALITY	TYPE 'VVL' RIPRAP, 6" BURY (AVG. DIA. 4", )	EDGE OF ASPHALT	EXISTING POWER POLE	FLOWLINE	NEW P.C.C., CONCRETE	NEW CONCRETE CURB OR R.R. TIE (0.5' HEIGHT)	DRAINAGE DIRECTION, EXISTING	NEW SWALE -	NEW CONTOUR	NEW SPOT ELEVATION	EXIST. CONTOUR	EXIST. SPOT ELEVATION	
SWQ		EA	0 P.P.	된			>		12	<b>4</b> 24.0	10	+24.0	

### PROJECT DATA

DESCRIPTION

LOT 6-A, BLOCK 9, PARIS ADDITION ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

PROJECT BENCHMARK TOP OF CURB, PROJECTED SW CORNER: ELEVATION = 4958.65, SEE PLAN. NGVD88. TIED FROM ACS "8-H13".

# TOPOGRAPHIC DESIGN SURVEY

PROVIDED BY ALPHA PRO SURVEYING, LLC. DATED SEPTEMBER 2017, GARY GRITSKO, PLS 8686.



19 Ryan Road Edgewood, New Mexico 87015 (505) 281–2444 Engineers

ADD. RB (COA HYD Cell: (505) 264–6042

LOT 6-A, BLOCK 9, PARIS ADDITION

ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO 1212 3RD ST., NW
OLAGUE WAREHOUSE - GREEN DESERT LLC Grading & Drainage Plan

1 OF 1