

CITY OF ALBUQUERQUE



March 17, 2017

Richard J. Berry, Mayor

Philip Clark, P.E.
Clark Consulting Engineers
19 Ryan Road
Edgewood, NM 87015

RE: Cosme Retail (Central Ave)
Grading and Drainage Plan
Engineer's Stamp Date 3-15-2017 (File: K11D077)

Dear Mr. Clark:

Based upon the information provided in your submittal received 3-17-2017, the above referenced Grading and Drainage Plan is approved for building permit based on following conditions:

- A foundation survey is required.
- Floodplain permit application required.

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.

If you have any questions, you can contact me at 924-3999.

Sincerely,

Shahab Biazar, P.E.
City Engineer, Planning Dept.
Development Review Services

MA/SB



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) _____

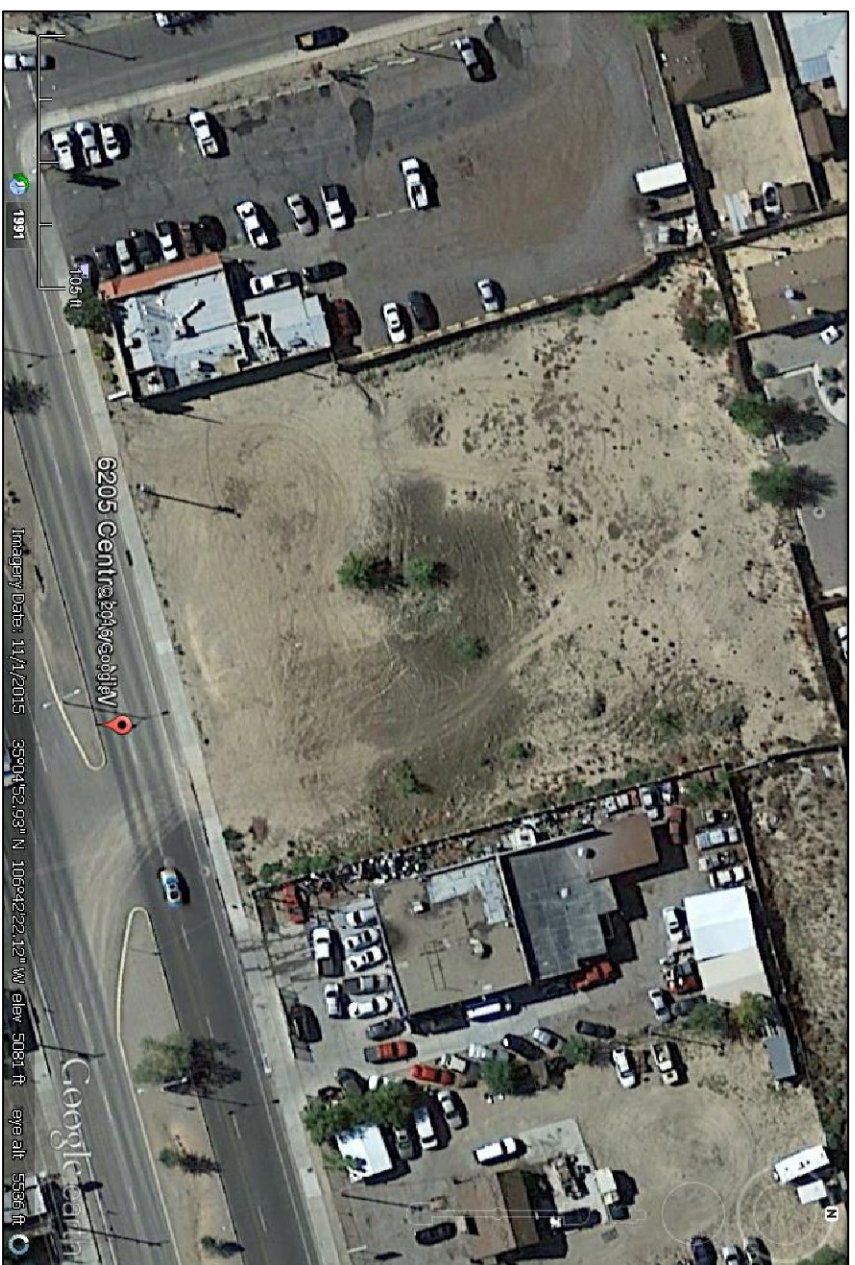
IS THIS A RESUBMITTAL?: ☐ Yes ☐ No

APPROVED PLAN

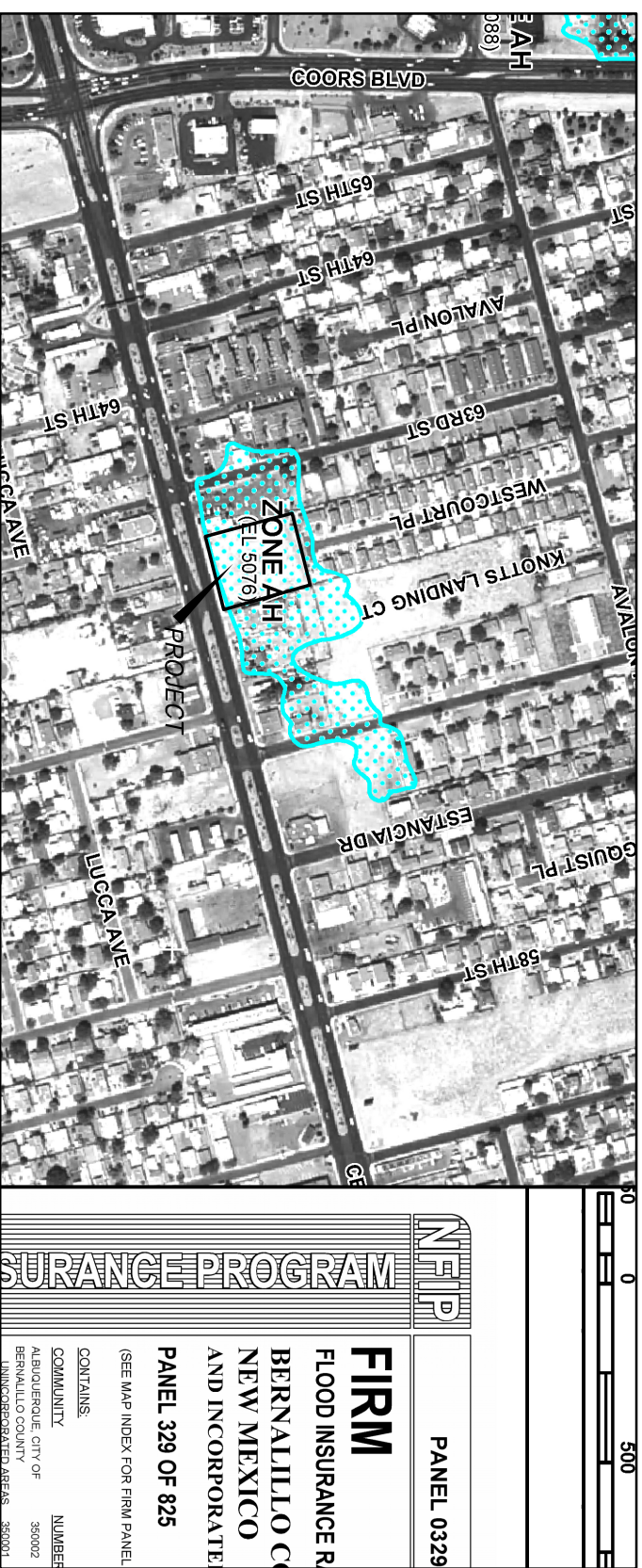
DATE SUBMITTED: _____ **By:** _____

COA STAFF: _____ **ELECTRONIC SUBMITTAL RECEIVED:** _____

FEE RECEIVED: _____



ORTH0-PHOTO, DATED 11-1-2015



SITE DOES LIE IN SPHA PANEL # 329 H

GRADING & DRAINAGE PLAN

THE COMMERCIAL RETAIL PROJECT IS LOCATED IN THE WEST CENTRAL AREA OF ALBUQUERQUE APPROXIMATELY 3 MILES WEST OF THE DOWNTOWN CORE OF ALBUQUERQUE, NM. THE GRADING & DRAINAGE SCHEME HEREIN IS IN COMPLIANCE WITH THE BERNALILLO COUNTY FLOOD HAZARD ORDINANCE, NO.88-46, 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 EXISTING IMPROVEMENTS, INCLUDING PREVIOUSLY DEVELOPED LOT
2. PROPOSED IMPROVEMENTS: 12,400 SF OFFICE-RETAIL BLDG., ON-SITE PARKING, NEW GRADE ELEVATIONS, FLATWORK AND LANDSCAPING.
3. CONTINUITY BETWEEN EXISTING AND PROPOSED ELEVATIONS.
4. QUANTIFICATION AND ACCEPTANCE OF UPSTREAM OFF-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 FROM EROSION, AND ESSENTIALLY ALLOWING HISTORIC FLOWS TO CONTINUE TO DRAIN THE CATCHMENT. PRESENTLY, THE SITE IS BOUNDED ON THE EAST AND WEST BY THE RIVER, AND THE SOUTHERN BOUNDARY IS FORMED BY THE RIVER AND THE WEST SIDEWALKS AND CURB & GUTTER. THE SITE CURRENTLY DOES NOT DRAIN OR DISCHARGE RUNOFF. HISTORICAL SITE RUNOFF OUTFALL LOCATIONS WILL REMAIN UNCHANGED. SINCE GENERAL AREA IS IMPROVED NO GRADING IS PROPOSED WITHIN THE CATCHMENT. THE PROPOSED IMPROVEMENTS WILL NOT AFFECT THE EXISTING DRAINAGE. ADDITIONAL RUNOFF IS ROUTED TO LANDSCAPING AND WATER HARVESTING IS RECOMMENDED. THE SITE IS NOT IMPACTED ADVERSELY BY ANY OFF-SITE DRAINAGE FLOWED

CALCULATIONS

DESIGN CRITERIA

HYDROLOGIC METHOD: 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: $Q = 0.06 \text{ PPM} \times \text{AREA}$, "Peak Discharge Rates for Small Watersheds"
VOLUMETRIC DISCHARGE: VOLUME = Elongated \times AREA
P100 = 2.20 inches, Zone 1 Time of Concentration, TC = 10 Minutes
DESIGN STORM: 100-YEAR/6-HOUR, 10-YEAR/6-HOUR [] = 10 YEAR VALUES

EXISTING CONDITIONS (PREVIOUSLY DEVELOPED)

TOTAL AREA = 1.2 ACRES, WHERE EXCESS PRECIP. 'C' = 0.99 in. [0.44]
PEAK DISCHARGE, Q100 = 3.5 CFS [1.8] WHERE UNIT PEAK DISCHARGE 'A' = 2.9 CFS/AC. [1.5]
THEREFORE: VOLUME 100 = 4312 CF [1916]

DEVELOPED CONDITIONS

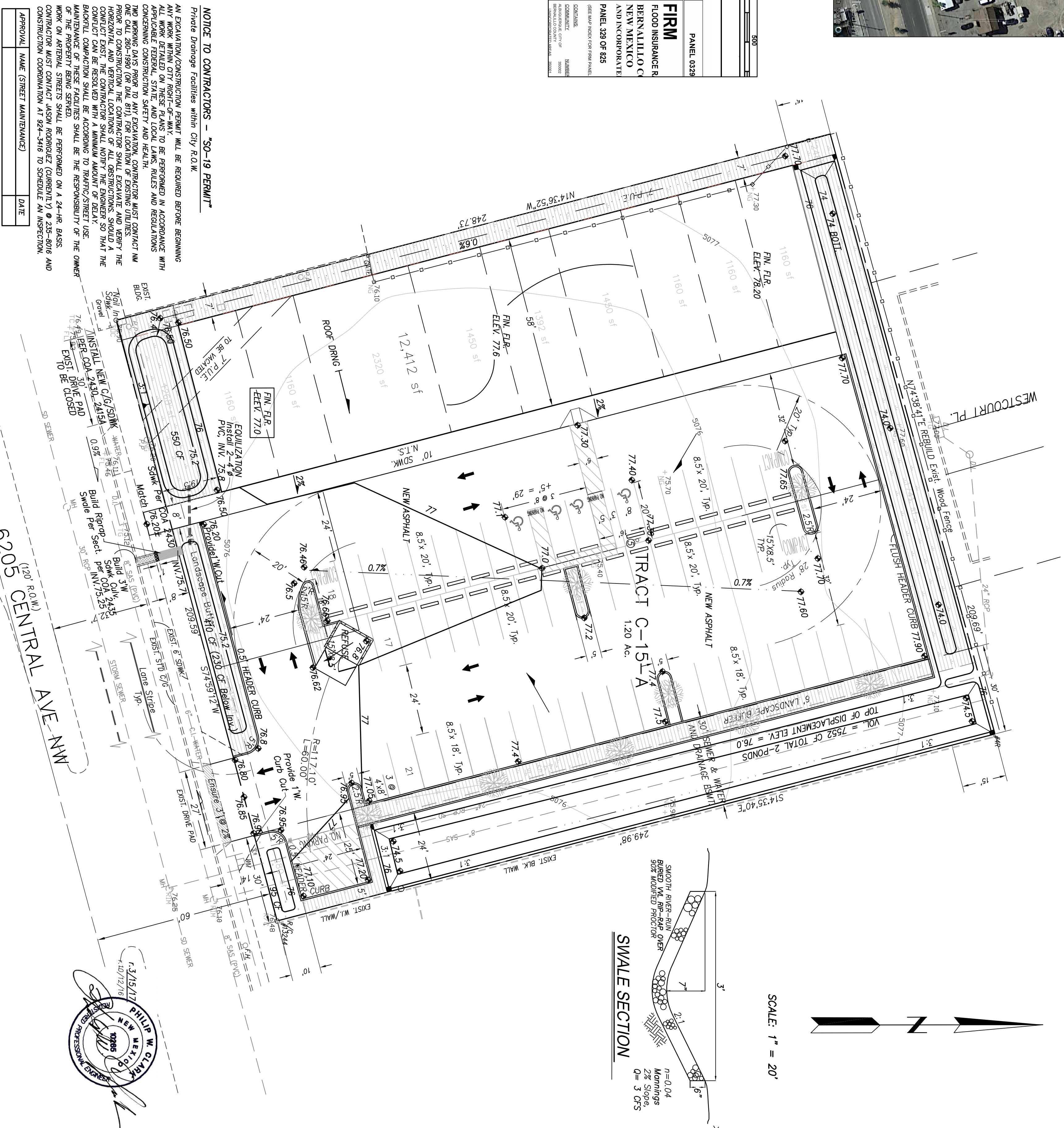
AREA	LAND TREATMENT	0.5
DETERMINE LAND TREATMENTS, PEAK DISCHARGE AND VOLUMETRIC DISCHARGE FOR STUDY AREA		

LANDUSE / LANDSCAPING / Horreast GRAVEL & COMPACTED SOIL ROOF - PAVEMENT	0.33X Ac.(17%) 0.0 Ac.(0%) 1.0 Ac.(83%) 1.2 Ac.	A B C D	0.49(0.24) 2.03(0.76) 2.87(1.04) 4.40(2.90)	0.67(0.22) 0.99(0.44) 1.97(1.24)
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THEREFORE: $E_{\text{Weighted}} = 1.75 \ln[.07]$ & VOLUME 100 = 7623 CF
 $Q100 = 4.81$ CFS
 $Q10 = 3.0$ CFS
VOLUME 10 = 4660 CF

RECOMMEND : ROUTE DEVELOPED RUNOFF THROUGH EXISTING/UPGRADED SOFT LANDSCAPING INCLUDING DEPRESSED LANDSCAPING STRIP ALONG PARKING AS SHOWN

(CENTRAL BASIN TO CULVERT=0.88 AC.
OR ~3.5 CFS...SIZE ABOVE)



SIZE OUTLET: $Q = CA\sqrt{2gh}$ Where: $C = 0.7$, $g = 32 \text{ f/s}$

A = 0.625 SF, H=0.625
USE 2' WIDE CULVERT MIN.

CHECK EPA FIRST-FLUSH RETAINED

1.2 AC x 43560 SF x 0.37"/12 = 1612 CF
TOTAL RETAINED ON-SITE, 1675 CF, 4 AREAS

BASIN TO CULVERT=0.88 AC.
CFS...SIZE ABOVE)

PHILIP W. CLARK NMPE #10265

NMPE #10265

A detailed street map of the Central Avenue area in Los Angeles, California. The map shows a grid of streets including Central Avenue, Broadway, Main Street, and others. A red arrow points to a specific location on Central Avenue, labeled "PROJECT".

VICINITY MAP ZONE K-11

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 EDITION W/ 9 UPDATES.
- ALL DAMAGE/IMPROVEMENTS WITHIN THE CITY ROW SHALL BE BUILT, INSPECTED, AND ACCEPTED PER THE S.O. (SPECIAL ORDER) 19 PROCESS.
2. 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.
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.
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 REFER TO & SEE EROSION & SEDIMENT CONTROL PLAN.
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. COUNTRY	10
NEW SPOT ELEVATION	24.0
NEW COUNTRY	12
NEW SWALE	
DRAINAGE DIRECTION, EXISTING	
NEW P.C.C., CONCRETE	
TOP OF CURB, EXISTING	TC
FLOWLINE	FL
EXISTING POWER POLE	O
FACE OF CURB/FACE OF CURB	F—F
HIGH POINT	HP

PROJECT DATA

LEGAL DESCRIPTION


LOT C-15A, BLOCK 2, TOWN OF ATRISCO GRANT
ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

PROJECT BENCHMARK

TOP OF REBAR/CAP #3244 AT THE SOUTHEAST CORNER MSL
ELEVATION = 5076.48, AS TIED FROM COA 3-1/4" DIAMETER ALUM
DISK, ACS 18_K11, NAVD 88, MSL ELEV. 5076.47, LOCATED AT THE EN
CURB RETURN OF 65TH ST. AND CENTRAL AVE.

TOPOGRAPHIC DESIGN SURVEY

PROVIDED BY ALPHA PRO SURVEYING SUPPLEMENTED BY CLARK CONSULTING ENGINEERS UNDER DIRECTION OF GARY E. GRITSKO, N.M.P.S., DATED APRIL 2016.

 Clark Consulting Engineers	
19 Ryan Road Englewood, New Mexico 87015 Cell: (505) 264-6042	
Title: (505) 281-2444	
DATE	REVISION
10-12-16	ADDP CHANGES ADDED 300' NOTES REF: 10 ESC PLAN 3/15/17 ADD DISP VOL
LOT C-15A, BLOCK 2, TOWN OF ATRISCO GRANT ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO 6205 CENTRAL AVE NW RETAIL SUITES Grading & Drainage Plan	
DESIGNED BY: PWC	DRAWN BY: CCE
CHECKED BY: PWC	DATE: 4/2/2016
JOB #: BURR-COSME	FILE #: 67D
1 OF 1	