CITY OF ALBUQUERQUE

Planning Department
David Campbell, Director



May 28, 2019

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

RE: Crossroads Church

5200 Marble Ave. NE

Grading and Drainage Plan Engineer's Stamp Date: 05/24/19

Hydrology File: J17D035

Dear Mr. Clark:

PO Box 1293

Based upon the information provided in your submittal received 05/24/2019, the Grading and Drainage Plan is approved for Building Permit and SO-19 Permit.

Albuquerque

Please attach a copy of this approved plan in the construction sets for Building Permit processing along with a copy of this letter. Prior to approval in support of Permanent Release of Occupancy by Hydrology, Engineer Certification per the DPM checklist will be required.

NM 87103

As a reminder, if the project total area of disturbance (including the staging area and any work within the adjacent Right-of-Way) is 1 acre or more, then an Erosion and Sediment Control (ESC) Plan and Owner's certified Notice of Intent (NOI) is required to be submitted to the Stormwater Quality Engineer (Curtis Cherne, PE, ccherne@cabq.gov, 924-3420) 14 days prior to any earth disturbance.

www.cabq.gov

Also as a reminder, please provide Drainage Covenant for the retention pond per Chapter 17 of the DPM prior to Permanent Release of Occupancy. Please submit this on the 4th floor of Plaza de Sol. A \$25 fee will be required.

If you have any questions, please contact me at 924-3995 or rbrissette@cabq.gov.

Sincerely,

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

Renée C. Brissette

Planning Department



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: CROSSROADS CHURCH Building Permit #:_	
Description: PORTION OF TR. 1	ALTO ADDN
147	
Applicant: CLARK CONSULTING ENGINEERS	Contact: PHIL
Phone#: 281-2444 xpxxxx cell / txt	/ txt 264.6042 E-mail: CCEalbq@aol.com
Other Contact:	Contact:
Address:	
Phone#: Fax#:	E-mail:
TYPE OF DEVELOPMENT: PLAT RE	RESIDENCE DRB SITE X ADMIN SITE
Check all that Apply:	
DEPARTMENT:	TYPE OF APPROVAL/ACCEPTANCE SOUGHT:
TRAFFIC/ TRANSPORTATION	X BUILDING PERMIT APPROVAL CERTIFICATE OF OCCUPANCY
TYPE OF SUBMITTAL:	
ENGINEER/ARCHITECT CERTIFICATION	PRELIMINARY PLAT APPROVAL
PAD CERTIFICATION	SITE PLAN FOR SUB'D APPROVAL
CONCEPTUAL G & D PLAN	SITE PLAN FOR BLDG. PERMIT APPROVAL
X GRADING PLAN	FINAL PLAT APPROVAL
DRAINAGE REPORT	
DRAINAGE MASTER PLAN	SIA/ RELEASE OF FINANCIAL GUARANTEE
FLOODPLAIN DEVELOPMENT PERMIT APPLIC	GRADING PERMIT APPROVAL
CLOMR/LOMR	SO-19 APPROVAL
TRAFFIC CIRCULATION LAYOUT (TCL)	PAVING PERMIT APPROVAL
TRAFFIC IMPACT STUDY (TIS)	GRADING/PAD CERTIFICATION
STREET LIGHT LAYOUT	WORK ORDER APPROVAL
OTHER (SPECIFY)	CLOMR/LOMR
PRE-DESIGN MEETING?	FLOODPLAIN DEVELOPMENT PERMIT
IS THIS A RESUBMITTAL?: Yes X No	OTHER (SPECIFY)
DATE SUBMITTED: 5/24/19 Bv: F	PWC

ELECTRONIC SUBMITTAL RECEIVED.

COA STAFF:

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E PLACE OF WORSHIP BUILDING ADDITION PROJECT IS LOCATED IN THE WER NE HEIGHTS AREA OF ALBUQUERQUE APPROXIMATELY 3 MILES ST OF THE DOWNTOWN CORE. THE GRADING & DRAINAGE SCHEME REON IS IN COMPLIANCE WITH THE CITY FLOOD HAZARD ORDINANCE, ID THE CITY STORM DRAINAGE ORDINANCE. THE PLAN IS REQUIRED IN DER TO FACILITATE THE OWNER'S REQUEST FOR BUILDING PERMIT. THE AN SHOWS:

AND EXISTING INCLUDING EXISTING

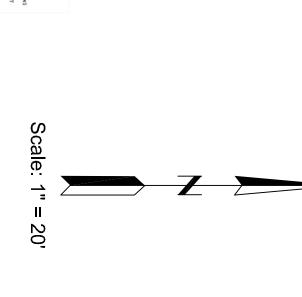
1. EXISTING CONTOURS, AND SPOT ELEVATIONS AND EXISTING DRAINAGE PATTERNS AND EXISTING IMPROVEMENTS: INCLUDING EXIST SIDEWALK, EXISTING STRUCTURE AND PARKING LOT.

2. PROPOSED IMPROVEMENTS: APPROX. 2000 SQUARE FOOT BUILDING FOOTPRINT, PARKING, ASPHALT REPLACEMENT, 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 EAST AND SOUTH BY DEVELOPED PROPERTY. PERIMETER TRUMAN AND MARBLE AVE ARE PAVED WITH CURB AND SIDEWALK, AND MAINTAINED BY THE CITY OF ALBUQUERQUE. THE SITE CURRENTLY DRAINS AT 2% FROM NORTHEAST TO SOUTHWEST. HISTORICAL SITE RUNOFF OUTFALL LOCATIONS WILL REMAIN UNCHANGED. ONLY MINIMAL GRADING (DRIVEWAY RECONSTRUCTION) IS PROPOSED WITHIN THE CITY R.O.W. THE SITE IS NOT IMPACTED ADVERSELY BY ANY OFF—SITE DRAINAGE FLOWS.



200 MARBLE AVENUE Z

SEE TCL, REMOVE DRIVECUT

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 IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.

3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NM ONE CALL 260-1990 (OR DIAL 811), FOR LOCATION OF EXISTING UTILITIES.

4. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. 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 BEING SERVED.

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

8. CONTRACTOR MUST CONTACT DAVID S. HARRISON @ 857-8053 AND CONSTRUCTION COORDINATION AT 924-3416 TO SCHEDULE AN INSPECTION.

NOTICE TO CONTRACTORS - "SO-1 Private Drainage Facilities within City R.O.W.

"SO-19 PERMIT"

CONCRETE WALK

NEW

T B/C

SDW 28

L.S. L.T. B/C

TRUMAN AVENUE

S

EXISTING FIN. FLR. ELEV. 5243.00 CHURCH BUILDING No. 5200

20' Public Alley

_D Sdwk Culvert COA 2236, Inv.

APPROVAL NAME (STREET MAINTENANCE) DATE

CALCULATIONS

DESIGN CRITERIA

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

ASPHALT 2=5240.65 EC-5240 3-5240.66

FIN. FLR. EL. 5243.0 NEW ADD'N ASPHALT PANEMENT

CONCRETE

LOT AREA = 0.40 ACRES, WHERE EXCESS PRECIP. 'D' = 2.12 In. [1.34]
PEAK DISCHARGE, Q100 = 1.9 CFS [1.2], WHERE UNIT PEAK DISCHARGE 'C'
THEREFORE: VOLUME 100 = 3049 CF [1946] 4.7 CFS/AC. [3.14]

DEVELOPED CONDITIONS

UNDEVELOPED

LANDSCAPING/POND

GRAVEL & COMPACTED SOIL

ROOF — PAVEMENT DETERMINE LAND TREATMENTS, FOR STUDY AREA 0.00 Ac.(0%) 0.03 Ac.(8%) 0.02 Ac.(4%) 0.35 Ac.(88%) 0.40 Ac. , PEAK DISCHARGE L. AND VOLUMETRIC TRIC DISCHARGE

I Q Peak

1.56[0.38]

2.28[0.95]

3.14[1.71]

4.70[3.14] <u>E</u>
0.53[0.13]
0.78[0.28]
1.13[0.52]
2.12[1.34]

THEREFORE:

= 1.97 ln.[0.xx] THEN: VOLUME 100 = 2860 CF VOLUME 10= xx.x

DECREASE IN DISCHARGE Q = 0.12 CFS
DEVELOPMENT DECREASE IN VOLUME - 188 CF E Weighted — ...

Q100 = 1.78 CFS

Q10 = xx CFS

Q10 = xx DISCHAR

SIZE REQUIRED STORM WATER QUALITY POND

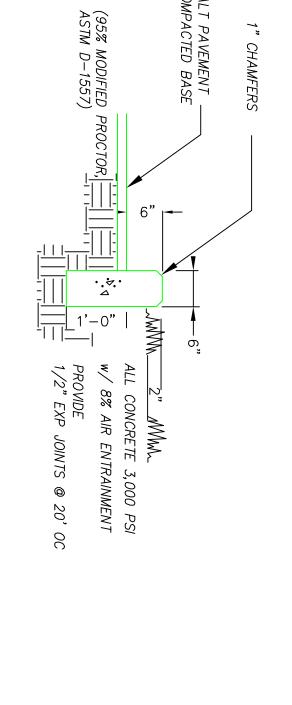
1.) HARVEST DEVELOPED POINT RAINFALL, THROUGH SOFT, DEPRESSED LANDSCAPING 3- MAIN AREAS.

2.) CHECK REQUIRED "FIRST FLUSH" VOLUME OF... 0.34 INCHES X 0.26 AC.(43560 SF)/12 = 321 CF Depressed LS, 1696 x 2/12 = 283 CF Pond, 327+137/2 X 0.7 = 160 CF

SIZE EMERGENCY OUTFALL, REF: Brater-King, Handbook of Hydraulics size outlet: Q = $CA\sqrt{2gH}$ Where: C = 0.7, g = 32 f/s 2 SDWK CULVERT Q = 2.6 CFS A = 0.58 SF, H=0.625' (Orifices w/ Low Head use 2' WIDE FOR Q100 2X Per Fig. 4.4) USE 2' WIDE FOR Q100 2X

CHECK W/ Q = CLH ^{3/2} where: C = 2.7, L = 2', H = 0.67' THEN: Q = 2.96 CFS...OK

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



3" , OVER

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VICINITY MAP

NOTES

ZONE J-17

○ KEYED

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.

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. ALL LANDSCAPING AREA SHALL BE SOFT-LINED WITH NATIVE VEGETATION AND/OR GRAVEL /GRAVEL CRUSHER FINES.

CONTRACTOR SHALL ENSURE THAT NO SITE SOILS/SEDIMENT OR SILT ENTER THE RIGHT-OF-WAYS DURING CONSTRUCTION. 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.

(8) BUILD 4'W x 8' x 6" BURY RIPRAP V-SWALE, 4" DEPTH, AND 2' W. SIDEWALK CULVERT PER COA 2236, See SO 19 PERMIT.

EGEND

NEW CONTOUR

NEW SWALE

DRAINAGE DIRECTION, NEW P.C.C., CONCRETE NEW SPOT ELEVATION EXISTING POWER POLE NEW CONCRETE CURB (0.5 HEIGHT) EXIST. SPOT ELEVATION FLOWLINE EDGE OF ASPHALT TYPE 'VVL' RIPRAP, 6" BURY (AVG. DIA. 4",) STORM WATER QUALITY DOWNSPOUT / SCUPPER CONTOUR EXISTING SWQ DS 24.012 +5242.0 5242 EΑ 0 P.P.

PROJECT DATA

LEGAL DESCRIPTION

PORTION OF TRACT 1, PUEBLO ALTO ADDITION ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

PROJECT BENCHMARK TOP OF CURB, PROJECTED SW CORNER: ELEVATION = 5240.87, SEE PLAN. NAVD88. TIED FROM ACS "19-K17" (5228.15).

TOPOGRAPHIC DESIGN SURVEY
PROVIDED BY THE SURVEY OFFICE. DATED MARCH 2019, TONY HARRIS, PLS 11463.



	e: (505) 281-2444		5
כ		Edge	Clark
OBTION OF TRACT 1		Edgewood, New Mexico 87015	Consulting
DODITON OF TRACT 1 DIJEBLO ALTO ADD	Cell: (505) 264-60	015	Engineers

DATE PORTION OF TRACT 1, PUEBLO ALTO ADDITION ALBUQUERQUE, BERNALILLO COUNTY, NM

5200 MARBLE AVE NE

CROSSROADS OF ALBUQUERQUE **GRADING & DRAINAGE PLAN**

C-1 OF 1

DESIGNED BY: PWC DRAWN BY: CCE
CHECKED BY: PWC DATE: MAY 2019