CITY OF ALBUQUERQUE

Planning Department Alan Varela, Director



February 25, 2025

Verlyn Miller, P.E. Miller Engineering Consultants, Inc 3500 Comanche NE Bldg. F Albuquerque, NM 87107

RE: All Saints Lutheran Church 4800 All Saints Rd NW Grading and Drainage Plan Engineer's Stamp Date: 2/5/25 Hydrology File: C13D201 Case # HYDR-2025-00023

Dear Mr. Miller:

Based upon the information provided in your submittal received 02/05/2025, the Grading and Drainage Plan **is approved** for Grading Permit. Please attach a copy of this approved plan in the construction sets for Building Permit processing.

PO Box 1293

PRIOR TO CERTIFICATE OF OCCUPANCY:

Albuquerque

1. Engineer's Certification, per the DPM Part 6-14 (F): *Engineer's Certification Checklist For Non-Subdivision* is required.

NM 87103

2. Please provide the executed paper Drainage Covenant (latest revision) printed on one-side only with Exhibit A and a check for \$25.00 made out to "Bernalillo County" for the detention pond per Article 6-15(C) of the DPM to Hydrology for review at Plaza de Sol.

www.cabq.gov

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 (Doug Hughes, PE, jhughes@cabq.gov, 505-924-3420) 14 days prior to any earth disturbance.

If you have any questions, please contact me at 505-924-3314 or <u>amontoya@cabq.gov</u>.

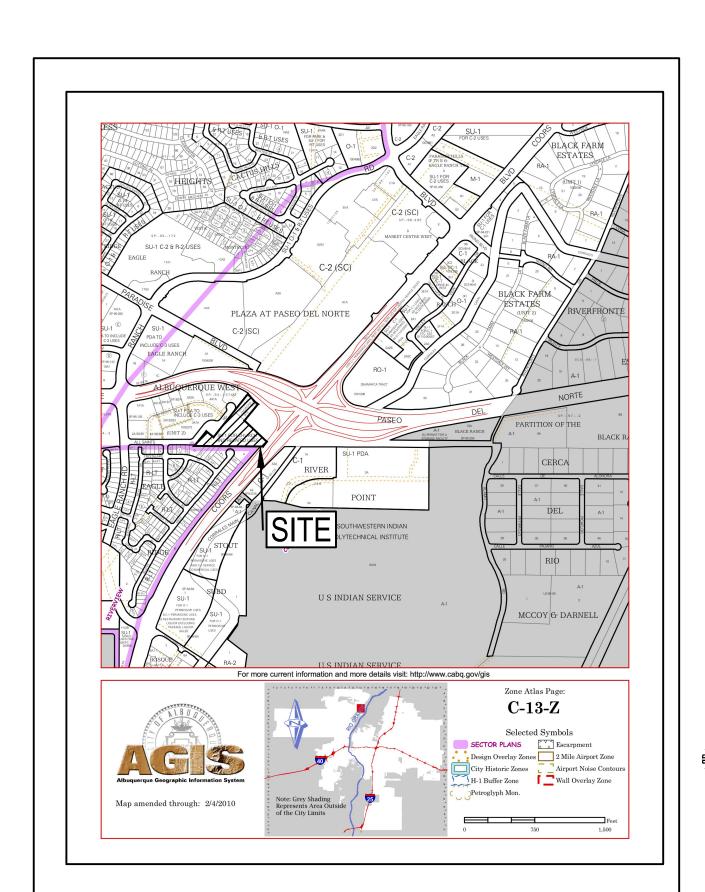
Sincerely,

anth Mars

Anthony Montoya, Jr., P.E., CFM Senior Engineer, Hydrology

Planning Department, Development Review Services

FLOOD ZONE MAP



DRAINAGE REPORT

SITE LOCATION

The existing site is a parcel of land located southwests of Coors and Paseo Del Norte. The stie can be assessed from Eagle Ranch Road and All Saints Road NW.

EXISTING CONDITIONS

The existing site has experienced flooding along the south side of the building that has caused erosion and failure of a retaining wall located along the south side property boundary. The area is partially developed with the church building, sidewalks and landscaping. The site slopes to the south and to the east toward Coors Boulevard. The site does not lie within a 100-year FEMA floodplain.

PROPOSED CONDITIONS

The proposed project will consist of a new storm drainage system to collect three (3) roof drains on the south side of the building that contributed to the cause of the erosion and damage to the retaining wall. This storm drain system will collect the three roof drains and route these flows east to a small retention pond located on the east side of the site. The roof area that drains to the three roof drains is denoted as Basin A and is estimated at 4000sf based on site visits and available mapping. Hydrology calculations for this area are indicated on this sheet.

CONCLUSIONS

35001C0116G

When fully developed as indicated on the grading and drainage plan, runoff from Basin A will discharge into the new storm drainage system and eventually to the small retention pond located on the east side of the site. The retention pond has a capacity of 1700 cubic feet, which is more than the estimated volume of 871 cubic feet from Basin A during the 100-year, 24-hour event.

GENERAL NOTES:

- 1. EXISTING TOPOGRAPHIC DATA SHOWN ON THESE PLANS WAS PROVIDED BY TERRA LAND SURVEYS, LLC. CORRALES, NM DECEMBER 2024. MILLER ENGINEERING CONSULTANTS HAS UNDERTAKEN NO FIELD VERIFICATION OF THIS INFORMATION.
- 2. A.G.R.S. BENCHMARK"10-C12 2003". PUBLISHED ELEVATION OF THE BENCHMARK IS 5095.033 FEET, NAVD 1988 DATUM. CONTOUR INTERVAL IS ONE FOOT.
- 3. THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SEDIMENT AND EROSION CONTROL DEVICES DURING THE CONSTRUCTION PHASE.
- 4. CONTRACTOR SHALL OBTAIN A GRADING PERMIT FROM THE CITY OF ALBUQUERQUE, PRIOR TO ANY GRADING OR CONSTRUCTION.
- 5. TWO WORKING DAYS PRIOR TO ANY EXCAVATION CONTRACTOR MUST CONTACT LINE LOCATING SERVICE 260-1990 FOR LOCATION OF EXISTING UTILITIES.
- 6. ALL EMBANKMENTS SHALL BE PLACED AND COMPACTED IN LIFTS OF MAXIMUM OF 8". THE EMBANKMENTS SHALL BE WETTED AND COMPACTED TO 95% OPTIMUM DENSITY PER ASTM D1557 AND 95% UNDER ALL STRUCTURES INCLUDING DRIVEWAYS AND PARKING LOTS.
- 7. THE CONTRACTOR SHALL FIELD VERIFY LOCATION AND SIZE OF ALL UTILITIES PRIOR TO CONSTRUCTION.
- 8. ALL WORK PERFORMED SHALL COMPLY WITH THE REQUIREMENTS OF THE CITY OF ALBUQUERQUE STORM DRAINAGE REGULATIONS. ALL WORK PERFORMED SHALL COMPLY WITH THE REQUIREMENTS OF THE CITY OF ALBUQUERQUE "GRADING AND DRAINAGE DESIGN REQUIREMENTS AND POLICIES FOR LAND DEVELOPMENT."
- 9. THE OWNER, CONTRACTOR AND/OR BUILDER SHALL COMPLY WITH ALL APPROPRIATE LOCAL, STATE AND FEDERAL REGULATIONS AND REQUIREMENTS.
- 10. THE CONTRACTOR SHALL TAKE ALL APPROPRIATE AND REASONABLE MEASURES TO PREVENT SEDIMENT OR POLLUTANT LADEN STORM WATER FROM EXITING THE SITE DURING CONSTRUCTION. STORMWATER MAY BE DISCHARGED IN A MANNER, WHICH COMPLIES WITH THE APPROVED GRADING AND DRAINAGE PLAN.

- 11. THE CONTRACTOR SHALL TAKE ALL APPROPRIATE MEASURES TO PREVENT THE MOVEMENT OF CONSTRUCTION RELATED SEDIMENT, DUST, MUD, POLLUTANTS, DEBRIS, WASTE, ETC FROM THE SITE BY WIND, STORM FLOW OR ANY OTHER METHOD EXCLUDING THE INTENTIONAL, LEGAL TRANSPORTATION OF SAME IN A MANNER ACCEPTABLE BY
- 12. THE CONTRACTOR SHALL NOT DISTURB AREAS OUTSIDE THE AREAS SHOWN AS "SLOPE LIMITS" ON THE GRADING AND DRAINAGE PLAN.
- 13. SEE ARCHITECTURAL DRAWINGS FOR SIDEWALK AND HANDICAPPED RAMPS, DETAILS AROUND THE BUILDING.
- 14. THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER FOR CLARIFICATION IF THERE ARE ANY SPOT ELEVATIONS ON THE GRADING AND DRAINAGE PLAN WHICH APPEAR TO BE AMBIGUOUS OR DO NOT MEET THE INTENT OF THE GRADING AND DRAINAGE
- 15. THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER FOR CLARIFICATION IF THERE ARE SIDEWALKS OR CONCRETE FLATWORK WHICH DOES NOT MEET ADA ACCESSIBILITY REQUIREMENTS. ALL SIDEWALKS SHALL HAVE A MAXIMUM CROSS SLOPE OF 2.0%, ALL SIDEWALKS SHALL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 5.0%, AND ALL RAMPS SHALL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 15:1.
- 16. ALL SIDEWALKS AND CONCRETE FLATWORK SHALL HAVE A MINIMUM OF 0.5% SLOPE. CONTRACTOR SHALL CONTACT PROJECT ENGINEER IF THERE ARE SIDEWALKS OR CONCRETE FLATWORK WHICH DO NOT MEET THIS REQUIREMENT.
- 17. THE CONTRACTOR SHALL SUBMIT MATERIAL SUBMITTALS, CUT SHEETS AND SHOP DRAWINGS FOR ALL CIVIL RELATED ITEMS FOR REVIEW PRIOR TO CONSTRUCTION.
- 18. THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS (UPDATE 8, AMENDMENT 1)
- 19. ALL EXISTING MANHOLES, VALVES AND METERS SHALL BE ADJUSTED TO NEW FINISH GRADE.
- 20. ALL STORM DRAIN PIPE SHALL CONSIST OF A DOUBLE WALLED HDPE STORM DRAIN PIPE WITH WATER TIGHT JOINTS.

HYDROLOGY CALCULATIONS

HYDROLOGY

Precipita	ation Zone 1	- 100-year Storm		P(360) = 2.20		in	P(1440) = 2.66			
	Basin	L	nent Factor							
Basin	Area	Α	В	С	D	Ew	V(100-6)	V(100-24)	Q(100)	
	(Ac)		(Acres)		(in)	(af)	(af)	(cfs)	
Existing Conditions										
Α	0.09	0.00	0.00	0.00	0.09	2.24	0.017	0.020	0.37	
Total	0.09								0.37	
Proposed Conditions										
Α	0.09	0.00	0.00	0.00	0.09	2.24	0.017	0.020	0.37	
Total	0.09								0.37	

SWQV (BASIN A) = 4,000 S.F. * 0.42"/12 = 140 CF

WATER HARVEST AREA

·-													
	WATER HARVEST AREA												
Pon	Pond Rating Table												
Side	Sk	оре											
Ele	٧.	Area		Volume	Cum Volume								
(ft)	(sq ft)	(ac)	(ac-ft)	(ac-ft)								
499	98	428	0.010	0	0								
499	99	813	0.019	0.014	0.014								
500	00	1340	0.031	0.025	0.039								
500	01	1525	0.035	0.033	0.072								

City of Albuquerque
Planning Department
Development Review Services
HYDROLOGY SECTION
APPROVED

DATE: 02/25/2025
BY: 02/25/2025
BY: C13D201

THE APPROVAL OF THESE PLANS/REPORT SHALL NOT BE
CONSTRUED TO PERMIT VIOLATIONS OF ANY CITY
ORDINANCE OR STATE LAW, AND SHALL NOT PREVENT
THE CITY OF ALBUQUERQUE FROM REQUIRNO
CORRECTION, OR ERRO RO DIMENSIONS IN PLANS,
SPECIFICATIONS, OR CONSTRUCTIONS, SUCH APPROVED PLANS
SHALL NOT BE CHANGED, MODIFIED OR A LITERED WITHOUT
AUTHORIZATION.

APPROVAL OF GRADING & DRAINAGE PLAN(S) SHALL EXPIR
TWO (2) YEARS AFTER THE APPROAL DATE BY THE CITY IF N
BUILDING DEPONT HAS BEEN BUILTED ON THE DEVEL OPMEN

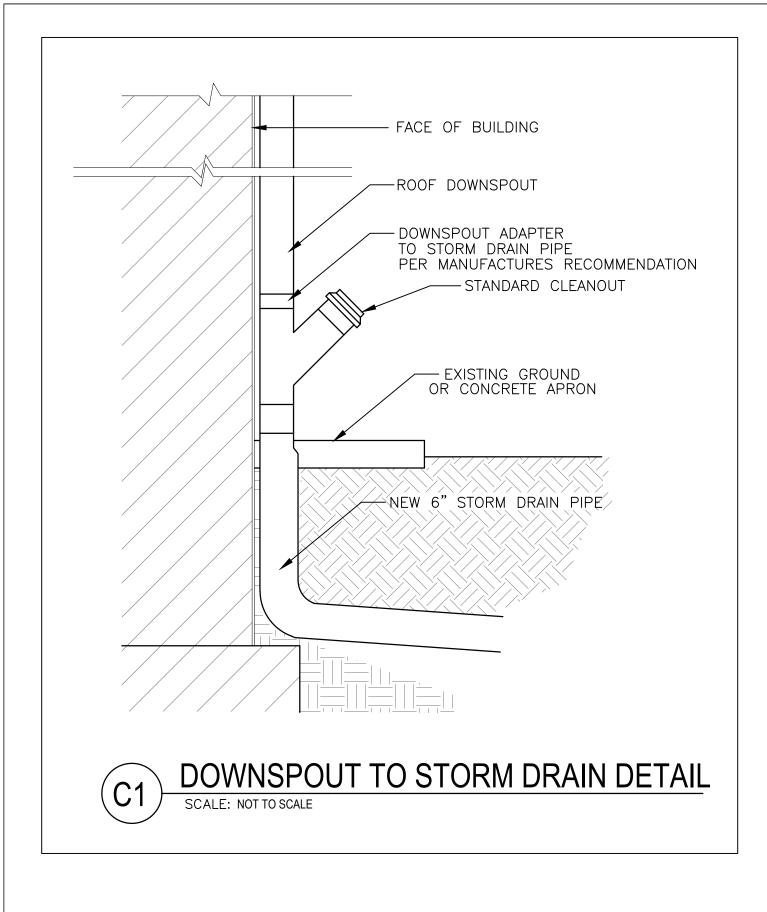
VICINITY MAP

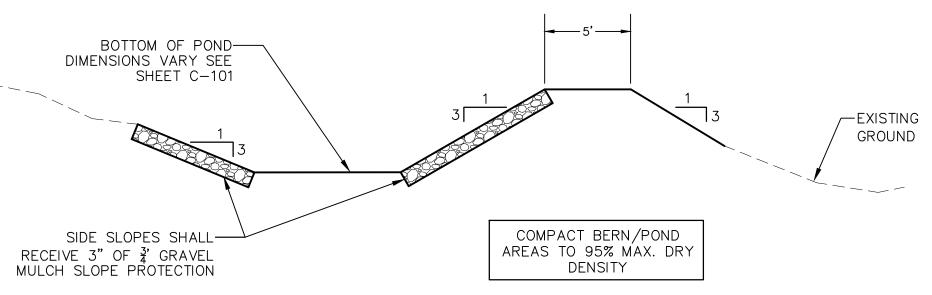
SCALE: NOT TO SCALE

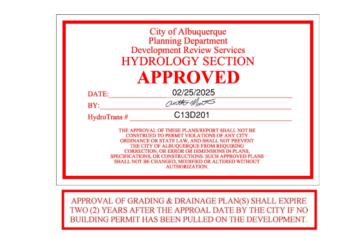
SCALE: NOT TO SCALE

RC **90** HYDROL

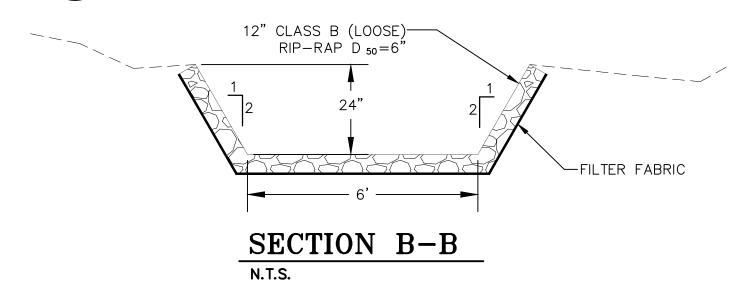
C - 100

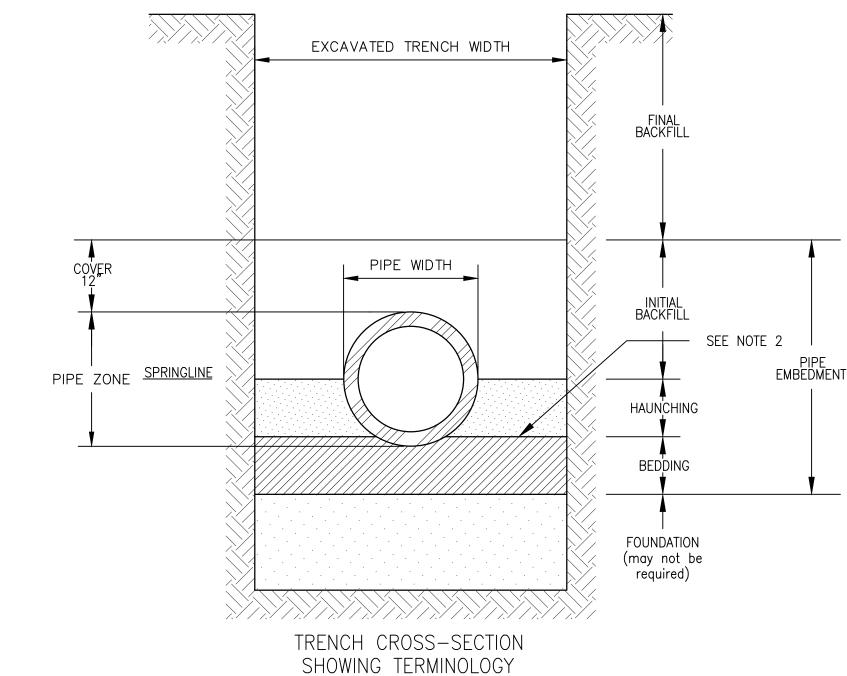












RC

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DE

MIS

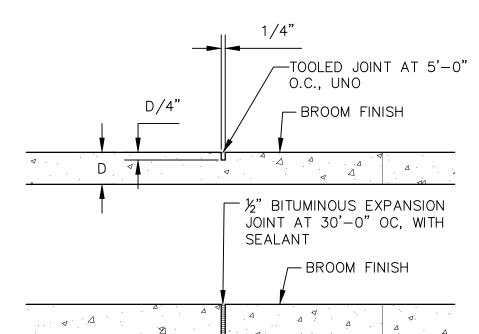
C - 501

C4 TRENCHING DETAILS SCALE: NOT TO SCALE

GENERAL NOTES:

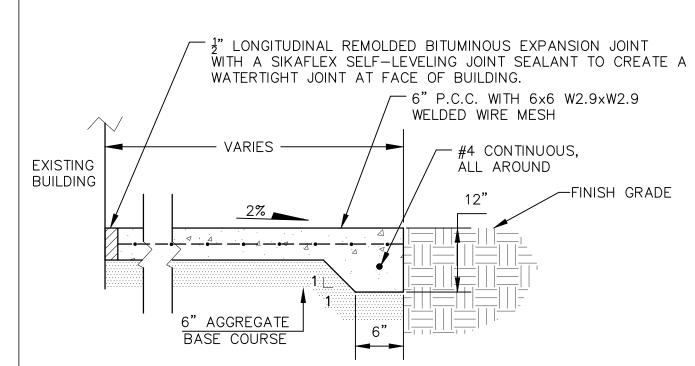
 MECHANICAL TAMPERS NOT TO BE USED IN THE INITIAL BACKFILL SECTION FOR FLEXIBLE PIPE.

2. MINIMUM CLASS "C" BEDDING WILL BE USED.

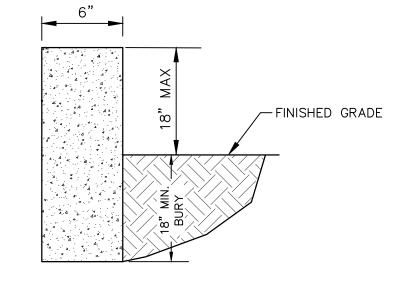


B1 CONCRETE SIDEWALK JOINTS SCALE: NOT TO SCALE

NOTE: CONCRETE JOINT PATTERNS SHALL BE SUBMITTED BY CONTRACTOR FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.



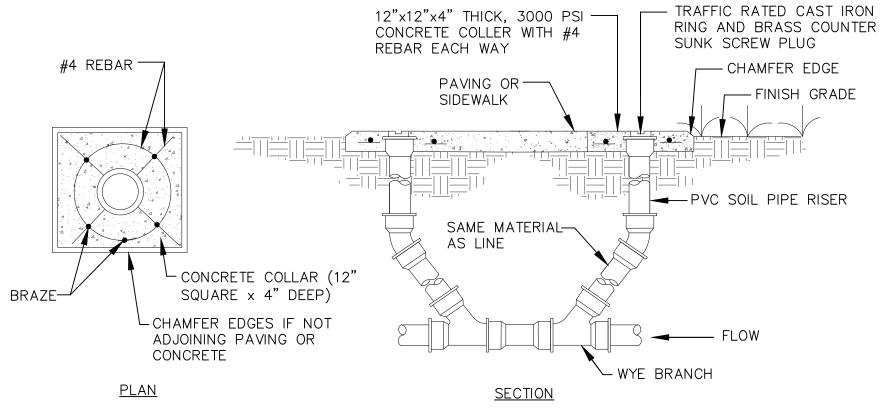
TURN DOWN AT SIDEWALK EDGE



B2) CONCRETE HEADER CURB DETAIL

DRAINAGE CHANNEL

SCALE: NOT TO SCALE



NOTE: THIS REBAR
CONFIGURATION IS USED FOR
ALL EXTERIOR C.O. COLLARS

(A2) TYPICAL DOUBLE CLEANOUT TO GRADE DETAIL

SCALE: NOT TO SCALE

