

CITY OF ALBUQUERQUE

Planning Department
David Campbell, Director



Mayor Timothy M. Keller

August 15, 2018

Ron Hensley, P.E.
GND Engineering
11032 Dreamy Way Dr. NW
Albuquerque, NM 87114

**RE: St Joseph on the Rio Grande Church
5901 St Joseph Dr NW
Grading and Drainage Plan
Engineer's Stamp Date: 8/10/18
Hydrology File: G11D014A**

Dear Mr. Hensley:

PO Box 1293

Based on the submittal received on 8/10/18, the Grading and Drainage Plan cannot be approved for Building Permit until the following are corrected:

Prior to Building Permit:

Albuquerque

1. Remove all "Conceptual/Not for construction" markings.
2. The top of grate elevation is shown as 12.56' but the surrounding grades are ~11.9'; the grate should be in the low spot.
3. All drainage structures (pipes, inlets spillways, ponds, outfalls, etc...) need to be sized and detailed in a drainage report including:
 - a. Delineation of on-site and off-site contributing watersheds and/or drainage basins.
 - b. Hydrology Calculations per DPM 22.2.
 - c. Hydraulic Calculations per DPM 22.3 documenting:
 - i. Inlet and pipe capacity, including 2x capacity for inlets in sump condition or a suitably sized overland flow path and profiles and HGL calculations.
 - ii. Channel capacity, channel details, and typical sections for any overland flowpaths/spillways.
 - iii. Details of each pond including typical sections, dimensions, and spot elevations. Volume calculations must be included for each pond based on the area of each contour using the conic method of volume calculations.

NM 87103

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CITY OF ALBUQUERQUE

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- iv. Pond routing calculations with hydraulic modeling and rating curves must be provided. Both the first flush WSEL and the 100-yr WSEL must be shown.
- v. Details of all pond outfall structures, including typical sections, dimensions, and spot elevations.

Prior to Work Order (For Information):

- 4. The sidewalk culverts will need to call-out std dwg 2236 and provide the culvert width; the diamond plates will need to be extended 1' past edge of sidewalk to avoid a drop-off. Because this is work in the ROW, no adjustments to the private grading plan are needed, but the work order plans will need to show these corrections.
- 5. A Bernalillo County Recorded [Agreement and Covenant](#) is required for the stormwater control pond (Atrisco Pond A2). The original notarized form, exhibit A, exhibit B (legible on 8.5x11 paper), and recording fee (\$25, payable to Bernalillo County) must be turned into DRC (4th, Plaza del Sol) for routing. Please contact Charlotte LaBadie (clabadie@cabq.gov, 924-3996) or Madeline Carruthers (mtafoya@cabq.gov, 924-3997) regarding the routing and recording process.
- 6. A public drainage easement is required for the stormwater control pond (Atrisco Pond A2) as it will be conveying public water.

PO Box 1293

Albuquerque

Prior to Certificate of Occupancy (For Information):

- 7. Engineer's Certification, per the DPM Chapter 22.7: *Engineer's Certification Checklist For Non-Subdivision* is required.
- 8. The Drainage Covenant must be recorded with Bernalillo County and a copy included with the Engineer's Certification.
- 9. City acceptance and close-out of the public Work Order will be required.
- 10. Payment of Fee-in-Lieu will be required for any ponding areas not constructed and certified.

NM 87103

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If you have any questions, please contact me at 924-3695 or dpeterson@cabq.gov.

Sincerely,

Dana Peterson, P.E.
Senior Engineer, Planning Dept.
Development Review Services



City of Albuquerque

Planning Department
Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

ST. JOSEPH ON THE

Project Title: RIO GRANDE CHURCH Building Permit #: _____ Hydrology File #: G11D014A

DRB#: _____ EPC#: _____ Work Order#: _____

Legal Description: TRACT X-1-A1 PLAT OF TRACTS X-1-A1 & X-1-A2 UNIV. OF ALB. URBAN CENTER

City Address: 5901 ST JOSEPH DR NW

Applicant: ST. JOSEPH ON THE RIO GRANDE CHURCH Contact: Del Dixon

Address: 4000 ST JOSEPHS PL NW ALBUQUERQUE NM 87120-1714

Phone#: 505-843-9639 Fax#: _____ E-mail: _____

Other Contact: GND LLC Contact: Ron Hensley

Address: 11032 Dreamy Way Dr. NW Albuquerque, NM 87114

Phone#: 505-410-1622 Fax#: _____ E-mail: ron@thegroup.cc

TYPE OF DEVELOPMENT: _____ PLAT (# of lots) _____ RESIDENCE _____ DRB SITE ☒ ADMIN SITE

IS THIS A RESUBMITTAL? _____ Yes _____ No

DEPARTMENT _____ TRANSPORTATION ☒ HYDROLOGY/DRAINAGE

Check all that Apply:

TYPE OF SUBMITTAL:

- ☐ ENGINEER/ARCHITECT CERTIFICATION
- ☐ PAD CERTIFICATION
- ☐ CONCEPTUAL G & D PLAN
- ☒ GRADING PLAN
- ☐ DRAINAGE REPORT
- ☐ DRAINAGE MASTER PLAN
- ☐ FLOODPLAIN DEVELOPMENT PERMIT APPLIC
- ☐ ELEVATION CERTIFICATE
- ☐ CLOMR/LOMR
- ☐ TRAFFIC CIRCULATION LAYOUT (TCL)
- ☐ TRAFFIC IMPACT STUDY (TIS)
- ☐ STREET LIGHT LAYOUT
- ☐ OTHER (SPECIFY) _____
- ☐ PRE-DESIGN MEETING?

TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

- ☒ BUILDING PERMIT APPROVAL
- ☐ CERTIFICATE OF OCCUPANCY
- ☐ 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
- ☐ GRADING PERMIT APPROVAL
- ☐ SO-19 APPROVAL
- ☐ PAVING PERMIT APPROVAL
- ☐ GRADING/ PAD CERTIFICATION
- ☐ WORK ORDER APPROVAL
- ☐ CLOMR/LOMR
- ☐ FLOODPLAIN DEVELOPMENT PERMIT
- ☐ OTHER (SPECIFY) _____

DATE SUBMITTED: _____ By: Ron Hensley - GND LLC

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____



CONSULTING ENGINEERS

10224 Green River Place NW Albuquerque, New Mexico 87114

Phone: 505-264-0472

Email: segreer@swcp.com

August 10, 2018

Hydrology Development
City of Albuquerque
PO Box 1293
Albuquerque, NM 87103

Re: G11D014A - Church of St. Joseph on the Rio Grande –Grading Plan for Building Permit

We are requesting a review of the Grading plan in support of the Building Permit for Church of St. Joseph on the Rio Grande. The plan covers the construction of the proposed drainage infrastructure of the site improvements.

Conceptual markings have been removed from the plan, and the following are in response to comments received on 6/12/18.

1. *A Drainage Covenant (No Public Easement) is required for the stormwater control pond (modified pond B). The original notarized form, exhibit A (legible on 8.5x11 paper), and recording fee (\$25, payable to Bernalillo County) must be turned into DRC (4th, Plaza del Sol) for routing..*

The Drainage Covenant has been submitted for routing.

2. *This project requires an ESC Plan, submitted to the Stormwater Quality Engineer.*

The ESC Plan has been submitted.

3. *Provide invert-out elevation for both outfalls into the private pond.*

The inverts are indicated.

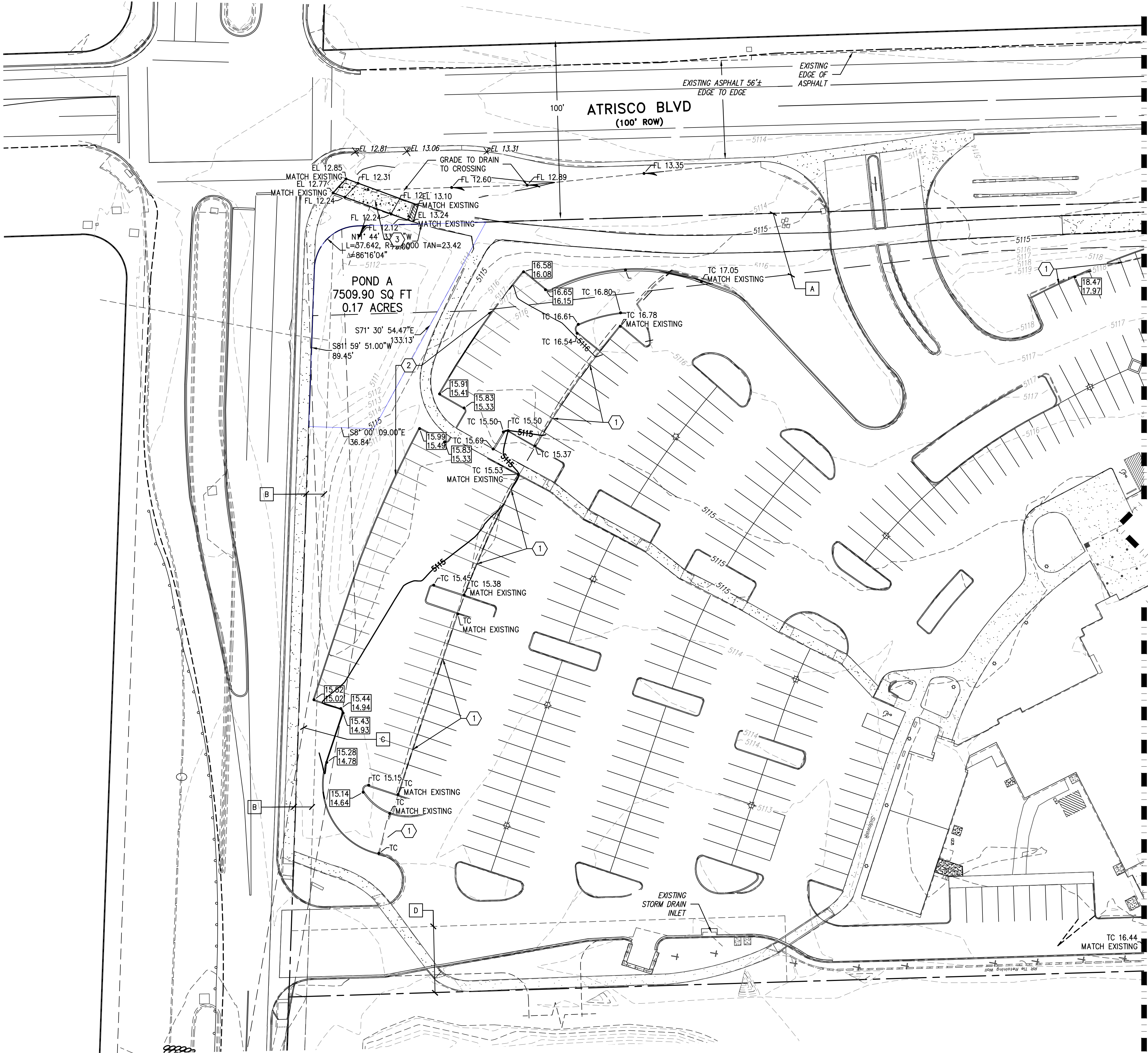
4. *Provide an emergency spillways or 2x capacity for the private storm drain; this is applicable when the inlets are in a sump conditions. Provide supporting calculations for the chosen options..*

An emergency overflow is indicated on the plan. In addition, the entire face of the pond at the cul de sac can act as an overflow for the inlet. The weir capacity of the 11' opening is 12.49 cfs, and the inlet flow is 11.77 cfs.

The additional requirements of Work Order will be addressed in subsequent submittals. Please contact me at 410-1622 or via email if you have any questions or comments.

Sincerely,

Ron E. Hensley P.E.
ron@thegroup.cc



NOTES

THE ENGINEER HAS UNDERTAKEN LIMITED FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UNDERGROUND UTILITY LINES, MAKES NO REPRESENTATION PERTAINING THERETO AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFORE. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY, AND PRESERVE ANY AND ALL EXISTING UTILITIES. THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES IN PLANNING AND CONDUCTING EXCAVATION, WHETHER BY CALLING OR NOTIFYING THE UTILITIES, COMPLYING WITH "BLUE STAKES" PROCEDURES, OR OTHERWISE.

THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.

THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, ARE INTENDED FOR USE ON THIS PROJECT AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF GND ENGINEERING, LLC. IN THE EVENT OF UNAUTHORIZED USE, THE USER ASSUMES ALL RESPONSIBILITY AND LIABILITY WHICH RESULTS.

GENERAL NOTES:

1. ALL WORK IN CITY RIGHT OF WAY WILL REUIRE CITY WORK ORDER SUBMITTAL.
2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER THIS CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREIN, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION, UPDATE NO. 8.
3. THE EROSION PROTECTION SPECIFIED ON THIS PLAN IS THE MINIMUM RECOMMENDED. THE OWNER IS ENCOURAGED TO INCORPORATE EROSION RESISTANT LANDSCAPING ON AREAS WHERE EROSION MAY OCCUR SUCH AS SLOPES AND SWALES. THE OWNER IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL FEATURES NECESSARY TO PRESERVE THE DESIGN INTENT OF THE GRADING PLAN.
4. THE DRAINAGE INFRASTRUCTURE SHOWN ON THIS PLAN IS THE RESPONSIBILITY OF THE PROPERTY OWNER.
5. ALL DISTURBED AREAS OUTSIDE THE BUILDING PAD MUST BE RESEEDD OR LANDSCAPED
6. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, (260-1990) FOR LOCATION OF EXISTING UTILITIES.
7. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS AND EXISTING PAVEMENT. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM OF DELAY.

EROSION CONTROL NOTES

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
4. REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL (CITY) ACCEPTANCE OF ANY PROJECT.

GRADING CONSTRUCTION NOTES

I.D.#	DESCRIPTION
1	NEW ASPHALT PAVING EDGE. CONTRACTOR TO SAW CUT EXISTING WITH EDGE TREATMENT FOR SMOOTH TRANSITION
2	INSTALL SPILL TYPE CURB AND GUTTER
3	REMOVE ASPHALT AND SIDEWALK CULVERT. INSTALL CONCRETE SWALE

LEGEND

- 12.11
11.61 TOP OF CURB ELEVATION
BOTTOM OF CURB ELEVATION
- EL=11.28 PROPOSED ELEVATION
- 66.33 EXISTING ELEVATION
- GRADE BREAK
- EXISTING CONTOUR
- EXISTING CONTOUR
- PROPOSED EASEMENT
- PROPOSED GRADE
- EXISTING WALL
- PROPOSED WALL

GND, LLC
CONSULTING ENGINEERS

11032 Dreamy Way Dr, NW
Albuquerque, NM 87114
Phone: (505) 264-0472

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP
ST. JOSEPH'S ON THE RIO GRANDE NAZARETH CENTER
SITE GRADING & DRAINAGE
CONCEPTUAL GRADING PLAN

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	Mo./DAY/YR.	Mo./DAY/YR.

KEYED EASEMENTS

Bicycle Path, Open Space Trail Link And Landscape Easement granted by plat filed March 12, 1998, in Plat Book 98C, Page 68.

GENERAL NOTES:

- ALL WORK IN CITY RIGHT OF WAY WILL REUIRE CITY WORK ORDER SUBMITTAL.
- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER THIS CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREIN, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION, UPDATE NO 8.
- THE EROSION PROTECTION SPECIFIED ON THIS PLAN IS THE MINIMUM RECOMMENDED. THE OWNER IS ENCOURAGED TO INCORPORATE EROSION RESISTANT LANDSCAPING ON AREAS WHERE EROSION MAY OCCUR SUCH AS SLOPES AND SWALES. THE OWNER IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL FEATURES NECESSARY TO PRESERVE THE DESIGN INTENT OF THE GRADING PLAN.
- THE DRAINAGE INFRASTRUCTURE SHOWN ON THIS PLAN IS THE RESPONSIBILITY OF THE PROPERTY OWNER.
- ALL DISTURBED AREAS OUTSIDE THE BUILDING PAD MUST BE RESEDED OR LANDSCAPED
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, (260-1990) FOR LOCATION OF EXISTING UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS AND EXISTING PAVEMENT. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM OF DELAY.

GRADING CONSTRUCTION NOTES

I.D.#	DESCRIPTION
1	NEW ASPHALT PAVING EDGE. CONTRACTOR TO SAW CUT EXISTING WITH EDGE TREATMENT FOR SMOOTH TRANSITION
2	ASPHALT REMOVAL AND UNSUITABLE FILL MATERIALS SHALL BE WASTED ON SITE IN NONSTRUCTURAL AREAS
3	INSTALL STANDARD CURB AND GUTTER PER DETAIL
4	INSTALL SPILL TYPE CURB AND GUTTER
5	INSTALL MOUNTABLE CURB AND GUTTER
6	INSTALL 10 - TURNED BLOCK WALL OPENINGS @ 48" O.C.
7	INSTALL VALLEY GUTTER AND CURB RETURNS PER CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS
8	INSTALL STANDARD CURB AND GUTTER PER CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS
9	12" CATCH BASIN
10	11" CURB OPENING - INLET OVERFLOW SPILLWAY

REQUIRED FIRST FLUSH VOLUME

OWNER SHALL BE RESPONSIBLE FOR MAINTAINING FIRST FLUSH RUNOFF RETENTION INDICATED. THE TOTAL VOLUME SHALL BE EQUAL TO:
IMPERVIOUS AREA * (0.44-0.10)/12 IN CUBIC FEET.

REQUIRED VOLUME = 350,710 * (0.44-0.10)/12 = 9,937 CU.FT.
VOLUME PROVIDED = 11,598 CU.FT.

LEGEND

	TOP OF CURB ELEVATION
	BOTTOM OF CURB ELEVATION
	PROPOSED ELEVATION
	EXISTING ELEVATION
	GRADE BREAK
	EXISTING CONTOUR
	PROPOSED EASEMENT
	PROPOSED GRADE
	EXISTING WALL
	PROPOSED WALL

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SITE GRADING & DRAINAGE
CONCEPTUAL GRADING PLAN

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	Mo./DAY/YR.	Mo./DAY/YR.
CITY PROJECT No.	ZONE MAP No.	SHEET	OF
	G-11-Z	2	2

ENGINEER'S SEAL

NOT FOR CONSTRUCTION
RON E. HENSLEY
NEW MEXICO
20507
AUG. 10, 2018

REVISIONS

NO.	DATE	REMARKS	BY
DESIGNED BY	REH	DESIGN	
DRAWN BY	REH		
CHECKED BY	REH		