# CITY OF ALBUQUERQUE



May 5, 2015

Verlyn Miller, PE Miller Engineering Construction 3500 Comanche NE Building F Albuquerque, NM 87107

RE: St. Peter and Paul Church, 5800 Ouray Road NW

Grading and Drainage Plan

**Engineer's Stamp Date 4-16-2015 (File: H11-D062)** 

Dear Mr. Miller:

Based upon the information provided in your submittal received 4-17-15, the above referenced plan is approved for DRB action on the Site Development Plan for Building Permit, and it is also approved for Building Permit. Please attach a copy of this approved plan in the construction sets when submitting for a building permit.

PO Box 1293

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 924-3924.

Albuquerque

New Mexico 87103

www.cabq.gov

Sincerely,

Jeanne Wolfenbarger, P.E. Senior Engineer, Planning Dept.

Development Review Services

Orig: Drainage file

c.pdf via Email: Recipient, Monica Ortiz

# DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(Rev. 01 06) PROJECT TITLE: STS. PETER AND PAUL CHURCH ZONE MAP DRG. FILE # H-11-7 DRB=: \_\_\_\_\_ EPC=: \_\_\_ WORK ORDER=: LEGAL DESCRIPTION: PORTION OF TRACT 360 UNITS (336 DISTOP 267) ZONE SU-1 CITY ADDRESS: 5800 OURAL N.W. ALBUQUERQUE, NM ENGINEERING FIRM: MILLER ENGINEERING CONS. CONTACT: VERLIND MILLER ADDRESS: 3500 COMANCHE NE BLOG. F. PHONE: 505 - 828-7500 ZIP CODE: 21107 CITY, STATE: ALB., NM 37107 OWNER: THE SOCIETY OF SAINT PIUS X CONTACT: FR. PATRICK RUTLEDGE. ADDRESS: 2331 MAIORN GRASS RD. N.W. PHONE: 816-753-0073 CITY, STATE: ALB. NM ZIP CODE: 87180 ARCHITECT: ORCUIT WINSLOW CONTACT: Tim Scolago PHONE: 602-257-1764 ZIP CODE: 85012 ADDRESS: 3003 N. CENTRAL AUE. 16TH FLOOR CITY, STATE: PHOENIX, AZ CONTACT: ADDRESS: PHONE: CITY, STATE: ZIP CODE: PROFESSIONAL LICENSED SURVEYOR SIGNATURE LICENSE NO. CONTRACTOR: CONTACT: ADDRESS: PHONE: CITY, STATE: \_\_ ZIP CODE: TYPE OF SUBMITTAL: CHECK TYPE OF APPROVAL SOUGHT: \_\_\_\_DRAINAGE REPORT SIA FINANCIAL GUARANTEE RELEASE DRAINAGE PLAN 1" SUBMITTAL PRELIMINARY PLAT APPROVAL DRAINAGE PLAN RESUBMITTAL S. DEV. PLAN FOR SUB'D APPROVAL CONCEPTUAL G & D PLAN S. DEV. FOR BLDG, PERMIT APPROVAL \_ GRADING PLAN SECTOR PLAN APPROVAL EROSION CONTROL PLAN FINAL PLAT APPROVAL FOUNDATION PERMIT APPROVAL ENGINEER'S CERT (HYDROLOGY) \_\_ CLOMR LOMR X BUILDING PERMIT APPROVAL TRAFFIC CIRCULATION LAYOUT CERTIFICATE OF OCCUPANCY (PERM) ENGINEER ARCHITECT CERT (TCL) CERTIFICATE OF OCCUPANCY (TEMP) ENGINEER ARCHITECT (DRB SITE PLAN) \_\_\_ GRADING PERMIT APPROVAL OTHER PAVING PERMIT APPROVAL WORK ORDER APPROVAL OTHER (SPECIFY) WAS A PRE-DESIGN CONFERENCE ATTENDED: YES \_\_NO COPY PROVIDED SLBMITTED BY: JOHN JACQUET

Requests for approvals of Site Development Plans and or Subdivision Plans shall be accompanied by a drainage submittal. The particular nature, location and scope to the proposed development define the degree of drainage detail. One or more of the following levels of submittal may be required based on the following.

- Conceptual Grading and Drainage Plan: Required for approval of Site Development Plans greater than five if acres and Sector Plans.
- 2. Drainage Plans: Required for building exemits professionality projection in the first fact file file. I were
- 3. Drainage Report: Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more.



April 15, 2015

City of Albuquerque Planning Department Development and Building Services P.O. Box 1293 Albuquerque, NM 87103

Attn: Jean Wolfenbarger, P.E., Senior Engineer, Planning Dept.

RE: St. Peter and Paul Church, 5800 Ouray Road NW

Grading and Drainage Plan

Engineers Stamp Date 3-20-2015 (File: H11-D062)

Dear Ms. Wolfenbarger:

This letter is in response to your comments by letter dated April 14, 2015. All of your comments have been addressed as follows:

 Highlight site on vicinity map, and show Basin A-1 and B-1 boundaries. In the Drainage Narrative, explain Basin A-1's ultimate discharge to the southwest corner of the property if this is the case.

Please see sheet c-100 for highlighted vicinity map. Please see sheet C-101 for the drainage basin boundaries. Please see c-100 under the conclusion for the description of Basin A-1 ultimate discharge to SW corner of property.

In discussion of off-site flows, also mention any impact of on-site drainage to the property to the west and east or lack there-of. Provide more existing spot elevations along the western and eastern boundaries of the site.

Please see c-100 under the off-site flows for impact of onsite flows to offsite properties. Please see c-101 for additional existing spot elevations.

3. For the new 12" pipe tie-in to the existing inlet at the southwest corner of the site, provide a downstream invert elevation and show the invert elevation of this existing inlet to ensure positive flow to the storm drain in Miami Road. Show and label existing storm drain in Miami Road and the tie to the existing storm drain in Miami Road.

Please see sheet C-101, for the information on the onsite existing storm drain inlet and the location of the offsite storm drain system.

4. Label curb cuts where needed in low spots within the newly paved areas. It looks like a curb cut needs to be called out where Keyed Note 13 calls out a riprap rundown from the parking lot.

Please see Sheet C-101 for the curb cut call out.

- 5. Keyed Note 17 for the storm drain is not called out on the plan view. *Please see Sheet C-101 for the key note call out.*
- 6. Is the top of grate elevation meant to be called out as 5100.70 on Keyed Note 16? If so, call it out, and double check on pipe cover since with the listed pipe invert elevation, it appears that the pipe cover is less than a foot.

Please see Sheet C-101 and C-102 for revised elevations.

Show capacities, discharge flows, and pipe slopes for all proposed on-site storm drain pipes.
 Show capacity of new on-site inlet. For any proposed curb cuts, also provide capacity calculations.

Please see attached hydraulic calculations for the capacity calculations.

8. For the proposed pond, label complete pond volume and WSEL Elevation. *Please see Sheet C-101 for additional pond information.* 

If you have any questions or need any additional information, please feel free to contact our office.

MILLER ENGINEERING CONSULTANTS, INC.

Verlyn A. Miller, P.E.

a soi

President

VAM:vam Enclosures

cc: File

# Worksheet for Grate Inlet In Sag - 3

Project Description		
Flow Element:	Grate Inlet In Sag	
Solve For:	Spread	
Innut Data		
Input Data	0.00	437
Discharge:	6.69	ft³/s
Gutter Width:	20.00	ft
Gutter Cross Slope:	0.04	ft/ft
Road Cross Slope:	0.04	ft/ft
Grate Width:	6.00	ft
Grate Length:	2.00	ft
Local Depression:	1.00	in
Local Depression Width:	6.00	ft
Grate Type:	P-50 mm (P-1-7/8")	
Clogging	50.00	%
Results		
Spread	14.98	ft
Depth:	0.52 < 0.9 : O.K.	ft
Gutter Depression:	0.00	ft
Total Depression:	0.08	ft
Open Grate Area:	5.40	$\mathrm{ft^2}$
Active Grate Weir Length:	8.00	ft

# **Culvert Calculator Report** 12" SD PIPE ON ST PETER PAUL

## Solve For: Discharge

Culvert Summary							
Allowable HW Elevation	5,101.60 ft	Headwater Depth/Height	3.32				
Computed Headwater Eleva	5,101.60 ft	Discharge	3.71	cfs X 2	= 7.4	2cfs > 6.69	
Inlet Control HW Elev.	5,099.84 ft	Tailwater Elevation	5,097.50	ft		0.67	-
Outlet Control HW Elev.	5,101.60 ft	Control Type	Outlet Control			: O. K.	
Grades							
Upstream Invert	5,098.28 ft	Downstream Invert	5,097.00	ft			
Length	292.00 ft	Constructed Slope	0.004384	ft/ft			
Hydraulic Profile	4			_			
Profile CompositeM2Pres		Depth, Downstream	0.82				
Slope Type	Mild	Normal Depth	N/A				
Flow Regime	Subcritical	Critical Depth	0.82				
Velocity Downstream	5.38 ft/s	Critical Slope	0.010827	ft/ft			
Section							
Section Shape	Circular	Mannings Coefficient	0.013				
Section Material	Concrete	Span	1.00	ft			
Section Size	12 inch	Rise	1.00	ft			
Number Sections	.1						
Outlet Control Properties							
Outlet Control HW Elev.	5,101.60 ft	Upstream Velocity Head	0.35	ft			
Ke	0.50	Entrance Loss	0.17				
Inlet Control Properties							
Inlet Control HW Elev.	5,099.84 ft	Flow Control	Submerged				
Inlet Type Square edge	w/headwall	Area Full	0.8	ft²			
K	0.00980	HDS 5 Chart	1				
M	2.00000	HDS 5 Scale	1				
C	0.03980	Equation Form	1				
Y	0.67000						

### Worksheet for Broad Crested Weir - 1

Project Description Flow Element	Broad Crested Weir (CULB	CUT-KEY NOTE 26)
Solve For	Discharge	( ( ( ) ( )
Input Data		
Headwater Elevation:	100.80	ft
Crest Elevation:	100.30	ft
Tailwater Elevation:	100.50	ft
Crest Surface Type:	Paved	
Crest Breadth:	2.00	ft
Crest Length:	3.00	ft
Results		
Discharge	(3.26)	ft³/s
Headwater Height Above Crest:	0.50	ft
Tailwater Height Above Crest:	0.20	ft
Weir Coefficient:	3.08	US
Submergence Factor:	1.00	
Adjusted Weir Coefficient:	3.08	US
Flow Area:	1.50	ft²
Velocity:	2.18	ft/s
Wetted Perimeter:	4.00	ft
Top Width:	3.00	ft

AREA DIZAINING TO CURB CUT (KN 26) 15 210×200 = 42000 SF = 0.96 AC WHICH 15 32% of BASIN B-1. 32% OF Q100=6.75 cfg = 2.13 cfg < 3.26 cfs

· · OK

# Worksheet for Copy of Broad Crested Weir - 1

Project Description			200	
Flow Element:	Broad Crested Weir	Cours	CUT-ICEY	NOTE 15)
Solve For:	Discharge			- 10/
Input Data				
Headwater Elevation:	100.29		ft	
Crest Elevation:	99.79		ft	
Tailwater Elevation:	100.00		ft	
Crest Surface Type:	Paved			
Crest Breadth:	2.00		ft	
Crest Length:	3.50		ft	
Results	_			
Discharge:	3.81		ft³/s	
Headwater Height Above Crest:	0.50		ft	
Tailwater Height Above Crest:	0.21		ft	
Weir Coefficient	3.08		US	
Submergence Factor:	1.00			
Adjusted Weir Coefficient:	3.08		US	
Flow Area	1.75		ft²	
Velocity	2.18		ft/s	
Wetted Perimeter	4.50		ft	
Top Width:	3.50		ft	

AREA DRAINING TO CURB CUT (KN 15)
15 37' X 270' = 99905F = 0.23AC
WHICH B 8% Of BASIN B-1.8%
of Q100=6.75 cfs=0.51 cfs< 3.81ds

From: <u>John Jacquez</u>

To: Wolfenbarger, Jeanne

Cc: <u>Verlyn Miller</u>

Subject: RE: H11-D062 (St. Peter and Paul Church)
Date: Monday, May 04, 2015 3:59:03 PM

### Jeanne,

The total volume to the pond is Basin B-1 = 0.249 AF (from our drainage calculations) and A-1 = 16437 cf = 0.38 AF (from Drainage Master Plan by Kevin Georges and Associates, engineers stamp dated July 25, 2000). Thus the total volume = 0.626 AF. This volume is contained at an elevation of approximately 5098.50 based on the pond rating table shown on sheet C-100.

Thanks for your assistance on this project and look forward to working with you on future projects.

### Thanks John

Best Regards, John Jacquez Project Manager Miller Engineering Consultants 3500 Comanche NE, Bldg. F Albuquerque, NM 87107 Phone: 505-888-7500

Fax: 505-888-3800

----Original Message-----From: John Jacquez

Sent: Tuesday, April 14, 2015 6:19 PM

To: 'Wolfenbarger, Jeanne' Cc: 'Verlynn Miller'

Subject: RE: H11-D062 (St. Peter and Paul Church)

### Thanks Jeanne.

Best Regards, John Jacquez Project Manager Miller Engineering Consultants 3500 Comanche NE, Bldg. F Albuquerque, NM 87107 Phone: 505-888-7500

Fax: 505-888-3800

----Original Message-----

From: Wolfenbarger, Jeanne [mailto:jwolfenbarger@cabq.gov]

Sent: Tuesday, April 14, 2015 4:18 PM

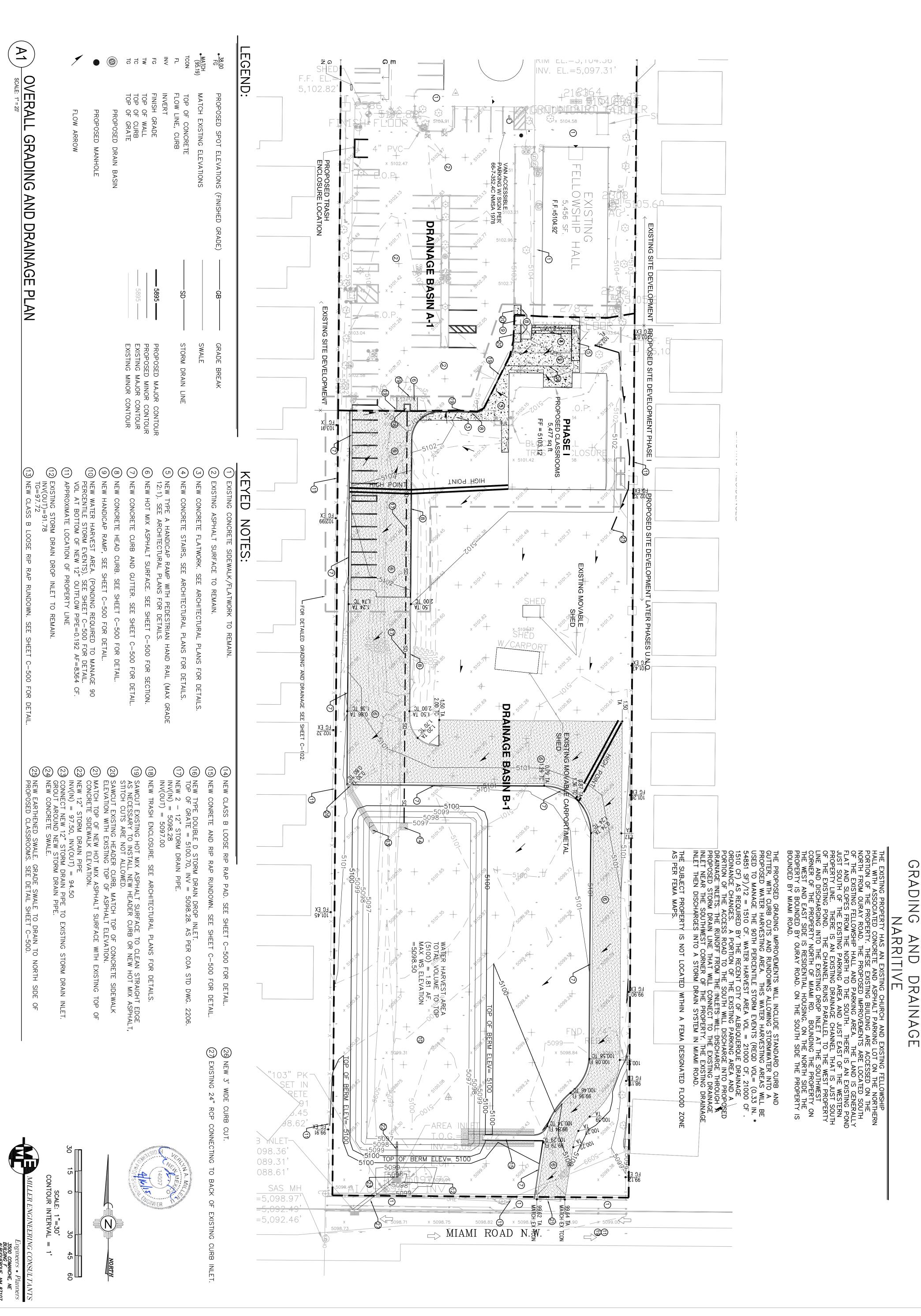
To: John Jacquez

Subject: H11-D062 (St. Peter and Paul Church)

John,

See attached comment letter for grading and drainage.

Jeanne



C-101

OVERALL GRADING AND DRAINAGE PLA

BUILDING PERMIT

2014\_003

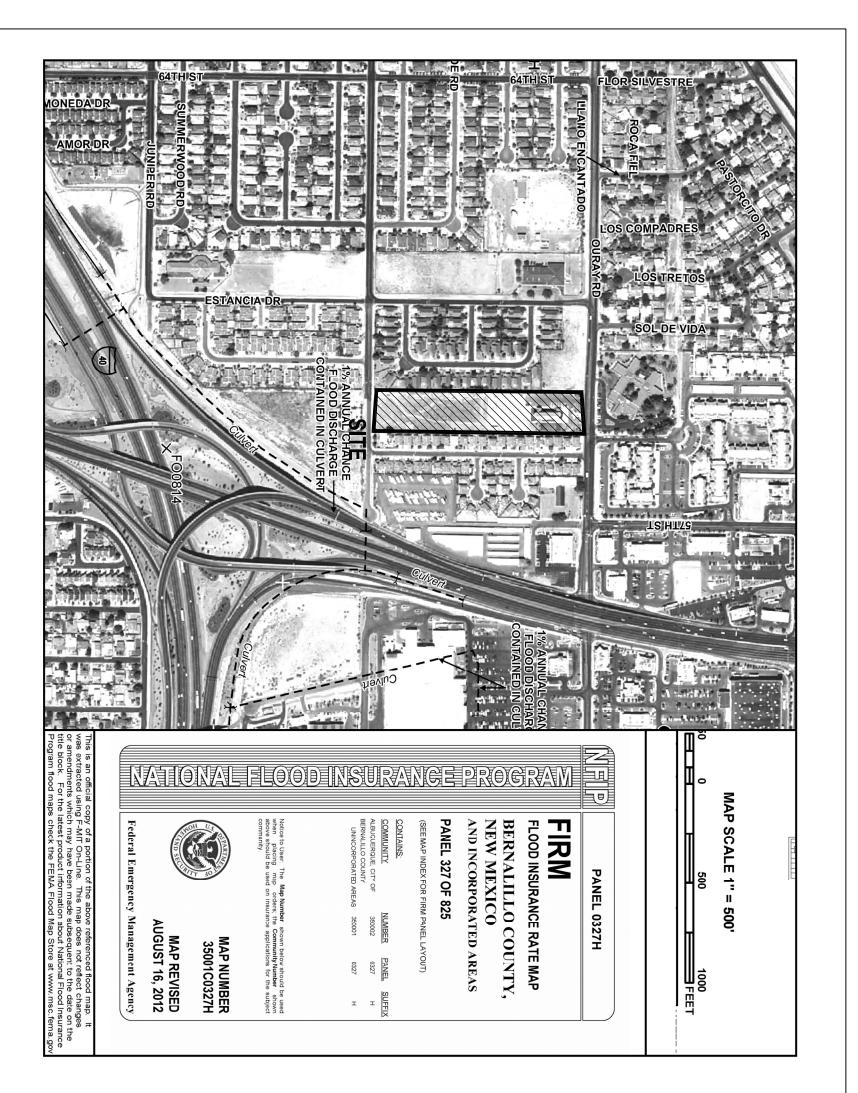
4 16 2015

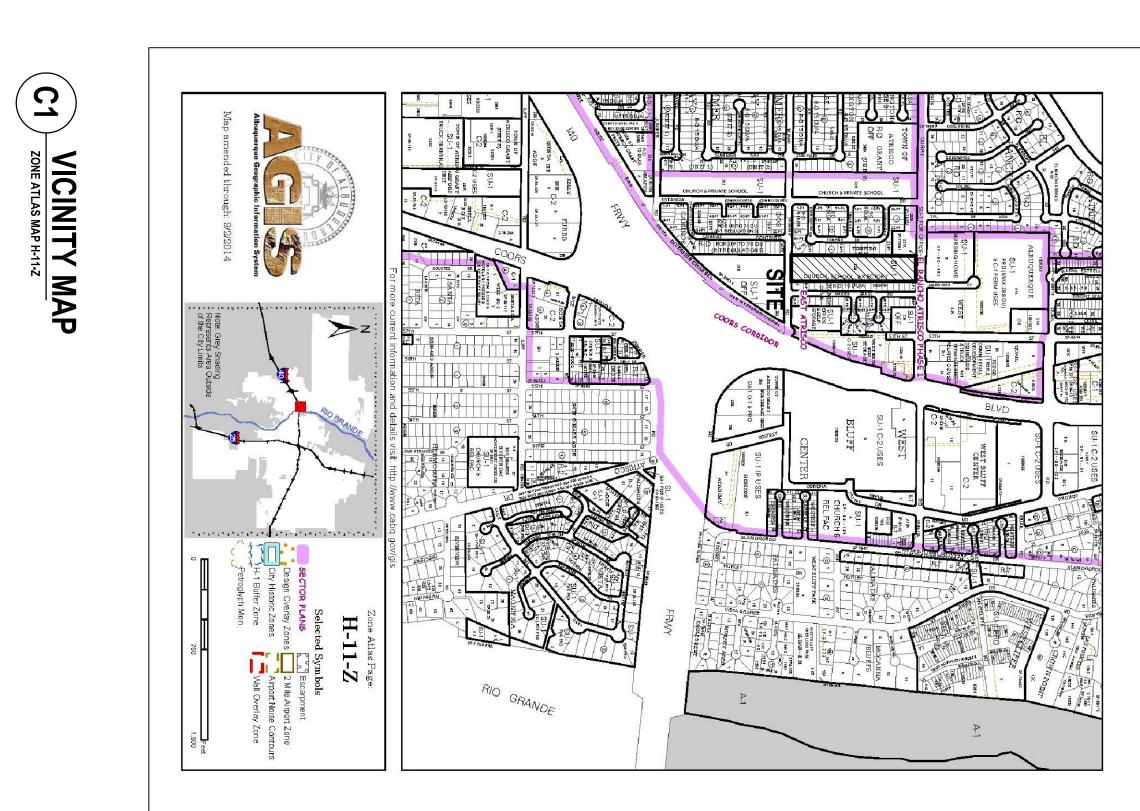
3.20.2015 4.16.2015

T:\Clients\ST PETER PAUL CHURCH\ACAD\BASE\xtopo.dwg, overall gd C-101, 4/17/2015 11:58:00 AM,

Society of St Pius X Sts. Peter & Paul Church School 5800 OURAY RD NW, ALBUQUERQUE, NM 87120 orcutt winslow

sixteenth floor phoenix az 850 mail@owp.com
602.257.1764
602.257.9029





THE PROPOSED CONDITIONS

THE PROPOSED DEVELOPMENT OF THE SITE WILL CONSIST OF ONE BUILDING (CLASSROOMS), ASSOCIATED CONCRETE FLATWORK, SIDEWALKS, STAIRS, ASPHALT PARKING AREA, CURB AND GUTTER, AND LANDSCAPING. THE IMPROVEMENTS ARE ALL LOCATED IN EXISTING DRAINAGE BASIN B-1. THE MAJORITY OF THE STORM WATER FLOW GENERATED FROM THE DEVELOPMENT OF THIS SITE WILL BE DRAINED VIA SURFACE FLOW ALONG NEW CURB AND GUTTER AND DISCHARGED INTO THE NEW WATER HARVEST AREA LOCATED ALONG THE WEST PROPERTY LINE. A PORTION OF EXISTING BASIN A IS BEING CAPTURED BY A NEW STORM DRAIN INLET THAT CONVEYS FLOWS INTO THE NEW WATER HARVEST AREA. EXISTING DRAINAGE FITHE DRAINAGE FOR BASIN B-1.

OFFSITE FLOWS

THERE ARE NO SIGNIFICANT OFFSITE FLOWS THAT DRAIN ONTO THE SITE. THE ONSITE BASINS FLOWS DO NOT IMPACT THE PROPERTIES TO THE EAST AND WEST.

10.

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."

CONCLUSION

RUNOFF VOLUME AND FLOW RATE
TREATMENTS FOR BASIN B-1 BY
INCREASED BY 2.82 CFS.

ACCORDING TO THE APPROVED MASTER GRADING AND DRAINAGE PLAN (H11/D062) FOR STS PETER AND PAUL TRADITIONAL CATHOLIC CHURCH BY MARVIN R. KORTUM DATED 7-25-2000 BASIN A-1 HAS AN DISCHARGE OF 6.69 CFS FOR ALL THE EXISTING IMPROVEMENTS ON THE SITE. BASIN A-1 DISCHARGES INTO THE NEW TYPE D DOUBLE STORM DRAIN INLET WHICH THEN DISCHARGES INTO THE NEW WATER HARVEST AREA. THE REPORT ALSO GENERATED AN ALLOWABLE DISCHARGE FOR BASIN B-1 OF 12.24 CFS (ASSUMED IMPERVIOUS AREA OF 85%), THEREFORE THE TOTAL ALLOWABLE DISCHARGE FIR THE SITE UNDER FULLY DEVELOPED CONDITIONS IS 18.93 CFS. WITH THE PROPOSED IMPROVEMENTS AS OUTLINED IN THE PLAN, A PEAK DISCHARGE FOR BASIN B-1 OF 6.75 CFS WILL BE GENERATED FOR THE 100 YEAR, 24 HOUR EVENT, ADDING THE EXISTING FLOW FROM BASIN A-1 (6.69 CFS+6.75 CFS) THE TOTAL FLOW GENERATED FOR THE SITE IS 13.44 CFS.

THIS IS LESS THAN THE ALLOWABLE DISCHARGE OF 18.93 CFS.

THE PROPOSED GRADING IMPROVEMENTS WILL INCLUDE STANDARD CURB AND GUTTER, RUNDOWNS, DRAIN PIPE AND CONCRETE SWALES ALLOWING STORMWATER INTO PROPOSED WATER HARVESTING AREA. THIS WATER HARVESTING AREAS WILL BE USED TO MANAGE THE 90TH PERCENTILE STORM EVENTS AS REQUIRED BY THE RECENT CITY OF ALBUQUERQUE DRAINAGE ORDINANCE CHANGES. (REQD VOL= (0.33 IN. \* 31985 SF)/12 = 880 CF. WATER HARVEST AREA TO THE BOTTOM OF THE 12" OUTFLOW PIPE IS 0.192 AF = 8364 CF, WHICH IS NEARLY 10 TIMES THE REQUIRED VOLUME. THE WATER HARVEST AREA IS SUBSTANCIALLY LARGER THAN IT NEEDS TO BE, THIS IS BECAUSE THE OWNERS ARE PLANNING ON UTILIZING THE WATER HARVEST AREA FOR A PLAYING FIELD.

0.108 ACRE AS A FEET RESULT OF CHANGES IN LAND AND THE PEAK FLOW RATE HAS

THE CONTRACTOR SHALL TAKE ALL APPROPRIATE ASONABLE MEASURES TO PREVENT SEDIMENT POLLUTANT LADEN STORM WATER FROM EXITING CONSTRUCTION. STORMWATER MAY BEIN A MANNER, WHICH COMPLIES WITH THE APIGRADING AND DRAINAGE PLAN. THE OWNER, CONTRACTOR AND/OR BUILDER WITH ALL APPROPRIATE LOCAL, STATE AND REGULATIONS AND REQUIREMENTS. EDERAL

3. THE CONTRACTOR SHALL TAKE ALL APPROPRIATI TO PREVENT THE MOVEMENT OF CONSTRUCTION SEDIMENT, DUST, MUD, POLLUTANTS, DEBRIS, WAS FROM THE SITE BY WIND, STORM FLOW OR ANY METHOD EXCLUDING THE INTENTIONAL, LEGAL TRANSPORTATION OF SAME IN A MANNER ACCEINTHE CITY. . THE CONTRACTOR S AREAS SHOWN AS DRAINAGE PLAN.

EXISTING ON SITE CONDITIONS

THE NORTHERN 2 ACRES OF THE SITE IS DEVELOPED WITH AN EXISTING CHURCH, ASPHALT PARKING, SIDEWALK AND A FELLOWSHIP HALL. THERE ARE SOME EXISTING UTILLTY LINES THAT SERVE THE EXISTING DEVELOPED PORTION OF THE SITE. THE REMAINING 3 ACRES IS UNDEVELOPED WITH A DRAINAGE CHANNEL AND AN EXISTING WATER HARVEST AREA. THE DEVELOPED PORTION OF THE SITE DRAINS INTO AN EXISTING WATER HARVEST AREA THE STORMWATER RUNOFF DRAINS THROUGH AN EXISTING WATER HARVEST AREA THE SITESTING STORM DRAIN INLET LOCATED NEAR THE SOUTHWEST CORNER OF THE SITE. THE UNDEVELOPED PORTION OF THE SITE SOUTHERLY DIRECTION VIA SURFACE FLOW AND EVENTUALLY DISCHARGES INTO THE STORM DRAIN INLET AT THE SOUTHWEST CORNER OF THE SITE. THE SITE IS ACCESSED (PRIMARY) FROM OURAY ROAD ON THE NORTH SIDE OF THE SITE. A MASTER GRADING AND DRAINAGE PLAN (H11-DO62) FOR STS PETER AND PAUL TRADITIONAL CATHOLIC CHURCH BY MARVIN R. KORTUM DATED 7-25-2000 WAS APPROVED IN 2001. THE REPORT DEFINES DRAINAGE BASINS, WHICH ARE IDENTIFIED AS BASIN A-1 (DEVELOPED PORTION) AND B-1 (UNDEVELOPED PORTION). THE DRAINAGE DATA ON THIS PAGE SUMMARIZES THE EXISTING PEAK DISCHARGE AND RUNOFF VOLUME FOR BASIN B-1. 6 4. TWO WORKING CONTRACTOR NERVICE 260-UTILITIES. CONTRACTOR SHALL OBTAIN A CITY OF ALBUQUERQUE, PRIOR CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SEDIMENT AND EROSION CONTROLDEVICES DURING THE CONSTRUCTION PHASE.

DAYS MUST -1990

S PRIOR TO ANY
CONTACT LINE I

Y EXCAVATION LOCATING OF EXISTING

GRADING TO ANY

PERM GRADI

THE SUBJECT PROPERTY IS LOCATED WITHIN ZONE X.

DESIGNATING AREAS DETERMINED TO BE
OUTSIDE THE 100-YEAR FLOOD PLANE ACCORDING TO THE
FLOOD INSURANCE RATE MAP, ALBUQUERQUE, NEW MEXICO
AND UNINCORPORATED AREAS PER MAP NO 35001C 0327H MAINTENANCE OF THESE RESPONSIBILITY OF THE PROPERTY SERVED. CONTRACTOR : SHALL FIELD VERIFY UTILITIES PRIOR TO BE

 $\dot{\infty}$ 

9.

CONSTRUCTION.

ALL EMBANKMENTS SHALL BE PLACED AND COLIFTS OF MAXIMUM OF 8". THE EMBANKMENT WETTED AND COMPACTED TO 95% OPTIMUM IT ASTM D1557 AND 95% UNDER ALL STRUCTURD DRIVEWAYS AND PARKING LOTS.

EXISTING TOPOGRAPHIC DATA SHOWN ON THESPROVIDED BY JEFF MORTENSEN AND ASSOCIAENGINEERING CONSULTANTS HAS UNDERTAKEN VERIFICATION OF THIS INFORMATION.

THE EXISTING PROPERTY HAS AN EXISTING CHURCH AND EXISTING FELLOWSHIP HALL WITH ASSOCIATED CONCRETE AND ASPHALT PARKING LOT ON THE NORTHERN PORTION OF THE PROPERTY. THESE EXISTING BUILDING ARE ACCESSED ON THE NORTH FROM OURAY ROAD. THE PROPOSED IMPROVEMENTS ARE LOCATED SOUTH OF THE EXISTING FELLOWSHIP HALL AND PARKING AREA. THE LAND IS GENERALLY FLAT AND SLOPES FROM THE NORTH TO THE SOUTH. THERE IS AN EXISTING POND JUST SOUTH OF THE EXISTING PARKING AREA AND JUST EAST OF THE WESTERN PROPERTY LINE. THERE IS AN EXISTING DRAINAGE CHANNEL THAT IS JUST SOUTH OF THE EXISTING POND. THE CHANNEL RUNS PARALLEL TO THE WEST PROPERTY LINE AND DISCHARGING INTO THE EXISTING DROP INLET AT THE SOUTHWEST CORNER OF THE PROPERTY NORTH OF MIAMI RD. BOUNDING THE PROPERTY ON THE WEST AND EAST SIDE IS RESIDENTIAL HOUSING. ON THE NORTH SIDE THE PROPERTY IS BOUNDED BY OURAY ROAD. ON THE SOUTH SIDE THE PROPERTY IS BOUNDED BY MIAMI ROAD.

 $\bigcirc$ 

ADING

Z

Z

RR

 $\triangleright$ 

THE PROPOSED GRADING IMPROVEMENTS WILL INCLUDE STANDARD CURB AND GUTTER, WITH CURB CUTS AND RUNDOWNS ALLOWING STORMWATER INTO A PROPOSED WATER HARVESTING AREA. THIS WATER HARVESTING AREAS WILL BE USED TO MANAGE THE 90TH PERCENTILE STORM EVENTS AS REQUIRED BY THE RECENT CITY OF ALBUQUERQUE DRAINAGE ORDINANCE CHANGES.(REQD VOL= (0.33 IN. \* 31985 SF)/12 = 880 CF. WATER HARVEST AREA TO THE BOTTOM OF THE 12" OUTFLOW PIPE IS 0.192 AF = 8364 CF, WHICH IS NEARLY 10 TIMES THE REQUIRED VOLUME. THE WATER HARVEST AREA IS SUBSTANCIALLY LARGER THAN IT NEEDS TO BE, THIS IS BECAUSE THE OWNERS ARE PLANNING ON UTILIZING THE WATER HARVEST AREA FOR A PLAYING FIELD. A PORTION OF THE EXISTING PARKING AREA AND A PORTION OF THE ACCESS ROAD TO THE SOUTH WILL DISCHARGE INTO PROPOSED DRAINAGE INLETS. THE RUNOFF FROM THE INLETS WILL DISCHARGE THROUGH A PROPOSED STORM DRAIN LINE THAT WILL CONNECT TO THE EXISTING DRAINAGE INLET NEAR THE SOUTHWEST CORNER OF THE PROPERTY. THE EXISTING DRAINAGE INLET THEN DISCHARGES INTO A STORM DRAIN SYSTEM IN MIAMI ROAD. > AS

0) - 2.20	Ξ	1 (1770)-	2.00	Ξ		1001011011
actors						Basir
D	Ew	V(100-6)	V(100-6) V(100-24) Q(100)	Q(100)	Basin	Area
	(in)	(af)	(af)	(cfs)		(Ac)
					Existing	Existing Condition
0.0	0.00   0.44   0.112   0.112	0.112	0.112	3.93	 B-1	3.05
				3.93	 Total	3.05
					 Propose	Proposed Condit
0.7	0.74   0.87   0.220   0.249	0.220		6.75	B-1	3.05
			ı			

Precipitation Zone 1 
Basin
Basin
Area
(Ac)
Existing Conditions
B-1
3.05
Total
Area
3.05
Total
3.05
Area
4.00
Area

≻l

Total	B-1	Propose	Total	B-1	Existing		Basin		Precipita
3.05	3.05	roposed Conditions	3.05	3.05	Existing Conditions	(Ac)	Area	Basin	Precipitation Zone 1 - 10-year Storm
	1.58			3.05			≻		- 10-year S
	0.73			0.00		(Acres)	В	_and Treatr	torm
	0.00			0.00		<u>w</u>	C	Land Treatment Factors	P(360)=
	0.74			0.00			D	S	1.47 in
	0.39			0.08		(in)	E		'n
	0.100			0.020		(af)	V(10-6)		P(1440)=
	0.119			0.020		(af)	6) V(10-24) Q(10		1.78 in
3.07	3.07		0.73	0.73		(cfs)	Q(10)		Ξ

POND RATING

TABLE

Steve O'Dell 11485 N. Farley 2014\_003

BP Submittal

Society of St Pius X Sts. Peter & Paul Church School 5800 OURAY RD NW, ALBUQUERQUE, NM 87120

THE CONTRACTOR SHALL SUBMIT MATERIAL SUBMITTALS, CUTSHEETS AND SHOP DRAWINGS FOR ALL CIVIL RELATED ITEMSFOR REVIEW PRIOR TO CONSTRUCTION.

GRADING AND DRAINAGE REPORT

BUILDING PERMIT

1. WELDED WIRE FABRIC FABRIC FOR CONCRETE REINFORCEMENT. TO ASTM

3. THE CONTRACTOR SHALL HAUL AND DISPOSE OF ALL CONCRETE RUBBLE AND OTHER REMOVALS TO AN ENVIRONMENTALLY SUITABLE LOCATION. THE CONTRACTOR SHALL CONFINE HIS OPERATIONS TO THE CONSTRUCTION LIMIT THIS PROJECT AND WILL BE RESPONSIBLE FOR ANY PRIVATE AGREEMENTS CESSARY TO EXECUTE THIS CONTRACT. THE CONTRACTOR WILL BE RESPONSIBLE RESPONSIBLE RANY DAMAGES CAUSED BY HIS EQUIPMENT TO PUBLIC OR PRIVATE PROPERTY.

4. THE LOCATION OF ALL UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO EXCAVATION. THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES 48 HOURS BEFORE COMMENCING WORK IN THE AREAS NEAR UNDERGROUND UTILITY LINES. CONTRACTOR SHALL NOT INTERFERE WITH UTILITY LINE OPERATION AND SHALL COORDINATE ALL WORK AFFECTING EXISTING UTILITIES WITH THE APPROPRIATE AUTHORITY FOR EACH UTILITY, AND THE ENGINEER SHALL BE PROMPTLY NOTIFIED OF ANY PROBLEMS OR CONFLICTS ENCOUNTERED.

6. TOPOGRAPHIC DATA, BENCHMARKS, REFERENCE POINTS, P.I.'S, STRUCTURE TIES, AND ALL OTHER MISCELLANEOUS SURVEY INFORMATION WAS OBTAINED FROM PREVIOUS FIELD SURVEYS. IT IS ENTIRELY POSSIBLE THAT THESE POINTS MAY NO LONGER EXIST IN THE FIELD. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY REESTABLISH ANY MISSING BENCH MARKS, REFERENCE POINTS, OR P.I.'S REQUIRED FOONSTRUCTION OF THIS PROJECT AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL VERIFY BETWEEN ADJACENT REFERENCE POINTS, BENCH MARKS, AND P.I.'S PRIOR TO THEIR USE IN CONSTRUCTING THIS PROJECT TO ASSURE THE INTEGRITY OF EACH POINT.

7. CONTRACTOR SHALL OWNER/ARCHITECT. COORDINATE SITE ACCESS AND STAGING AREA W|TH

8. TH ALL U RESPO 9. THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE N.M.A.P.W.A. (AMERICAN PUBLIC WORKS ASSOCIATION) NEW MEXICO CHAPTER, AND THE SPECIFICATIONS IN THE PROJECT MANUAL UNLESS OTHERWISE STATED. THE CONTRACTOR SHALL USE CAUTION AT ALL EXISTING STRUCTURES INCLUDING \_ UNREINFORCED MASONRY WALLS, BUILDINGS, ETC.. THE CONTRACTOR WILL BE SPONSIBLE FOR ANY DAMAGE TO ANY STRUCTURES, DRIVEWAYS, LIGHT FIXTURES, D WATER METERS, ETC.. AND SHALL REPAIR THE DAMAGES AT HIS OWN EXPENSE

10. TH WHEN ABUTTING NEW ASPHALT TO EXISTING ASPHALT, SAW A NEAT STRAIGHT LINE TO MATCH NEW ASPHALT DEPTH. THE CONTRACTOR SHALL DETERMINE AND COMPLY WITH ALL L, STATE AND FEDERAL REGULATIONS AND REQUIREMENTS. CUT APPROPRIATE **EXISTING** 

12. DURING THE CONSTRUCTION OF THIS PROJECT, SOME OVERHEAD AND/OR UNDERGROUND UTILITY ADJUSTMENTS MAY HAVE TO BE ACCOMPLISHED CONCURRENTLY BY THE UTILITY OWNERS (COUNTY AND/OR PRIVATELY OWNED). CONTRACTOR SHALL COORDINATE AND ADVISE THE UTILITY OWNERS, ALLOWING ENOUGH TIME SO THAT THE REQUIRED UTILITY ADJUSTMENTS DO NOT IMPEDE THE CONTRACTOR'S WORK. THE CONTRACTOR SHALL RECEIVE NO ADDITIONAL COMPENSATION FOR ANY DELAYS, INCONVENIENCE, OR DAMAGE SUSTAINED DUE ANY INTERFERENCE FROM SAID UTILITY APPURTENANCES.

WATER DISCHARGES FROM CONSTRUCTION PROJECTS (COMMON PLANS OF DEVELOPMENT)
THAT WILL RESULT IN THE DISTURBANCE (OR RE-DISTURBANCE) OF ONE OR MORE ACRES, INCLUDING EXPANSIONS OF TOTAL LAND AREA. THE DEVELOPER SHOULD BE MADE AWARE THAT THE USEPA REQUIRES THAT ALL "OPERATORS" (SEE FEDERAL REGISTER/VOL. 63, NO. 128 / MONDAY, JULY 6, 1999 PG 36509) OBTAIN NPDES PERMIT COVERAGE FOR CONSTRUCTION PROJECTS. GENERALLY THIS MEANS THAT AT LEAST TWO PARTIES WILL REQUIRE PERMIT COVERAGE. THE OWNER/DEVELOPER OF THIS CONSTRUCTION PROJECT WHO HAS OPERATIONAL CONTROL OVER THE PROJECT SPECIFICATIONS, THE GENERAL CONTRACTOR WHO HAS DAY-TO-DAY OPERATIONAL CONTROL OF THOSE ACTIVITIES AT THE SITE, WHICH ARE NECESSARY TO ENSURE COMPLIANCE WITH THE STORM WATER POLLUTION PLAN AND OTHER CONDITIONS, AND POSSIBLY OTHER "OPERATORS" THAT WILL REQUIRE APPROPRIATE NPDES PERMIT COVERAGE FOR THIS PROJECT. THE CONTRACTOR WAINTAINING ALL BEST MANAGEMENT PRACTICES (BPM'S) AND TEMPORARY SEDIMENT AND ERNOSION CONTROL MEASURES SPECIFIED IN THE SWPPP DOCUMENT.

4. ALL ASPHALT PAVED SURFACES SHALL H CONTRACTOR SHALL FIELD VERIFY AND NOTIF VAVED SURFACES SLOPES ARE LESS THAN 1. HAVE A FY THE .00% PF MINIMUM PROJECT PRIOR TO C A SLOPE OF 1 T ENGINEER II CONSTRUCTION THE ASPHALT

SHEET

No.

SHEET TITLE

CG

0

GENERAL

NOTES,

℅

DRAWING

15. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING EXISTING ASPHALT PAVITHERE SHALL BE NO PAVEMENT CUTS, UNLESS PAVEMENT CUTS ARE EXPLICITLY NEED SAWCUT ASPHALT OR CURB AND GUTTER TO A CLEAN, STRAIGHT EDGE. REPLACE SECTIONS AND MATCH TO EXISTING SECTIONS OF ASPHALT, CONCRETE, BASE COURSE, AND/OR SUBGRADE PREPARATION. REMOVE AND REPLACE ANY AREAS OF DISTURBED LANDSCAPING. CONTRACTOR SHALL SUBMIT NEW SECTION TO PROJECT ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION. ANY DAMAGE TO THE ASPHALT DUE TO CONSTRUCTION ACTIVITY WILL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.

 $\bigcirc$ 

 $\mathcal{O}$ 

0

DETAILS

DETAILS

 $\bigcirc$ 

500

 $\bigcirc$ 

103

 $\mathbf{C}$ 

-102

 $\bigcirc$ 

-101

GRADING AND

DRAINAGE

 $\mathsf{C}$ 

-100

16. ACCESS TO / SHALL BE KEPT WITH THE PROPE THE PROJECT EN ALL LOCAL E OPEN AT AL ERTY OWNERS BUSINESSES (INCLUDING LL TIMES. ANY ACCESS S AT LEAST 48 HOURS BE SO

17. ALL ASPHALT ARE PROVIDED BY SHALL ENSURE THE COMPLIANCE WITH FOR ASPHALT AN INFORMATION. AVEMENT, BASE COURSE AND SUBGRADE PREPARATION THICKNESSES THE GEOTECHNICAL REPORT FOR THIS PROJECT. THE CONTRACTOR T ALL ASPHALT AND CONCRETE PAVING SECTIONS ARE IN THE GEOTECHNICAL REPORT FOR THIS PROJECT. SEE SHEET C-501 CONCRETE PAVING SECTIONS, AND GEOTECHNICAL REPORT

. NOT USED . MAINTENANCE E OWNER(S) OI

20. PROJECT BEN BY VIGIL AND AS SURVEY PERFORN 2532, CORRALES, ARE AS SHOWN ON TOPOGRAPHIC SURVEY PROVIDE ARCHITECTS AND PREPARED BY TOPOGRAPHIC OMPILED BY TERRA LAND SURVEYS, LLC. P.O. BOX

21. ALL EXISTING A TOPOGRAPHIC CONSULTANTS HA TOPOGRAPHIC DATA SHOWN ON THESE PLANS HAS BEEN OBTAINED SURVEY PROVIDED BY TERRA LAND SURVEYS. MILLER ENGINEERING AS NOT UNDERTAKEN ANY FIELD VERIFICATION OF THIS INFORMATION.

PROVIDE MATERIAL CONSTRUCTION, SUBMITTALS ON ALL CIVIL

D AREAS, NOT ADDRESSED BY ARCHITE RECEIVE CLASS "A" SEEDING. ANY P SLOPE SEEDING. THE STEEP SLOPE COCONUT FIBER BLEND EROSION BLANK MATERIALS, EQUIPMENT AND LABOR AS SEEDING WILL BE CONSIDERED INCIDENTIALS.

ARCHITECTURAL LANDSCAPE PLAN WITH SLOPES OF LESS

IG. ANY SLOPES THAT ARE 3:1 OR STEEPER SLOPES SHALL

SLOPE SEEDING SHALL CONSIST OF SEEDING IN CONJUNCTION

N BLANKET (NORTH AMERICAN GREEN C125) OR APPROVED

ABOR ASSOCIATED WITH THE PROPER CONSTRUCTION OF THE

INCIDENTAL AND NO SEPARATE MEASUREMENT OR PAYMENT

THE COCONUT FIBER EROSION BLANKET AND ASSOCIATED

CANCE WITH MANUFACTURES'S DECOMMENDATIONS AND

22. THE CONTRACTIONS FOR REVIEWS FOR REVIEWS FOR STORM WOR IMPROVEMENT: WATER FLOWS IN CONTRACTOR. CONSTRUCTION OF THIS PROJECT, THE CONTRACTOR WILL BE R ANY TEMPORARY DRAINAGE MEASURES NECESSARY TO SAFELY WATER RUNOFF. ANY DAMAGES TO PUBLIC OR PRIVATE PROPERTIS CONSTRUCTED BY THE CONTRACTOR RESULTING FROM STORM THE PROJECT VICINITY SHALL BE THE SOLE RESPONSIBILITY OF

24. ALL SIDEWALI CONTRACTOR SHA CROSS SLOPES A LANDSC LKS SHALL HAVE A MAXIMUM CROSS SLOPE OF 2%. THE ALL FIELD VERIFY AND NOTIFY THE PROJECT ENGINEER IF ARE GREATER THAN 2% PRIOR TO CONSTRUCTION. APING PLANS AND SPECIFICATIONS FOR ALL

26. THE CONTRACAND MAINTAIN ALACCORDANCE WITH (WORKING AND NOTHER CONTRACTOR THE PROJECT ENCREQUIREMENTS OF REQUIREMENTS OF REGUIREMENTS OF REQUIREMENTS OF REGUIREMENTS OF RE N ALL TRAFFIC CONTROL DEVICES AND CONSTRUCTION SIGNING IN

WITH THE "MUTCD" (LATEST EDITION) DURING THE CONSTRUCTION PERIOD NON—WORKING HOURS). ANY NECESSARY DEVIATION FROM THE "MUTCD" PRIOR APPROVAL OF THE PROJECT ENGINEER OR CONSTRUCTION INSPECTOR. CTOR SHALL SUBMIT A COPY OF THE PROPOSED TRAFFIC CONTROL PLAN TO ENGINEER PRIOR TO CONSTRUCTION. THIS PLAN SHALL SATISFY THE SFOR PUBLIC SAFETY AND TRAVELING PUBLIC AS WELL AS THE SOF "MUTCD" AND SHALL BE REVISED AS NECESSARY TO MEET THE OTRAFFIC SHALL BE KEPT IN GOOD RIDING CONDITION AND CLEAR OF TRAFFIC. THE SAFETY AND COMFORT OF THE TRAVELING PUBLIC AND TRAFFIC. THE SAFETY AND COMFORT OF THE TRAVELING PUBLIC AND TRAFFIC. THE SAFETY AND COMFORT OF THE TRAVELING PUBLIC AND TRAFFIC. THE SAFETY AND COMFORT OF THE TRAVELING PUBLIC AND TRAFFIC.

27. THE CONTRACONSTRUCTION. FIELD VERIFY LOCATION AND SIZE OF

28. ALL STORM MANUFACTURERS AND RELATED APPURTENANCES SHALL BE INSTALLED PER

(HDPE) WITH WATER TIGHT

30. TOPOGRAPHIC MISCELLANEOUS SUENTIRELY POSSIBLE CONTRACTOR'S SOPOINTS, OR P.I.'S OWNER. THE CONAND P.I.'S PRIOR EACH POINT. C DATA, BENCHMARKS, REFERENCE POINTS, P.I.'S, STRUCTURE TIES, AND ALI SURVEY INFORMATION WAS OBTAINED FROM PREVIOUS FIELD SURVEYS. IT IS SURVEY INFORMATION WAS OBTAINED FROM PREVIOUS FIELD. IT SHALL BE COLE RESPONSIBILITY TO RE—ESTABLISH ANY MISSING BENCH MARKS, REFERE SEQUIRED FOR CONSTRUCTION OF THIS PROJECT AT NO ADDITIONAL COST ONTRACTOR SHALL VERIFY BETWEEN ADJACENT REFERENCE POINTS, BENCH METALL VERIFY BETWEEN ADJACENT REFERENCE POINTS.

CONTRACTOR INSTALLATION SHALL VERIFY ALL WITH THE COUNTY PIPE LENGTHS, SLOPES AND LOCATIONS INSPECTOR AND THE PROJECT ENGINEER. PRIOR TO

CONNECTION: DISSIMILAR PIPING

33. THE CONTRACTOR ASPT L BE RESPONSIBLE FOR MAINTAINING EXISTING IALT DUE TO CONSTRUCTION ACTIVITY WILL BE EXPENSE.

THE CONTRAC SPOT ELEVAT DO NOT MEE CONTACT THE PROJECT ENGINEER FOE GRADING AND DRAINAGE PLAN WHIT OF THE GRADING AND DRAINAGE P

# GENERAL

EXISTING ASPHALT SURFACES FOR NEW WORK, THE AMAGED ASPHALT TO MATCH EXISTING ADJACENT SURFACES HITECT OF ANY CONFLICT W/ SITE UTILITIES OR FEATURES OF WITH THE WORK

SS AND STAGING AREA WITH OWNER/ARCHITECT NECESSARY TO PROTECT FROM DAMAGING EXISTING UTILITY NECESSARY TO PROTECT FROM DAMAGING EXISTING UTILITY WILL REMAIN AS PART OF THE FINAL SYSTEM. CONTRACTOR MS AS REQUIRED TO PRE—CONSTRUCTION CONDITION ATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.

TE WITH THE ABCWUA ON ANY UTILITY CONSTRUCTION AT ISTRUCTION. TANDARD DRAWINGS AND SPECIFICATIONS AND THE SOTHERWISE STATED FOR WATER AND SANITARY

A. AT AREAS OF CUTTING AND TRENCHING AT EXISTING ASPHALT SURIC CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY CONFLICT OBTAIN RESOLUTION PRIOR TO PROCEEDING WITH THE WORK C.CONTRACTOR SHALL COORDINATE SITE ACCESS AND STAGING AREA D.CONTRACTOR SHALL TAKE PRECAUTIONS AS NECESSARY TO PROTECLINES, WALKS, LANDSCAPING, ETC. WHICH WILL REMAIN AS PART O SHALL REPAIR AND/OR RESTORE THESE ITEMS AS REQUIRED TO P. E. CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF EXISTING UTILITY FOR CONTRACTOR SHALL ADHERE TO THE ABCWUA STANDARD DRAWING SPECIFICATIONS IN THE PROJECT MANUAL UNLESS OTHERWISE STANDARD TO THE THE ABCWUA SEVERY UTILITY WORK.

G. CONTRACTOR SHALL ADHERE TO THE WATER AND SEWER SERVICE AND SEWER UTILITY WORK.

H.IF THERE IS A CONFLICT BETWEEN PROPOSED SEWER SERVICE AND SEWER UTILITIES SHOWN ARE APPILIFABLY OF ALL UNDERGROUND UTILITIES SHOWN ARE APPILIFABLY OF AND SEMENT DRAWING TO THE INDICATIONS OF THIS DRAWING TO INTERPRET EXTENT OF WORK. THE CONTRACTOR SHALL NOTIFY BEFORE COMMENCING WORK IN THE AREAS NEAR UNDERGROUND UNITERFERE WITH UTILITY LINE OPERATION AND SHALL COORDINATE ADJUSTMENTS MAY HAVE TO BE ACCOMPLISHED CONCURRENTLY BY PRIVATE AND ADJUSTMENTS MAY HAVE TO BE ACCOMPLISHED CONCURRENTLY BY PRIVATE LINE PROPERSION OF THIS PROJECT, SOME OVERHEAD A ADJUSTMENTS MAY HAVE TO BE ACCOMPLISHED CONCURRENTLY BY PRIVATE LINE PROJECT SHALL BE CAPONDAL COMPENSATION THE CONTRACTOR SHALL ECONTRACTOR SHALL COORDINATE AND ADJUSTMENTS DO IN THE CONTRACTOR SHALL BE CAPONDAL COMPENSATION THE CONTRACTOR SHALL BE CAPONDAL COMPENSATION THE CONTRACTOR SHALL BE CAPONDAL COMPENSATION. THE CONTRACTOR SHALL BE CAPONDAL COMPENSATION. THE CONTRACTOR SHALL BLE CAPONDAL COMPENSATION. THE CONTRACTOR SHALL BLE CAPONDAL COMPENSATION. THE CONTRACTOR SHALL INSTALL ALL UTILITE. REQUIRED WITH THE ABCWUA FOR ALL TO CONSTRUCTION. THE CONTRACTOR SHALL INSTALL ALL UTILITE. A LEK AND SEWER FIFES.

OUTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL

PERFLUOUS UTILITIES AND ASSOCIATED CONDUITS AND

NDICATIONS OF THIS DRAWING. REFER TO LEGEND AND DRAWING

CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES 48 HOURS

REAS NEAR UNDERGROUND UTILITY LINES. CONTRACTOR SHALL NOTING

NORITY FOR EACH UTILITY, AND THE SCHOOL SHALL BE PROMPTLY

LICTS ANTICIPATED OR ENCOUNTERED.

PROJECT, SOME OVERHEAD AND/OR UNDERGROUND UTILITY

PROJECT, SOME OVERHEAD AND/OR UNDERGROUND UTILITY

SHALL COORDINATE AND ADVISE THE UTILITY OWNERS, ALLOWING

UTILITY ADJUSTMENTS DO NOT IMPEDE THE CONTRACTOR'S WORK.

ADDITIONAL COMPENSATION FOR ANY DELAYS, INCONVENIENCE, OR

FERENCE FROM SAID UTILITY APPURTENANCES. R SERVICES AS NECESSARY TO COMPLETE THE WORK. 1C TER AND SEWER PIPES.
UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR DICATIONS OF THE AND ASSOCIATIONS OF THE DICATIONS OF THE CONTRACTOR DICATIONS O 10,

Ħ

Platte City, MO 64079

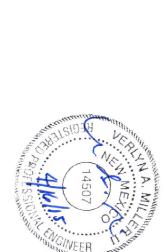
2014\_003

3 20 2015

Steve O'Dell 11485 N. Farley

THE ABCWUA FOR ALL NEW INSTALL ALL UTILITIES IN A W UTILITY INSTALLATIONS PRIOR ACCORDANCE WITH THE ABCWUA

NFECTED, AND TESTED IN ACCORDANCE DIFICATION. ALL FIRE LINES SHALL BE F FPA CODES AND REGULATIONS. PES, HYDRANTS, AND DEAD ENDS WILL B FLUSHED, DISINFECTED,



GENERAL NOTES BUILDING PERMIT

AND DRAWING INDEX

Society of St Pius X Sts. Peter & Paul Church School 5800 OURAY RD NW, ALBUQUERQUE, NM 87120

orcutt winslow

602.257.1764 t 602.257.9029 f

AND SHOP DRAWINGS FOR ALL

RETE FLATWORK SHALL HAVE A MINIMUM OF 0.5% SLOPE. CONTRACTOR ENGINEER IF THERE ARE SIDEWALKS OR CONCRETE FLATWORK WHICH DO

SUBMITTALS, CUT SHEETS CONSTRUCTION.

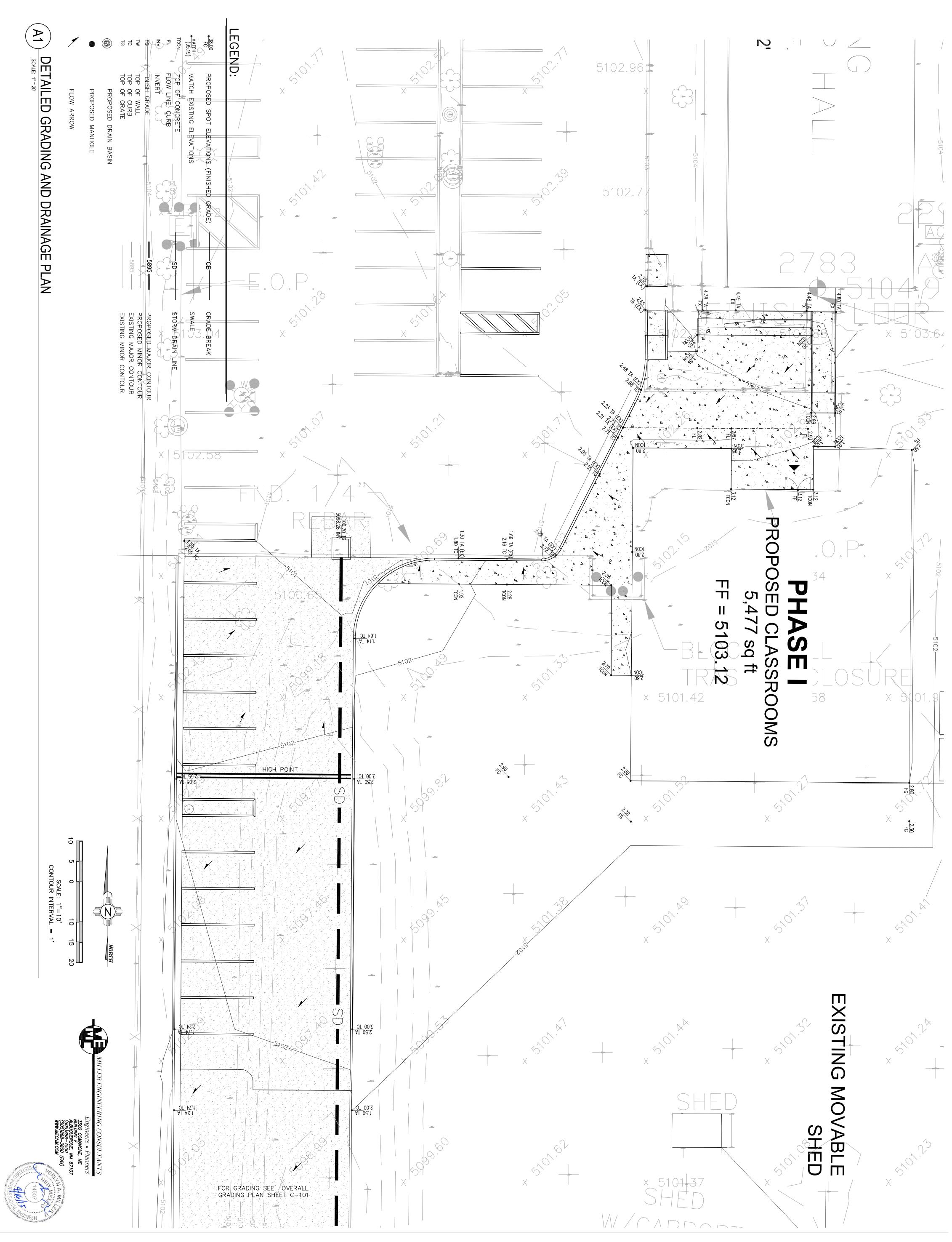
ORM DRAIN LINES FROM THE ROOF DRAINS AS NECESSARY TO OTHER PROPOSED OR EXISTING UTILITIES.

"HE PROJECT ENGINEER FOR CLARIFICATION IF THERE ARE ANY ROPOSED UTILITIES ON THIS PROJECT PRIOR TO CONSTRUCTION.

BLE FOR HIRING A SUBSURFACE UTILITY ENGINEERING COMPANY UTILITIES PRIOR TO CONSTRUCTION. IT WILL BE THE ARCHITECT IN WRITING PRIOR TO CONSTRUCTION OF ANY AND PROPOSED UTILITIES. ONCE NOTIFIED IN WRITING, THE AND PROPOSED UTILITIES. ONCE NOTIFIED IN WRITING, THE

D MIX DESIGN TO THE OWNER FOR REVIEW AND APPROVAL PROJECT. THE SEED MIX DESIGN SHALL BE A SEED MIX ESENTATIVE APPROPRIATE FOR PROJECT LOCATION.

ONTACT THE PROJECT ENGINEER FOR CLARIFICATION IF THERE ARE FLATWORK WHICH DOES NOT MEET ADA ACCESSIBILITY REQUIREMENTS. ALL MAXIMUM CROSS SLOPE OF 2.0%, ALL SIDEWALKS SHALL HAVE A MAXIMUM.ONGITUDINAL SLOPE OF .0%, AND ALL RAMPS SHALL HAVE A MAXIMUM LONGITUDINAL SLOPE OF



Society of St Pius X Sts. Peter & Paul Church School 5800 OURAY RD NW, ALBUQUERQUE, NM 87120

orcutt winslow 602.257.1764 t 602.257.9029 f

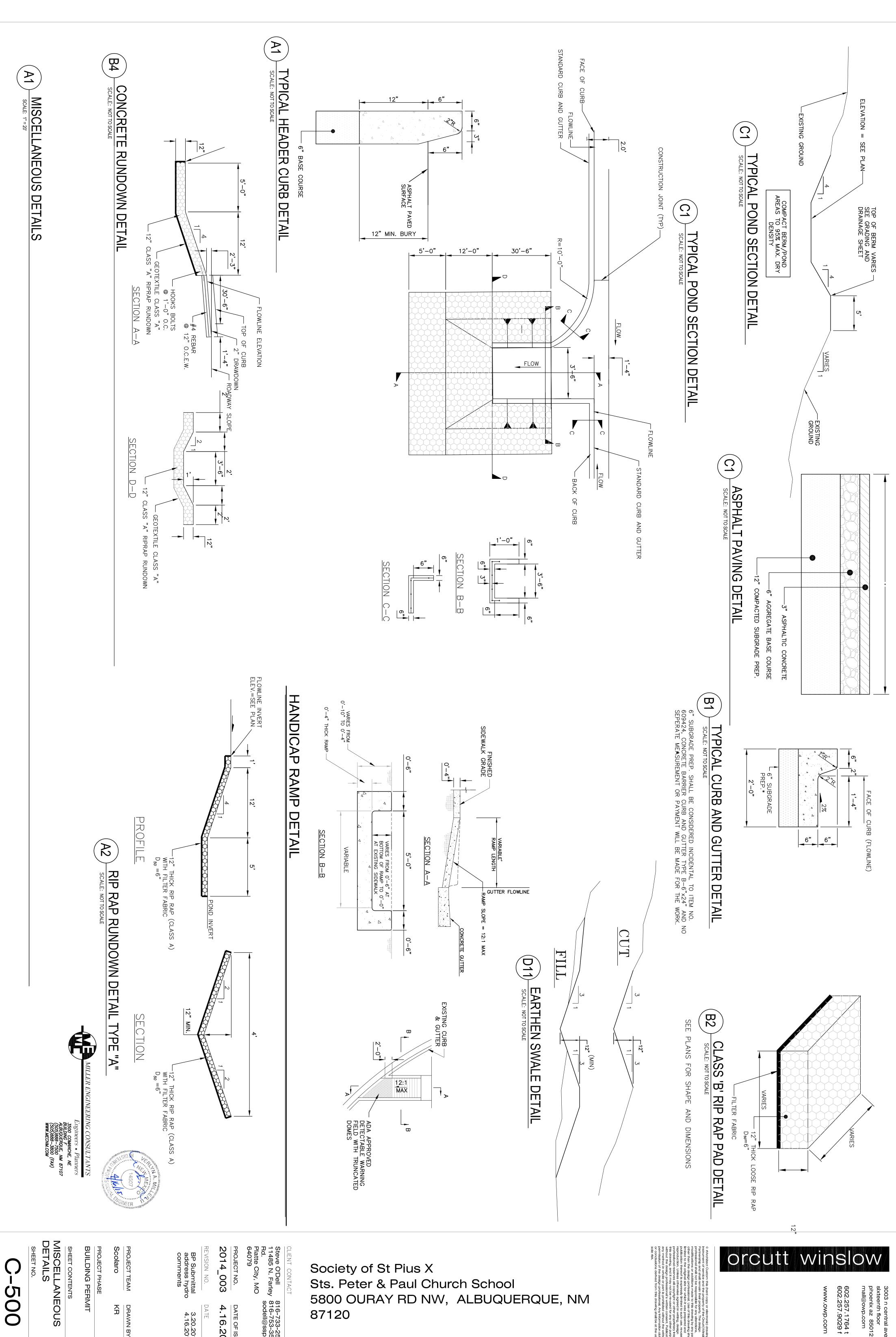
BUILDING PERMIT

PROJECT TEAM Scolaro

2014\_003

4.16.2015

3.20.2015 4.16.2015



DRAWN BY

4.16.2015

3.20.2015 4.16.2015

87120

T:\Clients\ST PETER PAUL CHURCH\ACAD\BASE\xtopo.dwg, miosc details c-500, 4/17/2015 9:54:12 AM,