

GENERAL NOTES

- A. THE CONTRACTOR SHALL ABIDE BY ALL STATE, LOCAL, AND FEDERAL LAWS, CODES, RULES AND REGULATIONS WHICH APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS, INCLUDING EPA AND ADA REQUIREMENTS.
- B. NO WORK SHALL BE PERFORMED WITHOUT THE APPROPRIATE PERMITS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS FOR THE PROJECT PRIOR TO COMMENCING CONSTRUCTION, OR PRIOR TO OCCUPANCY, AS APPROPRIATE.
- C. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING OBSTRUCTIONS, AND CONDITION OF ALL EXISTING INFRASTRUCTURE PRIOR TO CONSTRUCTION. REPORT ALL DISCREPANCIES TO THE OWNER.
- D. CONTRACTOR SHALL OBTAIN ALL REQUIRED INSPECTIONS OF THE WORK. CONTRACTOR SHALL REGULARLY UPDATE OWNER REGARDING THE STATUS OF THE INSPECTIONS.
- E. CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE PROPERTY AND/OR PROJECT LIMITS. ANY DAMAGE TO ADJACENT STRUCTURES RESULTING FROM THE CONSTRUCTION PROCESS SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
- F. FIVE WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NM811 (811) FOR LOCATION OF EXISTING UTILITIES.
- G. ALL SITE PREPARATION, GRADING OPERATIONS, FOUNDATION CONSTRUCTION, AND PAVEMENT INSTALLATION WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT, WHICH WILL BE PROVIDED BY THE OWNER.
- H. ALL TRASH, DEBRIS, & SURFACE VEGETATION SHALL BE CLEARED AND LEGALLY DISPOSED OF OFFSITE.
- I. VIBRATORY COMPACTION SHALL NOT BE USED OVER IN-PLACE UTILITIES.
- J. ADJUST ANY RIMS OF EXISTING UTILITY FEATURES AS NECESSARY TO MATCH NEW GRADES. UTILITIES IN PAVED AREAS SHALL BE HS-25 TRAFFIC RATED.

- K. CONTRACTOR SHALL COMPLY WITH LOCAL REGULATIONS FOR RESEEDING OF DISTURBED AREAS.
- L. GRADING SHALL BE PERFORMED AT THE ELEVATIONS SHOWN ON THIS
- M. PROPOSED SPOT AND CONTOUR ELEVATIONS SHOWN REPRESENT TOP OF FINISH MATERIAL (I.E. TOP OF CONCRETE, TOP OF CONCRETE BUILDING PAD, TOP OF PAVEMENT MATERIAL, TOP OF LANDSCAPING MATERIAL, ETC.). CONTRACTOR SHALL GRADE, COMPACT SUBGRADE AND DETERMINE EARTHWORK ESTIMATES BASED ON ELEVATIONS SHOWN MINUS FINISH MATERIAL THICKNESSES.
- N. IF THE SITE IS SMALL ENOUGH NOT TO REQUIRE A SWPPP/NPDES PERMIT (LESS THAN ONE ACRE). THE CONTRACTOR SHALL STILL BE RESPONSIBLE FOR USING EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMP'S) TO ENSURE THAT NO SOIL ERODES FROM THE SITE ONTO ADJAČENT PUBLIC RIGHT-OF-WAY.
- O. MEASURES REQUIRED FOR EROSION AND SEDIMENT CONTROL SHALL BE INCIDENTAL TO THE PROJECT COST.
- P. ALL NEW PAVEMENT SURFACES SHALL BE CONSTRUCTED WITH POSITIVE SLOPE AWAY FROM BUILDINGS AND POSITIVE SLOPE TOWARD EXISTING AND/OR PROPOSED DRAINAGE PATHS. PAVING AND ROADWAY GRADES SHALL BE ±0.1' FROM PLAN ELEVATIONS. BUILDING PAD ELEVATION SHALL BE ± 0.05 ' FROM PLAN ELEVATION.
- Q. PAVEMENT GRADES IN MARKED HANDICAPPED PARKING AREAS SHALL NOT EXCEED 2.0% IN ANY DIRECTION. FOR ALL ACCESSIBLE ROUTES, MAXIMUM ALLOWABLE CROSS SLOPE IS 2.0% AND MAXIMUM LONGITUDINAL SLOPE WITHOUT RAMP IS 5.0%. FOLLOW ALL ADA ACCESSIBILITY GUIDELINES OR CITY CODES, WHICHEVER IS MORE STRINGENT.
- R. ALL EROSION PROTECTION TO BE INSTALLED AS 4" AVG. DIA. ANGULAR FACED ROCK (F.F. ROCK) PLACED OVER GEOTEX 501 NON-WOVEN GEOTEXTILE (O.E.).
- S. SIDESLOPES STEEPER THAN 3:1 BUT LESS THAN 2:1 MUST HAVE

Area C

Area D

Total Area = 30870

- PERMANENT EROSION PROTECTION INSTALLED, TYPICAL. NO SLOPE SHALL BE STEEPER THAN 2:1.
- T. POND DESIGN PARAMETERS AND STORMWATER CONTROL MEASURES SHOWN ON THIS PLAN (TOP OF POND, BOTTOM OF POND, SIZE OF ORIFICE, AREA OF POND, ETC.) TO BE STRICTLY ADHERED TO FOR CERTIFICATION
- U. POST-CONSTRUCTION MAINTENANCE FOR PRIVATE STORMWATER FACILITIES WILL BE THE RESPONSIBLITY OF THE FACILITIES OWNER. PERIODIC INSPECTION AND CERTIFICATIONS OF THE FACILITIES MAY BE REQUIRED BY THE CITY ENGINEER. ENGINEER RECOMMENDS THAT OWNER INSPECT SITE YEARLY AND AFTER EACH RAINFALL TO IDENTIFY NEW AREAS OF EROSION AND INSTALL ADDITIONAL EROSION PROTECTION AS NEEDED BASED ON ACTUAL OCCURRENCES.
- V. FOR ENGINEER'S CERTIFICATION OF SUBSTANTIAL COMPLIANCE (FOR CERTIFICATE OF OCCUPANCY) CONTRACTOR SHALL PROVIDE AN AUTOCAD FORMAT AS-BUILT SURVEY PREPARED BY A LICENSED SURVEYOR WHICH
 - AS-BUILT SPOT ELEVATIONS AT EACH DESIGN SPOT ELEVATION SHOWN ON THE APPROVED PLAN;
 - TOP AND BOTTOM ELEVATIONS AS REQUIRED TO DEFINE THE PERIMETER OF PONDS (TO BE USED BY ENGINEER TO CALCULATE AS-BUILT
- VOLUME PROVIDED); POND OVERFLOW ELEVATIONS
- ALL CONSTRUCTION, INCLUDING DRAIN INLETS, PIPES AND PONDS SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED PLAN IN ORDER TO RECEIVE ENGINEER'S CERTIFICATION.
- W. GRADING OF FIRST FLUSH RETENTION BASINS WILL BE INSPECTED AS PART OF ENGINEER'S CERTIFICATION FOR CERTIFICATE OF OCCUPANCY.

CALCULATIONS

STORMWATER CONTROL MEASURES ARE REQUIRED TO PROVIDE MANAGEMENT OF FIRST FLUSH DEFINED AS THE 90TH PERCENTILE STORM [LESS INITIAL ABSTRACTION] OR 0.34" OF STORMWATER WHICH DISCHARGES FROM IMPERVIOUS SURFACES. STORM WATER FROM THE IMPERVIOUS AREAS SHALL BE DIRECTED TO STORMWATER QUALITY VOLUME BASINS.

16052

8644

= 30870

52%

 $E_{\rm C} = 1.13$

 $E_D = 2.12$

CALCULATIONS: SAN JOSE CATHOLIC CHURCH - PERISH HALL:								
Based on Draina	age Des	sign Criteria for	City of	f Albuquerque Section	on 22.2,	DPM, Vol 2, da	ited Ja	n., 1993
				ON-SIT	Έ			
AREA OF SITE	Ξ:			30870	SF	=	0.7	
				100-year, 6-hour				
HISTORIC FLOWS:				DEVELOPED FL	OWS:			EXCESS PRECIP:
		Treatment SF	%	_		Treatment SF	%	Precip. Zone 2
Area A	=	0	0%	Area A	=	0	0%	$E_{A} = 0.53$
Area B	=	7717.5	25%	Area B	=	6174	20%	$E_{\rm B} = 0.78$

Area C

Area D Total Area

	Weigh	ted E =	$E_AA_A + E_BA_B + 1$	$E_{\mathbf{C}}\mathbf{A}_{\mathbf{C}} + E_{\mathbf{D}}\mathbf{A}_{\mathbf{D}}$	
			$A_A + A_B +$	$A_C + A_D$	
Historic E	=	1.04 in.	Developed E	=	1.34 in.
On-Site Volume	e of Runoff: V3	360 =	E*A / 12		

23152.5 75%

0%

100%

0

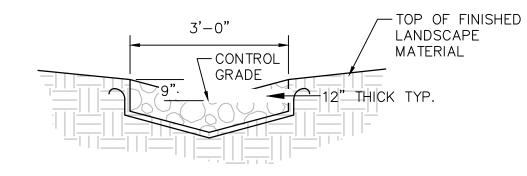
On-Site Peak Discharge	e Rate: $Qp = Q_{pA}A_A + Q_{pB}A_B + Q_{pC}A_B$	C+Q _{pD} A	A _D / 43	,560
For Precipitation Zone	2			
$Q_{pA} =$	1.56	Q_{pC}	=	3.14

	•	-	-1	r	·r ·r- · ·r-		-		
For Precipitation	Zone	2							
Q_{pA}	=	1.56			Q_{pC}	=	3.14		
Q_{pB}	=	2.28			Q_{pD}	=	4.70		
Historic Q _p	=		2.1	CFS	Developed Q _p	=		2.4	CFS
BASIN MAP:									

	\ \		×6°
**************************************			×**
	**\		
, ser , , , , , , , , , , , , , , , , , , ,	BASIN 1		
RMWATER SIN			58.0 \$7.7 \\\ 58.0 \\\ \$7.7 \\\ \$1.0 \\
TOP CRUT (51.50)	GM RAIP	98.74	56.72 S6.0 S6.73 S
) ,	CHIIBCH		MONITOR WELL 57.6

FIRST FLUSH POND						
Contour	Area	Volume				
4952.00	517					
4951.00	124	321 CF				
TOTAL V	OL.	321 CF				

REQUIRED FIRST FLUSH VOLUME = 8644 SF * 0.34" / 12 = 245 CF



- VARY FRACTURED FACE ROCK SIZE BETWEEN 2" AND 6" DIA. (AVG.=4").
- PLACE GEOTEX 501 NON-WOVEN GEOTEXTILE (O.E.) BENEATH ALL EROSION PROTECTION.

CONSTRUCT ALL SWALES AND FRACTURED FACE ROCK EROSION PROTECTION BELOW ADJACENT GRADE TO ENSURE RUNOFF CAN BE CAPTURED AND CONVEYED PROPERLY

FRACTURED FACE ROCK SWALE



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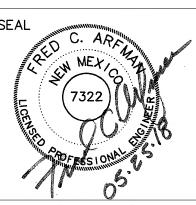
Interior Design Engineerin

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client for a one time use, unless otherwise

agreed upon in writing by the Architect.

PROFESSIONAL SEAL





PROJECT NAME

SAN JOSÉ CATHOLIC CHURCH PARISH HALL

SAN JOSÉ CATHOLIC CHURCH 2401 BROADWAY BLVD SE ALBUQUERQUE, NM 87102

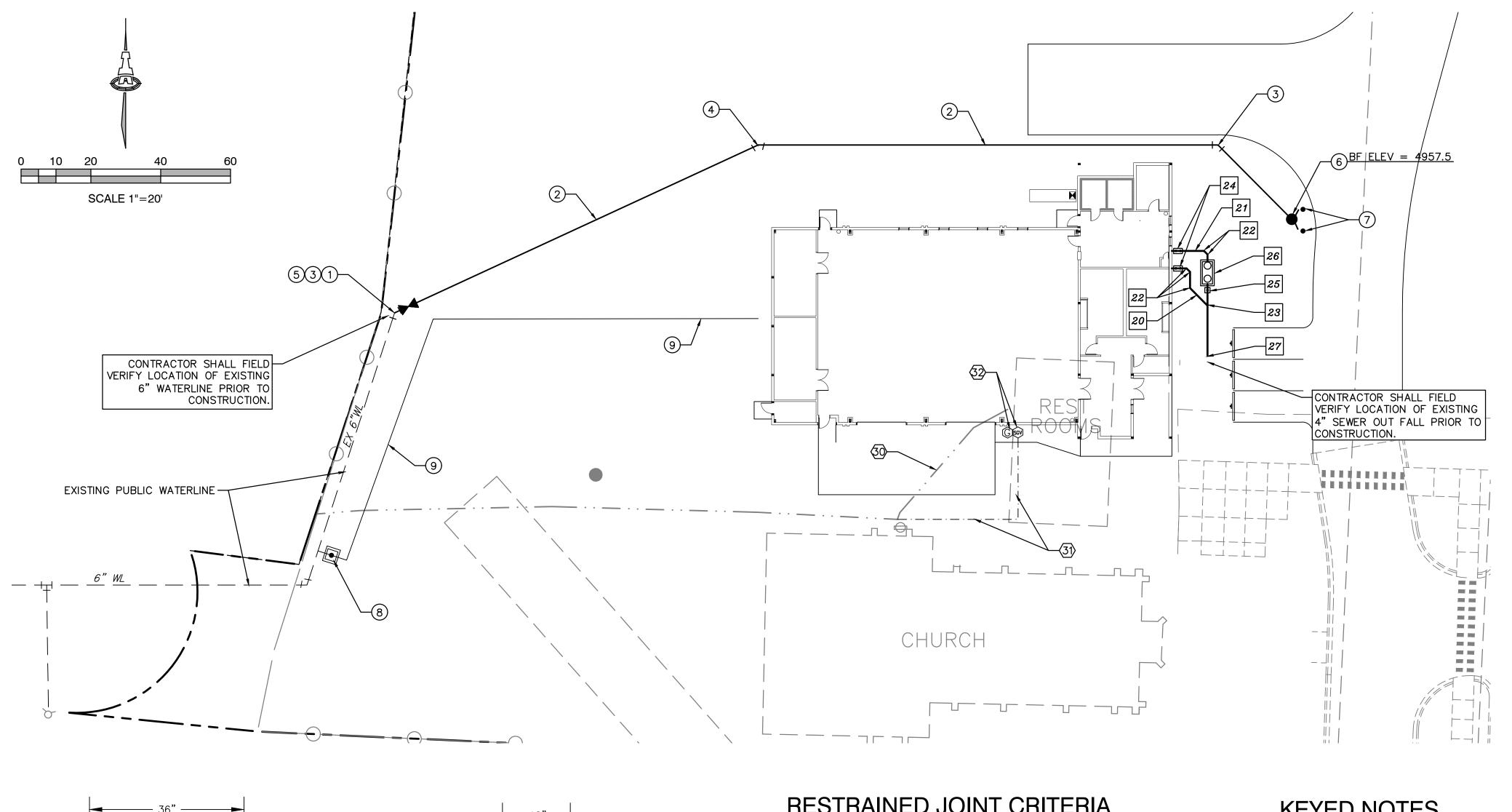
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IA2270 PROJECT NUMBER DRAWN BY BJB CHECKED BY FCA ISSUE DATE 05-25-18

SHEET NAME

GRADING AND DRAINAGE NOTES AND DETAILS

CG-101



RESTRAINED JOINT CRITERIA

FOR WATERLINE FITTINGS

NOTES:

∕4X4X6 GAGE

∠4" 3500 PSI PCC PAD

-COMPACTED

SUBGRADE

─4" PVC RISER

-4"-45° BEND

-ROUND CONC. TOP

-PAINT SAFETY YELLOW

-6"ø STEEL PIPE FILLED

-3,500 PSI CONCRETE

FOUNDATION

W/CONCRETE

-FINISHED GRADE

MESH

<u>PLAN</u>

CONCRETE PAD

DIRECTION OF FLOW

SINGLE CLEANOUT DETAIL

8"or6"x4" WYE OR

SERVICE LINE

45° BEND WHERE

C.O. OCCURS AT

END OF LINE -

WELDED WIRE

- CONCRETE PAD TO BE

INTEGRATED INTO THE

SIDEWALK PATTERN

- 1. ALL MECHANICAL JOINTS SHALL BE RESTRAINED AT THE FITTING.
- 2. THE CONTRACTOR SHALL PROVIDE A MINIMUM PIPE LENGTH OF 20 LF FROM ALL MECHANICAL JOINTS. ALL PIPE JOINTS WITHIN 20 LF OF A MECHANICAL JOINT SHALL BE RESTRAINED AT THE CONTRACTOR'S EXPENSE.
- 3. THE CONTRACTOR SHALL RESTRAIN ALL PIPE JOINTS IN THE SPECIFIED DISTANCE LISTED IN THE TABLE ON THIS SHEET.
- 4. THE CONTRACTOR SHALL RESTRAIN ALL FIRE HYDRANT JOINTS FROM THE TEE ON THE MAIN TO THE FIRE HYDRANT FLANGE.

DEPTH OF BURY: 3.0 FT. MINIMUM

FACTOR OF SAFETY: 1.50

MATERIAL: GM/SM - SILTY GRAVELS AND SILTY SOIL TYPE:

SANDS, GRAVEL-SAND-SILT MIXTURES. TEST PRESSURE:

TRENCH TYPE 4: PIPE BEDDED IN SAND, GRAVEL, OR

CRUSHED STONE TO DEPTH OF 1/8 PIPE DIAMETER, 4 INCH MINIMUM; BACKFILL COMPACTED TO TOP OF PIPE.

DIFFERENT CRITERIA, E.G., GREATER DEPTH OF BURY, ETC., WILL REQUIRE DIFFERENT RESTRAINED LENGTHS. THESE MUST BE CALCULATED BY A QUALIFIED PROFESSIONAL ENGINEER AND APPROVED BY CITY OF RIO RQANCHO.

KEYED NOTES

WATER KEYED NOTES

- 1. REMOVE EXISTING TEE. CONNECT NEW 6" WATERLINE.
- 2. 6" WATERLINE.
- 3. 6" 45° BEND. (LT=9')
- 4. 6" 22 1/2° BEND. (LT=2')
- 5. 6" GATE VALVE W/ BOX PER ABCWUA STD DWG 2326 & 2329. (LT=46')
- 6. FIRE HYDRANT PER ABCWUA STD DWG 2340. PAINTED SAFETY ORANGE.
- 7. BOLLARDS PER DETAIL THIS SHEET.
- 8. 1 3" METER ASSEMBLY PER ABCWUA STD DWG 2363.
- 9. 1 3" WATER SERVICE LINE.

- 20. 4" SANITARY SEWER LINE, AT 2% MIN. SLOPE.
- 21. 4" GREASE LINE, AT 2% MIN. SLOPE.
- 22. 4" 45° BEND.
- 23. 4" WYE/TEE.
- 24. DOUBLE CLEAN OUT.
- 25. SINGLE CLEAN OUT.
- 26. 500 GALLON GREASE INTERCEPTOR.
- 27. CONNECT NEW 4" SERVICE LINE TO EXISTING SEWER LINE FROM EXISTING RESTROOMS.

<u>GAS</u>

- 30. REMOVE AND DISPOSE EXISTING GAS LINE.
- 31. EXTEND NEW GAS LINE FROM EXISTING METER AT CHURCH TO NEW METER AT PARISH HALL.
- 32. NEW GAS METER TO BE COORDINATED WITH NM GAS CO. WITH EMERGENCY SEISMIC SHUT OFF VALVE (SGV) AS REQUIRED BY NM GAS CO.

GENERAL NOTES

- EXISTING UTILITY LINES ARE SHOWN IN AN APPROXIMATE MANNER ONLY AND MAY BE INCOMPLETE OR OBSOLETE. SUCH LINES MAY OR MAY NOT EXIST WHERE SHOWN OR NOT SHOWN. ALL UTILITIES SHOULD BE FIELD VERIFIED AND LOCATED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY
- 2. CONTRACTOR SHALL NOT USE VIBRATORY COMPACTION EQUIPMENT OR HEAVY VEHICLES OVER EXISTING UTILITIES.
- 3. SITE STORM DRAIN, ELECTRIC LINES & TRANSFORMERS AND GAS LINES ARE SHOWN FOR GENERAL INFORMATION ONLY TO PROVIDE AN OVERVIEW OF SITE UTILITIES AND POTENTIAL CONFLICTS. SEE MECHANICAL PLANS FOR GAS LINE SIZING. SEE CG-101 FOR STORM DRAIN DESIGN.
- 4. ALL WATER FITTINGS SHALL HAVE JOINT RESTRAINTS (LT). SEE RESTRAINED JOINT CRITERIA NOTES THIS SHEET. (LT) LENGTH SHOWN ON KEYED NOTES.
- 5. ALL ABOVE GROUND UTILITY EQUIPMENT AND FITTINGS SHALL BE PAINTED IN COLORS TO MATCH BUILDING COLORS.

UTILITY GENERAL NOTES

- A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE INSTALLATION OF ALL WORK RELATED TO PROPOSED UTILITIES SHOWN ON THIS PLAN INCLUDING: TRENCHING, BACKFILL, SUPPORTS, CLEANOUT PADS, SERVICE STOPS AND BOXES, SERVICE LINES, TESTING, CLEANING, AND STERILIZING. ANY WORK NOT ACCEPTED BY THE ARCHITECT OR ENGINEER DUE TO IMPROPER WORKMANSHIP OR LACK OF PROPER COORDINATION SHALL BE REMOVED AND CORRECTLY INSTALLED AT THE CONTRACTOR'S EXPENSE, AS DIRECTED.
- B. MINIMUM COVER SHALL BE 36" FOR WATERLINES AND 48" FOR SANITARY SEWER, EXCEPT AT BUILDING CONNECTIONS.
- C. UTILITY LINES SHALL BE INSTALLED AFTER COMPLETION OF THE SITE ROUGH GRADING.
- D. UTILITY LINES SHALL BE INSTALLED PRIOR TO SURFACE IMPROVEMENTS SUCH AS PAVEMENT, SIDEWALKS, AND LANDSCAPING.
- E. CONTRACTOR SHALL BE RESPONSIBLE FOR CONNECTIONS TO BUILDING PLUMBING AND ALL NECESSARY FITTINGS. FITTING COSTS SHALL BE INCIDENTAL. REFER TO THE MECHANICAL AND/OR PLUMBING PLANS FOR SERVICE CONNECTIONS.
- F. DRY UTILITY LOCATIONS AND DESIGN ARE NOT A PART OF THIS PLAN. CONTRACTOR SHALL COORDINATE WITH THE LOCAL DRY UTILITY COMPANIES TO DETERMINE THE SIZE, DEPTH, LOCATION, FITTINGS AND REQUIRED APPURTENANCES FOR THE DRY UTILITY SERVICE LINES ON THE SITE. REFER TO MECHANICAL AND ELECTRICAL PLANS FOR SERVICE CONNECTIONS.
- G. TRENCHING, BORING, AND JACKING SHALL BE CONSTRUCTED IN ACCORDANCE WITH COA SPEC. SECT. 700. ALL BACKFILL SHALL BE COMPACTED TO A MINIMUM 95% DENSITY PER ASTM D-1557.
- H. ALL WATER VALVE BOXES, MANHOLE RINGS & COVERS, AND OTHER SURFACE ITEMS FOR THE UTILITIES SHALL BE ADJUSTED TO FINISHED GRADE.
- ALL CROSSINGS OF WATER AND SEWER LINES SHALL HAVE 12" MIN CLEARANCE. IF 12" CLEARANCE IS NOT POSSIBLE, BOTH PIPES SHALL BE ENCASED IN CONCRETE OR AS DIRECTED BY THE ENGINEER.
- J. VALVES, METERS, SERVICE LINES, METER AND VALVE BOXES, TAPPING SLEEVES, HYDRANTS, AND OTHER WATER APPURTENANCES SHALL BE CONSTRUCTED IN ACCORDANCE WITH COA SPEC. SECT. 800.
- K. WATERLINES LESS THAN 4" DIAMETER SHALL BE COPPER TYPE K MEETING ASTM B 88 REQUIREMENTS. WATERLINES 4" IN DIAMETER OR LARGER SHALL BE PVC PIPE MEETING AWWA C900 DR-18 REQUIREMENTS.
- L. ALL FITTINGS AND COUPLINGS FOR WATERLINES LESS THAN 4" IN DIAMETER ARE TO BE COPPER, SOLDER JOINT FITTINGS IN ACCORDANCE WITH ASME 16.18 OR ASME B16.22.
- M. ALL FITTINGS AND COUPLINGS FOR WATERLINES 4" IN DIAMETER OR LARGER ARE TO BE MEGA LUG MECHANICAL JOINTS OR ENGINEER APPROVED EQUIVALENT.
- N. JOINTS SHALL BE RESTRAINED BY MEGA LUG HARNESSES, OR ENGINEER APPROVED EQUIVALENT. JOINT RESTRAINTS SHALL BE INSTALLED AT DISTANCES FROM THE FITTINGS AS SHOWN ON THE JOINT RESTRAINT TABLE IN THESE PLANS.
- O. BACKFLOW PREVENTERS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- P. FIRE LINES SHALL USE PIPE MATERIALS LISTED AND APPROVED FOR FIRE SERVICE BY UNDERWRITERS LABORATORIES.
- Q. FIRE DEPARTMENT CONNECTIONS SHALL MEET UL 405, NFPA 1963, AND LOCAL FIRE DEPARTMENT REQUIREMENTS.
- R. ADJUST WATER AND FIRE LINES TO AVOID FOOTINGS, SEWER LINES, AND OTHER CONDUITS. INSTALL FITTINGS AS NEEDED.
- S. SEWER MANHOLES, CLEANOUTS, SEWER SERVICE TAPS, AND OTHER SEWER APPURTENANCES SHALL BE CONSTRUCTED IN ACCORDANCE WITH COA SPEC. SECT. 900 / APWA SPEC. SECT. 900 / LOCAL UTILITY COMPANY SPECIFICATIONS
- SEWER SERVICE LINES SHALL BE INSTALLED AT A 2% MINIMUM SLOPE, UNLESS OTHERWISE SPECIFIED ON THE PLANS. THE PIPE SHALL DRAIN AT A CONSTANT SLOPE BETWEEN FITTINGS. THE PIPE SHALL DRAIN TOWARD THE SEWER MAIN AT ALL LOCATIONS.
- U. ALL SANITARY SEWER LINE MATERIALS SHALL BE PVC SDR-35

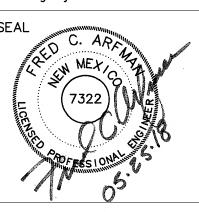


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PROFESSIONAL SEAL



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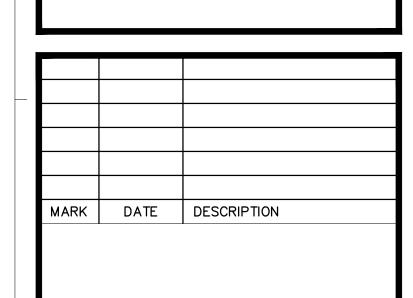
Jun 01,2018

2270 CU-101.dwg

PROJECT NAME

SAN JOSÉ CATHOLIC CHURCH PARISH HALL

SAN JOSÉ CATHOLIC CHURCH 2401 BROADWAY BLVD SE ALBUQUERQUE, NM 87102



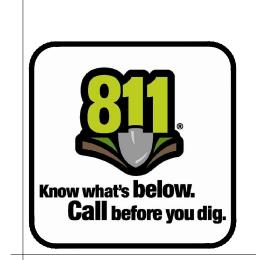
PROJECT NUMBER DRAWN BY CHECKED BY ISSUE DATE

SHEET NAME

SITE UTILITY PLAN

SHEET NUMBER

CU-101



1'-8" **BOLLARD DETAIL**

-4X4X6 GAGE

CONCRETE PAD TO BE

INTEGRATED INTO THE

SIDEWALK PATTERN

MESH

-COMPACTED

SUBGRADE

-4" PVC RISER

—4"−45° BEND

SERVICE LINE

-8"or6"x4" WYE

+ + + +

_4" 3500 PSI PCC PAD

<u>PLAN</u>

CONCRETE PAD

DOUBLE CLEANOUT DETAIL