Lot 10

stucco

== -174.7

74.5+

74.0 73.9

N81°58'53"\W

The proposed improvements include approximately 6,800 SF (footprints) church facility with all the necessary site

The site is bounded on the south by Montaño Road, NW, on the north and west by existing single family residences and on

· Grading relationships between the existing ground elevations and proposed finished elevations in order to

· The relationship of on-site improvements with existing neighboring property to insure an orderly transition

DRAINAGE PLAN CONCEPT: The proposed site is split into two basins. Basin 1 will be ponded until the Montaño Phase 1B

Storm Drain is constructed (COA Project No. 3255 by Wilson and Company). At that time, a storm drain inlet will be installed to

carry the Basin 1 flows to the new storm drain. Basin 2 remains unchanged. Flows will continue to historically discharge to

GENERAL NOTES

St. Michael and All Angels Episcopal Church, Albuquerque, New Mexico.

Per FEMA Boundary Map #15, the site is not located in a flood zone.

EROSION CONTROL: The contractor is responsible for retaining on-site all sediment generated during construction by

FUTURE STORM DRAIN INLET

means of temporary earth berms or silt fences at the low points on the west property line.

west of the centerline of Guadalupe Trail NW - elevation = 4974.63 (M.S.L.D.)

City of Albuquerque 13-F14, an aluminum cap located in the median of Montaño Road NW, 22 feet

improvements associated with vehicle access, parking and landscaping.

between proposed and surrounding grades.

OFF-SITE DRAINAGE: No off-site drainage affects this property.

facilitate positive drainage to designated discharge points.

Forstbauer Surveying Co. - 268-2112

The extent of proposed site improvements, including buildings, walks and pavement.

 The flow rate/volume of rainfall runoff across or around these improvements and methods of handling these flows to meet City of Albuquerque requirements for drainage management.

the east by existing church facilities. The site has no apparent slope.

The intent of this plan is to show:

Montaño Road.

LEGAL:

B.M.:

SURVEYOR:

The required Area is

FLOOD HAZARD:

Based on the Orifice Equation $Q = C^*A^*(2^*g^*h)^2$

74.5

4' chain link fence

4

DRAWN BY BJB

CHECKED BY:

DATE: 4-24-96 REVISIONS

KEYED NOTES 1) NEW DRIVE ACCESS TO BE CONSTRUCTED CONCURRENTLY WITH MONTANO ROAD NW IMPROVEMENTS. FUTURE MONTANO IMPROVEMENTS SHOWN TAKEN FROM PRELIMINARY C.O.A. PROJECT NO. 3255 - MONTANO PHASE IB BY WILSON AND COMPANY. (3) PROPOSED SAND PLAYGROUND THIS AREA. (4) UNCONCENTRATED ROOF FLOWS (5) CONCENTRATED ROOF FLOWS 6 CONSTRUCT I' WIDE SIDEWALK CULVERT (2 THIS AREA). GRADE LANDSCAPED AREA TO DRAIN TO CULVERTS. 7 FUTURE STORM SEWER SYSTEM PER MONTANO PRELIMINARY CONSTRUCTION PLANS BY WILSON ENGINEERING.

(8) PROVIDE I' WIDE OPENING IN CURB TO ALLOW FLOWS TO PASS. (9) CONSTRUCT APPX. 70 LF 2' WIDE CONCRETE VALLEY GUTTER TO CARRY FLOWS AT SLOPE . 0.0050'/

WATER HARVESTING AREA. SEE LANDSCAPE PLAN FOR ADDITIONAL INFORMATION.

11) FINISH GRADE IS APPROXIMATELY EQUAL TO FINISH FLOOR THIS AREA.

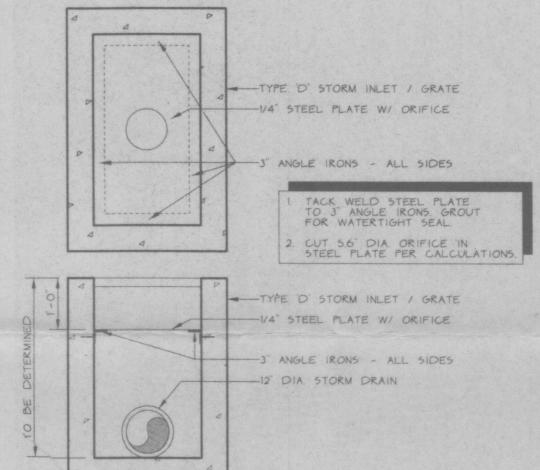
(12) EXISTING ASPHALT PAVING TO REMAIN.

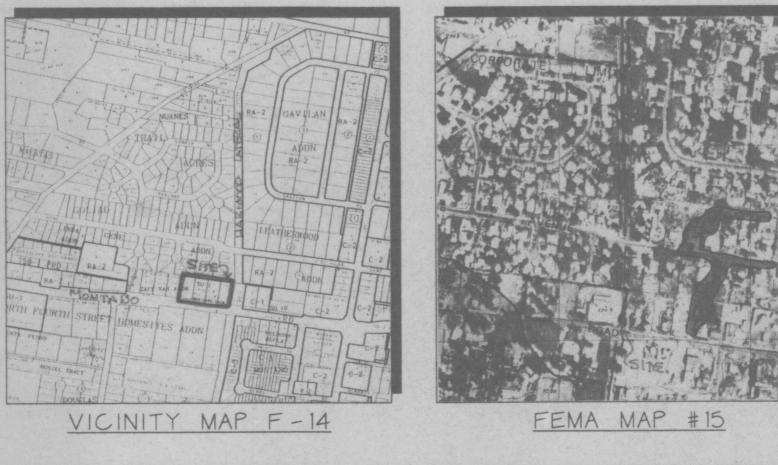
13 PROPOSED BRICK PAVERS ON SAND INO GROUT) THIS AREA. PROVIDE SWALE TO DRAIN AS SHOWN.

14 FUTURE CONNECTION FROM POND TO PROPOSED MONTANO STORM DRAIN, TO BE CONSTRUCTED CONCURRENTLY WITH MONTANO PHASE IB.

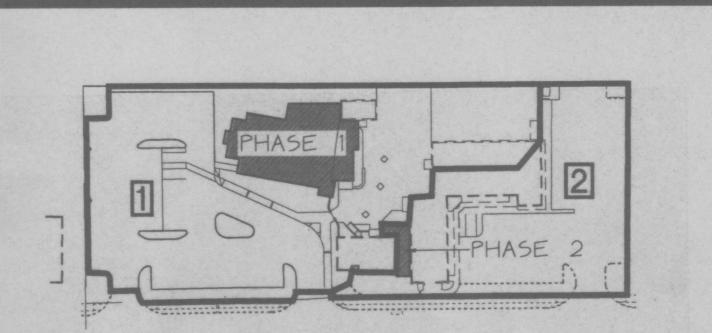
(SEE DETAIL OF INLET THIS SHEE 15 PROVIDE A MIN. FOUR PERCENT GRADIENT WITHIN AT LEAST THE FIRST TEN FEET AWAY FROM STRUCTURE THIS AREA. PROVIDE POSITIVE DRAINAGE TO REMOVE FLOWS FROM THE AREA.

NOTE: SEE ARCHITECTURAL PLANS FOR EROSION PROTECTION DETAILS FOR BOTH CONCENTRATED AND UNCONCENTRATED ROOF FLOWS. SEE LANDSCAPE PLAN FOR EROSION PROTECTION IN LANDSCAPED AREA.





FUTURE 60" STORM DRAIN ...



A = 0% B = 15% 3786 CF C= 0% Note: This Basin has historically discharged to Montaño Blvd. and will continue to do so.

Future discharge to Montaño Road NW and the future storm drain will be limited to the Historical Discharge of 5.7 cfs (see Note: This pond is temporary until the construction of Montaño Phase 1B. At that time, the proposed storm drain inlet located historical calculations above). The entirety of Basin 2 (2.4 cfs) will continue to surface drain leaving a maximum of 3.3 cfs to be discharged from Basin 1. Following are calculations sizing the orifice required to meet this discharge rate: BASIN 2 0.6 Ac. Precip. Zone Area of Basin flows = The following calculations are based on Treatment areas as shown in table to the right Off-Site Weighted Excess Precipitation (see formula above) TREATMENT 1.78 in. Off-Site Volume of Runoff (see formula above) 5.6 "dia. orifice to achieve the req'd discharge rate. Off-Site Peak Discharge Rate: (see formula above see detail this sheet.

FUTURE 60" STORM DRAIN -

AREA OF SITE:

HISTORIC FLOWS:

On-Site Historic Land Condition

Area a =

Area b =

Area c

Area d

Total Area =

On-Site Weighted Excess Precipitation (100-Year, 6-Hour Storm) Weighted E = EaAa + EbAb + EcAc + EdAdAa + Ab + Ac + AdOn-Site Volume of Runoff: V360 = E*A/12Historic V360 = On-Site Peak Discharge Rate: Qp = QpaAa+QpbAb+QpcAc+QpdAd / 43,560 For Precipitation Zone 1 Qpc = 2.87Qpa = 1.295.7 CFS Developed Qp = 6.3 CFS 52242 SF 1.2 Ac. Precip. Zone The following calculations are based on Treatment areas as shown in table to the right TREATMENT A = 0% Off-Site Volume of Runoff (see formula above) B = 20% C= 0% Off-Site Peak Discharge Rate: (see formula above BASIN 1 - POND SIZE: The proposed pond is sized as follows: POND VOLUME CALC AREA (SF) VOLUME (CF) Area of contour 4972.0 = 321 \ 93 4973.5 = 15978 - 6053

0 SF

775 SF

43399 SF

3.7

3' concrete 1389 73.80 driveway 73.69 0 water 73.59 73.59 73.59 73.59 73.59

CALCULATIONS:

ON-SITE

Area a =

Area b =

Area c =

Area d =

Total Area =

On-Site Developed Land Condition

Calculations are based on the Drainage Design Criteria for City of Albuquerque, Section 22.2, DPM, Vol 2, dated Jan., 1993

72093 SF

DEVELOPED FLOWS:

Total Volume Provided: 8234 4278 **Pond Elevation = 4973.3 for 100-year storm

within the ponding area will be installed. Landscaped area contains nuisance flows of 150 cf before backing up into the parking area.

GENERAL NOTES: ALL IMPROVEMENTS IN BASIN I WILL BE CONSTRUCTED DURING PHASE I. ALL IMPROVEMENTS IN BASIN 2 WILL BE CONSTRUCTED DURING PHASE 2.

6' chain link fence

-3

♦74.2

7432 1-====

73.4 +

♦74.0 — ♦74.1 +^{74.14}

74.64 RD RD 174.79 RD 174.79

EXISTING BUILDING

RD +73.9 RD

408.08

13

♦73.6

75.0

EXISTING

ㄴ======#

= 1.66 Ac.

0 SF

12008 SF

8500 SF

51585 SF

72093 SF

EXCESS PRECIPITATION:

Ea = 0.44

Eb = 0.67

Ec = 0.99

Ed = 1.97

Precip. Zone

+73.90

SIDEWALK, CURB AND GUTTER IEXISTING, PROPOSEDI

PROPOSED PAVED DRIVE BUILDING (EXISTING, PROPOSED) PROPERTY LINE

EXISTING SPOT ELEVATION EXISTING CONTOUR € 75.2

PROPOSED SPOT ELEVATION PROPOSED CONTOUR FUTURE SPOT ELEVATION FUTURE CONSTRUCTION

SURFACE FLOW DIRECTION (EXISTING, PROPOSED) LANDSCAPED AREA TOP OF GRADE WALL (< 18" HIGH) TRW TOP OF RETAINING WALL 1 > 18" HIGH TOP OF ASPHALT TOP OF CURB

FLOW LINE FINISHED FLOOR R/W RIGHT OF WAY JUN 2 5 1996 PROPERTY LINE

POWER POLE ENTRY / EXIT LOCATION

CONCEPTUAL STORM DRAIN INLET

LEGEND

1-12

09-21-

(4) @ 9'-0"

EXIST.

STOR

LOT 10-A

EXISTING

HOUSE

2,021 SQFT

289

423 SQFT

7.438

~21

18-0" 20-0" - CLR

46

SITE INFORMATION **LEGEND**

PARKING REQUIRED VEHICLE PARKING 270 SEATS / 4 = 68 SPACES REQUIRED TRANSIT REDUCTION = 7 SPACES TOTAL REQUIRED = 61 SPACES

MOTORCYCLE = 3 REQUIRED BICYCLE = 68 / 20= 4 REQUIRED

PARKING PROVIDED STANDARD = COMPACT = ACCESSIBLE = 12

MOTORCYCLE = 4 PROVIDED (>3, OK) BICYCLE =

SITE INFORMATION

ENCLOSURE

SU-1 FOR CHURCH

_OT 9-A: 1.5715 ACRES LOT 10-A: 0.3992 ACRES TOTAL SITE AREA: 85843.692 (1.9707 ACRES)

GROSS SF: 24,728 SQFT (ALL BLDGS. INCLUDING FUTURE PHASE) NEW 8" COMMON FACE CMU BLOCK WALL 6 FEET HIGH, COLOR: GREY FAR: 24,728 SQFT / 85843.692 SQFT = .288

> Offices: 6,976 SQFT

WTYPE VB

ADULT EDUCATION

NON SPRINKLED

72 SPACES (> 61, OK)

4 PROVIDED (=4, OK) PARCEL 2: LOT NUMBERED NINE-A (9-A) OF THE ZAPF-VAN ADDITION NO. 10,

ALBUQUERQUE, NEW MEXICO, AS THE SAME IS SHOWN AND DESIGNATED ON THE PLAT THEREOF, FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO, ON AUGUST 6, 1996, IN PLAT BOOK 96C, PAGE 347. PARCEL 3: LOT NUMBERED TEN-A (10-A) OF THE ZAPF-VAN ADDITION NO. 10,

TRANSPORTATION

APPROVED

oLB FUTURE PHASE
1,865 SQFT

EXISTING 8" COMMON FACE CMU BLOCK WALL 6 FEET HIGH, COLOR: GREY

PARCEL 1: LOT NUMBERED FIVE-A (5-A) OF THE ZAPF-VAN ADDITION NO. 10

BERNALILLO COUNTY, NEW MEXICO, ON NOVEMBER 1, 1988, IN PLAT BOOK

THE PLAT THEREOF, FILED IN THE OFFICE OF THE COUNTY CLERK OF

ALBUQUERQUE, NEW MEXICO, AS THE SAME IS SHOWN AND DESIGNATED ON

ALBUQUERQUE, NEW MEXICO, AS THE SAME IS SHOWN AND DESIGNATED ON THE PLAT THEREOF, FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NM, ON SEPT. 6, 1988, IN PLAT BOOK C37, PAGE 67.

for 09-21-10 En Modifications

BUILDING ONE

EXISTING CHURCH

7,173 SQFT TYPE VB NON SPRINKLED

POLE-MOUNTED LIGHT FIXTURE, RE. A191

LP - EXISTING POLE - MOUNTED LIGHT FIXTURE

EXISTING FIRE HYDRANT

0

LEGAL DESCRIPTION

C37, PAGE 158.

PROPERTY LINE PP

-14

LB - EXISTING LIGHT BOLLARD

KEYED NOTES

WOOD FENCE TO MATCH EXISTING ADJACENT LANDSCAPE AREA.

6" CONCRETE CURB.

CONCRETE SIDE WALK.

NEW PAINTED STRIPPING/SYMBOLS/HATCHING AS

SHOWN. RELOCATED EXISTING METAL GATE (TO REMAIN

UNLOCKED)

EDGE OF ASPHALT PAVING EXISTING REFUSE ENCLOSURE TO REMAIN. NEW CONCRETE CURB AND GUTTER TO COA

STANDARDS.

RAISE EXISTING WATER METER AS REQUIRED BENCH 8'-0" TYP. (SEATING FOR 4) 12. NEW ASPHALT PAVING OVER BASECOURSE AS

RECOMMENDED BY GEOTECH REPORT 13. RELOCATE EXISTING CURB CUT 14. POLE MOUNTED SIGNAGE, TYPE A. RE. D5/A091

15. CONCRETE WHEEL STOP 16. EXISTING SIDEWALK TO REMAIN.

17. NEW CMU REFUSE ENCLOSURE COA STANDARDS, RE. A091

18. 8" COMMON FACE CMU WALL, (2) COAT STUCCO BOTH SIDES, 3'-4" HIGH 19. NOT USED

20. EXISTING ASPHALT PAVING TO REMAIN.

21. PAINT ASPHALT/CURB WITH "FIRE LANE NO PARKING" PER COA FIRE MARSHAL STANDARDS

22. EXISTING LANDSCAPE AREA TO REMAIN. 23. EXISTING FENCE TO REMAIN.

24. EXISTING BRICK PAVER PATH TO REMAIN.

25. ACCESSIBLE RAMP, PE. A 091

27. EXISTING CURB TO REMAIN.

7-16-

26. EXISTING CONCRETE RAMP TO REMAIN, RE. AD91

7-22-3

28. EXISTING DRIVE TO BE VACATED

30. VALLEY GUTTER, RE: CIVIL .

31. DRAINAGE SWALE

32. NEW BIKE RACK FOR 4 BICYCLES. 33. POLE MOUNTED SIGNAGE, TYPE B. RE: D4/A091

34. TRANSFORMER WITH CONCRETE PAD 35. EXISTING MONUMENT SIGN TO REMAIN

36. NOT USED

37. LINE OF PHASE 2.

29. NOT USED

38. COMPACTED GRAVEL DRIVE FOR FIRE DEPARTMENT ACCESS ONLY, COORDINATE WITH FIRE MARSHAL FOR TRAFFIC ENGINEER, TRANSPORTATION DIVISION LOAD CAPACITY REQUIREMENTS

39. NOT USED

40. NOT USED

41. RELOCATED DRYWELL 42. EXISTING GAS METER

43. EXISTING WATER METER

44. ELECTRIC METER

APPROVALS

PROJECT NUMBER: 1007922

APPLICATION NUMBER:

SOLID WASTE MANAGEMENT

DRB CHAIRPERSON, PLANNING DEPARTMENT

Is an Infrastructure List Required? () Yes () No If yes, then a set of approved DRC plans with a work order is required for any construction within Public Right-of-Way or for construction of public improvements.

DRB SITE DEVELOPMENT PLAN APPROVA

02-11-10 DATE hemin 1-27-10 WILLITIES DIVISION DATE PARKS AND RECREATION DEPARTMENT DATE 1/27/10 CITY ENGINEER DATE

SUBMITTAL

7601 Jefferson NE Suite 100

Albuquerque, NM 87109

505 761-9700

fax 761-4222

ARCHITECT

1-15-10

DATE

02-18-10

DATE

dps@dpsdesign.org

Proj # 1007922

orchitecture

interiors

landscape

planning

engineering

09 EPC - 40048 09 EPC - 40050

ENGINEER

ngel

O

ae

scopal

AFD PLANS CHECKING OFFICE ATTROYED/DISAPPROVED SIGNATURE & DATE

General Note: All ramps in the public Right of Way shall have detectible Warning Strips - Raf. A091

EXISTING CHAIN LINK FENCE 9' ACEQUIA RIGHT-OF-WAY PLAYGROUND 8 5 EXISTING EDUCATION / DAYCARE 15'-0" RECEIVED SEP 2 4 2017 HYDROLOGY LOT 5-A SHOWN FOR ILLUSTRATIVE -14 **PURPOSES ONLY**

REVISIONS

St

DRAWN BY REVIEWED BY

DATE JULY 2, 2009 PROJECT NO. 09-0019

DRAWING NAME SITE DEVELOPMENT PLAN FOR

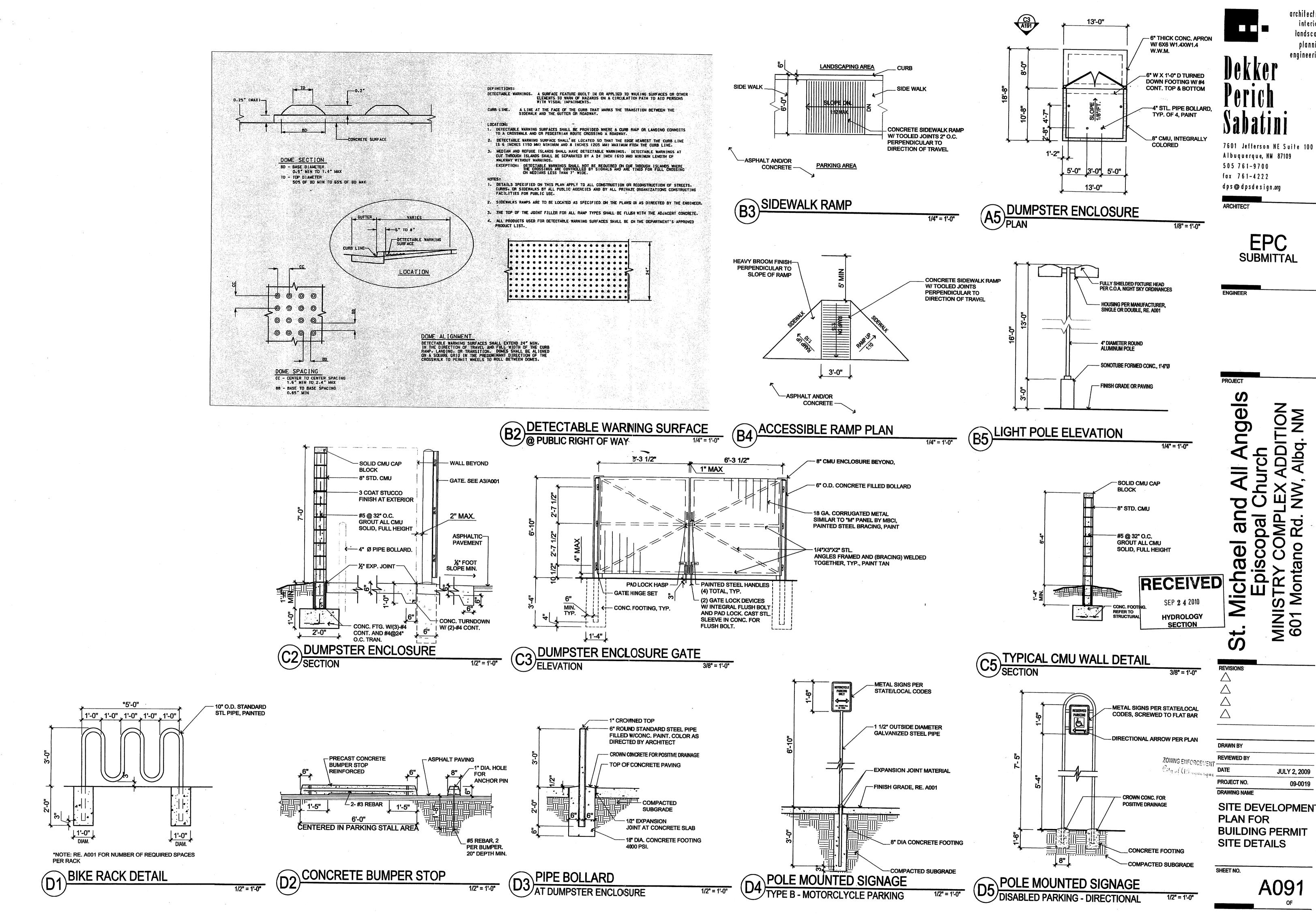
BUILDING PERMIT

SHEET NO.

1" = 20'-0"

A001





architecture interiors landscape planning engineering

GENERAL CONSTRUCTION NOTES

GENERAL

CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED CONSTRUCTION PERMITS, INCLUDING A TOP SOIL DISTURBANCE PERMIT, PRIOR TO START OF CONSTRUCTION.

... ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS ORDINANCES, AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.

REFERENCES MADE TO STANDARD SPECIFICATIONS AND STANDARD DRAWINGS REFER TO THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. 1986 EDITION WITH ALL UPDATES.

THE CONTRACTOR SHALL NOT INSTALL ITEMS AS SHOWN ON THESE PLANS WHEN IT IS OBVIOUS THAT FIELD CONDITIONS ARE DIFFERENT THAN SHOWN IN THE PLANS. SUCH CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN A TIMELY MANNER. IN THE EVENT THE CONTRACTOR DOES NOT NOTIFY THE ENGINEER A TIMELY MANNER, THE CONTRACTOR ASSUMES FULL RESPONSIBILITY AND EXPENSE FOR ANY REVISIONS NECESSARY, INCLUDING ENGINEERING DESIGN FEES

EXISTING SITE IMPROVEMENTS WHICH ARE DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR'S EXPENSE. REPAIRS SHALL BE APPROVED BY THE OWNER PRIOR TO CONSTRUCTION OF THE REPAIRS. REPAIRS SHALL BE ACCEPTED BY THE OWNER PRIOR TO FINAL PAYMENT.

EXISTING FENCING THAT IS NOT DESIGNATED FOR REMOVAL SHALL NOT BE DISTURBED. ANY FENCING THAT IS DISTURBED OR ALTERED BY THE CONTRACTOR SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT THE CONTRACTORS EXPENSE. IF THE CONTRACTOR DESIRES TO REMOVE FENCING TO ACCOMMODATE CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL OBTAIN THE OWNER'S WRITTEN PERMISSION BEFORE FENCE IS REMOVED. CONTRACTOR SHALL RESTORE THE FENCE TO ITS ORIGINAL CONDITION AT THE EARLIEST OPPORTUNITY. WHILE ANY FENCING IS REMOVED, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SECURITY OF THE SITE UNTIL THE FENCE IS RESTORED.

WORK WITHIN ADJACENT RIGHT-OF-WAY

PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES WITHIN ADJACENT RIGHT-OF-WAYS OR WITHIN PROPERTY NOT OWNED BY THE OWNER OF THE PROJECT SITE, THE CONTRACTOR SHALL ASSURE THAT ALL PERMITS AND PERMISSIONS REQUIRED HAVE BEEN OBTAINED IN WRITING.

SURVEY MONUMENTS, PROPERTY CORNERS, BENCHMARKS

THE CONTRACTOR SHALL NOTIFY THE OWNER AT LEAST SEVEN DAYS BEFORE BEGINNING ANY CONSTRUCTION ACTIVITY THAT COULD DAMAGE OR DISPLACE SURVEY MONUMENTS, PROPERTY CORNERS, OR PROJECT BENCHMARKS SO THESE ITEMS MAY BE RELOCATED.

ANY SURVEY MONUMENTS, PROPERTY CORNERS, OR BENCHMARKS THAT ARE NOT IDENTIFIED FOR RELOCATION ARE THE RESPONSIBILITY OF THE CONTRACTOR TO PRESERVE AND PROTECT, RELOCATION OR REPLACEMENT OF THESE ITEMS SHALL BE DONE BY THE OWNER'S SURVEYOR AT THE EXPENSE OF THE CONTRACTOR.

DIMENSIONS

- ALL DIMENSIONS TO CURBS ARE TO THE FLOWLINE UNLESS OTHERWISE NOTED.
- ALL STATIONING IS TO THE CENTERLINE OF THE RIGHT-OF-WAY UNLESS OTHERWISE NOTED.
- ALL SLOPES AND GRADES ARE IN PERCENT UNLESS OTHERWISE NOTED.

CURB ELEVATIONS ARE SHOWN AT THE FLOW LINE UNLESS OTHERWISE NOTED. SEE THE DETAIL SHEET TO DETERMINE THE CURB HEIGHT ABOVE FLOW LINE.

UNLESS OTHERWISE SPECIFIED, SUBGRADE, ENGINEERED FILL, AND STRUCTURAL FILL SHALL BE COMPACTED TO THE FOLLOWING SPECIFICATIONS OF THE ASTM D-1557 MAXIMUM

	MATERIAL/LOCATION	PERCENT COMPACTION
ST	RUCTURAL FILL IN THE BUILDING AREA	95%
	IBBASE FOR SLAB SUPPORT	95%
	SCELLANEOUS BACKFILL BELOW STRUCTURAL	
FIL	L OR ROADWAY PAVEMENT	95%
M	SCELLANEOUS BACKFILL BELOW UNPAVED.	
NO	N-BUILDING AREAS	90%
	ADWAY PAVEMENT SUBGRADE	95%
SID	NEWALK SUBGRADE	90%
CU	RB AND GUTTER SUBGRADE	95%

DRAINAGE CERTITICATION

FND. CHIS. +

NAIL & SHINEF

CONTOUR LINE

POWER POLE

DOWN GUY

YARD LIGHT

HWY R/W MARKER T RAIL

LEGEND

I, Larry D, Read, NMPE 10998, of the firm Larry Read & Associates, Inc., hereby certify that this project has been graded and will drain in substantial compliance with and in accordance with the design intent of the approved plan dated 12/18/2009. The record information edited onto the original design document has been obtained by Thomas D. Johnston, NMPS 14269, of the firm Wayjohn Surveying. I further certify that I have personally visited the project site on 9/30/2010 and have determined by visual inspection that the survey data provided is representative of actual site conditions and is true and correct to the best of my knowledge and belief. This certification is submitted in support of a request for Temporary Certificate of Occupancy.

Exceptions: As-built survey information as shown on the plan.

The record information presented hereon is not necessarily complete and intended only to verify substantial compliance of the Grading and Drainage aspects of this project. Those relying on this record document are advised to obtain independent verification of its accuracy before using it for any other purpose.

WATER VALVE

UNDERGROUND

MANHOLE

FLAG POLE

CLEAN OUT

LIGHT POLE

CORNER TO CORNER DIMENS.

FIEER OPTIC COMMUNICATION 4" CONDUIT

-W- S-G-E- UTLITY (WATER, SEWER, ELEC., GAS, ETC.)

VENT

IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN AN APPROXIMATE LOCATION ONLY BASED ON THE INFORMATION PROVIDED TO THE ENGINEER BY OTHERS. THIS INFORMATION MAY BE INACCURATE OR INCOMPLETE. ADDITIONALLY, UNDERGROUND LINES MAY EXIST THAT ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ACCORDANCE WITH CHAPTER 62, ARTICLE 14-1, THROUGH 14-8, NMSA 1978.

THE CONTRACTOR SHALL CONTACT THE STATEWIDE UTILITY LOCATOR SERVICE AT 1-800-321-2537 AT LEAST TWO WORKING DAYS BEFORE BEGINNING CONSTRUCTION. AFTER THE UTILITIES ARE SPOTTED, THE CONTRACTOR SHALL EXPOSE ALL PERTINENT UTILITIES TO VERIFY THEIR VERTICAL AND HORIZONTAL LOCATION. IF A CONFLICT EXISTS BETWEEN EXISTING UTILITIES AND PROPOSED CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH MINIMAL DELAY.

THE CONTRACTOR SHALL EXERCISE DUE CARE TO AVOID DISTURBING ANY EXISTING UTILITIES, ABOVE OR BELOW GROUND. UTILITIES THAT ARE DAMAGED BY CARELESS CONSTRUCTION SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.

EXISTING VALVES SHALL ONLY BE OPERATED BY THE UTILITY COMPANY. CONTRACTOR SHALL NOTIFY THE UTILITY A MINIMUM OF TWO WORKING DAYS BEFORE ANY VALVE, NEW

THE CONTRACTOR SHALL COORDINATE ANY REQUIRED UTILITY INTERRUPTIONS WITH THE OWNER AND AFFECTED UTILITY COMPANY A MINIMUM OF THREE WORKING DAYS BEFORE

THE CONTRACTOR SHALL MAINTAIN A RECORD DRAWING SET OF PLANS AND PROMPTLY LOCATE ALL UTILITIES, EXITING OR NEW, IN THEIR CORRECT LOCATION, HORIZONTAL AND VERTICAL. THIS RECORD SET OF DRAWINGS SHALL BE MAINTAINED ON THE PROJECT SITE AND SHALL BE AVAILABLE TO THE OWNER AND ENGINEER AT ANY TIME DURING

EROSION CONTROL. ENVIRONMENTAL PROTECTION, AND STORM WATER POLLUTION PREVENTION PLAN

THE CONTRACTOR SHALL CONFORM TO ALL CITY, COUNTY, STATE, AND FEDERAL DUST AND EROSION CONTROL REGULATIONS. THE CONTRACTOR SHALL PREPARE AND OBTAIN ANY DUST CONTROL OR EROSION CONTROL PERMITS FROM THE REGULATORY AGENCIES.

THE CONTRACTOR SHALL PROMPTLY REMOVE ANY MATERIAL EXCAVATED WITH THE PUBLIC RIGHT-OF-WAY OR ADJACENT PROPERTY TO KEEP IT FROM WASHING OFF THE

THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE ONTO ADJACENT PROPERTY BY CONSTRUCTION TEMPORARY EROSION CONTROL BERMS OR INSTALLING SILT FENCES AT THE PROPERTY LINES AND WETTING SOIL TO PREVENT IT FROM BLOWING.

WATERING, AS REQUIRED FOR CONSTRUCTION DUST CONTROL, SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO MEASUREMENT OR PAYMENT SHALL BE MADE. CONSTRUCTION AREAS SHALL BE WATERED FOR DUST CONTROL IN COMPLIANCE WITH GOVERNMENT ORDINANCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND

ANY AREAS DISTURBED BY CONSTRUCTION AND NOT COVERED BY LANDSCAPING OR IMPERVIOUS SURFACES SHALL BE REVEGETATED WITH RECLAMATION SEEDING.

THE CONTRACTOR SHALL PROPERLY HANDLE AND DISPOSE OF ALL ASPHALT REMOVED ON THE PROJECT BY HAULING TO AN APPROVED DISPOSAL SITE IN ACCORDANCE WITH THE REQUIREMENTS OF THE NEW MEXICO SOLID WASTE ACT.

ALL WASTE PRODUCTS FROM THE CONSTRUCTION SITE, INCLUDING ITEMS DESIGNED FOR REMOVAL, CONSTRUCTION WASTE, CONSTRUCTION EQUIPMENT WASTE PRODUCTS (OIL, GAS, TIRES, ETC.), GARBAGE, GRUBBING, EXCESS CUT MATERIAL, VEGETATIVE DEBRIS, ETC.. SHALL BE APPROPRIATELY DISPOSED OF OFFSET AT NO ADDITIONAL COST TO THE OWNER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ANY PERMITS REQUIRED FOR HAUL OR DISPOSAL OF WASTE PRODUCTS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE WASTE DISPOSAL SITE COMPLIES WITH GOVERNMENT REGULATIONS REGARDING THE ENVIRONMENT, ENDANGERED SPECIES, AND

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEANUP AND REPORTING OF SPILLS OF HAZARDOUS MATERIALS ASSOCIATED WITH THE CONSTRUCTION SITE. HAZARDOUS MATERIALS, INCLUDES GASOLINE, DIESEL FUEL, MOTOR OIL, SOLVENTS, CHEMICALS, PAINT, ETC. WHICH MAY BE A THREAT TO THE ENVIRONMENT. THE CONTRACTOR SHALL REPORT THE DISCOVERY OF PAST OR PRESENT SPILLS TO THE NEW MEXICO EMERGENCY RESPONSE AT 1-800-219-6157.

THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS CONCERNING SURFACE AND UNDERGROUND WATER, CONTACT WITH SURFACE WATER BY CONSTRUCTION EQUIPMENT AND PERSONNEL SHALL BE MINIMIZED, EQUIPMENT MAINTENANCE AND REFUELING OPERATIONS SHALL BE PERFORMED IN AN ENVIRONMENTALLY SAFE MANNER IN

THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS CONCERNING CONSTRUCTION NOISE AND HOURS OF OPERATION

ALL SURFACES ALONG ACCESSIBLE ROUTES AND FOR HANDICAP RAMPS SHALL BE STABLE FIRM, SLIDE RESISTANT AND SHALL COMPLY WITH UNIFORM FEDERAL ACCESSIBILITY

LONGITUDINAL SLOPES ALONG ACCESSIBLE ROUTE SIDEWALKS, EXCEPT AT HANDICAP RAMPS, SHALL NOT BE STEEPER THAN 1:20. CROSS SLOPES ALONG ACCESSIBLE ROUTE SIDEWALKS EXCEPT AT HANDICAP RAMPS, SHALL NOT BE STEEPER THAN 1:48. SLOPES IN ACCESSIBLE PARKING SPACES, ACCESS AISLES, AND PASSENGER LOADING ZONES

THE SITE SHALL COMPLY WITH ANSI A117.1-1992, "ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES".

TRAFFIC CONTROL

V_{6-HR} (acre-ft) = (WEIGHTED E)(AREA)/12

 V_{10DAY} (acre-ft) = V_{8-HR} + $(A_D)(P_{10DAY} - P_{8-HR})/12$

 $Q (cfs) = (Q_{PA})(A_A) + (Q_{PB})(A_B) + (Q_{PC})(A_C) + (Q_{PD})(A_D)$

THE CONTRACTOR SHALL PROVIDE ALL REQUIRED TRAFFIC CONTROL PLANS. ALL SIGNS, BARRICADES, CHANNELIZATION DEVICES, SIGN FRAMES AND ERECTION OF SUCH DEVICES SHALL CONFORM TO THE REQUIREMENTS OF " MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" LATEST EDITION. PRIOR TO CONSTRUCTION, TRAFFIC CONTROL PLANS SHALL BE APPROVED BY THE GOVERNING AUTHORITY.

TABLE 1 ST. MICHAEL'S EPISCOPAL CHURCH **100-YEAR HYDROLOGIC CALCULATIONS** DEC 091

BASIN	AREA			REATMEN		WEIGHTED					
		A	В	C	D	E	V (6-hr)	V (6-hr)	V(10 day)	V(10 day)	Q
#	(acre)	(%)	(%)	(%)	(%)	(in)	(acre-ft)	(cu-ft)	(acre-ft)	(cu-ft)	(cfs)
					EXISTI	NG SITE DISC	HARGE		, , , , , , , , , , , , , , , , , , , ,	(00.12)	(619)
B1	0.2642	0.0	0.0	87.0	13.0	1.26	0.03	1,207	0.03	1,391	0.00
B2	0.1416	0.0	28.0	37.0	35.0	1.38	0.02	708	0.02	973	0.88
B3	0.0060	0.0	0.0	0.0	100.0	2.12	0.00	46	0.02		0.49
B4	0.9003	0.0	5.0	4.0	91.0	2.01	0.15	6,580	0.00	78	0.03
B5	0.0068	0.0	0.0	0.0	100.0	2.12	0.00	53		10,952	4.07
B6	0.2525	0.0	22.0	37.0	41.0	1.46	0.03		0.00	89	0.03
B7	0.4899	0.0	0.0	33.0	67.0	1.79	0.03	1,337	0.04	1,890	0.91
B8	0.0179	0.0	0.0	100.0	0.0	1.13		3,189	0.11	4,940	2.05
TOTAL	2.08			100.0	0.0	1.13	0.00	74	0.00	74	0.06
					DBOD	0050 0005	0.30	13,194	0.47	20,386	8.51
B1	1.2915	0.0	6.0	0.0		OSED COND				:	
B2	0.0124	0.0	100.0	8.0	86.0	1.96	0.21	9,190	0.35	15,117	5.72
B3	0.0087			0.0	0.0	0.78	0.00	35	0.00	35	0.03
B4	0.0067	0.0	0.0	0.0	100.0	2.12	0.00	67	0.00	113	0.04
B5		0.0	0.0	0.0	100.0	2.12	0.00	53	0.00	89	0.03
	0.2525	0.0	22.0	37.0	41.0	1.46	0.03	1,337	0.04	1,890	0.91
B6	0.4899	0.0	0.0	33.0	67.0	1.79	0.07	3,189	0.11	4,940	2.05
B7	0.0179	0.0	0.0	100.0	0.0	1.13	0.00	74	0.00	74	
OTAL	2.08						0.32	13,945	0.51		0.06
EXCESS PRECIP.		0.53	0.78	1.13	2.12	E _i (in)		10,040	0.51	22,258	8.84
	PEAK DISCHARGE		2.28	3.14	4.7	Q _{PI} (cfs)					
EAK DISC	1	1.56									

 P_{24-HR} (in.) = 2.75

 $P_{10DAY}(in.) = 3.95$

ABBREVIATIONS

A = AIR LINE	NG = NATURAL GROUND
AD = AREA DRAIN	PB = ELECTRICAL PULL BOX
AIP = ABANDONED IN PLACE	- TOLL DOX
BLDG. = BUILDING	PCC = PORTLAND CEMENT CONCRETE PP = POWER POLE
BM = BENCHMARK	PVC = POLYVINYL CHLORIDE PIPE
CATV = CABLE TELEVISION LINE	THE SHEDNING THE
CIP = CAST IRON PIPE	THE STATE OF THE S
CMP = CORRUGATED METAL PIPE	
CMPA = CORRUGATED METAL PIPE ARCH	R/W = RIGHT-OF-WAY S = SLOPE
CO = CLEANOUT	
CONC = CONCRETE	
CL = CENTERLINE	
DIA = DIAMETER	
DIP = DUCTILE IRON PIPE	
E = ELECTRIC LINE	
ELEV = ELEVATION	Toolse 1101th
FF = FINISHED FLOOR ELEVATION	TA = TOP OF ASPHALT CURR
FG = FINISHED GRADE	TO TO THE POOR D
FH = FIRE HYDRANT	
G = GAS PIPE	TCC = TOP OF CONCRETE SLIMB (PAVEMENT)
GM = GAS METER	TG = TOP OF GRATE
GV = GATE VALVE	TS = TOP OF SIDEWALK
HI PT = HIGH POINT	TW = TOP OF WALL
INV = INVERT ELEVATION	TYP = TYPICAL
LF = LINEAL FEET	TB = TELEPHONE BOX
LP = LIGHT POLE	UE = UNDERGROUND ELECTRIC
L/S = LANDSCAPING	UT = UNDERGROUND TELEPHONE
MH = MANHOLE	W = WATER
	WM = WATER METER
	WV = WATER VALVE
	· · · · · · · · · · · · · · · · · · ·

DRAINAGE DISCUSSION

LOCATION & DESCRIPTION

SAINT MICHAEL'S ALL ANGLES CHURCH IS PROPOSING TO CONSTRUCT AN ADDITION ON THE WEST END THE EXISTING CHURCH AND MODIFY THE EXISTING PAVED PARKING LOT TO THE SOUTH OF THE ADDITION. IN ORDER TO FACILITATE THE REQUIRED PARKING, THE CHURCH HAS PURCHASED AND IS PROPOSING TO REPLAT INTO THE EXISTING PARCEL (LOT 9A) THE RESIDENTIAL LOT TO THE WEST (LOT 10A). THIS REPLAT WILL PROVIDE SUFFICIENT PARKING AND TRAFFIC CIRCULATION FOR THE FACILITY WITH THE ADDITION INCORPORATED. THE REPLATTED PARCEL WILL ENCOMPASS APPROXIMATELY 2.0 ACRES.

HYDROLOGY

THE HYDROLOGY FOR THIS PROJECT WAS ANALYZED USING THE QUICK CALCULATIONS OF THE JUNE 1997 RELEASE OF THE CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL. SECTION 22.2.

PRECIPITATION

THE 100-YR, 6-HR DURATION STORM EVENT WAS USED AS THE DESIGN STORM FOR THIS ANALYSIS. THE SITE LIES WITHIN THE ZONE 2 PRECIPITATION AREA FOR THE CITY OF ALBUQUERQUE, AS IDENTIFIED IN THE CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL, SECTION 22.2. THEREFORE, TABLES WITHIN THIS SECTION WERE USED TO ESTABLISH THE EXCESS PRECIPITATION AND PEAK DISCHARGE.

EXISTING DRAINAGE

THE WESTERN PORTION OF LOT 9A DRAINS SOUTH, ACROSS THE EXISTING ASPHALT PAVED PARKING LOT, AND GATHERS IN A DEPRESSED LANDSCAPE AREA BETWEEN THE SIDEWALK ALONG MONTANO ROAD AND THE SOUTH EDGE OF THE PARKING LOT. ONCE IN THIS LANDSCAPE AREA, THE RUNOFF INFILTRATES UNTIL IT ENTERS THE EXISTING 18" CONCRETE STORM DRAIN LATERAL INSTALLED WITH THE MONTANO STORM DRAIN. THERE IS NO FORMAL STORM INLET. THE MAJORITY OF LOT 10A IS BELOW THE ELEVATION ON MONTANO BLVD.

LOT 10A SHEET FLOWS FROM NORTH TO SOUTH UNTIL THE RUNOFF DISCHARGES INTO MANTANO OVER THE EXISTING SIDEWALK.

THE PARCELS SURROUNDING LOT 10A AND 9A ARE ALL DEVELOPED. THE RESIDENTIAL LOTS TO THE NORTH DRAIN NORTH AND DO NOT IMPACT THIS PROJECT. TO THE SOUTH, IS MONTANO BLVD. WHICH HAS A RELATIVEL RECENT STORM DRAIN SYSTEM INSTALLED. THE LOTS TO THE EAST AND WEST DRAIN VIA SURFACE FLOW INTO MONTANO AND DON NOT IMPACT THIS SITE.

DEVELOPED CONDITION

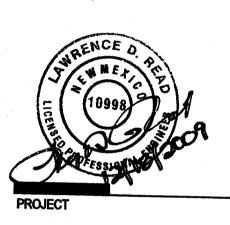
THE ADDITIONS TO THE CHURCH ON THE WEST END WILL HAVE ONLY MINOR IMPACTS TO HE EXISTING DRAINAGE PATTERNS. THE NARROW STRIP OF LAND BETWEEN THE ADDITION AND THE NORTH PROPERTY LINE WILL DRAIN VIA SWALE TO THE WEST, AROUND THE OPEN END OF THE AND THEN SOUTH ACROSS THE PARKING LOT TO THE CURRENT LANDSCAPED AREA SOUTH OF THE PARKING LOT PAVEMENT. SINCE IT IS PROPOSED TO REPLAT LOT 10A INTO THIS SITE, THE PROPOSED PAVED PARKING WILL DRAIN EAST ON THE SURFACE INTO THE EXISTING PARKING LOT AND JOIN WITH THE CURRENT DISCHARGES.

THIS GRADING PLAN IS PROPOSING TO FORMALIZE THE DRAINAGE DISCHARGE INTO THE ONSITE STORM LATERAL BY CONSTRUCTING A TYPE 'D' INLET WITHIN THE LANDSCAPE AREA. CONSTRUCTION OF THIS ADDITION AND REPLAT WILL NOT IMPACT ANY ADJACENT PARCELS.

architecture interiors landscape planning engineering

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ARCHITECT



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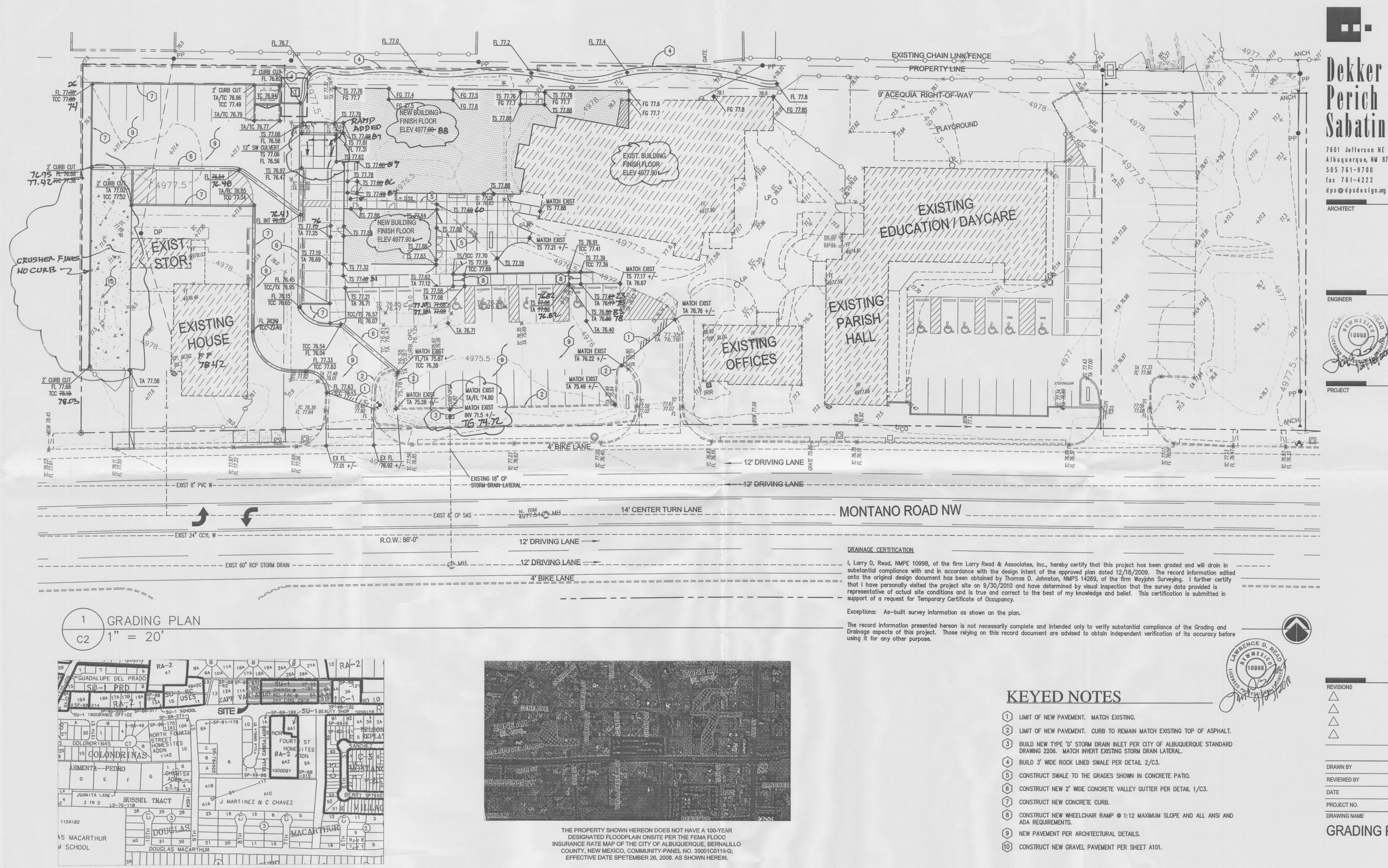
Š **REVISIONS**

DRAWN BY **REVIEWED BY**

OCTOBER 13, 2009 DATE PROJECT NO. 09-0019 DRAWING NAME

CIVIL RECEIVEDES OCT 0 1 2010

SHEET NO Y DROLOGY



FLOODPLAIN

VICINITY MAP ZONE ATLAS PAGE F-14-Z

engineering

Albuquerque, NM 87109



GRADING PLAN

SHEET NO.