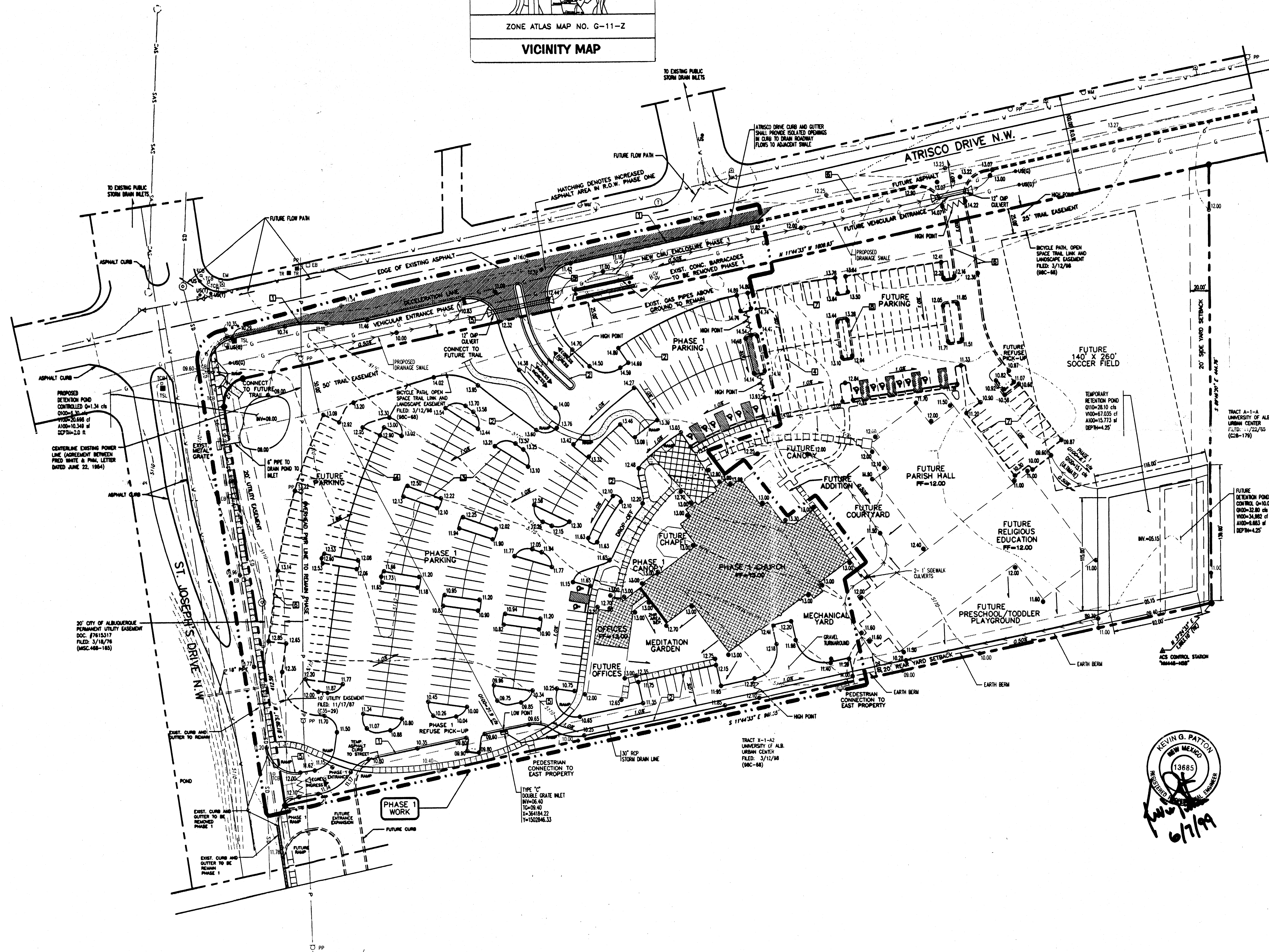
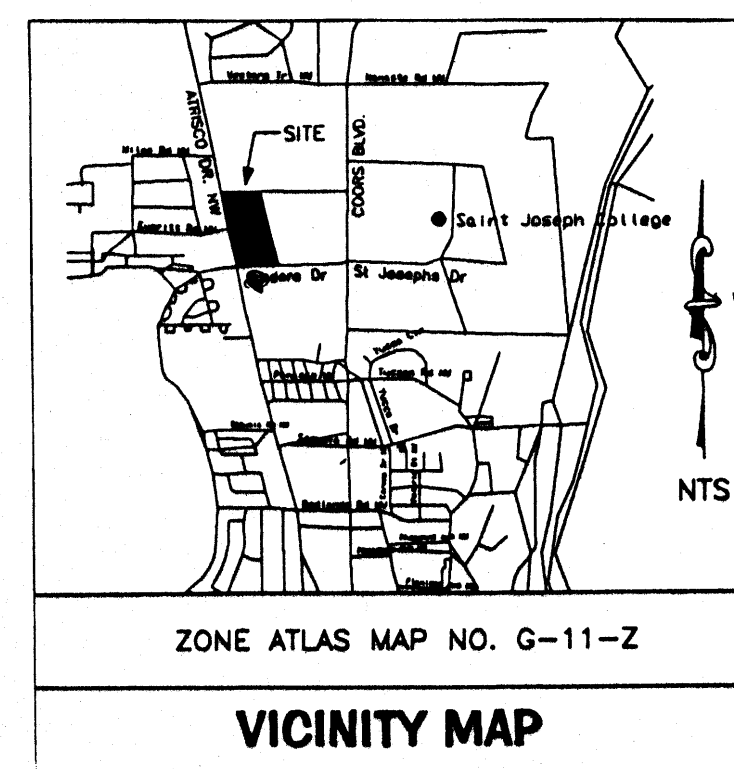


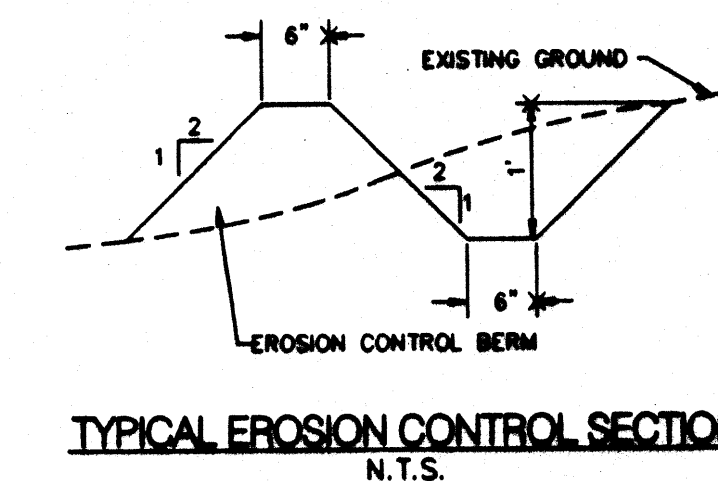


GENERAL NOTES

1. CONTRACTOR MUST OBTAIN A TOPSOIL DISTURBANCE PERMIT FROM THE ENVIRONMENTAL HEALTH DIVISION PRIOR TO CONSTRUCTION.
2. THE CONTRACTOR IS TO REFER TO EARTHWORK SPECIFICATION AS NOTED IN THE SOILS REPORT PREPARED BY GEO-TEST, INC. DATED 11/12/98.
3. THE CONTRACTOR SHALL CONFORM TO ALL CITY, COUNTY, STATE, AND FEDERAL DUST CONTROL MEASURES AND REQUIREMENTS AND WILL BE RESPONSIBLE FOR PREPARING AND OBTAINING ALL NECESSARY APPLICATIONS AND APPROVALS.
4. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE LOTS INTO PUBLIC RIGHT-OF-WAY. THIS CAN BE ACHIEVED BY CONSTRUCTING TEMPORARY BERM AS PER DETAIL SHEET 3 AND NETTING THE SOIL TO KEEP IT FROM BLOWING.
5. ALL SPOT ELEVATIONS ARE TO FLOWLINE UNLESS OTHERWISE NOTED.
6. BOULDERS, GREATER THAN 3 FEET IN DIAMETER, EXCAVATED DURING GRADING ACTIVITIES SHALL BE STOCKPILED AND DISPOSED OF AT THE DISCRETION OF THE OWNER.

KEYED GENERAL NOTES

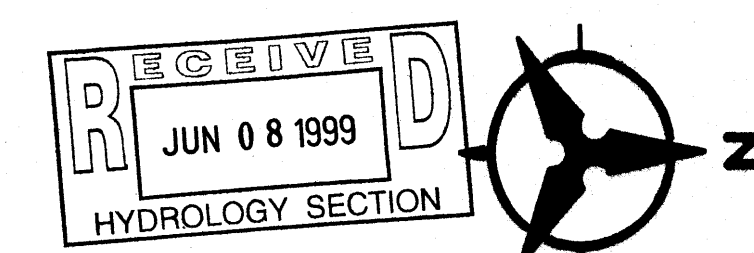
1. STANDARD CURB AND GUTTER AS PER COA STD DWG 2415
2. MEDIAN CURB AND GUTTER AS PER COA STD DWG 2415
3. 6" PINNED CURB AND GUTTER (TYP. ON ISLANDS) AS PER COA STD DWG 2415
4. TEMPORARY ASPHALT CURB (PHASE 1)
5. TRANSITION FROM STANDARD CURB AND GUTTER TO 6" MEDIAN CURB AND GUTTER
6. FUTURE STANDARD CURB AND GUTTER AS PER COA STD DWG 2415
7. MEDIAN CURB AND GUTTER AS PER COA STD DWG 2415
8. 6" PINNED CURB AND GUTTER (TYP. ON ISLANDS) AS PER COA STD DWG 2415



A BERM WITH THE DIMENSIONS SHOWN SHALL BE MAINTAINED ALONG THE PROPERTY LINE DURING CONSTRUCTION, UNTIL COMPLETION OF THE PROJECT.

DESIGNED IN ACCORDANCE WITH MASTER DRAINAGE PLAN FOR ALTURA WEST AND ARCHDIOCESE OF SANTA FE PROPERTIES NEAR ST. PIUS HIGH SCHOOL OCTOBER 21, 1997

ROUGH GRADING (±0.5')
APPROVED FOR ROUGH GRADING DATE



ENVIRONMENTAL PLANNING COMMISSION SUBMITTAL NOT FOR CONSTRUCTION

1"=50'-0"

50' 0 50' 100' 150'

Saint Joseph on the Rio Grande Albuquerque, New Mexico

PROJECT NO: 9930A03
DRAWN BY: BS
CHECKED BY: KGP

DATE: 04/26/99

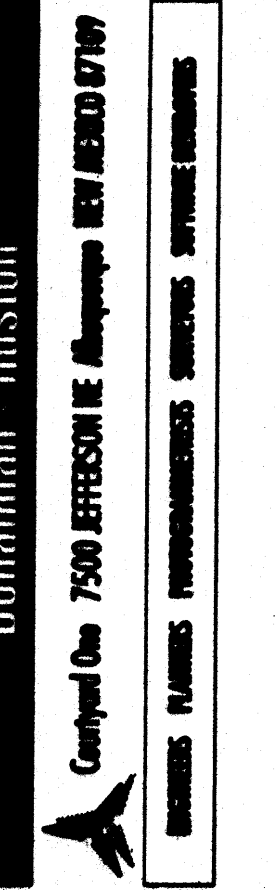
REVISIONS:



GRADING & DRAINAGE PLAN

SHEET: 1

OF: 3



Saint Joseph on the Rio Grande

Albuquerque, New Mexico

PROJECT NO: 99520A03
DRAWN BY: BS
CHECKED BY: KGP

DATE: 07/16/99

REVISIONS:
$$\Delta$$

FINAL PAVING & DRAINAGE PLAN

MEET:

C.1

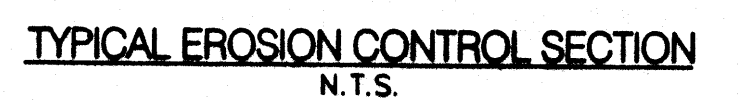
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GENERAL NOTES

1. CONTRACTOR MUST OBTAIN A TOPSOIL DISTURBANCE PERMIT FROM THE ENVIRONMENTAL HEALTH DIVISION PRIOR TO CONSTRUCTION.
2. THE CONTRACTOR IS TO REFER TO EARTHWORK SPECIFICATION AS NOTED IN THE SOILS REPORT PREPARED BY GEO-TEST, INC. DATED -----
3. THE CONTRACTOR SHALL CONFORM TO ALL CITY, STATE, AND FEDERAL DUST CONTROL MEASURES AND REQUIREMENTS AND WILL BE RESPONSIBLE FOR PREPARING AND OBTAINING ALL NECESSARY APPLICATIONS AND APPROVALS.
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5. ALL SPOT ELEVATIONS ARE TO FLOWLINE OR FINISH GRADE UNLESS OTHERWISE NOTED. TA=TOP ASPHALT TS=TOP SIDEWALK
6. BOULDERS, GREATER THAN 3 FEET IN DIAMETER, EXCAVATED DURING GRADING ACTIVITIES SHALL BE STOCKPILED AND DISPOSED OF AT THE DISCRETION OF THE OWNER.
7. ROUGH GRADING WITHIN PUBLIC R.O.W. ALONG ATRISCO WILL BE INCLUDED IN THIS CONTRACT, INCLUDING DRAINAGE SWALES, BERMS AND CURBVERTS.

KEYED GENERAL NOTES

- 1 STANDARD CURB AND GUTTER
AS PER COA STD DWG 2415
- 2 MEDIAN CURB AND GUTTER
AS PER COA STD DWG 2415
- 3 6" PINNED CURB AND GUTTER
TYPE I (TYP. ON ISLANDS)
AS PER COA STD DWG 2415
- 4 TEMPORARY ASPHALT CURB
(PHASE 1)
- 5 TRANSITION FROM STANDARD CURB
AND GUTTER TO 6" MEDIAN CURB
AND GUTTER
- 6 FUTURE STANDARD CURB AND GUTTER
AS PER COA STD DWG 2415
- 7 FUTURE MEDIAN CURB AND GUTTER
AS PER COA STD DWG 2415
- 8 FUTURE 6" PINNED CURB AND
GUTTER TYPE I (TYP. ON ISLANDS)
AS PER COA STD DWG 2415
- 9 ASPHALT AND TOP OF SIDEWALK
ARE FLUSH, THIS LOCATION

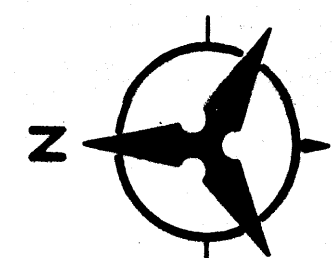


A BERM WITH THE DIMENSIONS SHOWN SHALL BE MAINTAINED ALONG THE PROPERTY LINE DURING CONSTRUCTION, UNTIL COMPLETION OF THE PROJECT.

DESIGNED IN ACCORDANCE WITH MASTER
DRAINAGE PLAN FOR ALTURA WEST AND
ARCHDIOCESE OF SANTA FE PROPERTIES
NEAR ST. PIUS HIGH SCHOOL
OCTOBER 21, 1997

ROUGH GRADING (+0.5'):

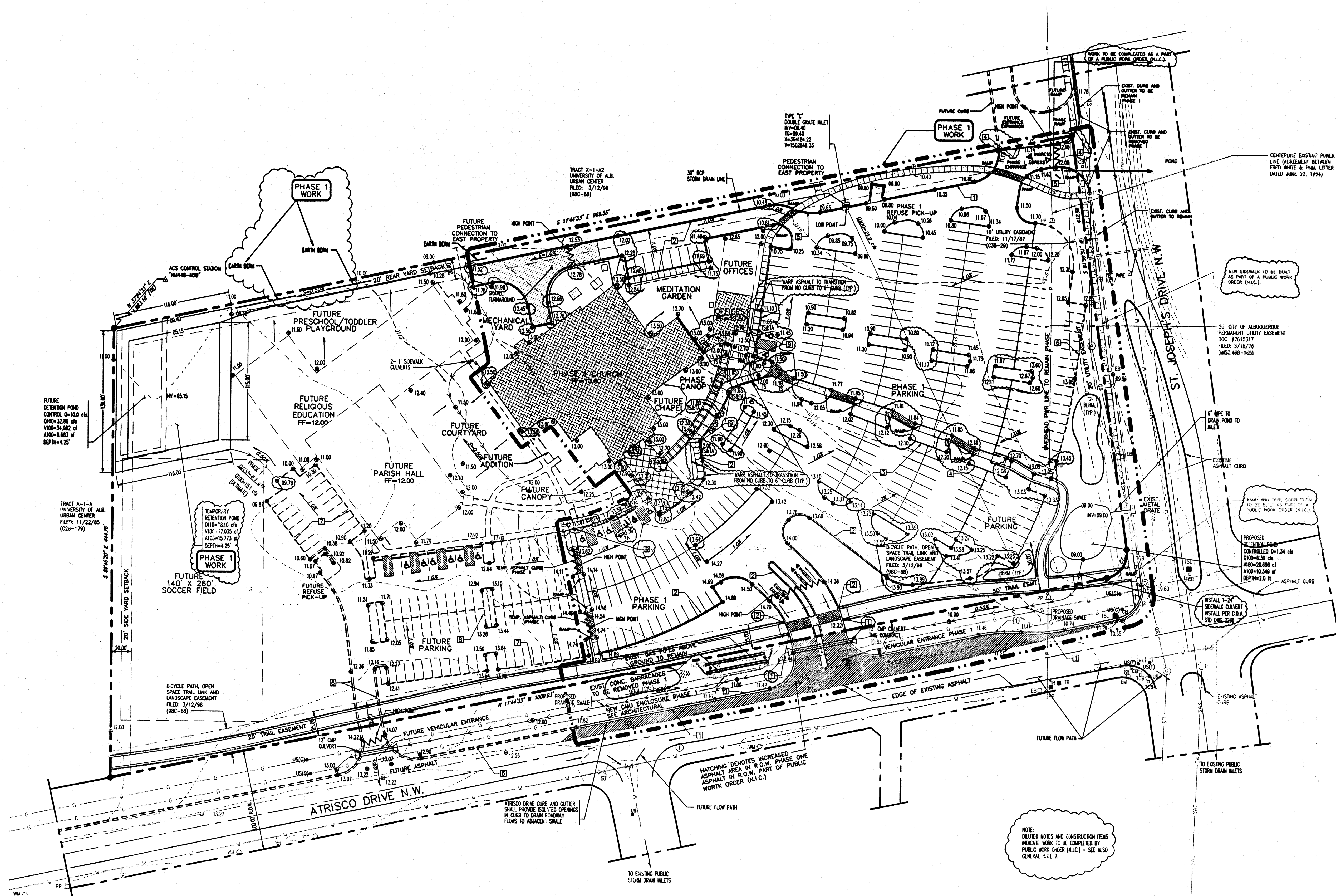
APPROVED FOR ROUGH GRADING _____ DATE _____

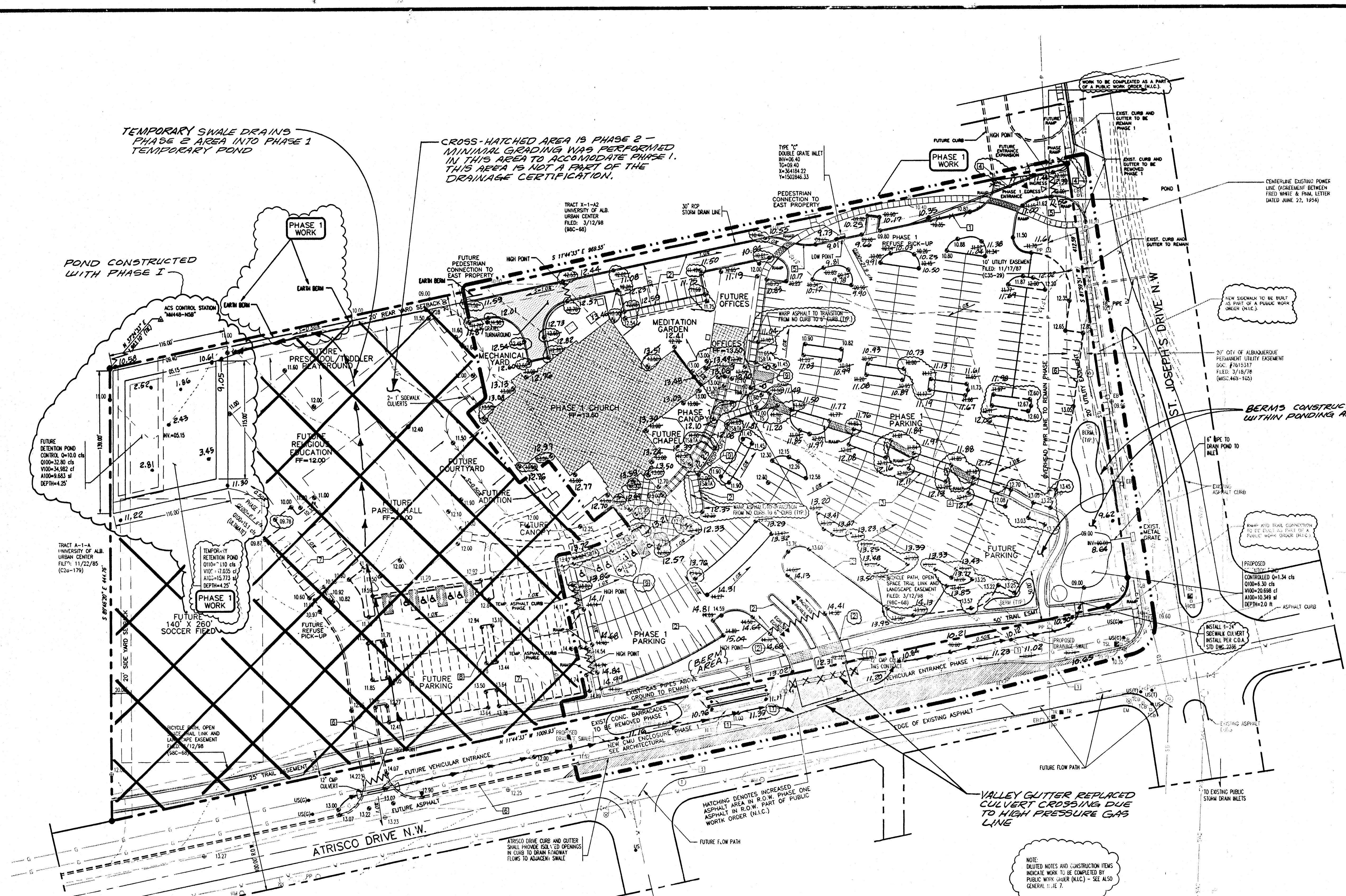


NOV 21 2000

HYDROLOGY SECTION

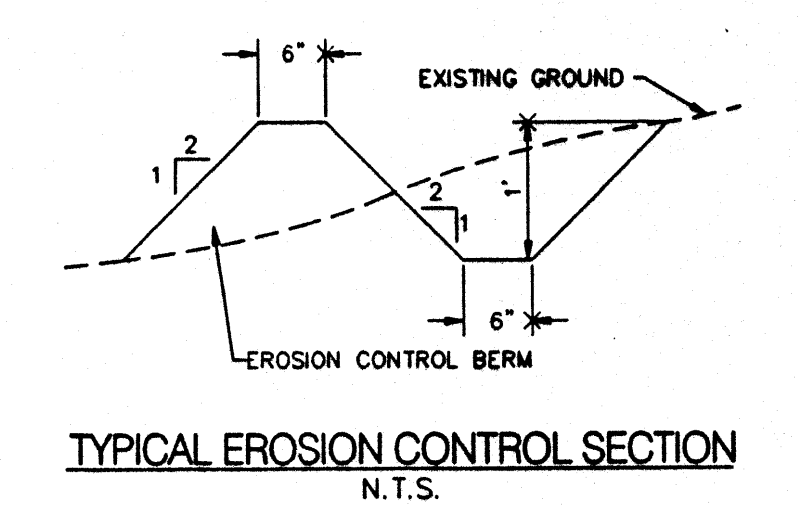
1"=50'-0" 50' 0 50' 100' 150'





- GENERAL NOTES**
1. CONTRACTOR MUST OBTAIN A TOPSOIL DISTURBANCE PERMIT FROM THE ENVIRONMENTAL HEALTH DIVISION PRIOR TO CONSTRUCTION.
 2. THE CONTRACTOR IS TO REFER TO EARTHWORK SPECIFICATION AS NOTED IN THE SOILS REPORT PREPARED BY GEO-TEST, INC. DATED 11/17/97.
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- KEYED GENERAL NOTES**
- 1 STANDARD CURB AND GUTTER AS PER COA STD DWG 2415
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 - 9 ASPHALT AND TOP OF SIDEWALK ARE FLUSH, THIS LOCATION



DESIGNED IN ACCORDANCE WITH MASTER DRAINAGE PLAN FOR ALTURA WEST AND ARCHDIOCESE OF SANTA FE PROPERTIES NEAR ST. PIUS HIGH SCHOOL
OCTOBER 21, 1997

ROUGH GRADING (+/-0.5')
APPROVED FOR ROUGH GRADING _____ DATE _____

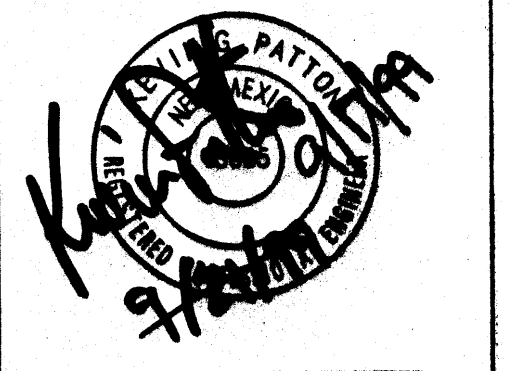
DRAINAGE CERTIFICATION (PHASE 1 ONLY)

I, KEVIN G. PATTON OF BOHANNAN HUSTON, N.M.P.E. # 13685 HEREBY CERTIFY THAT THE AS-BUILT DRAINAGE CONDITIONS OF THE SITE ARE IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED GRADING AND DRAINAGE PLAN, TO THE BEST OF MY KNOWLEDGE AND BELIEF. AS-BUILT ELEVATIONS ARE SHOWN ON THE PLAN WHERE THE ORIGINAL DESIGN ELEVATION HAS BEEN CROSSED OUT AND THE AS-BUILT ELEVATION ADDED. AS-BUILT ELEVATIONS WERE VERIFIED BY BOHANNAN HUSTON L.S. # _____

THIS STATEMENT DOES NOT REPRESENT CERTIFICATION OF CONTRACTOR'S METHODS OR MATERIALS.

Kevin Patton
NAME
DATE 1.23.01

KEVIN G. PATTON
NEW MEXICO
REGISTERED PROFESSIONAL ENGINEER
13685



Bohannon - Huston
Certified On 7500 Jefferson St. Albuquerque, New Mexico 87109
BUSINESS: PLANNING, ENGINEERING, SURVEYING, SOFTWARE DEVELOPMENT

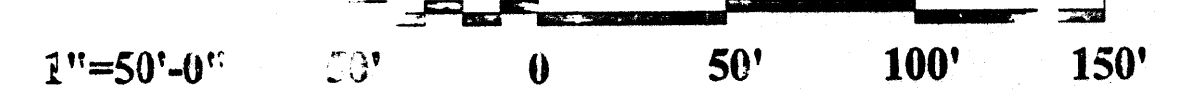
Saint Joseph on the Rio Grande
Albuquerque, New Mexico

PROJECT NO: 99520A03
DRAWN BY: BS
CHECKED BY: KGP

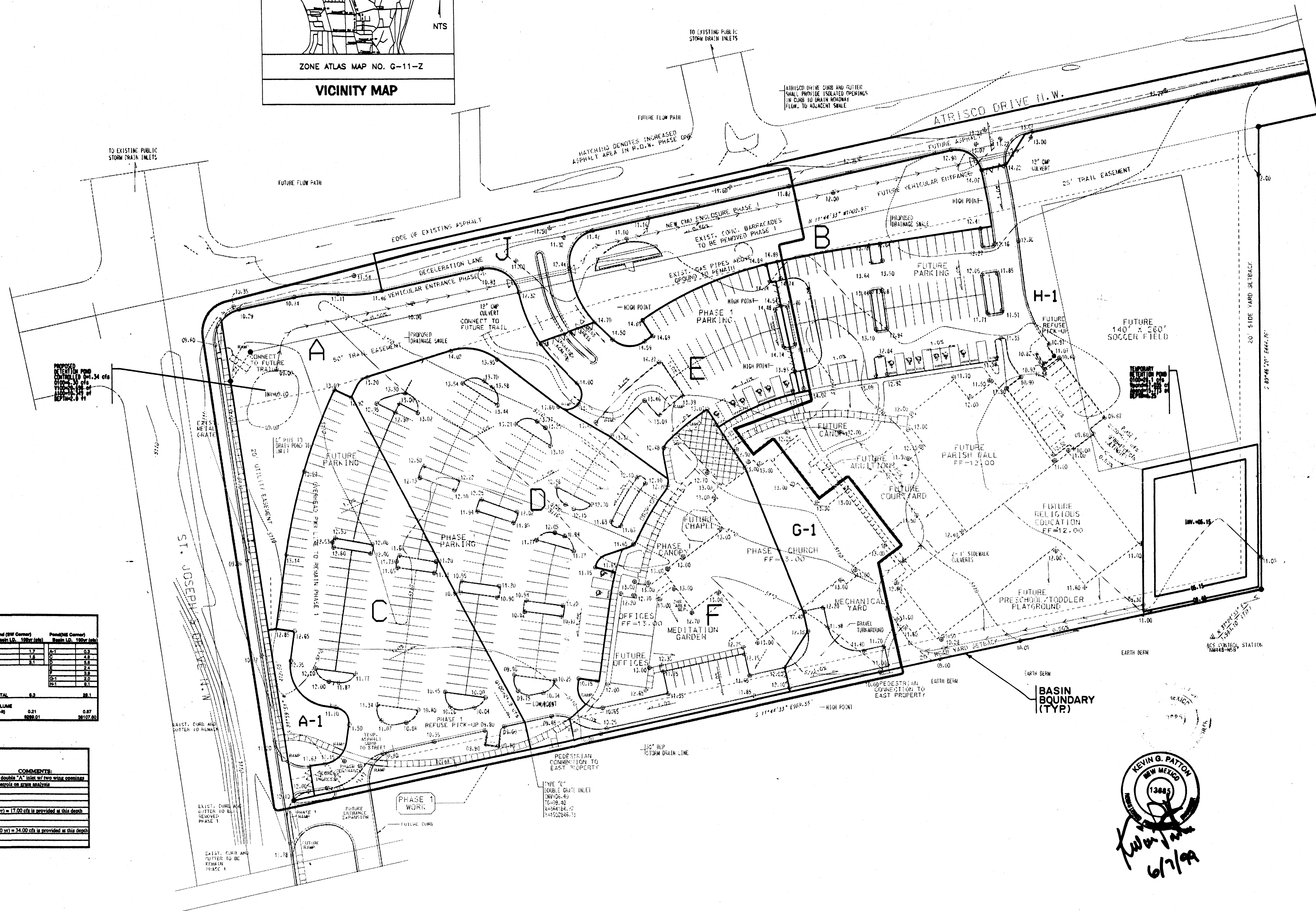
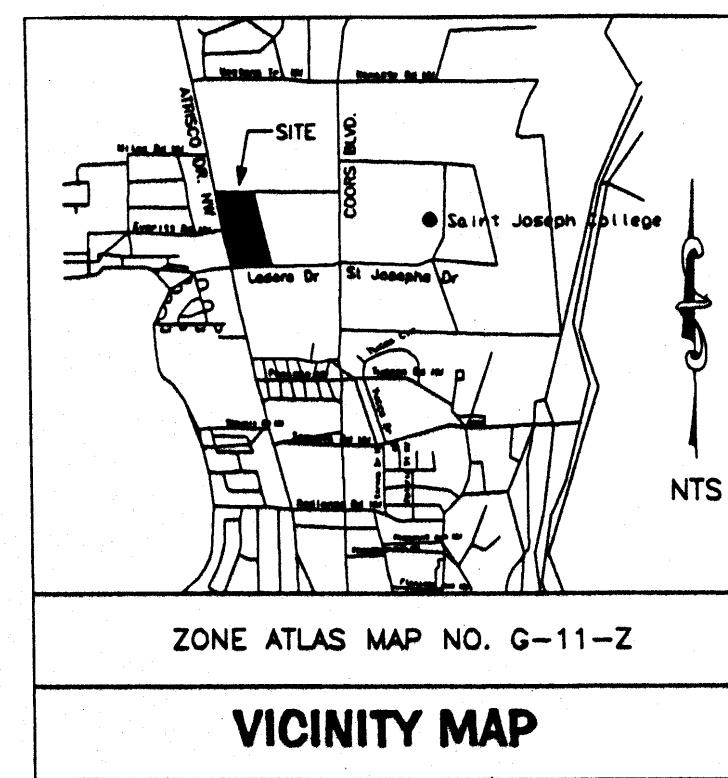
DATE: 07/16/99
REVISIONS:
△
△
△
△

FINAL GRADING & DRAINAGE PLAN

SHEET: **C.1**
OF:



DESIGNED IN ACCORDANCE WITH MASTER
DRAINAGE PLAN FOR ALTURA WEST
AND ARCHDIOCESE OF SANTA FE
PROPERTIES NEAR ST. PIUS HIGH SCHOOL
OCTOBER 21, 1997



HYDROLOGICAL VOLUMETRIC & DISCHARGE DATA (PHASE 5)												
BASIN AREA ID. (SQ)	% LAND TREATMENT				RUNOFF (MM) (IN)			Peak (mm) (in) Reach ID. (1000 ft)	Peak(SQ) (Cmsq) Reach ID. (1000 ft)			
	A	B	C	D	10/78	10/79	10/77					
A = 0.84	0.8%	10.0%	0.0%	0.0%	0.08	0.08	0.1	1.7	A-1 = 0.3			
AC = 0.13	0.0%	10.0%	0.0%	0.0%	0.00	0.01	0.1	0.3	A = 0.3			
B = 0.84	0.0%	10.0%	0.0%	0.0%	0.08	0.08	0.1	1.7	B = 0.3			
D = 1.18	0.0%	10.0%	0.0%	0.0%	0.11	0.11	0.1	2.1	D = 0.4			
C = 0.84	0.0%	10.0%	0.0%	0.0%	0.08	0.08	0.1	1.7	C = 0.3			
B = 0.80	0.0%	10.0%	0.0%	0.0%	0.08	0.08	0.1	1.6	B = 0.4			
C = 0.84	0.0%	10.0%	0.0%	0.0%	0.08	0.08	0.1	1.7	C = 0.3			
ACI = 0.09	0.0%	10.0%	0.0%	0.0%	0.00	0.01	0.1	0.0	ACI = 0.0			
D = 0.71	0.0%	0.0%	0.0%	100.0%	0.07	0.18	0.1	2.0	D = 0.0			
TOTAL	11.8				0.61	0.18	0.17	84.3				
								VOLUME (mm) (in)	0.21 5008.01			
								0.87	38.07			

	WS		HEIGHT		Q (CFS)	Q (CFS)	Q (CFS)	TOTAL	
	WEIR	WEIR	DOUBLES	WEIR	DOUBLES	DOUBLES	(CFS)		
	ELEVATION ABOVE INLET				OPENING	GRATE			
CFL @ INLET	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Flow at double "A" inlet over two twice openings	
0.10	0.10	0.10	0.10	0.10	0.25	0.47	0.72	Weir controls gate opening	
0.20	0.20	0.20	0.20	0.20	0.40	0.74	1.14		
0.30	0.30	0.30	0.30	0.30	0.57	1.04	1.61		
0.40	0.40	0.40	0.40	0.40	0.74	1.34	2.08		
0.50	0.50	0.50	0.50	0.50	0.91	1.64	2.55		
0.60	0.60	0.60	0.60	0.60	1.08	1.94	3.02		
0.70	0.70	0.70	0.70	0.70	1.25	2.24	3.49	Q(100 cfs) = 17.0 cfs is provided at this depth	
0.80	0.80	0.80	0.80	0.80	1.42	2.54	3.96		
0.90	0.90	0.90	0.90	0.90	1.59	2.84	4.43		
1.00	1.00	1.00	1.00	1.00	1.76	3.14	4.90	Q(100 cfs) = 34.0 cfs is provided at this depth	
1.10	1.10	1.10	1.10	1.10	1.93	3.44	5.37		
1.20	1.20	1.20	1.20	1.20	2.10	3.74	5.84		
1.30	1.30	1.30	1.30	1.30	2.27	4.04	6.31		
1.40	1.40	1.40	1.40	1.40	2.44	4.34	6.78		
1.50	1.50	1.50	1.50	1.50	2.61	4.64	7.25		
1.60	1.60	1.60	1.60	1.60	2.78	4.94	7.72		
1.70	1.70	1.70	1.70	1.70	2.95	5.24	8.19		
1.80	1.80	1.80	1.80	1.80	3.12	5.54	8.66		
1.90	1.90	1.90	1.90	1.90	3.29	5.84	9.13		
2.00	2.00	2.00	2.00	2.00	3.46	6.14	9.60		
2.10	2.10	2.10	2.10	2.10	3.63	6.44	10.07		
2.20	2.20	2.20	2.20	2.20	3.80	6.74	10.54		
2.30	2.30	2.30	2.30	2.30	3.97	7.04	11.01		
2.40	2.40	2.40	2.40	2.40	4.14	7.34	11.48		
2.50	2.50	2.50	2.50	2.50	4.31	7.64	11.95		
2.60	2.60	2.60	2.60	2.60	4.48	7.94	12.42		
2.70	2.70	2.70	2.70	2.70	4.65	8.24	12.89		
2.80	2.80	2.80	2.80	2.80	4.82	8.54	13.36		
2.90	2.90	2.90	2.90	2.90	4.99	8.84	13.83		
3.00	3.00	3.00	3.00	3.00	5.16	9.14	14.30		
3.10	3.10	3.10	3.10	3.10	5.33	9.44	14.77		
3.20	3.20	3.20	3.20	3.20	5.50	9.74	15.24		
3.30	3.30	3.30	3.30	3.30	5.67	10.04	15.71		
3.40	3.40	3.40	3.40	3.40	5.84	10.34	16.18		
3.50	3.50	3.50	3.50	3.50	6.01	10.64	16.65		
3.60	3.60	3.60	3.60	3.60	6.18	10.94	17.12		
3.70	3.70	3.70	3.70	3.70	6.35	11.24	17.59		
3.80	3.80	3.80	3.80	3.80	6.52	11.54	18.06		
3.90	3.90	3.90	3.90	3.90	6.69	11.84	18.53		
4.00	4.00	4.00	4.00	4.00	6.86	12.14	19.00		
4.10	4.10	4.10	4.10	4.10	7.03	12.44	19.47		
4.20	4.20	4.20	4.20	4.20	7.20	12.74	19.94		
4.30	4.30	4.30	4.30	4.30	7.37	13.04	20.41		
4.40	4.40	4.40	4.40	4.40	7.54	13.34	20.88		
4.50	4.50	4.50	4.50	4.50	7.71	13.64	21.35		
4.60	4.60	4.60	4.60	4.60	7.88	13.94	21.82		
4.70	4.70	4.70	4.70	4.70	8.05	14.24	22.29		
4.80	4.80	4.80	4.80	4.80	8.22	14.54	22.76		
4.90	4.90	4.90	4.90	4.90	8.39	14.84	23.23		
5.00	5.00	5.00	5.00	5.00	8.56	15.14	23.70		
5.10	5.10	5.10	5.10	5.10	8.73	15.44	24.17		
5.20	5.20	5.20	5.20	5.20	8.90	15.74	24.64		
5.30	5.30	5.30	5.30	5.30	9.07	16.04	25.11		
5.40	5.40	5.40	5.40	5.40	9.24	16.34	25.58		
5.50	5.50	5.50	5.50	5.50	9.41	16.64	26.05		
5.60	5.60	5.60	5.60	5.60	9.58	16.94	26.52		
5.70	5.70	5.70	5.70	5.70	9.75	17.24	26.99		
5.80	5.80	5.80	5.80	5.80	9.92	17.54	27.46		
5.90	5.90	5.90	5.90	5.90	10.09	17.84	27.93		
6.00	6.00	6.00	6.00	6.00	10.26	18.14	28.40		
6.10	6.10	6.10	6.10	6.10	10.43	18.44	28.87		
6.20	6.20	6.20	6.20	6.20	10.60	18.74	29.34		
6.30	6.30	6.30	6.30	6.30	10.77	19.04	29.81		
6.40	6.40	6.40	6.40	6.40	10.94	19.34	30.28		
6.50	6.50	6.50	6.50	6.50	11.11	19.64	30.75		
6.60	6.60	6.60	6.60	6.60	11.28	19.94	31.22		
6.70	6.70	6.70	6.70	6.70	11.45	20.24	31.69		
6.80	6.80	6.80	6.80	6.80	11.62	20.54	32.16		
6.90	6.90	6.90	6.90	6.90	11.79	20.84	32.63		
7.00	7.00	7.00	7.00	7.00	11.96	21.14	33.10		
7.10	7.10	7.10	7.10	7.10	12.13	21.44	33.57		
7.20	7.20	7.20	7.20	7.20	12.30	21.74	34.04		
7.30	7.30	7.30	7.30	7.30	12.47	22.04	34.51		
7.40	7.40	7.40	7.40	7.40	12.64	22.34	34.98		
7.50	7.50	7.50	7.50	7.50	12.81	22.64	35.45		
7.60	7.60	7.60	7.60	7.60	12.98	22.94	35.92		
7.70	7.70	7.70	7.70	7.70	13.15	23.24	36.39		
7.80	7.80	7.80	7.80	7.80	13.32	23.54	36.86		
7.90	7.90	7.90	7.90	7.90	13.49	23.84	37.33		
8.00	8.00	8.00	8.00	8.00	13.66	24.14	37.80		
8.10	8.10	8.10	8.10	8.10	13.83	24.44	38.27		
8.20	8.20	8.20	8.20	8.20	14.00	24.74	38.74		
8.30	8.30	8.30	8.30	8.30	14.17	25.04	39.21		
8.40	8.40	8.40	8.40	8.40	14.34	25.34	39.68		
8.50	8.50	8.50	8.50	8.50	14.51	25.64	40.15		
8.60	8.60	8.60	8.60	8.60	14.68	25.94	40.62		
8.70	8.70	8.70	8.70	8.70	14.85	26.24	41.09		
8.80	8.80	8.80	8.80	8.80	15.02	26.54	41.56		
8.90	8.90	8.90	8.90	8.90	15.19	26.84	42.03		
9.00	9.00	9.00	9.00	9.00	15.36	27.14	42.50		
9.10	9.10	9.10	9.10	9.10	15.53	27.44	42.97		
9.20	9.20	9.20	9.20	9.20	15.70	27.74	43.44		
9.30	9.30	9.30	9.30	9.30	15.87	28.04	43.91		
9.40	9.40	9.40	9.40	9.40	16.04	28.34	44.38		
9.50	9.50	9.50	9.50	9.50	16.21	28.64	44.85		
9.60	9.60	9.60	9.60	9.60	16.38	28.94	45.32		
9.70	9.70	9.70	9.70	9.70	16.55	29.24	45.79		
9.80	9.80	9.80	9.80	9.80	16.72	29.54	46.26		
9.90	9.90	9.90	9.90	9.90	16.89	29.84	46.73		
10.00	10.00	10.00	10.00	10.00	17.06	30.14	47.20		
10.10	10.10	10.10	10.10	10.10	17.23	30.44	47.67		
10.20	10.20	10.20	10.20	10.20	17.40	30.74	48.14		
10.30	10.30	10.30	10.30	10.30	17.57	31.04	48.61		
10.40	10.40	10.40	10.40	10.40	17.74	31.34	49.08		
10.50	10.50	10.50	10.50	10.50	17.91	31.64	49.55		
10.60	10.60	10.60	10.60	10.60	18.08	31.94	50.02		
10.70	10.70	10.70	10.70	10.70	18.25	32.24	50.49		
10.80	10.80	10.80	10.80	10.80	18.42	32.54	50.96		
10.90	10.90	10.90	10.90	10.90	18.59	32.84	51.43		
11.00	11.00	11.00	11.00	11.00	18.76	33.14	51.90		
11.10	11.10	11.10	11.10	11.10	18.93	33.44	52.37		
11.20	11.20	11.20	11.20	11.20	19.10	33.74	52.84		
11.30	11.30	11.30	11.30	11.30	19.27	34.04	53.31		
11.40	11.40	11.40	11.40	11.40	19.44	34.34	53.78		
11.50	11.50	11.50	11.50	11.50	19.61	34.64	54.25		
11.60	11.60	11.60	11.60	11.60	19.78	34.94	54.72		
11.70	11.70	11.70	11.70	11.70	19.95	35.24	55.19		
11.80	11.80	11.80	11.80	11.80	20.12	35.54	55.66		
11.90	11.90	11.90	11.90	11.90	20.29	35.84	56.13		
12.00	12.00	12.00	12.00	12.00	20.46	36.14	56.60		
12.10	12.10	12.10	12.10	12.10	20.63	36.44	57.07		
12.20	12.20	12.20	12.20	12.20	20.80	36.74	57.54		
12.30	12.30	12.30	12.30	12.30	20.97	37.04	58.01		
12.40	12.40	12.40	12.40	12.40	21.14	37.34	58.48		
12.50	12.50	12.50	12.50	12.50	21.31	37.64	58.95		
12.60	12.60	12.60	12.60	12.60	21.48	37.94	59.42		
12.70	12.70	12.70	12.70	12.70	21.65	38.24	59.89		
12.80	12.80	12.80	12.80	12.80	21.82	38.54	60.36		
12.90	12.90	12.90	12.90	12.90	21.99	38.84	60.83		
13.00	13.00	13.00	13.00	13.00	22.16	39.14	61.30		
13.10	13.10	13.10	13.10	13.10	22.33	39.44	61.77		
13.20	13.20	13.20	13.20	13.20	22.50	39.74	62.24		
13.30	13.30	13.30	13.30	13.30	22.67	40.04	62.71		
13.40	13.40	13.40	13.40	13.40	22.84	40.34	63.18		
13.50	13.50	13.50	13.50	13.50	23.01	40.64	63.65		
13.60	13.60	13.60	13.60	13.60	23.18	40.94	64.12		
13.70	13.70	13.70	13.70	13.70	23.35	41.24	64.59		
13.80	13.80	13.80	13.80	13.80	23.52	41.54	65.06		
13.90	13.90	13.90	13.90	13.90	23.69	41.84	65.53		
14.00	14.00	14.00	14.00	14.00	23.86	42.14	66.00		
14.10	14.10	14.10	14.10	14.10	24.03	42.44	66.47		
14.20	14.20	14.20	14.20	14.20	24.20	42.74	66.94		
14.30	14.30	14.30	14.30	14.30	24.37	43.04	67.41		
14.40	14.40	14.40	14.40	14.40	24.54	43.34	67.88		
1									

*Flow contributed by Basins A-I, C, D, E, & F

Bohannon ▲ Huston

 Century One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109

Saint Joseph on the Rio Grande

PROJECT NO: 99520A

DRAWN BY: BS

CHECKED BY: KGP

DATE: 04/30/99

REVISIONS:



BASIN
MAP
(PHASE I)

SHEET: 2

OF: 3

ENVIRONMENTAL PLANNING COMMISSION SUBMITTAL NOT FOR CONSTRUCTION, 1"=50'-0" 50' 0 50' 100' 150'

OF: 3



EXISTING CONDITIONS
 THE MAJORITY OF THE EXISTING 10 ACRE SITE (~60%) IS DEVELOPED AS PART OF THE EXISTING CHURCH. THE REMAINING PORTION OF THE EXISTING SITE IS UNDEVELOPED AND PREDOMINATELY SILTY SANDS, MODERATELY VEGETATED WITH VARIOUS GRASSES AND SHRUBS. THE MAJORITY OF THE DEVELOPED PORTION OF THE SITE DRAINS INTO A SINGLE SUMP INLET LOCATED ON THE EASTERN PROPERTY LINE NEAR THE ST. JOSEPH'S ENTRANCE. THIS EXISTING STORM DRAIN CONVEYS FLOWS TO THE EXISTING TEMPORARY RETENTION POND AT THE NE CORNER OF THE SITE. A SMALL PORTION (12%) OF THE SITE DEDICATED TO PARKING NORTH OF THE EXISTING CHURCH DRAINS EAST INTO A SWALE CONVEYING FLOWS INTO THE EXISTING POND. ANOTHER SMALL PORTION (10%) OF THE SITE SHEET FLOWS INTO A SMALL RETENTION POND ADJACENT TO ST. JOSEPH'S DRIVE. IT IS EXPECTED THAT ONLY SMALLER STORMS ARE CAPTURED AND THAT LARGER STORMS RESULT IN DISCHARGE TO ST. JOSEPH'S.

THIS SITE FALLS UNDER THE APPROVED MASTER DRAINAGE PLAN FOR "OXBOW TOWN CENTER" (OCT 2, 2007). IN THE OXBOW DMP, THIS SITE WILL BE ALLOWED TO DISCHARGE APPROXIMATELY 9.5 CFS (100YR-6HR) THROUGH THE FUTURE STORM DRAIN SYSTEM.

PROPOSED CONDITIONS
 THE PROPOSED SITE IMPROVEMENTS WILL INCLUDE THE CONSTRUCTION OF VARIOUS ADDITIONS TO THE EXISTING CHURCH WITH ADDITIONAL PARKING. THERE WILL ALSO BE AN ADDITIONAL BUILDING SITES INTENDED FOR A FUTURE PHASE AS OUTLINED IN THE SITE DEVELOPMENT PLAN.

RUNOFF FROM THE PROPOSED PARKING EXPANSION WILL BE CONVEYED TO THE PROPOSED TEMPORARY RETENTION POND VIA SHEET FLOW, SWALES, AND STORM DRAIN AT THE END OF THE NORTHERMOST ACCESS DRIVE. RUNOFF FROM THE PROPOSED ADDITIONS WILL DISCHARGE TO THE EAST AND ULTIMATELY INTO THE RETENTION POND. THE FUTURE BUILDING SITE WILL DISCHARGE TO THE EAST AND INTO THE RETENTION POND. THE TEMPORARY RETENTION POND IN THE NE CORNER OF THE SITE WILL BE CONVERTED INTO A DETENTION POND UPON THE COMPLETION OF THE STORM DRAIN OUTLINE IN THE OXBOW TOWN CENTER DMP. AT THAT TIME, THE POND WILL BEGIN ACCEPTING RUNOFF FROM OXBOW PROPERTIES.

THE SMALL BASIN ADJACENT TO ST. JOSEPH'S DRIVE WILL CONTINUE TO DISCHARGE INTO THE EXISTING RETENTION POND ON SITE.

HYDROLOGIC DATA - EXISTING

BASINS	AREA (acres)	LAND TREATMENT PERCENTAGES BY TYPE				YIELD (cfs/ac)	Q ₁₀ (cfs)	Q ₁₀₀ (cfs)	V ₁₀₀₋₂₄ (cfs)
		A	B	C	D				
X1	4.07	0	10	0	90	3.74	9.85	15.22	0.82
X2	4.77	0	80	10	10	1.87	3.60	8.77	0.30
X3	0.94	0	80	10	10	2.02	0.83	1.90	0.07

*PRECIPITATION ZONE 1 WAS USED IN THE HYDROLOGIC ANALYSIS

HYDRAULIC SUMMARY

AP	DESCRIPTION	SLOPE (%)	Q ₁₀₀ (cfs)
AP-1	INLET	-	7.11
AP-2	INLET	-	3.25
AP-3	SUMP	-	16.75

NOTE:

HYDROLOGIC DATA - DEVELOPED

BASINS	AREA (acres)	LAND TREATMENT PERCENTAGES BY TYPE				YIELD (cfs/ac)	Q ₁₀ (cfs)	Q ₁₀₀ (cfs)	V ₁₀₀₋₂₄ (cfs)
		A	B	C	D				
A1	1.96	0	15	0	85	3.63	4.55	7.11	0.29
A2	2.31	15	10	0	75	3.30	4.73	7.63	0.31
A3	4.48	0	10	0	90	3.74	10.84	16.75	0.68
A4	0.65	0	20	0	80	3.51	9.94	15.74	0.84
A5	0.37	25	0	65	10	2.28	0.40	0.84	0.03

*PRECIPITATION ZONE 1 WAS USED IN THE HYDROLOGIC ANALYSIS

100

$V_{10 \text{ DAYS}} = V_{360} + A_D * (P_{10 \text{ DAYS}} - P_{360}) / (12 \text{ IN/FT})$
 $V_{10 \text{ DAYS}} = 1.92 + 8.8 * (3.67 - 2.20) / (12 \text{ IN/FT}) = 2.99 \text{ ACFT}$

VICINITY MAP

FIRM MAP

LEGAL DESCRIPTION

TRACT X-1-A1
 UNIVERSITY OF ALBUQUERQUE URBAN CENTER
 PROJECTED SECTION 2, T10N, R2E

AS BUILT INFORMATION

CONTRACTOR	DATE
STANLEY	

BENCH MARKS

TEMPORARY BENCH MARK	DATE
X = 364323.052 (APPROXIMATE LOCATION)	
Y = 1502492.812 (APPROXIMATE LOCATION)	

SURVEY INFORMATION

NO.	DATE	BY

ENGINEER'S SEAL

35001C0114E
 35001C0327E

REVISIONS

NO.	DATE	REVISIONS	BY

DESIGNED BY: JRW
 DRAWN BY: JRW
 CHECKED BY: JRW

DATE: JAN 2008
 DATE: JAN 2008
 DATE: JAN 2008

GENERAL NOTES

1. SEE SHEET C2.3 FOR GRADING TYPICAL SECTIONS

LEGEND

- PROP FLOW ARROW
- EXIST FLOW ARROW
- SWALE
- HYDRAULIC ANALYSIS POINT
- PROPOSED BASIN LINE AND DESIGNATION
- FLOWLINE ELEVATION
- TOP OF WALK ELEVATION
- EXIST ASPHALT ELEVATION
- FINISHED GRADE ELEVATION
- RIP RAP
- RETAINING WALL
- RETAINING WALL POINT
- GRADE BREAK
- STORM DRAIN INLET
- CMP RISER

LEGEND

- AP-1
- A1
- 33.65
- 33.65 TW
- 33.65 EA
- 33.65 FG
- 1-1

LEGEND

- 1-1
- 1-1

LEGEND

- 1-1
- 1-1

GND, LLC

CONSULTING ENGINEERS

5643 Paradise Blvd. NW
 Albuquerque, NM 87114
 Phone: (505) 899-6182
 Fax: (505) 899-6184

CITY OF ALBUQUERQUE
 MUNICIPAL DEVELOPMENT DEPARTMENT
 ENGINEERING DIVISION

CHURCH OF ST. JOSEPH ON THE RIO GRANDE
 CONCEPTUAL
 GRADING AND DRAINAGE PLAN

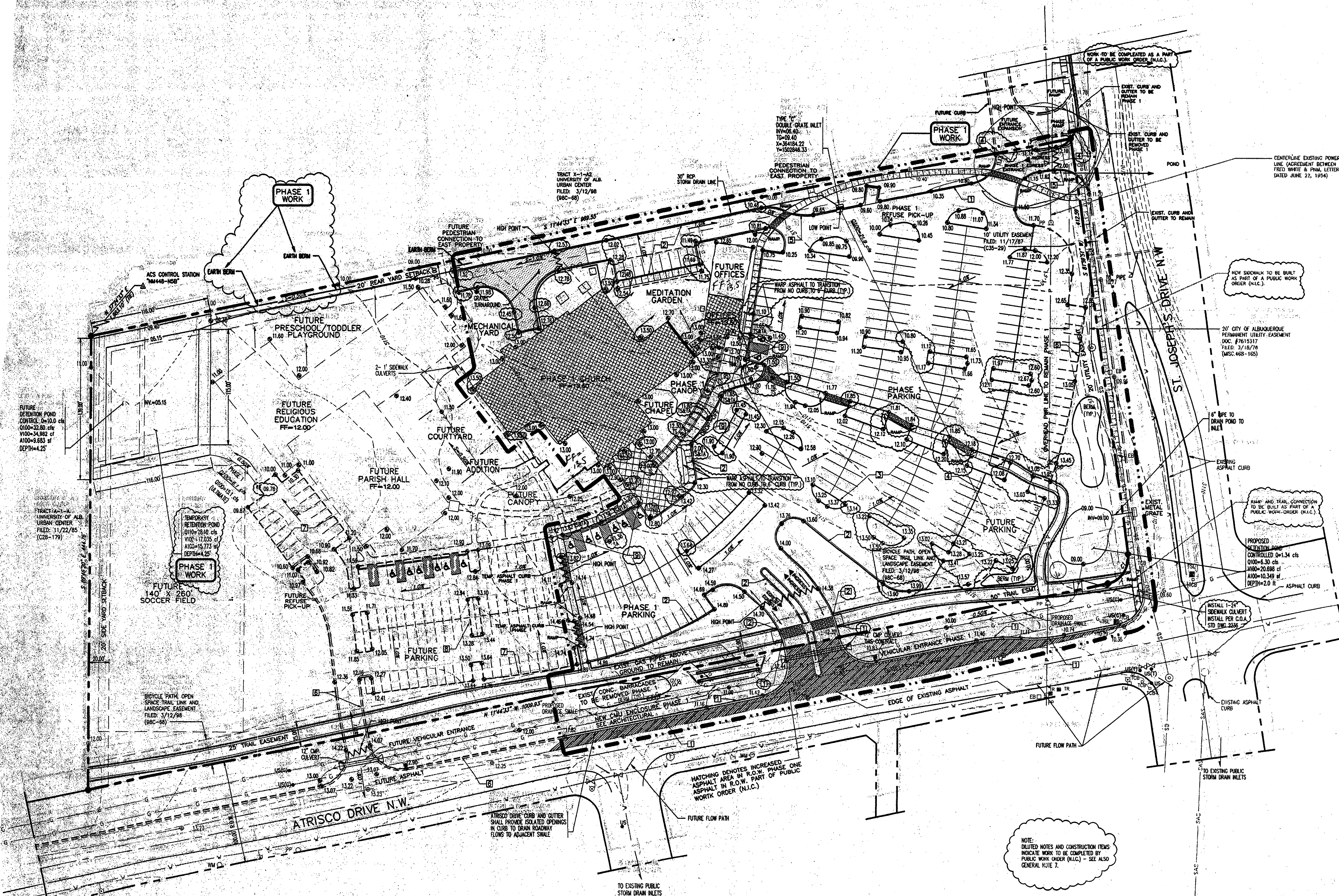
MONTH/DAY/YEAR USER DEPARTMENT

CITY PROJECT No. ZONE MAP No. SHEET
 G-11-Z C2.1



LATEST DESIGN UPDATE	MONTH/DAY/YEAR	USER DEPARTMENT	
CITY PROJECT No.		ZONE MAP No. G-11-Z	SHEET C2.3

[illegible]



PLAN OF RECORD

Albuquerque
Building & Safety
JUL 08 2008
I.B.C.
Plan Check Section



ROUGH GRADING	($\pm 0.5'$):
APPROVED FOR ROUGH GRADING	DATE



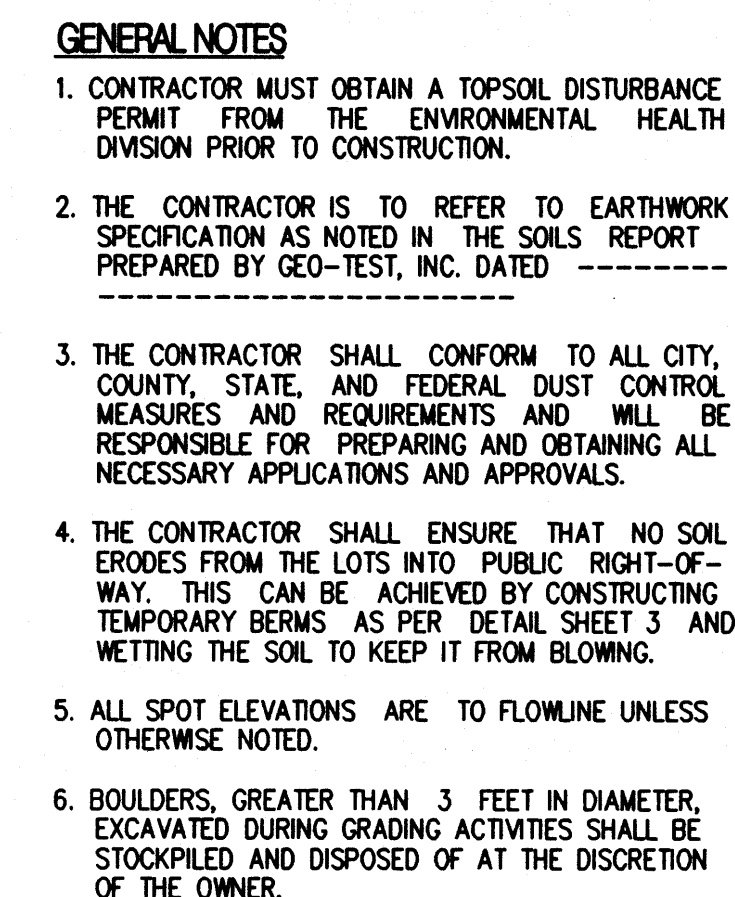
**FINAL
GRADING & DRAINAGE
PLAN**

SHEET:

C.1.1

OF:

0\CDP\GENERAL\99520G01.DWG



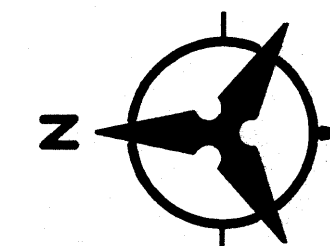
- 1 STANDARD CURB AND GUTTER
AS PER COA STD DWG 2415
- 2 MEDIAN CURB AND GUTTER
AS PER COA STD DWG 2415
- 3 6" PINNED CURB AND GUTTER
(TYPE ON ISLANDS)
AS PER COA STD DWG 2415
- 4 TEMPORARY ASPHALT CURB
(PHASE 1)
- 5 TRANSITION FROM STANDARD CURB
AND GUTTER TO 6" MEDIAN CURB
AND GUTTER
- 6 FUTURE STANDARD CURB AND GUTTER
AS PER COA STD DWG 2415
- 7 MEDIAN CURB AND GUTTER
AS PER COA STD DWG 2415
- 8 8" PINNED CURB AND GUTTER
(TYPE ON ISLANDS)
AS PER COA STD DWG 2415



A BERM WITH THE DIMENSIONS SHOWN SHALL BE MAINTAINED ALONG THE PROPERTY LINE DURING CONSTRUCTION, UNTIL COMPLETION OF THE PROJECT.

DESIGNED IN ACCORDANCE WITH MASTER
DRAINAGE PLAN FOR ALTURA WEST AND
ARCHDIOCESE OF SANTA FE PROPERTIES
NEAR ST. PIUS HIGH SCHOOL
OCTOBER 21, 1997

APPROVED FOR ROUGH GRADING DATE



1"=50'-0" 50' 0 50' 100' 150'

Bohannon Huston

Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109

ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

Saint Joseph on the Rio Grande

PROJECT NO: 99520A03
DRAWN BY: BS
CHECKED BY: KGP

DATE: 07/16/99

REVISIONS:

FINAL GRADING & DRAINAGE PLAN

SHEET:

C.1

OF: