

CONSTRUCTION PLANS
FOR
*RANCHO SERENO
(FORMERLY RANCHO ENCANTADO SUBDIVISION)
UNIT 1
ALBUQUERQUE, NEW MEXICO

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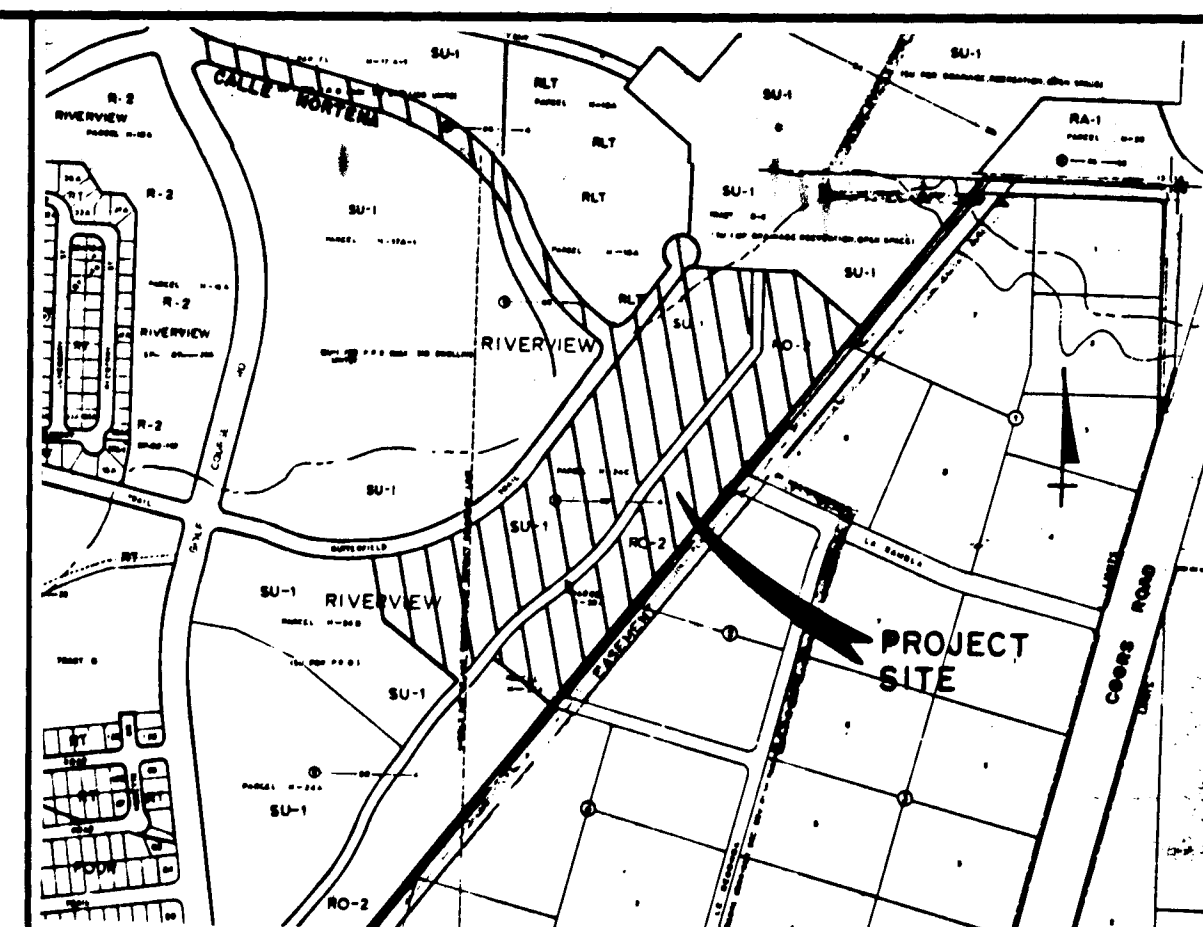
SURVEYOR'S CERTIFICATION

"I, Timothy Aldrich, a duly qualified Registered Professional Land Surveyor under the laws of the State of New Mexico, do hereby certify that the 'as-built' information shown on these drawings was obtained from field construction and 'as-built' surveys performed by me or under my supervision, that the 'as-built' information shown on these drawings was added by me or under my supervision, and that this 'as-built' information is true and correct to the best of my knowledge and belief." Aldrich Land Surveyor is not responsible for any of the design concepts, calculations, engineering, or intent of the record drawings.

Timothy Aldrich, P.S. No. 7719



CONSTRUCTION WITHIN TRACT H-30
(THE TRAIL RIGHT-OF-WAY) IS NOT
INCLUDED IN THIS WORK ORDER.



VICINITY MAP
NOT TO SCALE
D-12

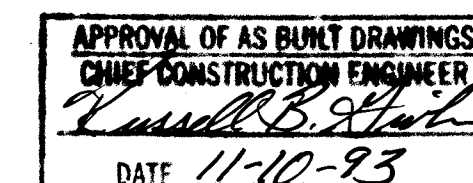
NOTICE TO CONTRACTORS

- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION.
- TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- THREE (3) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONST. COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
- ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED IN KIND BY CONTRACTOR TO LOCATION AND IN KIND AS EXISTING OR AS INDICATED BY THIS PLAN SET.
- CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE ENGINEER MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE ENGINEER AND SHALL NOTIFY THE ENGINEER AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE ENGINEER. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.

THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED

- ☒ ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- ☐ BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
- ☐ TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE CITY ENGINEER.
- ☒ SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
- ☒ IF CURB IS DEPRESSED FOR A DRIVEPAD, THE DRIVEPAD SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB AND GUTTER.
- ☒ ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.
- ☒ THE REQUESTOR OR DEVELOPER SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ALL CURB AND GUTTER OR SIDEWALK DAMAGED AFTER APPROVAL BY THE CITY ENGINEER OF WORK COMPLETED BY THE CONTRACTOR.

26 4569.900193



REV	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE

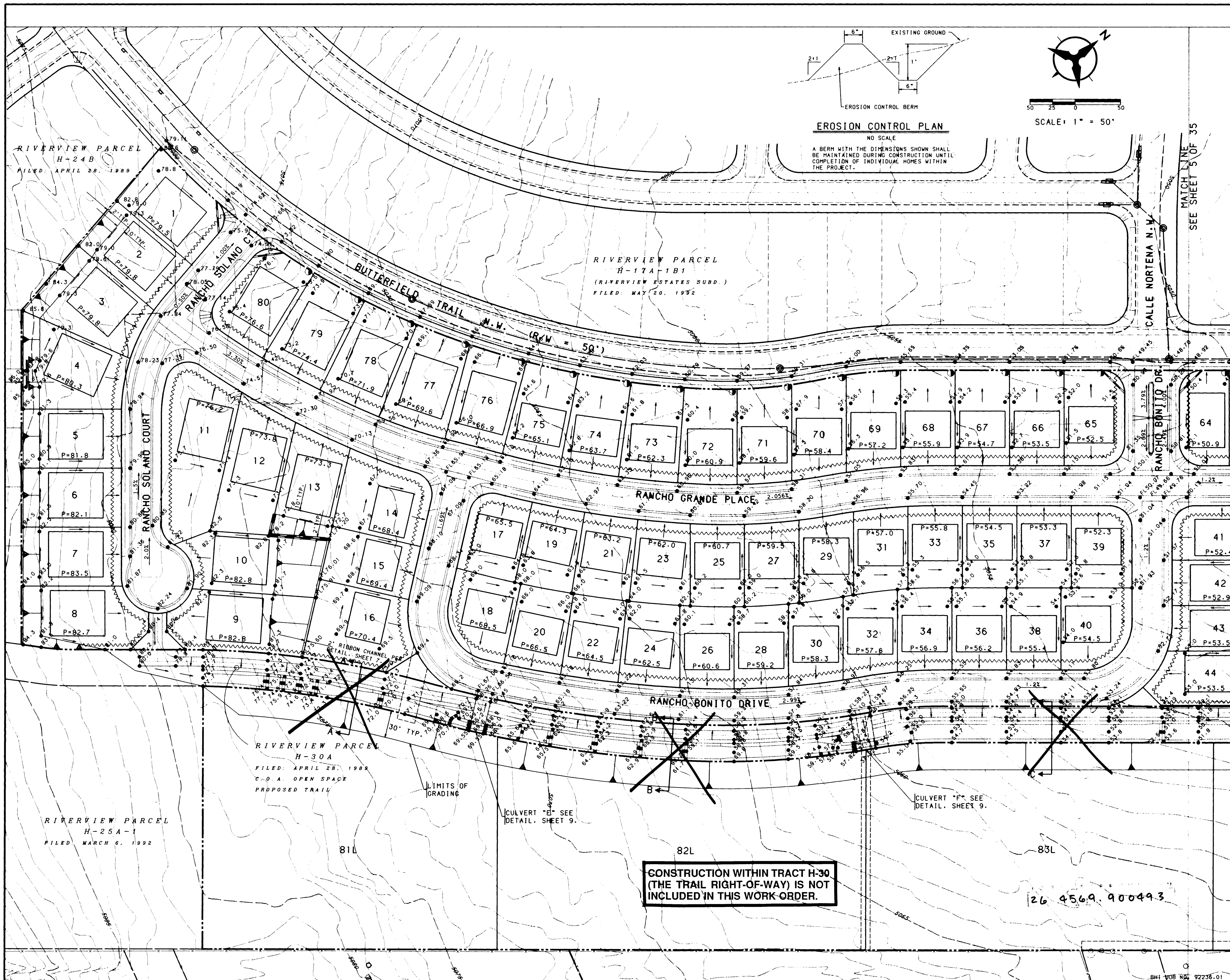
APPROVAL OF REVISIONS

	BOHANNAN HUSTON INC. ALBUQUERQUE, NEW MEXICO ENGINEERS PLANNERS PHOTOGRAPHERS	APPROVED FOR CONSTRUCTION
	PROJECT NUMBER 4569.90	SHEET 1 OF 35

AREAS	
LOT	ACREAGE
1	0.1794
2	0.1651
3	0.2084
4	0.2189
5	0.1642
6	0.1641
7	0.1642
8	0.2047
9	0.2224
10	0.2181
11	0.3011
12	0.2114
13	0.1718
14	0.1840
15	0.1378
16	0.2110
17	0.1322
18	0.1386
19	0.1275
20	0.1278
21	0.1275
22	0.1278
23	0.1308
24	0.1315
25	0.1242
26	0.1247
27	0.1250
28	0.1248
29	0.1261
30	0.1256
31	0.1254
32	0.1259
33	0.1247
34	0.1248
35	0.1246
36	0.1246
37	0.1246
38	0.1246
39	0.1361
40	0.1493
41	0.1416
42	0.1205
43	0.1218
44	0.1697
45	0.1524
46	0.1205
47	0.1205
48	0.1416
49	0.1728
50	0.1897
51	0.1828
52	0.1994
53	0.1208
54	0.1205
55	0.1184
56	0.1560
57	0.1406
58	0.1234
59	0.1205
60	0.1205
61	0.1205
62	0.1205
63	0.1205
64	0.1264
65	0.1554
66	0.1446
67	0.1446
68	0.1451
69	0.1473
70	0.1469
71	0.1451
72	0.1501
73	0.1495
74	0.1496
75	0.1496
76	0.1578
77	0.1748
78	0.1704
79	0.1714
80	0.1756
81	1.9999
82	0.0023
83	0.0023
84	0.0024
85	0.0068
TRACT A	0.0213
TRACT B	0.0278
TRACT C	0.0780
ROADS	3.8210

PLAT OF
RANCHO ENCANTADO SUBDIVISION
UNIT 1
ALBUQUERQUE, NEW MEXICO
DECEMBER, 1992

CURVE DATA									
NUMBER	ARC	RADIUS	DELTA	CHORD	CHORD BEARING	TANGENT	NUMBER	ARC	RADIUS
C1	78.52	440.00	101°13'30"	78.42	S33°26'55"W	39.37	C101	47.43	1010.00
C2	203.93	895.00	13°03'18"	203.49	S34°51'49"W	102.41	C102	39.14	1089.62
C3	286.90	1310.58	12°32'33"	286.32	S47°39'44"W	144.02	C103	65.66	1180.10
C4	270.98	1010.00	15°22'21"	270.17	S46°14'51"W	136.31	C104	72.48	1180.10
C5	36.75	250.00	8°25'23"	36.72	S42°46'22"W	18.41	C105	20.90	1270.58
C6	20.80	1256.25	0°56'55"	20.80	S46°30'35"W	26.40	C106	58.92	1089.62
C7	296.60	772.53	21°59'53"	294.78	N52°04'49"E	150.15	C107	63.82	1180.10
C8	372.50	940.58	22°41'27"	370.07	N52°44'10"E	188.72	C108	59.25	1180.10
C9	134.25	525.00	14°33'07"	133.89	N34°03'53"E	67.50	C109	63.80	1270.58
C10	97.94	475.00	11°48'52"	97.77	N32°38'45"E	49.15	C110	58.93	1089.62
C11	9.32	25.00	21°21'50"	9.27	N49°14'06"E	4.72	C111	63.82	1180.10
C12	47.07	45.00	59°55'41"	44.95	N29°57'10"E	25.94	C112	59.25	1180.10
C13	240.66	970.00	14°12'55"	240.34	N46°49'33"E	120.95	C113	63.80	1270.58
C14	295.65	1350.58	12°32'33"	295.06	N47°39'45"E	148.42	C114	57.86	1089.62
C15	213.04	935.00	13°03'18"	212.58	N34°51'49"E	106.98	C115	68.06	1180.10
C16	27.71	400.00	10°15'30"	27.29	N33°26'55"E	35.79	C116	58.37	1180.10
C17	47.71	772.53	3°32'18"	47.70	N77°57'54"E	23.86	C117	68.25	1270.58
C18	45.44	772.53	3°22'13"	45.44	N74°30'38"E	22.73	C118	4.97	1089.62
C19	36.56	25.00	83°47'11"	33.39	S30°55'56"W	22.43	C119	55.05	674.04
C20	219.83	1089.62	11°33'34"	219.46	S47°11'01"E	110.29	C120	59.53	764.52
C21	141.41	882.53	9°10'49"	141.25	N68°40'17"E	70.85	C121	12.01	1180.10
C22	65.49	1050.58	3°34'17"	65.47	N62°17'44"E	32.75	C122	48.03	764.52
C23	72.73	478.00	8°43'03"	72.66	N56°09'05"E	36.43	C123	52.51	855.00
C24	47.64	1274.96	2°08'28"	47.64	N52°51'47"E	23.82	C124	7.52	1270.58
C25	228.89	1045.62	12°32'33"	228.44	N47°39'45"E	114.91	C125	60.20	674.04
C26	143.56	630.04	13°03'18"	143.25	N34°51'49"E	72.09	C126	60.15	764.52
C27	125.71	704.96	10°13'30"	125.54	N33°26'40"E	63.02	C127	60.10	764.52
C28	39.27	25.00	90°00'00"	35.36	N06°26'49"W	25.00	C128	60.08	855.00
C29	39.27	25.00	90°00'00"	35.36	S06°26'49"W	25.00	C129	38.33	674.04
C30	39.27	25.00	90°00'00"	35.36	S06°26'49"W	25.00	C130	22.39	660.96
C31	39.27	25.00	90°00'00"	35.36	S06°26'49"W	25.00	C131	61.14	570.48
C32	127.57	142.00	51°28'24"	123.32	N64°17'23"E	68.45	C132	54.51	764.52
C33	170.00	400.00	24°30'10"	168.03	S31°46'40"W	0.00	C133	60.54	764.52
C34	27.71	400.00	10°15'30"	26.31	S31°13'20"W	15.47	C134	60.43	855.00
C35	88.04	98.00	51°28'24"	85.11	S54°17'23"E	47.24	C135	60.32	660.96
C36	117.86	660.96	10°13'01"	117.71	S33°26'40"W	59.09	C136	60.42	570.48
C37	153.58	674.04	13°03'18"	153.25	S34°51'49"W	77.12	C137	5.53	764.52
C38	219.83	1089.62	11°33'34"	219.46	S47°11'01"E	110.29	C138	55.04	570.48
C39	39.93	25.00	91°31'27"	35.82	S07°11'18"W	25.67	C139	38.88	480.00
C40	37.75	25.00	86°30'22"	34.26	N81°49'36"W	23.52	C140	0.45	324.71
C41	50.93	522.00	5°35'24"	50.91	S27°42'54"W	25.48	C141	35.16	660.96
C42	68.23	1094.58	3°34'17"	68.22	S62°17'44"W	34.13	C142	35.16	570.48
C43	145.73	926.53	9°00'43"	145.58	S68°35'14"W	73.02	C143	46.78	570.48
C44	47.53	25.00	108°55'37"	40.69	S18°37'47"W	35.00	C144	46.78	480.00
C45	157.42	660.96	10°13'01"	157.36	S31°46'40"W	7.18	C145	42.63	97.00
C46	27.72	25.00	63°31'51"	26.32	S83°10'35"E	15.48	C146	46.78	97.00
C47	169.99	400.00	24°30'10"	168.03	S06°48'06"W	0.00	C147	43.28	97.00
C48	143.41	400.00	10°15'30"	143.41	S31°13'20"W	74.85	C148	40.56	40.00
C49	39.27	25.00	89°18'17"	35.14	N54°36'48"W	24.70	C149	55.14	1045.62
C50	83.18	53.00	89°55'20"	74.90	S83°32'05"E	52.93	C150	52.80	40.00
C51	224.26	1270.58	10°06'46"	223.97	N46°26'51"E	112.42	C151	33.15	40.00
C52	85.81	85.00	13°03'18"	85.81	N34°51'49"E	97.83	C152	37.15	87.00
C53	85.81	85.00	13°03'18"	85.81	N34°51'49"E	97.83	C153	40.00	74.00
C54	83.26	53.00	90°00'29"	74.96	N06°26'34"W	53.01	C154	44.54	40.00
C55	39.27	25.00	90°00'13"	35.36	S83°33'17"W	25.00	C155	73.17	40.00
C56	39.27	25.00	90°00'00"	35.36	S06°26'49"W	25.00	C156	73.17	40.00
C57	124.43	97.00	73°29'48"	116.07	S14°41'55"E	72.43	C157	45.60	142.00
C58	259.92	1310.58	11°21'47"	259.49	S47°04'22"W	130.39	C158	33.90	142.00
C59	123.20	97.00	72°46'28"	115.09	N74°57'39"W	71.48	C159	48.06	142.00
C60	27.71	25.00	63°30'10"	26.31	S83°11'54"E	15.47	C160	11.17	475.00
C61	170.00	400.00	24°30'10"	168.03	S06°48'06"W	0.00	C161	43.17	704.96
C62	127.16	180.00	4°28'40"	124.54	S31°12'00"E	66.37	C162	60.27	475.00
C63	180.16	180.00	4°34'12"	14.35	S13°14'46"E	7.18	C163	60.34	704.96
C64	112.81	180.00	35°54'28"	110.97	S33°29'06"E	58.33	C164	34.43	525.00
C65	197.23	904.53	12°29'35"	196.84	N60°19'41"E	99.01	C165	26.51	475.00
C66	66.86	1072.58	8°43'03"	66.85	N62°17'44"E	33.44	C166	22.20	704.96
C67	76.07	500.00	8°43'03"	76.00	N56°09'05"E	38.11	C167	38.52	630.04
C68	46.82	1252.96	2°08'28"	46.82	N52°51'47"E	23.41	C168	60.24	525.00
C69	233.71	1067.62	12°32'33"	233.24	N47°39'45"E	117.32	C169	60.17	630.04
C70	148.57	652.04	13°03'18"	148.25	N34°51'49"E	74.61	C170	44.87	630.04
C71	16.86	1252.96	0°46'16"	16.86	N52°10'40"E	8.43	C171	21.08	1045.62
C72	29.96	1252.96	1°22'12"	29.96	N53°14'56"E	14.98	C172	19.05	940.58
C73	121.79	682.96	10°13'01"	121.62	N33°26'40"E	61.05	C173	39.58	525.00
C74	107.81	120.00	51°28'24"	104.22	N64°17'23"E	57.85	C174	72.40	882.53
C75	117.71	75.00	89°55'20"	105.99	S83°32'05"E	74.90	C175	65.32	1045.62
C76	228.15	1292.58	10°06'46"	227.85	N46°26'51"E	114.37	C176	58.76	940.58
C77	199.82	877.01	13°03'18"	199.39	N34°51'49"E	100.35	C177	65.32	1045.62
C78	81.73	588.00	10°13'30"	81.63	N33°26'55"E	40.98	C178	58.76	940.58
C79	117.82	75.00	90°00'29"	106.07	N06°26'34"W	75.01	C179	65.32	1045.62
C80	85.55	772.53	6°20'42"	85.51	N82°54'25"E	42.82	C180	65.05	940.58
C81	20.90	203.00	5°53'58"	20.89	S13°54'59"E	26.71	C181	11.85	1045.62
C82	59.50	203.00	16°47'32"	59.28	S25°15'23"E	29.96	C182	47.64	1274.96
C83	56.83	203.00	16°02'27"	56.65	S41°40'23"E	28.60	C183	5.51	478.00
C84	6.18	203.00	1°44'43"	6.18	S50°33'58"E	3.09	C184	62.30	940.58
C85	10.11	40.00	14°28'39"	10.08	S58°40'39"E	5.08	C185	9.85	1050.58
C86	42.62	40.00	61°02'42"	40.63	N83°33'40"E	23.58	C186	13.78	772.53
C87	40.21	40.00	28°57'18"	20.00	N38°33'40"E	10.33	C187	49.81	940.58
C88	129.51	1010.00	7°20'48"	129.42	S42°14'04"W	64.84	C188	67.22	478.00
C89	39.65	40.00	56°47'56"	38.05	N40°18'57"W	21.63	C189	55.64	1050.58
C90	57.40	40.00	82°13'34"	52.60	N73°49'43"W	34.91	C190	15.75	882.53
C91	53.40	926.53	3°18'09"	53.40	N71°26'33"E	26.71	C191	63.38	772.53
C92	67.73	926.53	4°11'17"	67.71	N67°41'48"E	33.88	C192	72.40	882.53
C93	24.60	926.53	1°31'17"	24.60	N64°50'31"E	12.30	C193	53.26	



GENERAL GRADING NOTES

- CONTRACTOR MUST OBTAIN A TOPSOIL DISTURBANCE PERMIT FROM THE ENVIRONMENTAL HEALTH DIVISION PRIOR TO CONSTRUCTION.
- THE CONTRACTOR IS TO REFER TO THE EARTHWORK SPECIFICATIONS NOTED IN THE SOILS REPORT SUPPLIED BY CENTEX HOMES.
- 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.
- THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE LOTS INTO PUBLIC RIGHT-OF-WAY. THIS CAN BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS AS PER DETAIL THIS SHEET AND WETTING THE SOIL TO KEEP IT FROM BLOWING.
- THE TOLERANCES FOR ROUGH GRADING SHALL CONFORM TO THE FOLLOWING:
TRAIL SUBGRADE ± 0.2'
CHANNEL SUBGRADE ± 0.2'
PAD SUBGRADE ± 0.2'
STREET SUBGRADE ± 0.2'
ALL OTHER AREAS ± 0.5'
- RETAINING WALLS TO BE CONSTRUCTED UNDER THESE WORK ORDER PLAN IMPROVEMENTS WITH FINAL GRADING, DRAINAGE, UTILITY AND STREET CONSTRUCTION. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS TO CENTEX HOMES FOR APPROVAL PRIOR TO CONSTRUCTION. SHOP DRAWINGS SHALL CONSIST OF RETAINING WALL PROFILES SHOWING GROUND ELEVATIONS ADJACENT TO WALL, TOP OF WALL, AND BOTTOM OF FOOTING.
- CONSTRUCTION WITHIN AMAFCA'S PIEDRAS MARACADAS DAM PROPERTY SHALL NOT COMMENCE UNTIL A LICENSE AGREEMENT FOR EACH OF THE SEPARATE IMPROVEMENTS IS APPROVED BY AMAFCA. A LICENSE AGREEMENT FOR TRAIL IMPROVEMENTS MUST BE APPROVED BY AMAFCA'S BOARD OF DIRECTORS.
- BACKYARD DRAIN TO BE PROVIDED AS DESIGNATED. PROPERTY OWNER TO MAINTAIN BACKYARD DRAIN. SEE BACKYARD DRAIN DETAIL, SHEET 8.

LEGEND

PROJECT BOUNDARY ———

EXISTING CONTOUR ———

EXISTING SPOT ELEVATION ○ 25.42

PROPOSED SPOT ELEVATION ● 25.42

DIRECTION OF FLOW ———>

PROPOSED EROSION CONTROL BERM ———

WATER BLOCK ———

PROPOSED RETAINING WALL ———

EXISTING STORM DRAIN LINE — SD ———

EXISTING STORM DRAIN MANHOLE ○

EXISTING STORM DRAIN INLET — SD ———

PROPOSED STORM DRAIN LINE — SD ———

PROPOSED STORM DRAIN MANHOLE ○

PROPOSED STORM DRAIN INLET — SD ———

BACKYARD DRAIN ———

AS BUILT INFORMATION

CONTRACTOR	DATE
DATE	DATE

BENCH MARKS

STATION MARK IS A STANDARD USGS BRASS TABLET, STAMPED "HUGHES, 1954", SET IN TOP OF A CONCRETE POST PROJECTING 0.3 FT. ABOVE THE GROUND. TO REACH THE STATION FROM THE INTERSECTION OF CENTRAL AVE. AND STATE RD. 448, GO NORTH ON STATE RD. 448, 6.1 MILES. THE STATION IS 450' WEST OF STATE RD. 448 IN A FENCED-IN PRAIRIE. ELEV. = 5049.93
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ENGINEER'S SEAL

REVISIONS

NO.	DATE	REMARKS
1	1-21-93	DESIGN
2	1-21-93	DESIGN
3	1-21-93	DESIGN

DESIGNED BY JPK
DRAWN BY SAR
CHECKED BY JPK

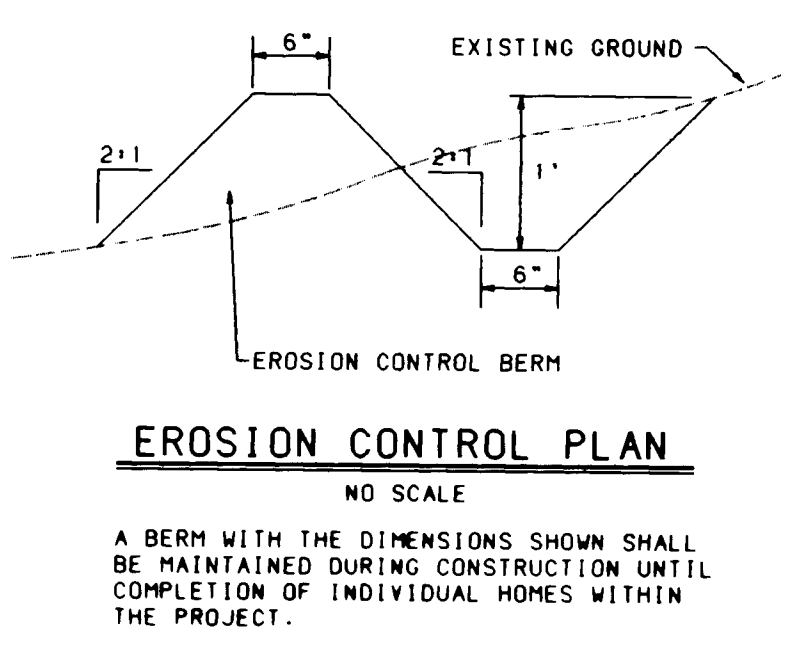
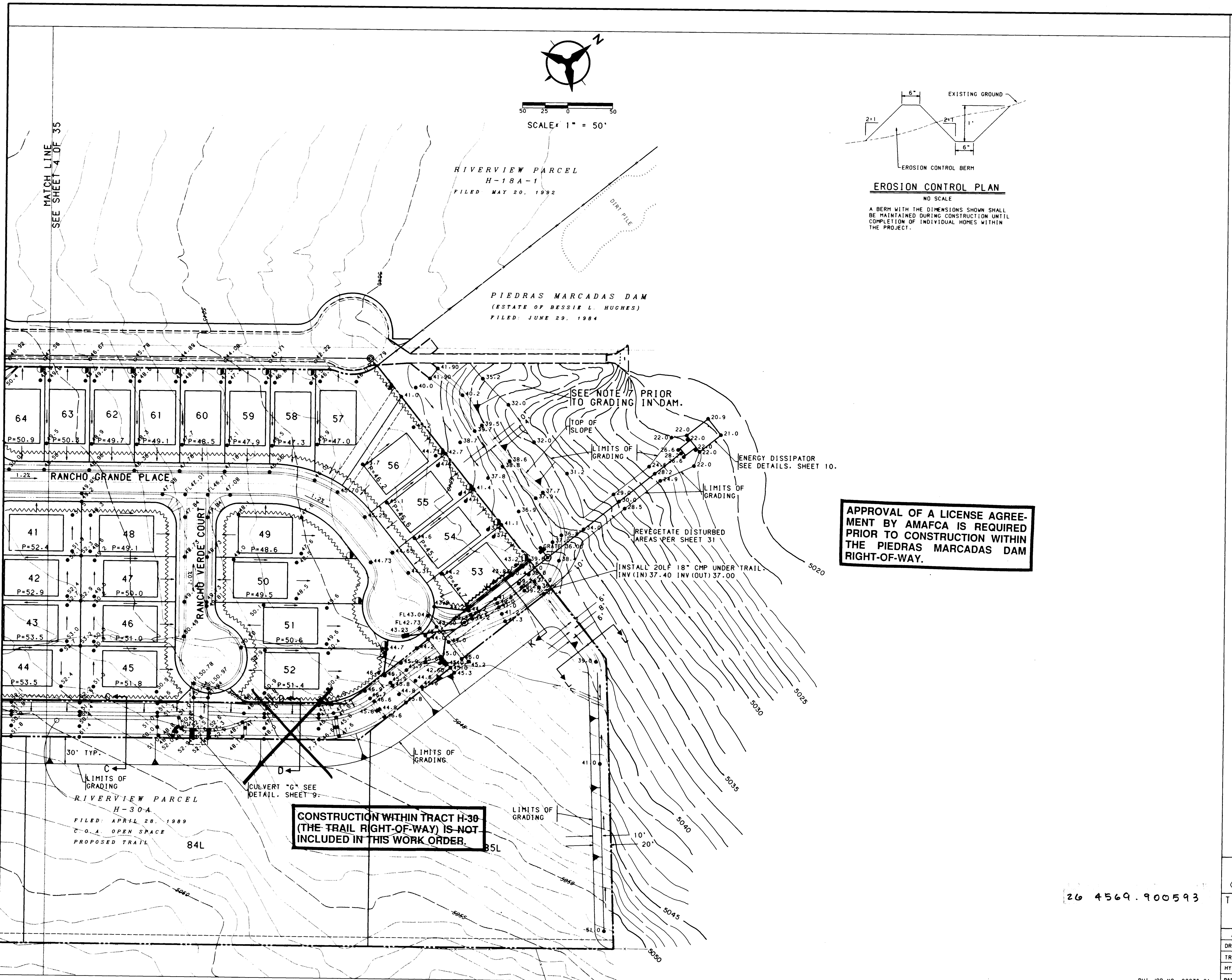
DATE 10/92
DATE 10/92
DATE 10/92

**CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP**

**TITLE: *RANCHO ENCANTADO SUBDIVISION
FINAL GRADING & DRAINAGE PLAN**

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	34 J. J. J.	2-23-93	WATER	NA RUK	1-21-93
TRANS. DEV.	MA 240	1-21-93	WASTE WATER	NA RUK	1-21-93
HYDROLOGY	MA 240	1-21-93	AMAFCA		
PARKS					

PROJECT NO. 4569.90 MAP NO. D-12 SHEET 4 OF 35



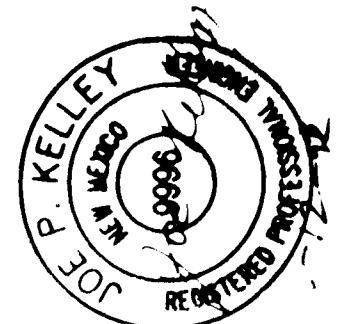
GENERAL GRADING NOTES

- CONTRACTOR MUST OBTAIN A TOPSOIL DISTURBANCE PERMIT FROM THE ENVIRONMENTAL HEALTH DIVISION PRIOR TO CONSTRUCTION.
- THE CONTRACTOR IS TO REFER TO THE EARTHWORK SPECIFICATIONS NOTED IN THE SOILS REPORT SUPPLIED BY CENTEX HOMES.
- 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.
- THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE LOTS INTO PUBLIC RIGHT-OF-WAY. THIS CAN BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS AS PER DETAIL THIS SHEET AND WETTING THE SOIL TO KEEP IT FROM BLOWING.
- THE TOLERANCES FOR ROUGH GRADING SHALL CONFORM TO THE FOLLOWING:
TRAIL SUBGRADE ±0.2'
CHANNEL SUBGRADE ±0.2'
PAD SUBGRADE ±0.2'
STREET SUBGRADE ±0.2'
ALL OTHER AREAS ±0.5'
- RETAINING WALLS TO BE CONSTRUCTED UNDER THESE WORK ORDER PLAN IMPROVEMENTS WITH FINAL GRADING, DRAINAGE, UTILITY AND STREET CONSTRUCTION. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS TO CENTEX HOMES FOR APPROVAL PRIOR TO CONSTRUCTION. SHOP DRAWINGS SHALL CONSIST OF RETAINING WALL PROFILES SHOWING GROUND ELEVATIONS ADJACENT TO WALL, TOP OF WALL, AND BOTTOM OF FOOTING.
- CONSTRUCTION WITHIN AMAFCA'S PIEDRAS MARCADAS DAM PROPERTY SHALL NOT COMMENCE UNTIL A LICENSE AGREEMENT FOR EACH OF THE SEPARATE IMPROVEMENTS IS APPROVED BY AMAFCA. A LICENSE AGREEMENT FOR TRAIL IMPROVEMENTS MUST BE APPROVED BY AMAFCA'S BOARD OF DIRECTORS.
- BACKYARD DRAIN TO BE PROVIDED AS DESIGNATED. PROPERTY OWNER TO MAINTAIN BACKYARD DRAIN. SEE BACKYARD DRAIN DETAIL, SHEET 8.

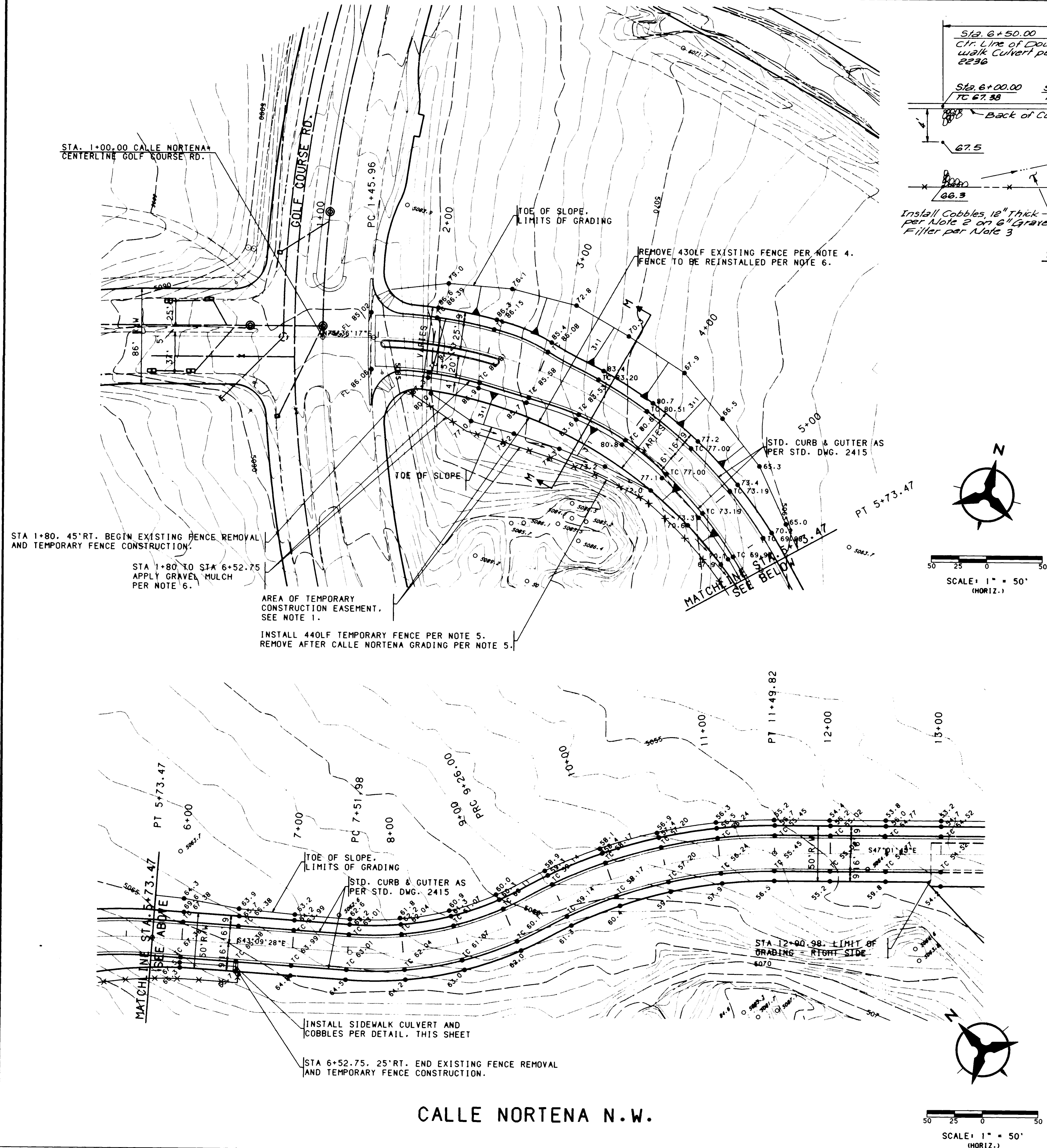
LEGEND

- PROJECT BOUNDARY
- EXISTING CONTOUR
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- DIRECTION OF FLOW
- PROPOSED EROSION CONTROL BERM
- WATER BLOCK
- PROPOSED RETAINING WALL
- EXISTING STORM DRAIN LINE
- EXISTING STORM DRAIN MANHOLE
- EXISTING STORM DRAIN INLET
- PROPOSED STORM DRAIN LINE
- PROPOSED STORM DRAIN MANHOLE
- PROPOSED STORM DRAIN INLET
- BACKYARD DRAIN

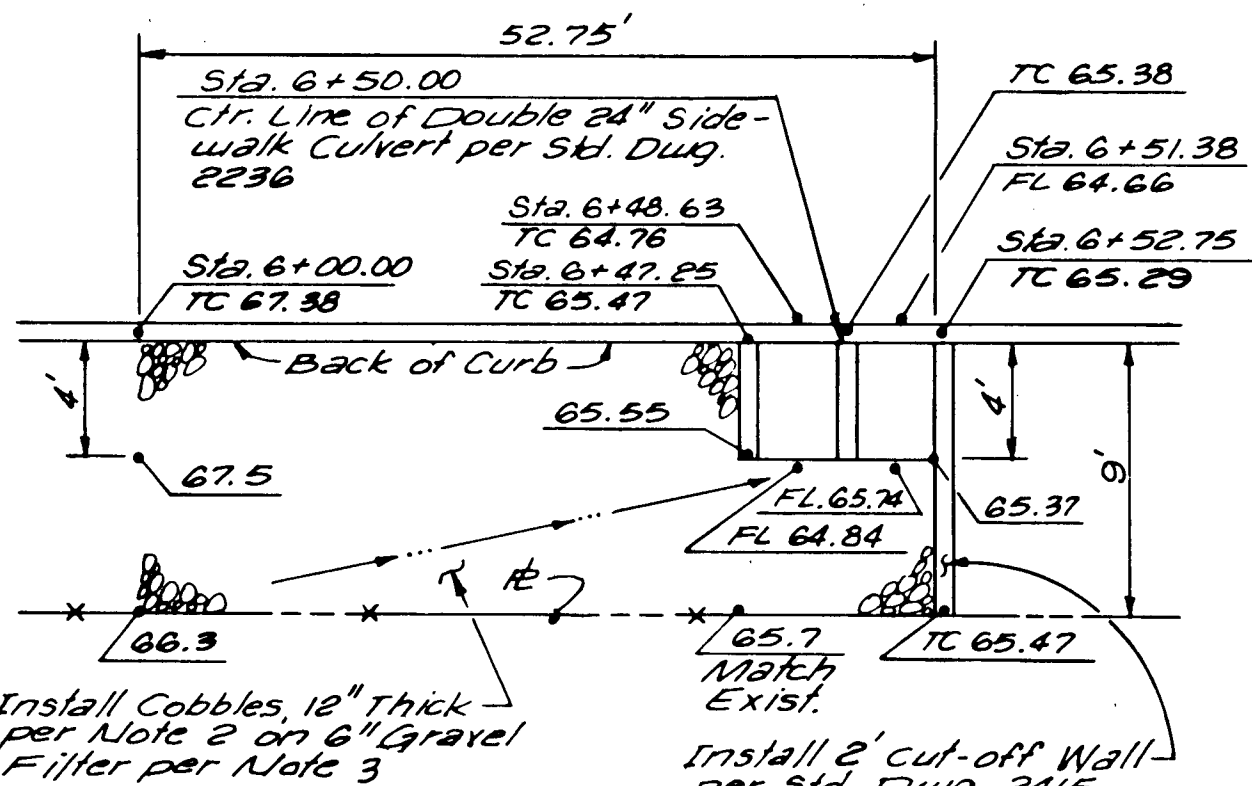
AS BUILT INFORMATION				BENCH MARKS				SURVEY INFORMATION			
CONTRACTOR	DATE	BY	DATE	STATION MARK	DATE	BY	DATE	NO.	DATE	BY	DATE
AS BUILT	12/5/93	AS BUILT	12/5/93	STATION MARK IS A STANDARD USCGS BRASS TABLET, STAMPED "HUGHES, 1954", SET IN TOP OF A CONCRETE POST PROJECTING 0.3 FT. ABOVE THE GROUND. TO REACH THE STATION FROM THE INTERSECTION OF CENTRAL AVE. AND STATE RD. 448, GO NORTH ON STATE RD. 448, 6.1 MILES. THE STATION IS 450' WEST OF STATE RD. 448 IN A FENCED-IN PRAIRIE. ELEV. = 5049.93							



CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP											
TITLE: *RANCHO ENCANTADO SUBDIVISION FINAL GRADING & DRAINAGE PLAN											
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE						
DRC CHAIRMAN	J. J. Kelley	2-23-93	WATER	N/A RWK	1-21-93						
TRANS. DEV.	N/A RWK	1-21-93	WASTE WATER	N/A RWK	1-21-93						
HYDROLOGY	N/A RWK	1-28-93	AMAFCA								
PROJECT NO. 4569.90 MAP NO. D-12 SHEET 5 OF 35											



CALLE NORTENA N.W.

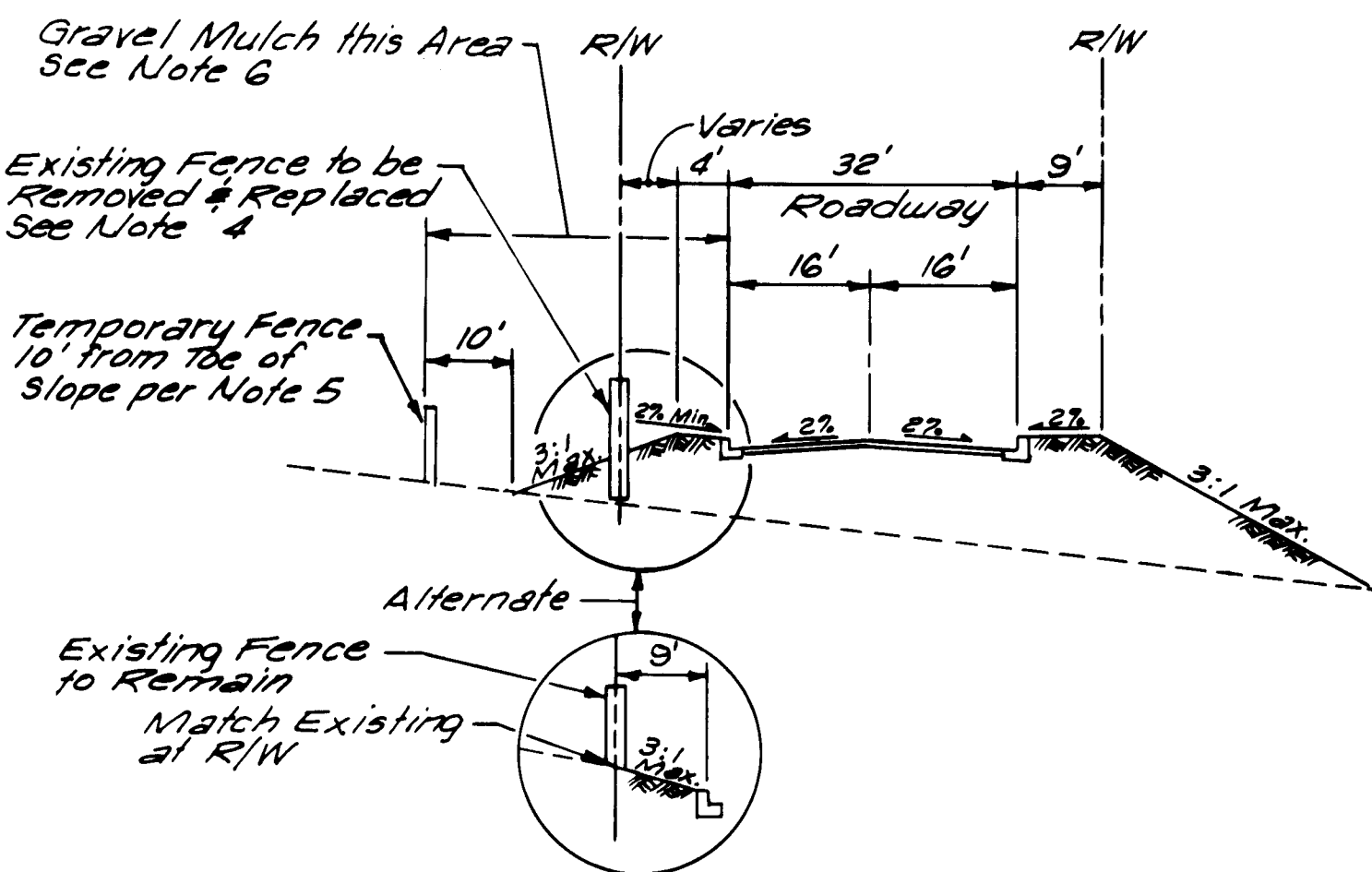


SIDEWALK CULVERT N.T.S.

SIDEWALK CULVERT NOTES

- COBBLE SUBGRADE SHALL BE SCARIFIED AND RECOMPACTED TO A DEPTH OF 6" AT MINIMUM 90% ASTM D-1557 DENSITY.
- COBBLES SHALL COMPLY WITH THE REQUIREMENTS OF SECTION 109 OF THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION, EXCEPT AS HEREIN DESCRIBED. GRADATION SHALL BE TYPE VI PER TABLE 109.
- COBBLES SHALL BE PLACED ON GRAVEL FILTER MATERIAL. GRAVEL FILTER MATERIAL SHALL BE SUPPLIED AND INSTALLED PER SECTION 603.10 OF THE STANDARD SPECIFICATIONS, AND THE GRADATION SHALL BE AS FOLLOWS:

SIEVE SIZE	%PASSING
3"	90-100
3/4"	20-90
#4	0-20
#200	0-3



SECTION M-M N.T.S.

CALLE NORTENA CONSTRUCTION

- A TEMPORARY CONSTRUCTION EASEMENT HAS BEEN GRANTED ON THE PROPERTY ADJACENT TO CALLE NORTENA ON THE SOUTHWEST. A PORTION OF THE EXISTING FENCE SHALL BE REMOVED, AND A TEMPORARY FENCE SHALL BE CONSTRUCTED. AFTER CALLE NORTENA HAS BEEN GRADED, THE TEMPORARY FENCE SHALL BE REMOVED AND A PERMANENT FENCE INSTALLED.
- NO CONSTRUCTION MATERIALS, EQUIPMENT, OR PERSONNEL MAY TRESPASS ON THE OPEN SPACE PROPERTY OUTSIDE OF THE CONSTRUCTION EASEMENT WITHOUT THE EXPRESS WRITTEN CONSENT OF THE CITY OF ALBUQUERQUE OPEN SPACE DIVISION. 2 WORKING DAYS PRIOR TO BEGINNING FENCE REMOVAL, THE CONTRACTOR SHALL NOTIFY CITY OF ALBUQUERQUE OPEN SPACE DIVISION (MATT SCHMAEDER, 873-6620).
- ALL FENCE CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, SECTION 410.
- REMOVAL AND REPLACEMENT OF THE EXISTING FENCE SHALL BE PERFORMED BY THE CITY OF ALBUQUERQUE OPEN SPACE DIVISION. THE PERMANENT FENCE SHALL BE INSTALLED AS SOON AS POSSIBLE AFTER THE GRAVEL MULCH.
- THE TEMPORARY FENCE SHALL CONSIST OF 6' CHAIN LINK FENCE FABRIC, 12.5 GAGE, STRETCHED ON 7.5' TEE POSTS DRIVEN INTO THE GROUND AT 10' INTERVALS. THE EXACT LOCATION OF THE TEMPORARY FENCE SHALL BE DETERMINED IN THE FIELD BY OPEN SPACE PERSONNEL. THE TEMPORARY FENCE SHALL BE REMOVED ONLY AFTER THE PERMANENT FENCE IS REINSTALLED.
- THE AREA BETWEEN THE TEMPORARY FENCE AND THE BACK OF CURB SHALL BE SEEDED WITH GRAVEL MULCH SEEDING. THE SEED SHALL CONFORM TO THE RECLAMATION SEEDING SPECIFIED ON SHEET 31. THE SEED SHALL BE APPLIED WITH GRAVEL MULCH. GRAVEL MULCH SHALL BE 1 1/2" TO 2" RIVER RUN GRAVEL OBTAINABLE BY LOCAL SOURCES. GRAVEL SHALL BE MIXED WITH 10% CLEAN NATIVE SOILS "NOT CONTAINING EXTRANEEOUS DEBRIS THAT ARE DETRIMENTAL TO PLANT GROWTH OR SEED GERMINATION," AND APPLIED IN A 2" MULCH LAYER.

GENERAL GRADING NOTES

- CONTRACTOR MUST OBTAIN A TOPSOIL DISTURBANCE PERMIT FROM THE ENVIRONMENTAL HEALTH DIVISION PRIOR TO CONSTRUCTION.
- THE CONTRACTOR IS TO REFER TO THE EARTHWORK SPECIFICATIONS NOTED IN THE SOILS REPORT SUPPLIED BY CENTEX HOMES.
- 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.
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TRAIL SUBGRADE ± 0.2'
CHANNEL SUBGRADE ± 0.2'
PAD SUBGRADE ± 0.2'
STREET SUBGRADE ± 0.2'
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- BACKYARD DRAIN TO BE PROVIDED AS DESIGNATED. PROPERTY OWNER TO MAINTAIN BACKYARD DRAIN. SEE BACKYARD DRAIN DETAIL, SHEET 8.

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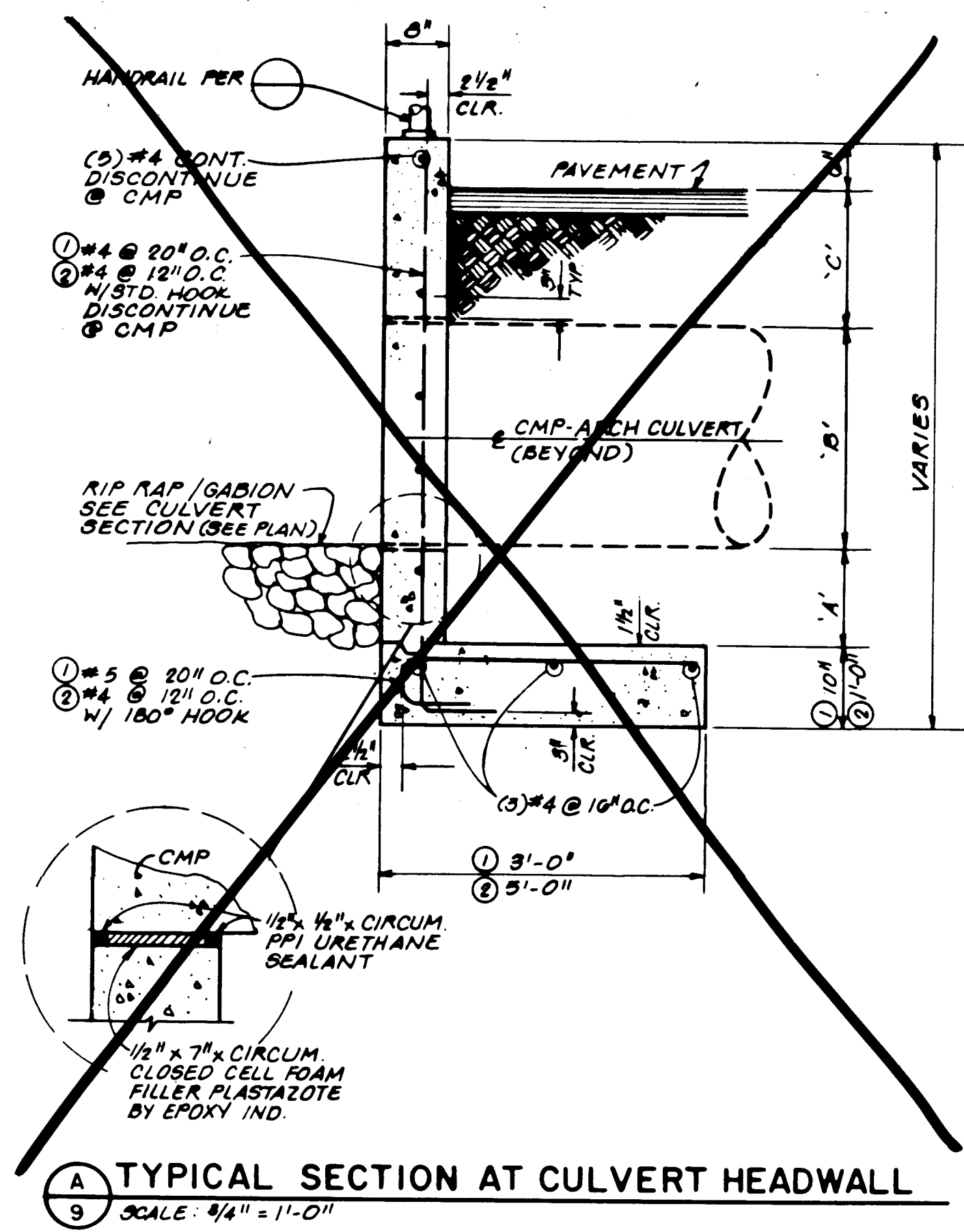
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP



TITLE: *RANCHO ENCANTADO SUBDIVISION
GRADING & DRAINAGE PLAN
CALLE NORTENA N.W. 1+00.00 to 12+90.98

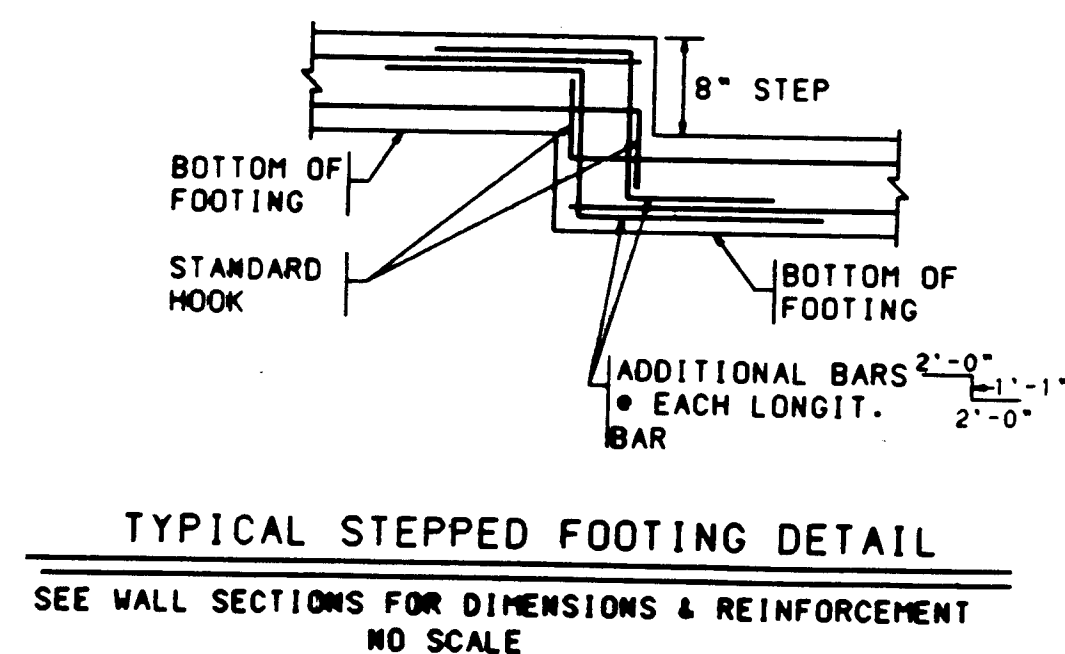
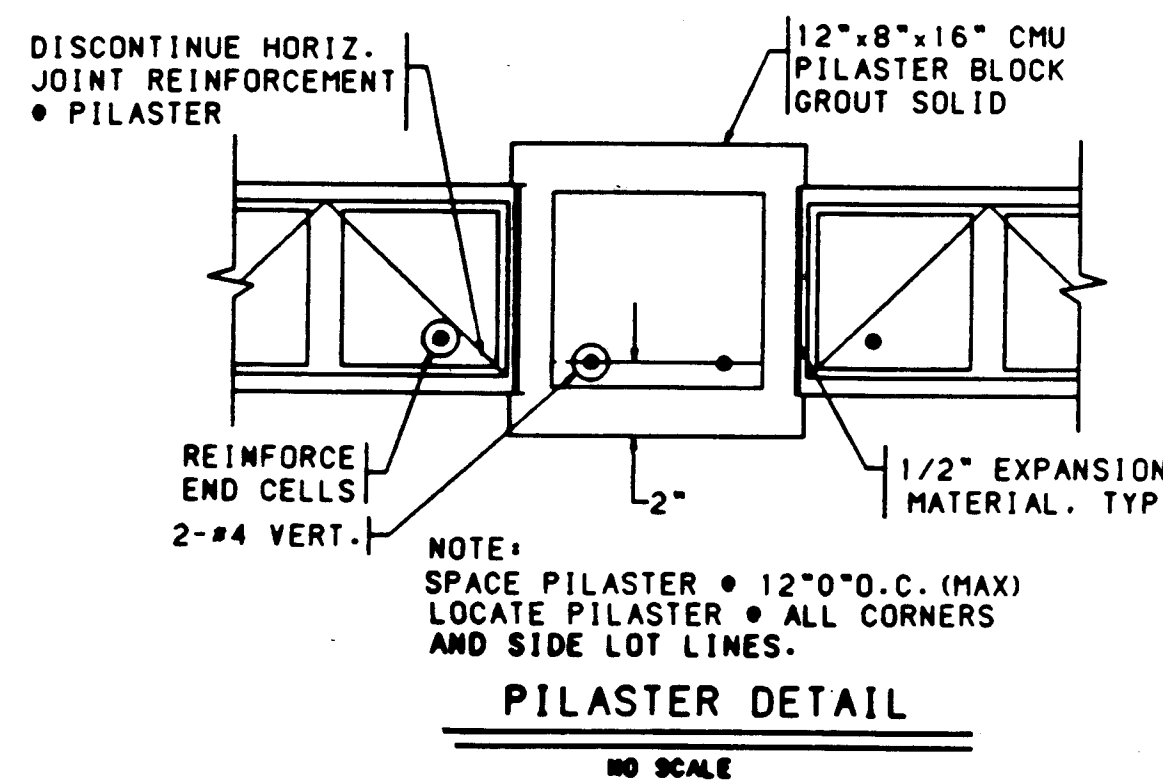
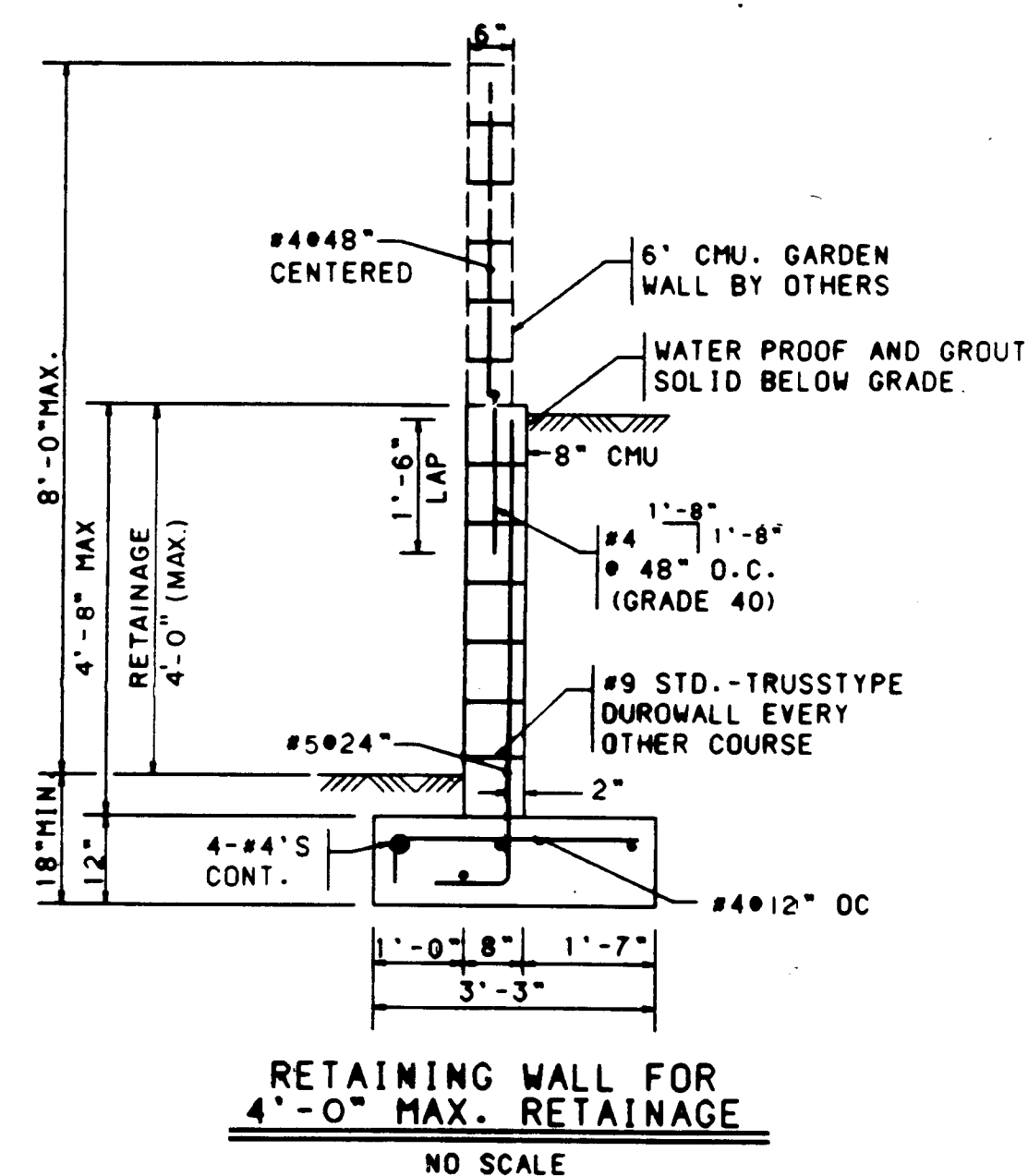
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	Substantive	2-23-93	WATER	N/A RWK	1-21-93
TRANS. DEV.	N/A RPD	1-21-93	WASTE WATER	N/A RWK	1-21-93
HYDROLOGY	Y. N/A	1-28-93			
OPEN SPACE					

PROJECT NO. 4569.90 MAP NO. D-12 SHEET 6 OF 35



DIMENSION TABLE				
CULVERT LOCATION	DIMENSION			REMARKS
	A'	B'	C'	SEE DET.
E (INLET)	1'-0"	2'-3"	1'-0"	USE ①
E (OUTLET)	1'-0"	2'-3"	1'-3"	USE ②
F (INLET)	1'-0"	2'-3"	1'-3"	USE ①
F (OUTLET)	1'-0"	2'-3"	1'-3"	USE ①
G (INLET)	1'-0"	2'-3"	3'-1"	USE ②
G (OUTLET)	1'-0"	2'-3"	3'-3"	USE ②
H	2'-0"	—	2'-5"	USE ①

CONSTRUCTION WITHIN TRACT H-30 (THE TRAIL RIGHT-OF-WAY) IS NOT INCLUDED IN THIS WORK ORDER.



Backyard drains are intended to contain nuisance flows, and to discharge storm flows. Each backyard drain shall be maintained by the respective lot owner.

Turn one block on its side at the downhill side of each perimeter lot which drains into the perimeter R/W

BACKYARD DRAIN
4.5 N.T.S.

GENERAL NOTES (RETAINING WALL CONST.)

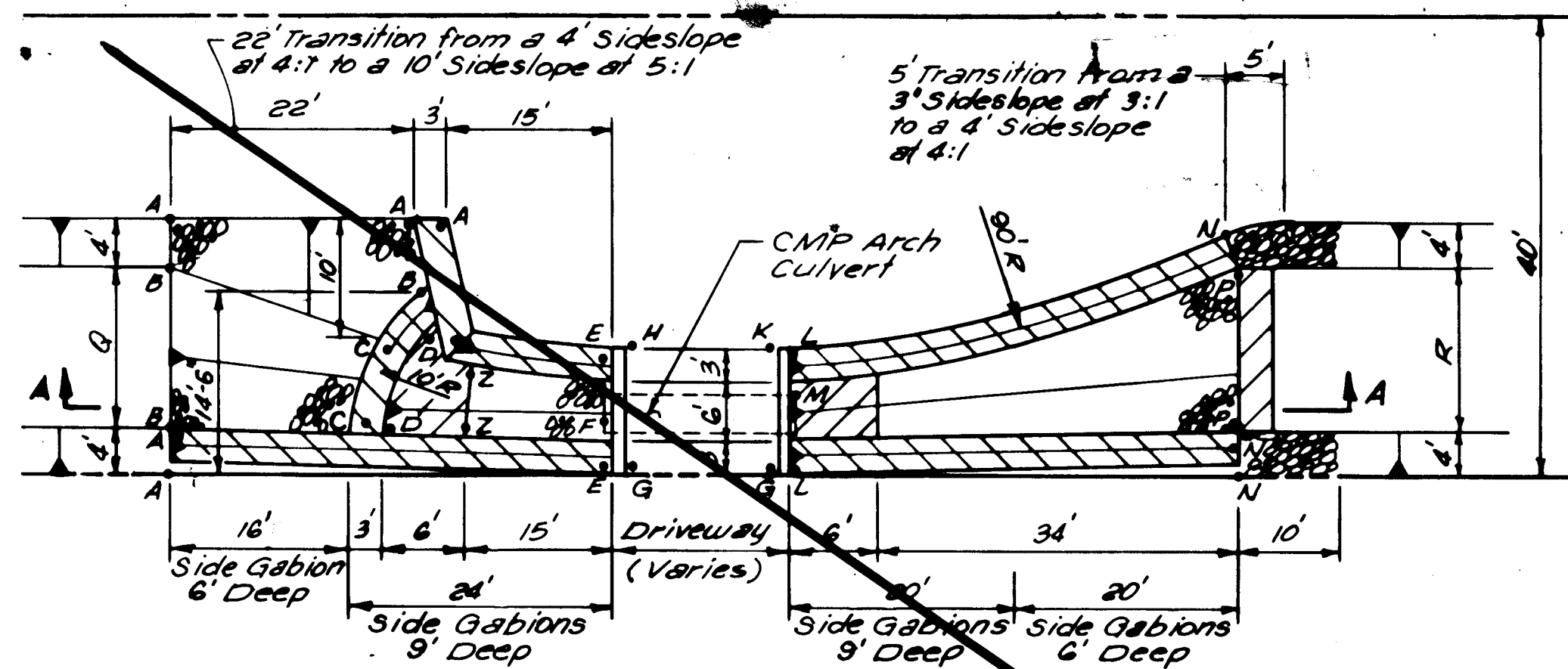
- RETAINING WALL FOOTINGS SHALL BE EMBEDDED A MINIMUM OF EIGHTEEN INCHES BELOW LOWEST ADJACENT GRADE. RETAINING WALL FOOTINGS SHALL BE PLACED ON A MINIMUM OF 2'-0" OF ENGINEERED FILL EXTENDING A MINIMUM OF 2'-0" FROM THE EDGE OF THE FOOTING AND COMPACTED TO A MINIMUM OF 95% OPTIMUM DENSITY (ASTM D-1557). BACKFILL SHALL BE FREE DRAINING MATERIAL AND SHALL BE PLACED IN 8" LOOSE LIFTS AND COMPACTED TO 90% OPTIMUM DENSITY (ASTM D-1557) WITH LIGHT VIBRATORY COMPACTING EQUIPMENT.
- RETAINING WALL SHALL NOT BE BACKFILLED UNTIL AT LEAST 7 DAYS AFTER PLACING OF FINAL GROUT LEVEL. WHERE HEAVY EQUIPMENT IS USED IN BACKFILLING, SUCH EQUIPMENT SHOULD NOT APPROACH CLOSER TO THE TOP OF THE WALL THAN A DISTANCE EQUAL TO THE HEIGHT OF THE WALL. CARE SHOULD BE TAKEN TO AVOID EXERTING FORCES ON THE WALL AS COULD BE CAUSED BY EARTH MOVING EQUIPMENT.
- REINFORCED EXPANSION CONTROL PILASTERS SHALL BE SPACED AT 12'-0" O.C. AND AT WALL TRANSITIONS. SEE PILASTER DETAIL THIS SHEET.
- DISCONTINUE HORIZONTAL WALL REINFORCEMENT AT JOINTS AND PILASTERS. USE 6" MIN. LAP SPLICES.
- REINFORCEMENT OF A SIZE AND SPACING OTHER THAN THAT GIVEN IN THE DETAILS MAY BE USED PROVIDING SUCH OTHER REINFORCEMENT FURNISHES AN AREA OF STEEL AT LEAST EQUAL TO THAT GIVEN IN THE DETAILS. LAP SPLICES IN REINFORCING BARS SHALL BE:
 - #3 BAR - 1'-4"
 - #4 BAR - 1'-8"
 - #5 BAR - 2'-2"
- HORIZONTAL REINFORCING IN FOOTINGS SHALL BE CONTINUOUS AROUND CORNERS AND THROUGH TRANSITIONS. FIELD BEND BARS AT TRANSITIONS AS REQUIRED.

- THE GRADE 40 "L" BAR AT TOP OF THE RETAINING WALL IS TO LAPPED WITH THE REQUIRED VERTICAL REINFORCEMENT OF THE 6" CMU GARDEN WALL. THE HORIZONTAL LEG OF THE "L" BAR SHALL BE ALIGNED WITH THE WALL.
- CONSTRUCTION OF RETAINING WALLS SHALL CONFORM TO REQUIREMENTS OF THE UNIFORM BUILDING CODE SECTION 24, LOW-LIFT GROUTING METHOD.
- OMISSION OF A VERTICAL MORTAR JOINT ON FIRST COURSE AT 48" O.C. SHALL BE USED FOR WEEP HOLES. WHITE SLUMP BLOCK WITH A MINIMUM COMPRESSIVE STRENGTH OF 1500 PSI MAY BE SUBSTITUTED FOR STANDARD CMU GRADE N.
- DESIGN DATA
 - BLOCK WEIGHT 12" = 130 PSF
 - BLOCK WEIGHT 8" = 85 PSF
 - SOIL WEIGHT = 110 PCF
 - EQUIV. FLUID PRESSURE = 36 PCF
 - SOIL BEARING PRESSURE = 2000 PSF (1/3 INCREASE FOR WIND/SEISMIC)
 - COEFFICIENT OF FRICTION = 0.4
 - PASSIVE SOIL PRESSURE = 325 PCF
 - CONCRETE FC (28 DAYS) = 3000 PSI
 - GROUT STRENGTH = 2000 PSI
 - CMU GRADE N, fb = 1500 PSI (GROUTED)
 - REINFORCEMENT = 60 ASTM A-615, UNLESS NOTED OTHERWISE
 - MORTAR = TYPE M
- CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO CONCRETE FOOTING POUR FOR INSPECTION OF COMPACTION UNDER FOOTING, FOOTING DEPTH AND WIDTH AND WALL STEEL AND SPACING. FINAL INSPECTION OF FOOTING AND WALL WILL BE REQUIRED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR CODE ADMINISTRATION APPROVAL AND FEES ASSOCIATED WITH IT.
- RETAINING WALLS SHALL RECEIVE A BITUMINOUS WATERPROOFING MATERIAL ACCEPTABLE TO THE ENGINEER. WATERPROOFING SHALL BE APPLIED TO THE BACK OF THE CMU BELOW GRADE.
- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION.

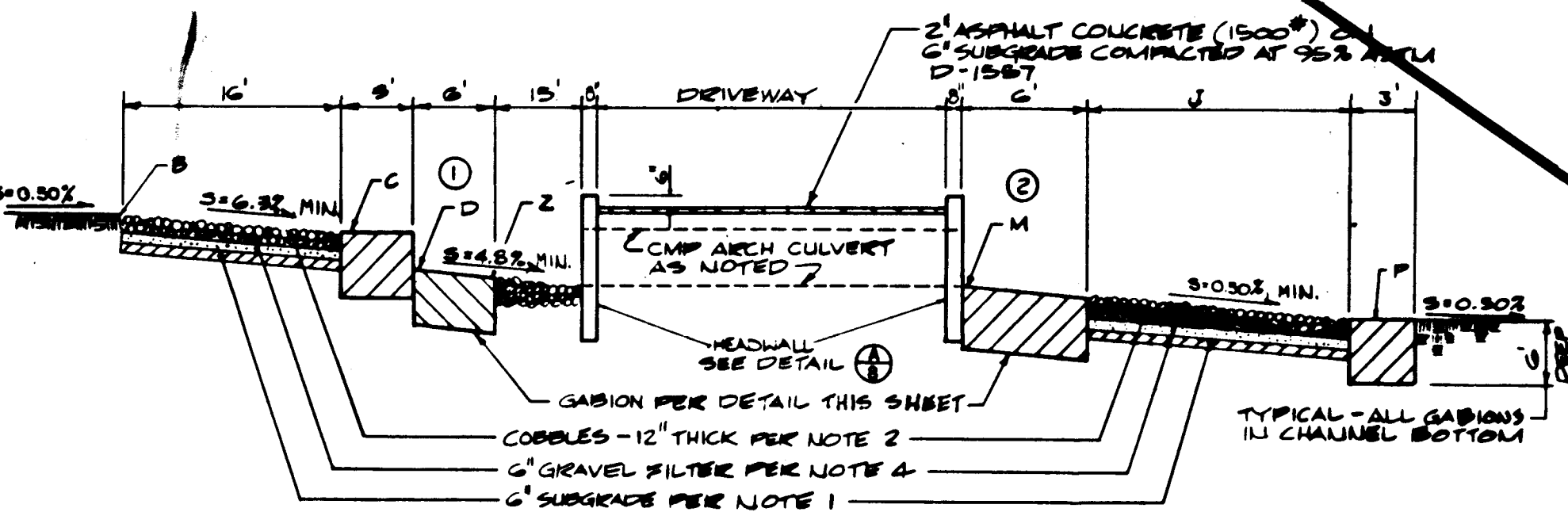
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CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: *RANCHO ENCANTADO SUBDIVISION GRADING & DRAINAGE DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>[Signature]</i>	2-23-93	WATER	N/A RWK	1-21-93
TRANS. DEV.	<i>[Signature]</i>	1-23-93	WASTE WATER	N/A RWK	1-21-93
HYDROLOGY	<i>[Signature]</i>	1-23-93			
PARKS					
PROJECT NO.	4569.90	MAP NO.	D-12	SHEET 8	OF 35

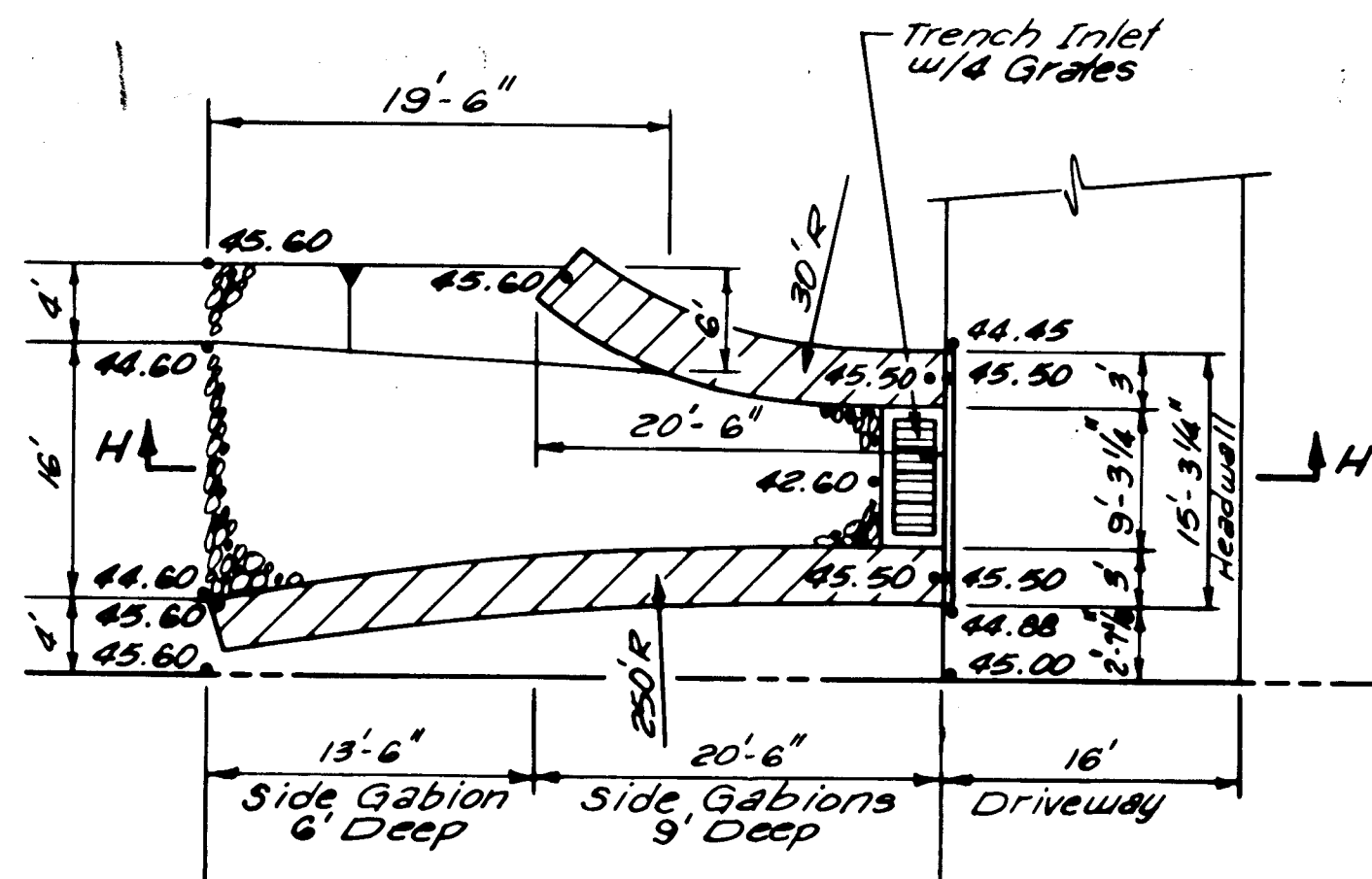
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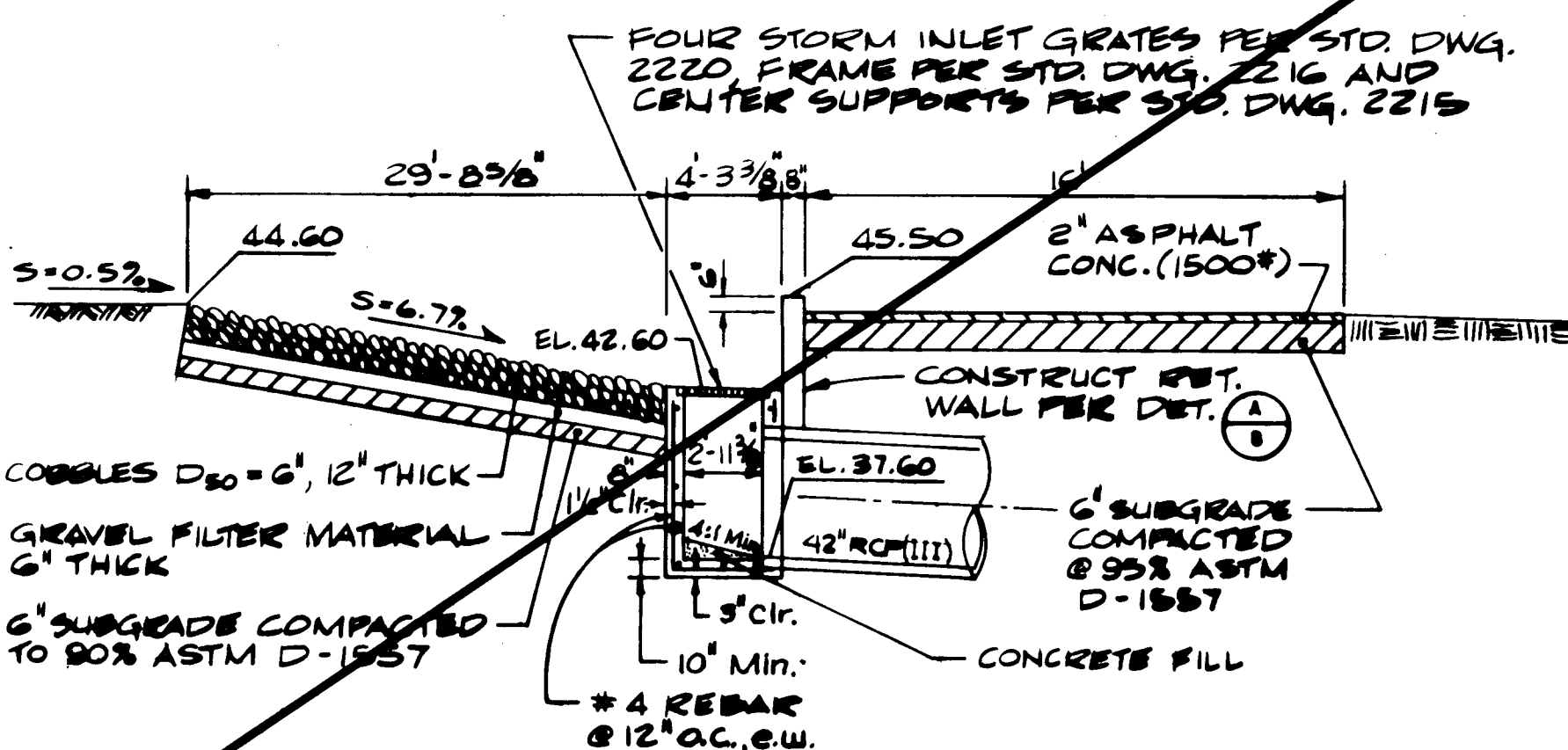
CULVERT PLAN
N.T.S.



CULVERT SECTION
N.T.S.



INLET PLAN
N.T.S.



SECTION H-H
N.T.S.

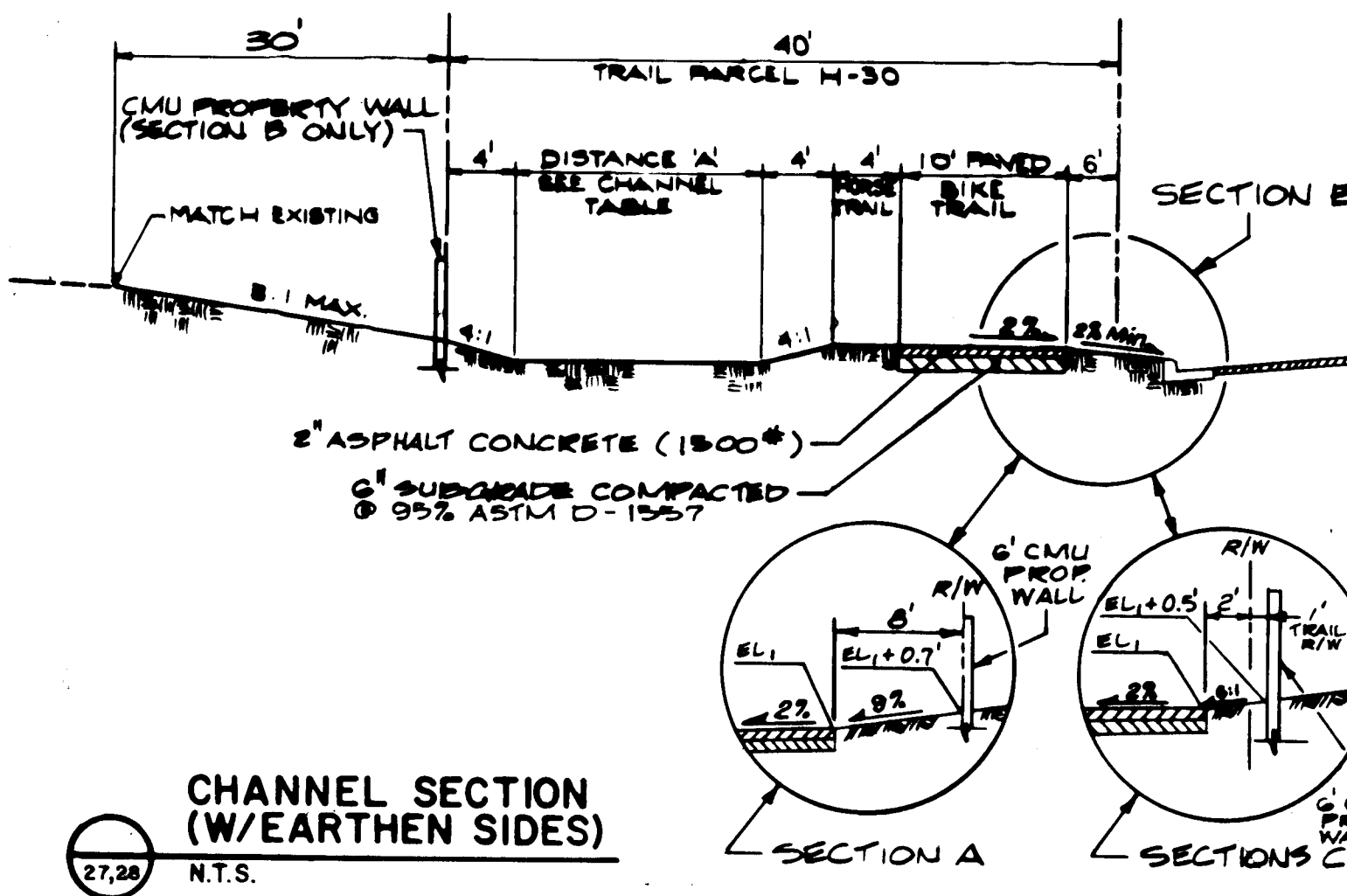
GENERAL CHANNEL NOTES

- CHANNEL SUBGRADE SHALL BE SCARIFIED AND RECOMPACTED TO A DEPTH OF 6" AT MINIMUM 90% ASTM D-1557 DENSITY.
- COBBLES IN CHANNEL SHALL COMPLY WITH THE REQUIREMENTS OF SECTION 109 OF THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS. FOR PUBLIC WORKS CONSTRUCTION, EXCEPT AS HEREIN DESCRIBED, GRADATION SHALL BE TYPE VL PER TABLE 100. COBBLE SHALL HAVE ROUNDED EDGES. COBBLE WITH ANGULAR OR BROKEN EDGES SHALL NOT BE USED.
- BASALT SHALL BE SUPPLIED AND INSTALLED IN ACCORDANCE WITH SECTION 603 OF THE STANDARD SPECIFICATIONS. BASALT RIPRAP SHALL BE TYPE M PER TABLE 109, AND SHALL BE INDIGENOUS TO THE AREA.
- COBBLES AND RIPRAP SHALL BE PLACED ON GRAVEL FILTER MATERIAL. GRAVEL FILTER MATERIAL SHALL BE SUPPLIED AND INSTALLED PER SECTION 603.10 OF THE STANDARD SPECIFICATIONS, AND THE GRADATION SHALL BE AS FOLLOWS:

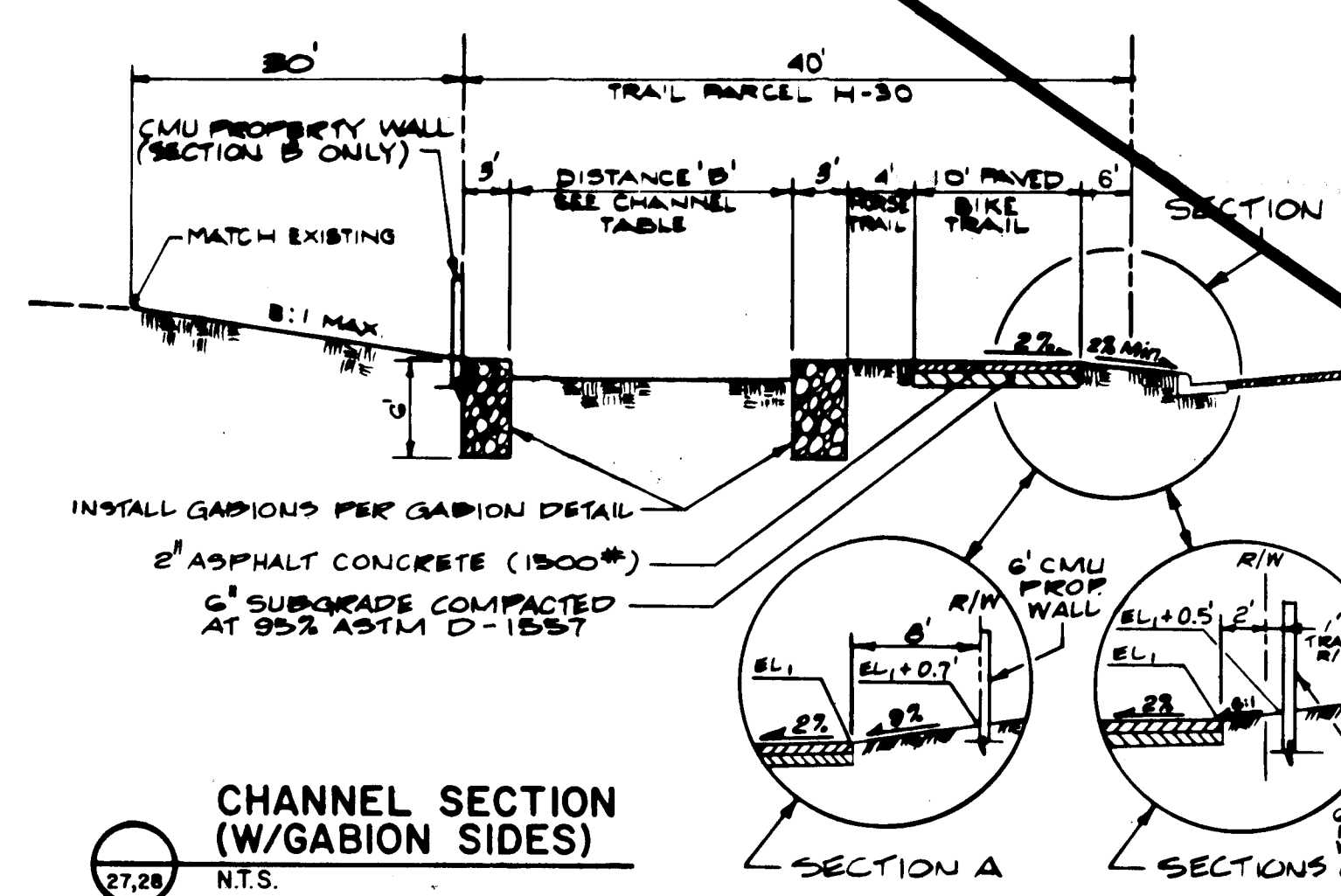
SIEVE SIZE	% PASSING
3"	90-100
3/4"	20-90
#4	0-20
#200	0-3
- BACKFILL, COMPACTION, AND REGRADING OF CHANNEL AFTER GABION, RIPRAP, COBBLE, CULVERT, TRAIL, OR HEADWALL CONSTRUCTION SHALL BE DONE AS NECESSARY TO BRING THE CHANNEL WITHIN THE GRADING TOLERANCE. SUCH REGRADING SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE CHANNEL. NO ADDITIONAL PAYMENT WILL BE MADE THEREFOR.
- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
- CONTRACTOR IS RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ALL UTILITY CONDUITS AND EXISTING LINES.
- CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES SO AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF RESIDENTS OR OTHER CONTRACTORS ON SITE.
- ANY DAMAGE TO THE EXISTING FACILITIES (CURB AND GUTTER, PAVEMENT, CONDUITS, LANDSCAPING, UTILITY LINES, ETC.) DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- SOME COBBLED AREAS WILL HAVE LANDSCAPE IMPROVEMENTS CONSTRUCTED WITHIN THEM. LANDSCAPING CONSTRUCTION WITHIN THESE AREAS SHALL BE COORDINATED WITH COBBLE CONSTRUCTION. SEE THE PLANTING ENLARGEMENT SHEET FOR DETAILS PRIOR TO COBBLE INSTALLATION.

CULVERT #	B	F	G
El. A	70.7	59.4	51.0
El. B	69.7	58.4	50.0
El. C	68.5	57.4	49.0
El. D	67.5	56.4	48.5
El. E	66.6	55.4	47.5
El. F (Culv. In)	66.2	54.4	47.5
El. G	65.55	53.8	46.94
El. H	64.35	52.62	45.7
El. I	63.9	51.52	44.68
El. J	63.8	50.5	43.6
El. K (Culv. Out)	63.6	49.4	42.5
El. L	62.6	48.3	41.4
El. M	61.6	47.2	40.3
El. N	60.6	46.1	39.2
El. P	59.6	45.0	38.1
Dist. Q (ft.)	10	12	16
Dist. R (ft.)	12	16	16
El. Z	67.1	55.0	48.0
Culvert	43" X 27"	43" X 27"	43" X 27"
Q ₁₀₀ (CFS)	39.5	43.7	58.3
Q _{cap} @ 1	74.7	74.7	74.7
Q _{cap} @ 2	62.0	62.0	62.0

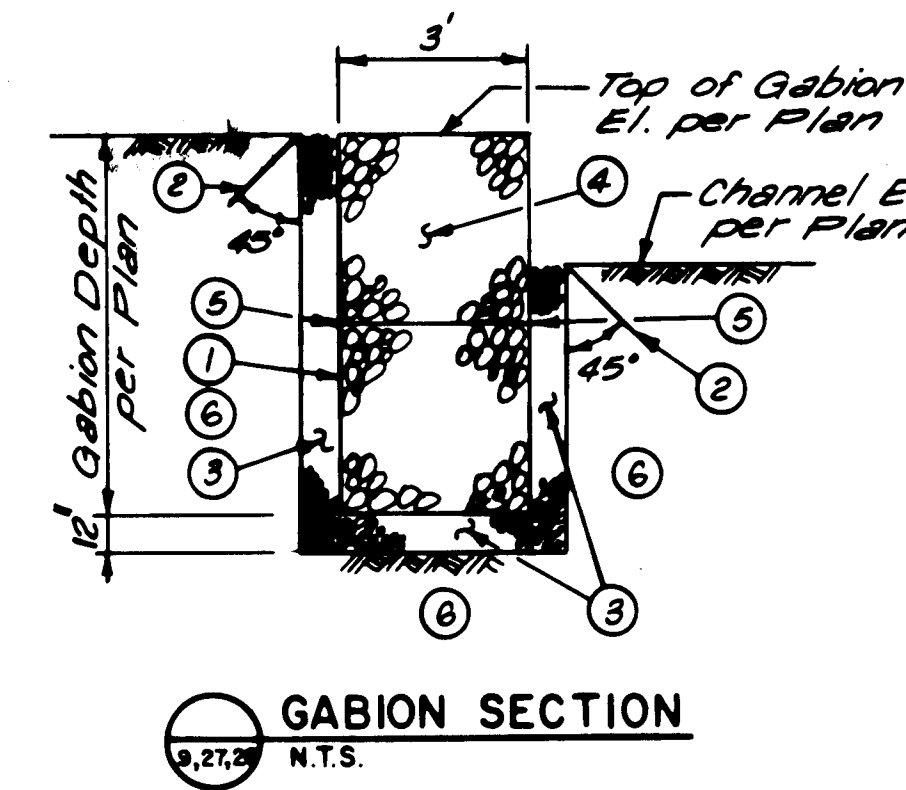
Section	Q ₁₀₀ CFS	Q _{cap} CFS	"A" (FT)	S (FT/FT)	Water Depth (FT)	Manning's (N)	Velocity (FPS)	Froude Number	"B" (FT)
A-A	39.5	41.1	10	0.0090	0.98	0.030	2.9	0.52	12
B-B	43.7	47.9	12	0.0050	0.95	0.030	2.9	0.52	14
C-C	58.3	61.6	16	0.0050	0.97	0.030	3.0	0.53	18
D-D	61.2	61.6	16	0.0090	1.00	0.030	3.0	0.53	18



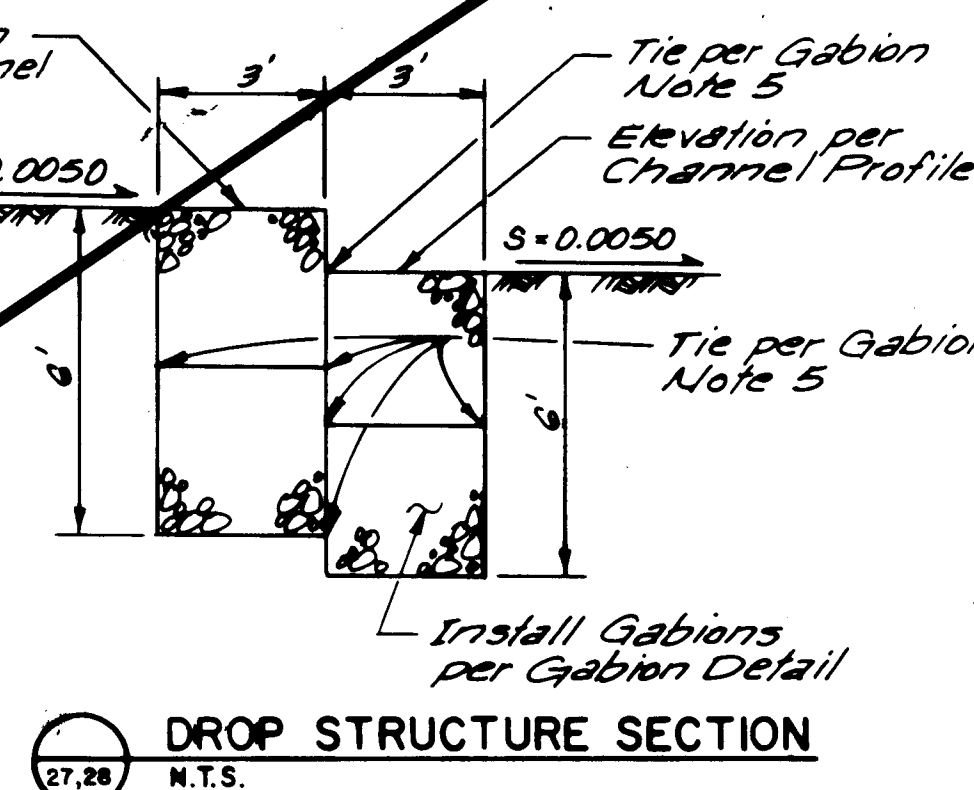
CHANNEL SECTION (W/EARTHEN SIDES)
N.T.S.



CHANNEL SECTION (W/GABION SIDES)
N.T.S.



GABION SECTION
N.T.S.



DROP STRUCTURE SECTION
N.T.S.

KEYED GABION NOTES

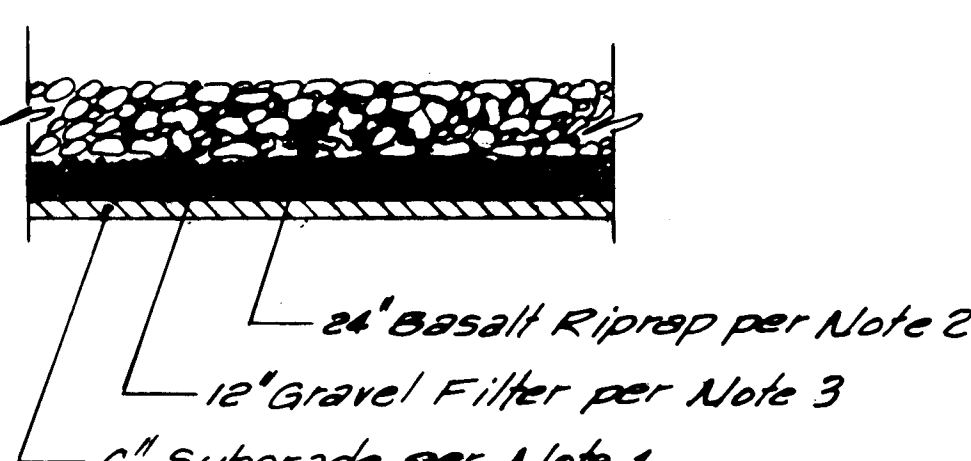
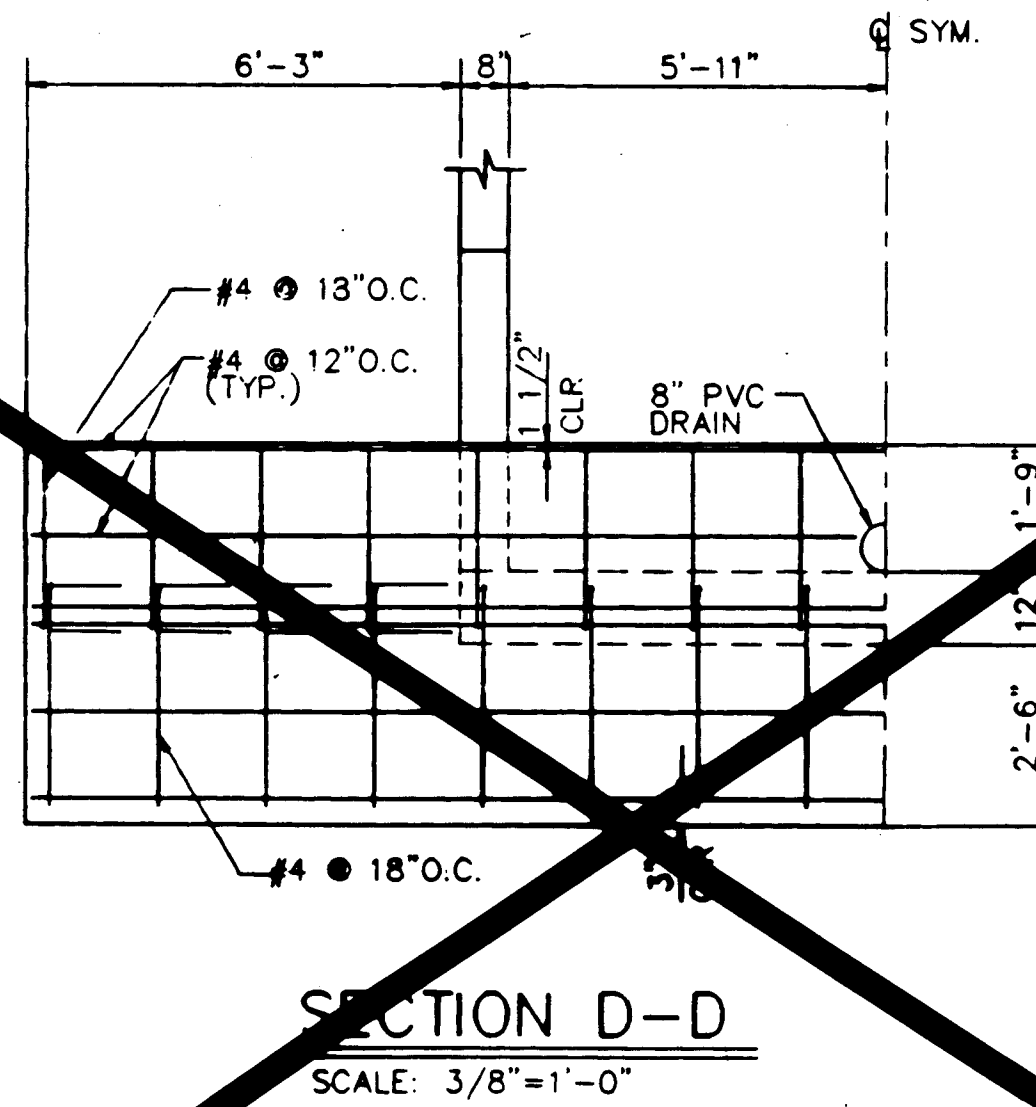
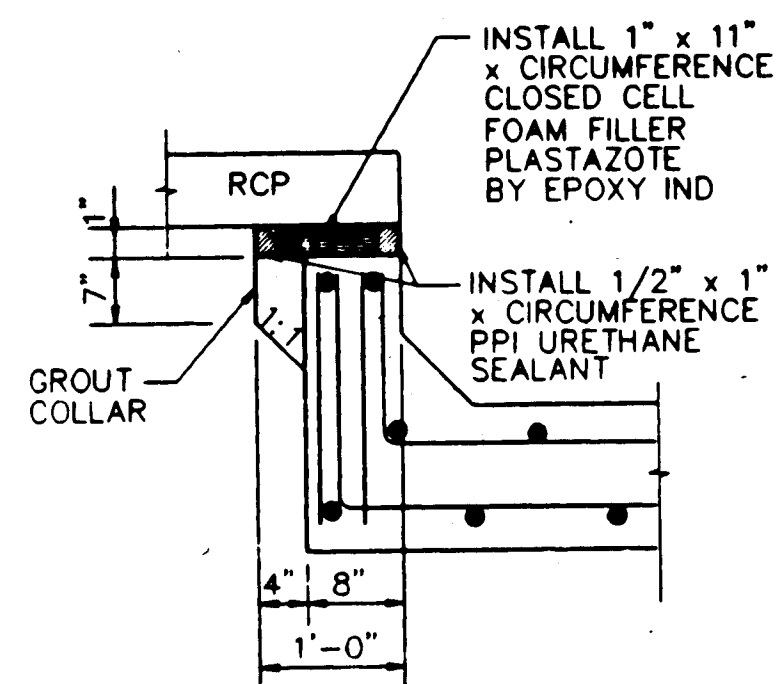
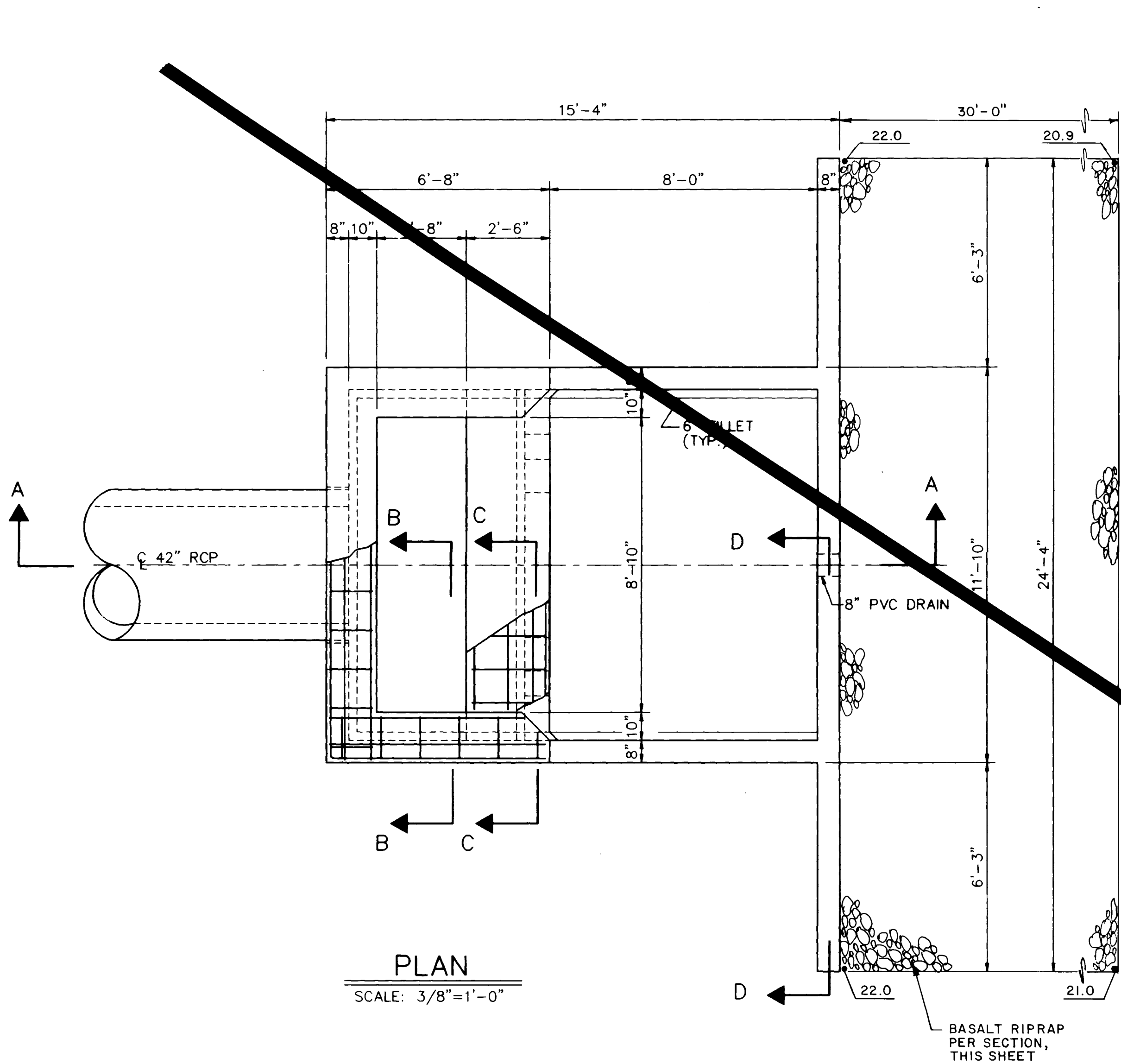
- MIRAFI NO. 140N GEOTEXTILE FABRIC, OR APPROVED EQUAL, TO BE SUPPLIED AND INSTALLED PER SECTION 603.9 OF THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. WHEN PLACING MATERIAL ON AND AROUND FABRIC, CARE SHALL BE TAKEN NOT TO PUNCTURE OR TEAR THE FABRIC. PORTIONS OF FABRIC WHICH ARE PUNCTURED OR TORN SHALL BE REMOVED AND REPLACED TO THE ENGINEER'S SATISFACTION AT NO ADDITIONAL EXPENSE TO THE OWNER.
- A 24" MINIMUM LENGTH OF FILTER FABRIC SHALL BE PROVIDED ALONG THE EDGES OF THE FILTER FABRIC AS SHOWN TO SECURE THE EDGE OF THE FABRIC.
- GRAVEL FILTER MATERIAL, 12" THICK, TO BE SUPPLIED AND INSTALLED PER SECTION 603.10 OF THE STANDARD SPECIFICATIONS. MATERIAL SHALL MEET THE REQUIREMENTS OF SECTION 109 OF THE STANDARD SPECIFICATIONS, AND THE GRADATION SHALL BE AS FOLLOWS:

SIEVE SIZE	% PASSING
3"	90-100
3/4"	20-90
#4	0-20
#200	0-3
- GABIIONS SHALL BE SUPPLIED AND CONSTRUCTED IN ACCORDANCE WITH SECTION 610 OF THE STANDARD SPECIFICATIONS. THE ROCK FILLER SHALL BE TYPE L PER TABLE 109, AND SHALL BE LOCALLY-SUPPLIED BASALT. INTERLOCKING WIRE FASTENERS INSTALLED BY THE USE OF A HOG RING GUN MAY BE USED IN LIEU OF WIRE LACING. INTERLOCKING WIRE FASTENERS SHALL HAVE A CLOSED POSITION TENSILE STRENGTH OF 900 LBS WHEN PULLED ALONG ANY AXIS WHILE REMAINING IN A LOCKED AND CLOSED CONDITION. PROPERLY FORMED FASTENERS SHALL BE SPACED FROM 4 TO 6 INCHES AND HAVE A MINIMUM 3/4" SQUARE INCH INSIDE AREA TO PROPERLY CONFINE THE REQUIRED SELVEDGE WIRES.
- GABION BASKETS SHALL BE TIED TOGETHER AT ALL COMMON EDGES PER SECTION 610.4.2 AND NOTE 4.
- ALL SUBGRADE AND BACKFILL SHALL BE PLACED IN 8" MAXIMUM LIFTS AND COMPACTED TO 95% ASTM D-1557.

CONSTRUCTION WITHIN TRACT H-30 (THE TRAIL RIGHT-OF-WAY) IS NOT INCLUDED IN THIS WORK ORDER.

26 4569.900993

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP			
TITLE: * RANCHO ENCANTADO SUBDIVISION GRADING & DRAINAGE DETAILS			
APPROVALS	ENGINEER	DATE	APPROVALS
DRC CHAIRMAN	<i>[Signature]</i>	2-23-93	WATER
TRANS. DEV.	<i>[Signature]</i>	1-21-93	WASTE WATER
HYDROLOGY	<i>[Signature]</i>	1-28-93	AMAFCA
PARKS			
PROJECT NO.	4569.90	MAP NO.	D-12
SHEET	9	OF	35



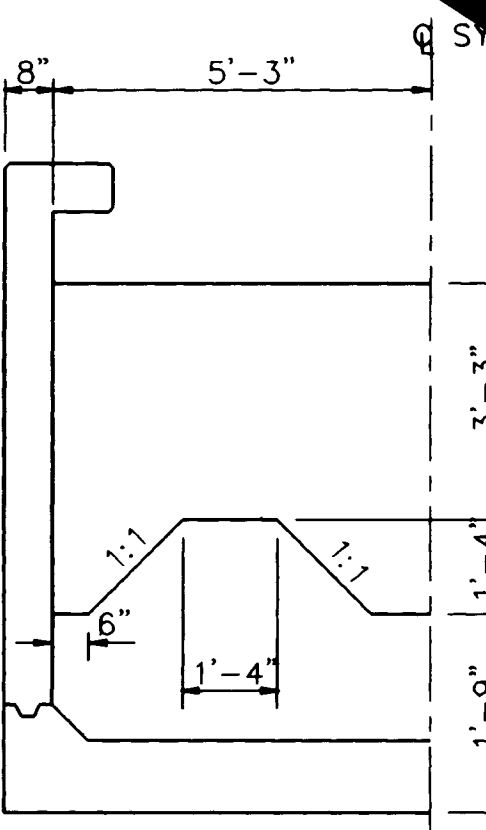
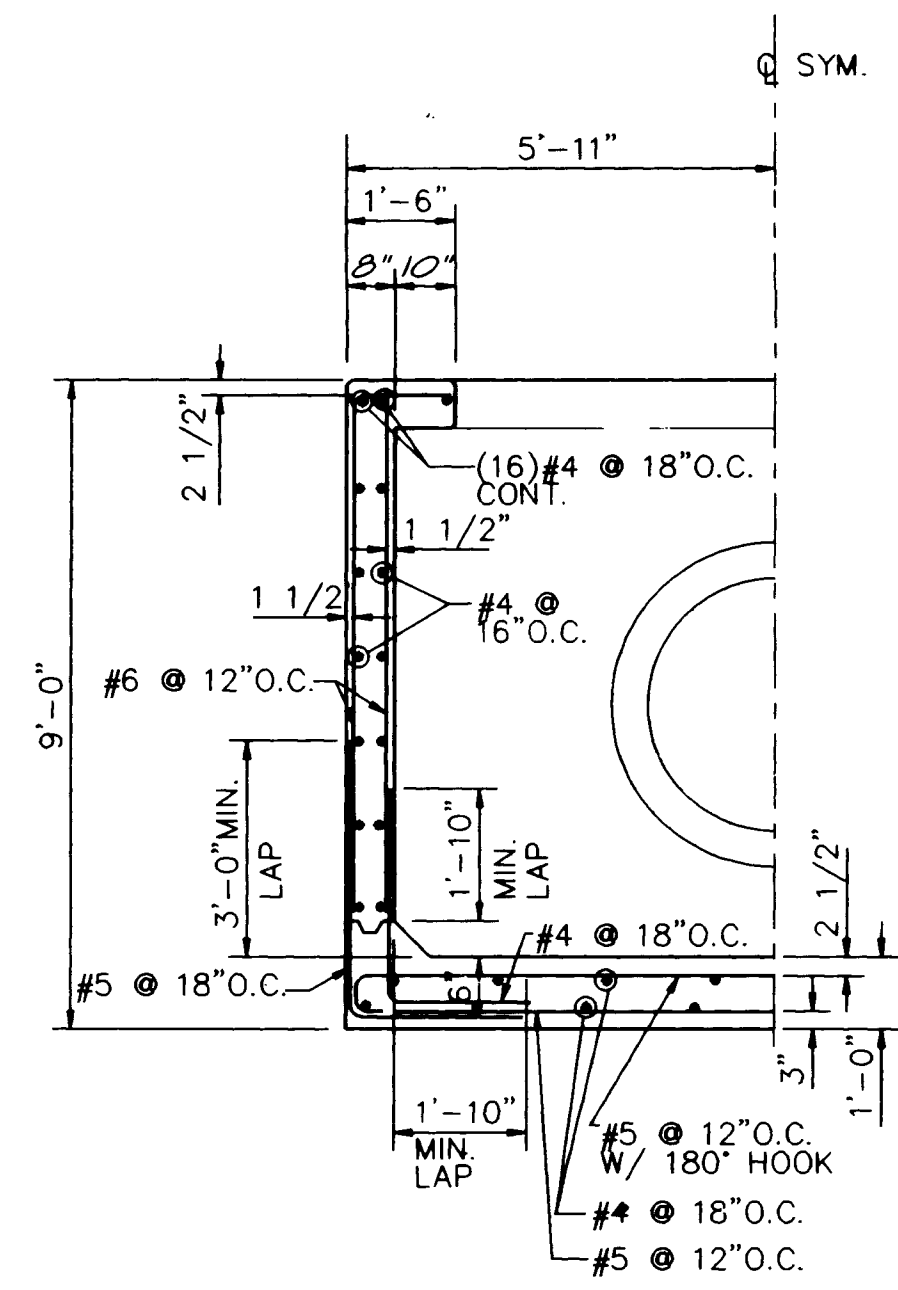
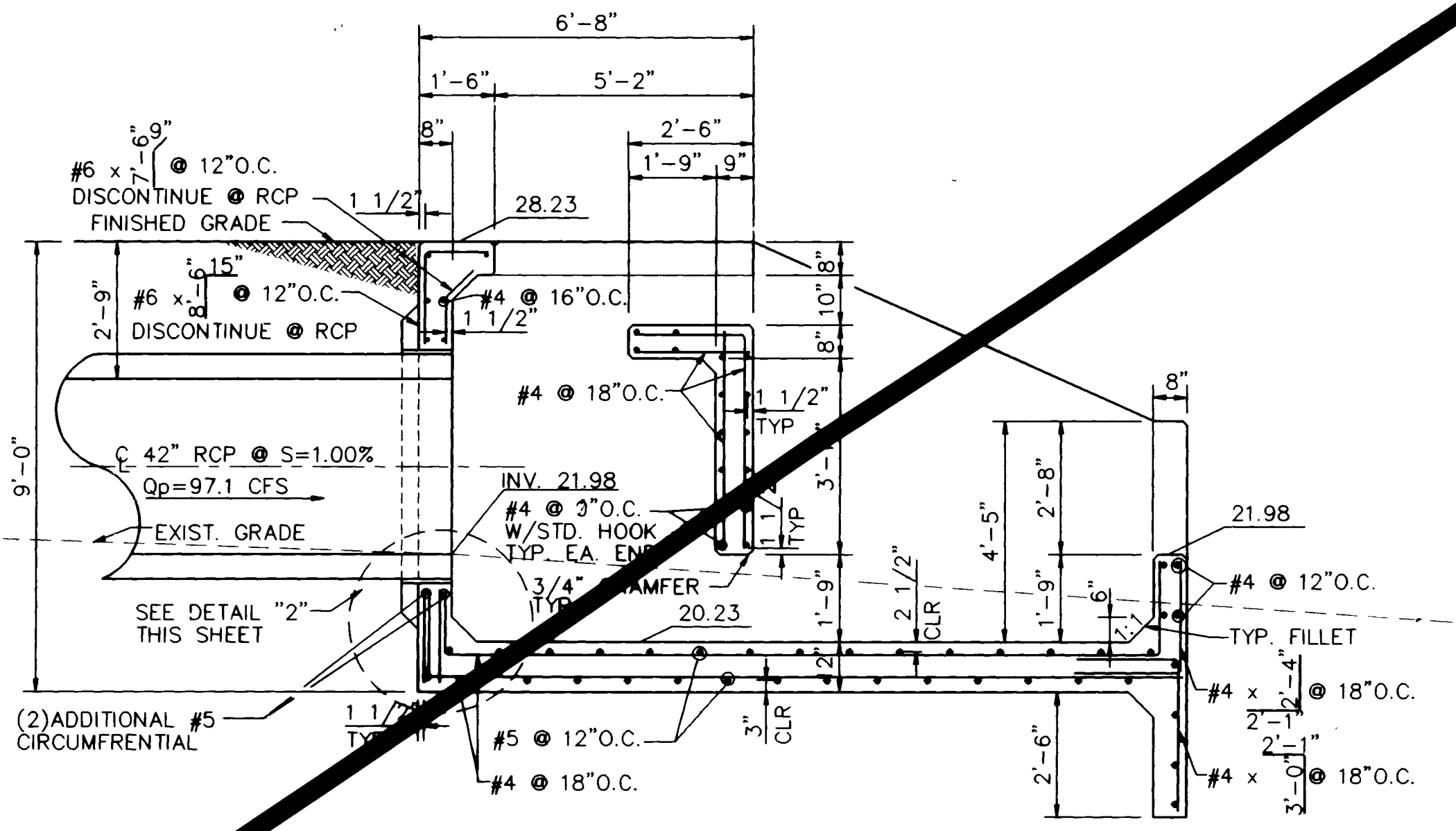
RIPRAP NOTES

- RIPRAP SUBGRADE SHALL BE SCARIFIED AND COMPACTED TO A DEPTH OF 6" AT MINIMUM 90% ASTM D-1557 DENSITY.
- RIPRAP SHALL CONSIST OF LOCALLY OBTAINABLE BASALT SUPPLIED AND INSTALLED IN ACCORDANCE WITH SECTION 603.10 OF THE STANDARD SPECIFICATIONS. RIPRAP SHALL BE TYPE M PER TABLE 109.
- RIPRAP SHALL BE PLACED ON GRAVEL FILTER MATERIAL. GRAVEL FILTER MATERIAL SHALL BE SUPPLIED AND INSTALLED PER SECTION 603.10 OF THE STANDARD SPECIFICATIONS, AND THE GRADATION SHALL BE AS FOLLOWS:

SIEVE SIZE	% PASSING
3"	90-100
3/4"	20-90
#4	0-20
#200	0-3

GENERAL STRUCTURAL NOTES

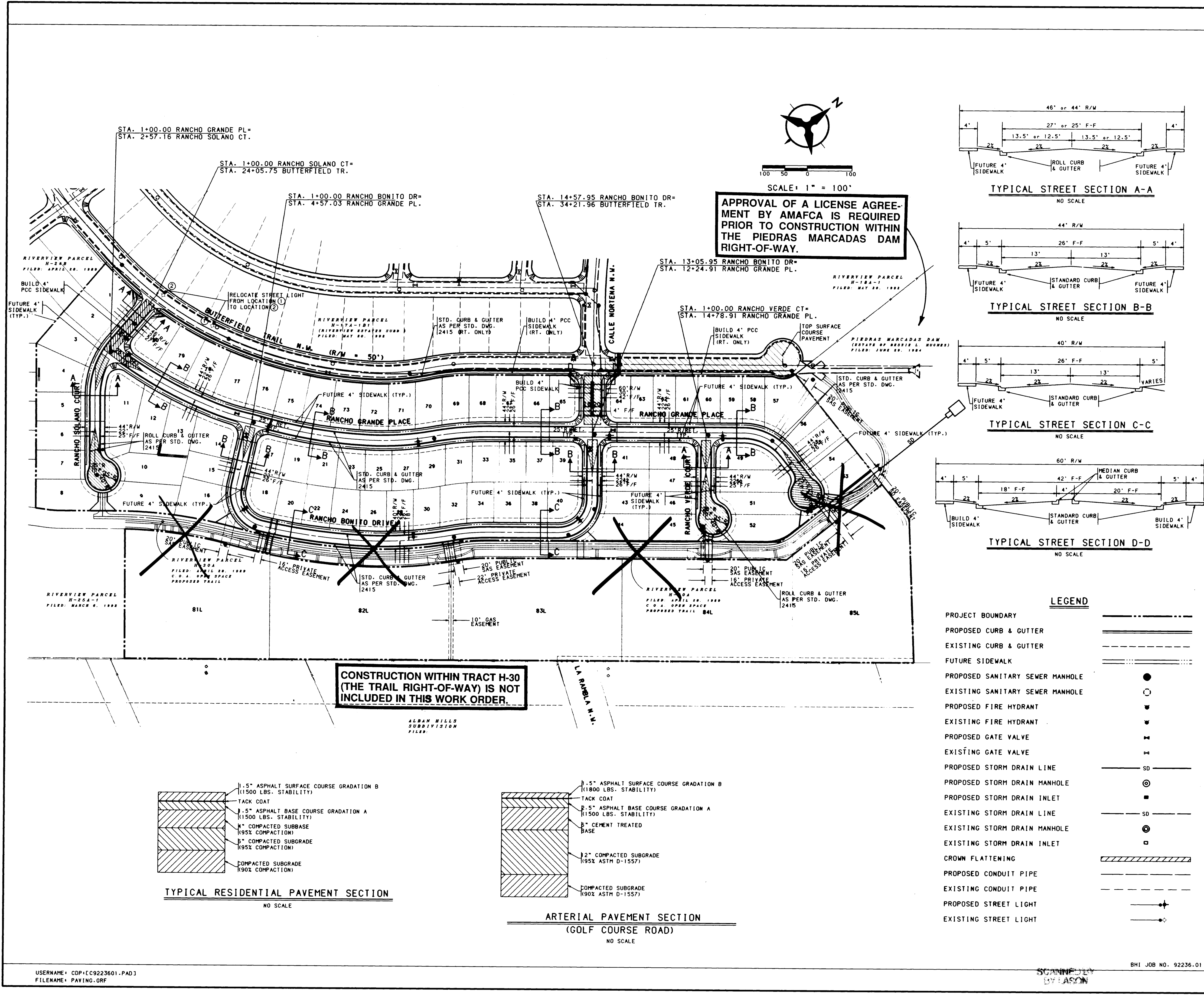
- CODES AND MANUALS:
Uniform Building Code, 1991 Edition
ACI 318, Latest Edition, Building Code Requirements for Reinforced Concrete.
- DESIGN LOADS:
A. Live Loads:
Soil Weight = 120 pcf
Equiv lateral = 40 pcf
B. Maximum Allowable soil bearing pressure: 2000psf*
*Allowable 1/3 strength increase for gravity and/or lateral loading.
- GENERAL:
A. The Contractor shall verify all dimensions in the field.
B. Shop drawings shall be furnished for review before fabrication and erection is started. Poorly executed shop drawings shall be rejected and resubmitted.
C. The Contractor shall be responsible for providing safe and adequate shoring for all parts of the wall and adjacent structures during construction, as well as worker safety and compliance with OSHA or other agency safety guidelines.
D. The contractor shall field verify all existing utility locations and notify the engineer immediately of any discrepancies.
E. Grade elevations, where noted, are for top of curb, unless otherwise noted.
F. The contractor is responsible for repair and/or replacement of all utility conduits and existing lines.
G. Any additional grading required to match proposed street grades shall be incidental to paving items.
H. The contractor shall park equipment and vehicles as not to interfere with normal activities of residents or other contractors on site.
I. Any damage to existing facilities (curb and gutter, pavement, conduits, landscaping, utilities, etc.) during construction shall be replaced at the contractor's expense.
J. Removal of the existing curb and gutter shall be as per COA standard drawing 2415 (sawcut only).
- MATERIALS:
A. Cost-in-Place Concrete:
(1) All concrete shall conform to the specifications for Structural Concrete, ACI 301 Latest Edn.
(2) Hardrock Concrete: Dry unit weight = 145 pcf
a. $f_c = 3000$ psi @ 28 days (air entrained)
All exterior concrete including side walks, slabs, pads, curbs, gutters, and retaining walls.
b. Maximum dry unit weight = 145 pcf.
c. Maximum slump = 4 inches.
d. Maximum aggregate size = 3/4 inch.
e. Minimum cement content, per ACI 301 design methods.
Use Type I & II cement.
C. Reinforcing Steel:
(1) All reinforcing steel shall conform to ASTM A615 Grade 60; except stirrups, ties, may conform to ASTM A615 Grade 40.
(2) Reinforcing shall be stored in such a manner as to inhibit rusting or the deposit of oils or other bond inhibiting deposits.
(3) Reinforcing steel shall be fabricated and placed in accordance with the Building Code Requirements for Reinforced Concrete (ACI 318) and the CRSI Standard Manual.
(4) Bar supports and spacers for rebar shall be provided in accordance with ACI and CRSI.
(5) All lap splices shall be class B.
(6) Concrete cover for reinforcing shall be as follows:
a. Concrete poured against earth 3 inches
b. Concrete poured in forms but exposed to weather or earth:
1. If bars are larger than No. 5 2 inches
2. If bars are No. 5 or smaller 1-1/2 inches
(7) The Contractor shall be responsible to see that all rebar is properly aligned and tied in place before placing concrete. All column, wall dowels and vertical steel shall be accurately located and secured in place so that it remains in the position shown during the concrete placing operation. Any rebar found to be improperly installed shall be removed at no additional cost to the Owner.
(8) Form ties shall be either of the threaded or snap-off type or other approved equal so that no material will be left within 1 inch of the surface of the wall. Following removal of form ties, recesses are to be carefully filled and pointed with mortar.



CONSTRUCTION WITHIN TRACT H-30 (THE TRAIL RIGHT-OF-WAY) IS NOT INCLUDED IN THIS WORK ORDER.

APPROVAL OF A LICENSE AGREEMENT BY AMAFCA IS REQUIRED PRIOR TO CONSTRUCTION WITHIN THE PIEDRAS MARCADAS DAM RIGHT-OF-WAY.

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: * RANCHO ENCANTADO SUBDIVISION GRADING & DRAINAGE DETAILS ENERGY DISSIPATOR PLAN & SECTIONS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. CHAIR	<i>[Signature]</i>	2-23-93	WATER	N/A RWK	1-21-93
TRANS. DEV.	N/A RHD	1-21-93	WASTE WATER	N/A RWK	1-21-93
HYDROLOGY	<i>[Signature]</i>	1-28-93	AMAFCA		
PROJECT NO. 4569.90		MAP NO. D-12		SHEET 10 OF 35	



NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
2. ALL CURB RETURN RADIUS SHALL BE 25' TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.
3. ALL CURVE DATA AND DIMENSIONS REFER TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.
4. GRADE ELEVATIONS, WHERE NOTED, ARE FOR TOP OF STANDARD CURB UNLESS OTHERWISE SPECIFIED.
5. CONTRACTOR IS TO INSTALL A 4"x4"x5' POST AND END AT THE END OF EACH SANITARY SEWER SERVICE.
6. CONTRACTOR IS RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ALL UTILITY CONDUITS AND EXISTING LINES.
7. ANY ADDITIONAL GRADING REQUIRED TO MATCH PROPOSED STREET GRADES SHALL BE INCIDENTAL TO PAVING ITEMS.
8. CONTRACTOR SHALL PROVIDE THE INSPECTORS (CITY AND PRIVATE) WITH THE PROPOSED HYDROSTATIC TESTING PLAN. THE PLAN MUST BE APPROVED BEFORE TESTING OPERATIONS BEGIN.
9. CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF RESIDENTS OR OTHER CONTRACTORS ON SITE.
10. ANY DAMAGE TO THE EXISTING FACILITIES (CURB AND GUTTER, PAVEMENT, CONDUITS, LANDSCAPING, UTILITY LINES, ETC.) DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.
11. REMOVAL OF THE EXISTING CURB AND GUTTER SHALL BE AS PER COA STD. DWG. 2415 (SAWCUT ONLY).
12. WHEEL CHAIR RAMPS SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB AND GUTTER.
13. THE FOLLOWING PERSONS SHALL BE NOTIFIED AT LEAST TWO BUSINESS DAYS PRIOR TO INSTALLING UTILITY CONDUIT CROSSINGS:

AS BUILT INFORMATION

CONTRACTOR	WORK	DATE
DATE	DATE	DATE

BENCH MARKS

STATION MARK IS A STANDARD USGS BRASS	DATE
TABLET, STAMPED "HUGHES, 1954", SET IN TOP OF	DATE
A CONCRETE POST PROJECTING 0.3 FT. ABOVE THE	DATE
GROUND. TO REACH THE STATION FROM THE	DATE
INTERSECTION OF CENTRAL AVE. AND STATE RD. 448.	DATE
GO NORTH ON STATE RD. 448. 6.1 MILES.	DATE
THE STATION IS 450' WEST OF STATE RD. 448 IN	DATE
A FENCED-IN PRAIRIE. ELEV. = 5049.93	DATE

LEGEND

PROJECT BOUNDARY	---
PROPOSED CURB & GUTTER	---
EXISTING CURB & GUTTER	---
FUTURE SIDEWALK	---
PROPOSED SANITARY SEWER MANHOLE	●
EXISTING SANITARY SEWER MANHOLE	○
PROPOSED FIRE HYDRANT	●
EXISTING FIRE HYDRANT	○
PROPOSED GATE VALVE	×
EXISTING GATE VALVE	×
PROPOSED STORM DRAIN LINE	SD
PROPOSED STORM DRAIN MANHOLE	⊙
PROPOSED STORM DRAIN INLET	■
EXISTING STORM DRAIN LINE	SD
EXISTING STORM DRAIN MANHOLE	⊙
EXISTING STORM DRAIN INLET	■
CROWN FLATTENING	▨
PROPOSED CONDUIT PIPE	---
EXISTING CONDUIT PIPE	---
PROPOSED STREET LIGHT	+
EXISTING STREET LIGHT	+

COMPANY PHONE CONTACT

PNM	848-3374	TOM BACA
US WEST	245-6374	ELFEBO GARCIA
GAS CO.	761-7770	LEO APDACA
JONES	761-6200	YVETTE SUAZO

ENGINEERS SEAL

P. KELLEY
REGISTERED PROFESSIONAL ENGINEER
NO. 10000
EXPIRATION DATE 12/31/93

REVISIONS

NO.	DATE	REMARKS
1	10/92	DESIGN
2	10/92	DESIGN
3	10/92	DESIGN

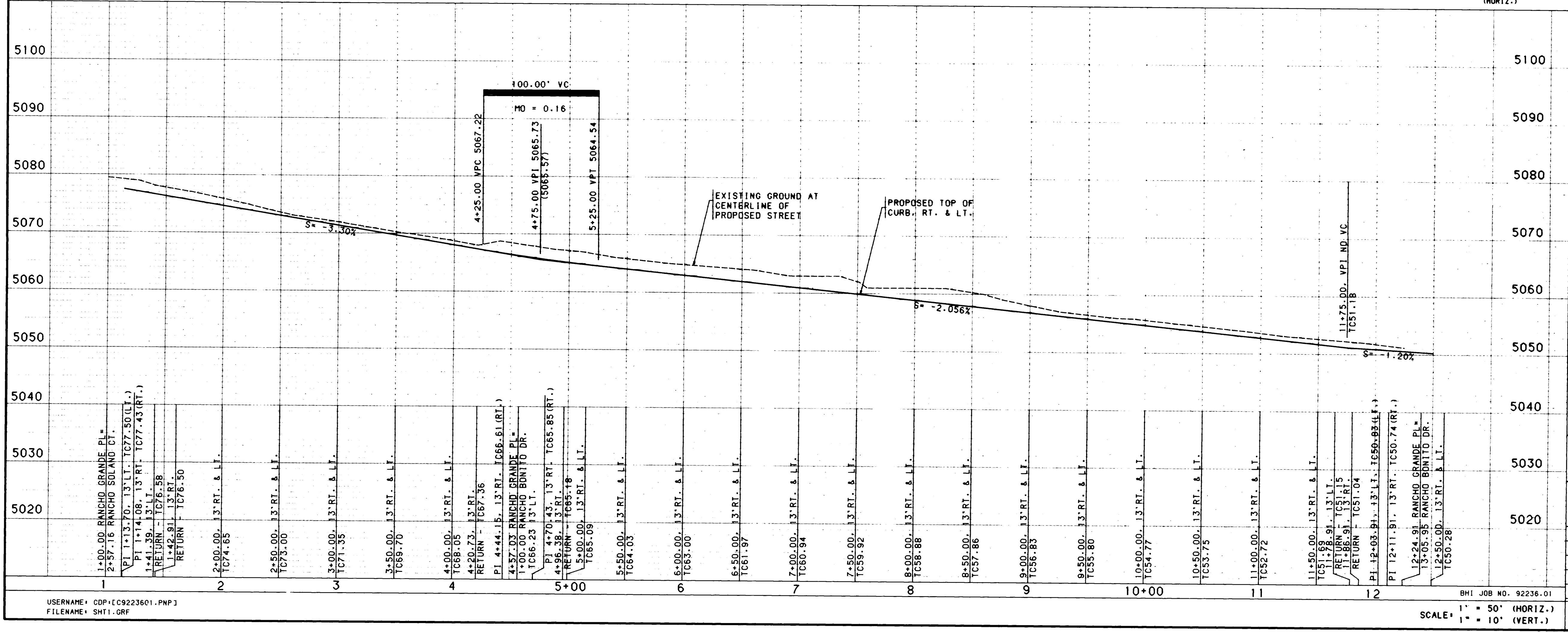
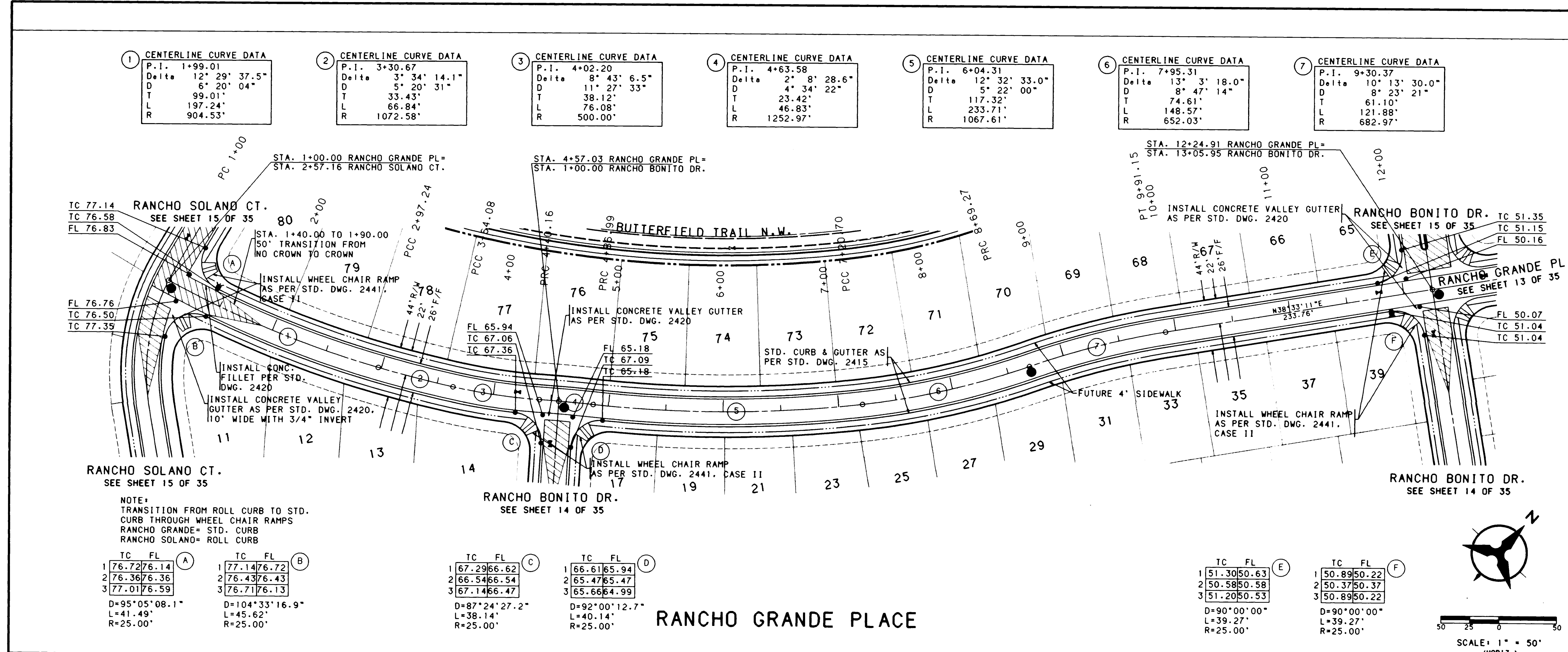
DESIGNED BY JPK
DRAWN BY SAR
CHECKED BY JPK

**CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP**

**TITLE: RANCHO ENCANTADO SUBDIVISION
PAVING PLAN**

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	2-23-93	2-23-93	WATER	N/A	1-21-93
TRANS. DEV.	1-21-93	1-21-93	WASTE WATER	N/A	1-21-93
HYDROLOGY	1-28-93	1-28-93			

PROJECT NO. 4569.90
MAP NO. D-12
SHEET 11 OF 35



NOTES

- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
- ALL CURB RETURN RADII SHALL BE 25' TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.
- ALL CURVE DATA AND DIMENSIONS REFER TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.
- GRADE ELEVATIONS, WHERE NOTED, ARE FOR TOP OF STANDARD CURB UNLESS OTHERWISE SPECIFIED.
- CONTRACTOR IS TO INSTALL A 4"x4"x5" POST AND END AT THE END OF EACH SANITARY SEWER SERVICE.
- CONTRACTOR IS RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ALL UTILITY CONDUITS AND EXISTING LINES.
- ANY ADDITIONAL GRADING REQUIRED TO MATCH PROPOSED STREET GRADES SHALL BE INCIDENTAL TO PAVING ITEMS.
- CONTRACTOR SHALL PROVIDE THE INSPECTORS (CITY AND PRIVATE) WITH THE PROPOSED HYDROSTATIC TESTING PLAN. THE PLAN MUST BE APPROVED BEFORE TESTING OPERATIONS BEGIN.
- CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF RESIDENTS OR OTHER CONTRACTORS ON SITE.
- ANY DAMAGE TO THE EXISTING FACILITIES (CURB AND GUTTER, PAVEMENT, CONDUITS, LANDSCAPING, UTILITY LINES, ETC.) DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.
- REMOVAL OF THE EXISTING CURB AND GUTTER SHALL BE AS PER COA STD. DWG. 2415 (SAWCUT ONLY).
- WHEEL CHAIR RAMPS SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB AND GUTTER.
- THE FOLLOWING PERSONS SHALL BE NOTIFIED AT LEAST TWO BUSINESS DAYS PRIOR TO INSTALLING UTILITY CONDUIT CROSSINGS:

COMPANY PHONE CONTACT

COMPANY	PHONE	CONTACT
PNM	848-3374	TOM BACA
US WEST	245-6694	BECKY OLESEN
GAS CO.	761-7770	LEO APODACA
JONES	761-6200	YVETTE SUAZO

ENGINEER'S SEAL

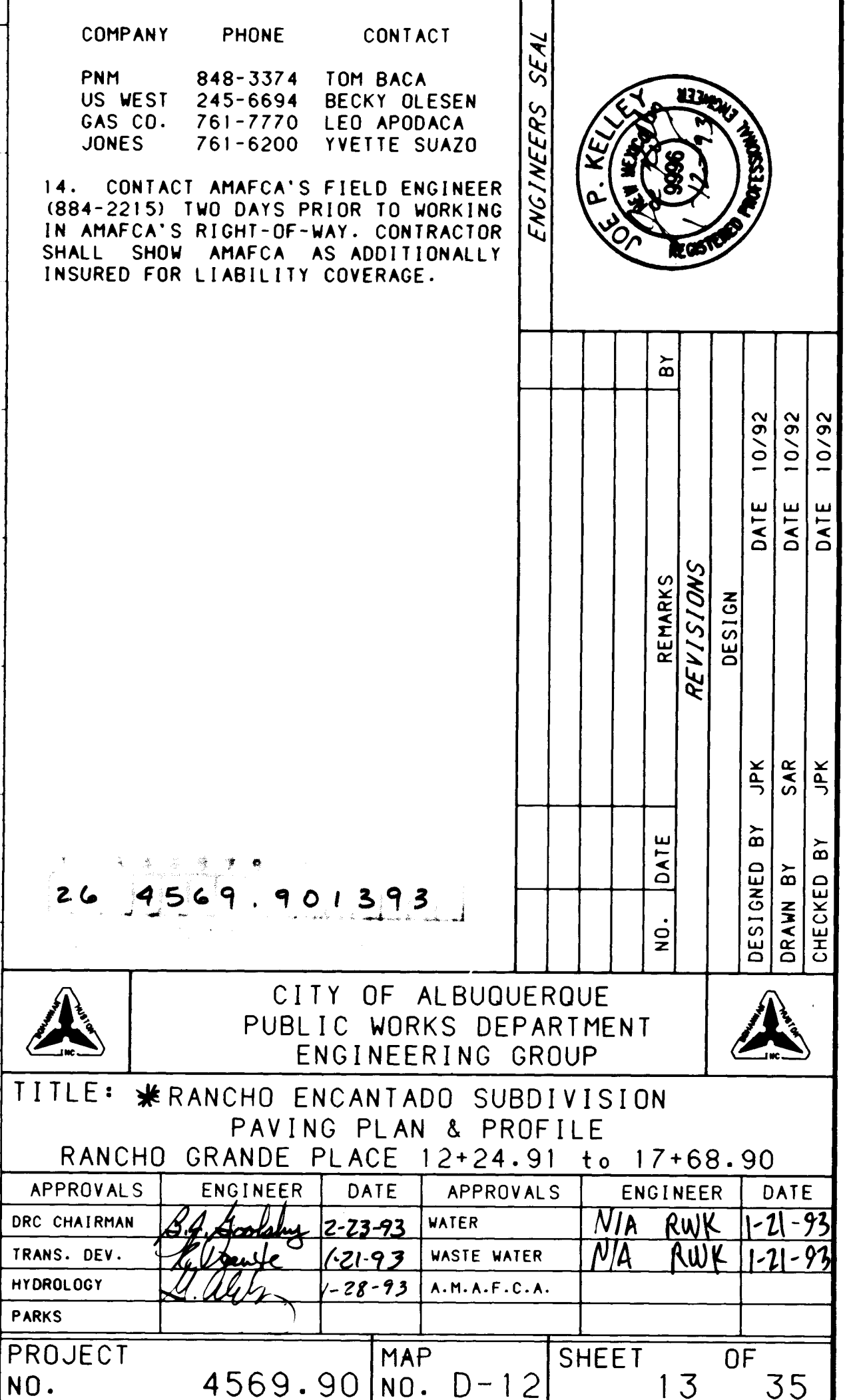
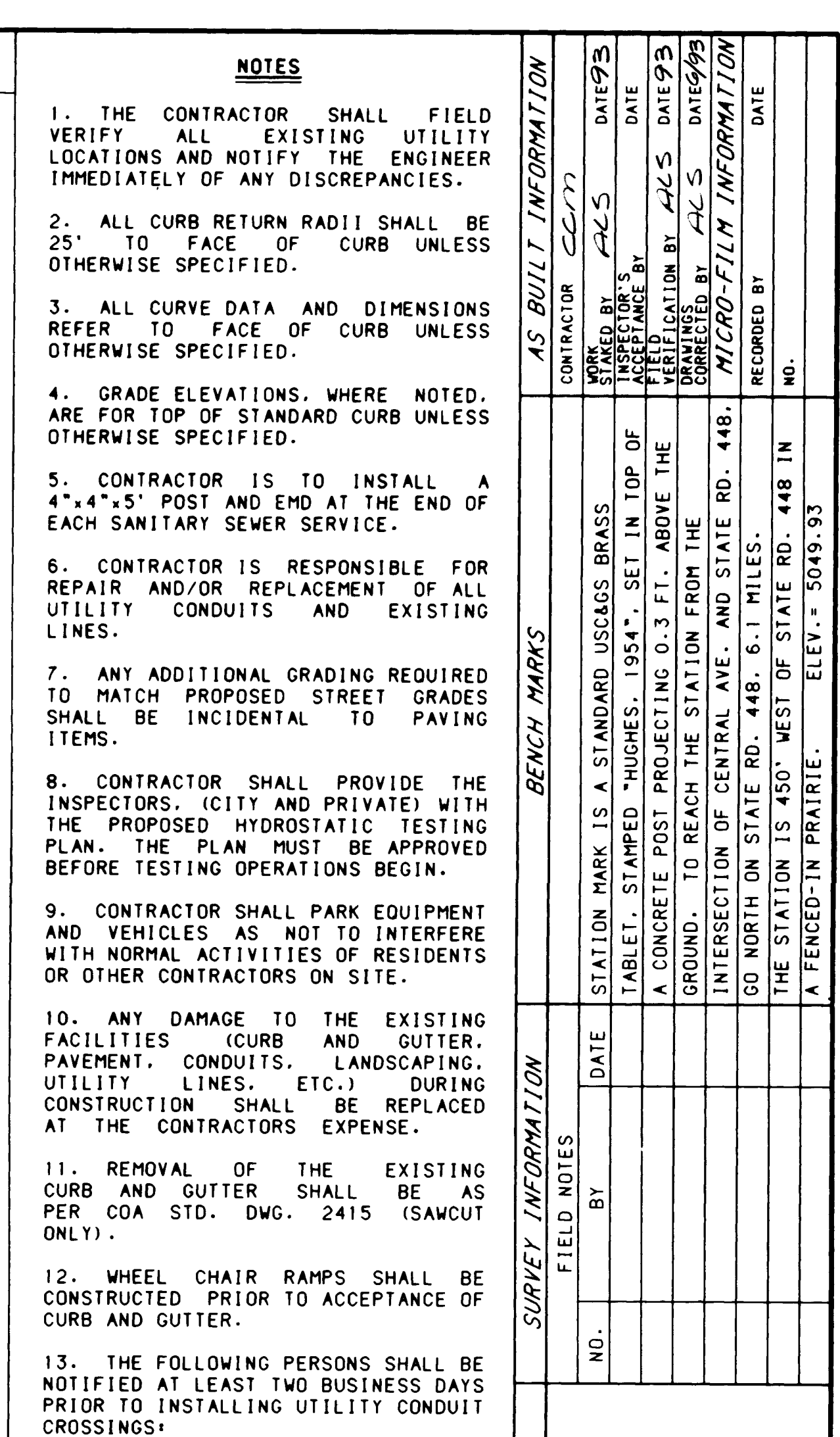
REVISIONS

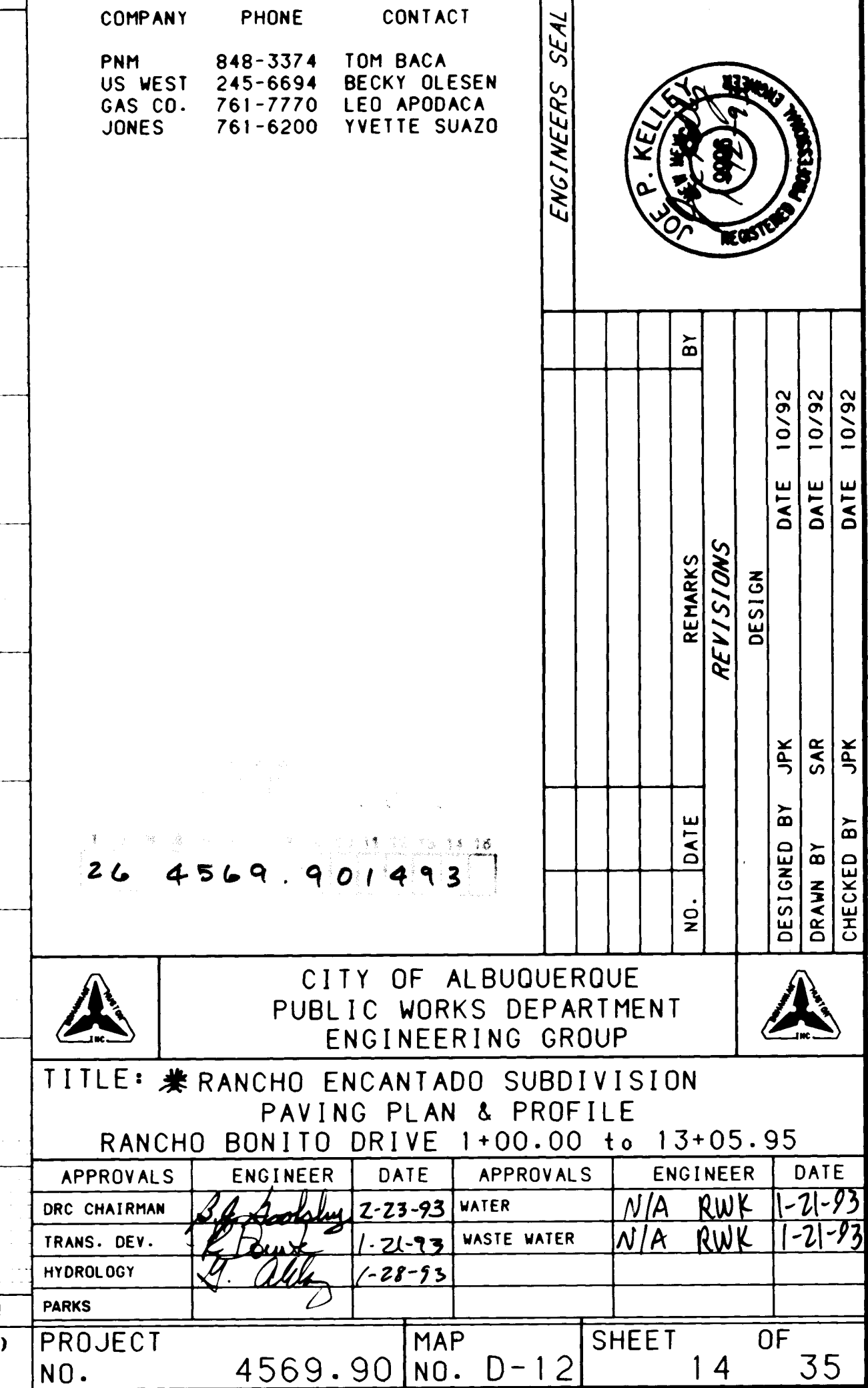
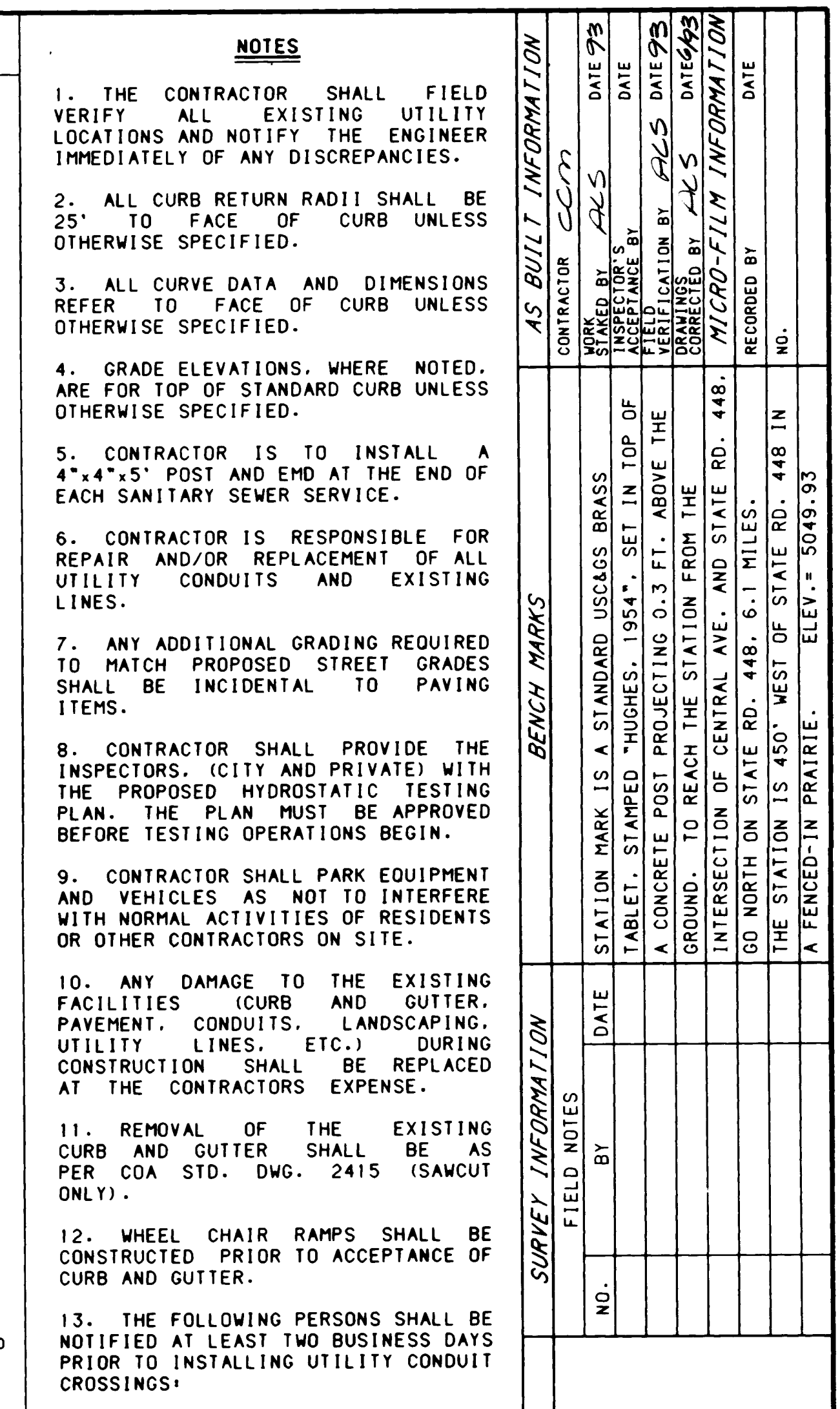
NO.	DATE	REMARKS
1	10/92	DESIGN
2	10/92	DESIGN
3	10/92	DESIGN

PROJECT NO. 4569.90

MAP NO. D-12

SHEET 12 OF 35





CUL-DE-SAC CURB DATA (CLOCKWISE)				
PT	TC	STATION & OFFSET	DELTA	
1	81.22	54.15.22, 29.37' LT.	34°10'15"	
2	81.40	52.66.42, 46.00' LT.	34°10'15"	
3	81.69	45.95.47, 52.96' LT.	34°10'15"	
4	81.99	45.65.89, 47.85' LT.	34°10'15"	
5	82.20	57.99.50, 32.43' LT.	34°10'15"	
6	82.23	58.2.10, 12.03' LT.	34°10'15"	
7	82.09	57.28.80, 6.31' RT.	34°10'15"	
8	81.82	54.84.80, 16.25' RT.	34°10'15"	
9	81.51	54.34.32, 14.37' RT.	34°10'15"	

R=35.00', L=20.87' (BETWEEN POINTS)

STA 13+05.95 RANCHO BONITO DR= STA 14+57.95 RANCHO BONITO DR= STA 12+24.91 RANCHO GRANDE PL.= STA 34+21.96 BUTTERFIELD TR.

RANCHO GRANDE PL. SEE SHEET 12 OF 35

BUTTERFIELD TRAIL SEE SHEET 17 OF 35

RANCHO GRANDE PL. SEE SHEET 13 OF 35

BUTTERFIELD TRAIL SEE SHEET 17 OF 35

RANCHO GRANDE PL. SEE SHEET 13 OF 35

STA 1+38.00 TO 1+88.00 50' TRANSITION FROM NO CROWN TO CROWN

STA 1+88.00 TO 2+38.00 50' TRANSITION FROM CROWN TO NO CROWN

NOTE:
BUILD STD. CURB & GUTTER 21" RT. & LT.
BUILD MEDIAN CURB & GUTTER 1' RT. & LT.
BUILD 4' SIDEWALK RT. & LT.

TC FL
1 50.23/49.56
2 49.75/49.75
3 50.62/49.95

TC FL
1 49.90/49.23
2 49.71/48.91
3 49.25/48.58

D=90°00'00"
L=39.27'
R=25.00'

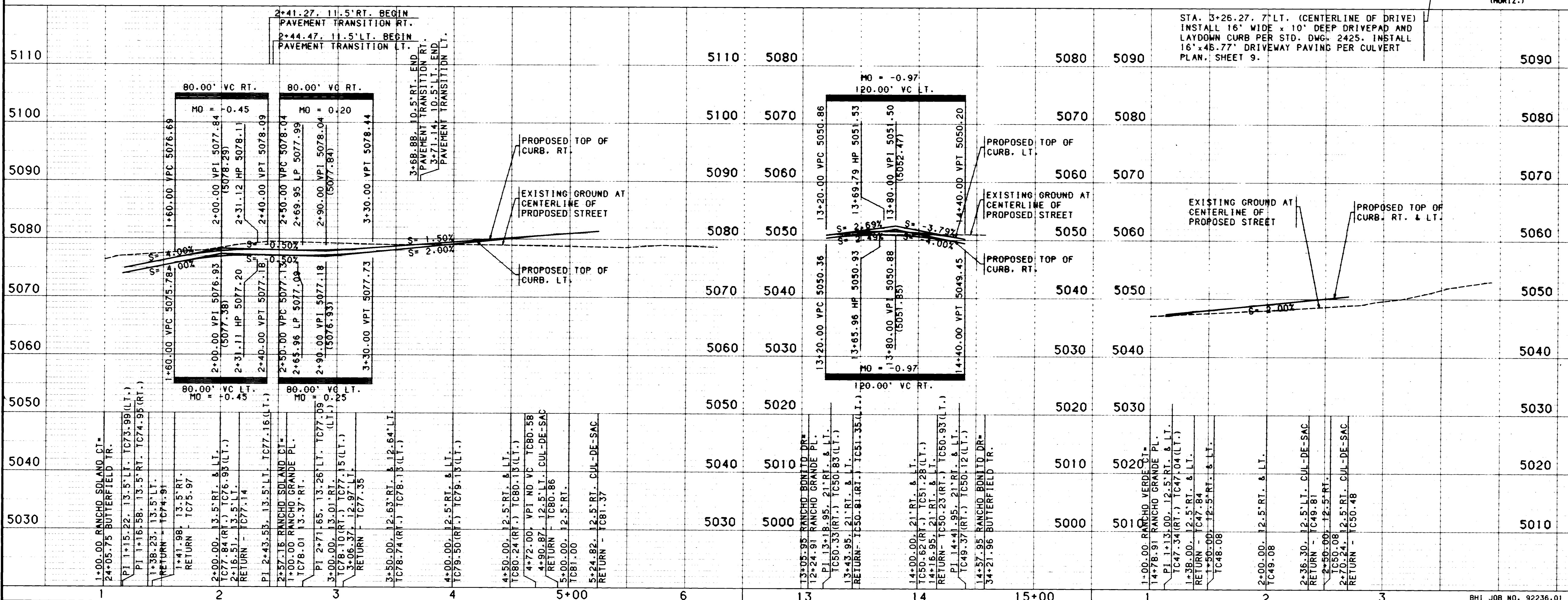
D=90°00'00"
L=39.27'
R=25.00'

TC FL
1 47.94/47.36
2 47.41/47.41
3 47.88/47.46

D=90°00'00"
L=39.27'
R=35.00'

NOTE:
TRANSITION FROM STD. CURB TO ROLL CURB THROUGH WHEEL CHAIR RAMPS
RANCHO VERDE= ROLL CURB
RANCHO GRANDE= STD. CURB

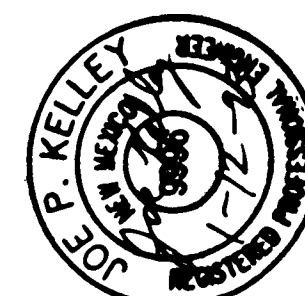
RANCHO VERDE CT.



SCALE: 1" = 50' (HORIZ.)
1" = 10' (VERT.)

COMPANY	PHONE	CONTACT
PNM	848-3374	TOM BACA
US WEST	245-6694	BECKY OLESEN
GAS CO.	761-7770	LEO APODACA
JONES	761-6200	YVETTE SUAZO

COMPANY	PHONE	CONTACT
PNM	848-3374	TOM BACA
US WEST	245-6694	BECKY OLESEN
GAS CO.	761-7770	LEO APODACA
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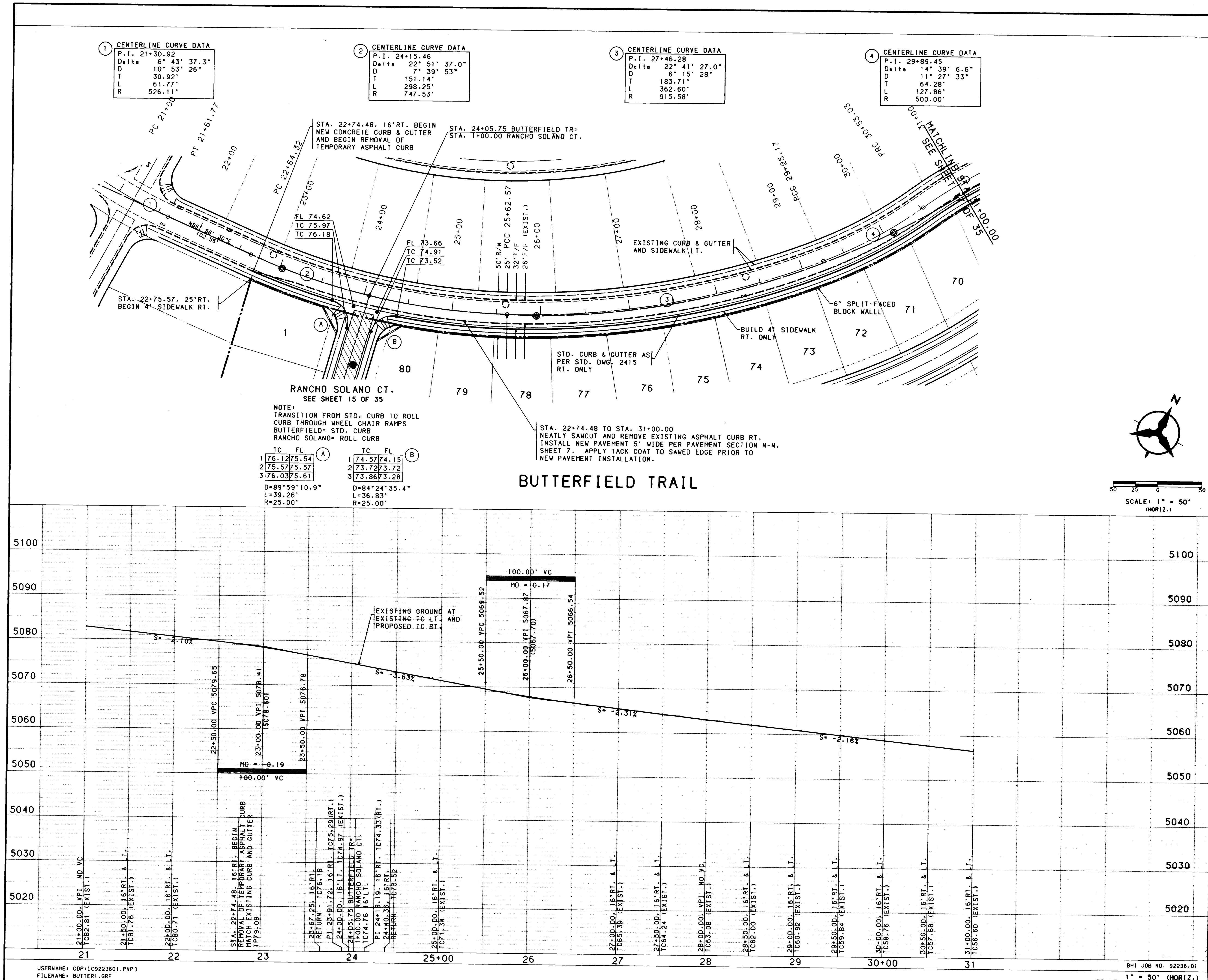


	CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
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TITLE:	*RANCHO ENCANTADO SUBDIVISION		
	PAVING PLAN & PROFILE		

RANCHO SOLANO CT. RANCHO BONITO DR. & RANCHO VERDE CT					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRG CHAIRMAN	<i>R. J. Smith</i>	2-23-93	WATER	N/A	RWK 1-21-9
TRANS. DEV.	<i>G. Smith</i>	1-21-93	WASTE WATER	N/A	RWK 1-21-9
HYDROLOGY	<i>L. Allen</i>	1-28-93			
DRYING					

PROJECT NO.	4569.90	MAP NO.	D-12	SHEET	15	OF	35
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NOTES

- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
- ALL CURB RETURN RADII SHALL BE 25' TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.
- ALL CURVE DATA AND DIMENSIONS REFER TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.
- GRADE ELEVATIONS, WHERE NOTED, ARE FOR TOP OF STANDARD CURB UNLESS OTHERWISE SPECIFIED.
- CONTRACTOR IS TO INSTALL A 4"x4"x5' POST AND END AT THE END OF EACH SANITARY SEWER SERVICE.
- CONTRACTOR IS RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ALL UTILITY CONDUITS AND EXISTING LINES.
- ANY ADDITIONAL GRADING REQUIRED TO MATCH PROPOSED STREET GRADES SHALL BE INCIDENTAL TO PAVING ITEMS.
- CONTRACTOR SHALL PROVIDE THE INSPECTORS, (CITY AND PRIVATE) WITH THE PROPOSED HYDROSTATIC TESTING PLAN. THE PLAN MUST BE APPROVED BEFORE TESTING OPERATIONS BEGIN.
- CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF RESIDENTS OR OTHER CONTRACTORS ON SITE.
- ANY DAMAGE TO THE EXISTING FACILITIES (CURB AND GUTTER, PAVEMENT, CONDUITS, LANDSCAPING, UTILITY LINES, ETC.) DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.
- REMOVAL OF THE EXISTING CURB AND GUTTER SHALL BE AS PER COA STD. DWG. 2415 (SAWCUT ONLY).
- WHEEL CHAIR RAMPS SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB AND GUTTER.
- THE FOLLOWING PERSONS SHALL BE NOTIFIED AT LEAST TWO BUSINESS DAYS PRIOR TO INSTALLING UTILITY CONDUIT CROSSINGS:

COMPANY PHONE CONTACT
PNM 848-3374 TOM BACA
US WEST 245-6694 BECKY OLESEN
GAS CO. 761-7770 LEO APODACA
JONES 761-6200 YVETTE SUAZO

26 4569.901693

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: RANCHO ENCANTADO SUBDIVISION
PAVING PLAN & PROFILE
BUTTERFIELD TRAIL 21+00.00 to 31+00.00

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN		2-23-93	WATER	N/A RWK	1-21-93
TRANS. DEV.		1-21-93	WASTE WATER	N/A RWK	1-21-93
HYDROLOGY		1-28-93			

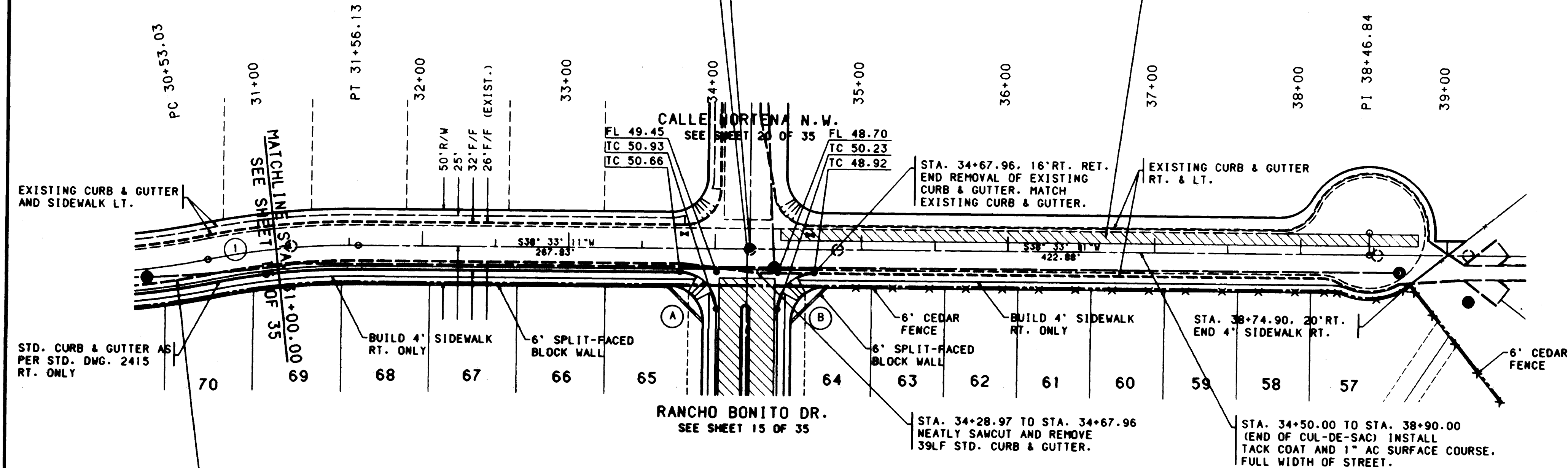
PROJECT NO. 4569.90 MAP NO. D-12 SHEET 16 OF 35

CENTERLINE CURVE DATA	
P.I.	31+04.76
Delta	11° 48' 51.7"
D	11° 27' 33"
T	51.73'
L	103.10'
R	500.00'

STA. 34+21.96 BUTTERFIELD TR.
STA. 14+57.95 RANCHO BONITO DR.

STA. 34+23.96 BUTTERFIELD TR.
STA. 22+10.64 CALLE NORTENA N.W.

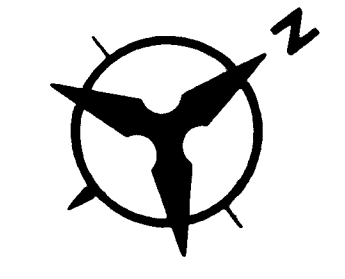
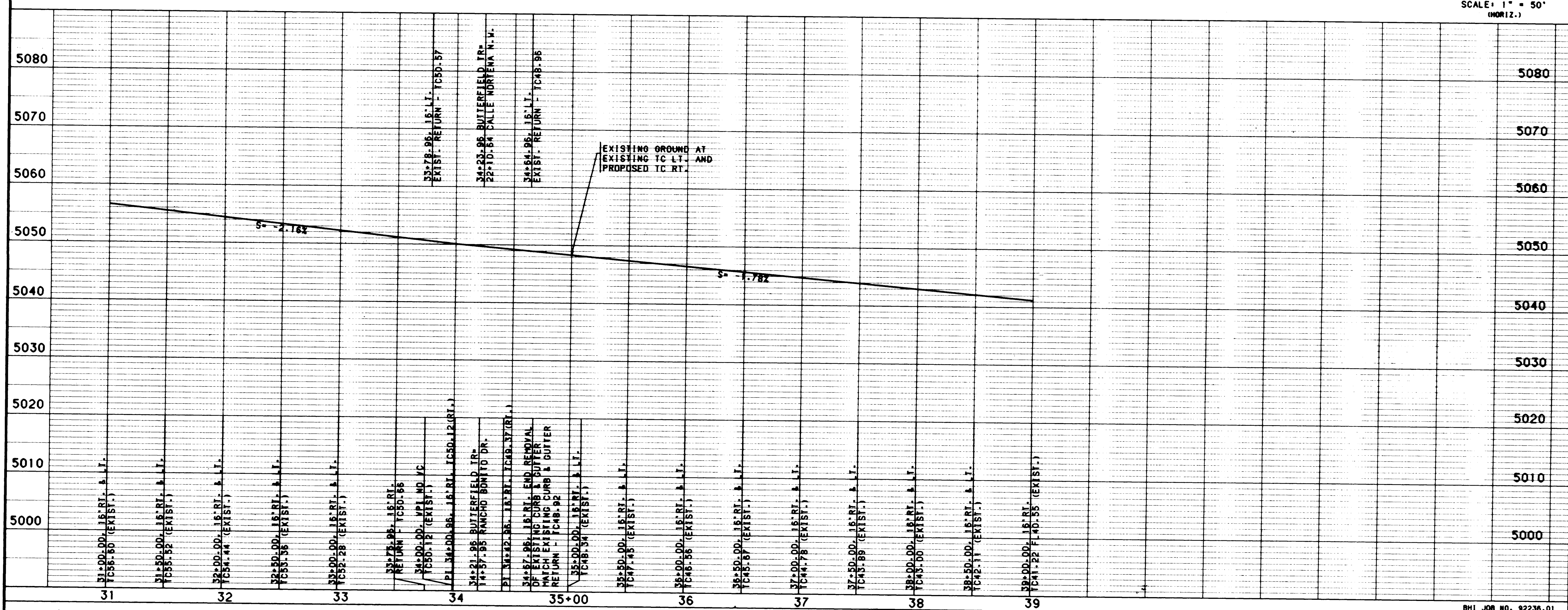
STA. 34+45.00 TO STA. 38+80.00, 6' LT. TO 14' LT.
NEATLY SAWCUT AND REMOVE EXISTING PAVEMENT. AFTER
WATERLINE INSTALLATION INSTALL NEW PAVEMENT PER
RESIDENTIAL PAVEMENT SECTION, SHEET 11, INCLUDING
6" SUBGRADE, 4" SUBBASE, AND 2" AC BASE COURSE.



STA. 31+00.00 TO STA. 34+28.97
NEATLY SAWCUT AND REMOVE EXISTING ASPHALT CURB RT.
INSTALL NEW PAVEMENT 5' WIDE PER PAVEMENT SECTION N-W.
SHEET 7. APPLY TACK COAT TO SAVED EDGE PRIOR TO
NEW PAVEMENT INSTALLATION.

TC	FL	
1	50.73	50.08
2	50.13	50.13
3	50.86	50.19
D	90°00'00"	
L	39.27'	
R	25.00'	

BUTTERFIELD TRAIL

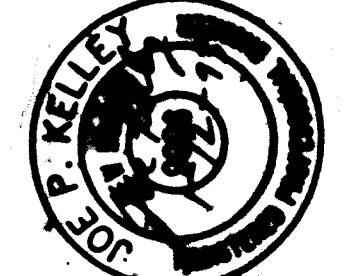


SCALE: 1" = 50'
(HORIZ.)

- NOTES**
1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
 2. ALL CURB RETURN RADIUS SHALL BE 25' TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.
 3. ALL CURVE DATA AND DIMENSIONS REFER TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.
 4. GRADE ELEVATIONS, WHERE NOTED, ARE FOR TOP OF STANDARD CURB UNLESS OTHERWISE SPECIFIED.
 5. CONTRACTOR IS TO INSTALL A 4"x4"x5" POST AND END AT THE END OF EACH SANITARY SEWER SERVICE.
 6. CONTRACTOR IS RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ALL UTILITY CONDUITS AND EXISTING LINES.
 7. ANY ADDITIONAL GRADING REQUIRED TO MATCH PROPOSED STREET GRADES SHALL BE INCIDENTAL TO PAYING ITEMS.
 8. CONTRACTOR SHALL PROVIDE THE INSPECTORS, (CITY AND PRIVATE) WITH THE PROPOSED HYDROSTATIC TESTING PLAN. THE PLAN MUST BE APPROVED BEFORE TESTING OPERATIONS BEGIN.
 9. CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF RESIDENTS OR OTHER CONTRACTORS ON SITE.
 10. ANY DAMAGE TO THE EXISTING FACILITIES (CURB AND GUTTER, PAVEMENT, CONDUITS, LANDSCAPING, UTILITY LINES, ETC.) DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.
 11. REMOVAL OF THE EXISTING CURB AND GUTTER SHALL BE AS PER COA STD. DWG. 2415 (SAWCUT ONLY).
 12. WHEEL CHAIR RAMPS SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB AND GUTTER.
 13. THE FOLLOWING PERSONS SHALL BE NOTIFIED AT LEAST TWO BUSINESS DAYS PRIOR TO INSTALLING UTILITY CONDUIT CROSSINGS:

COMPANY	PHONE	CONTACT
PNM	848-3374	TOM BACA
US WEST	245-6694	BECKY OLESEN
GAS CO.	761-7770	LEO APODACA
JONES	761-6200	YVETTE SUAZO

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEERS SEAL	
CONTRACTOR	DATE	STATION MARK IS A STANDARD USGCS BRASS	DATE	NO.	BY	REMARKS	DESIGNED BY
INSPECTOR'S	DATE	TABLET, STAMPED "HUGHES, 1954", SET IN TOP OF	DATE				DRAWN BY
FIELD	DATE	A CONCRETE POST PROJECTING 0.3 FT. ABOVE THE	DATE				CHECKED BY
LOCATION	DATE	GROUND. TO REACH THE STATION FROM THE	DATE				
VERIFIED BY	DATE	INTERSECTION OF CENTRAL AVE. AND STATE RD. 448.	DATE				
DATE	DATE	60 NORTH ON STATE RD. 448, 6.1 MILES.	DATE				
		THE STATION IS 450' WEST OF STATE RD. 448 IN	DATE				
		A FENCED-IN PRAIRIE. ELEV. = 5049.93	DATE				



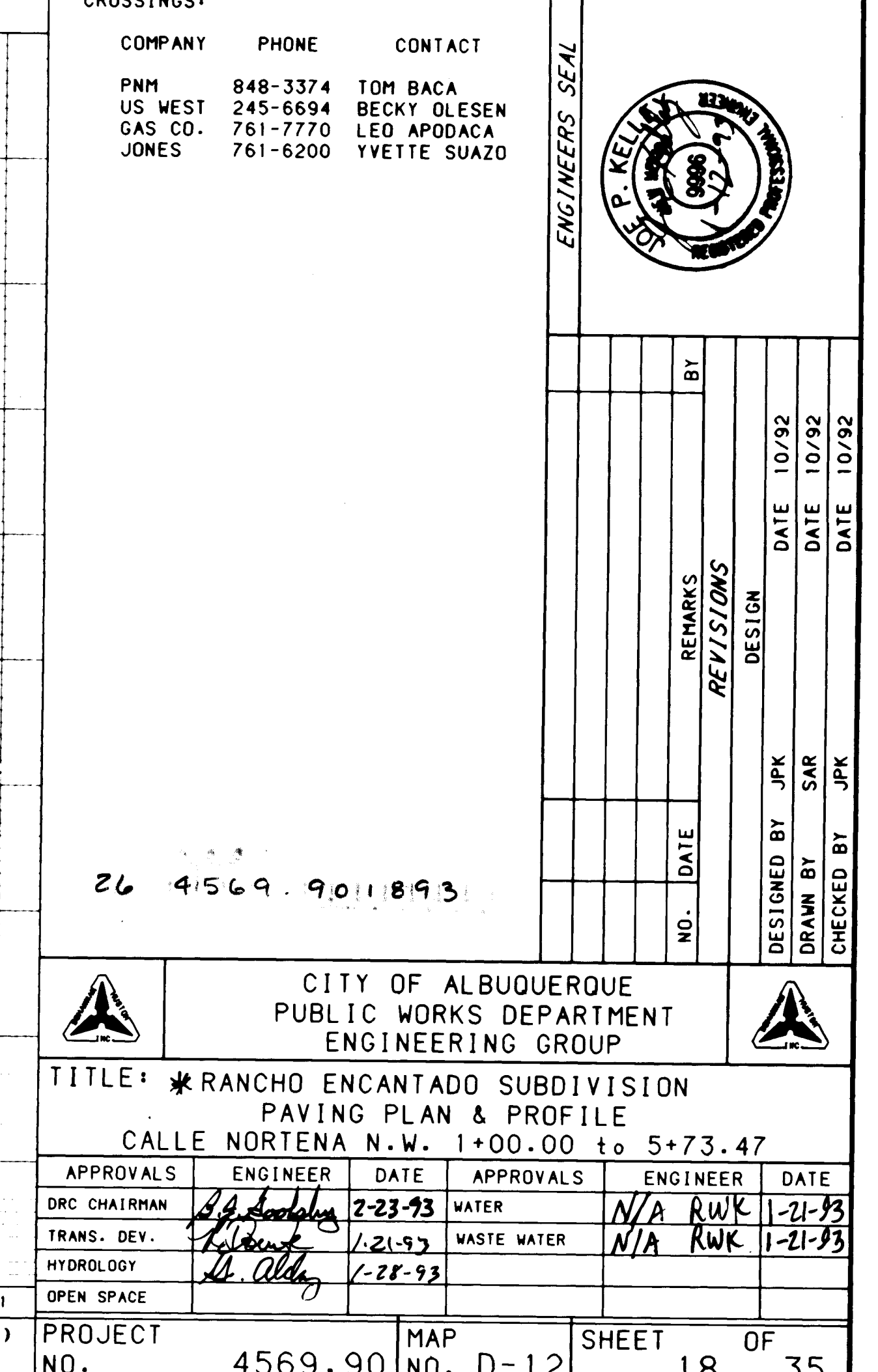
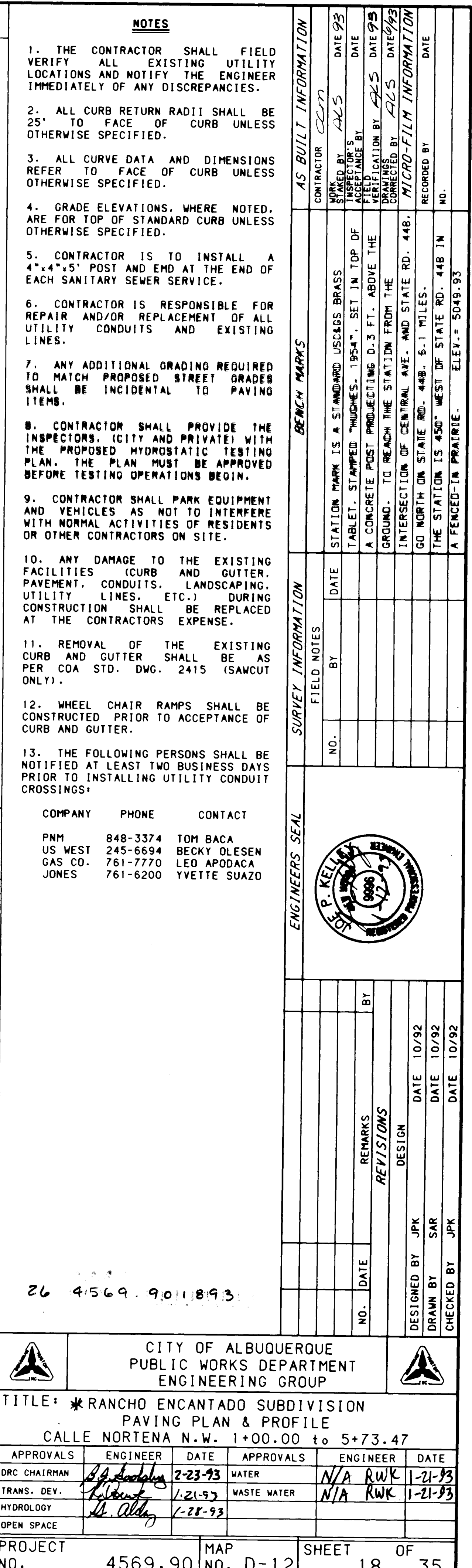
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: *RANCHO ENCANTADO SUBDIVISION PAVING PLAN & PROFILE BUTTERFIELD TRAIL 31+00.00 TO 38+46.84					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>[Signature]</i>	2-23-93	WATER	N/A RWK	1-21-93
TRANS. DEV.	<i>[Signature]</i>	1-21-93	WASTE WATER	N/A RWK	1-21-93
HYDROLOGY	<i>[Signature]</i>	1-22-93			
PROJECT NO. 4569.90		MAP NO. D-12		SHEET 17 OF 35	

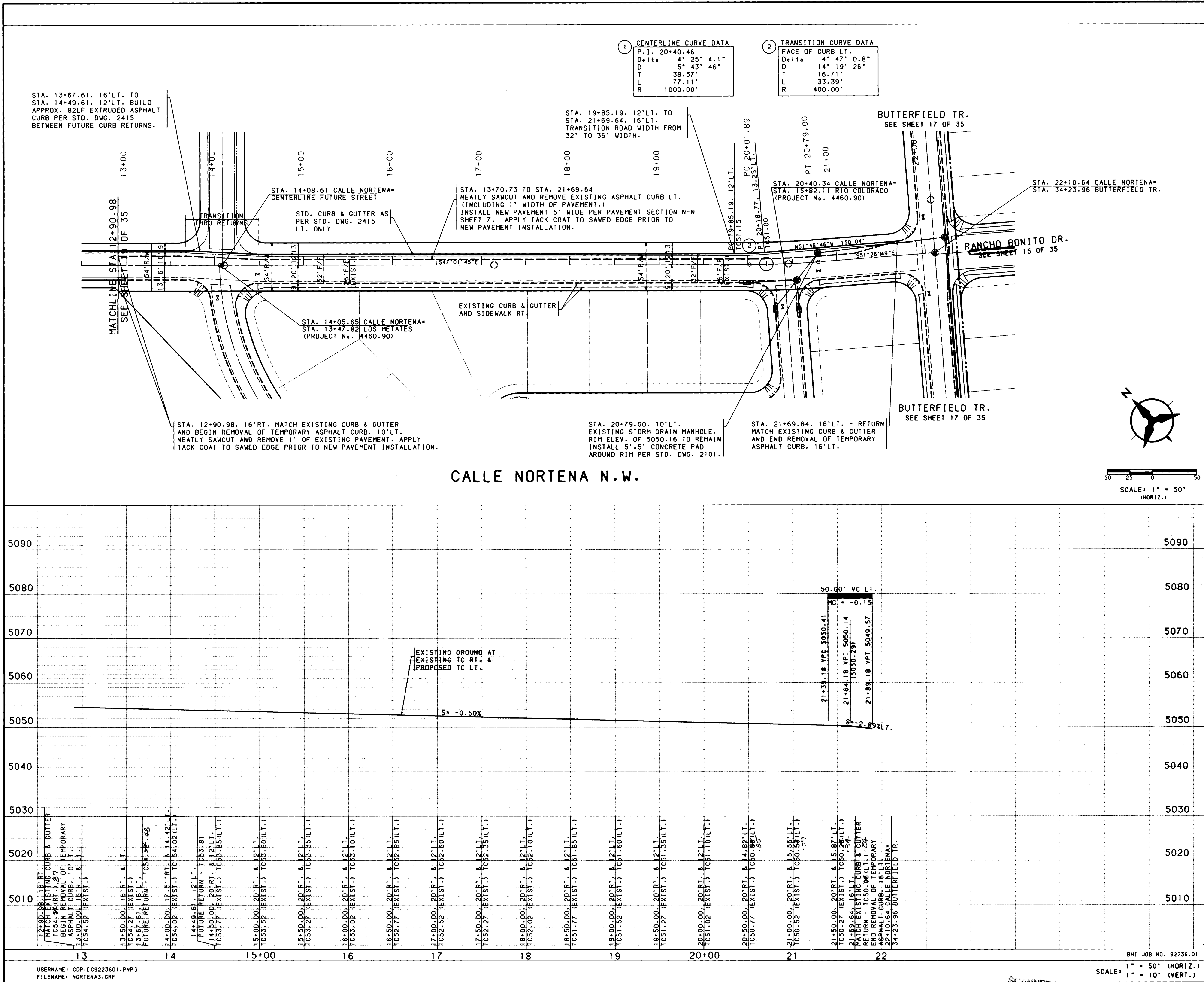
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FILENAME: BUTTER2.DWG

BHI JOB NO. 92236.01

SCALE: 1" = 50' (HORIZ.)
1" = 10' (VERT.)

SCANNED BY
BY LASON





NOTES

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2. ALL CURB RETURN RADIi SHALL BE 25' TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.

3. ALL CURVE DATA AND DIMENSIONS REFER TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.

4. GRADE ELEVATIONS, WHERE NOTED, ARE FOR TOP OF STANDARD CURB UNLESS OTHERWISE SPECIFIED.

5. CONTRACTOR IS TO INSTALL A 4"x4"x5' POST AND END AT THE END OF EACH SANITARY SEWER SERVICE.

6. CONTRACTOR IS RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ALL UTILITY CONDUITS AND EXISTING LINES.

7. ANY ADDITIONAL GRADING REQUIRED TO MATCH PROPOSED STREET GRADES SHALL BE INCIDENTAL TO PAVING ITEMS.

8. CONTRACTOR SHALL PROVIDE THE INSPECTORS, (CITY AND PRIVATE) WITH THE PROPOSED HYDROSTATIC TESTING PLAN. THE PLAN MUST BE APPROVED BEFORE TESTING OPERATIONS BEGIN.

9. CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF RESIDENTS OR OTHER CONTRACTORS ON SITE.

10. ANY DAMAGE TO THE EXISTING FACILITIES (CURB AND GUTTER, PAVEMENT, CONDUITS, LANDSCAPING, UTILITY LINES, ETC.) DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.

11. REMOVAL OF THE EXISTING CURB AND GUTTER SHALL BE AS PER COA STD. DWG. 2415 (SAWCUT ONLY).

12. WHEEL CHAIR RAMPS SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB AND GUTTER.

13. THE FOLLOWING PERSONS SHALL BE NOTIFIED AT LEAST TWO BUSINESS DAYS PRIOR TO INSTALLING UTILITY CONDUIT CROSSINGS:

COMPANY	PHONE	CONTACT
PNM	848-3374	TOM BACA
US WEST	245-6694	BECKY OLESEN
GAS CO.	761-7770	LEO APODACA
JONES	761-6200	YVETTE SUAZO

AS BUILT INFORMATION

CONTRACTOR	WORKED BY	DATE
CCM	ALS	7/3

BENCH MARKS

STATION MARK IS A STANDARD USCSGS BRASS TABLET, STAMPED "HUGHES, 1954", SET IN TOP OF A CONCRETE POST PROJECTING 0.3 FT. ABOVE THE GROUND. TO REACH THE STATION FROM THE INTERSECTION OF CENTRAL AVE. AND STATE RD. 448, GO NORTH ON STATE RD. 448, 6.1 MILES. THE STATION IS 450' WEST OF STATE RD. 448 IN A FENCED-IN PRAIRIE. ELEV. = 5049.93
--

ENGINEERS SEAL

P. KELLEY
REGISTERED PROFESSIONAL ENGINEER
NO. 10000
STATE OF NEW MEXICO

REVISIONS

NO.	DATE	REMARKS
1	10/92	DESIGN
2	10/92	DESIGN

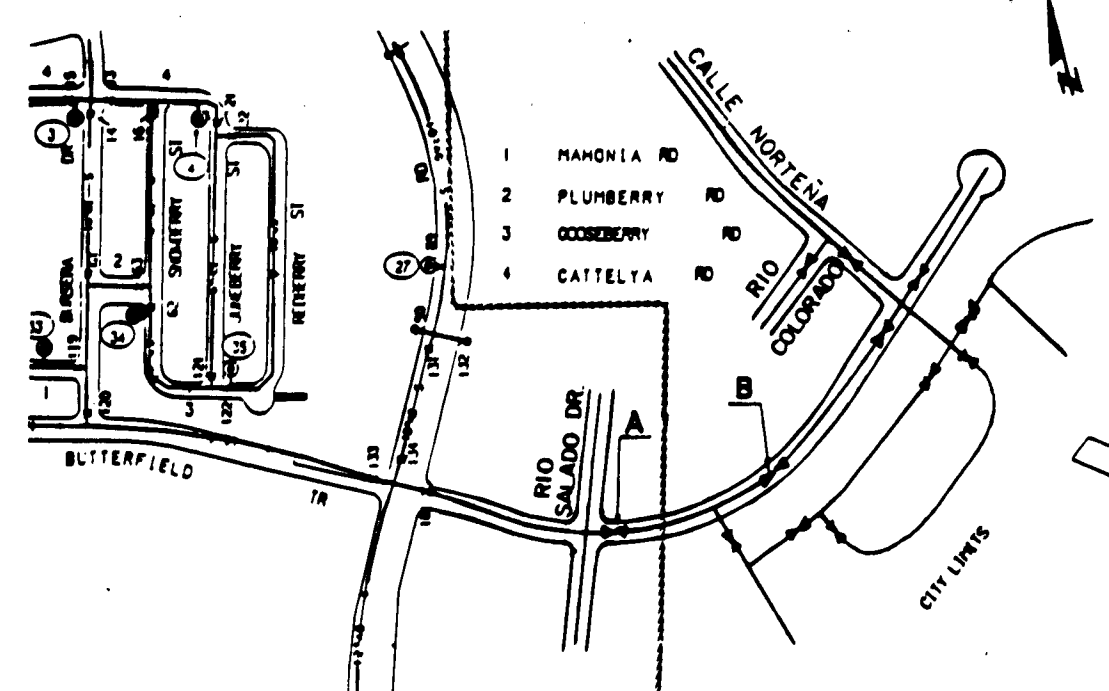
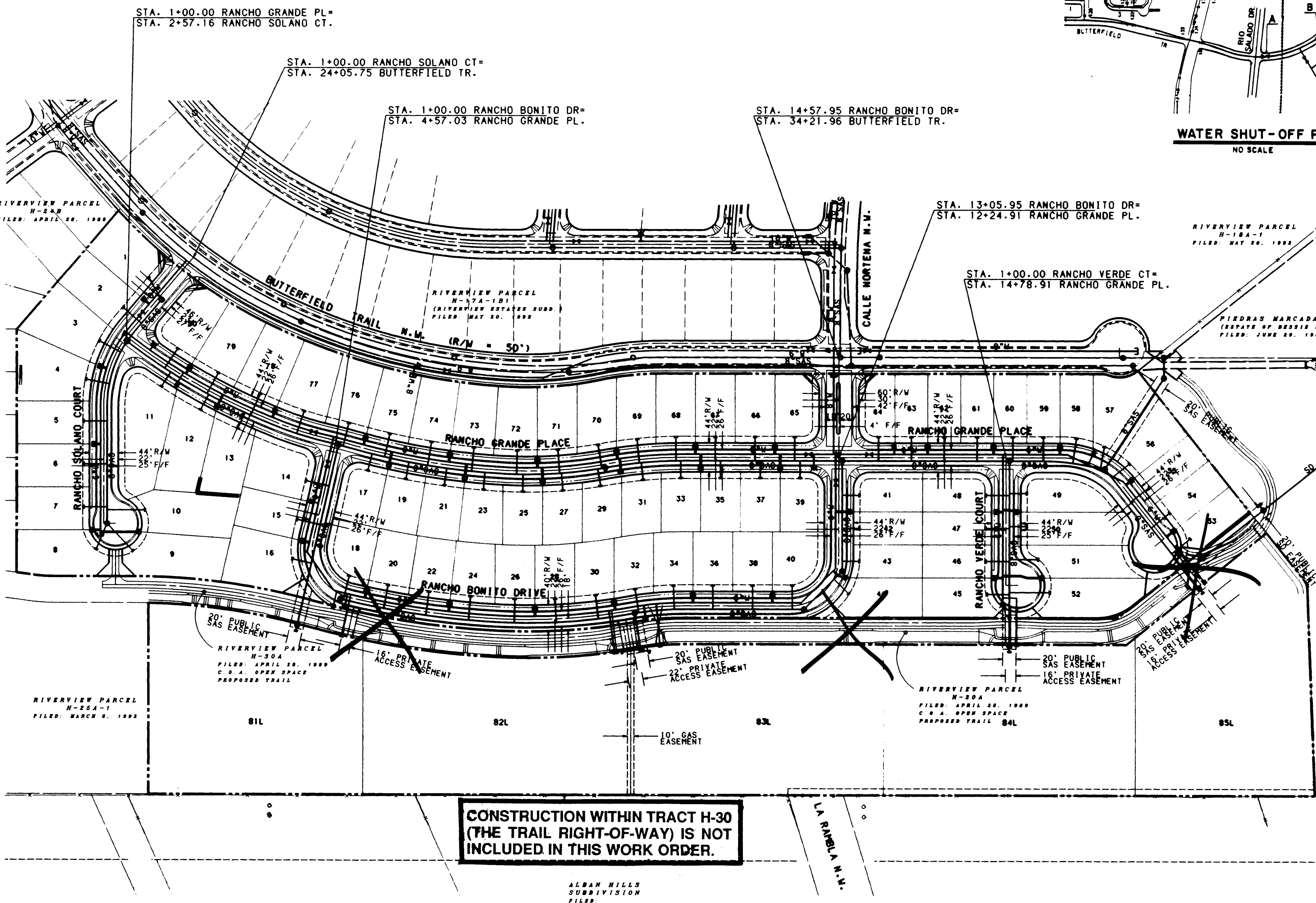
DESIGNED BY JPK
DRAWN BY SAR
CHECKED BY JPK

**CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP**

**TITLE: * RANCHO ENCANTADO SUBDIVISION
PAVING PLAN & PROFILE
CALLE NORTENA N.W. 12+90.98 to 22+10.64**

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>[Signature]</i>	2-23-93	WATER	N/A RWK	1-21-93
TRANS. DEV.	<i>[Signature]</i>	1/21/93	WASTE WATER	N/A RWK	1-21-93
HYDROLOGY	<i>[Signature]</i>	1-23-93			

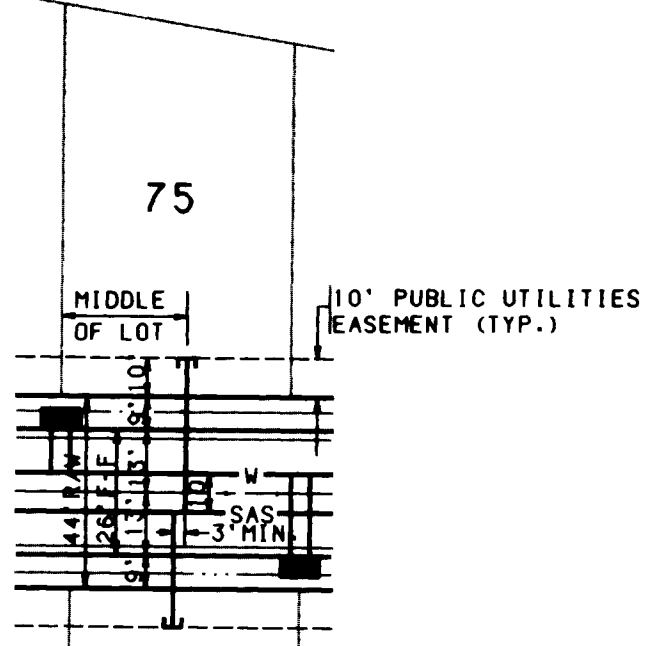
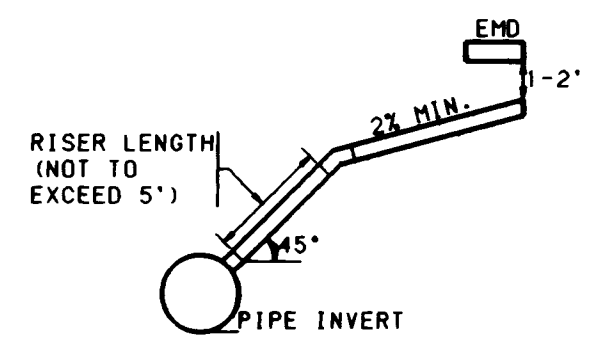
PROJECT NO. 4569.90
MAP NO. D-12
SHEET 20 OF 35



APPROVAL OF A LICENSE AGREE-
MENT BY AMAFCA IS REQUIRED
PRIOR TO CONSTRUCTION WITHIN
THE PIEDRAS MARCADAS DAM
RIGHT-OF-WAY.

LEGEND

PROJECT BOUNDARY	---
PROPOSED CURB & GUTTER	---
EXISTING CURB & GUTTER	---
FUTURE SIDEWALK	---
PROPOSED SANITARY SEWER MANHOLE	●
EXISTING SANITARY SEWER MANHOLE	○
PROPOSED FIRE HYDRANT	+
EXISTING FIRE HYDRANT	+
PROPOSED GATE VALVE	+
EXISTING GATE VALVE	+
EXISTING STORM DRAIN MANHOLE	○
PROPOSED SANITARY SEWER LINE	—SAS—
EXISTING SANITARY SEWER LINE	—SAS—
PROPOSED SANITARY SEWER SERVICE	—S—
PROPOSED WATER LINE	—W—
EXISTING WATER LINE	—W—
PROPOSED WATER METER SERVICE	—M—
EXISTING STORM DRAIN LINE	—SD—



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COMPANY	PHONE	CONTACT
PNM	848-3374	TOM BACA
US WEST	245-6374	ELFEBO GARCIA
GAS CO.	761-7770	LEO APDACA
JONES	761-6200	YVETTE SUAZO

WATER SHUT-OFF REQUIREMENTS

CONTRACTOR WILL BE RESPONSIBLE FOR THE TIMING AND COORDINATION OF THE WATER SHUT-OFF REQUIREMENTS IN CONJUNCTION WITH THE COMPLETION OF THIS PROJECT.

AT LEAST THREE (3) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONTACT PWD/WATER SYSTEMS DIVISION (887-8200) TO INITIATE IMPLEMENTATION OF THIS WATER SHUT-OFF PLAN.

WATER SHUT-OFF PLAN

CLOSE VALVES

A. RANCHO SOLANO COURT
NON-PRESSURE CONNECTION

B.

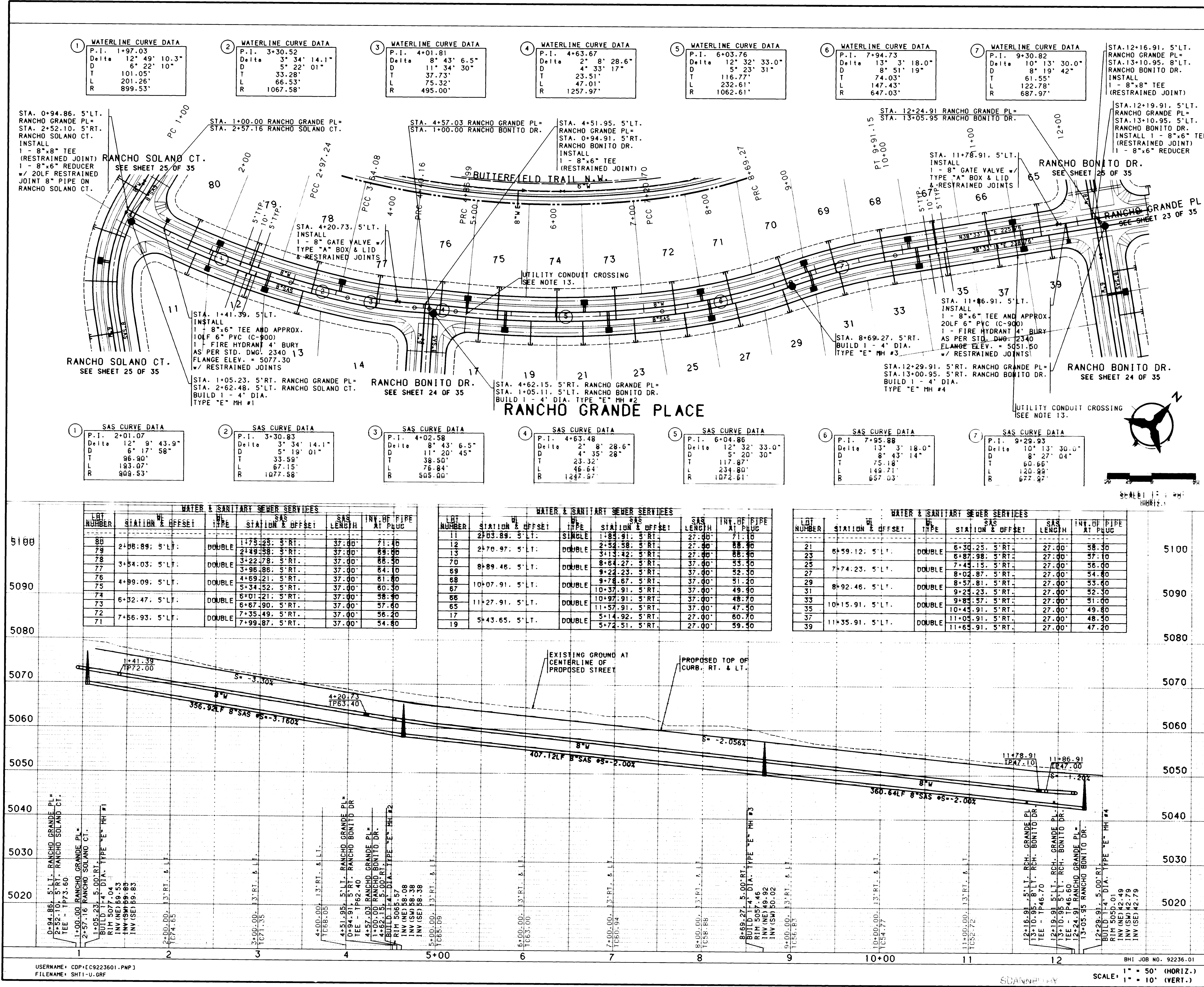
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: * RANCHO ENCANTADO SUBDIVISION
UTILITY PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	B.G. Luby	2-23-93	WATER	R.W. Kane	1-21-93
TRANS. DEV.	M.A. P.H.	1-21-93	WASTE WATER	R.W. Kane	1-21-93
HYDROLOGY	N/A	1-23-93			

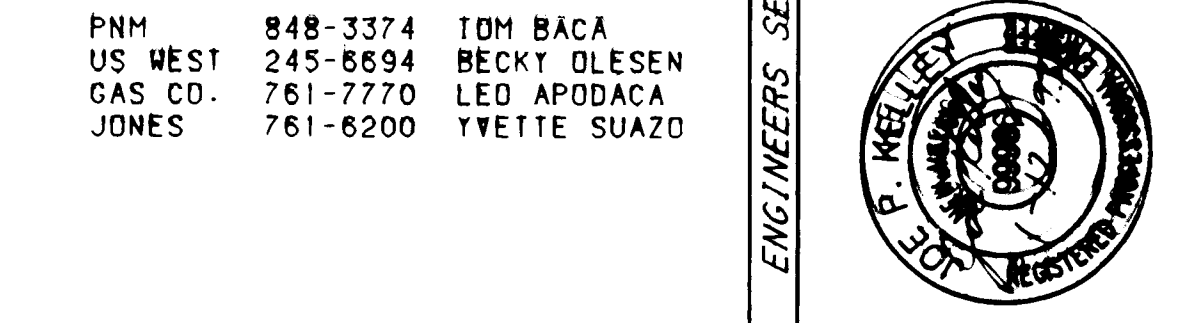
PROJECT NO.	4569.90	MAP NO.	D-12	SHEET	21	OF	35
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NOTES

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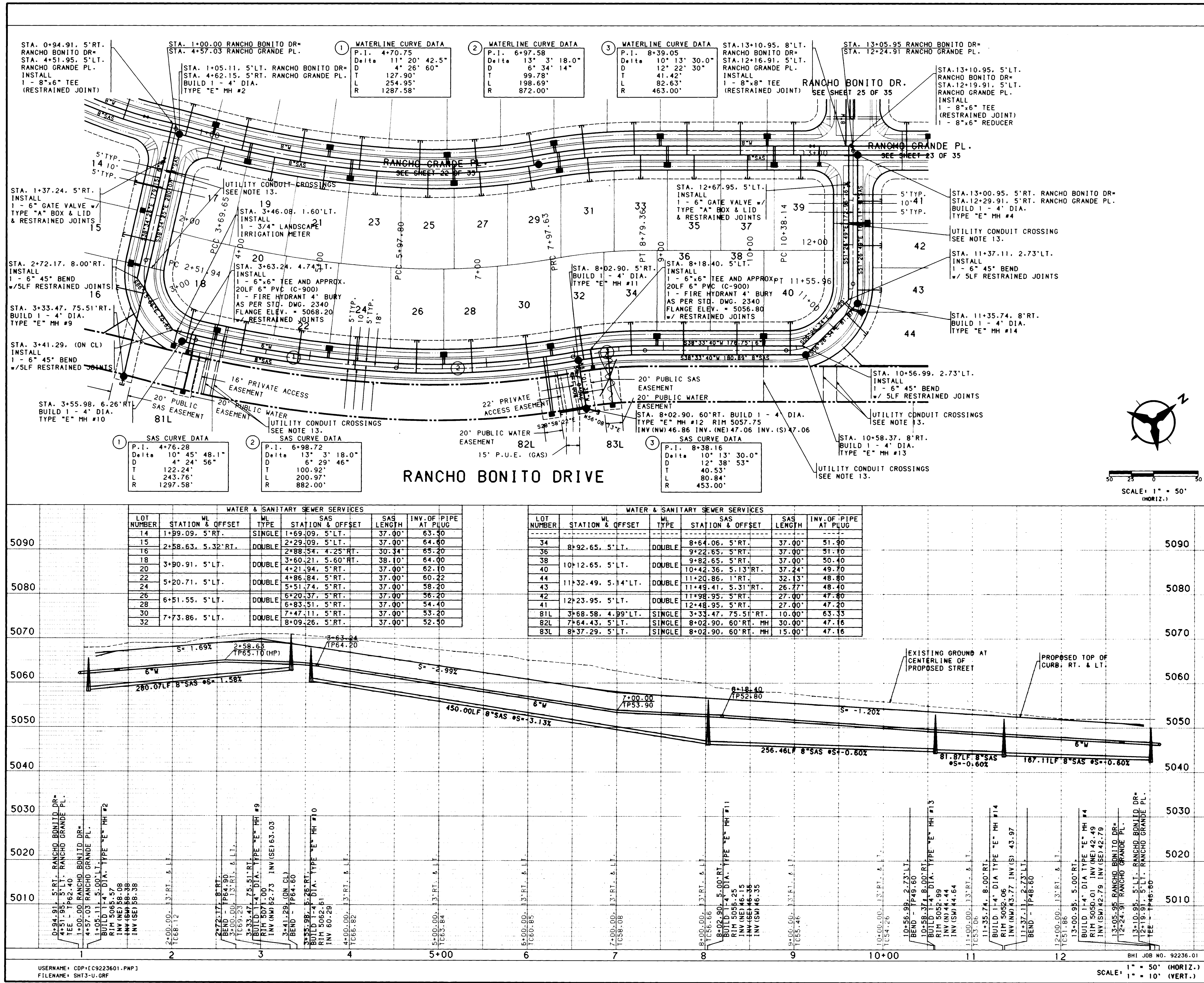
COMPANY PHONE CONTACT
PNM 848-3374 TOM BACA
US WEST 245-8694 BECKY OLESEN
CAS CO. 761-7770 LEO APODACA
JONES 761-6200 YVETTE SUAZO



CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: *RANCHO ENCANTADO SUBDIVISION
UTILITY PLAN & PROFILE
RANCHO GRANDE PLACE 1+00.00 to 12+24.91

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>[Signature]</i>	2-23-93	WATER	R.W. Kame	1-21-93
TRANS. DEV.	<i>[Signature]</i>	1-21-93	WASTE WATER	R.W. Kame	1-21-93
HYDROLOGY	<i>[Signature]</i>	1-21-93			



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AS BUILT INFORMATION

CONTRACTOR	DATE
DATE	DATE

BENCH MARKS

STATION MARK IS A STANDARD USGS BRASS	DATE
TABLET, STAMPED "HUGHES, 1954", SET IN TOP OF	DATE
A CONCRETE POST PROJECTING 0.3 FT. ABOVE THE	DATE
GROUND. TO REACH THE STATION FROM THE	DATE
INTERSECTION OF CENTRAL AVE. AND STATE RD. 448.	DATE
GO NORTH ON STATE RD. 448, 6.1 MILES.	DATE
THE STATION IS 450' WEST OF STATE RD. 448 IN	DATE
A FENCED-IN PRAIRIE.	DATE

SURVEY INFORMATION

NO.	DATE	BY
NO.	DATE	BY

ENGINEERS SEAL

PNM 848-3374 TOM BACA
US WEST 245-6694 BECKY OLESEN
GAS CO. 761-7770 LEO APDACA
JONES 761-6200 YVETTE SUAZO

JOSE P. KELLEY
REGISTERED ENGINEER

REVISIONS

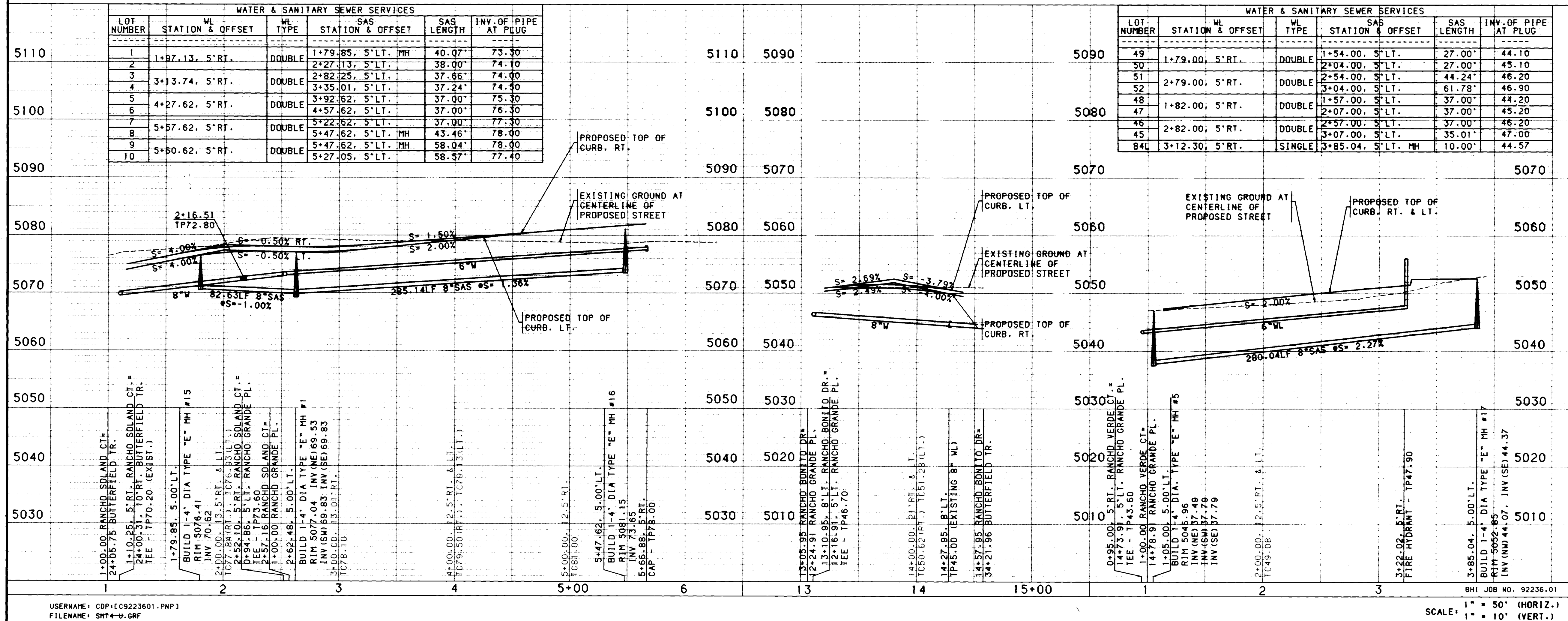
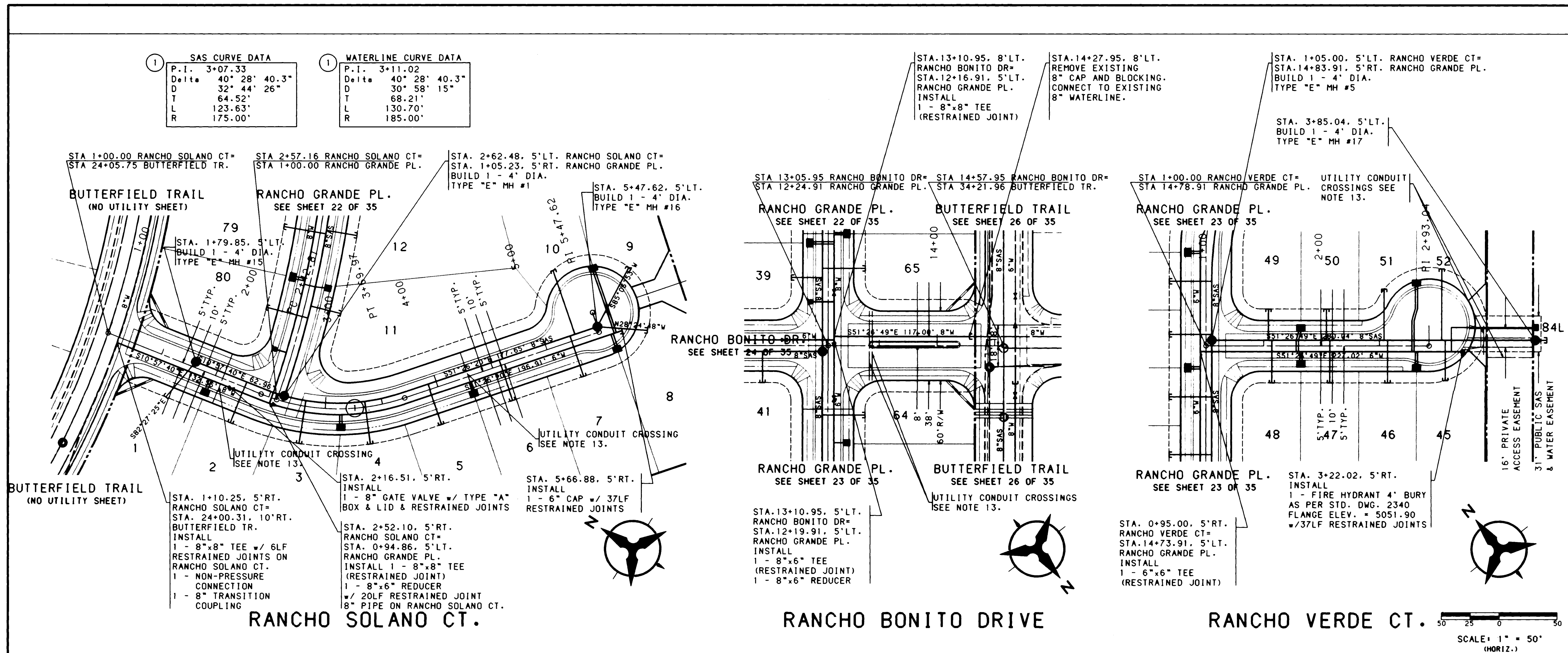
NO.	DATE	BY	REMARKS
DESIGNED BY	DATE	DESIGN	
DRAWN BY	DATE		
CHECKED BY	DATE		

**CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP**

TITLE: *RANCHO ENCANTADO SUBDIVISION
UTILITY PLAN & PROFILE
RANCHO BONITO DRIVE 1+00.00 TO 13+05.95

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRG CHAIRMAN	2-23-93		WATER	R. W. Kame	1-21-93
TRANS. DEV.	N/A	1-21-93	WASTE WATER	R. W. Kame	1-21-93
HYDROLOGY	N/A	1-23-93			

PROJECT NO. 4569.90 MAP NO. D-12 SHEET 24 OF 35



NOTES

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COMPANY PHONE CONTACT

PNM 848-3374 TOM BACA

US WEST 245-6694 BECKY OLESEN

GAS CO. 761-7770 LEO APADACA

JONES 761-6200 YVETTE SUAZO

26 4569.90 2593

CITY OF ALBUQUERQUE

PUBLIC WORKS DEPARTMENT

ENGINEERING GROUP

TITLE: RANCHO ENCANTADO SUBDIVISION

UTILITY PLAN & PROFILE

RANCHO SOLANO CT., RANCHO BONITO DR. & RANCHO VERDE CT.

APPROVALS ENGINEER DATE

DRG CHAIRMAN *[Signature]* 2-23-93 WATER R.W. Kane 1-21-93

TRANS. DEV. *[Signature]* 1-21-93 WASTE WATER R.W. Kane 1-21-93

HYDROLOGY *[Signature]* 1-23-93

PARKS

PROJECT NO. 4569.90

MAP NO. D-12

SHEET 25 OF 35

DATE 10/92

DATE 10/92

DATE 10/92

