CONSTRUCTION PLANS
FOR
RANCHO SERENO SUBDIVISION
UNIT II
ALBUQUERQUE, NEW MEXICO

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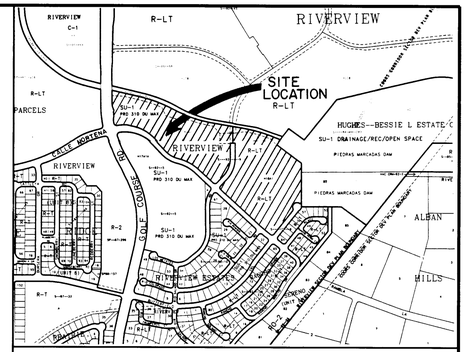

VICINITY MAP
NOT TO SCALE
C-12 & D-12

NOTICE TO CONTRACTORS

1. 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 AND SHALL INCLUDE UPDATE No. 4 REVISIONS, DELETIONS, AND ADDITIONS DATED JAN. 28, 1993.

2. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES.

3. 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.

4. 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.

5. 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.

6. 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.

RECORD DRAWING

I, A. E. Schumacher, Registered Professional Engineer and Land Surveyor in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.

A. E. Schumacher — Date 3/21/94
NMPE/LS No. 2360

STATE OF NEW MEXICO — ROBERT E. SCHUMACHER 2360 — REGISTERED PROFESSIONAL ENGINEER & LAND SURVEYOR

APPROVAL OF AS BUILT DRAWINGS
CHIEF CONSTRUCTION ENGINEER
7-28-94

REV	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE

APPROVAL OF REVISIONS

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26 4569.930/94

SCANNED BY
BY LASON

BHI JOB NO. 92287.01

8-30-93

BOHANNAN HUSTON INC.
ALBUQUERQUE, NEW MEXICO
ENGINEERS PLANNERS PHOTOGRAMMETRISTS

APPROVED FOR CONSTRUCTION
Oct 7, 1993 C.E.

PROJECT NUMBER
4569.93

SHEET 1 OF 28

USERNAME: CDP2:[C9228701.PAD]
FILENAME: TITLE.GRF

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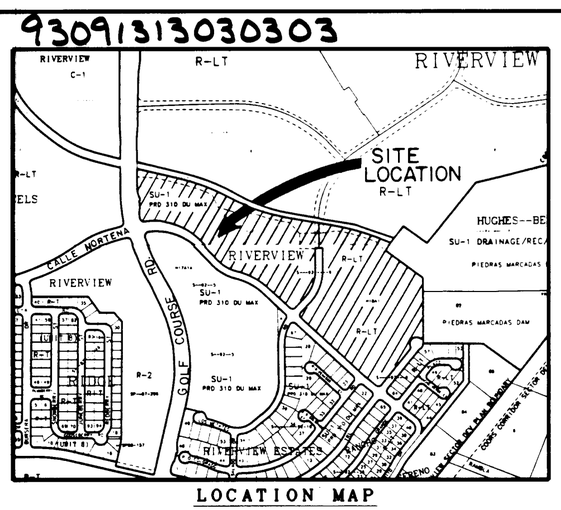


LOCATION MAP

ZONE ATLAS INDEX MAP No C-12 and D-12

NOT TO SCALE

SUBDIVISION DATA

1. DRB No. 92-440.
2. Zone Atlas Index Map No. C-12 and D-12
3. Gross Subdivision Acreage: 25.9766 Acres.
4. Date of Survey: September, 1993
5. Total number of Lots created: 112 Lots and 5 Tracts
6. This Plat shows existing easements.

NOTES

1. Bearings are New Mexico State Plane Grid Bearings (Central Zone).
2. Distances are ground distances.
3. City of Albuquerque Water and Sanitary Sewer Services to Lots 86-197 must be verified and coordinated with Public Works Department, City of Albuquerque.
4. This site is located within Sections 13 and 24, T11N, R2E, N.M.P.M.
5. Public street right-of-way dedicated by this Plat: 5.1361 Ac.
6. Lots 86 thru 197 inclusive are designated as "P1" Lots and shall conform to Item 1, Intermittent Parking Criteria. This requires four off street parking spaces per lot for homes containing four bedrooms or less, which can be provided by a two-car garage with driveway. Homes containing five bedrooms will require three-car garages.
7. Tract D is dedicated to the City of Albuquerque as a future Well Site.
8. Tracts B, C, and E are dedicated to the City of Albuquerque as Permanent Trails and Open Space Easements and are reserved for construction and maintenance of trails, open spaces, landscaping, recreational uses, utilities, access and service roads.
9. Centerline (in lieu of R/W monumentation to be installed at all centerline PC's, PT's, angle points and street intersections prior to acceptance of subdivision street improvements and will consist of a standard four inch (4") aluminum alloy cap stamped "City of Albuquerque", "Centerline Monumentation", "Survey Marker", "Do Not Disturb", "PLS 5978".
10. Tract A is to be acqired by AMAFCA for inclusion into the Piedras Marcadas Dam, in accordance with the agreement dated _____.

DISCLOSURE STATEMENT

The purpose of this Replat is to subdivide Parcel H-17A-1B2 and Parcel H-18A-1, dedicate public street right-of-way, grant easements, to vacate easements, and to vacate the blanket drainage easements upon Parcel H-17A-1B2 and Parcel H-18A-1, vacated by Quitclaim Deeds from the AMAFCA Board of Directors, filed _____, 1993 as Document Nos._____ and_____ respectively, and approved by the DRB as V-93-30.

PUBLIC UTILITY EASEMENTS

PUBLIC UTILITY EASEMENTS shown on this plat are ten (10) feet wide and are for the common joint use of:

A. The Public Service Company of New Mexico for the installation, maintenance, and service of overhead and underground electrical lines, transformers, and other equipment, fixtures, structures and related facilities reasonably necessary to provide electrical service.

B. The Gas Company of New Mexico for installation, maintenance, and service of natural gas lines, valves and other equipment and facilities reasonably necessary to provide natural gas.

C. U S West for the installation, maintenance and service of all buried and aerial communication lines and other related equipment and facilities reasonably necessary to provide communication services, including but not limited to above ground pedestals and closures.

D. Jones Intercable for the installation, maintenance, and service of such lines, cable, and other related equipment and facilities reasonably necessary to provide Cable TV service.

Included is the right to build, rebuild, construct, reconstruct, locate, relocate, change, remove, modify, renew, operate, and maintain facilities for the purposes described above, together with free access to, from, and over said easements, including sufficient working area space for electric transformers, with the right and privilege to trim and remove trees, shrubs or bushes which interfere with the purposes set forth herein. No building, sign, pool (above ground or subsurface), hot tub, concrete or wood pool decking, or other structure shall be erected or constructed on said easements, nor shall any well be drilled or operated thereon. Property owners shall be solely responsible for correcting any violations of National Electric Safety Code caused by construction of pools, decking, or any structures adjacent to or near easements shown on this plat.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
2	6		4	5	6	9	.	9	3	0	2	9	4	

PROJECT NO. 4569.93

SHEET 2 OF 28

SCANNED BY BY LASON

DESCRIPTION

A certain tract of land situate within Sections 13 and 24, Township 11 North, Range 2 East, New Mexico Principal Meridian, City of Albuquerque, Bernalillo County, New Mexico, being and comprising all of Parcel H-17A-1B2 and Parcel H-18A-1 of Plat of RIVERVIEW PARCELS H-17A-1B1, H-17A-1B2, H-18A-1 and H-24C-1, 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 May 20, 1992 in Volume 92C, Folio 95 and being more particularly described by New Mexico State Plane Grid Bearings (Central Zone) and ground distances as follows:

BEGINNING at the northeast corner of said Parcel H-18A-1, a point on the westerly boundary line of the Piedras Marcadas Dam, whence the ACS monument "R. Alameda B. No. 2" a standard Corps of Engineers metal tablet set in concrete (having New Mexico State Plane Grid Coordinates for Central Zone: X=373,513.20 and Y=1,520,142.81) bears N70°15'41"E, a distance of 2509.21 feet and from said point of beginning running thence along the easterly boundary line of said Parcel H-18A-1 and also along said Piedras Marcadas Dam boundary line,
S36°55'05"W, a distance of 46.46 feet to a point; thence,
S53°06'08"E, a distance of 319.96 feet to a point; thence,
S00°00'40"E, a distance of 409.93 feet to a point on the westerly right- of-way line of Butterfield Trail, N.W., thence running along the easterly boundary line of said Parcel H-18A-1 and also along said right-of-way line,
S38°33'11"W, a distance of 20.98 feet to a point of curvature (non-tangent), thence,
123.15 feet along the arc of a curve to the left having a radius of 45.00 feet and a chord which bears S56°46'29"W, a distance of 88.16 feet to a point of reverse curvature; thence,
26.26 feet along the arc of a curve to the right having a radius of 25.00 feet and a chord which bears S08°27'48"W, a distance of 25.07 feet to a point of tangency; thence,
S38°33'11"W, a distance of 312.15 feet to a point of curvature; thence,
39.27 feet along the arc of a curve to the right having a radius of 25.00 feet and a chord which bears S83°33'11"W, a distance of 35.36 feet to a point of tangency on the southerly boundary line of said Parcel H-18A-1 and also being a point on the northerly right-of-way line of Calle Nortena N.W., thence running along the southerly boundary line of said Parcel H- 18A-1 and also along said right-of-way line,
N51°26'49"W, a distance of 81.64 feet to a point of curvature; thence,
75.18 feet along the arc of a curve to the right having a radius of 975.00 feet and a chord which bears N49°14'17"W, a distance of 75.16 feet to a point of tangency; thence,
N47°01'45"W, a distance of 543.28 feet to a point of curvature; thence,
39.27 feet along the arc of a curve to the right having a radius of 25.00 feet and a chord which bears N02°01'45"W, a distance of 35.36 feet to a point of tangency on the westerly boundary line of said Parcel H-18A-1 and also being a point on the easterly right-of-way line of Rancho Sereno Drive, thence running along the westerly boundary line of said Parcel H- 18A-1 and also along said right-of-way line,
N42°58'15"E, a distance of 94.26 feet to a point of curvature; thence,
244.58 feet along the arc of a curve to the left having a radius of 325.00 feet and a chord which bears N21°24'42"E, a distance of 238.85 feet to a point of tangency; thence,
N00°08'52"W, a distance of 157.21 feet to a point; thence,
S89°51'08"W, a distance of 50.00 feet to a point on the easterly boundary line of said Parcel H-17A-1B2 and also being a point on the westerly right-of-way line of said Rancho Sereno Drive, thence running along the easterly boundary line of said Parcel H-17A-1B2 and also along said right- of-way line,
S00°08'52"E, a distance of 157.21 feet to a point of curvature; thence,
206.95 feet along the arc of a curve to the right having a radius of 275.00 feet and a chord which bears S21°24'42"W, a distance of 202.11 feet to a point of tangency; thence,
S42°58'15"W, a distance of 94.26 feet to a point of curvature; thence,
39.27 feet along the arc of a curve to the right having a radius of 25.00 feet and a chord which bears S87°58'15"W, a distance of 35.36 feet to a point of tangency on the southerly boundary line of said Parcel H-17A-1B2 and also being a point on the northerly right-of-way line of said Calle Nortena, N.W., thence running along the southerly boundary line of said Parcel H-17A-1B2 and also along said right-of-way line,
N47°01'45"W, a distance of 208.79 feet to a point of curvature; thence,
236.40 feet along the arc of a curve to the left having a radius of 470.00 feet and a chord which bears N61°26'18"W, a distance of 233.92 feet to a point of reverse curvature; thence,
159.75 feet along the arc of a curve to the right having a radius of 280.00 feet and a chord which bears N59°30'10"W, a distance of 157.60 feet to a point of tangency; thence,
N43°09'28"W, a distance of 178.51 feet to a point of curvature; thence,
260.72 feet along the arc of a curve to the left having a radius of 425.00 feet and a chord which bears N60°43'55"W, a distance of 256.65 feet to a point of reverse curvature; thence,
29.14 feet along the arc of a curve to the right having a radius of 291.00 feet and a chord which bears N75°26'16"W, a distance of 29.13 feet to a point of reverse cuvature; thence,
42.34 feet along the arc of a curve to the left having a radius of 159.00 feet and a chord which bears N80°11'51"W, a distance of 42.21 feet to a point of compound curvature; thence,
88.39 feet along the arc of a curve to the left having a radius of 431.00 feet and a chord which bears S86°17'56"W, a distance of 88.23 feet to a point of reverse curvature; thence,
46.35 feet along the arc of a curve to the right having a radius of 30.00 feet and a chord which bears N55°18'41"W, a distance of 41.88 feet to a point of compound curvature on the westerly boundary line of said Parcel H-17A-1B2 and also being a point on the easterly right-of-way line of Golf Course Road, N.W., thence running along the westerly boundary line of said Parcel H-17A-1B2 and also along said right-of-way line,
11.73 feet along the arc of a curve to the right having a radius of 1047.00 feet and a chord which bears N10°43'32"W, a distance of 11.73 feet to a point of compound curvature; thence,
53.76 feet along the arc of a curve to the right having a radius of 140.00 feet and a chord which bears N00°35'49"E, a distance of 53.43 feet to a point of reverse curvature; thence,
18.93 feet along the arc of a curve to the left having a radius of 60.00 feet and a chord which bears N02°33'32"E, a distance of 18.85 feet to a point of reverse curvature; thence,
40.00 feet along the arc of a curve to the right having a radius of 1035.00 feet and a chord which bears N05°22'24"W, a distance of 40.00 feet to a point of non-tangency; thence,
N85°44'01"E, a distance of 5.00 feet to a point; thence,
N03°42'36"W, a distance of 20.00 feet to a point; thence,
S86°50'47"W, a distance of 5.00 feet to a point of curvature (non-tangent); thence,
18.96 feet along the arc of a curve to the left having a radius of 60.00 feet and a chord which bears N12°12'19"W, a distance of 18.88 feet to a point of reverse curvature; thence,
52.67 feet along the arc of a curve to the right having a radius of 140.00 feet and a chord which bears N10°28'47"W, a distance of 52.36 feet to a point of tangency; thence,
N00°17'50"E, a distance of 125.69 feet to the northwest corner of said Parcel H-17A-1B2, a point on the southerly right-of-way line of the Piedras Marcadas Arroyo, thence running along the northerly boundary line of said Parcels H-17A-1B2 and H-18A-1 and also along said southerly right-of-way line,
S75°57'43"E, a distance of 282.36 feet to a point of curvature; thence,
117.91 feet along the arc of a curve to the right having a radius of 2233.30 feet and a chord which bears S74°26'59"E, a distance of 117.90 feet to a point of compound curvature; thence,
152.39 feet along the arc of a curve to the right having a radius of 1101.65 feet and a chord which bears S68°58'28"E, a distance of 152.27 feet to a point of compound curvature; thence,
117.91 feet along the arc of a curve to the right having a radius of 2233.30 feet and a chord which bears S63°29'56"E, a distance of 117.90 feet to a point of reverse curvature; thence,
127.33 feet along the arc of a curve to the left having a radius of 2030.00 feet and a chord which bears S63°47'00"E, a distance of 127.31 feet to a point of compound cuvature; thence,
194.37 feet along the arc of a curve to the left having a radius of 1030.00 feet and a chord which bears S70°59'11"E, a distance of 194.08 feet to a point of compound curvature; thence,
127.33 feet along the arc of a curve to the left having a radius of 2030.00 feet and a chord which bears S78°11'22"E, a distance of 127.31 feet to a point of tangency; thence,
S79°59'11"E, a distance of 255.62 feet to a point of curvature; thence,
125.29 feet along the arc of a curve to the right having a radius of 2956.10 feet and a chord which bears S78°46'20"E, a distance of 125.28 feet to a to a point of compound curvature; thence,
259.01 feet along the arc of a curve to the right having a radius of 1463.05 feet and a chord which bears S72°29'11"E, a distance of 258.67 feet to a point of compound curvature; thence,
60.72 feet along the arc of a curve to the right having a radius of 2956.10 feet and a chord which bears S66°49'35"E, a distance of 60.72 feet to the point and place of beginning.

Tract contains 25.9766 acres, more or less.

PLAT OF
RANCHO SERENO SUBDIVISION UNIT 2

ALBUQUERQUE, NEW MEXICO
SEPTEMBER, 1993

APPROVALS

PLAT NUMBER _____

PLANNING DIRECTOR	DATE
CITY ENGINEER	DATE
A.M.A.F.C.A. Rachel Donte	DATE 9-21-93
TRAFFIC ENGINEER	DATE
CITY SURVEYOR	DATE
PROPERTY MANAGEMENT Robert W. Kane	DATE 9-21-93
UTILITY DEVELOPMENT DEPARTMENT	DATE
PARKS AND RECREATION DEPARTMENT Callum K. Fang	DATE 9-21-93
PUBLIC SERVICE COMPANY OF NEW MEXICO	DATE
U.S. WEST COMMUNICATIONS	DATE
GAS COMPANY OF NEW MEXICO	DATE

THIS IS TO CERTIFY THAT TAXES ARE CURRENT AND PAID

ON UPC# _____

PROPERTY OWNER OF RECORD: _____

BERNALILLO COUNTY TREASURER'S OFFICE	DATE

FREE CONSENT AND DEDICATION

The foregoing Replat of those certain tracts of land situate within Sections 13 and 24, Township 11 North, Range 2 East, New Mexico Principal Meridian, City of Albuquerque, Bernalillo County, New Mexico, being and comprising all of Parcel H-17A-1B2 and Parcel H-18A-1 of Plat of RIVERVIEW PARCELS H-17A-1B1, H-17A-1B2, H-18A-1 and H-24C-1, 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 May 20, 1992 in Volume 92C, Folio 95 and now hereon comprising RANCHO SERENO SUBDIVISION, UNIT 2 is with free consent and in accordance with the desires of the undersigned owner(s) and/or proprietor(s) thereof, and said owner(s) and/or proprietor(s) do hereby dedicate additional public street and public access right-of-way to the City of Albuquerque in fee simple with warranty covenants and do hereby grant all access, utility and drainage easements shown hereon including the right to construct, operate, inspect, and maintain facilities therein; and all public utility easements shown hereon for the common and joint use of gas, electrical power and communication services for buried distribution lines, conduits, and pipes for underground utilities where shown or indicated, and including the right to trim interfering trees and shrubs. Said owner(s) and/or proprietor(s) do hereby consent to all of the foregoing and do hereby certify that this subdivision is their free act and deed.

Richard Mallett

Richard Mallet, President
CENTEX REAL ESTATE CORPORATION

State of New Mexico)
SS
County of Bernalillo)

This instrument was acknowledged before me on 10th day of Sept., 1993 by Richard Mallet, President of CENTEX REAL ESTATE CORPORATION.

My Commission Expires: 6/24/96 Friedra Ward
Notary Public

SURVEYOR'S CERTIFICATION

I, Thomas G. Klingenhagen, a registered Professional New Mexico Surveyor, certify that this plat was prepared by me or under my supervision, shows all easements of record, meets the minimum requirements for monumentation and surveys contained in the Albuquerque Subdivision Ordinance, and is true and accurate to the best of my knowledge and belief. 6/24/96

Tom Klingenhagen
Thomas G. Klingenhagen
New Mexico Surveyor 5978

Date: 9-13-93

Bohannan-Huston Inc.
Courtyard I
7500 Jefferson Street, N.E.
Albuquerque, New Mexico 87109

JOB NO. 92287.83

SHEET 1 OF 3 SHEETS

SURV: [S9228783] SHEET1.DWF

PLAT OF

RANCHO SERENO SUBDIVISION UNIT 2

ALBUQUERQUE, NEW MEXICO
SEPTEMBER, 1993

CURVE DATA

NUMBER	ARC	RADIUS	DELTA	CHORD	CHORD BEARING	TANGENT
C1	123.15	45.00	156°48'08"	88.16	S56°46'29"W	219.25
C2	26.26	25.00	60°10'46"	25.07	S08°27'48"W	14.49
C3	39.27	25.00	90°00'00"	35.36	S83°33'11"W	25.00
C4	75.18	975.00	4°25'04"	75.16	N49°14'17"W	37.61
C5	39.27	25.00	90°00'00"	35.36	N02°01'45"W	25.00
C6	244.58	325.00	43°07'07"	238.85	N21°24'42"E	128.41
C7	206.95	275.00	43°07'07"	202.11	S21°24'42"W	108.65
C8	39.27	25.00	90°00'00"	35.36	S87°58'15"W	25.00
C9	236.40	470.00	28°49'07"	233.92	N61°26'18"W	120.76
C10	159.75	280.00	32°41'24"	157.60	N59°30'10"W	82.12
C11	260.72	425.00	35°08'55"	256.65	N60°43'55"W	134.61
C12	29.14	291.00	5°44'14"	29.13	N75°26'16"W	14.58
C13	42.34	159.00	15°15'25"	42.21	N80°11'51"W	21.30
C14	88.39	431.00	11°45'00"	88.23	S86°17'56"W	44.35
C15	46.35	30.00	88°31'46"	41.88	N55°18'41"W	29.24
C16	11.73	1047.00	0°38'32"	11.73	N10°43'32"W	5.87
C17	53.76	140.00	22°00'10"	53.43	N00°35'49"E	27.22
C18	18.93	60.00	18°04'44"	18.85	N02°33'32"E	9.55
C19	40.00	1035.00	2°12'52"	40.00	N05°22'24"W	20.00
C20	18.96	60.00	18°06'11"	18.88	N12°12'19"W	9.56
C21	52.67	140.00	21°33'14"	52.36	N10°28'47"W	26.65
C22	117.91	2233.30	3°01'30"	117.90	S74°26'59"E	58.97
C23	152.39	1101.65	7°55'33"	152.27	S68°58'28"E	76.32
C24	117.91	2233.30	3°01'30"	117.90	S63°29'56"E	58.97
C25	127.33	2030.00	3°35'38"	127.31	S63°47'00"E	63.69
C26	194.37	1030.00	10°48'44"	194.08	S70°59'11"E	97.47
C27	127.33	2030.00	3°35'38"	127.31	S78°11'22"E	63.69
C28	125.29	2956.10	2°25'42"	125.28	S78°46'20"E	62.65
C29	259.01	1463.05	10°08'36"	258.67	S72°29'11"E	129.84
C30	60.72	2956.10	1°10'37"	60.72	S66°49'35"E	30.36
C31	109.86	75.00	83°55'37"	100.30	N05°03'56"W	67.41
C32	268.06	458.00	33°32'05"	264.25	S16°37'10"W	137.99
C33	52.63	75.00	40°12'29"	51.56	S13°16'58"W	27.45
C34	52.63	75.00	40°12'29"	51.56	S26°55'30"E	27.45
C35	61.80	75.00	47°12'32"	60.06	S70°38'01"E	32.77
C36	61.80	75.00	47°12'32"	60.06	N62°09'27"E	32.77
C37	244.54	1053.52	13°17'58"	243.99	S79°42'21"E	122.82
C38	156.58	285.00	31°28'43"	154.62	S57°19'00"E	80.32
C39	143.18	285.00	28°47'03"	141.68	S55°58'10"E	73.13
C40	86.83	285.00	17°27'24"	86.50	S79°05'23"E	43.76
C41	11.59	285.00	2°19'47"	11.59	S88°58'59"E	5.79
C42	26.65	320.00	4°46'18"	26.64	S87°45'43"E	13.33
C43	70.69	320.00	12°39'25"	70.55	S79°02'52"E	35.49
C44	109.56	320.00	19°37'01"	109.03	S62°54'39"E	55.32
C45	159.04	320.00	28°28'34"	157.41	S67°20'25"E	81.20
C46	91.05	500.00	10°26'03"	90.93	N24°51'20"E	45.65
C47	111.38	148.00	43°07'07"	108.77	S21°24'42"W	58.48
C48	30.45	297.00	5°52'26"	30.44	N56°02'21"W	15.24
C49	78.54	50.00	90°00'00"	70.71	S06°26'49"E	50.00
C50	39.27	25.00	90°00'00"	35.36	N83°33'11"E	25.00
C51	146.26	1463.05	5°43'40"	146.19	S74°41'39"E	73.19
C52	207.33	1443.05	8°13'56"	207.16	N73°26'31"W	103.85
C53	50.23	2936.10	0°58'49"	50.23	N78°02'53"W	25.12
C54	149.63	1081.65	7°55'33"	149.51	N68°58'28"W	74.93
C55	116.85	2213.30	3°01'30"	116.84	N74°26'59"W	58.44
C56	112.75	1463.05	4°24'56"	112.72	S69°37'21"E	56.40
C57	39.27	25.00	90°00'00"	35.36	N44°51'08"E	25.00
C58	39.27	25.00	90°00'00"	35.36	S45°08'52"E	25.00
C59	46.22	25.00	105°55'20"	39.91	N52°48'48"E	33.13
C60	7.81	297.00	1°30'22"	7.81	S73°28'20"E	3.90
C61	101.69	297.00	19°37'01"	101.19	S62°54'39"E	51.35
C62	39.27	25.00	90°00'00"	35.36	S08°06'08"E	25.00
C63	143.55	98.00	83°55'37"	131.06	S05°03'56"E	88.13
C64	84.41	45.00	107°28'14"	72.57	N32°06'32"E	61.34
C65	18.64	25.00	42°42'32"	18.21	N72°48'05"W	9.77
C66	76.17	52.00	83°55'37"	69.54	N05°03'56"W	46.76
C67	37.27	25.00	85°24'28"	33.91	N79°36'06"E	23.07
C68	142.98	343.00	23°53'02"	141.95	S69°38'11"E	72.54
C69	164.73	40.00	235°57'32"	70.65	N19°33'28"W	75.29
C70	29.40	25.00	67°22'48"	27.74	S76°09'10"W	16.67
C71	88.41	297.00	17°03'18"	88.08	N61°37'47"W	44.53
C72	117.44	343.00	19°37'01"	116.86	N62°54'39"W	59.30
C73	104.94	345.00	17°25'43"	104.54	N81°26'01"W	52.88
C74	39.27	25.00	90°00'00"	35.36	N45°08'52"W	25.00
C75	37.34	25.00	85°34'56"	33.97	S04°14'17"E	23.14
C76	85.69	52.00	94°25'04"	76.32	S85°45'43"W	56.17
C77	72.98	52.00	80°24'57"	67.14	N06°49'16"W	43.96
C78	281.52	481.00	33°32'05"	277.52	N16°37'10"E	144.92
C79	254.60	435.00	33°32'05"	250.98	S16°37'10"W	131.06
C80	10.72	98.00	6°15'57"	10.71	S30°15'15"W	5.36
C81	19.59	25.00	44°54'15"	19.10	S49°34'23"W	10.33
C82	123.85	45.00	157°41'33"	88.30	S06°49'16"E	228.23
C83	19.59	25.00	44°54'15"	19.10	S63°12'55"E	10.33
C84	10.72	98.00	6°15'57"	10.71	S43°53'47"E	5.36
C85	22.59	98.00	13°12'16"	22.54	S53°37'53"E	11.34
C86	19.77	25.00	45°19'15"	19.26	S37°34'23"E	10.44
C87	124.60	45.00	158°39'02"	88.44	N85°45'43"E	238.73
C88	19.77	25.00	45°19'15"	19.26	N29°05'50"E	10.44
C89	22.59	98.00	13°12'16"	22.54	N45°09'19"E	11.34
C90	39.27	25.00	90°00'00"	35.36	S44°51'08"W	25.00
C91	89.79	260.00	19°47'10"	89.34	N80°15'17"W	45.35
C92	131.62	262.00	28°47'03"	130.24	N55°58'10"W	67.23
C93	169.22	308.00	31°28'43"	167.10	N57°19'00"W	86.80
C94	193.24	1076.52	10°17'05"	192.98	N78°11'54"W	96.88
C95	26.19	25.00	60°01'07"	25.01	N53°19'53"W	14.44
C96	169.67	40.00	243°02'01"	68.20	S35°09'41"W	65.23
C97	239.20	1030.52	13°17'58"	238.67	S79°42'21"E	120.14
C98	143.94	262.00	31°28'43"	142.14	S57°19'00"E	73.84
C99	154.73	308.00	28°47'03"	153.11	S55°58'10"E	79.04
C100	47.00	310.00	8°41'12"	46.95	S74°42'17"E	23.54
C101	34.43	25.00	78°54'01"	31.77	S39°35'53"E	20.57
C102	94.82	126.00	43°07'07"	92.60	S21°24'42"W	49.78
C103	19.06	25.00	43°41'27"	18.61	S64°48'59"W	10.02
C104	186.67	40.00	267°22'54"	57.85	S47°01'45"E	41.87
C105	19.06	25.00	43°41'27"	18.61	N21°07'32"E	10.02
C106	127.94	170.00	43°07'07"	124.94	N21°24'42"E	67.17
C107	39.27	25.00	90°00'00"	35.36	S25°21'42"E	25.00
C108	19.06	25.00	43°41'27"	18.61	S41°29'02"W	10.02
C109	186.67	40.00	267°22'54"	57.85	S70°21'42"E	38.95
C110	19.06	25.00	43°41'27"	18.61	N02°12'25"W	10.02
C111	39.27	25.00	90°00'00"	35.36	N64°38'18"E	25.00
C112	86.50	475.00	10°26'03"	86.38	S24°51'20"W	43.37
C113	44.20	25.00	101°18'28"	38.67	S80°43'35"W	30.49
C114	110.52	280.00	22°36'56"	109.80	S59°55'39"E	55.99
C115	44.20	25.00	101°18'28"	38.67	N20°34'53"W	30.49
C116	95.61	525.00	10°26'03"	95.48	N24°51'20"E	47.94
C117	5.30	345.00	0°52'46"	5.30	N89°42'29"W	2.65
C118	50.23	2936.10	0°58'49"	50.23	S78°02'53"E	25.12
C119	22.52	1443.05	0°53'39"	22.52	S77°06'39"E	11.26
C120	45.33	345.00	7°31'41"	45.30	N85°30'15"W	22.70
C121	53.31	1443.05	2°06'59"	53.30	S75°36'20"E	26.66
C122	49.30	345.00	8°11'18"	49.26	N77°38'46"W	24.69
C123	53.31	1443.05	2°07'00"	53.31	S73°29'20"E	26.66
C124	6.72	343.00	1°07'20"	6.72	N72°09'28"W	3.36
C125	5.01	345.00	0°49'58"	5.01	N73°08'07"W	2.51
C126	65.73	1443.05	2°36'36"	65.73	S71°07'32"E	32.87
C127	46.65	343.00	7°47'30"	46.61	N67°42'04"W	23.36
C128	12.46	1443.05	0°29'41"	12.46	S69°34'24"E	6.23
C129	46.69	343.00	7°47'55"	46.65	N59°54'22"W	23.38
C130	17.39	343.00	2°54'16"	17.39	N54°33'16"W	8.70
C131	115.70	40.00	165°43'19"	79.38	N47°52'48"W	319.36
C132	57.96	297.00	11°10'51"	57.87	N64°34'00"W	29.07
C133	6.12	343.00	1°01'21"	6.12	S81°04'02"E	3.06
C134	44.29	40.00	63°26'27"	42.06	N66°42'05"E	24.72
C135	47.65	343.00	7°57'34"	47.61	S76°34'34"E	23.86
C136	89.21	343.00	14°54'07"	88.96	S65°08'43"E	44.86
C137	38.75	45.00	49°19'54"	37.56	N69°29'24"W	20.67
C138	30.41	98.00	17°46'41"	30.29	S38°08'25"E	15.33
C139	46.29	98.00	27°03'39"	45.86	S15°43'15"E	23.58
C140	47.74	98.00	27°54'50"	47.27	S11°46'00"W	24.36
C141	19.11	98.00	11°10'27"	19.08	S31°18'39"W	9.59
C142	67.69	297.00	13°03'31"	67.54	S59°37'53"E	33.99
C143	33.73	481.00	4°01'02"	33.72	N01°51'39"E	16.87
C144	34.00	297.00	6°33'30"	33.98	S69°26'24"E	17.02
C145	48.02	481.00	5°43'14"	48.00	N06°43'47"E	24.03
C146	48.02	481.00	5°43'14"	48.00	N12°27'01"E	24.03
C147	48.02	481.00	5°43'14"	48.00	N18°10'15"E	24.03
C148	48.02	481.00	5°43'14"	48.00	N29°36'43"E	24.03
C149	7.68	481.00	0°54'53"	7.68	N32°55'46"E	3.84
C150	4.23	98.00	2°28'16"	4.23	N39°47'19"E	2.11
C151	14.02	45.00	17°51'15"	13.97	N15°21'50"E	7.07
C152	18.36	98.00	10°44'00"	18.33	N46°23'27"E	9.21
C153	40.83	45.00	51°59'26"	39.45	N50°17'10"E	21.94
C154	37.07	975.00	2°10'43"	37.07	N50°21'27"W	18.54
C155	33.26	45.00	42°20'32"	32.50	S82°32'50"E	17.43
C156	14.85	25.00	34°02'38"	14.64	S31°56'05"E	7.65
C157	36.49	45.00	46°27'48"	35.50	S38°08'40"E	19.32
C158	38.11	975.00	2°14'21"	38.10	N48°08'56"W	19.06
C159	4.92	25.00	11°16'37"	4.91	S54°35'42"E	2.47
C160	20.56	45.00	26°10'50"	20.38	S72°34'37"E	10.46
C161	36.67	45.00	46°41'38"	35.67	S36°08'24"E	19.42
C162	37.43	45.00	47°39'16"	36.36	S11°02'03"W	19.87
C163	0.72	325.00	0°07'35"	0.72	N42°54'28"E	0.36
C164	5.63	98.00	3°17'22"	5.63	S28°45'59"W	2.81
C165	29.19	45.00	37°09'49"	28.68	S53°26'36"W	15.13
C166	49.85	325.00	8°47'16"	49.80	N38°27'03"E	24.97
C167	58.94	435.00	7°45'49"	58.90	S29°30'18"W	29.52
C168	5.09	98.00	2°58'34"	5.09	S31°53'55"W	2.55
C169	47.84	325.00	8°26'00"	47.79	N29°50'24"E	23.96
C170	64.03	435.00	8°26'00"	63.97	S21°24'24"W	32.07
C171	47.84	325.00	8°26'00"	47.79	N21°24'24"E	23.96
C172	64.03	435.00	8°26'00"	63.97	S12°58'23"W	32.07
C173	47.84	325.00	8°26'00"	47.79	N12°58'23"E	23.96
C174	64.03	435.00	8°26'00"	63.97	S04°32'23"W	32.07
C175	47.84	325.00	8°26'00"	47.79	N04°32'23"E	23.96
C176	3.57	435.00	0°28'15"	3.57	S00°05'13"W	1.79
C177	2.67	325.00	0°28'15"	2.67	N00°05'15"E	1.34
C178	47.61	275.00	9°55'11"	47.55	S04°48'44"W	23.87
C179	29.43	170.00	9°55'11"	29.40	N04°48'44"E	14.75
C180	94.54	275.00	19°41'53"	94.08	S19°37'16"W	47.74
C181	58.45	170.00	19°41'53"	58.16	N19°37'16"E	29.51
C182	64.80	275.00	13°30'03"	64.65	S36°13'14"W	32.55
C183	12.81	40.00	18°20'40"	12.75	N08°27'08"E	6.46
C184	40.06	170.00	13°30'03"	39.96	N36°13'14"E	20.12
C185	80.53	40.00	115°20'47"	67.60	N75°17'52"E	63.21
C186	58.46	40.00	83°44'39"	53.40	S05°09'25"E	35.85
C187	31.61	470.00	3°51'12"	31.60	N48°57'21"W	15.81
C188	50.20	126.00	22°49'43"	49.87	S31°33'24"W	25.44
C189	34.87	40.00	49°56'48"	33.78	S61°41'18"W	18.63
C190	44.62	126.00	20°17'24"	44.39	S09°59'50"W	22.55
C191	16.58	40.00	23°45'15"	16.47	N12°10'31"W	8.41
C192	112.64	470.00	13°43'51"	112.37	N57°44'52"W	56.59
C193	76.75	40.00	109°56'12"	65.51	N54°40'13"E	57.06
C194	76.75	40.00	109°56'12"	65.51	S15°23'35"E	57.06
C195	92.16	470.00	11°14'04"	92.01	N70°13'50"W	46.23
C196	22.54	280.00	4°36'45"	22.53	N73°32'28"W	11.28
C197	48.03	525.00	5°14'31"	48.02	N27°27'06"E	24.03
C198	16.58	40.00	23°45'15"	16.47	S51°27'08"W	8.41
C199	47.57	525.00	5°11'31"	47.56	N22°14'04"E	23.80
C200	26.69	280.00	5°27'43"	26.68	N45°53'20"W	13.36
C201	19.00	308.00	3°32'06"	19.00	S68°35'39"E	9.50
C202	61.14	308.00	11°22'23"	61.04	S61°08'24"E	30.67
C203	61.14	308.00	11°22'23"	61.04	S49°46'02"E	30.67
C204	85.79	425.00	11°33'58"	85.65	N48°56'27"W	43.04
C205	71.14	262.00	15°33'27"	70.92	S49°21'22"E	35.79
C206	13.46	308.00	2°30'12"	13.46	S42°49'45"E	6.73
C207	54.97	425.00	7°24'38"	54.93	N58°25'45"W	27.52
C208	17.55	1030.52	0°58'34"	17.55	S73°32'38"E	8.78
C209	72.80	262.00	15°55'16"	72.57	S65°05'44"E	36.64
C210	50.12	425.00	6°45'24"	50.09	N65°30'46"W	25.09
C211	70.86	1030.52	3°56'23"	70.84	S76°00'06"E	35.44
C212	61.83	425.00	8°20'07"	61.77	N73°03'31"W	30.97
C213	70.86	1030.52	3°56'23"	70.84	S79°56'29"E	35.44
C214	8.01	425.00	1°04'48"	8.01	N77°45'58"W	4.01
C215	24.95	159.00	8°59'22"	24.92	N77°03'50"W	12.50
C216	79.93	1030.52	4°26'39"	79.91	S84°08'00"E	39.99
C217	17.39	159.00	6°16'03"	17.38	N84°41'32"W	8.71
C218	39.70	431.00	5°16'38"	39.68	S89°32'07"W	19.86
C219	41.77	40.00	59°49'28"	39.89	S56°26'36"E	23.01
C220	48.69	431.00	6°28'22"	48.66	S83°39'37"W	24.37
C221	65.80	40.00	94°15'03"	58.63	S20°35'40"W	43.08
C222	13.95	25.00	31°57'48"	13.77	N39°18'13"W	7.16
C223	62.10	40.00	88°57'30"	56.05	N67°48'04"W	39.28
C224	52.10	1076.52	2°46'22"	52.09	N81°57'15"W	26.05

CURVE DATA

NUMBER	ARC	RADIUS	DELTA	CHORD	CHORD BEARING	TANGENT
C225	12.24	25.00	28°03'20"	12.12	N69°18'47"W	6.25
C226	27.00	2213.30	0°41'56"	27.00	S75°36'46"E	13.50
C227	63.82	1076.52	3°23'49"	63.81	N78°52'10"W	31.92
C228	70.39	2213.30	1°49'20"	70.39	S74°21'08"E	35.20
C229	63.82	1076.52	3°23'49"	63.81	N75°28'21"W	31.92
C230	19.46	2213.30	0°30'13"	19.46	S73°11'21"E	9.73
C231	61.13	1081.65	3°14'18"	61.13	S71°19'05"E	30.58
C232	48.22	308.00	8°58'12"	48.17	N68°34'16"W	24.16
C233	13.49	1076.52	0°43'05"	13.49	N73°24'54"W	6.75
C234	85.92	1081.65	4°33'04"	85.89	S67°25'24"E	42.98
C235	61.14	308.00	11°22'23"	61.04	N58°23'58"W	30.67
C236	2.58	1081.65	0°08'12"	2.58	S65°04'48"E	1.29
C237	1.47	262.00	0°19'18"	1.47	N41°44'17"W	0.74
C238	59.86	308.00	11°08'08"	59.77	N47°08'43"W	30.03
C239	89.78	262.00	19°37'58"	89.34	N51°42'56"W	45.33
C240	40.38	262.00	8°49'47"	40.34	N65°56'48"W	20.23
C241	70.05	260.00	15°26'14"	69.84	N78°04'48"W	35.24
C242	19.73	260.00	4°20'56"	19.73	N87°58'25"W	9.87
C243	48.02	481.00	5°43'14"	48.00	N23°53'29"E	24.03
C244	23.56	15.00	90°00'00"	21.21	S08°06'08"E	15.00
C245	4.74	40.00	6°47'46"	4.74	S45°51'38"W	2.38

TANGENT DATA

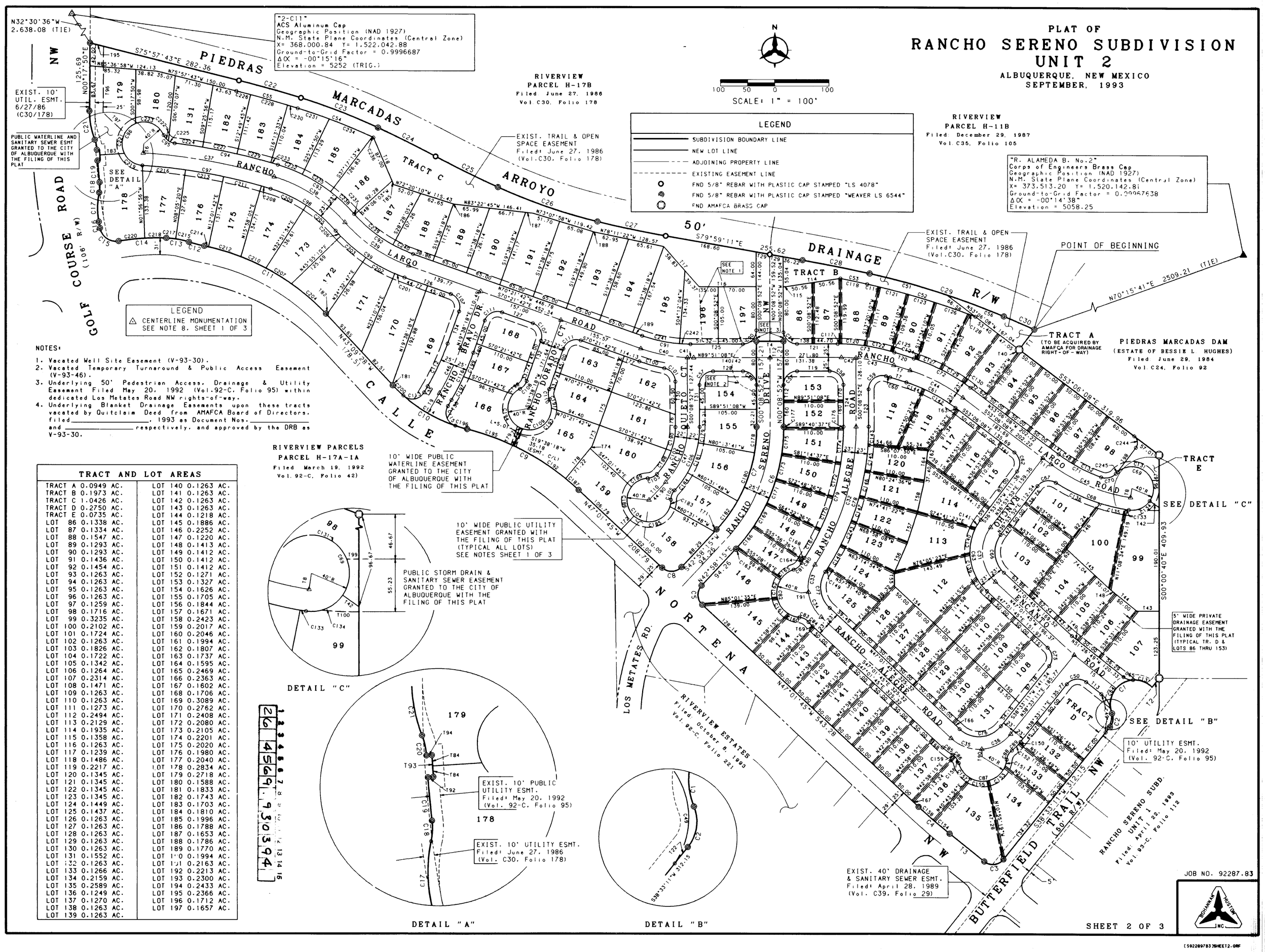
NUMBER	BEARING	DISTANCE	NUMBER	BEARING	DISTANCE
T1	S36°55'05"W	46.46	T51	S47°01'45"E	31.86
T2	S38°33'11"W	20.98	T52	N47°01'45"W	50.00
T3	N51°26'49"W	81.64	T53	S47°01'45"E	20.08
T4	S89°51'08"W	50.00	T54	N47°01'45"W	100.00
T5	N51°26'49"W	97.83	T55	N00°49'24"W	25.40
T6	S03°38'40"W	17.00	T56	N23°53'29"E	58.98
T7	S72°43'09"E	31.16	T57	N18°10'15"E	58.98
T8	N08°25'18"E	17.00	T58	N12°27'01"E	58.98
T9	N30°04'21"E	42.76	T59	S36°53'52"W	26.36
T10	S42°58'15"W	44.90	T60	S00°08'52"E	47.21
T11	S53°06'08"E	18.54	T61	N53°06'08"W	30.00
T12	N00°08'52"W	30.00	T62	S06°43'48"W	21.58
T13	S51°26'49"E	35.00	T63	N53°06'08"W	5.69
T14	S81°20'56"W	101.11	T64	S06°43'48"W	58.98
T15	S89°51'08"W	5.00	T65	N42°58'15"E	110.00
T16	S89°51'08"W	105.00	T66	N47°01'45"W	15.82
T17	N41°11'33"W	98.20	T67	N47°01'45"W	15.15
T18	N23°13'21"W	94.49	T68	S47°01'45"E	22.74
T19	N89°51'08"E	60.00	T69	S47°01'45"E	2.57
T20	N72°43'09"W	37.53	T70	S00°08'52"E	30.00
T21	S89°51'08"W	74.70	T71	S42°58'15"W	5.96
T22	S38°33'11"W	12.83	T72	N42°58'15"E	34.36
T23	N00°08'52"W	68.77	T73	N19°38'18"E	40.05
T24	S00°08'52"E	77.21	T74	N39°07'03"E	6.36
T25	S89°51'08"W	96.32	T75	N19°38'18"E	65.00
T26	S70°21'42"E	89.77	T76	S00°08'52"E	22.57
T27	S70°21'42"E	60.00	T77	S70°21'42"E	29.13
T28	N89°51'08"E	55.00	T78	S39°07'03"W	77.58
T29	S79°59'11"E	25.40	T79	N25°23'12"E	35.19
T30	S00°08'52"E	83.47	T80	N19°38'18"E	17.49
T31	N00°08'52"W	77.21	T81	N43°09'28"W	1.90
T32	S19°38'18"W	78.74	T82	N43°09'28"W	0.44
T33	N19°38'18"E	78.74	T83	N86°17'24"E	45.31
T34	S19°38'18"W	62.49	T84	N03°42'36"W	10.00
T35	S30°04'21"W	12.81	T85	S23°13'21"E	7.49
T36	N30°04'21"E	12.81	T86	S72°20'10"E	0.71
T37	N19°38'18"E	62.49	T87	S83°22'45"E	13.71
T38	S89°51'08"W	30.00	T88	S73°07'58"E	2.64
T39	N36°53'52"E	110.44	T89	N70°21'42"W	17.92
T40	S53°06'08"E	2.95	T90	S04°14'17"E	14.00
T41	N53°06'08"W	19.60	T91	S83°10'44"W	13.50
T42	S55°01'09"E	21.03	T92	N85°44'01"E	5.00
T43	S89°59'20"W	41.08	T93	N03°42'36"W	20.00
T44	N51°10'11"W	63.80	T94	S86°50'47"W	5.00
T45	N47°01'45"W	109.11	T95	S75°57'43"E	25.74
T46	N36°53'52"E	103.86	T96	S00°17'50"W	121.37
T47	N36°53'52"E	23.78	T97	S47°03'05"E	54.96
T48	S51°10'11"E	13.80	T98	S36°53'52"W	55.78
T49	N51°26'49"W	14.05	T99	S89°59'20"W	12.92
T50	N47°01'45"W	63.50	T100	N87°37'13"W	39.48

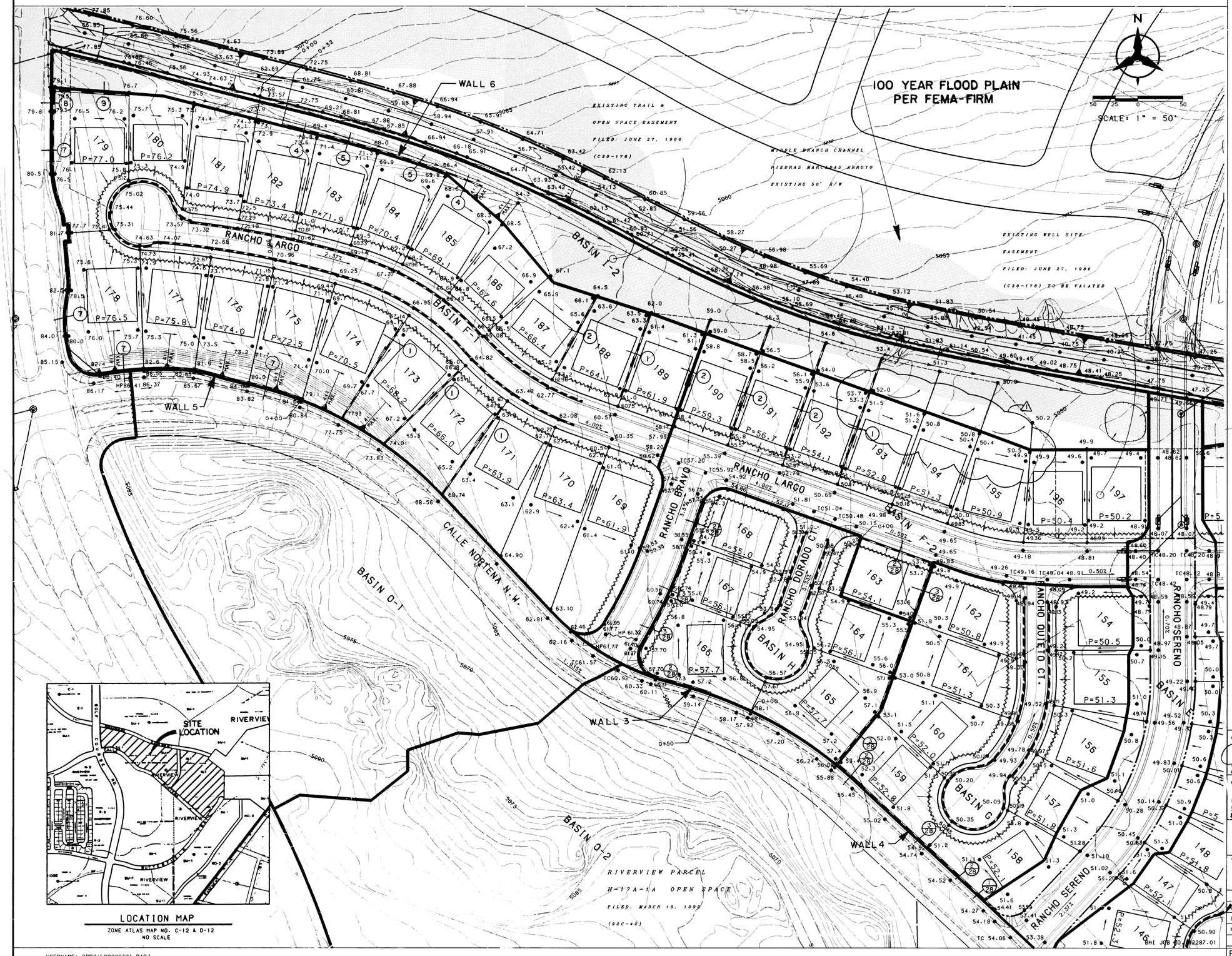
JOB NO. 92287.83

SHEET 3 OF 3 SHEETS

SCANNED BY BY LASON

SURV+ [S92287B3] SHEET3.GRF


PLAT OF
RANCHO SERENO SUBDIVISION UNIT 2
ALBUQUERQUE, NEW MEXICO
SEPTEMBER, 1993
"2-C11"
ACS Aluminum Cap
Geographic Position (NAD 1927)
N.M. State Plane Coordinates (Central Zone)
X= 368,000.84 Y= 1,522,042.88
Ground-to-Grid Factor = 0.9996687
ΔX = -00°15'16"
Elevation = 5252 (TRIG.)
N32°30'36"W 2,638.08 (TIE)
EXIST. 10' UTIL. ESMT. 6/27/86 (C30/178)
PUBLIC WATERLINE AND SANITARY SEWER ESMT GRANTED TO THE CITY OF ALBUQUERQUE WITH THE FILING OF THIS PLAT
RIVERVIEW PARCEL H-17B Filed: June 27, 1986 Vol. C30, Folio 178
EXIST. TRAIL & OPEN SPACE EASEMENT Filed: June 27, 1986 (Vol. C30, Folio 178)
SCALE: 1" = 100'
LEGEND
SUBDIVISION BOUNDARY LINE
NEW LOT LINE
ADJOINING PROPERTY LINE
EXISTING EASEMENT LINE
FND 5/8" REBAR WITH PLASTIC CAP STAMPED "LS 4078"
FND 5/8" REBAR WITH PLASTIC CAP STAMPED "WEAVER LS 6544"
FND AMAFCA BRASS CAP
RIVERVIEW PARCEL H-11B Filed: December 29, 1987 Vol. C35, Folio 105
"R. ALAMEDA B. No.2"
Corps of Engineers Brass Cap
Geographic Position (NAD 1927)
N.M. State Plane Coordinates (Central Zone)
X= 373,513.20 Y= 1,520,142.81
Ground-to-Grid Factor = 0.99967638
ΔX = -00°14'38"
Elevation = 5058.25
POINT OF BEGINNING
N70°15'41"E 2509.21 (TIE)
TRACT A (TO BE ACQUIRED BY AMAFCA FOR DRAINAGE RIGHT-OF-WAY)
PIEDRAS MARCADAS DAM (ESTATE OF BESSIE L. HUGHES) Filed: June 29, 1984 Vol. C24, Folio 92
SEE DETAIL "C"
SEE DETAIL "B"
TRACT E
TRACT D
TRACT B
TRACT C
PIEDRAS MARCADAS
RANCHO ARROYO LARGO
50' DRAINAGE R/W
GOLF COURSE ROAD (106' R/W)
CALLE NORTENA
RANCHO BRAVO DR.
RANCHO DORADO CT.
RANCHO QUIETO CT.
RANCHO SERENO DRIVE
RANCHO ALEGRE ROAD
RANCHO ENCANTO ROAD
LOS METATES RD.
BUTTERFIELD TRAIL NW (50' R/W)
LEGEND
CENTERLINE MONUMENTATION SEE NOTE 8, SHEET 1 OF 3
NOTES:
1. Vacated Well Site Easement (V-93-30).
2. Vacated Temporary Turnaround & Public Access Easement (V-93-46).
3. Underlying 50' Pedestrian Access, Drainage & Utility Easement Filed May 20, 1992 (Vol.92-C, Folio 95) within dedicated Los Metates Road NW rights-of-way.
4. Underlying Blanket Drainage Easements upon these tracts vacated by Quitclaim Deed from AMAFCA Board of Directors, filed _____, 1993 as Document Nos. _____ and _____ respectively, and approved by the DRB as V-93-30.
RIVERVIEW PARCELS PARCEL H-17A-1A Filed March 19, 1992 Vol. 92-C, Folio 42
10' WIDE PUBLIC WATERLINE EASEMENT GRANTED TO THE CITY OF ALBUQUERQUE WITH THE FILING OF THIS PLAT
10' WIDE PUBLIC UTILITY EASEMENT GRANTED WITH THE FILING OF THIS PLAT (TYPICAL ALL LOTS) SEE NOTES SHEET 1 OF 3
PUBLIC STORM DRAIN & SANITARY SEWER EASEMENT GRANTED TO THE CITY OF ALBUQUERQUE WITH THE FILING OF THIS PLAT
5' WIDE PRIVATE DRAINAGE EASEMENT GRANTED WITH THE FILING OF THIS PLAT (TYPICAL TR. D & LOTS 86 THRU 153)
10' UTILITY ESMT. Filed: May 20, 1992 (Vol. 92-C, Folio 95)
RIVERVIEW ESTATES Filed: October 8, 1993 Vol. 92-C, Folio 221
RANCHO SERENO SUBD. UNIT 1 Filed: April 22, 1993 Vol. 93-C, Folio 112
EXIST. 40' DRAINAGE & SANITARY SEWER ESMT. Filed: April 28, 1989 (Vol. C39, Folio 29)
DETAIL "C"
DETAIL "A"
DETAIL "B"
EXIST. 10' PUBLIC UTILITY ESMT. Filed: May 20, 1992 (Vol. 92-C, Folio 95)
EXIST. 10' UTILITY ESMT. Filed: June 27,



LOCATION MAP

ZONE ATLAS MAP NO. C-12 & D-12

NO SCALE

USERNAME: CDP2:[C9228701.PAD]
FILENAME: GRADE1.GRF

LEGEND

PROJECT BOUNDARY	
EXISTING CONTOUR	
EXISTING SPOT ELEVATION	⊙19.25
PROPOSED SPOT ELEVATION	●05.70
DIRECTION OF FLOW	S=2.564%
BASIN BOUNDARY	
EROSION CONTROL BERM	
PROPOSED RETAINING WALL	
EXISTING STORM DRAIN LINE	—SD—
EXISTING STORM DRAIN MANHOLE	
EXISTING STORM DRAIN INLET	
PROPOSED STORM DRAIN LINE	—SD—
PROPOSED STORM DRAIN MANHOLE	
PROPOSED STORM DRAIN INLET	
STANDARD CURB & GUTTER	
ROLL CURB & GUTTER	
STREET FLOW	Q_s=5.0CFS
PIPE FLOW	Q_p=5.0CFS
SHEET FLOW	Q=5.5CFS

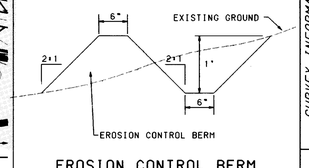
•ALL FLOWS SHOWN ARE 100 YEAR EVENT

EROSION CONTROL PLAN:

THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE LOTS INTO PUBLIC RIGHT-OF-WAY. THIS CAN BE ACHIEVED BY CONSTRUCTING TEMPORARY EROSION CONTROL BERMS AS PER DETAIL THIS SHEET AND WETTING THE SOIL REGULARLY TO KEEP IT FROM BLOWING.

LEGAL DESCRIPTION

RIVERVIEW TRACT H-18A-1
RIVERVIEW TRACT H-17A-1B2



EROSION CONTROL BERM

NO SCALE

A BERM WITH THE DIMENSIONS SHOWN SHALL BE MAINTAINED DURING CONSTRUCTION UNTIL COMPLETION OF INDIVIDUAL HOMES WITHIN THE PROJECT.

GENERAL GRADING NOTES:

1. THE CONTRACTOR MUST OBTAIN A TOPSOIL DISTURBANCE PERMIT FROM THE CITY OF ALBUQUERQUE, ENVIRONMENTAL HEALTH DIV., PRIOR TO CONSTRUCTION.

2. THE CONTRACTOR IS TO REFER TO THE EARTHWORK SPECIFICATIONS NOTED IN THE GEOTECHNICAL INVESTIGATION REPORT PREPARED BY VINEYARD AND ASSOCIATES, DATED JUNE 16, 1993 AND SUPPLIED BY THE OWNER.

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, PERMITS AND APPROVALS.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
216 4569.930494

APPROVED FOR ROUGH GRADING (± 1')

A.M.A.F.C.A. — DATE 7/8/93

APPROVED FOR ROUGH GRADING (± 1')

HYDROLOGY ENGINEER — DATE 07-07-93

AS BUILT INFORMATION

CONTRACTOR New Concepts		
WORK STAKED BY New Concepts	DATE 3-94	
ACCEPTANCE BY R. Rutledge	DATE 3-94	
FIELD VERIFICATION BY New Concepts	DATE 3-94	
DRAWINGS CORRECTED BY New Concepts	DATE 3-94	

MICRO-FILM INFORMATION

RECORDED BY	DATE
NO.	

BENCH MARKS

STATION MARK IS A STANDARD USC&GS 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

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEERS SEAL

7-6-93
9-13-93

REVISIONS

NO.	DATE	REMARKS	BY
1	8/16/93	CHANGES TO SPOT ELEVATIONS	KLD

DESIGNED BY	KLD	DATE 7/93
DRAWN BY	SAR	DATE 7/93
CHECKED BY	KLD	DATE 7/93

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: RANCHO SERENO SUBDIVISION
UNIT II
FINAL GRADING & DRAINAGE PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	Billy Gunley	10-07-93	WATER	N/A RWK	9-9-93
TRANS. DEV.	N/A	9-09-93	WASTE WATER	N/A RWK	9-9-93
HYDROLOGY		07/09/93	A.M.A.F.C.A.		7/8/93 *

PROJECT NO.	MAP NO.	SHEET	OF
4569.93	C-12 D-12	4	28

* Rough Grading Only.

SCANNED BY BY LASON

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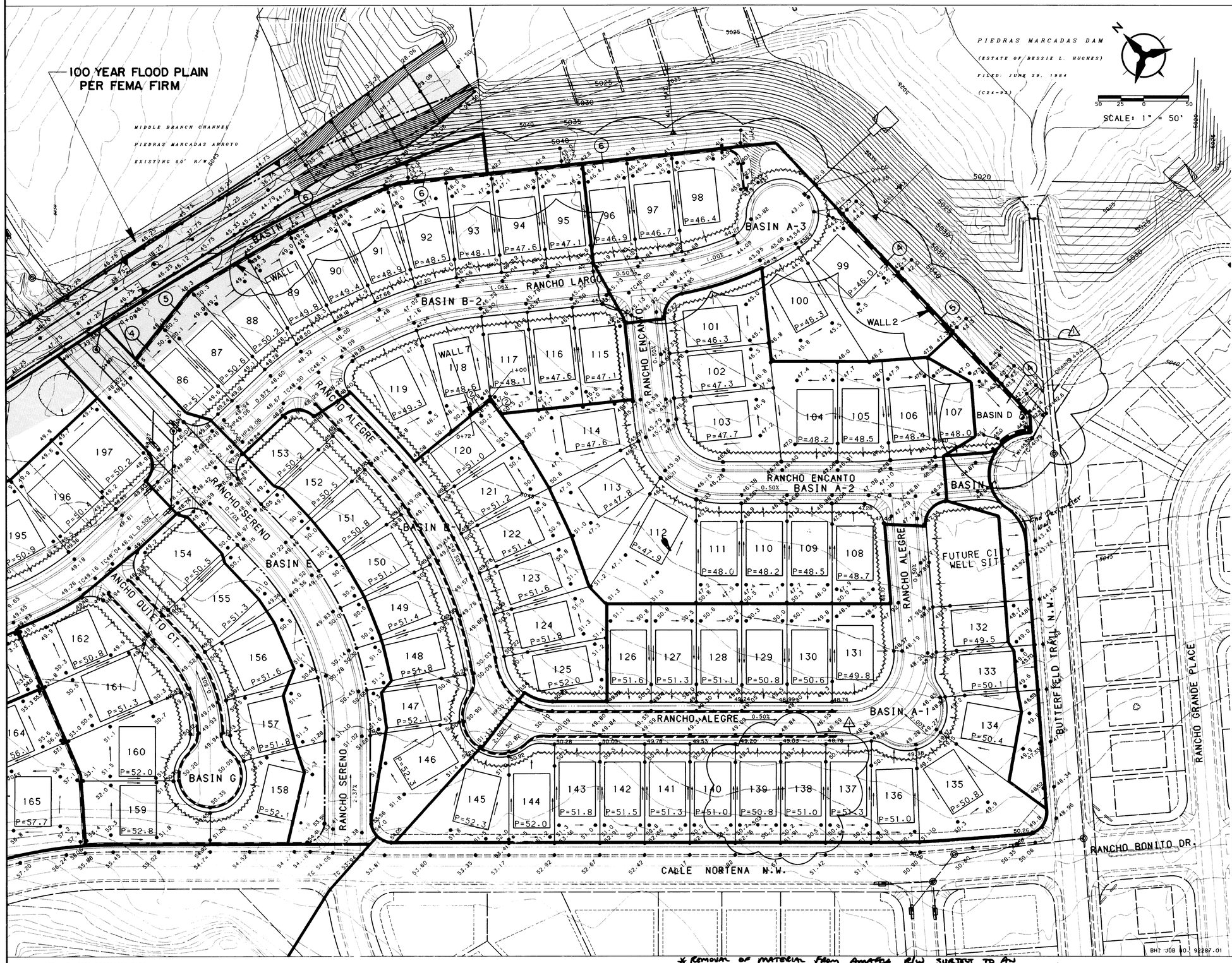


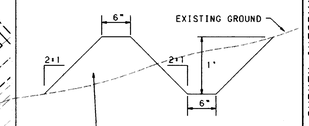
LEGEND

PROJECT BOUNDARY	
EXISTING CONTOUR	
EXISTING SPOT ELEVATION	⊙19.25
PROPOSED SPOT ELEVATION	●05.70
DIRECTION OF FLOW	S=2.564%
BASIN BOUNDARY	
EROSION CONTROL BERM	
PROPOSED RETAINING WALL	
EXISTING STORM DRAIN LINE	—SD—
EXISTING STORM DRAIN MANHOLE	◎
EXISTING STORM DRAIN INLET	▫
PROPOSED STORM DRAIN LINE	—SD—
PROPOSED STORM DRAIN MANHOLE	◎
PROPOSED STORM DRAIN INLET	
STANDARD CURB & GUTTER	
ROLL CURB & GUTTER	
STREET FLOW	Q_s=5.0CFS
PIPE FLOW	Q_p=5.0CFS
SHEET FLOW	Q=5.5CFS

*ALL FLOWS SHOWN ARE 100 YEAR EVENT

EROSION CONTROL PLAN:

THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE LOTS INTO PUBLIC RIGHT-OF-WAY. THIS CAN BE ACHIEVED BY CONSTRUCTING TEMPORARY EROSION CONTROL BERMS AS PER DETAIL THIS SHEET AND WETTING THE SOIL REGULARLY TO KEEP IT FROM BLOWING.



EROSION CONTROL BERM

NO SCALE

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1 2 3 4 5 6 7 8 9 10 11 12 13 14
26 4569.930594

APPROVED FOR ROUGH GRADING (± 1')
A.M.A.F.C.A. — DATE 7/8/93

APPROVED FOR ROUGH GRADING (± 1')
HYDROLOGY ENGINEER — DATE 07-07-93

AS BUILT INFORMATION
CONTRACTOR New Concepts
WORK STAKED BY New Concepts DATE 2-94
ASBUILT CHECKED BY R. Rutledge DATE 2-94
FIELD VERIFICATION BY New Concepts DATE 2-94
DRAWINGS CORRECTED BY New Concepts DATE 2-94
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
STATION MARK IS A STANDARD USC&GS 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, 6.7 MILES. THE STATION IS 450' WEST OF STATE RD. 448 IN A FENCED-IN PRAIRIE. ELEV.= 5049.93

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEERS SEAL

NO.	DATE	REMARKS	BY
1	8/17/93	CHANGES TO SPOTS & RET. WALLS	KJS

REVISIONS

DESIGNED BY	KLD	DATE 7/93
DRAWN BY	SAR	DATE 7/93
CHECKED BY	KLD	DATE 7/93

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: RANCHO SERENO SUBDIVISION
UNIT II
FINAL GRADING & DRAINAGE PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN		10-07-93	WATER	N/A RWK	9-9-93
TRANS. DEV.	N/A	9-09-93	WASTE WATER	N/A RWK	9-9-93
HYDROLOGY		09/09/93	A.M.A.F.C.A.	* CJG	7/6/93 *

PROJECT NO.	MAP	SHEET	OF
4569.93	C-12 D-12	5	28

* REMOVAL OF MATERIAL FROM AMAFCA R/W SUBJECT TO AN EXECUTED "SEDIMENT SALE PERMIT" FROM AMAFCA - Approved for rough grading only.

USERNAME: CDP2+[C9228701.PAD]
FILENAME: GRADE2.GRF

BHI JOB NO. 92287.01

SCANNED BY BY LASON

Copyright Bohannan-Huston, Inc. 1993

USERNAME: CDP2*[C9228701.PAD]
FILENAME: DAM1.GRF

LEGEND

PROJECT BOUNDARY	
EXISTING CONTOUR	
EXISTING SPOT ELEVATION	○19.25
PROPOSED SPOT ELEVATION	●05.70
DIRECTION OF FLOW	S=2.564%
BASIN BOUNDARY	
EROSION CONTROL BERM	
PROPOSED RETAINING WALL	
EXISTING STORM DRAIN LINE	—SD—
EXISTING STORM DRAIN MANHOLE	
EXISTING STORM DRAIN INLET	
PROPOSED STORM DRAIN LINE	—SD—
PROPOSED STORM DRAIN MANHOLE	
PROPOSED STORM DRAIN INLET	
STANDARD CURB & GUTTER	
ROLL CURB & GUTTER	
STREET FLOW	Q_a=5.0CFS
PIPE FLOW	Q_p=5.0CFS
SHEET FLOW	Q=5.5CFS

*ALL FLOWS SHOWN ARE 100 YEAR EVENT

EROSION CONTROL PLAN:

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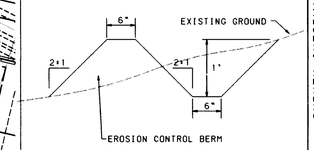

EROSION CONTROL BERM

NO SCALE

A BERM WITH THE DIMENSIONS SHOWN SHALL BE MAINTAINED DURING CONSTRUCTION UNTIL COMPLETION OF INDIVIDUAL HOMES WITHIN THE PROJECT.

GENERAL GRADING NOTES:

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1 2 3 4 5 6 7 8 9 10 11 12 13 14
26 4569.930694

APPROVED FOR ROUGH GRADING (± 1')
A.M.A.F.C.A. — DATE 7/8/93

APPROVED FOR ROUGH GRADING (± 1')
HYDROLOGY ENGINEER — DATE 07-07-93

AS BUILT INFORMATION
CONTRACTOR New Concepts
WORK STAKED BY New Concepts DATE 3-94
ACCEPTANCE BY R. Romero DATE 3-94
FIELD VERIFICATION BY New Concepts DATE 3-94
DRAWINGS CORRECTED BY New Concepts DATE 3-94
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
STATION MARK IS A STANDARD USC&GS 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

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEERS SEAL

REVISIONS

NO.	DATE	REMARKS	BY

DESIGN		DATE 7/93
DESIGNED BY	KLD	DATE 7/93
DRAWN BY	SAR	DATE 7/93
CHECKED BY	KLD	

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

RANCHO SERENO SUBDIVISION - UNIT II
FINAL GRADING & DRAINAGE PLAN
PIEDRAS MARCADAS DAM BASIN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	Billy Gallegos	10-07-93	WATER	N/A	RWE 9-9-93
TRANS. DEV.	N/A	9.09.93	WASTE WATER	N/A	RWE 9-9-93
HYDROLOGY		09/09/93	A.M.A.F.C.A.	*	7/6/93

* REMOVAL OF MATERIAL FROM AMAFCA R/W SUBJECT TO AN EXECUTED "SEDIMENT SALE PERMIT" FROM AMAFCA - + Approval for rough grading only

PROJECT NO. 4569.93 | MAP NO. C-12 D-12 | SHEET 6 OF 28

SCANNED BY BY LASON

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USERNAME: CDP2:[C9228701.PAD]
FILENAME: DAM2.GRF

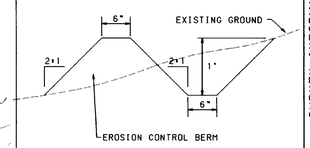
LEGEND

PROJECT BOUNDARY	
EXISTING CONTOUR	
EXISTING SPOT ELEVATION	⊙19.25
PROPOSED SPOT ELEVATION	●05.70
DIRECTION OF FLOW	S=2.564%
BASIN BOUNDARY	
EROSION CONTROL BERM	
PROPOSED RETAINING WALL	
EXISTING STORM DRAIN LINE	—SD—
EXISTING STORM DRAIN MANHOLE	
EXISTING STORM DRAIN INLET	
PROPOSED STORM DRAIN LINE	—SD—
PROPOSED STORM DRAIN MANHOLE	
PROPOSED STORM DRAIN INLET	
STANDARD CURB & GUTTER	
ROLL CURB & GUTTER	
STREET FLOW	Q_s=5.0CFS
PIPE FLOW	Q_p=5.0CFS
SHEET FLOW	Q=5.5CFS

*ALL FLOWS SHOWN ARE 100 YEAR EVENT

EROSION CONTROL PLAN:

THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE LOTS INTO PUBLIC RIGHT-OF-WAY. THIS CAN BE ACHIEVED BY CONSTRUCTING TEMPORARY EROSION CONTROL BERMS AS PER DETAIL THIS SHEET AND WETTING THE SOIL REGULARLY TO KEEP IT FROM BLOWING.



EROSION CONTROL BERM

NO SCALE

A BERM WITH THE DIMENSIONS SHOWN SHALL BE MAINTAINED DURING CONSTRUCTION UNTIL COMPLETION OF INDIVIDUAL HOMES WITHIN THE PROJECT.

GENERAL GRADING NOTES:

1. THE CONTRACTOR MUST OBTAIN A TOPSOIL DISTURBANCE PERMIT FROM THE CITY OF ALBUQUERQUE, ENVIRONMENTAL HEALTH DIV., PRIOR TO CONSTRUCTION.

2. THE CONTRACTOR IS TO REFER TO THE EARTHWORK SPECIFICATIONS NOTED IN THE GEOTECHNICAL INVESTIGATION REPORT PREPARED BY VINEYARD AND ASSOCIATES, DATED JUNE 16, 1993 AND SUPPLIED BY THE OWNER.

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, PERMITS AND APPROVALS.

1 2 3 4 5 6 7 8 9 10 11 12 13 14
ZG 4569.930794

APPROVED FOR ROUGH GRADING (± 1')
7/8/93
A.M.A.F.C.A. DATE

APPROVED FOR ROUGH GRADING (± 1')
07-07-93
HYDROLOGY ENGINEER DATE

AS BUILT INFORMATION

CONTRACTOR Ken Concepts
WORK STAKED BY Ken Concepts DATE 2-94
ACCEPTANCE BY R. Rinkens DATE 2-94
FIELD VERIFICATION BY Ken Concepts DATE 2-94
DRAWINGS CORRECTED BY Ken Concepts DATE 3-94
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

STATION MARK IS A STANDARD USC&GS 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

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEERS SEAL

REVISIONS

NO.	DATE	REMARKS	BY

DESIGN

		DATE
DESIGNED BY	KLD	7/93
DRAWN BY	SAR	7/93
CHECKED BY	KLD	7/93

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

RANCHO SERENO SUBDIVISION - UNIT II
FINAL GRADING & DRAINAGE PLAN
PIEDRAS MARCADAS DAM BASIN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN		10-07-93	WATER	N/A RWK	9-9-93
TRANS. DEV.	N/A	9-29-93	WASTE WATER	N/A RWK	9-9-93
HYDROLOGY		09/09/93	A.M.A.F.C.A.	*	7/6/93

PROJECT NO.	MAP	SHEET OF
4569.93	C-12 D-12	7 28

* Removal of material from AMAFCA R/W subject to an executed "sediment sale permit" from AMAFCA. - Approval for rough grading only.

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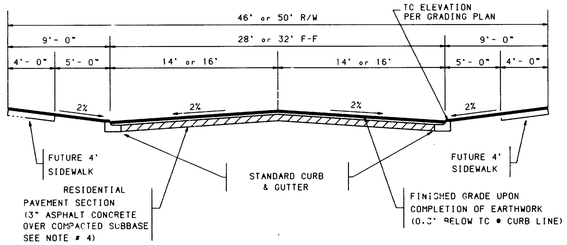
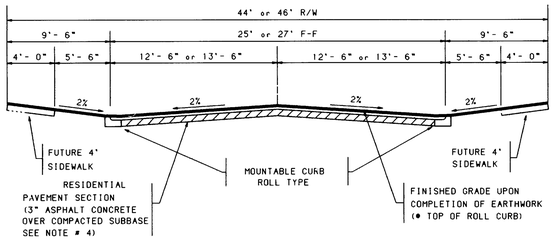
SCANNED BY BY LASON



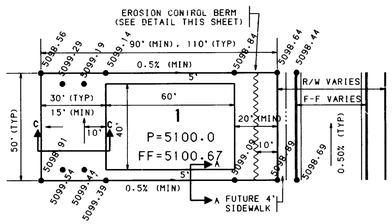
TYPICAL STREET SECTION #1 (STD CURB)

NO SCALE



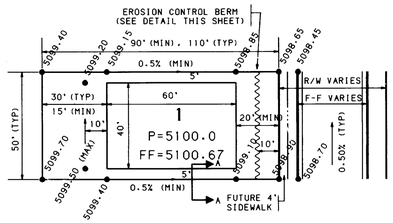
TYPICAL STREET SECTION #2 (ROLL CURB)

NO SCALE



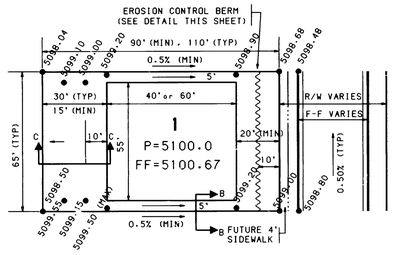
TYPICAL LOT GRADING PLAN

NO SCALE
(TYPICAL FOR SPLIT DRAINED LOTS 86-153)



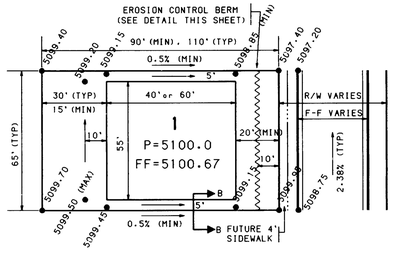
TYPICAL LOT GRADING PLAN

NO SCALE
(TYPICAL FOR FRONT DRAINED LOTS 86-153)



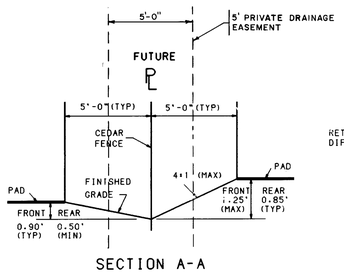
TYPICAL LOT GRADING PLAN

NO SCALE
(TYPICAL FOR SPLIT DRAINED LOTS 154-197)



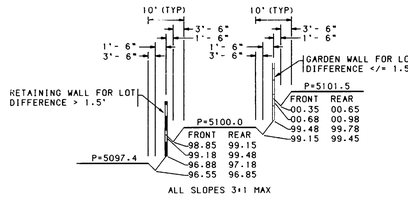
TYPICAL LOT GRADING PLAN

NO SCALE
(TYPICAL FOR FRONT DRAINED LOTS LOTS 154-197)



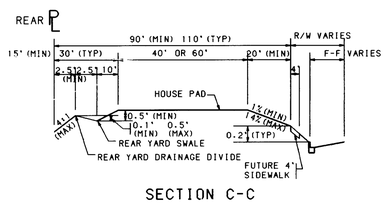
SECTION A-A
TYPICAL SIDELOT GRADING PLAN

NO SCALE
(TYPICAL FOR LOTS 86-153 EXCEPT WHERE NOTED OTHERWISE. SEE SECTION B-B FOR LOT DIFFERENCE > 0.5')



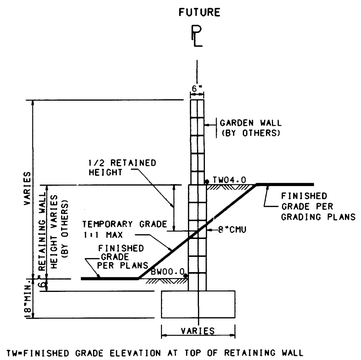
SECTION B-B
TYPICAL SIDELOT GRADING PLAN

NO SCALE
(TYPICAL FOR LOTS 154-197 AND LOTS 86-153, WHERE SPECIFICALLY NOTED)



SECTION C-C
TYPICAL LOT GRADING PROFILE

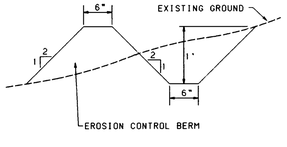
NO SCALE
(TYPICAL FOR ALL SPLIT DRAINED LOTS) (SPLIT DRAINAGE)



TW=FINISHED GRADE ELEVATION AT TOP OF RETAINING WALL
BW=FINISHED GRADE ELEVATION AT BOTTOM OF RETAINING WALL

TYPICAL RETAINING WALL GRADING DETAIL

NO SCALE
(RETAINAGE HEIGHT IS TAKEN TO BE DIFFERENCE IN FINISHED GRADES ON LEFT AND RIGHT SIDE OF WALL)



EROSION CONTROL BERM

NO SCALE

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2. THE CONTRACTOR IS TO REFER TO THE EARTHWORK SPECIFICATIONS NOTED IN THE GEOTECHNICAL INVESTIGATION REPORT PREPARED BY VINEYARD AND ASSOCIATES, DATED JUNE 16, 1993 AND SUPPLIED BY THE OWNER.

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, PERMITS AND APPROVALS.

4. FINISHED GRADE IN ROADWAY SECTIONS IS BASED UPON MATERIAL IMPORTED DURING EARTHWORK BEING ACCEPTABLE FOR ROADWAY SUBBASE.

EROSION CONTROL PLAN:

THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE LOTS INTO PUBLIC RIGHT-OF-WAY. THIS CAN BE ACHIEVED BY CONSTRUCTING TEMPORARY EROSION CONTROL BERMS AS PER DETAIL THIS SHEET AND WETTING THE SOIL REGULARLY TO KEEP IT FROM BLOWING.

GENERAL GRADING NOTES:

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AS BUILT INFORMATION
CONTRACTOR New Concepts Inc.
WORK STAKED BY New Concepts DATE 3-94
AS-BUILTS CHECKED BY R. Rourke DATE 3-94
ACCEPTANCE BY N.C.I. DATE 3-94
FIELD VERIFICATION BY N.C.I. DATE 3-94
DRAWINGS CORRECTED BY N.C.I. DATE 5-94
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
STATION MARK IS A STANDARD USC&GS 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

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEERS SEAL

REVISIONS

NO.	DATE	REMARKS	BY

DESIGNED BY KLD DATE 7/93
DRAWN BY MSJ DATE 7/93
CHECKED BY KLD DATE 7/93

APPROVED FOR ROUGH GRADING (± 1')
A.M.A.F.C.A. DATE 7/8/93

APPROVED FOR ROUGH GRADING (± 1')
HYDROLOGY ENGINEER DATE 07-07-93

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: RANCHO SERENO SUBDIVISION
UNIT II
GRADING & DRAINAGE DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN		10-07-93	WATER	N/A	9-9-93
TRANS. DEV.	N/A	9.09.93	WASTE WATER	N/A	9-9-93
HYDROLOGY		09/09/93	A.M.A.F.C.A.		7/8/93*

1 2 3 4 5 6 7 8 9 10 11 12
26 4569. 93 0894

BHI JOB NO. 92287.01

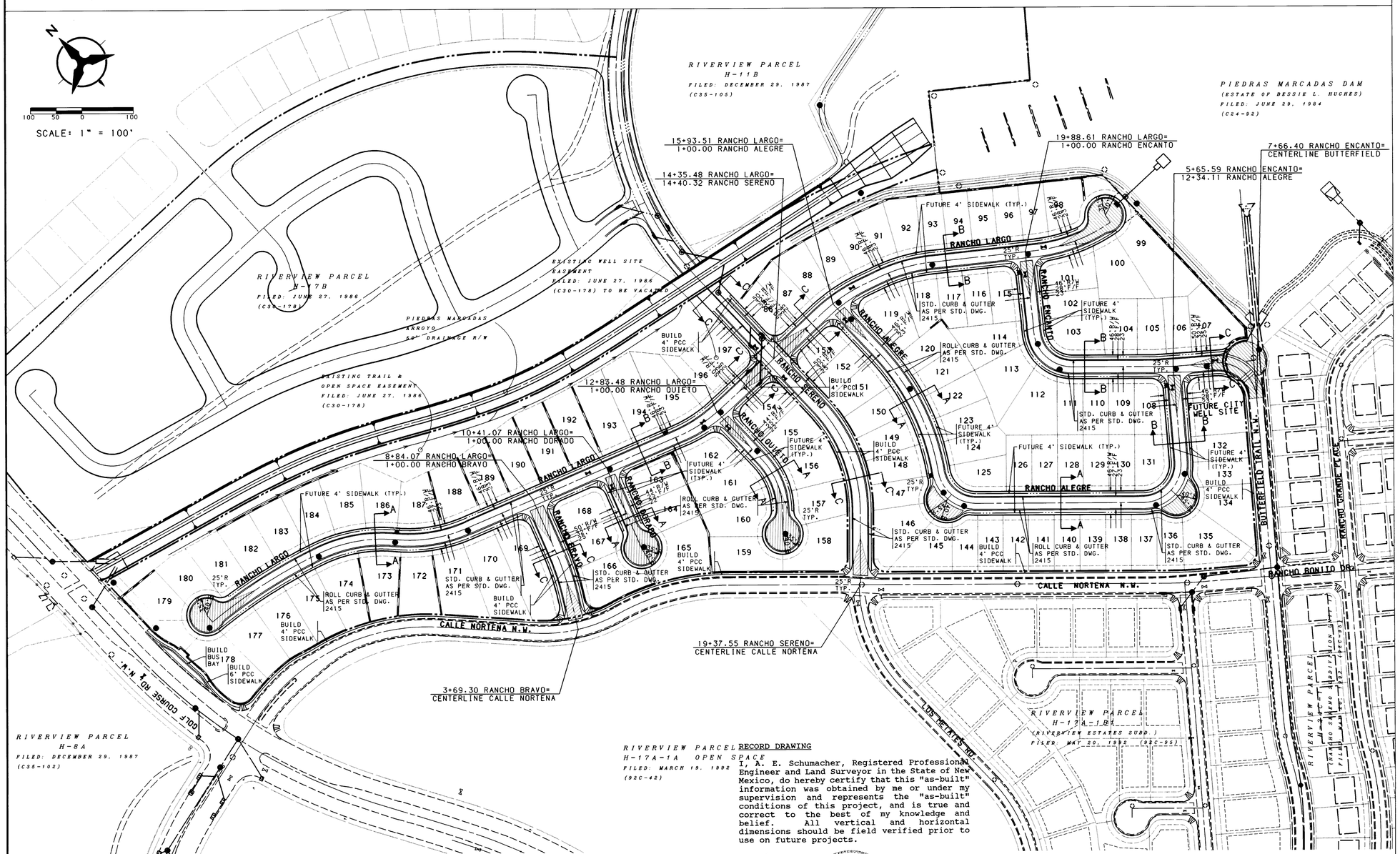
PROJECT NO. 4569.93 | MAP NO. C-12 D-12 | SHEET 8 OF 28

USERNAME: CDP2:[C9228701.PAD]
FILENAME: DETAILS.GRF

SCANNED BY BY LASON

* Approved for rough grading only.

Copyright Bohannan-Huston, Inc. 1993



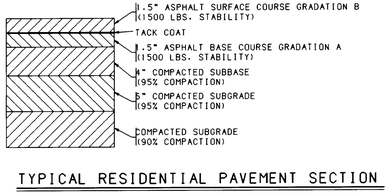
RECORD DRAWING

I, A. E. Schumacher, Registered Professional Engineer and Land Surveyor in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.

A. E. Schumacher
NMPE/LS No. 2360

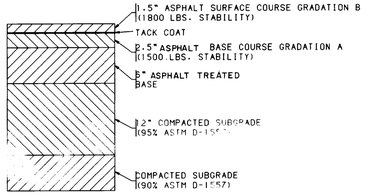
3/31/94
Date

STATE OF NEW MEXICO SCHUMACHER 2360 REGISTERED PROFESSIONAL ENGINEER & LAND SURVEYOR



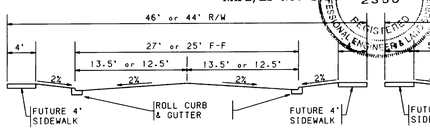
TYPICAL RESIDENTIAL PAVEMENT SECTION

NO SCALE



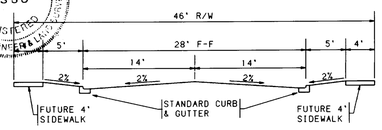
ARTERIAL PAVEMENT SECTION
(GOLF COURSE ROAD BUS BAY)

NO SCALE



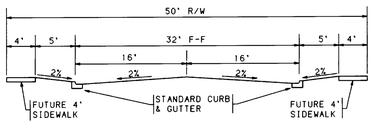
TYPICAL STREET SECTION A-A

NO SCALE



TYPICAL STREET SECTION B-B

NO SCALE



TYPICAL STREET SECTION C-C

NO SCALE

1 2 3 4 5 6 7 8 9 10 11 12
26 4569.930994

BHI JOB NO. 92287.01

SCANNED BY BY LASON

USERNAME: CDP2:[C92287O1.PAD]
FILENAME: PAVING.ORF

NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.

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 EMD 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

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

AS BUILT INFORMATION

CONTRACTOR New Concepts Inc.
WORK STAKED BY N.C.I. DATE 8/94
ACCEPTANCE BY Ro Ridge DATE 10/94
FIELD VERIFICATION BY N.C.I. DATE 1/94
DRAWINGS CORRECTED BY N.C.I. DATE 1/94
MICRO-FILM INFORMATION
RECORDED BY DATE
NO. DATE

BENCH MARKS

STATION MARK IS A STANDARD USC&GS 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

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEERS SEAL

LEON E. SAYRE 6934 NEW MEXICO PROFESSIONAL ENGINEER

REVISIONS

NO.	DATE	REMARKS	BY

DESIGN

		DATE
DESIGNED BY	KLD	8/93
DRAWN BY	SAR	8/93
CHECKED BY	KLD	8/93

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: RANCHO SERENO SUBDIVISION
UNIT II
OVERALL PAVING PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	Billy Goodwin	10-07-93	WATER	N/A RWF	9-9-93
TRANS. DEV.	[illegible]	9-27-93	WASTE WATER	N/A RWF	9-9-93
HYDROLOGY	[illegible]	09/09/93			

PROJECT NO. 4569.93 | MAP NO. C-12 D-12 | SHEET 9 OF 28

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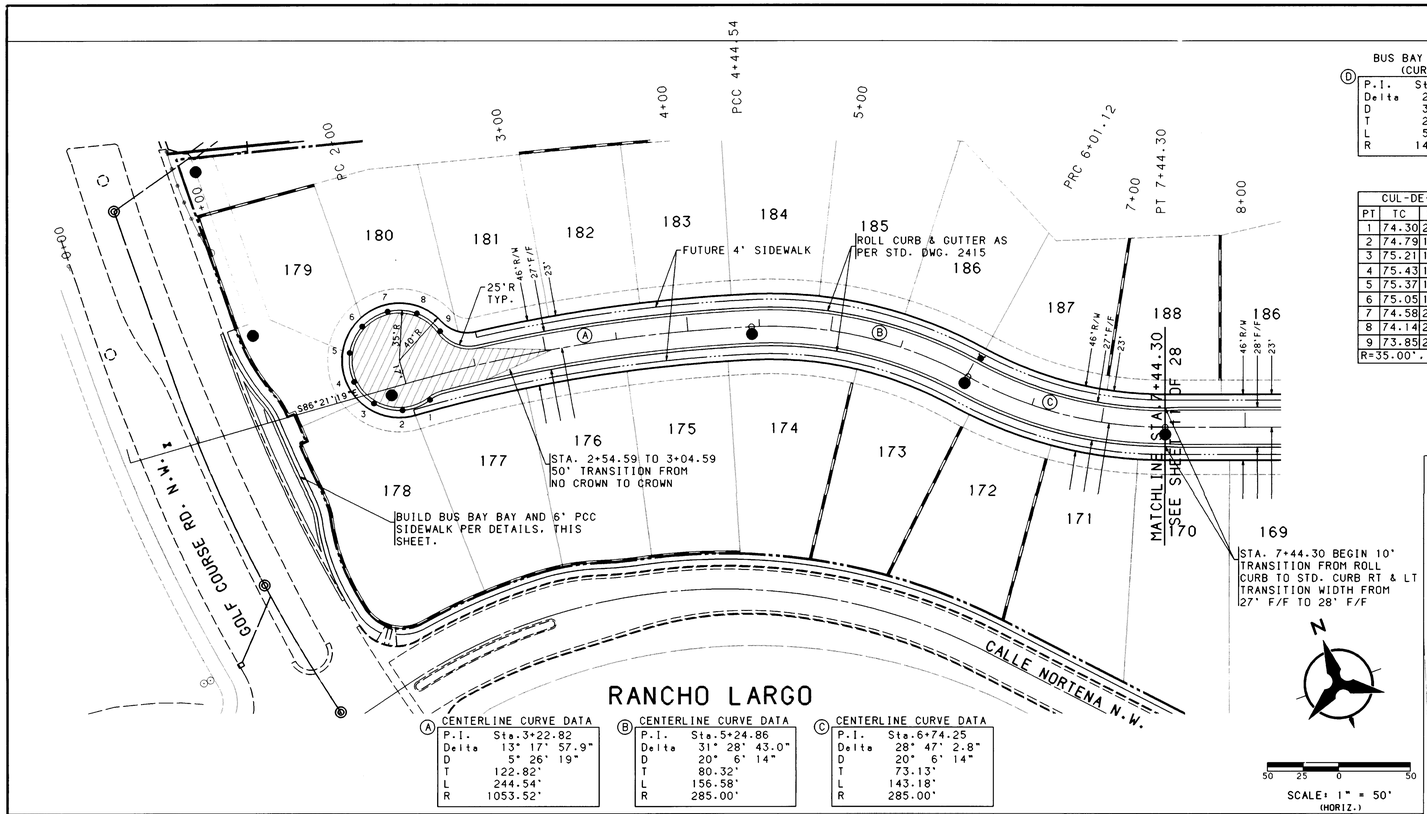


CENTERLINE CURVE DATA (A)	
P.I.	Sta.3+22.82
Delta	13° 17' 57.9"
D	5° 26' 19"
T	122.82'
L	244.54'
R	1053.52'

CENTERLINE CURVE DATA (B)	
P.I.	Sta.5+24.86
Delta	31° 28' 43.0"
D	20° 6' 14"
T	80.32'
L	156.58'
R	285.00'

CENTERLINE CURVE DATA (C)	
P.I.	Sta.6+74.25
Delta	28° 47' 2.8"
D	20° 6' 14"
T	73.13'
L	143.18'
R	285.00'

BUS BAY CURVE DATA (CURB FACE) (D)	
P.I.	Sta.1+40.70
Delta	22° 0' 9.6"
D	38° 27' 13"
T	28.97'
L	57.22'
R	149.00'

BUS BAY CURVE DATA (CURB FACE) (E)	
P.I.	Sta.1+73.61
Delta	18° 4' 44.0"
D	112° 20' 41"
T	8.11'
L	16.09'
R	51.00'

BUS BAY CURVE DATA (CURB FACE) (F)	
P.I.	Sta.2+14.75
Delta	3° 19' 36.7"
D	5° 29' 17"
T	30.32'
L	60.62'
R	1044.00'

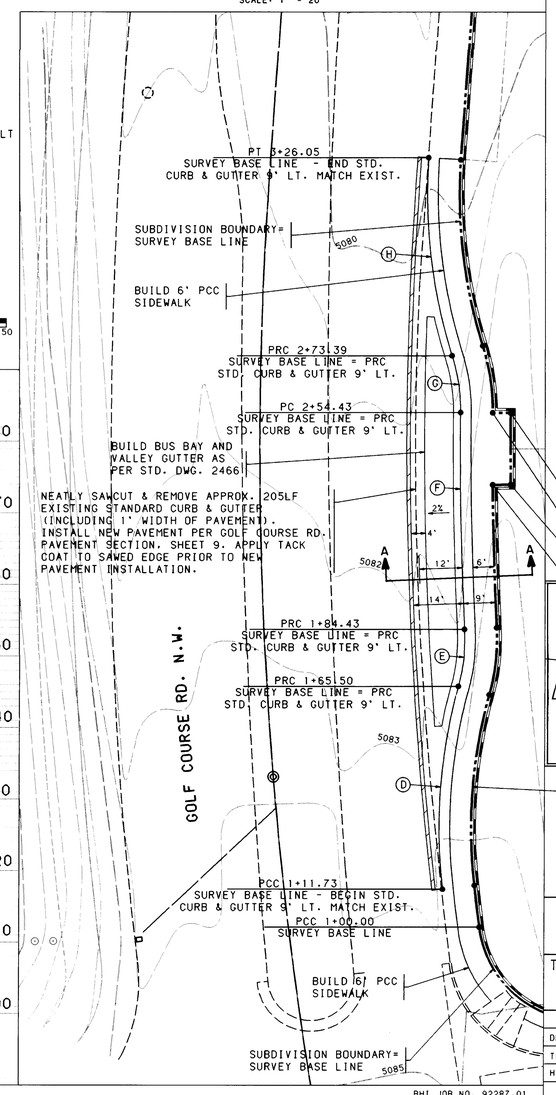
BUS BAY CURVE DATA (CURB FACE) (G)	
P.I.	Sta.2+62.55
Delta	18° 6' 10.7"
D	112° 20' 41"
T	8.12'
L	16.11'
R	51.00'

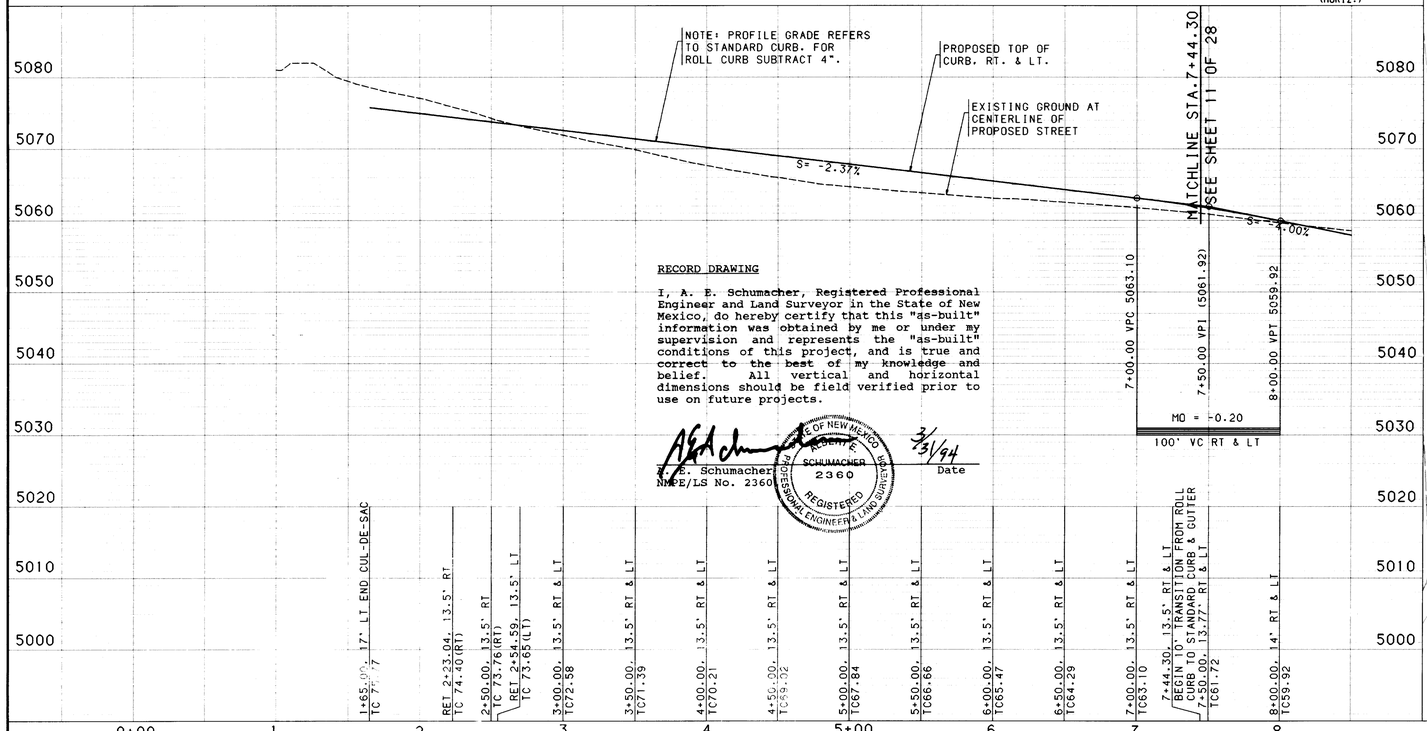
BUS BAY CURVE DATA (CURB FACE) (H)	
P.I.	Sta.3+01.75
Delta	21° 33' 14.2"
D	38° 27' 13"
T	28.36'
L	56.05'
R	149.00'

CUL-DE-SAC CURB DATA (ROLL CURB)			
PT	TC	STATION & OFFSET	DELTA
1	74.30	2+13.14, 15.44'RT.	
2	74.79	1+92.54, 17.19'RT.	34°01'34"
3	75.21	1+74.68, 7.16'RT.	34°01'34"
4	75.43	1+65.49, 11.14'LT.	34°01'34"
5	75.37	1+68.12, 31.45'LT.	34°01'34"
6	75.05	1+81.67, 46.82'LT.	34°01'34"
7	74.58	2+01.42, 51.97'LT.	34°01'34"
8	74.14	2+19.95, 45.34'LT.	34°01'34"
9	73.85	2+32.11, 29.19'LT.	34°01'34"
R=35.00', L=20.79' (BETWEEN POINTS)			

BUS BAY DETAIL

SCALE: 1" = 20'





RECORD DRAWING

I, A. E. Schumacher, Registered Professional Engineer and Land Surveyor in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.

A. E. Schumacher 3/3/94
A. E. Schumacher Date
NMPE/LS No. 2360

STATE OF NEW MEXICO A. E. SCHUMACHER 2360 REGISTERED PROFESSIONAL ENGINEER & LAND SURVEYOR

BHI JOB NO. 92287.01

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

USERNAME: CDP2:[C9228701.PNP]
FILENAME: LARGO1-PAVE.GRF

NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.

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 EMD 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.

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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 New Concepts Inc
WORK STAKED BY NCI DATE 9/94
ACCEPTANCE BY R. Rutledge DATE 9/94
FIELD VERIFICATION BY NCI DATE 9/94
DRAWINGS CORRECTED BY NCI DATE 9/94
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
STATION MARK IS A STANDARD USC&GS 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

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEERS SEAL

NO.	DATE	REMARKS	BY
		REVISIONS	

		DATE
DESIGNED BY	KLD	8/93
DRAWN BY	SAR	8/93
CHECKED BY	KLD	8/93

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
26 4569 93 10 94

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: RANCHO SERENO SUBDIVISION - UNIT II
PAVING PLAN & PROFILE
RANCHO LARGO 0+00.00 to 7+44.30

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	Billy Goodloe	10-07-93	WATER	N/A RWK	9-9-93
TRANS. DEV.	[illegible]	9-09-93	WASTE WATER	N/A RWK	9-9-93
HYDROLOGY	[illegible]	09/09/93			

PROJECT NO.	MAP NO.	SHEET OF
4569.93	C-12 D-12	10 28

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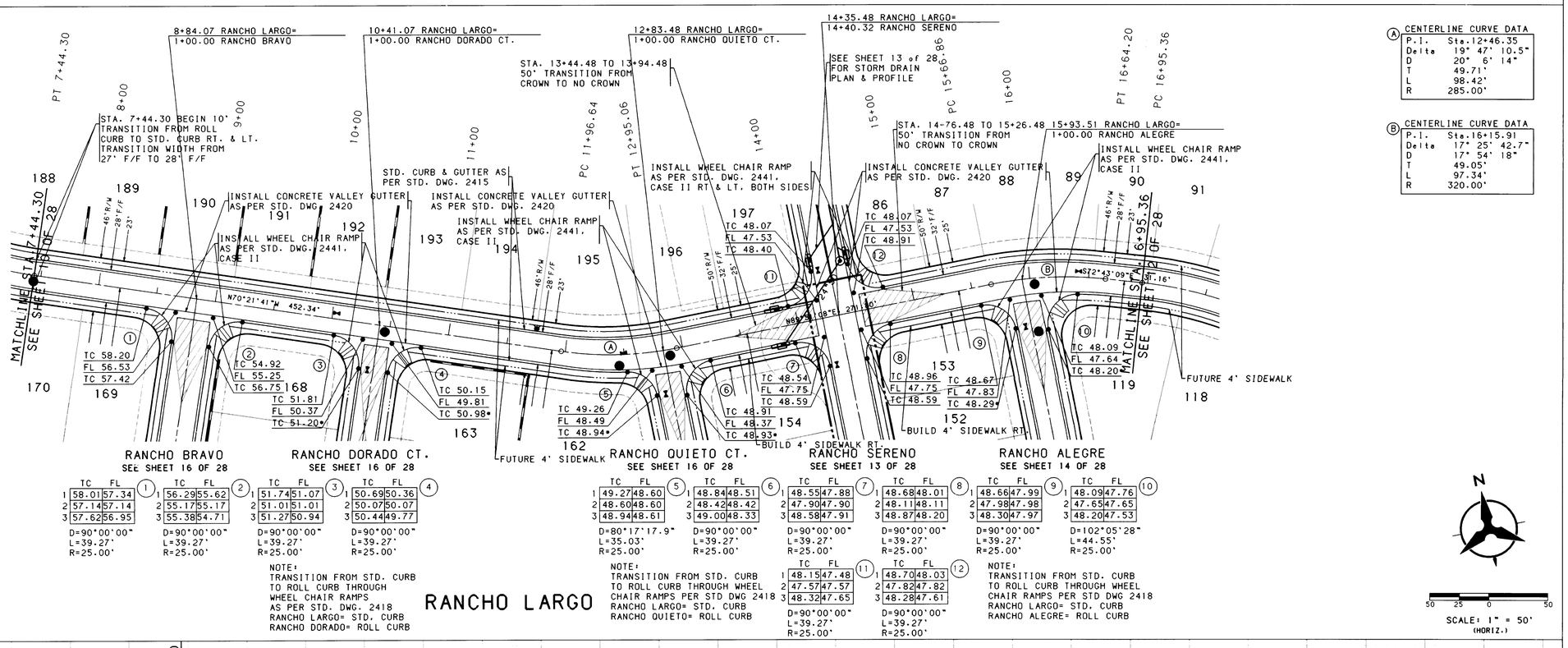
SCANNED BY BY LASON



(A) CENTERLINE CURVE DATA	
P.I.	Sta.12+46.35
Delta	19° 47' 10.5"
D	20° 6' 14"
T	49.71'
L	98.42'
R	285.00'

(B) CENTERLINE CURVE DATA	
P.I.	Sta.16+15.91
Delta	17° 25' 42.7"
D	17° 54' 18"
T	49.05'
L	97.34'
R	320.00'

	TC	FL
1	58.01	57.34
2	57.14	57.14
3	57.62	56.95

(1) D=90°00'00" L=39.27' R=25.00'

	TC	FL
1	56.29	55.62
2	55.17	55.17
3	55.38	54.71

(2) D=90°00'00" L=39.27' R=25.00'

	TC	FL
1	51.74	51.07
2	51.01	51.01
3	51.27	50.94

(3) D=90°00'00" L=39.27' R=25.00'

	TC	FL
1	50.69	50.36
2	50.07	50.07
3	50.44	49.77

(4) D=90°00'00" L=39.27' R=25.00'

NOTE: TRANSITION FROM STD. CURB TO ROLL CURB THROUGH WHEEL CHAIR RAMPS AS PER STD. DWG. 2418 RANCHO LARGO= STD. CURB RANCHO DORADO= ROLL CURB

	TC	FL
1	49.27	48.60
2	48.60	48.60
3	48.94	48.61

(5) D=80°17'17.9" L=35.03' R=25.00'

	TC	FL
1	48.84	48.51
2	48.42	48.42
3	49.00	48.33

(6) D=90°00'00" L=39.27' R=25.00'

	TC	FL
1	48.55	47.88
2	47.90	47.90
3	48.58	47.91

(7) D=90°00'00" L=39.27' R=25.00'

	TC	FL
1	48.68	48.01
2	48.11	48.11
3	48.87	48.20

(8) D=90°00'00" L=39.27' R=25.00'

	TC	FL
1	48.66	47.99
2	47.98	47.98
3	48.30	47.97

(9) D=90°00'00" L=39.27' R=25.00'

	TC	FL
1	48.09	47.76
2	47.65	47.65
3	48.20	47.53

(10) D=102°05'28" L=44.55' R=25.00'

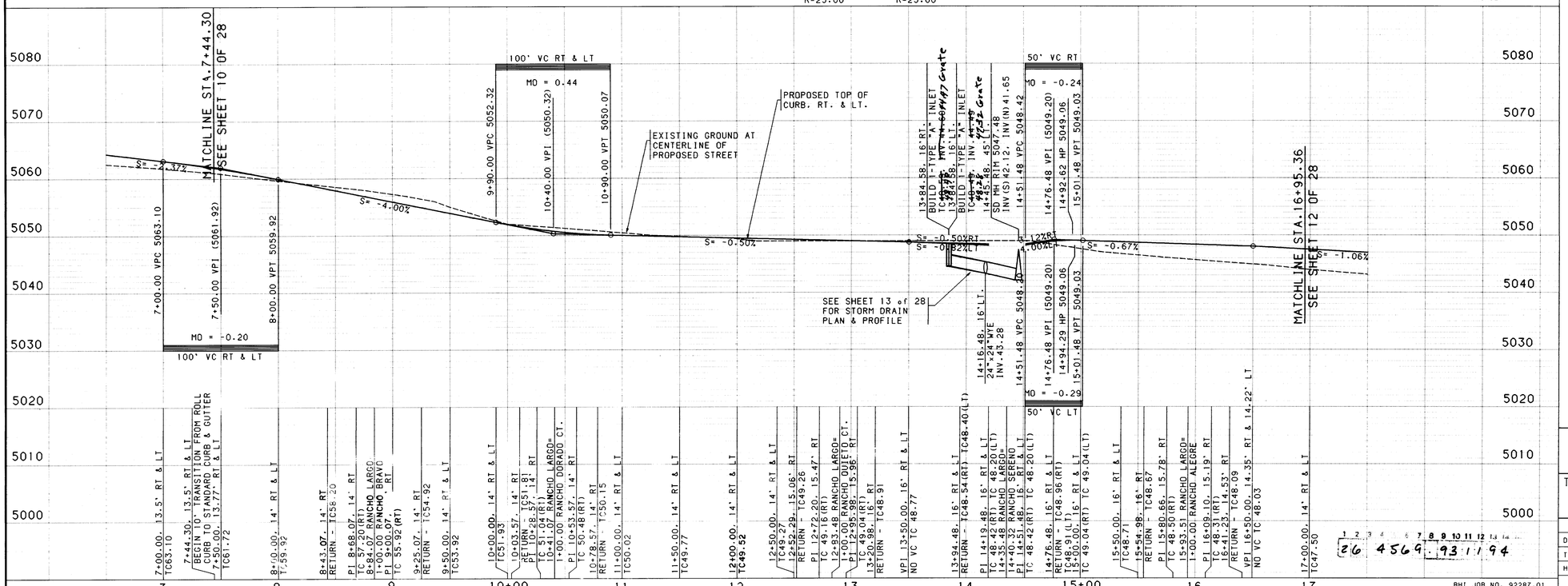
	TC	FL
1	48.15	47.48
2	47.57	47.57
3	48.32	47.65

(11) D=90°00'00" L=39.27' R=25.00'

	TC	FL
1	48.70	48.03
2	47.82	47.82
3	48.28	47.61

(12) D=90°00'00" L=39.27' R=25.00'

NOTE: TRANSITION FROM STD. CURB TO ROLL CURB THROUGH WHEEL CHAIR RAMPS PER STD DWG 2418 RANCHO LARGO= STD. CURB RANCHO ALEGRE= ROLL CURB



USERNAME: CDP2:[C9228701.PNP]
FILENAME: LARGO2-PAVE.GRF

NOTES

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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

RECORD DRAWING

I, A. E. Schumacher, Registered Professional Engineer and Land Surveyor in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.

A. E. Schumacher 3/31/94
NMPE/LS No. 2360 Date

STATE OF NEW MEXICO ALBERT E. SCHUMACHER 2360 REGISTERED PROFESSIONAL ENGINEER & LAND SURVEYOR

AS BUILT INFORMATION
CONTRACTOR New Concepts Inc.
WORK STAKED BY NCI DATE 4/94
ACCEPTANCE BY R. Rutledge DATE 4/94
FIELD VERIFICATION BY NCI DATE 4/94
DRAWINGS CORRECTED BY NCI DATE 4/94
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

NO.	DATE	STATION MARK IS A STANDARD USC&GS 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

SURVEY INFORMATION

NO.	BY	DATE	FIELD NOTES

ENGINEERS SEAL

REVISIONS

NO.	DATE	REMARKS	BY

DESIGN

DESIGNED BY	KLD	DATE 8/93
DRAWN BY	SAR	DATE 8/93
CHECKED BY	KLD	DATE 8/93

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: RANCHO SERENO SUBDIVISION - UNIT II
PAVING PLAN & PROFILE
RANCHO LARGO 7+44.30 to 16+95.36

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN			WATER	N/A RWK	9-9-93
TRANS. DEV.		10-07-93	WASTE WATER	N/A RWK	9-9-93
HYDROLOGY		09-09-93			

26 4569.93 1194

PROJECT NO.	MAP	SHEET OF
4569.93	C-12 D-12	11 28

SCANNED BY BY LASON

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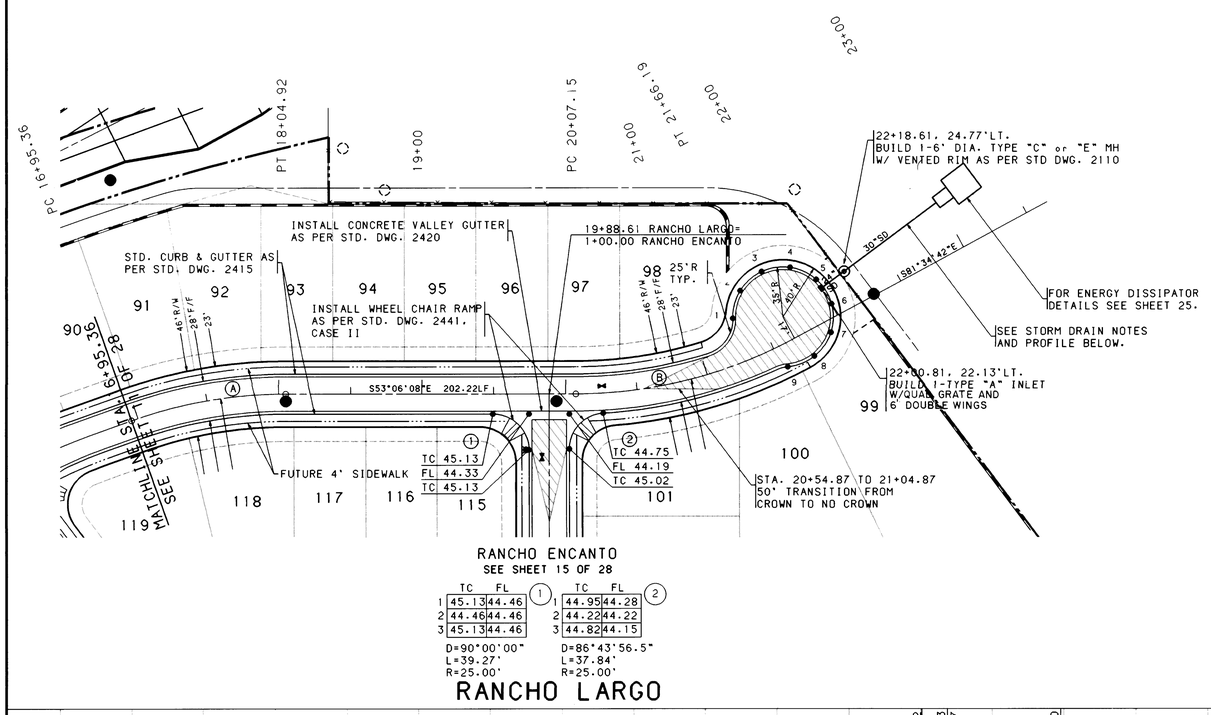

RANCHO ENCANTO
SEE SHEET 15 OF 28

	TC	FL
1	45.13	44.46
2	44.46	44.46
3	45.13	44.46

D=90°00'00"
L=39.27'
R=25.00'

	TC	FL
1	44.95	44.28
2	44.22	44.22
3	44.82	44.15

D=86°43'56.5"
L=37.84'
R=25.00'

RANCHO LARGO

Ⓐ CENTERLINE CURVE DATA

P.I.	Sta.17+50.68
Delta	19° 37' 1.5"
D	17° 54' 18"
T	55.32'
L	109.56'
R	320.00'

Ⓑ CENTERLINE CURVE DATA

P.I.	Sta.20+88.35
Delta	28° 28' 33.9"
D	17° 54' 18"
T	81.20'
L	159.04'
R	320.00'

CUL-DE-SAC CURB DATA

PT	TC	STATION & OFFSET	DELTA
1	43.82	21+31.54, 31.14'LT	33°15'43"
2	43.68	21+45.77, 46.80'LT	33°15'43"
3	43.45	21+68.28, 51.94'LT	33°15'43"
4	43.27	21+87.10, 45.07'LT	33°15'43"
5	43.15	21+99.06, 29.00'LT	33°15'43"
6	43.13	22+00.26, 9.00'LT	33°15'43"
7	43.23	21+90.29, 8.37'RT	33°15'43"
8	43.41	21+72.43, 17.44'RT	33°15'43"
9	43.60	21+53.15, 15.50'RT	33°15'43"
R=35.00', L=20.32' (BETWEEN POINTS)			

SCALE: 1" = 50' (HORIZ.)

NOTES

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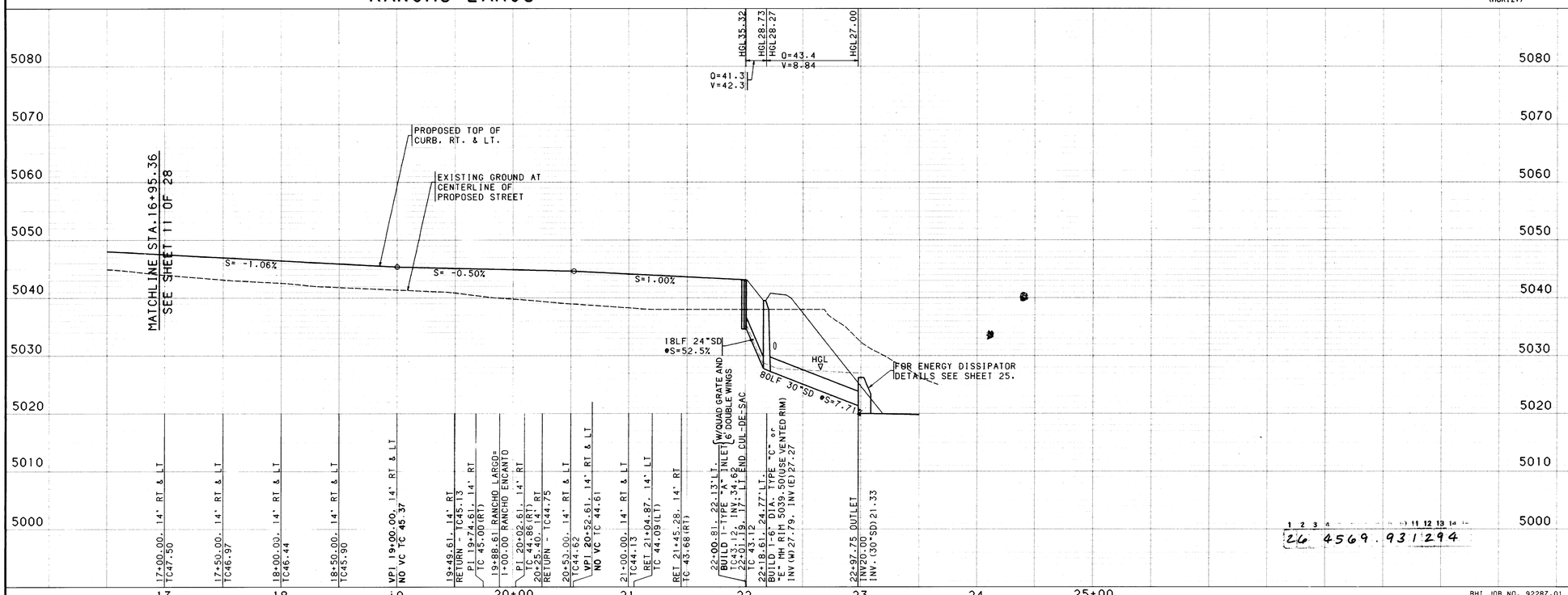
COMPANY	PHONE	CONTACT
PNM	848-3374	TOM BACA
US WEST	245-6694	BECKY OLESEN
GAS CO.	761-7770	LEO APODACA
JONES	761-6200	YVETTE SUAZO

14. NOTIFY AMAFCA 2 DAYS PRIOR TO WORK ON STORM DRAIN OUTFALL.

15. AMAFCA SHALL BE NOTIFIED AND GIVEN OPPORTUNITY TO INSPECT ENERGY DISSIPATOR STEEL PLACEMENT PRIOR TO POURING CONCRETE.



BHI JOB NO. 92287.01

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

USERNAME: CDP2:[C92287O1.PNP]
FILENAME: LARGO3-PAVE.GRF

SCANNED BY
BY LASON

RECORD DRAWING

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A. E. Schumacher
NMPE/LS No. 2360

3/31/94
Date

STATE OF NEW MEXICO
SCHUMACHER
2360
REGISTERED
PROFESSIONAL ENGINEER & LAND SURVEYOR

AS BUILT INFORMATION
CONTRACTOR New Concepts Inc. DATE 3/94
WORK STAKED BY NCI DATE 3/94
INSPECTOR'S ACCEPTANCE BY R. Rutledge DATE 3/94
FIELD VERIFICATION BY NCI DATE 3/94
DRAWINGS CORRECTED BY NCI DATE 3/94
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

NO.	DATE	
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SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEERS SEAL

REVISIONS

NO.	DATE	REMARKS	BY

DESIGN

		DATE
DESIGNED BY	KLD	8/93
DRAWN BY	SAR	8/93
CHECKED BY	KLD	8/93

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: RANCHO SERENO SUBDIVISION - UNIT II
PAVING PLAN & PROFILE
RANCHO LARGO 16+95.36 to 25+00.00

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	Billy Arnfelly	10-07-93	WATER	N/A RWK	9-9-93
TRANS. DEV.	R Bowk	9-09-93	WASTE WATER	N/A RWK	9-9-93
HYDROLOGY	D. Allen	09/09/93			
	AMAFCA	9/24/93			

PROJECT NO.	MAP NO.	SHEET
4569.93	C-12 D-12	12 OF 28

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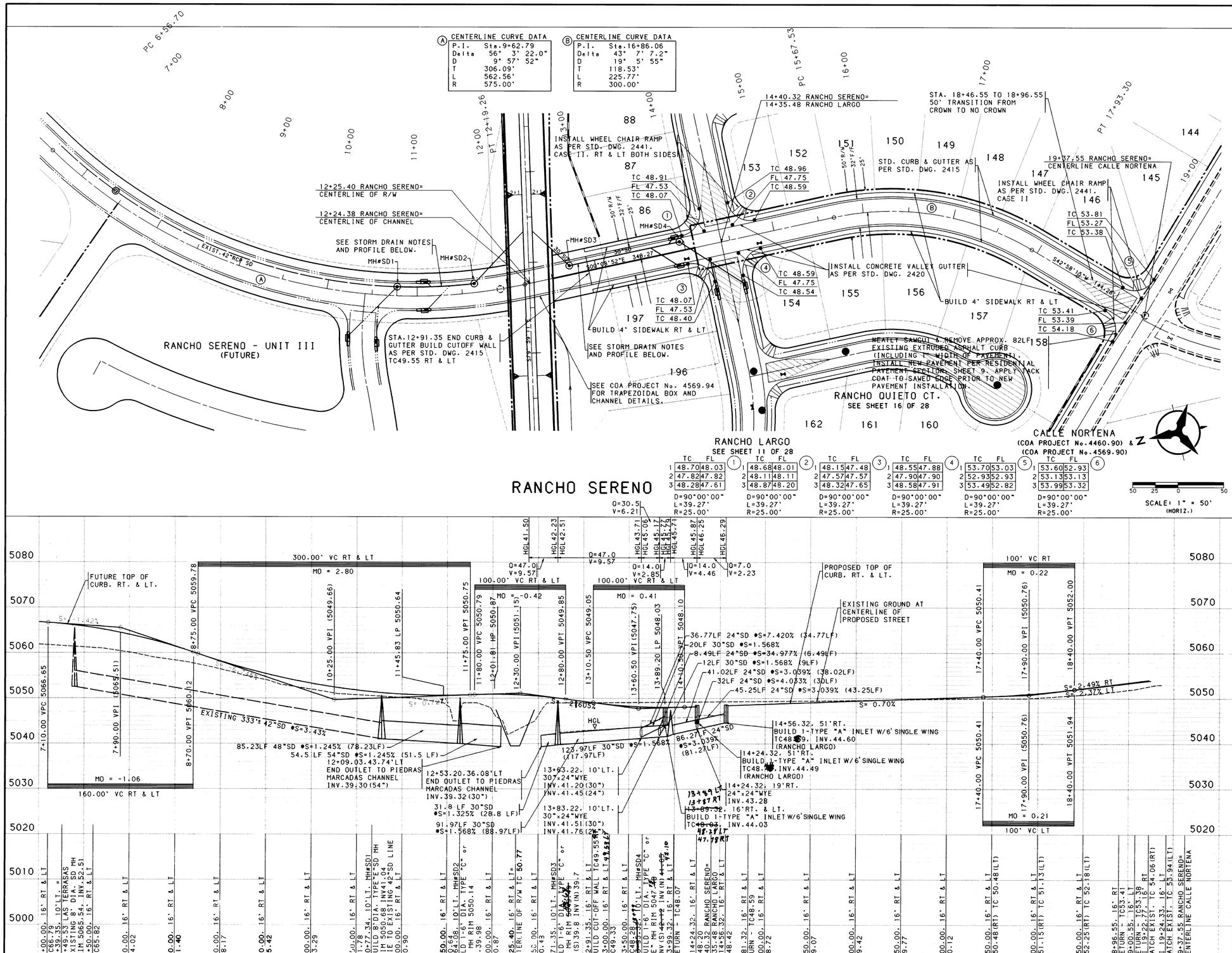

NOTES

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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

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A. E. Schumacher
NMPE/LS No. 2360

3/30/94
Date

STATE OF NEW MEXICO
SCHUMACHER
2360
REGISTERED
PROFESSIONAL ENGINEER & LAND SURVEYOR

26 4569.931394

AS BUILT INFORMATION
CONTRACTOR New Concepts Inc
SURVEYED BY NCI DATE 3/94
INSPECTOR'S ACCEPTANCE BY R.Ritledge DATE 4/94
FIELD VERIFICATION BY NCI DATE 4/94
WORK ORDER CORRECTED BY NCI DATE 4/94
MICRO-FILM INFORMATION
RECORDED BY DATE
NO. DATE

BENCH MARKS

STATION MARK IS A STANDARD USC&GS 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

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEERS SEAL

REVISIONS

NO.	DATE	REMARKS	BY

		DATE
DESIGNED BY	KLD	8/93
DRAWN BY	SAR	8/93
CHECKED BY	KLD	8/93

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: RANCHO SERENO SUBDIVISION - UNIT II
PAVING PLAN & PROFILE
RANCHO SERENO

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	Billy Gordon	10-07-93	WATER	N/A RWK	9-9-93
TRANS. DEV.	[illegible]	9-29-93	WASTE WATER	N/A RWK	9-9-93
HYDROLOGY	[illegible]	09/29/93			
AMAFCA	Bob Kelly	9-24-93			

PROJECT NO.	MAP	SHEET
4569.93	C-12 D-12	13 OF 28

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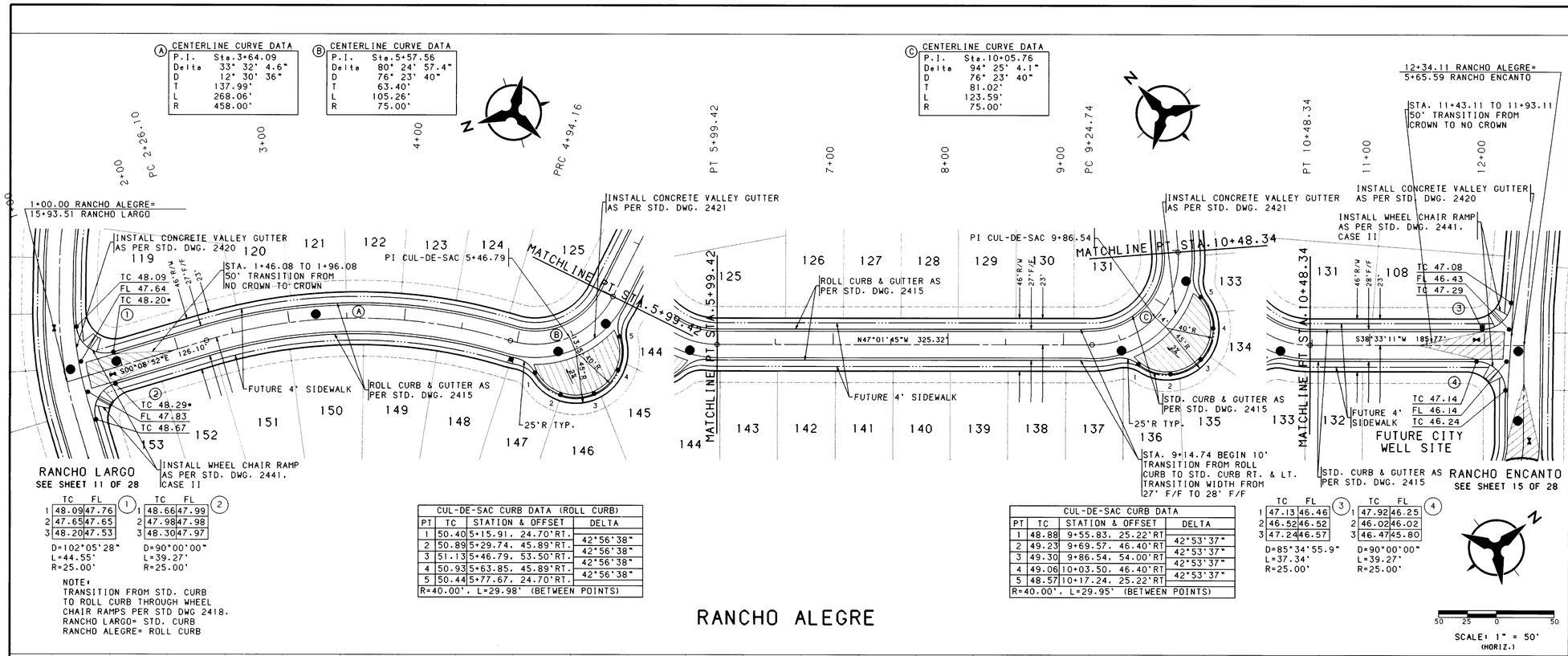
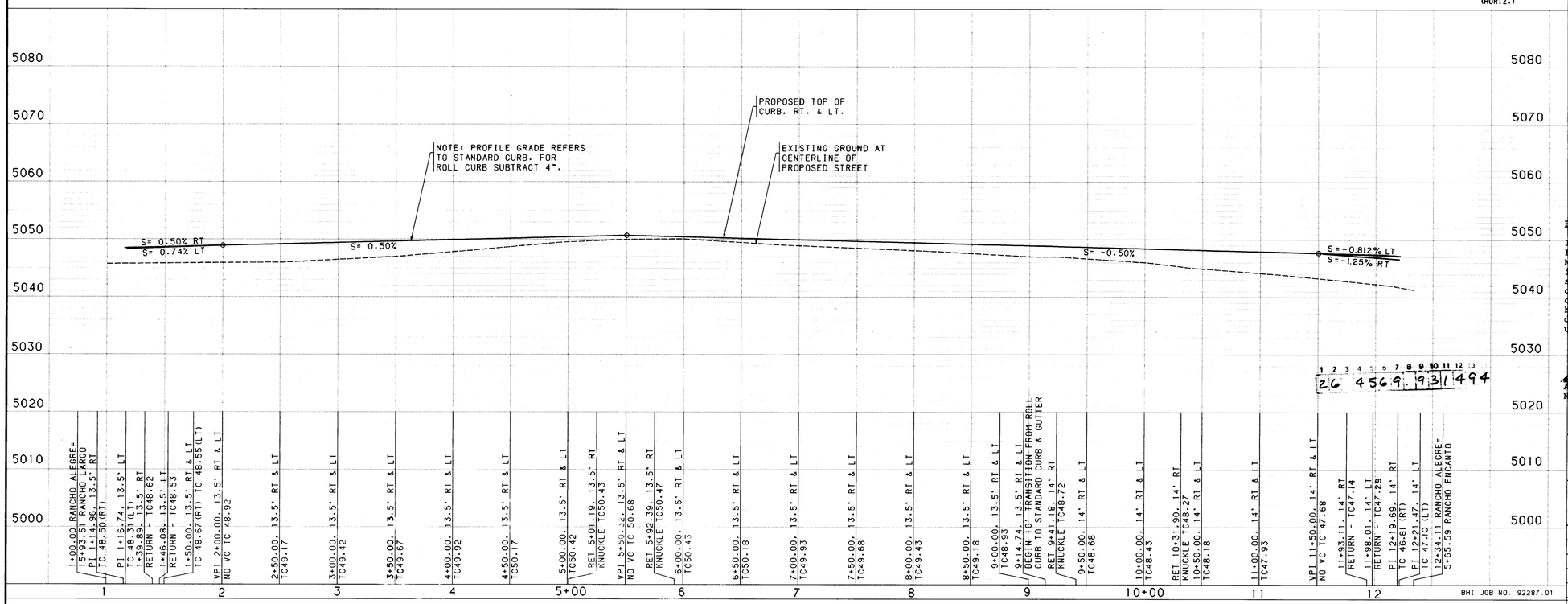


CUL-DE-SAC CURB DATA (ROLL CURB)			
PT	TC	STATION & OFFSET	DELTA
1	50.40	5+15.91, 24.70'RT.	42°56'38"
2	50.89	5+29.74, 45.89'RT.	42°56'38"
3	51.13	5+46.79, 53.50'RT.	42°56'38"
4	50.93	5+63.85, 45.89'RT.	42°56'38"
5	50.44	5+77.67, 24.70'RT.	
R=40.00', L=29.98' (BETWEEN POINTS)			

CUL-DE-SAC CURB DATA			
PT	TC	STATION & OFFSET	DELTA
1	48.88	9+55.83, 25.22'RT	42°53'37"
2	49.23	9+69.57, 46.40'RT	42°53'37"
3	49.30	9+86.54, 54.00'RT	42°53'37"
4	49.06	10+03.50, 46.40'RT	42°53'37"
5	48.57	10+17.24, 25.22'RT	
R=40.00', L=29.95' (BETWEEN POINTS)			

RANCHO ALEGRE



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FILENAME: ALEGRE-PAVE.GRF

SCANNED BY BY LASON

NOTES

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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

RECORD DRAWING

I, A. E. Schumacher, Registered Professional Engineer and Land Surveyor in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.

A. E. Schumacher
NMPE/LS No. 2360

3/31/94
Date

STATE OF NEW MEXICO ROBERT E. SCHUMACHER 2360 REGISTERED PROFESSIONAL ENGINEER & LAND SURVEYOR

AS BUILT INFORMATION
CONTRACTOR Raw Concepts Inc. DATE 8/94
WORK STAKED BY MCI DATE 4/94
INSPECTOR'S ACCEPTANCE BY R. Ratledge DATE 4/94
FIELD VERIFICATION BY MCI DATE 4/94
DRAWINGS CORRECTED BY MCI DATE 4/94
MICRO-FILM INFORMATION
RECORDED BY DATE
NO. GO NORTH ON STATE RD. 448, 6.1 MILES.
THE STATION IS 450' WEST OF STATE RD. 448 IN A FENCED-IN PRAIRIE.

BENCH MARKS
STATION MARK IS A STANDARD USC&GS 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.
ELEV.= 5049.93

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEERS SEAL

REVISIONS
NO. DATE BY REMARKS
DESIGN
DESIGNED BY KLD DATE 8/93
DRAWN BY SAR DATE 8/93
CHECKED BY KLD DATE 8/93

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: RANCHO SERENO SUBDIVISION - UNIT II
PAVING PLAN & PROFILE
RANCHO ALEGRE

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN		10-07-93	WATER	N/A	9-9-93
TRANS. DEV.		9-09-93	WASTE WATER	N/A	9-9-93
HYDROLOGY		09/09/93			

PROJECT NO. 4569.93 | MAP NO. C-12 D-12 | SHEET 14 OF 28

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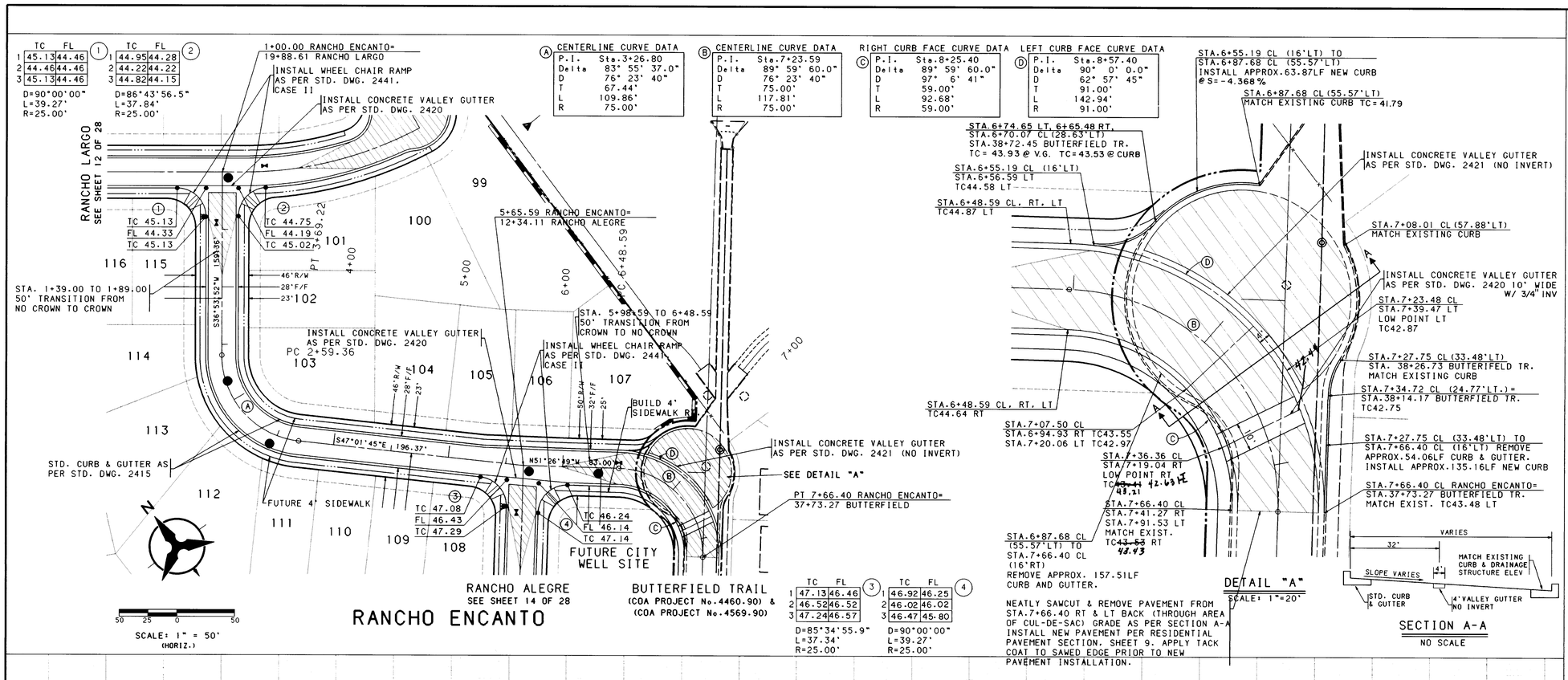

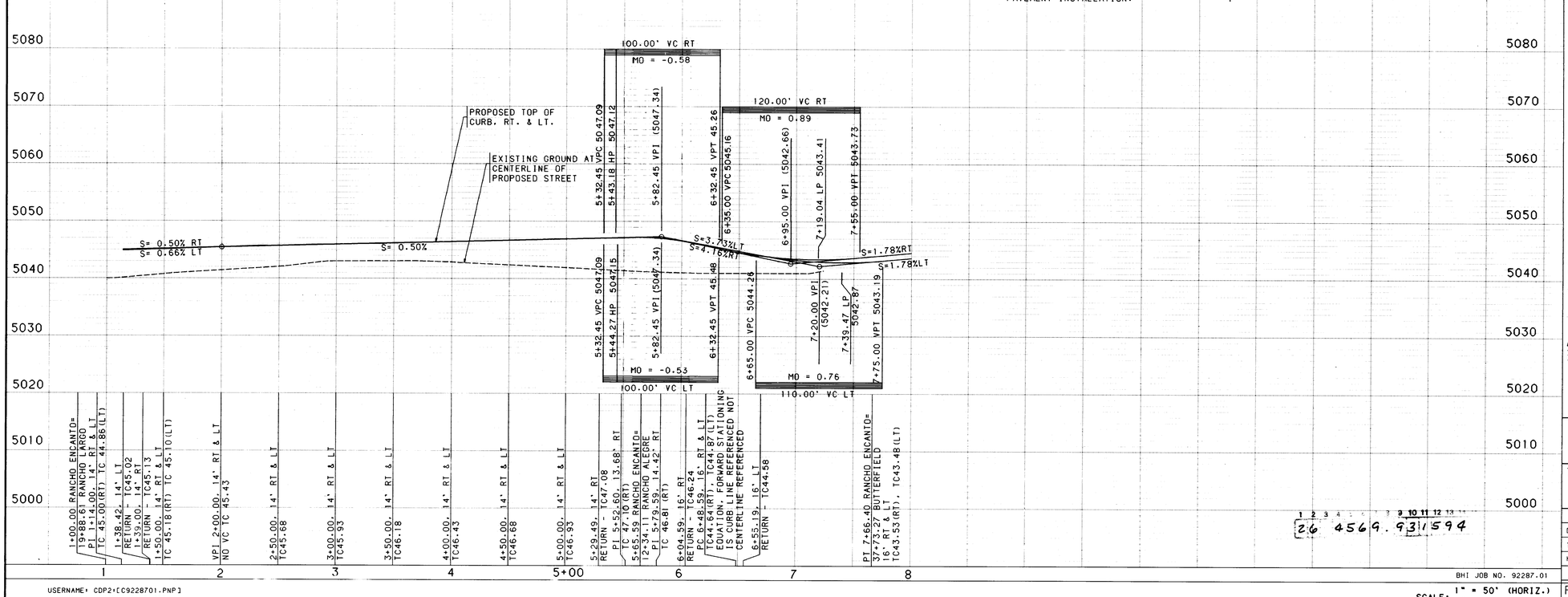

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FILENAME: ENCANTO-PAVE.GRF

SCANNED BY BY LASON

NOTES

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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

RECORD DRAWING

I, A. E. Schumacher, Registered Professional Engineer and Land Surveyor in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.

A. E. Schumacher
NMPE/LS No. 2360

3/31/94
Date

STATE OF NEW MEXICO SCHUMACHER 2360 REGISTERED PROFESSIONAL ENGINEER & LAND SURVEYOR

AS BUILT INFORMATION

CONTRACTOR New Concepts Inc.
WORK STAKED BY NCI DATE 3/4
INSPECTOR'S INITIALS B.R.Partridge DATE 3/4
FIELD VERIFICATION BY NCI DATE 3/4
DRAWINGS CORRECTED BY NCI DATE 3/4
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

STATION MARK IS A STANDARD USC&GS 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

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEERS SEAL

ALBERT E. SCHUMACHER 2360 REGISTERED PROFESSIONAL ENGINEER & LAND SURVEYOR

REVISIONS

NO.	DATE	REMARKS	BY

DESIGN

		DATE
DESIGNED BY	KLD	8/93
DRAWN BY	SAR	8/93
CHECKED BY	KLD	8/93

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: RANCHO SERENO SUBDIVISION - UNIT II
PAVING PLAN & PROFILE
RANCHO ENCANTO

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	Billy Gordon	10-07-93	WATER	N/A RWK	9-2-93
TRANS. DEV.	R. Bennett	9-29-93	WASTE WATER	N/A RWK	9-2-93
HYDROLOGY	G. Wilson	09/29/93			

PROJECT NO.	MAP	SHEET	OF
4569.93	C-12 NO. D-12	15	28

26 4569.93 1594

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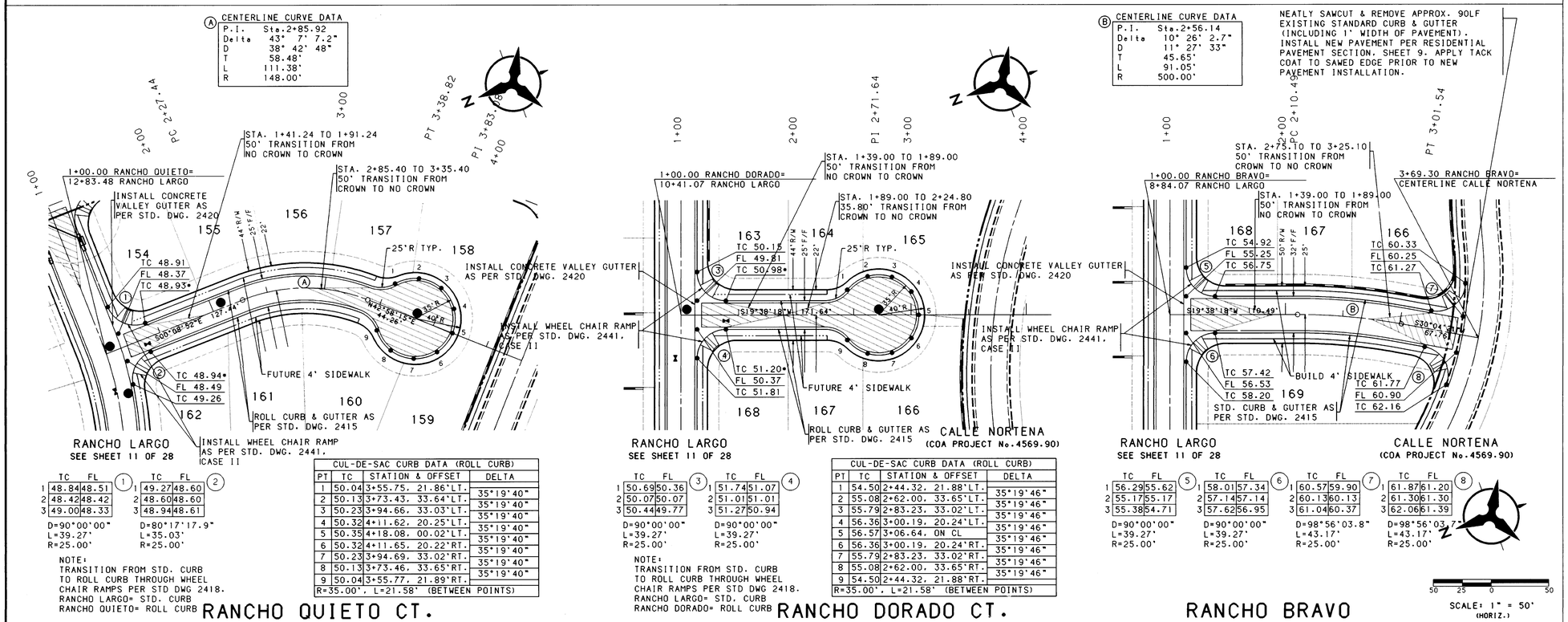


TC	FL		TC	FL	
48.84	48.51	1	49.27	48.60	2
48.42	48.42		48.60	48.60	
49.00	48.33		48.94	48.61	
D=90°00'00"			D=80°17'17.9"		
L=39.27'			L=35.03'		
R=25.00'			R=25.00'		

NOTE:
TRANSITION FROM STD. CURB TO ROLL CURB THROUGH WHEEL CHAIR RAMPS PER STD DWG 2418.
RANCHO LARGO= STD. CURB
RANCHO QUIETO= ROLL CURB

RANCHO QUIETO CT.

CUL-DE-SAC CURB DATA (ROLL CURB)

PT	TC	STATION & OFFSET	DELTA
1	50.04	3+55.75. 21.86'LT.	
2	50.13	3+73.43. 33.64'LT.	35°19'40"
3	50.23	3+94.66. 33.03'LT.	35°19'40"
4	50.32	4+11.62. 20.25'LT.	35°19'40"
5	50.35	4+18.08. 00.02'LT.	35°19'40"
6	50.32	4+11.65. 20.22'RT.	35°19'40"
7	50.23	3+94.69. 33.02'RT.	35°19'40"
8	50.13	3+73.46. 33.65'RT.	35°19'40"
9	50.04	3+55.77. 21.89'RT.	35°19'40"
R=35.00'. L=21.58' (BETWEEN POINTS)			

TC	FL		TC	FL	
50.69	50.36	1	51.74	51.07	2
50.07	50.07		51.01	51.01	
50.44	49.77		51.27	50.94	
D=90°00'00"			D=90°00'00"		
L=39.27'			L=39.27'		
R=25.00'			R=25.00'		

NOTE:
TRANSITION FROM STD. CURB TO ROLL CURB THROUGH WHEEL CHAIR RAMPS PER STD DWG 2418.
RANCHO LARGO= STD. CURB
RANCHO DORADO= ROLL CURB

RANCHO DORADO CT.

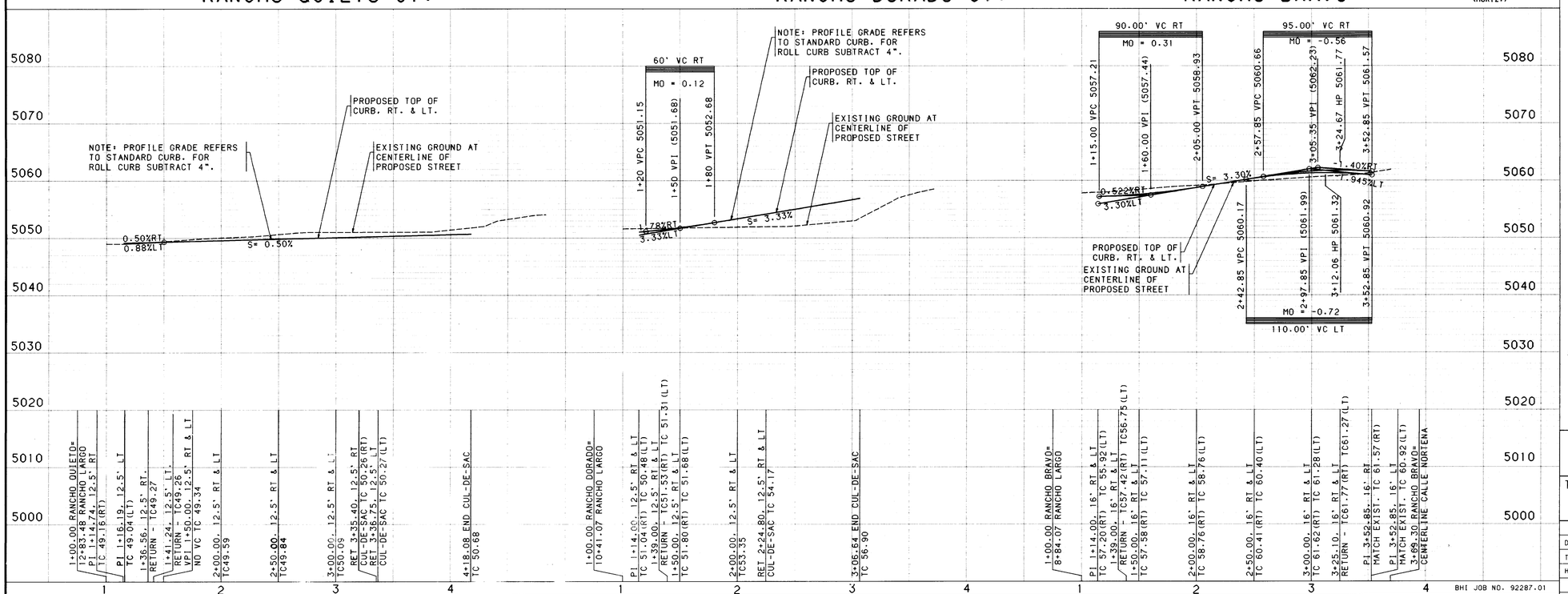
CUL-DE-SAC CURB DATA (ROLL CURB)

PT	TC	STATION & OFFSET	DELTA
1	54.50	2+44.32. 21.88'LT.	
2	55.08	2+62.00. 33.65'LT.	35°19'46"
3	55.79	2+83.23. 33.02'LT.	35°19'46"
4	56.36	3+00.19. 20.24'LT.	35°19'46"
5	56.57	3+06.64. ON CL	35°19'46"
6	56.36	3+00.19. 20.24'RT.	35°19'46"
7	55.79	2+83.23. 33.02'RT.	35°19'46"
8	55.08	2+62.00. 33.65'RT.	35°19'46"
9	54.50	2+44.32. 21.88'RT.	35°19'46"
R=35.00'. L=21.58' (BETWEEN POINTS)			

TC	FL		TC	FL	
56.29	55.62	1	58.01	57.34	2
55.17	55.17		57.14	57.14	
55.38	54.71		57.62	56.95	
D=90°00'00"			D=90°00'00"		
L=39.27'			L=39.27'		
R=25.00'			R=25.00'		

TC	FL		TC	FL	
60.57	59.90	1	61.87	61.20	2
60.13	60.13		61.30	61.30	
61.04	60.37		62.06	61.39	
D=98°56'03.8"			D=98°56'03.7"		
L=43.17'			L=43.17'		
R=25.00'			R=25.00'		

RANCHO BRAVO



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FILENAME: CULS-PAVE.GRF

SCANNED BY
BY LASON

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US WEST	245-6694	BECKY OLESEN
GAS CO.	761-7770	LEO APODACA
JONES	761-6200	YVETTE SUAZO

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A. E. Schumacher 3/31/94
NMPE/LS No. 2360 Date

STATE OF NEW MEXICO ALBERT E. SCHUMACHER 2360 REGISTERED PROFESSIONAL ENGINEER & LAND SURVEYOR

216 4569.93 1694

AS BUILT INFORMATION
CONTRACTOR New Concepts Inc
WORK STAKED BY KCI DATE 3/94
ASBUILT DATA ACCEPTANCE BY R. Rutledge DATE 3/94
FIELD VERIFICATION BY KCI DATE 3/94
DRAWINGS CORRECTED BY KCI DATE 3/94
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

NO.	DATE	STATION MARK IS A STANDARD USC&GS 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

SURVEY INFORMATION
FIELD NOTES

NO.	BY

ENGINEERS SEAL

REVISIONS

NO.	DATE	REMARKS	BY

		DATE
DESIGN		
DESIGNED BY	KLD	8/93
DRAWN BY	SAR	8/93
CHECKED BY	KLD	8/93

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: RANCHO SERENO SUBDIVISION - UNIT II
PAVING PLAN & PROFILE
RANCHO QUIETO CT. RANCHO DORADO CT. & RANCHO BRAVO

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	Billy Gordaly	10-07-93	WATER	N/A RWK	9-9-93
TRANS. DEV.	[illegible]	9-9-93	WASTE WATER	N/A RWK	9-9-93
HYDROLOGY	[illegible]	09/09/93			

PROJECT NO.	MAP	SHEET
4569.93	C-12 D-12	16 OF 28

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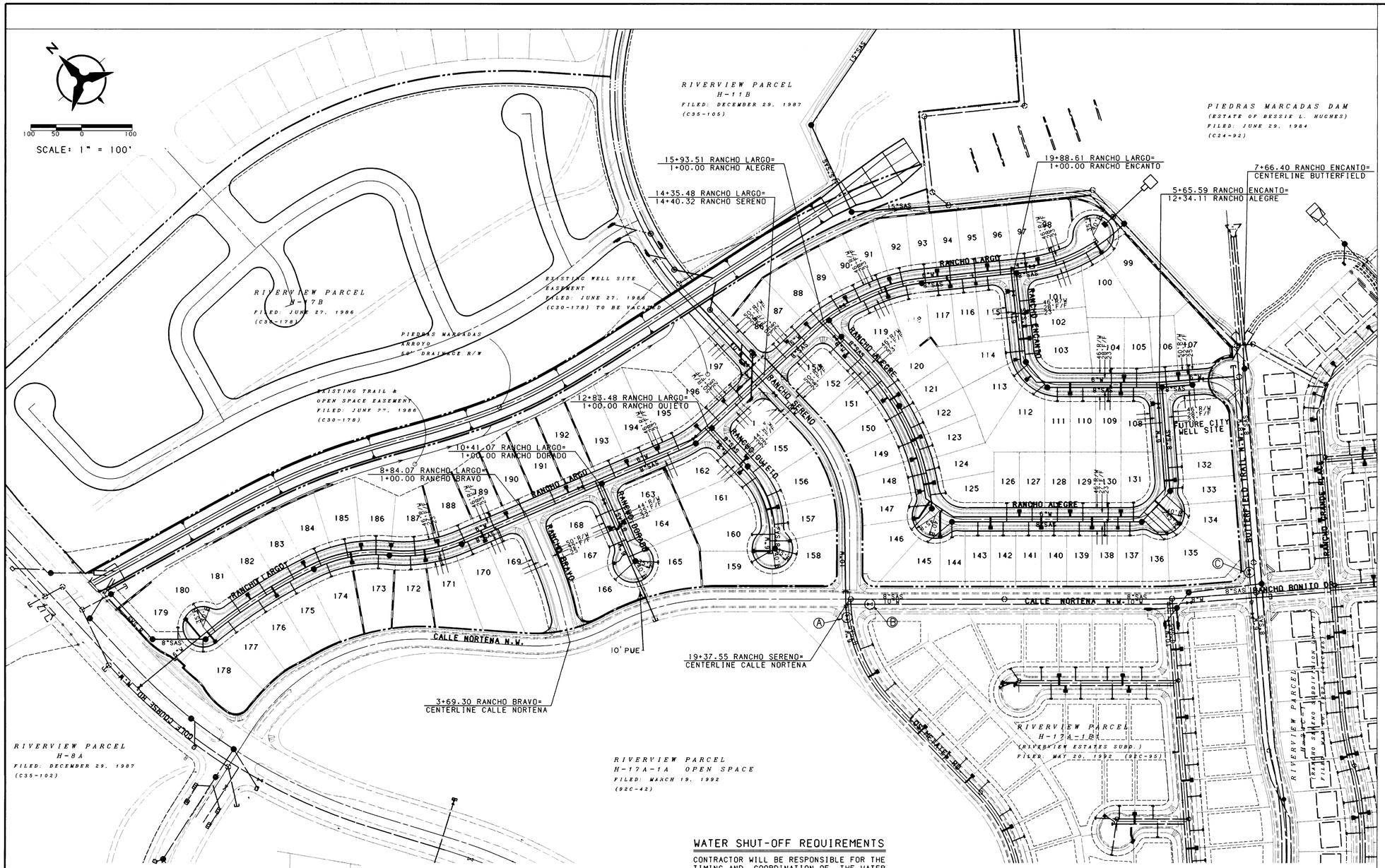

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US WEST	245-6694	BECKY OLESEN
GAS CO.	761-7770	LEO APODACA
JONES	761-6200	YVETTE SUAZO

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
- PROPOSED SANITARY SEWER LINE — SAS —
- EXISTING SANITARY SEWER LINE — SAS —
- PROPOSED WATER LINE — W —
- EXISTING WATER LINE — W —
- PROPOSED SANITARY SEWER SERVICE
- PROPOSED WATER METER SERVICE

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 WORKING DAYS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL CONTACT PWD/WATER SYSTEMS DIVISION (857-8200) TO INITIATE IMPLEMENTATION OF THIS WATER SHUT-OFF PLAN.

TO CONNECT	CLOSE VALVES @ INTERSECTION OF
10" LINE AT RANCHO SERENO	A & B LOS METATES & CALLE NORTENA
6" LINE AT BUTTERFIELD TRAIL	C BUTTERFIELD TR. & CALLE NORTENA
6" LINE AT GOLF COURSE ROAD	NONE (PRESSURE CONNECTION)

RECORD DRAWING

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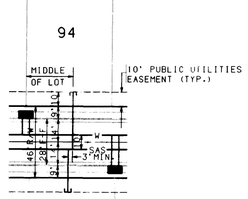
A. E. Schumacher
NMPE/LS No. 2360

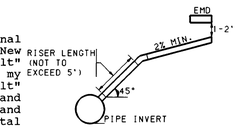
3/31/94
Date

STATE OF NEW MEXICO ALBERT E. SCHUMACHER 2360 REGISTERED PROFESSIONAL ENGINEER & LAND SURVEYOR



TYPICAL UTILITY SERVICE LOCATION

NO SCALE



SERVICE RISER DETAIL

(SERVICE CONNECTION & INSTALLATION TO CONFORM TO COA STD. DWG. 2134. USE CI SOIL PIPE ONLY)

26 45 69.931794

BHI JOB NO. 92287.01

SCANNED BY BY LASON

AS BUILT INFORMATION

CONTRACTOR New Concepts Inc
WORK STAKED BY KCI DATE 9/9/94
ACCEPTANCE BY R. Ritledge DATE 9/9/94
FIELD VERIFICATION BY KCI DATE 9/9/94
DRAWINGS CORRECTED BY KCI DATE 9/9/94
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

STATION MARK IS A STANDARD USC&GS 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

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEERS SEAL

REVISIONS

NO.	DATE	REMARKS	BY

DESIGN

		DATE
DESIGNED BY	KLD	8/93
DRAWN BY	SAR	8/93
CHECKED BY	KLD	8/93

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

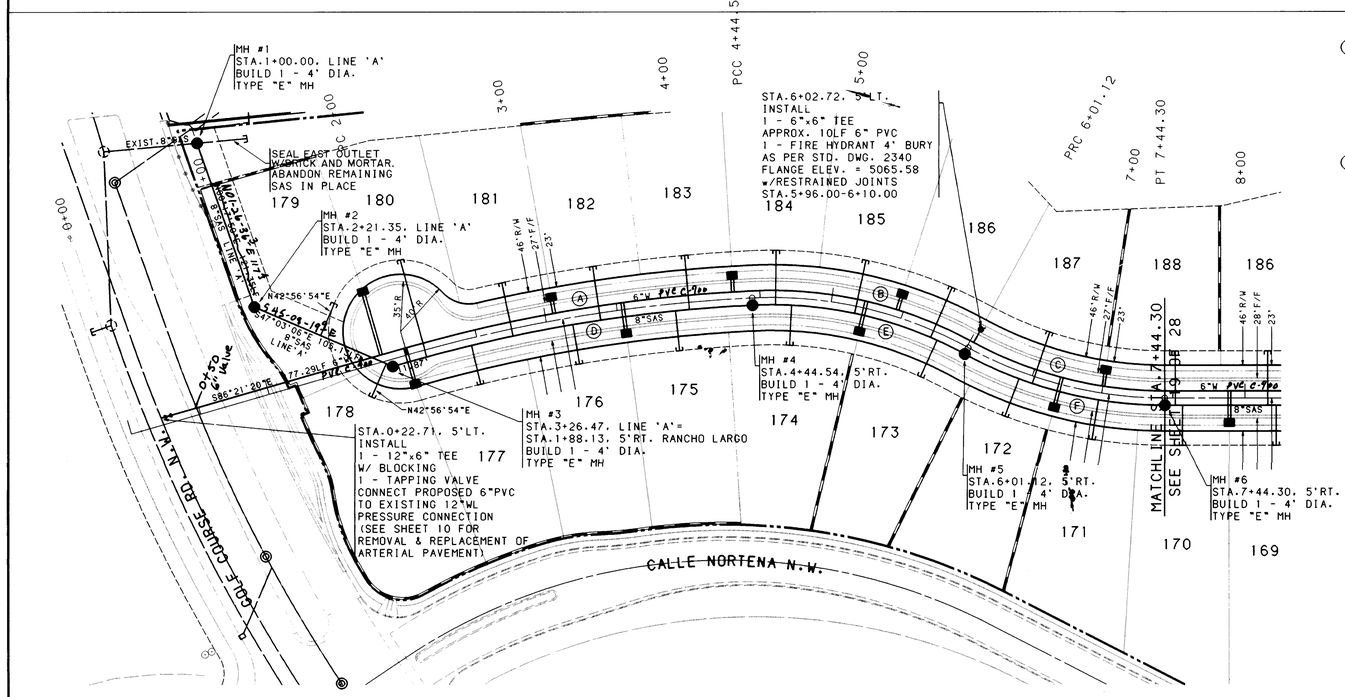
TITLE: RANCHO SERENO SUBDIVISION UNIT II OVERALL UTILITY PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	Billy Goolsby	10-07-93	WATER	R.W. Kane	9-9-93
TRANS. DEV.	N/A		WASTE WATER	R.W. Kane	9-9-93
HYDROLOGY	B. Ellis	09/09/93			

PROJECT NO.	MAP NO.	SHEET OF
4569.93	C-12 D-12	17 28

USERNAME: CDP2:[C9228701.PAD]
FILENAME: UTILITY.GRF

Copyright Bohannan-Huston, Inc. 1993



Ⓐ WATERLINE CURVE DATA	
P.I.	Sta.3+23.41
Delta	13° 17' 57.9"
D	5° 24' 46"
T	123.41'
L	245.70'
R	1058.52'

Ⓑ WATERLINE CURVE DATA	
P.I.	Sta.5+26.27
Delta	31° 28' 43.0"
D	19° 45' 26"
T	81.73'
L	159.33'
R	290.00'

Ⓒ WATERLINE CURVE DATA	
P.I.	Sta.6+72.97
Delta	28° 47' 2.8"
D	20° 27' 46"
T	71.85'
L	140.67'
R	280.00'

Ⓓ SAS CURVE DATA	
P.I.	Sta.3+22.24
Delta	13° 17' 57.9"
D	5° 27' 52"
T	122.24'
L	243.38'
R	1048.52'

Ⓔ SAS CURVE DATA	
P.I.	Sta.5+23.45
Delta	31° 28' 43.0"
D	20° 27' 46"
T	78.91'
L	153.83'
R	280.00'

Ⓕ SAS CURVE DATA	
P.I.	Sta.6+75.54
Delta	28° 47' 2.8"
D	19° 45' 26"
T	74.42'
L	145.69'
R	290.00'

WATER & SANITARY SEWER SERVICES

LOT NUMBER	WL STATION & OFFSET	WL TYPE	SAS STATION & OFFSET	SAS LENGTH	TOP OF PIPE AT PLUG
179			2+71.73, LINE 'A'	24.39'	69.00
180	1+82.51, 5.00'LT.	DOUBLE	2+12.67, 5.00'RT.	70.24'	69.76
181			2+74.99, 5.00'RT.	38.00'	67.92
182	3+06.42, 5.00'LT.	DOUBLE	3+37.65, 5.00'RT.	38.00'	66.44
183			4+00.11, 5.00'RT.	38.00'	64.96
184	4+31.34, 5.00'LT.	DOUBLE	4+60.88, 5.00'RT.	38.00'	63.53
185			5+17.45, 5.00'RT.	38.00'	62.19
186	5+45.73, 5.00'LT.	DOUBLE	5+74.02, 5.00'RT.	38.00'	60.85
187			6+51.55, 5.00'RT.	38.00'	59.30
188	7+00.38, 5.00'LT.	DOUBLE	----------	------	------
178			3+21.47, LINE 'A'	25.45'	68.50
177	1+89.51, 5.00'LT.	DOUBLE	2+45.04, 5.00'RT.	28.00'	68.70
176			3+17.94, 5.00'RT.	28.00'	67.05
175	3+54.16, 5.00'LT.	DOUBLE	3+90.38, 5.00'RT.	28.00'	65.48
174			4+72.24, 5.00'RT.	28.00'	63.54
173	5+23.74, 5.00'LT.	DOUBLE	5+79.11, 5.00'RT.	28.00'	60.87
172			6+41.86, 5.00'RT.	28.00'	59.39
171	6+70.15, 5.00'LT.	DOUBLE	6+98.43, 5.00'RT.	28.00'	58.05

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 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 EMD 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.

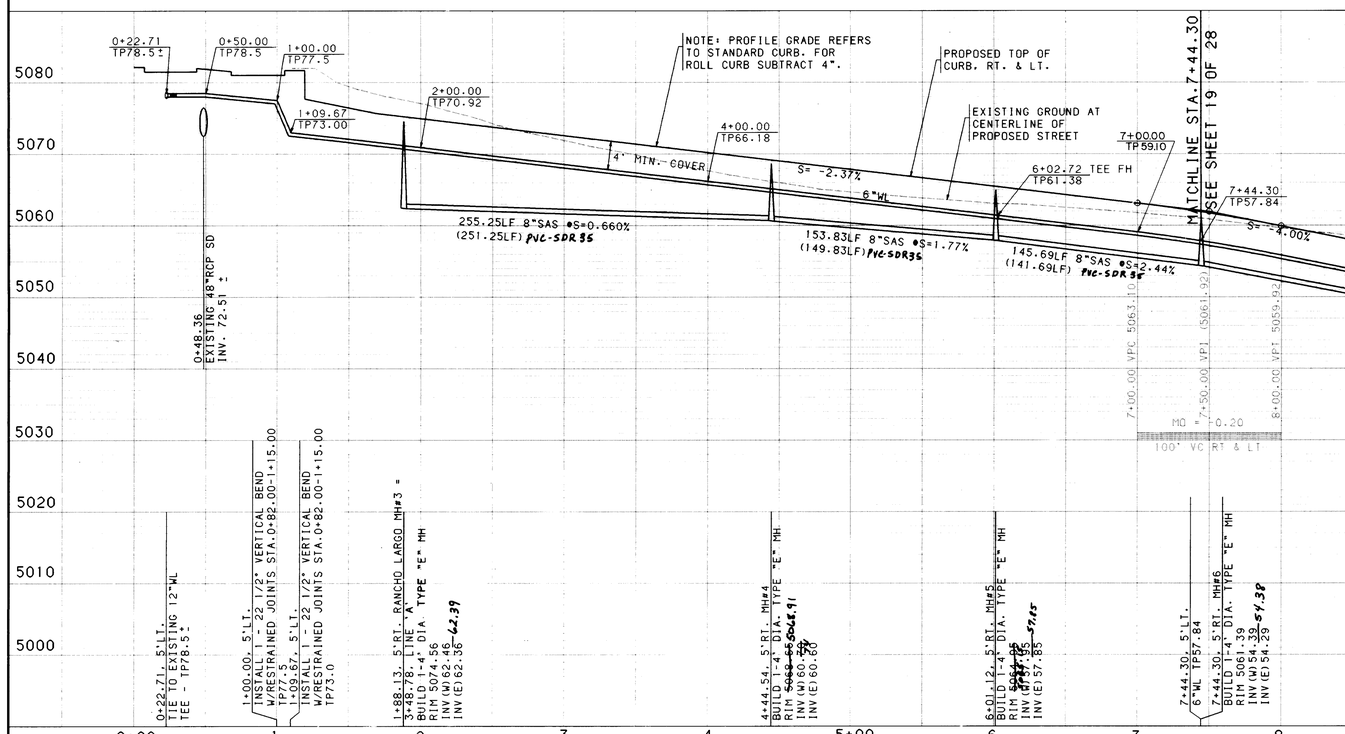
10. ANY DAMAGE TO THE EXISTING FACILITIES (CURB AND GUTTER, PAVEMENT, CONDUITS, LANDSCAPING, UTILITY LINES, ETC.) DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.

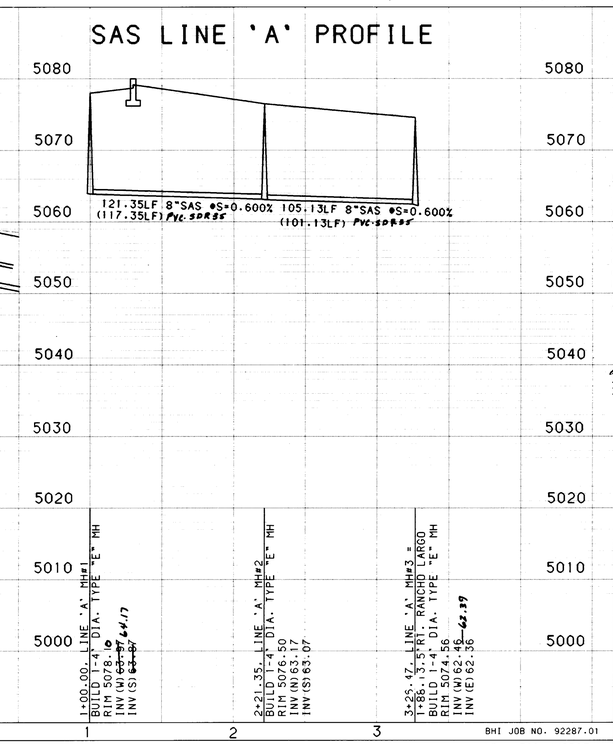
11. REMOVAL OF THE EXISTING CURB AND GUTTER SHALL BE AS PER COA STD. DWG. 2415 (SAWCUT ONLY).

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





RECORD DRAWING

I, A. E. Schumacher, Registered Professional Engineer and Land Surveyor in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.

A. E. Schumacher
NMPE/LS No. 2360

3/31/94
Date

STATE OF NEW MEXICO ALBERT E. SCHUMACHER 2360 REGISTERED PROFESSIONAL ENGINEER & LAND SURVEYOR

2G 4569.931894

AS BUILT INFORMATION
CONTRACTOR New Concepts Inc. DATE 3/94
WORK STAKED BY KCI DATE 3/94
ACCEPTANCE BY R. Rutledge DATE 3/94
FIELD VERIFICATION BY KCI DATE 3/94
DRAWINGS CORRECTED BY KCI DATE 3/94
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

STATION MARK IS A STANDARD USC&GS 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

SURVEY INFORMATION

FIELD NOTES		
NO.	BY	DATE

ENGINEERS SEAL

REVISIONS			
NO.	DATE	REMARKS	BY

DESIGNED BY	KLD	DATE 8/93
DRAWN BY	SAR	DATE 8/93
CHECKED BY	KLD	DATE 8/93

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: RANCHO SERENO SUBDIVISION - UNIT II
UTILITY PLAN & PROFILE
RANCHO LARGO 0+00.00 to 7+44.30

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN			WATER	R.W. Kane	9-9-93
TRANS. DEV.		10-07-93	WASTE WATER	R.W. Kane	9-9-93
HYDROLOGY		9-09-93			

PROJECT NO.	MAP NO.	SHEET OF
4569.93	C-12 D-12	18 28

USERNAME: CDP2:[C9228701.PNP]
FILENAME: LARGO1-UTIL.GRF

SCANNED BY
BY LASON

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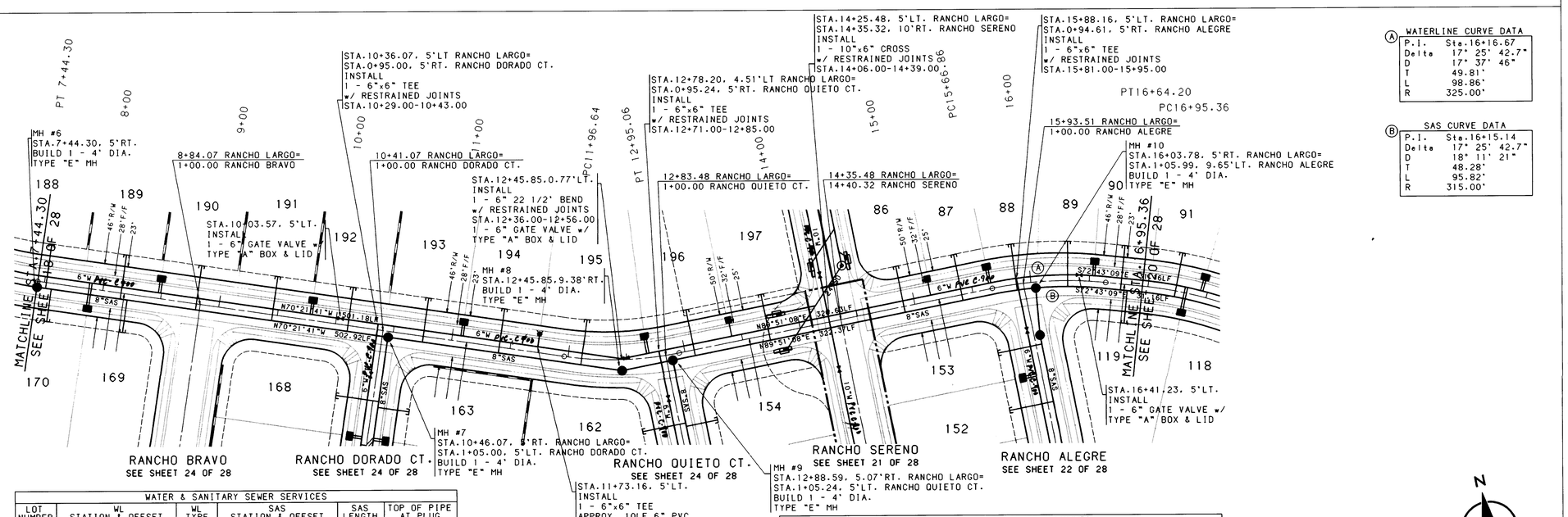


WATER & SANITARY SEWER SERVICES						
LOT NUMBER	WL STATION & OFFSET	WL TYPE	SAS STATION & OFFSET	SAS LENGTH	TOP OF PIPE AT PLUG
188	----------	------	7+51.57, 5.00'RT.	38.00'	56.70
189	8+48.16, 5.00'LT.	DOUBLE	8+15.66, 5.00'RT.	38.00'	54.33
190			8+80.66, 5.00'RT.	38.00'	51.73
191	9+78.16, 5.00'LT.	DOUBLE	9+45.66, 5.00'RT.	38.00'	49.13
192			10+10.66, 5.00'RT.	38.00'	46.60
193	11+08.16, 5.00'LT.	DOUBLE	10+75.66, 5.00'RT.	38.00'	45.07
194			11+40.66, 5.00'RT.	38.00'	44.71
195	12+68.62, 3.79'LT.	DOUBLE	12+11.38, 5.39'RT.	38.85'	44.39
196			13+07.98, 5.00'RT.	40.00'	43.95
197	13+40.48, 5.00'LT.	SINGLE	13+72.98, 5.00'RT.	40.00'	43.55

WATER & SANITARY SEWER SERVICES						
LOT NUMBER	WL STATION & OFFSET	WL TYPE	SAS STATION & OFFSET	SAS LENGTH	TOP OF PIPE AT PLUG
86	15+15.48, 5.00'LT.	SINGLE	14+90.48, 5.00'RT.	40.00'	43.17
87	15+65.48, 5.00'LT.	DOUBLE	15+40.48, 5.00'RT.	40.00'	42.74
88			15+87.59, 5.00'RT.	39.51'	42.40
89	16+53.57, 5.00'LT.	DOUBLE	16+31.59, 5.00'RT.	38.60'	42.18
90			16+77.18, 5.00'RT.	38.00'	41.84
170	7+89.07, 5.00'LT.	DOUBLE	7+56.57, 5.00'RT.	28.00'	56.54
169			8+21.57, 5.00'RT.	28.00'	54.09
119	----------	------	16+82.96, 5.00'RT.	28.00'	42.58

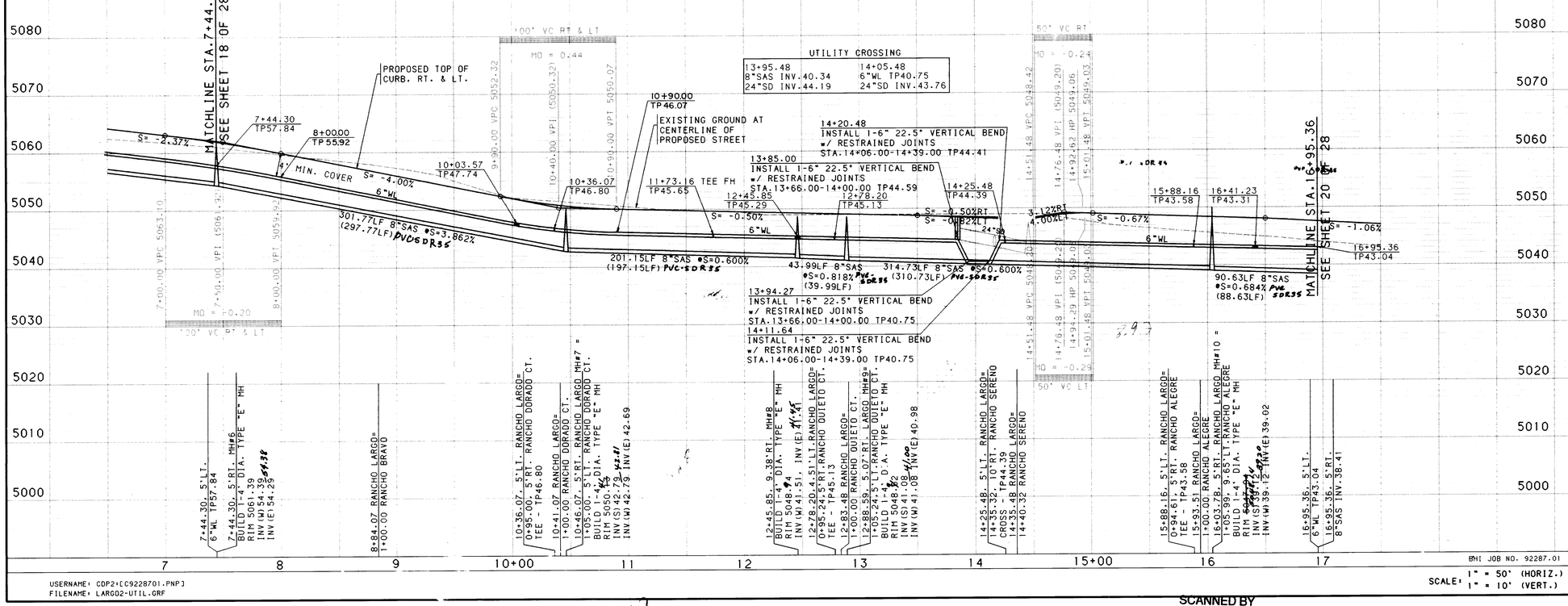
Ⓐ WATERLINE CURVE DATA

P.I.	Sta.16+16.67
Delta	17° 25' 42.7"
D	17° 37' 46"
T	49.81'
L	98.86'
R	325.00'

Ⓑ SAS CURVE DATA

P.I.	Sta.16+15.14
Delta	17° 25' 42.7"
D	18° 11' 21"
T	48.28'
L	95.82'
R	315.00'

SCALE: 1" = 50' (HORIZ.)



BHI JOB NO. 92287.01

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

USERNAME: CDP2[C9228701.PNP]
FILENAME: LARGO2-UTIL.GRF

NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.

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.

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

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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

RECORD DRAWING

I, A. E. Schumacher, Registered Professional Engineer and Land Surveyor in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.

A. E. Schumacher
NMPE/LS No. 2360

3/3/94
date

STATE OF NEW MEXICO ALBERT E. SCHUMACHER 2360 REGISTERED PROFESSIONAL ENGINEER & LAND SURVEYOR

26 4569.93 1994

AS BUILT INFORMATION

CONTRACTOR New Concepts Inc.
WORK STAKED BY KCI DATE 3/94
CHECKED FOR ACCEPTANCE BY R.Aldridge DATE 3/94
FIELD VERIFICATION BY KCI DATE 4/94
DRAWINGS CORRECTED BY KCI DATE 4/94
MICRO-FILM INFORMATION
RECORDED BY DATE
NO. DATE

BENCH MARKS

STATION MARK IS A STANDARD USC&GS 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

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEERS SEAL

KENT L. DAVIS NEW MEXICO 5084 REGISTERED PROFESSIONAL ENGINEER

REVISIONS

NO.	DATE	REMARKS	BY

DESIGN

DESIGNED BY	KLD	DATE 8/93
DRAWN BY	SAR	DATE 8/93
CHECKED BY	KLD	DATE 8/93

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: RANCHO SERENO SUBDIVISION - UNIT II
UTILITY PLAN & PROFILE
RANCHO LARGO 7+44.30 to 16+95.36

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN		10-07-93	WATER	R.W. Kane	9-9-93
TRANS. DEV.		9-09-93	WASTE WATER	R.W. Kane	9-9-93
HYDROLOGY		09/09/93			

PROJECT NO.	MAP	SHEET OF
4569.93	C-12 D-12	19 28

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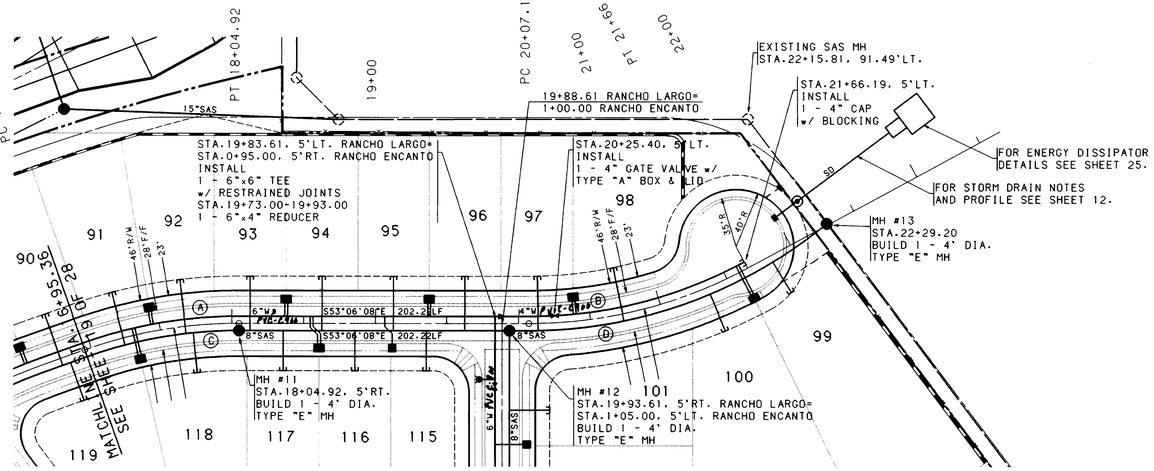
SCANNED BY BY LASON



RANCHO ENCANTO
SEE SHEET 23 OF 28

RANCHO LARGO

Ⓐ WATERLINE CURVE DATA

P.I.	Sta.17+51.55
Delta	19° 37' 1.5"
D	17° 37' 46"
T	56.19'
L	111.27'
R	325.00'

Ⓑ WATERLINE CURVE DATA

P.I.	Sta.20+87.08
Delta	28° 28' 33.9"
D	18° 11' 21"
T	79.93'
L	156.56'
R	315.00'

Ⓒ SAS CURVE DATA

P.I.	Sta.17+49.82
Delta	19° 37' 1.5"
D	18° 11' 21"
T	54.46'
L	107.85'
R	315.00'

Ⓓ SAS CURVE DATA

P.I.	Sta.21+24.33
Delta	39° 39' 17.6"
D	17° 37' 46"
T	117.18'
L	224.94'
R	325.00'

WATER & SANITARY SEWER SERVICES

LOT NUMBER	WL STATION & OFFSET	WL TYPE	SAS STATION & OFFSET	SAS LENGTH	TOP OF PIPE AT PLUG
91	17+45.04, 5.00'LT.	DOUBLE	17+23.43, 5.00'RT.	38.00'	41.65
92			17+67.54, 5.00'RT.	38.00'	41.68
93	18+37.54, 5.00'LT.	DOUBLE	18+12.54, 5.00'RT.	38.00'	41.20
94			18+62.54, 5.00'RT.	38.00'	40.67
95	19+37.54, 5.00'LT.	DOUBLE	19+12.54, 5.00'RT.	38.00'	40.20
96			19+62.54, 5.00'RT.	38.00'	39.95
97	20+39.33, 5.00'LT.	DOUBLE	20+13.41, 5.00'RT.	38.00'	39.88
98			20+72.72, 5.00 RT.	38.00'	39.49
119	17+31.99, 5.00'LT.	DOUBLE	----------	------	-----
118			17+72.62, 5.00'RT.	28.00'	41.63
117	18+55.54, 5.00'LT.	DOUBLE	18+35.61, 5.00'RT.	28.00'	41.10
116			18+85.61, 5.00'RT.	28.00'	40.57
115	19+05.54, 5.00'LT.	SINGLE	19+35.61, 5.00'RT.	28.00'	40.09
100	21+60.54, 5.00'LT.	DOUBLE	21+35.00, 5.00'RT.	28.00'	38.93
99			21+83.43, 4.54'RT.	28.00'	38.38

N

50 25 0 50
SCALE: 1" = 50'
(HORIZ.)

NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.

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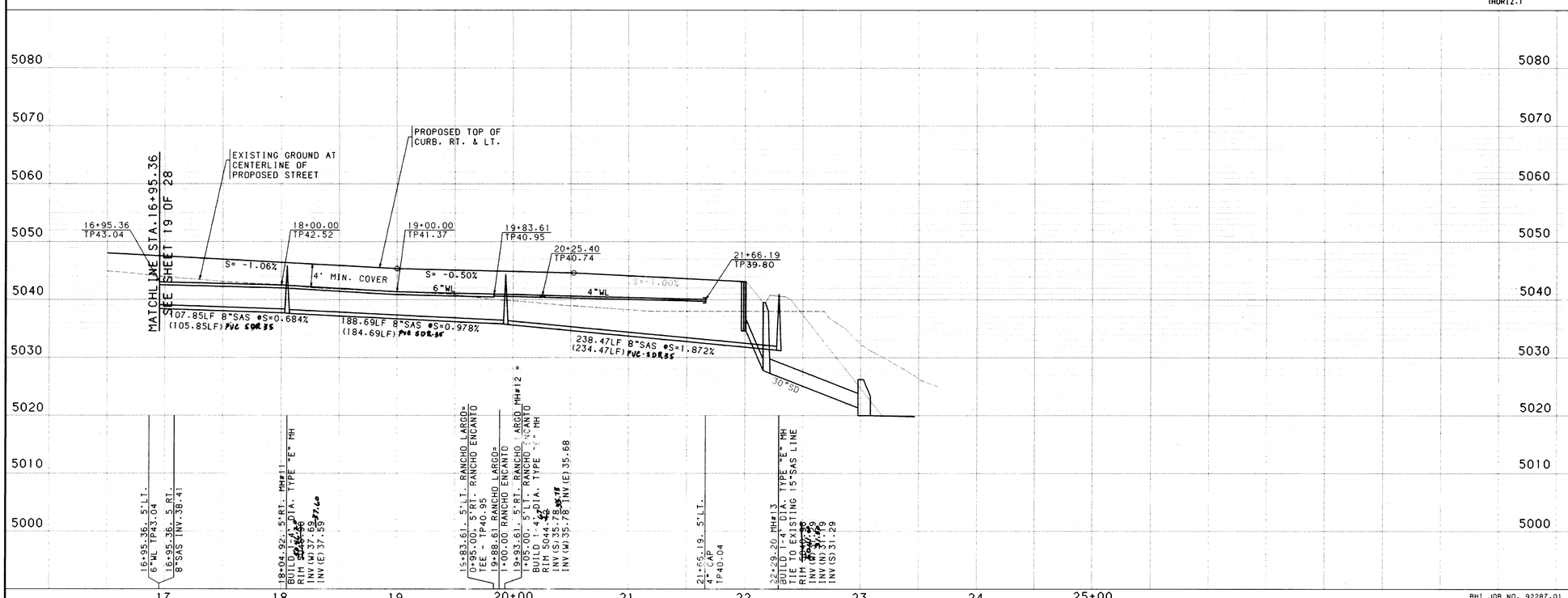
COMPANY	PHONE	CONTACT
PNM	848-3374	TOM BACA
US WEST	245-6694	BECKY OLESEN
GAS CO.	761-7770	LEO APODACA
JONES	761-6200	YVETTE SUAZO



BHI JOB NO. 92287.01

USERNAME: CDP2:[C9228701.PNP]
FILENAME: LARG03-UTIL.GRF

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

SCANNED BY
BY LASON

AS BUILT INFORMATION

CONTRACTOR New Concepts Inc.
WORK STAKED BY NCI DATE 8/93
INSPECTOR DATE
ACCEPTANCE BY R. Rutledge DATE 8/93
FIELD VERIFICATION BY NCI DATE 8/93
DRAWINGS CORRECTED BY NCI DATE 8/93

MICRO-FILM INFORMATION

RECORDED BY DATE
NO.

BENCH MARKS

STATION MARK IS A STANDARD USC&GS 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

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEERS SEAL

ALBERT E. SCHUMACHER
NEW MEXICO
9964
PROFESSIONAL ENGINEER
REGISTERED
8-30-93

RECORD DRAWING

I, A. E. Schumacher, Registered Professional Engineer and Land Surveyor in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.

A. E. Schumacher
NMPE/LS No. 2360

3/31/94
Date

STATE OF NEW MEXICO
ALBERT E. SCHUMACHER
2360
REGISTERED
PROFESSIONAL ENGINEER & LAND SURVEYOR

1 2 3 4 5 6 7 8 9 10 11 12 13 14
26 4569.932094

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN		DATE 8/93
DESIGNED BY	KLD	DATE 8/93
DRAWN BY	SAR	DATE 8/93
CHECKED BY	KLD	

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: RANCHO SERENO SUBDIVISION - UNIT II
UTILITY PLAN & PROFILE
RANCHO LARGO 16+95.36 to 25+00.00

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	Billy Gordon	10-07-93	WATER	R.W. Kane	9-9-93
TRANS. DEV.	[illegible]	9-29-93	WASTE WATER	R.W. Kane	9-9-93
HYDROLOGY	[illegible]	09-09-93			

PROJECT NO. 4569.93 | MAP NO. C-12 D-12 | SHEET 20 OF 28

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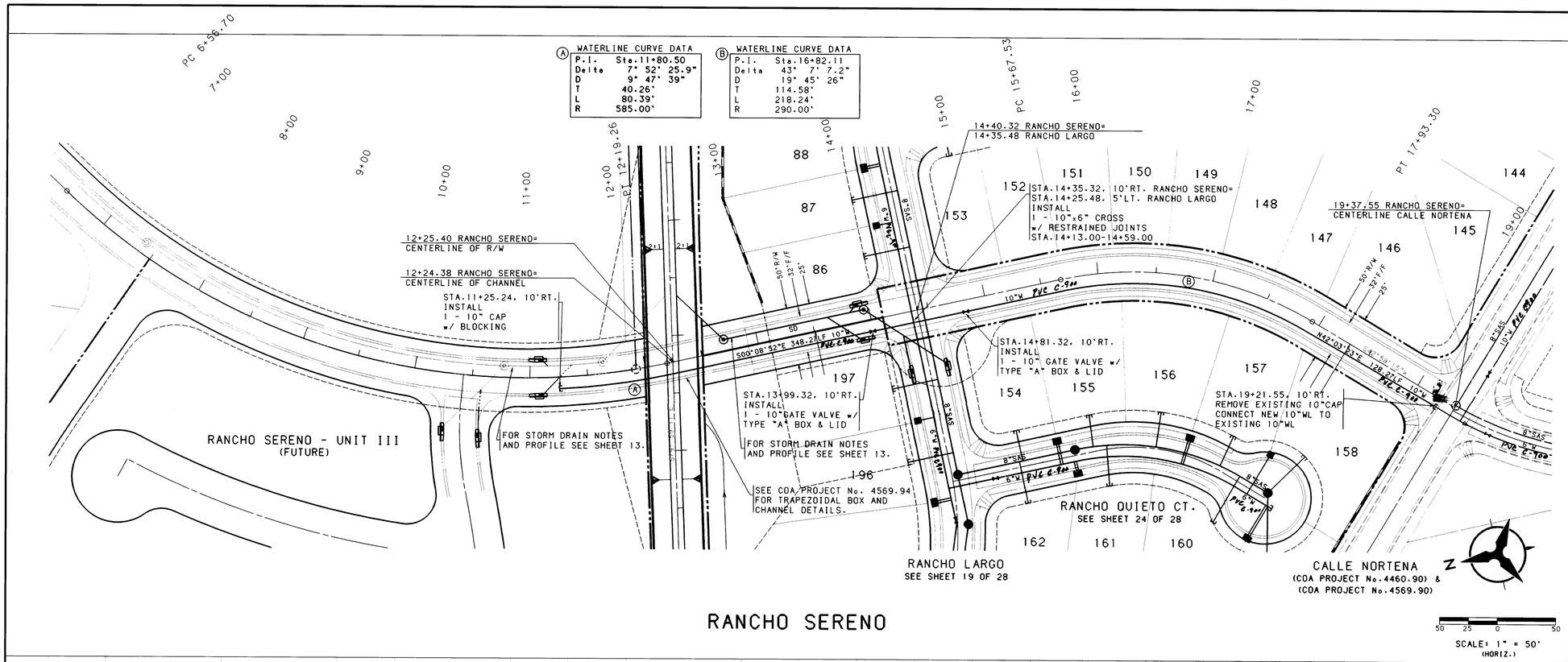

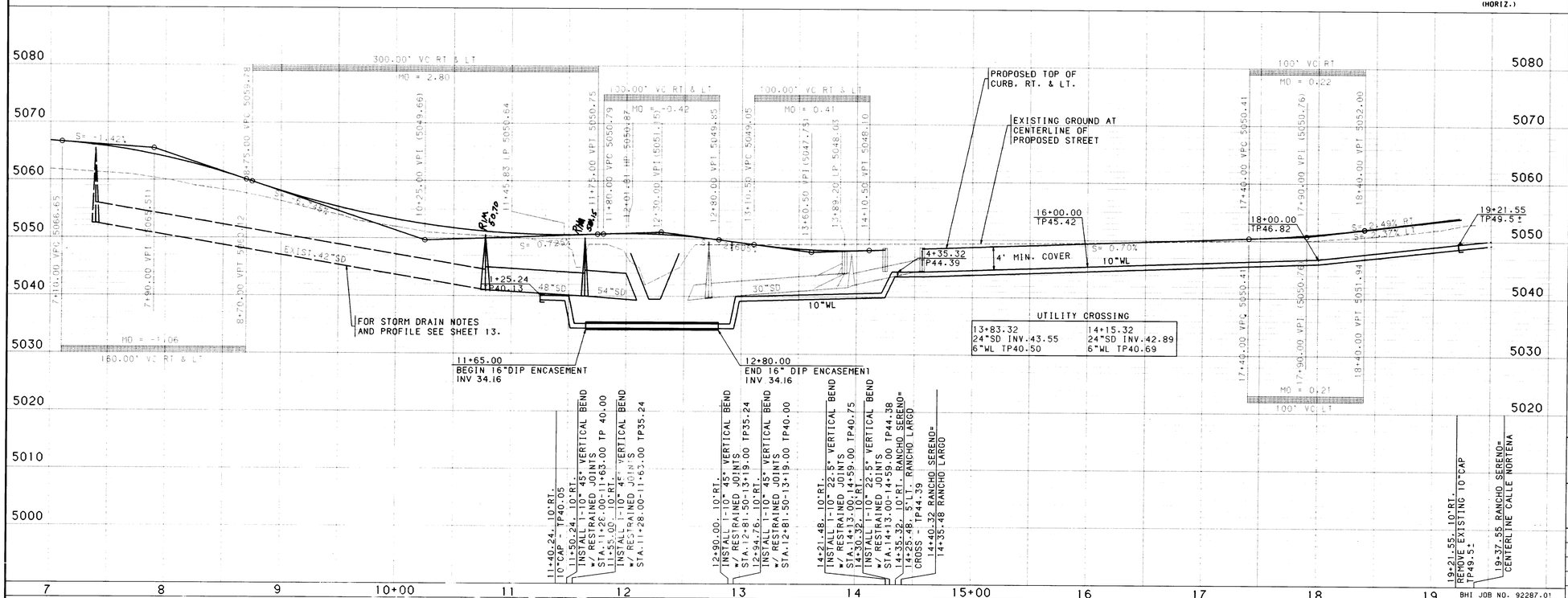

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FILENAME: SERENO-UTIL.GRF

SCANNED BY
BY LASON

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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

RECORD DRAWING

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A. E. Schumacher 3/31/94
A. E. Schumacher Date
NMPE/LS No. 2360

STATE OF NEW MEXICO ALBERT E. SCHUMACHER 2360 REGISTERED PROFESSIONAL ENGINEER & LAND SURVEYOR

26 4569.932194

AS BUILT INFORMATION

CONTRACTOR New Concepts Inc.
STAKED BY NCI DATE 3/94
INSPECTOR'S ACCEPTANCE BY R. Rutledge DATE 3/94
FIELD VERIFICATION BY NCI DATE 3/94
DRAWINGS CORRECTED BY NCI DATE 3/94

MICRO-FILM INFORMATION

RECORDED BY DATE
NO.

BENCH MARKS

NO.	BY	DATE	REMARKS
			STATION MARK IS A STANDARD USC&GS 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

SURVEY INFORMATION

FIELD NOTES

ENGINEERS SEAL

REVISIONS

NO.	BY	DATE	REMARKS

DESIGN

		DATE
DESIGNED BY	KLD	8/93
DRAWN BY	SAR	8/93
CHECKED BY	KLD	8/93

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: RANCHO SERENO SUBDIVISION - UNIT II
UTILITY PLAN & PROFILE
RANCHO SERENO

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	Billy Gordon	10-07-93	WATER	R.W. Kane	9-9-93
TRANS. DEV.	[illegible]	9-07-93	WASTE WATER	R.W. Kane	9-9-93
HYDROLOGY	[illegible]	09/09/93			

PROJECT NO. 4569.93 | MAP NO. C-12 D-12 | SHEET 21 OF 28

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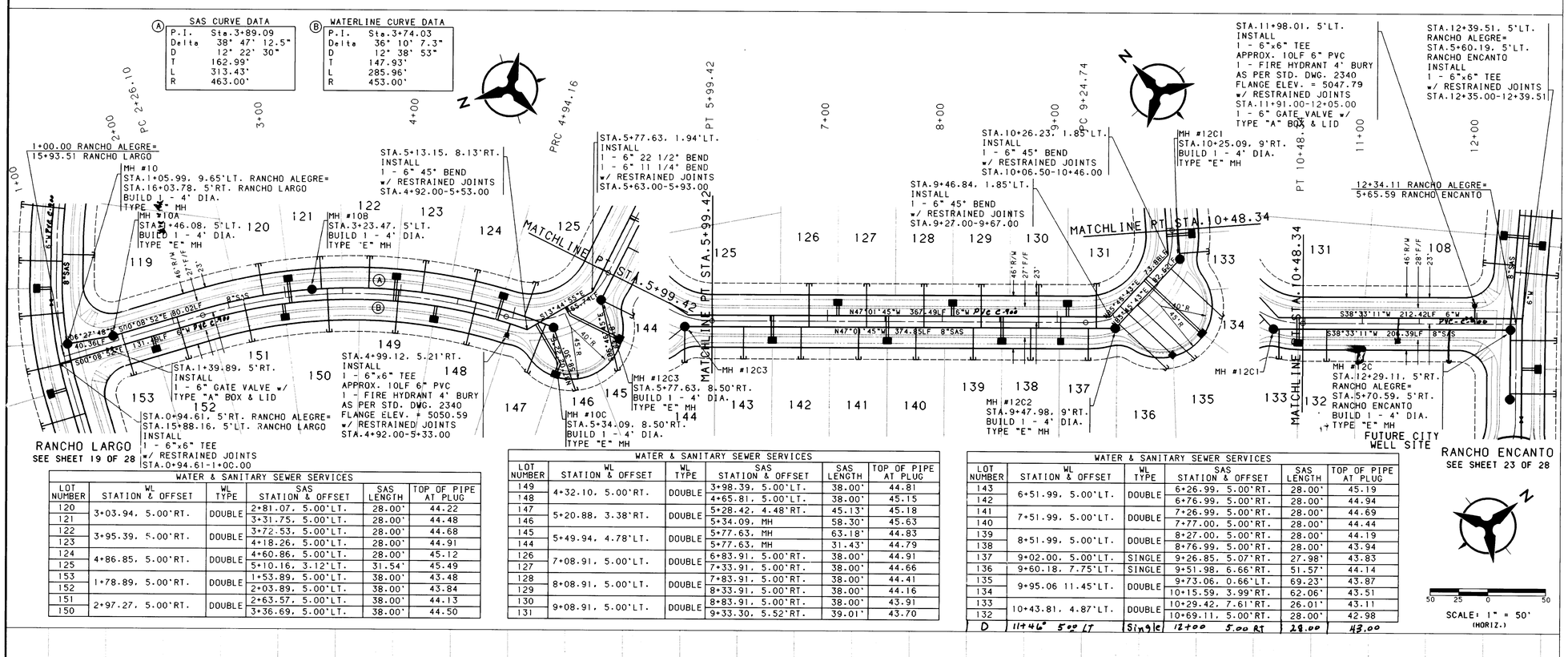
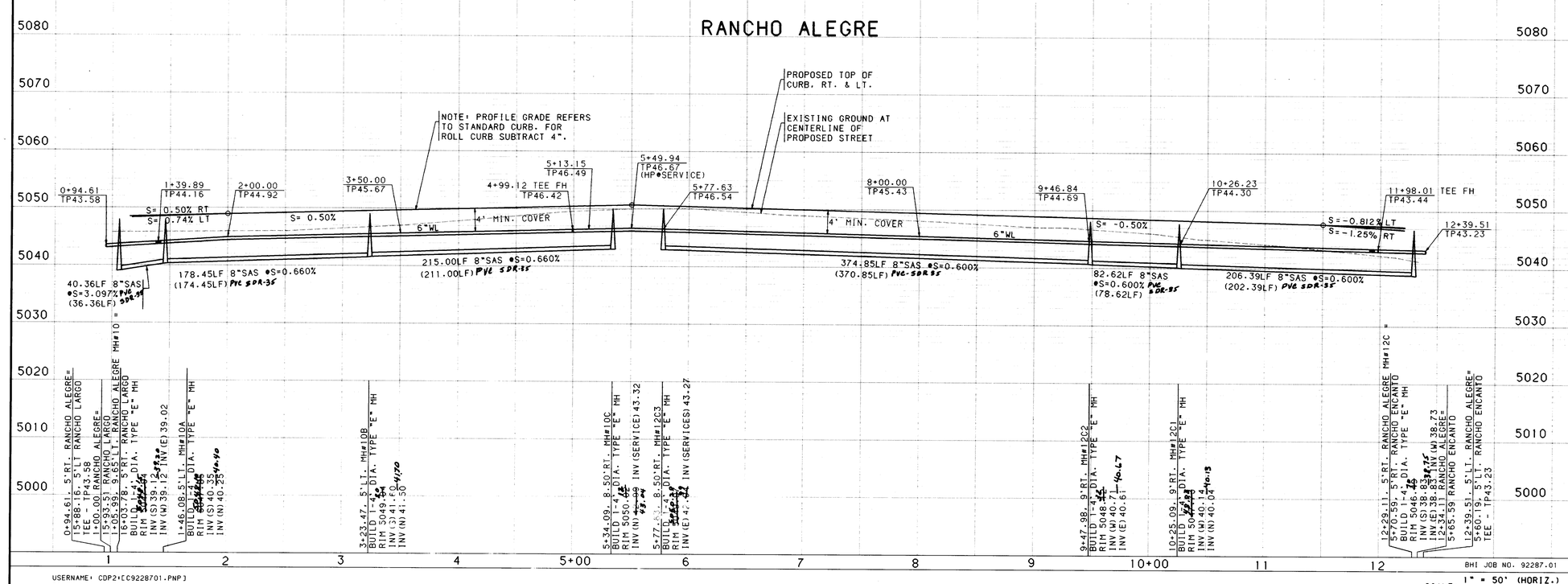


WATER & SANITARY SEWER SERVICES					
LOT NUMBER	WL STATION & OFFSET	WL TYPE	SAS STATION & OFFSET	SAS LENGTH	TOP OF PIPE AT PLUG
120	3+03.94, 5.00'RT.	DOUBLE	2+81.07, 5.00'LT.	28.00'	44.22
121			3+31.75, 5.00'LT.	28.00'	44.48
122	3+95.39, 5.00'RT.	DOUBLE	3+72.53, 5.00'LT.	28.00'	44.68
123			4+18.26, 5.00'LT.	28.00'	44.91
124	4+86.85, 5.00'RT.	DOUBLE	4+60.86, 5.00'LT.	28.00'	45.12
125			5+10.16, 3.12'LT.	31.54'	45.49
153	1+78.89, 5.00'RT.	DOUBLE	1+53.89, 5.00'LT.	38.00'	43.48
152			2+03.89, 5.00'LT.	38.00'	43.84
151	2+97.27, 5.00'RT.	DOUBLE	2+63.57, 5.00'LT.	38.00'	44.13
150			3+36.69, 5.00'LT.	38.00'	44.50

WATER & SANITARY SEWER SERVICES					
LOT NUMBER	WL STATION & OFFSET	WL TYPE	SAS STATION & OFFSET	SAS LENGTH	TOP OF PIPE AT PLUG
149	4+32.10, 5.00'RT.	DOUBLE	3+98.39, 5.00'LT.	38.00'	44.81
148			4+65.81, 5.00'LT.	38.00'	45.15
147	5+20.88, 3.38'RT.	DOUBLE	5+28.42, 4.48'RT.	45.13'	45.18
146			5+34.09, MH	58.30'	45.63
145	5+49.94, 4.78'LT.	DOUBLE	5+77.63, MH	63.18'	44.83
144			5+77.63, MH	31.43'	44.79
126	7+08.91, 5.00'LT.	DOUBLE	6+83.91, 5.00'RT.	38.00'	44.91
127			7+33.91, 5.00'RT.	38.00'	44.66
128	8+08.91, 5.00'LT.	DOUBLE	7+83.91, 5.00'RT.	38.00'	44.41
129			8+33.91, 5.00'RT.	38.00'	44.16
130	9+08.91, 5.00'LT.	DOUBLE	8+83.91, 5.00'RT.	38.00'	43.91
131			9+33.30, 5.52'RT.	39.01'	43.70

WATER & SANITARY SEWER SERVICES					
LOT NUMBER	WL STATION & OFFSET	WL TYPE	SAS STATION & OFFSET	SAS LENGTH	TOP OF PIPE AT PLUG
143	6+51.99, 5.00'LT.	DOUBLE	6+26.99, 5.00'RT.	28.00'	45.19
142			6+76.99, 5.00'RT.	28.00'	44.94
141	7+51.99, 5.00'LT.	DOUBLE	7+26.99, 5.00'RT.	28.00'	44.69
140			7+77.00, 5.00'RT.	28.00'	44.44
139	8+51.99, 5.00'LT.	DOUBLE	8+27.00, 5.00'RT.	28.00'	44.19
138			8+76.99, 5.00'RT.	28.00'	43.94
137	9+02.00, 5.00'LT.	SINGLE	9+26.85, 5.07'RT.	27.98'	43.83
136	9+60.18, 7.75'LT.	SINGLE	9+51.98, 6.66'RT.	51.57'	44.14
135	9+95.06 11.45'LT.	DOUBLE	9+73.06, 0.66'LT.	69.23'	43.87
134			10+15.59, 3.99'RT.	62.06'	43.51
133	10+43.81, 4.87'LT.	DOUBLE	10+29.42, 7.61'RT.	26.01'	43.11
132			10+69.11, 5.00'RT.	28.00'	42.98
D	11+46° 5.00 LT	Single	12+00 5.00 RT	28.00	43.00



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FILENAME: ALEGRE-UTIL.GRF

BHI JOB NO. 92287.01

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

SCANNED BY

NOTES

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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

RECORD DRAWING

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3/31/94
Date

A. E. Schumacher
NMPE/LS No. 2360

STATE OF NEW MEXICO ALBERT E. SCHUMACHER 2360 REGISTERED PROFESSIONAL ENGINEER & LAND SURVEYOR

26 4569.932294

AS BUILT INFORMATION

CONTRACTOR	New Concepts Inc.	
WORK STAKED BY	KCI	DATE 3/94
INSPECTOR'S DRAWINGS BY	R.Rodledge	DATE 3/94
FIELD VERIFICATION BY	KCI	DATE 3/94
DRAWINGS CORRECTED BY	KCI	DATE 3/94
MICRO-FILM INFORMATION		
RECORDED BY		DATE
NO.		

BENCH MARKS

STATION MARK IS A STANDARD USC&GS 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

SURVEY INFORMATION

NO.	BY	DATE

FIELD NOTES

ENGINEERS SEAL

NO.	REMARKS	BY	DATE

REVISIONS

DESIGN	DATE	8/93
DESIGNED BY KLD	DATE	8/93
DRAWN BY SAR	DATE	8/93
CHECKED BY KLD		

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: RANCHO SERENO SUBDIVISION - UNIT II
UTILITY PLAN & PROFILE
RANCHO ALEGRE

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	Billy Lobby	10-07-93	WATER	R.W. Kane	9-9-93
TRANS. DEV.	N/A	9-08-93	WASTE WATER	R.W. Kane	9-9-93
HYDROLOGY	G. Alley	09/09/93			

PROJECT NO.	MAP C-12 NO. D-12	SHEET 22 OF 28
4569.93		

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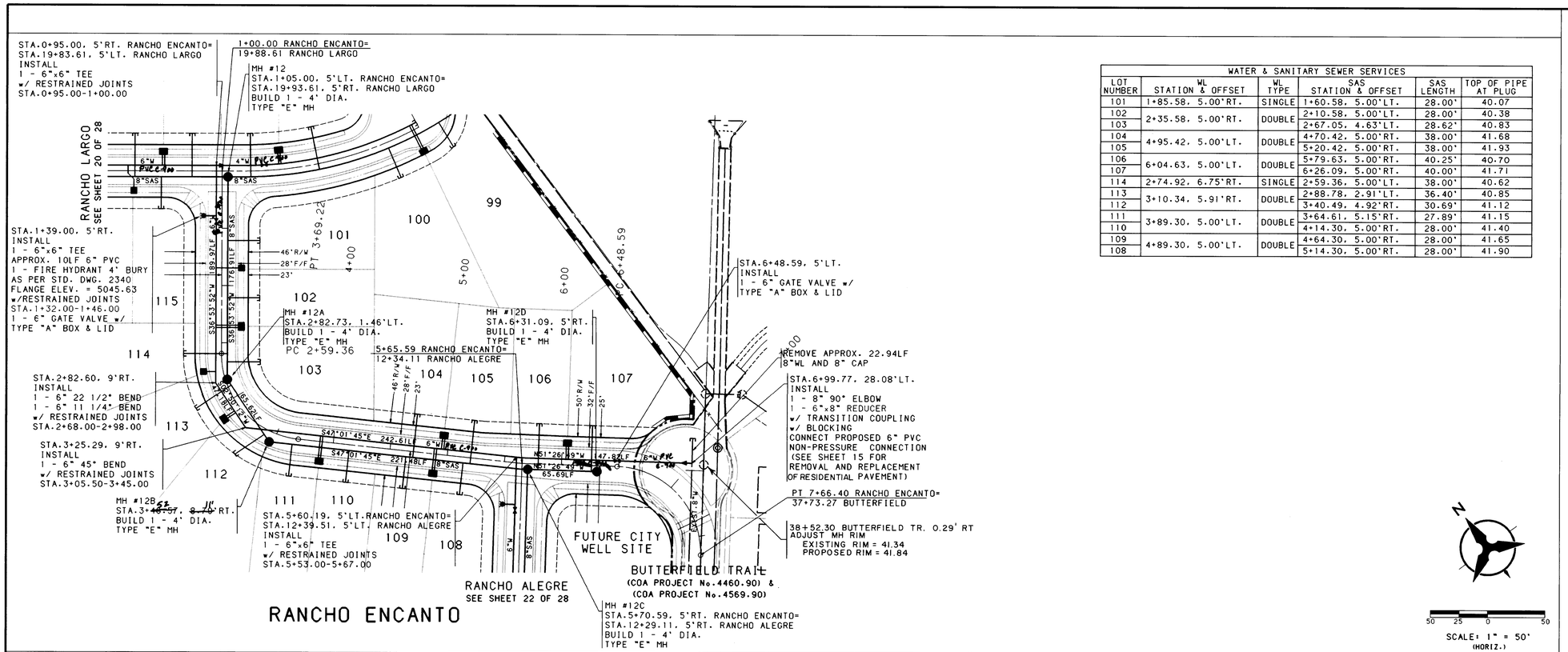

WATER & SANITARY SEWER SERVICES					
LOT NUMBER	WL STATION & OFFSET	WL TYPE	SAS STATION & OFFSET	SAS LENGTH	TOP OF PIPE AT PLUG
101	1+85.58, 5.00'RT.	SINGLE	1+60.58, 5.00'LT.	28.00'	40.07
102	2+35.58, 5.00'RT.	DOUBLE	2+10.58, 5.00'LT.	28.00'	40.38
103			2+67.05, 4.63'LT.	28.62'	40.83
104	4+95.42, 5.00'LT.	DOUBLE	4+70.42, 5.00'RT.	38.00'	41.68
105			5+20.42, 5.00'RT.	38.00'	41.93
106	6+04.63, 5.00'LT.	DOUBLE	5+79.63, 5.00'RT.	40.25'	40.70
107			6+26.09, 5.00'RT.	40.00'	41.71
114	2+74.92, 6.75'RT.	SINGLE	2+59.36, 5.00'LT.	38.00'	40.62
113	3+10.34, 5.91'RT.	DOUBLE	2+88.78, 2.91'LT.	36.40'	40.85
112			3+40.49, 4.92'RT.	30.69'	41.12
111	3+89.30, 5.00'LT.	DOUBLE	3+64.61, 5.15'RT.	27.89'	41.15
110			4+14.30, 5.00'RT.	28.00'	41.40
109	4+89.30, 5.00'LT.	DOUBLE	4+64.30, 5.00'RT.	28.00'	41.65
108			5+14.30, 5.00'RT.	28.00'	41.90

NOTES

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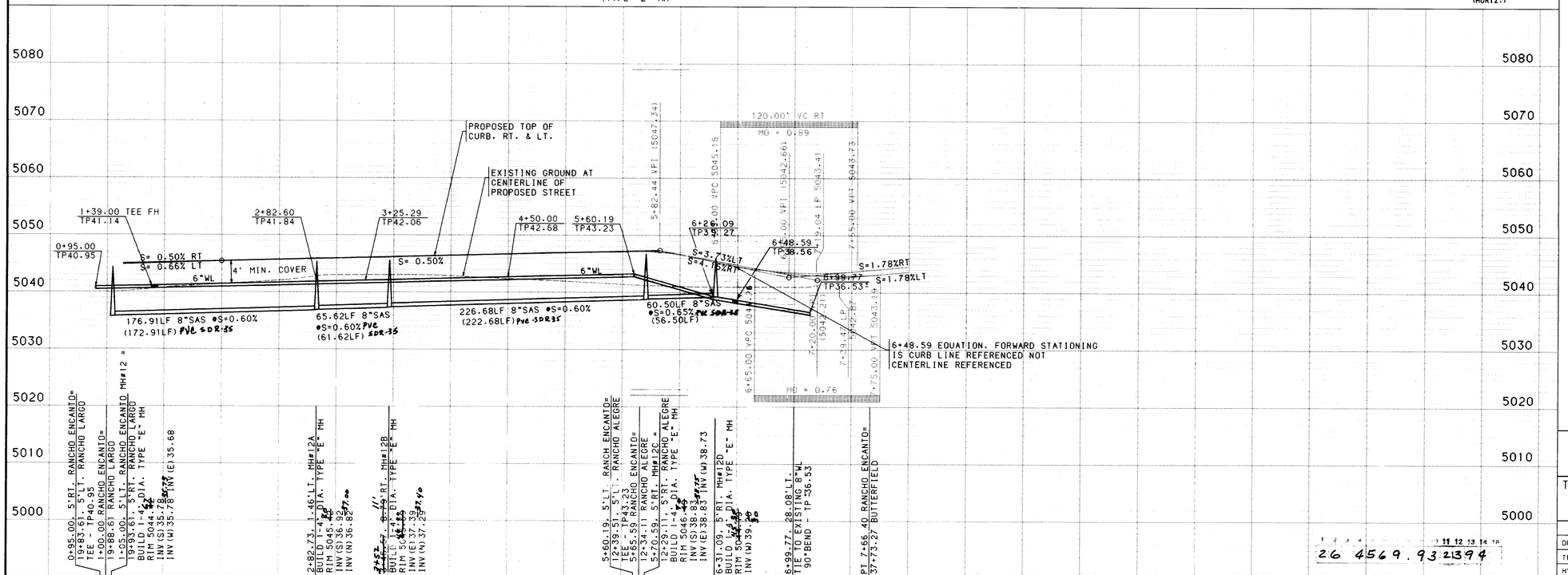
GAS CO.	761-7770	LEO APODACA
JONES	761-6200	YVETTE SUAZO



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FILENAME: ENCANTO-UTIL.GRF

SCANNED BY
BY LASON

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

AS BUILT INFORMATION
CONTRACTOR New Concepts Inc.
WORK STAKED BY MCI DATE 9/94
ACCEPTANCE BY R. Ritledge DATE 9/94
FIELD VERIFICATION BY MCI DATE 9/94
DRAWINGS CORRECTED BY MCI DATE 9/94
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
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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

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEERS SEAL
ALBERT L. DAY JR. 3541 REGISTERED PROFESSIONAL ENGINEER

RECORD DRAWING

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A. E. Schumacher 3/9/94
A. E. Schumacher Date
NMPE/LS No. 2360
STATE OF NEW MEXICO A. E. SCHUMACHER 2360 REGISTERED PROFESSIONAL ENGINEER & LAND SURVEYOR

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGN		DATE
DESIGNED BY	KLD	8/93
DRAWN BY	SAR	8/93
CHECKED BY	KLD	8/93

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: RANCHO SERENO SUBDIVISION - UNIT II
UTILITY PLAN & PROFILE
RANCHO ENCANTO

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN		10-07-93	WATER	R.W. Kane	9-9-93
TRANS. DEV.		9-09-93	WASTE WATER	R.W. Kane	9-9-93
HYDROLOGY		09/09/93			

PROJECT NO. 4569.93 | MAP NO. C-12 D-12 | SHEET 23 OF 28

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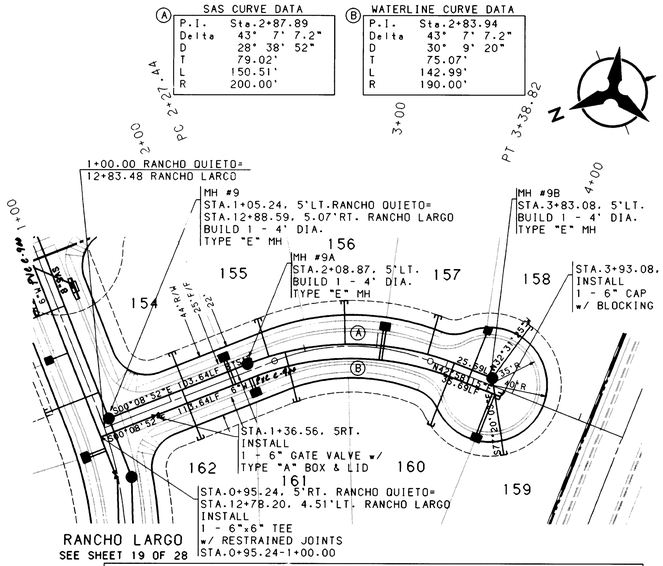
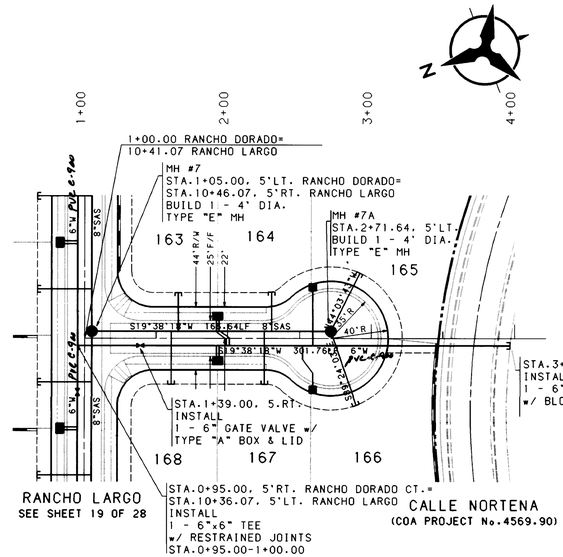
SAS CURVE DATA	
P.I.	Sta.2+87.89
Delta	43° 7' 7.2"
D	28° 38' 52"
T	79.02'
L	150.51'
R	200.00'

WATERLINE CURVE DATA	
P.I.	Sta.2+83.94
Delta	43° 7' 7.2"
D	30° 9' 20"
T	75.07'
L	142.99'
R	190.00'



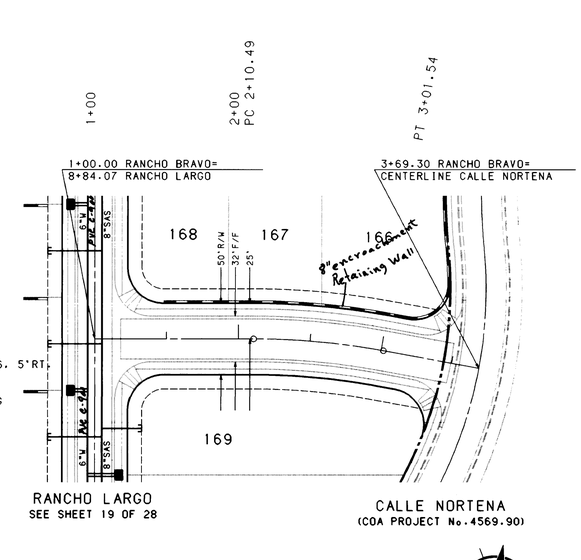
WATER & SANITARY SEWER SERVICES					
LOT NUMBER	STATION & OFFSET	WL TYPE	SAS STATION & OFFSET	SAS LENGTH	TOP OF PIPE AT PLUG
154	1+95.24, 5.00'RT.	DOUBLE	1+62.74, 5.00'LT.	27.00'	44.13
155			2+24.74, 4.37'LT.	27.72'	44.46
156	3+03.95, 8.17'RT.	DOUBLE	2+78.24, 1.49'LT.	30.52'	44.81
157			3+35.38, 3.82'LT.	28.28'	45.03
158	3+66.95, 5.00'RT.	SINGLE	3+83.08, MH	45.14'	45.33
162	2+07.12, 5.00'RT.	DOUBLE	1+59.79, 5.00'LT.	37.00'	44.12
161			2+36.24, 3.36'LT.	35.50'	44.45
160	3+88.08, 5.00'RT.	DOUBLE	3+54.71, 4.98'LT.	46.58'	45.38
159			3+83.08, MH	54.25'	45.69

RANCHO QUIETO CT.



WATER & SANITARY SEWER SERVICES					
LOT NUMBER	STATION & OFFSET	WL TYPE	SAS STATION & OFFSET	SAS LENGTH	TOP OF PIPE AT PLUG
163	2+00.00, 5.00'RT.	DOUBLE	1+65.50, 5.00'LT.	27.00'	47.19
164			2+30.50, 5.00'LT.	27.48'	49.24
165	2+58.00, 5.00'RT.	SINGLE	2+71.64, MH	45.47'	50.69
168	1+93.00, 5.00'RT.	DOUBLE	1+60.50, 5.00'LT.	37.00'	47.03
167			2+25.50, 5.00'LT.	37.00'	49.19
166	2+51.00, 5.00'RT.	SINGLE	2+71.64, MH	54.70'	50.79

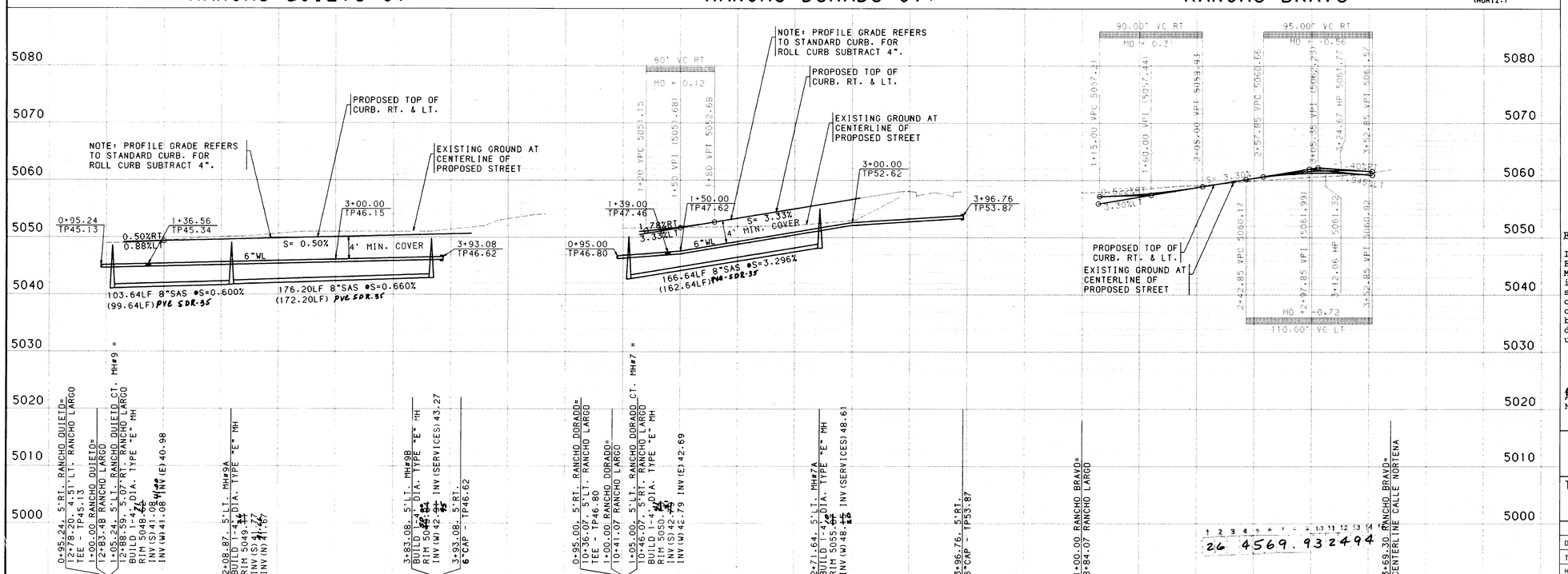
RANCHO DORADO CT.



NOTE:
THERE ARE NO UTILITIES
IN RANCHO BRAVO

RANCHO BRAVO

SCALE: 1" = 50' (HORIZ.)



0+95.24, 5'RT. RANCHO QUIETO=
12+78.20, 4.51'LT. RANCHO LARGO
TEE - TP45.13
1+00.00 RANCHO QUIETO=
12+83.48 RANCHO LARGO
1+05.24, 5'LT. RANCHO QUIETO CT. MH#9 =
12+88.59, 5.07'RT. RANCHO LARGO
BUILD 1-4' DIA. TYPE "E" MH
RIM 5048.08
INV (S) 41.08
INV (W) 41.08
INV (E) 40.98
2+08.87, 5'LT. MH#9A
BUILD 1-4' DIA. TYPE "E" MH
RIM 5049.44
INV (S) 41.77
INV (N) 41.67
3+83.08, 5'LT. MH#9B
BUILD 1-4' DIA. TYPE "E" MH
RIM 5049.44
INV (W) 42.45
INV (SERVICES) 43.27
3+93.08, 5'RT.
6"CAP - TP46.62
0+95.00, 5'RT. RANCHO DORADO=
10+36.07, 5'LT. RANCHO LARGO
TEE - TP46.80
1+00.00 RANCHO DORADO=
10+41.07 RANCHO LARGO
1+05.00, 5'LT. RANCHO DORADO CT. MH#7 =
10+46.07, 5'RT. RANCHO LARGO
BUILD 1-4' DIA. TYPE "E" MH
RIM 5050.44
INV (W) 42.77
INV (E) 42.79
INV (W) 42.79 INV (E) 42.69
2+71.64, 5'LT. MH#7A
BUILD 1-4' DIA. TYPE "E" MH
RIM 5055.44
INV (W) 48.61
INV (SERVICES) 48.61
3+96.76, 5'RT.
6"CAP - TP53.87
1+00.00 RANCHO BRAVO=
8+84.07 RANCHO LARGO
3+69.30 RANCHO BRAVO=
CENTERLINE CALLE NORTENA

26 4569.932494

USERNAME: CDP2:[C9228701.PNP]
FILENAME: CULS-UTIL.GRF

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

BHI JOB NO. 92287.01

NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.

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 EMD 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

RECORD DRAWING

I, A. E. Schumacher, Registered Professional Engineer and Land Surveyor in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.

3/31/94
Date

A. E. Schumacher
NMPE/LS No. 2360

STATE OF NEW MEXICO
ALBERT E. SCHUMACHER
2360
REGISTERED
PROFESSIONAL ENGINEER & LAND SURVEYOR

AS BUILT INFORMATION

CONTRACTOR	New Concepts Inc	
WORK STAKED BY	NCI	DATE 9/93
ACCEPTANCE BY	R.Ridlely	DATE 4/94
FIELD VERIFICATION BY	NCI	DATE 4/94
DRAWINGS CORRECTED BY	NCI	DATE 4/94
MICRO-FILM INFORMATION		
RECORDED BY		DATE
NO.		

BENCH MARKS

STATION MARK IS A STANDARD USC&GS 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

SURVEY INFORMATION

FIELD NOTES		
NO.	BY	DATE

ENGINEERS SEAL

ALBERT E. SCHUMACHER
NEW MEXICO
2360
REGISTERED PROFESSIONAL ENGINEER

REVISIONS

NO.	DATE	REMARKS	BY

DESIGN		
DESIGNED BY	KLD	DATE 8/93
DRAWN BY	SAR	DATE 8/93
CHECKED BY	KLD	DATE 8/93

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

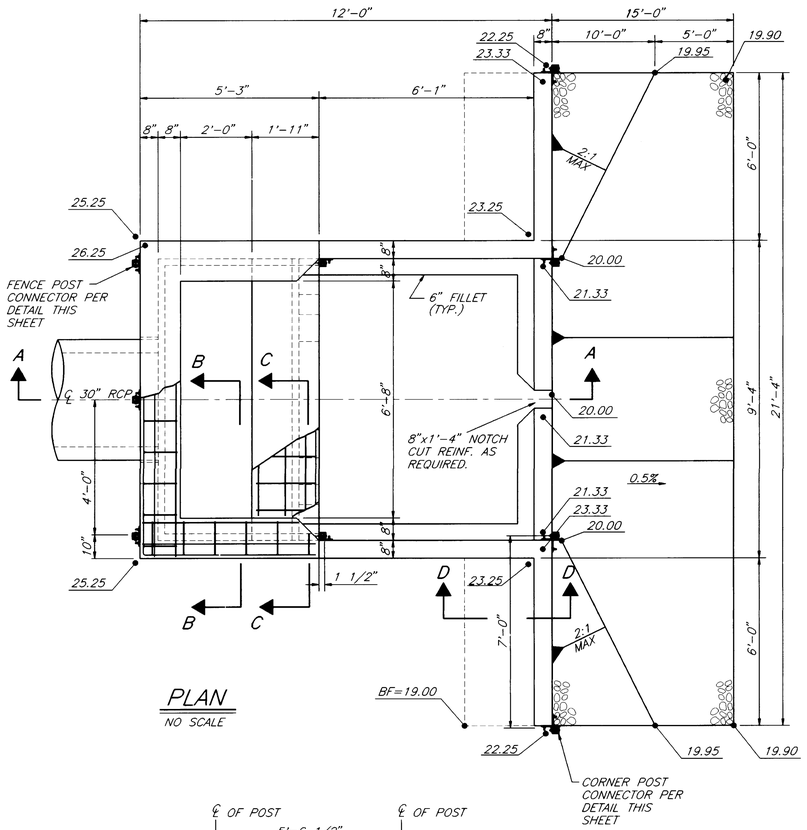
TITLE: RANCHO SERENO SUBDIVISION - UNIT II
UTILITY PLAN & PROFILE
RANCHO QUIETO CT. RANCHO DORADO CT. & RANCHO BRAVO

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN		10-07-93	WATER	R.W. Kane	9-9-93
TRANS. DEV.		9-9-93	WASTE WATER	R.W. Kane	9-9-93
HYDROLOGY		9/9/93			

PROJECT NO.	MAP	SHEET OF
4569.93	C-12 D-12	24 28

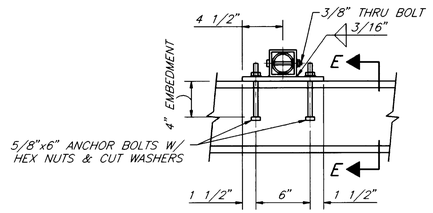
SCANNED BY
BY LASON

Copyright Bohannan-Huston, Inc. 1993



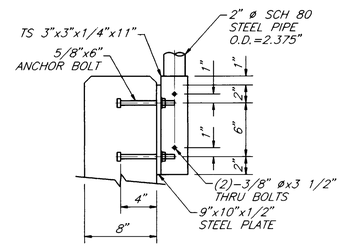
PLAN

NO SCALE



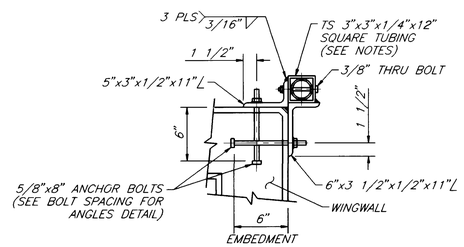
FENCE POST CONNECTOR DETAIL

NO SCALE



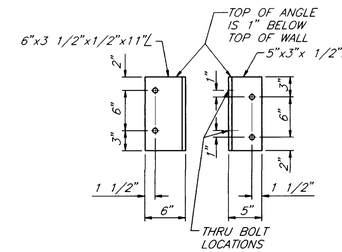
SECTION E-E

NO SCALE



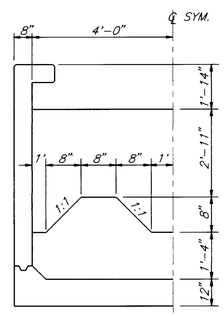
CORNER POST CONNECTOR DETAIL

NO SCALE



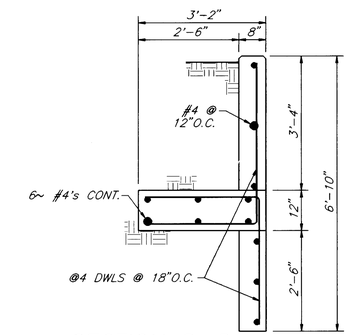
BOLT SPACING FOR ANGLES OF CORNER POST CONNECTOR

NO SCALE



SECTION C-C

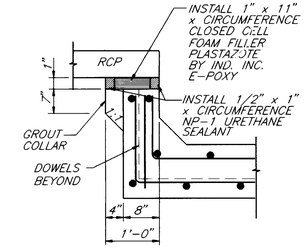
NO SCALE



SECTION D-D

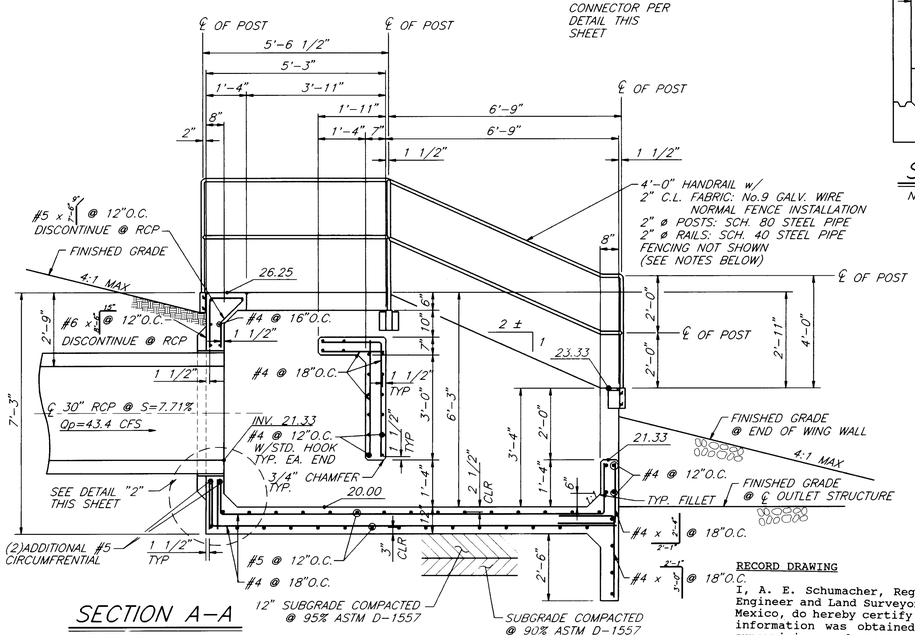
DISSIPATOR WINGWALL DETAIL

NO SCALE



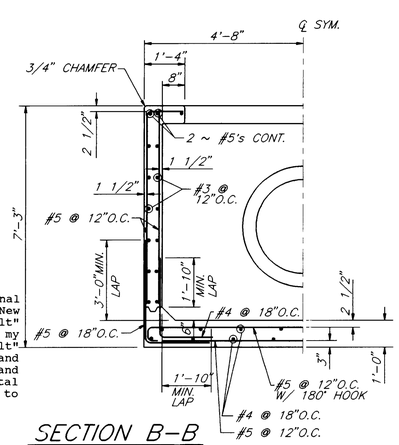
DETAIL "2"

NO SCALE



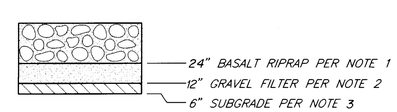
SECTION A-A

NO SCALE



SECTION B-B

NO SCALE



BASALT RIPRAP SECTION

NO SCALE

GENERAL STRUCTURAL NOTES

1. CODES AND MANUALS:
   Uniform Building Code, 1991 Edition
   ACI 318, Latest Edition, Building Code Requirements for Reinforced Concrete.
2. DESIGN LOADS:
   A. Live Loads:
      Soil Weight = 120 pcf
      Equiv lateral =40 pcf
   B. Maximum Allowable soil bearing pressure: 2000psf*
      *Allowable 1/3 stress increase for gravity and/or lateral loading.
3. GENERAL:
   A. The Contractor shall verify all dimensions in the field.
   B. Shop drawings shall be furnished for review before any fabrication and erection is started. Poorly executed shop drawings shall be rejected and re submitted.
   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 all existing utility locations and notify the Engineer immediately of any descrepancies.
   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, ect.) during construction shall be replaced at the Contractors expense.
   J. Removal of the existing curb and gutter shall be as per COA standard drawing 2415 (sawcut only).
   K. Chamfer all exposed corners 3/4" TYP.
4. MATERIALS:
   A. Cast-in-Place Concrete:
      (1) All concrete shall conform to the City of Albuquerque specifications for Structural Concrete, Section 101 and Table 101.C Concrete for Hydraulic Structures.
   B. 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 metal 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.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26 4569.932594

NOTIFY AMAFCA 2 DAYS PRIOR TO WORK IN R.O.W. AMAFCA MUST INSPECT STEEL & FORMWORK PRIOR TO CASTING CONCRETE

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

RIPRAP NOTES

(1) Riprap shall consist of locally-obtainable basalt supplied and installed in accordance with section 603 of the standard specifications. Riprap shall be type M per section 109. On site rock will have to be sorted to meet gradation.
(2) 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

(3) Riprap subgrade scarified and compacted to a depth of 6" at minimum 90% ASTM D-1557 Density.

HANDRAIL NOTES

1. All posts, rails, plates, angles, bolts, etc... Shall be of structural steel and galvanized per C.O.A. standards.
2. Install chain link fabric on outside of pipe rail.
3. Tension wire shall be 7 ga. spring steel w/11 ga. wire ties @ 24"±c.c.
4. Tension bars and three (3) clamps at each corner post.
5. Tack weld chain link fabric @ 3 points along each frame member.
6. Point all field welds with galvanizing coating.

RECORD DRAWING
I, A. E. Schumacher, Registered Professional Engineer and Land Surveyor in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.

A. E. Schumacher — Date 3/31/94
NMPE/LS NO. 2360

AS-BUILT INFORMATION
CONTRACTOR — DATE
WORK STAKED BY — DATE
STAKING CHECKED BY — DATE
ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS
STATION MARK IS A STANDARD USC & GS 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

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
GREGORY A. WALDROUP, JR. NEW MEXICO No. 7963 REGISTERED PROFESSIONAL ENGINEER
9/3/93

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY DMB — DATE 8/93
DRAWN BY LER — DATE 8/93
CHECKED BY DMB — DATE 8/93

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

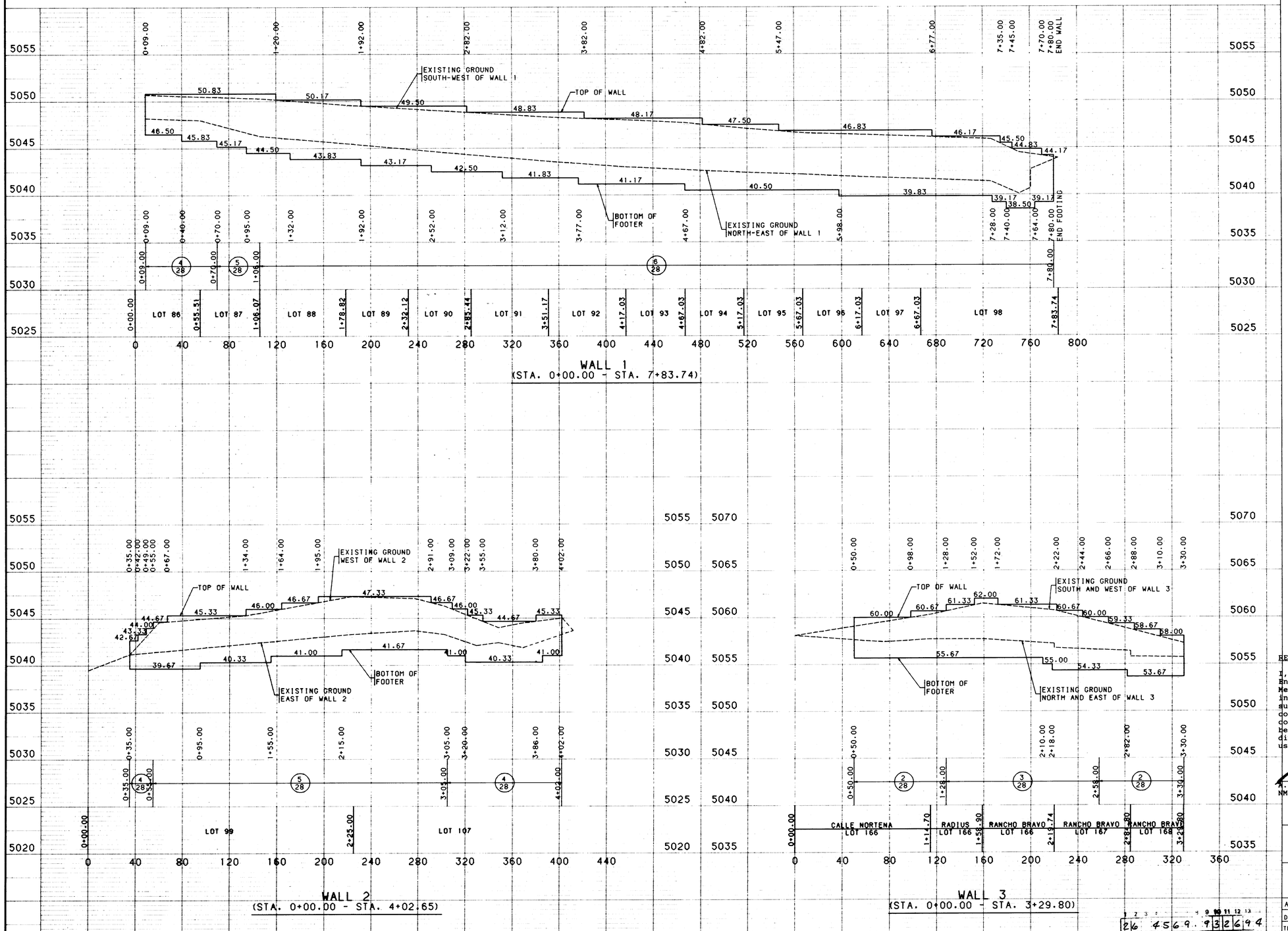
TITLE: RANCHO SERENO SUBDIVISION – UNIT II
ENERGY DISSIPATOR PLAN & SECTIONS
RANCHO SERENO

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. CHAIR		10-07-93	WATER	N/A RWK	9-9-93
TRANS. DEV.	N/A RWO	9-27-93	WASTE WATER	N/A RWK	9-9-93
HYDROLOGY		09/09/93	NMUI		
AMAFCA		9-24-93			

PROJECT NO. 4569.93 — MAP NO. C-12 & D-12 — SHEET 25 OF 28

SCANNED BY BY LASON

COE-ED.DWG 8/27/93



RECORD DRAWING

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A. E. Schumacher
NMPE/LS No. 2360

3/31/94
Date

STATE OF NEW MEXICO — ALBERT E. SCHUMACHER — 2360 — REGISTERED PROFESSIONAL ENGINEER & LAND SURVEYOR

AS-BUILT INFORMATION

CONTRACTOR
WORK STAKED BY
INSPECTOR'S ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS

STATION MARK IS A STANDARD USCGGS 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 PRARIE. ELEV. = 5049.93

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

KENT L. RAWE — NEW MEXICO — 1984 — REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY KLD — DATE 8/93
DRAWN BY SAR/MSJ — DATE 8/93
CHECKED BY KLD — DATE 8/93

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING

RANCHO SERENO SUBDIVISION - UNIT II

RETAINING WALL PROFILES

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	Billy Gatley	10-07-93	WATER	N/A RWE	9-8-93
TRANSPORTATION	N/A RWE	9-8-93	WASTE WATER	N/A RWE	9-8-93
HYDROLOGY		09/07/93			

BHI JOB NO. 92287.01

SCALE: 1" = 40' (HORIZ.) 1" = 5' (VERT.)

PROJECT NO. 4569.93 — MAP NO. C-12 D-12 — SHEET 26 OF 28

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SCANNED BY RAYTASON

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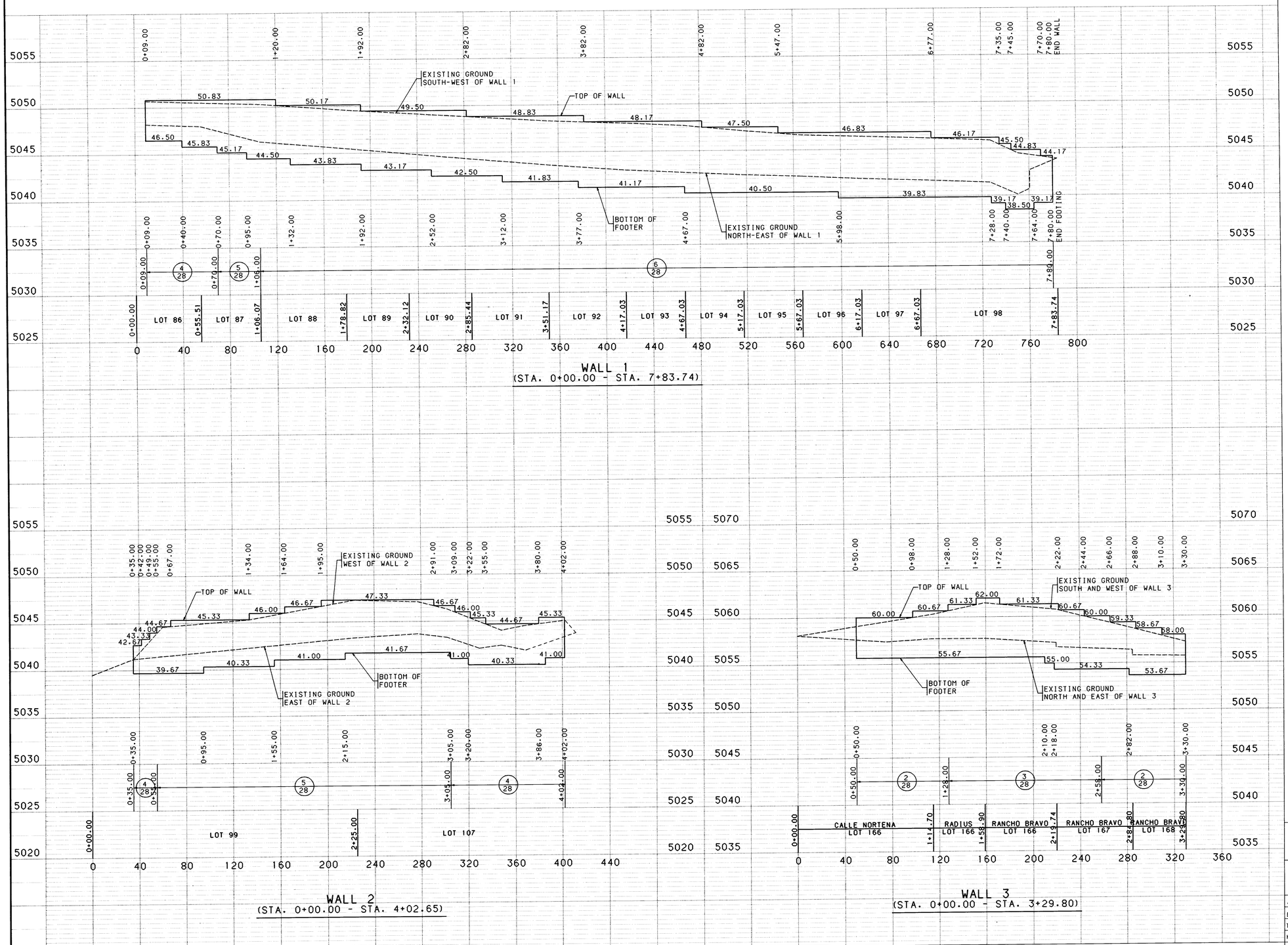

AS-BUILT INFORMATION

CONTRACTOR
WORK STAKED BY
INSPECTOR'S ACCEPTANCE BY — DATE
VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS

	DATE	
STATION MARK IS A STANDARD USC&GS BRASS TABLET, STAMPED "HUGHES, 1934", 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		

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY KLD — DATE 8/93
DRAWN BY SAR/MSJ — DATE 8/93
CHECKED BY KLD — DATE 8/93

216 4569.932694A

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING

RANCHO SERENO SUBDIVISION - UNIT II

RETAINING WALL PROFILES

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	Billy Gockley	10-07-93	WATER	N/A RWK	9-9-93
TRANSPORTATION	N/A RWS	9-09-93	WASTE WATER	N/A RWK	9-9-93
HYDROLOGY	[illegible]	09/07/93			

BHI JOB NO. 92287.01

SCALE: 1" = 40' (HORIZ.) 1" = 5' (VERT.)

PROJECT NO. 4569.93 | MAP NO. C-12 D-12 | SHEET 26 OF 28

USERNAME: CDP2:[C9228701.PADJ]
FILENAME: WALL-PROFILE.GRF

SCANNED BY K. LASON

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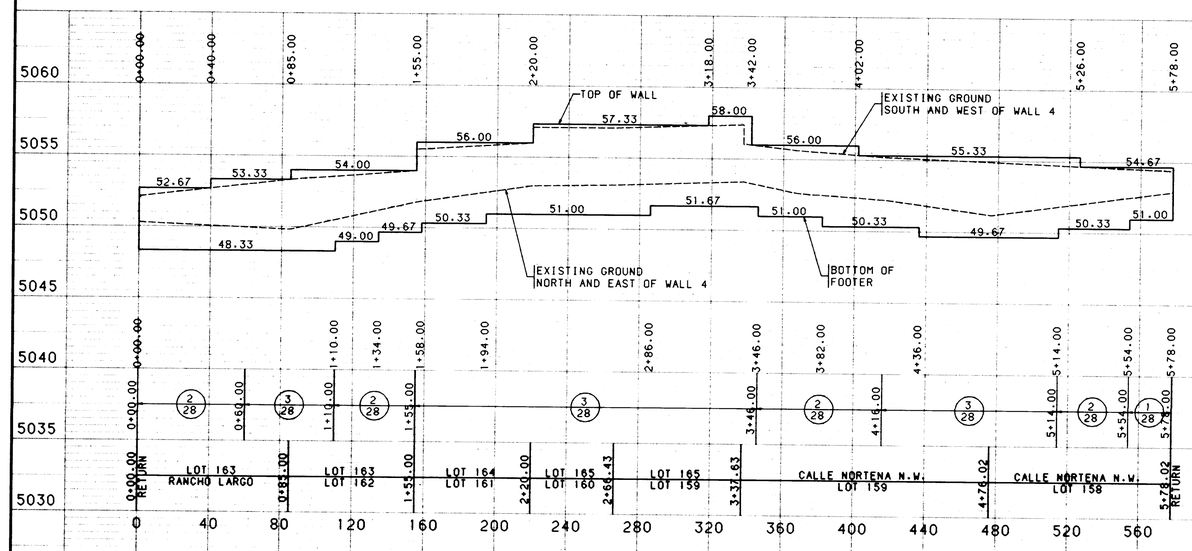

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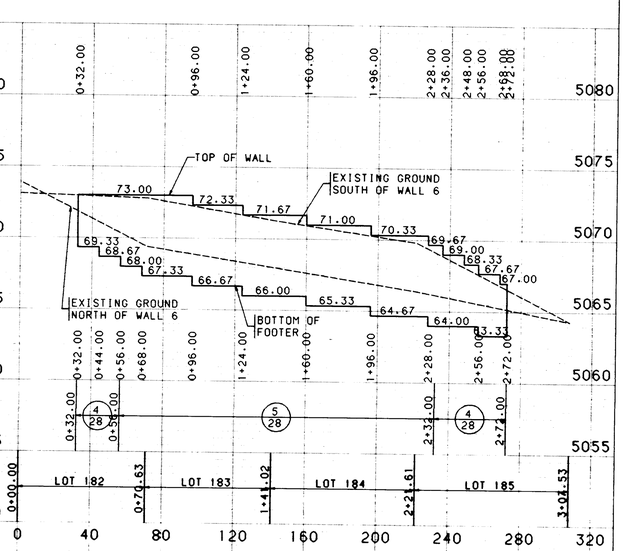

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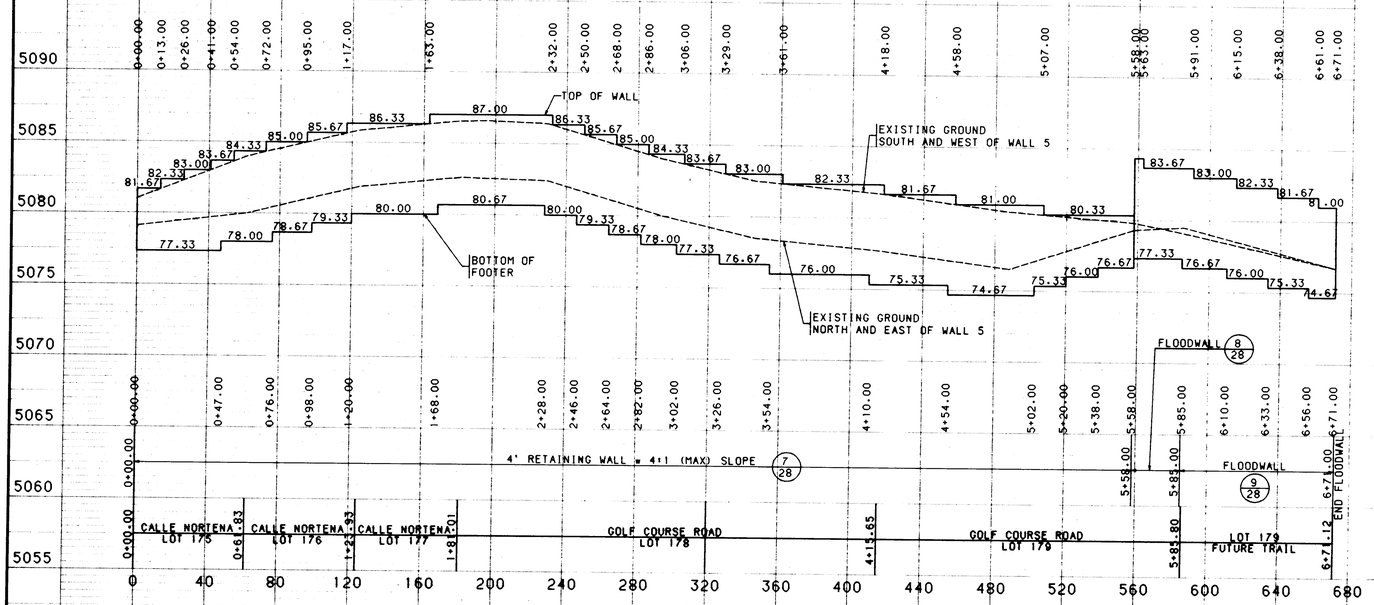

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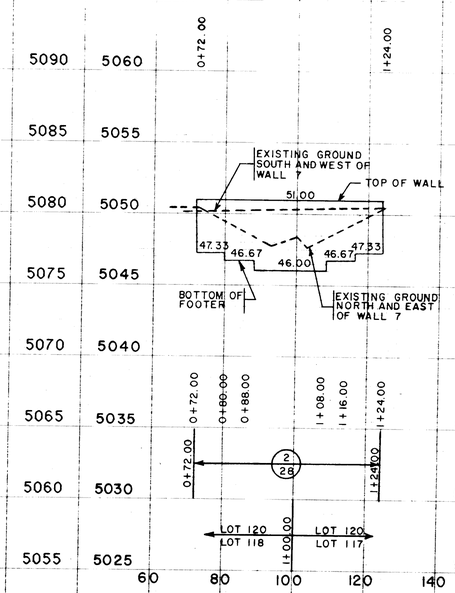

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216 4569.932794

BHI JOB NO. 92287.01

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FILENAME: WALL-PROFILE2.GRF

SCANNED BY BY LASON

SCALE: 1" = 40' (HORIZ.) 1" = 5' (VERT.)

AS-BUILT INFORMATION	
CONTRACTOR	
WORK STAKED BY	
INSPECTOR'S ACCEPTANCE BY	DATE
FIELD VERIFICATION BY	DATE
DRAWINGS CORRECTED BY	DATE
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	

BENCH MARKS

STATION MARK IS A STANDARD USC&GS 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 PRARIE. ELEV. = 5049.93

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY	DATE
		REVISIONS		
		DESIGN		DATE 8/93
				DATE 8/93
				DATE 8/93

DESIGNED BY KLD
DRAWN BY SAR/MSJ
CHECKED BY KLD

RECORD DRAWING

I, A. E. Schumacher, Registered Professional Engineer and Land Surveyor in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.

A. E. Schumacher 3/31/94
NMPE/LS No. 2360 Date

STATE OF NEW MEXICO ALBERT E. SCHUMACHER 2360 REGISTERED PROFESSIONAL ENGINEER & LAND SURVEYOR

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING

RANCHO SERENO SUBDIVISION - UNIT II
RETAINING WALL PROFILES

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN		10-07-93	WATER	N/A RWK	9-9-93
TRANSPORTATION	N/A LHP	9-09-93	WASTE WATER	N/A RWK	9-9-93
HYDROLOGY		09/07/93			

PROJECT NO. 4569.93 | MAP NO. C-12 D-12 | SHEET 27 OF 28

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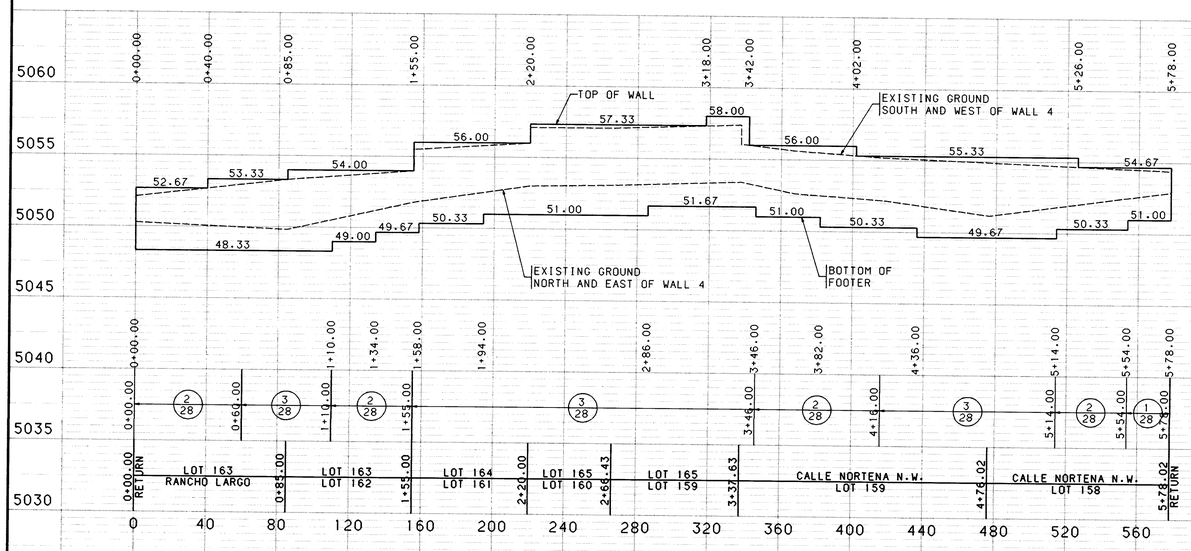

WALL 4
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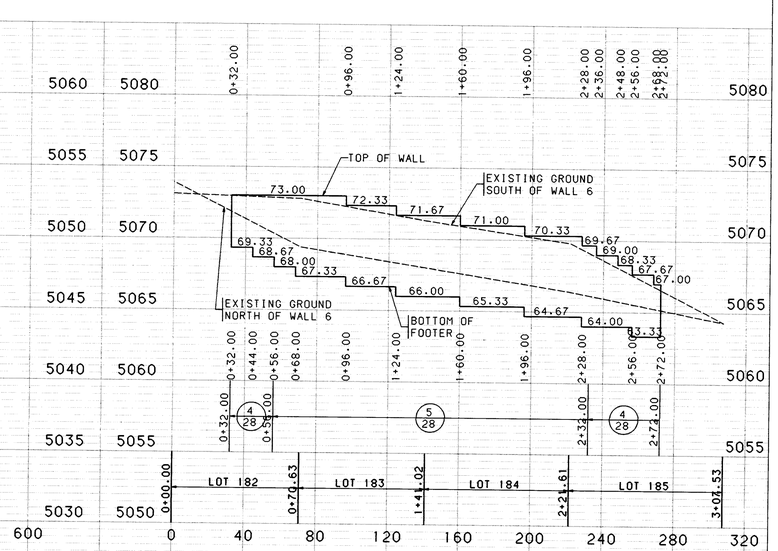

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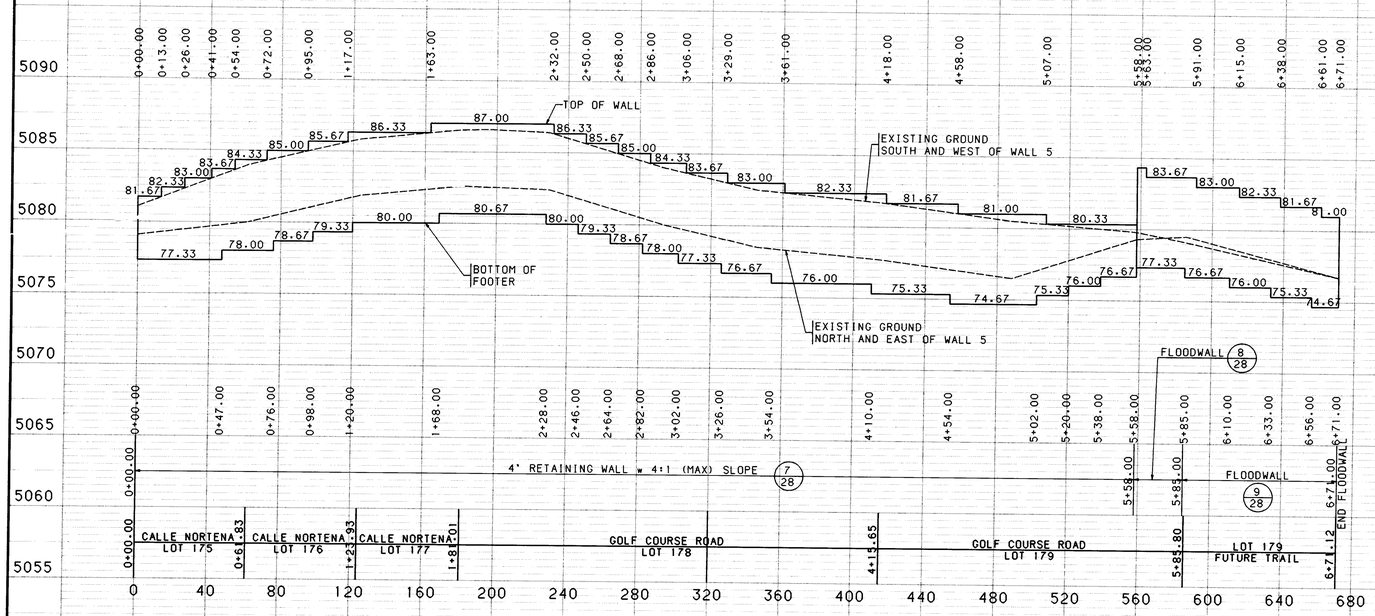

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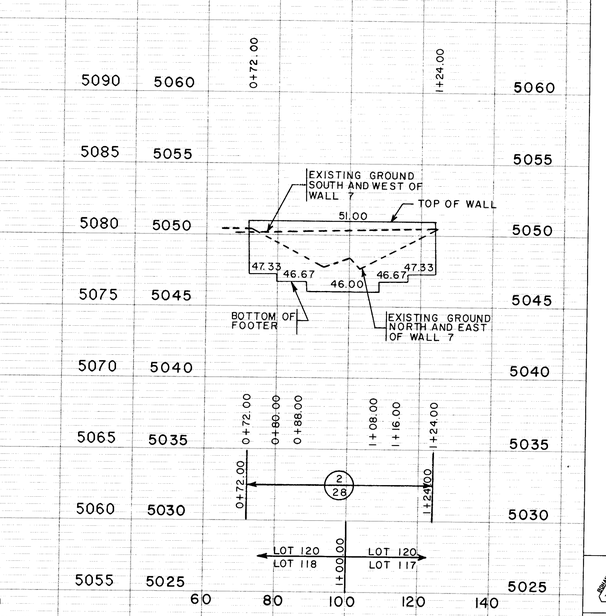

WALL 7
(STA. 0+72.00 - STA. 1+24.00)

AS-BUILT INFORMATION
CONTRACTOR
WORK STAKED BY
INSPECTOR'S ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS

DATE	STATION MARK IS A STANDARD USC&GS 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 PRARIE. ELEV. = 5049.93

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
9-9-93

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY KLD DATE 8/93
DRAWN BY SAR/MSJ DATE 8/93
CHECKED BY KLD DATE 8/93

26 4569.93 2794A

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING

RANCHO SERENO SUBDIVISION - UNIT II
RETAINING WALL PROFILES

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
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TRANSPORTATION	N/A GHP	9-09-93	WASTE WATER	N/A RWK	9-9-93
HYDROLOGY		09/07/93			

BHI JOB NO. 92287.01

SCALE: 1" = 40' (HORIZ.) 1" = 5' (VERT.)

PROJECT NO. 4569.93 | MAP NO. C-12 D-12 | SHEET 27 OF 28

USERNAME: CDP2:[C9228701.F
FILENAME: WALL-PROFILE

SCANNED BY ASCON

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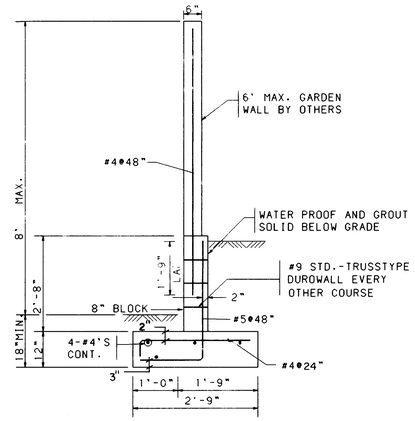
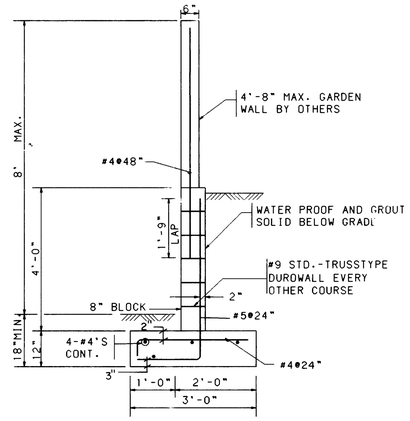


1 2'MAX RETAINING WALL
NO SCALE



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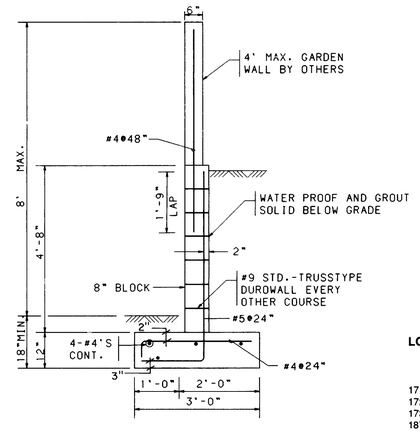

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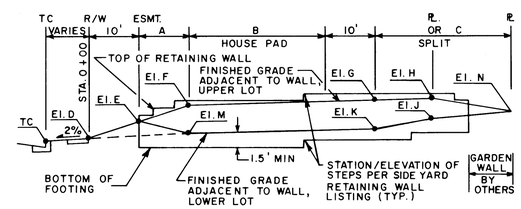


TYPICAL SIDE YARD RETAINING WALL
NO SCALE

SIDE YARD RETAINING WALL LISTING

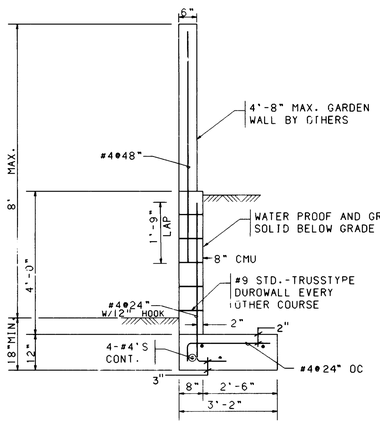
LOT	DIMENSION (FEET)			ELEVATION								
	A	B	C	D	E	F	G	H	J	K	M	N
171/172	10	60	36.77	63.67	64.24	64.8	65.2	68.74	68.74	63.4	63.9	N.A
172/173	10	60	35.88	65.01	65.91	66.8	67.2	74.01	74.01	65.5	65.1	N.A
173/174	10	60	46.70	67.14	68.12	69.1	69.7	77.93	77.93	67.7	67.3	N.A
187/188	10	40	37.06	62.96	64.08	65.2	65.6	66.1	64.5	63.6	63.2	N.A
		60	17.06	(NOTE: Pad 187 is 55'x40'; Pad 188 is 55'x60'.)								
188/189	10	60	21.22	60.75	61.83	62.9	63.3	63.5	62.0	61.4	61.0	N.A
189/190	10	60	35.91	58.17	59.44	60.7	61.1	61.3	59.0	58.8	58.4	59.0
190/191	10	60	50.93	55.57	56.84	58.1	58.5	58.7	56.5	56.2	55.8	56.3
191/192	10	60	55.04	52.97	54.24	55.5	55.9	56.1	54.0	53.6	53.2	54.6
192/193	10	60	59.65	50.87	51.89	52.9	53.3	53.7	52.0	51.5	51.1	53.4

STEPS IN BOTTOM OF FOOTING

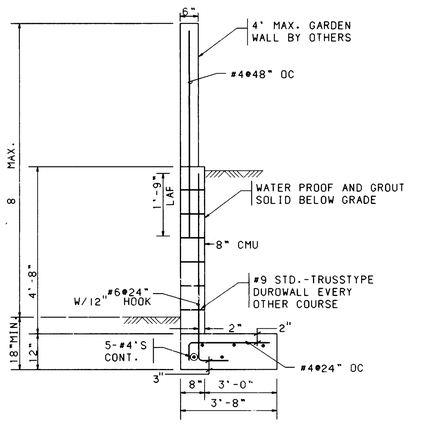
LOT	TYPE			
171/172	1/28	Sta. 0+60, El.62.00;	Sta. 0+76, El.61.33;	Sta. 0+96, El.61.33
172/173	1/28	Sta. 0+10, El.63.33;	Sta. 0+90, El.64.00;	Sta. 0+96, El.64.00
173/174	1/28	Sta. 0+10, El.65.33;	Sta. 0+58, El.66.00;	Sta. 0+94, El.66.67;
		Sta. 1+02, El.66.67		
187/188	2/28	Sta. 0+10, El.61.33;	Sta. 0+74, El.62.00;	Sta. 1+02, El.62.67;
		Sta.1+07.06 El.62.67		
188/189	1/28	Sta. 0+10, El.59.33;	Sta. 0+94, El.60.00;	Sta.1+11.22 El.60.00
189/190	2/28	Sta. 0+10, El.56.67;	Sta. 0+94, El.57.33;	Sta.1+25.91 El.57.33
190/191	2/28	Sta. 0+10, El.54.00;	Sta. 0+86, El.54.67;	Sta. 1+20, El.54.67
191/192	2/28	Sta. 0+10, El.51.33;	Sta. 0+74, El.52.00;	Sta. 1+20, El.52.00
192/193	1/28	Sta. 0+10, El.49.33;	Sta. 0+90, El.50.00;	Sta. 1+24, El.50.00

STEPS IN TOP OF WALL

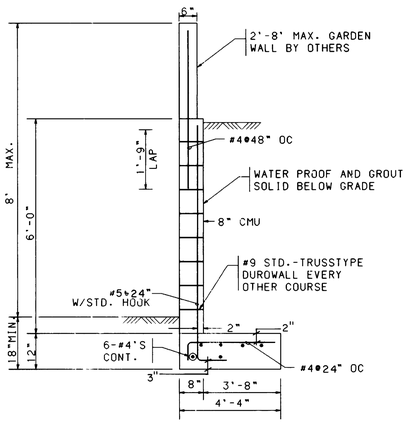
LOT	TYPE			
171/172	1/28	Sta. 0+60, El.65.67;	Sta. 0+94, El.66.33;	Sta. 0+96, El.66.33
172/173	1/28	Sta. 0+10, El.66.33;	Sta. 0+14, El.67.00;	Sta. 0+40, El.67.67;
		Sta. 0+92, El.68.33;	Sta. 0+96, El.68.33	
173/174	1/28	Sta. 0+10, El.69.00;	Sta. 0+18, El.69.67;	Sta. 0+86, El.70.33;
		Sta. 0+93, El.71.00;	Sta. 0+97, El.71.67;	Sta. 1+02, El.71.67
187/188	2/28	Sta. 0+10, El.64.33;	Sta. 0+12, El.65.00	Sta. 0+18, El.65.67;
		Sta. 0+74, El.66.33;	Sta.1+07.06 El.66.33	
188/189	1/28	Sta. 0+10, El.62.33;	Sta. 0+14, El.63.00;	Sta. 0+20, El.63.67;
		Sta.1+11.22 El.63.67		
189/190	2/28	Sta. 0+10, El.60.33;	Sta. 0+17, El.61.00;	Sta. 0+70, El.61.67;
		Sta. 1+13, El.61.00;	Sta. 1+18, El.60.33;	Sta. 1+22, El.59.67;
		Sta.1+25.91 El.59.67		
190/191	2/28	Sta. 0+10, El.57.67;	Sta. 0+16, El.58.33;	Sta. 0+60, El.59.00;
		Sta. 1+16, El.58.33;	Sta. 1+20, El.58.33	
191/192	2/28	Sta. 0+10, El.55.00;	Sta. 0+16, El.55.67;	Sta. 0+50, El.56.33;
		Sta. 1+20, El.56.33		
192/193	1/28	Sta. 0+10, El.52.33;	Sta. 0+14, El.53.00	Sta. 0+36, El.53.67;
		Sta. 1+24, El.53.67		



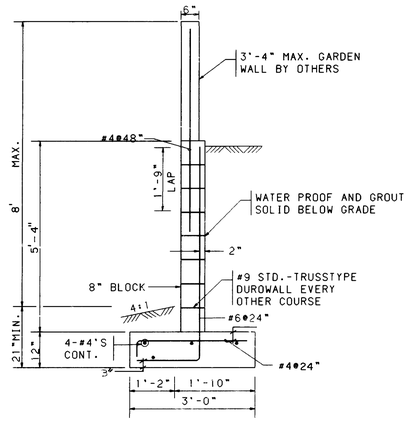
4 3'MAX. RETAINING WALL
NO SCALE



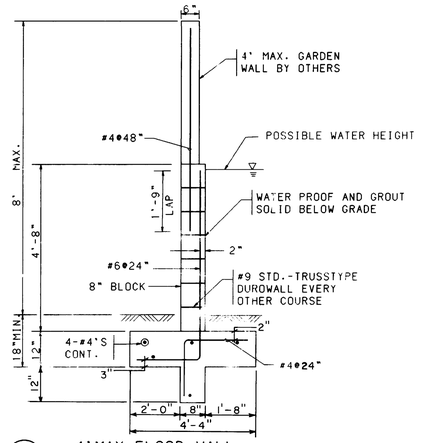
5 4'MAX RETAINING WALL
NO SCALE



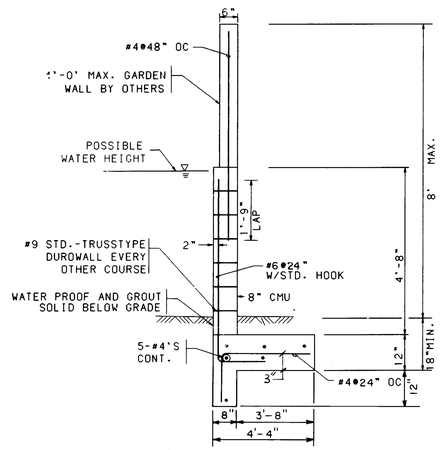
6 5'MAX. RETAINING WALL
NO SCALE



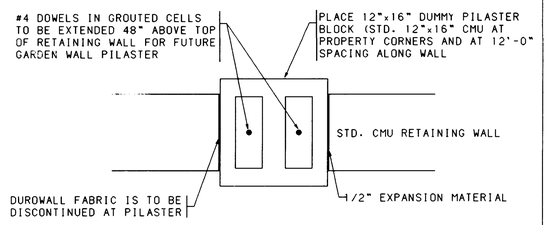
7 4'MAX RETAINING WALL
NO SCALE



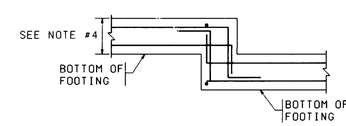
8 4'MAX FLOOD WALL
NO SCALE



9 4'MAX FLOOD WALL
NO SCALE



TYPICAL PILASTER DETAIL
NO SCALE



TYPICAL STEPPED FOOTING DETAIL
BARS AS PER RETAINING WALL DETAILS
NO SCALE

BHI JOB NO. 92287.01

USERNAME: CDP2:[C9228701.PAD]
FILENAME: WALLDTL-CMU.GRF

SCANNED BY
BY LASON

GENERAL NOTES (RETAINING WALL CONST.)

1. RETAINING WALL FOOTINGS SHOULD BE EMBEDDED A MINIMUM OF EIGHTEEN INCHES BELOW LOWEST ADJACENT GRADE. PRIOR TO PLACING FOOTINGS, THE EXPOSED SOILS SHOULD BE SCARIFIED TO A DEPTH OF EIGHT (8") INCHES. MOISTURE CONDITIONED TO A NEAR OPTIMUM (±3%) MOISTURE CONTENT AND COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D-1557.

2. RETAINING WALL SHALL NOT BE BACK-FILLED 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 IMPACT FORCES ON THE WALL AS COULD BE CAUSED BY A LARGE MASS OF MOVING EARTH.

   SLOPES UP AWAY FROM WALLS SHOULD NOT EXCEED 4:1.

3. VERTICAL CONTROL JOINTS WITH PVC INSERTS SHALL BE PLACED AT INTERVALS NOT TO EXCEED 30'-0" ON CENTER. PILASTERS MAY BE SUBSTITUTED FOR CONTROL JOINTS WHEN PLACED AT 12'-0" INTERVALS. PILASTERS SHALL BE PLACED AT EVERY SIDE LOT LINE INTERSECTION. DISCONTINUE DUROWALL EACH SIDE OF PILASTERS.

4. MINIMUM LAP SPLICE ON REINFORCING BARS SHALL BE 30 BAR DIAMETERS OR 1'-4" MINIMUM. REINFORCEMENT OF A SIZE AND SPACING OTHER THAN THAT GIVEN IN THE TABLES MAY BE USED PROVIDING SUCH OTHER REINFORCEMENT FURNISHES AN AREA OF STEEL AREA AT LEAST EQUAL TO THAT GIVEN IN THE TABLE.

5. CONSTRUCTION OF RETAINING WALLS SHALL CONFORM TO REQUIREMENTS OF THE UNIFORM BUILDING CODE SECTION 24. LOWLIFT GROUTING METHOD.

6. OMISSION OF A VERTICAL MORTAR JOINT ON FIRST COURSE AT 48" O.C. SHALL BE USED FOR WEEP HOLES. WHITE SLUMP BLOCK WITH MINIMUM COMPRESSIVE STRENGTH OF 1500 PSI MAY BE SUBSTITUTED FOR STANDARD CMU GRADE N.

7. DESIGN DATA
   BLOCK WEIGHT 12" = 130 PSF
   BLOCK WEIGHT 8" = 85 PSF
   SOIL WEIGHT = 110 PCF
   EQUIV. FLUID PRESSURE = 32 PCF
   SOIL BEARING PRESSURE = 1500 PCF
   (1/3 INCREASE FOR WIND/SEISMIC)
   COEFFICIENT OF FRICTION = 0.4
   PASSIVE SOIL PRESSURE = 300 PCF
   CONCRETE F'C (28 DAYS) = 3000 PSI
   GROUT STRENGTH = 2000 PSI
   CMU GRADE N = 1500 PSI (GROUTED)
   REINFORCEMENT = 60 ASTM A-615

8. 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.

9. CONTRACTOR SHALL BE RESPONSIBLE FOR CODE ADMINISTRATION APPROVAL AND FEES ASSOCIATED WITH IT.

10. ALL CELLS BELOW GRADE SHALL BE FULLY GROUTED.

11. THE CONTRACTOR SHALL BE RESPONSIBLE TO SEE THAT ALL REBAR IS PROPERLY ALIGNED AND TIED IN PLACE BEFORE PLACING CONCRETE. ALL STEEL SHALL BE ACCURATELY LOCATED AND SECURED IN PLACE SO THAT IT REMAIN IN POSITION DURING THE PLACEMENT OF THE CONCRETE. ANY REBAR IMPROPERLY INSTALLED SHALL BE REMOVED AT NO ADDITIONAL COST TO THE OWNER.

1 2 3 4 5 6 7 8 9 10 11 12
26 4569.932894

AS BUILT INFORMATION
CONTRACTOR | DATE
WORK STAKED BY | DATE
ASBUILT INSPECTED BY | DATE
FIELD VERIFICATION BY | DATE
DRAWINGS CORRECTED BY | DATE
MICRO-FILM INFORMATION
RECORDED BY | DATE
NO. | DATE

BENCH MARKS
STATION MARK IS A STANDARD USC&GS 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

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEERS SEAL
GONZALO A. WALLDORF, JR. NEW MEXICO No. 7968 REGISTERED PROFESSIONAL ENGINEER
8/13/93

REVISIONS
NO. | DATE | REMARKS | BY

DESIGN
DESIGNED BY JCA DATE 8/93
DRAWN BY SG,JCA DATE 8/93
CHECKED BY GW DATE 8/93

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: RANCHO SERENO SUBDIVISION
UNIT II
CMU RETAINING WALL DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	Billy Gordon	10-07-93	WATER	N/A RWK	9-9-93
TRANS. DEV.	N/A	9-9-93	WASTE WATER	N/A RWK	9-9-93
HYDROLOGY	G. Ulloy	09/09/93			

PROJECT NO. 4569.93 | MAP NO. C-12 D-12 | SHEET 28 OF 28

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