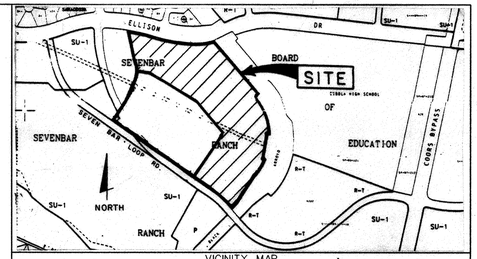
CONSTRUCTION PLANS
FOR
COTTONWOOD HILLS SUBDIVISION
ALBUQUERQUE, NEW MEXICO



VICINITY MAP
NOT TO SCALE

A-13/B-13

INDEX

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.6
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. FIVE (5) 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 W/ PLASTIC REFLECTORIZED PAVEMENT MARKING BY CONTRACTOR TO LOCATION 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 CITY SURVEYOR MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE CITY SURVEYOR AND SHALL NOTIFY THE CITY SURVEYOR AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR. 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. ANY PERMANENT SURVEY MONUMENT LOCATED WITHIN 50' OF THE PROJECT LIMITS NOT SHOWN ON THE PLANS THAT IS DESTROYED DURING CONSTRUCTION WILL BE REPLACED AT DESIGNER'S EXPENSE.
7. ANY WORK WITHIN AN ARTERIAL ROADWAY REQUIRES TWENTY-FOUR HOUR CONSTRUCTION.
8. ALL UTILITY WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH NEW MEXICO UTILITIES INC. SPECIFICATIONS FOR WATER AND WASTEWATER FACILITIES (MOST RECENT REVISIONS)
9. THECONTRACTOR SHALL NOTIFY NEW MEXICO UTILITIES. (898-2661) THREE WORKING DAYS PRIOR TO BEGINNING THE CONSTRUCTION OF THE UTILITIES.
10. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY GRAFFITI FROM ALL EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.

THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED

- [X] ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- [X] BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
- [ ] TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE CITY ENGINEER.
- [X] 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.
- [X] ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.
- [X] 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.

APPROVAL OF AS BUILT DRAWINGS
CHIEF CONSTRUCTION ENGINEER
Peter Chang
DATE 1-24-00
COA INSPECTOR: MARCIAL MARTINEZ

SURVEYOR'S CERTIFICATION

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

11-16-99
Date

Timothy Aldrich, PLS No. 7719

3-11-99
NM UTILITIES

DRB# 98-138

Bohannan ▲ Huston
Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109
ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE

ENGINEERS STAMP & SIGNATURE

JAMES B. HOPMAILER
NEW MEXICO
9354
REGISTERED PROFESSIONAL ENGINEER
John B. Hopmailer
3.10.99

APPROVALS	ENGINEER	DATE
DRC Chairman	Billy J. Goldsby	4-3-99
Transportation	[illegible]	3-30-99
Water/Wastewater	R.W. Keane	3-30-99
Hydrology	[illegible]	3-30-99
Const. Coord.	[illegible]	4-14-99
Const. Mngmt.		
CIP		
A.M.A.F.C.A	[illegible]	3-11-99
City Project No.	6092.81	

APPROVED FOR CONSTRUCTION

[illegible] 5-20-99
City Engineer Date

Sheet 1 Of

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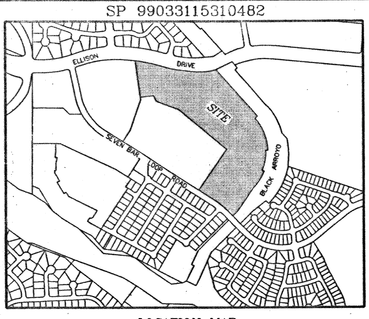
BH JOB NO. 99413A02
FEBRUARY, 1999

SP 99033115310482



LOCATION MAP

ZONE ATLAS INDEX MAP No. A-13-Z & B-13-Z
NOT TO SCALE

SUBDIVISION DATA

1. DRB No. 98-138
2. Zone Atlas Index No. A-13-Z & B-13-Z.
3. Gross Subdivision Acreage: 29.7743 Acres.
4. Total Number of Lots/Tracts created: 124 Lots and 1 Tract
5. Total Mileage of full width Streets created: 0.8046 mile.
6. Total Mileage of one-half (1/2) width Streets created: 0 mile.
7. Date of Survey: November, 1994
8. Plat is located within the Town of Alameda Grant, within projected Sections 6 & 7, T11N, R3E, NMPM.

DISCLOSURE STATEMENT

The purpose of this Plat is to subdivide all of Tract A-2A-1 of the PLAT OF TRACT A-2A-1 & A-2A-2 SEVEN-BAR RANCH, Albuquerque, New Mexico as the same is shown and designated on the plat thereof, recorded in the office of the County Clerk of Bernalillo County, New Mexico on September 24, 1998 in Book 98C, Page 286 as Document No. 1998122026, into 124 Lots and 1 Tract, to vacate easements, to grant easements and to dedicate additional Public Street Right-of-Way to the City of Albuquerque.

PUBLIC UTILITY EASEMENTS

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

A. PNM Electric Services for the installation, maintenance, and service of underground electrical lines, transformers, and other equipment, fixtures, structures and related facilities reasonably necessary to provide electrical service.

B. PNM Gas Services 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 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.

E. New Mexico Utilities, Inc. for the installation, maintenance and service of underground water and sanitary sewer lines across the easement (But not parallel within).

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.

DESCRIPTION

A certain tract of land situate within the Town of Alameda Grant, within projected Sections 6 and 7, Township 11 North, Range 3 East, New Mexico Principal Meridian, Bernalillo County, Albuquerque, New Mexico, being and comprising all of Tract A-2A-1 of the PLAT OF TRACT A-2A-1 & A-2A-2 SEVEN-BAR RANCH, Albuquerque, New Mexico, as the same is shown and designated on the plat thereof, recorded in the office of the County Clerk of Bernalillo County, New Mexico on September 24, 1998 in Book 98C, page 286 as Document No. 1998122026 and being more particularly described by New Mexico State Plane Grid bearings, (Central Zone NAD 1927) and ground distances as follows:

BEGINNING at the most southerly corner of said Tract A-2A-1, a point of intersection of the westerly right-of-way line of the A.M.A.F.C.A. Flood Diversion Channel No. 2 and northeasterly right-of-way line of Seven-Bar Loop Road N.W., whence the Albuquerque City Survey (ACS) monument "4-B13", a 3-1/4 inch aluminum cap riveted to a pipe and having New Mexico State Plane Grid Coordinates, Central Zone (NAD 1927) of X=375,489.27 and Y=1,525,104.55 bears S02°20'46"W, a distance of 3499.90 feet and from said point and place of beginning running thence along southwesterly boundary line of said Tract A-2A-1 and also along said northeasterly right-of-way line,
N44°43'00"W, a distance of 29.15 feet to a point; thence,
N44°42'16"W, a distance of 99.86 feet to a point of curvature; thence,
194.30 feet along the arc of a curve to the left having a radius of 884.00 feet and a chord which bears N51°00'04"W, a distance of 193.91 feet to a point of tangency; thence,
N57°17'52"W, a distance of 192.48 feet to a point; thence leaving said northeasterly right-of-way line and running thence along the southwesterly boundary line of said Tract A-2A-1,
N33°05'51"E, a distance of 599.25 feet to a point; thence,
N49°01'21"W, a distance of 701.77 feet to a point; thence,
N71°07'42"W, a distance of 328.58 feet to a point; thence,
N54°59'09"W, a distance of 52.05 feet to a point; thence,
S87°28'50"W, a distance of 140.63 feet to a point; thence,
N07°27'36"W, a distance of 425.58 feet to the northwest corner of said Tract A-2A-1, a point on a curve (non-tangent) on the southerly right-of-way line of Ellison Drive N.W., thence running along the northerly boundary line of said Tract A-2A-1 and also along said right-of-way line,
345.65 feet along the arc of a curve to the right having a radius of 2132.70 feet and a chord which bears S78°13'46"E, a distance of 345.28 feet to a point of reverse curvature; thence,
289.43 feet along the arc of a curve to the left having a radius of 1278.00 feet and a chord which bears S80°04'29"E, to a point of compound curvature (non-tangent); thence,
324.64 feet along the arc of a curve to the left having a radius of 746.21 feet and a chord which bears N87°28'24"E, a distance of 322.09 feet to a point of non-tangency; thence,
S41°43'40"E, a distance of 11.18 feet to a point of curvature (non-tangent); thence,
59.36 feet along the arc of a curve to the left having a radius of 756.21 feet and a chord which bears N72°22'48"E, a distance of 59.35 feet to the northeast corner of said Tract A-2A-1, a point on the westerly right-of-way line of the A.M.A.F.C.A. Flood Diversion Channel No. 2, thence running along the easterly boundary line of said Tract A-2A-1 and also along said right-of-way line,
S41°43'40"E, a distance of 692.17 feet to a point of curvature; thence,
1034.11 feet along the arc of a curve to the right having a radius of 680.95 feet and a chord which bears S01°46'40"W, a distance of 937.56 feet to a point of tangency; thence,
S45°17'00"W, a distance of 400.48 feet to the point and place of beginning.

Tract contains 29.7743 acres, more or less.

NOTES

1. Bearings are New Mexico State Plane Grid Bearings (Central Zone NAD27) and are the same as shown on the PLAT OF TRACT A-2A-1 & A-2A-2 SEVEN-BAR RANCH, Albuquerque, New Mexico, recorded September 24, 1998 in Book 98C, Page 286 as Document No. 1998122026.
2. Distances are ground distances.
3. All easements of record are shown.
4. 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 MOMUMENTATION", "SURVEY MARKER", "DO NOT DISTURB", PLS #6544.
5. All Lots are to be "P1" and shall conform to intermittent Parking Design Criteria, Item #1.
6. No individual Lots shall be allowed direct access to Seven Bar Loop Road or Ellison Drive
7. Tract A-2A-1-A owned and maintained by the Landscape Maintenance Association.
8. These properties are within the New Mexico Utilities Inc. (NMU, Inc.) franchise area. Water and Sanitary Sewer Systems capability are based on NMU, Inc. facilities, not the City of Albuquerque.

FREE CONSENT AND DEDICATION

The foregoing Plat of that certain tract of land situate within the Town of Alameda Grant, within projected Sections 6 and 7, Township 11 North, Range 3 East, New Mexico Principal Meridian, Bernalillo County, Albuquerque, New Mexico, being and comprising all of Tract A-2A-1 of the PLAT OF TRACT A-2A-1 & A-2A-2 SEVEN-BAR RANCH, Albuquerque, New Mexico, as the same is shown and designated on the plat thereof, recorded in the office of the County Clerk of Bernalillo County, New Mexico on September 24, 1998 in Book 98C, Page 286 as Document No. 1998122026 now comprising Lots 15 thru 138 inclusive and Tract A-2A-1-A of COTTONWOOD HILLS SUBDIVISION SEVEN-BAR RANCH, Albuquerque, New Mexico is with the 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 all additional streets and public right-of-ways shown hereon to the City of Albuquerque in Fee Simple with Warranty Covenants, 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, pipes for underground utilities where shown or indicated, and in the event Grantor, its successors and assigns, constructs any improvements other than curb and gutter (Encroachments) within any easement area granted to or for the benefit of the City, the City shall have the right to access and to enter upon any such easement area at any time and perform such inspections, installations, maintenance and repair, including removal of the Encroachments (Work) without liability to the City. The City shall not be financially responsible for rebuilding or repair of the Encroachments, nor shall the City be financially responsible if the Work affects any of the Encroachments. The City shall also have the right if reasonably necessary, to enter Grantor's property to access the easement areas for the purposes of performing the Work. Grantor does hereby consent to all of the foregoing and does hereby certify that this subdivision is made with its free act and deed.

Double M Properties, Inc.

BY: Mike Mechenbier
Mike Mechenbier,
President, Double M Properties, Inc.

State of New Mexico)
SS
County of Bernalillo)

This instrument was acknowledged before me on this day of April, 1999, by Mike Mechenbier, President of Double M Properties Inc.,

MARY E. SNYDER
NOTARY PUBLIC
My Commission Expires:
My Commission Expires: 4-17-2000

Notary Public

SURVEYOR'S CERTIFICATION

I, A. Dwain Weaver, a registered Professional New Mexico Surveyor, certify that I am responsible for this survey and that this plat was prepared by me or under my supervision, shows all easements of record, and conforms to the Minimum Requirements of the Board of Registration for Professional Engineers and Professional Surveyors in February 1994 and 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.

A. Dwain Weaver
A. Dwain Weaver
New Mexico Professional Surveyor 6544
Date: APRIL 21, 1999

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

PLAT OF
COTTONWOOD HILLS SUBDIVISION SEVEN-BAR RANCH
(A REPLAT OF TRACT A-2A-1 SEVEN-BAR RANCH)
ALBUQUERQUE, NEW MEXICO
APRIL, 1999

APPROVALS

PLAT NUMBER _____

PLANNING DIRECTOR	DATE
CITY ENGINEER	DATE
A.M.A.F.C.A.	DATE
TRAFFIC ENGINEER	DATE 04-26-99
CITY SURVEYOR	DATE
PROPERTY MANAGEMENT	DATE
UTILITY DEVELOPMENT DEPARTMENT	DATE
PLANNING & POLICY SECTION, CIP	DATE
U.S. WEST COMMUNICATIONS	DATE 04-28-99
JONES INTERCABLE	DATE 4-28-99
PNM ELECTRIC SERVICES	DATE 4-28-99
PNM GAS SERVICES	DATE 4-28-99
NEW MEXICO UTILITIES, INC.	DATE 4-28-99

THIS IS TO CERTIFY THAT TAXES ARE CURRENT AND PAID
ON UPC#_____

PROPERTY OWNER OF RECORD: _____

BERNALILLO COUNTY TREASURER'S OFFICE	DATE

PNM STAMP

In approving this plat, PNM Electric Services and Gas Services (PNM) did not conduct a Title Search of the properties shown hereon. Consequently, PNM does not waive nor release any easement or easement rights to which it may be entitled.

JOB NO. 99-413A-03

Bohannan Huston
Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109
ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

SHEET 1 OF 7

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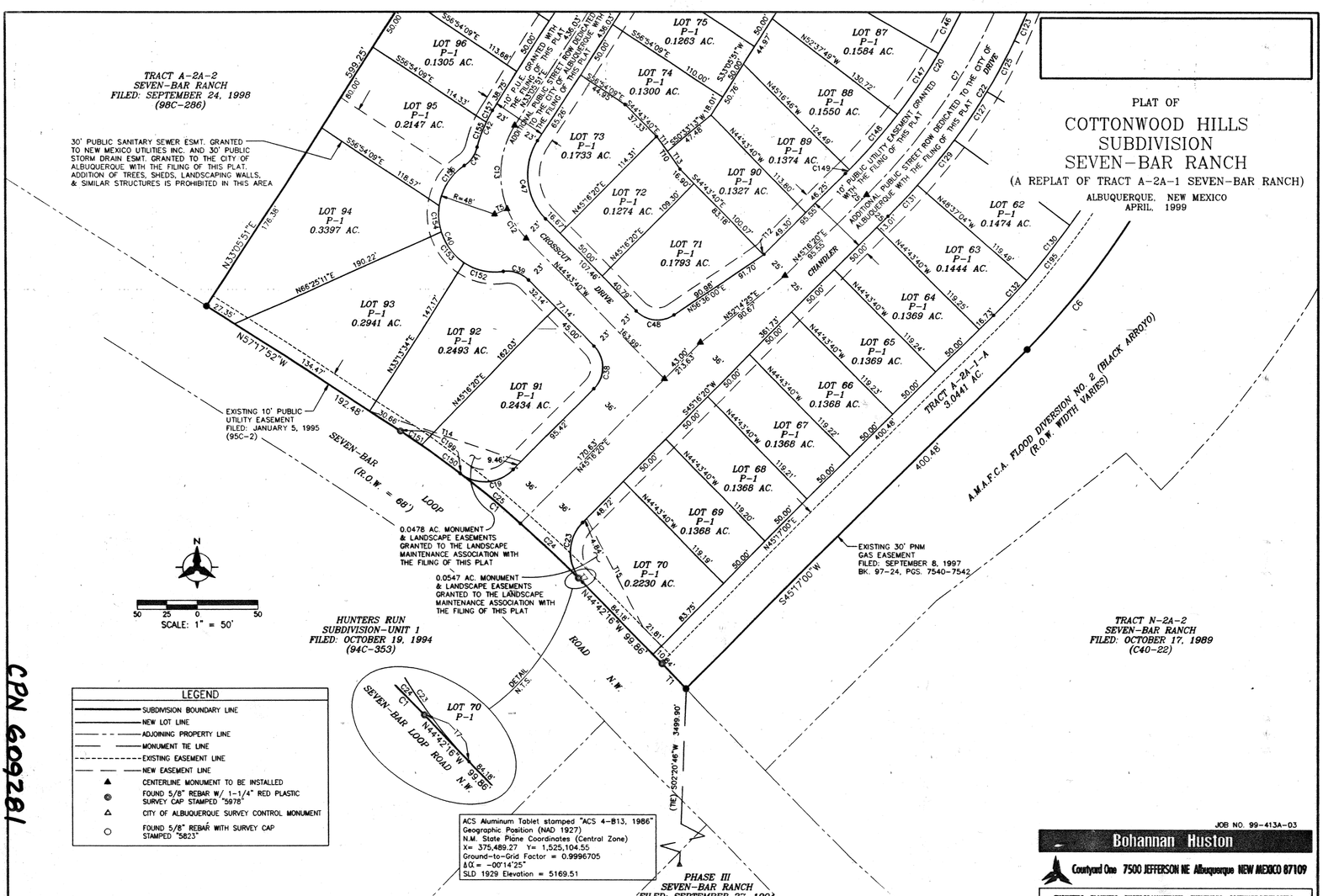

PLAT OF
COTTONWOOD HILLS SUBDIVISION SEVEN-BAR RANCH
(A REPLAT OF TRACT A-2A-1 SEVEN-BAR RANCH)
ALBUQUERQUE, NEW MEXICO
APRIL, 1999

JOB NO. 99-413A-03

Bohannan Huston
Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109
ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

SHEET 2 OF 7

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CPN 609281

SHEET 2A OF 24

PLAT OF
COTTONWOOD HILLS
SUBDIVISION
SEVEN-BAR RANCH
(A REPLAT OF TRACT A-2A-1 SEVEN-BAR RANCH)
ALBUQUERQUE, NEW MEXICO
APRIL, 1999

SCALE: 1" = 50'

ACS Brass Tablet stamped "3-B13"
Geographic Position (NAD 1927)
N.M. State Plane Coordinates (Central Zone)
X= 375,789.23 Y= 1,529,391.51
Ground-to-Grid Factor = 0.9996709
LAT. 34°56'14"
SLD 1929 Elevation = 5159.50

EXISTING 7' MOUNTAIN BELL UNDERGROUND TELEPHONE EASEMENT FILED: APRIL 21, 1965 MISC. R/W 143, PG. 329 VACATED BY VACATION ACTION

EXISTING 30' SOUTHERN UNION GAS COMPANY EASEMENT FILED: JANUARY 14, 1946 MISC. 220, PG. 547 FEBRUARY 28, 1961 MISC. D585, PG. 409 EASEMENT BY PLAT FILED: JUNE 8, 1981 C18-96 VACATED BY VACATION ACTION

A.M.A.F.C.A. FLOOD DIVERSION NO. 2 (BLACK ARROYO) (ROW WIDTH VARIES)

EXISTING 30' PNM GAS EASEMENT FILED: SEPTEMBER 8, 1997 BK: 97-24, POS. 7540-7542

TRACT A-2A-1-A 3.0441 AC.

10' PUBLIC UTILITY EASEMENT GRANTED WITH THE FILING OF THIS PLAT

ADDITIONAL PUBLIC STREET R.O.W. DEDICATED TO THE CITY OF ALBUQUERQUE WITH THE FILING OF THIS PLAT

CHAMOLLER DRIVE

TRACT A-2A-2

TRACTS A-2A-1 & A-2A-2 SEVEN BAR RANCH FILED: SEPTEMBER 24, 1998 (98C-206)

JOB NO. 99-413A-03

Bohannan Huston

Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109

ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

SHEET 3 OF 7

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PLAT OF
COTTONWOOD HILLS
SUBDIVISION
SEVEN-BAR RANCH
(A REPLAT OF TRACT A-2A-1 SEVEN-BAR RANCH)
ALBUQUERQUE, NEW MEXICO
APRIL, 1999

SCALE: 1" = 50'

ACS Brass Tablet stamped "3-B13"
Geographic Position (NAD 1927)
N.M. State Plane Coordinates (Central Zone)
X= 375,789.23 Y= 1,529,391.51
Ground-to-Grid Factor = 0.9996709
LAT. 34°56'14"
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TRACT A-2A-2

TRACTS A-2A-1 & A-2A-2 SEVEN BAR RANCH FILED: SEPTEMBER 24, 1998 (98C-206)

JOB NO. 99-413A-03

Bohannan Huston

Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109

ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

SHEET 4 OF 7

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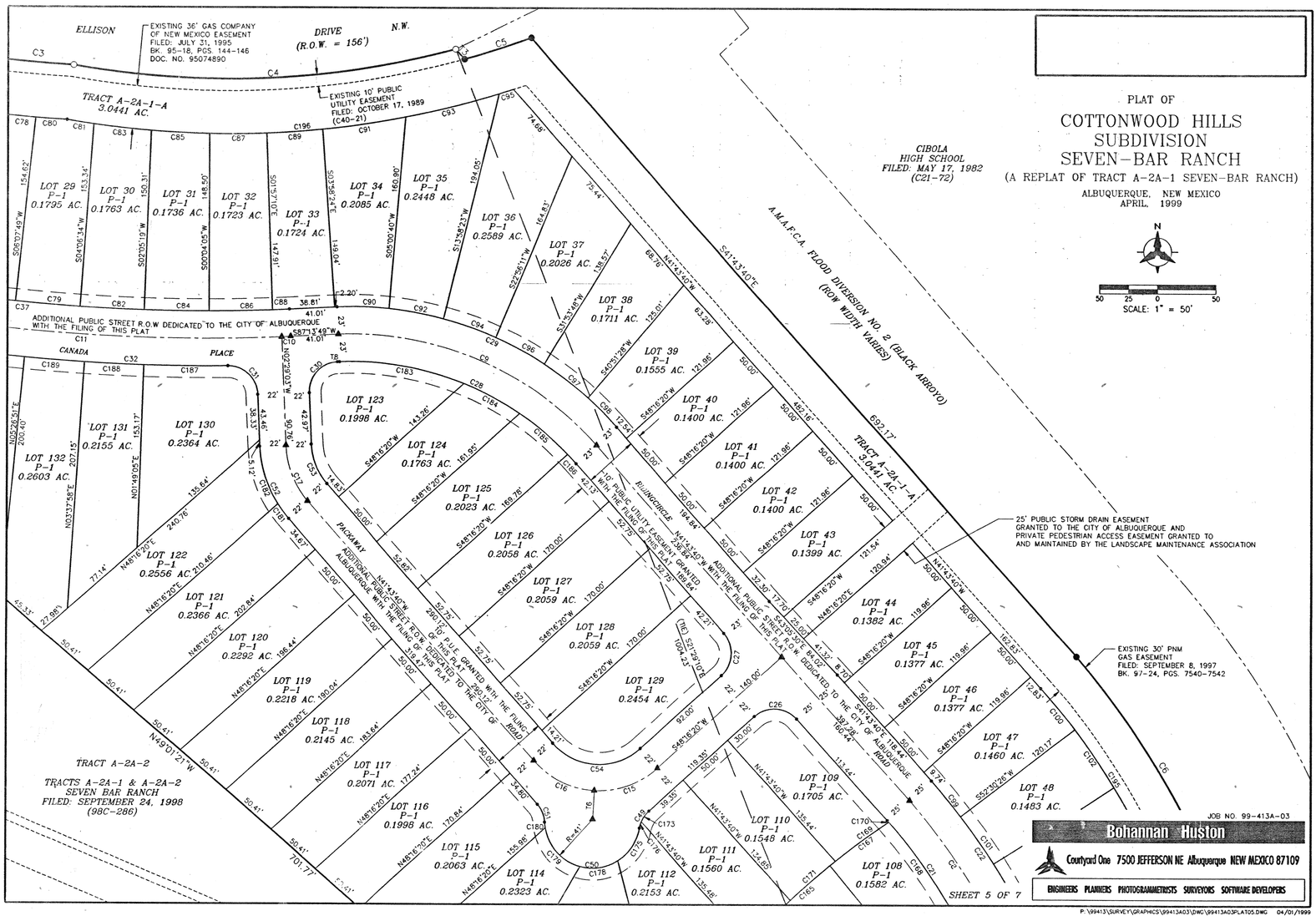
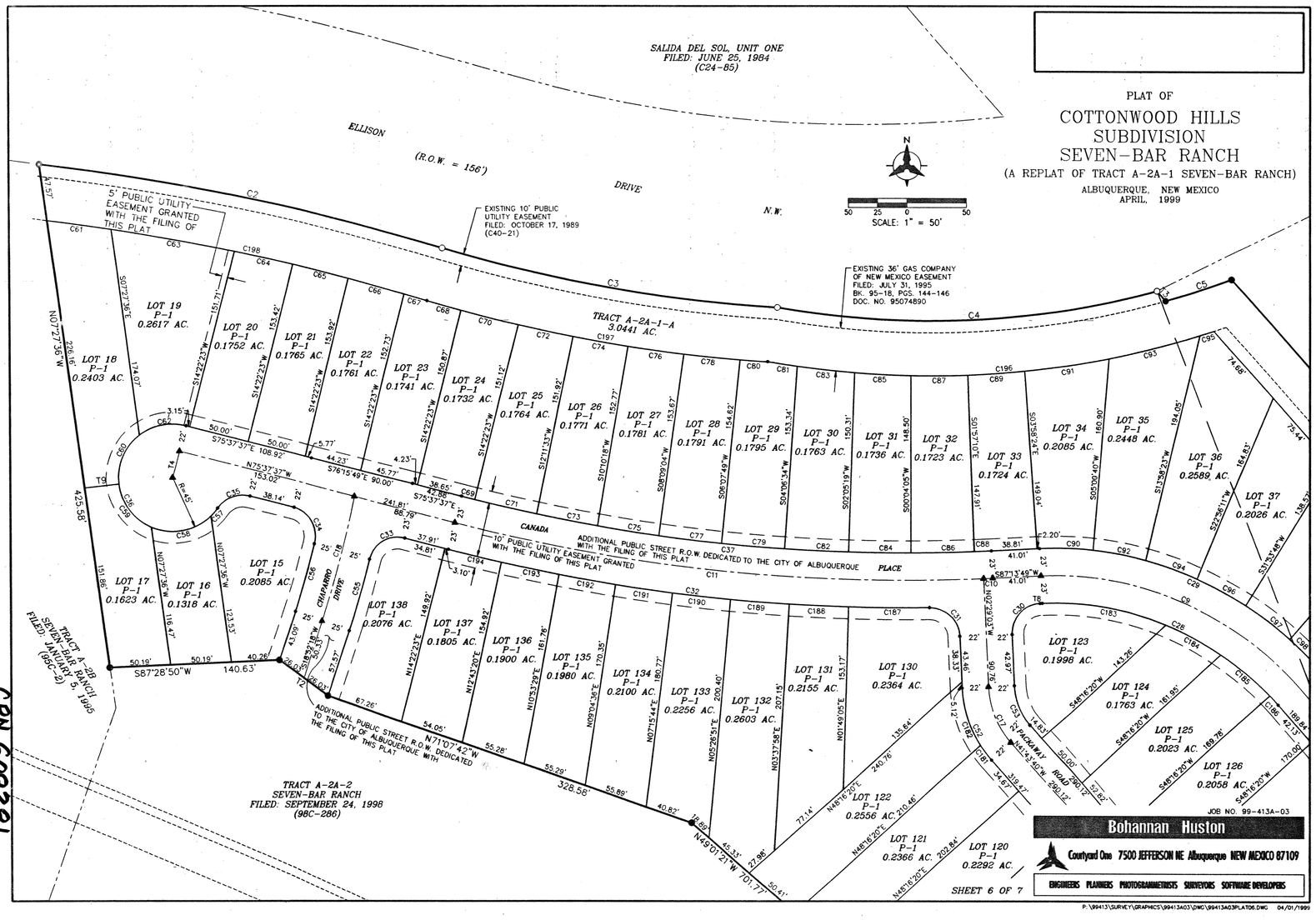
CPN 609281

SHEET 2B OF 24





CPN 609281
SHEET 2C OF 24

CURVE DATA

CURVE	RADIUS	LENGTH	TANGENT	CHORD	CHORD BEARING	DELTA
C1	884.00'	194.30'	97.54'	193.91'	N51°00'04"W	12°35'36"
C2	2132.70'	345.65'	173.21'	345.28'	S78°13'46"E	09°17'10"
C3	1278.00'	289.43'	145.34'	288.81'	S80°04'29"E	12°58'33"
C4	746.21'	324.64'	164.93'	322.09'	N87°28'24"E	24°55'37"
C5	756.21'	59.36'	29.70'	59.35'	N72°22'48"E	04°29'52"
C6	680.95'	1034.11'	646.32'	937.56'	S01°46'40"W	87°00'39"
C7	500.00'	601.92'	343.48'	566.22'	N10°47'05"E	68°58'28"
C8	500.00'	157.30'	79.31'	156.65'	N32°42'54"W	18°01'31"
C9	277.00'	246.77'	132.25'	238.69'	N67°14'56"W	51°02'31"
C10	1535.75'	7.66'	3.83'	7.66'	S87°22'23"W	00°17'09"
C11	1535.75'	451.83'	227.56'	450.21'	N84°03'20"W	16°51'25"
C12	75.00'	29.50'	14.94'	29.31'	N33°27'34"W	22°32'13"
C13	75.00'	72.37'	39.28'	69.60'	N05°27'12"E	55°17'18"
C14	330.00'	214.09'	110.51'	210.76'	N50°37'14"E	35°02'47"
C15	75.00'	58.90'	31.07'	57.40'	S70°46'20"W	45°00'00"
C16	75.00'	58.90'	31.07'	57.40'	N64°13'40"W	45°00'00"
C17	75.00'	51.37'	26.74'	50.37'	N22°06'21"W	39°14'37"
C18	872.00'	108.38'	54.26'	108.31'	S15°18'39"W	07°07'17"
C19	35.00'	49.75'	30.13'	45.67'	N85°59'32"E	81°26'24"
C20	475.00'	518.19'	288.27'	492.88'	N14°01'09"E	62°30'22"
C21	475.00'	100.74'	50.56'	100.55'	N35°39'08"W	12°09'04"
C22	525.00'	797.18'	498.21'	722.77'	S01°46'20"W	87°00'00"
C23	35.00'	54.96'	34.99'	49.49'	S00°17'02"W	89°58'36"
C24	884.00'	66.21'	33.12'	66.20'	N46°51'01"W	04°17'29"
C25	884.00'	66.22'	33.13'	66.20'	N51°08'31"W	04°17'31"
C26	25.00'	39.27'	25.00'	35.36'	N86°43'40"W	90°00'00"
C27	25.00'	39.27'	25.00'	35.36'	N03°16'20"E	90°00'00"
C28	254.00'	226.28'	121.27'	218.87'	N67°14'56"W	51°02'31"
C29	300.00'	267.26'	143.23'	258.51'	S67°14'56"E	51°02'31"
C30	25.00'	39.15'	24.88'	35.27'	S42°22'23"W	89°42'41"
C31	25.00'	38.53'	24.27'	34.83'	N46°38'02"W	88°17'58"
C32	1558.75'	412.34'	207.38'	411.14'	N83°12'19"W	15°09'23"
C33	25.00'	39.05'	24.78'	35.20'	S59°37'28"W	89°29'48"
C34	25.00'	39.49'	25.22'	35.51'	N30°22'47"W	90°29'41"
C35	25.00'	30.52'	17.49'	28.66'	S69°23'54"W	69°56'57"
C36	45.00'	196.31'		73.75'	N20°36'05"W	249°56'57"
C37	1512.75'	452.61'	228.01'	450.93'	S84°11'54"E	17°08'34"
C38	25.00'	39.27'	25.00'	35.36'	N00°16'20"E	90°00'00"
C39	25.00'	23.60'	12.76'	22.73'	N71°46'04"W	54°04'48"
C40	48.00'	130.96'	228.97'	93.96'	N20°38'51"W	156°19'14"
C41	25.00'	19.19'	10.09'	18.72'	N35°31'29"E	43°58'32"
C42	98.00'	33.46'	16.89'	33.29'	N23°19'02"E	19°33'37"
C43	373.00'	177.56'	90.50'	175.89'	N46°44'05"E	27°16'29"
C44	25.00'	39.25'	24.98'	35.34'	N15°23'52"E	89°56'56"
C45	25.00'	45.55'	32.22'	39.50'	N69°25'33"W	104°23'02"
C46	327.00'	144.31'	73.35'	143.14'	S45°44'24"W	25°17'05"
C47	52.00'	70.63'	41.98'	65.33'	S05°48'55"E	77°49'31"
C48	25.00'	34.33'	20.49'	31.69'	S84°03'50"E	78°40'19"
C49	25.00'	16.59'	8.61'	16.29'	S29°15'49"W	38°01'02"
C50	41.00'	118.81'	334.75'	81.39'	N86°43'40"W	166°02'05"
C51	25.00'	16.59'	8.61'	16.29'	N22°43'09"W	38°01'03"
C52	97.00'	66.44'	34.58'	65.15'	N22°06'21"W	39°14'37"
C53	53.00'	36.30'	18.90'	35.60'	S22°06'21"E	39°14'37"
C54	53.00'	83.25'	53.00'	74.95'	S86°43'40"E	90°00'00"
C55	897.00'	62.55'	31.29'	62.54'	S16°52'26"W	03°59'44"
C56	847.00'	59.19'	29.61'	59.18'	I16°52'11"E	04°00'14"
C57	45.00'	8.78'	4.40'	8.76'	N40°00'43"E	11°10'33"
C58	45.00'	53.10'	30.13'	50.07'	N79°24'22"E	67°36'46"
C59	45.00'	47.22'	26.04'	45.08'	S36°43'43"E	60°07'04"
C60	45.00'	46.50'	25.57'	44.46'	S22°56'01"W	59°12'23"
C61	2086.70'	52.39'	26.20'	52.39'	S81°49'27"E	01°26'19"
C62	45.00'	40.71'	21.87'	39.34'	S78°27'17"W	51°50'11"
C63	2086.70'	103.54'	51.78'	103.53'	S79°41'00"E	02°50'35"
C64	2086.70'	50.03'	25.02'	50.03'	S77°34'30"E	01°22'25"
C65	2086.70'	50.00'	25.00'	50.00'	S76°12'06"E	01°22'23"
C66	2086.70'	50.01'	25.00'	50.00'	S74°49'43"E	01°22'23"
C67	2086.70'	20.25'	10.12'	20.25'	S73°51'52"E	00°33'21"
C68	1324.00'	29.77'	14.89'	29.77'	S74°13'52"E	01°17'18"
C69	1512.75'	11.35'	5.67'	11.35'	N75°50'31"W	00°25'47"
C70	1324.00'	50.00'	25.00'	50.00'	S75°57'26"E	02°09'50"
C71	1512.75'	53.61'	26.81'	53.61'	N77°04'19"W	02°01'50"
C72	1324.00'	47.86'	23.93'	47.86'	S76°04'29"E	02°04'16"
C73	1512.75'	53.34'	26.67'	53.34'	N79°05'51"W	02°01'13"
C74	1324.00'	47.98'	23.99'	47.98'	S80°08'54"E	02°04'34"
C75	1512.75'	53.33'	26.67'	53.33'	N81°07'03"W	02°01'12"
C76	1324.00'	47.94'	23.97'	47.94'	S82°13'25"E	02°04'28"
C77	1512.75'	53.32'	26.66'	53.32'	N83°08'14"W	02°01'10"
C78	1324.00'	47.90'	23.95'	47.90'	S84°17'51"E	02°04'22"
C79	1512.75'	53.31'	26.66'	53.31'	N85°09'23"W	02°01'09"
C80	1324.00'	25.80'	12.90'	25.80'	S85°53'32"E	01°07'00"
C81	792.21'	22.13'	11.07'	22.13'	S81°03'13"E	01°36'02"
C82	1512.75'	53.30'	26.65'	53.30'	N87°10'32"W	02°01'08"
C83	792.21'	48.03'	24.02'	48.02'	S83°35'27"E	03°28'26"
C84	1512.75'	53.29'	26.65'	53.29'	N89°11'39"W	02°01'07"
C85	792.21'	48.05'	24.03'	48.05'	S87°03'55"E	03°28'31"
C86	1512.75'	53.28'	26.64'	53.28'	S88°47'15"W	02°01'05"
C87	792.21'	48.06'	24.04'	48.06'	N89°27'32"E	03°28'34"
C88	1512.75'	14.47'	7.24'	14.47'	S87°30'15"W	00°32'54"
C89	792.21'	48.06'	24.04'	48.06'	N85°58'58"E	0..°28'33"
C90	300.00'	44.96'	22.52'	44.91'	N88°28'37"W	08°35'09"
C91	792.21'	72.27'	36.16'	72.25'	N81°37'53"E	05°13'38"
C92	300.00'	47.06'	23.58'	47.01'	N79°41'24"W	08°59'17"
C93	792.21'	81.49'	40.78'	81.45'	N76°04'16"E	05°53'37"
C94	300.00'	46.95'	23.52'	46.90'	N70°42'44"W	08°58'02"
C95	792.21'	12.51'	6.26'	12.51'	N72°40'19"E	00°54'18"
C96	300.00'	46.85'	23.47'	46.80'	N61°45'17"W	08°56'52"
C97	300.00'	46.74'	23.42'	46.70'	N52°49'02"W	08°55'38"
C98	300.00'	34.69'	17.37'	34.67'	N45°02'27"W	06°37'33"
C99	525.00'	38.80'	19.41'	38.80'	N39°36'37"W	04°14'06"
C100	640.95'	44.59'	22.30'	44.58'	S39°44'06"E	03°59'08"
C101	525.00'	48.18'	24.11'	48.17'	N34°51'49"W	05°15'30"
C102	640.95'	59.22'	29.63'	59.20'	S35°05'42"E	05°17'38"
C103	525.00'	48.18'	24.11'	48.17'	N29°36'19"W	05°15'30"
C104	640.95'	59.24'	29.64'	59.22'	S29°48'01"E	05°17'45"
C105	525.00'	48.18'	24.11'	48.17'	N24°20'49"W	05°15'30"
C106	640.95'	59.26'	29.65'	59.24'	S24°30'13"E	05°17'50"
C107	525.00'	48.18'	24.11'	48.17'	N19°05'19"W	05°15'30"
C108	640.95'	59.27'	29.66'	59.25'	S19°12'21"E	05°17'54"
C109	525.00'	48.18'	24.11'	48.17'	N13°49'49"W	05°15'30"
C110	640.95'	59.28'	29.66'	59.26'	S13°54'25"E	05°17'57"
C111	525.00'	48.18'	24.11'	48.17'	N08°34'19"W	05°15'30"
C112	640.95'	59.29'	29.66'	59.27'	S08°36'27"E	05°17'59"
C113	525.00'	48.18'	24.11'	48.17'	N03°18'49"W	05°15'30"
C114	640.95'	59.29'	29.67'	59.27'	S03°18'27"E	05°17'59"
C115	525.00'	48.18'	24.11'	48.17'	N01°56'41"E	05°15'30"
C116	640.95'	59.29'	29.66'	59.26'	S01°59'32"W	05°17'59"
C117	525.00'	48.18'	24.11'	48.17'	N07°12'11"E	05°15'30"
C118	640.95'	59.28'	29.66'	59.26'	S07°17'29"W	05°17'57"
C119	525.00'	48.18'	24.11'	48.17'	N12°27'41"E	05°15'30"
C120	640.95'	59.27'	29.66'	59.25'	S12°35'24"W	05°17'53"
C121	525.00'	48.18'	24.11'	48.17'	N17°43'11"E	05°15'30"
C122	640.95'	59.25'	29.65'	59.23'	S17°53'15"W	05°17'49"
C123	525.00'	48.18'	24.11'	48.17'	N22°58'41"E	05°15'30"
C124	640.95'	59.24'	29.64'	59.22'	S23°11'01"W	05°17'43"
C125	525.00'	48.18'	24.11'	48.17'	N28°14'11"E	05°15'30"
C126	640.95'	59.22'	29.63'	59.20'	S28°28'41"W	05°17'36"
C127	525.00'	48.18'	24.11'	48.17'	N33°29'41"E	05°15'30"
C128	640.95'	59.19'	29.62'	59.17'	S33°46'14"W	05°17'29"
C129	525.00'	48.18'	24.11'	48.17'	N38°45'11"E	05°15'30"
C130	640.95'	59.16'	29.60'	59.14'	S39°03'38"W	05°17'20"
C131	525.00'	35.64'	17.83'	35.63'	N43°19'38"E	03°53'23"
C132	640.95'	40.03'	20.02'	40.02'	S43°29'39"W	03°34'42"
C133	365.00'	24.46'	12.24'	24.46'	S11°19'54"W	03°50'25"
C134	365.00'	162.34'	82.53'	161.00'	S03°19'48"E	25°28'59"
C135	327.00'	59.10'	29.63'	59.02'	N38°16'30"E	10°21'17"
C136	365.00'	58.25'	29.19'	58.19'	N11°29'59"W	09°08'37"
C137	327.00'	85.21'	42.85'	84.97'	N50°55'02"E	14°55'48"
C138	475.00'	85.44'	42.84'	85.33'	S12°04'51"E	10°18'22"
C139	365.00'	48.06'	24.07'	48.03'	N03°09'20"W	07°32'40"
C140	475.00'	62.55'	31.32'	62.50'	S03°09'20"E	07°32'40"
C141	365.00'	46.83'	23.45'	46.79'	N04°17'31"E	07°21'02"
C142	475.00'	60.94'	30.51'	60.90'	S04°17'31"W	07°21'02"
C143	365.00'	33.67'	16.84'	33.65'	N10°36'34"E	05°17'05"
C144	475.00'	60.94'	30.51'	60.90'	S11°38'33"W	07°21'02"
C145	475.00'	60.94'	30.51'	60.90'	S18°59'36"W	07°21'02"
C146	475.00'	60.94'	30.51'	60.90'	S26°20'38"W	07°21'02"
C147	475.00'	60.94'	30.51'	60.90'	S33°41'40"W	07°21'02"
C148	475.00'	60.94'	30.51'	60.90'	S41°02'43"W	07°21'02"
C149	475.00'	4.57'	2.29'	4.57'	S44°59'47"W	00°33'06"
C150	884.00'	40.82'	20.41'	40.82'	N54°36'39"W	02°38'44"
C151	884.00'	21.05'	10.52'	21.05'	N56°36'56"W	01°21'51"
C152	48.00'	35.21'	18.44'	34.43'	S77°47'27"E	42°02'03"
C153	48.00'	32.82'	17.08'	32.18'	S37°11'15"E	39°10'22"
C154	48.00'	21.96'	11.17'	21.77'	S04°29'48"E	26°12'32"
C155	98.00'	22.18'	11.14'	22.13'	S20°01'15"W	12°58'02"
C156	48.00'	40.97'	21.83'	39.74'	S33°03'37"W	48°54'18"
C157	98.00'	11.28'	5.64'	11.27'	S29°48'03"W	06°35'36"
C158	373.00'	2.71'	1.35'	2.71'	S33°18'19"W	00°24'57"
C159	697.11'	59.71'	29.87'	59.69'	N33°45'32"E	04°54'27"
C160	373.00'	48.68'	24.37'	48.65'	S37°15'08"W	07°28'39"
C161	697.11'	55.17'	27.60'	55.16'	N38°29'10"E	04°32'04"
C162	373.00'	50.32'	25.20'	50.28'	S44°51'21"W	07°43'47"
C163	697.11'	57.06'	28.54'	57.04'	N43°05'53"E	04°41'22"
C164	373.00'	50.30'	25.19'	50.26'	S52°35'02"W	07°43'35"
C165	697.11'	61.73'	30.91'	61.75'	N47°58'53"E	05°04'37"
C166	373.00'	25.55'	12.78'	25.55'	S58°24'35"W	03°55'31"
C167	697.11'	61.06'	30.55'	61.04'	N53°01'45"E	05°01'08"
C168	475.00'	98.93'	49.64'	98.75'	S35°32'35"E	11°55'57"
C169	697.11'	55.22'	27.62'	55.21'	S53°16'10"W	04°32'19"
C170	475.00'	1.81'	0.91'	1.81'	S41°37'07"E	00°13'07"
C171	697.11'	50.01'	25.02'	50.00'	S48°56'41"W	04°06'39"
C172	697.11'	50.10'	25.06'	50.09'	S44°49'49"W	04°07'04"
C173	25.00'	11.00'	5.59'	10.91'	N35°40'15"E	25°12'09"
C174	697.11'	111.04'	55.64'	110.92'	S38°12'30"W	09°07'35"
C175	41.00'	34.07'	18.09'	33.10'	N34°03'46"E	47°36'56"
C176	25.00'	5.59'	2.81'	5.58'	N16°39'44"E	12°48'52"
C177	697.11'	28.60'	14.30'	28.59'	S32°28'12"W	02°21'01"
C178	41.00'	33.74'	17.89'	32.80'	N81°26'51"E	47°09'14"
C179	41.00'	46.37'	26.00'	43.93'	S42°34'41"E	64°47'43"
C180	41.00'	4.63'	2.32'	4.63'	S06°56'43"E	06°28'12"

CURVE DATA cont.

CURVE	RADIUS	LENGTH	TANGENT	CHORD	CHORD BEARING	DELTA
C181	97.00'	15.40'	7.71'	15.38'	S37°10'51"E	09°05'38"
C182	97.00'	51.04'	26.13'	50.46'	S17°33'33"E	30°09'00"
C183	254.00'	108.67'	55.18'	107.85'	S80°30'46"E	24°30'51"
C184	254.00'	53.48'	26.84'	53.38'	S62°13'27"E	12°03'47"
C185	254.00'	53.50'	26.85'	53.40'	S50°09'32"E	12°04'03"
C186	254.00'	10.63'	5.31'	10.63'	S42°55'35"E	02°23'50"
C187	1558.75'	69.40'	34.71'	69.39'	S89°30'29"E	02°33'04"
C188	1558.75'	49.36'	24.68'	49.36'	S87°19'31"E	01°48'52"
C189	1558.75'	49.36'	24.68'	49.36'	S85°30'40"E	01°48'52"
C190	1558.75'	49.36'	24.68'	49.36'	S83°41'48"E	01°48'52"
C191	1558.75'	49.36'	24.68'	49.36'	S81°52'56"E	01°48'52"
C192	1558.75'	49.37'	24.68'	49.36'	S80°04'03"E	01°48'52"
C193	1558.75'	49.80'	24.90'	49.80'	S78°14'42"E	01°49'50"
C194	1558.75'	46.32'	23.16'	46.32'	S76°28'42"E	01°42'10"
C195	640.95'	973.36'	608.36'	882.49'	N01°46'40"E	87°00'39"
C196	792.21'	380.61'	194.05'	376.96'	S85°58'59"W	27°31'38"
C197	1324.00'	297.25'	149.25'	296.63'	N80°01'07"W	12°51'49"
C198	2086.70'	326.22'	163.44'	325.89'	N78°03'54"W	08°57'26"
C199	884.00'	61.87'	30.95'	61.85'	N55°17'34"W	04°00'36"

TANGENT DATA

TANGENT	BEARING	DISTANCE
T1	N44°43'00"W	29.15
T2	N54°59'09"W	52.05
T3	S41°43'40"E	11.18
T4	S14°22'23"W	23.00
T5	S67°48'33"W	11.80
T6	S03°16'20"W	24.00
T7	N44°42'16"W	4.84
T8	S83°13'49"W	1.91
T9	N83°19'49"E	27.96
T10	S36°07'28"E	33.48
T11	N36°07'28"W	15.32
T12	S56°36'00"W	0.71
T13	N36°07'28"W	18.16
T14	S71°58'58"E	135.58
T15	S27°40'27"E	101.83

PLAT OF

COTTONWOOD HILLS SUBDIVISION SEVEN-BAR RANCH

(A REPLAT OF TRACT A-2A-1 SEVEN-BAR RANCH)

ALBUQUERQUE, NEW MEXICO
APRIL, 1999

SHEET 7 OF 7

JOB NO. 99-413A-03

Bohannan Huston
Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109
ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

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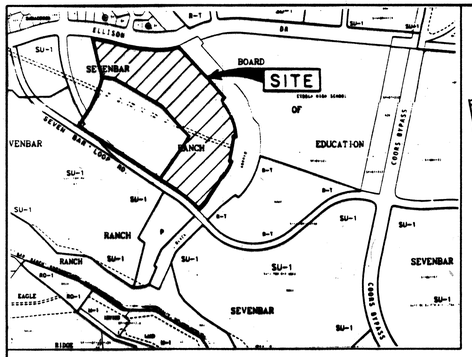
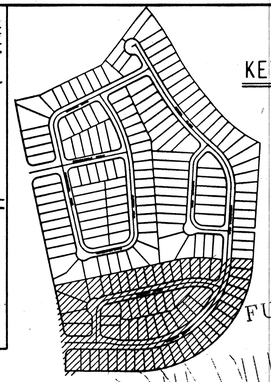
CPN 609281
SHEET 20 OF 24



VICINITY MAP

NOT TO SCALE
ZONE MAP NO. A-13&B-13



KEY MAP

DRAINAGE CERTIFICATION

I, JAMES R. TOPMILLER OF BOHANNAN HUSTON, N.M.P.E. # 9354, HEREBY CERTIFY THAT THE AS-BUILT DRAINAGE CONDITIONS OF THE SITE ARE IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED GRADING AND DRAINAGE PLAN, TO THE BEST OF MY KNOWLEDGE AND BELIEF. AS-BUILT ELEVATIONS ARE SHOWN ON THE PLAN WHERE THE ORIGINAL DESIGN ELEVATION HAS BEEN CROSSED OUT AND THE AS-BUILT ELEVATION ADDED. AS-BUILT ELEVATIONS WERE VERIFIED BY WALKER SURVEYING L.S. # - & ALDRICH SURVEYING 9401. THIS STATEMENT DOES NOT REPRESENT CERTIFICATION OF CONTRACTOR'S METHODS OR MATERIALS.

NAME

3/18/00
DATE

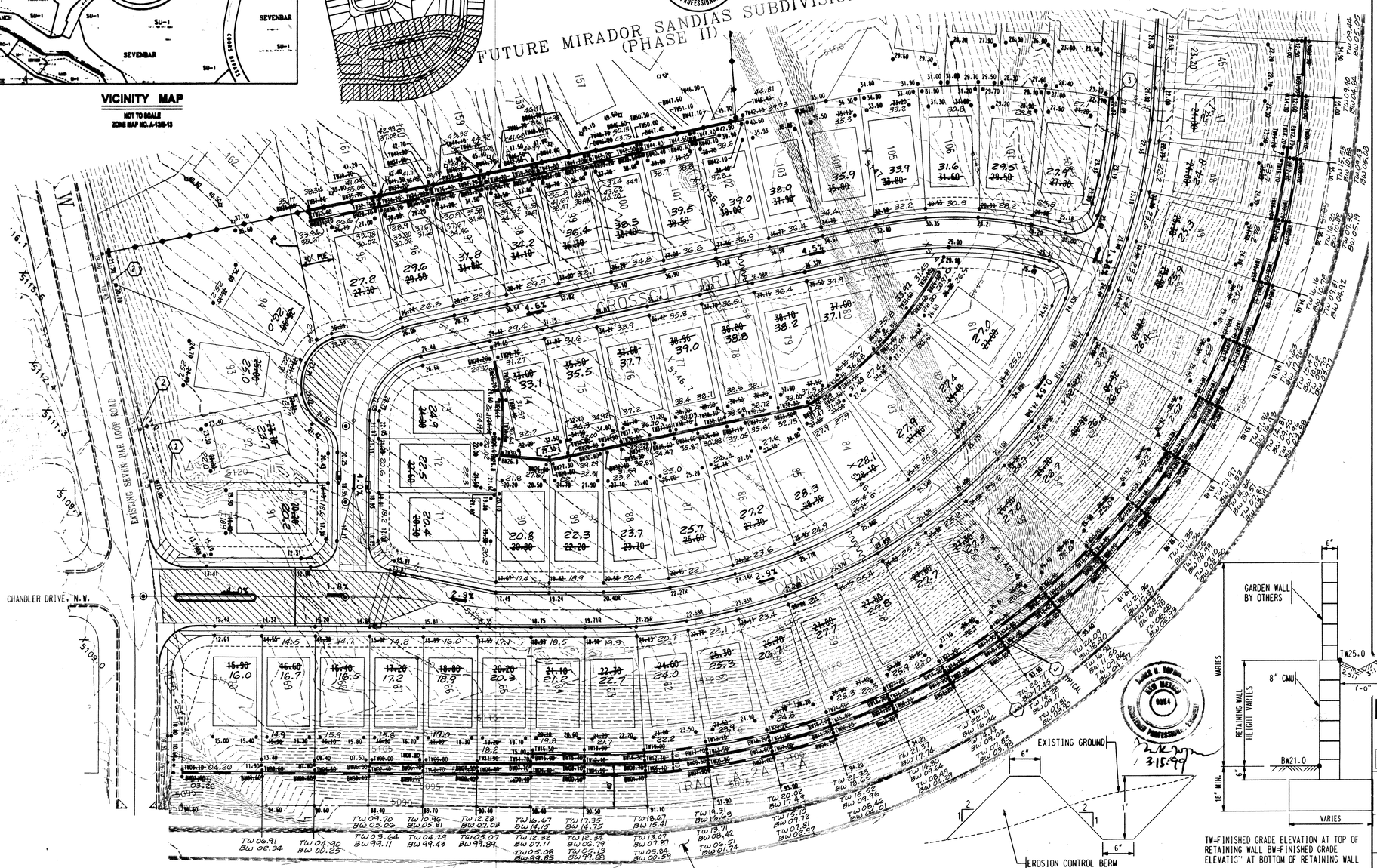
JAMES R. TOPMILLER NEW MEXICO 9354 REGISTERED PROFESSIONAL ENGINEER

NOTE:
AS-BUILT PAD & YARD ELEVATIONS VERIFIED BY WALKER SURVEYING.
AS-BUILT WALL ELEVATIONS VERIFIED BY ALDRICH SURVEYING.

"AS-BUILT" (HORIZONTAL AND VERTICAL LOCATION ONLY)

STEPHEN E. WALKER NEW MEXICO 9401 REGISTERED PROFESSIONAL SURVEYOR
3-11-99

SCALE: 1" = 50'
(HORIZ.)



GENERAL NOTES

1. CONTRACTOR MUST OBTAIN A TOPSOIL DISTURBANCE PERMIT FROM THE ENVIRONMENTAL HEALTH DIVISION PRIOR TO CONSTRUCTION.
2. THE CONTRACTOR IS TO REFER TO EARTHWORK SPECIFICATION AS NOTED IN THE SOILS REPORT.
3. THE CONTRACTOR SHALL CONFORM TO ALL CITY, COUNTY, STATE, AND FEDERAL DUST CONTROL MEASURES AND REQUIREMENTS AND WILL BE RESPONSIBLE FOR PREPARING AND OBTAINING ALL NECESSARY APPLICATIONS AND APPROVALS.
4. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE LOTS INTO PUBLIC RIGHT-OF-WAY. THIS CAN BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS AS PER THE DETAIL ON THIS SHEET AND WETTING THE SOIL TO KEEP IT FROM BLOWING AS PER THE EROSION CONTROL DETAIL ON THIS SHEET.
5. ALL STREET SPOT ELEVATIONS ARE TO TOP OF CURB UNLESS OTHERWISE NOTED. VALLEY GUTTER ELEVATIONS ARE SHOWN AT FLOWLINE ELEVATION.

SPOT ELEVATIONS CONTAINING AN "R" DENOTES TOP OF MOUNTABLE ROLL TYPE CURB. i.e. xx.xxR

LEGAL DESCRIPTION

A PORTION OF TRACT A-2A SEVEN BAR SOUTH

KEYED NOTES:

1. CONRETE MASSONARY UNIT FENCE REQUIRED ALONG REAR PROPERTY LINE FOR LOTS 18 THROUGH 70 AND ALONG SEVEN BAR LOOP ROAD. STANDARD C.M.U. = 6" X 8" X 16" GROUT REINFORCEDCELLS ONLY.
2. FENCING CONTRACTOR IS TO PROVIDE ONE TURNED OUT BLOCK IN LOWEST CORNER OF LOT JUST ABOVE GROUND SURFACE TO PROVIDE BACKYARD DRAINAGE TO SEVEN BAR LOOP ROAD RIGHT OF WAY FOR LOTS 91 THROUGH 94.
3. FENCING CONTRACTOR IS TO PROVIDE ONE TURNED OUT BLOCK IN LOWEST CORNER OF LOT JUST ABOVE GROUND SURFACE TO PROVIDE BACKYARD DRAINAGE TO THE ADJACENT STREET ROW FOR LOTS 18 THROUGH 70 AND LOT 108.

LEGEND

PROPOSED SPOT ELEVATION	● 5235.25
TOP OF ROLL CURB ELEVATION	● 5235.25R
EXISTING SPOT ELEVATION	● 5235.25
FUTURE SPOT ELEVATION	◇ 5235.25
PROPOSED RETAINING WALL	
EXISTING CONTOUR	
DIRECTION OF FLOW	
EXISTING STORM DRAIN LINE	SD
EXISTING STORM DRAIN MANHOLE	
PROPOSED STORM DRAIN INLET	
PROPOSED STORM DRAIN LINE	
PROPOSED STORM DRAIN MANHOLE	
PROPOSED WATER BLOCK	
PROPOSED BACKYARD POND	
EXISTING SAS MANHOLE	
PHASING BOUNDARY	
AS-BUILT ELEVATION	30.3 / ~~30.55~~

EROSION CONTROL PLAN

NO SCALE

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

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

TYPICAL RETAINING WALL NOMENCLATURE

NO SCALE

(RETAINING HEIGHT IS TAKEN TO BE DIFFERENCE IN FINISHED GRADES ON LEFT AND RIGHT SIDE OF WALL.)

JAMES R. TOPMILLER NEW MEXICO 9354 REGISTERED PROFESSIONAL ENGINEER
3-15-99

C.O.A. ROUGH GRADING APPROVAL ± 1'

BY DATE

AMAFCA GRADING APPROVAL

BY 3-11-99 DATE

FOR INFORMATION ONLY

SEAL	SURVEY INFORMATION	BENCH MARKS	AS-BUILT INFORMATION
	FIELD NOTES	ACS ALUMINUM TABLET STAMPED "4-B13" (NAD 1927)	CONTRACTOR SALLS
	NO. / BY / DATE	N.M. STATE PLANE COORD. (CENTRAL ZONE)	STAKED BY WALKER
		I=857,489.27 Y=1,525,194.55 GRD=9810 FACTOR=0.9996705	INSPECTOR ACCEPTANCE BY MGA DATE 4/6/99
		DELTA ALPHA = 00°14'25" ELEVATION 5109.51'	AS-BUILT INFORMATION BY WALKER DATE 3-9-99
			CERTIFICATION CHECKED BY DATE
		USGS BRASS TABLET STAMPED "BLACK 2 1997" (NAD 1927)	MICRO-FILM INFORMATION
		N.M. STATE PLANE COORDINATES (CENTRAL ZONE)	RECORDED BY DATE
		X = 372,820.43 Y = 1,530,241.52 GROUND TO GRID FACTOR 0.999669164, DELTA ALPHA=00°14'43" ELEVATION 5213.93'	NO.

ENGINEER'S SEAL

JOHN C. ALEXANDER NEW MEXICO 13478 REGISTERED PROFESSIONAL ENGINEER
2-2-99

NO.	DATE	REVISIONS	BY
		DESIGN	
			DATE 01/99
			DATE 01/99
			DATE 01/99

DESIGNED BY JCA/CMC/RB
DRAWN BY CMC/GGC
CHECKED BY JCA

Bohannan ▲ Huston

Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109

ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

COTTONWOOD HILLS
GRADING AND DRAINAGE PLAN

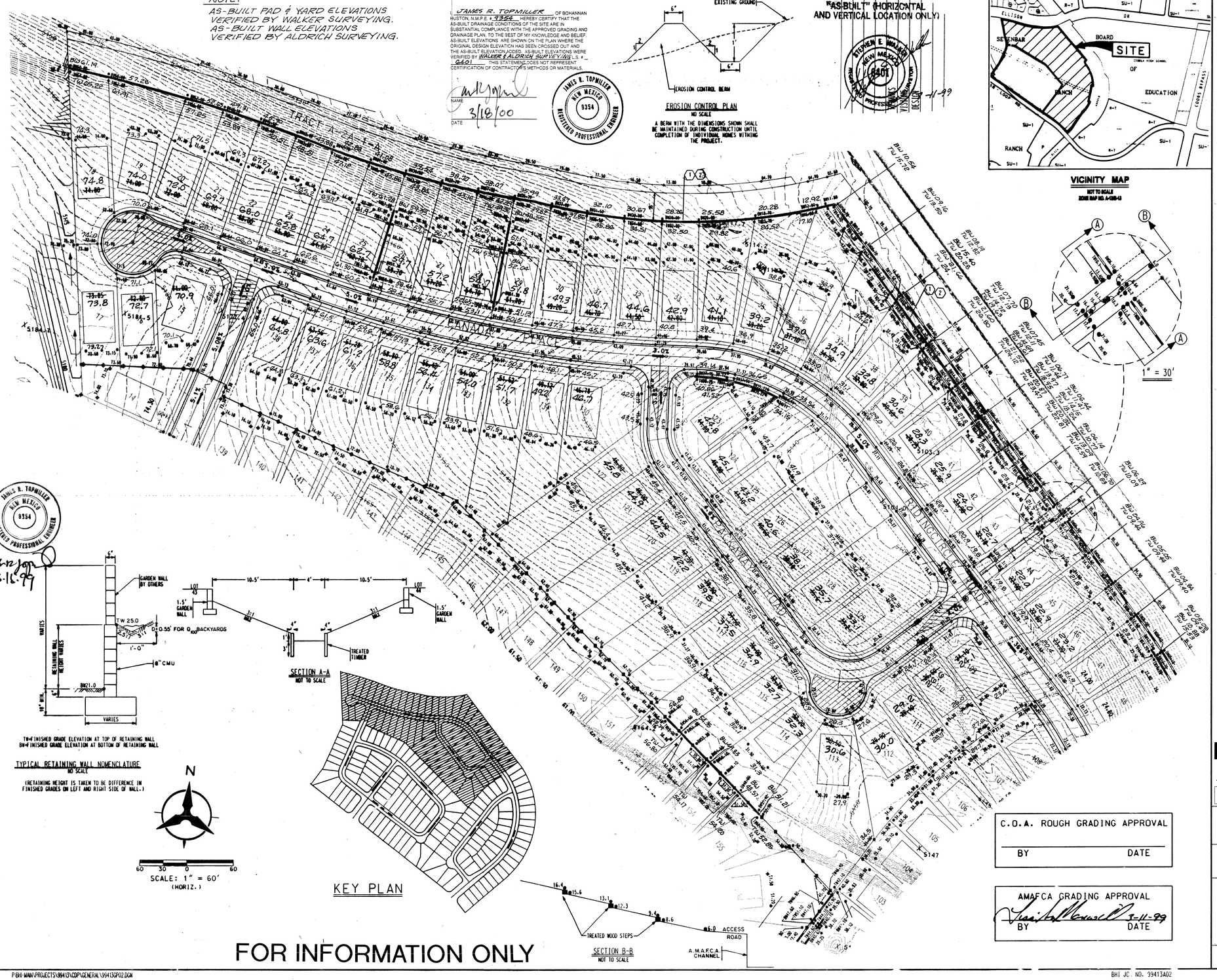
DEVELOPEMENT REVIEW BOARD	DRB APPROVAL DATE	LAST DESIGN UPDATE
Approved @ DRB		
609281		

ZONE MAP NO. A-13/B-13 | SHEET 3 OF 24

P:\BHI-MAIN\PROJECTS\99413\CDP\GENERAL\99413GP01

BHI JOB NO. 99413402

NOTE:
AS-BUILT PAD & YARD ELEVATIONS VERIFIED BY WALKER SURVEYING.
AS-BUILT WALL ELEVATIONS VERIFIED BY ALDRICH SURVEYING.



1" = 30'

DRAINAGE CERTIFICATION

I, JAMES R. TOPMILLER OF BOHANNAN HUSTON, N.M.P.E. # 9354, HEREBY CERTIFY THAT THE AS-BUILT DRAINAGE CONDITIONS OF THE SITE ARE IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED GRADING AND DRAINAGE PLAN. TO THE BEST OF MY KNOWLEDGE AND BELIEF, AS-BUILT ELEVATIONS ARE SHOWN ON THE PLAN WHERE THE ORIGINAL DESIGN ELEVATION HAS BEEN CROSSED OUT AND THE AS-BUILT ELEVATION ADDED. AS-BUILT ELEVATIONS WERE VERIFIED BY WALKER & ALDRICH SURVEYING, L.S. # 6401. THIS STATEMENT DOES NOT REPRESENT CERTIFICATION OF CONTRACTOR'S METHODS OR MATERIALS.

NAME

3/18/00
DATE

JAMES R. TOPMILLER NEW MEXICO 9354 REGISTERED PROFESSIONAL ENGINEER

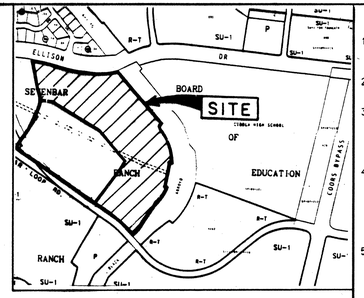
EROSION CONTROL PLAN
NO SCALE

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

"AS-BUILT" (HORIZONTAL AND VERTICAL LOCATION ONLY)

STEVEN E. WALKER NEW MEXICO 6401 PROFESSIONAL SURVEYOR

11-11-99



VICINITY MAP
NOT TO SCALE
ZONE MAP NO. A-13/B-13

GENERAL NOTES

1. CONTRACTOR MUST OBTAIN A TOPSOIL DISTURBANCE PERMIT FROM THE ENVIRONMENTAL HEALTH DIVISION PRIOR TO CONSTRUCTION.
2. THE CONTRACTOR IS TO REFER TO EARTHWORK SPECIFICATION AS NOTED IN THE SOILS REPORT.
3. THE CONTRACTOR SHALL CONFORM TO ALL CITY, COUNTY, STATE, AND FEDERAL DUST CONTROL MEASURES AND REQUIREMENTS AND WILL BE RESPONSIBLE FOR PREPARING AND OBTAINING ALL NECESSARY APPLICATIONS AND APPROVALS.
4. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE LOTS INTO PUBLIC RIGHT-OF-WAY. THIS CAN BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS AS PER THE DETAIL ON THIS SHEET AND WETTING THE SOIL TO KEEP IT FROM BLOWING AS PER THE EROSION CONTROL DETAIL ON THIS SHEET.
5. ALL STREET SPOT ELEVATIONS ARE TO TOP OF CURB UNLESS OTHERWISE NOTED. VALLEY GUTTER ELEVATIONS ARE SHOWN AT FLOWLINE ELEVATION.

LEGAL DESCRIPTION
A PORTION OF TRACT A-2A SEVEN BAR SOUTH

KEYED NOTES:

1. CONRETE MASSONARY UNIT FENCE REQUIRED ALONG THE REAR PROPERTY LINE FOR LOTS 18 THROUGH 70 STANDARD C.M.U. = 6" X 8" X 16" GROUT REINFORCED CELLS ONLY.
2. FENCING CONTRACTOR IS TO PROVIDE ONE TURNED OUT BLOCK IN LOWEST CORNER OF LOT JUST ABOVE GROUND SURFACE TO PROVIDE BACKYARD DRAINAGE TO THE ADJACENT TRACT FOR LOTS 18 THROUGH 70.

LEGEND

PROPOSED SPOT ELEVATION	● 5235.25
EXISTING SPOT ELEVATION	● 5235.25
FUTURE SPOT ELEVATION	◇ 5235.25
PROPOSED RETAINING WALL	
EXISTING CONTOUR	
DIRECTION OF FLOW	
EXISTING STORM DRAIN LINE	SD
EXISTING STORM DRAIN MANHOLE	
PROPOSED STORM DRAIN INLET	
PROPOSED STORM DRAIN LINE	
PROPOSED STORM DRAIN MANHOLE	
PROPOSED WATER BLOCK	
PROPOSED BACKYARD POND	
EXISTING SAS MANHOLE	
PHASING BOUNDARY	
AS-BUILT ELEVATION	22.88 / ~~23.90~~

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

TYPICAL RETAINING WALL NOMENCLATURE
NO SCALE

(RETAINING HEIGHT IS TAKEN TO BE DIFFERENCE IN FINISHED GRADES ON LEFT AND RIGHT SIDE OF WALL.)

SECTION A-A
NOT TO SCALE

KEY PLAN

SECTION B-B
NOT TO SCALE

FOR INFORMATION ONLY

C.O.A. ROUGH GRADING APPROVAL

BY DATE

AMAFCA GRADING APPROVAL

3-11-99
BY DATE

JAMES R. TOPMILLER NEW MEXICO 9354 REGISTERED PROFESSIONAL ENGINEER

3-16-99

AS-BUILT INFORMATION	
CONTRACTOR'S STAKE BY	SALLS
INSPECTOR'S FIELD CHANGES BY	WALKER DATE 11/98
VERIFICATION BY FIELD ENGINEER	WALKER DATE 99
AS-BUILT CORRECTED BY	DATE
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	
X = 372,920.43 Y = 1,530,241.52 GROUND TO GRID FACTOR 0.999693164, DELTA ALPHA=00°14'43" ELEVATION 5213.93'	

BENCH MARKS	
ACS ALUMINUM TABLET STAMPED "4-B13" (NAVD 1927)	
N.M. STATE PLANE COORD. (CENTRAL ZONE)	
X=357,489.27 Y=1,525,194.55 GRID-GRID FACTOR=0.9996705	
DELTA ALPHA = 00°14'25" ELEVATION 5169.51'	
BRASS BRASS TABLET STAMPED "BLACK 2 1997" (NAVD 1927)	
N.M. STATE PLANE COORDINATES (CENTRAL ZONE)	
X = 372,920.43 Y = 1,530,241.52 GROUND TO GRID FACTOR 0.999693164, DELTA ALPHA=00°14'43" ELEVATION 5213.93'	

SURVEY INFORMATION		
NO.	BY	DATE

ENGINEER'S SEAL: JOHN C. ALEXANDER NEW MEXICO 13476 PROFESSIONAL ENGINEER 2-2-99

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY JCA/CMC DATE 01/99
DRAWN BY CMC/GGG DATE 01/99
CHECKED BY JCA DATE 01/99

Bohannan ▲ Huston
Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109
ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

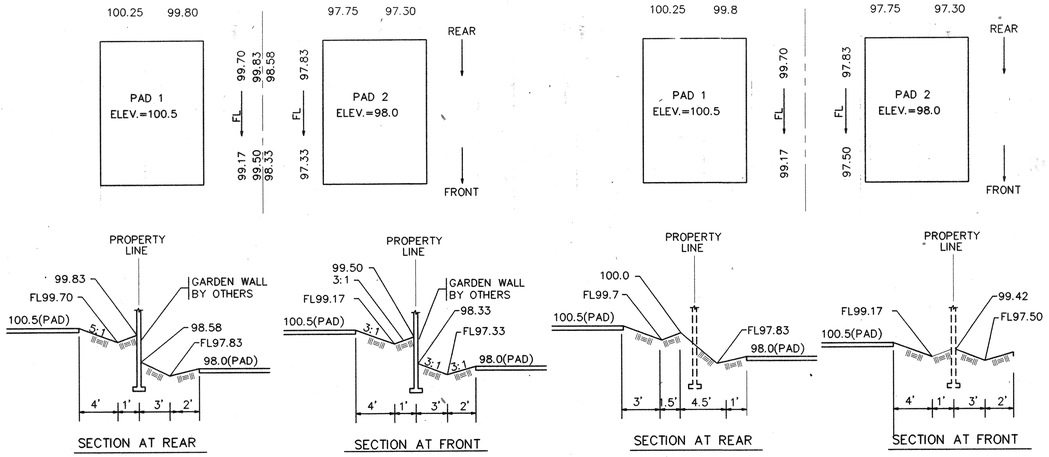
COTTONWOOD HILLS
GRADING AND DRAINAGE PLAN

DEVELOPEMENT REVIEW BOARD	DRB APPROVAL DATE	LAST DESIGN UPDATE
Approved @ DRB		

DRB# 609281 ZONE MAP NO. A-13/B-13 SHEET 4 OF 24

P:\BHI-MAIN\PROJECTS\99413\CDP\GENERAL\99413GR02.DGN

BHI JC. NO. 99413A02



SIDE LOT GRADING
(AFTER GARDEN WALL INSTALLATION)

(TYPICAL FOR 5' SIDE YARDS WITH 2.5' MAXIMUM PAD DIFFERENCE)

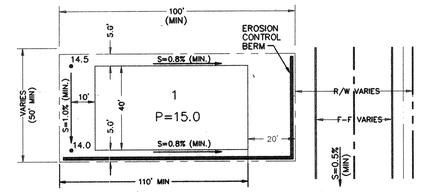
NOT-TO-SCALE

SIDE LOT GRADING
(BEFORE GARDEN WALL INSTALLATION)

(TYPICAL FOR 5' SIDE YARDS WITH 2.5' PAD DIFFERENCE)

NOT-TO-SCALE

TYPICAL LOT GRADING DETAILS



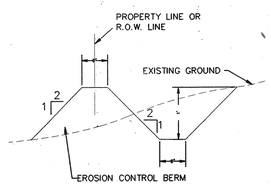
TYPICAL LOT GRADING PLAN

SCALE: 1"=30'

(SEE SHEET 1 FOR REQUIRED SPOT ELEVATIONS)

GENERAL NOTES

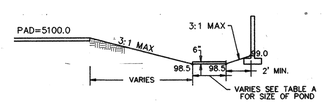
1. THE CONTRACTOR MUST OBTAIN A TOPSOIL DISTRIBUTION PERMIT FROM THE ENVIRONMENTAL HEALTH DIVISION PRIOR TO CONSTRUCTION.
2. THE CONTRACTOR IS TO REFER TO EARTHWORK SPECIFICATIONS AS NOTED IN SOILS REPORT PREPARED BY VINEYARD AND ASSOCIATES DATED JUNE 14, 1995.
3. THE CONTRACTOR SHALL CONFORM TO ALL CITY, COUNTY, STATE AND FEDERAL DUST CONTROL MEASURES AND REQUIREMENTS AND WILL BE RESPONSIBLE FOR PREPARING AND OBTAINING ALL NECESSARY APPLICATIONS AND APPROVALS.
4. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE LOTS INTO PUBLIC RIGHT-OF-WAY. THIS CAN BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS AS PER DETAIL THIS SHEET, AND WETTING THE SOIL TO KEEP IT FROM BLOWING.



TYPICAL EROSION CONTROL SECTION

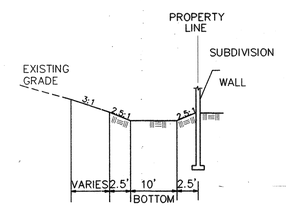
NO SCALE

A BERM WITH THE DIMENSIONS SHOWN SHALL BE MAINTAINED DURING CONSTRUCTION UNTIL COMPLETION OF INDIVIDUAL HOMES WITHIN THE PROJECT. SEE TYPICAL LOT GRADING PLAN THIS SHEET FOR LOCATION



SECTION A-A

NOT-TO-SCALE

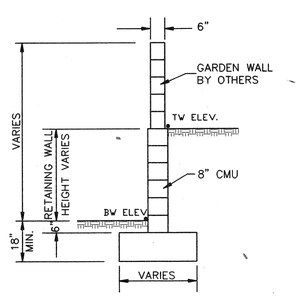


WEST BOUNDARY SWALES

SECTION E-E

APPROVED FOR OFFSITE GRADING PER THIS PLAN

SIGNED DATE

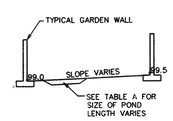


TW = FINISHED GRADE ELEVATION AT TOP OF RETAINING WALL
BW = FINISHED GRADE ELEVATION AT BOTTOM OF RETAINING WALL

TYPICAL RETAINING WALL NOMENCLATURE

NO SCALE

(RETAINAGE HEIGHT IS TAKEN TO BE DIFFERENCE IN FINISHED GRADES ON LEFT AND RIGHT SIDE OF WALL)



SECTION B-B

NOT-TO-SCALE

LOT # UNIT B-9	BACKYARD AREA (SQ. FT.)	REQUIRED V(100) (CU. FT.)	POND DIMENSION (FT.) (AVG. WIDTHS) L	W1	W2	D	POND VOLUME (CU.FT.)	C	I	Q(100) cfs
,74	1755	126	21	5.8	9.4	0.8	128	0.52	4.7	0.10
153	1558.8	113	22	6.1	6.7	0.8	113	0.52	4.7	0.09
154	1710	123	26	7.6	4.2	0.8	123	0.52	4.7	0.10
155	3660	258	23	14.1	13.9	0.8	258	0.52	4.7	0.21
156	7610.9	531	35	19.8	23.7	0.7	531	0.52	4.7	0.43
174	1585.3	115	23	7.3	7.5	0.7	117	0.52	4.7	0.09
175	1585.3	115	21	7.6	8.2	0.7	115	0.52	4.7	0.09

AS-BUILT INFORMATION
CONTRACTOR SALS DATE 99
WORK STAKED BY WALKER DATE
WORK VERIFIED BY SAGA DATE 11/99
ACCEPTANCE BY DATE 99
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
JAMES K. TOFMILLER NEW MEXICO 9354 REGISTERED PROFESSIONAL ENGINEER
3-10-99

No.	Date	REMARKS	By
		REVISIONS	
		DESIGN	

Designed By: JCA DATE: 2/99
Drawn By: NEF DATE: 2/99
Checked By: JCA DATE: 2/99

Bohannan ▲ Huston
Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109
ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

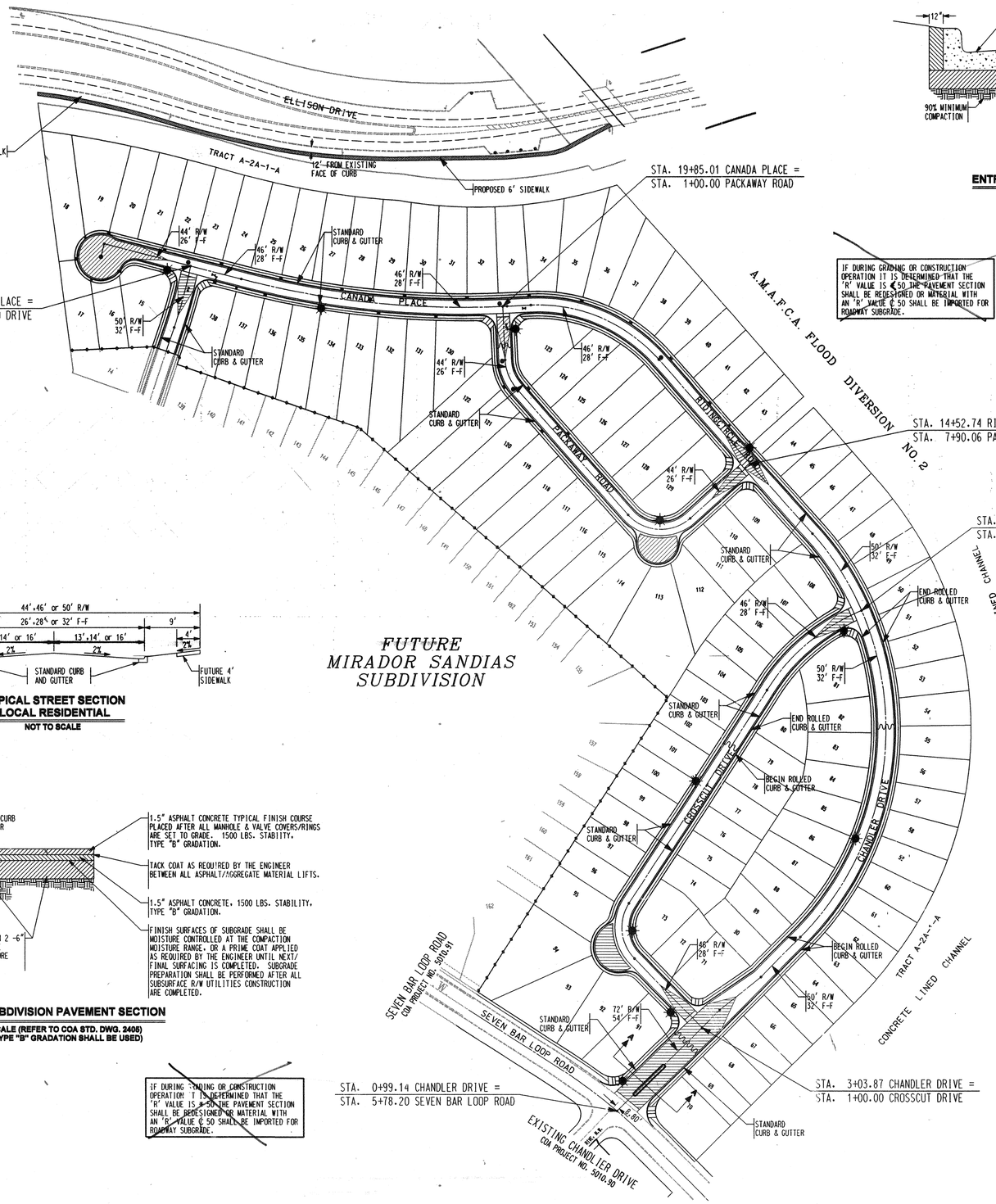
SEVEN BAR, CORTTONWOOD HILLS\
OFFSITE GRADING AND DETAILS

Design Review Committee: APPROVED MAY 1999 MAY - 3 1999 DESIGN REVIEW COMMITTEE
City Engineer Approval
Last Design Update | Mo./Day/Yr. | Mo./Day/Yr.

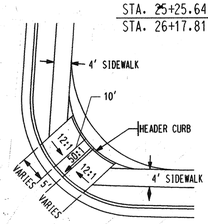
City Project No. 6092.81 ~~60.081~~ | Zone Map No. A-13\B-13 | Sheet 5 Of 24

P:\99413\CDP\GENERAL\99413GDETAILS.DWG

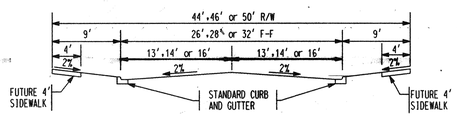
BHI JOB NO. 99413



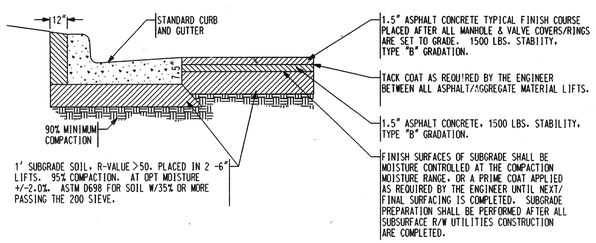
IF DURING GRADING OR CONSTRUCTION OPERATION IT IS DETERMINED THAT THE 'R' VALUE IS < 50 THE PAVEMENT SECTION SHALL BE REDESIGNED OR MATERIAL WITH AN 'R' VALUE ≥ 50 SHALL BE IMPORTED FOR ROADWAY SUBGRADE.



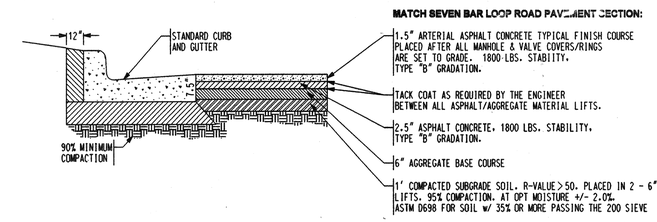
WHEEL CHAIR RAMP DETAIL
SEE MODIFIED STD. DWG. 2441 CASE II
NOT TO SCALE



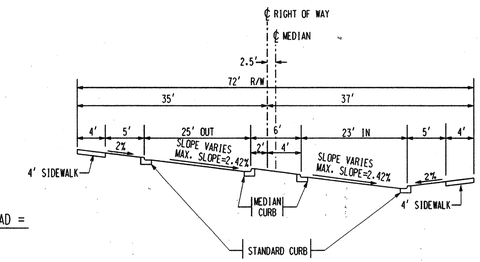
TYPICAL STREET SECTION
LOCAL RESIDENTIAL
NOT TO SCALE



TYPICAL SUBDIVISION PAVEMENT SECTION
NOT TO SCALE (REFER TO COA STD. DWG. 2405)
(EXCEPT TYPE "B" GRADATION SHALL BE USED)



ENTRANCE TO SUBDIVISION PAVEMENT SECTION A-A
NOT TO SCALE
AS DESIGNATED FOR SEVEN BAR LOOP ROAD
C.O.A .P.N 5010.91



ENTRANCE TO SUBDIVISION STREET SECTION A-A
NO SCALE

SOIL NOT HAVING THE MINIMUM R-VALUE OF 50, SHALL BE REMOVED TO A DEPTH OF 2 FEET AND REPLACED, BY THE CONTRACTOR, WITH SUITABLE MATERIAL OR A PAVEMENT SECTION SHALL BE DESIGNED BY CONSULTANT ACCOMODATING THE EXISTING R-VALUE PER C.O.A STANDARD SPECIFICATIONS.

LEGEND

- PROPOSED CURB AND GUTTER
- EXISTING CURB AND GUTTER
- FUTURE CURB AND GUTTER
- PROPOSED SANITARY SEWER MANHOLE
- PROPOSED FIRE HYDRANT
- PROPOSED GATE VALVE
- EXISTING GATE VALVE
- PROPOSED STREET LIGHT
- PROPOSED WATER BLOCK
- EXISTING STREET LIGHT
- PHASING BOUNDARY
- PROPOSED 6' SIDEWALK

N

SCALE: 1" = 100'
(HORIZ.)

IF DURING GRADING OR CONSTRUCTION OPERATION IT IS DETERMINED THAT THE 'R' VALUE IS ≥ 50 THE PAVEMENT SECTION SHALL BE REDESIGNED OR MATERIAL WITH AN 'R' VALUE ≥ 50 SHALL BE IMPORTED FOR ROADWAY SUBGRADE.

AS-BUILT INFORMATION

CONTRACTOR: SUNDANCE
WORK STAKED BY: ALS, INC DATE 11/99
ACCEPTANCE BY: MGA DATE 11/99
FIELD VERIFICATION BY: ALS, INC DATE 11/99
DRAWINGS CORRECTED BY: ALS, INC DATE 11/99
MICRO-FILM INFORMATION
RECORDED BY DATE
NO. DATE

BENCH MARKS

ACS ALUMINUM TABLET STAMPED "4-B13" (NAD 1927)
N.M. STATE PLANE COORD. (CENTRAL ZONE)
X=351,489.21 Y=1,525,104.55 GRID-GRID FACTOR=0.9996105
DELTA ALPHA = 00°14'25" ELEVATION 5169.51'
USGS BRASS TABLET STAMPED "BLACK 2 1997" (NAD 1927)
N.M. STATE PLANE COORDINATES (CENTRAL ZONE)
X = 372,920.43 Y = 1,530,241.52 GROUND TO GRID FACTOR
0.99969164. DELTA ALPHA=00°14'43" ELEVATION 5213.93'

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
JAMES R. TOPMILLER
NEW MEXICO
9354
REGISTERED PROFESSIONAL ENGINEER
3/10/99

NO.	DATE	REVISIONS	BY
		REMARKS	

DESIGNED BY CMG/JCA DATE 01/99
DRAWN BY GGG/PEG DATE 01/99
CHECKED BY JCA DATE 01/99

Bohannan ▲ Huston
Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109
ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

COTTONWOOD HILLS
OVERALL PAVING PLAN

DESIGN REVIEW COMMITTEE
APPROVED MAY 1999 MAY - 3 1999 DESIGN REVIEW COMMITTEE

CITY ENGINEER APPROVAL

LAST DESIGN UPDATE

CITY PROJECT NO. 6092.81
ZONE MAP NO. A 13/B-13
SHEET 6 OF 24

P:\A01_BHIMAIN*994130*CDP*GENERAL*
994130VLP7V01.DGN

BHI JOB NO. 99-A02

TANGENT DATA		
NUMBER	BEARING	DISTANCE
T1	N45°16'20"E	204.75'
T2	N45°16'20"E	43.00'
T3	N52°14'25"E	90.67'
T4	N45°16'20"E	12.46'

Ⓐ FL	
1	11.64
2	11.39
3	11.13

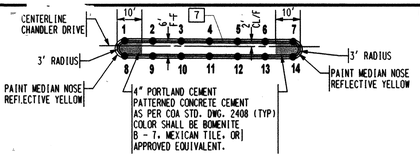
D = 80°48'05"
L = 49.36'
R = 35.00'

Ⓒ FL	
1	16.31
2	16.11
3	15.92

D = 90°00'00"
L = 39.27'
R = 25.00'

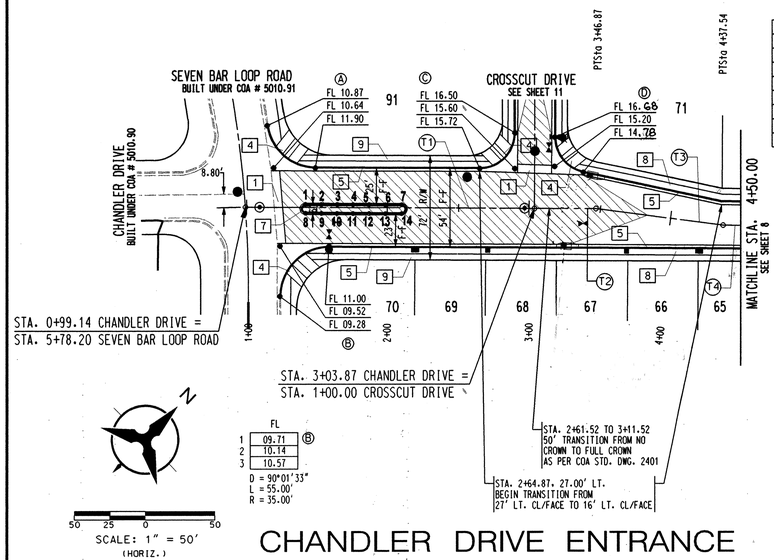
Ⓓ FL	
1	15.13
2	15.46
3	15.83

D = 78°40'19"
L = 34.33'
R = 25.00'



MEDIAN CURB DETAIL
(NOT TO SCALE)

MEDIAN CURB DATA					
PT	FL	STATION & OFFSET	PT	FL	STATION & OFFSET
1	11.02	1+41.82, 2.00' LT.	8	10.87	1+41.82, 4.00' RT.
2	11.47	1+53.17, 2.00' LT.	9	11.32	1+53.17, 4.00' RT.
3	11.92	1+64.51, 2.00' LT.	10	11.77	1+64.51, 4.00' RT.
4	12.48	1+75.86, 2.00' LT.	11	12.33	1+75.86, 4.00' RT.
5	13.09	1+87.21, 2.00' LT.	12	12.94	1+87.21, 4.00' RT.
6	13.62	1+98.56, 2.00' LT.	13	13.47	1+98.56, 4.00' RT.
7	14.07	2+09.90, 2.00' LT.	14	13.92	2+09.90, 4.00' RT.



Ⓑ FL	
1	09.71
2	10.14
3	10.57

D = 90°01'33"
L = 55.00'
R = 35.00'

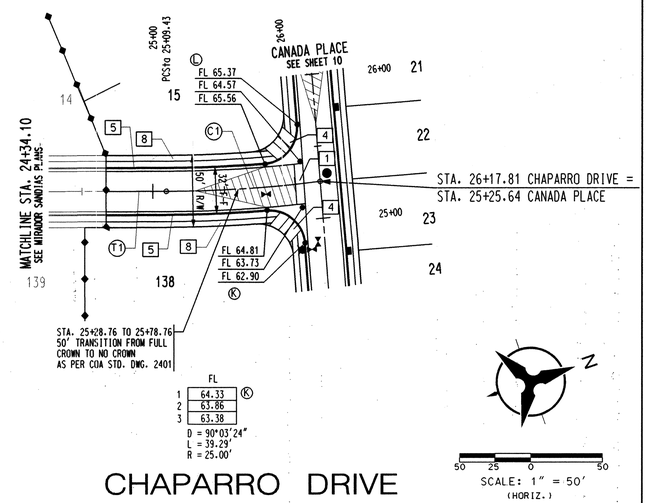
CHANDLER DRIVE ENTRANCE

CURVE DATA				
NUMBER	DELTA	TANGENT	ARC	RADIUS
C1	07°07'17"	=54.26'	108.38'	872.00'

TANGENT DATA		
NUMBER	BEARING	DISTANCE
T1	S18°52'18"W	50.33'

Ⓛ FL	
1	65.42
2	65.47
3	65.51

D = 89°52'08"
L = 39.21'
R = 25.00'



Ⓚ FL	
1	64.33
2	63.86
3	63.38

D = 90°03'24"
L = 39.29'
R = 25.00'

CHAPARRO DRIVE

NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF OF ANY DISCREPANCIES.
2. ALL CURB RETURN RADII SHALL BE 25' UNLESS OTHERWISE SPECIFIED.
3. ALL CURVE DATA AND DIMENSIONS REFER TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.
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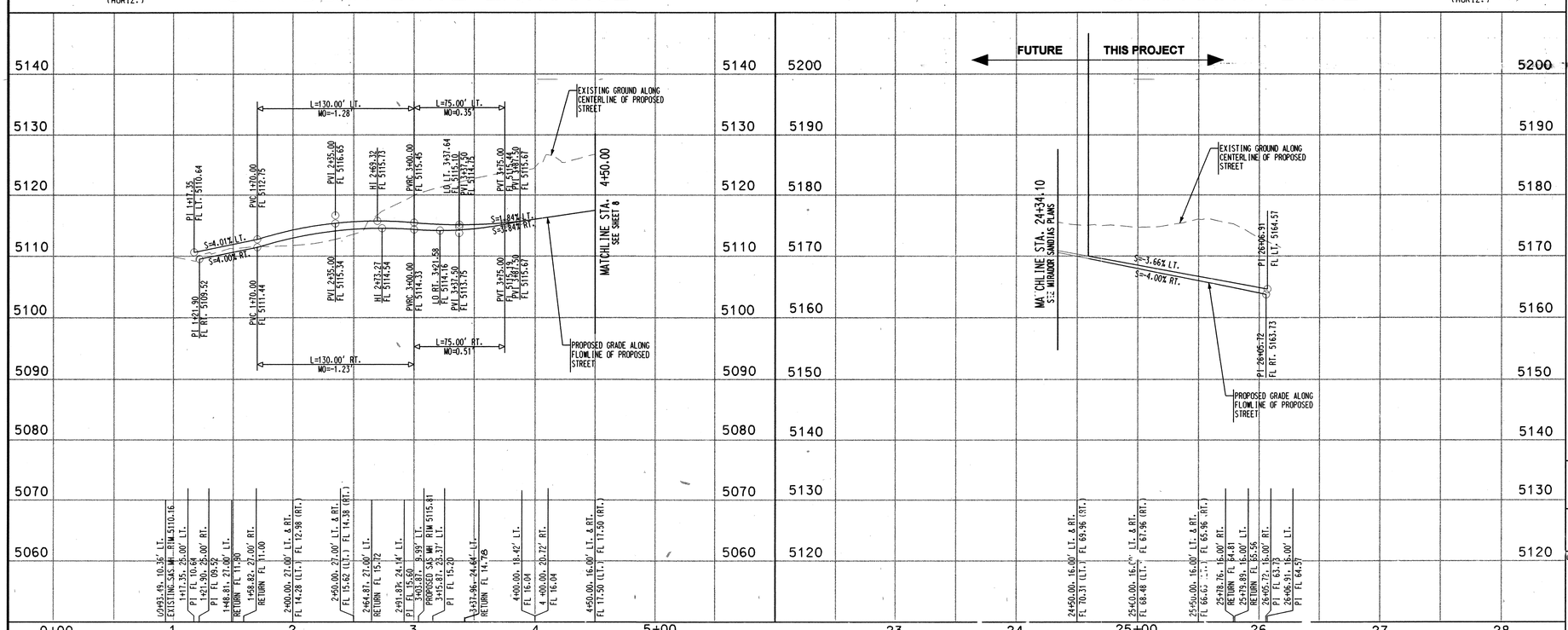
5. CONTRACTOR IS TO INSTALL A 4" X 4" X 5' POST AND EMD AT THE END OF EACH SANITARY SEWER SERVICE.
6. CONTRACTOR IS RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ALL UTILITY CONDUITS AND EXISTING LINES.
7. ANY ADDITIONAL GRADING REQUIRED TO MATCH PROPOSED STREET GRADES SHALL BE INCIDENTAL TO PAVING ITEMS.
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 & 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. WHEELCHAIR RAMPS SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB & GUTTER.
13. STATIONING AND OFFSETS GIVEN FOR DROP INLETS ARE GIVEN AT CENTER OF GRATE AT FLOWLINE

* NOT APPLICABLE THIS SHEET

KEYED GENERAL NOTES

- [1] INSTALL CONCRETE VALLEY GUTTER AS PER STD. DWG. 2420
- * [2] INSTALL CONCRETE VALLEY GUTTER ~~AS PER STD. DWG. 2421~~
- * [3] INSTALL WHEELCHAIR RAMP AS PER STD. DWG. 2441, CASE I WITH ALTERNATE SECTION AA
- [4] INSTALL WHEELCHAIR RAMP AS PER DETAIL, SEE SHEET 6
- [5] STD. CURB & GUTTER AS PER STD. DWG. 2415
- * [6] ROLL CURB & GUTTER AS PER STD. DWG. 2415
- [7] MEDIAN CURB & GUTTER AS PER STD. DWG. 2415
- [8] FUTURE 4' SIDEWALK
- [9] BUILD 4' SIDEWALK



AS-BUILT INFORMATION

CONTRACTOR SUNDANCE
STAKED BY ALS, INC
INSPECTOR'S ACCEPTANCE BY MCA DATE 1/99
FIELD VERIFICATION BY ALS, INC DATE 99
AS-BUILTS BY ALS, INC DATE 1/99
CORRECTED BY ALS, INC DATE 1/99

MICRO-FILM INFORMATION

RECORDED BY DATE
NO.

BENCH MARKS

ACS ALUMINUM TABLET STAMPED "4-813" (NAD 1927)
NM STATE PLANE COORDINATES (CENTRAL ZONE)
X=375,489.27 Y=1525,104.55 GROUND-TO-GRID FACTOR=0.9996705 DELTA ALPHA = -00°14'25" ELEVATION 5169.51'
USGS BRASS STAMPED "BLACK 2 1991" (NAS 1927)
NM STATE PLANE COORDINATES (CENTRAL ZONE)
X=372,920.43 Y=1,530,241.52 GROUND-TO-GRID FACTOR=0.99969164, DELTA ALPHA=00°14'43" ELEVATION 5213.93

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

JAMES R. TOPMILLER NEW MEXICO 9354 REGISTERED PROFESSIONAL ENGINEER
3-10-99

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGN

		DATE
DESIGNED BY	CMG/JCA	02/99
DRAWN BY	PEG/JAO/GGG	02/99
CHECKED BY	JCA	02/99

Bohannan ▲ Huston
Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109
ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

COTTONWOOD HILLS
PAVING PLAN & PROFILE
CHANDLER DRIVE ENTRANCE & CHAPPARRO DRIVE

DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL | LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR.

APPROVED MAY 1999 DESIGN REVIEW COMMITTEE

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
6092.81	A-13/B-13	7	21

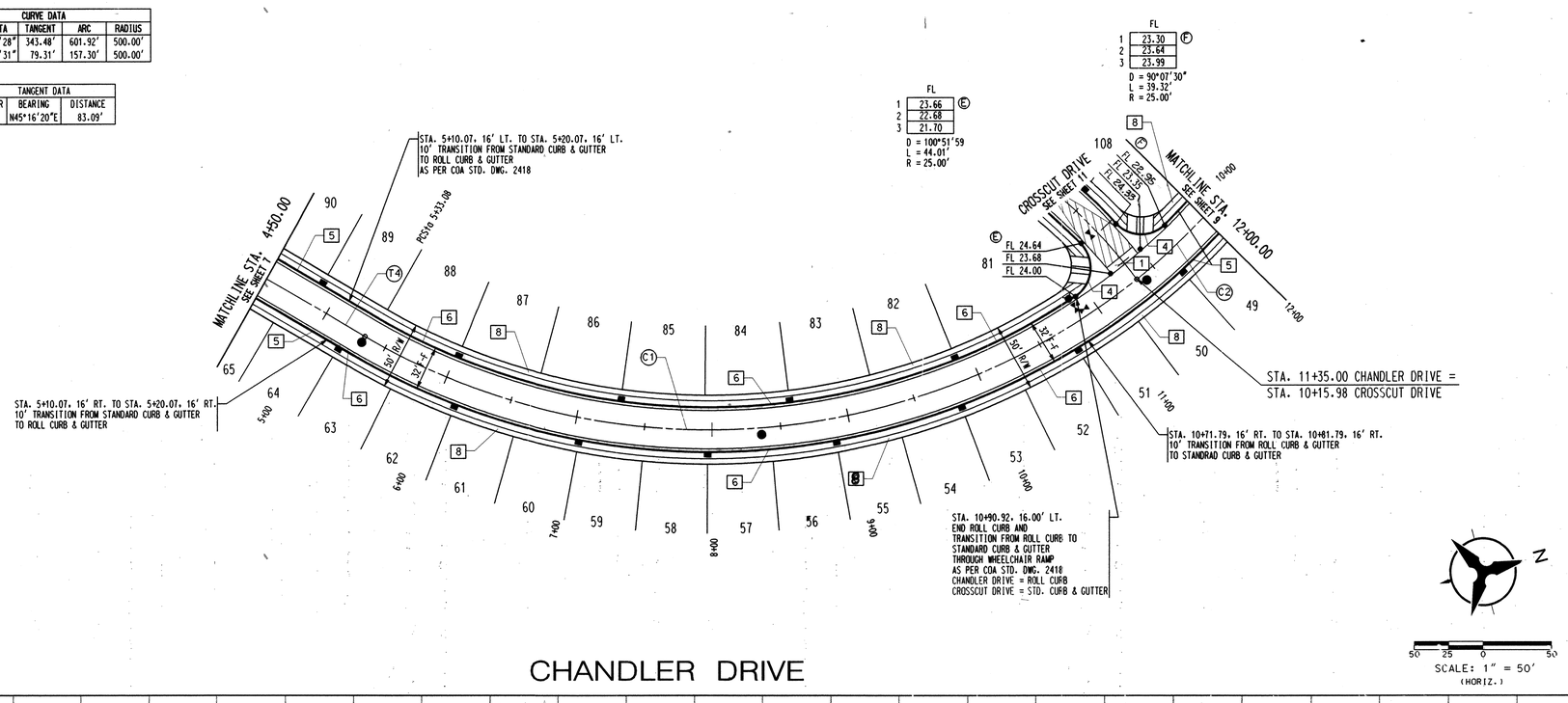
P:A01_BH 99413PPI *AIN\99413\CDP\PNP\UNIT 1\ 1.DGN

BHI JOB NO. 99413A02

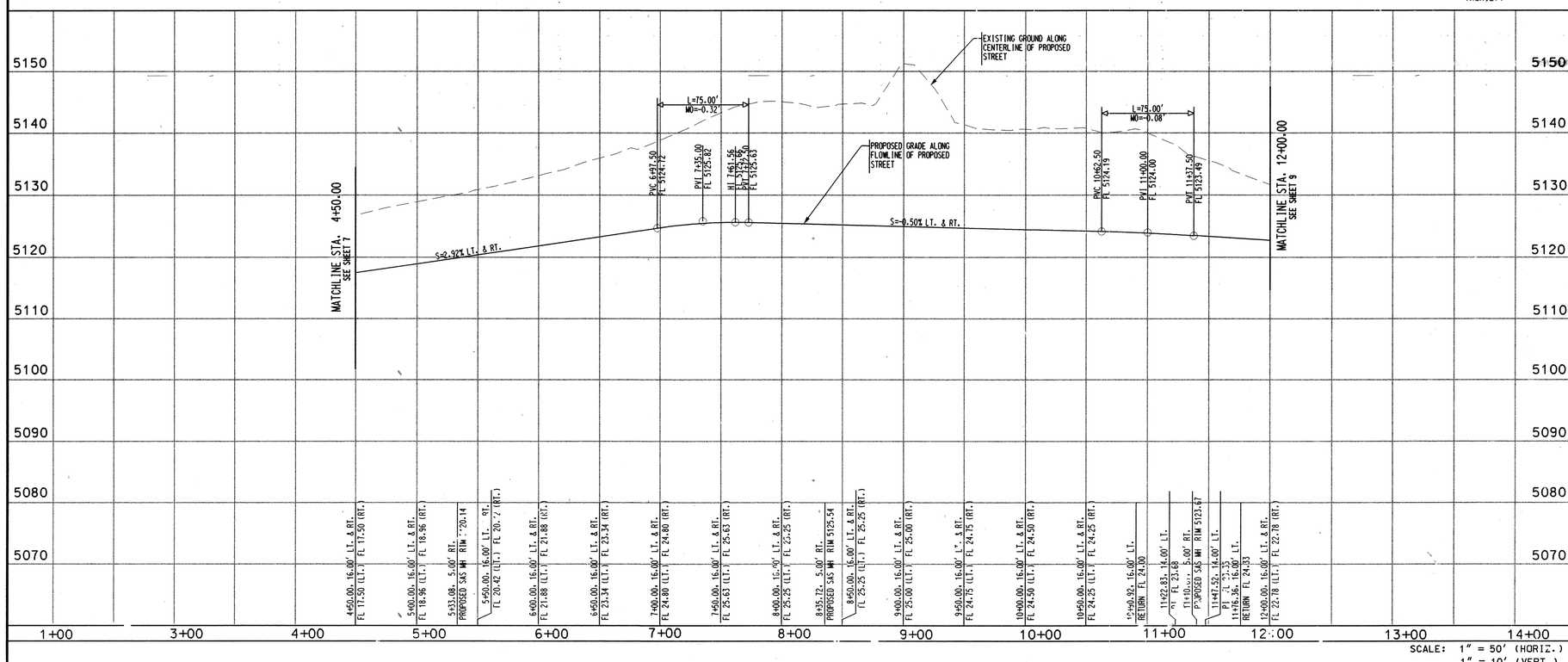
DATE: FEBRUARY, 1999

CURVE DATA				
NUMBER	DELTA	TANGENT	ARC	RADIUS
C1	63°58'28"	343.48'	601.92'	500.00'
C2	18°01'31"	79.31'	157.30'	500.00'

TANGENT DATA		
NUMBER	BEARING	DISTANCE
T4	N45°16'20"E	83.09'



CHANDLER DRIVE



NOTES

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11. REMOVAL OF THE EXISTING CURB AND GUTTER SHALL BE AS PER COA STD. DWG. 2415 (SAWCUT ONLY).
12. WHEELCHAIR RAMPS SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB & GUTTER.
13. STATIONING AND OFFSETS GIVEN FOR DROP INLETS ARE GIVEN AT CENTER OF GRATE AT FLOWLINE.

* NOT APPLICABLE THIS SHEET

KEYED GENERAL NOTES

1. INSTALL CONCRETE VALLEY GUTTER AS PER STD. DWG. 2420
* 2. INSTALL CONCRETE VALLEY GUTTER ~~AS PER STD. DWG. 2421~~
* 3. INSTALL WHEELCHAIR RAMP AS PER STD. DWG. 2441, CASE I WITH ALTERNATE SECTION AA
4. INSTALL WHEELCHAIR RAMP AS PER DETAIL, SEE SHEET 6
5. STD. CURB & GUTTER AS PER STD. DWG. 2415
6. ROLL CURB & GUTTER AS PER STD. DWG. 2415
* 7. MEDIAN CURB & GUTTER AS PER STD. DWG. 2415
8. FUTURE 4' SIDEWALK
* 9. BUILD 4' SIDEWALK

AS-BUILT INFORMATION

CONTRACTOR SUNDANCE
WORK STAKED BY ALS, INC DATE 11/98
INSPECTOR'S ACCEPTANCE BY MGA DATE 11/98
VERIFICATION BY ALS, INC DATE 1/99
ENGINEERING CORRECTED BY ALS, INC DATE 1/99
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

ACS ALUMINUM TABLET STAMPED "4-B13" (NAD 1927)
NM STATE PLANE COORDINATES (CENTRAL ZONE)
X=375,489.27 Y=1525,104.55 GROUND-TO-GRID FACTOR=0.99961705 DELTA ALPHA = -00°14'25" ELEVATION 5169.51'
USGS BRASS STAMPED "BLACK 2 1997" (NAS 1927)
NM STATE PLANE COORDINATES (CENTRAL ZONE)
X=372,920.43 Y=1,530,241.52 GROUND-TO-GRID FACTOR=0.99969164, DELTA ALPHA=00°14'43" ELEVATION 5213.93

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

JAMES R. TOPMILLER
NEW MEXICO
9354
REGISTERED PROFESSIONAL ENGINEER
3-10-99

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN

		DATE
DESIGNED BY	CMG/JCA	02/99
DRAWN BY	PEG/JAO/GGG	02/99
CHECKED BY	JCA	02/99

Bohannan ▲ Huston

Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109

ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

COTTONWOOD HILLS
PAVING PLAN & PROFILE
CHANDLER DRIVE

DESIGN REVIEW COMMITTEE — APPROVED MAY 1999 MAY - 3 1999 DESIGN REVIEW COMMITTEE

CITY ENGINEER APPROVAL

LAST DESIGN UPDATE — MO./DAY/YR. — MO./DAY/YR.

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
6092.81	A-13/B-13	8	24

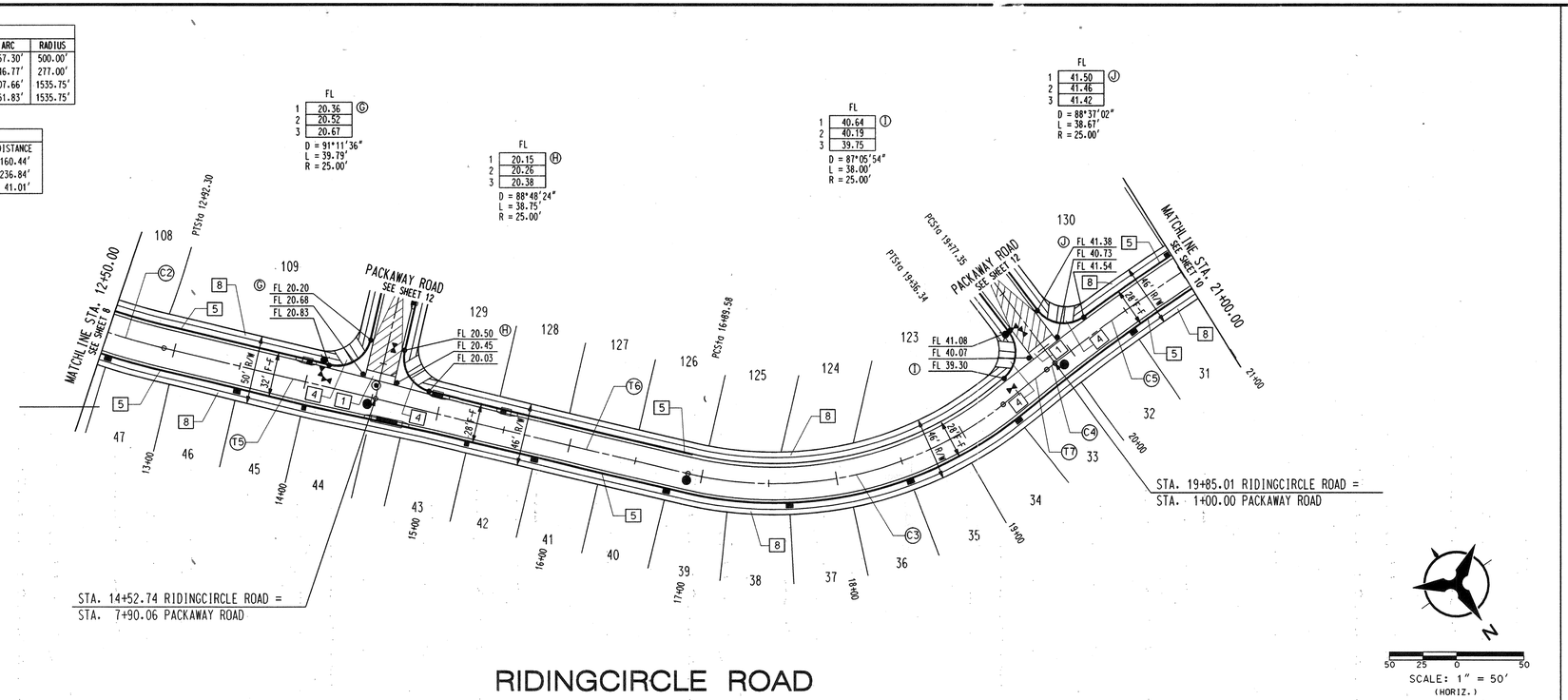
P:\A01_BHMAIN\99413\CDP\PNP\UNIT R\99413PPNP02.DGN

BHI JOB NO. 99413A02

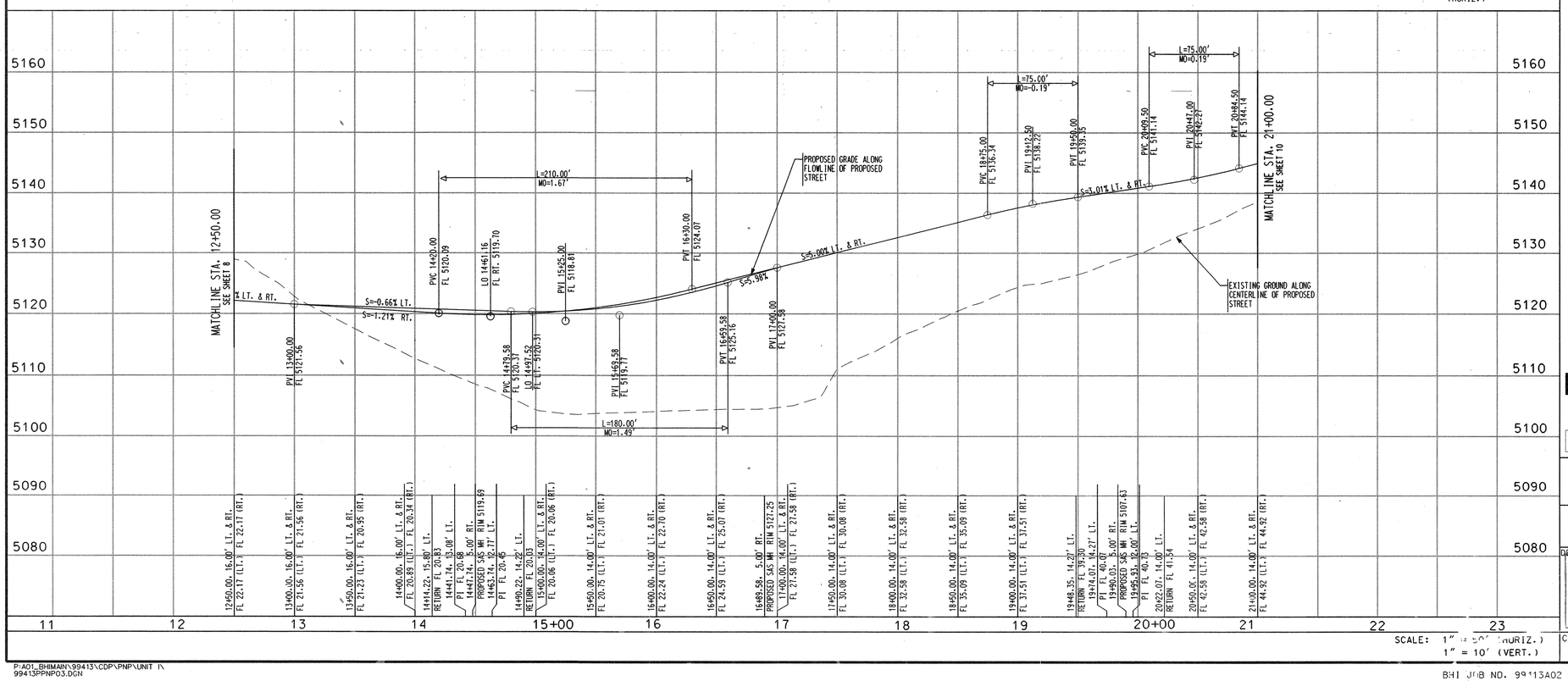
DATE: FEBRUARY, 1999

CURVE DATA				
NUMBER	DELTA	TANGENT	ARC	RADIUS
C2	18°01'31"	79.31'	157.30'	500.00'
C3	51°02'31"	132.25'	246.77'	277.00'
C4	00°17'09"	03.83'	07.66'	1535.75'
C5	16°51'25"	227.56'	451.83'	1535.75'

TANGENT DATA		
NUMBER	BEARING	DISTANCE
T5	N41°43'40"W	160.44'
T6	N41°43'40"W	236.84'
T7	S87°13'49"W	41.01'



RIDINGCIRCLE ROAD



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

NOTES

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13. STATIONING AND OFFSETS GIVEN FOR DROP INLETS ARE GIVEN AT CENTER OF GRATE AT FLOWLINE

* NOT APPLICABLE THIS SHEET

KEYED GENERAL NOTES

1. INSTALL CONCRETE VALLEY GUTTER AS PER STD. DWG. 2420
2. INSTALL CONCRETE VALLEY GUTTER AS PER STD. DWG. 2421
3. INSTALL WHEELCHAIR RAMP AS PER STD. DWG. 2441, CASE ~~I~~ WITH ALTERNATE SECTION AA
4. INSTALL WHEELCHAIR RAMP AS PER DETAIL, SEE SHEET 6
5. STD. CURB & GUTTER AS PER STD. DWG. 2415
6. ROLL CURB & GUTTER AS PER STD. DWG. 2415
7. MEDIAN CURB & GUTTER AS PER STD. DWG. 2415
8. FUTURE 4' SIDEWALK
9. BUILD 4' SIDEWALK

AS-BUILT INFORMATION

CONTRACTOR SUNDANCE
WORK STAKED BY AS, INC
INSPECTOR'S ACCEPTANCE BY MCA DATE Nov 99
FIELD VERIFICATION BY AS, INC DATE 99
DRAWINGS CORRECTED BY AS, INC DATE 99
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

ACS ALUMINUM TABLET STAMPED "4-B13" (NAD 1927)
NM STATE PLANE COORDINATES (CENTRAL ZONE)
X=315,489.27 Y=1525,104.55 GROUND-TO-GRID FACTOR= 0.9996705 DELTA ALPHA = -00°14'25" ELEVATION 5169.51'
USGS BRASS STAMPED "BLACK 2 1997" (NAS 1927)
NM STATE PLANE COORDINATES (CENTRAL ZONE)
X=372,920.43 Y=1,530,241.52 GROUND-TO-GRID FACTOR= 0.99969164. DELTA ALPHA=00°14'43" ELEVATION 5213.93

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

JAMES R. TOPULLER NEW MEXICO 9354 REGISTERED PROFESSIONAL ENGINEER
3-10-99

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY CMG/JCA DATE 02/99
DRAWN BY PEG/JAO/GGG DATE 02/99
CHECKED BY JCA DATE 02/99

Bohannan ▲ Huston
Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109
ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

COTTONWOOD HILLS
PAVING PLAN & PROFILE
RIDINGCIRCLE ROAD

DESIGN REVIEW COMMITTEE — APPROVED MAY 1999 DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL
LAST DESIGN UPDATE — MO./DAY/YR. — MO./DAY/YR.

CITY PROJECT NO. 6092.81
ZONE MAP NO. A-13/B-13
SHEET 9 OF 24

P:\A01_BHIMAIN\99413\CDP\PNP\UNIT IX 99413PPNP03.DGN
BHI JOB NO. 99413A02

DATE: FEBRUARY, 1999

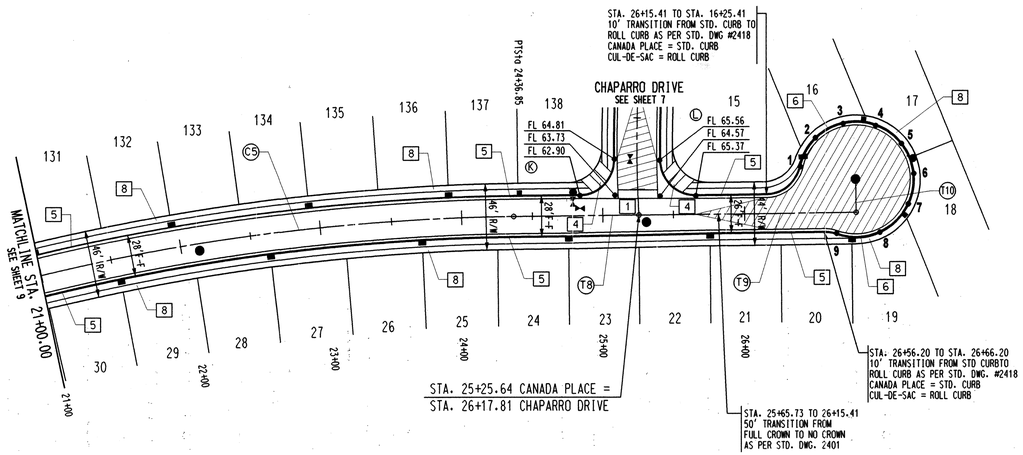
CURVE DATA				
NUMBER	DELTA	TANGENT	ARC	RADIUS
C5	16°51'25"	227.56'	451.83'	1535.75'

TANGENT DATA		
NUMBER	BEARING	DISTANCE
T8	N75°37'37"W	88.79'
T9	N75°37'37"W	153.01'
T10	N14°22'23"E	23.00'

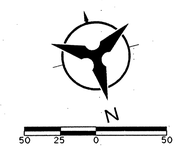
FL
1 64.33 (K)
2 63.86
3 63.38
D = 90°03'24"
L = 39.29'
R = 25.00'

FL
1 65.47 (L)
2 65.47
3 65.51
D = 89°52'08"
L = 39.21'
R = 25.00'

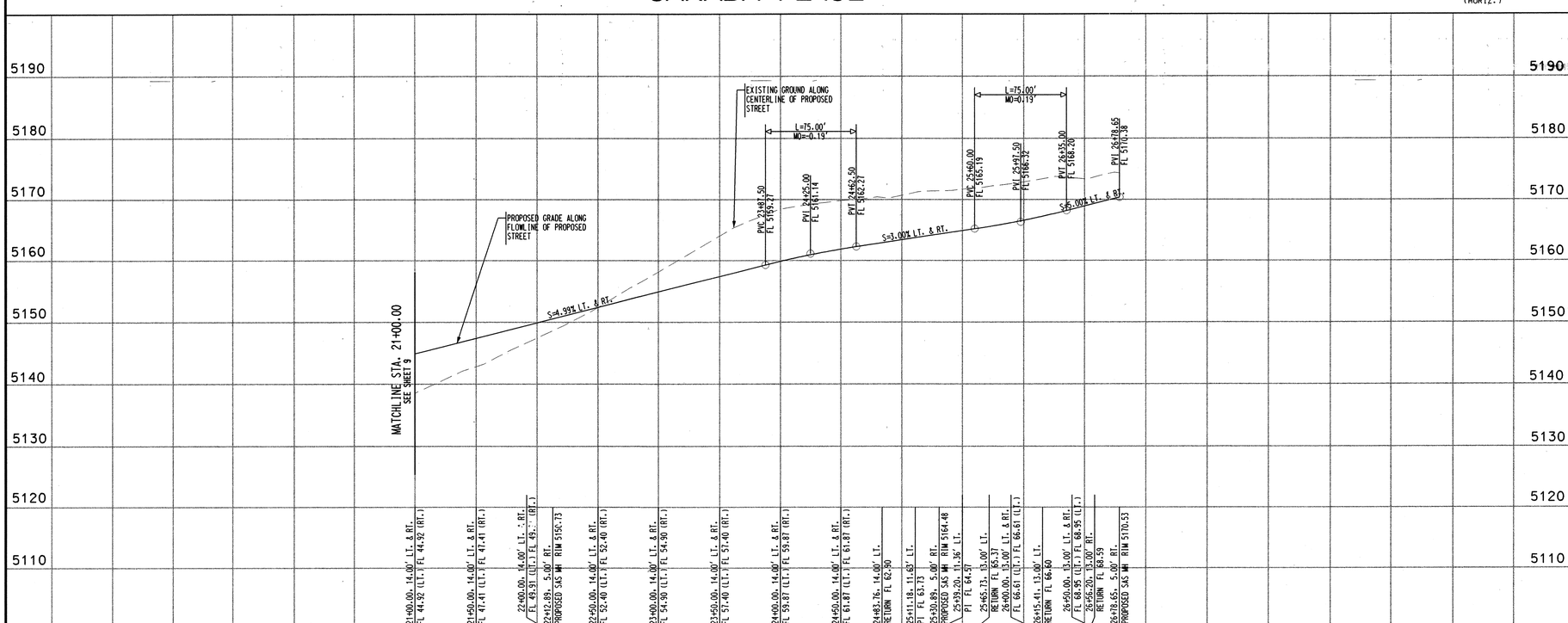
CUL-DE-SAC CUTB DATA		
PT	FL	STAION & OFFSET
1	68.43	26+39.73, 32.23' LT.
2	68.98	26+50.68, 52.46' LT.
3	69.96	26+70.22, 62.08' LT.
4	71.09	26+92.90, 60.38' LT.
5	71.99	27+10.85, 47.45' LT.
6	72.40	27+19.15, 26.44' LT.
7	72.20	27+15.05, 05.26' LT.
8	71.20	26+95.07, 14.02' RT.
9	69.69	26+64.84, 14.54' RT.



CANADA PLACE



SCALE: 1" = 50'
(HORIZ.)



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

NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF OF ANY DISCREPANCIES.
2. ALL CURB RETURN RADII SHALL BE 25' UNLESS OTHERWISE SPECIFIED.
3. ALL CURVE DATA AND DIMENSIONS REFER TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.
4. GRADE ELEVATIONS, WHERE NOTED, ARE ALONG FLOWLINE OF STANDARD CURB UNLESS OTHERWISE SPECIFIED.
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13. STATIONING AND OFFSETS GIVEN FOR DROP INLETS ARE GIVEN AT CENTER OF GRATE AT FLOWLINE

* NOT APPLICABLE THIS SHEET

KEYED GENERAL NOTES

1. INSTALL CONCRETE VALLEY GUTTER AS PER STD. DWG. 2420
2. INSTALL CONCRETE VALLEY GUTTER ~~AS PER STD. DWG. 2421~~
3. INSTALL WHEELCHAIR RAMP AS PER STD. DWG. 2441, CASE I WITH ALTERNATE SECTION AA
4. INSTALL WHEELCHAIR RAMP AS PER DETAIL, SEE SHEET 6
5. STD. CURB & GUTTER AS PER STD. DWG. 2415
6. ROLL CURB & GUTTER AS PER STD. DWG. 2415
7. MEDIAN CURB & GUTTER AS PER STD. DWG. 2415
8. FUTURE 4' SIDEWALK
9. BUILD 4' SIDEWALK

AS-BUILT INFORMATION

CONTRACTOR SUNDANCE
STAKED BY ALS, INC
INSPECTOR'S VERIFICATION BY VIGA DATE 11/99
FIELD VERIFICATION BY ALS, INC DATE 99
DRAWINGS CORRECTED BY ALS, INC DATE 1/99
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
ACS ALUMINUM TABLET STAMPED "4-B13" (NAD 1927)
NM STATE PLANE COORDINATES (CENTRAL ZONE)
X=375,489.27 Y=1525.104.55 GROUND-TO-GRID FACTOR= 0.999867065 DELTA ALPHA = -00°14'25" ELEVATION 5169.51'
USGS BRASS STAMPED "BLACK 2 1997" (NAS 1927)
NM STATE PLANE COORDINATES (CENTRAL ZONE)
X=372,920.43 Y=1,530,241.52 GROUND-TO-GRID FACTOR= 0.999669164, DELTA ALPHA=00°14'43" ELEVATION 5213.93

ENGINEER'S SEAL

JAMES R. TOPMILLER NEW MEXICO 9354 REGISTERED PROFESSIONAL ENGINEER
3-10-99

SURVEY INFORMATION
FIELD NOTES

NO.	DATE	BY

NO.	DATE	BY

REMARKS
REVISIONS
DESIGN

DESIGNED BY CMG/JCA DATE 02/99
DRAWN BY PEG/JAO/GGG DATE 02/99
CHECKED BY JCA DATE 02/99

Bohannan ▲ Huston
Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109
ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

COTTONWOOD HILLS
PAVING PLAN & PROFILE
CANADA PLACE

DESIGN REVIEW COMMITTEE CITY ENGINEER APPROVAL
APPROVED MAY - 3 1999 DESIGN REVIEW COMMITTEE

LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR.

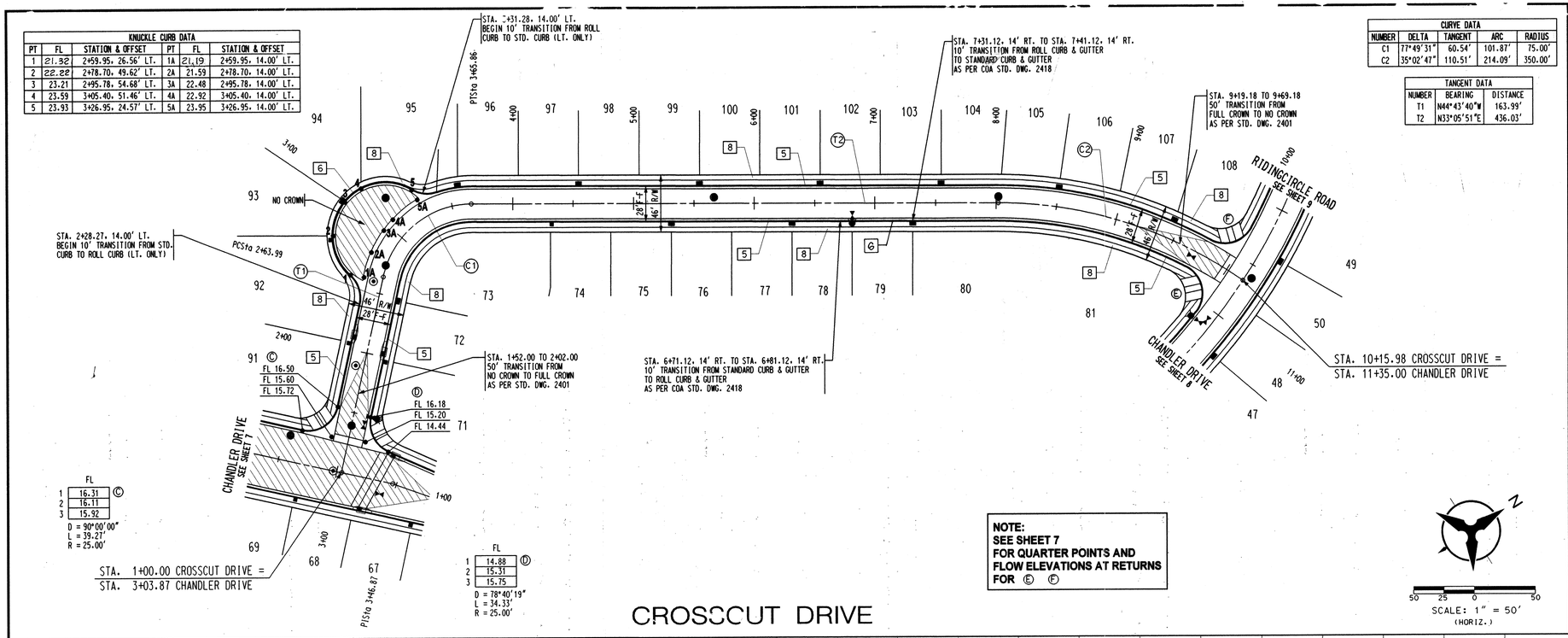
CITY PROJECT NO. 6092.81 | ZONE MAP NO. A-13/B-13 | SHEET 10 OF 24

P:\A01_BHIMAIN\PROJNO\CDP\PNP\UNIT 1\
99413PPNP04.DGN

BHI JOB NO. 99413A02

DATE: FEBRUARY, 1999

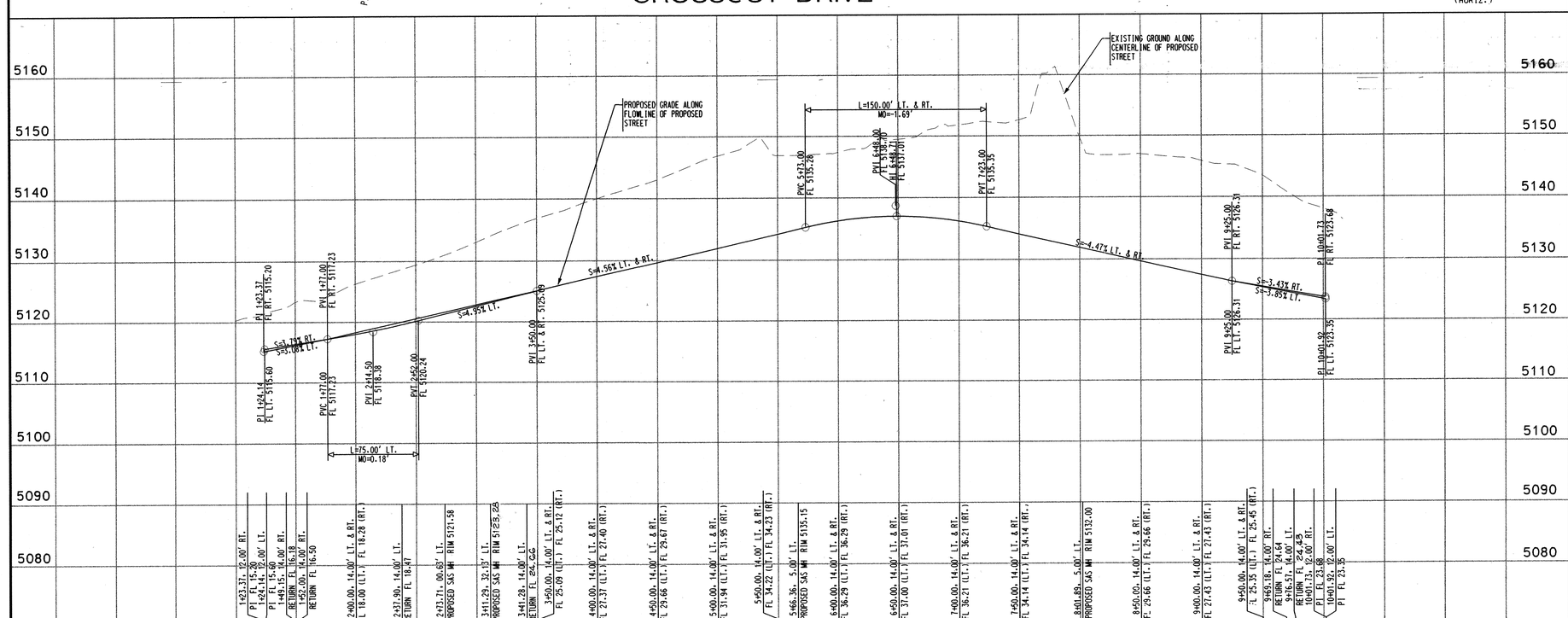
KNUCKLE CURB DATA					
PT	FL	STATION & OFFSET	PT	FL	STATION & OFFSET
1	21.32	2+59.95. 26.56' LT.	1A	21.19	2+59.95. 14.00' LT.
2	22.22	2+78.70. 49.62' LT.	2A	21.59	2+78.70. 14.00' LT.
3	23.21	2+95.78. 54.68' LT.	3A	22.48	2+95.78. 14.00' LT.
4	23.59	3+05.40. 51.46' LT.	4A	22.92	3+05.40. 14.00' LT.
5	23.93	3+26.95. 24.57' LT.	5A	23.95	3+26.95. 14.00' LT.



CURVE DATA				
NUMBER	DELTA	TANGENT	ARC	RADIUS
C1	77°49'31"	60.54'	101.87'	75.00'
C2	35°02'47"	110.51'	214.09'	350.00'

TANGENT DATA		
NUMBER	BEARING	DISTANCE
T1	N44°43'40"W	163.99'
T2	N33°05'51"E	436.03'

CROSSCUT DRIVE



NOTES

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* NOT APPLICABLE THIS SHEET

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6. ROLL CURB & GUTTER AS PER STD. DWG. 2415
7. MEDIAN CURB & GUTTER AS PER STD. DWG. 2415
8. FUTURE 4' SIDEWALK
9. BUILD 4' SIDEWALK

AS-BUILT INFORMATION

CONTRACTOR SUNDANCE
STAKED BY ALS, INC DATE 1/99
ACCEPTANCE BY YMCA DATE 1/99
FIELD VERIFICATION BY ALS, INC DATE 1/99
DRAWINGS CORRECTED BY ALS, INC DATE 1/99
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

ACS ALUMINUM TABLET STAMPED "4-B13" (NAD 1927)
NM STATE PLANE COORDINATES (CENTRAL ZONE)
X=375,489.27 Y=1525,104.55 GROUND-TO-GRID FACTOR= 0.999610
DELTA ALPHA = -00°14'25" ELEVATION 5169.51'
USGS BRASS STAMPED "BLACK 2 1937" (NAS 1927)
NM STATE PLANE COORDINATES (CENTRAL ZONE)
X=372,920.43 Y=1,530,241.52 GROUND-TO-GRID FACTOR= 0.999969164
DELTA ALPHA=00°14'43" ELEVATION 5213.53

SURVEY INFORMATION
FIELD NOTES

NO.	DATE	BY

ENGINEER'S SEAL

JAMES R. TOPMILLER
NEW MEXICO
9354
REGISTERED PROFESSIONAL ENGINEER
3-10-99

NO.	DATE	REMARKS	BY
		REVISIONS	

		DATE
DESIGNED BY	CMG/JCA	02/99
DRAWN BY	PEG/JAO/GGG	02/99
CHECKED BY	JCA	02/99

Bohannan ▲ Huston
Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109
ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

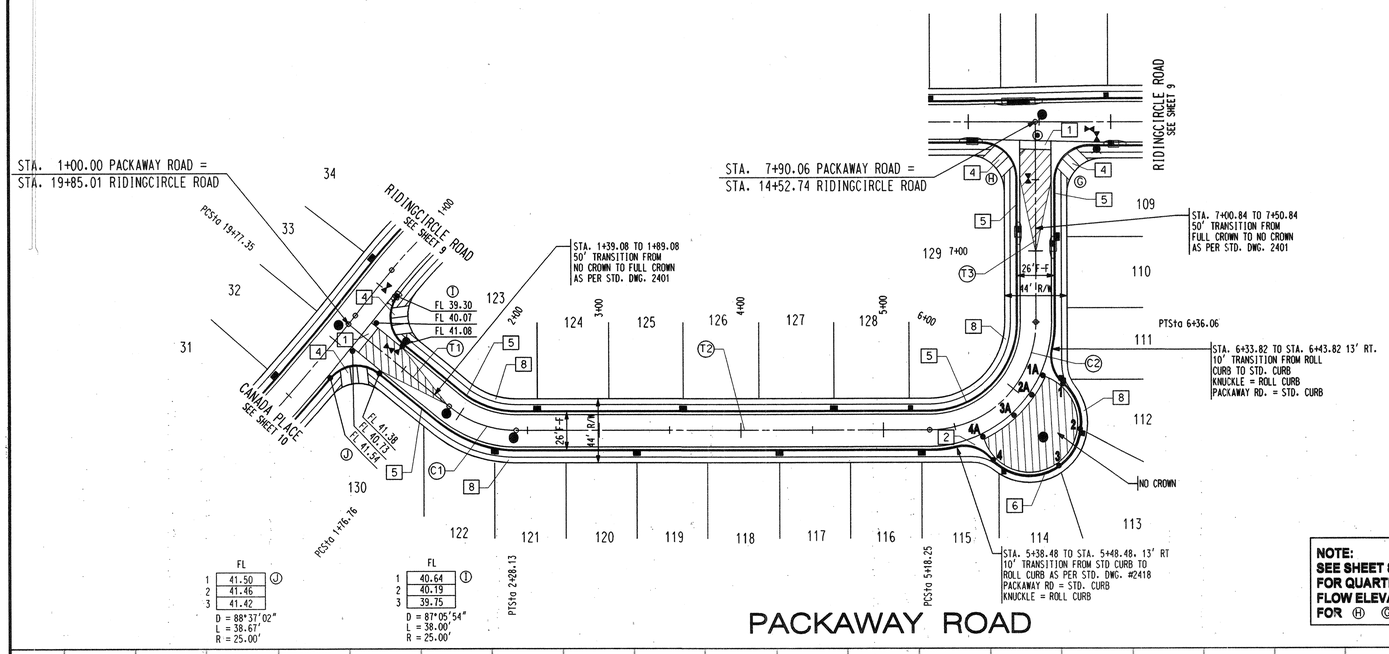
COTTONWOOD HILLS
PAVING PLAN & PROFILE
CROSSCUT DRIVE

DESIGN REVIEW COMMITTEE — APPROVED MAY - 3 1999 DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL
LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR.

CITY PROJECT NO. 6092.81 | ZONE MAP NO. A-13/B-13 | SHEET 11 OF 24

P:A01_BHIMAIN#99413#CDP#PNP#UNIT I
99413PPNP05.DGN

BHI JOB NO. 99413A02



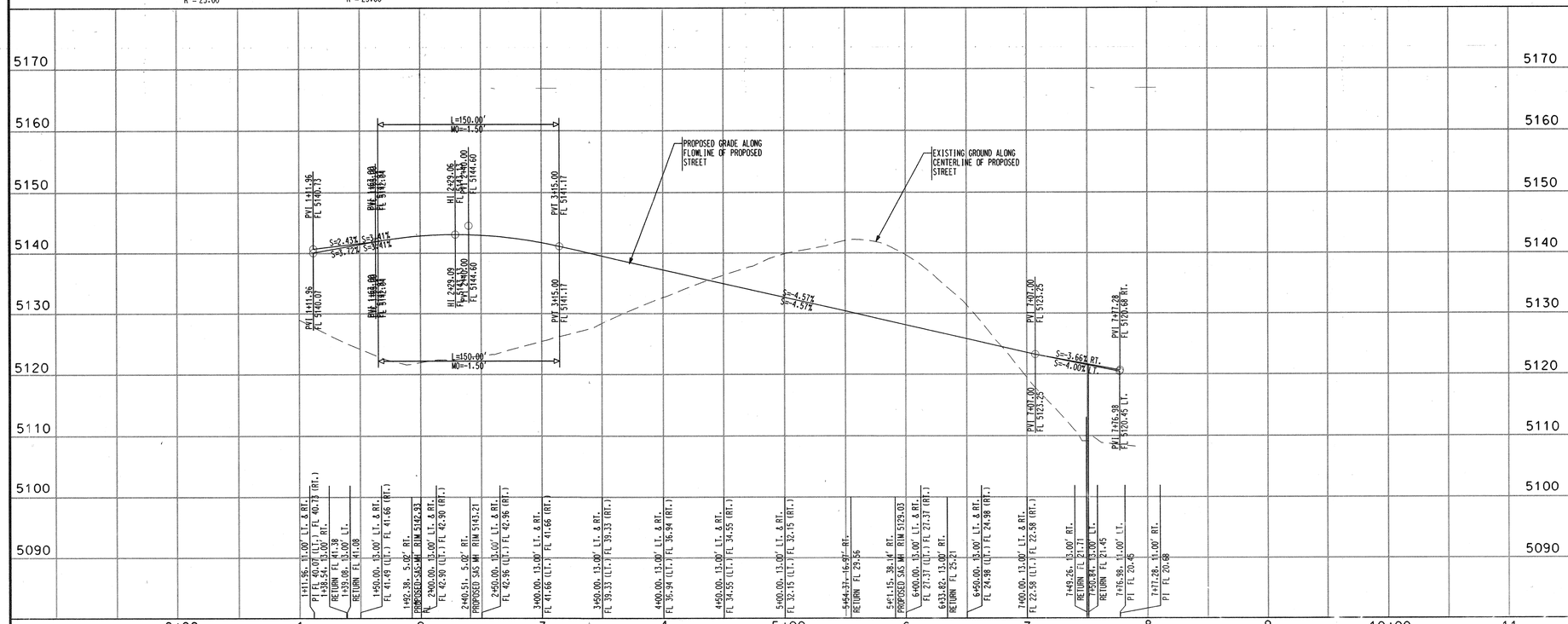
KNUCKLE CURB DATA					
PT	FL	STATION & OFFSET	PT	FL	STATION & OFFSET
1	26.72	6+17.82. 28.21' RT.	1A	26.52	6+17.82. 13.00' RT.
2	27.92	6+04.03. 54.32' RT.	2A	27.18	6+04.03. 13.00' RT.
3	28.80	5+87.81. 59.63' RT.	3A	27.95	5+87.81. 13.00' RT.
4	29.17	5+64.96. 30.25' RT.	4A	29.05	5+64.96. 13.00' RT.

CURVE DATA				
NUMBER	DELTA	TANGENT	ARC	RADIUS
C1	39°14'37"	26.74'	51.37'	75.00'
C2	90°00'00"	75.00'	117.81'	75.00'

TANGENT DATA		
NUMBER	BEARING	DISTANCE
T1	N02°29'03"W	90.76'
T2	N41°43'40"W	290.12'
T3	S48°16'20"W	140.00'

NOTE:
SEE SHEET 8
FOR QUARTER POINTS AND
FLOW ELEVATIONS AT RETURNS
FOR Ⓗ Ⓖ

SCALE: 1" = 50'
(HORIZ.)



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Bohannan ▲ Huston
Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

COTTONWOOD HILLS
PAVING PLAN & PROFILE
PACKAWAY ROAD

DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL | LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR.
APPROVED MAY - 3 1999 DESIGN REVIEW COMMITTEE

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
6092.81	A-13/B-13	12	24

AS-BUILT INFORMATION
CONTRACTOR SUNDANCE
WORK STAKED BY ALS, INC DATE 11/99
INSPECTOR'S ACCEPTANCE BY MCA DATE 12/99
FIELD VERIFICATION BY ALS, INC DATE 1/00
DRAWINGS CORRECTED BY ALS, INC DATE 1/00
MICRO-FILM INFORMATION
RECORDED BY DATE
NO. DATE

BENCH MARKS
ACS ALUMINUM TABLET STAMPED "4-B13" (NAD 1927)
NM STATE PLANE COORDINATES (CENTRAL ZONE)
X=375,489.27 Y=1,525,104.55 GROUND-TO-GRID FACTOR=
0.999605 DELTA ALPHA = -00°14'25" ELEVATION 5169.51'
USGS BRASS STAMPED "BLACK 2 1997" (NAS 1927)
NM STATE PLANE COORDINATES (CENTRAL ZONE)
X=372,320.43 Y=1,530,241.52 GROUND-TO-GRID FACTOR=
0.999669164. DELTA ALPHA=00°14'43" ELEVATION 5213.93

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

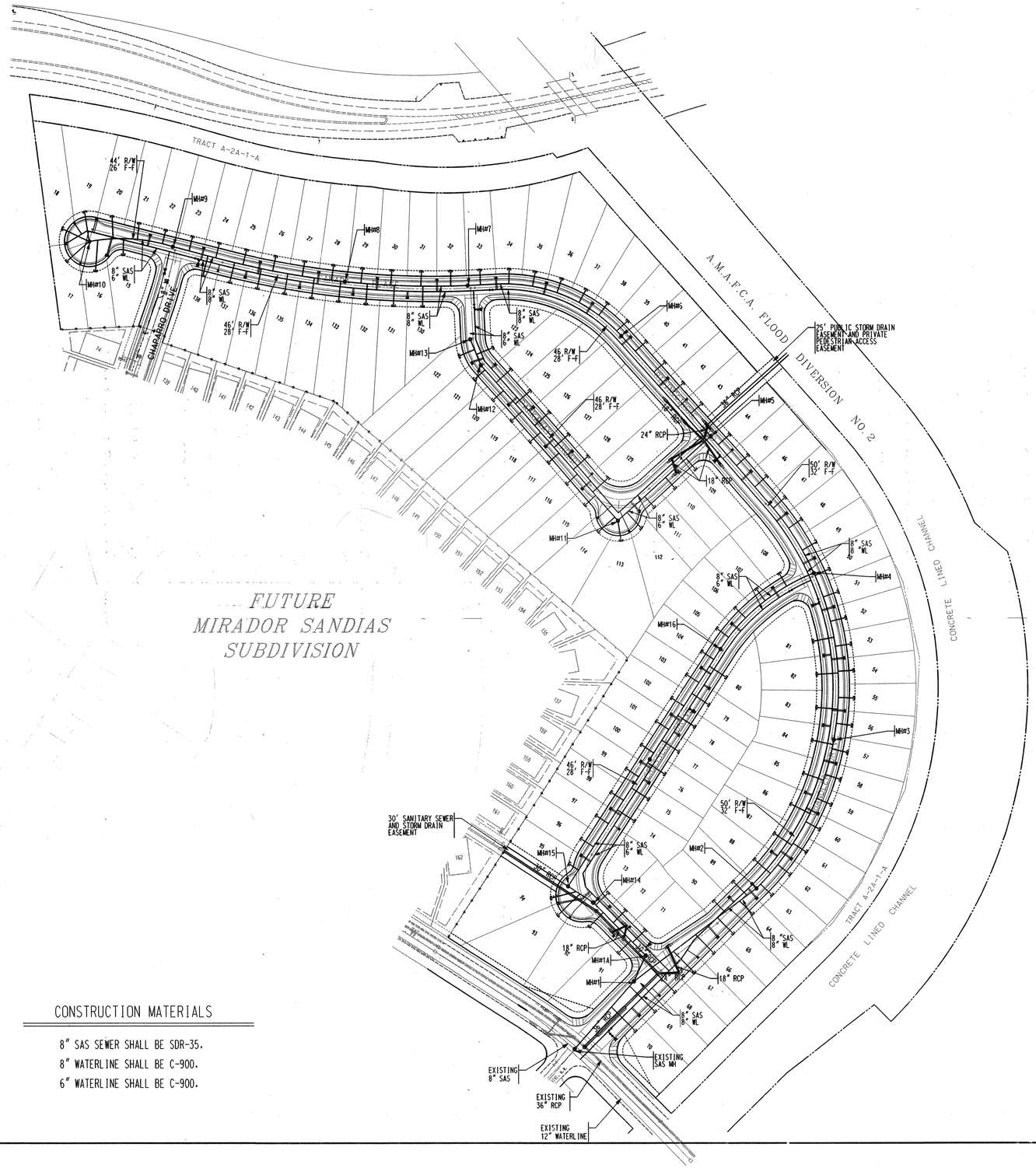
ENGINEER'S SEAL
JAMES R. TOPMILLER
NEW MEXICO
9354
REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY CMG/JCA DATE 02/99
DRAWN BY PEG/JAO/GGG DATE 02/99
CHECKED BY JCA DATE 02/99

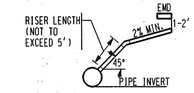
P:A01_BHIMAIN#99413#CDP#PNP#UNIT1
99413PPNP06.DGN

BHI JOB NO. 99413A02

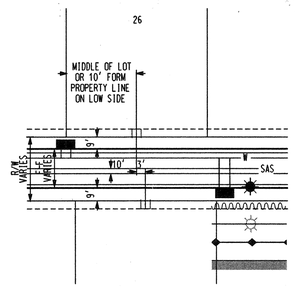


LEGEND

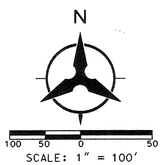
- PROPOSED SANITARY SEWER MANHOLE
- EXISTING SANITARY SEWER MANHOLE
- PROPOSED STORM SEWER MH
- EXISTING STORM SEWER MH
- PROPOSED FIRE HYDRANT
- EXISTING FIRE HYDRANT
- PROPOSED GATE VALVE
- EXISTING GATE VALVE
- PROPOSED SANITARY SEWER LINE — SAS
- EXISTING SANITARY SEWER LINE — SAS
- PROPOSED WATER LINE — W
- EXISTING WATER LINE — W
- PROPOSED STORM DRAIN — RCP
- EXISTING STORM DRAIN — RCP
- PROPOSED SANITARY SEWER SERVICE
- PROPOSED DOUBLE WATER METER SERVICE
- PHASING BOUNDARY
- PROPOSED STORM DRAIN INET



SERVICE RISER DETAIL
(SERVICE CONNECTION * INSTALLATION TO CONFORM TO COA STD. DWG. 2134 USE C1 SOIL PIPE ONLY)



TYPICAL UTILITY SERVICE LOCATION
NO SCALE



CONSTRUCTION MATERIALS

8" SAS SEWER SHALL BE SDR-35.
8" WATERLINE SHALL BE C-900.
6" WATERLINE SHALL BE C-900.

AS-BUILT INFORMATION

CONTRACTOR: SUNDANCE
WORK STAKED BY: ACS, INC. DATE 11/99
ACCEPTANCE BY: MGA DATE 11/99
FIELD VERIFICATION BY: ACS, INC. DATE 11/99
DRAWINGS CORRECTED BY: ACS, INC. DATE 11/99
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
ACS ALUMINUM TABLET STAMPED "4-B13" (NAD 1927)
N.M. STATE PLANE COORD. (CENTRAL ZONE)
X=357,489.21 Y=1,525,104.55 GRID-GRID FACTOR=0.9996705
DELTA ALPHA = 00°14'25" ELEVATION 5169.51'
USGS BRASS TABLET STAMPED "BLACK 2 1997" (NAS 1927)
N.M. STATE PLANE COORDINATES (CENTRAL ZONE)
X = 372,920.43 Y = 1,530,241.52 GROUND TO GRID FACTOR
0.99969164. DELTA ALPHA=00°14'43" ELEVATION 5213.93'

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
JAMES R. TOPMILLER NEW MEXICO 9354 REGISTERED PROFESSIONAL ENGINEER
3-10-99

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY CMG/JCA DATE 01/99
DRAWN BY GGG/PEG DATE 01/99
CHECKED BY JCA DATE 01/99

Bohannan ▲ Huston
Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109
ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

COTTONWOOD HILLS
OVERALL
UTILITY PLAN

DESIGN REVIEW COMMITTEE: APPROVED MAY - 3 1999 DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL
LAST DESIGN UPDATE

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
6092.81	A-13/B-13	13	24

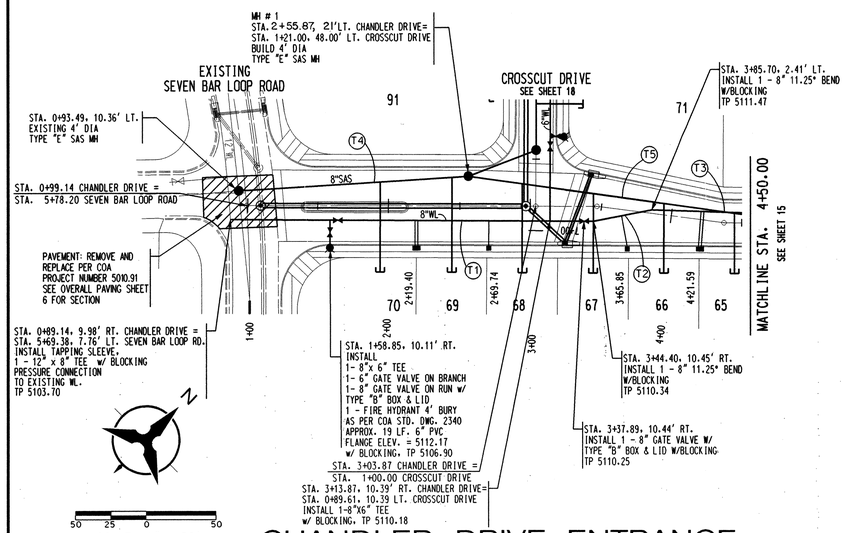
BHI JOB NO. 99413A02

WATERLINE TANGENT DATA		
NUMBER	BEARING	LENGTH
T1	N45°22'42"E	256.57'
T2	N34°07'42"E	42.10'
T3	N46°42'36"E	146.10'

SANITARY SEWER TANGENT DATA		
NUMBER	BEARING	LENGTH
T4	S41°29'44"W	162.82'
T5	S52°53'34"W	279.02'

SANITARY SEWER SERVICES			
LOT NUMBER	SAS STATION & OFFSET	SAS LENGTH	TOP OF PIPE AT PLUG (W/RISER)
65	4+45.07, 6.78'LT.	41.77'	111.59(6.00)
66	3+93.75, 8.21'LT.	48.46'	110.15(4.00)
67	3+44.40, 9.15'LT.	55.15'	108.71(2.00)
68	2+94.40,15.84'LT.	61.84'	107.18(10.00)
69	2+44.40,10.07'LT.	66.24'	107.59(5.00)
70	1+94.40,16.94'LT.	62.94'	107.13(7.00)

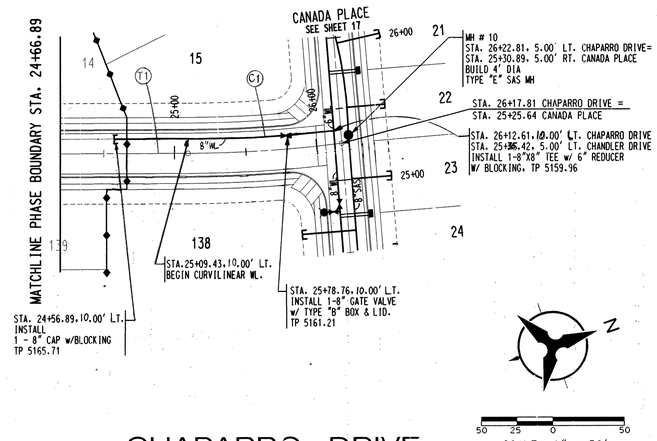
NOTE: WATER METER LOCATIONS ARE DESIGNATED BY STATIONING AT PROPERTY CORNERS.



CHANDLER DRIVE ENTRANCE

WATERLINE TANGENT DATA		
NUMBER	BEARING	LENGTH
T1	S18°52'18"W	52.54'

WATERLINE CURVE DATA				
NUMBER	ARC	RADIUS	DELTA	TANGENT
C1	103.77'	877.00'	06°31'59"	51.95'



CHAPARRO DRIVE

NOTES

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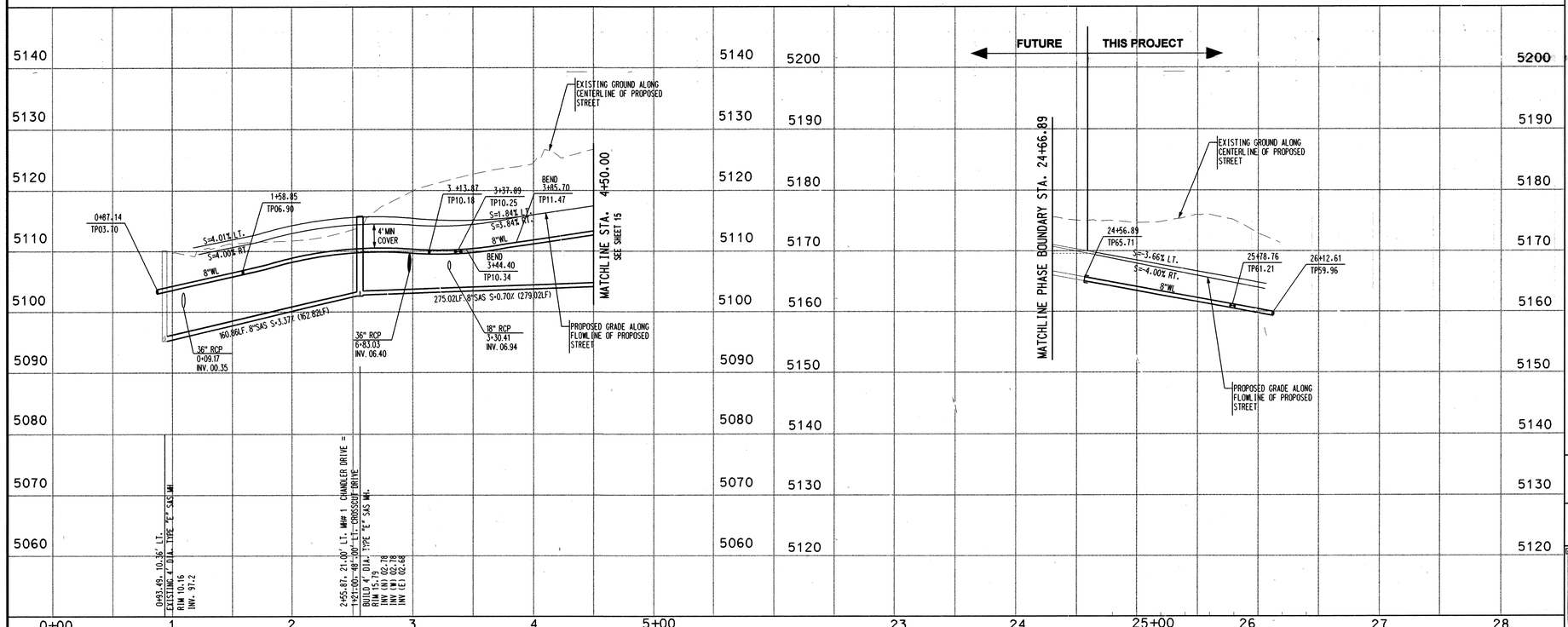
12. WHEELCHAIR RAMPS SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB & GUTTER.
13. STATIONING AND OFFSETS GIVEN FOR DROP INLETS ARE GIVEN AT CENTER OF GRATE AT FLOWLINE.



BENCH MARKS	
ACS ALUMINUM TABLET STAMPED "4-B13" (NAD 1927)	
NM STATE PLANE COORDINATES (CENTRAL ZONE)	
X=375,489.27 Y=1525,104.55 GROUND-TO-GRID FACTOR= 0.999670 DELTA ALPHA = -00°14'25" ELEVATION 5189.51'	
USGS BRASS STAMPED "BLACK 2 1997" (NAS 1927)	
NM STATE PLANE COORDINATES (CENTRAL ZONE)	
X=372,920.43 Y=1,530,241.52 GROUND-TO-GRID FACTOR= 0.999669164 DELTA ALPHA=00°14'43" ELEVATION 5213.93	

AS-BUILT INFORMATION

CONTRACTOR SUNCANCE
WORK STAKED BY ALS, INC
STAKING CHECKED BY MGA DATE 11/99
ACCEPTANCE BY ALS, INC DATE 11/99
FIELD LOCATION BY ALS, INC DATE 11/99
DRAWINGS CORRECTED BY ALS, INC DATE 11/99

MICRO-FILM INFORMATION

RECORDED BY DATE
NO.

ENGINEER'S SEAL

JAMES R. TOPMILLER NEW MEXICO 9354 REGISTERED PROFESSIONAL ENGINEER
3-10-99

FIELD NOTES

NO.	DATE	BY

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY CMG/JCA DATE 02/99
DRAWN BY PEG/JAO/GGG DATE 02/99
CHECKED BY JCA DATE 02/99

Bohannan ▲ Huston
Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109
ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

COTTONWOOD HILLS
UTILITY PLAN & PROFILE
CHANDLER DRIVE ENTRANCE & CHAPPARRO DRIVE

DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL | MO./DAY/YR. | MO./DAY/YR.
APPROVED MAY - 3 1999 DESIGN REVIEW COMMITTEE
LAST DESIGN UPDATE

CITY PROJECT NO. 6092.81 | ZONE MAP NO. A-13/B-13 | SHEET 14 OF 24

P:\A01_BHMAIN\99413\CDP\PNP\UNIT 1\
99413UPNP01.DGN

BHI JOB NO. 99413A02

SANITARY SEWER SERVICES			
LOT NUMBER	SAS STATION & OFFSET	SAS LENGTH	TOP OF PIPE AT PLUG (W/RISER)
49	11+86.08, 5.00'RT.	30.00'	16.84(7.00)
50	11+35.12, 5.00'RT.	30.00'	17.05(8.00)
51	10+94.31, 5.00'RT.	30.00'	17.45(9.00)
52	10+48.42, 5.00'RT.	30.00'	17.81(10.00)
53	10+02.53, 5.00'RT.	30.00'	18.17(11.00)
54	9+57.50, 5.00'RT.	30.00'	17.86(11.00)
55	9+10.76, 5.00'RT.	30.00'	18.22(12.00)
56	8+64.87, 5.00'RT.	30.00'	18.58(13.00)
57	8+18.98, 5.00'RT.	30.00'	18.85(14.00)
58	7+73.10, 5.00'RT.	30.00'	19.21(15.00)
59	7+28.07, 5.00'RT.	30.00'	18.89(15.00)
60	6+82.18, 5.00'RT.	30.00'	17.89(14.00)
61	6+37.29, 5.00'RT.	30.00'	16.21(12.00)
62	5+90.40, 5.00'RT.	30.00'	15.21(11.00)
63	5+43.66, 5.00'RT.	34.23'	14.21(10.00)
64	4+95.01, 5.00'RT.	39.80'	112.59(8.00)
65	SEE SHEET 14	——	——

NOTE: WATER METER LOCATIONS ARE DESIGNATED BY STATIONING AT PROPERTY CORNERS.

SANITARY SEWER SERVICES			
LOT NUMBER	SAS STATION & OFFSET	SAS LENGTH	TOP OF PIPE AT PLUG (W/RISER)
81	10+18.74, 5.00'RT.	40.00'	18.01(10.00)
82	9+54.16, 5.00'RT.	40.00'	15.53(7.00)
83	8+90.11, 5.00'RT.	40.00'	19.16(13.00)
84	8+26.17, 5.00'RT.	40.00'	19.31(14.00)
85	7+62.62, 5.00'RT.	40.00'	19.54(15.00)
86	6+98.47, 5.00'RT.	40.00'	18.41(14.00)
87	6+33.33, 5.00'RT.	40.00'	16.60(12.00)
88	5+69.76, 5.00'RT.	40.00'	14.79(10.00)
89	5+11.84, 2.63'RT.	37.63'	13.51(9.00)
90	4+61.84, 2.93'LT.	32.07'	12.28(8.00)
108	SEE SHEET 16	——	——

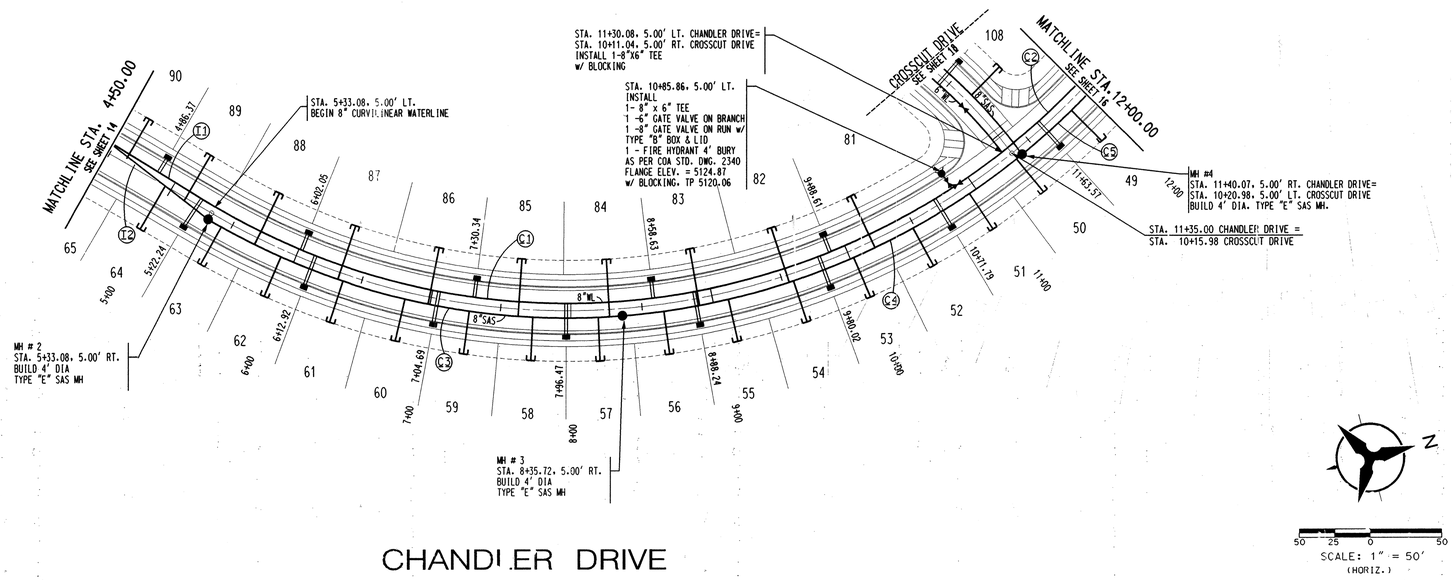
NOTE: WATER METER LOCATIONS ARE DESIGNATED BY STATIONING AT PROPERTY CORNERS.

WATERLINE CURVE DATA				
NUMBER	ARC	RADIUS	DELTA	TANGENT
C1	591.02'	495.00'	11°34'29"	336.41'
C2	160.60'	495.00'	11°34'29"	81.01'

SANITARY SEWER CURVE DATA				
NUMBER	ARC	RADIUS	DELTA	TANGENT
C3	305.66'	505.00'	11°20'45"	157.68'
C4	307.39'	505.00'	11°20'45"	158.62'
C5	153.76'	505.00'	11°20'45"	77.47'

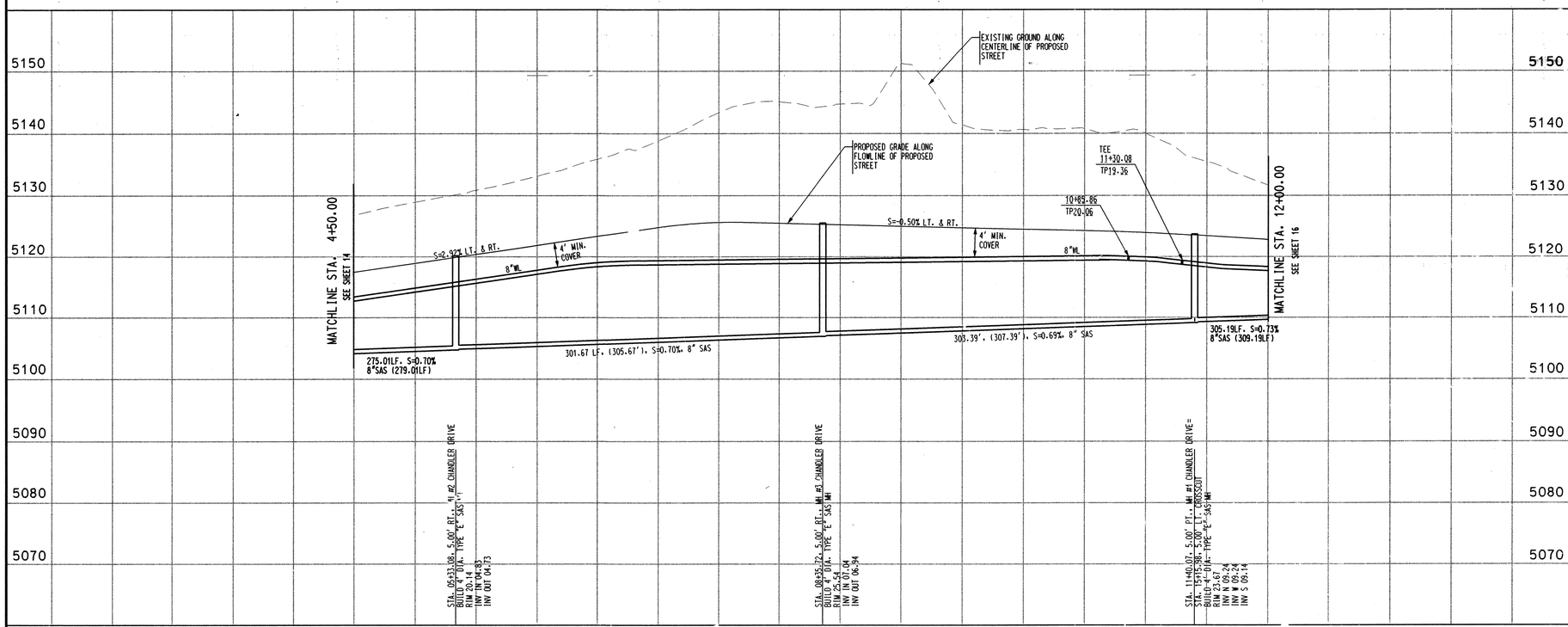
WATERLINE TANGENT DATA		
NUMBER	BEARING	LENGTH
T1	N46°42'36"E	146.75'

SANITARY SEWER TANGENT DATA		
NUMBER	BEARING	LENGTH
T2	S51°45'38"W	230.02'



CHANDLER DRIVE

SCALE: 1" = 50' (HORIZ.)



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

NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF OF ANY DISCREPANCIES.
2. ALL CURB RETURN RADII SHALL BE 25' UNLESS OTHERWISE SPECIFIED.
3. ALL CURVE DATA AND DIMENSIONS REFER TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.
4. GRADE ELEVATIONS, WHERE NOTED, ARE ALONG FLOWLINE OF STANDARD CURB UNLESS OTHERWISE SPECIFIED.
5. CONTRACTOR IS TO INSTALL A 4" X 4" X 5' 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.
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13. STATIONING AND OFFSETS GIVEN FOR DROP INLETS ARE GIVEN AT CENTLR OF GRATE AT FLOWLINE

AS-BUILT INFORMATION
CONTRACTOR SUNDANCE
STAKED BY ACS, INC
INSPECTOR'S CHANGES BY MCA DATE 1/99
FIELD VERIFICATION BY ACS, INC DATE 1/99
DRAWINGS CORRECTED BY ACS, INC DATE 1/99
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

	DATE
ACS ALUMINUM TABLET STAMPED "A-813" (NAD 1927)	
NM STATE PLANE COORDINATES (CENTRAL ZONE)	
X=375,489.27 Y=1525.104.55 GROUND-TO-GRID FACTOR=	
0.9996705 DELTA ALPHA = -00°14'25" ELEVATION 5169.51'	
USGS BRASS STAMPED "BLACK 2 1997" (NAS 1927)	
NM STATE PLANE COORDINATES (CENTRAL ZONE)	
X=372,920.43 Y=1,530,241.52 GROUND-TO-GRID FACTOR=	
0.999669164, DELTA ALPHA=00°14'43" ELEVATION 5213.53	

ENGINEER'S SEAL

JAMES R. TOPMILLER NEW MEXICO 9354 REGISTERED PROFESSIONAL ENGINEER
3-16-99

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY CMG/JCA DATE 02/99
DRAWN BY PEG/JAO/GGG DATE 02/99
CHECKED BY JCA DATE 02/99

Bohannan ▲ Huston
Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109
ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

COTTONWOOD HILLS
UTILITY PLAN & PROFILE
CHANDLER DRIVE

DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL

APPROVED MAY - 3 1999 DESIGN REVIEW COMMITTEE

LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR.

CITY PROJECT NO. 6092.81 | ZONE MAP NO. A-13/B-13 | SHEET .15 OF 24

P:\A01_BHIMAIN\99413\CDP\PNP\UNIT 1\ 99413UPNP02.DGN

BHI JOB NO. 99413A02

DATE: FEBRUARY, 1999

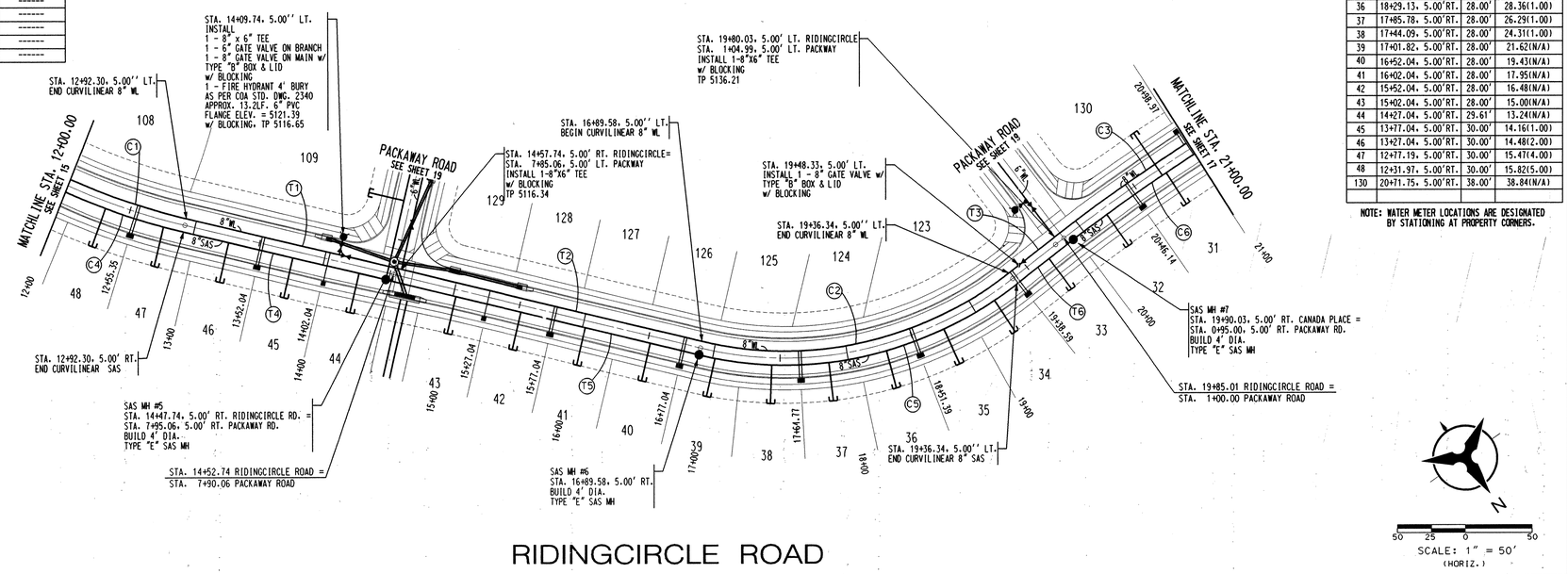
SANITARY SEWER SERVICES			
LOT NUMBER	SAS STATION & OFFSET	SAS LENGTH	TOP OF PIPE AT PLUG (W/RISER)
108	SEE SHEET 15	------	------
109	SEE SHEET 19	------	------
123	SEE SHEET 19	------	------
124	SEE SHEET 19	------	------
125	SEE SHEET 19	------	------
126	SEE SHEET 19	------	------
127	SEE SHEET 19	------	------
128	SEE SHEET 19	------	------
129	SEE SHEET 19	------	------

WATERLINE TANGENT DATA		
NUMBER	BEARING	LENGTH
T1	N41°43'40"W	165.43'
T2	N41°43'40"W	231.84'
T3	N87°19'26"E	46.79'

SANITARY SEWER TANGENT DATA		
NUMBER	BEARING	LENGTH
T4	S41°43'40"W	155.44'
T5	S41°43'40"E	241.94'
T6	N87°17'09"E	53.70'

WATERLINE CURVE DATA				
NUMBER	ARC	RADIUS	DELTA	TANGENT
C1	160.60'	495.00'	11°34'29"	81.01'
C2	242.31'	272.00'	21°03'52"	129.86'
C3	458.30'	1540.75'	03°43'07"	230.86'

SANITARY SEWER CURVE DATA				
NUMBER	ARC	RADIUS	DELTA	TANGENT
C4	153.75'	505.00'	11°20'45"	77.47'
C5	251.22'	282.00'	20°19'04"	134.63'
C6	222.13'	1530.75'	03°44'35"	111.26'



SANITARY SEWER SERVICES			
LOT NUMBER	SAS STATION & OFFSET	SAS LENGTH	TOP OF PIPE AT PLUG (W/RISER)
31	20+75.25. 5.00'RT.	28.00'	38.77(N/A)
32	20+21.14. 5.00'RT.	28.00'	36.31(N/A)
33	19+67.08. 5.03'RT.	28.00'	34.24(N/A)
34	19+16.12. 5.00'RT.	28.00'	32.50(1.00)
35	18+73.86. 5.00'RT.	28.00'	30.49(1.00)
36	18+29.13. 5.00'RT.	28.00'	28.36(1.00)
37	17+85.78. 5.00'RT.	28.00'	26.29(1.00)
38	17+44.09. 5.00'RT.	28.00'	24.31(1.00)
39	17+01.82. 5.00'RT.	28.00'	21.62(N/A)
40	16+52.04. 5.00'RT.	28.00'	19.43(N/A)
41	16+02.04. 5.00'RT.	28.00'	17.95(N/A)
42	15+52.04. 5.00'RT.	28.00'	16.48(N/A)
43	15+02.04. 5.00'RT.	28.00'	15.00(N/A)
44	14+27.04. 5.00'RT.	29.61'	13.24(N/A)
45	13+77.04. 5.00'RT.	30.00'	14.16(1.00)
46	13+27.04. 5.00'RT.	30.00'	14.48(2.00)
47	12+77.19. 5.00'RT.	30.00'	15.47(4.00)
48	12+31.97. 5.00'RT.	30.00'	15.82(5.00)
130	20+71.75. 5.00'RT.	38.00'	38.84(N/A)

NOTE: WATER METER LOCATIONS ARE DESIGNATED BY STATIONING AT PROPERTY CORNERS.

NOTES

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2. ALL CURB RETURN RADII SHALL BE 25' UNLESS OTHERWISE SPECIFIED.
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11. REMOVAL OF THE EXISTING CURB AND GUTTER SHALL BE AS PER COA STD. DWG. 2415 (SAWCUT ONLY).
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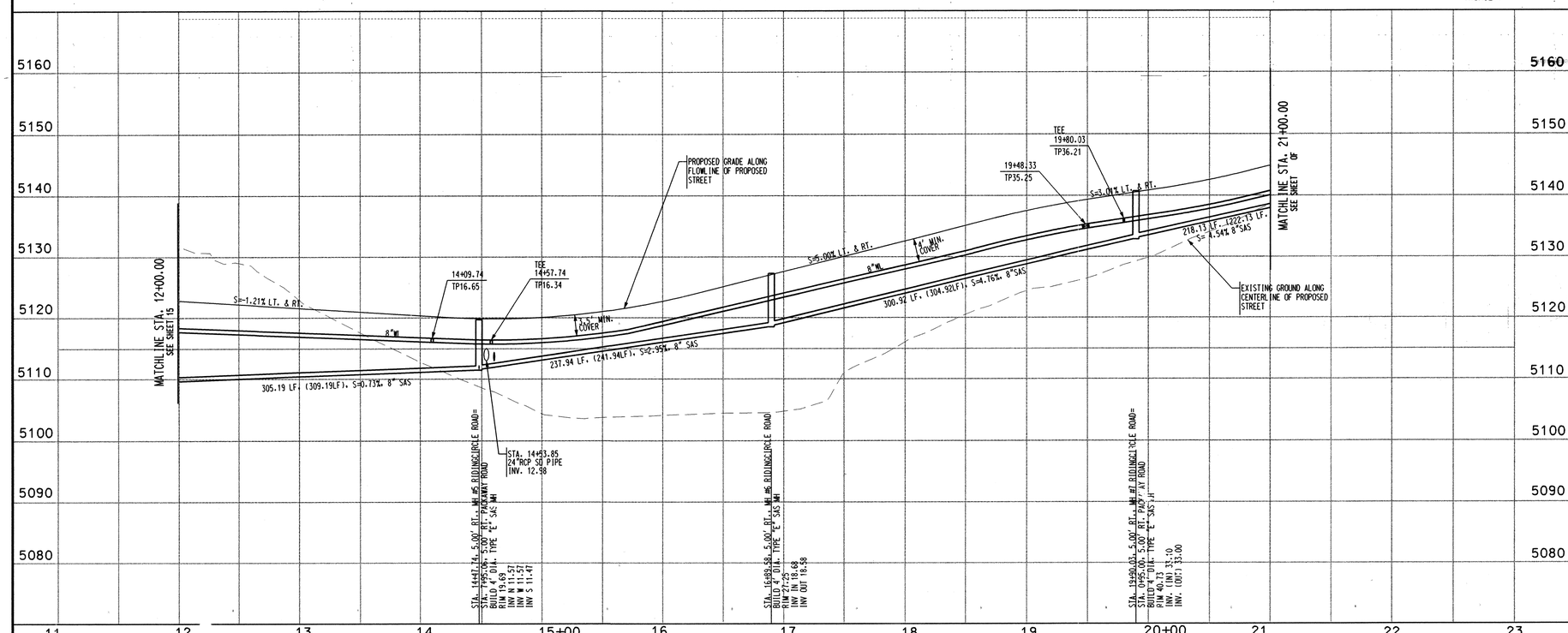
13. STATIONING AND OFFSETS GIVEN FOR DROP INLETS ARE GIVEN AT CENTER OF GRATE AT FLOWLINE



BENCH MARKS	
ACS ALUMINUM TABLET STAMPED "4-B13" (NAD 1927)	
NM STATE PLANE COORDINATES (CENTRAL ZONE)	
X=375,489.27 Y=1525,104.52 GROUND-TO-GRID FACTOR= 0.999610 5 DELTA ALPHA = -00°14'25" ELEVATION 5169.51'	
USGS BRASS STAMPED "BLACK 2 1997" (NAD 1927)	
NM STATE PLANE COORDINATES (CENTRAL ZONE)	
X=372,920.43 Y=1,530,241.52 GROUND-TO-GRID FACTOR= 0.999669164. DELTA ALPHA=00°14'43" ELEVATION 5213.93	

AS-BUILT INFORMATION
CONTRACTOR SUNDANCE
STAKED BY AGS, INC DATE 11/99
ACCEPTANCE BY WGA DATE 11/99
FIELD VERIFICATION BY AGS, INC DATE 11/99
DRAWINGS CORRECTED BY AGS, INC DATE 11/99
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

ENGINEER'S SEAL
JAMES R. TOPMILLER NEW MEXICO 9394 REGISTERED PROFESSIONAL ENGINEER
3.10.99

NO.	BY	DATE

FIELD NOTES

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGN

DESIGNED BY	CMG/JCA	DATE 02/99
DRAWN BY	PEG/JAO/GGG	DATE 02/99
CHECKED BY	JCA	DATE 02/99

Bohannan ▲ Huston
Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109
ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

COTTONWOOD HILLS
UTILITY PLAN & PROFILE
RIDINGCIRCLE ROAD

DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL
APPROVED MAY - 3 1999 DESIGN REVIEW COMMITTEE

LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
6092.81	A-13/B-13	16	24

P:\A01_BHIMAIN\99413\CDP\PNP\UNIT 1\
99413UPNP03.DGN

BHI JOB NO. 99413A02

SANITARY SEWER SERVICES			
LOT NUMBER	SAS STATION & OFFSET	SAS LENGTH	TOP OF PIPE AT PLUG (W/RISER)
15	26+13.59. 3.31'RT.	35.31'	61.69(N/A)
16	26+68.28.16.35'LT.	57.74'	63.35(N/A
17	26+78.65.MANHOLE	55.00'	64.34(N/A)
18	26+78.65.MANHOLE	55.00'	65.44(N/A)
19	26+78.65.MANHOLE	55.00'	65.44(N/A)
20	26+38.84. 2.78'LT.	36.68'	63.70(N/A)
21	26+00.50. 5.00'RT.	27.29'	61.30(N/A)
22	25+50.50. 5.00'RT.	27.00'	58.90(N/A)
23	25+00.50. 5.00'RT.	28.00'	56.97(N/A)
24	24+50.50. 5.00'RT.	28.00'	55.65(1.00)
25	24+00.38. 5.00'RT.	28.00'	53.65(1.00)
26	23+45.91. 5.00'RT.	28.00'	50.79(N/A)
27	22+91.76. 5.00'RT.	28.00'	48.62(N/A)
28	22+37.62. 5.00'RT.	28.00'	46.46(N/A)
29	21+83.48. 5.00'RT.	28.00'	43.68(N/A)
30	21+29.36. 5.00'RT.	28.00'	41.22(N/A)
131	21+23.14. 5.00'RT.	38.00'	42.14(N/A)
132	21+71.77. 5.00'RT.	38.00'	43.35(N/A)
133	22+20.72. 5.00'RT.	38.00'	46.18(N/A)
134	22+69.35. 5.00'RT.	38.00'	48.13(N/A)
135	23+17.99. 5.00'RT.	38.00'	50.07(N/A)
136	23+66.62. 5.00'RT.	38.00'	52.70(1.00)
137	24+15.69. 5.00'RT.	38.00'	54.66(1.00)
138	24+64.95. 5.00'RT.	38.00'	55.95(N/A)

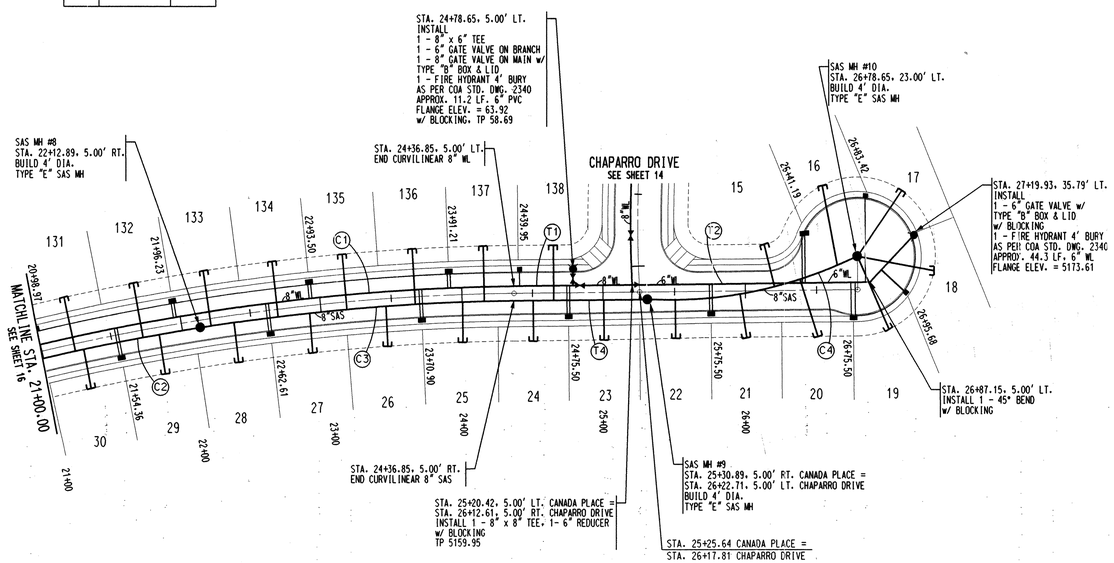
NOTE: WATER METER LOCATIONS ARE DESIGNATED BY STATIONING AT PROPERTY CORNERS.

WATERLINE TANGENT DATA		
NUMBER	BEARING	LENGTH
T1	N75°37'37"W	83.57'
T2	N75°37'37"W	71.25'

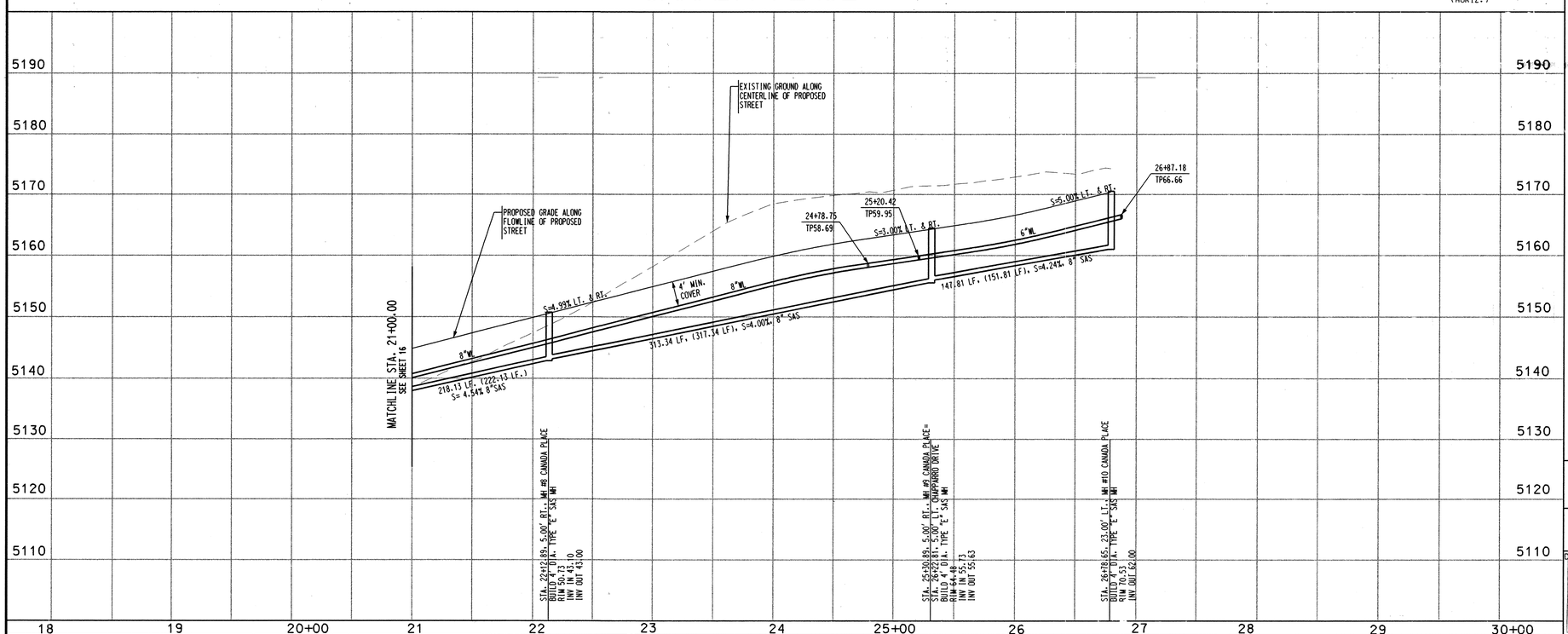
SANITARY SEWER TANGENT DATA		
NUMBER	BEARING	LENGTH
T4	S75°37'37"E	94.11'

WATERLINE CURVE DATA				
NUMBER	ARC	RADIUS	DELTA	TANGENT
C1	458.30'	1540.75'	03°43'07"	230.86'

SANITARY SEWER CURVE DATA				
NUMBER	ARC	RADIUS	DELTA	TANGENT
C2	222.13'	1530.75'	3°44'35"	111.26'
C3	223.23'	1530.75'	3°44'35"	111.81'
C4	151.81	300.00'	28°59'38"	77.57'



CANADA PLACE



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

NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF OF ANY DISCREPANCIES.
2. ALL CURB RETURN RADII SHALL BE 25' UNLESS OTHERWISE SPECIFIED.
3. ALL CURVE DATA AND DIMENSIONS REFER TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.
4. GRADE ELEVATIONS. WHERE NOTED. ARE ALONG FLOWLINE OF STANDARD CURB UNLESS OTHERWISE SPECIFIED.
5. CONTRACTOR IS TO INSTALL A 4" X 4" X 5' 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.
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10. ANY DAMAGE TO THE EXISTING FACILITIES (CURB & 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. WHEELCHAIR RAMPS SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB & GUTTER.
13. STATIONING AND OFFSETS GIVEN FOR DROP INLETS ARE GIVEN AT CENTER OF GRATE AT FLOWLINE

AS-BUILT INFORMATION

CONTRACTOR WORK STAKED BY SUNDANCE AS, INC
INSPECTOR'S ACCEPTANCE BY MCA DATE 1/99
FIELD VERIFICATION BY AS, INC DATE 99
DRAWINGS CORRECTED BY AS, INC DATE 99

MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

	DATE
ACS ALUMINUM TABLET STAMPED "14-B13" (NAD 1927)	
NM STATE PLANE COORDINATES (CENTRAL ZONE)	
X=375,489.27 Y=1525,104.55 GROUND-TO-GRID FACTOR=	
0.99996705 DELTA ALPHA = -00°14'25" ELEVATION 5169.51'	
USGS BRASS STAMPED "BLACK 2 1997" (NAD 1927)	
NM STATE PLANE COORDINATES (CENTRAL ZONE)	
X=372,920.43 Y=1,530,241.52 GROUND-TO-GRID FACTOR=	
0.99969164. DELTA ALPHA=00°14'43" ELEVATION 5213.33	

ENGINEER'S SEAL SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

JAMES D. TOPMILLER NEW MEXICO 9354 REGISTERED PROFESSIONAL ENGINEER
3-10-99

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY CMG/JCA DATE 02/99
DRAWN BY PEG/JAO/GGG DATE 02/99
CHECKED BY JCA DATE 02/99

Bohannan ▲ Huston
Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109
ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

COTTONWOOD HILLS
UTILITY PLAN & PROFILE
CANADA PLACE

DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL
APPROVED MAY - 3 1999 DESIGN REVIEW COMMITTEE
LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR.

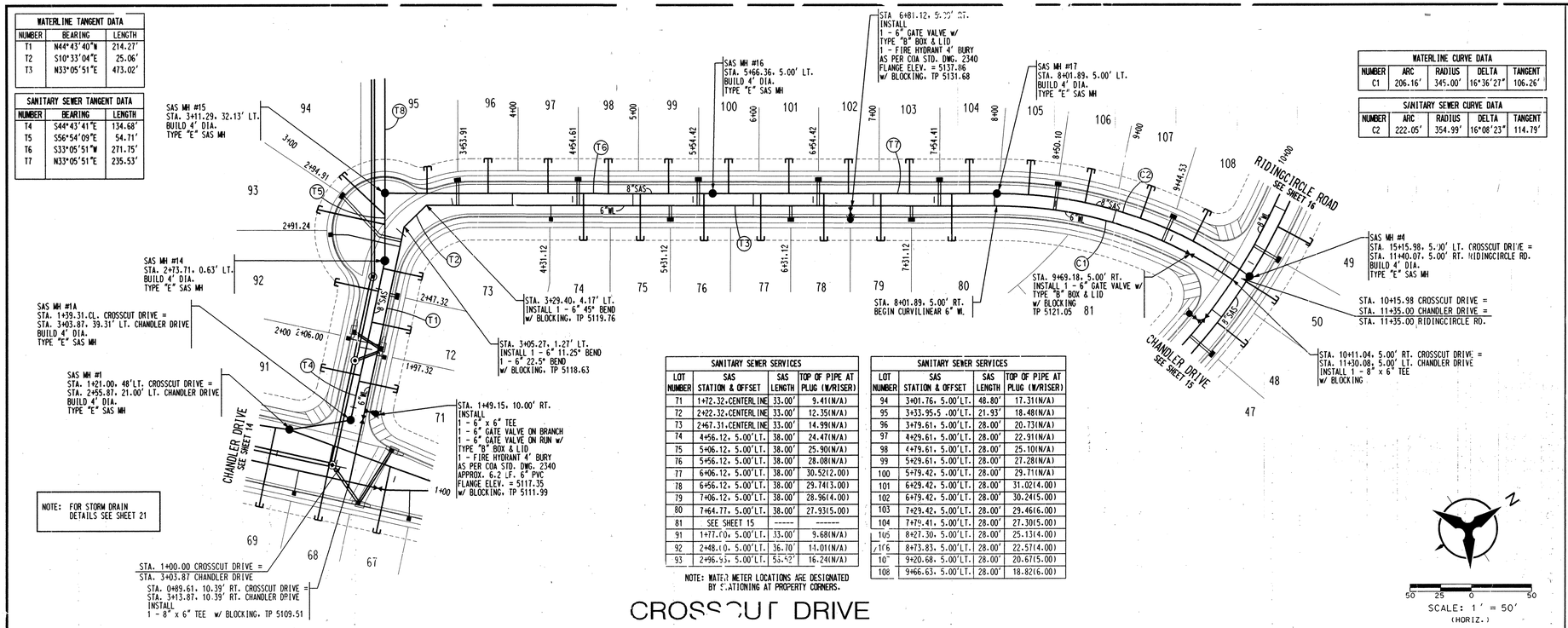
CITY PROJECT NO. 6092.81 | ZONE MAP NO. A-13/B-13 | SHEET 17 OF 24

P:\A01_BHIMAIN\PROJNO\CDP\PNP\UNIT 1\ 99413UPNP04.DGN

BHI JOB NO. 99413A02

WATERLINE TANGENT DATA		
NUMBER	BEARING	LENGTH
T1	N44°43'40"W	214.27'
T2	S10°33'04"E	25.06'
T3	N33°05'51"E	473.02'

SANITARY SEWER TANGENT DATA		
NUMBER	BEARING	LENGTH
T4	S44°43'41"E	134.68'
T5	S56°54'09"E	54.71'
T6	S33°05'51"W	271.75'
T7	N33°05'51"E	235.53'



SANITARY SEWER SERVICES			
LOT NUMBER	SAS STATION & OFFSET	SAS LENGTH	TOP OF PIPE AT PLUG (W/RISER)
71	1+72.32.CENTERLINE	33.00'	9.41(N/A)
72	2+22.32.CENTERLINE	33.00'	12.35(N/A)
73	2+67.31.CENTERLINE	33.00'	14.99(N/A)
74	4+56.12. 5.00'LT.	38.00'	24.47(N/A)
75	5+06.12. 5.00'LT.	38.00'	25.90(N/A)
76	5+56.12. 5.00'LT.	38.00'	28.08(N/A)
77	6+06.12. 5.00'LT.	38.00'	30.52(2.00)
78	6+56.12. 5.00'LT.	38.00'	29.74(3.00)
79	7+06.12. 5.00'LT.	38.00'	28.96(4.00)
80	7+64.77. 5.00'LT.	38.00'	27.93(5.00)
81	SEE SHEET 15	-----	------
91	1+77.00. 5.00'LT.	33.00'	9.68(N/A)
92	2+48.10. 5.00'LT.	36.70'	14.01(N/A)
93	2+96.93. 5.00'LT.	53.42'	16.24(N/A)

SANITARY SEWER SERVICES			
LOT NUMBER	SAS STATION & OFFSET	SAS LENGTH	TOP OF PIPE AT PLUG (W/RISER)
94	3+01.76. 5.00'LT.	48.80'	17.31(N/A)
95	3+33.95.5 .00'LT.	21.93'	18.48(N/A)
96	3+79.61. 5.00'LT.	28.00'	20.73(N/A)
97	4+29.61. 5.00'LT.	28.00'	22.91(N/A)
98	4+79.61. 5.00'LT.	28.00'	25.10(N/A)
99	5+29.61. 5.00'LT.	28.00'	27.28(N/A)
100	5+79.42. 5.00'LT.	28.00'	29.71(N/A)
101	6+29.42. 5.00'LT.	28.00'	31.02(4.00)
102	6+79.42. 5.00'LT.	28.00'	30.24(5.00)
103	7+29.42. 5.00'LT.	28.00'	29.46(6.00)
104	7+79.41. 5.00'LT.	28.00'	27.30(5.00)
105	8+27.30. 5.00'LT.	28.00'	25.13(4.00)
106	8+73.83. 5.00'LT.	28.00'	22.57(4.00)
107	9+20.68. 5.00'LT.	28.00'	20.67(5.00)
108	9+66.63. 5.00'LT.	28.00'	18.82(6.00)

NOTE: WATER METER LOCATIONS ARE DESIGNATED BY STATIONING AT PROPERTY CORNERS.

WATERLINE CURVE DATA				
NUMBER	ARC	RADIUS	DELTA	TANGENT
C1	206.16'	345.00'	16°36'27"	106.26'

SANITARY SEWER CURVE DATA				
NUMBER	ARC	RADIUS	DELTA	TANGENT
C2	222.05'	354.99'	16°08'23"	114.79'

NOTES

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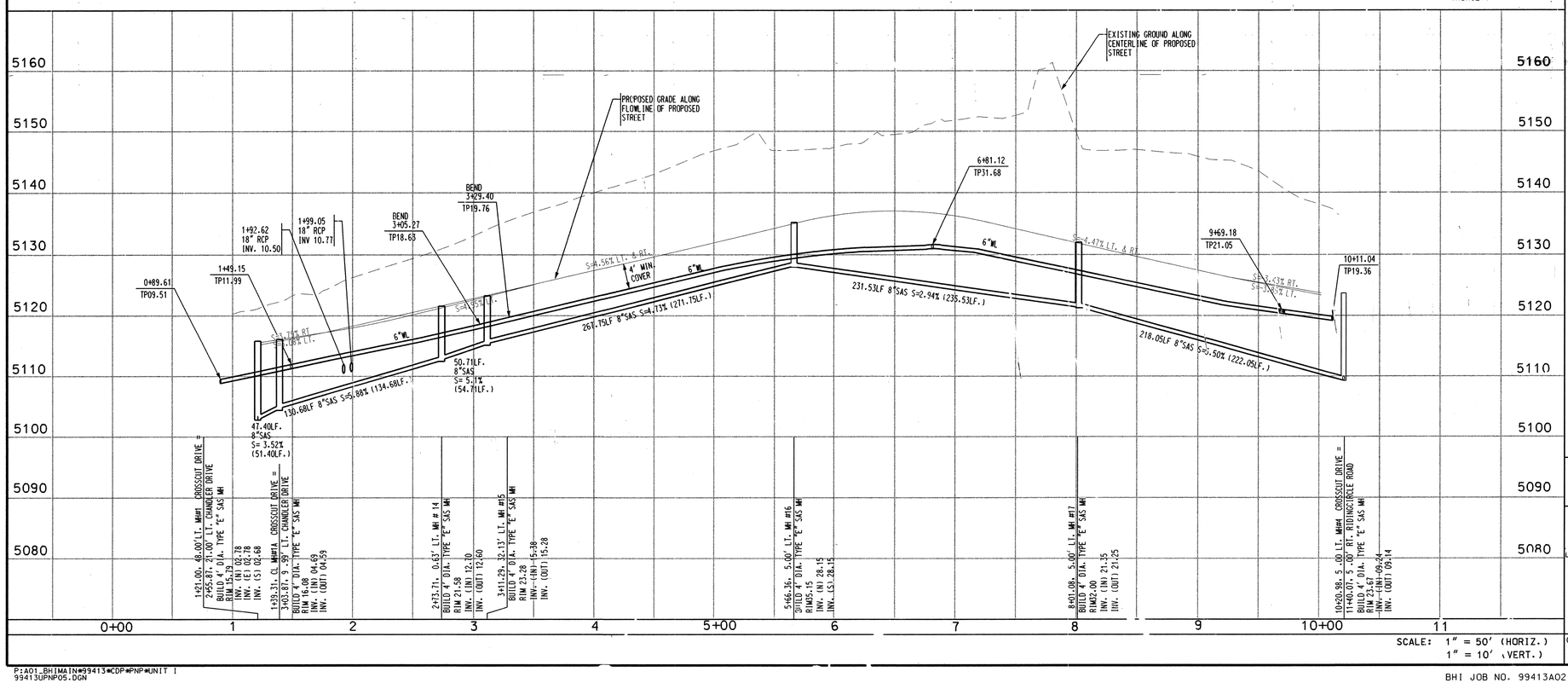
2. ALL CURB RETURN RADII SHALL BE 25' UNLESS OTHERWISE SPECIFIED.
3. ALL CURVE DATA AND DIMENSIONS REFER TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.
4. GRADE ELEVATIONS, WHERE NOTED, ARE ALONG FLOWLINE OF STANDARD CURB UNLESS OTHERWISE SPECIFIED.
5. CONTRACTOR IS TO INSTALL A 4" X 4" X 5' POST AND END AT THE END OF EACH SANITARY SEWER SERVICE.
6. CONTRACTOR IS RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ALL UTILITY CONDUITS AND EXISTING LINES.
7. ANY ADDITIONAL GRADING REQUIRED TO MATCH PROPOSED STREET GRADES SHALL BE INCIDENTAL TO PAVING ITEMS.
8. CONTRACTOR SHALL PROVIDE THE INSPECTORS, (CITY AND PRIVATE) WITH THE PROPOSED HYDROSTATIC TESTING PLAN. THE PLAN MUST BE APPROVED BEFORE TESTING OPERATIONS BEGIN.
9. CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF RESIDENTS OR OTHER CONTRACTORS ON SITE.
10. ANY DAMAGE TO THE EXISTING FACILITIES (CURB & 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. WHEELCHAIR RAMPS SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB & GUTTER.
13. STATIONING AND OFFSETS GIVEN FOR DROP INLETS ARE GIVEN AT CENTER OF GRATE AT FLOWLINE



AS-BUILT INFORMATION		
CONTRACTOR	SUNDANCE	
WORK STAKED BY	ACS, INC	DATE 11/99
ACCEPTANCE BY	WGA	DATE 12/99
FIELD VERIFICATION BY	ACS, INC	DATE 1/00
DRAWINGS CORRECTED BY	ACS, INC	DATE 1/00
MICRO-FILM INFORMATION		
RECORDED BY		DATE
NO.		

BENCH MARKS		
ACS ALUMINUM TABLET STAMPED "4-B13" (NAD 1927)		
NM STATE PLANE COORDINATES (CENTRAL ZONE)		
X=375,489.27 Y=1525.104.55 GROUND-TO-GRID FACTOR= 0.9996705 DELTA ALPHA = -00°14'25" ELEVATION 5169.51'		
USGS BRASS STAMPED "BLACK 2 1997" (NAS 1927)		
NM STATE PLANE COORDINATES (CENTRAL ZONE)		
X=372,920.43 Y=1.530.241.52 GROUND-TO-GRID FACTOR= 0.999669164. DELTA ALPHA=00°14'43" ELEVATION 5213.93		

FIELD NOTES		
NO.	BY	DATE

ENGINEER'S SEAL

THOMAS R. TOPMILLER
NEW MEXICO
9354
REGISTERED PROFESSIONAL ENGINEER
3-10-99

REVISIONS		
NO.	BY	DATE
DESIGN		
REMARKS		

DESIGNED BY	CMG/JCA	DATE 02/99
DRAWN BY	PEG/JAO/GGG	DATE 02/99
CHECKED BY	JCA	DATE 02/99

Bohannan ▲ Huston

Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109

ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

COTTONWOOD HILLS
UTILITY PLAN & PROFILE
CROSSCUT DRIVE

DESIGN REVIEW COMMITTEE APPROVED MAY - 3 1999 DESIGN REVIEW COMMITTEE

CITY ENGINEER APPROVAL

LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.

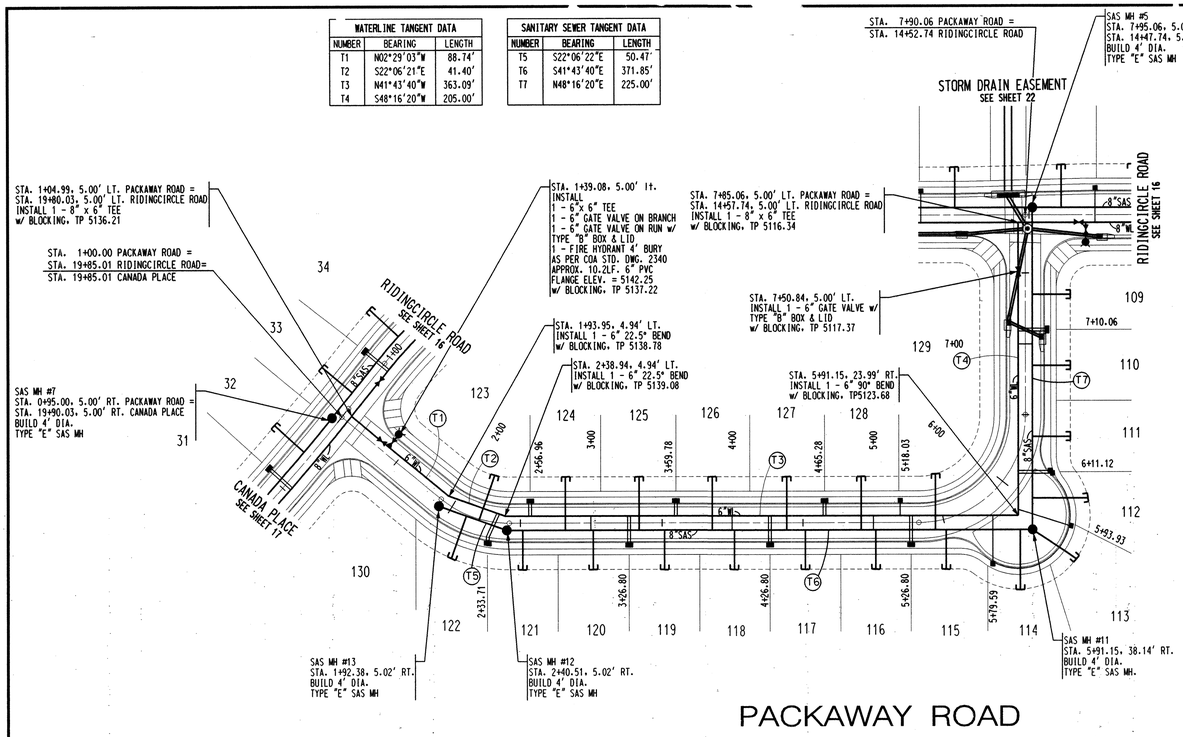
CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
6092.81	A-13/B-13	18	24

P:A01_BHIMAIN#99413#CDP#PNP#UNIT I
99413UPNPO5.DGN

BHI JOB NO. 99413A02

WATERLINE TANGENT DATA		
NUMBER	BEARING	LENGTH
T1	N02°29'03"W	88.74'
T2	S22°06'21"E	41.40'
T3	N41°43'40"W	363.09'
T4	S48°16'20"W	205.00'

SANITARY SEWER TANGENT DATA		
NUMBER	BEARING	LENGTH
T5	S22°06'22"E	50.47'
T6	S41°43'40"E	371.85'
T7	N48°16'20"E	225.00'



SANITARY SEWER SERVICES			
LOT NUMBER	SAS STATION & OFFSET	SAS LENGTH	TOP OF PIPE AT PLUG (W/RISER)
109	7+35.06, 5.00'RT.	27.00'	16.74(N/A)
110	6+85.06, 5.00'RT.	27.00'	18.82(N/A)
111	6+36.15, 6.39'RT.	27.00'	20.85(N/A)
112	6+03.01,23.81'RT.	39.57'	22.48(N/A)
113	5+91.15,38.14'RT.	41.27'	22.93(N/A)
114	5+86.98,32.33'RT.	40.98'	25.46(N/A)
115	5+50.22, 7.35'RT.	27.00'	26.02(N/A)
116	5+01.80, 5.00'RT.	27.00'	27.51(N/A)
117	4+51.80, 5.00'RT.	27.00'	29.04(N/A)
118	4+01.80, 5.00'RT.	27.00'	30.57(N/A)
119	3+51.80, 5.00'RT.	27.00'	33.45(2.00)
120	3+01.80, 5.00'RT.	27.00'	35.66(3.00)
121	2+51.80, 5.00'RT.	27.00'	36.51(2.00)
122	2+11.80, 1.08'RT.	30.96'	37.38(N/A)
123	2+20.84, 1.07'RT.	27.00'	37.17(N/A)
124	2+81.96, 5.00'RT.	37.00'	35.99(2.00)
125	3+33.78, 5.00'RT.	37.00'	34.40(2.00)
126	3+85.78, 5.00'RT.	37.00'	32.13(1.00)
127	4+38.53, 5.00'RT.	37.00'	31.88(3.00)
128	4+91.28, 5.00'RT.	37.00'	29.59(2.00)
129	5+43.22, 5.86'RT.	38.64'	26.70(N/A)
130	SEE SHEET 16	-----	-------

NOTE: WATER METER LOCATIONS ARE DESIGNATED BY STATIONING AT PROPERTY CORNERS.

NOTES

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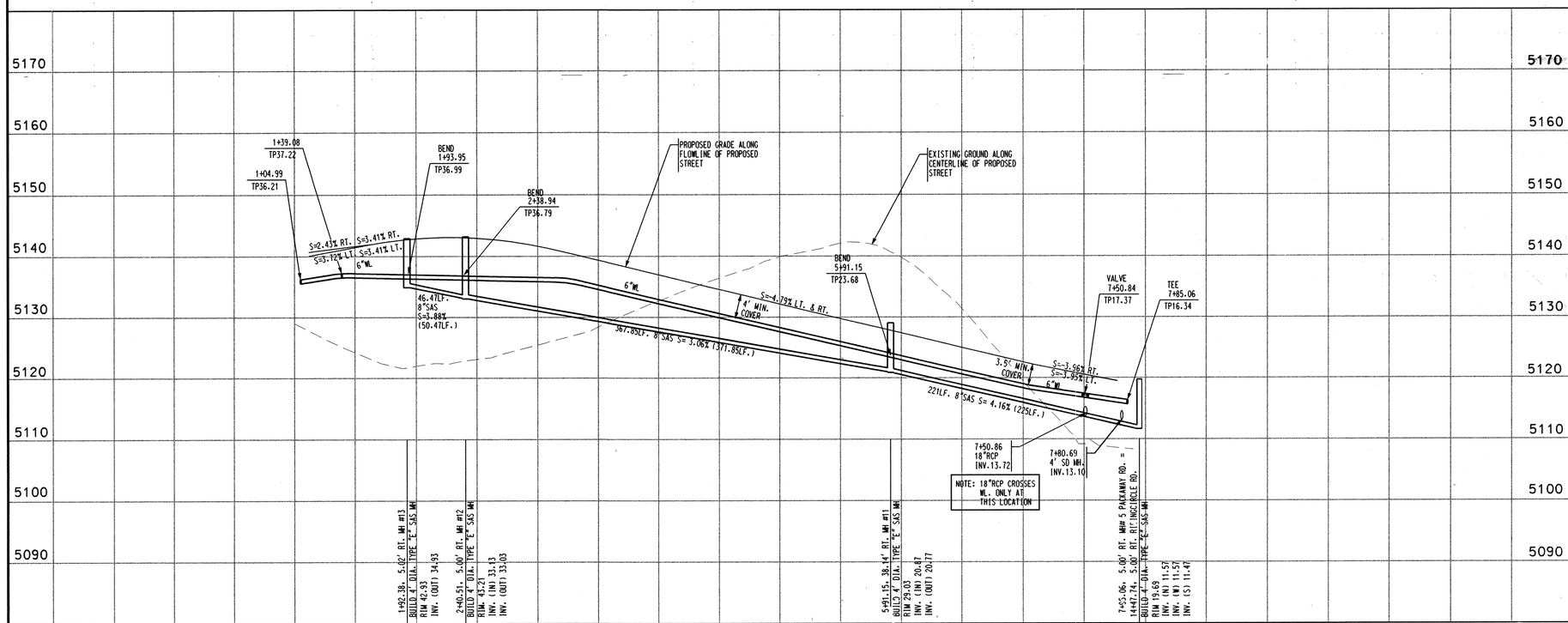
13. STATIONING AND OFFSETS GIVEN FOR DROP INLETS ARE GIVEN AT CENTER OF GRATE AT FLOWLINE

SCALE: 1" = 50' (HORIZ.)



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

BENCH MARKS	
ACS ALUMINUM TABLET STAMPED "4-B17" (NAD 1927)	
NM STATE PLANE COORDINATES (CENTRAL ZONE)	
X=375,489.27 Y=1525.104.55 GROUND-TO-GRID FACTOR=	
0.9996705 DELTA ALPHA = -00°14'25" ELEVATION 5169.51'	
USGS BRASS STAMPED "BLACK 2 1997" (NAS 1927)	
NM STATE PLANE COORDINATES (CENTRAL ZONE)	
X=372,420.43 Y=1,530,241.52 GROUND-TO-GRID FACTOR=	
0.9996916A. DELTA ALPHA-00°14'43" ELEVATION 5213.93	

AS-BUILT INFORMATION

CONTRACTOR SUNDANCE
WORK STAKED BY ALS, INC DATE 11/99
AS-BUILTS CHECKED BY MCA DATE 11/99
ACCEPTANCE BY: ALS, INC DATE 11/99
FIELD VERIFICATION BY: ALS, INC DATE 11/99
DRAWINGS CORRECTED BY: ALS, INC DATE 11/99

MICRO-FILM INFORMATION

RECORDED BY DATE
NO.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

JAMES P. TOPMILLER NEW MEXICO 9354 REGISTERED PROFESSIONAL ENGINEER
3-10-99

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY CMG/JCA DATE 02/99
DRAWN BY PEG/JAO/GGG DATE 02/99
CHECKED BY JCA DATE 02/99

Bohannan ▲ Huston
Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109
ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

COTTONWOOD HILLS
UTILITY PLAN & PROFILE
PACKAWAY ROAD

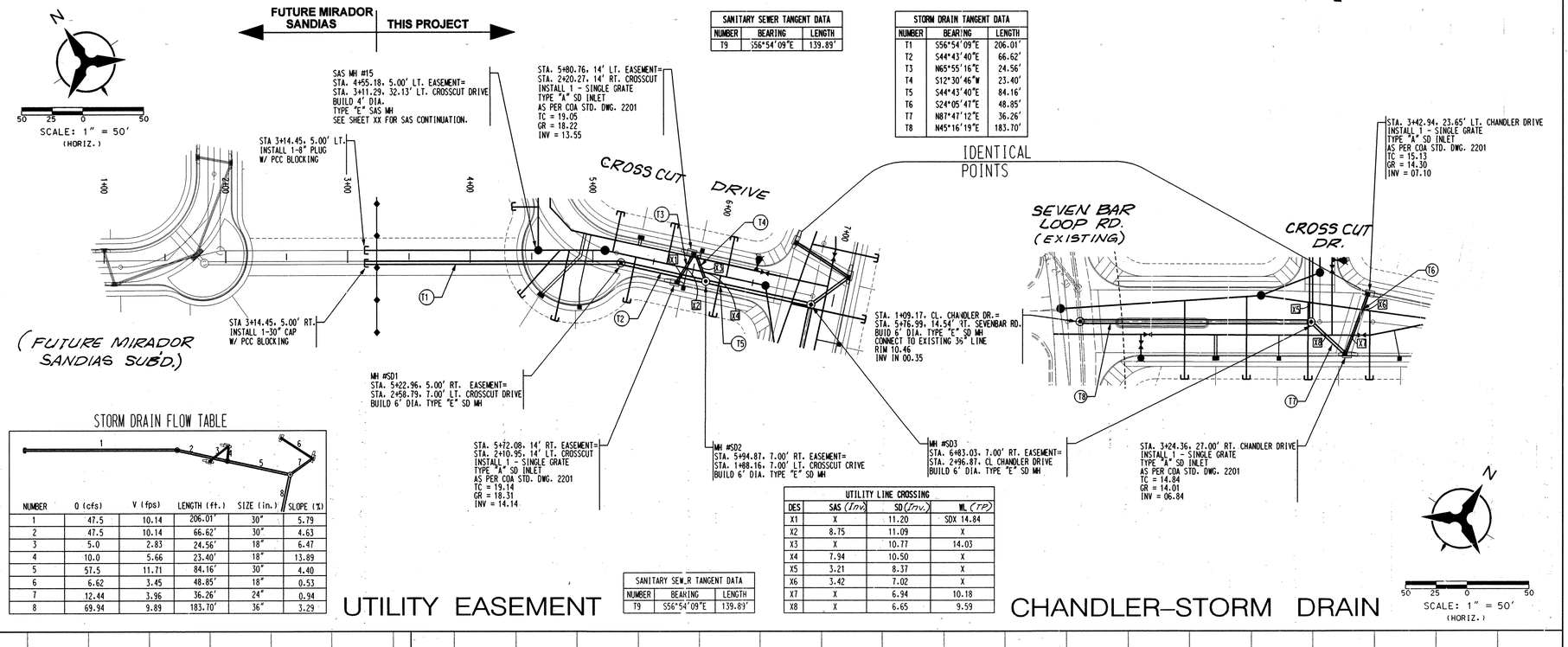
DESIGN REVIEW COMMITTEE: APPROVED MAY - 3 1999 DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL
LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR.

CITY PROJECT NO. 6092.81 | ZONE MAP NO. A-13/B-13 | SHEET 19 OF 24

P:A01_BHIMAIN#99413*CDP*PNP*UNIT1
99413UPNP06.DGN

BHI JOB NO. 99413A02

DATE: FEBRUARY, 1999



SANITARY SEWER TANGENT DATA		
NUMBER	BEARING	LENGTH
T9	S56°54'09"E	139.89'

STORM DRAIN TANGENT DATA		
NUMBER	BEARING	LENGTH
T1	S56°54'09"E	206.01'
T2	S44°43'40"E	66.62'
T3	N65°55'16"E	24.56'
T4	S12°30'46"W	23.40'
T5	S44°43'40"E	84.16'
T6	S24°05'47"E	48.85'
T7	N87°47'12"E	36.26'
T8	N45°16'19"E	183.70'

STORM DRAIN FLOW TABLE

NUMBER	Q (cfs)	V (fps)	LENGTH (ft.)	SIZE (in.)	SLOPE (%)
1	47.5	10.14	206.01'	30"	5.79
2	47.5	10.14	66.62'	30"	4.63
3	5.0	2.83	24.56'	18"	6.47
4	10.0	5.66	23.40'	18"	13.89
5	57.5	11.71	84.16'	30"	4.40
6	6.62	3.45	48.85'	18"	0.53
7	12.44	3.96	36.26'	24"	0.94
8	69.94	9.89	183.70'	36"	3.29

UTILITY EASEMENT

SANITARY SEWER TANGENT DATA		
NUMBER	BEARING	LENGTH
T9	S56°54'09"E	139.89'

UTILITY LINE CROSSING			
DES	SAS (Inv.)	SD (Inv.)	WL (TP)
X1	X	11.20	SDX 14.84
X2	8.75	11.09	X
X3	X	10.77	14.03
X4	7.94	10.50	X
X5	3.21	8.37	X
X6	3.42	7.02	X
X7	X	6.94	10.18
X8	X	6.65	9.59

CHANDLER-STORM DRAIN

NOTES

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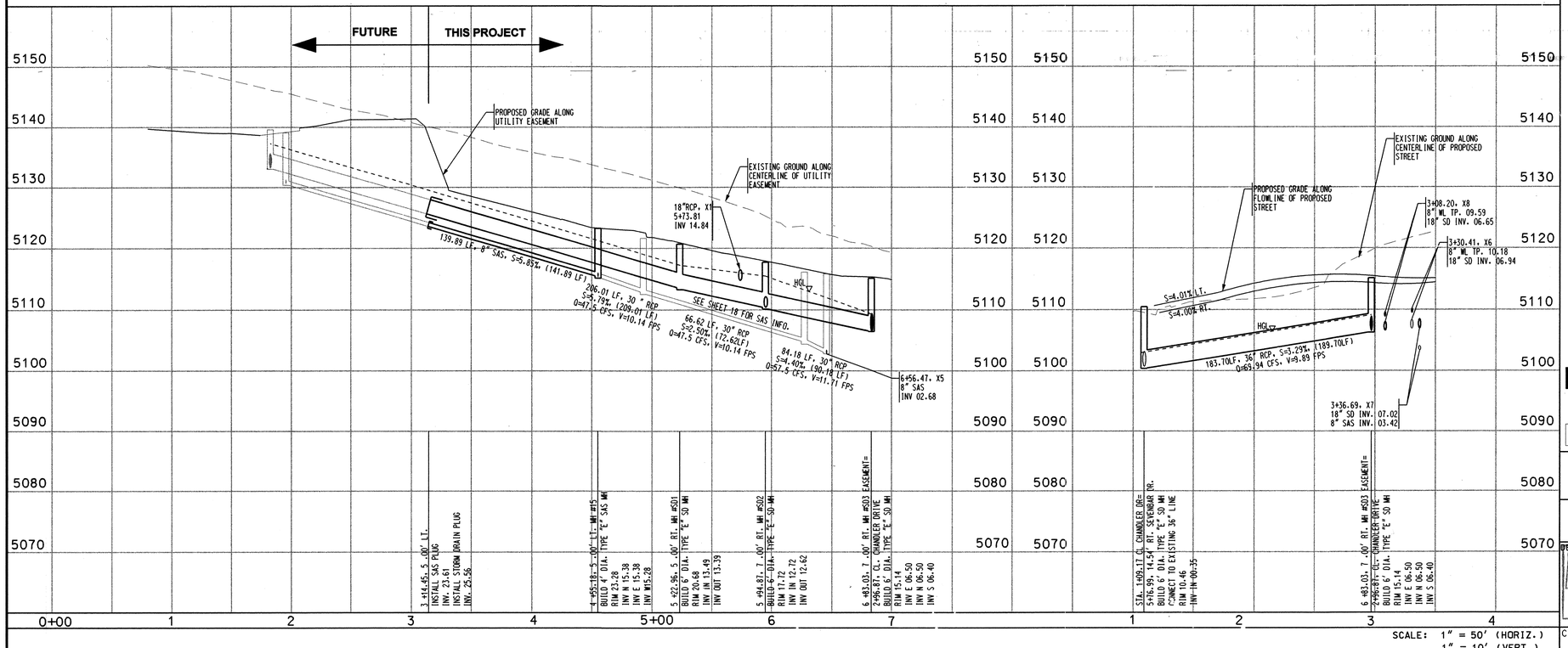
13. STATIONING AND OFFSETS GIVEN FOR DROP INLETS ARE GIVEN AT CENTER OF GRATE AT FLOWLINE



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

AS-BUILT INFORMATION

CONTRACTOR	SUNDANCE
WORK STAKED BY	ALS, INC
ACCEPTANCE BY	MGA DATE 11/99
FIELD LOCATION BY	ALS, INC DATE 99
DRAWINGS CORRECTED BY	ALS, INC DATE 1/99

MICRO-FILM INFORMATION

RECORDED BY	DATE
NO.	

BENCH MARKS

ACS ALUMINUM TABLET STAMPED "4-B13" (NAD 1927)	
NM STATE PLANE COORDINATES (CENTRAL ZONE)	
X=375,493.27 Y=1525,104.55 GROUND-TO-GRID FACTOR=	
0.9996705 DELTA ALPHA = -00°14'25" ELEVATION 5169.51'	
USGS BRASS STAMPED "BLACK 2 1997" (NGS 1927)	
NM STATE PLANE COORDINATES (CENTRAL ZONE)	
X=372,920.43 Y=1,530,241.52 GROUND-TO-GRID FACTOR=	
0.9996916A, DELTA ALPHA=00°14'43" ELEVATION 5213.93	

ENGINEER'S SEAL SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

JAMES R. TOPMILLER
NEW MEXICO
9354
REGISTERED PROFESSIONAL ENGINEER
3-10-99

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY	CMG/JCA	DATE 02/99
DRAWN BY	PEG/JAO/GGG	DATE 02/99
CHECKED BY	JCA	DATE 02/99

Bohannan ▲ Huston
Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109
ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

COTTONWOOD HILLS
UTILITY PLAN & PROFILE
UTILITY EASEMENT & CHANDLER-STORM DRAIN

DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL

APPROVED MAY - 3 1999 DESIGN REVIEW COMMITTEE

LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.

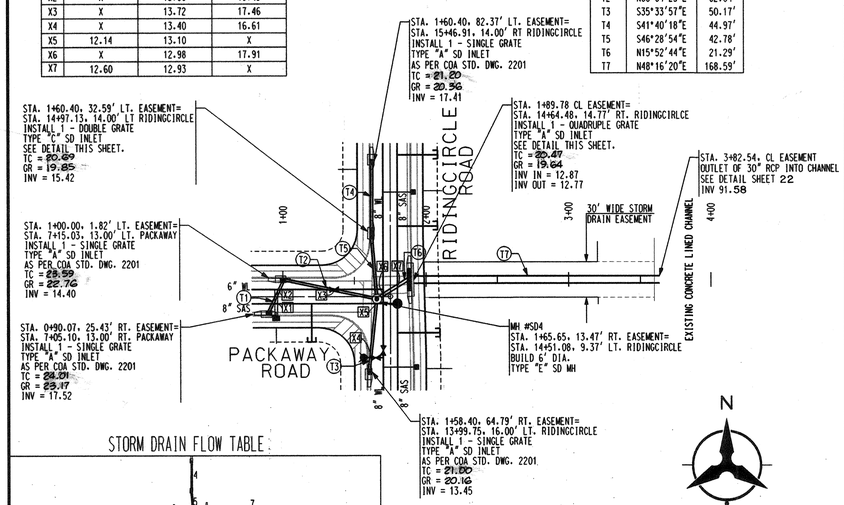
CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
5092.81	A-13/B-13	20	21

P:A01_BHIMAIN*99413*CDP*PNP*
99413EASMNT01.DGN

BHI JOB NO. 99413A02

UTILITY LINE CROSSING			
DES	SAS (TP)	SD (INV)	WL (TP)
X1	16.23	16.82	X
X2	X	15.06	18.45
X3	X	13.72	17.46
X4	X	13.40	16.61
X5	12.14	13.10	X
X6	X	12.98	17.91
X7	12.60	12.93	X

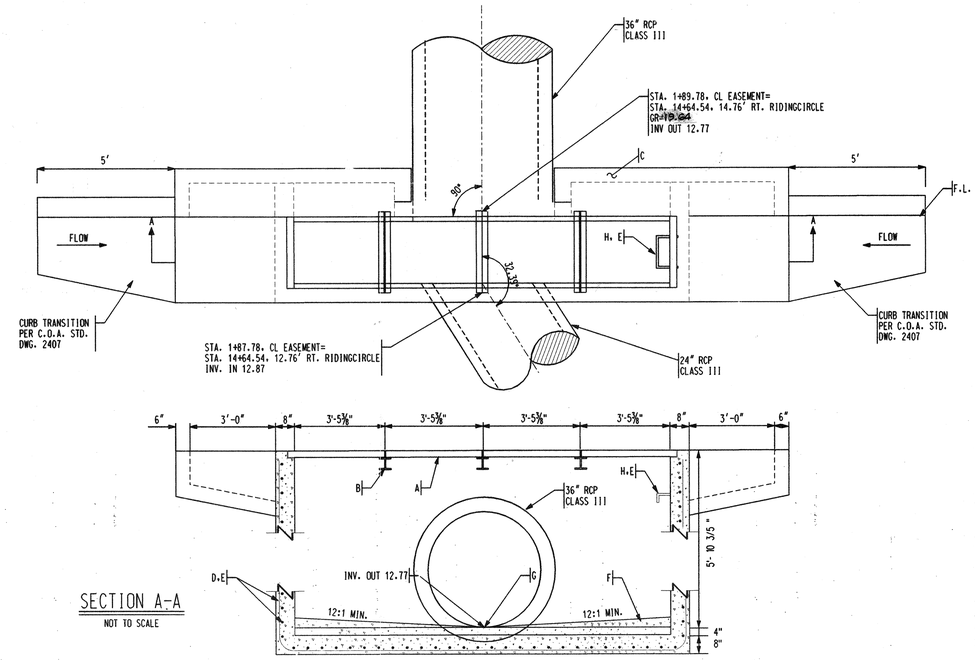
STORM DRAIN TANGENT DATA		
NUMBER	BEARING	LENGTH
T1	S16°25'37"E	23.24'
T2	N60°04'25"E	62.04'
T3	S35°33'57"E	50.17'
T4	S41°40'18"E	44.97'
T5	S46°28'54"E	42.78'
T6	N15°52'44"E	21.29'
T7	N48°16'20"E	168.59'



STORM DRAIN FLOW TABLE

NUMBER	Q (cfs)	V (fps)	LENGTH (ft.)	SIZE (in.)	SLOPE (%)
1	4.0	2.26	23.24'	18"	13.42
2	8.0	4.52	63.27'	18"	2.21
3	2.9	1.64	50.27'	18"	0.70
4	7.6	4.30	44.97'	18"	4.11
5	10.5	10.24	42.78'	18"	6.12
6	21.4	6.81	22.02'	24"	0.60
7	59.9	4.91	193.50'	36"	11.08

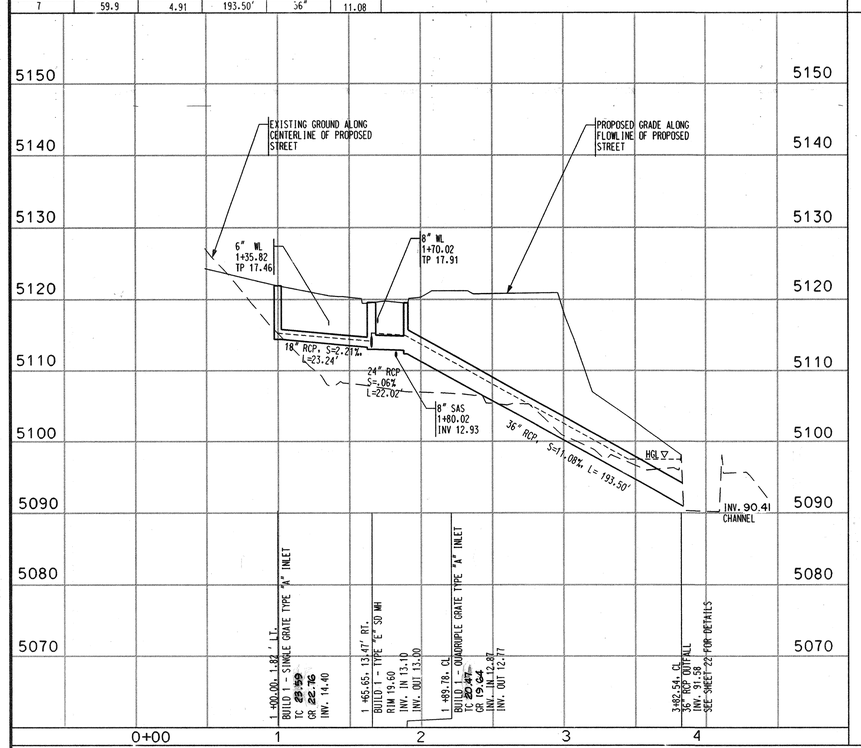
STORM DRAIN EASEMENT

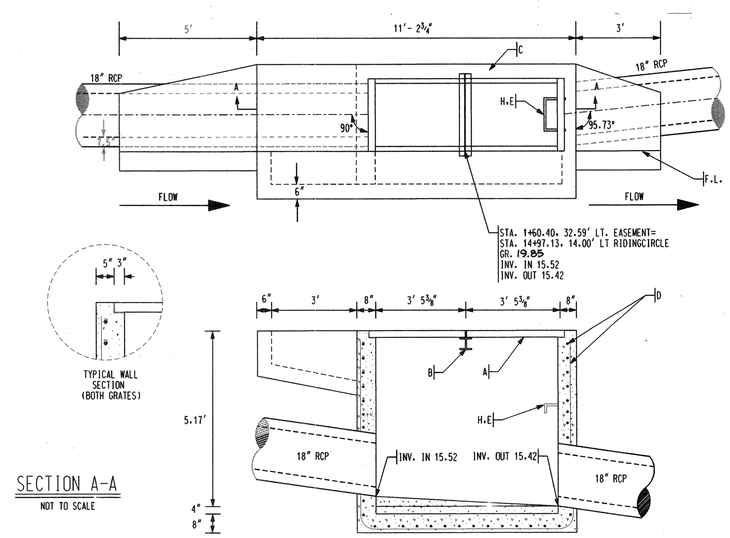


SECTION A-A

NOT TO SCALE

MODIFIED QUADRUPLE GRATE TYPE "A" DETAIL





SECTION A-A

NOT TO SCALE

MODIFIED DOUBLE GRATE TYPE "A" INLET DETAIL

GENERAL NOTES:

CONSTRUCT VAULT WALL AS DIMENSIONED ON THE DETAILS PER THIS SHEET. DIMENSIONS AND REINFORCEMENT NOT SHOWN ON THIS SHEET SHALL BE TAKEND FROM THE C.O.A. STD. DWG 2201 AND 2202.

CONSTRUCTION NOTES:

A. FRAME AND GRATE

B. CENTER SUPPORT ASSEMBLY

C. CUT HORIZONTAL AND VERTICAL BAR MAX. AT PIPE OPENING. (SEE SECTION B-B AND C-C ON COA STD DWG 2202).

D. NO. 4 BARS AT 6" O. C. EACH WAY

E. USE STANDARD STEP. SEE COA STD. DWG 2229

F. CONC. FILL. SEE NOT C. DWG 2201

G. INVERT PER DESIGN

H. INSTALL STEPS ON DOWNSTREAM FACE

I. STATIONING AND OFFSETS GIVEN FOR DROP INLETS ARE GIVEN AT CENTER OF GRATE ASSEMBLE AT FLOW LINE

AS-BUILT INFORMATION

CONTRACTOR SUNDANCE DATE 11/99
WORK STAKED BY MGA DATE 11/99
FIELD VERIFICATION BY ALS, INC DATE 2/99
ACCEPTANCE BY ALS, INC DATE 2/99
DRAWINGS CORRECTED BY ALS, INC DATE 2/99
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

ACS ALUM/NUN TABLET STAMPED "4+815" (NAD 1927)
NM STATE PLANE COORDINATES (CENTRAL ZONE)
X=375,489.27 Y=1525,104.55 GROUND-TO-GRID FACTOR= 0.999705 DELTA ALPHA = -00°14'25" ELEVATION 5169.51'

USGS BRASS STAMPED "BLACK 2 1997" (NAS 1927)
NM STATE PLANE COORDINATES (CENTRAL ZONE)
X=372,920.43 Y=1,530,241.52 GROUND-TO-GRID FACTOR= 0.999659164. DELTA ALPHA=00°14'43" ELEVATION 5213.93

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

JAMES R. TOPMILLER
NEW MEXICO
9354
REGISTERED PROFESSIONAL ENGINEER
3.10.99

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY CMG/JCA DATE 02/99
DRAWN BY PEG/JAO/GGG DATE 02/99
CHECKED BY JCA DATE 02/99

AMAFCA APPROVAL
BY DATE 3-11-99

Bohannan ▲ Huston
Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109
ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

COTTONWOOD HILLS
UTILITY PLAN & PROFILE
STORM DRAIN EASEMENT & DETAILS

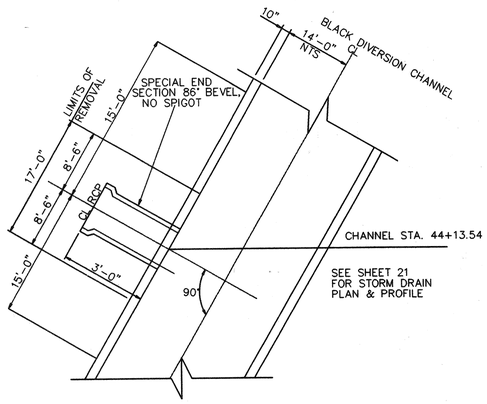
DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL | LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR.
APPROVED MAY - 3 1999 DESIGN REVIEW COMMITTEE

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

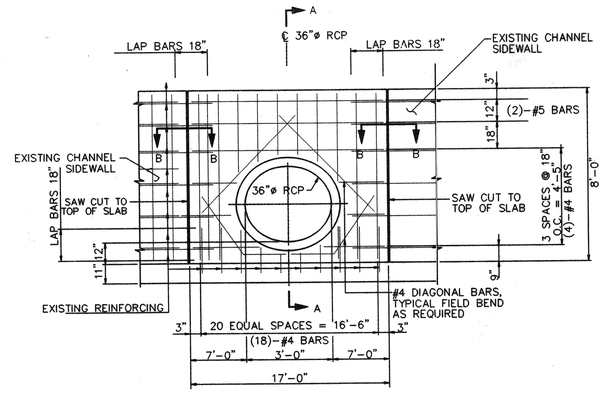
CITY PROJECT NO. 6092.81 | ZONE MAP NO. A-13/3-13 | SHEET 21 OF 24

P:A01_BHIMAIN#PROJNO#CDP#PNP#
973106PPNPNN.DGN

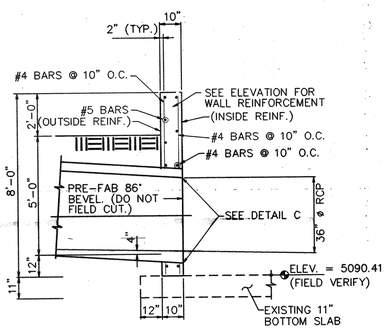
BHI JOB NO. 99413A02



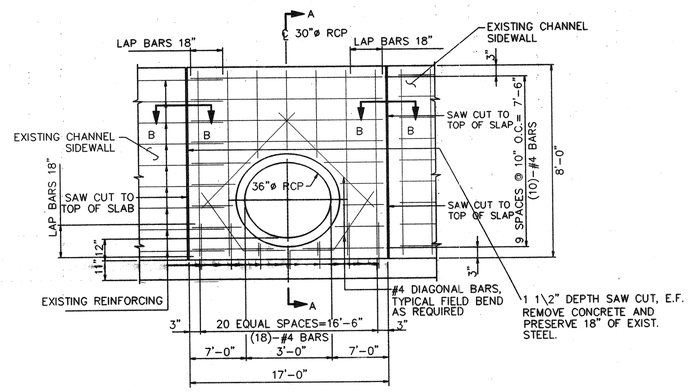
PLAN VIEW
NO SCALE



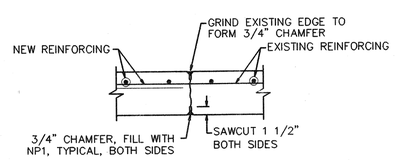
ELEVATION (OUTSIDE REINFORCING)
NOT-TO-SCALE



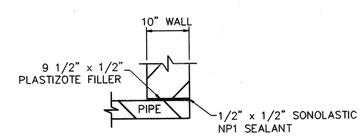
SECTION A-A
NOT-TO-SCALE



ELEVATION (INSIDE REINFORCING)
NOT-TO-SCALE



CONSTRUCTION JOINT SECTION B-B
NOT-TO-SCALE



RCP @ WALL JOINT DETAIL DETAIL C
NOT-TO-SCALE

NOTES:

1. MATERIALS:
   CONCRETE FOR HYDRAULIC STRUCTURES
   REF. SPEC. TABLE 101-C
   1c = 4000 PSI
   REINFORCING: ASTM A516. GRADE 60.
2. WORK SHALL BE DONE BETWEEN THE MONTHS OF SEPTEMBER THRU JUNE 15.
3. CONTRACTOR SHALL CONTACT:
   MR. JOHN KELLY
   AMAFCA
   (505) 884-2215
   PRIOR TO CONCRETE PLACEMENT FOR INSPECTION OF FORMS AND STEEL.
4. DISTURBED SUBGRADE SHALL BE RECOMPACTED TO 100% MOD. PROCTOR DENSITY AS DETERMINED BY ASTM D1557.
5. CONTRACTOR SHALL CLEAN ALL CONSTRUCTION DEBRIS FROM AREA.
6. SEE GRADING PLAN FOR FINISHED GRADE.
7. SEE SHEET 21 FOR ALIGNMENT OF 36" RCP.
8. CONTRACTOR SHALL VERIFY INVERT ELEVATION SHOWN IN SECTION A-A.

CONSTRUCTION NOTES:

1. EXCAVATE BACK SIDE OF WALL TO LIMITS SHOWN IN PLAN.
2. SAW CUT EXISTING CHANNEL WALL IN LOCATION SHOWN 1 1/2" DEEP ON BOTH SIDE AND TOP.
3. REMOVE CONCRETE OF EXISTING WALL FROM TOP OF SLAB TO TOP OF WALL AND FROM SAW CUT EDGES. SEE PLAN FOR LIMITS OF REMOVAL.
4. BREAK OUT EXISTING CONCRETE ADJACENT TO SAW CUT AND BOTTOM SLAB USING A 30# CHIPPING HAMMER TO AVOID DAMAGE TO REMAINING CONCRETE.
5. PRESERVE 18" OF EXISTING HORIZONTAL WALL REINFORCING AND VERTICAL DOWELS IN BOTTOM SLAB.
6. TIE STEEL AND INSTALL JOINTS AS SHOWN IN DETAILS.
7. MATCH FORM LINERS, COLOR AND FINISH OF EXISTING CONCRETE.
8. BACKFILL OUTSIDE OF CHANNEL TO ORIGINAL GRADE AFTER CONCRETE HAS GAINED 80% OF DESIGN STRENGTH.
9. RCP END SECTION SHALL HAVE PRE-FABRICATED 86° BEVEL. DO NOT FIELD CUT.

AMAFCA APPROVAL
BY 3-11-99 DATE

Bohannan ▲ Huston
Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109
ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

AS-BUILT INFORMATION
CONTRACTOR Sundance DATE 99
REVIEWED BY ALS, INC DATE 99
INSPECTOR'S AS-BUILT MARK BY MGA DATE 11/99
FIELD VERIFICATION BY ALS, INC DATE 99
DRAWINGS CORRECTED BY ALS, INC DATE 11/99
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
DAVID M. NEAL REGISTERED PROFESSIONAL ENGINEER (10016) 3-11-99

No.	Date	REMARKS	By
		REVISIONS	
		DESIGN	

Designed By: JCA DATE: 2/99
Drawn By: NEF DATE: 2/99
Checked By: JCA DATE: 2/99

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

COTTONWOOD HILLS
STORM DRAIN OUTLET DETAILS

Design Review Committee: APPROVED MAY - 3 1999 DESIGN REVIEW COMMITTEE
City Engineer Approval
Last Design Update | Mo./Day/Yr. | Mo./Day/Yr.

City Project No. 60928 ~~603581~~ | Zone Map No. A13\313 | Sheet 22 of 24

BHI JOB NO. 99413\CDP\GENERAL\99413SDOUTLET.DWG

P:99413\CDP\GENERAL\99413SDOUTLET.DWG

CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

1. CONTRACTOR MUST OBTAIN FROM CONSTRUCTION COORDINATION AN EXCAVATION/BARRICADING PERMIT BEFORE ENGAGING IN ANY CONSTRUCTION, MAINTENANCE OR REPAIR WORK IN ANY OF THE CITY OF ALBUQUERQUE'S RIGHTS-OF-WAY. EMERGENCY WORK THAT WOULD PRESERVE LIFE OR PROPERTY IS EXCLUDED WITH THE UNDERSTANDING, THAT A PERMIT SHALL BE OBTAINED WITHIN 24 TO 48 HOURS.

2. CONTRACTOR SHALL AT THE TIME OF PERMIT REQUEST, SUBMIT FOR APPROVAL BY CONSTRUCTION COORDINATION, A TRAFFIC CONTROL PLAN DETAILING ALL EXISTING TOPOGRAPHY SUCH AS LANE WIDTHS, DRIVEWAYS, AND BUSINESS/RESIDENTIAL ACCESSES. THE TRAFFIC CONTROL PLAN SHALL INCLUDE ALL PHASES OF WORK AND SCHEDULES INVOLVED IN THE CONSTRUCTION PROJECT. ANY SEPARATE PHASES OF A CONSTRUCTION PROJECT SHALL BE GIVEN AN INDIVIDUAL PERMIT EACH. BLANKET PERMITS WILL NOT BE ISSUED.

3. THESE TYPICAL TRAFFIC CONTROL PLANS DO NOT REFLECT THE EXISTING TOPOGRAPHY SUCH AS DRIVEWAYS, LANE WIDTHS, AND BUSINESS/RESIDENTIAL ACCESSES. EVERY LOCATION THAT REQUIRES CONSTRUCTION TRAFFIC CONTROL SHALL HAVE A DETAILED TRAFFIC CONTROL PLAN SHOWING ALL EXISTING TOPOGRAPHY.

4. CONSTRUCTION SHALL NOT BEGIN UNLESS A TRAFFIC CONTROL PLAN HAS BEEN APPROVED AND VERIFIED BY CONSTRUCTION COORDINATION.

5. CONSTRUCTION COORDINATION SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY TRAFFIC CONTROL CHANGES NEEDED BY CONTRACTOR, THAT WERE NOT PREVIOUSLY APPROVED. THESE TRAFFIC CONTROL CHANGES SHALL BE REQUESTED IN WRITING ACCOMPANIED WITH A TRAFFIC CONTROL PLAN REFLECTING SUCH CHANGES.

6. ALL CONSTRUCTION TRAFFIC CONTROL DEVICES SHALL COMPLY TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL, SERVICE AND MAINTAIN ALL TRAFFIC CONTROL DEVICES. TRAFFIC CONTROL DEVICES SHALL NOT BE REMOVED OR ALTERED IN ANY WAY WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION, PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.

7. THE CONSTRUCTION TRAFFIC CONTROL INITIAL SET-UP SHALL BE BY AN AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED WORKSITE TRAFFIC SUPERVISOR. THE MAINTENANCE AND SERVICING SHALL ALSO BE DONE BY AN ATSSA CERTIFIED WORKSITE TRAFFIC SUPERVISOR OR EQUIVALENT.

8. CONTRACTOR IS RESPONSIBLE TO MAINTAIN AND SERVICE ALL TRAFFIC CONTROL DEVICES 24 HOURS A DAY, 7 DAYS A WEEK THROUGHOUT LENGTH OF PROJECT. CONTRACTOR IS RESPONSIBLE THAT ALL TRAFFIC CONTROL DEVICES COMPLY WITH THE MUTCD, LATEST EDITION.

9. ALL ADVANCE WARNING SIGNS SHALL BE DOUBLE INDICATED WHENEVER THERE ARE MULTI-LANE TRAFFIC IN ANY ONE GIVEN DIRECTION AND THERE IS SUFFICIENT MEDIAN SPACE.

10. ALL BARRICADES IN ALL TAPERS AND TANGENTS SHALL BE PLACED APART, A DISTANCE MEASURED IN FEET, EQUAL TO THAT OF THE POSTED SPEED LIMIT. NO EXCEPTIONS UNLESS APPROVED BY CONSTRUCTION COORDINATION PER MUTCD SECTION 6A-4.

11. ALL WORK IN ARTERIAL ROADWAYS SHALL BE ON A CONTINUOUS 24 HOUR PER DAY BASIS UNTIL COMPLETED. (1)

12. CONTRACTOR IS RESPONSIBLE TO PROVIDE CONSTRUCTION COORDINATION, A WEEKLY LOG OF DAILY INSPECTIONS OF BARRICADE AND MAINTENANCE SCHEDULES ON PROJECTS THAT ARE OVER ONE WEEK DURATION.

13. EQUIPMENT OR MATERIALS SHALL NOT BE STORED WITHIN 15 FEET OF A TRAVELLED TRAFFIC LANE DURING NON-WORKING HOURS WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.

14. CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ADEQUATE MEANS OF CHANNELIZING PEDESTRIAN TRAFFIC AROUND AND THROUGH THE CONSTRUCTION AREA.

15. CONTRACTOR IS RESPONSIBLE FOR OBLITERATION OF ANY CONFLICTING STRIPING AND RESPONSIBLE FOR ALL TEMPORARY STRIPING.

16. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FACILITIES, BUSINESSES AND/OR RESIDENTS AT ALL TIMES.

17. CONTRACTOR SHALL PROVIDE ACCESS SIGNS FOR BUSINESSES LOCATED WITHIN THE CONSTRUCTION AREA UNDER THE SUPERVISION OF CONSTRUCTION COORDINATION. EACH ACCESS SIGN SHALL HAVE 5 INCH, WHITE OPAQUE LETTERING ON BLUE REFLECTORIZED BACKGROUND. ACCESS SIGNS SHALL BE CONSIDERED INCIDENTAL TO THE BID AND NOT PART OF THE CONTRACT UNLESS OTHERWISE STATED. NO MORE THAN 3 BUSINESSES SHALL BE LISTED ON A ACCESS SIGN. SHOPPING CENTERS AND MALLS SHALL BE LISTED AS SUCH.

18. ALL ADVANCE WARNING SIGNS SHALL MEET THE MINIMUM REFLECTIVE INTENSITY REQUIREMENTS SET FORTH BY THE CITY OF ALBUQUERQUE. CONSTRUCTION COORDINATION SHALL DETERMINE ALL REQUIREMENTS AND APPROVE OR DISAPPROVE ANY ADVANCE WARNING SIGN PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION. (2)

19. 48 HOURS PRIOR TO OCCUPYING OR CLOSING OF A RIGHT-OF-WAY, CONTRACTOR SHALL NOTIFY: POLICE, FIRE DEPARTMENT, SCHOOLS, HOSPITALS, TRANSIT AUTHORITY, BUSINESSES AND/OR RESIDENTS THAT WILL BE AFFECTED BY THE CONSTRUCTION.

20. ANY FIELD ADJUSTMENTS SHALL BE APPROVED BY CONSTRUCTION COORDINATION.

21. EXCAVATIONS SHALL BE PLATED, TEMPORARILY PATCHED OR RESURFACED PRIOR TO OPENING OF TRAFFIC. A MINIMUM OF 11 FEET SHALL BE PROVIDED FOR TRAFFIC IN ANY GIVEN DIRECTION. CONTRACTOR IS RESPONSIBLE FOR ANY WORK INVOLVED IN SATISFYING THESE REQUIREMENTS.

22. CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE FOLLOWING:
    1. STANDARDS AND REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
    2. THE CITY OF ALBUQUERQUE TRAFFIC CODE, LATEST EDITION.
    3. SECTION 19 OF THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION, AS WELL AS OTHER SECTIONS.

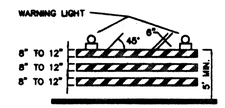
23. FAILURE TO COMPLY WITH ANY OF THE ABOVE MENTIONED, WILL BE ADEQUATE CAUSE TO CEASE ALL WORK ON ANY CONSTRUCTION PROJECT. WORK WILL NOT RESUME UNTIL ALL REQUIREMENTS ARE ADDRESSED AND APPROVED BY CONSTRUCTION COORDINATION.

24. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN NEW-CLEAN CONDITION. WASHING OF EQUIPMENT IS INCIDENTAL TO IT'S PLACEMENT AND MAINTENANCE.

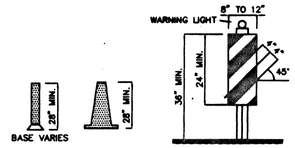
25. TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.

26. ADVANCE WARNING SIGNS SHALL BE 36"x36" MIN. WITH SUPER ENGINEERING GRADE SHEETING OR BETTER. MOUNTING HEIGTH AT TOP OF SIGN SHALL BE THE SAME AS FOR A 48" SIGN AS INDICATED IN THE M.U.T.C.D. (3)

27. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORKSITE. ALL GRAFFITI SHALL BE PROMPTLY REMOVED FROM ALL EQUIPMENT, BOTH PERMANENT AND TEMPORARY. (4)



TYPE III BARRICADE

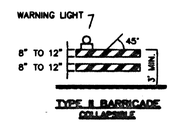


CONES — VERTICAL PANEL — HIGH LEVEL WARNING DEVICE

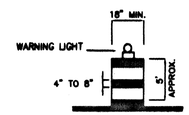
LEGEND

- WORK AREA
- BARRICADE – TYPE I, TYPE II, OR BARREL
- BARRICADE – TYPE III
- X VERTICAL PANEL
- WARNING SIGN
- D DISTANCE BETWEEN SIGNS – A DISTANCE MEASURED IN FEET EQUAL TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET
- FLAGMAN POSITION
- S SPACING BETWEEN BARRICADES– A DISTANCE MEASURED IN FEET EQUAL TO THE SPEED LIMIT OF THE STREET
- L TAPER LENGTH – SEE CHART BELOW

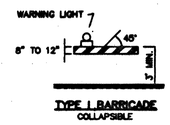
THE TANGENT LENGTH IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET.



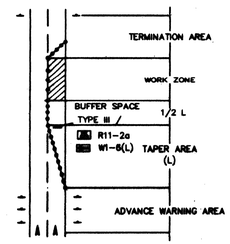
TYPE II BARRICADE COLLAPSIBLE



BARREL



TYPE I BARRICADE COLLAPSIBLE



TRAFFIC CONTROL ELEMENTS

TAPER REQUIREMENTS

SPEED LIMIT (MPH)	TAPER LENGTH (L) (FEET)			MINIMUM NUMBER OF DEVICES FOR TAPER	MAXIMUM DEVICE SPACING IN FEET	
	10' LANE	11' LANE	12' LANE		ALONG TAPER	AFTER TAPER
20	70	75	80	5	20	20
25	105	115	125	6	25	25
30	150	165	180	7	30	30
35	205	225	245	8	35	35
40	270	295	320	9	40	40
45	450	495	540	13	45	45
50	500	550	600	13	50	50
55	550	605	660	13	55	55

RECOMMENDED SIGN SPACING(D) FOR ADVANCE WARNING SIGN SERIES

SPEED MILES PER HOUR	MINIMUM DISTANCE IN FEET BETWEEN SIGNS	FROM LAST SIGN TO TAPER
0-20	10 X SPEED LIMIT	10 X SPEED LIMIT
25-30	10 X SPEED LIMIT	10 X SPEED LIMIT
30-35	10 X SPEED LIMIT	10 X SPEED LIMIT
40-45	10 X SPEED LIMIT	10 X SPEED LIMIT
50-60	10 X SPEED LIMIT	10 X SPEED LIMIT

TAPER CRITERIA

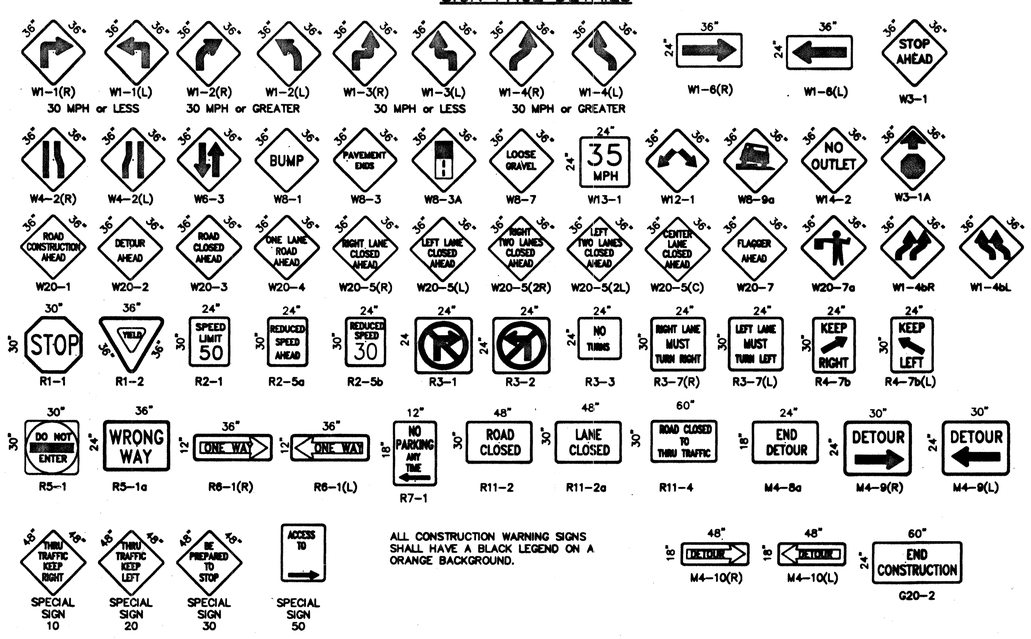
TYPE OF TAPER	TAPER LENGTH
UPSTREAM TAPER:	
MERGING TAPER	L MINIMUM
SHIFTING TAPER	1/2 L MINIMUM
SHOULDER TAPER	1/2 L MINIMUM
TWO-WAY TRAFFIC TAPER	100 FEET MAXIMUM
DOWNSTREAM TAPERS	100 FEET PER LANE

TAPER LENGTH COMPUTATION

SPEED LIMIT	
40 MPH OR LESS	$L = \frac{WS^2}{60}$
45 MPH OR GREATER	$L = W \times S$

L = TAPER LENGTH
W = WIDTH OF OFFSET IN FEET
S = POSTED SPEED OR OFF-PEAK 85-PERCENTILE SPEED IN MPH

SIGN FACE DETAILS



ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON A ORANGE BACKGROUND.

CTCSTND1.DWG

AS BUILT INFORMATION
CONTRACTOR SUNDANCE DATE 99
INSP. BY A.S., INC. DATE 99
FIELD BY MCA DATE 11/94
DRAWN BY A.S., INC. DATE 99
REVIEWED BY A.S., INC. DATE 99
MICRO-FILM INFORMATION
RECORDED BY DATE
SIG.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
RICHARD B. ROYAL NEW MEXICO REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
4	9/25/91	ADD NOTE NO. 27	J.D.L.
3	9/24/97	REVISED NOTE NO. 26	J.D.L.
2	9/24/97	REVISED NOTE NO. 19	J.D.L.
1	9/24/97	REVISED NOTE NO. 11	J.D.L.

REVISIONS
DESIGN

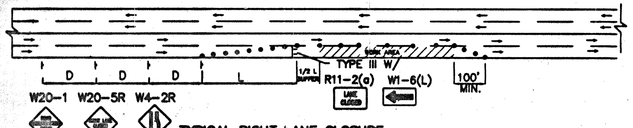
DESIGNED BY DATE
DRAWN BY C.O.A. STANDARDS DATE
CHECKED BY DATE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

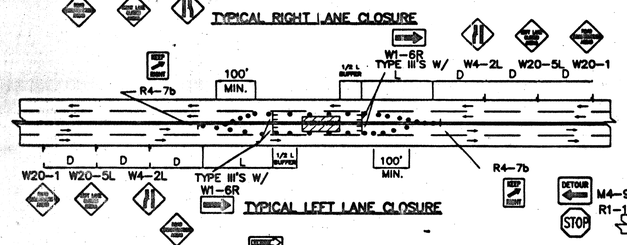
TITLE: SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS

DESIGN REVIEW COMMITEE: CDA Standard
CITY ENGINEER APPROVAL
LAST UPDATE: MO./DAY/YR. MO./DAY/YR.

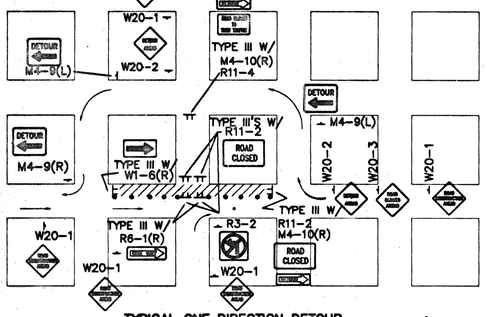
PROJECT NO. 609281 | MAP NO. | SHEET 23 OF 24



TYPICAL RIGHT LANE CLOSURE

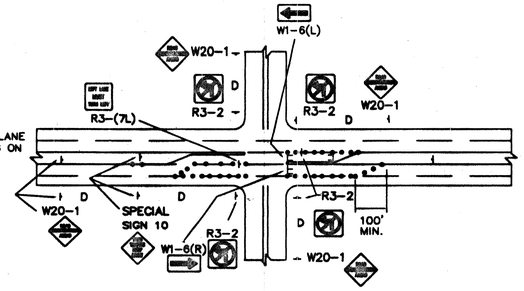


TYPICAL LEFT LANE CLOSURE



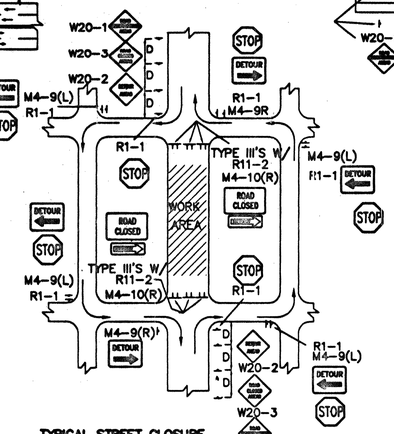
TYPICAL ONE DIRECTION DETOUR

NOTE: MAY REQUIRE LEFT LANE CLOSURE DEPENDING ON FIELD CONDITIONS.



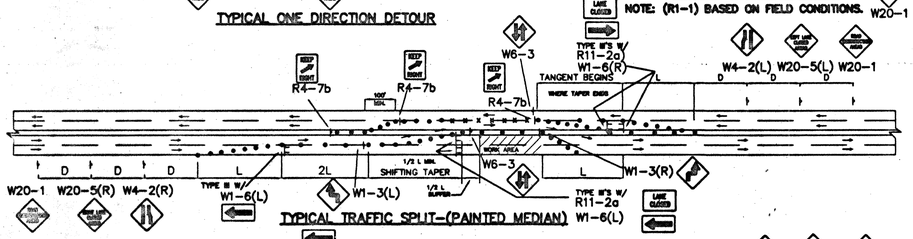
TYPICAL LANE CLOSURE AT INTERSECTION

NOTE: DEPENDING ON WORK ZONE LOCATION

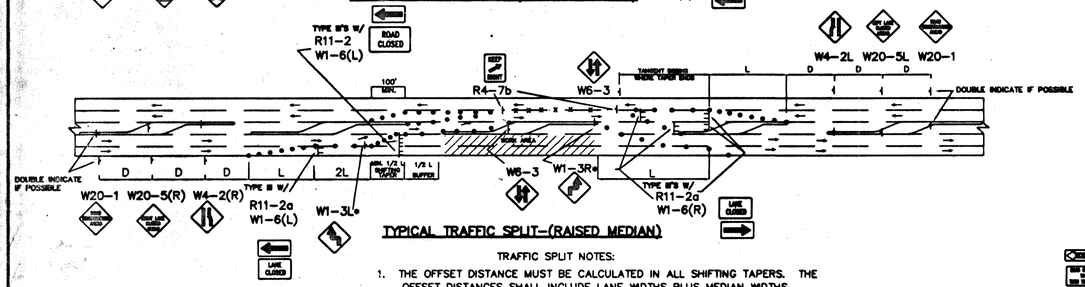


TYPICAL STREET CLOSURE

NOTE: (R1-1) BASED ON FIELD CONDITIONS.



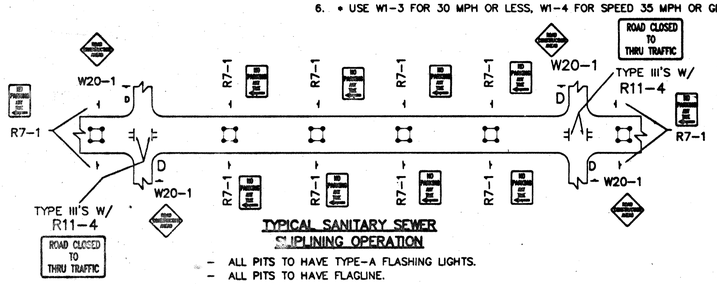
TYPICAL TRAFFIC SPLIT-(PAINTED MEDIAN)



TYPICAL TRAFFIC SPLIT-(RAISED MEDIAN)

TRAFFIC SPLIT NOTES:

1. THE OFFSET DISTANCE MUST BE CALCULATED IN ALL SHIFTING TAPERS. THE OFFSET DISTANCES SHALL INCLUDE LANE WIDTHS PLUS MEDIAN WIDTHS.
2. 1/2 L IS MINIMUM DISTANCE FOR SHIFTING TAPERS.
3. REVERSE CURVES MAY BE IMPLEMENTED. ALL CURVE DATA SHALL BE CALCULATED.
4. MEDIAN REMOVAL SHALL BE REQUIRED IF 1/2 L OR REVERSE CURVE IS NOT SUFFICIENT. MEDIAN REMOVAL SHALL TAKE PLACE BEFORE SPLITS.
5. REDUCED SPEED MAY BE CONSIDERED.
6. * USE W1-3 FOR 30 MPH OR LESS, W1-4 FOR SPEED 35 MPH OR GREATER.



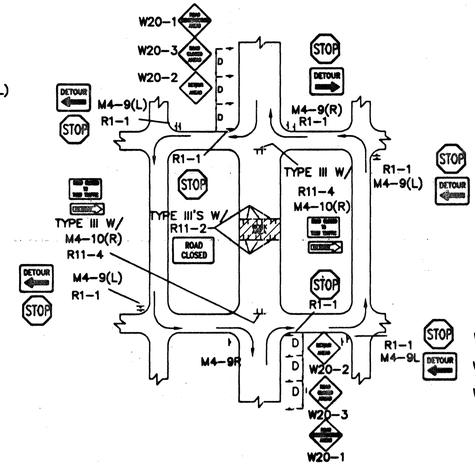
TYPICAL SANITARY SEWER SUPLINING OPERATION

- ALL PITS TO HAVE TYPE-A FLASHING LIGHTS.
- ALL PITS TO HAVE FLAGLINE.

GENERAL NOTE:

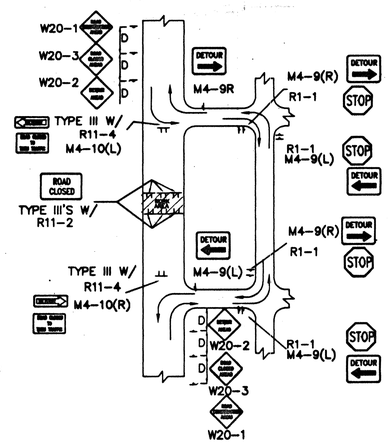
ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON A ORANGE BACKGROUND.

ALL ADVANCE WARNING SIGNS SHALL BE A MINIMUM OF 36" THIRTY SIX INCHES BY 36" THIRTY SIX INCHES IN SIZE AND SHALL HAVE ONE WARNING LIGHT. △1



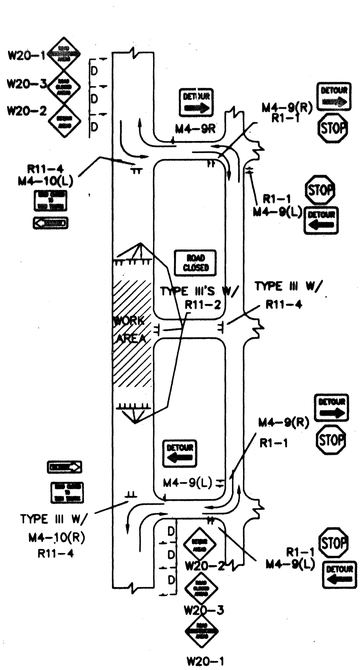
TYPICAL MID-BLOCK CLOSURE

NOTE: (R1-1) BASED ON FIELD CONDITIONS.



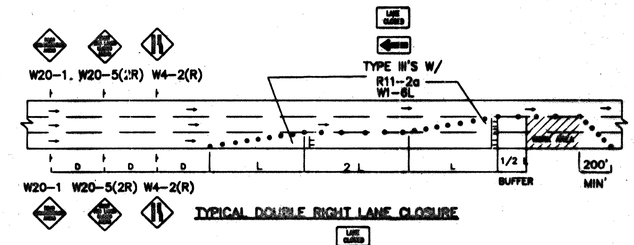
TYPICAL STREET CLOSURE

NOTE: (R1-1) BASED ON FIELD CONDITIONS.

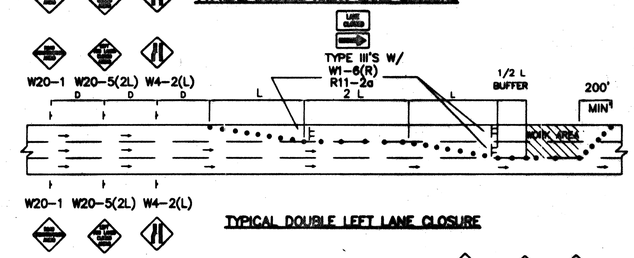


TYPICAL STREET CLOSURE

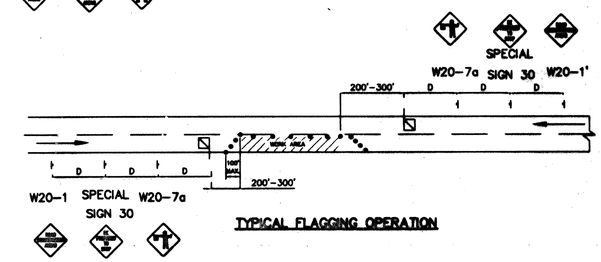
NOTE: (R1-1) BASED ON FIELD CONDITIONS.



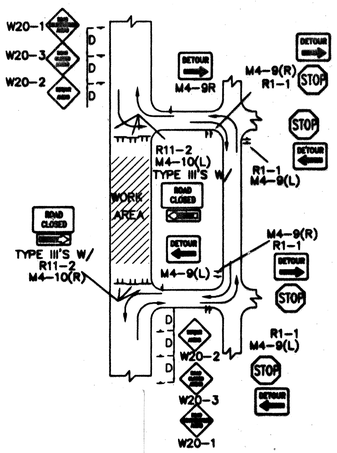
TYPICAL DOUBLE RIGHT LANE CLOSURE



TYPICAL DOUBLE LEFT LANE CLOSURE



TYPICAL FLAGGING OPERATION



TYPICAL STREET CLOSURE

NOTE: (R1-1) BASED ON FIELD CONDITIONS.

AS BUILT INFORMATION
CONTRACTOR SUNDANCE DATE 99
STAKED BY ALS, INC DATE 99
INSPECTOR M.G.A. DATE 11/99
FIELD TECHNICIAN ALS, INC DATE 99
CORRECTED BY ALS, INC DATE 11/99
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY
△1	9/2499	REVISED GENERAL NOTE	J.D.L.

REVISIONS

DESIGN
DESIGNED BY C.O.A. STANDARDS DATE
DRAWN BY DATE
CHECKED BY DATE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: **TYPICAL TRAFFIC CONTROL & SIGNING EXAMPLES (REF. M.U.T.C.D.)**

DESIGN REVIEW COMMITEE	CITY ENGINEER APPROVAL	LAST UPDATE	MO./DAY/YR.	MO./DAY/YR.
COA	Standard			

PROJECT NO. 609281 | MAP NO. | SHEET 24 OF 24

CTS3T-2.DWG