CITY OF
Albuquerque

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
PLANS FOR CONSTRUCTION

BOSQUE DEL RIO SUBDIVISION
PHASE TWO
(PAVING AND UTILITY IMPROVEMENTS)

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20	UTILITY P & P: OFFSITE WATERLINE: STA 1+00 TO 4+90
21	PRESSURE SANITARY SEWER DETAILS
22	STREET SECTIONS AND DETAILS
23	GRADING & DRAINAGE DETAILS

26 5406.8299D13

APPROVAL OF AS BUILT DRAWINGS
Otto Chang
4-30-99

RECORD DRAWING

"I, Kent M. Whitman, a duly Registered Professional Engineer in the State of New Mexico, (#6170), do hereby certify that these record drawings were prepared under my supervision and are true and correct to the best of my knowledge.

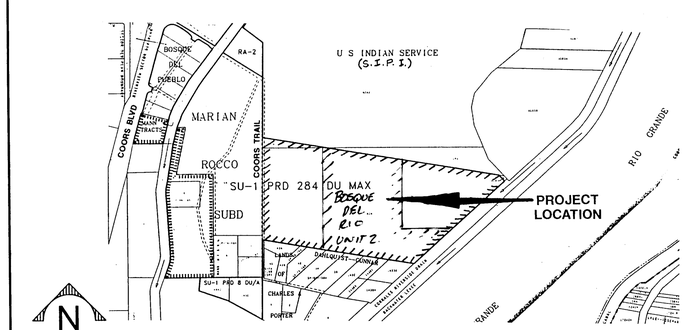
KENT M. WHITMAN NEW MEXICO 6170 REGISTERED PROFESSIONAL ENGINEER

Kent M. Whitman, P.E. No. 6170 — Date 5/20/98

RECORD DRAWING

DRB 94-578

VICINITY MAP



UTILITY COMPANY CONTACTS

PNM
Jim Vann
4201 Edith Blvd., NE
Albuquerque, New Mexico 87107
(505) 848-3426

GAS CO.
Debbie O'Callaghan
4625 Edith Blvd., NE
Albuquerque, New Mexico 87107
(505) 761-7705

AT&T
Ishmael Pantoja
111 Third ST., NW
Albuquerque, New Mexico 87103
(505) 842-2806

JONES INTERCABLE
Karen Shore
4611 Montbel Pl., NE
P.O. Box 27138
Albuquerque, New Mexico 87125-7138
(505) 761-6220

US WEST COMMUNICATIONS
Norma Carrillo
201 Third Street NW
P.O. Box 1355, Sta. 952
Albuquerque, New Mexico 87103
(505) 245-8706

CALL BEFORE YOU DIG!
STATEWIDE
1-800-321-ALERT
ALBUQUERQUE
260-1990

SEC JOB # 197629
Smith Engineering Company
A Pci2 Service Engineering Company
5635 Uptown Boulevard, N.E. Suite 2000 Albuquerque, New Mexico 87110

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

ENGINEERS STAMP & SIGNATURE

PATRICK J. CONNELLY NEW MEXICO 10143 REGISTERED PROFESSIONAL ENGINEER
10-23-97

APPROVED	ENGINEER	DATE
DRC Chairman	Billy J. Goolsby	12/19/97
Transportation		11-24-97
Water/Wastewater	R.W. Kane	11-24-97
Hydrology	Jerry Galegos	11-24-97
C I P		
Constr. Mngml.		

APPROVED FOR CONSTRUCTION

CITY ENGINEER — DATE 1/12/98

PROJECT NUMBER 540682

SHEET 1 OF 23

GENERAL NOTES:

1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT, AND UNLESS STATED OTHERWISE OR PROVIDED FOR HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS. PUBLIC WORKS CONSTRUCTION, 1986 EDITION, AS AMENDED THROUGH UPDATE NO. 6.

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

3. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING UTILITIES BEING CONNECTED TO AND ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.

4. ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29CFR 1926.650 subpart P. ALL OTHER WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES, AND REGULATIONS CONCERNING SAFETY AND HEALTH.

5. CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES DURING CONSTRUCTION.

6. ALL GAS, ELECTRIC, TELEPHONE LINES, CABLES AND APPURTENANCES ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE RELOCATION SHALL BE DONE BY THE RESPONSIBLE UTILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL NECESSARY UTILITY ADJUSTMENTS.

7. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT AND MAINTAIN IN SERVICE ALL EXISTING UTILITIES.

8. THE CONTRACTOR SHALL BE REQUIRED TO CONFINE HIS WORK WITHIN THE CONSTRUCTION LIMITS AND/OR PUBLIC RIGHT-OF-WAY OR EASEMENTS TO PRESERVE EXISTING VEGETATION AND PRIVATE PROPERTY. OVERNIGHT PARKING OF EQUIPMENT AND/OR STORAGE OF MATERIALS IS NOT ALLOWED EXCEPT BY PERMISSION OF PROPERTY OWNER. RESTORATION OF PRIVATE IMPROVEMENTS WILL BE AT THE CONTRACTOR'S EXPENSE.

9. A DISPOSAL SITE FOR ALL EXCESS EXCAVATION MATERIAL, ASPHALTIC PAVING, CONCRETE CURBS AND SIDEWALKS, ETC. SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE FIELD ENGINEER. ALL COSTS INCURRED IN OBTAINING A DISPOSAL SITE AND HAUL THERETO SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.

10. WHEN ABUTTING EXISTING PAVEMENT TO NEW, SAWCUT EXISTING PAVEMENT TO A STRAIGHT EDGE AND AT A RIGHT ANGLE, OR AS APPROVED BY THE PROJECT ENGINEER. REMOVAL OF BROKEN OR CRACKED PAVEMENT WILL ALSO BE REQUIRED.

11. FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION , THE CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. SEE SECTION 19 OF THE SPECIFICATIONS.

12. ALL FINAL BACKFILL FOR TRENCHES SHALL BE COMPACTED TO A MINIMUM 90% MAXIMUM DENSITY PER ASTM D-1557 AND AS DIRECTED BY SECTION 701.14.2 AND STANDARD DRAWING NUMBER 2315.

13. CONTRACTOR SHALL SUBMIT A REVEGETATION PLAN TO ENGINEER FOR PRIOR APPROVAL.

14. THE CONTRACTOR WILL NOTIFY THE FIELD ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK, IN ORDER THAT THE FIELD ENGINEER MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION SURVEY MONUMENTS. THE CONTRACTOR WILL NOTIFY THE ENGINEER IF A MONUMENT IS DISTURBED. REPLACEMENT WILL BE DONE BY CITY SURVEY SECTION. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATION OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR WILL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4 OF SPECIFICATIONS.

15. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM ALL EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.

LEGEND:

	PROPOSED	EXISTING
SANITARY SEWER LINE	3" SAS	SAS
SANITARY SEWER MANHOLE		
WATER LINE	6" WTR	WTR
GATE VALVE		
FIRE HYDRANTS		
REDUCERS		
SINGLE WATER SERVICE CONNECTION		
DOUBLE WATER SERVICE CONNECTION		
SANITARY SEWER SERVICE CONNECTION		
PERMANENT EARTH BERM		
TEMPORARY EARTH BERM		
CENTERLINE BOUNDARY		
PROPERTY/LOT AND ACCESS EASEMENT LINE		
EASEMENT LINE		
CMU WALL		
SPOT ELEVATION	X 80.85	
PAD SPOT ELEVATION	4981.85 TP	
TOP OF CURB	TOC	
TOP BACK CURB	TBC	
TOP OF PIPE	TOP	
PROPERTY LINE	PL	
POINT TANGENCY STATION	PT STA.	
POINT CURVE STATION	PC STA.	
PUBLIC UTILITY EASEMENT	PUE	
TOP OF CURB	TOC	
POINT VERTICAL TANGENCY	PVT	
POINT VERTICAL CURVE	PVC	
VERTICAL POINT CURVE	VPC	
POINT VERTICAL INTERSECTION	PVI	
VERTICAL POINT INTERSECTION STATION	VPI STA.	
VERTICAL POINT INTERSECTION ELEVATION	VPI EL.	
WATER LINE	WL	
CITY OF ALBUQUERQUE	COA	
RIGHT OF WAY	ROW	

COA INSPECTOR: JERRY JOHNSON

AS BUILT INFORMATION
CONTRACTOR NEW CONCEPTS
WORK STAKED BY csc/l.w. DATE 3/98
AS-BUILTS MARKED BY csc/l.w. DATE 4/98
ACCEPTANCE BY csc/l.w. DATE 4/98
FIELD VERIFICATION BY csc/l.w. DATE 4/98
DRAWINGS CORRECTED BY csc DATE 5/98
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
U.S.COE STA. "R.ALAMEDA B-2"
N.M. STATE PLAN COORDINATES (CENTRAL ZONE) BY ACS
X=373,513.20
Y=1,520,142.81
ELEVATION=5,058.25
G/S FACTOR=0.99967638

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
4071	GAYLE JEWELL	07/97

ENGINEERS SEAL
RAMON A. CONLEY NEW MEXICO 9040 REGISTERED PROFESSIONAL ENGINEER
10/23/97

NO.	DATE	REMARKS	BY

REVISIONS

		DATE
DESIGN		
DESIGNED BY	AJG / BAC	10/23/97
DRAWN BY	BAC	10/23/97
CHECKED BY	PJC	10/23/97

197629
Smith Engineering Company
A Full Service Engineering Company
8400 Uptown Boulevard, N.E. Suite 500E Albuquerque, New Mexico 87110

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: BOSQUE DEL RIO SUBDIVISION - PHASE 2

GENERAL NOTES AND LEGEND

Design Review Committee	City Engineer Approval	Last Design Update	No. / Day / Yr.	No. / Day / Yr.

City Project No.	Zone Map No.	Sheet	Of
540682	D-13	2	23

Drawing name: N:\197629\OPTION1\02NOTES.DWG
Saved on: October 22, 1997 at 6:07 AM
This is plot # 4 Plotted on: October 22, 1997 at 6:07 AM

TALOS LOG NO. 970723 1122 0307

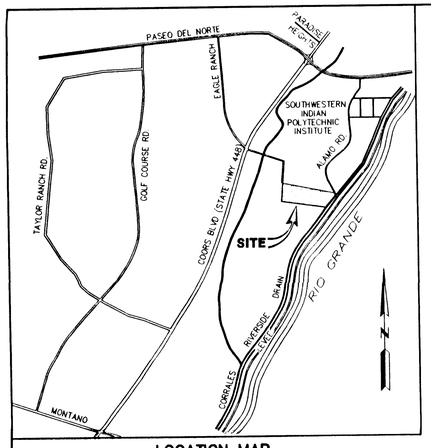
PLAT OF
BOSQUE DEL RIO SUBDIVISION
UNIT 2
ALBUQUERQUE, NEW MEXICO
JULY, 1997

97093213

State of New Mexico } SS
County of Bernalillo }
This instrument was filed for record on

4:46 SEP 09 1997 and recorded in Book ___ Page ___ of records of Said County Fees ___

Linda D. Rombach Clerk & Recorder
Deputy Clerk



LOCATION MAP
NOT TO SCALE
ZONE ATLAS MAP D-13

NOTES

1. THE PURPOSE OF THIS PLAT IS TO SUBDIVIDE THE LOTS IN PHASE 2, AND TO GRANT THE REQUIRED EASEMENTS.
2. BEARINGS ARE BASED ON THE EAST LINE OF THE MARIAN ROCCO SUBDIVISION PLAT FILED OCTOBER 23, 1986, AND ARE STATE PLANE GRID BEARINGS AS INDICATED THEREON.
3. BEARINGS AND DISTANCES SHOWN IN PARENTHESIS ARE FROM PREVIOUSLY RECORDED PLATS AND DEEDS.
4. ALL BOUNDARY CORNERS ARE MARKED BY A REBAR WITH AN ALUMINUM CAP STAMPED "AAR LS 4071", UNLESS OTHERWISE INDICATED HEREON.
5. PRIOR TO DEVELOPMENT, CITY OF ALBUQUERQUE WATER AND SANITARY SEWER SERVICE TO TRACTS MUST BE VERIFIED AND COORDINATED WITH THE PUBLIC WORKS DEPARTMENT, CITY OF ALBUQUERQUE.
6. THE ROADWAYS HEREIN ARE PRIVATE, WITH PRIVATE ACCESS EASEMENTS TO THE OWNERS OF BOSQUE DEL RIO AND THE COORS TRAIL NEIGHBORS ONLY, AS PROVIDED HEREIN AND BY SETTLEMENT AGREEMENT DATED JANUARY 12, 1996. THE ROADWAY IMPROVEMENTS WILL BE THE RESPONSIBILITY OF THE INDIVIDUAL PHASE DEVELOPERS, AND THE MAINTENANCE OF THE ROADWAY IMPROVEMENTS WILL BECOME THE RESPONSIBILITY OF A HOMEOWNERS ASSOCIATION.
7. THE PRIVATE PARK SHOWN HEREON IS FOR THE USE AND BENEFIT OF THE BOSQUE DEL RIO OWNERS ONLY, AND WILL BE OWNED AND MAINTAINED BY A HOMEOWNERS ASSOCIATION.
8. THE PEDESTRIAN AND EQUESTRIAN ACCESS EASEMENT SHOWN HEREON IS PRIVATE, FOR THE USE AND BENEFIT OF THE BOSQUE DEL RIO OWNERS AND THE COORS TRAIL NEIGHBORS ONLY, AS PROVIDED BY SETTLEMENT AGREEMENT DATED JANUARY 12, 1996. THE ROADWAY AND TRAIL IMPROVEMENTS WILL BE THE RESPONSIBILITY OF THE INDIVIDUAL PHASE DEVELOPERS, AND THE MAINTENANCE OF THE IMPROVEMENTS AND EASEMENTS WILL BECOME THE RESPONSIBILITY OF A HOMEOWNERS ASSOCIATION.
9. GRAVITY SANITARY SEWER SERVICE IS NOT AVAILABLE TO ANY OF THE LOTS RECORDED WITHIN THIS PLAT. THEREFORE, ALL LOTS WILL BE SERVICED BY A PRESSURE SANITARY SEWER SYSTEM. MAINTENANCE OF THE INDIVIDUAL GRINDER PUMPS LOCATED WITHIN EACH LOT IS THE RESPONSIBILITY OF EACH INDIVIDUAL HOMEOWNER.

CURVE DATA TABLE

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING
1	450.00'	244.72'	125.47'	241.72'	N63°33'25"W
2	20.00'	25.16'	14.55'	23.53'	N84°01'03"W
3	45.0"	113.22'	139.15'	85.63'	N47°58'39"W
4	20.00'	25.16'	14.55'	23.53'	N11°56'16"W
5	20.00'	31.42'	20.00'	28.28'	N87°01'21"E
6	20.00'	31.42'	20.00'	28.28'	N02°58'39"W
7	20.00'	31.42'	20.00'	28.28'	N87°01'21"E
8	20.00'	31.42'	20.00'	28.28'	N02°58'39"W
9	250.00'	252.98'	138.52'	242.32'	N71°00'43"E
10	250.00'	139.66'	71.71'	134.15'	N62°19'16"W
11	120.00'	115.96'	62.96'	111.50'	N72°19'51"E
12	1000.00'	300.46'	151.37'	299.33'	N71°26'46"W
13	20.00'	31.28'	19.86'	28.19'	N35°10'52"W
14	20.00'	32.29'	20.89'	28.89'	N55°52'14"E
15	300.00'	169.64'	87.16'	167.39'	N25°49'23"E

DESCRIPTION

A certain tract of land situate within Section 19, Township 11 North, Range 3 East, New Mexico Principal Meridian, City of Albuquerque, Bernalillo County, New Mexico, being and comprising all of Parcel "C" and Parcel "D" as the same are shown and designated on the Plat of BOSQUE DEL RIO SUBDIVISION, UNIT 1, filed in the office of the County Clerk of Bernalillo County, New Mexico, on August 29, 1996 in plat book 96C, page 377, and being more particularly described as follows.

Beginning at the northwesterly corner of said Parcel "C" from whence the control survey station "R Alameda B-2" bears N30° 33'23"W, 2,839.09 feet distance, thence, from said point of beginning,

S79°59'55"E, 706.92 feet along the northerly line of said Parcel "C" to a point, thence,
S12°34'34"W, 206.01 feet to a point, thence,
S48°49'24"E, 111.78 feet to a point, thence,
N42°01'19"E, 4.03 feet to a point of curvature; thence,
Northeasterly, 20.81 feet along the arc of a curve bearing to the right, having a radius of 273.00 feet and a chord bearing N44°12'23"E, 20.80 feet to a point on curve, thence,
S43°36'36"E, 152.36 feet to a point, thence,
S37°01'26"W, 120.68 feet to a point, thence,
S35°47'31"W, 44.01 feet to a point, thence,
S42°01'21"W, 196.53 feet to a point, thence,
S36°32'37"W, 14.07 feet to a point, thence,
S79°59'09"E, 483.45 feet to a point, thence,
S11°11'56"E, 130.10 feet to a point on curve, thence,
Northeasterly, 32.30 feet along the arc of a curve bearing to the left, having a radius of 98.00 feet, and a chord bearing N54°05'17"E 32.15' to a point of tangency, thence,
N44°38'50"E, 445.95 feet to a point, thence,
S45°21'10"E, 253.30 feet to a point being the northeasterly corner of said Parcel "D", thence,
S47°49'49"W, 645.86 feet along the southeasterly line of said Parcel "D" to the southeasterly corner, thence,
N79°59'09"W, 570.98 feet to the southwesterly corner of said Parcel "D", thence,
N10°00'51"E, 201.50 feet to a point, thence,
N79°59'09"W, 187.41 feet to a point, thence,
S10°00'51"W, 121.50 feet to a point, thence,
N79°59'09"W, 93.96 feet to a point, thence,
N10°21'15"E, 121.89 feet to a point on curve, thence,
Northwesterly, 95.98 feet along the arc of a curve bearing the right, having a radius of 1,023.00 feet and a chord which bears N74°18'14"W, 95.94 feet to a point on curve, thence,
N18°22'59"E, 46.00 feet to a point, thence,
N14°23'40"E, 142.00 feet to a point, thence,
N30°19'58"E, 107.10 feet to a point, thence,
N42°01'21"E, 113.27 feet to a point, thence,
N42°34'49"W, 203.79 feet to a point, thence,
N67°14'25"W, 140.43 feet to a point, thence,
N79°08'11"W, 213.97 feet to a point, thence,
N10°51'49"E, 174.00 feet to a point, thence,
N79°08'11"W, 24.23 feet to a point, thence,
N10°51'49"E, 118.34 feet to the point of beginning of the tract herein described, containing 17.539 acres, more or less

FREE CONSENT STATEMENT

The plat as shown hereon is with the free consent of, and in accordance with the wishes and desires of the undersigned owners and/or proprietors thereof, and said owners and/or proprietors do hereby grant all utility easements shown hereon by dashed lines, including the right of ingress and egress and the right to trim interfering trees, and do grant to the City of Albuquerque all sanitary sewer and waterline easements as shown hereon, including the right to construct and maintain sanitary sewers and water line facilities therein. And do hereby grant the private access easements as shown hereon for the common benefit of the owners of the lots and parcels in Bosque del Rio. The undersigned owners and/or proprietors do hereby freely consent to all the foregoing and do hereby represent that we are authorized to so act.

OWNERS:
GARRETT GROUP, INC., A NEW MEXICO CORPORATION

Ted E. Garrett

BY: TED E. GARRETT, JR., President, for
and on behalf of GARRETT GROUP, INC.
A New Mexico Corporation

ACKNOWLEGEMENT

STATE OF NEW MEXICO)
COUNTY OF BERNALILLO))SS

The foregoing instrument was acknowledged before me this 25th day of July, 1997, by TED E. GARRETT, JR., President, for and on behalf of GARRETT GROUP, INC. A New Mexico Corporation

NOTARY PUBLIC Deborah M. Dusenbury
My commission expires 9-4-2000

OFFICIAL SEAL
Deborah M. Dusenbury
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires 9-4-2000

PNM approves the plat of Bosque del Rio Unit 2 subdivision and Gas Services (PNM) has no objection to the final approval of the proposed subdivision plat. However, PNM does not waive nor release any prescriptive or easement rights to which it may be entitled.

THIS IS TO CERTIFY THAT TAXES ARE CURRENT AND PAID ON UPC # 1-013-063-245-346-20114
1-013-063-150-399-20115

PROPERTY OWNER OF RECORD MATSUBARA, Charles

BERNALILLO COUNTY TREASURER'S OFFICE Cassandra L. Green
9-97-506

APPROVALS

PNM ELECTRIC SERVICES — DATE 8-13-97 — QWEST INTERLABLE — DATE 8/13/97

U.S. WEST COMMUNICATIONS — DATE 08-13-97 — PNM GAS SERVICES — DATE 8-13-97

CITY SURVEYOR, CITY OF ALBUQUERQUE — DATE 07/24/97
PUBLIC WORKS DEPARTMENT

N/A
PROPERTY MANAGEMENT, CITY OF ALBUQUERQUE — DATE

TRAFFIC ENGINEER, CITY OF ALBUQUERQUE — DATE 9-08-97
PUBLIC WORKS DEPARTMENT

PARKS AND GENERAL SERVICES DEPARTMENT, — DATE 9-8-97
CITY OF ALBUQUERQUE

UTILITY DEVELOPMENT DIVISION, CITY OF — DATE 09-08-97
ALBUQUERQUE PUBLIC WORKS DEPARTMENT

ALBUQUERQUE METROPOLITAN ARROYO — DATE 9-8-97
FLOOD CONTROL AUTHORITY

CITY ENGINEER, CITY OF ALBUQUERQUE — DATE 9-8-97
PUBLIC WORKS DEPARTMENT

APPROVAL AS SPECIFIED BY THE ALBUQUERQUE SUBDIVISION ORDINANCE

CHAIRPERSON, ALBUQUERQUE/BERNALILLO COUNTY — DATE 9.8.97
DEVELOPMENT REVIEW BOARD

DRB CASE No. 94-578

PLAT No.

SURVEYOR'S CERTIFICATE

I, GAYLE D. JEWELL, A REGISTERED LAND SURVEYOR UNDER THE LAWS OF THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT THIS PLAT WAS PREPARED BY ME OR UNDER MY SUPERVISION, SHOWS ALL EASEMENTS OF RECORD MADE KNOWN TO ME BY THE OWNERS/PROPRIETORS, UTILITY COMPANIES OR OTHER PARTIES EXPRESSING AN INTEREST, MEETS THE MINIMUM REQUIREMENTS FOR MONUMENTATION AND SURVEYS FOR THE ALBUQUERQUE SUBDIVISION ORDINANCE, AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

GAYLE D. JEWELL N.M.P.L.S. No 4071 — DATE 07/24/97

REGISTERED PROFESSIONAL LAND SURVEYOR
STATE OF NEW MEXICO
No. 4071
GAYLE JEWELL

SHEET 1 OF 2

ANDREWS, ASBURY & ROBERT, INC.
CONSULTING ENGINEERS
ALBUQUERQUE 95-746 NEW MEXICO

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

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEERS SEAL

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGNED BY DATE
DRAWN BY DATE
CHECKED BY DATE

197629
Smith Engineering Company
A Full Service Engineering Company
5400 Uptown Boulevard, N.E. Suite 500B Albuquerque, New Mexico 87110

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: BOSQUE DEL RIO SUBDIVISION - PHASE 2
PLAT OF BOSQUE DEL RIO SUBDIVISION : UNIT 2

Design Review Committee	City Engineer Approval	Last Design Update	Mo / Day / Yr	Mo / Day / Yr
DRB				

City Project No.	Zone Map No.	Sheet	Of
540682	D-13	03	23

Drawing name: N:\197629\OPTION1\3PLAT.DWG
Saved on: October 22, 1997 at 6:08 AM

SCANNED BY
BY LASER

PLAT OF
BOSQUE DEL RIO SUBDIVISION
UNIT 2

ALBUQUERQUE, NEW MEXICO

JULY,1997

97093213

State of New Mexico } SS
Country of Bernalillo
This instrument was filed for record on

SEP 09 1997 at 2:46 o'clock p.m. Recorded in Vol. 97C of records of said County Folio 205

Clerk & Recorder

Deputy Clerk

DRAINAGE COVENANT

The approved grading and drainage plan details the designed grades for this subdivision. Alterations of the grades within the properties of this subdivision that change the volume of the drainage ponds on each lot will not be allowed. Any alteration of the grades within the properties that does not affect the pond volume must comply with the approved grading and drainage plan in order to gain approval.

FILED 9-6-96 BOOK MS. 96-24 PAGES 5594-5964

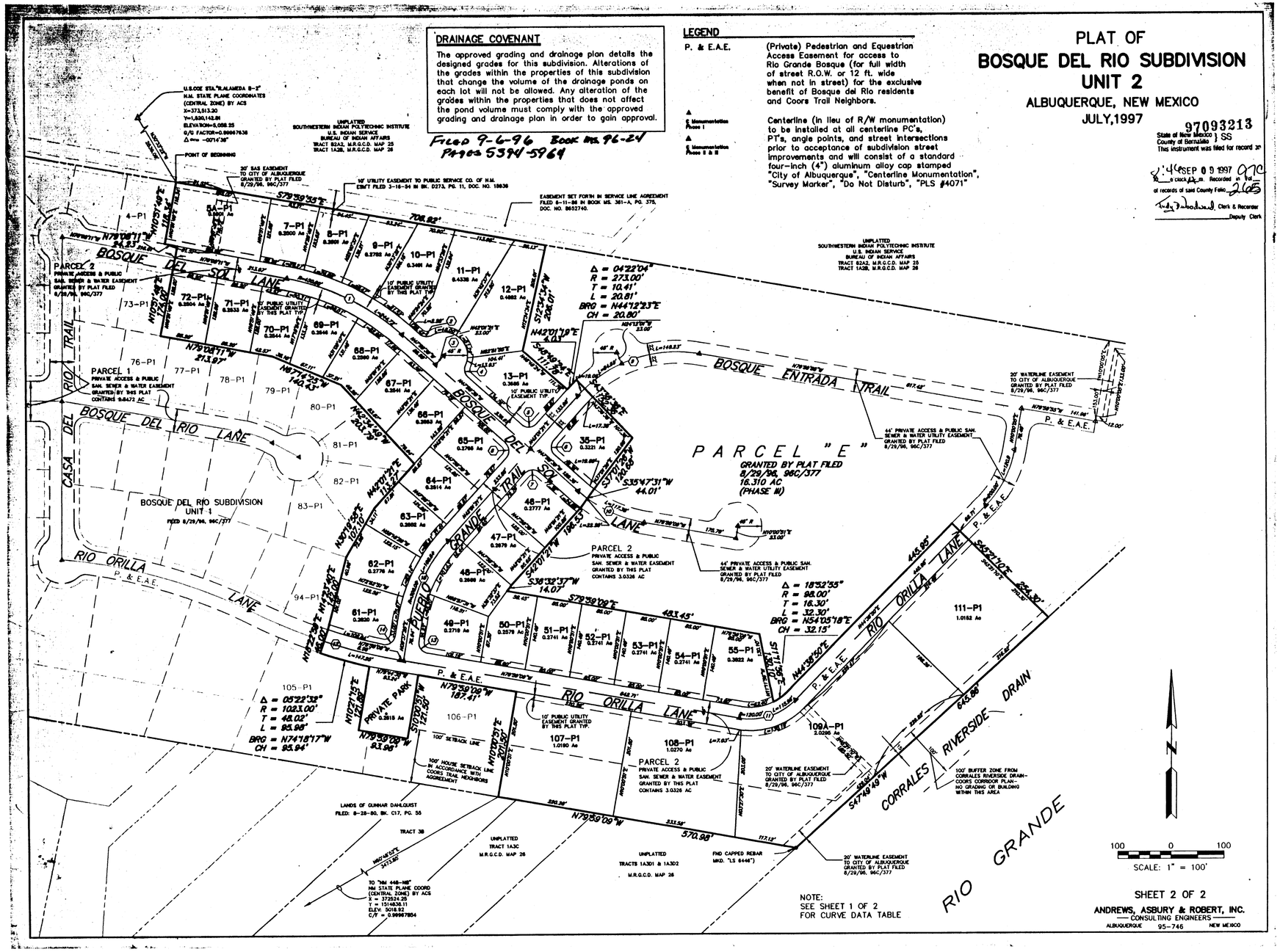
LEGEND

P. & E.A.E. — (Private) Pedestrian and Equestrian Access Easement for access to Rio Grande Bosque (for full width of street R.O.W. or 12 ft. wide when not in street) for the exclusive benefit of Bosque del Rio residents and Coors Trail Neighbors.

▲ ℄ Monumentation Phase I

▲ ℄ Monumentation Phase II & III

Centerline (in lieu of R/W monumentation) to be installed at all centerline PC's, PT's, angle points, and street intersections prior to acceptance of subdivision street improvements and will consist of a standard four-inch (4") aluminum alloy cap stamped "City of Albuquerque", "Centerline Monumentation", "Survey Marker", "Do Not Disturb", "PLS #4071"



NOTE:
SEE SHEET 1 OF 2
FOR CURVE DATA TABLE

SHEET 2 OF 2

ANDREWS, ASBURY & ROBERT, INC.
CONSULTING ENGINEERS
ALBUQUERQUE 95-746 NEW MEXICO

AS BUILT INFORMATION	
CONTRACTOR	N/A
WORK STAKED BY	N/A DATE
INSPECTOR'S ACCEPTANCE BY	N/A DATE
FIELD VERIFICATION BY	N/A DATE
DRAWINGS CORRECTED BY	N/A DATE
MICRO-FILM INFORMATION RECORDED BY	DATE

BENCH MARKS

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEERS SEAL

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGNED BY DATE
DRAWN BY DATE
CHECKED BY DATE

197629

Smith Engineering Company
A Full Service Engineering Company
6400 Uptown Boulevard, N.E. Suite 500E Albuquerque, New Mexico 87110

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: BOSQUE DEL RIO SUBDIVISION - PHASE 2

PLAT OF BOSQUE DEL RIO SUBDIVISION : UNIT 2

Design Review Committee	City Engineer Approval	Last Design Update	No. / Day / Yr.	No. / Day / Yr.
DRB				

City Project No.	Zone Map No.	Sheet	Of
540682	D-13	04	23

Drawing name: N:\197629\OPTION1\04PLAT.DWG
Saved on: October 22, 1997 at 6:09 AM

GENERAL NOTES:

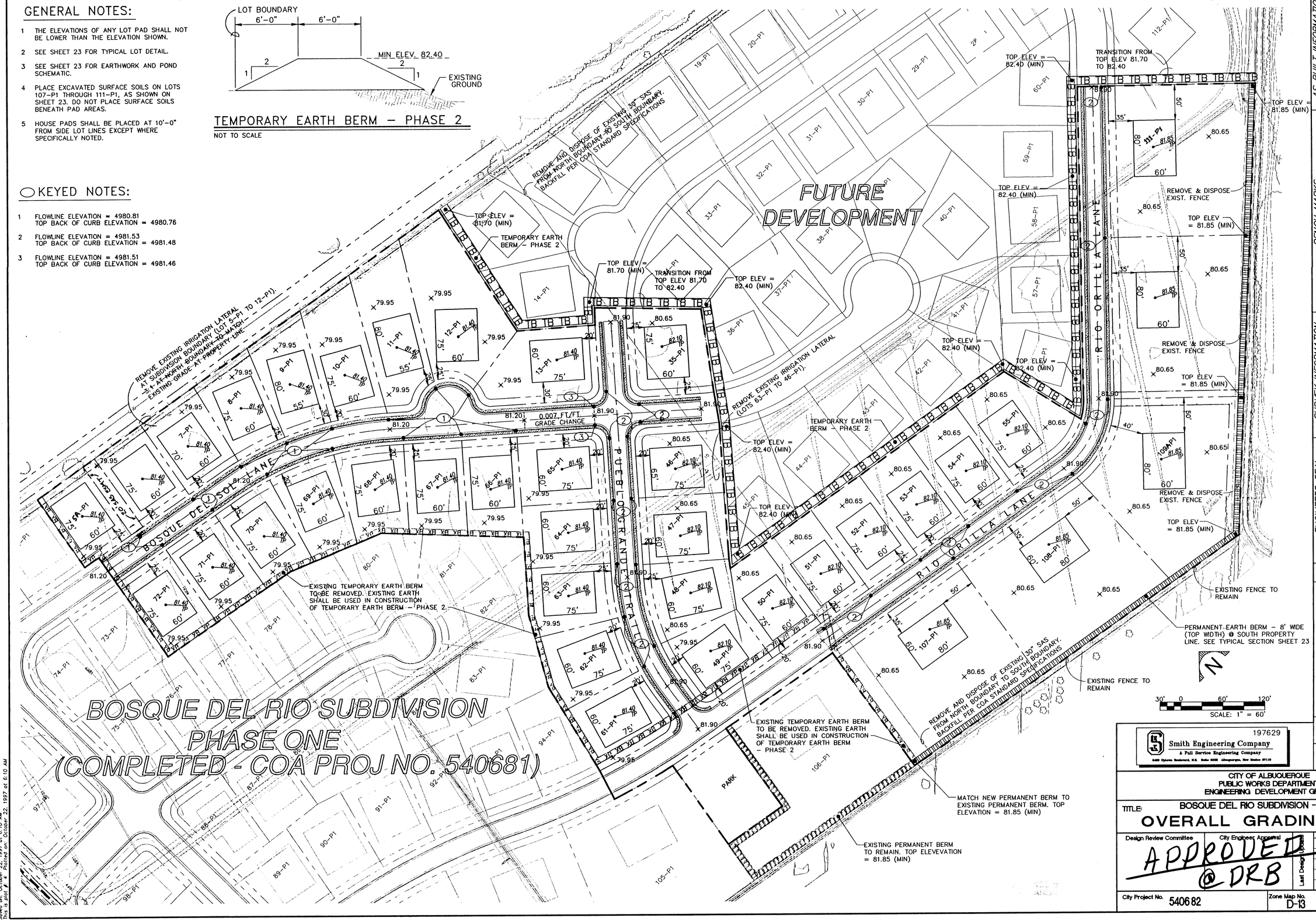
1. THE ELEVATIONS OF ANY LOT PAD SHALL NOT BE LOWER THAN THE ELEVATION SHOWN.
2. SEE SHEET 23 FOR TYPICAL LOT DETAIL.
3. SEE SHEET 23 FOR EARTHWORK AND POND SCHEMATIC.
4. PLACE EXCAVATED SURFACE SOILS ON LOTS 107–P1 THROUGH 111–P1, AS SHOWN ON SHEET 23. DO NOT PLACE SURFACE SOILS BENEATH PAD AREAS.
5. HOUSE PADS SHALL BE PLACED AT 10'–0" FROM SIDE LOT LINES EXCEPT WHERE SPECIFICALLY NOTED.

TEMPORARY EARTH BERM – PHASE 2

NOT TO SCALE

KEYED NOTES:

1. FLOWLINE ELEVATION = 4980.81
   TOP BACK OF CURB ELEVATION = 4980.76
2. FLOWLINE ELEVATION = 4981.53
   TOP BACK OF CURB ELEVATION = 4981.48
3. FLOWLINE ELEVATION = 4981.51
   TOP BACK OF CURB ELEVATION = 4981.46



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197629

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: BOSQUE DEL RIO SUBDIVISION – PHASE 2

OVERALL GRADING PLAN

Design Review Committee | City Engineer Approval | Last Design Update | No. / Day / Yr. | No. / Day / Yr.

APPROVED @ DRB

City Project No. 540682 | Zone Map No. D-13 | Sheet 5 Of 23

AS BUILT INFORMATION

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

BENCH MARKS

U.S.COE STA. "R.ALAMEDA B-2"
N.M. STATE PLAN COORDINATES (CENTRAL ZONE) BY ACS
X=373,513.20
Y=1,520,142.81
ELEVATION=5,058.25
G/C FACTOR=0.99996763

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
4071	GAYLE JEWELL	07/97

ENGINEERS SEAL

PATRICK J. CONLEY
NEW MEXICO
14400
PROFESSIONAL ENGINEER
10/23/97

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN		
DESIGNED BY	AJG / BAC	DATE 10/23/97
DRAWN BY	BAC	DATE 10/23/97
CHECKED BY	PJC	DATE 10/23/97

Drawing name: N:\197629\OPTION1\OSGRADE.DWG
Date of last revision: October 22, 1997
This is plot # 4. Plotted on October 22, 1997 at 6:10 AM

GENERAL NOTES:

1. ELEVATIONS SHOWN ARE SUBJECT TO FINAL EARTHWORK COMPUTATION AND BALANCE OF CUT AND FILL. OVERALL ELEVATIONS MAY CHANGE ± 0.5 FT. RELATIVE ELEVATIONS (I.E., LOT TO LOT, LOT TO POND AND LOT TO ROAD) WILL REMAIN AS SHOWN.

2. THE ELEVATIONS OF ANY PAD GRADE SHALL NOT BE LOWER THAN THE ELEVATION SHOWN. THE ELEVATIONS OF THE PAD GRADES (BUT NOT THE POND OR STREET GRADES) OF LOTS 12, 13, 61 THROUGH 65, AND 102 THROUGH 114 MAY BE 0.80 FEET HIGHER THAN THE ELEVATIONS SHOWN. THE ELEVATIONS OF ALL OTHER PAD GRADES (BUT NOT THE POND OR STREET GRADES) MAY BE 0.05 FEET HIGHER THAN THE ELEVATIONS SHOWN. RAISING LOT PADS MAY REQUIRE IMPORT OF FILL MATERIALS.

3. PORTIONS OF THIS PROPERTY ARE WITHIN THE 100-YEAR FLOOD ZONE (ZONE AH, ELEV. 4981) AS SHOWN ON THE FEMA FLOOD INSURANCE RATE MAP (COMMUNITY PANEL NO. 350002-0008C, OCT. 19, 1982.) LOTS WITHIN THIS FLOOD ZONE DESIGNATION MAY BE SUBJECT TO FLOOD INSURANCE REQUIREMENTS. PROPERTY OWNERS MAY BE REQUIRED TO PURCHASE FLOOD INSURANCE UNTIL SUCH TIME THAT THE ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY (AMAFCA) COMPLETES AND FEMA APPROVES A LETTER OF MAP REVISION APPLICATION FOR THE EXISTING PIEDRAS MARCADAS DAM. LOTS WITHIN THE AH FLOOD ZONE DESIGNATION INCLUDE 1-P1 THROUGH 14-P1, 34-P1 THROUGH 36-P1, 42-P1 THROUGH 54-P1, AND 61-P1 THROUGH 108-P1.

LEGEND

+ EXISTING GROUND ELEVATION
• NEW GROUND OR STREET ELEVATION
◯ DESIGN PAD ELEVATION
▫ CMU WALL

NORTH

0 50 100
SCALE: 1" = 50'

Smith Engineering Company
A Full Service Engineering Company
8400 Uptown Boulevard, N.E. Suite 500E Albuquerque, New Mexico 87110

AS BUILT INFORMATION

CONTRACTOR	N/A	DATE
WORK STAKED BY	N/A	DATE
INSPECTED FOR ACCEPTANCE BY	N/A	DATE
FIELD VERIFICATION BY	N/A	DATE
DRAWINGS CORRECTED BY	N/A	DATE

MICRO-FILM INFORMATION

RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION

FIELD NOTES	BY	DATE

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY
2	4/12/94	Earth Berm @ South PL	CA
1	2/3/94	General Note No. 3	CBA

REVISIONS

DESIGNED BY C. Anderson DATE 1/26/95
DRAWN BY DATE
CHECKED BY DATE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **Bosque del Rio**
MASTER GRADING AND DRAINAGE PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN			WATER		
TRANSPORTATION			WASTE WATER		
HYDROLOGY					

APPROVED @ DRB

PROJECT NO. 540682 | MAP NO. D-13 | SHEET 5A OF 13

1. SEE SHT. D2 FOR NOTES PERTAINING TO GRADING AND DRAINAGE PLANS.

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

BENCH MARKS

SURVEY INFORMATION		
FIELD NOTES		
NO.	BY	DATE

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY
1	1/16/95	Curb Bm @ Sub 12 at 12	C. Jn

REVISIONS

DESIGNED BY C. Anderson DATE 1/16/95
DRAWN BY DATE
CHECKED BY DATE

Smith Engineering Company
A Full Service Engineering Company
5400 Uptown Boulevard, N.E. Suite 500E Albuquerque, New Mexico 87110

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

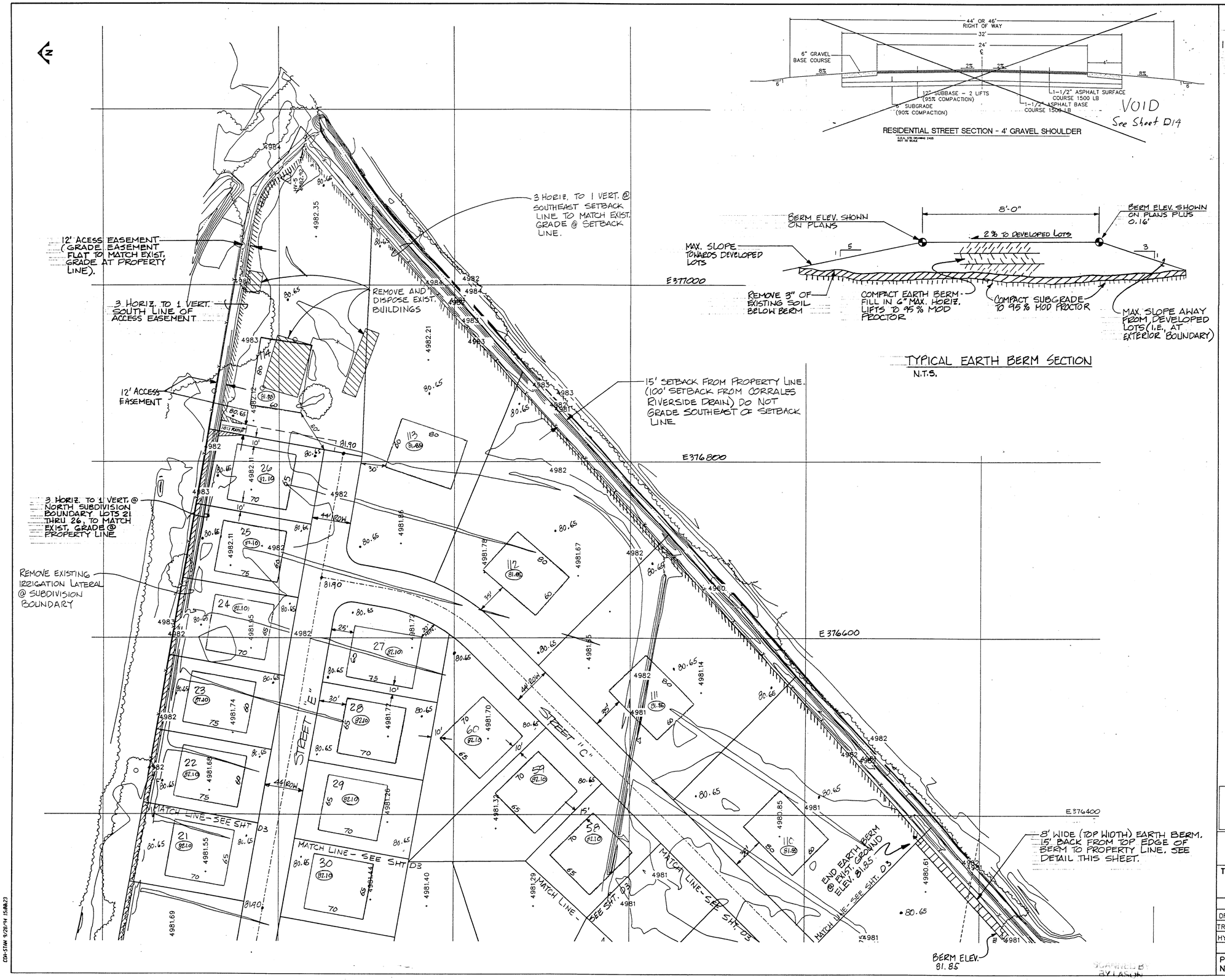
TITLE: **Bosque del Rio**
MASTER GRADING AND DRAINAGE PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN			PARKS		
TRANSPORTATION			WATER		
HYDROLOGY					

Approved @ DRB

PROJECT NO. 540682 | MAP NO. D-13 | SHEET ~~D3~~ 5B OF ~~15~~ 23

CDM-STAW 9/28/94 15:08:23



GENERAL NOTES

1. SEE SHEET D2 FOR NOTES NOTES PERTAINING TO GRADING AND DRAINAGE PLANS.

NORTH

SCALE: 1" = 50'

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5400 Uptown Boulevard, N.E. Suite 600E Albuquerque, New Mexico 87110

NO.	DATE	REMARKS	BY
2	1/18/96	Add Top Earth Berm & Slope on E. Property Line	C.A.
1	2/8/94	Access Easement Location & Grading	C.A.

REVISIONS

DESIGNED BY C. Anderson DATE 1/26/95
DRAWN BY DATE
CHECKED BY DATE

ENGINEER'S SEAL

DUANE L. MAUPIN NEW MEXICO 5317 PROFESSIONAL ENGINEER
Rev. 2/8/94 C.A. Rev. 1/18/96 C.A. Rev. 1/26/96 C.A.
1/26/95

AS BUILT INFORMATION

CONTRACTOR	N/A	
WORK STAKED BY	N/A	DATE
INSPECTORS AS-BUILTS BY	N/A	DATE
FIELD VERIFICATION BY	N/A	DATE
DRAWINGS CORRECTED BY	N/A	DATE

MICRO-FILM INFORMATION

RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **Bosque del Rio**

MASTER GRADING AND DRAINAGE PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN			WATER		
TRANSPORTATION			WASTE WATER		
HYDROLOGY					

APPROVED @ DRB

PROJECT NO. 540682 | MAP NO. D-13 | SHEET 22 OF 23

CDA-STAN 9/28/94 15:08:23

NOTE:
SEE PAVING PLAN AND PROFILE SHEETS FOR ADDITIONAL DETAILS OF ROADS.

FUTURE DEVELOPMENT

BOSQUE DEL RIO SUBDIVISION
PHASE ONE
(COMPLETED - COA PROJ NO. 540681)

U.S.COE STA "R.ALAMEDA B-2"
N.M. STATE PLANE COORDINATES
(CENTRAL ZONE) BY ACS
X=373,513.20
Y=1,520,142.81
ELEVATION=5,058.25
G/G FACTOR=0.99967638

POINT OF BEGINNING

N30°33'32" W
2839.09'

STA 1+00, CL
BEGIN BOSQUE DEL SOL CONSTRUCTION

STA 8+84.29, CL BOSQUE DEL RIO =
STA 5+80.43, CL PUEBLO GRANDE

STA 7+14.39, CL
END OF PUEBLO GRANDE CONSTRUCTION

STA 10+04.65, CL
END OF BOSQUE DEL SOL CONSTRUCTION

STA 10+85.57, CL
END OF RIO ORILLA CONSTRUCTION

STA 1+00, CL
BEGIN RIO ORILLA CONSTRUCTION

STA 1+00, CL
BEGIN PUEBLO GRANDE CONSTRUCTION

PHASE 2 LIMITS

ESTATE TYPE CURB-AND-GUTTER

EXISTING 27' THEORETICAL F-F W/ ESTATE CURB & SHOULDER

EXIST. ESTATE TYPE CURB-AND-GUTTER

PARK

CURVE DATA

NUMBER	DELTA	RADIUS	TANGENT	ARC LENGTH
C1	31°09'32"	450.00	125.47	244.72
C2	32°23'56"	300.00	87.15	169.64
C3	55°22'01"	120.00	62.96	115.96

SCALE: 1" = 60'

Smith Engineering Company
A Full Service Engineering Company
8400 Pyramid Boulevard, N.E. Suite 8008 Albuquerque, New Mexico 87110
197629

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: BOSQUE DEL RIO SUBDIVISION - PHASE 2

OVERALL PAVING PLAN

Design Review Committee	City Engineer Approval	Last Design Update	No. / Day / Yr.	No. / Day / Yr.

City Project No. 540682 | Zone Map No. D-13 | Sheet SD-5A Of 23

AS BUILT INFORMATION
CONTRACTOR *NEW CONCEPTS*
WORK STAKED BY CSC DATE 9/98
WORK INSPECTED BY CSC DATE 4/98
ACCEPTANCE BY CSC DATE 4/98
FIELD VERIFICATION BY CSC DATE 4/98
DRAWINGS CORRECTED BY CSC DATE 4/98
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
U.S.COE STA. "R.ALAMEDA B-2"
N.M. STATE PLAN COORDINATES (CENTRAL ZONE) BY ACS
X=373,513.20
Y=1,520,142.81
ELEVATION=5,058.25
G/G FACTOR=0.99967638

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
4071	GAYLE JEWELL	07/97

ENGINEERS SEAL
PATRICK A. CONLEY
NEW MEXICO
14101
REGISTERED PROFESSIONAL ENGINEER
10/23/97

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGNED BY	AJG / BAC	DATE 10/23/97
DRAWN BY	BAC	DATE 10/23/97
CHECKED BY	PJC	DATE 10/23/97

RECORD DRAWING

Drawing name: N:\197629\OPTION\OSPAVE.DWG
Saved on: October 22, 1997 at 6:22 AM
This is plot # 6 Plotted on: October 22, 1997 at 6:22 AM

NOTE:
SEE UTILITY PLAN AND PROFILE SHEETS FOR ADDITIONAL DETAILS OF UTILITY INSTALLATION.

FUTURE DEVELOPMENT

BOSQUE DEL RIO SUBDIVISION
PHASE ONE
(COMPLETED - COA PROJ NO. 540681)

STA 10+95.57, 10' LT
END CONSTRUCTION OF
NEW 10" WATERLINE

STA 10+95.57, CL
END CONSTRUCTION OF
NEW 3" PRES. SAS

STA 7+24.39, CL
NEW INLINE FLUSHING
CONNECTION
END CONSTRUCTION OF
NEW 3" PRES. SAS

STA 7+24.39, 10' RT
END CONSTRUCTION OF
NEW 6" WATERLINE

STA 8+84.29, CL BOSQUE DEL RIO =
STA 5+80.43, CL PUEBLO GRANDE
(2) NEW 45° WYES

STA 8+51.79, 10' RT
NEW 6" GATE VALVE

STA 6+12.93, 10' RT
NEW 6" GATE VALVE

STA 10+14.65, CL
NEW INLINE FLUSHING CONNECTION
END CONSTRUCTION OF
NEW 3" PRES. SAS

STA 10+14.65, 10' RT
END CONSTRUCTION OF
NEW 6" WATERLINE

STA 8+94.29, 10' RT BOSQUE DEL RIO =
STA 5+70.43, 10'RT PUEBLO GRANDE
NEW 6" CROSS

STA 5+47.93, 10' RT
NEW 6" GATE VALVE

STA 4+71.33, 23' RT
NEW FIRE HYDRANT

STA 4+50, INLINE
FLUSHING CONNECTION

STA 4+50.87, 10' RT
NEW 6" GATE VALVE

STA 5+97.43, CL
NEW INLINE FLUSHING
CONNECTION

STA 8+00
INLINE FLUSHING
CONNECTION

STA 1+38.40, 10' RT
BEGIN CONSTRUCTION
OF NEW 6" WATERLINE

STA 1+11.08, 10' LT
BEGIN CONSTRUCTION
OF NEW 10" WATERLINE

STA 1+00, CL
BEGIN RIO ORILLA
CONSTRUCTION

STA 1+26.08, CL
BEGIN CONSTRUCTION OF
NEW 3" PRES. SAS

STA 1+55
INLINE FLUSHING
CONNECTION

STA 1+40.09, CL
BEGIN CONSTRUCTION OF
NEW 3" PRES. SAS

STA 1+29.85, 10' RT
BEGIN CONSTRUCTION OF
NEW 6" WATERLINE

STA 8+00
INLINE FLUSHING
CONNECTION

STA 6+27.35, 9.4' LT RIO ORILLA =
STA 1+00.00, CL OFFSITE WATERLINE
NEW 10" TEE

STA 1+14.50, CL
NEW GATE VALVE

STA 1+50.66, CL
NEW 22.5° BEND

STA 3+05.11, CL
NEW 45° BEND

STA 3+10.10, CL
NEW 45° BEND

STA 6+03.44, 22' LT
NEW FIRE HYDRANT

STA 1+50.66, CL
NEW 22.5° BEND

STA 6+17.29, 8.1' LT
NEW 22.5° BEND

STA 5+81.63, 10' LT
NEW 11.25° BEND

STA 5+76.18, 10.3' LT
NEW 10" GATE VALVE
104A-P1

STA 5+45.98, 8.1' LT
NEW 22.5° BEND

STA 5+00.00, CL
END CONSTRUCTION OF
NEW 10" WATERLINE

STA 4+50
INLINE FLUSHING
CONNECTION

PHASE 2 LIMITS

NEW 3" PRES. SAS

NEW 6" WTR

NEW 10" WTR

10' P.U.E.

20' ESMNT

BOSQUE DEL RIO

PUEBLO GRANDE

EXIST MH #0-2

EXIST. 6" WTR

EXIST 8" SAS

EXIST PRESURE SAS CLEANOUT

PARK

SCALE: 1" = 60'

197629
Smith Engineering Company
A Full Service Engineering Company
5400 Uptown Boulevard, N.E. Suite 500B Albuquerque, New Mexico 87110

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: BOSQUE DEL RIO SUBDIVISION - PHASE 2

OVERALL UTILITY PLAN

Design Review Committee	City Engineer Approval	Last Design Update	No. / Day / Yr.	No. / Day / Yr.

City Project No.	Zone Map No.	Sheet
540682	D-13	SE 58 Of 23

AS BUILT INFORMATION

CONTRACTOR NEW CONCEPTS

WORK STAKED BY	CSC	DATE 3/98
INSPECTOR'S ACCEPTANCE BY	CSC	DATE 4/98
FIELD VERIFICATION BY	CSC	DATE 4/98
DRAWINGS CORRECT BY	CSC	DATE 5/98

M INFORMATION

NO.	BY

BENCH MARKS

U.S.C.&G.S. STA. "R.ALAMEDA B-2"
N.M. STATE PLAN COORDINATES (CENTRAL ZONE) BY ACS
X=373,513.20
Y=1,520,142.81
ELEVATION=5,058.25
G/S FACTOR=0.99967638

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
4071	GAYLE JEWELL	07/97

ENGINEER'S SEAL
PATRICK J. CONLEY
NEW MEXICO
14E-14CO
10/23/97
REGISTERED PROFESSIONAL ENGINEER

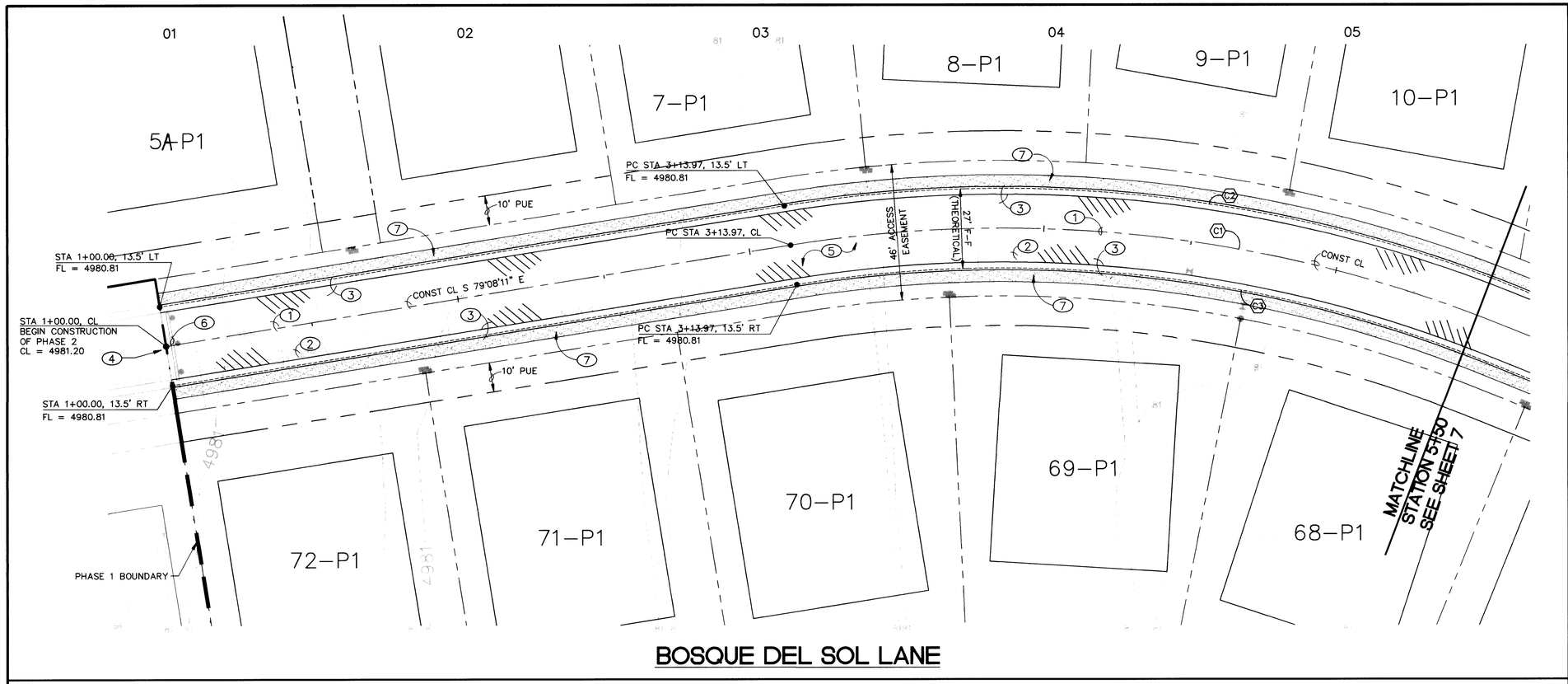
NO.	DATE	REMARKS	BY

REVISIONS

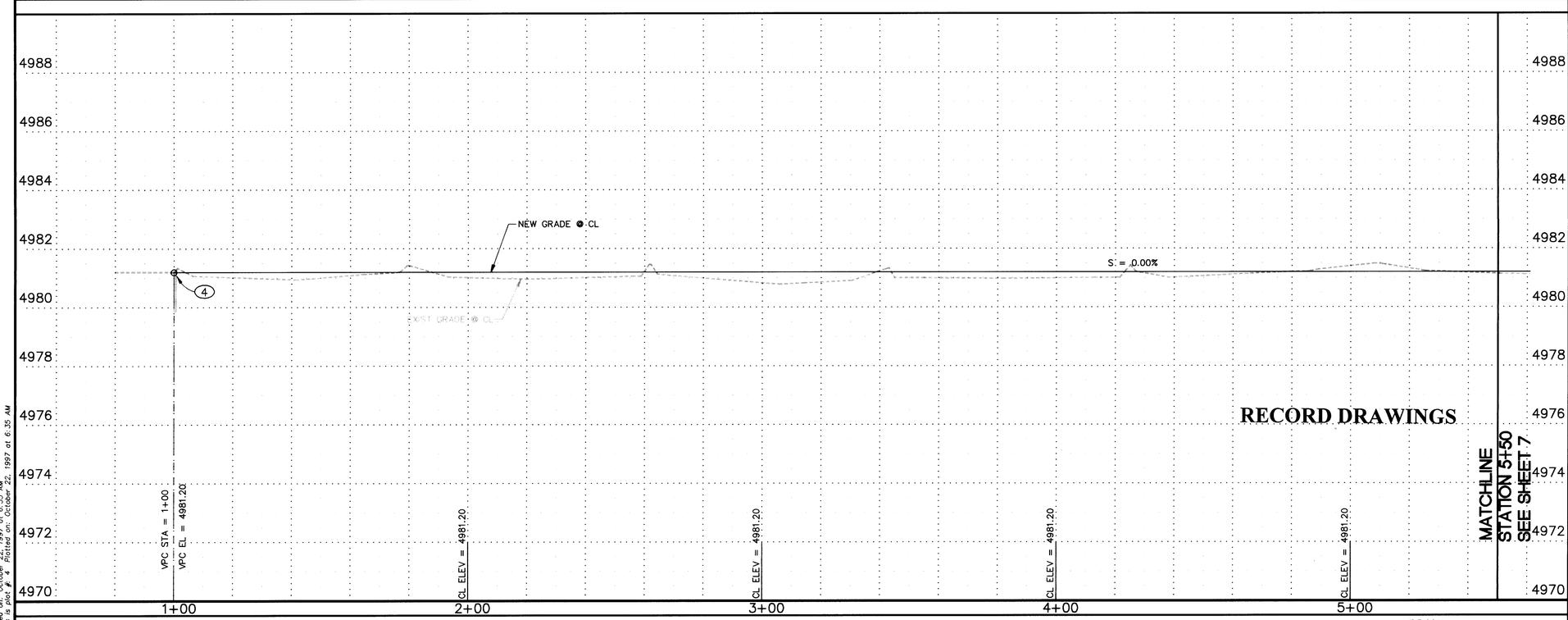
		DATE
DESIGNED BY	AJG / BAC	10/23/97
DRAWN BY	BAC	10/23/97
CHECKED BY	PJC	10/23/97

DESIGN

RECORD DRAWING



BOSQUE DEL SOL LANE



RECORD DRAWINGS

KEYED NOTES:

1. CONSTRUCT NEW 3" PRESSURE SANITARY SEWER. SEE UTILITY PLAN AND PROFILE SHEETS 13–19 FOR DETAILS.
2. CONSTRUCT NEW 6" PVC WATER LINE. SEE UTILITY PLAN AND PROFILE SHEETS 13–20 FOR DETAILS.
3. CONSTRUCT NEW ESTATE TYPE CURB PER PER COA STD DWG 2415.
4. REMOVE AND DISPOSE OF EXISTING CUT–OFF WALL. MATCH EXISTING GRADE OF BOSQUE DEL SOL LANE, PHASE 1.
5. SEE SHEET 22 FOR STREET SECTIONS.
6. REMOVE AND RELOCATE TYPE III BARRICADE TO END OF BOSQUE DEL SOL PHASE 2 CONSTRUCTION.
7. CONSTRUCT 4–FOOT GRAVEL SHOULDER. SEE TYPICAL ROAD SECTION, SHEET 22.

CURVE DATA

NUMBER	DELTA	RADIUS	TANGENT	ARC LENGTH
C1	31°09'32"	450.00	125.47	244.72
C2	31°09'32"	463.50	129.23	252.06
C3	31°09'32"	436.50	121.70	237.38

N

Vertical Scale: 1" = 2'

Horizontal Scale: 1"=20'

197629
Smith Engineering Company
A Full Service Engineering Company
5400 Uptown Boulevard, N.E. Suite 5000 Albuquerque, New Mexico 87110

AS BUILT INFORMATION
CONTRACTOR *new concepts*
WORK STAKED BY *CSC* DATE *3/98*
SURVEY BOOK
ACCEPTANCE BY *CSC* DATE *4/98*
FIELD VERIFICATION BY *CSC* DATE *4/98*
DRAWINGS CORRECTED BY *CSC* DATE *5/98*
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
U.S.C.O.E. STA. "R.ALAMEDA B-2"
N.M. STATE PLAN COORDINATES (CENTRAL ZONE) BY: ACS
X=373,513.20
Y=1,520,142.81
ELEVATION=5,058.25
G/G FACTOR=0.99967638

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
4071	GAYLE JEWELL	07/97

ENGINEERS SEAL
PATRICK J. CONLEY
NEW MEXICO
REGISTERED PROFESSIONAL ENGINEER
10/23/97

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

		DATE
DESIGNED BY	AJG / BAC	10/23/97
DRAWN BY	BAC	10/23/97
CHECKED BY	PJC	10/23/97

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

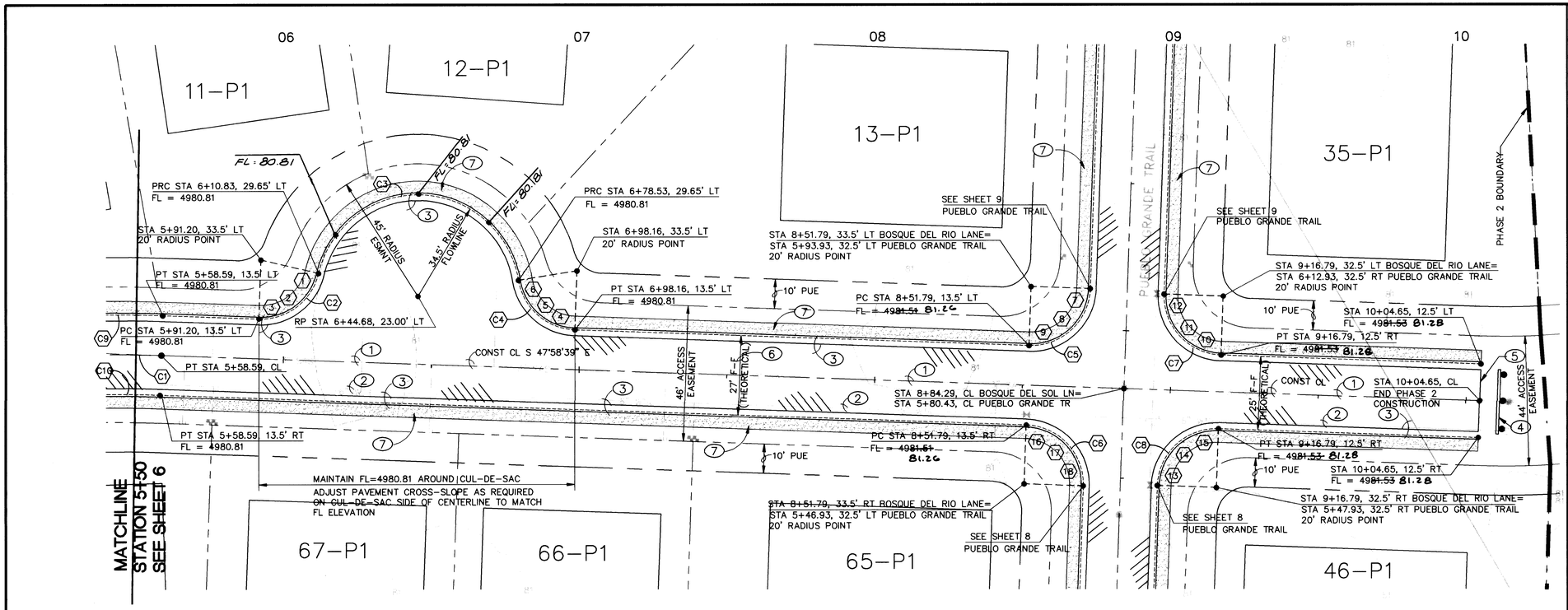
TITLE: BOSQUE DEL RIO SUBDIVISION - PHASE 2
PAVING P & P: BOSQUE DEL SOL LANE: STA 1+00 TO 5+50

Design Review Committee — DEC 19 1997 — CITY ENGINEER — DEVELOPMENT REVIEW COMMITTEE
City Engineer Approval
Last Design Update — No. / Day / Yr. — No. / Day / Yr.

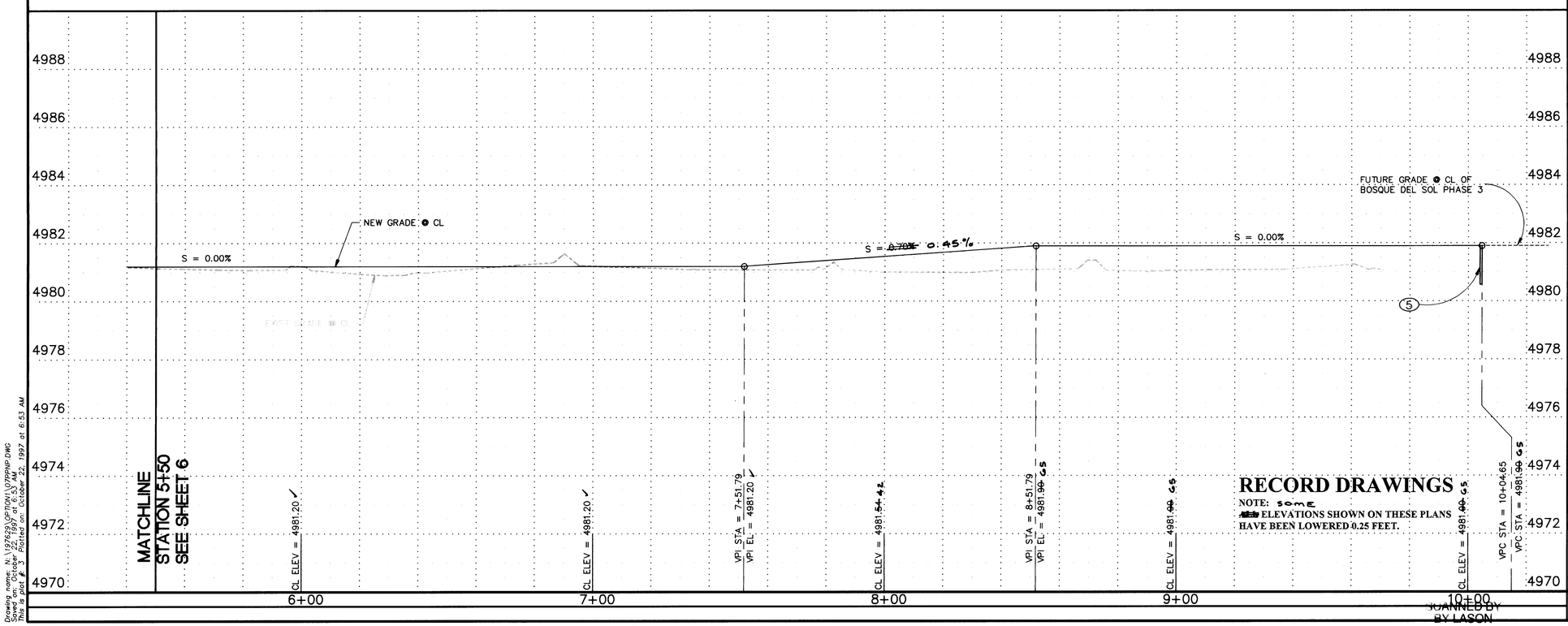
City Project No. 540682 | Zone Map No. D-13 | Sheet 6 Of 23

Drawing name: N:\197629\OPTION1\06PPNP.DWG
Saved by: PJCONLEY on October 22, 1997 at 7:32 AM
This is plot # 4 Plotted on: October 22, 1997 at 6:35 AM

SCANNED BY
BY LASON



BOSQUE DEL SOL LANE



RECORD DRAWINGS

NOTE: some ELEVATIONS SHOWN ON THESE PLANS HAVE BEEN LOWERED 0.25 FEET.

SCANNED BY BY LASON

KEYED NOTES:

1. CONSTRUCT NEW 3" PRESSURE SANITARY SEWER. SEE UTILITY PLAN AND PROFILE SHEETS 13–19 FOR DETAILS.
2. CONSTRUCT NEW 6" PVC WATER LINE. SEE UTILITY PLAN AND PROFILE SHEETS 13–20 FOR DETAILS.
3. CONSTRUCT NEW ESTATE TYPE CURB PER COA STD DWG 2415.
4. REUSE EXISTING BARRICADE FROM BEGINNING OF BOSQUE DEL SOL CONSTRUCTION. SEE TYPE III BARRICADE WITH RED AND WHITE STRIPING PER MUTCD, 1992 ED FOR DETAILS.
5. CONSTRUCT CUT–OFF WALL FROM LIP (LT) TO LIP (RT) AT END OF ROADWAY (PHASE TWO) PER COA STANDARD DRAWING 2415.
6. SEE SHEET 22 FOR STREET SECTION.
7. CONSTRUCT 4–FOOT GRAVEL SHOULDER. SEE TYPICAL ROAD SECTION, SHEET 22.

(C2) CURVE DATA

NUMBER	DELTA	RADIUS	TANGENT	ARC LENGTH
C1	31°09'32"	450.00	125.47	244.72
C2	78°53'31"	20.00	16.46	27.54
C3	157°47'02"	34.50	175.72	95.01
C4	78°53'31"	20.00	16.46	27.54
C5	90°00'00"	20.00	20.00	31.42
C6	90°00'00"	20.00	20.00	31.42
C7	90°00'00"	20.00	20.00	31.42
C8	90°00'00"	20.00	20.00	31.42
C9	31°09'32"	463.50	129.23	252.06
C10	31°09'32"	436.50	121.70	237.38

(1) CURB RETURN DATA

POINT NO.	~~TOP~~ BACK OF CURB	FLOW LINE
1	4980.76	4980.81
2	4980.76	4980.81
3	4980.76	4980.81
4	4980.76	4980.81
5	4980.76	4980.81
6	4980.76	4980.81
7	4981.~~48~~.23	4981.~~53~~.28
8	4981.~~47~~.22	4981.~~52~~.27
9	4981.~~47~~.22	4981.52.27
10	4981.~~48~~.23	4981.53.28
11	4981.~~48~~.23	4981.53.28
12	4981.~~48~~.23	4981.53.28
13	4981.~~48~~.23	4981.53.28
14	4981.~~48~~.23	4981.53.28
15	4981.~~48~~.23	4981.53.28
16	4981.~~47~~.22	4981.52.27
17	4981.~~47~~.22	4981.52.27
18	4981.~~48~~.23	4981.53.28

N

Horizontal Scale: 1"=20'

Vertical Scale: 1" = 2'

Smith Engineering Company
A Full Service Engineering Company
5400 Uptown Boulevard, N.E. Suite 600E Albuquerque, New Mexico 87110
197629

AS BUILT INFORMATION
CONTRACTOR NEW CONCEPTS
WORK STAKED BY: CSC DATE 3/98
AS-BUILTS BY: CSC DATE 4/98
ACCEPTANCE BY CSC DATE 4/98
FIELD VERIFICATION BY CSC DATE 4/98
DRAWINGS CORRECTED BY CSC DATE 5/98
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
U.S.C.&G.S. STA. "R.ALAMEDA B-2"
N.M. STATE PLAN COORDINATES (CENTRAL ZONE) BY ACS
X=373,513.20
Y=1,520,142.81
ELEVATION=5,058.25
G/G FACTOR=0.99967638

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
4071	GAYLE JEWELL	07/97

ENGINEERS SEAL
PATRICK J. CONLEY
NEW MEXICO
10141
REGISTERED PROFESSIONAL ENGINEER
10/23/97

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY	AJG / BAC	DATE	10/23/97
DRAWN BY	BAC	DATE	10/23/97
CHECKED BY	PJC	DATE	10/23/97

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: BOSQUE DEL RIO SUBDIVISION - PHASE 2
PAVING P & P: BOSQUE DEL SOL LANE: STA 5+50 TO 10+04.65

Design Review Committee: DEC 19 1997 DESIGN REVIEW COMMITTEE
City Engineer Approval
Last Design Update | No. / Day / Yr. | No. / Day / Yr.

City Project No. 540682 | Zone Map No. D-13 | Sheet 7 Of 23

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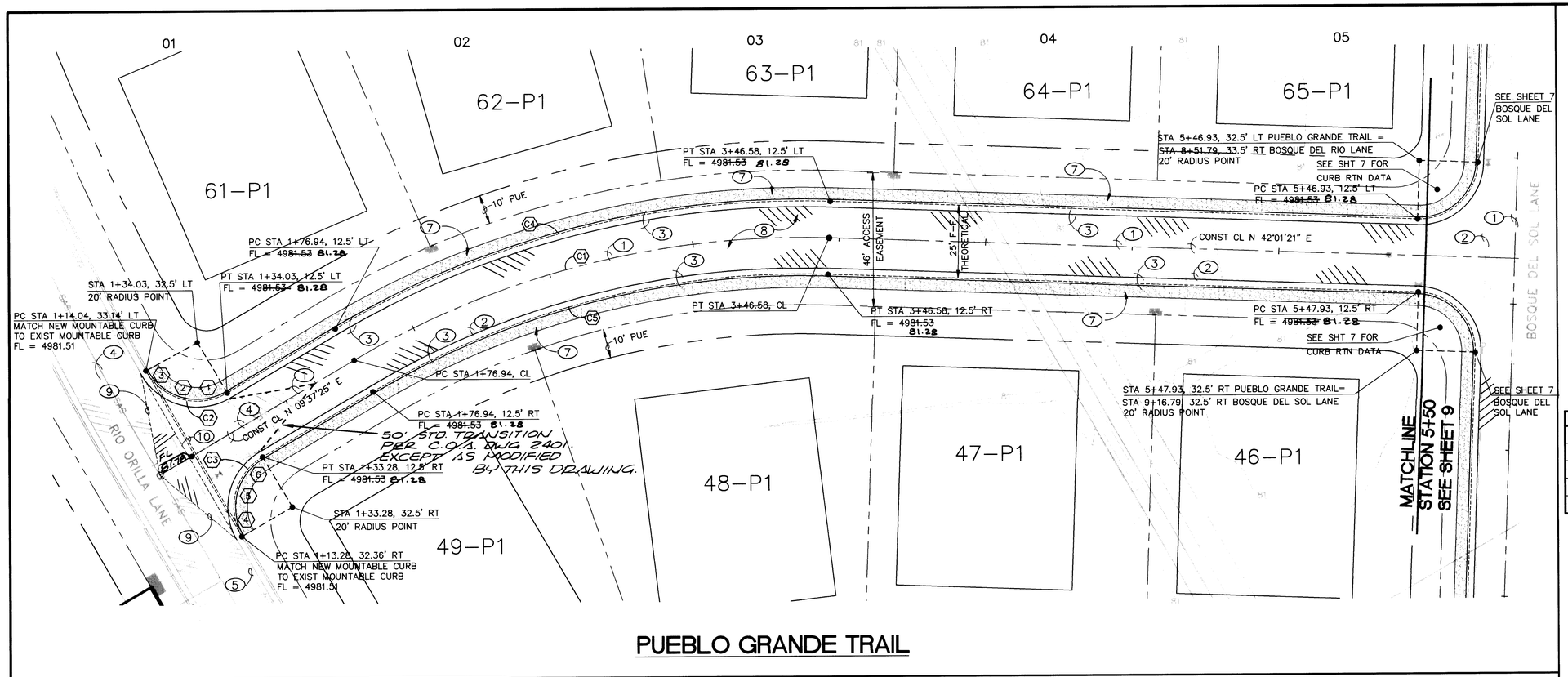
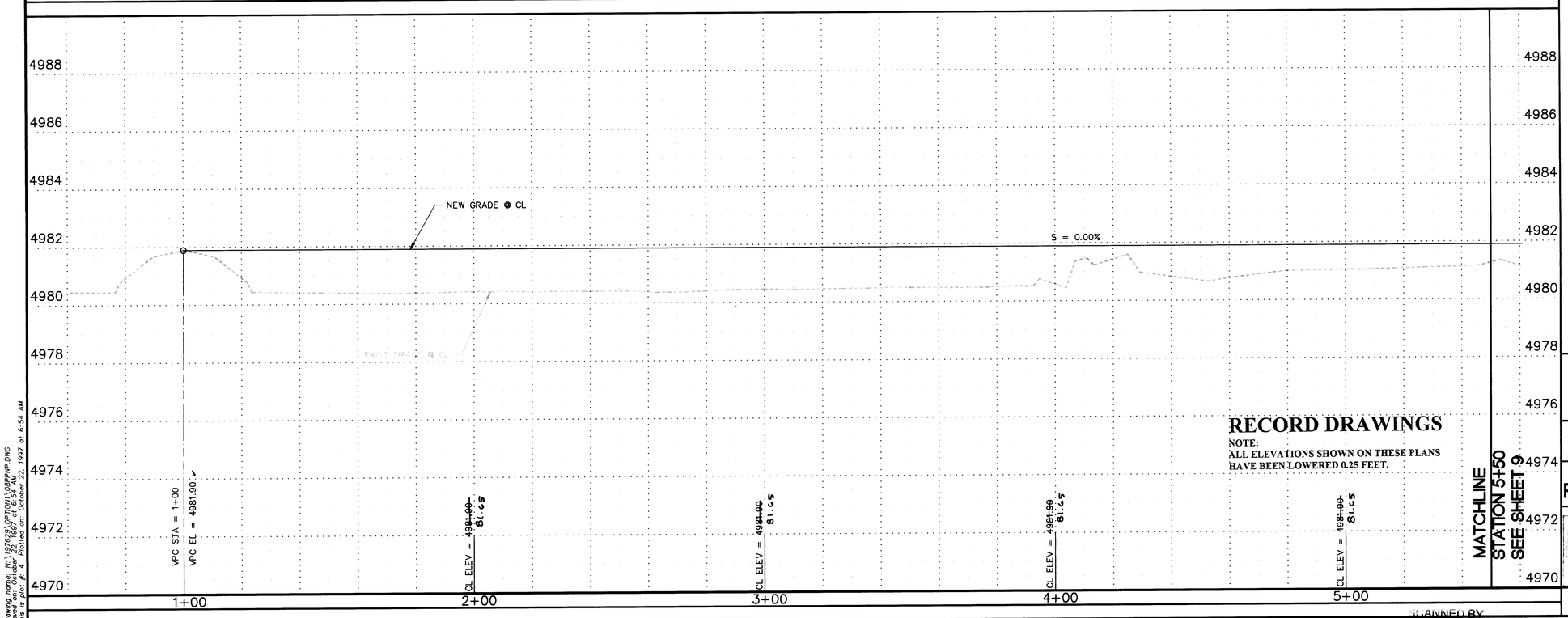


PUEBLO GRANDE TRAIL



RECORD DRAWINGS

NOTE:
ALL ELEVATIONS SHOWN ON THESE PLANS HAVE BEEN LOWERED 0.25 FEET.

SCANNED BY
BY LASON

KEYED NOTES:

1. CONSTRUCT NEW 3" PRESSURE SANITARY SEWER. SEE UTILITY PLAN AND PROFILE SHEETS 13–19 FOR DETAILS.
2. CONSTRUCT NEW 6" PVC WATER LINE. SEE UTILITY PLAN AND PROFILE SHEETS 13–20 FOR DETAILS.
3. CONSTRUCT NEW ESTATE TYPE CURB PER COA STD DWG 2415.
4. EXISTING SANITARY SEWER.
5. EXISTING WATER LINE.
6. EXISTING 27' FLOWLINE TO FLOWLINE (THEORETICAL) ROADWAY.
7. CONSTRUCT 4–FOOT GRAVEL SHOULDER. SEE TYPICAL ROAD SECTION, SHEET 22.
8. SEE SHEET 22 FOR STREET SECTION.
9. MATCH NEW PAVEMENT TO EXISTING PAVEMENT. SAWCUT EXISTING PAVEMENT AND REMOVE. PLACE NEW PAVEMENT TO NEW GRADES SHOWN.
10. SAWCUT AND REMOVAL LIMITS OF EXISTING ESTATE TYPE CURB.

(C4) CURVE DATA

NUMBER	DELTA	RADIUS	TANGENT	ARC LENGTH
C1	32°23'56"	300.00	87.15	169.64
C2	91°50'48"	20.00	20.66	32.06
C3	89°36'34"	20.00	19.86	31.28
C4	32°23'56"	312.50	90.79	176.71
C5	32°23'56"	287.50	83.52	162.57

(1) CURB RETURN DATA

POINT NO.	~~TOP~~ BACK OF CURB	FLOW LINE
1	~~4981.30~~ 28	~~4981.35~~ 23
2	~~4981.12~~ 35	~~4981.17~~
3	~~4980.94~~	~~4980.99~~
4	~~4980.94~~	~~4980.99~~
5	~~4981.12~~	~~4981.17~~
6	~~4981.30~~	~~4981.35~~

N

Horizontal Scale: 1"=20'

Vertical Scale: 1" = 2'

197629
Smith Engineering Company
A Full Service Engineering Company
5400 Uptown Boulevard, N.E. Suite 2000 Albuquerque, New Mexico 87110

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: BOSQUE DEL RIO SUBDIVISION – PHASE 2
PAVING P & P: PUEBLO GRANDE TRAIL: STA 1+00 TO 5+50

Design Review Committee: APPROVED DEC 19 1997 DESIGN REVIEW COMMITTEE
City Engineer Approval
Last Design Update: No. / Day / Yr.
City Project No. 540682
Zone Map No. D-13
Sheet 8 Of 23

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGN

		DATE
DESIGNED BY	AJG / BAC	10/23/97
DRAWN BY	BAC	10/23/97
CHECKED BY	PJC	10/23/97

ENGINEERS SEAL
PATRICK J. CONLEY NEW MEXICO 10141 REGISTERED PROFESSIONAL ENGINEER
10/23/97

AS BUILT INFORMATION
CONTRACTOR NEW CONCEPTS

		DATE
WORK STAKED BY	CSC	3/98
INSPECTOR'S ACCEPTANCE BY	CSC	4/98
FIELD VERIFICATION BY	CSC	4/98
DRAWINGS CORRECTED BY	CSC	5/98
MICRO–FILM INFORMATION RECORDED BY		DATE
NO.		

BENCH MARKS
U.S.C.&G.S. STA. "R.ALAMEDA B–2"
N.M. STATE PLAN COORDINATES (CENTRAL ZONE) BY ACS
X=373,513.20
Y=1,520,142.81
ELEVATION=5,058.25
G/G FACTOR=0.99996738

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
4071	GAYLE JEWELL	07/97

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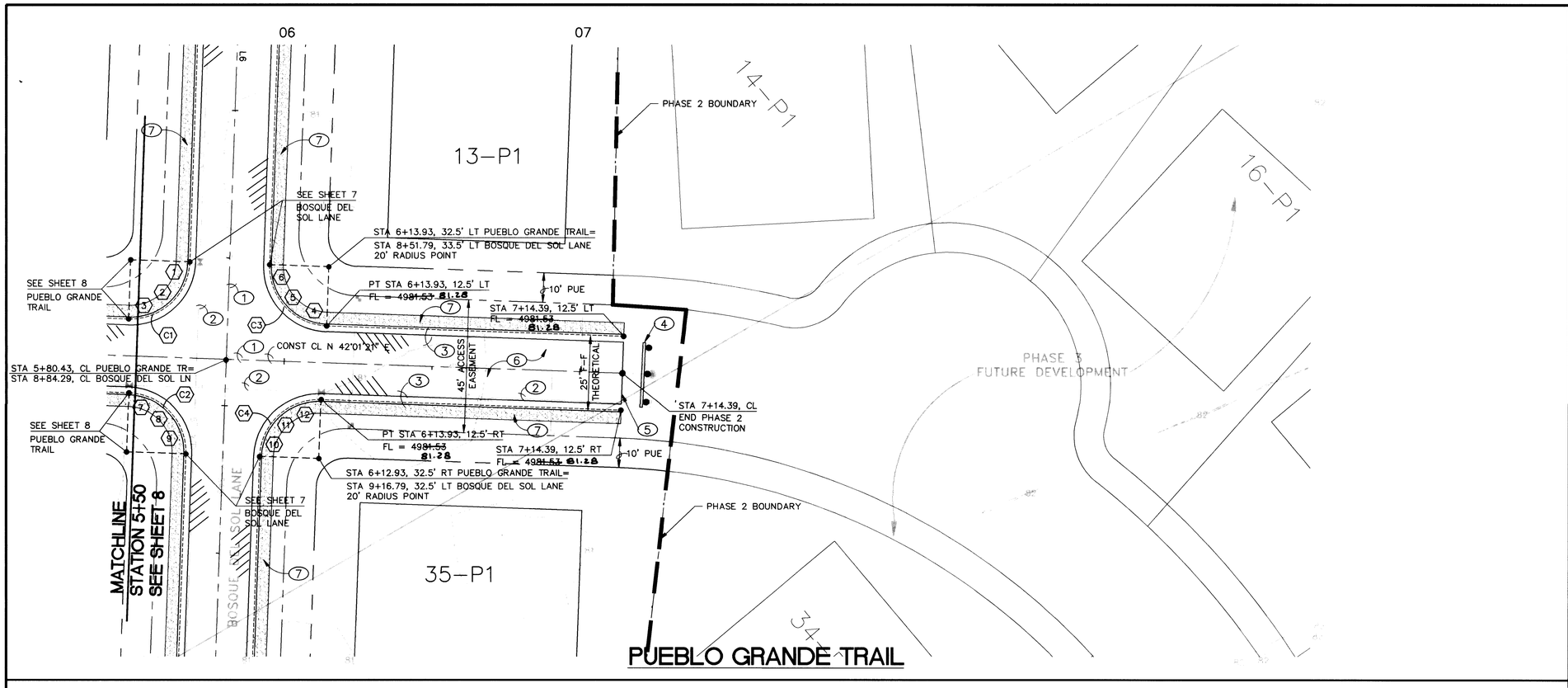

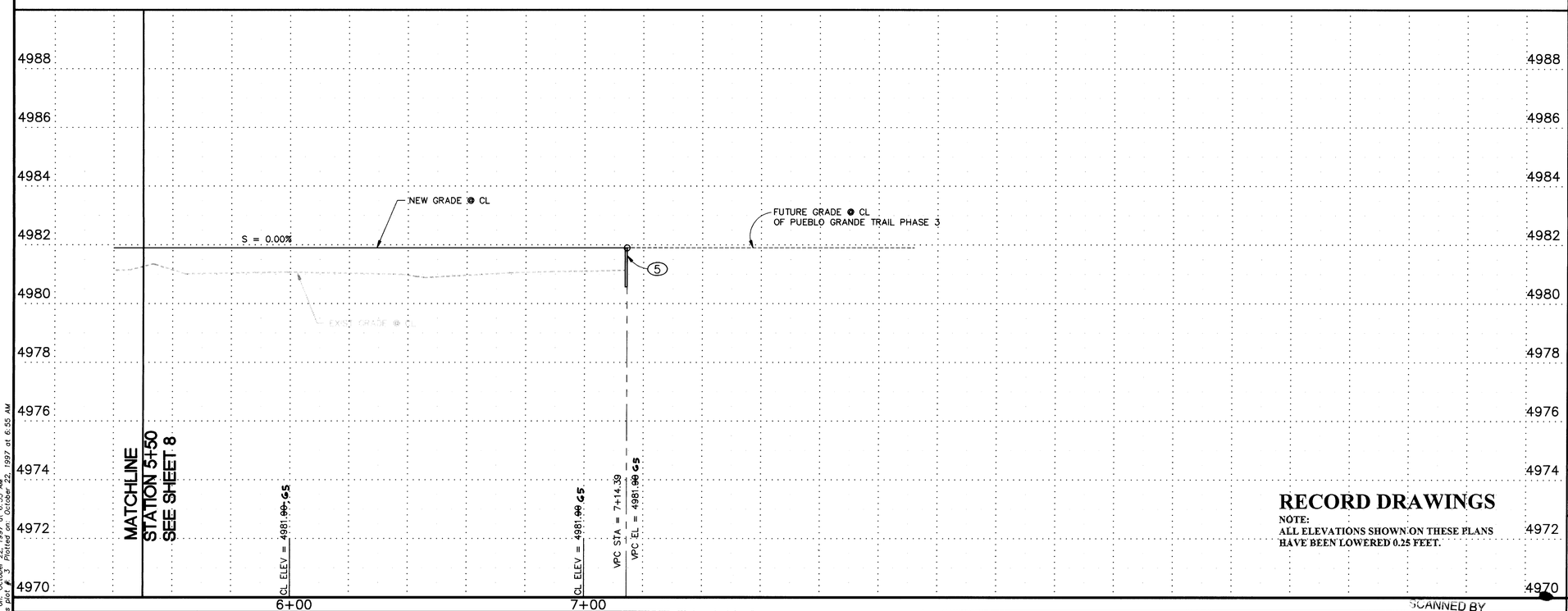

KEYED NOTES:

1. CONSTRUCT NEW 3" PRESSURE SANITARY SEWER. SEE UTILITY PLAN AND PROFILE SHEETS 13–19 FOR DETAILS.
2. CONSTRUCT NEW 6" PVC WATER LINE. SEE UTILITY PLAN AND PROFILE SHEETS 13–20 FOR DETAILS.
3. CONSTRUCT NEW ESTATE TYPE CURB PER COA STD DWG 2415.
4. NEW TYPE III BARRICADE WITH RED AND WHITE STRIPING. SEE MUTCD, 1992 ED. FOR DETAILS.
5. CONSTRUCT CUT–OFF WALL FROM LIP (LT) TO LIP (RT) AT END OF ROADWAY (PHASE TWO) PER COA STD DWG 2415.
6. SEE SHEET 22 FOR STREET SECTION.
7. CONSTRUCT 4–FOOT GRAVEL SHOULDER. SEE TYPICAL ROAD SECTION, SHEET 22.

C1 CURVE DATA

NUMBER	DELTA	RADIUS	TANGENT	ARC LENGTH
C1	90°00'00"	20.00	20.00	31.42
C2	90°00'00"	20.00	20.00	31.42
C3	90°00'00"	20.00	20.00	31.42
C4	90°00'00"	20.00	20.00	31.42

1 CURB RETURN DATA

POINT NO.	~~BOTTOM~~ TOP OF CURB	FLOW LINE
1	4981.~~47~~ 22	4981.~~52~~ 27
2	4981.~~47~~ 22	4981.~~52~~ 27
3	4981.~~48~~ 23	4981.~~53~~ 28
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9	4981.~~48~~ 23	4981.~~53~~ 28
10	4981.~~48~~ 23	4981.~~53~~ 28
11	4981.~~48~~ 23	4981.~~53~~ 28
12	4981.~~48~~ 23	4981.~~53~~ 28

N

Vertical Scale: 1" = 2'

Horizontal Scale: 1"=20'

197629
Smith Engineering Company
A Full Service Engineering Company
5460 Osuna Boulevard, N.E. Suite 5000 Albuquerque, New Mexico 87110

RECORD DRAWINGS
NOTE:
ALL ELEVATIONS SHOWN ON THESE PLANS HAVE BEEN LOWERED 0.25 FEET.

SCANNED BY
BY LASON

AS BUILT INFORMATION
CONTRACTOR NEW CONCEPTS
WORK STAKED BY CSC DATE 3/98
SUPERVISION ACCEPTANCE BY CSC DATE 4/98
FIELD VERIFICATION BY CSC DATE 4/98
DRAWINGS CORRECTED BY CSC DATE 5/98
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
U.S.COE STA. "R.ALAMEDA B-2"
N.M. STATE PLAN COORDINATES (CENTRAL ZONE) BY ACS
X=373,513.20
Y=1,520,142.81
ELEVATION=5,058.25
G/G FACTOR=0.99967638

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
4071	GAYLE JEWELL	07/97

ENGINEERS SEAL
PATRICK A. CONLEY NEW MEXICO 10141 REGISTERED PROFESSIONAL ENGINEER
10/23/97

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGN

		DATE
DESIGNED BY	AJG / BAC	10/23/97
DRAWN BY	BAC	10/23/97
CHECKED BY	PJC	10/23/97

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: BOSQUE DEL RIO SUBDIVISION - PHASE 2
PAVING P & P: PUEBLO GRANDE TRAIL: STA 5+50 TO 7+14.39

Design Review Committee: APPROVED DEC 19 1997 DESIGN REVIEW COMMITTEE
City Engineer Approval
Last Design Update | Mo. / Day / Yr. | Mo. / Day / Yr.

City Project No. 540682 | Zone Map No. D-13 | Sheet 9 Of 23

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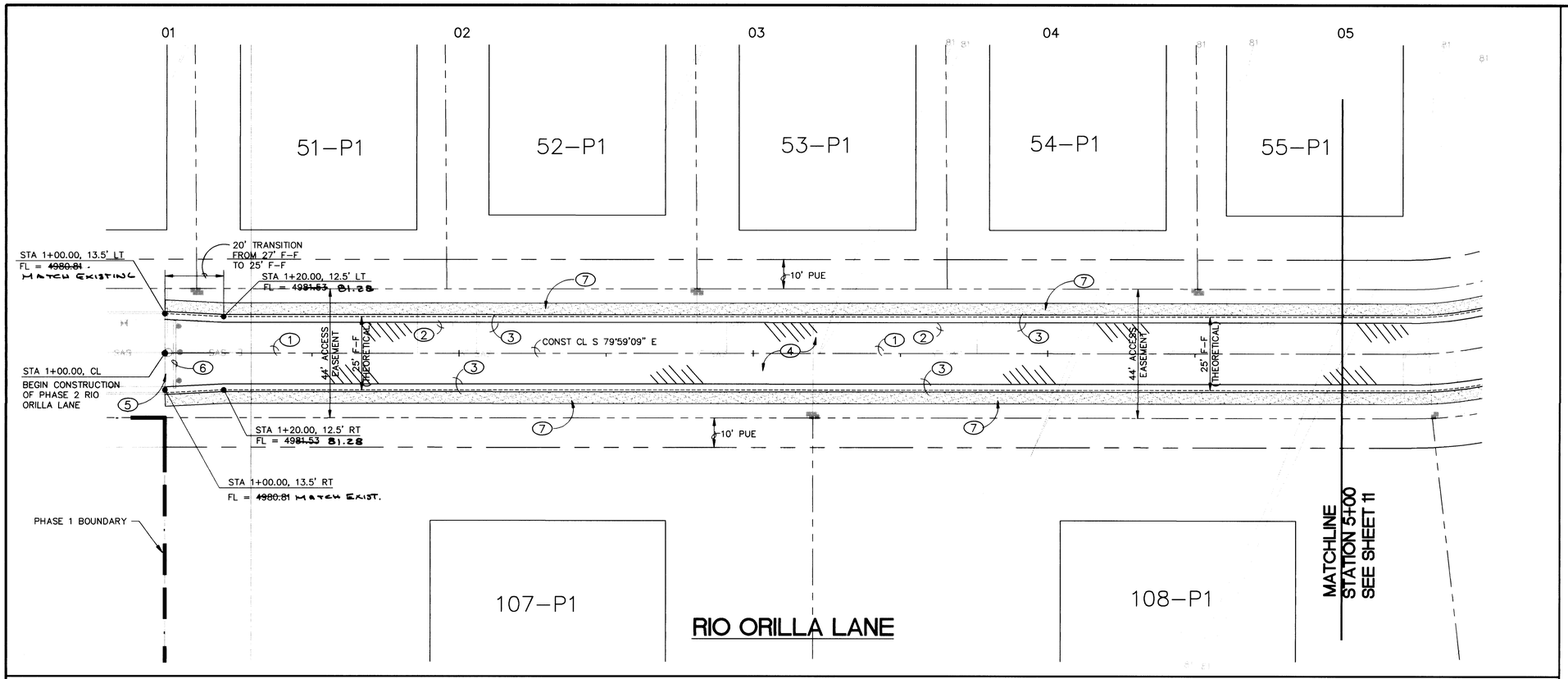
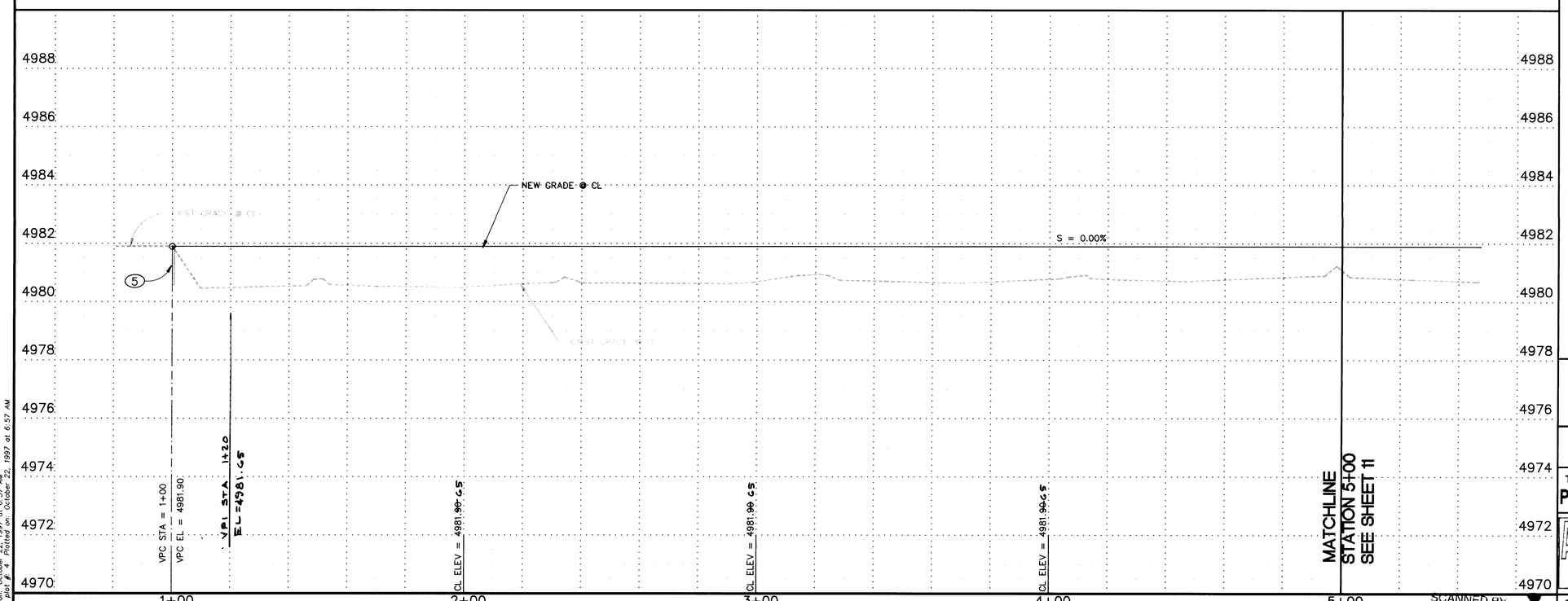


KEYED NOTES:

1. CONSTRUCT NEW 3" PRESSURE SANITARY SEWER. SEE UTILITY PLAN AND PROFILE SHEETS 13–19 FOR DETAILS.
2. CONSTRUCT NEW 10" PVC WATER LINE. SEE UTILITY PLAN AND PROFILE SHEETS 13–20 FOR DETAILS.
3. CONSTRUCT NEW ESTATE TYPE CURB PER COA STD DWG 2415.
4. SEE SHEET 22 FOR STREET SECTION.
5. REMOVE AND DISPOSE OF EXISTING CUT–OFF WALL. MATCH EXISTING GRADE OF RIO ORILLA LANE, PHASE 1.
6. REMOVE AND RELOCATE TYPE III BARRICADE TO END OF RIO ORILLA LANE PHASE 2 CONSTRUCTION.
7. CONSTRUCT 4–FOOT GRAVEL SHOULDER. SEE TYPICAL ROAD SECTION, SHEET 22.



SCANNED BY LASON

RECORD DRAWINGS

NOTE:
ALL ELEVATIONS SHOWN ON THESE PLANS HAVE BEEN LOWERED 0.25 FEET.

N

Vertical Scale: 1" = 2'

Horizontal Scale: 1"=20'

197629
Smith Engineering Company
A Full Service Engineering Company
5400 Uptown Boulevard, N.E. Suite 200E Albuquerque, New Mexico 87110

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: BOSQUE DEL RIO SUBDIVISION - PHASE 2

PAVING P & P: RIO ORILLA LANE: STA 1+00 TO 5+00

Design Review Committee: APPROVED DEC 19 1997 DESIGN REVIEW COMMITTEE

City Engineer Approval

Last Design Update | No. / Day / Yr. | No. / Day / Yr.

City Project No. 540682 | Zone Map No. D-13 | Sheet 10 Of 23

AS BUILT INFORMATION
CONTRACTOR NEW CONCEPTS
WORK STAKED BY CSC DATE 3/98
INSPECTOR'S ACCEPTANCE BY CSC DATE 4/98
FIELD VERIFICATION BY CSC DATE 4/98
DRAWINGS CORRECTED BY CSC DATE 5/98
MICRO–FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
U.S.C.&G.S. STA. "R.ALAMEDA B–2"
N.M. STATE PLAN COORDINATES (CENTRAL ZONE) BY ACS
X=373,513.20
Y=1,520,142.81
ELEVATION=5,058.25
G/G FACTOR=0.99967638

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
4071	GAYLE JEWELL	07/97

ENGINEERS SEAL
PATRICK J. CONLEY NEW MEXICO 10141 REGISTERED PROFESSIONAL ENGINEER
10/23/97

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGNED BY AJG / BAC DATE 10/23/97
DRAWN BY BAC DATE 10/23/97
CHECKED BY PJC DATE 10/23/97

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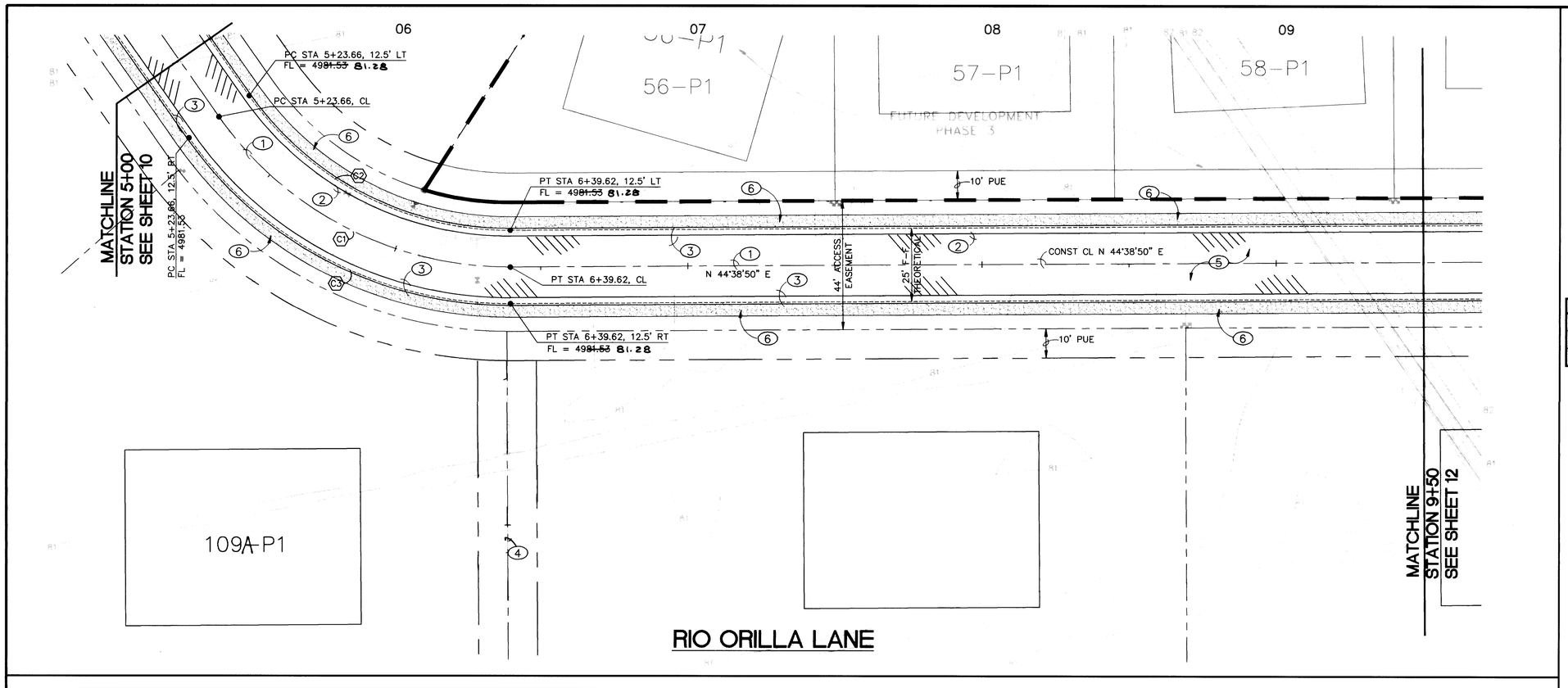
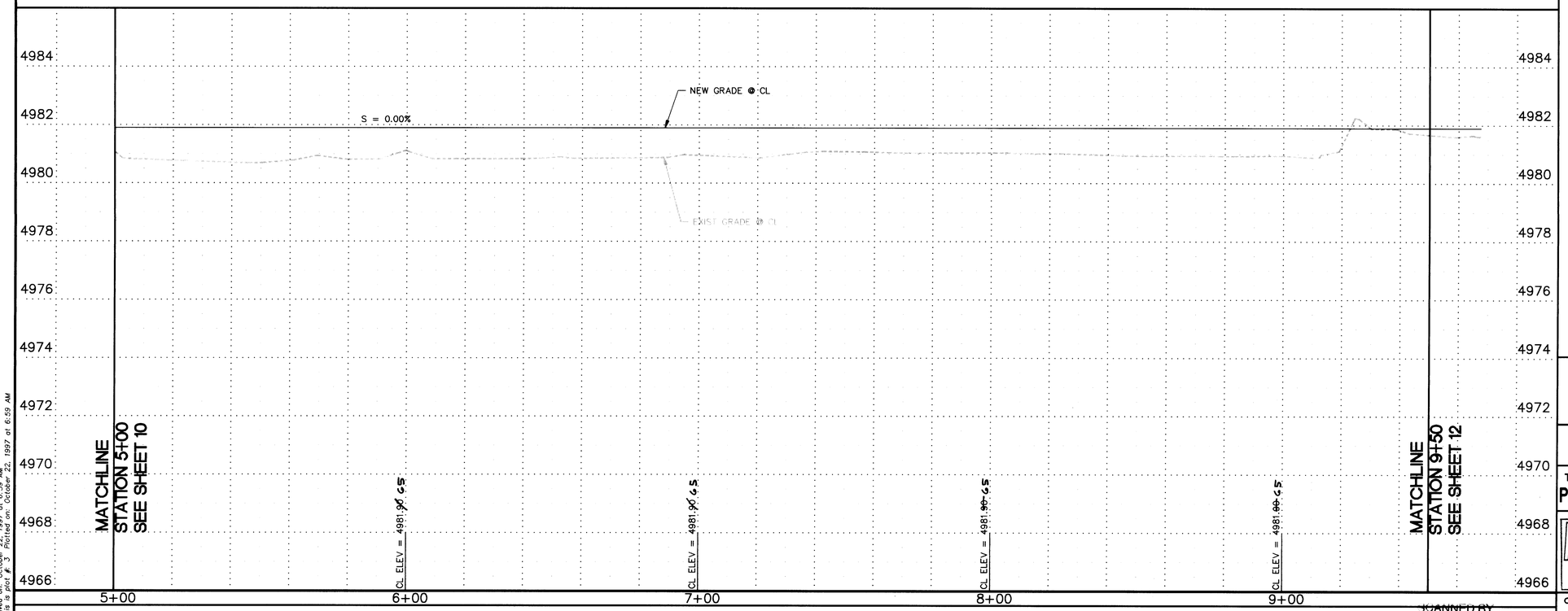


KEYED NOTES:

1. CONSTRUCT NEW 3" PRESSURE SANITARY SEWER. SEE UTILITY PLAN AND PROFILE SHEETS 13–19 FOR DETAILS.
2. CONSTRUCT NEW 10" PVC WATER LINE. SEE UTILITY PLAN AND PROFILE SHEETS 13–20 FOR DETAILS.
3. CONSTRUCT NEW ESTATE TYPE CURB PER PER COA STD DWG 2415.
4. CONSTRUCT NEW 10" PVC WATERLINE. SEE SHEET 20 FOR DETAILS.
5. SEE SHEET 22 FOR STREET SECTION.
6. CONSTRUCT 4–FOOT GRAVEL SHOULDER. SEE TYPICAL ROAD SECTION, SHEET 22.

CURVE DATA

NUMBER	DELTA	RADIUS	TANGENT	ARC LENGTH
C1	55°22'01"	120.00	62.96	115.96
C2	55°22'01"	107.50	56.40	103.88
C3	55°22'01"	132.50	69.52	128.04



RECORD DRAWINGS

NOTE:
ALL ELEVATIONS SHOWN ON THESE PLANS HAVE BEEN LOWERED 0.25 FEET.

Vertical Scale: 1" = 2'

Horizontal Scale: 1"=20'

197629

Smith Engineering Company
A Full Service Engineering Company
5400 Uptown Boulevard, N.E. Suite 500E Albuquerque, New Mexico 87110

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: BOSQUE DEL RIO SUBDIVISION - PHASE 2

PAVING P & P: RIO ORILLA LANE: STA 5+00 TO 9+50

Design Review Committee: APPROVED DEC 19 1997 DESIGN REVIEW COMMITTEE

City Engineer Approval

Last Design Update | No. / Day / Yr. | No. / Day / Yr.

City Project No. 540682 | Zone Map No. D-13 | Sheet 11 Of 23

AS BUILT INFORMATION
CONTRACTOR NEW CONCEPTS
WORK STAKED BY CSC DATE 5/98
INSPECTOR ACCEPTANCE BY CSC DATE 4/98
FIELD VERIFICATION BY CSC DATE 4/98
DRAWINGS CORRECTED BY CSC DATE 5/98
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
U.S.COE STA. "R.ALAMEDA B-2"
N.M. STATE PLAN COORDINATES (CENTRAL ZONE) BY ACS
X=373,513.20
Y=1,520,142.81
ELEVATION=5,058.25
G/G FACTOR=0.999676338

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
4071	GAYLE JEWELL	07/97

ENGINEERS SEAL
PATRICK A. CONLEY NEW MEXICO 10141 REGISTERED PROFESSIONAL ENGINEER
10/23/97

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGN

		DATE
DESIGNED BY	AJG / BAC	10/23/97
DRAWN BY	BAC	10/23/97
CHECKED BY	PJC	10/23/97

Drawing name: N:\197629\OPTION1\1PP4P.DWG
Sheet name: 2PAVING PLAN & PROFILE
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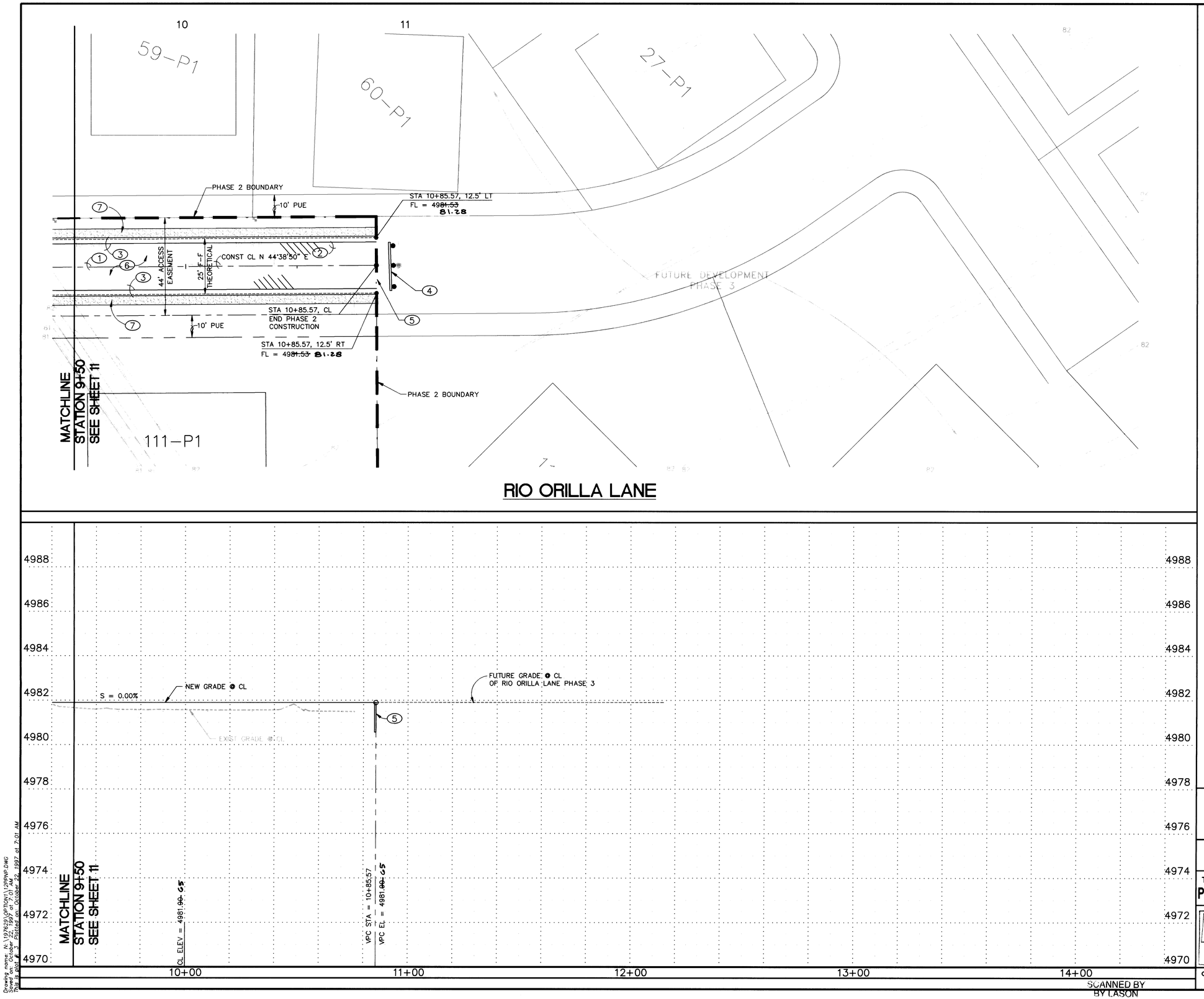
SCANNED BY
BY LASON



RIO ORILLA LANE

KEYED NOTES:

1. CONSTRUCT NEW 3" PRESSURE SANITARY SEWER. SEE UTILITY PLAN AND PROFILE SHEETS 13–19 FOR DETAILS.
2. CONSTRUCT NEW 10" PVC WATER LINE. SEE UTILITY PLAN AND PROFILE SHEETS 13–20 FOR DETAILS.
3. CONSTRUCT NEW ESTATE TYPE CURB PER PER COA STD DWG 2415.
4. REUSE EXISTING BARRICADE FROM BEGINNING OF RIO ORILLA LANE CONSTRUCTION. SEE TYPE III BARRICADE WITH RED AND WHITE STRIPING PER MUTCD, 1992 ED FOR DETAILS.
5. CONSTRUCT CUT–OFF WALL FROM LIP (LT) TO LIP (RT) AT END OF ROADWAY (PHASE TWO) PER COA STD DWG 2415.
6. SEE SHEET 22 FOR STREET SECTION.
7. CONSTRUCT 4–FOOT GRAVEL SHOULDER. SEE TYPICAL ROAD SECTION, SHEET 22.

RECORD DRAWINGS

NOTE:
ALL ELEVATIONS SHOWN ON THESE PLANS HAVE BEEN LOWERED 0.25 FEET.

Vertical Scale: 1" = 2'

Horizontal Scale: 1"=20'

197629
Smith Engineering Company
A Full Service Engineering Company
5400 Uptown Boulevard, N.E. Suite 500E Albuquerque, New Mexico 87110

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: BOSQUE DEL RIO SUBDIVISION - PHASE 2
PAVING P & P: RIO ORILLA LANE: STA 9+50 TO 10+85.57

Design Review Committee: APPROVED DEC 19 1997 DESIGN REVIEW COMMITTEE

City Engineer Approval

Last Design Update | No. / Day / Yr. | No. / Day / Yr.

City Project No. 540682 | Zone Map No. D-13 | Sheet 12 Of 23

AS BUILT INFORMATION
CONTRACTOR NEW CONCEPTS
WORK STAKED BY CSC DATE 5/98
INSPECTED FOR ACCEPTANCE BY CSC DATE 6/98
FIELD VERIFICATION BY CSC DATE 4/98
DRAWINGS CORRECTED BY CSC DATE 5/98
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
U.S.COE STA. "R.ALAMEDA B-2"
N.M. STATE PLAN COORDINATES (CENTRAL ZONE) BY ACS
X=373,513.20
Y=1,520,142.81
ELEVATION=5,058.25
G/G FACTOR=0.99996738

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
4071	GAYLE JEWELL	07/97

ENGINEERS SEAL
PATRICK J. CONLEY NEW MEXICO 10141 REGISTERED PROFESSIONAL ENGINEER
10/23/97

REVISIONS

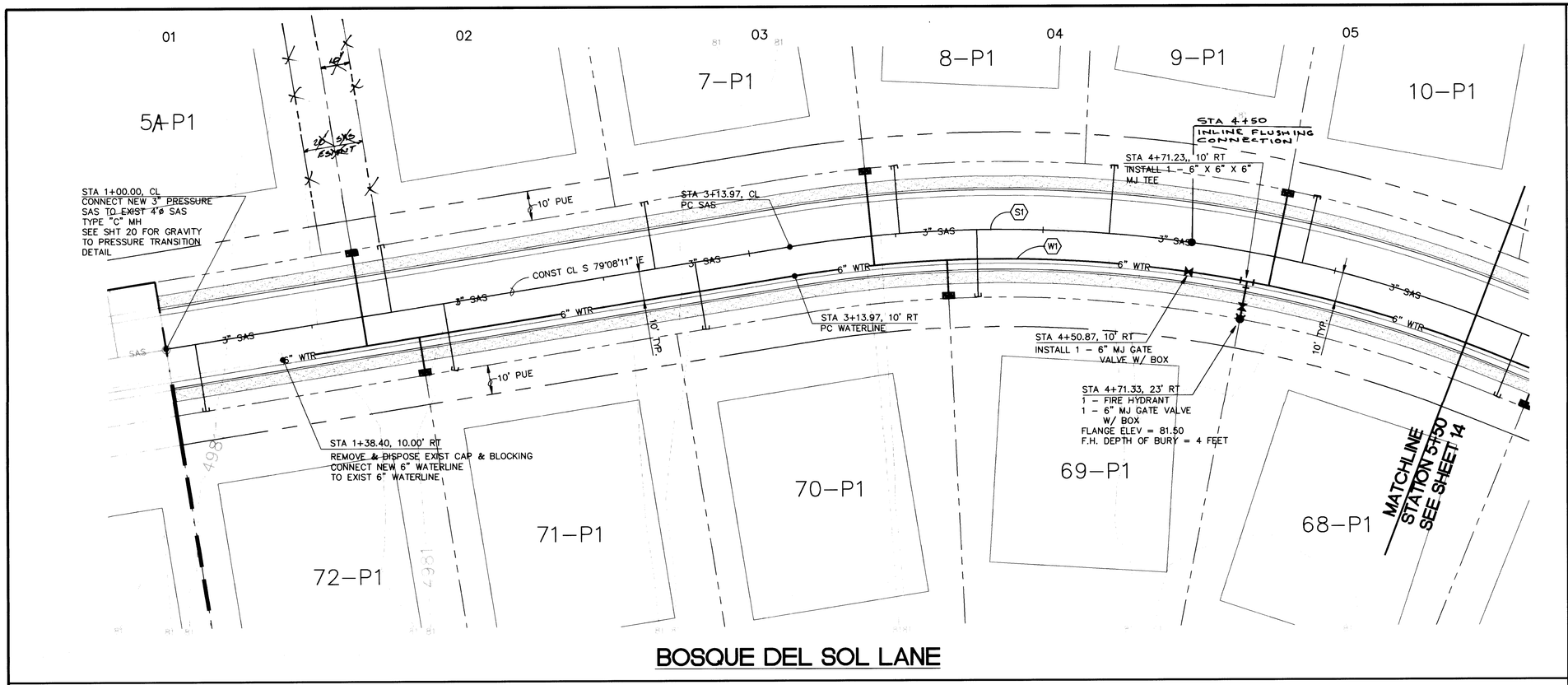
NO.	DATE	REMARKS	BY

DESIGN

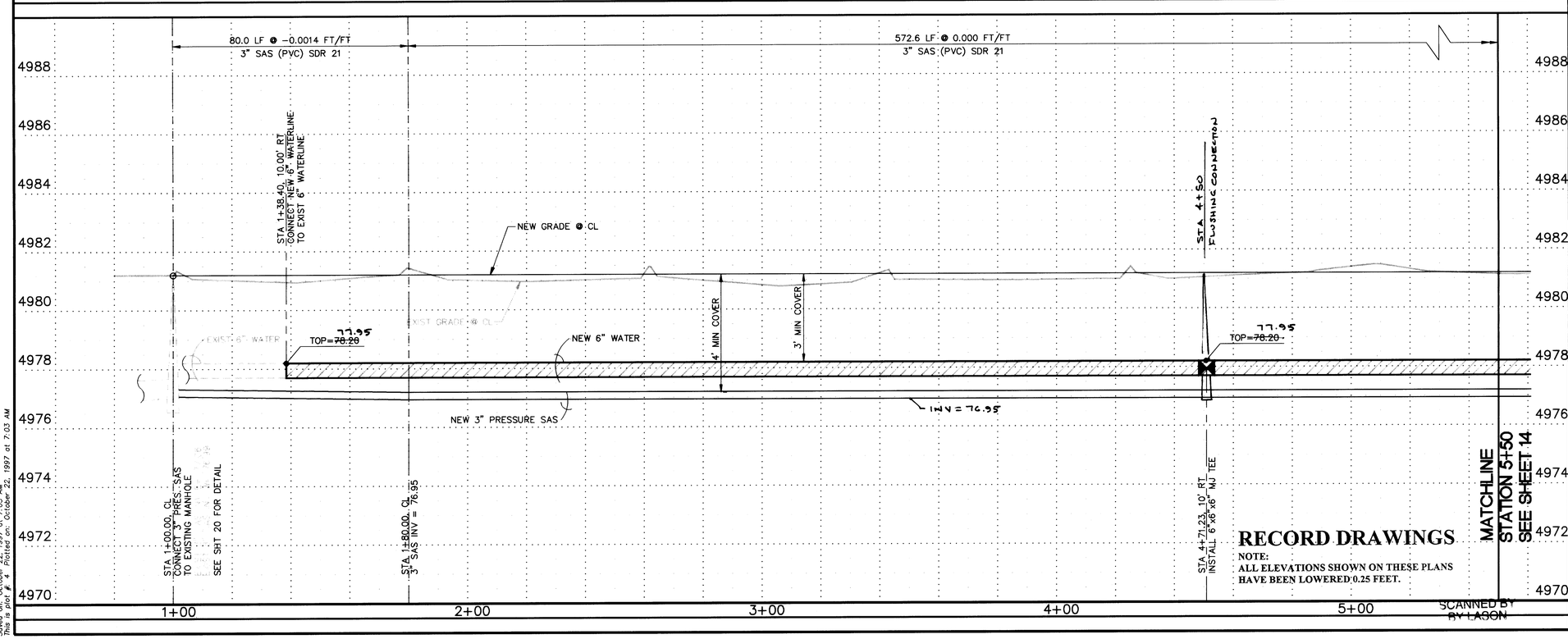
		DATE
DESIGNED BY	AJG / BAC	10/23/97
DRAWN BY	BAC	10/23/97
CHECKED BY	PJC	10/23/97

Drawing name: N:\197629\OPTION1\12PPNP.DWG
Saved on October 22, 1997 at 7:01 AM
This plot was made on October 22, 1997 at 7:01 AM

SCANNED BY
BY LASON



BOSQUE DEL SOL LANE



RECORD DRAWINGS

NOTE:
ALL ELEVATIONS SHOWN ON THESE PLANS HAVE BEEN LOWERED 0.25 FEET.

SCANNED BY
~~BY LASON~~

GENERAL NOTES:

1. ALL WATERLINE FITTINGS TO BE RESTRAINED "MJ". SEE RESTRAINT LENGTH TABLE THIS SHEET.
2. FOR WATER SERVICE CONNECTIONS SEE COA STD DWG 2363.
3. FOR SANITARY SERVICE CONNECTIONS SEE DETAIL SHEET 21.
4. BACKFLOW PREVENTERS TO BE INSTALLED ON ALL WATER SERVICES.

(S1) SAS CURVE DATA

NUMBER	DELTA	RADIUS	TANGENT	ARC LENGTH
S1	31°09'32"	450.00	125.47	244.72

(W1) WATERLINE CURVE DATA

NUMBER	DELTA	RADIUS	TANGENT	ARC LENGTH
W1	31°09'32"	440.00	122.68	239.28

WATERLINE RESTRAINT LENGTHS:

LENGTH OF RESTRAINT FOR TEES

BRANCH SIZE	LENGTH OF RESTRAINT (FT)
6"x6"x6"	24'
10"x10"x6"	~~RESTRAIN BRANCH AT FITTING ONLY~~ 10'
10"x10"x10"	64'

* EACH PIPE RUN SHALL HAVE A MINIMUM OF 10' W/O JOINTS ON EACH SIDE OF BRANCH OR FITTINGS. FOR TEES RESTRAIN PIPE IN THREE DIRECTIONS.

LENGTH OF RESTRAINT FOR HORIZ BENDS, REDUCERS, VALVES AND DEAD ENDS

PIPE SIZE	11.25° ~~(0.79')~~	22.5° ~~(0.79')~~	45° ~~(0.79')~~	REDUCER SMALL SIDE	REDUCER LARGE SIDE	VALVE/ DEAD END
6"	10'	14'	~~19'~~ 10'	–	–	73'
10"	15'	21'	~~29'~~ 15'	116'	71'	115'

BOSQUE DEL SOL LANE SANITARY SEWER SERVICES

LOT NO.	STATION	OFFSET	LENGTH	INV ELEV AT P.L.	TYPE
~~5-P1~~	~~E X I S T I N G~~				
5A-P1 ~~6-P1~~	1+77.28	CL	23'	76.99	PRES
7-P1	2+67.75	CL	23'	~~76.95~~ 77.02	PRES
8-P1	3+51.33	CL	23'	~~76.95~~	PRES
9-P1	4+22.39	CL	23'	~~76.95~~	PRES
10-P1	4+88.47	CL	23'	~~76.95~~	PRES
69-P1	3+77.52	CL	23'	~~76.95~~	PRES
70-P1	2+81.40	CL	23'	~~76.95~~	PRES
71-P1	1+95.20	CL	23'	~~76.95~~	PRES
72-P1	1+10.00	CL	23'	~~76.95~~	PRES

BOSQUE DEL SOL LANE WATER SERVICES

LOT NO.	STATION	LENGTH	SIZE	TYPE
~~5-P1~~ 5A-P1 ~~6-P1~~	1+67.28	10'RT	3/4"	DBL
7-P1 ~~8-P1~~	3+41.82	10'RT	3/4"	DBL
9-P1 10-P1	4+78.97	10'RT	3/4"	DBL
69-P1 70-P1	3+66.99	10'RT	3/4"	DBL
71-P1 72-P1	1+85.20	10'RT	3/4"	DBL

Vertical Scale: 1" = 2'

Horizontal Scale: 1"=20'

Smith Engineering Company
A Full Service Engineering Company
5400 Uptown Boulevard, N.E. Suite 500E Albuquerque, New Mexico 87110
197629

AS BUILT INFORMATION
CONTRACTOR NEW CONCEPTS
WORK STAKED BY: CSC DATE 5/98
INSPECTOR'S ACCEPTANCE BY: CSC DATE 6/98
FIELD VERIFICATION BY: CSC DATE 6/98
DRAWINGS CORRECTED BY: CSC DATE 5/98
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
U.S.C.&G.S. STA. "R.ALAMEDA B-2"
N.M. STATE PLAN COORDINATES (CENTRAL ZONE) BY ACS
X=373,513.20
Y=1,520,142.81
ELEVATION=5,058.25
G/S FACTOR=0.99996763

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
4071	GAYLE JEWELL	07/97

ENGINEERS SEAL
PATRICK J. CONLEY NEW MEXICO 10141 REGISTERED PROFESSIONAL ENGINEER
10/23/97

NO.	DATE	REMARKS	BY
		REVISIONS	

		DATE
DESIGNED BY	AJG / BAC	10/23/97
DRAWN BY	BAC	10/23/97
CHECKED BY	PJC	10/23/97

DESIGN

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: BOSQUE DEL RIO SUBDIVISION - PHASE 2
UTILITY P & P: BOSQUE DEL SOL LANE: STA 1+00 TO 5+50

Design Review Committee: APPROVED DEC 19 1997 DESIGN REVIEW COMMITTEE

City Engineer Approval

Last Design Update | No. / Day / Yr. | No. / Day / Yr.

City Project No. 540682 | Zone Map No. D-13 | Sheet 13 Of 23

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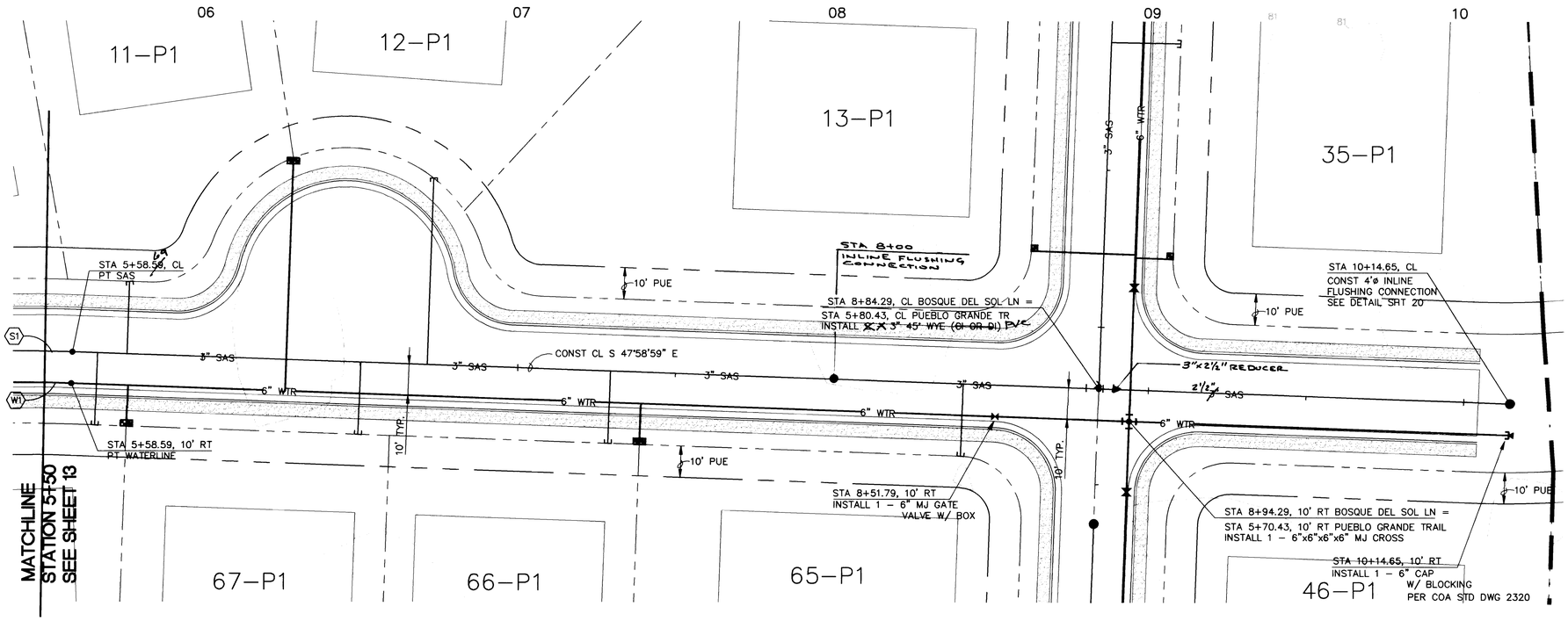
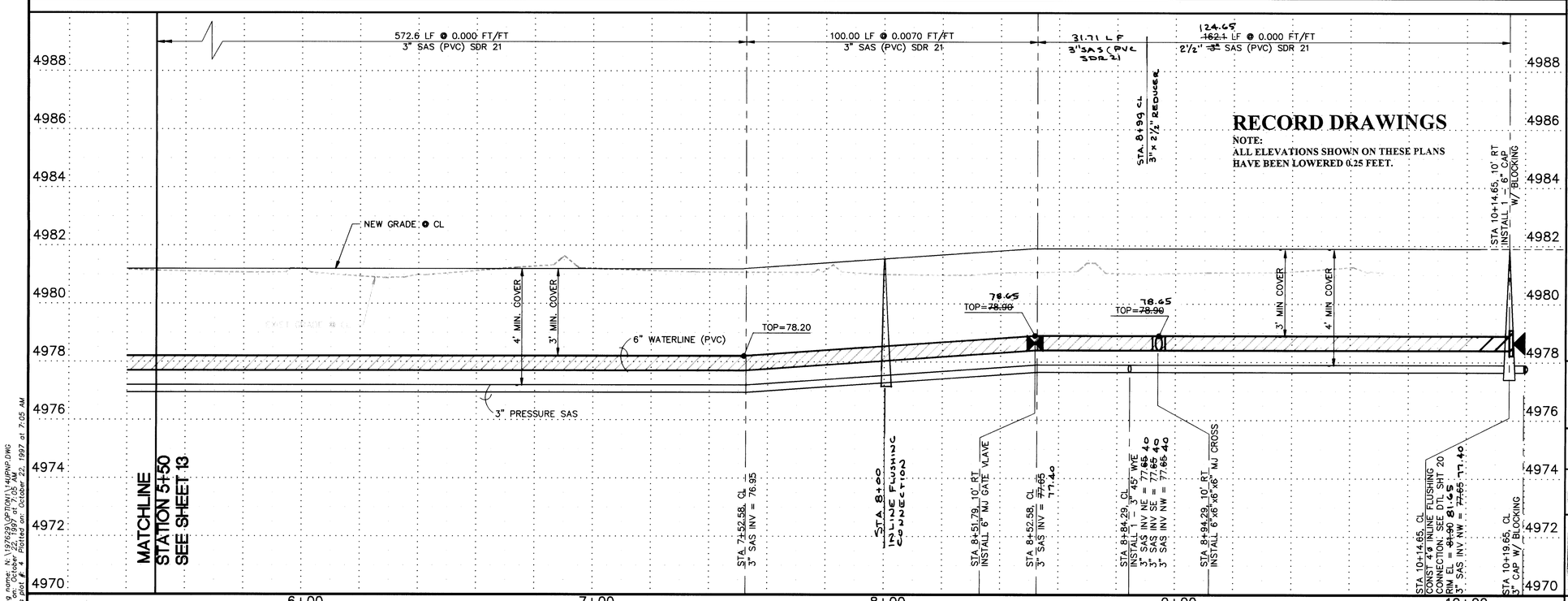
Saved on October 23, 1997 at 7:03 AM
Time plot & Plotted on October 22, 1997 at 7:03 AM



BOSQUE DEL SOL LANE



GENERAL NOTES:

1. ALL WATERLINE FITTINGS TO BE RESTRAINED "MJ". SEE RESTRAINT LENGTH TABLE THIS SHEET.
2. FOR WATER SERVICE CONNECTIONS SEE COA STD DWG 2363.
3. FOR SANITARY SERVICE CONNECTIONS SEE DETAIL SHEET 21.
4. BACKFLOW PREVENTERS TO BE INSTALLED ON ALL WATER SERVICES.

(S1) SAS CURVE DATA

NUMBER	DELTA	RADIUS	TANGENT	ARC LENGTH
S1	31°09'32"	450.00	125.47	244.72

(W1) WATERLINE CURVE DATA

NUMBER	DELTA	RADIUS	TANGENT	ARC LENGTH
W1	31°09'32"	440.00	122.68	239.28

WATERLINE RESTRAINT LENGTHS:

LENGTH OF RESTRAINT FOR TEES

BRANCH SIZE	LENGTH OF RESTRAINT (FT)
6"x6"x6"	24'
10"x10"x6"	~~RESTRAIN BRANCH AT FITTING ONLY~~ 10'
10"x10"x10"	64'

- EACH PIPE RUN SHALL HAVE A MINIMUM OF 10' W/O JOINTS ON EACH SIDE OF BRANCH OR FITTINGS. FOR TEES RESTRAIN PIPE IN THREE DIRECTIONS.

LENGTH OF RESTRAINT FOR HORIZ BENDS, REDUCERS, VALVES AND DEAD ENDS

PIPE SIZE	11.25° ~~30.79~~	45°	22.5° ~~60.89~~	REDUCER* SMALL SIDE	REDUCER* LARGE SIDE	VALVE/ DEAD END
6"	10'	14'	~~10'~~ 10'	–	–	73'
10"	15'	21'	~~22'~~ 15'	116'	71'	115'

BOSQUE DEL SOL LANE SANITARY SEWER SERVICES

LOT NO.	STATION	OFFSET	LENGTH	INV ELEV AT PL	TYPE	
11–P1	5+75.99	CL	23'	~~76.95~~	PRES	77.03
12–P1	6+71.24	CL	59'	~~78.95~~	PRES	77.03
65–P1	8+41.29	CL	23'	~~77.57~~	PRES	77.41
66–P1	7+29.44	CL	23'	~~76.95~~	PRES	77.02
67–P1	6+50.15	CL	23'	~~76.95~~	PRES	77.03
68–P1	5+66.65	CL	23'	~~76.95~~	PRES	77.02

BOSQUE DEL SOL LANE WATER SERVICES

LOT NO.	STATION	LENGTH	SIZE	TYPE
11–P1	6+26.51	10'RT	3/4"	DBL
12–P1				
65–P1	7+39.44	10'RT	3/4"	DBL
66–P1				
67–P1	5+76.65	10'RT	3/4"	DBL
68–P1				

Vertical Scale: 1" = 2'

Horizontal Scale: 1"=20'

197629
Smith Engineering Company
A Full Service Engineering Company
5460 Uptown Boulevard, N.E. Suite 5002 Albuquerque, New Mexico 87110

AS BUILT INFORMATION
CONTRACTOR, NEW CONCEPTS
WORK STAKED BY: CSC DATE 3/98
INSPECTOR ACCEPTANCE BY: CSC DATE 4/98
FIELD VERIFICATION BY: CSC DATE 4/98
DRAWINGS CORRECTED BY: CSC DATE 5/98
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
U.S.C.&G.S. STA. "R.ALAMEDA B-2"
N.M. STATE PLAN COORDINATES (CENTRAL ZONE) BY ACS
X=373,513.20
Y=1,520,142.81
ELEVATION=5,058.25
G/G FACTOR=0.999676738

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
4071	GAYLE JEWELL	07/97

ENGINEERS SEAL
PATRICK J. O'NEILL
NEW MEXICO
10143
REGISTERED PROFESSIONAL ENGINEER
10/23/97

NO.	DATE	REMARKS	BY
		~~RECORD DRAWINGS~~	

REVISIONS

DESIGN		DATE
DESIGNED BY	AJG / BAC	10/23/97
DRAWN BY	BAC	10/23/97
CHECKED BY	PJC	10/23/97

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: BOSQUE DEL RIO SUBDIVISION - PHASE 2
UTILITY P & P: BOSQUE DEL SOL LANE: STA 5+50 TO 10+04.65

Development Committee: APPROVED DEC 19 1997
City Engineer Approval
Last Design Update
No. / Day / Yr. | No. / Day / Yr.

City Project No. 540682 | Zone Map No. D-13 | Sheet 14 Of 23

Drawing name: N:\97629\OPTION\14UPNP.DWG
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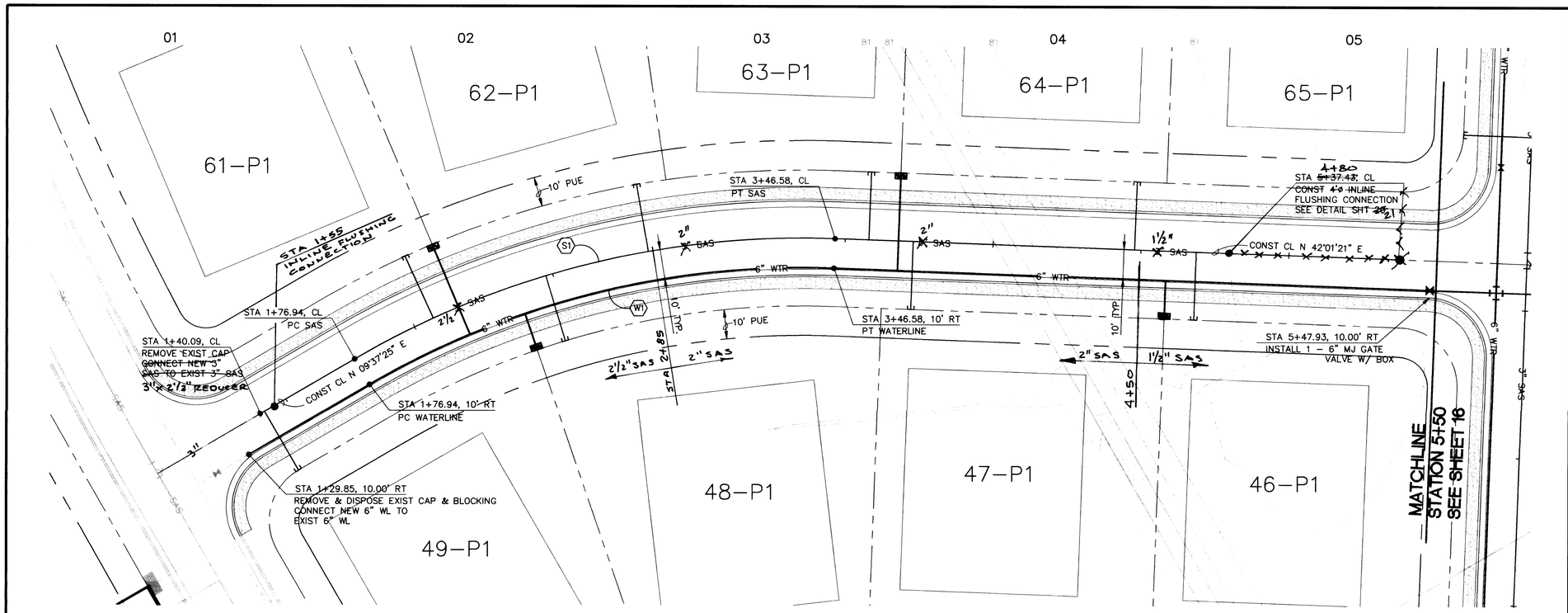
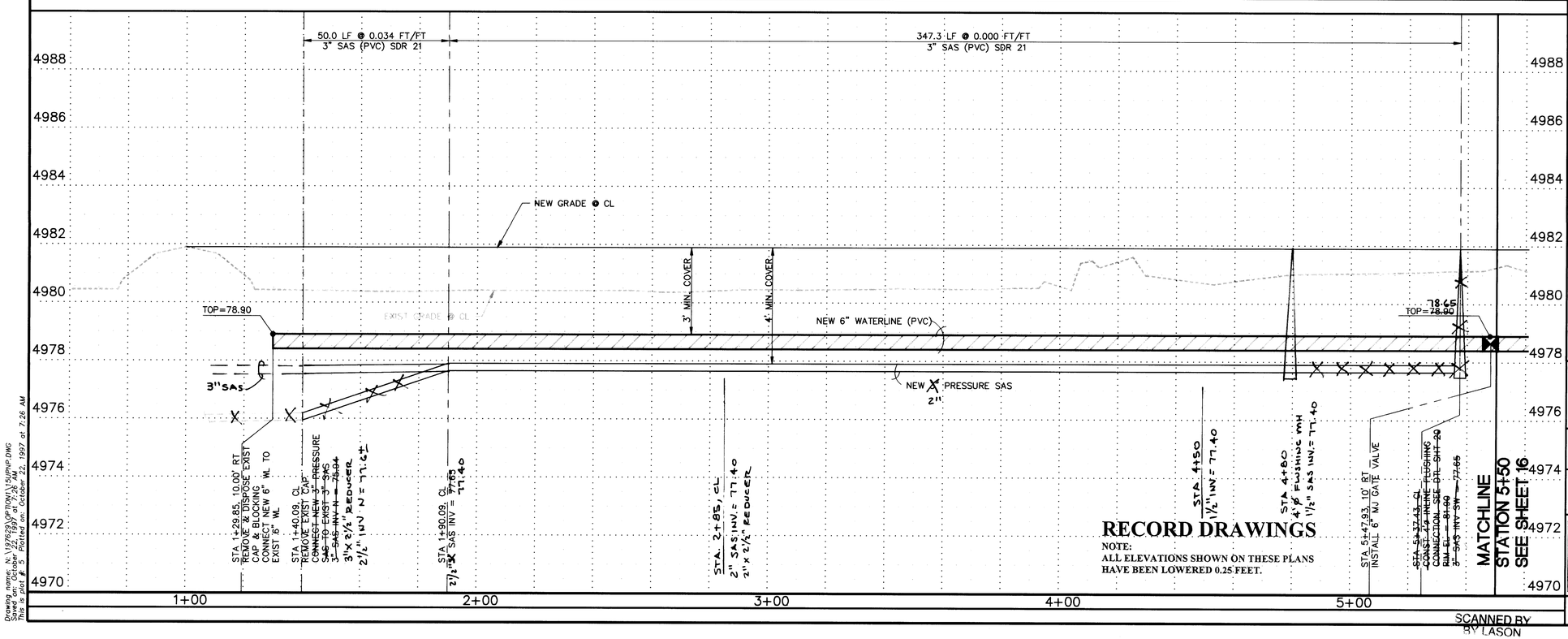
SCANNED BY
BY LASON



PUEBLO GRANDE TRAIL



RECORD DRAWINGS

NOTE:
ALL ELEVATIONS SHOWN ON THESE PLANS HAVE BEEN LOWERED 0.25 FEET.

GENERAL NOTES:

1. ALL WATERLINE FITTINGS TO BE RESTRAINED "MJ". SEE RESTRAINT LENGTH TABLE THIS SHEET.
2. FOR WATER SERVICE CONNECTIONS SEE COA STD DWG 2363.
3. FOR SANITARY SERVICE CONNECTIONS SEE DETAIL SHEET 21.
4. BACKFLOW PREVENTERS TO BE INSTALLED ON ALL WATER SERVICES.

(S1) SAS CURVE DATA

NUMBER	DELTA	RADIUS	TANGENT	ARC LENGTH
S1	32°23'56"	300.00	87.15	169.64

(W1) WATERLINE CURVE DATA

NUMBER	DELTA	RADIUS	TANGENT	ARC LENGTH
W1	32°23'56"	290.02	84.26	164.00

WATERLINE RESTRAINT LENGTHS:

LENGTH OF RESTRAINT FOR TEES

BRANCH SIZE	LENGTH OF RESTRAINT (FT)
6"x6"x6"	24'
10"x10"x6"	~~RESTRAIN BRANCH AT FITTING ONLY~~ 10'
10"x10"x10"	64'

- EACH PIPE RUN SHALL HAVE A MINIMUM OF 10' W/O JOINTS ON EACH SIDE OF BRANCH OR FITTINGS. FOR TEES RESTRAIN PIPE IN THREE DIRECTIONS.

LENGTH OF RESTRAINT FOR HORIZ BENDS, REDUCERS, VALVES AND DEAD ENDS

PIPE SIZE	11.25° ~~30.70°~~	45°	22.5° ~~56.25°~~	REDUCER* SMALL SIDE	REDUCER* LARGE SIDE	VALVE/ DEAD END
6"	10'	14'	~~14'~~ 10'	–	–	73'
10"	15'	21'	~~27'~~ 19'	116'	71'	115'

PUEBLO GRANDE TRAIL SANITARY SEWER SERVICES

LOT NO.	STATION	OFFSET	LENGTH	INV ELEV AT PL	TYPE
46–P1	4+68.66	CL	23'	77.65	PRES
47–P1	3+73.01	CL	23'	77.65	PRES
48–P1	2+47.55	CL	23'	77.65	PRES
49–P1	1+~~41.74~~ 43	CL	23'	76.02	PRES
61–P1	2+06.94	CL	23'	77.65	PRES
62–P1	2+83.23	CL	23'	77.65	PRES
63–P1	3+57.99	CL	23'	77.65	PRES
64–P1	4+47.86	CL	23'	77.65	PRES

INV=77.45

PUEBLO GRANDE TRAIL WATER SERVICES

LOT NO.	STATION	OFFSET	SIZE	TYPE
46–P1	4+58.66	10'RT	3/4"	DBL
47–P1				
48–P1	2+36.72	10'RT	3/4"	DBL
49–P1				
61–P1	2+16.22	10'RT	3/4"	DBL
62–P1				
63–P1	3+67.99	10'RT	3/4"	DBL
64–P1				

Vertical Scale: 1" = 2'

Horizontal Scale: 1"=20'

Smith Engineering Company
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5400 Uptown Boulevard, N.E. Suite 500E Albuquerque, New Mexico 87110
197629

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: BOSQUE DEL RIO SUBDIVISION - PHASE 2
UTILITY P & P: PUEBLO GRANDE TRAIL: STA 1+00 TO 5+50

Design Review Committee: APPROVED DEC 19 1997 DESIGN REVIEW COMMITTEE
City Engineer Approval
Last Design Update | No. / Day / Yr. | No. / Day / Yr.

City Project No. 540682 | Zone Map No. D-13 | Sheet 15 Of 23

AS BUILT INFORMATION
CONTRACTOR, NEW CONCEPTS
WORK STAKED BY CSC DATE 3/98
WORK INSPECTED BY CSC DATE 4/98
ACCEPTANCE BY CSC DATE 4/98
FIELD VERIFICATION BY CSC DATE 5/98
DRAWINGS CORRECTED BY CSC DATE 5/98
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
U.S.C.&G.S. STA. "R.ALAMEDA B-2"
N.M. STATE PLAN COORDINATES (CENTRAL ZONE), BY ACS
X=373,513.20
Y=1,520,142.81
ELEVATION=5,058.25
G/S FACTOR=0.99967638

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
4071	GAYLE JEWELL	07/97

ENGINEERS SEAL
PATRICK J. CONLEY NEW MEXICO 10141 REGISTERED PROFESSIONAL ENGINEER
10/27/97

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

		DATE
DESIGNED BY	AJG / BAC	10/23/97
DRAWN BY	BAC	10/23/97
CHECKED BY	PJC	10/23/97

SCANNED BY BY LASON

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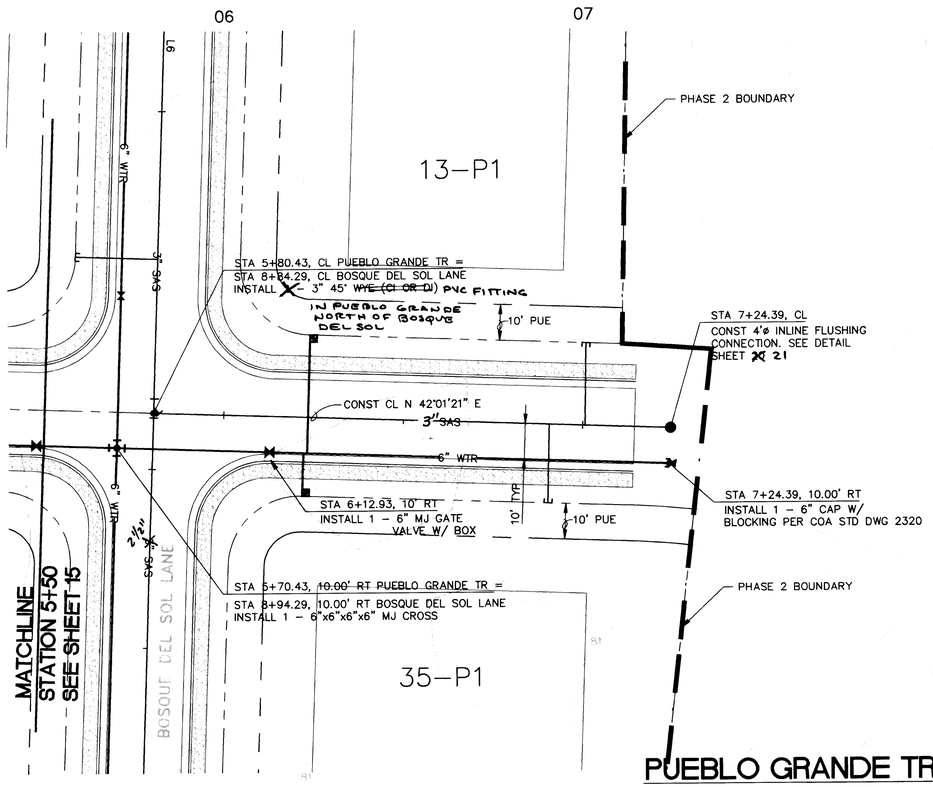
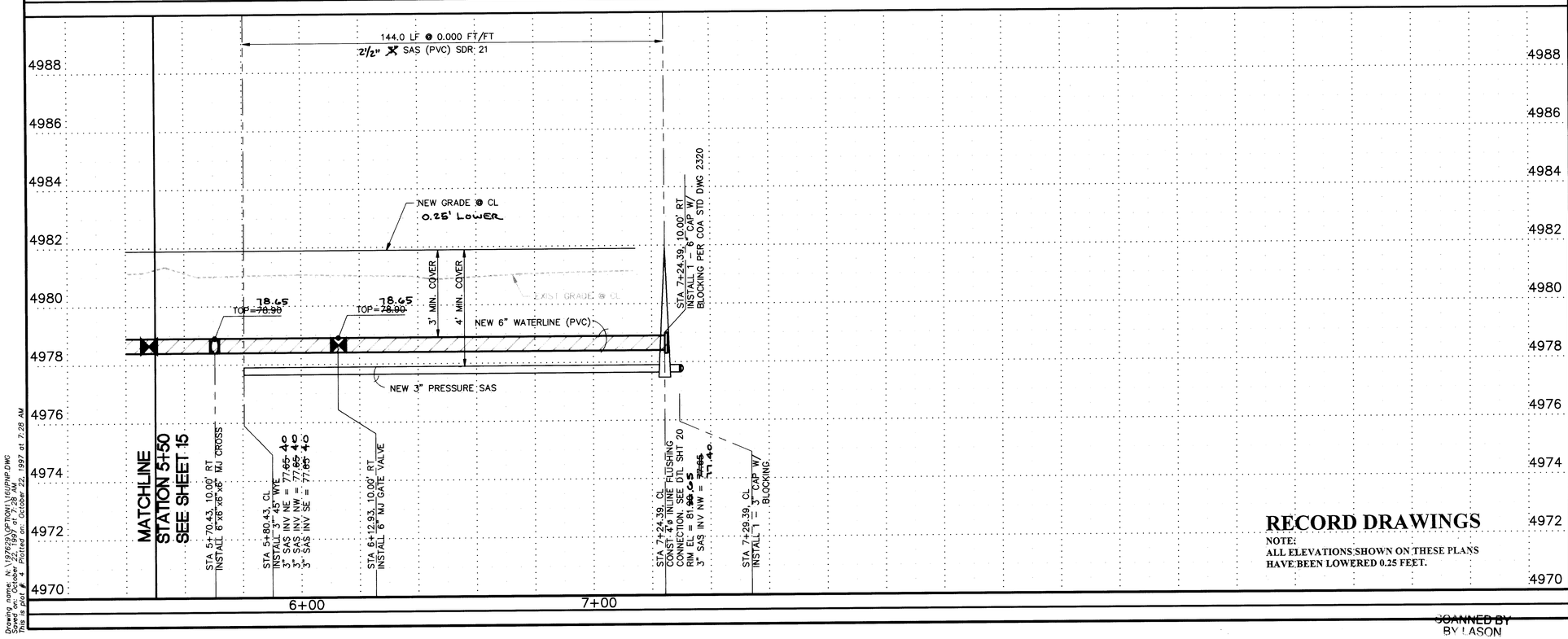


PUEBLO GRANDE TRAIL



GENERAL NOTES:

1. ALL WATERLINE FITTINGS TO BE RESTRAINED "MJ". SEE RESTRAINT LENGTH TABLE THIS SHEET.
2. FOR WATER SERVICE CONNECTIONS SEE COA STD DWG 2363.
3. FOR SANITARY SERVICE CONNECTIONS SEE DETAIL SHEET 21.
4. BACKFLOW PREVENTERS TO BE INSTALLED ON ALL WATER SERVICES.

WATERLINE RESTRAINT LENGTHS:

LENGTH OF RESTRAINT FOR TEES

BRANCH SIZE	LENGTH OF RESTRAINT (FT)
6"x6"x6"	24'
10"x10"x6"	~~RESTRAIN BRANCH AT FITTING ONLY~~ 10'
10"x10"x10"	64'

* EACH PIPE RUN SHALL HAVE A MINIMUM OF 10' W/O JOINTS ON EACH SIDE OF BRANCH OR FITTINGS. FOR TEES RESTRAIN PIPE IN THREE DIRECTIONS.

LENGTH OF RESTRAINT FOR HORIZ BENDS, REDUCERS, VALVES AND DEAD ENDS

PIPE SIZE	11.25° ~~22.5°~~	~~45°~~	22.5° ~~45°~~	REDUCER SMALL SIDE	REDUCER LARGE SIDE	VALVE/ DEAD END
6"	10'	14'	~~10'~~ 10'	–	–	73'
10"	15'	21'	~~27'~~ 15'	116'	71'	115'

PUEBLO GRANDE TRAIL SANITARY SEWER SERVICES

LOT NO.	STATION	OFFSET	LENGTH	INV ELEV AT PL	TYPE
13–P1	7+00.29	CL	23'	77.65	PRES
35–P1	6+90.96	CL	22'	77.65	PRES

PUEBLO GRANDE TRAIL WATER SERVICES

LOT NO.	STATION	OFFSET	SIZE	TYPE
13–P1	6+23.43	10'RT	3/4"	SNG
35–P1	6+22.43	10'RT	3/4"	SNG

Vertical Scale: 1" = 2'

Horizontal Scale: 1"=20'

197629

Smith Engineering Company
A Full Service Engineering Company
5400 Uptown Boulevard, N.E. Suite 500B Albuquerque, New Mexico 87110

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: BOSQUE DEL RIO SUBDIVISION - PHASE 2

UTILITY P & P: PUEBLO GRANDE TRAIL: STA 5+50 TO 7+14.39

RECORD DRAWINGS

NOTE:
ALL ELEVATIONS SHOWN ON THESE PLANS HAVE BEEN LOWERED 0.25 FEET.

Design Review Committee: APPROVED DEC 19 1997 DESIGN REVIEW COMMITTEE

City Engineer Approval

Last Design Update

No. / Day / Yr.	No. / Day / Yr.

City Project No. 540682 | Zone Map No. D-13 | Sheet 16 Of 23

AS BUILT INFORMATION
CONTRACTOR NEW CONCEPTS
WORK STAKED BY CSC DATE 3/98
INSPECTORS ACCEPTANCE BY CSC DATE 4/98
FIELD VERIFICATION BY CSC DATE 4/98
DRAWINGS CORRECTED BY CSC DATE 5/98
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
U.S.C.&G. STA. "R.ALAMEDA B-2"
N.M. STATE PLAN COORDINATES (CENTRAL ZONE) BY ACS
X=373,513.20
Y=1,520,142.81
ELEVATION=5,058.25
G/S FACTOR=0.9996763&

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
4071	GAYLE JEWELL	07/97

ENGINEERS SEAL
PATRICK J. CONLEY NEW MEXICO 10141 PROFESSIONAL ENGINEER
10/23/97

NO.	DATE	REMARKS	BY
		REVISIONS	

		DESIGN	DATE
DESIGNED BY	AJG / BAC		10/23/97
DRAWN BY	BAC		10/23/97
CHECKED BY	PJC		10/23/97

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Saved on: October 22, 1997 at 7:28 AM
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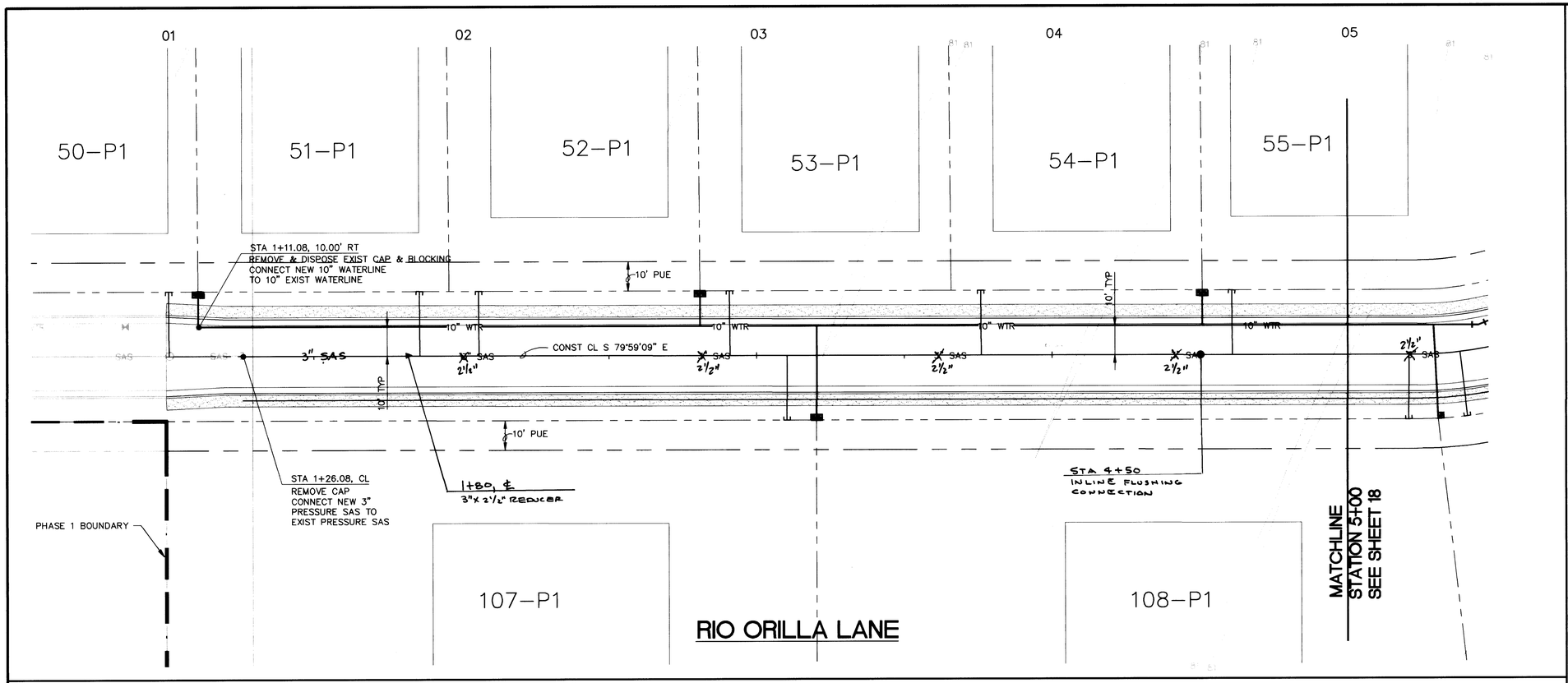
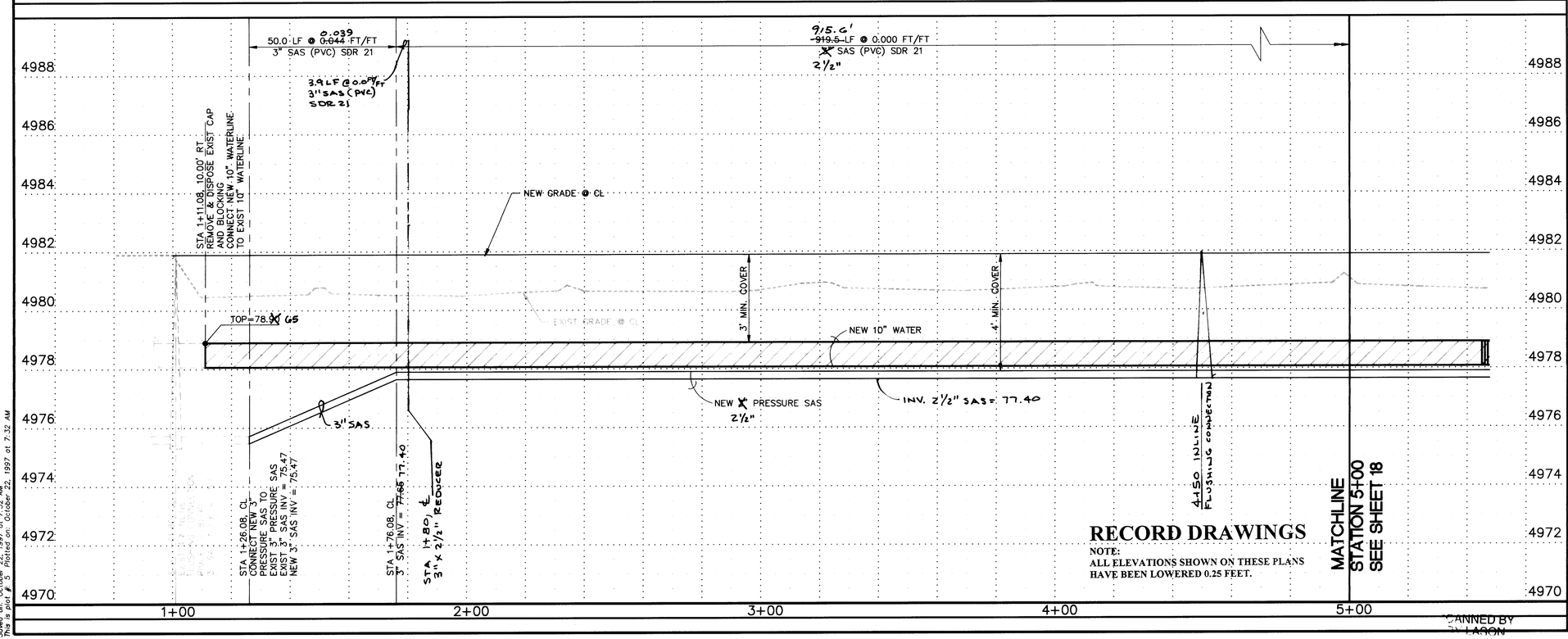
SCANNED BY
BY LASON





GENERAL NOTES:

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3. FOR SANITARY SERVICE CONNECTIONS SEE DETAIL SHEET 21.
4. BACKFLOW PREVENTERS TO BE INSTALLED ON ALL WATER SERVICES.

WATERLINE RESTRAINT LENGTHS:

LENGTH OF RESTRAINT FOR TEES

BRANCH SIZE	LENGTH OF RESTRAINT (FT)
6"x6"x6"	24'
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LENGTH OF RESTRAINT FOR HORIZ BENDS, REDUCERS, VALVES AND DEAD ENDS

PIPE SIZE	11.25° ~~30.75°~~	45°	22.5° ~~30.25°~~	REDUCER 10"x6" SMALL SIDE	REDUCER 10"x6" LARGE SIDE	VALVE/ DEAD END
6"	10'	14'	~~16'~~ 10'	–	–	73'
10"	15'	21'	~~27'~~ 19'	116'	71'	115'

RIO ORILLA LANE SANITARY SEWER SERVICES

LOT NO.	STATION	OFFSET	LENGTH	INV ELEV AT PL ~~75.47~~ 75.29	TYPE
50–P1	1+00.81	CL	22'		PRES
51–P1	1+85.81	CL	22'	77.65	PRES
52–P1	2+05.81	CL	22'	77.65	PRES
53–P1	2+90.81	CL	22'	77.65	PRES
54–P1	3+75.81	CL	22'	77.65	PRES
55–P1	4+60.81	CL	22'	77.65	PRES
107–P1	3+10.28	CL	22'	77.65	PRES

INV = 7.45

RIO ORILLA LANE WATER SERVICES

LOT NO.	STATION	OFFSET	SIZE	TYPE
50–P1	1+10.81	10'LT	3/4"	DBL
51–P1				
52–P1	2+80.81	10'LT	3/4"	DBL
53–P1				
54–P1	4+50.81	10'LT	3/4"	DBL
55–P1				
107–P1	3+20.28	10'LT	1"	DBL
108–P1				

N

Vertical Scale: 1" = 2'

Horizontal Scale: 1"=20'

Smith Engineering Company
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AS BUILT INFORMATION
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WORK STAKED BY CSC DATE 3/98
INSPECTED BY CSC DATE 4/98
ACCEPTANCE BY CSC DATE 4/98
FIELD VERIFICATION BY CSC DATE 4/98
DRAWINGS CORRECTED BY CSC DATE 5/98
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
U.S.COE STA. "R.ALAMEDA B-2"
N.M. STATE PLAN COORDINATES (CENTRAL ZONE) BY ACS
X=373,513.20
Y=1,520,142.81
ELEVATION=5,058.25
G/G FACTOR=0.99967638

SURVEY INFORMATION
FIELD NOTES
NO. 4071 BY GAYLE JEWELL DATE 07/97

ENGINEERS SEAL
PATRICK J. CONLEY
NEW MEXICO
10141
REGISTERED PROFESSIONAL ENGINEER
10/23/97

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGN

		DATE
DESIGNED BY	AJG / BAC	10/23/97
DRAWN BY	BAC	10/23/97
CHECKED BY	PJC	10/23/97

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: BOSQUE DEL RIO SUBDIVISION - PHASE 2
UTILITY P & P: RIO ORILLA LANE: STA 1+00 TO 5+00

Design Review Committee: APPROVED DEC 19 1997 DESIGN REVIEW COMMITTEE

City Engineer Approval

Last Design Update | No. / Day / Yr. | No. / Day / Yr.

City Project No. 540682 | Zone Map No. D-13 | Sheet 17 Of 23

RECORD DRAWINGS
NOTE:
ALL ELEVATIONS SHOWN ON THESE PLANS HAVE BEEN LOWERED 0.25 FEET.

SCANNED BY
T. LASON

Drawing name: N:\197629\OPTION1\OPTION1\TUPNP.DWG
Layout: Layout1 Plotted by: Jason Tyler
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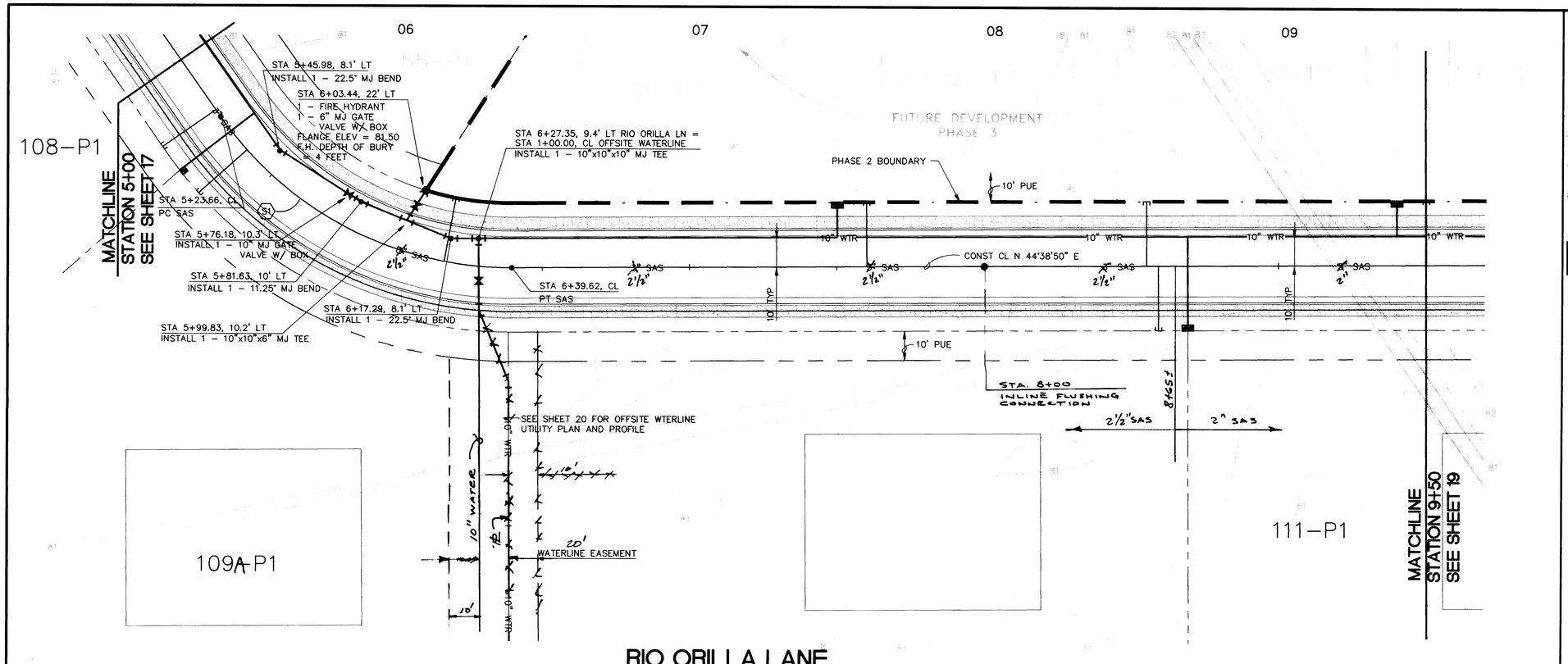
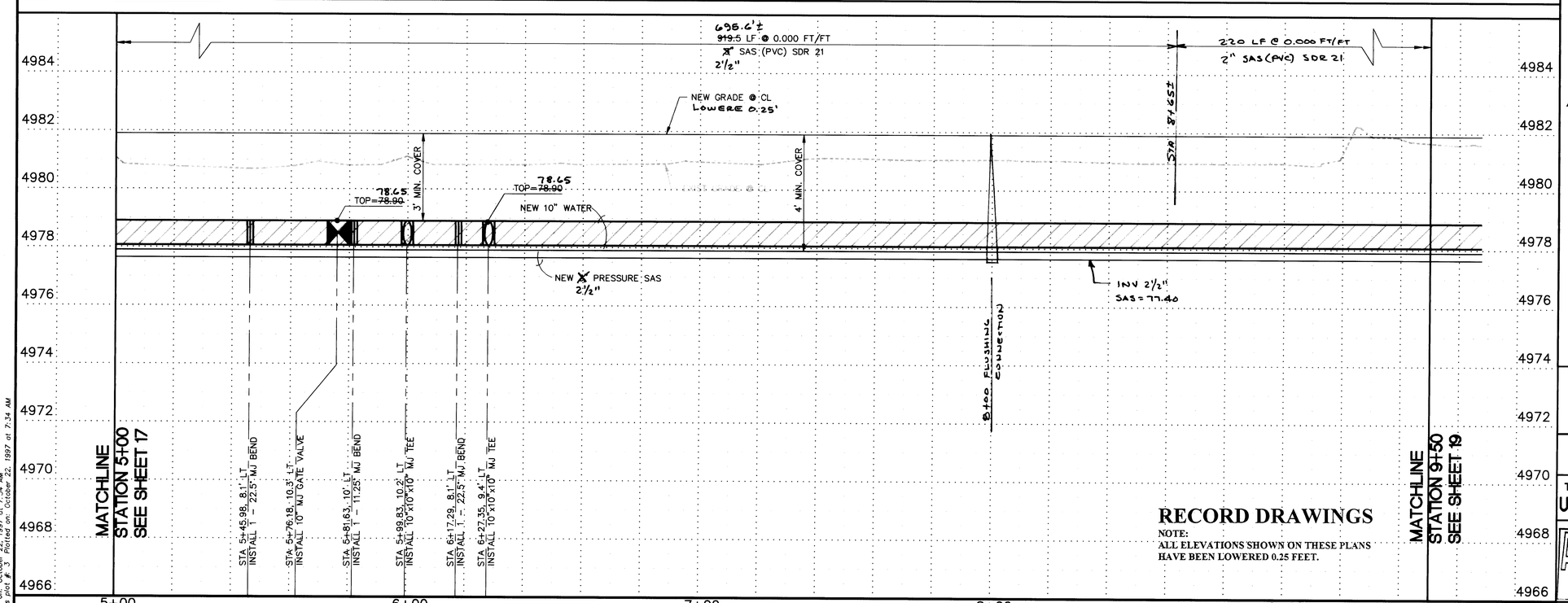


RIO ORILLA LANE



RECORD DRAWINGS

NOTE:
ALL ELEVATIONS SHOWN ON THESE PLANS HAVE BEEN LOWERED 0.25 FEET.

SCANNED BY
BY LASON

GENERAL NOTES:

1. ALL WATERLINE FITTINGS TO BE RESTRAINED "MJ". SEE RESTRAINT LENGTH TABLE, SHEET 20.
2. FOR WATER SERVICE CONNECTIONS SEE COA STD DWG 2363.
3. FOR SANITARY SERVICE CONNECTIONS SEE DETAIL SHEET 21.
4. SEE SHEET 21 FOR WATER AND SANITARY SEWER SERVICE STATION LOCATION INFORMATION.
5. BACKFLOW PREVENTERS TO BE INSTALLED ON ALL WATER SERVICES.

(S1) SAS CURVE DATA

NUMBER	DELTA	RADIUS	TANGENT	ARC LENGTH
S1	55°22'46"	120.00	62.96	115.96

WATERLINE RESTRAINT LENGTHS:

LENGTH OF RESTRAINT FOR TEES

BRANCH SIZE	LENGTH OF RESTRAINT (FT)
6"x6"x6"	24'
10"x10"x6"	~~RESTRAIN BRANCH* AT FITTING ONLY~~ 10'
10"x10"x10"	64'

* EACH PIPE RUN SHALL HAVE A MINIMUM OF 10' W/O JOINTS ON EACH SIDE OF BRANCH OR FITTINGS. FOR TEES RESTRAIN PIPE IN THREE DIRECTIONS.

LENGTH OF RESTRAINT FOR HORIZ BENDS, REDUCERS, VALVES AND DEAD ENDS

PIPE SIZE	11.25° ~~33.75°~~	45°	22.5° ~~60.25°~~	REDUCER* SMALL SIDE	REDUCER* LARGE SIDE	VALVE/ DEAD END
6"	10'	14'	~~18'~~ 10'	–	–	73'
10"	15'	21'	27' ~~15'~~	116'	71'	115'

10'x6"

RIO ORILLA LANE SANITARY SEWER SERVICES

LOT NO.	STATION	OFFSET	LENGTH	INV ELEV AT PL	TYPE
56-P1	6+16.38	CL	22'	~~77.65~~	PRES
57-P1	7+60.16	CL	22'	~~77.65~~	PRES
58-P1	8+55.16	CL	22'	~~77.65~~	PRES
108-P1	5+20.75	CL	22'	~~77.65~~	PRES
109A-P1	5+38.06	CL	22'	~~77.65~~	PRES
~~110-P1~~	8+59.09	CL	22'	77.65	PRES

INV = 77.45

109A-P1

RIO ORILLA LANE WATER SERVICES

LOT NO.	STATION	OFFSET	SIZE	TYPE
56-P1	7+50.16	10'LT	3/4"	DBL
57-P1				
58-P1	9+40.16	10'LT	3/4"	DBL
59-P1				
109A-P1	5+29.60	10'LT	1"	SNL
~~110-P1~~	8+69.09	10'LT	1"	DBL
111-P1				

Vertical Scale: 1" = 2'

Horizontal Scale: 1"=20'

Smith Engineering Company
A Full Service Engineering Company
5460 Ojiveras Boulevard, N.E. Suite 5000 Albuquerque, New Mexico 87110
197629

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: BOSQUE DEL RIO SUBDIVISION - PHASE 2
UTILITY P & P: RIO ORILLA LANE: STA 5+00 TO 9+50

Design Review Committee: APPROVED DEC 19 1997 DESIGN REVIEW COMMITTEE
City Engineer Approval
Last Design Update | No. / Day / Yr. | No. / Day / Yr.

City Project No. 540682 | Zone Map No. D-13 | Sheet 18 Of 23

AS BUILT INFORMATION
CONTRACTOR NEW CONCEPTS
WORK STAKED BY CSC DATE 3/98
INSPECTOR'S ACCEPTANCE BY CSC DATE 4/98
FIELD VERIFICATION BY CSC DATE 4/98
DRAWINGS CORRECTED BY CSC DATE 5/98
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
U.S.COE STA. "R.ALAMEDA B-2"
N.M. STATE PLAN COORDINATES (CENTRAL ZONE) BY ACS
X=373,513.20
Y=1,520,142.81
ELEVATION=5,058.25
G/G FACTOR=0.999967638

SURVEY INFORMATION
FIELD NOTES
NO. 4071 | BY GAYLE JEWELL | DATE 07/97

ENGINEERS SEAL
FRANK A. CHAVEZ JR. NEW MEXICO 10141 REGISTERED PROFESSIONAL ENGINEER
10/27/97

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

		DATE
DESIGNED BY	AJG / BAC	10/23/97
DRAWN BY	BAC	10/23/97
CHECKED BY	PJC	10/23/97

Drawing name: N:\197629\UTILITY\18UPW.DWG
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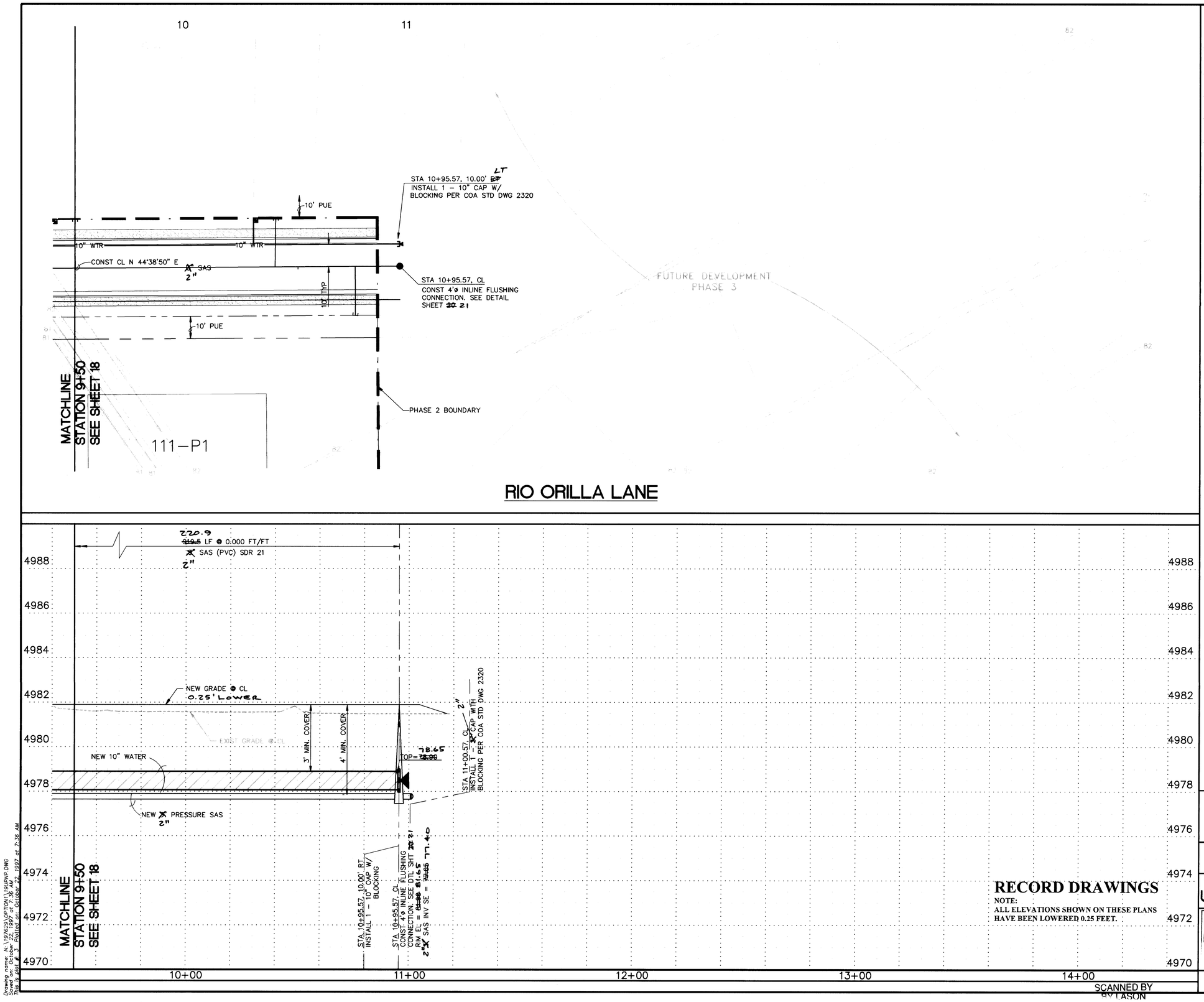

GENERAL NOTES:

1 ALL WATERLINE FITTINGS TO BE RESTRAINED "MJ". SEE RESTRAINT LENGTH TABLE, SHEET 20.

2 FOR WATER SERVICE CONNECTIONS SEE COA STD DWG 2363.

3 FOR SANITARY SERVICE CONNECTIONS SEE DETAIL SHEET 21.

4 SEE SHEET 20 FOR WATER AND SANITARY SEWER SERVICE STATION LOCATION INFORMATION.

5 BACKFLOW PREVENTERS TO BE INSTALLED ON ALL WATER SERVICES.

WATERLINE RESTRAINT LENGTHS:

LENGTH OF RESTRAINT FOR TEES

BRANCH SIZE	LENGTH OF RESTRAINT (FT)
6"x6"x6"	24'
10"x10"x6"	~~RESTRAIN BRANCH AT FITTING ONLY~~ 10'
10"x10"x10"	64'

* EACH PIPE RUN SHALL HAVE A MINIMUM OF 10' W/O JOINTS ON EACH SIDE OF BRANCH OR FITTINGS. FOR TEES RESTRAIN PIPE IN THREE DIRECTIONS.

LENGTH OF RESTRAINT FOR HORIZ BENDS, REDUCERS, VALVES AND DEAD ENDS

PIPE SIZE	11.25° ~~22.5°~~	45°	22.5° ~~90°~~	REDUCER* SMALL SIDE	REDUCER* LARGE SIDE	VALVE/ DEAD END
6"	10'	14'	~~18'~~ 10'	–	–	73'
10"	15'	21'	~~27'~~ 19'	116'	71'	115'

10x6

RIO ORILLA LANE SANITARY SEWER SERVICES

LOT NO.	STATION	OFFSET	LENGTH	INV ELEV AT PL	TYPE
60–P1	10+40.14	CL	22'	~~72.65~~	PRES
111–P1	10+75.57	CL	22'	~~72.65~~	PRES

INV=77.45

RIO ORILLA LANE WATER SERVICES

LOT NO.	STATION	OFFSET	SIZE	TYPE
60–P1	10+30.14	10'LT	3/4"	SNL

Vertical Scale: 1" = 2'

Horizontal Scale: 1"=20'

RECORD DRAWINGS

NOTE:
ALL ELEVATIONS SHOWN ON THESE PLANS HAVE BEEN LOWERED 0.25 FEET.

SCANNED BY
BY LASON

AS BUILT INFORMATION
CONTRACTOR NEW CONCEPTS
WORK STAKED BY CSC DATE 5/98
INSPECTED FOR ACCEPTANCE BY CSC DATE 6/98
FIELD VERIFICATION BY CSC DATE 6/98
DRAWINGS CORRECTED BY CSC DATE 5/98
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
U.S.COE STA. "R.ALAMEDA B-2"
N.M. STATE PLAN COORDINATES (CENTRAL ZONE) BY ACS
X=373,513.20
Y=1,520,142.81
ELEVATION=5,058.25
G/G FACTOR=0.999676.38

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
4071	GAYLE JEWELL	07/97

ENGINEERS SEAL
10/27/97

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

		DATE
DESIGNED BY	AJG / BAC	10/23/97
DRAWN BY	BAC	10/23/97
CHECKED BY	PJC	10/23/97

197629
Smith Engineering Company
A Full Service Engineering Company
5400 Uptown Boulevard, N.E. Suite 500B Albuquerque, New Mexico 87110

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: BOSQUE DEL RIO SUBDIVISION - PHASE 2
UTILITY P & P: RIO ORILLA LANE: STA 9+50 TO 10+85.57

Design Review Committee: APPROVED DEC 19 1997 DESIGN REVIEW COMMITTEE
City Engineer Approval
Last Design Update
No. / Day / Yr.
No. / Day / Yr.

City Project No. 540682
Zone Map No. D-13
Sheet 19 Of 23

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Plotted on October 21, 1997 at 7:36 AM
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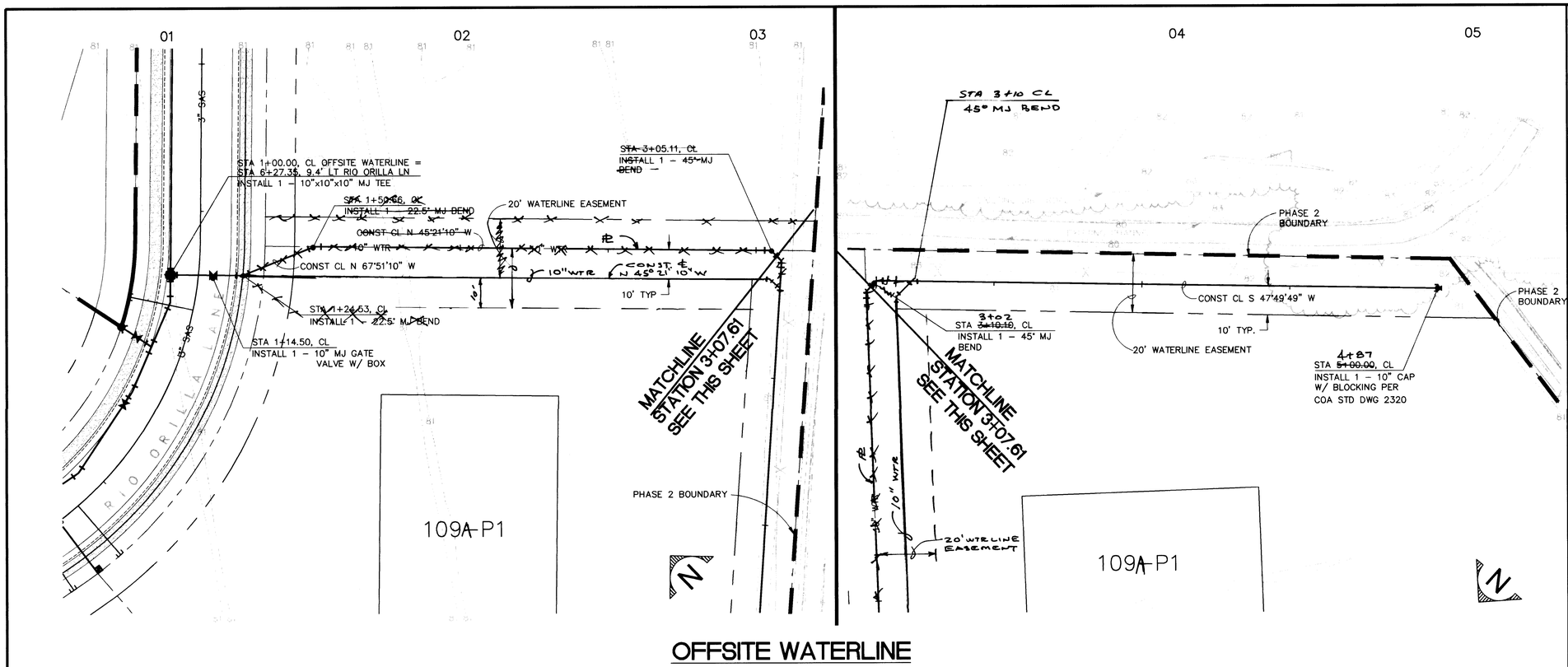
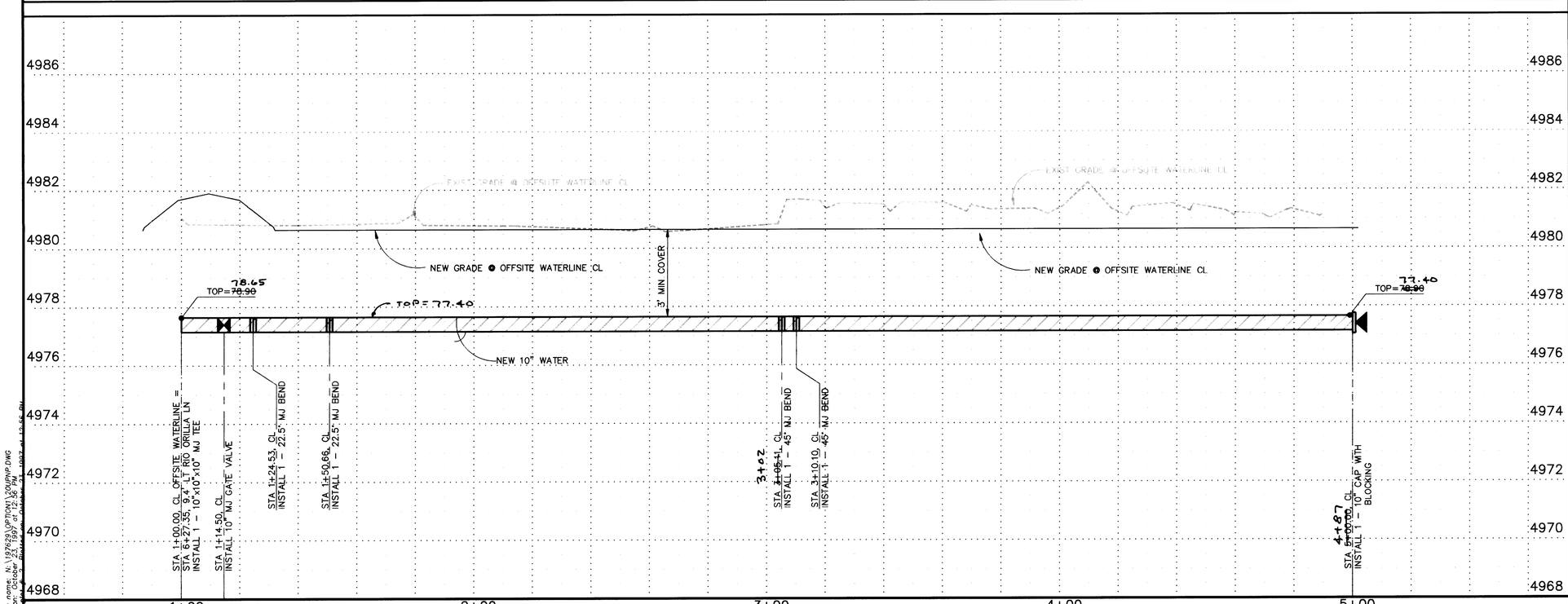


OFFSITE WATERLINE



SCANNED BY
BY LASON

WATERLINE RESTRAINT LENGTHS:

LENGTH OF RESTRAINT FOR TEES

BRANCH SIZE	LENGTH OF RESTRAINT (FT)
6"x6"x6"	24'
10"x10"x6"	~~RESTRAIN BRANCH AT FITTING ONLY~~ 10'
10"x10"x10"	64'

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LENGTH OF RESTRAINT FOR HORIZ BENDS, REDUCERS, VALVES AND DEAD ENDS

PIPE SIZE	11.25° ~~90°~~	45°	22.5° ~~90°~~	REDUCER* SMALL SIDE	REDUCER* LARGE SIDE	VALVE/ DEAD END
6"	10'	14'	~~40'~~ 10'	–	–	73'
10"	15'	21'	~~60'~~ 15'	116'	71'	115'

16x6"

Vertical Scale: 1" = 2'

Horizontal Scale: 1"=20'

RECORD DRAWINGS

NOTE:
ALL ELEVATIONS SHOWN ON THESE PLANS HAVE BEEN LOWERED 0.25 FEET.

197629
Smith Engineering Company
A Full Service Engineering Company
6400 Uptown Boulevard, N.E. Suite 500E Albuquerque, New Mexico 87110

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: BOSQUE DEL RIO SUBDIVISION - PHASE 2

UTILITY P & P: OFFSITE WATERLINE: STA 1+00 TO 4+90

Design Review Committee: APPROVED DEC 19 1997 DESIGN REVIEW COMMITTEE

City Engineer Approval

Last Design Update | No. / Day / Yr. | No. / Day / Yr.

City Project No. 540682 | Zone Map No. D-13 | Sheet 20 Of 23

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

BENCH MARKS
U.S.C.&G.S. STA. "R.ALAMEDA B-2"
N.M. STATE PLAN COORDINATES (CENTRAL ZONE) BY ACS
X=373,513.20
Y=1,520,142.81
ELEVATION=5,058.25
G/S FACTOR=0.9996763 8

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
4071	GAYLE JEWELL	07/97

ENGINEERS SEAL
PATRICK J. CONLEY NEW MEXICO 10141 REGISTERED PROFESSIONAL ENGINEER
10/23/97

NO.	DATE	REMARKS	BY
		REVISIONS	

		DATE
DESIGNED BY	AJG / BAC	10/23/97
DRAWN BY	BAC	10/23/97
CHECKED BY	PJC	10/23/97

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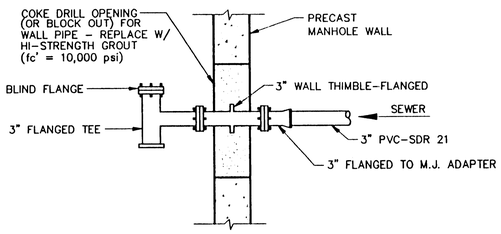
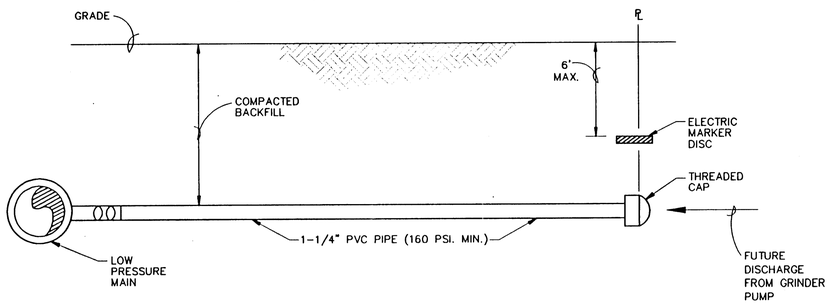


CAST IRON PIPING ALTERNATIVE – PRESSURE TO GRAVITY MANHOLE

SCALE: NONE



PRESSURE SEWER SERVICE LINE DETAIL (ELEVATION)

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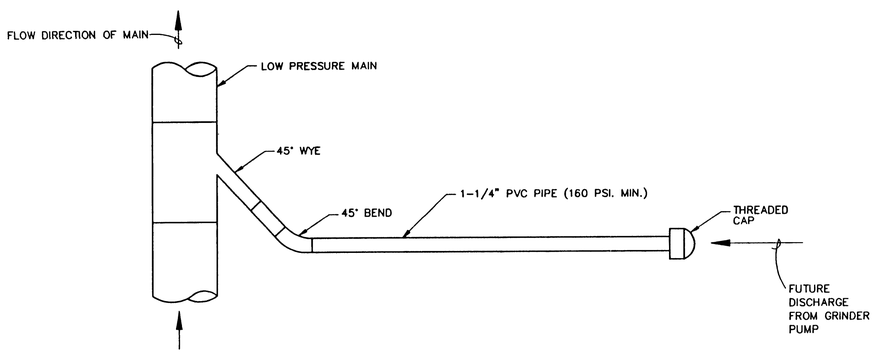
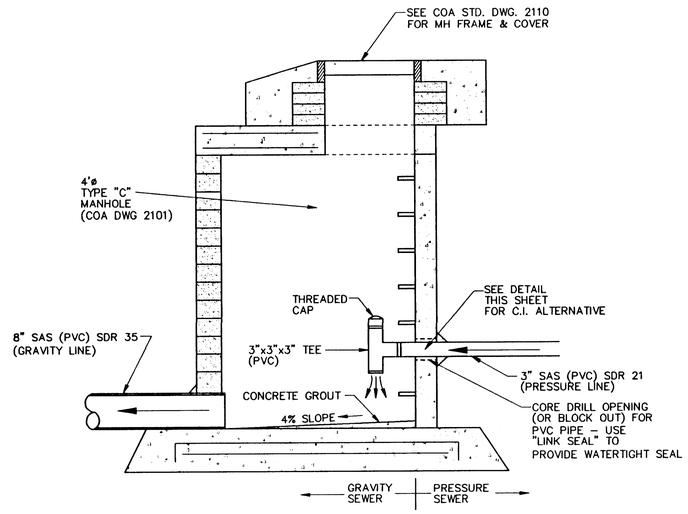


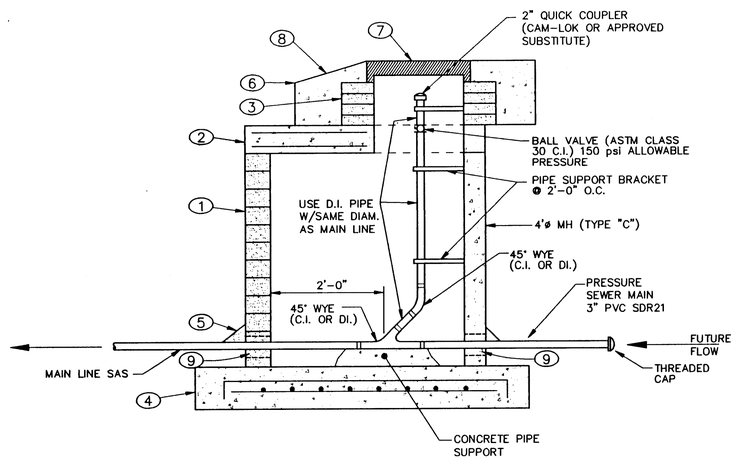
PRESSURE SEWER SERVICE LINE DETAIL (PLAN)

SCALE: NTS



TRANSITION (PRESSURE TO GRAVITY) MANHOLE DETAIL

SCALE: NONE



INLINE FLUSHING CONNECTION

SCALE: NONE

KEYED NOTES:

1. MANHOLE MAY BE CONSTRUCTED OF CONCRETE BLACK, GR. MS BRICK, POURED CONCRETE OR PRECAST REINFORCED CONCRETE IF BLOCK OR BRICK PLASTER INSIDE AND OUT WITH 1/2" MORTAR. SEE COA STD.DWG. 2218 FOR DETAILS.
2. PRECAST CONCRETE COVER, SEE COA STD.DWG. 2107.
3. USE MAX., 4 COURSES GR. MS BRICK ON UN-PAVED STREET FOR FUTURE ADJUSTMENT OF MANHOLE FRAME TO PAVEMENT GRADE PLASTER INSIDE WITH 1/2" MORTAR.
4. CONCRETE BASE TO BE POURED IN PLACE, USING NO. 4 BARS AT 6" O.C. EA. WAY FOR MANHOLE DEPTH OF 16' OR GREATER. NO. 4 BARS AT 12" O.C. EA. WAY FOR MANHOLE LESS THAN 16' IN DEPTH.
5. 6" GROUT FILLET ON UPPER HALF OF PIPE AND AROUND BASE.
6. USE A 5'x5' CONCRETE PAD IN ALL AREAS.
7. FRAME AND COVER, SEE COA.STD.DWG. 2110.
8. IN UNPAVED AREAS SET FRAME TO GRADE AND SLOPE TOP OF PAD.
9. CORE DRILL OPENING (OR BLOCK OUT) FOR PVC PIPE. USE "LINK SEAL" TO PROVIDE WATERTIGHT SEAL.

GENERAL NOTES:

1. USE STANDARD C.I. MH RING AND COVER, SEE COA STD.DWG. 2110 COVER MARKED "SEWER."
2. FOR FUTURE ADJUSTMENT OF MH FRAME TO PAVEMENT GRADE ADD ADJUSTMENT RINGS OR GRADE MS BRICK AS SHOWN ON STD. MH DETAILS SEE COA STD.DWGS. 2101 & 2102.

RECORD DRAWING

197629
Smith Engineering Company
A Full Service Engineering Company
5400 Uptown Boulevard, N.E. Suite 500B Albuquerque, New Mexico 87110

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: BOSQUE DEL RIO SUBDIVISION - PHASE 2

PRESSURE SANITARY SEWER DETAILS

Design Review Contractor | City Engineer Approval | Last Design Update | No. / Day / Yr. | No. / Day / Yr.

City Project No. 540682 | Zone Map No. D-13 | Sheet 21 Of 23

AS BUILT INFORMATION
CONTRACTOR New Concepts
WORK STAKED BY CSC DATE 3/98
INSPECTOR'S ACCEPTANCE BY CSC DATE 4/98
FIELD VERIFICATION BY CSC DATE 4/98
DRAWINGS CORRECTED BY CSC DATE 5/98
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
U.S.COE STA. "R.ALAMEDA B-2"
N.M. STATE PLAN COORDINATES (CENTRAL ZONE) BY ACS.
X=373,513.20 Y=1,520,142.81
ELEVATION=5,058.25
G/G FACTOR=0.99967638

SURVEY INFORMATION
FIELD NOTES

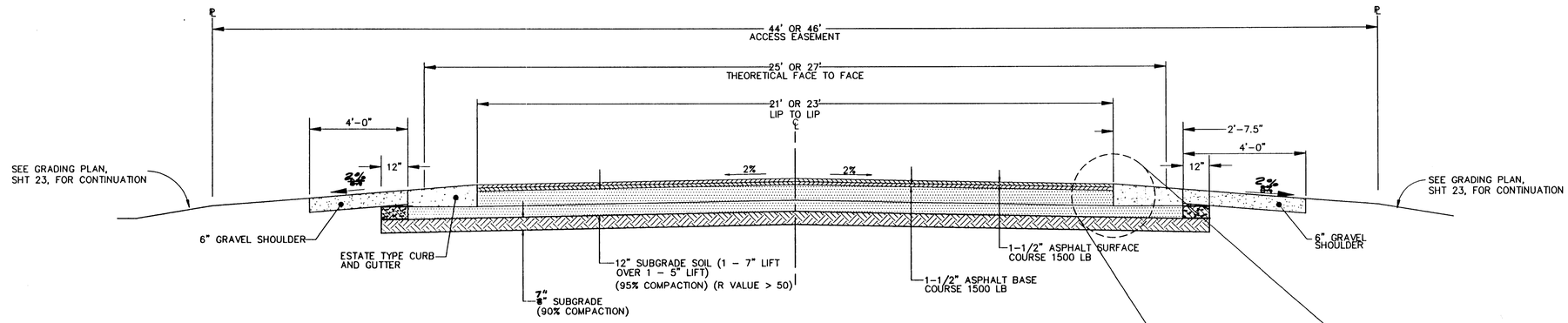
NO.	BY	DATE
4071	GAYLE JEWELL	07/97

ENGINEERS SEAL
PATRICK J. CONLEY NEW MEXICO 14001 REGISTERED PROFESSIONAL ENGINEER
10/23/97

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGN		
DESIGNED BY	AJG / BAC	DATE 10/23/97
DRAWN BY	BAC	DATE 10/23/97
CHECKED BY	PJC	DATE 10/23/97

DRAWN BY BY JASON



RESIDENTIAL STREET SECTION – ESTATE CURB

C.O.A. STD DRAWING 2405
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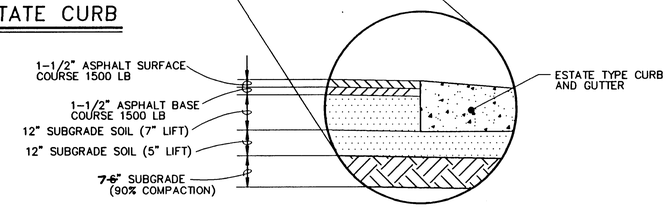
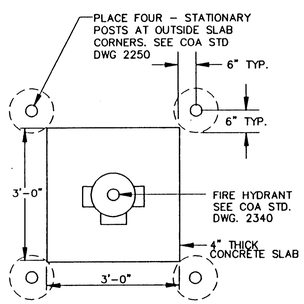


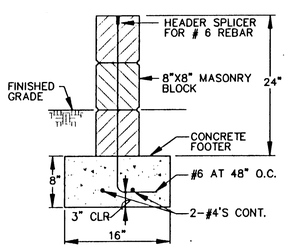
ESTATE CURB MODULE

SCALE: NONE



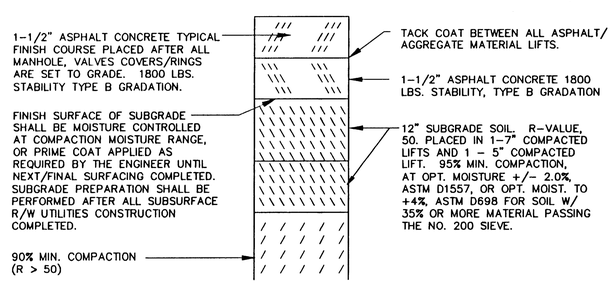
FIRE HYDRANT DETAIL – PLAN

SCALE: NONE



CMU WALL DETAIL

SCALE: NONE



RESIDENTIAL FLEXIBLE PAVEMENT SECTION

SCALE: NONE — COA STD DWG: 2405

SOIL NOT HAVING THE MIN. "R" VALUE OF 50' SHALL BE REMOVED TO A DEPTH OF 2 FT & REPLACED, BY THE CONTRACTOR, WITH SUITABLE MAT'L. OR A PAVEMENT SECT. SHALL BE DESIGNED BY CONSULTANT ACCOMODATING THE EXIST. "R" VALUE PER COA STD. SPECIFICATIONS.

KEYED NOTES:

AS BUILT INFORMATION
CONTRACTOR NEW CONCEPTS
WORK STAKED BY CSC DATE 3/98
INSPECTOR'S ACCEPTANCE BY CSC DATE 4/98
FIELD VERIFICATION BY CSC DATE 4/98
DRAWINGS CORRECTED BY CSC DATE 5/98
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
U.S.COE STA. "R.ALAMEDA B-2"
N.M. STATE PLAN COORDINATES (CENTRAL ZONE) BY ACS
X=373,513.20
Y=1,520,142.81
ELEVATION=5,058.25
G/G FACTOR=0.99967638

SURVEY INFORMATION

FIELD NOTES		
NO.	BY	DATE
4071	GAYLE JEWELL	07/97

ENGINEERS SEAL
PATRICK J. COMLEY NEW MEXICO 10144 REGISTERED PROFESSIONAL ENGINEER
10/23/97

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGNED BY	AJG / BAC	DATE 10/23/97
DRAWN BY	BAC	DATE 10/23/97
CHECKED BY	PJC	DATE 10/23/97

197629
Smith Engineering Company
A Full Service Engineering Company
5400 Uptown Boulevard, N.E. Suite 500E Albuquerque, New Mexico 87110

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: BOSQUE DEL RIO SUBDIVISION - PHASE 2

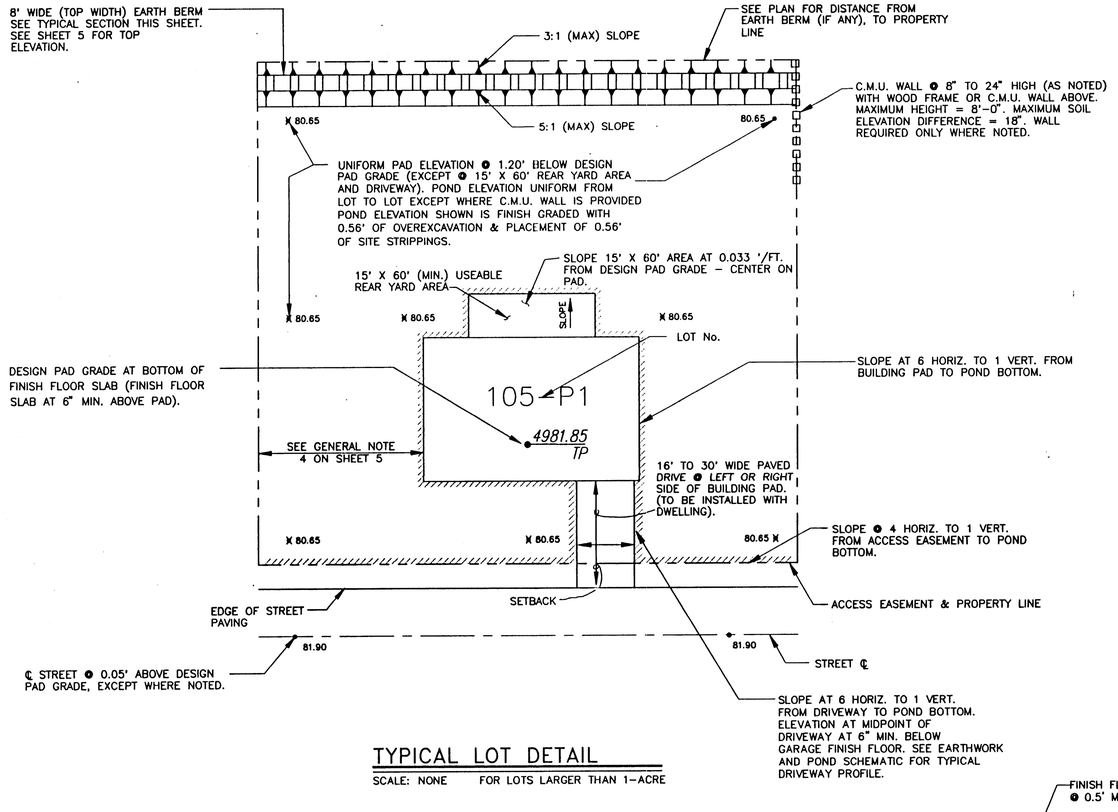
STREET SECTIONS AND DETAILS

Design Review Committee | City Engineer Approval | Last Design Update | No. / Day / Yr. | No. / Day / Yr.

City Project No. 540682 | Zone Map No. D-13 | Sheet 22 Of 23

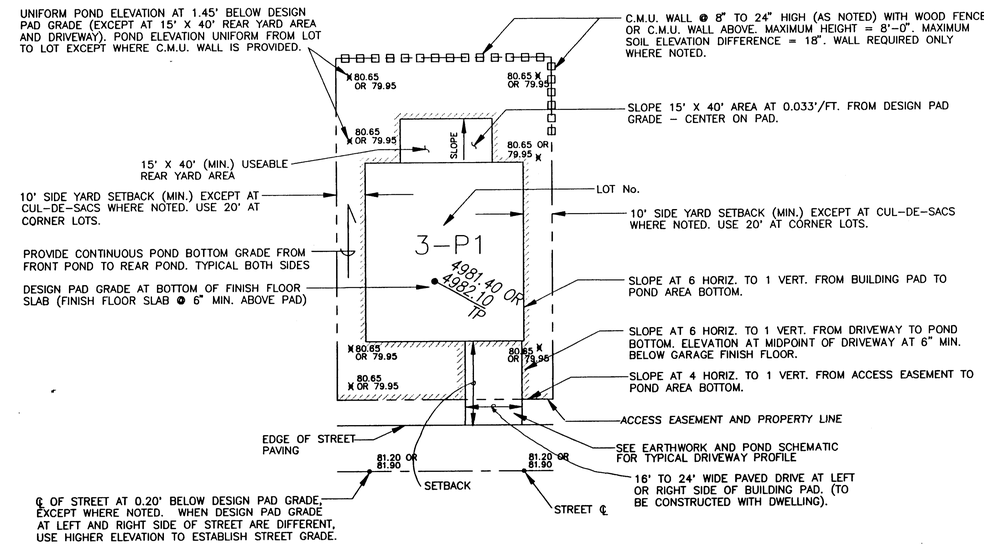
Drawing name: N:\197629\DPT\DWG\22RETAIL.DWG
Layout: Layout: 22RETAIL Tab: 22RETAIL.DWG
This is plot # 4 Plotted on October 22, 1997 at 7:41 AM

SCANNED BY



TYPICAL LOT DETAIL

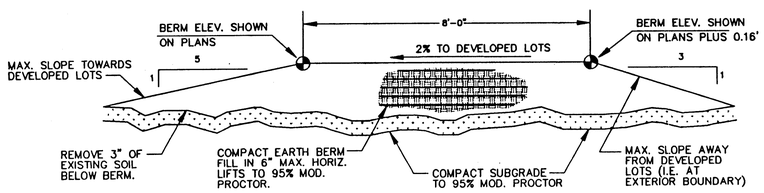
SCALE: NONE FOR LOTS LARGER THAN 1-ACRE



TYPICAL LOT DETAIL

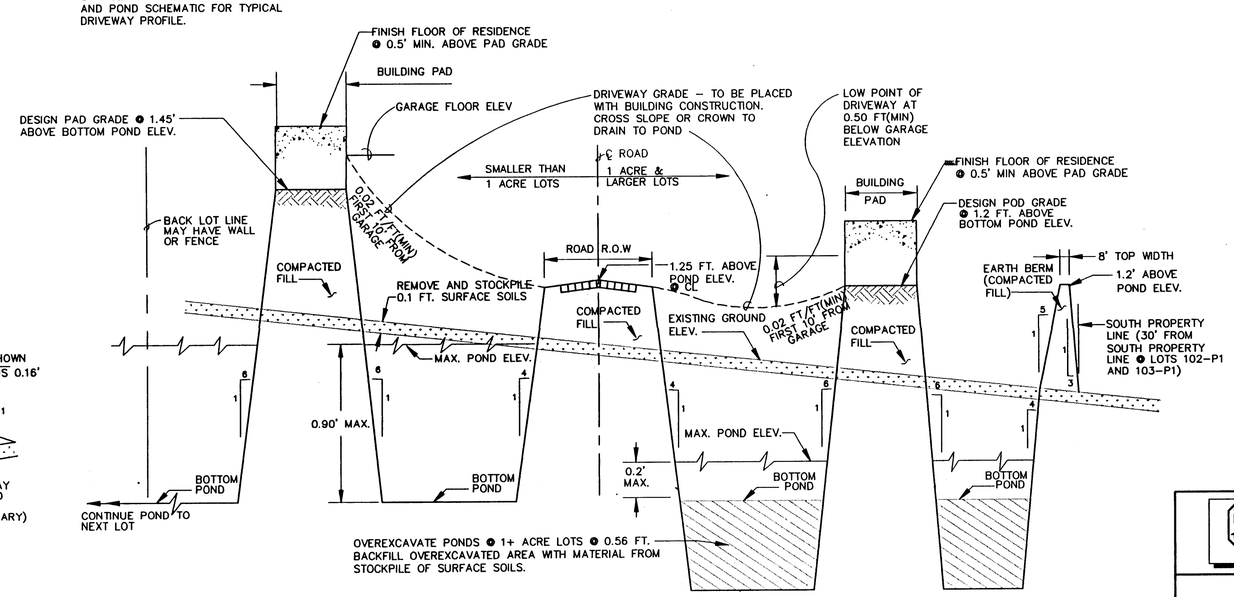
SCALE: NONE FOR LOTS SMALLER THAN 1-ACRE

USE TP=4981.40 FOR LOTS 5-P1 THROUGH 13-P1 AND LOTS 61-P1 THROUGH 72-P1. SEE GRADING PLAN FOR ELEVATIONS.



PERMANENT EARTH BERM SECTION

SCALE: NONE



EARTHWORK AND POND SCHEMATIC

SCALE: NONE

AS BUILT INFORMATION

CONTRACTOR	N/A	
WORK STAKED BY	N/A	DATE
INSPECTOR'S ACCEPTANCE BY	N/A	DATE
FIELD VERIFICATION BY	N/A	DATE
DRAWINGS CORRECTED BY	N/A	DATE

MICRO-FILM INFORMATION

RECORDED BY	
DATE	
NO.	

BENCH MARKS

U.S.COE STA. "R.ALAMEDA B-2"
N.M. STATE PLAN COORDINATES (CENTRAL ZONE) BY ACS.
X=373,513.20
Y=1,520,142.81
ELEVATION=5,058.25
G/S FACTOR=0.99967638

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
4071	GAYLE JEWELL	07/97

ENGINEERS SEAL

PATRICK J. COMLEY NEW MEXICO 10044 REGISTERED PROFESSIONAL ENGINEER 10/23/97

NO.	DATE	REMARKS	BY

REVISIONS

DESIGNED BY	AJG / BAC	DATE 10/23/97
DRAWN BY	BAC	DATE 10/23/97
CHECKED BY	PJC	DATE 10/23/97

197629
Smith Engineering Company
A Full Service Engineering Company
5400 Uptown Boulevard, N.E. Suite 500E Albuquerque, New Mexico 87110

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: BOSQUE DEL RIO SUBDIVISION - PHASE 2

GRADING & DRAINAGE DETAILS

Design Review Committee	City Engineer Approval	Last Design Update	No. / Day / Yr.	No. / Day / Yr.

City Project No.	Zone Map No.	Sheet	Of
540682	D-13	23	23

Drawing name: h:\107261\07DWG\23DETAIL.DWG
Scaled on October 22, 1997 at 7:42 AM
This is plot # 3 Plotted on: October 22, 1997 at 7:42 AM

SCANNED BY LASON