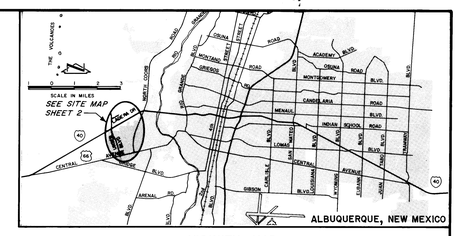
CITY OF ALBUQUERQUE, NEW MEXICO

MUNICIPAL DEVELOPMENT DEPARTMENT

SPECIAL ASSESSMENT DISTRICT NO. 214

UNSER BOULEVARD

FROM CENTRAL AVENUE TO LADERA DRIVE N.W.



VICINITY MAP

INDEX

SHEET NO	DESCRIPTION
1	Cover Sheet
2	Legend, Site Map
3	Typical Sections and General Notes
4 - 7	Paving - Sta. 0+00 to Sta. 39+49.35
8	Paving - Sta. 78+50 to Sta. 87+62.21
9 - 12	Water & Sewer - Sta. 0+00 to Sta. 39+49.35
13 - 15	Storm Drain - Sta. 11+50 to Sta. 39+49.35
16	Channel & Temporary Retention Pond
17 - 18	Temporary Retention Pond Details
19	1'x3' Concrete Box Culvert
20	Traffic Control Plan
21	Traffic Control Notes
22	Pullbox Locations & Island Wheel Chair Ramp Details
23	Paving Details - Bluewater/Unser

2 6 1 6 5 8 0 1 8 6

APPROVAL OF AS BUILT DRAWINGS
CHIEF CONSTRUCTION ENGINEER
DATE 5-22-86

REV	SHEETS	CITY	ENGR.	DATE	USER	DEPT.	DATE	USER	DEPT.	DATE

APPROVAL OF REVISIONS

PLANS PREPARED UNDER SUPERVISION OF

SCANLON & ASSOCIATES

JOB NO. 82060

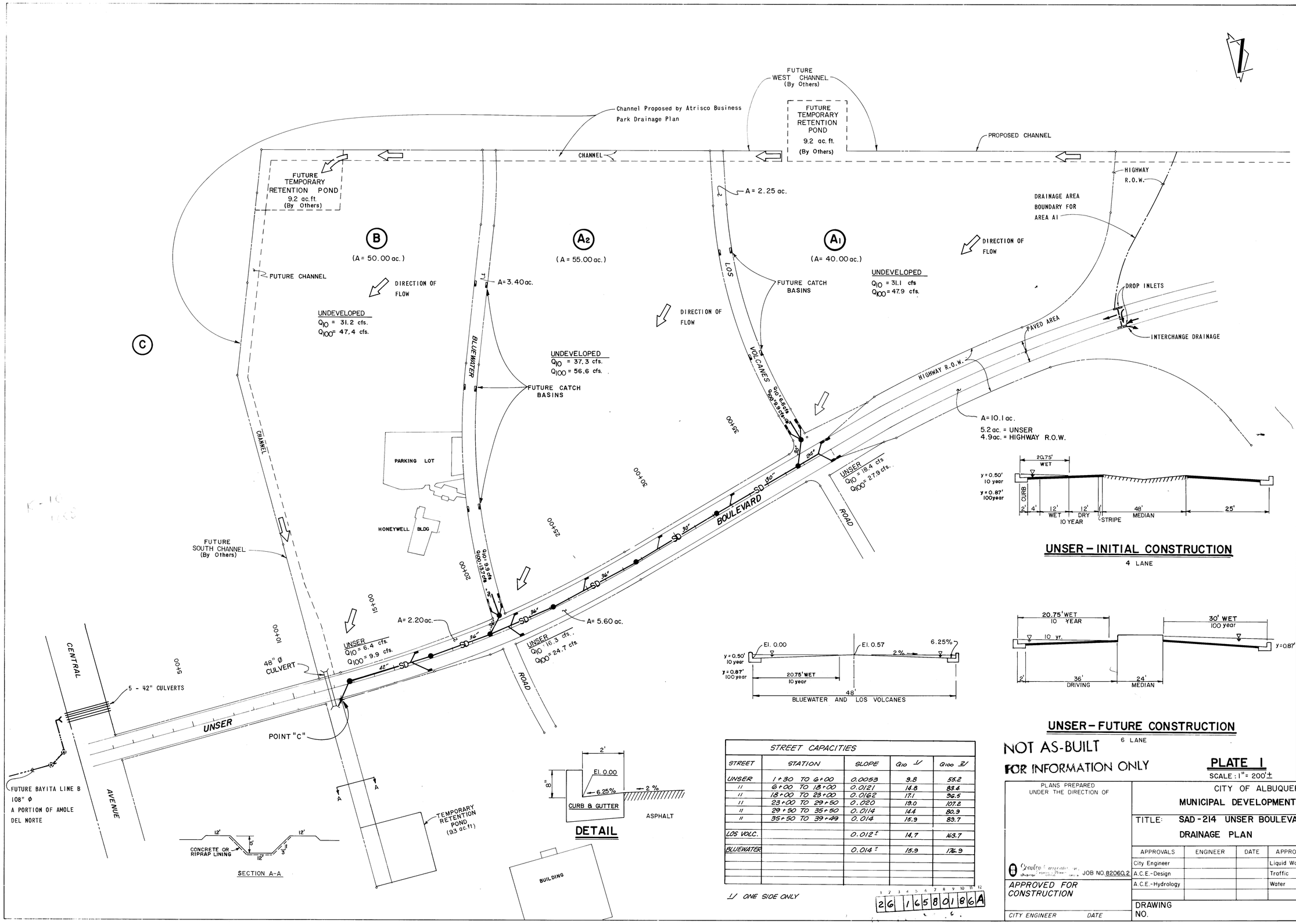
APPROVED FOR CONSTRUCTION

C.E.

DRAWING NO. 1658

SHEET 1 OF 23

RECORD DRAWING



STREET CAPACITIES				
STREET	STATION	SLOPE	Q10 1/	Q100 2/
UNSER	1+30 TO 6+00	0.0053	9.8	55.2
"	6+00 TO 18+00	0.0121	14.8	83.4
"	18+00 TO 23+00	0.0162	17.1	96.5
"	23+00 TO 29+50	0.020	19.0	107.2
"	29+50 TO 35+50	0.0114	14.4	80.9
"	35+50 TO 39+49	0.014	15.9	89.7
LOS VOLC.		0.012±	14.7	163.7
BLUEWATER		0.014±	15.9	176.9

1/ ONE SIDE ONLY

NOT AS-BUILT

FOR INFORMATION ONLY

PLATE 1

SCALE : 1" = 200'±

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

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

REFERENCES
MAP NO. W.O. NO.
EST. NO.

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGN DATE 2/83
DESIGNED BY K.S.F.
DRAWN BY HOLLIS DATE 2/83
CHECKED BY DATE

PLANS PREPARED UNDER THE DIRECTION OF

Bradley Associates, Inc. Drawing Number JOB NO. 82060.2

APPROVED FOR CONSTRUCTION

CITY ENGINEER DATE

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT

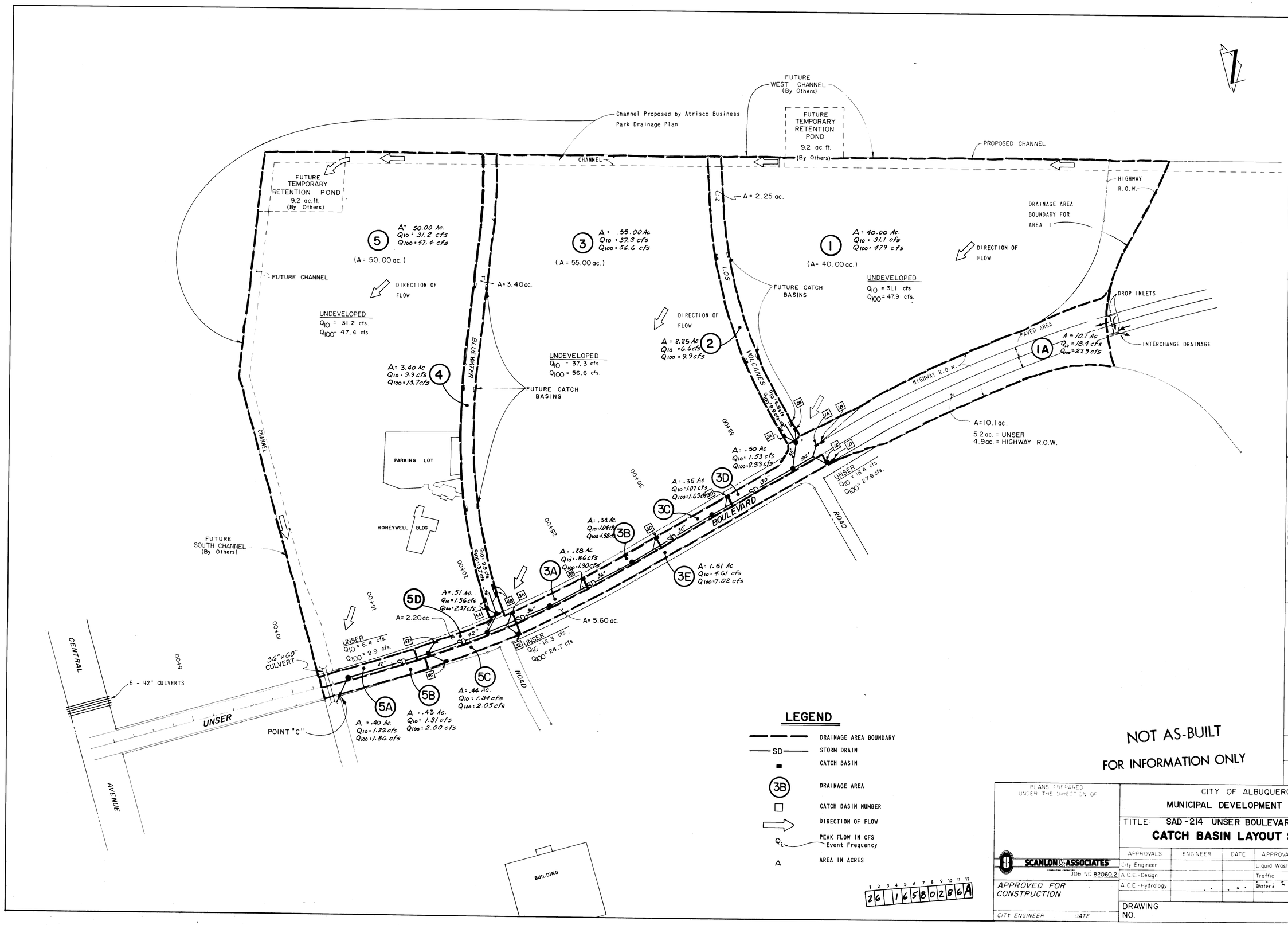
TITLE: SAD-214 UNSER BOULEVARD
DRAINAGE PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E.-Design			Traffic		
A.C.E.-Hydrology			Water		

DRAWING NO.

SHEET 1 OF 2

26 1658 0186A



NOT AS-BUILT

FOR INFORMATION ONLY

PLANS PREPARED UNDER THE DIRECTION OF	CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT		
SCANLON & ASSOCIATES CONSULTING ENGINEERS JOB NO 82060.2	TITLE: SAD-214 UNSER BOULEVARD **CATCH BASIN LAYOUT SHEET**		
APPROVED FOR CONSTRUCTION	APPROVALS / ENGINEER / DATE	APPROVALS / ENGINEER / DATE	
	City Engineer	Liquid Waste	
	A.C.E.-Design	Traffic	
	A.C.E.-Hydrology	Water	
CITY ENGINEER DATE	DRAWING NO.	SHEET 2 OF 2	

1 2 3 4 5 6 7 8 9 10 11 12
2 6 1 6 5 8 0 2 8 6 A

AS BUILT INFORMATION

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

REFERENCES
MAP NO
EST NO
WO NO

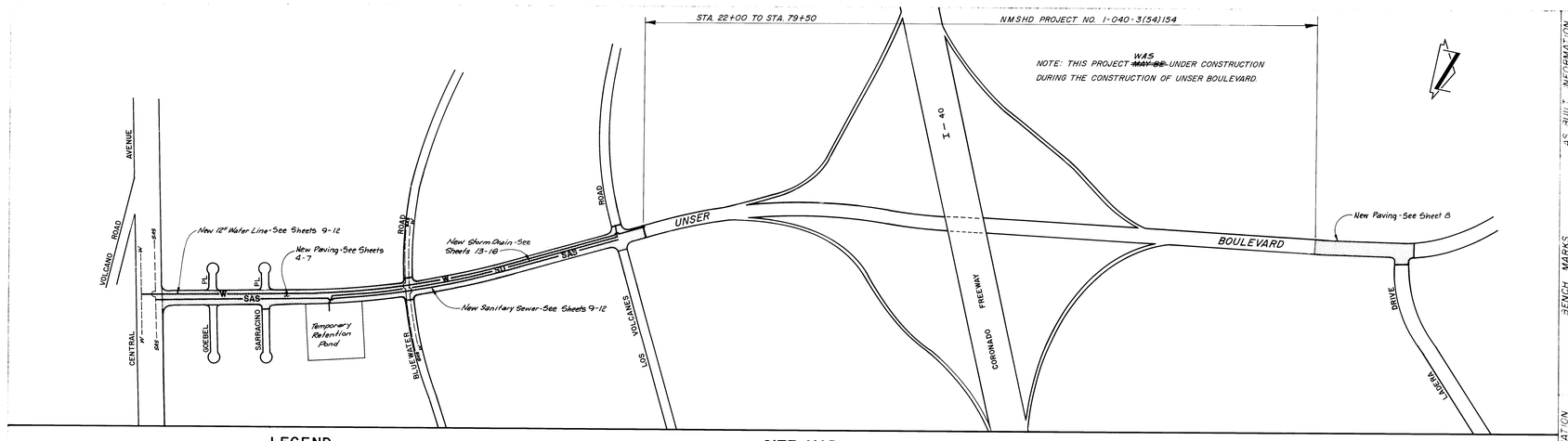
NO	DATE	REMARKS	BY

REVISIONS

DESIGN

DESIGNED BY K.S.F. DATE 2/83
DRAWN BY HOLLIS DATE 2/83
CHECKED BY DATE

MICRO-FILM INFORMATION
DATE

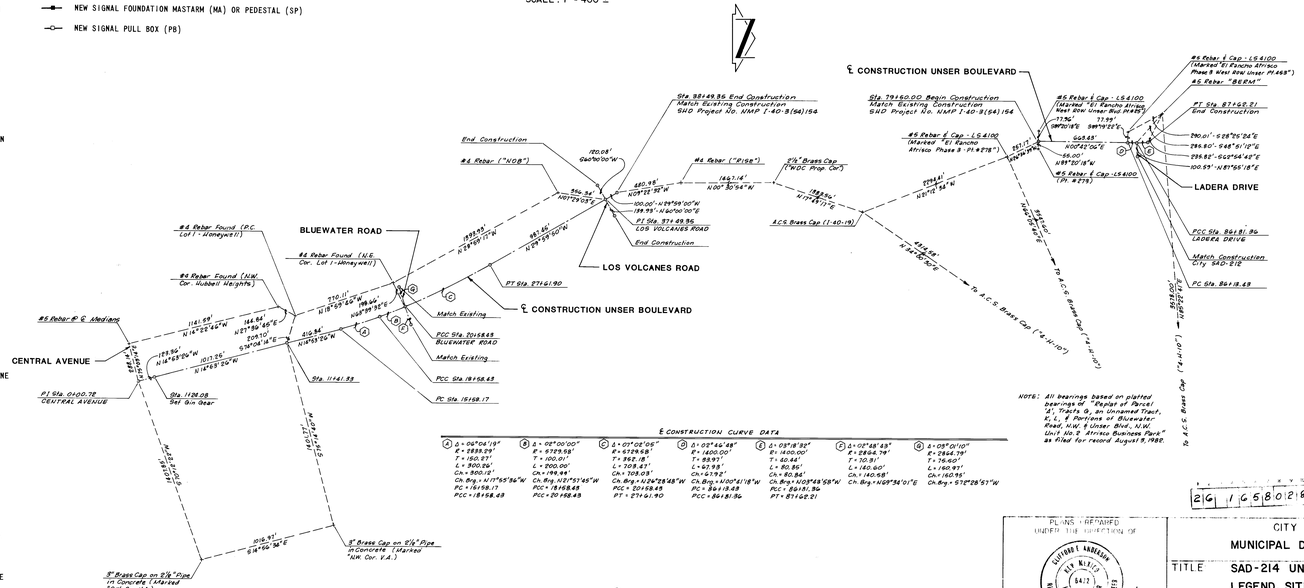


SITE MAP

SCALE: 1" = 400' ±

LEGEND

- NEW TRAFFIC SIGNAL CONDUIT
- EXISTING CURB AND GUTTER
- NEW CURB AND GUTTER
- NEW ASPHALT MEDIAN CURB
- NEW SIDEWALK
- NEW WHEEL CHAIR RAMP
- ℄ SURVEY AND ℄ CONSTRUCTION
- RIGHT-OF-WAY LINE
- EXISTING SIGN
- EXISTING FENCE
- NEW PAVING LIMITS
- CONTROL POINT, P.I.
- EXISTING FIRE HYDRANT
- EXISTING TELEPHONE BOX
- EXISTING WATER VALVE
- EXISTING WATER METER
- EXISTING POWER POLE
- EXISTING SANITARY SEWER LINE
- EXISTING GAS LINE
- EXISTING WATER LINE
- EXISTING POWER LINE
- EXISTING CULVERT
- NEW SANITARY SEWER LINE
- NEW WATER LINE
- NEW STORM DRAIN LINE
- NEW SANITARY SEWER MANHOLE
- NEW STORM DRAIN MANHOLE
- EXISTING WATER LINE MANHOLE
- EXISTING STORM DRAIN MANHOLE
- EXISTING SANITARY SEWER LINE MANHOLE
- NEW DROP INLET
- NEW SPOT ELEVATION
- NEW DRIVEPAD
- NEW SIGNAL FOUNDATION MASTARM (MA) OR PEDESTAL (SP)
- NEW SIGNAL PULL BOX (PB)



NOTE: All bearings based on platted bearings of "Replat of Parcel 'A', Tracts G, an Unnamed Tract, E, L, & Portions of Bluewater Road, N.W. & Unser Blvd., N.W. Unit No. 2 Atrisco Business Park" as filed for record August 9, 1982.

℄ CONSTRUCTION CURVE DATA

Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	Ⓖ
Δ = 06°04'19"	Δ = 08°00'00"	Δ = 07°02'06"	Δ = 02°46'48"	Δ = 09°18'35"	Δ = 02°48'48"	Δ = 08°01'10"
R = 2888.29'	R = 6729.58'	R = 6729.68'	R = 1400.00'	R = 1400.00'	R = 2864.79'	R = 2864.79'
T = 160.27'	T = 100.01'	T = 352.18'	T = 88.93'	T = 60.44'	T = 70.91'	T = 76.60'
L = 300.26'	L = 200.00'	L = 708.47'	L = 67.98'	L = 80.85'	L = 140.60'	L = 160.97'
Ch = 300.13'	Ch = 199.99'	Ch = 708.03'	Ch = 67.92'	Ch = 80.86'	Ch = 140.58'	Ch = 160.95'
Ch. Brg = N17°55'56"W	Ch. Brg = N12°51'45"W	Ch. Brg = N24°25'48"W	Ch. Brg = N00°42'18"W	Ch. Brg = N10°49'58"W	Ch. Brg = N09°56'01"E	Ch. Brg = S72°28'57"W
PCC = 18+58.43	PCC = 18+58.43	PCC = 20+58.43	PCC = 86+81.36	PCC = 86+81.36	PCC = 86+81.36	PCC = 86+81.36
PC = 15+58.17	PC = 20+58.43	PT = 27+61.90	PT = 87+62.21	PT = 87+62.21	PT = 87+62.21	PT = 87+62.21

℄ CONSTRUCTION LAYOUT

SCALE: 1" = 400'

RECORD DRAWING

PLANS PREPARED UNDER THE DIRECTION OF CLIFFORD L. ANDERSON NEW MEXICO REGISTERED PROFESSIONAL ENGINEER 5412

0 Drafter's initials JOB NO. 82060

APPROVED FOR CONSTRUCTION

CITY ENGINEER — DATE

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT

TITLE: SAD-214 UNSER BOULEVARD
LEGEND, SITE MAP

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	NA	1/4/84
A.C.E. - Design			Traffic	NA	1/4/84
A.C.E. - Hydrology		1/3/84	Water	NA	1/4/84

DRAWING NO. 1658 — SHEET 2 OF 23

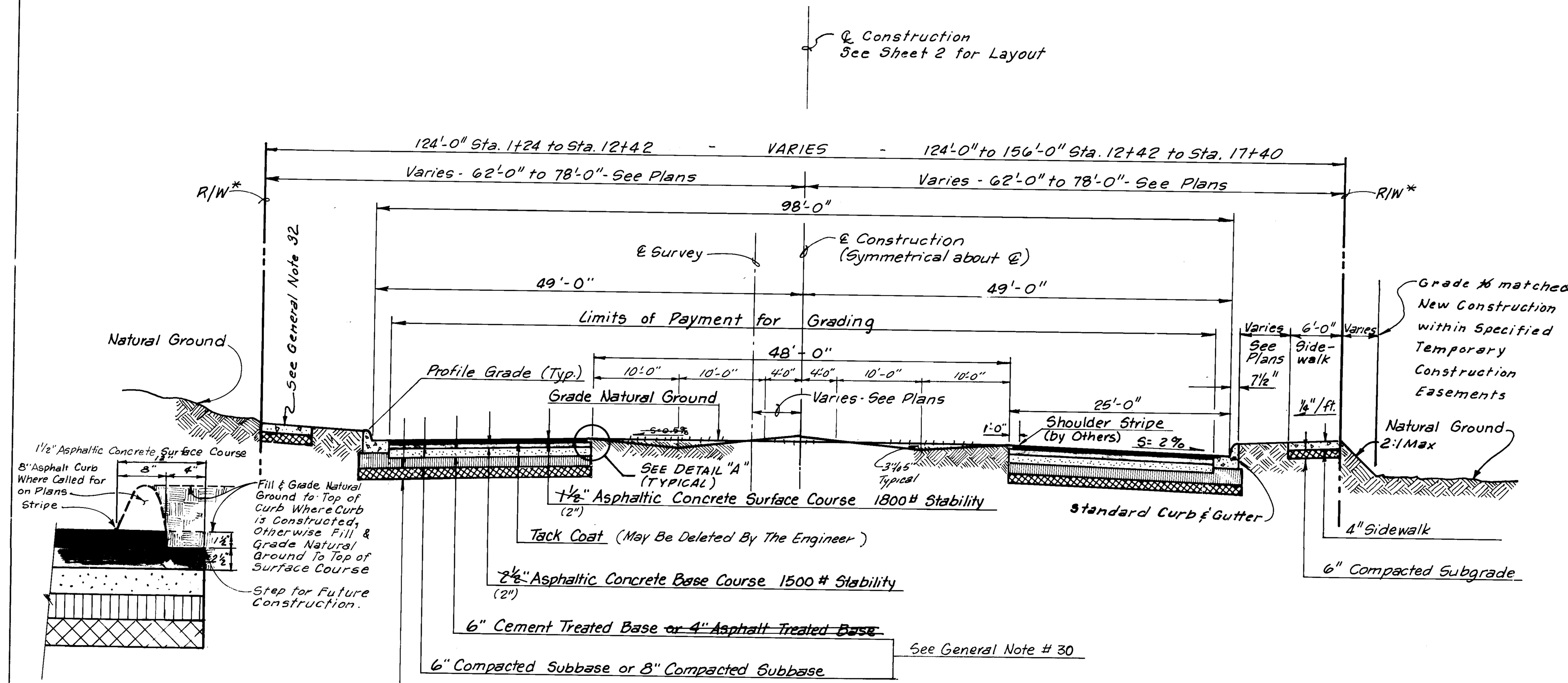
SURVEY INFORMATION — FIELD NOTES — NO — BY — DATE

REFERENCES — MAP NO. J-9, K-10 — WO. NO. — EST. NO.

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGNED BY AD — DATE 12-83
DRAWN BY LM — DATE 12-83
CHECKED BY CA — DATE 12-83

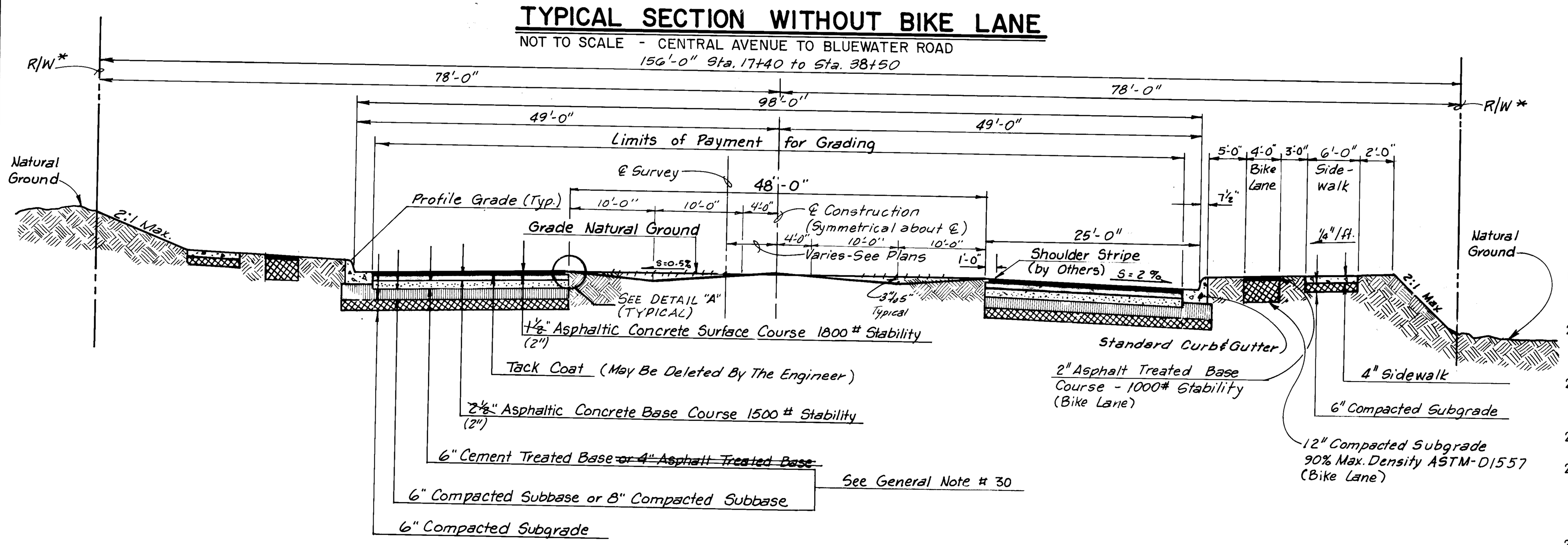
AS BUILT INFORMATION — Bruce Const. Co. Inc. — Sandia Assoc. 1984
BENCH MARKS — Sandia Assoc. 1984 — Sandia Assoc. 1984
MICRO-FILM INFORMATION



DETAIL "A"

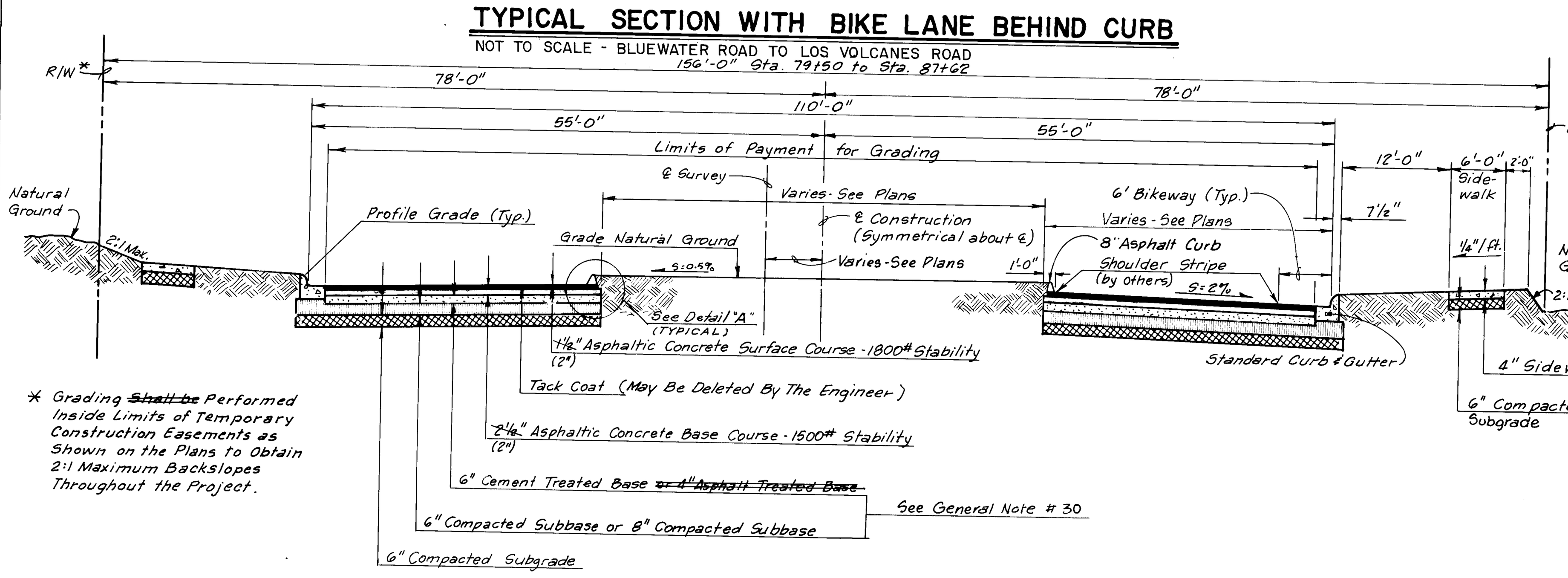
TYPICAL SECTION WITHOUT BIKE LANE

NOT TO SCALE - CENTRAL AVENUE TO BLUEWATER ROAD
156'-0" Sta. 17+40 to Sta. 38+50



TYPICAL SECTION WITH BIKE LANE BEHIND CURB

NOT TO SCALE - BLUEWATER ROAD TO LOS VOLCANES ROAD
156'-0" Sta. 79+50 to Sta. 87+62



TYPICAL SECTION WITH BIKE LANE IN ROADWAY

NOT TO SCALE - I-40 RAMP TO LADERA DRIVE

GENERAL NOTES

1. New Mexico Standard Specifications for Public Works Construction 1979 Edition, and any revisions and additions in the Supplemental Specifications in the Contract Documents, shall govern the construction of this project.
2. The Contractor shall notify all utility companies when working near their systems. Two days prior to any excavation, Contractor must contact Line Locating Service, 765-1234, 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 so that the conflict can be resolved with minimum amount of delay.
4. All existing utilities shown here were taken as accurately as possible from record drawings and surface indications. It shall be the Contractor's responsibility to protect, maintain in service, and verify exact locations of all affected utilities during construction of this project.
5. All utilities which are to be abandoned under this contract shall be plugged with concrete at each end of the portion to be abandoned. The cost of this work shall be considered incidental to other items of work.
6. Curb return radii and street widths are to the face of the curb unless otherwise indicated in the plans.
7. Where removal of existing curb and gutter or sidewalk is required, removal ~~shall be~~ [was] to the nearest joint or saw cut.
8. When matching new paving to existing pavement, the Contractor shall saw cut the existing paving on a right angle, or as directed by the Engineer to remove any broken, raveled, or cracked paving. The cost of this work shall be considered incidental to other items of work.
9. Curb and gutter shown as existing and not to be removed under this contract which is damaged or displaced by the Contractor or his sub-contractors, shall be replaced by the Contractor at his expense.
10. Existing materials to be removed and paid for on a unit basis shall be measured and the quantities approved by the Engineer before removal.
11. Connection of new sewer lines to existing manholes and plugging of existing lines in manholes shall be incidental to other items of work.
12. New water lines shall have a minimum cover of 36" unless otherwise called out in the plans.
13. The Contractor shall remove all valve boxes from abandoned water lines and return them to the City Yards. The cost of this work shall be considered incidental to other items of work.
14. All abandoned valve and meter box frames and covers shall be returned to the City Water Division warehouse and all storm and sanitary manhole lids and inlet grates, castings, and frames not reused, shall be returned to the Liquid Waste Division warehouse.
15. The maximum allowable quantities for payment for replacement of pavement where water, sanitary sewer, and storm sewer are to be installed under existing pavement ~~will be~~ computed in accordance with section 550.05 of the Supplemental Technical Specifications and Standard Details.
16. The Contractor shall expose existing water lines at locations where new sanitay sewer lines cross or parallel such lines in order to adequately establish the proximity of water and sewer lines. The cost of this work ~~shall be~~ [was] incidental to other items of work.
17. All water meters, water valve boxes, and sewer manholes in the construction area where street grades change are to be adjusted by the Contractor to finished grade under this contract. The Contractor shall be required to set reference points for locating manholes prior to any grading operation. Measurement and payment for this work shall be included in unit price bid for appropriate items.
18. Concrete curb return fillets including curb ~~will be~~ [were] measured and paid for by the square foot at the unit price bid for concrete valley gutter.
19. The Contractor will be responsible to replace at his expense any and all property corners destroyed in the process of construction. All property corners must be set by a Registered Land Surveyor. Records of any such surveys shall be given to the Engineer.
20. The Contractor will be required to confine his work within the construction limits and/or right-of-way to preserve existing vegetation and private property.
21. Mailboxes within new construction shall be relocated to right-of-way line by the Contractor. The Contractor shall coordinate relocation of mailboxes with property owner or resident. The cost of this work shall be considered incidental to other items of work.
22. Utility relocations and new utility installation schedules shall be coordinated at the pre-construction conference.
23. Utility relocations and new utility installations required by the construction of this project are to be coordinated by the Contractor during construction. No additional compensation will be allowed for delays or inconveniences caused by utility company work crews. The Contractor may be required to reschedule his activities to allow utility crews to perform their required work.
24. Contractor will be responsible for the proper location of driveway sections. Property owners shall be notified that a curb cut permit from City Traffic Engineering is required in order to establish any driveways onto Unser Blvd. Any permit issued will be forewarded by Traffic Engineering to the Engineer. No driveways will be installed without the written approval of the Traffic Division. Approved driveways shall be shown on the "As Constructed" drawings.
25. Access to local business and residences shall be kept open at all times. Temporary access closures, if required, must be scheduled at least twenty four (24) hours in advance with property owners and approved by the Engineer.
26. A disposal site for all excess excavation material, asphaltic paving, concrete paving, etc. shall be obtained by the Contractor in compliance with applicable regulations and approval of the Engineer. All cost incurred in obtaining a disposal site and haul thereto shall be considered incidental. Suitable material may be disposed of as stipulated in Section 212 of the Supplemental Technical Specifications.
27. Fifty ton roller operation shall not be used on this project where underground utilities are present. The required compaction of these locations shall be effected by other types of approved compaction methods.
28. All work on this project shall be performed in accordance with applicable Federal, State, and local laws, rules, and regulations concerning construction safety and health.
29. All storm drainage facilities shall be completed prior to final acceptance.
30. The Contractor has the option of using either 6" Cement Treated Base with 6" Compacted Subbase or 4" Asphalt Treated Base with 8" Compacted Subbase.
31. Electronic marker disks ~~shall be installed in accordance with Section 131 of the Supplemental Technical Specifications.~~ [WERE INSTALLED ON ALL SAN. SEWER AND WATER STUBS AND ON GATE VALVES AS MARKED IN PLAN & PROFILE SHEETS. DISKS AT ALL OTHER REQUIRED LOCATIONS WERE INADVERTANTLY OMITTED BY CONTRACTOR. DEDUCTION MADE IN FINAL ESTIMATE PAYMENT.]
32. Sidewalk from Station 1+20± Lt. [RT] to Station 11+50± Lt. ~~shall be~~ [Was] constructed 3' inside right-of-way line to prevent relocation of existing fence. Back slopes ~~shall~~ match[ed] existing ground at fence line. [SIDEWALK RIGHT SIDE LOCATION CHANGED BY APPROVED SV-84-9]

RECORD DRAWING

26 16580386

AS BUILT INFORMATION	
CONTRACTOR	Brace Const. Co. Inc.
WORK STAKED BY	Scanlon & Assoc. DATE 1984
INSPECTOR'S ACCEPTANCE BY	DATE
FIELD VERIFICATION BY	Scanlon & Assoc. DATE 1984
DRAWINGS CORRECTED BY	Scanlon & Assoc. DATE 1984
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO	

BENCH MARKS

SURVEY INFORMATION		
FIELD NOTES		
NO.	BY	DATE

REFERENCES	
MAP NO.	W.O. NO.
EST. NO.	

REVISIONS			
NO.	DATE	REMARKS	BY

DESIGN	
DESIGNED BY AO	DATE 12-83
DRAWN BY LH	DATE 12-83
CHECKED BY CA	DATE 12-83

PLANS PREPARED UNDER THE DIRECTION OF
CLIFFORD E. ANDERSON, NEW MEXICO 6472, REGISTERED PROFESSIONAL ENGINEER AND LAND SURVEYOR
Scanlon & Associates, Inc. JOB NO. 82060

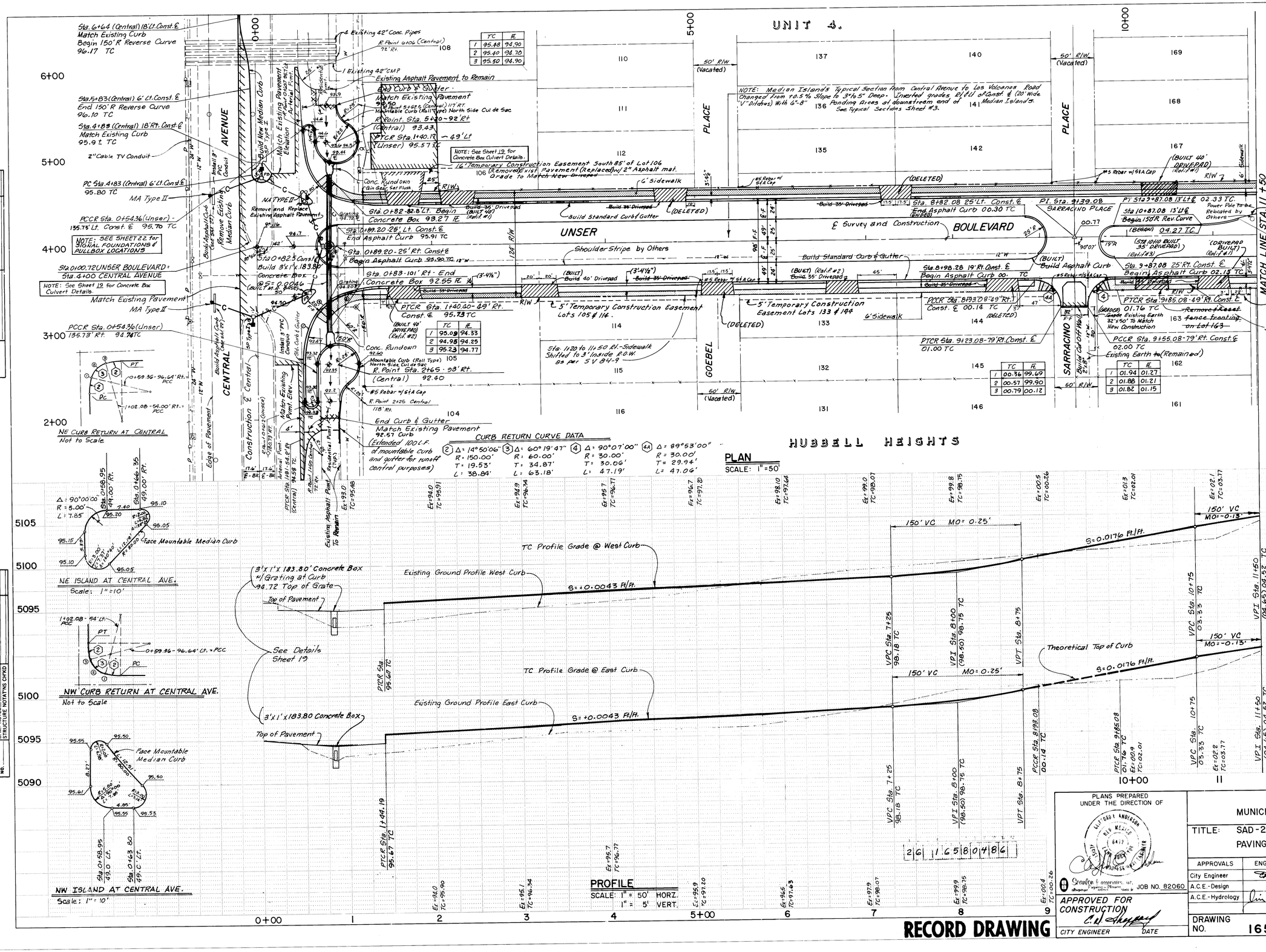
APPROVED FOR CONSTRUCTION
C. A. [signature] 1/4/84
CITY ENGINEER DATE

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT

TITLE: **SAD-214 UNSER BOULEVARD**
TYPICAL SECTIONS AND GENERAL NOTES

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	[signature]		Liquid Waste	James Topmiller	1/4/84
A.C.E.-Design			Traffic	T.W. Kennedy	1/4/84
A.C.E.-Hydrology	Jim Fink	1/4/84	Water	James Topmiller	1/4/84

DRAWING NO. 1658 — SHEET 3 OF 23



	TC	FE
1	95.48	94.90
2	95.40	94.70
3	95.50	94.90

	TC	FE
1	95.09	94.33
2	94.98	94.25
3	95.23	94.77

	TC	FE
1	00.36	99.69
2	00.57	99.90
3	00.79	00.12

	TC	FE
1	01.94	01.27
2	01.88	01.21
3	01.82	01.15

PLANS PREPARED UNDER THE DIRECTOR OF

ALFRED I. ANDERSON NEW MEXICO 6412 REGISTERED PROFESSIONAL ENGINEER

Grantham & Associates, Inc. Albuquerque Engineering • Planning • Surveying JOB NO. 82060

APPROVED FOR CONSTRUCTION

CITY ENGINEER DATE

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT

TITLE: SAD-214 UNSER BOULEVARD
PAVING - STA. 0+00 TO STA. 11+50

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	N.A. Jones Jr.	1/4/84
A.C.E.-Design			Traffic		1/4/84
A.C.E.-Hydrology		1/4/84	Water	N.A. Jones Jr.	1/4/84

DRAWING NO. 1658

SHEET 4 OF 23

AS BUILT INFORMATION
CONTRACTOR Bruce Const. Co. Inc. DATE 1984
WORK STAKED BY Scanlon & Assoc. DATE 1984
INSPECTOR'S ACCEPTANCE BY DATE
VERIFICATION BY Scanlon & Assoc. DATE 1984
CORRECTIONS MADE BY Scanlon & Assoc. DATE 1984
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
TBM - North Bonnet Bolt of Fire Hydrant - 114' North of Sta. 3+29.5 CENTRAL - Elev. = 5094.30
TBM - Gin Gear on North side of Power Pole 142' Left - Sta. 11+42 - Elev. = 5104.139

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

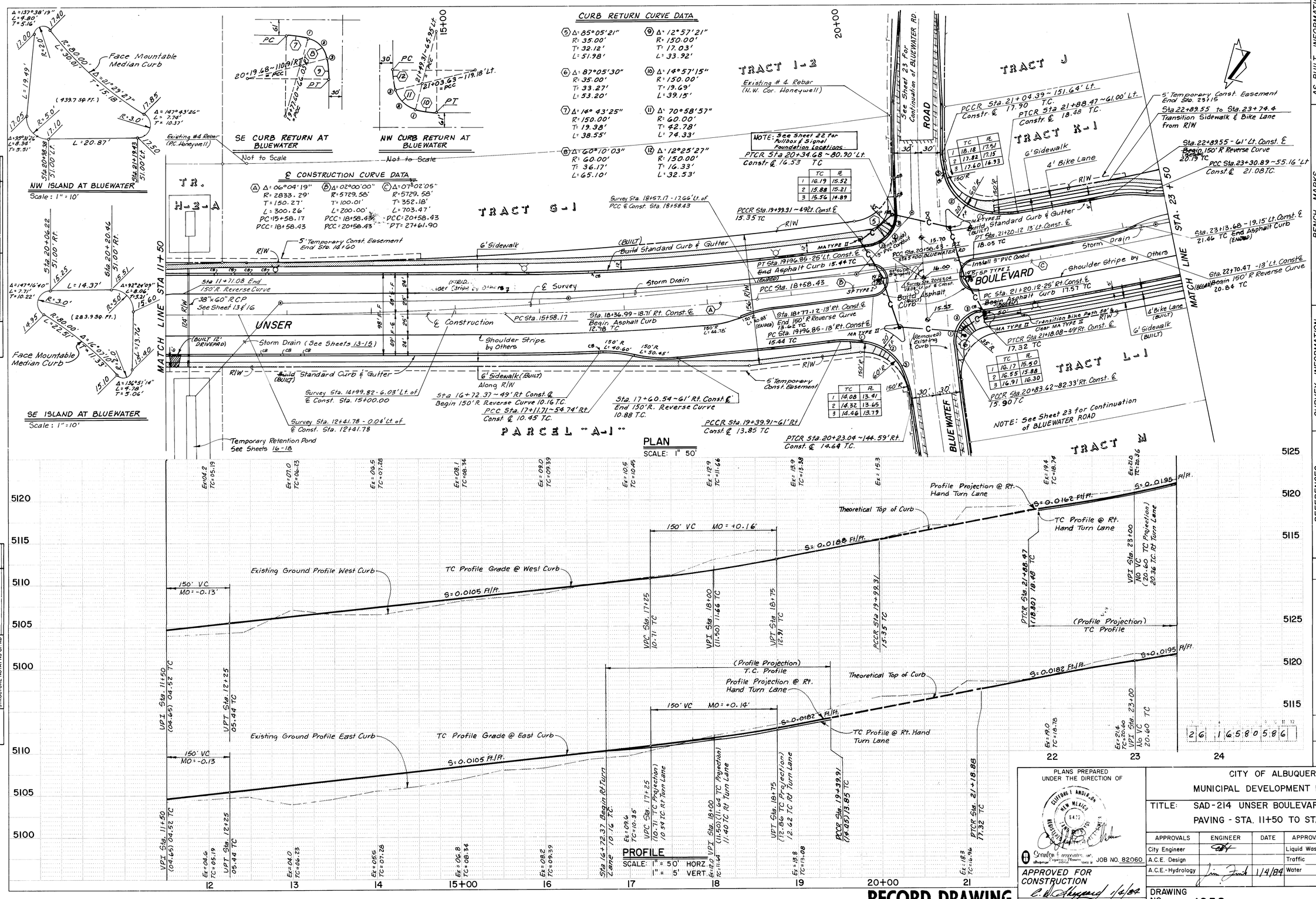
REFERENCES
MAP NO. K-10
EST. NO.
W.O. NO.

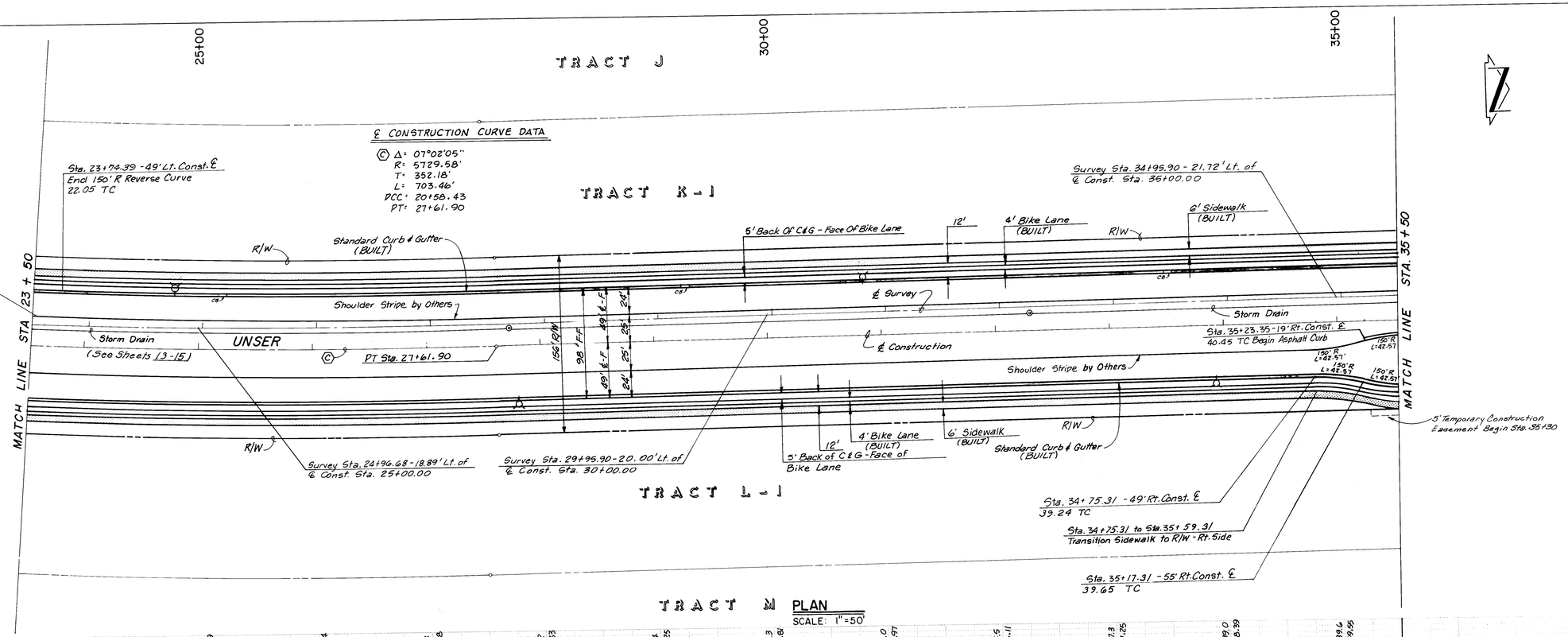
REMARKS
REVISIONS
NO. DATE BY
DESIGN
DESIGNED BY AD DATE 12-83
DRAWN BY LW DATE 12-83
CHECKED BY CA DATE 12-83

I-40-19 NMSHC Brass Cap 1.4 Miles SW of the Intersection of I-40 and Coors Road in the Median of I-40 - Elev. 5151.197

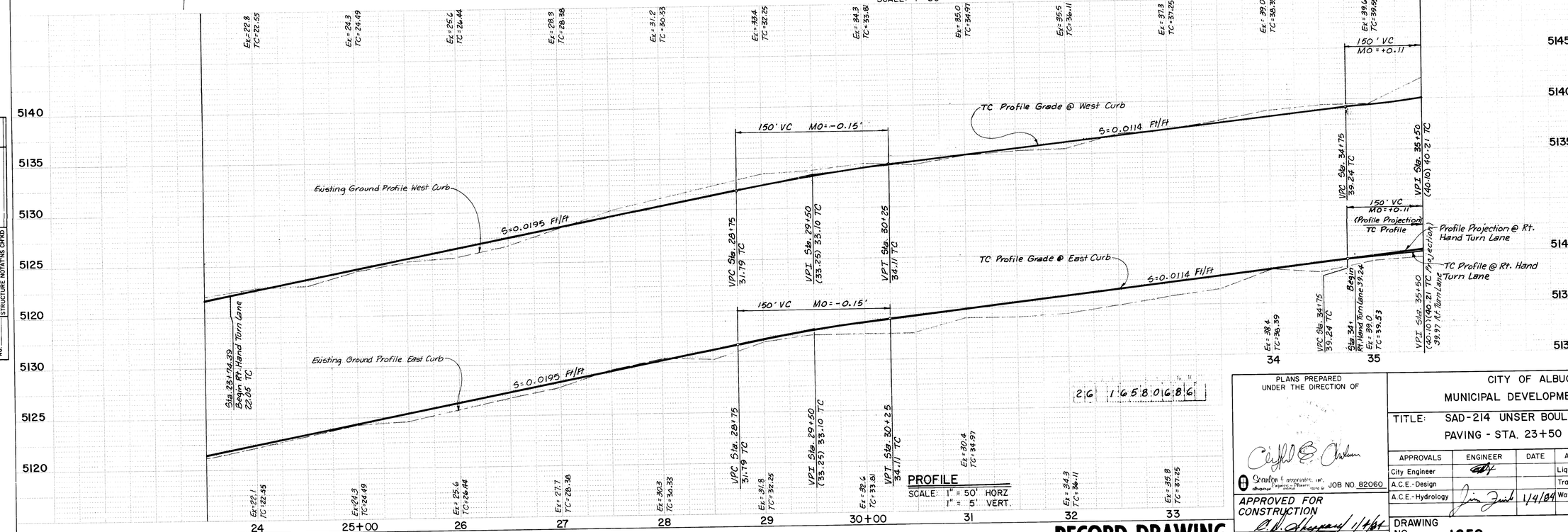
PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
NOTE BOOK
NO.
BY DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTAT'NS CHK'D
NOTE BOOK
NO.
BY DATE


CURB RETURN CURVE DATA
℄ CONSTRUCTION CURVE DATA
SE CURB RETURN AT BLUEWATER
NW CURB RETURN AT BLUEWATER
NW ISLAND AT BLUEWATER
SE ISLAND AT BLUEWATER
Face Mountable Median Curb
TRACT 1-2
TRACT J
TRACT K-1
TRACT G-1
TRACT L-1
TRACT M
BOULEVARD
BLUEWATER ROAD
UNSER
MATCH LINE STA. 11+50
MATCH LINE STA. 23+50
PARCEL "A-1"
PLAN
SCALE: 1" 50'
PROFILE
SCALE: 1" = 50' HORZ.
1" = 5' VERT.
RECORD DRAWING
AS BUILT INFORMATION
BENCH MARKS
SURVEY INFORMATION
FIELD NOTES
REFERENCES
REMARKS
REVISIONS
DESIGN
MICRO-FILM INFORMATION
PLANS PREPARED UNDER THE DIRECTION OF
APPROVED FOR CONSTRUCTION
CITY ENGINEER
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
TITLE: SAD-214 UNSER BOULEVARD
PAVING - STA. 11+50 TO STA. 23+50
DRAWING NO. 1658
SHEET 5 OF 23



PLAN
SCALE: 1" = 50'



PROFILE
SCALE: 1" = 50' HORZ
1" = 5' VERT.

RECORD DRAWING

PLAN	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
NOTE BOOK NO.		

PROFILE	BY	DATE
SURVEYED		
PLOTTED (GRADES CHECKED)		
(BM & INTERS)		
STRUCTURE NOTATNS CHKD		
NOTE BOOK NO.		

AS BUILT INFORMATION
CONTRACTOR Bruce Const. Co. Inc.
WORK STAKED BY Scanlon & Assoc DATE 1984
INSPECTOR'S ACCEPTANCE BY DATE
FIELD VERIFICATION BY Scanlon & Assoc DATE 1984
CHANGES CORRECTED BY Scanlon & Assoc DATE 1984
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
I-40-19 NMSHC Brass Cap 1.4 miles SW of the intersection of I-40 and Coors Road in the Median of I-40 - Elev. = 5151.197

TBM - NE Bonnet Bolt in Fire Hydrant at the NE cor. of UNSER & Los Volcanes - Elev. = 5142.031

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

REFERENCES
MAP NO. K-10
W.O. NO.
EST. NO.

NO.	DATE	REMARKS	BY

REVISIONS
DESIGN
DESIGNED BY AO DATE 12-83
DRAWN BY LH DATE 12-83
CHECKED BY CA DATE 12-83

PLANS PREPARED UNDER THE DIRECTION OF
Clifford E. Anderson
Scanlon & Associates, Inc. JOB NO. 82060
APPROVED FOR CONSTRUCTION
C. E. Anderson 1/4/84
CITY ENGINEER DATE

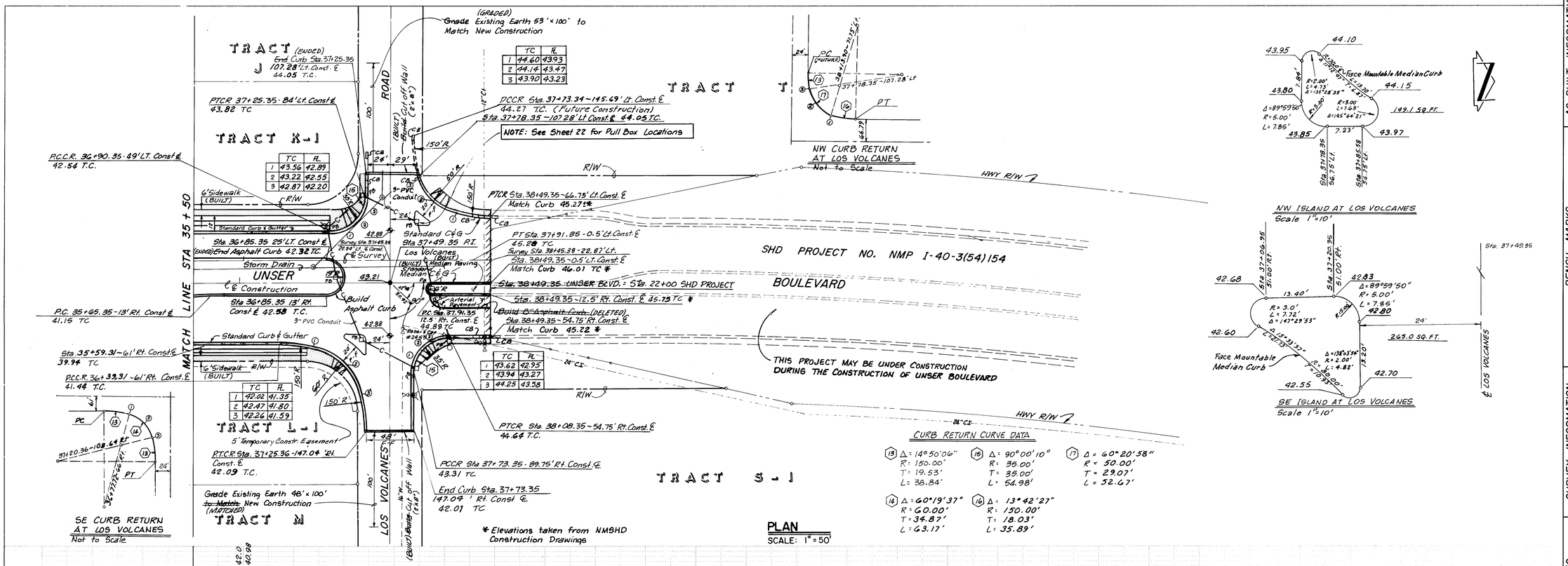
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT

TITLE: SAD-214 UNSER BOULEVARD
PAVING - STA. 23+50 TO STA. 35+50

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	NA James J.	1/4/84
A.C.E.-Design			Traffic	T.U. Kennedy	1/4/84
A.C.E.-Hydrology	Jim Fitch	1/4/84	Water	NA James J.	1/4/84

DRAWING NO. 1658

SHEET 6 OF 23



PLAN — SURVEYED. PLOTTED. ALIGNMENT CHECKED. RT. OF WAY CHECKED. NOTE BOOK NO. — BY — DATE

PROFILE — SURVEYED. PLOTTED. GRADES CHECKED. B.M. NOTED. STRUCTURE NOTATNS CHKD. NOTE BOOK NO. — BY — DATE

RECORD DRAWING

PLANS PREPARED UNDER THE DIRECTION OF — PROFESSIONAL ENGINEER — Sanders & Associates, Inc. Engineers • Planners — JOB NO. 82060

APPROVED FOR CONSTRUCTION — CITY ENGINEER — DATE 1/4/84

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT

TITLE: SAD-214 UNSER BOULEVARD
PAVING - STA. 35+50 TO STA. 39+49.35

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	N/A	1/4/84
A.C.E.-Design			Traffic		1/4/84
A.C.E.-Hydrology		1/4/84	Water	N/A	1/4/84

DRAWING NO. 1658 — SHEET 7 OF 23

2 6 1 6 5 8 0 7 8 6 1

REFERENCES: MAP NO. J-9, K-10; EST. NO.; W.O. NO.

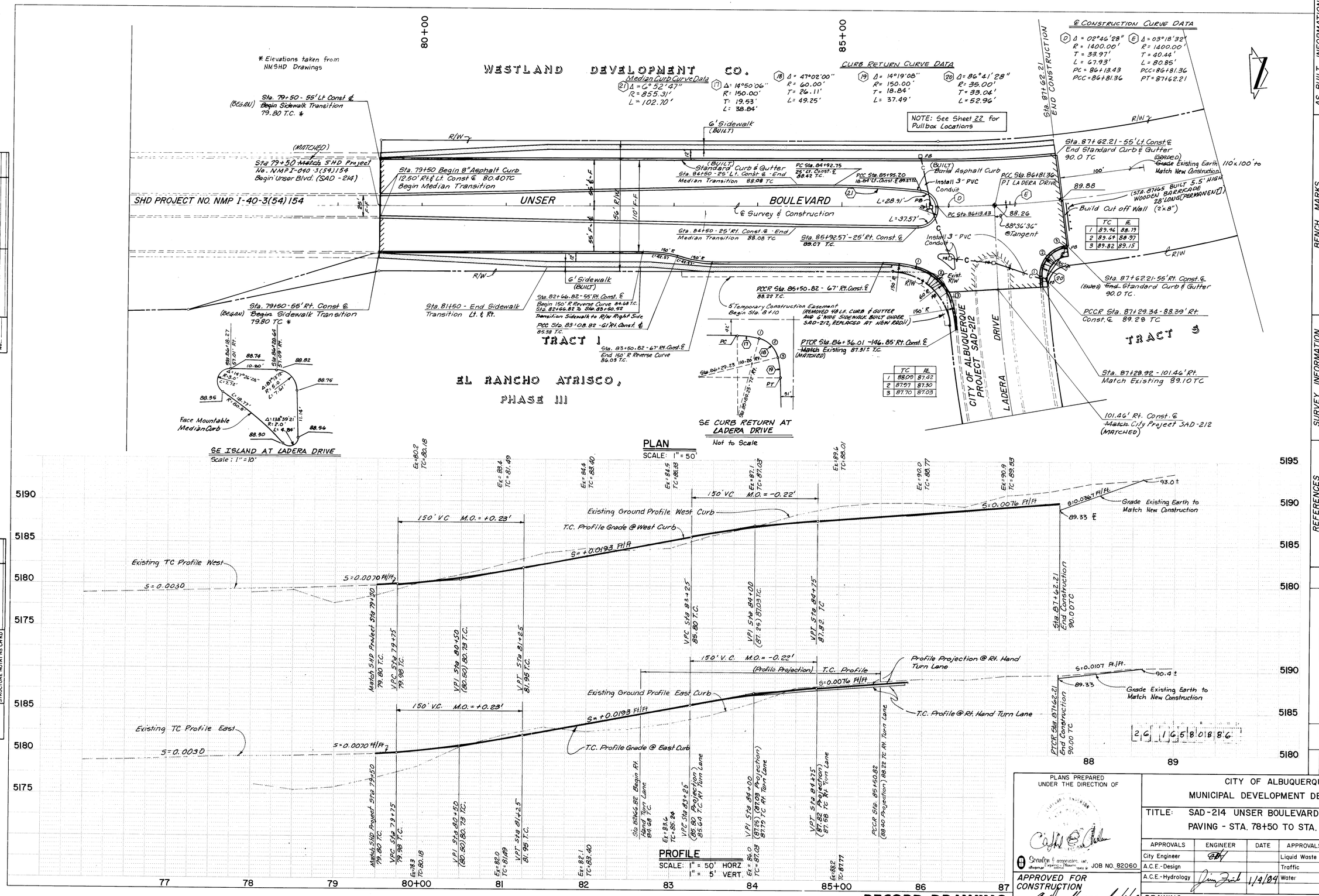
NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY AO DATE 12.83
DRAWN BY LH DATE 12.83
CHECKED BY CA DATE 12.83

AS BUILT INFORMATION
CONTRACTOR Bruce Const. Co. Inc.
WORK STAKED BY Scanlon & Assoc. DATE 1984
WORK ACCEPTANCE BY DATE
FIELD VERIFICATION BY Scanlon & Assoc. DATE 1984
DRAWINGS CORRECTED BY Scanlon & Assoc. DATE 1984
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
I-40-19 NMSHC Brass Cap 1.4 miles SW of the intersection of I-40 and Coors Road in the Median of I-40 - Elev. = 5151.197
TBM - NE Bonnet Bolt in Fire Hydrant at the NE cor. of UNSER & Los VOLCANES - Elev. = 5142.031

SURVEY INFORMATION
FIELD NOTES
NO. — BY — DATE



PLANS PREPARED UNDER THE DIRECTION OF

Crandall & Associates, Inc. JOB NO. 82060

APPROVED FOR CONSTRUCTION

CITY ENGINEER DATE

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT

TITLE: SAD-214 UNSER BOULEVARD
PAVING - STA. 78+50 TO STA. 87+62.21

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	N.A. James J.	1/4/83
A.C.E.-Design			Traffic		1/4/84
A.C.E.-Hydrology		1/4/84	Water	N.A. James J.	1/4/83

DRAWING NO. 1658

SHEET 8 OF 23

AS BUILT INFORMATION
CONTRACTOR Bruce Const. Co. Inc. DATE 1984
STAKED BY Sandia & Assoc. DATE 1984
INSPECTOR'S ACCEPTANCE BY DATE
FIELD VERIFICATION BY Sandia & Assoc DATE 1984
DRAWINGS CORRECTED BY Sandia & Assoc DATE 1984
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
1-40-19 NMSHC Brass Cap. 1.4 mi/es SW of the intersection of I-40 and Coors Road in the Median of I-40 - Elev = 5151.197

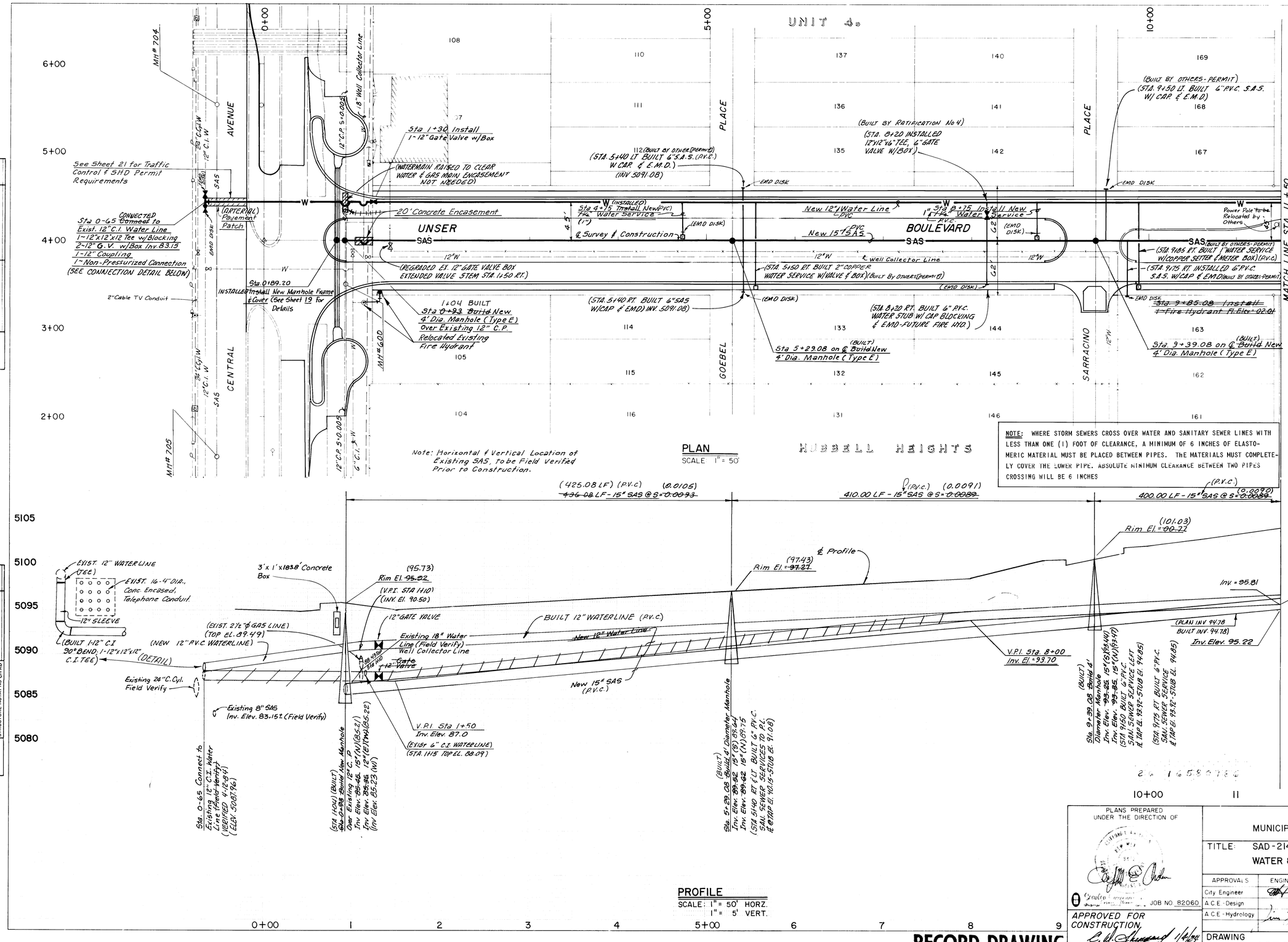
SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

REFERENCES
MAP NO. J-9
EST. NO. W.O. NO.

REMARKS
REVISIONS
NO. DATE BY
DESIGN
DESIGNED BY AO DATE 12-83
DRAWN BY LH DATE 12-83
CHECKED BY CA DATE 12-83

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
NOTE BOOK
NO.
BY DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTATIONS CHKD
NOTE BOOK
NO.
BY DATE



NOTE: WHERE STORM SEWERS CROSS OVER WATER AND SANITARY SEWER LINES WITH LESS THAN ONE (1) FOOT OF CLEARANCE, A MINIMUM OF 6 INCHES OF ELASTOMERIC MATERIAL MUST BE PLACED BETWEEN PIPES. THE MATERIALS MUST COMPLETELY COVER THE LOWER PIPE. ABSOLUTE MINIMUM CLEARANCE BETWEEN TWO PIPES CROSSING WILL BE 6 INCHES

PLAN — SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT OF WAY CHECKED. NOTE BOOK NO. BY DATE

PROFILE — SURVEYED, PLOTTED, GRADES CHECKED, B.M. NOTED, STRUCTURE NOTATNS CHKD. NOTE BOOK NO. BY DATE

AS BUILT INFORMATION — CONTRACTOR Bruce Const. Co. Inc. DATE 1/84; WORK STAKED BY Sanders & Assoc. DATE 1/84; ACCEPTANCE BY DATE; FIELD LOCATION BY Sanders & Assoc. DATE 1/84; DRAWINGS CORRECTED BY Sanders & Assoc. DATE 1/84

MICRO-FILM INFORMATION — RECORDED BY DATE; NO.

BENCH MARKS — TBM - North Bonnet Bolt of Fire Hydrant - 1.14' North of Sta. 3+29.5 CENTRAL - Elev. = 5094.30; TBM - Gin Gear on North side of Power Pole 142' Left - Sta 11+42 - Elev. = 5104.139

I-40-19 NMSHC Brass Cap 1.4 miles S.W. of the intersection of I-40 and COORS ROAD in the median of I-40 - Elev. = 5151.197

SURVEY INFORMATION — FIELD NOTES NO BY DATE; W.O. NO

REFERENCES — MAP NO. K-10; EST. NO.

REMARKS — REVISIONS — DESIGN

DESIGNED BY AO DATE 12-83; DRAWN BY DW DATE 12-83; CHECKED BY CA DATE 12-83

PLANS PREPARED UNDER THE DIRECTION OF

Geoffrey E. Chadwick — JOB NO. 82060

APPROVED FOR CONSTRUCTION, 1/4/84
CITY ENGINEER DATE

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT

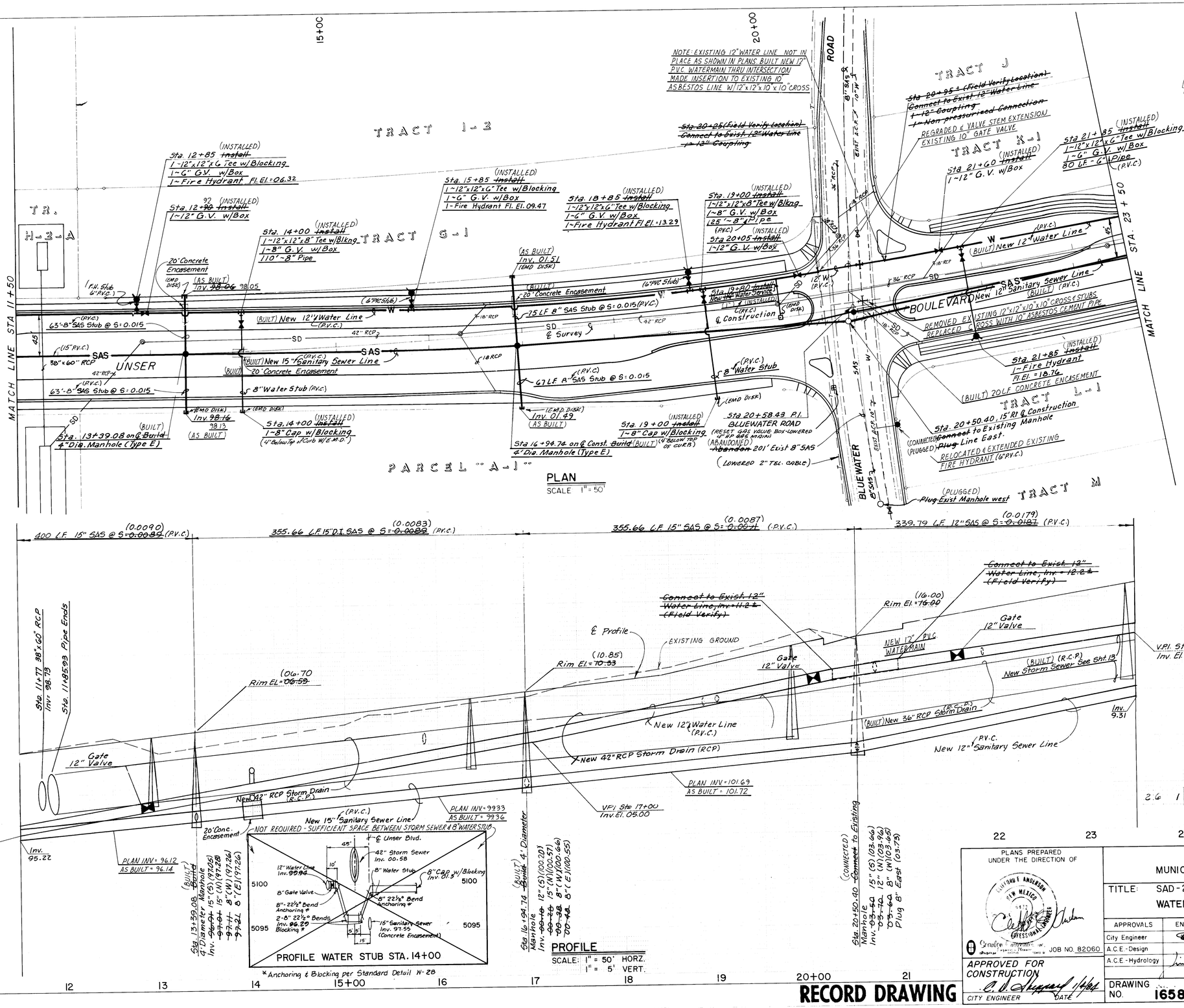
TITLE: SAD-214 UNSER BOULEVARD
WATER & SEWER - STA. 0+00 TO STA. 11+50

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	NA James J.	1/4/84
A.C.E. - Design			Traffic	NA	1/4/84
A.C.E. - Hydrology	Jim Finch	1/4/84	Water	NA James J.	1/4/84

DRAWING NO. 1658

SHEET 9 OF 23

RECORD DRAWING



RECORD DRAWING

PLAN	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
RT OF WAY CHECKED		
NOTE BOOK		
NO.		

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
B.M. NOTED		
STRUCTURE NOTAT'NS CH'KD		
NOTE BOOK		
NO.		

AS BUILT INFORMATION

CONTRACTOR Bruce Const. Co. Inc. DATE 1984
WORK STAKED BY Sawlor & Assoc DATE 1984
INSPECTED & ACCEPTED BY DATE
FIELD VERIFICATION BY Sawlor & Assoc DATE 1984
DRAWINGS CORRECTED BY Sawlor & Assoc DATE 1984

MICRO-FILM INFORMATION

RECORDED BY DATE
NO

BENCH MARKS

T.B.M.- Gin Gear on North side of Power Pole 122' Left - Sta. 11+42 - Elev.=5104.139

SURVEY INFORMATION

FIELD NOTES		
NO.	BY	DATE

REFERENCES

MAP NO. K-10	W.O. NO.
EST. NO.	

REVISIONS

NO.	DATE	BY	REMARKS

DESIGN
DESIGNED BY AO DATE 12-83
DRAWN BY DW DATE 12-83
CHECKED BY CA DATE 12-83

T.B.M. - Brass Cap 1.4 miles S.W. of the intersection of I-40 and COORS ROAD in the median of I-40 Elev.=5151.197

5125

2.6 1658108.6

PLANS PREPARED UNDER THE DIRECTION OF

CLIFFORD E. ANDERSON NEW MEXICO 5873 PROFESSIONAL ENGINEER

Sandoval Associates, Inc. JOB NO. 82060

APPROVED FOR CONSTRUCTION

CITY ENGINEER DATE 1/4/84

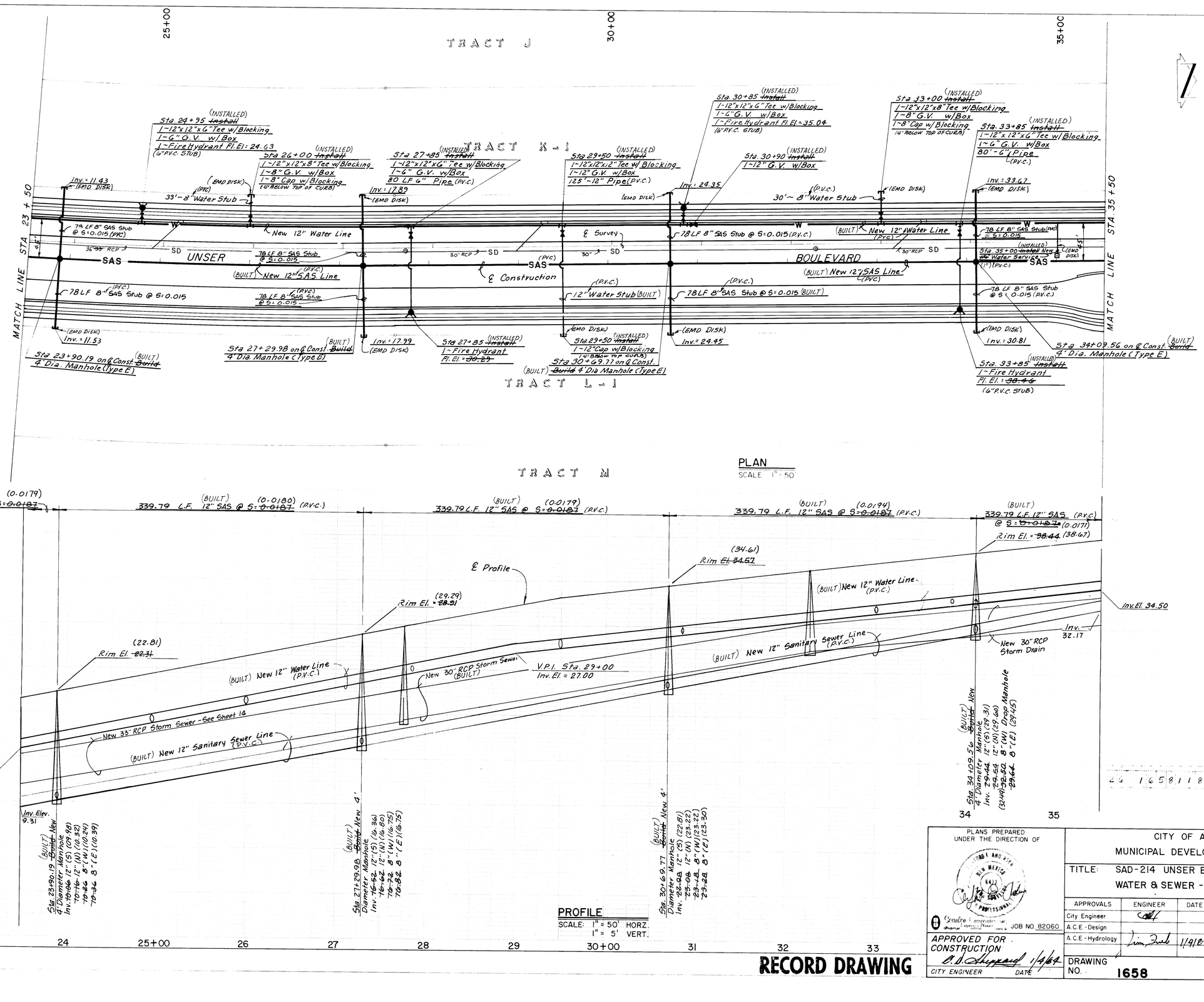
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT

TITLE: SAD-214 UNSER BOULEVARD
WATER & SEWER - STA. 11+50 TO STA. 23+50

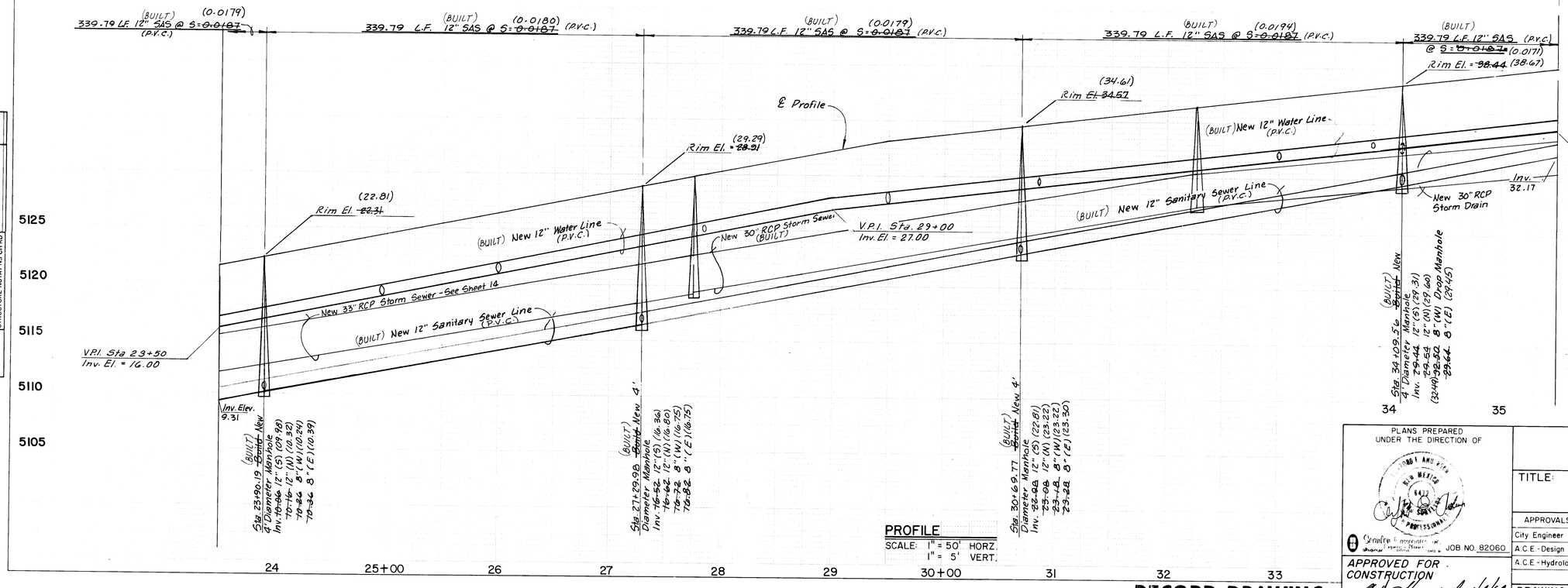
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		1/4/84
A.C.E.-Design			Traffic	NA	1/4/84
A.C.E.-Hydrology		1/4/84	Water		1/4/84

DRAWING NO. 1658

SHEET 10 OF 23



PLAN
SCALE 1" = 50'



PROFILE
SCALE: 1" = 50' HORZ.
1" = 5' VERT.

RECORD DRAWING

PLAN		BY	DATE
	SURVEYED		
	PLOTTED		
	HORIZ. ALIGNMENT CHECKED		
NOTE BOOK	VERT. ALIGNMENT CHECKED		
NO.	RT. OF WAY CHECKED		

PROFILE		BY	DATE
	SURVEYED		
	PLOTTED		
	GRADES CHECKED		
NOTE BOOK	B.M.'s NOTED		
NO.	STRUCTURE NOTAT'NS CHK'D		

PLANS PREPARED UNDER THE DIRECTION OF

Sanders & Associates, Inc. Engineers Planners Surveyors JOB NO. 82060

APPROVED FOR CONSTRUCTION
1/4/84
CITY ENGINEER DATE

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT

TITLE: SAD-214 UNSER BOULEVARD
WATER & SEWER - STA. 23+50 TO STA. 35+50

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		1/4/84
A.C.E.-Design			Traffic	N/A	1/4/84
A.C.E.-Hydrology		1/4/84	Water		1/4/84

DRAWING NO. 1658
SHEET 11 OF 23

AS BUILT INFORMATION
CONTRACTOR Bruce Const. Co. Inc. WORK STAKED BY Sanders & Assoc. DATE 1984
INSPECTOR'S ACCEPTANCE BY DATE
FIELD VERIFICATION BY Sanders & Assoc DATE 1984
DRAWINGS CORRECTED BY Sanders & Assoc DATE 1984
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
I-40-19 NMSHC Brass Cap 1.4 miles SW of the intersection of I-40 and Coors Road in the Median of I-40 - Elev. = 5151.197
T.B.M. - NE Bonnet Bolt in Fire Hydrant at the NE cor. of UNSER & Los Volcanes - Elev. = 5142.031

SURVEY INFORMATION
FIELD NOTES

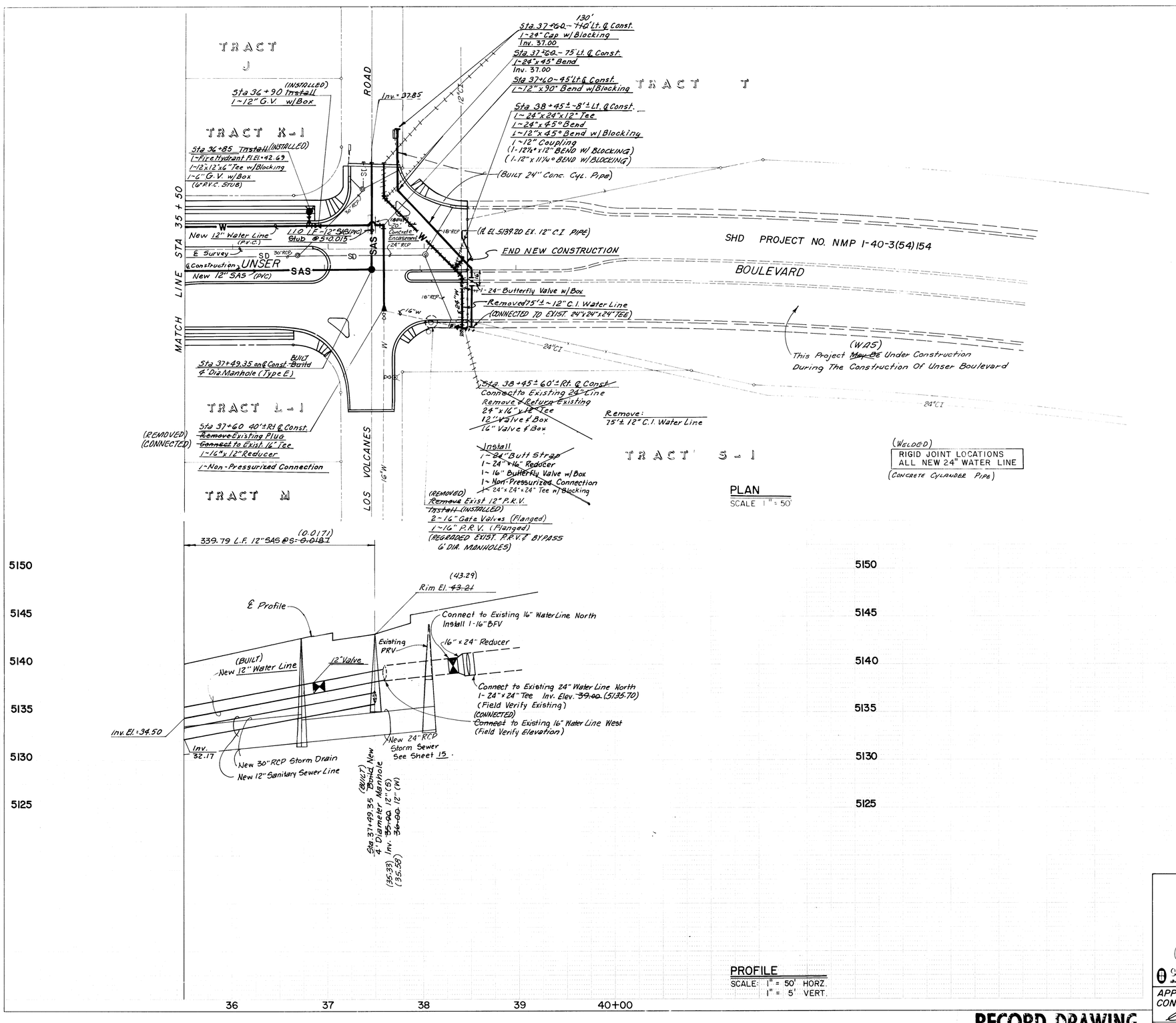
NO.	BY	DATE

REFERENCES
MAP NO. K-10
EST. NO.
W.O. NO.

NO.	DATE	BY	REMARKS
			REVISIONS
			DESIGN

DESIGNED BY AO DATE 12-83
DRAWN BY DW DATE 12-83
CHECKED BY CA DATE 12-83

6 6 1658 1186



RECORD DRAWING

26 16581286

PLAN — SURVEYED, PLOTTED, ALIGNMENT CHECKED, R/T OF WAY CHECKED. NOTE BOOK NO. BY DATE

PROFILE — SURVEYED, PLOTTED, GRADES CHECKED, B.M. NOTED, STRUCTURE NOTATNS CHKD. NOTE BOOK NO. BY DATE

AS BUILT INFORMATION
CONTRACTOR Bruce Const Co. Inc. DATE 1984
STAKED BY Scanlon & Assoc. DATE 1984
INSPECTOR'S ACCEPTANCE BY DATE
FIELD VERIFICATION BY Scanlon Assoc DATE 1984
DRAWINGS CORRECTED BY Scanlon & Assoc. DATE 1984
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
I-40-19 NMSHC Brass Cap. 1.4 miles SW of the intersection of I-40 and Coors Road in the Median of I-40 - Elev. = 5151.197
TBM - NE Bonnet Bolt in Fire Hydrant at the NE cor. of Unser & Los Volcanes - Elev. = 5142.031

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

REFERENCES
MAP NO. J-9, K-10
W.O. NO.
EST. NO.

NO.	DATE	REMARKS	BY

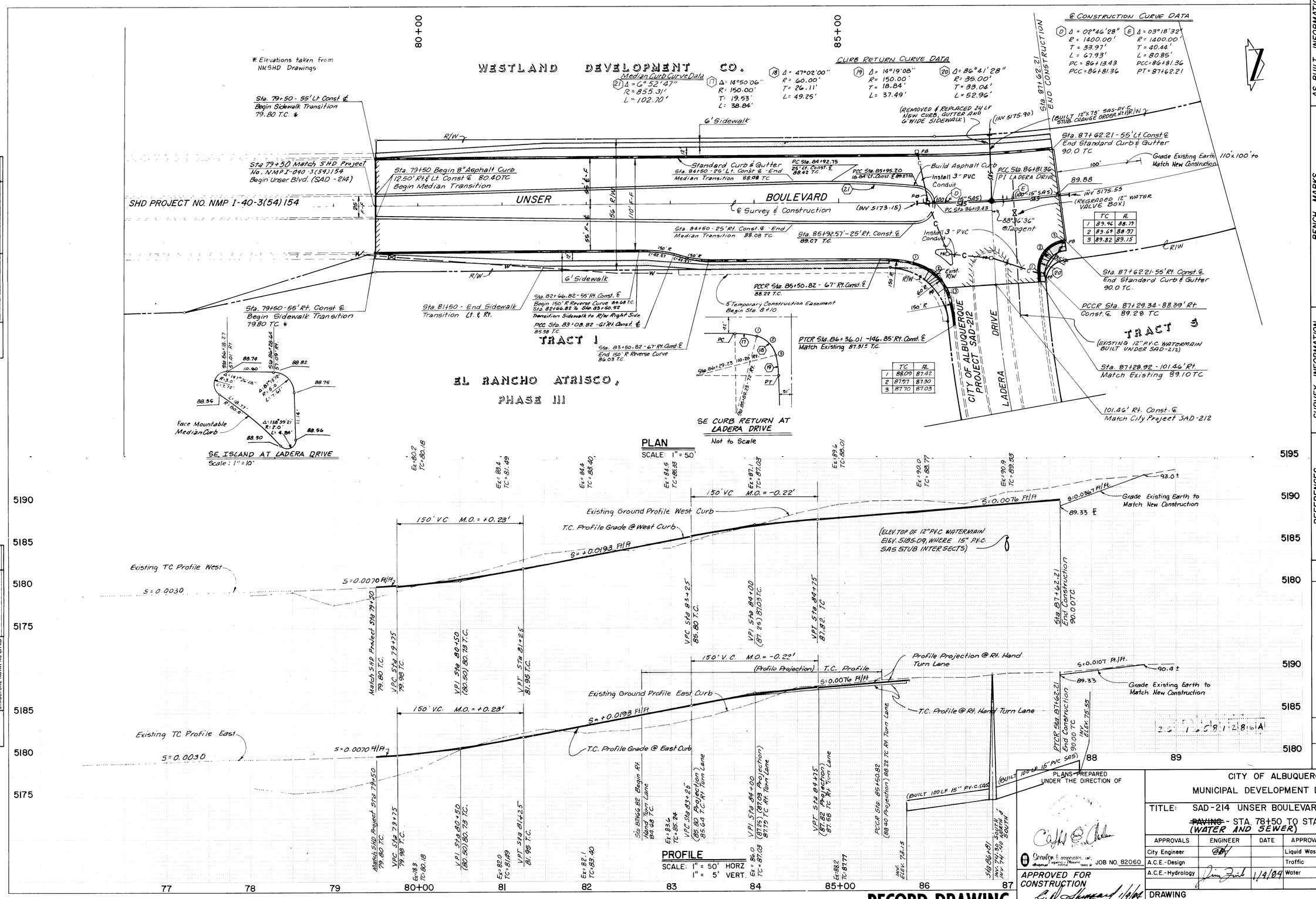
REVISIONS
DESIGN
DESIGNED BY A.O. DATE 12-83
DRAWN BY D.W. DATE 12-83
CHECKED BY C.A. DATE 12-83

PLANS PREPARED UNDER THE DIRECTION OF
Scanlon & Associates, Inc. Albuquerque Engineering Planning Surveying JOB NO. 82060
APPROVED FOR CONSTRUCTION
CITY ENGINEER DATE

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
TITLE: SAD-214 UNSER BOULEVARD
WATER & SEWER - STA. 35+50 TO STA. 39+49.35

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	James Lapmillie	1/4/84
A.C.E.-Design			Traffic	NA	1/4/84
A.C.E.-Hydrology	Jim Zuck	1/4/84	Water	James Lapmillie	1/4/84

DRAWING NO. 1658
SHEET 12 OF 23



	TC	FE
1	88.09	87.42
2	87.97	87.30
3	87.70	87.03

	TC	FE
1	89.46	88.79
2	89.69	88.97
3	89.82	89.15

BENCH MARKS

1-40-19 NMSHC Brass Cap 1.4 miles SW of the intersection of I-40 and Coors Road in the Median of I-40 - Elev. = 5151.197

AS BUILT INFORMATION

CONTRACTOR Bruce Const. Co. Inc. DATE 1984
WORK STAKED BY Scanlon & Assoc DATE 1984
INSPECTOR'S ACCEPTANCE BY DATE
FIELD VERIFICATION BY Scanlon & Assoc DATE 1984
DRAWINGS CORRECTED BY Scanlon & Assoc DATE 1984
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

REFERENCES

MAP NO. J-9
W.O. NO.
EST. NO.

REMARKS

REVISIONS

NO.	DATE	BY

DESIGN
DESIGNED BY AD DATE 12 83
DRAWN BY LH DATE 12 83
CHECKED BY CA DATE 12 83

PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / R/T OF WAY CHECKED — NOTE BOOK NO. — BY — DATE

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / R/W CHECKED / STRUCTURE NOTATNS CHKD — NOTE BOOK NO. — BY — DATE

PLANS PREPARED UNDER THE DIRECTION OF
Scanlon & Associates, Inc. Consulting Engineers Surveyors
JOB NO. 82060
APPROVED FOR CONSTRUCTION
CITY ENGINEER — DATE 1/4/84

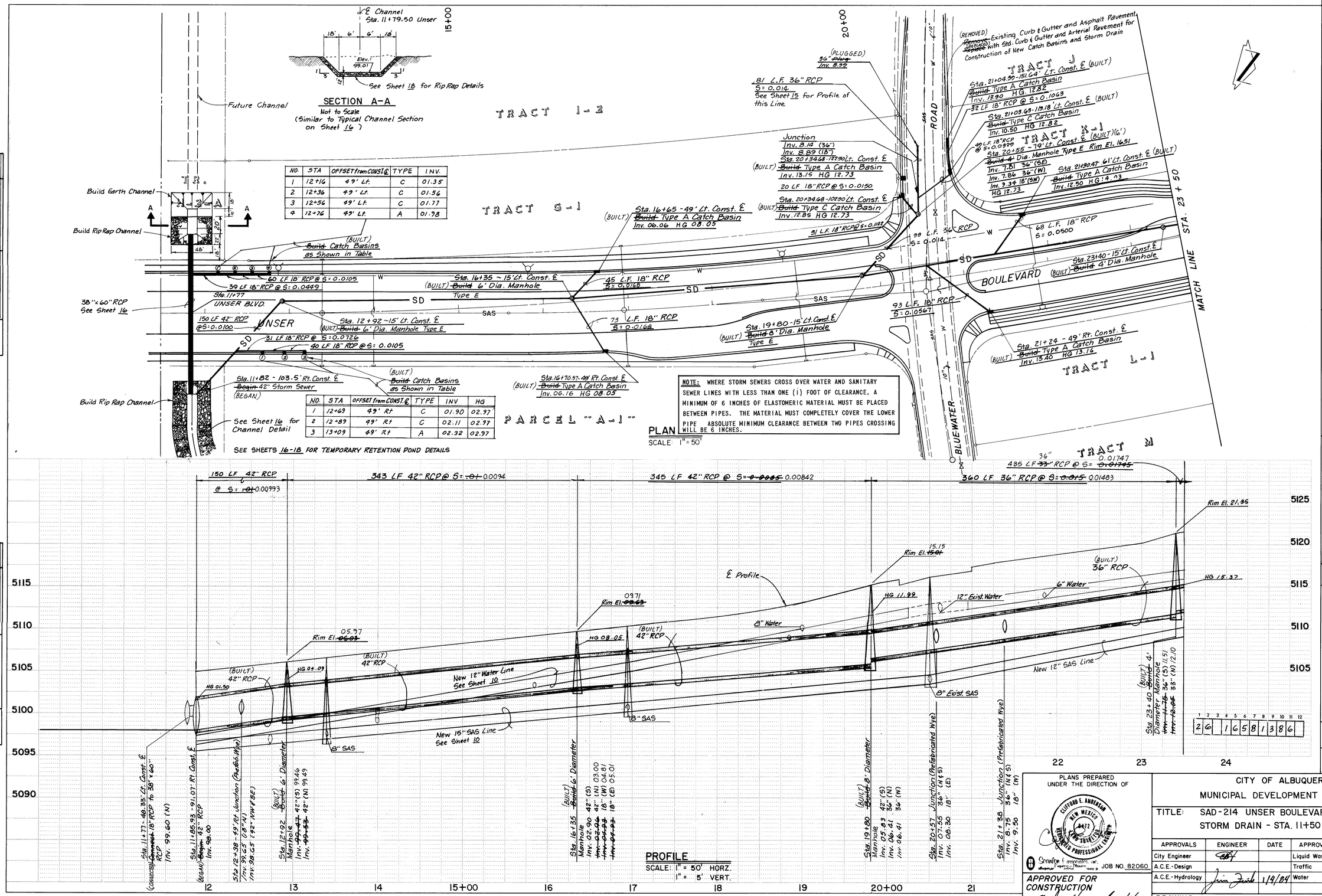
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT

TITLE: SAD-214 UNSER BOULEVARD
~~PAVING~~ - STA. 78+50 TO STA. 87+62.21
(WATER AND SEWER)

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	N.A. James J.	1/4/83
A.C.E.-Design			Traffic		1/4/84
A.C.E.-Hydrology		1/4/84	Water	N.A. James J.	1/4/83

DRAWING NO. 1658
SHEET 12A OF 23

RECORD DRAWING



NO.	STA	OFFSET from CONST. ℄	TYPE	INV.
1	12+16	49' Lt.	C	01.35
2	12+36	49' Lt.	C	01.56
3	12+56	49' Lt.	C	01.77
4	12+76	49' Lt.	A	01.98

NO.	STA	OFFSET from CONST. ℄	TYPE	INV	HG
1	12+69	49' Rt	C	01.90	02.97
2	12+89	49' Rt	C	02.11	02.97
3	13+09	49' Rt	A	02.32	02.97

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
B.M. & TIES
STRUCTURE NOTATNS CK'KD
NOTE BOOK
NO.
BY
DATE

AS BUILT INFORMATION
CONTRACTOR Bruce Const. Co. Inc.
WORK STAKED BY Saylor & Rose DATE 1984
ACCEPTANCE INSPECTOR BY DATE
FIELD LOCATION BY Sanford & Rose DATE 1984
DRAWINGS CORRECTED BY Sanford & Rose DATE 1984
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
TBM - Gin Gear on North side of Power Pole 122' Left - Sta. 11+42 - Elev. = 5104.139

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

REFERENCES
MAP NO. K-10
W.O. NO.
EST. NO.

REMARKS
REVISIONS
DESIGN
NO. DATE BY
DESIGNED BY KF DATE 12-83
DRAWN BY SGH DATE 12-83
CHECKED BY CA DATE 12-83

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

PLANS PREPARED UNDER THE DIRECTION OF
CLIFFORD E. ANDERSON NEW MEXICO 8472 REGISTERED PROFESSIONAL ENGINEER
Scantlin & Associates, Inc. Engineers — Planners JOB NO. 82060

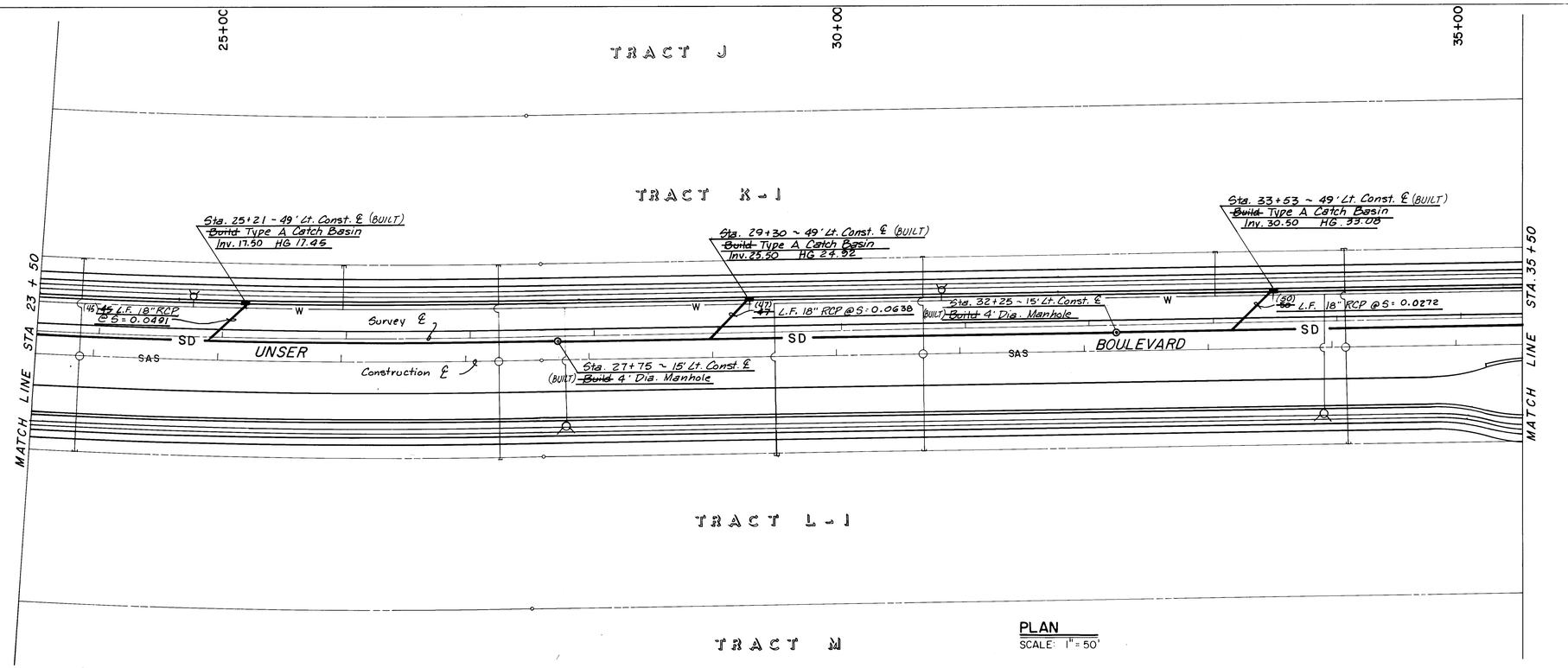
APPROVED FOR CONSTRUCTION
CITY ENGINEER DATE 1/4/84

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT

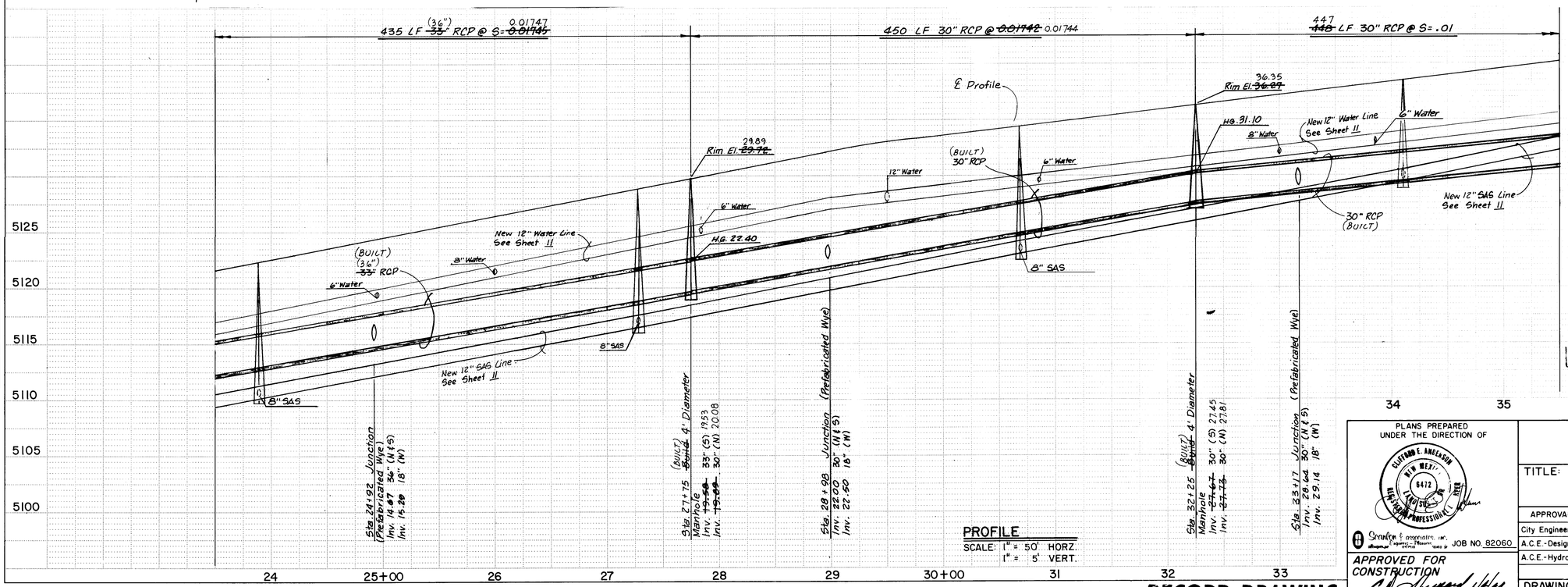
TITLE: SAD-214 UNSER BOULEVARD
STORM DRAIN - STA. 11+50 TO STA. 23+50

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	NA	1/4/84
A.C.E.-Design			Traffic	NA	1/4/84
A.C.E.-Hydrology		1/4/84	Water	NA	1/4/84

DRAWING NO. 1658
SHEET 13 OF 23



PLAN
SCALE: 1" = 50'



PROFILE
SCALE: 1" = 50' HORZ.
1" = 5' VERT.

RECORD DRAWING

PLANS PREPARED UNDER THE DIRECTION OF
CLIFFORD E. ANDERSON
NEW MEXICO 6472 REGISTERED PROFESSIONAL ENGINEER
Scanlon & Associates, Inc. Engineers - Planners - Surveyors
JOB NO. 82060
APPROVED FOR CONSTRUCTION
C. E. Anderson 1/4/84
CITY ENGINEER DATE

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT

TITLE: SAD-214 UNSER BOULEVARD
STORM DRAIN - STA. 23+50 TO STA. 35+50

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	NA James J.	1/4/84
A.C.E.-Design			Traffic	NA	1/4/84
A.C.E.-Hydrology	Jim Feith	1/4/84	Water	NA James J.	1/4/84

DRAWING NO. 1658
SHEET 14 OF 23

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
NOTE BOOK NO.
BY DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK NO.
BY DATE

AS BUILT INFORMATION
CONTRACTOR Brace Const. Co. Inc.
WORK STAKED BY Scanlon & Assoc. DATE 1/84
INSPECTOR'S ACCEPTANCE BY DATE
FIELD VERIFICATION BY Scanlon & Assoc. DATE 1/84
DRAWINGS CORRECTED BY Scanlon & Assoc. DATE 1/84
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
I-40-19 NMSHC Brass Cap 1.4 miles SW of the intersection of I-40 and Coors Road in the Median of I-40 - Elev. = 5151.197
TBM - NE Bonnet Bolt in Fire Hydrant at the NE cor. of UNSER & Los Volcanes - Elev. = 5142.031

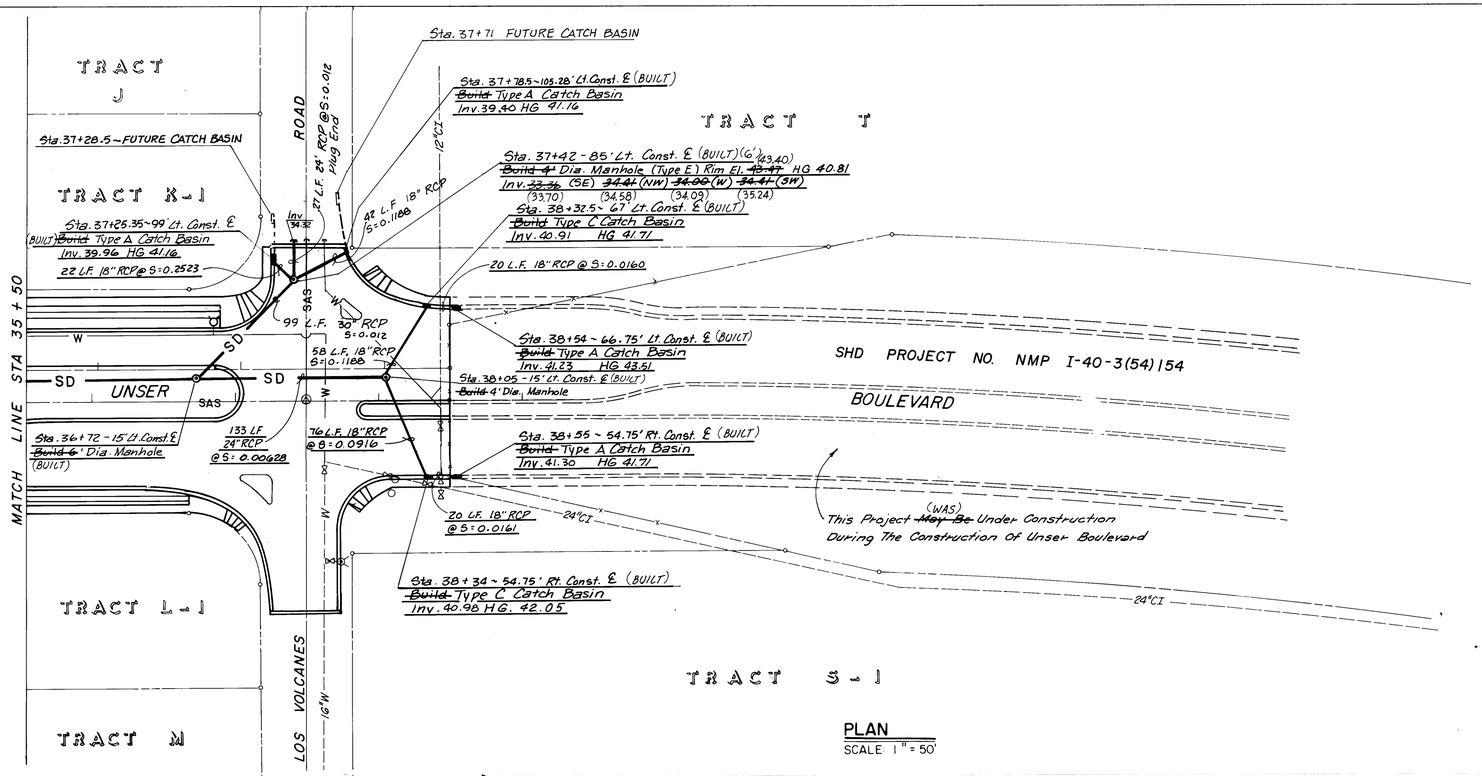
SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

REFERENCES
MAP NO. K-10
W.O. NO.
EST. NO.

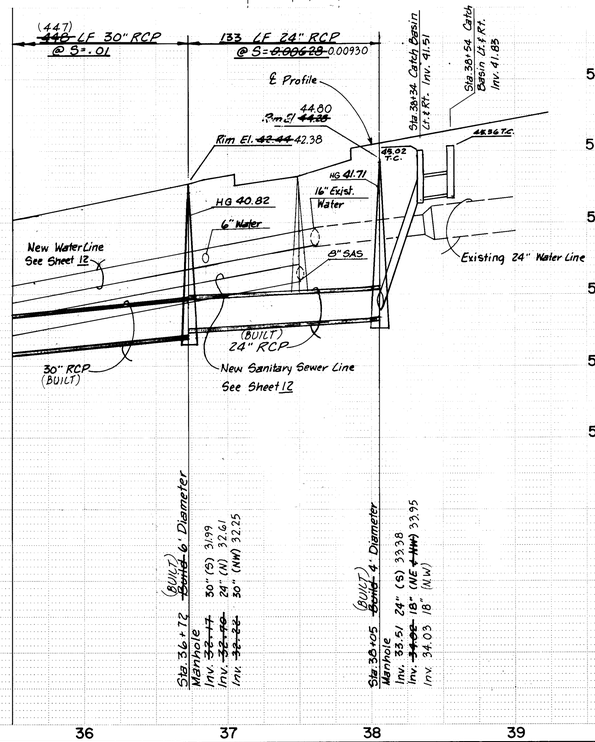
NO.	DATE	REMARKS REVISIONS DESIGN	BY
		DATE 12-83	
		DATE 12-83	
		DATE 12-83	

DESIGNED BY K.F.
DRAWN BY S.G.H.
CHECKED BY C.A.

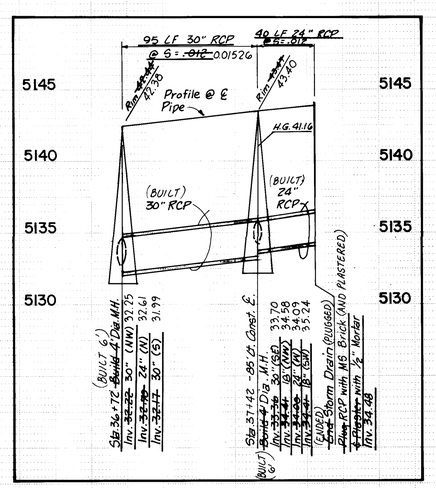
1 2 3 4 5 6 7 8 9 10 11 12
2 6 1 6 5 8 1 4 8 6



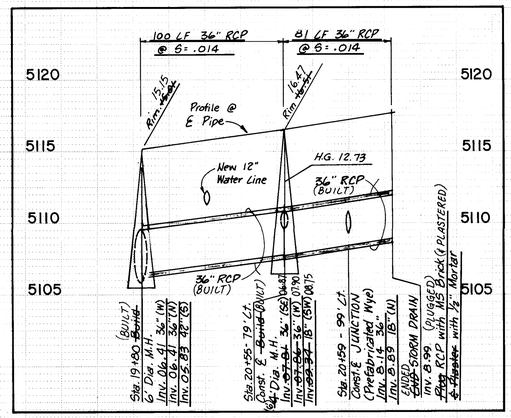
PLAN
SCALE: 1" = 50'



PROFILE
SCALE: 1" = 50' HORZ.
1" = 5' VERT.



STORM DRAIN PROFILE WEST AT LOS VOLCANES



STORM DRAIN PROFILE WEST AT BLUEWATER
(SEE SHEET 13 FOR PLAN VIEW)

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

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
NOTE BOOK NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK NO.
BY
DATE

AS BUILT INFORMATION
CONTRACTOR Brace Const. Co. Inc. DATE 1984
WORK STAKED BY Santa Fe Asoc. DATE 1984
INSPECTOR ACCEPTANCE BY DATE
FIELD VERIFICATION BY Santa Fe Asoc. DATE 1984
DRAWINGS CORRECTED BY Santa Fe Asoc. DATE 1984
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
I-40-19. NMSHC Brass Cap 1.4 mi/ss SW of the intersection of I-40 and Coors Road in the Median of I-40 - Elev. = 5151.197
TBM: N.E. Bonnet Bolt in Fire Hydrant at the NE cor. of UNSER & Los VOLCANES - Elev. = 5142.031

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

REFERENCES
MAP NO. J-9, K-10
E.S.T. NO.
W.O. NO.

REVISIONS

NO.	DATE	REMARKS	BY

DESIGN
DESIGNED BY KF DATE 12-83
DRAWN BY SGH DATE 12-83
CHECKED BY CA DATE 12-83

PLANS PREPARED UNDER THE DIRECTION OF
CLIFFORD E. ANDERSON N.M. REG. 8472 PROFESSIONAL ENGINEER
Granlund & Associates, Inc. JOB NO. 82060
APPROVED FOR CONSTRUCTION
C. E. Anderson 1/4/84
CITY ENGINEER DATE

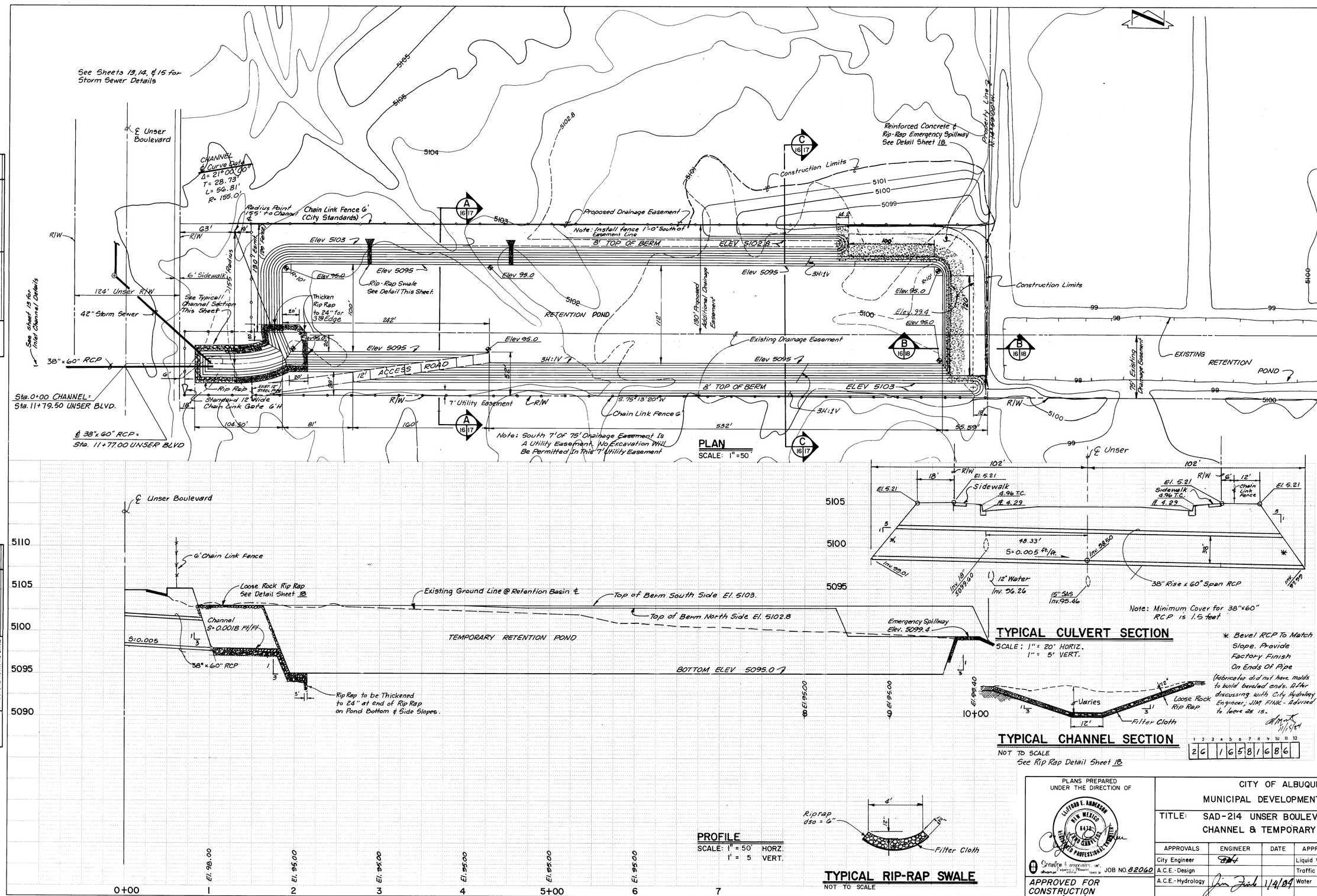
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT

TITLE: SAD-214 UNSER BOULEVARD
STORM DRAIN - STA. 35+50 TO STA. 39+49.35

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	N.A.	1/4/84
A.C.E.-Design			Traffic	N.A.	1/4/84
A.C.E.-Hydrology		1/4/84	Water	N.A.	1/4/84

DRAWING NO. 1658
SHEET 15 OF 23

RECORD DRAWING



PLAN
SCALE: 1" = 50'

PROFILE
SCALE: 1" = 50' HORZ.
1" = 5' VERT.

TYPICAL CULVERT SECTION
SCALE: 1" = 20' HORIZ.
1" = 5' VERT.

* Bevel RCP To Match Slope. Provide Factory Finish On Ends Of Pipe

(Fabricator did not have molds to build beveled ends. After discussing with City Hydrology Engineer, JIM FINK - Advised to leave as is.)

TYPICAL CHANNEL SECTION
NOT TO SCALE
See Rip Rap Detail Sheet 18

TYPICAL RIP-RAP SWALE
NOT TO SCALE

RECORD DRAWING

PLAN	BY	DATE
SURVEYED		
PLOTTED		
FIELD BOOK		
CROSS CHECKED		
R/W CHECKED		
NOTE BOOK NO.		

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
FIELD BOOK		
CROSS CHECKED		
G. M. NOTED		
NOTE BOOK NO.	STRUCTURE NOTATIONS CHKD	

AS BUILT INFORMATION

CONTRACTOR	Bruce Const. Co. Inc.	
WORK STAKED BY	Sanders & Assoc.	DATE 1/1984
INSPECTOR'S ACCEPTANCE BY		DATE
VERIFICATION BY	Sanders & Assoc.	DATE 1/1984
DRAWINGS CORRECTED BY	Sanders & Assoc.	DATE 1/1984
MICRO-FILM INFORMATION		
RECORDED BY		DATE
NO.		

BENCH MARKS

1-40-19 NM5HC Brass Cap 1.4 miles S.W. of the intersection of I-40 and COORS ROAD in the median of I-40 - Elev. 5151.197

TBM: Gin Gear on North side of Power Pole 142' Left - Sta. 11+42 - Elev. 5104.139

SURVEY INFORMATION

FIELD NOTES		
NO.	BY	DATE

REFERENCES

MAP NO.	W.O. NO.
EST. NO.	

REMARKS

NO.	DATE	BY

REVISIONS

DESIGN

DESIGNED BY KF DATE 12-83
DRAWN BY SGM DATE 12-83
CHECKED BY CA DATE 12-83

PLANS PREPARED UNDER THE DIRECTION OF

LLOYD E. ANDERSON — NEW MEXICO — REGISTERED PROFESSIONAL ENGINEER

Sanders & Associates, Inc. Engineers — Planners — Surveyors

JOB NO. 82060

APPROVED FOR CONSTRUCTION
C. D. Hupperich 1/4/84
CITY ENGINEER — DATE

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT

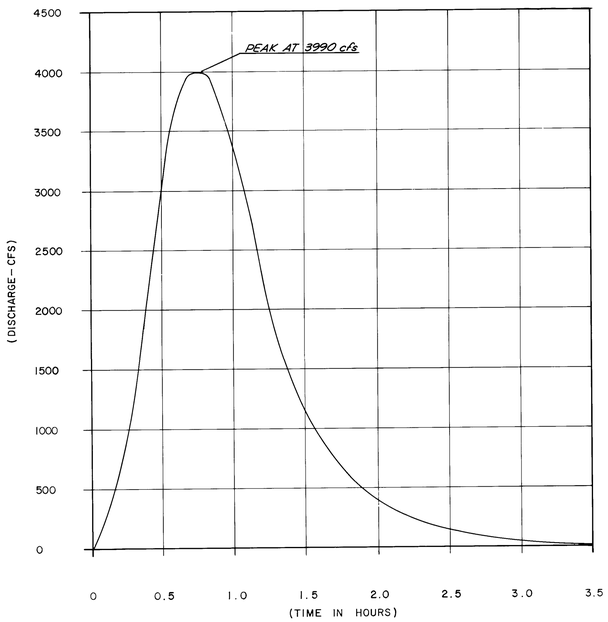
TITLE: SAD-214 UNSER BOULEVARD
CHANNEL & TEMPORARY RETENTION POND

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	NA	1/4/84
A.C.E.-Design			Traffic	NA	1/4/84
A.C.E.-Hydrology	Jim Fink	1/4/84	Water	NA	1/4/84

DRAWING NO. 1658

SHEET 16 OF 23

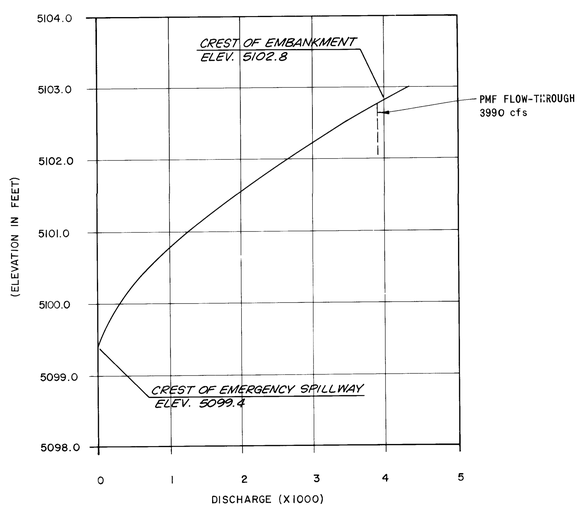
26 1658168 6



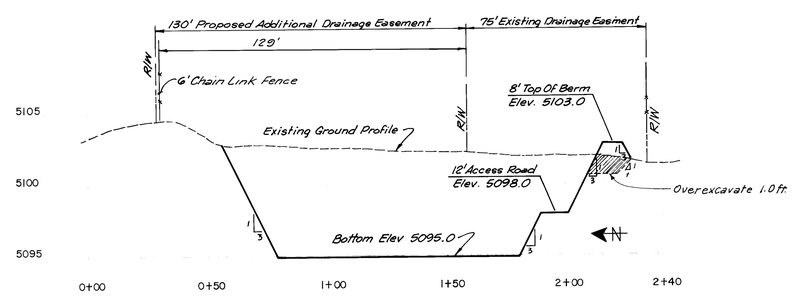
PMF HYDROGRAPH 6 HOUR THUNDERSTORM

TEMPORARY RETENTION POND STORAGE DATA		
ELEVATION (FT)	AREA (ACRES)	ACCUM.STORAGE (ACRE - FEET)
5095.0	1.883	
		1.946
5096.0	2.010	
		4.0202
5097.0	2.139	
		6.224
5098.0	2.269	
		8.559
5099.0	2.401	
		9.528
5099.4 ELEV. OF EMERGENCY SPILLWAY	2.445	

NOTE: 100 YEAR - 24 HOUR DESIGN STORM REQUIRES 9.18 ACRE-FEET STORAGE



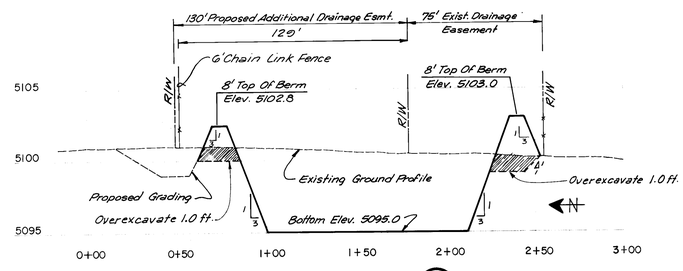
EMERGENCY SPILLWAY DISCHARGE CURVE



SECTION A/16

SCALE: 1" = 30' HORIZ.
1" = 5' VERT.

NOTE:
Compact Earth Berms to 95% Maximum Density ASTM - D1557



SECTION C/16

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

26 1 6 5 8 1 7 8 6

RECORD DRAWING

PLANS PREPARED UNDER THE DIRECTION OF
ALFRED E. ANDERSON
N.M. 6412
REGISTERED PROFESSIONAL ENGINEER

JOB NO. 82060

APPROVED FOR CONSTRUCTION
1/4/84
CITY ENGINEER DATE

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT

TITLE: SAD-214 UNSER BOULEVARD
TEMPORARY RETENTION POND DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	NA	1/4/84
A.C.E.-Design			Traffic	NA	1/4/84
A.C.E.-Hydrology		1/4/84	Water	NA	1/4/84

DRAWING NO. 1658

SHEET 17 OF 23

AS BUILT INFORMATION
CONTRACTOR Bruce Const. Co. Inc.
WORK STAKED BY Sanford & Assoc. DATE 1984
INSPECTOR
ACCEPTANCE BY DATE
FIELD VERIFICATION BY Sanford & Assoc. DATE 1984
DRAWINGS REVISED BY Sanford & Assoc. DATE 1984
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

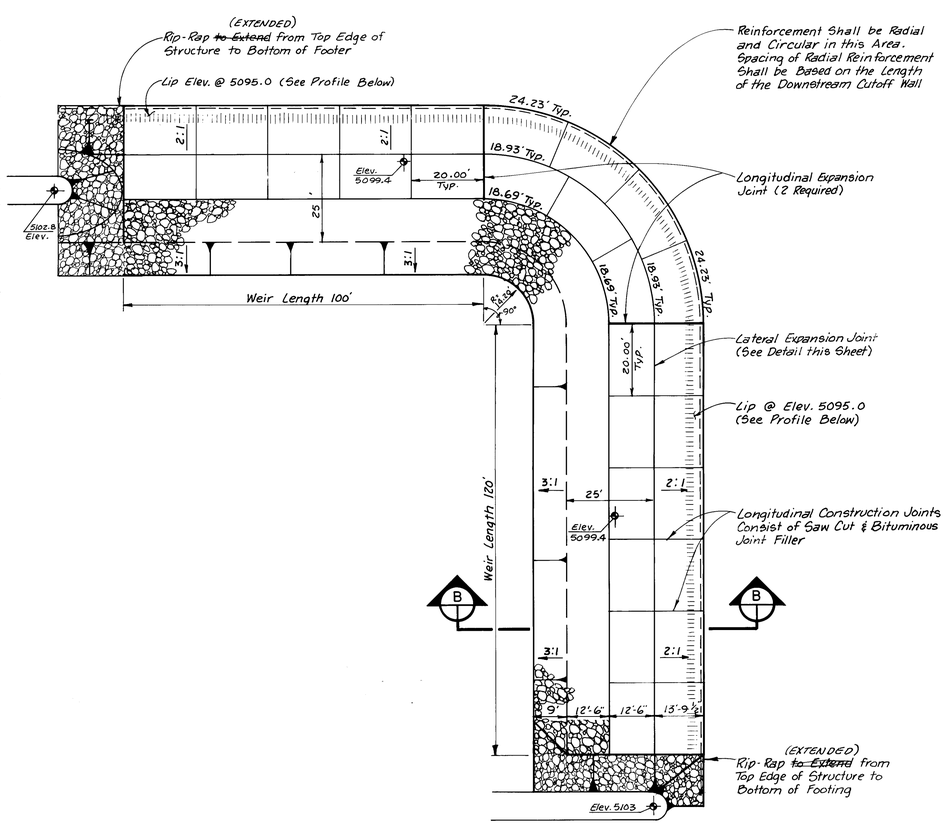
SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

REFERENCES
MAP NO
EST. NO
W.O. NO

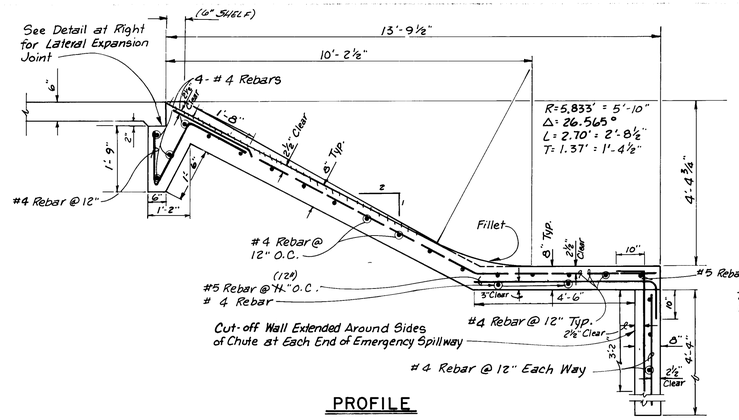
NO.	DATE	REMARKS	BY

REVISIONS

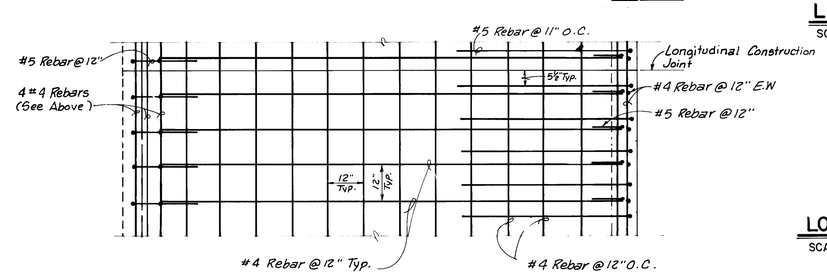
DESIGNED BY DOB	DATE 12-83	
DRAWN BY JCH	DATE 12-83	
CHECKED BY CA	DATE 12-83	



PLAN
SCALE: 1" = 20'

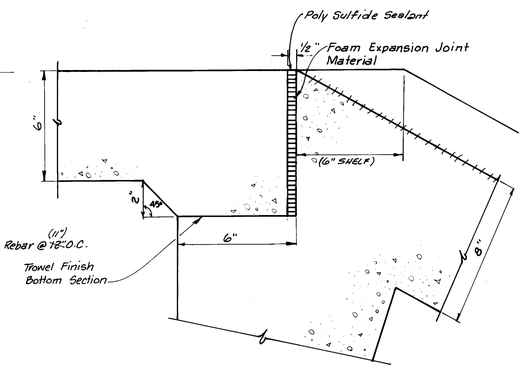


PROFILE

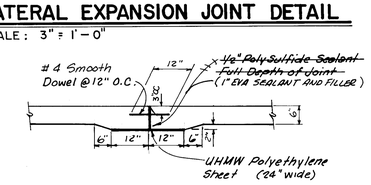


PLAN

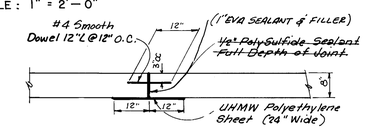
EMERGENCY SPILLWAY CHUTE REINFORCEMENT
SCALE: 1" = 2'-0"



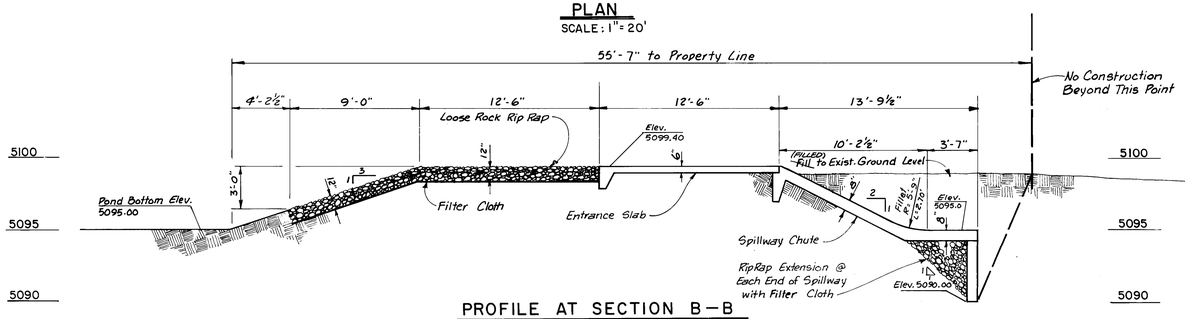
LATERAL EXPANSION JOINT DETAIL
SCALE: 3" = 1'-0"



ENTRANCE SLAB LONGITUDINAL EXPANSION JOINT DETAIL
SCALE: 1" = 2'-0"

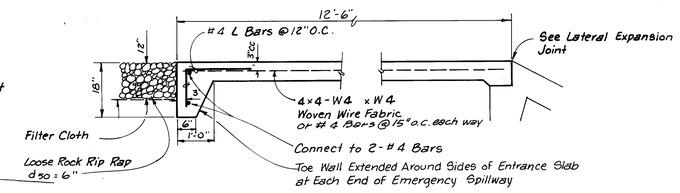


SPILLWAY CHUTE LONGITUDINAL EXPANSION JOINT DETAIL
SCALE: 1" = 2'-0"

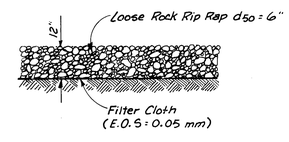


PROFILE AT SECTION B–B
SCALE: 1" = 5' HORZ.
1" = 5' VERT.

EMERGENCY SPILLWAY FOR TEMPORARY RETENTION POND



ENTRANCE SLAB REINFORCEMENT
SCALE: 1" = 2'-0"



TYPICAL RIP RAP DETAIL
NOT TO SCALE

NOTE: Rip Rap ~~Shall be~~ (WAS) Material having Gradation with 50% Size of the Material of 6" Average Least Dimension and No Stones ~~Larger than 9" nor Smaller than 3"~~ (WERE

RECORD DRAWING

APPROVED FOR CONSTRUCTION
C. A. Lucero 1/4/84
CITY ENGINEER DATE

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT

TITLE: SAD-214 UNSER BOULEVARD
TEMPORARY RETENTION POND DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	NA James J.	1/4/84
A.C.E.-Design			Traffic	NA	1/4/84
A.C.E.-Hydrology	Jim Fink	1/4/84	Water	NA James J.	1/4/84

DRAWING NO 1658.
SHEET 18 OF 23

AS BUILT INFORMATION
INITIALS: Brace Const. Co. Inc.
WORK STAKED BY Scanlon & Assoc. 1984
INSPECTED BY
ACCEPTANCE BY
FIELD EDITION BY Scanlon & Assoc. 1984
FINAL INSPECTION BY Scanlon & Assoc. 1984
MICROFILM INFORMATION

BENCH MARKS

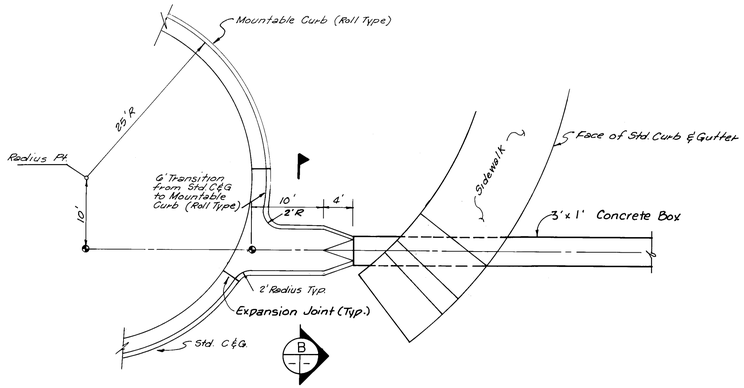
SURVEY INFORMATION
FIELD NOTES BY NO DATE

REFERENCES
MAP NO W.O. NO
EST. NO

NO.	DATE	REMARKS	BY

REVISIONS

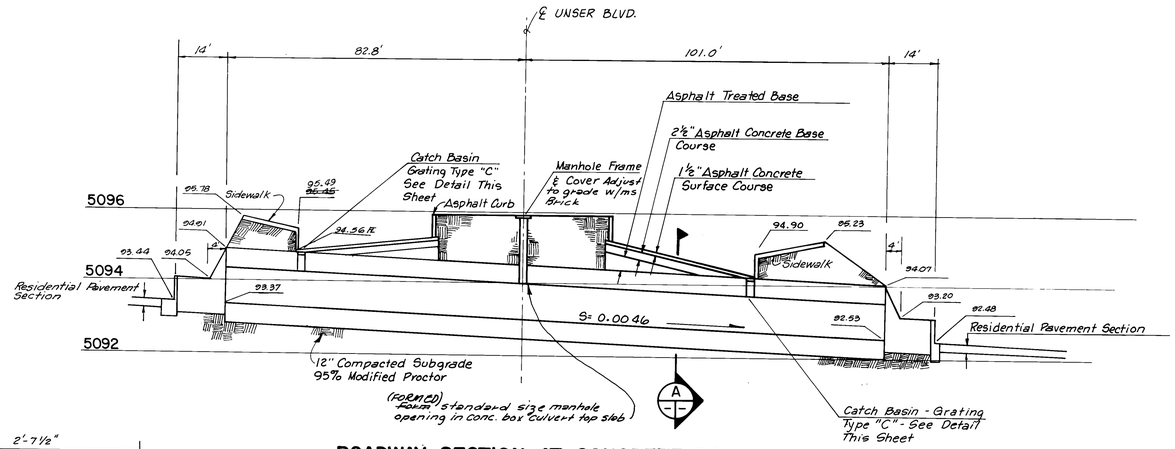
DESIGN
DESIGNED BY DDB DATE 12-83
DRAWN BY SGH DATE 12-83
CHECKED BY CA DATE 12-83



TYPICAL CONCRETE RUNDOWN **

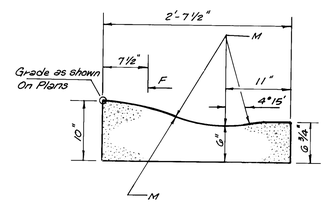
SCALE : 1" = 10'

** Rundown Shown for Central / Unser West side. East side is opposite hand.



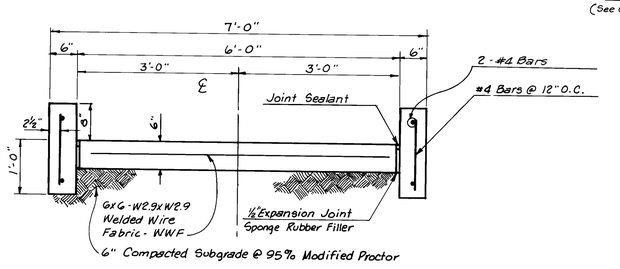
ROADWAY SECTION AT CONCRETE BOX

SCALE : 1" = 20' HORIZONTAL
1" = 2' VERTICAL



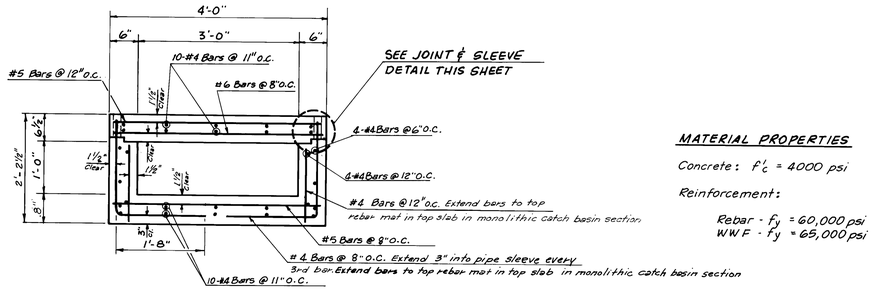
MOUNTABLE CURB ROLL TYPE

(See City Standard Detail Drawing P-8-3)



SECTION B

SCALE : 3/4" = 1'-0"



SECTION A

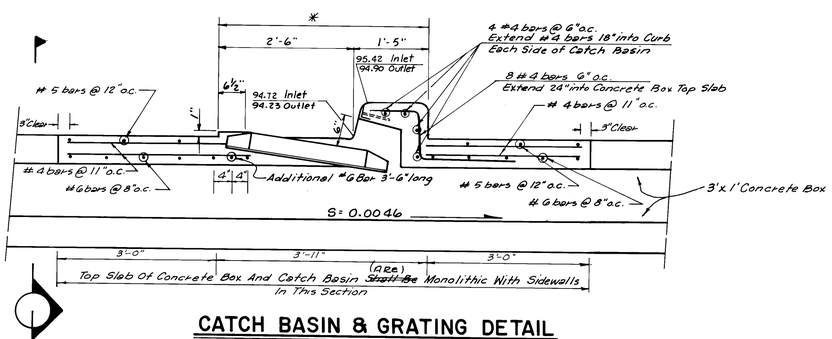
SCALE : 3/4" = 1'-0"

MATERIAL PROPERTIES

Concrete : f'_c = 4000 psi

Reinforcement :

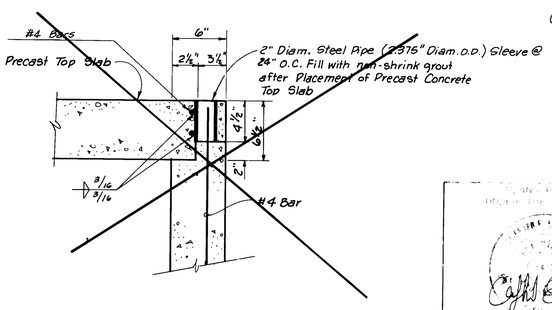
Rebar - f_y = 60,000 psi
WWF - f_y = 65,000 psi



CATCH BASIN & GRATING DETAIL

SCALE: 3/4" = 1'-0"

* Top of inlet dimensions and details including frame, grate and gutter transition ~~shall conform to~~ (CONFORMED) City Standard Detail Drawings K-4.2, K-7.1, and K-8.1.



CONCRETE BOX - JOINT & SLEEVE DETAIL

SCALE: 1-1/2" = 1'-0"

(This detail does not apply to monolithic catch basin section.)

(NOTE: RATHER THAN PRECAST CONCRETE TOP SLAB, CONTRACTOR ELECTED TO POUR TOP SLAB CONCRETE IN PLACE BY FILLING INSIDE OF 1x3 C.B.C. WITH SAND & PLASTIC COVER & PLACING CONCRETE DIRECTLY ON SAND; THEN REMOVED SAND WHEN CONCRETE HAD GAINED SUFFIEAIT STRENGTH. TOP SLAB CONCRETE BONDED TO EXPOSED WALL REBAR & DOWELS)

2.6 | 1658 | 1986

RECORD DRAWING

JOB NO. 82060

APPROVED FOR CONSTRUCTION

CITY ENGINEER — DATE 1/4/84

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT

TITLE: SAD-214 UNSER BOULEVARD
1' X 3' CONCRETE BOX CULVERT

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	NA	1/4/84
A.C.E.-Design			Traffic		1/4/84
A.C.E.-Hydrology		1/4/84	Water	NA	1/4/84

DRAWING NO. 1658 — SHEET 19 OF 23

NO	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	A.O.
			S.G.H.
			C.A.

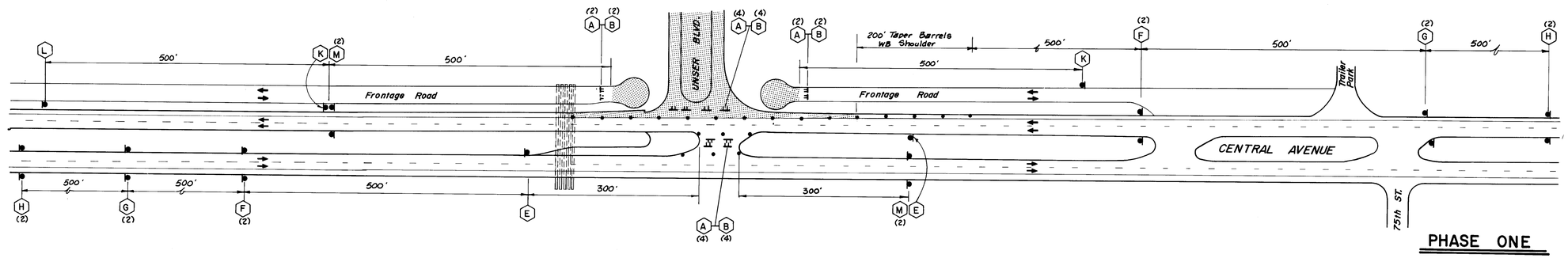
DATE 12-83
12-83
12-83

AS BUILT INFORMATION
Brace Const Co. Inc. 1984
Scanlon & Assoc 1984
Scanlon & Assoc 1984

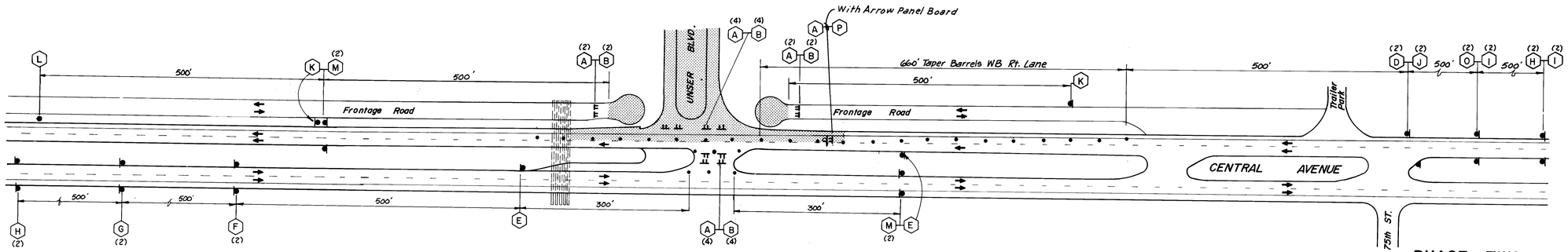
BENCH MARKS

REFERENCES
MAP NO
EST NO

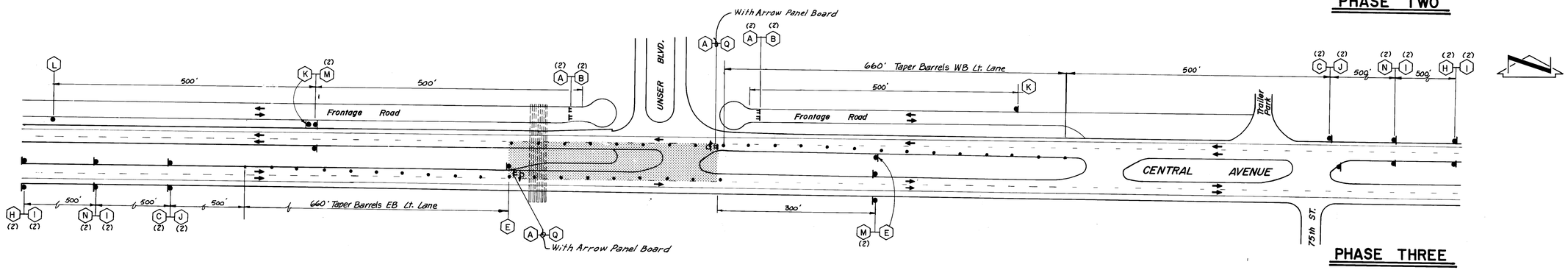
SURVEY INFORMATION
NO. NOTES DATE BY



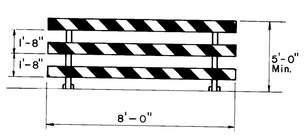
PHASE ONE



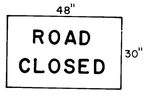
PHASE TWO



PHASE THREE

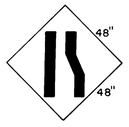


(A) TYPE III BARRICADE (MOVEABLE)

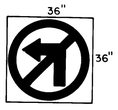


(B) R11-2

(C) W4-2



(D) W4-2

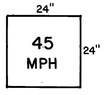


(E) R3-1

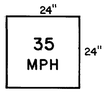
(F) W20-1

(G) W20-1

(H) W20-1



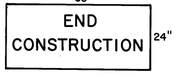
(I) W13-1



(J) W13-1

(K) W20-3

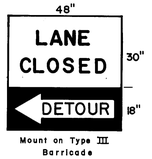
(L) W20-3



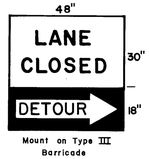
(M) G20-2

(N) W20-5

(O) W20-5



(P) R11-2 w/M4-10L



(Q) R11-2 w/M4-10R

SIGN FACE DETAILS

GEND

REA

LIZATION DEVICES @ 50'
3 (BARRELS or TYPE II BARRICADES)

TYPE III BARRICADE

SIGN

ARROW PANEL BOARD TO CONFORM TO NMSHD PERMIT REQUIREMENTS SHOWN ON SHEET 21.

RECORD DRAWING

PLANS PREPARED UNDER THE DIRECTION OF

CLIFFORD F. HARDIN, N.M. MEXICO, PROFESSIONAL ENGINEER

SCANLON & ASSOCIATES
CONSULTING ENGINEERS
JOB NO. 82060

APPROVED FOR CONSTRUCTION
C.D. Hardin 1/4/84
CITY ENGINEER DATE

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT

TITLE: SAD-214 UNSER BOULEVARD
TRAFFIC CONTROL PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	NA James J.	1/4/84
A.C.E.-Design			Traffic	T.W. Kennedy	1/4/84
A.C.E.-Hydrology		1/4/84	Water	NA James J.	1/4/84

DRAWING NO. 1658

SHEET 20 OF 23

AS BUILT INFORMATION
CONTRACTOR Bruce Const. Co. Inc. DATE 1984
WORK STAKED BY Scanlon & Assoc. DATE 1984
INSPECTOR & ASSISTANT BY DATE
FIELD VERIFICATION BY Scanlon & Assoc. DATE 1984
DRAWINGS CORRECTED BY Scanlon & Assoc. DATE 1984
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
BY DATE
NO

REFERENCES
MAP NO. W.O. NO.
EST NO.

NO.	DATE	REMARKS	BY
		REVISIONS	

		DATE
DESIGNED BY	CWT	12-83
DRAWN BY	SGH	12-83
CHECKED BY	CWT	12-83

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GENERAL NOTES FOR TRAFFIC CONTROL

1. All traffic control devices shall comply with chapter VI of the 1978 edition "Manual for Uniform Traffic Control Devices".
2. The contractor shall prepare and submit to the Project Engineer a detailed detour plan, which is subject to the approval of the City Traffic Engineer, 3 working days in advance of any required lane closures other than those shown on these plans.
3. All signs must be installed before construction begins as directed by the Engineer. The bottom of construction warning signs shall be 7-feet above the sidewalk level.
4. All signs, barricades and/or barrels will be reflectorized. All barrels may have sand or water ballast limited to 100 lbs.
5. All sign locations will be selected in the field and approved by the Project Engineer. Distances may be adjusted for local conditions.
6. All signs will be ground mounted on single or double posts. Existing posts may be used at some locations, with the approval of the Project Engineer. Portable sign supports will be acceptable as an alternate for signs which are in place less than 1 week.
7. All signs will be moved forward as the construction progresses.
8. The contractor shall maintain access to businesses and residences adjacent to the construction area.
9. When barriers are required after dark, all advance warning signs and all barricades shall be equiped with flashing warning lights (type A), except that all channelizing barricades shall have steady burning warning lights (type C).
10. All existing regulatory signs that need to be removed, relocated or reinstalled shall be done by the City of Albuquerque Traffic Engineering Division. The contractor shall notify the Traffic Engineering Division 3 working days in advance of any required work.
11. The contractor shall provide and maintain a safe and adequate means of channeling pedestrian traffic around all work areas throughout the period of construction. All such channelization shall be arranged to prevent pedestrians from having to enter the roadway in order to pass around the work areas.
12. All construction signing shall be black on a reflectorized orange field unless otherwise specified. All construction barricades and channelization devices shall be orange on white, reflectorized, unless otherwise specified.
13. All advance warning signs not directly applicable shall be removed, covered, or turned away from oncoming traffic.
14. A minimum width of 11 feet shall be provided for traffic in one direction.
15. All advance warning signs shall be 48" x 48" minimum.
16. The contractor shall be required to keep the public informed, through the local news media, of construction operations involving street or lane closures.
17. Equipment and materials are not to be stored within the street right-of-way during non-working hours.
18. Excavations must be placed or patched prior to opening to traffic.

SEQUENCE OF CONSTRUCTION

1. Exploratory trenching to locate existing utilities in the intersection of Unser Boulevard and Central Avenue shall be completed prior to beginning any lane closures on Central Avenue.
2. PHASE ONE: Construct Unser Boulevard north of Central Avenue. Median opening on Central Avenue and Frontage Road may be closed to traffic at this time. Construction shall be limited to the north edge of the Central Avenue westbound paved shoulder. Contractor shall maintain two lanes for eastbound and two lanes for westbound Central Avenue traffic at all times.
3. PHASE TWO: As the work progresses, the Contractor may continue his operations southward by closing the right hand westbound lane on Central Avenue. The Contractor shall maintain two lanes for eastbound and one lane for westbound Central Avenue traffic at all times.
4. PHASE THREE: When the paving is completed in the right hand westbound lane on Central Avenue, the Contractor may close the left hand westbound and left hand eastbound lanes on Central Avenue to complete the intersection paving and median construction. The Contractor shall maintain one lane for eastbound and one lane for westbound Central Avenue traffic at all times.
5. PHASE FOUR: The Contractor may complete the installation of the 12" waterline by closing the right hand eastbound lane on Central Avenue when the intersection paving and median construction is completed. The closure of the right hand eastbound lane on Central Avenue shall be accomplished by traffic control similar to that shown on the plans for the Phase Two westbound right hand lane closure.

NEW MEXICO STATE HIGHWAY DEPARTMENT PERMIT REQUIREMENTS *

1. Contractor shall comply with the provisions of NMSHD Permit No. 311602 including the following special provisions:
   - A. All work performed on State Right-of-Way shall meet the Standard Specifications for Road and Bridge Construction (Edition of 1976).
   - B. Traffic Control shall be in accordance with Manual on Uniform Traffic Control Devices for Streets and Highways as shown on plan sheet 20 and will be supplemented with arrow panel boards on lane closures.
   - C. All materials used within the State Right-of-Way shall be tested by a private testing laboratory and copies of the test reports submitted to the District Highway Engineer.
   - D. The State Right-of-Way must be restored to its original condition or better.
   - E. NMSHD District Office will make a final inspection after the project has been completed.

* APPLIES TO CONSTRUCTION ON CENTRAL AVENUE ONLY.

Bruce Const. Co. Inc. 1984
Scanlon & Assoc. 1984
Scanlon & Assoc. 1984
Scanlon & Assoc. 1984

12-83
12-83
12-83

CWT
SGH
CWT

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82060

RECORD DRAWING

MUNICIPAL DEVELOPMENT DEPARTMENT

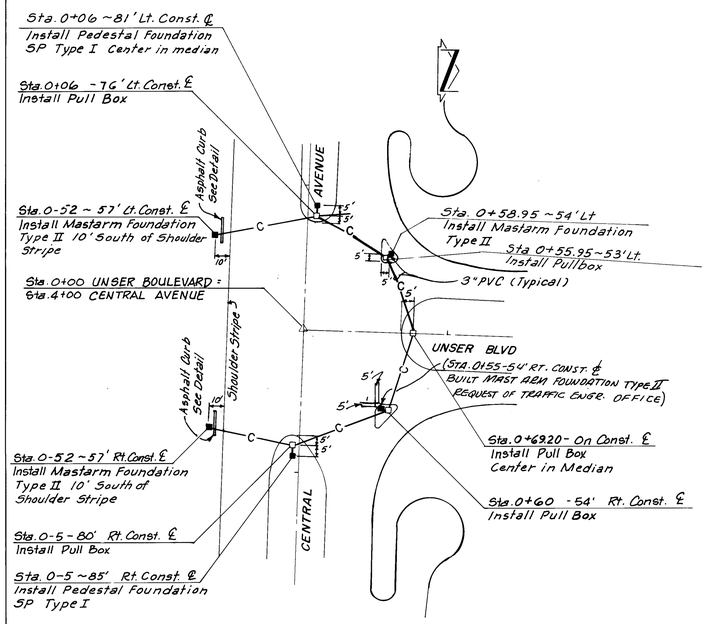
SAD-214 UNSER BOULEVARD
TRAFFIC CONTROL NOTES

NA James J. 1/4/84
TW Kennedy 1/4/84
NA James J. 1/4/84

1/4/84

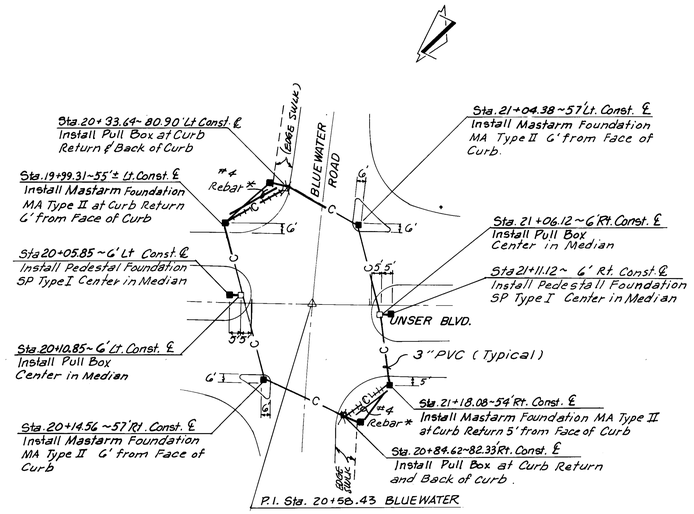
1658

21 23



SIGNAL & PULLBOX LOCATIONS UNSER AT CENTRAL

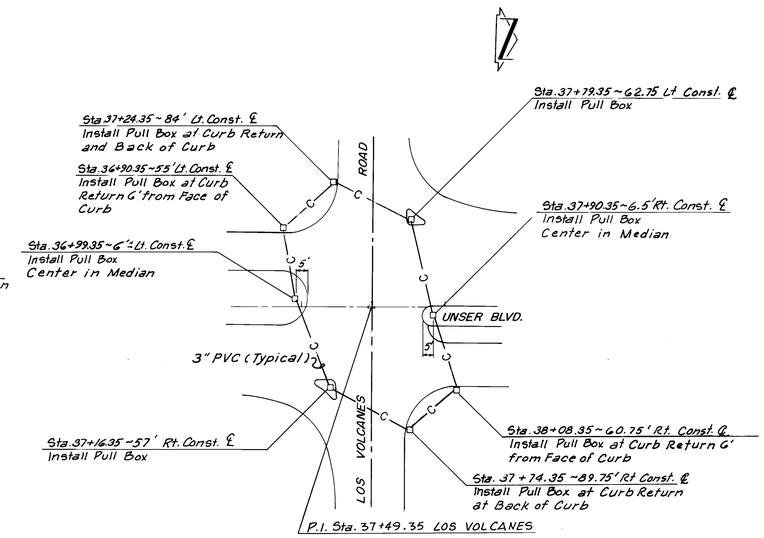
SCALE : 1" = 50'



* Place 1 ~#4 x 20' Rebar adjacent to Conduit at Back of Wheel Chair Ramp for Locating Purposes.

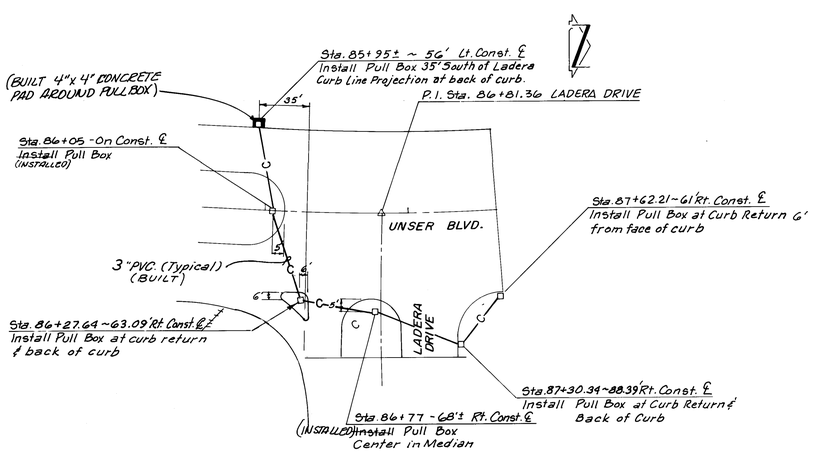
SIGNAL & PULLBOX LOCATIONS UNSER AT BLUEWATER

SCALE : 1" = 50'



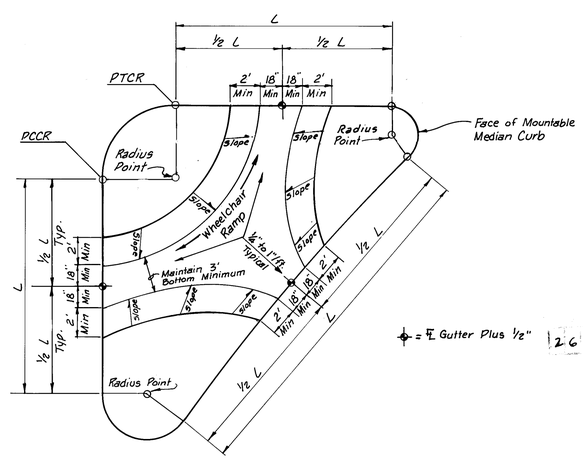
PULLBOX LOCATIONS UNSER AT LOS VOLCANES

SCALE : 1" = 50'



PULLBOX LOCATIONS UNSER AT LADERA DRIVE

SCALE : 1" = 50'



⊕ = ⊥ Gutter Plus ½"

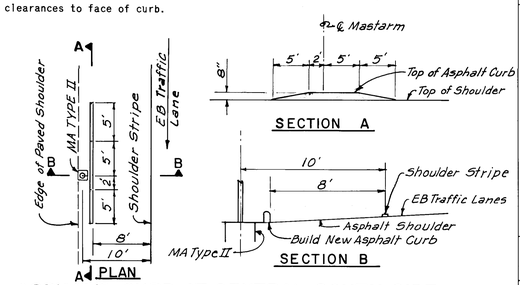
TYPICAL ISLAND WHEELCHAIR RAMP DETAIL

NO SCALE

NOTE: Island Wheelchair Ramp Details ~~Shall~~ Conform to City Standard Drawing P-17. Islands to be surfaced with 4" Concrete Pavement.

NOTES:

1. Contractor shall verify exact locations of pull boxes, pedestal foundations, and mastarm foundations in the field with Traffic Engineering Department.
2. Pedestal Foundations SP Type I shall conform to City Standard Detail Drawing T-5. Mastarm Foundations MA Type II shall conform to City Standard Detail Drawing T-6. Pull Boxes shall conform to City Standard Detail Drawing T-4.
3. Mastarm foundations and pull box locations in traffic islands shall be coordinated with wheel chair ramp construction to provide adequate wheel chair ramps and mastarm clearances to face of curb.



ASPHALT CURB AT CENTRAL SOUTH SIDE

RECORD DRAWING

PLANS PREPARED UNDER THE DIRECTION OF

JOB NO. 82060

APPROVED FOR CONSTRUCTION

CITY ENGINEER — DATE

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT

TITLE: SAD-214 UNSER BOULEVARD PULLBOX LOCATIONS & ISLAND WHEELCHAIR RAMP DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	N.A. James J.	1/4/84
A.C.E.-Design			Traffic	Tom Kennedy	1/4/84
A.C.E.-Hydrology		1/4/84	Water	N.A. James J.	1/4/84

DRAWING NO. 1658

SHEET 22 OF 23

AS BUILT INFORMATION
Brace Const. Co. Inc — 1984
Scanlon & Assoc. — 1984
Scanlon & Assoc. — 1985
Scanlon & Assoc. — 1985
MICRO-FILM INFORMATION

BENCH MARKS

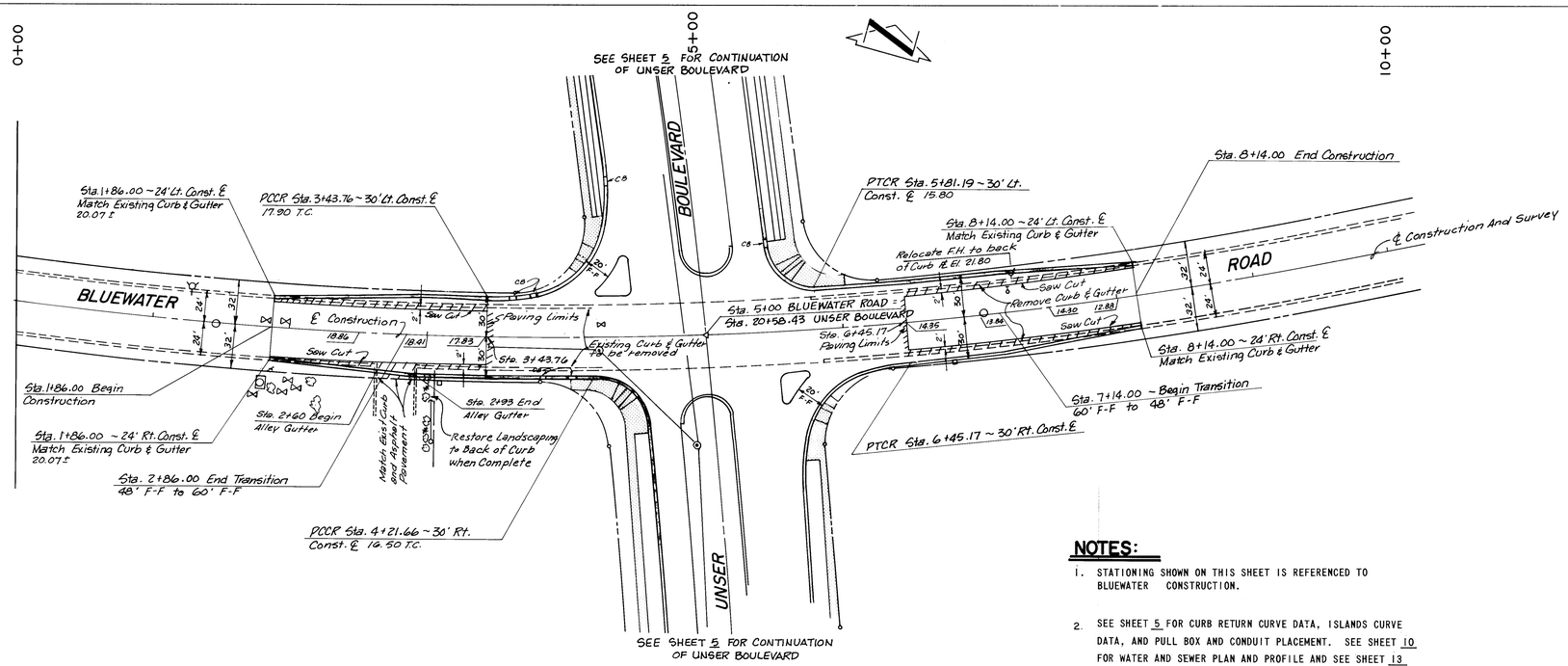
SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

REFERENCES
MAP NO. W.O. NO.
EST. NO.

NO.	DATE	REMARKS	BY

REVISIONS

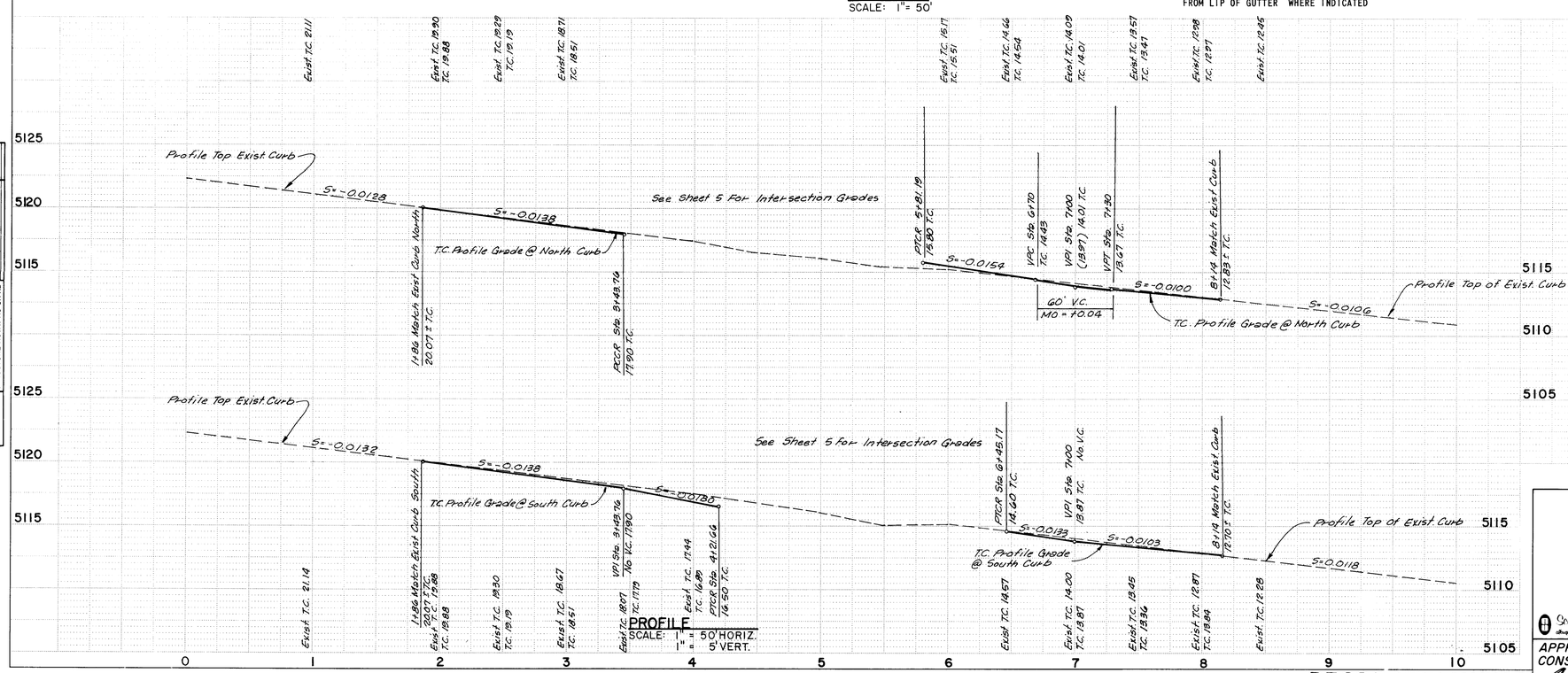
DESIGN		DATE 12-83
DESIGNED BY	A.O.	DATE 12-83
DRAWN BY	SGH	DATE 12-83
CHECKED BY	C.A.	



PLAN
SCALE: 1" = 50'

NOTES:

1. STATIONING SHOWN ON THIS SHEET IS REFERENCED TO BLUEWATER CONSTRUCTION.
2. SEE SHEET 5 FOR CURB RETURN CURVE DATA, ISLANDS CURVE DATA, AND PULL BOX AND CONDUIT PLACEMENT. SEE SHEET 10 FOR WATER AND SEWER PLAN AND PROFILE AND SEE SHEET 13 FOR STORM DRAIN PLAN AND PROFILE.
3. SAW CUT OR BLADE CUT EXISTING ASPHALT PAVEMENT 2' FROM LIP OF GUTTER WHERE INDICATED



PROFILE
SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

RECORD DRAWING

26 1658236

PLAN	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
NOTE BOOK		
NO.		

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
B.M.+ NOTED		
STRUCTURE NOTATNS CHKD		
NOTE BOOK		
NO.		

PLANS PREPARED UNDER THE DIRECTOR OF

Charles W. Trujillo Jr.

Scanlon & Associates, Inc. Engineers — Planners JOB NO. 82060

APPROVED FOR CONSTRUCTION

C. E. Anderson 1/4/84

CITY ENGINEER DATE

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT

TITLE: PAVING DETAILS - BLUEWATER/UNSER

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	NA James J.	1/4/84
A.C.E.-Design			Traffic	T.C. Kennedy	1/4/84
A.C.E.-Hydrology	Jim Fitch	1/4/84	Water	NA James J.	1/4/84

DRAWING NO. 1658

SHEET 23 OF 23

AS BUILT INFORMATION
CONTRACTOR Bruce Const. Co. Inc. DATE 1/84
WORK STAKED BY Scanlon & Assoc DATE 1/84
INSPECTOR'S ACCEPTANCE BY DATE
FIELD VERIFICATION BY Scanlon & Assoc DATE 1/84
DRAWINGS CORRECTED BY Scanlon & Assoc DATE 1/84
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
T&M Gin Gear on North Side of Power Pole 142' Left Sta. 11+42 - Elev. 5104.139
I-40-19 NMSCH Brass Cap 1.4 miles SW of the intersection of I-40 and Coors Road in the median of I-40 Elev. 5151.197

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

REFERENCES
MAP NO. K-10
EST. NO.
W.O. NO.

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY C.W.T. DATE 12-83
DRAWN BY D.H.W./P.G. DATE 12-83
CHECKED BY C.E.A. DATE 12-83