PIÑO ARROYO CORRIDOR IMPROVEMENTS-PHASE I

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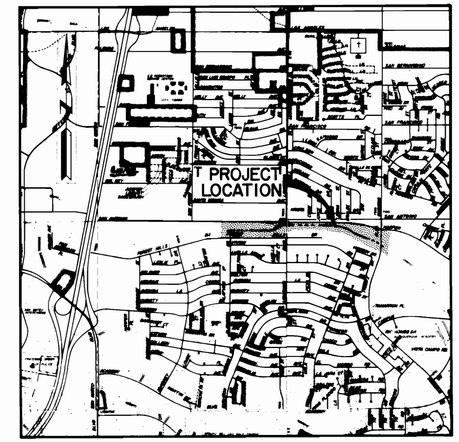
CITY OF ALBUQUERQUE
NEW MEXICO

ALBUQUERQUE NEW MEXICO 1706



VICINITY MAP

GENERAL NOTES:

1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER THIS CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
2. REFERENCES MADE TO STANDARD DRAWINGS REFER TO CITY OF ALBUQUERQUE STANDARD DRAWINGS.
3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR WILL NOTIFY THE ENGINEER OR SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIUM AMOUNT OF DELAY.
5. ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
6. BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
7. TACK COAT REQUIREMENTS SHALL BE DETERMINED BY ENGINEER.
8. WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED AS SHOWN.
9. CONTRACTOR SHALL PROVIDE 12" SUBGRADE PREPARATION UNDER ALL NEW PAVEMENT, CURBS & GUTTERS, VALLEY GUTTERS, AND CONCRETE FILLETS.
10. WHEN ABUTTING NEW PAVEMENT TO EXISTING, CUT BACK EXISTING PAVEMENT TO A NEAT STRAIGHT LINE AS REQUIRED TO REMOVE ANY BROKEN OR CRACKED PAVEMENT, AND MATCH NEW TO EXISTING. NO SEPARATE PAYMENT SHALL BE MADE FOR SUCH CUTTING OF EXISTING PAVEMENT BUT SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. CUTTING OF PAVEMENT SHALL BE IN CONFORMANCE WITH THE SPECIFICATIONS.
11. WHERE REMOVAL OF EXISTING CURB & GUTTER IS REQUIRED, SUCH REMOVAL SHALL BE MADE BACK TO THE NEAREST JOINT BEYOND THE REMOVAL REQUIRED.
12. CURB & GUTTER SHOWN AS EXISTING AND NOT TO BE REMOVED UNDER THE CONTRACT WHICH IS DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
13. WHEN CONSTRUCTION UNDER THIS PROJECT CONNECTS TO EXISTING IMPROVEMENTS, THE CONTRACTOR SHALL PROVIDE AN EASY RIDING CONNECTION.
14. MATCH FLOWLINES OF GUTTER WHEN CONNECTING NEW CURB & GUTTER TO EXISTING.
15. ALL WATER VALVE BOXES AND SEWER MANHOLES IN THE CONSTRUCTION AREA ARE TO BE ADJUSTED TO FINISH GRADE UNDER THE CONTRACT.

(SEE SHEET 2 FOR CONTINUATION OF GENERAL NOTES)

26 21510187

APPROVAL OF AS BUILT DRAWING
CHIEF INSPECTOR ENGINEER
Russell D. Sasher
DATE 12-15-87

John A. Andrews
RECORD DRAWING

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

APPROVAL OF REVISIONS

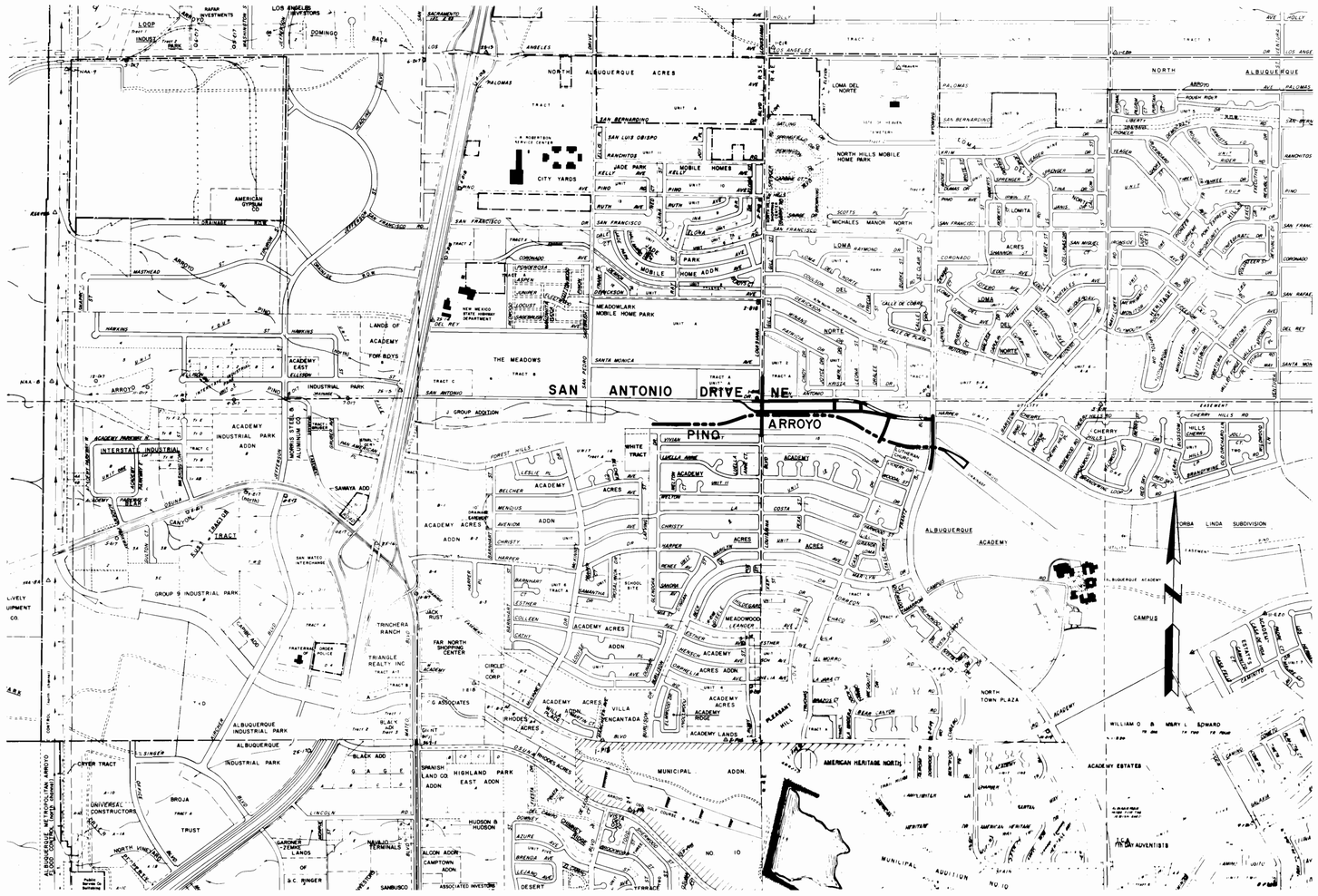
REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO No. 3780 JOHN A. ANDREWS

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

2151

APPROVED FOR CONSTRUCTION
Ross Selvia 11/21/86
CITY ENGINEER DATE

SHEET 1 OF 34



LAYOUT PLAN

SCALE: 1"=1000'±

GENERAL NOTES (CONTINUED)

16. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL OBJECTIONABLE MATERIAL FROM THE CONSTRUCTION SITE. A DISPOSAL SITE FOR ALL REMOVAL ITEMS SHALL BE OBTAINED BY THE CONTRACTOR. THE SITE SHALL BE IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE CITY ENGINEERING DEPARTMENT. ALL COSTS INCURRED IN OBTAINING AN ACCEPTABLE SITE AND HAUL THERETO SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION OF THE PROJECT.

17. ALL PERMANENT PAVEMENT MARKING AND TRAFFIC SIGNING WILL BE PERFORMED BY THE CITY OF ALBUQUERQUE, TRAFFIC ENGINEERING DEPARTMENT.

18. CONSTRUCTION SIGNING:

    A. ALL BARRICADES AND SIGNING SHALL CONFORM TO APPLICABLE SECTIONS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), U.S. DEPARTMENT OF TRANSPORTATION, 1978 EDITION.

    B. CONTRACTOR SHALL PREPARE A CONSTRUCTION SIGNING PLAN AND OBTAIN APPROVAL OF SUCH PLAN FROM THE CITY OF ALBUQUERQUE, TRAFFIC ENGINEERING DEPARTMENT, PRIOR TO BEGINNING ANY CONSTRUCTION WORK ON OR ADJACENT TO EXISTING STREETS.

    C. ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A MOUNTED HEIGHT OF SEVEN (7) FEET.

    D. CONTRACTOR SHALL MAINTAIN ALL BARRICADES AND SIGNING AT ALL TIMES. THE CONTRACTOR SHALL VERIFY THE PROPER LOCATION OF ALL BARRICADES AT THE END AND BEGINNING OF EACH DAY.

19. REINFORCED CONCRETE STRUCTURES SHALL HAVE REINFORCING STEEL CONTINUOUS AT ALL CORNERS.

20. DOWELS SHALL BE PROVIDED AT ALL CONNECTIONS OF REINFORCED CONCRETE CONSTRUCTION.

21. ALL EXPOSED CONCRETE SURFACES, TO A MINIMUM OF 6 INCHES BELOW FINISHED GRADE, SHALL BE FINISHED WITH "THOROSEAL", AS PER NMSHD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, PARAGRAPH 509.037, TYPE I.

AS BUILT INFORMATION

CONTRACTOR Moore & Cowart 7/87
STAKED BY A.A.F.R. DATE 10/87
INSPECTOR'S ACCEPTANCE BY City DATE 10/87
FIELD VERIFICATION BY City & A.A.F.R. DATE 10/87
CORRECTED BY A.A.F.R. DATE 10/87
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

ACS STA "12-E18 1978" ELEVATION 5337.039
ACS BRASS TABLET SET ON CONCRETE POST FLUSH W/GROUND LOCATED 41 FEET SOUTH OF THE CENTERLINE OF SAN ANTONIO DRIVE AND 34 FEET WEST OF THE CENTERLINE OF LOUISIANA BOULEVARD

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO No. 2060 JOHN A. ANDREWS

ANDREWS, ASBURY & ROBERT, INC.
CONSULTING ENGINEERS N.M. REG. 79-158
ALBUQUERQUE

REVISIONS

NO.	DATE	REMARKS	BY

DESIGN

DESIGNED BY DATE
DRAWN BY DATE
CHECKED BY DATE

John A. Andrews
RECORD DRAWING
26 21510287

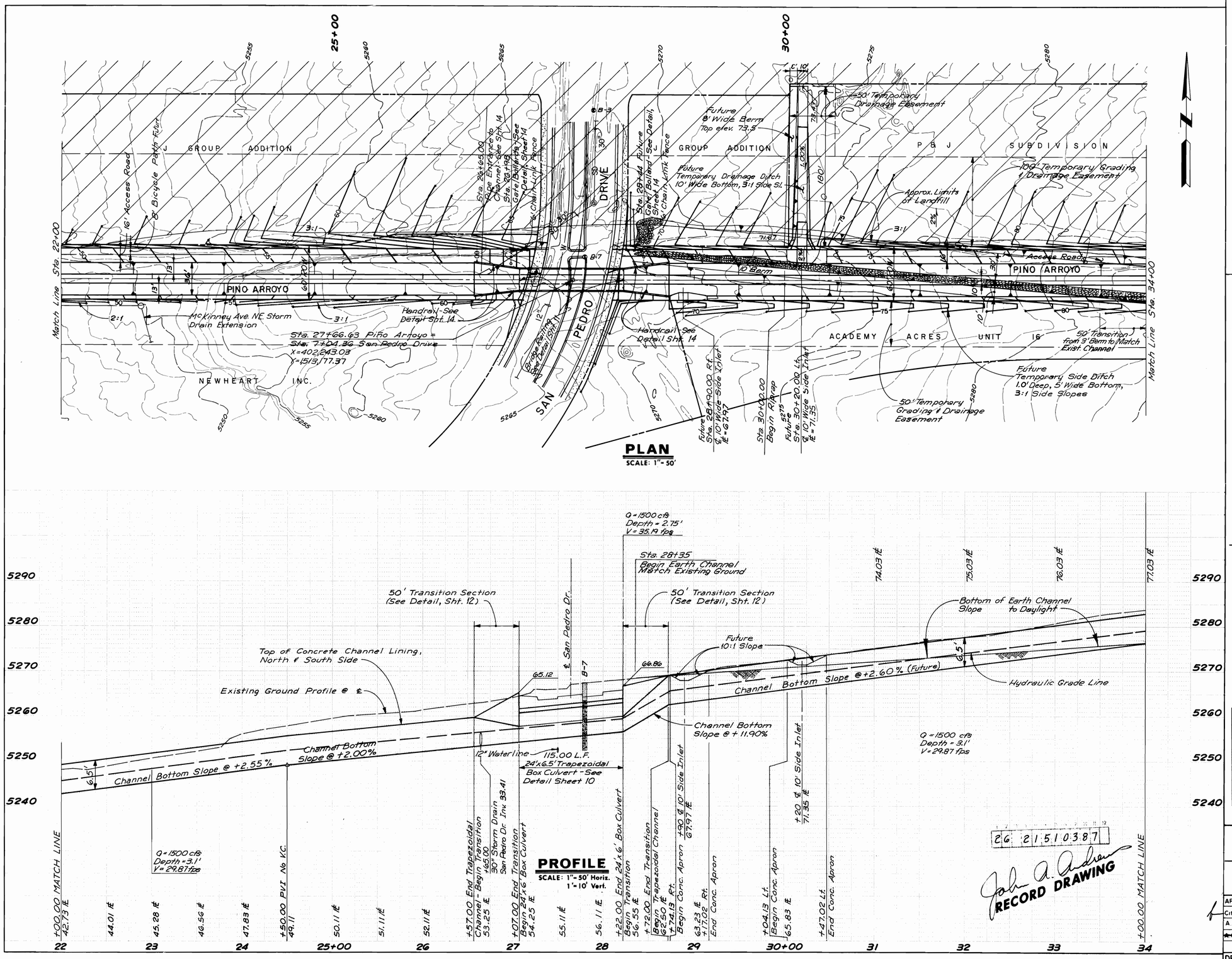
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

PINO ARROYO CORRIDOR IMPROVEMENTS

LAYOUT PLAN

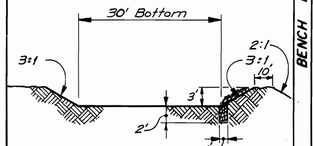
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	[illegible]	1/20/86	Liquid Waste	N/A B/R	1-31-86
A.C.E.-Design	[illegible]	1/31/86	Traffic	D.A. Pombo	1-31-86
~~A.C.E.~~ -Hydrology	K.K. Goyal	1-31-86	Water	N/A - B/R	1-31-86

DRAWING NO.	MAP NO.	SHEET	OF
2151	E-18, E-19	2	34



NOTES

1. LIMITS OF LANDFILL INDICATED ON THESE PLANS ARE APPROXIMATE ONLY. CONTRACTOR SHALL, EXCAVATE ALL LANDFILL MATERIAL OUTSIDE THE LIMITS OF EXCAVATION SHOWN ON THE TYPICAL SECTIONS, WHICH IN THE OPINION OF THE ENGINEER THREATENS THE INTEGRITY OF THE CHANNEL. SUCH EXCESS EXCAVATION SHALL BE BACKFILLED WITH SUITABLE MATERIAL COMPACTED TO 90% MODIFIED DENSITY. EXCESS LANDFILL EXCAVATION WILL BE MEASURED FOR PAYMENT BY THE CUBIC YARD WHICH PAYMENT SHALL INCLUDE BACKFILLING & HAULING LANDFILL MATERIAL TO DISPOSAL.
2. ALL EXCAVATED LANDFILL, WHETHER WITHIN THE NORMAL LIMITS OF EXCAVATION OR WITHOUT AS DESCRIBED IN NOTE 1, SHALL BE HAULED TO A SUITABLE DISPOSAL SITE IN COMPLIANCE WITH ALL STATE & LOCAL REGULATIONS.
3. ALL FLOWS, FLOW DEPTH, VELOCITIES & HYDRAULIC GRADIENTS SHOWN ON THE PROFILES ARE BASED UPON 100 YEAR FLOW CONDITIONS.



EARTH CHANNEL SECTION

NO SCALE

LEGEND

- Approximate Location of Sanitary Landfill
- Property Line
- 5215 Existing Ground Contour
- 05 Finish Grade Contour
- B-5 Soil Boring Location & Number
- Street Crown Transition

SOIL BORINGS LEGEND

FINE-GRAINED SOIL

MORE THAN 50% SMALLER THAN 200 SIEVE SIZE

Symbol	Type	DESCRIPTION	MAJOR DIVISIONS
	ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY	SILTS AND CLAYS Liquid limit less than 50
	CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS	
	OL	ORGANIC SILTS AND ORGANIC SILT-CLAYS OF LOW PLASTICITY	
	MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SANDY OR SILTY SOILS, PLASTIC SILTS	SILTS AND CLAYS Liquid limit greater than 50
	CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS	
	OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS	
	Pt	PEAT AND OTHER HIGHLY ORGANIC SOILS	

COARSE-GRAINED SOIL

MORE THAN 50% LARGER THAN 200 SIEVE SIZE

Symbol	Type	DESCRIPTION	MAJOR DIVISIONS
	GW	WELL GRADED GRAVELS OR GRAVEL SAND MIXTURES LESS THAN 5% 200 FINES	GRAVELS More than half of coarse fraction is larger than No. 4 sieve size
	GP	POORLY GRADED GRAVELS OR GRAVEL SAND MIXTURES LESS THAN 5% 200 FINES	
	GM	SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES MORE THAN 12% 200 FINES	
	GC	CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES MORE THAN 12% 200 FINES	
	SW	WELL GRADED SANDS OR GRAVELLY SANDS LESS THAN 5% 200 FINES	SANDS More than half of coarse fraction is smaller than No. 4 sieve size
	SP	POORLY GRADED SANDS OR GRAVELLY SANDS LESS THAN 5% 200 FINES	
	SM	SILTY SANDS, SAND-SILT MIXTURES MORE THAN 12% 200 FINES	
	SC	CLAYEY SANDS, SAND-CLAY MIXTURES MORE THAN 12% 200 FINES	
		LANDFILL	

NOTE – Soils with 5 to 12 percent minus 200 fines should be classified with dual symbols

AS BUILT INFORMATION

CONTRACTOR Moore & Cowart 1/87–
WORK STAKED BY A.A.R.R. DATE 10/87
ACCEPTANCE BY City DATE 10/87
FIELD VERIFICATION BY City A.A.R.R. DATE 10/87
DRAWINGS CORRECTED BY A.A.R.R. DATE 10/87
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS

ACS STA "12-E18 1978" ELEVATION 5337.039
ACS BRASS TABLET SET ON CONCRETE POST FLUSH W/GROUND LOCATED 41 FEET SOUTH OF THE CENTERLINE OF SAN ANTONIO DRIVE AND 34 FEET WEST OF THE CENTERLINE OF LOUISIANA BOULEVARD

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

PROFESSIONAL ENGINEER STATE OF NEW MEXICO No. 8860 JOHN A. ANDREWS REGISTERED

ANDREWS, ASBURY & ROBERT, INC. CONSULTING ENGINEERS 79-198 ALBUQUERQUE NEW MEXICO

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN

DESIGNED BY DATE
DRAWN BY DATE
CHECKED BY DATE

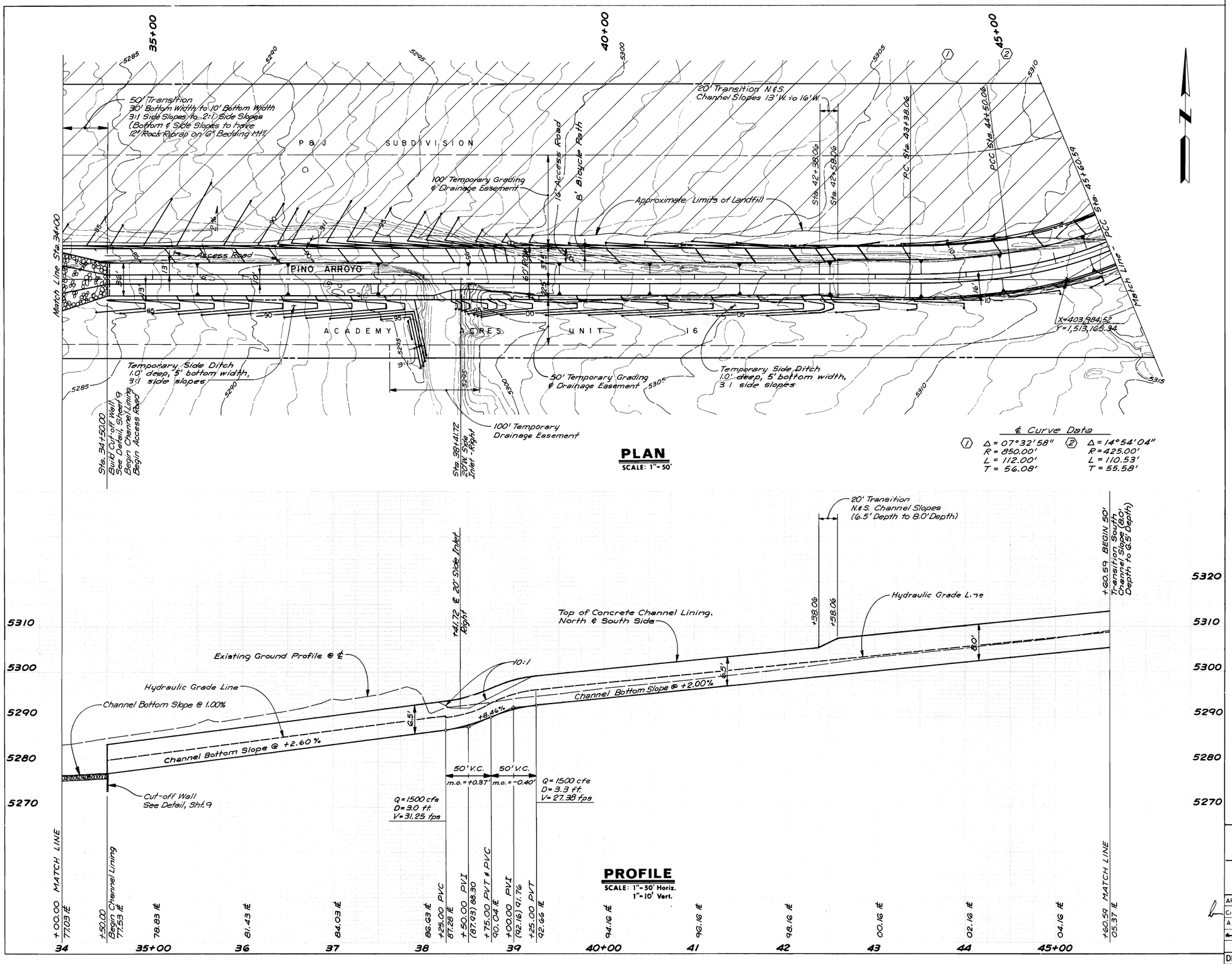
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

PINO ARROYO CORRIDOR IMPROVEMENTS

ARROYO CHANNELIZATION
PLAN & PROFILE – STA. 30+40 TO STA. 34+00

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	[illegible]	11/20/86	Liquid Waste	[illegible]	1-31-86
A C E - Design	[illegible]	11/21/86	Traffic	D.A. Parks	1-31-86
~~A C E~~ - Hydrology	K.R. Loyal	1-31-86	Water	[illegible]	1-31-86

DRAWING NO.	MAP NO.	SHEET	OF
2151	E-18, E-19	3	34



AS BUILT INFORMATION

CONTRACTOR Moore & Cowart 1187-
WORK STAKED BY A.A.R. DATE 10/87
INSPECTOR'S ACCEPTANCE BY City DATE 10/87
FIELD VERIFICATION BY City & A.A.R. DATE 10/87
DRAWINGS CORRECTED BY A.A.R. DATE 10/87
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS

ACS STA "12-E18 1978" ELEVATION 5337.039
ACS BRASS TABLET SET ON CONCRETE POST FLUSH W/GROUND LOCATED 41 FEET SOUTH OF THE CENTERLINE OF SAN ANTONIO DRIVE AND 34 FEET WEST OF THE CENTERLINE OF LOUISIANA BOULEVARD

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO JOHN A. HIGGINBOTHAM 6880

ANDREWS, ASBURY & HOBERT, INC.
CONSULTING ENGINEERS
ALBUQUERQUE NEW MEXICO 78-138

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN

DESIGNED BY DATE
DRAWN BY DATE
CHECKED BY DATE

26 21510487

John A. Andrews
RECORD DRAWING

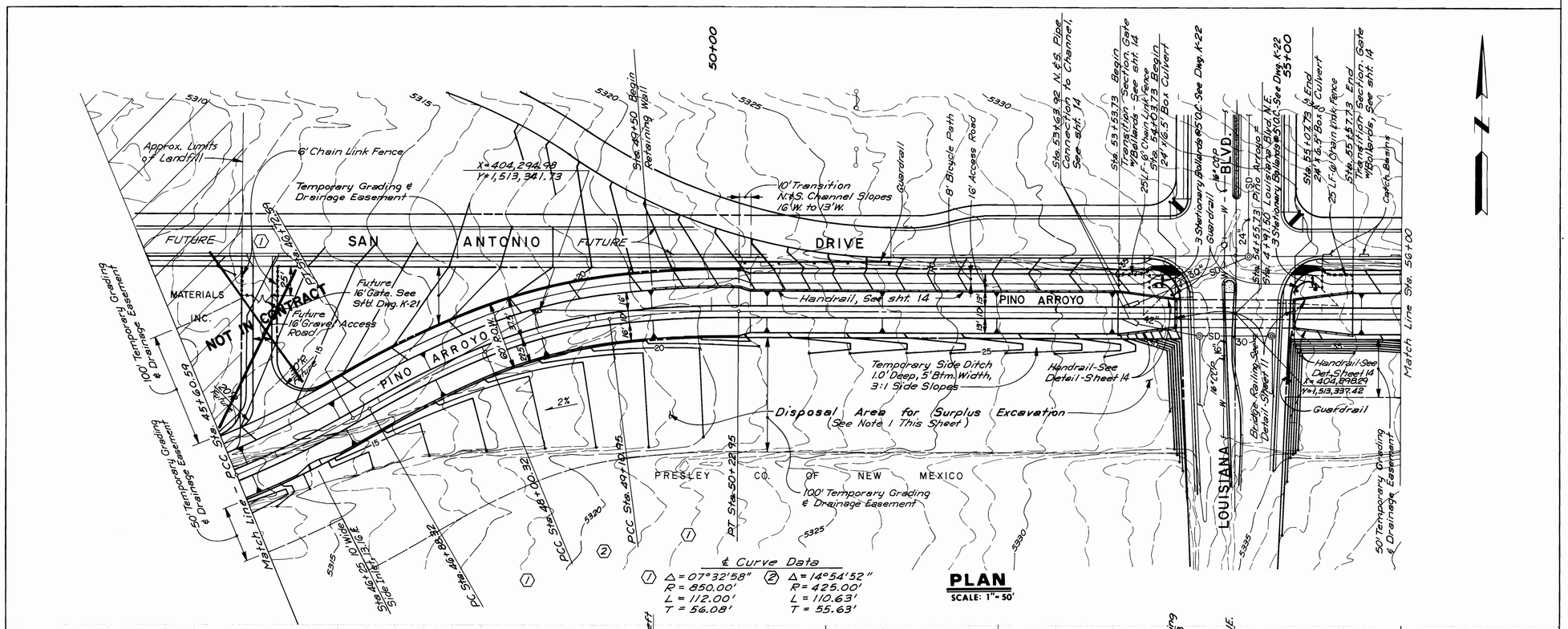
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

PINO ARROYO CORRIDOR IMPROVEMENTS

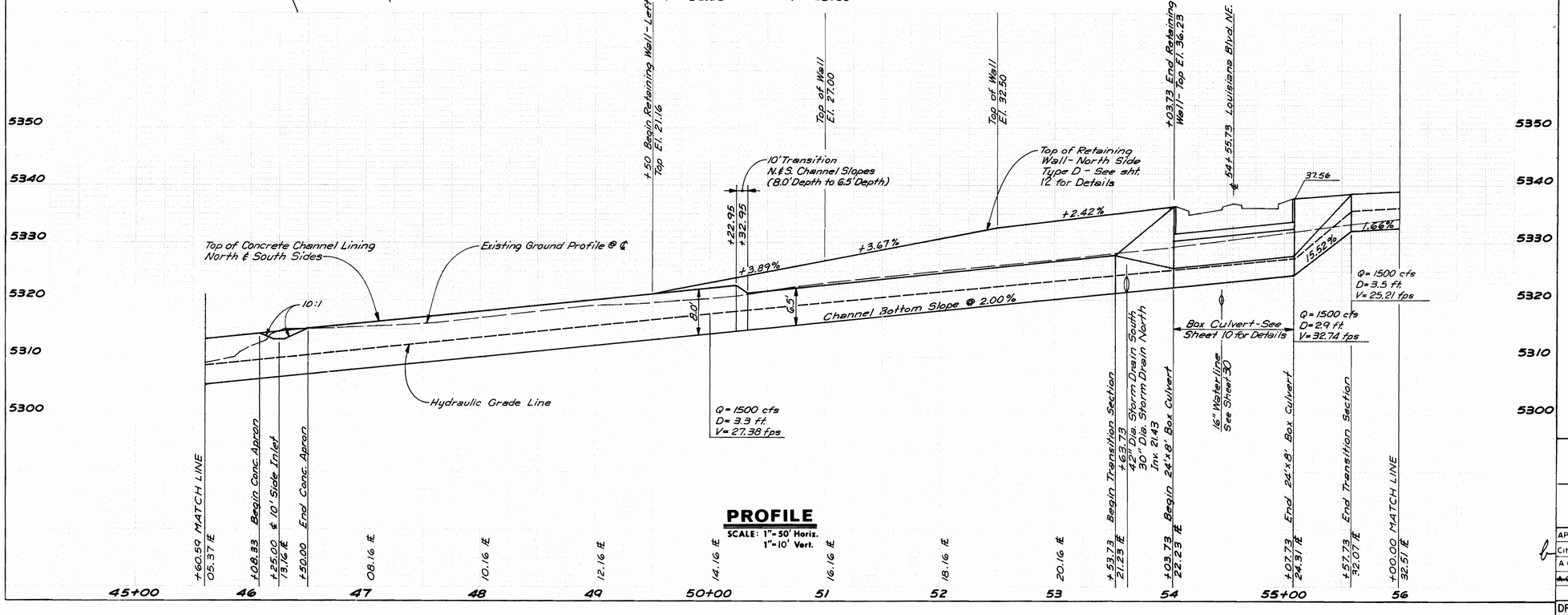
ARROYO CHANNELIZATION
PLAN & PROFILE – STA. 34+00 TO STA. 45+00

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	[illegible]	11/20/86	Liquid Waste	N/A BRyd	1-31-86
A.C.E. - Design	[illegible]	11/3/86	Traffic	N/A DAP	1-31-86
~~A.C.E.~~ - Hydrology	R.R. Loyal	1-31-86	Water	N/A BRyd	1-31-86

DRAWING NO.	MAP NO.	SHEET	OF
2151	E-18, E-19	4	34



PLAN
SCALE: 1" = 50'



PROFILE
SCALE: 1" = 50' Horiz.
1" = 10' Vert.

NOTES

1. SURPLUS EXCAVATION SHALL BE NEATLY PLACED, GRADED TO DRAIN AND COMPACTED TO 90% ASTM D-1557. RANDOM PLACEMENT WILL NOT BE ACCEPTED.
2. SEE SHEET 28 FOR STORM DRAIN & CATCH BASINS.
3. SEE SHEET 30 FOR WATERLINE.

AS BUILT INFORMATION
CONTRACTOR Moore & Cowart
WORK STAKED BY A.A.R. 1187-
INSPECTED BY DATE 10/87
ACCEPTANCE BY CITY DATE 10/87
FIELD VERIFICATION BY CITY & A.A.R. DATE 10/87
DRAWINGS CORRECTED BY A.A.R. DATE 10/87
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
ACS STA. "12-E18 1978" ELEVATION 5337.039
ACS BRASS TABLET SET ON CONCRETE POST FLUSH W/GROUND LOCATED 41 FEET SOUTH OF THE CENTERLINE OF SAN ANTONIO DRIVE AND 34 FEET WEST OF THE CENTERLINE OF LOUISIANA BOULEVARD

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO JOHN A. ANDREWS 1960
ANDREWS, ASBURY & ROBERT, INC.
CONSULTING ENGINEERS
ALBUQUERQUE NEW MEXICO 78-158

NO.	DATE	REMARKS	BY

REVISIONS

DESIGNED BY DATE
DRAWN BY DATE
CHECKED BY DATE

John A. Andrews
RECORD DRAWING
26 21510587

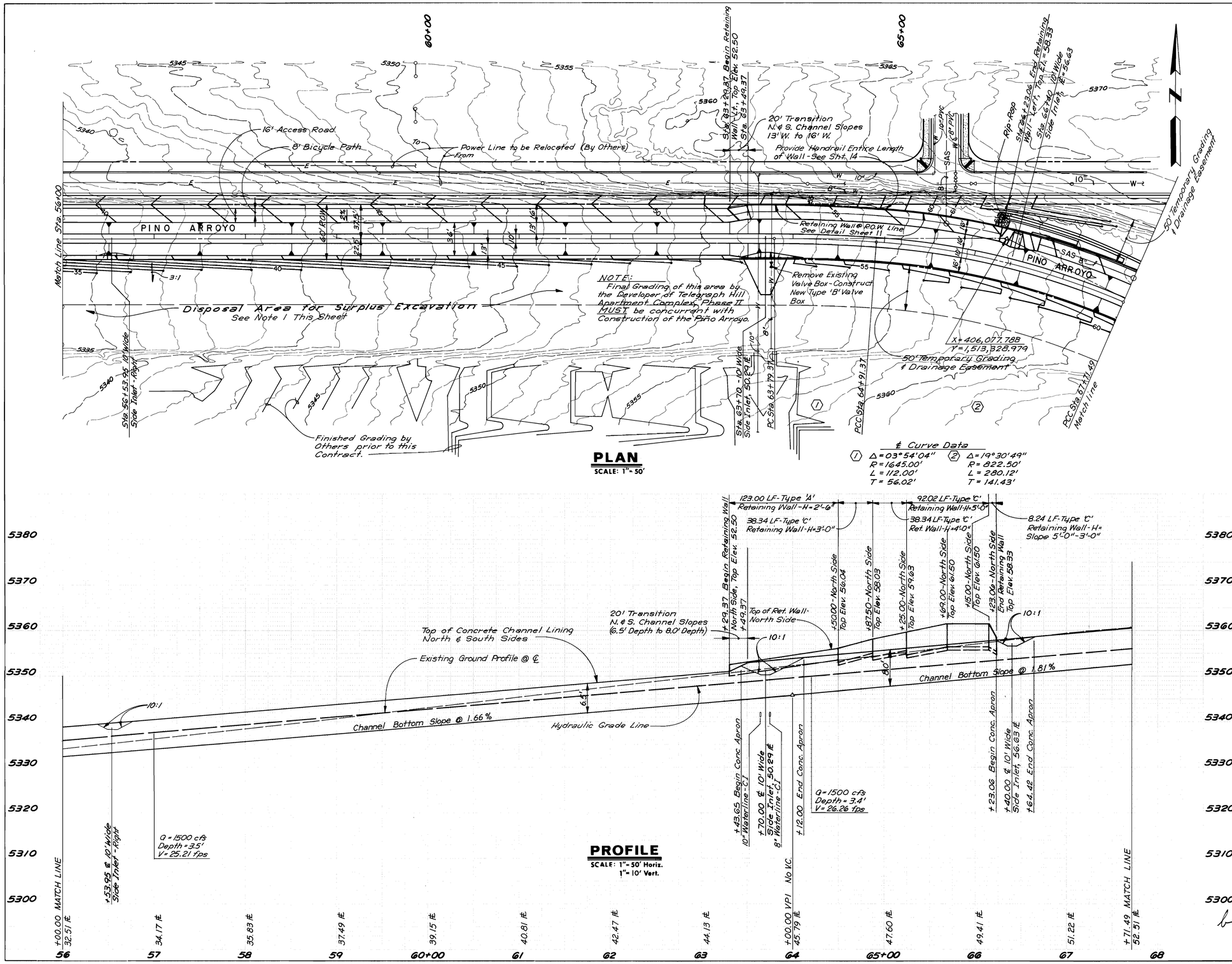
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

PINO ARROYO CORRIDOR IMPROVEMENTS

ARROYO CHANNELIZATION
PLAN & PROFILE – STA. 45+00 TO STA. 56+00

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	[illegible]	11/24/86	Liquid Waste	[illegible]	1-8-86
A C E - Design	[illegible]	1/31/86	Traffic	[illegible]	1-31-86
~~A C E~~ - Hydrology	[illegible]	1-31-86	Water	[illegible]	1-31-86

DRAWING NO.	MAP NO.	SHEET	OF
2151	E-18, E-19	5	34



NOTES

1. SURPLUS EXCAVATION SHALL BE NEATLY PLACED, GRADED TO DRAIN AND COMPACTED TO 90% ASTM D-1557. RANDOM PLACEMENT WILL NOT BE ACCEPTED.

~~2. SEE SHEET 43 FOR SANITARY SEWER LINE.~~

~~3. SEE SHEET 45 FOR WATERLINE.~~

AS BUILT INFORMATION

CONTRACTOR Moore & Conant 1187-
WORK STAKED BY A.A.K.R. DATE 10/87
FINAL INSPECTION BY City DATE 10/87
ACCEPTANCE BY City DATE 10/87
FIELD VERIFICATION BY City, A.A.K.R. DATE 10/87
DRAWINGS CORRECTED BY A.A.K.R. DATE 10/87
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS

ACS STA "12-E18 1978" ELEVATION 5337.039
ACS BRASS TABLET SET ON CONCRETE POST FLUSH W/GROUND
LOCATED 41 FEET SOUTH OF THE CENTERLINE OF SAN ANTONIO
DRIVE AND 34 FEET WEST OF THE CENTERLINE OF LOUISIANA
BOULEVARD

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO JOHN A. ANDREWS 3960

ANDREWS, ASBURY & ROBERT, INC. CONSULTING ENGINEERS ALBUQUERQUE N.M. 78-138

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN

DESIGNED BY DATE
DRAWN BY DATE
CHECKED BY DATE

John A. Andrews
RECORD DRAWING
26 21510687

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

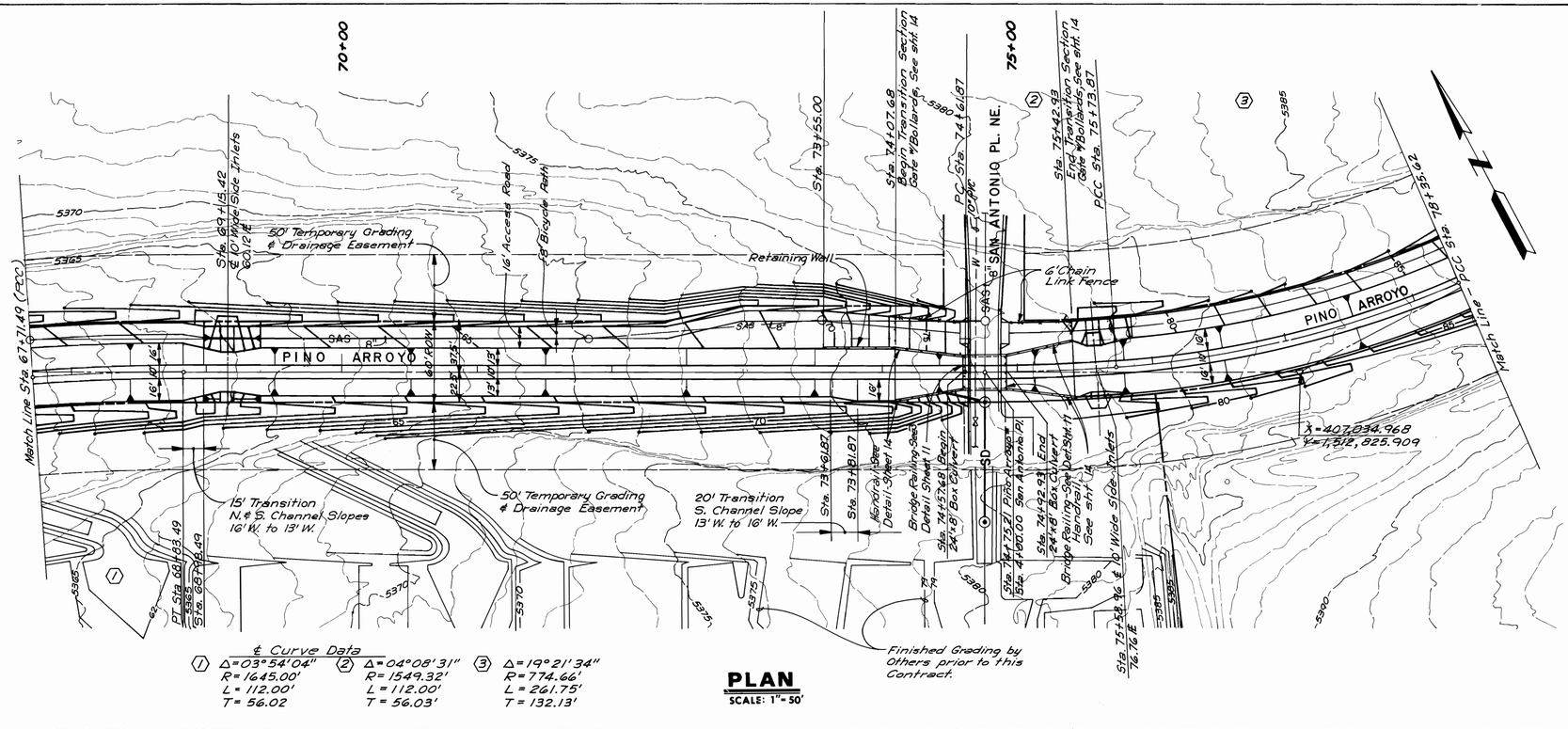
PINO ARROYO CORRIDOR IMPROVEMENTS

ARROYO CHANNELIZATION

PLAN & PROFILE - STA. 56+00 TO STA. 67+71.49

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	[illegible]	11/20/86	Liquid Waste	B. Rogal	1-31-86
A.C.E.-Design	[illegible]	1/31/86	Traffic	D. A. Fields	1-31-86
~~A.C.E.~~-Hydrology	R. W. Cogal	1-31-86	Water	B. Rogal	1-31-86

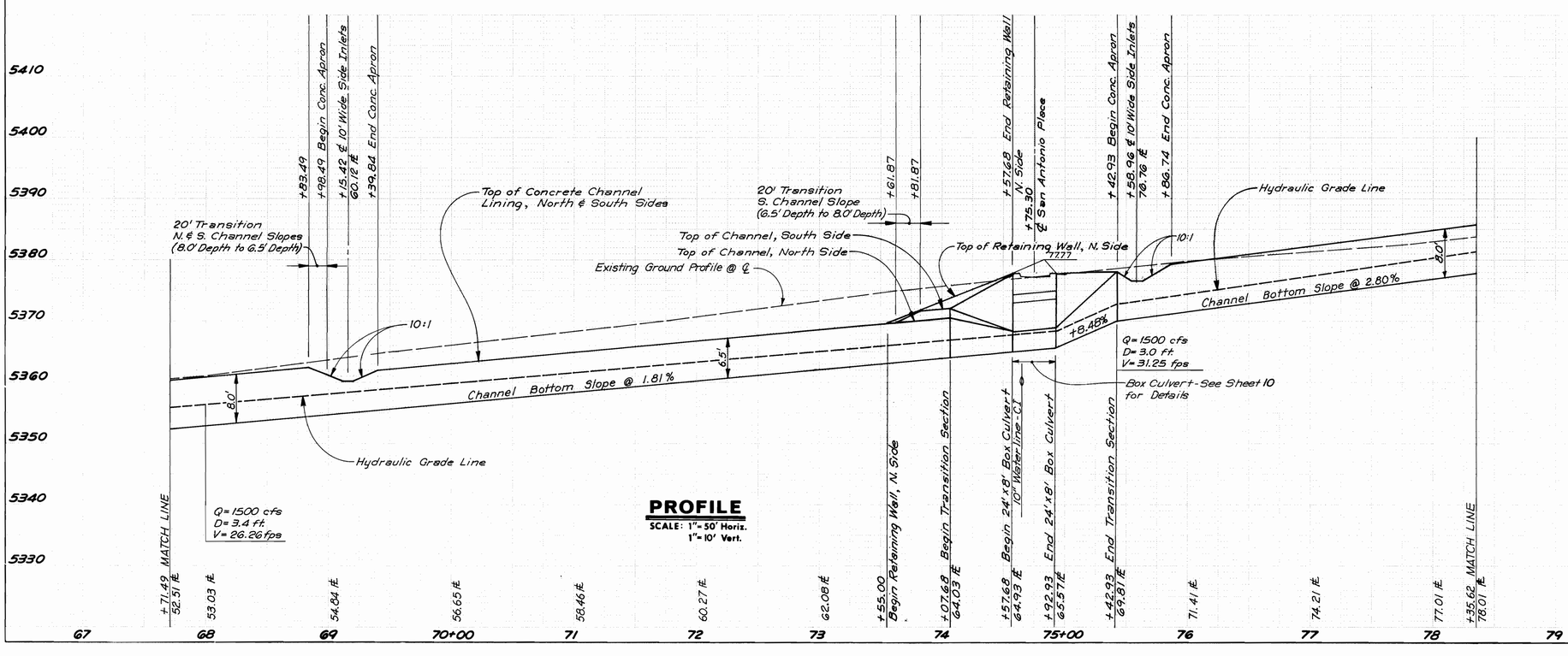
DRAWING NO.	MAP NO.	SHEET	OF
2151	E-18, E-19	6	34



℄ Curve Data

(1) Δ=03°54'04"	(2) Δ=04°08'31"	(3) Δ=19°21'34"
R=1645.00'	R=1549.32'	R=774.66'
L=112.00'	L=112.00'	L=261.75'
T=56.02	T=56.03'	T=132.13'

PLAN
SCALE: 1"=50'



PROFILE
SCALE: 1"=50' Horiz.
1"=10' Vert.

NOTES

1. ~~SEE SHEETS 43 & 44 FOR SANITARY SEWER LINE~~

AS BUILT INFORMATION

CONTRACTOR Moore & Cowart 1187-
WORK STAKED BY A.A.R.R. DATE 10/87
RESIDENT ENGINEER ACCEPTANCE BY City DATE 10/87
FIELD VERIFICATION BY City A.A.A.R.R. DATE 10/87
DRAWINGS CORRECTED BY A.A.R.R. DATE 10/87
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS

ACS STA. "12-E18 1978"	ELEVATION 5337.039
ACS BRASS TABLET SET ON CONCRETE POST FLUSH W/GROUND LOCATED 41 FEET SOUTH OF THE CENTERLINE OF SAN ANTONIO DRIVE AND 34 FEET WEST OF THE CENTERLINE OF LOUISIANA BOULEVARD	

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO 3260 JOHN A. MOOR

ANDREWS, ASBURY & ROBERT, INC.
CONSULTING ENGINEERS 78-138
ALBUQUERQUE NEW MEXICO

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN

DESIGNED BY DATE
DRAWN BY DATE
CHECKED BY DATE

John A. Moor
RECORD DRAWING
26 21510787

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

PINO ARROYO CORRIDOR IMPROVEMENTS

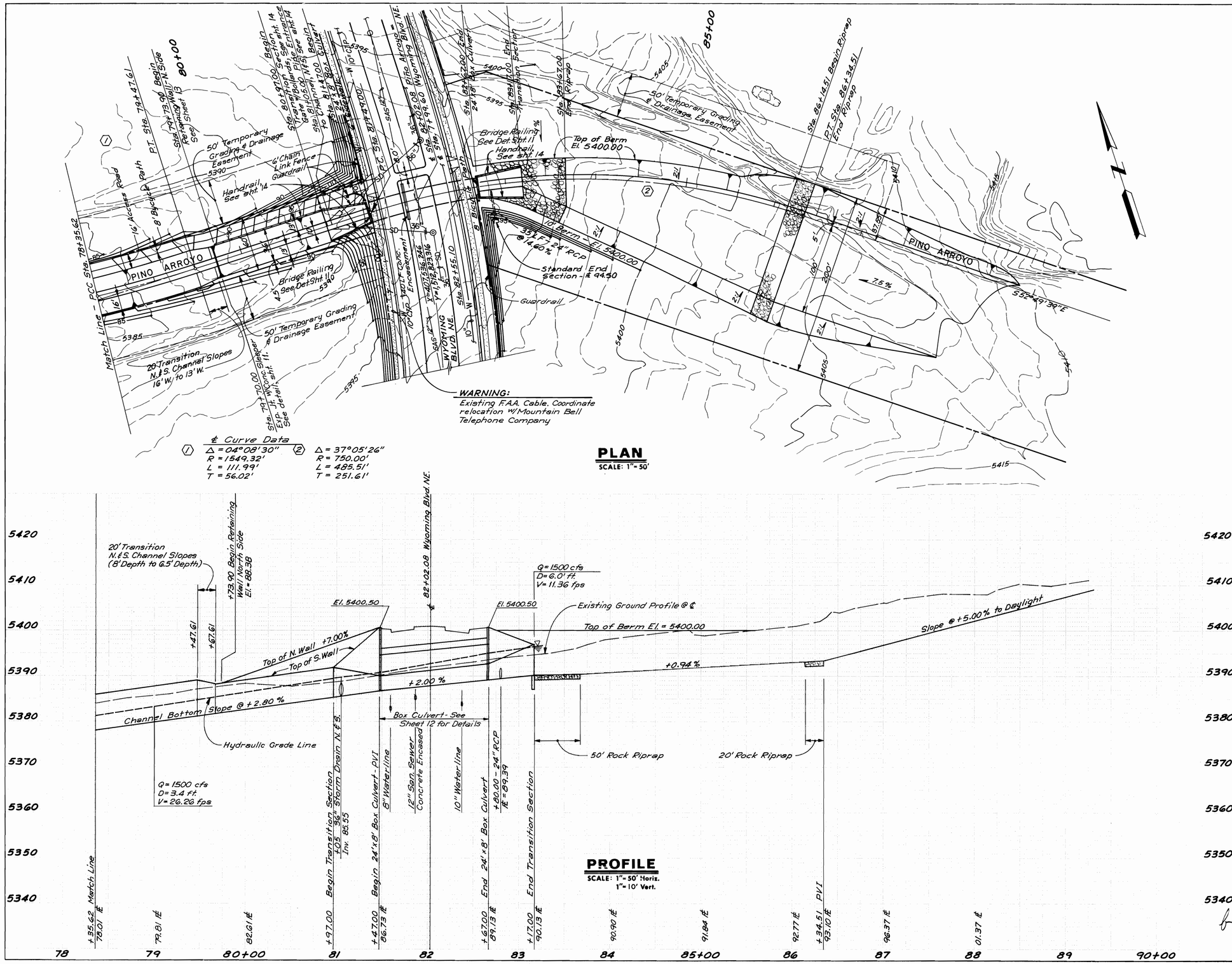
ARROYO CHANNELIZATION
PLAN & PROFILE – STA. 67+71.49 TO STA. 78+35.62

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	[signature]	11/20/86	Liquid Waste	[signature]	1-31-86
A.C.E.-Design	[signature]	1/31/86	Traffic	[signature]	1-31-86
~~A.C.E.~~-Hydrology	[signature]	1-31-86	Water	[signature]	1-31-86

DRAWING NO.	MAP NO.	SHEET	OF
2151	E-18, E-19	7	34

NOTES:

1. SEE SHEET 29 FOR STORM DRAIN.
2. SEE SHEET 31 FOR WATERLINE.



AS BUILT INFORMATION

CONTRACTOR Moore & Dorsett
WORK STAKED BY A.A.R.C. DATE 10/87
INSPECTOR ACCEPTANCE BY City DATE 10/87
FIELD VERIFICATION BY City-A.A.R.C. DATE 10/87
DRAWINGS CORRECTED BY A.A.R.C. DATE 10/87
RECORDED BY MICRO-FILM INFORMATION
NO. DATE

BENCH MARKS

ACS STA "12-E18 1978" ELEVATION 5337.039
ACS BRASS TABLET SET ON CONCRETE POST FLUSH W/GROUND
LOCATED 41 FEET SOUTH OF THE CENTERLINE OF SAN ANTONIO
DRIVE AND 34 FEET WEST OF THE CENTERLINE OF LOUISIANA
BOULEVARD

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO No. 5000 JOHN A. ANDREWS

ANDREWS, ASBURY & ROBERT, INC.
CONSULTING ENGINEERS NEW MEXICO
ALBUQUERQUE 78-538

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGNED BY DATE
DRAWN BY DATE
CHECKED BY DATE

John A. Andrews
RECORD DRAWING
26 21510887

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

PINO ARROYO CORRIDOR IMPROVEMENTS

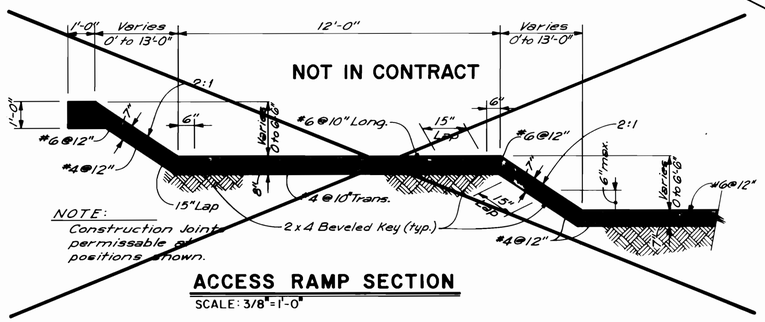
ARROYO CHANNELIZATION

PLAN & PROFILE STA. 78+35.62 TO E.O.P.

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	[illegible]	11/21/86	Liquid Waste	N/A	1-31-86
A.C.E. - Design	[illegible]	1/31/86	Traffic	D.A. Parks	1-31-86
~~A.C.E.~~ - Hydrology	K.K. Goyal	1-31-86	Water	N/A	1-31-86

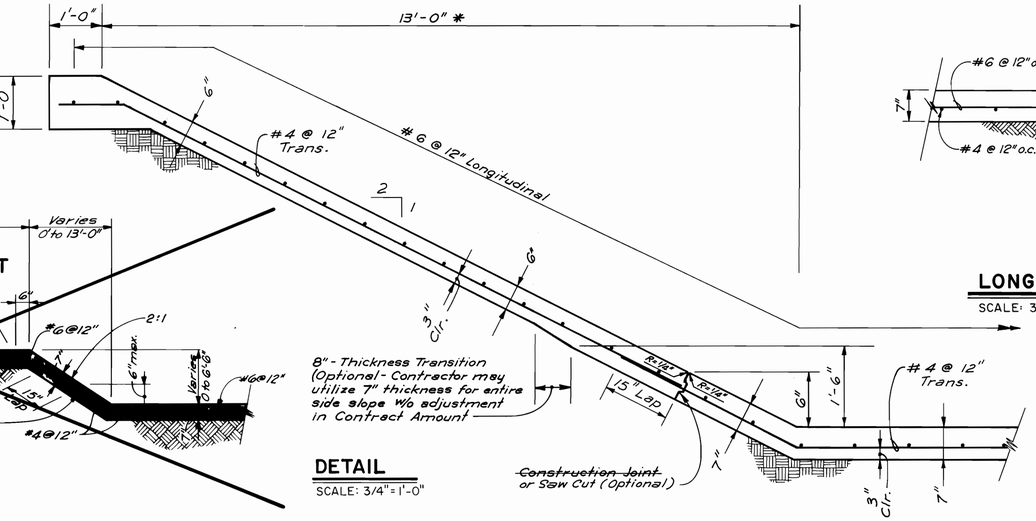
DRAWING NO.	MAP NO.	SHEET	OF
2151	E-18, E-19	8	34

AF 22440A



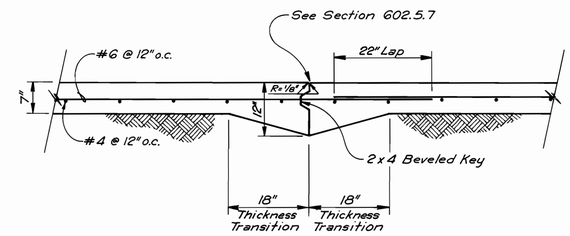
ACCESS RAMP SECTION

SCALE: 3/8" = 1'-0"



DETAIL

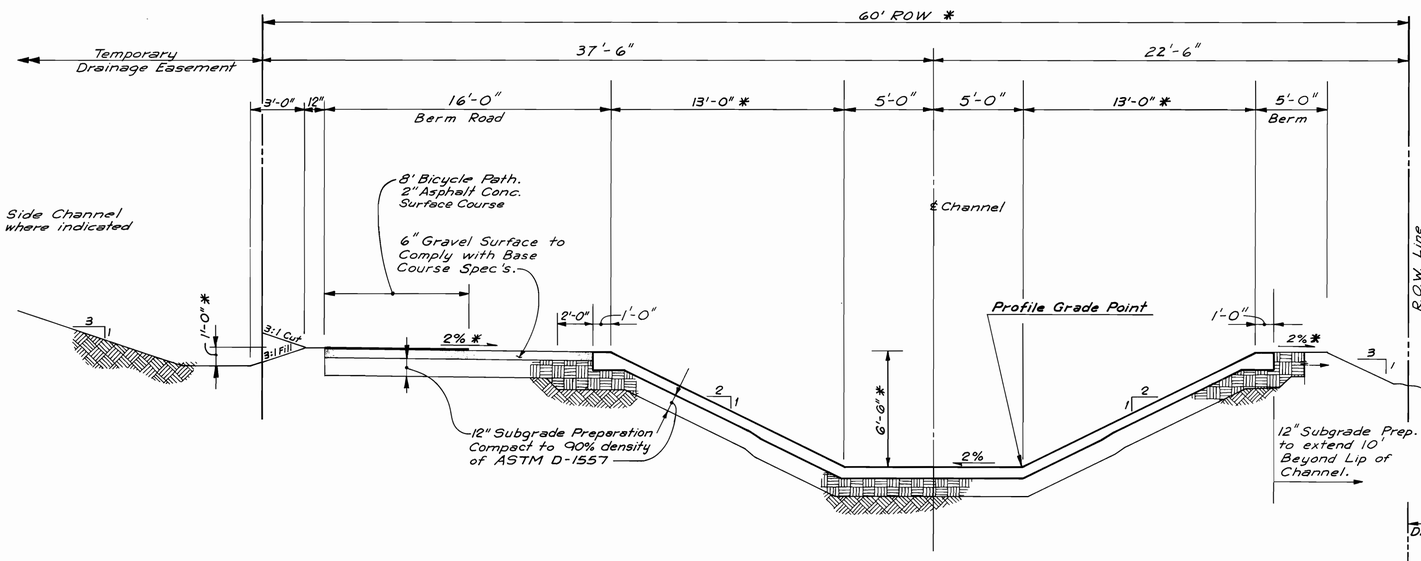
SCALE: 3/4" = 1'-0"



LONGITUDINAL CONSTRUCTION JOINT

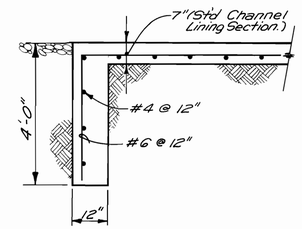
SCALE: 3/4" = 1'-0" (PLACE AT END OF EACH POUR)

* - Normal Unless Otherwise Indicated on Plans



TYPICAL CHANNEL SECTION

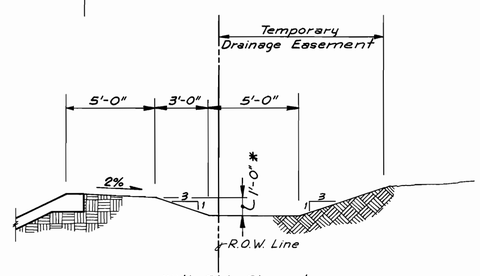
SCALE: 1/4" = 1'-0"



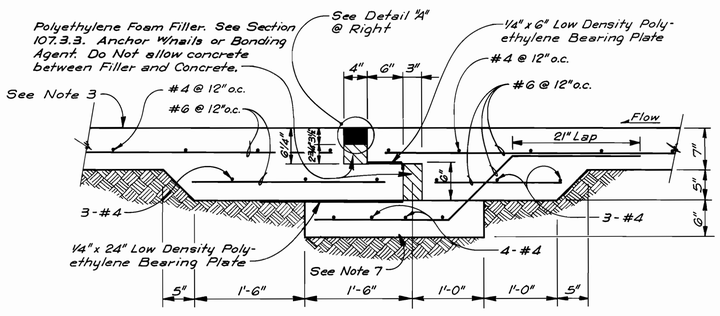
CUT-OFF WALL SECTION

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

Without Side Channel

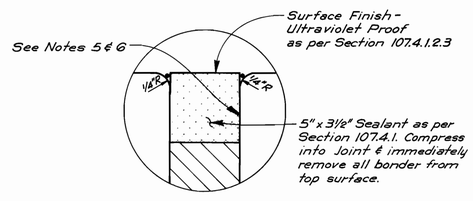


With Side Channel



EXPANSION JOINT WITH CONCRETE SLEEPER

SCALE: 1" = 1'-0"



DETAIL "A"

NO SCALE

NOTES

1. LANDFILL MATERIAL FOUND WITHIN THE LIMITS OF THE CHANNEL OR BENEATH THE ACCESS ROAD SHALL BE REMOVED TO THE LIMITS DIRECTED BY THE ENGINEER AND HAULED TO A SUITABLE DISPOSAL SITE. EXCAVATED AREA SHALL BE BACKFILLED AND COMPACTED TO 90% DENSITY AS DETERMINED BY ASTM D-1557.

CONSTRUCTION NOTES FOR EXPANSION JOINT WITH CONCRETE SLEEPER

1. AS SOON AS JOINT IS COMPLETE, EXPOSED ENDS OF JOINT SHALL BE COVERED WITH A SHEET OF 16 GA. GALV. STEEL ANCHORED TO CONCRETE AT TWO CORNERS ON ONE SIDE OF JOINT, THE SHEET SHALL HAVE ½" CRIMPED EDGES AND WILL EXTEND AT LEAST 3" PAST SEALANT, FILLER ON THE SIDES, 3" BELOW LOWER BEARING PLATE AND BE FLUSH TO TOP OF JOINT.
2. JOINT MATERIALS TO BE PLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
3. POUR DOWNSTREAM SECTION, FLY ASH CONCRETE WITH ALUMINUM FLOAT AND DRY BROOM FINISH. STEEL TROWEL BEARING PLATE SURFACE ONLY. SURFACE TO BE PARALLEL TO SURFACE ON SLEEPER. FORM TO REMAIN IN PLACE UNTIL NEXT DAY.
4. TIE ALL REINFORCING CONNECTIONS SECURELY, SUPPORT SLEEPER MAT WITH PREFORMED CONCRETE SAND CHAIRS. STEEL SHALL BE FREE OF FERRIC OXIDE (BLACK RUST SCALE).
5. SIDE OF FORM TO BE USED TO BLOCK OUT SPACE FOR SEALANT SHALL BE SMOOTH, CLEAN MATERIAL TO AVOID NOSING CONTAMINATION & FOR EASY REMOVAL CONCRETE SHALL BE CURED TO 80% MINIMUM OF DESIGN STRENGTH BEFORE PLACING SEALANT.
6. NOSING PREPARATION AND APPLICATION, SECTION 107.4.1.2, BONDING AGENT SECTION 107.4.1.1.
7. POUR FLY ASH CONCRETE SLEEPER. STEEL TROWEL BEARING SURFACE ONLY.

AS BUILT INFORMATION
CONTRACTOR Moore & Conert 7/87
WORK STAKED BY A.A.&R. DATE 10/87
ACCEPTANCE BY CIV. DATE 10/87
FIELD VERIFICATION BY CHRA A&R DATE 10/87
DRAWINGS CORRECTED BY A.A.&R. DATE 10/87
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
ACS STA "12-E18 1978" ELEVATION 5337.039
ACS BRASS TABLET SET ON CONCRETE POST FLUSH W/GROUND LOCATED 41 FEET SOUTH OF THE CENTERLINE OF SAN ANTONIO DRIVE AND 34 FEET WEST OF THE CENTERLINE OF LOUISIANA BOULEVARD

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO JOHN A. ANDREWS No. 3960
ANDREWS, ASBURY & ROBERT, INC.
CONSULTING ENGINEERS
ALBUQUERQUE NEW MEXICO 78-159

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

RECORD DRAWING
26 21510987

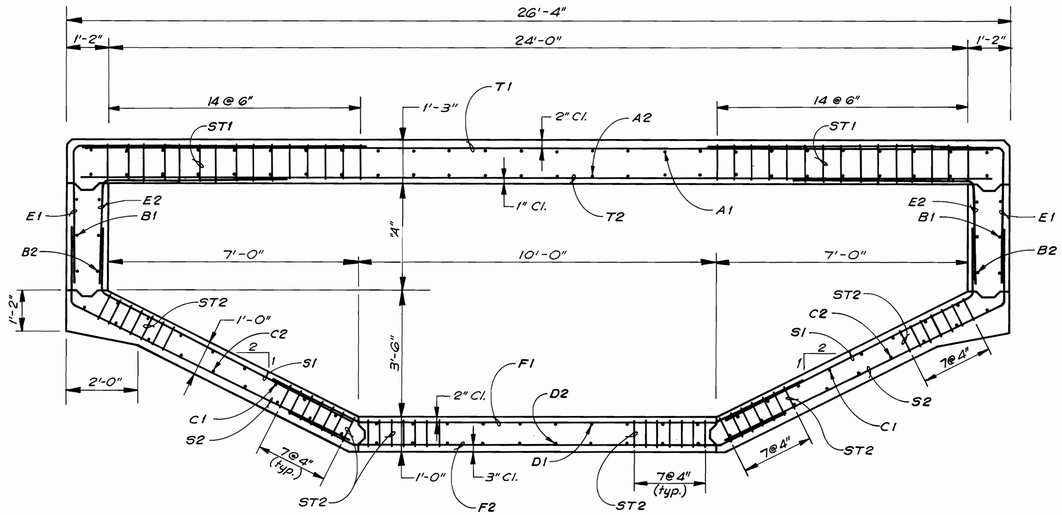
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

PINO ARROYO CORRIDOR IMPROVEMENTS

TYPICAL CHANNEL SECTION

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	[illegible]	11/20/86	Liquid Waste	N/A BR	1-31-86
A.C.E. - Design	[illegible]	1/31/86	Traffic	D.A. Parda	1-31-86
~~A.C.E.~~ - Hydrology	R.K. Loyal	1-31-86	Water	N/A BR	1-31-86

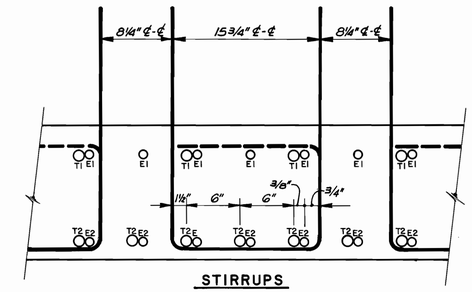
DRAWING NO. 2151 | MAP NO. E-18, E-19 | SHEET 9 OF 34



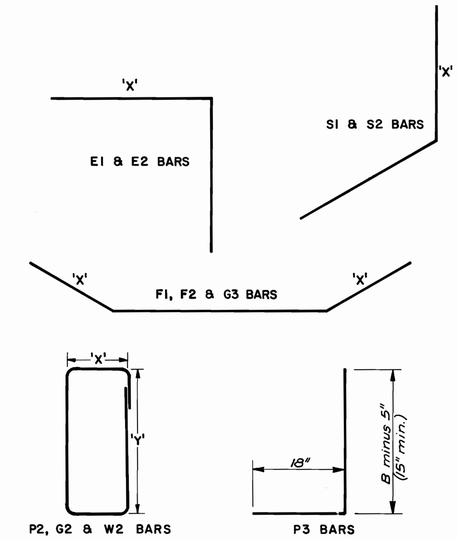
TYPICAL SECTION

BOX CULVERT

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

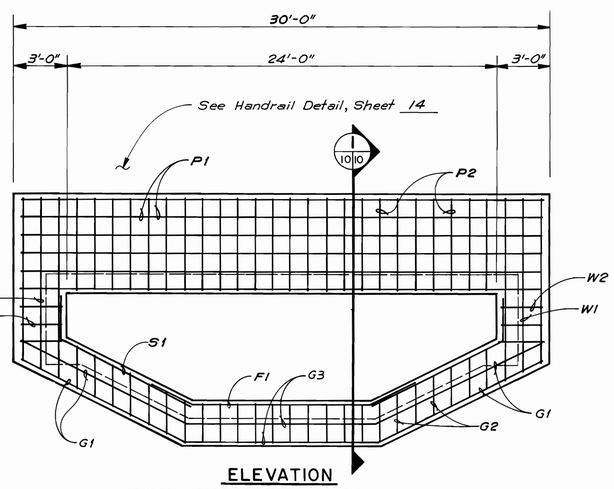


STIRRUPS



BAR BENDING DIAMETERS									
Bar Size	#3	#4	#5	#6	#7	#8	#9	#10	#11
'D' (dia. inch.)	2.25	3.0	3.75	4.5	5.25	6.0	9.0	10.25	11.25
Stirrup 'D'	1.5	2.0	2.5	3.0	—	—	—	—	—

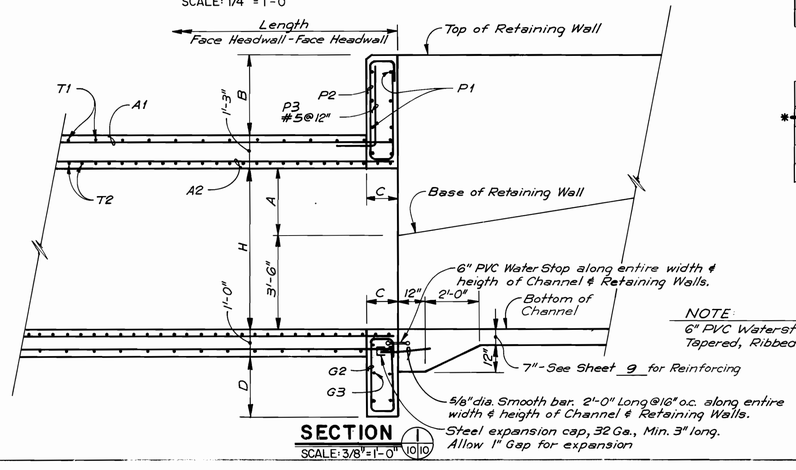
BAR BENDING DETAILS



ELEVATION

BOX CULVERT HEADWALL

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



SECTION

SCALE: 3/8" = 1'-0"

NOTE:
6" PVC Waterstop shall be Heavy Duty, 3/8" thick, Tapered, Ribbed, with Center Bulb.

*NOT IN CONTRACT

CROSSING	A1 SIZE	A1 SPACING	A2 SIZE	A2 SPACING	B1 SIZE	B1 SPACING	B2 SIZE	B2 SPACING	C1 SIZE	C1 SPACING	C2 SIZE	C2 SPACING	D1 SIZE	D1 SPACING	D2 SIZE	D2 SPACING	E1 SIZE	E1 SPACING	E1 LENGTH	E1 'X'	E2 SIZE	E2 SPACING	E2 LENGTH	E2 'X'	F1 SIZE	F1 SPACING	F1 LENGTH	F1 'X'
~~*San Pedro Dr.~~	~~#4~~	~~16"~~	~~#4~~	~~16"~~	~~#4~~	~~16"~~	~~#4~~	~~16"~~	~~#4~~	~~16"~~	~~#4~~	~~16"~~	~~#4~~	~~16"~~	~~#4~~	~~16"~~	~~#8~~	~~6"~~	~~11'-4"~~	~~7'-4"~~	~~#8~~	~~6"~~	~~7'-5"~~	~~4'-4"~~	~~#8~~	~~6"~~	~~17'-0"~~	~~3'-6"~~
Louisiana Blvd.	#4	12"	#4	12"	#4	12"	#4	12"	#4	12"	#4	12"	#4	12"	#4	12"	#8	6"	12'-10"	7'-4"	#8	6"	8'-11"	4'-4"	#8	6"	17'-0"	3'-6"
San Antonio Dr.	#4	12"	#4	12"	#4	12"	#4	12"	#4	12"	#4	12"	#4	12"	#4	12"	#8	6"	12'-10"	7'-4"	#8	6"	8'-11"	4'-4"	#8	6"	17'-0"	3'-6"
Wyoming Blvd.	#4	12"	#4	12"	#4	12"	#4	12"	#4	12"	#4	12"	#4	12"	#4	12"	#8	6"	12'-10"	7'-4"	#8	6"	8'-11"	4'-4"	#8	6"	17'-0"	3'-6"

CROSSING	F2 SIZE	F2 SPACING	F2 LENGTH	F2 'X'	S1 SIZE	S1 SPACING	S1 LENGTH	S1 'X'	S2 SIZE	S2 SPACING	S2 LENGTH	S2 'X'	T1 SIZE	T1 SPACING	T1 LENGTH	T2 SIZE	T2 SPACING	T2 LENGTH	ST1 SIZE	ST1 LENGTH	ST1 'X'	ST1 'Y'	ST2 SIZE	ST2 LENGTH	ST2 'X'	ST2 'Y'
~~*San Pedro Dr.~~	~~#8~~	~~12"~~	~~15'-0"~~	~~2'-6"~~	~~#8~~	~~12"~~	~~10'-6"~~	~~2'-6"~~	~~#8~~	~~6"~~	~~12'-10"~~	~~3'-6"~~	~~#9~~	~~12"~~	~~25'-7"~~	~~#9~~	~~6"~~	~~25'-7"~~	~~#3~~	~~5'-5"~~	~~1'-4⅛"~~	~~2'-1"~~	~~#3~~	~~4'-8"~~	~~1'-4⅛"~~	~~1'-8"~~
Louisiana Blvd.	#8	12"	15'-0"	2'-6"	#8	12"	10'-6"	2'-6"	#8	6"	12'-10"	3'-6"	#9	12"	25'-7"	#9	6"	25'-7"	#3	5'-5"	1'-4⅛"	2'-1"	#3	4'-8"	1'-4⅛"	1'-8"
San Antonio Dr.	#8	12"	15'-0"	2'-6"	#8	12"	10'-6"	2'-6"	#8	6"	12'-10"	3'-6"	#9	12"	25'-7"	#9	6"	25'-7"	#3	5'-5"	1'-4⅛"	2'-1"	#3	4'-8"	1'-4⅛"	1'-8"
Wyoming Blvd.	#8	12"	15'-0"	2'-6"	#8	12"	10'-6"	2'-6"	#8	6"	12'-10"	3'-6"	#9	12"	25'-7"	#9	6"	25'-7"	#3	5'-5"	1'-4⅛"	2'-1"	#3	4'-8"	1'-4⅛"	1'-8"

CROSSING	P1 SIZE	P1 SPACING	P1 LENGTH	P2 SIZE	P2 SPACING	P2 LENGTH	P2 'X'	P2 'Y'	G1 SIZE	G1 SPACING	G1 LENGTH	G2 SIZE	G2 SPACING	G2 LENGTH	G2 'X'	G2 'Y'	G3 SIZE	G3 SPACING	G3 LENGTH	G3 'X'	W1 SIZE	W1 SPACING	W1 LENGTH	W2 SIZE	W2 SPACING	W2 LENGTH	W2 'X'	W2 'Y'
							(UPSTREAM ONLY)																				(UPSTREAM ONLY)	
~~*San Pedro Dr.~~	~~#9~~	~~16"~~	~~29'-8"~~	~~#7~~	~~16"~~	~~8'-11"~~	~~10"~~	~~3'-5"~~	~~#6~~	~~12"~~	~~10'-0"~~	~~#4~~	~~12"~~	~~9'-10"~~	~~10"~~	~~3'-9"~~	~~#6~~	~~12"~~	~~15'-0"~~	~~2'-6"~~	~~#9~~	~~12"~~	~~13'-9"~~	~~#7~~	~~12"~~	~~7'-5"~~	~~0'-10"~~	~~2'-8"~~
Louisiana Blvd.	#9	12"	29'-8"	#7	12"	11'-7"	10"	4'-9"	#6	12"	10'-0"	#4	12"	9'-10"	10"	3'-9"	#6	12"	15'-0"	2'-6"	#9	12"	13'-9"	#7	12"	7'-5"	0'-10"	2'-8"
San Antonio Dr.	#9	12"	29'-8"	#7	12"	9'-7"	10"	3'-9"	#6	12"	10'-0"	#4	12"	9'-10"	10"	3'-9"	#6	12"	15'-0"	2'-6"	#9	12"	12'-9"	#7	12"	7'-5"	0'-10"	2'-8"
Wyoming Blvd.	#9	12"	29'-8"	#7	12"	10'-9"	10"	4'-4"	#6	12"	10'-0"	#4	12"	9'-10"	10"	3'-9"	#6	12"	15'-0"	2'-6"	#9	12"	14'-3"	#7	12"	7'-5"	0'-10"	2'-8"

CROSSING	LENGTH	A	H	B (UPSTR'M)	B (DWNSTR'M)	C	D
~~*San Pedro Dr.~~	~~113'-0"~~	~~3'-0"~~	~~8'-6"~~	~~2'-6 7/16"~~	~~3'-1 7/16"~~	~~1'-2"~~	~~3'-3"~~
Louisiana Blvd.	100'-0"	4'-6"	8'-0"	3'-11¾"	4'-9"	1'-2"	3'-3"
San Antonio Pl.	35'-3"	4'-6"	8'-0"	2'-11 3/16"	3'-7⅛"	1'-2"	3'-3"
Wyoming Blvd.	120'-0"	4'-6"	8'-0"	2'-1 7/16"	4'-6"	1'-2"	3'-3"

DOWNSTREAM ONLY

CROSSING	W1 SIZE	W1 SPACING	W1 LENGTH	P2 SIZE	P2 SPACING	P2 LENGTH	P2 'X'	P2 'Y'
~~*San Pedro Dr.~~	~~#9~~	~~16"~~	~~11'-5"~~	~~#7~~	~~12"~~	~~11'-11"~~	~~10"~~	~~4'-11"~~
Louisiana Blvd.	#9	12"	14'-6"	#7	12"	13'-3"	10"	5'-7"
San Antonio Dr.	#9	12"	13'-4"	#7	12"	10'-11"	10"	4'-5"
Wyoming Blvd.	#9	12"	11'-10"	#7	12"	7'-11"	10"	2'-11"

John A. Andrews
RECORD DRAWING

26 21511087

AS BUILT INFORMATION
CONTRACTOR: Moore & Conart
WORK STAKED BY: A.A.&R. DATE: 11/87
INSPECTED BY: A.A.&R. DATE: 11/87
ACCEPTANCE BY: City DATE: 10/87
FIELD LOCATION BY: City & A.A.&R. DATE: 10/87
DRAWING CORRECTED BY: A.A.&R. DATE: 10/87
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
ACS STA "12-E18 1978" ELEVATION 5337.039
ACS BRASS TABLET SET ON CONCRETE POST FLUSH W/GROUND
LOCATED 41 FEET SOUTH OF THE CENTERLINE OF SAN ANTONIO DRIVE AND 34 FEET WEST OF THE CENTERLINE OF LOUISIANA BOULEVARD

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO 9001
ANDREWS, ASBURY & ROBERT, INC.
CONSULTING ENGINEERS 79-139
ALBUQUERQUE N.M. MEXICO

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGNED BY DATE
DRAWN BY DATE
CHECKED BY DATE

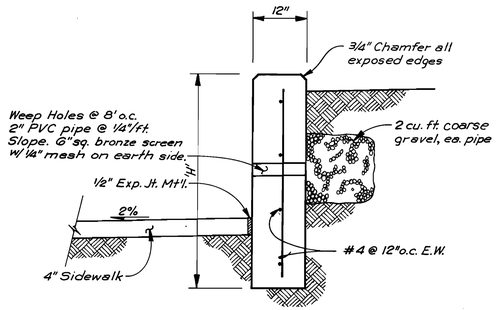
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

PINO ARROYO CORRIDOR IMPROVEMENTS

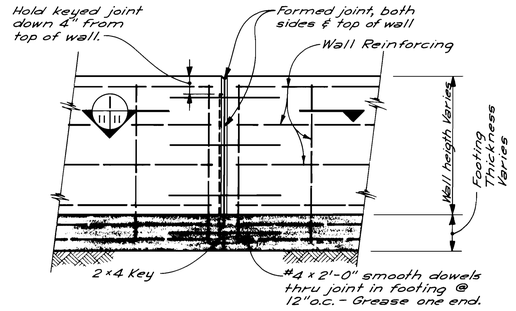
CROSSING STRUCTURE DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	[illegible]	11/20/86	Liquid Waste	N/A	B.R. 1-31-86
A.C.E.-Design	[illegible]	1/31/86	Traffic	N/A	D.G.R. 1-31-86
~~A.C.E.~~ -Hydrology	R.R. Royal	1-31-86	Water	N/A	B.R. 1-31-86

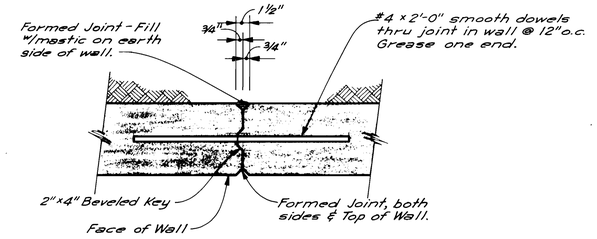
DRAWING NO. 2151 | MAP NO. E-18, E-19 | SHEET 10 OF 34



TYPICAL SECTION
TYPE 'A'
CONCRETE RETAINING WALL



ELEVATION
NO SCALE

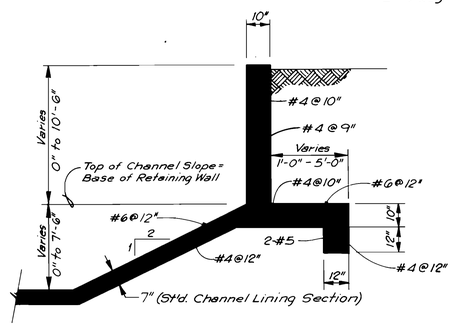


SECTION 1
NO SCALE

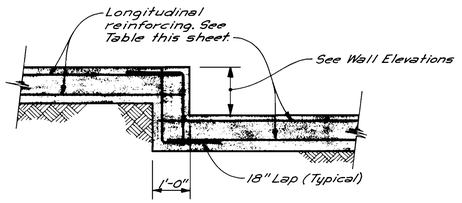
CONCRETE WALL CONSTRUCTION JOINT DETAILS
NO SCALE

NOTES

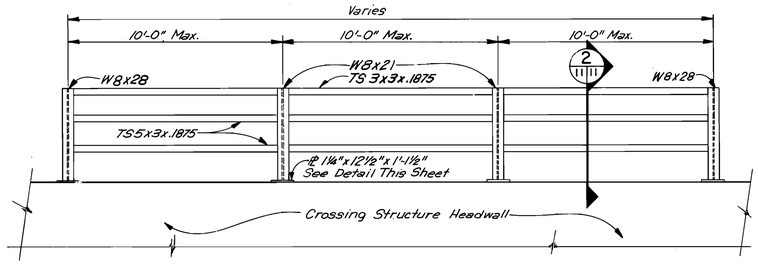
1. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI IN 28 DAYS.
2. REINFORCING STEEL SHALL BE GRADE 60.
3. SEAL ALL CONTROL JOINTS ON EARTH SIDE OF RETAINING WALLS. JOINT SEALANT SHALL BE SONOLASTIC NP-1 AS MFG'D BY SONOBORN OR APPROVED EQUAL.
4. EARTH SIDE OF RETAINING WALLS SHALL BE DAMP PROOFED. USE HYDROSIDE 700 B AS MFG'D BY SONOBORN OR APPROVED EQUAL. TWO COATS.
5. CONTRACTOR SHALL PERFORM ALL EXCAVATION AND BACKFILL AS REQUIRED FOR A COMPLETE INSTALLATION.
6. ALL RETAINING WALL FOOTING SHALL BE FOUNDED UPON 12" SUBGRADE PREPARATION @ 95% DENSITY.



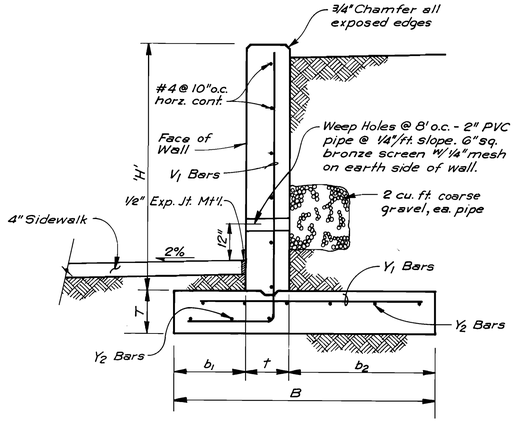
TYPICAL SECTION
TYPE 'D'
CONCRETE RETAINING WALL



TYPICAL FOOTING STEP DETAIL
NO SCALE



ELEVATION



TYPICAL SECTION
TYPE 'B' AND TYPE 'C'
CONCRETE RETAINING WALL

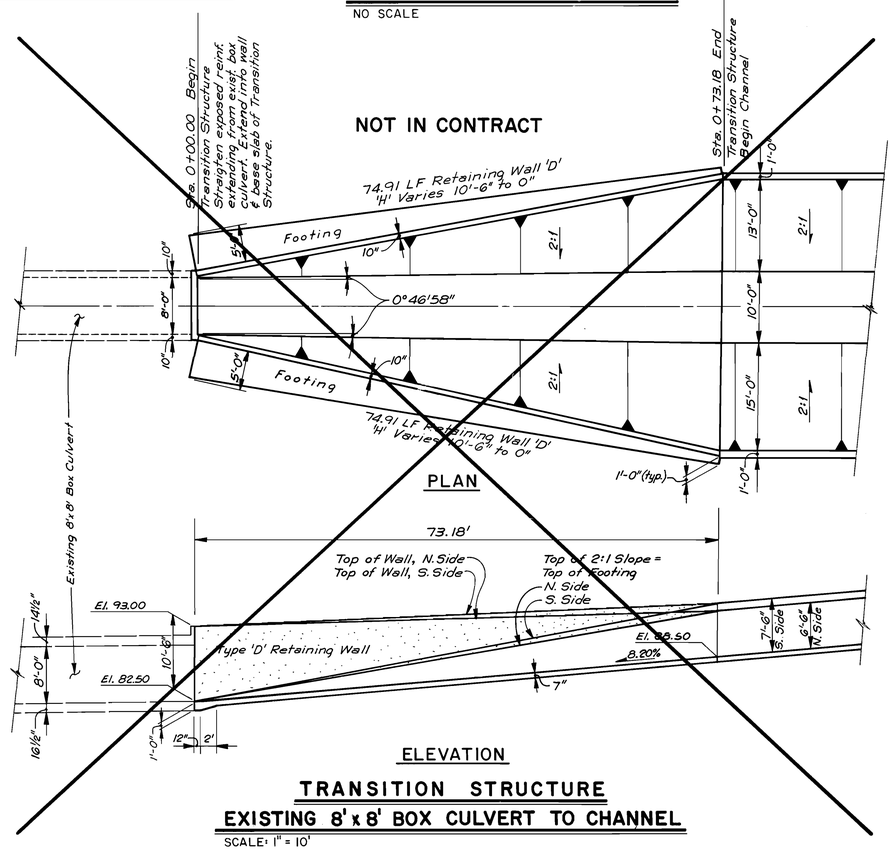
TYPE 'B' RETAINING WALL

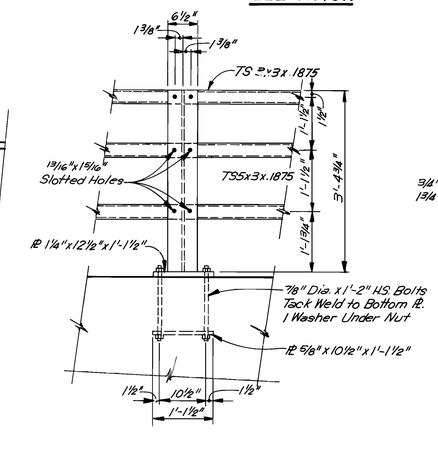
H	B	b_1	t	T	b_2	V_1	Y_1	Y_2
3'-0" OR LESS	1'-9"	0'- 4"	10"	0'-10"	0'- 7"	#4@18"	#4 x 1'- 3"@18"	#4@10"
4'-0"	2'-0"	0'- 5"	10"	0'-10"	0'- 9"	#4@18"	#4 x 1'- 8"@18"	#4@10"
5'-0"	2'-8"	0'- 5"	10"	0'-10"	1'- 5"	#4@18"	#4 x 2'- 2"@14"	#4@10"

TYPE 'C' RETAINING WALL

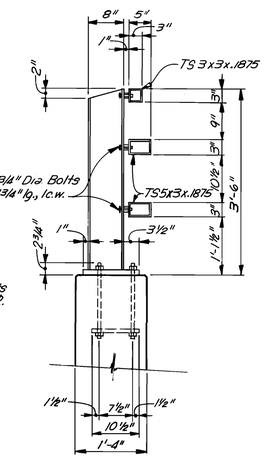
H	B	b_1	t	T	b_2	V_1	Y_1	Y_2
3'-0" OR LESS	2'-6"	0'-10"	8"	0'-10"	1'- 0"	#4@18"	#4 x 2'- 0"@18"	#4@10"
4'-0"	3'-0"	1'- 2"	8"	0'-10"	1'- 2"	#4@18"	#4 x 2'- 6"@18"	#4@10"
5'-0"	3'-6"	1'- 3"	8"	0'-10"	1'- 7"	#4@14"	#4 x 3'- 0"@14"	#4@10"
6'-0"	4'-2"	1'- 5"	8"	0'-10"	2'- 1"	#4@12"	#4 x 3'- 8"@12"	#4@10"
7'-0"	4'-8"	1'- 7"	10"	1'- 0"	2'- 3"	#4@10"	#4 x 4'- 2"@10"	#4@10"
8'-0"	5'-2"	1'- 9"	10"	1'- 0"	2'- 7"	#5@12"	#5 x 4'- 6"@12"	#4@10"
9'-0"	5'-9"	2'- 0"	10"	1'- 0"	2'-11"	#5@10"	#5 x 4'-10"@12"	#4@10"
10'-0"	6'-3"	2'- 2"	10"	1'- 0"	3'- 3"	#5@ 8"	#5 x 5'- 1"@12"	#5@10"
11'-0"	6'-9"	2'- 4"	10"	1'- 0"	3'- 7"	#5@ 6"	#5 x 5'- 5"@12"	#5@10"
12'-0"	7'-3"	2'- 6"	10"	1'- 2"	3'-11"	#6@ 9"	#5 x 5'- 8"@12"	#5@10"
13"-0"	7'-9"	2'- 8"	12"	1'- 2"	4'- 1"	#6@ 8"	#6 x 5'-10"@12"	#5@10"
14'-0"	8'-4"	2'-10"	12"	1'- 3"	4'- 6"	#6@ 6"	#6 x 6'- 0"@12"	#5@10"

NOT IN CONTRACT





ELEVATION



SECTION 2

METAL BRIDGE RAILING DETAILS
NO SCALE

John A. Andrews
RECORD DRAWING
26 21511187

AS BUILT INFORMATION
CONTRACTOR Moore & Comart
WORK STAKED BY A.A.&R.
INSPECTOR'S ACCEPTANCE BY City
FIELD VERIFICATION BY City & A.A.&R.
DRAWINGS CORRECTED BY A.A.&R.
MICRO-FILM INFORMATION
RECORDED BY
NO. DATE

BENCH MARKS
ACS STA "12-E18 1978" ELEVATION 5337.039
ACS BRASS TABLET SET ON CONCRETE POST FLUSH W/GROUND
LOCATED 41 FEET SOUTH OF THE CENTERLINE OF SAN ANTONIO DRIVE AND 34 FEET WEST OF THE CENTERLINE OF LOUISIANA BOULEVARD

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO JOHN A. ANDREWS
ANDREWS, ASBURY & ROBERT, INC.
CONSULTING ENGINEERS
ALBUQUERQUE, NEW MEXICO

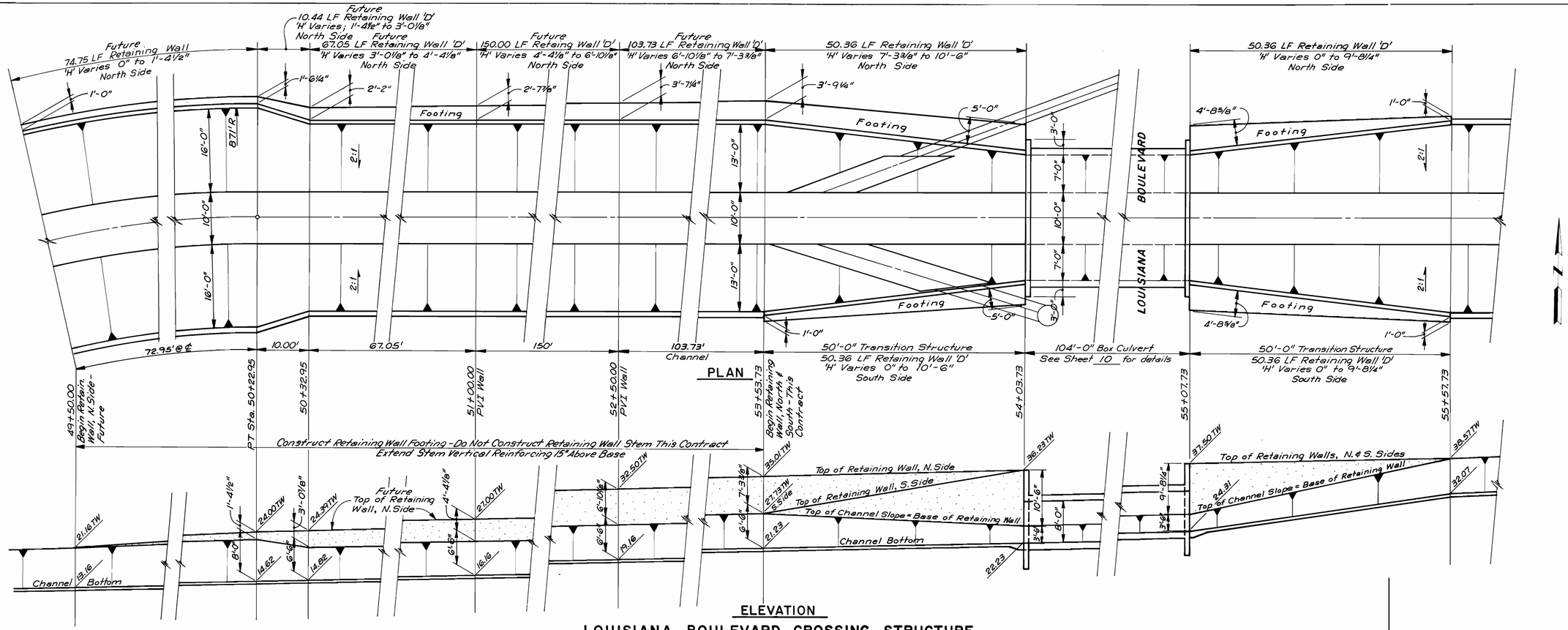
REVISIONS
NO. DATE REMARKS BY
DESIGNED BY DATE
DRAWN BY DATE
CHECKED BY DATE

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

PINO ARROYO CORRIDOR IMPROVEMENTS
CONCRETE RETAINING WALL DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	[illegible]	11/20/86	Liquid Waste	N/A	
A.C.E. - Design	[illegible]	1/31/86	Traffic	N/A	1-31-86
A.C.E. - Hydrology	[illegible]	1.31.86	Water	N/A	1-31-86

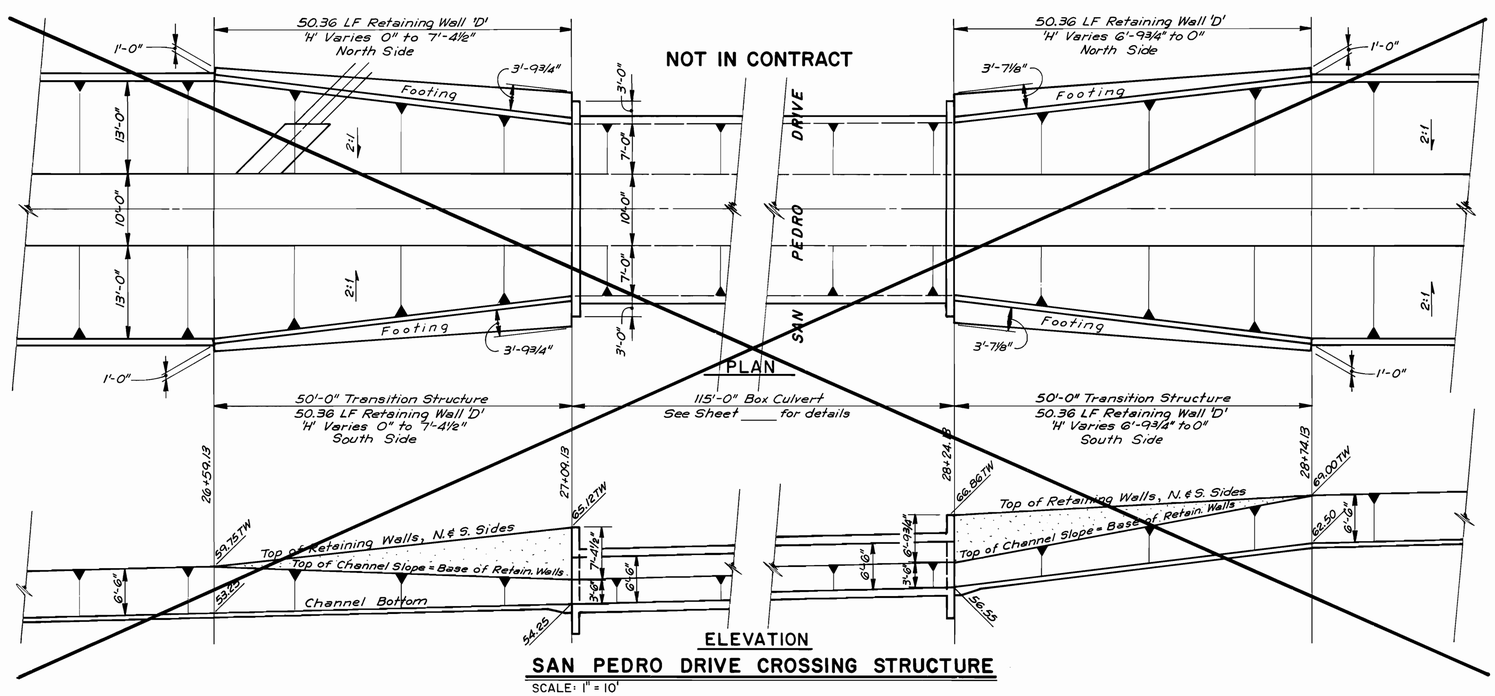
DRAWING NO. 2151 | MAP NO. E-18, E-19 | SHEET 11 OF 34



ELEVATION

LOUISIANA BOULEVARD CROSSING STRUCTURE

SCALE: 1" = 10'



ELEVATION

SAN PEDRO DRIVE CROSSING STRUCTURE

SCALE: 1" = 10'

AS BUILT INFORMATION

CONTRACTOR Moore & Cowart
WORK ISSUED BY A.A.R.R. DATE 10/87
INSPECTORS
ACCEPTANCE BY City DATE 10/87
FIELD VERIFICATION BY City A.A.R.R. DATE 10/87
CORRECTED BY A.A.R.R. DATE 10/87
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS

ACS STA "12-E18 1978" ELEVATION 5337.039
ACS BRASS TABLET SET ON CONCRETE POST FLUSH W/GROUND
LOCATED 41 FEET SOUTH OF THE CENTERLINE OF SAN ANTONIO
DRIVE AND 34 FEET WEST OF THE CENTERLINE OF LOUISIANA
BOULEVARD

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO JOHN A. MINOR

ANDREWS, ASBURY & ROBERT, INC.
CONSULTING ENGINEERS
ALBUQUERQUE, N.M. U.S.A.

NO.	DATE	REMARKS	BY

REVISIONS

		DATE
DESIGNED BY	JM	
DRAWN BY	JV	
CHECKED BY	JA	

John A. Minor
RECORD DRAWING
26 2151 1287

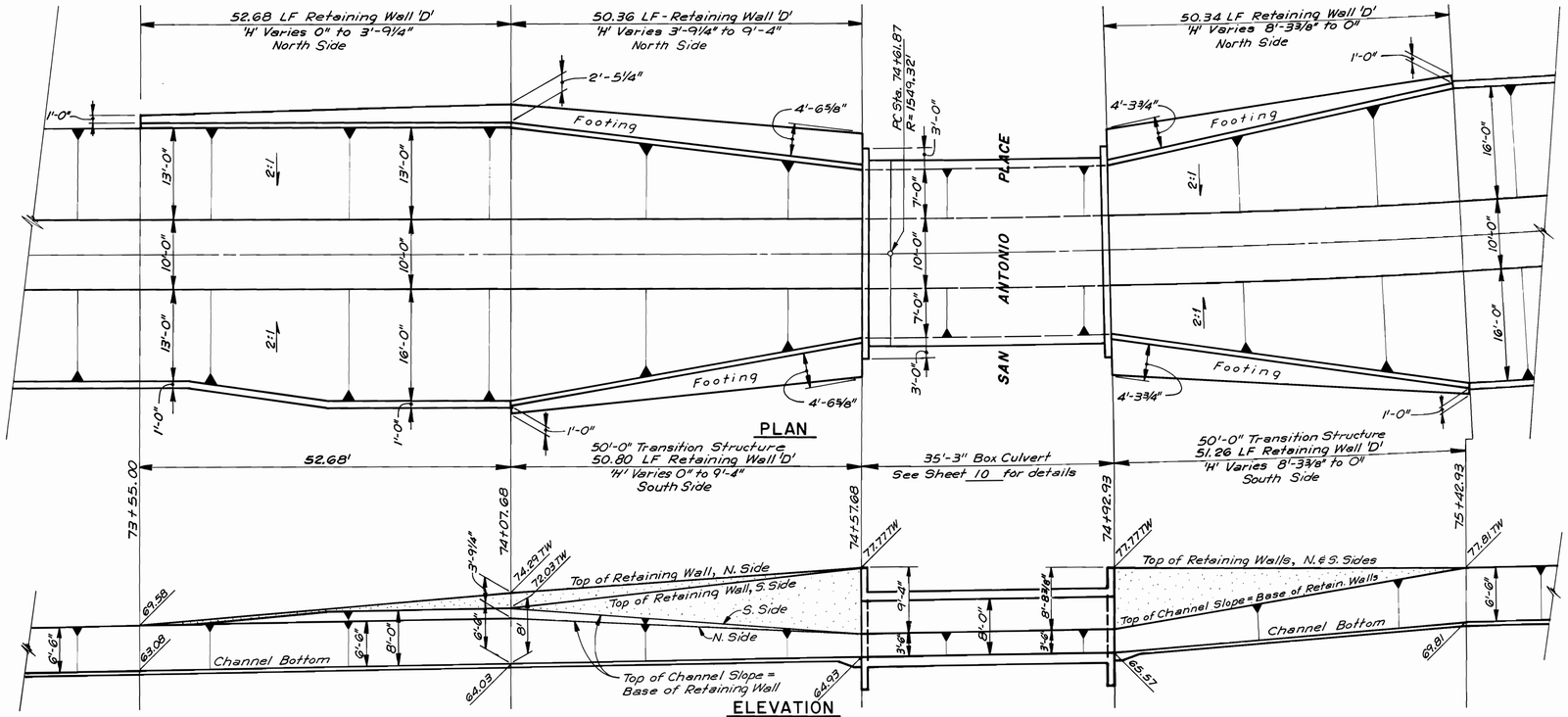
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

PINO ARROYO CORRIDOR IMPROVEMENTS

TRANSITION STRUCTURE RETAINING WALLS

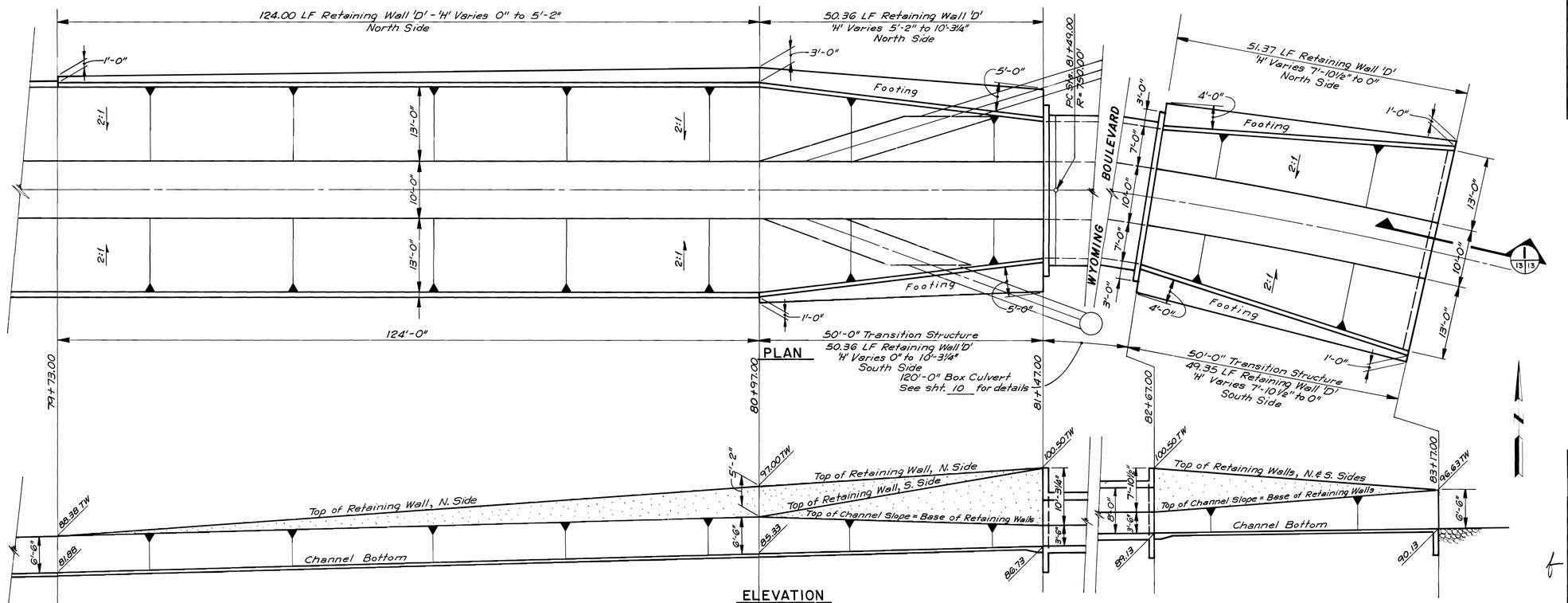
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	[illegible]	11/20/86	Liquid Waste	N/A BR	1-31-86
A.C.E. - Design	[illegible]	1/31/86	Traffic	N/A DAP	1-31-86
A.C.E. - Hydrology	R.R. Royal	1-31-86	Water	N/A BR	1-31-86

DRAWING NO.	MAP NO.	SHEET	OF
2151	E-18, E-19	12	34



SAN ANTONIO PLACE CROSSING STRUCTURE

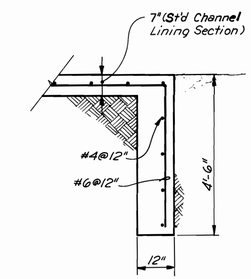
SCALE: 1" = 10'



WYOMING BOULEVARD CROSSING STRUCTURE

SCALE: 1" = 10'

RECORD DRAWING



SECTION

NO SCALE

AS BUILT INFORMATION	
CONTRACTOR Moore & Cowart	11/87
WORK STAKED BY A.A.F.R.	DATE 10/87
ASBUILT NOTES BY City	DATE 10/87
FIELD VERIFICATION BY City A.A.F.R.	DATE 10/87
DRAWINGS CORRECTED BY A.A.F.R.	DATE 10/87
MICRO-FILM INFORMATION	
RECORDED BY	
DATE	
NO.	

BENCH MARKS

ACS STA "12-E18 1978"	ELEVATION 5337.039
ACS BRASS TABLET SET ON CONCRETE POST FLUSH W/GROUND	
LOCATED 41 FEET SOUTH OF THE CENTERLINE OF SAN ANTONIO DRIVE AND 34 FEET WEST OF THE CENTERLINE OF LOUISIANA BOULEVARD	

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

REGISTERED PROFESSIONAL ENGINEER — STATE OF NEW MEXICO — JOHN A. ANDREWS

ANDREWS, ASBURY & ROBERT, INC.
CONSULTING ENGINEERS 79-138
ALBUQUERQUE, NEW MEXICO

NO.	DATE	REMARKS	BY

REVISIONS

DESIGNED BY	JM	DATE	
DRAWN BY	JV	DATE	
CHECKED BY	JA	DATE	

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

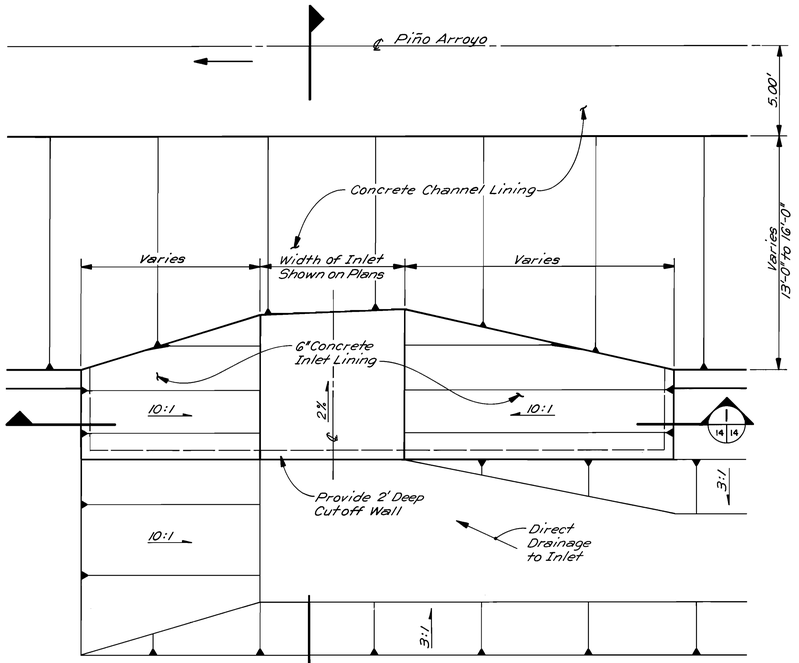
PINO ARROYO CORRIDOR IMPROVEMENTS

TRANSITION STRUCTURE RETAINING WALLS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	[illegible]	11/20/86	Liquid Waste	N/A BR	1-31-86
A.C.E.-Design	[illegible]	1/31/86	Traffic	N/A DAP	1-31-86
~~A.C.E.~~-Hydrology	K.K. Gogal	1-31-86	Water	N/A BR	1-31-86

DRAWING NO.	MAP NO.	SHEET	OF
2151	E-18, E-19	13	34

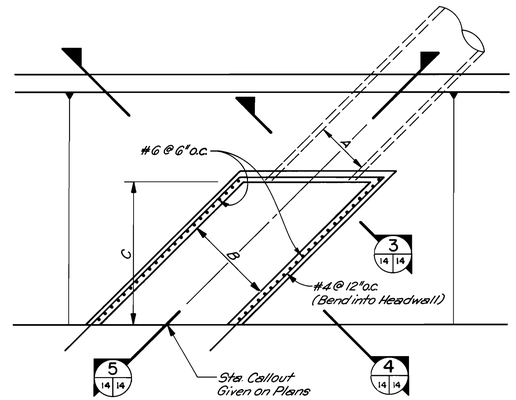
26 21511387



2 | 14 | 14 PLAN

TYPICAL SIDE INLET DETAIL

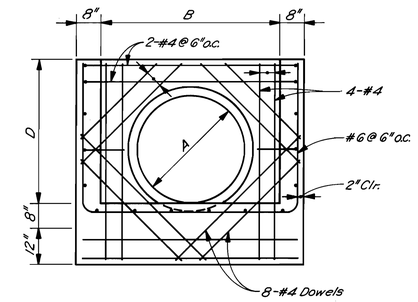
SCALE: 1/4" = 1'-0"



PLAN

PIPE CONNECTION TO CHANNEL DETAIL

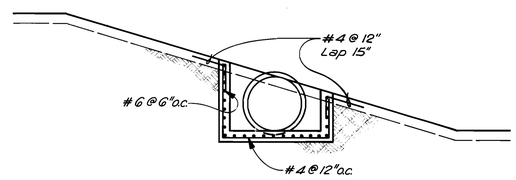
SCALE: 1/4" = 1'-0"



SECTION 3 | 14 | 14

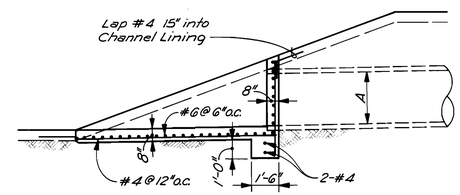
SCALE: 1/2" = 1'-0"

PIPE CONNECTION TO CHANNEL			
A	B	C	D
24"	4'-0"	6'-0"	3'-0"
30"	4'-6"	7'-0"	3'-6"
36"	5'-0"	8'-0"	4'-0"
42"	5'-6"	9'-0"	4'-6"
48"	6'-0"	10'-0"	5'-0"



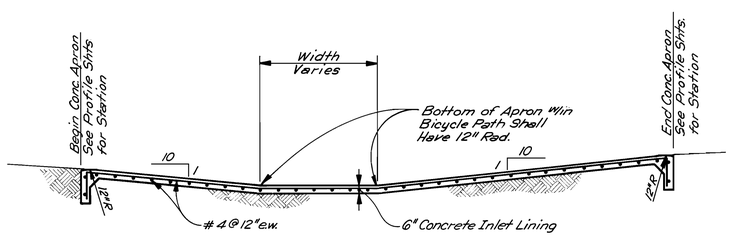
SECTION 4 | 14 | 14

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



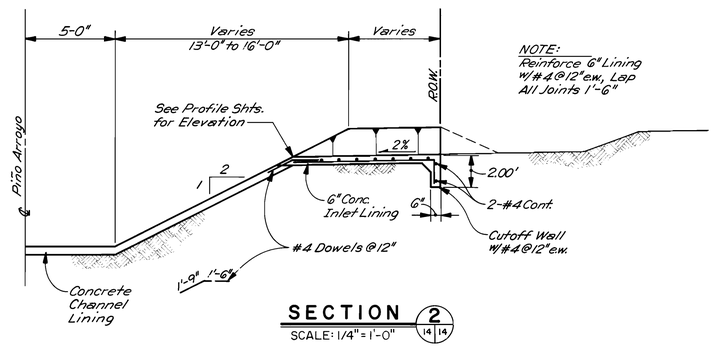
SECTION 5 | 14 | 14

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



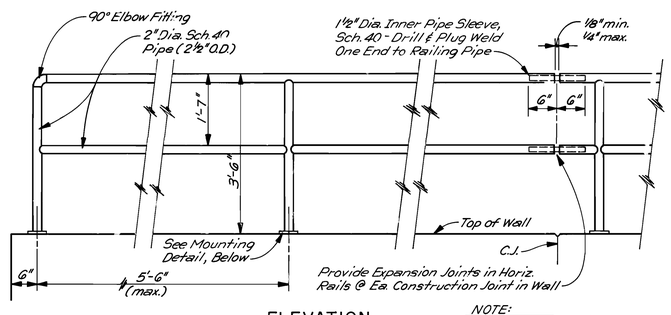
SECTION 1 | 14 | 14

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



SECTION 2 | 14 | 14

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

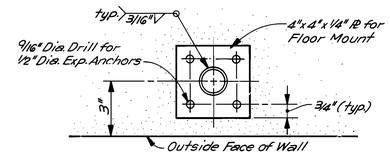


ELEVATION

NOTE:
Cope & Weld All Joints 100% & Grind Smooth

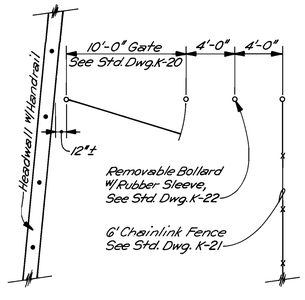
HANDRAIL DETAIL

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



MOUNTING DETAIL

NO SCALE



PLAN

GATE / BOLLARD DETAIL

NO SCALE

AS BUILT INFORMATION

CONTRACTOR Moore & Cowart
WORK STAKED BY A.A.&R. DATE 10/87
INSPECTOR'S ACCEPTANCE BY City DATE 10/87
FIELD ENGINEER'S VERIFICATION BY City & A.A.&R. DATE 10/87
DRAWINGS CORRECTED BY A.A.&R. DATE 10/87
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

ACS STA "12-E18 1978" ELEVATION 5337.039
ACS BRASS TABLET SET ON CONCRETE POST FLUSH W/GROUND LOCATED 41 FEET SOUTH OF THE CENTERLINE OF SAN ANTONIO DRIVE AND 34 FEET WEST OF THE CENTERLINE OF LOUISIANA BOULEVARD

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO JOHN A. ANDREWS

ANDREWS, ASBURY & ROBERT, INC. CONSULTING ENGINEERS N.E. ALBUQUERQUE, N.M.

NO.	DATE	REMARKS	BY

REVISIONS

		DATE
DESIGNED BY	JM	
DRAWN BY	PMD	DATE
CHECKED BY	JA	DATE

John A. Andrews
RECORD DRAWING
26 21511487

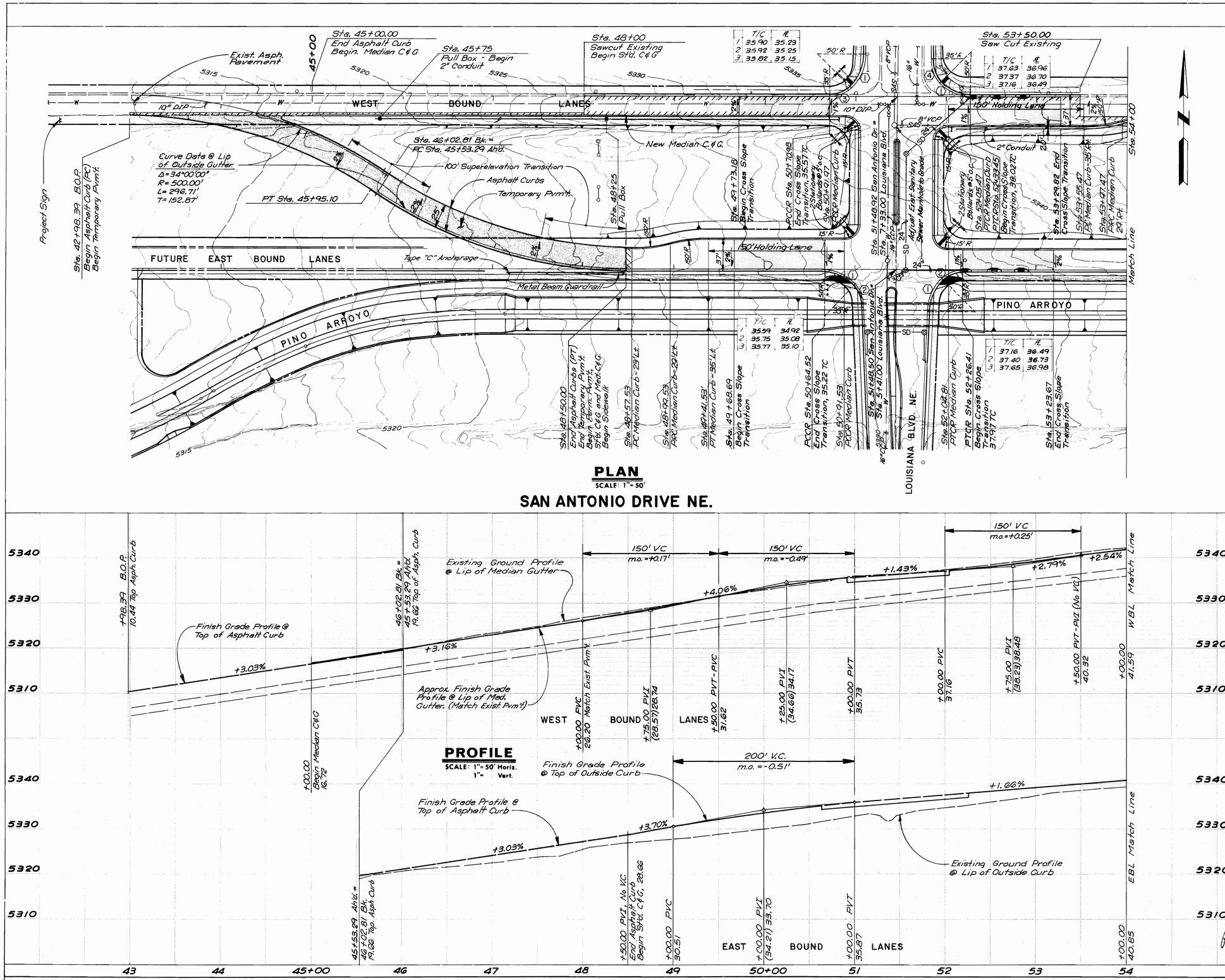
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

PINO ARROYO CORRIDOR IMPROVEMENTS

CHANNEL DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	[illegible]	11/20/84	Liquid Waste	N/A BR	1-31-86
A.C.E. - Design	[illegible]	1/31/86	Traffic	N/A DAP	1-31-86
~~A.C.E.~~ - Hydrology	R. K. Loyal	1-31-86	Water	N/A BR	1-31-86

DRAWING NO.	MAP NO.	SHEET	OF
2151	E-18, E-19	14	34



PLAN
SCALE: 1"= 50'

SAN ANTONIO DRIVE NE.

NOTES

1. SEE SHEET 20 FOR LOUISIANA BOULEVARD.
2. SEE SHEET 28 FOR STORM DRAIN & CATCH BASINS.
3. SEE SHEET 30 FOR WATERLINE.
4. SEE SHEET 23 FOR INTERSECTION STREET LIGHTING & SIGNALIZATION.
5. EXISTING POWERLINE IN EASTBOUND SAN ANTONIO DRIVE WILL BE RELOCATED BY OTHERS.

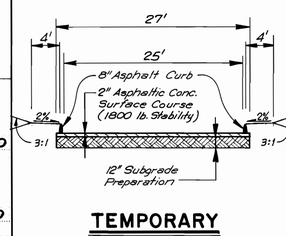
CURB RETURN CURVE DATA

① R = 50.00'
Δ = 42°50'00"
L = 37.38'
T = 19.61'

② R = 35.00'
Δ = 44°49'25"
L = 27.38'
T = 14.43'

③ R = 35.00'
Δ = 44°30'13"
L = 27.19'
T = 14.39'

④ R = 35.00'
Δ = 45°32'23"
L = 27.82'
T = 14.69'



TEMPORARY PAVEMENT SECTION
NO SCALE

RECORD DRAWING
26 2151 1587

AS BUILT INFORMATION
CONTRACTOR Moore & Cowart
WORK STAKED BY A.A.&R.
INSPECTOR'S ACCEPTANCE BY City DATE 10/87
FIELD VERIFICATION BY City & A.A.&R. DATE 10/87
DRAWINGS CORRECTED BY A.A.&R. DATE 10/87
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
ACS STA "12-E18 1978" ELEVATION 5337.039
ACS BRASS TABLET SET ON CONCRETE POST FLUSH W/GROUND LOCATED 41 FEET SOUTH OF THE CENTERLINE OF SAN ANTONIO DRIVE AND 34 FEET WEST OF THE CENTERLINE OF LOUISIANA BOULEVARD

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO JOHN A. ANDREWS No. 8001
ANDREWS, ASBURY & ROBERT, INC.
CONSULTING ENGINEERS
ALBUQUERQUE, N.M. 87111
78-138

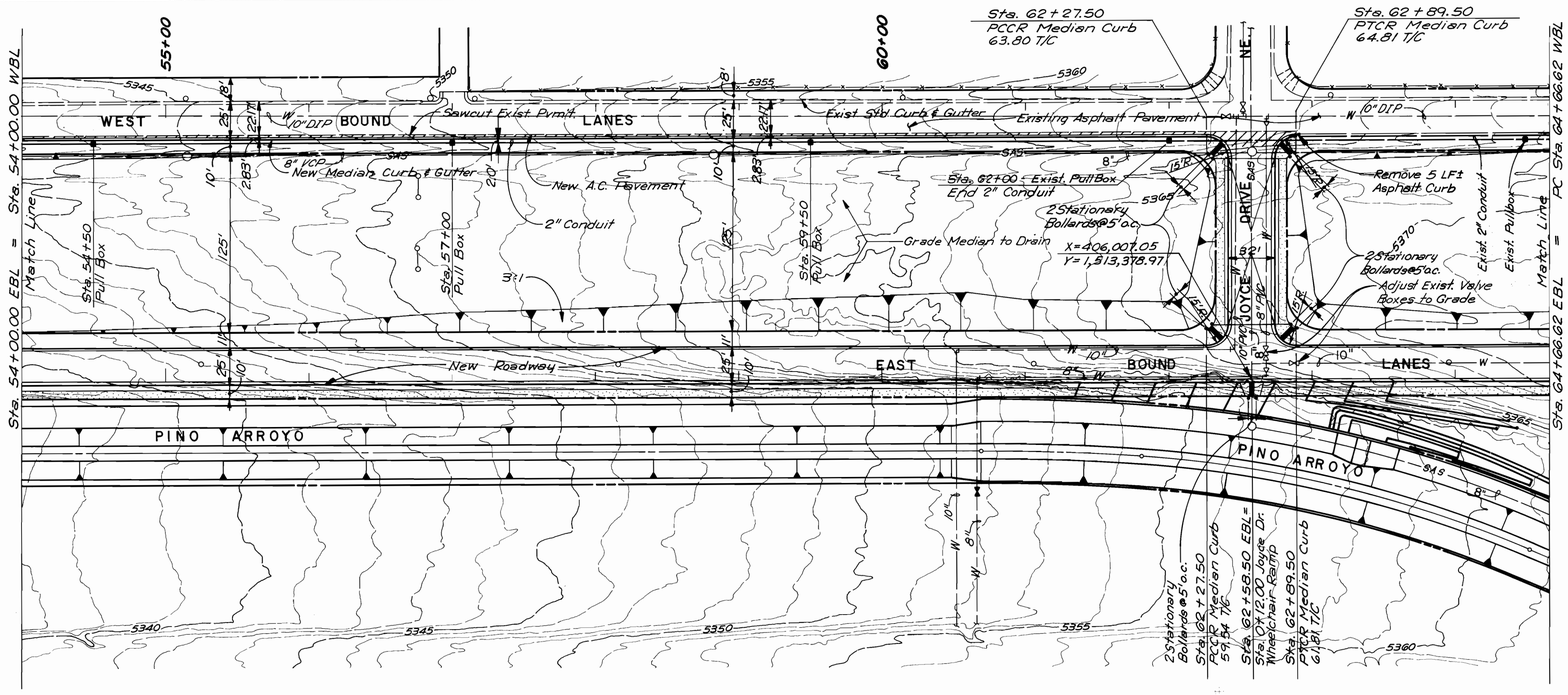
REVISIONS
NO. DATE REMARKS BY
DESIGN
DESIGNED BY DATE
DRAWN BY DATE
CHECKED BY DATE

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

PINO ARROYO CORRIDOR IMPROVEMENTS
SAN ANTONIO DRIVE NE.
PLAN & PROFILE – STA. 43+00 TO STA. 54+00

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	[illegible]	1/20/86	Liquid Waste	B. Rogers	1-31-86
A.C.E.-Design	[illegible]	1/31/86	Traffic	D.A. Parks	1-31-86
~~A.C.E.~~ -Hydrology	R.R. Chagal	N/A 1-31-86	Water	B. Rogers	1-31-86

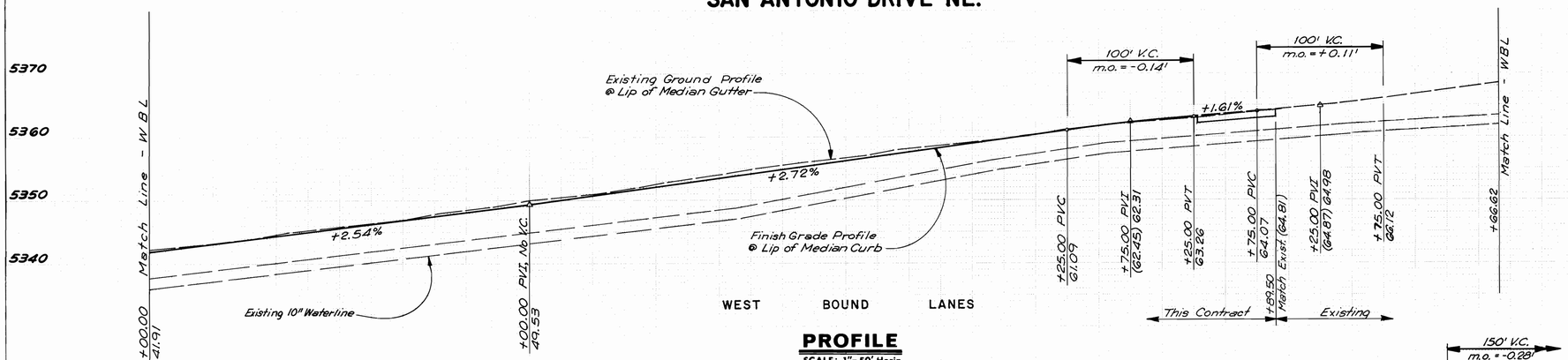
DRAWING NO.	MAP NO.	SHEET	OF
2151	E-18, E-19	15	34



PLAN

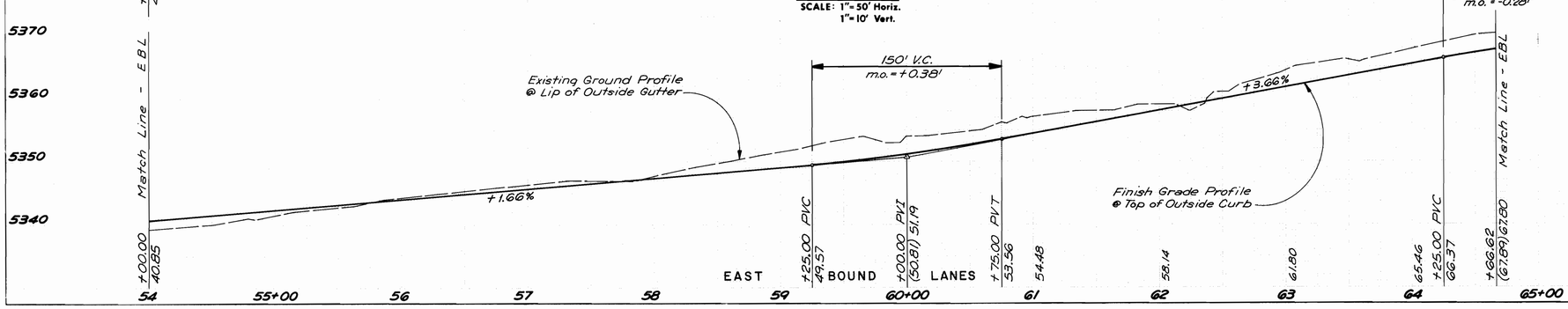
SCALE: 1" = 50'

SAN ANTONIO DRIVE NE.



PROFILE

SCALE: 1" = 50' Horiz.
1" = 10' Vert.



NOTES

1. SEE SHEET 19 FOR JOYCE DRIVE.
2. ~~SEE SHEET FOR SANITARY SEWER LINE.~~
3. EXISTING POWERLINE IN EASTBOUND SAN ANTONIO DRIVE WILL BE RELOCATED BY OTHERS.

AS BUILT INFORMATION
CONTRACTOR Moore & Cowart 1187-
WORK STAKED BY A.A.R. DATE 10/87
INSPECTED BY A.A.R. DATE 10/87
ACCEPTANCE BY City DATE 10/87
FIELD LOCATION BY City A.A.R. DATE 10/87
DRAWINGS CORRECTED BY A.A.R. DATE 10/87
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
ACS STA. "12-E18 1978" ELEVATION 5337.039
ACS BRASS TABLET SET ON CONCRETE POST FLUSH W/GROUND
LOCATED 41 FEET SOUTH OF THE CENTERLINE OF SAN ANTONIO
DRIVE AND 34 FEET WEST OF THE CENTERLINE OF LOUISIANA
BOULEVARD

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO JOHN A. ANDREWS 4236

ANDREWS, ASBURY & ROBERT, INC.
CONSULTING ENGINEERS
ALBUQUERQUE NEW MEXICO
78-138

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY DATE
DRAWN BY DATE
CHECKED BY DATE

26 21511687

John A. Andrews
RECORD DRAWING

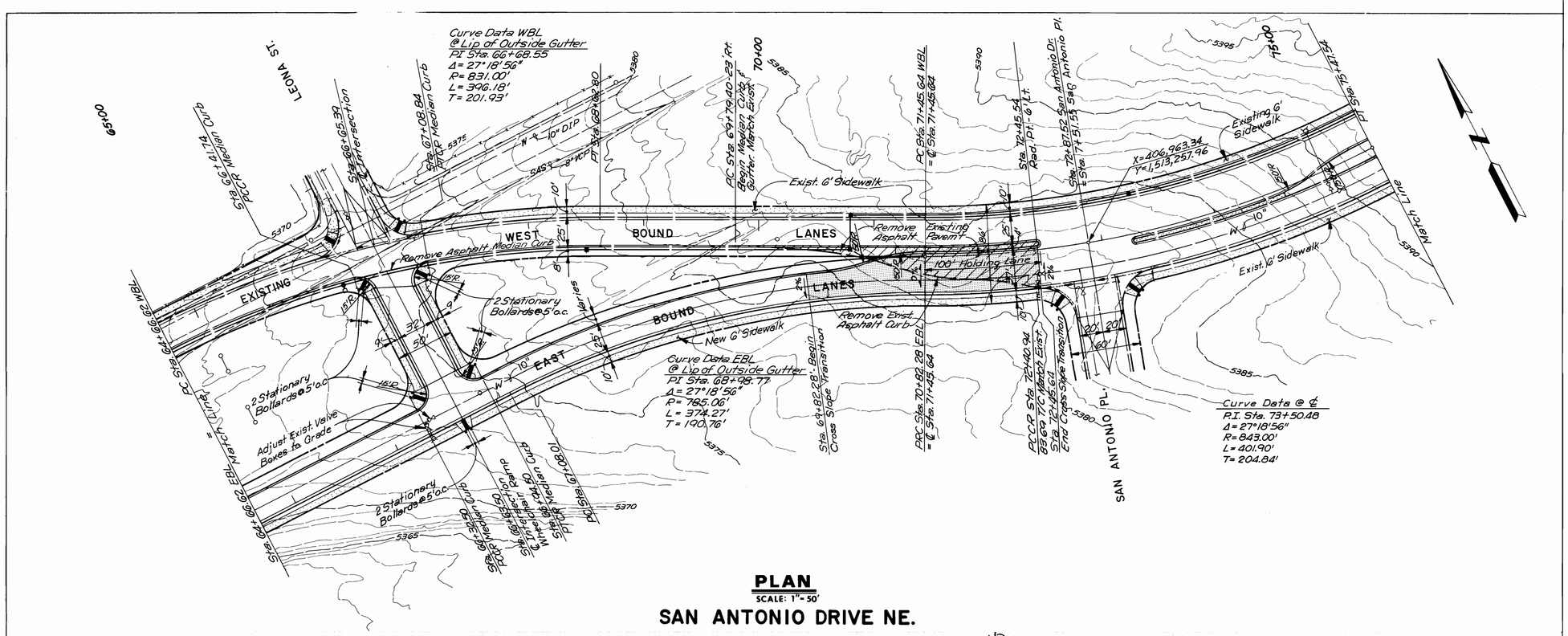
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

PINO ARROYO CORRIDOR IMPROVEMENTS

SAN ANTONIO DRIVE NE.
PLAN & PROFILE – STA. 54+00 TO STA. 64+66.02

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	[illegible]	11/20/84	Liquid Waste	B. Ryals	1-31-86
A C E - Design	[illegible]	1/31/86	Traffic	D.G. Parks	1-31-86
~~A C E~~ - Hydrology	R.K. Royal	N/A 1-31-86	Water	B. Ryals	1-31-86

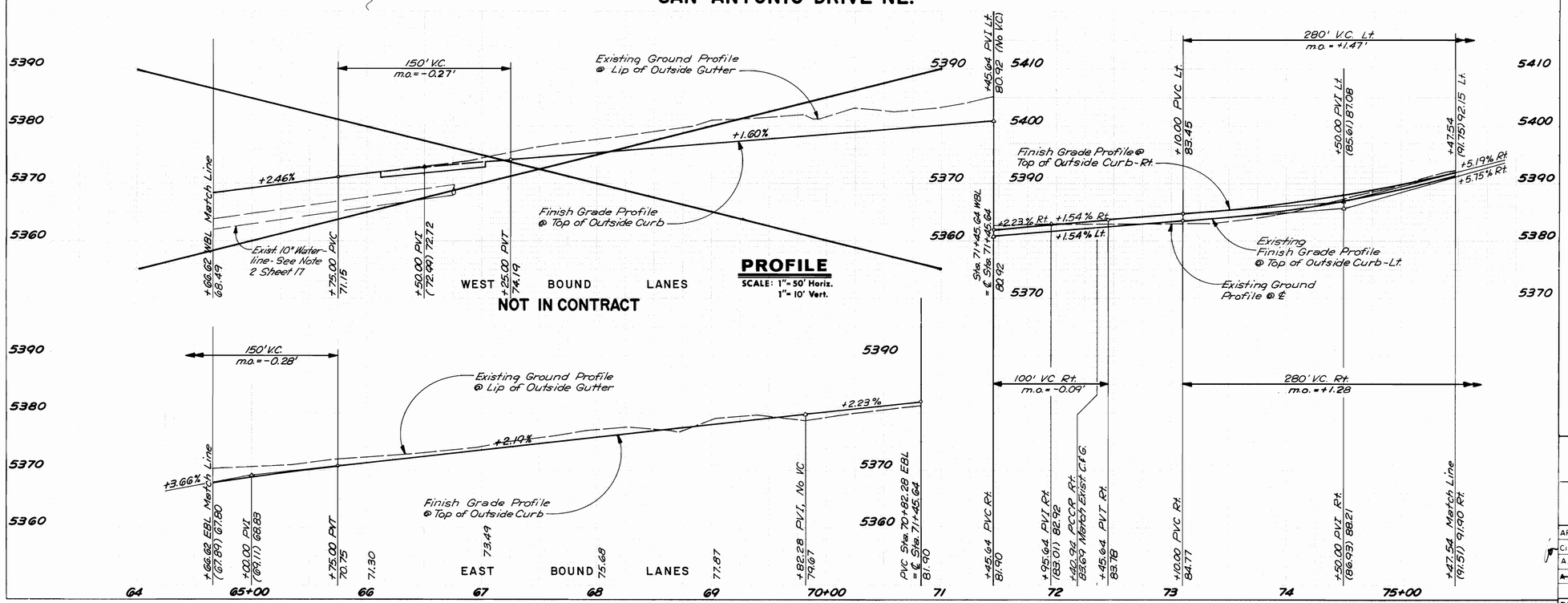
DRAWING NO.	MAP NO.	SHEET	OF
2151	E-18, E-19	16	34



PLAN

SCALE: 1" = 50'

SAN ANTONIO DRIVE NE.



CURB RETURN CURVE DATA

1. R = 30.00'
   Δ = 100°04'02"
   L = 52.40'
   T = 35.80'
2. R = 30.00'
   Δ = 73°39'15"
   L = 38.57'
   T = 22.47'
3. R = 30.00'
   Δ = 86°49'47"
   L = 45.46'
   T = 28.38'

SURVEY INFORMATION			BENCH MARKS		AS BUILT INFORMATION	
FIELD NOTES					CONTRACTOR Moore & Conart	1987
NO.	BY	DATE	ACS STA "12-E18 1978"	ELEVATION 5337.039	WORK STAKED BY M.A.A.K.R.	DATE 10/87
			ACS BRASS TABLET SET ON CONCRETE POST FLUSH W/GROUND		INSPECTED BY City	DATE 10/87
			LOCATED 41 FEET SOUTH OF THE CENTERLINE OF SAN ANTONIO		FIELD VERIFICATION BY City M.A.A.K.R.	DATE 10/87
			DRIVE AND 34 FEET WEST OF THE CENTERLINE OF LOUISIANA		DRAWINGS CORRECTED BY M.A.A.K.R.	DATE 10/87
			BOULEVARD		MICRO-FILM INFORMATION	
					RECORDED BY	DATE
					NO.	

ANDREWS, ASBURY & ROBERT, INC.
CONSULTING ENGINEERS
ALBUQUERQUE, NEW MEXICO
78-138

REGISTERED PROFESSIONAL ENGINEER
STATE OF NEW MEXICO
JOHN A. ANDREWS
No. 3268

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY — DATE
DRAWN BY — DATE
CHECKED BY — DATE

John A. Andrews
RECORD DRAWING
26 21511787

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

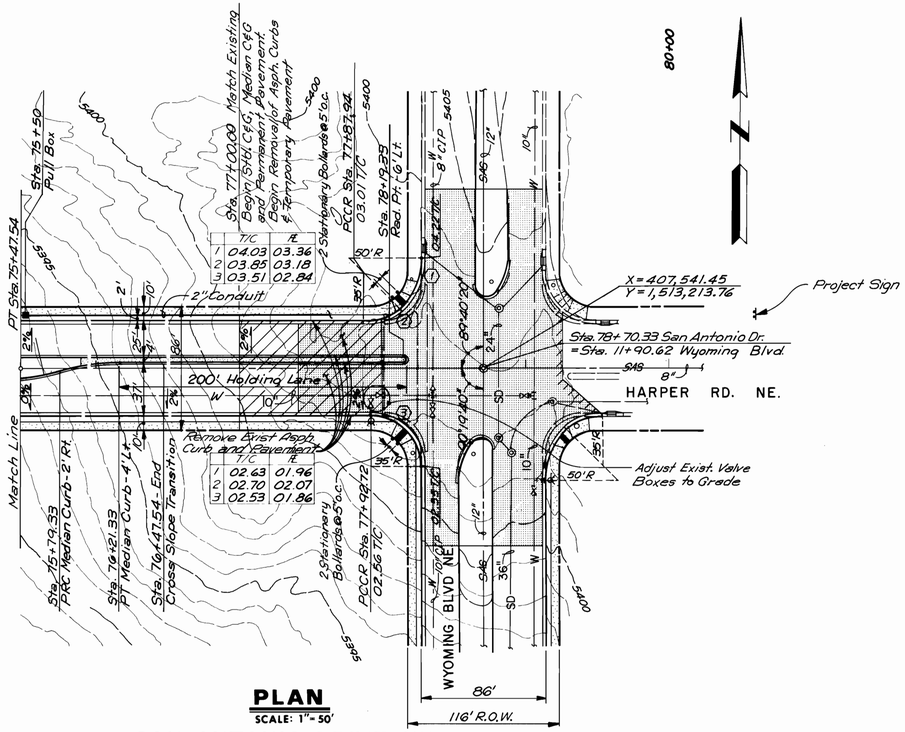
PINO ARROYO CORRIDOR IMPROVEMENTS

SAN ANTONIO DRIVE NE.

PLAN & PROFILE — STA. 64+66.62 TO STA. 75+47.54

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	[signature]	11/20/86	Liquid Waste	B. Ryals	1-31-86
A C E - Design	[signature]	1/31/86	Traffic	D.A. Parks	1-31-86
~~A C E~~ - Hydrology	K.K. Nagar N/A	1-31-86	Water	B. Ryals	1-31-86

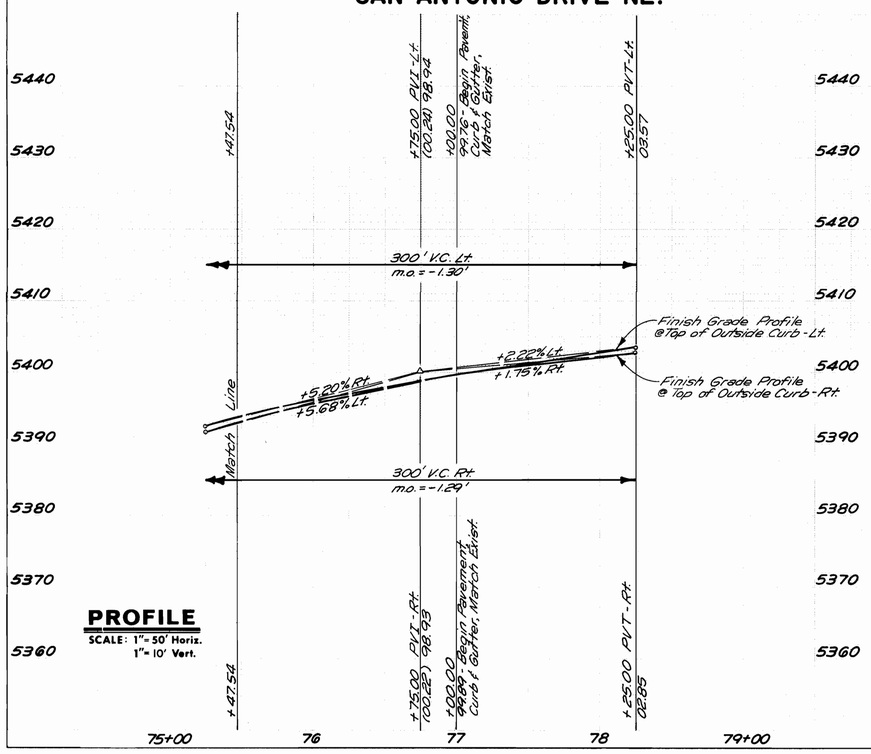
DRAWING NO.	MAP NO.	SHEET	OF
2151	E-18, E-19	17	34



PLAN

SCALE: 1" = 50'

SAN ANTONIO DRIVE NE.



PROFILE

SCALE: 1" = 50' Horiz.
1" = 10' Vert.

NOTES

1. SEE SHEET 22 FOR WYOMING BOULEVARD.
2. SEE SHEET 29 FOR STORM DRAIN & CATCH BASINS.
3. SEE SHEET 31 FOR WATERLINE.
4. SEE SHEET 24 FOR INTERSECTION STREET LIGHTING & SIGNALIZATION.

CURB RETURN CURVE DATA

(1) R = 50.00'
Δ = 52°50'00"
L = 37.38'
T = 19.61'

(2) R = 35.00'
Δ = 47°29'40"
L = 29.01'
T = 15.40'

(3) R = 35.00'
Δ = 89°40'20"
L = 54.78'
T = 34.80'

AS BUILT INFORMATION

CONTRACTOR Moore & Cowart 11/87
WORK STAKED BY A.A.&R. DATE 10/87
ACCEPTANCE BY CITY DATE 12/87
FIELD VERIFICATION BY CITY A.A.&R. DATE 12/87
DRAWINGS CORRECTED BY A.A.&R. DATE 12/87
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

ACS STA "12-E18 1978" ELEVATION 5337.039
ACS BRASS TABLET SET ON CONCRETE POST FLUSH W/GROUND LOCATED 41 FEET SOUTH OF THE CENTERLINE OF SAN ANTONIO DRIVE AND 34 FEET WEST OF THE CENTERLINE OF LOUISIANA BOULEVARD

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO NO. 8280 JOHN A. ANDREWS

ANDREWS, ASBURY & ROBERT, INC.
CONSULTING ENGINEERS
ALBUQUERQUE 78-138 NEW MEXICO

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN

DESIGNED BY DATE
DRAWN BY DATE
CHECKED BY DATE

John A. Andrews
RECORD DRAWING
26 21511887

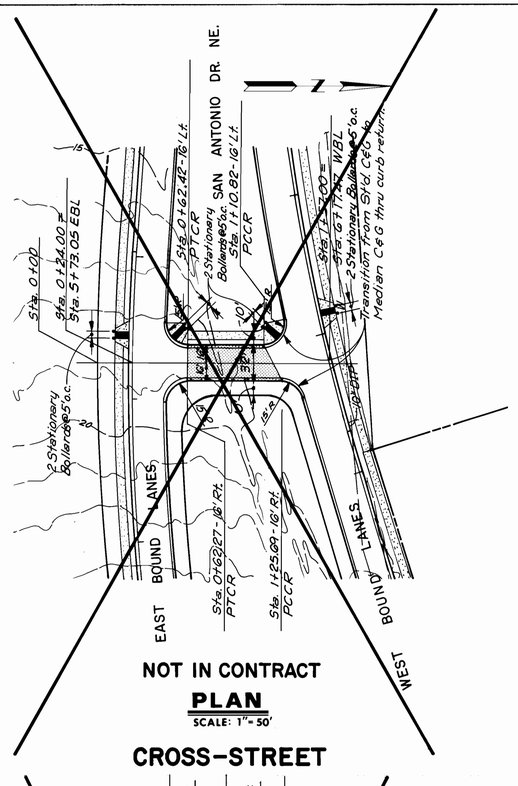
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

PINO ARROYO CORRIDOR IMPROVEMENTS

SAN ANTONIO DRIVE NE.
PLAN & PROFILE - STA. 75+47.54 TO EOP

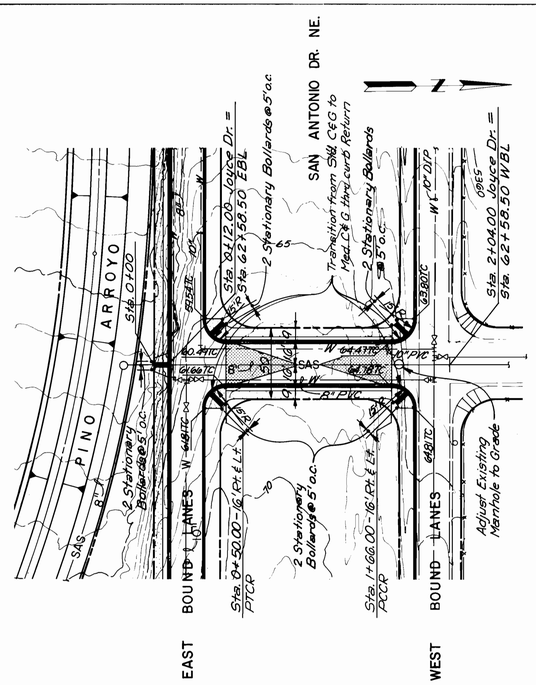
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	[illegible]	11/20/86	Liquid Waste	B. Rydal	1-31-86
A.C.E. - Design	[illegible]	1/31/86	Traffic	D.A. Tarbe	1-31-86
~~A.C.E.~~ - Hydrology	R.K. Hayes	1-31-86	Water	B. Rydal	1-31-86

DRAWING NO.	MAP NO.	SHEET	OF
2151	E-18, E-19	18	34

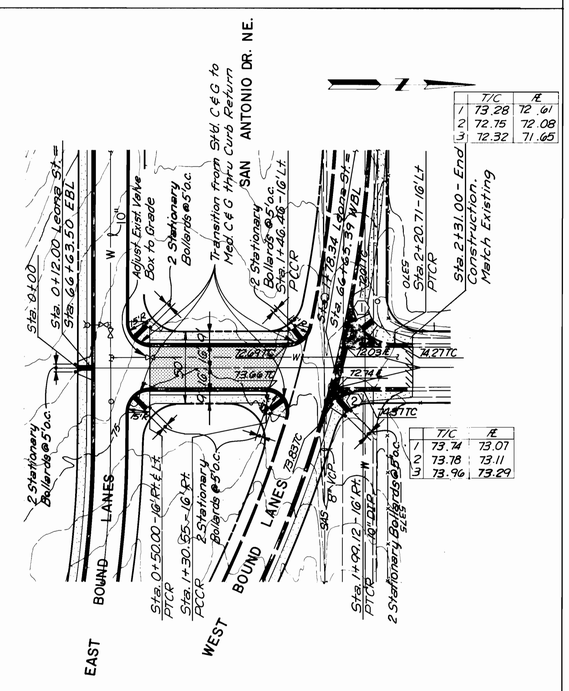


NOT IN CONTRACT

PLAN
SCALE: 1"=50'



PLAN
SCALE: 1"=50'

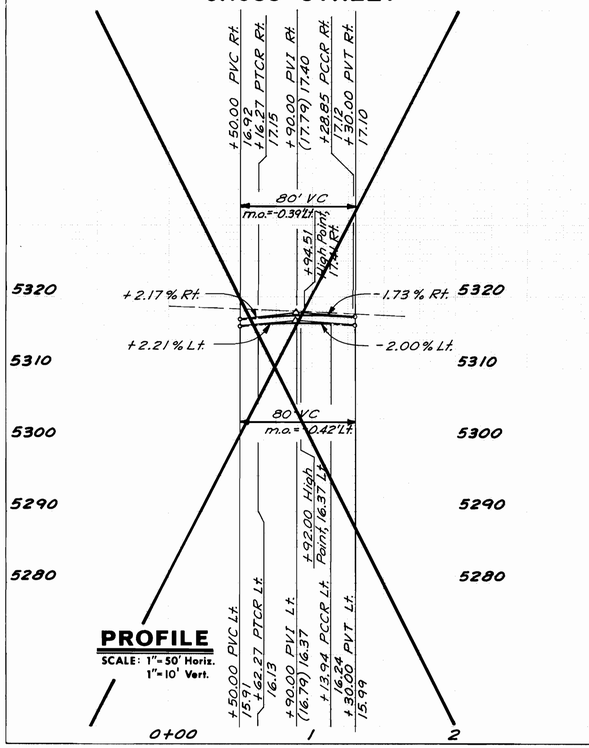


	T/C	Æ
1	73.28	72.61
2	72.75	72.08
3	72.32	71.65

	T/C	Æ
1	73.74	73.07
2	73.78	73.11
3	73.96	73.29

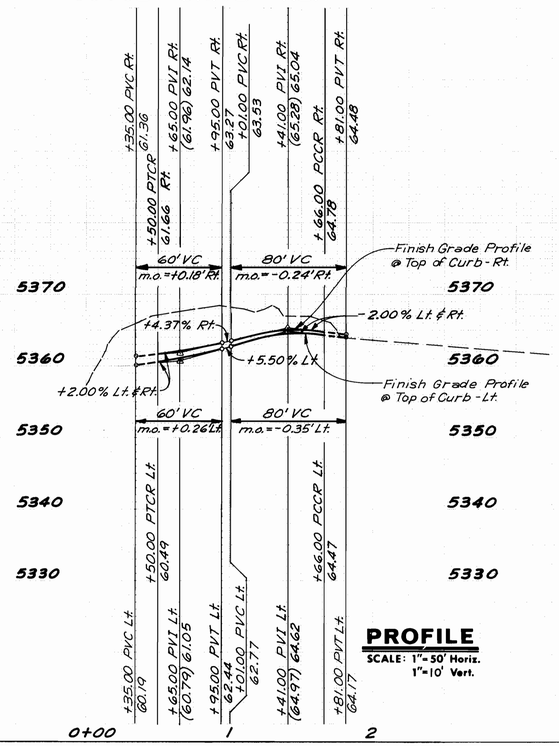
PLAN
SCALE: 1"=50'

CROSS-STREET



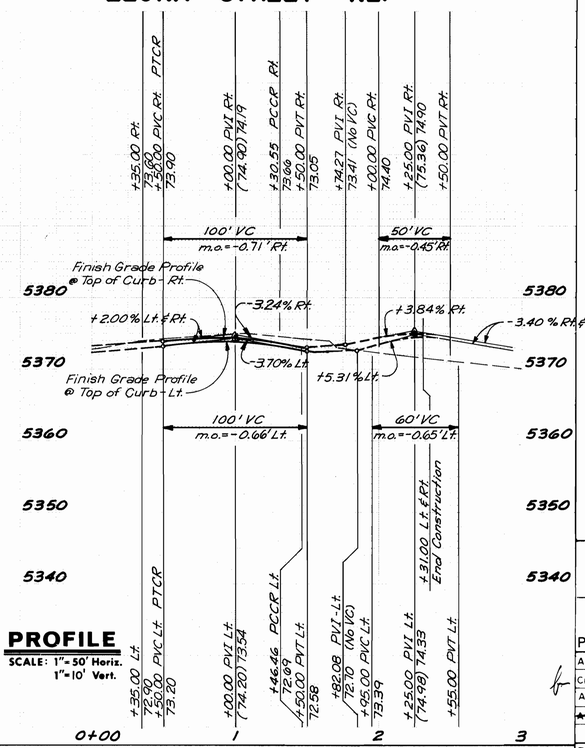
PROFILE
SCALE: 1"=50' Horiz.
1"=10' Vert.

JOYCE DRIVE NE.



PROFILE
SCALE: 1"=50' Horiz.
1"=10' Vert.

LEONA STREET NE.



PROFILE
SCALE: 1"=50' Horiz.
1"=10' Vert.

NOTES

1. ~~SEE SHEET 4 FOR JOYCE DR. SANITARY SEWER LINE.~~
2. ~~SEE SHEET 45 FOR SAN ANTONIO DR. WATERLINE.~~

CURB RETURN CURVE DATA

(1) R = 30.00'
Δ = 100°04'08"
L = 52.40'
T = 35.80'

(2) R = 30.00'
Δ = 73°39'15"
L = 38.57'
T = 22.47'

SURVEY INFORMATION			BENCH MARKS	AS BUILT INFORMATION
FIELD NOTES				CONTRACTOR Moore & Conant 187-0187
NO.	BY	DATE	ACS STA "12-E18 1978" ELEVATION 5337.039	WORK STAKED BY A.A.K.R. DATE 10/87
			ACS BRASS TABLET SET ON CONCRETE POST FLUSH W/GROUND	AS-BUILT CHANGE BY City DATE 10/87
			LOCATED 41 FEET SOUTH OF THE CENTERLINE OF SAN ANTONIO	FIELD VERIFICATION BY City K.P.A.R.K. DATE 10/87
			DRIVE AND 34 FEET WEST OF THE CENTERLINE OF LOUISIANA	DRAWINGS CORRECTED BY A.E.K.R. DATE 10/87
			BOULEVARD	MICRO-FILM INFORMATION
				RECORDED BY DATE
				NO

ENGINEER'S SEAL

REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO JOHN A. ANDREWS

ANDREWS, ASBURY & ROBERT, INC.
CONSULTING ENGINEERS
ALBUQUERQUE 78-138 NEW MEXICO

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY RF DATE Dec. 1984
DRAWN BY JCS PMO DATE Dec. 1984
CHECKED BY RF JA DATE Dec. 1984

John A. Andrews
RECORD DRAWING
2G 21511987

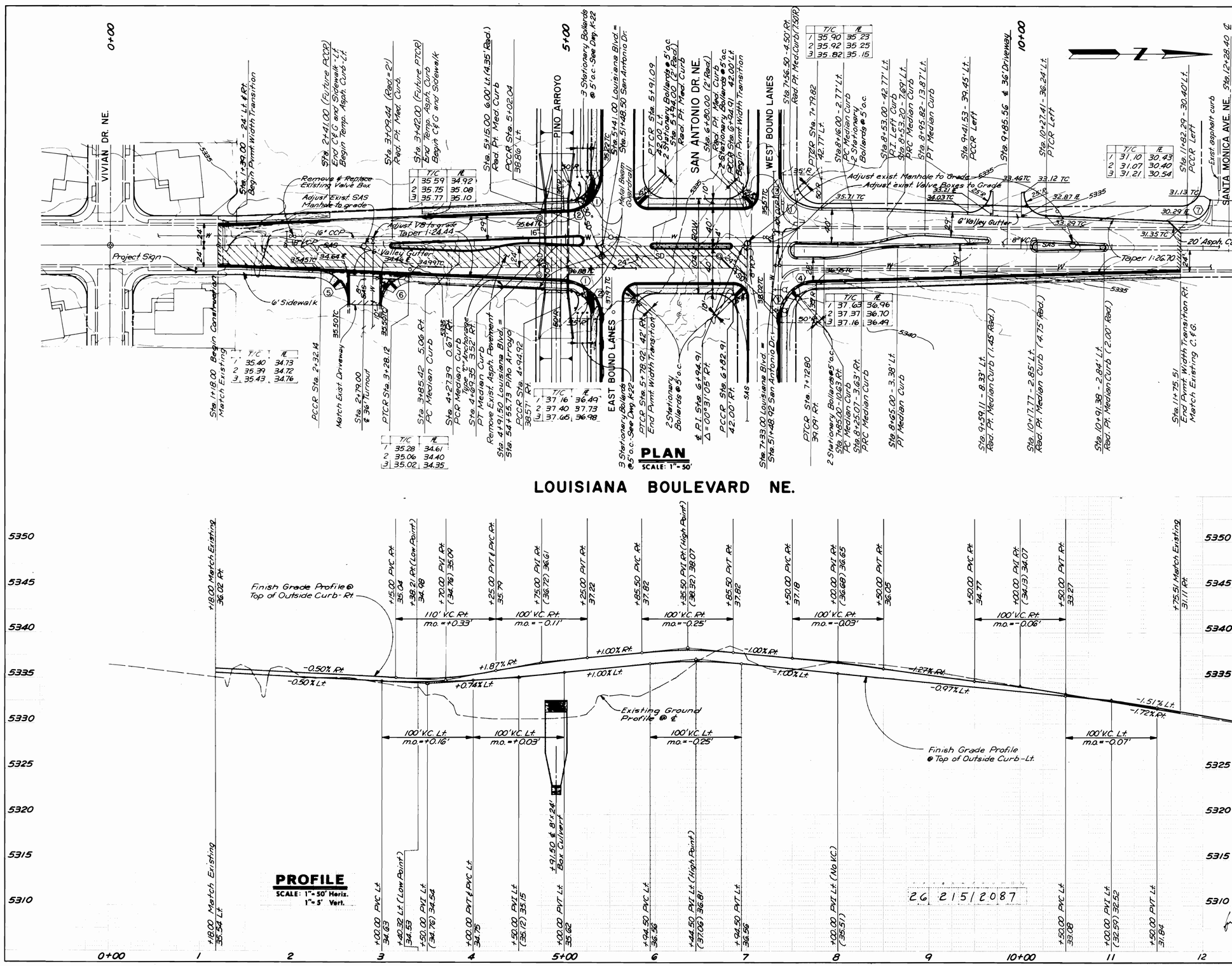
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

PINO ARROYO CORRIDOR IMPROVEMENTS

SAN ANTONIO DRIVE NE.
PLAN & PROFILE-CROSS-STREET, JOYCE DR. NE. & LEONA ST. NE.

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	[illegible]	11/20/86	Liquid Waste	B. Robert	1-31-86
A.C.E. - Design	[illegible]	1/31/86	Traffic	B.A. Pardo	1-31-86
~~A.C.E.~~ - Hydrology	R.K. Loyal	N/A 1-31-86	Water	B. Robert	1-31-86

DRAWING NO.	MAP NO.	SHEET	OF
2151	E-18, E-19	19	34



NOTES

1. SEE SHEET 15 FOR SAN ANTONIO DRIVE.
2. SEE SHEET 28 FOR STORM DRAIN & CATCH BASINS.
3. SEE SHEET 30 FOR WATERLINE.
4. SEE SHEET 23 FOR INTERSECTION STREET LIGHTING & SIGNALIZATION.
5. EXISTING POWERLINE TO BE RELOCATED BY OTHERS.

CURB RETURN CURVE DATA

1	R = 50.00'	Δ = 42°50'00"
	L = 37.38'	T = 19.61'
2	R = 35.00'	Δ = 44°49'25"
	L = 27.38'	T = 14.43'
3	R = 35.00'	Δ = 46°57'19"
	L = 28.68'	T = 15.20'
4	R = 35.00'	Δ = 45°32'23"
	L = 27.82'	T = 14.69'
5	R = 30.00'	Δ = 87°50'24"
	L = 45.99'	T = 28.89'
6	R = 30.00'	Δ = 92°09'36"
	L = 48.25'	T = 31.15'
7	R = 25.00'	Δ = 92°19'30"
	L = 40.28'	T = 26.04'
8	R = 25.00'	Δ = 87°40'30"
	L = 38.26'	T = 24.01'

RECORD DRAWING

AS BUILT INFORMATION
CONTRACTOR Moore & Convert
WORK STAKED BY A.A.&R. 11/87 DATE 11/87
WORK STAKED BY CITY DATE 11/87
ACCEPTANCE BY CITY DATE 11/87
FIELD VERIFICATION BY CITY A.A.&R. DATE 12/87
DRAWINGS CORRECTED BY A.A.&R. DATE 12/87
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS
ACS STA "12-E18 1978" ELEVATION 5337.039
ACS BRASS TABLET SET ON CONCRETE POST FLUSH W/GROUND LOCATED 41 FEET SOUTH OF THE CENTERLINE OF SAN ANTONIO DRIVE AND 34 FEET WEST OF THE CENTERLINE OF LOUISIANA BOULEVARD

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
PROFESSIONAL ENGINEER STATE OF NEW MEXICO 8208 REGISTERED
ANDREWS, ASBURY & ROBERT, INC. CONSULTING ENGINEERS ALBUQUERQUE, NEW MEXICO 78-138

NO.	DATE	REMARKS	BY
1	9-87	REVISIONS	

DESIGN
DESIGNED BY R.F. DATE Dec. 1984
DRAWN BY PMO JCS DATE Dec. 1984
CHECKED BY RF JA DATE Dec. 1984

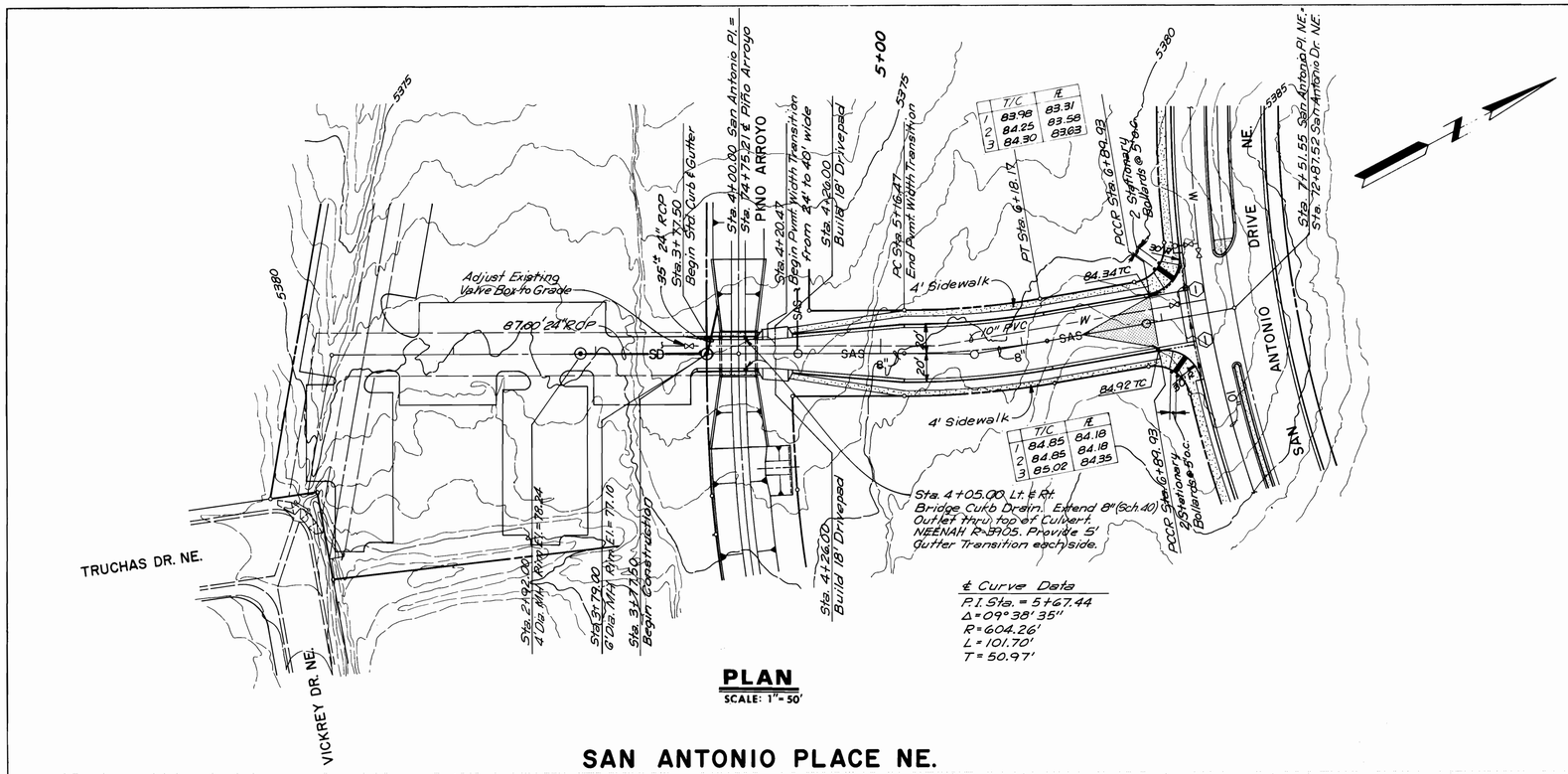
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

PINO ARROYO CORRIDOR IMPROVEMENTS

LOUISIANA BOULEVARD NE.
PLAN & PROFILE

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	[illegible]	1/30/86	Liquid Waste	B. Rabe	1-31-86
A.C.E.-Design	[illegible]	1/31/86	Traffic	J. A. Parker	1-31-86
~~A.C.E.~~-Hydrology	[illegible]	1-31-86	Water	B. Rabe	1-31-86

DRAWING NO.	MAP NO.	SHEET	OF
2151	E-18, E-19	20	34



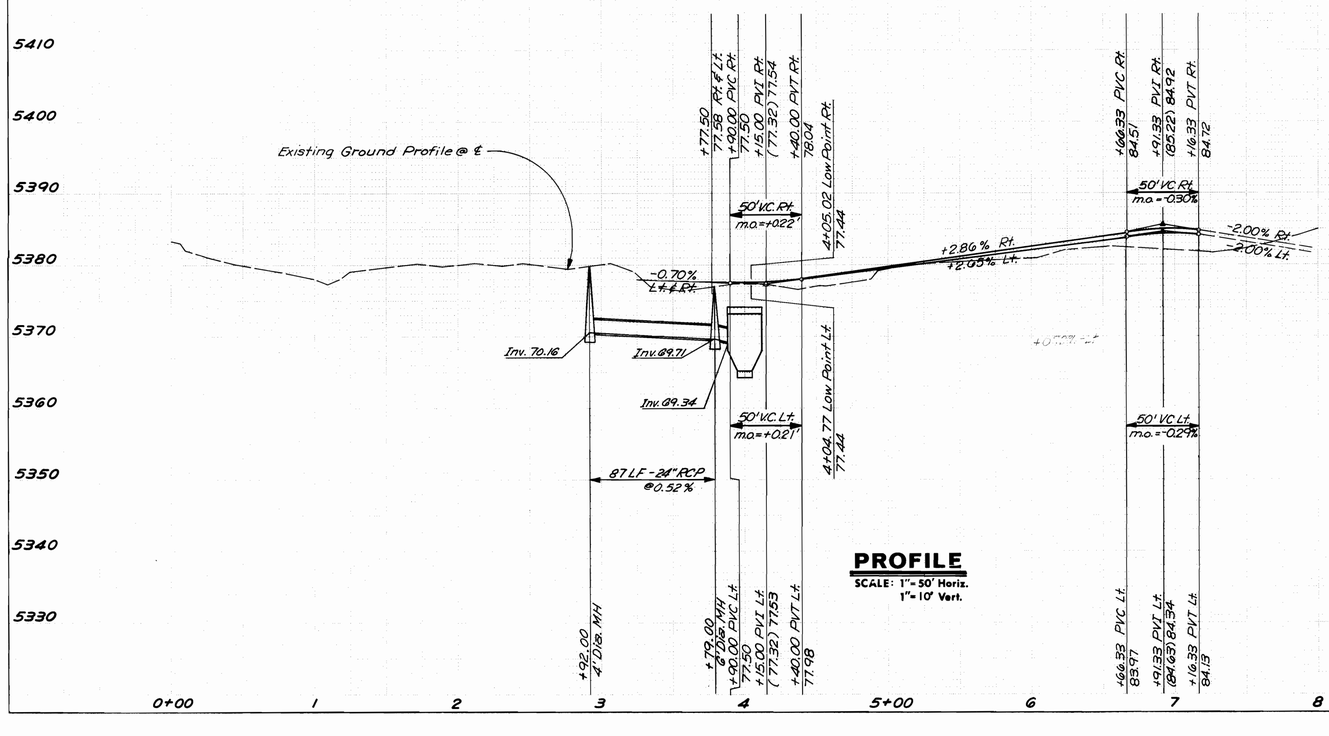
	T/C	ft
1	83.98	83.31
2	84.25	83.58
3	84.90	83.63

	T/C	ft
1	84.85	84.18
2	84.85	84.18
3	85.02	84.35

℄ Curve Data
P.I. Sta. = 5+67.44
Δ = 09° 38' 35"
R = 604.26'
L = 101.70'
T = 50.97'

PLAN
SCALE: 1" = 50'

SAN ANTONIO PLACE NE.



PROFILE
SCALE: 1" = 50' Horiz.
1" = 10' Vert.

NOTES

1. SEE SHEET 17 FOR SAN ANTONIO DRIVE.

~~2. SEE SHEET FOR SANITARY SEWER LINE.~~

CURB RETURN CURVE DATA

(1) R = 30.00'
Δ = 86°49'47"
L = 45.46'
T = 28.38'

AS BUILT INFORMATION

CONTRACTOR Moore & Cowart 1/87
WORK STAKED BY A.A.K.R. DATE 10/87
INSPECTED BY
ACCEPTANCE BY City DATE 10/87
FIELD LOCATION BY City & A.A.K.R. DATE 10/87
DRAWINGS CORRECTED BY A.A.K.R. DATE 10/87
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

ACS STA "12-E18 1978" ELEVATION 5337.039
ACS BRASS TABLET SET ON CONCRETE POST FLUSH W/GROUND LOCATED 41 FEET SOUTH OF THE CENTERLINE OF SAN ANTONIO DRIVE AND 34 FEET WEST OF THE CENTERLINE OF LOUISIANA BOULEVARD.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO JOHN A. ANDREWS 5960

ANDREWS, ASBURY & ROBERT, INC.
CONSULTING ENGINEERS
ALBUQUERQUE NEW MEXICO 78-138

NO.	DATE	REMARKS	BY

REVISIONS

		DATE
DESIGNED BY	RSF	
DRAWN BY	PMO	
CHECKED BY	JA	

John A. Andrews
RECORD DRAWING
26 21512187

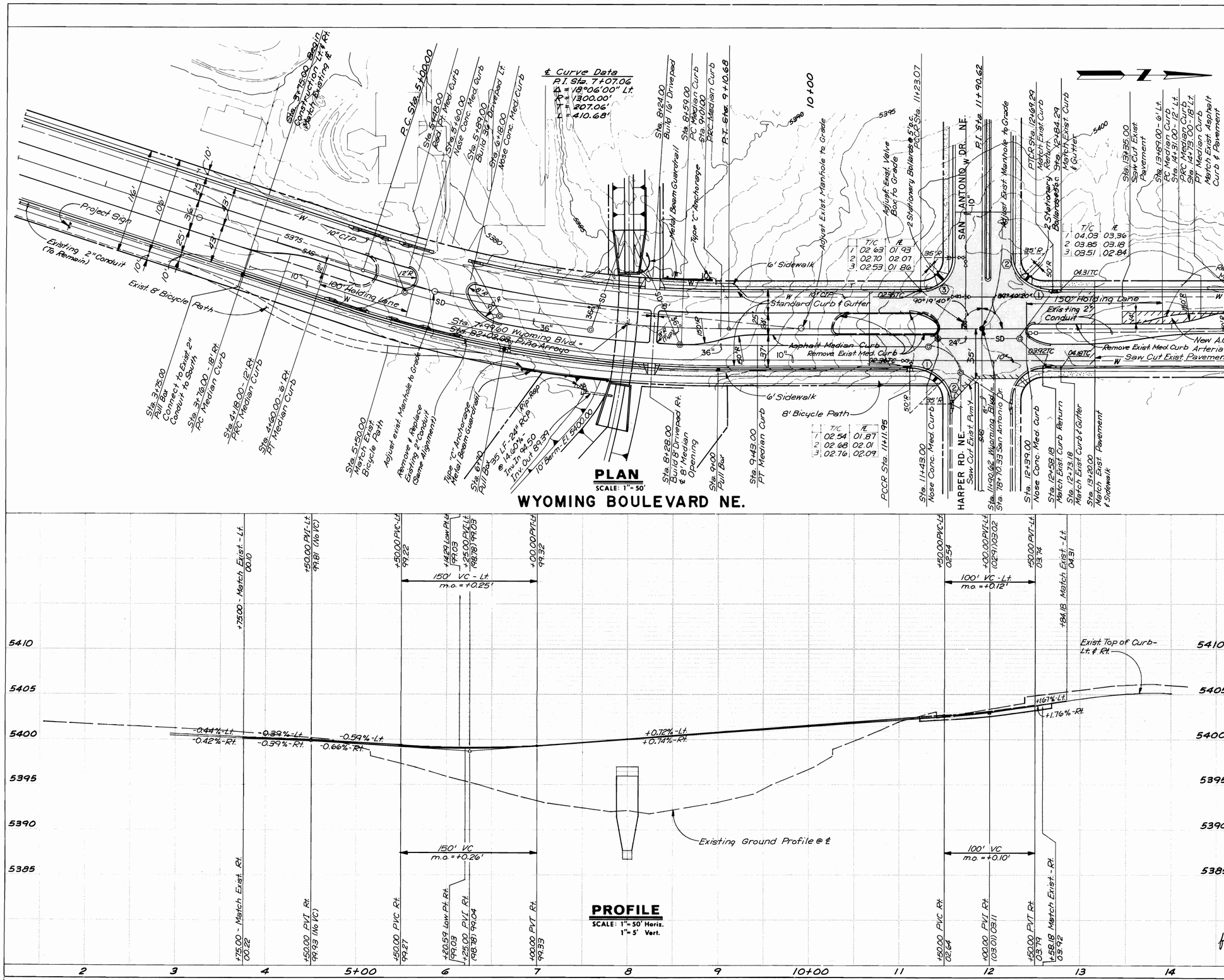
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

PINO ARROYO CORRIDOR IMPROVEMENTS

SAN ANTONIO PLACE NE.
PLAN & PROFILE

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	[signature]	11/20/86	Liquid Waste	B. Rigdon	1-31-86
A.C.E. - Design	[signature]	1/3/86	Traffic	D. A. Perkes	1-31-86
~~A.C.E.~~ - Hydrology	K. K. Lagal	1-3-86	Water	B. Rigdon	1-31-86

DRAWING NO.	MAP NO.	SHEET	OF
2151	E-18, E-19	21	34



NOTES

1. SEE SHEET 18 FOR SAN ANTONIO DRIVE.
2. SEE SHEET 32 FOR STORM DRAIN & CATCH BASINS.
3. SEE SHEET 31 FOR WATERLINE & SANITARY SEWER LINE.
4. SEE SHEET 24 FOR INTERSECTION STREET LIGHTING & SIGNALIZATION.

CURB RETURN CURVE DATA

(1) R = 50.00'
Δ = 42°50'00"
L = 37.38'
T = 19.61'

(2) R = 35.00'
Δ = 47°29'40"
L = 29.01'
T = 15.40'

(3) R = 35.00'
Δ = 89°40'20"
L = 54.78'
T = 34.80'

RECORD DRAWING

26 21512287

AS BUILT INFORMATION

CONTRACTOR Moore & Cowart
WORK STAKED BY A.A.K.R. DATE 1/87
INSPECTOR'S ACCEPTANCE BY City DATE 10/87
VERIFICATION BY City & A.A.K.R. DATE 10/87
DRAWINGS REVISED BY A.A.K.R. DATE 10/87
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS

ACS STA "12-E18 1978" ELEVATION 5337.039
ACS BRASS TABLET SET ON CONCRETE POST FLUSH W/GROUND
LOCATED 41 FEET SOUTH OF THE CENTERLINE OF SAN ANTONIO DRIVE AND 34 FEET WEST OF THE CENTERLINE OF LOUISIANA BOULEVARD

SURVEY INFORMATION

FIELD NOTES

NO	BY	DATE

ENGINEER'S SEAL

REGISTERED PROFESSIONAL ENGINEER — STATE OF NEW MEXICO — JOHN A. ANDREWS

ANDREWS, ASBURY & ROBERT, INC.
CONSULTING ENGINEERS
ALBUQUERQUE NEW MEXICO
78-138

NO	DATE	REMARKS	BY

REVISIONS

DESIGN

DESIGNED BY DATE
DRAWN BY DATE
CHECKED BY DATE

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

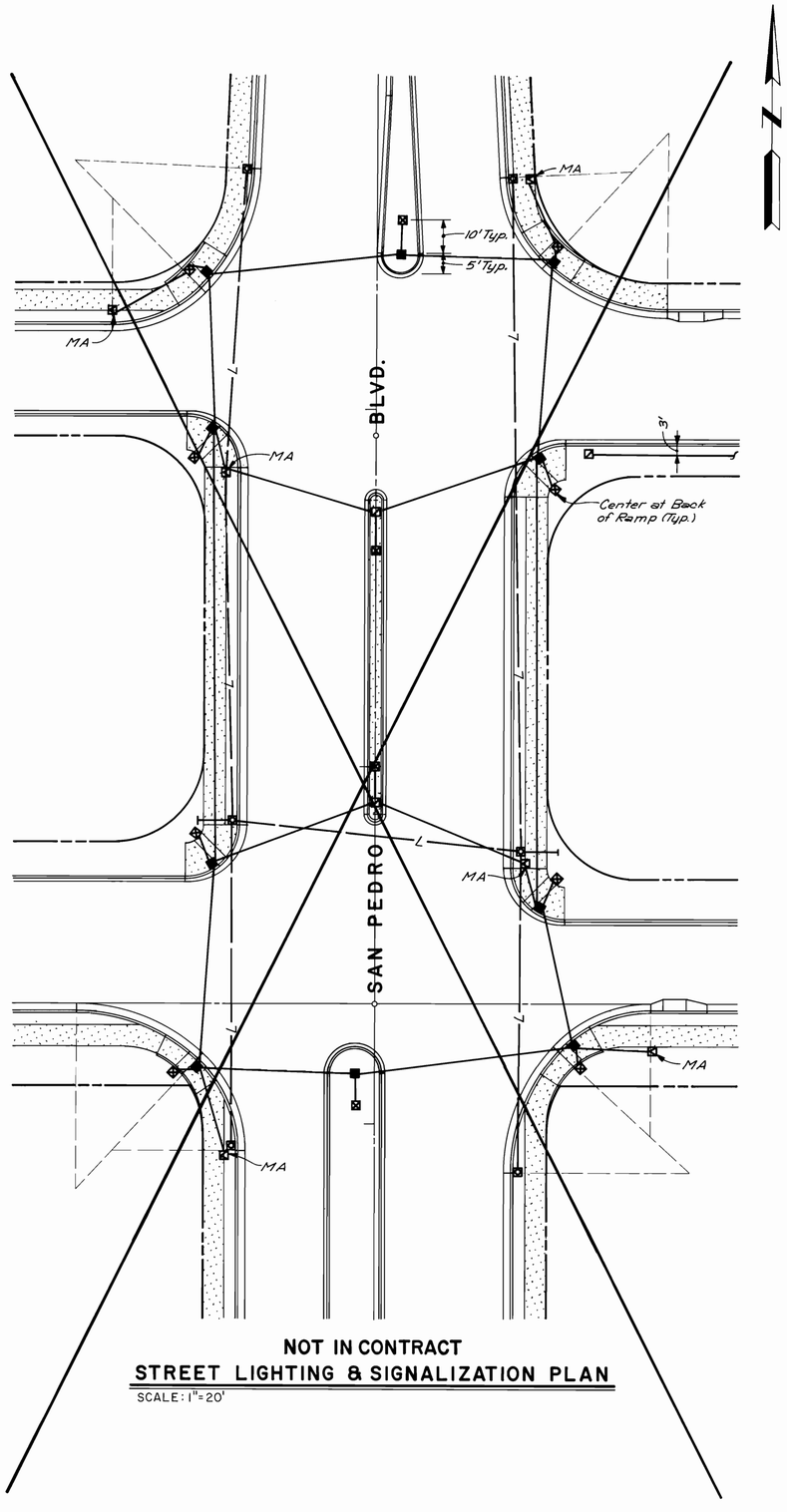
PINO ARROYO CORRIDOR IMPROVEMENTS

WYOMING BOULEVARD NE.

PLAN & PROFILE

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer		1/20/86	Liquid Waste	B. Kogal	1-31-86
A C E - Design		1/31/86	Traffic	D. A. Parks	1-31-86
~~A C E~~ - Hydrology	R. K. Kogal	1-31-86	Water	B. Kogal	1-31-86

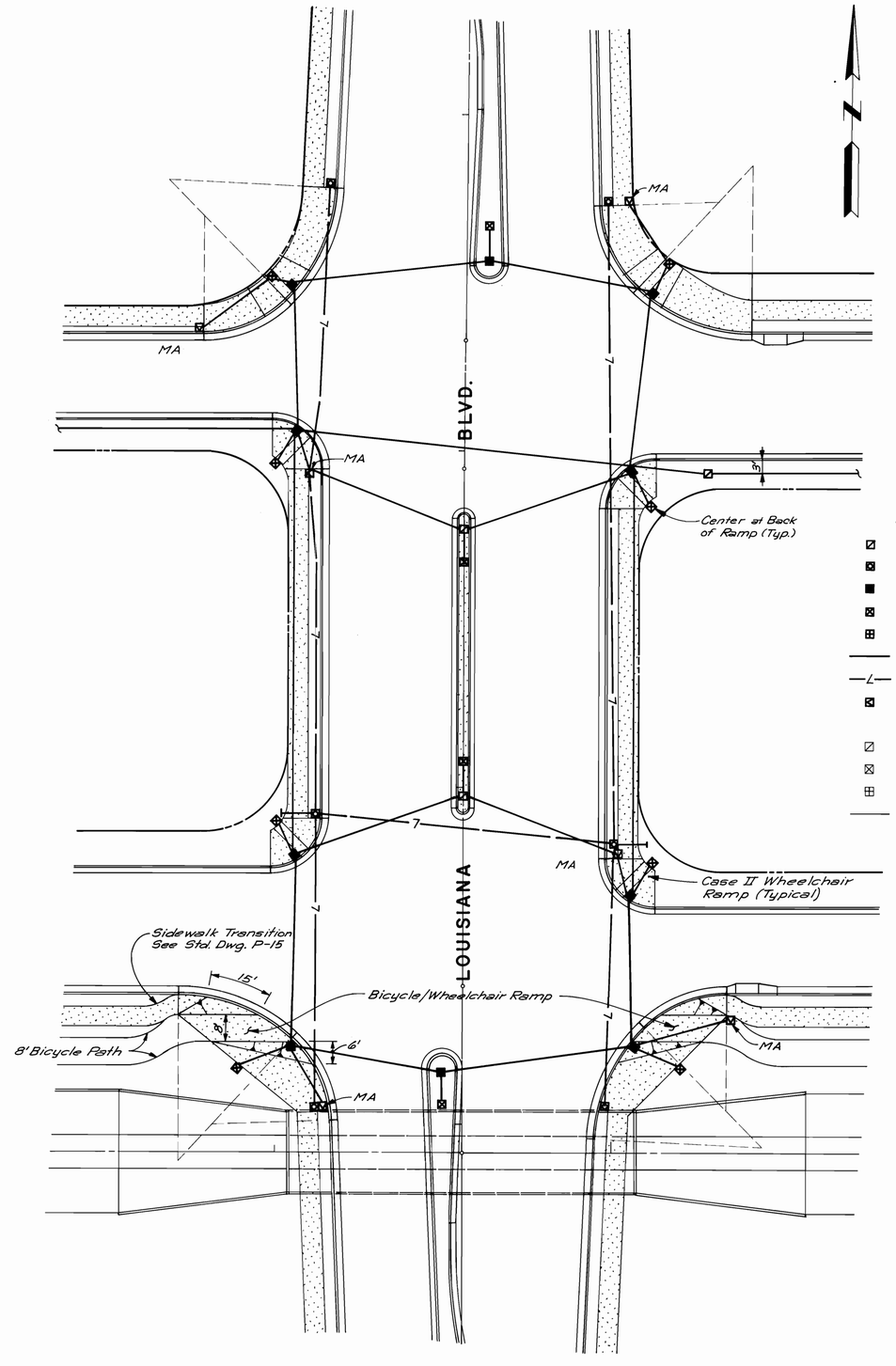
DRAWING NO.	MAP NO.	SHEET	OF
2151	E-18, E-19	22	34



NOT IN CONTRACT

STREET LIGHTING & SIGNALIZATION PLAN

SCALE: 1"=20'



STREET LIGHTING & SIGNALIZATION PLAN

SCALE: 1"=20'

LEGEND

- NEW PULLBOX
- NEW PULL BOX LIGHTING
- NEW LARGE PULL BOX - SEE DETAIL SHEET 31.
- NEW PEDESTAL SIGNAL FOUNDATION, TYPE I
- NEW PEDESTAL CONTROLLER FOUNDATION, TYPE II
- NEW SIGNAL CONDUIT (2" UNLESS OTHERWISE SHOWN)
- NEW LIGHTING CONDUIT, 2"
- NEW MAST ARM FOUNDATION, TYPE II
- EXISTING PULLBOX
- EXISTING PEDESTAL SIGNAL FOUNDATION, TYPE I
- EXISTING PEDESTAL CONTROLLER FOUNDATION, TYPE II
- EXISTING SIGNAL CONDUIT

AS BUILT INFORMATION

CONTRACTOR Moore & Conert

WORK INSPECTED BY A.A.&R. DATE 10/87

INSPECTORS ACCEPTANCE BY City DATE 10/87

FIELD VERIFICATION BY City A.A.&R. DATE 10/87

CORRECTIONS MADE BY A.A.&R. DATE 10/87

MICRO-FILM INFORMATION

RECORDED BY DATE

NO

BENCH MARKS

ACS STA "12-E18 1978" ELEVATION 5337.039

ACS BRASS TABLET SET ON CONCRETE POST FLUSH W/GROUND LOCATED 41 FEET SOUTH OF THE CENTERLINE OF SAN ANTONIO DRIVE AND 34 FEET WEST OF THE CENTERLINE OF LOUISIANA BOULEVARD

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

REGISTERED PROFESSIONAL ENGINEER JOHN A. ANDREWS STATE OF NEW MEXICO 3990

ANDREWS, ASBURY & ROBERT, INC. CONSULTING ENGINEERS 78-138 ALBUQUERQUE, NEW MEXICO

REVISIONS

NO.	DATE	REMARKS	BY

DESIGN

DESIGNED BY DATE

DRAWN BY DATE

CHECKED BY DATE

John A. Andrews

RECORD DRAWING

26 21512387

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

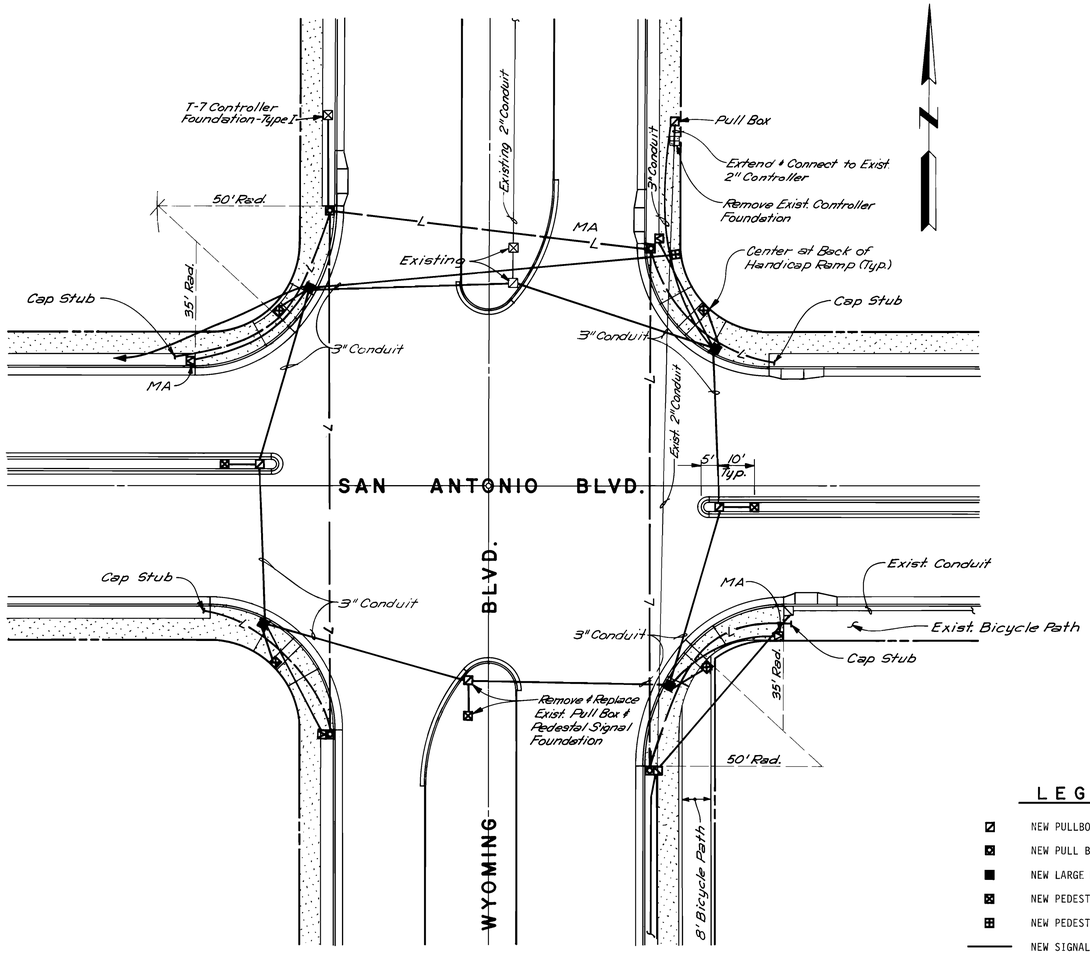
PINO ARROYO CORRIDOR IMPROVEMENTS

SAN ANTONIO DRIVE NE.

STREET LIGHTING & SIGNALIZATION PLANS

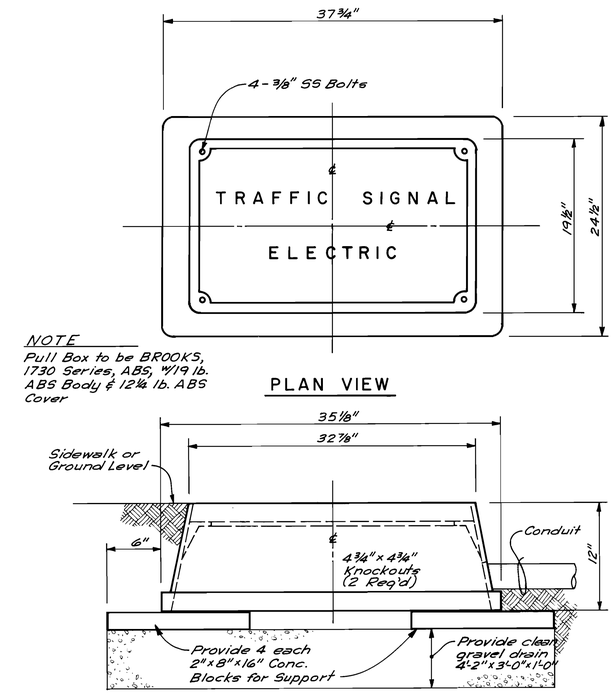
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	[illegible]	11/20/86	Liquid Waste	N/A GR	1-31-86
A.C.E.-Design	[illegible]	1/31/86	Traffic	R.A. Parks	1-31-86
~~A.C.E.~~-Hydrology	K.K. Lugal N/A	1-31-86	Water	N/A GR	1-31-86

DRAWING NO.	MAP NO.	SHEET	OF
2151	E-18, E-19	23	34



STREET LIGHTING & SIGNALIZATION PLAN

SCALE: 1"=20'



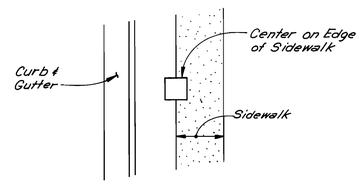
NOTE
Pull Box to be BROOKS, 1730 Series, ABS, W/19 lb. ABS Body & 12¼ lb. ABS Cover

LARGE PULL BOX DETAILS

NO SCALE

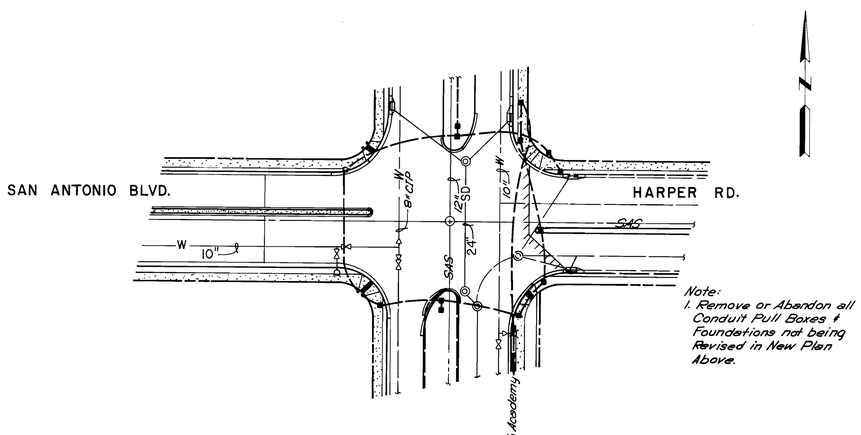
LEGEND

- NEW PULLBOX
- NEW PULL BOX LIGHTING
- NEW LARGE PULL BOX - SEE DETAIL THIS SHEET
- NEW PEDESTAL SIGNAL FOUNDATION, TYPE I
- NEW PEDESTAL CONTROLLER FOUNDATION, TYPE II
- NEW SIGNAL CONDUIT (2" UNLESS OTHERWISE SHOWN)
- NEW LIGHTING CONDUIT, 2"
- NEW MAST ARM FOUNDATION, TYPE II
- EXISTING PULLBOX
- EXISTING PEDESTAL SIGNAL FOUNDATION, TYPE I
- EXISTING PEDESTAL CONTROLLER FOUNDATION, TYPE II
- EXISTING SIGNAL CONDUIT



TYPICAL MASTARM LOCATION

NO SCALE



Note:
1. Remove or Abandon all Conduit Pull Boxes & Foundations not being Revised in New Plan Above.

EXISTING CONDUIT PLAN

SCALE: 1"=50'

AS BUILT INFORMATION
CONTRACTOR Moore & Cowart
WORK STAKED BY A.A.F.R. DATE 11/87
INSPECTORS ACCEPTANCE BY City DATE 10/87
FIELD VERIFICATION BY Christaitfer DATE 10/87
DRAWINGS CORRECTED BY A.A.F.R. DATE 10/87
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS
ACS STA #12-E18 1978" ELEVATION 5337.039
ACS BRASS TABLET SET ON CONCRETE POST FLUSH W/GROUND LOCATED 41 FEET SOUTH OF THE CENTERLINE OF SAN ANTONIO DRIVE AND 34 FEET WEST OF THE CENTERLINE OF LOUISIANA BOULEVARD

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO
ANDREWS, ASBURY & ROBERT, INC. CONSULTING ENGINEERS 78-138 ALBUQUERQUE, NEW MEXICO

NO.	DATE	REMARKS	BY

REVISIONS

DESIGNED BY DATE
DRAWN BY DATE
CHECKED BY DATE

John A. Andrews
RECORD DRAWING
26 21512487

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

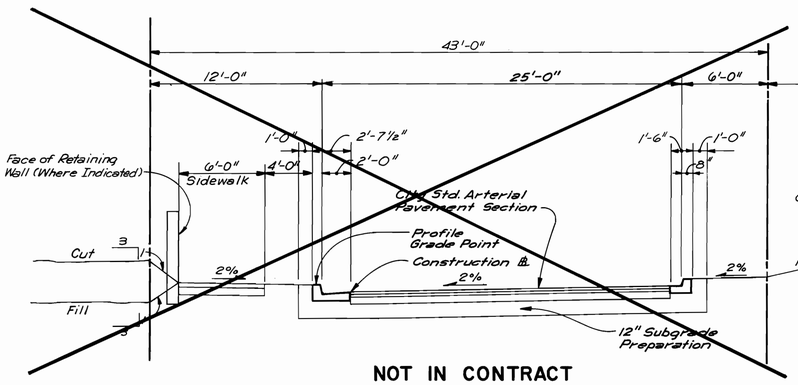
PINO ARROYO CORRIDOR IMPROVEMENTS

SAN ANTONIO DRIVE NE.
STREET LIGHTING & SIGNALIZATION PLAN & DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	[illegible]	1/20/86	Liquid Waste	N/A BR	1-31-86
A.C.E.-Design	[illegible]	1/31/86	Traffic	D.A. Parks	1-31-86
~~A.C.E.~~-Hydrology	R.L. Lugal NA	1-31-86	Water	N/A BR	1-31-86

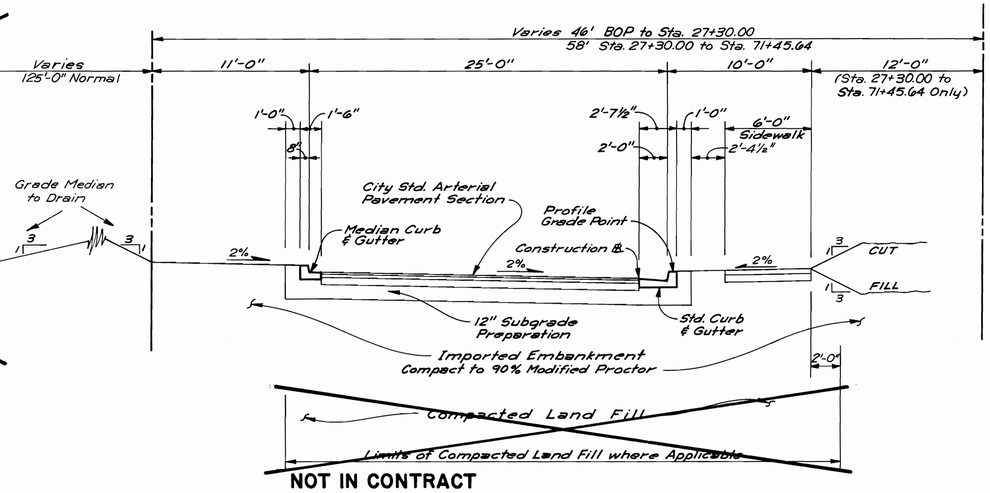
DRAWING NO.	MAP NO.	SHEET	OF
2151	E-18, E-19	24	34

AF 22440A



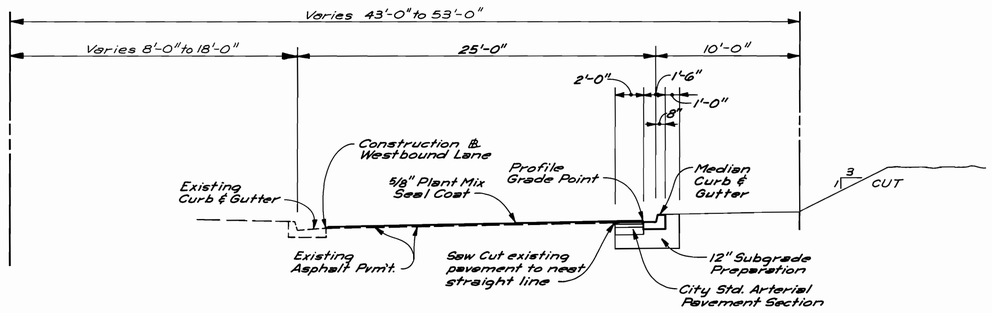
NOT IN CONTRACT

WEST BOUND LANE
BOP to Sta. 25+04.42

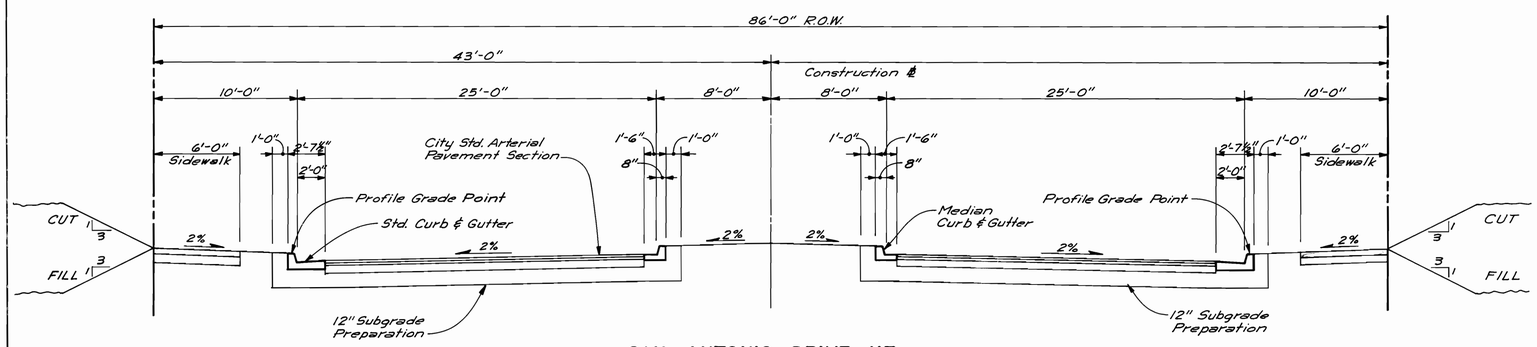


NOT IN CONTRACT

EAST BOUND LANE
BOP to Sta. 71+45.64



WEST BOUND LANE
Sta. 42+98.39 to Sta. 71+45.64



SAN ANTONIO DRIVE NE.
Sta. 71+45.64 to EOP

AS BUILT INFORMATION

CONTRACTOR Moore & Cowart
WORK STAKED BY A.A.E.R. DATE 11/87-10/87
AS BUILT WORK ACCEPTANCE BY C.H. DATE 10/87
FIELD VERIFICATION BY C.Hyd.A.A.E. DATE 10/87
DRAWINGS CORRECTED BY D.A.F.R. DATE 10/87
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

ACS STA "12-E18 1978" ELEVATION 5337.039
ACS BRASS TABLET SET ON CONCRETE POST FLUSH W/GROUND LOCATED 41 FEET SOUTH OF THE CENTERLINE OF SAN ANTONIO DRIVE AND 34 FEET WEST OF THE CENTERLINE OF LOUISIANA BOULEVARD

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO JOHN A. ANDREWS

ANDREWS, ASBURY & ROBERT, INC.
CONSULTING ENGINEERS
ALBUQUERQUE, NEW MEXICO 765-1358

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN

DESIGNED BY DATE
DRAWN BY DATE
CHECKED BY DATE

RECORD DRAWING
26 21512587

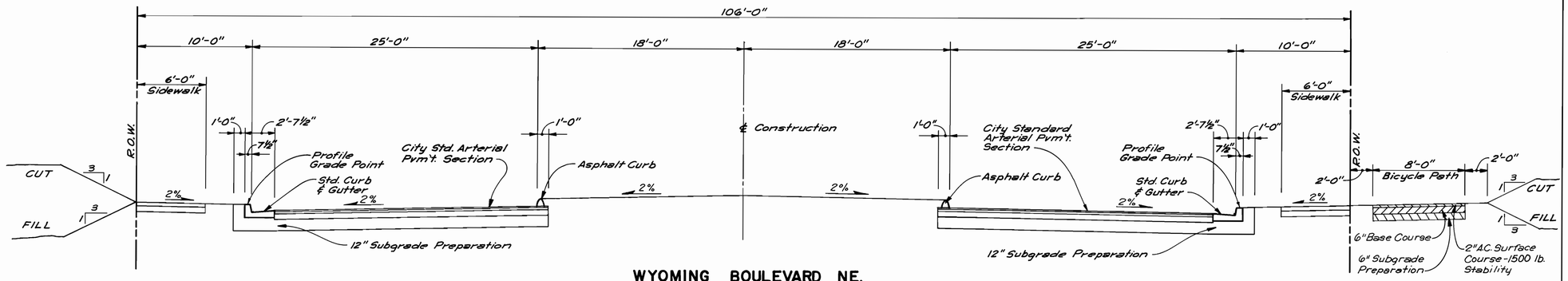
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

PINO ARROYO CORRIDOR IMPROVEMENTS
TYPICAL STREET SECTIONS
SAN ANTONIO DRIVE NE.

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	[illegible]	11/20/86	Liquid Waste	N/A	1-31-86
A.C.E.- Design	[illegible]	1/31/86	Traffic	D.A. Parks	1-31-86
~~A.C.E.~~ -Hydrology	K.K. Cooyal	1-31-86	Water	N/A	1-31-86

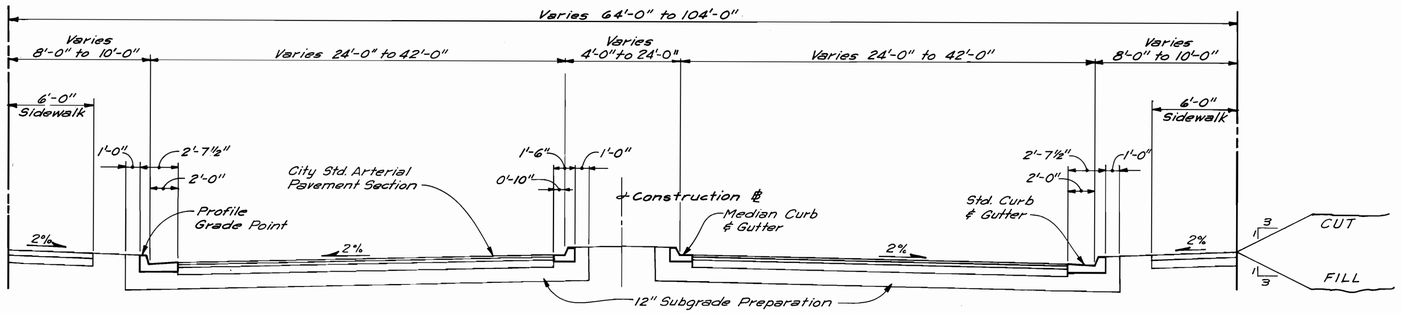
DRAWING NO.	MAP NO.	SHEET	OF
2151	E-18, E-19	25	34

AF 22440A



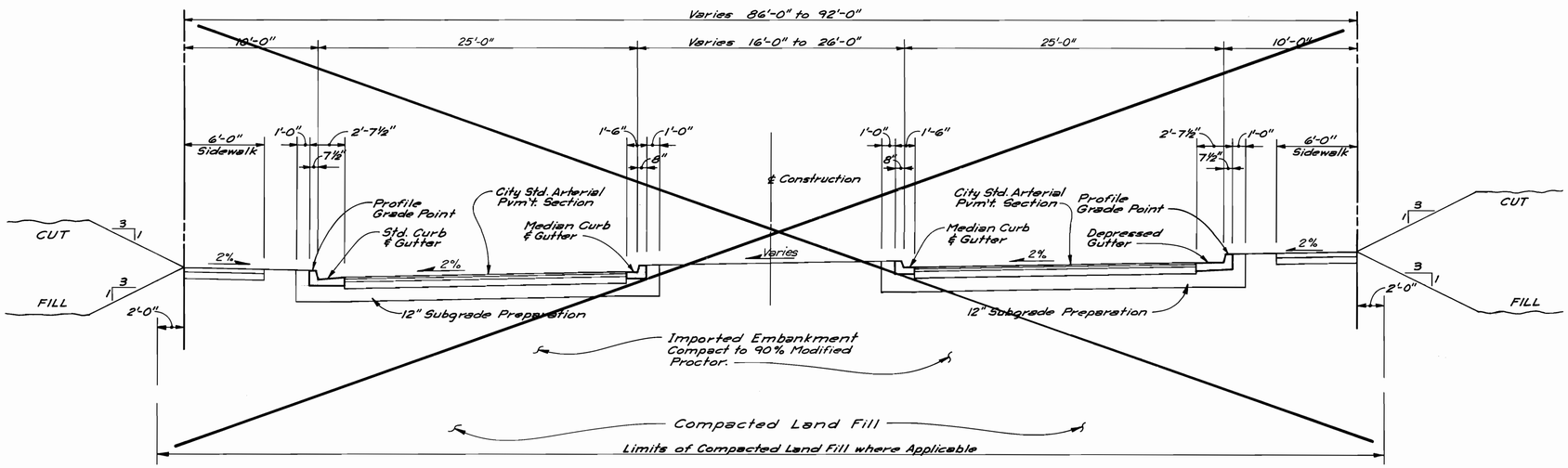
WYOMING BOULEVARD NE.

SCALE: 1" = 5'



LOUISIANA BOULEVARD NE.

SCALE: 1" = 5'



NOT IN CONTRACT

SAN PEDRO DRIVE NE.

SCALE: 1" = 5'

AS BUILT INFORMATION

CONTRACTOR Moore & Conert
WORK STAKED BY A.A.K.E. DATE 11/87
STAKES CHECKED BY A.A.K.E. DATE 10/87
ACCEPTANCE BY CITY DATE 10/87
FIELD VERIFICATION BY CITY A.A.K.E. DATE 10/87
DRAWINGS CORRECTED BY A.A.K.E. DATE 10/87
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

ACS STA "12-E18 1978" ELEVATION 5337.039
ACS BRASS TABLET SET ON CONCRETE POST FLUSH W/GROUND LOCATED 41 FEET SOUTH OF THE CENTERLINE OF SAN ANTONIO DRIVE AND 34 FEET WEST OF THE CENTERLINE OF LOUISIANA BOULEVARD

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO JOHN A. ANDREWS No. 1944

ANDREWS, ASBURY & ROBERT, INC.
CONSULTING ENGINEERS
ALBUQUERQUE, NEW MEXICO 775-1305

REVISIONS

NO.	DATE	REMARKS	BY

DESIGNED BY DATE
DRAWN BY DATE
CHECKED BY DATE

John A. Andrews
RECORD DRAWING
26 21512687

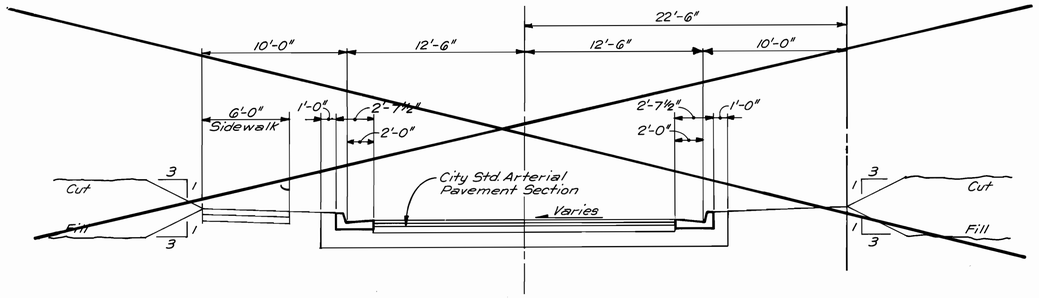
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

PINO ARROYO CORRIDOR IMPROVEMENTS
TYPICAL STREET SECTIONS
WYOMING BLVD. NE. & SAN PEDRO DR. NE.

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	[illegible]	1/30/86	Liquid Waste	N/A BR	1-31-86
A.C.E.- Design	[illegible]	1/31/86	Traffic	D. A. Parks	1-31-86
~~A.C.E.~~ -Hydrology	K. K. Goyal	1-31-86	Water	N/A BR	1-31-86

for

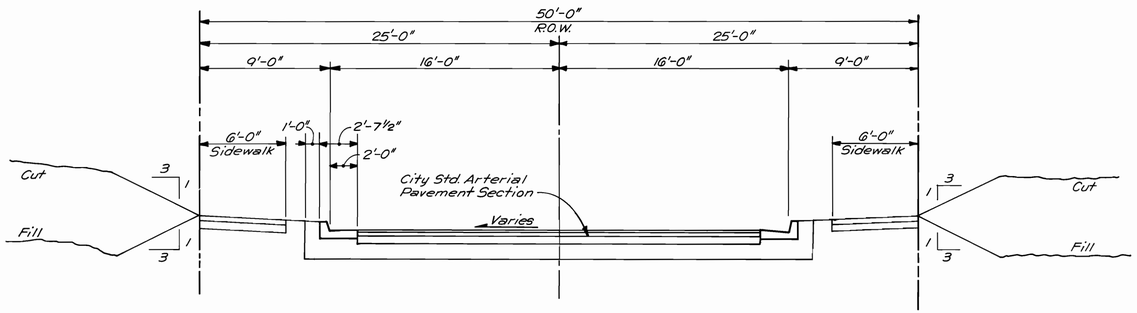
DRAWING NO.	MAP NO.	SHEET	OF
2151	E-18, E-19	26	34



NOT IN CONTRACT

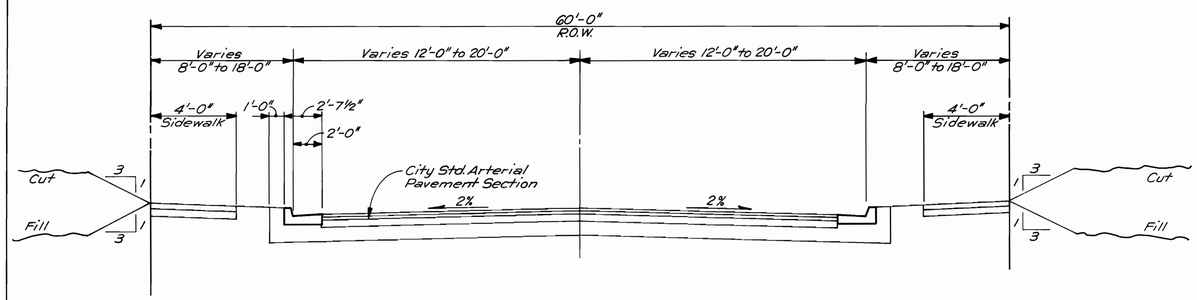
CROSS-STREET

SCALE: 1"=5'



JOYCE DR. NE. & LEONA ST. NE.

SCALE: 1"=5'



SAN ANTONIO PLACE NE.

SCALE: 1"=5'

AS BUILT INFORMATION

CONTRACTOR Moore & Cowart DATE 1/87

WORK STAKED BY A.A.I.R. DATE 12/87

INSPECTOR'S ACCEPTANCE BY City DATE 10/87

FIELD VERIFICATION BY Chris Frank DATE 10/87

FIELD CHANGES CORRECTED BY A.A.I.R. DATE 10/87

MICRO-FILM INFORMATION

RECORDED BY DATE

NO.

BENCH MARKS

ACS STA "12-E18 1978" ELEVATION 5337.039

ACS BRASS TABLET SET ON CONCRETE POST FLUSH W/GROUND LOCATED 41 FEET SOUTH OF THE CENTERLINE OF SAN ANTONIO DRIVE AND 34 FEET WEST OF THE CENTERLINE OF LOUISIANA BOULEVARD

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

REGISTERED PROFESSIONAL ENGINEER JOHN A. ANDREWS NO. 5280 STATE OF NEW MEXICO

ANDREWS, ASBURY & ROBERT, INC.
CONSULTING ENGINEERS 78-158
ALBUQUERQUE NEW MEXICO

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN

DESIGNED BY DATE

DRAWN BY DATE

CHECKED BY DATE

John A. Andrews

RECORD DRAWING

26 21512787

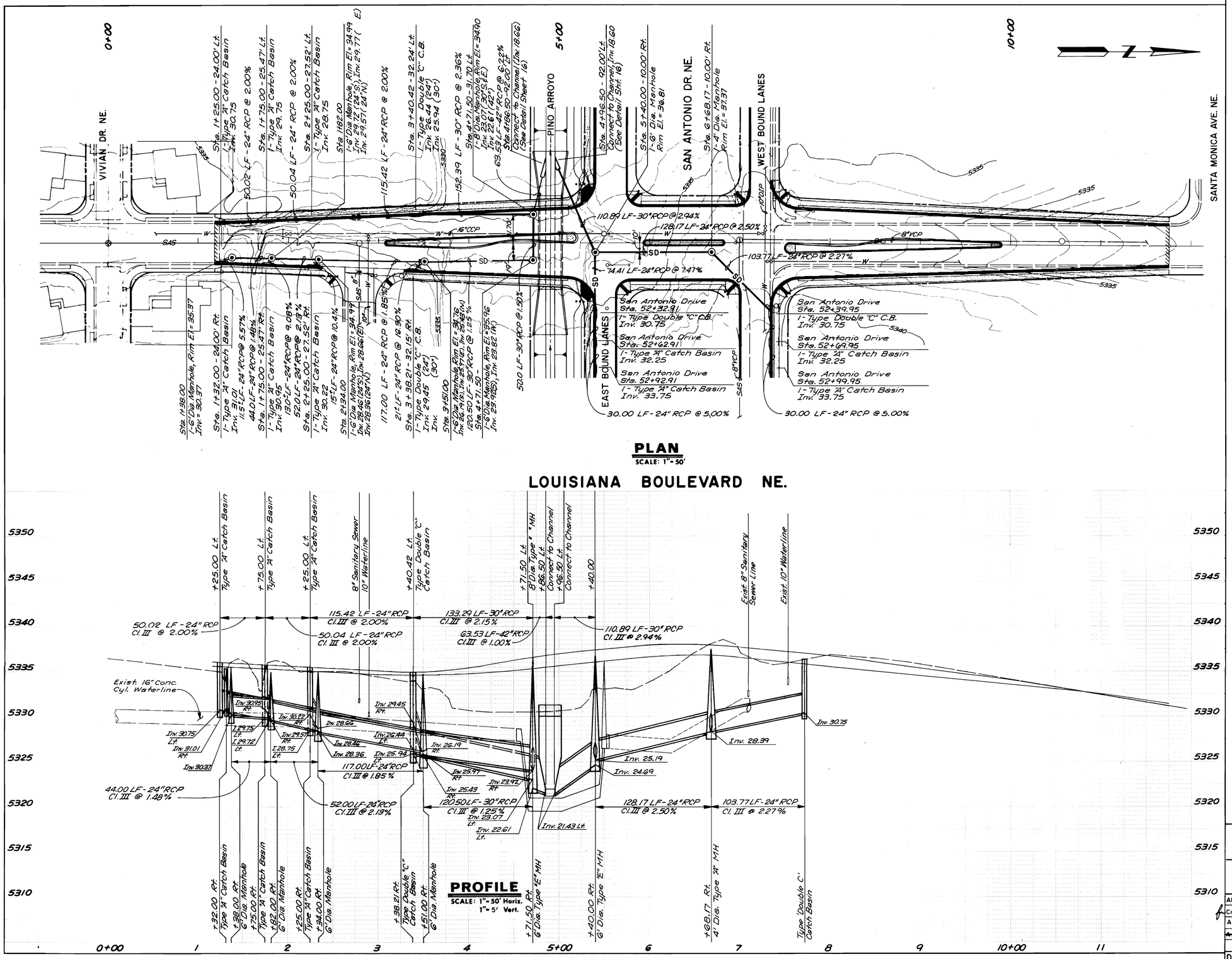
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

PINO ARROYO CORRIDOR IMPROVEMENTS

TYPICAL STREET SECTIONS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	[illegible]	1/30/86	Liquid Waste	N/A BR	1-31-86
A.C.E.-Design	[illegible]	1/31/86	Traffic	D.A. Parks	1-31-86
~~A.C.E.~~ -Hydrology	R.K. Goyal	1-31-86	Water	N/A BR	1-31-86

DRAWING NO.	MAP NO.	SHEET	OF
2151	E-18, E-19	27	34



SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

BENCH MARKS

ACS STA "12-E18 1978" ELEVATION 5337.039

ACS BRASS TABLET SET ON CONCRETE POST FLUSH W/GROUND LOCATED 41 FEET SOUTH OF THE CENTERLINE OF SAN ANTONIO DRIVE AND 34 FEET WEST OF THE CENTERLINE OF LOUISIANA BOULEVARD

AS BUILT INFORMATION

CONTRACTOR Moore & Conner 1/87

WORK STAKED BY A.A.K.R. DATE 10/87

STREET WORK ACCEPTANCE BY CITY DATE 10/87

FIELD VERIFICATION BY CITY & A.A.K.R. DATE 10/87

DRAWINGS CORRECTED BY A.A.K.R. DATE 10/87

MICRO-FILM INFORMATION

RECORDED BY DATE

NO

ENGINEER'S SEAL

REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO JOHN A. ANDREWS

ANDREWS, ASBURY & ROBERT, INC. CONSULTING ENGINEERS NEW MEXICO
ALBUQUERQUE 75-138

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN

DESIGNED BY DATE

DRAWN BY DATE

CHECKED BY DATE

John A. Andrews

RECORD DRAWING

26 21 51 2887

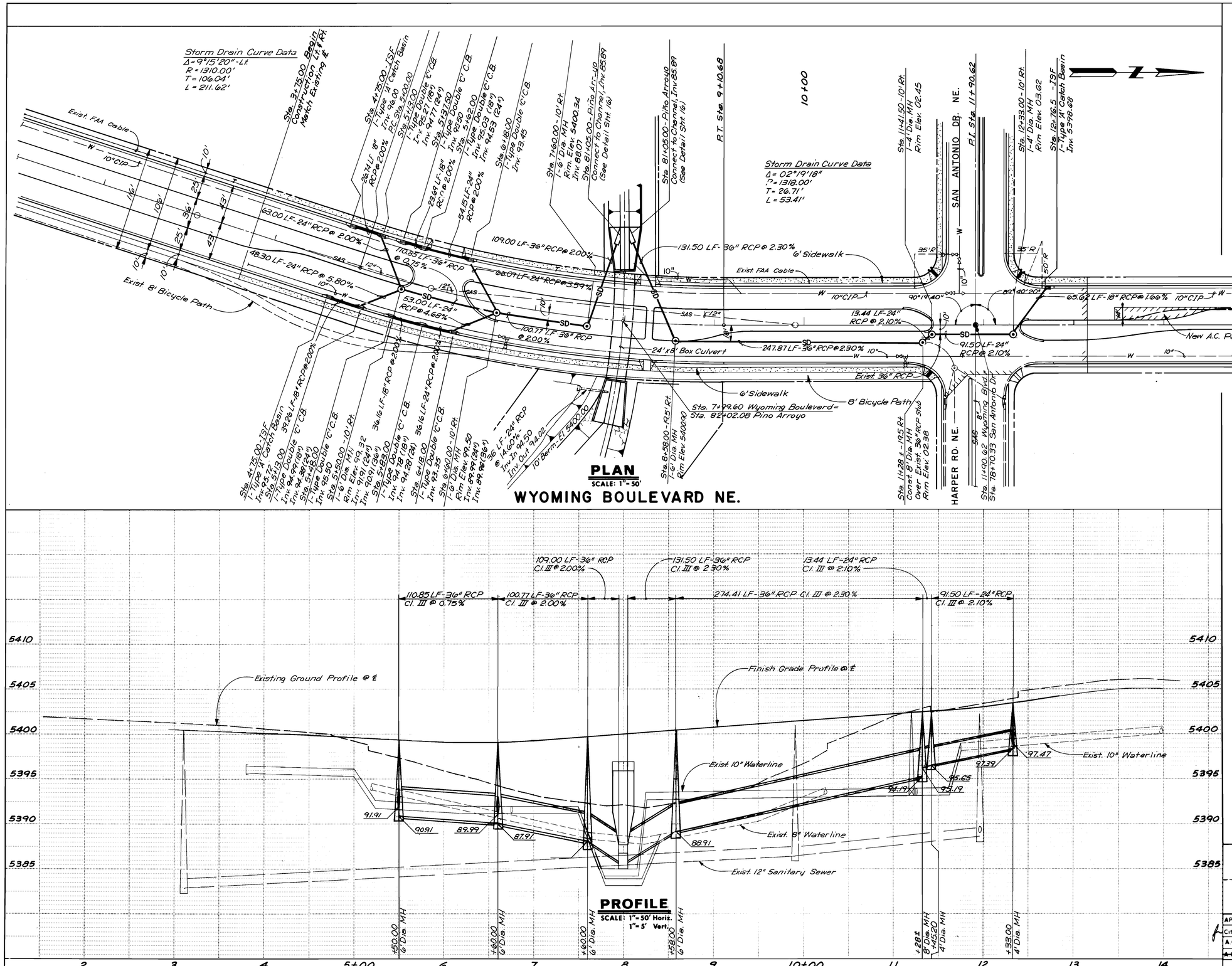
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

PINO ARROYO CORRIDOR IMPROVEMENTS

LOUISIANA BOULEVARD NE.
STORM DRAIN PLAN & PROFILE

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer		11/20/86	Liquid Waste	B. Kyle	1-31-86
A.C.E.-Design		11/20/86	Traffic	D. Parks	1-31-86
~~A.C.E.~~-Hydrology		1-31-86	Water	B. Kyle	1-31-86

DRAWING NO.	MAP NO.	SHEET	OF
2151	E-18, E-19	28	34



AS BUILT INFORMATION

CONTRACTOR Moore & Cowart — DATE 11/87

STAKED BY A.A.F.R. — DATE 10/87

INSPECTOR'S ACCEPTANCE BY City — DATE 10/87

FIELD VERIFICATION BY City & A.A.F.R. — DATE 10/87

MARKED FOR CORRECTION BY A.A.F.R. — DATE 10/87

MICRO-FILM INFORMATION

RECORDED BY — DATE

NO.

BENCH MARKS

ACS STA "12-E18 1978" — ELEVATION 5337.039

ACS BRASS TABLET SET ON CONCRETE POST FLUSH W/GROUND LOCATED 41 FEET SOUTH OF THE CENTERLINE OF SAN ANTONIO DRIVE AND 34 FEET WEST OF THE CENTERLINE OF LOUISIANA BOULEVARD

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

REGISTERED PROFESSIONAL ENGINEER — STATE OF NEW MEXICO — JOHN A. ANDREWS — No. 5986

ANDREWS, ASBURY & ROBERT, INC. CONSULTING ENGINEERS NEW MEXICO 78-138 ALBUQUERQUE

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN

DESIGNED BY — DATE

DRAWN BY — DATE

CHECKED BY — DATE

John A. Andrews

RECORD DRAWING

26 21 51 29 87

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

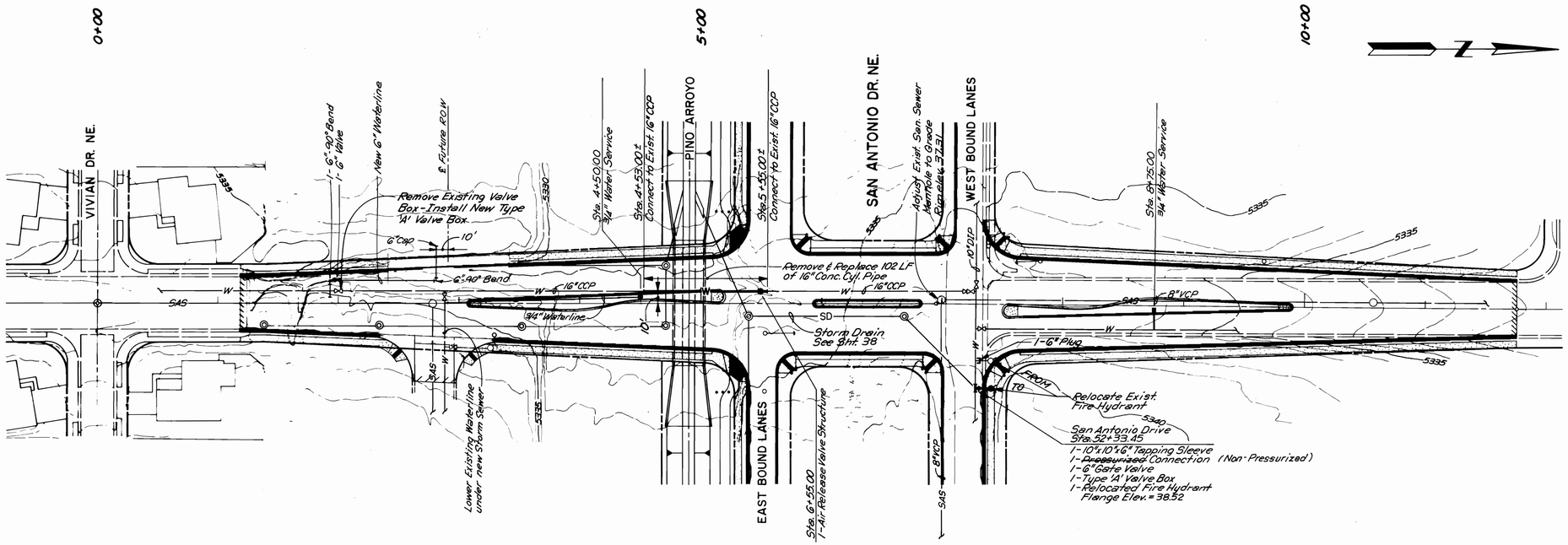
PINO ARROYO CORRIDOR IMPROVEMENTS

WYOMING BOULEVARD NE.

STORM DRAIN PLAN & PROFILE

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	[illegible]	1/30/86	Liquid Waste	B. Rabb	1-31-86
A.C.E.-Design	[illegible]	1/31/86	Traffic	D.A. Parks	1-31-86
A.C.E.-Hydrology	R.K. Goyal	1-31-86	Water	B. Rabb	1-31-86

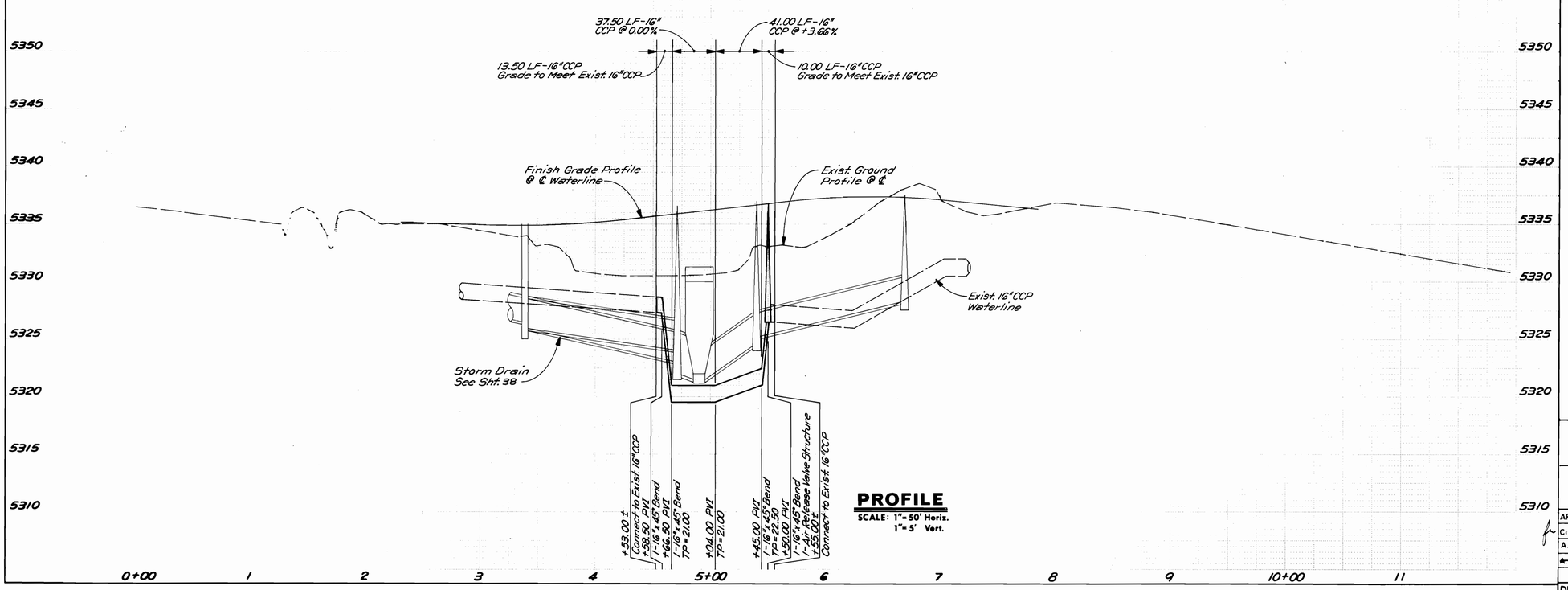
DRAWING NO.	MAP NO.	SHEET	OF
2151	E-18, E-19	29	34



PLAN

SCALE: 1" = 50'

LOUISIANA BOULEVARD NE.



PROFILE

SCALE: 1" = 50' Horiz.
1" = 5' Vert.

NOTES

1. CONTACT THE CITY'S WATER SYSTEMS DIVISION AT 823-4052 TO COORDINATE SHUT DOWN OF THE EXISTING WATER SYSTEM.
2. ALL CONCRETE CYLINDER PIPE JOINTS SHALL BE WELDED.

AS BUILT INFORMATION

CONTRACTOR Moore & Conner 1187-
WORK STAKED BY A.A.R.E. DATE 10/87
WORK INSPECTED BY City ACCEPTANCE DATE 10/87
FIELD VERIFICATION BY City A.A.R.E. DATE 10/87
DRAWINGS CORRECTED BY A.A.R.E. DATE 10/87
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

ACS STA "12-E18 1978" ELEVATION 5337.039
ACS BRASS TABLET SET ON CONCRETE POST FLUSH W/GROUND LOCATED 41 FEET SOUTH OF THE CENTERLINE OF SAN ANTONIO DRIVE AND 34 FEET WEST OF THE CENTERLINE OF LOUISIANA BOULEVARD

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO JOHN A. ANDREWS 5966

ANDREWS, ASBURY & ROBERT, INC.
CONSULTING ENGINEERS
ALBUQUERQUE NEW MEXICO 78-138

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN

DESIGNED BY DATE
DRAWN BY DATE
CHECKED BY DATE

John A. Andrews

RECORD DRAWING

26 2151 30 87

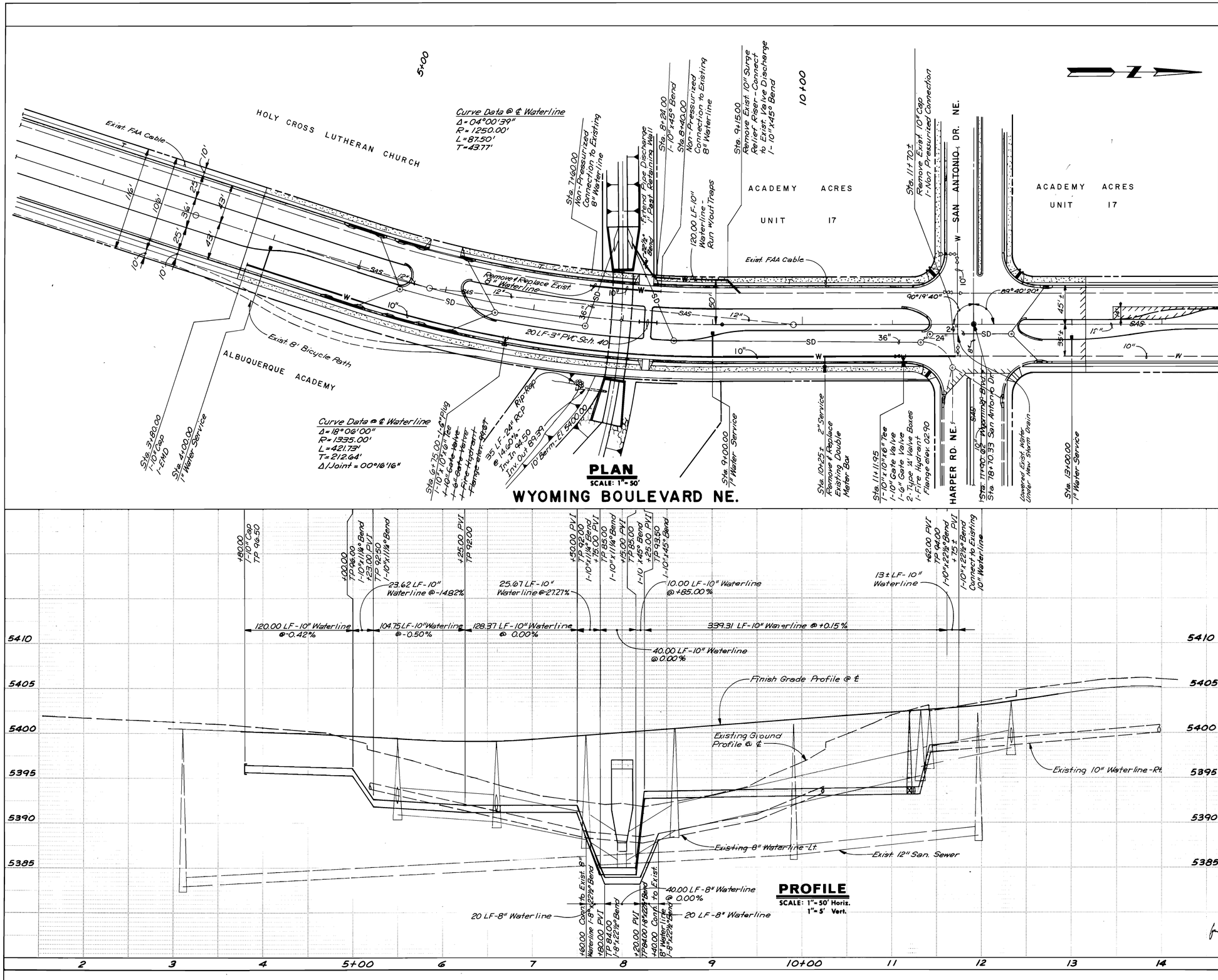
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

PINO ARROYO CORRIDOR IMPROVEMENTS

LOUISIANA BOULEVARD NE.
WATERLINE RELOCATION PLAN & PROFILE

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer		11/20/86	Liquid Waste	B. Rgals	1-31-86
A.C.E. - Design		1/31/86	Traffic N/A		1-31-86
~~A.C.E.~~ - Hydrology	K. K. Lugal N/A	1-31-86	Water	B. Rgals	1-31-86

DRAWING NO.	MAP NO.	SHEET	OF
2151	E-18, E-19	30	34



NOTES

1. ALL VERTICAL BENDS IN WATERLINE SHALL HAVE RESTRAINED JOINTS. ALL JOINTS WITHIN 30' OF VERTICAL BENDS SHALL ALSO BE RESTRAINED.

AS BUILT INFORMATION

CONTRACTOR Moore & Cowart DATE 10/87
WORK STAKED BY A.A.&R. DATE 10/87
INSPECTOR'S ACCEPTANCE BY City DATE 10/87
VERIFICATION BY City A.A.&R. DATE 10/87
FIELD VERIFICATION CORRECTED BY A.A.&R. DATE 10/87
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS

ACS STA "12-E18 1978" ELEVATION 5337.039
ACS BRASS TABLET SET ON CONCRETE POST FLUSH W/GROUND LOCATED 41 FEET SOUTH OF THE CENTERLINE OF SAN ANTONIO DRIVE AND 34 FEET WEST OF THE CENTERLINE OF LOUISIANA BOULEVARD

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

ANDREWS, ASBURY & ROBERT, INC.
CONSULTING ENGINEERS
ALBUQUERQUE NEW MEXICO
78-138

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN
DESIGNED BY DATE
DRAWN BY DATE
CHECKED BY DATE

John A. Andrews
RECORD DRAWING
1 2 3 4 5 6 7 8 9 10 11 12
26 2/5/3/1/8/7

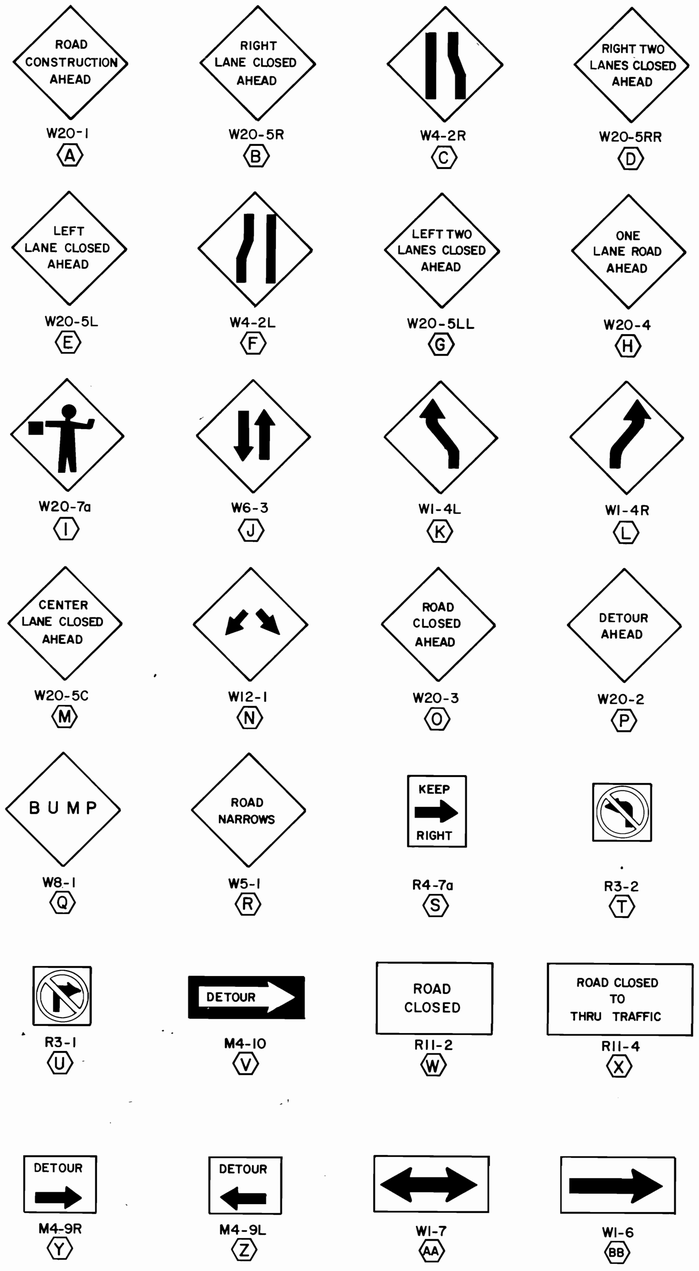
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

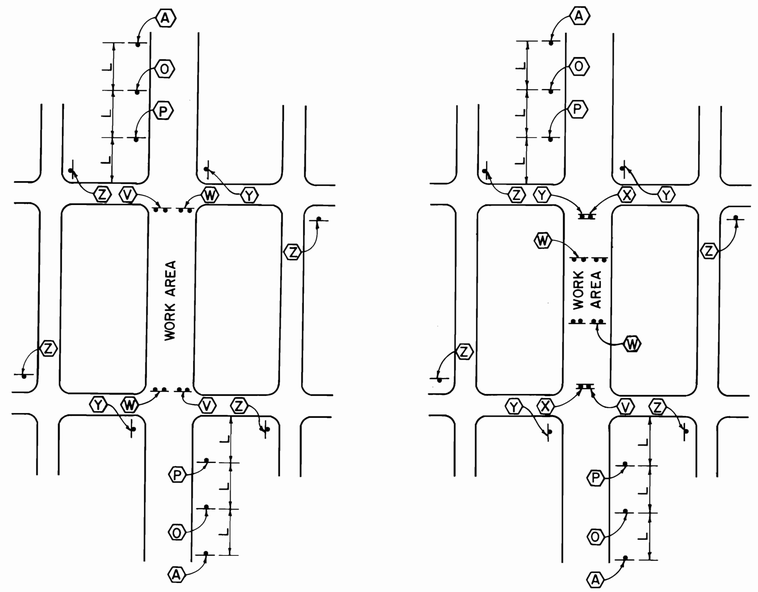
PINO ARROYO CORRIDOR IMPROVEMENTS

WYOMING BOULEVARD NE.
WATERLINE PLAN & PROFILE

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	Mike Hess	11/20/86	Liquid Waste	B Rabb	1-31-86
A C E - Design	Robert L. Lee	1/31/86	Traffic N/A		
~~A C E~~ - Hydrology	R. R. Wyatt N/A	1-31-86	Water	B Rabb	1-31-86

DRAWING NO. 2151 MAP NO. E-18, E-19 SHEET 31 OF 34





TYPICAL STREET CLOSURE PLANS

NO SCALE

SPEED LIMIT (MPH)	TAPER LENGTH (FEET)			MAXIMUM DISTANCE BETWEEN DEVICES (FEET)	MINIMUM NUMBER OF DEVICES REQUIRED
	10 FOOT LANE	11 FOOT LANE	12 FOOT LANE		
25	104	115	125	25	6
30	150	165	185	30	7
35	204	225	245	35	8
40	267	293	320	40	9
45	450	495	540	45	13
50	500	550	600	50	13
55	550	605	660	55	13

LEGEND

●	BARRICADE - BARREL
⊢	SIGN
H	VERTICAL PANEL
⋮	BARRICADE - TYPE III
L	DISTANCE BETWEEN ADVANCE SIGNS - A DISTANCE MEASURED IN FEET EQUAL TO TEN TIMES THE SPEED LIMIT.
S	SPACING BETWEEN BARRICADES - MAXIMUM SPACING TO BE A VALUE MEASURED IN FEET EQUAL TO THE SPEED LIMIT.
TANGENT	TANGENT LENGTH EQUALS TAPER LENGTH AS SHOWN IN SCHEDULE.

NOTES

1. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE TRAFFIC ENGINEER A CONSTRUCTION SCHEDULE WHICH INCLUDES AN OUTLINE OF HOW TWO WAY TRAFFIC IS TO BE MAINTAINED ON THE REQUIRED ROADS.

2. THE CONTRACTOR MUST OBTAIN A BARRICADING PERMIT FROM THE TRAFFIC ENGINEERING OFFICE TWO DAYS PRIOR TO EACH PHASE OF CONSTRUCTION OR THE SHIFTING OF TRAFFIC.

3. CONTRACTOR MUST COMPLY WITH SECTION 19 OF THE CITY OF ALBUQUERQUE'S INTERIM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.

4. TWO WAY TRAFFIC MUST BE MAINTAINED ON SAN ANTONIO DR., SAN PEDRO DR. NORTH OF SAN ANTONIO DR., LOUISIANA BLVD. NORTH OF SAN ANTONIO DR., WYOMING BLVD., AND HARPER BLVD. AT ALL TIMES.

5. WHILE MAINTAINING TWO WAY TRAFFIC ON THE EXISTING LANES OF SAN ANTONIO DR., CONSTRUCT THE PINO ARROYO CHANNEL AND THE SOUTH HALF OF SAN ANTONIO DR. TYPE III BARRICADES ARE TO BE PLACED AT EVERY ACCESS POINT TO PREVENT TRAFFIC FROM USING THE UNCOMPLETED ROADWAY.

6. WYOMING BLVD. TRAFFIC MAY NOT BE DIVERTED UNTIL SAN PEDRO DR. IS OPEN TO TWO WAY TRAFFIC BETWEEN McKINNEY DR. AND SANTA MONICA AVE. WORK ON WYOMING BLVD. IS TO BE BROKEN UP INTO THREE PHASES. IN PHASE 1, SOUTH BOUND WYOMING BLVD. IS TO BE DIVERTED ONTO THE NORTH BOUND LANES OF WYOMING BLVD. AT THE OLD SAN ANTONIO DR. INTERSECTION AND RETURNED AT STA. 3+75.00. FROM STA. 3+75.00 TO STA. 2+25.00 THE CONTRACTOR SHALL REMOVE THE EXISTING ASPHALT MEDIAN AND PLACE A TEMPORARY ASPHALT PATCH IN THE MEDIAN AREA IN ORDER TO PROVIDE A CROSS OVER POINT FOR WYOMING BLVD. TRAFFIC. THE CONTRACTOR SHALL REMOVE THE ASPHALT PATCH AND REPLACE THE ASPHALT CURBING AT THE END OF THE PROJECT. PHASE 2 - USING THE SAME TWO MEDIAN CROSS OVER POINTS AS IN PHASE ONE, SHIFT NORTH BOUND TRAFFIC ONTO THE SOUTH BOUND LANES OF WYOMING BLVD. DURING THIS PHASE THE SOUTH HALF OF HARPER ROAD MAY BE CLOSED WITH EAST BOUND TRAFFIC SPLIT ONTO THE WEST BOUND LANES USING A TYPICAL SPLIT. PHASE 3 - WYOMING BLVD. TRAFFIC IS TO REMAIN ON THE EAST HALF OF THE ROAD WHILE HARPER ROAD TRAFFIC IS DIVERTED ONTO THE SOUTH BOUND LANES OF WYOMING BLVD. DURING THIS PHASE THE SOUTH HALF OF HARPER ROAD MAY BE CLOSED WITH EAST BOUND LANES USING A TYPICAL SPLIT.

7. ONCE THE SOUTH HALF OF SAN ANTONIO DR. HAS BEEN BUILT IN ITS ENTIRETY, EXCLUDING THE FRICTION COURSE OF ASPHALT, THE CONTRACTOR MAY THEN SHIFT SAN ANTONIO DR. TRAFFIC TO THE SOUTH HALF OF THE ROADWAY USING A TYPICAL TRAFFIC SPLIT. THE TRAFFIC MAY BE SPLIT ONLY IF THE NEW SECTION OF SAN ANTONIO DR. IS OPEN ENTIRELY BETWEEN WYOMING BLVD. AND SAN ANTONIO PL. WEST BOUND TRAFFIC IS TO BE SHIFTED TO THE SOUTH HALF OF SAN ANTONIO DR. AT SAN ANTONIO PL. AND RETURNED TO THE PROPER SIDE OF THE MEDIAN AT THE MEDIAN OPENING AT STA. 3+22.65. SAN ANTONIO DR. TRAFFIC MUST BE ON THE PROPER SIDE OF THE MEDIAN AT THE INTERSECTION WITH THE EAST FRONTAGE ROAD. IN LIEU OF VERTICAL PANELS RUNNING THE LENGTH OF THE SPLIT THE CONTRACTOR MAY INSTALL A SOLID DOUBLE YELLOW STRIPE PROVIDED IT IS PROPERLY MAINTAINED.

AS BUILT INFORMATION
CONTRACTOR Moore & Covert
WORK STAKED BY P.A.R. DATE 10/87
INSPECTORS ACCEPTANCE BY City DATE 10/87
VERIFICATION BY C.H.L.A.R.R. DATE 10/87
DRAWINGS CORRECTED BY P.A.R. DATE 10/87
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
ACS STA "12-E18 1978" ELEVATION 5337.039
ACS BRASS TABLET SET ON CONCRETE POST FLUSH W/GROUND LOCATED 41 FEET SOUTH OF THE CENTERLINE OF SAN ANTONIO DRIVE AND 34 FEET WEST OF THE CENTERLINE OF LOUISIANA BOULEVARD

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
REGISTERED PROFESSIONAL ENGINEER JOHN A. ANDREWS STATE OF NEW MEXICO 3290
ANDREWS, ASBURY & ROBERT, INC.
CONSULTING ENGINEERS
ALBUQUERQUE, NEW MEXICO

REVISIONS

NO.	DATE	REMARKS	BY

DESIGN
DESIGNED BY DATE
DRAWN BY DATE
CHECKED BY DATE

John A. Andrews
RECORD DRAWING
26 2151 3287

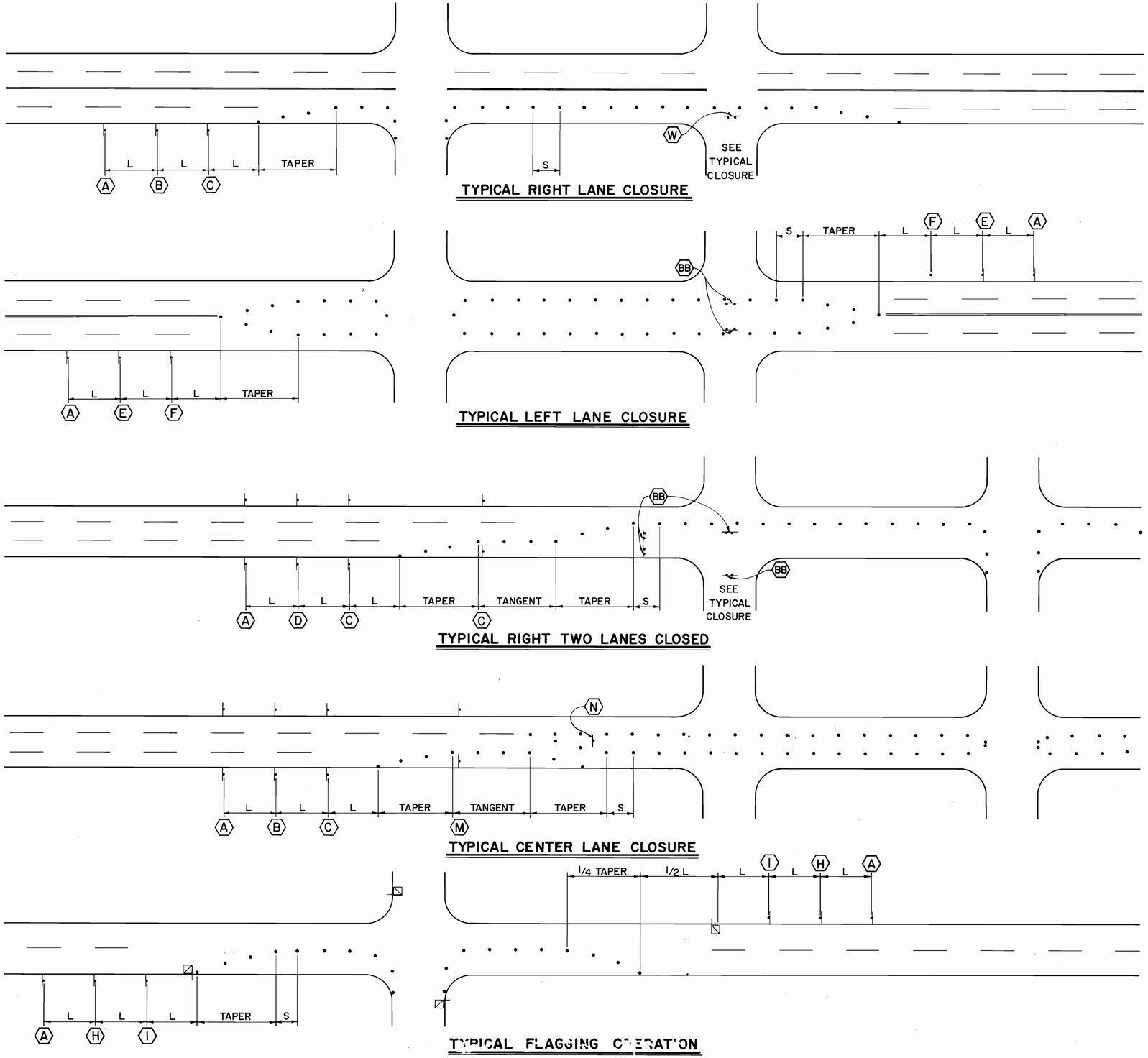
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

PINO ARROYO CORRIDOR IMPROVEMENTS

TRAFFIC CONTROL DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	[illegible]	11/21/86	Liquid Waste	N/A BR	1-21-86
A.C.E.-Design	[illegible]	1/31/86	Traffic	D.A. Rubio	1-31-86
~~A.C.E.~~-Hydrology	K. R. Cogan N/A	1-31-86	Water	N/A BR	1-21-86

DRAWING NO.	MAP NO.	SHEET	OF
2151	E-18, F 19	32	34



AS BUILT INFORMATION

CONTRACTOR Moore & Cowart DATE 11/87

WORK STAKED BY A.A.&R. DATE 10/87

INSPECTORS ACCEPTANCE BY City DATE 10/87

FIELD VERIFICATION BY C.H.&A.A.&R. DATE 10/87

DRAWINGS CORRECTED BY A.A.&R. DATE 10/87

MICRO-FILM INFORMATION

RECORDED BY DATE

NO.

BENCH MARKS

ACS STA "12-E18 1978" ELEVATION 5337.039

ACS BRASS TABLET SET ON CONCRETE POST FLUSH W/GROUND LOCATED 41 FEET SOUTH OF THE CENTERLINE OF SAN ANTONIO DRIVE AND 34 FEET WEST OF THE CENTERLINE OF LOUISIANA BOULEVARD

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO JOHN A. ANDREWS 6539

ANDREWS, ASBURY & ROBERT, INC.
CONSULTING ENGINEERS
ALBUQUERQUE NEW MEXICO
78-138

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN

DESIGNED BY DATE

DRAWN BY DATE

CHECKED BY DATE

John A. Andrews

RECORD DRAWING

C.G. 21513387

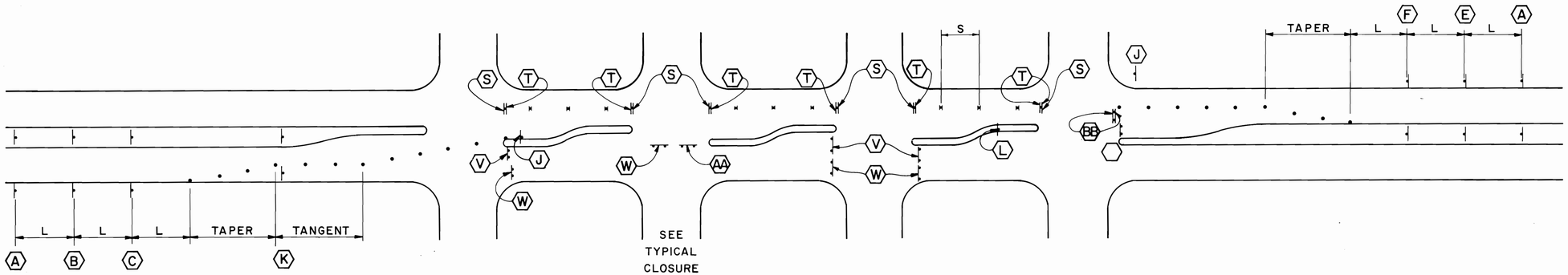
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

PINO ARROYO CORRIDOR IMPROVEMENTS

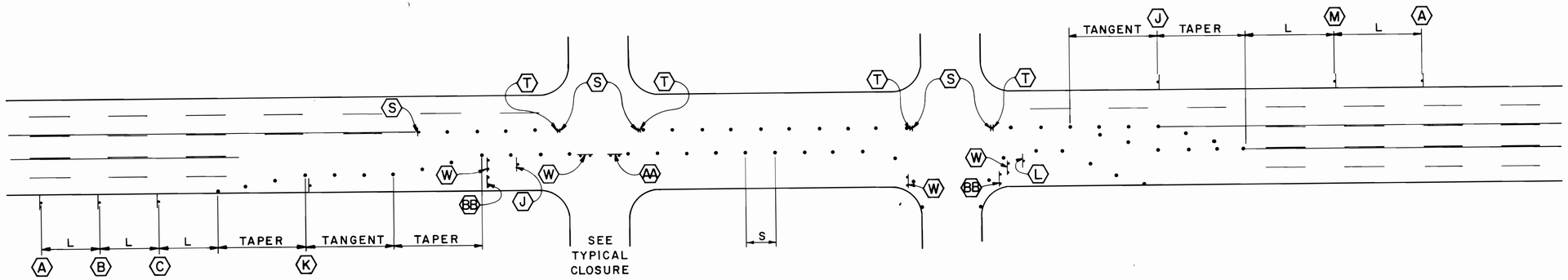
TRAFFIC CONTROL DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	[illegible]	11/20/86	Liquid Waste	N/A BR	1-31-86
A.C.E.-Design	[illegible]	1/31/86	Traffic	D.A. Parks	1-31-86
~~A.C.E.~~-Hydrology	K. K. Gupal NA	1-31-86	Water	N/A BR	1-31-86

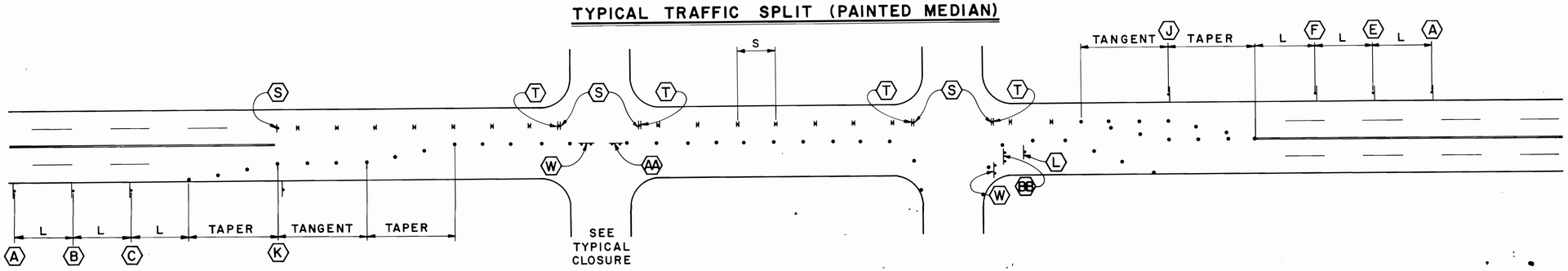
DRAWING NO.	MAP NO.	SHEET	OF
2151	E-18, E 19	33	34



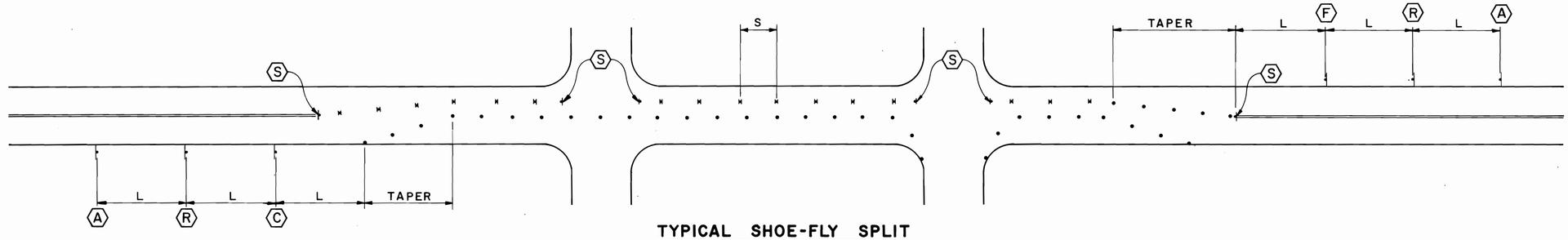
TYPICAL TRAFFIC SPLIT (RAISED MEDIAN)



TYPICAL TRAFFIC SPLIT (PAINTED MEDIAN)



TYPICAL TRAFFIC SPLIT (NO MEDIAN)



TYPICAL SHOE-FLY SPLIT

AS BUILT INFORMATION

CONTRACTOR Moore & Cowart INC.
STAKED BY A.A.&E. DATE 10/87
INSPECTORS ACCEPTANCE BY City DATE 10/87
FIELD VERIFICATION BY City A.A.&E. DATE 10/87
DRAWINGS CORRECTED BY A.A.&E. DATE 10/87

MICRO-FILM INFORMATION

RECORDED BY DATE
NO

BENCH MARKS

ACS STA #12-E18 1978"
ELEVATION 5337.039
ACS BRASS TABLET SET ON CONCRETE POST FLUSH W/GROUND
LOCATED 41 FEET SOUTH OF THE CENTERLINE OF SAN ANTONIO
DRIVE AND 34 FEET WEST OF THE CENTERLINE OF LOUISIANA
BOULEVARD

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO JOHN A. ANDREWS

ANDREWS, ASBURY & ROBERT, INC.
CONSULTING ENGINEERS
ALBUQUERQUE, N.M. 87110

NO.	DATE	REMARKS	BY

REVISIONS

DESIGNED BY DATE
DRAWN BY DATE
CHECKED BY DATE

John A. Andrews

RECORD DRAWING

26 21513487

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

PINO ARROYO CORRIDOR IMPROVEMENTS

TRAFFIC CONTROL DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
for City Engineer	[illegible]	11/20/86	Liquid Waste	N/A BR	1-31-86
A.C.E.-Design	[illegible]	1/31/86	Traffic	D.G. Parks	1-31-86
~~A.C.E.~~-Hydrology	R. R. Loyal NM	1-31-86	Water	N/A BR	1-31-86

DRAWING NO.	MAP NO.	SHEET	OF
2151	E-18, E 19	34	34