

CITY OF ALBUQUERQUE

BERNALILLO COUNTY, NEW MEXICO

VALLEY DRAINAGE STRUCTURES

CENTRAL AVE. CROSSING AZTEC ROAD CROSSING VERANDA ROAD CROSSING

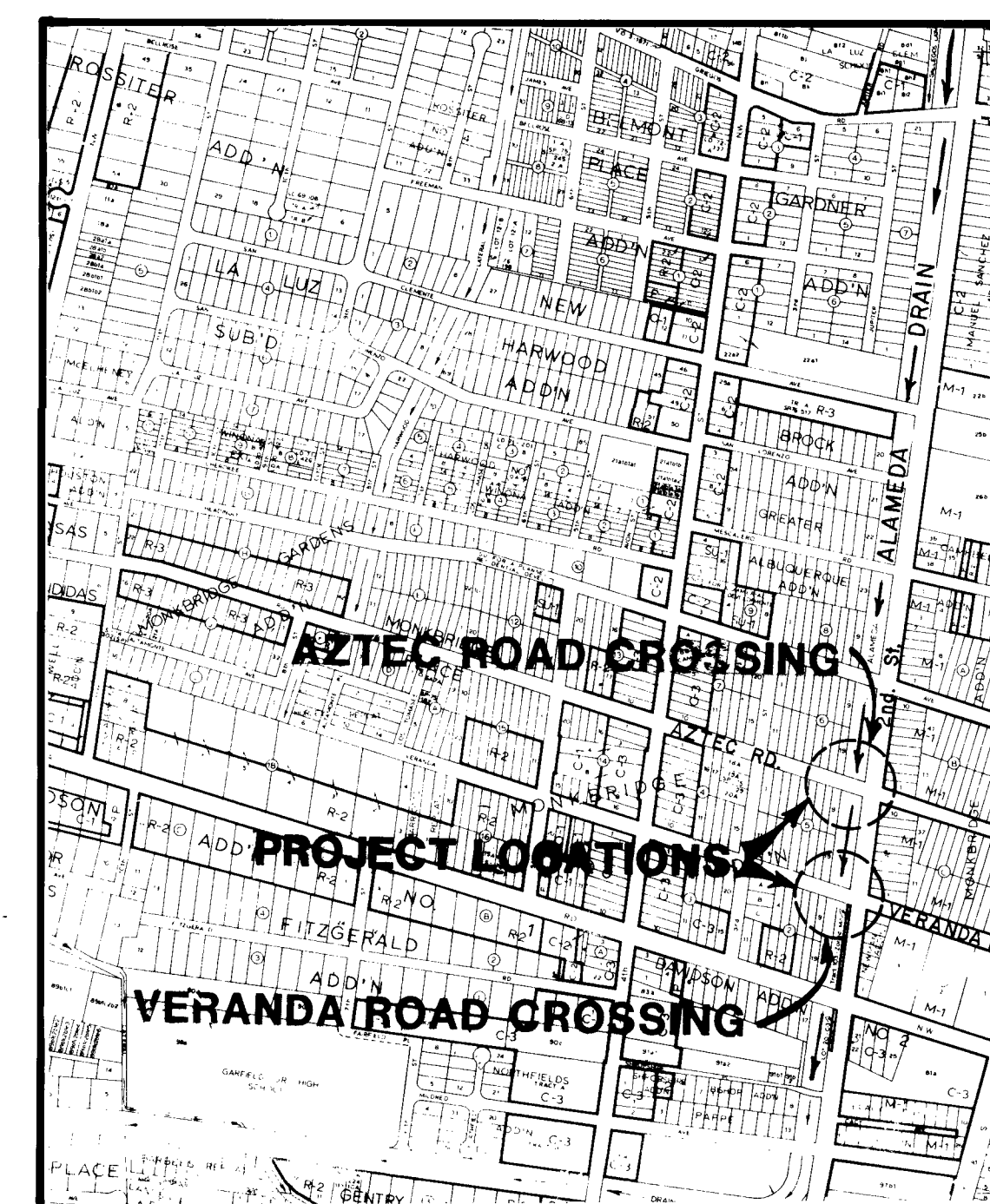
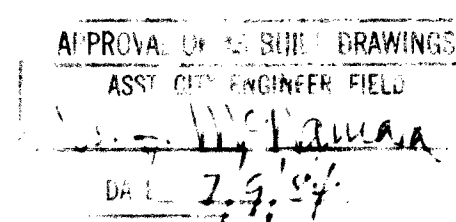
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DESCRIPTION

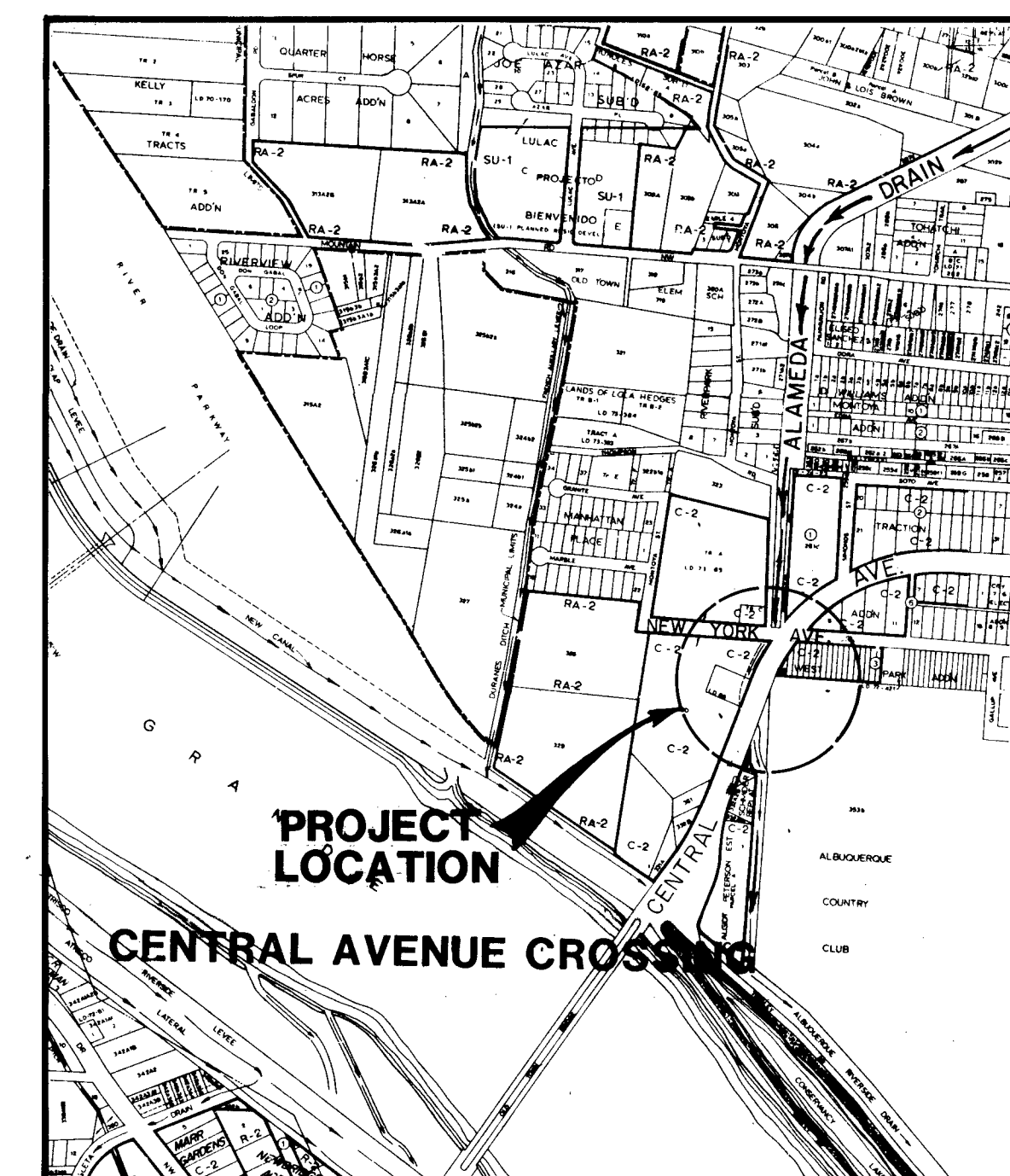
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SHEET NO.

CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION					
TITLE: VALLEY DRAINAGE STRUCTURES					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	<i>W. F. Sullivan</i>	9/8/82
A C E - Design			Traffic	<i>R. J. Hansen</i>	9/8/82
A C E - Hydrology	<i>M. Kelly</i>	9/8/82	Water	<i>W. F. Sullivan</i>	9/8/82
APPROVED FOR CONSTRUCTION <i>Richard S. Allen</i> 9/8/82 CITY ENGINEER DATE			DRAWING NO. 1544		



ZONE ATLAS MAP NO. G-14



ZONE ATLAS MAP NO. J-12

26 1544 0154



Boyle Engineering Corporation

consulting engineers

1544

RECORD DRAWING
These record drawings apply only to those facilities constructed under the contract identified in the title block and have been prepared, in part, on the basis of information compiled and furnished by others. Boyle Engineering Corporation will not be responsible for any errors or omissions which have been incorporated into this drawing as a result of the work by others.
<i>R. J. Hansen</i> 4/6/83
SHEET 1 OF 22

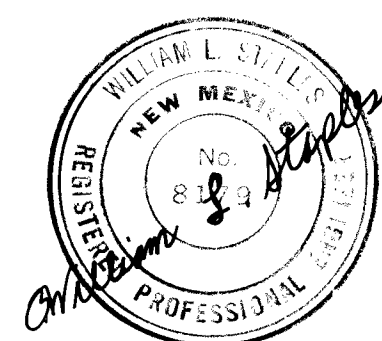
ALTERNATE A		ALTERNATE B		LOCATION	DESCRIPTION - CENTRAL AVENUE	COMMENTS
STATION FROM	STATION TO	STATION FROM	STATION TO			
2+55	6+35	2+55	6+35	21' LT - 70' LT	REMOVE & DISPOSE OF EXIST. ASPHALT PAVEMENT (SEE SHEET 21 OF 22)	CENTRAL AVE STA.
11+12	14+51	11+12	14+55	17.5' LT - 26' LT	REMOVE & DISPOSE OF EXIST. SIDEWALK & CURB & GUTTER	
11+21		11+21		E	REMOVE & DISPOSE OF EXIST. R/C BULKHEAD	
11+21	15+16	11+21	15+19	LT. & RT.	REMOVE & DISPOSE OF 10" L.F. 60" R/C PIPE & SUPPORTING STRUCTURE	
11+56		11+58		E	REMOVE 10" C.I. PIPE	TO BE RECONNECTED
11+70		11+73		E	UNDERGROUND TELEPHONE LINE	TO BE RELOCATED BY OTHERS.
12+36		12+28		E	GAS SERVICE LINE	"
13+19		13+22		5.5' RT.	POWER POLE W/ GUY WIRES	"
13+19		13+22		2' LT.	WATER METER	"
13+54		13+51		6.5' LT.	REMOVE & DISPOSE AREA DRAIN	NEW DRAIN TO BE INSTALLED
14+53		14+56		12' RT.	REMOVE & SALVAGE 4" FIRE HYDRANT	
15+14	15+82	15+15	15+84	LT. & RT.	REMOVE & SALVAGE CHAIN LINK FENCE	
15+16	15+31	15+17	15+34	E	REMOVE & DISPOSE EXIST. R/C INLET STRUCTURE	
STATION				LOCATION	DESCRIPTION - AZTEC ROAD	COMMENTS
FROM			TO			
1+65	1+66		14' LT - 14' RT	REMOVE & DISPOSE OF ASPHALT PAVEMENT		
1+79	2+13		4' RT	2" MEDIUM PRESSURE GAS LINE		TO BE CUT & CAPPED BY OTHERS
1+98			E	REMOVE & DISPOSE OF TIMBER BRIDGE		
2+07	2+34		23' LT - 28' LT	REMOVE & DISPOSE 21" CMP DRAIN		RELOCATE
2+45	2+56		16' LT - 44' LT	REMOVE & DISPOSE APPROX. 40 L.F. CURB & GUTTER		"
2+56	2+71		16' RT - 36' RT	REMOVE & DISPOSE APPROX. 35 L.F. CURB & GUTTER		
2+58			32' LT	REMOVE & DISPOSE CATCH BASIN		TO BE RELOCATED BY OTHERS
2+65			28' RT	EXISTING POWER POLE		
STATION				LOCATION	DESCRIPTION - VERANDA ROAD	COMMENTS
FROM			TO			
1+55	1+56		14' LT - 14' RT	REMOVE & DISPOSE OF ASPHALT PAVEMENT		
2+08	2+24		28' LT - 32' LT	REMOVE & DISPOSE OF 24" CMP DRAIN PIPE		RELOCATE
2+13	2+21		26' RT - 26' RT	REMOVE & DISPOSE 30" CMP DRAIN PIPE		
2+48	2+56		16' RT - 47' LT	REMOVE & DISPOSE APPROX. 38 L.F. CURB & GUTTER		
2+53	2+73		16' RT - 38' RT	REMOVE & DISPOSE APPROX. 30 L.F. CURB & GUTTER		
2+57			38' LT	REMOVE & DISPOSE CATCH BASIN		
2+57	2+75		47' LT - 37' RT	REMOVE & DISPOSE ASPHALT PAVEMENT		
2+70			26' RT	REMOVE & DISPOSE CATCH BASIN		
2+64			30' RT	POWER POLE		TO BE RELOCATED BY OTHERS

ITEM NO.	SPEC.	ITEM - ALTERNATE "C" (CHANGES & ADDITIONS TO ALTERNATE "A")	UNIT	FINAL QUANTITY
46		DEWATERING, ALT. "C"	L.S.	1
47		DOUBLE 8'x5' PRECAST R/C BOX CULVERT, IN PLACE	L.F.	396.34

1. EXISTING PROFILES AND GRADES SHOWN MAY VARY DUE TO RECENT AND CURRENT WORK DONE BY OTHERS IN THE CONSTRUCTION AREA.
2. ALL EXCAVATION FOR STORM DRAINS, AND OTHER EXCAVATIONS AS NECESSARY SHALL BE GOVERNED BY FEDERAL, STATE, AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
3. A DISPOSAL SITE FOR ALL EXCESS EXCAVATION MATERIAL, ASPHALTIC PAVING, CONCRETE PAVING ETC., SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS. ALL COSTS INCURRED IN OBTAINING A DISPOSAL SITE AND HAUL THEREO SHALL BE CONSIDERED INCIDENTAL TO SITE PREPARATION, AND NO SEPARATE PAYMENT WILL BE MADE.
4. ALL CLEARING AND GRUBBING NECESSARY SHALL BE CONSIDERED INCIDENTAL TO SITE PREPARATION AND NO SEPARATE PAYMENT WILL BE MADE.
5. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES DURING CONSTRUCTION EXCEPT DURING ACTUAL PAVING OPERATIONS.
6. THE CONTRACTOR WILL BE REQUIRED TO CONFINED HIS WORK WITHIN THE CONSTRUCTION LIMITS AND/OR ROW TO PRESERVE EXISTING VEGETATION AND PRIVATE PROPERTY. OVERNITE PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAY OPENINGS OF DESIGNATED TRAFFIC LANES.
7. FIFTY (50) TON ROLLER OPERATION SHALL NOT BE USED IN THIS PROJECT WHERE UNDERGROUND UTILITIES ARE PRESENT. THE REQUIRED COMPACTION AT THESE LOCATIONS SHALL BE EFFECTED BY MEANS OF OTHER TYPES OF ROLLING AVAILABLE.
8. EXISTING MATERIALS TO BE REMOVED UNDER SITE PREPARATION ARE LISTED FOR CONTRACTOR'S INFORMATION ONLY.
9. ALL WATER VALVE BOXES AND SEWER MANHOLES IN THE CONSTRUCTION AREA ARE TO BE ADJUSTED TO FINISH GRADE UNDER THIS CONTRACT.

ITEM NO.	SPEC. NO.	ITEM - ALTERNATE "A"	UNIT	FINAL QUANTITY
1.		SITE PREPARATION	L.B.	1
2.		DEWATERING, ALT. "A"	L.B.	1,116.0
3.	500	DOUBLE 8'x5' REBOX CULVERT, IN PLACE (EAST IN PLACE)	L.F.	N.I.C.
4.	500	R/C INLET STRUCTURE W/ SAFETY RACK (FOR EITHER ALT.)	L.B.	1
5.	552	2' Ø MANHOLES W/ LADDERS	E.A.	4
6.	211	DOWNSTREAM CHANNEL IMPROVEMENTS	L.F.	75
7.	340	STANDARD CURB & GUTTER	L.F.	499
8.	115	ASPHALT PAVEMENT, ARTERIAL & COLLECTOR	S.Y.	652
9.	115	ASPHALT PAVEMENT, RESIDENTIAL	S.Y.	1,531
10.	410	3' CHAIN LINK FENCE	L.F.	37
11.	410	6' CHAIN LINK FENCE	L.F.	60
12.	551	6" FIRE HYDRANT W/ GATE VALVE & BOX	E.A.	1
13.	129	6" D.I. PIPE	L.F.	65
14.	500	CATCH BASIN, SINGLE, TYPE "D"	E.A.	1
15.	340	WHEELCHAIR RAMP	S.Y.	9.33
16.	19	TRAFFIC HANDLING	L.B.	1
17.	340	6' SIDEWALK	S.Y.	232
18.	340	40' DRIVEPADS	S.Y.	95.33
ITEM NO.	SPEC. NO.	ITEM - ALTERNATE "B" (CHANGES AND ADDITIONS TO ALT. "A")	UNIT	QUANTITY
19.	121	DOUBLE 60" x 100' R/C VAL PIPE - CL HE-III (780 L.F. PIPE), IN PLACE	L.F.	340
20.	500	R/C JUNCTION BOX	L.B.	1
21.	115	ASPHALT PAVEMENT, ARTERIAL & COLLECTOR	S.Y.	350
22.	115	ASPHALT PAVEMENT, RESIDENTIAL	S.Y.	1,500
23.		DEWATERING, ALT. "B"	L.S.	1
ITEM NO.	SPEC. NO.	ITEM - AZTEC ROAD	UNIT	FINAL QUANTITY
24.		SITE PREPARATION	L.B.	1
25.	130	7'-11" x 5'-7" CORRUGATED METAL PIPE ARCH, IN PLACE	L.F.	50
26.	130	END SECTION, 7'-11" x 5'-7" CMPA, IN PLACE	E.A.	2
27.	212	GROUTED RIP RAP, 1' THICK	S.Y.	127
28.	115	ASPHALT PAVEMENT, RESIDENTIAL	S.Y.	398.22
29.	340	12' DRIVEPADS	S.Y.	26.67
30.	340	STANDARD CURB & GUTTER	L.F.	250
31.	340	5' SIDEWALK	S.Y.	98.80
32.	522	PEDESTRIAN GUARD RAIL	L.F.	60
33.	340	WHEELCHAIR RAMPS	S.Y.	13.50
34.	500	CATCH BASIN, SINGLE, TYPE "C"	E.A.	1
ITEM NO.	SPEC. NO.	ITEM - VERANDA ROAD	UNIT	FINAL QUANTITY
35.		SITE PREPARATION	L.B.	1
36.	130	7'-11" x 5'-7" CORRUGATED METAL PIPE ARCH, IN PLACE	L.F.	50
37.	130	END SECTION, 7'-11" x 5'-7" CMPA, IN PLACE	E.A.	2
38.	212	GROUTED RIP RAP, 1' THICK	S.Y.	127
39.	115	ASPHALT PAVEMENT, RESIDENTIAL	S.Y.	384.22
40.	340	12' DRIVEPADS	S.Y.	26.67
41.	340	STANDARD CURB & GUTTER	L.F.	244
42.	340	5' SIDEWALK	S.Y.	97.75
43.	522	PEDESTRIAN GUARD RAIL	L.F.	63
44.	340	WHEELCHAIR RAMPS	S.Y.	13.50
45.	500	CATCH BASIN, SINGLE, TYPE "C"	E.A.	2

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APPROVED FOR
CONSTRUCTION

CITY ENGINEER DATE

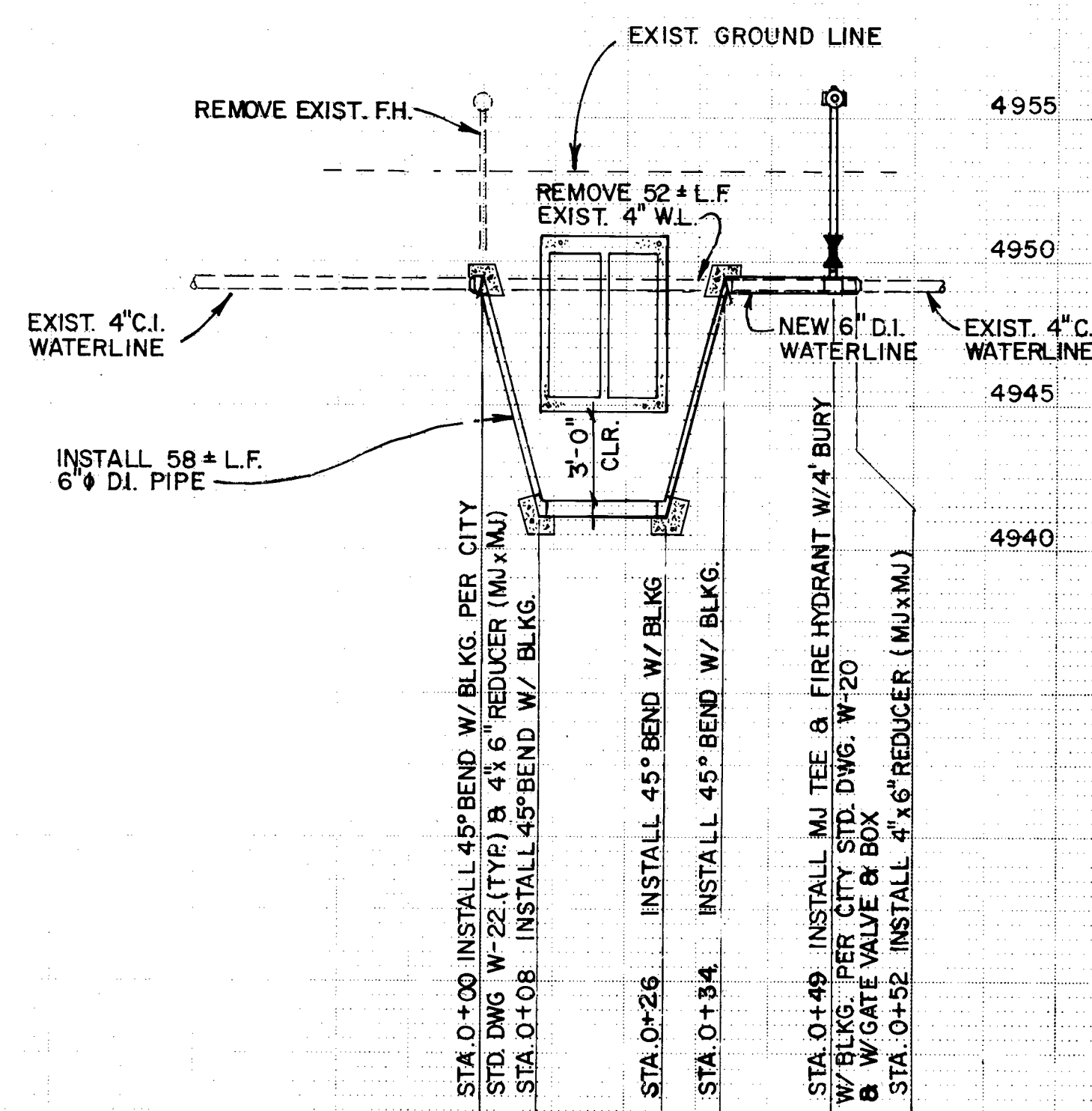
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. - Design			Traffic		
A.C.E. - Hydrology			Water		

DRAWING NO.	1544	MAP NO.	SHEET 2 OF 22
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SCALE : $1'' = 20'$

SCALE : HORIZ 1" = 20'
 VERT 1" = 5'



ALL EXISTING POWER POLES, LIGHT POLES AND PRIVATE SIGN POLES IN CONFLICT WITH PROJECT ARE TO BE REMOVED BY THE RESPECTIVE OWNERS, PRIOR TO THE BEGINNING OF CONSTRUCTION.

ALL OTHER FACILITIES, UNLESS OTHERWISE INDICATED, SHALL BE HANDLED BY THE CONTRACTOR.

1. ACS BM. NO. 10-1J2X" CHISELED ON BONNET
BOLT OF RH, LOCATED ON WEST SIDE OF CENTRAL
AVE., IN 2600 BLK., IN FRONT OF "CASA GRANDE
MOTEL," EL. 4956-300

SURVEY INFORMATION		FIELD NOTES	DATE
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△	12/782	EXISTING ALIGNMENT CHANGES	J.D.M.
	NO.	DATE	REMARKS
			BY
			<i>REVISIONS</i>
			DESIGN
	DESIGNED BY	DATE	12/81
	DRAWN BY	DATE	12/81
	CHECKED BY	DATE	12/81
			J.A. VIGIL
			B.C. MORALES
			W.L. STAPLES

26 1544 0484

RECORD DRAWING

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Boyle Engineers 6/6/83

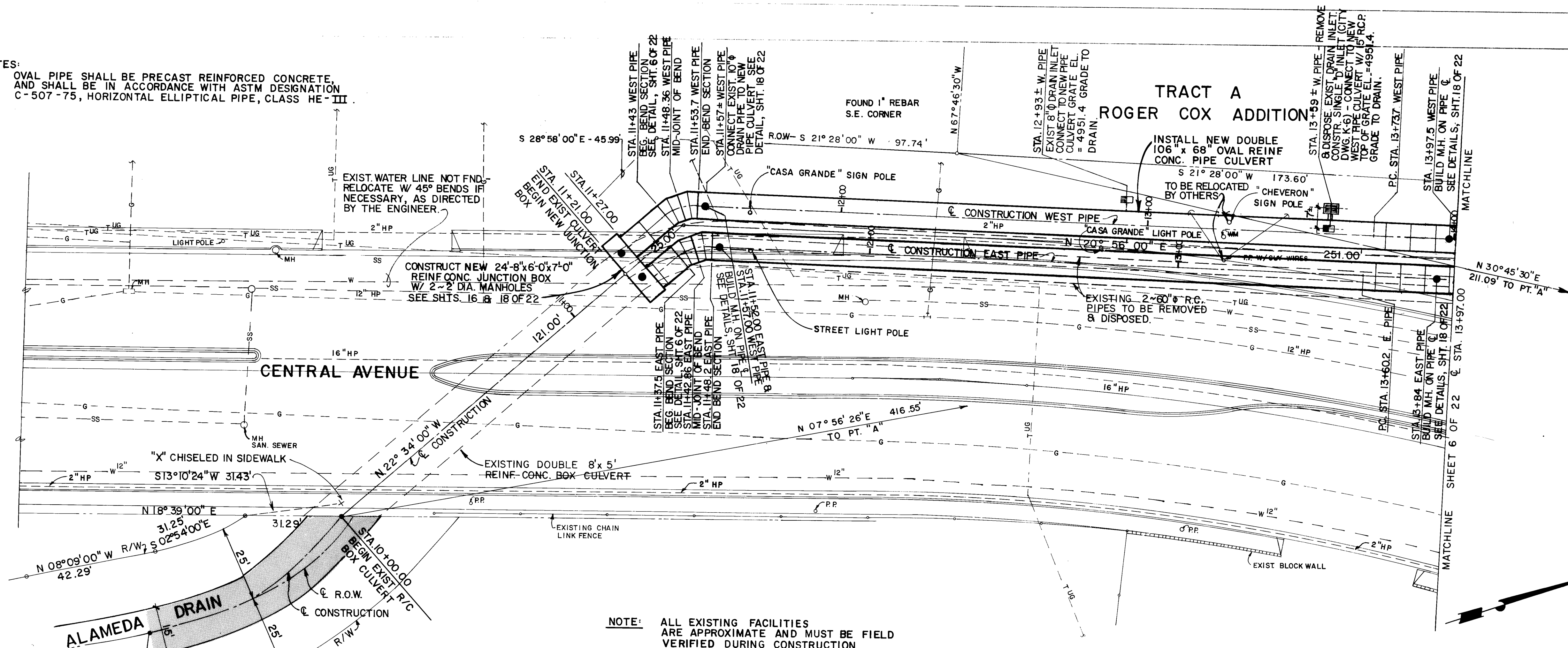
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: **VALLEY DRAINAGE STRUCTURES
CENTRAL AVE CROSSING**

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

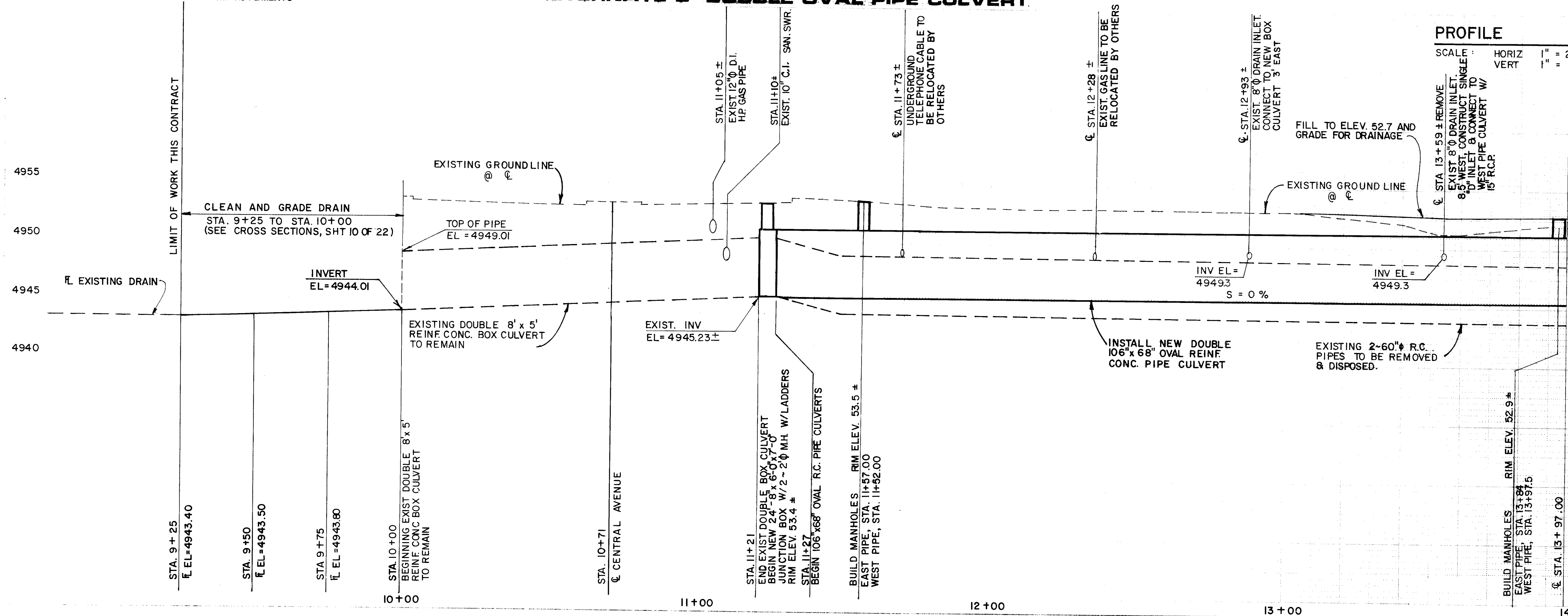
DRAWING NO.	1544	MAP NO.	SHEET	4	OF	2
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NOTES:
OVAL PIPE SHALL BE PRECAST REINFORCED CONCRETE,
AND SHALL BE IN ACCORDANCE WITH ASTM DESIGNATION
C-507-75, HORIZONTAL ELLIPTICAL PIPE, CLASS HE-III



NOTE: ALL EXISTING FACILITIES
ARE APPROXIMATE AND MUST BE FIELD
VERIFIED DURING CONSTRUCTION.

ALTERNATE "B" DOUBLE OVAL PIPE CULVERT



PLAN

SCALE : 1" = 20'

PROFILE

SCALE : HORIZ 1" = 20'

 VERT 1" = 5'

LEGEND

EXISTING UTILITIES	
— G —	EXIST GAS LINE
— W —	EXIST WATER LINE
— T ^{UG} —	EXIST TELEPHONE
— SS —	EXIST SANITARY SEWER LINE
— ST S —	EXIST STORM SEWER LINE
WM	EXIST WATER METER
P.P.	EXIST POWER POLE

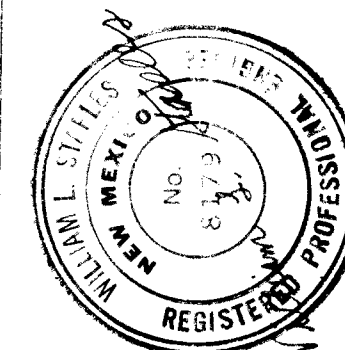
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BENCH MARKS

ACS BM. NO. 10-J12,"X" CHISELED ON BONNET
BOLT OF FH., LOCATED ON WEST SIDE OF CENTRAL
AVE., IN 2600 BLK., IN FRONT OF "CASA GRANDE
MOTEL," EL. 4956.300

SURVEY INFORMATION

ENGINEER'S SEAL



NO	DATE	REMARKS	BY
<i>REVISED</i>			
<i>DESIGN</i>			
		W. L. STAPLES	12/81
		B. C. MORALES	12/81
		J. A. VIGIL	12/81

RECORD DRAWING

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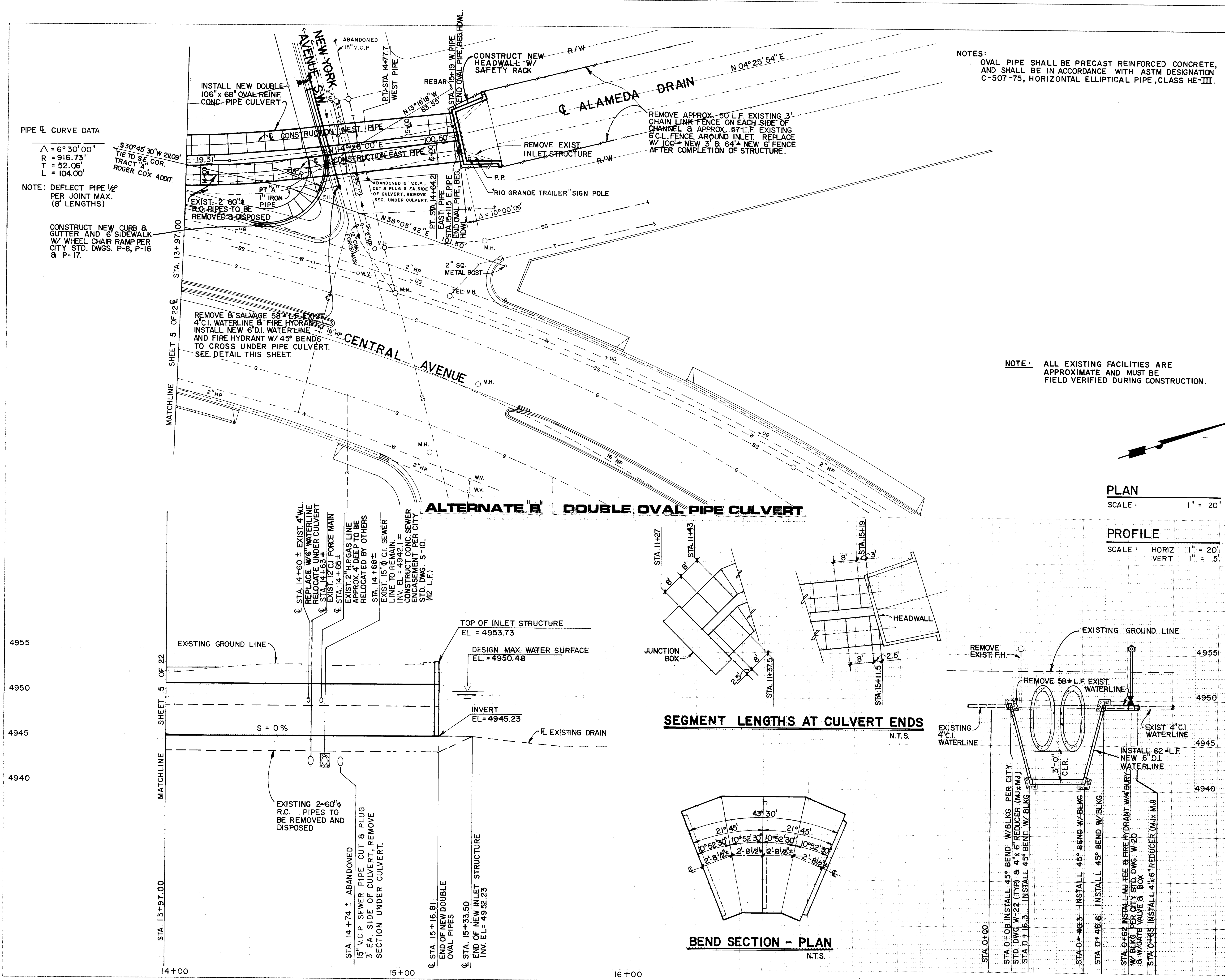
Boyle Engineering Corporation 4/16/83

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: **VALLEY DRAINAGE STRUCTURES
CENTRAL AVE CROSSING**

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

DRAWING NO	1544	MAP NO.	SHEET	5	OF	22
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LEGEND
EXISTING UTILITIES
— G — EXIST GAS LINE
— W — EXIST WATER LINE
— T — EXIST TELEPHONE
— SS — EXIST SANITARY SEWER LINE
— ST — EXIST STORM SEWER LINE
WM EXIST WATER METER
P.P. EXIST POWER POLE

NOTE:
THE CONTRACTOR SHALL WORK CLOSELY WITH GAS CO. OF N.M. TO SUPPORT AND RELOCATE GAS MAINS THAT ARE IN CONFLICT WITH THE PROJECT.

ALL EXISTING POWER POLES, LIGHT POLES AND PRIVATE SIGN POLES IN CONFLICT WITH PROJECT ARE TO BE REMOVED BY THE RESPECTIVE OWNERS, PRIOR TO THE BEGINNING OF CONSTRUCTION. ALL OTHER FACILITIES, UNLESS OTHERWISE INDICATED, SHALL BE HANDLED BY THE CONTRACTOR.

AS BUILT INFORMATION
BENCH MARKS
1. ACS BM NO. 10-112, CHISELED ON BONNET BOLT OF FH, LOCATED ON WEST SIDE OF CENTRAL AVE., IN 2800 BLK. IN FRONT OF "CASA GRANDE MOTEL," EL. 4956.300

ENGINEER'S SEAL

NO.	DATE	REVISIONS	BY
		DESIGN	

TITLE:
VALLEY DRAINAGE STRUCTURES
CENTRAL AVE CROSSING

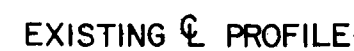
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. - Design			Traffic		
A.C.E. - Hydrology			Water		

DRAWING NO.	1544	MAP NO.		SHEET	6	OF	22
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SCALE: $1'' = 20'$

SCALE: HORIZ. 1" = 20'
VERT. 1" = 5'

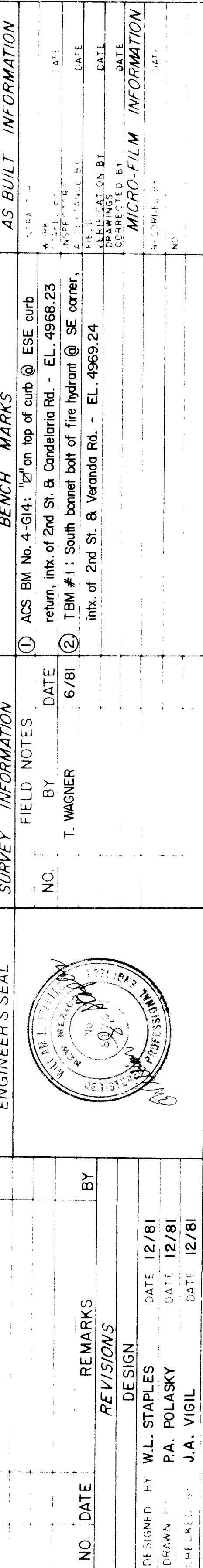


7'-11" x 5'-7" CMPA
GA 14 WITH 3" x 1"
CORRUGATIONS.

EXIST. 6" WATERLINE
TO REMAIN

- (1) CONSTRUCT PAVEMENT PER CITY STD. DWGS. P-2 AND P-7, STD. RESIDENTIAL STREETS SECTION.
- (2) CONSTRUCT STD. CURB & GUTTER TYPE II PER CITY STD. DWG. P-8.
- (3) CONSTRUCT SIDEWALK PER CITY STD. DWG. P-13 & DETAILS, SHT 9 OF 22.
- (4) SEE DETAILS, SHT. 9 OF 22.
- (5) CONSTRUCT DRIVEPAD PER CITY STD. DWG. P-11.
- (6) REMOVE EXISTING RETURN AS SHOWN. CONSTRUCT NEW 25" RETURN W/ WHEEL CHAIR RAMP AS PER CITY STD. DWG. P-17-1.
- (7) CONSTRUCT DRAINAGE CATCH BASIN SINGLE TYPE "C" PER CITY STD DWG. K-4-1. CONNECT TO EXISTING DRAIN PIPE. REMOVE EXISTING INLET STRUCTURE.

SHOULD EXISTING CLOSURE
(CABLE) BE OPENED OR REMOVED
PRIOR TO THE OPENING OF THE
ROADWAY, TYPE III BARRICADES
WITH "ROAD CLOSED" SIGNS SHALL
BE INSTALLED.



26 1544 0884

RECORD DRAINING

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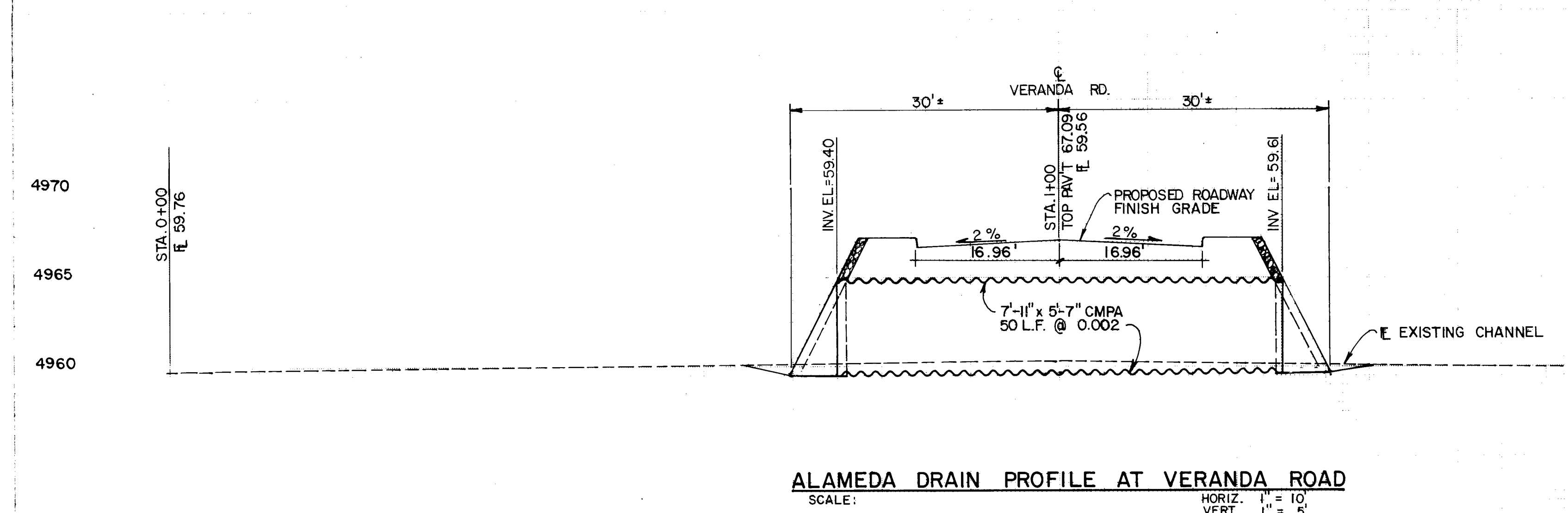
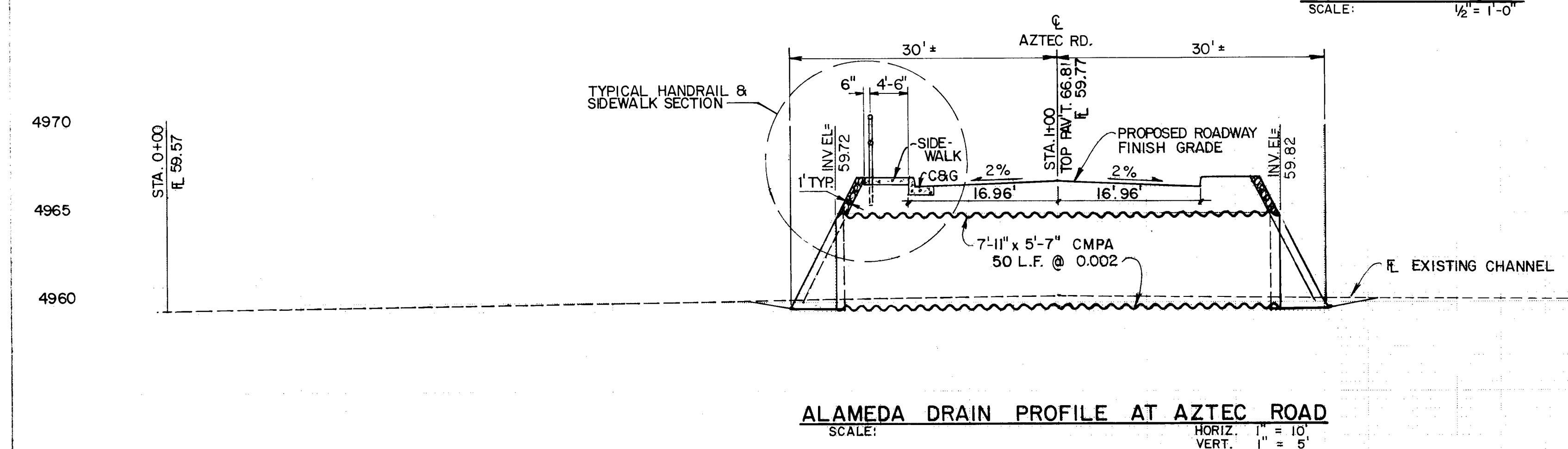
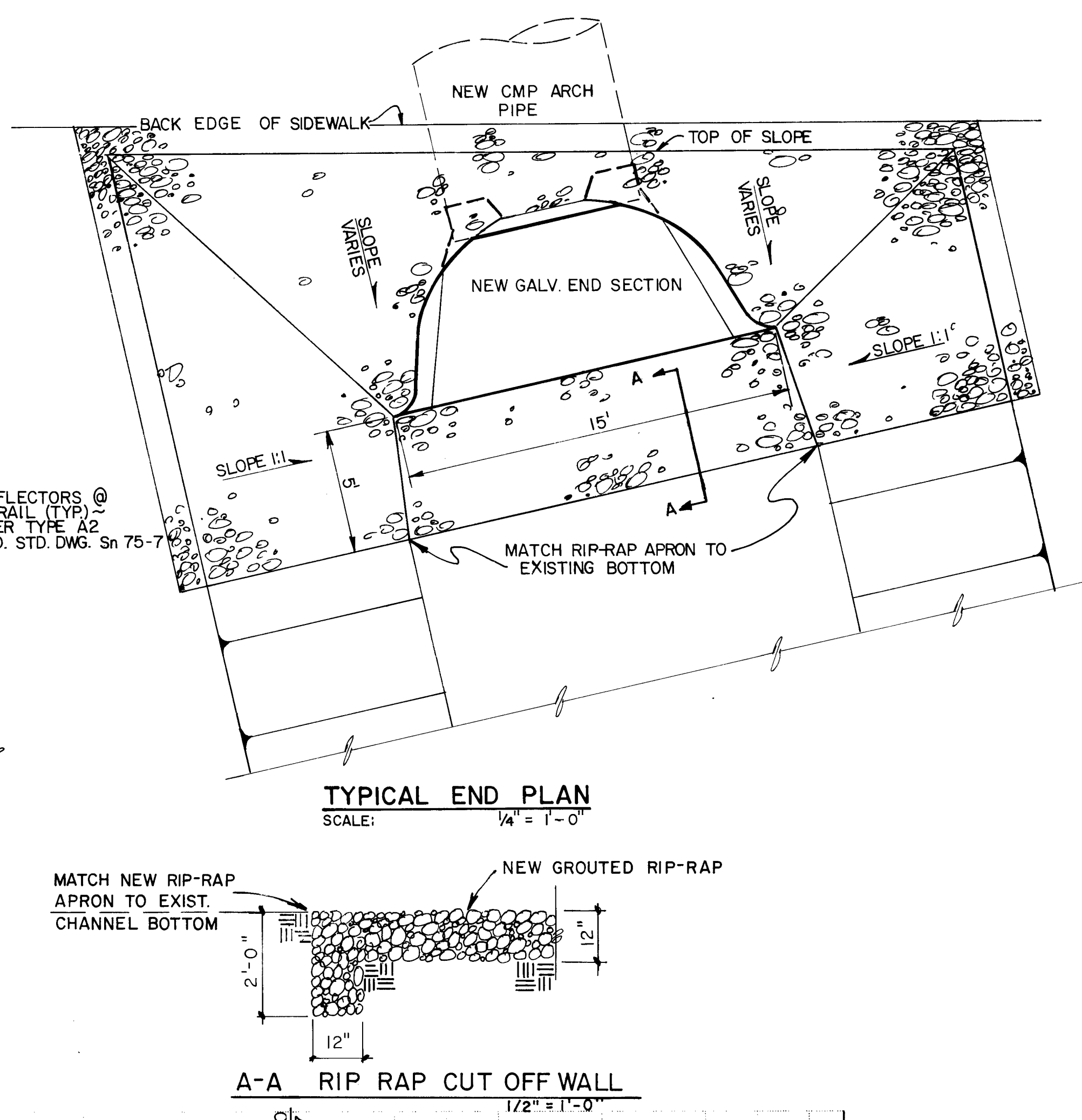
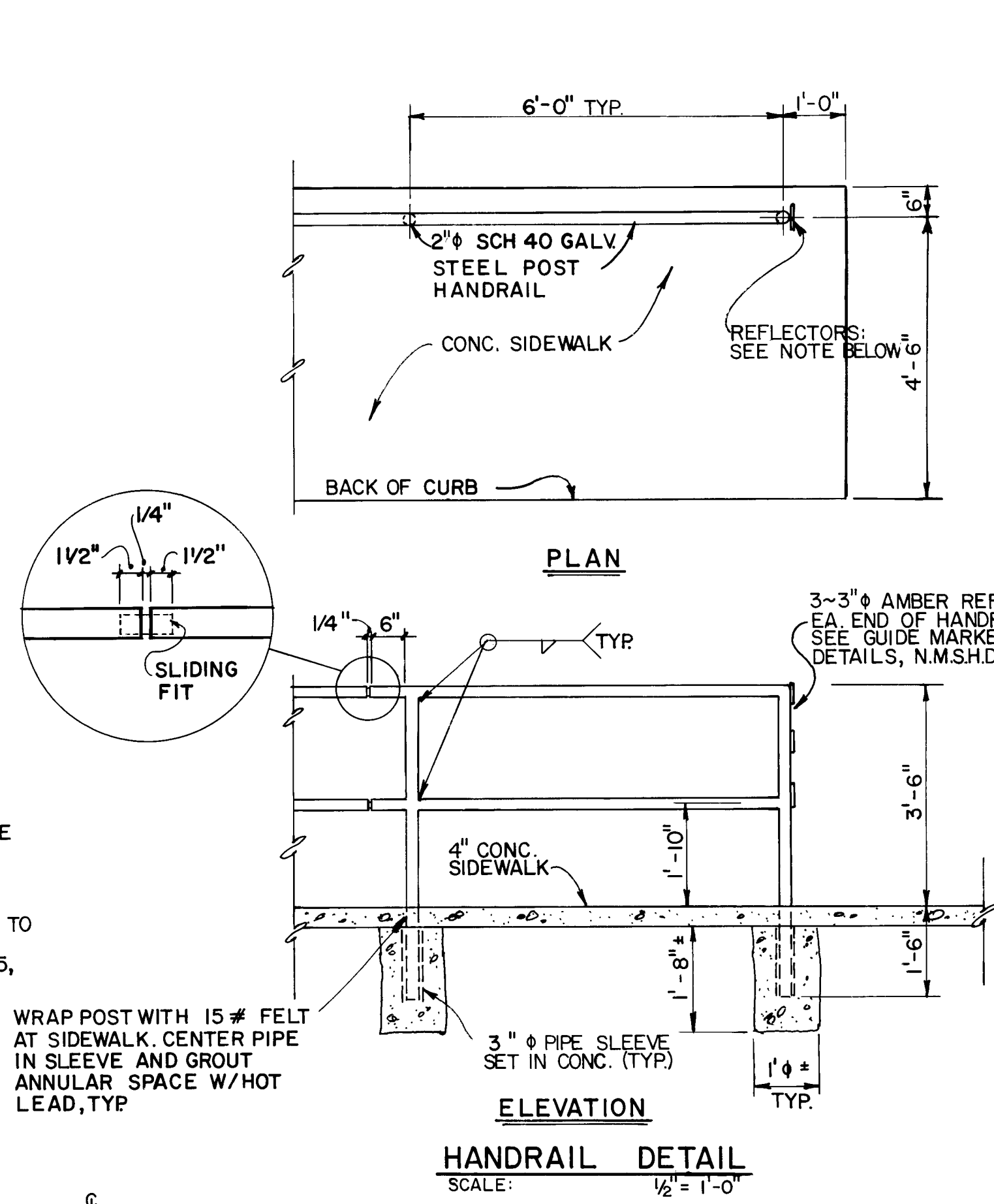
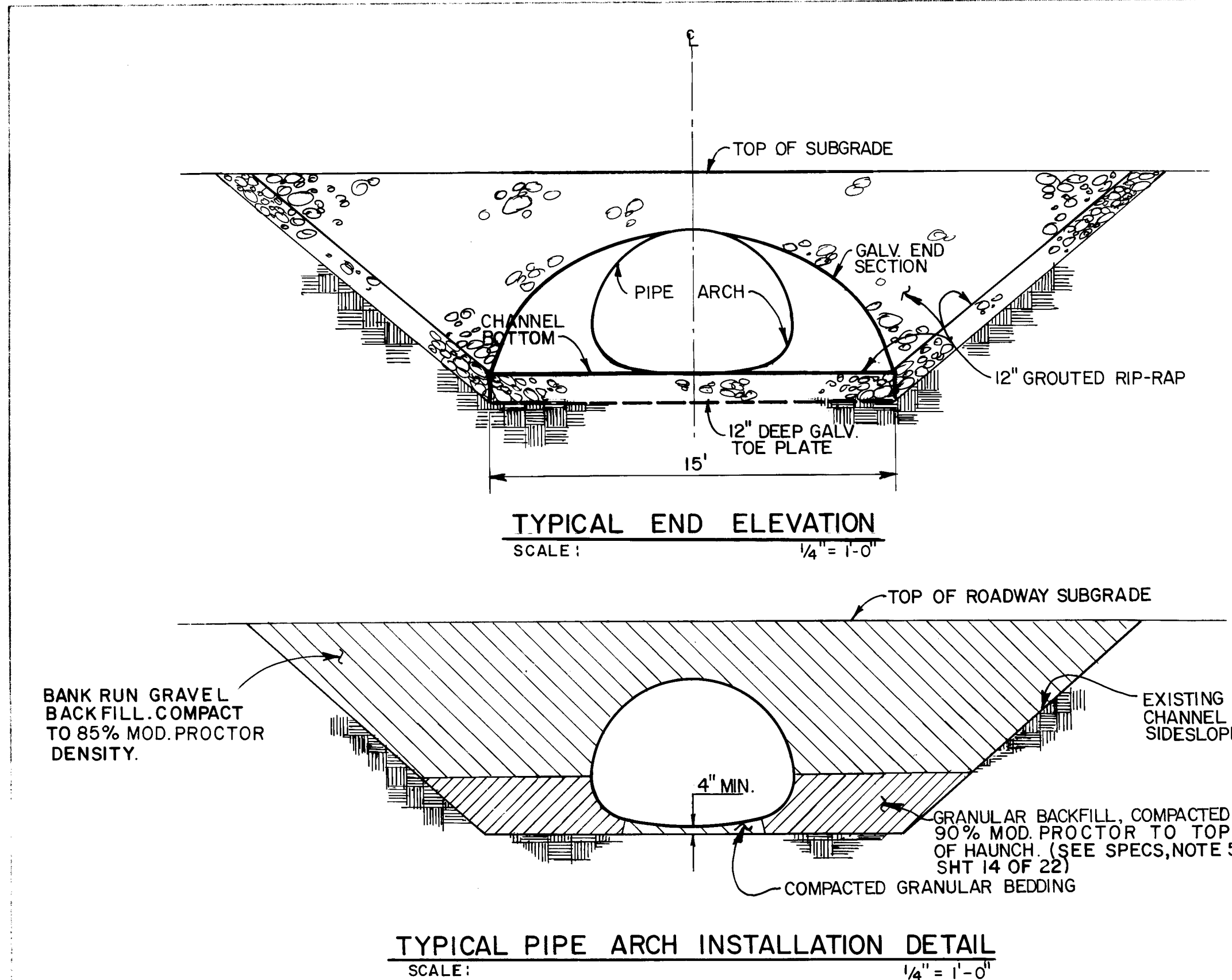
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: **VALLEY DRAINAGE STRUCTURES
VERANDA CROSSING**

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

DRAWING NO.	1544
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MAP NO.	SHEET	8	22
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22 1544 0784

RECORD DRAWING

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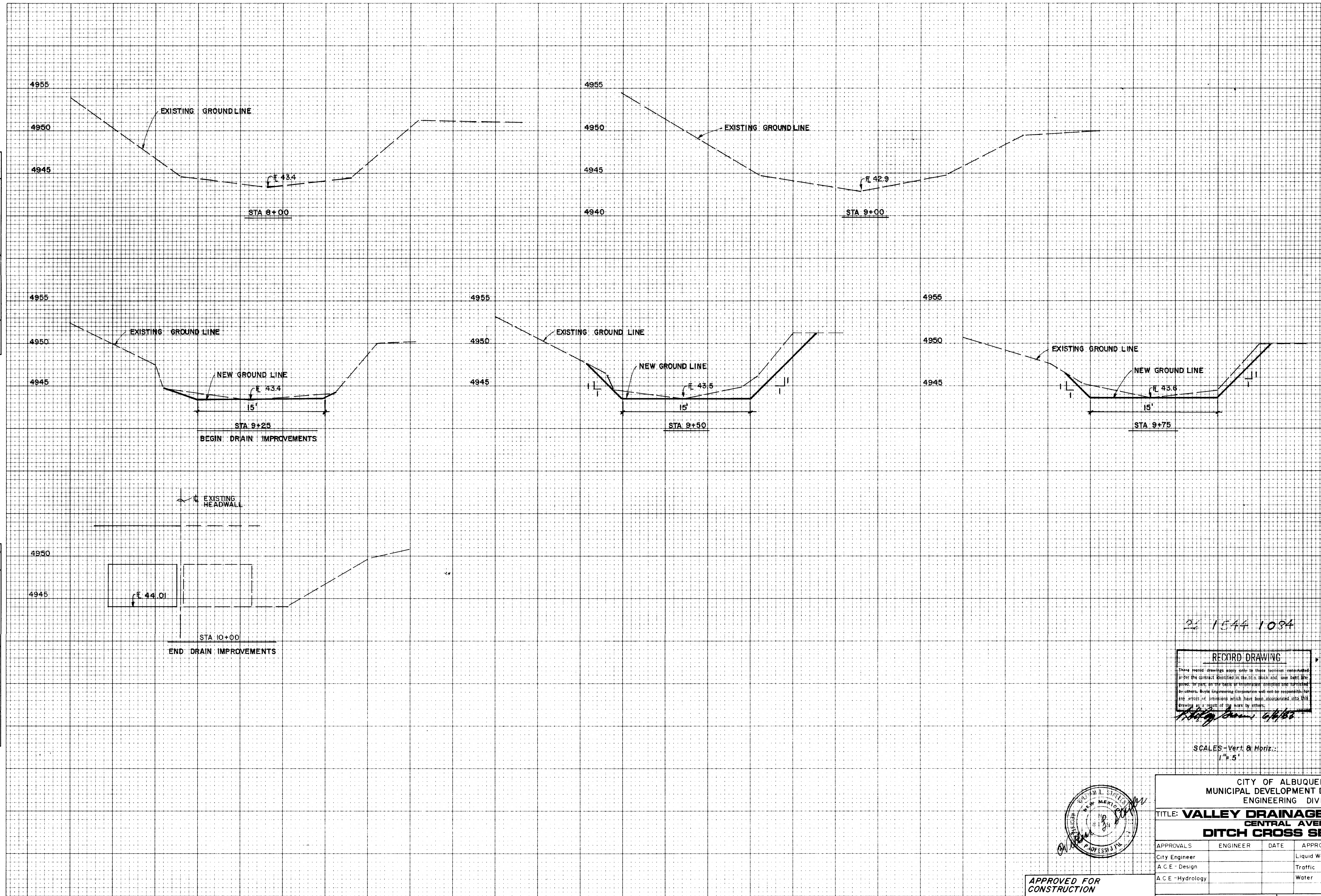
R. J. Boyle 4/8/82

CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION					
TITLE: VALLEY DRAINAGE STRUCTURES DETAILS - 2ND STREET					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A C E - Design			Traffic		
A C E - Hydrology			Water		
DRAWING NO. 1544		MAP NO.		SHEET 9 22	

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
		FIELD NOTES		SEE PLAN & PROFILE SHEETS			
		NO.	BY	DATE			

FINAL SURVEY	DATE
BY	
NO	

ORIGINAL SURVEY	DATE
BY	
NO	

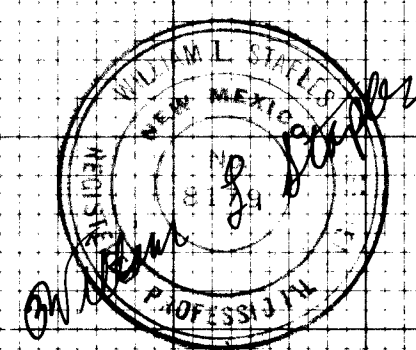


AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		REFERENCES		REVISIONS	
DATE	BY	DATE	BY	DATE	BY	DATE	BY	DATE	BY
MICRO-FILM INFORMATION		FIELD NOTES		NO		W.O. NO		NO	
DATE	BY	DATE	BY	DATE	BY	DATE	BY	DATE	BY
RECORDING BY		NO		NO		NO		NO	
DATE		DATE		DATE		DATE		DATE	

1544 1034

RECORD DRAWING
This record drawing is to be used for the location of the structure shown on the drawing. It is not to be used for the design of the structure. The design of the structure is the responsibility of the engineer who prepared the drawing. The engineer who prepared the drawing is responsible for the accuracy of the information shown on the drawing. The engineer who prepared the drawing is responsible for the accuracy of the information shown on the drawing. The engineer who prepared the drawing is responsible for the accuracy of the information shown on the drawing.

SCALES - Vert. & Horiz.:
1" = 5'



APPROVED FOR
CONSTRUCTION

CITY ENGINEER DATE

CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION					
TITLE: VALLEY DRAINAGE STRUCTURES CENTRAL AVENUE DITCH CROSS SECTIONS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. - Design			Traffic		
A.C.E. - Hydrology			Water		
DRAWING NO. 1544		MAP NO.		SHEET 10 OF 22	

ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	AREAS CHECKED _____		
NO _____			

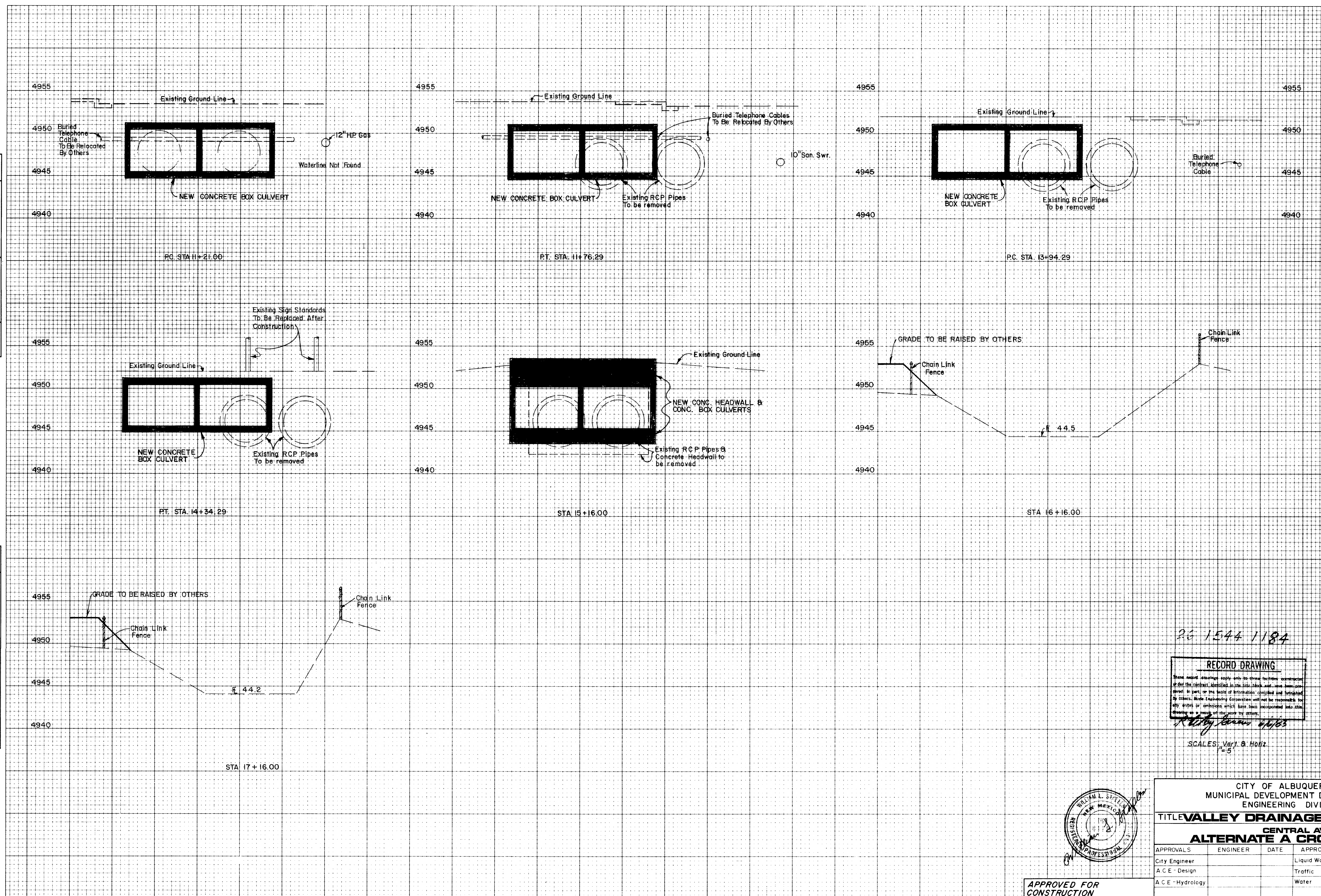
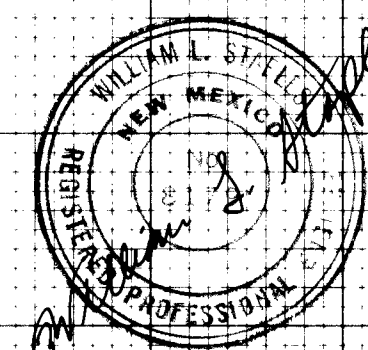


PLATE 3 FULL CROSS SECTION
CHARLES BRUNING COMPANY
MADE IN U.S.A.



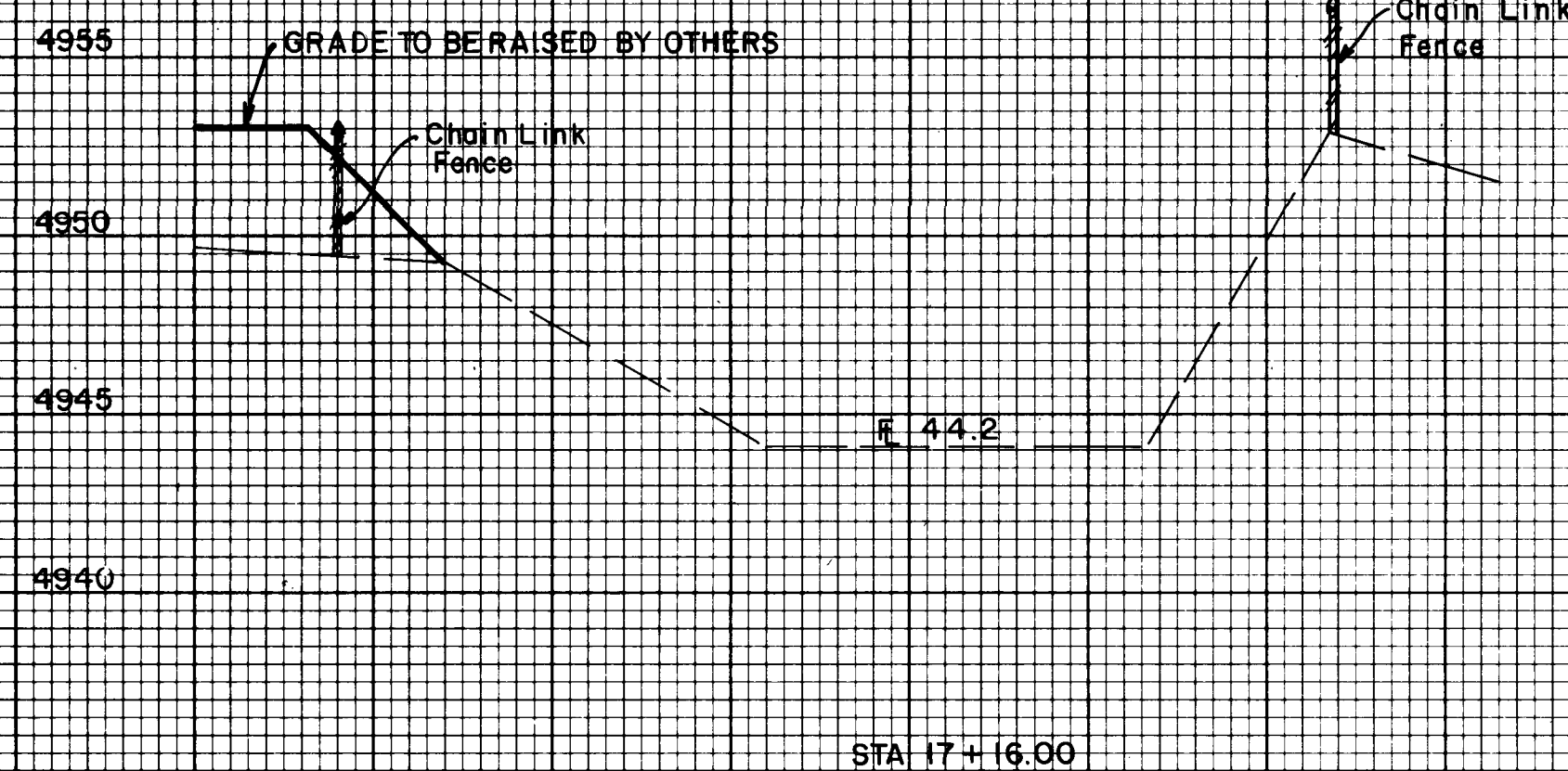
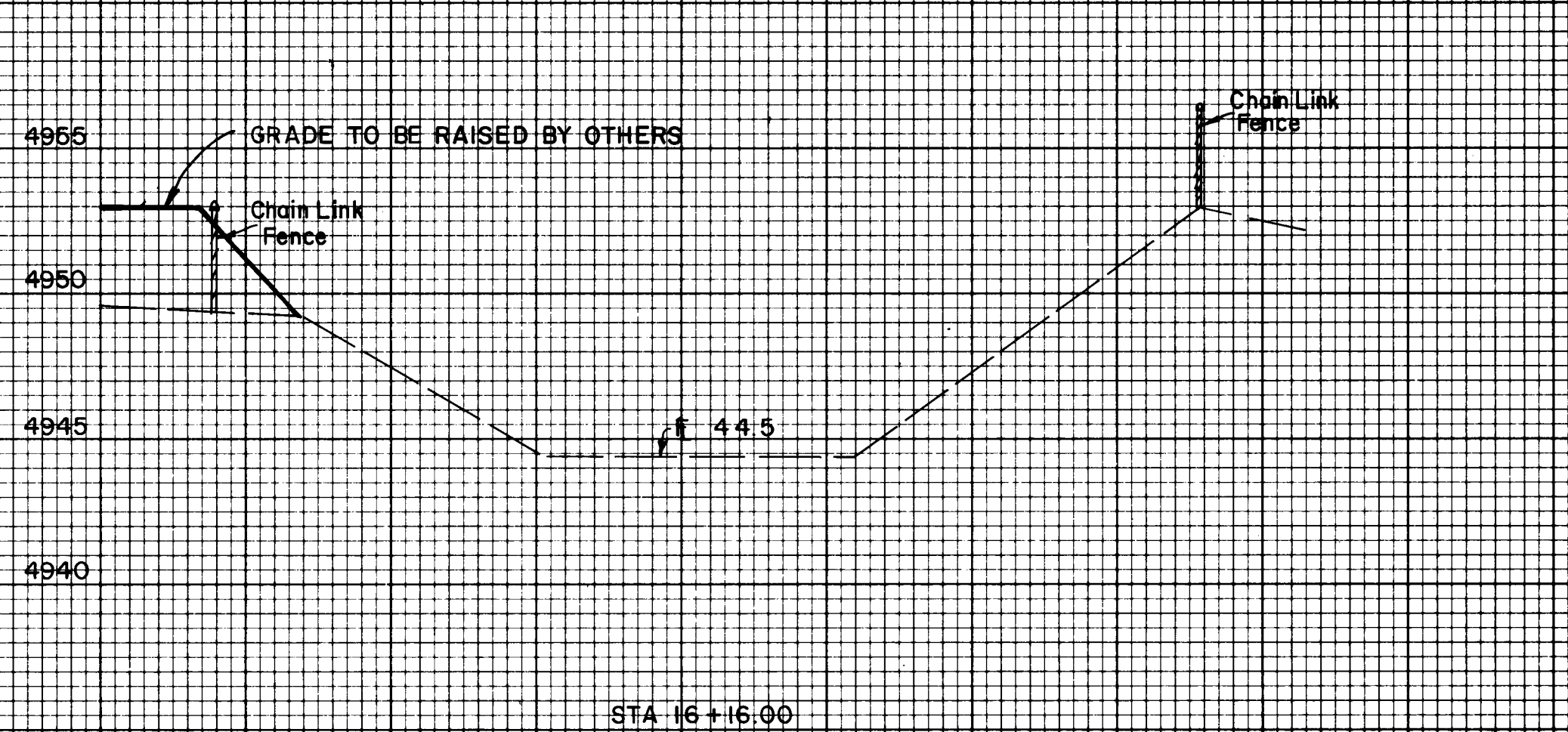
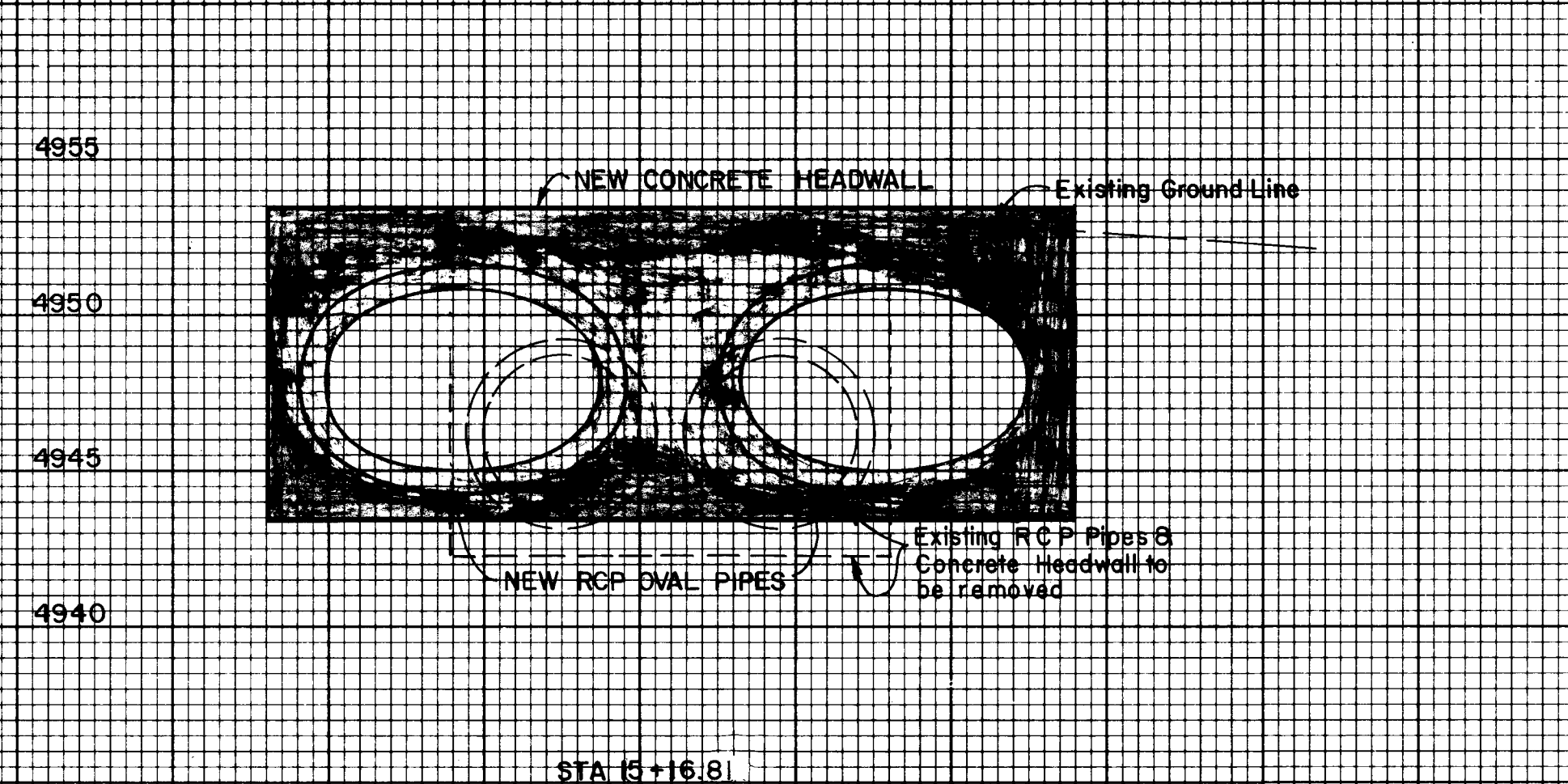
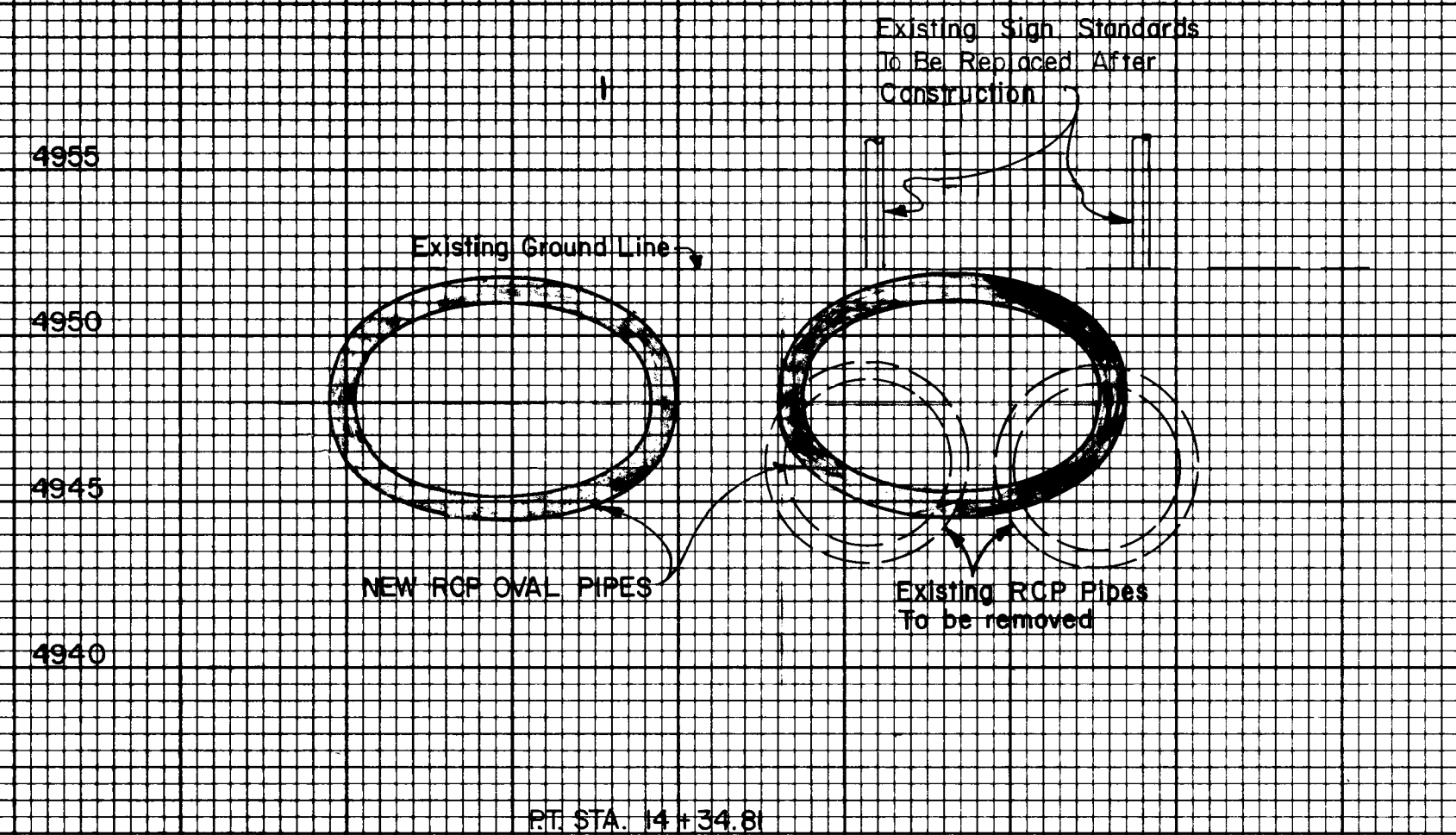
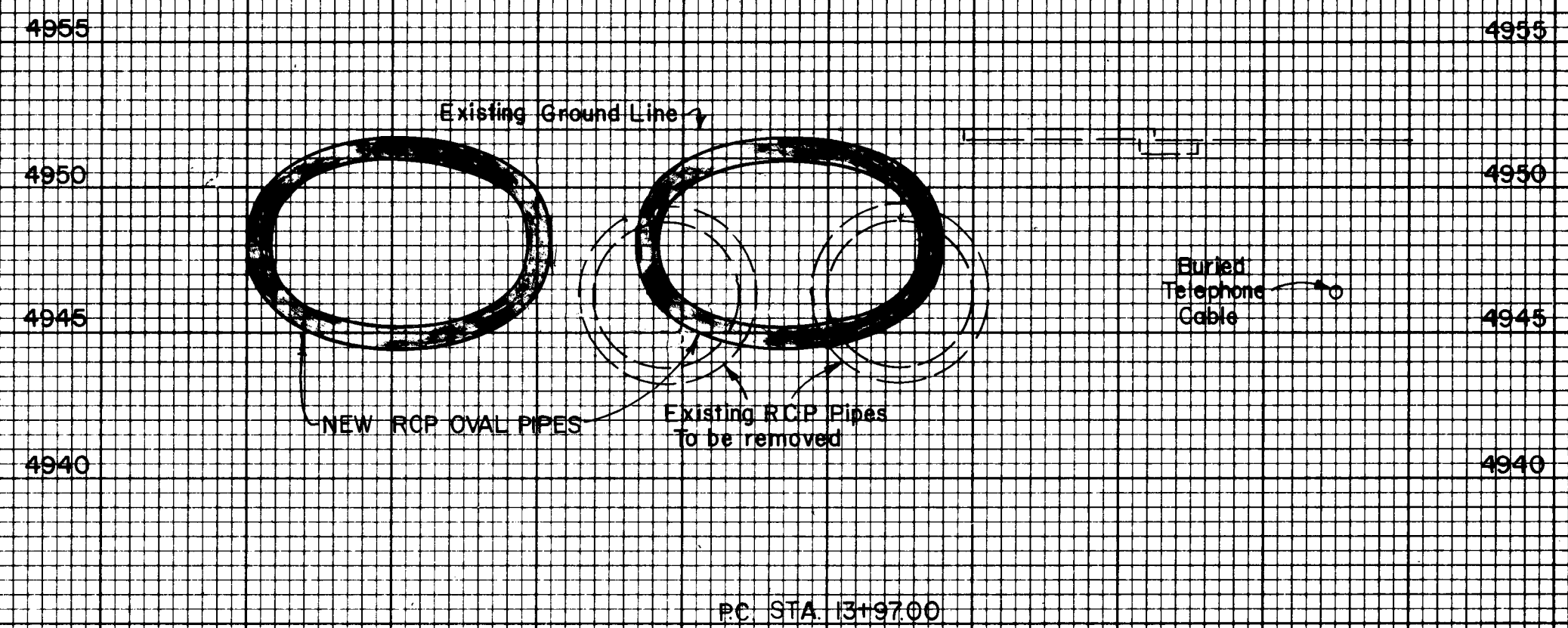
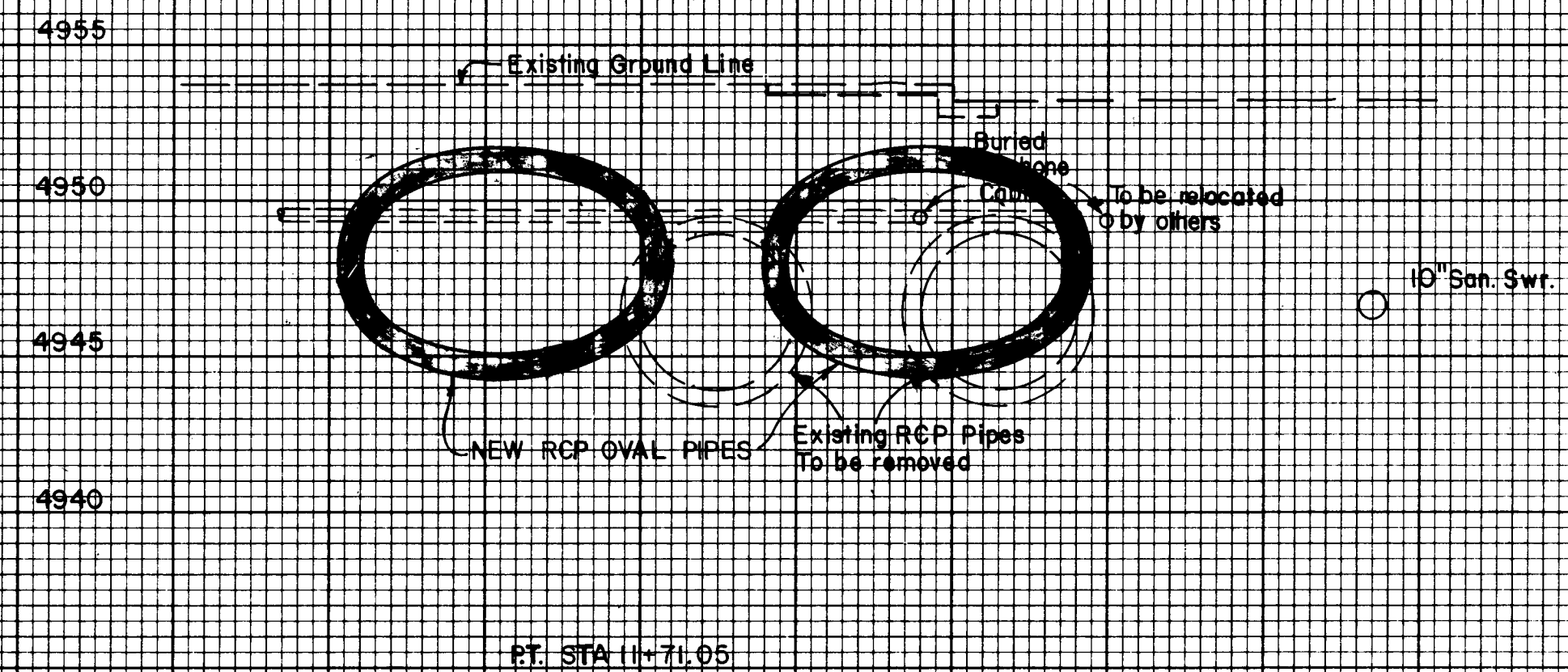
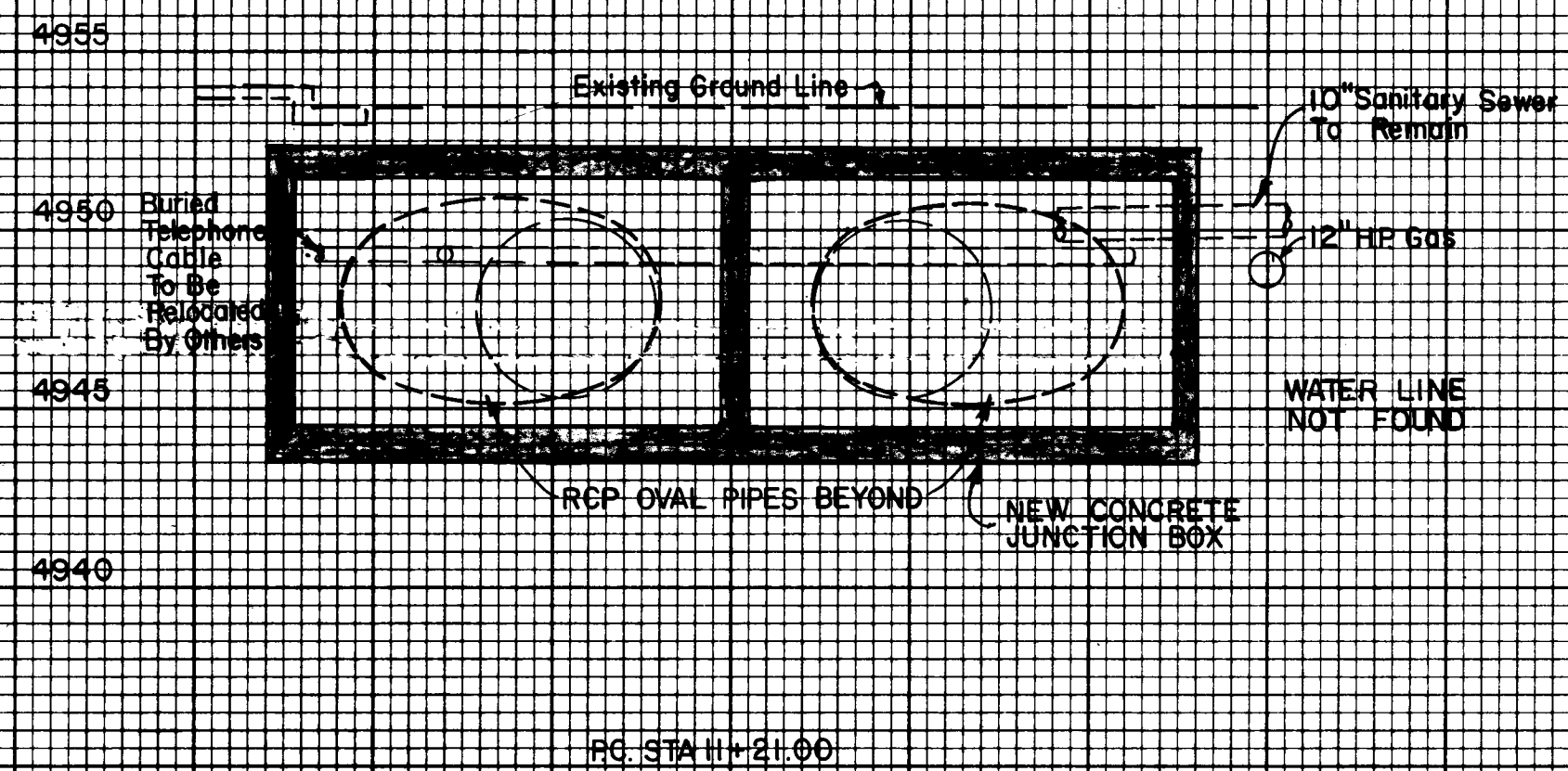
**APPROVED FOR
CONSTRUCTION**

CITY ENGINEER

CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION					
TITLE VALLEY DRAINAGE STRUCTURES					
CENTRAL AVENUE ALTERNATE A CROSS SECTIONS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A C E - Design			Traffic		
A C E - Hydrology			Water		
DRAWING NO. 1544		MAP NO.		SHEET 11 OF 22	

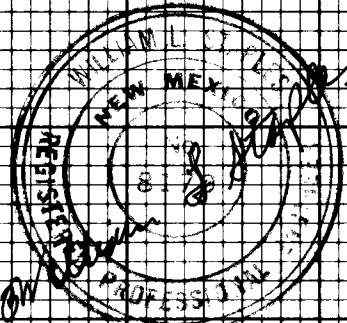
FINAL	DATE
SURVEY	BY
NOTE BOOK	NO.
PLOTTED	DATE
TEMPLATE	BY
AREAS CHECKED	NO.

ORIGINAL	DATE
SURVEY	BY
NOTE BOOK	NO.
PLOTTED	DATE
TEMPLATE	BY
AREAS CHECKED	NO.



RECORD DRAWING
 These record drawings apply only to those structures constructed under the contract identified in the title block and have been prepared in part for the project information, completed and furnished by others. Boyle Engineering Corporation will not be responsible for any errors or omissions which may have been incorporated into this drawing as a result of the work by others.
Robert G. Boyle 6/6/83

SCALE: VARY & HORIZ
 1"=5'



APPROVED FOR CONSTRUCTION

CITY ENGINEER DATE

CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION					
TITLE VALLEY DRAINAGE STRUCTURES					
CENTRAL AVENUE ALTERNATE B CROSS SECTIONS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. - Design			Traffic		
A.C.E. - Hydrology			Water		
DRAWING NO.	1544	MAP NO.	SHEET 12 OF 22		

PLATE 3 FULL CROSS SECTION
 CHARLES BRUNING COMPANY
 MADE IN U.S.A.

26 1544 1284

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		REFERENCES		REVISIONS	
CONTRACTOR	NO.	CONTRACTOR	NO.	MAP NO.	EST. NO.	W.O. NO.	BY	DATE	DATE
STAKED BY	DATE	STAKED BY	DATE	FIELD NOTES	NO.	NO.	NO.	NO.	NO.
ACCEPTANCE BY	DATE	ACCEPTANCE BY	DATE						
FIELD VERIFICATION BY	DATE	FIELD VERIFICATION BY	DATE						
DRAWINGS CORRECTED BY	DATE	DRAWINGS CORRECTED BY	DATE						
MICRO-FILM INFORMATION	NO.	MICRO-FILM INFORMATION	NO.						
RECORDED BY	DATE	RECORDED BY	DATE						

FINAL	SURVEYED	BY	DATE
SURVEY	PLOTTED		
NOTE BOOK	AREA		
NO.	AREA CHECKED		

ORIGINAL	SURVEYED	BY	DATE
SURVEY	PLOTTED		
NOTE BOOK	AREA		
NO.	AREA CHECKED		

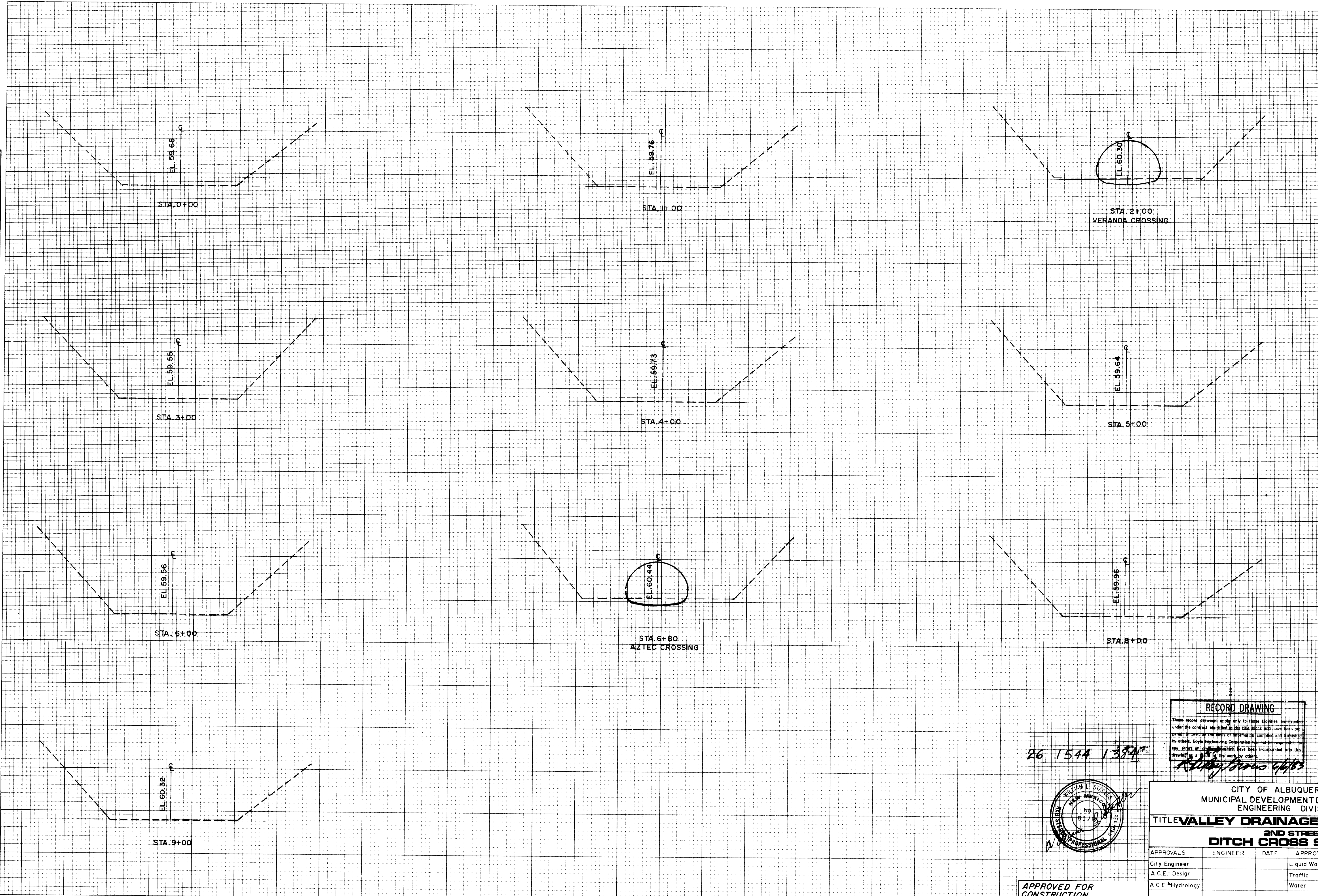
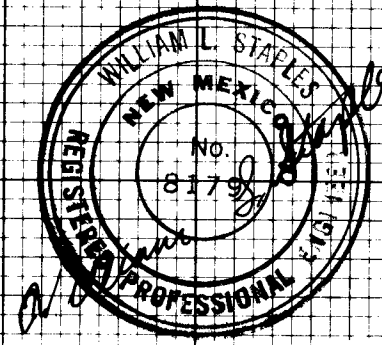


PLATE 3 FULL CROSS SECTION
CHARLES BRUNING COMPANY
MADE IN U.S.A.

26.1544 1384



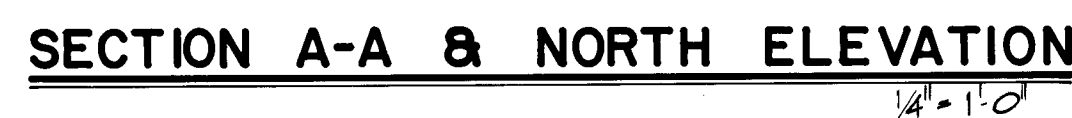
APPROVED FOR
CONSTRUCTION

CITY ENGINEER DATE

RECORD DRAWING
These record drawings apply only to those facilities constructed under the contract identified in the title block and have been prepared in part on the basis of information compiled and furnished by others. While engineering supervision will not be responsible for the errors of construction, these items incorporated into this drawing as a part of the work by others.
W.L. Staples

CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION					
TITLE VALLEY DRAINAGE STRUCTURES					
2ND STREET					
DITCH CROSS SECTIONS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. - Design			Traffic		
A.C.E. - Hydrology			Water		
DRAWING NO. 1544			SHEET 13 OF 22		

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		REFERENCES		REVISIONS		DESIGN	
CONTRACT NO.	NO.	DATE	NO.	DATE	NO.	DATE	MAP NO.	EST. NO.	W.O. NO.	NO.	DATE
DESIGNED BY	W.L. STAPLES	DATE	12/81	DRAWN BY	FLO LUCERO	DATE	12/81	CHECKED BY	J.A. VIGIL	DATE	12/81
INSPECTED BY		DATE		VERIFICATION BY		DATE					
FIELD CORRECTION BY		DATE		CORRECTED BY		DATE					
MICRO-FILM INFORMATION		RECORDED BY		DATE							



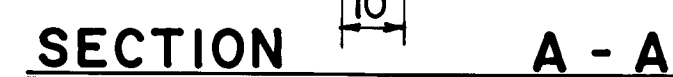
SIEVE SIZE
 2 1/2" 100
 1 1/2" 80-96
 1/2" 58-74
 NO. 4 36-52
 NO. 40 9-17
 NO. 200 0-3

CITY ENGINEER

CITY OF ALBUQUERQUE					
MUNICIPAL DEVELOPMENT DEPARTMENT					
ENGINEERING DIVISION					
TITLE VALLEY DRAINAGE STRUCTURES					
CENTRAL AVENUE					
BOX CULVERT DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E.- Design			Traffic		
A.C.E. - Hydrology			Water		
DRAWING NO. 1544		MAP NO.		SHEET 14 OF 22	

				REFERENCES				SURVEY INFORMATION				BENCH MARKS				AS BUILT INFORMATION			
				MAP NO.						FIELD NOTES				CONTRACTOR					
				EST. NO.		W.O. NO.		NO.		BY		DATE		WORKS STARTED BY INSPECTORS ACCEPTANCE BY DATE					
				NO.		DATE		REMARKS		BY		DATE							
REVISIONS																			
DESIGN																			
DESIGNED BY				WL STAPLES				DATE				12/81							
DRAWN BY				P.A. POLASKY				DATE				12/81							
CHECKED BY				J.A. VIGIL				DATE				1/82							
MICRO-FILM INFORMATION																			
				RECORDED BY				DATE				NO							

West Box - to be 1st phase construction	East Box - to be constructed after West Box is complete & placed in service
--	--



1. FOR BOX CULVERT MATERIALS AND WORKMANSHIP SPECIFICATION, SEE BAR SCHEDULE, BAR DETAILS AND GENERAL NOTES ON SHEET 16 OF 22.
2. CHAMFER ALL EXPOSED EDGES $3/4"$ EXCEPT AS NOTED.

26 1544 1584

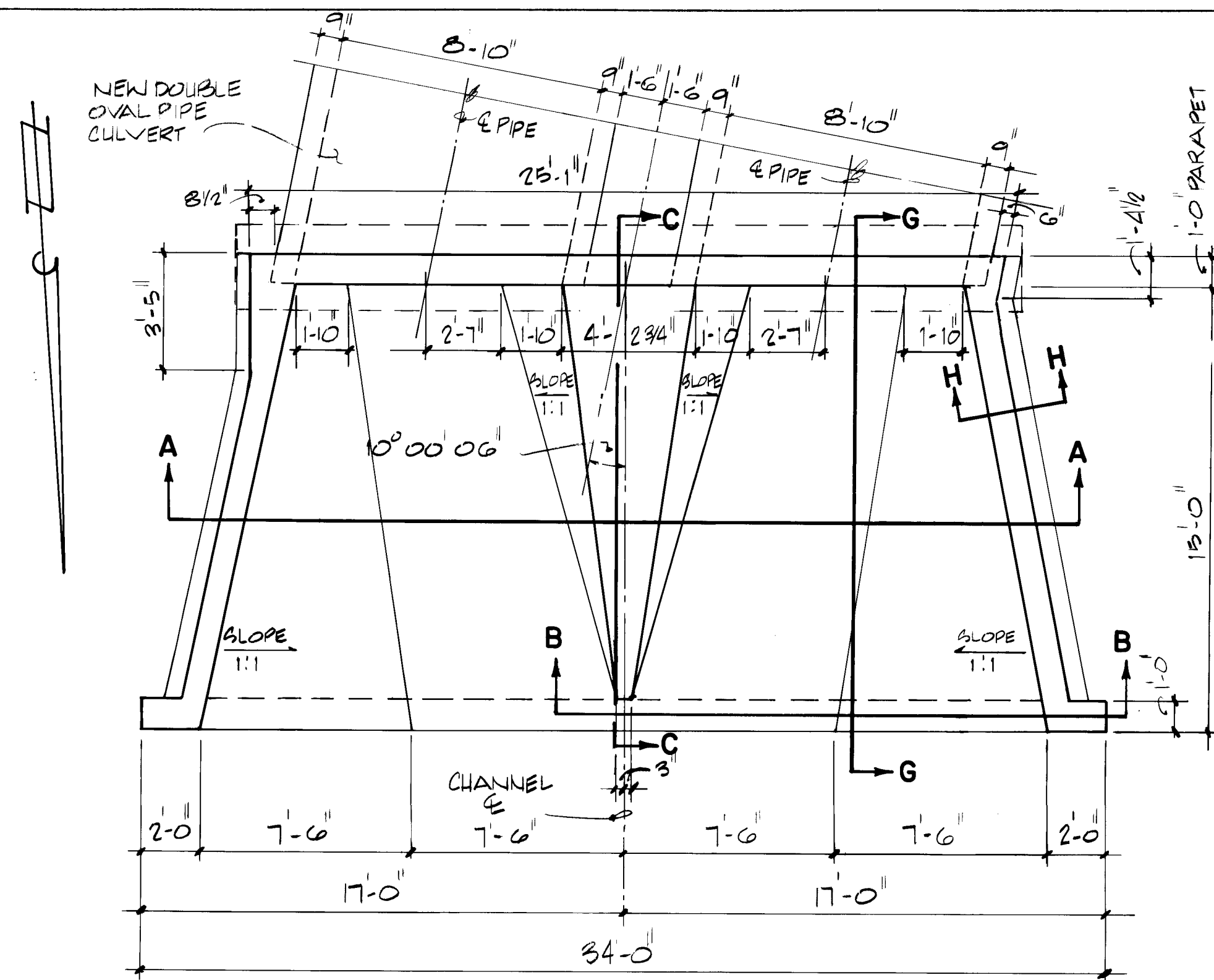
These record drawings apply only to those facilities constructed under the contract identified in the title block and have been prepared, in part, on the basis of information compiled and furnished by others. Boyle Engineering Corporation will not be responsible for any errors or omissions which have been incorporated into this drawing as a result of the work by others.

drawing as a result of the work by others.

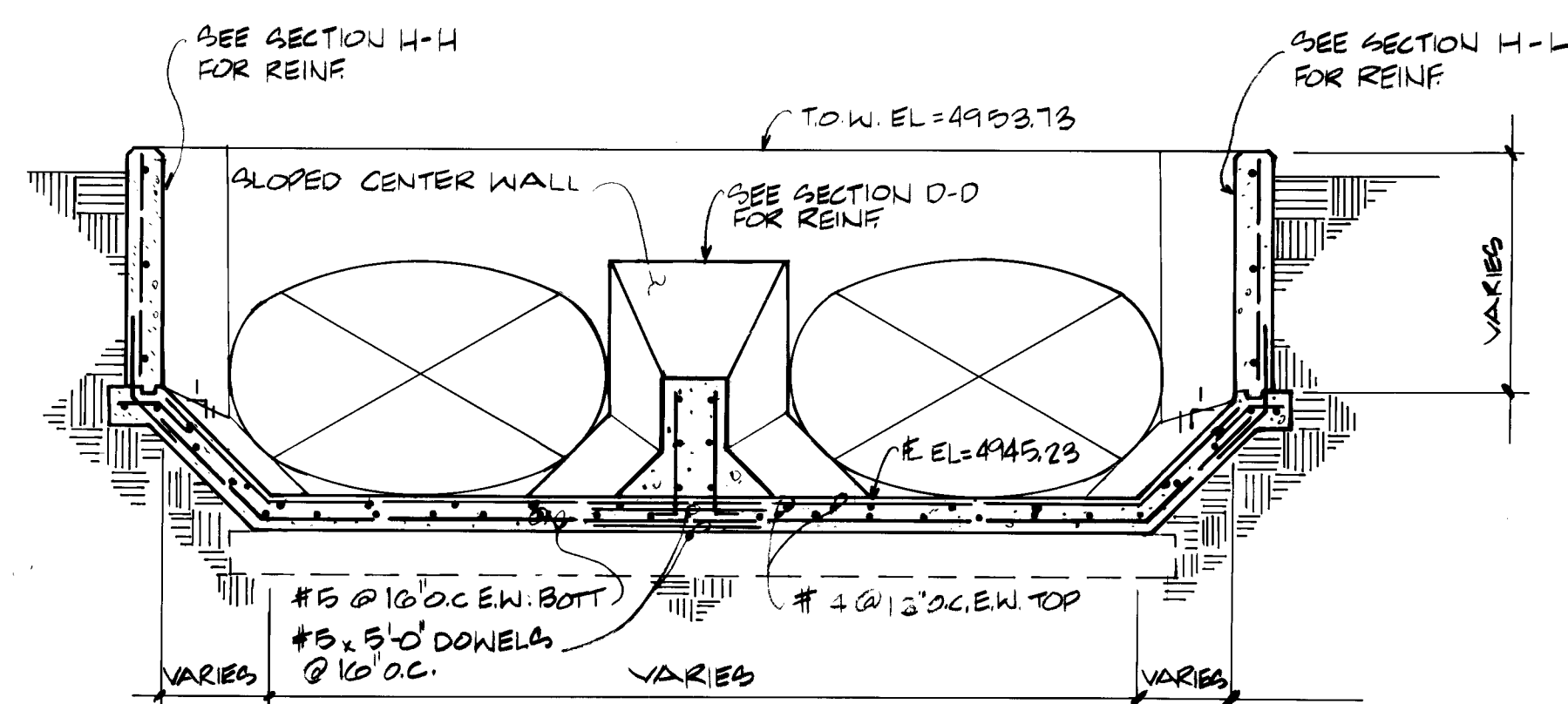
**APPROVED FOR
CONSTRUCTION**

TITLE: VALLEY DRAINAGE STRUCTURES
CENTRAL AVENUE
BOX CULVERT & MANHOLE DETAILS

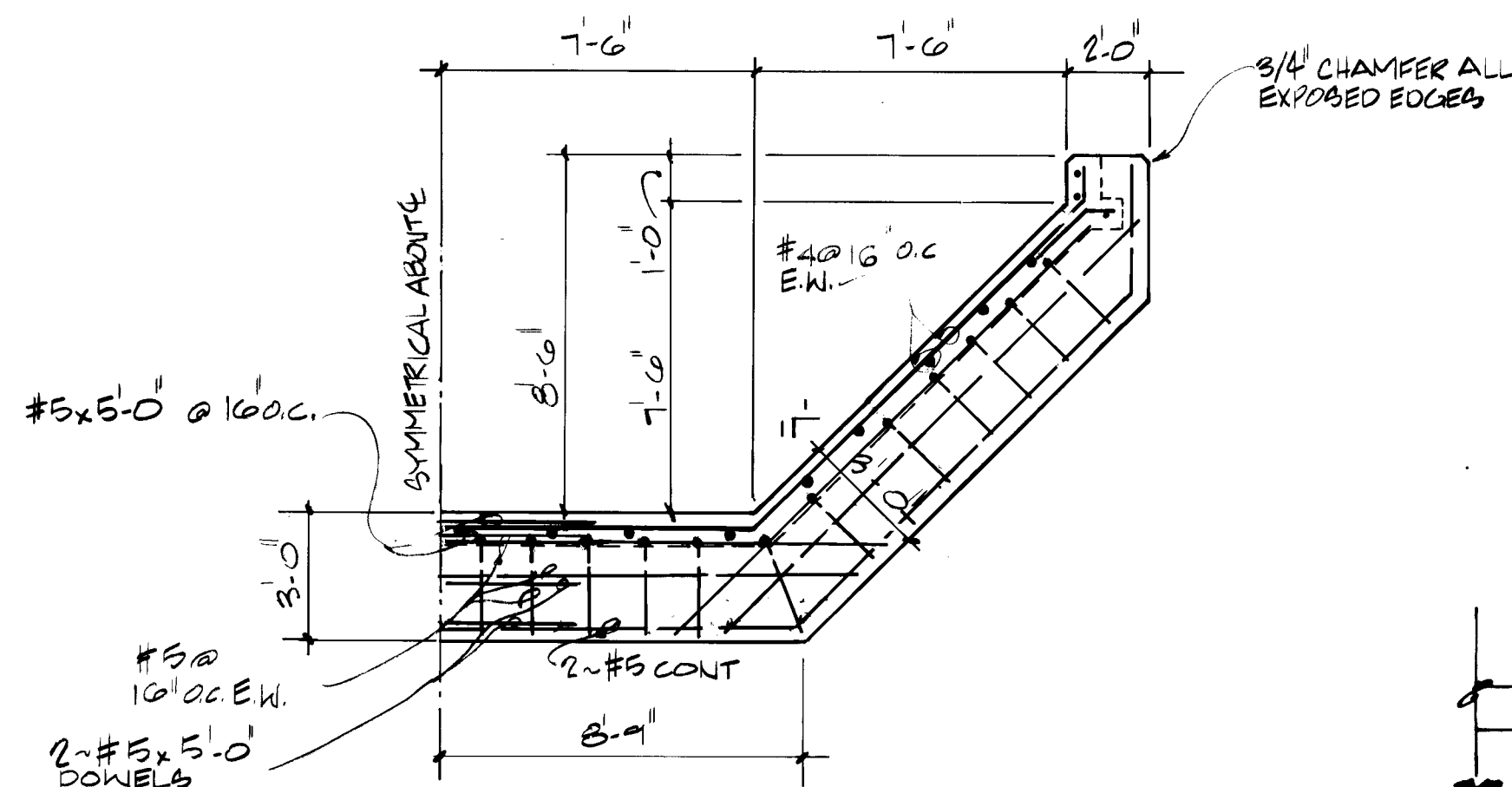
DRAWING NO.	1544	MAP NO.	SHEET 15 OF 22
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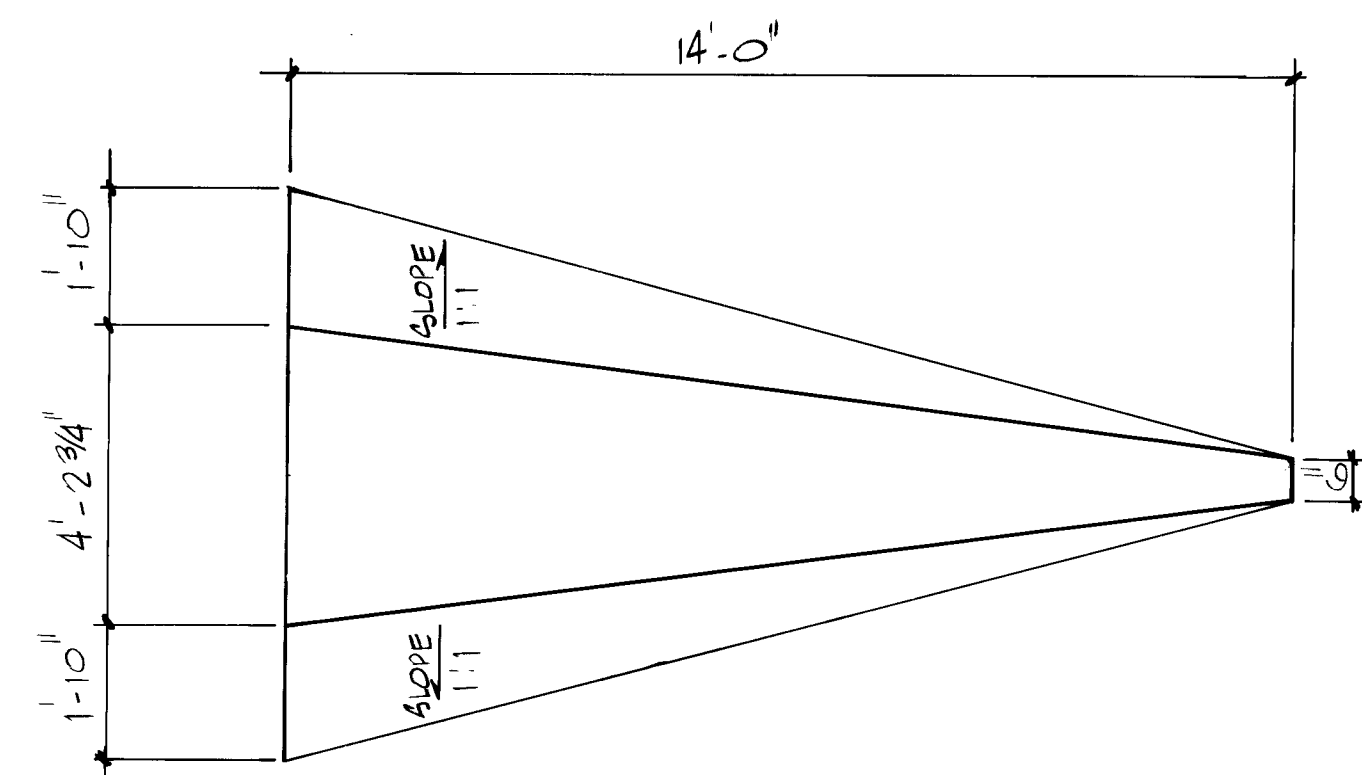
ENTRANCE STRUCTURE ~ PLAN
1/4" = 1'-0"



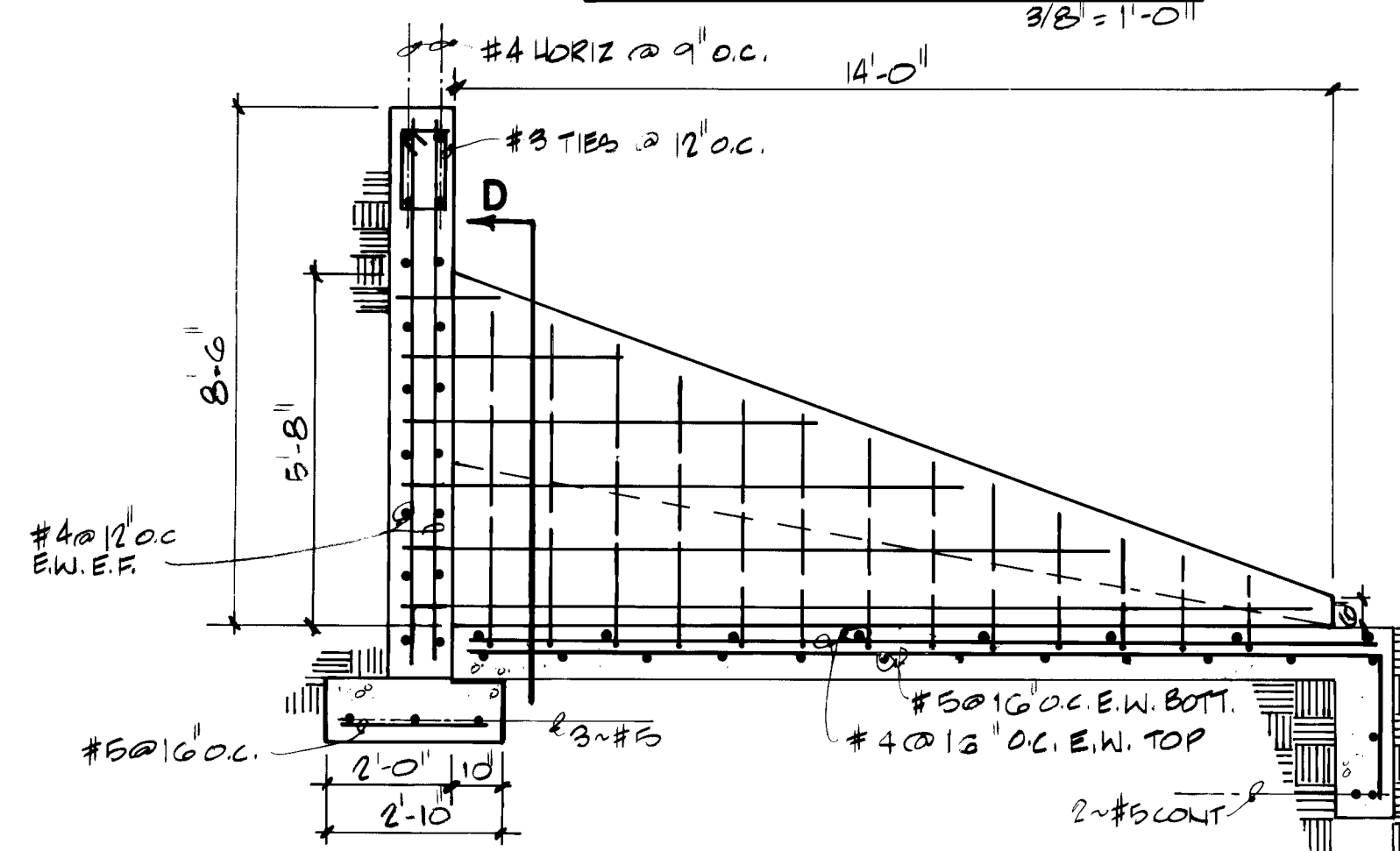
SECTION A-A & NORTH ELEVATION
1/4" = 1'-0"



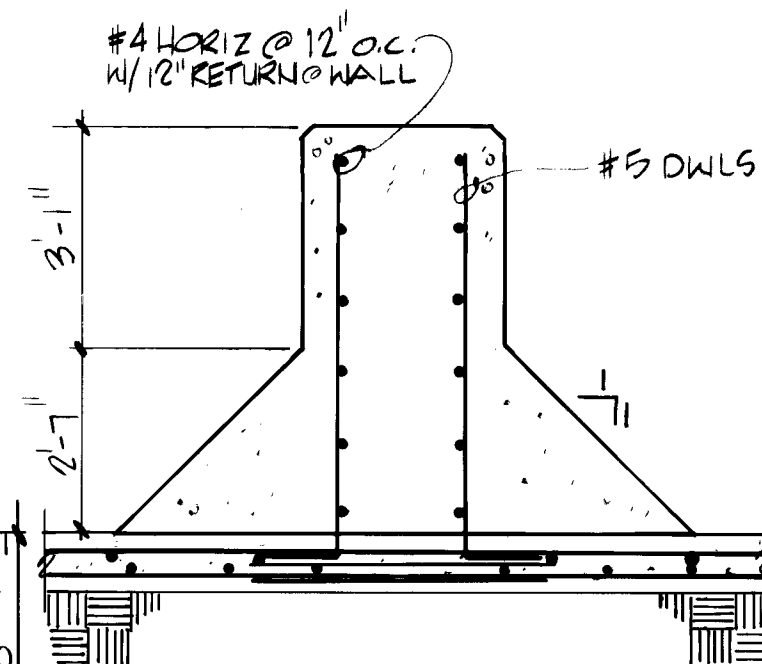
SECTION B-B ~ PARTIAL CUTOFF WALL
1/4" = 1'-0"



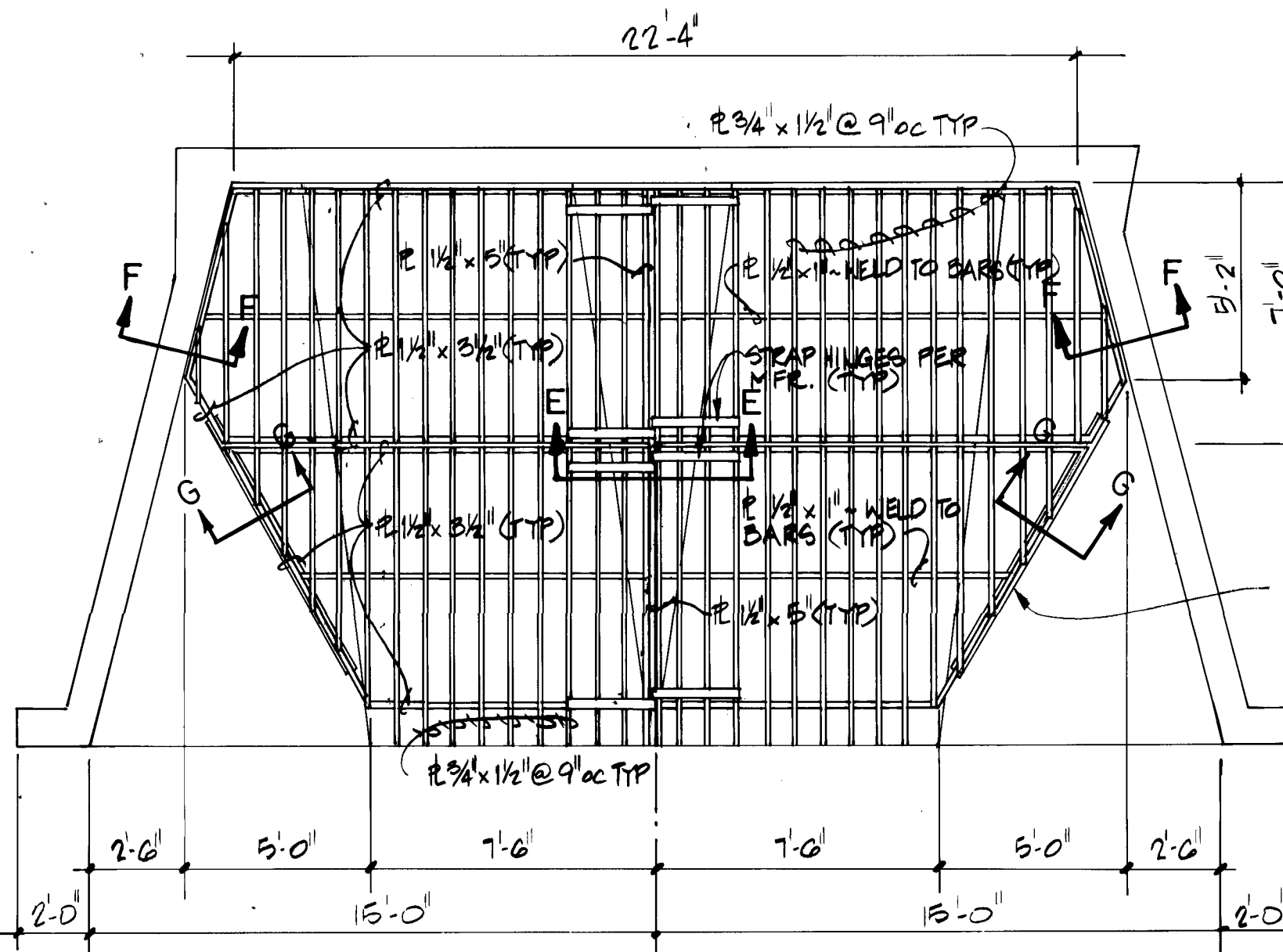
CENTER WALL ~ PLAN
3/8" = 1'-0"



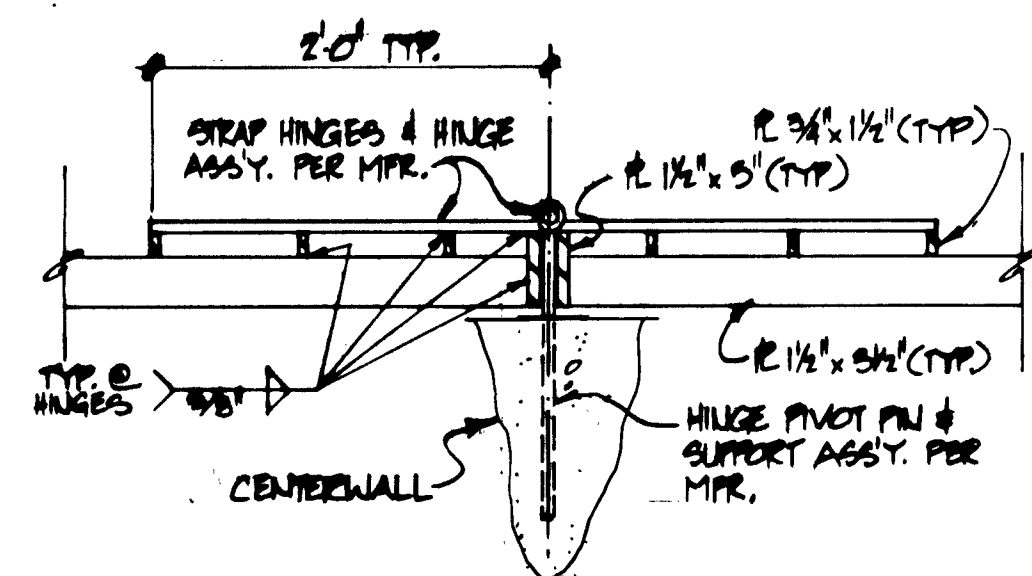
SECTION C-C
3/8" = 1'-0"



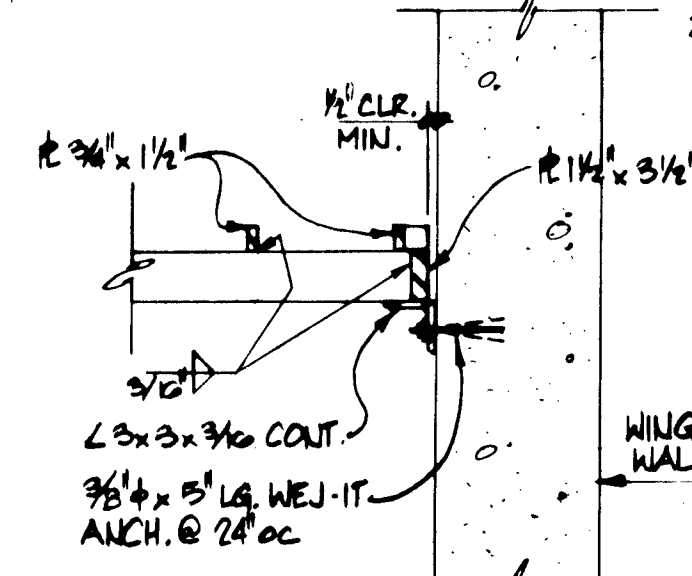
SECTION D-D
1/8" = 1'-0"



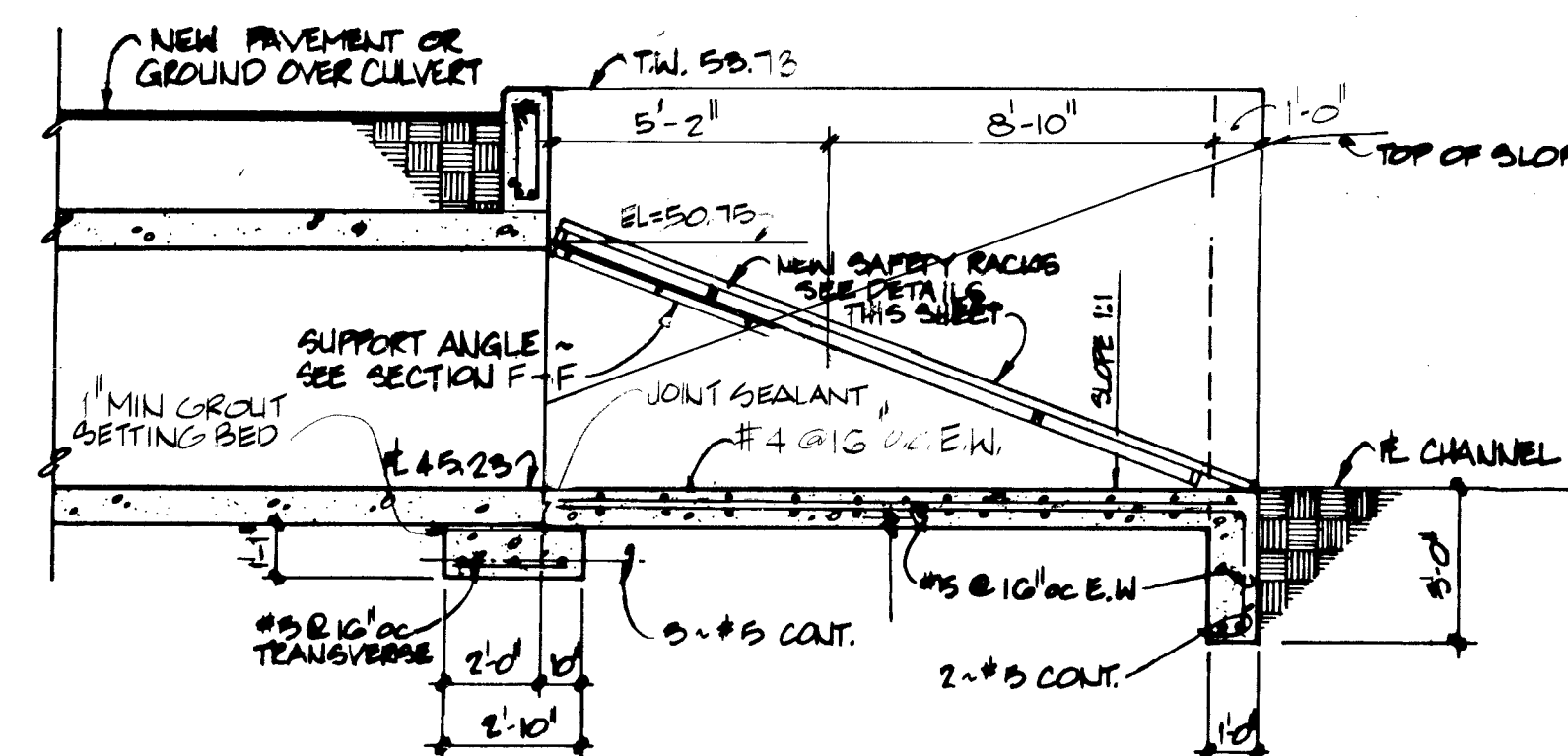
SAFETY RACK ~ PLAN
1/4" = 1'-0"



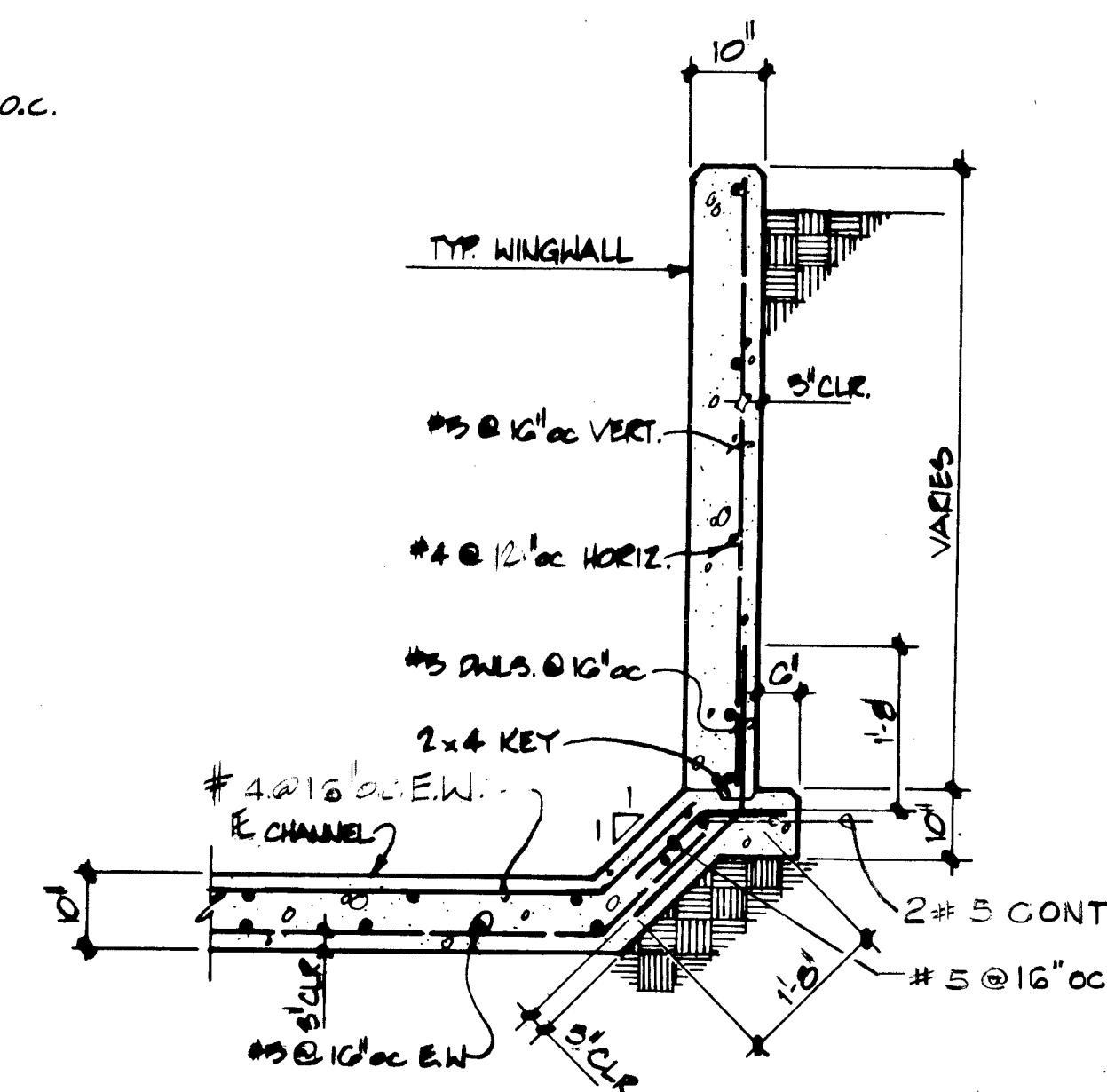
SECTION E-E
1" = 1'-0"



SECTION F-F
1" = 1'-0"



SECTION G-G
NTS



SECTION H-H
1/2" = 1'-0"

- NOTES:
- 1) ALL REINFORCING BARS SHALL BE GRADE 40.
 - 2) ALL STEEL IN SAFETY RACK SHALL BE A-36.
 - 3) 3/4" CHAMFER ALL EXPOSED EDGES, TYPICAL.
 - 4) ALL CONCRETE SHALL BE 3000 PSI MIN-28 DAY COMPRESSIVE STRENGTH.

RECORD DRAWING
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WINGWALL TIE IN DETAIL
NTS

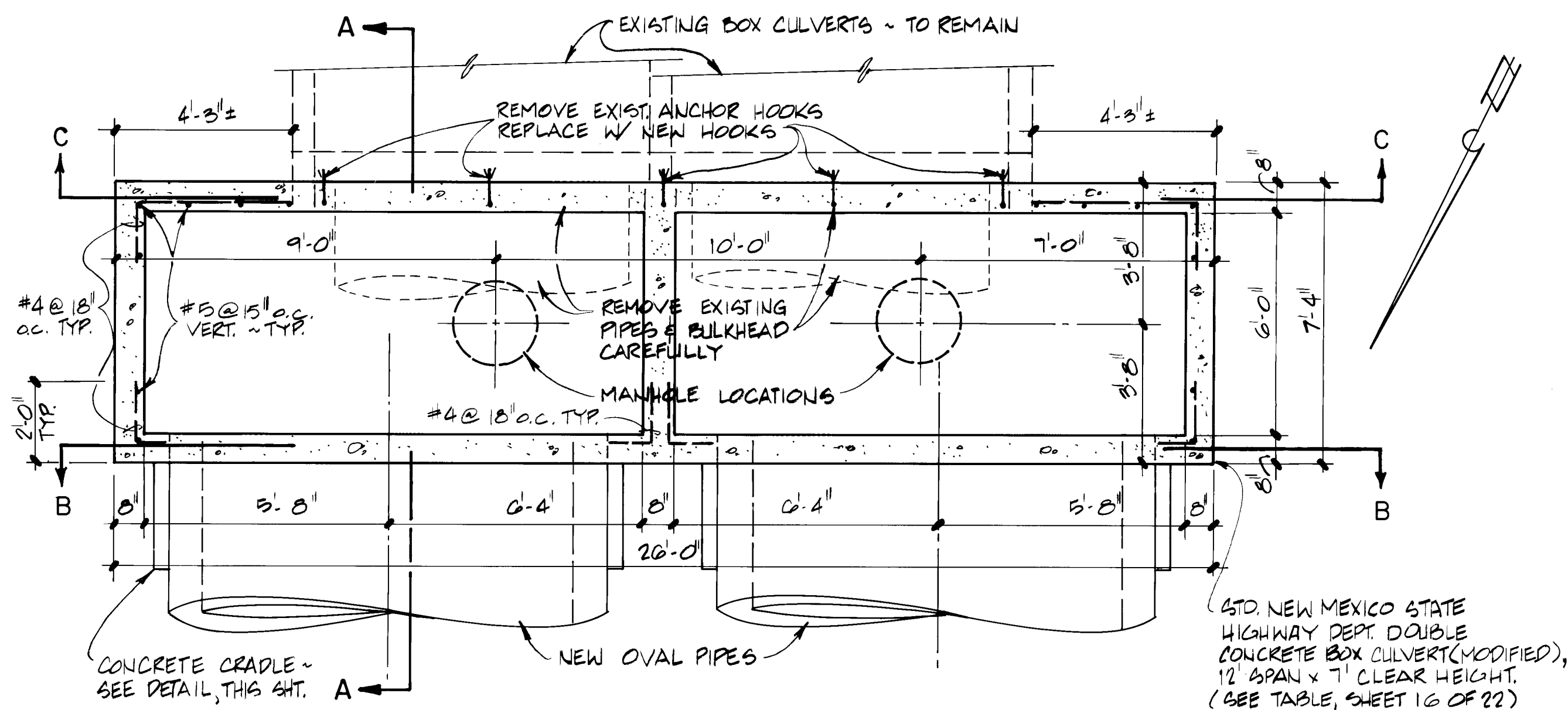
26 1544 1784



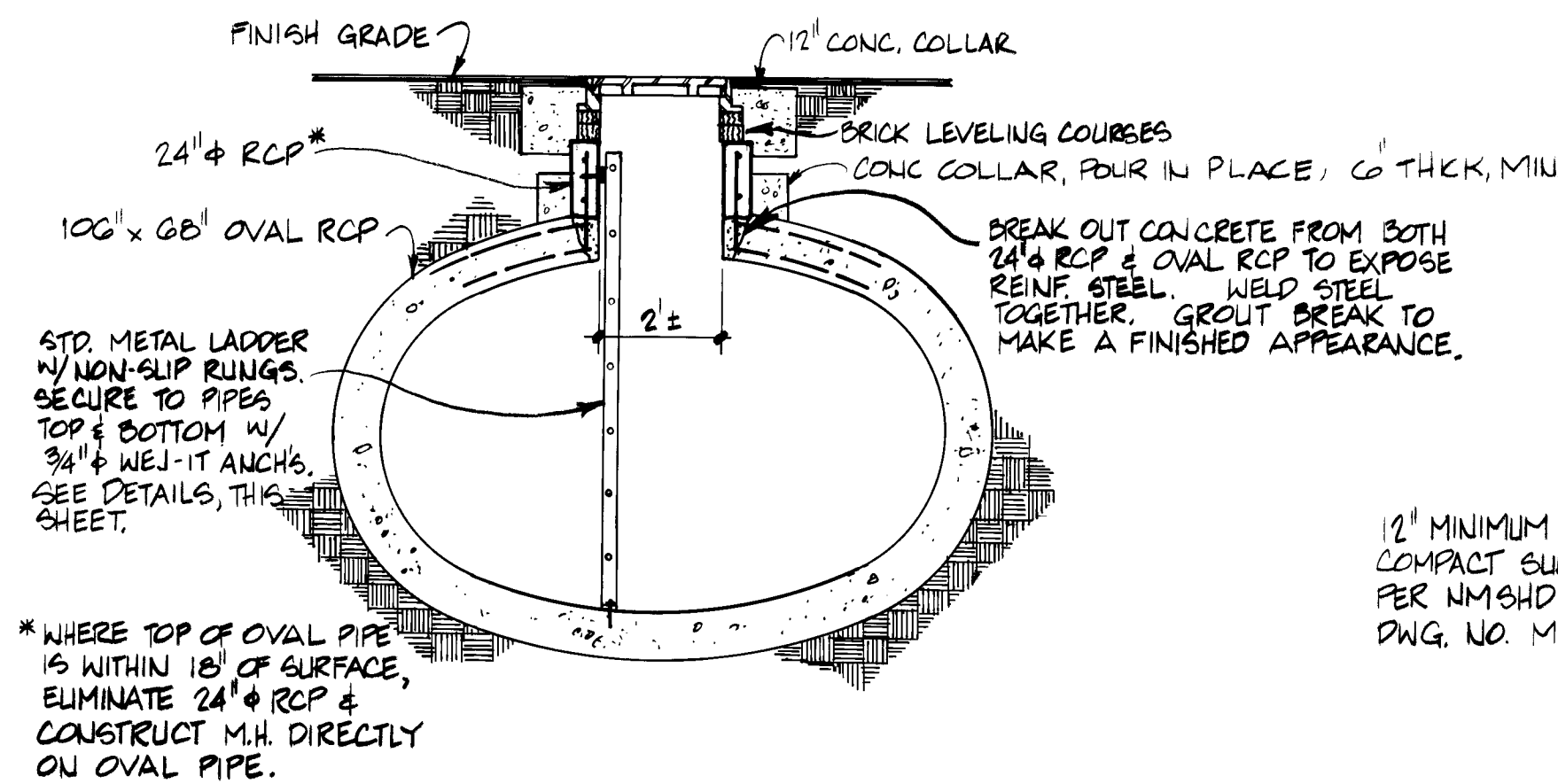
SECTION G-G
1" = 1'-0"

APPROVED FOR CONSTRUCTION
CITY ENGINEER DATE

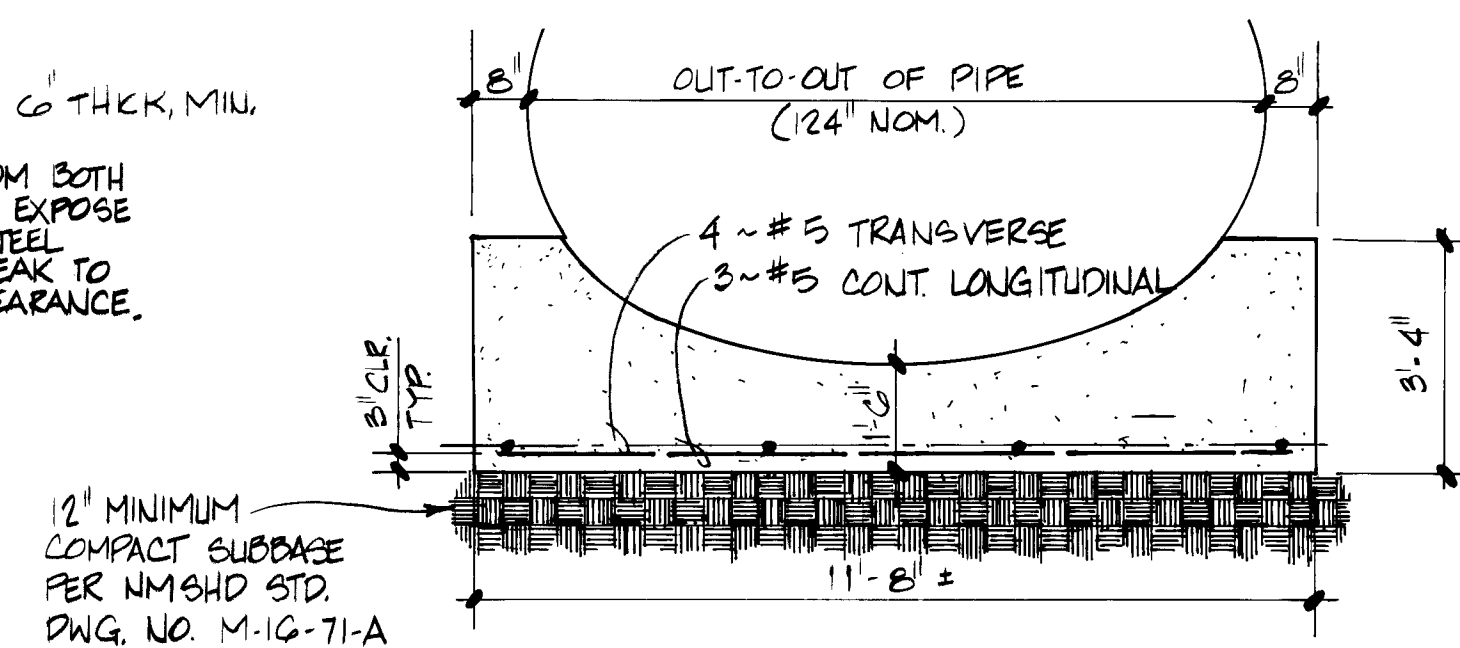
CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION					
TITLE: VALLEY DRAINAGE STRUCTURES CENTRAL AVENUE OVAL PIPE CULVERT DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. - Design			Traffic		
A.C.E. - Hydrology			Water		
DRAWING NO.	1544	MAP NO.	SHEET 17 OF 22		



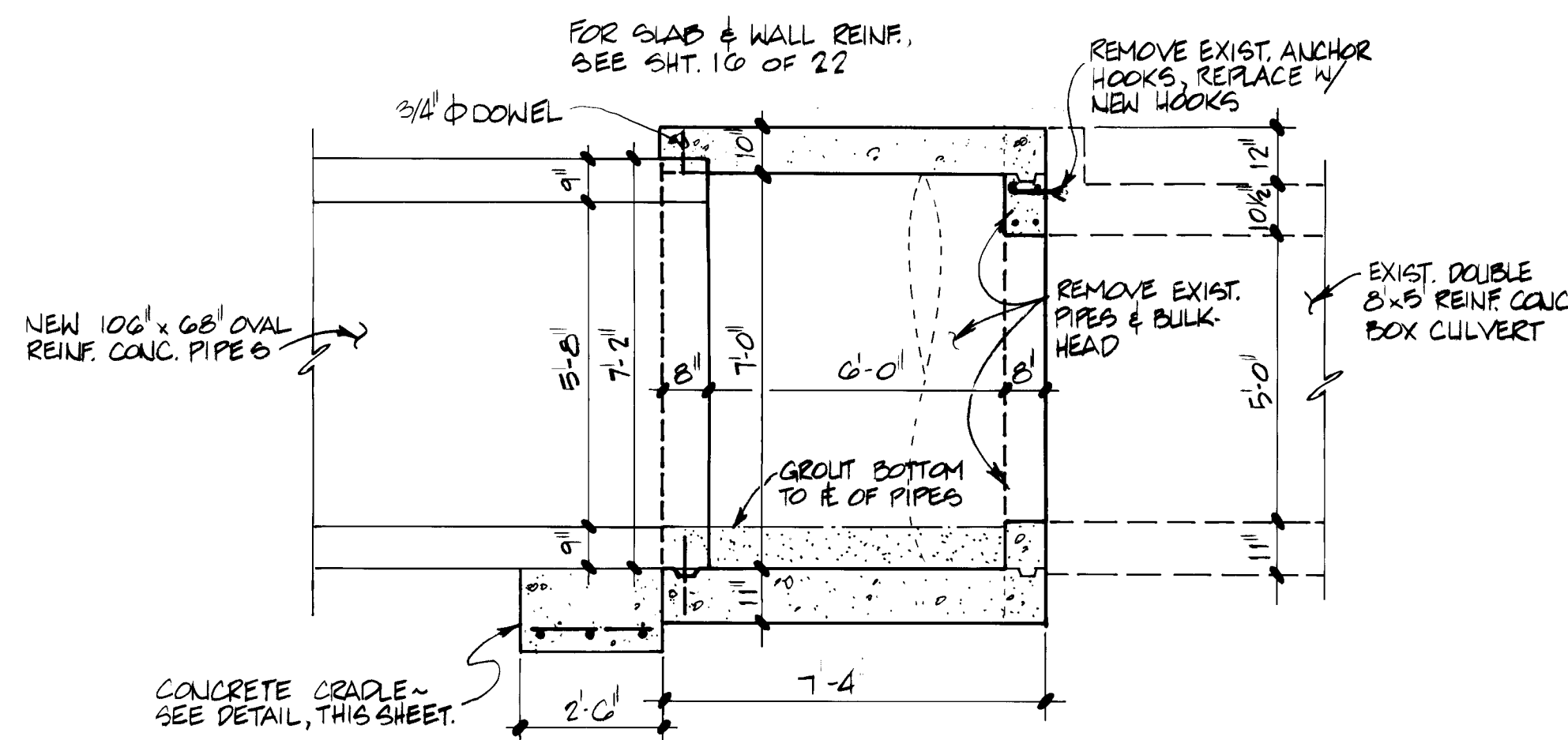
JUNCTION BOX ~ PLAN
CONNECTION DETAIL
3/8" = 1'-0"



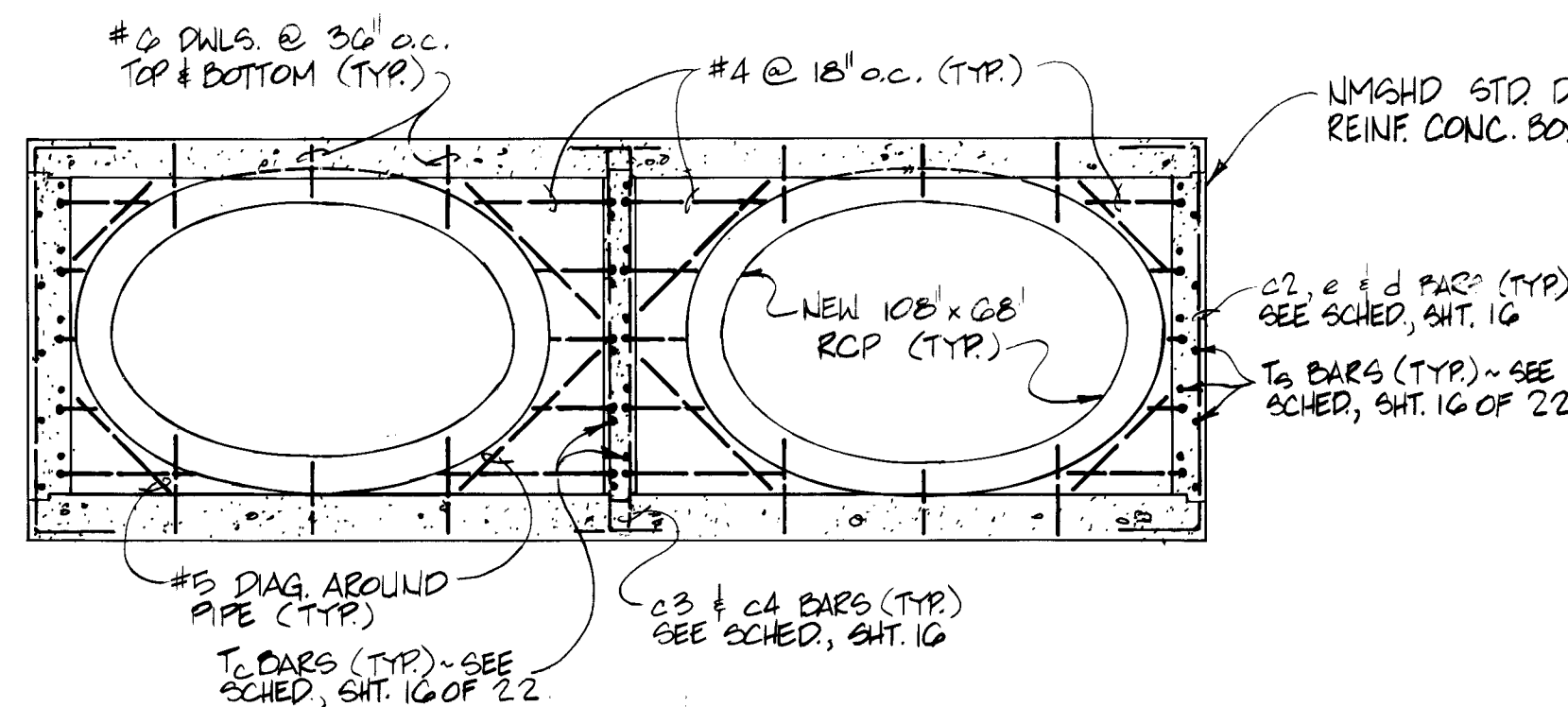
MANHOLE CONSTRUCTION DETAIL
3/8" = 1'-0"



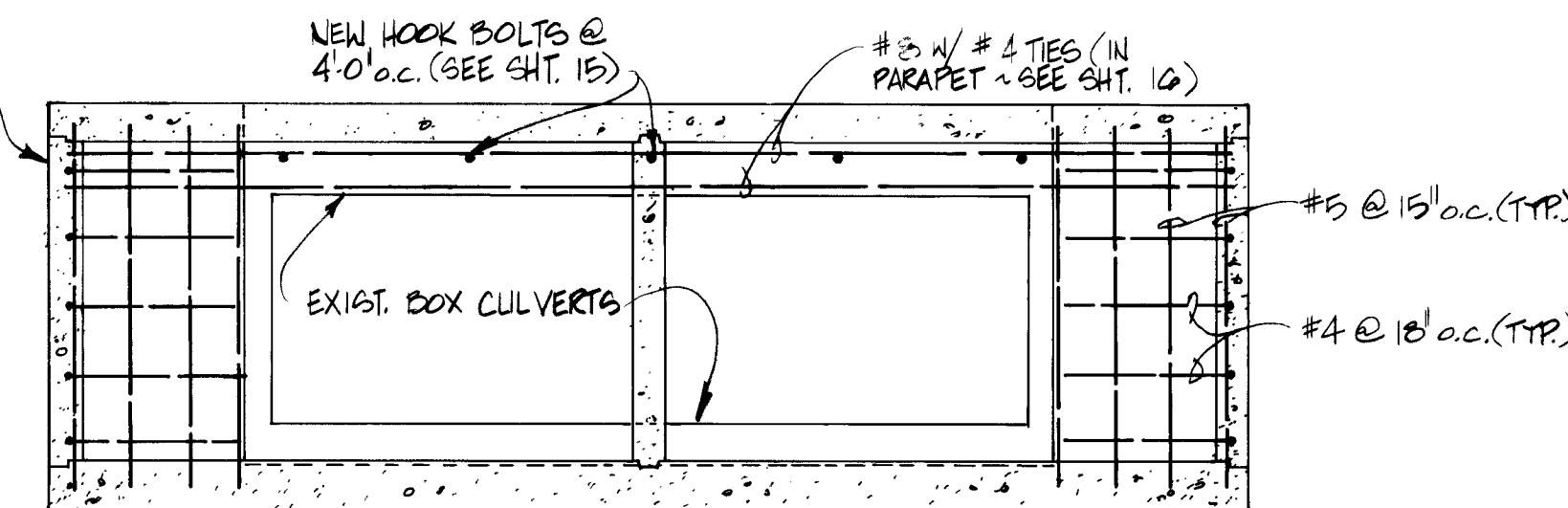
CONCRETE CRADLE DETAIL
3/8" = 1'-0"



SECTION A-A
3/8" = 1'-0"

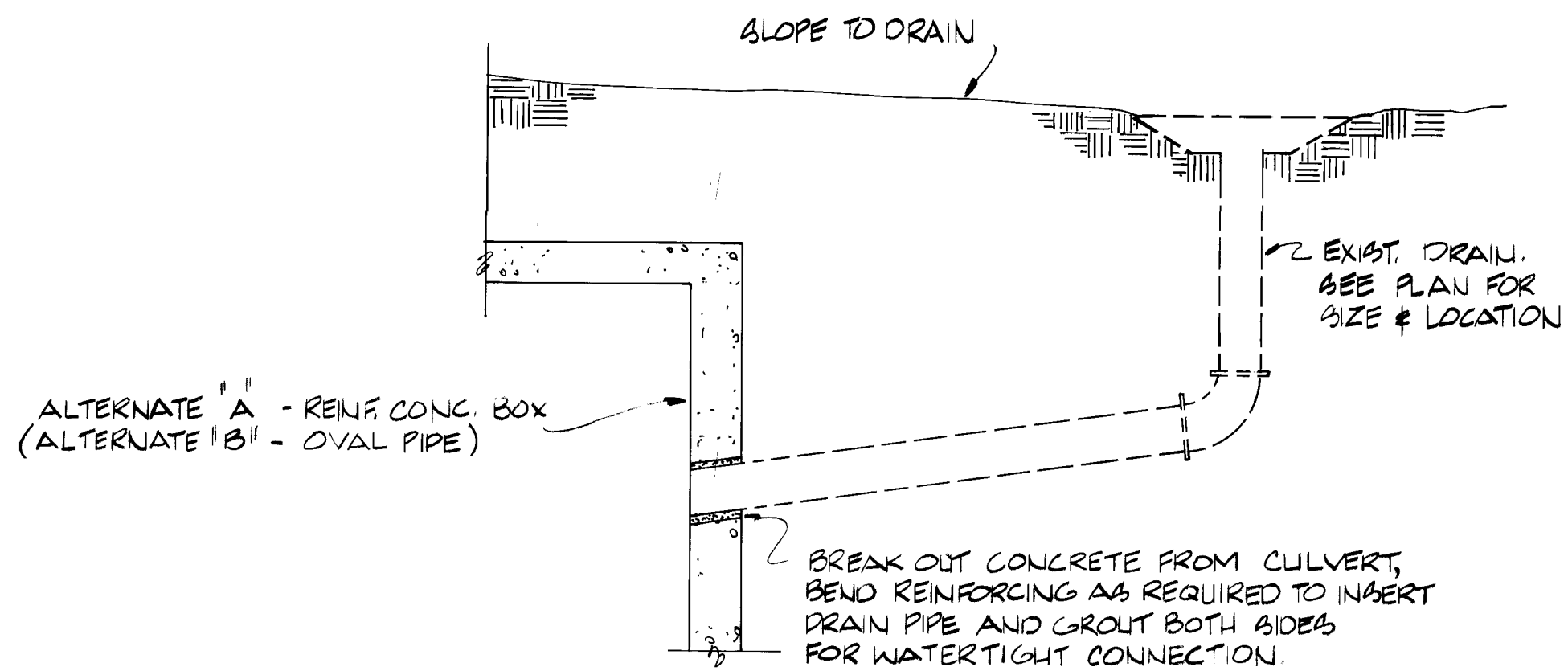


SECTION B-B
1/2" = 1'-0"

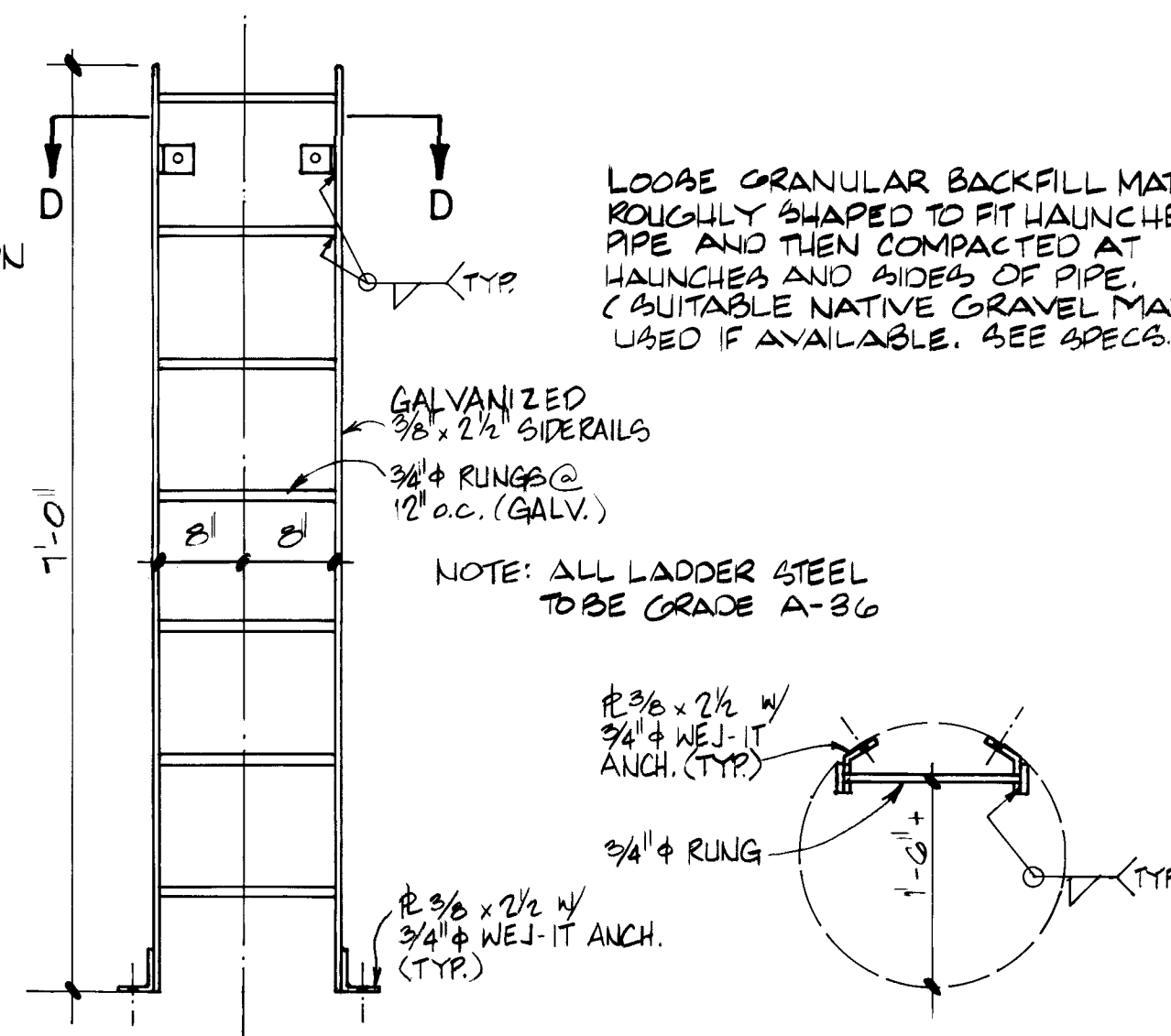


SECTION C-C
1/2" = 1'-0"

RECORD DRAWING
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Boyle Engineering Corporation

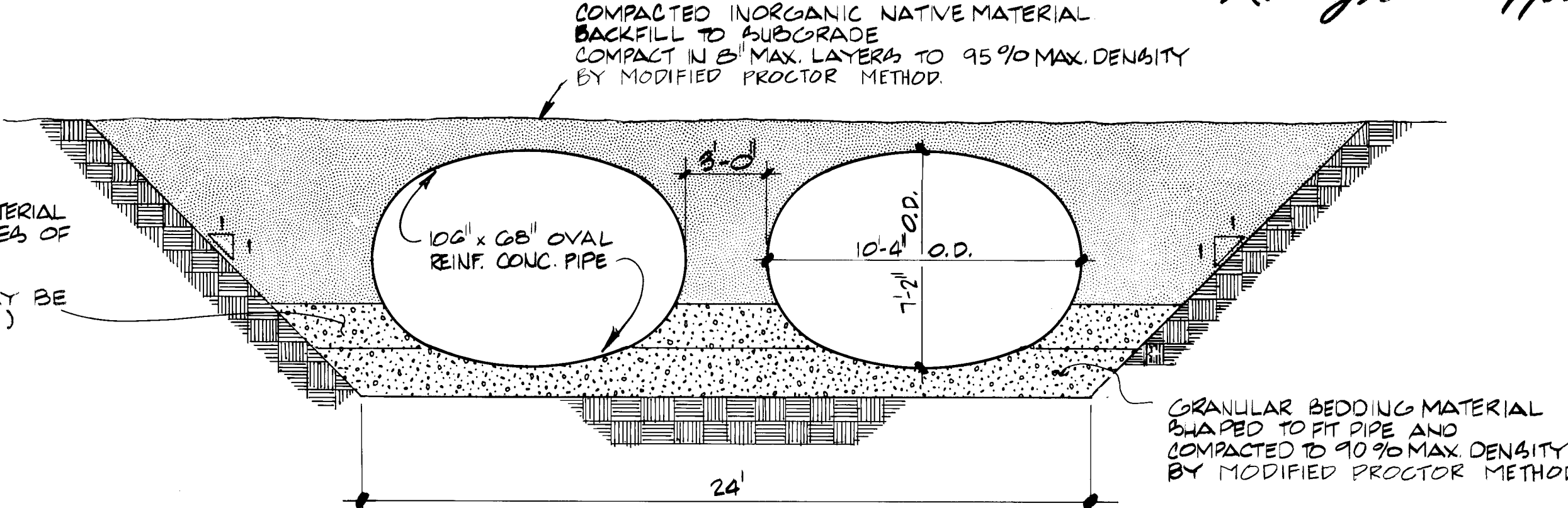


RE-CONNECTION OF EXISTING DRAINS
NO SCALE



METAL LADDER DETAIL
3/8" = 1'-0"

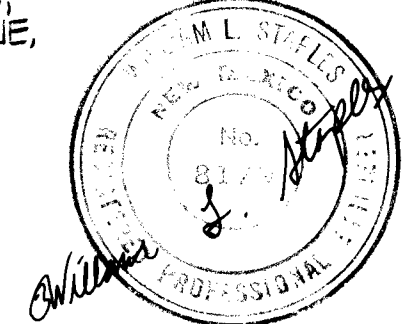
SECTION D-D
3/8" = 1'-0"



PIPE INSTALLATION DETAIL
1/4" = 1'-0"

GRANULAR BACKFILL SHALL CONSIST OF HARD DURABLE, AND TIGHT FRAGMENTS OF SCREENED OR BROKEN STONE, GRAVEL, OR SLAG CONFORMING TO THE FOLLOWING GRADATION

SIEVE SIZE	PERCENT PASSING
2 1/2"	100
1 1/2"	80-96
1 1/4"	58-74
NO. 4	36-52
NO. 40	9-17
NO. 200	0-3



APPROVED FOR CONSTRUCTION
CITY ENGINEER DATE

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION
VALLEY DRAINAGE STRUCTURES
CENTRAL AVENUE
OVAL PIPE DETAILS

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

DRAWING NO. 1544 MAP NO. SHEET 18 OF 22



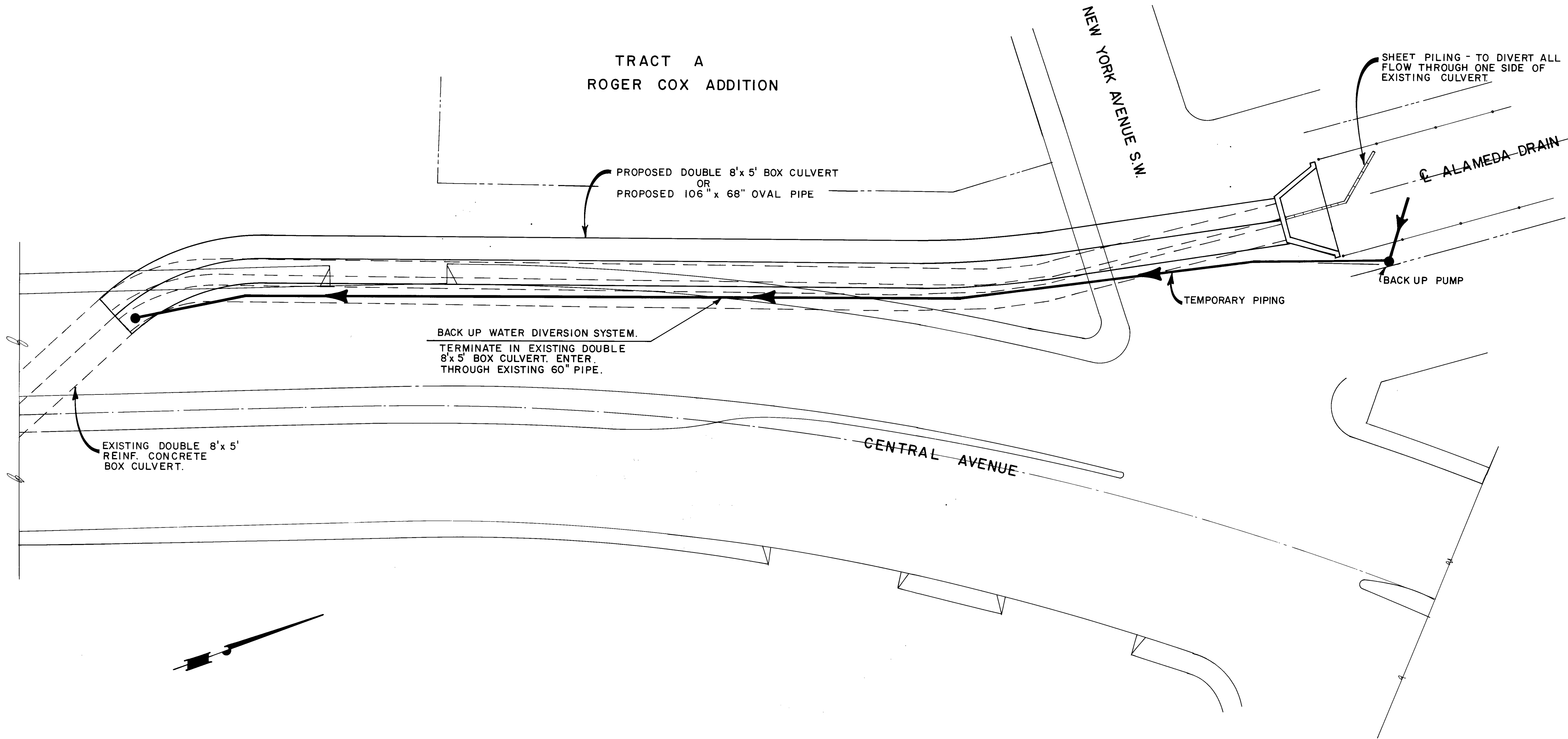
- TYPICAL BARRICADING & SIGNING FOR
CLOSURE OF NEW YORK AVE. N.W.
-
- NTS

**APPROVED FOR
CONSTRUCTION**

CITY ENGINEER

CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION			
TITLE: VALLEY DRAINAGE STRUCTURES CENTRAL AVENUE SIGNING & BARRICADING			
APPROVALS	ENGINEER	DATE	APPROVALS
City Engineer			Liquid Waste
A.C.E. - Design			Traffic
A.C.E. - Hydrology			Water
DRAWING NO. 1544		MAP NO.	SHEET 19 OF 22

TRACT A
ROGER COX ADDITION



TYPICAL SCHEMATIC FOR WATER HANDLING DURING CONSTRUCTION

SUGGESTED CONSTRUCTION PROCEDURES

1. BREAK UP EXISTING HEADWALL SUFFICIENTLY SO THAT SHEET PILING MAY BE PROPERLY INSTALLED.
2. INSTALL SHEET PILING AND BACK UP PUMPING SYSTEM DIVERTING ALL FLOW TO EAST SIDE OF CULVERT.
3. REMOVE EXISTING 60" ϕ PIPE, BULKHEAD, AND INLET STRUCTURE, ETC. ON WEST SIDE ONLY AND AT THE SAME TIME STABILIZING OPEN TRENCH AS REQUIRED AGAINST SLOUGHING.
4. DEWATER TRENCH, IF NECESSARY TO KEEP DRY TO ALLOW PROPER BEDDING AND BACKFILLING OF CULVERT.
5. INSTALL WEST SIDE OF BOX CULVERT OR WEST OVAL PIPE.
6. DIVERT WATER THROUGH NEW SIDE OF CULVERT. REPEAT ABOVE PROCEDURE.
7. CONTRACTOR SHALL SUBMIT TO CITY DEWATERING AND WATER DIVERSION PROCEDURES FOR APPROVAL PRIOR TO CONSTRUCTION.

26 1544 2084

RECORD DRAWING

These record drawings apply only to those facilities constructed under the contract identified in the title block and have been prepared, in part, on the basis of information compiled and furnished by others. Boyle Engineering Corporation will not be responsible for any errors or omissions which have been incorporated into this drawing as a result of the work by others.

Robert Stevens 4/4/83

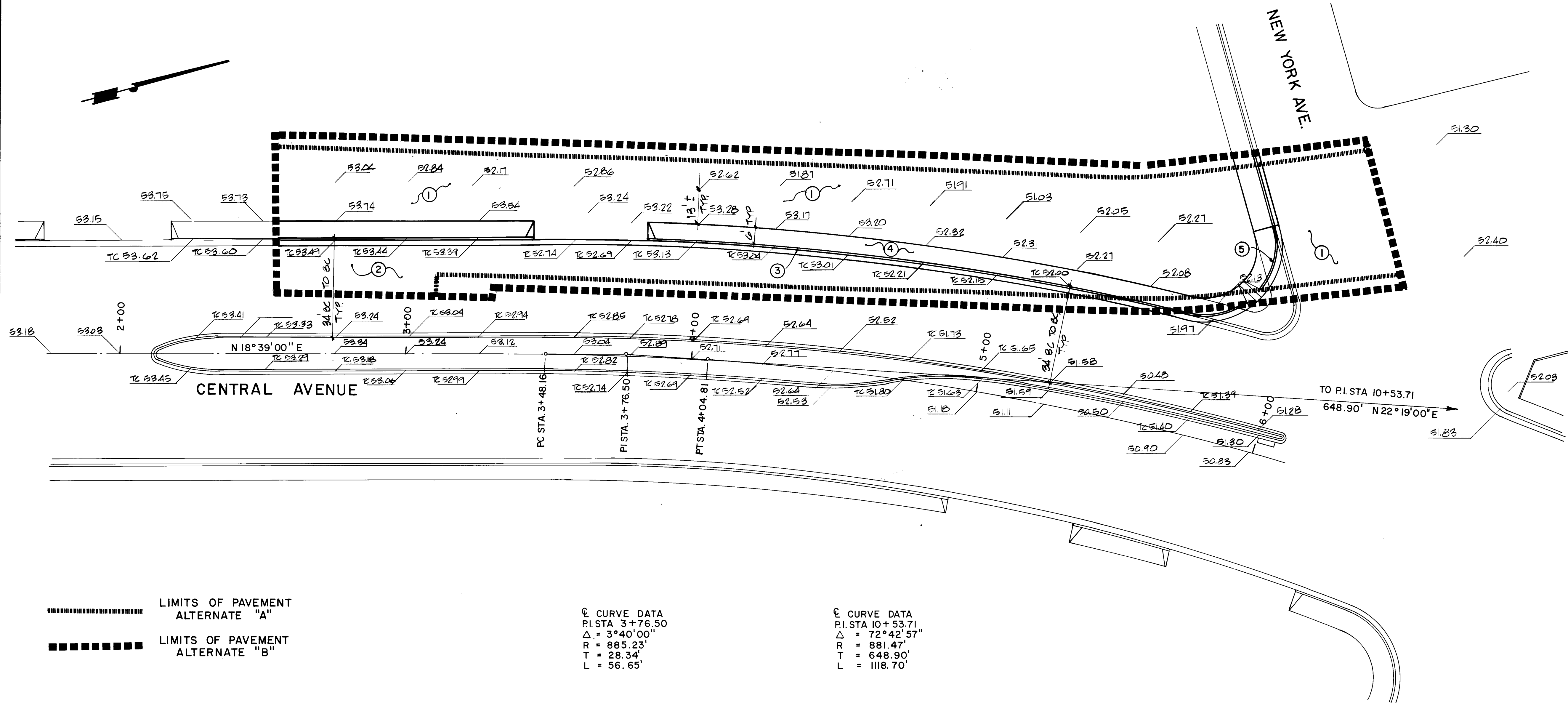
CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION					
TITLE: VALLEY DRAINAGE STRUCTURES DEWATERING PLAN					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E.-Design			Traffic		
A.C.E.-Hydrology			Water		
DRAWING NO. 1544		MAP NO.		SHEET 20 OF 22	

SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
NO.	BY	DATE	CONTRACTOR	WORK	DATE
			INSPECTED BY	INSPECTION	DATE
			ACCEPTANCE BY	ACCEPTANCE	DATE
			FIELD	FIELD	DATE
			DRAWINGS	DRAWINGS	DATE
			CHECKED BY	CHECKED BY	DATE
			RECORDED BY	RECORDED BY	DATE
			NO.	NO.	

ENGINEER'S SEAL

REVISIONS

DESIGNED BY	W.L. STAPLES	DATE	3/82
DRAWN BY	B.C. MORALES	DATE	3/82
CHECKED BY	J.A. VIGIL	DATE	3/82



LIMITS OF PAVEMENT
ALTERNATE "A"

LIMITS OF PAVEMENT
ALTERNATE "B"

Q CURVE DATA
PI STA 3+76.50
 $\Delta = 3^\circ 40' 00''$
R = 885.23'
T = 28.34'
L = 56.65'

Q CURVE DATA
PI STA 10+53.71
 $\Delta = 72^\circ 42' 57''$
R = 881.47'
T = 648.90'
L = 1118.70'

PAVING AND GRADING PLAN ALTERNATE "A" ALTERNATE "B"

- ① CONSTRUCT PAVEMENT PER CITY STD. DWG. P-7-1 FOR STD. RESIDENTIAL STREET SECTION.
- ② CONSTRUCT PAVEMENT PER CITY STD. DWG. P-7-1, FOR STD. ARTERIAL & COLLECTOR STREET SECTION
- ③ CONSTRUCT STD. CURB & GUTTER TYPE II PER CITY STD. DWG. P-8.
- ④ CONSTRUCT SIDEWALK PER CITY STD. DWG. P-13.
- ⑤ REMOVE EXISTING CURB RETURN. CONSTRUCT NEW 25'R RETURN W/ WHEELCHAIR RAMP PER CITY STD. DWG. P-17-1.

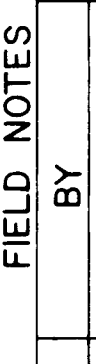
26 1544 2184

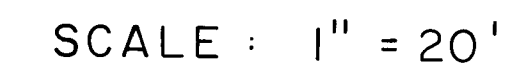
RECORD DRAWING

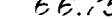
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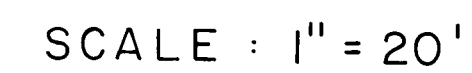
Allyson Brown 6/1/82

CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION					
TITLE: VALLEY DRAINAGE STRUCTURES PAVING & GRADING PLAN					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. - Design			Traffic		
A.C.E. - Hydrology			Water		
DRAWING NO. 1544		MAP NO.		SHEET 21 OF 22	

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION		
		FIELD NOTES						
		NO.	BY	DATE			CONTRACTOR	
							STAKED BY	
							CHECKED BY	
							DATE	



	EXISTING ELEVATION
	PROPOSED ELEVATION
TC =	TOP OF CURB ELEVATION
FL =	FLOWLINE ELEVATION



26 1544 2284

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

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

DRAWING NO.	1544	MAP NO.	SHEET	22	OF	22
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[illegible]