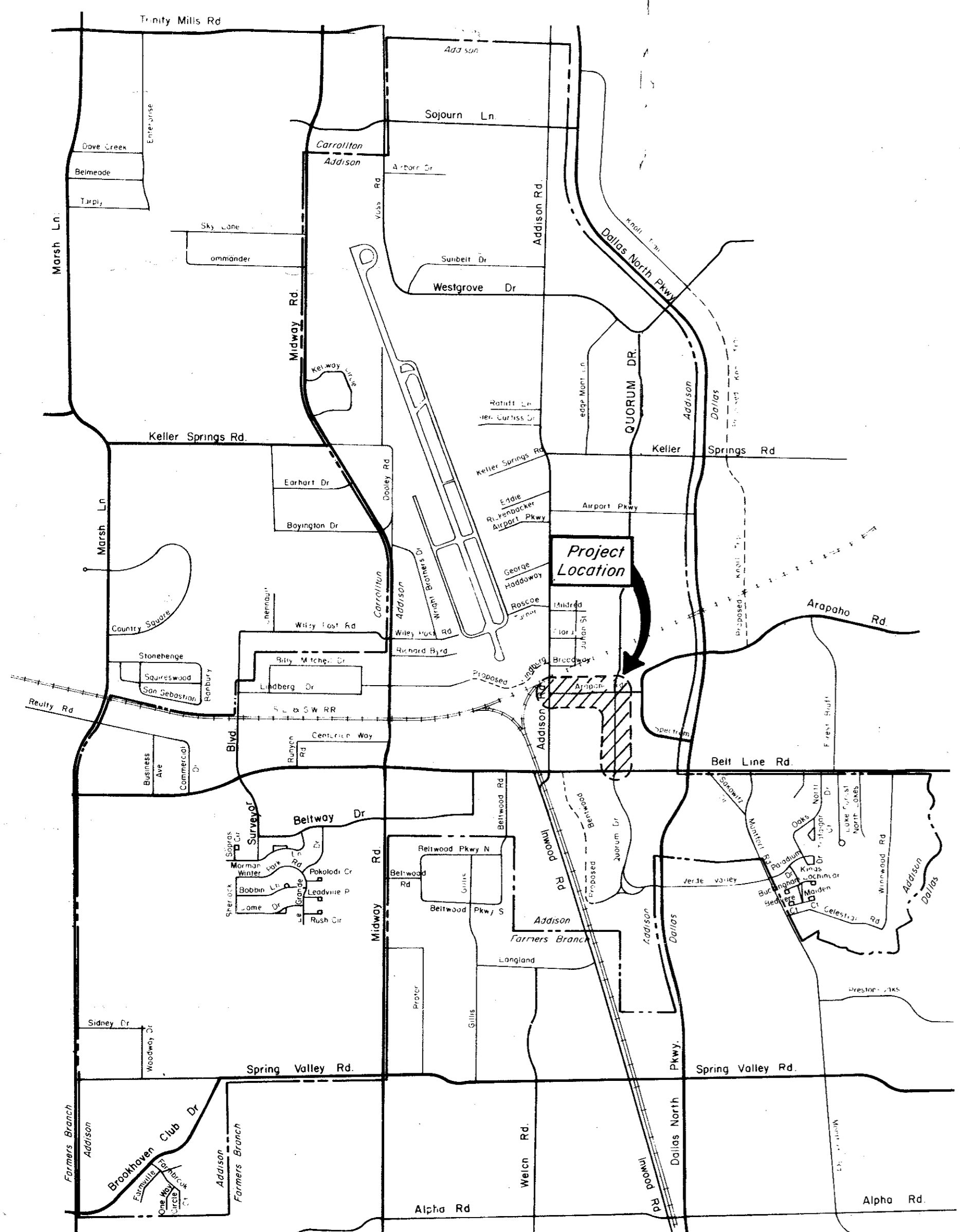


B2-2

# CITY OF ADDISON DALLAS COUNTY, TEXAS

## CONSTRUCTION PLANS FOR: ARAPAHO ROAD / QUORUM DRIVE IMPROVEMENTS

PROJECT LENGTH: ARAPAHO ROAD 1190'±  
QUORUM DRIVE 1301'±



CITY OF ADDISON

**Mayor:**  
*Jerry J. Redding*  
**Council Members:**  
*John B. Allen*  
*Richard Roder*  
*Barry Finkelstein*  
*Stewart Beatty*  
*Greg Cole*  
**City Manager:**  
*Ron Whitehead*



**GINN INC.**  
CONSULTING ENGINEERS  
DALLAS, TEXAS  
DECEMBER, 1983

CITY OF ADDISON

Approved By: \_\_\_\_\_  
Mayor  
Date \_\_\_\_\_

B2-2

ARAPAHO/QUORUM CONST. 12/83

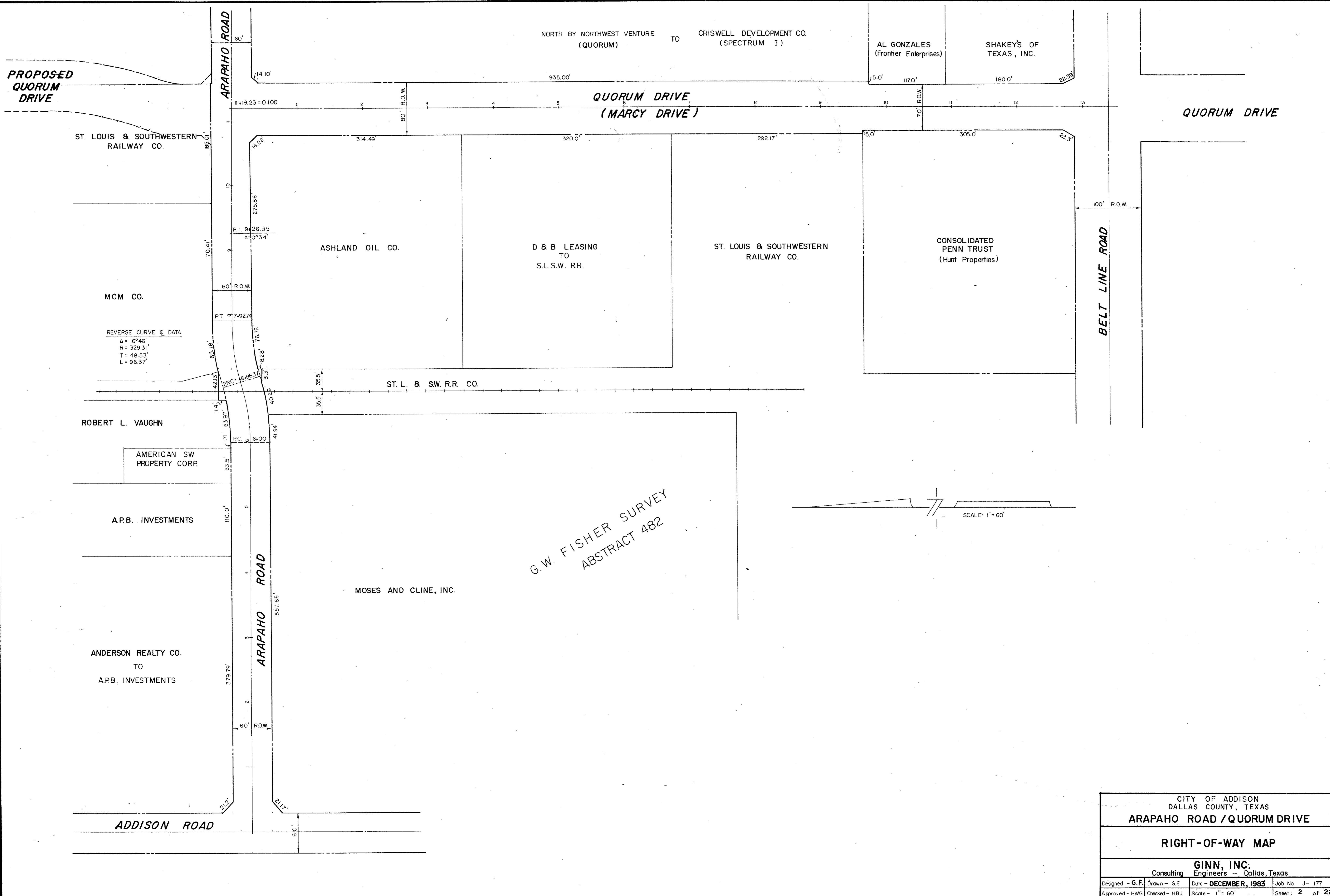
**SUMMARY OF ESTIMATED QUANTITIES**

ITEM NO.	DESCRIPTION	UNIT	PAVING SHEETS						DRAINAGE SHEETS						ITEM PRICE	UNIT PRICE	MISC.	TOTAL
			4	5	6	7	8	9	13	14	15	16	17	18				
100	Preparing of Right-of-Way	STA.	5	5	1.5	3.4	5	4										
104.1	Sawed Break-out Groove	LF	414	50	44		245	490									23.9	
104.2	Remove Conc. Paving (where indicated)	SY	56		194			185			105						1348.00	
104.3	Remove Old Conc. Curb & Gutter (where indicated)	LF	95					120			28						463.00	
110	Unclassified Road Excavation (DENSITY Cont.)	CY	1555	778	241	1042	1761	752									215.00	
120	Unclassified Channel Excavation (ordinary comp.)	LF															6129.00	
160	Placing Top Soil in Median 14 inches Sandy Loam	SY				418	517	283								1000.0	1000.00	
248	Flexible Base Ty A Gr2 Cl 3 (Density Cont.)	CY		77	10												1218.00	
260.1	Lime Slurry Ty A (6% max.) (27 lbs/sy)	TON	33.86	35.25	22.95	28.20	42.19	37.26								13	100.00	
260.2	Lime Treated Sub-grade 6" thk. (Density Cont.)	SY	2508	2611	1700	2089	3125	2760									200.00	
340.1	H.M.A.C.P. Ty. D Cl. A	TON	.21	130	7		7	13									14,793.00	
340.2	H.M.A.C.P. Ty. D Cl. A (Patching)	TON															178.00	
360.1	8" Concrete Pavement (3000 P.S.I.)	SY	2402.92	2325.0	1592.25	1937.5	2927.34	2620.81	32	3	6	3	8	19		9	80.00	
360.2	6" Monolithic Conc. Curb. (3000 P.S.I.)	LF	669.24	582	362.2	1188.66	813.87	1187.32									13,834.00	
360.3	Conc. Street Header	LF		92	46												4,804.00	
421.1	STA. 0+05+ Junction Box Cl. A Conc. w/reinf steel	LS							1								138.00	
421.2	STA. 6+50+ " " " " " "	LS								1							1.0	
421.3	STA. 11+34 " " " " " "	LS									1						1.0	
465.1	18" RCP Class III	LF							149	111		48	21	21			3500.00	
465.2	24" " " "	LF							290	191		56	56	56			649.00	
465.3	30" " " "	LF										61					61.00	
465.4	36" " " "	LF									237		350	40			627.00	
465.5	42" " " "	LF										190	150				340.00	
465.6	48" " " "	LF									88	134					387.00	
465.7	54" " " "	LF											56				56.00	
465.8	60" " " "	LF											50				50.00	
470.1	Y-Inlet (complete and in-place w/rip-rap)	EA.							2	2		2					50.00	
470.2	10'-Modified Recessed Inlet (Comp. in place)	EA.							4								6.00	
470.3	10'-Modified Double Recessed Inlet (Comp. in place)	EA.								1							4.00	
470.4	10'-Recessed Inlet	EA.								1							1.00	
470.5	4' Dia. Manhole (10'-12' deep) (complete and in place)	EA.										2	2	2			7.00	
471	Frame & Cover	EA.							1	2	1						5.00	
476	Boring 36" RCP Class IV	LF								65							4.00	
479.1	Adjust Water Valve	EA.							2	2	6	4		3			17.00	
479.2	Relocate Fire Hydrant	EA.							2	1	1	1					5.00	
479.3	Relocate Water Meter	EA.							1	1		3	2				7.00	
479.4	Relocate Clean-out San. Sew.	EA.								1							1.00	
479.5	Adjust Manhole	EA.									1						2.00	
479.6	Relocate/Lower 8" Water Main	LF							40	40		40	20	20			160.00	
479.7	Conc. Encasement 8" San. Sew.	LF										10	10				20.00	
479.8	Lower 2" Water Service	LF							45	45							90.00	
520.	6" Conc. Curb (Doweled in)	LF						25									25.00	
524.1	6" Conc. Sidewalk	SY						58									58.00	
524.2	5" Reinforced Conc. Driveway (3600 P.S.I.)	SY	143.26	188.1	43.65	87.3	160.2	184.91									808.00	
568	6' Chain Link Barrier Fence (Relocate)	LF				325	35										360.00	
580	Field Office Ty. A	LS															1.00	
640.1	2-2" PVC Conduit Sch. 40 (Elec.) complete & in-place	LF				355	500	375									1230.00	
640.2	2-3" " " " " " " " " " " " "	LF				250		90									340.00	
640.3	Pull Box	EA				6	2	3									11.00	
640.4	3" PVC Conduit Sch. 40 (Water) complete & in-place	LF				35	120	80									235.00	
640.5	8" PVC SDR 35 San. Sew. (7'-10' cut)	LF															54.00	
640.6	10" PVC SDR 35 San. Sew. (7'-10' cut)	LF														54	54.00	
640.7	16" PVC SDR 17 Water Line (5'-6' cut)	LF										435	500	400		488	488.00	
640.8	8" PVC SDR 17 Water Lateral (5'-6' cut)	LF										120	160	80			1,335.00	
640.9	16" Water Valve	EA										2	1	1			360.00	
640.10	12" Water Valve	EA										1					4.00	
640.11	8" Water Valve	EA										1					1.00	
640.12	2" Water Valve w/tap	EA										2	2	1			5.00	
640.13	Fire Hydrant	EA										1		1			1.00	
752.1	4" Traffic Button Single Reflective P15 W	EA	24	24	24	18	24	20									134.00	
752.2	4" Traffic Button Double " P17 Y	EA	182	188	182												552.00	
752.3	8" Traffic Button Single " P18-I-W	EA				14	5	19									38.00	
754.1	4" Traffic Button Non-reflective P 7 W	EA	120	120	120	90	120	100									670.00	
760.1	18" White STOP Bar Thermo-plastic	LF	25		25			35									85.00	
760.2	8' Left Turn Arrows	EA	1		1												2.00	
760.3	8' Right Turn Arrows	EA	1		1			1									4.00	

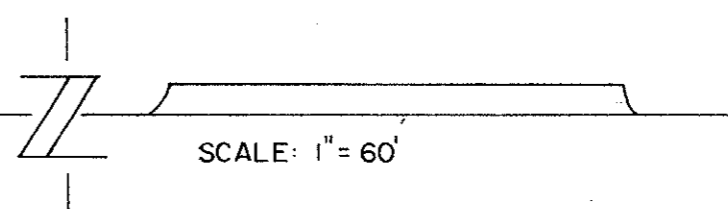
**INDEX TO DRAWINGS**

SHEET	DESCRIPTION
1	SUMMARY OF QUANTITIES & INDEX
2	RIGHT-OF-WAY MAP
3	CONSTRUCTION SEQUENCE
4	ARAPAHO-PAVING 0+00 to 5+00
5	ARAPAHO-PAVING 5+00 to 10+00
6	ARAPAHO-PAVING 10+00 to 11+90.24
7	QUORUM DRIVE-PAVING 0+00 to 4+00
8	QUORUM DRIVE-PAVING 4+00 to 9+00
9	QUORUM DRIVE-PAVING 9+00 to 13+01.50
10	PAVING DETAILS - A
11	PAVING DETAILS - B
12	DRAINAGE AREA MAP
13	ARAPAHO-DRAINAGE 0+00 to 5+00
14	ARAPAHO-DRAINAGE 5+00 to 10+00
15	ARAPAHO-DRAINAGE 10+00 to 11+90.24
16	QUORUM DR.-DRAINAGE 0+00 to 4+00
17	QUORUM DR.-DRAINAGE 4+00 to 9+00
18	QUORUM DR.-DRAINAGE 9+00 to 13+01.50
19	DRAINAGE DETAILS - A
20	DRAINAGE DETAILS - B
21	MISCELLANEOUS DETAILS
22	MISCELLANEOUS DETAILS

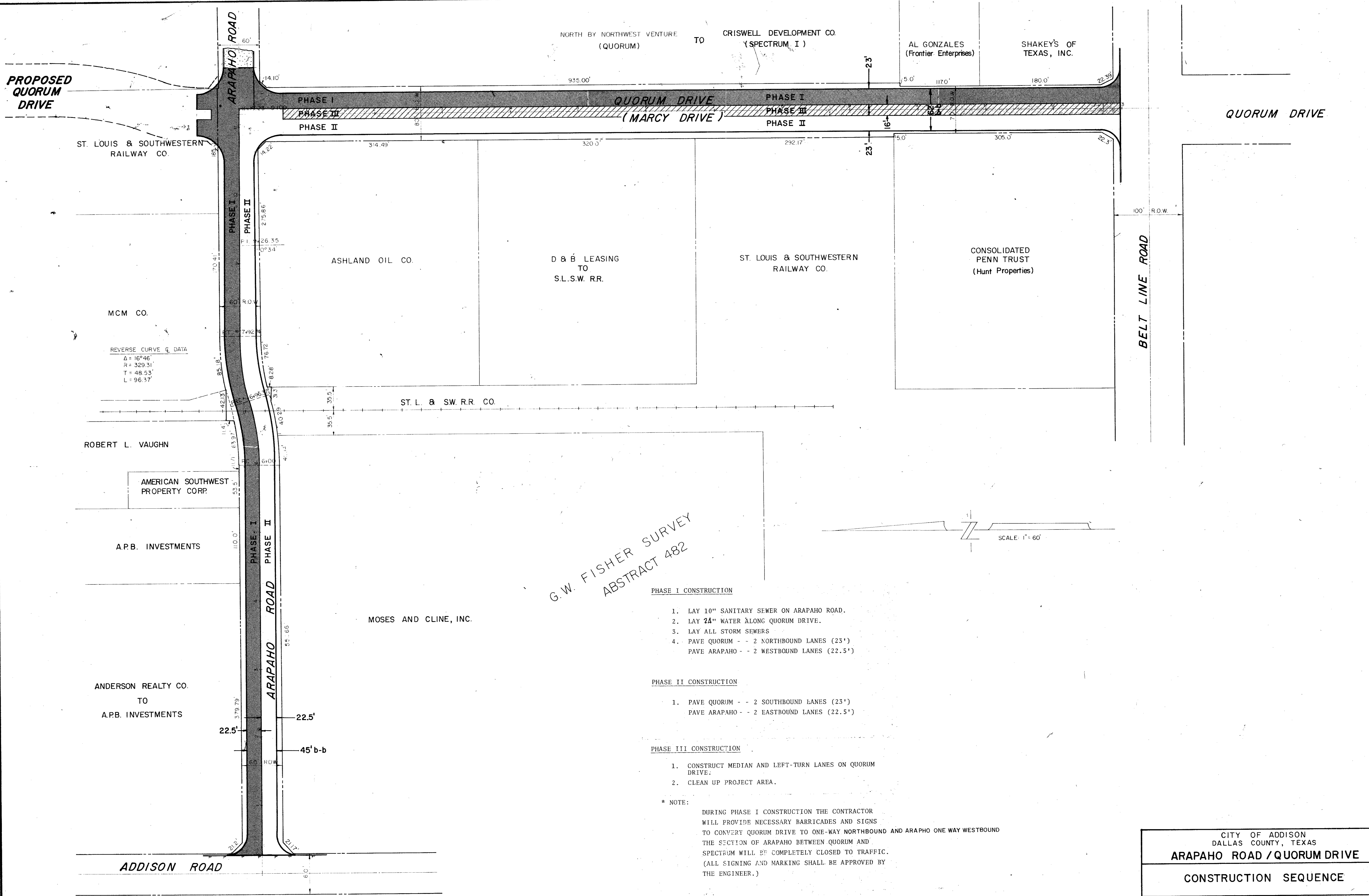
NO. \_\_\_\_\_ REVISION \_\_\_\_\_ BY \_\_\_\_\_ DATE \_\_\_\_\_  
 CITY OF ADDISON  
 DALLAS COUNTY, TEXAS  
**ARAPAHO & QUORUM Dr. IMPROVEMENTS**  
**SHEET INDEX & SUMMARY OF QUANTITIES**  
 GINN, INC.  
 Consulting Engineers - Dallas, Texas  
 DESIGNED: \_\_\_\_\_ TABULATED: \_\_\_\_\_ DATE: \_\_\_\_\_  
 APPROVED: \_\_\_\_\_ CHECKED: \_\_\_\_\_ SHEET / OF 22



G.W. FISHER SURVEY  
ABSTRACT 482



CITY OF ADDISON DALLAS COUNTY, TEXAS			
ARAPAHO ROAD / QUORUM DRIVE			
RIGHT-OF-WAY MAP			
GINN, INC. Consulting Engineers - Dallas, Texas			
Designed - G.F.	Drawn - G.F.	Date - DECEMBER, 1983	Job No. J-177
Approved - HWG	Checked - HBJ	Scale - 1" = 60'	Sheet 2 of 22

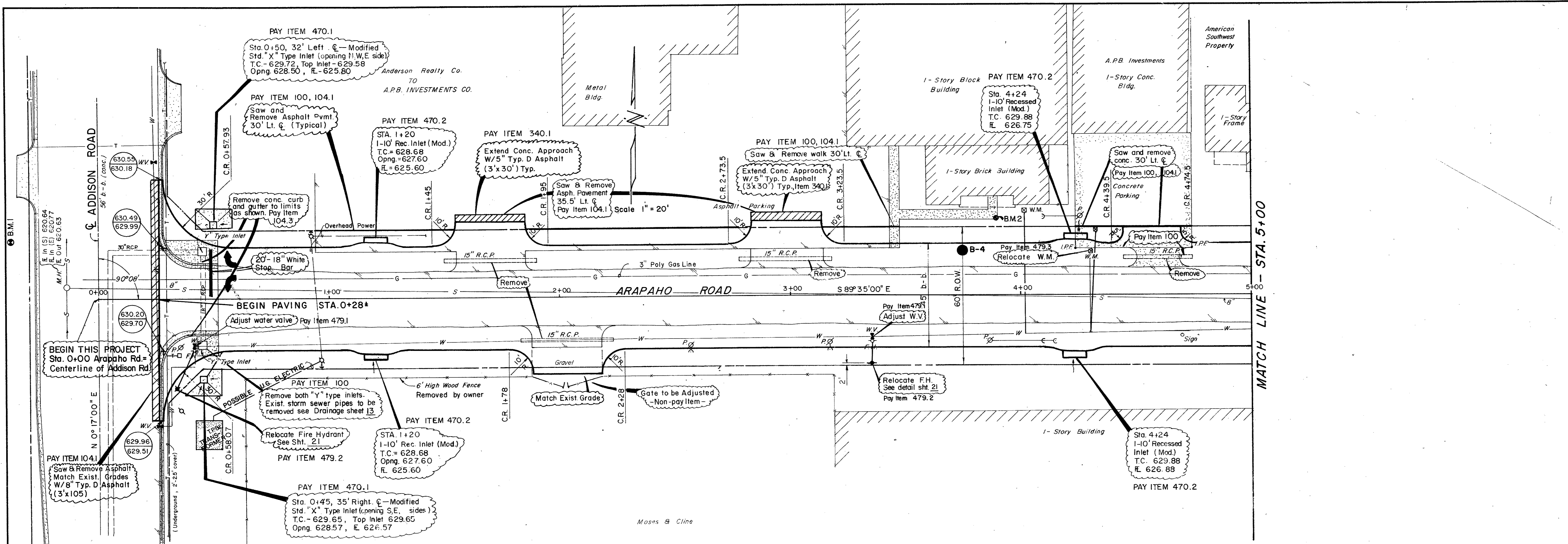


CITY OF ADDISON  
DALLAS COUNTY, TEXAS  
**ARAPAHO ROAD / QUORUM DRIVE**

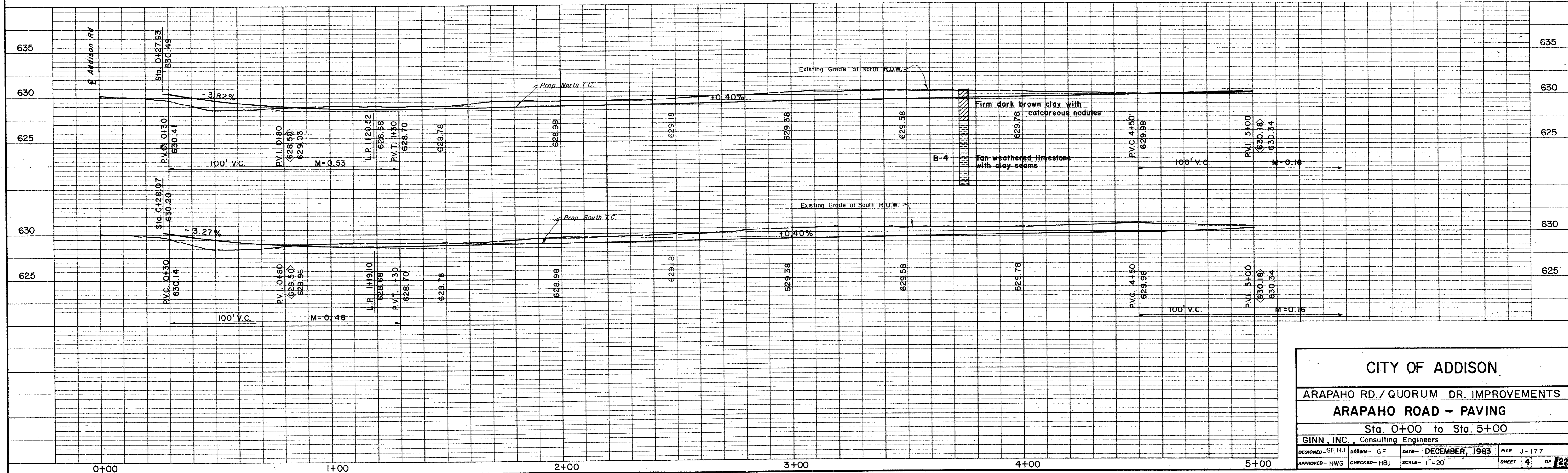
**CONSTRUCTION SEQUENCE**

**GINN, INC.**  
Consulting Engineers - Dallas, Texas

Designed - G.F.	Drawn - G.F./R.B.	Date - DECEMBER, 1983	Job No. J-177
Approved - HWG	Checked - H.B.J.	Scale - 1" = 60'	Sheet 3 of 22



B.M.1 "□" On Corner of Loading Dock at Howard Green Furniture - 15289 Addison Road (Elev. 629.854)  
 B.M.2 "□" On S.E. Corner of Concrete Walk at Front Entrance to 4805 Arapaho Rd. (Elev. 630.66)



<b>CITY OF ADDISON</b>			
ARAPAHO RD./QUORUM DR. IMPROVEMENTS			
<b>ARAPAHO ROAD - PAVING</b>			
Sta. 0+00 to Sta. 5+00			
GINN, INC., Consulting Engineers			
DESIGNED - GF, HJ	DRAWN - GF	DATE - DECEMBER, 1983	FILE J-177
APPROVED - HWG	CHECKED - HBJ	SCALE - 1" = 20'	SHEET 4 OF 22

MATCH LINE - STA. 5+00

MATCH LINE - STA. 10+00

Reverse Curve Data  
 $\Delta = 16^\circ 46' 00''$   
 $R = 329.31'$   
 $T = 48.53'$   
 $L = 96.37'$

NOTE: Sta. 6+75 to 7+10  
 St. Louis Railroad shall be Notified at 214/980-1596 Prior to working in area. Contractor shall obtain best compaction possible between Tracks as directed by Engineer.

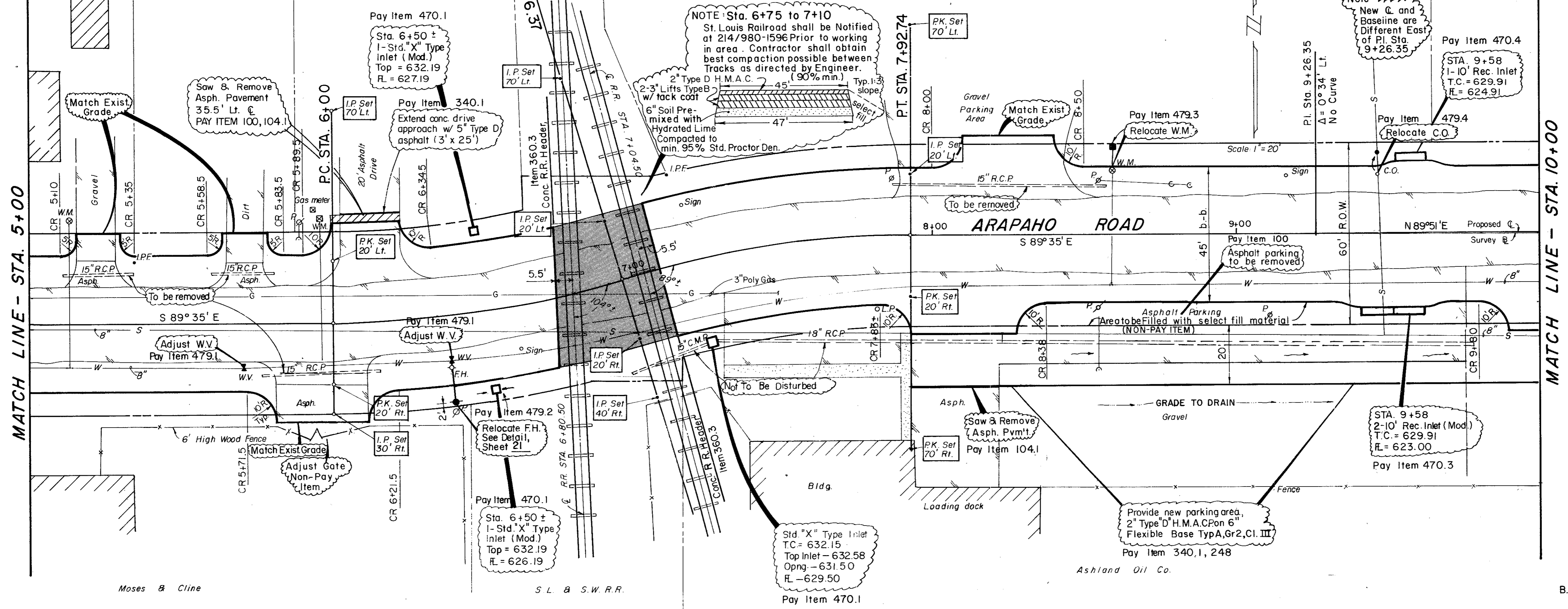
Note:  
 New C. and Base line are Different East of Pl. Sta. 9+26.35

A.P.B. Investments  
 Seth Stevens  
 To  
 American Southwest Prop.

Robert L. Vaughn  
 Irene Vaughn

M.C.M. Co.

S.L.B.S.W.R.R.

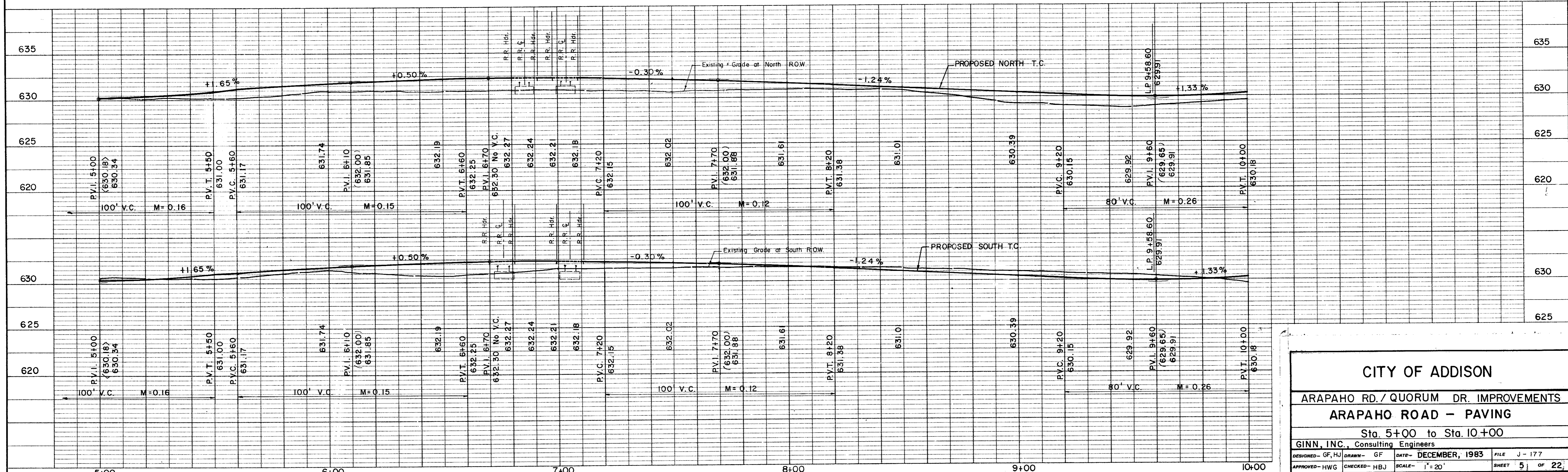


Moses & Cline

S.L.B.S.W.R.R.

Ashland Oil Co.

B.M. 2 "□" on S.E. corner of conc. walk at Front Entrance to 4805 Arapaho Rd. ELEV 630.66

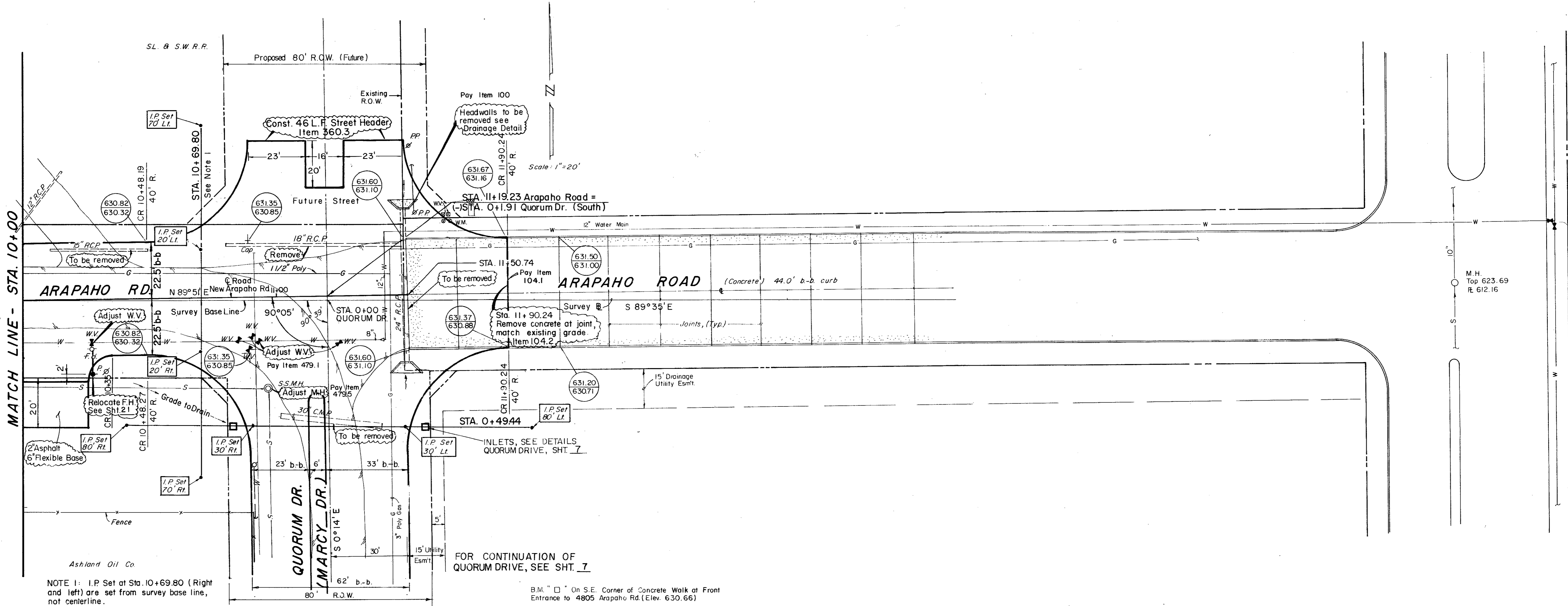


**CITY OF ADDISON**

ARAPAHO RD. / QUORUM DR. IMPROVEMENTS  
**ARAPAHO ROAD - PAVING**  
 Sta. 5+00 to Sta. 10+00

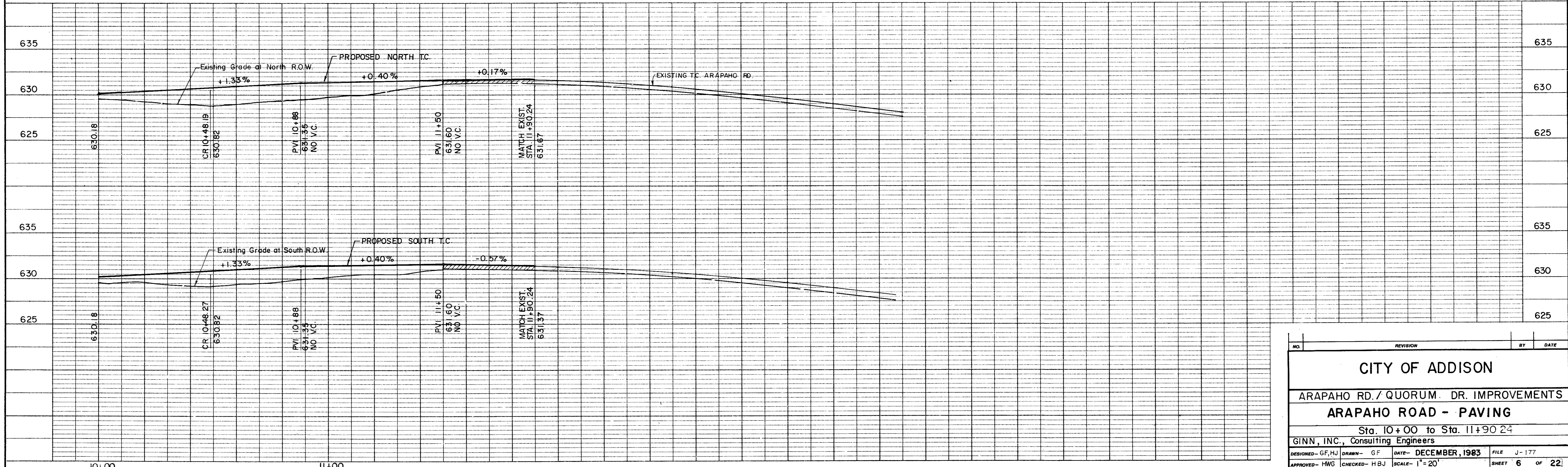
GINN, INC., Consulting Engineers

DESIGNED - GF, HJ    DRAWN - GF    DATE - DECEMBER, 1983    FILE J-177  
 APPROVED - HWG    CHECKED - HBJ    SCALE - 1" = 20'    SHEET 5 OF 22

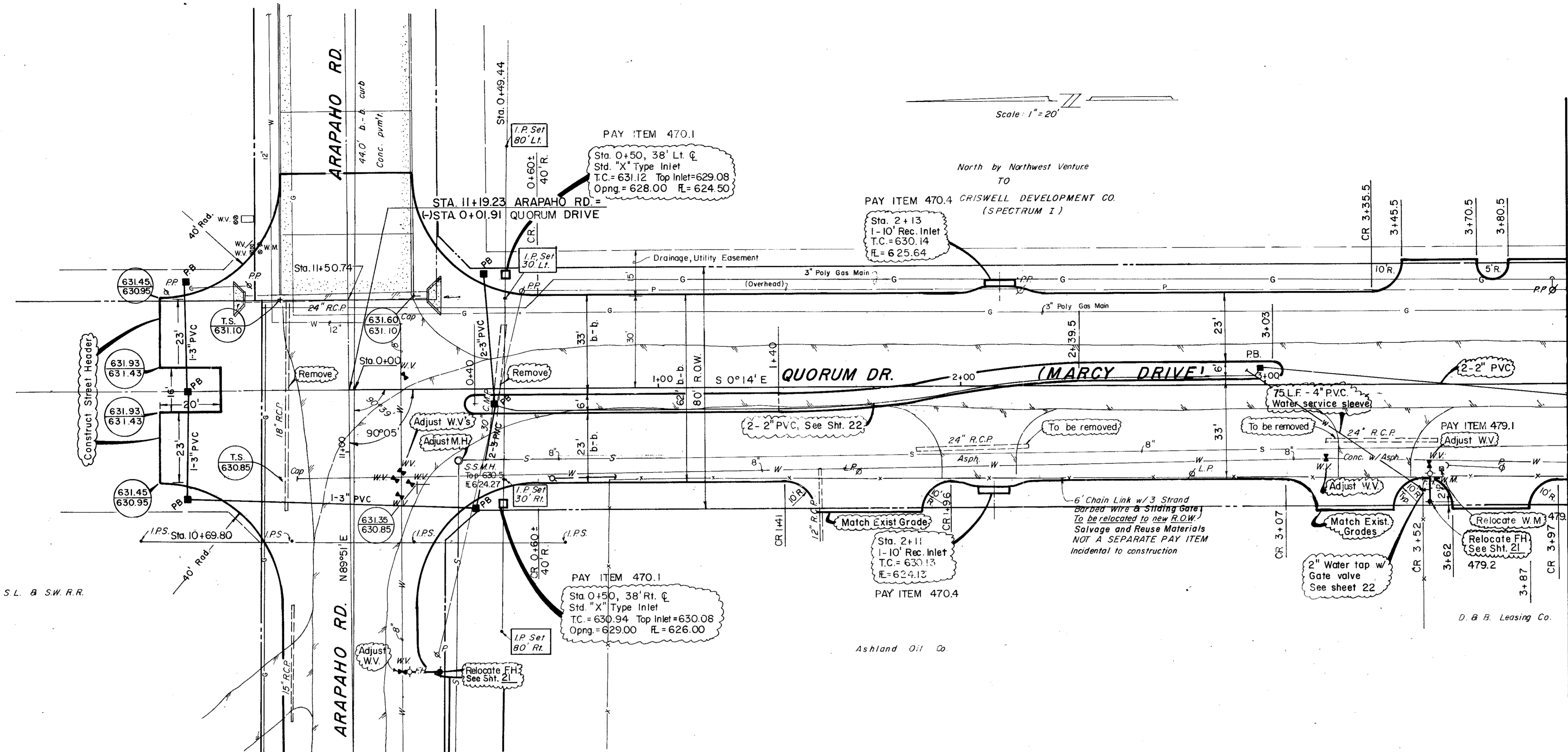


NOTE 1: I.P. Set at Sta. 10+69.80 (Right and left) are set from survey base line, not centerline.

B.M. "□" On S.E. Corner of Concrete Walk at Front Entrance to 4805 Arapaho Rd. (Elev. 630.66)



NO.	REVISION	BY	DATE
<b>CITY OF ADDISON</b>			
<b>ARAPAHO RD. / QUORUM DR. IMPROVEMENTS</b>			
<b>ARAPAHO ROAD - PAVING</b>			
Sta. 10+00 to Sta. 11+90.24			
GINN, INC., Consulting Engineers			
DESIGNED - GF, HJ	DRAWN - GF	DATE - DECEMBER, 1983	FILE - J-177
APPROVED - HWG	CHECKED - HBJ	SCALE - 1" = 20'	SHEET 6 OF 22



Scale: 1" = 20'

North by Northwest Venture TO

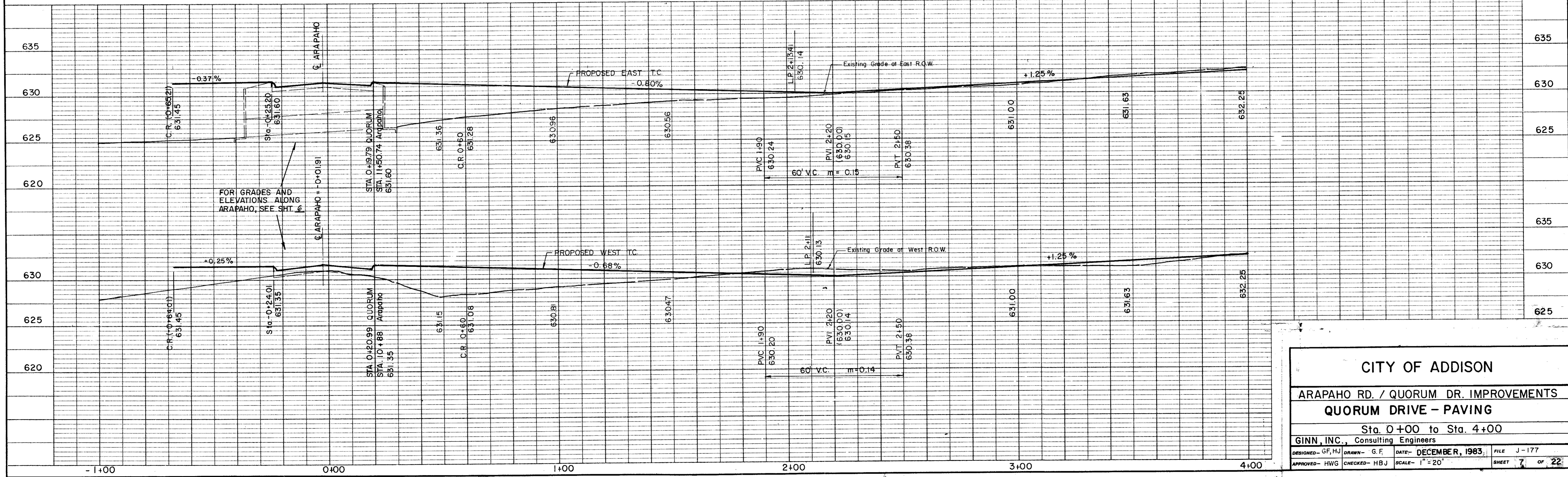
PAY ITEM 470.4 CRISWELL DEVELOPMENT CO. (SPECTRUM 1)

QUORUM DR. (MARCY DRIVE)

MATCH LINE - STA. 4+00

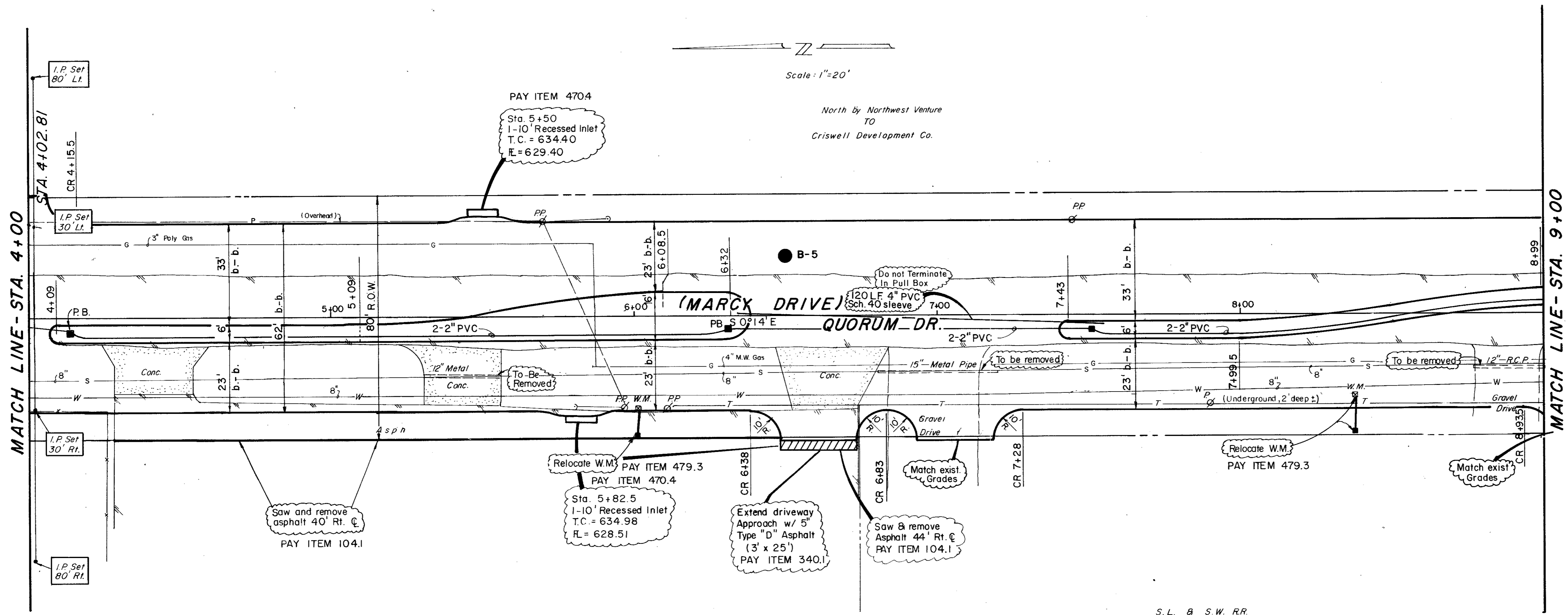
S.L. & S.W.R.R.

B.M. "O" On S.E. Corner of Retaining Wall at S.E. Corner of Building at Whittaker Metals, 15251 Marcy Rd. (Elev. 637.61)



<b>CITY OF ADDISON</b>			
<b>ARAPAHO RD. / QUORUM DR. IMPROVEMENTS</b>			
<b>QUORUM DRIVE - PAVING</b>			
Sta. 0+00 to Sta. 4+00			
GINN, INC., Consulting Engineers			
DESIGNED - GF, HJ	DRAWN - G.F.	DATE - DECEMBER, 1983	FILE J-177
APPROVED - HWG	CHECKED - HBJ	SCALE - 1" = 20'	SHEET 7 OF 22





Scale: 1"=20'

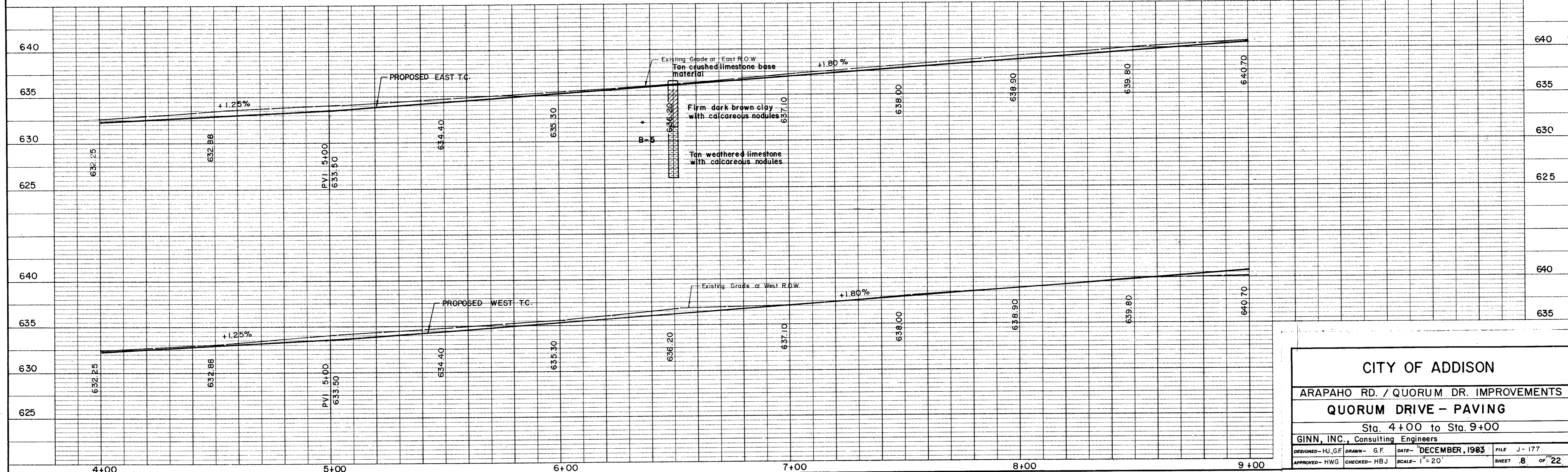
North by Northwest Venture  
TO  
Criswell Development Co.

D. B. B. Leasing Co.  
TO  
S.T.L. & S.W. R.R.

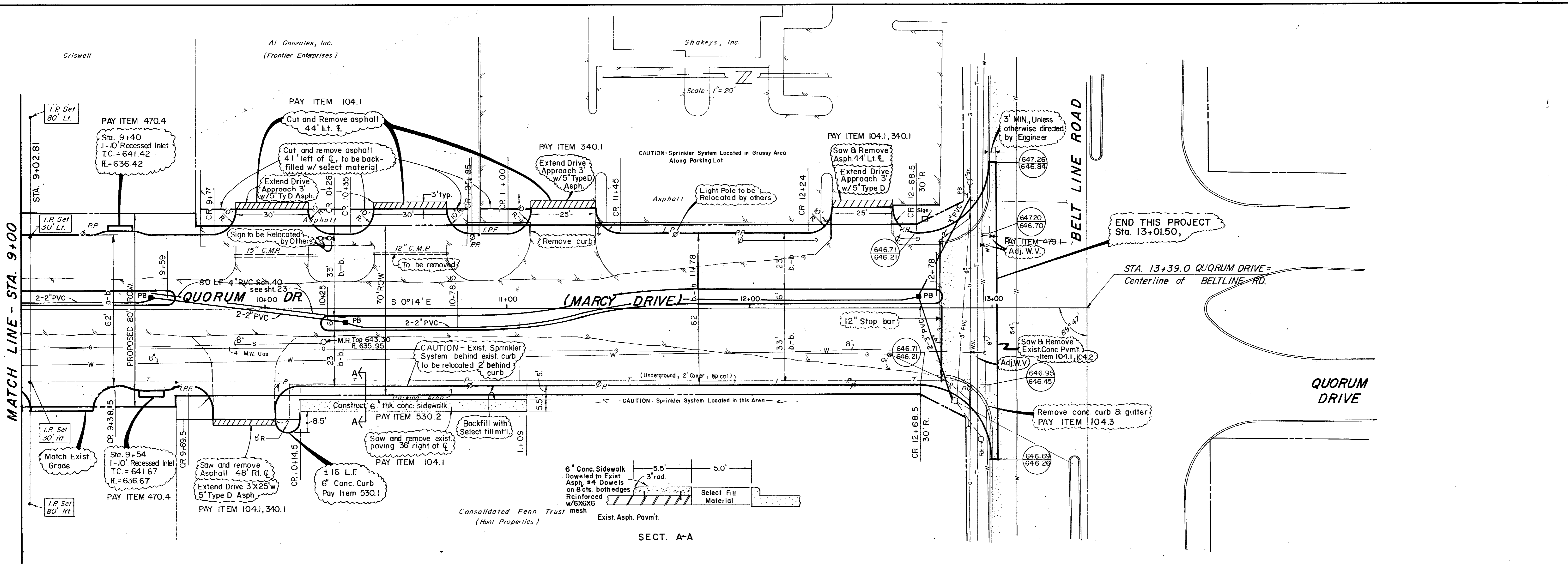
S.L. & S.W. R.R.

NOTE:  
3" PVC Sch. 40 shall have  
Long radius sweeps with  
Capped off Risers to 6"  
above ground level.  
See Details Sht. 22

B.M. "□" On S.E. Corner of Retaining Wall at S.E. Corner of  
Building at Whittaker Metals, 15251 Marcy Rd. (Elev. 637.61)



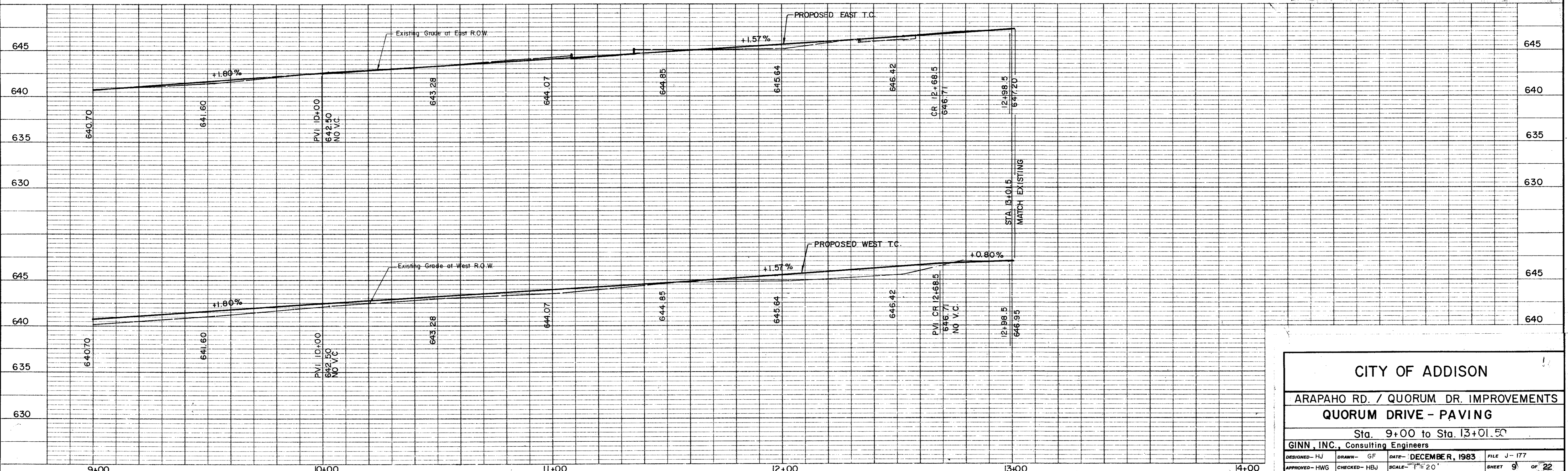
<b>CITY OF ADDISON</b>			
ARAPAHO RD. / QUORUM DR. IMPROVEMENTS			
<b>QUORUM DRIVE - PAVING</b>			
Sta. 4+00 to Sta. 9+00			
GINN, INC., Consulting Engineers			
DESIGNED - HJ, G.F.	DRAWN - G.F.	DATE - DECEMBER, 1983	FILE J-177
APPROVED - HWG	CHECKED - HBJ	SCALE - 1"=20'	SHEET 8 OF 22



**SECT. A-A**

NOTE: Any damage done to sprinkler systems due to construction operations shall be repaired or replaced immediately, to same or better condition, prior to damage, unless otherwise approved by engineer. This is not a separate pay item, but is considered incidental to construction.

B.M. "□" On S.E. Corner of Retaining Wall at S.E. Corner of Building For Whitaker Metals - 15251 Marcy Road (Elev. 637.61)  
 B.M. "□" On Curb at N.W. Corner of Walk at the N.W. Corner of Shakeys. Pizza Belt Line at Marcy Drive (Elev. 646.07)



**CITY OF ADDISON**

**ARAPAHO RD. / QUORUM DR. IMPROVEMENTS**

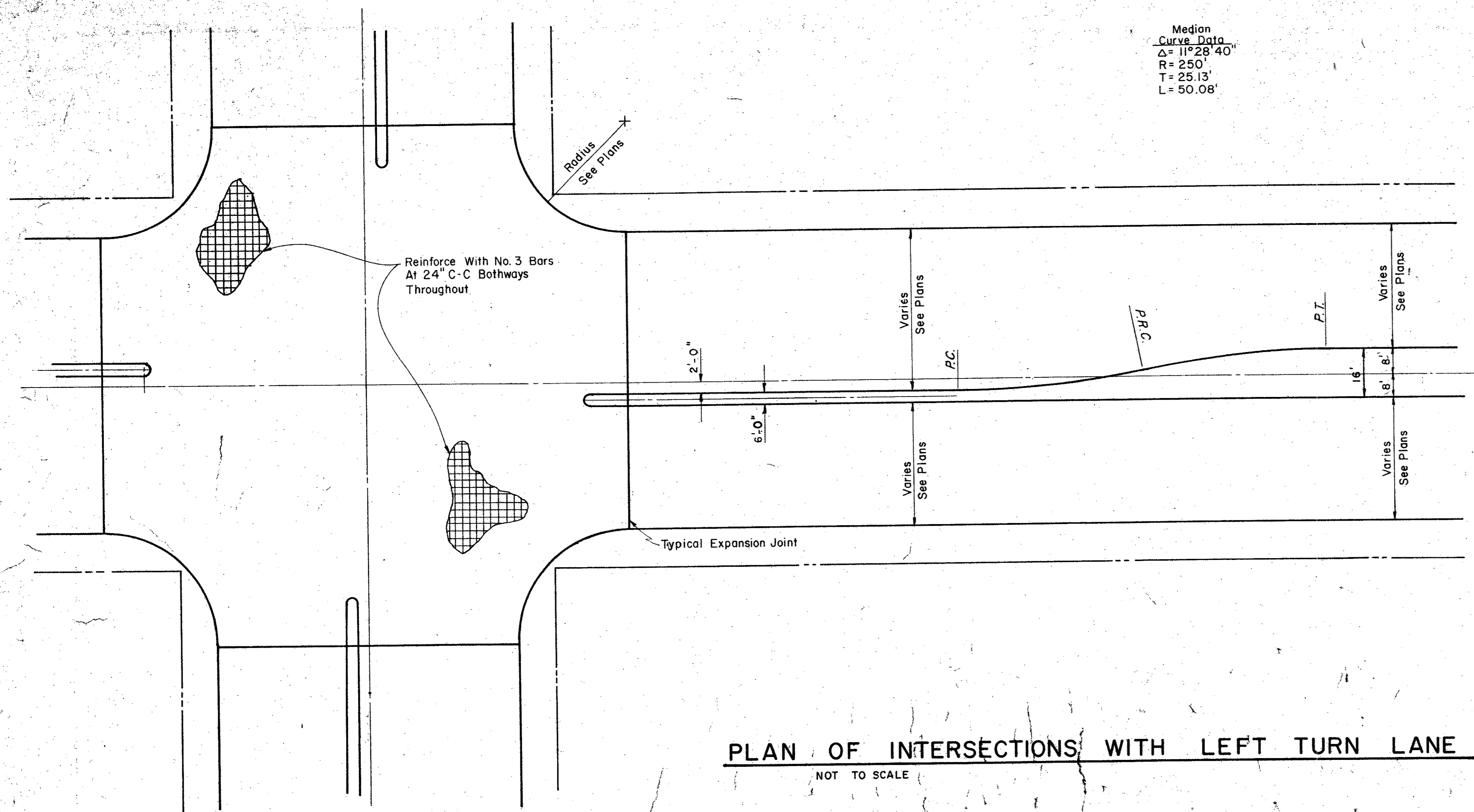
**QUORUM DRIVE - PAVING**

Sta. 9+00 to Sta. 13+01.50

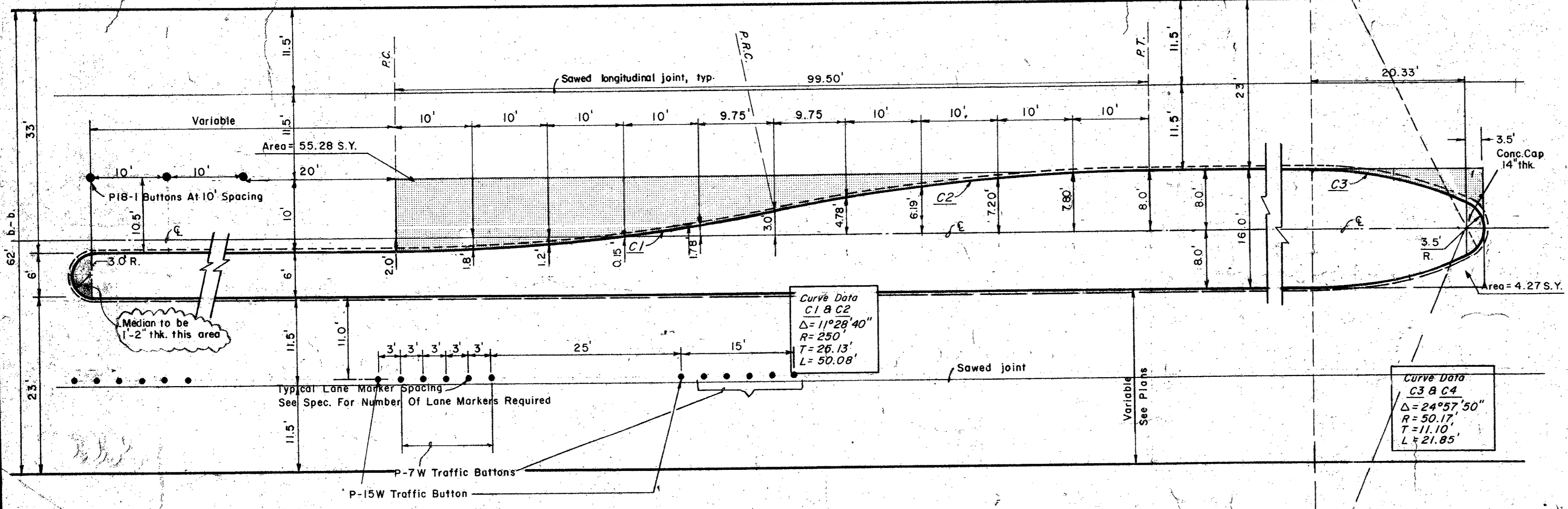
GINN, INC., Consulting Engineers

DESIGNED - HJ    DRAWN - GF    DATE - DECEMBER, 1983    FILE J-177

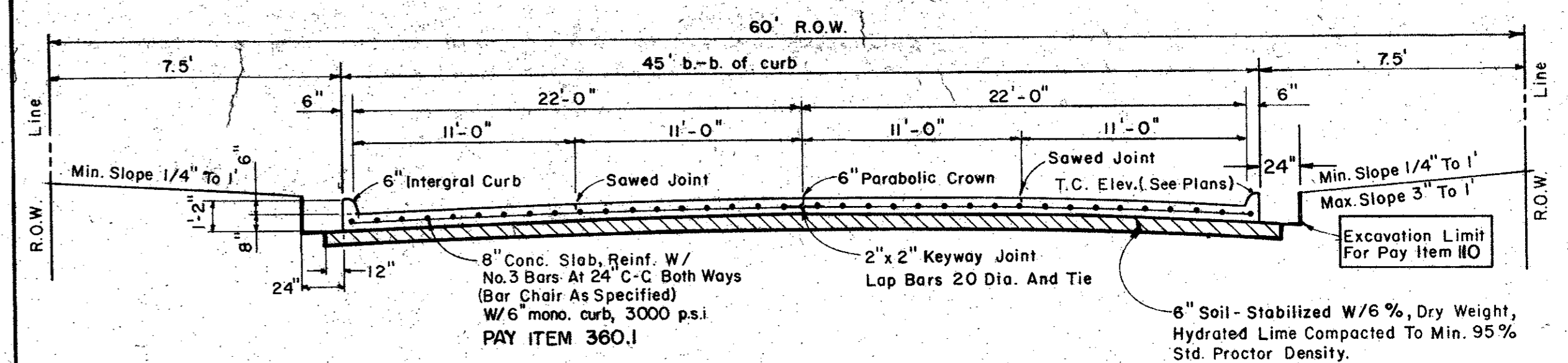
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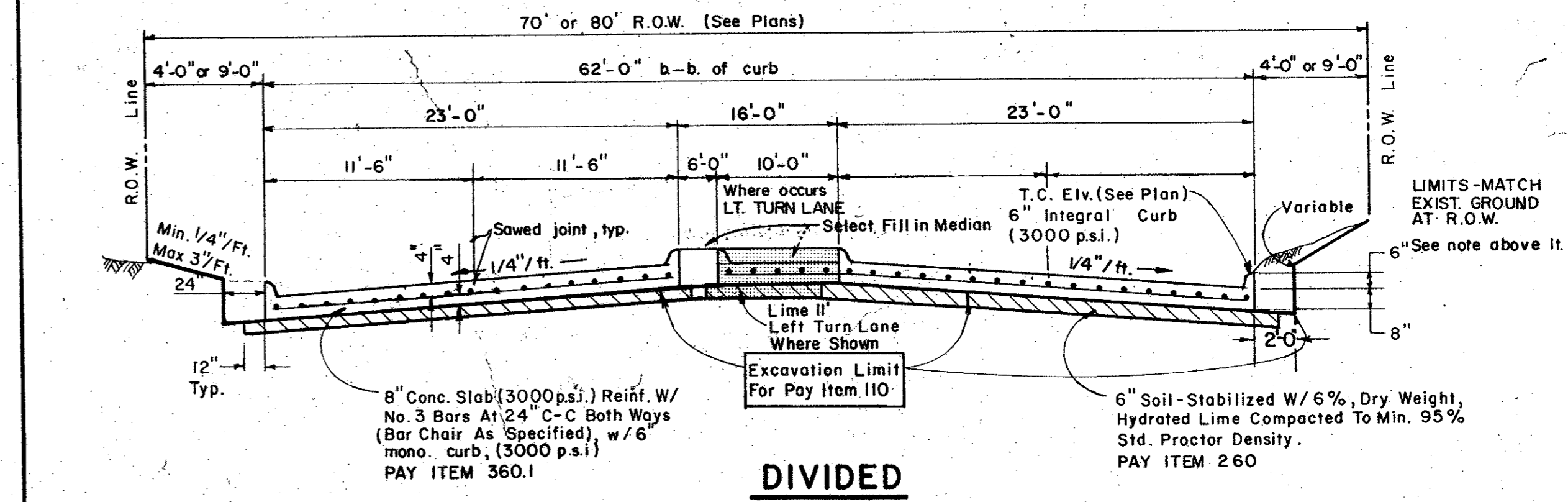
PLAN OF INTERSECTIONS WITH LEFT TURN LANE  
NOT TO SCALE



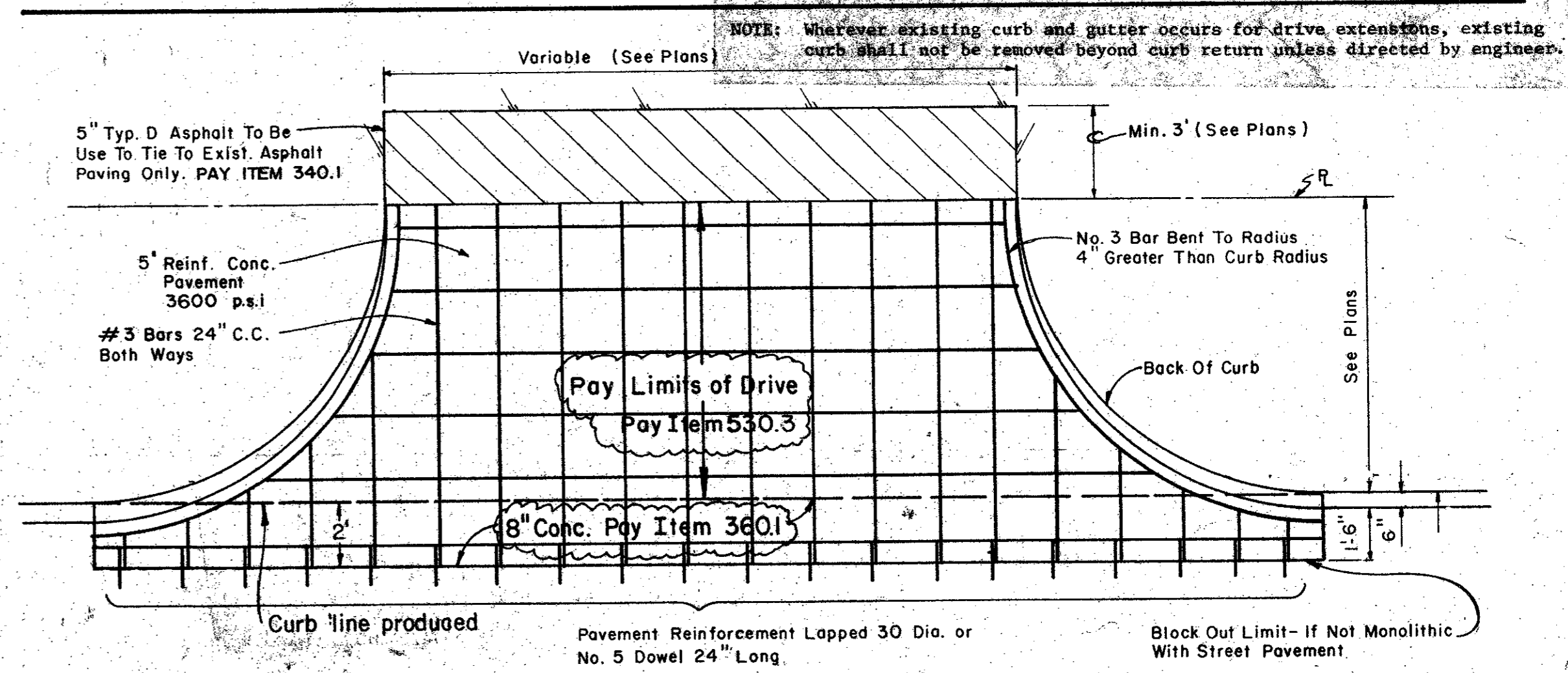
LEFT TURN LANE & LANE MARKER DETAIL



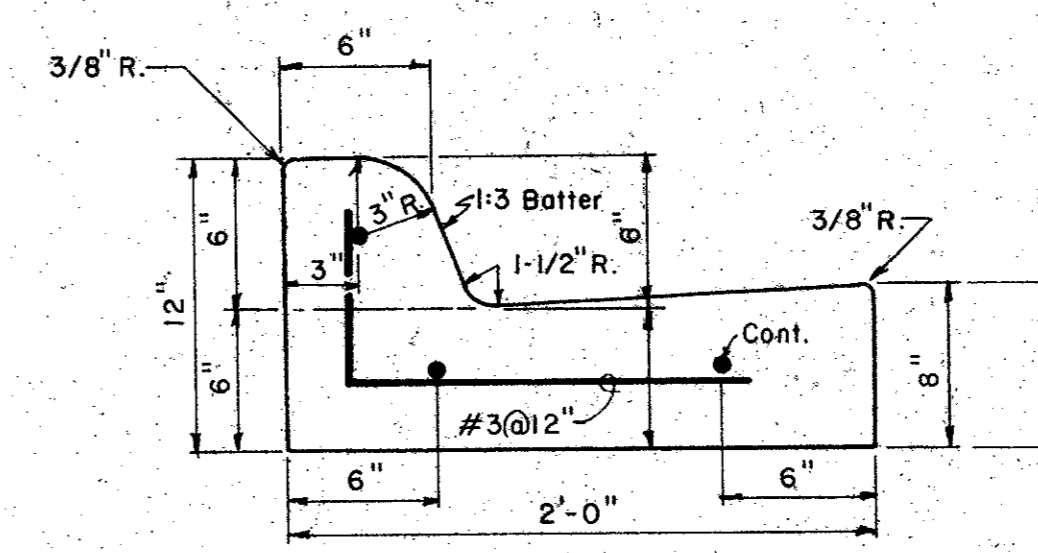
UNDIVIDED



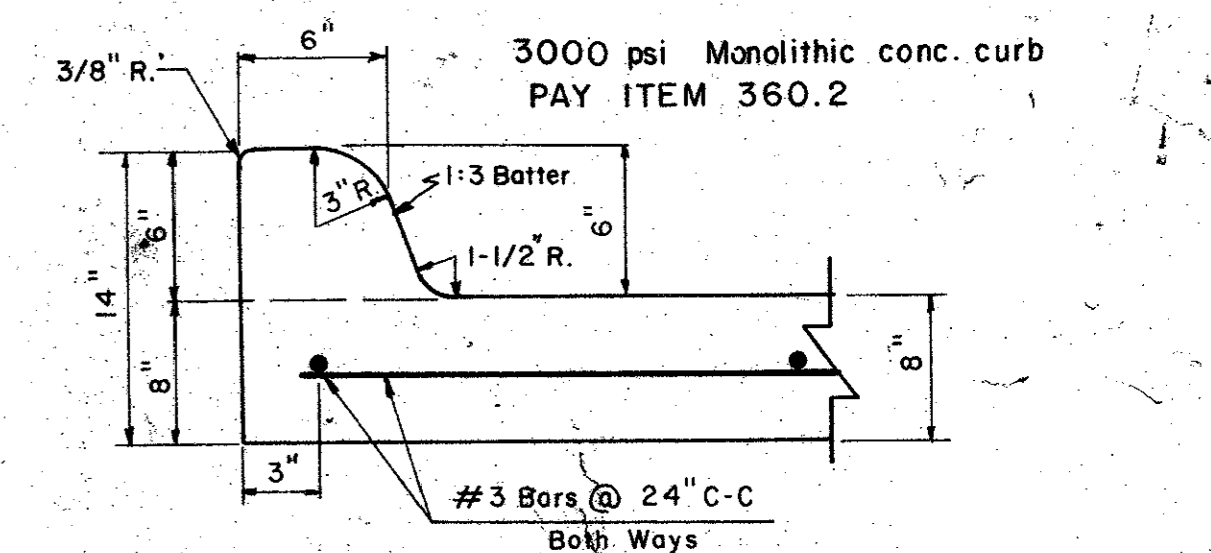
DIVIDED  
TYPICAL PAVING SECTION DETAILS



DRIVEWAY PAVING DETAIL



SEPARATE CURB & GUTTER  
REINFORCEMENT SHALL BE No. 5 BARS



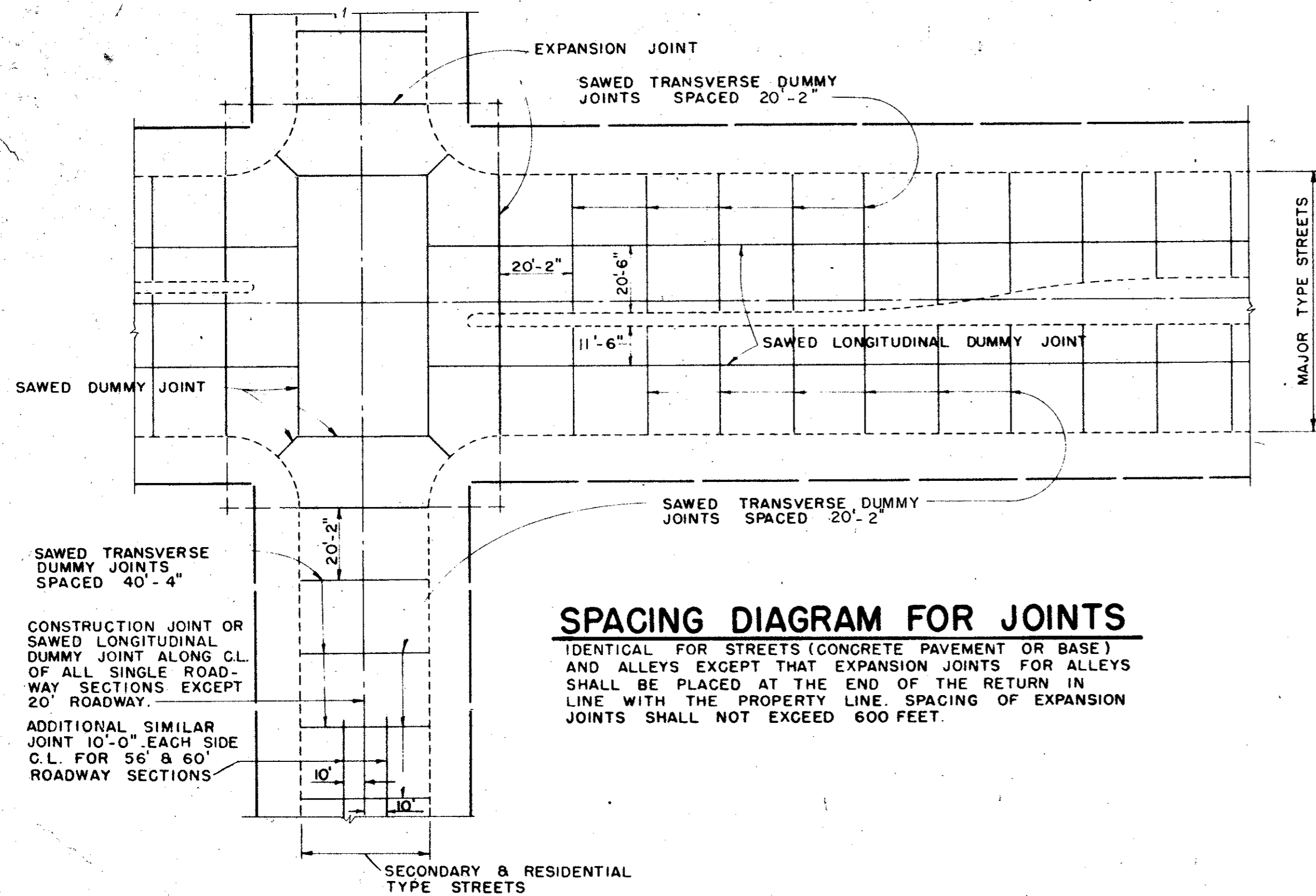
6" INTEGRAL CURB & GUTTER DETAIL

CITY OF ADDISON  
DALLAS COUNTY, TEXAS  
**ARAPAHO ROAD / QUORUM DRIVE**

**PAVING DETAILS A**

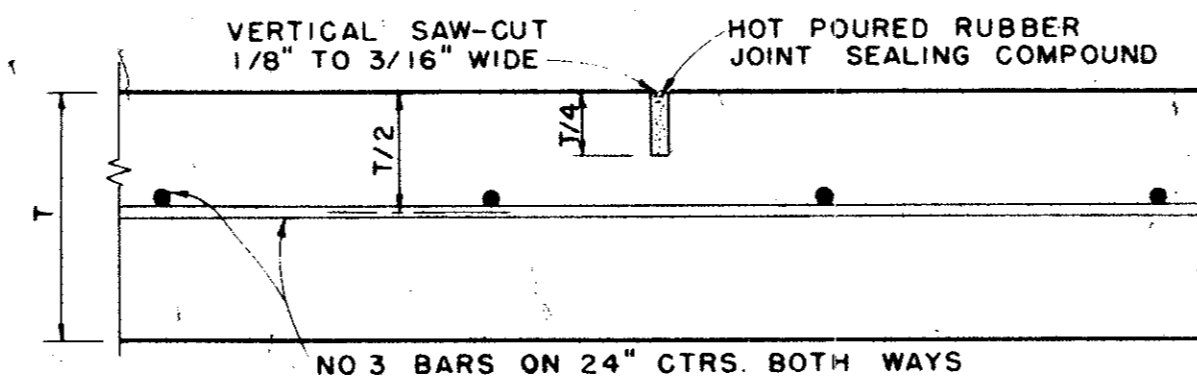
**GINN, INC.**  
Consulting Engineers Dallas, Texas

DESIGNED: G.F. DRAWN: G.F. DATE: DECEMBER 1983 SHEET NO. J-177  
APPROVED: H.G. CHECKED: G.F. SCALE: NONE SHEET 10 OF 22



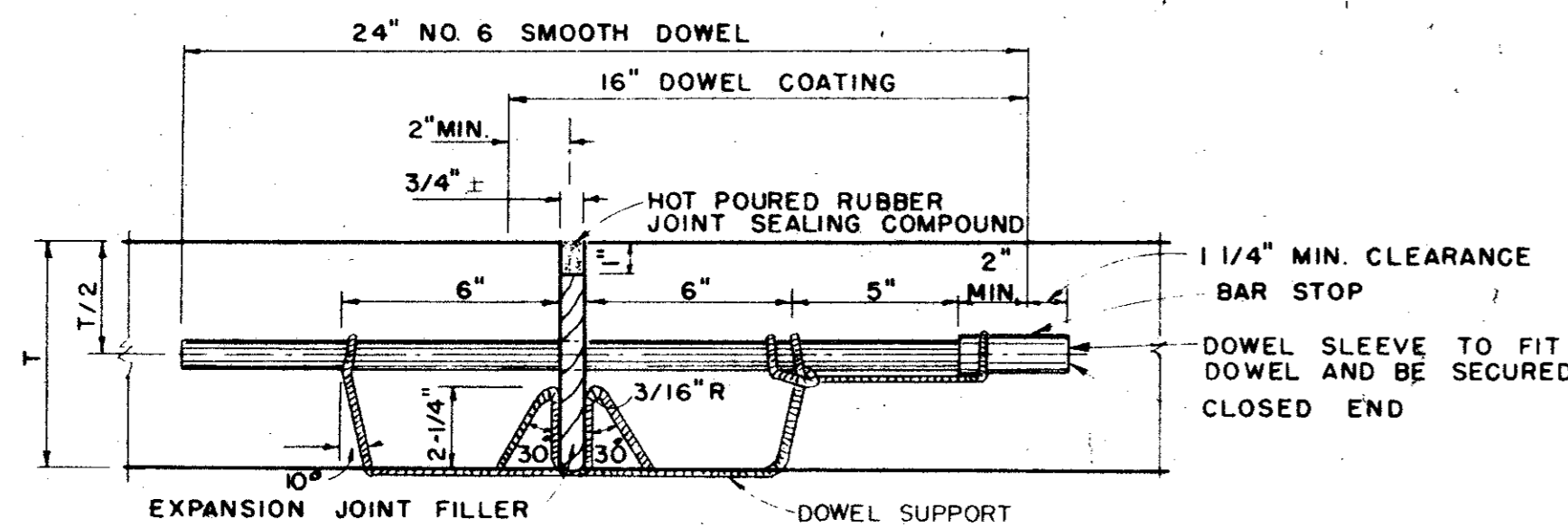
**SPACING DIAGRAM FOR JOINTS**

IDENTICAL FOR STREETS (CONCRETE PAVEMENT OR BASE) AND ALLEYS EXCEPT THAT EXPANSION JOINTS FOR ALLEYS SHALL BE PLACED AT THE END OF THE RETURN IN LINE WITH THE PROPERTY LINE. SPACING OF EXPANSION JOINTS SHALL NOT EXCEED 600 FEET.



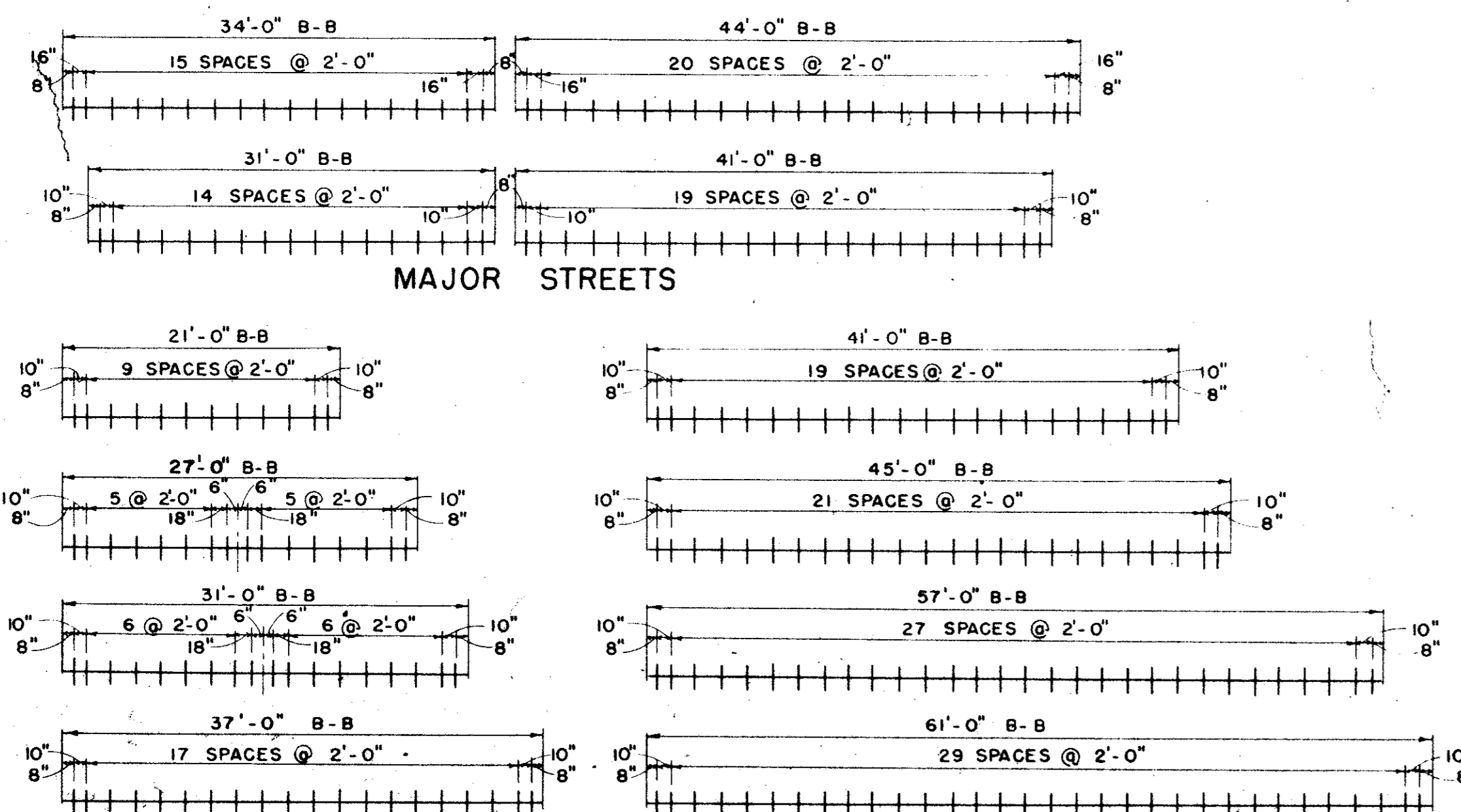
**SAWED DUMMY JOINT**

IDENTICAL FOR STREETS AND ALLEYS EXCEPT ALLEY LONGITUDINAL REINFORCEMENT BARS

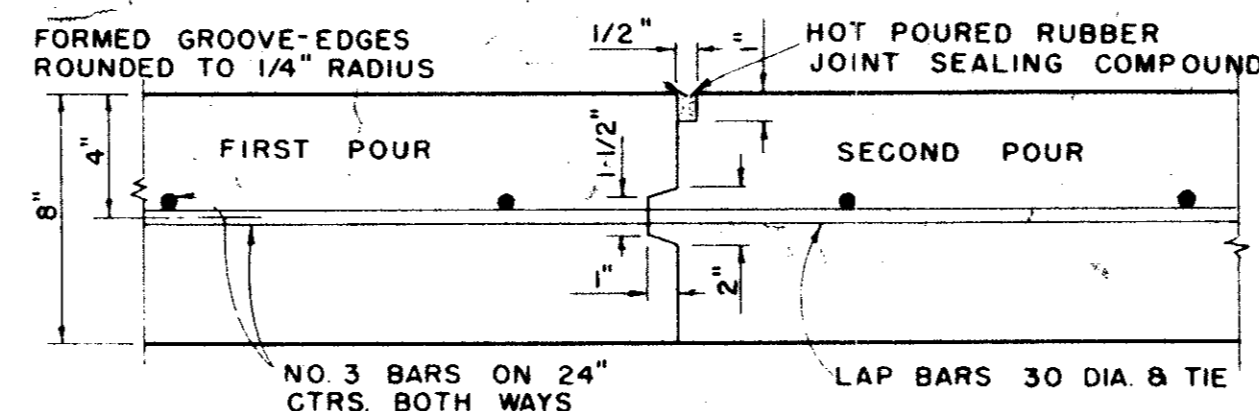


**TRANSVERSE EXPANSION JOINT**

IDENTICAL FOR STREETS & ALLEYS

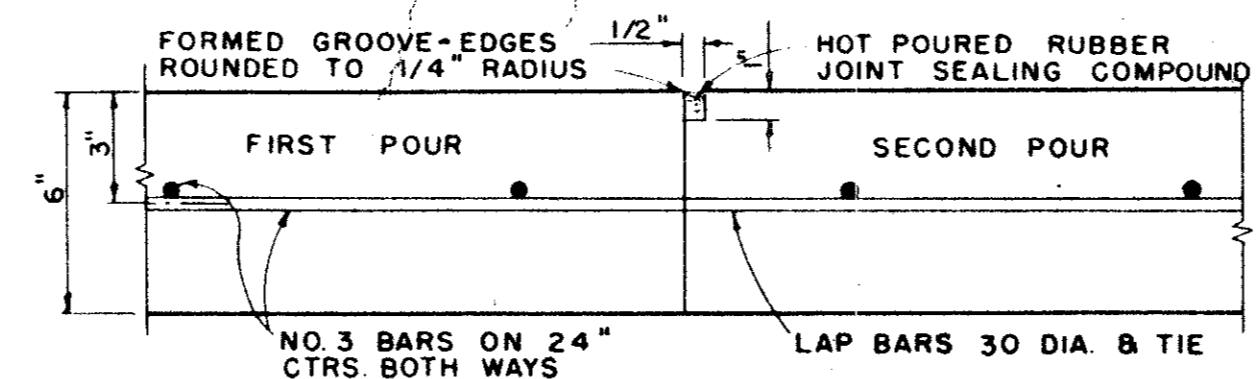


**SPACING DIAGRAM FOR DOWELS AT EXPANSION JOINTS**



**CONSTRUCTION JOINT**

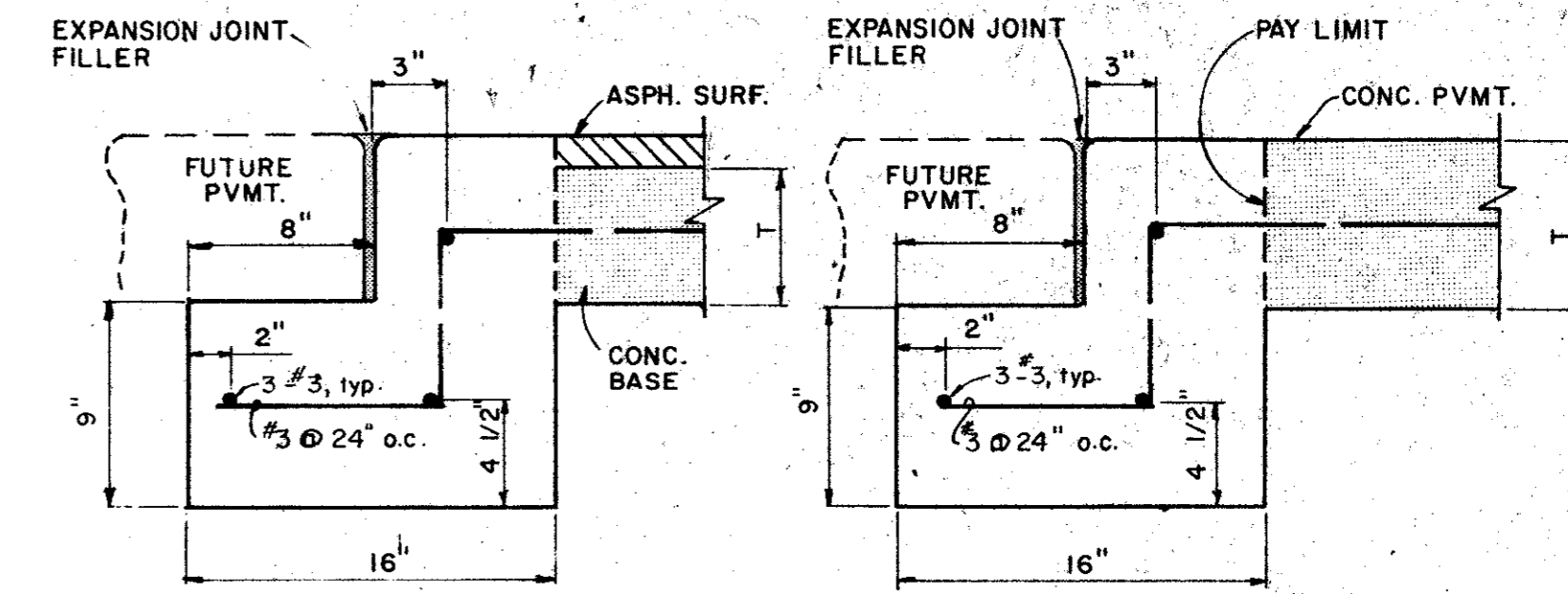
FOR 8" THICKNESS PAVEMENT OR BASE



**CONSTRUCTION JOINT**

FOR 6" THICKNESS PAVEMENT OR BASE

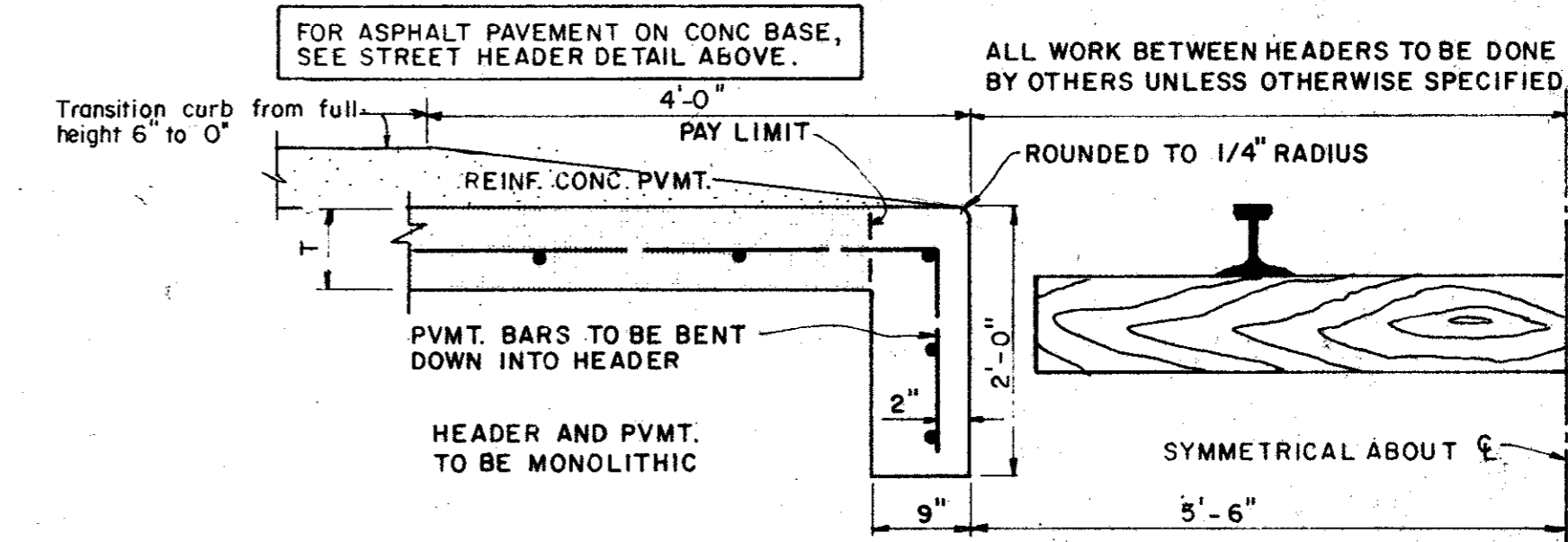
IDENTICAL FOR STREETS AND ALLEYS EXCEPT ALLEY LONGITUDINAL REINFORCEMENT BARS



PAVEMENT BARS TO BE BENT DOWN INTO HEADER. HEADER AND PAVEMENT TO BE MONOLITHIC.

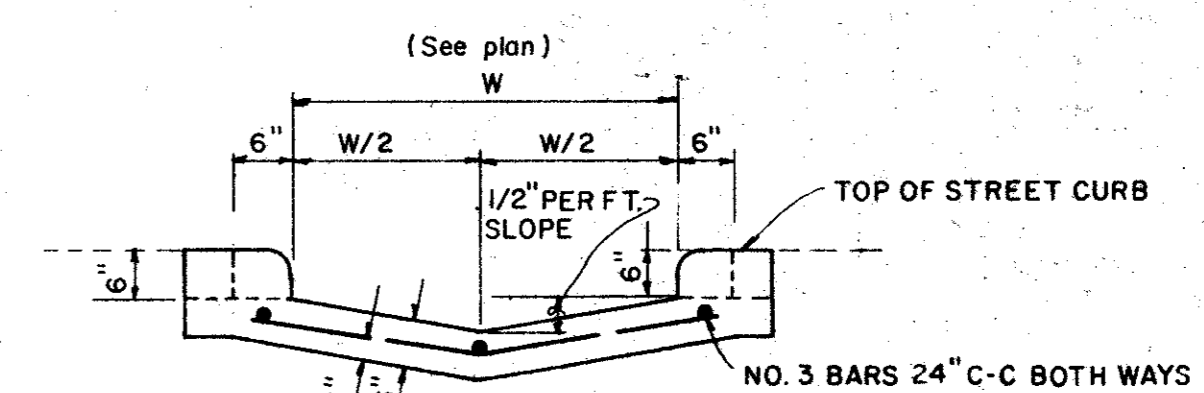
**STREET HEADER**

PAY ITEM 360.3

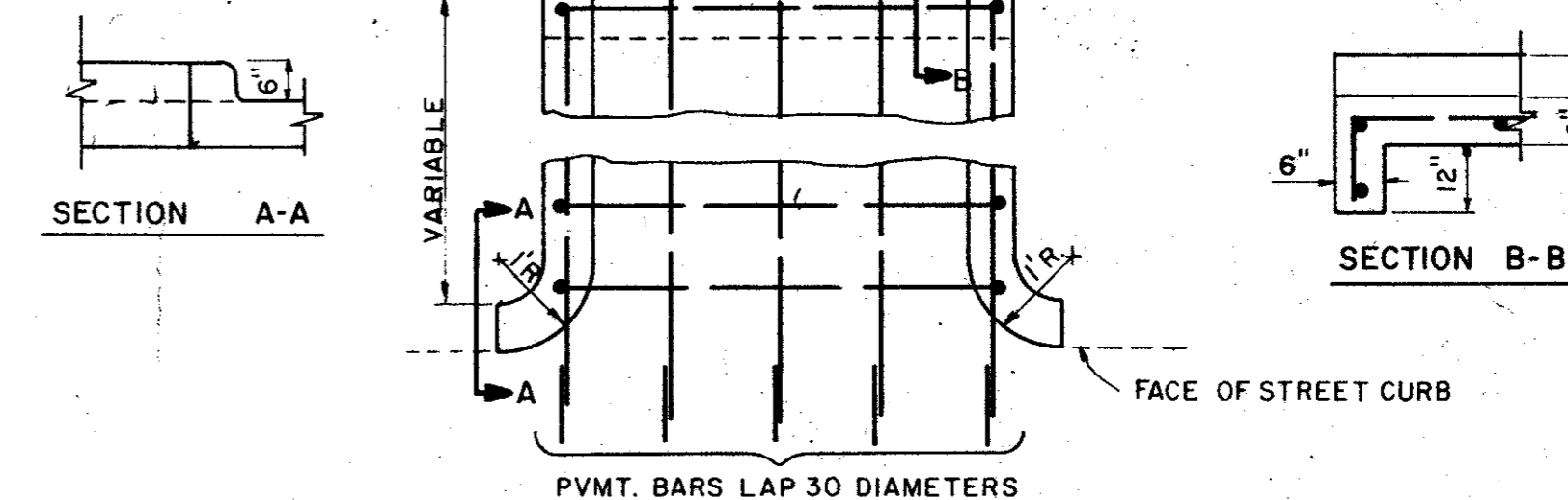


**RAILROAD HEADER**

PAY ITEM 360.3

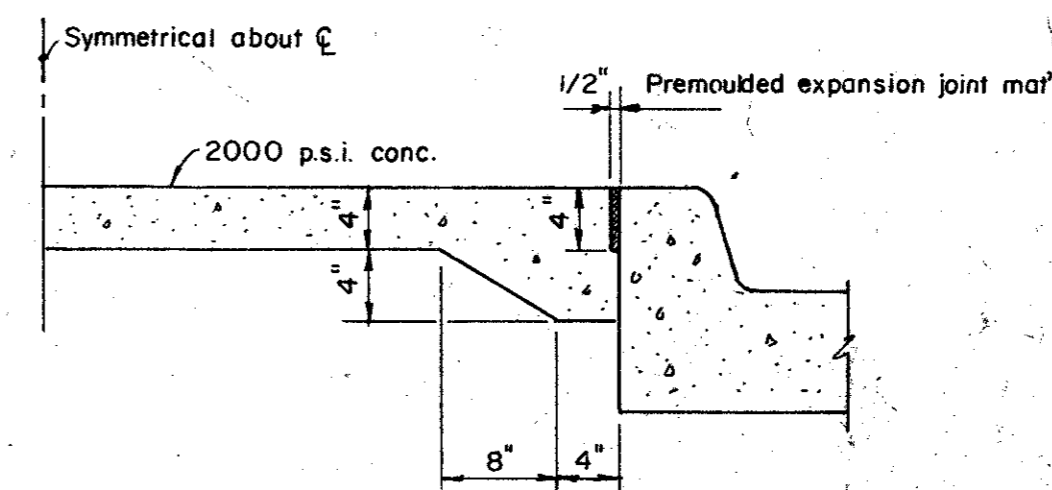


**SECTION AT CURB FACE**



**PLAN**

**FLUME**



**NON-REINFORCED MEDIAN PAVEMENT**

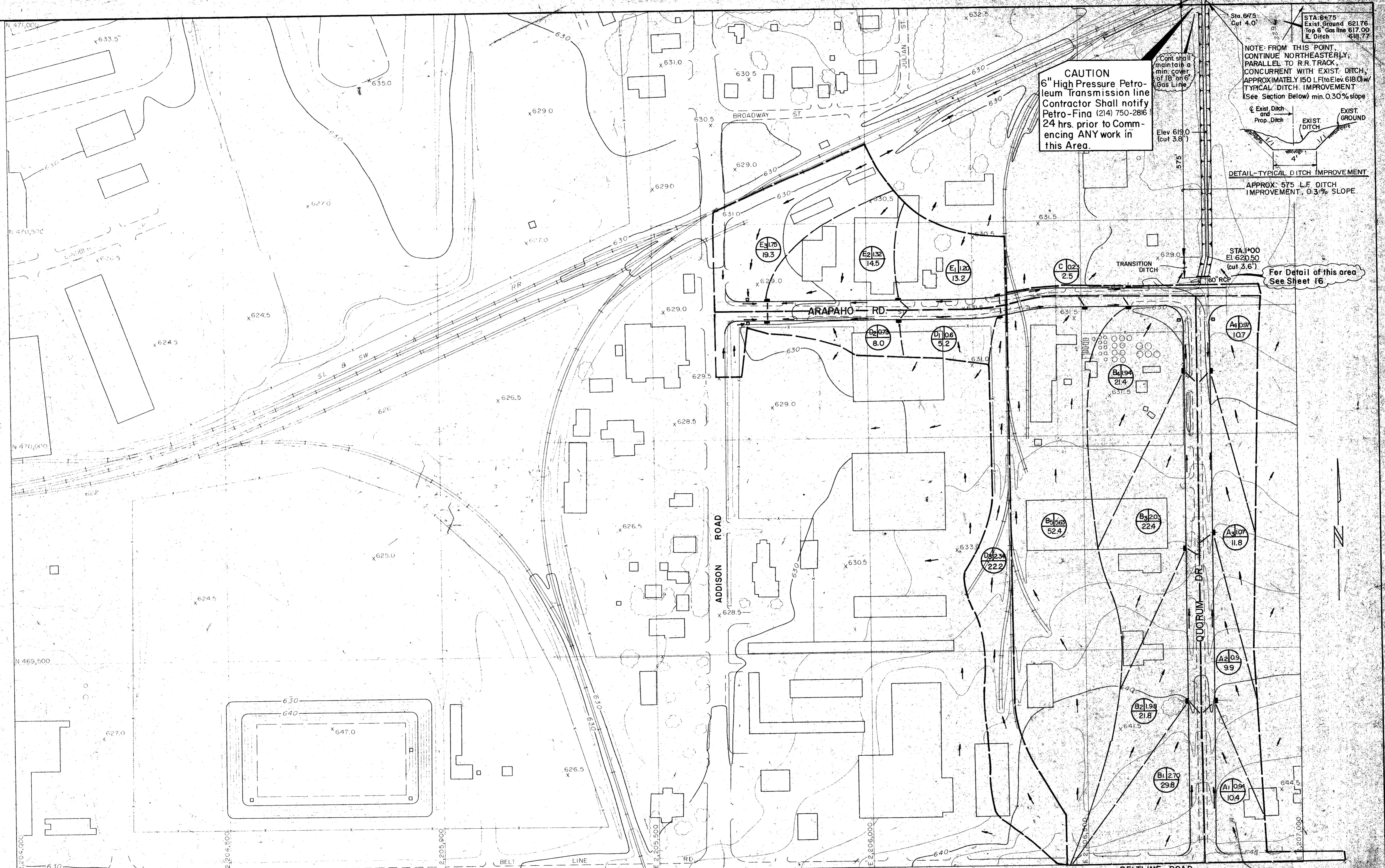
IN ALL AREAS LESS THAN 6' BC TO BC UNLESS OTHERWISE DIRECTED BY ENGINEER.

CITY OF ADDISON  
DALLAS COUNTY, TEXAS  
**ARAPAHO ROAD/QUORUM DRIVE**

**PAVING DETAILS B**

**GINN, INC.**  
Consulting Engineers Dallas, Texas

DESIGNED: G.F. DRAWN: G.F. DATE: DECEMBER 1983 JOB No. J 122  
APPROVED: H.G. CHECKED: G.F. SCALE: NONE SHEET 11 OF 22



**CAUTION**  
 6" High Pressure Petroleum Transmission line  
 Contractor Shall notify  
 Petro-Fina (214) 750-2816  
 24 hrs. prior to Commencing ANY work in  
 this Area.

Sta. 6+75  
 Cut 4.0'  
 STA. 6+75  
 Exist. Ground 621.76  
 Top 6" Gas line 617.00  
 E. Ditch 618.77

NOTE: FROM THIS POINT  
 CONTINUE NORTHEASTERLY,  
 PARALLEL TO R.R. TRACK,  
 CONCURRENT WITH EXIST. DITCH,  
 APPROXIMATELY 150 LF (to Elev. 618.0) W/  
 TYPICAL DITCH IMPROVEMENT  
 (See Section Below) min. 0.30% slope

EXIST. DITCH  
 Prop. Ditch  
 EXIST. GROUND

DETAIL-TYPICAL DITCH IMPROVEMENT  
 APPROX. 575 L.F. DITCH  
 IMPROVEMENT, 0.3% SLOPE

STA. 1+00  
 EL. 620.50  
 (cut 3.6')

For Detail of this area  
 See Sheet 16

DRAINAGE CALCULATIONS (Tech. Paper 40)  
 Rational Formula  $Q = C \cdot I \cdot A$ , where  $C = 0.95$

$I =$  Intensity, in./hr.  
 $I_{100}$  (min  $I = 11.6$ )  
 $I_{10}$  (minutes)

$A =$  Area, acres

AREA DESIGNATION  $\frac{B_2 \cdot 2.4}{34.6}$  ACRES  
 $Q_{100}$  (c.f.s.)

**CITY OF ADDISON**

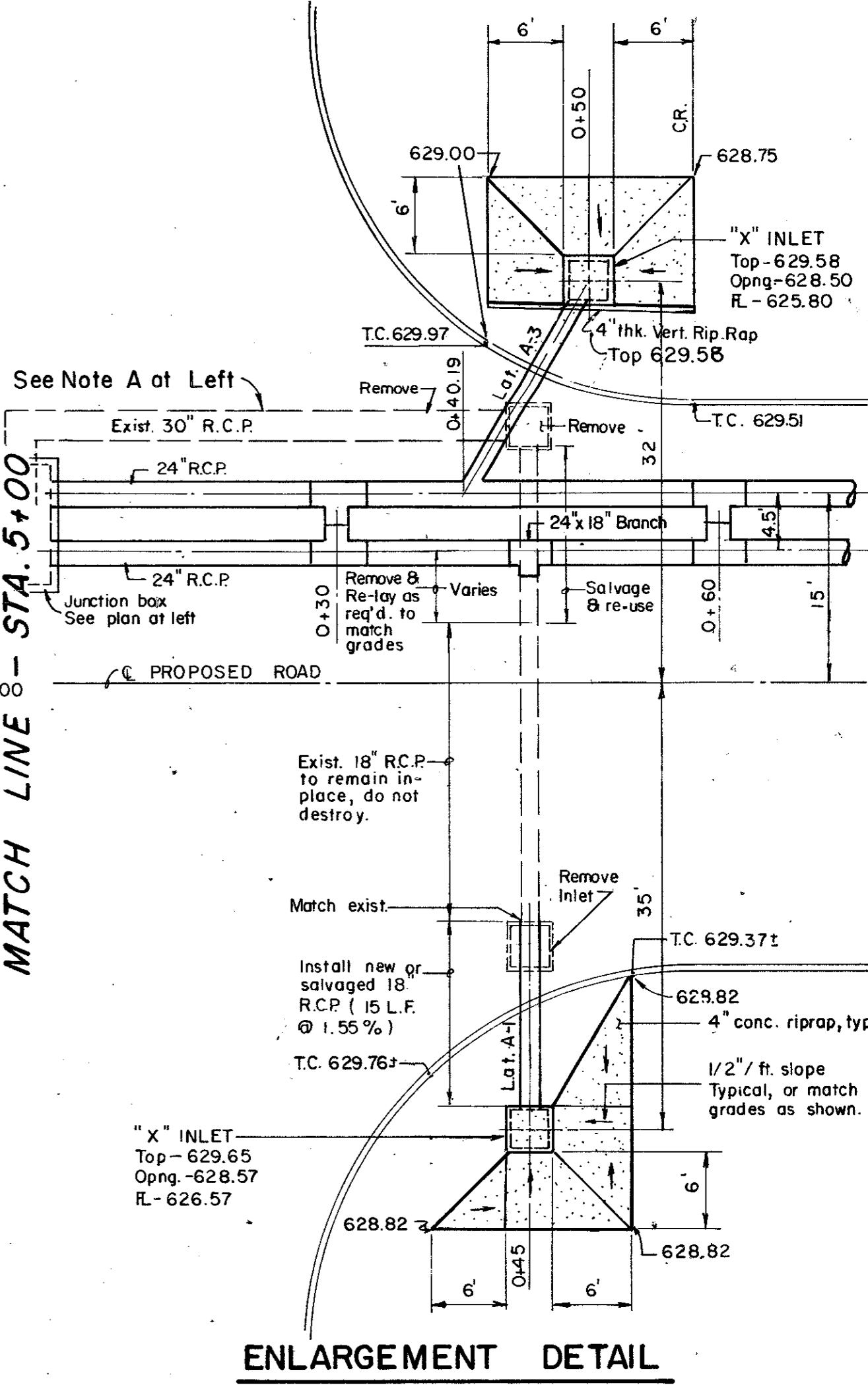
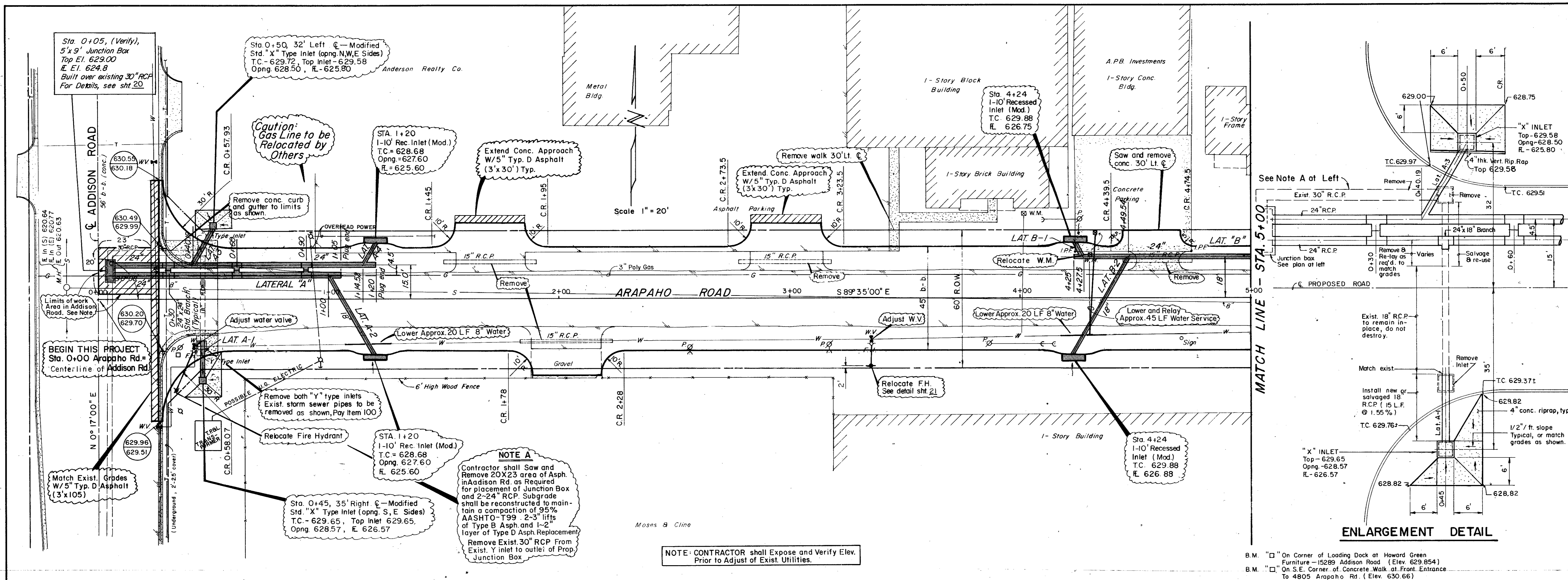
**ARAPAHO RD./QUORUM DR. IMPROVEMENTS**

**DRAINAGE AREA MAP**

GINN, INC., Consulting Engineers

Designed - G.F. Drawn - G.F. Date - **DECEMBER, 1983**

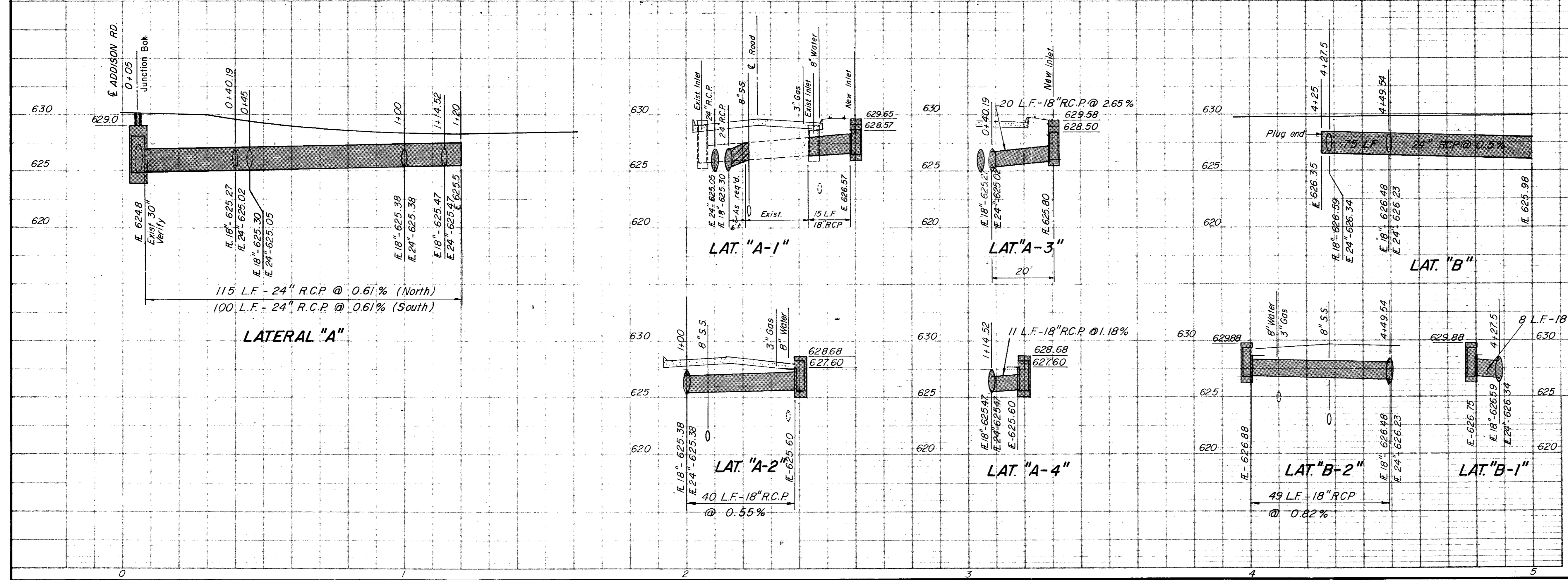
Approved - H.W.G. Checked - G.F. Scale - 1" = 100' Sheet 12 of 22



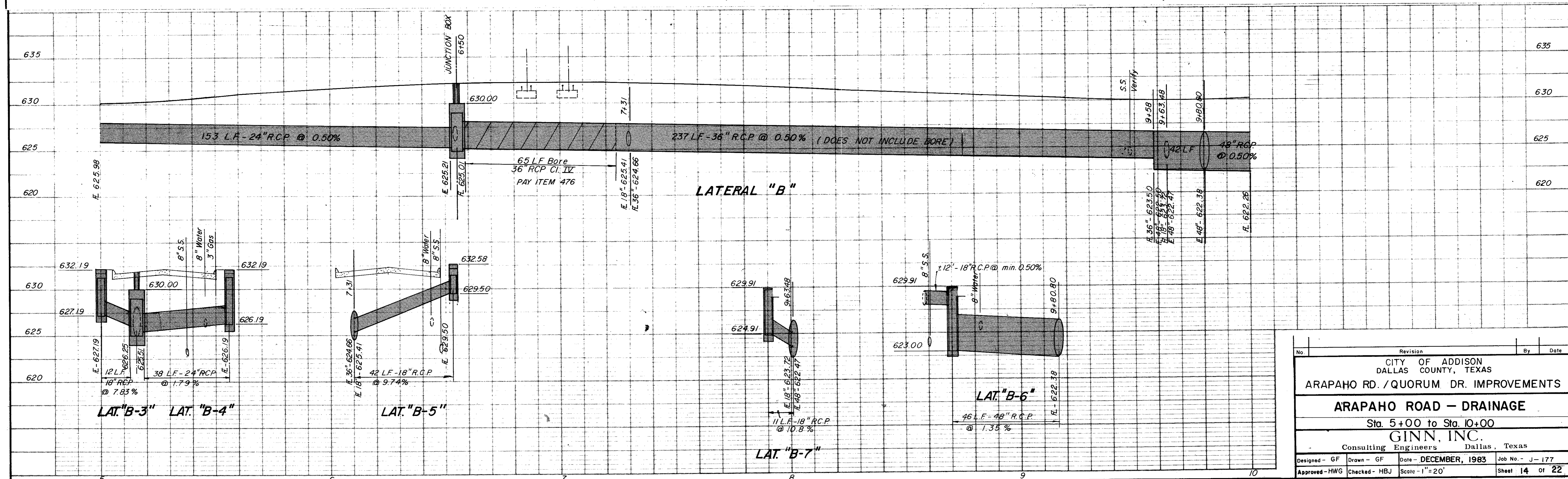
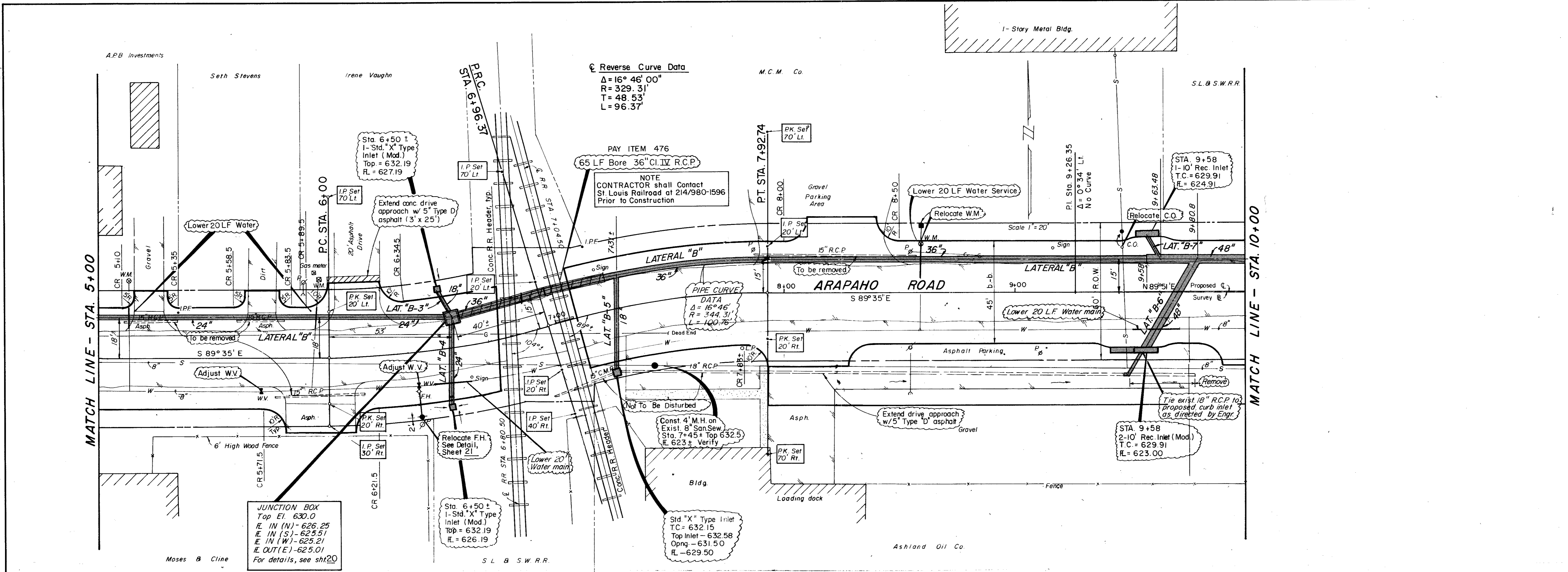
**NOTE A**  
Contractor shall Saw and Remove 20X23 area of Asph. in Addison Rd. as Required for placement of Junction Box and 2'-24\"/>

**NOTE - CONTRACTOR** shall Expose and Verify Elev. Prior to Adjust of Exist. Utilities.

B.M. "□" On Corner of Loading Dock at Howard Green Furniture - 15289 Addison Road (Elev. 629.854)  
B.M. "□" On S.E. Corner of Concrete Walk at Front Entrance to 4805 Arapaho Rd. (Elev. 630.66)



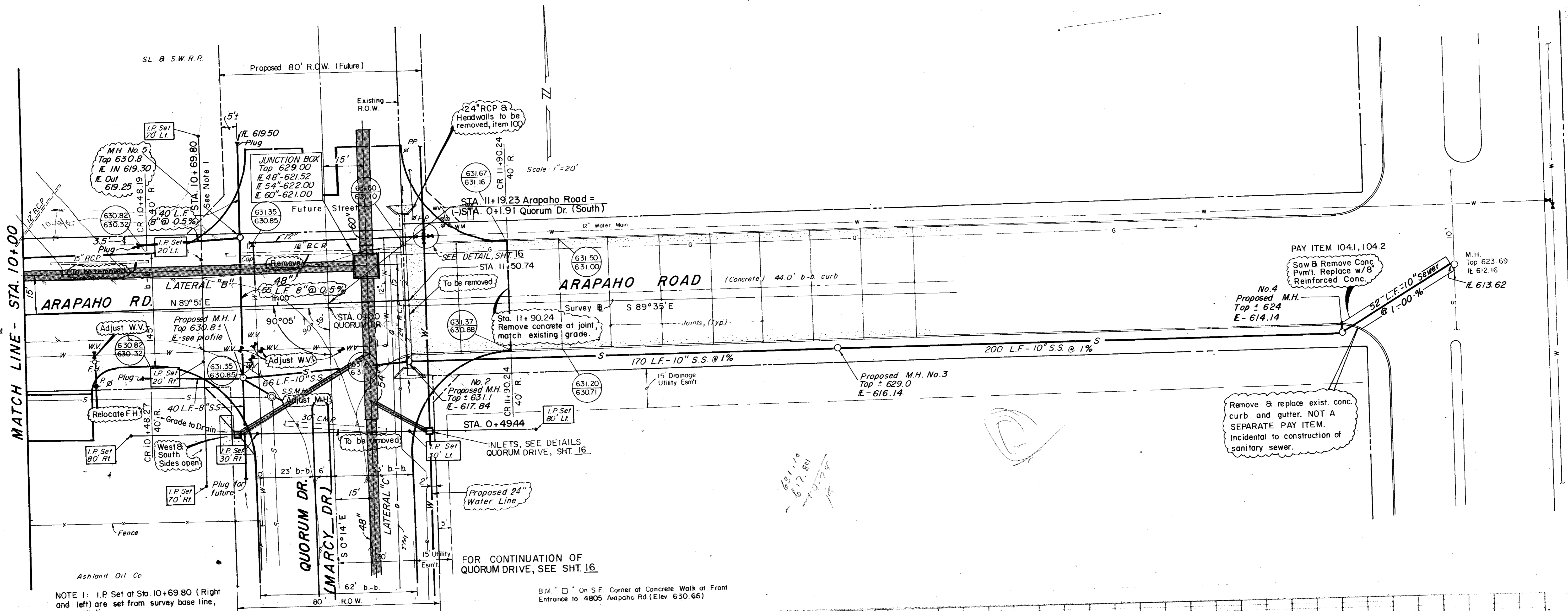
No.	Revision	By	Date
CITY OF ADDISON DALLAS COUNTY, TEXAS <b>ARAPAHO ROAD - DRAINAGE</b> Sta. 0+00 to Sta. 5+00 <b>GINN, INC.</b> Consulting Engineers Dallas, Texas			
Designed - GF	Drawn - GF	Date - DECEMBER, 1983	Job No. - J - 177
Approved - HWG	Checked - HBJ	Scale - 1" = 20'	Sheet 13 of 22.



No.	Revision	By	Date

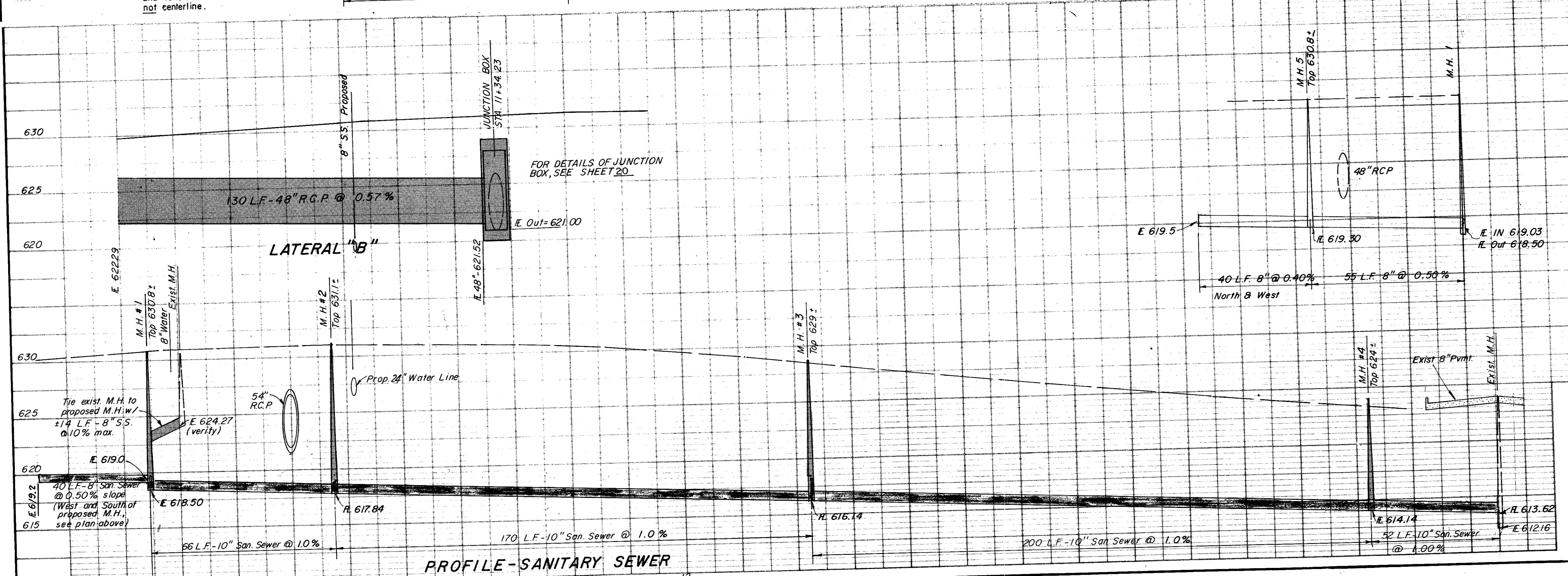
CITY OF ADDISON  
 DALLAS COUNTY, TEXAS  
**ARAPAHO RD. / QUORUM DR. IMPROVEMENTS**  
**ARAPAHO ROAD - DRAINAGE**  
 Sta. 5+00 to Sta. 10+00  
**GINN, INC.**  
 Consulting Engineers Dallas, Texas

Designed - GF Drawn - GF Date - DECEMBER, 1983 Job No. - J-177  
 Approved - HWG Checked - HBJ Scale - 1" = 20' Sheet 14 of 22



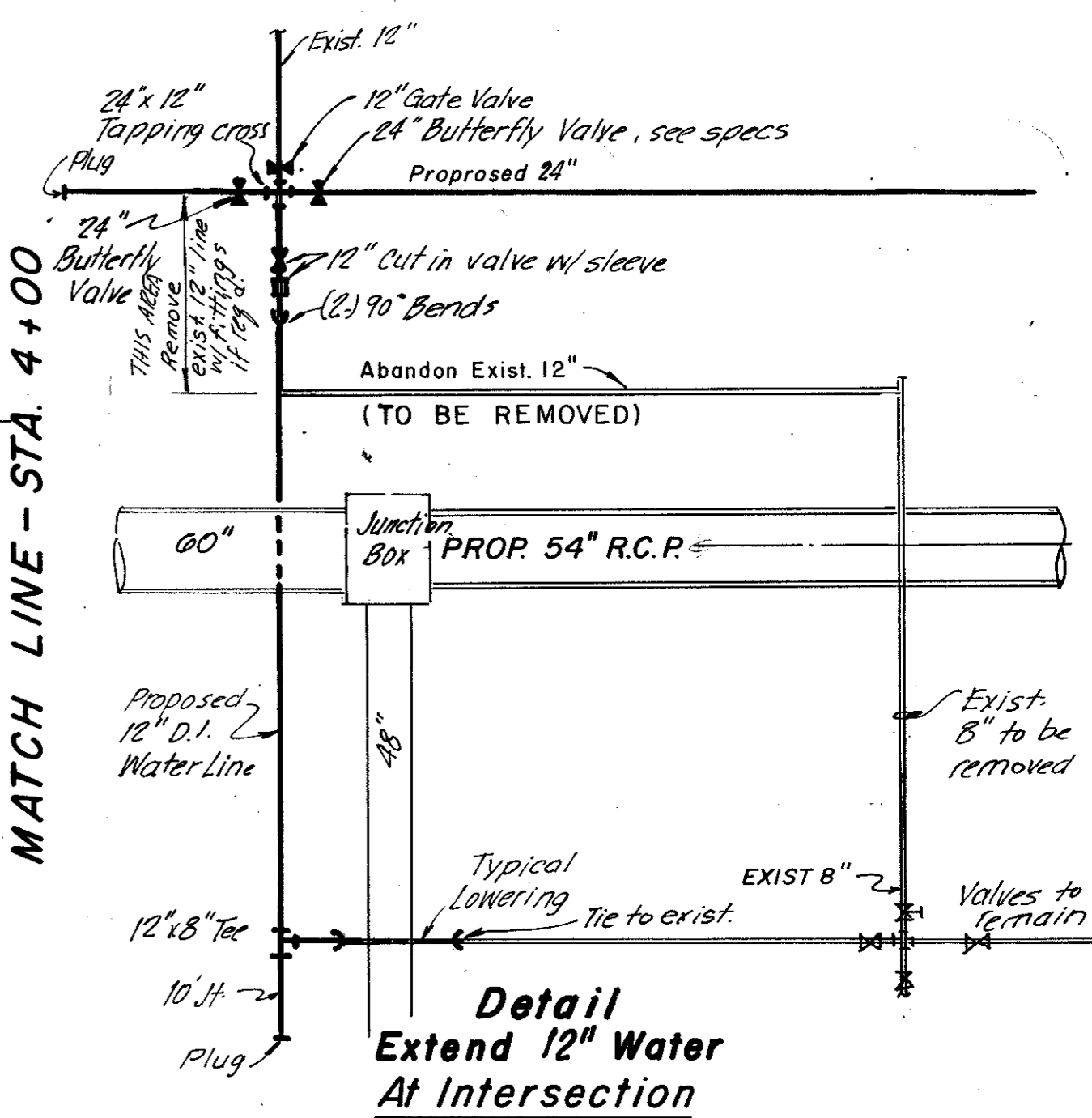
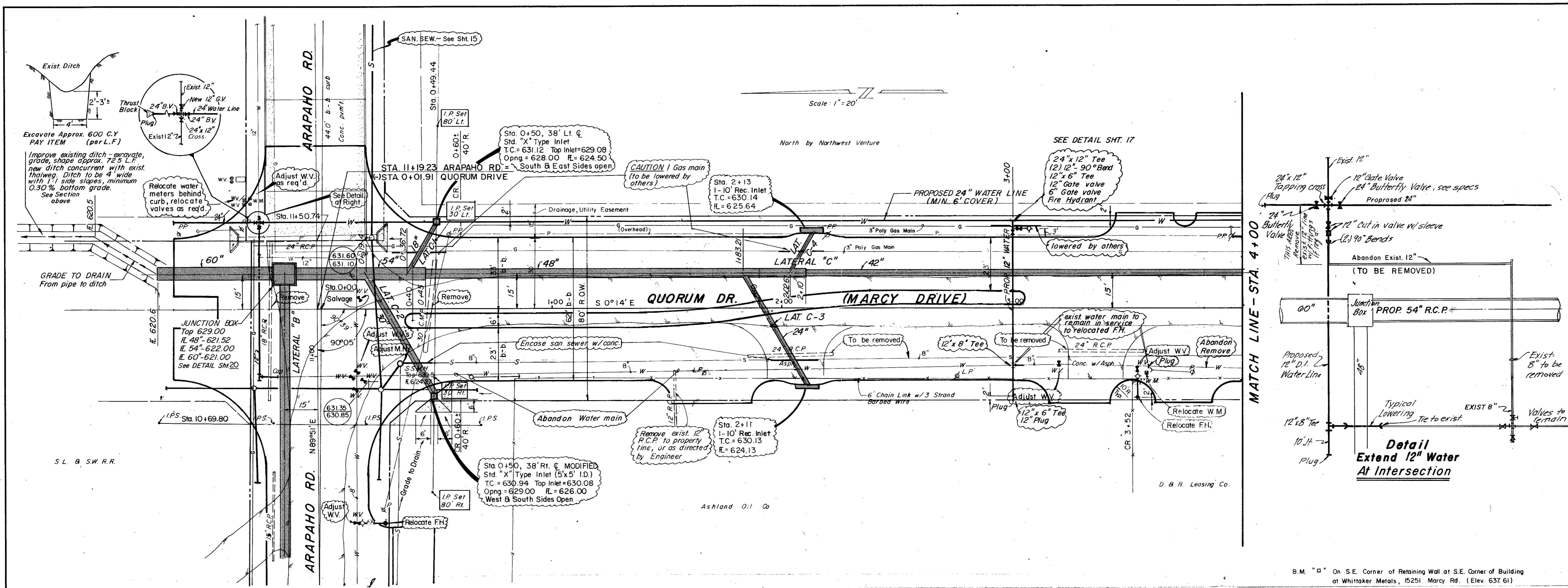
NOTE 1: I.P. Set at Sta. 10+69.80 (Right and left) are set from survey base line, not centerline.

B.M. "O" On S.E. Corner of Concrete Walk at Front Entrance to 4805 Arapaho Rd (Elev. 630.66)

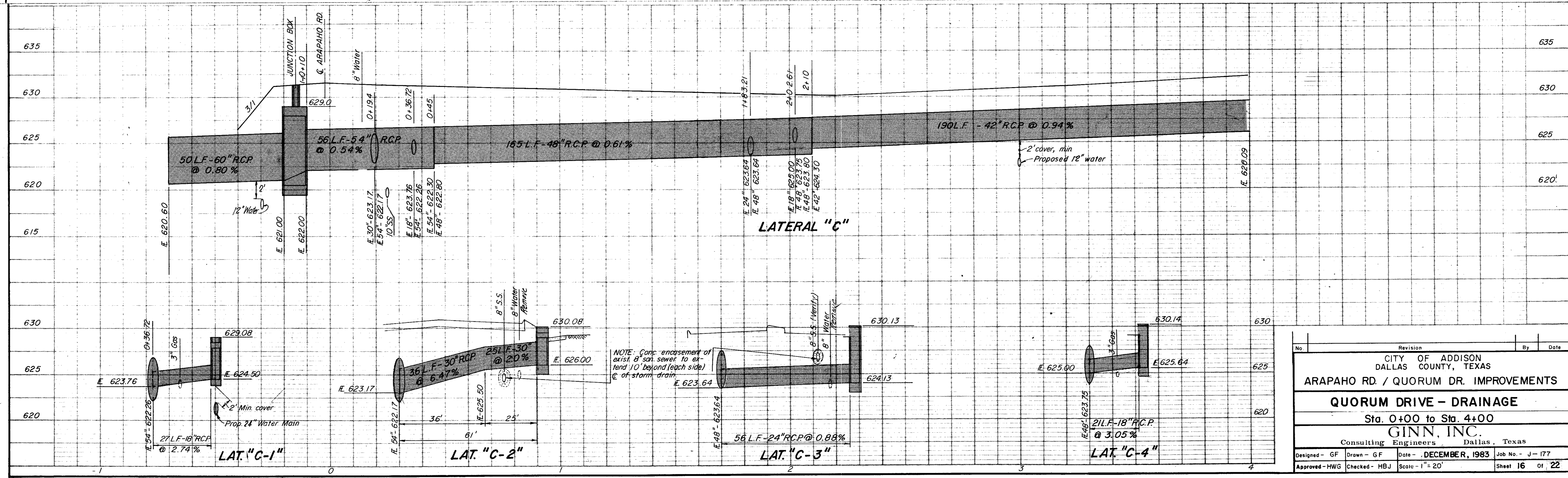


Revision		By	Date
CITY OF ADDISON DALLAS COUNTY, TEXAS			
<b>ARAPAHO RD. / QUORUM DR. IMPROVEMENTS</b>			
<b>ARAPAHO ROAD - DRAINAGE</b>			
Sta. 10+00 to Sta. 11+90.24			
<b>GINN, INC.</b>			
Consulting Engineers Dallas, Texas			
Designed - GF	Drawn - GF	Date - DECEMBER, 1983	Job No. - J-177
Approved - HWG	Checked - HBJ	Scale - 1" = 20'	Sheet 15 of 22

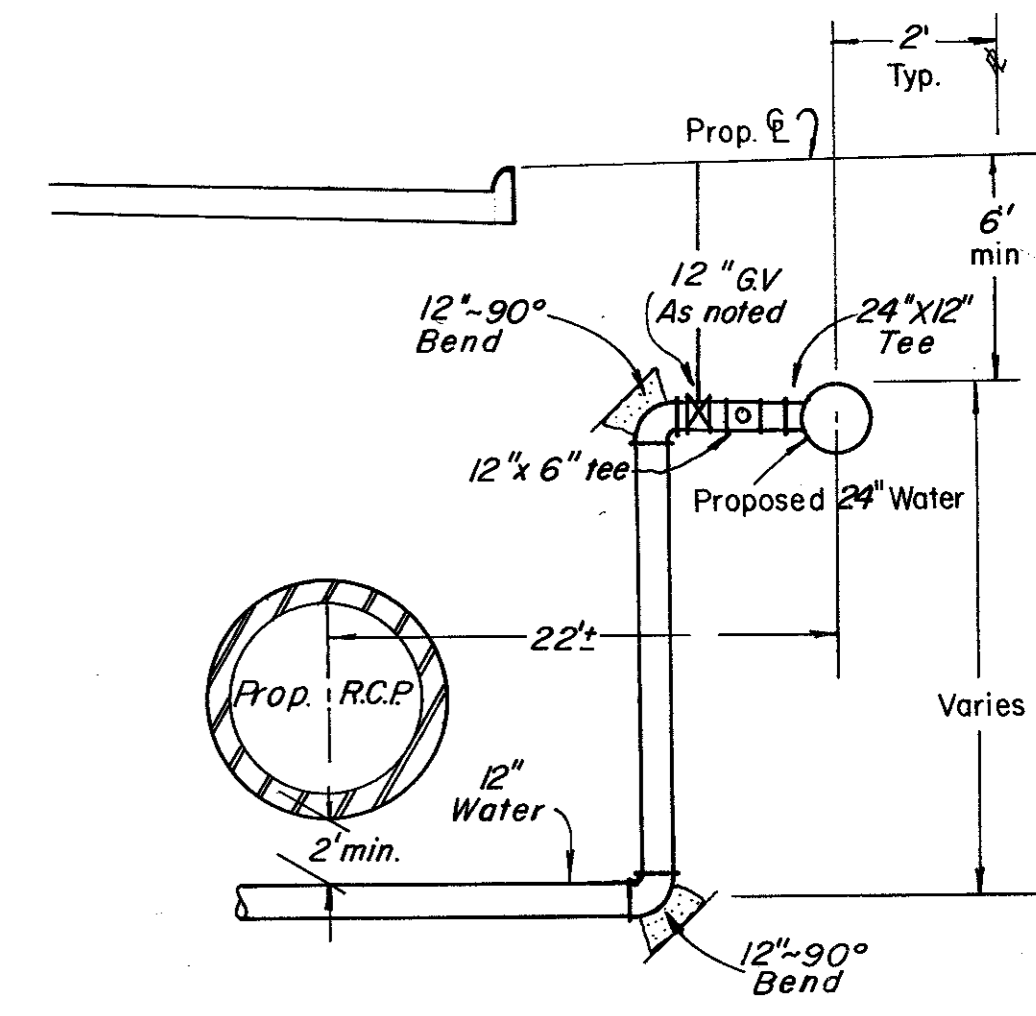
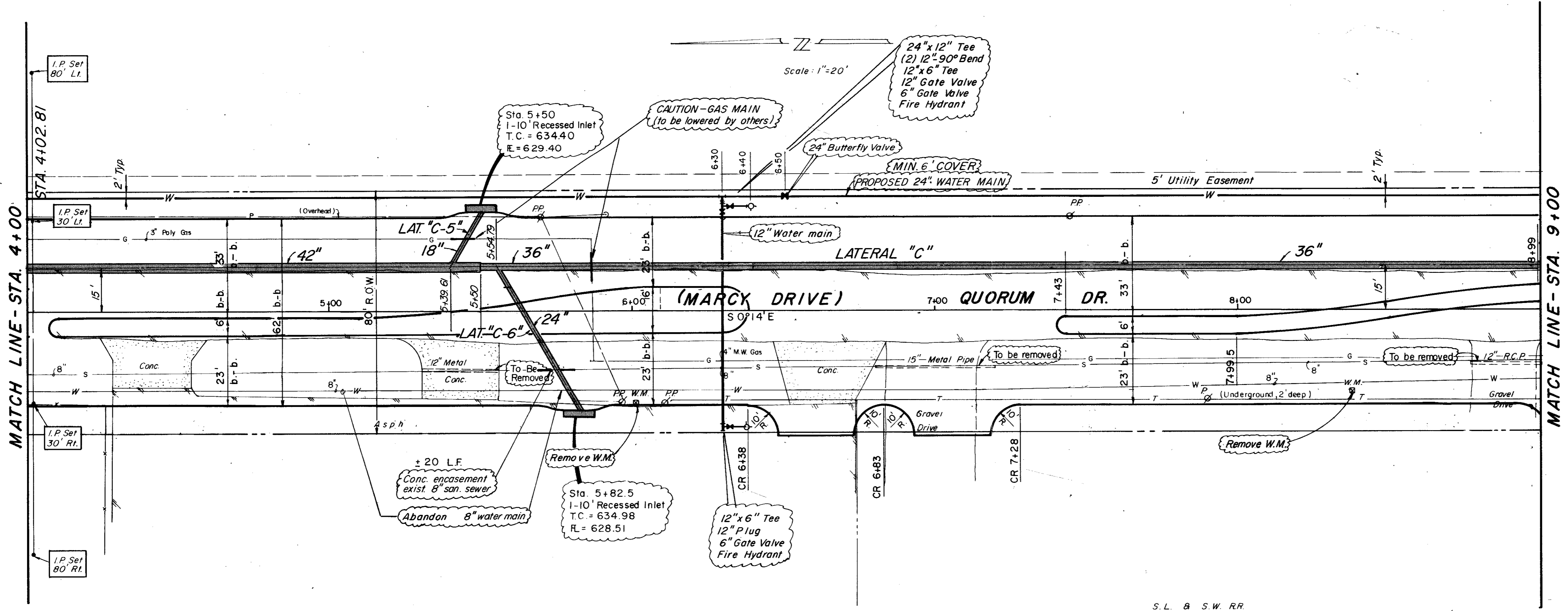




B.M. "□" On S.E. Corner of Retaining Wall at S.E. Corner of Building at Whittaker Metals, 15251 Marcy Rd. (Elev. 637.61)

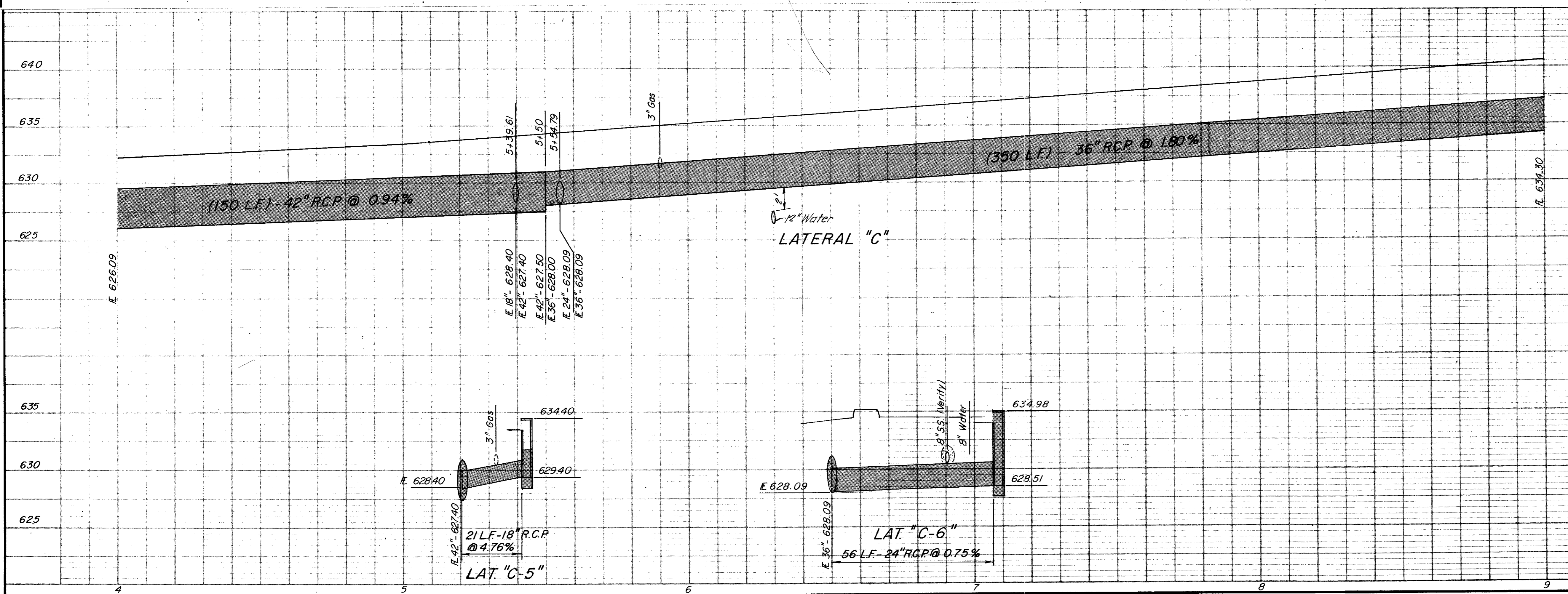


No.	Revision	By	Date
CITY OF ADDISON DALLAS COUNTY, TEXAS <b>ARAPAHO RD / QUORUM DR. IMPROVEMENTS</b> <b>QUORUM DRIVE - DRAINAGE</b> Sta. 0+00 to Sta. 4+00 <b>GINN, INC.</b> Consulting Engineers, Dallas, Texas			
Designed - GF	Drawn - GF	Date - DECEMBER, 1983	Job No. - J-177
Approved - HWG	Checked - HBJ	Scale - 1" = 20'	Sheet 16 of 22



Detail  
12" Water Crossing

B.M. "□" On S.E. Corner of Retaining Wall at S.E. Corner of Building of Whittaker Metals. 15251 Marcy Rd. (Elev. 637.61)



No.	Revision	By	Date
	CITY OF ADDISON DALLAS COUNTY, TEXAS ARAPAHO RD. / QUORUM DR. IMPROVEMENTS		
	QUORUM DRIVE - DRAINAGE Sta. 4+00 to Sta. 9+00		
	GINN, INC. Consulting Engineers Dallas, Texas		
Designed - GF	Drawn - GF	Date - DECEMBER, 1983	Job No. - J-177
Approved - HWG	Checked - HBJ	Scale - 1" = 20'	Sheet 17 of 22

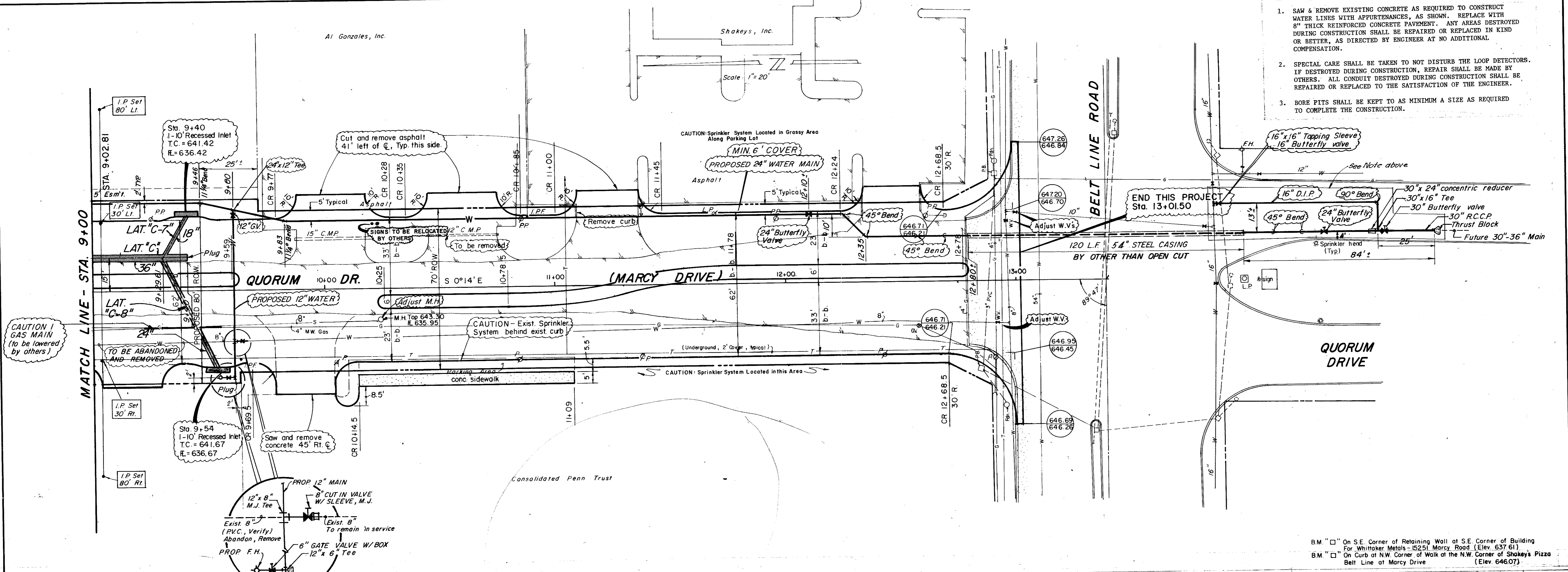
Al Gonzales, Inc.

Shakeys, Inc.

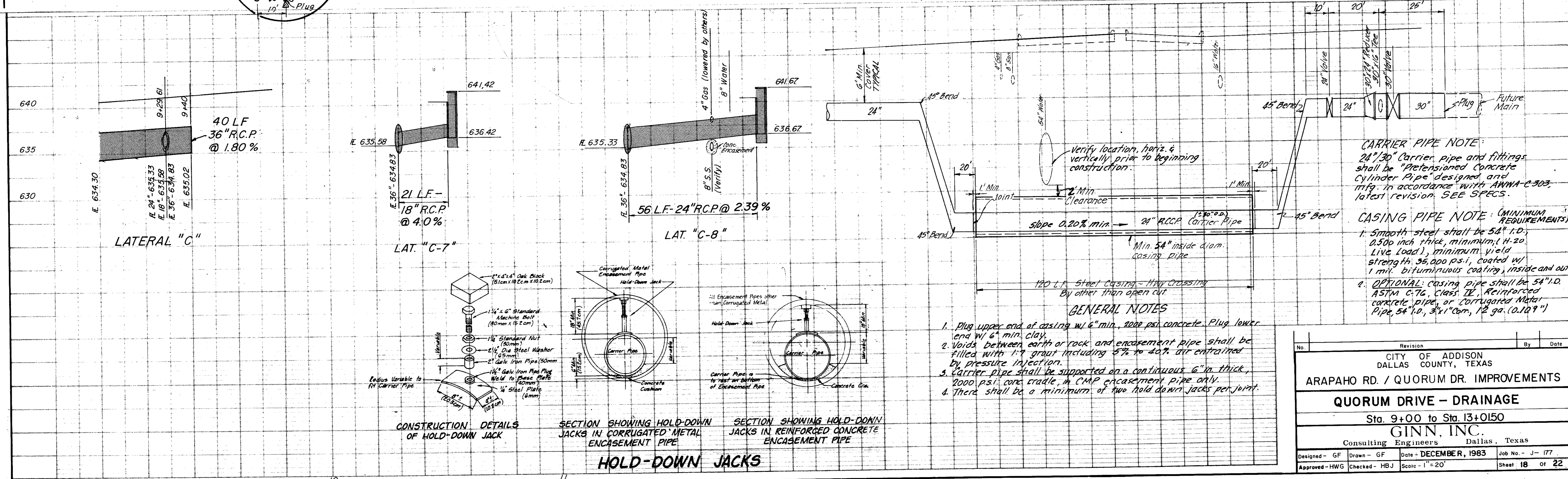
Scale 1" = 20'

NOTES:

1. SAW & REMOVE EXISTING CONCRETE AS REQUIRED TO CONSTRUCT WATER LINES WITH APPURTENANCES, AS SHOWN. REPLACE WITH 8" THICK REINFORCED CONCRETE PAVEMENT. ANY AREAS DESTROYED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED IN KIND OR BETTER, AS DIRECTED BY ENGINEER AT NO ADDITIONAL COMPENSATION.
2. SPECIAL CARE SHALL BE TAKEN TO NOT DISTURB THE LOOP DETECTORS. IF DESTROYED DURING CONSTRUCTION, REPAIR SHALL BE MADE BY OTHERS. ALL CONDUIT DESTROYED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER.
3. BORE PITS SHALL BE KEPT TO AS MINIMUM A SIZE AS REQUIRED TO COMPLETE THE CONSTRUCTION.



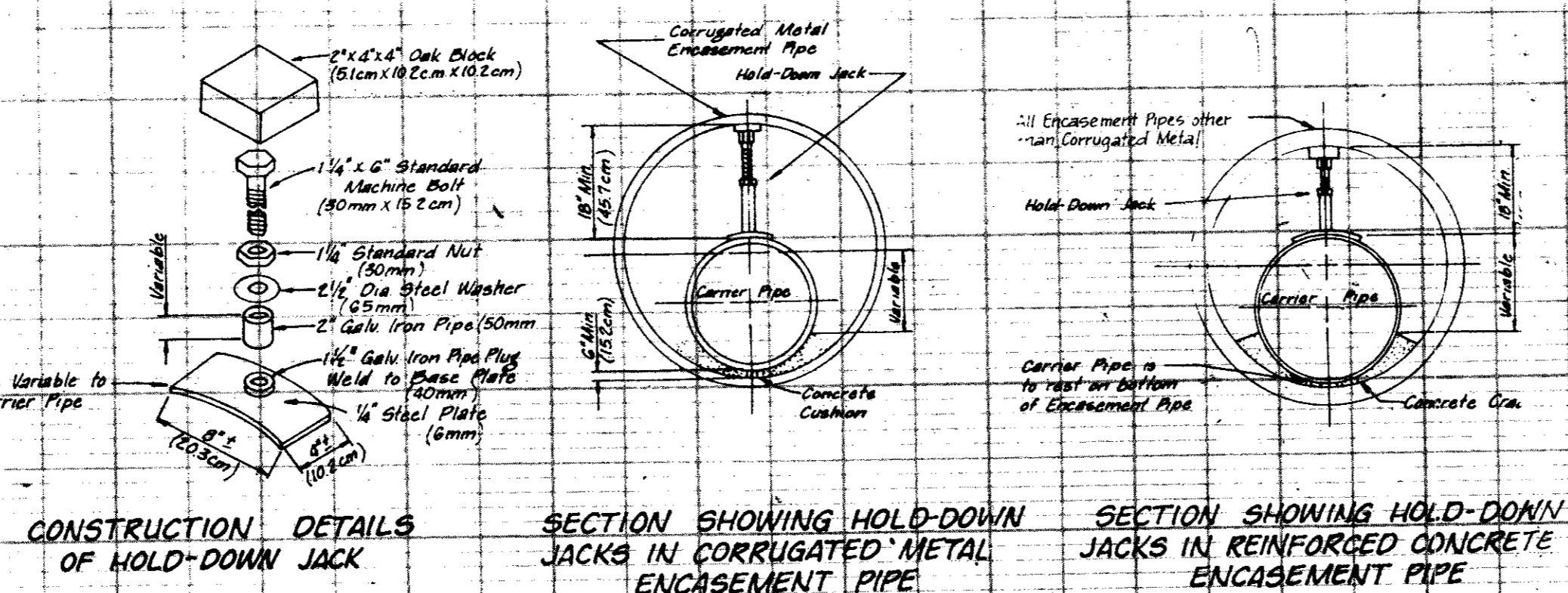
BM "□" On S.E. Corner of Retaining Wall at S.E. Corner of Building For Whitaker Metals - 5251 Marcy Road (Elev. 637.61)  
 BM "□" On Curb at N.W. Corner of Walk at the N.W. Corner of Shakeys' Pizza Belt Line at Marcy Drive (Elev. 646.07)



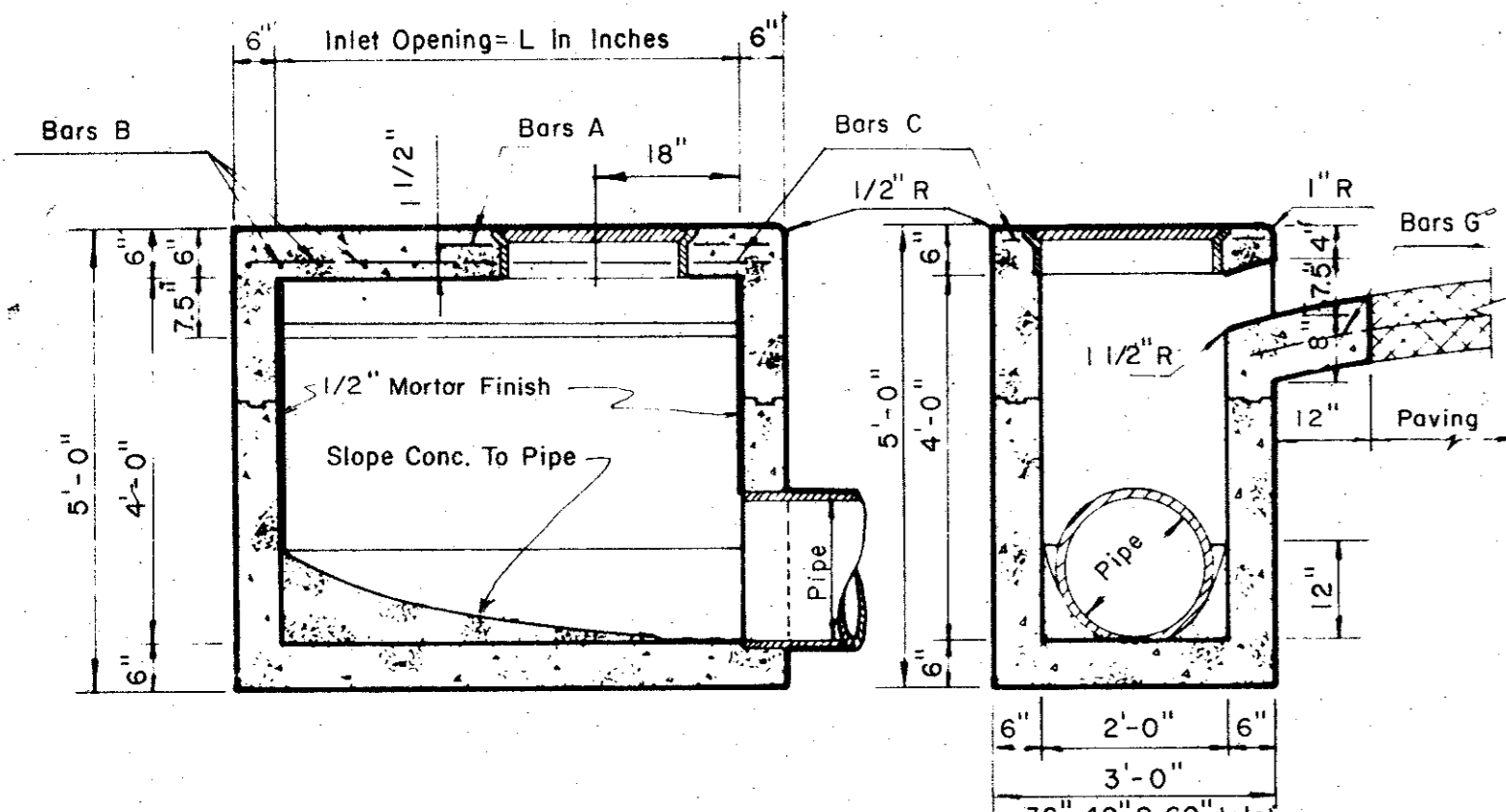
**CARRIER PIPE NOTE:**  
 24\"/>

**CASING PIPE NOTE: (MINIMUM REQUIREMENTS)**  
 1. Smooth steel shall be 54\"/>

- GENERAL NOTES**
1. Plug upper end of casing w/ 6\"/>

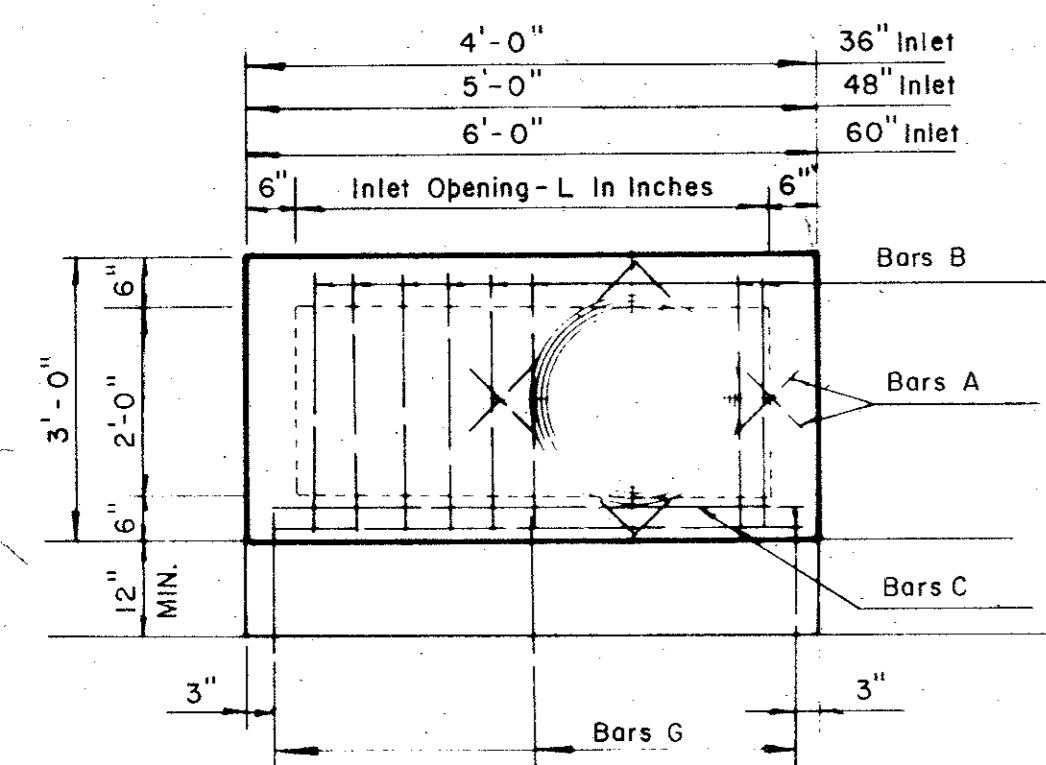


Revision	By	Date
CITY OF ADDISON DALLAS COUNTY, TEXAS		
<b>ARAPAHO RD. / QUORUM DR. IMPROVEMENTS</b>		
<b>QUORUM DRIVE - DRAINAGE</b>		
Sta. 9+00 to Sta. 13+0150		
<b>GINN, INC.</b>		
Consulting Engineers Dallas, Texas		
Designed - GF	Drawn - GF	Date - DECEMBER, 1983
Approved - HWG	Checked - HBJ	Scale - 1" = 20'
		Job No. - J-177
		Sheet 18 of 22

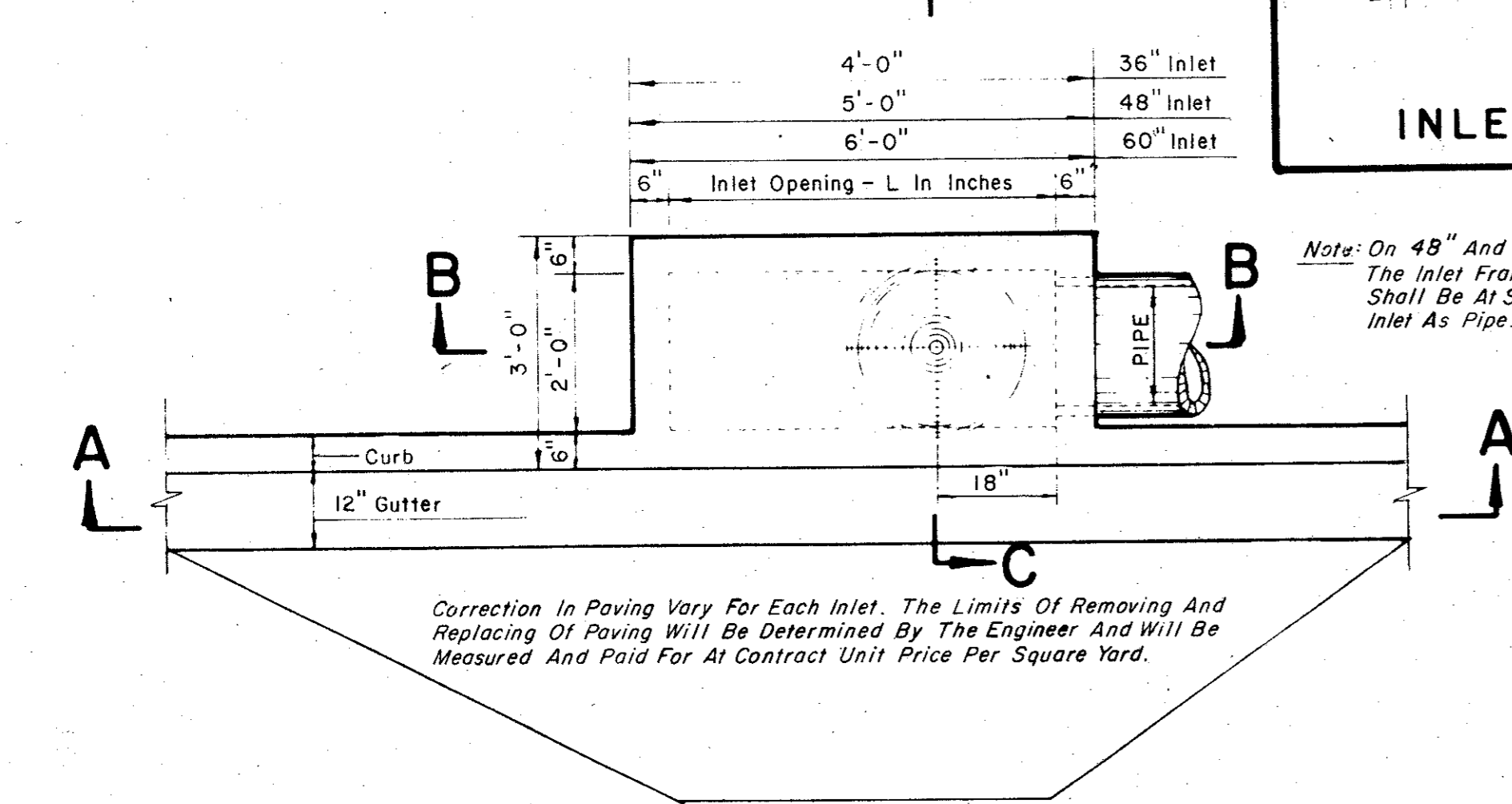


SECTION B-B

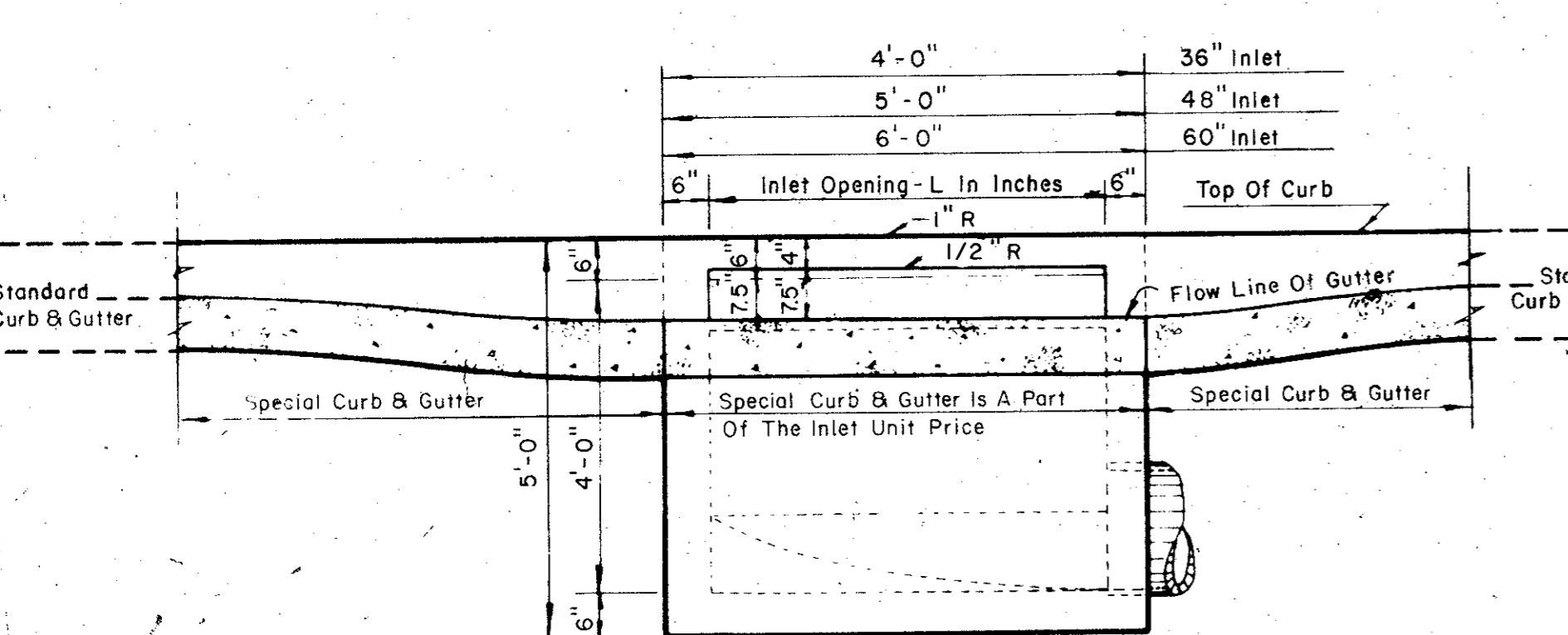
SECTION C-C



REINFORCING PLAN

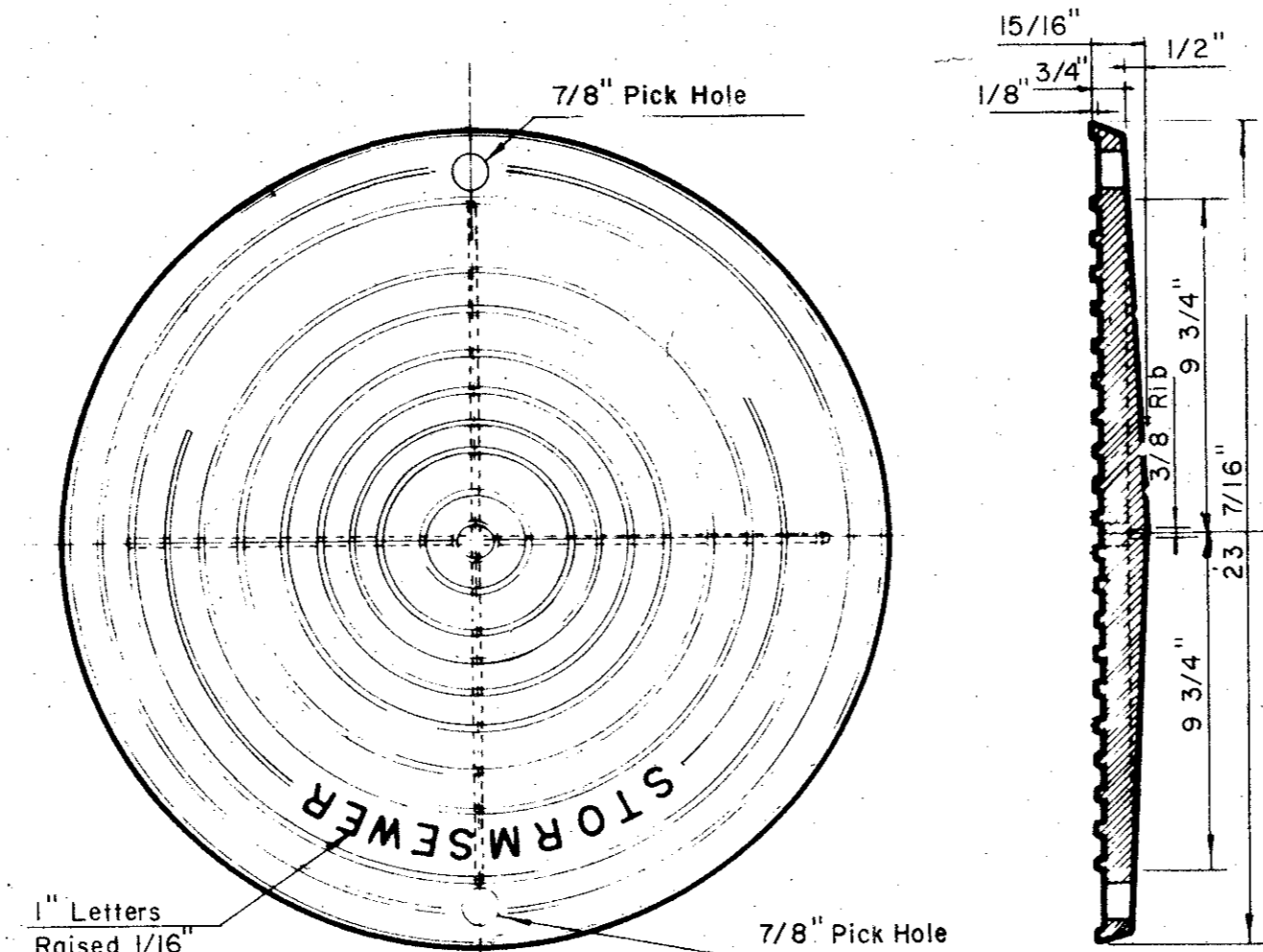


PLAN

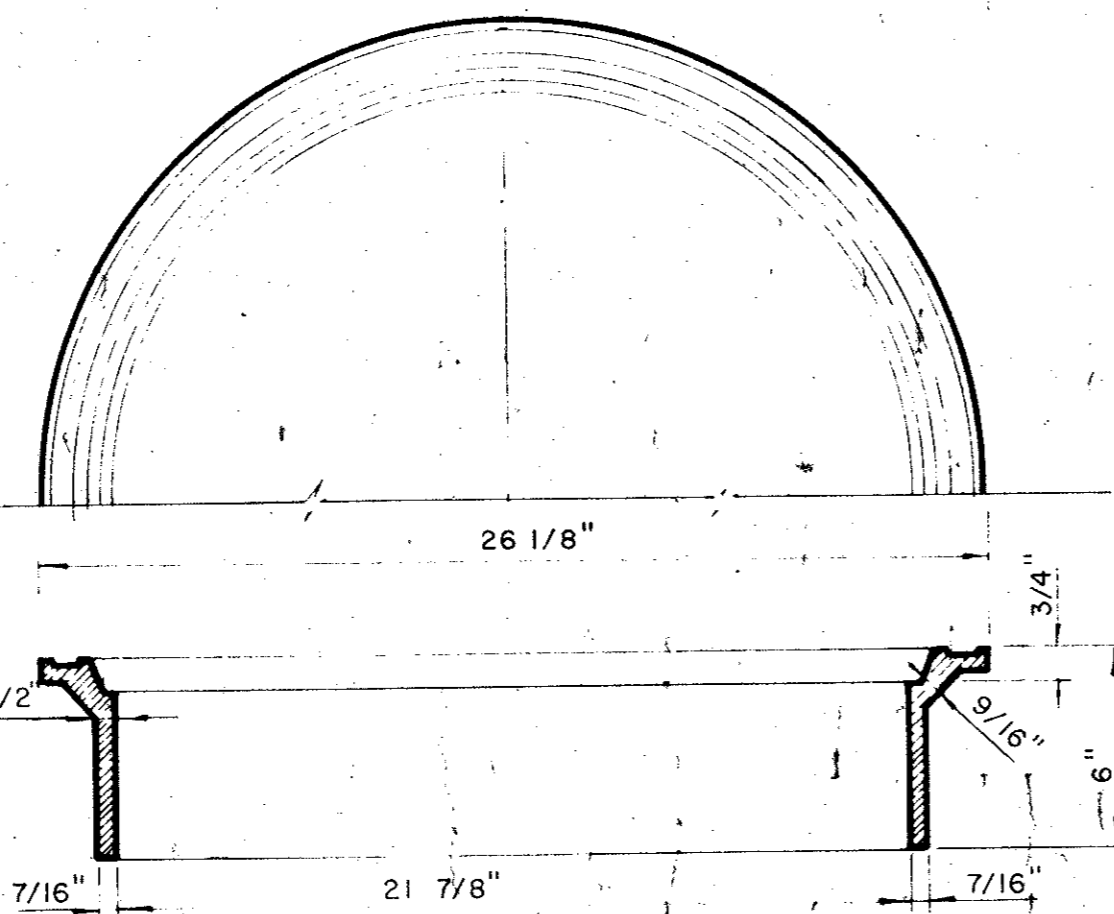


SECTION A-A

**36, 48 AND 60 INCH INLETS**



PLAN OF COVER



SECTION OF FRAME INLET FRAME AND COVER

Note: On 48" and 60" Inlets The Inlet Frame And Cover Shall Be At Same End Of Inlet As Pipe.

2'-6"	36" Inlet - #5-4 Required
2'-6"	48" Inlet - #5-4 Required
2'-6"	60" Inlet - #5-4 Required

2'-9"	36" Inlet - #5-4 Required
2'-9"	48" Inlet - #5-6 Required
2'-9"	60" Inlet - #5-8 Required

3'-9"	36" Inlet - #5-2 Required
4'-8"	48" Inlet - #5-2 Required
5'-9"	60" Inlet - #5-2 Required

3'-0"	36", 48" & 60" Inlets	#3-3 Required
-------	-----------------------	---------------

3'-0"	36", 48" & 60" Inlets	#3-3 Required
-------	-----------------------	---------------

3'-0"	36", 48" & 60" Inlets	#3-3 Required
-------	-----------------------	---------------

3'-0"	36", 48" & 60" Inlets	#3-3 Required
-------	-----------------------	---------------

3'-0"	36", 48" & 60" Inlets	#3-3 Required
-------	-----------------------	---------------

3'-0"	36", 48" & 60" Inlets	#3-3 Required
-------	-----------------------	---------------

3'-0"	36", 48" & 60" Inlets	#3-3 Required
-------	-----------------------	---------------

3'-0"	36", 48" & 60" Inlets	#3-3 Required
-------	-----------------------	---------------

3'-0"	36", 48" & 60" Inlets	#3-3 Required
-------	-----------------------	---------------

3'-0"	36", 48" & 60" Inlets	#3-3 Required
-------	-----------------------	---------------

3'-0"	36", 48" & 60" Inlets	#3-3 Required
-------	-----------------------	---------------

3'-0"	36", 48" & 60" Inlets	#3-3 Required
-------	-----------------------	---------------

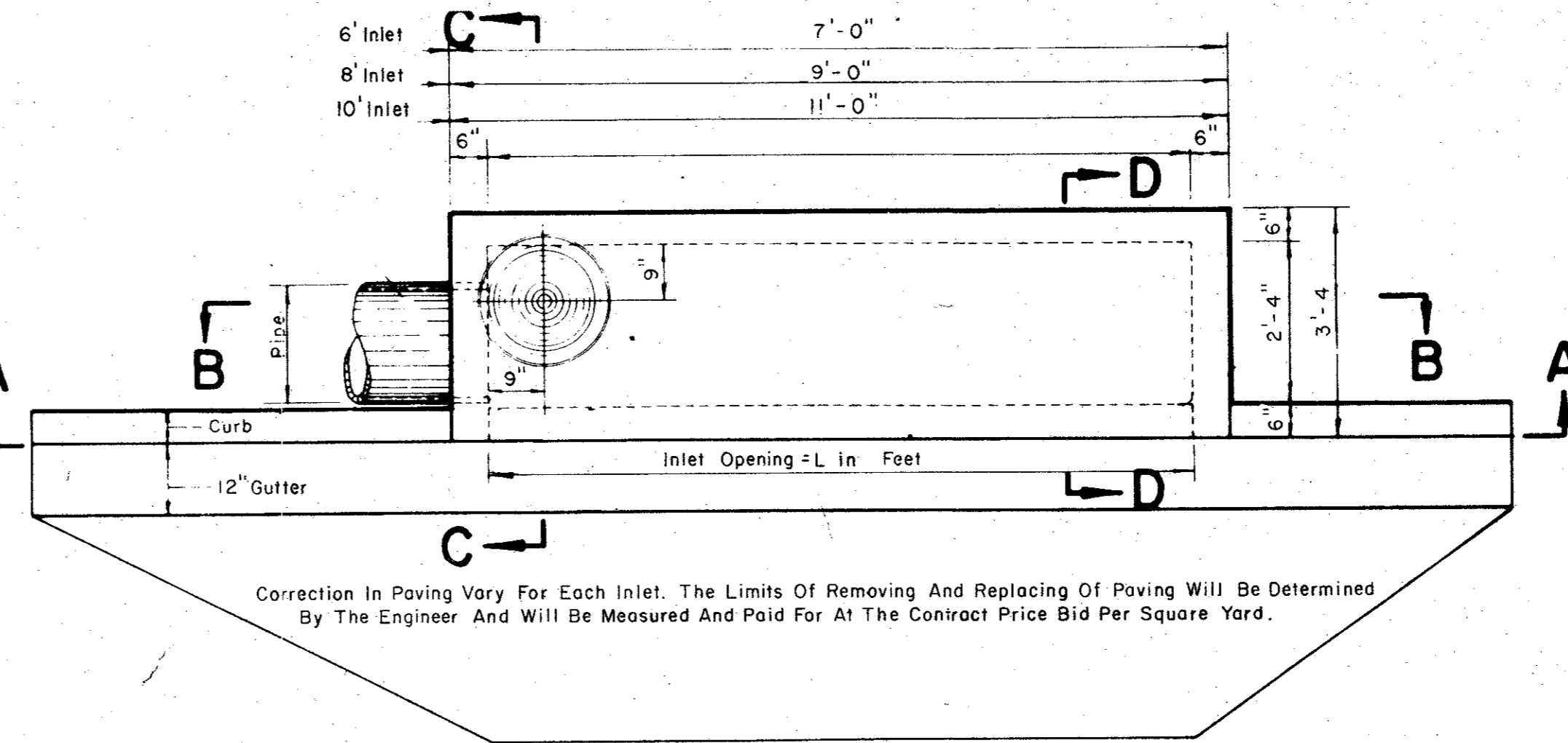
3'-0"	36", 48" & 60" Inlets	#3-3 Required
-------	-----------------------	---------------

3'-0"	36", 48" & 60" Inlets	#3-3 Required
-------	-----------------------	---------------

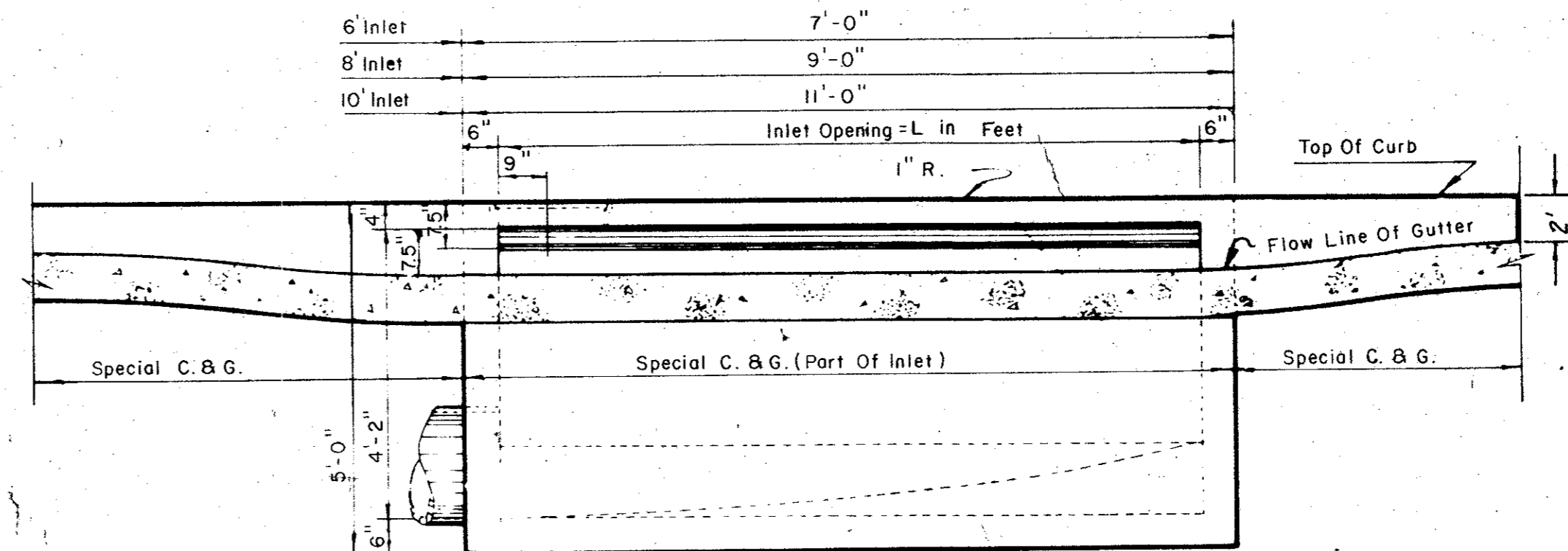
3'-0"	36", 48" & 60" Inlets	#3-3 Required
-------	-----------------------	---------------

**NOTES:**

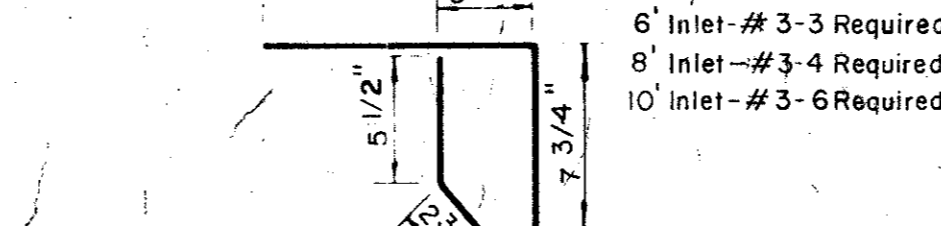
- Concrete Shall Have A Min. Compressive Of 3,000 P.S.I. At 28 Days.
- Lateral Pipe May Enter Inlet At Any Location. (Field Locate)
- The 12" Gutter In Front Of Inlet Is A Part Of The Inlet And Shall Be Built With The Inlet.
- Top Of Inlet Slope Shall Conform To Adjacent Parkway Normal 1/4" Ft. Slope.



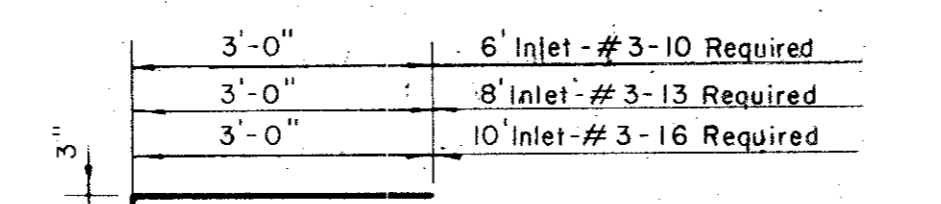
PLAN



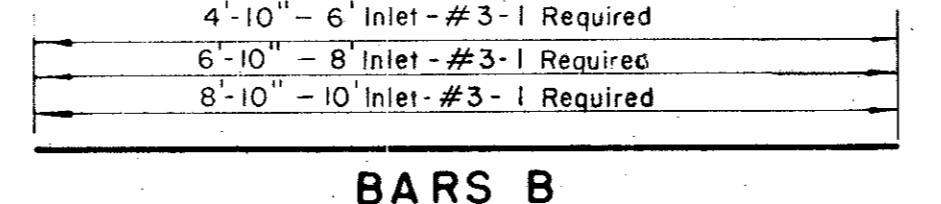
SECTION A-A



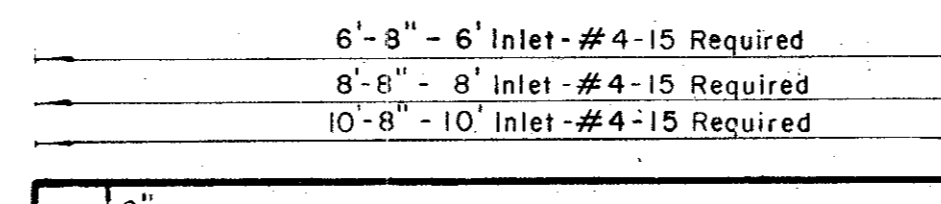
BARS H



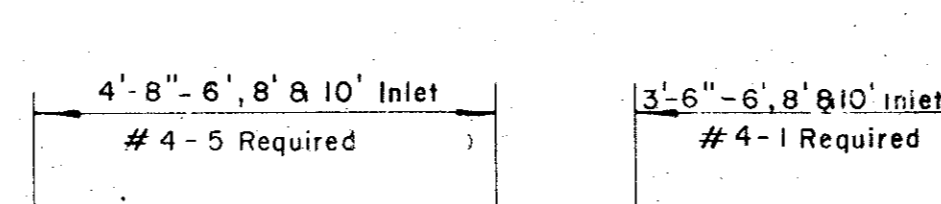
BARS A



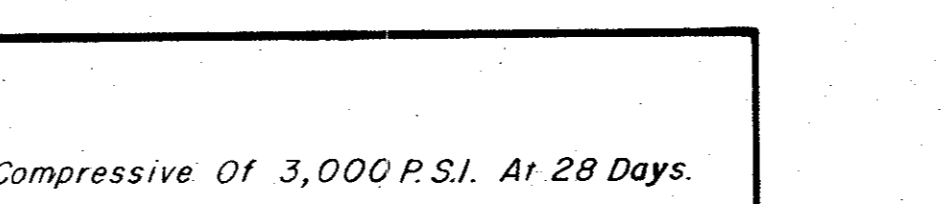
BARS B



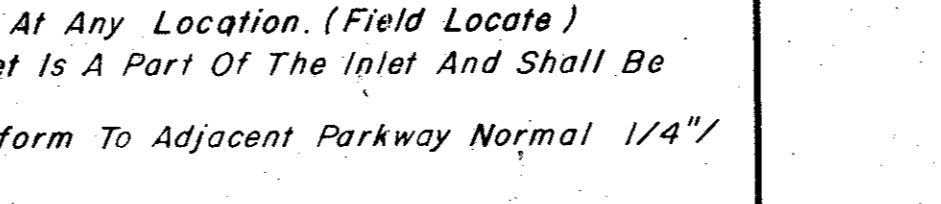
BARS C



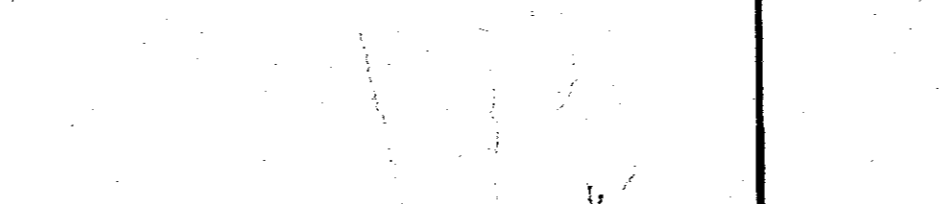
BARS D



BARS F



BARS G



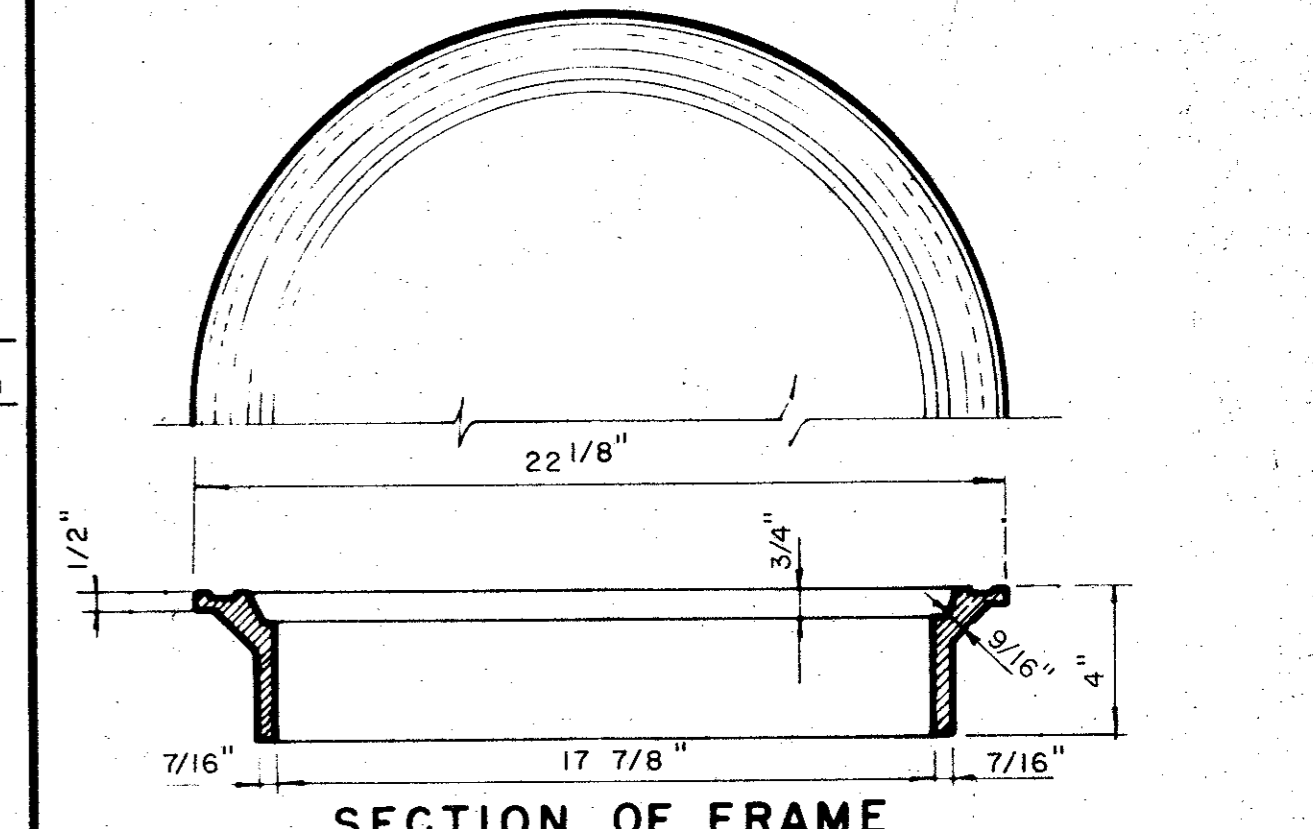
SECTION C-C



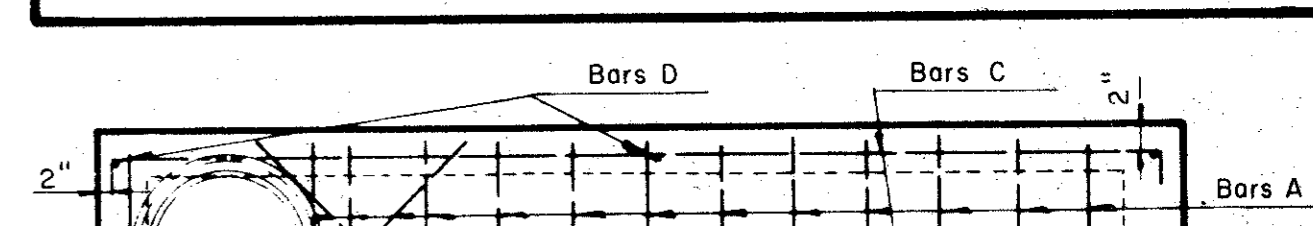
SECTION B-B



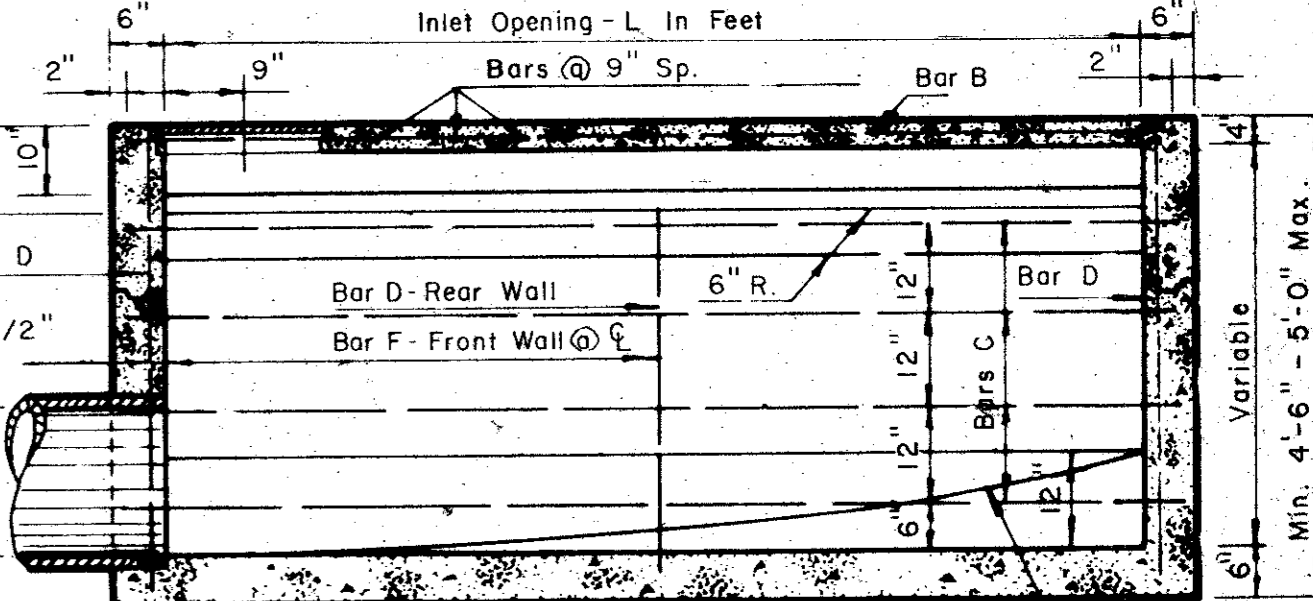
PLAN OF COVER



SECTION OF FRAME INLET FRAME AND COVER



REINFORCING PLAN



SECTION B-B

**6, 8 AND 10 FOOT INLETS**

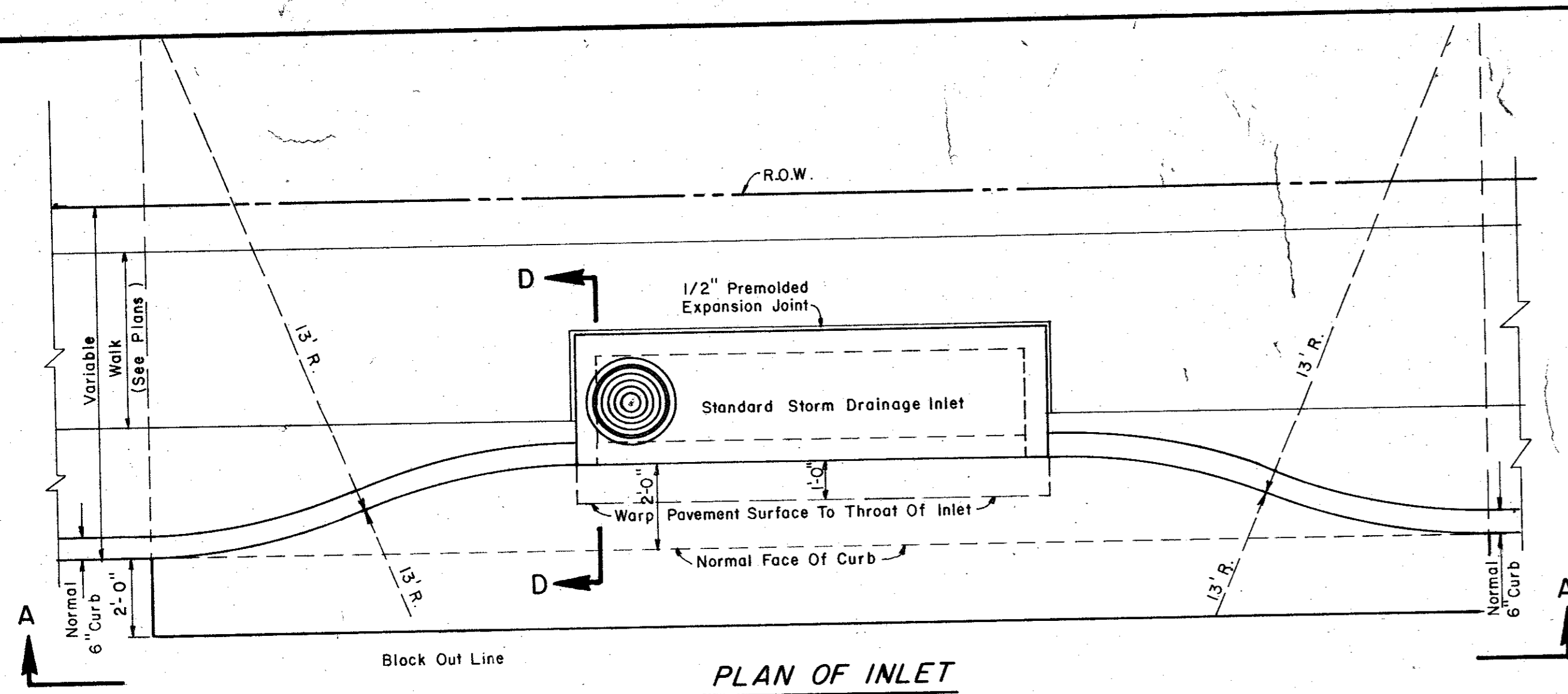
**STANDARD CURB INLET**  
36, 48 & 60 INCH INLET  
6, 8 & 10 FOOT INLET

CITY OF ADDISON  
DALLAS COUNTY, TEXAS  
ARAPAHO ROAD/QUORUM DRIVE

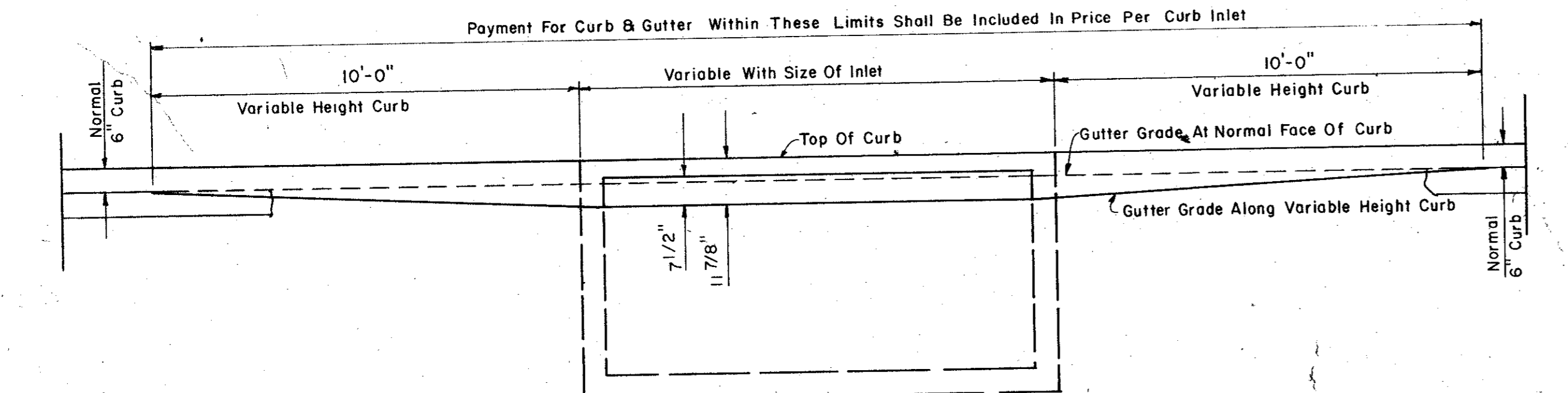
**DRAINAGE DETAILS A**

GINN, INC.  
Consulting Engineers - Dallas, Texas

DESIGNED: H.B.J. DRAWN: S.M.M. DATE: DECEMBER, 1965 SHEET: J 177  
APPROVED: H.W.G. CHECKED: G.F. SCALE: NONE

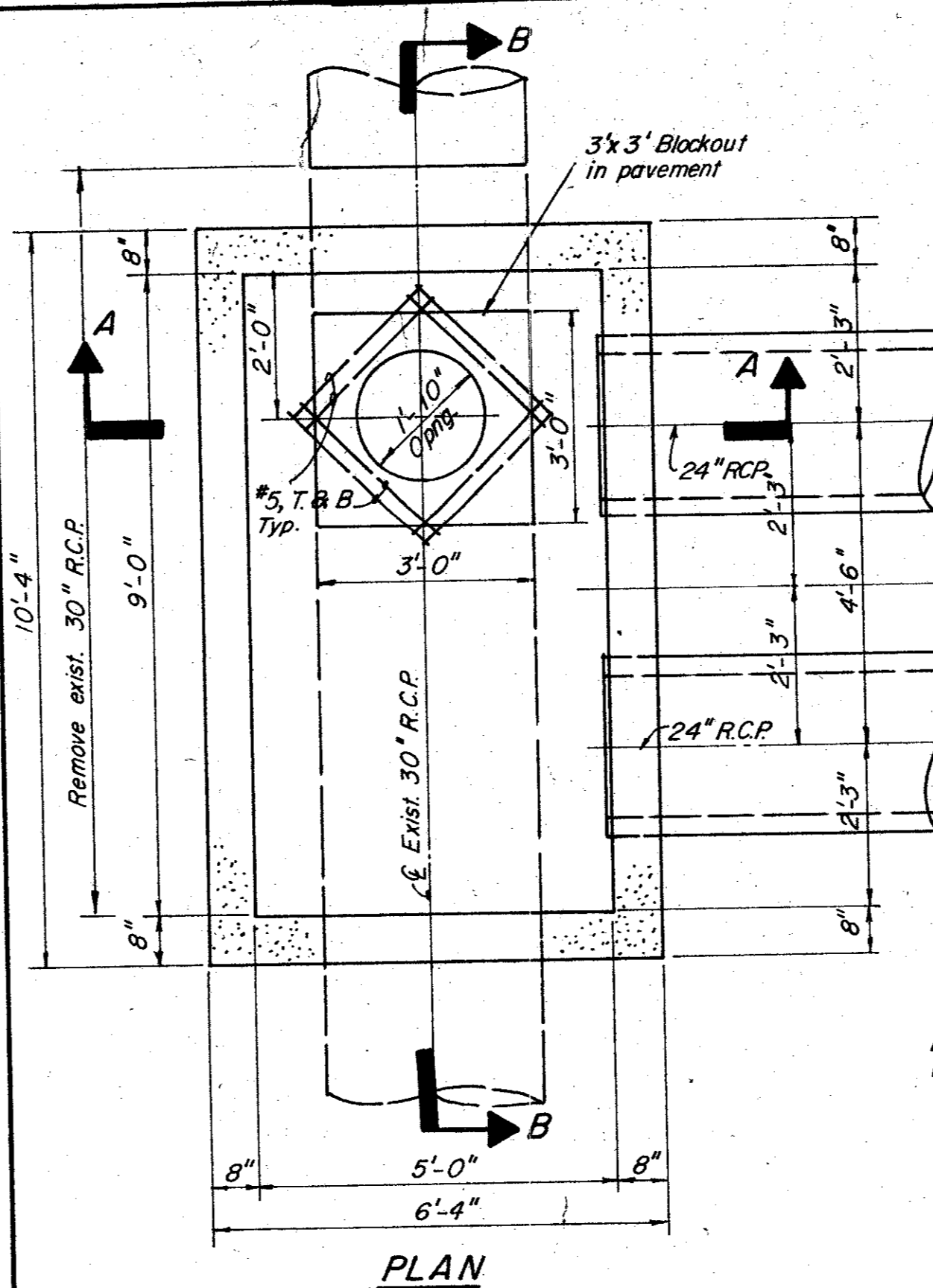


PLAN OF INLET

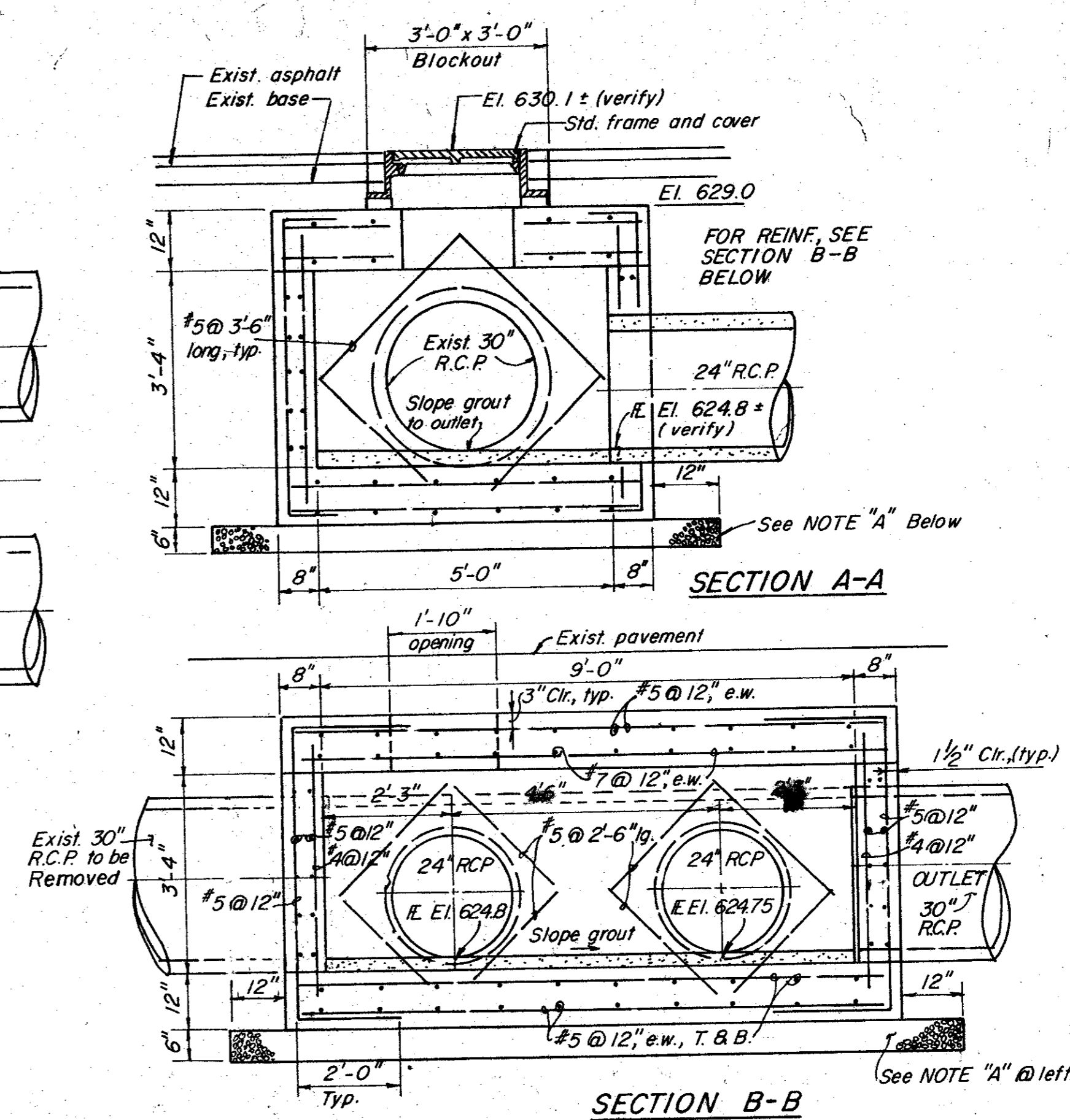


SECTION A-A  
RECESSED CURB INLET

NOTE:  
SEE STD. CURB INLET, DRAINAGE DETAILS FOR SECTION D-D, AND REINFORCING.

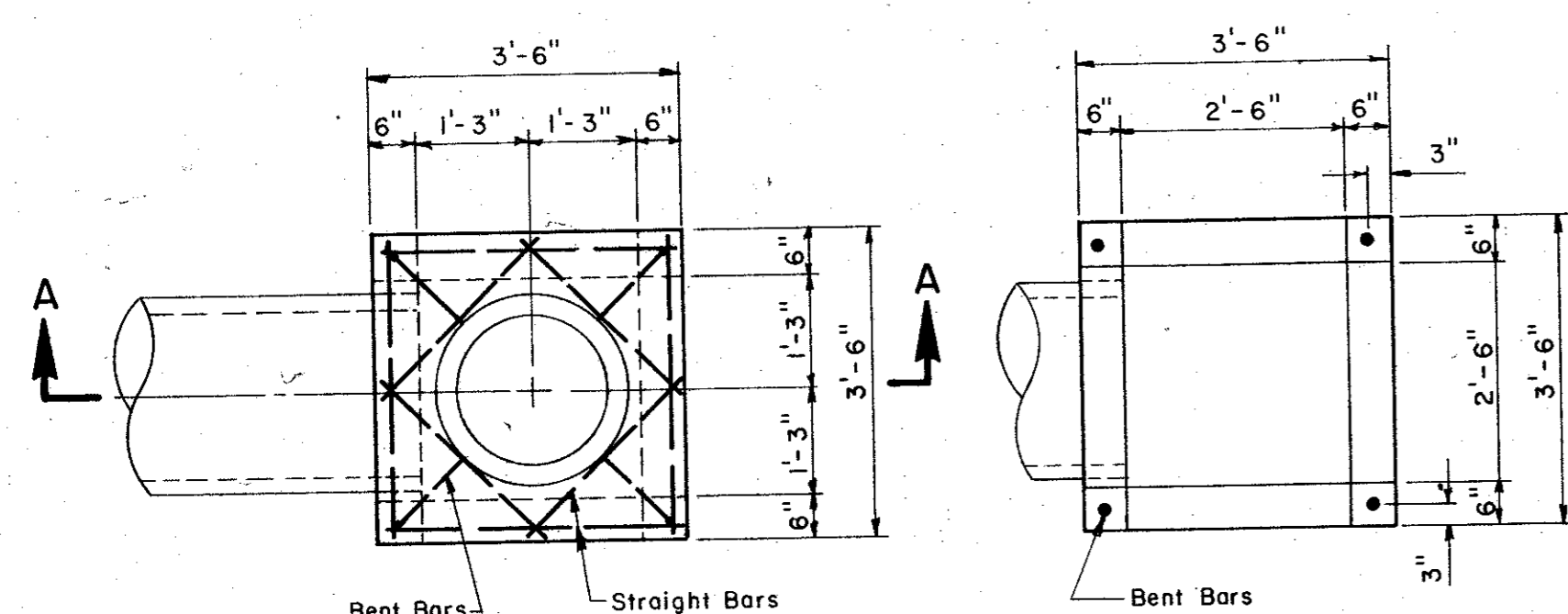


NOTE A:  
Overexcavate and backfill with 6" thick bedding material (crushed stone). NOT a separate pay item. Approx. 6.8 C.Y. Conc.



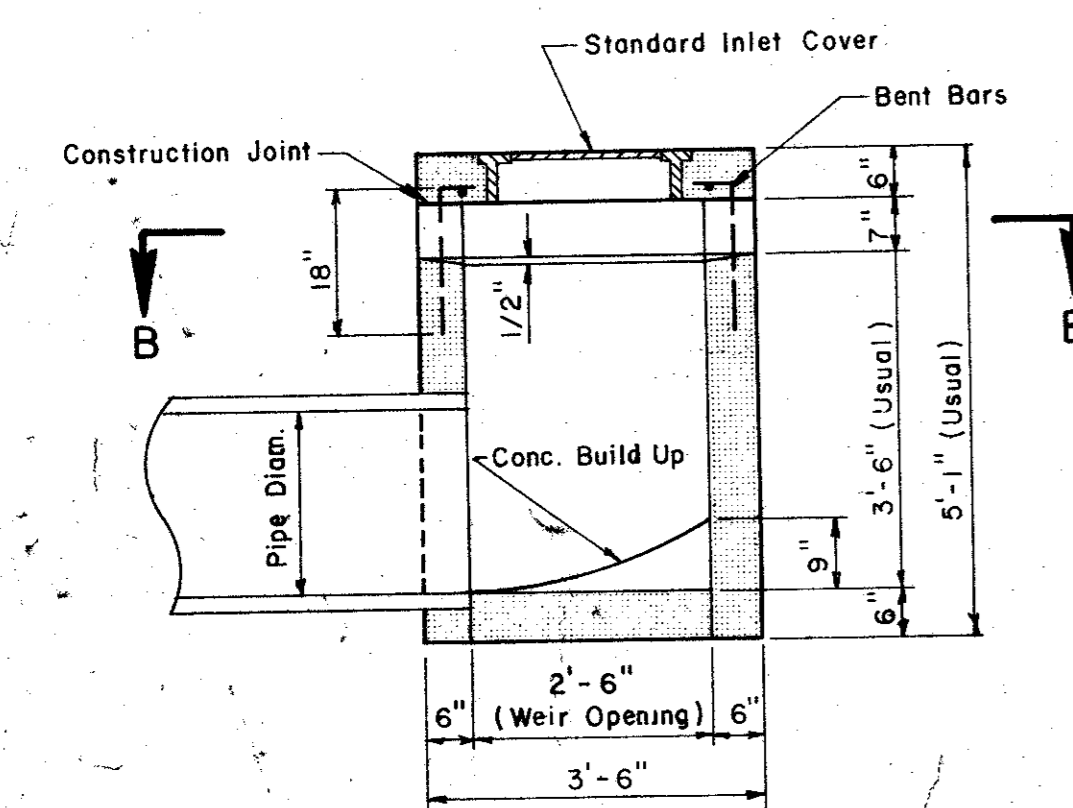
JUNCTION BOX AT ADDISON RD./ARAPAHO RD.  
SCALE: 1/2" = 1'-0"  
STA. 0+05

- GENERAL NOTES  
(Typ. All Junction Boxes)
- All concrete shall be Class A, 3000 PSI concrete.
  - Reinforcing shall conform to ASTM A-615, grade 40.
  - Provide all necessary reinforcing accessories to hold bars in proper position.
  - All reinforcing shall be detailed in accordance with ACI Standard 315.
  - Provide corner bars of the same size and number as horizontal bars at all corners.
  - Contractor shall submit shop drawings in accordance with ACI Standards, latest edition, for approval prior to any construction being done, showing all information as to exact location, size, number, bending, splicing and placing schedules and lists of reinforcement. No work shall commence on structures until approval of shop drawings is received.
  - All labor and materials for construction of junction boxes shall be included in the unit price bid for the structure. No additional compensation will be allowed.



PLAN

SECTION B-B

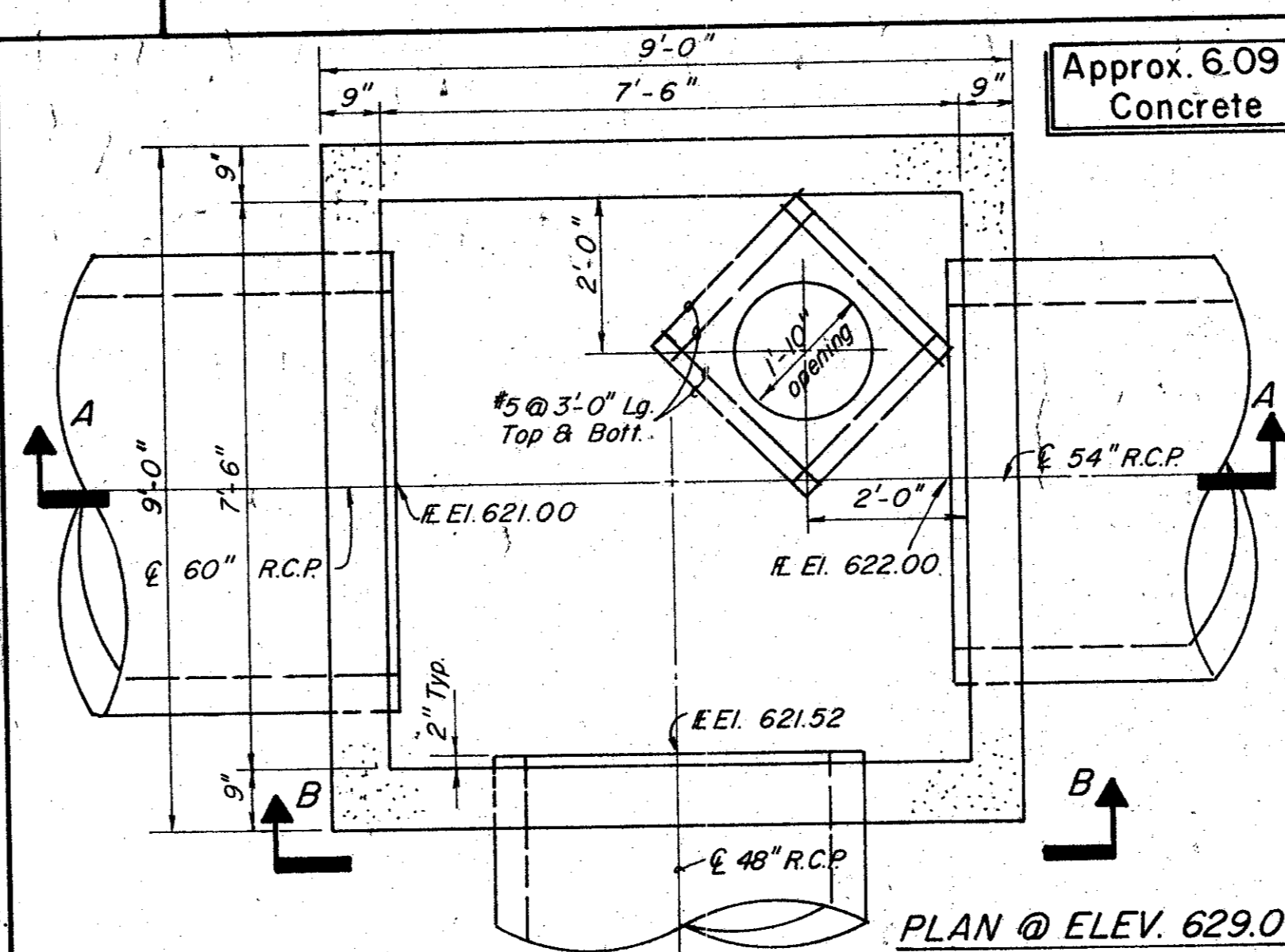


SECTION A-A

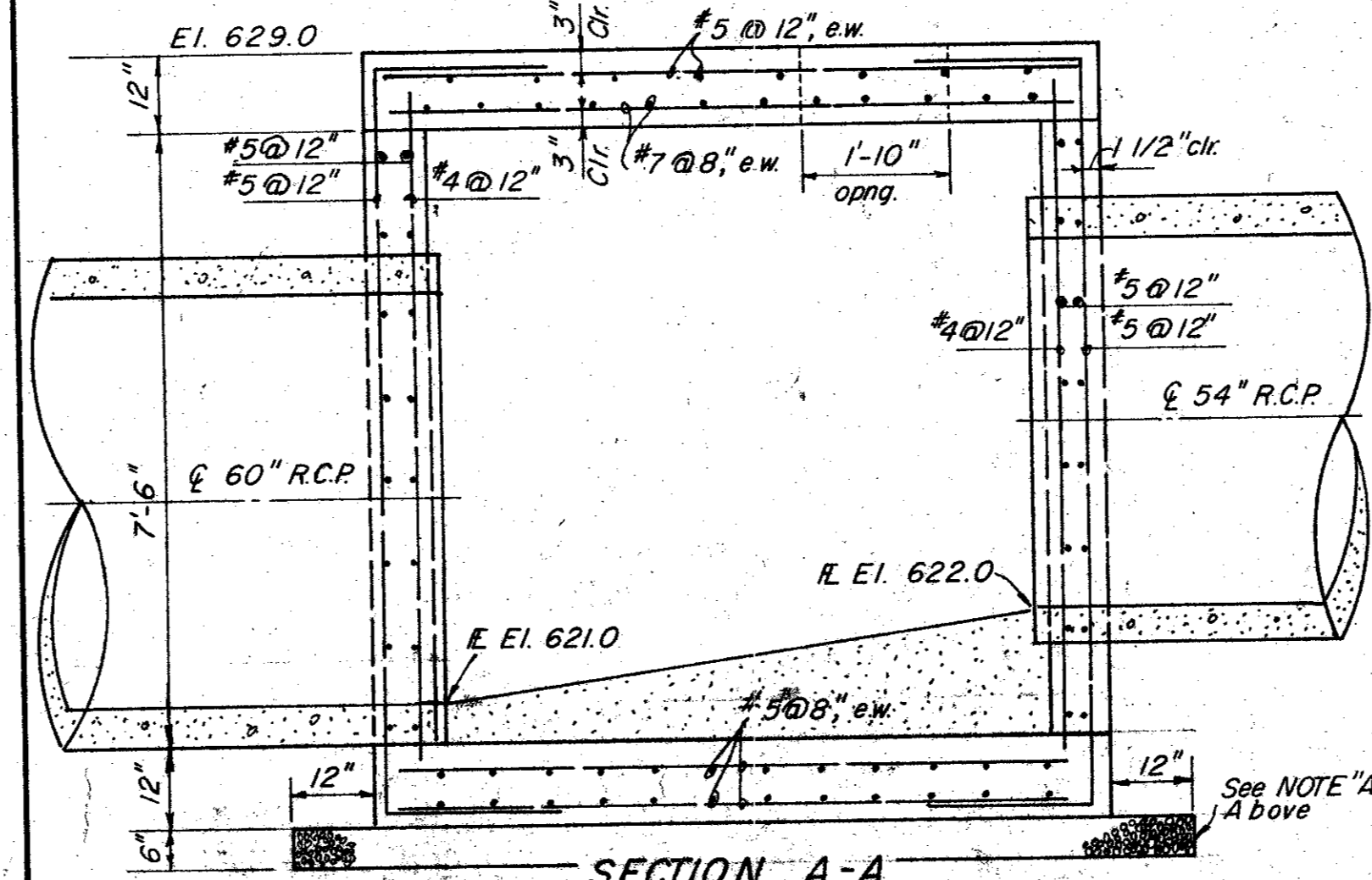
STANDARD TYPE "X" & "Y" INLET

- NOTE:
- ALL REINFORCING SHALL BE #5 BARS.
  - ALL CONC. SHALL BE 3000 P.S.I.
  - TYPE "X" INLET - WEIR OPENING ARE REQUIRED ON 4 SIDES.
  - TYPE "Y" INLET - WEIR OPENING ARE REQUIRED ON 3 SIDES.

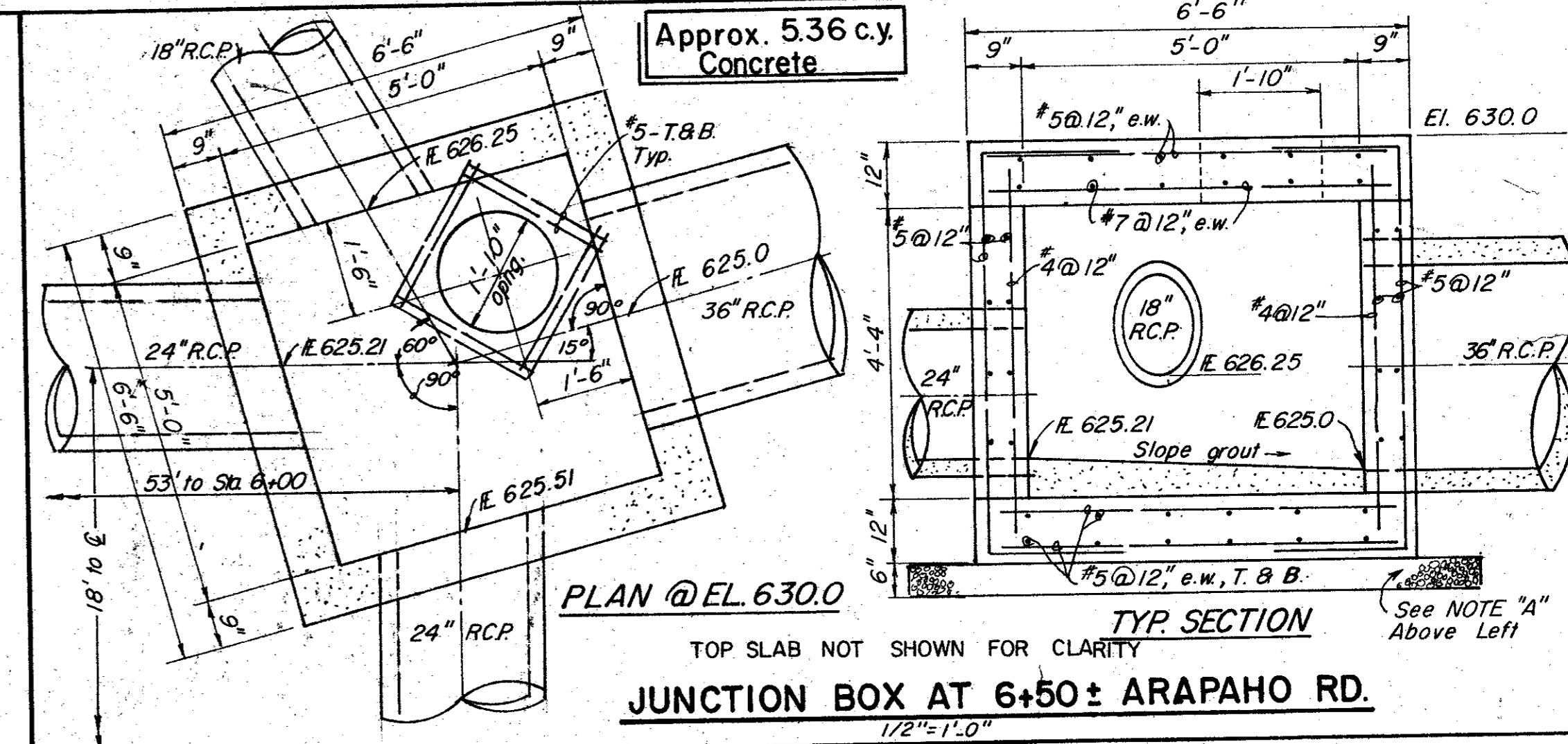
Where inlets are indicated to be modified, refer to plan/profile sheets for elevations or different sizes. All other items shall remain as shown on this standard detail.



PLAN @ ELEV. 629.0



SECTION A-A

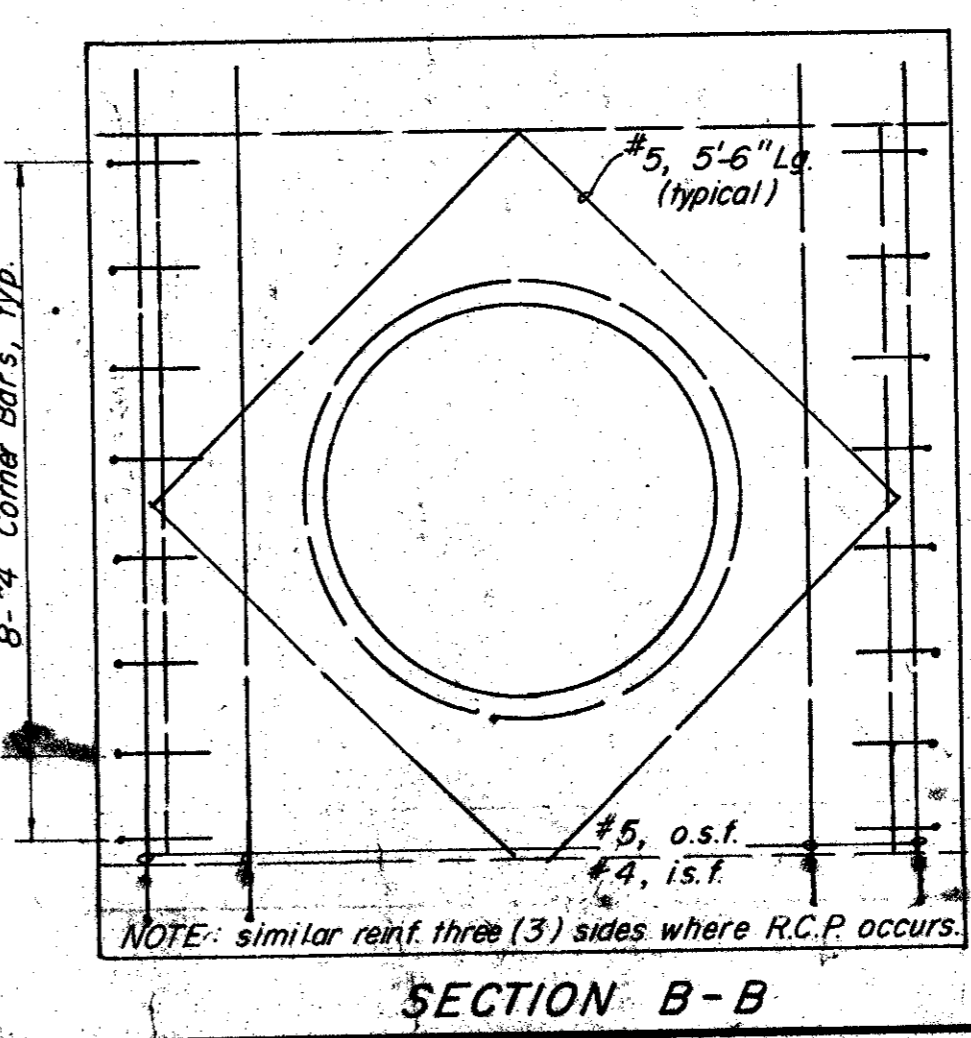


PLAN @ EL. 630.0

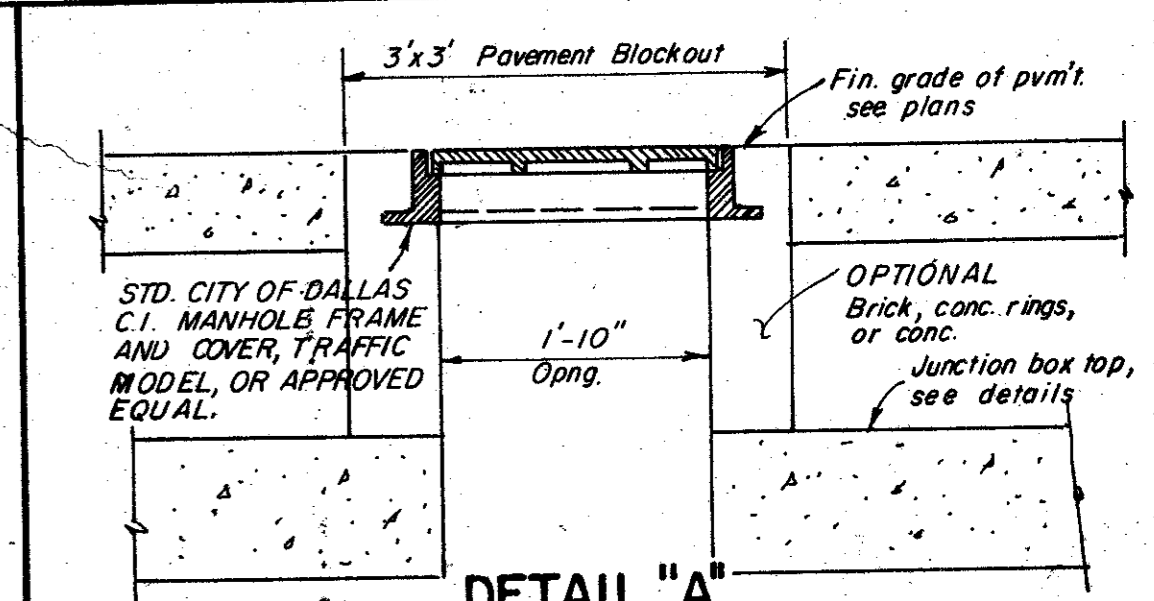
TYP. SECTION

JUNCTION BOX AT 6+50± ARAPAHO RD.  
1/2" = 1'-0"

JUNCTION BOX AT STA. 11+34.23  
1/2" = 1'-0"



SECTION B-B



DETAIL "A"

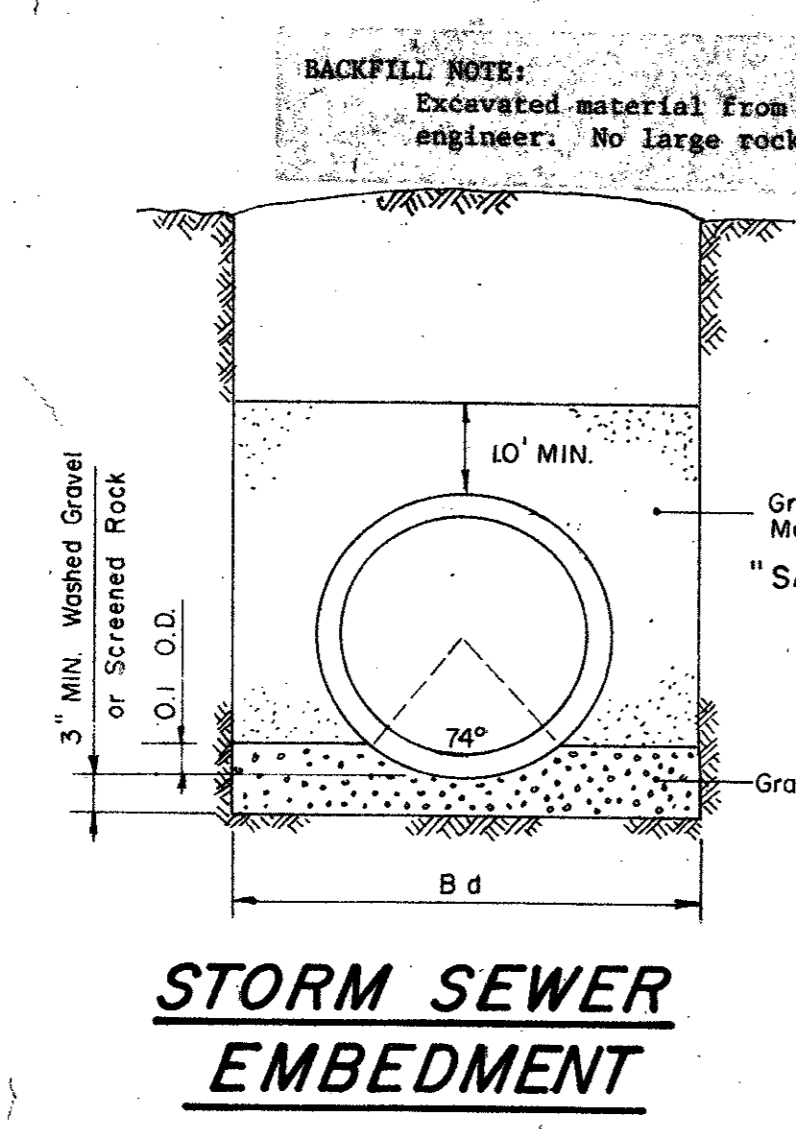
TYPICAL ALL JUNCTION BOXES

CITY OF ADDISON  
DALLAS COUNTY, TEXAS  
ARAPAHO ROAD/QUORUM DRIVE

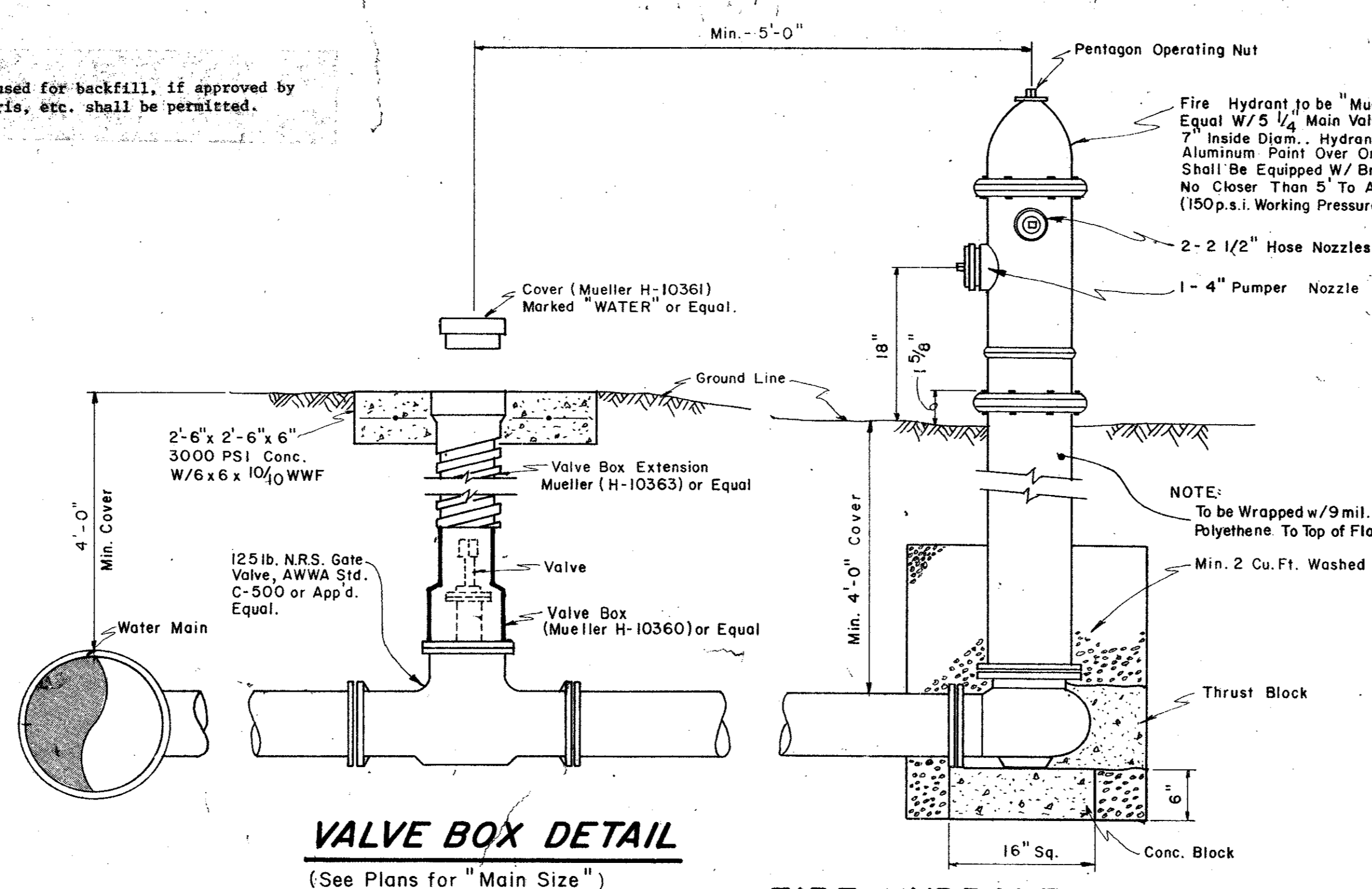
DRAINAGE DETAILS B

GINN, INC.  
Consulting Engineers - Dallas, Texas  
DESIGNED-G.F. DRAWN-G.F. DATE DECEMBER, 1983 JOB NO. J177  
APPROVED-H.G. CHECKED-G.F. SCALE NONE SHEET 20 OF 22

STORM SEWER EMBEDMENT					
PIPE DIAM.		Bd	CU. YDS. Per 100 L.F.		
I.D.	O.D.		GRAVEL	GRANULAR MATERIAL	
15"	19"	39"	4.53	22.28	
18"	22.5"	42"	5.13	25.15	
21"	26"	45"	5.76	28.03	
24"	29.5"	48"	6.42	30.94	
27"	33"	51"	7.11	33.86	
30"	37"	54"	7.85	36.72	
33"	40.5"	57"	8.59	39.64	
36"	44"	60"	9.36	42.58	
39"	47.5"	63"	10.16	45.53	
42"	51"	66"	10.99	48.51	
48"	58"	72"	12.72	54.51	
54"	65"	78"	14.57	60.57	
60"	72"	84"	16.53	66.71	
66"	79"	90"	18.60	72.92	
72"	86"	96"	20.79	79.19	
78"	93"	102"	23.08	85.53	
84"	100"	108"	25.49	91.95	
90"	108.5"	115"	28.47	99.02	
96"	114"	120"	30.64	104.98	
102"	122.5"	129"	34.66	118.41	

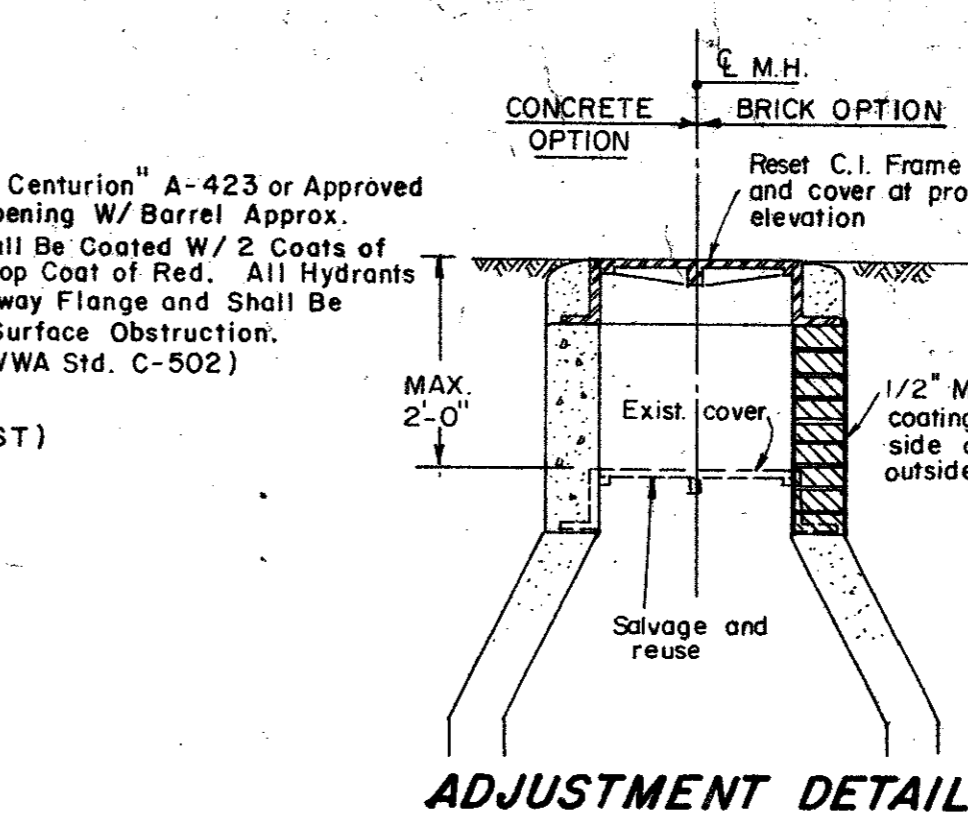


**STORM SEWER EMBEDMENT**

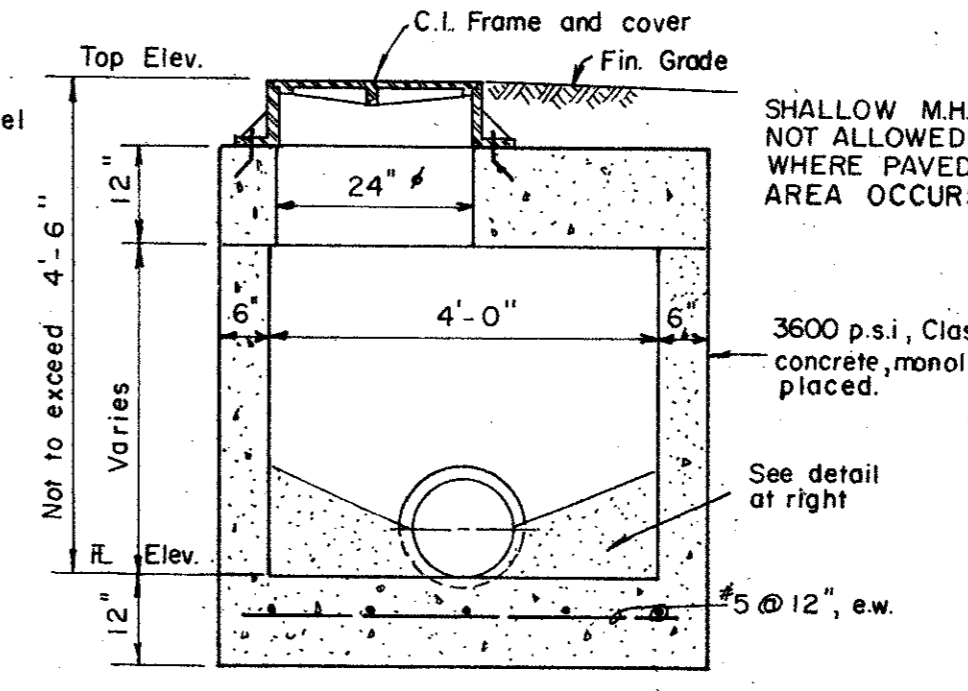


**VALVE BOX DETAIL**  
(See Plans for "Main Size")

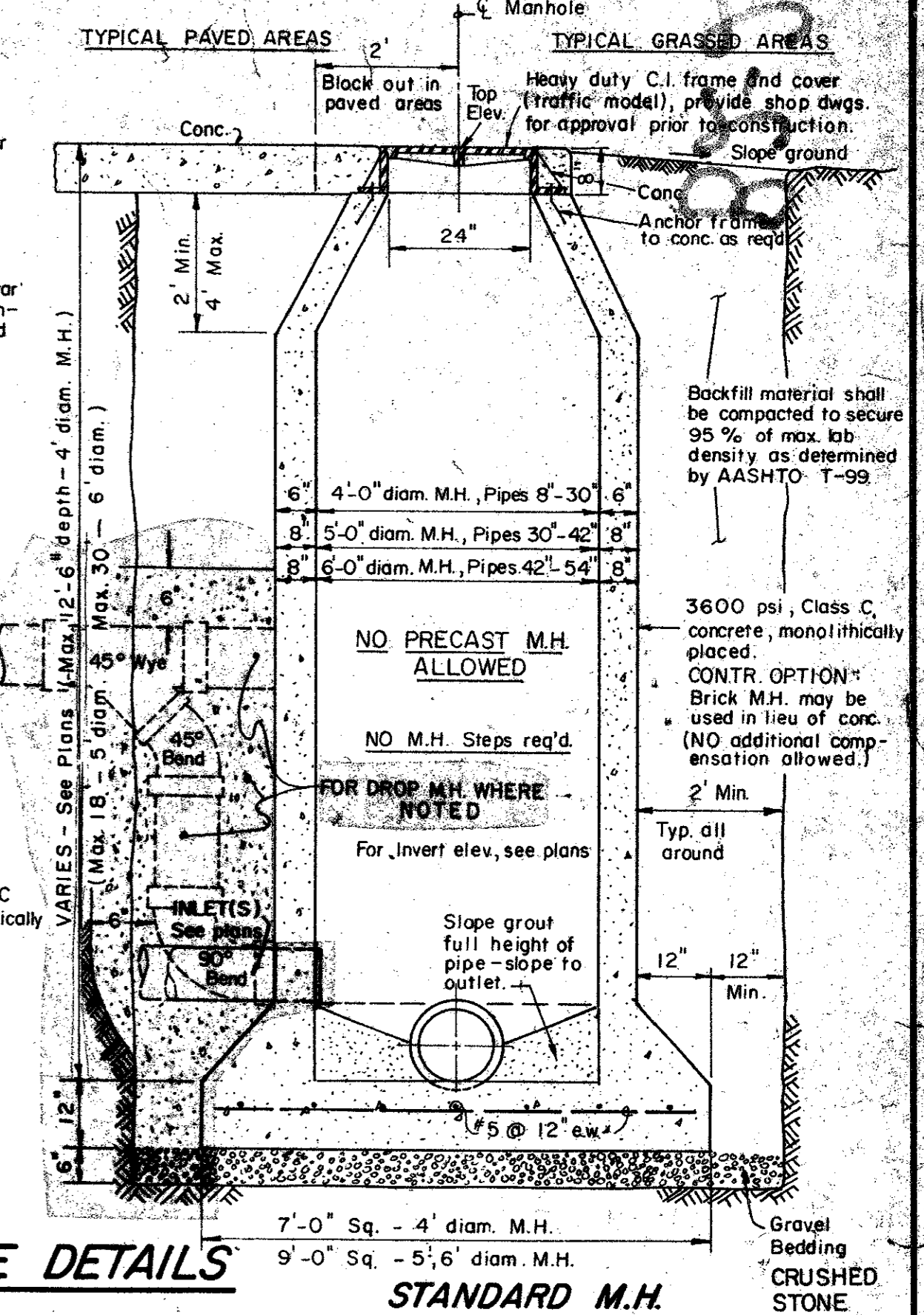
**FIRE HYDRANT INSTALLATION**  
(Includes 6" Valve)



**ADJUSTMENT DETAIL**

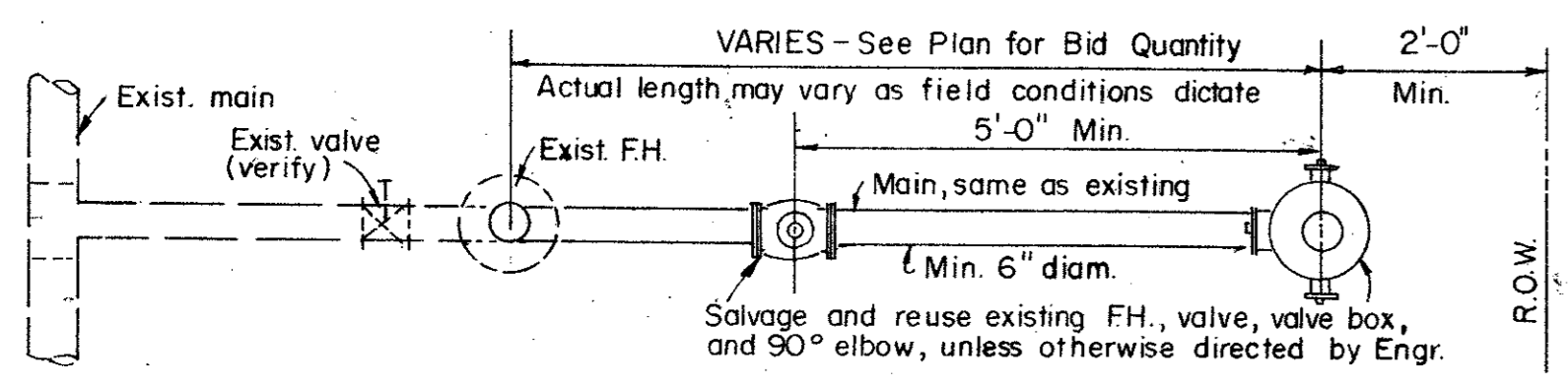


**SHALLOW M.H.**

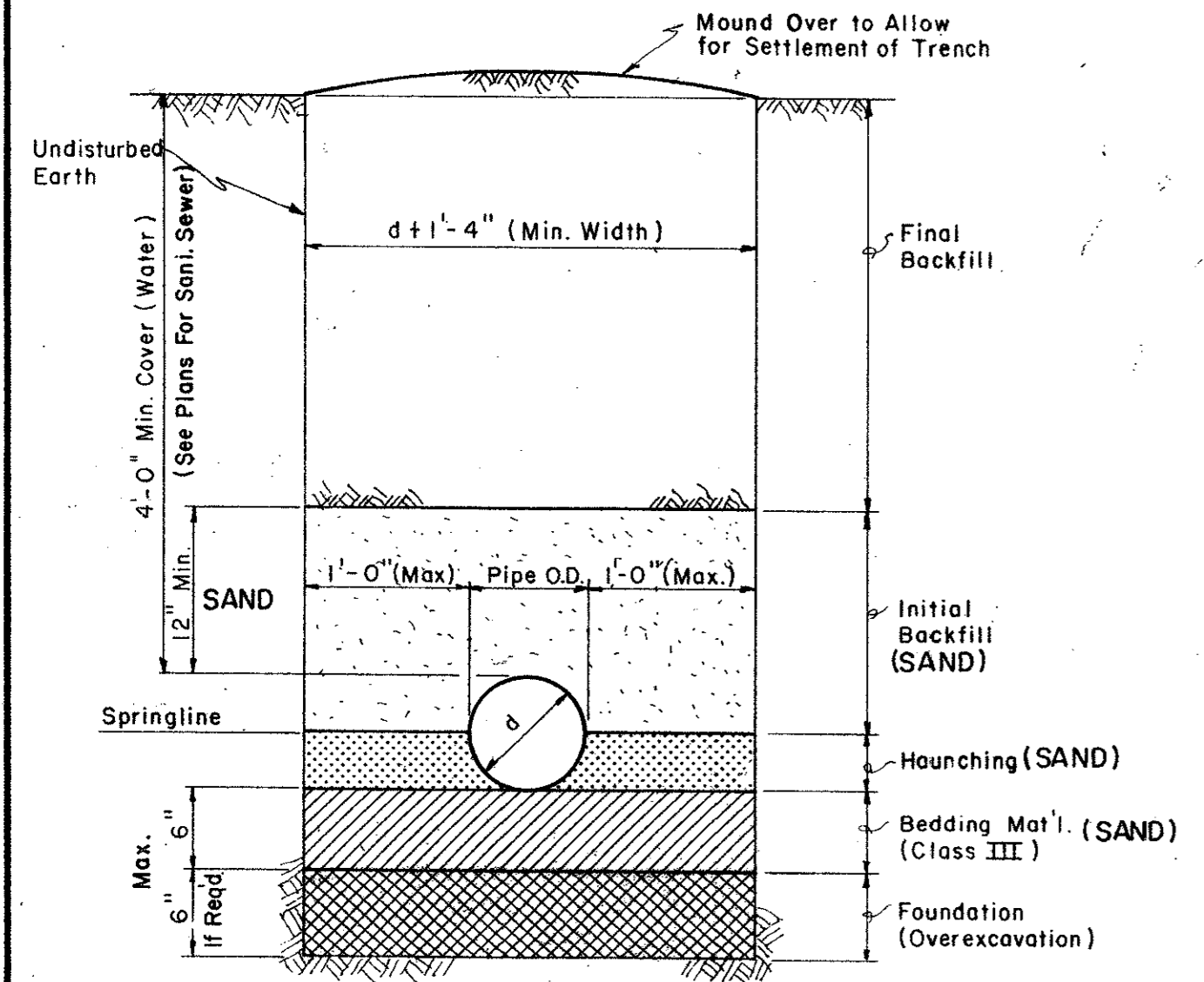


**TYPICAL MANHOLE DETAILS**

**STANDARD M.H.**

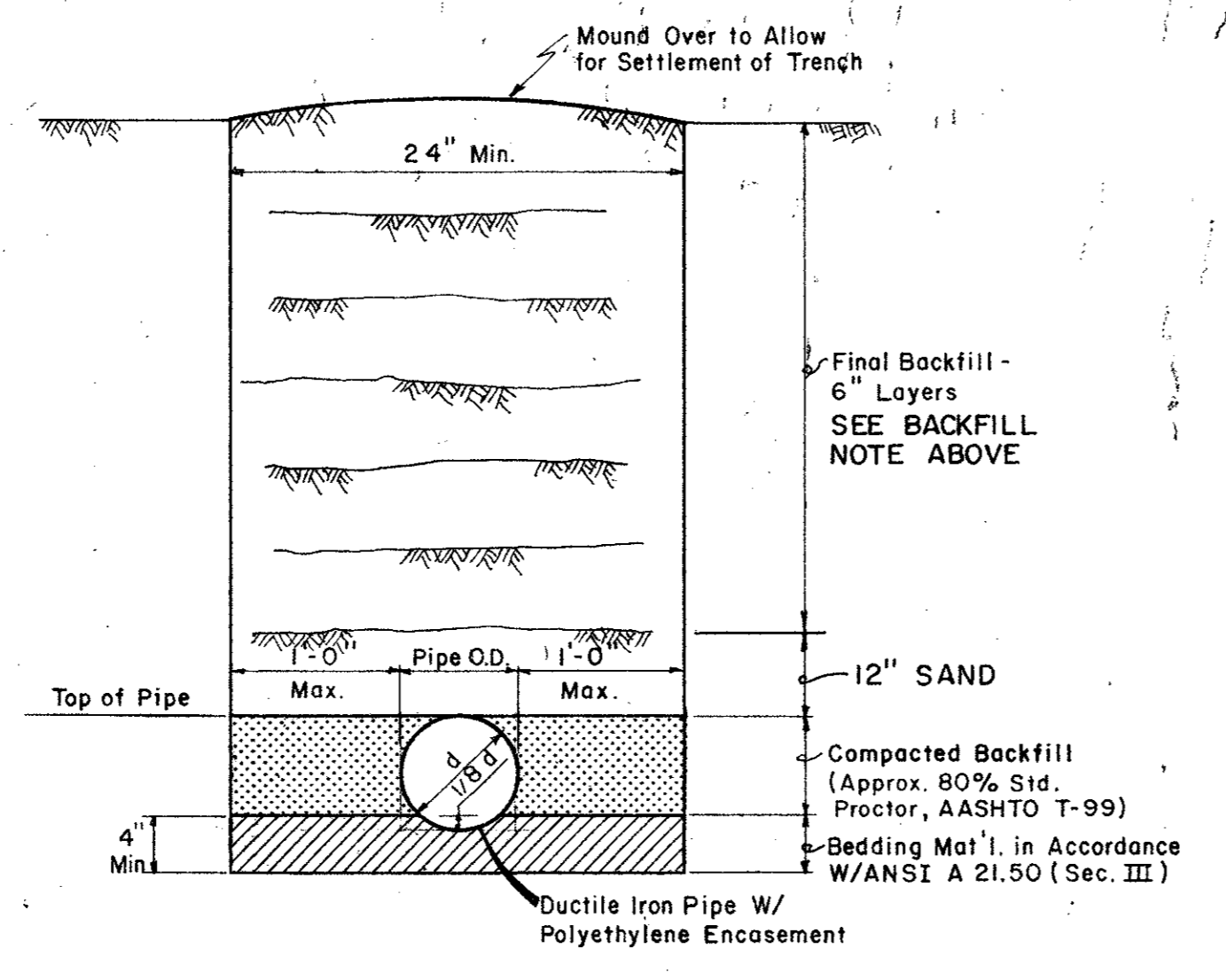


**FIRE HYDRANT RELOCATION DETAIL**



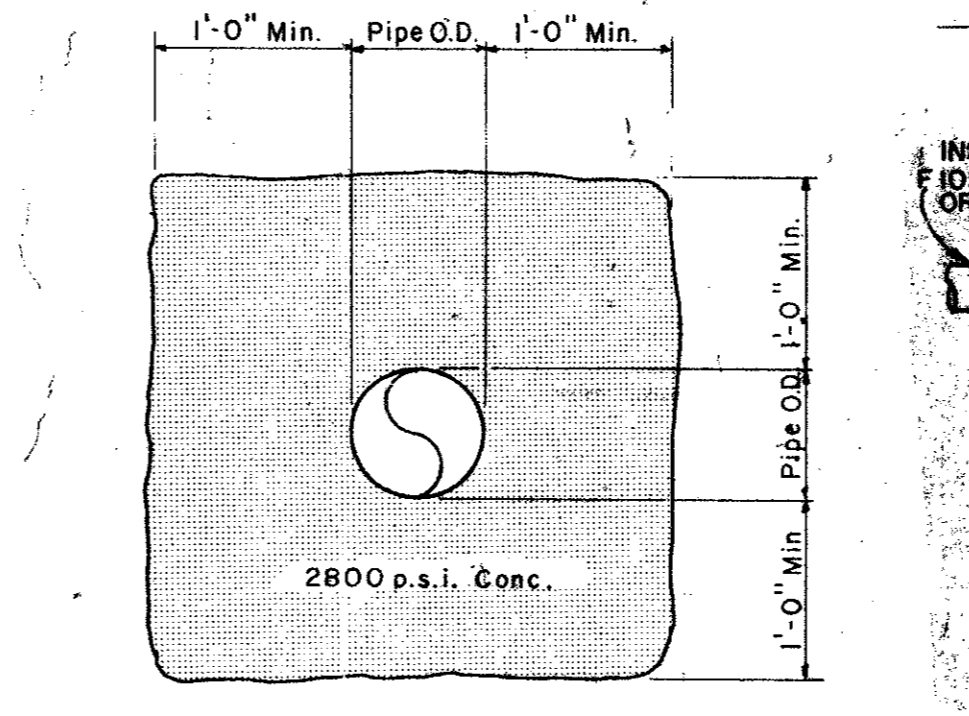
**TYP. BACKFILL DETAIL (P.V.C.)**

Scale = 1" = 1'-0"

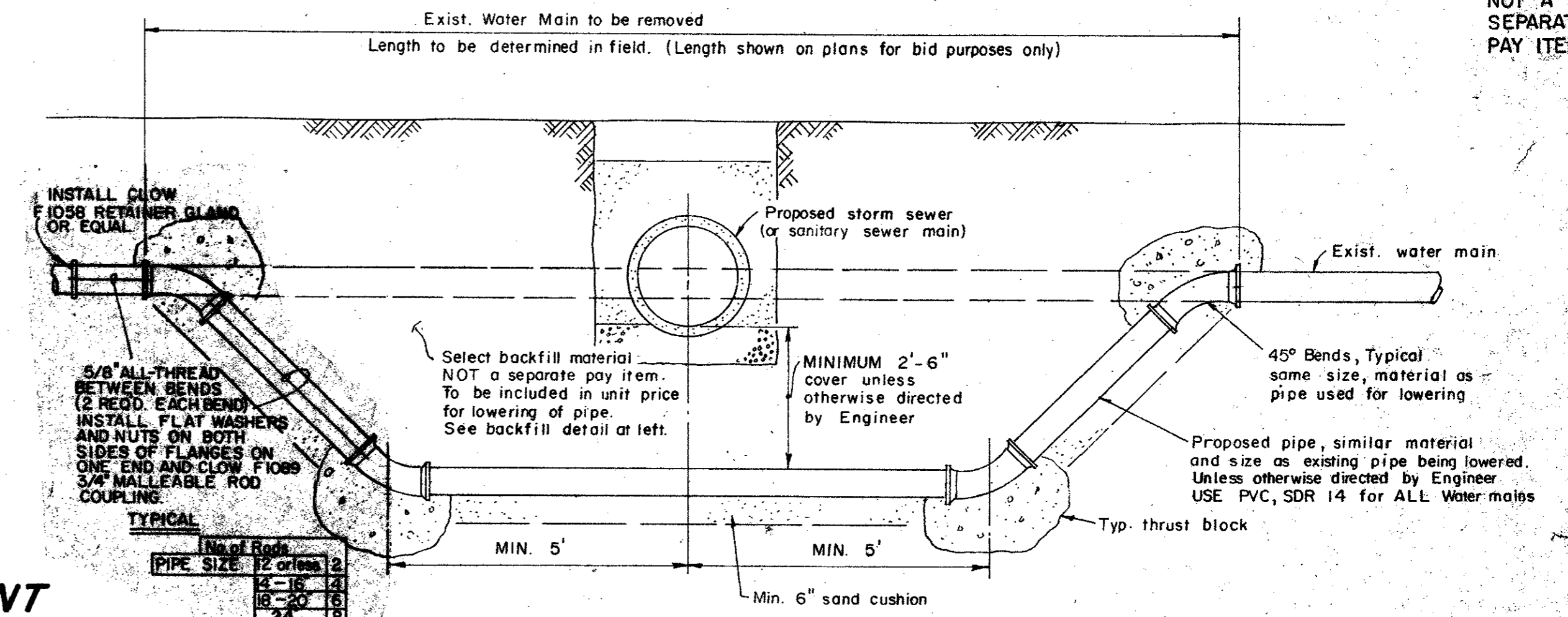


**TYP. BACKFILL DETAIL (DUCTILE IRON PIPE)**

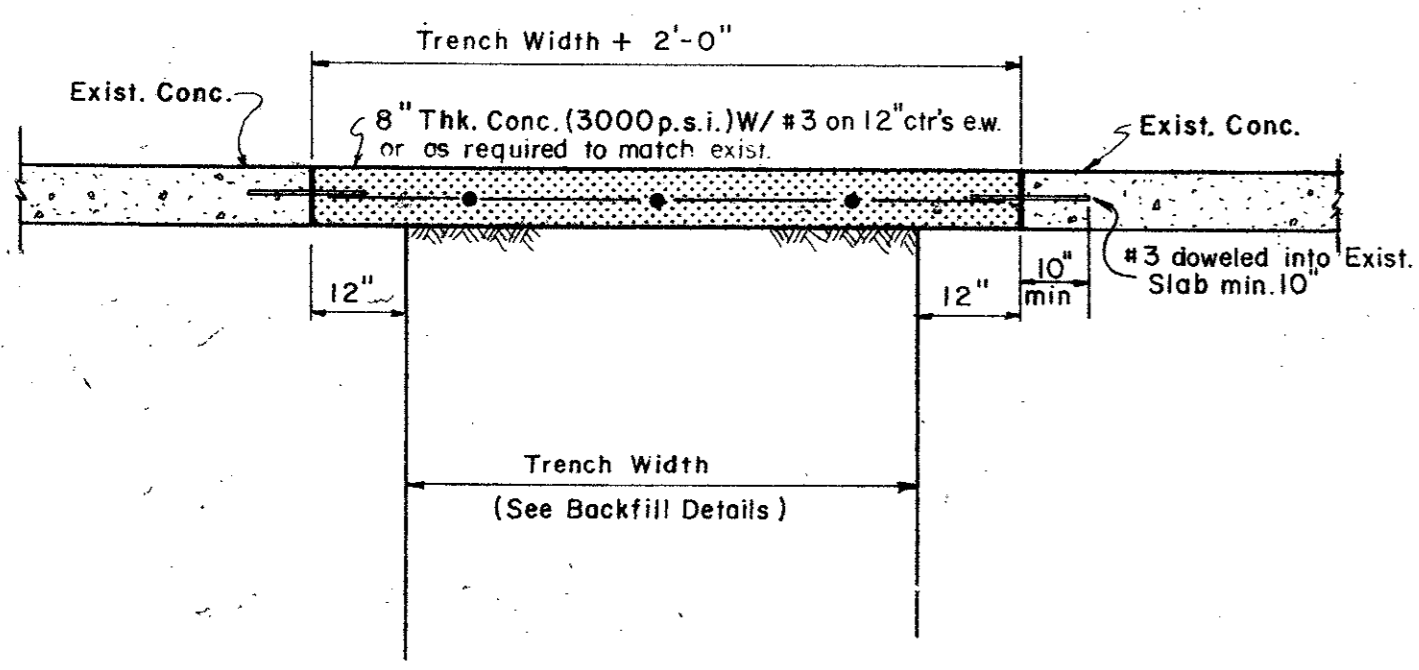
Scale = 1" = 1'-0"



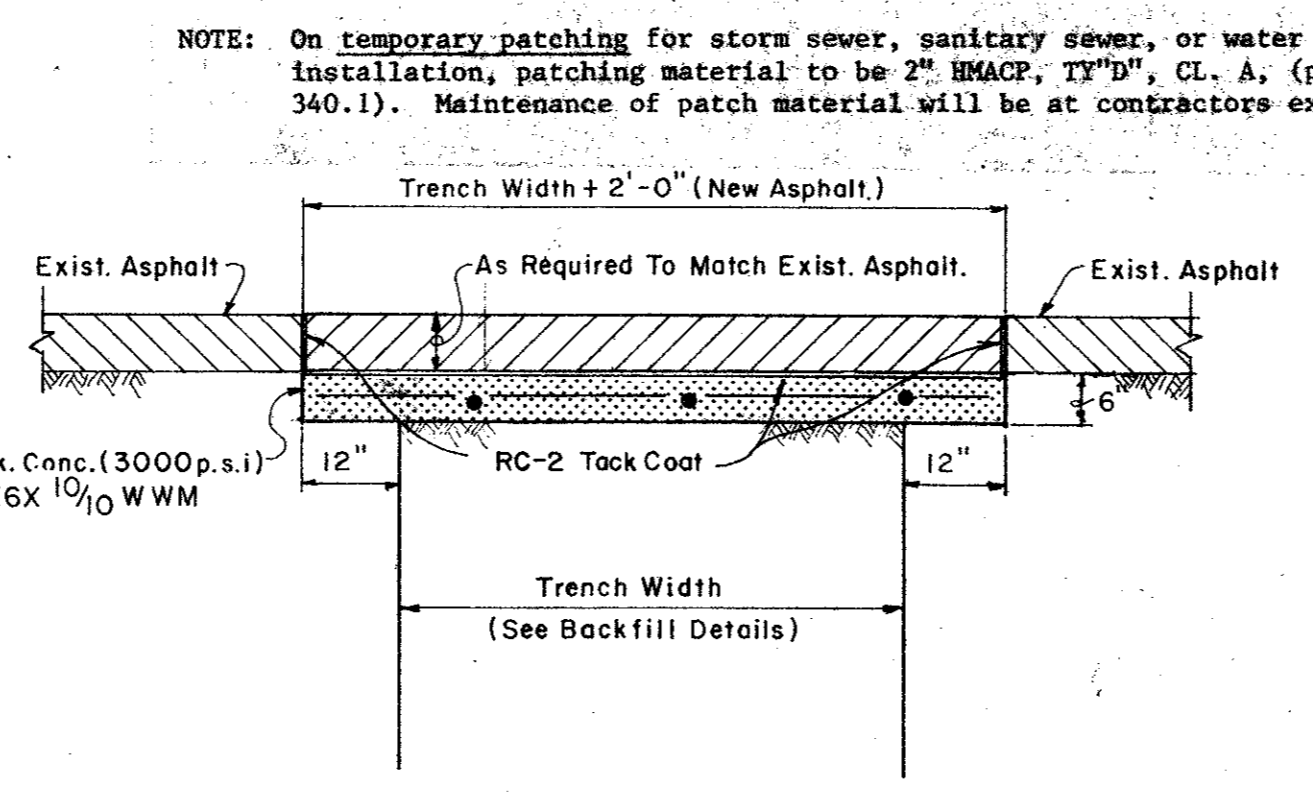
**TYP. CONC. ENCASEMENT**



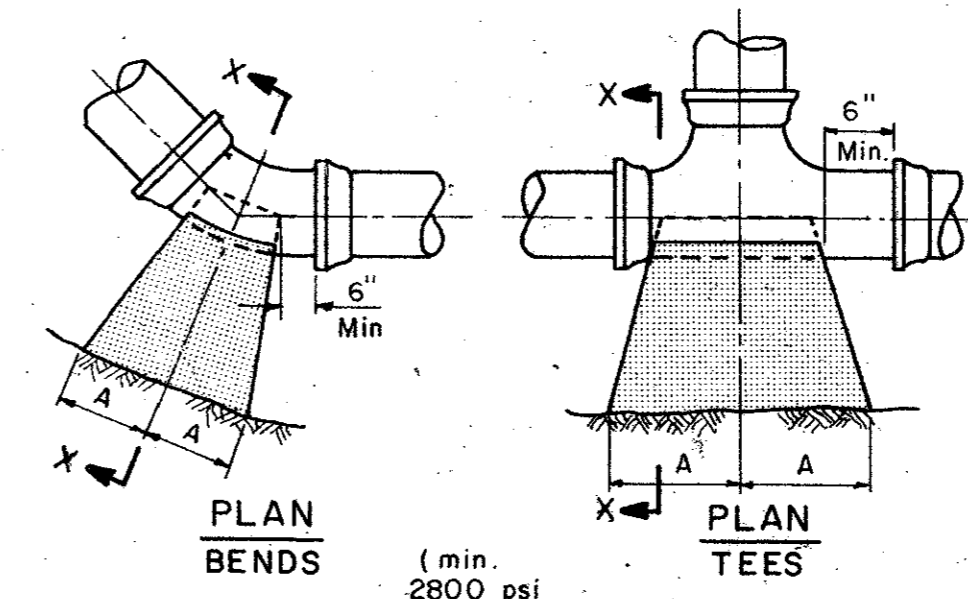
**TYPICAL "LOWERING" DETAIL**



**TYP. CONC. PAVEMENT REPLACEMENT DETAIL**

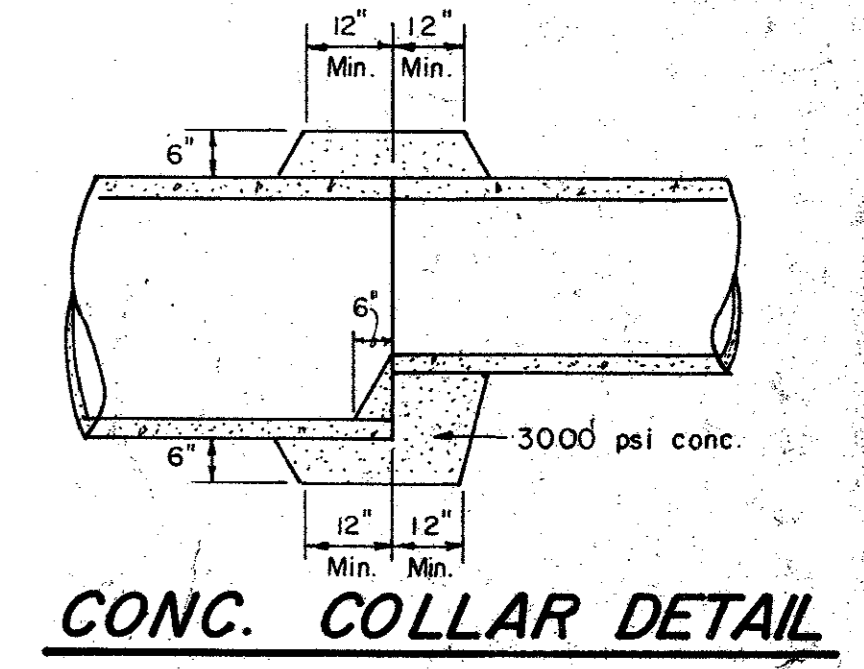


**TYP. ASPHALT PAVEMENT REPLACEMENT DETAIL**



**PLAN BENDS**  
**PLAN & ELEV. PLUGS**

SOIL SIZE	1/2 BEND	1/4 BEND	1/8 BEND	TEE			PLUG	
				A	B	C		
4000 PSF	8"	12"	8"	10"	5"	9"	12"	20"
2000 PSF	8"	22"	13"	8"	10"	13"	18"	29"



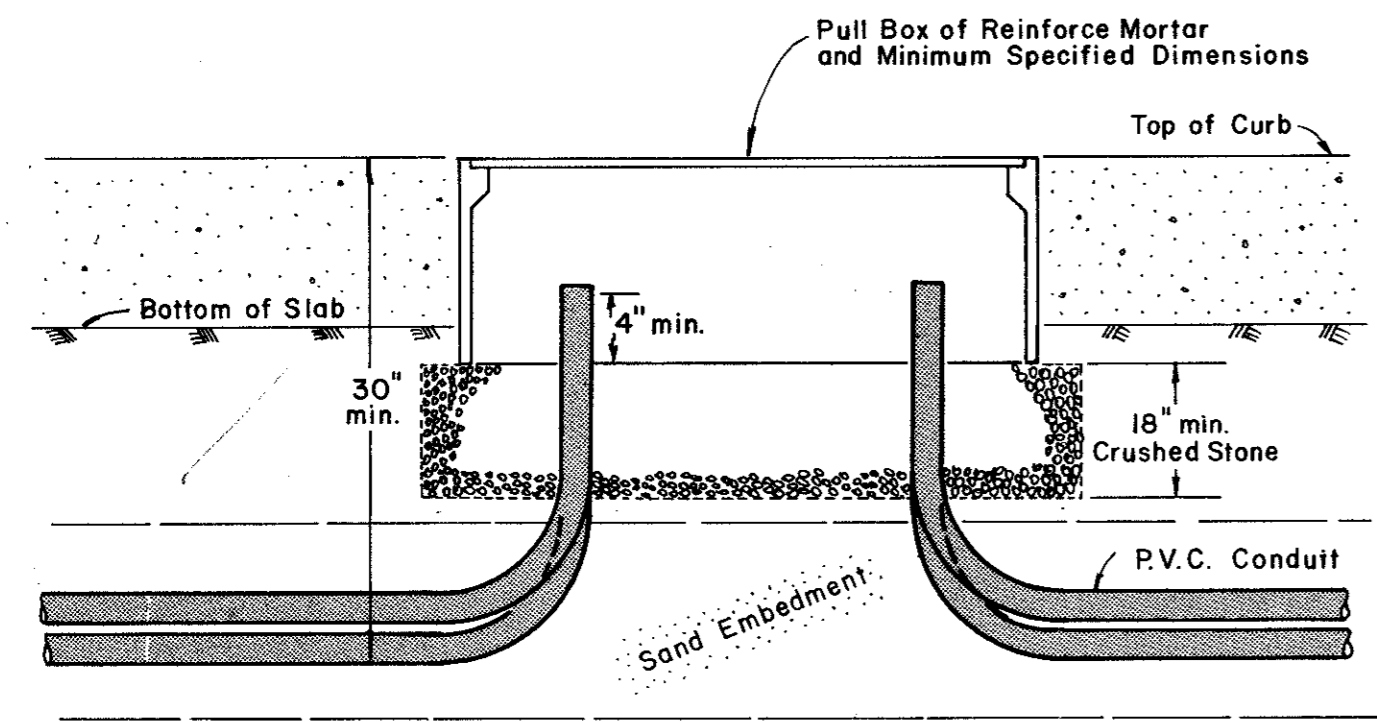
**CONC. COLLAR DETAIL**

CITY OF ADDISON  
DALLAS COUNTY, TEXAS  
ARAPAHO ROAD/ QUORUM DRIVE

**MISC. DETAILS**

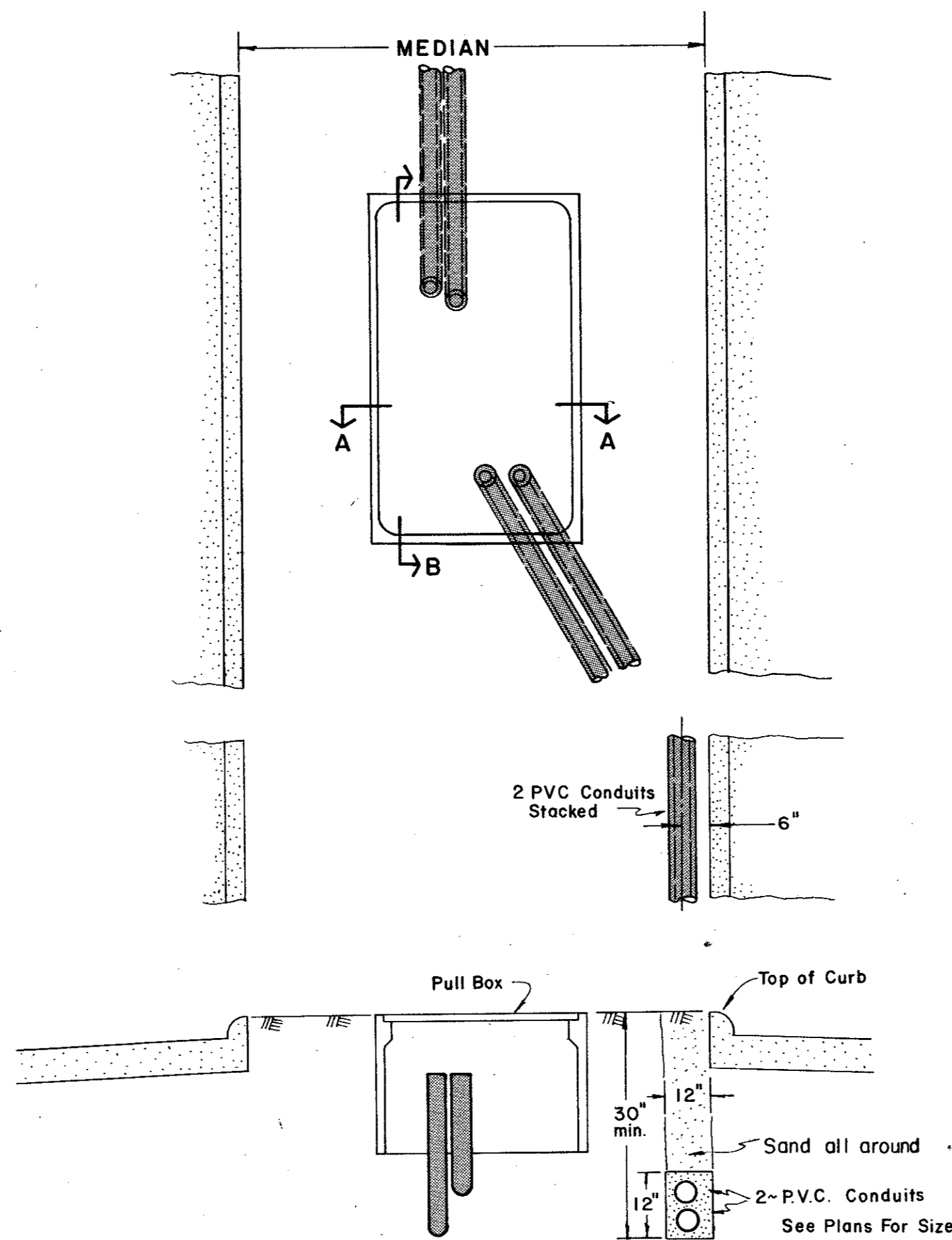
**GINN, INC.**  
Consulting Engineers - Dallas, Texas

DESIGNED: W.K. DRAWN: S.M.M. DATE: DECEMBER, 1988  
APPROVED: H.W.G. CHECKED: G.F. SCALE: AS SHOWN SHEET 21 OF 22

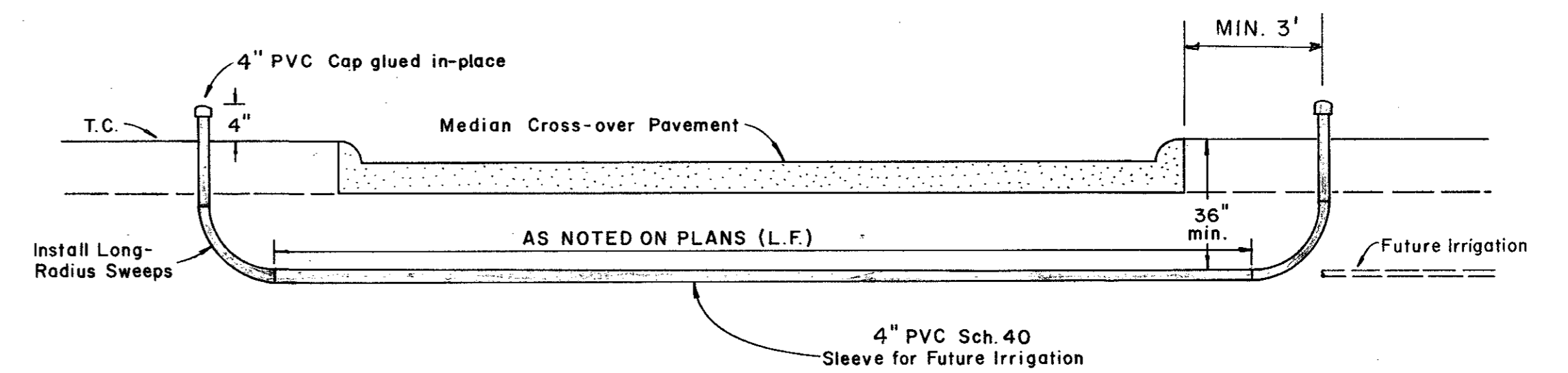


SECT. B-B

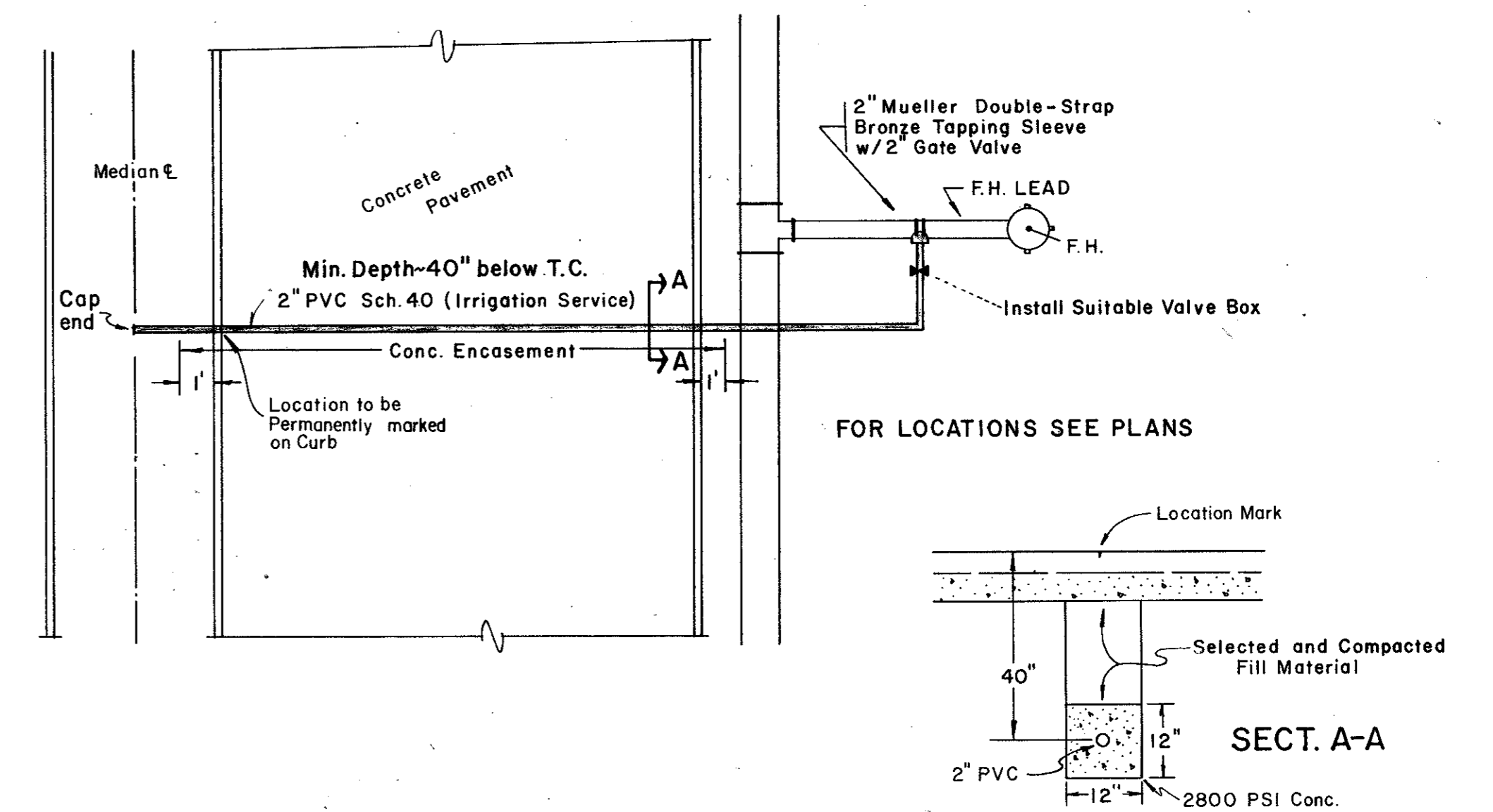
PULL BOX & CONDUIT DETAIL



SECT. A-A



PVC SLEEVE FOR FUTURE IRRIGATION



WATER SERVICE FOR MEDIANS

NO.	REVISION	BY	DATE
CITY OF ADDISON DALLAS COUNTY, TEXAS			
<b>ARAPAHO ROAD/QUORUM DRIVE</b>			
<b>MISC. DETAILS</b>			
GINN, INC. Consulting Engineers - Dallas, Texas			
DESIGNED	DRAWN R.G.B.	DATE DECEMBER, 1983	FILE J-177
APPROVED G.F.	CHECKED G.F.	SCALE NONE	SHEET 22 OF 22