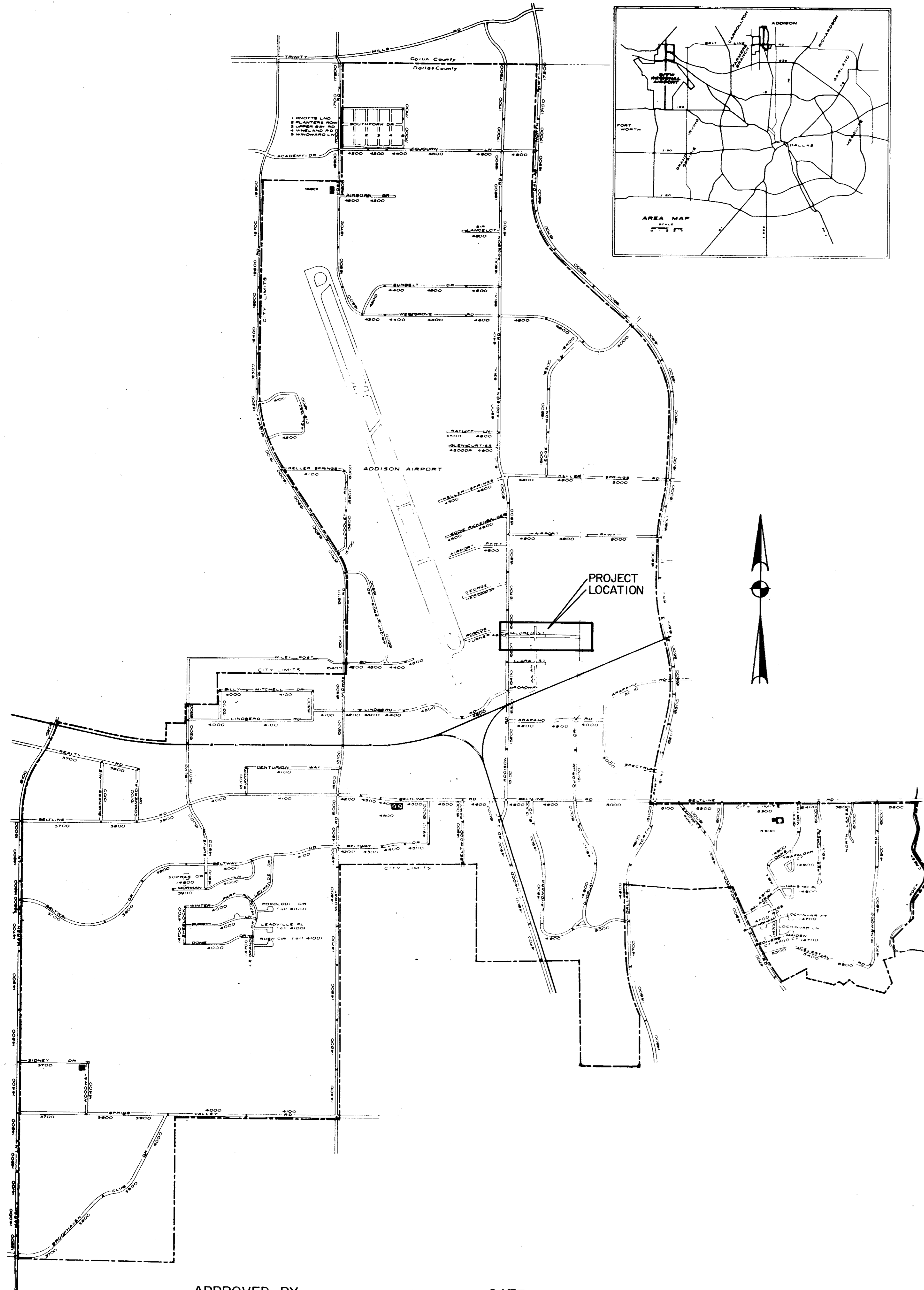


TOWN OF  
**ADDISON**  
DALLAS COUNTY, TEXAS

CONSTRUCTION PLANS FOR

# MILDRED STREET IMPROVEMENTS

As Built



APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
D. LYNN SPRUILL, MAYOR

MAYOR:  
D. LYNN SPRUILL

COUNCIL MEMBERS:  
JOHN BRANCH  
MARY DOLAN  
JIM DUFFY  
DAVID GRANOFF  
RILEY REINKER

CITY MANAGER:  
RON WHITEHEAD

DIRECTOR OF STREETS:  
ROBIN JONES

DIRECTOR OF UTILITIES:  
DON PREECE

DIRECTOR OF PARKS:  
SLADE STRICKLAND

## INDEX TO DRAWINGS

Sheet No.	Description
	COVER SHEET
M1	PAVING, STA. 0+00 TO STA. 5+00
M2	PAVING, STA. 5+00 TO STA. 8+50
M3	PAVING, STA. 8+50 TO STA. 11+45
M4	STANDARD DETAILS-PAVING
M5	STANDARD DETAILS-PAVING
M6	STANDARD DETAILS-PAVING
M7	STANDARD DETAILS-PAVING
M8	DRAINAGE AREA MAP
M9	DRAINAGE, STA. 0+00 TO STA. 5+00
M10	DRAINAGE, STA. 5+00 TO STA. 8+50
M11	DRAINAGE, STA. 8+50 TO STA. 11+45
M12	STANDARD DETAILS, DRAINAGE
S1	SANITARY SEWER LOCATION MAP
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S3	SANITARY SEWER - MILDRED STREET
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S5	SANITARY SEWER - PROFILES
S6	SANITARY SEWER - JULIAN TO QUORUM
S7	SANITARY SEWER - QUORUM TO DALLAS NORTH TOLLWAY
S8	STANDARD DETAILS, SANITARY SEWER
S9	STANDARD DETAILS, SANITARY SEWER
S10	STANDARD DETAILS, SANITARY SEWER



GINN, INC.  
Consulting Engineers Dallas, Texas  
JUNE, 1990

- NOTES: (Typical All Sheets)
1. For Details of Sanitary Sewer Lines, See Sht. S1 thru S10.
  2. For Details of Storm Sewer Lines, See Sht. M8 thru M12.
  3. For Typical Pavement Section Details, See Sht. M4 thru M6.
  4. Provide Barrier Free Ramps At Curbs & Drives. See Sht. M7.
  5. Control Joints & Expansion Joints Shall Be "RADIAL", Not Perpendicular To Curb, In Area Of Circle.

As per field change

Curb height varies from full 6" height to 0" at Walk.

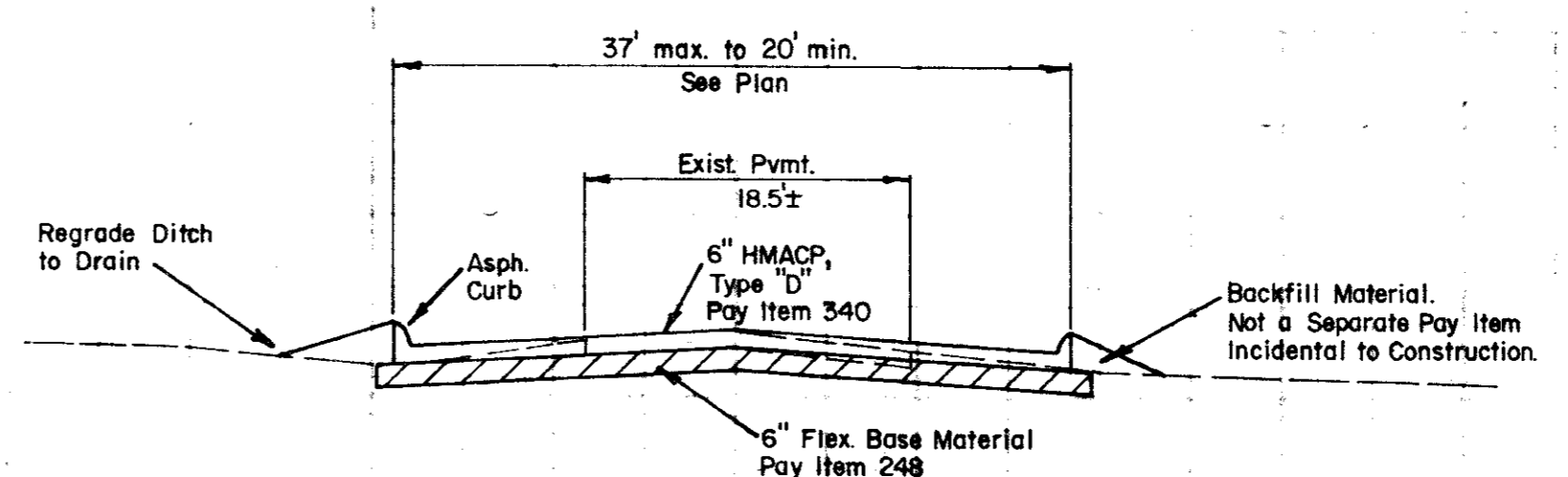
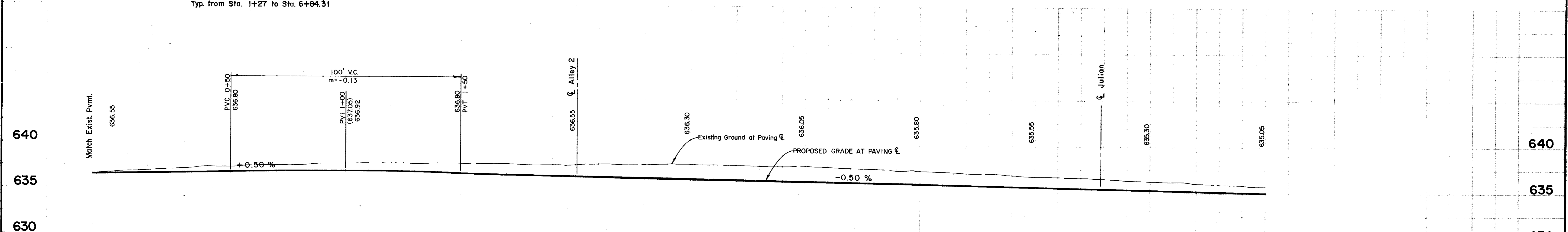
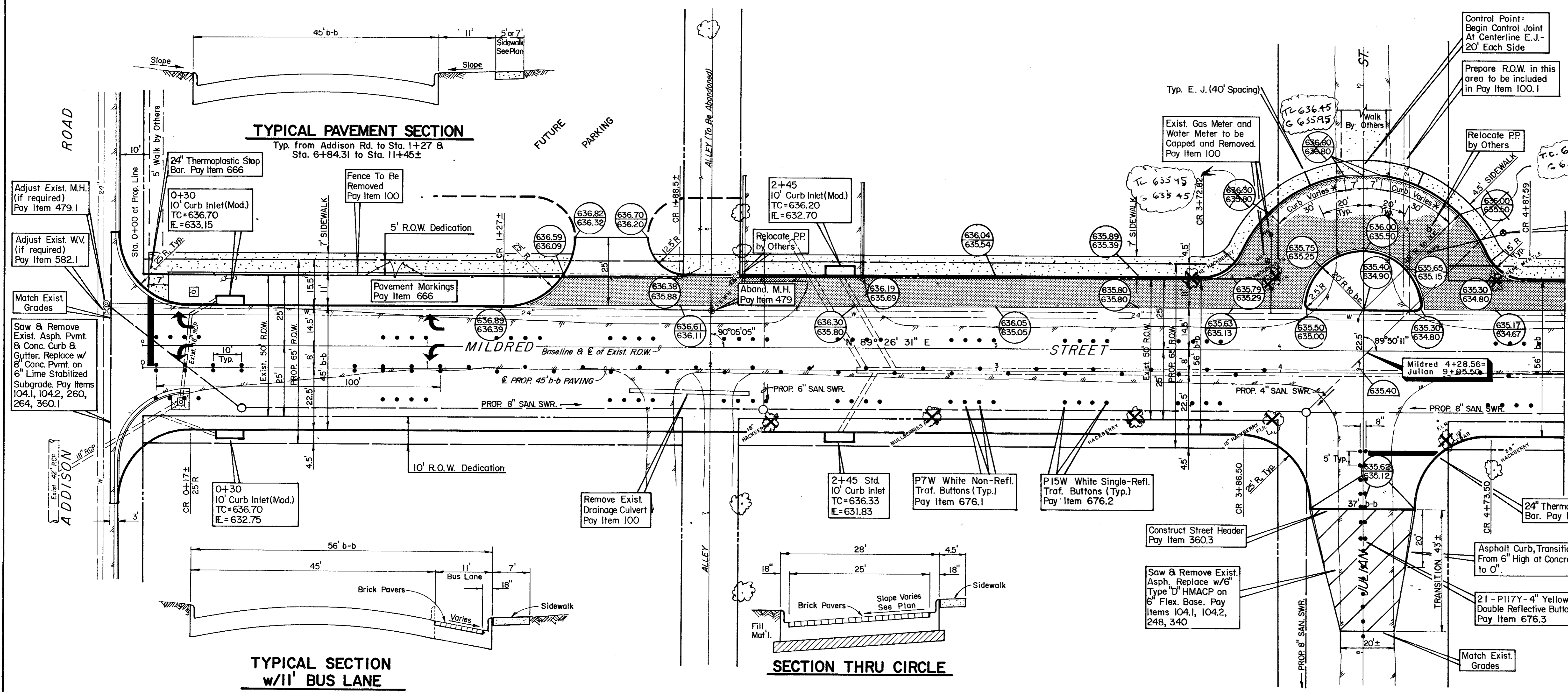
Relocate Exist. W.M. Extend Service w/ 3/4" Copper, Set New Meter Box, Use Exist. Meter, As Per Town Of Addison Standards. Contact Utility Department. Pay Item 582.2

BEGINNING TO STA. 6+50

NOTE: 8" Reinf. Conc. Pavement, Class C, 3600 psi at 28 days (compressive) or 600 psi at 7 days (flexural). Pay Item 360.1.  
Integral Concrete Curb & Gutter. Pay Item 530.1.  
6" Thick Lime Stabilized Subgrade. Pay Item 260, 264.

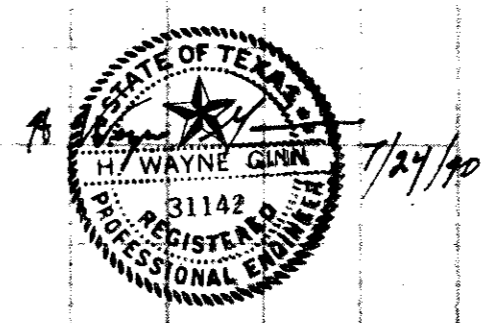
B.M. - "□" on edge of Conc. Apron at E. of Doorway of Water Tower. Elev. 638.66

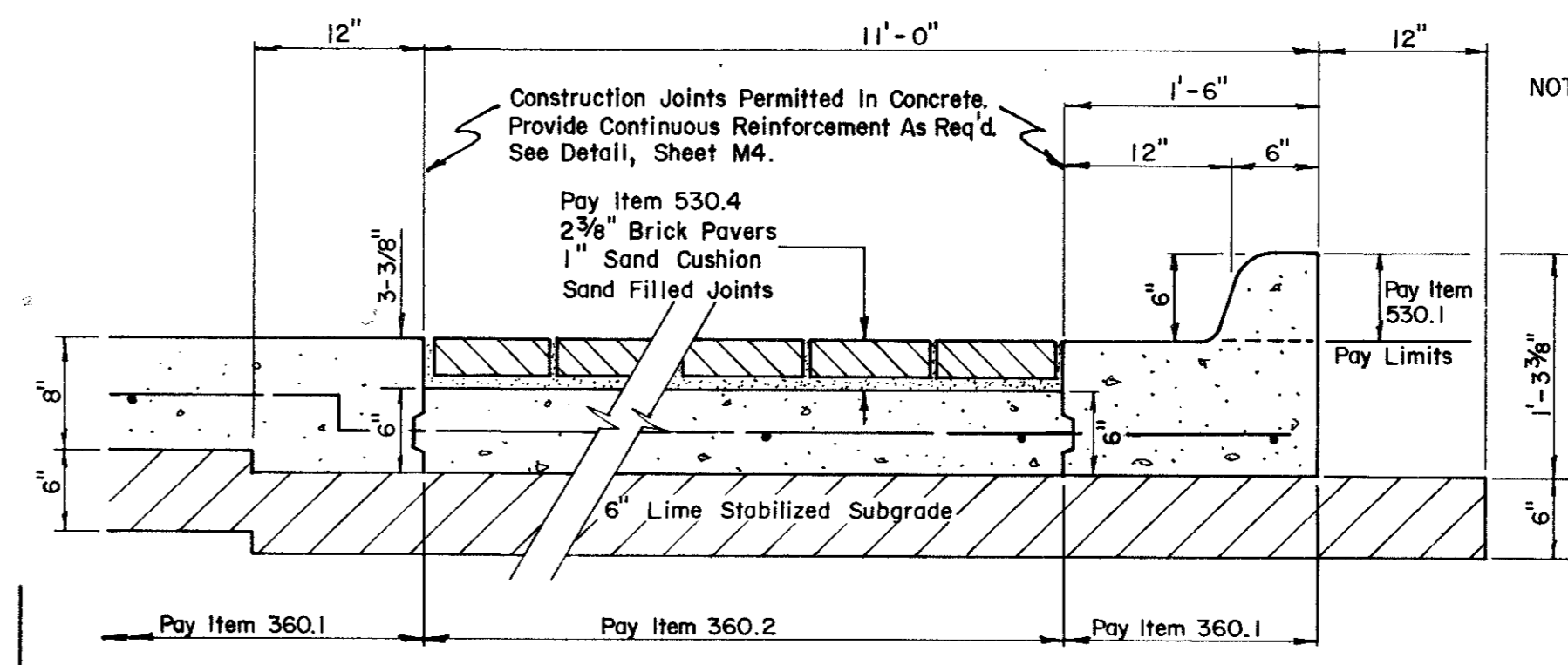
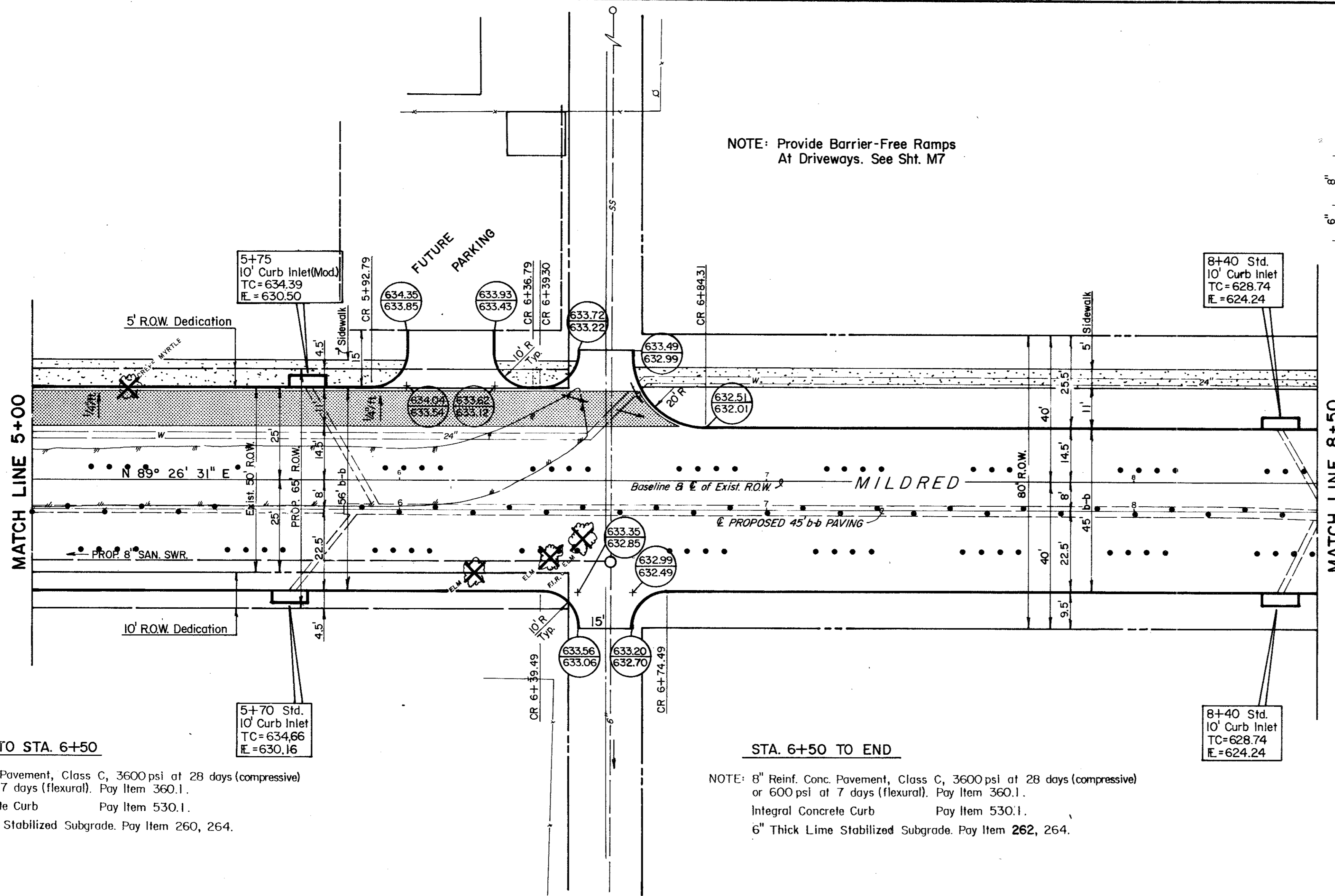
Existing Trees To Be Removed Pay Item 100



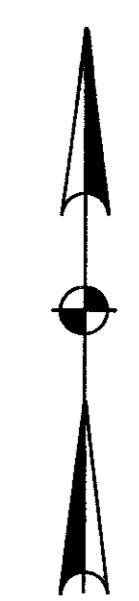
TYPICAL SECTION-JULIAN STREET

No.	Revision	By	Date
TOWN OF ADDISON DALLAS COUNTY, TEXAS <b>MILDRED STREET IMPROVEMENTS</b> <b>PAVING</b> <b>STA. 0+00 TO STA. 5+00</b> <b>GINN, INC.</b> Consulting Engineers Dallas, Texas			
Designed - TEC	Drawn - TEC	Date - May, 1990	Job No. - 90439
Approved - HWG	Checked - GF	Scale - 1" = 20'H/1" = 5'V	Sheet MI of 12





NOTE: Bricks To Be Holland-Stone I, Antique Red, w/Running Bond Pattern (Perpendicular To Traffic Flow)-See Specs.



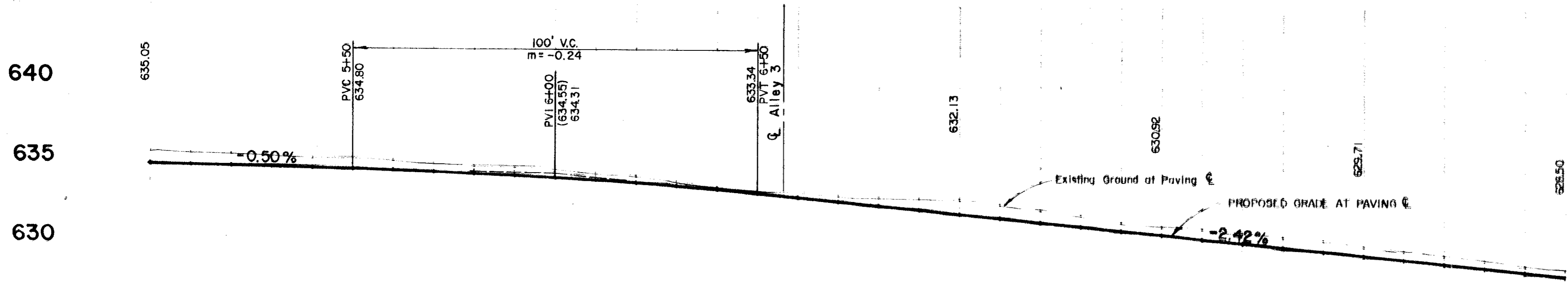
BEGINNING TO STA. 6+50

NOTE: 8" Reinf. Conc. Pavement, Class C, 3600 psi at 28 days (compressive) or 600 psi at 7 days (flexural). Pay Item 360.1.  
Integral Concrete Curb Pay Item 530.1.  
6" Thick Lime Stabilized Subgrade. Pay Item 260, 264.

STA. 6+50 TO END

NOTE: 8" Reinf. Conc. Pavement, Class C, 3600 psi at 28 days (compressive) or 600 psi at 7 days (flexural). Pay Item 360.1.  
Integral Concrete Curb Pay Item 530.1.  
6" Thick Lime Stabilized Subgrade. Pay Item 262, 264.

B.M. - "□" on edge of Conc. Apron at C. of Doorway of Water Tower. Elev. 638.66



5+00 6+00 7+00 8+00

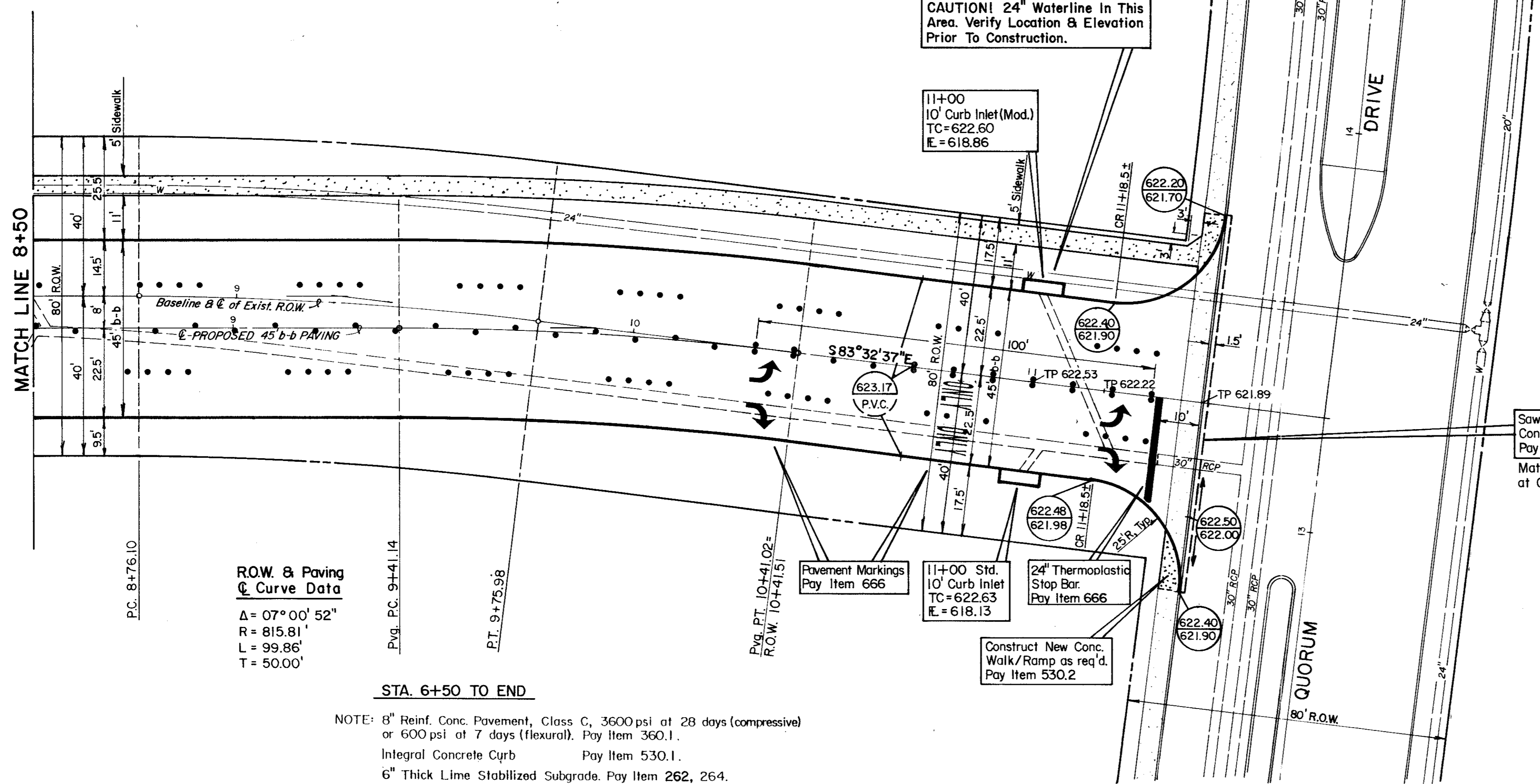
630  
625  
620



No.	Revision	By	Date
TOWN OF ADDISON DALLAS COUNTY, TEXAS <i>As Built</i>			
<b>MILDRED STREET IMPROVEMENTS</b>			
<b>PAVING</b>			
<b>STA. 5+00 TO STA. 8+50</b>			
<b>GINN, INC.</b>			
Consulting Engineers Dallas, Texas			
Designed - TEC	Drawn - TEC	Date - May, 1990	Job No. - 90439
Approved - HWG	Checked - GF	Scale - 1" = 20'H/1" = 5'V	Sheet M2 of 12



NOTE: Area Within Limits Of R.O.W. Not Receiving Pavement Shall Be Replaced With "Rye Grass". See Specs.



**R.O.W. & Paving Curve Data**  
 $\Delta = 07^\circ 00' 52''$   
 $R = 815.81'$   
 $L = 99.86'$   
 $T = 50.00'$

**STA. 6+50 TO END**

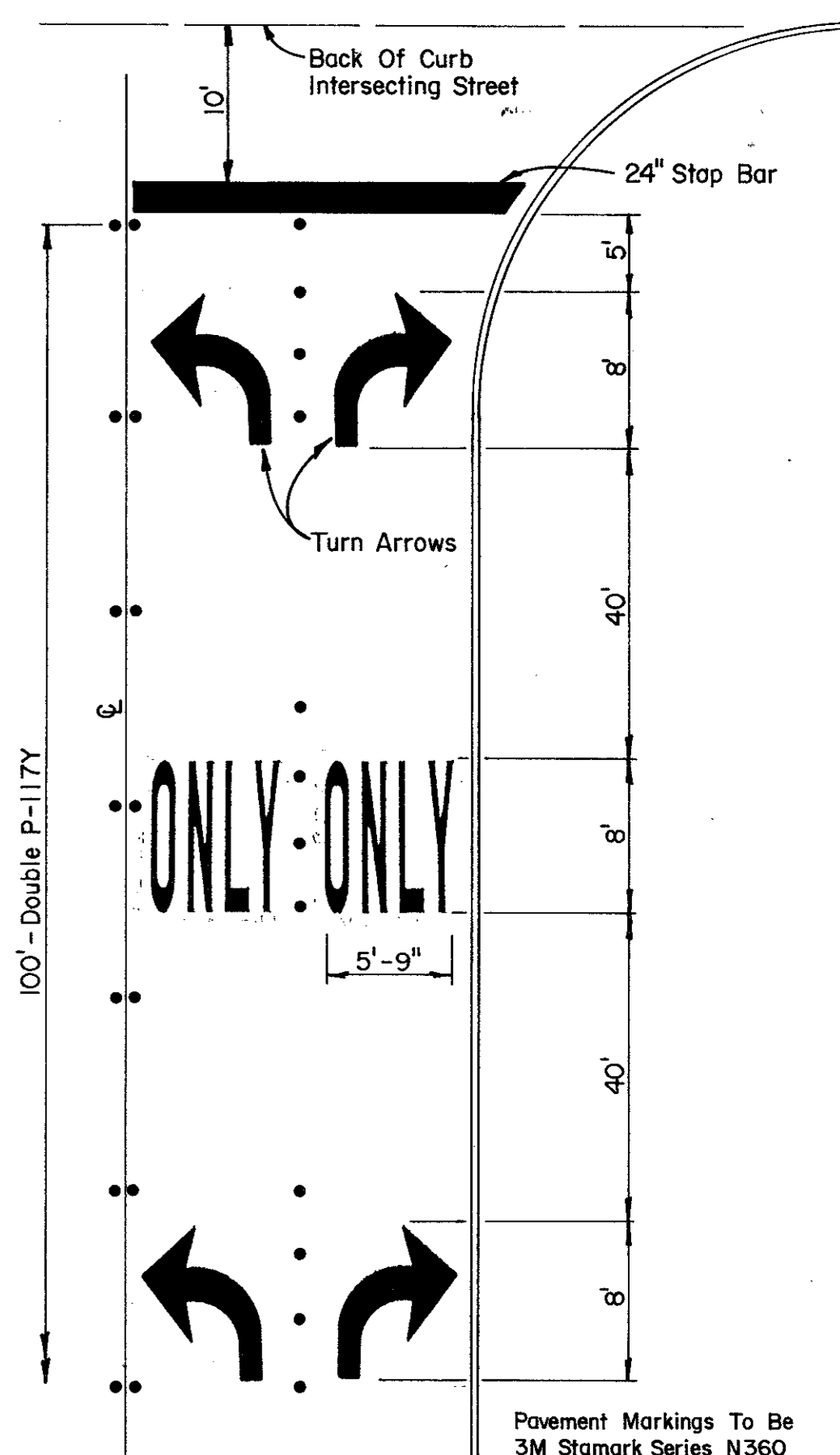
NOTE: 8" Reinf. Conc. Pavement, Class C, 3600 psi at 28 days (compressive) or 600 psi at 7 days (flexural). Pay Item 360.1.  
 Integral Concrete Curb Pay Item 530.1.  
 6" Thick Lime Stabilized Subgrade. Pay Item 262, 264.

CAUTION! 24" Waterline In This Area. Verify Location & Elevation Prior To Construction.

11+00  
 10' Curb Inlet (Mod.)  
 TC = 622.60  
 E. = 618.86

Saw & Remove Exist. Conc. Curb & Gutter. Pay Items 104.1, 104.2  
 Match Exist. Grades at Curb Line

Construct New Conc. Walk/Ramp as req'd. Pay Item 530.2

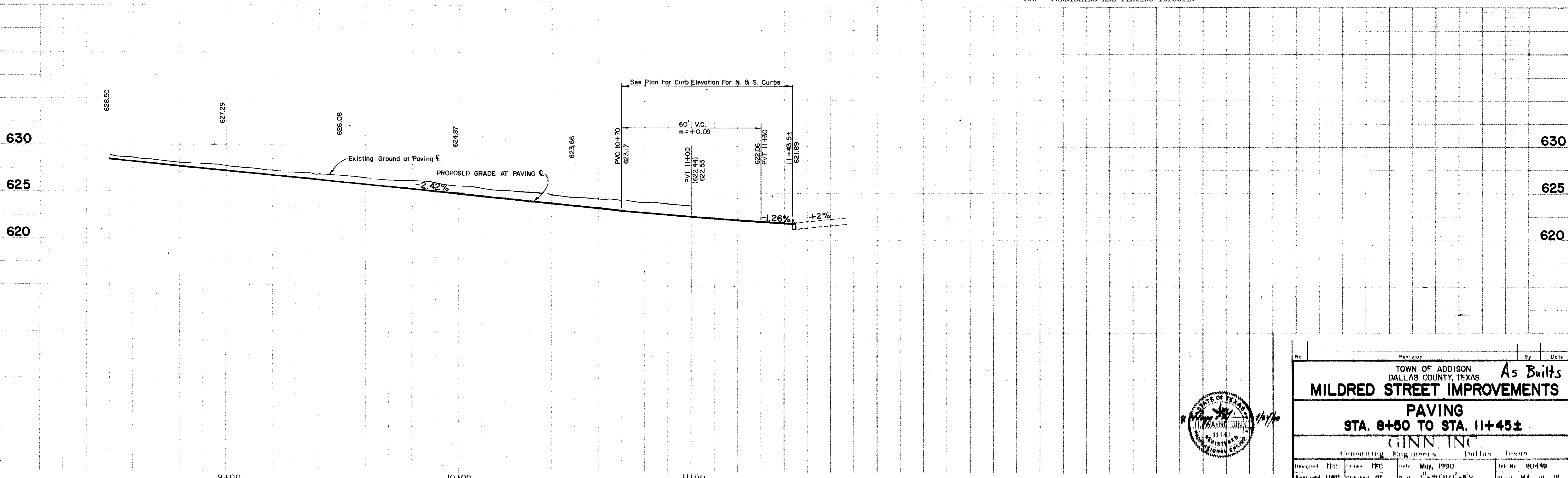


**PAVEMENT MARKING DETAIL**  
 No Scale Pay Item 666

Pavement Markings To Be 3M Starmark Series N360 & Series SMS-N360.

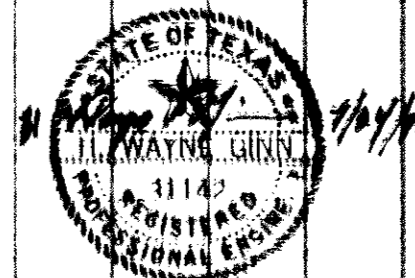
B.M. "□" on edge of Conc. Apron at C. of Doorway of Water Tower. Elev. 638.66

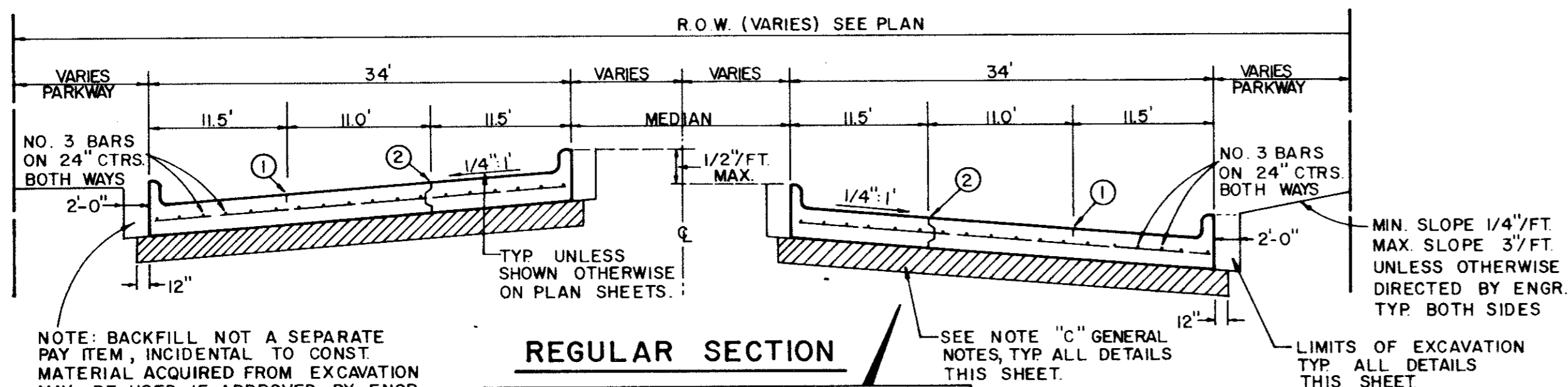
NOTE: Seeding for Temporary Erosion Control, ANNUAL RYE, shall meet all the requirements of Texas State Highway Department, Item 164 - Seeding for Erosion Control, and the Town of Addison standards. Payment for this item, including bed preparation, fertilizer, mulch, seeding and watering shall be included in PAY ITEM 160 - FURNISHING AND PLACING TOPSOIL.



See Plan For Curb Elevation For N. & S. Curbs

No.	Revision	By	Date
TOWN OF ADDISON DALLAS COUNTY, TEXAS <b>MILDRED STREET IMPROVEMENTS</b> <b>PAVING</b> <b>STA. 8+50 TO STA. 11+45±</b> <b>GINN, INC.</b> Consulting Engineers Dallas, Texas			
Designed TEC	Drawn TEC	Date May, 1990	Job No. 90498
Approved HWG	Checked BF	Scale 1" = 20' H / 1" = 4' V	Sheet M4 of 1P



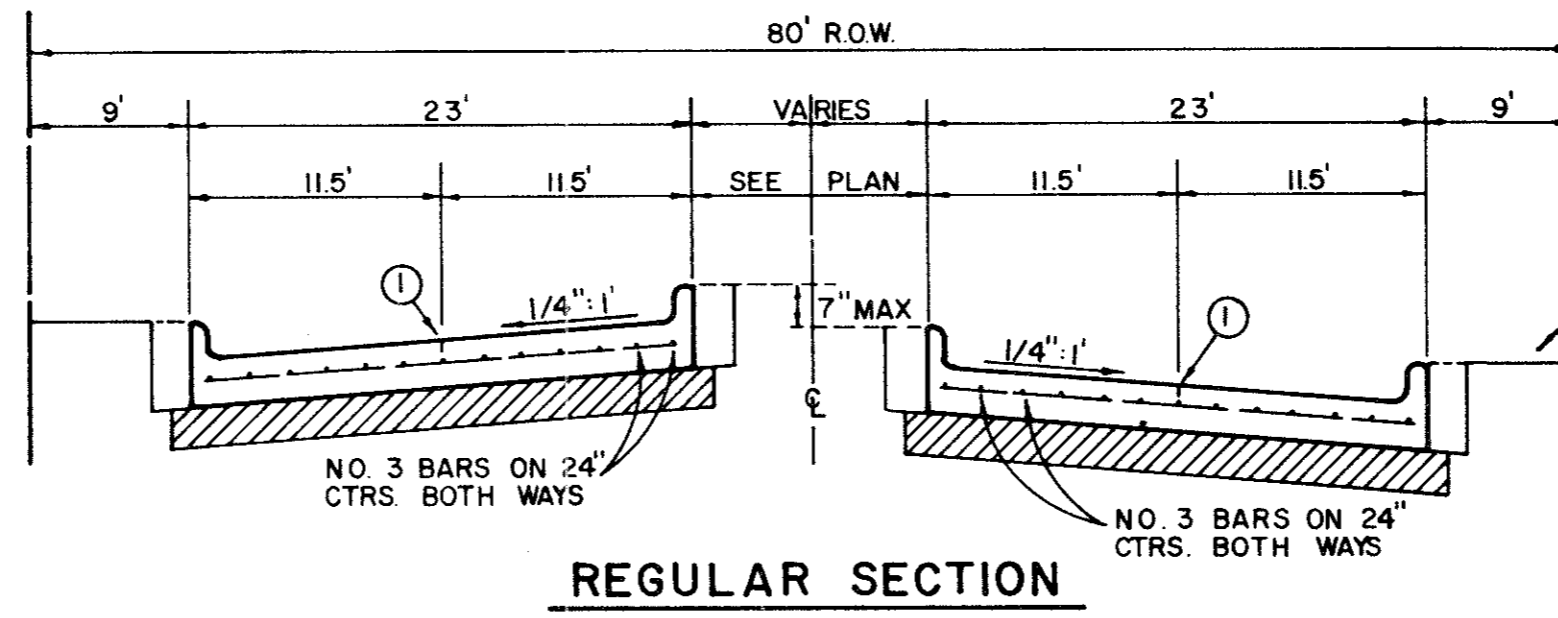


REGULAR SECTION

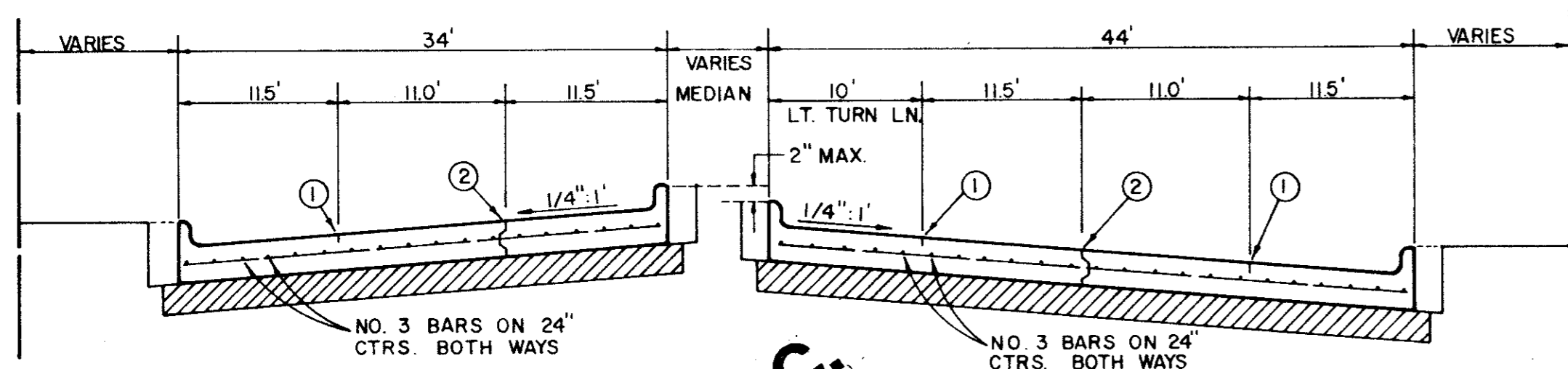
NOTE: BACKFILL NOT A SEPARATE PAY ITEM, INCIDENTAL TO CONST. MATERIAL ACQUIRED FROM EXCAVATION MAY BE USED IF APPROVED BY ENGR.

NOTE: ALL TYPICAL NOTES SHOWN THIS DETAIL SHALL APPLY TO ALL DETAILS THIS SHEET UNLESS OTHERWISE INDICATED.

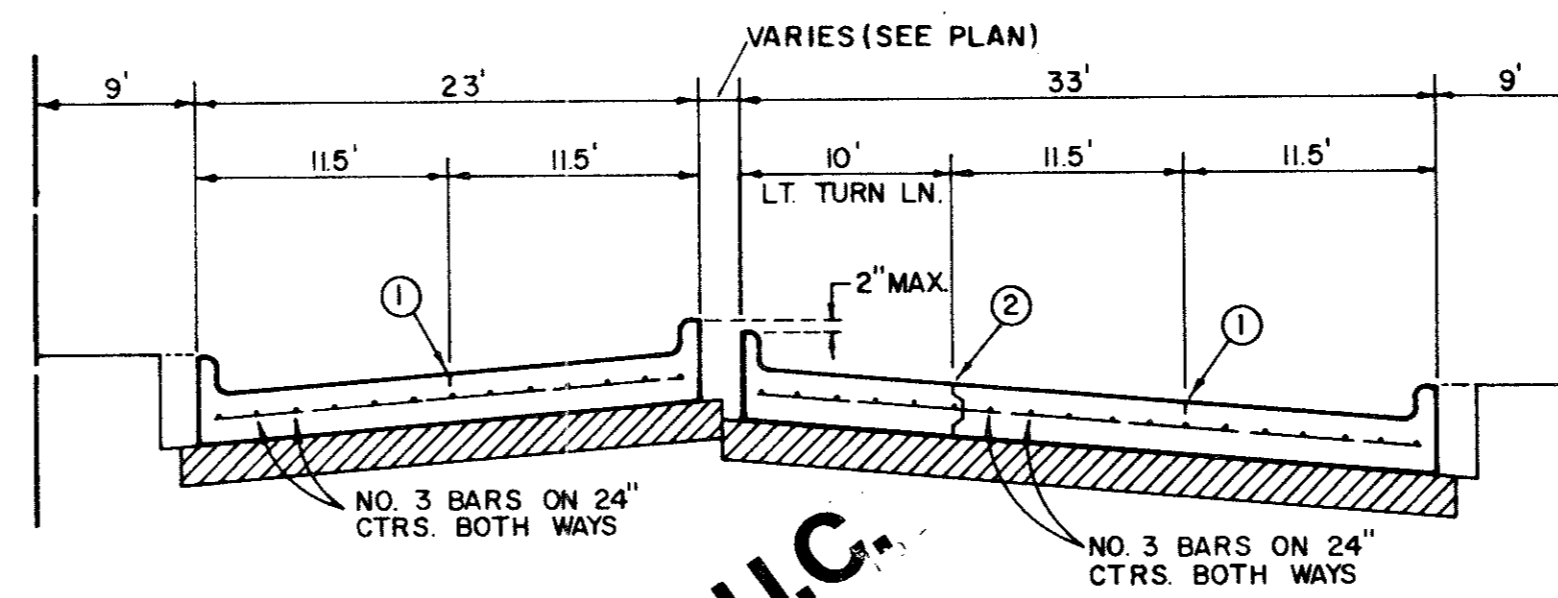
MIN. SLOPE 1/4' FT MAX SLOPE 3/4' FT UNLESS OTHERWISE DIRECTED BY ENGR. TYP. BOTH SIDES.



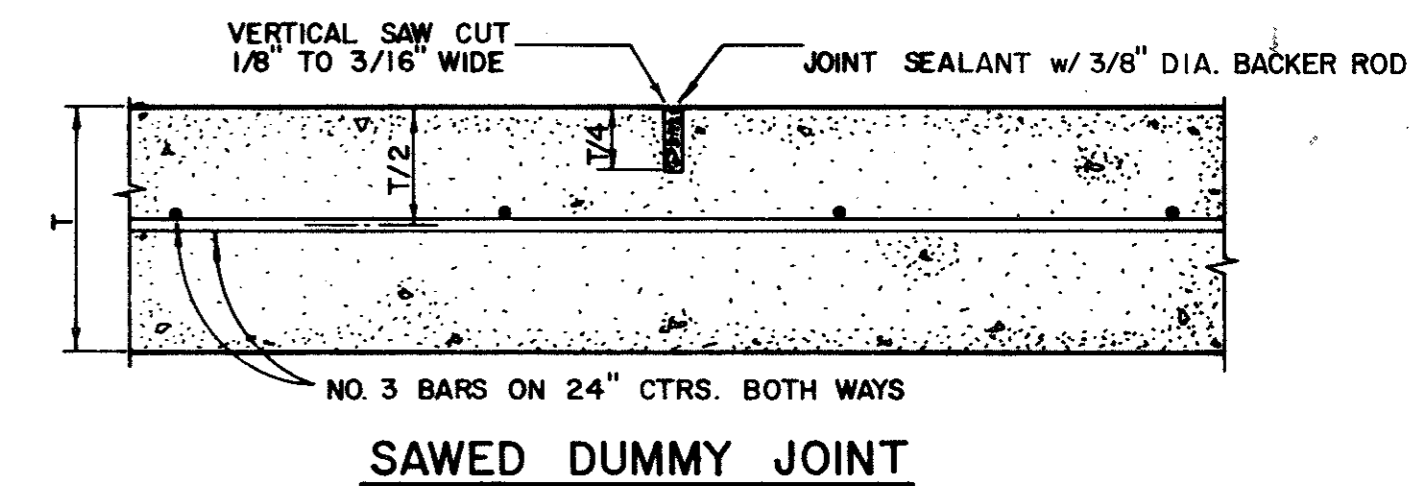
REGULAR SECTION



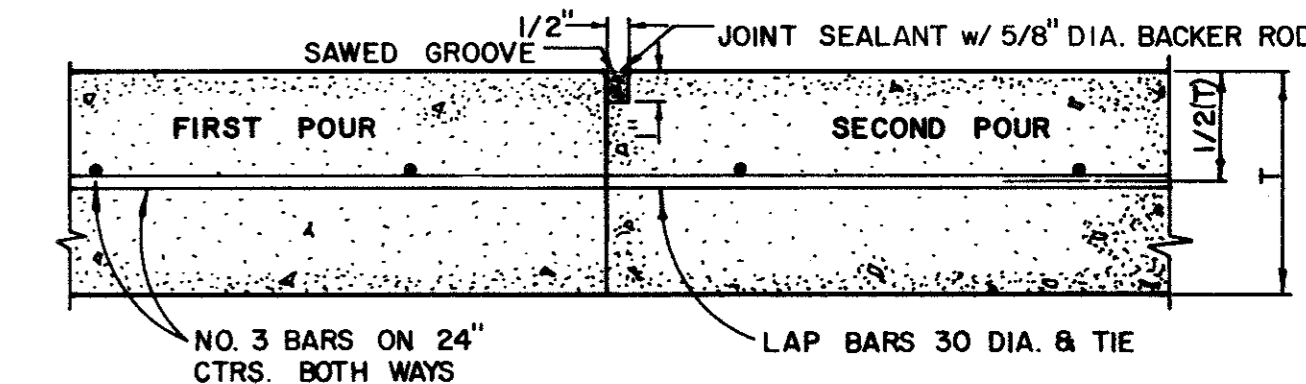
**N.I.C.**  
LEFT TURN SECTION  
MAJOR ARTERIAL



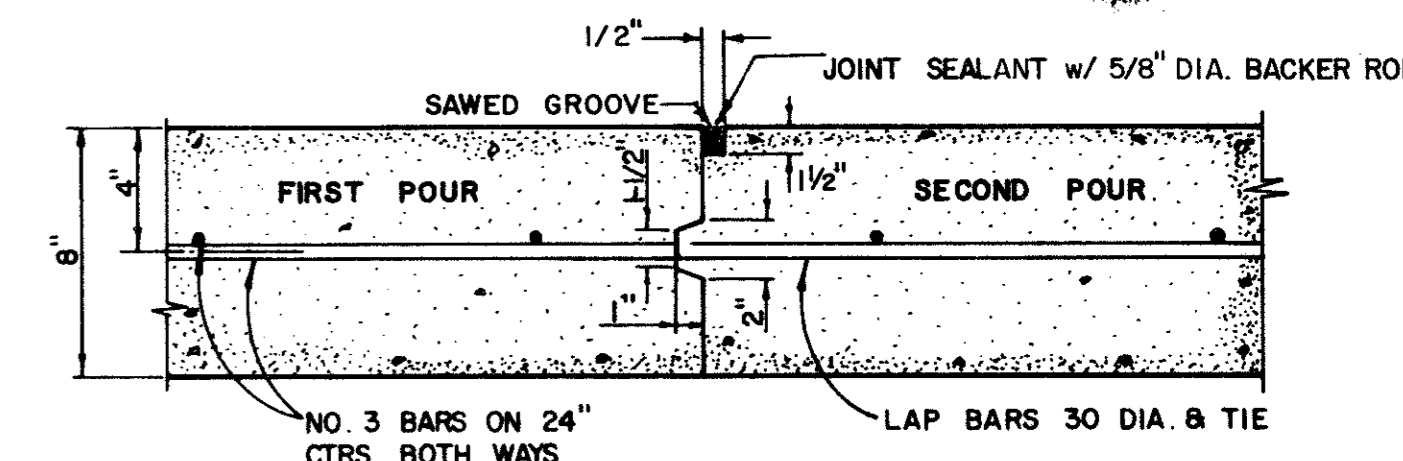
**N.I.C.**  
LEFT TURN SECTION  
MINOR ARTERIAL



SAWED DUMMY JOINT



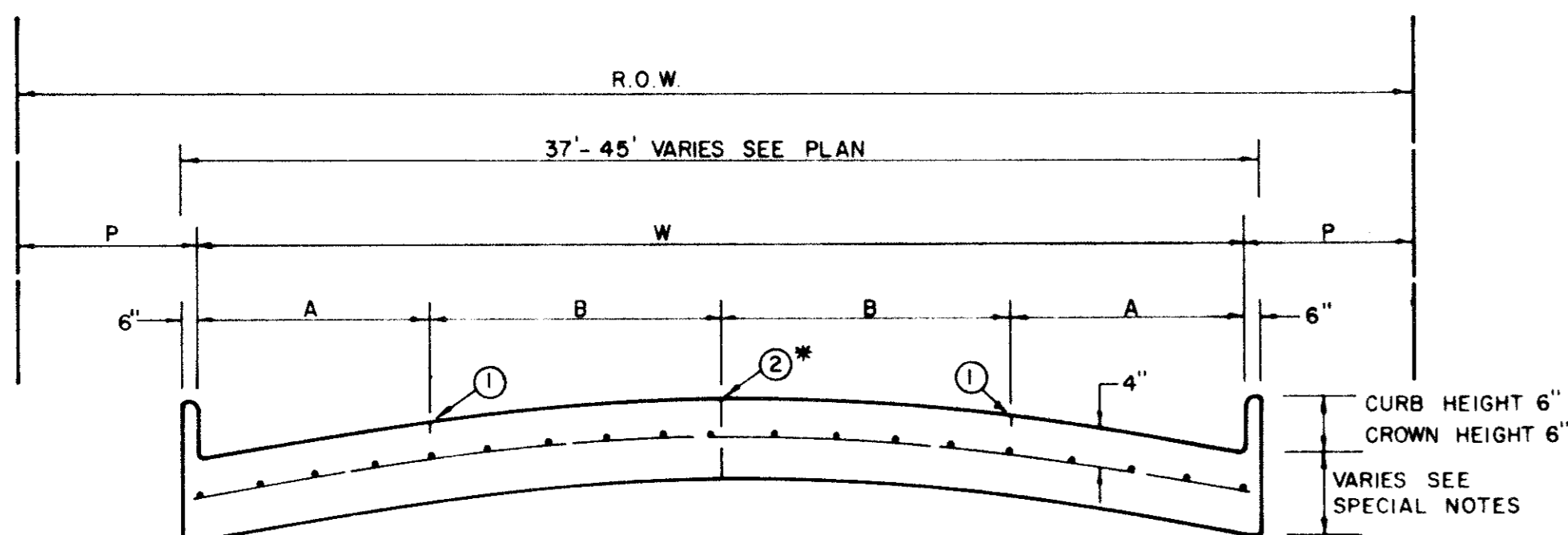
CONSTRUCTION JOINT FOR 6 INCH PAVEMENT



CONSTRUCTION JOINT FOR 8 INCH PAVEMENT

**GENERAL NOTES**

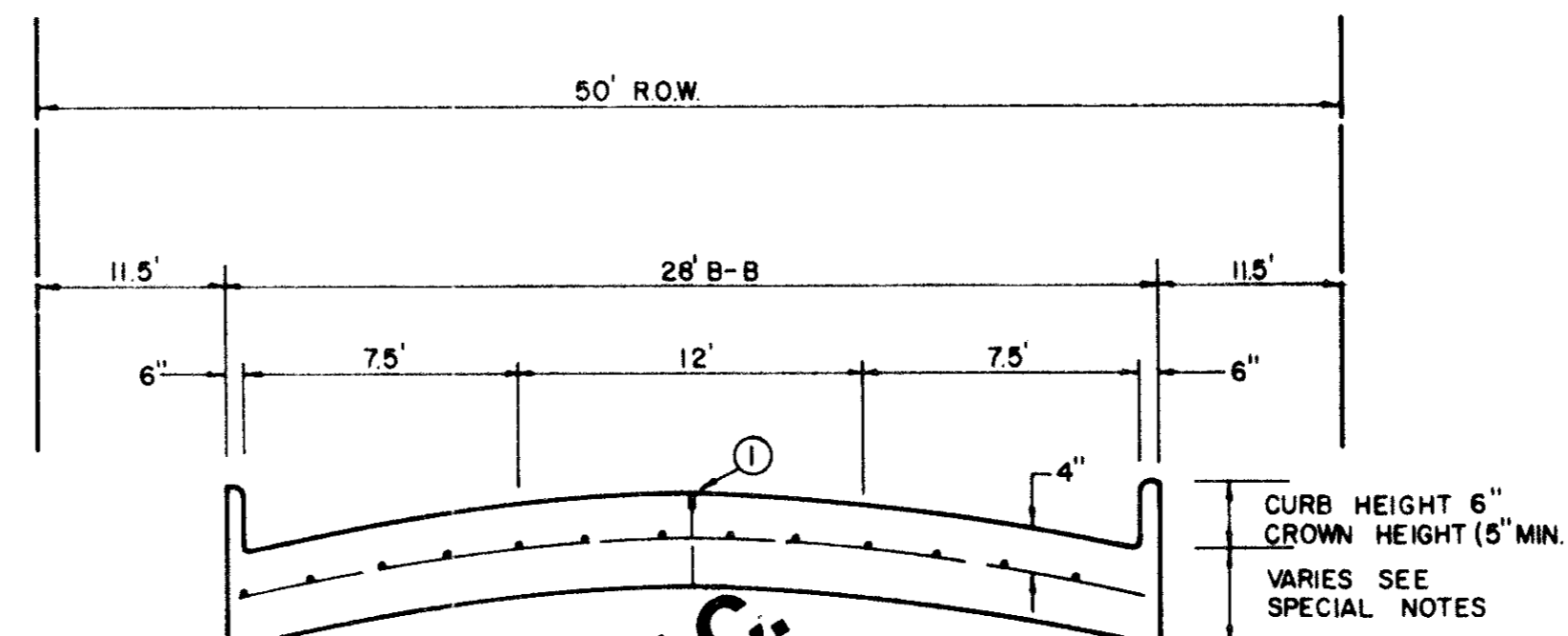
- A. GENERAL PAVEMENT THICKNESS FOR STREETS SHALL BE AS SPECIFIED BELOW IN SPECIAL NOTES.
- B. STANDARD SPECIFICATIONS REINFORCED CONCRETE PAVEMENTS
  1. ALL CURBS SHALL BE PLACED INTEGRAL WITH PAVEMENT
  2. CURBS SHALL MEET THE SAME COMPRESSIVE STRENGTH AS SPECIFIED FOR THE CONCRETE PAVEMENT.
  3. DETAIL AND ARRANGEMENT OF JOINTS, ALL TYPES, SHALL BE AS SHOWN ON THE STANDARD CONSTRUCTION DETAILS, OR AS APPROVED BY ENGINEER.
  4. BAR LAPS SHALL BE 30 DIAMETERS.
- C. SUBGRADE UNDER ALL PAVEMENT SHALL BE 6 INCHES THICK AND SHALL BE STABILIZED WITH 6 PERCENT BY WEIGHT OF HYDRATED LIME (27 LBS/S.Y.) AND COMPACTED TO A DENSITY NOT LESS THAN 95 PERCENT AS DETERMINED BY A.A.S.H.O. T-99. LABORATORY TESTS MAY BE SUBMITTED TO THE ENGINEER FOR APPROVAL TO LOWER AMOUNT OF LIME REQUIRED.
- D. BAR CHAIRS OR AN APPROVED SUPPORTING DEVICE SHALL BE FURNISHED.



FOUR MOVING LANES OR TWO MOVING LANES/TWO PARKING LANES

STREET TYPE	STREET WIDTH (W)	A	B	ROW WIDTH	P
COLLECTOR	36'	8'	10'	60'	11.5'
COLLECTOR	40'	8' OR 10'	10' OR 12'	60'	9.5'
COLLECTOR	44'	11'	11'	65'	10.0'

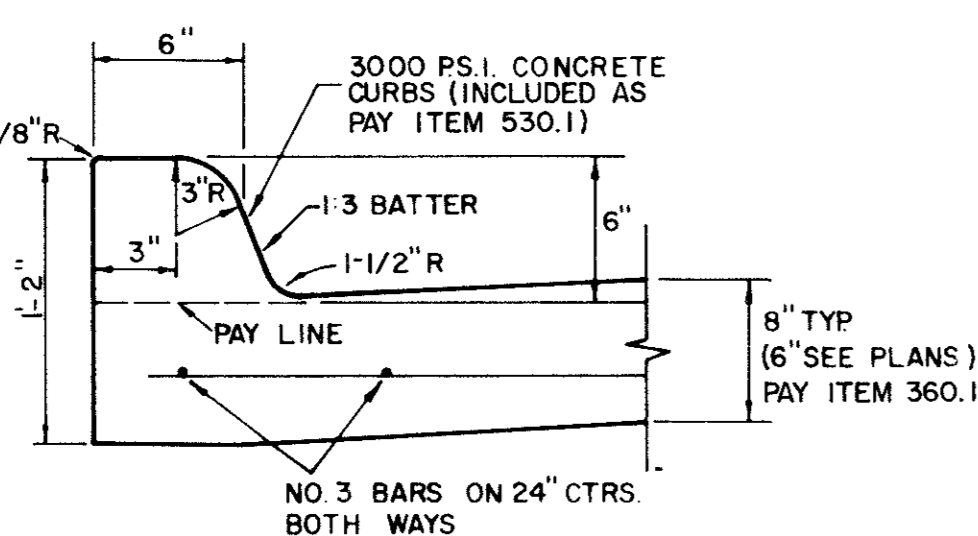
\* FULL WIDTH PAVEMENT OF 36' WIDTH STREETS IS ALLOWED WHERE APPROVED BY THE ENGINEER.



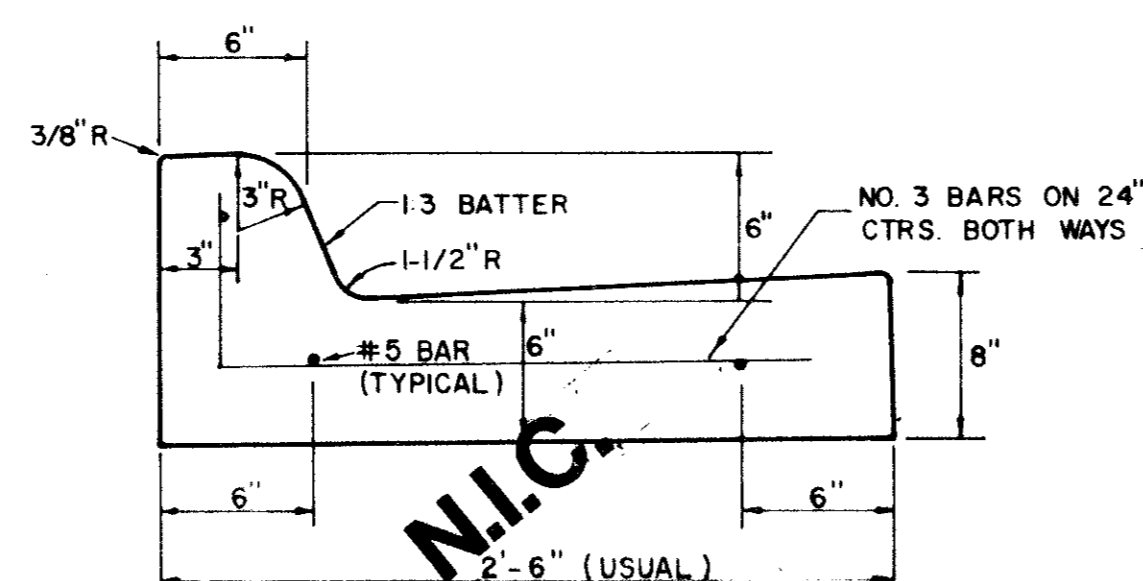
**N.I.C.**  
ONE MOVING LANE / TWO PARKING LANES  
LOCAL STREET

**REINFORCED CONCRETE PAVEMENT**

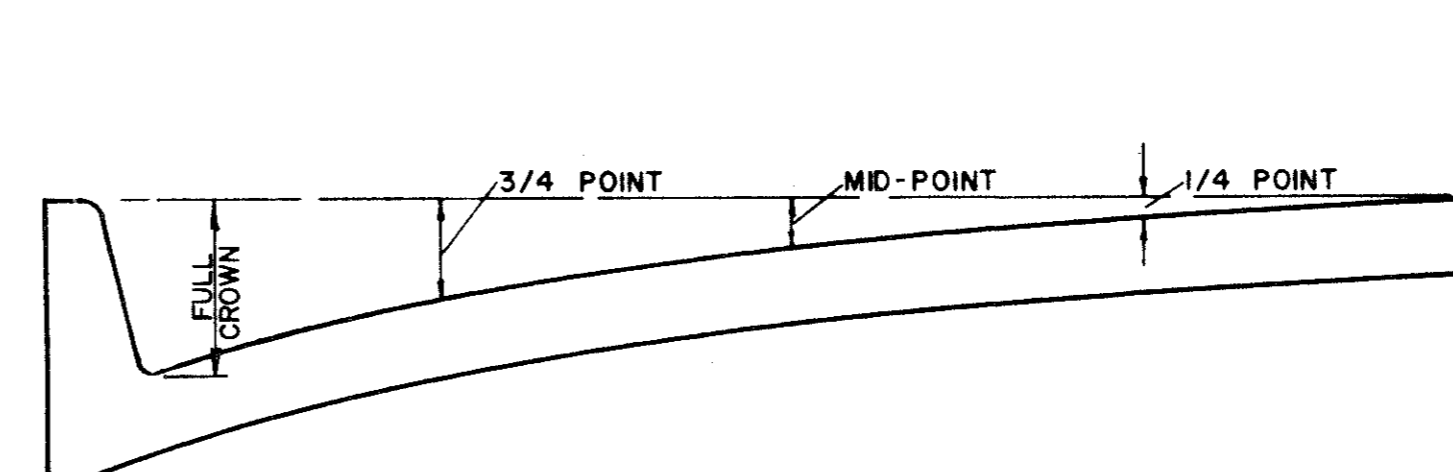
- ALL REINFORCING BARS SHALL BE NO. 3 TRANSVERSE BARS TO BE SPACED ON 2'-0" CENTERS, LONGITUDINAL BARS TO BE SPACED ON 2'-0" EXCEPT WHERE NOTED.
- UNDIVIDED STREETS—PROVIDE 4" DBL.-REF YELLOW & BUTON P-117-Y PATTERNS TO BE ESTABLISHED BY ENGINEER. SEE DETAIL SHEET
- ① SAWED LONGITUDINAL DUMMY JOINT.
- ② CONSTRUCTION JOINT (FULL WIDTH PAVT IS ALLOWED WHERE APPROVED BY ENGINEER.
- ③ FINISH SHALL BE TRANSVERSE WITH TRAFFIC LANES AND SHALL BE STEEL TINED BROOM FINISH.



INTEGRAL CURB

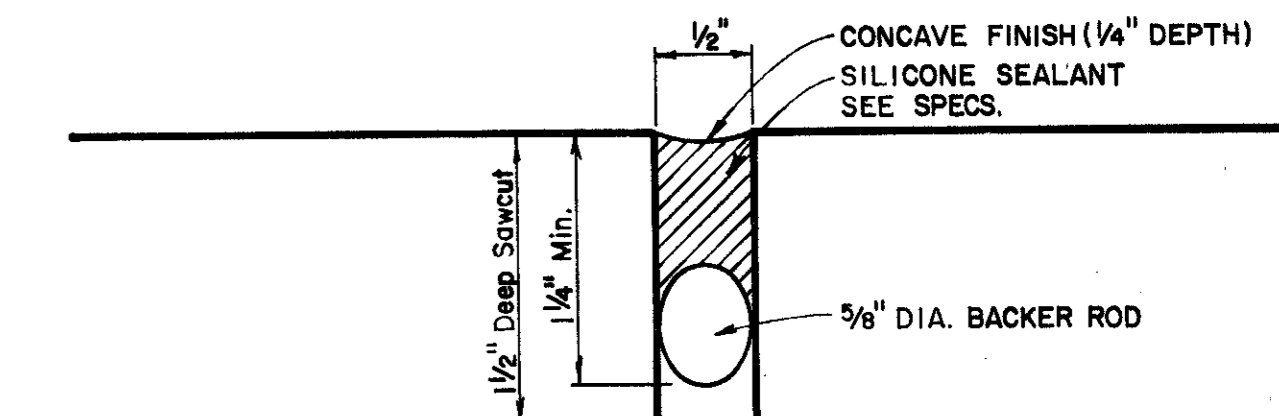


SEPARATE CURB AND GUTTER



ROADWAY WIDTH (W)	TOTAL CROWN HEIGHT	3/4 POINT	MID-POINT	1/4 POINT
26'	6"	3 - 3/8"	1 - 1/2"	3/8"
36'	6"	3 - 3/8"	1 - 1/2"	3/8"
44'	6"	3 - 3/8"	1 - 1/2"	3/8"
48'	6"	3 - 3/8"	1 - 1/2"	3/8"

TABLE OF CROWN HEIGHTS AND ORDINATES FOR VARIOUS PARABOLIC SECTIONS



TYPICAL JOINT DETAIL



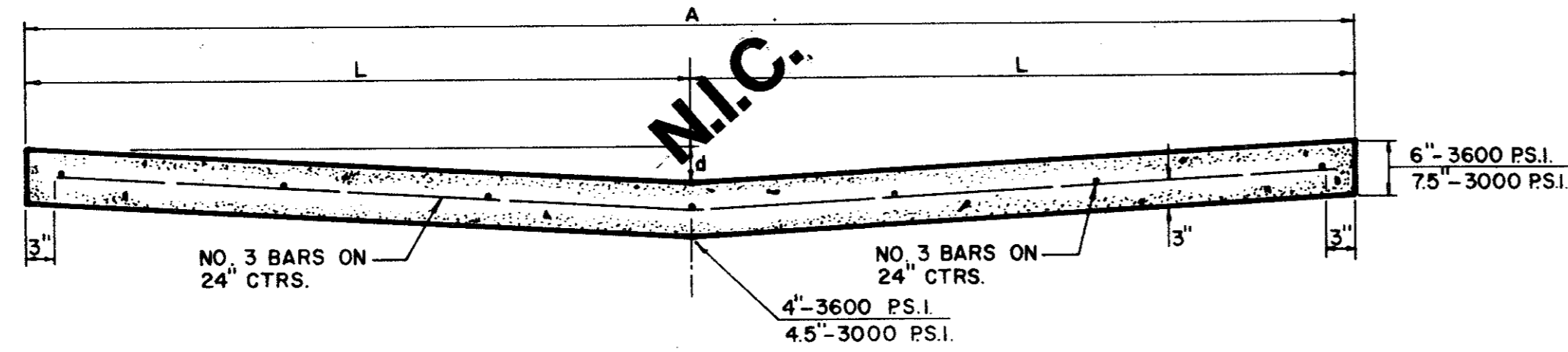
No.	Revision	By	Date
<b>STANDARD CONSTRUCTION DETAILS PAVING</b>			
<b>STREET CROWNS &amp; JOINTS</b>			
<b>GINN, INC.</b>			
Consulting Engineers Dallas, Texas			
Designed -	Drawn -	Date - June, 1990	Job No. - 90439
Approved -	Checked -	Scale -	Sheet M4 of 12



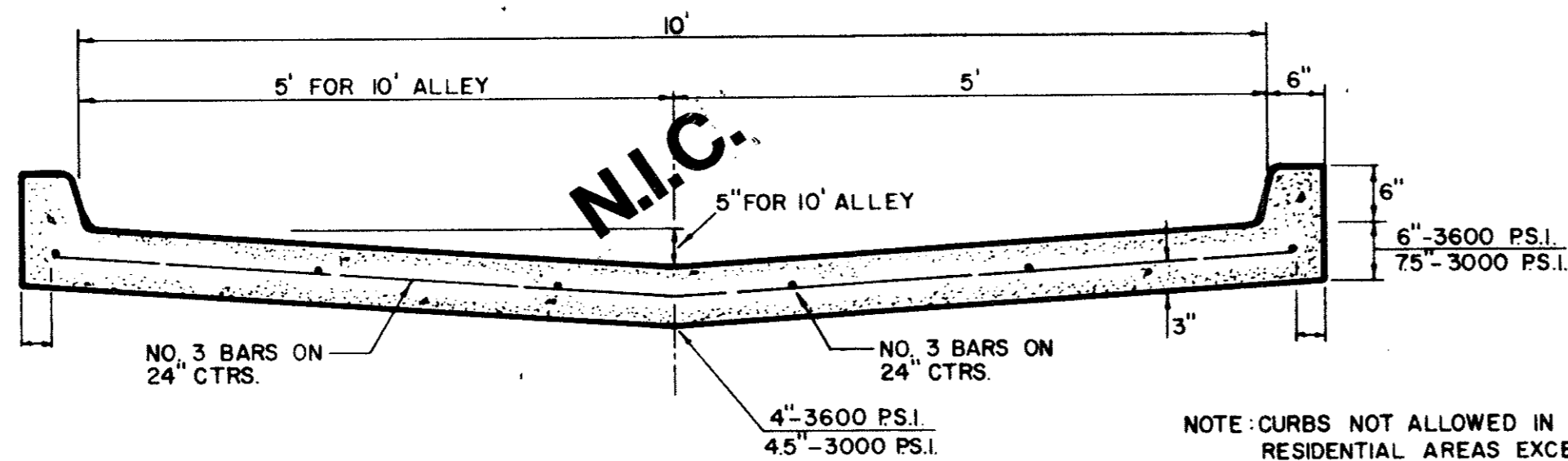




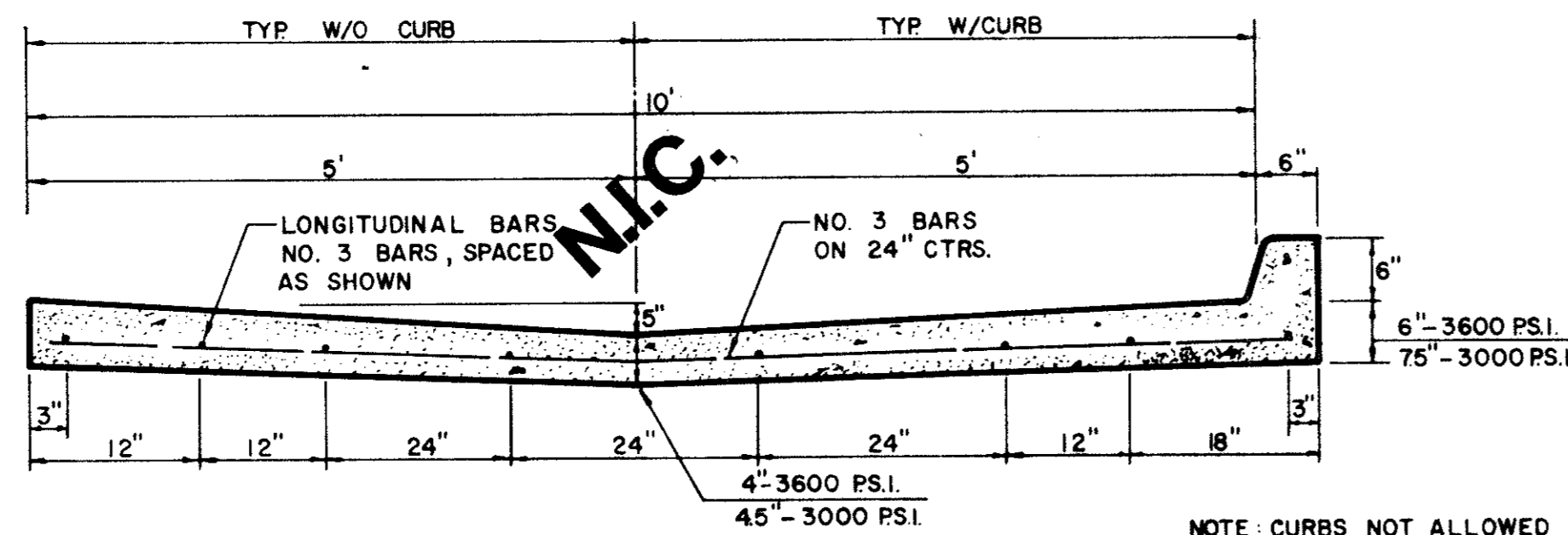
ALLEY WIDTH (A)	HALF SECTION WIDTH (L)	INVERT DEPTH (d)
10'	5'	5"
12'	6'	6"
16'	8'	6"
20'	10'	6"



STANDARD 10', 12', 16', & 20' ALLEY SECTION

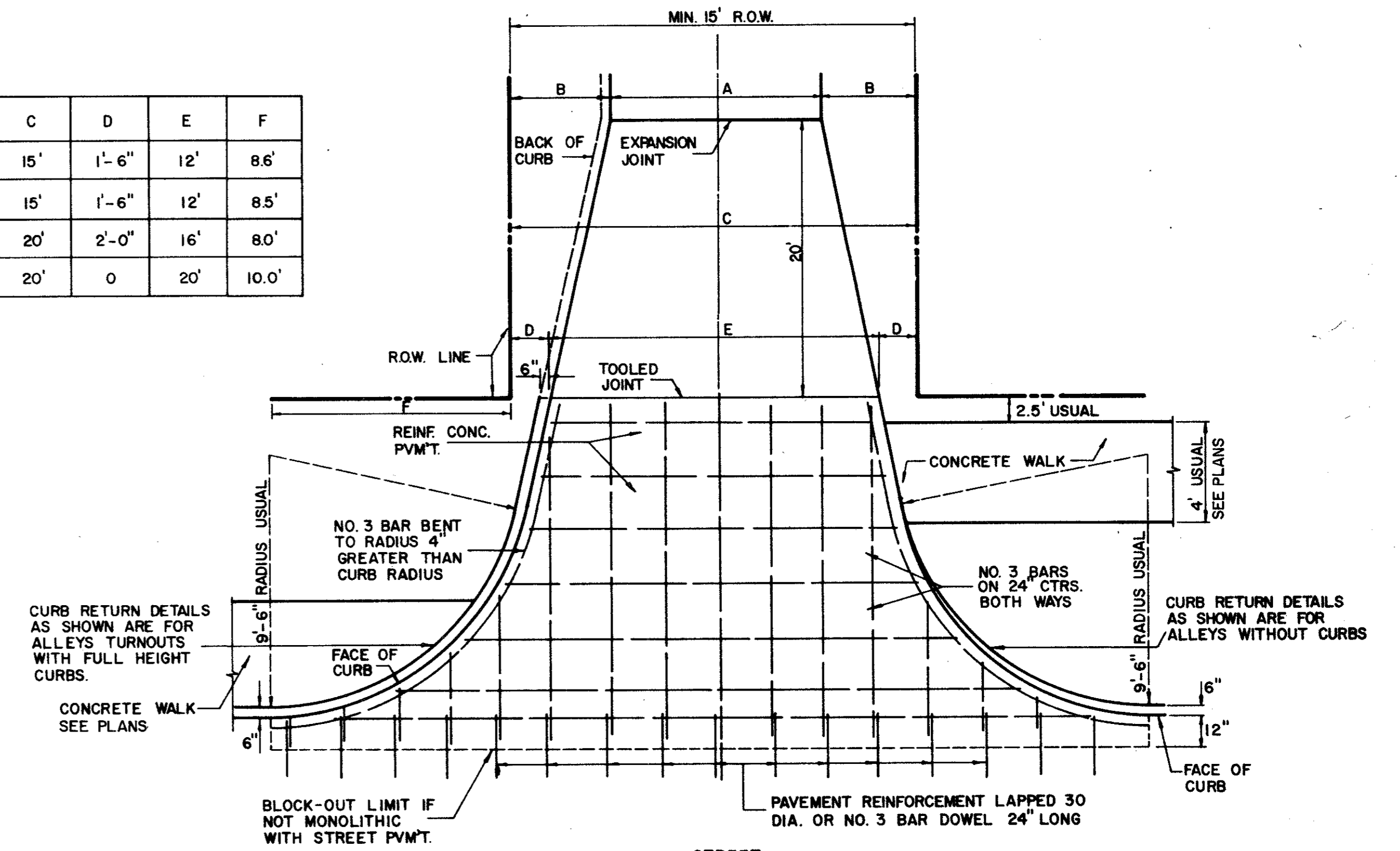


STANDARD ALLEY SECTION WITH CURBS

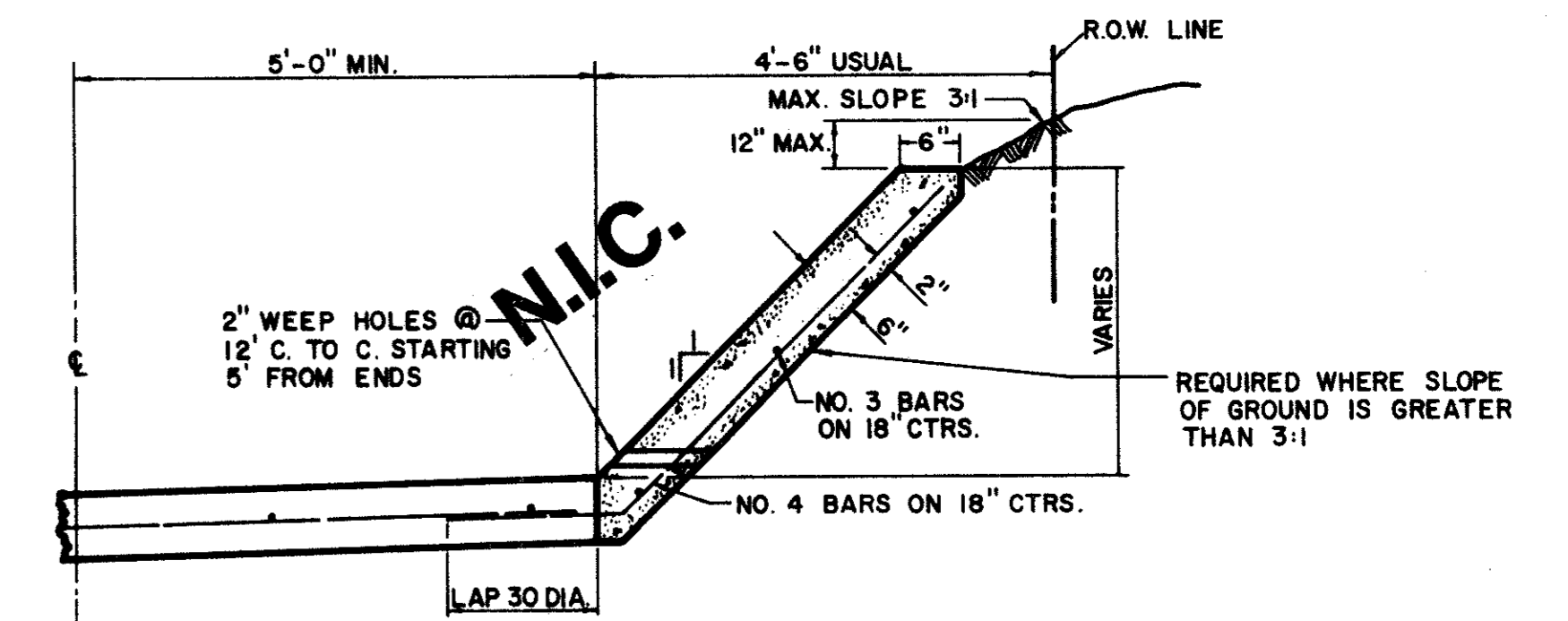


ALTERNATE 10' ALLEY SECTION / CURB

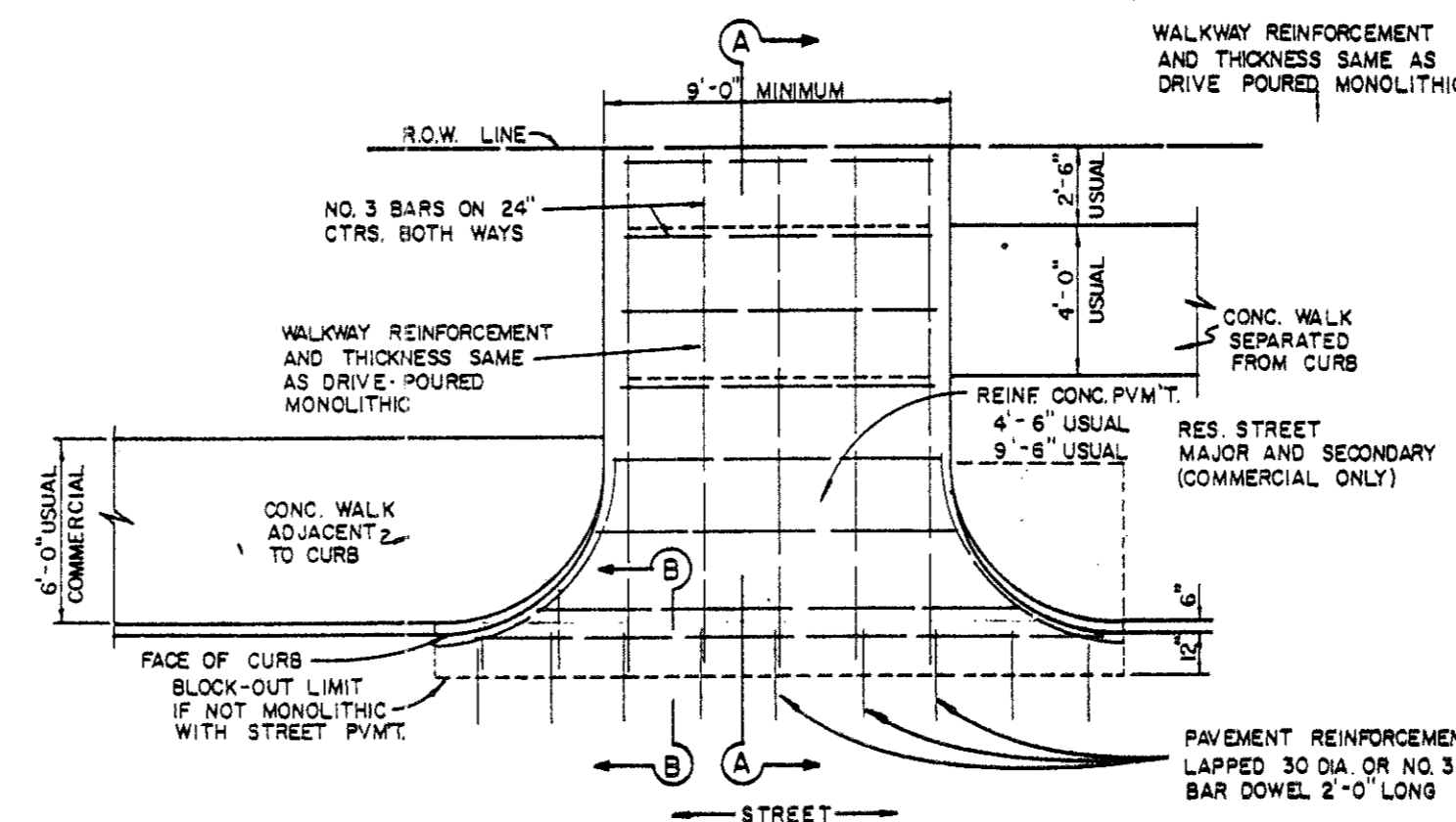
ALLEY WIDTH	A	B	C	D	E	F
10'	10'	2'-6"	15'	1'-6"	12'	8.6'
12'	12'	1'-6"	15'	1'-6"	12'	8.5'
16'	16'	2'-0"	20'	2'-0"	16'	8.0'
20'	20'	0	20'	0	20'	10.0'



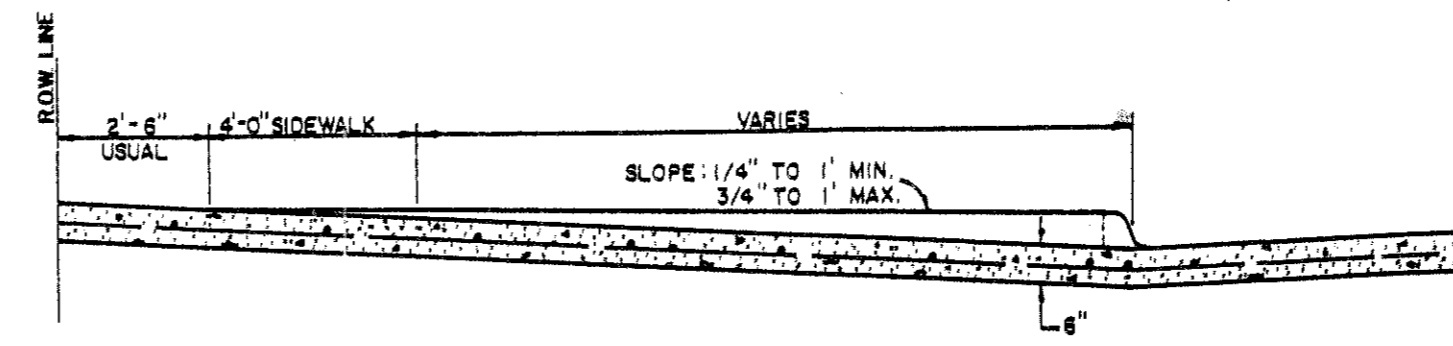
ALLEY RETURN DETAILS  
FOR DETAILS ONLY-SEE PLAN FOR DIMENSIONS



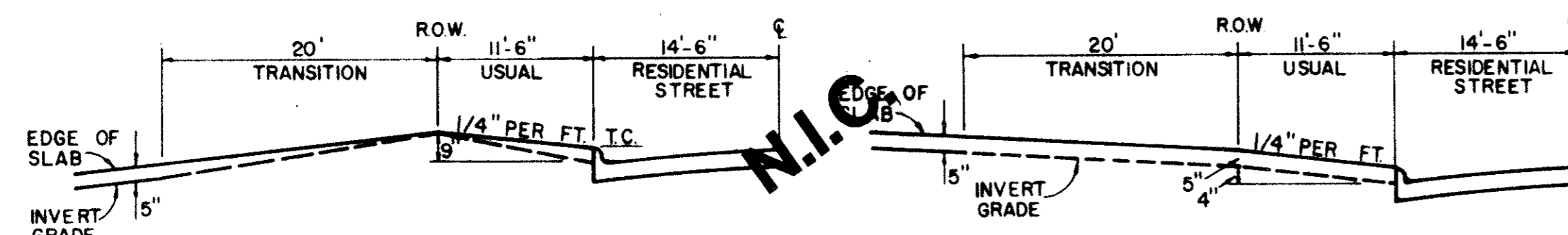
ALLEY SLOPE PROTECTION



DRIVEWAY RETURN TO STREET



SECTION A-A  
SECTION B-B  
DRIVEWAY RETURN DETAILS



TYPE I ALLEY ENTRANCE

TYPE II ALLEY ENTRANCE

GENERAL NOTES FOR ALLEYS AND DRIVEWAYS

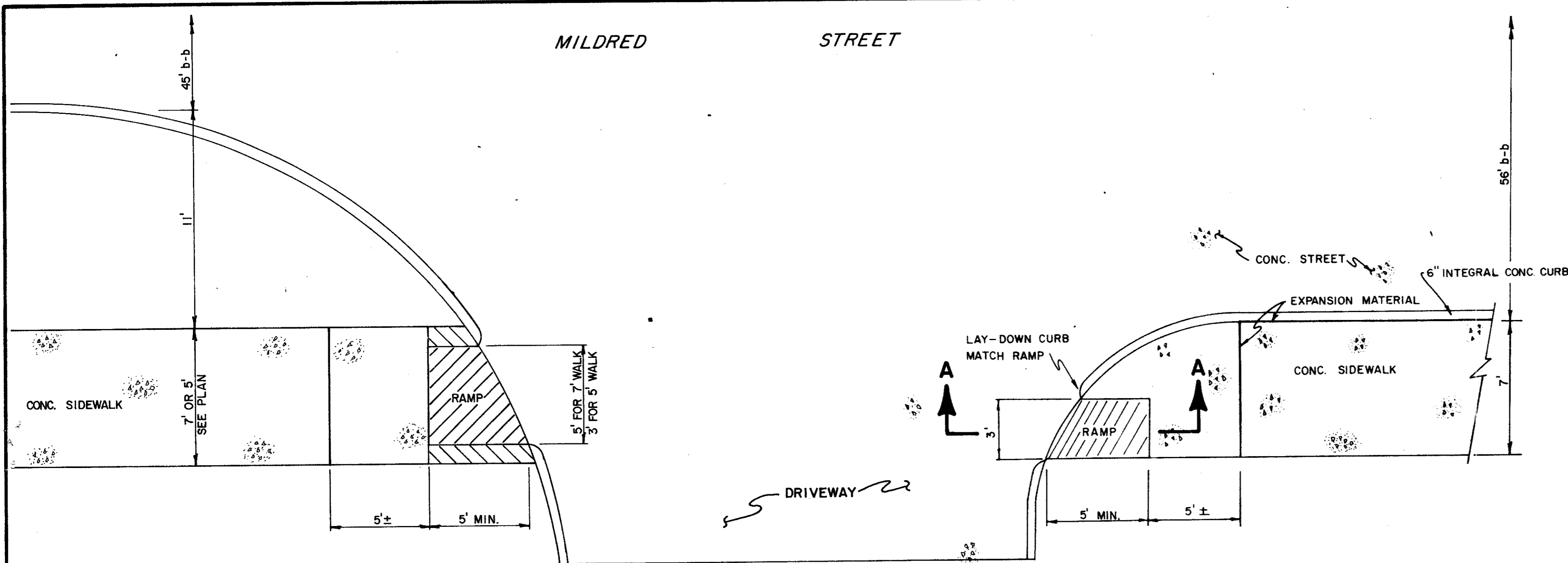
1. CONCRETE FOR ALLEY RETURNS AND DRIVEWAYS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS IDENTICAL TO THAT SPECIFIED FOR THE STREET PAVEMENT OR BASE WHEN BUILT AS COMPONENTS OF A CONCRETE PAVING PROJECT WHEN BUILT SEPARATELY, THE STRENGTH SHALL BE AS SPECIFIED ON THE CONSTRUCTION PLANS.
2. CONCRETE FOR ALLEY PAVEMENT SHALL BE OF THE STRENGTH SPECIFIED ON THE CONSTRUCTION PLANS. (3000 P.S.I. OR 3600 P.S.I. MINIMUM COMPRESSIVE)
3. SPACING AND CONSTRUCTION OF JOINTS SHALL CONFORM TO STREET PAVEMENT DETAILS.



No.	Revision	By	Date
<b>STANDARD CONSTRUCTION DETAILS PAVING</b>			
<b>ALLEY &amp; DRIVEWAY RETURNS</b>			
<b>GINN, INC.</b>			
Consulting Engineers Dallas, Texas			
Designed -	Drawn -	Date - June, 1990	Job No. - 90439
Approved -	Checked -	Scale -	Sheet M6 of 12

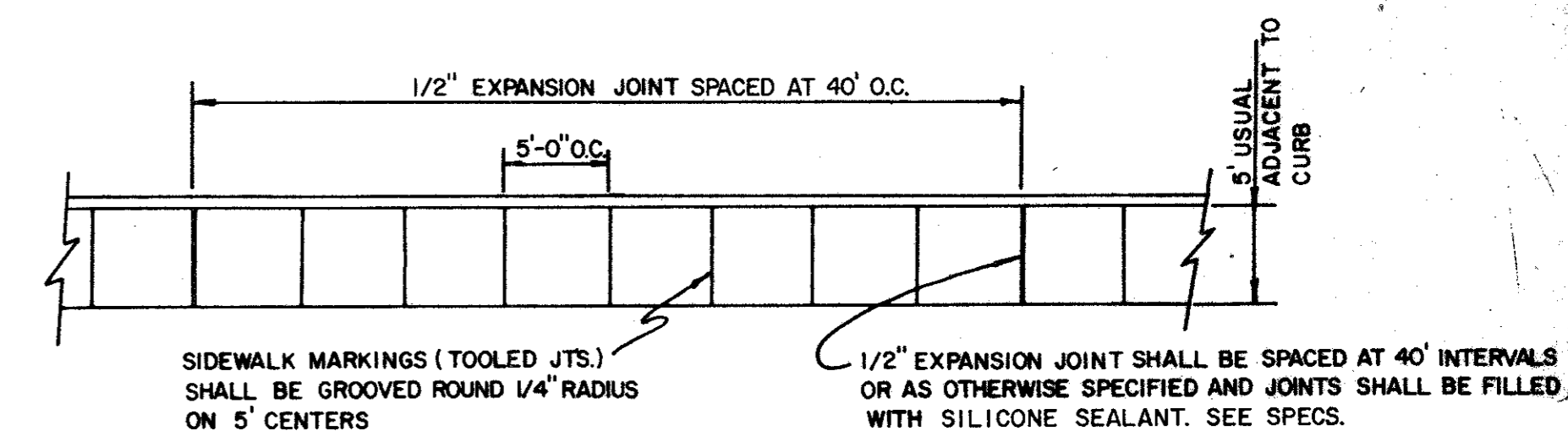
SD4



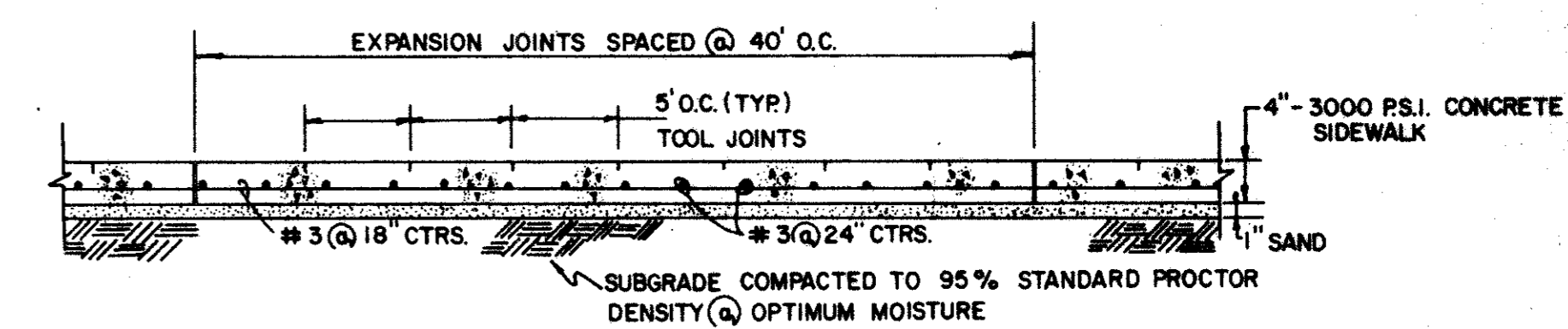


**PLAN**

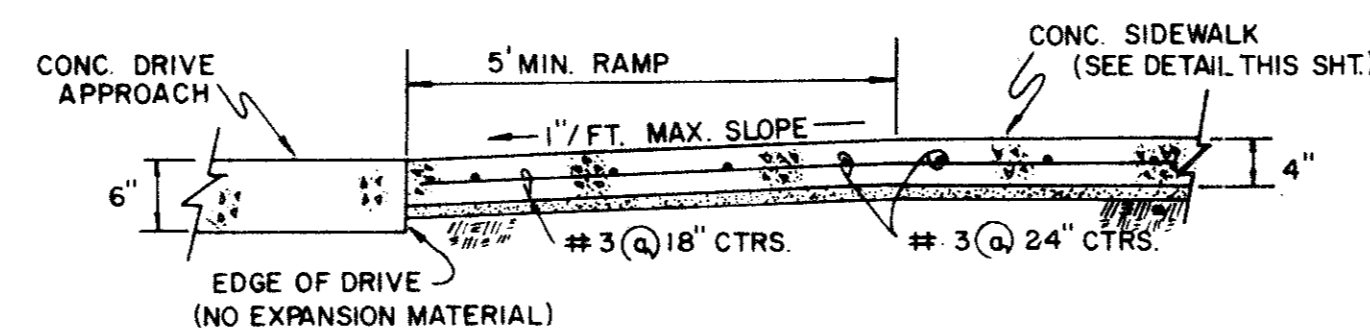
NOTE:  
MODIFY RAMP TO  
FIT DIFFERENT RADIUS



**PLAN**

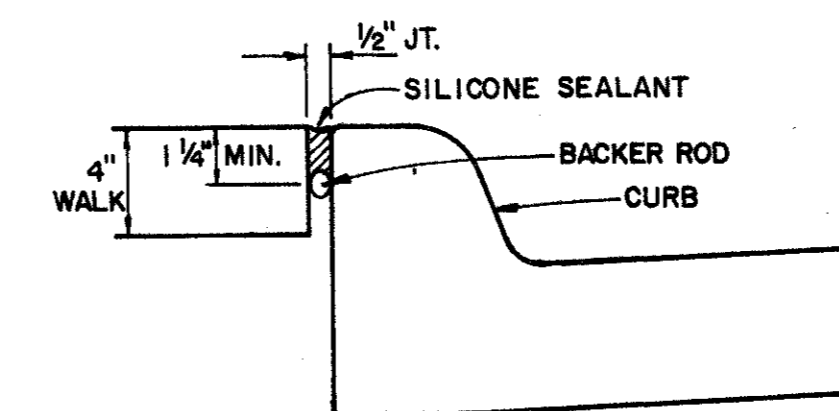


**SIDE ELEVATION**

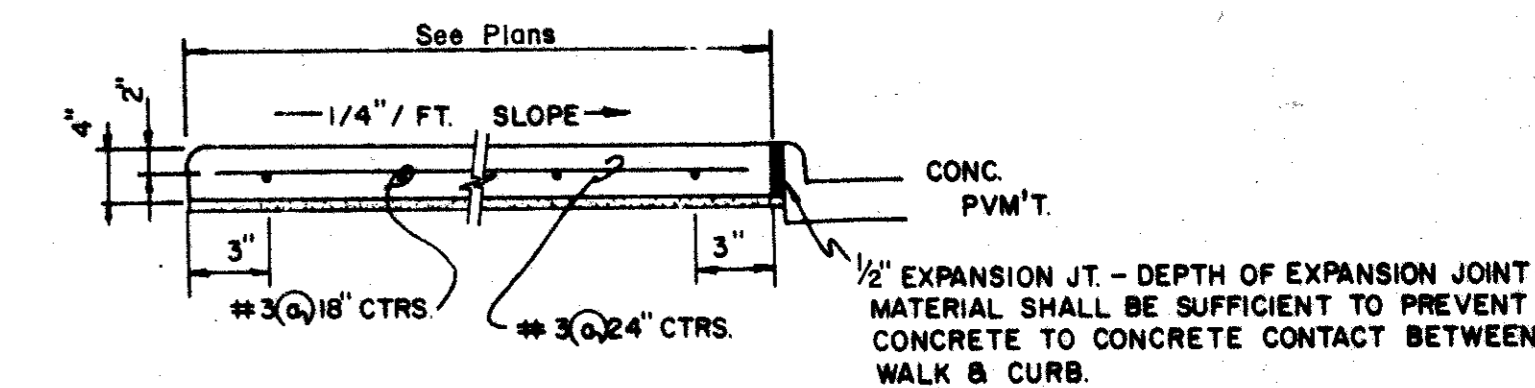


**SECTION A-A**

**BARRIER FREE RAMP DETAIL  
WITH WALK ADJACENT TO CURB**



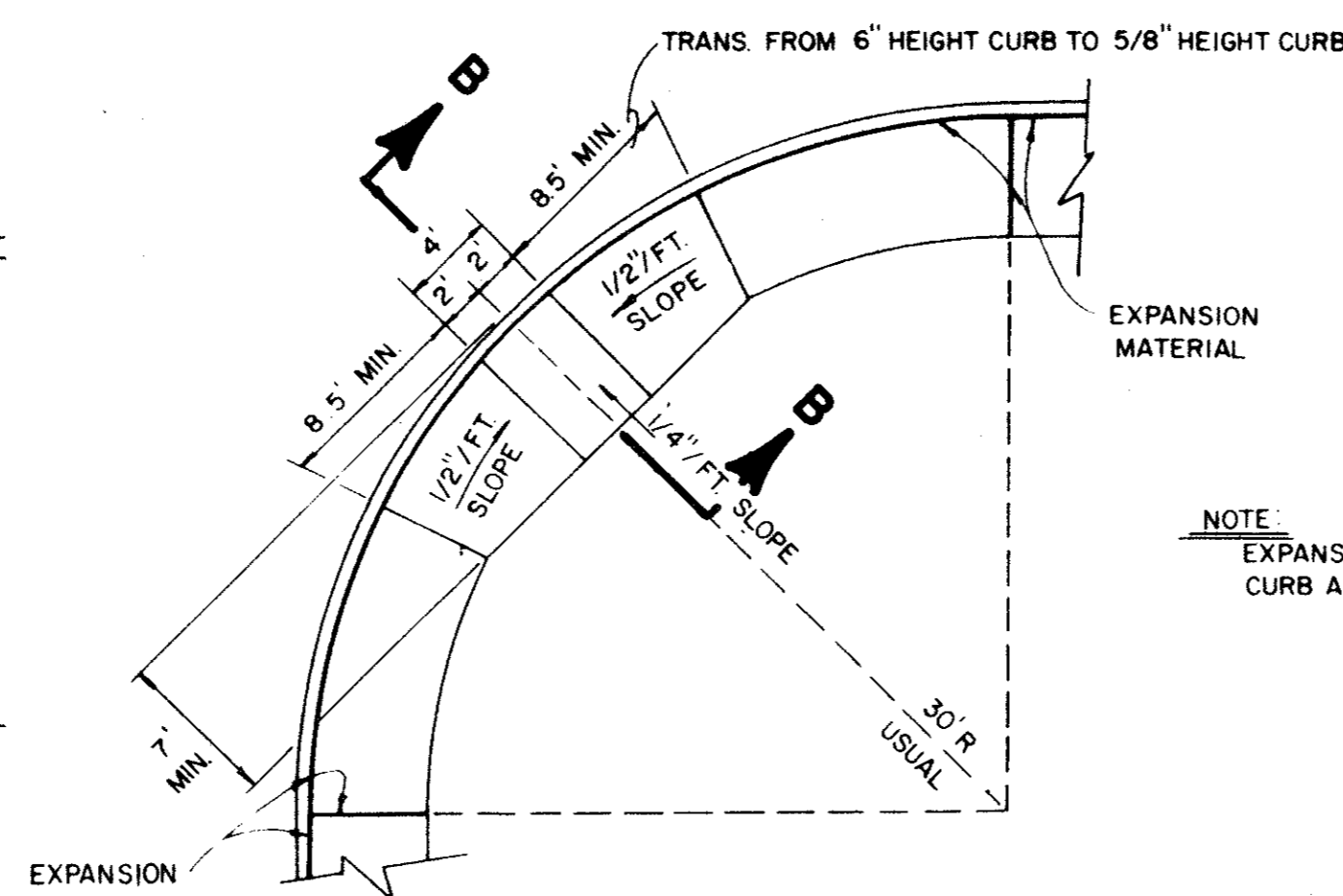
**EXPANSION JOINT DETAIL**



**SECTION**

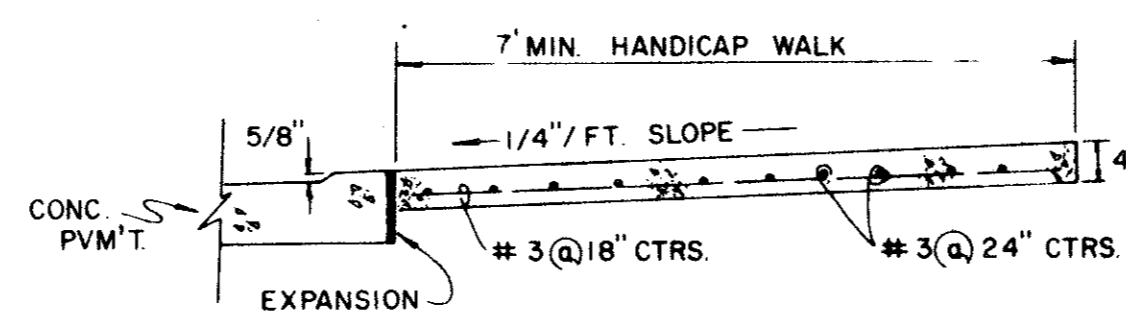
**CONCRETE SIDEWALK DETAIL**

ADDISON ROAD



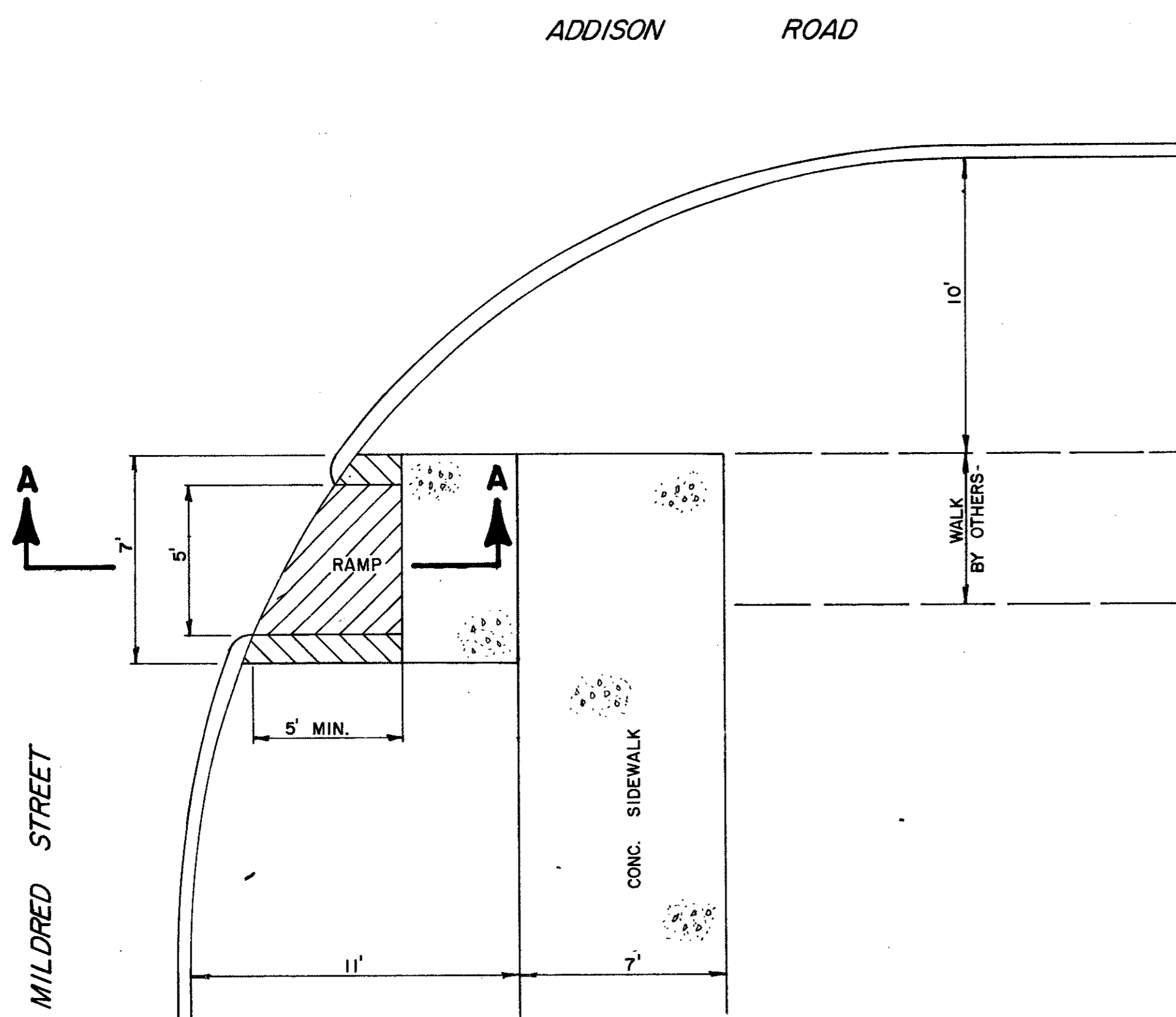
**PLAN**

NOTE:  
EXPANSION MATERIAL ALONG  
CURB AND AT CURB RETURNS



**SECTION B-B**

**HANDICAP ROLL-DOWN CURB DETAIL**



**BARRIER FREE RAMP DETAIL  
WITH WALK SEPARATE FROM CURB**

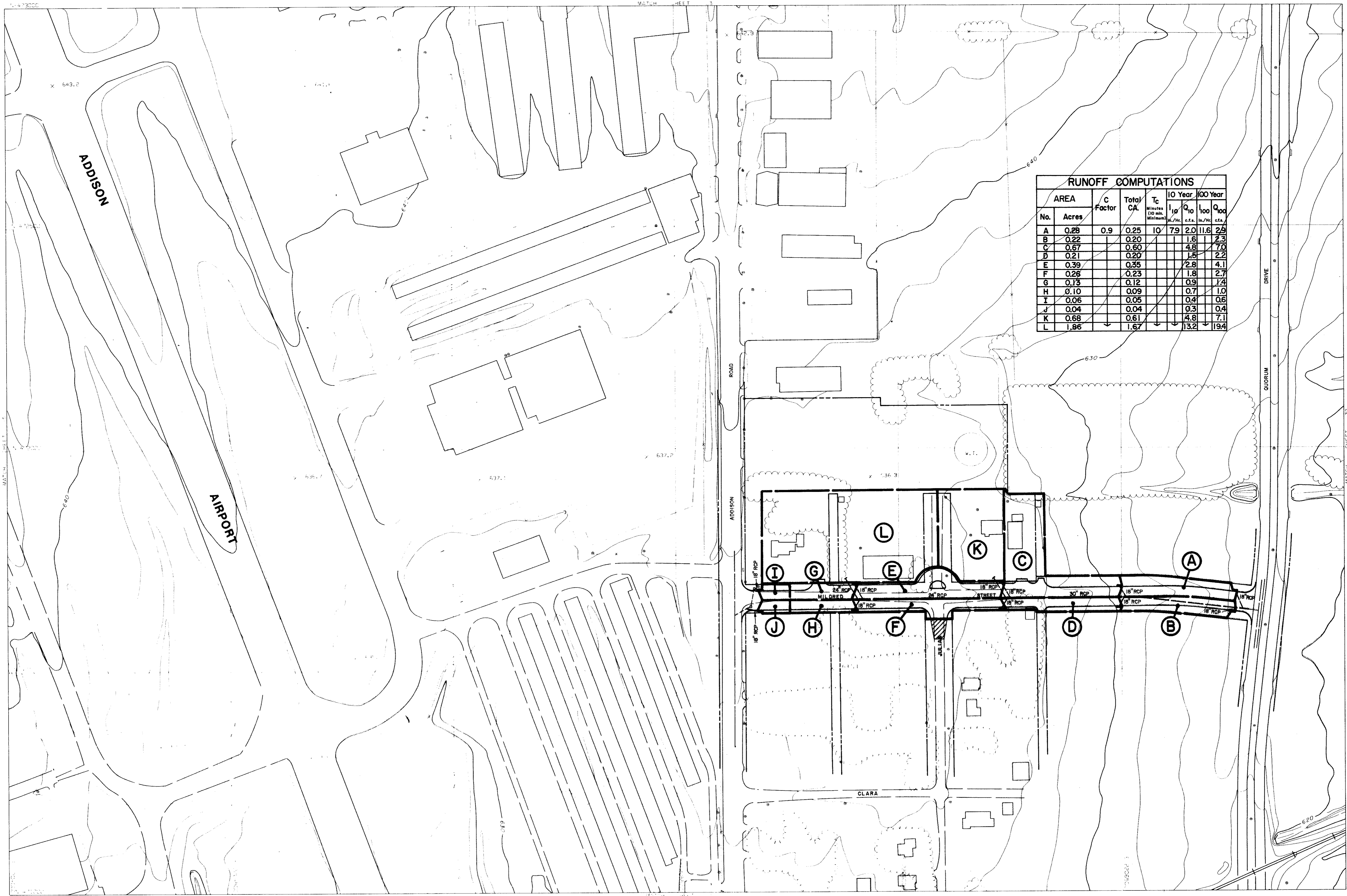
**GENERAL NOTES**

- Reinforced concrete sidewalk shall be 5 or 7 feet wide, a minimum of four (4) inches thick and shall be 3000 psi at 28 days (5 sack mix). Unless noted otherwise.
- Chamfer all exposed edges of concrete (1/4) inch.
- All bar dimensions are given as center to center of bars and are located as shown.
- All reinforcing steel shall be No. 3 on 18 inch centers longitudinally, 24 inch centers transversely and shall conform to the requirements of ASTM A-615, Grade 60.
- 1" thick min. fine, washed sand cushion shall be free from organic materials or clays and shall be used for grade adjustment.
- Subgrade shall be compacted to a density not less than 95% at optimum moisture.
- Tooled joints (contraction joints) shall be on five (5) foot centers and shall be round one-fourth (1/4) inch radius.
- A one-half (1/2) inch expansion joint shall be placed every eight (8) tooled joints, and where works abut old work, or where new work is constructed adjacent to other concrete, a one-half inch expansion joint shall be used where sidewalk is adjacent to curb, the expansion joint shall be made of pre-molded bituminous expansion joint filler or redwood with silicone sealant. See Specs.
- Sidewalks shall be finished by lightly brooming surface transversely to direction of main traffic or where adjacent sidewalks differ from this standard, new sidewalks shall conform to adjacent sidewalk (e.g. exposed aggregate).
- Cross slope walk one-fourth (1/4) inch per foot towards curb or as shown on the drawings to provide drainage.



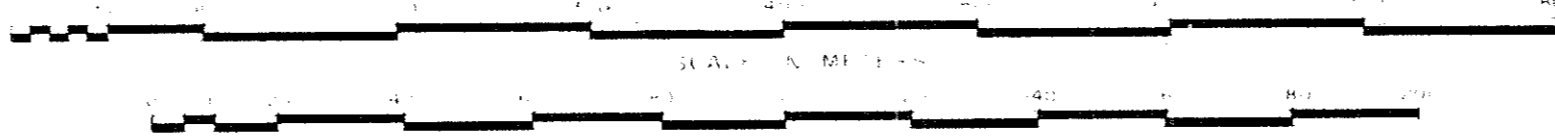
NO.	REVISION	BY	DATE
<b>TOWN OF ADDISON, TEXAS DEPARTMENT OF ENGINEERING</b>			
<b>STANDARD CONSTRUCTION DETAILS PAVING</b>			
<b>SIDEWALKS &amp; RAMPS</b>			
APPROVED _____		H. WAYNE GINN, P.E.	
DATE	June, 1990	SHEET SD-7A	





RUNOFF COMPUTATIONS								
No.	AREA Acres	C Factor	Total CA	T <sub>c</sub> Minutes (10 min. Minimum)	10 Year		100 Year	
					Q <sub>10</sub> c.f.s.	Q <sub>100</sub> c.f.s.	Q <sub>10</sub> in./hr.	Q <sub>100</sub> in./hr.
A	0.28	0.9	0.25	10	7.9	2.0	11.6	2.9
B	0.22		0.20			1.6	2.3	
C	0.67		0.60			4.8	7.0	
D	0.21		0.20			1.5	2.2	
E	0.39		0.35			2.8	4.1	
F	0.26		0.23			1.8	2.7	
G	0.13		0.12			0.9	1.4	
H	0.10		0.09			0.7	1.0	
I	0.06		0.05			0.4	0.6	
J	0.04		0.04			0.3	0.4	
K	0.68		0.61			4.8	7.1	
L	1.86		1.67			13.2	19.4	

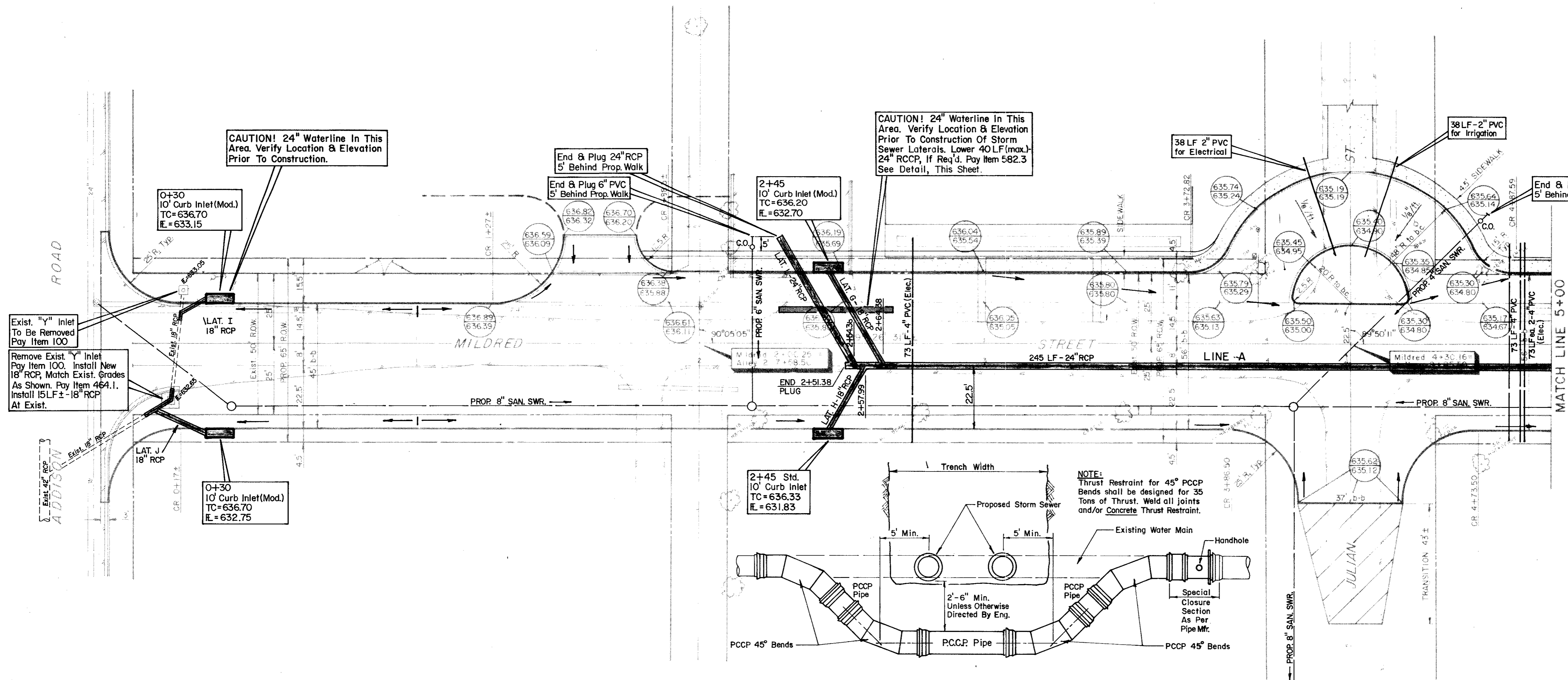
REVISIONS AUG 1988  
 Compiled from aerial photographs taken February 25, 1986, with the Wild RC-8 camera. Horizontal and vertical control was extended from existing U.S. Coast and Geodetic Survey monuments. Further densification was performed by Aero Tranquation using the Wild BC-1 Aviolet.



Grid lines and values shown are based on the Texas State Coordinate System, North Central Zone.

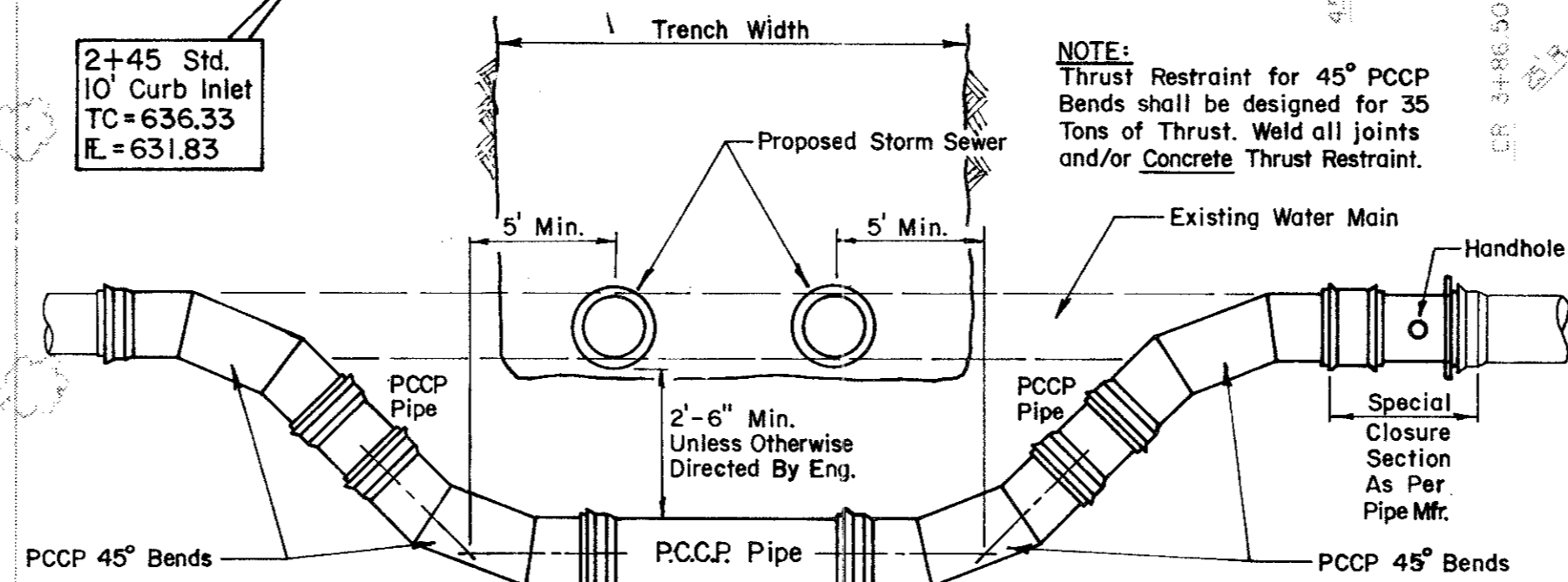


TOWN OF ADDISON, DALLAS COUNTY, TEXAS *As Built*  
**MILDRED STREET IMPROVEMENTS**  
**DRAINAGE AREA MAP**  
 GINN, INC.  
 Consulting Engineers Dallas, Texas  
 Designed - TEC Drawn - TEC Date - June, 1990 Job No. - 90439  
 Approved - HWG Checked - GF Scale - 1" = 100' Sheet MS of 12

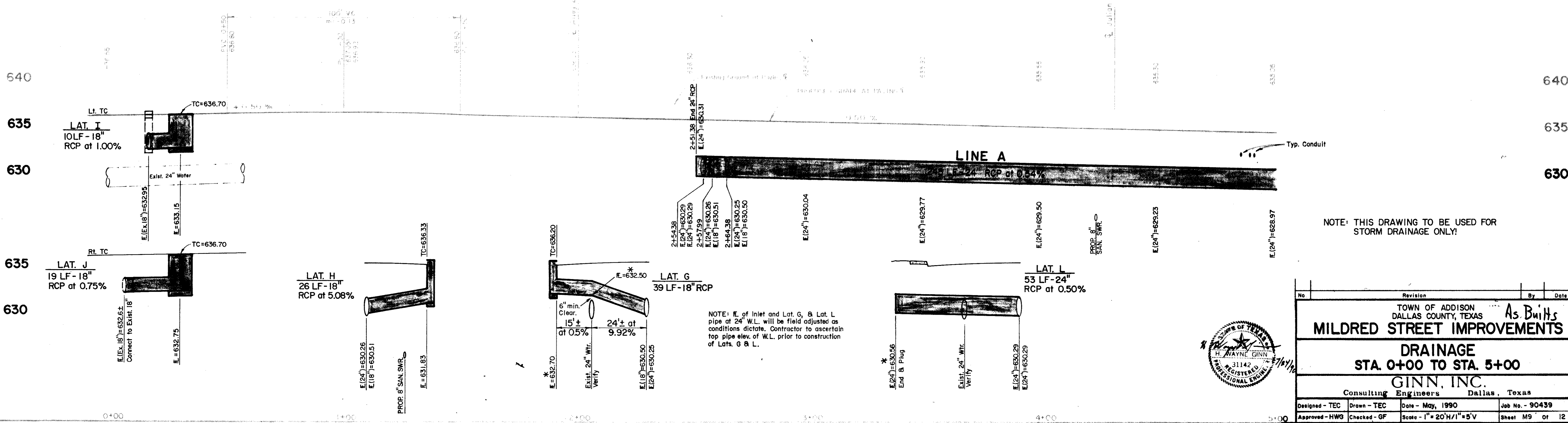


NOTE: All PVC Conduit (Electrical or Irrigation) shall have long radius sweeps with ends terminating 6" above existing ground. Provide PVC cap glued in place. Place conduit minimum 36" deep below finish grade of pavement. See specs. for additional information.

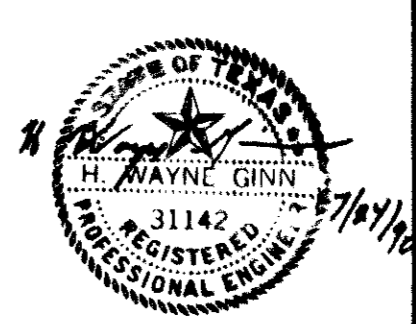
B.M. - "□" on edge of Conc. Apron at  $\odot$  of Doorway of Water Tower. Elev. 638.66



**WATER MAIN LOWERING DETAIL**



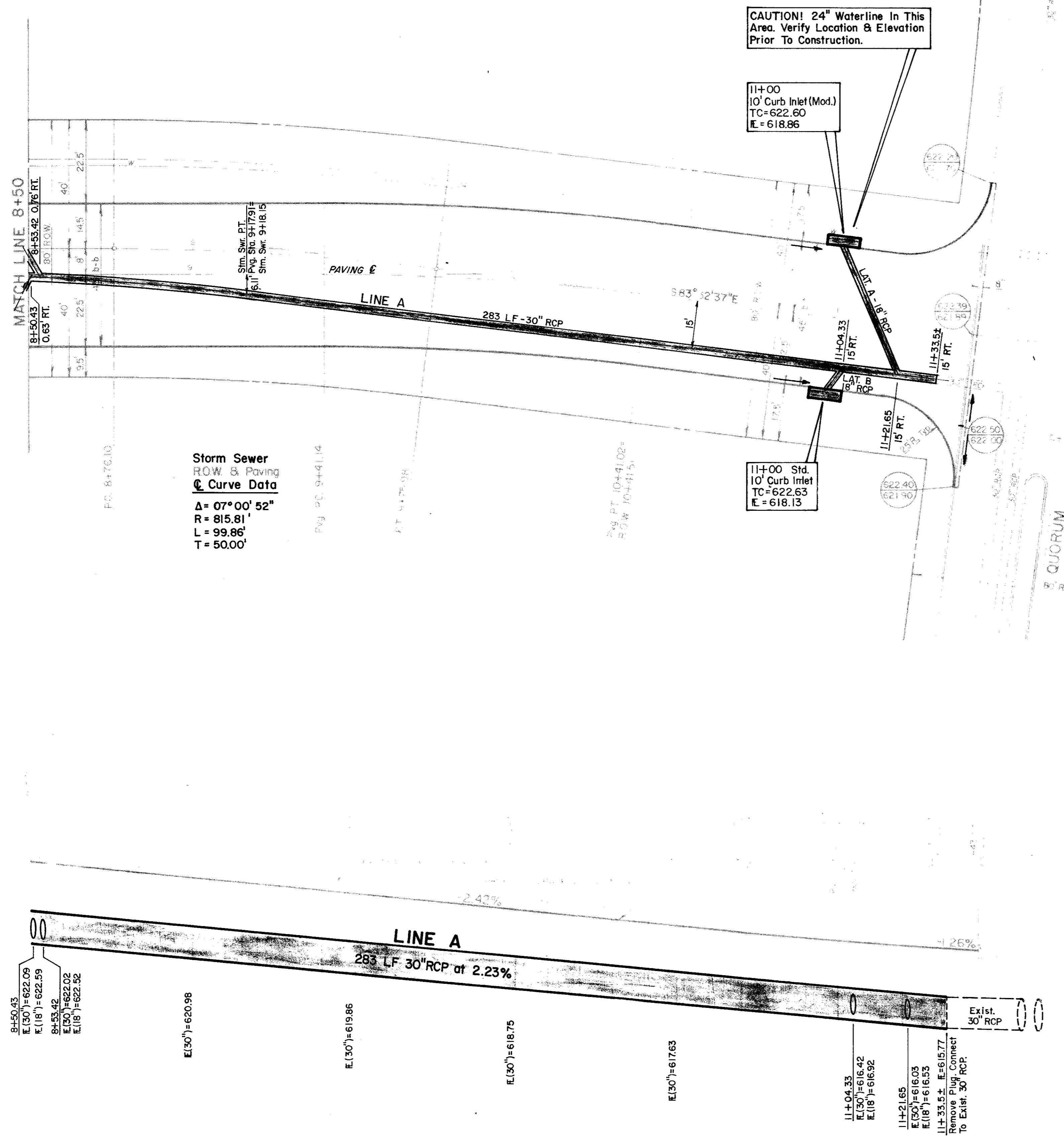
NOTE: THIS DRAWING TO BE USED FOR STORM DRAINAGE ONLY!



Revision		By	Date
TOWN OF ADDISON DALLAS COUNTY, TEXAS			
<b>MILDRED STREET IMPROVEMENTS</b>			
<b>DRAINAGE</b>			
<b>STA. 0+00 TO STA. 5+00</b>			
<b>GINN, INC.</b>			
Consulting Engineers Dallas, Texas			
Designed - TEC	Drawn - TEC	Date - May, 1990	Job No. - 90439
Approved - HWG	Checked - GF	Scale - 1" = 20'H/1" = 5'V	Sheet M9 of 12







Storm Sewer  
R.O.W. & Paving  
Curve Data  
 $\Delta = 07^{\circ}00'52''$   
 $R = 815.81'$   
 $L = 99.86'$   
 $T = 50.00'$

CAUTION! 24" Waterline In This Area. Verify Location & Elevation Prior To Construction.

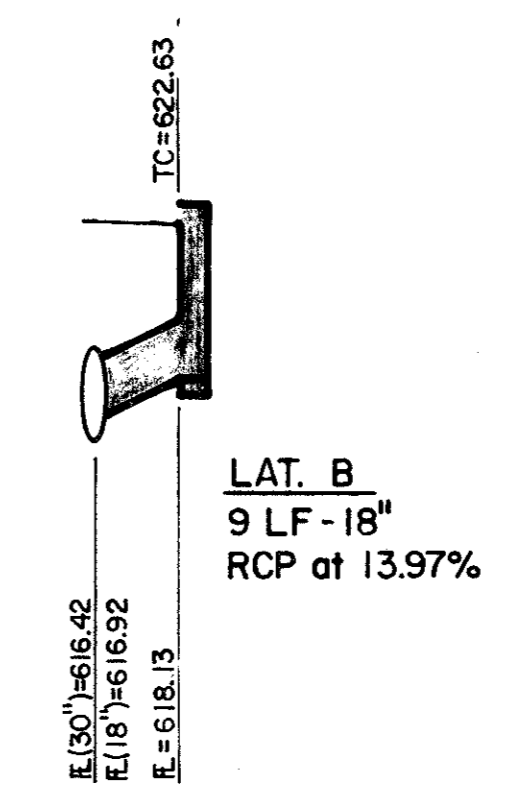
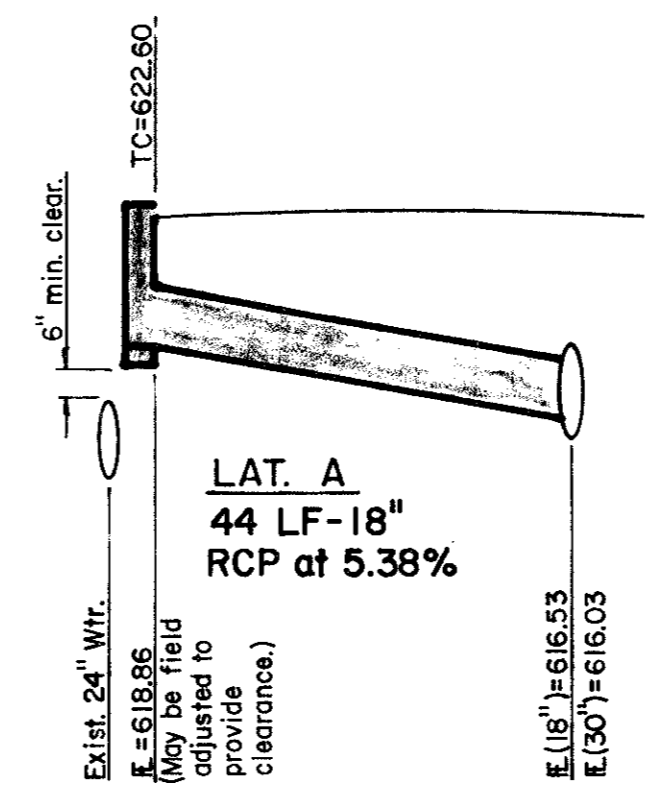
11+00  
10' Curb Inlet (Mod.)  
TC=622.60  
E = 618.86

11+00 Std.  
10' Curb Inlet  
TC=622.63  
E = 618.13

B.M. "1" on edge of Conc. Apron at  
E of Doorway of Water Tower.  
Elev. 638.66

630  
625  
620  
615

630  
625  
620  
615

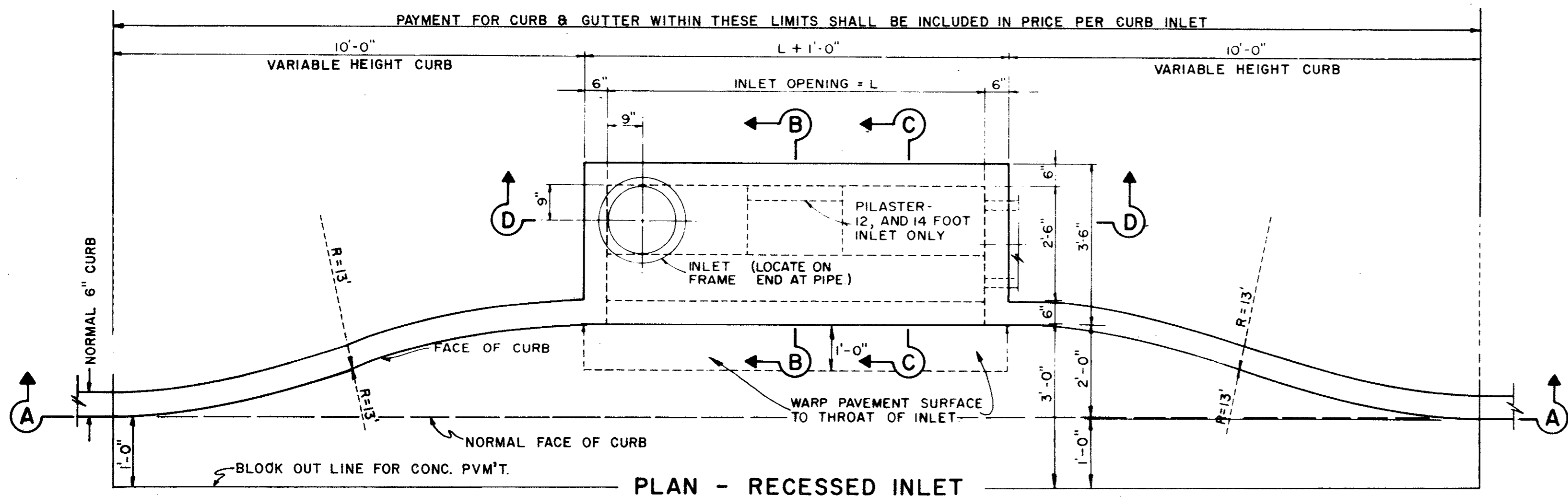


NOTE: THIS DRAWING TO BE USED FOR  
STORM DRAINAGE ONLY!

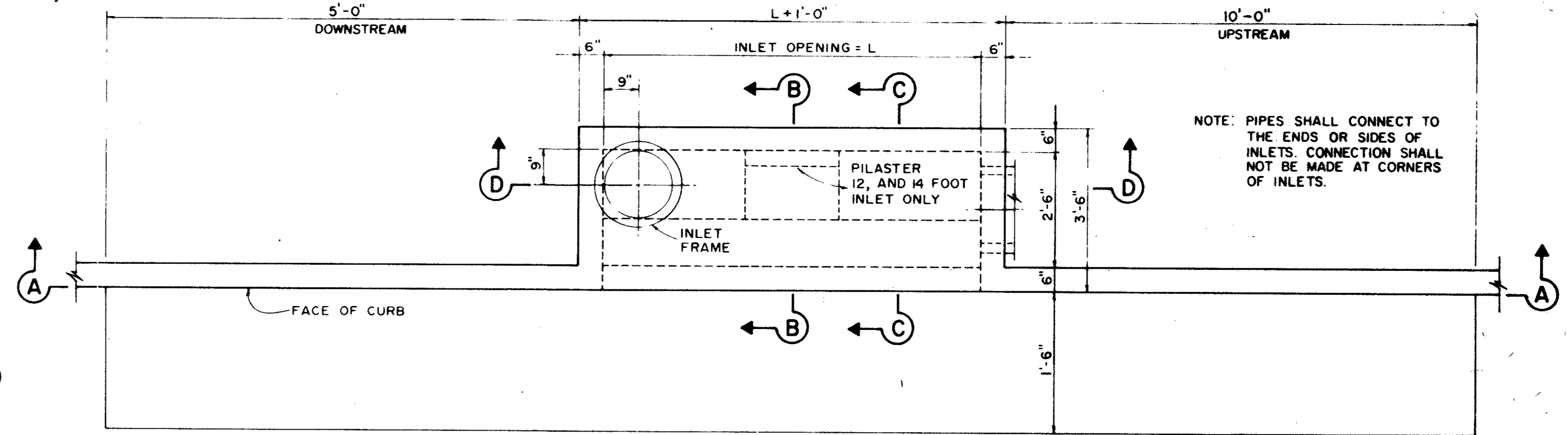


No.	Revision	By	Date
TOWN OF ADDISON DALLAS COUNTY, TEXAS <b>MILDRED STREET IMPROVEMENTS</b> <b>DRAINAGE</b> <b>STA. 8+50 TO STA. 11+45±</b> <b>GINN, INC.</b> Consulting Engineers Dallas, Texas			
Designed - TEC	Drawn - TEC	Date - May, 1990	Job No. - 90439
Approved - HWG	Checked - GF	Scale - 1" = 20' H / 1" = 5' V	Sheet M11 of 12



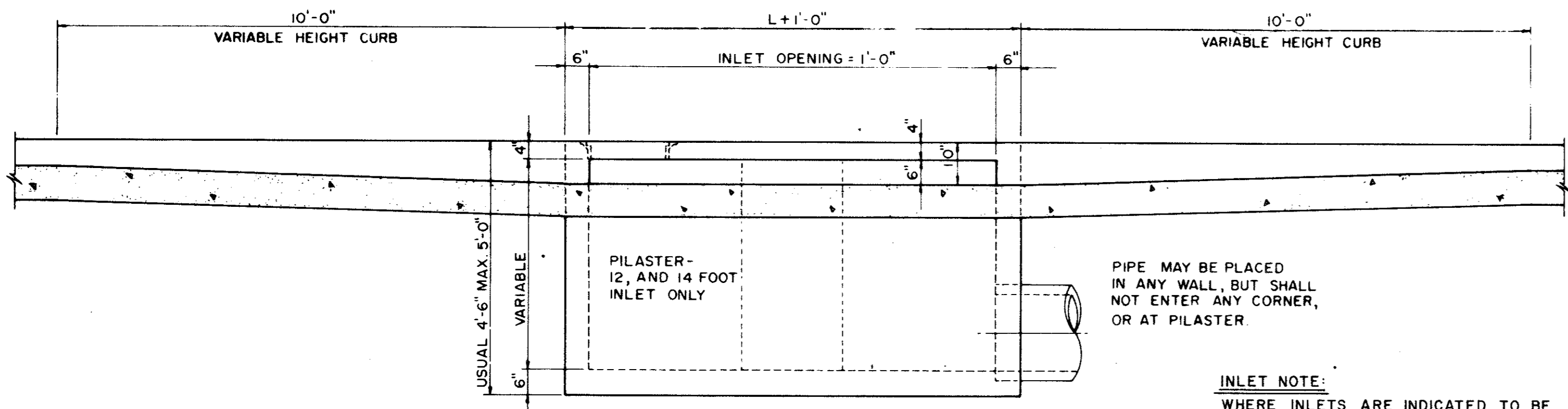


PLAN - RECESSED INLET



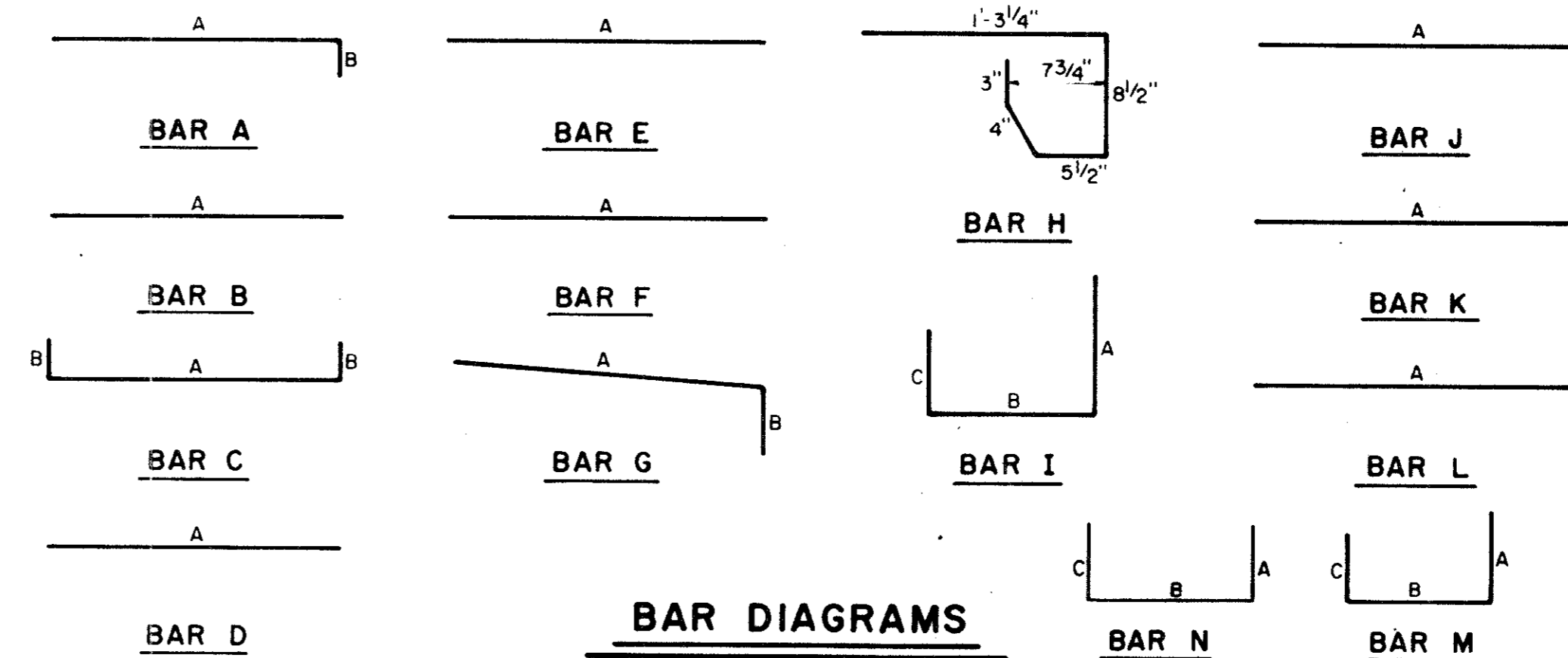
PLAN - STANDARD INLET

NOTE: PIPES SHALL CONNECT TO THE ENDS OR SIDES OF INLETS. CONNECTION SHALL NOT BE MADE AT CORNERS OF INLETS.



SECTION A-A - RECESSED AND STANDARD INLETS  
4, 6, 8, 10, 12, AND 14 FOOT INLETS

INLET NOTE:  
WHERE INLETS ARE INDICATED TO BE MODIFIED, REFER TO PLAN/PROFILE SHEETS FOR ELEV. DIFFERENT SIZES OR MODIFICATIONS. ALL OTHER ITEMS SHALL REMAIN AS SHOWN ON THIS STANDARD DETAIL SHEET.

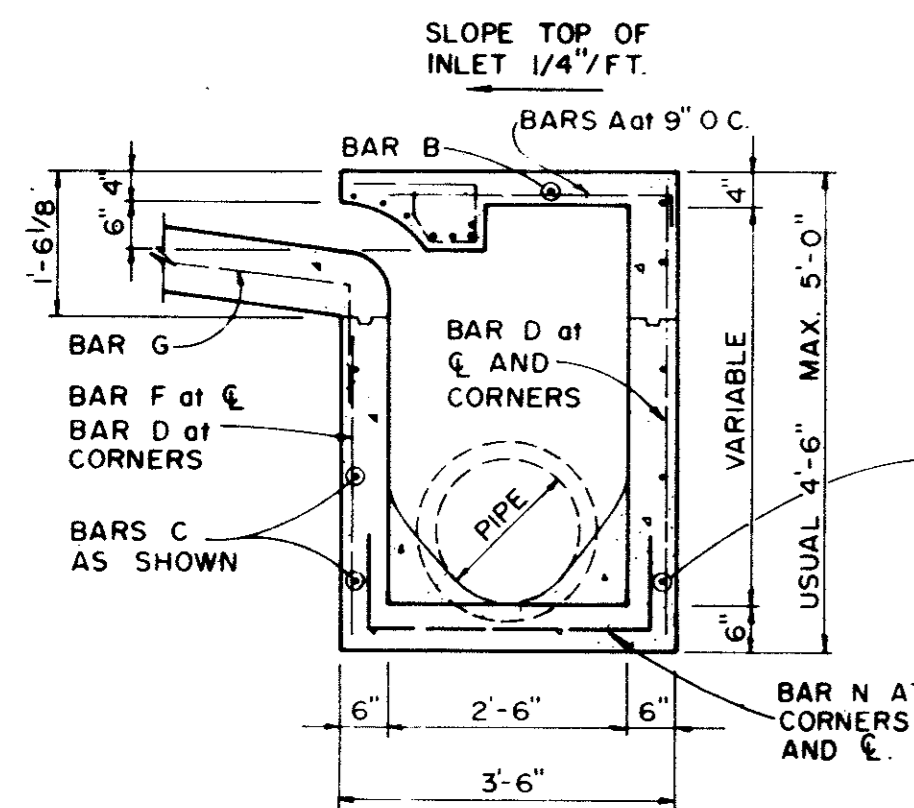
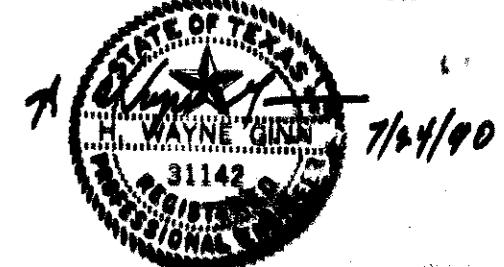


BAR DIAGRAMS

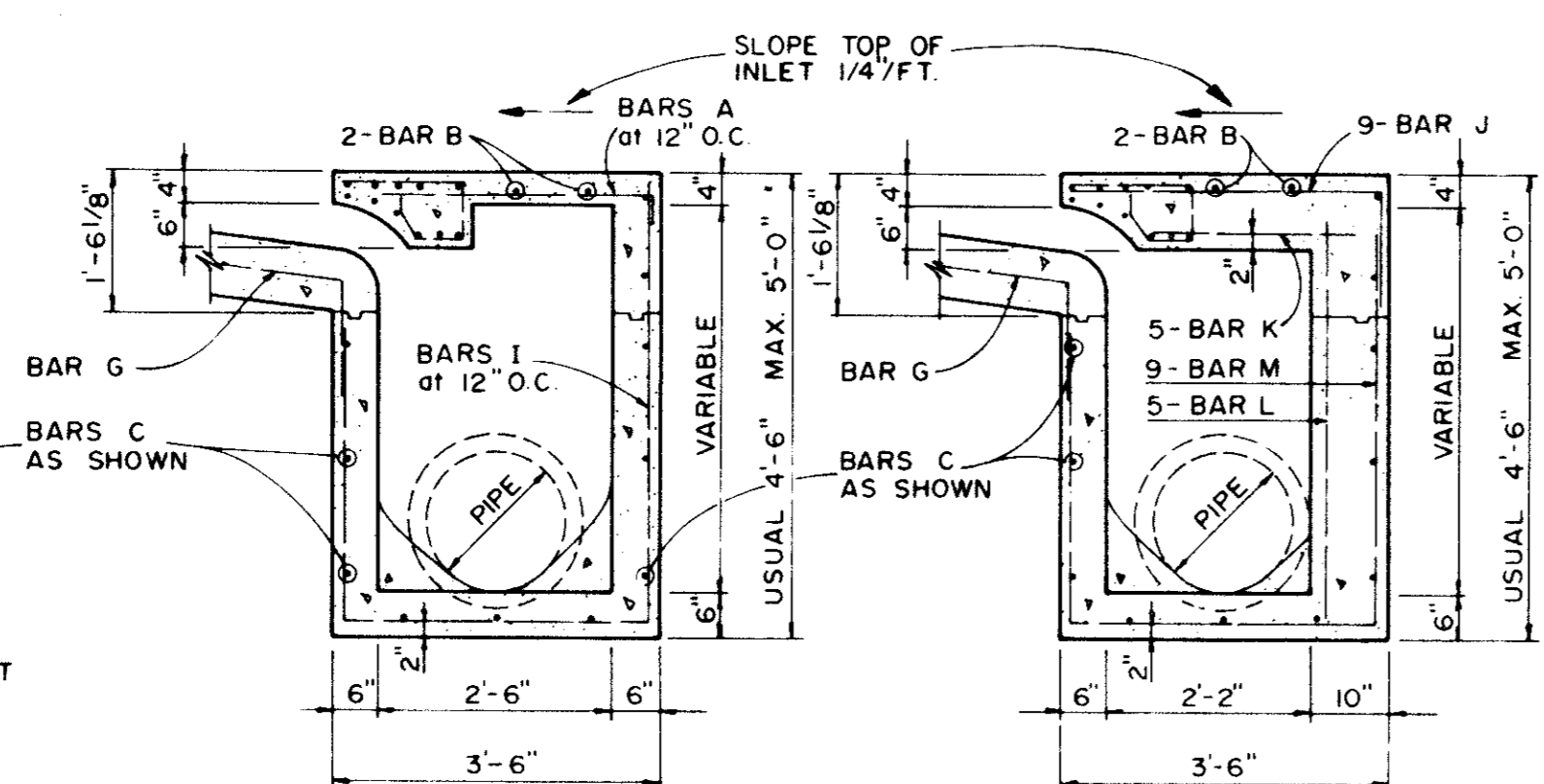
REINFORCING STEEL SCHEDULE

DIMENSIONS SHOWN ARE FOR MAXIMUM SIZE INLETS						
INLET LENGTH	BAR TYPE	BAR DIA. (1/8 IN.)	NO. REQ'D	BAR DIMENSIONS		
				A	B	C
4	A	3	6	3'-2"	0'-3"	-
	B	3	1	2'-10"	-	-
	C	4	15	4'-8"	0'-6"	-
	D	4	5	4'-8"	-	-
	F	4	1	3'-2"	-	-
	G	3	5	2'-0"	1'-3"	-
	H	3	4	*	*	*
	N	3	3	3'-2"	3'-2"	3'-2"
6	A	3	9	3'-2"	0'-3"	-
	B	3	1	4'-10"	-	-
	C	4	15	6'-8"	0'-6"	-
	D	4	5	4'-8"	-	-
	F	4	1	3'-2"	-	-
	G	3	5	2'-0"	1'-3"	-
	H	3	6	*	*	*
	N	3	3	3'-2"	3'-2"	3'-2"
8	A	3	12	3'-2"	0'-3"	-
	B	3	1	6'-10"	-	-
	C	4	15	8'-8"	0'-6"	-
	D	4	5	4'-8"	-	-
	F	4	1	3'-2"	-	-
	G	3	5	2'-0"	1'-3"	-
	H	3	8	*	*	*
	N	3	3	3'-2"	3'-2"	3'-2"
10	A	3	10	3'-2"	0'-3"	-
	B	3	2	8'-10"	-	-
	C	4	16	10'-8"	0'-6"	-
	D	4	4	4'-8"	-	-
	E	5	6	10'-8"	-	-
	G	3	5	2'-0"	1'-3"	-
	H	3	15	*	*	*
	I	4	8	4'-8"	3'-2"	3'-2"
	L	4	5	4'-3"	-	-
12	A	3	12	3'-2"	0'-3"	-
	B	3	2	10'-10"	-	-
	C	4	16	12'-8"	0'-6"	-
	D	4	4	4'-8"	-	-
	E	5	6	12'-8"	-	-
	G	3	5	2'-0"	1'-3"	-
	H	3	18	*	*	*
	I	4	10	4'-8"	3'-2"	3'-2"
	J	5	9	3'-2"	1'-3"	-
	K	4	5	2'-3"	-	-
	L	4	5	4'-3"	-	-
	M	5	9	4'-3"	3'-2"	3'-9"
14	A	3	14	3'-2"	0'-3"	-
	B	3	2	10'-10"	-	-
	C	4	16	14'-8"	0'-6"	-
	D	4	4	4'-8"	-	-
	E	5	6	14'-8"	-	-
	G	3	5	2'-0"	1'-3"	-
	H	3	21	*	*	*
	I	4	12	4'-8"	3'-2"	3'-2"
	J	5	9	3'-2"	1'-3"	-
	K	4	5	2'-3"	-	-
	L	4	5	4'-3"	-	-
	M	5	9	4'-3"	3'-2"	3'-9"

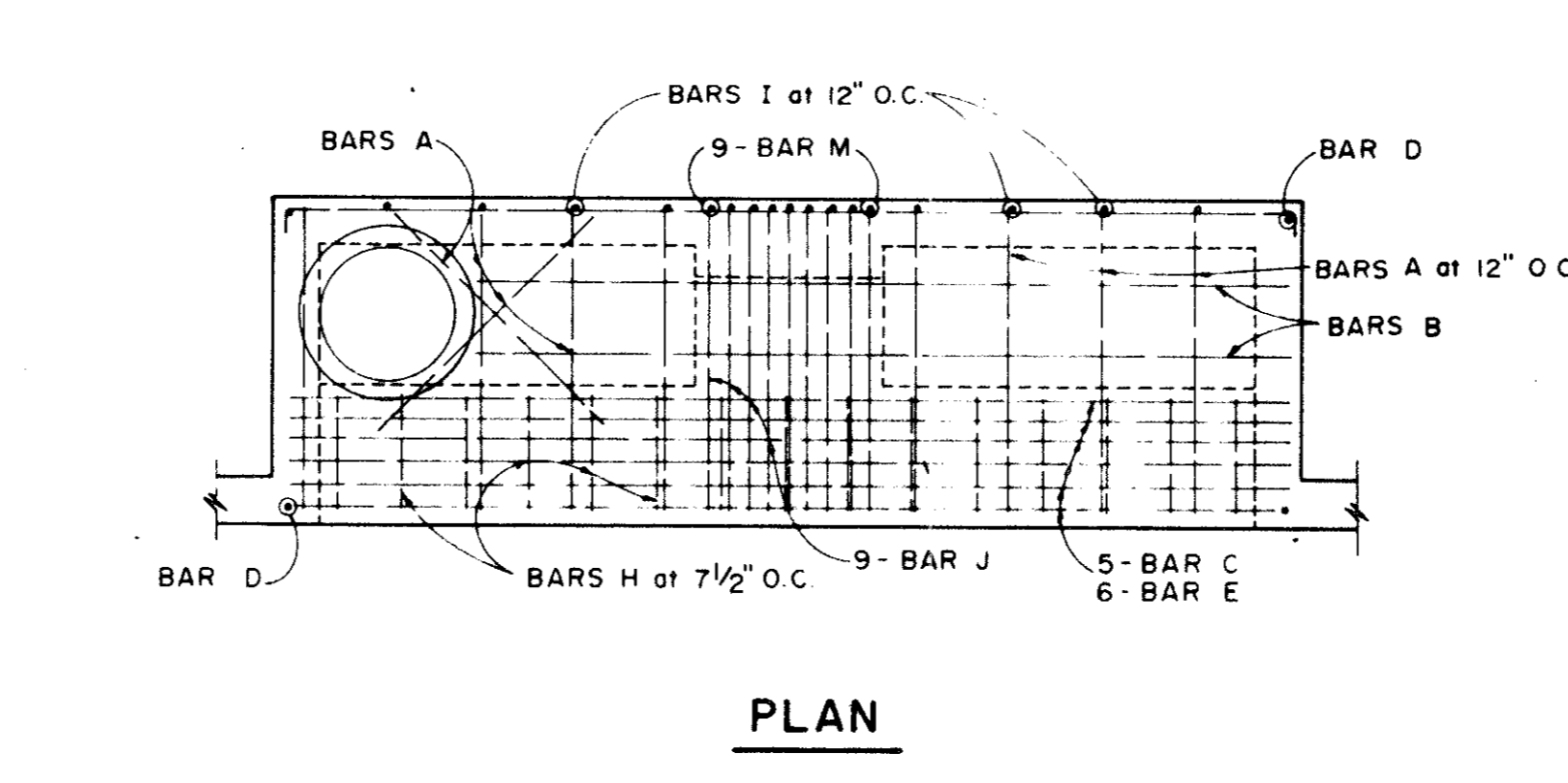
\* SEE DIAGRAM FOR DIMENSIONS



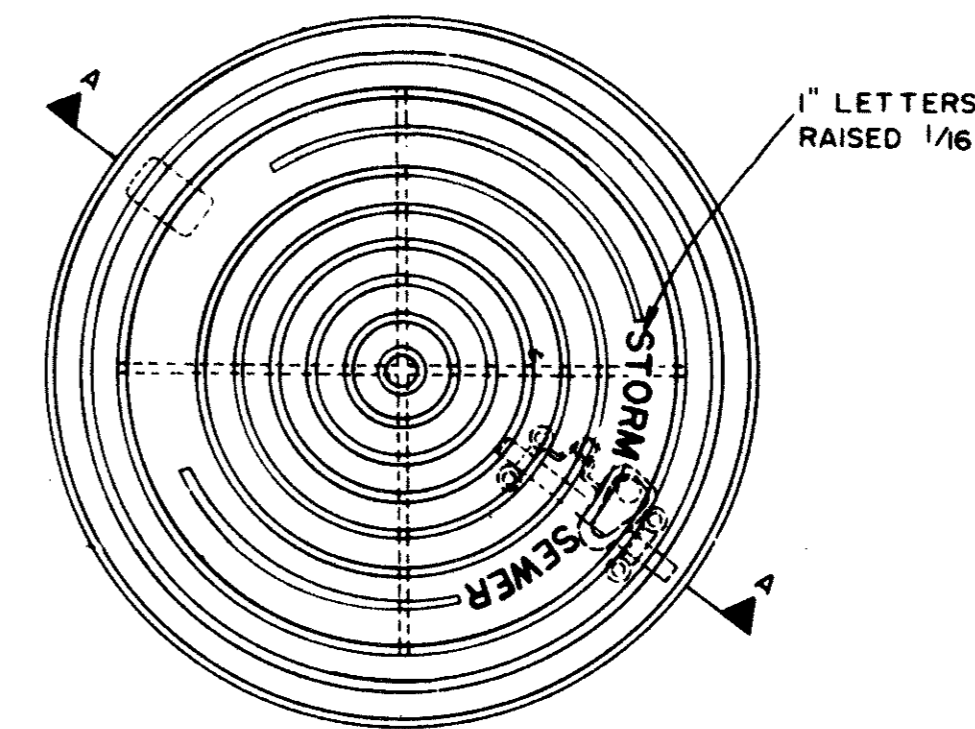
SECTION B-B



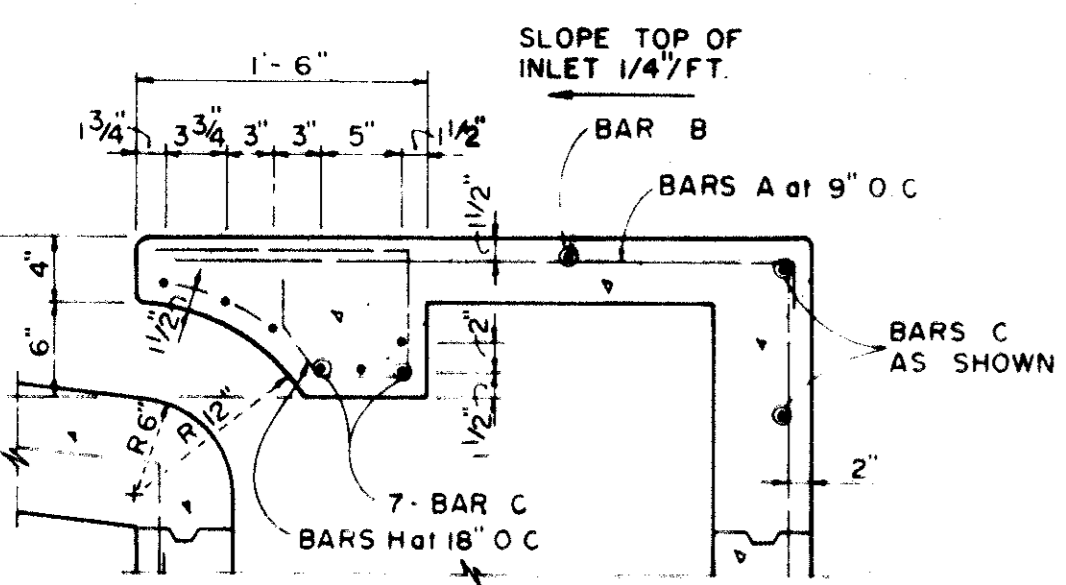
SECTION C-C



PLAN

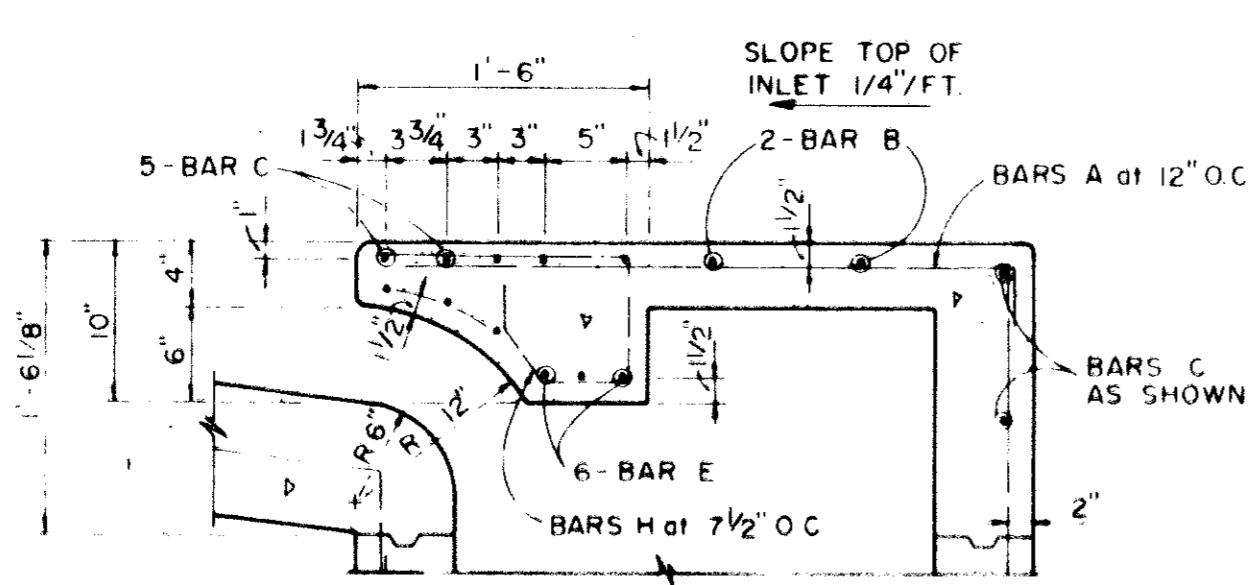


PLAN OF FRAME



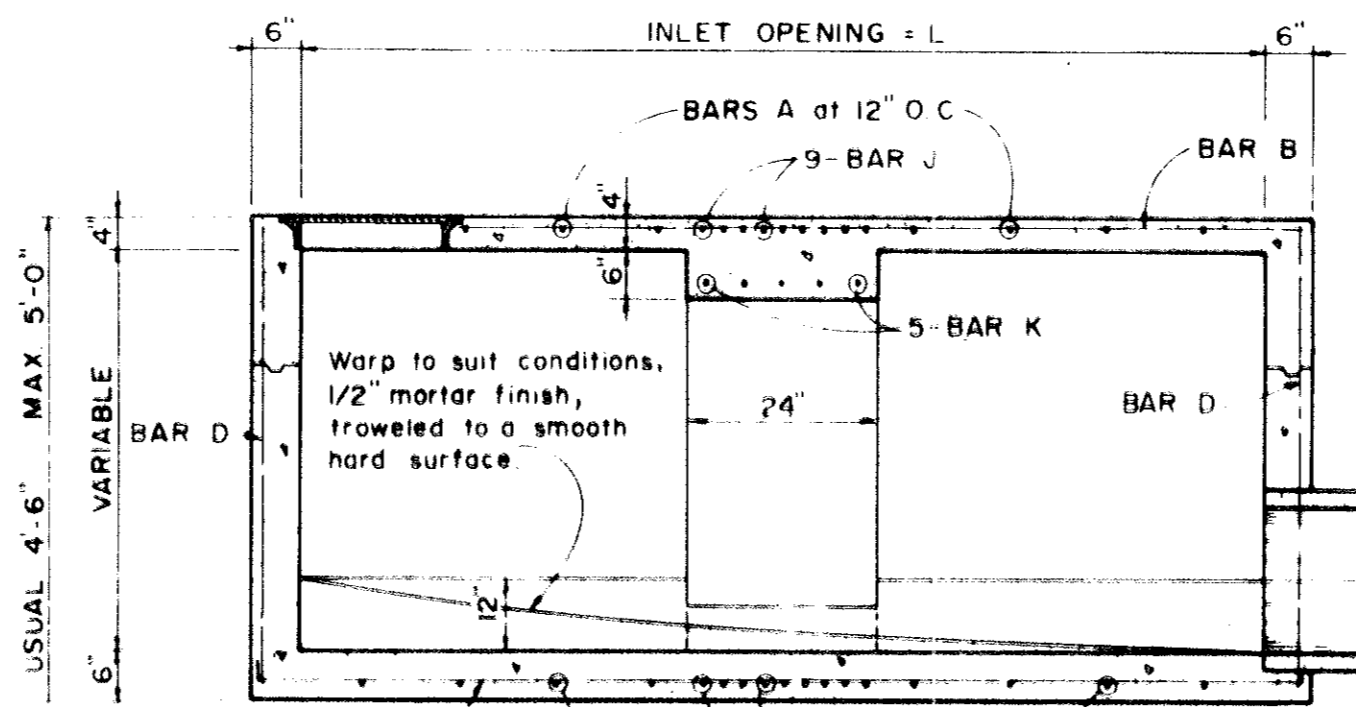
SECTION C-C

4, 6, AND 8 FOOT INLETS

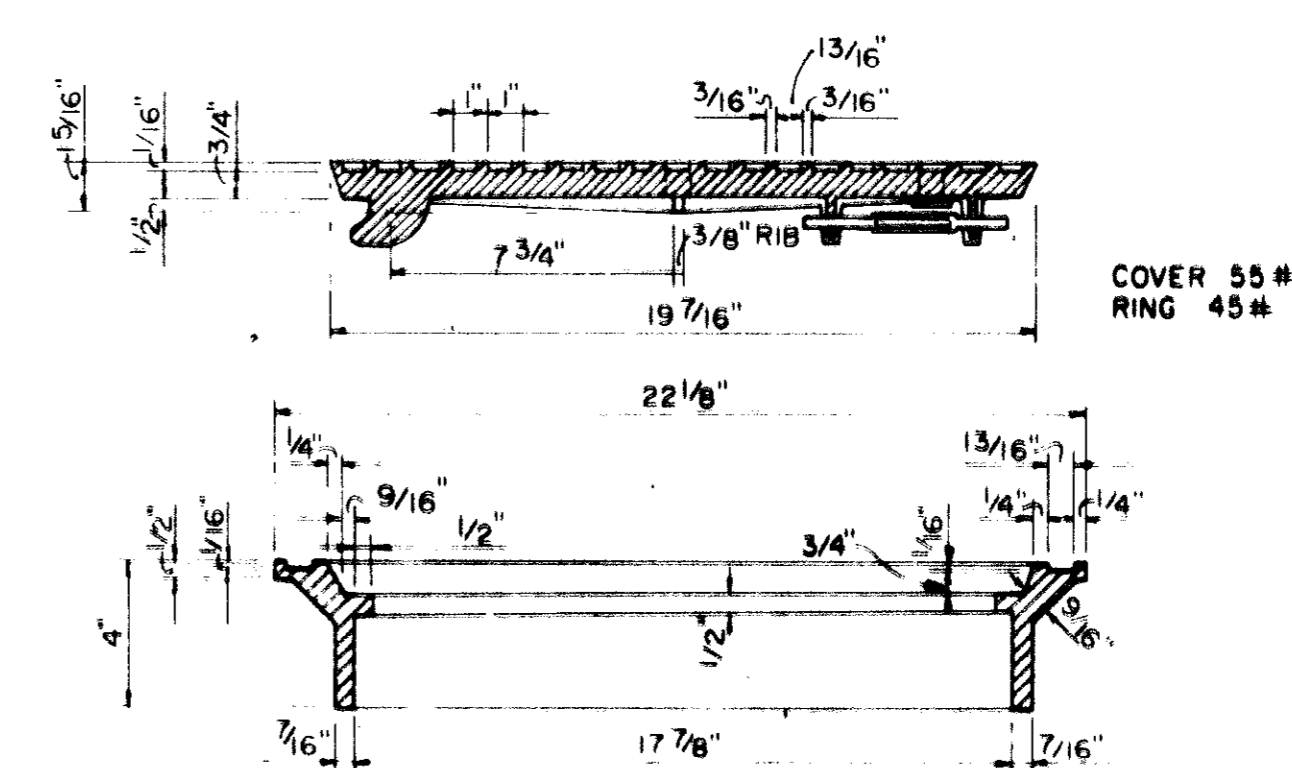


SECTION C-C

10, 12, AND 14 FOOT INLETS



SECTION D-D  
FOR 12' & 14' ONLY

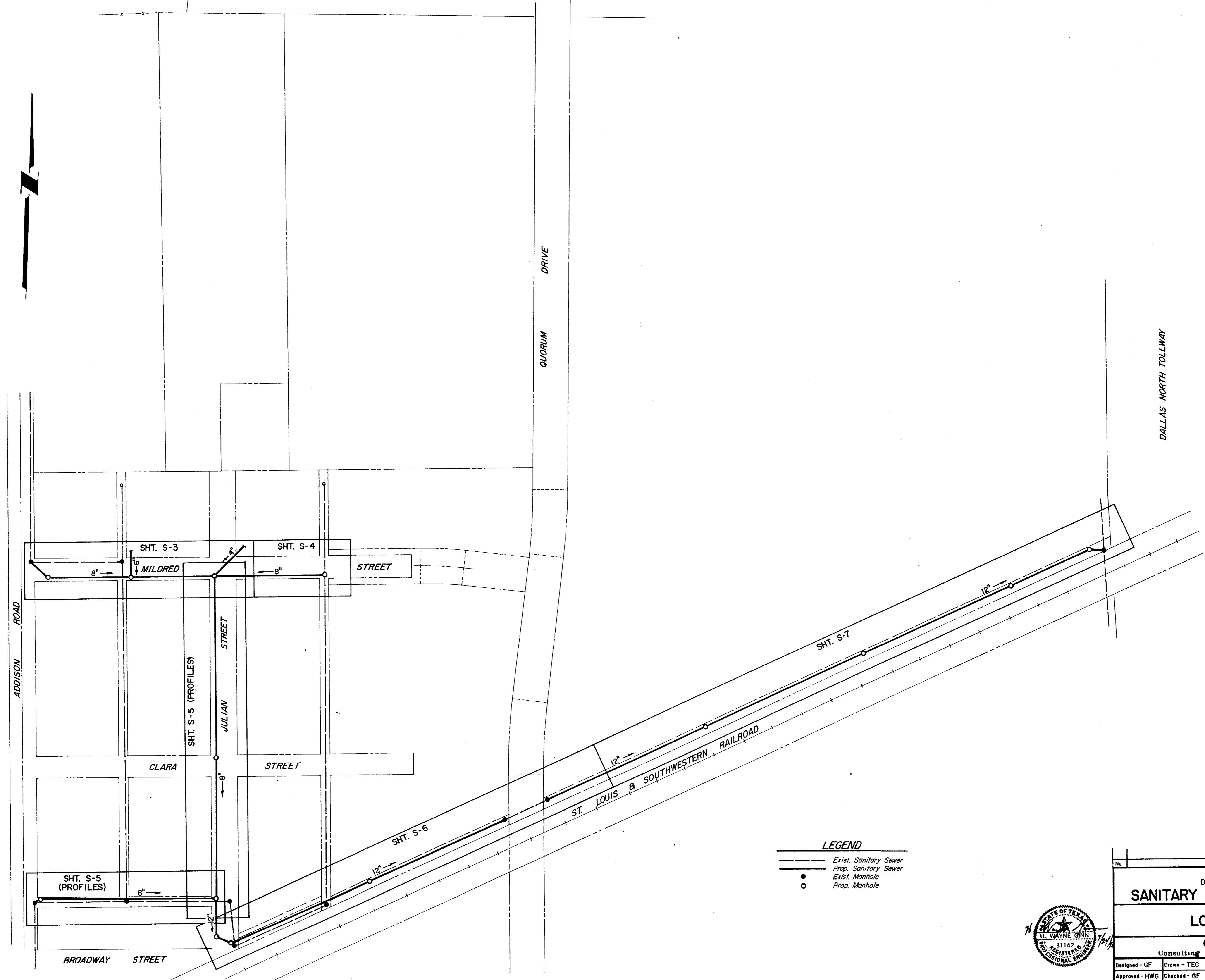


SECTION OF FRAME AND COVER

INLET FRAME AND COVER

No.	Revision	By	Date
<b>STANDARD CONSTRUCTION DETAILS STORM DRAINAGE</b>			
<b>CURB INLETS</b>			
<b>GINN, INC.</b>			
Consulting Engineers Dallas, Texas			
Designed -	Drawn -	Date - June, 1990	Job No. - 90439
Approved -	Checked -	Scale -	Sheet M12 of 12



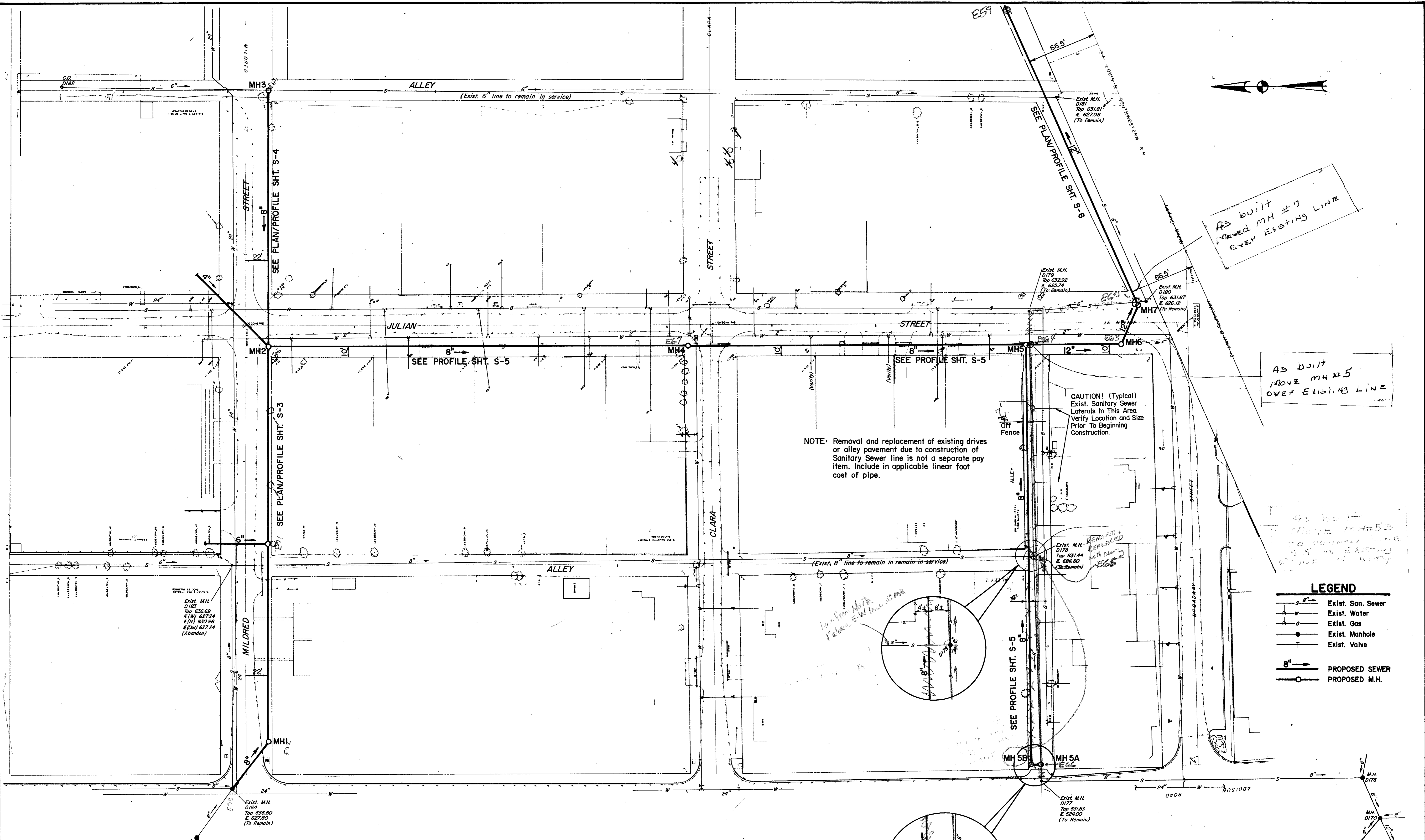


- LEGEND**
- Exist. Sanitary Sewer
  - - - Prop. Sanitary Sewer
  - Exist. Manhole
  - Prop. Manhole



No.	Revision	By	Date
TOWN OF ADDISON DALLAS COUNTY, TEXAS			
<i>As Built</i>			
<b>SANITARY SEWER IMPROVEMENTS</b>			
<b>LOCATION MAP</b>			
<b>GINN, INC.</b>			
Consulting Engineers Dallas, Texas			
Designed - GF	Drawn - TEC	Date - June, 1990	Job No. - 90443
Approved - HWG	Checked - GF	Scale - 1" = 100'	Sheet S1 of 10





NOTE: Removal and replacement of existing drives or alley pavement due to construction of Sanitary Sewer line is not a separate pay item. Include in applicable linear foot cost of pipe.

CAUTION! (Typical) Exist. Sanitary Sewer Laterals In This Area. Verify Location and Size Prior To Beginning Construction.

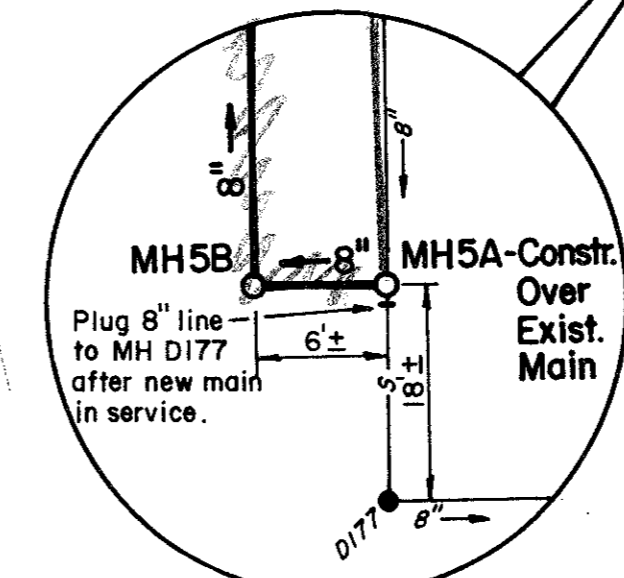
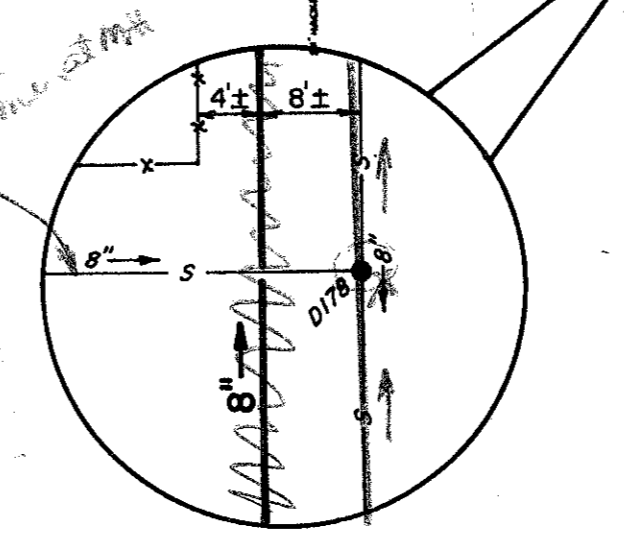
As built Moved MH #7 OVER EXISTING LINE

As built MOVE MH #5 OVER EXISTING LINE

As built MOVE MH #5B TO EXISTING LINE AS SHOWN IN PROFILE SHEET S-5

**LEGEND**

— 8" —	Exist. San. Sewer
— W —	Exist. Water
— G —	Exist. Gas
— M —	Exist. Manhole
— V —	Exist. Valve
— 8" —	PROPOSED SEWER
— O —	PROPOSED M.H.



TOWN OF ADDISON  
DALLAS COUNTY, TEXAS

**As Builts**  
**SANITARY SEWER IMPROVEMENTS**

# \_\_\_\_\_

**PLAN**

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

31142  
REGISTERED PROFESSIONAL ENGINEER

7/24/90

Designed - GF	Drawn - TEC	Date - June, 1990	Job No. - 90443
Approved - HWG	Checked - GF	Scale - 1"=40'	Sheet S2 of 10

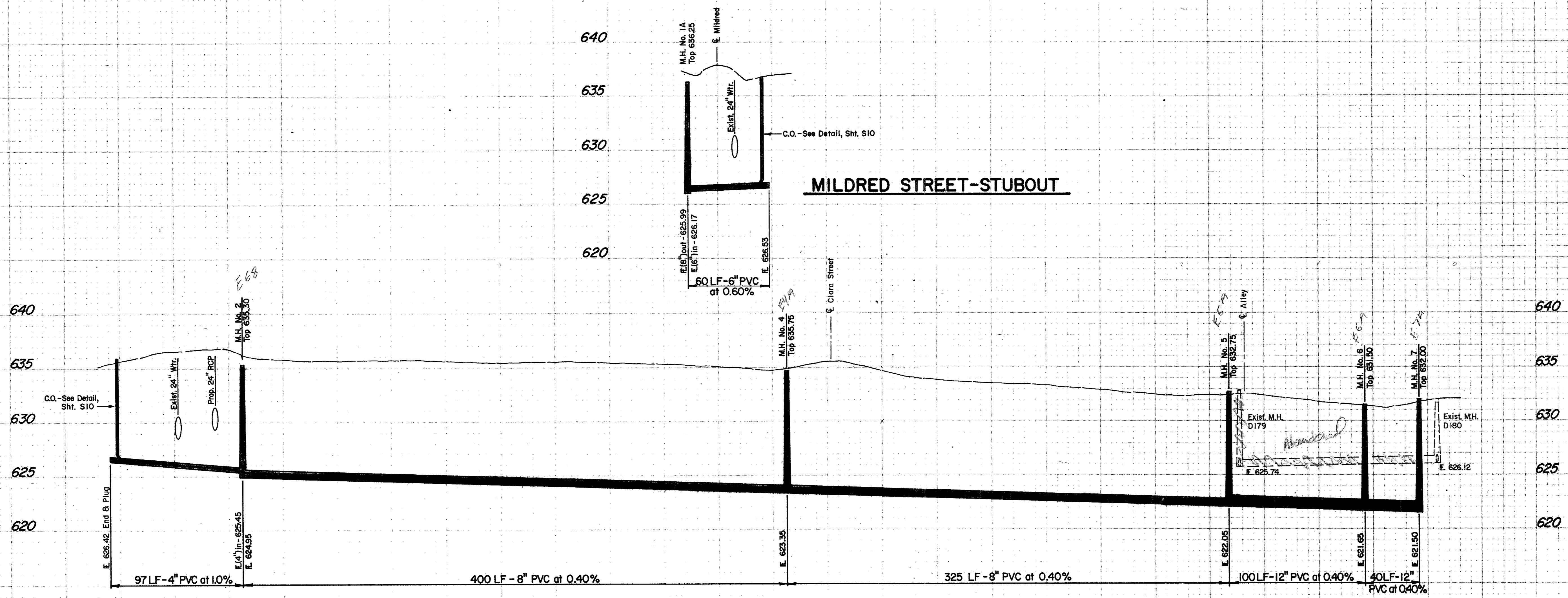




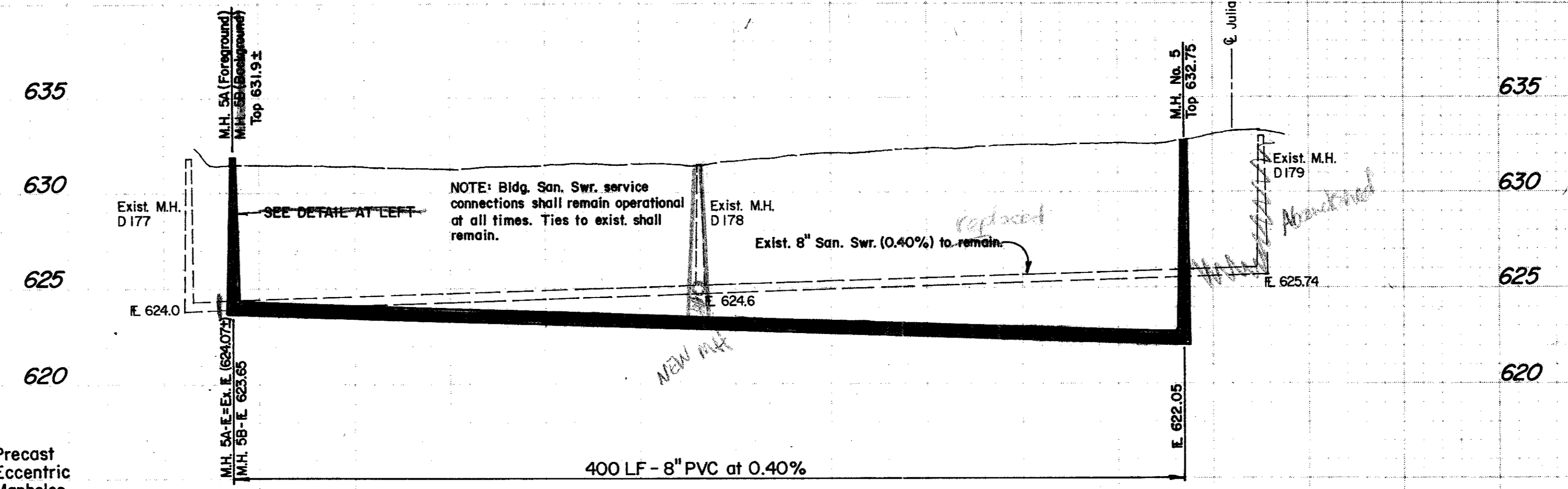


FINAL SURVEY

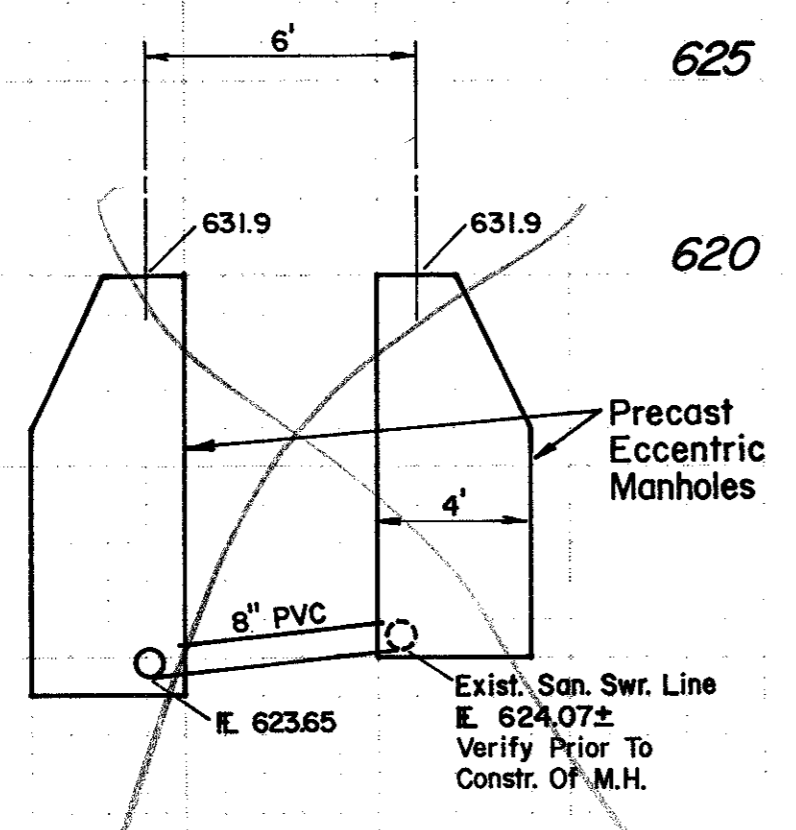
ORIGINAL SURVEY



**JULIAN STREET**

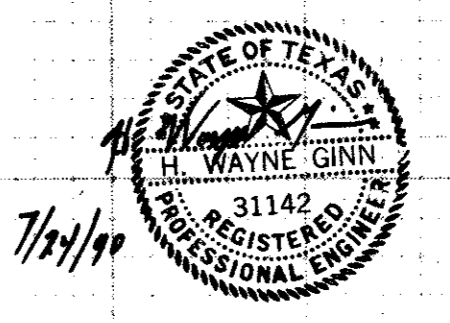


**ALLEY**



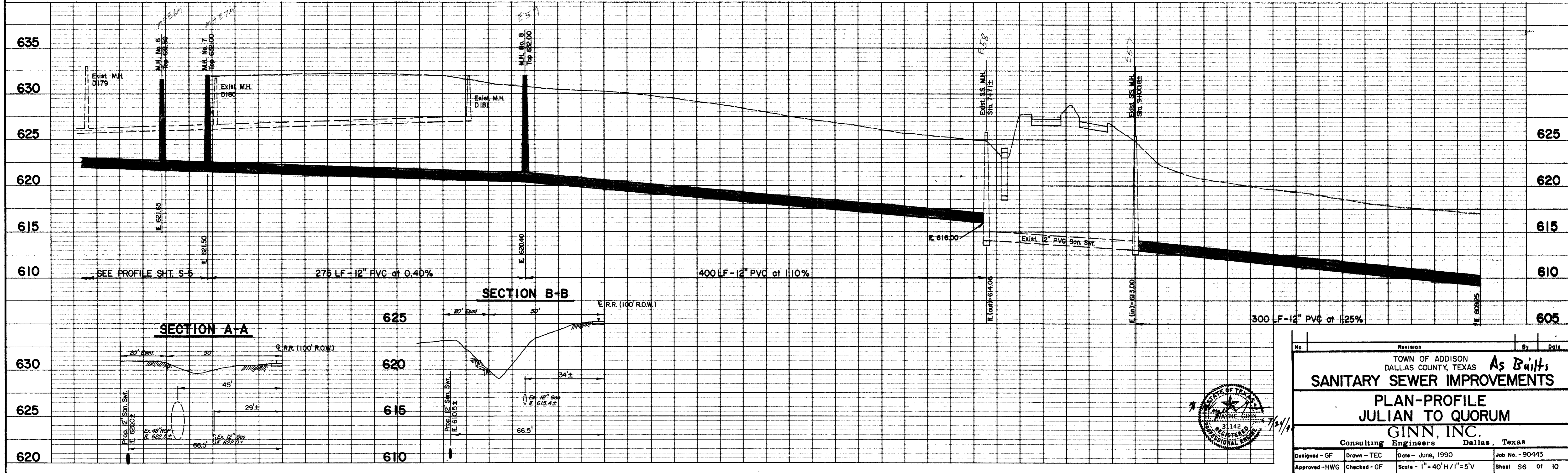
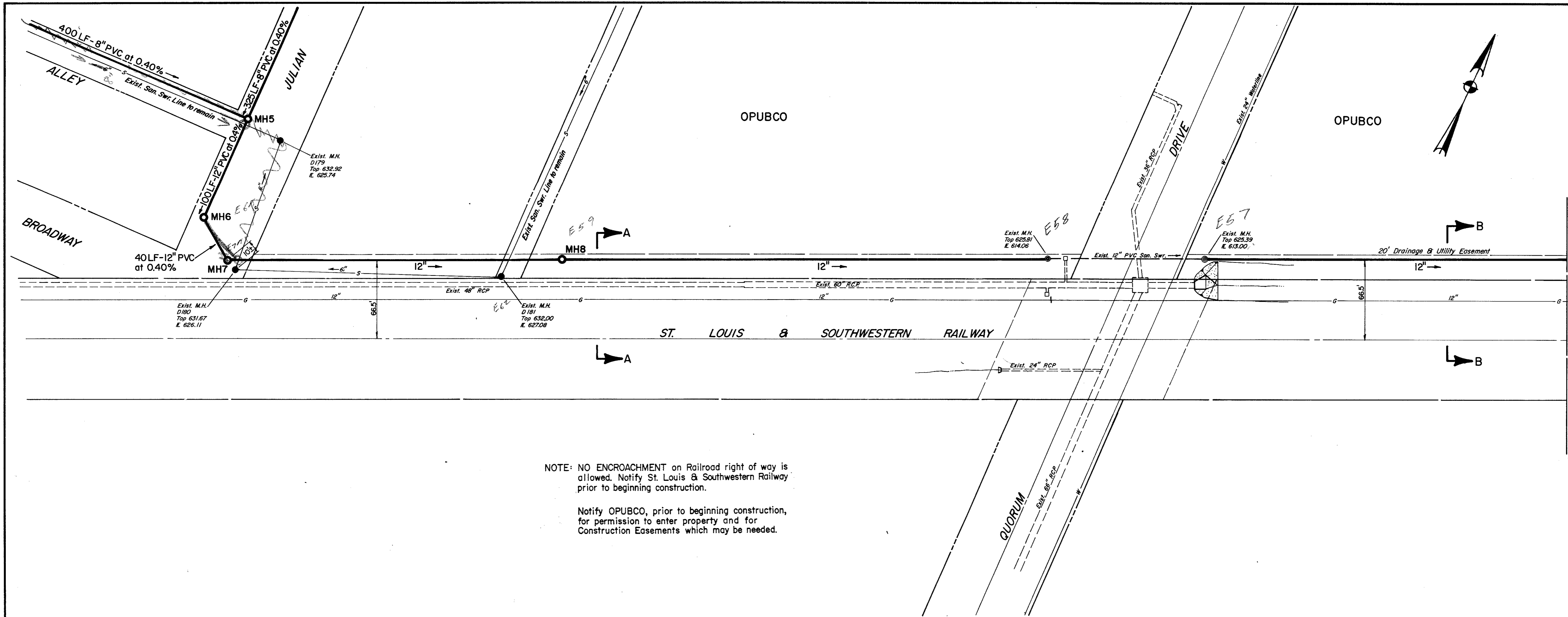
**DETAIL**  
No Scale

NOTE: Bldg. San. Swr. service connections shall remain operational at all times. Ties to exist shall remain.

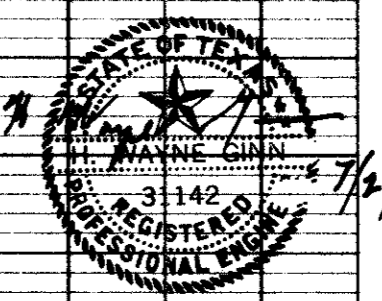


No.	Revision	By	Date
TOWN OF ADDISON DALLAS COUNTY, TEXAS			
<b>As Builts</b> <b>SANITARY SEWER IMPROVEMENTS</b>			
<b>PROFILES</b> <b>JULIAN STREET - ALLEY</b>			
<b>GINN, INC.</b> Consulting Engineers Dallas, Texas			
Designed - GF	Drawn - TEC	Date - June, 1990	Job No. - 90443
Approved - HWG	Checked - GF	Scale - 1" = 40' H / 1" = 5' V	Sheet 85 of 10

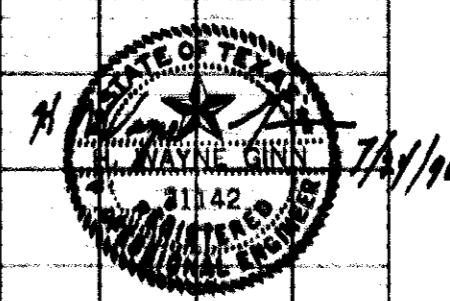
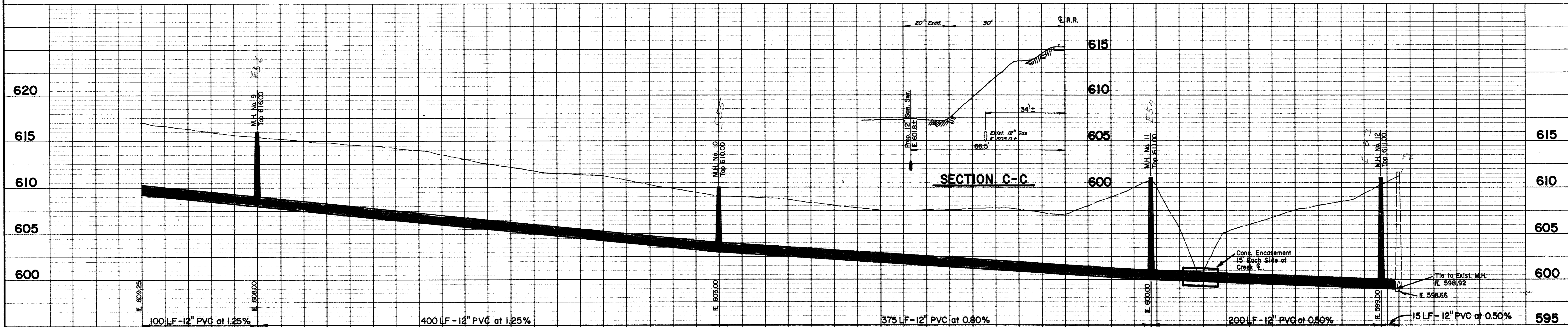
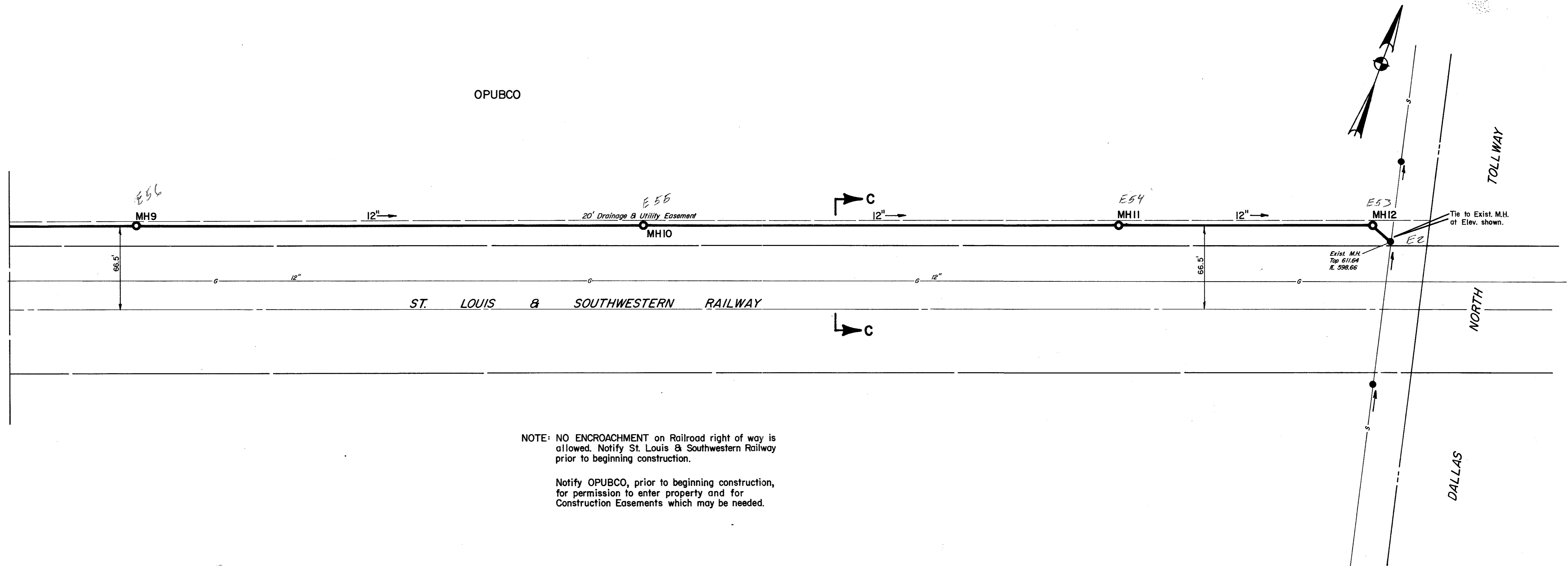




No.	Revision	By	Date
TOWN OF ADDISON DALLAS COUNTY, TEXAS			
<b>SANITARY SEWER IMPROVEMENTS</b>			
<b>PLAN-PROFILE</b>			
<b>JULIAN TO QUORUM</b>			
<b>GINN, INC.</b>			
Consulting Engineers Dallas, Texas			
Designed - GF	Drawn - TEC	Date - June, 1990	Job No. - 90443
Approved - HWG	Checked - GF	Scale - 1" = 40' H / 1" = 5' V	Sheet S6 of 10



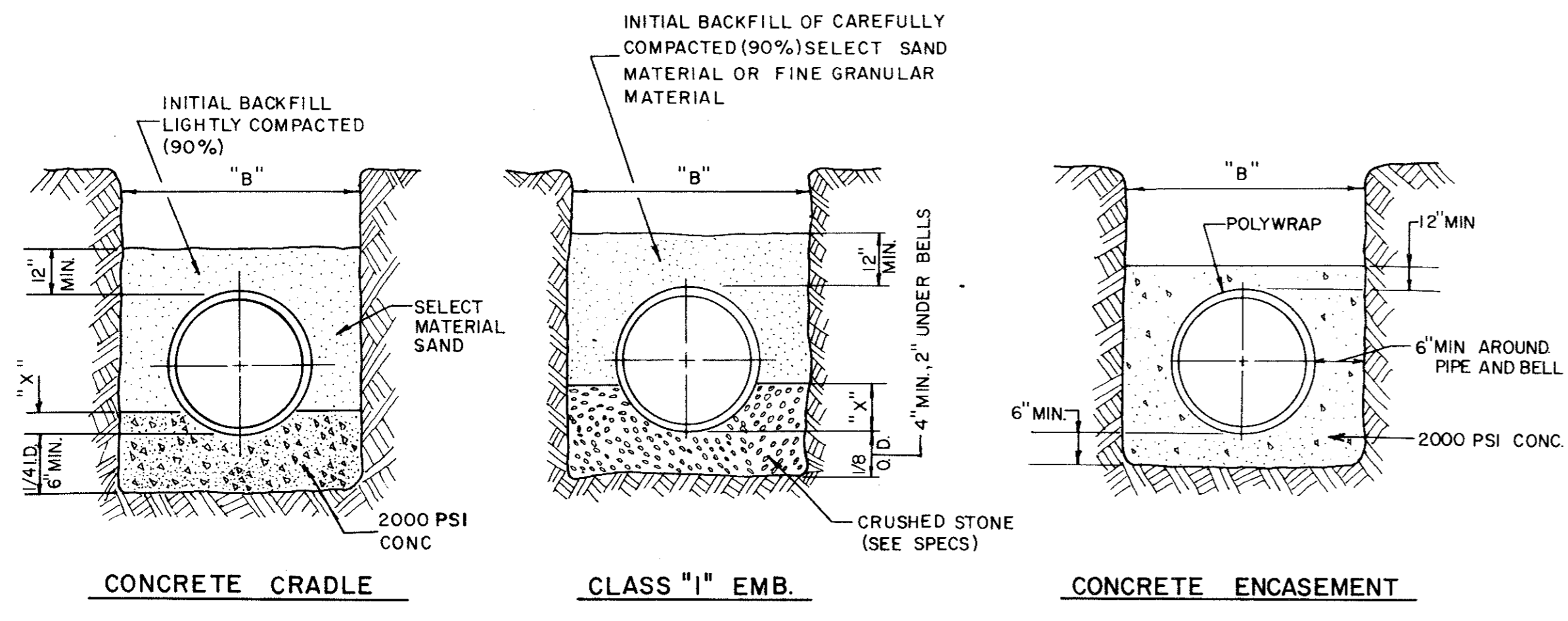




No.	Revision	By	Date
TOWN OF ADDISON DALLAS COUNTY, TEXAS <i>As Built</i>			
<b>SANITARY SEWER IMPROVEMENTS</b>			
<b>PLAN - PROFILE</b>			
<b>QUORUM TO DALLAS NORTH TOLLWAY</b>			
<b>GINN, INC.</b>			
Consulting Engineers Dallas, Texas			
Designed - GF	Drawn - TEC	Date - June, 1990	Job No. - 90443
Approved - HWG	Checked - GF	Scale - 1" = 40' H / 1" = 5' V	Sheet 57 of 10



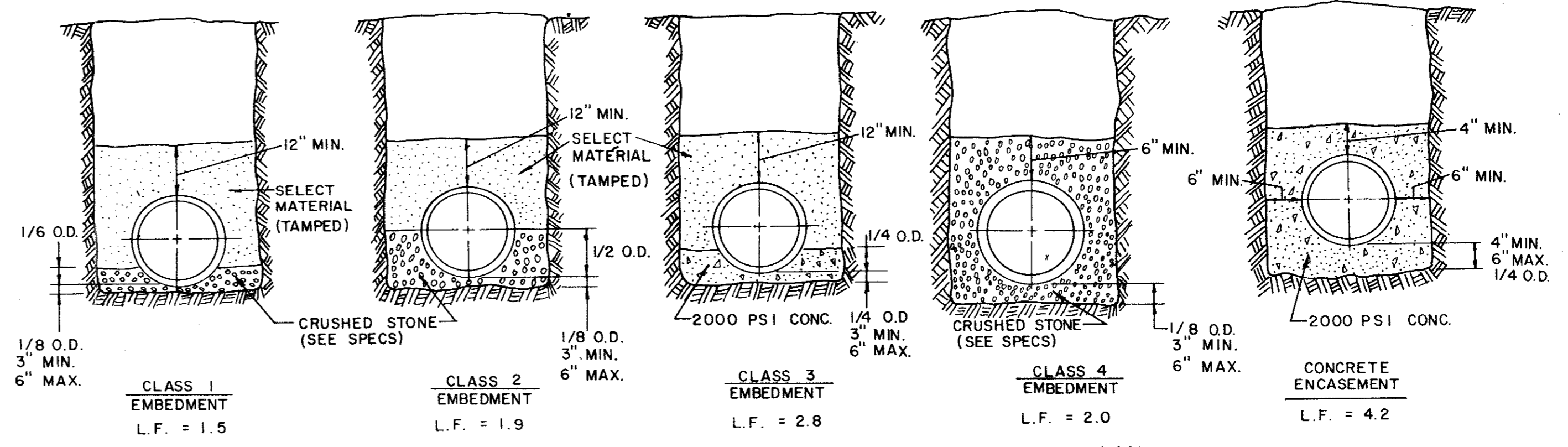
TYPICAL NATIVE MATERIAL COMPACTED TO:  
 95% OPTIMUM MOISTURE ± 3% UNDER PAVEMENT  
 90% OPTIMUM MOISTURE ± 3% OUTSIDE CURB LINES  
 JETTING IS NOT ALLOWED  
 BACKFILL TO BE COMPACTED IN 6"± LIFTS



**EMBEDMENT DETAILS FOR RCCP WATERLINE**

**TABLE OF QUANTITIES OF MATERIALS IN CUBIC YARDS PER 100 LINEAR FEET**

INSIDE DIAMETER OF PIPE	APPROX. OUTSIDE DIAMETER OF PIPE	"X" IS A MINIMUM DEPTH	"B" TRENCH WIDTH FOR COMPUTATION OF QUANTITIES	CONCRETE		CRUSHED STONE FOR CL "1" EMBEDMENT
				FOR EMBEDMENT	FOR ENCASEMENT	
REINFORCED CONCRETE CYLINDER PIPE						
14"	17.25"	2.53"	34"	6.91	16.07	5.16
16"	19.38"	2.84"	36"	7.50	17.76	5.64
18"	21.78"	3.19"	38"	8.11	19.52	6.16
24"	27.75"	4.06"	44"	9.97	24.90	9.28



**EMBEDMENT DETAILS FOR SANITARY SEWER**

**TABLE OF QUANTITIES OF 2000 PSI CONCRETE, GRAVEL OR CRUSHED STONE IN CUBIC YARDS PER 100 LINEAR FEET FOR EACH CLASS EMBEDMENT**

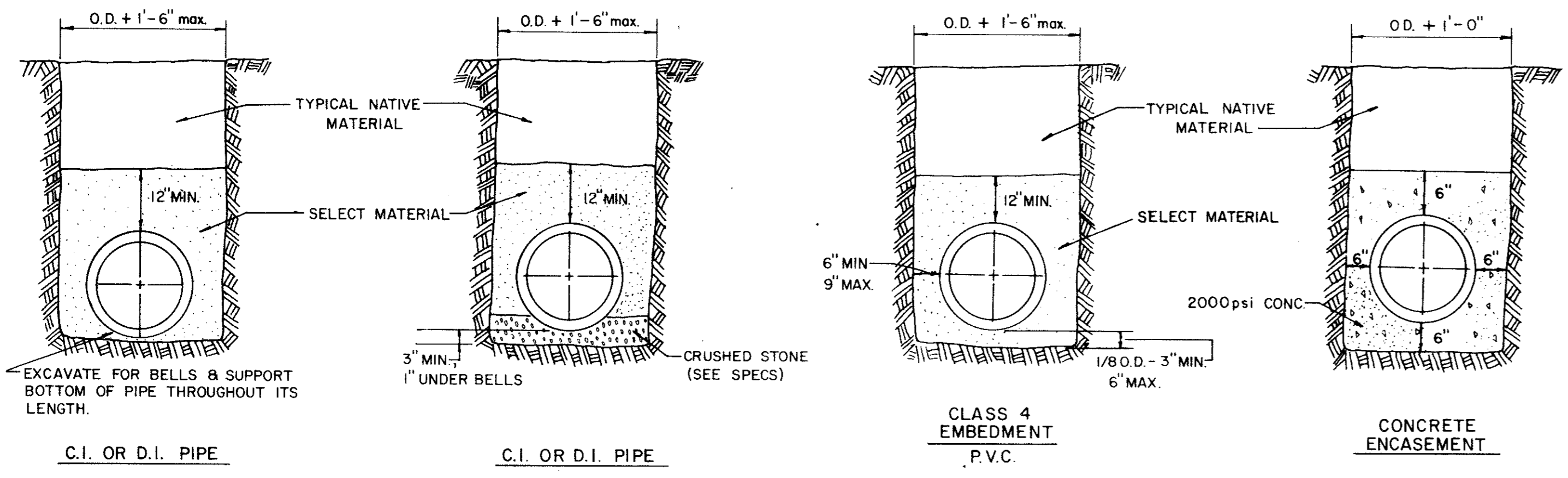
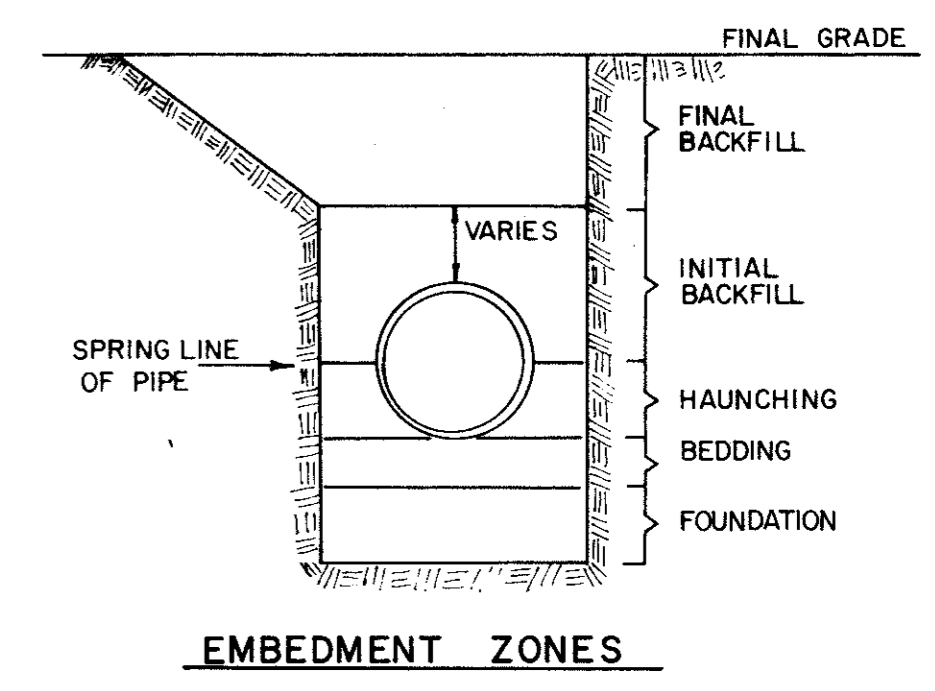
**TABLE OF QUANTITIES PER 100 LINEAR FEET REINFORCED CONCRETE PIPE**

SIZE OF PIPE IN INCHES I.D.	O.D. OF PIPE IN INCHES	TRENCH WIDTH IN INCHES	TRENCH WIDTH IN FEET	CLASS 1 EMBEDMENT CRUSHED STONE	CLASS 2 EMBEDMENT CRUSHED STONE	CLASS 3 EMBEDMENT CONCRETE	CONCRETE ENCASEMENT
12	16.00	32	2.67	4.1	6.5	4.8	15.8
15	19.50	36	3.00	4.8	7.8	6.4	19.2
18	23.00	39	3.25	5.7	9.2	8.2	21.2
21	26.50	43	3.58	6.9	11.0	10.2	24.9
24	30.00	46	3.83	8.3	13.1	12.4	28.7
27	33.50	51	4.25	10.3	16.1	14.4	32.8
30	37.00	57	4.75	12.7	20.1	17.0	34.8
33	40.50	62	5.17	15.1	23.8	19.3	39.2
36	44.00	67	5.58	18.0	28.6	22.1	43.8

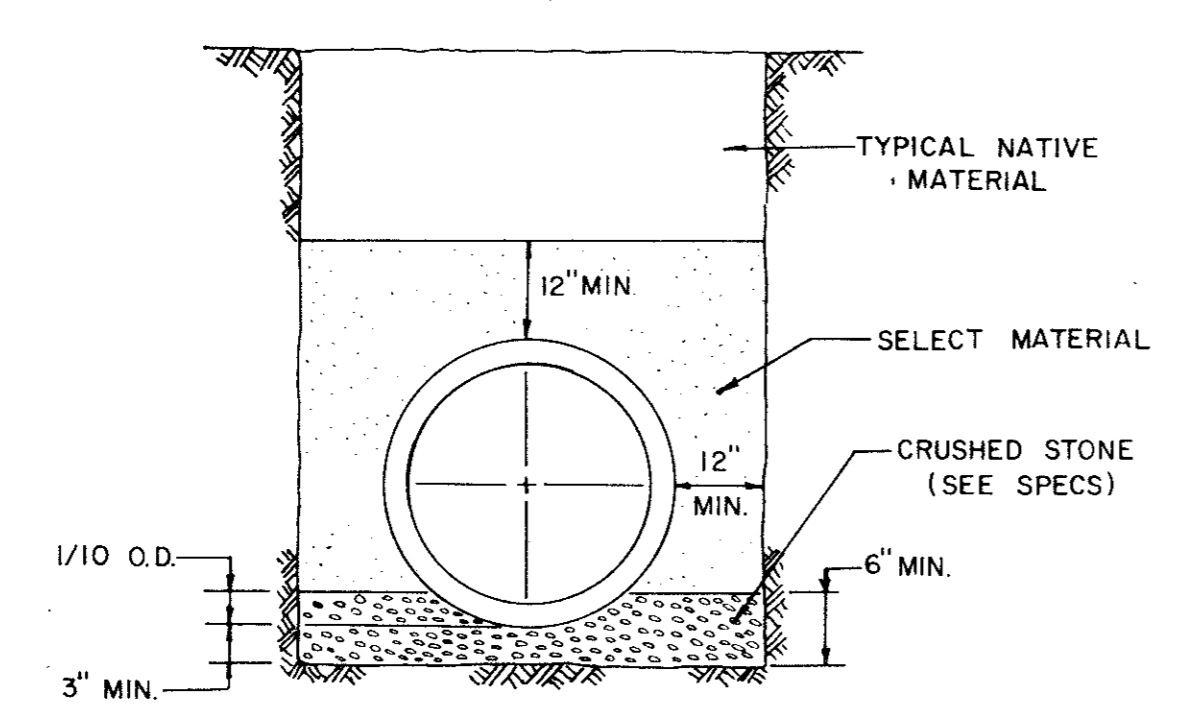
**TABLE OF QUANTITIES PER 100 LINEAR FEET-PVC PIPE (IN CUBIC YARDS)**

SIZE OF PIPE IN INCHES	O.D. OF PIPE IN INCHES	TRENCH WIDTH IN INCHES	TRENCH WIDTH IN FEET	CLASS 4 EMBEDMENT CRUSHED STONE	CONCRETE ENCASEMENT
6	6.28	24	2.00	8.0	11.7
8	8.16	24	2.00	8.7	12.4
10	10.20	26	2.18	10.2	14.2
12	12.24	28	2.35	11.7	15.9
16	15.30	31	2.61	14.0	18.8
24	24.00	36	3.00		
30	30.00	42	3.50		

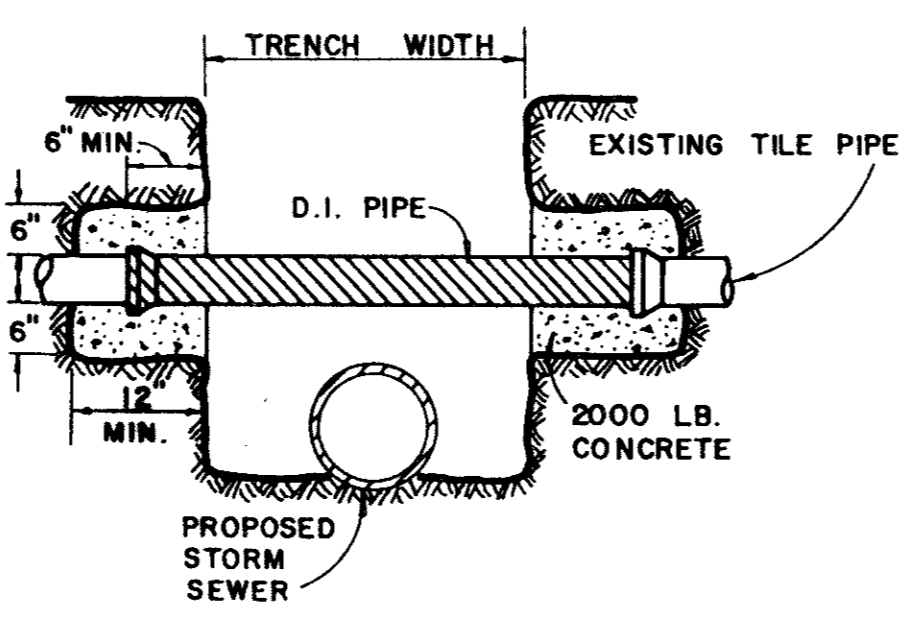
**NOTE: ALL SANITARY SEWER LINES THIS PROJECT SHALL HAVE CLASS 4 EMBEDMENT UNLESS OTHERWISE NOTED.**



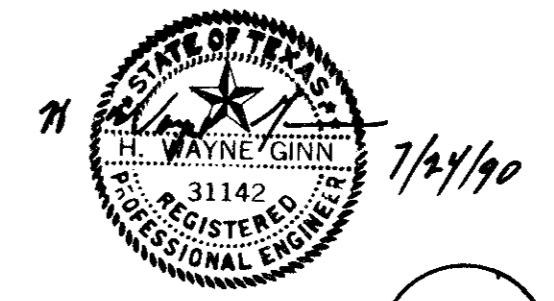
**EMBEDMENT DETAILS FOR WATER MAIN**



**EMBEDMENT DETAIL FOR STORM SEWER**

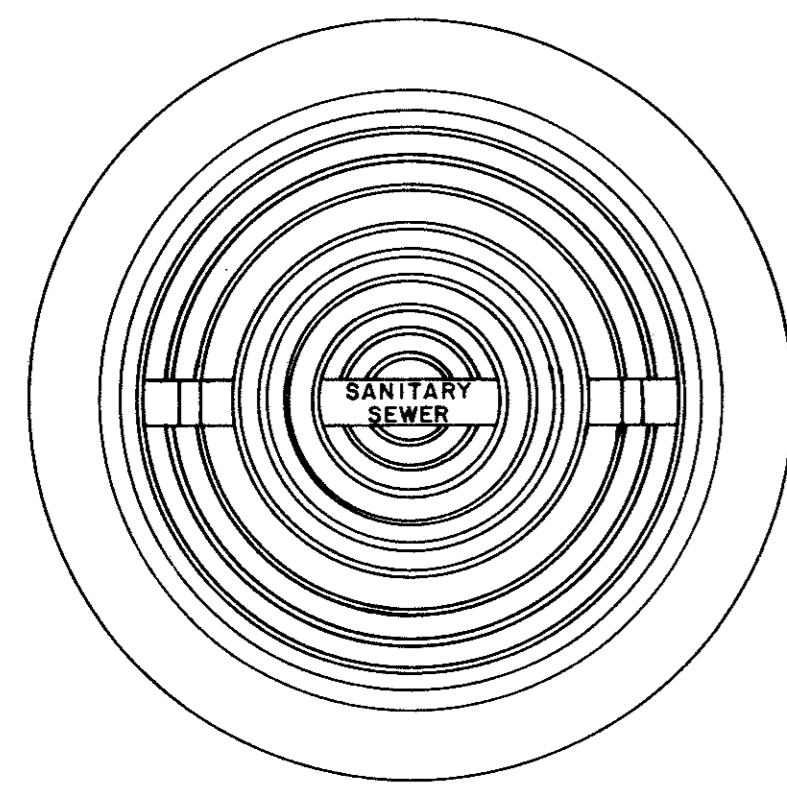


**DETAIL OF UTILITY SUPPORT**



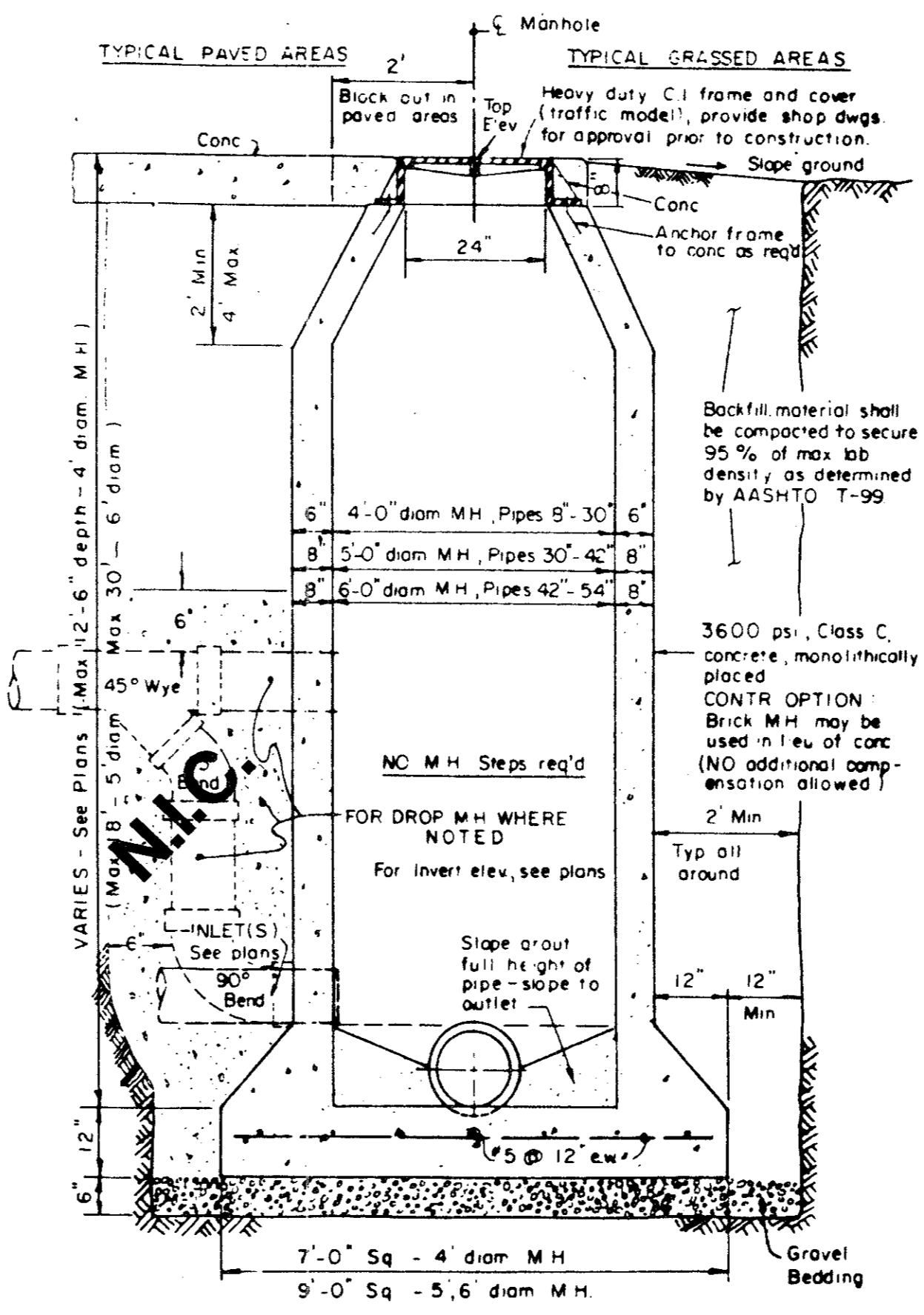
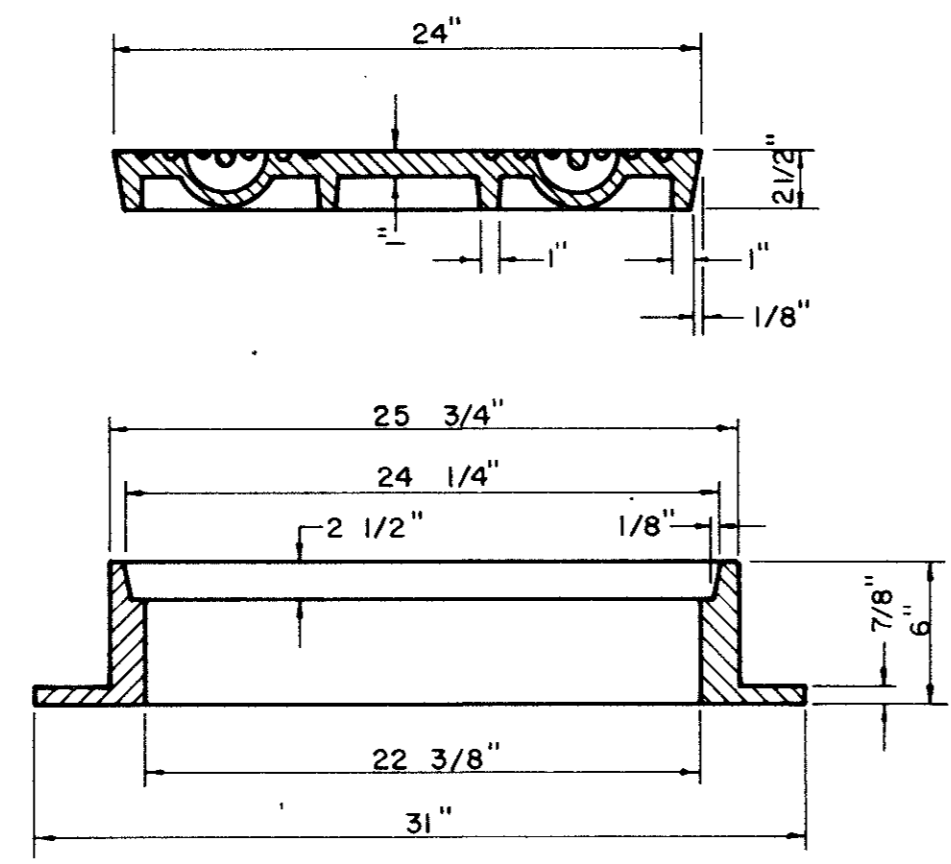
No.	Revision	By	Date
<b>STANDARD CONSTRUCTION DETAILS</b>			
<b>EMBEDMENT DETAILS</b>			
<b>GINN, INC.</b>			
Consulting Engineers Dallas, Texas			
Designed - GINN	Drawn - GINN	Date - June, 1990	Job No. - 90443
Approved - GINN	Checked - GINN	Scale - N.T.S.	Sheet SB of 10

SD20



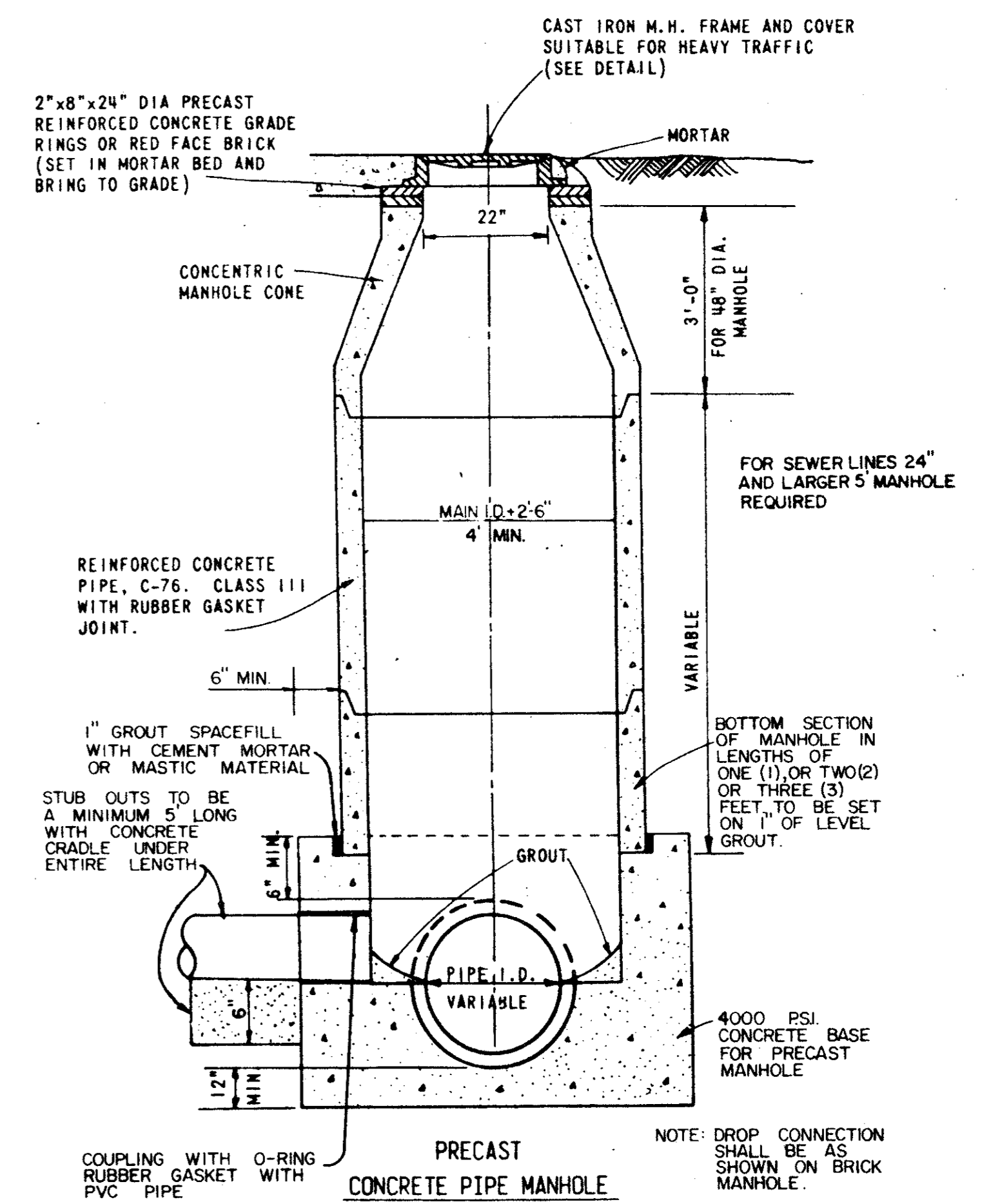
APPROX. WEIGHT RING AND COVER 385 LBS.

CAST IRON GRATE AND FRAME DETAIL

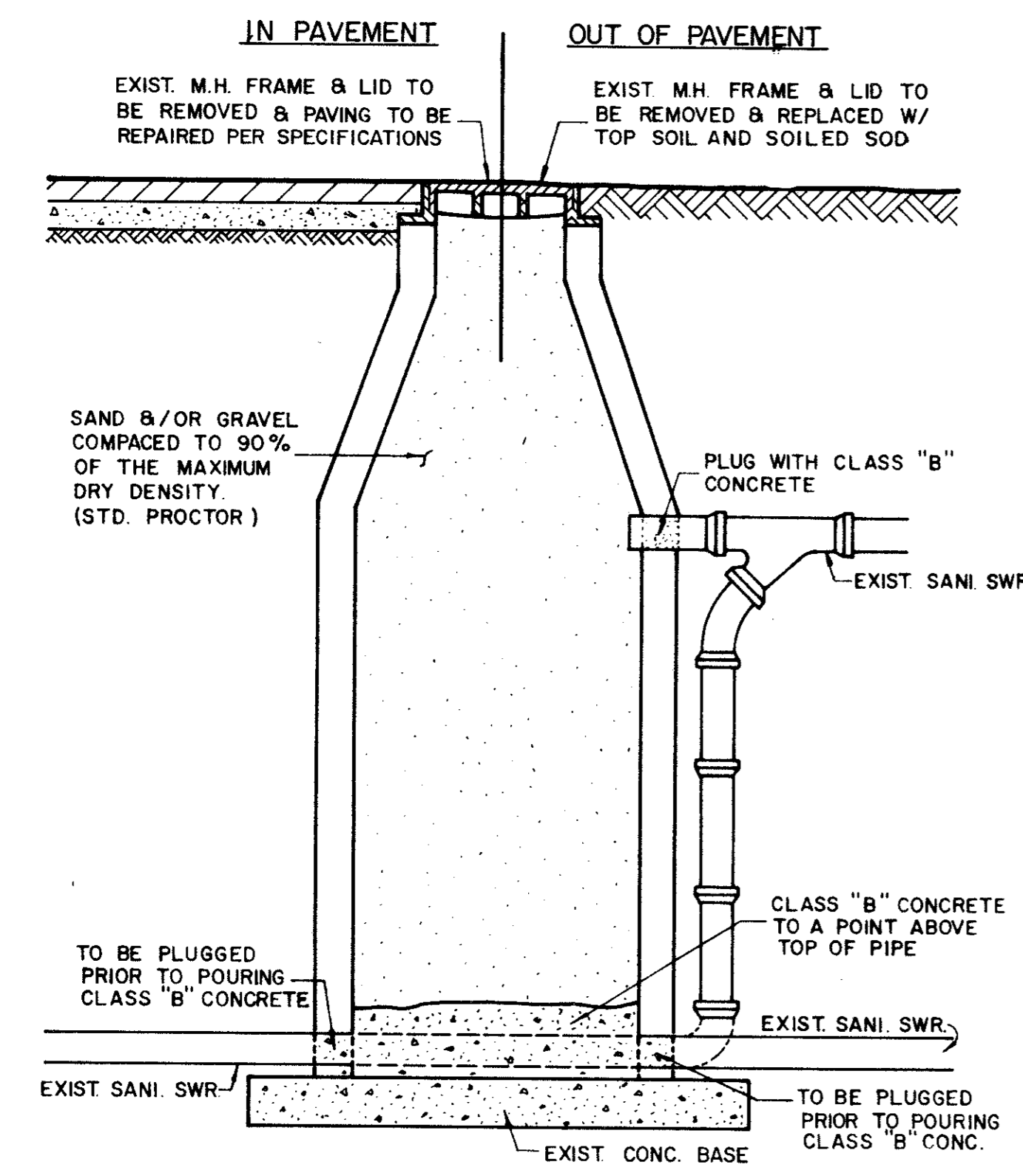


CAST IN PLACE MANHOLE

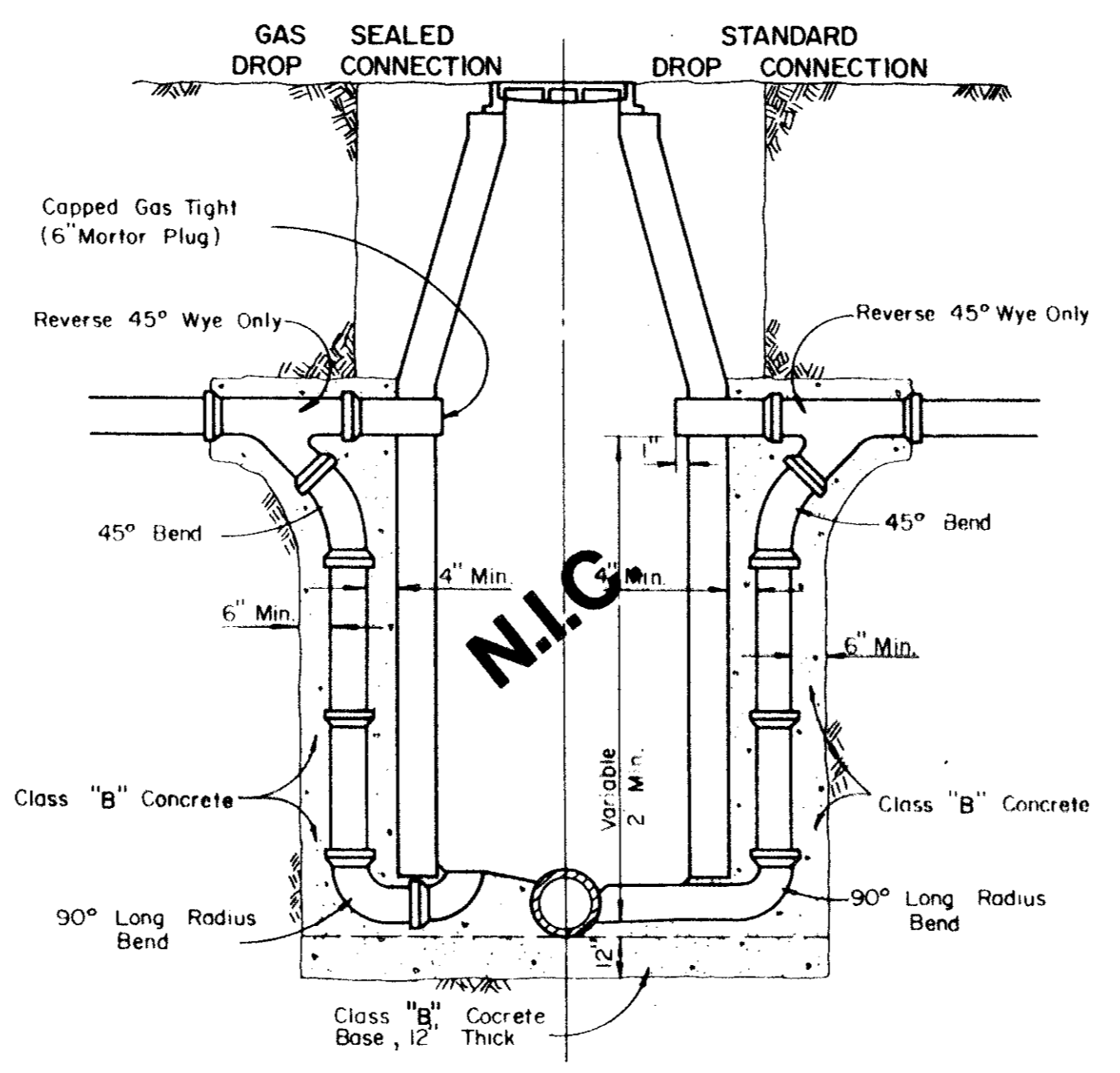
WHERE DROP M.H. IS REQUIRED, USE INSIDE DROP CONNECTION AS PER TOWN OF ADDISON STANDARDS.



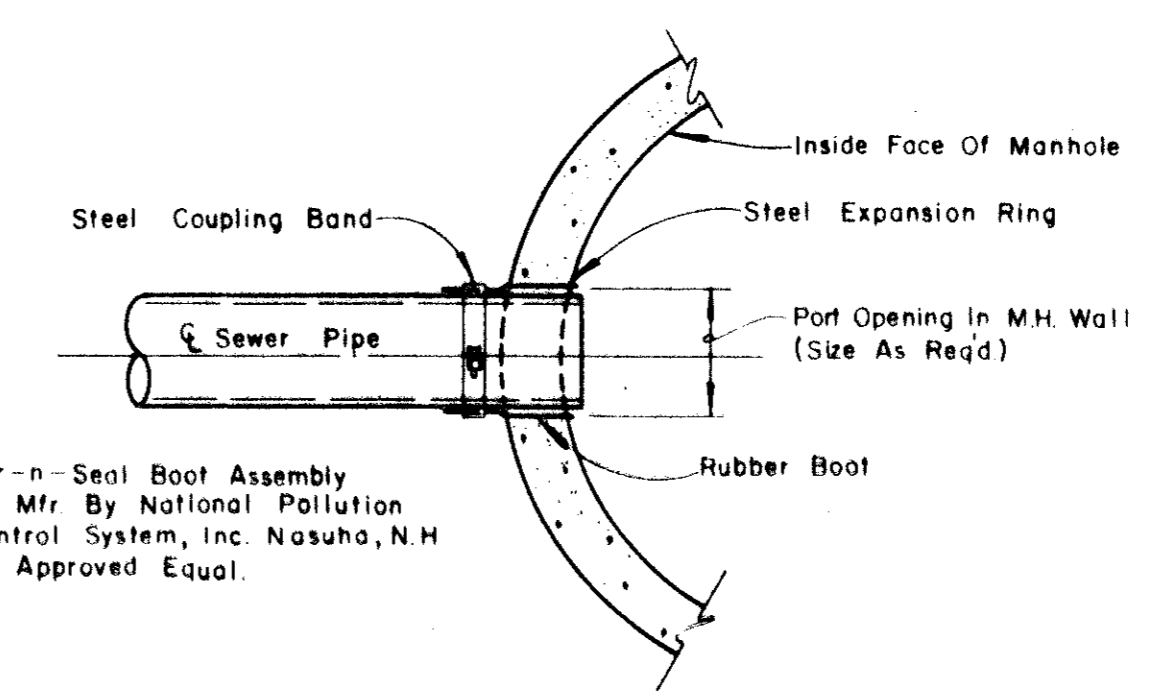
PRECAST MANHOLE



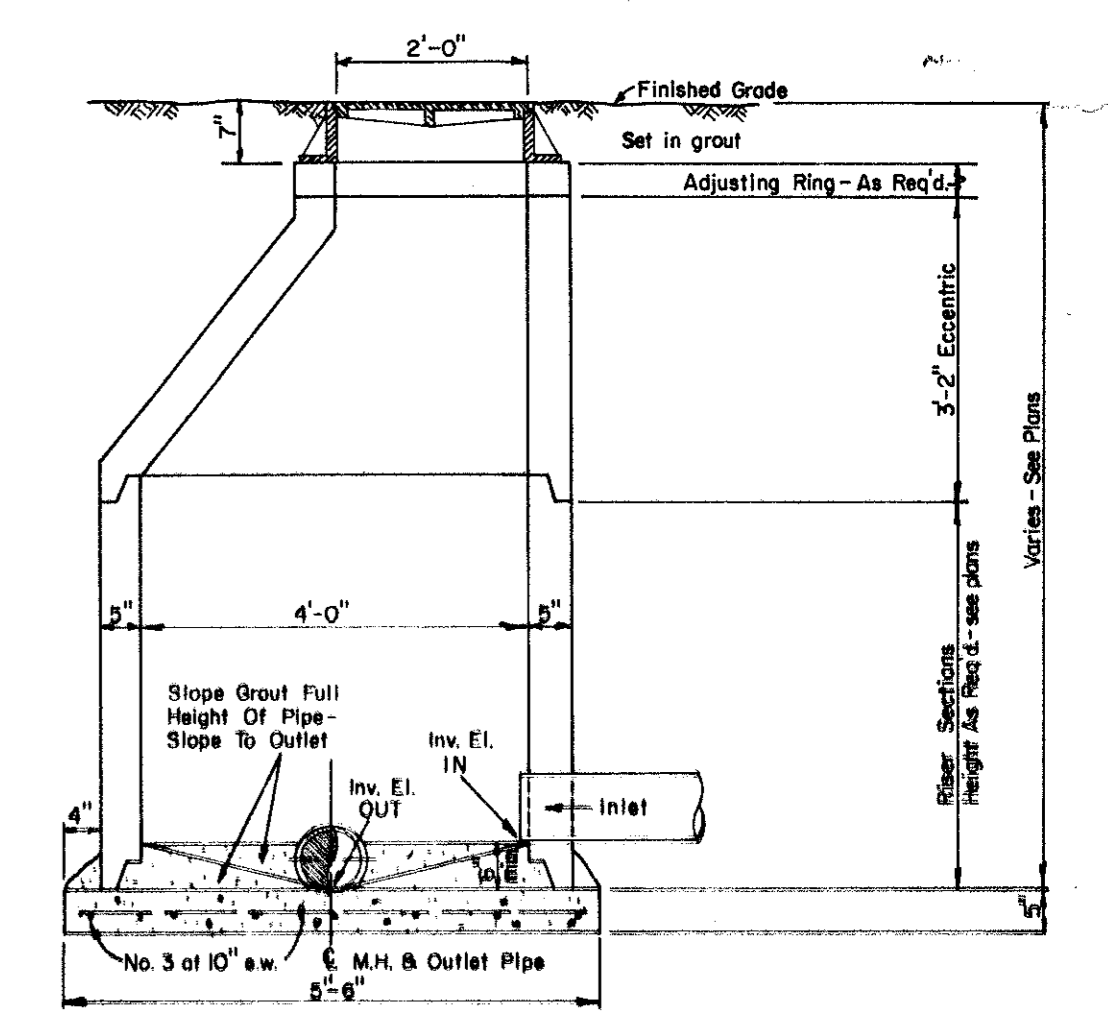
ABANDONMENT OF EXISTING MANHOLE IN AND OUT OF PAVEMENT



DROP CONNECTIONS FOR SANITARY SEWER MANHOLES

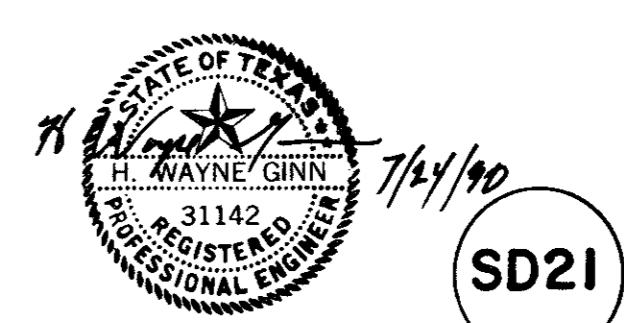


TYPICAL SEWER CONNECTION AT MANHOLE



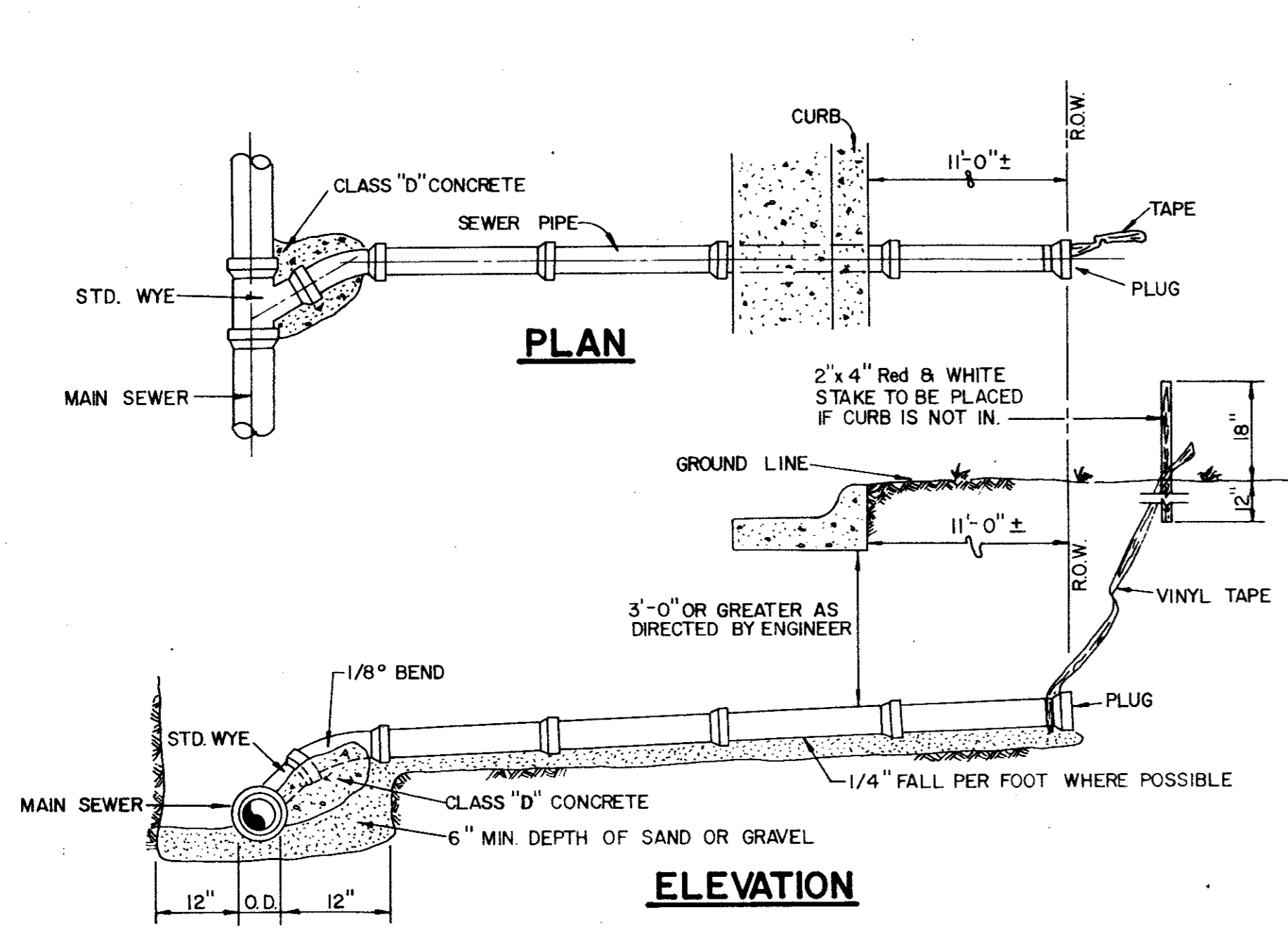
ECCENTRIC MANHOLE DETAIL

CLASS B Conc. - 2000psi at 28 days (Compressive)

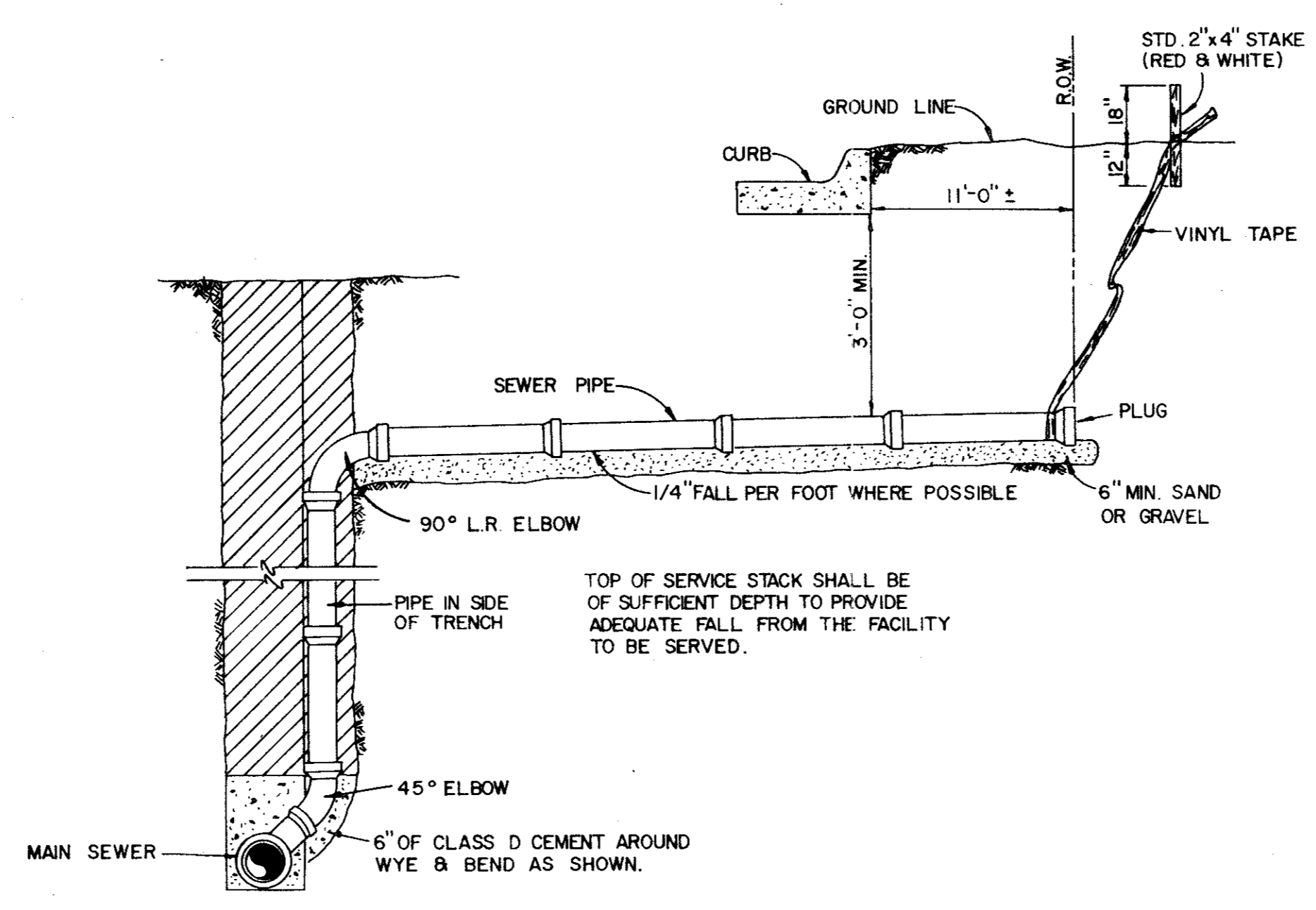


No.	Revision	By	Date
<b>STANDARD CONSTRUCTION DETAILS</b>			
<b>SANITARY SEWER</b>			
<b>MANHOLES AND CONNECTIONS</b>			
<b>GINN, INC.</b>			
Consulting Engineers Dallas, Texas			
Designed - GINN	Drawn - GINN	Date - June, 1990	Job No. - 90443
Approved - GINN	Checked - GINN	Scale - None	Sheet S9 of 10

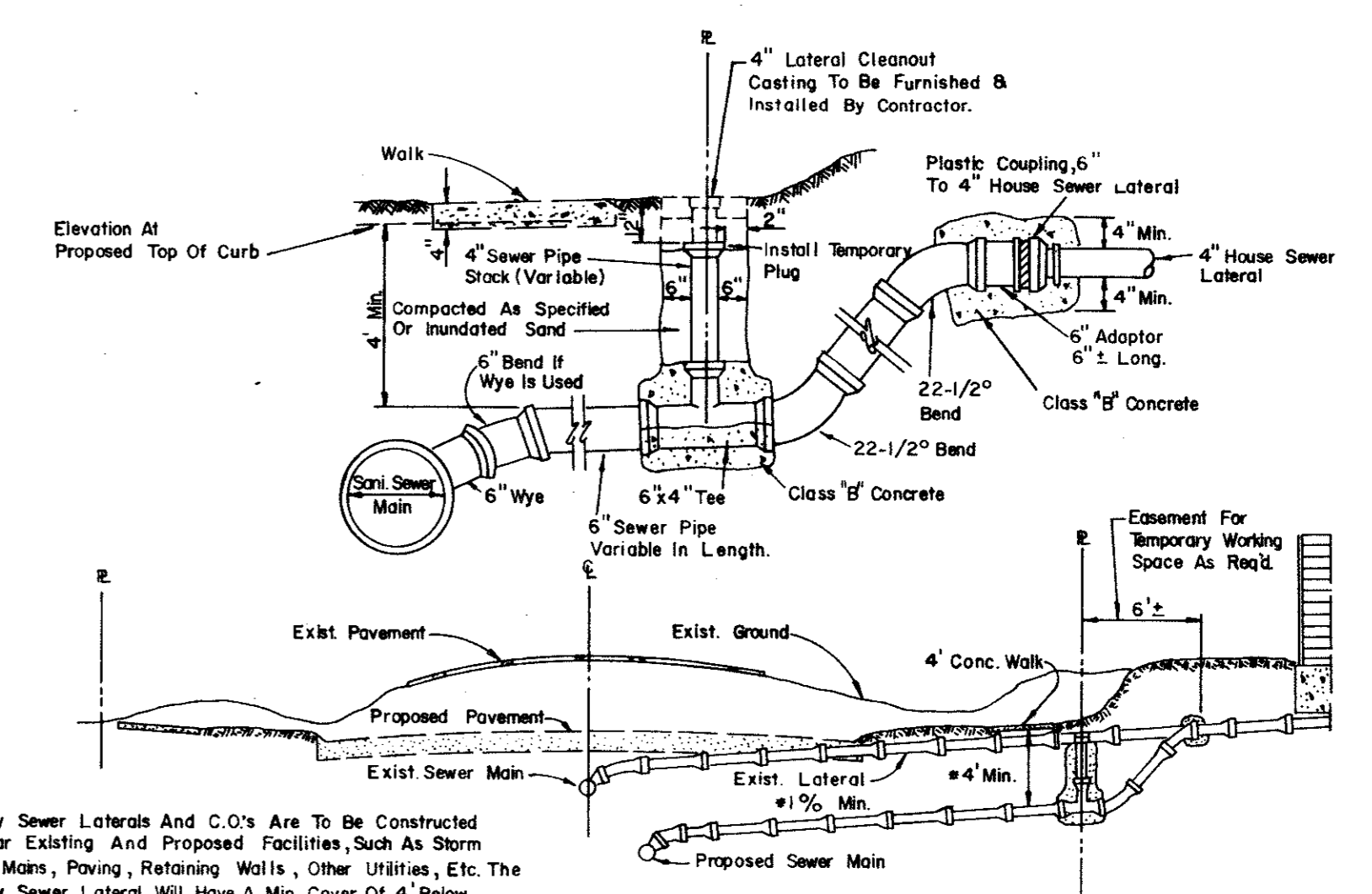




**SANITARY SEWER SERVICE CONNECTION**

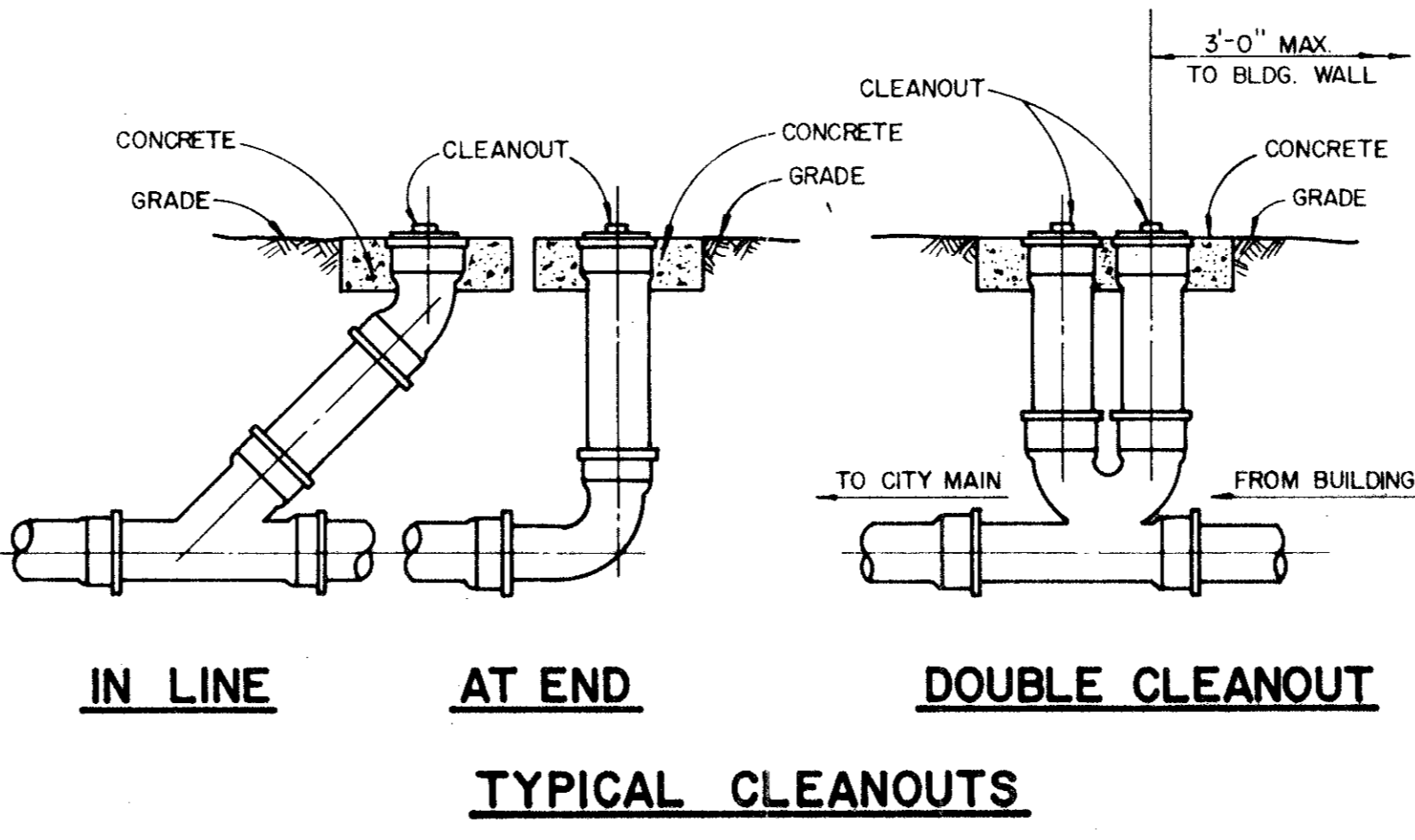
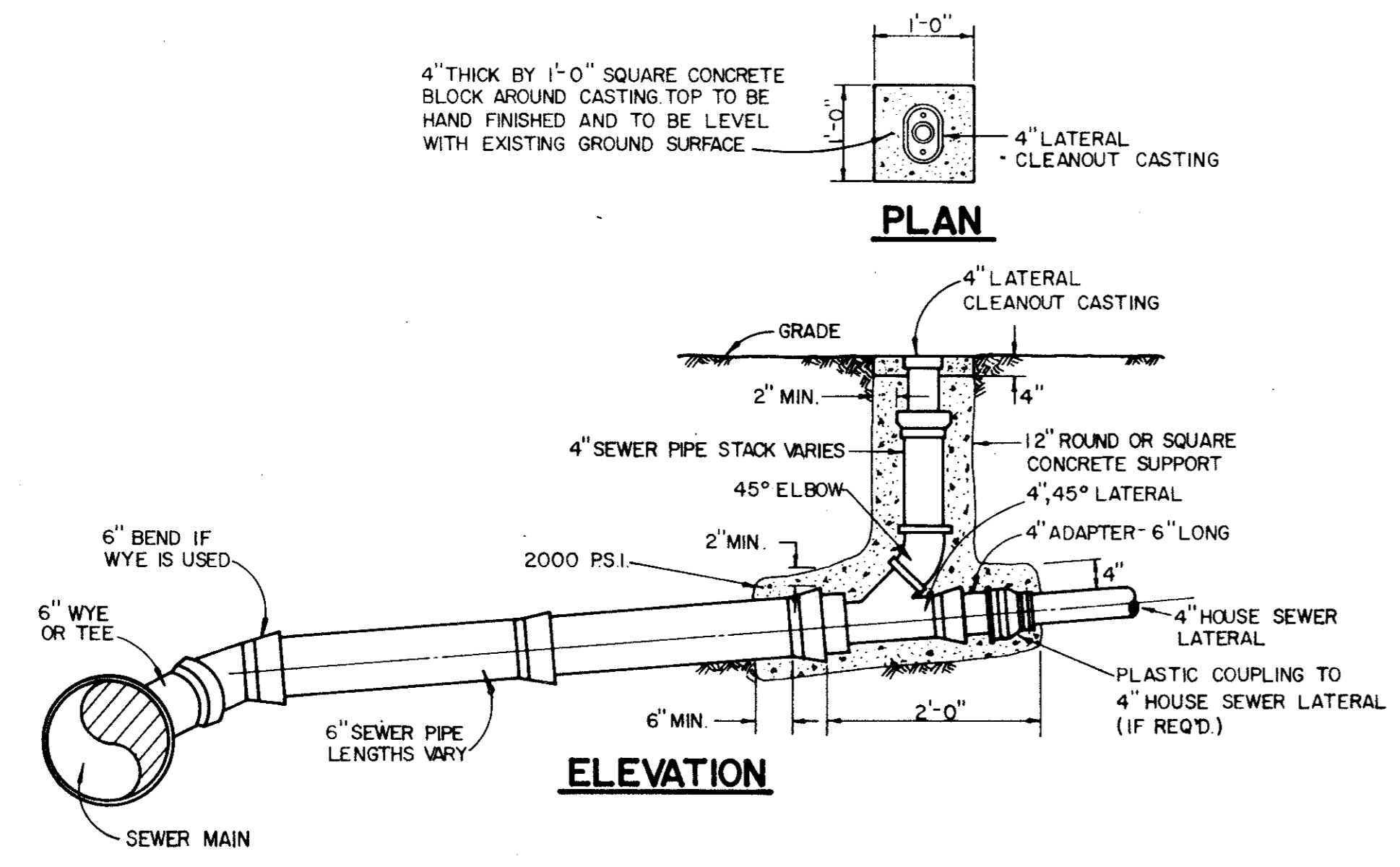


**SANITARY SEWER DEEP SERVICE CONNECTION**



**SANITARY SEWER LATERAL REPLACEMENT**

NOTE:  
Cleanout To Be Installed On Property Line Except As Required To Avoid Conflict With Existing Or Proposed Facilities In Which Case The Location Shall Be Determined By The Engineer.



**TYPICAL CLEANOUTS**

ALL PVC SANITARY SEWER PIPE TO BE SDR 35 WITH INTEGRAL BELL. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD LOCATE HORIZONTALLY EACH 4' SERVICE IN RELATION TO THE SANITARY SEWER STATIONING. FIELD TIES ARE TO BE INCLUDED AND RECORDED ON ALUMINIZED SANITARY SEWER TAPE. THIS TAPE, GREEN OR RED IN COLOR IS TO BE ATTACHED TO THE 4' SERVICE AT THE ROW LINE AND BROUGHT TO THE SURFACE TO BE USED AS A PERMANENT MARKER.



No.	Revision	Date
<b>STANDARD CONSTRUCTION DETAILS</b>		
<b>SANITARY SEWER</b>		
<b>LATERALS AND CLEANOUTS</b>		
<b>GINN, INC.</b>		
Consulting Engineers Dallas, Texas		
Designed - GINN	Drawn - GINN	Date - June, 1990
Approved - GINN	Checked - GINN	Scale - None
		Job No. - 9443
		Sheet 510 of 10

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