

CONSTRUCTION PLANS FOR

MILDRED STREET IMPROVEMENTS

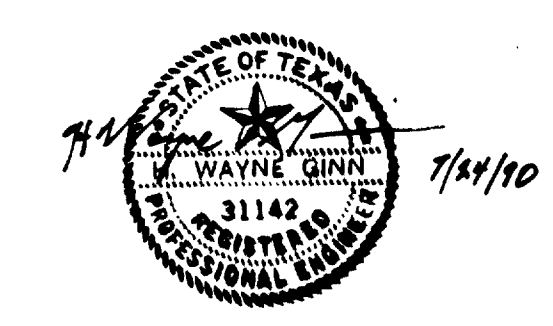
As Built

- MAYOR:**
D. LYNN SPRULL
- 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

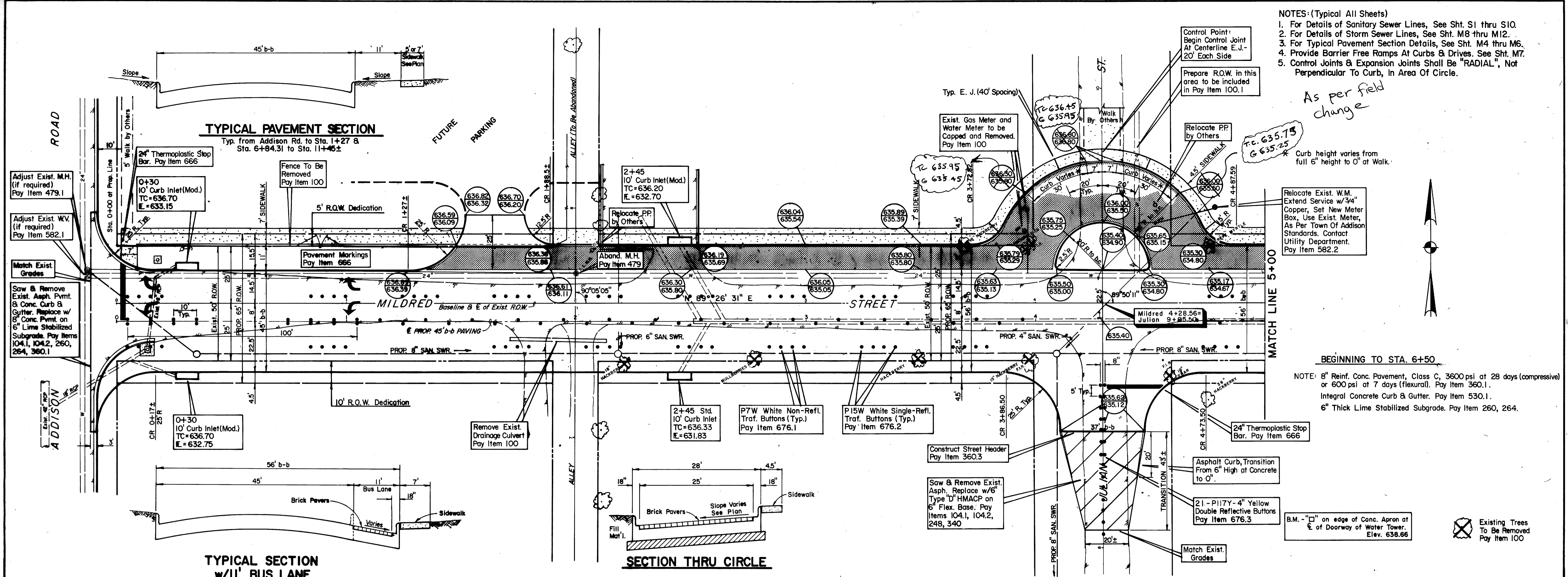
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APPROVED BY: _____ DATE: _____
D. LYNN SPRULL, MAYOR



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.

TYPICAL PAVEMENT SECTION

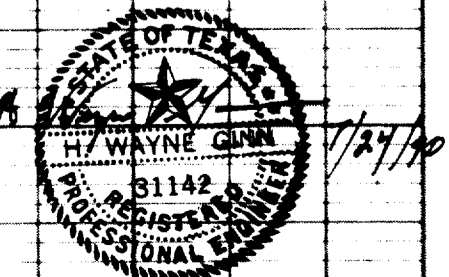
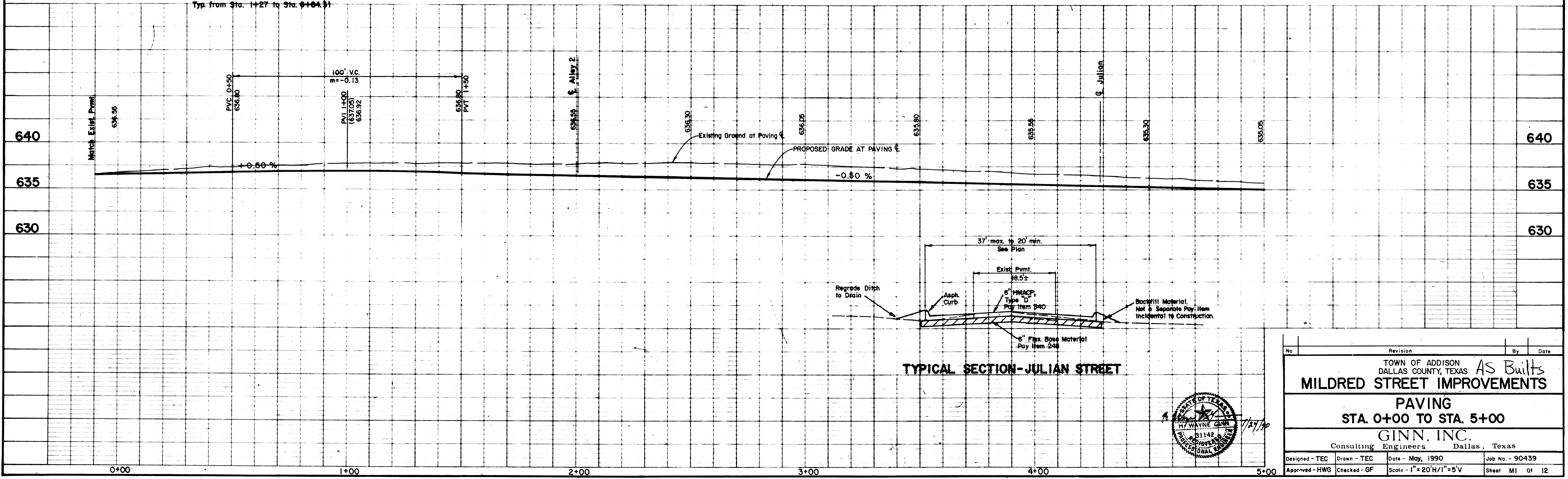
Typ. from Addison Rd. to Sta. 1+27 & Sta. 6+84.31 to Sta. 11+45±

TYPICAL SECTION w/11' BUS LANE

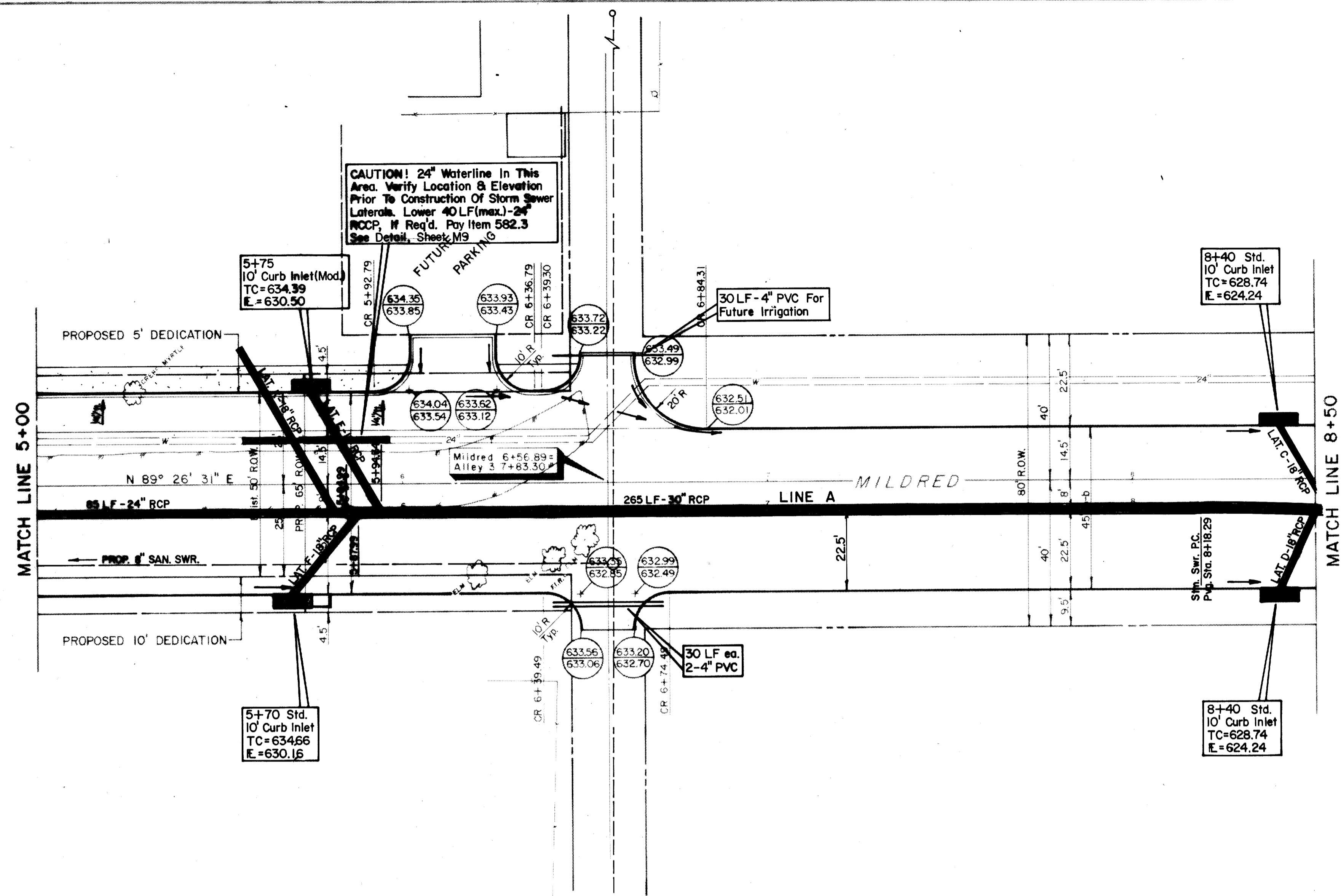
Typ. from Sta. 1+27 to Sta. 6+84.31

SECTION THRU CIRCLE

TYPICAL SECTION - JULIAN STREET

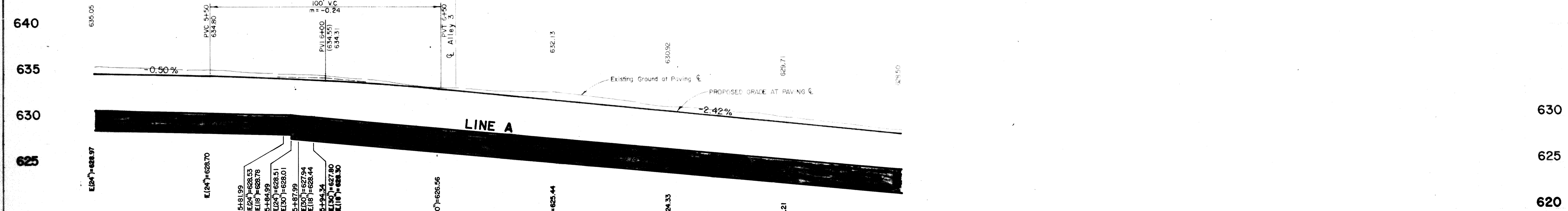


| No. | Revision | By | Date |
|--|--------------|----------------------------|-----------------|
| TOWN OF ADDISON DALLAS COUNTY, TEXAS MILDRED STREET IMPROVEMENTS PAVING STA. 0+00 TO STA. 5+00 GINN, INC. Consulting Engineers Dallas, Texas | | | |
| Designed - TEC | Drawn - TEC | Date - May, 1990 | Job No. - 90439 |
| Approved - HWG | Checked - GF | Scale - 1" = 20'H/1" = 5'V | Sheet M1 of 12 |

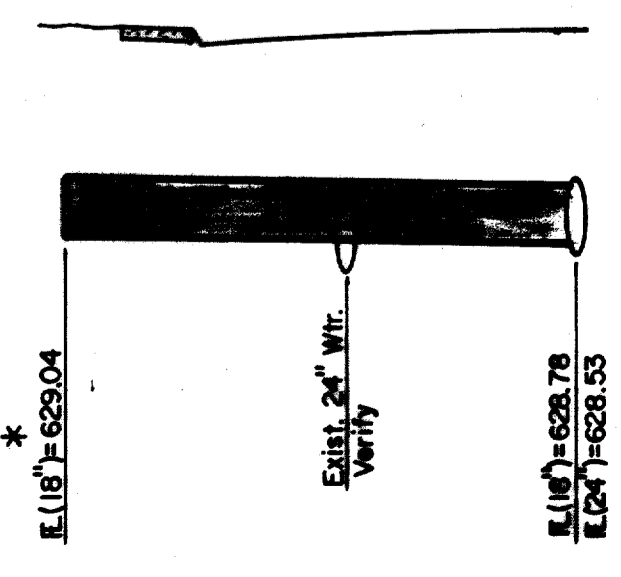


Storm Sewer
 Curve Data
 $\Delta = 07^{\circ} 00' 52''$
 $R = 815.81'$
 $L = 99.86'$
 $T = 50.00'$

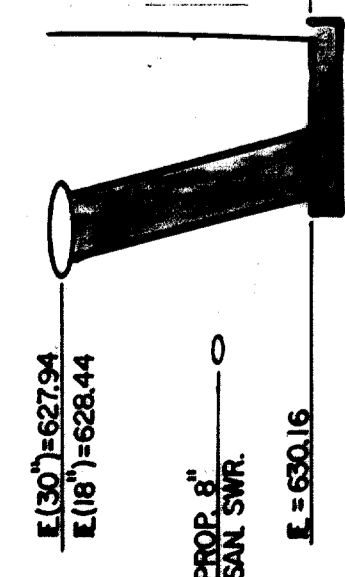
B.M. - "□" on edge of Conc. Apron at
 E. of Doorway of Water Tower.
 Elev. 638.66



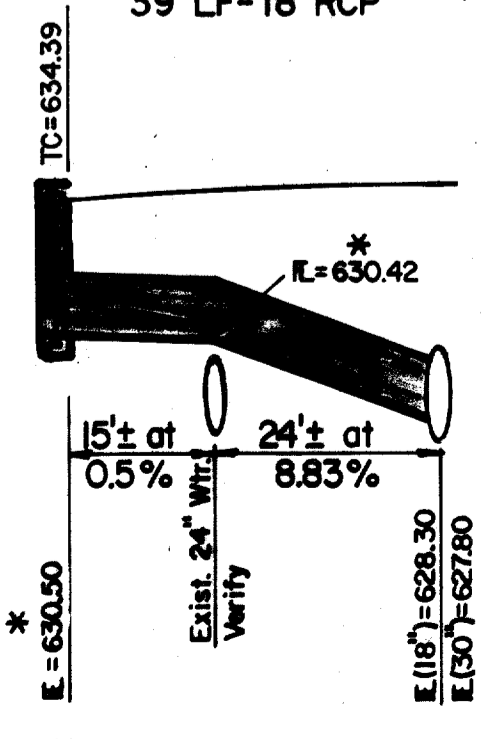
LAT. K
 53 LF - 18"
 RCP at 0.50%



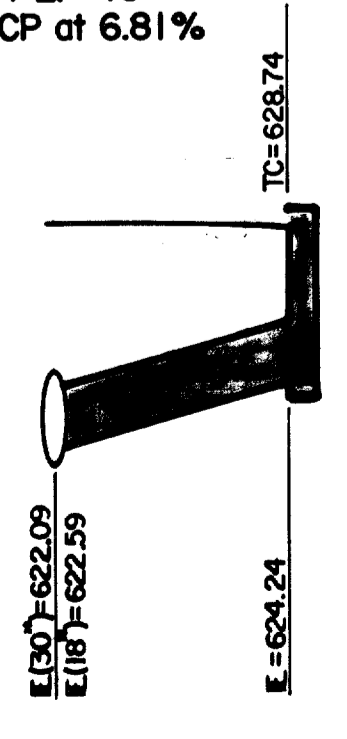
LAT. F
 29 LF - 18"
 RCP at 5.97%



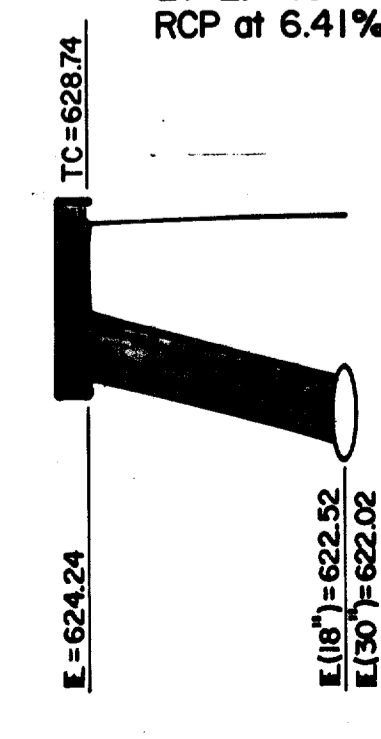
LAT. E
 39 LF - 18"
 RCP



LAT. D
 24 LF - 18"
 RCP at 6.81%

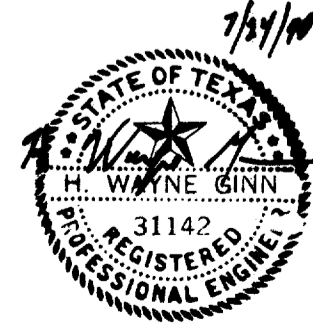


LAT. C
 27 LF - 18"
 RCP at 6.41%



* NOTE: E. of Inlet and Lat. E & Lat. K
 pipe at 24" WL. will be field adjusted
 as condition dictate. Contractor to
 ascertain top pipe elevation of WL
 prior to construction of Lats. E & K.

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



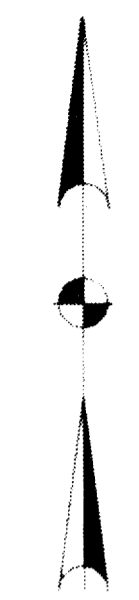
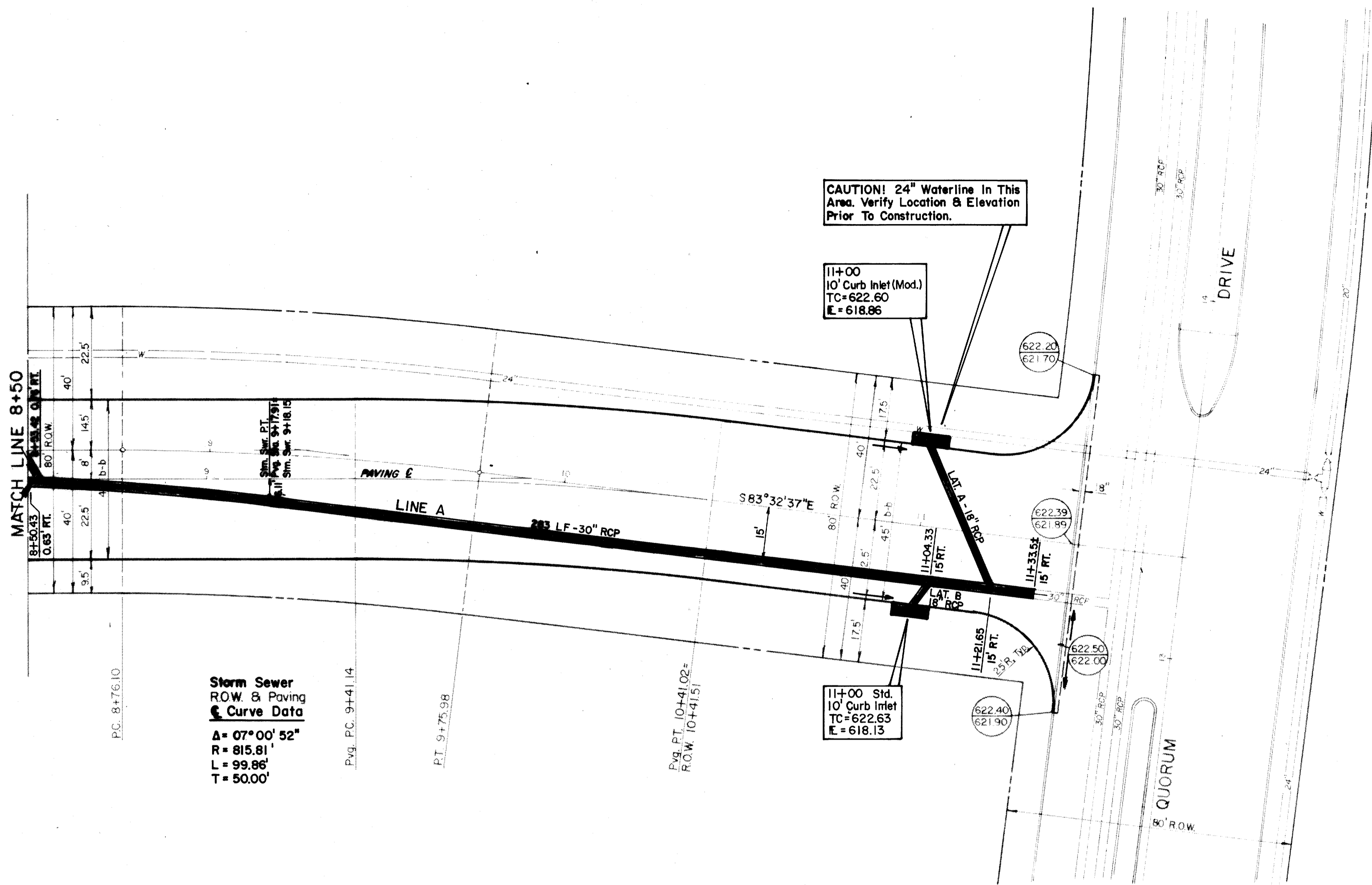
| | | | |
|--|--------------|--------------------------------|-----------------|
| No. | Revision | By | Date |
| TOWN OF ADDISON DALLAS COUNTY, TEXAS MILDRED STREET IMPROVEMENTS DRAINAGE STA. 5+00 TO STA. 8+50 GINN, INC. Consulting Engineers Dallas, Texas | | | |
| Designed - TEC | Drawn - TEC | Date - May, 1990 | Job No. - 90439 |
| Approved - HWG | Checked - GF | Scale - 1" = 20' H / 1" = 5' V | Sheet M10 of 12 |

5+00

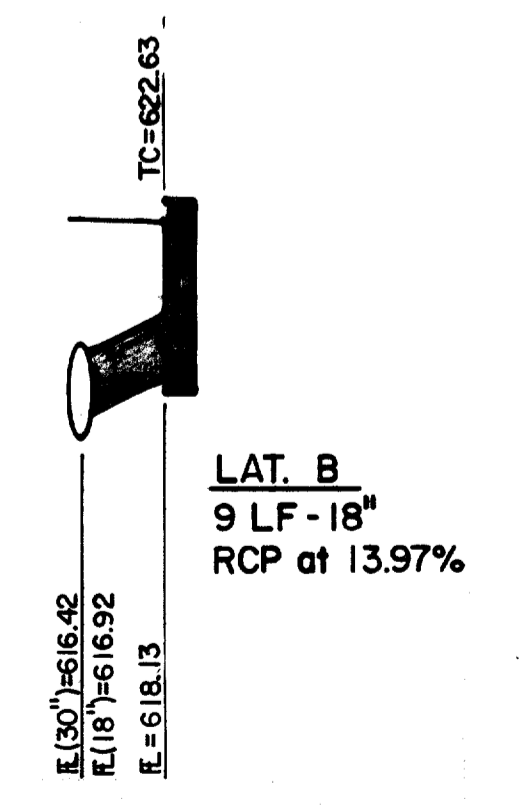
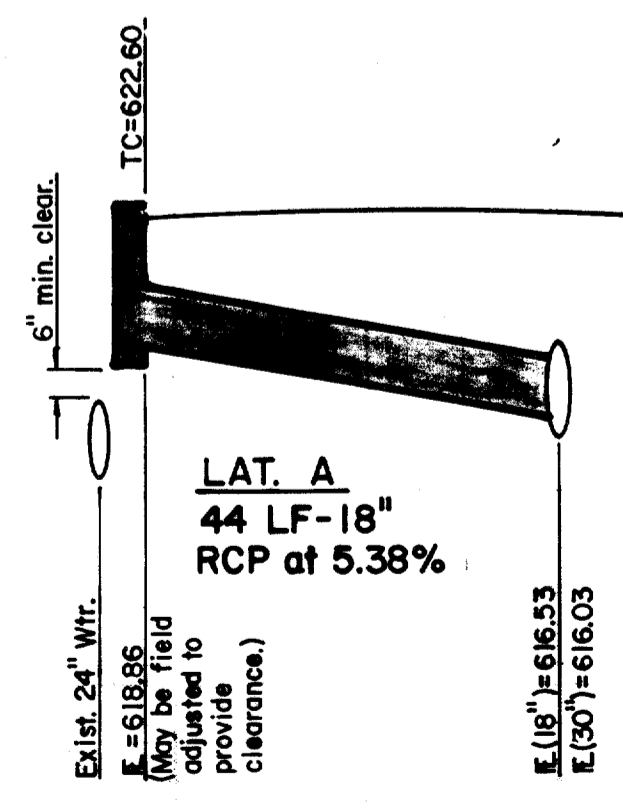
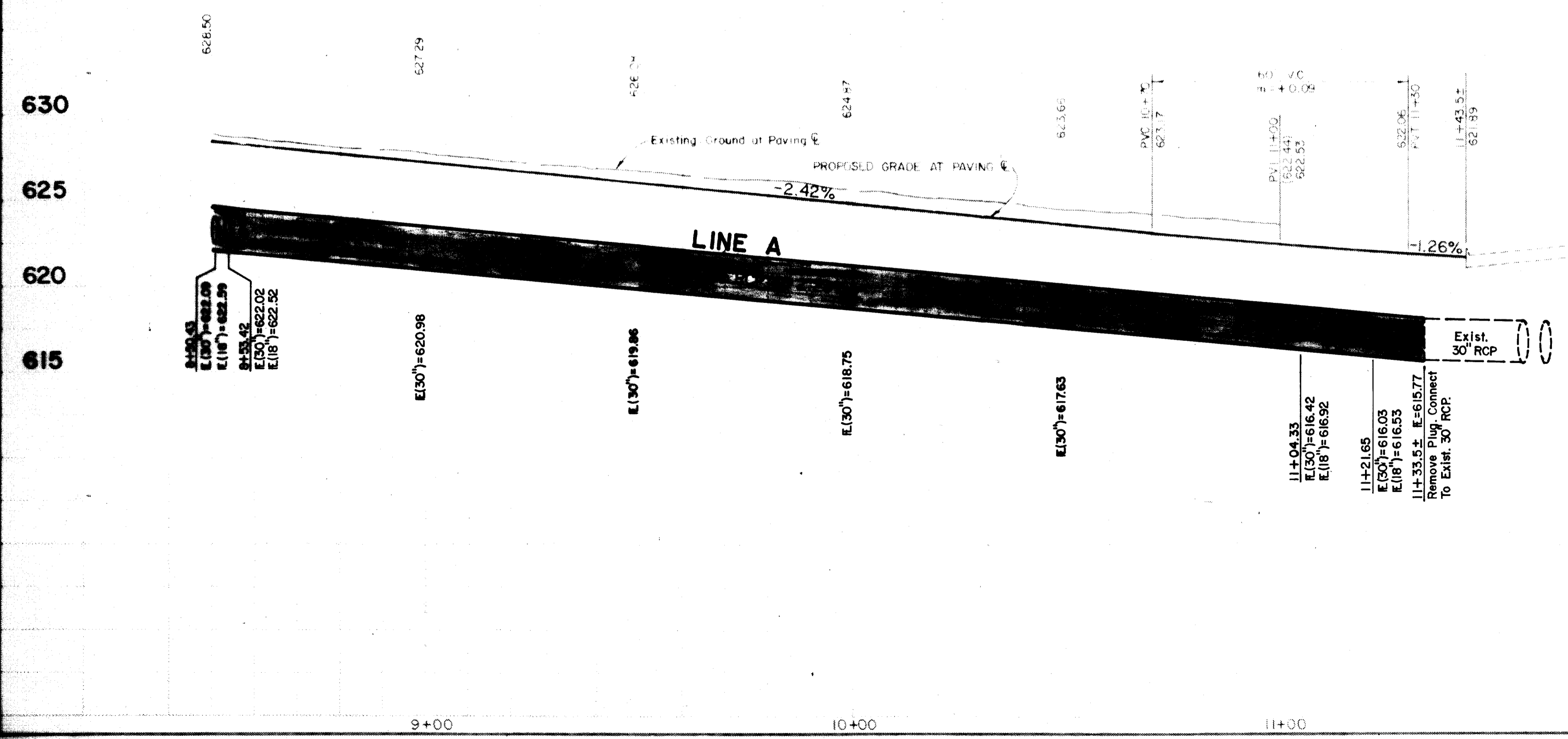
6+00

7+00

8+00

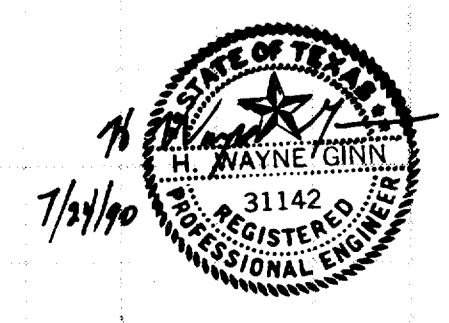


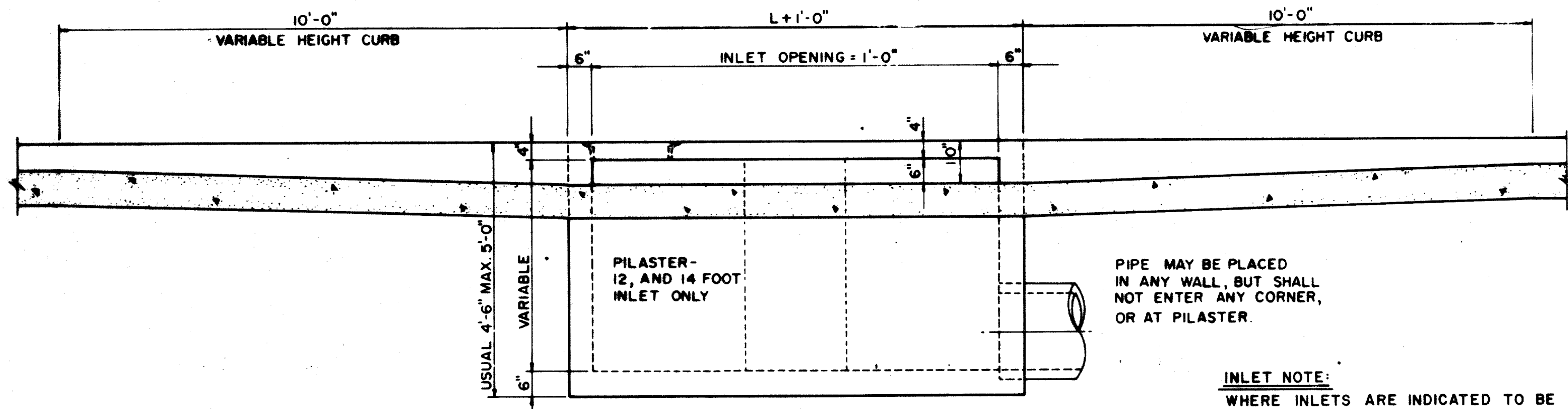
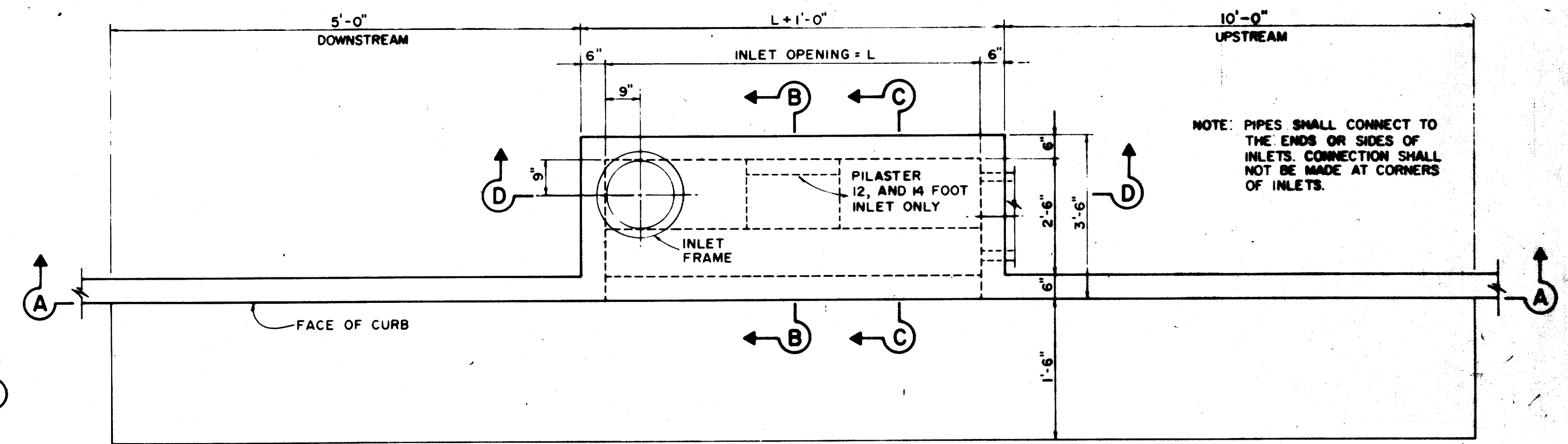
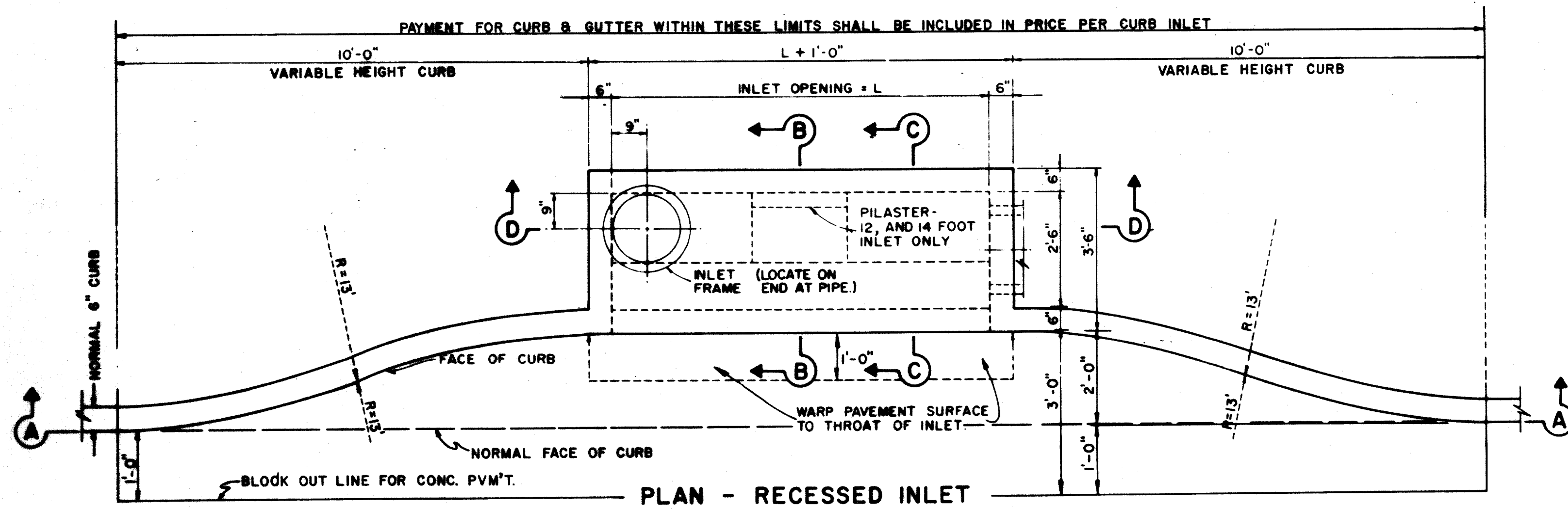
B.M. - "1" on edge of Conc. Apron at E of Doorway of Water Tower
 Elev. 638.68



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

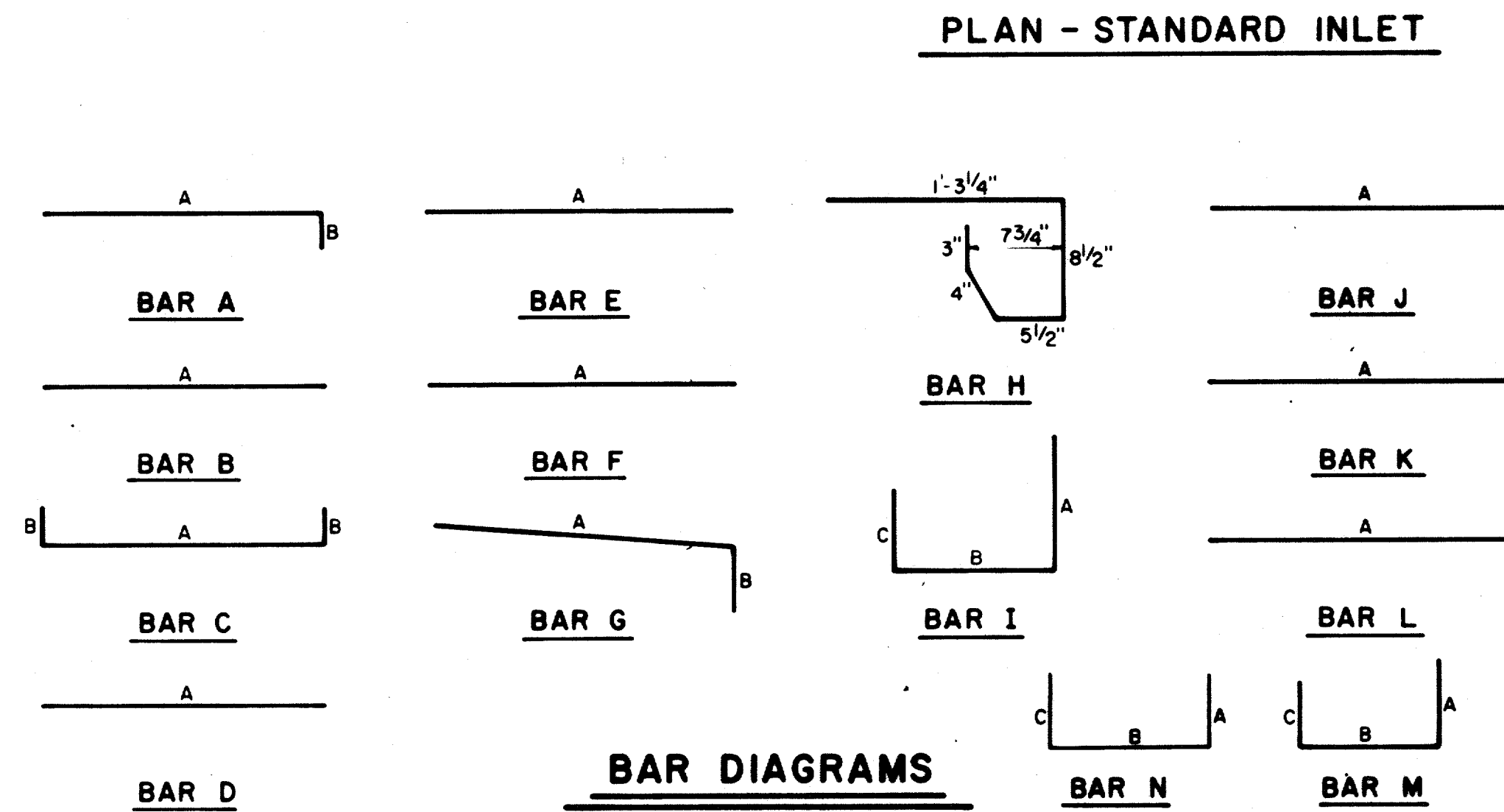
| No. | Revision | By | Date |
|--|--------------|--------------------------|-----------------|
| TOWN OF ADDISON DALLAS COUNTY, TEXAS MILDRED STREET IMPROVEMENTS DRAINAGE STA. 8+50 TO STA. 11+45± GINN, INC. Consulting Engineers Dallas, Texas | | | |
| Designed - TEC | Drawn - TEC | Date - May, 1990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





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

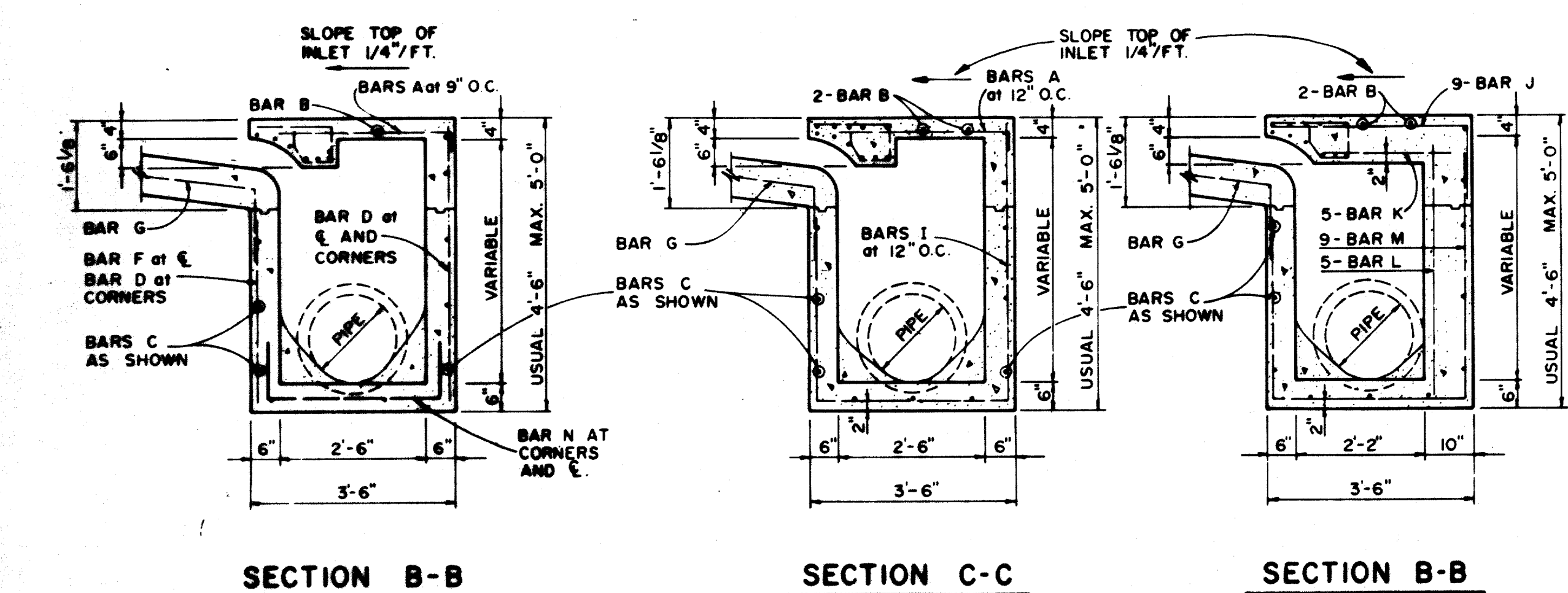
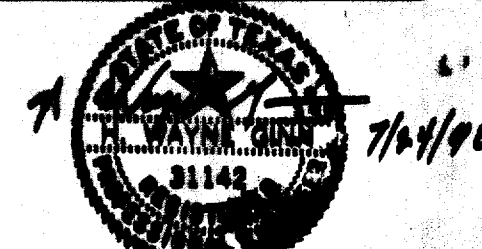
INLET NOTE:
WHERE INLETS ARE INDICATED TO BE MODIFIED, REFER TO PLAN/PROFILE SHEETS FOR ELEV. DIFFERENT SIZES ON MODIFICATIONS. ALL OTHER ITEMS SHALL REMAIN AS SHOWN ON THIS STANDARD DETAIL SHEET.



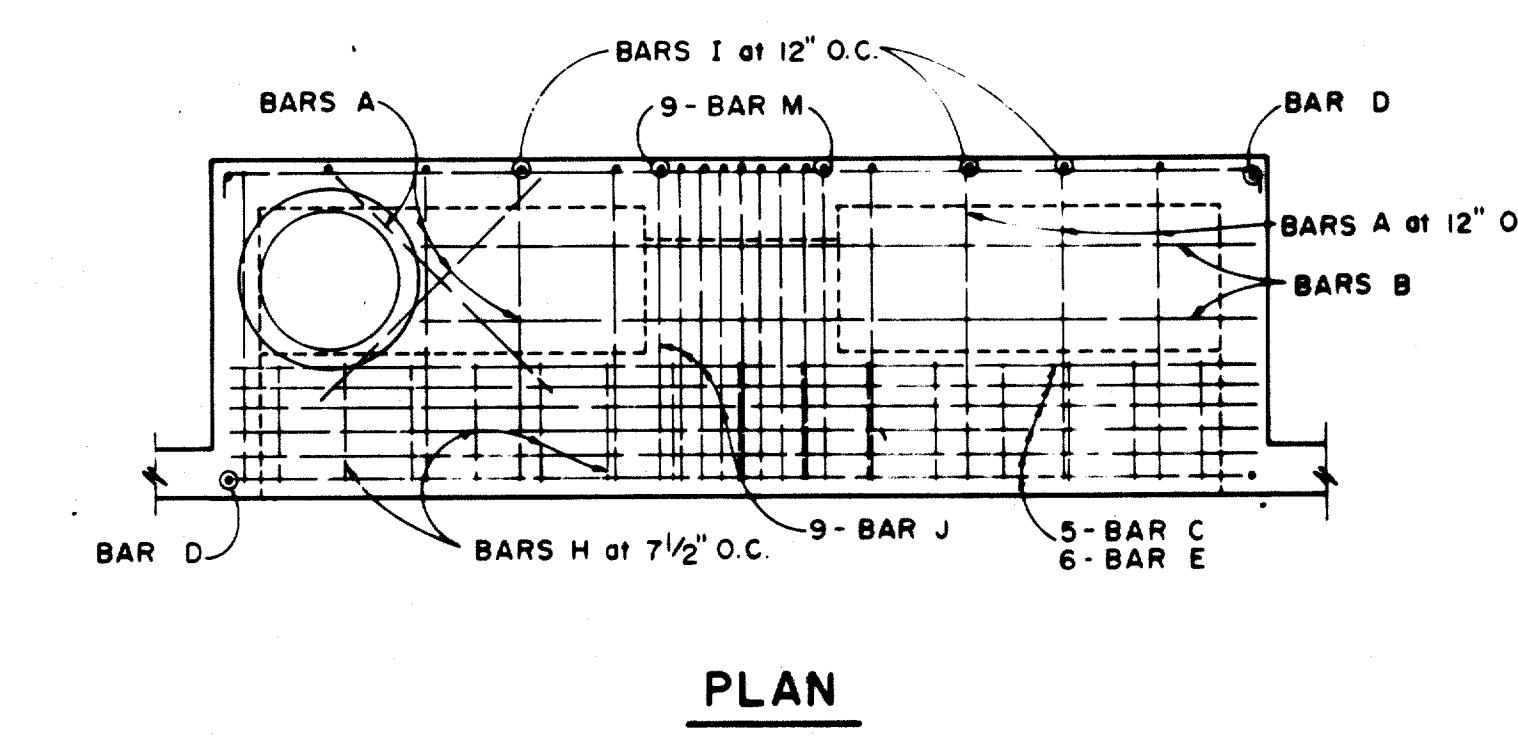
REINFORCING STEEL SCHEDULE

| 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 | 8 | 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 | 8 | 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 | 8 | 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'-2" |
| 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'-2" |

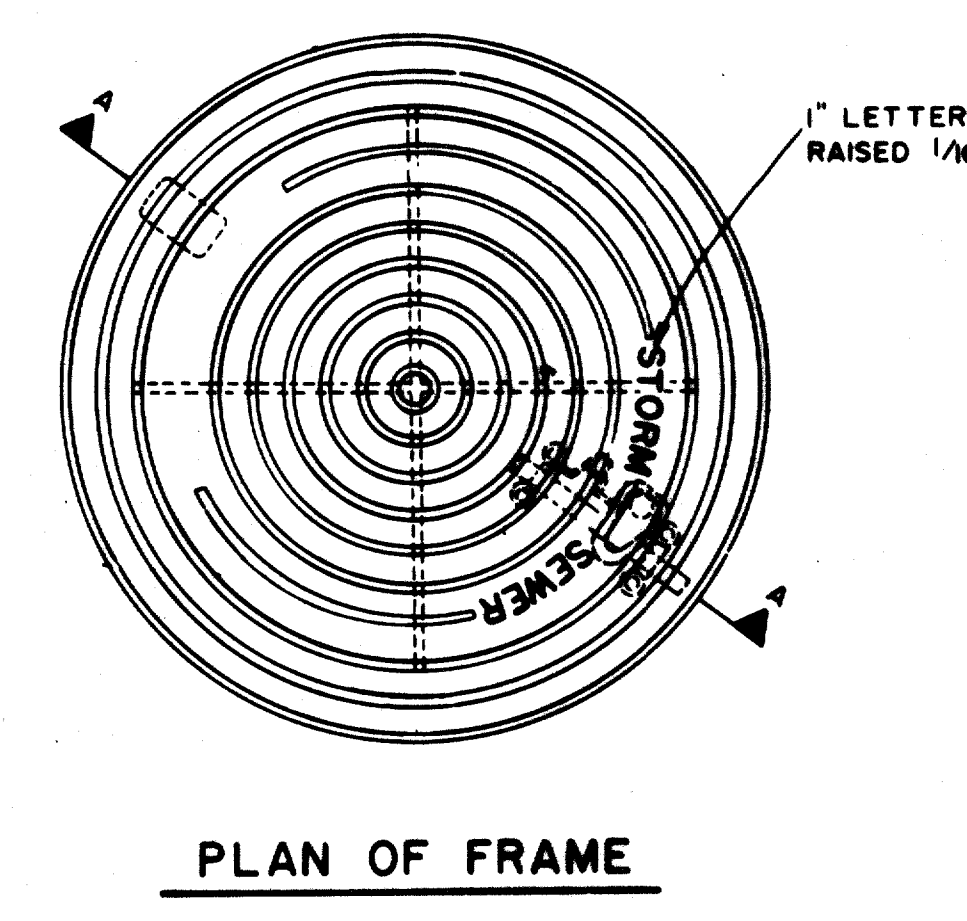
* SEE DIAGRAM FOR DIMENSIONS



SECTION B-B
SECTION C-C
SECTION B-B
SECTION C-C
SECTION C-C
SECTION C-C
4, 6, AND 8 FOOT INLETS
10, 12, AND 14 FOOT INLETS



PLAN
SECTION D-D FOR 12' & 14' ONLY



PLAN OF FRAME
SECTION OF FRAME AND COVER
INLET FRAME AND COVER

STANDARD CONSTRUCTION DETAILS
STORM DRAINAGE

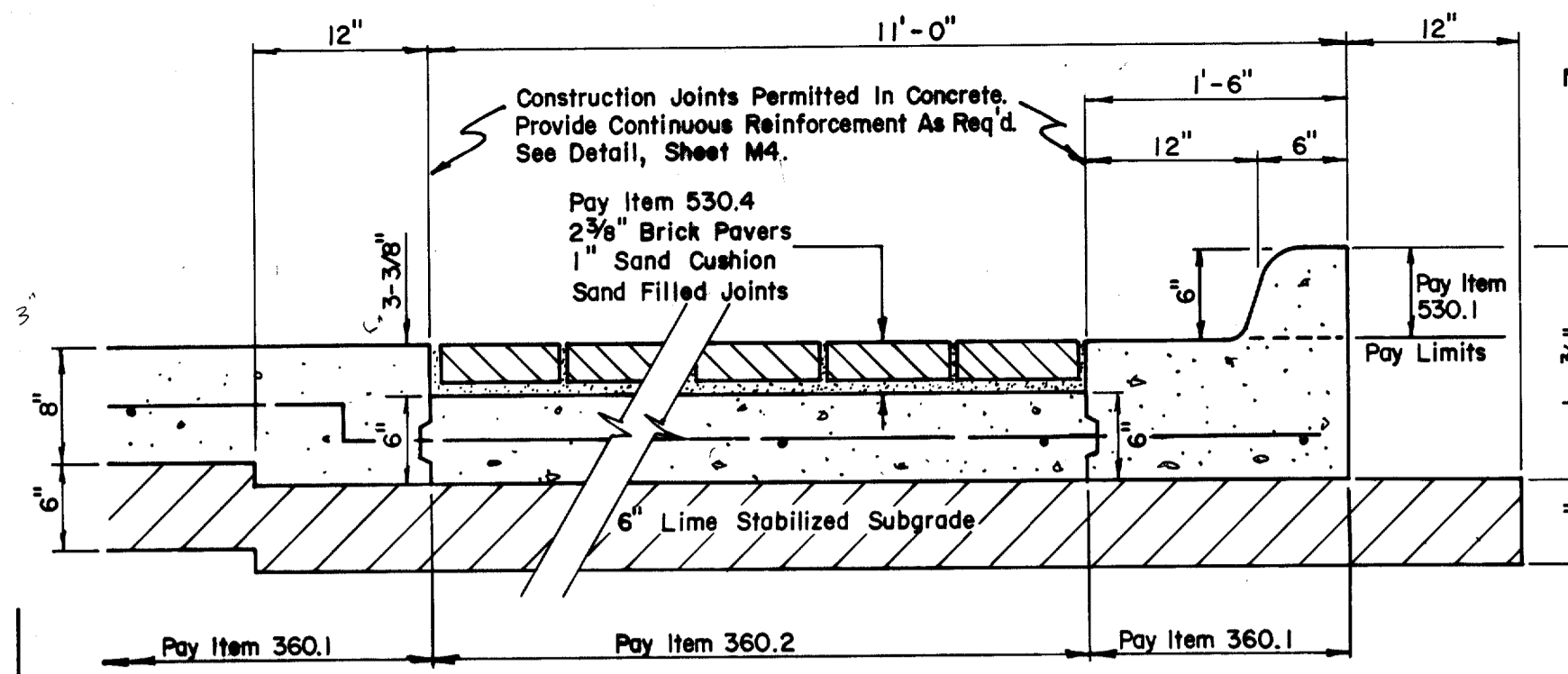
CURB INLETS

GINN, INC.
Consulting Engineers Dallas, Texas

Designed - [] Drawn - [] Date - June, 1990 Job No. - 9045
Approved - [] Checked - [] Date - [] Sheet 712 of []

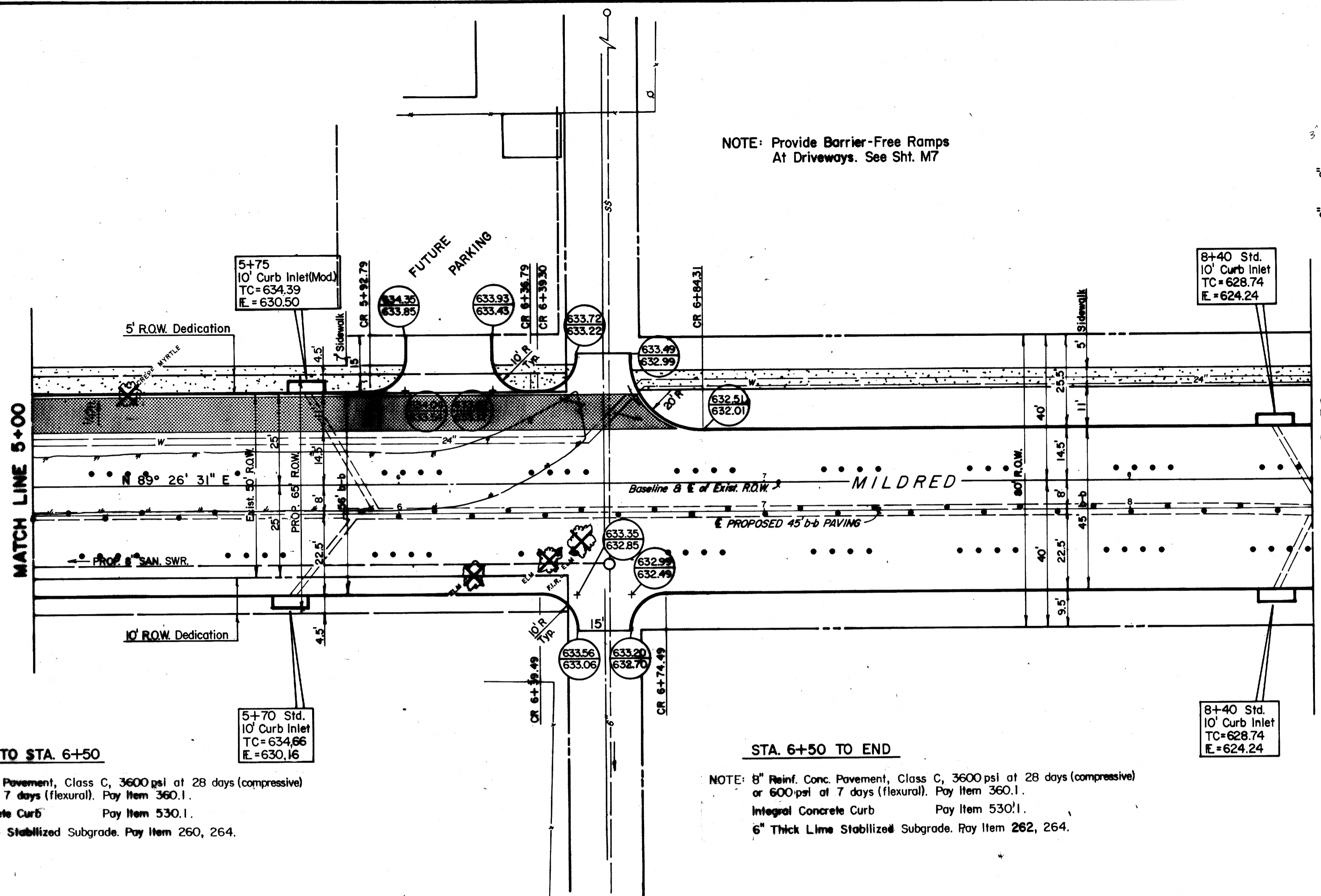


NOTE: Provide Barrier-Free Ramps At Driveways. See Sht. M7



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

BRICK PAVERS DETAIL



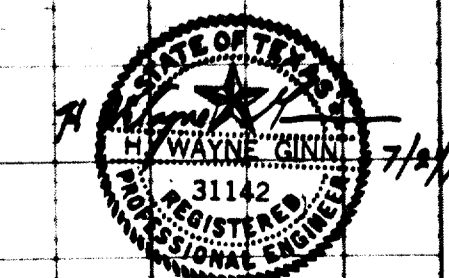
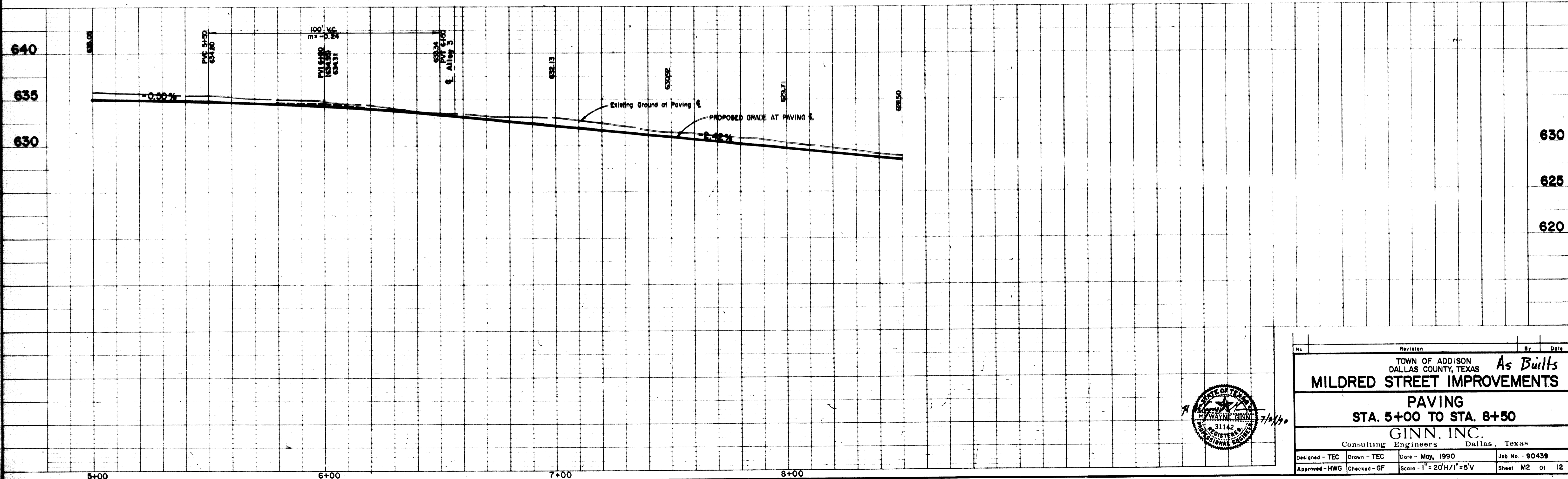
BEGINNING TO STA. 6+50

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 260, 264.

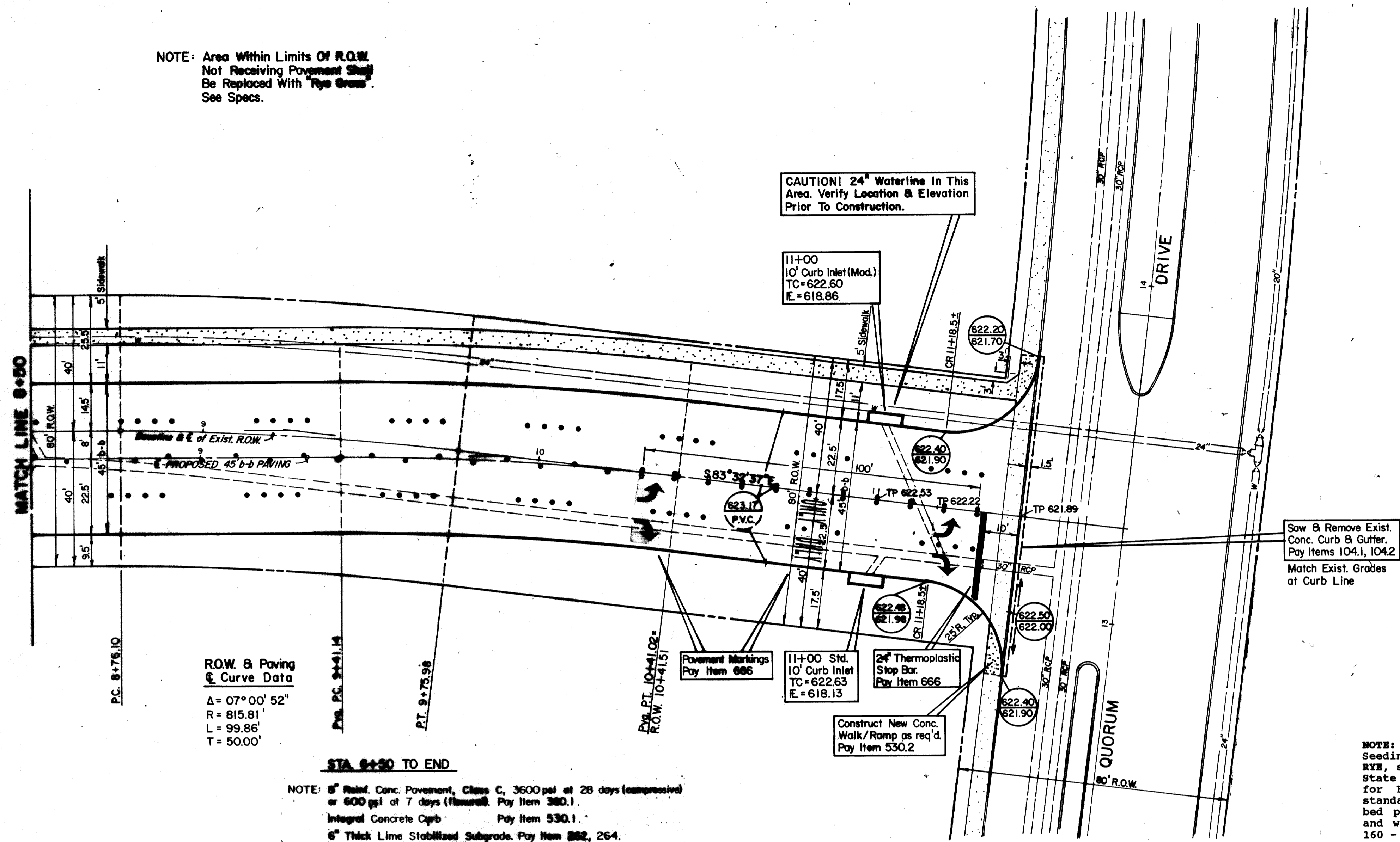
NOTE: 8" Reinf. Conc. Pavement, Class C, 3600 psi at 28 days (compressive) or 600 psi at 7 days (flexural). Pay Item 360.1.
Integral Concrete Curb Pay Item 530.1.
6" Thick Lime Stabilized Subgrade. Pay Item 262, 264.

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



| No. | Revision | By | Date |
|--|--------------|----------------------------|-----------------|
| TOWN OF ADDISON DALLAS COUNTY, TEXAS MILDRED STREET IMPROVEMENTS PAVING STA. 5+00 TO STA. 8+50 GINN, INC. 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 Type Grass.
See Specs.



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

STA. 8+50 TO END

NOTE: 6" Rein. Conc. Pavement, Class C, 3600 psi at 28 days (compressive)
or 600 psi at 7 days (flexural). Pay Item 380.1.
Integral Concrete Curb Pay Item 530.1.
6" Thick Lime Stabilized Subgrade. Pay Item 262, 264.

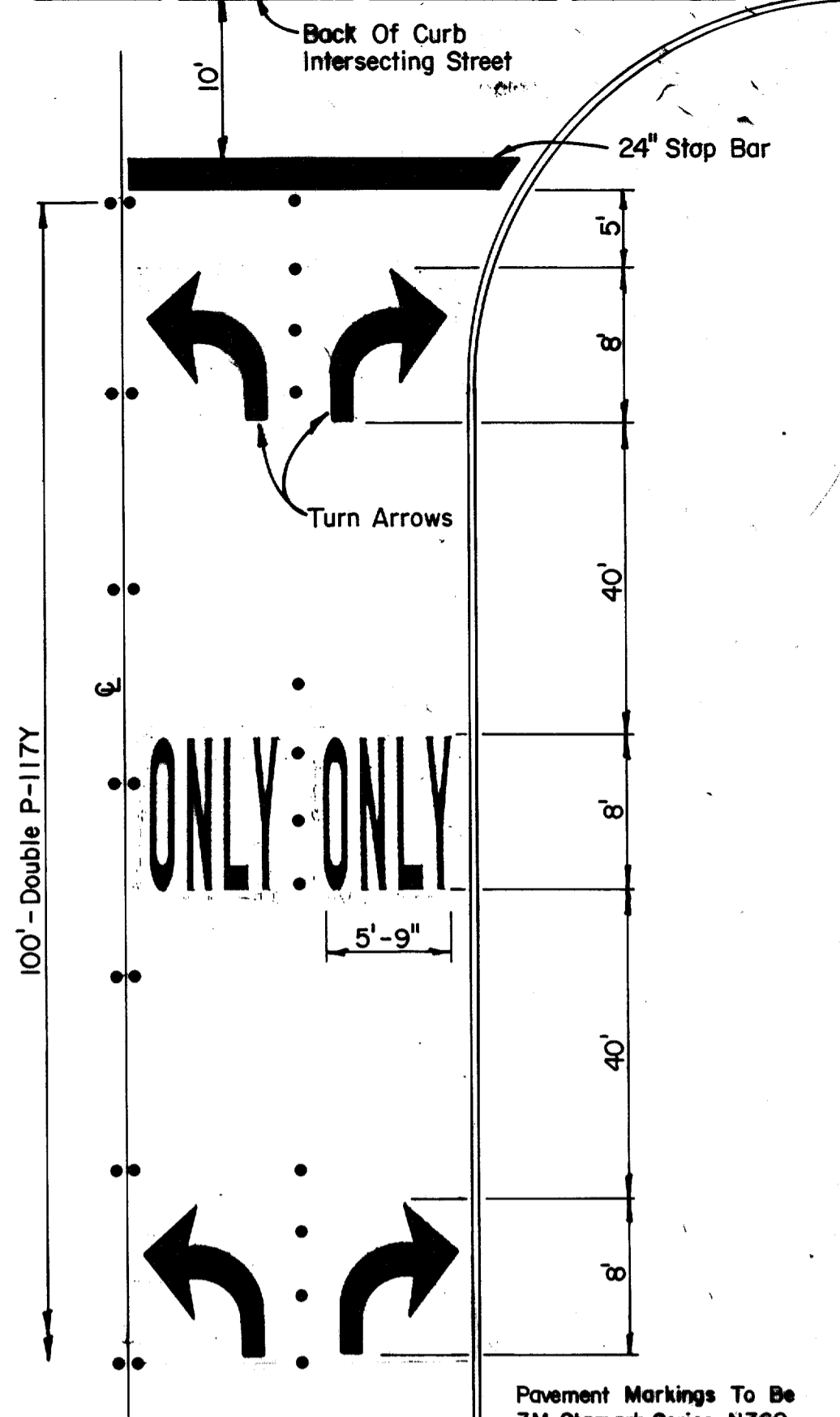
CAUTION! 24" Waterline in This
Area. Verify Location & Elevation
Prior To Construction.

11+00
10' Curb Inlet (Mod.)
TC=622.60
E=618.66

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

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

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

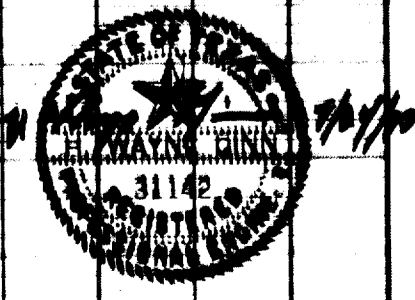
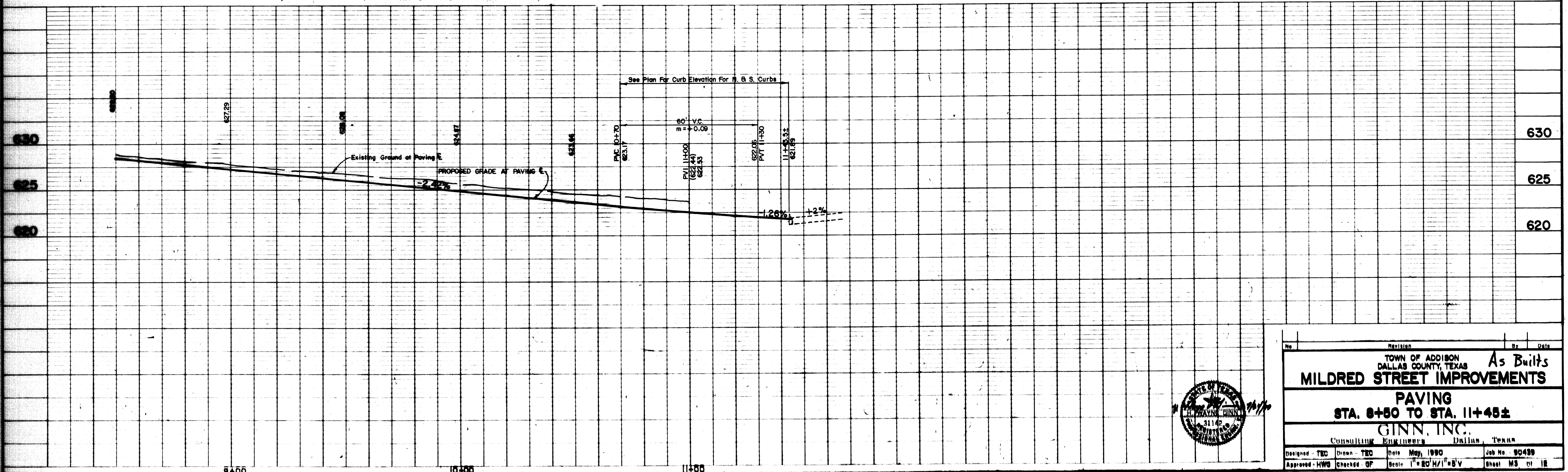


PAVEMENT MARKING DETAIL
No Scale Pay Item 666

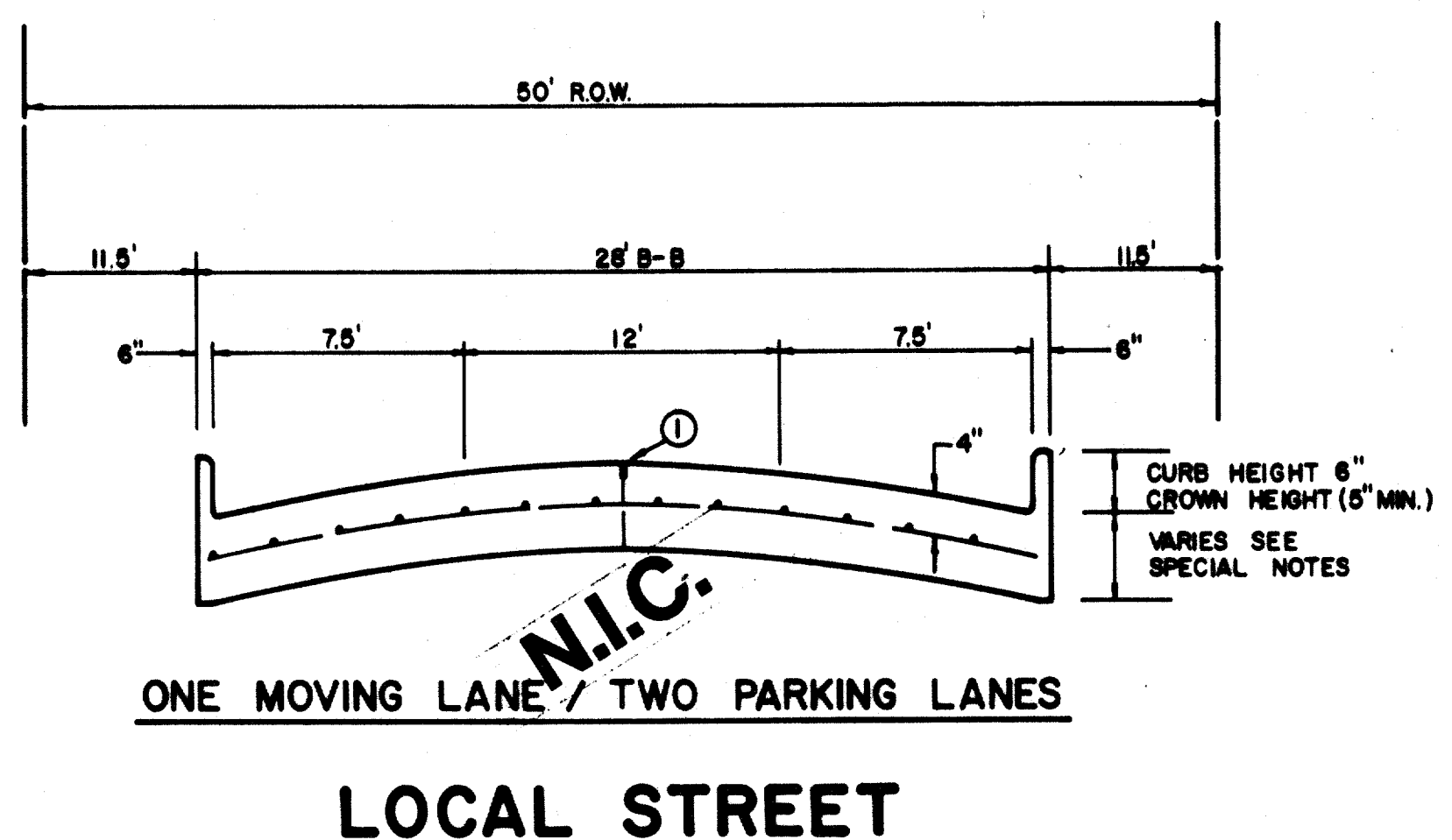
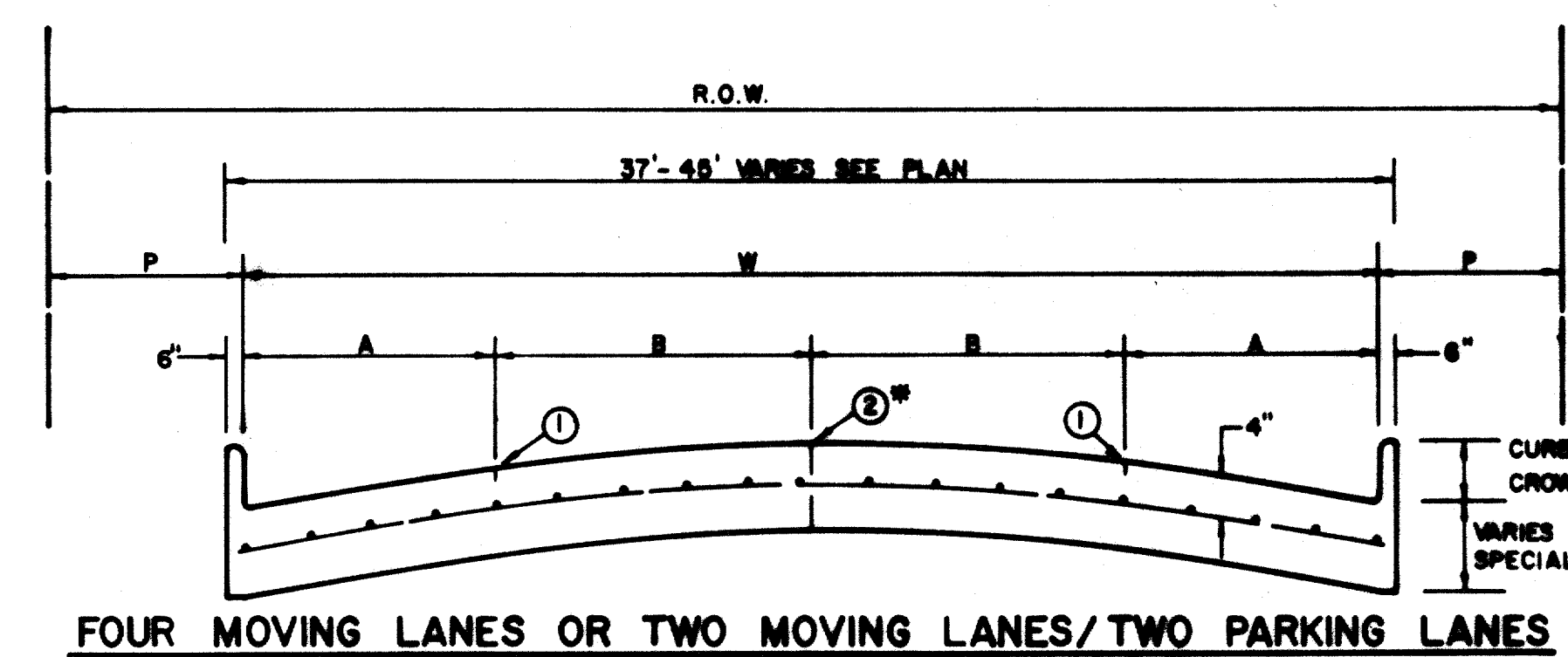
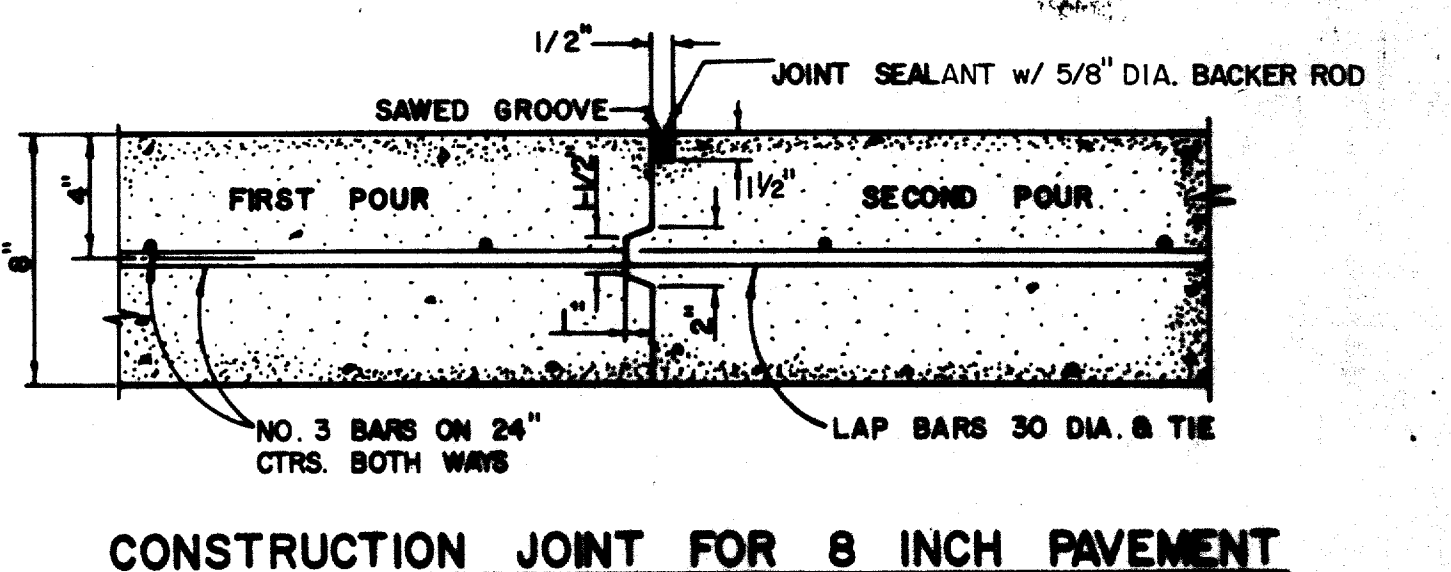
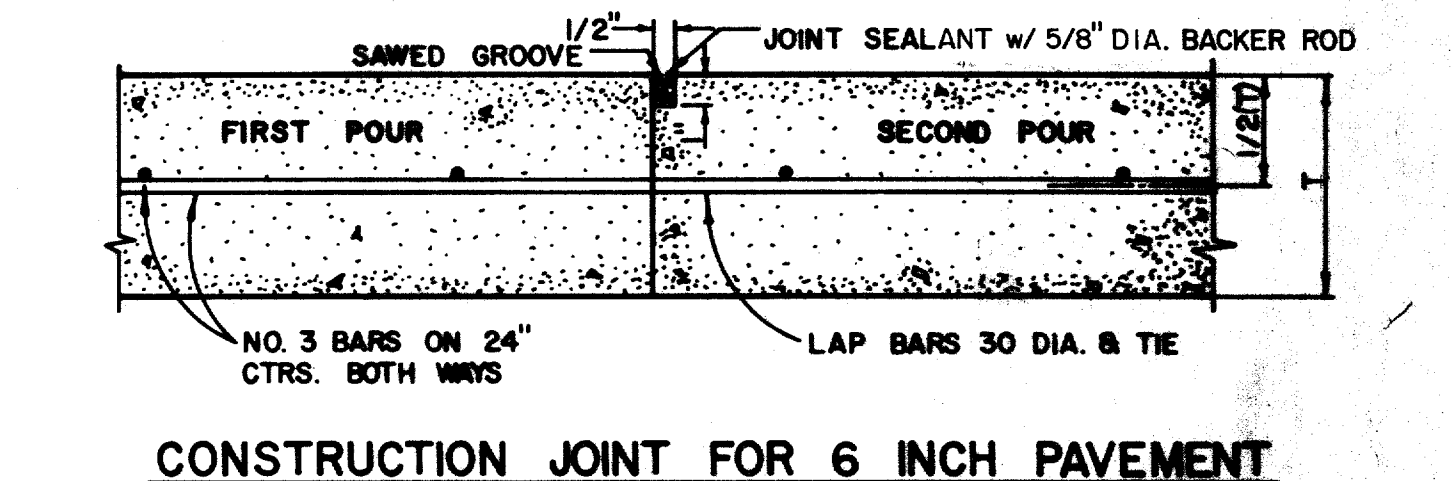
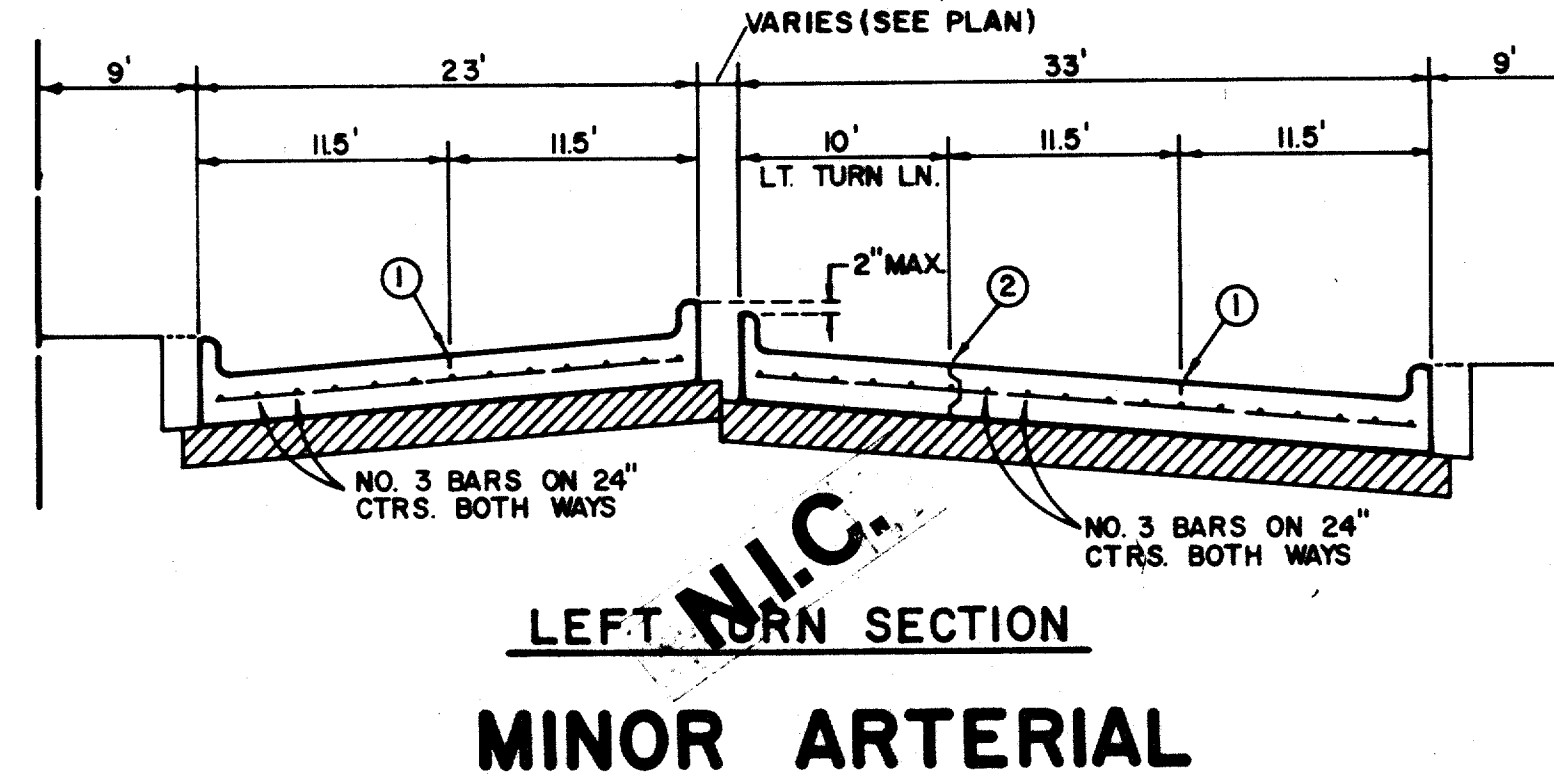
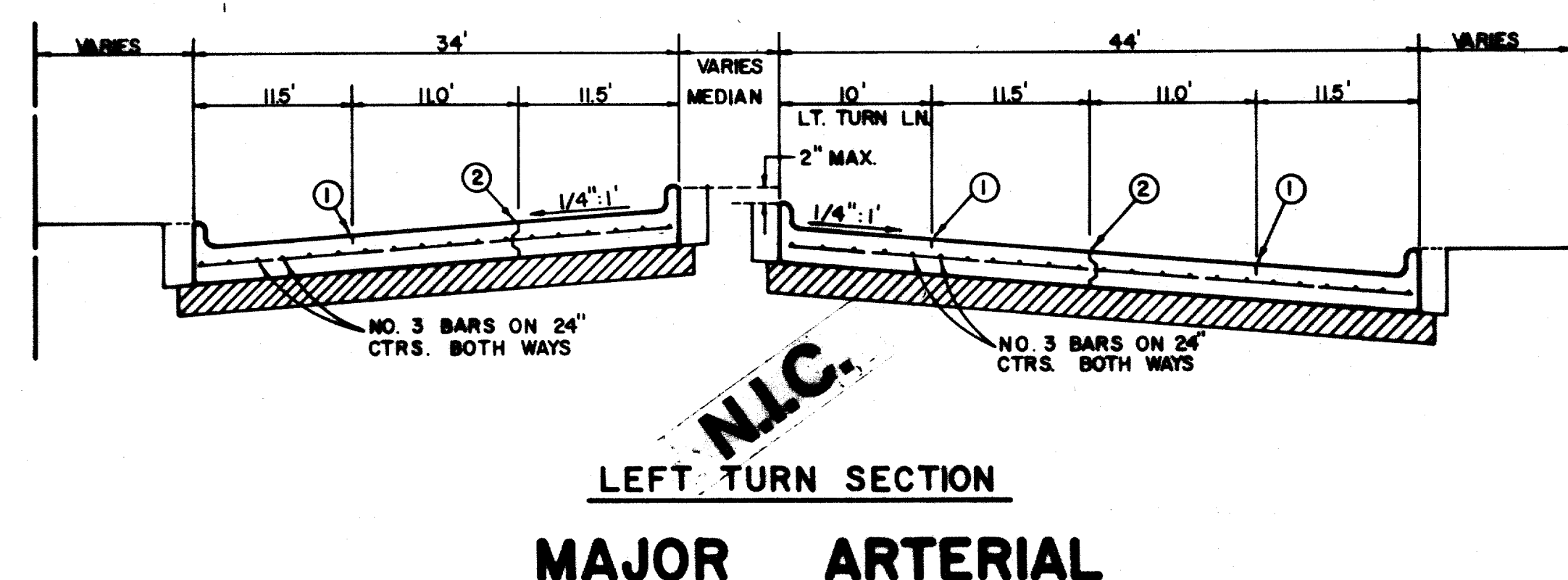
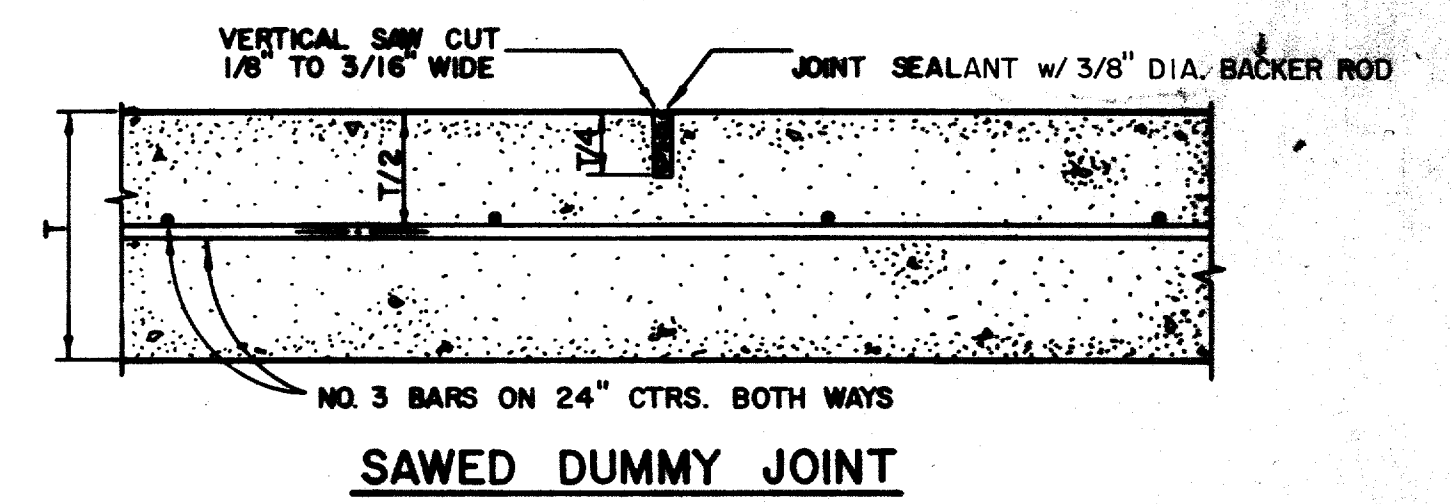
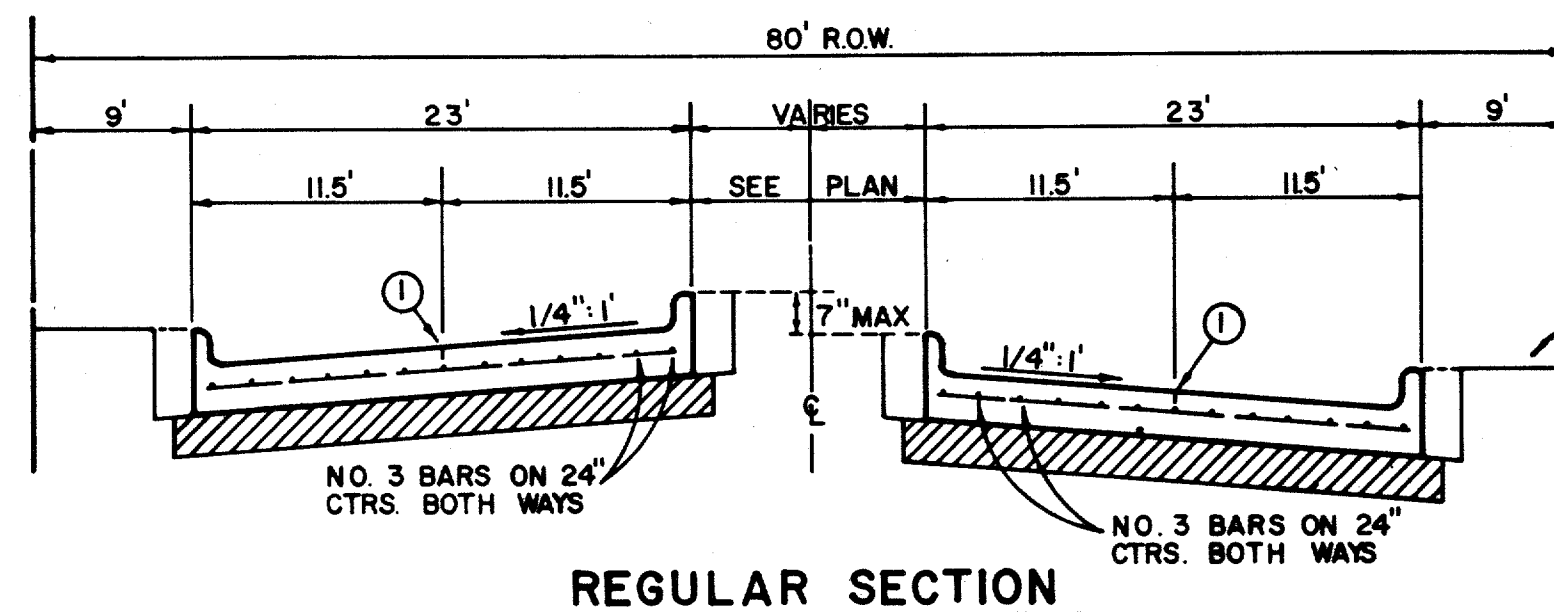
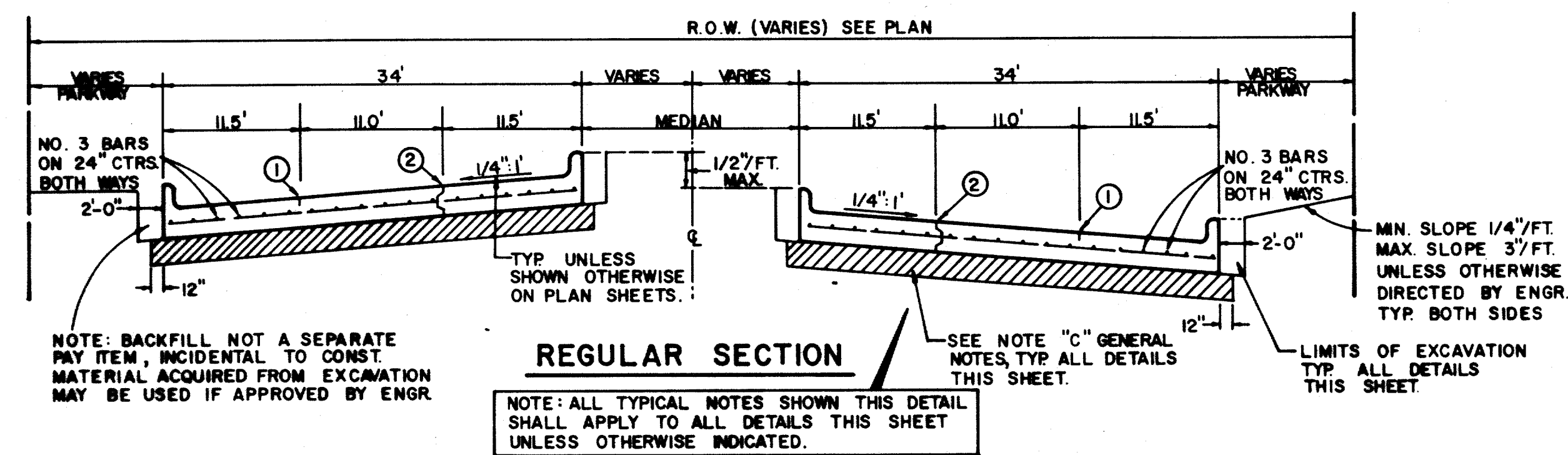
Pavement Markings To Be
3M Stomark Series N360
& Series SMS-N360.

NOTE:
Seeding for Temporary Erosion Control, ANNUAL
RTB, 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.

B.M. "□" on edge of Conc. Apron at
E of Doorway of Water Tower.
Elev. 636.66



| | | | |
|---|--------------|----------------------------|----------------|
| No. | Revision | By | Date |
| TOWN OF ADDISON DALLAS COUNTY, TEXAS MILDRED STREET IMPROVEMENTS As Built PAVING STA. 8+50 TO STA. 11+45± GINN, INC. CONSULTING ENGINEERS Dallas, TEXAS | | | |
| Designed - TEC | Drawn - TEC | Date May, 1980 | Job No. 80490 |
| Approved - HWS | Checked - OF | Scale 1" = 20' H/1" = 8' V | Sheet M3 of 18 |



| STREET TYPE | STREET WIDTH (W) | A | B | R.O.W. 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.

REINFORCED CONCRETE PAVEMENT

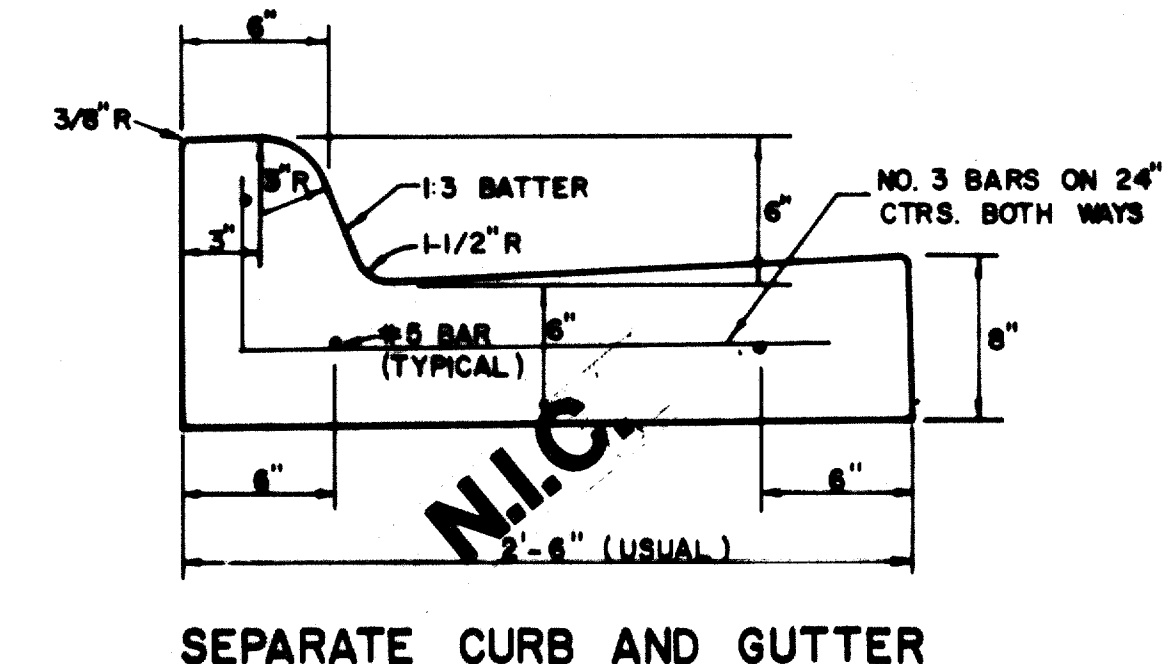
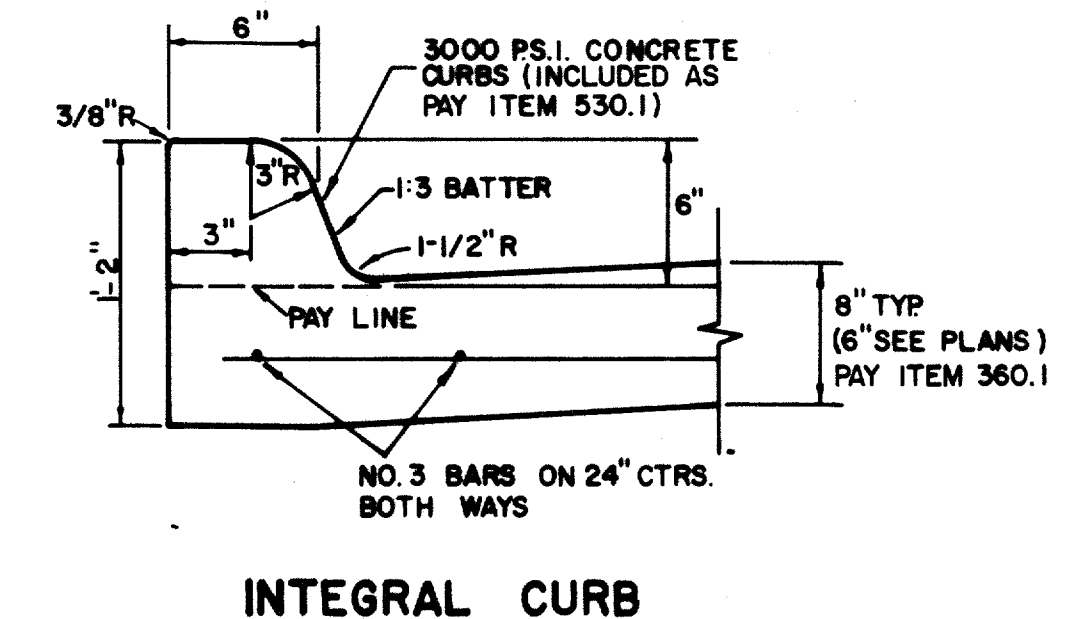
ALL REINFORCING BARS SHALL BE NO. 3 TRANSVERSE BARS TO BE SPACED ON 2'-0" CENTERS; LONGITUDINAL BARS TO BE SPACED ON 2'-0" EXCEPT WHERE NOTED.

UNDIVIDED STREETS—PROVIDE 4" DBL.—REF YELLOW & BUTTON P-117-Y PATTERNS TO BE ESTABLISHED BY ENGINEER. SEE DETAIL SHEET.

① SAWED LONGITUDINAL DUMMY JOINT.

② CONSTRUCTION JOINT (FULL WIDTH PAVMT IS ALLOWED WHERE APPROVED BY ENGINEER).

③ FINISH SHALL BE TRANSVERSE WITH TRAFFIC LANES AND SHALL BE STEEL TINED BROOM FINISH.

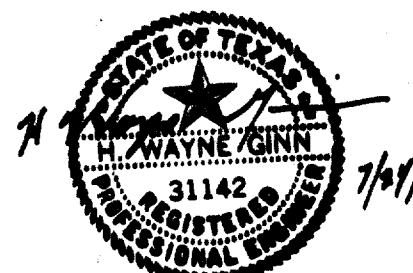
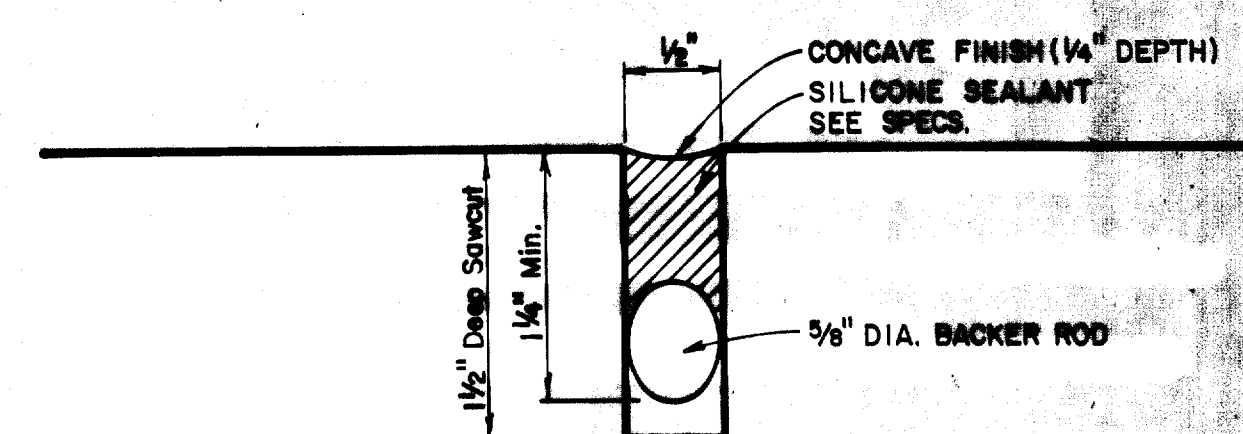


| ROADWAY WIDTH (W) | TOTAL CROWN HEIGHT | 3/4 POINT | MID-POINT | 1/4 POINT |
|-------------------|--------------------|-----------|-----------|-----------|
| 26' | 6" | 3 - 3/8" | 1 - 1/2" | 3/8" |
| 36' | 6" | 3 - 3/8" | 1 - 1/2" | 3/8" |
| 44' | 6" | 3 - 3/8" | 1 - 1/2" | 3/8" |
| 48' | 6" | 3 -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

TABLE OF CROWN HEIGHTS AND ORDINATES FOR VARIOUS PARABOLIC SECTIONS

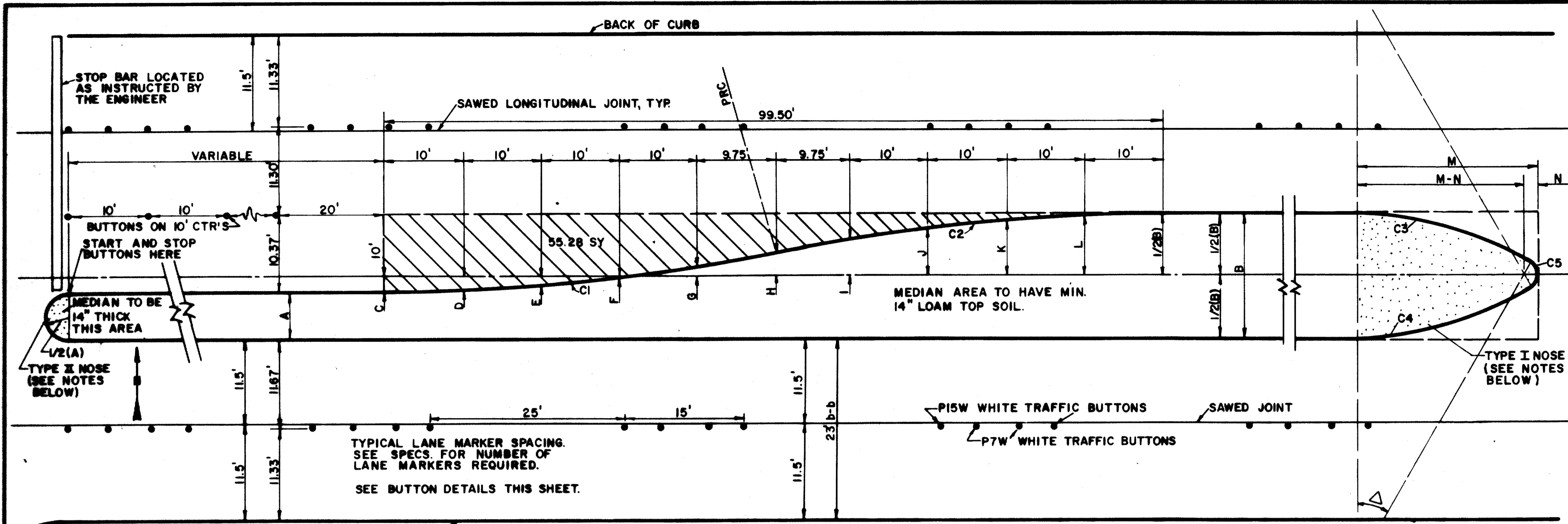
GENERAL NOTES

- GENERAL PAVEMENT THICKNESS FOR STREETS SHALL BE AS SPECIFIED BELOW IN SPECIAL NOTES.
- STANDARD SPECIFICATIONS REINFORCED CONCRETE PAVEMENT
 - ALL CURBS SHALL BE PLACED INTERNAL WITH PAVEMENT.
 - CURBS SHALL MEET THE SAME COMPRESSIVE STRENGTH AS SPECIFIED FOR THE CONCRETE PAVEMENT.
 - DETAIL AND ARRANGEMENT OF JOINTS, ALL TYPES, SHALL BE AS SHOWN ON THE STANDARD CONSTRUCTION DETAILS, OR AS APPROVED BY ENGINEER.
 - BAR LAPS SHALL BE 30 DIAMETERS.
- SUBGRADE UNDER ALL PAVEMENT SHALL BE 6 INCHES THICK AND SHALL BE STABILIZED WITH 6 PERCENT BY WEIGHT OF HUMIDITY LINE (27 LBS./S.T.) AND COMPACTED TO A DENSITY NOT LESS THAN 95 PERCENT AS DETERMINED BY A.A.S.T.M. 99. ENGINEER'S TESTS MAY BE SUBMITTED TO THE ENGINEER FOR APPROVAL TO DETERMINE AMOUNT OF LINE REQUIRED.
- BAR CHAIRS OR AN APPROVED SUPPORTING DEVICE SHALL BE FURNISHED.



| STANDARD CONSTRUCTION DETAILS PAVING | | | | |
|--------------------------------------|-----------|-------------------|-----------------|--|
| STREET CROWNS & JOINTS | | | | |
| GINN, INC. | | | | |
| Consulting Engineers Dallas, Texas | | | | |
| Designed - | Drawn - | Date - June, 1990 | Job No. - 90439 | |
| Approved - | Checked - | Scale - | Sheet M4 of 12 | |

SDI



MEDIAN DIMENSION CHART

| B | C | D | E | F | G | H | I | J | K | L | M | N |
|----|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|--------|-------|
| 12 | 4.00'S | 5.80'S | 3.20'S | 2.19'S | 0.78'S | 1.00'N | 2.78'N | 4.19'N | 5.20'N | 5.80'N | 22.56' | 1.00' |
| 13 | 3.50'S | 3.30'S | 2.70'S | 1.69'S | 0.28'S | 1.50'N | 3.28'N | 4.69'N | 5.70'N | 6.30'N | 23.56' | 1.00' |
| 14 | 3.00'S | 2.80'S | 2.20'S | 1.19'S | 0.22'N | 2.00'N | 3.78'N | 5.19'N | 6.20'N | 6.80'N | 22.68' | 2.50' |
| 15 | 2.50'S | 2.30'S | 1.70'S | 0.69'S | 0.72'N | 2.50'N | 4.28'N | 5.69'N | 6.70'N | 7.30'N | 23.71' | 2.50' |
| 16 | 2.00'S | 1.80'S | 1.20'S | 0.19'S | 1.22'N | 3.00'N | 4.78'N | 6.19'N | 7.20'N | 7.80'N | 23.46' | 3.50' |
| 17 | 1.50'S | 1.30'S | 0.70'S | 0.31'N | 1.72'N | 3.50'N | 5.28'N | 6.69'N | 7.70'N | 8.30'N | 24.48' | 3.50' |
| 18 | 1.00'S | 0.80'S | 0.20'S | 0.81'N | 2.22'N | 4.00'N | 5.78'N | 7.19'N | 8.20'N | 8.80'N | 25.44' | 3.50' |
| 19 | 0.50'S | 0.30'S | 0.30'N | 1.31'N | 2.72'N | 4.50'N | 6.28'N | 7.69'N | 8.70'N | 9.30'N | 26.34' | 3.50' |
| 20 | 0.00' | 0.20'N | 0.80'N | 1.81'N | 3.22'N | 5.00'N | 6.78'N | 8.19'N | 9.20'N | 9.80'N | 26.72' | 4.00' |
| 21 | 0.50'N | 0.70'N | 1.30'N | 2.31'N | 3.72'N | 5.50'N | 7.28'N | 8.69'N | 9.70'N | 10.30'N | 27.57' | 4.00' |
| 22 | 1.00'N | 1.20'N | 1.80'N | 2.81'N | 4.22'N | 6.00'N | 7.78'N | 9.19'N | 10.20'N | 10.80'N | 28.39' | 4.00' |
| 23 | 1.50'N | 1.70'N | 2.30'N | 3.31'N | 4.72'N | 6.50'N | 8.28'N | 9.69'N | 10.70'N | 11.30'N | 29.17' | 4.00' |
| 24 | 2.00'N | 2.30'N | 2.90'N | 3.81'N | 5.22'N | 7.00'N | 8.78'N | 10.19'N | 11.20'N | 11.80'N | 29.92' | 4.00' |

N = NORTH OF CENTERLINE
S = SOUTH OF CENTERLINE

CURVE DATA C3 & C4 FOR 7'-A=14'

| A | R | T | L | S | N |
|----|-----------|-----|--------|--------|--------|
| 7 | 18°22'52" | 50' | 8.09' | 16.04' | 16.46' |
| 8 | 20°09'11" | | 8.89' | 17.89' | 17.88' |
| 9 | 21°47'12" | | 9.62' | 19.01' | 19.19' |
| 10 | 23°18'41" | | 10.31' | 20.34' | 20.39' |
| 11 | 24°44'50" | | 10.97' | 21.60' | 21.51' |
| 12 | 26°06'32" | | 11.59' | 22.78' | 22.56' |
| 13 | 27°24'27" | | 12.18' | 23.82' | 23.56' |
| 14 | 28°08'28" | | 12.73' | 24.74' | 24.50' |

CURVE DATA C1

Δ = 11°28'40"
R = 250'
T = 25.13'
L = 50.08'

CURVE DATA C3 & C4 FOR 12'-B=24'

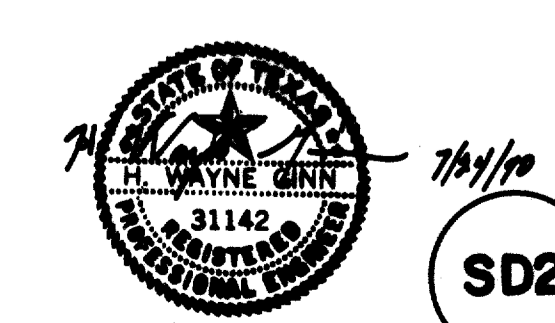
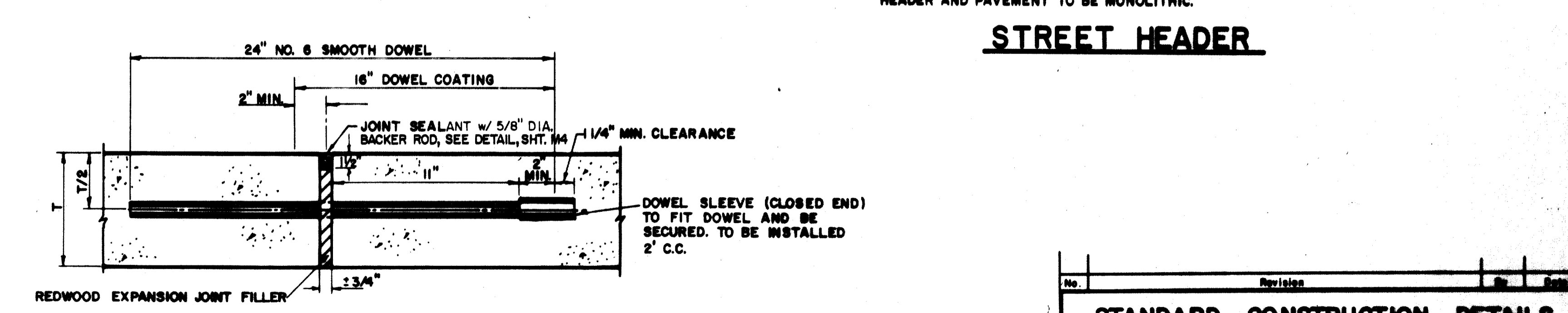
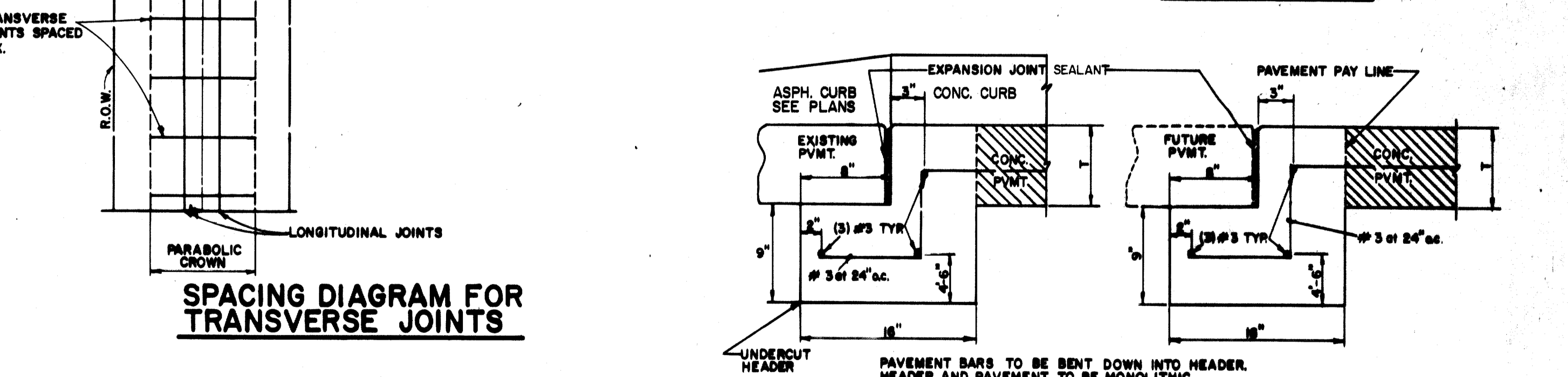
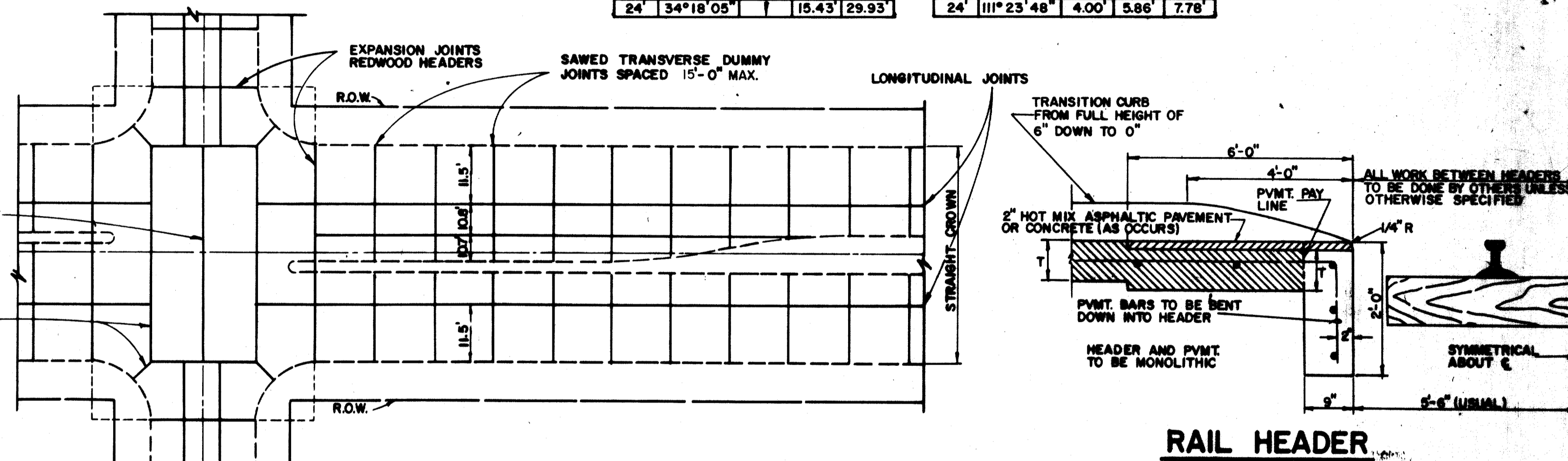
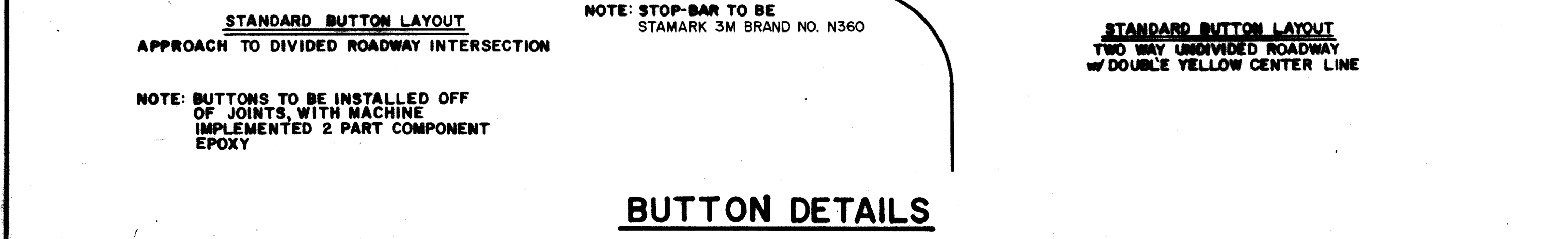
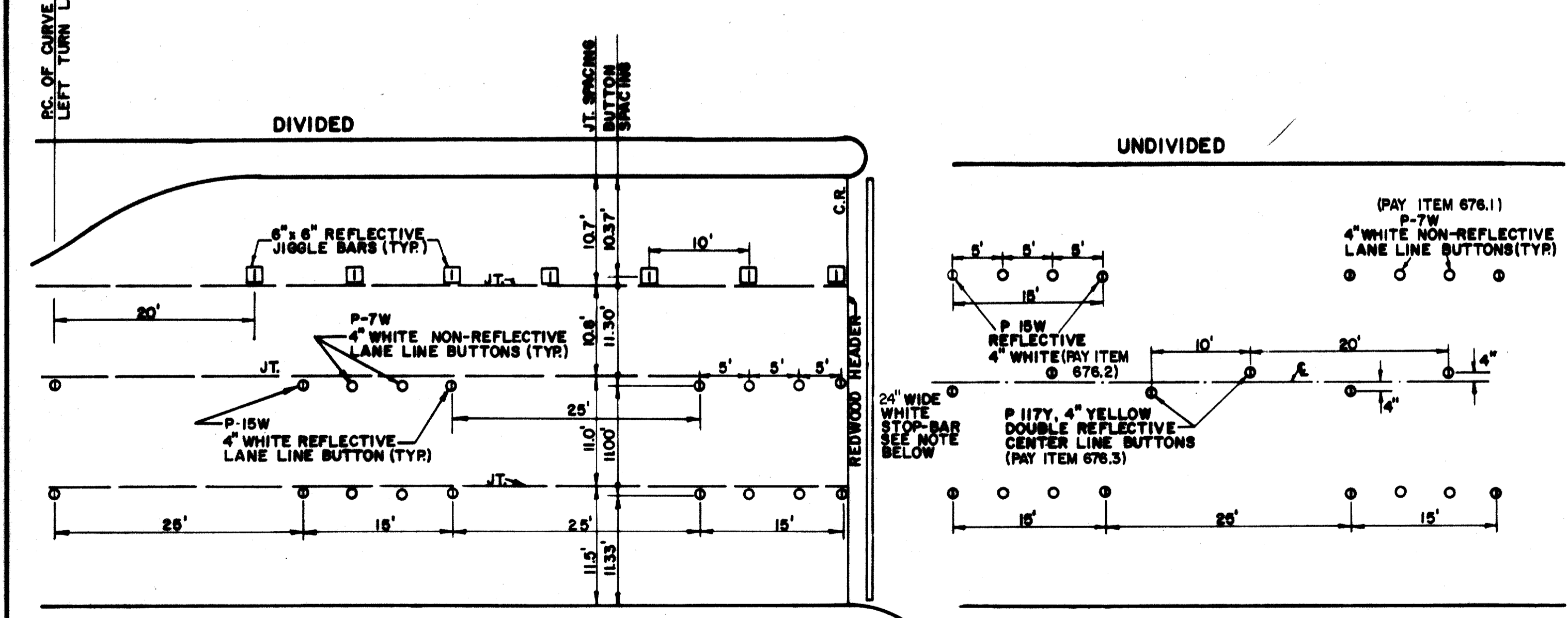
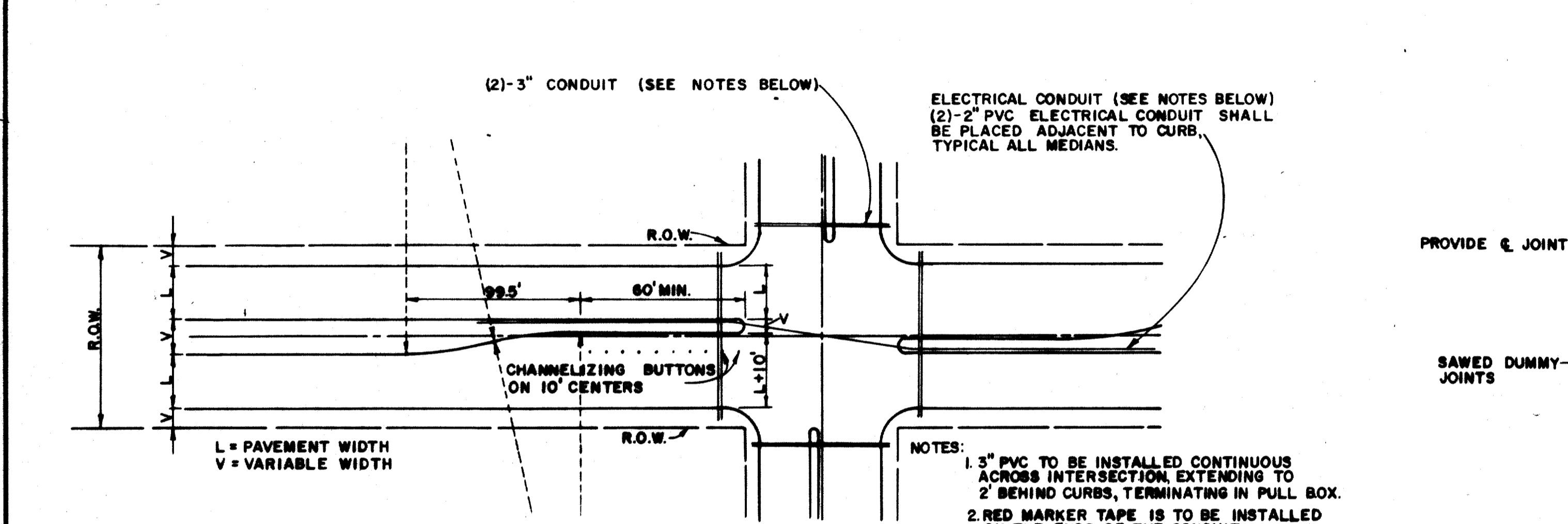
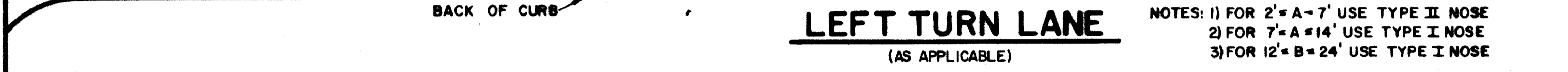
| B | Δ | R | T | L |
|----|-----------|--------|--------|--------|
| 12 | 26°06'32" | 50.00' | 11.59' | 22.78' |
| 13 | 27°24'27" | | 12.19' | 23.92' |
| 14 | 28°08'28" | | 12.73' | 24.94' |
| 15 | 28°51'32" | | 13.24' | 25.84' |
| 16 | 29°24'53" | | 13.71' | 26.62' |
| 17 | 29°48'51" | | 14.15' | 27.30' |
| 18 | 29°58'58" | | 14.56' | 27.88' |
| 19 | 30°00'43" | | 14.93' | 28.37' |
| 20 | 30°03'30" | | 15.27' | 28.78' |
| 21 | 30°07'46" | | 15.58' | 29.11' |
| 22 | 32°01'26" | | 16.85' | 29.95' |
| 23 | 33°10'48" | | 17.90' | 30.62' |
| 24 | 34°18'05" | | 18.73' | 31.13' |

CURVE DATA C5 FOR 12'-B=24'

| B | Δ | R | T | L |
|----|------------|-------|-------|-------|
| 12 | 127°47'32" | 1.00' | 2.04' | 2.23' |
| 13 | 125°12'46" | 1.00' | 1.93' | 2.19' |
| 14 | 129°43'08" | 2.50' | 5.33' | 5.66' |
| 15 | 126°57'51" | 2.90' | 5.01' | 5.54' |
| 16 | 129°09'53" | 3.50' | 7.36' | 7.89' |
| 17 | 126°21'44" | 3.50' | 6.92' | 7.72' |
| 18 | 123°41'38" | 3.50' | 6.54' | 7.56' |
| 19 | 120°52'03" | 3.50' | 6.17' | 7.38' |
| 20 | 120°48'56" | 4.00' | 7.04' | 8.43' |
| 21 | 118°21'08" | 4.00' | 6.70' | 8.26' |
| 22 | 115°57'07" | 4.00' | 6.40' | 8.10' |
| 23 | 113°38'22" | 4.00' | 6.12' | 7.93' |
| 24 | 111°23'48" | 4.00' | 5.86' | 7.78' |

CURVE DATA C5 FOR 7'-A=14'

| A | R | T | L |
|----|------------|-------|-------|
| 7 | 143°14'15" | 1.00' | 3.01' |
| 8 | 139°41'36" | 1.00' | 2.72' |
| 9 | 136°25'35" | 1.00' | 2.50' |
| 10 | 133°22'58" | 1.00' | 2.32' |
| 11 | 130°30'20" | 1.00' | 2.17' |
| 12 | 127°47'32" | 1.00' | 2.04' |
| 13 | 125°12'46" | 1.00' | 1.93' |
| 14 | 123°43'08" | 2.50' | 5.33' |



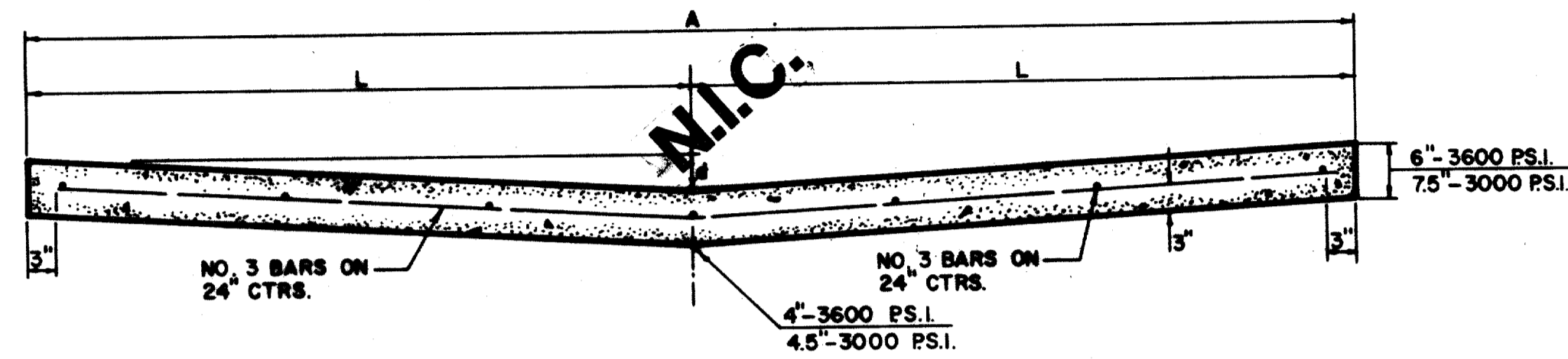
STANDARD CONSTRUCTION DETAILS PAVING

TURN LANES & JOINTS

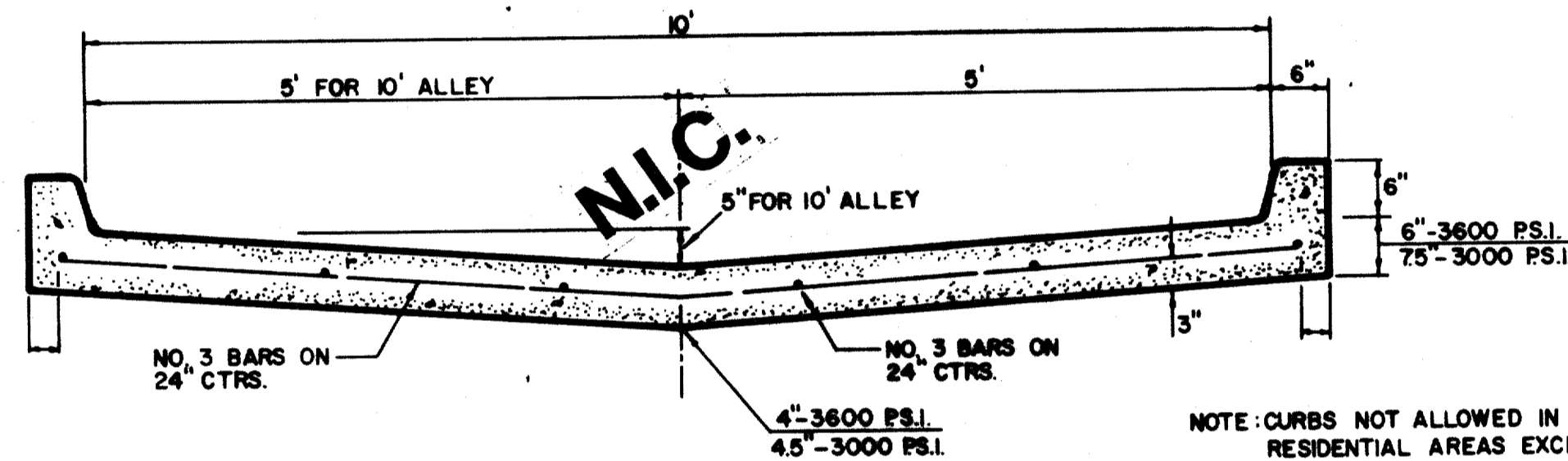
GINN, INC.
Consulting Engineers Dallas, Texas

Designed - _____ Date - June, 1990 Job No. - 90459
Approved - _____ Checked - _____ Scale - _____ Sheet M5 OF 12

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

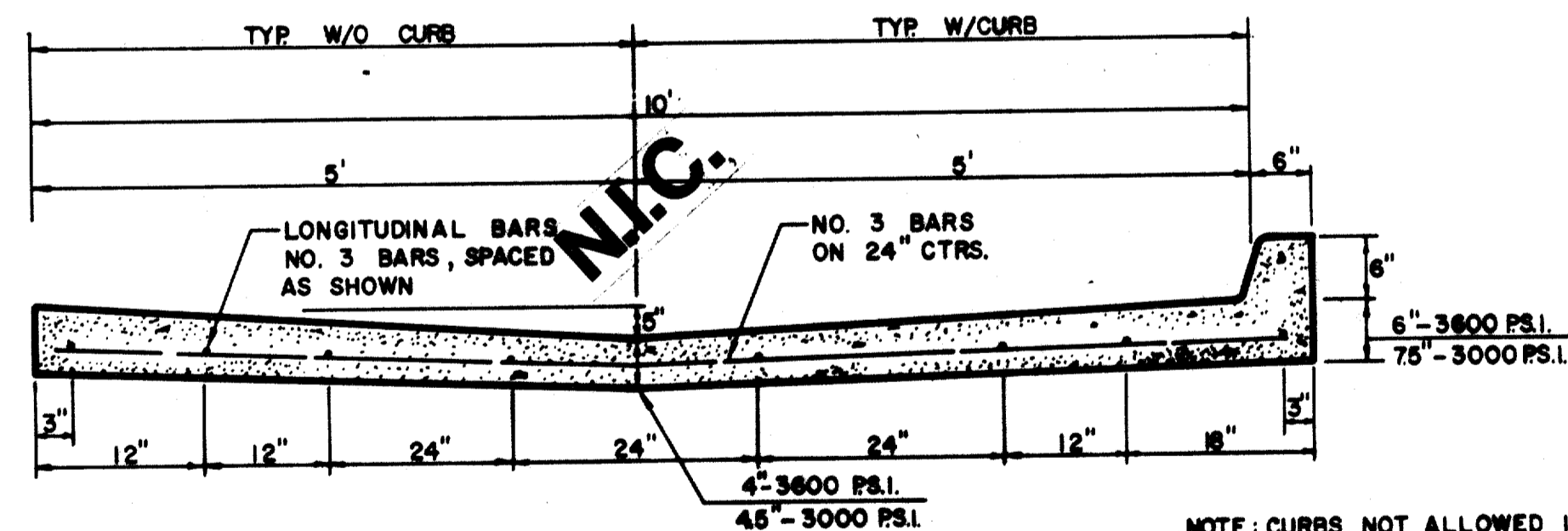


STANDARD 10', 12', 16', & 20' ALLEY SECTION



STANDARD ALLEY SECTION WITH CURBS

NOTE: CURBS NOT ALLOWED IN RESIDENTIAL AREAS EXCEPT AS APPROVED BY THE ENGINEER.



ALTERNATE 10' ALLEY SECTION / CURB

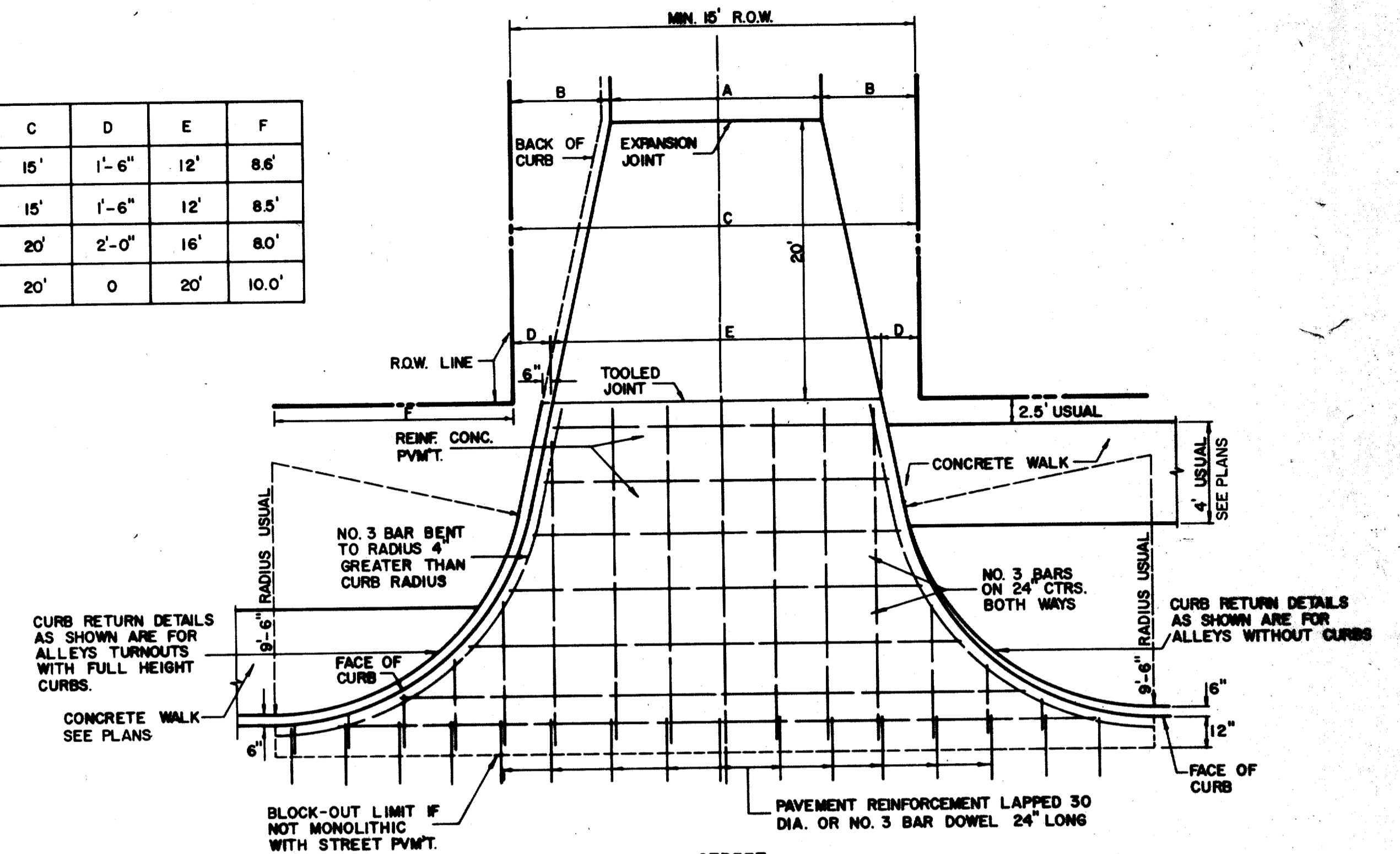
NOTE: CURBS NOT ALLOWED IN RESIDENTIAL AREAS EXCEPT AS APPROVED BY THE ENGINEER.



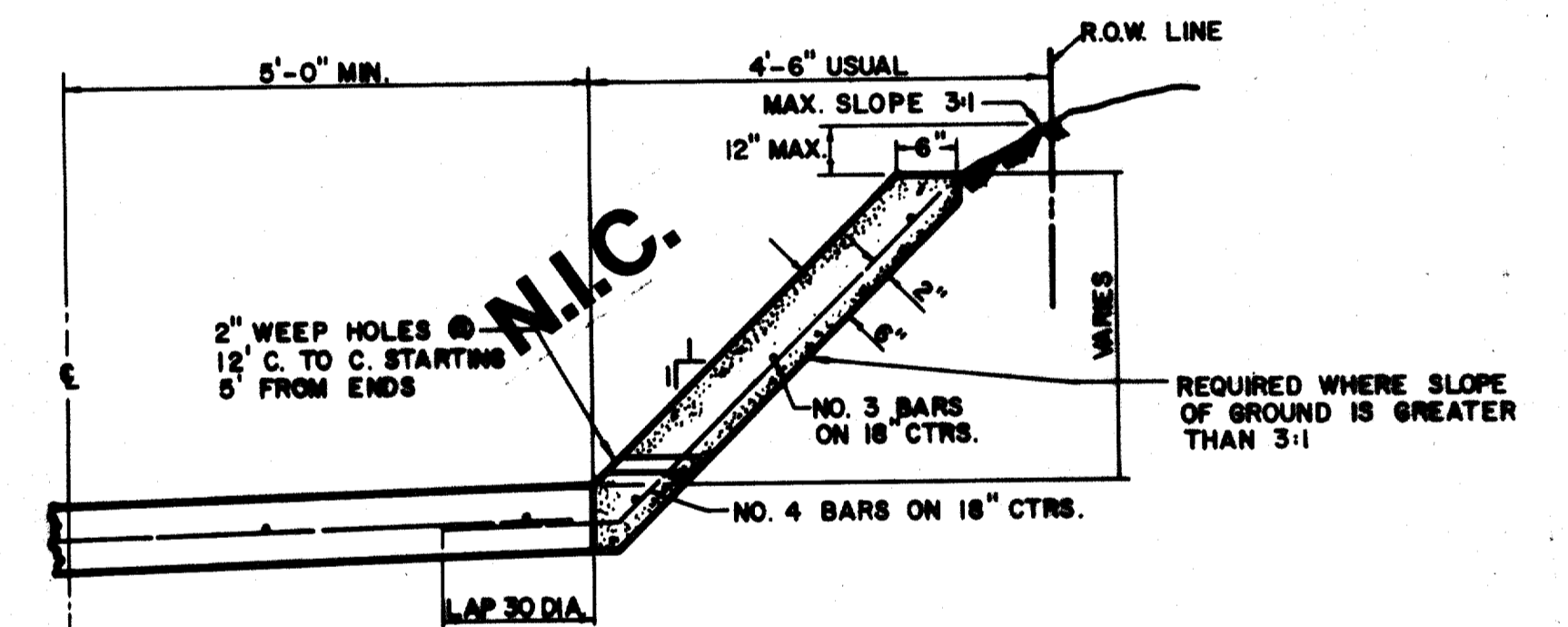
TYPE I ALLEY ENTRANCE

TYPE II ALLEY ENTRANCE

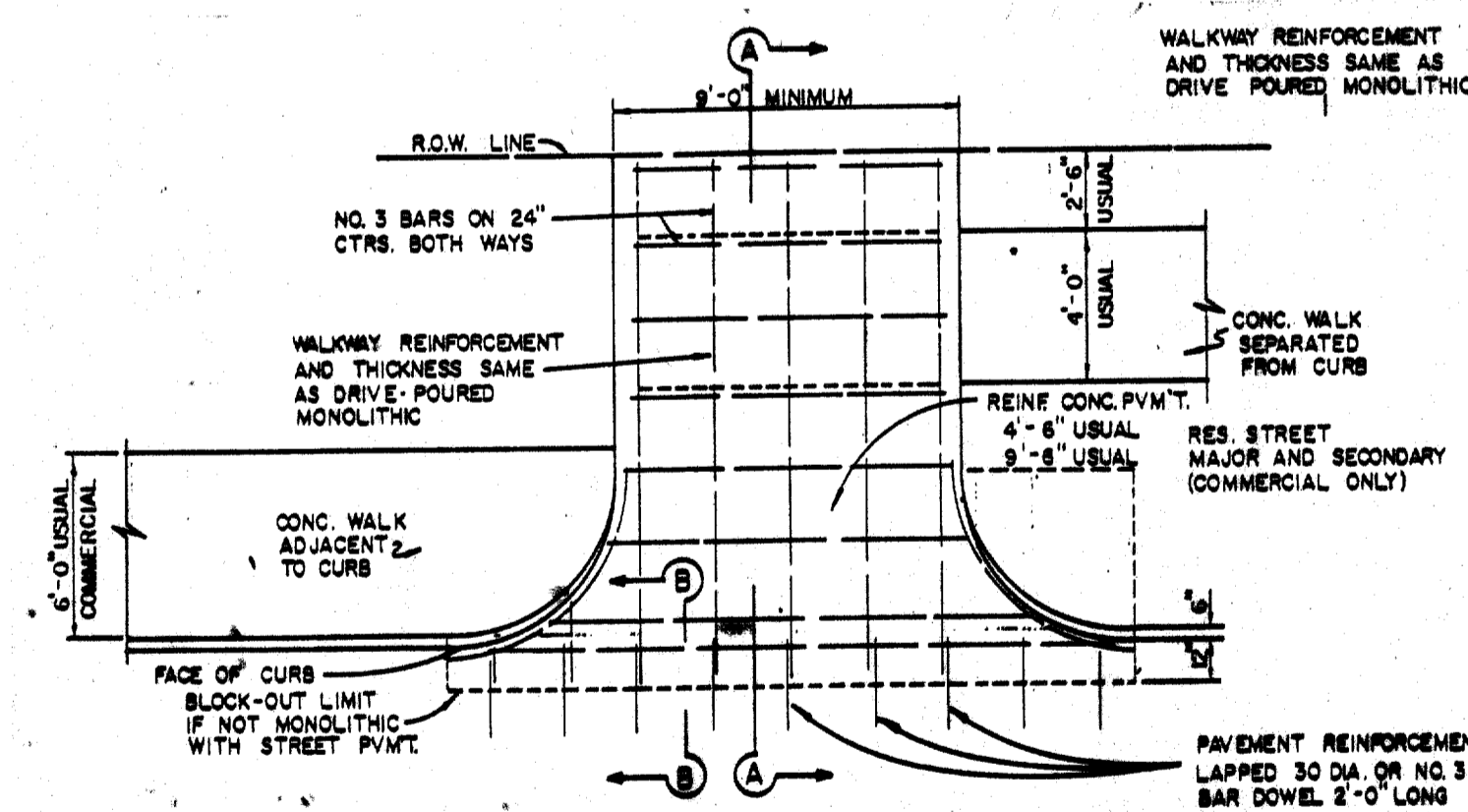
| ALLEY WIDTH | A | B | C | D | E | F |
|-------------|-----|-------|-----|-------|-----|-------|
| 10' | 10' | 2'-6" | 15' | 1'-6" | 12' | 8.6' |
| 12' | 12' | 1'-6" | 15' | 1'-6" | 12' | 8.5' |
| 16' | 16' | 2'-0" | 20' | 2'-0" | 16' | 8.0' |
| 20' | 20' | 0 | 20' | 0 | 20' | 10.0' |



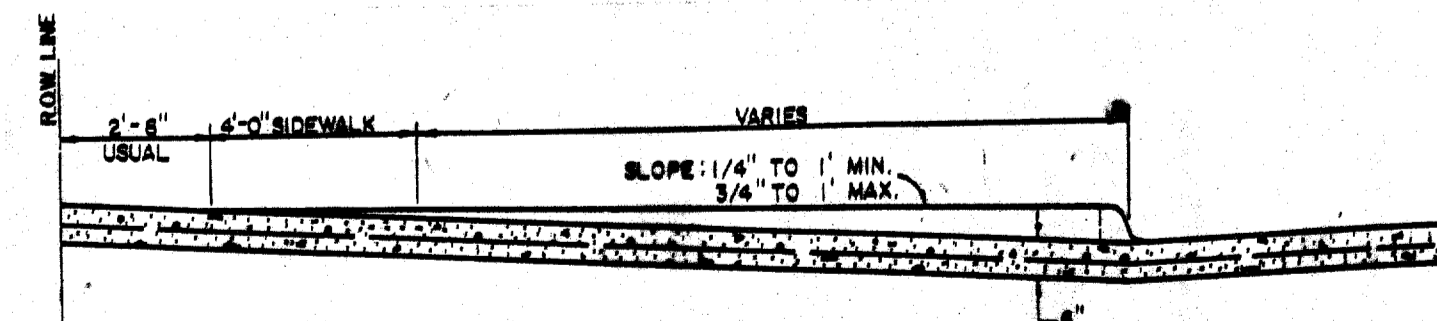
ALLEY RETURN DETAILS
FOR DETAILS ONLY-SEE PLAN FOR DIMENSIONS



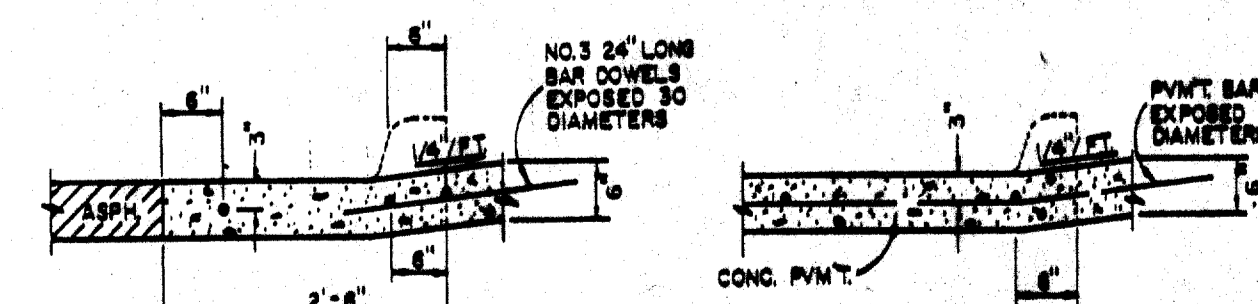
ALLEY SLOPE PROTECTION



DRIVEWAY RETURN TO STREET



SECTION A-A



SECTION B-B
DRIVEWAY RETURN DETAILS

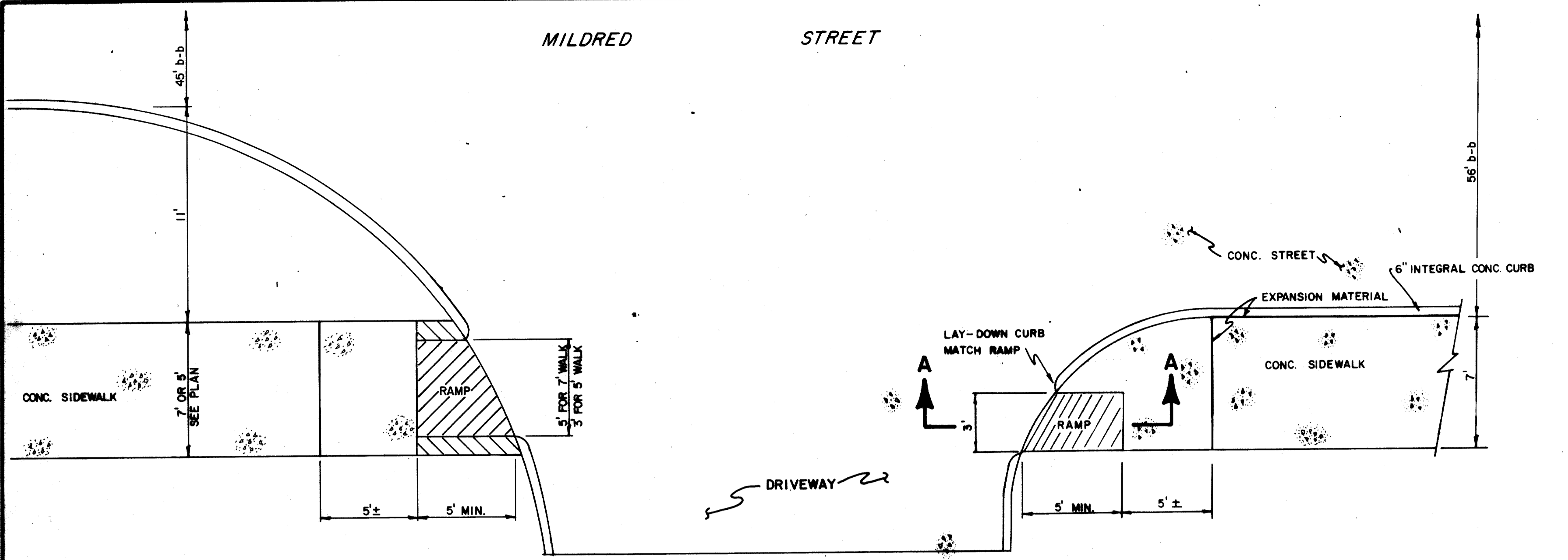
GENERAL NOTES FOR ALLEYS AND DRIVEWAYS

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.



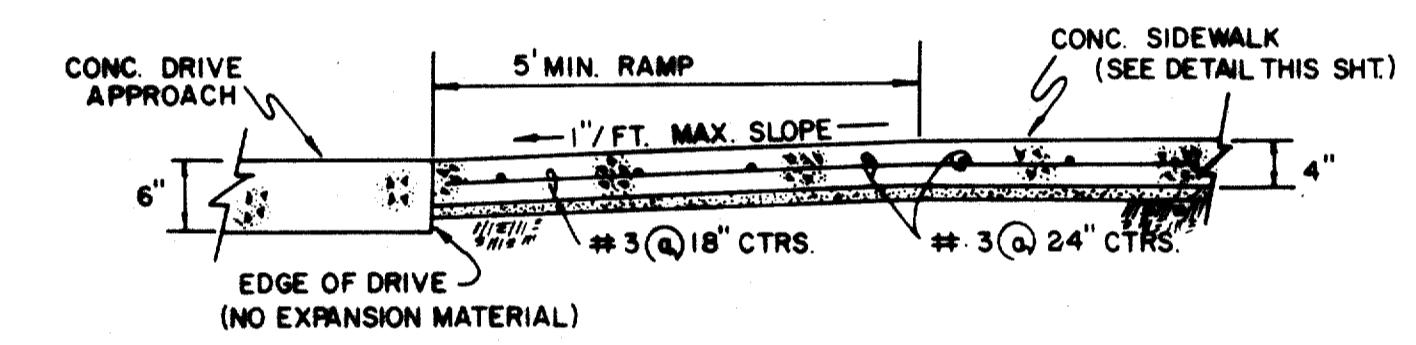
SD4

| No. | Revision | By | Date |
|---|-----------|-------------------|--------------------|
| STANDARD CONSTRUCTION DETAILS PAVING | | | |
| ALLEY & DRIVEWAY RETURNS | | | |
| GINN, INC. | | | |
| Consulting Engineers Dallas, Texas | | | |
| Designed - | Drawn - | Date - June, 1990 | Job No. - 92439 |
| Approved - | Checked - | Scale - | Sheet No. 04 of 10 |

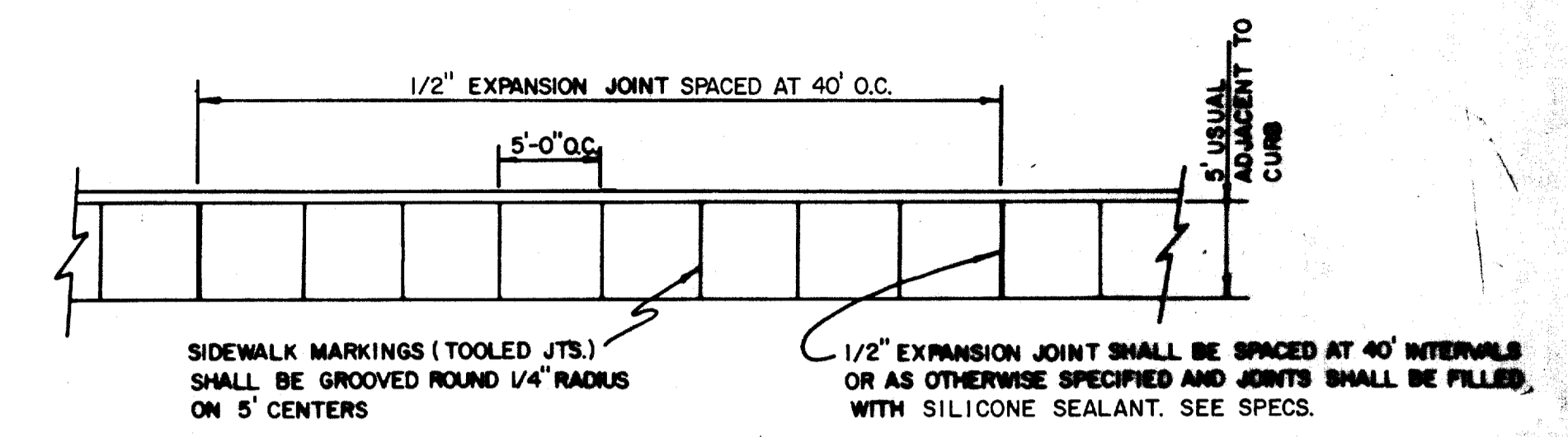


PLAN

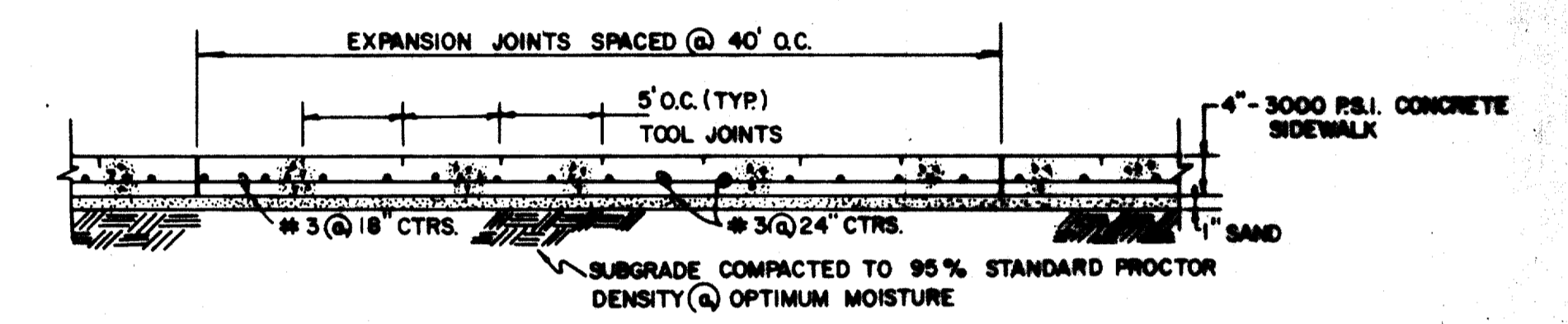
NOTE:
MODIFY RAMP TO
FIT DIFFERENT RADIUS



SECTION A-A



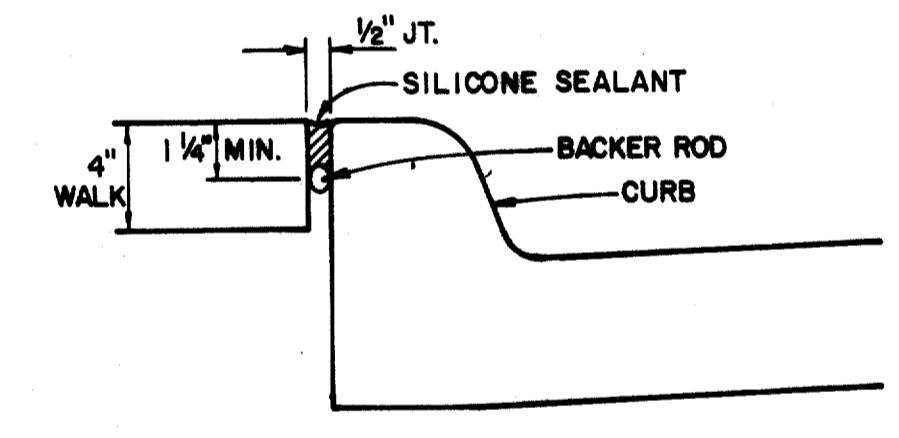
PLAN



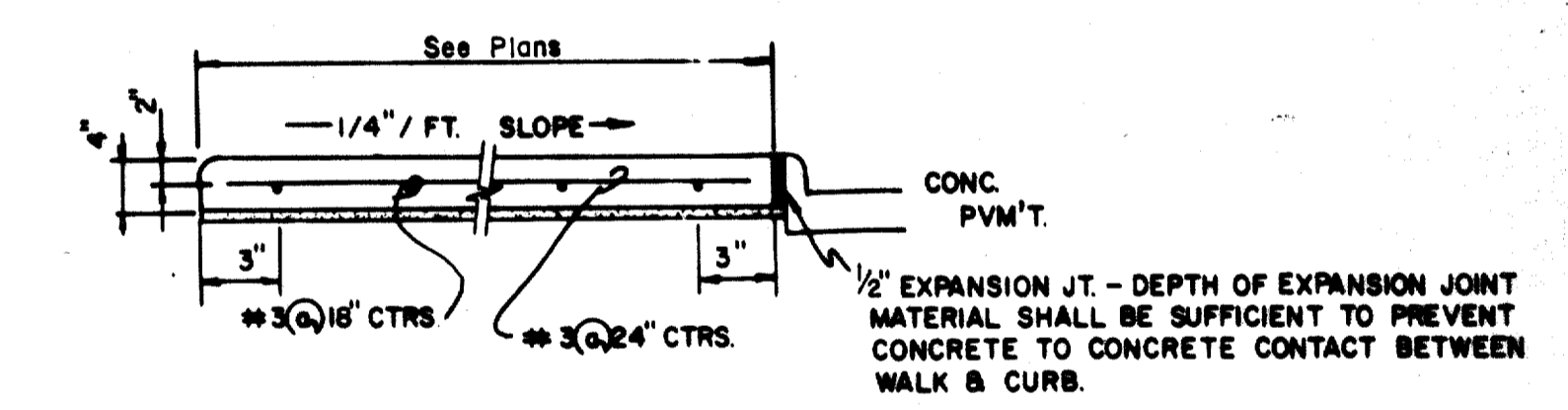
SIDE ELEVATION

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

ADDISON ROAD

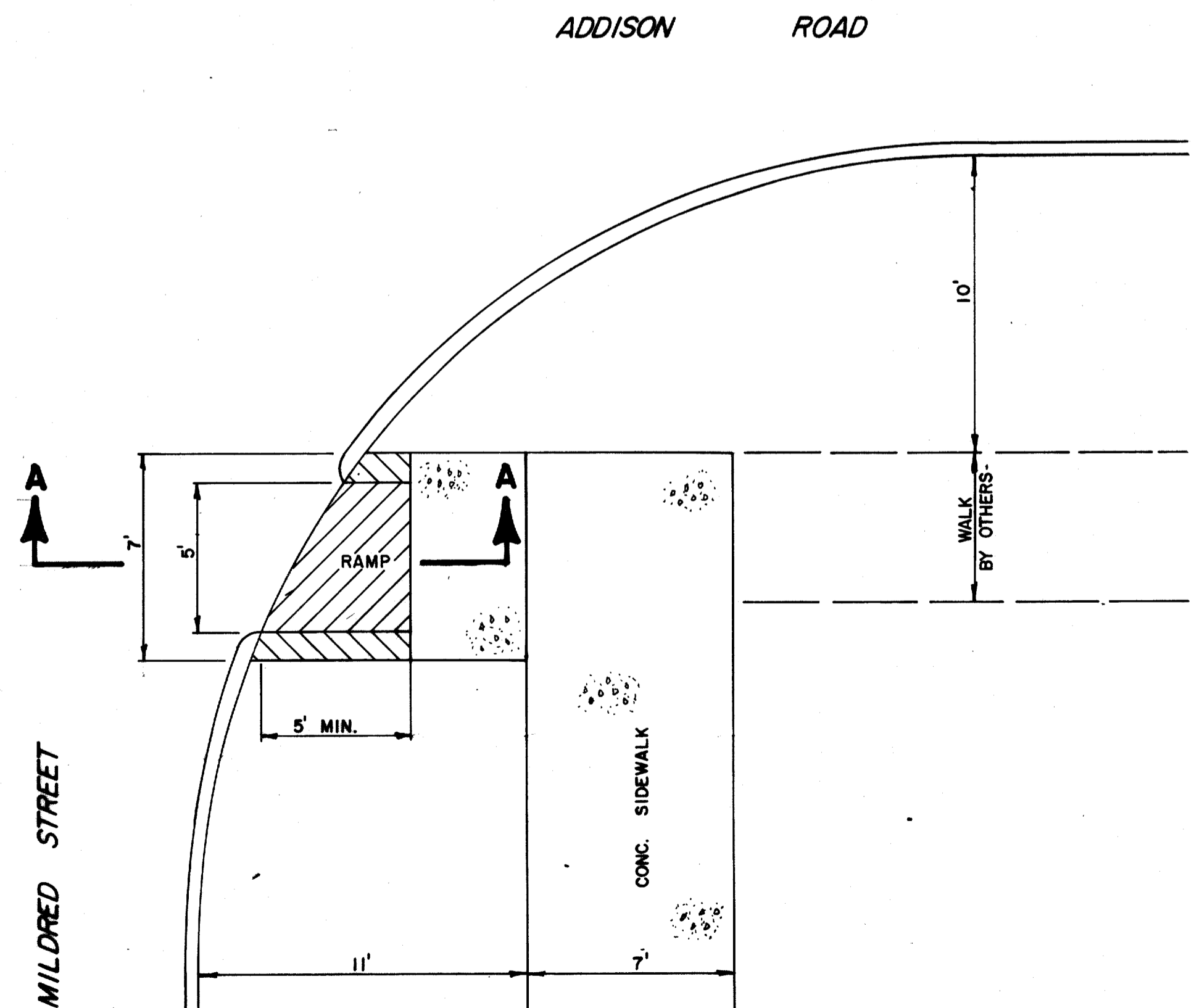


EXPANSION JOINT DETAIL

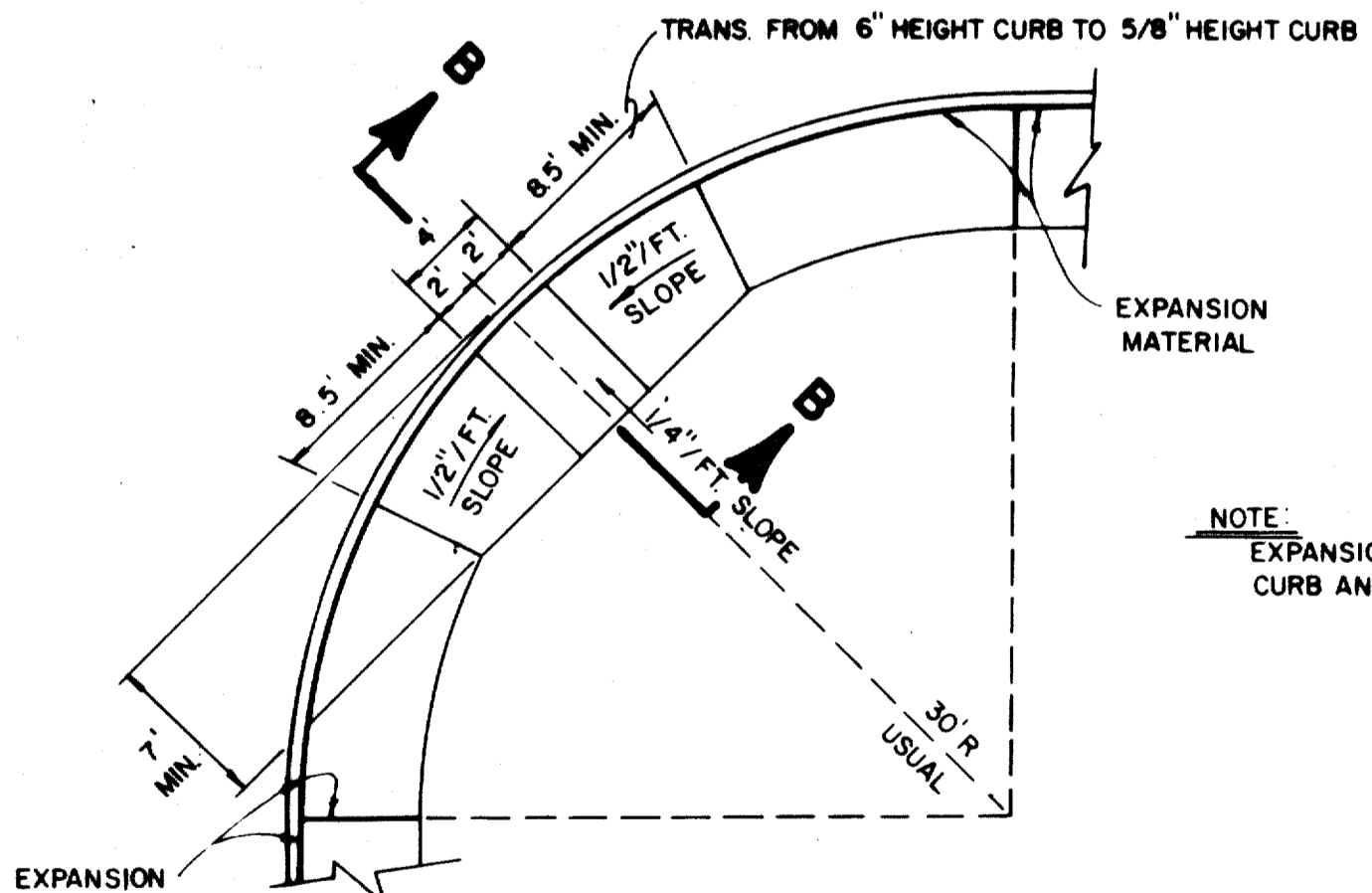


SECTION

CONCRETE SIDEWALK DETAIL

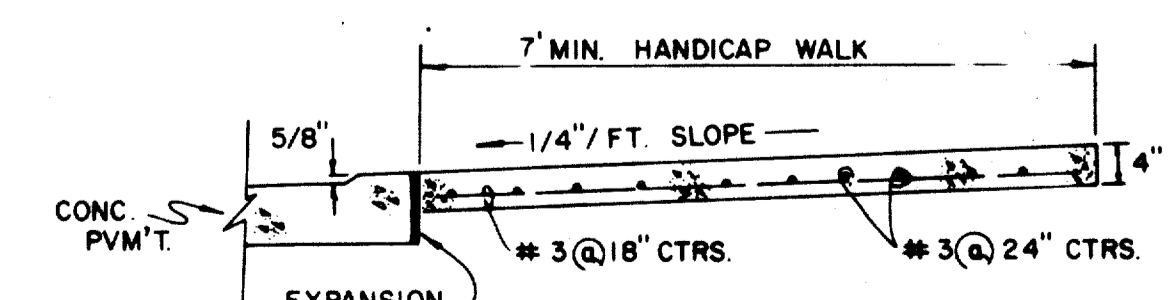


**BARRIER FREE RAMP DETAIL
WITH WALK SEPARATE FROM CURB**



PLAN

NOTE:
EXPANSION MATERIAL ALONG
CURB AND AT CURB RETURNS

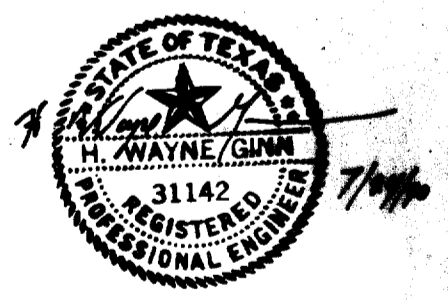


SECTION B-B

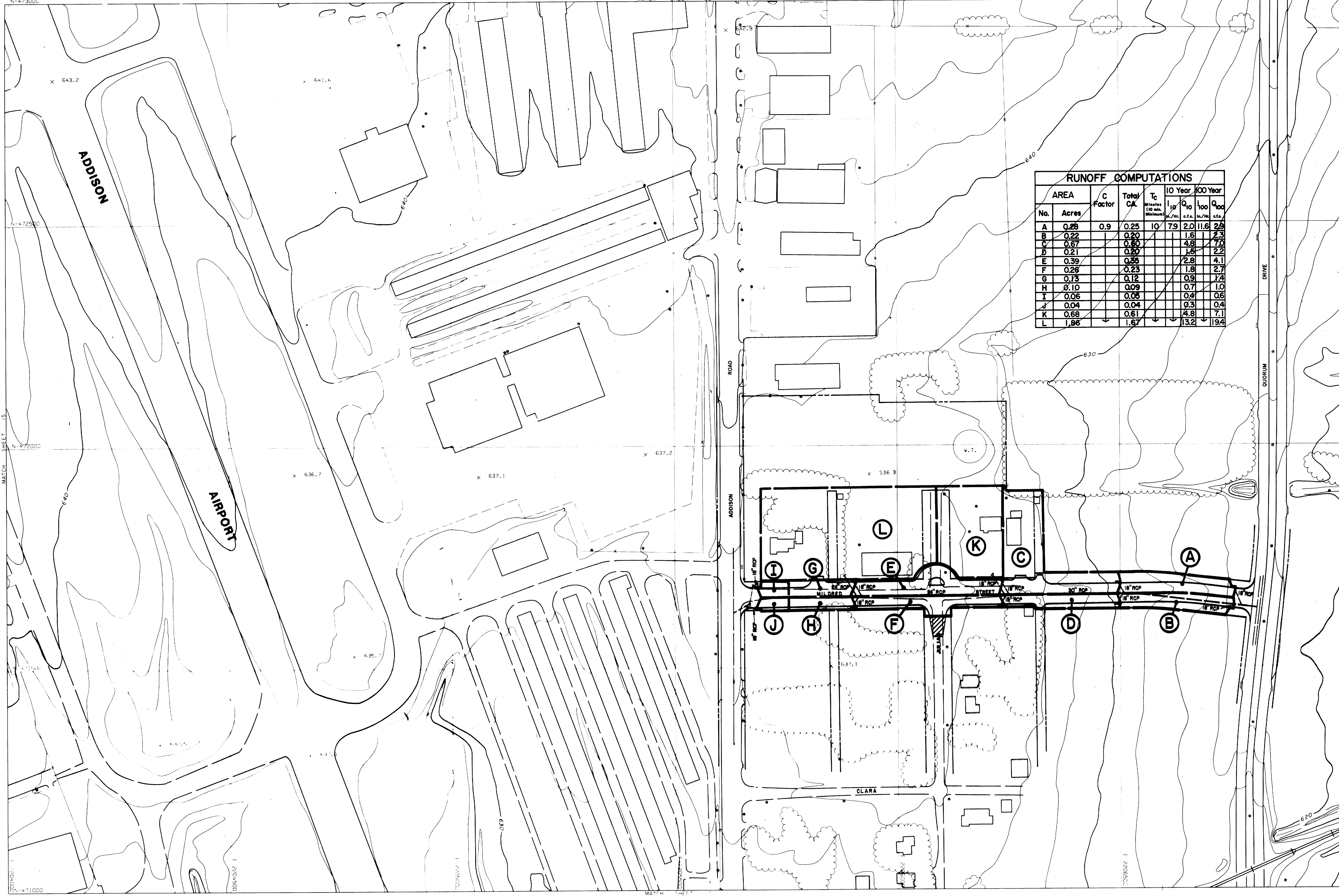
HANDICAP ROLL-DOWN CURB DETAIL

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) footed 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.

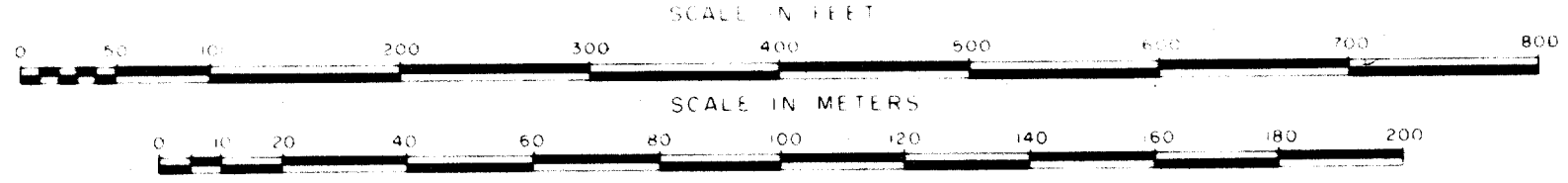


| NO. | REVISION | BY | DATE |
|---|------------|---------------------|-------|
| TOWN OF ADDISON, TEXAS DEPARTMENT OF ENGINEERING | | | |
| STANDARD CONSTRUCTION DETAILS PAVING | | | |
| SIDEWALKS & RAMPS | | | |
| APPROVED _____ | | H. WAYNE GUNN, P.E. | |
| DATE | June, 1990 | SHEET | 80-12 |



| RUNOFF COMPUTATIONS | | | | | | | | |
|---------------------|------|----------|----------|------------------------------|------------------------|-------------------------|-------------------------|--------------------------|
| No. | AREA | C Factor | Total CA | Tc Minutes (10 min. Minimum) | 10 Year | | 100 Year | |
| | | | | | Q ₁₀ c.f.s. | Q ₁₀₀ c.f.s. | Q ₁₀ in./hr. | Q ₁₀₀ in./hr. |
| A | 0.26 | 0.9 | 0.25 | 10 | 7.9 | 2.0 | 11.6 | 2.9 |
| B | 0.22 | | 0.20 | | | 1.6 | 1.3 | 1.7 |
| C | 0.67 | | 0.60 | | | 4.8 | 4.7 | 2.2 |
| D | 0.21 | | 0.20 | | | 1.5 | 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 | |

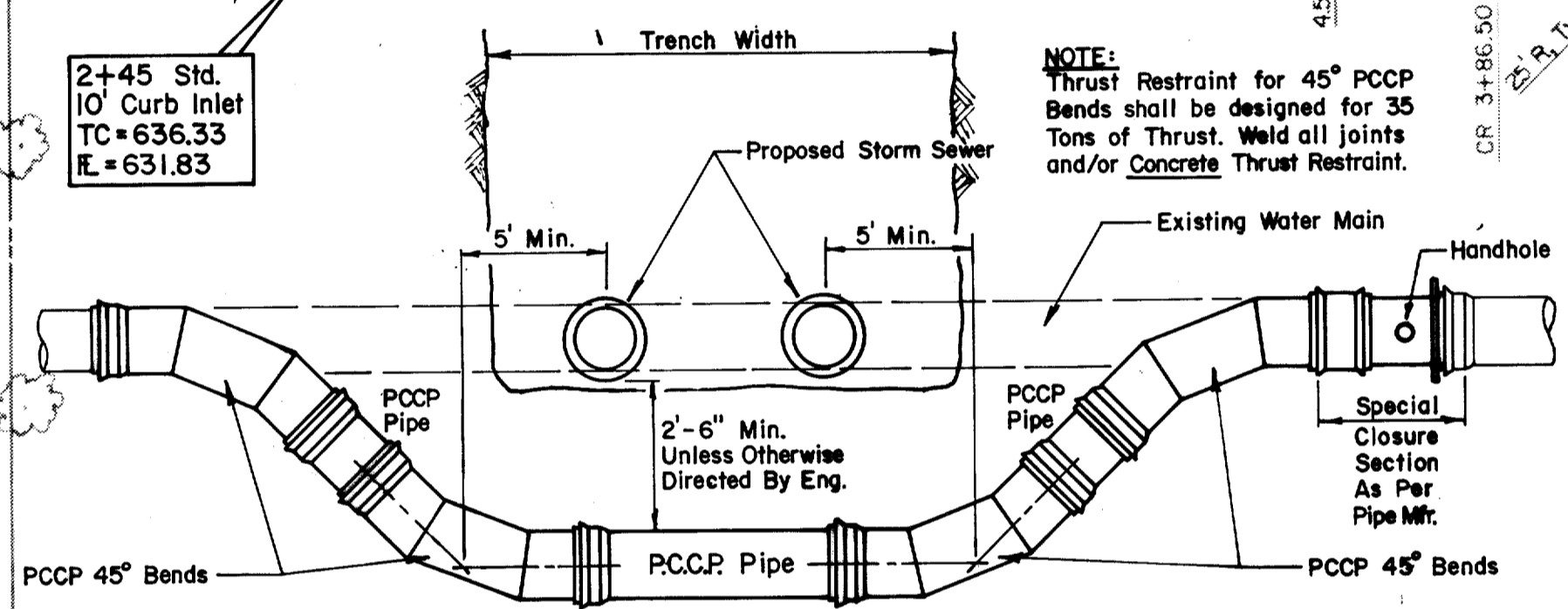
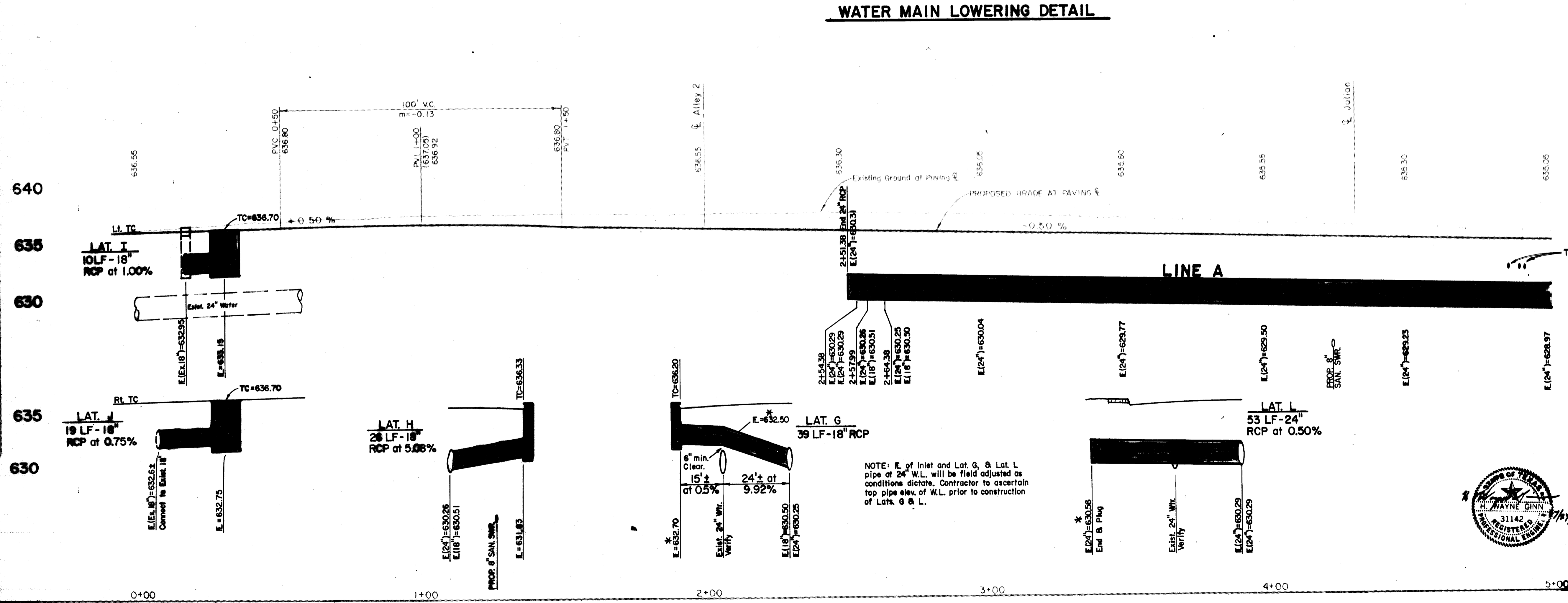
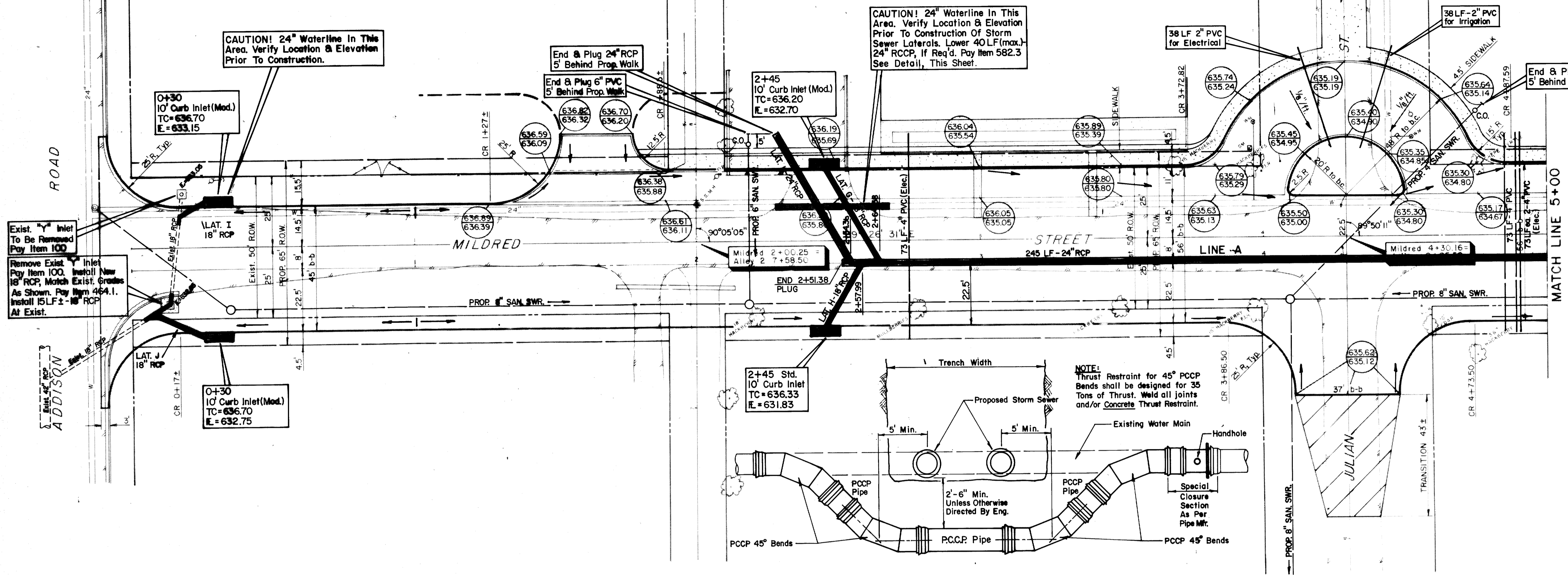
REVISIONS AUG. 1988
 Compiled from aerial photographs taken February 25, 1986 with the Wild RC-8 camera. Horizontal and vertical control was extended from existing U.S. Coast and Geodetic Survey monuments. Further densification was performed by Aero-Triangulation using the Wild BC-1 Avioyt.



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



TOWN OF ADDISON
 DALLAS COUNTY, TEXAS
MILDRED STREET IMPROVEMENTS
As Built
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 MB of 12



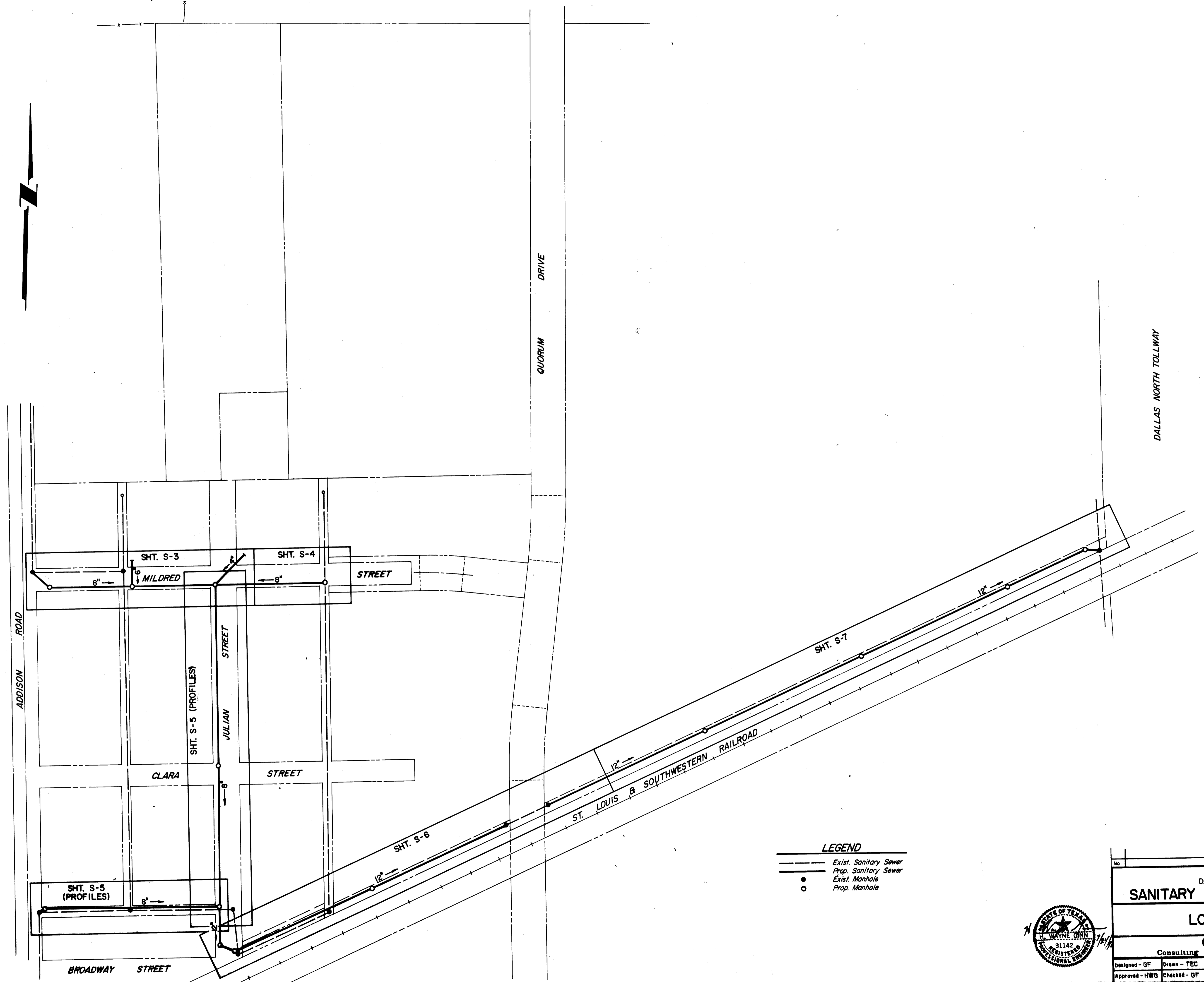
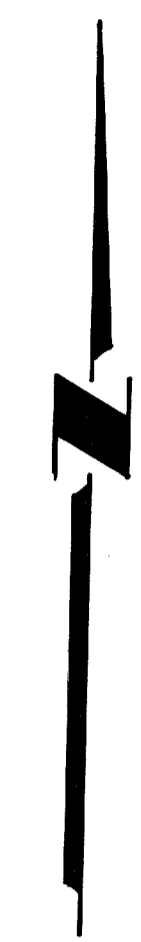
NOTE: All PVC Conduit (Electrical or Irrigation) shall have long radius sweeps with ends terminating 6" above existing ground. Provide PVC cap glued in place. Place conduit minimum 36" deep below finish grade of pavement. See specs. for additional information.

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

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



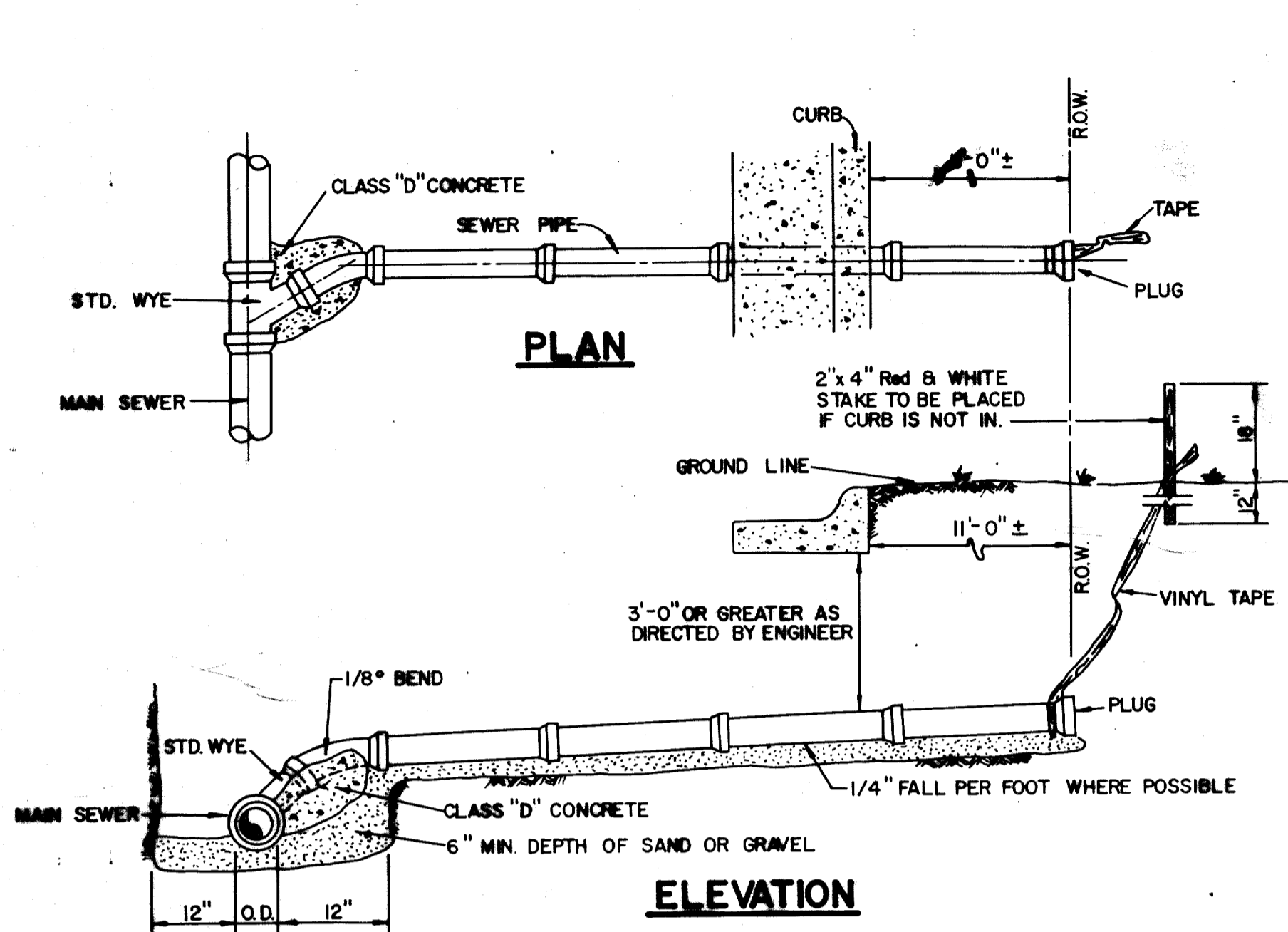
| | | | |
|---|--------------|----------------------------|-----------------|
| TOWN OF ADDISON DALLAS COUNTY, TEXAS | | As Built | |
| MILDRED STREET IMPROVEMENTS | | | |
| DRAINAGE | | | |
| STA. 0+00 TO STA. 5+00 | | | |
| GINN, INC. | | | |
| Consulting Engineers Dallas, Texas | | | |
| Designed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



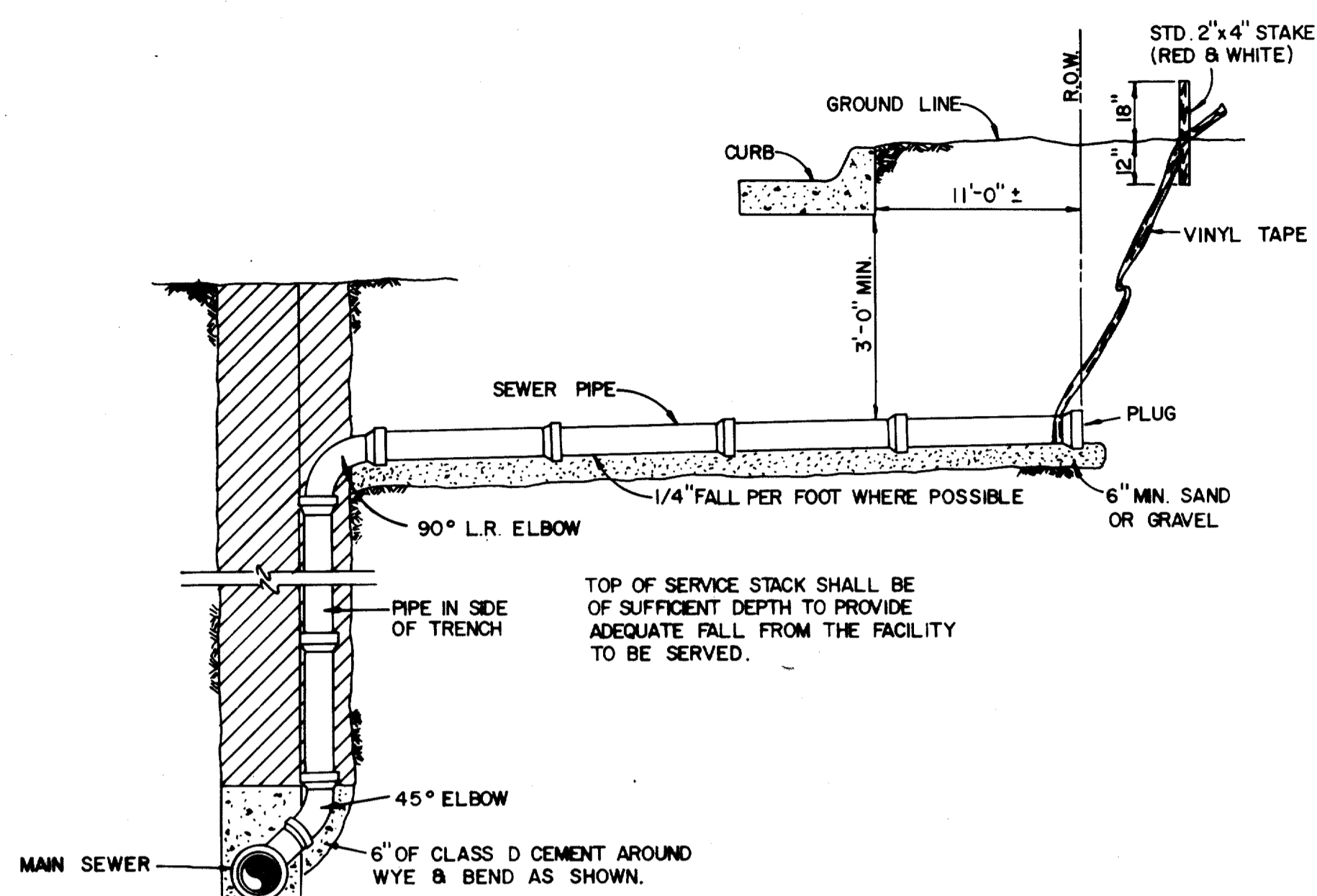
- LEGEND**
- Existing Sanitary Sewer
 - Proposed Sanitary Sewer
 - Existing Manhole
 - Proposed Manhole



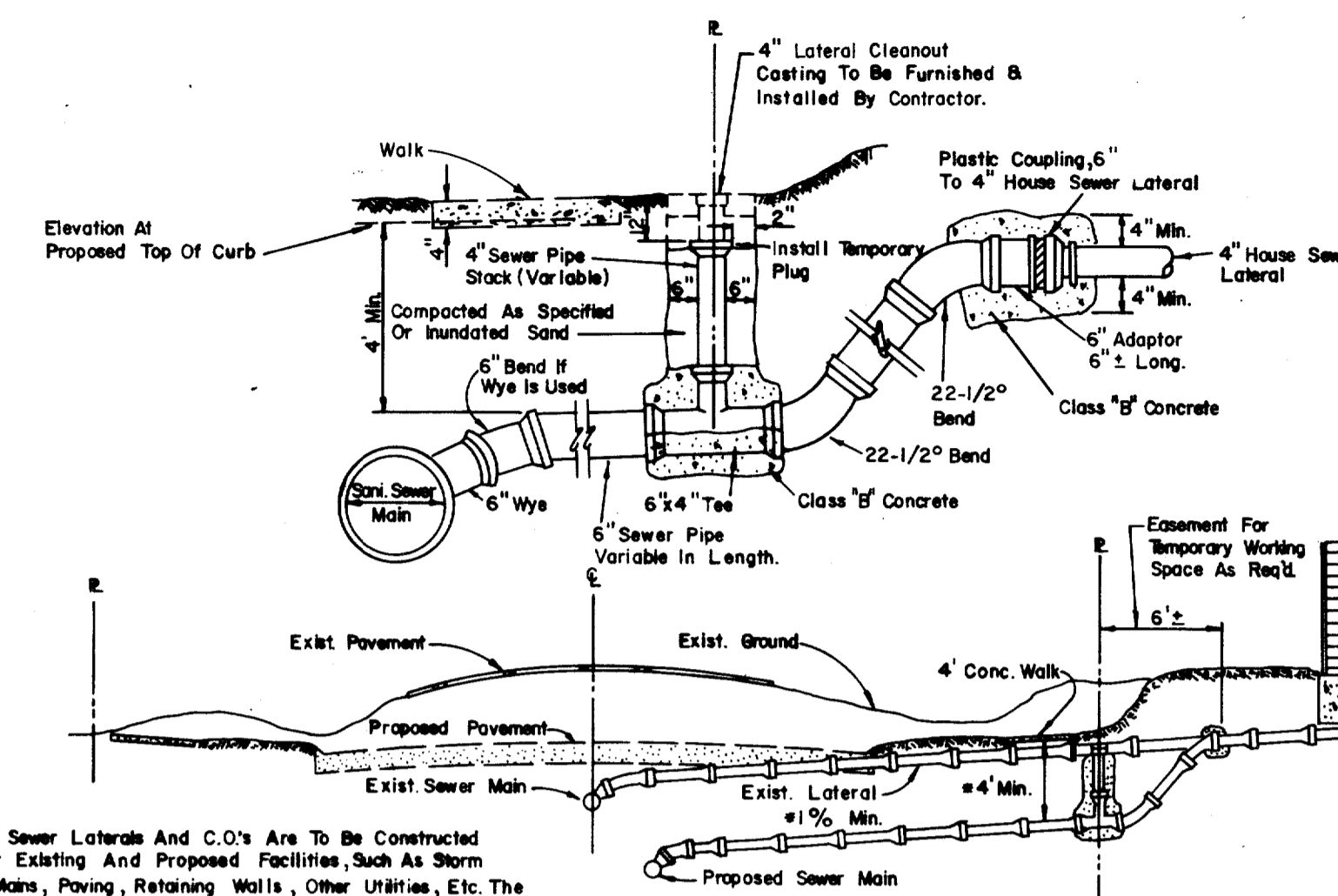
| | | | |
|---|--------------|-------------------|-----------------|
| No. | Revision | By | Date |
| TOWN OF ADDISON DALLAS COUNTY, TEXAS | | | |
| As Built SANITARY SEWER IMPROVEMENTS | | | |
| LOCATION MAP | | | |
| GINN, INC. | | | |
| Consulting Engineers Dallas, Texas | | | |
| Designed - GF | Drawn - TEC | Date - June, 1990 | Job No. - 90443 |
| Approved - HWG | Checked - GF | Scale - 1" = 100' | Sheet 31 of 16 |



SANITARY SEWER SERVICE CONNECTION



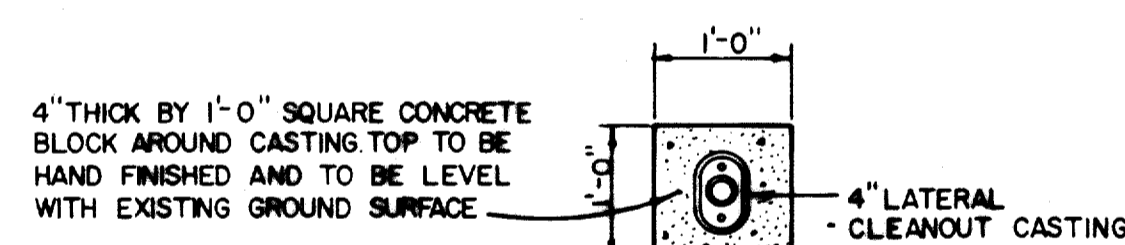
SANITARY SEWER DEEP SERVICE CONNECTION



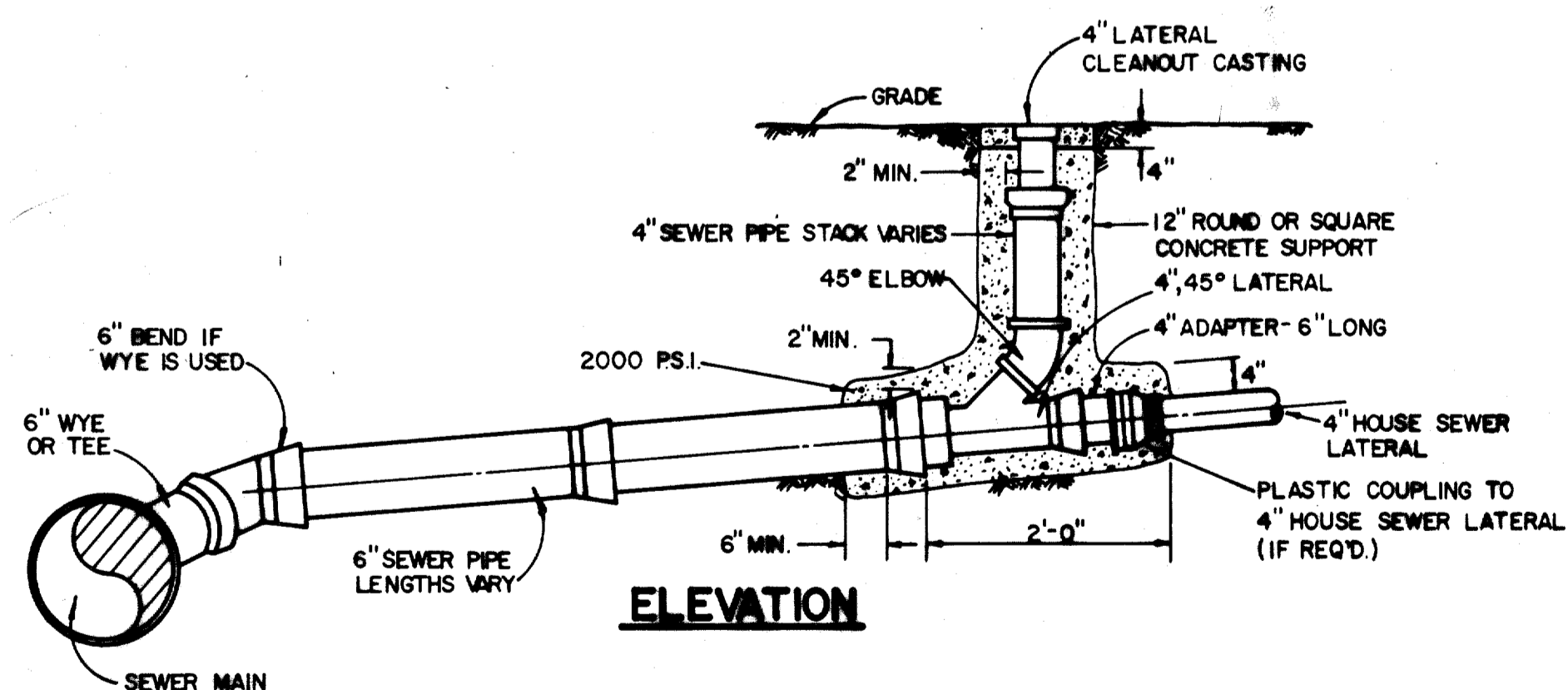
Sanitary Sewer Laterals And C.O.'s Are To Be Constructed To Clear Existing And Proposed Facilities, Such As Storm Sewer, Main, Paving, Retaining Walls, Other Utilities, Etc. The Sanitary Sewer Lateral Will Have A Min. Cover Of 4' Below The Proposed Curb Grade At The Property Line.

SANITARY SEWER LATERAL REPLACEMENT

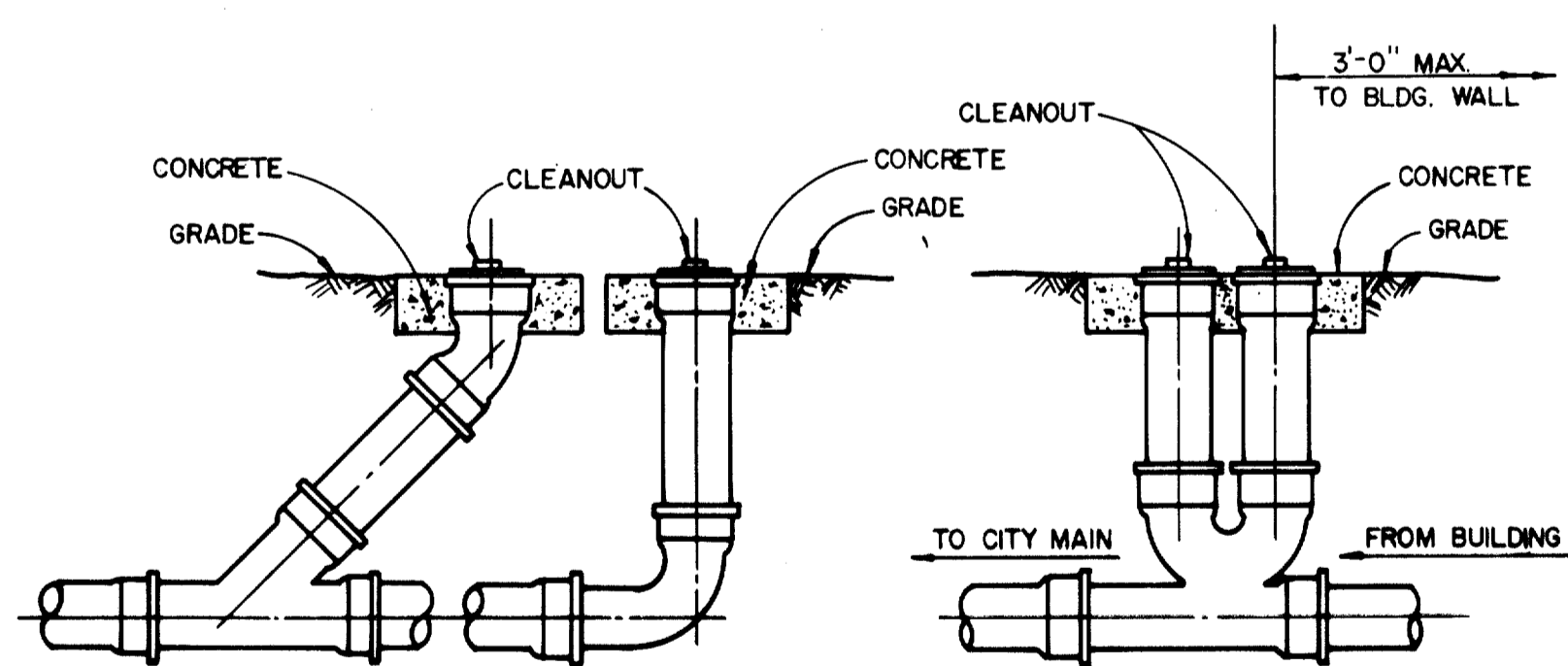
NOTE: Cleanout To Be Installed On Property Line Except As Required To Avoid Conflict With Existing Or Proposed Facilities In Which Case The Location Shall Be Determined By The Engineer.



PLAN



ELEVATION



IN LINE

AT END

DOUBLE CLEANOUT

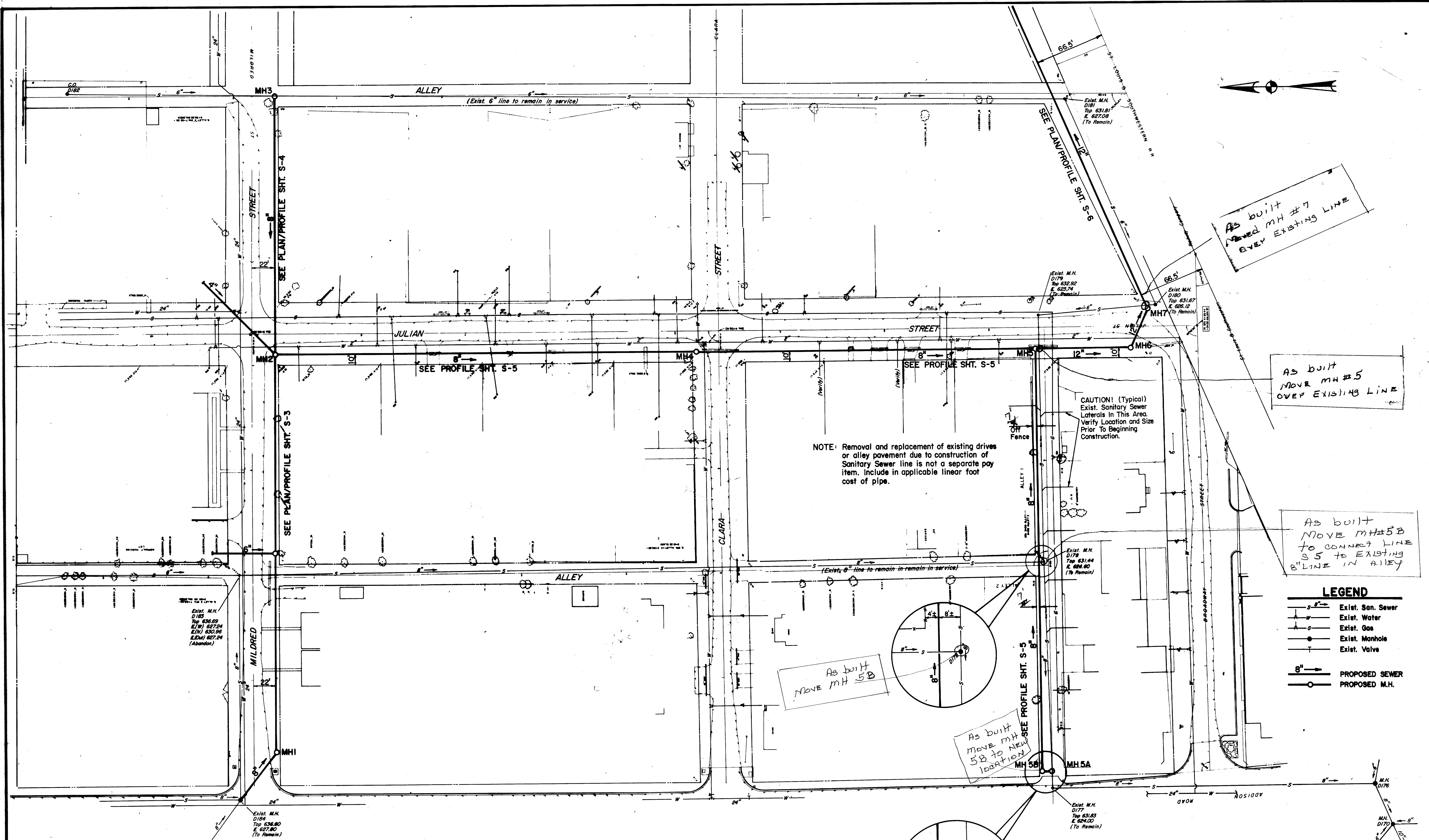
TYPICAL CLEANOUTS

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.



SD22

| No. | Revision | By | Date |
|---|----------------|-------------------|-----------------|
| STANDARD CONSTRUCTION DETAILS SANITARY SEWER | | | |
| LATERALS AND CLEANOUTS | | | |
| GINN, INC. Consulting Engineers Dallas, Texas | | | |
| Designed - GINN | Drawn - GINN | Date - June, 1990 | Job No. - 90443 |
| Approved - GINN | Checked - GINN | Scale - None | Sheet S10 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 CONNECT LINE
S-5 TO EXISTING
8" LINE IN ALLEY

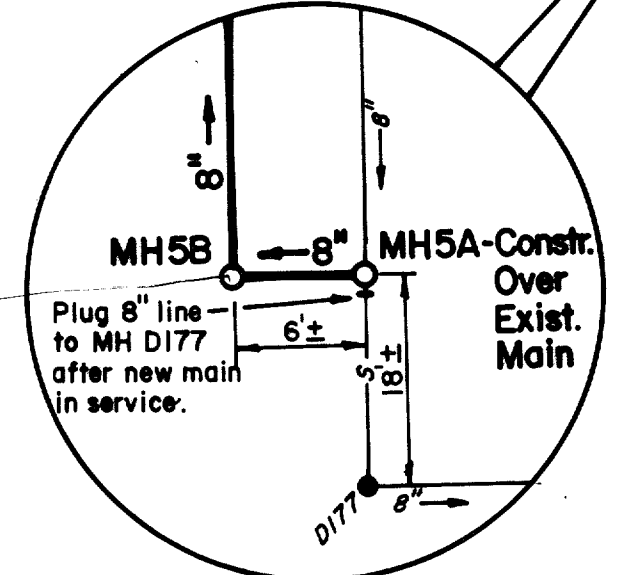
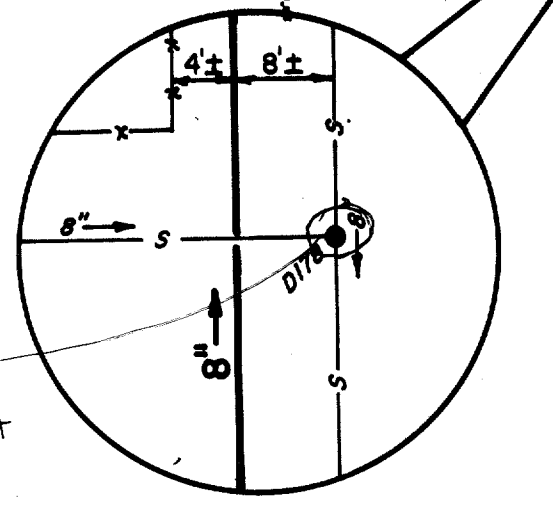
As built
MOVE MH 5B

As built
MOVE MH
5B TO NEW
LOCATION

As built
MOVE MH 5B
TO NEW LOCATION

LEGEND

| | |
|--|-------------------|
| | Exist. San. Sewer |
| | Exist. Water |
| | Exist. Gas |
| | Exist. Manhole |
| | Exist. Valve |
| | PROPOSED SEWER |
| | PROPOSED M.H. |

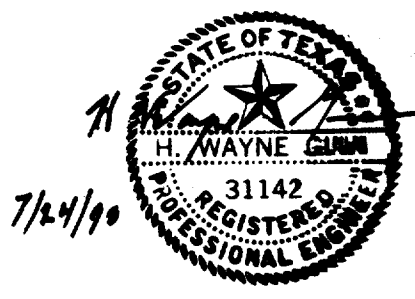


TOWN OF ADDISON
DALLAS COUNTY, TEXAS
SANITARY SEWER IMPROVEMENTS

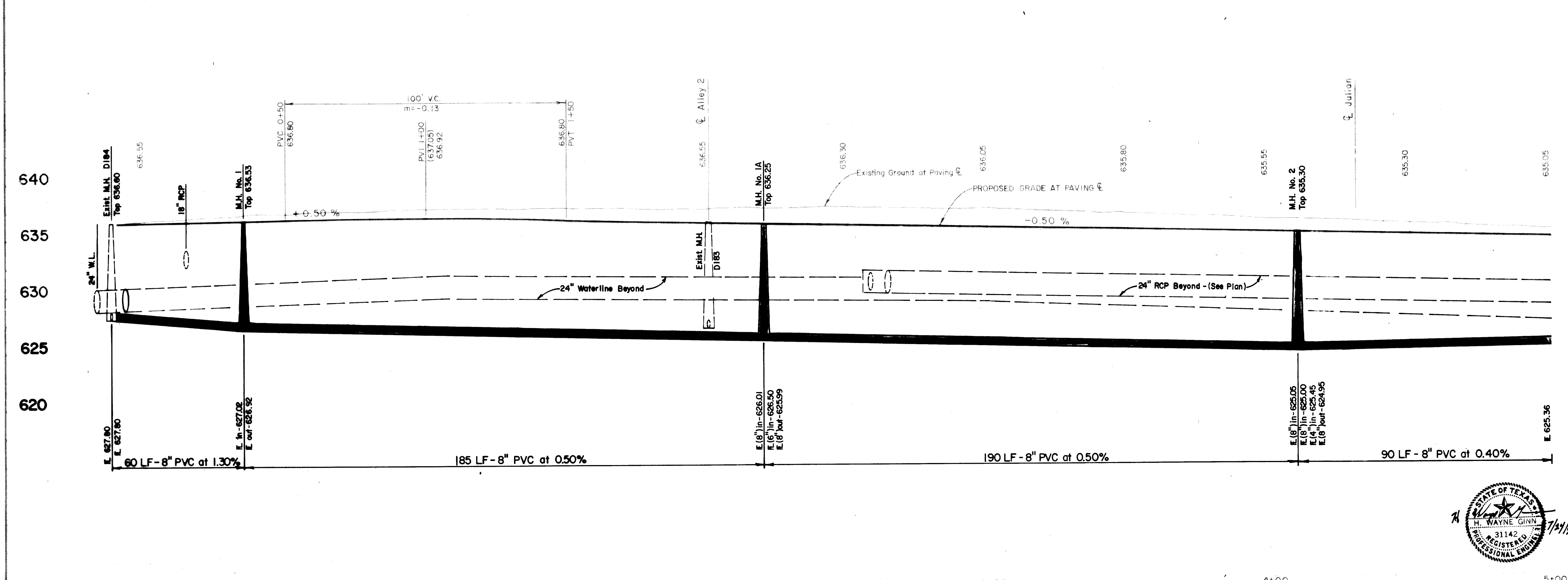
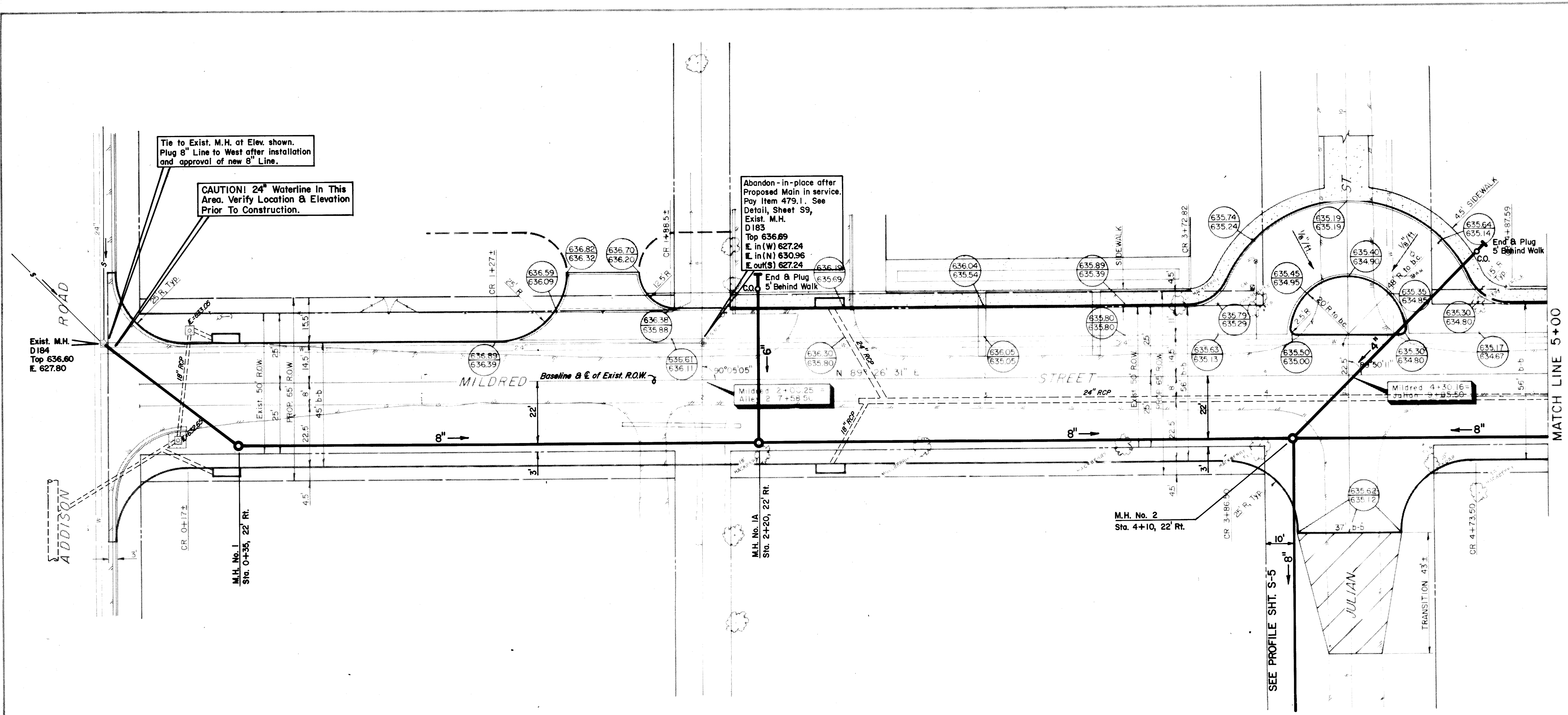
PLAN

GINN, INC.
Consulting Engineers Dallas, Texas

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



7/24/90



| No. | Revision | By | Date |
|-----|----------|----|------|
| | | | |

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

As Built
SANITARY SEWER IMPROVEMENTS

MILDRED STREET
STA. 0+00 TO STA. 5+00

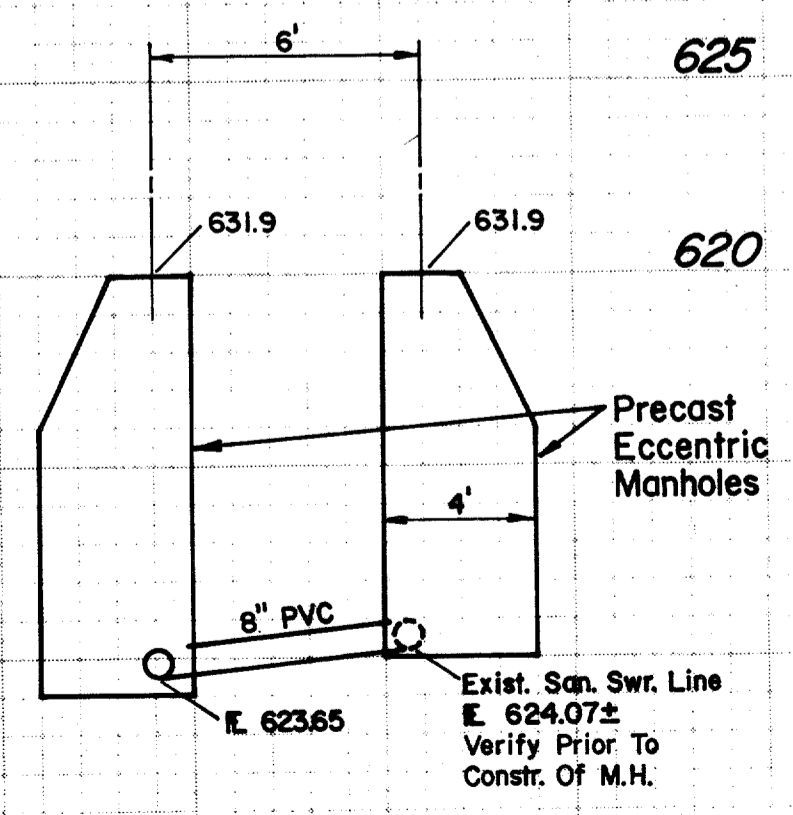
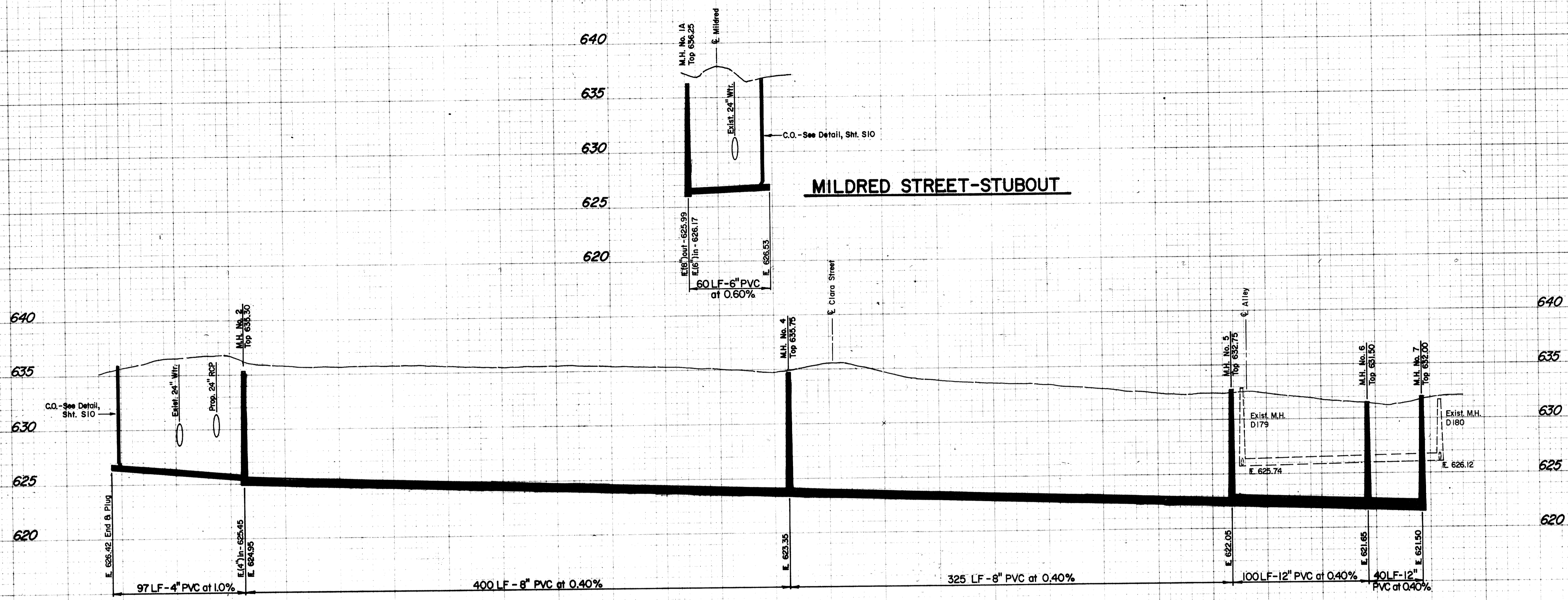
GINN, INC.
Consulting Engineers Dallas, Texas

| | | | |
|----------------|--------------|----------------------------|-----------------|
| Designed - GF | Drawn - TEC | Date - May, 1990 | Job No. - 90443 |
| Approved - HWG | Checked - GF | Scale - 1" = 20'H/1" = 5'V | Sheet S3 of 10 |

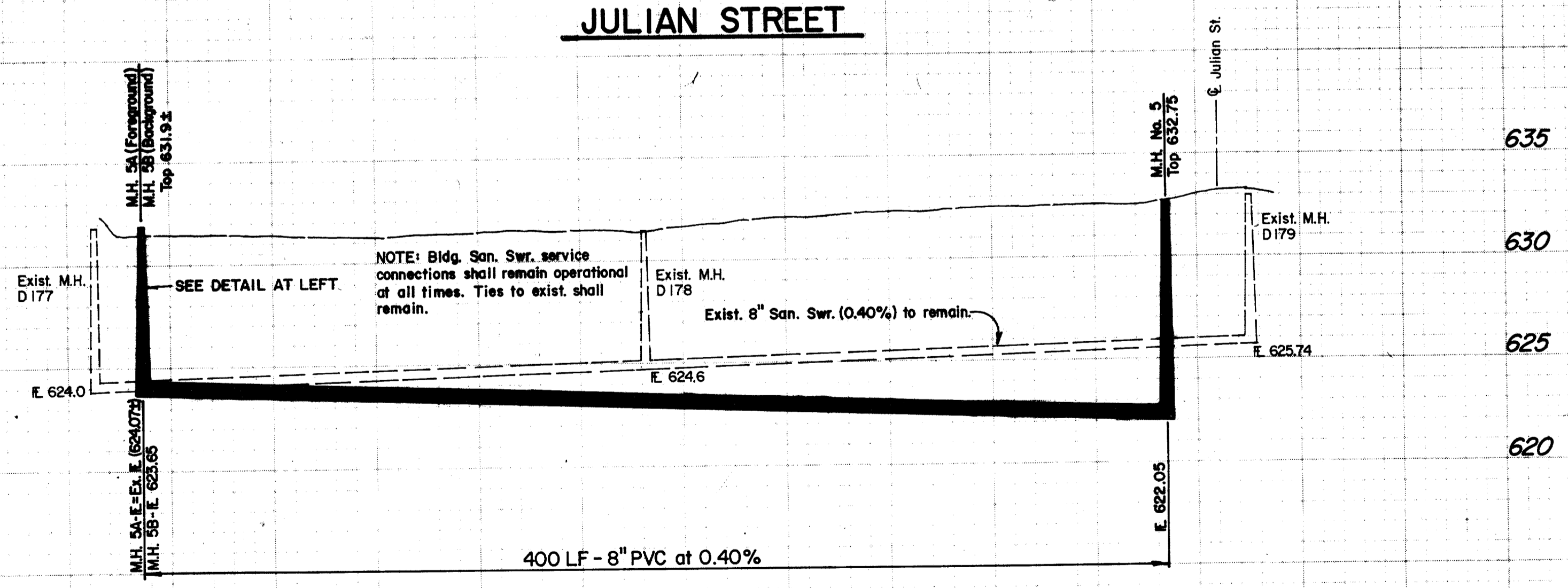


FINAL SURVEY DATE

ORIGINAL SURVEY DATE

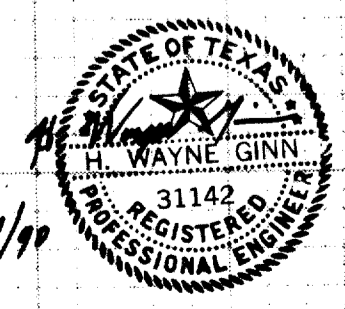


DETAIL
No Scale

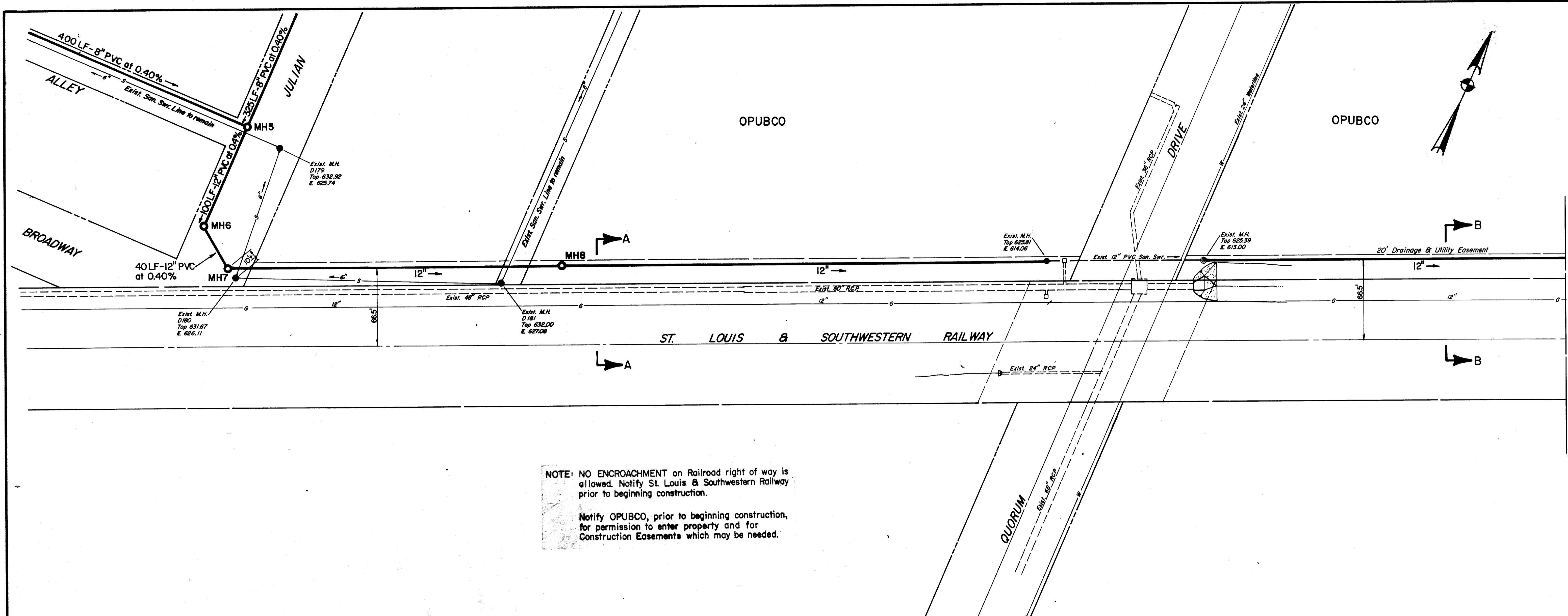


NOTE: Bldg. San. Swr. service connections shall remain operational at all times. Ties to exist. shall remain.
Exist. 8" San. Swr. (0.40%) to remain.

ALLEY

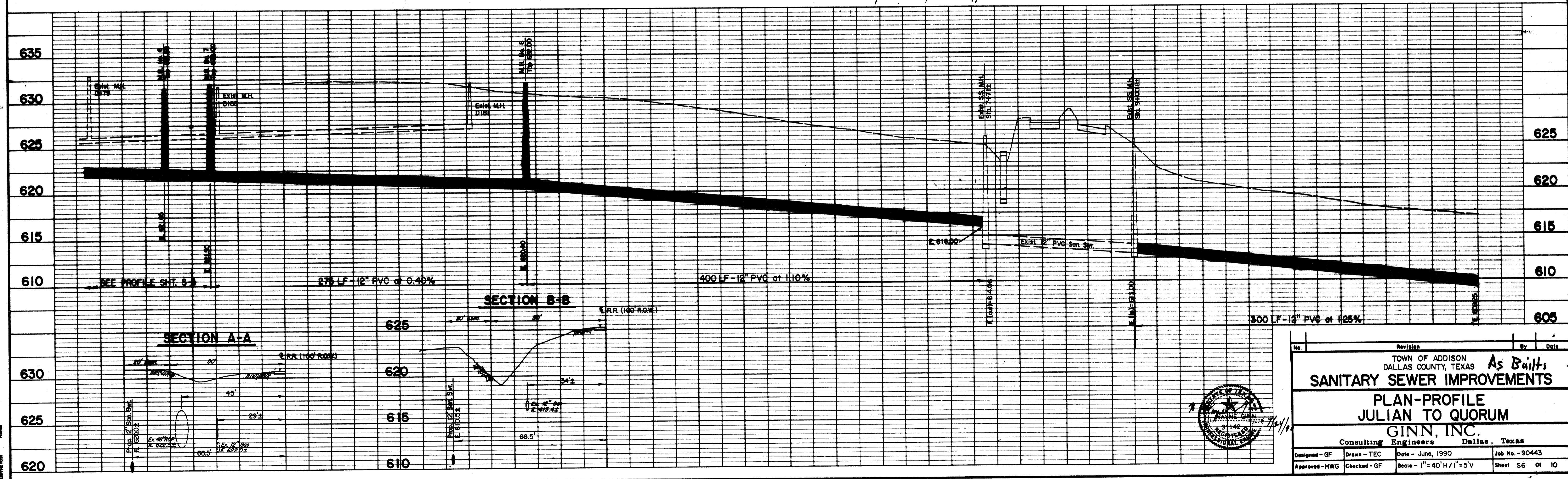


| No. | Revision | By | Date |
|--|--------------|--------------------------|-----------------|
| TOWN OF ADDISON DALLAS COUNTY, TEXAS SANITARY SEWER IMPROVEMENTS As Built | | | |
| PROFILES JULIAN STREET - ALLEY GINN, INC. Consulting Engineers Dallas, Texas | | | |
| Designed - GF | Drawn - TEC | Date - June, 1990 | Job No. - 90443 |
| Approved - HWG | Checked - GF | Scale - 1"=40' H/1"=5' V | Sheet 55 of 10 |



NOTE: NO ENCROACHMENT on Railroad right of way is allowed. Notify St. Louis & Southwestern Railway prior to beginning construction.

Notify OPUBCO, prior to beginning construction, for permission to enter property and for Construction Easements which may be needed.



| No. | Revision | By | Date |
|-----|----------|----|------|
| | | | |

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

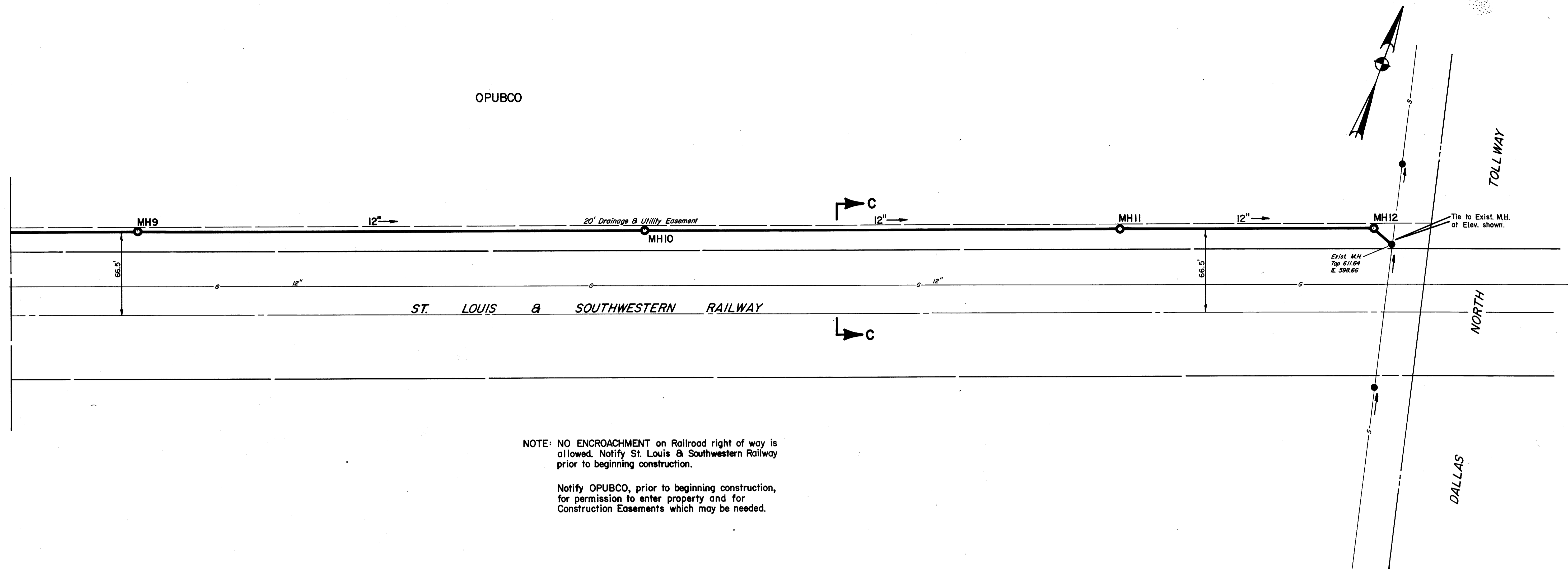
As Built

SANITARY SEWER IMPROVEMENTS

PLAN-PROFILE
JULIAN TO QUORUM

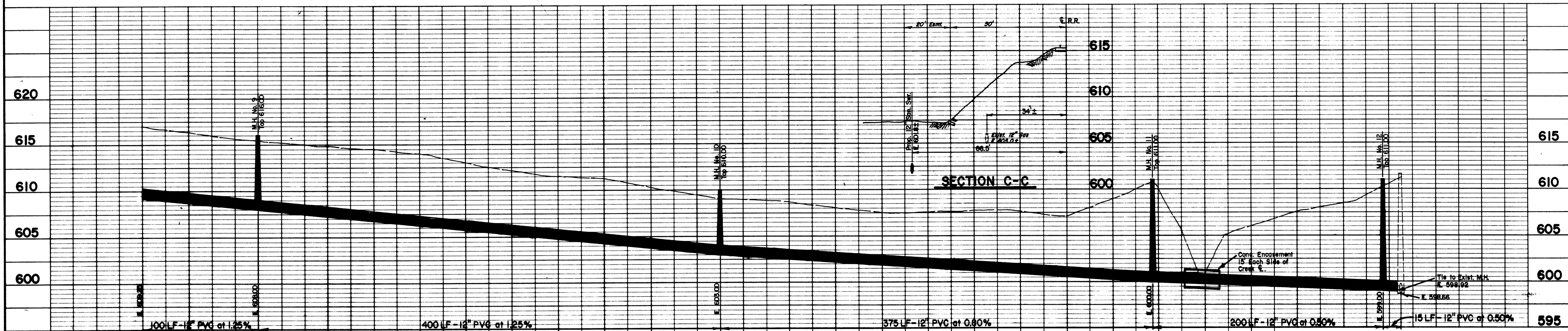
GINN, INC.
Consulting Engineers, Dallas, Texas

Designed - GF Drawn - TEC Date - June, 1990 Job No. - 90443
Approved - HWG Checked - GF Scale - 1" = 40' H / 1" = 5' V Sheet 56 of 10

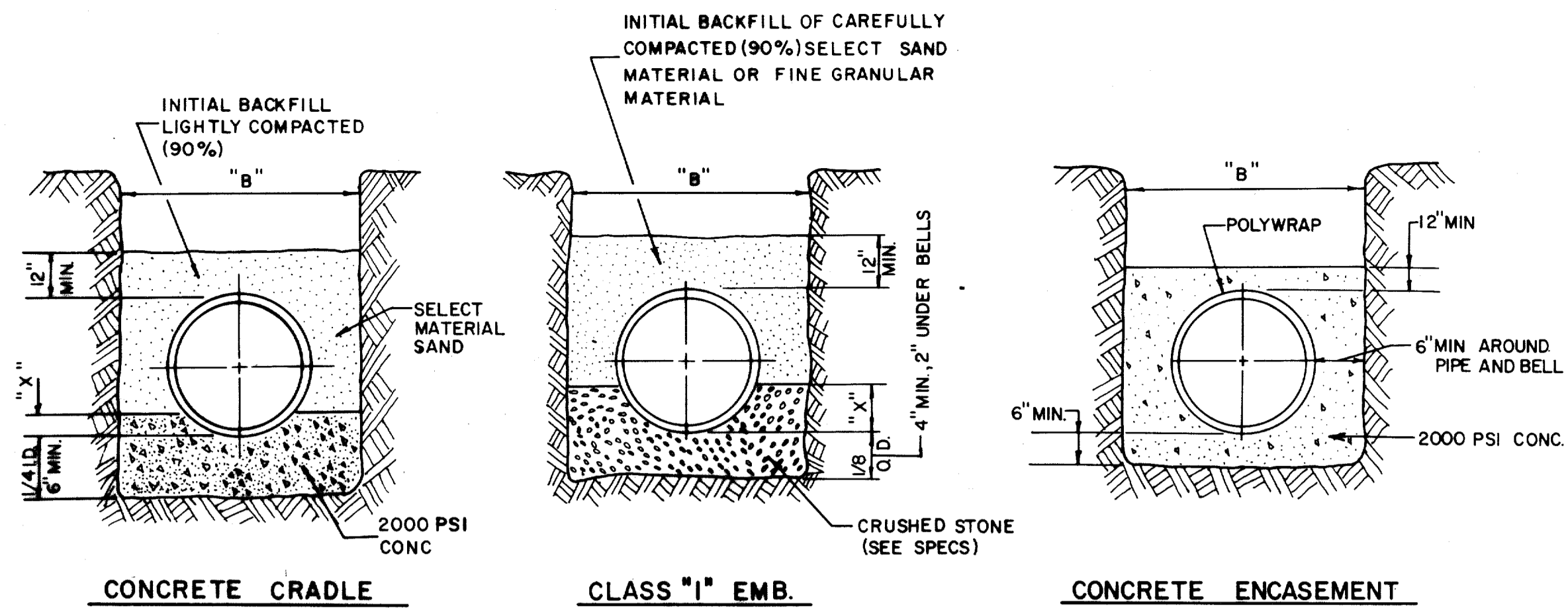


NOTE: NO ENCROACHMENT on Railroad right of way is allowed. Notify St. Louis & Southwestern Railway prior to beginning construction.

Notify OPUBCO, prior to beginning construction, for permission to enter property and for Construction Easements which may be needed.



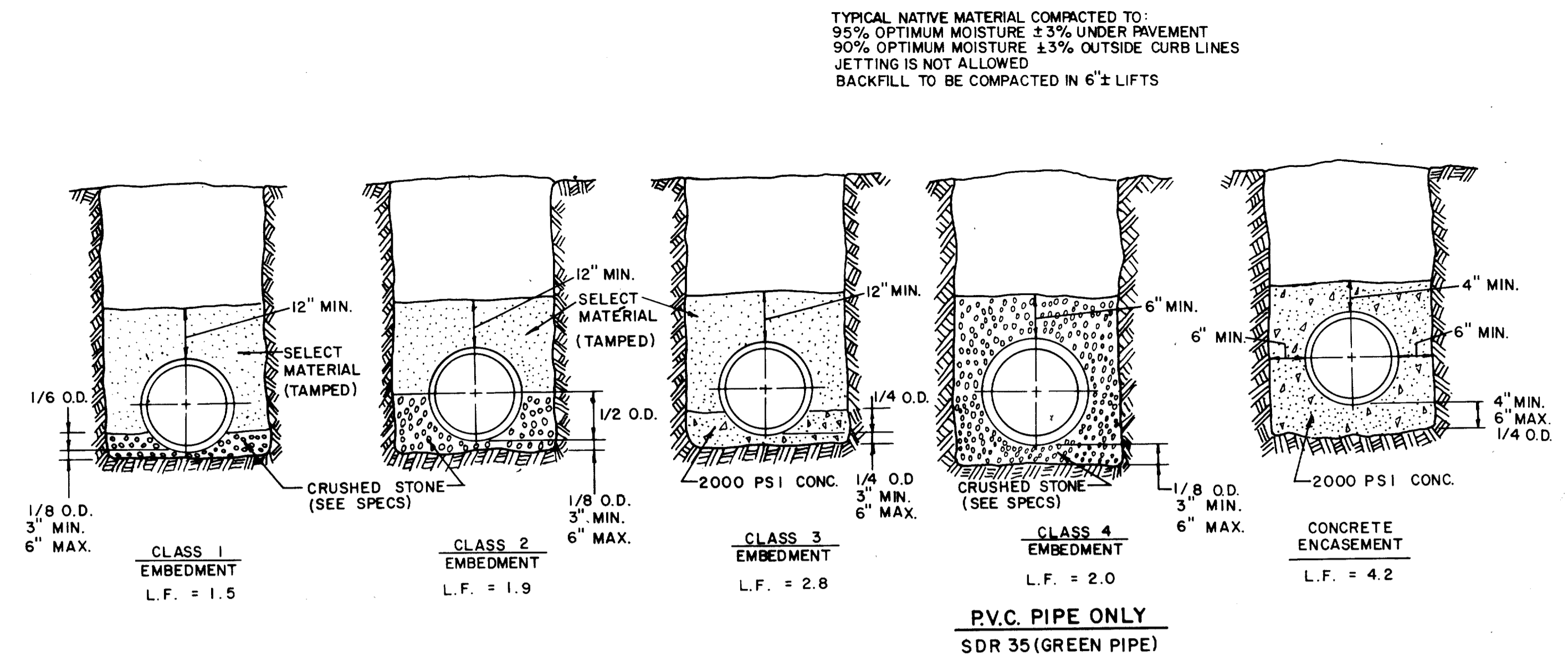
| | | | |
|--|--------------|------------------------------|-----------------|
| No. | Revision | By | Date |
| TOWN OF ADDISON DALLAS COUNTY, TEXAS | | | |
| As Builts SANITARY SEWER IMPROVEMENTS | | | |
| PLAN - PROFILE QUORUM TO DALLAS NORTH TOLLWAY | | | |
| GINN, INC. | | | |
| Consulting Engineers Dallas, Texas | | | |
| Designed - GF | Drawn - TEC | Date - June, 1990 | Job No. - 95245 |
| Approved - HWG | Checked - GF | Scale - 1" = 40'H / 1" = 5'V | Sheet 57 of 10 |



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 | IS A MINIMUM DEPTH | TRENCH WIDTH FOR COMPUTATION OF QUANTITIES | CONCRETE | | CRUSHED STONE FOR CL" 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

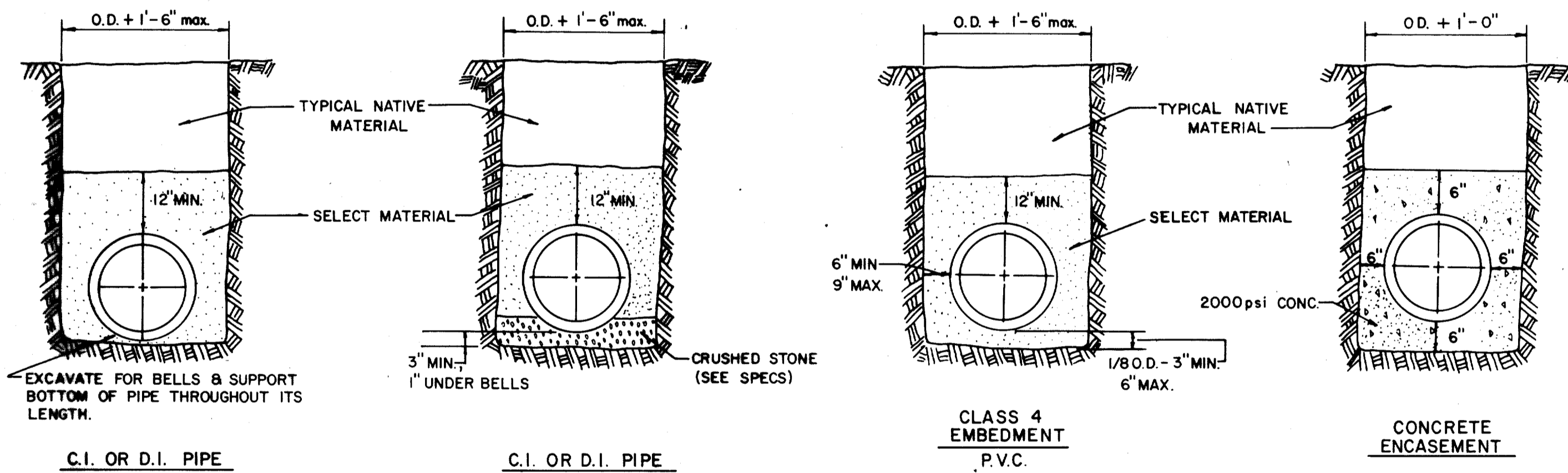
TABLE OF QUANTITIES PER 100 LINEAR FEET REINFORCED CONCRETE PIPE

| 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 |

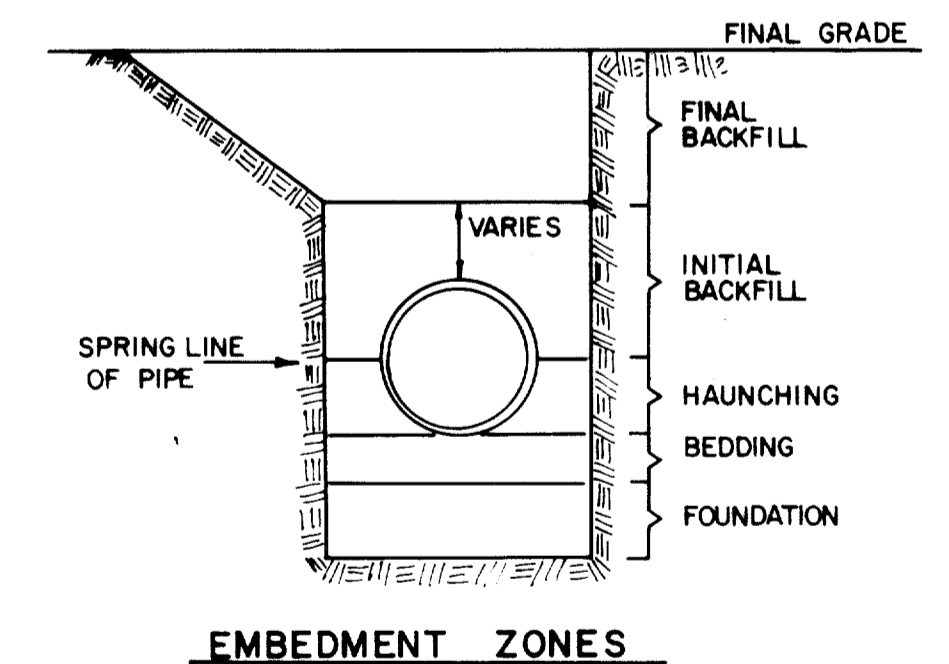
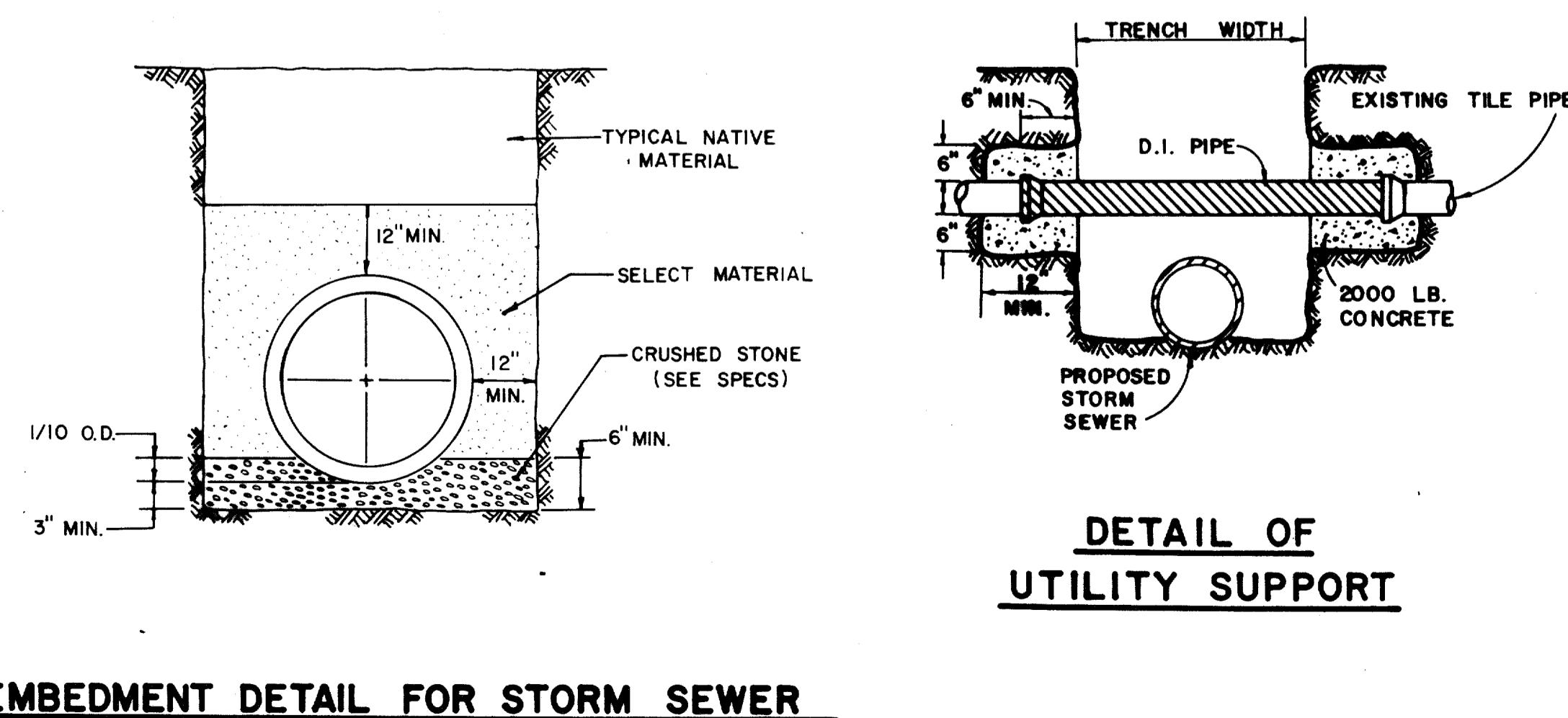
TABLE OF QUANTITIES PER 100 LINEAR FEET-PVC PIPE (IN CUBIC YARDS)

| 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 | 3.0 | | |
| 30 | 30.00 | 42 | 3.5 | | |

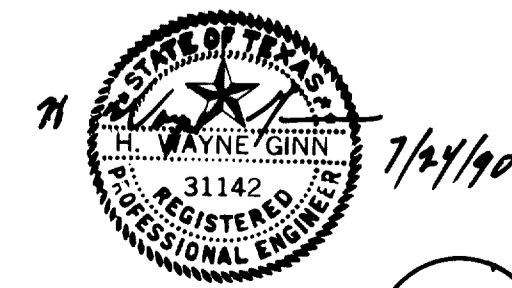
NOTE: ALL SANITARY SEWER LINES THIS PROJECT SHALL HAVE CLASS 4 EMBEDMENT UNLESS OTHERWISE NOTED.



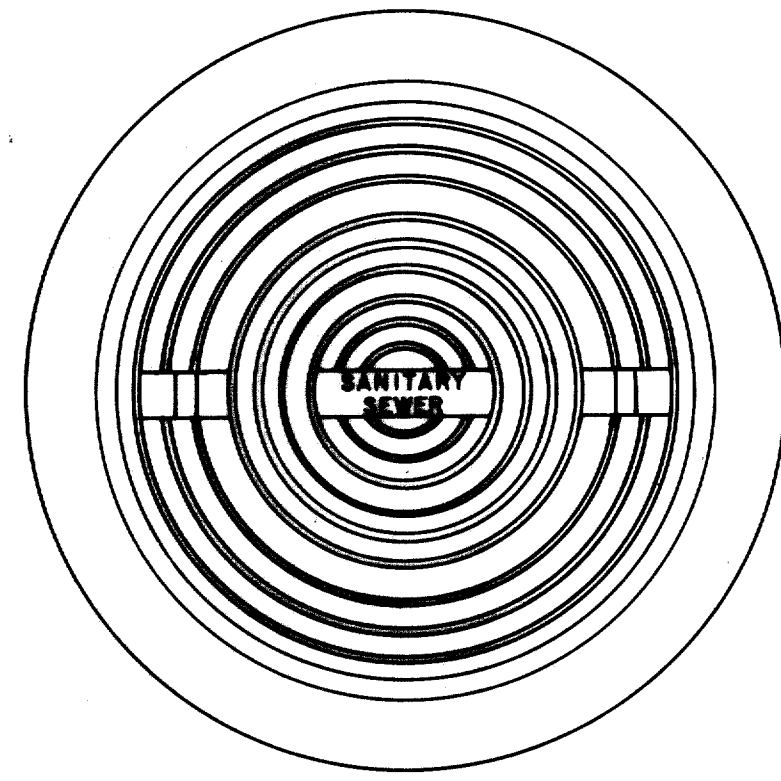
EMBEDMENT DETAILS FOR WATER MAIN



| No. | Revision | By | Date |
|--------------------------------------|----------------|-------------------|-----------------|
| STANDARD CONSTRUCTION DETAILS | | | |
| EMBEDMENT DETAILS | | | |
| GINN, INC. | | | |
| 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 |

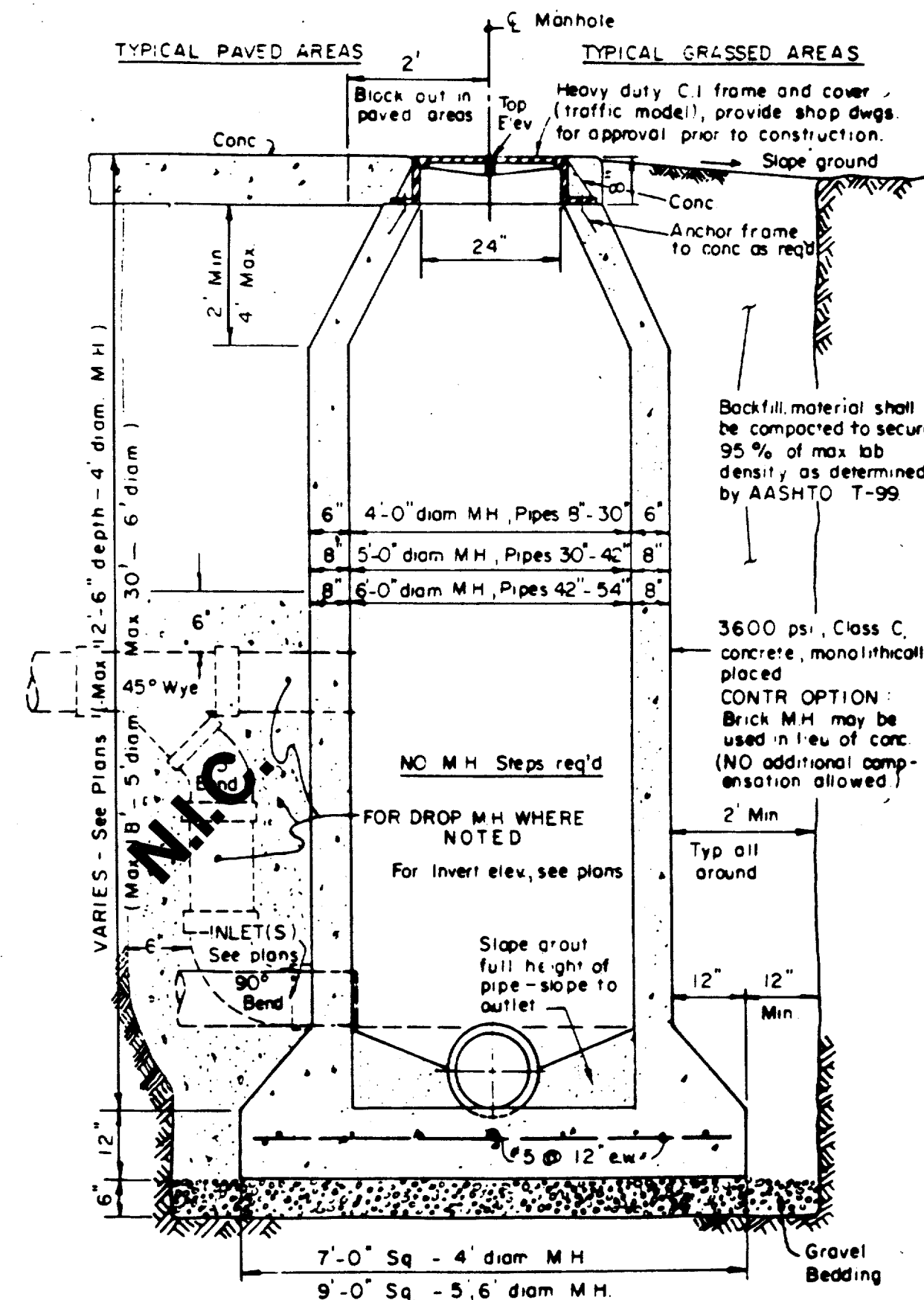
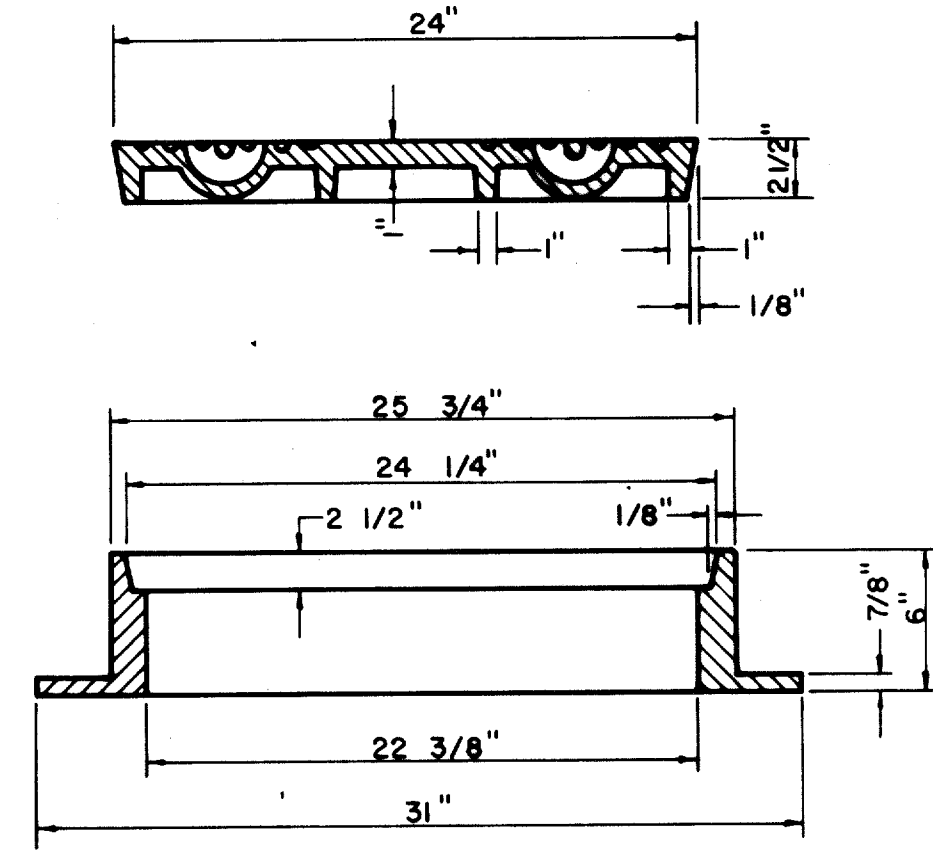


SD20



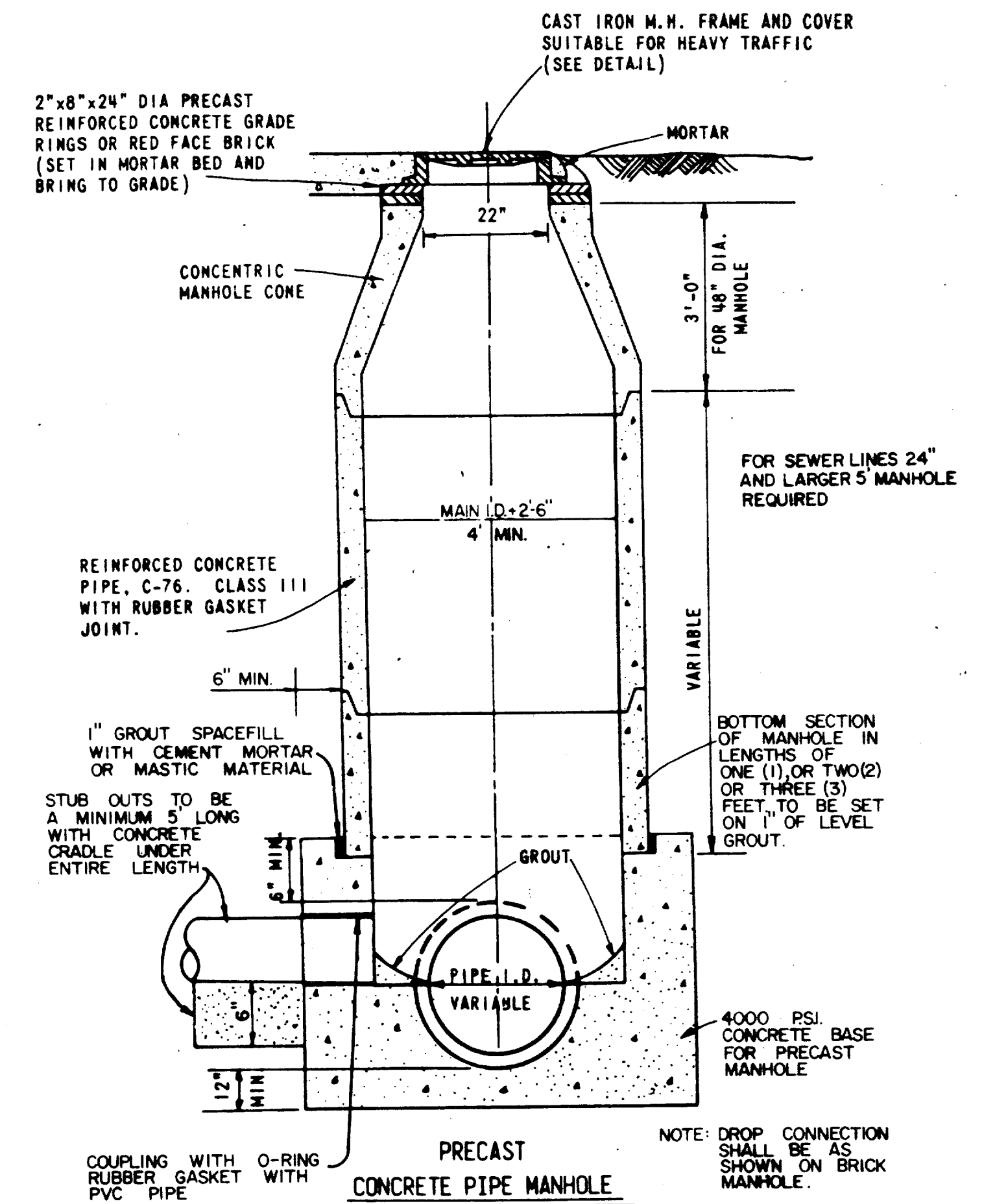
APPROX.
WEIGHT
RING AND COVER
385 LBS.

CAST IRON GRATE AND FRAME DETAIL

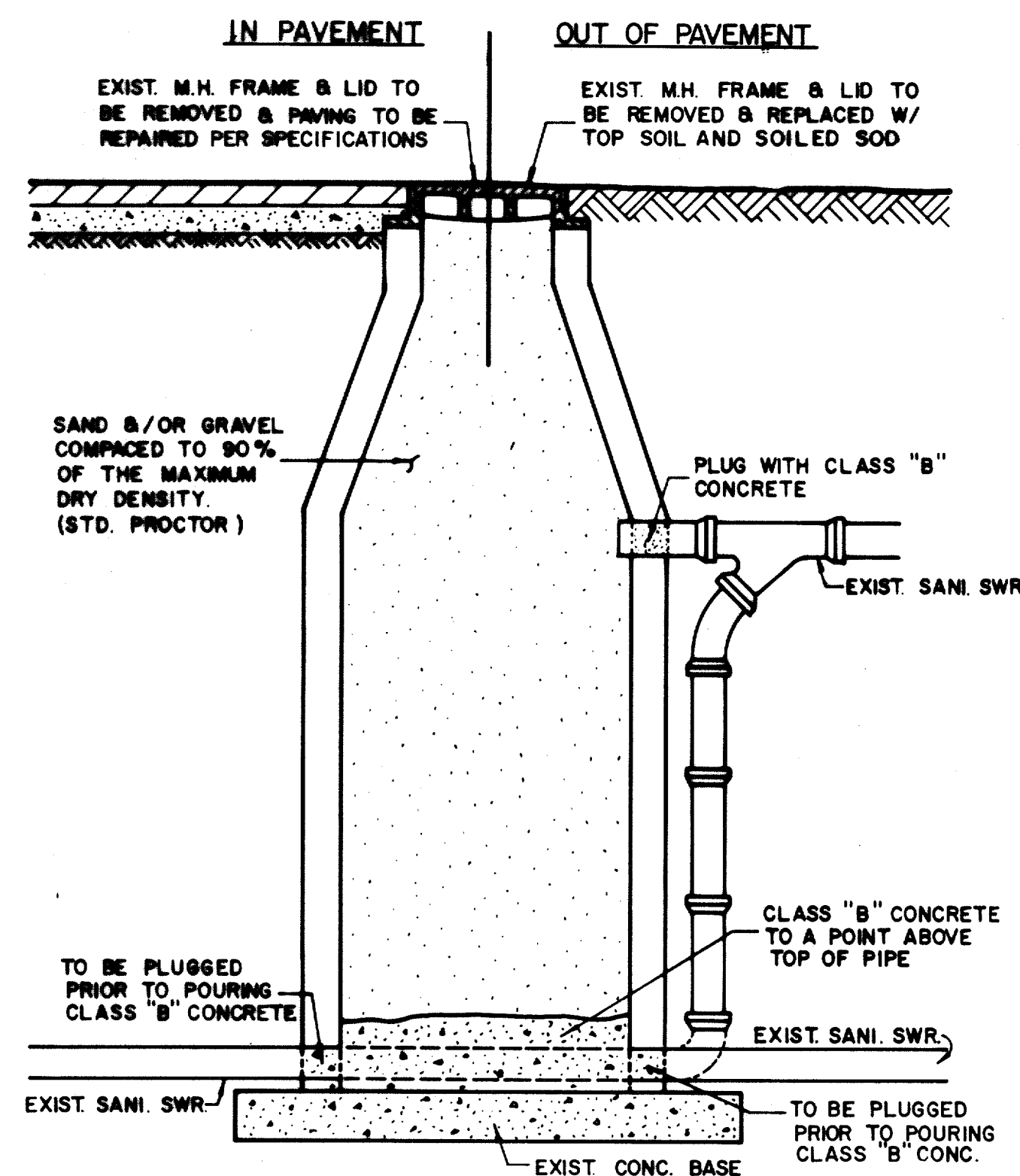


CAST IN PLACE MANHOLE

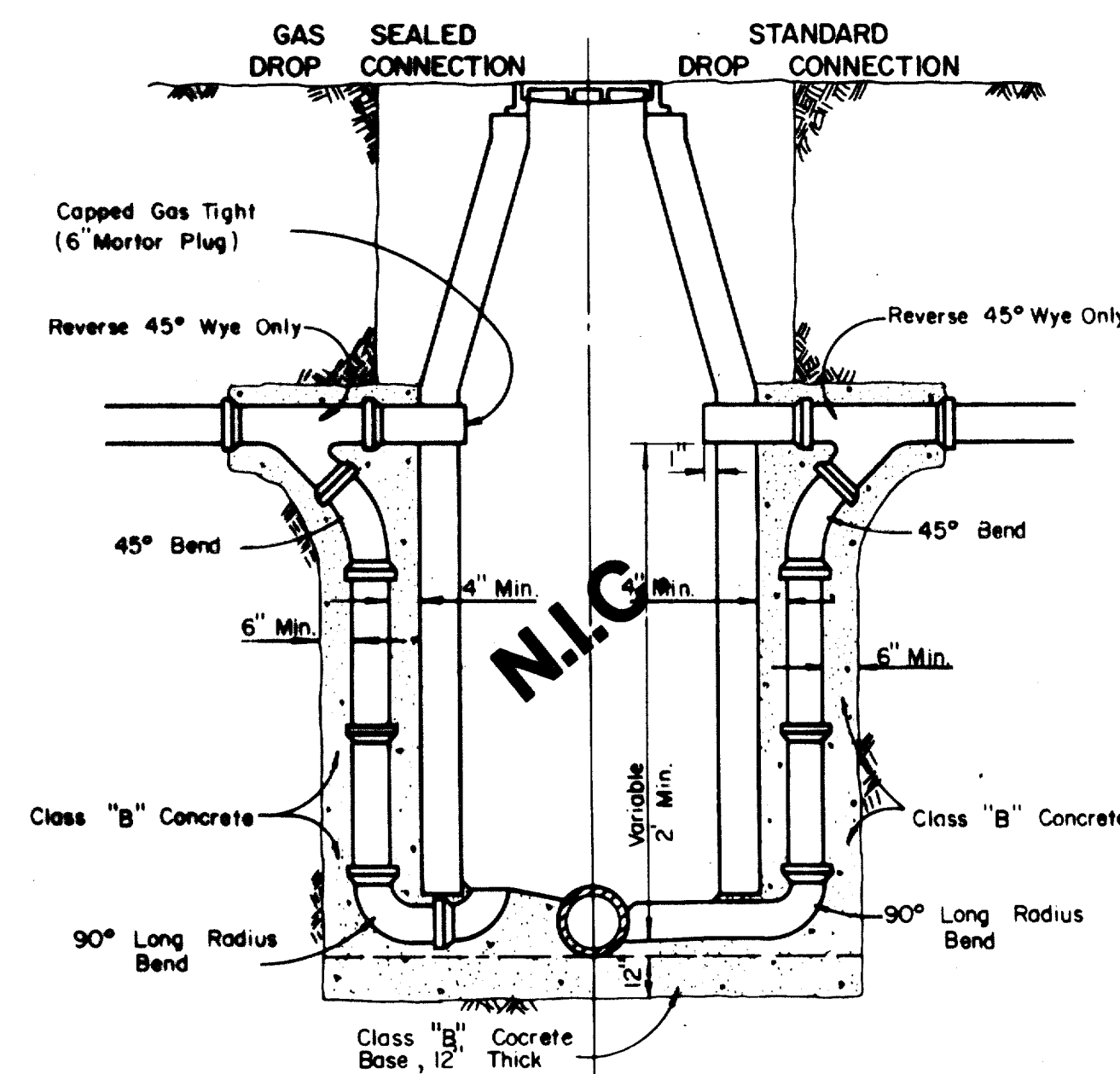
WHERE DROP M.H. IS REQUIRED, USE INSIDE DROP CONNECTION AS PER TOWN OF ADDISON STANDARDS.



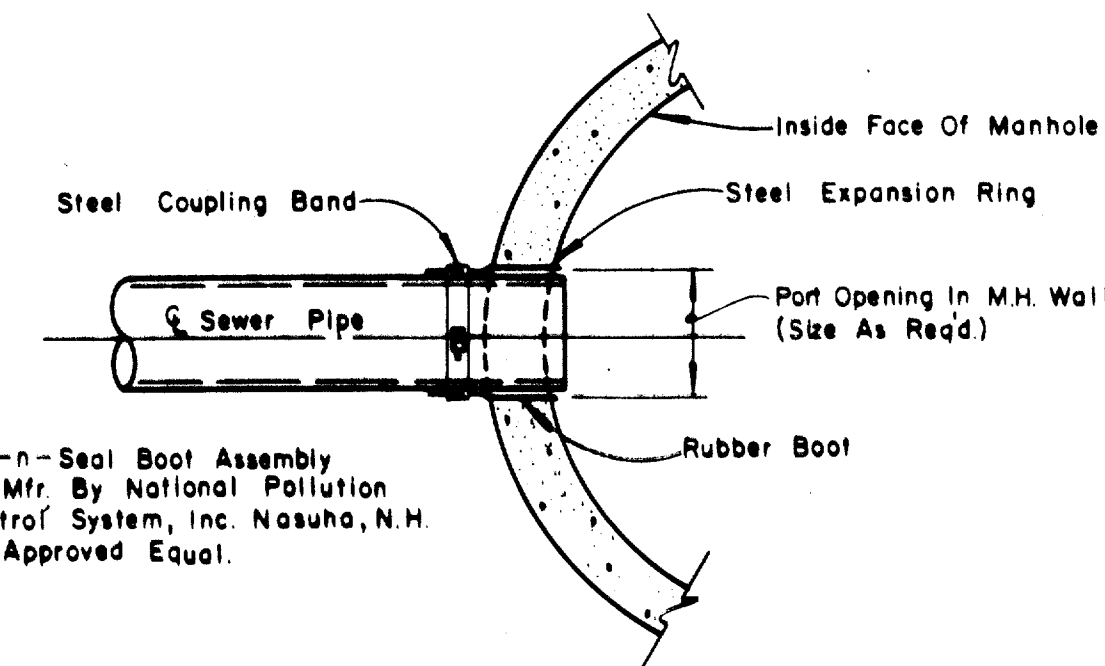
PRECAST MANHOLE



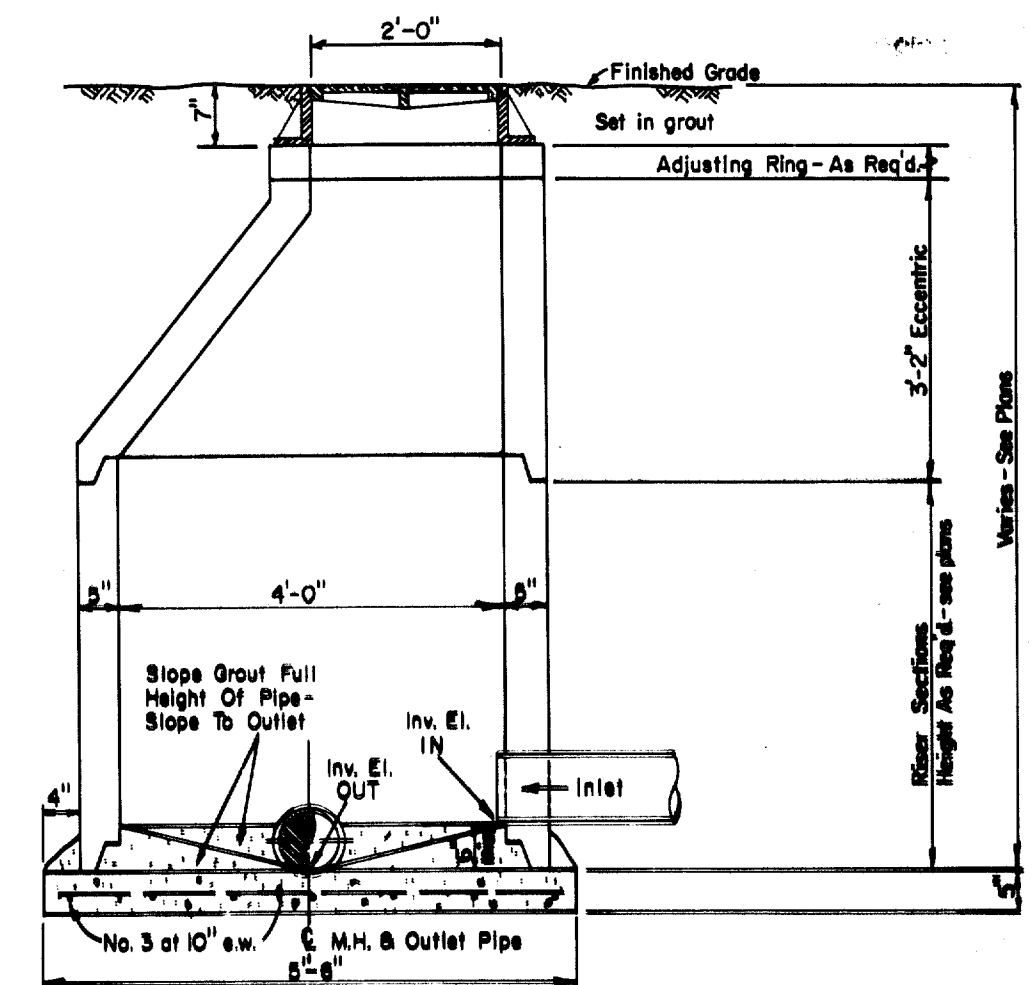
ABANDONMENT OF EXISTING MANHOLE IN AND OUT OF PAVEMENT



DROP CONNECTIONS FOR SANITARY SEWER MANHOLES



TYPICAL SEWER CONNECTION AT MANHOLE



ECCENTRIC MANHOLE DETAIL

NOTE: Contractor To Install Kor-n-Seal Boot Assembly Per Mfr. Recommendations In A Neat And Workman-Like Manner

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

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



SD21