

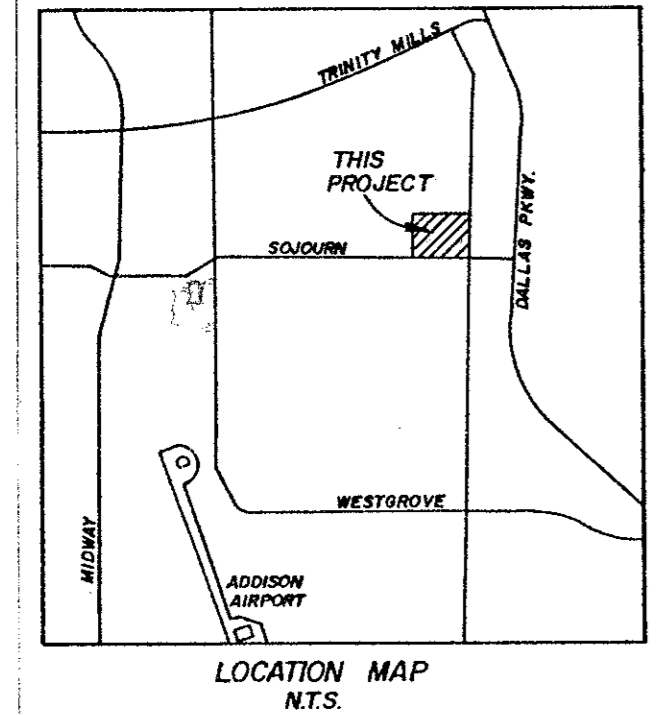
- NOTES:**
- 8" waterline shall be C-900 PVC DR-18.
 - Water main to have minimum depth of cover of 4' below existing grade or as required to clear other utilities. Embedment per city specs.
 - F.H. as required by city.
 - 6" sanitary sewer shall be D-3034 PVC DR-35.
 - Steel encasement pipe shall be smooth bore steel pipe, 14" O.D., 1/4" wall thickness, with bituminous coating.
 - Gate valves shall conform to the AWWA standard for gate valves for ordinary waterworks service, AWWA C 500.
 - Gate valves to be installed with valve box covers and extensions as required.
 - Contractor is cautioned that there may be existing utilities and services existing and not shown on the plan, verify location of all utilities.
 - All construction shall conform to City of Addison standards and specifications.
 - Block all fittings with 2000 p.s.i. conc. per city specs.

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 CIVIL / TRANSPORTATION ENGINEERS • PLANNERS • SURVEYORS
 12860 COIT ROAD, SUITE 200
 DALLAS, TX 75251

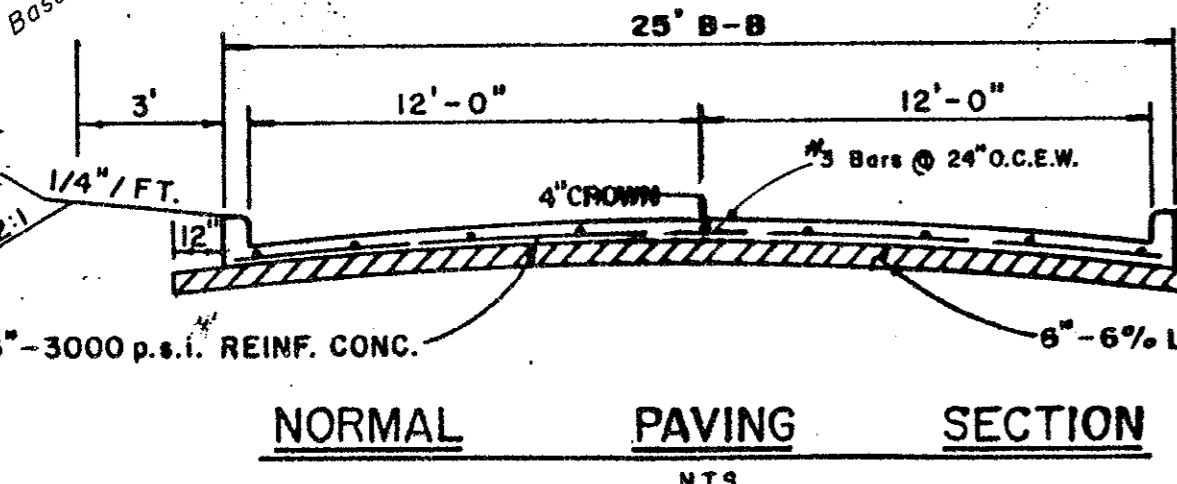
TRINITY CHRISTIAN ACADEMY
 ADDISON, TEXAS
 CLIENT: TOM DANCE ARCHITECT
 8950 N. CENTRAL EXPRESSWAY
 DALLAS, TEXAS 75231

WATER & SANITARY SEWER PLAN
B13-7

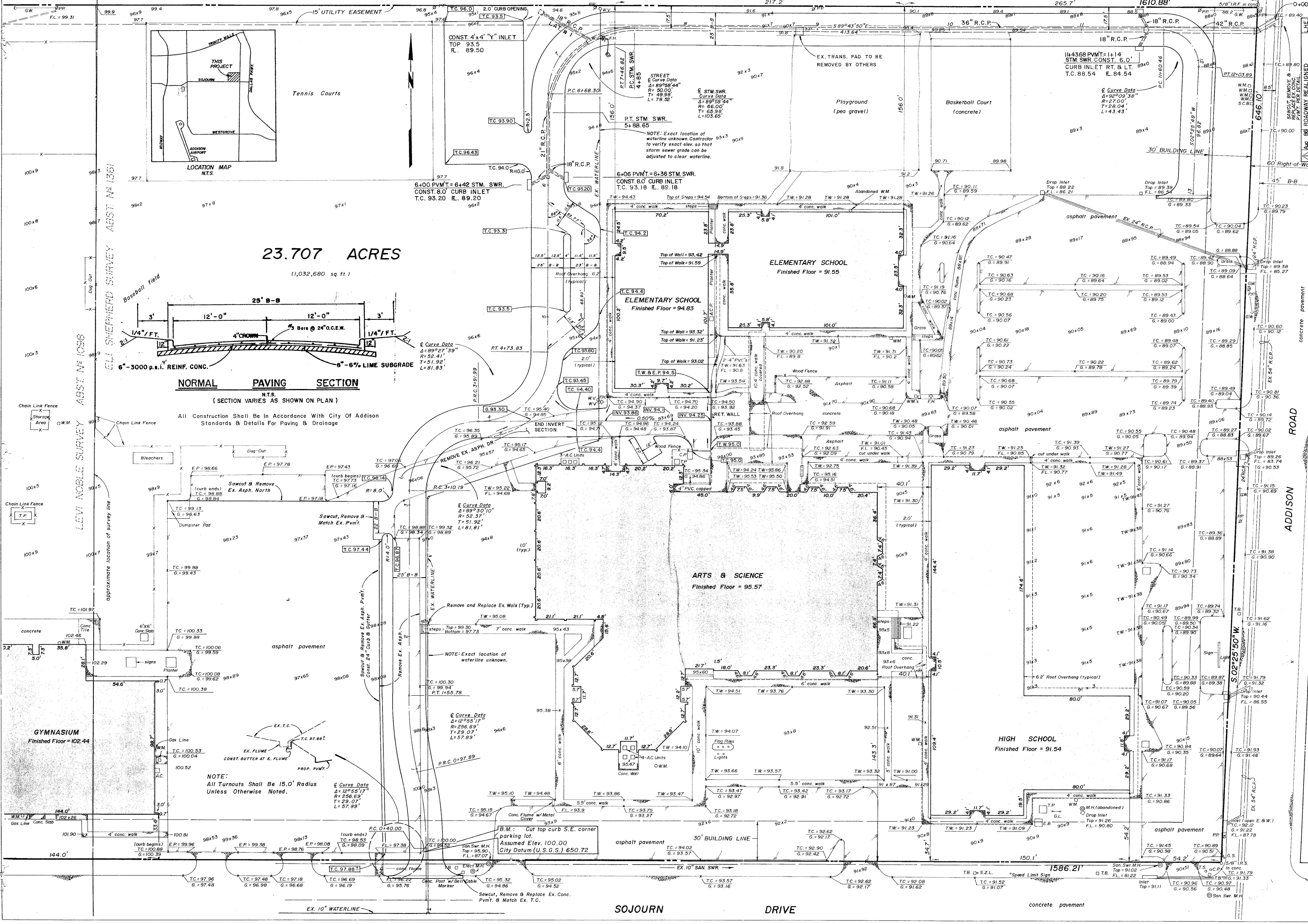
Scale: 1"=40'
 Date: JUNE 1986
 Designed by: N.B.A.
 Drawn by: P.A.W.A.
 Checked by:
 Approved by:
 SHEET
 OF



23.707 ACRES
(1,032,680 sq. ft.)



All Construction Shall Be In Accordance With City Of Addison Standards & Details For Paving & Drainage



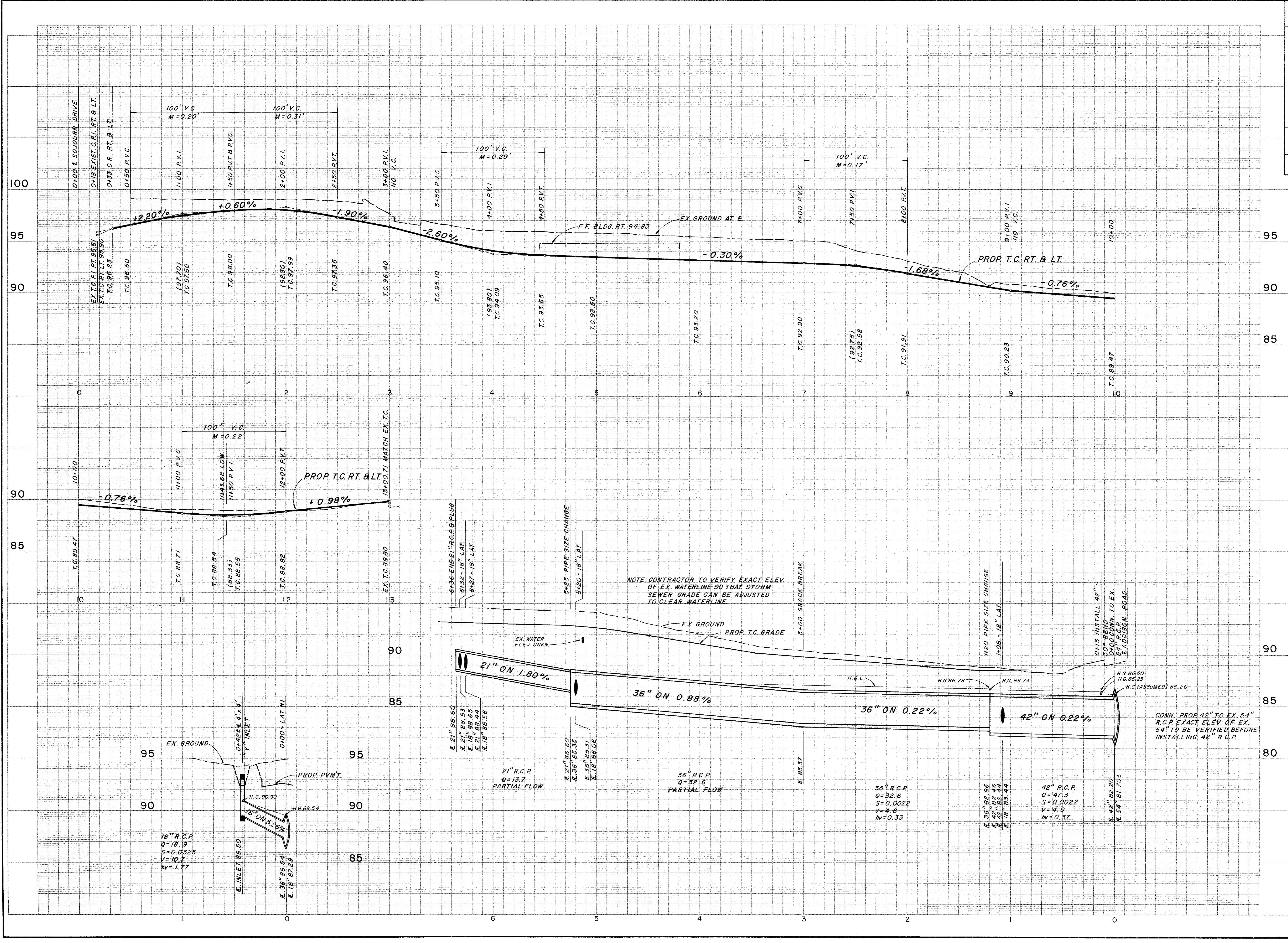
PAWA-Winkelmann & Associates, Inc.
 CIVIL ENGINEERS ARCHITECTS PLANNERS SURVEYORS
 12800 COIT ROAD, SUITE 200, DALLAS, TEXAS 75241
 (214) 981-8000

TRINITY CHRISTIAN ACADEMY
 ADDISON, TEXAS
 CLIENT: TOM DANCE ARCHITECT
 8950 N. CENTRAL EXPRESSWAY
 DALLAS, TEXAS 75231
 (214) 691-1401

PAVING & DRAINAGE PLAN

Scale: 1" = 30'
 Date: JULY 1986
 Designed by: J.R.W.
 Drawn by: T. WHITAKER
 Checked by: N.B.A.
 Approved by:
 Project No. 38203-01

SHEET 1 OF 4



18" R.C.P.
 Q=18.9
 S=0.0325
 V=10.7
 hv=1.77

21" R.C.P.
 Q=13.7
 PARTIAL FLOW

36" R.C.P.
 Q=32.6
 PARTIAL FLOW

36" R.C.P.
 Q=32.6
 S=0.0022
 V=4.6
 hv=0.33

42" R.C.P.
 Q=47.3
 S=0.0022
 V=4.9
 hv=0.37

CONN. PROP. 42" TO EX. 54" R.C.P. EXACT ELEV. OF EX. 54" TO BE VERIFIED BEFORE INSTALLING 42" R.C.P.

NOTE: CONTRACTOR TO VERIFY EXACT ELEV. OF EX. WATERLINE SO THAT STORM SEWER GRADE CAN BE ADJUSTED TO CLEAR WATERLINE.

No.	Date	Revisions	App.



PAWA-Winkelmann & Associates, Inc.
 CIVIL/TRANSPORTATION ENGINEERS • PLANNERS • SURVEYORS

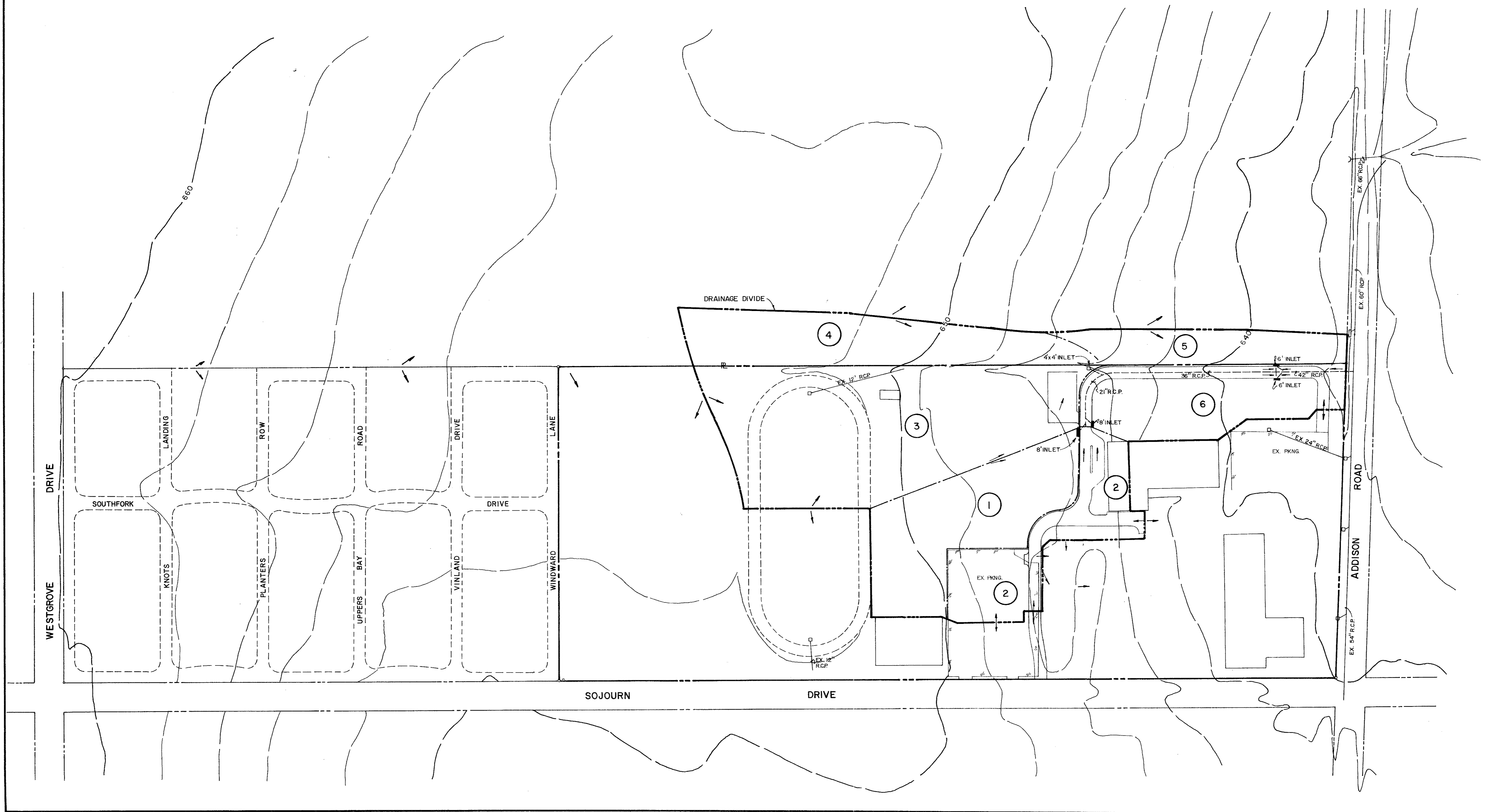
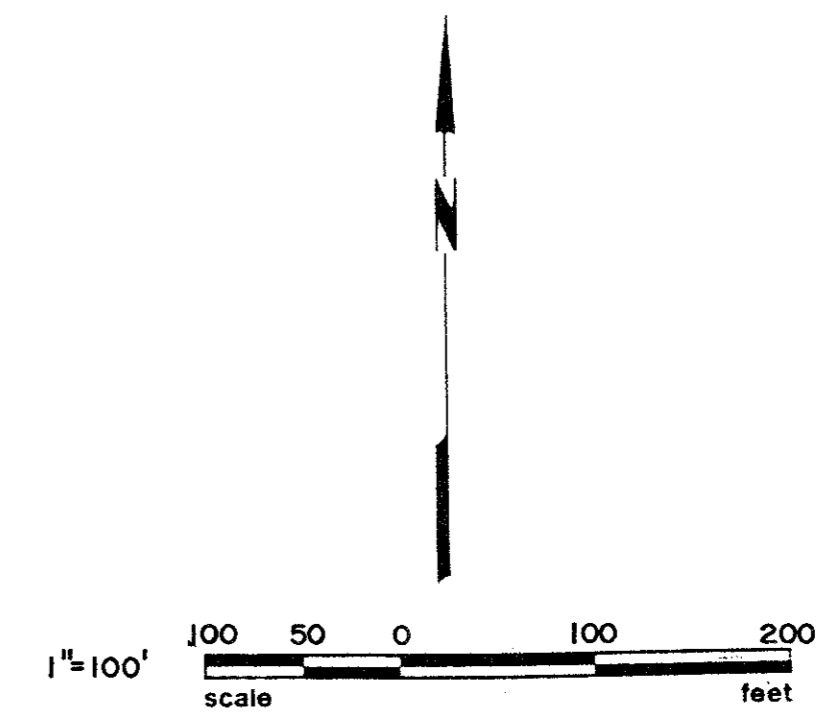
TRINITY CHRISTIAN ACADEMY
 ADDISON, TEXAS
 CLIENT: TOM DANCE ARCHITECT
 8950 N. CENTRAL EXPRESSWAY
 DALLAS, TEXAS 75231
 (214) 691-1401

PAVING & DRAINAGE PROFILE DETAILS

Scale: 1"=40' H_v 1"=4' V Date: Aug 6, 1986
 Designed by: N.B.A.
 Drawn by:
 Checked by:
 Approved by:
 Project No. 38203

DRAINAGE DATA								
NO.	AREA	C	tc	I ₂₅	Q ₂₅	I ₅₀	Q ₅₀	REMARKS
1	1.7	0.35	15 MIN.	7.8	4.6	8.7	5.2	
2	1.5	(wid) 0.75	"	"	6.4	"	7.2	TOTAL Q ₂₅ = 10.050 BY 1.4 2-8' CURB INLETS
3	4.5	0.35	"	"	12.3	"	13.7	
4	1.7	0.50	"	"	6.6	"	7.4	
								TOTAL Q ₂₅ = 18.9, 0.950 BY 2.2 1-4'x4' INLET
5	1.0	0.50	"	"	3.9	"	4.4	
6	1.8	(wid) 0.75	"	"	5.8	"	6.5	
								TOTAL Q ₂₅ = 109 + 36 = 14.5 2-6' CURB INLETS IN LOW

RAINFALL INTENSITIES FROM TP 40
STREET CAPACITY (FULL) = 233 V'S



No.	Date	Revisions	L.H.E.	App.
1	AUG. 86	ROADWAY REALIGNED		

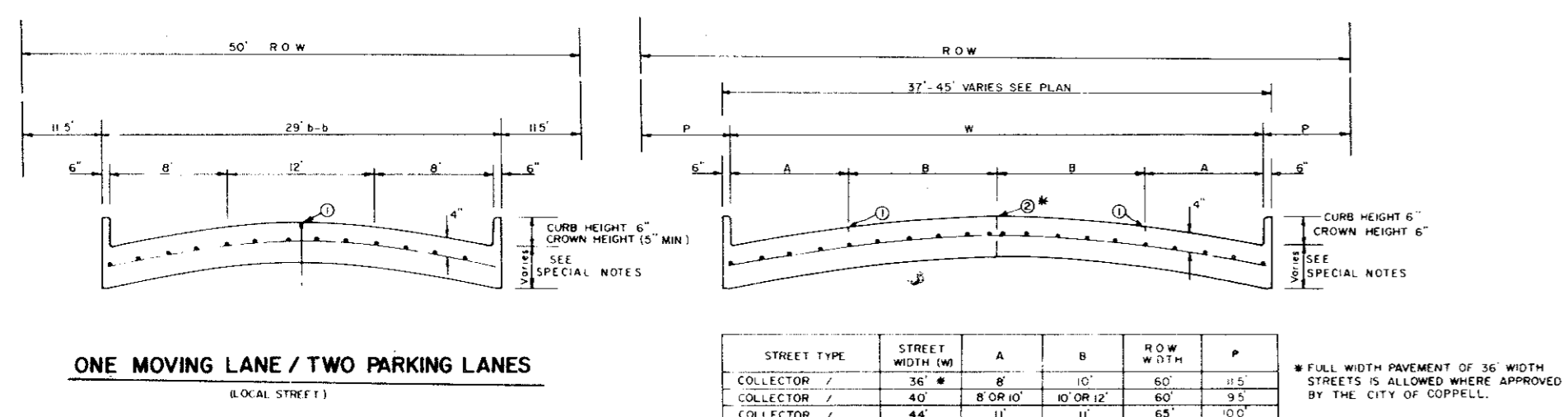


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12860 COIT ROAD, SUITE 200
DALLAS, TX 75251

TRINITY CHRISTIAN ACADEMY
ADDISON, TEXAS
CLIENT: TOM DANCE ARCHITECT
8550 N. CENTRAL EXPRESSWAY
DALLAS, TEXAS 75231 (214) 691-1401

**DRAINAGE AREA
MAP**

Scale: 1"=100'
Date: JUNE 1986
Designed by: N.B.A.
Drawn by: PAWA
Checked by:
Approved by: L.H.E.
Project No. 38203.01



REINFORCED CONCRETE PAVEMENT

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

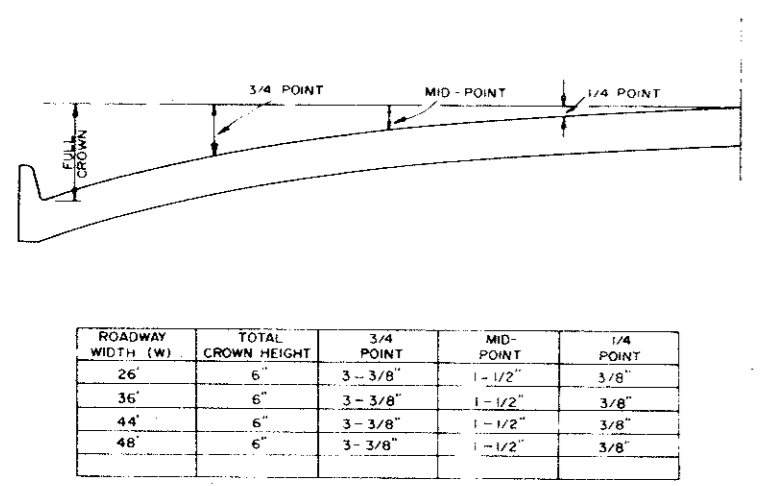


TABLE OF CROWN HEIGHTS AND ORDINATES FOR VARIOUS PARABOLIC SECTIONS

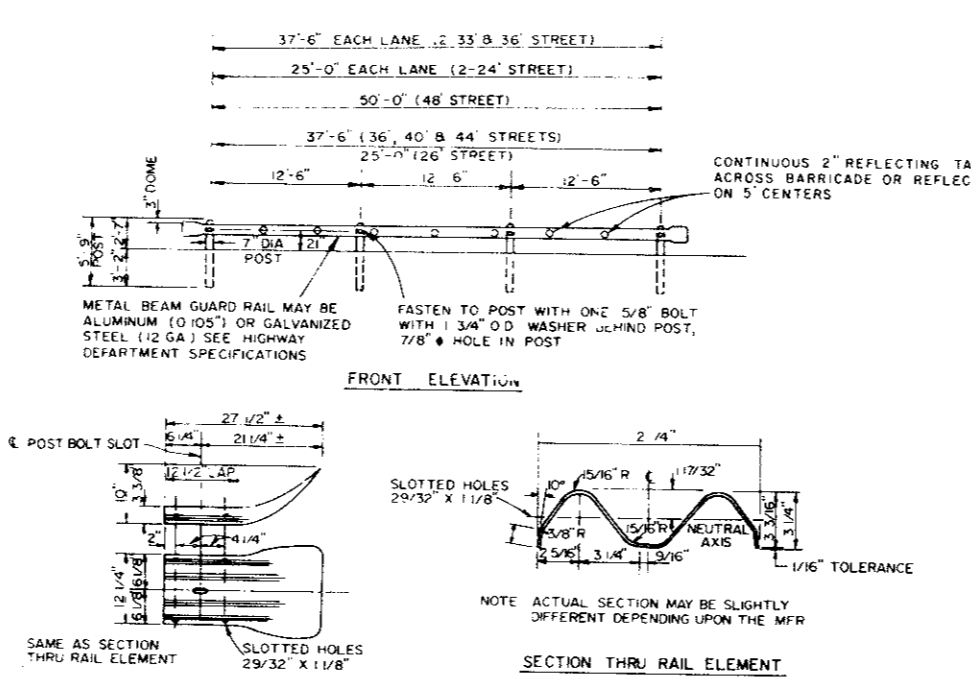
ROADWAY WIDTH (ft)	TOTAL CROWN HEIGHT	3/4 POINT	MID-POINT	1/4 POINT
26	6"	3'-3 3/8"	1'-10 1/2"	3'-8"
36	6"	3'-3 3/8"	1'-10 1/2"	3'-8"
44	6"	3'-3 3/8"	1'-10 1/2"	3'-8"
48	6"	3'-3 3/8"	1'-10 1/2"	3'-8"

GENERAL NOTES

- GENERAL: USUAL PAVEMENT THICKNESS IS AS SHOWN IN SPECIAL NOTES. SUBGRADE DESIGN SHALL CONFORM TO THE TOWN OF ADDISON, TEXAS DEPARTMENT OF ENGINEERING REQUIREMENTS, AND SHALL EXTEND 12" BEYOND CURB, SEE 10.
- REINFORCED CONCRETE PAVEMENT: CONCRETE STRENGTH SHALL BE AS SHOWN IN SPECIAL NOTES.
- ALL CURBS SHALL BE INTEGRAL WITH PAVEMENT.
- DETAIL AND ARRANGEMENT OF PAVEMENT JOINTS, ALL TYPES, SHALL BE AS SHOWN ON SHEET SD-3.
- BAR LAPS SHALL BE THIRTY DIAMETERS.
- SUBGRADE: SUBGRADE UNDER ALL PAVEMENT SHALL BE 6" THICK AND SHALL BE STABILIZED WITH 6 PERCENT BY WEIGHT OF MOISTURE (LINE 10) LIME, AND COMPACTED TO A DENSITY NOT LESS THAN 95 PERCENT AS DETERMINED BY AASHTO T-99. LABORATORY TESTS MAY BE SUBMITTED TO THE ENGINEERING DEPARTMENT FOR APPROVAL. TO LOWER AMOUNT OF LIME REQUIRED.
- BAR CHAIRS ON AN APPROVED DEVICE SHALL BE FURNISHED.

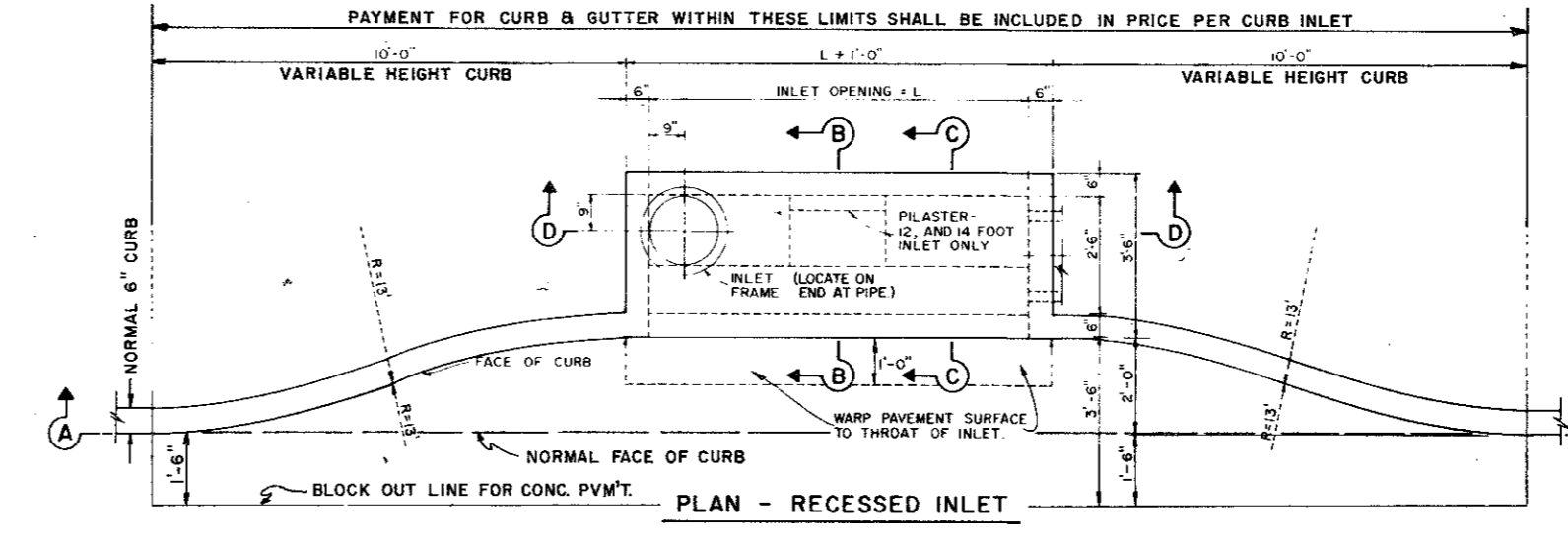
SPECIAL NOTES

PAVEMENT THICKNESS AND STRENGTHS SHALL BE AS FOLLOWS:
 TYPE (L) RETAIL THRU INDUSTRIAL
 B (3000 P.S.I.)
 TYPE (R) RESIDENTIAL
 E (3000 P.S.I.) COMP OR 5" 3600 P.S.I. COMP

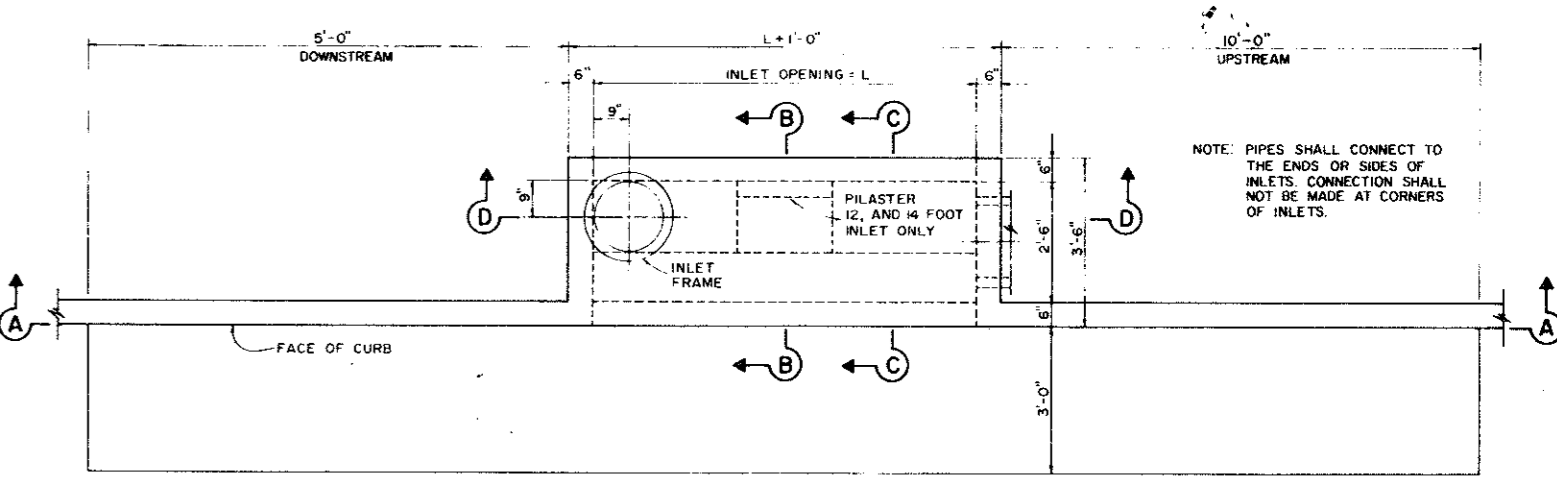
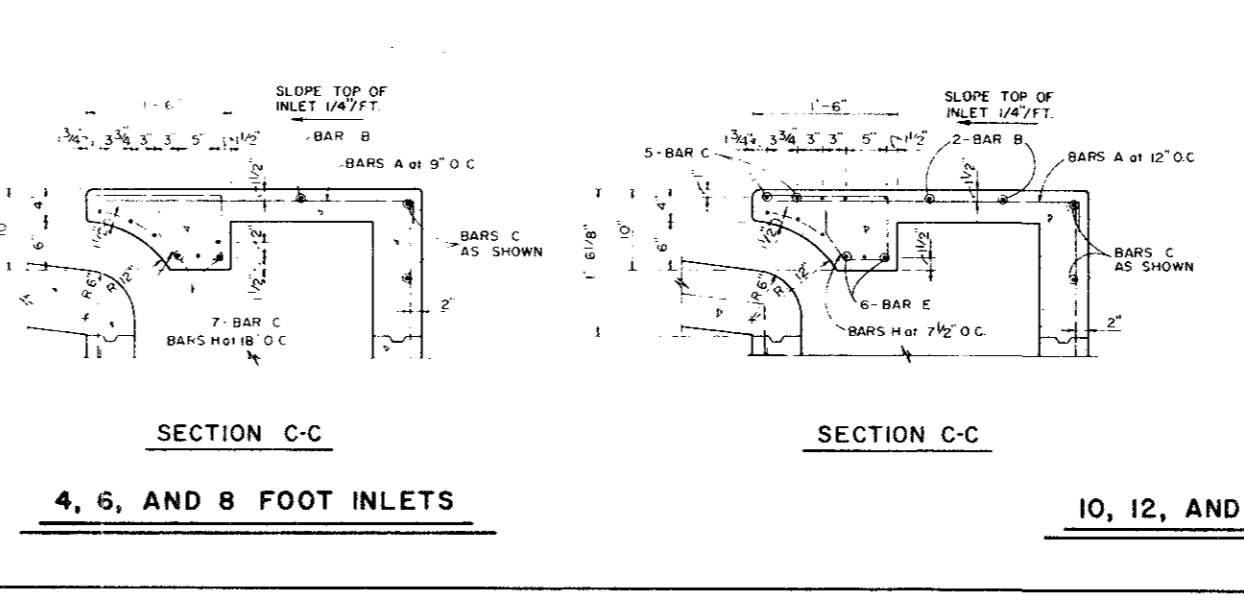
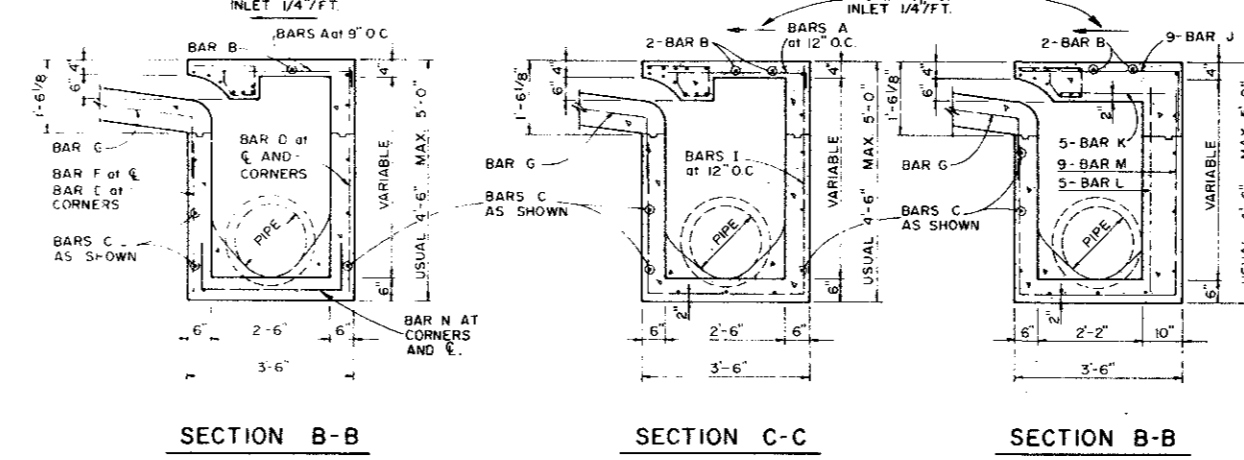


BARRICADE DETAIL

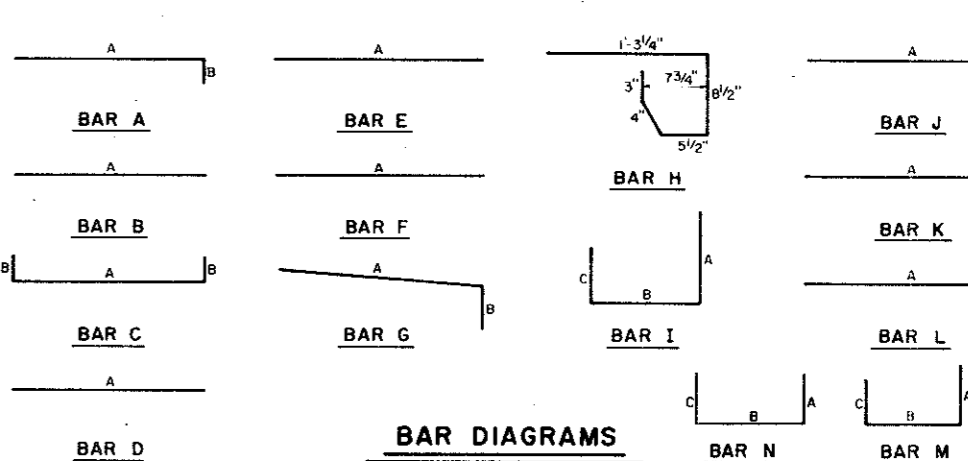
NO.	REVISION	BY	DATE
TOWN OF ADDISON, TEXAS DEPARTMENT OF ENGINEERING			
STANDARD CONSTRUCTION DETAILS PAVING			
PARABOLIC CROWN STREETS			
APPROVED	H. WATKINS, P.E.		
DATE	MARCH 1984	SHEET	SD-2



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



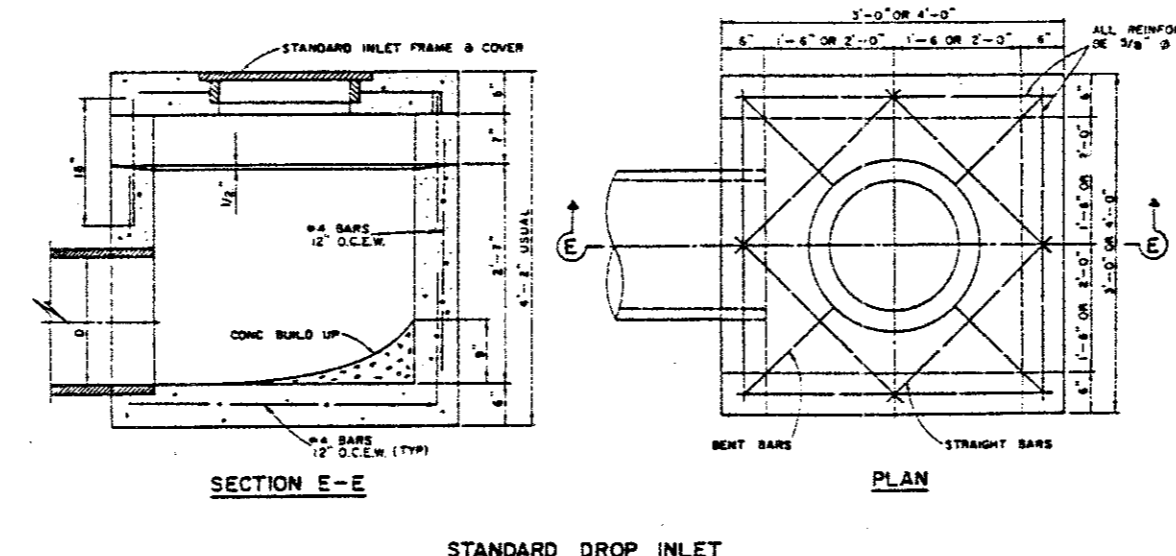
PLAN - STANDARD INLET



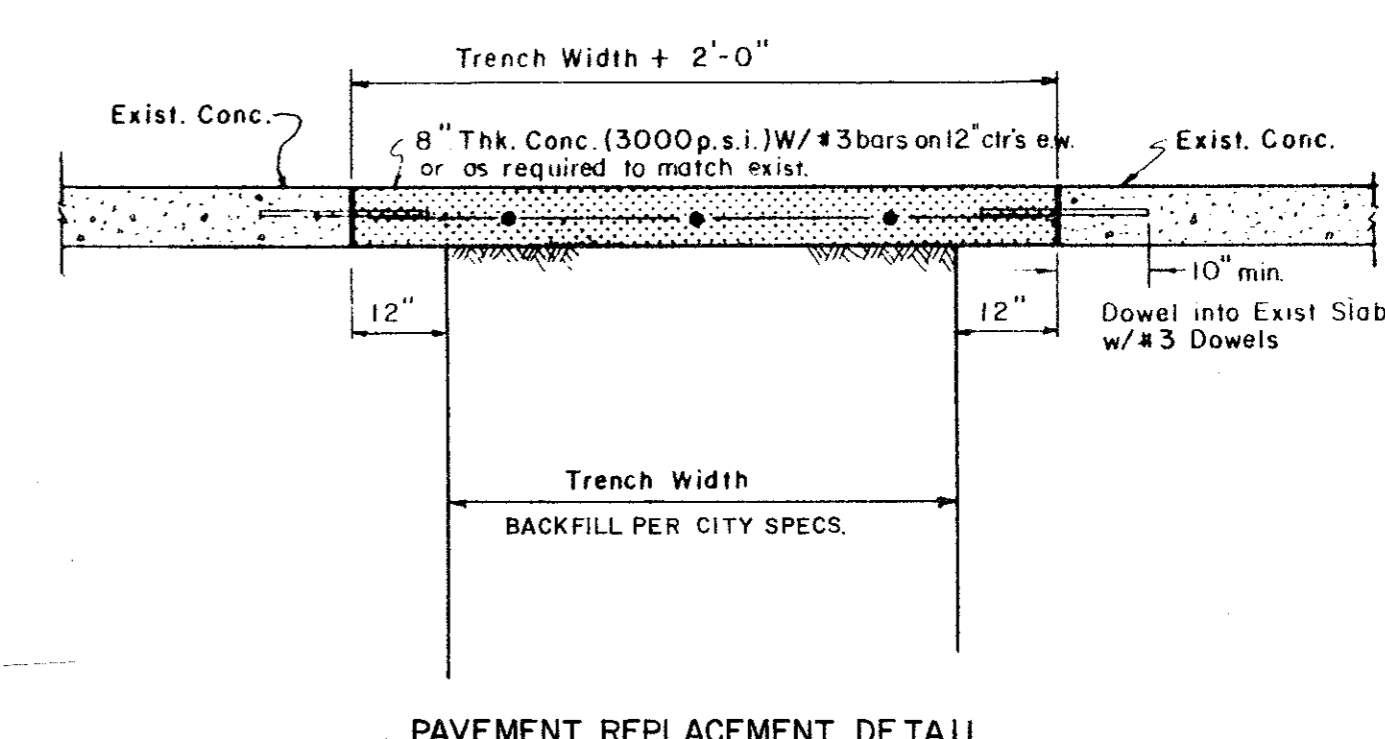
REINFORCING STEEL SCHEDULE

INLET LENGTH (TYPE)	BAR NO.	BAR DIMENSIONS	INLETS
4	A	3/8" x 12'	4'
6	B	3/8" x 12'	6'
8	C	3/8" x 12'	8'
10	D	3/8" x 12'	10'
12	E	3/8" x 12'	12'
14	F	3/8" x 12'	14'

NO.	REVISION	BY	DATE
TOWN OF ADDISON, TEXAS DEPARTMENT OF ENGINEERING			
STANDARD CONSTRUCTION DETAILS STORM DRAINAGE			
CURB INLETS			
APPROVED	H. WATKINS, P.E.		
DATE	MARCH 1984	SHEET	SD-9



STANDARD DROP INLET



PAVEMENT REPLACEMENT DETAIL

TOWN OF ADDISON, TEXAS						
CONSTRUCTION DETAILS						
PAVING & CURB INLETS						
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
						4/4