MC 5-1

JS-71(MOD)

GF (TD) 70E (MOD)

BC (1) THEU (6) 72

CHILTS APPED

CPCD-71 (REV.) (MOD.)

GF (SU)-70

35A, 40A, 41A, 42A, 43A, 47A, 50A,

51A, 52A, 58A, 54A, 55A

36

37- 38

35 - 50

60-6

61-35

36

67

VUNE 21

LETTING DATE

DESCRIPTION SHEET NO. TITLE SHEET PROJECT LAYOUT 2-3 TYPICAL SECTIONS 4-5 SPECIFICATION DATA 69 MAINTENANCE -GREEMENT 10 ESTIMATE AND QUANTITY 11 -12 SUMMARY SHEETS 13 14 PLAN-FFOFILE SHEETS 15-17 CONDUIT LAYOUT 18 MISCELLANEOUS DETAIL SHEET 19 DRAINAGE AREA MAP 20 INLET AND STORM SEWER COMPUTATIONS 21 DRAINAGE LAYOUT THEETS 22-25 CROSS SECTIONS AT CULVERT CITES 26-27 MANHOLE DETAILS -28 INLET DETAILS LENGTHENING DETAILS - MBC FVCW-SI (MOD) 33 MCW-FI-30° 34 MC - 30° 35 € 35A

RETAINING WALL DETAILS

BALLASTED DECK DETAILS

UNDERDRAIN LAYOUT \$ 5PRING DRAINAGE

G.C. & S.F. FAILROAD UNDERFASS DETAILS SHOOFFLY LAYOUT & INTERIOR BENTS

STATE OF TEXAS
STATE HIGHWAY DEPARTMENT

PLAN OF PROPOSED BY STATE HIGHWAY IMPROVEMENT

FEDERAL AID PROJECT.

UG-1089(37)

DALLAS COUNTY

FROM: SOUTH OF G.C.& S.F. RAILROAD TO: NORTH OF G.C.& S.F. RAILROAD

SCALE: PROFIE: IN. HORZ. 40 FT, IN. VERT. 5 FT.

NET LENGTH OF PROJECT 1200.00 FT. 227 MI.

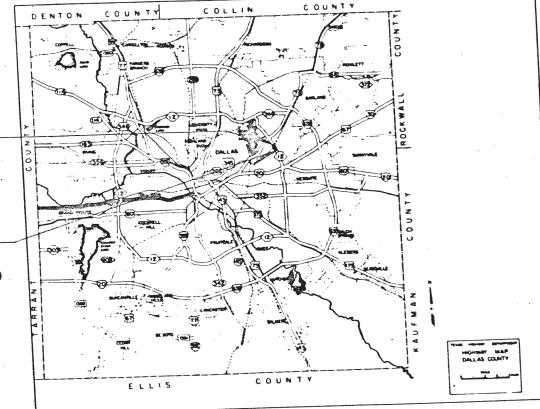
TYPE: GRADING, STORM SEWERS, RETAINING WALLS, PAILROAD UNDERPASS STRUCTURE, AND CONCRETE PAVEMENT.

STA. 713+00 End Project Control 581-1-52 Project UG-1089(37)

STA. 701400

Begin Project
Control 581-1-52
Project UG-1089(37)

DECIPICATIONS ADOPTED BY THE STATE HIGHWAY DEPARTMENT
OF TEXAS JANUARY 5, 1972 AND SPECIFICATION ITEMS LISTED
AND DATED AS FOLLOWS SHALL BUVERN ON THIS
PROJECT. REGUIRED CONTRACT PROVISIONS, ALL
FEDLE AL-AID CONSTRUCTION CONTRACTS,
(FORM PR-1273, MAY, 1971).



EQUATIONS: NONE EXCEPTIONS: NONE

FINAL PLANS

736363

DATE WORK BEGAN: AUGUST 21, 1972 DATE WORK COMPLETED: APPIL 26, 1974

FIELD CHANGE NO.1

CHANGE ELEVATION TOP ABUTMENTS AND PIERS
FIELD CHANGE NO. 2 SUPPLEMENTAL AGREEMENT NO. 1
BACKFILL ABUTMENT WITH STABILIZED MATERIAL

DELIVERY POINTS FOR MATERIALS: CALLAS, ALL RAILROADS

Note: The Contractor shall make his own investigation and arrangements for trackage facilities.

The Contractor shall provide and erect barricades and warning signs in accordance with BC(1)72,BC(2)72,BC(3)72,BC(4)72,BC(5)72,BC(6)72, at points indicated and at other points as directed by the Engineer.

Construction Identification Signs for Federal Aid Projects shall be erected in accordance with CIS-74.

Barricades Class I(C) with signs G20-6, W20-1C, W20-1B, W20-1A, G20-1, G20-2, C-2, and Riv-b will be required at each end of the project.

DALLAS COUNTY.

APPROVED: Mr. 4 1971

DIRECTOR OF PUBLIC WORKS

CITY OF DALLAS

FOR APPROVAL

DIRECTOR OF PUBLIC WORKS

1/20/72

APPROVED ASSIL 22 1971

ASST CITY MANAGER

TEXAS HIGHWAY DEPARTMENT

WP Wacher
SUP RESIDENT ENGINEER

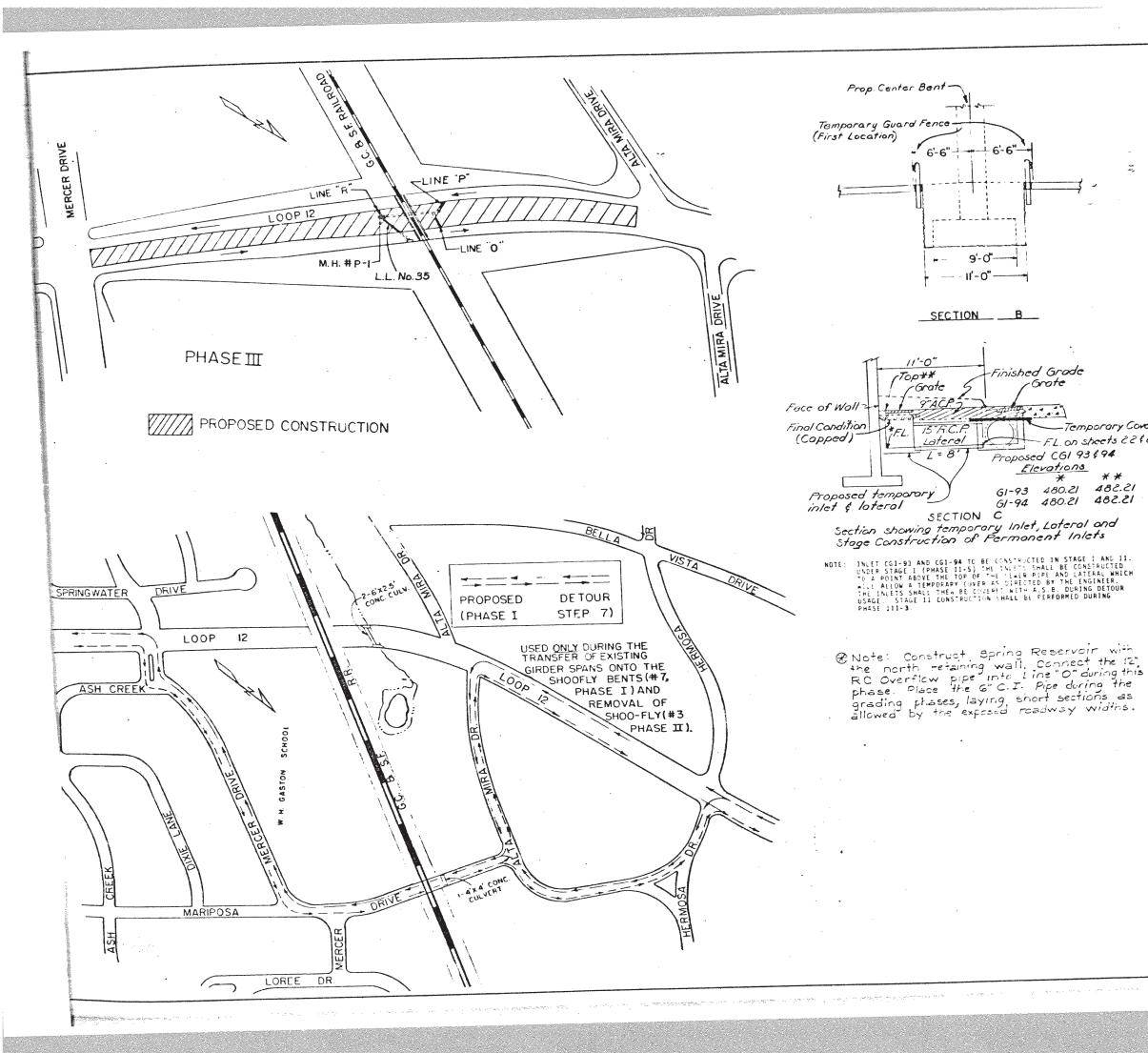
DISTRICT DESIGN ENGINEER

/	-
100/1	
SUFV RESIDENT ELEMENT APPROVI	ED:
SUFV RESIDENT ELLANGT	me W

4- 9 1071

U.S. DEPARTMENT OF TRANSPORTATION FELERAL HIGHWAYADIVAL STE

1 2 Rolling R. Z. Lewis Rispert Co



SEQUENCE OF CONSTRUCTION

PHASE 1.

6-6"

9'-0"

11'-0"

SECTION B

Grate

Lateral

SECTION

Finished Grade

Proposed CGI 93 \$ 94

Elevations

61-94 480.21

61-93 480.21 482.21

-Temporary Cover

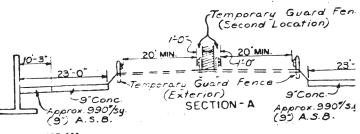
482.21

F.L. on sheets 22123

- 1. CONSTRUCT TEMPORARY DRAINAGE STRUCTURE RIGHT FROM STA. 707+50 TO STA. 708+80, WHICH INCLUDES JACKING OR BORING UNDER EXISTING RAIL AND CONSTRUCTION OF TEMPORARY SUMP HOLE.
- 2. CONSTRUCT TEMPORARY DRAINAGE PIPE UNDER SHOO-FLY AND SHOO-FLY EMB
- 3. EXCAVATE AND INSTALL PANELS NOS. 19R AND 31L.
- BACKFILL AGAINST 19R AND 31L TO DESIRED SLOPE. INSTALL TEMPORARY FENCE ADJACENT TO MEDIAN (SECTION B).
- 5. CONSTRUCT SHOO-FLY BENTS NOS. 1 THRU 5. COMPLETE SHOO-FLY TREST!
- 6. LAY BALLAST AND TRACKS ON SHOO-FLY WHERE POSSIBLE (R. R. FORCES)
- DURING SUNDAY DAYLIGHT HOURS, ROUTE TRAFFIC AROUND PROJECT (VIA ALTA MIRA DRIVE AND MERCER DRIVE). MOVE EXISTING GIRDER SPANS A TRACK FROM EXISTING STRUCTURE ONTO SHOO-FLY BENTS AND COMPLETE SHOO-FLY STRUCTURE. UPON COMPLETION OF RELOCATING GIRDER SPANS. ROUTE TRAFFIC BACK TO LOOP 12.
 - 8. REMOVE EXISTING ABUTMENTS AND CENTER PIER.
 - 9. EXCAVATE OUT AND INSTALL NEW ABUTMENTS AND PANELS NOS. 17R-AND
 - 10. INSTALL CENTER BENT NO. 2 OF THE PROPOSED NEW RAILROAD STRUCTUR
- NOTE: DURING THE CONSTRUCTION OF BOTH CENTER BENTS (SHOO-FLY AND PERM THE CONTRACTOR WILL BE PERMITTED TO CLOSE ONLY ONE EXISTING TRA LANE DURING THE HOURS BETWEEN 9:00 A. M. AND 4:00 P. M.

PHASE 11.

- 1. COMPLETE CONSTRUCTION OF NEW STRUCTURE.
- 2. SWITCH TRAIN TRAFFIC ONTO NEW STRUCTURE.
- 3. DURING SUNDAY DAYLIGHT HOURS, ROUTE TRAFFIC AROUND PROJECT (VI. ALTA MIRA DRIVE AND MERCER DRIVE) AND PENOVE SHOO-FLY GIRDER: COMPLETION OF GIRDER REMOVAL, ROUTE TRAFFIC BACK TO LOOP 12.
- 4. REPLACE MEDIAN PAVEMENT AND RELOCATE TEMPORARY GUARD FENCE (SECTION A).
- 5. CONSTRUCT STORM SEWER LINE P. CG1-91. LL #39. TEMPORARY AND ST STRUCTION OF PERMANENT INLET AT CG1-94 LOCATION (SECT. C). CC LINE R WHERE POSSIBLE AND UNDERDRAINS UNDER OUTER SOUTHBOUND L TEMPORARY A.S.B. WIDENING. CONSTRUCT LINE O. CG1-78. LL #35. RARY AND STAGE CONSTRUCTION OF PERMANENT INLET AT CGI-93 LOCA (SECT. C), STAGE I OF CG1-76, DI #77, LINE Q, DI-92 AND ALL PI UNDERDRAINS UNDER OUTER NORTHBOUND LANE AND TEMPORARY WIDENIN
- 6. LENGTHEN CULVERT AT STA. 710+12 LT AND RT.
- 7. € CONSTRUCT REMAINING RETAINING WALLS AND RIPRAP FLUME.
- 8. CONSTRUCT TEMPORARY EXTERIOR GUARD FENCE AS SHOWN ON SECTION COMPLETE DRAINAGE INSTALLATION, GRADING AND PAVING OF OUTSIDE BOTH DIRECTIONS WITH 9" CONC PAVEMENT (31' TO 43'-9" LT. AND APPROXIMATELY 990#/S.Y. A. S. B. (PCD. AREA - 1ST COURSE) AND TRAFFIC ONTO THESE LANES.
- 9. REMOVE AND REPLACE EXTERIOR GUARD FENCE TO FINAL LOCATION.

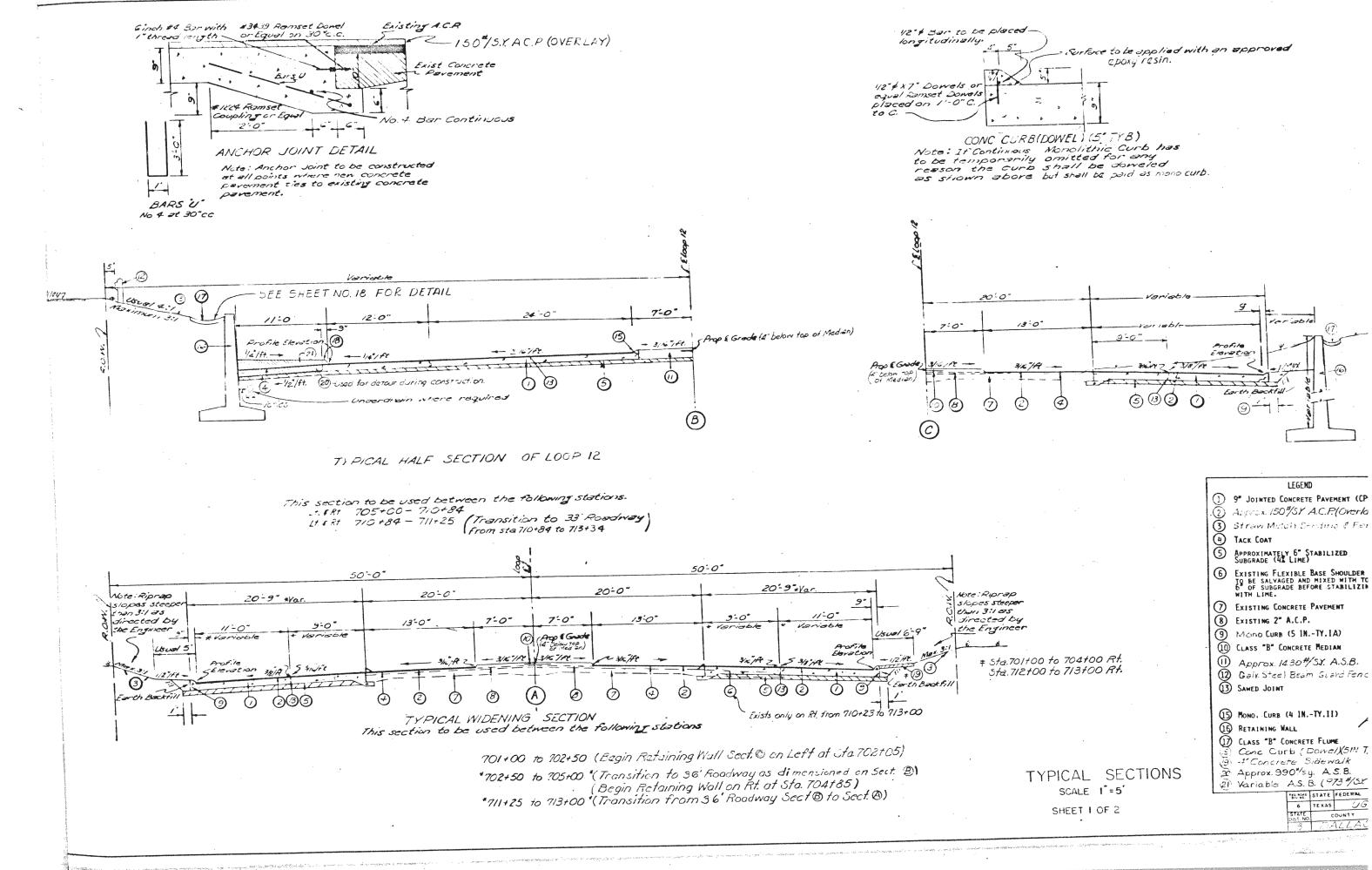


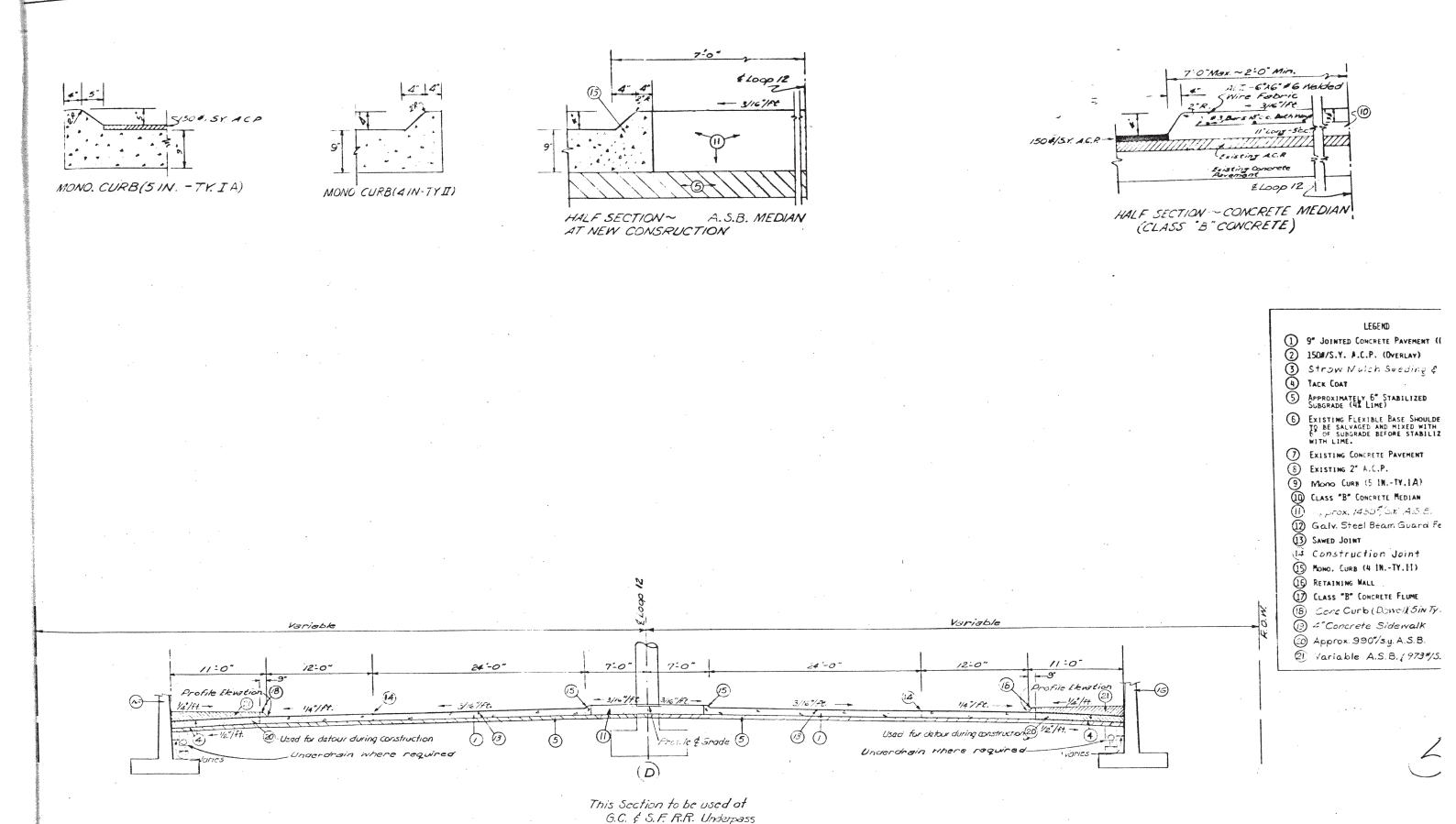
- 1. COMPLETE STORM SEWER CONNECTIONS (LINES O. P. R. MH #P-1, L UNDERDRAINS.
- 2.8 COMPLETE GRADING AND PAVING OF INSIDE TWO LAMES AND MEDIAN.
- 3. ROUTE TRAFFIC ONTO INSIDE LANES. REMOVE TEMPORARY DRAINAGE COMPLETE CURB AND PEDESTRIAN AREA.

PROJECT LAYOUT SHEET

SHEET 2 of 2

TAL MOAL	STATE FEDERAL		
6	TEXAS	1200	
STATE DIST NO	COUNTY LLAS		
1.5			



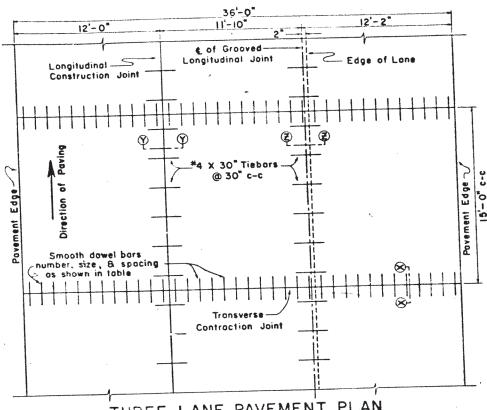


STATE COUNTY CONTY

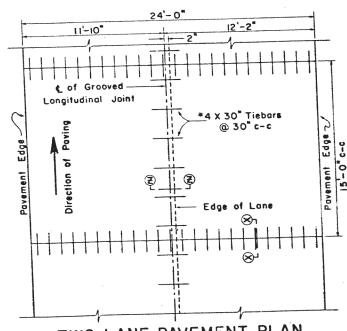
TYPICAL SECTIONS

SCALE 1"=5"

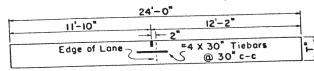
SHEET 2 OF 2



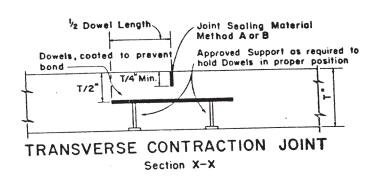
THREE LANE PAVEMENT PLAN (12 ft. 8, 24 ft. Placement)*

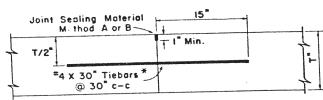


TWO LANE PAVEMENT PLAN



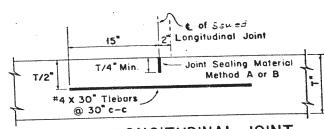
TYPICAL SECTION (24 ft. Placement)





LONGITUDINAL CONSTRUCTION JOINT Section Y-Y

*WITH THE APPROVAL OF THE ENGINEER, MULTIPLEPIECE TEBARS (THREADED COUPLING OR OTHER ADEQUATE DEVICE) MAY BE USED TO FACILITATE CONSTRUCTION PROVIDED THE SYSTEM DEVILOPS A FORCE EQUAL TO 1 1/2 TIMES THE MINIMUM FORCE OF THE TEBAR SHOWN. THE SPACINGS: FOR THE SYSTEM SHALL BE LESS THAN OR EQUAL TO THE SPACING ALLOWED FOR BARS OF SIMILAR YIELD STRENGTH.



SAVED LONGITUDINAL JOINT Section Z-Z

Lone widths ore for illustrative purposes only and should not be used if in conflict with typical cross sections shown elsewhere in

GENERAL NOTES

- NO EXPANSION JOINTS WILL BE USED EXCEPT AT STRUCTURE ENDS OR FIXED OBJECTS AS SHOWN ELSE-
- FOR FURTHER INFORMATION REGARDING THE PLACEMENT OF CONCRETE AND LOAD TRANSFER DEVICES REFER TO THE GOVERNING SPECIFICATIONS FOR "CONCRETE PAVEMENT".
- UETAILS AS TO PAVEMENT WIDTH, PAVEMENT THICKNESS, AND THE CROWN CROSS-SLOPE SHALL BE AS SHOWN ELSEWHERE IN THE PLANS.
- JOINT GROOVE AND SEAL DETAILS SHALL BE AS SHOWN ELSEWHERE IN THE PLANS.
- TIEBARS SHALL BE SECURED PARALLEL TO THE PAVEMENT SURFACE AND PERPENDICULAR TO THE CENTER-LINEBY:

 - (d) USE OF BAR CHAIRS
 (b) ACCURATELY PLACED IN POSITION ON THE SCREEDED CONCRETE BY MEANS OF AN APPROVED TEMPLATE AND FORCED TO THE PROPER POSITION WITH A SUITABLE TOOL; OR
 (c) BY ANY OTHER MEANS WHICH, PRIOR TO ITS USE, HAS BEEN APPROVED BY THE ENGINEER.
- DOWEL BARS SHALL BE SECURED PARALLEL TO THE PAVEMENT SURFACE AND CENTERLINE BY A DOWEL
- WHEN WORK IS STOPPED LUE TO BREAKDOWN OR OTHER CAUSE, CONCRETE SHALL BE REMOVED BEYOND LAST CONTRACTION JOINT IN PLACE AND A HEADER INSTALLED.
- WHERE A MONOLITHIC CURB IS SPECIFIED, THE JOINT IN THE CURB SHALL COINCIDE WITH PAVEMENT JOINTS AND MAY BE FORMED BY ANY MEANS WHICH, PRIOR TO ITS USE, HAS BEEN APPROVED BY THE
- CONSTRUCTION JOINTS MAY BE FORMED BY USE OF METAL OR WOOD FORMS EQUAL IN DEPTH TO THE NOMINAL DEPTH OF THE PAVEMENT, OR BY OTHER MEANS WHICH HAVE BEEN APPROVED BY THE ENGINEER PRIOR TO THEIR USE.
- 10. LONGITUDINAL AND TRANSVERSE STEEL SPACING SHALL NOT VARY MORE THAN ONE TWELTTH OF THE SPACING SHOWN HEREON.
- 11. THE TIEBAR SPACINGS SHOWN ARE FOR ASTM DESIGNATIONS: A-615, OR A-616, GRADE 60, TIEBARS, WHICH SHALL NOT BE BENT. IF TIEBARS ARE TO BE BENT, THEY SHALL BE STEEL CONFORMING TO ASTM DESIGNATION: A-615, GRADE 40, WITH A CENTER TO CENTER
- 12. SEE RC (CPCR)-71/FOR STEEL PLACING REQUIREMENTS IN THE AREA OF CONFLUENCE AT RAMP TERMINALS.

DEST!! OF	DOWELS (SMOOTH BARS)				
DEPTH OF L PAVEMENT (INCHES)	SIZE AND LENGTH	AVERAGE SPACING (INCHES)	WEIGHT PER FOOT OF JOINT (LBS)		
8	ı" x 18"	12	4.01		
9	I1 X 20"	12	5.63		
10	1 × 22"	12	7.65		
11	13 × 24"	12	10.10		
1 1	1 18 11	1	. /		

TEXAS HIGHWAY DEPARTMENT

CONCRETE PAVEMENT DETAILS CONTRACTION DESIGN CPCD-71 (Rev.) (MOD.)

DN:	DRAWING	UATE	DIV MO 11	ATE	EDERAL PROJECT MR.
CK DN:	Original	Feb 1969		145	16 193913
CK. DW			STATE :	Counts	CONT. SECT
TR:			18	57753	1581/
1 CR. 1 R.					