STATE OF TEXAS

STATE DEPARTMENT OF HIGHWAYS AND PUBLIC TRANSPORTATION

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RUNOFF AND INLET COMPUTATIONS
STORM SEWER COMPUTATIONS

LATERAL COMPUTATIONS
ATESF RR OVERPASS, 6-D (MOD)
COMBINATION RAIL TYPE C201(MOD)

Prestressed Congrete Box Banns Summary of Alternate Inlete DE

BC(1)-82 THRU BC(7)-82 CPCD-80(1)

TB(BMGF)-86 TRAFFIC RAIL TYPE T6

GF(TD) -86 BED(OWT) -84

BAS-75 CBR(PAP) -86

MC10-3

MC8-3 MC7-2 SC-NA

CHI

OMITTED

CULVERT LAYOUTS

MCW - P - 15° (meb), MCW P (meb), MCW - P - 40° (meb), PW - M (meb) +

CULVERT MOUNTING FOR TO TRAFFIC RAIL (MOD)

PAVEMENT MARKING SHEETS

STANDARDS

BEGIN PROJECT

STA 1315+44

END PROJECT

CONTROL 91-5-25 STA 1543+00

CONTROL 91-5-25

Spl Healwill Detail

COLLIN COUNTY

DISTRICT 18

SPECIFICATION DATA SHEETS
SUMMARY SHEETS

GRADING CONTOURS
MISCELLANEOUS DETAILS

DRAINAGE AREA MAP DRAINAGE SHEETS

LATERAL DETAILS

PLANS OF PROPOSED STATE HIGHWAY IMPROVEMENT

FEDERAL AID PROJECT MA-M S009(3)

SH 289

COLLIN COUNTY

FROM: CARPENTER ROAD TO: PROPOSED S.H. 190

GRAYSON CO.

RHEA MILLS

COLLIN

DALLAS CO.

NET LENGTH OF PROJECT: 22,767.81 FT. = 4.311 MI.

ALDASTA

PRINCETON

CULLEGKA

ROCKWALL CO.

TYPE: GRADING. STRUCTURES. STORM SEWERS. CONCRETE PAVING AND PAVEMENT MARKINGS

DESIGN SPEED = .5 MPH

NOTES! THE CONTRACTOR SHALL MAKE HIS OWN INVESTIGATION AND ARRANGEMENTS FOR RAIL DELIVERY POINTS AND TRACKAGE FACILITIES.

> THE CONTRACTOR SHALL PROVIDE AND ERECT BARRICADES AND WARNING SIGNS IN ACCORDANCE WITH BC-(1) THRU EC-(7)-1982 AT POINTS INDICATED AND AT OTHER POINTS AS DIRECTED BY THE ENGINEER.

BRIDGE

ROADWAY 22,364.6/FT. = 4.235 MI. 103.20FT.= 0.076ML

TOTAL 22.767.81 FT. = 4.311 MI.

FINAL PLANS

LETTING DATE LATE WORK BEGAN 5-11-87 DATE OF CONPLETION 1-23-89 DATE OF ACCEPTANCE 1-26-89

FIELD CHANGE NO. 1: CONSISTED OF SUBSTITUTING VERTICAL PANELS FOR CONCRETE TRAFFIC EMERIERS ALONG THE FURES OF NEW CONCRETE PAVENENT IN CONSTRUCTION STAGES IT AND III.

FIELD CHANGE NC. 2: CONSISTED OF CONSTRUCTION OF ONE INVET (COMITY) (TYC) (1-GARTE) 68 FT X + OF CENTERLINE STA 1472+29.

SUPPLEMENTAL AGREEMENT NO. 1: PROVIDED FOR A UNIT PRICE OF SCC.OL ON FIELD CHANGE NO 2.



CITY OF PLAND

STATE DEPARTMENT OF HIGHWAYS AND PUBLIC TRANSPORTATION

4/30,86

Thing Demelieres BRIDGE FNGINEER 5-14-85 Same I Della

CHIEF ENGINEER HIGHWAY DESIGN

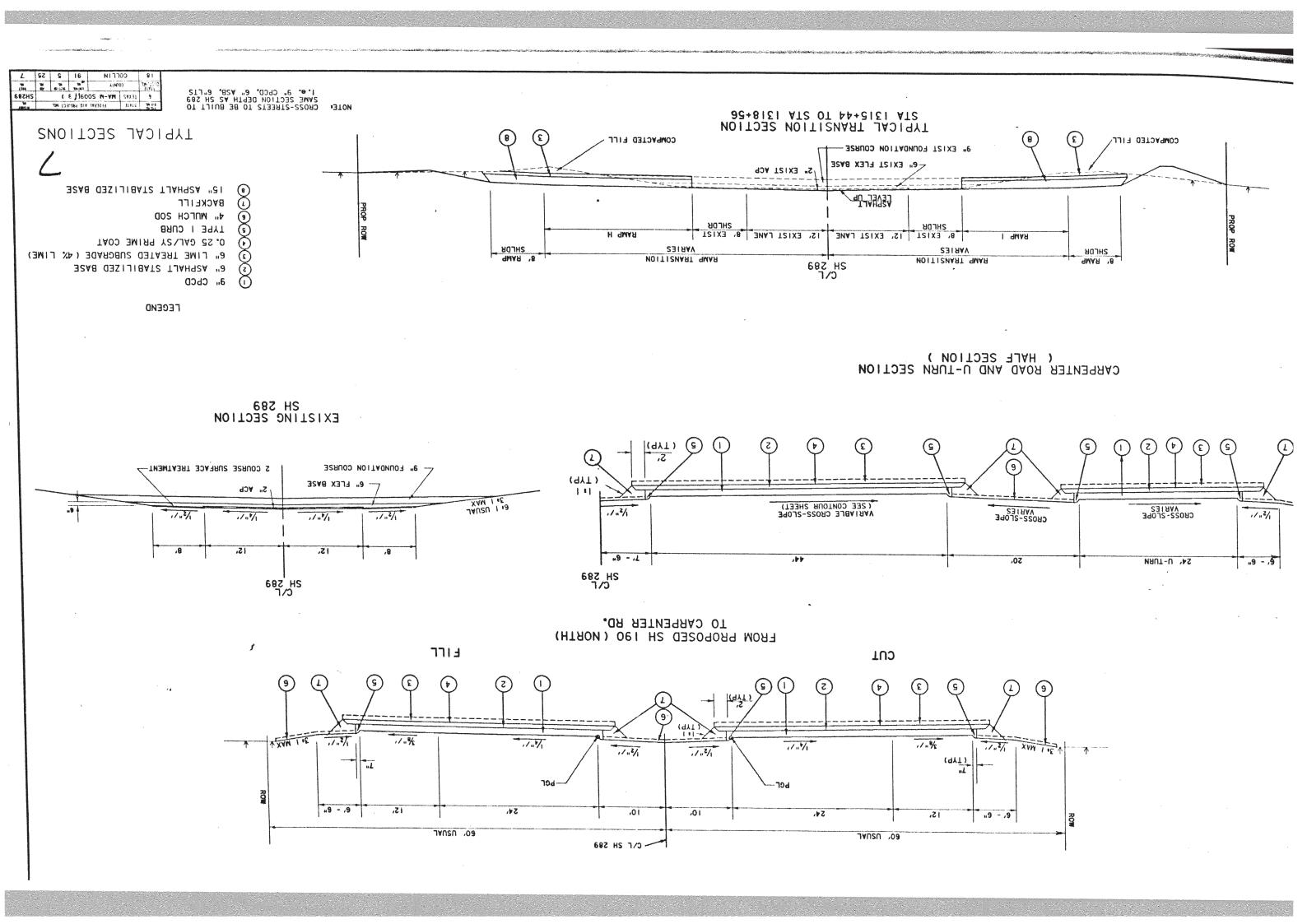
U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION

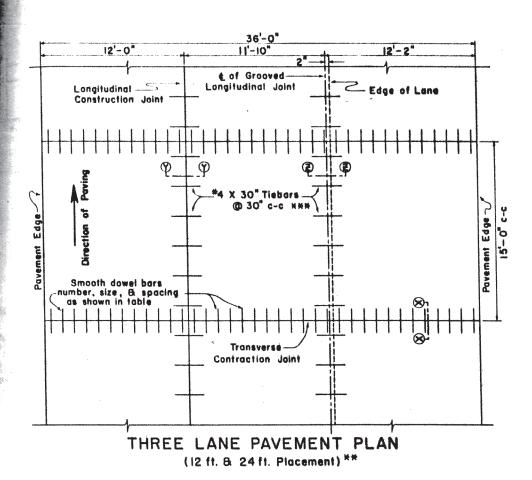
DIVISION ADMINISTRATOR

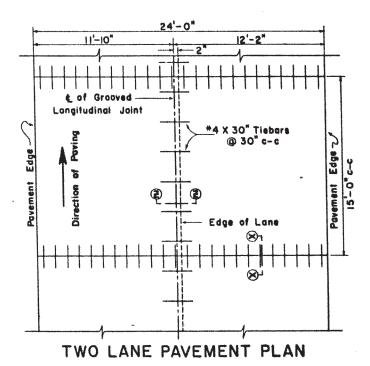
EXCEPTION: NONE EQUATIONS.

STA. 1487+48.67 BK= STA. 1487+38.70 FWD=+9.97' STA. 1541+68.00 BK= STA. 1541+66.16 FWD=+1.84'

SPECIFICATIONS ADOPTED BY THE STATE DEPARTMENT OF HIGHWAYS AND PUBLIC TRANSPORTATION OF TEXAS, SEPTEMBER 1, 1982, AND SPECIFICATION LIEMS LISTED AND DATED AS FOLLOWS, SHALL COVERN ON THIS PROJECT: REQUIRED CONTRACT PROVISIONS, ALL FEDERAL-AID CONSTRUCTION CONTRACTS (FORM PR-1273, SEPTEMBER, 1975).



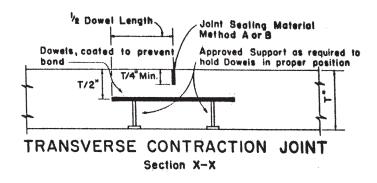


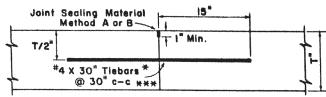




TYPICAL SECTION (24 ft. Placement) **

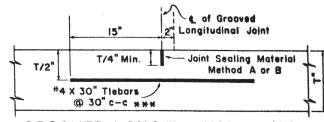
At locations where the pavement width is greater than 40 feet but less than 60 feet the fie bar spacing shall be 24" center to center. At locations where pavement width is greater than 60 feet #5 tie bars 36" long shall be 24" center to center.





LONGITUDINAL CONSTRUCTION JOINT Section Y-Y

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



GROOVED LONGITUDINAL JOINT Section Z-Z

* Lane widths are for illustrative purposes only and should not be used if in conflict with typical cross sections shown elsewhere in

GENERAL NOTES

- 1. NO EXPANSION JOINTS WILL BE USED EXCEPT AT STRUCTURE ENDS OR FIXED OBJECTS AS SHOWN ELSE-WHERE IN THE PLANS.
- FOR FURTHER INFORMATION REGARDING THE PLACEMENT OF CONCRETE AND LOAD TRANSFER DEVICES REFER TO THE GOVERNING SPECIFICATIONS FOR "CONCRETE PAVEMENT".
- DETAILS AS TO PAVEMENT WIDTH, PAVEMENT THICKNESS, AND THE CROWN CROSS-SLOPE SHALL BE AS SHOWN ELSEWHERE IN THE PLANS.
- 4. 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-
- (a) 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 DUE 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
- LONGITUDINAL AND TRANSVERSE STEEL SPACING SHALL NOT VARY MORE THAN ONE TWELFTH 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 SPACING OF 24 INCHES.

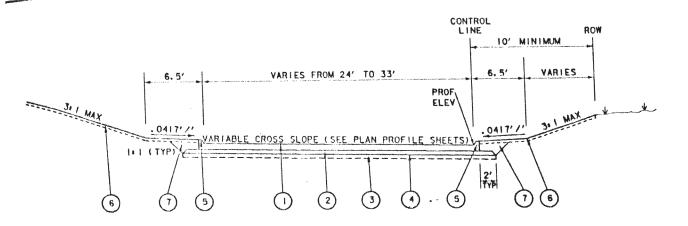
DEPTH OF PAVEMENT (INCHES)	DOWELS (SMOOTH BARS)				
	SIZE AND LENGTH	AVERAGE SPACING (INCHES)	WEIGHT PER FOOT OF JOINT (LBS.)		
- 8	i"X 18"	12	4.01		
9	ا <u>اً</u> " × 20"	12	5.63		
10	14 X 22"	12	7.65		
11	13 X 24"	12	10,10		



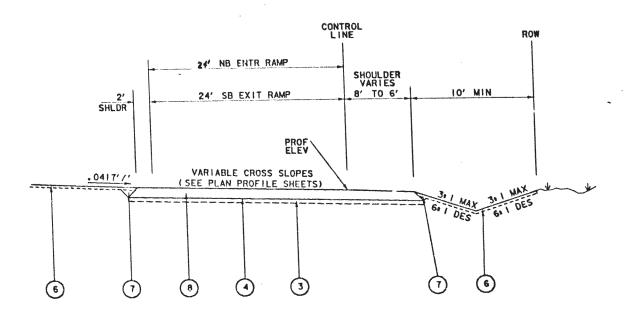
STATE DEPARTMENT OF HIGHWAYS AND PUBLIC TRANSPORTATION

CONCRETE PAVEMENT DETA CONTRACTION DESIGN CPCD -80(1)

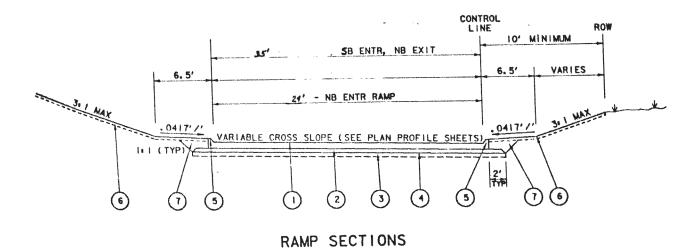
٨.	DRAWING.	DATE	FED NO	STATE	FEDERA	L PROJ	ECT NO	3
* DN	ORIGINAL		6	TEXAS	MA-M	100 8	(1)	-
*	REVISED		STATE					_
= OW	PEVISED		DISTNO	co	UNTY	CONT.	MECT	L
# 7R			18	C.II:	M	91	5	L



SB EXIT RAMP - PERMANENT SECTION

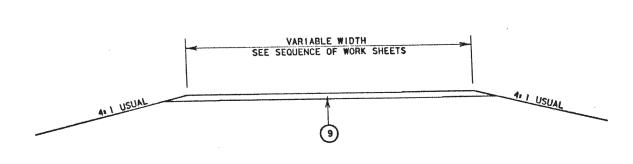


TEMPORARY PAVEMENT TO
NB'ENTRANCE RAMP AND SB EXIT RAMP

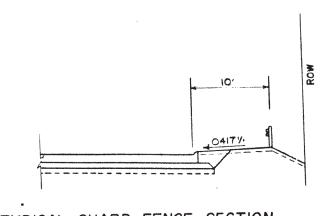


CONTROL 10' MINIMUM 24' NB ENTR RAMP G. 5' TAPER VARIES 24' OR 35'SB ENTR RAMP 6.5' VARIES TURN LANE 33' SB EXIT RAMP WIDTH VARIES 35' NB EXIT RAMP PROF 3.1 MAX .0417'/ WARIABLE CROSS SLOPE (SEE PLAN PROFILE SHEETS) IN (TYP) Y (3) (2)

U-TURN RAMP TAPER SECTIONS



TYPICAL FULL DETOUR



TYPICAL GUARD FENCE SECTION

LEGEND

- 9" CPCD

 6" ASPHALT STABILIZED BASE

 6" LIME TREATED SUBGRADE (4% LIME

 0.25 GAL/SY PRIME COAT

 TYPE I CURB
- TYPE I CURB
 4" MULCH SOD
 BACKFILL
 - 15" ASPHALT STABILIZED BASE 9" ASPHALT STABILIZED BASE

TYPICAL SECTION

NOTE: CROSS-STREETS TO BE BUILT TO SAME SECTION DEPTH AS SH 289 I.e. 9" CPCD, 6" ASB, 6"LTS

\$11,46	STATE	FED	HAS.	HO PHO	JECT NO
6	TEXAS	MA-M	50	09(.	3)
STATE DIST, NO.	COUNTY			CONTROL ML	MET 198
18	CC	LLIN		91	5