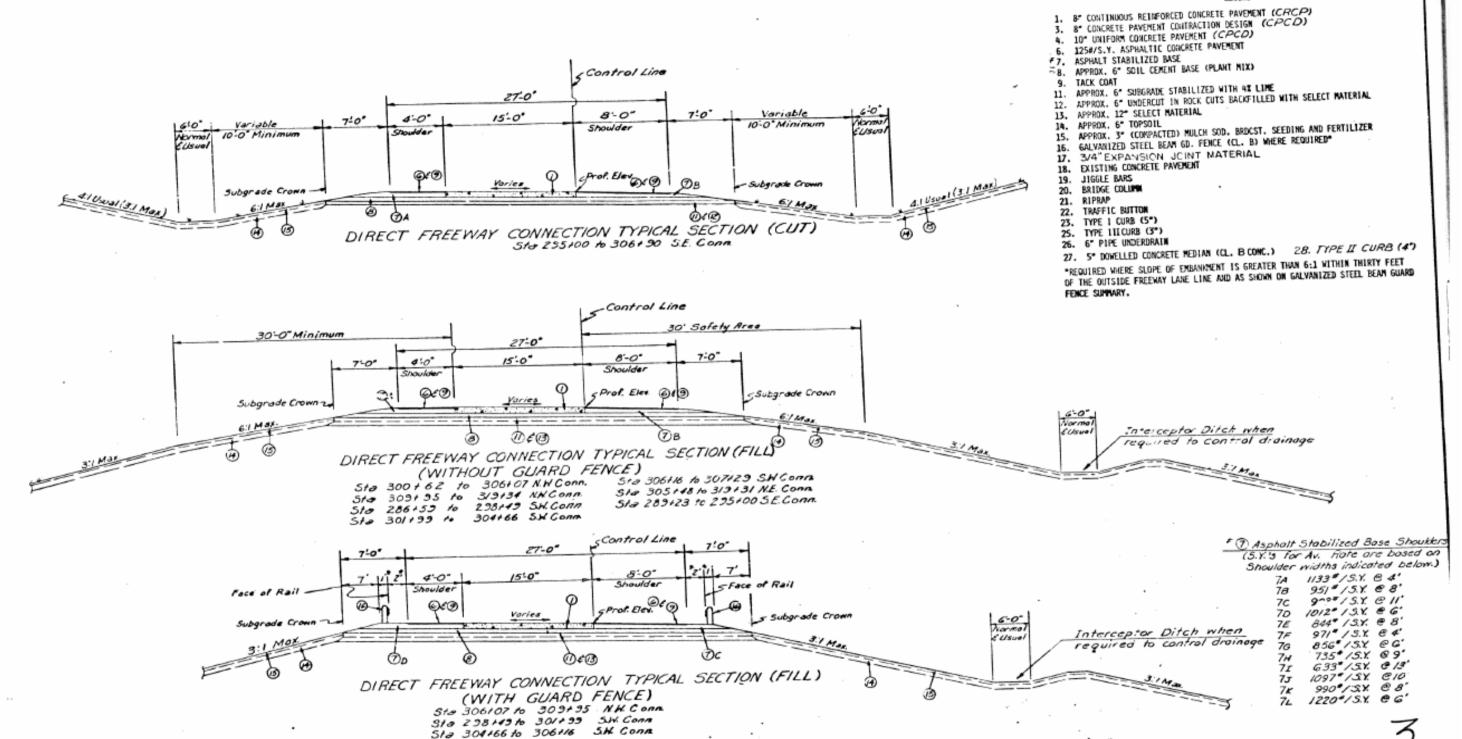
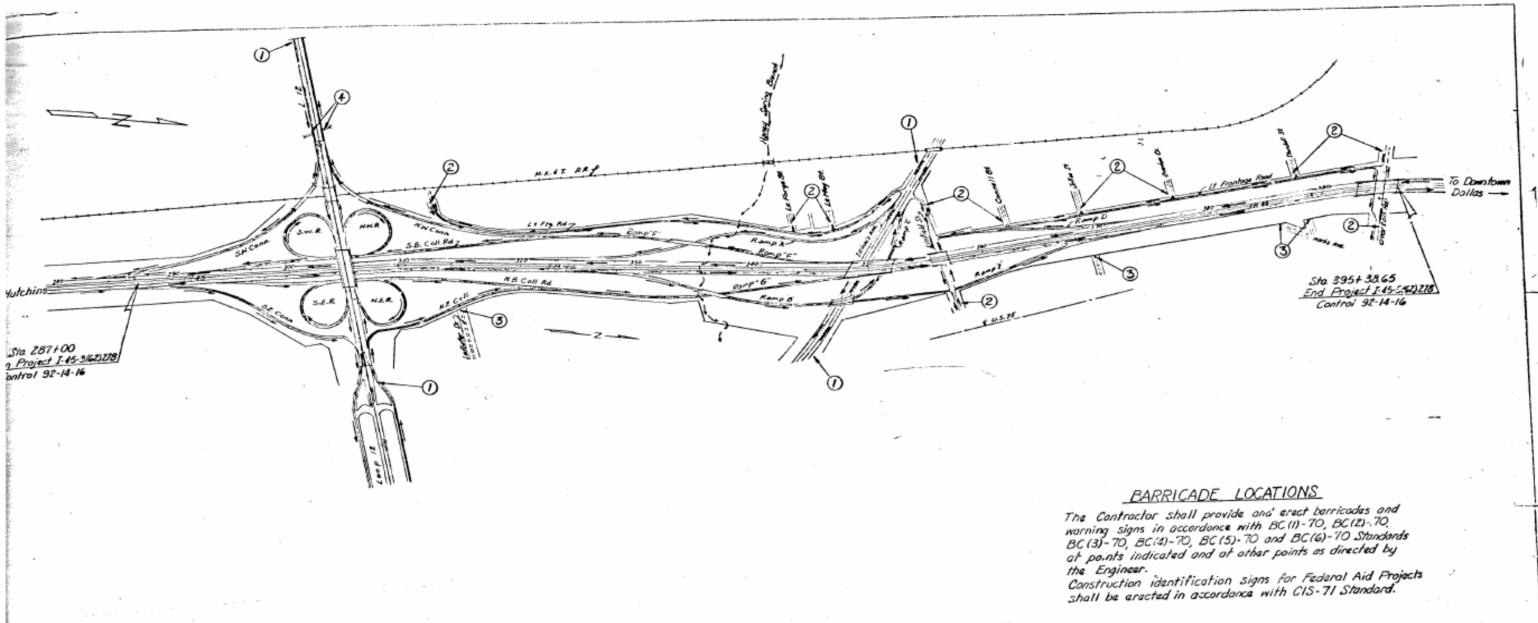
DALLAS 92-14-16 735511 STATE OF TEXAS DATE WORK BEGAN: 2/21/72 LETTING DATE : 1/27/53 DATE WORK COMPLETED . 10/14/75 INDEX OF SHEETS STATE HIGHWAY DEPARTMENT DATE WORK ACCEPTED: IC/16/75 FIELD CHANGE DESCRIPTIONS DESCRIPTION ET NO. TITLE SHEET F.C. No. 1 - Change in dimensions in cap length and beam specing on all bents of the Linfield Street 284 MC 10-2 PROJECT LAYOUT MCW-FI-30° Overpass Northbound. 285 TYPICAL SECTIONS PLAN OF PROPOSED Revise acceptance reggirements for preformed joint seal material in accordance with the MC-30* SPECIFICATION DATA SHEETS 286 GF (TD)- 70B Special Provision ESTIMATE AND QUANTITY SHEETS 288 BED (DH)-69 A STATE HIGHWAY IMPROVEMENT SUPPLARY SHEETS west end of cap by 3 feet. BAS-69 (MOD.) 4- Adjust the profile grade to provide sufficient slab depth and reinforcing steel cover PLAN SHEETS CPCR (B)-71 (1) CPCR (B)-71 (2) PROFILE SHEETS In the areas of the thickened top girder flanges (0.12 Ft, through the structure limits). FEDERAL AID PROJECT SUPERELEVATION TRANSITIONS CPCD-71 (REV.) RC (CPCR)-71 (REV.) CLF-69 F.C. No. 5-Construct Northwest Wingwall on Abutment Number 5 as shown on F. C. Plan Sht. 235A. 292 DETOURS AND LAYOUTS 1-45-3 (62) 278 F.C. No. 6" Interchange three prestressed concrete beams between Spans I and 3, relocate affected bearing seats and revise tiab reinforcing steel for Ramp F Overpass at Ramp A. CURVE DATA MISCELLANEOUS DETAILS 7- Provide Thermoplastic povement markings for edge lines along the median and outside INTERSTATE HIGHWAY 45 295 RCD-69 PIPE UNDERGRAIN LAYOUT povement edges on the freeway lanes. BC (I) THRU (6)-70 296-301 DRAINAGE AREA MAPS 8- The addition of Item 292, Aggr. (Gr.4XOver 120 %) and Item 340, Aggr (TyD)(Over 120 %) 302 CST-71 DALLAS COUNTY HYGRAULIC CALCULATIONS NOTE: THE CONTRACTOR SHALL MAKE HIS CULVERT AND STORM SEVER LAYOUT SHEETS 303 CIS-71 OWN INVESTIGATION AND ARRANGE-GRADING, STRUCTURES, STORM SEWERS AND CONCRETE PAVEMENT FROM: SOUTH OF LOOP 12 304 M-69 STORM SEVER AND PIPE PROFILES MENTS FOR TRACKAGE FACILITIES. INLET AND MANHOLE DETAILS SHEETS ADDED BY FIELD CHANGES CHLVERT CROSS SECTIONS AND DETAILS OVERTON ROAD & REVISIONS FROSTON CONTROL SHEET SCALE: I" = 40' OTHERS AS NOTED F.C. No. 1 - 244A - 247A M.K.T. R.R. OVERPASS WIDENING (LCOP 12) F.C. No. 2- None F.C. No. 3- 235A NET LENGTH OF PROJECT = 10,837,47 FT. = 2,051 MI. LAYOUT AND DETAILS M.K.T. R.R. OVERPASS N.W. CONNECTION TOTAL ROADWAY = 9,925.76 FT. = 1,879MI. F.C. No. 4-48A, 187A, 196A LAYOUT AND DETAILS M.K.T. R R. OVERPASS S.W. CONNECTION F.C. No. 5-233A TOTAL BRIDGES = 911.71 FT. = 0.172 MI. F.C. No. 6- 179A-186A LAYOUT AND DETAILS F.C. No. 7-27, 30,31,33-37,38A,371 LOOP 12 UNDERPASS (1.H. 45) LAYOUT 39-43,282A AND DETAILS F.C. No. 8 - None SACHSE RAMP "F" UVERPASS AT RAMP "A" ADDISON Revisions: 28A, 53A,54A, CARROLLTON LAYOUT AND DETAILS RAMP "B" OVERPASS AT NORTHBOUND 272A, 286A PLEASANT BICHARLSON COPPELL ROCKWA. COLLECTOR ROAD LAYOUT AND DETAILS FARMERS B ILLINOIS ALENGE OVERPASS (I.H. 45) LAYOUT BRANCH .. (35) AUDELIA GARLAND AND DETAILS 2 ILLINOIS ANTINUE OVERPASS RAMP "B" LAYOUT AND DETAILS (789) LINFIELD STREET OVERPASS (1.H. 45) BOCK-LAYOUT AND DETAILS WALL TRINITY RIVER ERIDGE NAVIGATION CROSSING (OVERTON ROAD OVERPASS) LAYOUT AND DETAILS Gp A Gp NS OVALE Gp C Go D STA, 395+38.65 CONT 92-14-16 JS-71 End Project I 45-3(62) 278 76 RAIL TY T-4 ME SQUITE -I 45-3(63) 231 TEXAS HIGHWAY DEPARTMENT RR 8 8 RR 9 BALCH 3 CH-II O COCKRELL Aug. 13 1271 30 CH-IIB- 30° 8 45° 2 RPM (1) 8 (2) SC-NA ŝ H=0--KLEBERG FLORENCE STA. 287+00 CONT 92-14-16 S SEAGOVILLE O DALLAS Begin Project 1 45-3(62)278 DALLAS - I 45-3(59)272 12 Aug . 21 023.1 S DEPARTMENT OF TRANSPORTATION DE SOTO ANCASTER CEDAR HILL 1301 12/1/7/ SPECIFICATIONS ADDRESS ON THE STATE HIGHWAY DEPARTMEN PROJECTION CONTRACTS OF THE SOUR PROMOTE STRANGES OF THE SOUR STRAINS AND SCHOOL SERVICES ON THIS PROJECT AND SOURCE ON THIS PROJECT SALES ON THIS PROJECT SALES ON THIS PROJECT SALES ON THE STRAINS ON THE STRAINS ON THE STRAINS ON THE SALES OF THE SALE alam. £ 42.16.71 NO EXCEPTIONS ONE EQUATION - 389 FIG. 235 BK - 389 FIL 410 FWG - 1175 NO RAILROAD CROSSINGS LAYOUT SCALE TIME 3 MILES

FINAL PLANS





TYPICAL SECTIONS SHEET 1 OF 5 SHEETS



3 CLASS II BARRICADE with Signs RIO-Z

CLASS I (D) BARRICADE
 To Be Erected At
 Each Culvert Widening.

NOTE: At Each Truck Crossing or Road Machinery Crossing, Place Signs W13-4, W21-8, W21-3 AND W11-1 As Directed By The Engineer.

① CLASS 1:(C) BARRICADES with Signs W20-IC, W20-IB, W20-IA, R10-8, G20-2, G20-6

To Be Placed At Each End Of Construction On Loop 12
And At II. ac's Avenue.

(2) CLASS ICOBARRICADE with Signs WI3-4, W21-4A
AND GLO-2.

To Ba Plocad At Streat Intersections As Directed By
The Engineer.

PROJECT LAYOUT

115 15 STATE TROUBLE TO MEET TO STATE OF STATE O

PROPOSED BEACONS ON LOOP IZ @ IH-45

Steel Pole set

in concrete

100P 12 5ta 85 t00

Flashing Beacon Head and One-Way, Two Section, Bouncing Ball Type with 12" Lenses, in accordance with Hem 7003.

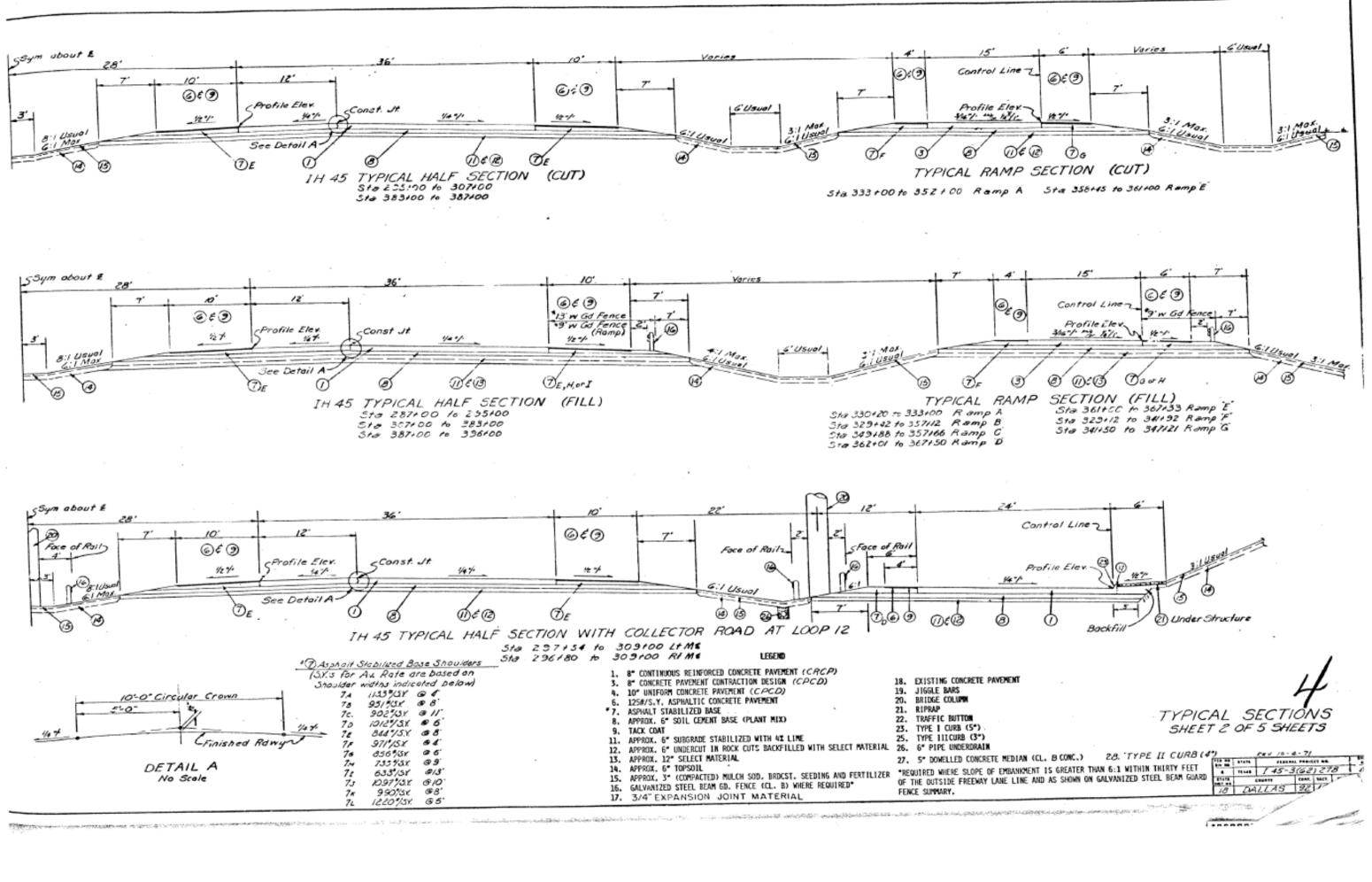
Flashing Beacon Controller, Two Circuit in accordance with Item 1002.

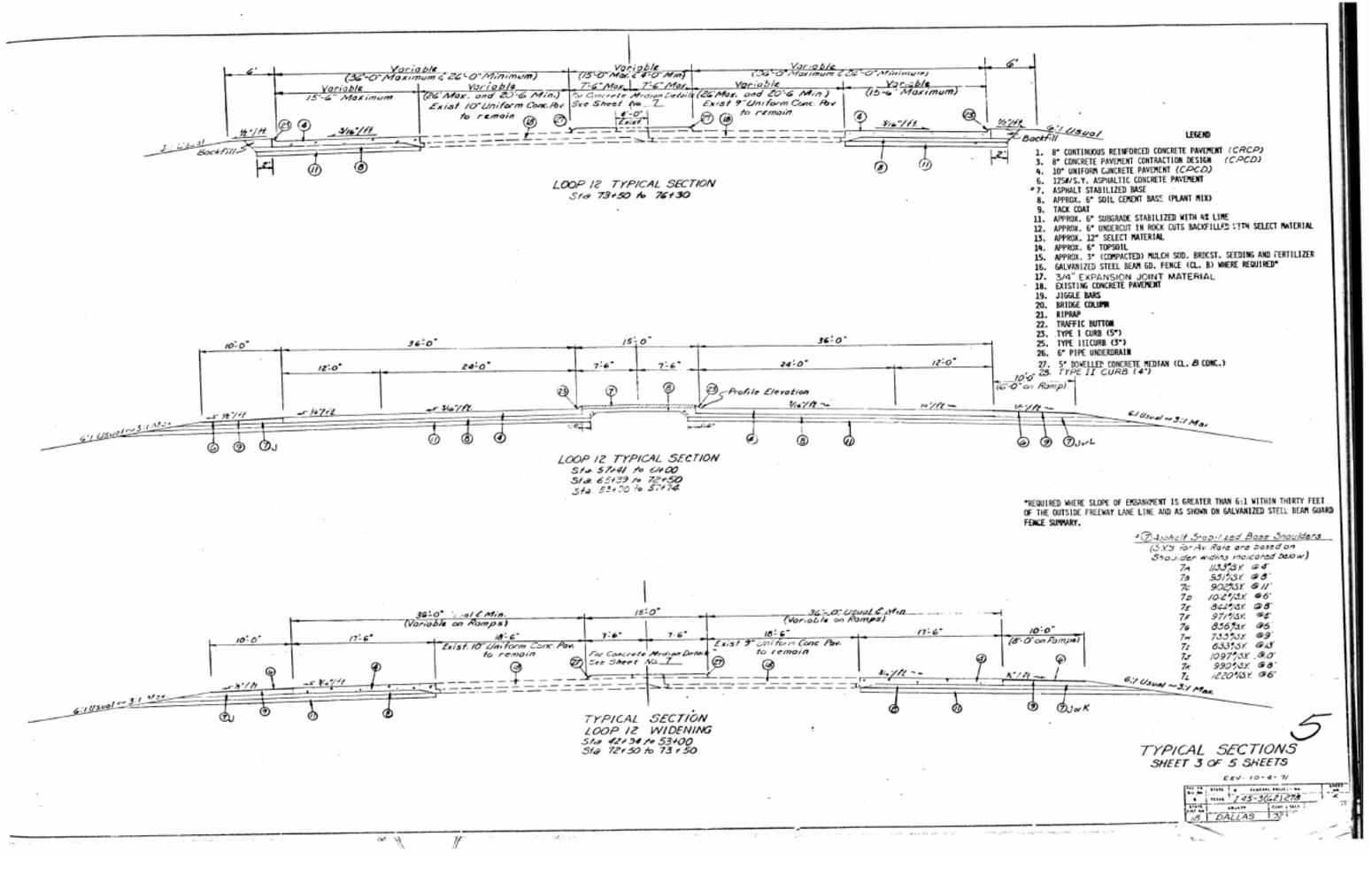
15% Min Soe

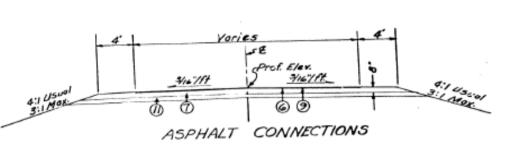
100P 12 5ta 41t50

Steel Pole set-

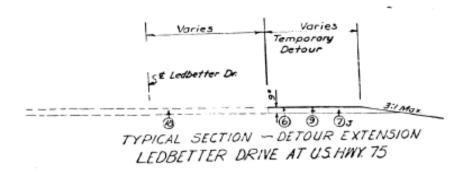
in concrete





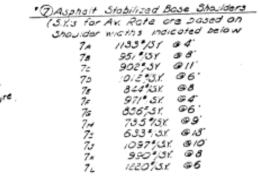


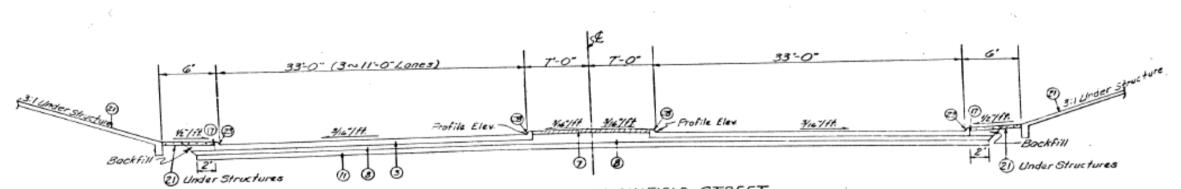
Sta. 0+00 to Sto. 1+00 4 Sta. 6+51 to Sta. 8+45 LINFIELD STREET Sto. 6+95 to Sto 7+46 & Sto. 12+00 to Sto. 12+55 OVERTON ROAD



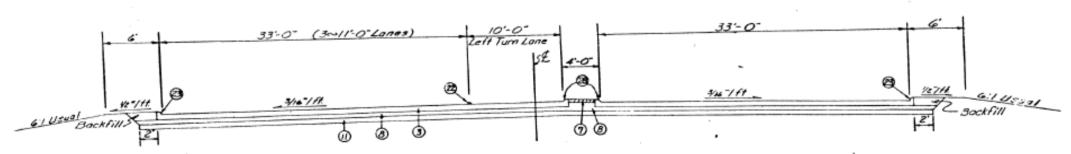


- 1. 8" CONTINUOUS RETHFORCED COMERTY, PAVEMENT (CRCP) 3. 8" CONCRETE PAVEMENT CONTRACTION DESIGN 4. 10" UNIFORM CONCRETE PAVEMENT (CPCD)
- 6. 1254/S.Y. ASPHALTIC CONCRETE PAVEMENT
- 7. ASPHALT STABILIZED BASE
- 8. APPROX. 6" SOIL CEMENT BASE (PLANT MIX)
- 9. TACK COAT
- 11. APPROX. 6" SUBGRADE STABILIZED WITH 4% LIME
 12. APPROX. 6" UNDERCUT IN ROCK CUTS BACKFILLED WITH SELECT MATERIAL
- 13. APPROX. 12" SELECT MATERIAL
- 14. APPROX. 6" TOPSOIL APPROX. 6" IDPSOIL
 APPROX. 3" (COMPACTED) MULCH SOD, BRDCST, SEEDING AND FERTILIZER
 GALVANIZED STEEL BEAM GD. FENCE (CL. B) WHERE REQUIRED"
 3/4" EXPANSION JOINT MATERIAL
- 16. 17.
- 18. EXISTING CONCRETE PAVEMENT
- JIGGLE BARS 19.
- 20. BRIDGE COLUMN
- RIPRAP 21.
- TRAFFIC BUTTON TYPE I CURB (5")
- 25. TYPE III CURB (3°)
- 6° PIPE UNDERDRAIN
- ZÀ. TYPE II CURB (4") 27. 5" DOWELLED CONCRETE MEDIAN (CL. B. CONC.) *REQUIRED WHERE SLOPE OF EMBANKMENT IS GREATER THAN 6:1 WITHIN THIRTY FEET
- OF THE OUTSIDE FREEWAY LANE LINE AND AS SHOWN ON GALVANIZED STEEL BEAM GUARD FENCE SUPPARY.



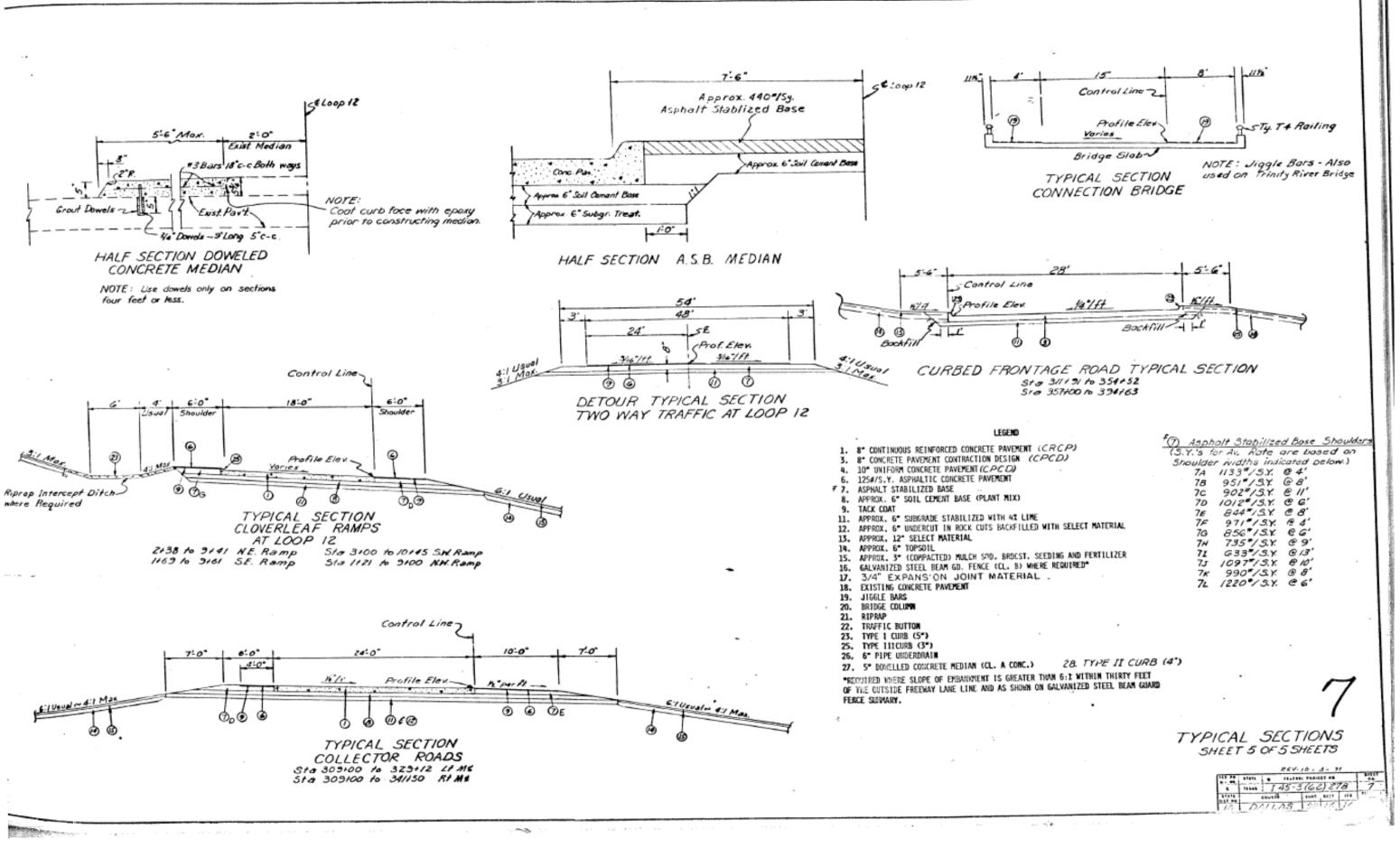


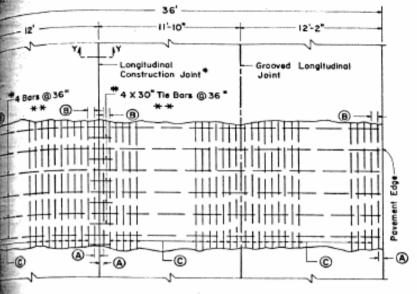
TYPICAL SECTION LINFIELD STREET Sta.3+20 to Sta.6+51



TYPICAL SECTION LINFIELD STREET AND OVERTON ROAD Sta 1+00 to Sta 3+20 LINFIELD STREET Sta. 7+46 to Sta. 12+00 OVERTON ROAD

TYPICAL SECTIONS SHEET 4 OF 5 SHEETS

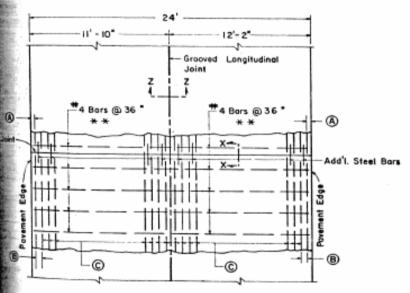




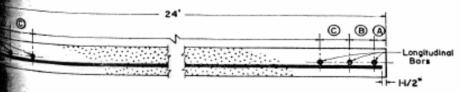
Long 1	Poverent Thickness "I" In.	cress Bor	24 ft Pipcement Width					12 ft , Piecement Width				dillo	Add'i Steel @ Trans. Coret			
			(A)	Eing e	, O	of Bons	5/44 1/44 1	Spe Sin	ecing c	, S	No. of Born	31001 (177	Size	2) No. per 24' place. width	2) No. per 12' place. width	Weight F/ft, bose on 12' plotemen
0.5	10	No.6	3	5	8.5	35	21.72	э	5.25	B.5	18	22.28	3/4°6×36°	18		3,38
	*	No.5	3	4.5	4.5	45	19.60	э	4	6.5	23	20.00	2/8" / 426"	22	11	2.87
		No.5	3	6	7.5	39	17.26	э	5.25	7.5	20	17.65	5/8" # ×36"	20	10	2.61
	7	No.5	3	5	4.5	35	15.69	4	8.5	8.5	17	15.30	5/8" / ×36"	18	+	2.35
	6	No.4	3	4.5	7	42	12.53	3	6	7	21	12.53	1/2°¢×36°	20	11	1.84
	10	140.0	0	,	7-25	+6	24.53	-9-	7.25	7.25	-20-	24.50	3/4*# ×36*	20	10	0.76
	•	140.6	9	5	•	-57	22.04	-9-	5	0	19	29.41	3/4"/×36"	19	10	0.76
-0.6		140.5	- 9	0.25	6.25	-46	20.00	-3-	3.5	6.25	24-	20.70	5/6%+36*-	- 63	-+-	2.61
		140.5	•	,	P+25		17.65	-9	7.25	7.25	20-	17:65	5/0°6×30°	20	10	2.01
	-	140.5	-3	-6	0.5	- 25	15.40	-	5.25	0.5	10	10.00	5/0%+30*	10	-	1.30

THREE LANE PAVEMENT PLAN (12ft. and 24ft. Placement)

THE HE APPROVAL OF THE ENGINEER, THE CONTRACTO" MAY PLACE THE PAVEMENT THE PULL MEMAY WIDTH AS ONE PLACEMENT, IF SO PLACED, THE LONGITUDINAL CONSTRUCTION THE SHOWN SHALL BE REPLACED BY THE GROOVED LONGITUDINAL JOINT.

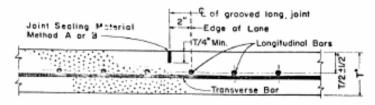


TWO LANE PAVEMENT PLAN
(24ft, Placement)

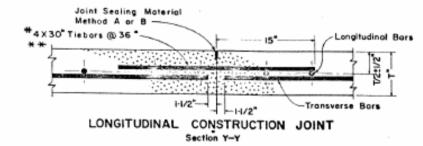


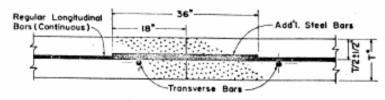
TYPICAL SECTION (24ft. Placement)

"LANE WIDTHS ARE FOR ILLUSTRATIVE PURPOSES ONLY AND SHOULD NOT NE USED IF IN CONFLICT WITH PYPICAL CROSS SECTIONS SHOWN ELSEWHERE IN THE PLANS.



GROOVED LONGITUDINAL JOINT
Section Z-Z





TRANSVERSE CONSTRUCTION JOINT Section x-x

(QEM.)

** SEE DESIGN DETAIL RECEPTATIONS STEEL REQUIREMENTS FOR RAMP CONNECTIONS.

GENERAL NOTES

25

- NO EXPANSION JOINTS WILL BE USED EXCEPT AT STRUCTURE EMDS OR FIXED OBJECTS AS SHOWN ELSEWHERE
 IN THE PLANS.
- FOR FURTHER INFORMATION REGARDING THE PLACEMENT OF CONCRETE AND REINFORCEMENT REFER TO THE GOVERNING SPECIFICATIONS FOR "CONCRETE PAVEMENT".
- DETAILS AS TO PAVEMENT MIDTH, PAVEMENT THICKNESS AND THE CROWN CROSS-SLOPE SHALL BE AS SHOWN ELSEWHERE IN THE PLANS.
- 4. WITHIN ANY AREA BOUNDED BY TWO FEET OF PAVEMENT LENGTH MEASURED PARALLEL TO THE CENTERLINE AND THELVE FEET OF PAVEMENT WIDTH MEASURED PROFESDICULAR TO THE PAVEMENT CENTERLINE, NOT OVER 33% OF THE REGULAR LONGITUDINAL STEEL SHALL BE SPLICED.
- 5. LONGITUDINAL AND TRANSVERSE BARS SHALL BE STEEL CONFORMENG TO ASTM A-615 OR ASTM A-616 (GRADE 60) AS MOTED IN THE SPECIFICATIONS.
- 6. SPLICES SHALL BE A MINIMUM OF 29 TIMES THE NOMINAL DEAMETER OF THE BAR.
- BARS OF ASTM DESIGNATIONS: A=615 OR A=616, GRADE 60 STEEL SHALL NOT BE BENT. IF THE CONTRACTOR ELECTS TO BEND THE THEBARS, THEY SHALL BE STEEL CONFORMING TO ASTM DESIGNATION: A=615, GRADE NO, AND SPACED AT 24" C=C.
- 8. AT TRANSVERSE CONSTRUCTION JOINTS THE REGULAR LONGITUDINAL BARS SHALL EXTEND BEYOND THE JOINT SO THAT THE BAR SPLICES FOR THE REGULAR LONGITUDINAL BARS SHALL SE A MINIMUM OF FOUR FEET FROM THE CONSTRUCTION JOINT. AT LONGITUDINAL CONSTRUCTION JOINTS IF THE CONTACTOR ELECTS TO CONTINUE THE REGULAR TRANSVERSE STEEL THROUGH THE JOINT. THE 49 \$TIEBAR SHOWN HEREON MAY BE DELETED. VIBRA-TION WITH HAND MANIPULATED MECHANICAL VIBRATORS WILL BE REQUIRED ADJACENT TO ALL TRANSVERSE CON-STRUCTION JOINTS..
- 9. WITH THE APPROVAL OF THE ENGINEER, MULTIPLE PIECE TIEBARS (THREADED COUPLING OR OTHER ADEQUATE DEVICE) HAY BE USED TO FACILITATE CONSTRUCTION PROVIDED THE SYSTEM DEVELOPS A FORCE EQUAL TO 1 1/2 TIMES THE HINIHUM YIELD 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.
- 10. THE CHAIRS USED TO SUPPORT THE BAR HAT SHALL BE OF SUFFICIENT STRUCTURAL QUALITY AND NUMBER TO HOLD THE MAT WITHIN THE PLACEMENT HEIGHT TOLERANCES, AND SHALL BE OF A TYPE APPROVED BY THE ENGI-MEER.
- 11. IN THE MORMAL 36" PLACEMENT FOR THE TRANSVERSE BARS, CHAIRS SHALL BE PLACED UNDER EVERT TRANSVERSE BAR. THE TRANSVERSE SPACING SHALL BE A 48" HAXIMUM. PLACEMENT HAY BE STAGGERED SO THAT CHAIRS IN A TERMATE ROWS ARE CENTERED BETWEEN THE CHAIRS IN ADJACENT ROWS.
- 12. JOINT GROOVE AND SEAL DETAILS SHALL BE AS SHOWN ELSEWHERE IN THE PLANS
- 13. LONGITUDINAL AND TRANSVERSE STEEL SPACING SHALL NOT VARY MORE THAN ONE-TWELFTH OF THE SPACING SHOWN HEREON,
- 14. WHEN MACHINE PLACING OF STEEL REINFORCEMENT IS USED, THE USE OF CHAIRS SHALL NOT BE REQUIRED, AND THE TRANSVERSE STEEL MAY BE PLACED EITHER ABOVE OR BELOW THE LONGITUDINAL STEEL.
 - NOTE: THE SPACINGS
 SHOWN IN THE ABOVE PLACEMENT TUBLE ARE THE
 MADDIME MAY FROM THE PASIC DESIGN. WIDTH SHOWN, THE SPACING
 MAD THE ADJACENT SPACING SHALL BE ADJASTED TO
 ACCOMMODATE A REINFORCEMENT ARRANGEMENT EQUAL TO OR
 SEIGHT, YIELD AND THAT SHOWN AS DIRECTED BY THE ENGINEER.
 - ① INCLUDES BOTH REGULAR LONGITUDINAL AND TRANSVERS: BASS BASED UPON I FOOT PAVEMENT LENGTHS FOR THE WIDTH INDPCATED, ALL TRANSVERSE STEEL IS *4 BASS AT 36 *CENTERS. ★ ★
 - THIS SHALL BE THE MINIMUM NUMBER OF ADDITIONAL STEEL BARS TO BE PLACED FER LANE. THE SPACING OF THE ADDITIONAL STEEL BARS SHALL BE VARIED AS DIRECTED IN ORDER TO PROVIDE A MINIMUM CLEARANCE OF 18/4" FROM EACH REGULAR LONGITUDINAL RUMPORCING BAR.

TEXAS HIGHWAY DEPARTMENT

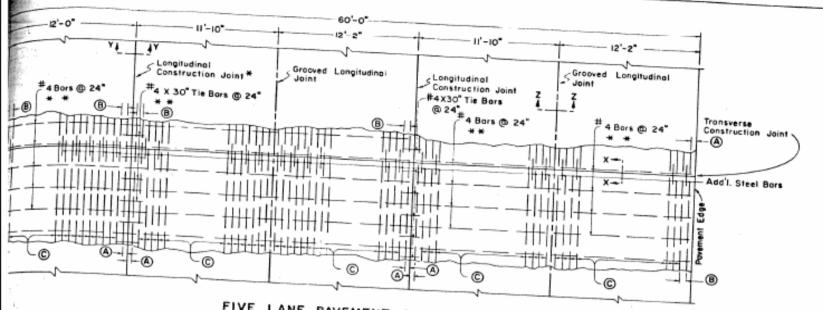
CONCRETE PAVEMENT DETAILS
CONTINUOUSLY REINFORCED

STEEL BARS

CPCR (B)- 71 (1)

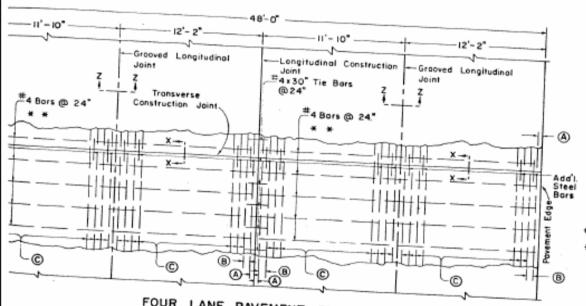
290

DN.	DEALWARD	DATE	****						
CK DN.	OFIGHAL	FEB. 1969	Cm 546	_					
Ow.	PEYMED	DEC. I, 1969	1 4	78.04	1 45-3 (62) i	278		290
CX.DW.						1	T	T	1
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CK TR		1	1.18	DALL	AS	152	14	16	11144

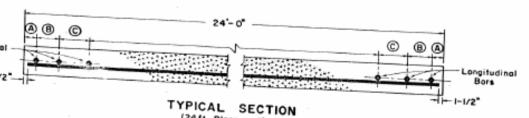


FIVE LANE PAVEMENT PLAN (12 ft. and 24 ft. Placement)

* MITH THE APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY PLACE THE PAVEMENT THE FULL ROADWAY WIDTH AS ONE PLACEMENT. IF SO PLACED, THE LONGSTUDINAL CONSTRUCTION JOINT SHOWN SHALL BE REPLACED BY THE GROOVED LONGSTUDINAL JOINT.

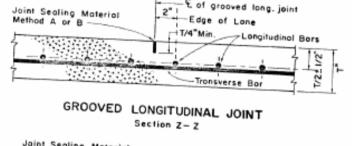




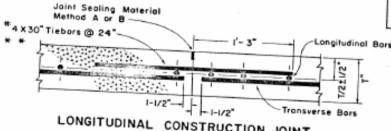


(24ft Placement)

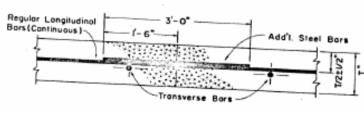
* LANE WIDTHS APE FOR ILLUSTRATIVE PURPOSES ONLY AND SHOULD NOT BE USED IF IN CONFLICT



-€ of grooved long. joint



LONGITUDINAL CONSTRUCTION JOINT Section Y-Y



TRANSVERSE CONSTRUCTION JOINT

** SEE DESIGN DETAIL RC (CPCRI-7 / FOR STEEL REQUIREMENTS

Joint Sealing Material Method A or B

CENERAL MATES

- MO EXPANSION JOINTS WILL BE USED EXCEPT AT STRUCTURE ENDS OR FIXED OBJECTS AS SHOWN ELSEWHERE IN
 THE PLANS.
- 2. FOR FURTHER 1. DEPARTION REGARDING THE PLACEMENT OF CONCRETE AND REINFORCEMENT, REFER TO THE GOVERNING SPECIFICATIONS FOR "CONCRETE PAVEMENT".
- 3. DETAILS AS TO PAVEMENT WIDTH PAVEMENT THICKNESS AND THE CROWN CROSS-SLOPE SMALL BE AS SHOWN ELSE-
- MITHIN ANY AREA BOUNGED BY TWO FEET OF PAVEH NT LENGTH HEASURED PARALLEL TO THE CENTERLINE AND THE FEET OF PAVEHENT WITTH MEASURED PERPENDICULAR TO THE PAVEHENT CENTERLINE, NOT OVER 334 OF THE REGULAR LONGITUDINAL STEEL SHALL BE SPLICED.
- 5. LONGITUDINAL AND TRANSVERSE BARS SHALL BE STEEL CONFORMING TO ASTM 4-615 OR ASTM 4-616 (GRADE 60)
 AS NOTED IN THE SPECIFICATIONS.
- 6. SPLICES SHALL BE A MINIMUM OF 24 TIMES THE NUMINAL DIAMETER OF THE BAR.
- BARS OF ASTM DESIGNATIONS: A-615 OR A-616, CEA ** STEEL SHALL NOT BE BENT. IF THE CONTRACTOR ELECTS TO BEND THE TIEBRAS, THEY SHALL BE STEEL **DAMING TO ASIM DESIGNATIONS: A-615, GRADE ND AND SPACED 22" C-6, FOR 37" TO 60" PAYEMENT NIT. **DAMING TO ASIM DESIGNATIONS: A-615, GRADE ND AT TRANSVERSE CONSTRUCTION JOINTS THE REGULAR LONGITUDINAL BARS SHALL EXTEND BEYOND THE JOINT SO CONSTRUCTION JOINT. AT LONGITUDINAL CONSTRUCTION JOINTS IF THE CONTRACTOR FLEETS TO CONTINUE THE MANAYERSE STEEL THROUGH THE JOINT. THE NATIONAL BARS SHOWN HEREON MAY BE DELETED. VIDRATION MITH HAND MANIPULATED MECHANICAL VIDRATORS WILL BE REQUIRED ADJACENT TO ALL TRANSVERSE CONSTRUCTION JOINTS.
- WITH THE APPROVAL OF THE ENGINEER, MULTIPLE PIECE TIEBARS (THREADED COUPLING DR OTHER ADEQUATE DEVICE) MAY BE USED TO FACILITATE CONSTRUCTION PROVIDED THE SYSTEM DEVILOPS A FORCE EQUAL TO 1 1/2 TIMES THE MINIMUM YIELD 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 STRENGTM.
- THE CHAIRS USED TO SUPPORT THE BAR MAT SMALL BE OF SUFFICIENT STRUCTURAL QUALITY AND NUMBER TO MOLD THE MAT WITHIN THE PLACEMENT HEIGHT TOLERANCES, AND SMALL BE OF A TYPE APPROVED BY THE ENGINEER.
- In the normal 20" PALCEMENT FOR THE TRANSVERSE BARS, CHAIRS SHALL BE PLACED UNDER EVERY TRANSVERSE BAR. THE TRANSVERSE SPACING SHALL BE A 42" MAXIMUM. PLACEMENT MAY BE STAGGERED SO THAT CHAIRS IN ALTERNATE ROWS ARE CENTERED BETWEEN THE CHAIRS IN ADJACENT ROWS.
- 12. JOINT GROOVE AND SEAL DETAILS SHALL BE AS SHOWN ELSEWHERE IN THE PLANS.
- LONGITUDINAL AND TRANSVERSE STEEL SPACING SHALL NOT VARY MORE THAN ONE-TWELFTH OF THE SPACING SMORN HEREON.
- MINEN MACHINE PLACING OF STEEL REINFORCEMENT IS USED. THE USE OF CHAIRS WILL NOT BE REQUIRED, AND THE TRANSVERSE SCIEL MAY BE PLACED EITHER ABOVE OR BELOW THE LONGITUDINAL STEEL.

Cent Povement		24 fr. Placement Width				12 ft. Placement Width										
ong Heat	Thickness "I" in.	Box When	in.	(B)	Ď.,	of Son	Sneed */ay ①	3 in	G in	c.	No. of Bors	Sicel */sy ①	Size	per 24' place.	per 12' place.	Weight */ft.bases on 12*
	,	No.6 No.5	3	5	8.5	35	22.72	э	5.25	8.5	18	23.28	3/4" 6 x36"	width 18	width	pieca. 3.38
0.5	*	No.5	3	4.5	7.5	45	20.61	3	4	6.5	23	21.00	5/8"/ 436"	22	n	2.87
0.3	7	Ne.5	3	5	8.5	35	16.70	3	5.25 8.5	7.5 8.5	20 17	18.65	5/8"6 x 36"	20	16	2.61
	6	No.4	3	4.5	7	42	13,53	э	6	7	21	14.30	3/8"6×36" 1/2"6×36"	8.1	,	2.35
	+0	140.0	,	7	7.25	40	25.52	-3	7.25	9.25	-	25:52	0-4-6 x36-	20	11	1.84
		No.6	:	4.75	6,25	- 1	93,85		-	- 1	19	24.41	2/4°6×30°	-19-	10	3.76
	_ 1	140.5		_		i	18:45	-0-			- 1	21.76	3-0-6-30-	23		2.67
_	+	No.5	3	5			16.70	. 1	!	7.23	20	- 1	5-6-M ×30-	-20-	10	2.01
				-	-	-				0.5	16	17.09	5-0-9-36	10		2.35

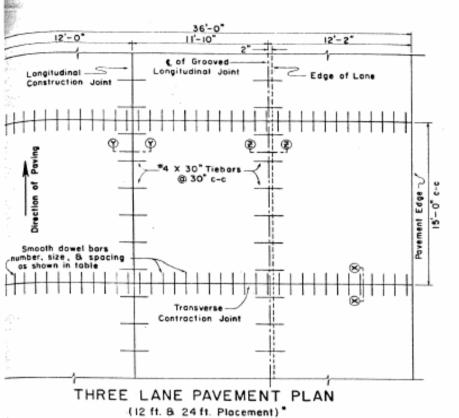
- NOTE: THE SPACINGS (B) SHOWN IN THE ABOVE PLACEMENT TABLE ARE THE MAXIMUM ALLOWABLE SPACINGS. WHERE THE PROPOSED PLACEMENT WIDTHS WARY FROM THE BASIC DESIGN WIDTH SHOWN, THE SPACING (B) AND THE ADJACENT SPACING (C) SMALL BE ADJASTED TO THAT SHOWN AS DIRECTED BY THE ENGINEER.
- INCLUDES BOTH REGULAR LONGITUDINAL AND TRANSVERSE BARS BASED UPON 1 FOOT PAYEMENT LENGTHS FOR THE WIDTH INDICATED. ALL TRANSVERSE STEEL IS AR BARS
- THIS SHALL BE THE MINIMUM NUMBER OF ADDITIONAL STEEL BARS TO BE PLACED PER LANE. THE SPACING OF THE ADDITIONAL STEEL BARS SHALL BE VARIED AS DIRECTED IN ORDER TO PROVIDE A MINIMUM CLEARANCE OF 1-34 " FROM EACH REGULAR LONG!"

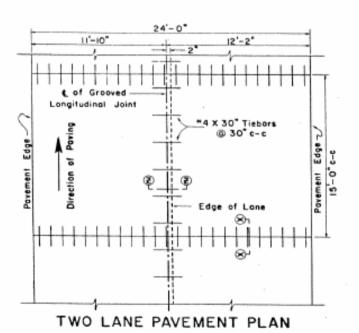
TEXAS HIGHWAY DEPARTMENT

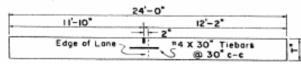
CONCRETE PAVEMENT DETAILS CONTINUOUSLY REINFORCED

STEEL BARS

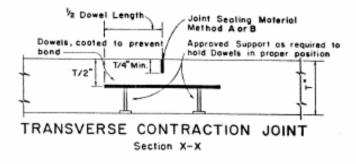
CPCR (B)-71 (2)

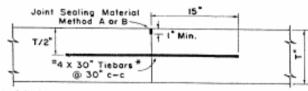






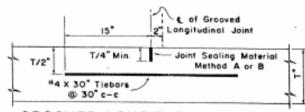
TYPICAL SECTION (24 ft. Placement)*





LONGITUDINAL CONSTRUCTION JOINT Section Y-Y

"WITH THE APPROVAL OF THE ENGINEER, MULTIPLE PIECE TRIBARS (THREADED COUPLING OF OTHER ADEQUATE DEVICES MAY BE USED TO FACILITATE CON-STRUCTION PROVIDED THE SYSTEM DEVELOPS A FORCE EQUAL TO 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



GROOVED LONGITUDINAL JOINT Section ₹~₹

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

GENERAL NOTES

- NO EXPANSION JOINTS WILL BE USED EXCEPT AT STRUCTURE ENUS OR FEXED OBJECTS AS SHOWN ELSE-WHERE IN THE PLANS.
- FOR FURTHER INFORMATION REGARDING THE PLACEMENT OF CONCRETE AND LOAD TRANSFER DEVICES REPER TO THE GOVERNING SPECIFICATIONS FOR "CONCRETE PAYEMENT".
- DETAILS AS TO PAVEMENT WILLTH, 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.
- TIEBARE SHALL BE SECURED PARALLEL TO THE PAVEMENT SURFACE AND PERMINDICULAR TO THE CENTER-LINE BY:
- (c) USE OF BASE CHAIRS
 (b) ACCUPANTELY PLACED IN POSITION ON THE SCREEPED 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 WOEK 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 JOINT! AND MAY BE FORMED BY ANY MEANS WHICH, PRIOR TO ITS USE, HAS BEEN APPROVED BY THE ENGINEER.
- 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.
- LONGITUDINAL AND TRANSVERSE STEEL SPACING SHALL NOT VARY MORE THAN ONE TWELFTH OF THE SPACING SHOWN HEREON.
- THE TIEBAR SPACINGS SHOWN ARE FOR ASTMIDESIGNATIONS: 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 ASTMIDESIGNATION: A-615, GRADE 40, WITH A CENTER TO CENTER SPACING OF 24 INCHES.
- SEE PC (CPCR)-714FOR STEEL PLACING REQUIREMENTS IN THE AREA OF CONFLUENCE AT RAMP TERMINALS.

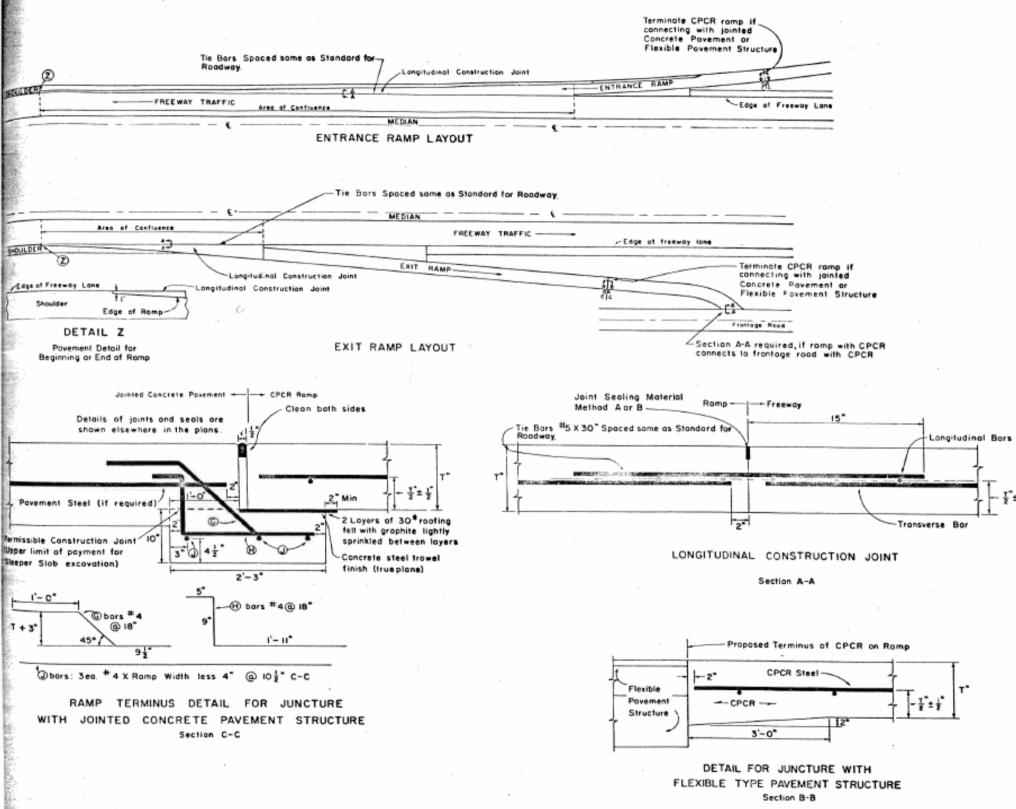
DEPTH OF	DOWELS (SMOOTH BARS)									
PAVEMENT (INCHES)	SIZE AND LENGTH	AVERAGE SPACING (INCHES)	WEIGHT PER FOOT OF JOINT (LBS.)							
. 8	1" X 18"	12	4.01							
9	1 X 20"	12	5.63							
10	14 X 22"	12	7.65							
- 11	18 X 24"	12	10.10							

TEXAS HIGHWAY DEPARTMENT

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

292

DM:	DRAWING	DRAWING DATE			Man man		N. PROMET NO.			
CK DW	Original	Feb. 1969	7	111446					202	
CE DW	⊣		579/15			The Parket of th	or and the later of the	_	27.2	
YR.			9157 MM.		COLWIT	CONT.	SECT.	408		
CK. YR:			18	D44	1.A5	192	14 1	16	ITH4	



GENERAL NOTES

- FOR FUST-SHIP-PORMATION RESERVOING THE PLACEMENT OF CONCRETE AND PERMITORCEMENT REPER TO THE GOVERNING SPECIFICATION FOR CONCRETE INVENTED.
- RAMP DETAILS ARE TYPICAL QUILT. GEOMETRIC DETAILS AS TO ALIGNMENT. PAVEMENT WIDTH, PAVEMENT THICKNESS. AND THEFE (WAIT CROSS SLOVE SHALL BE AS SHOWN ELSEWHERE IN THE PLANS.
- J. THE DESIGN, REQUIREMENTS FOR THE PAVEMENT STRUCTURE, I.E. BAR SPACING, BAR SIZE, LAP REQUIREMENTS, ETC., SHALL BE AS SHOWN OF THE APPROPRIATE CHOCK DESIGN DETAIL.
- 4 IF THE CONTRACTOR ELECTS TO CONTINUE THE REQUIRP TRANSVERSE STEEL THROUGH THE JOBET AT THE LONGITUDINAL CONSTRUCTION JOINTS. THE NUMBER'S HOUR DITERAR AS SHOWN HEREON MAY BE DELETED. THE LOCATION OF THE KAMPS SHALL BE AS SHOWN LESEWHERE IN THE PLANS.
- THE SECUENCE OF OPERATION IN PLACING THE RAMP SHALL BE AS DIRECTED BY THE ENGINEER. THE LONGITUDINAL STEEL SHALL BE PLACED IN A DIRECTION APPROXIMATELY PARALLEL TO THE DIRECTION OF THE BAMP.
- LONGITUDINAL AND TRANSVERSE STEEL SPACING SHALL NOT VARY MORE THAN ONE TWELFTH OF THE SPACING SHOWN HEREON.
- IN THE AREA OF CONFLUENCE TRANSVERSE BARS AND TIE BARS (MAIN LANES AND RAMPS) WILL BE *5 BARS WITH SPACING SALT AS THAT IN STANDARD FOR EDADWAY.

TEXAS HIGHWAY DEPARTMENT

RAMP CONNECTIONS
FOR
CONCRETE PAVEMENT
CONTINUOUSLY REINFORCED

RC (CPCR)-71 (REV) 293

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