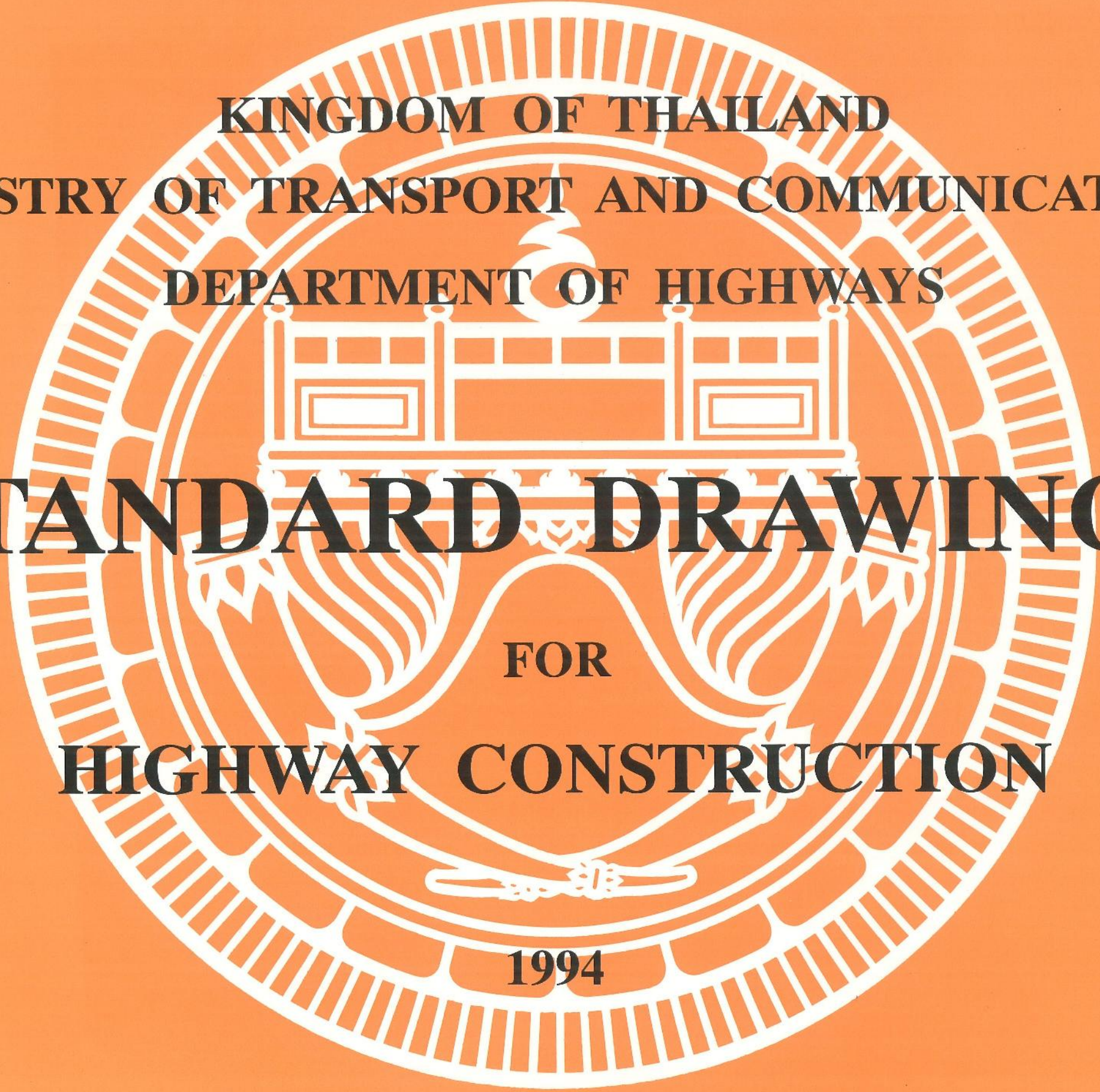


The seal of the Department of Highways is a large, circular emblem in the background. It features a central shield with a crown on top, flanked by two lions. The shield is surrounded by a circular border with a repeating pattern. The text "KINGDOM OF THAILAND" is at the top, "MINISTRY OF TRANSPORT AND COMMUNICATIONS" is in the middle, and "DEPARTMENT OF HIGHWAYS" is at the bottom.

KINGDOM OF THAILAND
MINISTRY OF TRANSPORT AND COMMUNICATIONS
DEPARTMENT OF HIGHWAYS

STANDARD DRAWINGS

FOR
HIGHWAY CONSTRUCTION

1994

KINGDOM OF THAILAND
MINISTRY OF TRANSPORT AND COMMUNICATIONS
DEPARTMENT OF HIGHWAYS

STANDARD DRAWINGS
FOR
HIGHWAY CONSTRUCTION

JOINTLY PREPARED BY

CONSULTANT GROUPS

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DEPARTMENT OF HIGHWAYS OFFICERS

ROADWORK COMMITTEE

MR. CHAIYAPORN PUNYASIRI	CHAIRMAN
MR. KIRKKIAT SATAVUTHI	MEMBER
MR. CHUKIAT LUANGCHARU	MEMBER
MR. BUNCHA NIMPONGSAK	MEMBER
MR. PINIJ KEOWMAKOOON	MEMBER

STRUCTURAL WORK COMMITTEE

MR. KAMPOL URUYOS	CHAIRMAN
MR. WANCHAI CHANSWANGPHUVANA	MEMBER
MR. SOMBAT JAROENPAT	MEMBER
MR. KITTIPONG MEPANYO	MEMBER
MISS SIRILAK SUPHARAJ	MEMBER
MR. SOMPORN RATTANABURI	MEMBER

PREFACE

THE GOVERNMENT OF THE KINGDOM OF THAILAND, THROUGH THE DEPARTMENT OF HIGHWAYS, HAS GRADUALLY IMPROVED ITS HIGHWAY SYSTEM THROUGHOUT THE KINGDOM IN ORDER TO IMPROVE SAFETY, MODERNIZE FACILITIES AND OBTAIN HIGH STANDARD HIGHWAYS.

AS A RESULT, THE DEPARTMENT OF HIGHWAYS HAS NEEDED TO IMPROVE AND REVISE ALL THE DEPARTMENT'S HIGHWAY STANDARD DRAWINGS TO COVER CURRENT DESIGN TRENDS FOR NEW HIGHWAY CONSTRUCTION.

DUE TO TIME CONSTRAINTS TO PRODUCE THESE REVISED STANDARDS, SOME ADDITIONAL REVISIONS MAY STILL NEED TO BE MADE IN THE FUTURE TO FINALIZE THESE UPDATED STANDARD DRAWINGS, AS WELL AS TO INCLUDE FUTURE DESIGN TRENDS AS THEY DEVELOP.

PART I

LIST OF STANDARD DRAWINGS FOR ROADWORK

SHEET NO.	TITLE	DRAWING NO.	SHEET NO.	TITLE	DRAWING NO.
1	ABBREVIATIONS AND SYMBOLS	AS - 001	57	RIP RAP PROTECTION FOR EMBANKMENT SLOPE	SP - 105
2	METHOD OF ATTAINING SUPERELEVATION AND WIDENING OF PAVEMENT FOR CIRCULAR CURVE	TS - 101	58	SPECIAL PROVISION OF GABIONS	SP - 106
3	METHOD OF ATTAINING SUPERELEVATION AND WIDENING OF PAVEMENT FOR SPIRAL CURVE	TS - 102	59	SPECIFICATION OF GABIONS	SP - 107
4	METHOD OF ATTAINING SUPERELEVATION AND WIDENING OF PAVEMENT FOR COMPOUND AND REVERSE CURVE	TS - 103	60	SPECIFICATION FOR GABIONS CONSTRUCTION	SP - 108
5	BRIDGE APPROACH TRANSITION	TS - 201	61	FERRO-CEMENT BACK SLOPE PROTECTION	SP - 201
6	TYPICAL CROSS-SECTION AT VILLAGE SECTION-I	TS - 301	62	CONCRETE SQUARE GRID SLOPE PROTECTION	SP - 202
7	TYPICAL CROSS-SECTION AT VILLAGE SECTION-II	TS - 302	63	GRASSING IN CONCRETE SQUARE GRID AND GRID BEAM	SP - 203
8	TYPICAL ROADWAY CROSS-SECTION FOR R.O.W. WIDTH 20.00 M.	TS - 303	64	VETIVER GRASSING FOR SLOPE PROTECTION	SP - 204
9	TYPICAL ROADWAY CROSS-SECTION FOR R.O.W. WIDTH 30.00 M.	TS - 304	65	HYDROSEEDING FOR SLOPE PROTECTION	SP - 205
10	TYPICAL ROADWAY CROSS-SECTION FOR R.O.W. WIDTH 40.00 M.	TS - 305	66	CONCRETE GRID BEAM BACK SLOPE PROTECTION	SP - 301
11	23 CM. CONCRETE PAVEMENT	TS - 401	67	RENO MATTRESS SLOPE PROTECTION	SP - 401
12	25 CM. CONCRETE PAVEMENT	TS - 402	68	R.C. PIPE CULVERT	DS - 101
13	BRIDGE APPROACH SLAB AND POROUS BACKFILL MATERIALS	TS - 403	69	R.C. PIPE CULVERT INSTALLATION	DS - 102
14	CROSS-SECTION FOR DEEP CUT AND HIGH FILL	TS - 501	70	HEADWALL FOR R.C. PIPE CULVERT	DS - 103
15	PAVEMENT TRANSITION DETAILS	TS - 601	71	R.C. HEADWALL FOR SINGLE R.C.P. CULVERT	DS - 104
16	TYPICAL SURFACE OVERLAY SECTION	TS - 602	72	R.C. HEADWALL FOR MULTIPLE R.C.P. CULVERT	DS - 105
17	TYPICAL CLIMBING LANE SECTION	TS - 701	73	R.C. HEADWALL FOR SKEW R.C.P. CULVERT	DS - 106
18	MINOR SIGN & SIGN POST DETAILS	RS - 101	74	SIDE DITCH LINING & DROP INLET CROSS DRAIN	DS - 201
19	TRAFFIC CONTROL DEVICES FOR HIGHWAY UNDER CONSTRUCTION - I	RS - 102	75	CONCRETE DITCH AT HILLSIDE	DS - 202
20	TRAFFIC CONTROL DEVICES FOR HIGHWAY UNDER CONSTRUCTION - II	RS - 103	76	R.C. DRAIN OUTLET FOR R.C.P. CULVERT	DS - 203
21	TRAFFIC CONTROL DEVICES FOR HIGHWAY UNDER CONSTRUCTION - III	RS - 104	77	CATCH BASIN AT INLET FOR R.C.P. CULVERT	DS - 301
22	TRAFFIC CONTROL DEVICES FOR HIGHWAY UNDER CONSTRUCTION - IV	RS - 105	78	ASPHALT CURB & DRAIN CHUTE FOR EMBANKMENT PROTECTION	DS - 302
23	OVERHEAD SIGN BOARD DETAILS	RS - 106	79	MANHOLE DETAILS - I	DS - 401
24	STEEL FRAME FOR MOUNTING OVERHEAD SIGN TYPE I SPAN 20.00 M. MAX.	RS - 107	80	MANHOLE DETAILS - II	DS - 402
25	STEEL FRAME FOR MOUNTING OVERHEAD SIGN TYPE II SPAN 17.00 - 28.00 M.	RS - 108	81	CATCH BASIN	DS - 403
26	STEEL POLE FOR OVERHANGING TRAFFIC SIGN FOR SIGN PLATES NOT MORE THAN 52,800 SQ. CM.	RS - 109	82	MEDIAN DROP INLET TYPE I	DS - 404
27	STEEL POLE FOR OVERHANGING TRAFFIC SIGN FOR SIGN PLATES NOT MORE THAN 108,000 SQ. CM. - I	RS - 110	83	MEDIAN DROP INLET TYPE II	DS - 405
28	STEEL POLE FOR OVERHANGING TRAFFIC SIGN FOR SIGN PLATES NOT MORE THAN 108,000 SQ. CM. - II	RS - 111	84	R.C. DITCH DETAILS - I	DS - 406
29	STEEL POLE FOR TWO LEGS OVERHANGING TRAFFIC SIGN FOR SIGN PLATES NOT MORE THAN 2x52,800 SQ. CM. - I	RS - 112	85	R.C. DITCH DETAILS - II	DS - 407
30	STEEL POLE FOR TWO LEGS OVERHANGING TRAFFIC SIGN FOR SIGN PLATES NOT MORE THAN 2x52,800 SQ. CM. - II	RS - 113	86	DETAIL OF INLET AND MANHOLE TYPE "E" & BOX CULVERT (OPEN TYPE)	DS - 501
31	INSTALLATION OF OVERHEAD SIGN AND FRAME TYPE II & TRAFFIC SIGN AND FRAME ON BARRIERS	RS - 114	87	DETAIL OF INLET AND MANHOLE TYPE "F" & BOX CULVERT (CLOSE TYPE)	DS - 502
32	STEEL FRAME FOR MOUNTING OVERHEAD SIGNS AT BRIDGE DECK	RS - 115	88	DROP INLET & U-DITCH FOR BRIDGE DRAINAGE	DS - 503
33	PERMANENT TIMBER BARRICADE FOR T-INTERSECTION	RS - 201	89	CLEARING AND GRUBBING	MD - 101
34	W-BEAM GUARDRAIL	RS - 301	90	CONNECTION ROAD DETAILS	MD - 201
35	W-BEAM GUARDRAIL INSTALLATION AND W-BEAM GUARDRAIL APPROACH TYPE I	RS - 302	91	SIDE ROAD & PRIVATE DRIVE DETAILS	MD - 202
36	W-BEAM GUARDRAIL INSTALLATION AND W-BEAM GUARDRAIL APPROACH TYPE II	RS - 303	92	BUS STOP LAYOUT	MD - 301
37	GUIDE POST INSTALLATION	RS - 401	93	BUS STOP SHELTER TYPE A	MD - 302
38	CONCRETE BARRIER TYPE I	RS - 501	94	BUS STOP SHELTER TYPE B	MD - 303
39	CONCRETE BARRIER TYPE II	RS - 502	95	BUS STOP SHELTER TYPE C-I	MD - 304
40	CONCRETE BARRIER TYPE I FOR DEEP CUT AND HIGH FILL SECTION	RS - 503	96	BUS STOP SHELTER TYPE C-II	MD - 305
41	PRE-CAST CONCRETE BARRIER TYPE I	RS - 504	97	BUS STOP SHELTER TYPE D-I	MD - 306
42	PRE-CAST CONCRETE BARRIER TYPE II	RS - 505	98	BUS STOP SHELTER TYPE D-II	MD - 307
43	CONCRETE BARRIER AT BRIDGE APPROACH	RS - 506	99	BUS STOP SHELTER TYPE E-I	MD - 308
44	IMPLEMENT OF CABLE GUARDRAIL	RS - 507	100	BUS STOP SHELTER TYPE E-II	MD - 309
45	CONCRETE CURB & CURB AND GUTTER DETAILS	RS - 508	101	BUS STOP SHELTER TYPE F-I	MD - 310
46	ROAD STUD	RS - 601	102	BUS STOP SHELTER TYPE F-II	MD - 311
47	MARKING DETAILS - I	RS - 602	103	RIGHT-OF-WAY MONUMENT & BENCH MARK	MD - 401
48	MARKING DETAILS - II	RS - 603	104	KILOMETER STONE	MD - 402
49	RETAINING WALL - I	RS - 701	105	PLANTING SPACE ON SIDEWALK	MD - 501
50	RETAINING WALL - II	RS - 702	106	PLANTING AND GRASSING IN MEDIANS	MD - 502
51	ROAD SIGNS AT MEDIAN OPENING & EXIT AND ENTRANCE	RS - 801	107	MISCELLANEOUS LIGHTING DETAILS	MD - 601
52	ROAD SIGNS AT INTERSECTION	RS - 802	108	FENCING DETAILS	MD - 701
53	SODDING DETAILS	SP - 101	109	CONCRETE PAVING BLOCK	MD - 801
54	CONCRETE SLOPE PROTECTION	SP - 102	110	CONCRETE PAVEMENT REPAIRING	MD - 802
55	SHOTCRETE BACK SLOPE AND SIDE SLOPE PROTECTION	SP - 103	111	METHOD OF TRANSPLANTING TREE	MD - 901
56	SACKED-CONCRETE SLOPE PROTECTION	SP - 104	112	MEDIAN OPENING	MD - 902
			113	SPECIAL U-TURN DETAILS	MD - 903

PART 2

LIST OF STANDARD DRAWINGS FOR STRUCTURAL WORK

SHEET NO.	TITLE	DRAWING NO.		SHEET NO.	TITLE	DRAWING NO.	
		Original	Revised			Original	Revised
114	RC SLAB BRIDGE, BRIDGE REINF. PLAN, SECTIONS AND DETAILS	3AD5 - 106 - 14/1A	ST - 01	163	POST-TENSIONED BOX GIRDER 20.00 M. SPAN PRESTRESSED CABLE ARRANGEMENT	5BD20 S/2	-
115	7.00 M. ROADWAY WIDTH SLAB BRIDGE SPREAD FOOTING PIER DETAILS	3AD5 - 106 - 14/4	ST - 02	164	POST-TENSIONED BOX GIRDER 20.00 M. SPAN PLANS, SECTIONS AND DETAILS	5BD 20 S/3	-
116	7.00 M. ROADWAY WIDTH SLAB BRIDGE SPREAD FOOTING ABUTMENT DETAILS	3AD5 - 106 - 14/4a	ST - 03	165	PRE-TENSIONED BOX GIRDER 20.00 M. SPAN PLANS, SECTION AND DETAILS SECTIONS AND DETAIL	5BD 20 S/4	-
117	7.00 M. ROADWAY WIDTH SLAB BRIDGE PILE BENT AND ABUTMENT DETAILS	3AD5 - 106 - 14/5	ST - 04	166	0° - 50° SKEW PC BOX GIRDER BRIDGE PILE FOOTING PIERS, PILING PLANS	5BD 20 - 10 - 614/1	-
118	8.00 M. ROADWAY WIDTH SLAB BRIDGE SPREAD FOOTING PIER DETAILS	3AD5 - 106 - 14/6	ST - 05	167	0° - 50° SKEW PC BOX GIRDER BRIDGE PILE FOOTING PIER DETAILS	5BD 20 - 10 - 614/2	-
119	8.00 M. ROADWAY WIDTH SLAB BRIDGE SPREAD FOOTING ABUTMENT DETAILS	3AD5 - 106 - 14/6a	ST - 06	168	0° - 50° SKEW PC BOX GIRDER BRIDGE PIER REINFORCING AND SKIRTING DETAILS	5BD 20 - 10 - 614/3	-
120	8.00 M. ROADWAY WIDTH SLAB BRIDGE PILE BENT AND ABUTMENT DETAILS	3AD5 - 106 - 14/7	ST - 07	169	0° - 50° SKEW PC BOX GIRDER BRIDGE SPREAD AND PILE FOOTING PIER DETAILS	5BD 20 - 10 - 614/4	-
121	9.00 M. ROADWAY WIDTH SLAB BRIDGE SPREAD FOOTING PIER DETAILS	3AD5 - 106 - 14/17	ST - 08	170	0° - 50° SKEW PC BOX GIRDER BRIDGE PILE REINFORCING AND SKIRTING DETAILS	5BD 20 - 10 - 614/5	-
122	9.00 M. ROADWAY WIDTH SLAB BRIDGE SPREAD FOOTING ABUTMENT DETAILS	3AD5 - 106 - 14/17a	ST - 09	171	0° - 30° SKEW PC GIRDER BRIDGE GIRDER ARRANGEMENT AND DETAILS	3BD 5 - 106 - 14/1a	PT - 01
123	9.00 M. ROADWAY WIDTH SLAB BRIDGE PILE BENT AND ABUTMENT DETAILS	3AD5 - 106 - 14/18	ST - 10	172	PRESTRESSED CONCRETE GIRDER 9 3/8" - 7" WIRE STRAND ARRANGEMENT	3AD5 - 106 - 14/1b	PT - 02
124	10.00 M. ROADWAY WIDTH SLAB BRIDGE SPREAD FOOTING PIER DETAILS	3AD5 - 106 - 14/19	ST - 11	173	0° - 30° SKEW PC PLANK GIRDER, BRIDGE GIRDER ARRANGEMENT AND DETAILS	3AD5 - 106 - 14/1c	PT - 03
125	10.00 M. ROADWAY WIDTH SLAB BRIDGE SPREAD FOOTING ABUTMENT DETAILS	3AD5 - 106 - 14/19a	ST - 12	174	PRESTRESSED CONCRETE GIRDER DRAPED TENDON ARRANGEMENT	3APD5 - 106 - 14/1d	PT - 04
126	10.00 M. ROADWAY WIDTH SLAB BRIDGE PILE BENT AND ABUTMENT DETAILS	3AD5 - 106 - 14/20	ST - 13	175	6.00 - 10.00 M. SPAN MULTI-BEAM BRIDGE	APC - 1	PT - 05
127	11.00 M. ROADWAY WIDTH SLAB BRIDGE SPREAD FOOTING PIER DETAILS	3AD5 - 106 - 14/21	ST - 14	176	6.00 - 10.00 M. SPAN MULTI-BEAM BRIDGE PRESTRESSED CONCRETE GIRDER	APC - 2	PT - 06
128	11.00 M. ROADWAY WIDTH SLAB BRIDGE SPREAD FOOTING ABUTMENT DETAILS	3AD5 - 106 - 14/21a	ST - 15	177	0.35 x 0.35 M. RC. PILE REINFORCEMENT DETAILS	3/14	-
129	11.00 M. ROADWAY WIDTH SLAB BRIDGE PILE BENT AND ABUTMENT DETAILS	3AD5 - 106 - 14/22	ST - 16	178	BRIDGE APPROACH SLAB AND POROUS BACKFILL MATERIALS	AP - 3	-
130	12.00 M. ROADWAY WIDTH SLAB BRIDGE SPREAD FOOTING PIER DETAILS	3AD5 - 106 - 14/8	ST - 17	179	BEARING UNIT AT BRIDGE END ON SOFT CLAY	S2/22	-
131	12.00 M. ROADWAY WIDTH SLAB BRIDGE SPREAD FOOTING ABUTMENT DETAILS	3AD5 - 106 - 14/8a	ST - 18	180	BEARING UNIT AT BRIDGE END ON SOFT CLAY, RIGID PAVEMENT	S2/23	-
132	12.00 M. ROADWAY WIDTH SLAB BRIDGE PILE BENT AND ABUTMENT DETAILS	3AD5 - 106 - 14/9	ST - 19	181	RAILING POST AND RAILING DETAILS	3AD5 - 106 - 14/26	MS - 01
133	13.00 M. ROADWAY WIDTH SLAB BRIDGE SPREAD FOOTING PIER DETAILS	3AD5 - 106 - 14/23	ST - 20	182	0.40 x 0.40 M. RC. PILE, PILE CAPACITY AND REINFORCEMENT DETAILS	3R/1	MS - 02
134	13.00 M. ROADWAY WIDTH SLAB BRIDGE SPREAD FOOTING ABUTMENT DETAILS	3AD5 - 106 - 14/23a	ST - 21	183	0.40 x 0.40 M. PC. PILE, PILE CAPACITY AND REINFORCEMENT DETAILS	3P/1	MS - 03
135	13.00 M. ROADWAY WIDTH SLAB BRIDGE PILE BENT AND ABUTMENT DETAILS	3AD5 - 106 - 14/24	ST - 22	184	CONCRETE SLOPE PROTECTION	-	MS - 04
136	14.00 M. ROADWAY WIDTH SLAB BRIDGE SPREAD FOOTING PIER DETAILS	3AD5 - 106 - 14/10	ST - 23	185	ABUTMENT PROTECTOR FOR EMBANKMENT < 6.00M. PLAN, ELEVATION AND SECTIONS	AP - 2	MS - 11
137	14.00 M. ROADWAY WIDTH SLAB BRIDGE SPREAD FOOTING ABUTMENT DETAILS	3AD5 - 106 - 14/10a	ST - 24	186	RIGID FRAME RC. BOX CULVERT; PLAN, ELEVATIONS AND SECTIONS	-	BC - 01
138	14.00 M. ROADWAY WIDTH SLAB BRIDGE PILE BENT AND ABUTMENT DETAILS	3AD5 - 106 - 14/11	ST - 25	187	RIGID FRAME RC. BOX CULVERT; TABLE OF REINFORCEMENT	-	BC - 02
139	0° - 30° SKEW RC. SLAB BRIDGE, BRIDGE REINF. PLAN, SECTIONS AND DETAILS	3BD5 - 106 - 14/1A	ST - 26	188	RC. SIMPLE SPAN BOX CULVERT; PLAN ELEVATIONS AND SECTIONS	-	BC - 03
140	0° - 30° SKEW RC. SLAB BRIDGE SPREAD FOOTING PIER DETAILS	3BD5 - 106 - 14/2	ST - 27	189	RC. HEADWALL FOR BOX CULVERT; DIMENSION, REINF. AND DETAILS	-	BC - 04
141	0° - 30° SKEW RC. SLAB BRIDGE SPREAD FOOTING ABUTMENT DETAILS	3BD5 - 106 - 14/2a	ST - 28	190	PRECAST BOX CULVERT DEPTH OF FILL < 0.60M. PLAN, ELEVATION AND SECTIONS	7PB/1	BC - 05
142	0° - 30° SKEW RC. SLAB BRIDGE PILE BENT AND ABUTMENT DETAILS	3BD5 - 106 - 14/3	ST - 29	191	PRECAST BOX CULVERT DEPTH OF FILL < 0.60M. REINFORCEMENT AND DETAILS	7PB/2	BC - 06
143	0° - 30° SKEW RC. SLAB BRIDGE WALL BRACING PIER DETAILS	3BD5 - 106 - 14/4	ST - 30	192	PRECAST BOX CULVERT DEPTH OF FILL > 0.60M. PLAN, ELEVATION AND SECTIONS	7PB/3	BC - 07
144	0° - 30° SKEW RC. SLAB BRIDGE WALL BRACING PILE BENT DETAILS	3BD5 - 106 - 14/5	ST - 31	193	PRECAST BOX CULVERT DEPTH OF FILL > 0.60M. REINFORCEMENT AND DETAILS	7PB/4	BC - 08
145	0° - 30° SKEW RC. SLAB BRIDGE WALL BRACING PIER ON BED ROCK DETAILS	3BD5 - 106 - 14/6	ST - 32	194	RIGID FRAME RC. BOX CULVERT; PLAN, ELEVATION AND SECTION	7B/7	BC - 01A
146	0° - 30° SKEW RC. SLAB BRIDGE SPREAD FOOTING PIER ON BED ROCK DETAILS	3BD5 - 106 - 14/7	ST - 33	195	RIGID FRAME RC. BOX CULVERT; TABLE OF REINFORCEMENT	7B/7a	BC - 02A
147	6.00 M. ROADWAY WIDTH SLAB BRIDGE SPREAD FOOTING PIER DETAILS	3AD5 - 106 - 14/2	ST - 34	196	RC. SIMPLE SPAN BOX CULVERT; PLAN, ELEVATION AND SECTION	7B/8	BC - 03A
148	6.00 M. ROADWAY WIDTH SLAB BRIDGE SPREAD FOOTING ABUTMENT DETAILS	3AD5 - 106 - 14/2a	ST - 35	197	RC. HEADWALL FOR BOX CULVERT; DIMENSION, REINF. AND DETAILS	7B/8	BC - 04A
149	6.00 M. ROADWAY WIDTH SLAB BRIDGE PILE BENT AND ABUTMENT DETAILS	3AD5 - 106 - 14/3	ST - 36	198	CANTILEVER RETAINING WALL 6.00 M. MAX. HIGH DETAILS AND SPECIFICATIONS	ABT267 - 17/8	-
150	13.50 M. ROADWAY WIDTH SLAB BRIDGE SPREAD FOOTING PIER DETAILS	3AD5 - 106 - 14/27	-	199	CANTILEVER RETAINING WALL 6.00 M. MAX. HIGH REINFORCEMENT DETAILS	ABT267 - 17/9	-
151	13.50 M. ROADWAY WIDTH SLAB BRIDGE SPREAD FOOTING ABUTMENT DETAILS	3AD5 - 106 - 14/27a	-	200	PEDESTRIAN BRIDGE OUTSIDE PIER FOR SPAN ≤ 16.00 M. (TYPE I)	PS - 01	-
152	13.50 M. ROADWAY WIDTH SLAB BRIDGE PILE BENT AND ABUTMENT DETAILS	3AD5 - 106 - 14/28	-	201	PEDESTRIAN BRIDGE OUTSIDE PIER FOR SPAN ≤ 16.00 M. (TYPE II)	PS - 02	-
153	17.00 M. ROADWAY WIDTH SLAB BRIDGE SPREAD FOOTING PIER DETAILS	3AD5 - 106 - 14/29	-	202	PEDESTRIAN BRIDGE OUTSIDE PIER FOR SPAN 16.01 - 21.00 M. (TYPE I)	PS - 03	-
154	17.00 M. ROADWAY WIDTH SLAB BRIDGE SPREAD FOOTING ABUTMENT DETAILS	3AD5 - 106 - 14/29a	-	203	PEDESTRIAN BRIDGE OUTSIDE PIER FOR SPAN 16.01 - 21.00 M. (TYPE II)	PS - 04	-
155	17.00 M. ROADWAY WIDTH SLAB BRIDGE PILE BENT AND ABUTMENT DETAILS	3AD5 - 106 - 14/30	-	204	PEDESTRIAN BRIDGE OUTSIDE PIER FOR SPAN 21.01 - 25.00 M. (TYPE I)	PS - 05	-
156	12.00 - 24.00 M. SPAN MULTI-BEAM BRIDGE PLAN, SECTIONS AND REINFORCEMENT DETAILS	APB - 1	-	205	PEDESTRIAN BRIDGE OUTSIDE PIER FOR SPAN 21.01 - 25.00 M. (TYPE II)	PS - 06	-
157	12.00 - 24.00 M. SPAN MULTI-BEAM BRIDGE PRESTRESSED CONCRETE GIRDER	APB - 2	-	206	PEDESTRIAN BRIDGE INSIDE PIER FOR SPAN ≤ 16.00 M.	PS - 07	-
158	12.00 - 24.00 M. SPAN MULTI-BEAM BRIDGE PILE BENT AND ABUTMENT DETAILS FOR ANY ROADWAY WIDTH	APB - 4	-	207	PEDESTRIAN BRIDGE INSIDE PIER FOR SPAN 16.01 - 21.00 M.	PS - 08	-
159	14.00 - 24.00 M. SPAN MULTI-BEAM BRIDGE 12.00 M. ROADWAY & CURB	APB - 7	-	208	PEDESTRIAN BRIDGE INSIDE PIER FOR SPAN 21.01 - 25.00 M.	PS - 09	-
160	PILE BENT AND SPREAD FOOTING WITH WALL BRACING, MAXIMUM HEIGHT 12.00 M. PRESTRESSED MULTI-BEAM CONCRETE BRIDGE FOR 8.00, 10.00, 12.00 AND 15.00 M. ROADWAY WIDTH 18.00 - 24.00 M. SPAN PILE FOOTING SHAPE AND REINFORCEMENT.	APB - 8	-	209	PEDESTRIAN BRIDGE STAIR DETAILS TYPE I	PS - 10	-
161	PILE BENT AND SPREAD FOOTING WITH WALL BRACING, MAXIMUM HEIGHT 12.00 M. PRESTRESSED MULTI-BEAM CONCRETE BRIDGE FOR 8.00, 10.00, 12.00 AND 15.00 M. ROADWAY WIDTH 18.00 - 24.00 M. SPAN TABLE OF REINFORCEMENT AND CONSTRUCTION DETAILS	APB - 9	-	210	PEDESTRIAN BRIDGE STAIR DETAILS TYPE II	PS - 11	-
162	0° - 50° SKEW PC BOX GIRDER BRIDGE 20.00 M. SPAN BRIDGE DECK PLAN, SECTIONS AND DETAILS	5BD 20S - 0° - 50°/1A	-	211	PRESTRESSED BRIDGE CONSTRUCTION SPECIFICATION AND MISCELLANEOUS DETAILS	PS - 12	-
				212	PRESTRESSED CONCRETE GIRDER FOR SPAN 21.01 - 25.00 M. (PC 8901)	PS - 13	-
				213	PRESTRESSED CONCRETE GIRDER FOR SPAN 16.01 - 21.00 M. (PC 8901)	PS - 14	-
				214	REINFORCED CONCRETE GIRDER FOR SPAN 14.00 M. (PC 8903)	PS - 15	-
				215	REINFORCED CONCRETE GIRDER FOR SPAN ≤ 15.00 M. (RC 920/1)	PS - 16	-