



TURNOUT NO.	SWITCH AREA							CLOSURE AREA										FROG AREA												
	POINT GEOMETRY	POINT LENGTH	LEAD	SWITCH ANGLE	BEND TO POINT OF SWITCH	HEEL SPREAD	HS TO BC ON CURVE CLOSURE RAIL	DISTANCE AND OFFSET FOR CLOSURE RAIL ON GAUGE LINES										DISTANCE FROM P.S. TO P.I.	RADIUS ON P. OF TURNOUT	DEGREE OF CURVE ON P. OF T/O	LENGTH OF STRAIGHT CLOSURE RAIL	LENGTH OF CURVED CLOSURE RAIL	FROG ANGLE	FROG TOE SPREAD	FROG HEEL SPREAD	LENGTH OF FROG	TOE OF FROG TO 1/2" POINT	1/2" POINT TO HEEL OF FROG	TOE OF FROG TO END OF CURVE	LENGTH OF GAUGE RAIL
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26				
*10 85LB	16'-6"	16'-6"	8'-6 1/2"	1°42'01"	1'-0 5/8"	6 1/4"	6'-4 1/2"	35'-10 1/2"	1'-2 1/2"	48'-10 1/2"	1'-11 1/4"	6'-10 1/2"	2'-10 3/4"	34'-0 1/2"	740.79	7°44'25"	58'-5"	58'-7"	5°43'29"	7 7/16"	1'-0 11/32"	16'-6"	6'-7 1/2"	9'-10 1/2"	0"	11'-0"	15			
*10 100LB	16'-6"	16'-6"	8'-6 1/2"	1°42'01"	1'-0 5/8"	6 1/4"	6'-4 1/2"	35'-10 1/2"	1'-2 1/2"	48'-10 1/2"	1'-11 1/4"	6'-10 1/2"	2'-10 3/4"	34'-0 1/2"	740.79	7°44'25"	58'-5"	58'-7"	5°43'29"	7 7/16"	1'-0 11/32"	16'-6"	6'-7 1/2"	9'-10 1/2"	0"	11'-0"	15			
*10 115LB	16'-6"	38'-5"	8'-6 1/2"	1°42'01"	1'-0 5/8"	6 1/4"	6'-4 1/2"	35'-10 1/2"	1'-2 1/2"	48'-10 1/2"	1'-11 1/4"	6'-10 1/2"	2'-10 3/4"	34'-0 1/2"	740.79	7°44'25"	36'-6"	36'-8"	5°43'29"	10 11/32"	1'-5 1/16"	21'-4"	10'-2"	13'-10"	-3/4"	15'-0"	15			
*10 132LB	16'-6"	16'-6"	8'-6 1/2"	1°42'01"	1'-0 5/8"	6 1/4"	6'-4 1/2"	35'-10 1/2"	1'-2 1/2"	48'-10 1/2"	1'-11 1/4"	6'-10 1/2"	2'-10 3/4"	34'-0 1/2"	740.79	7°44'25"	58'-5"	58'-7"	5°43'29"	7 7/16"	1'-0 15/16"	17'-0"	6'-7 1/2"	10'-4 1/2"	0"	11'-0"	15			
*10 136LB	16'-6"	38'-8"	8'-6 1/2"	1°42'01"	1'-0 5/8"	6 1/4"	6'-4 1/2"	35'-10 1/2"	1'-2 1/2"	48'-10 1/2"	1'-11 1/4"	6'-10 1/2"	2'-10 3/4"	34'-0 1/2"	740.79	7°44'25"	40'-4 1/2"	40'-5 29/32"	5°43'29"	10 3/32"	1'-4 15/32"	23'-0"	9'-8"	13'-4"	2'-4 7/16"	20'-9"	15			

TABLE FOR SPRING FROGS ONLY

TURNOUT NO.	LENGTH OF STRAIGHT CLOSURE RAIL	LENGTH OF CURVED CLOSURE RAIL	FROG ANGLE	FROG TOE SPREAD	FROG HEEL SPREAD	LENGTH OF FROG	TOE OF FROG TO 1/2" POINT	1/2" POINT TO HEEL OF FROG	TOE OF FROG TO END OF CURVE
	17	18	19	20	21	22	23	24	25
*10 115LB	58'-5"	58'-7"	5°43'29"	7 17/32"	1'-2 7/8"	27'-7"	15'-7"	12'-0"	-8'-11 3/4"

TABLE FOR S.G.M. FROGS ONLY

TURNOUT NO.	LENGTH OF STRAIGHT CLOSURE RAIL	LENGTH OF CURVED CLOSURE RAIL	FROG ANGLE	FROG TOE SPREAD	FROG HEEL SPREAD	LENGTH OF FROG	TOE OF FROG TO 1/2" POINT	1/2" POINT TO HEEL OF FROG	TOE OF FROG TO END OF CURVE
	17	18	19	20	21	22	23	24	25
*10 85LB	62'-5 1/2"	62'-7 1/2"	5°43'29"	3 3/32"	7 7/32"	8'-7"	2'-7"	6'-0"	+4'-0 1/2"
*10 100LB	62'-2 1/2"	62'-4 1/2"	5°43'29"	2 29/32"	8 9/32"	9'-4"	2'-10"	6'-6"	+3'-9 1/2"
*10 115LB	61'-3 1/2"	61'-5 1/2"	5°43'29"	4"	9 21/32"	11'-4 1/2"	3'-9"	7'-7 1/2"	+2'-10 13/16"
*10 132LB	61'-3 1/2"	61'-5 1/2"	5°43'29"	4"	9 21/32"	11'-4 1/2"	3'-9"	7'-7 1/2"	+2'-10 1/2"
*10 136LB	61'-3 1/2"	61'-5 1/2"	5°43'29"	4"	9 21/32"	11'-4 1/2"	3'-9"	7'-7 1/2"	+2'-10 1/2"

LEGEND

- P.S. = POINT OF SWITCH
- P.A. = POINT ANGLE
- S.A. = SWITCH ANGLE
- H.S. = HEEL OF SWITCH
- P.C.C. = POINT CHANGE OF CURVE
- B.C. = BEGINNING OF CURVE
- E.C. = END OF CURVE
- P.I. = POINT OF INTERSECTION
- T.F. = TOE OF FROG
- H.F. = HEEL OF FROG
- P.F. = POINT OF FROG
- T.P. = THEORETICAL POINT

METRIC CONVERSION: 1 inch=25.4mm, 1 foot=304.8mm

No.	18/07/27	ADDED IMPERIAL TO METRIC CONVERSION NOTE	By Approved
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Standard / GEOMETRY FOR NO. 10 TURNOUTS

Drawn RFP Checked RP Approved *[Signature]* VP Engineering & Asset Management



Date SEPT 15/2017 Plan Number GTS-0002 Rev 1