

BILL OF MATERIALS

LINE NO.	QTY.	DESCRIPTION	SIZE	MATERIAL (G40.21-M-300W U/N)	REMARKS
1	1	7.5 m TRAFFIC SIGNAL ARM (#58516)			
2	1	OCTAGONAL SECTION SHAFT	300 A/F-100 A/F x 4.763		
3	1	FLANGE PLATE	25 x 457 x 810	ASTM A325	SEE FLANGE BOLT DETAIL B
4	8	FLANGE BOLTS	25 DIA. x 100	ASTM A325	SEE DETAIL C RE-TAP AFTER GALVANIZING
5	2	HALF COUPLING	46.0 O.D. x 3.40 x 44	ASTM A105 - 3000 lb	SEE DETAIL C RE-TAP AFTER GALVANIZING
6	1	TENON PIPE	60.3 O.D. x 3.91 x 250	SCH. 40, ASTM A53 GR.B	
7	1	TENON PIPE	12 x 140 DIA.		
8	1	TENON PIPE	6 x 40		
9	1	BACK-UP STRIP PLATE	6 x 40		
10	1	9.0 m TRAFFIC SIGNAL ARM (#58517)			
11	1	OCTAGONAL SECTION SHAFT	300 A/F-125 A/F x 4.763		
12	1	FLANGE PLATE	25 x 457 x 810		
13	8	FLANGE BOLTS	25 DIA. x 100	ASTM A325	SEE FLANGE BOLT DETAIL B
14	2	HALF COUPLING	46.0 O.D. x 3.40 x 44	ASTM A105 - 3000 lb	SEE DETAIL C RE-TAP AFTER GALVANIZING
15	1	TENON PIPE	60.3 O.D. x 3.91 x 250	SCH. 40, ASTM A53 GR.B	
16	1	TENON PIPE	12 x 170 DIA.		
17	1	BACK-UP STRIP PLATE	6 x 40		
18	1	BACK-UP STRIP PLATE	6 x 40		
19	1	10.5 m TRAFFIC SIGNAL ARM (#58518)			
20	1	OCTAGONAL SECTION SHAFT	300 A/F-125 A/F x 4.763		
21	1	FLANGE PLATE	25 x 457 x 810		
22	8	FLANGE BOLTS	25 DIA. x 100	ASTM A325	SEE FLANGE BOLT DETAIL B
23	2	HALF COUPLING	46.0 O.D. x 3.40 x 44	ASTM A105 - 3000 lb	SEE DETAIL C RE-TAP AFTER GALVANIZING
24	1	TENON PIPE	60.3 O.D. x 3.91 x 250	SCH. 40, ASTM A53 GR.B	
25	1	TENON PIPE	12 x 170 DIA.		
26	1	BACK-UP STRIP PLATE	6 x 40		
27	1	15.0 m TRAFFIC SIGNAL ARM (#58515)			
28	1	OCTAGONAL SECTION SHAFT	380 A/F-150 A/F x 6.350		
29	6	FLANGE BOLTS	25 DIA. x 100	ASTM A325	SEE FLANGE BOLT DETAIL B
30	2	HALF COUPLING	46.0 O.D. x 3.40 x 44	ASTM A105 - 3000 lb	SEE DETAIL C RE-TAP AFTER GALVANIZING
31	1	TENON PIPE	60.3 O.D. x 3.91 x 250	SCH. 40, ASTM A53 GR.B	
32	1	TENON PIPE	12 x 192 DIA.		
33	1	FLANGE PLATE	25 x 457 x 810		
34	1	BACK-UP STRIP PLATE	6 x 40		
35	1	BACK-UP STRIP PLATE	6 x 40		FOR BUTT JOINT
36	1	BACK-UP STRIP PLATE	6 x 40		

- NOTES:**
1. MATERIALS EXCEPT STAINLESS STEEL ITEMS SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A123-06 (PLUS LATEST REVISIONS) WITH NET RETENTION OF 610 g/m²
 2. PROVIDE 'RAISED' STOCK CODE NUMBER WITH WELDING ELECTRODE.
 3. PROVIDE 'RAISED' 'T' ON TOP OF ARM NEAR FLANGE PLATE USING WELDING ELECTRODE.
 4. SHIP WITH BOLTS C/W NUTS AND WASHERS IN FLANGE.
 5. GRIND ALL SHARP POINTS AND EDGES.
 6. TO BE USED WITH HEAVY SERIES COMBINATION CANTILEVER VERTICAL SHAFT (E-18 W).

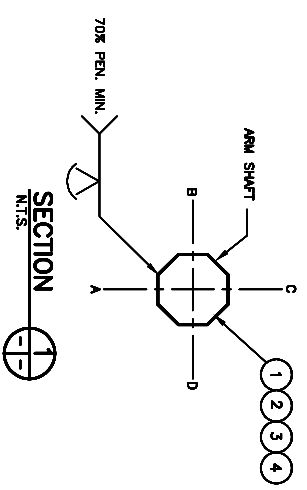
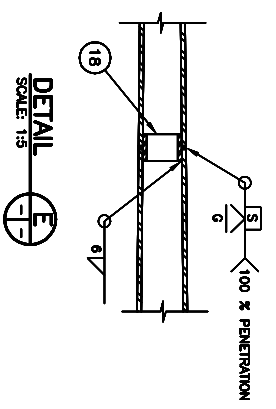
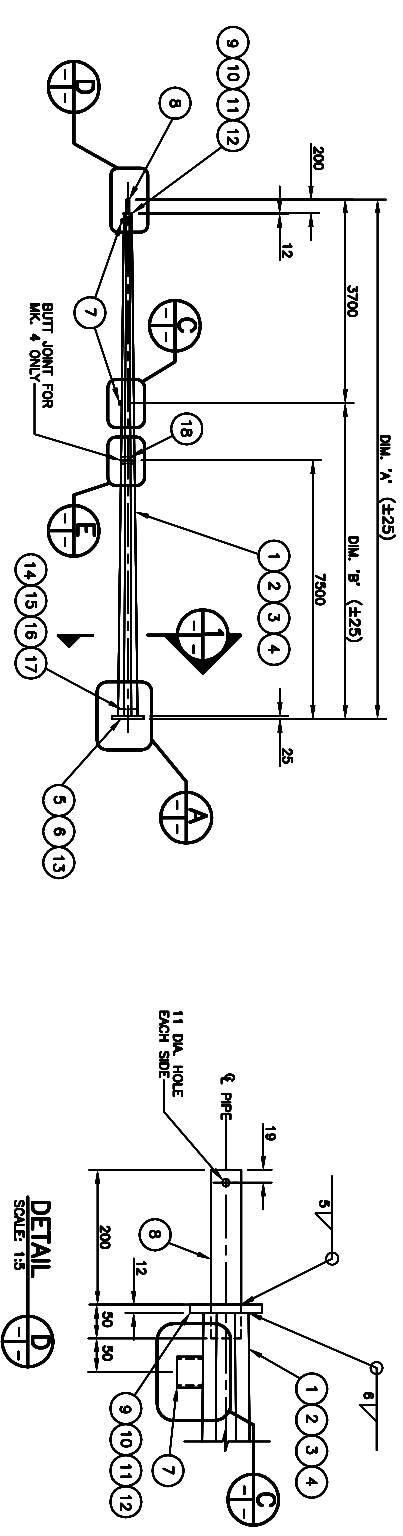
TRAFFIC SIGNAL STRUCTURE

HEAVY SERIES
COMBINATION CANTILEVER
7.5 m, 9.0 m, 10.5 m, AND 15.0 m
TRAFFIC SIGNAL ARMS

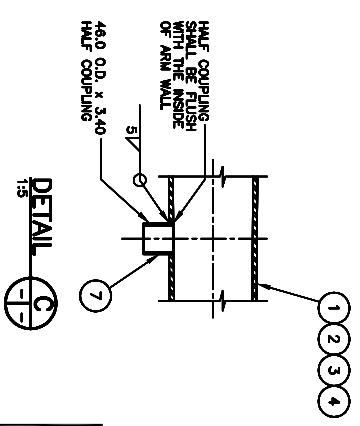
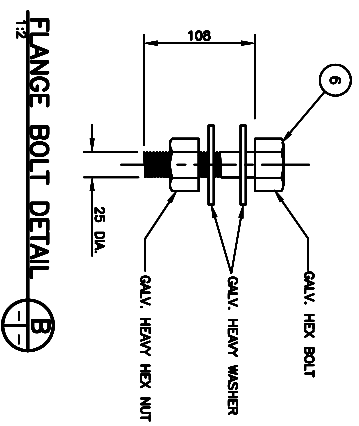
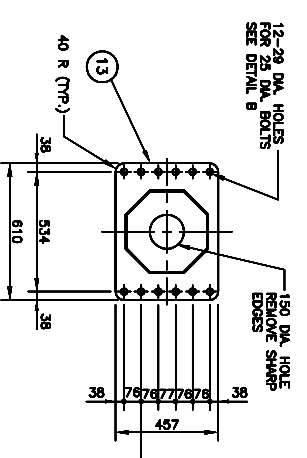
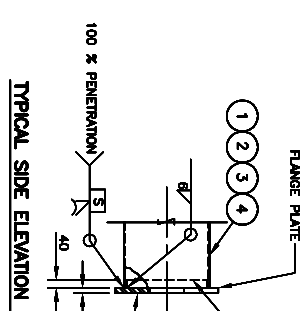
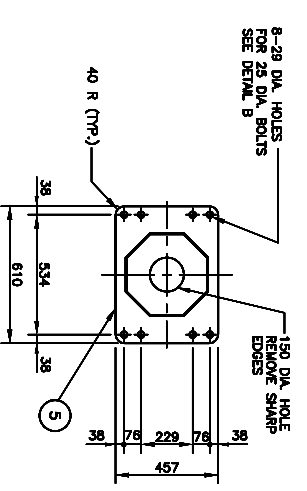


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BY: _____

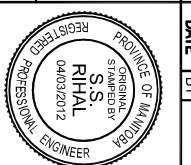
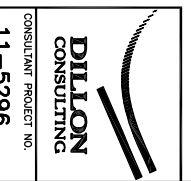
DESIGN	BY: _____	DATE	_____
CHECKED	BY: _____	DATE	_____
SCALE	AS SHOWN	COMPONENT NO.	E-018.S
CHECKER	SSR	SHEET NO.	S11



STOCK CODE	DESCRIPTION	DIM. 'A'	DIM. 'B'
58516	7.5m TRAFFIC SIGNAL EXTENSION ARM	7500	3800
58517	9.0m TRAFFIC SIGNAL EXTENSION ARM	9000	5300
58518	10.5m TRAFFIC SIGNAL EXTENSION ARM	10500	6800
58515	15.0m TRAFFIC SIGNAL EXTENSION ARM	15000	11300
58524	VERTICAL SHAFT SEE COMPONENT NO. SHEET NO. 29		SHAFT SHALL BE INTER-CHANGEABLE WITH & TRAFFIC SIGNAL ARM



REDUCED DRAWING
N.T.S.



Manitoba Infrastructure and Transportation
Traffic Engineering
DIRECTOR: _____
SCALE: AS SHOWN
COMPONENT NO.: E-018.S
SHEET NO.: S11