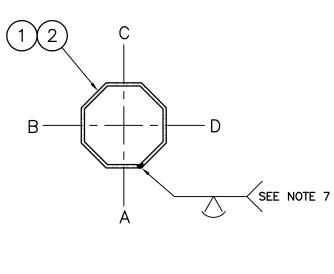
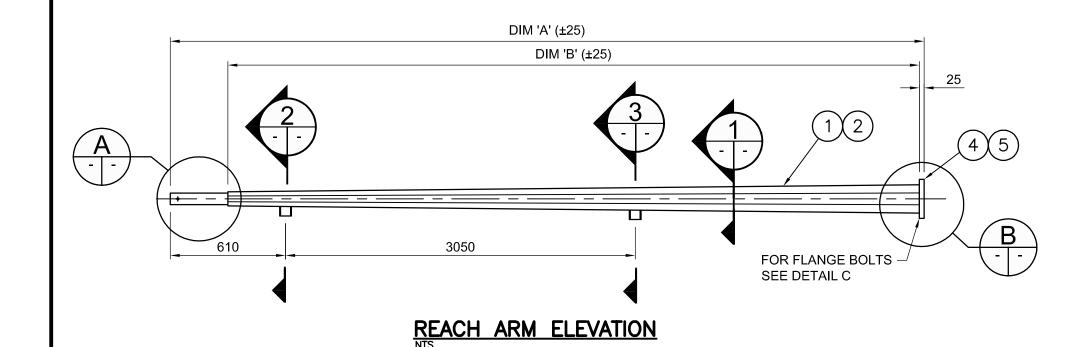
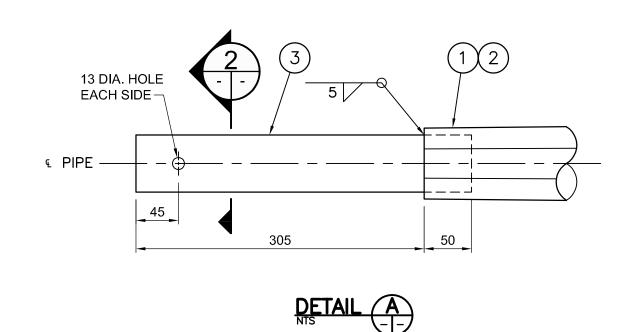
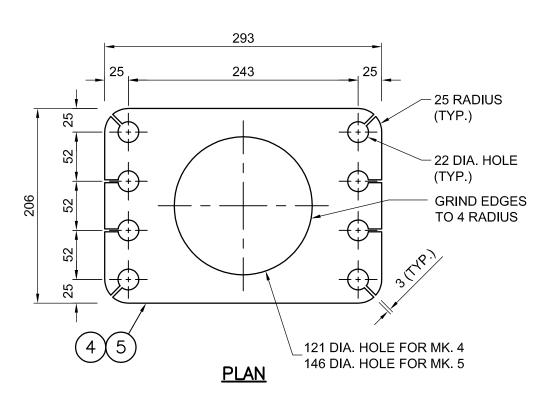
STRUCTURE TYPE CODE	DESCRIPTION	DIM. 'A'	DIM. 'B'
21	21' SIGNAL ARM	6579	6249
26	26' SIGNAL ARM	8103	7773

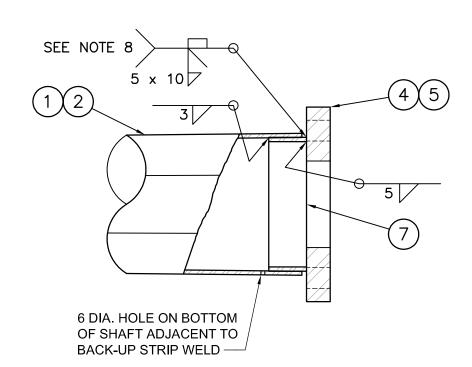






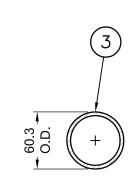


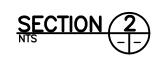


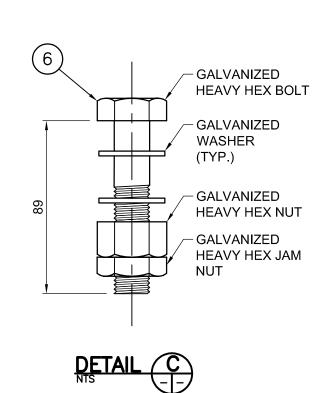


SECTION









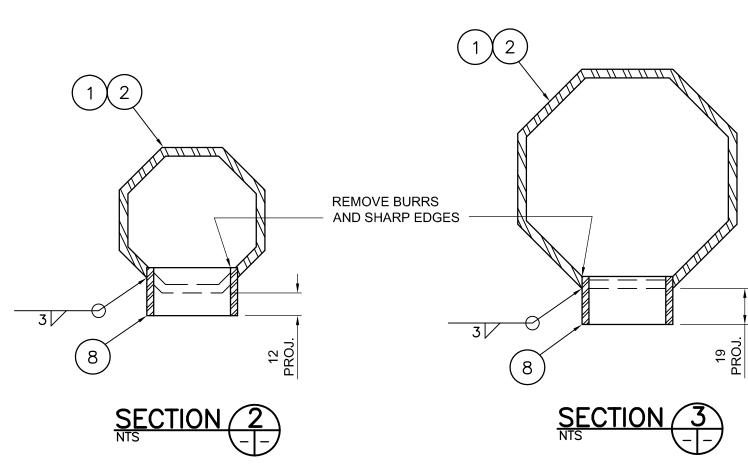
BILL OF MATERIALS

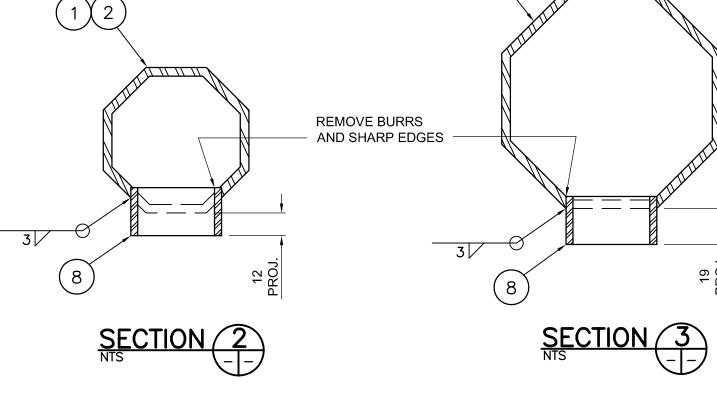
MK. NO.	QTY. REQ'D.	DESCRIPTION	SIZE	MATERIAL	REMARKS	LINE NO.
		6.401 m (21') SIGNAL ARM -	- 21			1
1	1	OCTAGONAL SECTION SHAFT	153 A/F - 73 A/F x 4.554	CSA G40.21 350W		2
3	1	PIPE TENON	60.3 O.D. x 3.91 x 355	ASTM A53 GR. B SCH. 40		3
4	1	FLANGE PLATE	25 × 206 × 293	CSA G40.21 300W		4
6	8	FLANGE BOLTS	19 (3/4") DIA. × 89	ASTM A325	SEE DETAIL C	5
7	1	BACK-UP STRIP PLATE	4.554 x 40	CSA G40.21 350W		6
8	2	PIPE PENETRATION (1 1/2") C/W PLUG	48 O.D. X 25	ASTM A53 GR. B SCH. 40	REMOVE BURRS AND SHARP EDGES	7
						8
		7.925 m (26') SIGNAL ARM -	- 26			9
2	1	OCTAGONAL SECTION SHAFT	178 A/F - 73 A/F x 4.554	CSA G40.21 350W		10
3	1	PIPE TENON	60.3 O.D. x 3.91 x 355	ASTM A53 GR. B SCH. 40		11
5	1	FLANGE PLATE	25 x 206 x 293	CSA G40.21 300W		12
6	8	FLANGE BOLTS	19 (3/4") DIA. x 89	ASTM A325	SEE DETAIL C	13
7	1	BACK-UP STRIP PLATE	4.554 x 40	CSA G40.21 350W		14
8	2	PIPE PENETRATION (1 1/2") C/W PLUG	48 O.D. X 25	ASTM A53 GR. B SCH. 40	REMOVE BURRS AND SHARP EDGES	15

APPROXIMATE TOTAL MASS: 21' ARM - 94 kg 26' ARM - 126 kg

NOTES:

- 1. ALL MATERIALS, EXCEPT STAINLESS STEEL ITEMS, SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A123-09 (PLUS LATEST REVISIONS) WITH NET RETENTION OF 610 g/m².
- 2. PROVIDE RAISED IDENTIFICATION NUMBER WITH WELDING ELECTRODE AS PER SPECIFICATION, STRUCTURE TYPE CODE INDICATED IN TABLE THIS DRAWING.
- 3. SHIP WITH BOLTS C/W NUTS AND WASHERS IN FLANGE.
- 4. PROVIDE RAISED 'T' ON TOP OF ARM NEAR FLANGE PLATE USING WELDING ELECTRODE.
- 5. GRIND ALL SHARP POINTS AND EDGES.
- 6. TO BE USED WITH MEDIUM DUTY SHAFTS ONLY.
- LONGITUDINAL SEAM WELD SHALL HAVE 60% MINIMUM PENETRATION EXCEPT WITHIN 150 mm OF FLANGE PLATE SHALL BE COMPLETE PENETRATION.
- 8. EXTERIOR WELD JOINING ARM SHAFT TO FLANGE PLATE SHALL BE AN UNEQUAL LEG COMPLETE PENETRATION WELD WITH THE LONG LEG OF THE WELD ALONG THE ARM, TERMINATING AT 30° FROM THE ARM'S SURFACE.





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Certificate of Authorization			
Dillon Consulting Limited (MB)			
No. 1789 Date: <u>JAN. 14, 2013</u>	_		

REDUCED	_
IN.I	.5.
	REDUCED N.T

B.M. ELEV.				DESIGNED BY	CDW	'1.	ENGINEER'S SEAL
				DRAWN BY	JGW		ORIGINAL STAMPED BY
				CHECKED BY	SSR	DILLON	S.S. RIHAL JAN. 14, 2013
				APPROVED BY	_	CONSULTING	PROFESSION
3	REVISED BY DILLON CONSULTING	1/10/14	CDW		NITO	RELEASED FOR	
2	REVISED BY DILLON CONSULTING	7/25/13	CDW	HOR. SCALE	NTS	CONSTRUCTION	CONCULTANT DDG IFOT NUMBER
1	ISSUED BY DILLON CONSULTING	1/14/13	CDW	VERTICAL	NTS		CONSULTANT PROJECT NUMBER
NO.	REVISIONS	DATE	BY	DATE		DATE	12-5954

ENGINEER'S SEAL

Winnipeg

THE CITY OF WINNIPEG PUBLIC WORKS DEPARTMENT

21' & 26' TRAFFIC SIGNAL ARMS

SHEET CONSULTANT DRAWING NUMBER N/A