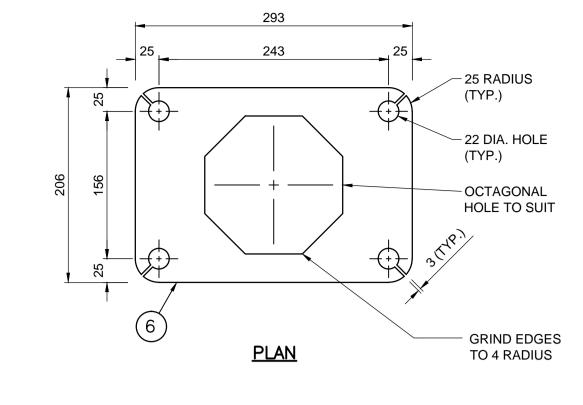
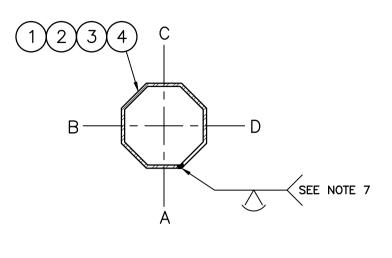
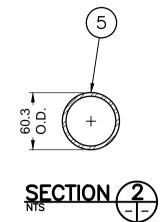
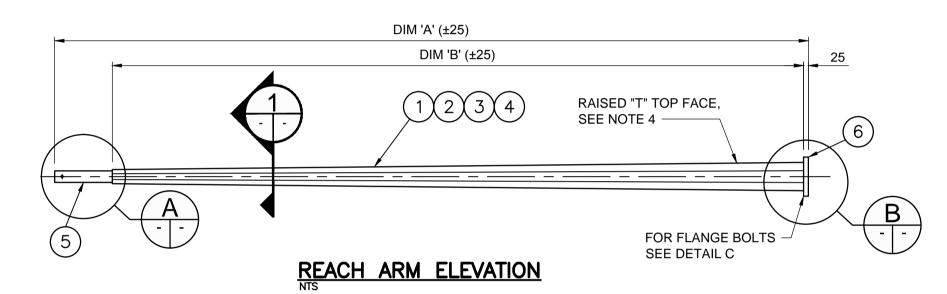
STRUCTURE TYPE CODE	DESCRIPTION	DIM. 'A'	DIM. 'B'
4	4' SIGNAL ARM	1415	1085
8	8' SIGNAL ARM	2633	2303
12	12' SIGNAL ARM	3853	3523
16	16' SIGNAL ARM	5072	4742

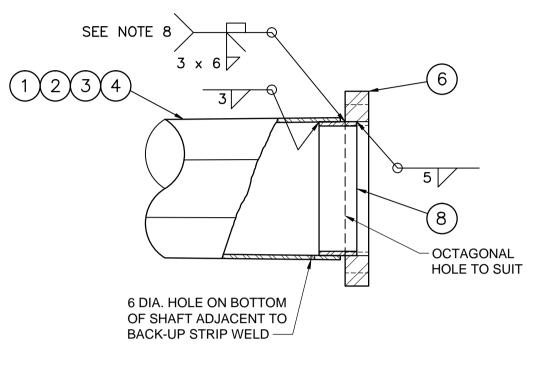






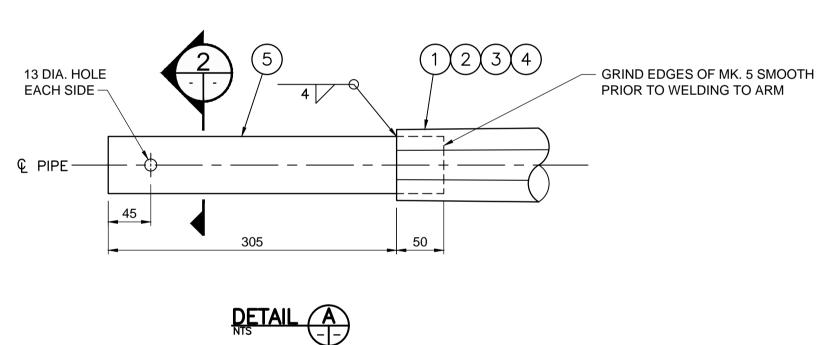


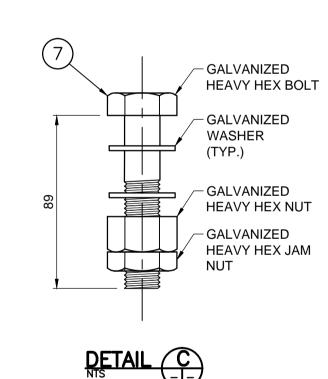




SECTION







BILL OF MATERIALS

MK. NO.	QTY. REQ'D.	DESCRIPTION	SIZE	MATERIAL	REMARKS	LINE NO.
		1.220 m (4') SIGNAL ARM -	4			1
1	1	OCTAGONAL SECTION SHAFT	114 A/F - 73 A/F x 3.038	CSA G40.21 350W		2
5	1	PIPE TENON	60.3 O.D. x 3.91 x 355	ASTM A53 GR. B SCH. 40		3
6	1	FLANGE PLATE	25 × 206 × 293	CSA G40.21 300W		4
7	4	FLANGE BOLTS	19 (3/4") DIA. x 89	ASTM A325	SEE DETAIL C	5
8	1	BACK-UP STRIP PLATE	4.554 x 40	CSA G40.21 350W		6
						7
		2.438 m (8') SIGNAL ARM - 8				8
2	1	OCTAGONAL SECTION SHAFT	114 A/F - 73 A/F x 3.038	CSA G40.21 350W		9
5	1	PIPE TENON	60.3 O.D. x 3.91 x 355	ASTM A53 GR. B SCH. 40		10
6	1	FLANGE PLATE	25 × 206 × 293	CSA G40.21 300W		11
7	4	FLANGE BOLTS	19 (3/4") DIA. x 89	ASTM A325	SEE DETAIL C	12
8	1	BACK-UP STRIP PLATE	4.554 × 40	CSA G40.21 350W		13
						14
		3.658 m (12') SIGNAL ARM -	12			15
3	1	OCTAGONAL SECTION SHAFT	133 A/F - 73 A/F x 3.038	CSA G40.21 350W		16
5	1	PIPE TENON	60.3 O.D. × 3.91 × 355	ASTM A53 GR. B SCH. 40		17
6	1	FLANGE PLATE	25 x 206 x 293	CSA G40.21 300W		18
7	4	FLANGE BOLTS	19 (3/4") DIA. x 89	ASTM A325	SEE DETAIL C	19
8	1	BACK-UP STRIP PLATE	4.554 × 40	CSA G40.21 350W		20
						21
		4.877 m (16') SIGNAL ARM - 16				22
4	1	OCTAGONAL SECTION SHAFT	146 A/F - 73 A/F x 3.038	CSA G40.21 350W		23
5	1	PIPE TENON	60.3 O.D. x 3.91 x 355	ASTM A53 GR. B SCH. 40		24
6	1	FLANGE PLATE	25 × 206 × 293	CSA G40.21 300W		25
7	4	FLANGE BOLTS	19 (3/4") DIA. x 89	ASTM A325	SEE DETAIL C	26
8	1	BACK-UP STRIP PLATE	4.554 × 40	CSA G40.21 350W		27
						28

APPROXIMATE TOTAL MASS: 4' ARM - 20 kg 8' ARM - 30 kg 12' ARM - 40 kg 16' ARM - 52 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 LIGHT AND MEDIUM DUTY SHAFTS.
- 7. 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.

Certificate of Authorization Dillon Consulting Limited (MB)

B.M ELE		DESIGNED BY	CDW	1		
				DRAWN BY	JGW	11/1
				CHECKED BY	SSR	
4	ISSUED BY DILLON CONSULTING	10/10/14		APPROVED BY	_	
2	REVISED BY DILLON CONSULTING REVISED BY DILLON CONSULTING	1/10/14 7/25/13	CDW	HOR. SCALE	NTS	REL CON
1	ISSUED BY DILLON CONSULTING	1/14/13	CDW	VERTICAL	NTS	

DATE BY

DATE

DILLON CONSULTING ELEASED FOR ONSTRUCTION CONSULTANT PROJECT NUMBER

DATE

ENGINEER'S SEAL ORIGINAL STAMPED BY C.D. WARD OCT. 10, 2014 Member 24456

12-5954

Winnipeg

THE CITY OF WINNIPEG PUBLIC WORKS DEPARTMENT

4', 8', 12', 16' TRAFFIC SIGNAL & PEDESTRIAN CORRIDOR ARMS CITY DRAWING NUMBER N/A CONSULTANT DRAWING NUMBER N/A

No. 1789 Date: OCT. 10, 2014

NO. REVISIONS

REDUCED DRAWING N.T.S.