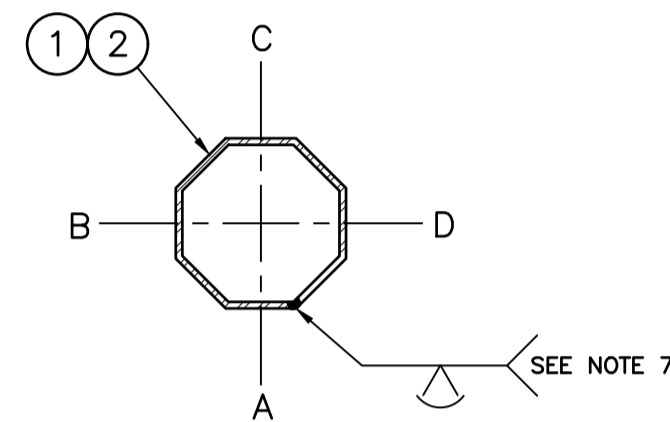
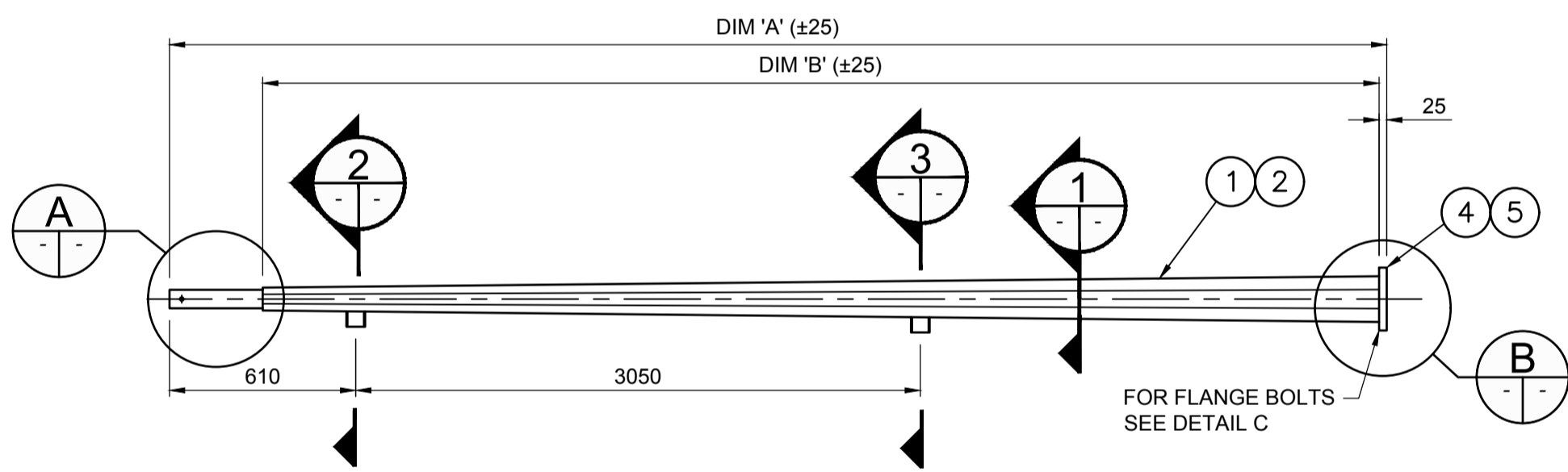


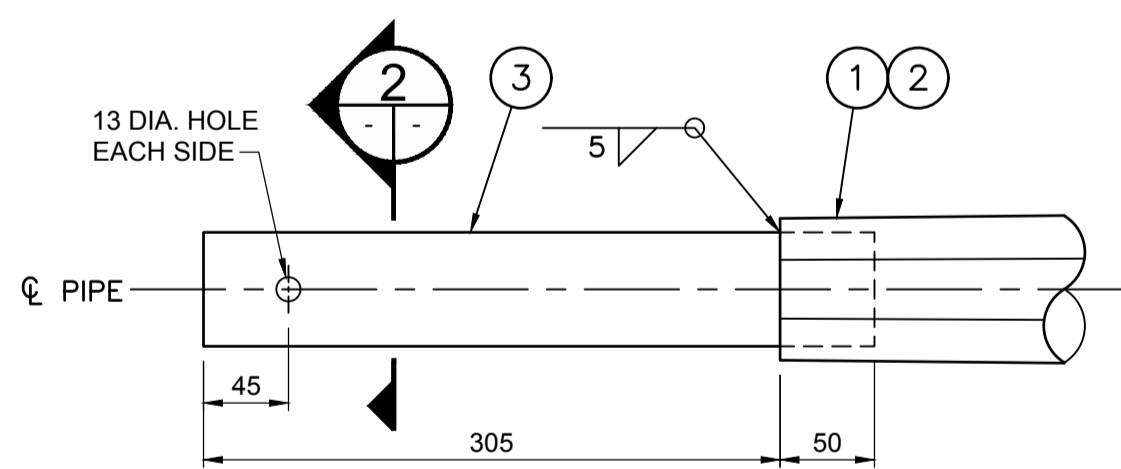
STRUCTURE TYPE CODE	DESCRIPTION	DIM. 'A'	DIM. 'B'
21	21' SIGNAL ARM	6579	6249
26	26' SIGNAL ARM	8103	7773



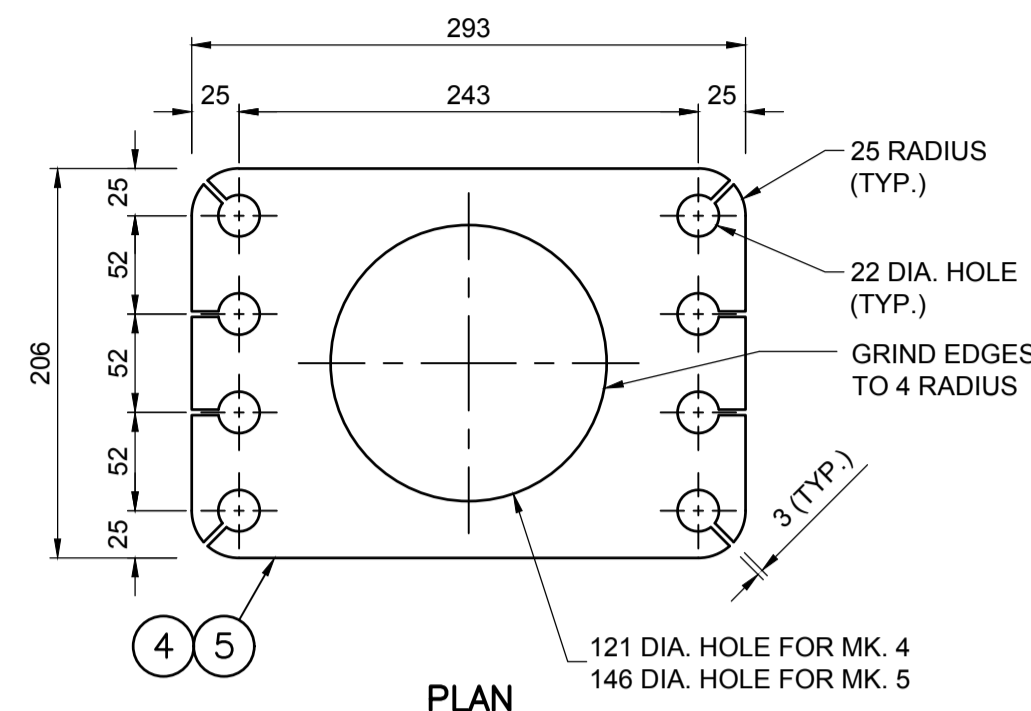
SECTION 1  
NTS



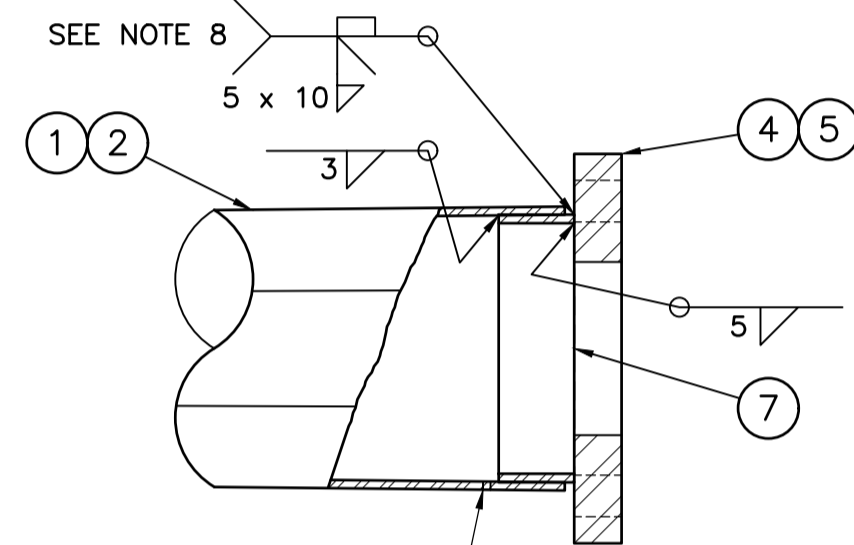
REACH ARM ELEVATION  
NTS



DETAIL A  
NTS

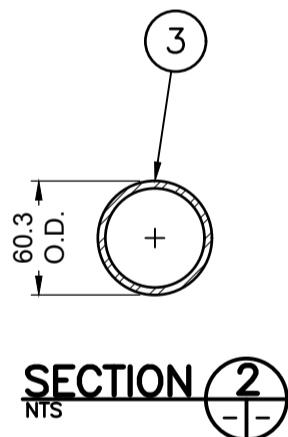


PLAN

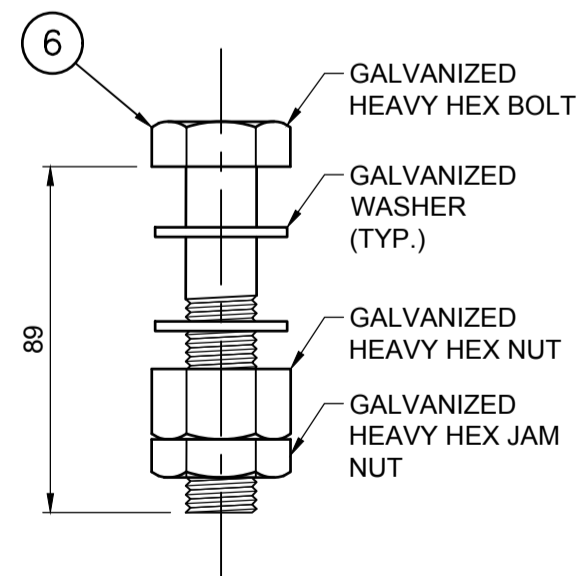


SECTION 8  
NTS

DETAIL B  
NTS



SECTION 2  
NTS



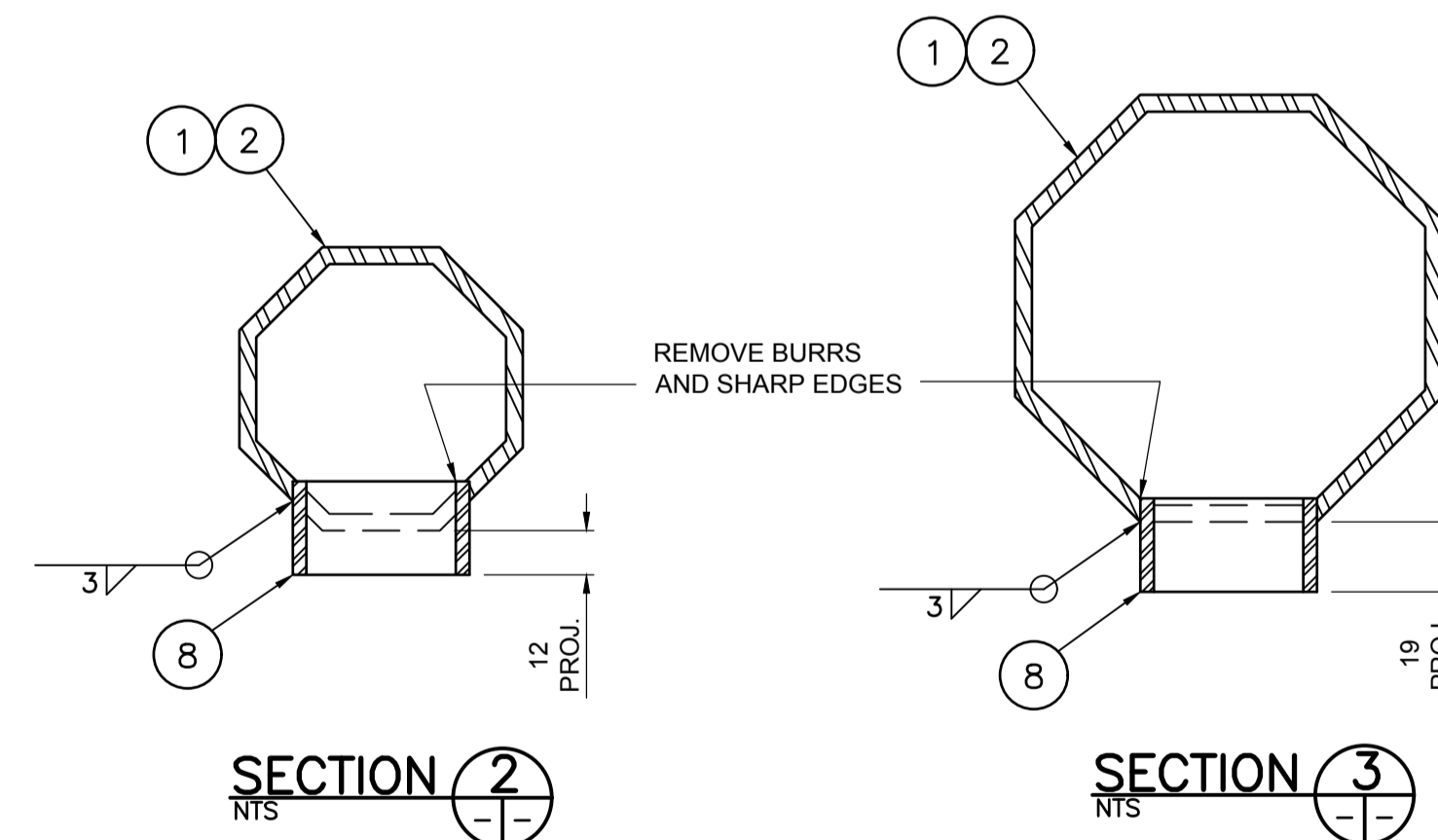
DETAIL C  
NTS

BILL OF MATERIALS						
MK. NO.	QTY. REQ'D.	DESCRIPTION	SIZE	MATERIAL	REMARKS	LINE NO.
<b>6.401 m (21') SIGNAL ARM - 21</b>						
		OCTAGONAL SECTION SHAFT	153 A/F - 73 A/F x 4.554	CSA G40.21 350W		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 x 206 x 293	CSA G40.21 300W		4
6	8	FLANGE BOLTS	19 (3/4") DIA. x 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
<b>7.925 m (26') SIGNAL ARM - 26</b>						
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:**

- 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/m<sup>2</sup>.
- PROVIDE RAISED IDENTIFICATION NUMBER WITH WELDING ELECTRODE AS PER SPECIFICATION, STRUCTURE TYPE CODE INDICATED IN TABLE THIS DRAWING.
- SHIP WITH BOLTS C/W NUTS AND WASHERS IN FLANGE.
- PROVIDE RAISED 'T' ON TOP OF ARM NEAR FLANGE PLATE USING WELDING ELECTRODE.
- GRIND ALL SHARP POINTS AND EDGES.
- 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.
- 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.



SECTION 2  
NTS

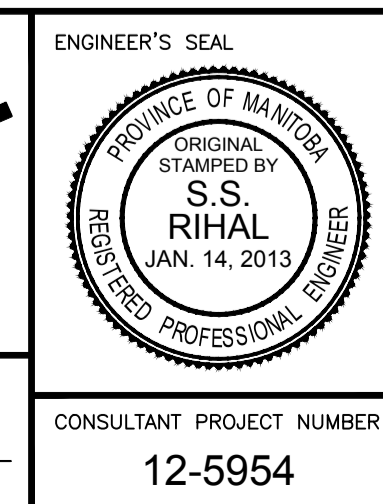
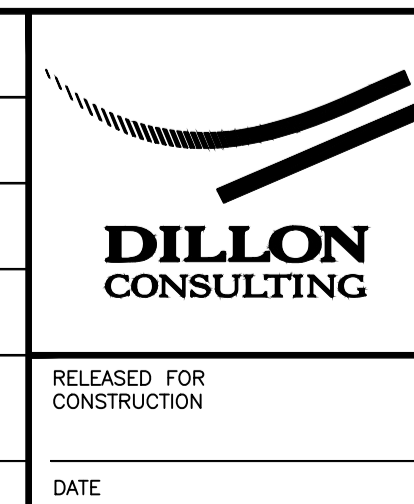
SECTION 3  
NTS



REDUCED DRAWING  
N.T.S.

NO.	REVISIONS	DATE	BY	DATE
3	REVISED BY DILLON CONSULTING	1/10/14	CDW	
2	REVISED BY DILLON CONSULTING	7/25/13	CDW	
1	ISSUED BY DILLON CONSULTING	1/14/13	CDW	

DESIGNED BY	CDW
DRAWN BY	JGW
CHECKED BY	SSR
APPROVED BY	-
HOR. SCALE	NTS
VERTICAL SCALE	NTS



**THE CITY OF WINNIPEG PUBLIC WORKS DEPARTMENT**

Winnipeg

21' & 26' TRAFFIC SIGNAL ARMS

CITY DRAWING NUMBER: S-SD-09

SHEET 9 OF 17

CONSULTANT DRAWING NUMBER: N/A