

BILL OF MATERIALS		
MK.	QTY.	DESCRIPTION
1	1	OCTAGONAL SHAFT 350 A/F x 9.525
2	1	OCTAGONAL ARM 350 A/F TO 200 A/F x 9.525
3	1	BASE PLATE 650 DIA. x 50 THICK (GR. 300W)
4	1	BACKUP STRIP 40 x 6 (FOR SHAFT)
5	1	BACKUP STRIP 40 x 6 (FOR ARM)
6	1	END PLATE 200 A/F OCTAGONAL 6 THICK
7	12	22 DIA.x130 LG. A325 BOLTS GALV. C/W NUT & WASHER
8	2	FLANGE PLATE 550 x 640 x 38 (GR. 300W)
9	2	SIDE GUSSET PLATE 20 x 640 x 250
10	1	TOP GUSSET PLATE 10 THICK
11	1	BOTTOM GUSSET PLATE 10 THICK
12	1	COVER PLATE 370 DIA x 10 THICK
13	2	OCTAGONAL INTERIOR GUSSET PLATE 8 THICK
HANDHOLE MARK H1 (1 REQ'D.)		
18	1	COVER PLATE 11 GA. x 160 x 340 (A569)
19	1	REINFORCING RING 150 x 330, R65 x 9.5 THK
* 20	2	CLAMP BAR 6 x 40 x 180
* 21	2	9.5 DIA. x 140 BOLT S/S (TYPE 316)
* 22	1	GROUND STUD ASSEMBLY 10 DIA. x 40
HANDHOLE MARK H2 (1 REQ'D.)		
23	1	COVER PLATE 11 GA. x 130 x 220 (A569)
24	1	REINFORCING RING 120 x 210, R65 x 9.5 THK
* 25	1	CLAMP BAR 6 x 40 x 150
* 21	1	9.5 DIA. x 140 BOLT S/S (TYPE 316)
* 22	1	GROUND STUD ASSEMBLY 10 DIA. x 40
26	2	CLAMP BAR 10 x 76 (LENGTH TO SUIT)
27	1	BRACKET PL. 10 THICK
28	2	19 DIA. x 76 A325 BOLT (GALV.)
* 29	2	19 DIA. x 50 S/S BOLT (TYPE 316)

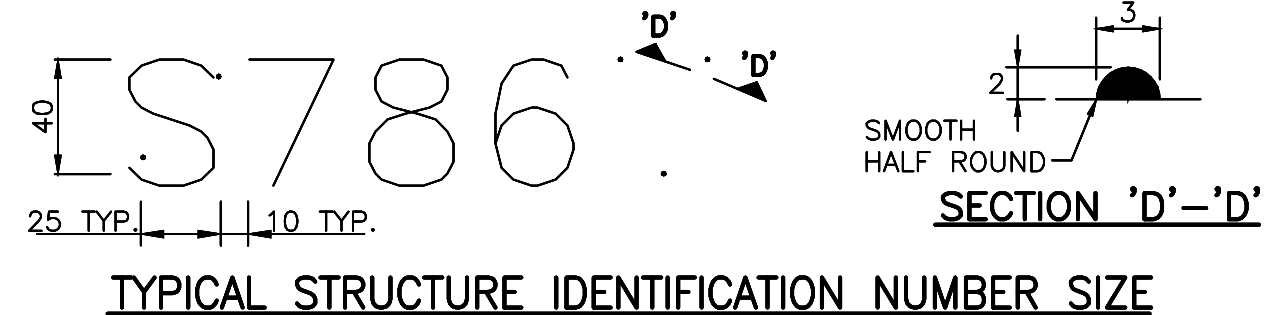
- * NOTES:**
- MARK NO. 29 C/W NUT AND LOCK WASHER.
 - MARK NO. 20 & 25 C/W DRILLED AND TAPPED AT THE CENTER OF PLATE FOR MK. 21
 - MARK NO. 21 C/W CUP WASHER.
 - MARK NO. 22 C/W 2-10Ø HEX NUT, 2 TERMINAL WASHERS, & 1 LOCK WASHER.

- GENERAL NOTES**
- DESIGN DATA**
AASHTO LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS, 1ST EDITION, 2015.

DESIGN WIND LOAD OF 1.9 kPa (41 PSF) IS BASED ON A BASIC WIND SPEED OF 54m/s (120MPH), AN EXPOSURE FACTOR (0.90) FOR A 6m HIGH VERTICAL ARM, A DIRECTIONAL FACTOR (0.85) FOR SUPPORTS WITH HORIZONTAL ARMS, A GUST EFFECT FACTOR OF 1.14 MIN. AND A DRAG COEFFICIENT OF 1.20 FOR OCTAGONAL MEMBERS

FATIGUE WIND LOADS WERE ASSESSED BASED ON CATEGORY I REQUIREMENTS FOR GALLOPING (1.0 KPA) NATURAL WIND GUSTS (0.3 KPA) AND TRUCK INDUCED GUSTS (1.1 KPA)
 - ALL MATERIALS SHALL BE CSA G40.21 - 350W STRUCTURAL STEEL UNLESS OTHERWISE NOTED.
 - ALL MATERIALS EXCEPT STAINLESS STEEL AND ALUMINUM ARE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123 TO A MIN. NET RETENTION OF 610 g/m²
 - ALL AREAS OF DAMAGED GALVANIZING WERE REPAIRED WITH SELF-FLUXING LOW TEMPERATURE, ZINC BASED ALLOY ROD OR SPRAY-ON COATING CALLED "ZINGA".
 - SIGNS**
TWO SIGN PANELS
SIZE 900 x 900 mm. SUPPLIED AND INSTALLED BY THE CITY OF WINNIPEG TRAFFIC SERVICES BRANCH.
 - ALL MATERIALS TO FIT AFTER GALVANIZING.

- NOTES:**
- PROVIDED "RAISED" IDENTIFICATION NO. WITH WELDING ELECTRODE FOR THE SIGN STRUCTURE.
 - GRIND ALL SHARP POINTS AND EDGES.



LOCATION APPROVED UNDERGROUND STRUCTURES		B.M. ELEV.
SUPV. U/G STRUCTURES COMMITTEE	DATE	
NOTE: LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.		
NO.	REVISIONS	DATE BY
1	ISSUED FOR TENDER	17.06.16
0	ISSUED FOR REVIEW	17.06.02

500 - 311 Portage Avenue, Winnipeg MB www.stantec.com		ENGINEER'S SEAL
		DESIGNED BY: H.M.V. CHECKED BY: K.S.A.
DRAWN BY: G.P.		APPROVED BY:
HOR. SCALE: VERTICAL:		RELEASED FOR CONSTRUCTION: DATE
DATE: 2017.05.01		DATE:

THE CITY OF WINNIPEG PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION	
2017 REGIONAL STREET PROGRAM LAGIMODIERE BOULEVARD FABRICATION DETAILS	
CONSULTANT DRAWING NO. C503	SHEET 14 OF 15 CAD FILE DRAWING NUMBER 07270c-50-xxx.dwg CITY DRAWING NUMBER P-3484-14



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 2017/05/16 1:26 PM By: Parodaski, Gordon