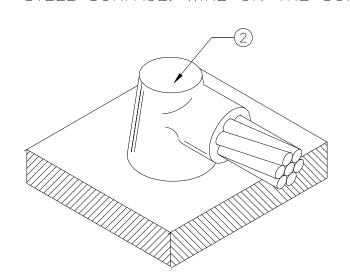
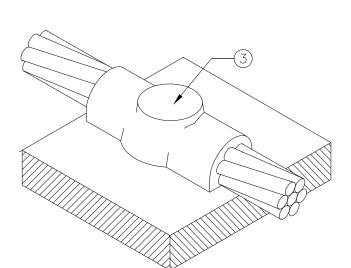


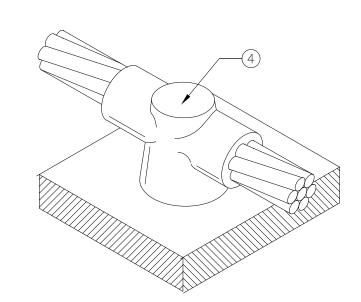
DETAIL 1A — HORIZONTAL WIRE TAP TO A HORIZONTAL STEEL SURFACE. WIRE ON THE SURFACE.



DETAIL 1B — HORIZONTAL WIRE TAP TO A HORIZONTAL STEEL SURFACE. WIRE OFF THE SURFACE.



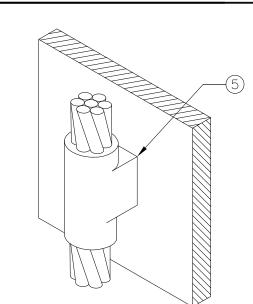
DETAIL 1C — HORIZONTAL THROUGH WIRE TO A HORIZONTAL STEEL SURFACE. WIRE ON THE SURFACE.



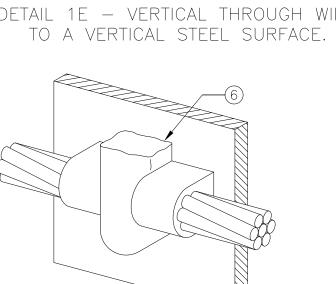
ITEM

QTY

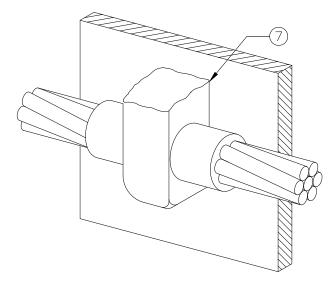
DETAIL 1D — HORIZONTAL THROUGH WIRE TO A HORIZONTAL STEEL SURFACE. WIRE OFF THE SURFACE.



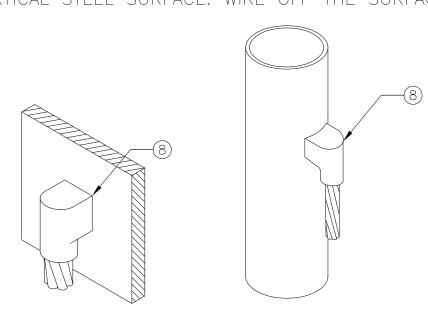
DETAIL 1E - VERTICAL THROUGH WIRE



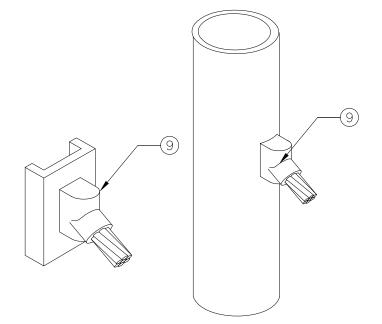
DETAIL 1F — HORIZONTAL THROUGH WIRE TO A VERTICAL STEEL SURFACE. WIRE ON THE SURFACE.



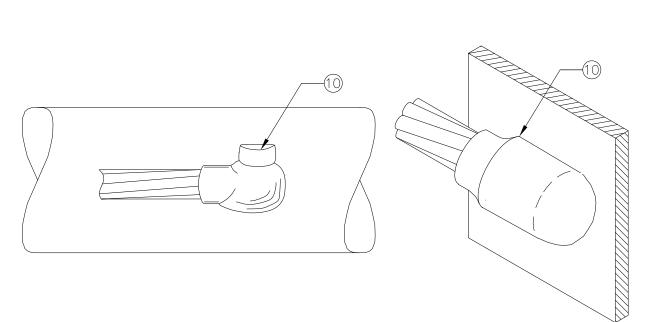
DETAIL 1G — HORIZONTAL THROUGH WIRE TO A VERTICAL STEEL SURFACE. WIRE OFF THE SURFACE.



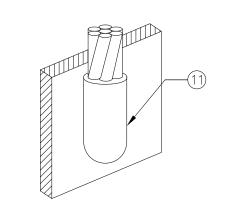
DETAIL 1H — VERTICAL WIRE TAP TO A VERTICAL STEEL SURFACE.



DETAIL 11 — WIRE DOWN AT 45 DEGREES TO A VERTICAL STEEL SURFACE.



DETAIL 1J — HORIZONTAL TAP WIRE TO A VERTICAL STEEL SURFACE. WIRE ON THE SURFACE.



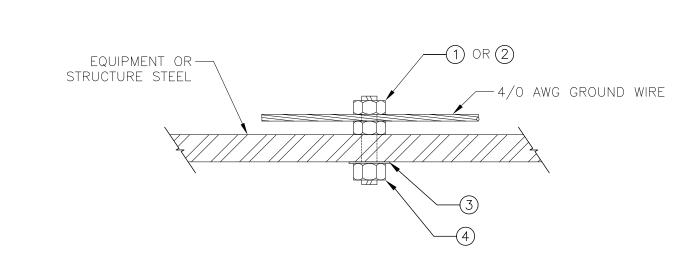
DETAIL 1K — VERTICAL WIRE TAP UP TO A VERTICAL STEEL SURFACE.

MANUFACTURER & CAT. NO.

NOTE:
THIS DRAWING IS PROVIDED FOR INSTRUCTIONAL DESIGN PURPOSES ONLY BASED ON METROLINX GO TRANSIT DESIGN GUIDELINES AND REQUIREMENTS. THE CONSULTANT SHALL VERIFY FOR LOCAL CODE COMPLIANCE, EXISTING SITE CONDITIONS AND INTER DISCIPLINARY DRAWING COORDINATION. ALL DIMENSIONS AND SPECIFICATIONS SHOULD BE VERIFIED BY CONSULTANT AND/OR CONTRACTOR BEFORE ACTUAL CONSTRUCTION BEGINS.

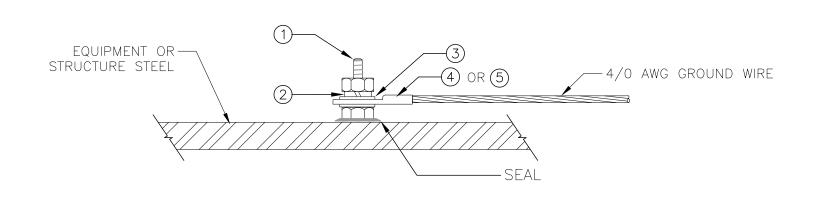


RE	FERENCE DRAWINGS	ISSUE	REVISIONS	DRAWN BY:	DESIGNED BY:		DADOONO	
11	1 VERTICAL WIRE	TAP UP TO A VERTICAL STEEL SURFACE.		BURNDY:	B-1643 OR EQUIVALENT	_		
10	1 HORIZONTAL WIF	RE TAP TO A VERTICAL STEEL SURFACE. WIRE ON THE SU	BURNDY: B-9253 OR EQUIVALENT				4	
9	1 WIRE DOWN AT	45 DEGREES TO A VERTICAL STEEL SURFACE.			BURNDY:	: B-593 OR EQUIVALENT		
8	1 VERTICAL WIRE	TAP TO A VERTICAL STEEL SURFACE.			BURNDY:	B-8718 OR EQUIVALENT		2
7	1 HORIZONTAL THE	ROUGH WIRE TO A VERTICAL STEEL SURFACE. WIRE OFF	THE SURFACE.		BURNDY:	B-1633 OR EQUIVALENT		1
6	1 HORIZONTAL THE	ROUGH WIRE TO A VERTICAL STEEL SURFACE. WIRE ON T	HE SURFACE.		BURNDY:	:B-1633 OR EQUIVALENT		
5	1 VERTICAL THROU	JGH WIRE TO A VERTICAL STEEL SURFACE.			BURNDY:	B-1223 OR EQUIVALENT		
4	1 HORIZONTAL THE	ROUGH WIRE TO A HORIZONTAL STEEL SURFACE. WIRE C	OFF THE SURFACE.		BURNDY:	: B-619 OR EQUIVALENT		
3	1 HORIZONTAL THE	ROUGH WIRE TO A HORIZONTAL STEEL SURFACE. WIRE ON	N THE SURFACE.		BURNDY:	B-7192 OR EQUIVALENT		
2	1 HORIZONTAL WIF	RE TAP TO A HORIZONTAL STEEL SURFACE. WIRE OFF THE	SURFACE.		BURNDY:	: B-647 OR EQUIVALENT		
5 1	1 HORIZONTAL WIF	RE TAP TO A HORIZONTAL STEEL SURFACE. WIRE ON THE	SURFACE.		BURNDY:	B-6114 OR EQUIVALENT		
<u>4</u>								



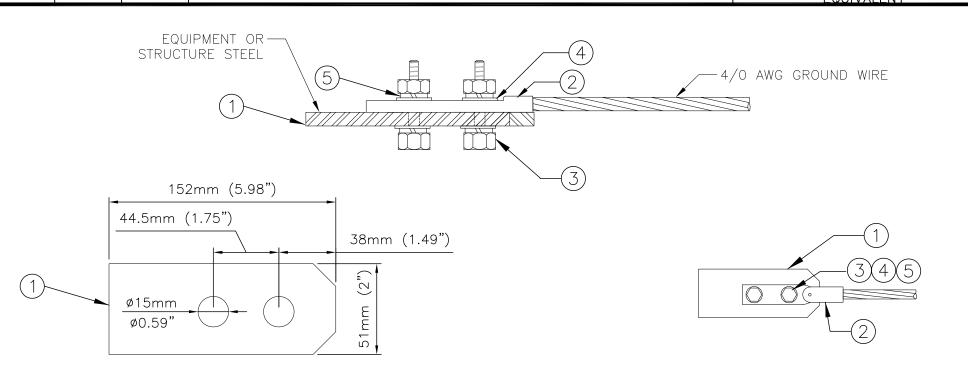
<u>detail 2 — Ground wire to plate C/W servit post connection</u>

ITEM	QTY	UNIT	MATERIAL DESCRIPTION	MANUFACTURER & CAT. NO.
1	1	EA	CONNECTOR SERVIT POST - KC28	BURNDY: KC28 OR EQUIVALENT
2	1	EA	CONNECTOR SERVIT POST - K2C28	BURNDY: K2C28 OR EQUIVALENT
3	2	EA	1/2" LOCKWASHER, BRONZE	(GENERIC)
4	1	EA	NUT MACH BRONZE 1/2"-16	(GENERIC)



<u>detail 3 — Welded Stud Connection to Structural Steel</u>

ITEM	QTY	UNIT	MATERIAL DESCRIPTION	MANUFACTURER & CAT. NO.
1	1	EA	BOLT, HEX, SS, 1/2"-13 NC x 1", A304/A316)	
2	1	EA	WASHER, SPRING (LOCK), SS, 1/2", A304/A316	(GENERIC)
3	2	EA	WASHER, FLAT, SS, 1/2", A304/A316	
4	1	EA	TERMINAL 1 HOLE FOR 2 AWG WIRE	BURNDY: YA2CL6-BOX OR EQUIVALENT
5	1	EA	TERMINAL 1 HOLE FOR 4/0 AWG WIRE	BURNDY: YA28L-BOX OR



<u>DETAIL 4 - STEEL PLATE TO GROUND LOOP COMPRESSION CONNECTION</u>

ITEM	QTY	UNIT	MATERIAL DESCRIPTION	MANUFACTURER & CAT. NO.
1	1	EA	PLATE, STEEL, A-36, 1/4" (6.35mm) THK, 6"x2" (152 x 51mm) (GENERIC ORDER BY DESCRIPTION)	(GENERIC)
2	1	EA	TERMINAL, 2 HOLE, SEE DRAWING MXS-100-001 DETAIL 5	BURNDY: YGHA2C-2N OR EQUIVALENT
3	2	EA	BOLT, HEX HEAD, 1/2"-13x1", SS W/NUT	
4	4	EA	WASHER, FLAT, SS, 1/2", A304/A316	(GENERIC)
5	4	EA	WASHER, SPRING (LOCK), SS, 1/2", A304/A316	

CI/07	REF	ERENCE DRAWINGS			ISSUE		REVISIONS		DESIGNED BY:
T\GO\CI\07								RCW 14/12/11	SXF 14/12/11
GDC01\DEPT			3	15/04/06	FINAL DESIGN			CHECKED BY: CTG	APPROVED BY:
			2	, ,	100% DESIGN			15/01/16	ZBT 15/01/16
WFILE-P			1	15/02/09	90% DESIGN			SCALE: NTS	FULL SIZE ONLY
			0	15/01/16	60% DESIGN				
FILE	DWG NO.	TITLE	NO.	DATE	ISSUED FOR	REV.	DATE		

MATERIAL DESCRIPTION





TRACTION ELECTRIFICATION GROUNDING AND BONDING STANDARD INSTALLATION DESIGN DETAILS

CONNECTIONS TO STEEL PLATE							
CONTRACT NO.	DWG. NO.	REV.	SHEET				
RQQ-2011-PP-032	MXS-100-003	0	6/26				