

GENERAL CIRCUIT CONDUCTOR AND CONDUIT IDENTIFICATION

POWER CIRCUIT CALLOUTS		POWER CABLE CIRCUIT CALLOUTS		DATA / COMMUNICATION	
[P1] [1/2" FLEX, 2#12, #12G]	[P27] [1"C, 2#6, 1#8G]	[PC1] [3/4"C, 1 (3C#12, 1#12G) TYPE 2]	[T2] [1 (2 PAIRS), TELEPHONE]	[D2] [1 (2 PAIRS), CAT6]	
[P2] [3/4"C, 2#12, 1#12G]	[P28] [1"C, 3#6, 1#8G]	[PC2] [3/4"C, 1 (3C#10, 1#10G) TYPE 2]	[D3] [1 (1 PAIR), BELDEN9841]	[D4] [1 (3 PAIRS), BELDEN638AFS]	
[P3] [3/4"C, 3#12, 1#12G]	[P28a] [1"C, 4#6, 1#8G]	[PC3] [1"C, 1 (3C#8, 1#10G) TYPE 2]	[D5] [1 (1 PAIR), BELDEN87760]		
[P4] [3/4"C, 4#12, 1#12G]	[P29] [1"C, 3#6, 2#14, 1#8G]	[PC4] [1 1/4"C, 2 (3C#12, 1#12G) TYPE 2]			
[P5] [3/4"C, 5#12, 1#12G]	[P30] [1"C, 3#6, 3#14, 1#8G]	[PC5] [1 1/2"C, 2 (3C#10, 1#10G) TYPE 2]			
[P6] [3/4"C, 6#12, 1#12G]	[P31] [1"C, 3#6, 4#14, 1#8G]	[PC1A] [3/4"C, 1 (2C#12, 1#12G) TYPE 2]			
[P7] [3/4"C, 7#12, 1#12G]	[P32] [1"C, 3#6, 5#14, 1#8G]	[PC2A] [3/4"C, 1 (2C#10, 1#10G) TYPE 2]			
[P8] [3/4"C, 8#12, 1#12G]	[P33] [1"C, 3#4, 1#8G]				
[P9] [3/4"C, 3#12, 2#14, 1#12G]	[P34] [1 1/4"C, 3#4, 3#14, 1#8G]				
[P10] [3/4"C, 3#12, 3#14, 1#12G]	[P35] [1 1/4"C, 3#4, 5#14, 1#8G]				
[P11] [3/4"C, 3#12, 4#14, 1#12G]	[P36] [1 1/4"C, 3#3, 1#6G]				
[P12] [3/4"C, 3#12, 5#14, 1#12G]	[P37] [1 1/4"C, 3#3, 3#14, 1#6G]				
[P13] [3/4"C, 3#12, 6#14, 1#12G]	[P38] [1 1/4"C, 3#2, 1#6G]				
[P14] [3/4"C, 3#12, 7#14, 1#12G]	[P39] [1 1/4"C, 3#1, 1#6G]				
[P15] [3/4"C, 2#10, 1#10G]	[P39a] [1 1/2"C, 4#1, 1#6G]				
[P16] [3/4"C, 3#10, 1#10G]	[P40] [1 1/2"C, 3#1, 3#14, 1#6G]				
[P17] [3/4"C, 3#10, 2#14, 1#10G]	[P41] [1 1/2"C, 3#2, 0, 1#6G]				
[P18] [3/4"C, 3#10, 3#14, 1#10G]	[P41a] [2"C, 4#2, 0, 1#6G]				
[P19] [3/4"C, 3#10, 4#14, 1#10G]	[P42] [2"C, 3#3, 0, 1#4G]				
[P20] [3/4"C, 3#10, 5#14, 1#10G]	[P43] [2"C, 3#4, 0, 1#4G]				
[P21] [1"C, 2#8, 1#10G]	[P300] [2 1/2"C, 3#300 kcmil, 1#3G]				
[P22] [1"C, 3#8, 1#10G]	[P350] [3 1/2"C, 3#350 kcmil, 1#4G]				
[P23] [1"C, 3#8, 2#14, 1#10G]	[P500] [3"C, 3#500 kcmil, 1#3G]				
[P24] [1"C, 3#8, 3#14, 1#10G]	[P750] [4"C, 3#750 kcmil, 1#2G]				
[P25] [1"C, 3#8, 4#14, 1#10G]					
[P26] [1"C, 3#8, 5#14, 1#10G]					

ANALOG CIRCUIT CALLOUTS		CONTROL CIRCUIT CALLOUTS		CONTROL CABLE CIRCUIT CALLOUTS	
[A1] [3/4"C, 1 TYPE 3]	[C1] [3/4"C, MSC]	[CC5] [3/4"C, 1-5C TYPE 1]			
[A2] [1"C, 2 TYPE 3]	[C2] [3/4"C, 2#14, 1#14G]	[CC7] [3/4"C, 1-7C TYPE 1]			
[A3] [1"C, 3 TYPE 3]	[C3] [3/4"C, 3#14, 1#14G]	[CC9] [1"C, 1-9C TYPE 1]			
[A4] [1"C, 4 TYPE 3]	[C4] [3/4"C, 4#14, 1#14G]	[CC12] [1"C, 1-12C TYPE 1]			
[A5] [1 1/4"C, 5 TYPE 3]	[C5] [3/4"C, 5#14, 1#14G]	[CC19] [1 1/2"C, 1-19C TYPE 1]			
[A6] [1 1/4"C, 6 TYPE 3]	[C6] [3/4"C, 6#14, 1#14G]	[CC25] [1 1/2"C, 1-25C TYPE 1]			
[A7] [1 1/2"C, 7 TYPE 3]	[C7] [3/4"C, 7#14, 1#14G]	[CC37] [2"C, 1-37C TYPE 1]			
[A8] [1 1/2"C, 8 TYPE 3]	[C8] [3/4"C, 8#14, 1#14G]	[CC1] [1-7C #12 TYPE 1]			
[A9] [1 1/2"C, 9 TYPE 3]	[C9] [3/4"C, 9#14, 1#14G]				
[A10] [2"C, 10 TYPE 3]	[C10] [3/4"C, 10#14, 1#14G]				
[A11] [2"C, 11 TYPE 3]	[C11] [3/4"C, 11#14, 1#14G]				
[A12] [2"C, 12 TYPE 3]	[C12] [3/4"C, 12#14, 1#14G]				
[A13] [2"C, 13 TYPE 3]	[C13] [3/4"C, 13#14, 1#14G]				
[A14] [2"C, 14 TYPE 3]	[C14] [3/4"C, 14#14, 1#14G]				
[A15] [3/4"C, 1 TYPE 4]	[C15] [3/4"C, 15#14, 1#14G]				
[A16] [3/4"C, 2 TYPE 4]	[C16] [3/4"C, 16#14, 1#14G]				
[A17] [1"C, 3 TYPE 4]	[C17] [3/4"C, 17#14, 1#14G]				
[A18] [1 1/4"C, 4 TYPE 4]	[C18] [3/4"C, 18#14, 1#14G]				
[A19] [1 1/4"C, 5 TYPE 4]	[C19] [3/4"C, 19#14, 1#14G]				
[A20] [1 1/4"C, 6 TYPE 4]	[C20] [1"C, 20#14, 1#14G]				
[A21] [1 1/2"C, 7 TYPE 4]	[C21] [1"C, 21#14, 1#14G]				
[A22] [1 1/2"C, 8 TYPE 4]	[C22] [1"C, 22#14, 1#14G]				
[A23] [2"C, 9 TYPE 4]	[C23] [1"C, 23#14, 1#14G]				
[A24] [3/4"C, 1-4 pr. TYPE 5]	[C24] [1"C, 24#14, 1#14G]				
[A25] [1"C, 2-4 pr. TYPE 5]	[C25] [1"C, 25#14, 1#14G]				

TYPE 1 - MULTI CONDUCTOR CONTROL CABLE
 TYPE 2 - MULTI CONDUCTOR POWER CABLE
 TYPE 3 - No. 16 TWISTED SHIELDED PAIR
 TYPE 4 - No. 16 TWISTED SHIELDED TRIAD INSTRUMENTATION CABLE
 TYPE 5 - No. 18 MULTI TWISTED, SHIELDED PAIR WITH A COMMON OVERALL SHIELD
 TYPE 6 - No. 18 MULTI TWISTED PAIRS WITH A COMMON OVERALL SHIELD USED FOR PROCESS CONTROL AND COMPUTER CABLING

NOTES:

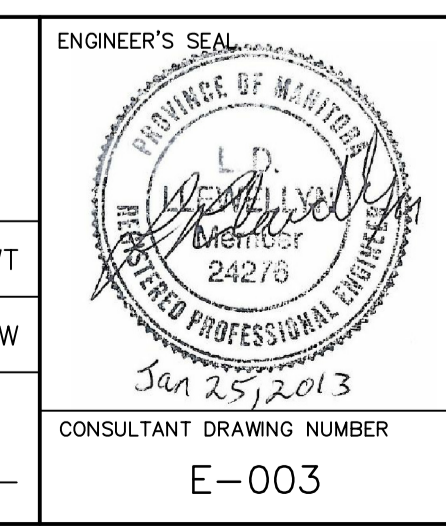
- FOR CABLE TYPES, SEE SPECIFICATIONS.
- CONDUIT SIZES ARE BASED ON THE AREA OF THW CONDUCTORS.
- SIZING OF CONDUCTORS #2AWG AND SMALLER BASED ON AMPACITIES AT 60 DEGREES C, SIZING OF CONDUCTORS #1AWG AND LARGER BASED ON AMPACITIES AT 75 DEGREES C.
- WHERE CIRCUITS ARE UNDERGROUND, DIRECT BURIED OR CONCRETE ENCASED, MINIMUM CONDUIT SIZE SHALL BE 2".
- FOR METRIC CONDUIT SIZES USE THE FOLLOWING CONVERSION:
 1/2" = 16 mm 1 1/4" = 35 mm
 3/4" = 21 mm 1 1/2" = 41 mm
 1" = 27 mm 2" = 53 mm
- PROVIDE Drive RX CABLE FOR POWER FEED TO VFD DRIVEN MOTORS.



B.M. ELEV.			
CONSTRUCTION COMPLETION DATE: YYYY MM DD			
DESIGNED BY	LL	CHECKED BY	WT
DRAWN BY	JN	APPROVED BY	BW
SCALE: HORIZONTAL	NTS	RELEASED FOR CONSTRUCTION	
DATE	2013 01 25	DATE	
NO.	REVISIONS	DATE	BY
0	ISSUED FOR CONSTRUCTION	13/01/25	JBC

CH2MHILL

DESIGNED BY: LL CHECKED BY: WT
 DRAWN BY: JN APPROVED BY: BW
 SCALE: HORIZONTAL: NTS RELEASED FOR CONSTRUCTION
 DATE: 2013 01 25 DATE:



THE CITY OF WINNIPEG
 WATER AND WASTE DEPARTMENT
 ENGINEERING DIVISION

BRADY ROAD RESOURCE MANAGEMENT FACILITY
 LEAF AND YARD WASTE AND PILOT BIOSOLIDS COMPOSTING

ELECTRICAL - LEGEND
 SHEET 3 OF 3

SHEET 38 OF 45
 CITY DRAWING NUMBER
 1-0400B-E0001-003-00