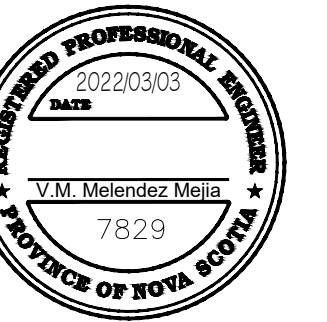


NEW WHARF - FEEDER DIAGRAM

SCALE : N.T.S.

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NOTE:
ALL DIMENSIONS SHOWN ON THIS
DRAWING ARE IN MILLIMETERS.



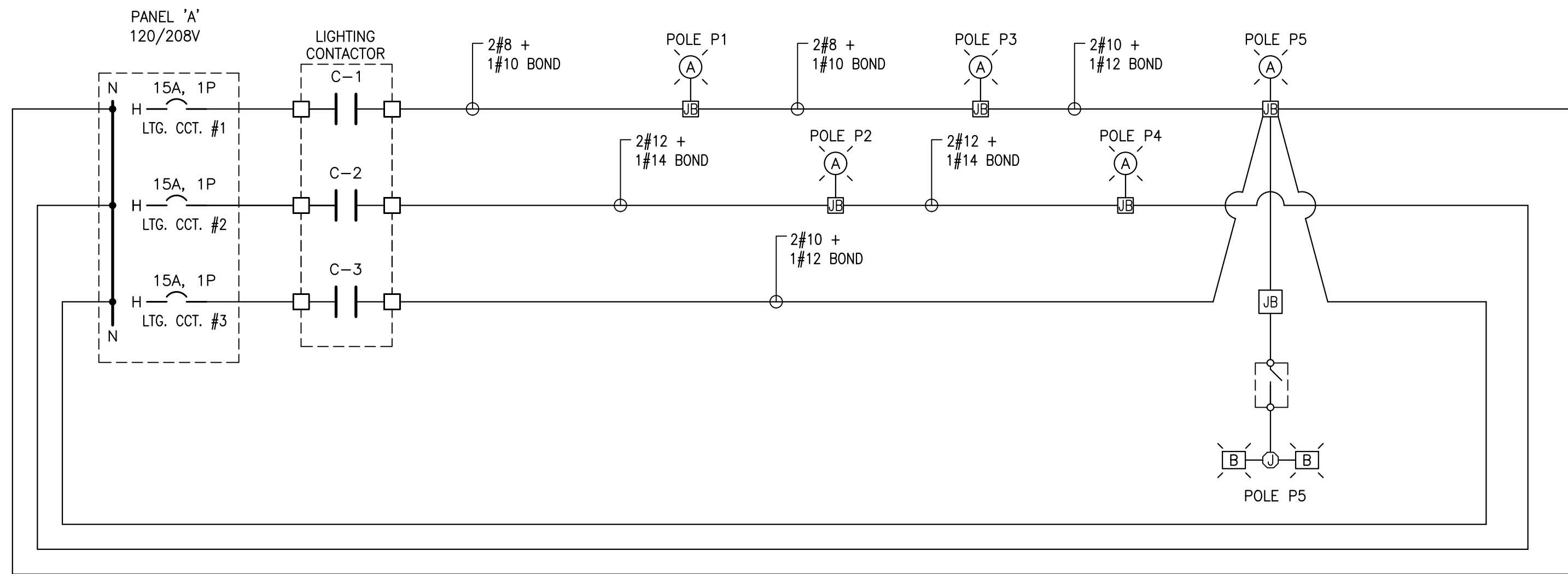
FEEDER SCHEDULE/VOLTAGE DROP/WIRE SIZE CALCULATIONS												
CABLE #	LOADS	LOCATION	BRK. RATING	VOLTAGE	RATED CURRENT	NEMA TYPE	CIRCUIT	DISTANCE METER (FT)	VOLTAGE DROP	FEEDER SIZE *	CONDUIT SIZE	JUNCTION BOX SIZE
1	RECEPTACLE #R1	POWER SHROUD #1 (PS1)	20 AMPS	120V	16 AMPS	5-20R	A-14	42M (137.80')	2.85V - 2.37%	2#8 AWG RW90 Cu.+ 1#10 AWG RW90 Cu.	78mm	SHROUD 1 305mm x 305mm x 150mm Dp.
2	RECEPTACLE #R2	POWER SHROUD #1 (PS1)	20 AMPS	120V	16 AMPS	5-20R	A-16	42M (137.80')	2.85V - 2.37%	2#8 AWG RW90 Cu.+ 1#10 AWG RW90 Cu.	78mm	SHROUD 2 305mm x 305mm x 150mm Dp.
3	RECEPTACLE #R3	POWER SHROUD #1 (PS1)	20 AMPS	120V	16 AMPS	5-20R	A-18	42M (137.80')	2.85V - 2.37%	2#8 AWG RW90 Cu.+ 1#10 AWG RW90 Cu.	78mm	SHROUD 3 305mm x 305mm x 150mm Dp.
4	RECEPTACLE #R4	POWER SHROUD #2 (PS2)	30 AMPS	120V	24 AMPS	L-30R	A-1	61M (200.14')	2.56V - 2.14%	2#4 AWG RW90 Cu.+ 1#8 AWG RW90 Cu.	78mm	SHROUD 4 305mm x 305mm x 150mm Dp.
5	RECEPTACLE #R5	POWER SHROUD #2 (PS2)	30 AMPS	120V	24 AMPS	L-30R	A-3	61M (200.14')	2.56V - 2.14%	2#4 AWG RW90 Cu.+ 1#8 AWG RW90 Cu.	78mm	SHROUD 5 305mm x 305mm x 150mm Dp.
6	RECEPTACLE #R6	POWER SHROUD #3 (PS3)	30 AMPS	120V	24 AMPS	L-30R	A-5	73M (239.51')	3.07V - 2.56%	2#4 AWG RW90 Cu.+ 1#8 AWG RW90 Cu.	78mm	SHROUD 6 305mm x 305mm x 150mm Dp.
7	RECEPTACLE #R7	POWER SHROUD #3 (PS3)	30 AMPS	120V	24 AMPS	L-30R	A-7	73M (239.51')	3.07V - 2.56%	2#4 AWG RW90 Cu.+ 1#8 AWG RW90 Cu.	78mm	SHROUD 7 305mm x 305mm x 150mm Dp.
8	RECEPTACLE #R8	POWER SHROUD #3 (PS3)	30 AMPS	120V	24 AMPS	L-30R	A-9	73M (239.51')	3.07V - 2.56%	2#4 AWG RW90 Cu.+ 1#8 AWG RW90 Cu.	78mm	SHROUD 8 305mm x 305mm x 150mm Dp.
9	RECEPTACLE #R9	POWER SHROUD #3 (PS3)	30 AMPS	120V	24 AMPS	L-30R	A-11	73M (239.51')	3.07V - 2.56%	2#4 AWG RW90 Cu.+ 1#8 AWG RW90 Cu.	78mm	SHROUD 9 305mm x 305mm x 150mm Dp.
10	RECEPTACLE #R10	POWER SHROUD #4 (PS4)	30 AMPS	120V	24 AMPS	L-30R	A-13	81M (265.76')	3.40V - 2.84%	2#4 AWG RW90 Cu.+ 1#8 AWG RW90 Cu.	78mm	SHROUD 10 305mm x 305mm x 150mm Dp.
11	RECEPTACLE #R11	POWER SHROUD #4 (PS4)	30 AMPS	120V	24 AMPS	L-30R	A-15	81M (265.76')	3.40V - 2.84%	2#4 AWG RW90 Cu.+ 1#8 AWG RW90 Cu.	78mm	SHROUD 11 305mm x 305mm x 150mm Dp.
12	RECEPTACLE #R12	POWER SHROUD #5 (PS5)	30 AMPS	120V	24 AMPS	L-30R	A-17	95M (311.70')	3.22V - 2.68%	2#3 AWG RW90 Cu.+ 1#6 AWG RW90 Cu.	78mm	SHROUD 12 305mm x 305mm x 150mm Dp.
13	RECEPTACLE #R13	POWER SHROUD #5 (PS5)	30 AMPS	120V	24 AMPS	L-30R	A-19	95M (311.70')	3.22V - 2.68%	2#3 AWG RW90 Cu.+ 1#6 AWG RW90 Cu.	78mm	SHROUD 13 305mm x 305mm x 150mm Dp.
14	AREA LIGHTING	WHARF - POLE P1, POLE P3 AND POLE P5	15 AMPS	120V	4.2 AMPS	N/A	A-2	N/A	3.42V - 2.85%	SEE DETAIL 3, THIS DRAWING - "WHARF LIGHTING WIRING DIAGRAM & CONTROL SCHEMATIC"	41mm	150mm x 150mm x 100mm Dp. MOUNTED ON EACH POLE
15	AREA LIGHTING	WHARF - POLE P2 AND POLE P4	15 AMPS	120V	2.8 AMPS	N/A	A-4	N/A	2.99V - 2.49%		41mm	150mm x 150mm x 100mm Dp. MOUNTED ON EACH POLE
16	FLOOD LIGHTING	WHARF - POLE P5	15 AMPS	120V	2.95 AMPS	N/A	A-6	N/A	2.78V - 2.32%		41mm	150mm x 150mm x 100mm Dp. MOUNTED ON EACH POLE
17	WINCH MOTOR	WHARF	80 AMPS	208V	30.8 AMPS	N/A	A-10,12	97M (318.26')	5.23V - 2.51%	2#4 AWG RW90 Cu.+ 1#8 AWG RW90 Cu.	78mm	COMBINATION STARTER

* DO NOT COMMON NEUTRALS

FEEDER SCHEDULE

SCALE : N.T.S.

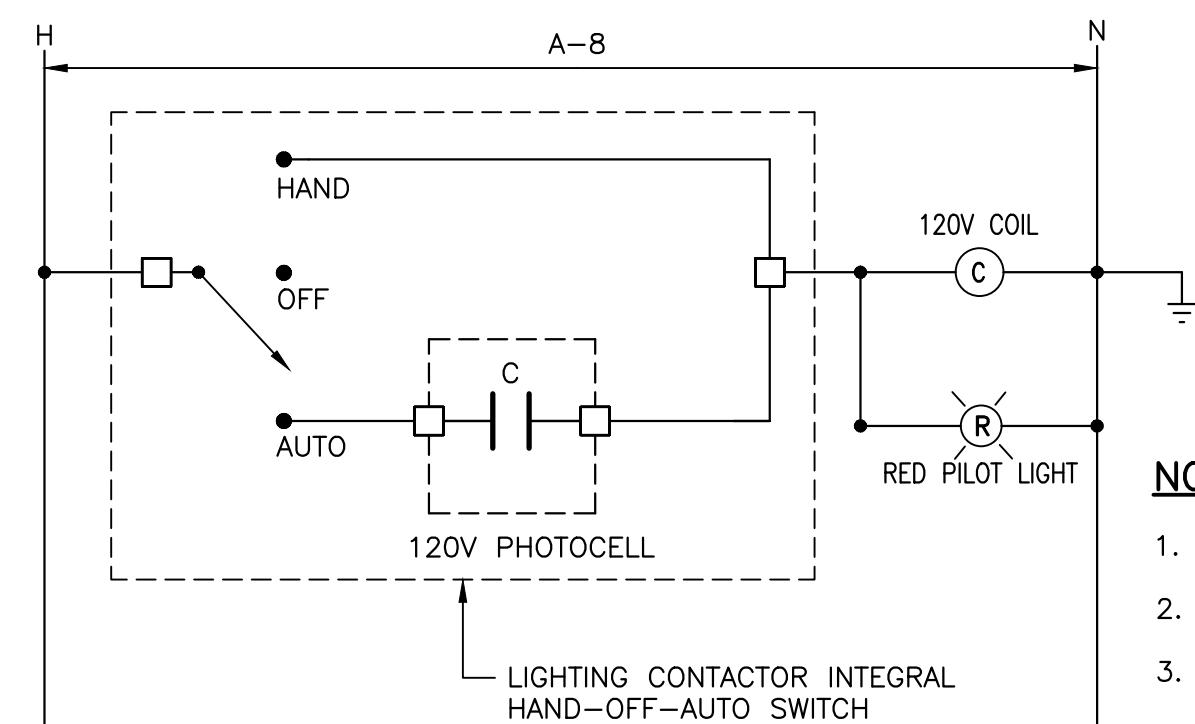
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NOTE:
INSTALL A WARNING SIGN ADJACENT TO
THE LIGHTING CONTACTOR STATING THE
FOLLOWING: "THIS EQUIPMENT IS FED
FROM A SEPARATE CIRCUIT" THE WARNING
SIGN SHALL BE IN CAPITAL LETTERS WITH
A MINIMUM HEIGHT OF 9.5mm, IN WHITE
ON A RED BACKGROUND

LEGEND:

- (A) TYPE 'A' LED AREA LIGHTING FIXTURE
- (B) TYPE 'B' LED FLOOD LIGHTING FIXTURE
- (JB) 150mm x 150mm x 100mm Dp JUNCTION BOX
- (O) 100mm OCTAGONAL JUNCTION BOX
- (WS) WEATHER PROOF SWITCH FOR MANUAL CONTROL
OF TYPE 'B' FLOOD LIGHTING FIXTURES



NOTES:

- 3-POLE CONTACTOR
- CONTACTS RATED FOR 20 AMP, 120V
- 20 AMP COIL

WHARF LIGHTING WIRING DIAGRAM & CONTROL SCHEMATIC

SCALE : N.T.S.

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WHARF FEEDER
SCHEDULE AND DIAGRAM

designed	K.G. WOLFE	conçu	
date	OCTOBER 2021		
drawn	K.G. WOLFE	dessiné	
date	OCTOBER 2021		
approved		approuvé	
date			
Tender		Submission	
PWGS Project Manager	Administrateur de projets TPSC		
project number		no. du projet	
	R.116062.001		
drawing no.		no. du dessin	
	Sht E7 of 7		