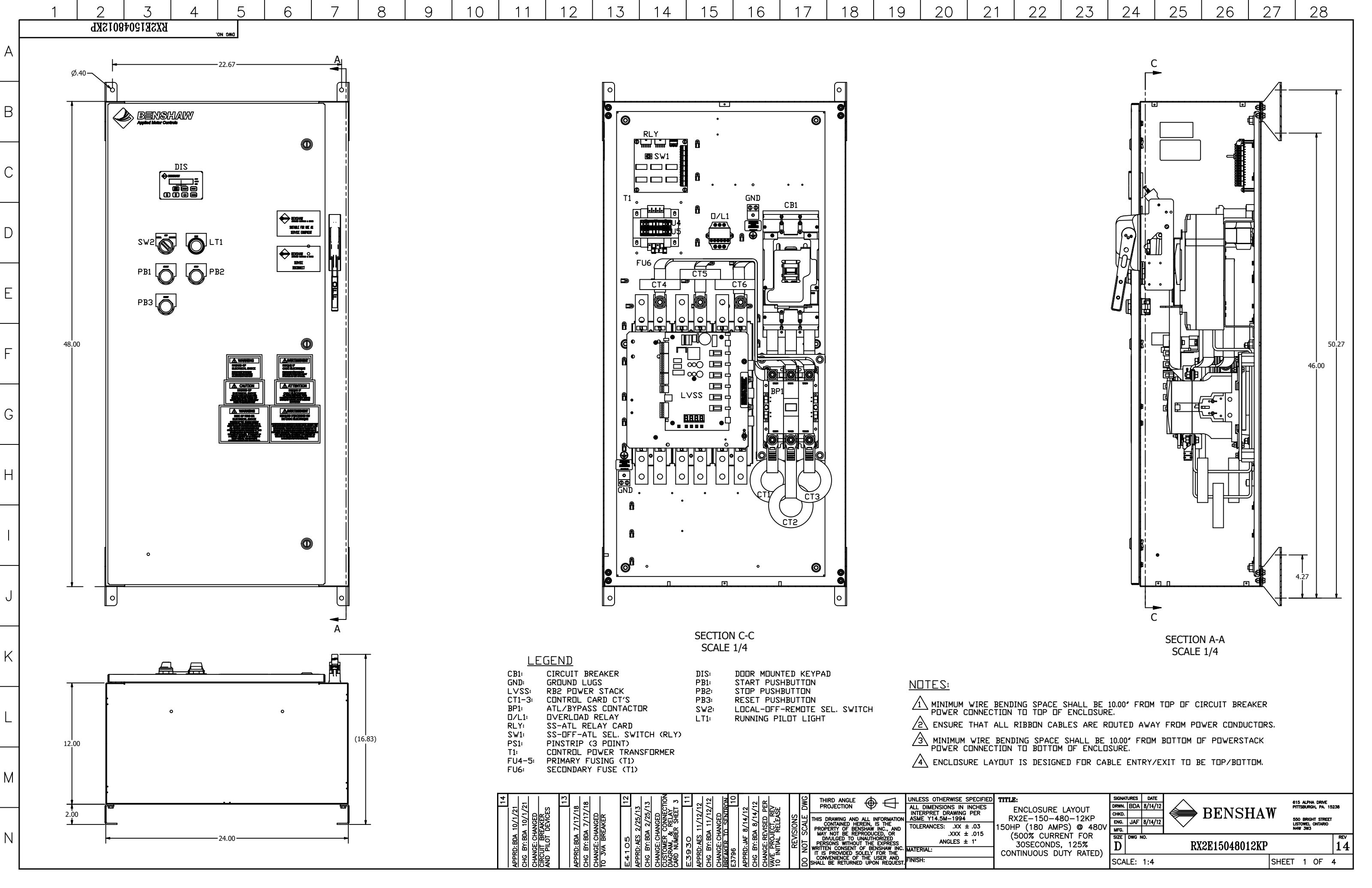




LEGEND

CB1:	CIRCUIT BREAKER	DIS:	DOOR MOUNTED KEYPAD
GND:	GROUND LUGS	PB1:	START PUSHBUTTON
LVSS:	RB2 POWER STACK	PB2:	STOP PUSHBUTTON
CT1-3:	CONTROL CARD CT'S	PB3:	RESET PUSHBUTTON
BP1:	ATL/BYPASS CONTACTOR	SW2:	LOCAL-OFF-REMOTE SEL. SWITCH
O/L1:	OVERLOAD RELAY	LT1:	RUNNING PILOT LIGHT
RLY:	SS-ATL RELAY CARD		
SW1:	SS-OFF-ATL SEL. SWITCH (RLY)		
PS1:	PINSTRIIP (3 POINT)		
T1:	CONTROL POWER TRANSFORMER		
FU4-5:	PRIMARY FUSING (T1)		
FU6:	SECONDARY FUSE (T1)		

NOTES:

- MINIMUM WIRE BENDING SPACE SHALL BE 10.00" FROM TOP OF CIRCUIT BREAKER POWER CONNECTION TO TOP OF ENCLOSURE.
- ENSURE THAT ALL RIBBON CABLES ARE ROUTED AWAY FROM POWER CONDUCTORS.
- MINIMUM WIRE BENDING SPACE SHALL BE 10.00" FROM BOTTOM OF POWERSTACK POWER CONNECTION TO BOTTOM OF ENCLOSURE.
- ENCLOSURE LAYOUT IS DESIGNED FOR CABLE ENTRY/EXIT TO BE TOP/BOTTOM.

14		APPRD: BDA 10/1/21 CHG: BY: BDA 10/1/21 CHANGE: CHANGED CIRCUIT BREAKER AND PILOT DEVICES		13		APPRD: BDA 7/17/18 CHG: BY: BDA 7/17/18 CHANGE: CHANGED TO 3VA BREAKER		12		E4105 APPRD: AES 2/25/13 CHG: BY: BDA 2/25/13 CHANGE: CHANGED CUSTOMER CONNECTION DIAGRAM, & RELAY CARD NUMBER SHEET 3		11		E3930 APPRD: AES 11/12/12 CHG: BY: BDA 11/12/12 CHANGE: CHANGED BREAKER TO SENSIRON E3796		10		APPRD: JAF 8/14/12 CHG: BY: BDA 8/14/12 CHANGE: REVISED PER WAVE PROJECT REV 10 INITIAL RELEASE		REVISIONS		DO NOT SCALE DWG		THIRD ANGLE PROJECTION  THIS DRAWING AND ALL INFORMATION CONTAINED HEREIN, IS THE PROPERTY OF BENSCHAW INC., AND MAY NOT BE REPRODUCED, OR DIVULGED TO UNAUTHORIZED PERSONS WITHOUT THE EXPRESS WRITTEN CONSENT OF BENSCHAW INC. IT IS PROVIDED SOLELY FOR THE CONVENIENCE OF THE USER AND SHALL BE RETURNED UPON REQUEST.		UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS IN INCHES INTERPRET DRAWING PER ASME Y14.5M-1994 TOLERANCES: .XX ± .03 .XXX ± .015 ANGLES ± 1° MATERIAL: FINISH:		TITLE: ENCLOSURE LAYOUT RX2E-150-480-12KP 150HP (180 AMPS) @ 480V (500% CURRENT FOR 30SECONDS, 125% CONTINUOUS DUTY RATED)		SIGNATURES DRWN. BDA 8/14/12 CHKD. JAF 8/14/12 ENG. JAF 8/14/12 MFG. DATE 8/14/12		 BENSCHAW 615 ALPHA DRIVE PITTSBURGH, PA. 15238 500 BRIGHT STREET LITTONVILLE, ONTARIO N4W 3W3		REV 14	
SCALE: 1:4										SHEET 1 OF 4																									

A

B

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M

N

- NOTES
- 1

FAILSAFE FAULT RELAY SHOWN IN DE-ENERGIZED STATE. RELAY WILL ENERGIZE WHEN CONTROL POWER IS APPLIED TO CONTROL CARD, AND WILL REMAIN ENERGIZED WHEN NO FAULTS ARE PRESENT. RELAY WILL DE-ENERGIZE WHEN A FAULT OCCURS, OR IF CONTROL POWER IS REMOVED FROM THE CARD
- 2

REFER TO INSTRUCTION MANUAL FOR STARTER CONFIGURATION.
- 3

CUSTOMER SHOULD MONITOR GENERAL FAULT CONTACTS OF RELAY (R3) FOR FAULT DETECTION, AND REMOVE 2 WIRE RUN COMMAND WHEN A FAULT IS DETECTED.
- 4

TIGHTEN CARD WIRING CONNECTIONS TO TO 2.7-3.5 in. lbs. (0.3-0.4 N-m).
- 5

TIGHTEN POWER LUG FIELD WIRING CONNECTIONS TO CHART 1. SPECIFICATIONS. IF BREAKER IS SUPPLIED ON LINE SIDE OF STACK USE TORQUE VALUES ON BREAKER.
- 6

REMOVE JUMPER WHEN INTERLOCKS ARE INSTALLED.
- 7

SELECT EITHER TWO OR THREE WIRE CONTROL.
- 8

STARTER SHIPPED SETUP FOR CUSTOMER SUPPLIED REMOTE 2 WIRE CONTROL. IF NO CONTROL IS TO BE USED THEN JUMPERS SHOULD REMAIN AS SHOWN.
- 9

IF CUSTOMER SUPPLIED REMOTE 3 WIRE CONTROL IS NEEDED MAKE CUSTOMER CONNECTIONS AS SHOWN.
- 10

CHANGE P49 (DI2) TO "FR" (FAULT RESET)
- 11

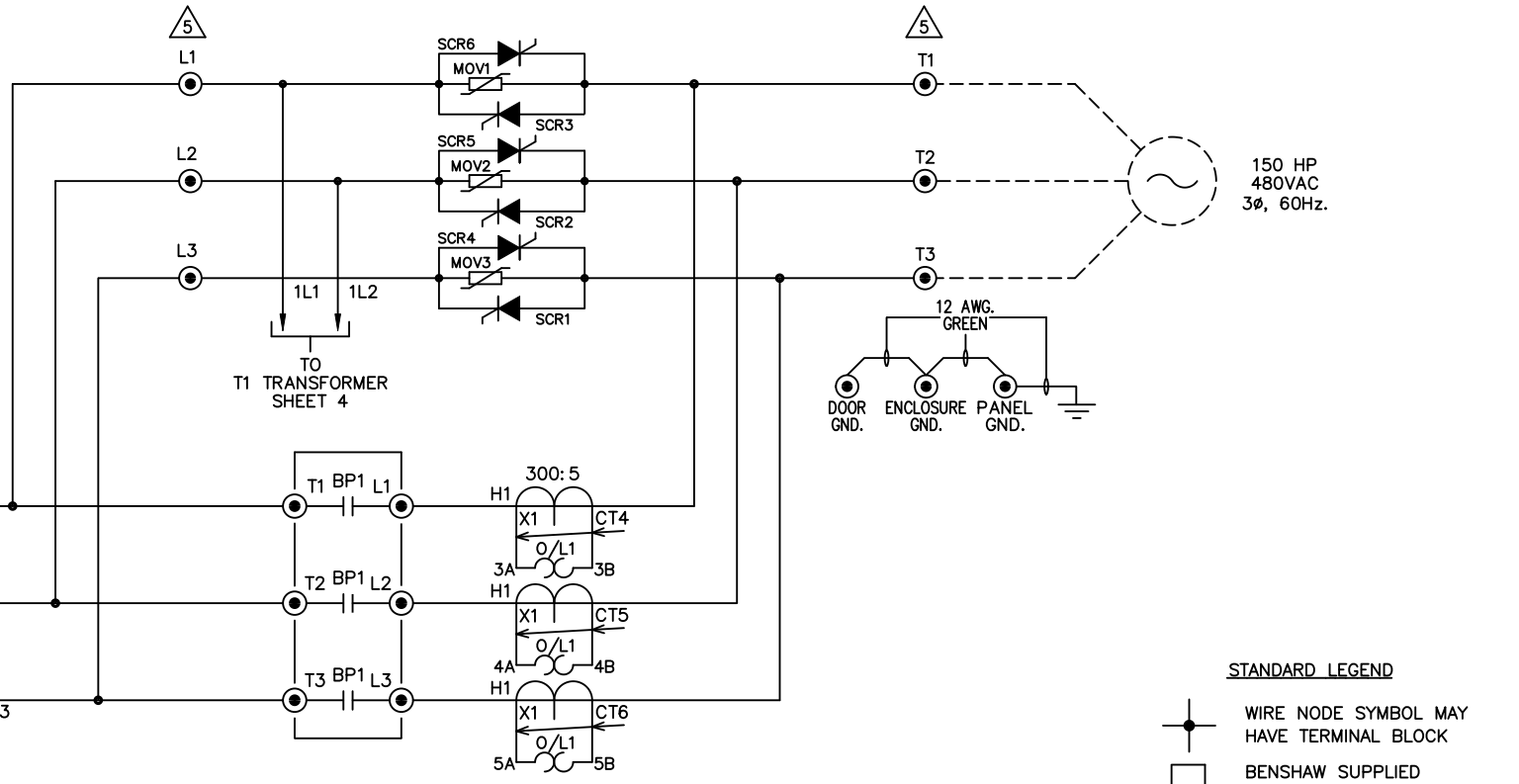
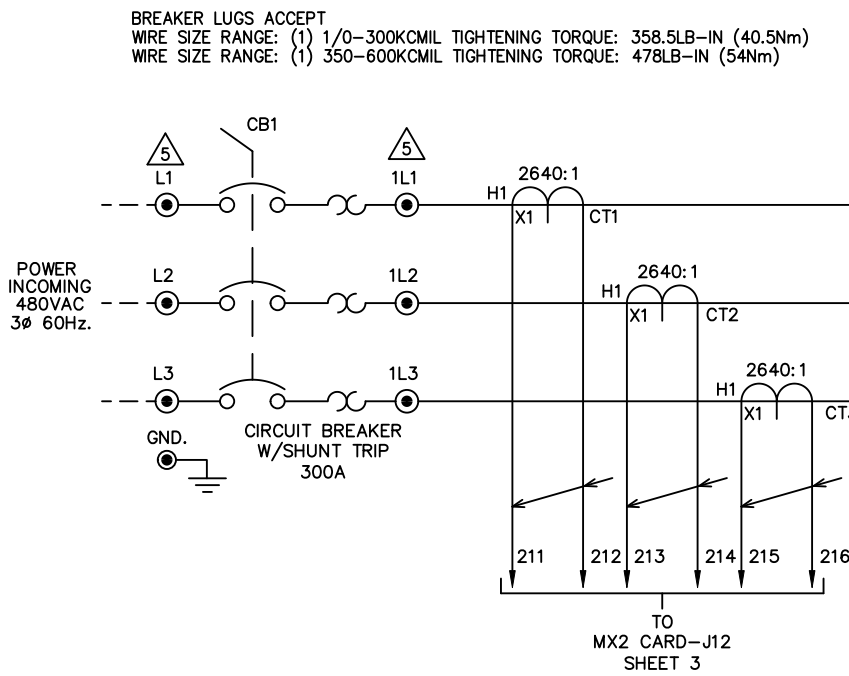
SW1-1: (ANALOG INPUT) UP = CURRENT, DOWN = VOLTAGE
SW1-2: (ANALOG OUTPUT) UP = VOLTAGE, DOWN = CURRENT
- 12

PROGRAM (P78), FUN (03), CT RATIO = 2640:1

CHART 1

TIGHTENING TORQUE SPECIFICATIONS FOR HEX HEAD SCREWS

BOLT SIZE SAE	BOLTS - (IN. LB)	GRADE 5 (FT. LB)
1/4	96-120	8-10
5/16	180-228	15-19
3/8	300-396	25-33
7/16	480-648	40-54
1/2	720-936	60-78



- STANDARD LEGEND
- WIRE NODE SYMBOL MAY HAVE TERMINAL BLOCK

BENSHAW SUPPLIED TERMINAL BLOCK

TERMINAL STRIP

POWER CONNECTION

PC BOARD TERMINALS

TWISTED PAIR

TWISTED SHIELDED PAIR

SHIELDED WIRE

FIELD WIRING

REVISIONS

DO NOT SCALE DWG

THIRD ANGLE PROJECTION

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UNLESS OTHERWISE SPECIFIED

ALL DIMENSIONS IN INCHES INTERPRET DRAWING PER ASME Y14.5M-1994

TOLERANCES: .XX ± .03
.XXX ± .015
ANGLES ± 1°

MATERIAL:

FINISH:

TITLE:

POWER SCHEMATIC
RX2E-150-480-12KP
150HP (180 AMPS) @ 480V
(500% CURRENT FOR
30SECONDS, 125%
CONTINUOUS DUTY RATED)

SIGNATURES

DATE

DRWN. BDA 8/14/12

CHKD.

ENG. JAF 8/14/12

MFG.

SIZE DWG NO.

D

RX2E15048012KP

REV

14

615 ALPHA DRIVE
PITTSBURGH, PA. 15238

500 BRIGHT STREET
LUSTOWEL, ONTARIO
N4W 3W3

SCALE: 1:1

SHEET 2 OF 4

