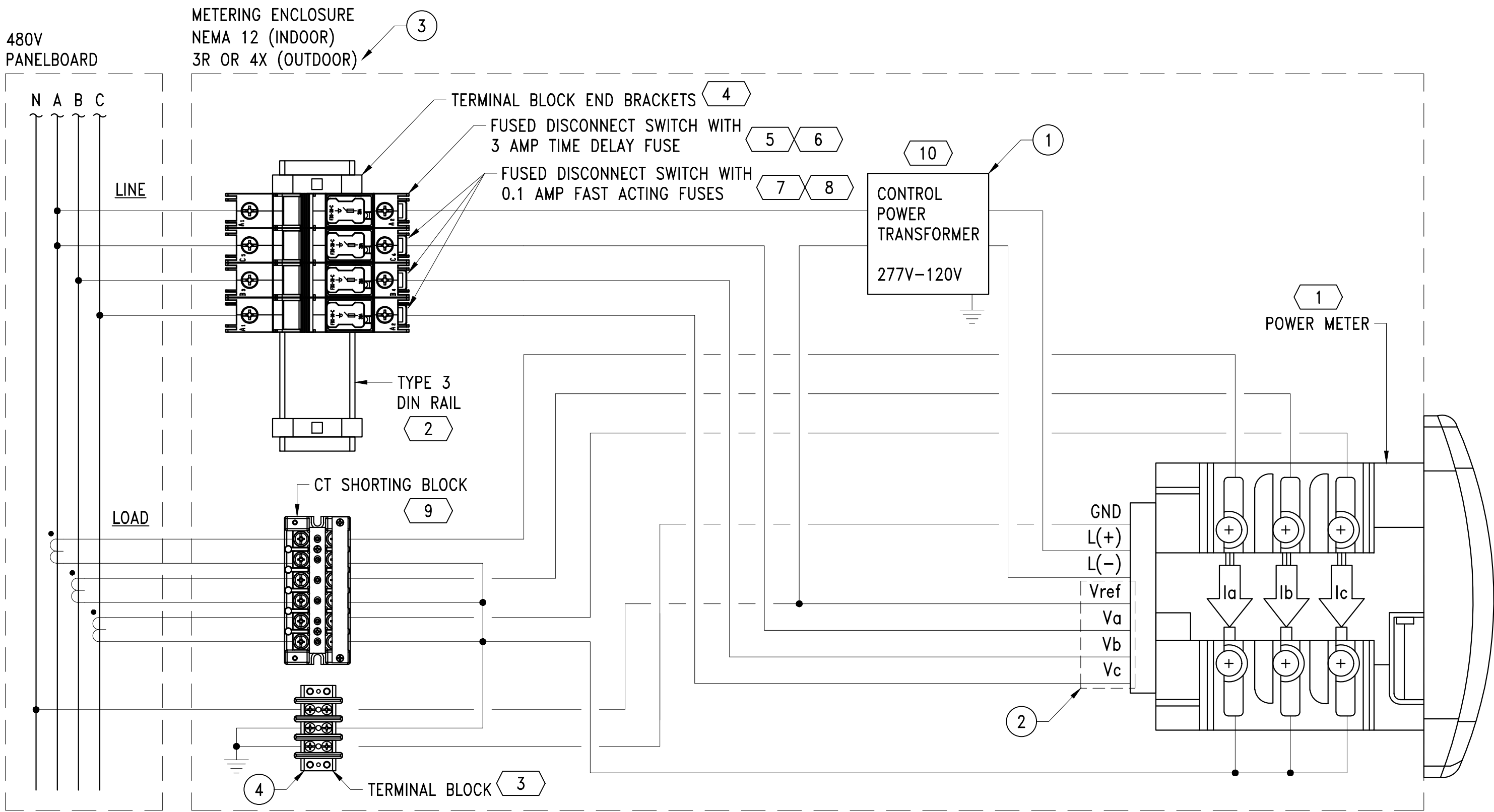


DETAIL
POWER XPERT METER WIRING DIAGRAM, 208V
SCALE: NTS



DETAIL
POWER XPERT METER WIRING DIAGRAM, 480V
SCALE: NTS

GENERAL NOTES:

- METERING ENCLOSURE DESCRIPTION:
UL LISTED NEMA 12 (INDOOR) 3R OR 4X (OUTDOOR) ENCLOSURE WITH POWER METERS, NETWORK SWITCH AND GATEWAY, POWER SUPPLY, TERMINAL BLOCKS AND CT SHORTING BLOCKS. METER DISPLAY MOUNTS ON PANEL DOOR. ETHERNET CONNECTIONS TERMINATE ON SWITCH AND GATEWAY. METERS, NETWORK, GATEWAY ENCLOSURES AND ALL ASSOCIATED EQUIPMENT SHALL BE PROVIDED BY DIVISION 16.
- METERING ENCLOSURE FABRICATOR SHALL COORDINATE INSTALLATION OF EQUIPMENT WITH MANUFACTURER OF POWER METERS PRIOR TO CONSTRUCTION.
- PROVIDE INSTALLATION OF ALL DEVICES INDICATED REQUIRING ONLY THE CUSTOMER'S EXTERNAL CONNECTIONS TO PRODUCE A FULLY OPERATIONAL METERING ENCLOSURE. PROVIDE ALL INTERNAL WIRING INCLUDING CONNECTIONS FROM CT SHORTING BLOCKS TO METERS MOUNTED ON FRONT OF ENCLOSURE. PROVIDE CAT 6 CABLE WITH RJ45 CONNECTORS FROM EACH METER TO NETWORK SWITCH.
- POWER WIRING SHALL BE MINIMUM 12 AWG, CU, 600V, 41/30 STRANDED MTW WIRE. 24V WIRING SHALL BE 16 AWG, MTW WIRE, CU, 600V, STRANDED.
- ALL WIRING SHALL BE NEATLY TIE WRAPPED IN TRUNKS AND SECURED TO PANEL.
- OPTIMUM LOCATIONS OF TERMINAL STRIPS ARE LEFT TO THE DISCRETION OF THE FABRICATOR. LABEL AND NUMBER TERMINALS PER SCHEMATIC.
- MAINTAIN MIN CONDUCTOR BENDING RADIUS PER NEC. CUSTOMER CONDUIT ENTRIES ARE ANTICIPATED AT THE TOP OF THE ENCLOSURE.
- REFER TO SPECIFICATION SECTION 260553 FOR NAMEPLATE LABELING REQUIREMENTS INCLUDING COLOR, MATERIAL AND THICKNESS.
- NAMEPLATES SHALL HAVE SLIGHTLY CHAMFERED EDGES AND SHALL BE FASTENED TO PANEL USING S.S. SCREWS.
- COMPLETED ENCLOSURE SHALL MEET UL508A REQUIREMENTS AND SHALL BE LABELED ACCORDINGLY.
- ROUTE 480V OR 208V CONDUCTORS AND CAT 6A CABLES IN SEPARATE WIRING DUCTS.
- CONTACT ELECTRIC SHOP FOREMAN TO ARRANGE FOR QA INSPECTION OF METER INSTALLATION.

KEYED NOTES

- SIZE CONTROL POWER TRANSFORMER PER MANUFACTURER'S RECOMMENDATION.
- REFERENCE VOLTAGE CONNECTION FROM UNSWITCHED NEUTRAL AND VOLTAGE PHASE INPUTS SHALL BE TAKEN FROM PANEL SERVING METERED CIRCUIT. FOR THIS PROJECT, APPLICABLE PANEL NAME(S) IS(ARE) _____.
- OUTDOOR INSTALLATION SHALL INCLUDE TRANSDUCER ONLY WITH METER MOUNTED IN CABINET (NO DOOR PENETRATION).
- ENSURE ELECTRICAL ISOLATION BETWEEN NEUTRAL CONDUCTOR AND GROUND. DO NOT GROUND NEUTRAL.

BILL OF MATERIALS (METERING ENCLOSURE)

ITEM	DESCRIPTION	QTY	MANUFACTURER	PART NO.
1	POWER METER	VARIES	EATON	PXM 2260 MA65105
2	TYPE 3 DIN RAIL	VARIES	COOPER OR APPROVED EQUAL	
3	TERMINAL BLOCK	VARIES	MARATHON SPECIAL PRODUCTS OR APPROVED EQUAL	603GP03
4	END BRACKET	VARIES	MARATHON SPECIAL PRODUCTS OR APPROVED EQUAL	
5	FUSED DISCONNECT SWITCH	VARIES	MARATHON SPECIAL PRODUCTS OR APPROVED EQUAL	FDS-30-C-1
6	TIME DELAY FUSES, 3A	VARIES	LITTELFUSE, BUSSMAN OR APPROVED EQUAL	FLQ003
7	FUSED DISCONNECT SWITCH	VARIES	MARATHON SPECIAL PRODUCTS OR APPROVED EQUAL	FDS-30-C-3
8	FAST ACTING FUSES, 0.1A	VARIES	LITTELFUSE, BUSSMAN OR APPROVED EQUAL	OKLK.100
9	CT SHORTING BLOCKS (CTSB)	VARIES	MARATHON SPECIAL PRODUCTS OR APPROVED EQUAL	1506SC
10	CONTROL POWER TRANSFORMER	1	EATON, SCHNEIDER, OR APPROVED EQUAL	

*CONSULTANT'S LOGO

PROJECT ENGR./ARCH:
DESIGNER:
SEAN MCKEE
DRAWN BY:
KYLE MADSON
SCALE:
NONE
DATE:
03/01/2020
CHECKED BY:
SEAN MCKEE
CHECKED/APPROVED BY:

REVISIONS									
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	03/01/2019	KJM	2019 F&I STANDARD DETAILS						
2	03/01/2020	KJM	2020 F&I STANDARD DETAILS						

PROJECT MANAGER:
PROJECT ENGINEER:
DESIGN ENGINEER:
DRAFTER:
SCALE:
DATE:
CHECKED/APPROVED BY:

Port of Seattle SEA-TAC INTERNATIONAL AIRPORT
PROJECT: F&I STANDARD DETAILS
SHEET TITLE: **POWER METER WIRING DIAGRAMS**

WORK PROJECT NO.
CONSULTANT'S NO.
PORT OF SEATTLE NO.
262713-03