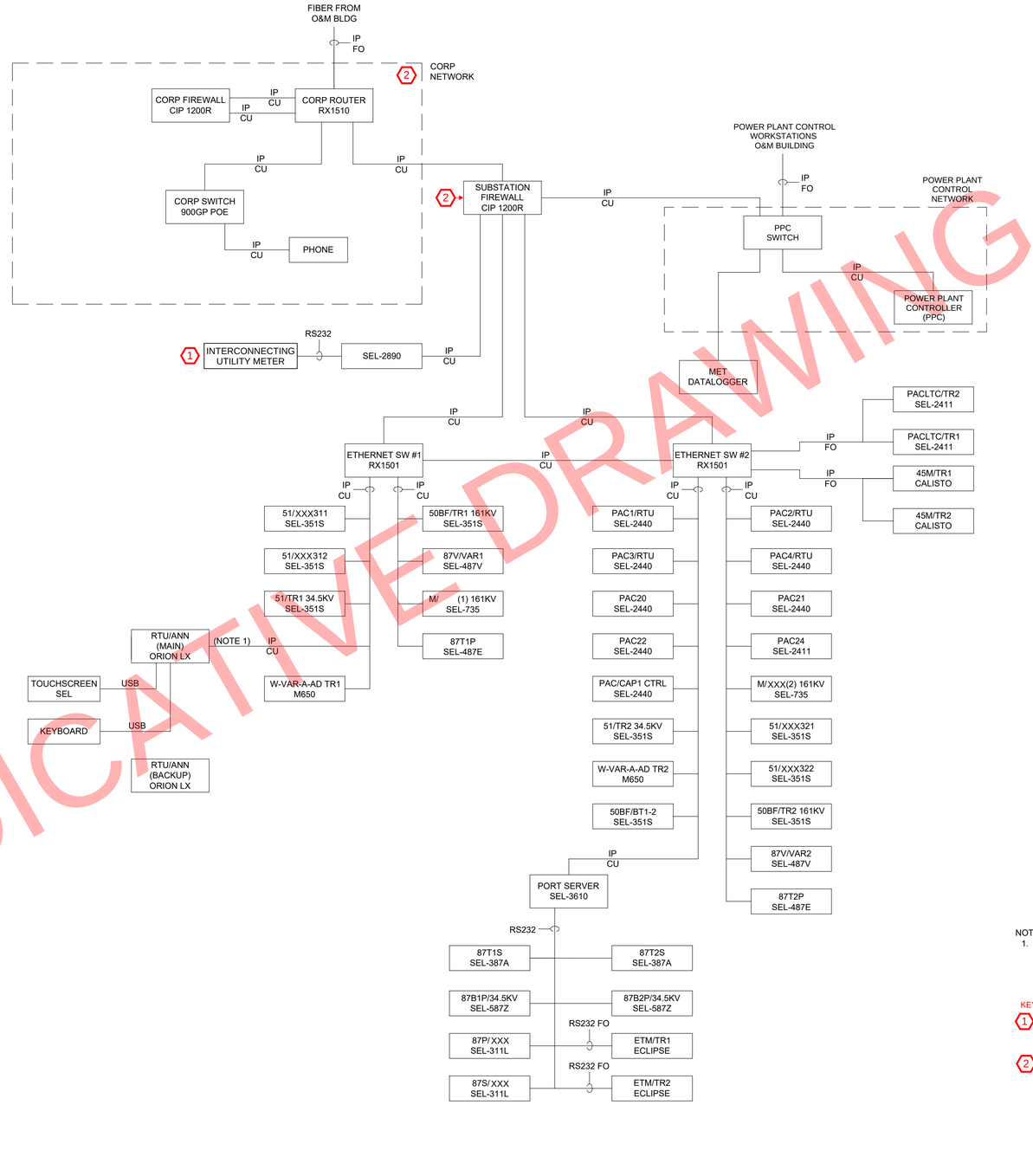

INDICATIVE DRAWING

LEGEND

IP CU	=	IP OVER COPPER
IP FO	=	IP OVER FIBER
POTS	=	PHONE CIRCUIT
FR CU	=	FRAME RELAY OVER COPPER
RS232	=	RS232 SERIAL
MB+ RS232	=	MODBUS PLUS OVER RS232
MB RS232	=	MODBUS RTU (SERIAL) OVER RS232
SER FO	=	SERIAL OVER FIBER
USB	=	USB SERIAL

NOTES:
1. RTU/ANN(BACKUP) IS NOT CONNECTED TO THE NETWORK UNDER NORMAL CONDITIONS. IN THE EVENT OF RTU/ANN(MAIN) FAILURE, THE ETHERNET CABLE, TOUCHSCREEN, AND KEYBOARD WILL BE TRANSFERED FROM MAIN TO BACKUP.

KEY NOTES:
1. THE INTERCONNECTING UTILITY METER IS INSTALLED WHEN THE INTERCONNECTING UTILITY METERING IS INSTALLED AT THE COLLECTION SUBSTATION INSTEAD OF AT THE POINT OF INTERCONNECT.
2. XCEL PROVIDED EQUIPMENT.

NO	REVISION	ZONE	DATE	BY	CHK	ENG
	REV A - ISSUED FOR REVIEW 8-9-21					

NO	REVISION	ZONE	DATE	BY	CHK	ENG

REFERENCE DRAWINGS

DWG NO.	MANUFACTURER	DESCRIPTION

Xcel Energy®
NORTHERN STATES POWER COMPANY
XXXXXXX SOLAR / ENERGY STORAGE
XXXXXXX COUNTY, MINNESOTA

DWN:	DATE:	CHK:	DATE:
ENG:	DATE:	CHK:	DATE:
PM:	DATE:	PROJ. NO:	
APVD:	DATE:	SCALE: NONE	

THIS MAP/DOCUMENT IS A TOOL TO ASSIST EMPLOYEES IN THE PERFORMANCE OF THEIR JOBS. YOUR PERSONAL SAFETY IS PROVIDED FOR BY USING SAFETY PRACTICES, PROCEDURES, AND EQUIPMENT AS DESCRIBED IN THE SAFETY TRAINING PROGRAMS AND MANUALS.

ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

UNIT 0
COLLECTOR SUBSTATION CONTROL COMMUNICATIONS DIAGRAM

NH- XXXXX-X

REV