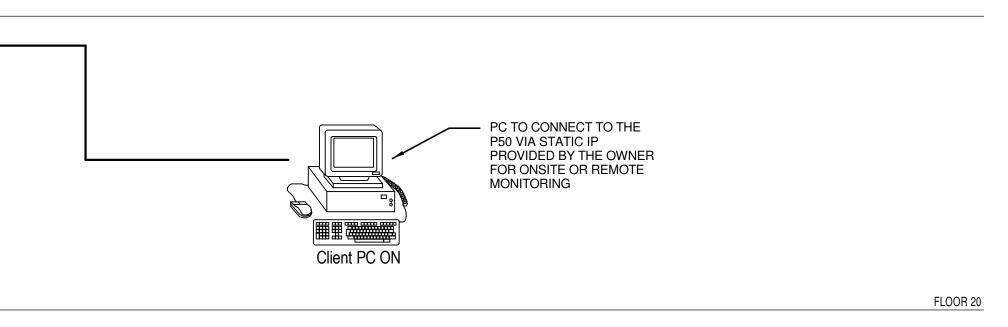




| METER DESIGNATION | EQUIPMENT DESIGNATION | FLOOR | ROOM/LOCATION | DRAWING | | | | SIGNAL | POINTS | | | | | | KEY NOTE |
|----------------------|--------------------------|-------|---------------|---------|-------|-----------------------|----|--------------------------|--------|-----|----|------|------|---|----------|
| | | | | PLAN | RISER | END USE LOAD COMMENTS | KW | | KVA | KWH | PF | AMPS | VOLT | | |
| M-1 | L4P20 | 20 | ELEC RM | | E-601 | HVAC & LIGHTING | - | MODBUS RTU OR MODBUS TCP | Х | Х | Х | Х | Х | Х | - |
| | R2P20A | 20 | ELEC RM | | E-601 | RECEPTACLE | - | MODBUS RTU OR MODBUS TCP | Х | Х | Х | Х | Х | Х | |
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POWER MONITORING NETWORK DIAGRAM

LEGEND:

----- MODBUS BELDEN 9341 IN 3/4" CONDUIT. CAT 6 CABLE IN 3/4" CONDUIT.

| METER | ٦ |
|-------|-------|
| | |
| | METER |

24-CIRCUIT HD MULTIPLE METER UNIT CABINET IN NEMA 1 ENCLOSURE WITH COMMINICATIONS AND (2) VOLTAGES INPUTS DENT #DI-MMU8-N1-(2)VR OR EQUAL

ETHERNET SWITCHES INTER-CONNECT AND TERMINATE AT THE P50 ON LAN 1 AND THE P50 REQUIRES 120 VOLT POWER

POWER MONITORING NOTES:

1. DENT OR EQUAL ASHRE COMPLIANT HIGH DENSITY SCALABLE METERING SYSTEM FOR USE WITH OPTERGY PROTON P50 WITH 10 TENANT ENERGY MONITORING SOFTWARE. THE GOAL OF THIS SYSTEM IS TO PROVIDE THE OWNER THE ABILITY TO MONITOR AND MANAGE THEIR POWER SYSTEM .

- 2. THE SYSTEM SHALL BE COMMISSIONED TO SEGREGATE LOADS INTO THE FOLLOWING:
- HVAC SYSTEMS INTERIOR LIGHTING
- RECEPTACLE CIRCUITS

3. THE SYSTEM SHALL INCLUDE COMMUNICATING DEVICES (DASHBOARD, GATEWAY, ETHERNET SWITCHES, CIRCUIT MONITORS, RELAYS, ETC.) THAT ARE WIRED TOGETHER PER MANUFACTURERS RECOMMENDATIONS. THE RESULT SHALL BE A COMMUNICATIONS NETWORK COMPOSED OF SERIAL DEVICES CONNECTED VIA AN RS485 MODBUS RTU DAISY-CHAIN THAT IS TIED TO A USER INTERFACE HMI PANEL.

- 4. ELECTRICAL CONTRACTOR SHALL INCLUDE THE FOLLOWING FOR A COMPLETE SYSTEM.:
- ³ PROVIDE CT'S, VOLTAGE TAPS, FUSE BLOCKS, SHORTING BLOCKS.

COORDINATE WORK OF THIS SECTION WITH THOSE IN SECTIONS SPECIFYING DISTRIBUTION COMPONENTS THAT ARE MONITORED OR CONTROLLED BY POWER MONITORING EQUIPMENT. START-UP AND COMMISSIONING. MANUFACTURER'S SERVICE: ENGAGE A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE TO AND PREWIRE WALK THROUGH. INSPECT COMPONENTS, ASSEMBLIES, AND EQUIPMENT INSTALLATION INCLUDING CONNECTIONS COMMISSIONING: A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE FOR REMOTE OR ON-SITE INSPECTION OR COMPONENTS, ASSEMBLIES, AND EQUIPMENT INSTALLATION INCLUDING CONNECTIONS. POST INSTALLATION SERVICES: THE MANUFACTURE AGREES TO PROVIDE TECHNICAL SUPPORT SHALL BE MADE AVAILABLE DURING NORMAL BUSINESS HOURS MONDAY THRU FRIDAY, WITH A RESPONSE TIME NO GREAT .ER THAN 48 HOURS.

TECHNICAL SALES AND SERVICE SUPPORT FROM A LOCAL FACTORY REPRESENTATIVE. CONTACT JAY O'CONNOR 508.326.2708

DESIGN DEVELOPMENT _____ DATE JOB NUMBER 08/08/2024 31518.00

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DESIGN DEVELOPMENT



PHASE

PROJECT **KARUNA THERAPUTICS**

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