6. PQMS database description
7. PQMS system block diagram

1.5 Product Data

The Contractor shall submit product data such as catalog cuts, brochures, specifications, etc. for server/workstation equipment, server/workstation software, PQMs, instrument transformers, and other PQMS equipment in sufficient detail and scope to verify compliance with the requirements of the contract documents.

Submitted product data shall also include the manufacturer's standard installation, setup and operation guides for software and for PQMs.

Submitted product data shall include verification that PQMS components meet the requirements of 47 CFR 15, NEMA C12.1, and IEC 61000-4-5.

PART 2 PRODUCTS

2.1 MATERIALS AND EQUIPMENT

2.1.1 General

Units of the same type of equipment shall be products of a single manufacturer. Each major component of equipment shall have the manufacturer's name, model and serial number in a conspicuous place. All materials and equipment shall be currently in production at time of delivery to the Government.

2.1.2 Nameplates

Nameplates shall be provided as required in Section 26 20 00 ELECTRICAL WORK - INTERIOR.

2.1.3 Power Supplies

PQMs shall be powered at 125 VDC. The 125 VDC and 24 VDC shall be fed from battery sources such that power to the meters is maintained upon loss of the ac power.

2.1.4 EMI/RFI Compliance

PQMS system equipment shall be in compliance with 47 CFR 15.

2.2 POWER QUALITY METERS

PQMs shall be Square D Powerlogic Series meters ~~or approved equal~~.

2.2.1 Time Synchronization

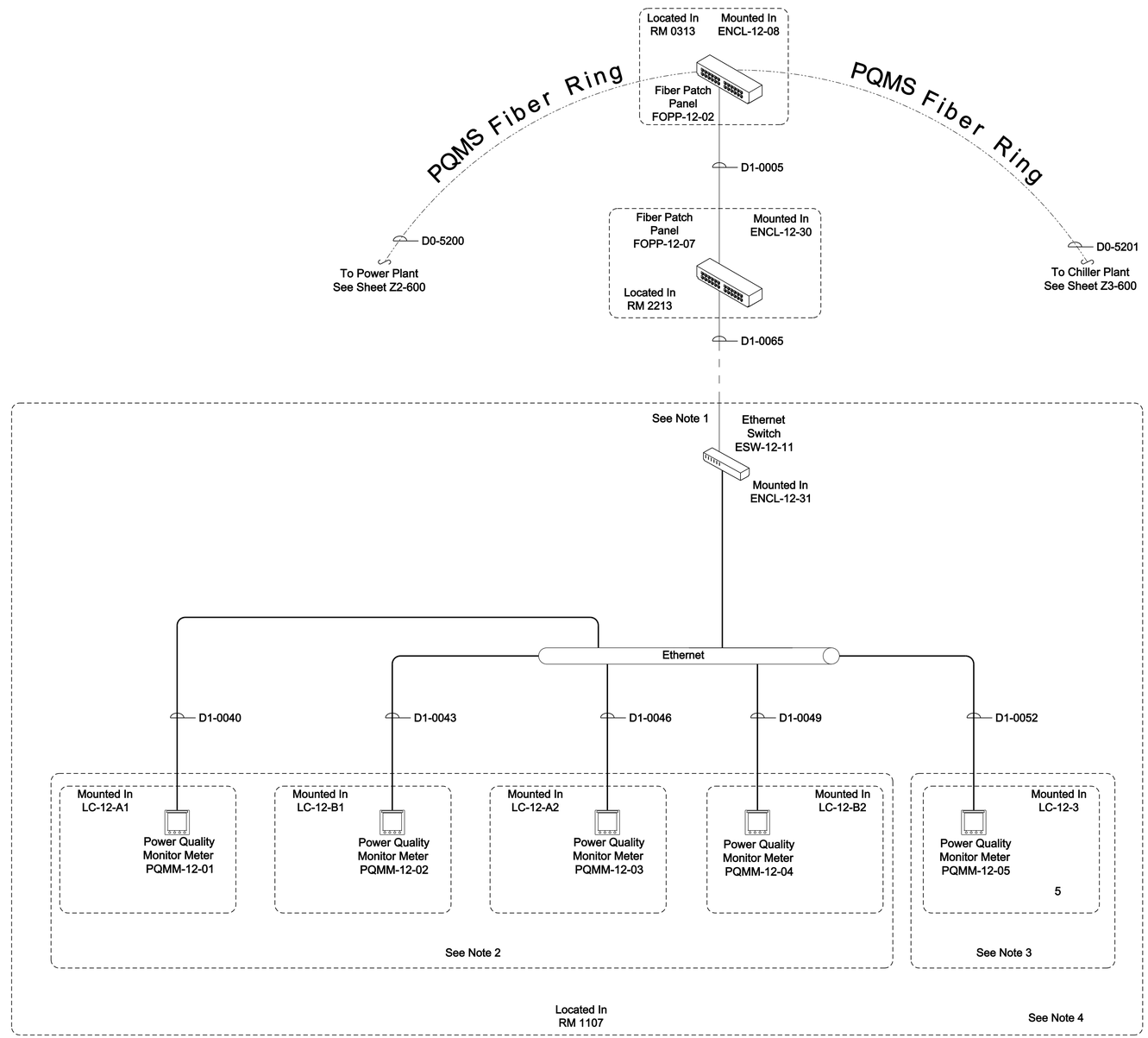
Each PQM shall be time synchronized to within 1 millisecond using IRIG-B time reference from the Powerplant time server. This synchronized time shall be used to timestamp PQM data to within 1 millisecond.

2.2.2 Communication Interface

Communication ports and functionality shall be provided as specified in subpart COMMUNICATIONS CHANNELS. A dedicated RJ-45 port shall be provided on the PQM or associated PQM graphical display for local meter

NOTES:

1. Cisco IE3000 Industrial Ethernet Switch or Approved Equal
2. Square-D PowerLogic Power Meter CM4000T or Approved Equal
3. Square-D PowerLogic Power Meter PM870 or Approved Equal
4. I/O Point Sheets Start At Z1-760.



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ISSUED FOR CONSTRUCTION

ACTIVITY MANAGER:
DATE: 10-25-2011

Mark	Description	Date	App.

Designed by: E. LA BOUNTY		Date: OCT 25, 2011	Rev. 0
Dwn by: NEH	Ckd by: BWT	Project No. 23051	
RSFO Project Manager Andrea de la Peña		Drawing Number: F-141-62-100	
Submitted by: John R. Hassed Project Manager		File name: 1023051-Z1-604.dgn Plot date: 10/20/2011 Plot scale: 1	

MOUNTAINVIEW
Buckley AFB, Denver, CO

OPERATIONS BUILDING
PQMS NETWORK

Drawing No.
59779

Sheet Reference No.
Z1-604
Sheet 481 of 497

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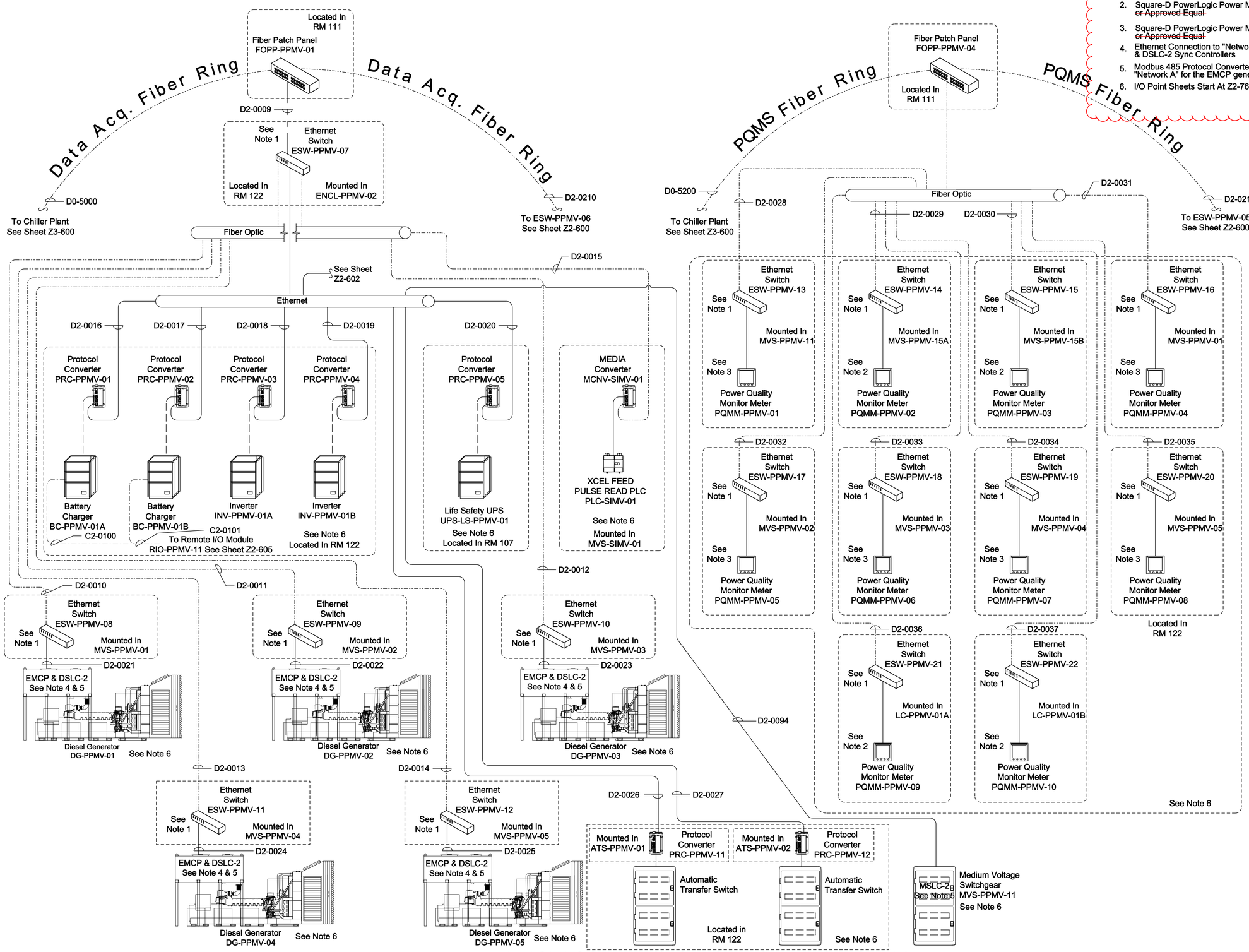
...\DGN\1023051-Z1-604.dgn

NOTES:

1. Cisco IE3000 Industrial Ethernet Switch or Approved Equal
2. Square-D PowerLogic Power Meter PM870 ~~or Approved Equal~~
3. Square-D PowerLogic Power Meter CM4000T ~~or Approved Equal~~
4. Ethernet Connection to "Network A" for MSLC-2 & DSLC-2 Sync Controllers
5. Modbus 485 Protocol Converter to Ethernet on "Network A" for the EMCP generator controller
6. I/O Point Sheets Start At Z2-760.



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ACTIVITY MANAGER:
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Designed by: E. LA BOUNTY		Date: OCT 25, 2011	Rev. 0
Dwn by: NEH	Ckd by: BWT	Project No. 23051	
RSFO Project Manager Andrea de la Peña		Drawing Number: F-141-62-100	
Submitted by: John R. Hassed Project Manager		File name: 1023051-Z2-601.dgn Plot date: 10/20/2011 Plot scale: 1	

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POWER PLANT
DATA ACQUISTION & PQMS
NETWORK DIAGRAM

Drawing No.
60105

Sheet Reference No.
Z2-601
Sheet 304 of 329

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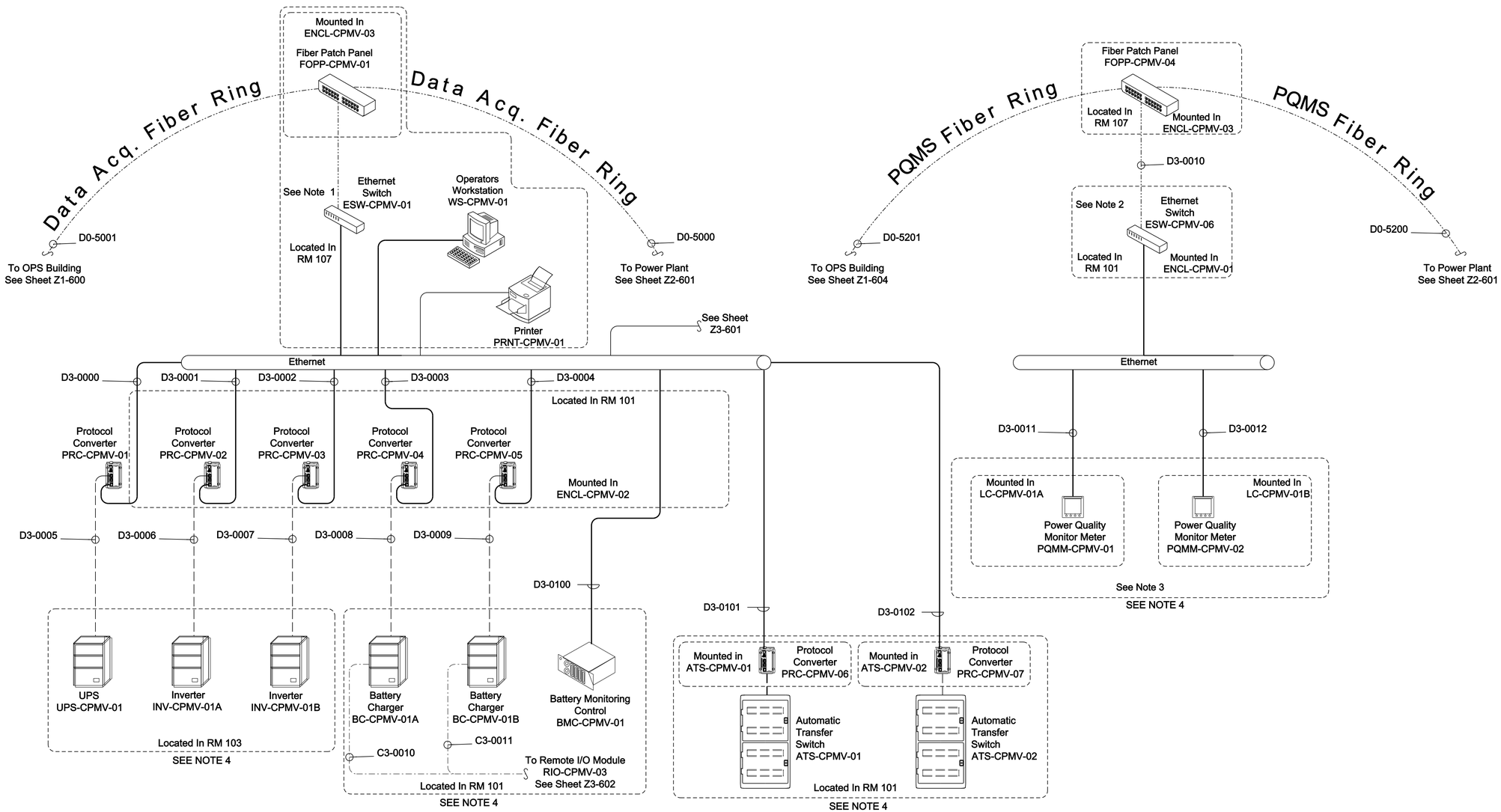
NOTES:

1. Cisco 3750 or Approved Equal
2. Cisco IE3000 Industrial Ethernet Switch or Approved Equal
3. Square-D PowerLogic Power Meter PM870 ~~or Approved Equal~~
4. I/O Point Sheets Start At Z3-760.



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Dwn by: NEH	Ckd by: BWT	Project No. 23051	
RSFO Project Manager Andrea de la Peña		Drawing Number: F-141-62-100	
Submitted by: John R. Hassed Project Manager		File name: 1023051-Z3-600.dgn Plot date: 10/20/2011 Plot scale: 1	

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CHILLER PLANT
DATA ACQUISTION & PQMS
NETWORK DIAGRAM

Drawing No.
60294

Sheet Reference No.
Z3-600
Sheet 173 of 181

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