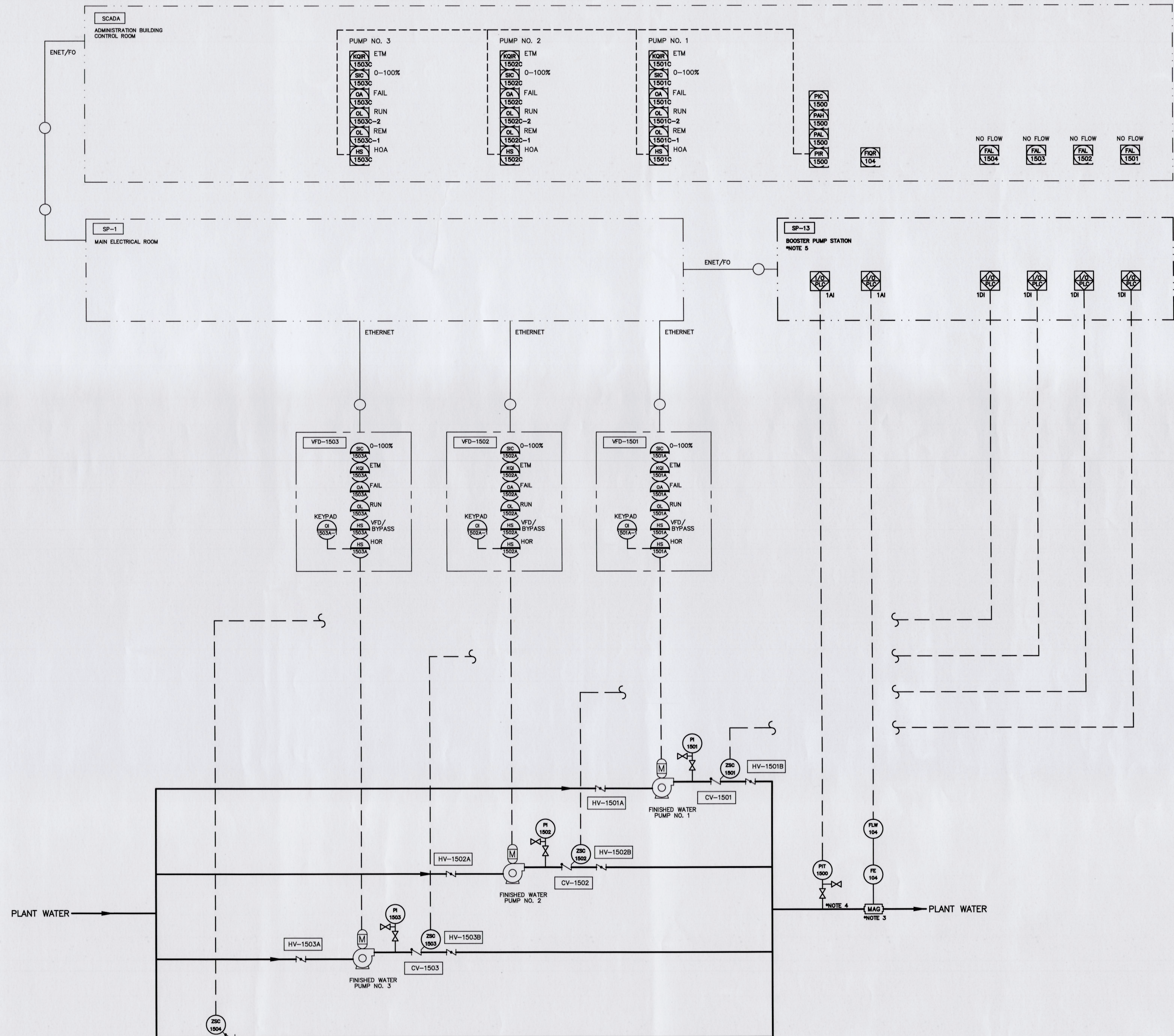
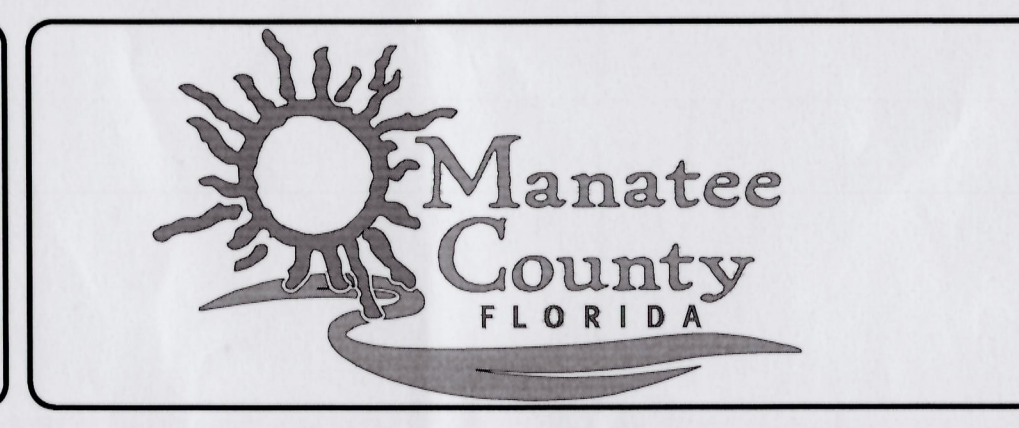
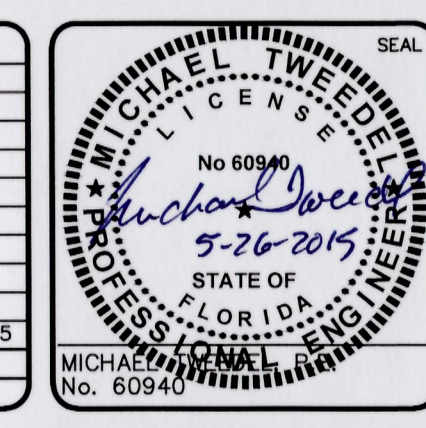




- NOTES:
1. ALL EQUIPMENT SHOWN IN BOLD IS NEW AND TO BE INCLUDED. EXISTING EQUIPMENT IS SHOWN AS GRAY.
 2. VFDs CONNECTED TO NETWORK VIA ETHERNET SWITCH LOCATED IN EXISTING CONTROL PANEL. ETHERNET CABLING SHALL BE ARMORED CAT5.
 3. EXISTING MAGNETIC FLOW METER TO BE RELOCATED AS PART OF PIPING MODIFICATIONS. SEE MECHANICAL DRAWINGS FOR DETAILS. FLOW METER CALIBRATION SHALL BE VERIFIED AS ACCORDING TO SPECIFICATIONS REQUIREMENTS. PROVIDE CALIBRATION REPORT.
 4. EXISTING PRESSURE TRANSMITTER TO BE RELOCATED AS PART OF PIPING MODIFICATIONS. SEE MECHANICAL DRAWINGS FOR DETAILS. PROVIDE ADDITIONAL PROCESS PIPING AND ACCESSORIES AS REQUIRED PER SPECIFICATION REQUIREMENTS. TRANSMITTER SHALL BE CALIBRATED AND TESTED ACCORDING TO SPECIFICATIONS AND PROVIDE CALIBRATION REPORT.
 5. EXISTING SP-13 PLC PANEL TO BE RELOCATED AS PART OF PIPING MODIFICATIONS. SEE MECHANICAL AND ELECTRICAL SHEETS FOR DETAILS. REMOVE EXISTING ALLEN-BRADLEY MICROLOGIX 1100 PLC FROM PANEL. PROVIDE AND INSTALL ALLEN-BRADLEY COMPACTLOGIX 1769-L33ER, SEE SPECIFICATION FOR DETAILS.

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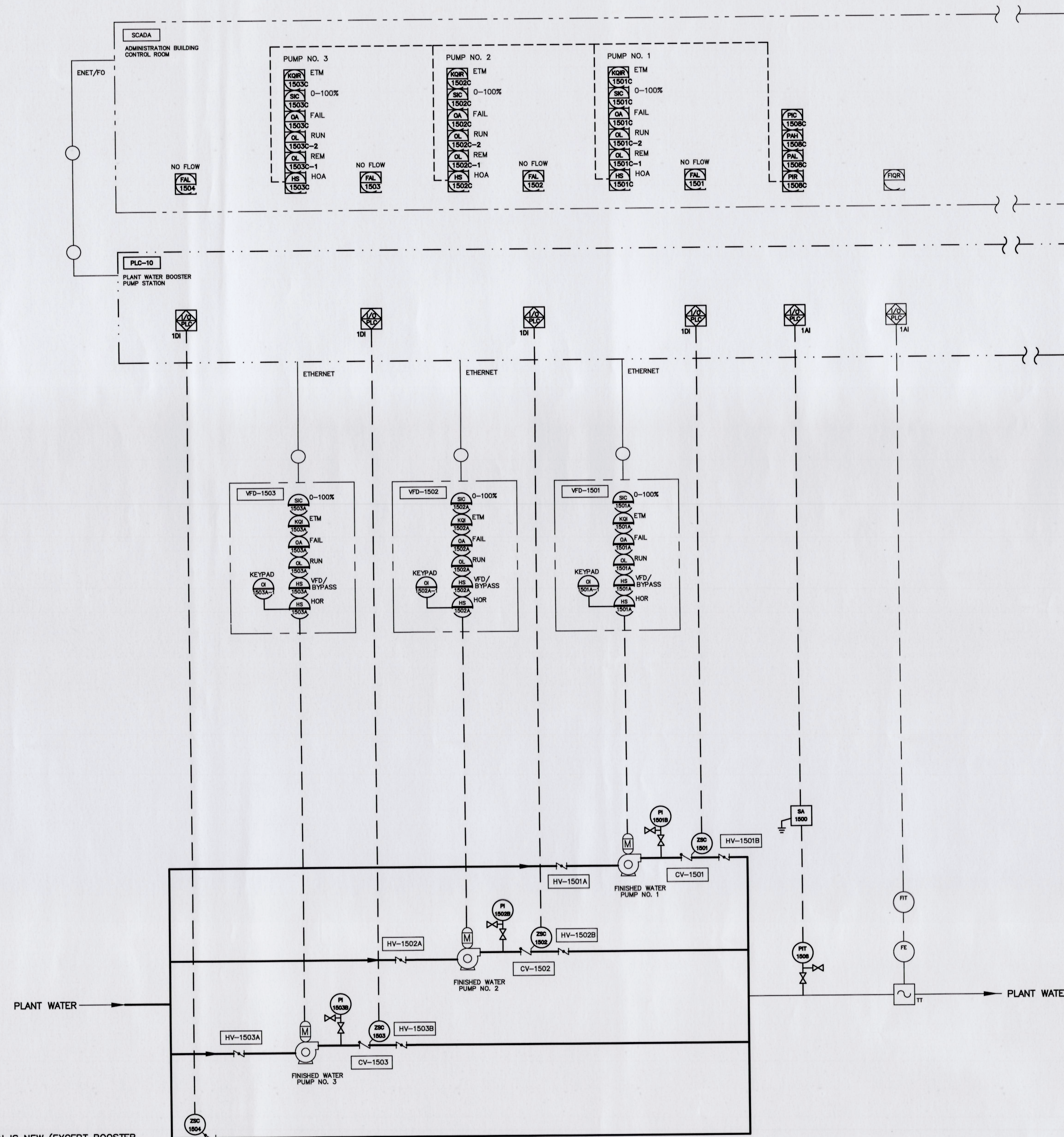
REV. NO.	DESCRIPTION	DATE
ADDENDUM #4		MAY 2015
	REVISIONS	



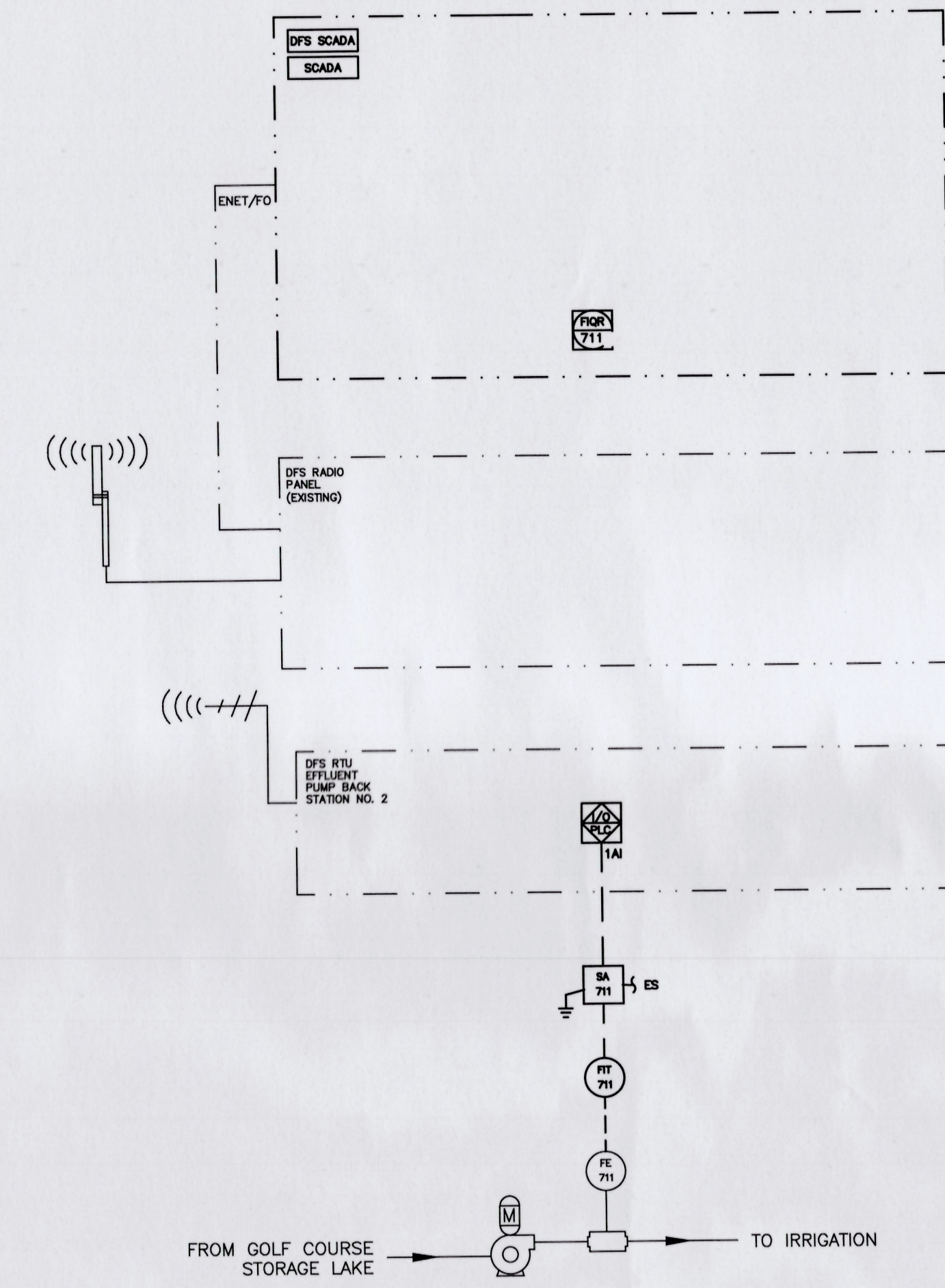
MANATEE AGRICULTURAL REUSE SYSTEM-MANAGEMENT IMPROVEMENTS

P&ID SSWRF PLANT WATER BOOSTER PUMP STATION

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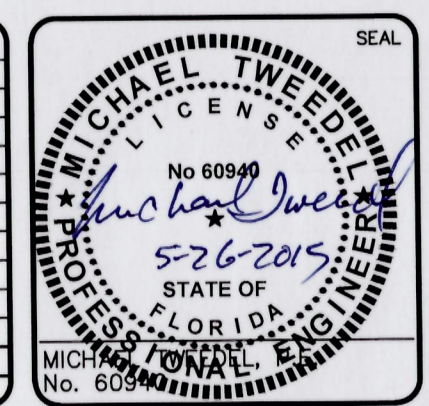
PLANT WATER BOOSTER PUMP STATION



BUFFALO CREEK FLOW MONITORING

- NOTES:
1. ALL EQUIPMENT SHOWN IS NEW (EXCEPT BOOSTER FLOW METER) AND TO BE INCLUDED.
 2. VFDs SHALL BE CONNECTED TO NETWORK VIA ETHERNET SWITCH LOCATED IN NEW CONTROL PANEL. ETHERNET CABLING SHALL BE ARMORED CAT5.

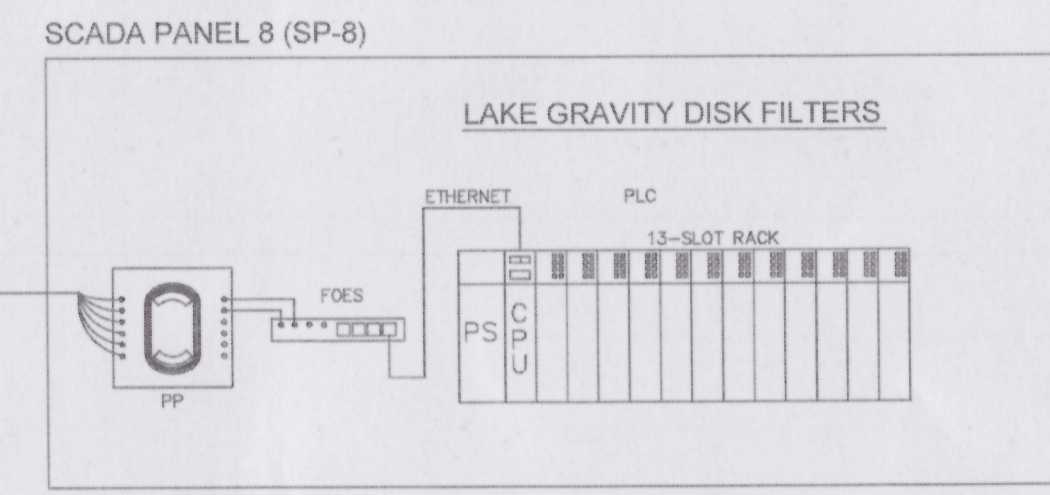
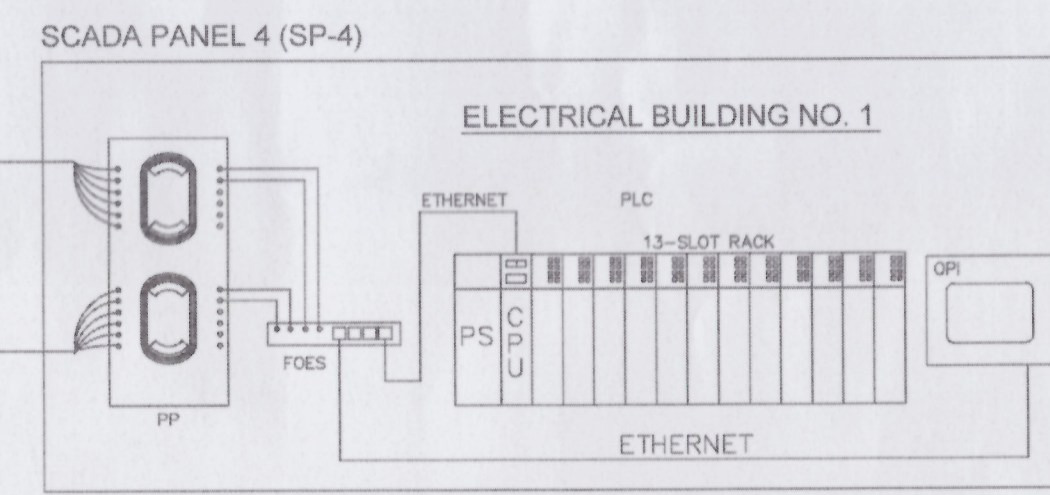
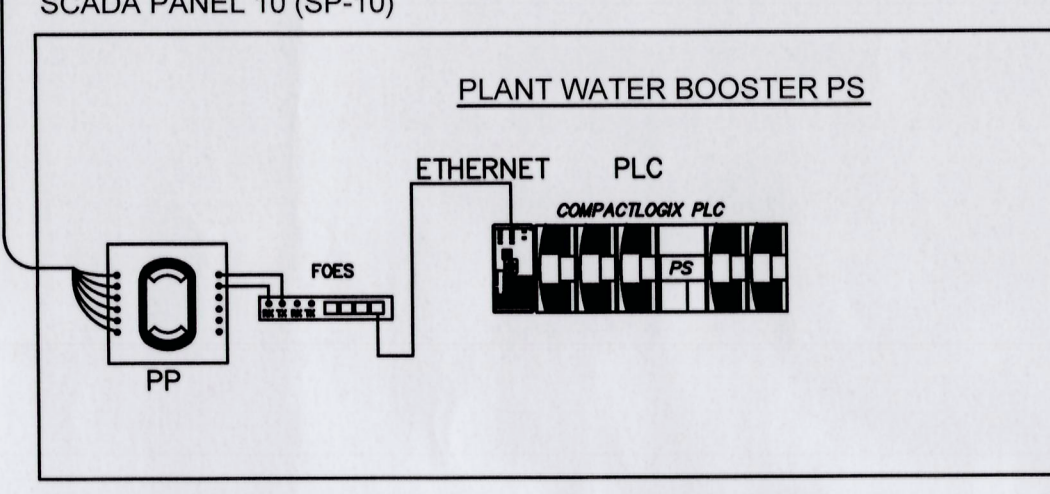
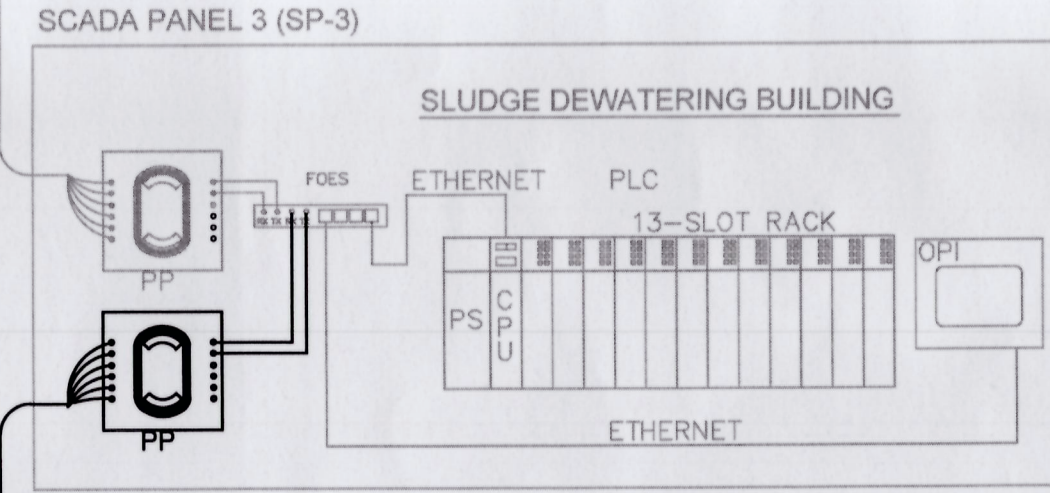
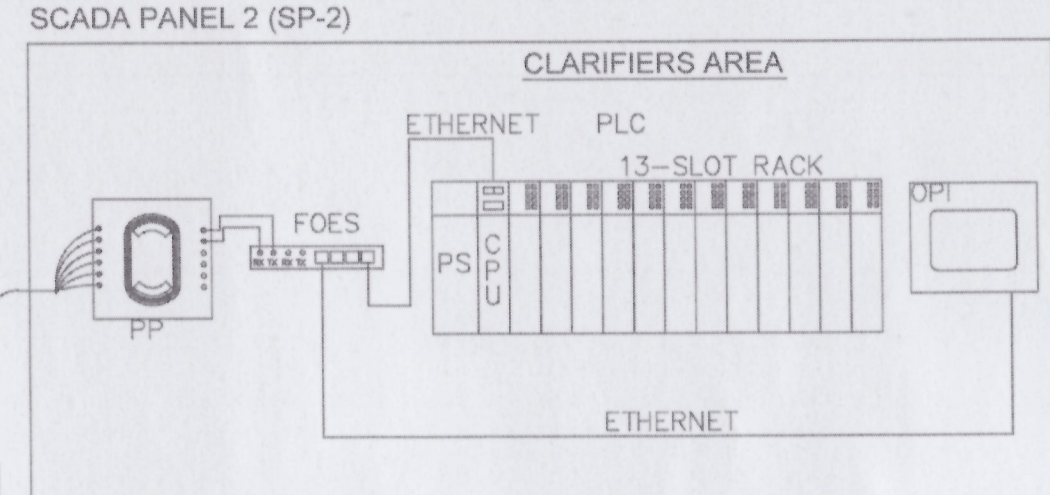
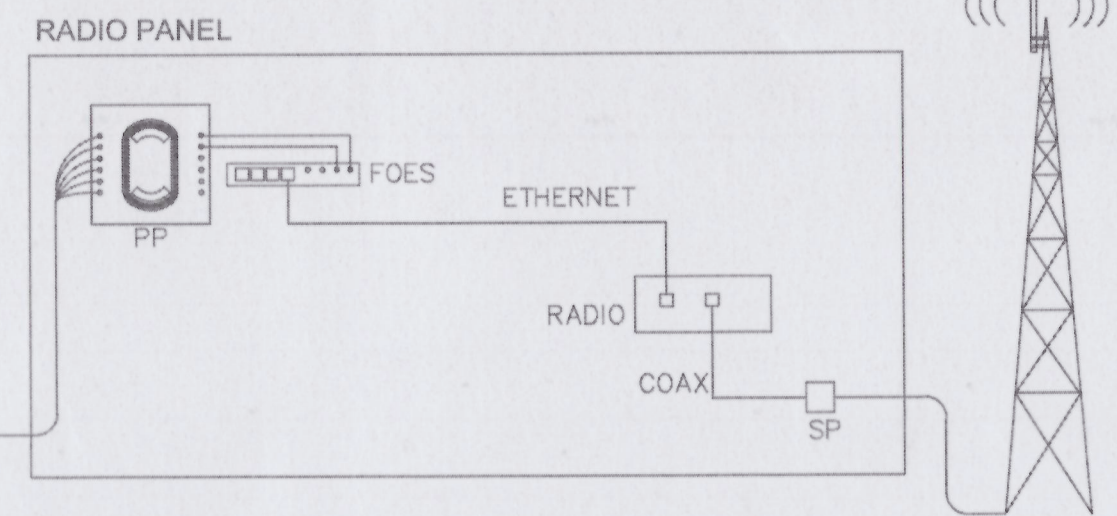
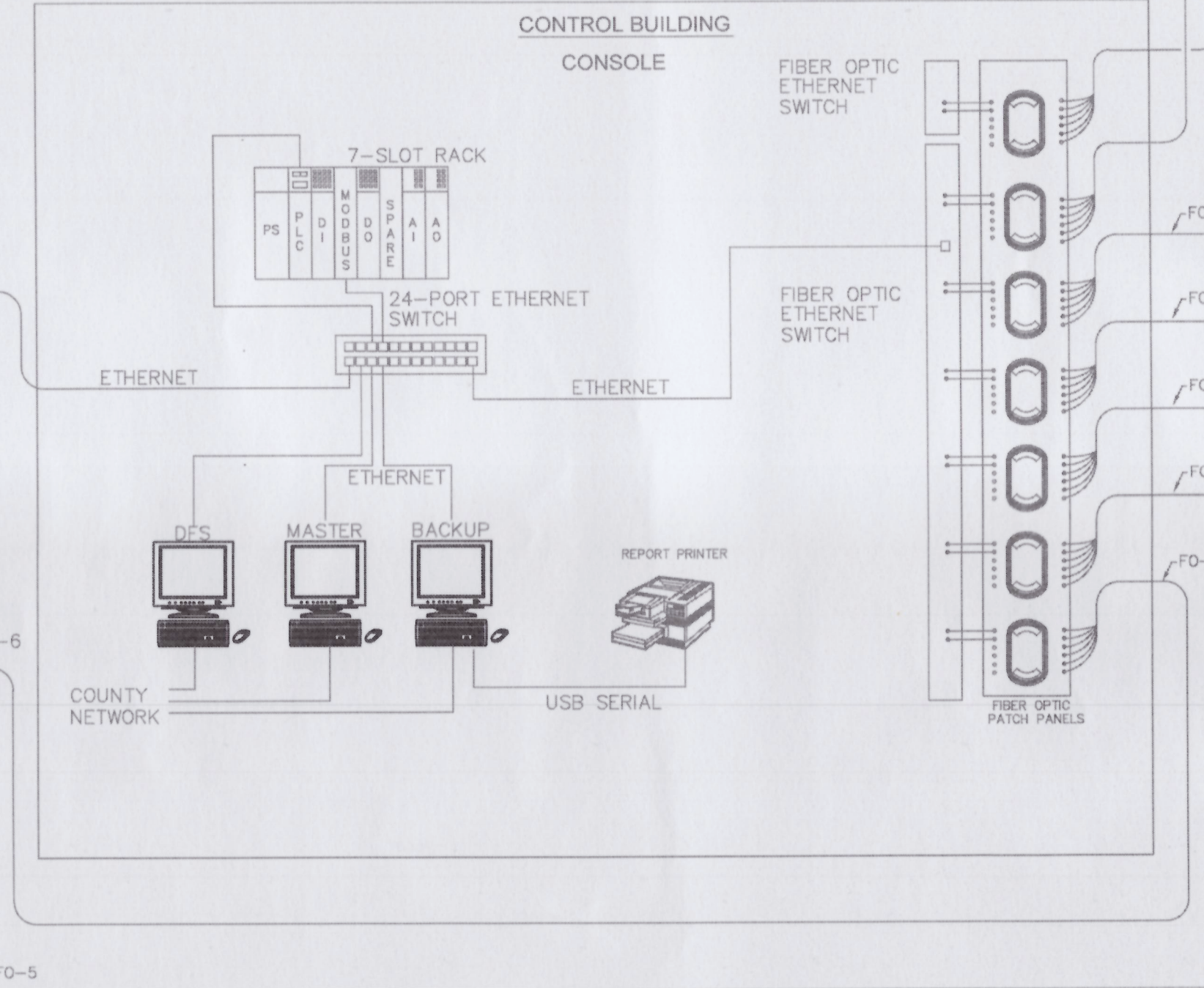
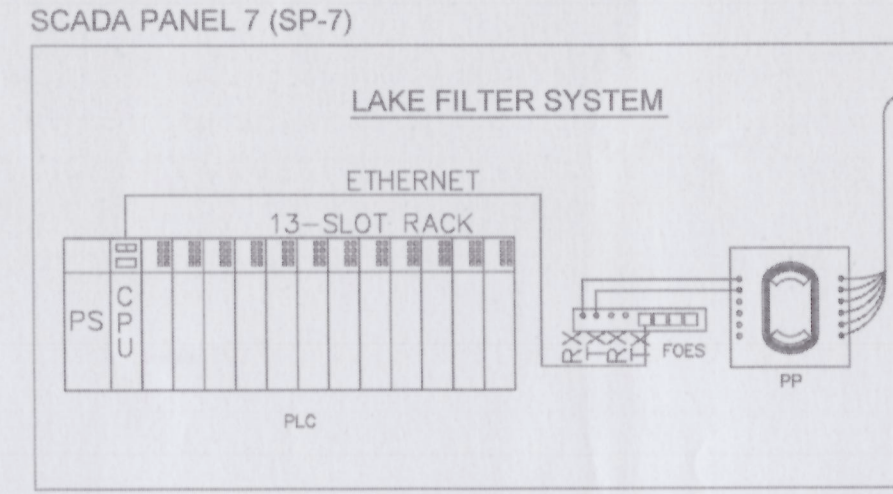
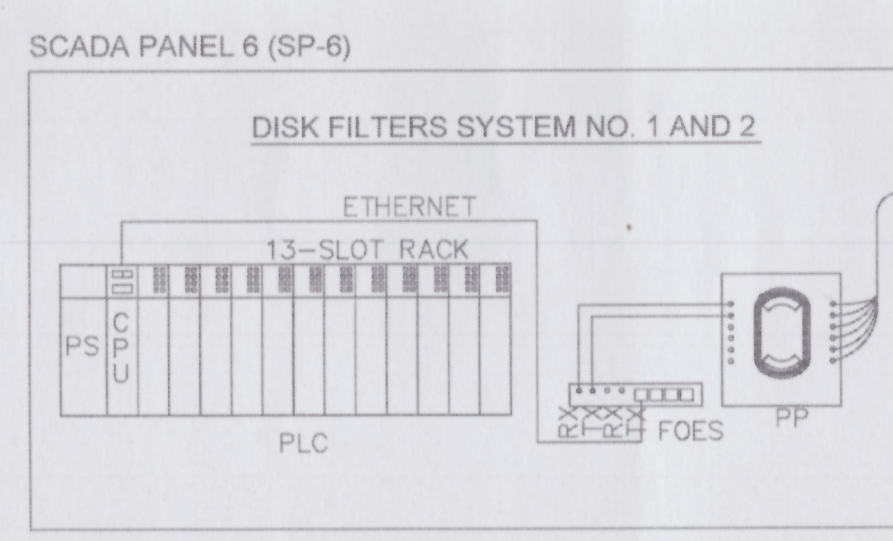
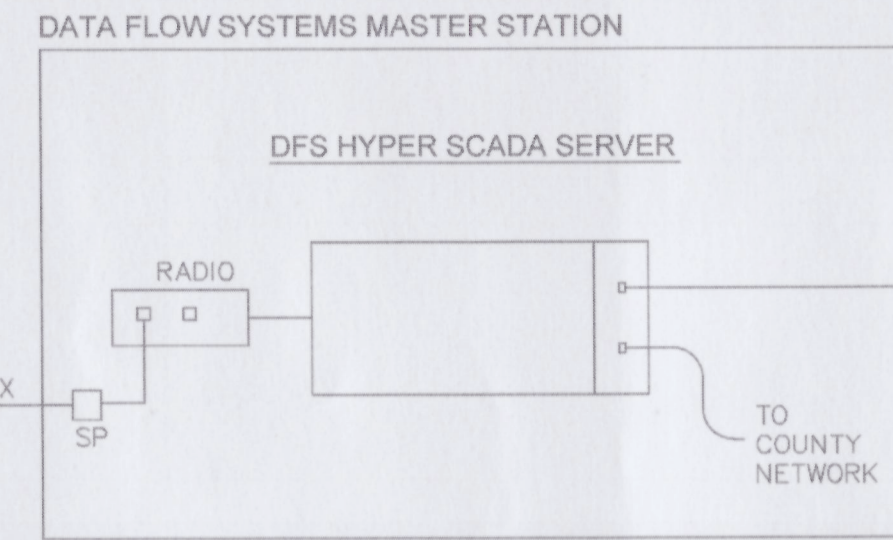
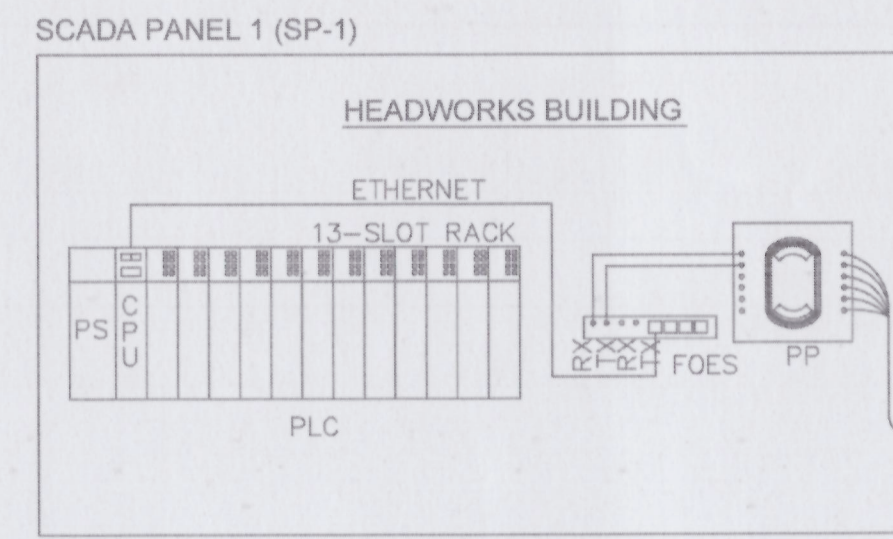
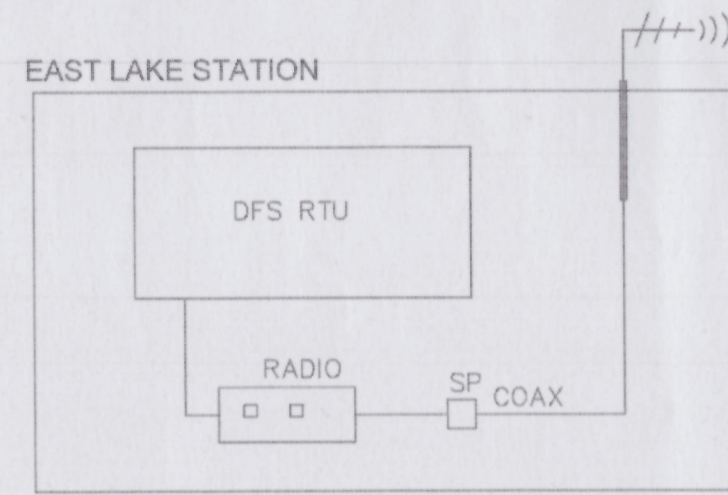
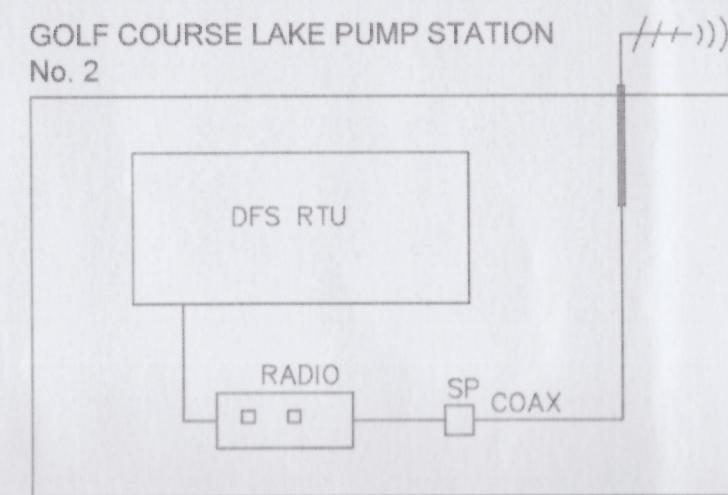
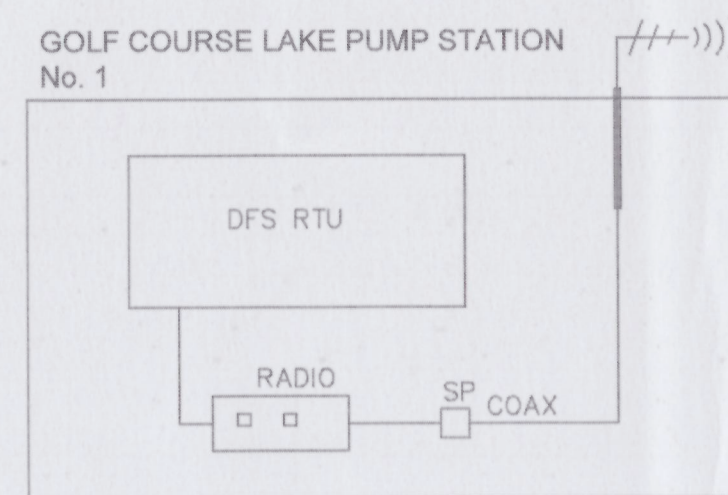
REV. NO.	DESCRIPTIONS	DATE
ADDENDUM #4		MAY 2015



MANATEE AGRICULTURAL REUSE
SYSTEM-MANAGEMENT IMPROVEMENTS

P&ID NWRP PLANT WATER
BOOSTER PS AND BUFFALO
CREEK FLOW MONITORING

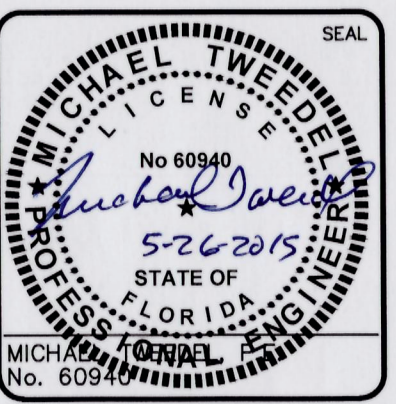
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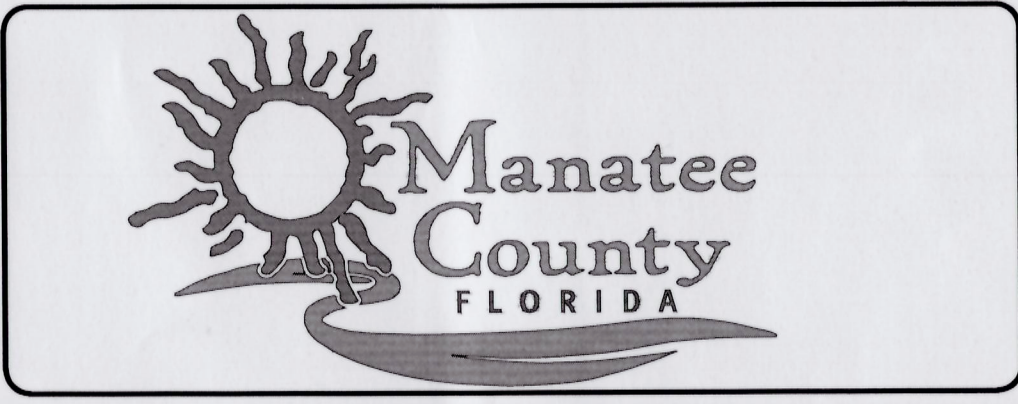
- NOTES:
- HIGHLIGHTED ITEMS INDICATE EQUIPMENT TO BE PROVIDED AS PART OF THIS PROJECT. GREY ITEMS INDICATE EXISTING EQUIPMENT.
 - COORDINATE EQUIPMENT IP ADDRESSING STRUCTURE WITH THE OWNER.
 - UPGRADE GOLF COURSE LAKE PUMP STATION NO.2 TO INCORPORATE THE I/O REQUIREMENTS FOR BUFFALO CREEK GOLF COURSE IRRIGATION PUMP STATION FLOW METER.

LEGEND	
FO-X	FIBER OPTIC CABLE IDENTIFICATION NUMBER
FOES	MANAGED FIBER OPTIC ETHERNET SWITCH
PP	FIBER OPTIC PATCH PANEL
PLC	PROGRAMMABLE LOGIC CONTROLLER
OPI	LOCAL OPERATOR INTERFACE
SP	SURGE PROTECTOR

REV. NO.	DESCRIPTION	DATE
ADDENDUM #4		MAY 2015



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**MANATEE AGRICULTURAL REUSE
SYSTEM-MANAGEMENT IMPROVEMENTS**

NWRF NETWORK DIAGRAM

DATE: MARCH 2015	SCALE	MAC FILE NUMBER
MCE PROJ. # 1024-0164	HORIZONTAL: NA	DRAWING NUMBER
DRAWN: EEB	VERTICAL: NA	110
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