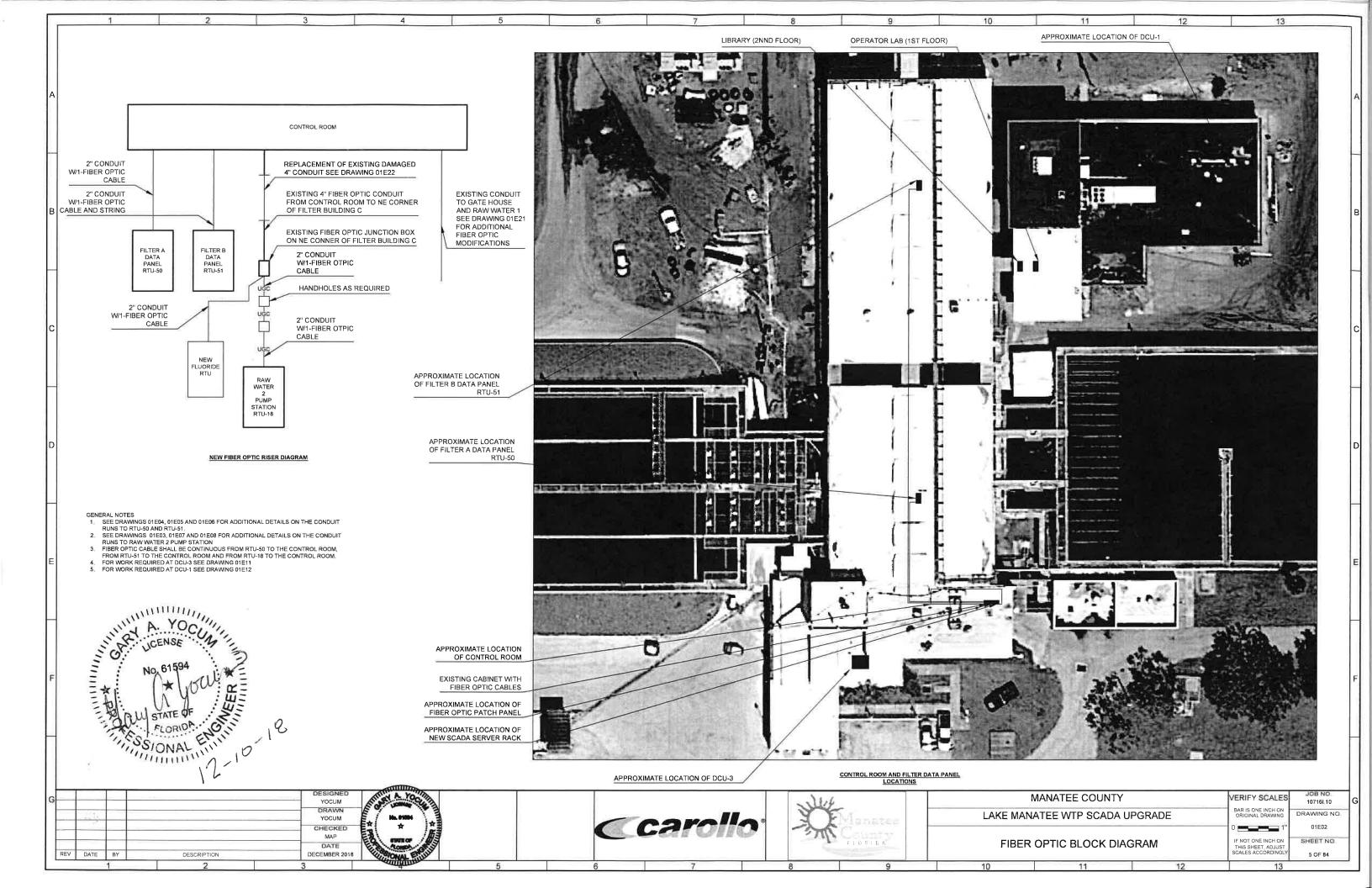
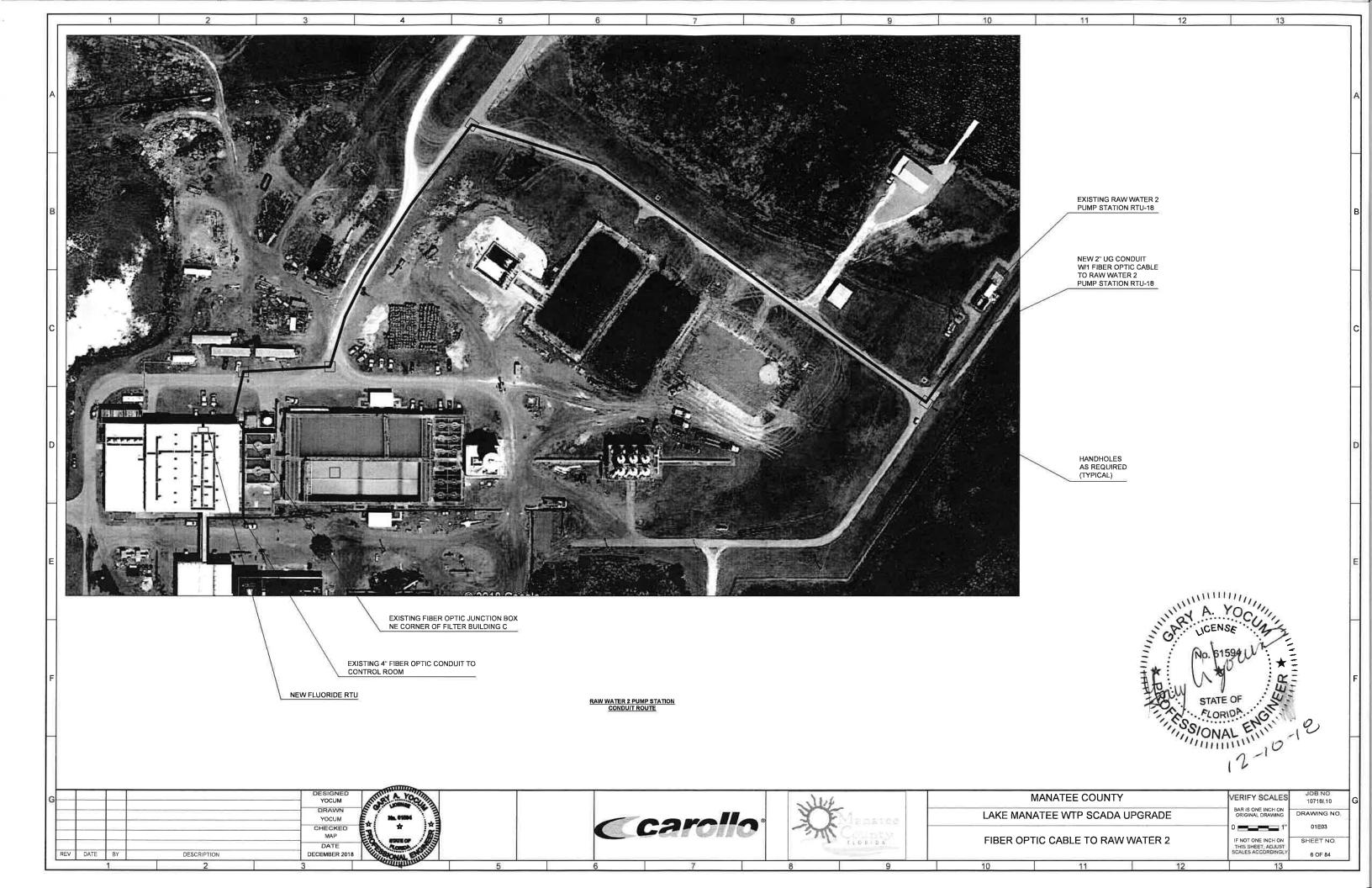
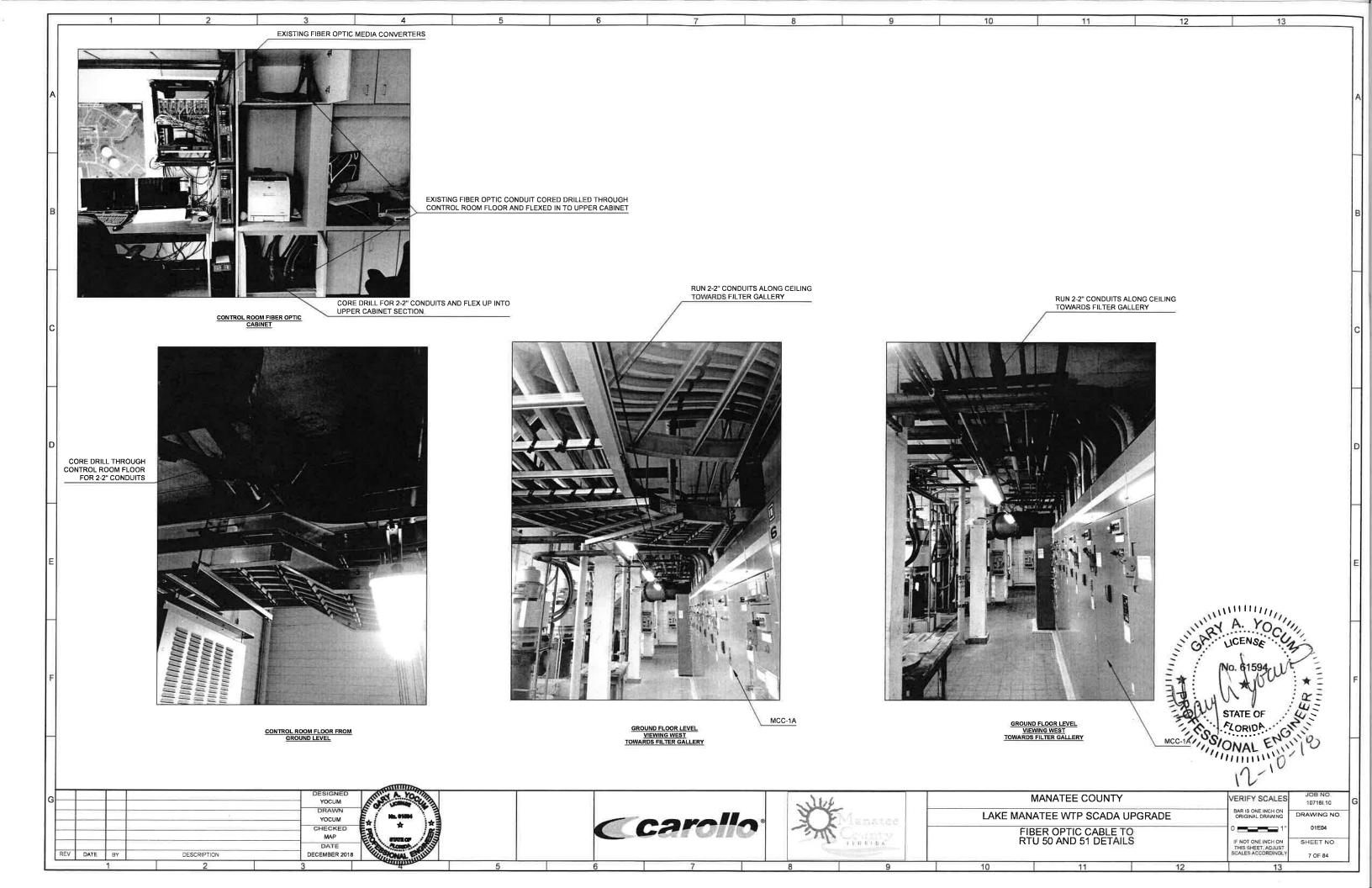


REMOVE EXISTING FIBER OPTIC PATCH PANEL (THERE DOES NOT APPEAR TO BE ANY FO CABLES LOCATED IN THIS PATCH PANEL) EXISTING FIBER OPTIC MEDIA CONVERTERS REMOVE ALL EXISTING PATCH PLATES AND PATCH CORDS FROM EXISTING FIBER OPTIC CABLES RELOCATE SECURITY CAMERA NETWORK EQUIPMENT TO SHELF ROUTE 9 EXISTING FIBER OPTIC CABLES AND 3 NEW FIBER OPTIC CABLES FROM UPPER CABINET TO NEW ON NEW 19" MINI RACK FIBER OPTIC PATCH PANEL IN SERVER RACK IF POSSIBLE. IF NOT POSSIBLE, ROUTE FIBER OPTIC CABLES TO NEW FIBER OPTIC PATCH PANEL IN EXISTING RACK PROVIDE AND INSTALL A 19" 4U FIBER OPTIC CABLE PATCH PANEL WITHIN THIS AREA IF REQUIRED (I.E. IF EXISTING FIBER OPTIC CABLES ARE TOO SHORT TO REACH NEW SERVER RACK AREA.) PROVIDE AND INSTALL A MINI 19" RACK (6 OR 8U) AND SHELF FOR SECURITY CAMERA NETWORKING EQUIPMENT. PROPOSED LOCATION OF NEW 19" RACK FOR SCADA SERVERS EXISTING TABLE AND TERMINALS SHALL BE REMOVED AND RELOCATED BY OWNER. SIONATIV MANATEE COUNTY VERIFY SCALES 107161.10 DRAWN LAKE MANATEE WTP SCADA UPGRADE YOCUM 01E01 CHECKED MAP IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY SHEET NO. CONTROL ROOM MODIFICATIONS DATE DATE DECEMBER 2018 4 OF 84 DESCRIPTION

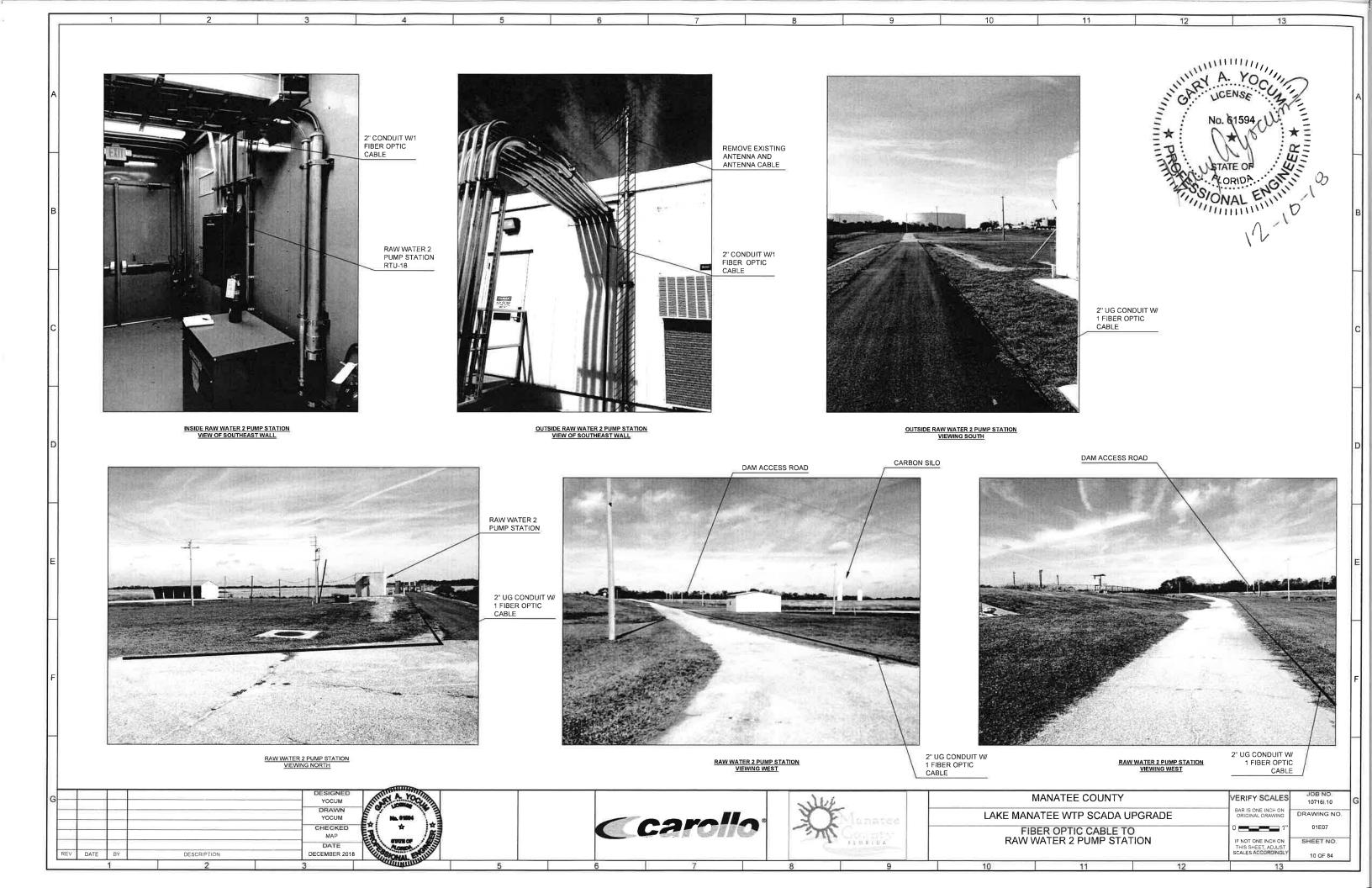


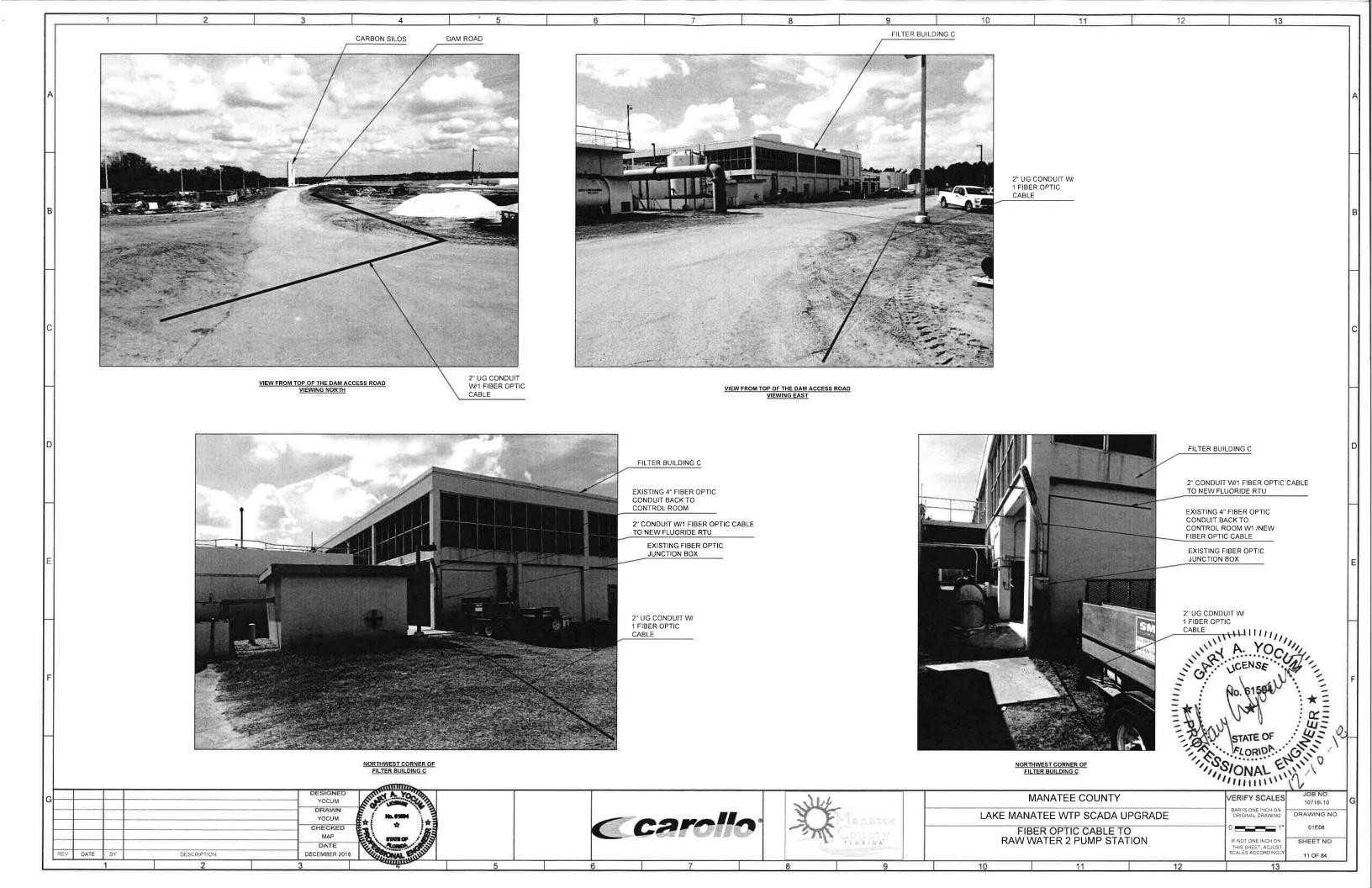


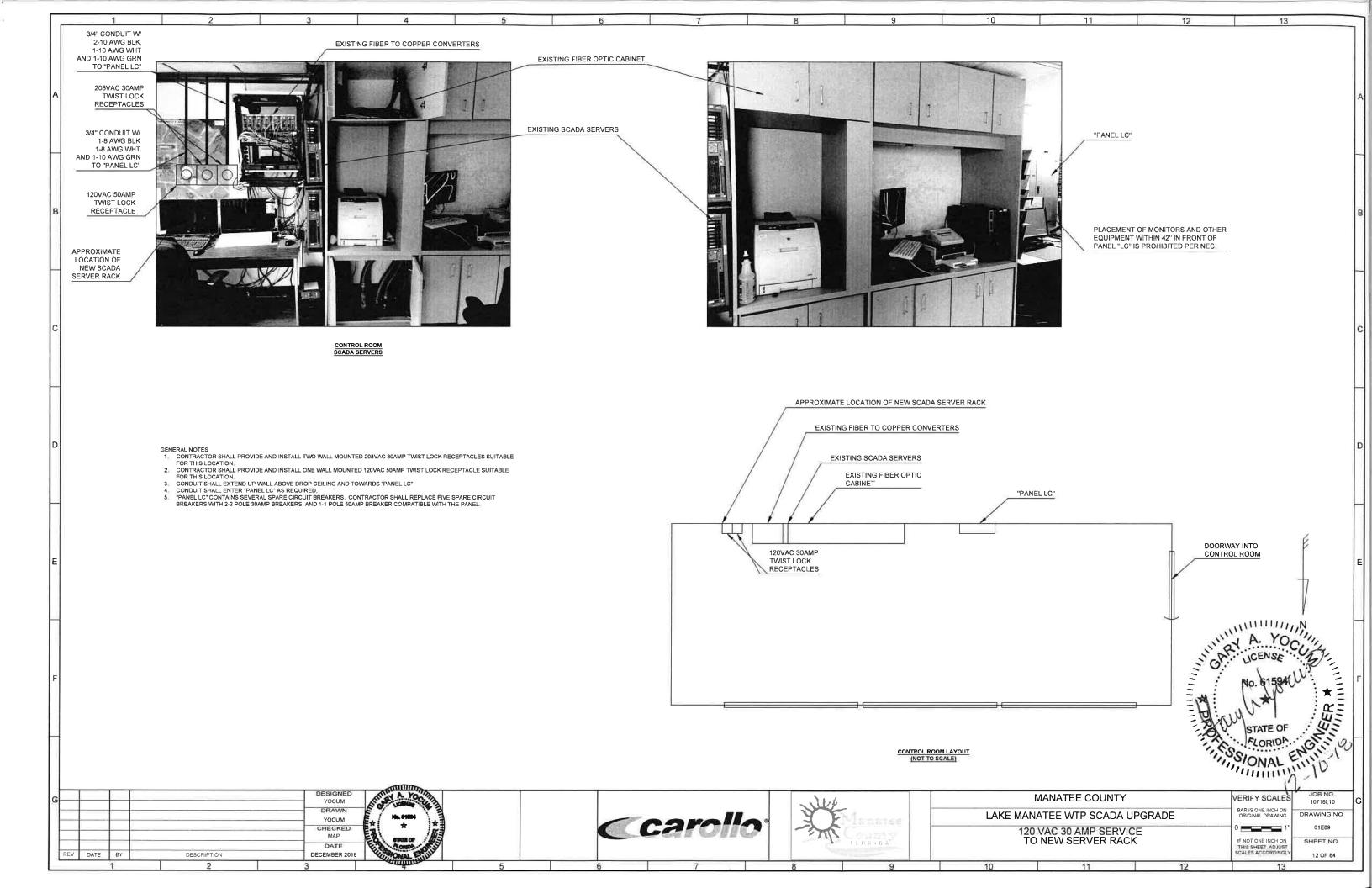


CONTINUE WITH 1-2" CONDUIT ALONG CEILING IN FILTER GALLERY A TOWARDS FILTER B DATA PANEL RTU-51 RUN 2-2" CONDUIT ALONG CEILING IN FILTER GALLERY A RUN 2-2" CONDUIT ALONG CEILING IN FILTER GALLERY A 2" CONDUIT W/1 FIBER OPTIC CABLE FILTER A DATA PANEL RTU-50 BACKSIDE OF MCC-1A FILTER GALLERY A
VIEWING NORTH
TOWARDS FILTER GALLERY B FILTER GALLERY A
VIEWING NORTH
TOWARDS FILTER GALLERY B FILTER GALLERY A
VIEWING SOUTH
TOWARDS CONTROL ROOM JOB NO. 10716I.10 DESIGNED MANATEE COUNTY VERIFY SCALES DRAWN BAR IS ONE INCH ON ORIGINAL DRAWING LAKE MANATEE WTP SCADA UPGRADE Carollo YOCUM 01E05 CHECKED FIBER OPTIC CABLE TO RTU 50 AND 51 DETAILS FLORIDA MAP IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY SHEET NO. DATE REV DATE BY DECEMBER 2018 8 OF 84 DESCRIPTION

PENETRATE FILTER GALLERY A
WALL AND EXTEND 1" CONDUIT ON
EXISTING RACK INTO FILTER
GALLERY B - PROVIDE EXPANSION
COUPLING AS REQUIRED 1-2" CONDUIT ALONG CEILING WITHIN FILTER GALLERY A TOWARDS FILTER B DATA PANEL RTU-51 PENETRATE FILTER GALLERY B WALL WITH 1-2" CONDUIT - PROVIDE EXPANSION COUPLING AS REQUIRED TOWARDS END OF FILTER GALLERY A CONDUIT NEEDS TO CROSS OVER FILTER GALLERY A
VIEWING SOUTH
FROM OUTSIDE FILTER GALLERY A FILTER GALLERY B VIEWING NORTH FROM OUTSIDE FILTER GALLEY B FILTER GALLERY A
VIEWING NORTH
TOWARDS FILTER GALLERY B GALLERY AND LOWER IN ORDER TO LAND ON EXISTING CONDUIT RACK EXTEND 2" CONDUIT ALONG CEILING OF FILTER GALLERY B TOWARDS FILTER B DATA PANEL RTU-51 CONTINUE 2" CONDUIT ALONG CEILING OF FILTER GALLERY B TOWARDS FILTER B DATA PANEL RTU-51 2" CONDUIT W/1 FIBER OPTIC CABLE AND PULL STRING FILTER B DATA PANEL RTU-51 SIONAL FILTER GALLERY B MANATEE COUNTY VERIFY SCALES YOCUM DRAWN BAR IS ONE INCH ON ORIGINAL DRAWING LAKE MANATEE WTP SCADA UPGRADE YOCUM CHECKED FIBER OPTIC CABLE TO RTU 50 AND 51 DETAILS 01E06 MAP IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY SHEET NO 110210A DATE REV DATE BY DESCRIPTION DECEMBER 2018 9 OF 84







3/4" CONDUIT W/ 1-10 AWG BLK 1-10 AWG WHT AND 1-10 AWG GRN 120VAC 30AMP TWIST LOCK RECEPTACLE EXISTING SCADA RADIO PANEL APPROXIMATE LOCATION OF NEW SCADA RADIO PANEL FRONT STORAGE AREA OF ELEVATED TANK 120VAC 30AMP TWIST LOCK RECEPTACLE 3/4" CONDUIT BETWEEN 120/208 POWER DISTRIBUTION PANEL AND THE NEW TWIST LOCK RECEPTACLE EXISTING SCADA RADIO PANEL EXISTING 120/208 POWER DISTRIBUTION PANEL DOORWAY INTO ELEVATED TANK STORAGE AREA GENERAL NOTES
1. CONTRACTOR SHALL PROVIDE AND INSTALL A WALL MOUNTED 120VAC 30AMP TWIST LOCK RECEPTACLE SUITABLE FOR THIS LOCATION. FRONT STORAGE AREA THIS LOCATION.

CONDUIT SHALL EXTEND UP WALL ABOVE CEILING AND TOWARDS THE EXISTING 120/208 POWER DISTRIBUTION PANEL
CONDUIT SHALL ENTER THE EXISTING 120/208 POWER DISTRIBUTION PANEL AS REQUIRED,
THIS EXISTING 120/208 POWER DISTRIBUTION PANEL CONTRACTOR SHALL
REPLACE A SPARE CIRCUIT BREAKER WITH A 1 POLE 30AMP BREAKER COMPATIBLE WITH THE PANEL. STATE OF CORIDA MANATEE COUNTY VERIFY SCALES 107161.10 DRAWN LAKE MANATEE WTP SCADA UPGRADE YOCUM CHECKED 120 VAC 30 AMP SERVICE TO NEW SCADA RADIO 01E10 MAP SHEET NO. IF NOT ONE INCH ON DATE THIS SHEET, ADJUST SCALES ACCORDINGLY REV DATE DESCRIPTION DECEMBER 2018 13 OF 84

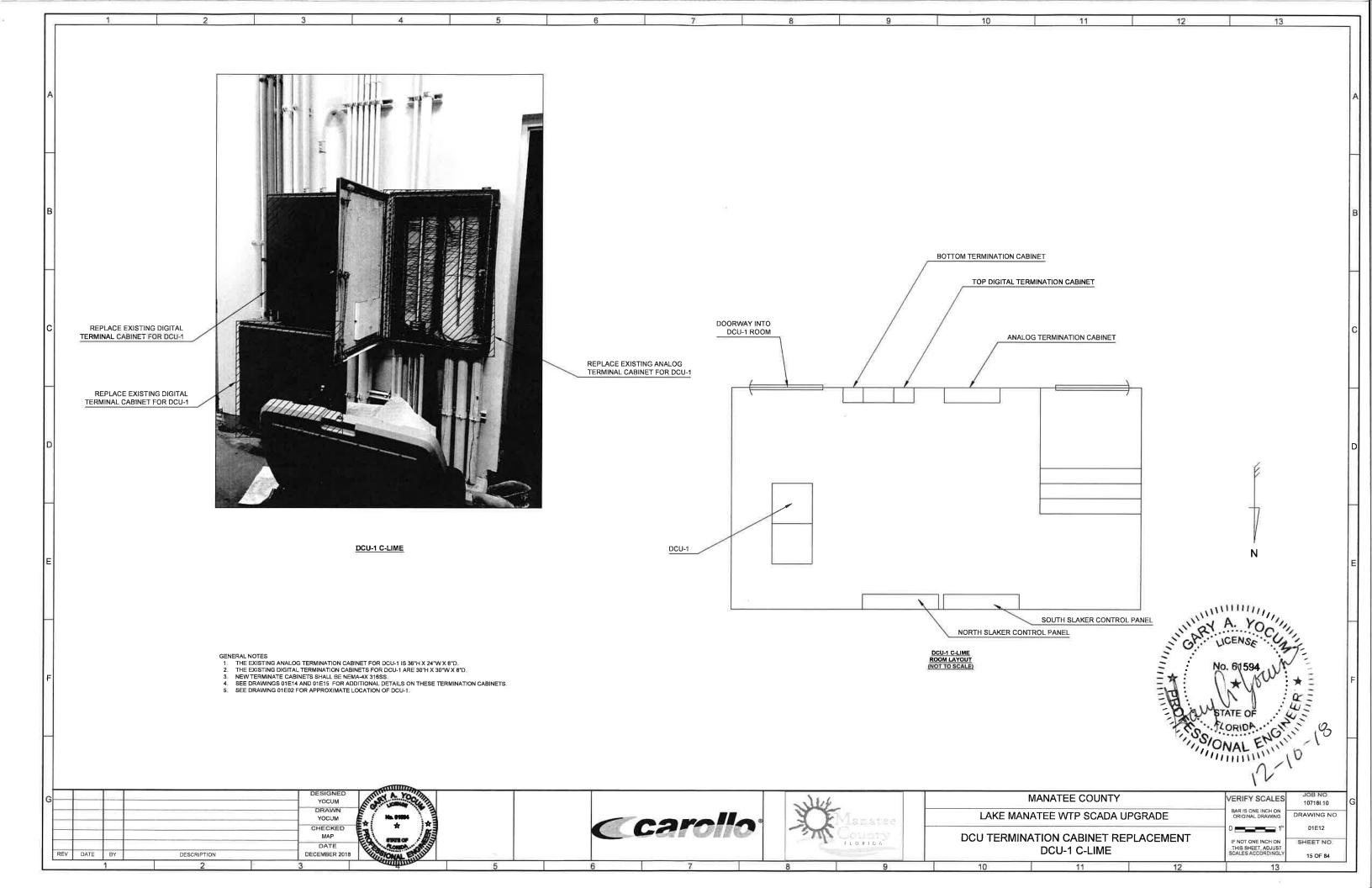
REPLACE EXISTING DIGITAL TERMINATION CABINET FOR DCU-3 2 DCU-3 ANALOG TERMINATION CABINET DCU-3 DIGITAL TERMINATION CABINET REPLACE EXISTING ANALOG TERMINATION CABINET FOR DCU-3 CONTROL ROOM UPS BYPASS SWITCH DCU-3 FILTER A/B CHEMICALS DCU-3 FILTER A/B CHEMICALS CONTROL ROOM UPS DCU-3 GENERAL NOTES

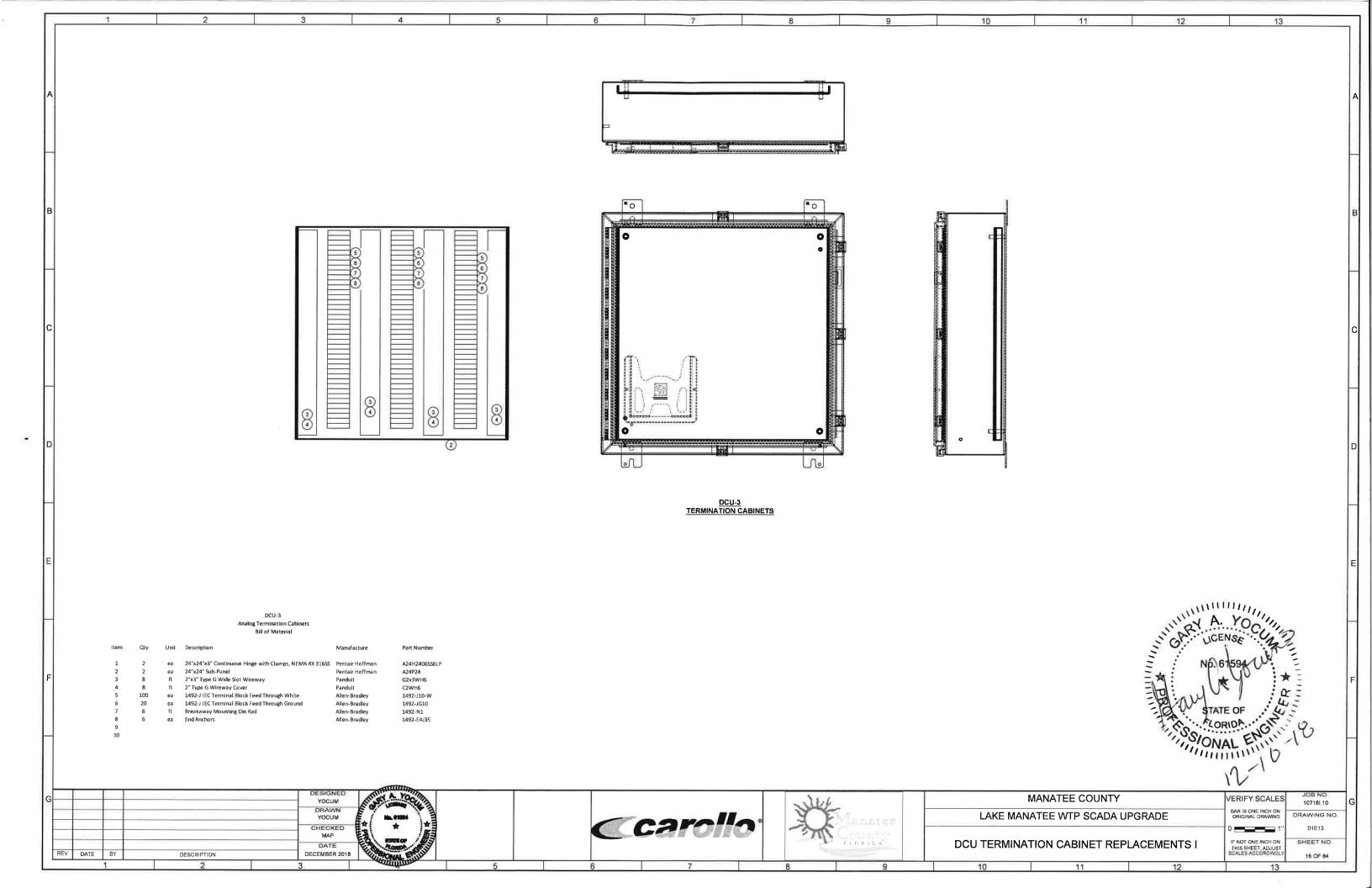
1. THE EXISTING TERMINATION CABINETS FOR DCU-3 ARE 24"H X 24"W X 6"D,

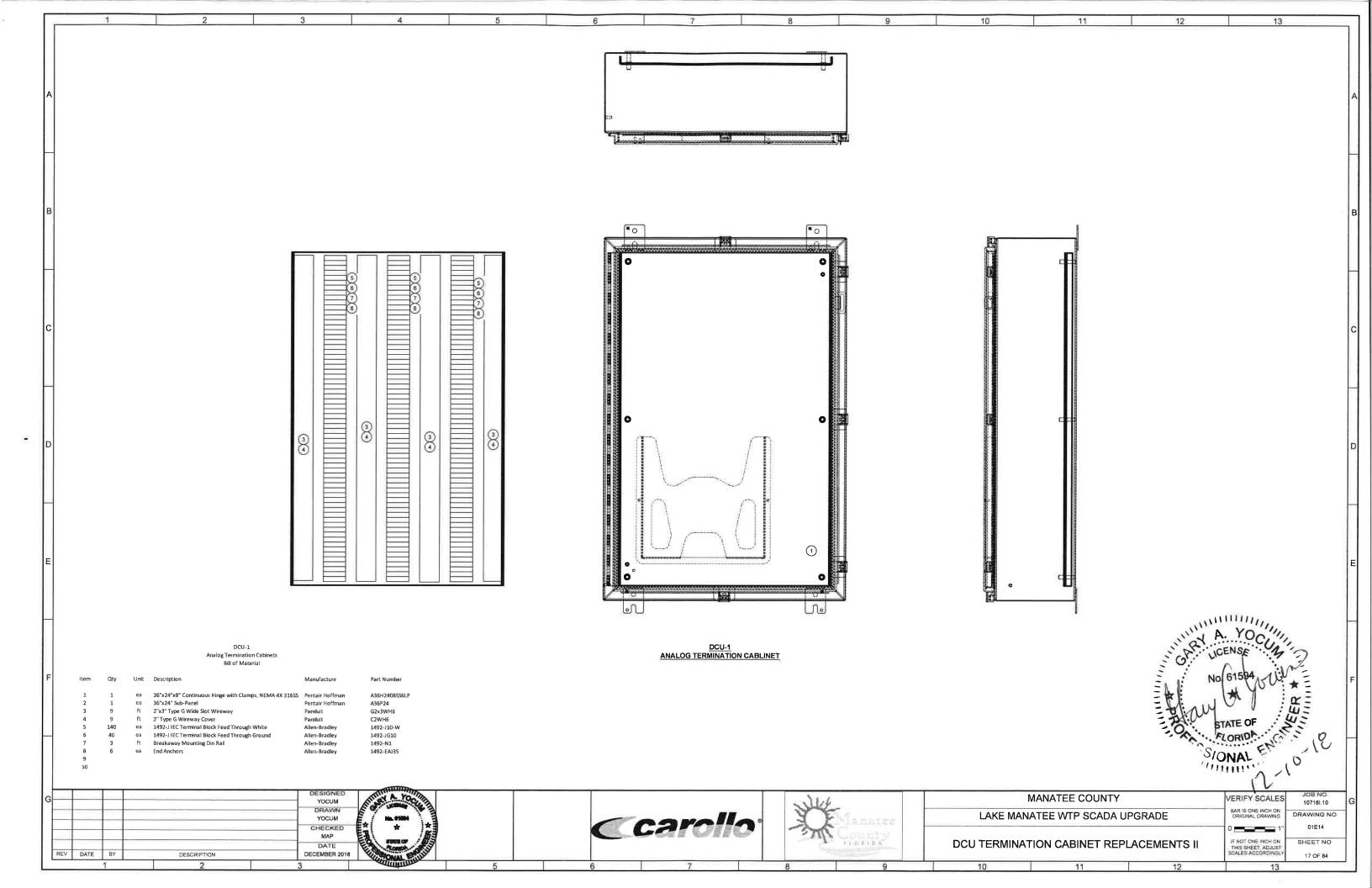
2. NEW TERMINATE CABINETS SHALL BE NEMA-4X 316SS.

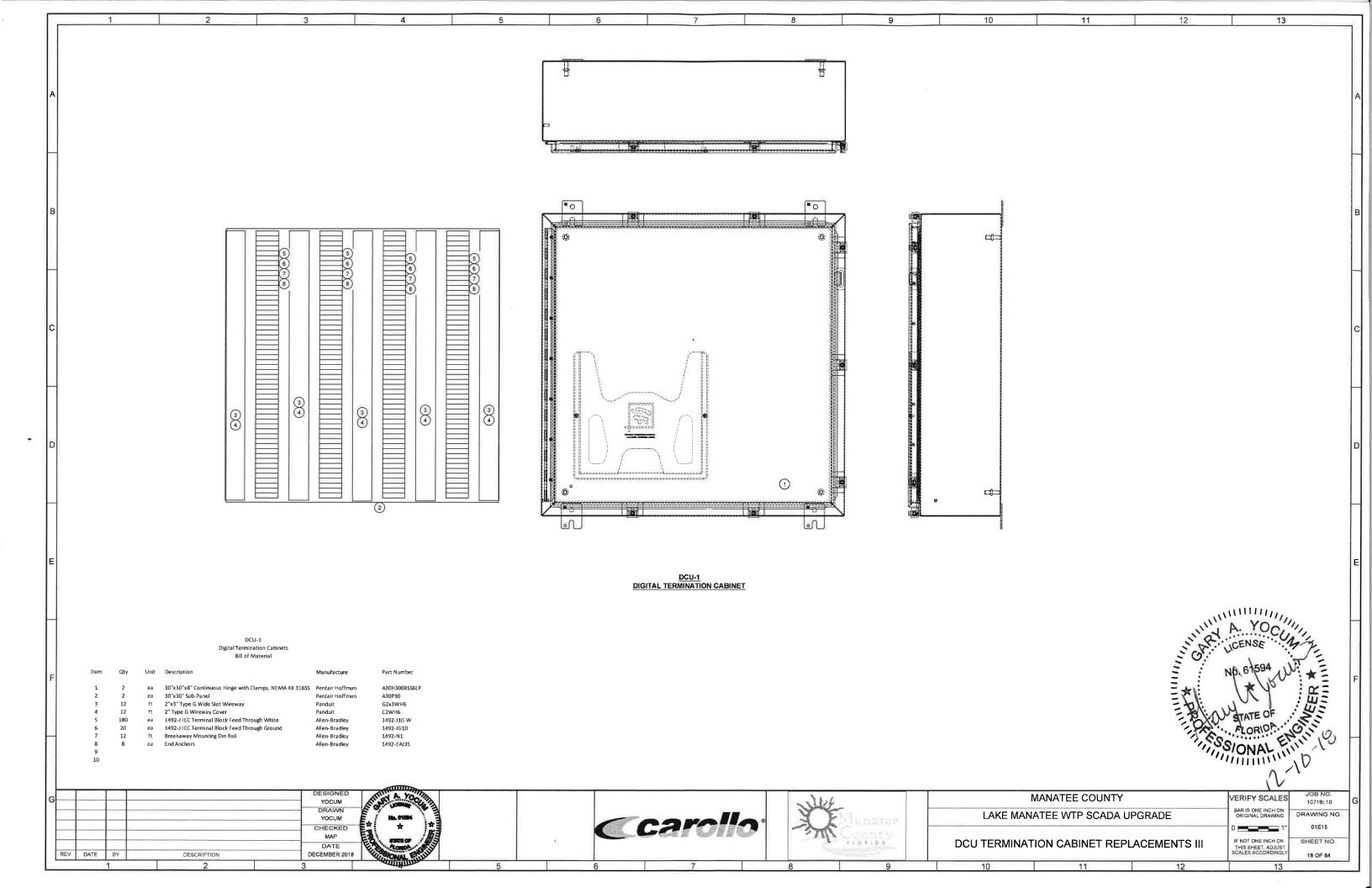
3. SEE DRAWING 01E13 FOR ADDITIONAL DETAILS ON THESE TERMINATION CABINETS

4. SEE DRAWING 01E02 FOR APPROXIMATE LOCATION OF DCU-3 FLORIDA CHANGE MANATEE COUNTY VERIFY SCALES YOCUM DRAWN LAKE MANATEE WTP SCADA UPGRADE YOCUM CHECKED FLDIIDA DCU TERMINATION CABINET REPLACEMENT MAP IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY DATE DCU-3 FILTER A/B CHEMICALS DATE DESCRIPTION DECEMBER 2018









APPROXIMATE LOCATION OF NEW WORKSTATION NETWORK EXISTING FIBER OPTIC NETWORK SWITCH IS SITTING ON DESK BEHIND PHONE. EXISTING FIBER OPTIC CABLE IS ON WALL BEHIND THIS BOOKSHELF AND IS HANGING IN AIR FROM THE END OF THE CABLE TO THE NETWORK CONVERTER ON THE DESK. EXISTING FIBER OPTIC NETWORK SWITCH LOCATED ON DESK BEHIND PHONE EXISTING WORKSTATION UPS TO BE REUSED WITH NEW WORKSTATION INSTALLATION.

EXISTING WORKSTATION UPS TO BE REUSED WITH NEW WORKSTATION INSTALLATION

EXISTING FIBER OPTIC CABLE BEHIND BOOKSHELF HANGING IN FREE AIR TO FIBER OPTIC NETWORK

LIBRARY AREA OVERVIEW

YOCUM DRAWN

YOCUM CHECKED MAP

WORKSTATION #1 - LIBRARY AREA

GENERAL NOTES:

1. REMOVE EXISTING NETWORK SWITCH.

2. PROVIDE AND INSTALL WORKSTATION NETWORK INTERFACE PANEL ON WALL.

3. PROVIDE CONDUIT AND WIRE AS REQUIRED FROM NEARBY 120VAC PDP TO THE WORKSTATION NETWORK INTERFACE PANEL.

4. PROVIDE CONDUIT TO PROTECT EXISTING FIBER OPTIC CABLE FROM ABOVE DROP CEILING TO WORKSTATION NETWORK INTERFACE PANEL.

5. REROUTE EXISTING FIBER OPTIC CABLE TO WORKSTATION INTERFACE PANEL.

6. SEE DRAWING 02009 FOR ADDITIONAL DETAILS ON THE WORKSTATION INTERFACE PANEL.



LAKE MANATEE WTP SCADA UPGRADE **WORKSTATION 1 (LIBRARY AREA)** NETWORK INTERFACE PANELS

MANATEE COUNTY

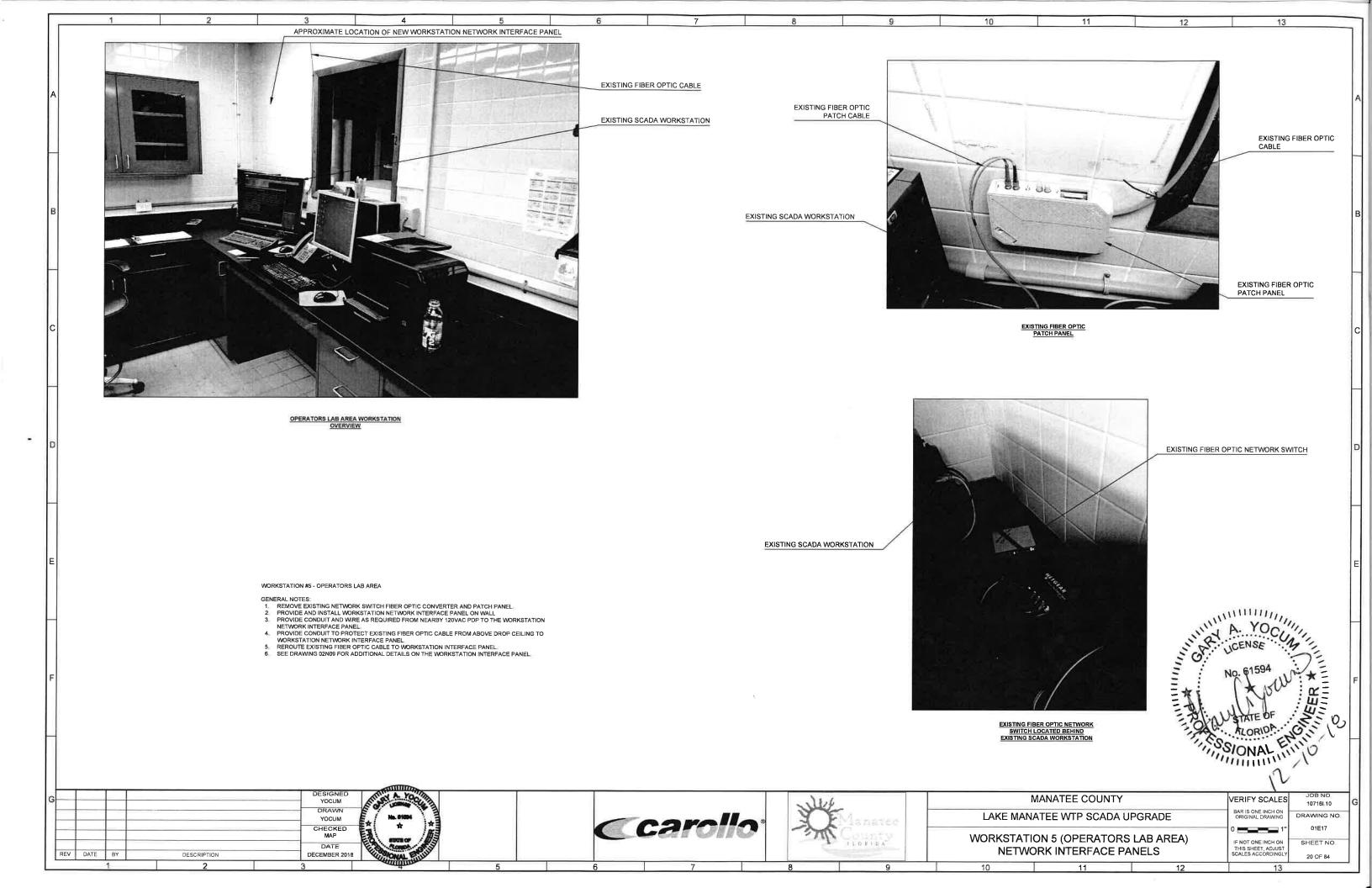
DRAWING NO. IF NOT ONE INCH ON THIS SHEET, ADJUST

VERIFY SCALES

SHEET NO 19 OF 84

JOB NO. 10716I.10

DATE DATE DECEMBER 2018



EXISTING SCADA SYSTEM FIBER OPTIC EXISTING SCADA WORKSTATION

EXISTING SCADA NETWORK EQUIPMENT

INSTRUMENTATION SHOP OVERVIEW

1" CONDUIT AND ETHERNET CABLE BETWEEN INSTRUMENTATION SHOP AND MAINTENANCE MANAGERS

WORKSTATION #4 - INSTRUMENTATION SHOP AREA

GENERAL NOTES:

REMOVE EXISTING NETWORK SWITCH FIBER OPTIC CONVERTER AND PATCH PANEL.

PROVIDE AND INSTALL WORKSTATION NETWORK INTERFACE PANEL ON WALL (COORDINATE WITH COUNTY STAFF FOR LOCATION)
PROVIDE CONDUIT AND WIRE AS REQUIRED FROM NEARBY 120 VAC PDP TO THE WORKSTATION NETWORK INTERFACE PANEL.

PROVIDE CONDUIT TO PROTECT EXISTING FIBER OPTIC CABLE FROM ABOVE DROP CEILING TO WORKSTATION NETWORK INTERFACE PANEL.

REROUTE EXISTING FIBER OPTIC CABLE TO WORKSTATION INTERFACE PANEL.

SEE DRAWING 0210 FOR A DOTITIONAL DETAILS ON THE WORKSTATION INTERFACE PANEL.

PROVIDE 1" CONDUIT AND ETHERNET CABLE FROM WORKSTATION INTERFACE PANEL TO MAINTENANCE MANGERS OFFICE.

INSTRUMENTALTON SHOP

MAINTENANCE MANAGER OFFICE

MAINTENANCE BUILDING

DRAWN YOCUM CHECKED MAP DATE DATE DESCRIPTION DECEMBER 2018







WATER TOWER

LAKE MANATEE WTP SCADA UPGRADE	
ORKSTATION 4 (INSTRUMENTATION SHOP AREA)	
NETALODIC INTEDEACE DANIELO	

WO NETWORK INTERFACE PANELS

MANATEE COUNTY

VERIFY SCALES 107161.10 DRAWING NO. 01E1B IF NOT ONE INCH ON SHEET NO. THIS SHEET, ADJUST SCALES ACCORDINGLY 21 OF 84

