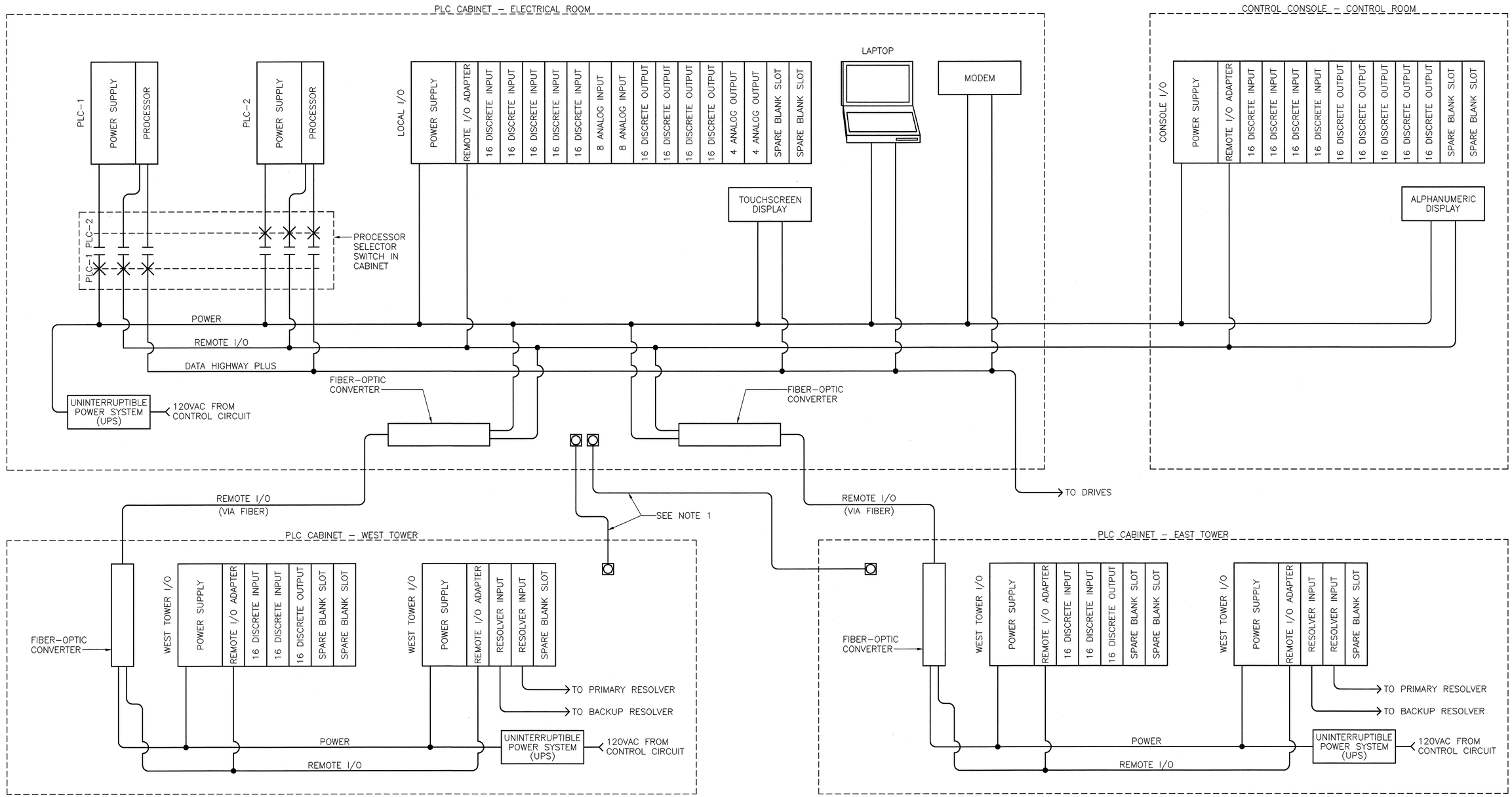

PLC LAYOUT

NOTES:

1. PROVIDE BACK–UP TWINAXIAL CABLE BETWEEN THE THE ELECTRICAL ROOM AND TOWER PLC CABINETS. TERMINATE CABLE ON TERMINAL BLOCKS IN CABINETS SUCH THAT CABLE CAN BE SWITCHED INTO SERVICE IF NEEDED.
2. TERMINATE ALL CONDUCTORS ENTERING AND LEAVING ALL PLC CABINETS ON SURGE–SUPPRESSION TERMINAL BLOCKS. COORDINATE SUPPRESSOR TYPE AND VOLTAGE RATING WITH CIRCUITS SERVED.
3. ALL DISCRETE OUTPUT MODULES SHALL BE AC/DC RELAY TYPE.
4. ALL ANALOG INPUT MODULES SHALL BE SELECTABLE (±10V OR ±20MA) TYPE.
5. RESOLVER INPUT MODULES SHALL PROVIDE 18 BIT RESOLUTION WITH A 64:1 MULTI–TURN DUAL RESOLVER. MODULES SHALL BE GEMCO 1746R–2, OR APPROVED EQUAL.
6. FIBER–OPTIC CONVERTERS SHALL PROVIDE REMOTE I/O COMMUNICATION VIA A FIBER OPTIC CONNECTION. MODULES SHALL BE ALLEN–BRADLEY 1771–AF1, OR APPROVED EQUAL.
7. TOUCHSCREEN SHALL BE 15 INCH FULL COLOR TYPE, INSTALLED IN THE ELECTRICAL ROOM PLC CABINET DOOR. TOUCHSCREEN SHALL BE ALLEN–BRADLEY PANELVIEW PLUS 1500 COLOR, OR APPROVED EQUAL.

LANCE V. BORDEN
NORTH CAROLINA PROFESSIONAL SEAL 025801 ENGINEER
2005

MODJESKI and MASTERS
INCORPORATED
4909 LOUISE DRIVE
MECHANICSBURG, PA 17055

CENTURY SOUTHERN, INC.
2811 REIDVILLE ROAD, STE 2
SPARTANBURG, SC 29301

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

CAPE FEAR RIVER CROSSING
WILMINGTON, NORTH CAROLINA

PLC CONTROL SYSTEM LAYOUT

		DRAWN BY	R.L. REED
		SCALE	NONE
DESIGNED G.L. FASICK	DETAILED R.L. REED	DATE	APRIL, 2005
CHECKED N.E. ALGER	CHECKED G.L. FASICK	DRAWING NO.	12 OF 53

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