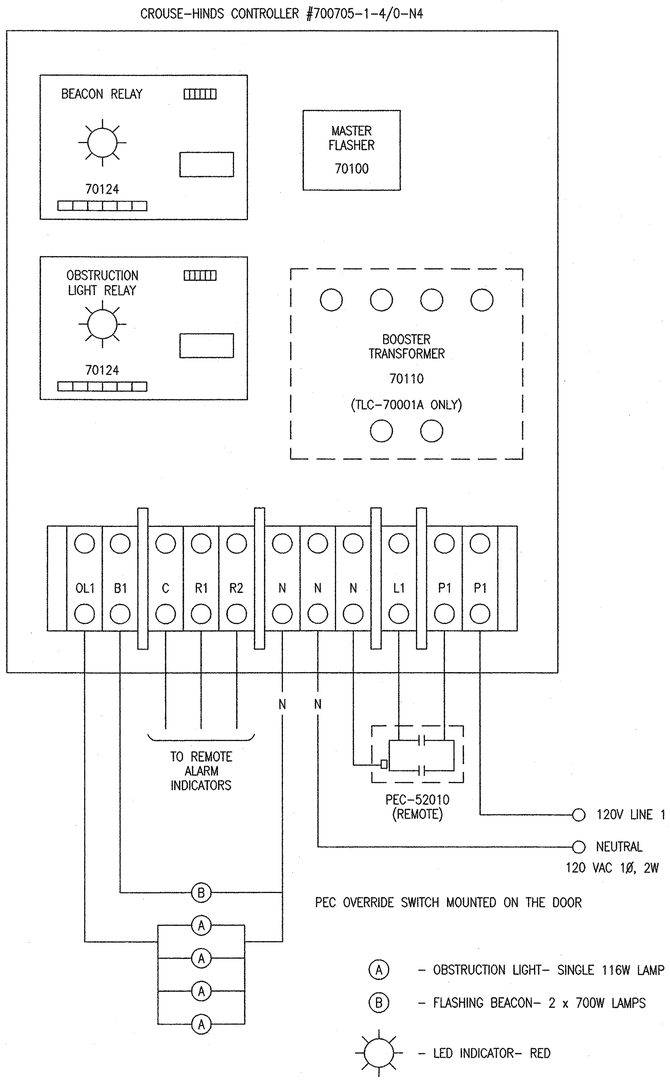
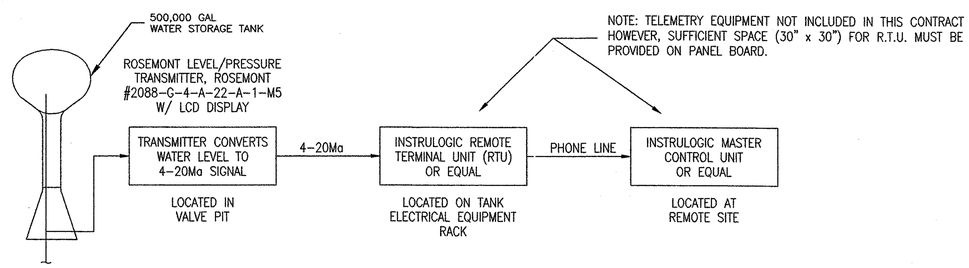


OBSTRUCTION LIGHTING SCHEMATIC

NOT TO SCALE

QTY	DESCRIPTION	MANUFACTURER	CATALOG NO.	COMMENTS
1 EA.	OBSTRUCTION LIGHTING CONTROLLER	CROUSE-HINDS	70070J-1-4/0-N4 OR EQUAL	
1 EA.	PHOTOELECTRIC CONTROLLER	CROUSE-HINDS	52010-120 VOLTS OR EQUAL	
1 EA.	FLASHING BEACON	CROUSE-HINDS	41257G OR EQUAL	FLASHING LAMP FIXTURE FOR TOP OF TANK
2 EA.	LAMPS FOR ABOVE- 700 WATT, 120 VOLTS, 6000 HOUR LIFE	CROUSE-HINDS	10047-2543 OE EQUAL	
4 EA.	STEADY BEACON	CROUSE-HINDS	40940-116 OR EQUAL	NON FLASHING SINGLE BEACON LOCATED HALF WAY UP THE TANK- LAMPS ARE INCLUDED.
1 EA.	PHOTOCELL	CROUSE-HINDS	52010	LOCATE ON OUTSIDE OF TANK

OBSTRUCTION LIGHTING SCHEDULE



INSTRUMENT DIAGRAM

NOT TO SCALE

PANEL No.....LA

VOLTAGE.....120/208V 3 PHASE/4 WIRE
PANEL TYPE.....LOW VOLTAGE WATER STORAGE TANK POWER DISTRIBUTION
No. OF CIRCUITS.....42
BUS RATING.....100A

LOCATION.....ELECTRICAL EQUIPMENT MOUNTING RACK
MAIN BREAKER.....100 AMPS
PANEL MOUNTING.....SURFACE
FEED (TOP OR BOTTOM).....TOP

WIRING GROUND	WIRING CONDUCTOR SIZE	CONDUIT	DESCRIPTION	CONNECTED LOAD (KVA) A	B	C	CIRCUIT BREAKER FRAME	TRIP	AIC	CKT. No.	CKT. No.	CIRCUIT BREAKER FRAME	TRIP	AIC	CONNECTED LOAD (KVA) A	B	C	DESCRIPTION	CONDUIT	WIRING GROUND	WIRING CONDUCTOR SIZE
No. 12	No. 12	3/4"	TELEMETERING SYSTEM	*	*	*	100A	20A	*	1	2	100A	20A	*	*	*	*	WATER TANK LIGHTING	3/4"	No. 12	No. 12
No. 12	No. 12	3/4"	WATER TANK RECEPTACLES				100A	20A	*	3	4	100A	20A	*				WATER TANK RECEPTACLES	3/4"	No. 12	No. 12
No. 12	No. 12	3/4"	CATHODIC PROTECTION				100A	20A	*	5	6	100A	20A	*				LEVEL TRANSMITTER	3/4"	No. 12	No. 12
No. 12	No. 12	3/4"	RTU FOR TELEMETRY				100A	20A	*	7	8	100A	30A	*				OBSTRUCTION LIGHTING CONTROLLER	3/4"	No. 10	No. 10
No. 12	No. 12	3/4"	LOGO LIGHTING VIA TIME SWITCH				100A	20A	*	9	10	100A	20A	*				LOGO LIGHTING VIA TIME SWITCH	3/4"	No. 12	No. 12
										11	12										
										13	14										
										15	16										
										17	18										
										19	20										
										21	22										
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										25	26										
										27	28										
										29	30										
										29	30										
										31	32										
										33	34										
										35	36										
										37	38										
										39	40										
										41	42										
			SUB-TOTAL	*	*	*									*	*	*	SUB-TOTAL			

A B C

NEU. GND

TOTAL CONNECTED LOAD: KVA
* = * AMP PHASE 1
* = * AMP PHASE 2
* = * AMP PHASE 3
*

*NOTE: COORDINATE AIC RATINGS WITH UTILITIES

PANEL SCHEDULE

R99125-05ELEC.DWG

Draper Aden Associates
Blacksburg • Richmond, Virginia
Engineering • Surveying • Environmental Services

DESIGNED: SCC/JPK
CADD-TECH: STAFF
CHECKED: SCC
DATE: 11/05/99

WATER STORAGE TANK ELECTRICAL DETAILS
SOUTHPOINT BUSINESS PARK WATER STORAGE TANK
PRINCE GEORGE COUNTY, VIRGINIA

REVISIONS:

SCALE: NOT TO SCALE

PROJECT No. R99125-05F

SHEET 7 OF 7