



- NOTES:**
- REFER TO DRAWING 121054 (3 SHEETS) FOR THE 9X35 LR BUOY PHYSICAL ARRANGEMENTS.
 - IN THE RACON POWER AND DATA CABLE, THE RED CONDUCTOR IS BATTERY POSITIVE, BLACK IS BATTERY NEGATIVE AND GREEN IS CHASSIS GROUND. THE CHASSIS GROUND IS NOT THE SAME AS THE BATTERY NEGATIVE. CONNECTION OF THE BATTERY NEGATIVE LEAD TO THE CHASSIS GROUND OR JUMPING THE BLACK AND GREEN TERMINALS WILL DESTROY THE RACON INTERNAL PROCESSOR, AND INCREASE THE LOAD ON THE BATTERY. IF THE PIGTAIL FEEDER PROVIDED WITH RACON IS TOO SHORT TO REACH LOAD OUTPUT TERMINALS ON THE BATTERY, SPLICE TO ATON 2/C #12 AWG TYPE SO CABLE AS SHOWN, WITH RACON RED TO ATON BLACK & RACON BLACK TO ATON WHITE, RACON GREEN TO BUOY HULL OR NOT CONNECTED.
 - THE WTG CONTROLLER RECTIFIES THE WAVE TURBINE AC POWER OUTPUT AND CONNECTS THE DUMMY LOAD TO THE 12VDC SYSTEM WHEN THE BATTERY VOLTAGE EXCEEDS A PRESET LIMIT. SEE EXPOSED LOCATION BUOY POWER SYSTEM USERS GUIDE FOR COMPLETE CHECKOUT AND OVERHAUL GUIDANCE. CONFIRM FC #1 IS INSTALLED BEFORE DEPLOYING BUOY.

REV.	DATE	APPR.	DESCRIPTION	BY
A	6/95	HRC	REVISE CHARGING CKT, UPDATE WTG CONTROLLER, ADD RACON NOTE.	STN
DESIGNED: RG/STN			U.S. COAST GUARD HEADQUARTERS	
DRAWN: STN			CIVIL ENGINEERING	
TRACED:			STANDARD AID TO NAVIGATION	
CHECKED: JG			9x35 LR BUOY WIRING	
REVIEWED BY: H.R. CLEVELAND			ELECTRICAL SCHEMATIC DIAGRAM	
REVIEWED BY: R.J. WELLS			(EXPOSED LOCATION BUOY)	
REVIEWED BY:			APPROVED: CAPT DRESCH	DATE: 11-16-89
UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES. TOLERANCES: DIM. ANG.			DRAWING NUMBER: 140454	
SCALE: NONE			SHEET 1 OF 1	

PLOTTING SCALE: