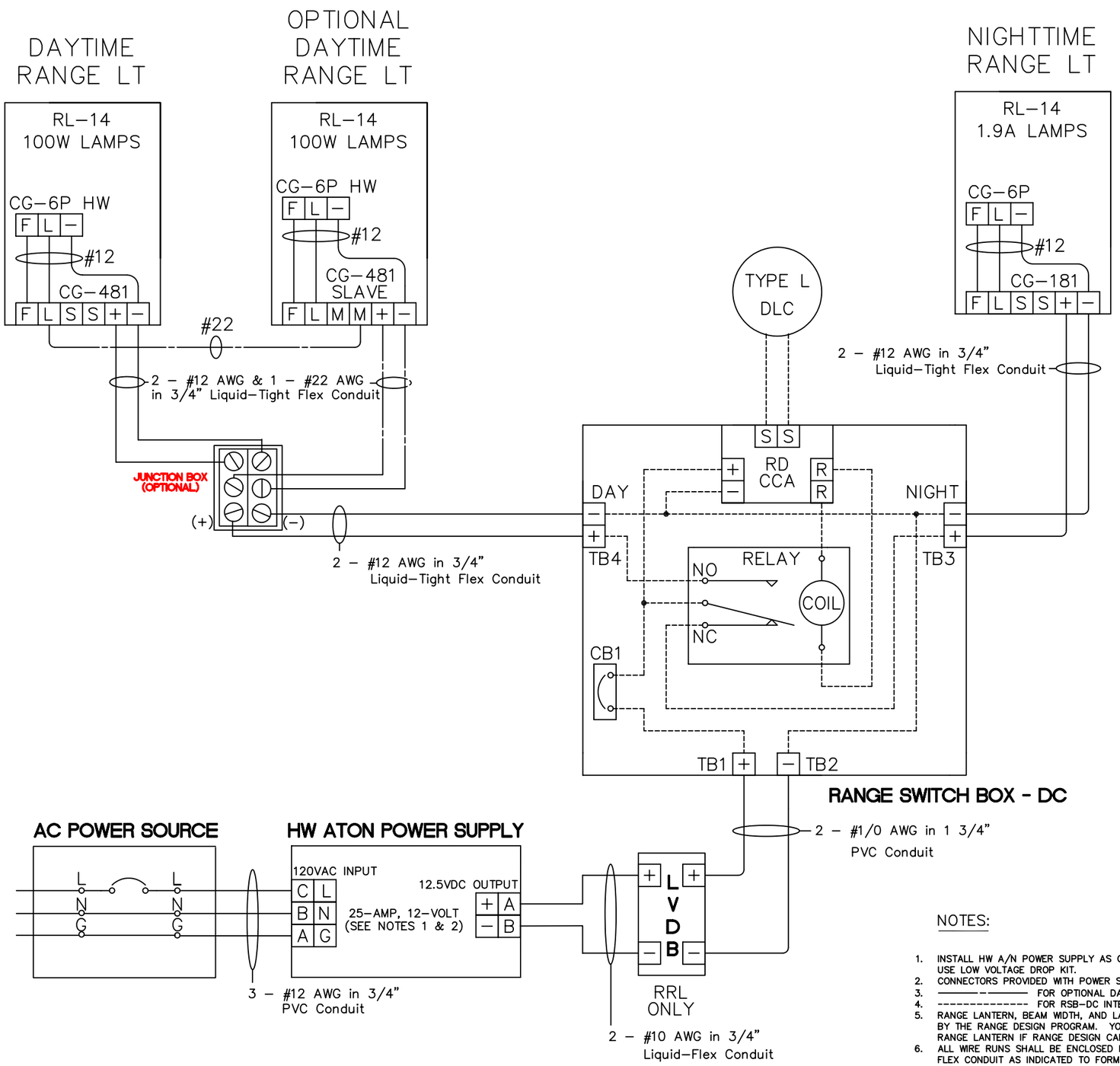

POINT TO POINT WIRE RUNNING LIST

FROM	WIRE SIZE (AWG)	MAX DISTANCE (FT)	TO
120VAC BREAKER, LINE	12		HW ATON PWR SPLY, PIN C
120VAC, NEUTRAL BUS	12		HW ATON PWR SPLY, PIN B
120VAC, GROUND BUS	12		HW ATON PWR SPLY, PIN A
HW ATON PWR SPLY, PIN A	10	10	LOW VOLTAGE DROP BOX (+)
HW ATON PWR SPLY, PIN B	10	10	LOW VOLTAGE DROP BOX (–)
LOW VOLTAGE DROP BOX (+)	1/0*	75	RANGE SWITCH BOX–DC, TB1
LOW VOLTAGE DROP BOX (–)	1/0*	75	RANGE SWITCH BOX–DC, TB2
RANGE SWITCH BOX–DC, TB4(+)	12	5	DAYTIME RANGE LT, CG–481 (+)
RANGE SWITCH BOX–DC, TB4(–)	12	5	DAYTIME RANGE LT, CG–481 (–)
RANGE SWITCH BOX–DC, TB4(+)	12	5	OP DAYTIME RANGE LT, CG–481 (+)
RANGE SWITCH BOX–DC, TB4(–)	12	5	OP DAYTIME RANGE LT, CG–481 (–)
RANGE SWITCH BOX–DC, TB3(+)	12	5	NIGHTTIME RANGE LT, CG–181 (+)
RANGE SWITCH BOX–DC, TB3(–)	12	5	NIGHTTIME RANGE LT, CG–181 (–)
DAYTIME RANGE LT, CG–481 (F)	12		DAYTIME RANGE LT, CG–6P HW (F)
DAYTIME RANGE LT, CG–481 (L)	12		DAYTIME RANGE LT, CG–6P HW (L)
DAYTIME RANGE LT, CG–481 (–)	12		DAYTIME RANGE LT, CG–6P HW (–)
OP DAYTIME RANGE LT, CG–481 (F)	12		OP DAYTIME RANGE LT, CG–6P HW (F)
OP DAYTIME RANGE LT, CG–481 (L)	12		OP DAYTIME RANGE LT, CG–6P HW (L)
OP DAYTIME RANGE LT, CG–481 (–)	12		OP DAYTIME RANGE LT, CG–6P HW (–)
NIGHTTIME RANGE LT, CG–181 (F)	12		NIGHTTIME RANGE LT, CG–6P (F)
NIGHTTIME RANGE LT, CG–181 (L)	12		NIGHTTIME RANGE LT, CG–6P (L)
NIGHTTIME RANGE LT, CG–181 (–)	12		NIGHTTIME RANGE LT, CG–6P (–)

* THE MAX DISTANCE IS 47FT IF #2 VICE #1/0 USED.

BILL OF MATERIALS

ITEM	TYPE	SOURCE OF SUPPLY	QUANTITY
HW ATON POWER SUPPLY	12VDC, 25–AMP	G–SEC	1
LOW VOLTAGE DROP KIT	LVDK	G–SEC	1(IF REQUIRED)
RANGE SWITCH BOX–DC	RSB–DC	G–SEC	1
DAYTIME RANGE LT, RL–14	CARLISLE & FINCH	ELC	SEE NOTE 5
HW FLASHER	CG–481	G–SEC	1
HW SLAVE FLASHER	CG–481 SLAVE	ACSI	1(IF REQUIRED)
HW LAMP CHANGER	CG–6P HW	C–R CONTROL SYSTEMS, INC.	1(2 IF REQUIRED)
LAMPS	12VDC, 110W	ELC	6(12 IF REQUIRED)
NIGHTTIME RANGE LT, RL–14	CARLISLE & FINCH	ELC	1
12VDC FLASHER	CG–181	ELC	1
12VDC LAMPCHANGER	CG–6P	ELC	1
LAMPS	12VDC, 1.9A	ELC	6

NOTES:

1. INSTALL HW A/N POWER SUPPLY AS CLOSE TO RANGE LIGHTS AS POSSILE OR USE LOW VOLTAGE DROP KIT.
2. CONNECTORS PROVIDED WITH POWER SUPPLY ARE MADE UP WITH 10' PIGTAILS.
3. ———————— FOR OPTIONAL DAYTIME RANGE LT CONNECTIONS.
4. ---------- FOR RSB–DC INTERNAL WIRING CONNECTIONS.
5. RANGE LANTERN, BEAM WIDTH, AND LAMPS DETERMINED BY INTENSITIES RECOMMENDED BY THE RANGE DESIGN PROGRAM. YOU MAY NEED OPTIONAL SECOND DAYTIME RANGE LANTERN IF RANGE DESIGN CALLS FOR HIGH INTENSITY DATIME SIGNAL.
6. ALL WIRE RUNS SHALL BE ENCLOSED IN APPROPRIATELY SIZED RIGID OR LIQUID–TIGHT FLEX CONDUIT AS INDICATED TO FORM A WEATHERTIGHT SYSTEM AND PROTECT ELECTRICAL COMPONENTS FROM THE ELEMENTS.

REV.	DATE	APPR.	DESCRIPTION	BY
A	12/03	JTG	ADDED CONDUIT, JUNCTION BOX AND NOTE 6.	KMD

DESIGNED: KMD
DRAWN: KMD
TRACED:
CHECKED: KA/JTG
REVIEWED BY: H.R. CLEVELAND G–SEC–2A
REVIEWED BY: R. J. LEGIER G–SEC–2
REVIEWED BY:

U.S. COAST GUARD — HEADQUARTERS
CIVIL ENGINEERING

STANDARD AID TO NAVIGATION

COMMERCIAL DAY/NIGHT RANGE (RANGE CATEGORY C – D/N) 12VDC SIGNALS

APPROVED: CAPT J.A. RAUCH, CHIEF, OFFICE OF CIVIL ENGINEERING
DATE

UNLESS OTHERWISE SPECIFIED:
ALL DIMENSIONS ARE IN INCHES.
TOLERANCES: DIM.
ANG.

DRAWING NUMBER 130506 REV. A
SCALE: NONE
SHEET 1 OF 1

PLOTTING SCALE: