

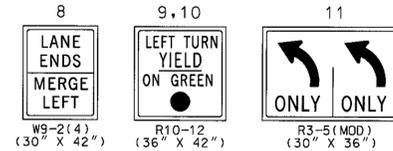
EQUIPMENT LIST

ITEM	DESCRIPTION	UNITS	QUANTITY
8002	FURNISH AND INSTALL CONCRETE FOR LIGHTING FOUNDATION	EA	2.1
8005	FURNISH AND INSTALL NO. 6 A.W.G. STRANDED BARE COPPER GROUND WIRE	LF	120
8006	FURNISH AND INSTALL 3" SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED	LF	5.2
8012	FURNISH AND INSTALL BREAKAWAY BASE FOR LIGHT STRUCTURE	EA	1
8014	FURNISH AND INSTALL 40 FT. LIGHT STRUCTURE-15 FT. BRACKET ARM	EA	1
8015	FURNISH AND INSTALL 2" SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED	LF	20
8016	FURNISH AND INSTALL 250 WATT HIGH PRESSURE SODIUM LAMP AND LUMINAIRE, (SEMI-CUT OFF) WITH PHOTOCCELL	EA	2
8019	FURNISH AND INSTALL ELECTRICAL CABLE- 2 CONDUCTOR (NO. 12 A.W.G.)	LF	260
8024	FURNISH AND INSTALL GROUND ROD-3/4 INCH DIAMETER X 10 FT LENGHT	EA	1
8027	FURNISH AND INSTALL POLE EXTENSION	EA	1
8029	FURNISH AND INSTALL 15 FT. LIGHTING ARM ON SIGNAL STRUCTURE	EA	1

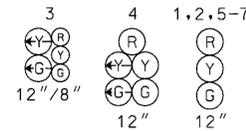
GENERAL NOTES

- ALL ELECTRICAL CABLE FOR LUMINAIRE SHALL BE 2-CONDUCTOR NO.: 12 A.W.G.

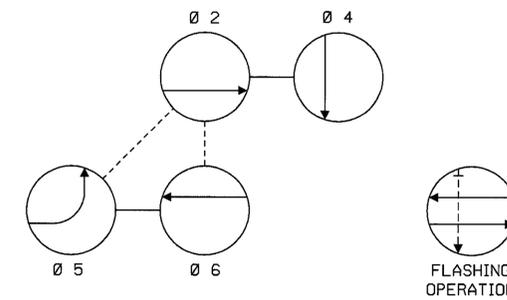
EXISTING SIGNS



EXISTING SIGNALS



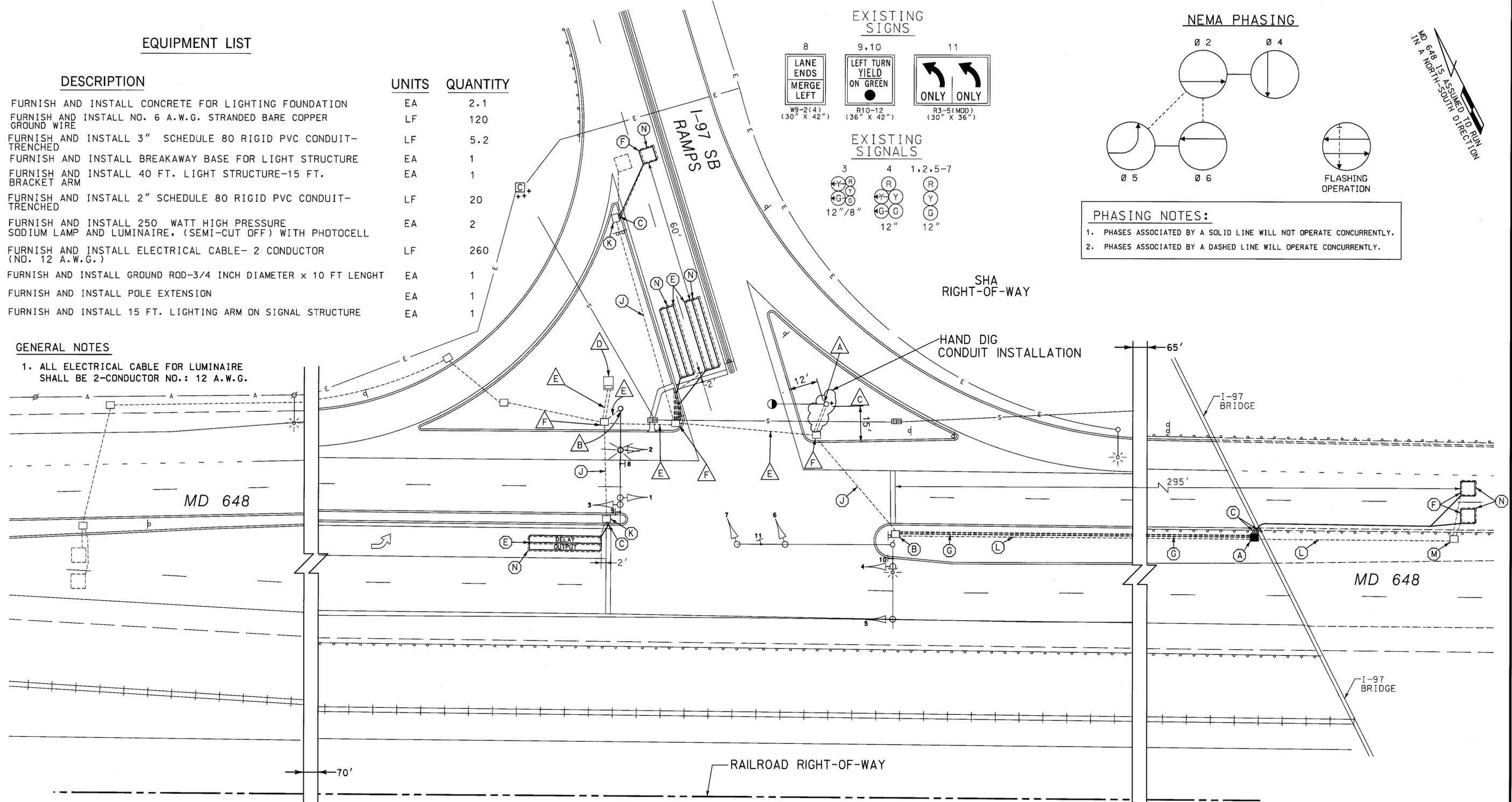
NEMA PHASING



PHASING NOTES:

- PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
- PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.

MD 648 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION



CONSTRUCTION DETAILS

- A. FURNISH AND INSTALL CONCRETE FOUNDATION 40' LIGHTING STRUCTURE WITH BREAKAWAY BASE 250 W HPS. SEMI-CUT OFF, LAMP AND LUMINAIRE W/ PHOTOCCELL, GROUND ROD, AND 15' LIGHTING ARM.
- B. FURNISH AND INSTALL POLE TOP EXTENSION TO EXISTING 21' MAST ARM POLE, WITH 15' LIGHTING ARM, 250 W HPS SEMI CUT-OFF LAMP AND LUMINAIRE W/ PHOTOCCELL.
- C. FURNISH AND INSTALL 2 IN. SCHEDULE 80, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (HAND TRENCHED).
- D. USE EXISTING CABINET AND CONTROLLER AND INSTALL LIGHTING TRAY CABLE TO 30 AMP DISCONNECT SWITCH.
- E. USE EXISTING CONDUIT.
- F. USE EXISTING HANDHOLE.

SABRA, WANG & ASSOCIATES, INC.
 1506 JOH AVENUE
 SUITE 180
 BALTIMORE, MD 21227
 (410) 737-6584

PROJECT APPROVALS	
APPROVALS ARE FOR SIGNING	
SHEETS: SN- THRU SN- A TOTAL OF SHEETS	
APPROVALS	REVISIONS
ASST. TRAFFIC ENGINEERING DESIGN DIVISION	RTS 10/25/99
ASST. DISTRICT ENGINEER, TRAFFIC	
CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION	
DIRECTOR, OFFICE OF TRAFFIC & SAFETY	

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
 Office of Traffic & Safety
 TRAFFIC ENGINEERING DESIGN DIVISION
 ROADWAY LIGHTING PROJECT
MD 648 AT I-97 ON RAMP

DRAWN BY: M. MEARS	F.A.P. NO. AAG88A51/B51	LIGHTING NO. TS-3028C	SHEET NO. 1 OF 1
CHK. BY: S. RENZI	S.H.A. NO. ANNE ARUNDEL	T.I.M.S. NO. D-414	
SCALE: 1"=20'	COUNTY: ANNE ARUNDEL		

02064804.37

CADD:\9611\TASK 48\CB92\F02.DGN