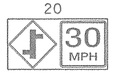
EXISTING SIGN
TO BE REMOVED

20



PROPOSED SIGNS
SEE SHEET SN-3 FOR DETAILS

14A,16A

BACK TO BACK
84"X32"

14B,16B

BACK TO BACK
84"X32"

13,15

R10-12
30"X36"

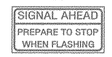
17A,17B,19A,19B

BACK TO BACK
72"X16"

18

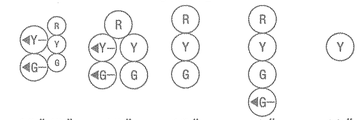
R10-11B
24"X24"

20

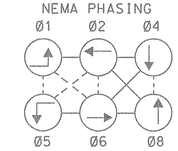


W3-3(2)
120"X60"

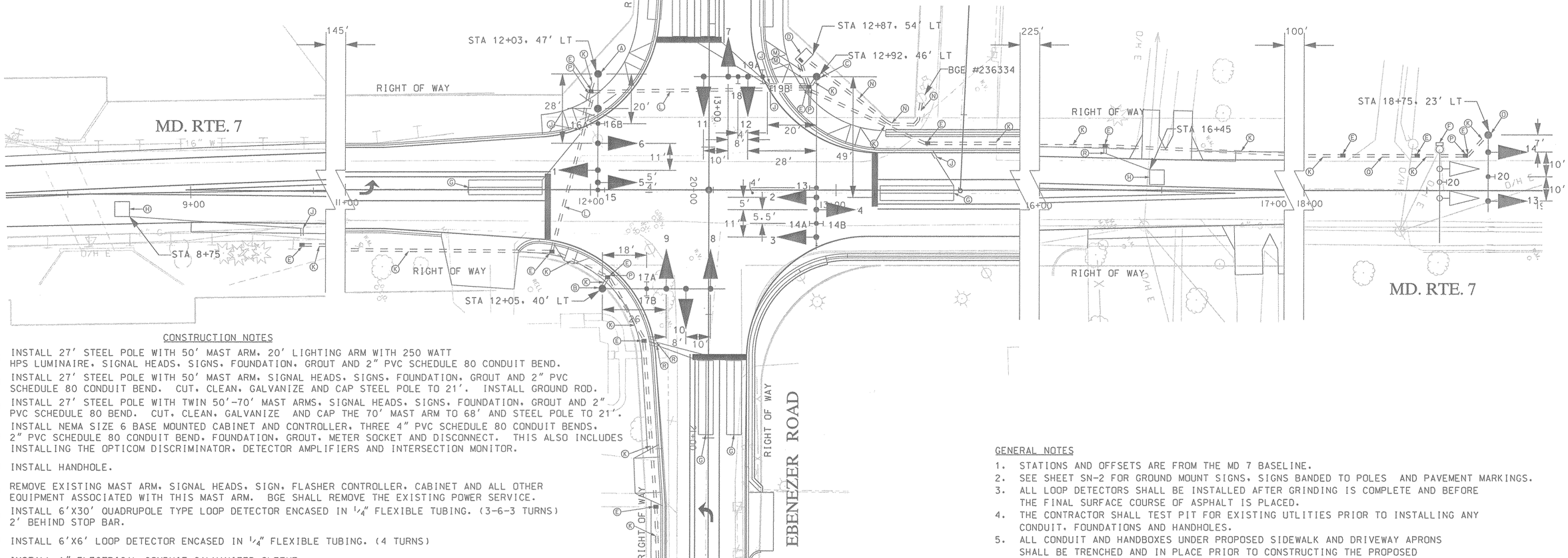
PROPOSED SIGNALS



NEMA PHASING



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



CONSTRUCTION NOTES

(A) INSTALL 27' STEEL POLE WITH 50' MAST ARM, 20' LIGHTING ARM WITH 250 WATT HPS LUMINAIRE, SIGNAL HEADS, SIGNS, FOUNDATION, GROUT AND 2" PVC SCHEDULE 80 CONDUIT BEND.

(B) INSTALL 27' STEEL POLE WITH 50' MAST ARM, SIGNAL HEADS, SIGNS, FOUNDATION, GROUT AND 2" PVC SCHEDULE 80 CONDUIT BEND. CUT, CLEAN, GALVANIZE AND CAP STEEL POLE TO 21'. INSTALL GROUND ROD.

(C) INSTALL 27' STEEL POLE WITH TWIN 50'-70' MAST ARMS, SIGNAL HEADS, SIGNS, FOUNDATION, GROUT AND 2" PVC SCHEDULE 80 BEND. CUT, CLEAN, GALVANIZE AND CAP THE 70' MAST ARM TO 68' AND STEEL POLE TO 21'.

(D) INSTALL NEMA SIZE 6 BASE MOUNTED CABINET AND CONTROLLER, THREE 4" PVC SCHEDULE 80 CONDUIT BENDS, 2" PVC SCHEDULE 80 CONDUIT BEND, FOUNDATION, GROUT, METER SOCKET AND DISCONNECT. THIS ALSO INCLUDES INSTALLING THE OPTICOM DISCRIMINATOR, DETECTOR AMPLIFIERS AND INTERSECTION MONITOR.

(E) INSTALL HANDHOLE.

(F) REMOVE EXISTING MAST ARM, SIGNAL HEADS, SIGN, FLASHER CONTROLLER, CABINET AND ALL OTHER EQUIPMENT ASSOCIATED WITH THIS MAST ARM. BGE SHALL REMOVE THE EXISTING POWER SERVICE.

(G) INSTALL 6'X30' QUADRUPOLE TYPE LOOP DETECTOR ENCASED IN 1/4" FLEXIBLE TUBING. (3-6-3 TURNS) 2' BEHIND STOP BAR.

(H) INSTALL 6'X6' LOOP DETECTOR ENCASED IN 1/4" FLEXIBLE TUBING. (4 TURNS)

(J) INSTALL 1" ELECTRICAL CONDUIT GALVANIZED SLEEVE.

(K) INSTALL 2" SCHEDULE 80, RIGID PVC ELECTRICAL CONDUIT, TRENCHED.

(L) INSTALL 3" SCHEDULE 80, RIGID PVC ELECTRICAL CONDUIT, SLOTTED.

(M) INSTALL 4" SCHEDULE 80, RIGID PVC ELECTRICAL CONDUIT, TRENCHED.

(N) INSTALL 4" PVC SCHEDULE 80 CONDUIT WITH PULL STRING AND BEND AT BGE POLE, TRENCHED, FOR POWER SERVICE. INSTALL 2" PVC SCHEDULE 80 CONDUIT WITH PULL STRING AND BEND AT BGE POLE, TRENCHED, FOR PHONE LINE. THESE WILL RUN TO BGE POLE #236334.

(O) INSTALL 27' STEEL POLE WITH 50' MAST ARM, SIGNAL HEADS, SIGN, FOUNDATION, GROUT AND 2" PVC SCHEDULE 80 CONDUIT BEND. CUT, CLEAN, GALVANIZE AND CAP THE MAST ARM TO 30' AND THE STEEL POLE TO 21'.

(P) INSTALL GROUND ROD. TWO GROUND RODS SHALL BE INSTALLED AT THE HANDHOLE NEAREST THE CABINET.

(Q) INSTALL 2" PVC SCHEDULE 80 CONDUIT, BORED.

(R) INSTALL 1" LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE.

GENERAL NOTES

1. STATIONS AND OFFSETS ARE FROM THE MD 7 BASELINE.
2. SEE SHEET SN-2 FOR GROUND MOUNT SIGNS, SIGNS BANDED TO POLES AND PAVEMENT MARKINGS.
3. ALL LOOP DETECTORS SHALL BE INSTALLED AFTER GRINDING IS COMPLETE AND BEFORE THE FINAL SURFACE COURSE OF ASPHALT IS PLACED.
4. THE CONTRACTOR SHALL TEST PIT FOR EXISTING UTLITIES PRIOR TO INSTALLING ANY CONDUIT, FOUNDATIONS AND HANDHOLES.
5. ALL CONDUIT AND HANDBOXES UNDER PROPOSED SIDEWALK AND DRIVEWAY APRONS SHALL BE TRENCHED AND IN PLACE PRIOR TO CONSTRUCTING THE PROPOSED SIDEWALK AND/OR DRIVEWAY APRONS.
6. EXTRA COIL SHALL BE ADDED TO EACH SIGNAL HEAD TO ALLOW FOR MOVEMENT DURING MAINTENANCE OF TRAFFIC.
7. ALL WIRING INSIDE THE CONTROLLER CABINET WILL BE COMPLETED BY THE SHA SIGNAL SHOP.

REVISIONS	APPROVALS
	11-4-99 TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION
	11-4-99 ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
	11.4.99 CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
	11/4/99 DIRECTOR, TRAFFIC & SAFETY

PB / MTA
Parsons Brinckerhoff/McCormick, Taylor & Assoc., Inc.

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
SIGNAL PLAN
MD 7 AT COWENTON AVE / EBENEZER RD

DRAWN BY:	DMG	F.A.P. NO.	SEE TITLE SHEET	TS NO.	ES3944	SHEET NO.	24 OF 30
CHECKED BY:	GSJ	S.H.A. NO.	BA3175176				
SCALE:	1" = 20'	COUNTY:	BALTIMORE	T.I.M.S. NO.	D446		
DATE:	OCTOBER 1999	LOG MILE:	030007.21				

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