EXISTING SIGNALS, CAMERAS, & SIGNS

1-6,8, 11.12 — 12" BLACK FACED LED; 16" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD

a.b — VIDEO DETECTION CAMERA

13a — Elizabeth RD / Magothy Beach RD; D3-2 32" x 100"

13b — Magothy Beach RD / Elizabeth RD; D3-2 32" x 100"

14, 15, 16, 17, 18 — EAST / WEST MARYLAND 177; ASSOCIATED SHIELD ASSEMBLY SIGN 30" x 51"; ASSOCIATED SHIELD ASSEMBLY SIGN 48" x 75"

19,20 — W3-3 48" x 48"

21,22 — W3-3 36" x 36"

NO. 17 IS CONSIDERED TO RUN IN A EAST-WEST DIRECTION.

PROPOSED SIGNALS

7,9 — 12" BLACK FACED LED

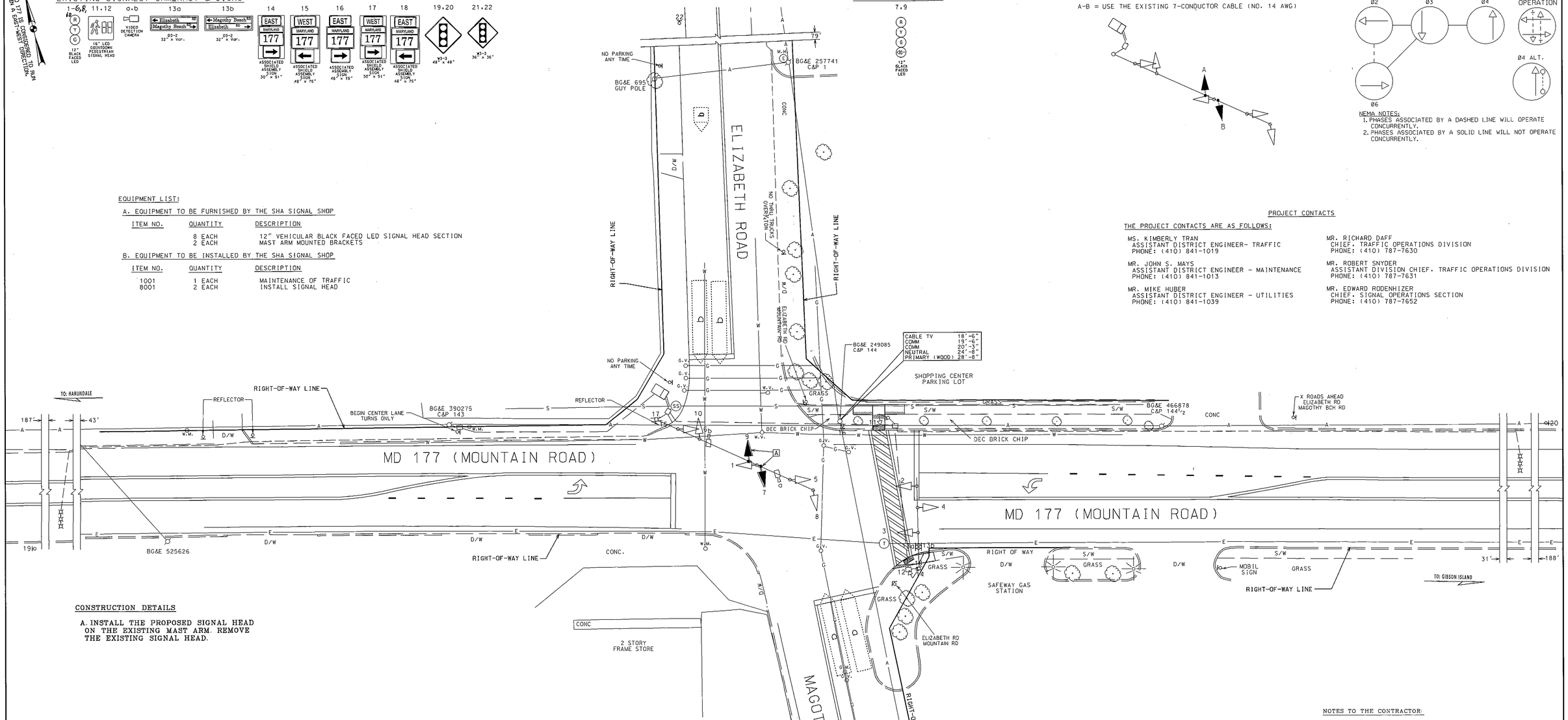
WIRING DIAGRAM

A-B = USE THE EXISTING 7-CONDUCTOR CABLE (NO. 14 AWG)

NEMA PHASING:

Ø2, Ø3, Ø4, Ø6 — FLASHING OPERATION; Ø4 ALT.

NEMA NOTES:
1. PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.
2. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.



EQUIPMENT LIST:

A. EQUIPMENT TO BE FURNISHED BY THE SHA SIGNAL SHOP

ITEM NO.	QUANTITY	DESCRIPTION
	8 EACH	12" VEHICULAR BLACK FACED LED SIGNAL HEAD SECTION
	2 EACH	MAST ARM MOUNTED BRACKETS

B. EQUIPMENT TO BE INSTALLED BY THE SHA SIGNAL SHOP

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC
8001	2 EACH	INSTALL SIGNAL HEAD

PROJECT CONTACTS

THE PROJECT CONTACTS ARE AS FOLLOWS:

MS. KIMBERLY TRAN
ASSISTANT DISTRICT ENGINEER- TRAFFIC
PHONE: (410) 841-1019

MR. JOHN S. MAYS
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 841-1013

MR. MIKE HUBER
ASSISTANT DISTRICT ENGINEER - UTILITIES
PHONE: (410) 841-1039

MR. RICHARD DAFF
CHIEF. TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

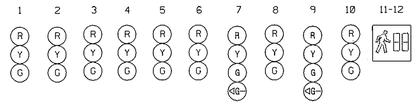
MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF. TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7631

MR. EDWARD RODENHIZER
CHIEF. SIGNAL OPERATIONS SECTION
PHONE: (410) 787-7652

CONSTRUCTION DETAILS

A. INSTALL THE PROPOSED SIGNAL HEAD ON THE EXISTING MAST ARM. REMOVE THE EXISTING SIGNAL HEAD.

PHASE CHART



	1	2	3	4	5	6	7	8	9	10	11-12	
PHASE 2 & 6	G	G	G	G	G	G	R	R	R	R	DW	← →
2 & 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	DW	
PHASE 3	R	R	R	R	R	R	R	R	◄G-G	G	DW	↓
3 CHANGE	R	R	R	R	R	R	R	R	Y	Y	DW	
PHASE 4	R	R	R	R	R	R	◄G-G	G	R	R	DW	↑
4 CHANGE	R	R	R	R	R	R	Y	Y	R	R	DW	
PHASE 4 ALT.	R	R	R	R	R	R	◄G-G	G	R	R	WK	↑ ○
PED. CLEARANCE	R	R	R	R	R	R	◄G-G	G	R	R	FL/DW	↑ ○
4 ALT. CHANGE	R	R	R	R	R	R	Y	Y	R	R	DW	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	+ +

NOTES TO THE CONTRACTOR:

1. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC AND ARE NOT TO BE CONSIDERED COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE PROJECT ENGINEER IMMEDIATELY.
2. ALL UNUSED CABLES SHALL BE REMOVED FROM THE EXISTING CONDUITS.

GEOMETRIC LEGEND

PROPOSED
EXISTING

UTILITY LEGEND

G	GAS MAIN
W	WATER MAIN
S	SEWER MAIN
E	ELECTRIC CABLES
A	AERIAL CABLES
T	TELEPHONE CABLES
D	STORM DRAIN
F	FIBER-OPTIC

DRILL HOLES

APPROVALS	REVISIONS
TEAM LEADER	C. 07/2010 - INSTALL SIDE STREET SPLIT
ASST. DIV. CHIEF	SHA NO. AX108451; TIMS NO. K236
DIVISION CHIEF	B. 12/2006 - INSTALL APS COUNTDOWN SIGNALS EAST LEG
OFFICE DIRECTOR	SHA NO. AT7025185; TIMS NO. H382
ORIGINAL ON FILE	A. 06/2005 - INSTALL VIDEO DETECTION
	SHA NO. 23854T020231; TIMS NO. H139

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

MD 177 (MOUNTAIN ROAD) AND ELIZABETH ROAD/ MAGOTHY BEACH ROAD JACOBSVILLE, MARYLAND

SCALE 1"= 20' DATE 05/2001 CONTRACT NO. XX1065485

DESIGNED BY: William Malcolm
DRAWN BY: William Malcolm
CHECKED BY: Michey Rucker
F.A.P. NO.:

COUNTY: ANNE ARUNDEL
LOGMILE: 02017704.53
TIMS NO.: K236
TOD NO.:

DRAWING NO. 4077 C - OF

SHEET NO. 1 OF 1