EXISTING SIGNALS
MD 410 @ Chelton Ave.

1-4 R Y G 12"
5,6 12"

EXISTING SIGNALS
MD 410 @ Chelton Ave.

7 WRONG WAY
8
9 NO TURN ON RED 8:30-9:30 AM 1:00-2:00 PM MONDAY-FRIDAY

EXISTING NEMA PHASING
MD 410 @ Chelton Ave.

y2 y4
y4 Alt.
FLASHING OPERATION

PROPOSED SIGNALS
MD 410 @ Montgomery Ave.

3-6 R Y G 12"
7 R Y G 8"
8,9 12"

Video Detector Camera

13 LEFT TURN YIELD ON FLASHING RED AFTER STOP
R 10-12(4) 36" x 42"

14 East-West RTE. #5300
D-3(1) 16" x Var.

12 NEW
W3-3 36"X36" NEW 24"X24"

15,17 S2-1 30" x 30"
M6-2(R) 21" x 15"
NOTE: # 15 TO BE POLE MOUNTED

16,18 S2-1 30" x 30"
M6-2(R) 21" x 15"

PROPOSED NEMA PHASING
MD 410 @ Montgomery Ave.

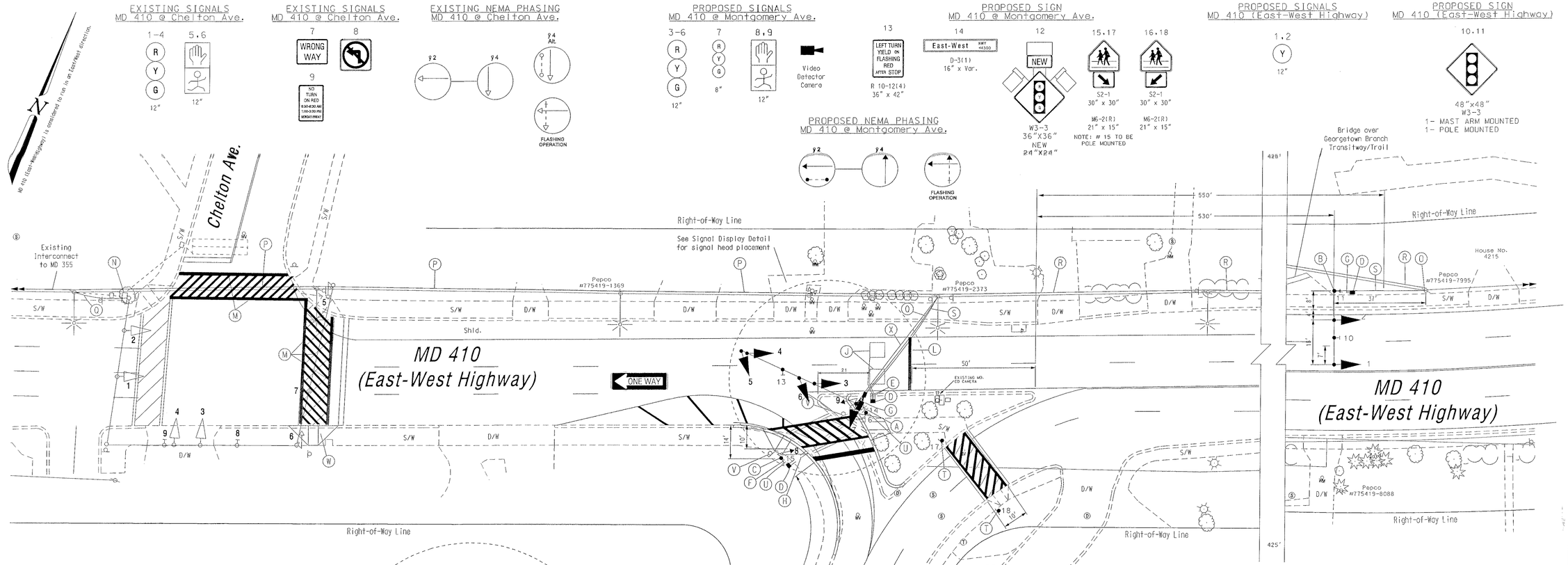
y2 y4
FLASHING OPERATION

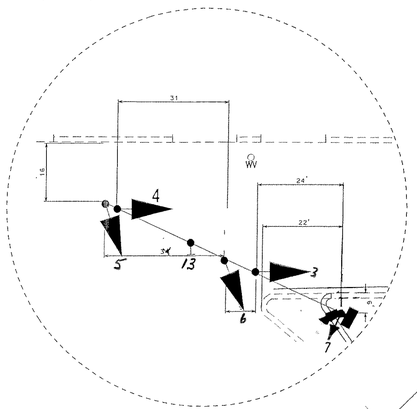
PROPOSED SIGNALS
MD 410 (East-West Highway)

1,2 Y 12"

PROPOSED SIGN
MD 410 (East-West Highway)

10,11
48"x48"
W3-3
1- MAST ARM MOUNTED
1- POLE MOUNTED





Signal Display Detail
MD 410 @ Montgomery Avenue

NOTES

1. Geometrics shown are proposed and are to be done as the Highway Project. Geometrics are shown for reference purposes only and shall be confirmed prior to the installation of the signal equipment.
2. Loop detectors and conduits shall be installed prior to the installation of pavement markings.
3. Pavement markings detailed are proposed and are to be installed by the Signal Contractor in accordance with MD-SHA standards. Only those markings at Chelton Ave are to be installed by the contractor, those at W. Mont. Ave. are shown for reference purposes only, and are to be installed as part of the Highway Project.
4. 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.

CONSTRUCTION DETAILS

A. Install 27 ft. steel mast arm pole with 50 ft. mast arm, vehicle signal heads, sign, pole mounted NEMA 5 cabinet/controller, video detector camera (at top of pole), pedestrian signal head, street name sign, an additional 3 in. weather head, and necessary equipment for an overhead electrical (MD-SHA Type P-7) service. (Note: one 3 in. PVC conduit bend).
B. Install 21 ft. steel mast arm pole [cut from a 27 ft. pole] with 35 ft. [cut from a 60 ft.] mast arm, an additional 3 in. weather head, vehicle signal heads and sign. (Note: one 3 in. PVC conduit bend).
C. Install 14 ft. steel pedestal pole on break away base with pedestrian signal head, and pole mounted signs. (Note: one 2 in. PVC conduit bend).
D. Install handhole.
E. Install 1 in. liquid tight flexible conduit for loop detector lead-in.
F. Install 2 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
G. Install 3 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
H. Install 3 in. polyvinyl chloride [Schedule 80] electrical conduit - slotted in roadway.
J. Install 6 ft. x 6 ft. vehicle loop detector (3 turns).
K. Install 12 in. wide pavement marking - white for crosswalk.
L. Install 12 in. wide pavement marking - white for stop line.
M. Re-mark existing crosswalks.
N. Replace existing conduiet with new 3 in. conduiet. Utilize existing weather head and install new interconnect cable to cabinet.
O. Use existing utility pole and attached new 5-conductor electrical cable (No. 14 A.W.G.) to existing Montgomery County fiber-optic cable.
P. Lash new interconnect cable to existing Montgomery County Fiber Optic Cable.
Q. Install new interconnect cable.
R. Lash new 5-conductor electrical cable to existing Montgomery County Fiber Optic Cable.
S. Install new 5-conductor electrical cable (No. 14 A.W.G.)
T. Replace existing sign with new florescent yellow-green sign (use existing post).
U. Install ground mounted sign as shown.
V. Remove existing sign.
W. Install SHA Type 1 (MD-655.11) ADA ramp
X. Proposed overhead electrical service by PEPCO.

GEOMETRIC LEGEND

EXISTING GEOMETRICS
PROPOSED GEOMETRICS

UTILITY LEGEND

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

The Traffic Group
The Traffic Group, Inc.
410-931-6600
Fax 410-931-6601

REVISIONS	
A	June 11, 2001
Revision Note	
S.H.A. No. 1BW995M2	
FDB	

APPROVALS

TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION — 6-25-01
ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION — 6/25/01
CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION — 6-25-01
DIRECTOR, TRAFFIC & SAFETY — 6/25/01

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
(Traffic Signal Plan)

MD 410 (East-West Highway) at Montgomery Ave.

DRAWN BY:	F. Brownley	F.A.P. NO.	N/A	TS NO. 4103	SHEET NO.
CHECKED BY:		S.H.A. NO.	M0857 A551 P50		
SCALE:	1" = 20'	COUNTY:	Montgomery	T.I.M.S. NO. E586	1 OF 2
DATE:	May 30, 2001	LOG MILE:	15041000.45		

SHEET 6 OF 12