PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of the existing traffic control signal at the intersection of MD 152 and Old Joppa Road in Harford County, Maryland. MD 152 is considered to run in a north/south direction.

II. INTERSECTION OPERATION

The intersection operates in a NEMA four (4) phase, full-traffic-actuated mode. The MD 152 through movements operate concurrently. The Old Joppa Road through movements operate concurrently.

The existing cabinet/controller will be utilized at this location. One (1) four-channel rack mounted time delay output loop detector amplifier is to be installed.

EXISTING SIGNS

9, 10

Old Joppa Rd

D-3(1)
16" x Var.
Dual Face

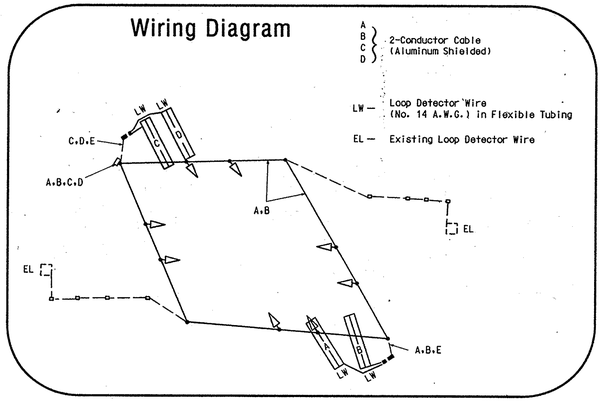
EXISTING SIGNALS

1-8

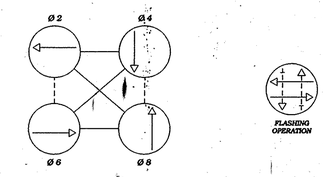
R
Y
G

12"

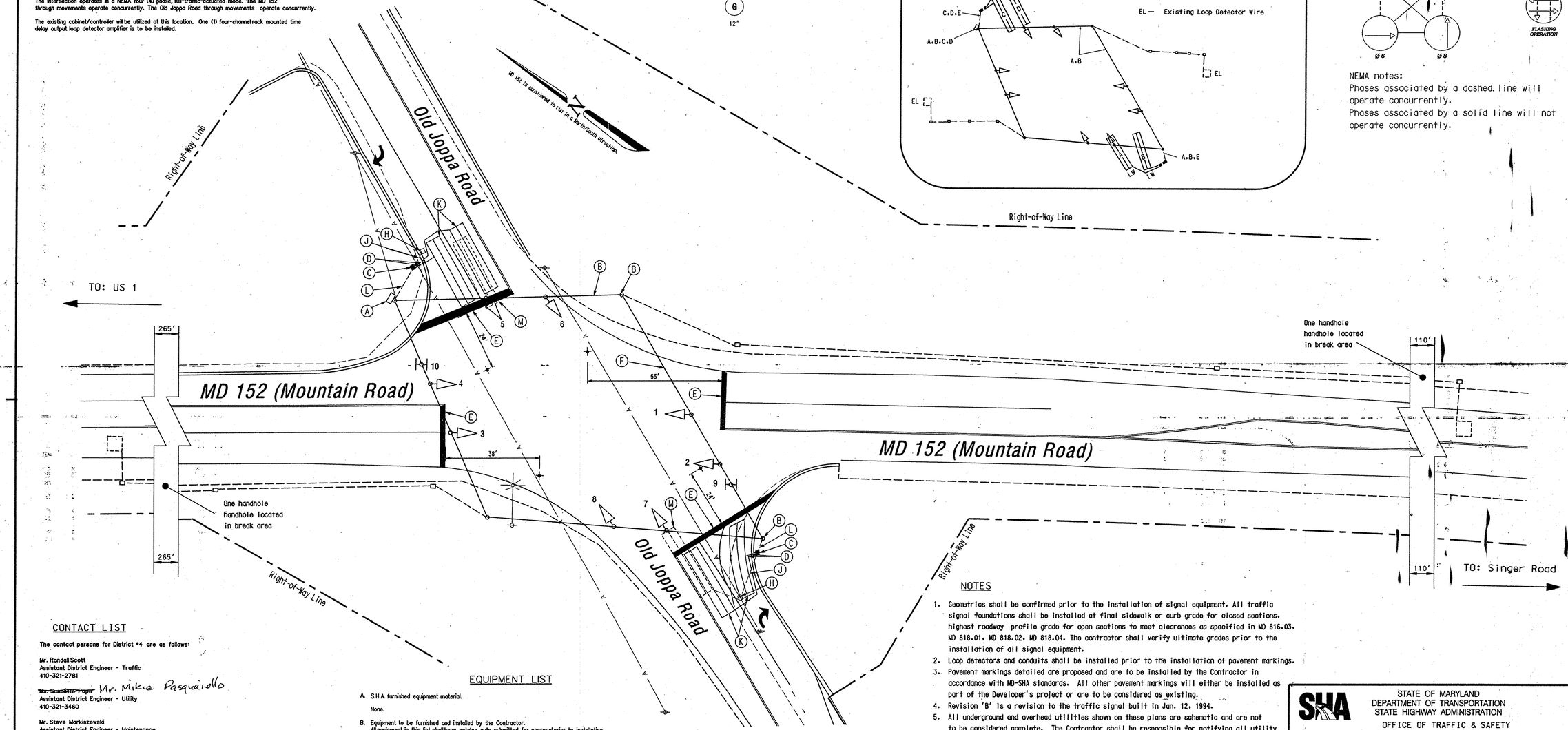
Wiring Diagram



EXISTING NEMA PHASING



NEMA notes:
Phases associated by a dashed line will operate concurrently.
Phases associated by a solid line will not operate concurrently.



CONTACT LIST

The contact persons for District #4 are as follows:

Mr. Randal Scott
Assistant District Engineer - Traffic
410-321-2781

~~Mr. Guanlito Pepa~~ Mr. Mike Pasquinello
Assistant District Engineer - Utility
410-321-3460

Mr. Steve Markiszewski
Assistant District Engineer - Maintenance
410-321-2761

Mr. Richard L. Daff
Chief, Traffic Operations Division
410-787-7630

NOTES

1. Geometrics shall be confirmed prior to the installation of signal equipment. All traffic signal foundations shall be installed at final sidewalk or curb grade for closed sections, highest roadway profile grade for open sections to meet clearances as specified in MD 816.03, MD 818.01, MD 818.02, MD 818.04. The contractor shall verify ultimate grades prior to the installation of all 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 Contractor in accordance with MD-SHA standards. All other pavement markings will either be installed as part of the Developer's project or are to be considered as existing.
4. Revision 'B' is a revision to the traffic signal built in Jan. 12, 1994.
5. 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.

EQUIPMENT LIST

A. S.H.A. furnished equipment material.

None.

B. Equipment to be furnished and installed by the Contractor.
All equipment in this list shall have catalog cuts submitted for approval prior to installation.

Quantity	Units	MD-SHA Specification Section	Description
Lump Sum	LS	108	Mobilization.
Lump Sum	LS	104	Maintenance of traffic.
2	EA	811	Handhole.
475	EA	815	Sawcut for signal loop detector.
1715	LF	810	Loop detector wire (No. 14 A.W.G.) encased in flexible tubing.
560	LF	810	2-conductor (aluminum shielded) electrical cable (No. 14 A.W.G.).
20	LF	805	1 in. liquid tight flexible non-metallic conduit for loop detector sleeve.
1	EA	---	Four (4) channel rack mounted amplifier.
95	LF	549	24 in. wide HAPPTPM - white for stop line.
Lump Sum	LS	---	As-built for S.H.A. (on CADD).

CONSTRUCTION DETAILS

A. Use existing pole mounted cabinet/controller, and all attached equipment.
B. Use existing steel strain pole.
C. Install handhole on existing conduit run.
D. Install 1 in. liquid tight flexible conduit for loop detector lead-in.
E. Install 24 in. wide pavement marking - white for stop line.
F. Use existing span wire.
G. Abandon existing loop detector.
H. Remove existing handhole.
J. Cap and abandon existing conduit.
K. Install 6 ft. x 30 ft. quadrupole type vehicle loop detector (3-6-3 turns).
L. Use existing conduit.

GEOMETRIC LEGEND

EXISTING GEOMETRICS
PROPOSED GEOMETRICS

UTILITY LEGEND

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

The Traffic Group, Inc.
Suite H
9900 Franklin Square Drive
Baltimore, Maryland 21236
410-931-6600
1-800-583-8411
Fax 410-931-6601

APPROVALS	REVISIONS
TEAM LEADER	(B) Add loop detection on Old Joppa due to road widening — January 4, 2007 — S.H.A. No.: BW996M82 — FJH
ASST. DIV. CHIEF	A ASBUILT — April, 1994 — Change to full traffic actuated. — S.H.A. No.: BW996M82
DIVISION CHIEF	
OFFICE DIRECTOR	

ORIGINAL ON FILE

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

Fallston Commons

MD 152 (Mountain Road) at Old Joppa Road

TRAFFIC SIGNAL PLAN

SCALE 1" = 20' DATE 1-12-1994 CONTRACT NO. AW-454-501-485

DESIGNED BY Bruce Thompson
DRAWN BY Bruce Thompson
CHECKED BY Dennis Doda
F.A.P. NO.
COUNTY Harford
LOG MILE 12015206.19
T.I.M.S. NO. H-204
TOD NO.

DRAWING NO. TS 2348-B SHEET NO. 1 OF 1

DRILL HOLES
DRILL HOLES
DRILL HOLES