PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE MODIFICATION TO THE EXISTING TRAFFIC SIGNAL AT MD 75 (GREEN VALLEY ROAD) AT MD 144 (OLD NATIONAL PIKE) IN FREDERICK COUNTY.

MD 75 IS ASSUMED TO RUN IN A NORTH AND SOUTHBOUND DIRECTION.

II. INTERSECTION OPERATION

THE INTERSECTION CURRENTLY OPERATES IN A NEMA SIX-PHASE OPERATION. THE CURRENT EXCLUSIVE/PERMISSIVE PHASE WAS ORIGINALLY MODIFIED TO A "PROCEED ON FLASHING RED AFTER STOP", BUT NOW WILL BE RE-PROGRAMMED TO THE FUNCTION THAT IS A STANDARD EXCLUSIVE LEFT-TURN PHASE.

EQUIPMENT LISTS

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION

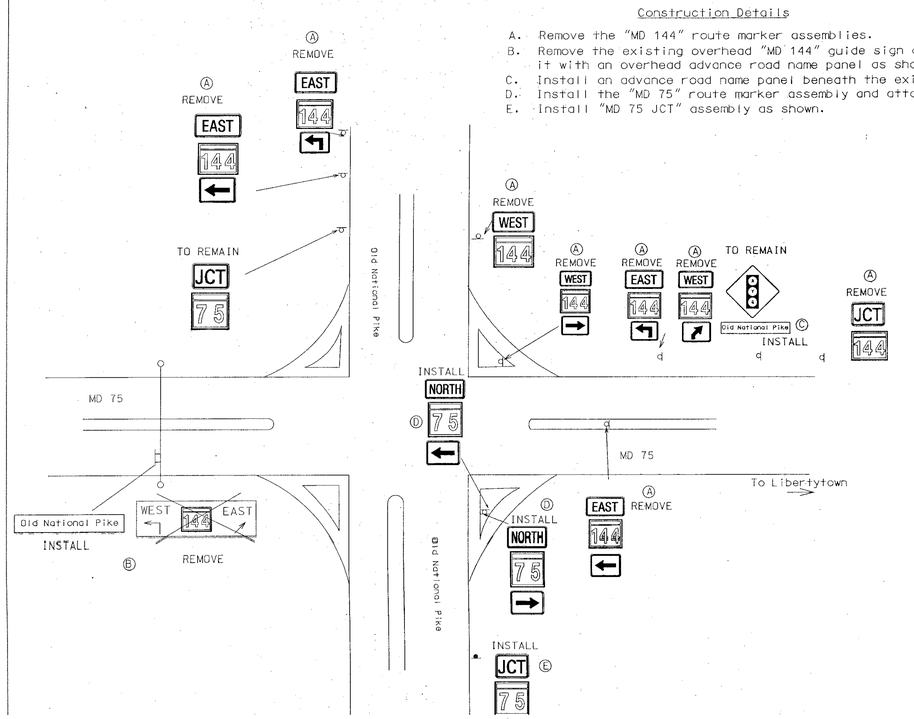
ITEM NO.	QUANTITY	DESCRIPTION
9000	1 EA	NEMA LOAD SWITCH
9004	13 SF	Sheet Aluminum Signs (Blue or Green)
		D3-2 "Old National Pike" variable x 16" 1 each (13 SF) Overhead mounted
9089	52.13 SF	Sheet Aluminum Signs Yellow, Orange, Silver)
		Guide Shield Assembly (M2-1 "JCT" (21x15), M1-6 "75", (24x24)) 1 each (6.19 SF) - Ground mount
		Guide Shield Assembly (M3-1 "NORTH", (24x12), M1-6 "75" (24x24), M6-1R "right arrow" (21x15) 1 each (8.19 SF) - Ground mount
		Guide Shield Assembly (M3-1 "NORTH", (36x15), M1-6 "75" (36x36), M6-1R "left arrow" (30x24) 1 each (17.75 SF) - Ground mount
		D3-2 "Old National Pike" variable x 24" 1 each (20 SF) - Ground mount

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NO.	QUANTITY	DESCRIPTION
8048	1 each	Remove and dispose of existing material and equipment
8074	52.13 S.F.	Install ground mounted sign
9090	13 S.F.	Install Overhead Sign

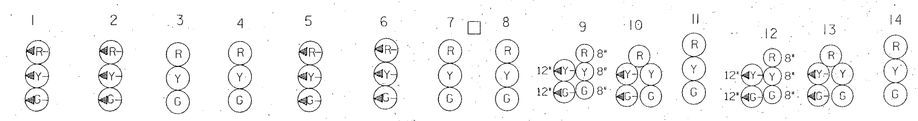
Construction Details

A. Remove the "MD 144" route marker assemblies.
B. Remove the existing overhead "MD 144" guide sign and replace it with an overhead advance road name panel as shown.
C. Install an advance road name panel beneath the existing W3-3 (signal ahead sign).
D. Install the "MD 75" route marker assembly and attach to the signal pole as shown.
E. Install "MD 75 JCT" assembly as shown.



PHASE CHART

NOTE: THE SIGNAL SHOP IS TO RE-PROGRAM THE EXISTING CONTROLLER TO A FUNCTION FOR A STANDARD EXCLUSIVE LEFT-TURN PHASE.



	1	2	3	4	5	6	7	8	9	10	11	12	13	14
PHASE 1 & 5	◀G-	◀G-	R	R	◀G-	◀G-	R	R	R	R	R	R	R	R
1 & 5 CHANGE	THE CONTROLLER MAY SKIP TO PHASES 1 & 6 OR 2 & 5 OR 2 & 6													
PHASE 1 & 6	◀G-	◀G-	G	G	◀R	◀R	R	R	R	R	R	R	R	R
1 CHANGE	◀Y-	◀Y-	G	G	◀R	◀R	R	R	R	R	R	R	R	R
PHASE 2 & 5	◀R	◀R	R	R	◀G-	◀G-	G	G	R	R	R	R	R	R
5 CHANGE	◀R	◀R	R	R	◀Y-	◀Y-	G	G	R	R	R	R	R	R
PHASE 2 & 6	FL/RA	FL/RA	G	G	FL/RA	FL/RA	G	G	R	R	R	R	R	R
2 & 6 CHANGE	◀R	◀R	Y	Y	◀R	◀R	Y	Y	R	R	R	R	R	R
PHASE 3 & 7	◀R	◀R	R	R	◀R	◀R	R	R	◀G-R	◀G-R	R	◀G-R	◀G-R	R
3 & 7 CHANGE	THE CONTROLLER MAY SKIP TO PHASES 3 & 8 OR 4 & 7 OR 4 & 8													
PHASE 3 & 8	◀R	◀R	R	R	◀R	◀R	R	R	R	R	R	◀G-G	◀G-G	G
3 & 8 CHANGE	◀R	◀R	R	R	◀R	◀R	R	R	R	R	R	◀Y-G	◀Y-G	G
PHASE 4 & 7	◀R	◀R	R	R	◀R	◀R	R	R	◀G-G	◀G-G	G	R	R	R
4 & 7 CHANGE	◀R	◀R	R	R	◀R	◀R	R	R	◀Y-G	◀Y-G	G	R	R	R
PHASE 4 & 8	◀R	◀R	R	R	◀R	◀R	R	R	G	G	G	G	G	G
4 & 8 CHANGE	◀R	◀R	R	R	◀R	◀R	R	R	Y	Y	Y	Y	Y	Y
FLASHING OPERATION	FL/RA	FL/RA	FL/Y	FL/Y	FL/RA	FL/RA	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R

REVISIONS	APPROVALS
A. 07/91 AS BUILT WM	CHIEF, SIGNAL & DESIGN SECTION
B. 07/91 - UPGRADE TO FULL SIGNAL & E/P LT MD. 75 S.H.A. # WM	ASST. DISTRICT ENGINEER, TRAFFIC
C. 04/98 - E/P MD 144 E/W MEL	CHIEF, TRAFFIC ENGINEERING DIVISION
D. CONVERT MD 75 TO EXCLUSIVE LEFT-TURN XX1065585 11/01	DEPUTY CHIEF ENGINEER, OFFICE OF TRAFFIC

NOT A REVISION TO THIS SIGNAL 855-29-7051 DATED 1-2-89 ORIGINAL PLAN ON FILE

MDOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic
TRAFFIC ENGINEERING DIVISION

SIGNAL # 10007508.35

DRAWN BY: B. K. MILLER (for STS)
DES. BY: R. R. ZACHERL (for STS)
CHK. BY: D. J. DODA 6-8-89

MD. 75 & MD. 144

COUNTY: FREDERICK

DATE: 3-2-89
SCALE: 1" = 20'
F.A.P. NO.
S.H.A. NO. 2385ST2509307
TS/STD. NO. TS-2562 D
SHEET NO. 2 OF 2