

PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of an existing Traffic Control Signal with street lighting and interconnect at the intersection of MD 140 and MD 97/ Malcolm Drive in Carroll County. The modification involves the addition of a southbound Malcolm Drive right turn lane. MD 140 is assumed to run in an east-west direction.

II. INTERSECTION OPERATION

- The intersection is to continue operating in a NEMA six-phase, fully-actuated mode, with the MD 140 approaches running concurrently. Exclusive left turn phases shall remain on for both approaches of MD 140. The MD97/Malcolm Drive approaches shall continue operating as a side street split.
- There are no modifications necessary in the cabinet, the proposed 2-conductor aluminum shielded cable shall be wired to an existing amplifier.

III. SPECIAL NOTES

- All field wiring to the existing controller cabinet shall be terminated to the appropriate controller cabinet connectors by the Contractor and labeled. All other controller cabinet wiring will be performed by the S.H.A. Signal Shop. Contact Mr. Ed Rodenhizer at (410) 787-7650 seventy-two hours in advance of intended work.

A. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

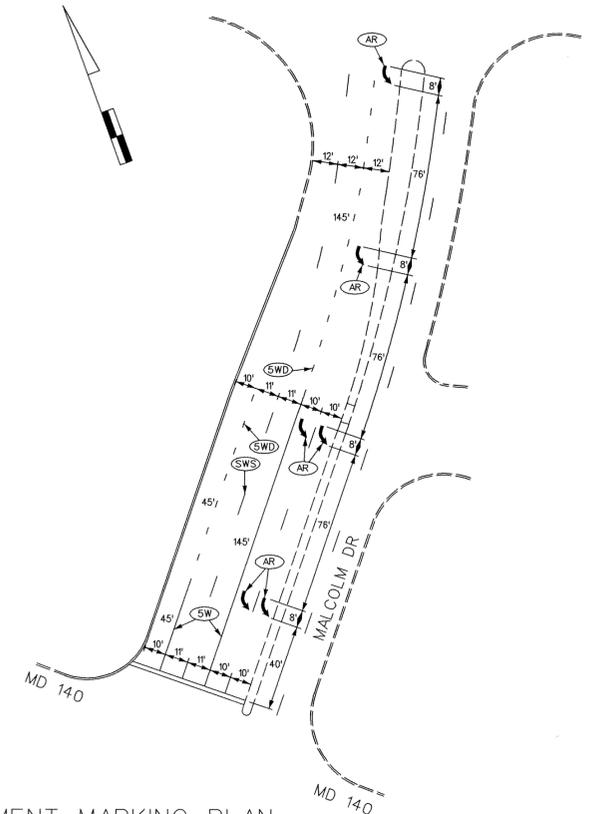
DESCRIPTION	QUANTITY	
Mobilization	LUMP SUM	
Maintenance of traffic	LUMP SUM	
Temporary traffic signs	150	SF
Flashing arrow panels	5	SF
Overhead mounted sheet aluminum sign consisting of:	7.5	SF
R3-5L "LEFT TURN ONLY" sign, (30" x 36") span wire mounted.	1	EA
6" white heat applied permanent thermoplastic marking material (for lanelines, puppy tracks, skips)	370	L.F.
24" white heat applied permanent thermoplastic marking material (stoplines)	60	L.F.
Thermoplastic pavement marking arrow. (left)	6	Each
Remove existing pavement markings	700	L.F.
Remove existing pavement marking "ONLY" or arrow.	8	Each
Saw cut for signal (loop detector).	490	L.F.
1" galvanized steel electrical conduit (detector wire sleeve)	30	L.F.
1" liquid tight flexible non-metallic conduit for detector sleeve.	15	L.F.
Furnish and install 2" schedule 80 rigid polyvinyl chloride - trenched	10	L.F.
Furnish and install 3" schedule 80 rigid polyvinyl chloride conduit - trenched	90	L.F.
Furnish and install electrical handhole.	1	EA
Furnish and install loop wire encased in flexible tubing (No. 14 AWG).	1860	L.F.
Furnish and install electrical cable - 2 conductor (aluminum shielded).	800	L.F.

A. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR CONTINUED

DESCRIPTION	QUANTITY	
Adjust existing handhole	1	Each
Remove existing ground or overhead mounted sign	4	Each
Relocate existing overhead sign	1	Each
Remove existing handhole	1	Each

PAVEMENT MARKING LEGEND
SWS - 5" WHITE SKIP LINE (10' LINE, 30' SPACE)
5WD - 5" WHITE DOTTED LINE (3' LINE, 9' SPACE)
5Y - 5" YELLOW SOLID LINE
5W - 5" WHITE SOLID LINE
24W - 24" PREFORMED PLASTIC WHITE STOPLINE TAPE
5DY - 5" DOUBLE YELLOW SOLID LINE
AR - 8" WHITE PREFORMED PAVEMENT MARKING ARROW
LT - 8" PREFORMED PAVEMENT MARKING LETTER 'ONLY'
10Y - 10" YELLOW SOLID LINE
10W - 10" WHITE SOLID LINE
SY - 12" WIDE PREFORMED PAVEMENT MARKING SYMBOL
12W - 12" WHITE SOLID LINE

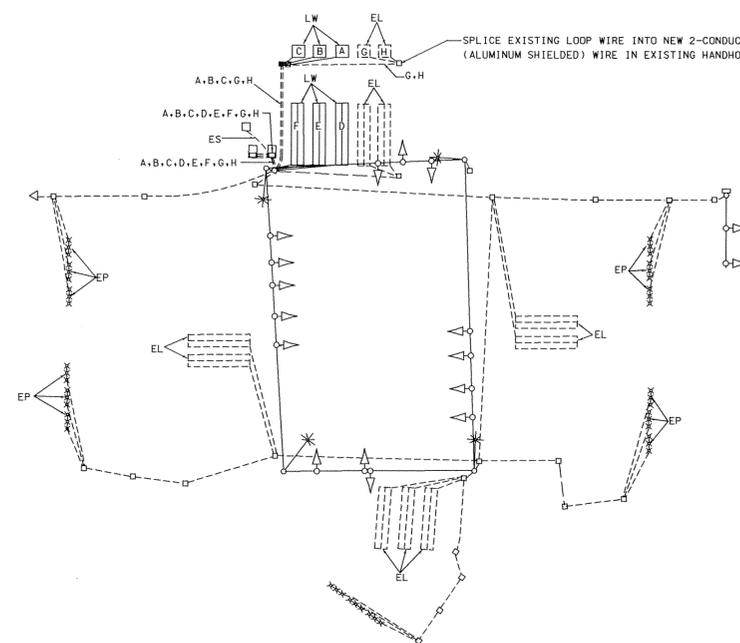
- NOTES:
- ALL PROPOSED PAVEMENT MARKINGS SHALL BE MADE OF HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC MARKING MATERIAL.
 - ALL EXISTING "ARROWS" AND "ONLYS" PAVEMENT MARKINGS SHALL BE REMOVED BY THE CONTRACTOR.



PAVEMENT MARKING PLAN

SCALE: 1"=40'

WIRING DIAGRAM



WIRING KEY	
A	2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) (ALUMINUM SHIELDED)
B	
H	
EP	EXISTING MIRRORLOOP PROBE
EL	EXISTING LOOP
ES	EXISTING UNDERGROUND SERVICE BY BGE

REVISIONS	APPROVALS
REVISION "A"	ASST. CHIEF TEDD SECTION
	ASST. DISTRICT ENGINEER, TRAFFIC
	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
	DIRECTOR, TRAFFIC & SAFETY

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
 MD 140 AND MALCOLM DRIVE

DRAWN BY: W. J. NIES	COUNTY: CARROLL	TS NO. 165L	SHEET NO. 2 OF 2
CHECK BY: R. R. ZACHERL	LOG MILE: 06014008.00	T.I.M.S. NO.	
DATE: 5-25-99	F.A.P. NO.		
SCALE: N.A.	S.H.A. NO. CL7845176		

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