F.H.W.A. REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	MD	SEE TITLE SHEET	149	156

INTERSECTION OPERATION

MD 26 at MD 194

1.) The ultimate intersection operation will remain as in Phase 4 construction.

A NEMA four phase operation with an exclusive/ permissive southbound MD 194 left turn will be provided. The ultimate MD 26/ MD 194 intersection will be in operation. Westbound MD 26 sampling stations will be activated and an interconnected signal system along MD 26 between MD 355 and MD 194 will operational.

CONSTRUCTION DETAILS

C. Install handhole.

D. Install 1" liquid tight flexible non-metallic conduit sleeve for loop detector lead-in.

E. Install 2" polyvinyl chloride schedule 40 electrical conduit - trenched/buried.

F. Install 3" polyvinyl chloride schedule 80 electrical conduit - bored/under existing pavement.

G. Install 6' x 6' loop detector (3 turns).

H. Install 6' x 30' quadrupole loop detector. (2-4-2 turns)

K. Install 3/8" steel span wire, signal head, signs, and 1/4" tether wire for signs as shown.

N. Install permanent preformed pavement marking arrow and/or word 'ONLY'.

T. Use existing controller cabinet. Disconnect existing loop detector lead-in cable(s) and install proposed loop detector lead-in cable(s).

V. Use existing conduit.

W. Use existing span wire, install, relocate, or remove signal heads and/or signs as shown.

X. Use existing handhole.

DD. Abandon existing loop detector.

OO. Install 3" polyvinyl chloride electrical conduit- trenched/buried.

XX. Install interconnect cable.

YY. Install 24 inch white preformed pavement marking for stop line.

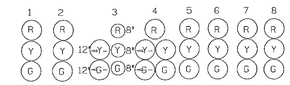
EQUIPMENT LISTS

A. Equipment to be furnished by S.H.A.

QUANTITY	UNIT	SPECIFICATION SECTION	DESCRIPTION
46	SF	813	Sheet aluminum signs consisting of:
2	EA		R3-4 (30" x 30"), "NO 'U' TURN' - symbolic
1	EA		D3-2 (16" x var.), "Liberty RD →" - span mount, (8"/6" & 4" letters)
2	EA		D3-2 (16" x var.), "← Liberty RD" - span mount, (8"/6" & 4" letters)

B. Equipment to be furnished and/or installed by the Contractor.

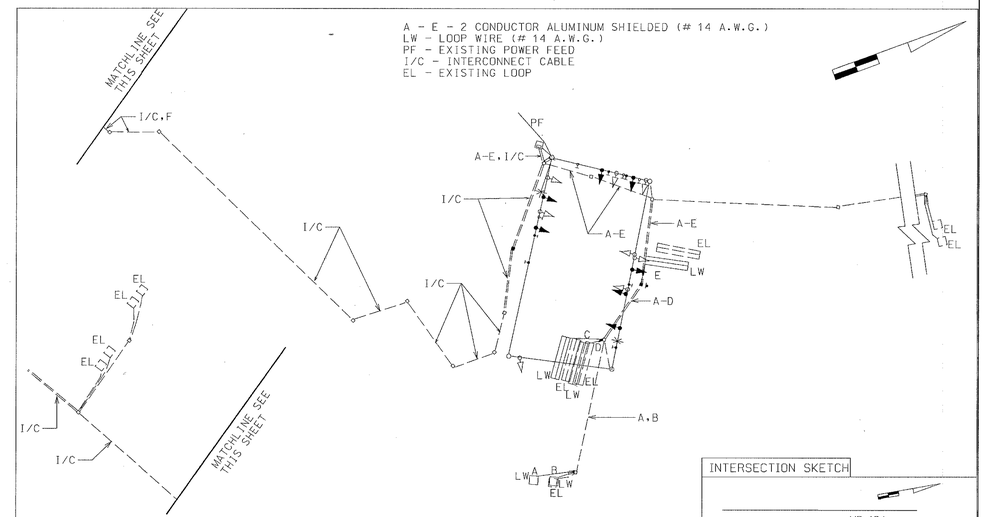
QUANTITY	UNIT	SPECIFICATION SECTION	DESCRIPTION
4	EA	555	Permanent preformed pavement marking letter
8	EA	555	Permanent preformed pavement marking arrow
90	LF	555	24 inch white preformed pavement marking tape
50	LF	805	1" liquid tight flexible non-metallic conduit for detector sleeve
210	LF	805	3" schedule 80 rigid PVC conduit-bored
1155	LF	810	Electrical cable- 2 conductor (aluminum shielded)
1020	LF	810	Loop wire encased in flexible tubing (No. 14 AWG)
2	EA	811	Electrical Handhole
53	SF	813	Install overhead sign
39	SF	813	Relocate signs from existing overhead structure
1	LS	XXX	Remove and salvage existing equipment
8	EA	814	Relocate existing signal head
410	LF	815	Sawcut for signal (loop detector)
1	LS	816	SHA shop wiring of controller
1	EA	XXX	As-built signal plans



PHASE 2&5	R	R	G,→G-	G,→G-	G	R	R	R	
2&5 CHANGE	R	R	G,→Y-	G,→Y-	G	R	R	R	
PHASE 2&6	G	G	G	G	G	R	R	R	
2&6 CHANGE	Y	Y	Y	Y	Y	R	R	R	
PHASE 7	R	R	R	R	R	G	G	G	
7 CHANGE	R	R	R	R	R	Y	Y	Y	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	

NOTE:
R = RED INDICATION
Y = YELLOW INDICATION
G = GREEN INDICATION
FL/Y = FLASHING YELLOW
FL/R = FLASHING RED
→G- = GREEN ARROW
→Y- = YELLOW ARROW

A - E - 2 CONDUCTOR ALUMINUM SHIELDED (# 14 A.W.G.)
LW - LOOP WIRE (# 14 A.W.G.)
PF - EXISTING POWER FEED
I/C - INTERCONNECT CABLE
EL - EXISTING LOOP



ULTIMATE TRAFFIC SIGNAL GENERAL INFORMATION

SG - 16

REVISIONS	APPROVALS
	CHIEF, SIGNAL DESIGN SECTION
	ASST. DISTRICT ENGINEER, TRAFFIC
	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
	DIRECTOR, OFFICE OF TRAFFIC & SAFETY

DGL CONSULTING ENGINEERS COLUMBIA, MARYLAND

MDOT - STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

ORIGINAL DRAWN BY RJM
DES. BY RJM
CHK. BY
DATE: 4/95
SCALE: NTS

MD 26 @ MD 194

LOG MILE 10002602.26 COUNTY: FREDERICK

F.A.P. NO.
S.H.A. NO. F-174-501-771

TS/FILE NO. 1837C-GI

SHEET NO. 149 OF 156

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