

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AND STREET LIGHTING AT THE INTERSECTION OF U.S. 301 AND MD 976-C IN PRINCE GEORGE'S COUNTY. U.S. 301 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA SIX PHASE, FULL-TRAFFIC-ACTUATED MODE WITH THE U.S. 301 APPROACHES OPERATING CONCURRENTLY AND THE MD 976-C APPROACHES OPERATING CONCURRENTLY. NORTHBOUND AND SOUTHBOUND U.S. 301 HAVE EXCLUSIVE/PERMISSIVE LEFT-TURN PHASES.

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CABINET, EIGHT-PHASE CONTROLLER WILL BE USED.

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MR. CHARLES WATKINS
DISTRICT ENGINEER
PHONE: (301) 513-7311

MR. AUGIE REBISH
DISTRICT UTILITIES ENGINEER
PHONE: (301) 513-7350

MR. MAJIB SHAKIB
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (301) 513-7358

MR. RICHARD L. DAFF, SR.
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

MR. RANDY BROWN
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (301) 513-7304

MAINTENANCE OF TRAFFIC

THE FOLLOWING WORK ZONE TRAFFIC CONTROL STANDARDS SHALL BE USED FOR THE PROJECT.

STANDARD NO. MD-104.00-104.00-12

STANDARD NO. MD-104.45-01 (RIGHT LANE CLOSURE)

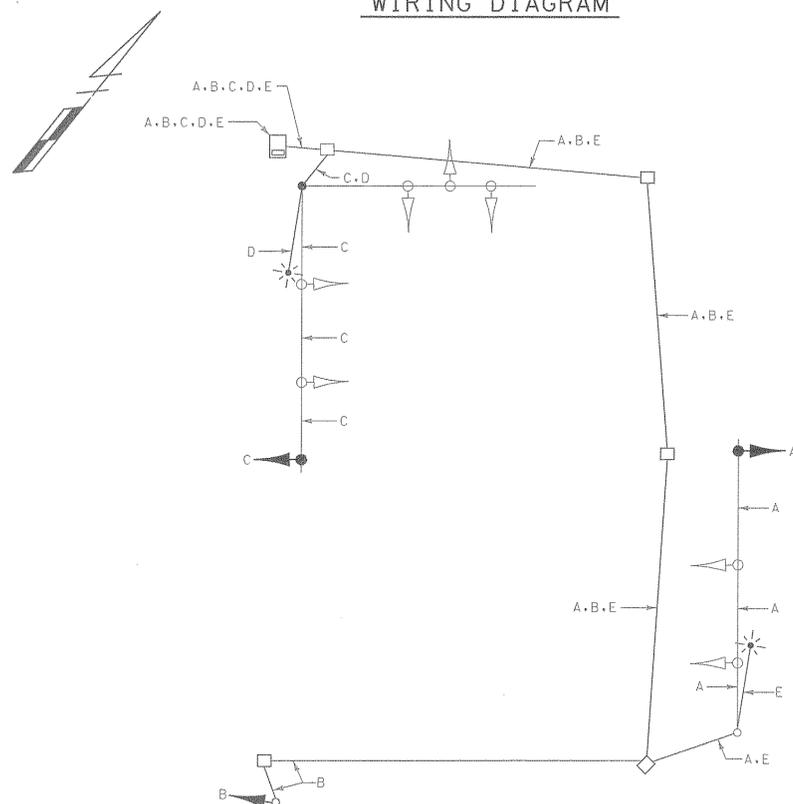
STANDARD NO. MD-104.31-01 (FLAGGING OPERATION)

STANDARD NO. MD-104.46-01 (CENTER LANE CLOSURE)

STANDARD NO. MD-104.49-01 (SHOULDER WORK)

STANDARD NO. MD-104.44-01 (LEFT LANE CLOSURE)

WIRING DIAGRAM



WIRING KEY

- A } 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- B } 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- C } 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- D } 2-CONDUCTOR ELECTRICAL CABLE (NO. 12 A.W.G.)
- E } 2-CONDUCTOR ELECTRICAL CABLE (NO. 12 A.W.G.)

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY SHA

ITEM NO.	QUANTITY	DESCRIPTION
9019	2 EACH	8 IN./12 IN., ONE-WAY, FIVE-SECTION (R,Y,YA,G,GA) TRAFFIC SIGNAL HEAD WITH ADJUSTABLE BRACKET FOR MAST ARM MOUNTING AND TUNNEL VISORS.
9036	1 EACH	12 IN., ONE-WAY, THREE-SECTION (R,Y,G) TRAFFIC SIGNAL HEAD WITH ADJUSTABLE BRACKET FOR SIDE OF POLE MOUNTING AND TUNNEL VISORS.
9089	26 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF : - 1 EACH R3-5R SIGN (30 IN. X 36 IN.) - MAST ARM MOUNT. - 2 EACH R6-1 (L) SIGN (36 IN. X 12 IN.) - GROUND MOUNT. - 4 EACH R6-1 (R) SIGN (36 IN. X 12 IN.) - GROUND MOUNT.

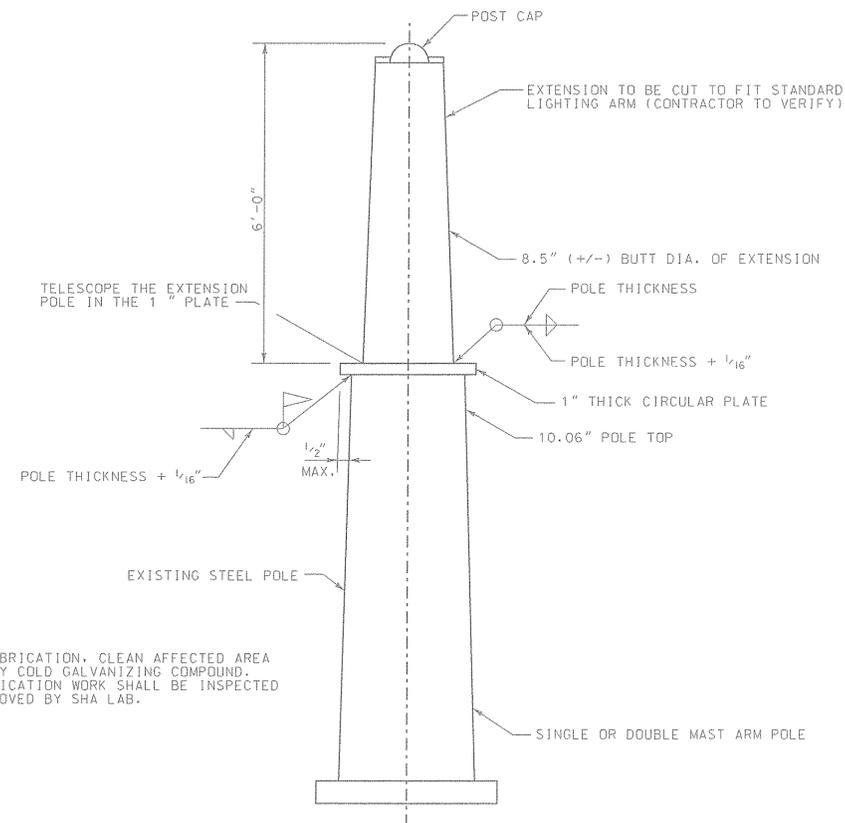
EQUIPMENT LIST "B"

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

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
5002	70 L.F.	6 IN. WHITE PERMANENT PREFORMED PAVEMENT MARKING TAPE
5004	30 L.F.	24 IN. WHITE PERMANENT PREFORMED PAVEMENT MARKING TAPE
5006	1 EACH	PERMANENT PREFORMED PAVEMENT MARKING ARROW
8011	3 EACH	INSTALL SIGNAL HEAD - ANY TYPE
8045	860 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.)
8046	470 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 A.W.G.)
8051	28 L.F.	FURNISH AND INSTALL WOOD SIGN SUPPORTS 4 IN. X 4 IN.
8053	18 S.F.	INSTALL GROUND MOUNTED SIGN
8054	8 S.F.	INSTALL OVERHEAD SIGN
8056	2 EACH	FURNISH AND INSTALL 250 WATT HPS LUMINAIRE WITH PHOTOCCELL
8057	2 EACH	FURNISH AND INSTALL 20 FT. LIGHTING BRACKET ARM FOR TRAFFIC SIGNAL STRUCTURE
8061	1 EACH	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT PER ASSIGNMENT
NEG	2 EACH	FURNISH AND INSTALL MAST ARM EXTENSION FOR LIGHTING ARM

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

MAST ARM EXTENSION FOR STREET LIGHTING ARM



NOTE:

AFTER FABRICATION, CLEAN AFFECTED AREA AND SPRAY COLD GALVANIZING COMPOUND. ALL FABRICATION WORK SHALL BE INSPECTED AND APPROVED BY SHA LAB.

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13
PHASE 1 + 5	R	R	R	R	R	R	R	R	R	R	R	R	R
1 + 5 CHANGE	1 + 5 MAY CHANGE TO PHASE 1 + 6, PHASE 2 + 5 OR PHASE 2 + 6												
PHASE 1 + 6	G	G	G	G	G	G	G	G	G	G	G	G	G
1 + 6 CHANGE	1 + 6 MAY CHANGE TO PHASE 1 + 5, PHASE 2 + 5 OR PHASE 2 + 6												
PHASE 2 + 5	R	R	R	R	R	R	R	R	R	R	R	R	R
2 + 5 CHANGE	2 + 5 MAY CHANGE TO PHASE 1 + 5, PHASE 1 + 6, PHASE 2 + 6 OR PHASE 4 + 8												
PHASE 2 + 6	G	G	G	G	G	G	G	G	G	G	G	G	G
2 + 6 CHANGE	2 + 6 MAY CHANGE TO PHASE 1 + 5, PHASE 1 + 6, PHASE 2 + 5 OR PHASE 4 + 8												
PHASE 4 + 8	R	R	R	R	R	R	R	R	R	R	R	R	R
4 + 8 CHANGE	4 + 8 MAY CHANGE TO PHASE 1 + 5, PHASE 1 + 6, PHASE 2 + 5 OR PHASE 2 + 6												
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R

WR&A
Whitman, Reardon and Associates
Engineers and Planners
2315 Saint Paul Street
Baltimore, Maryland 21218
(410) 235-3450

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



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION SHEET

U.S. 301 AND MARLBORO SQ. SHOPPING CTR./ MD 976-C

DATE: 10-1-97	DRAWN BY: S. BLOSS	F.A.P. NO. AC-STPG-00051588 JE	PLAN SHEET NO. 2	SHEET NO. 2
SCALE: NONE	DESIGNED BY: N. LEARY	S.H.A. NO. 23855 T 2567407	TS-1446B	
APPROVED BY:	CHECKED BY: T. HANNAN	COUNTY: PRINCE GEORGE'S		