F.H.W.A. REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	MD	SEE TITLE SHEET	386	465

PROJECT DESCRIPTION

GENERAL

THIS PORTION OF THE PROJECT INVOLVES THE INSTALLATION OF ADDITIONAL TRAFFIC CONTROL SIGNAL EQUIPMENT AT THE MD 704 (MARTIN LUTHER KING JR. HWY.) AND LOTTSFORD VISTA ROAD/ BUSINESS PKWY. INTERSECTION IN PRINCE GEORGES COUNTY. MD 704 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THIS INTERSECTION IS TO CONTINUE TO OPERATE IN A NEMA SIX-PHASE, SEMI-TRAFFIC-ACTUATED MODE.

CONTROLLER REQUIREMENTS

THE EXISTING CONTROLLER AND CABINET ARE TO BE UTILIZED.

SPECIAL NOTE

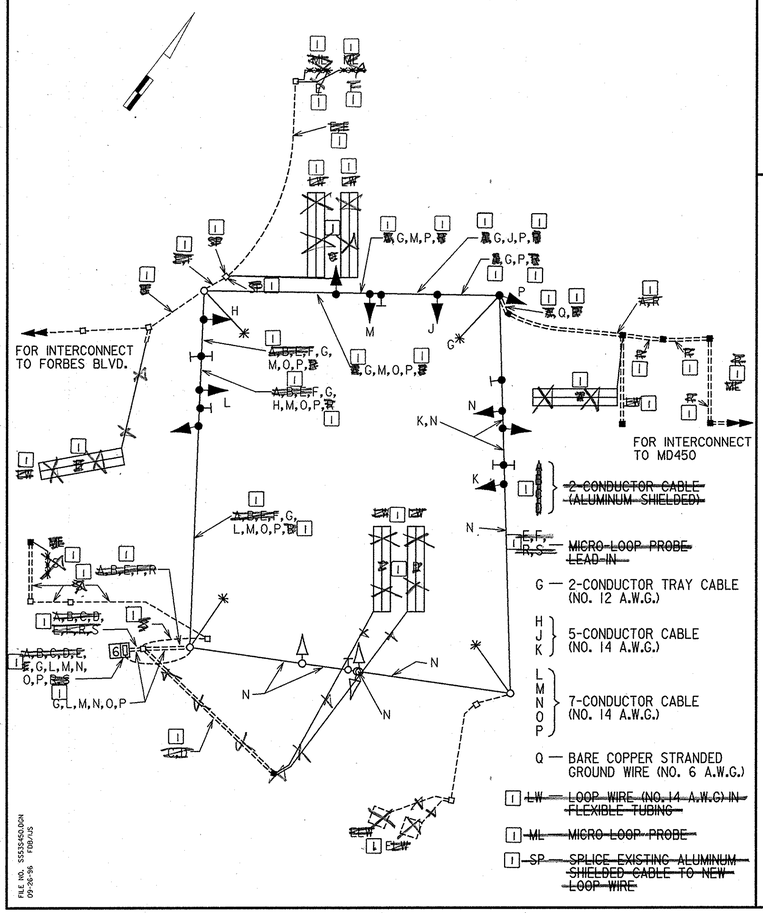
THE INTERCONNECT BETWEEN THIS INTERSECTION AND THE MD 704 AND FORBES BLVD. INTERSECTION SHALL BE MAINTAINED. THE SAMPLING LOOPS ON WESTBOUND MD 704 WEST OF THE INTERSECTION SHALL BE MAINTAINED.

UTILITY NOTE

72 HOURS PRIOR TO ANY WORK ON THE TRAFFIC SIGNALS, THE CONTRACTOR SHALL NOTIFY THE DISTRICT 3 TRAFFIC SECTION REPRESENTATIVE, MR. RICHARD BUETTNER (301-513-7316) AND THE SIGNAL OPERATIONS SUPERVISOR, MR. EDWARD RODENHIZER (410-787-7652).

ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC AND ARE NOT TO BE CONSIDERED COMPLETE BECAUSE THESE UNDERGOUND AND OVERHEAD UTILITIES MAY BE MODIFIED PRIOR TO AND DURING CONSTRUCTION. 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.

WIRING DIAGRAM



FILE NO. 5353540.DGN
09-26-96 F3B7/J5

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION

CATEGORY CODE NO.	SPEC. SECTION	QUANTITY	DESCRIPTION
960015	814	5 EA.	12 IN. 1 WAY 3 SECTION (R,Y,G) ADJUSTABLE POLYCARBONATE VEHICLE SIGNAL HEAD WITH SPAN MOUNTING HARDWARE AND TUNNEL VISORS
960020	814	2 EA.	12 IN. 1 WAY 5 SECTION (R,Y,G,YA,GA) ADJUSTABLE POLYCARBONATE VEHICLE SIGNAL HEAD WITH SPAN MOUNTING HARDWARE AND TUNNEL VISORS
960061	814	1 EA.	12 IN. 1 WAY 3 SECTION (R,Y,G) SIGNAL HEAD WITH POLE MOUNTING HARDWARE AND TUNNEL VISORS
973023	813	18 S.F.	SHEET ALUMINUM SIGNS - 1 EACH R 10-12 (36"X42") - 1 EACH R 3-5(L) (30"X36")
900000	810	1 EA.	8 IN./ 12 IN. 1 WAY 5 SECTION (8" R,Y,G - 12" YA,GA) ADJUSTABLE POLYCARBONATE VEHICLE SIGNAL HEAD WITH SPAN MOUNTING HARDWARE AND TUNNEL VISORS
1 ~~900000~~	~~810~~	~~2 EA.~~	~~MICRO-LOOP PROBE SET WITH 500 FT. LEAD IN~~
1 ~~900000~~	~~814~~	~~2 EA.~~	~~MICRO-LOOP PROBE SET WITH 1000 FT. LEAD IN~~

PHASE DIAGRAM

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

EQUIPMENT LIST "B"

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

CATEGORY CODE NO.	SPEC. SECTION	QUANTITY	DESCRIPTION
114225	104	160 L.F.	6 IN. WHITE REMOVABLE PREFORMED PAVEMENT MARKING TAPE
114245	104	130 L.F.	24 IN. WHITE REMOVABLE PREFORMED PAVEMENT MARKING TAPE
203030	205	1 C.Y.	TEST PIT EXCAVATION
801004	801	4.65 C.Y.	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
802501	810	10 L.F.	FURNISH AND INSTALL NO. 6 A.W.G. STRANDED BARE COPPER GROUND WIRE
1 ~~805011~~	~~805~~	~~20 L.F.~~	~~FURNISH AND INSTALL 1 IN. ELECTRICAL CONDUIT GALVANIZED STEEL~~
805125	805	30 L.F.	FURNISH AND INSTALL 2 IN. SCHEDULE 40 RIGID PVC CONDUIT - TRENCHED
805135	805	365 L.F.	FURNISH AND INSTALL 3 IN. SCHEDULE 40 RIGID PVC CONDUIT - TRENCHED.
805150	805	55 L.F.	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED
1 ~~805160~~	~~805~~	~~35 L.F.~~	~~FURNISH AND INSTALL 1 IN. LIQUID-TIGHT NON-METALLIC CONDUIT FOR DETECTOR SLEEVE~~
811001	811	~~2~~ 1 EA.	FURNISH AND INSTALL ELECTRICAL HANDHOLE
813015	813	18 S.F.	INSTALL OVERHEAD SIGN
837001	804	1 EA.	FURNISH AND INSTALL GROUND ROD - 3/4 IN. DIAMETER X 10 FT. LENGTH
860015	814	5 EA.	INSTALL 12 IN. 1 WAY 3 SECTION (R,Y,G) POLYCARBONATE SIGNAL HEAD - SPAN MOUNT
860020	814	2 EA.	INSTALL 12 IN. 1 WAY 5 SECTION (R,Y,G,YA,GA) POLYCARBONATE SIGNAL HEAD - SPAN MOUNT
860061	814	1 EA.	INSTALL 12 IN. 1 WAY 3 SECTION (R,Y,G) SIGNAL HEAD - POLE MOUNT
860265	814	3 EA.	RELOCATE EXISTING SIGNAL HEAD
1 ~~861104~~	~~810~~	~~1454 L.F.~~	~~FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED)~~
861107	810	59 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G)
861108	810	1175 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.)
861116	810	52 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 A.W.G.)
1 ~~862101~~	~~810~~	~~2690 L.F.~~	~~FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 A.W.G.)~~
1 ~~862101~~	~~815~~	~~910 L.F.~~	~~FURNISH AND INSTALL SAWCUT FOR SIGNAL (LOOP DETECTOR)~~
866104	818	1 EA.	FURNISH AND INSTALL 20 FT. LIGHTING ARM ON SIGNAL STRUCTURE
869101	819	252 L.F.	FURNISH AND INSTALL STEEL SPAN WIRE - 1/4 IN. DIAMETER
869102	819	252 L.F.	FURNISH AND INSTALL STEEL SPAN WIRE - 3/8 IN. DIAMETER
800000	805	112 L.F.	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
800000	813	3 EA.	RELOCATE EXISTING OVERHEAD SIGN
800000	814	1 EA.	INSTALL 8 IN./12 IN. 1 WAY 5 SECTION (8" R,Y,G- 12" YA,GA) POLYCARBONATE SIGNAL HEAD - SPAN MOUNT
1 ~~800000~~	~~810~~	~~4 EA.~~	~~INSTALL MICRO-LOOP PROBE SET~~
800000	818	1 EA.	FURNISH AND INSTALL 250 WATT HIGH PRESSURE SODIUM VAPOR LUMINAIRE WITH PHOTO-CELL
800000	818	1 EA.	FURNISH AND INSTALL 12 IN. X 32 FT. 2-PLY STRAIN POLE
800000	XXX	LUMP SUM	REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

1 RED LINE REV. NO. 1
7-14-97

TEMPORARY SIGNAL PHASE III & IV

DWG. NO. TS-40

THE WILSON T. BALLARD CO.
CONSULTING ENGINEERS
OWINGS MILLS, MARYLAND

REVISIONS

A AUGUST 1996 - WTB
MODIFY EXISTING SIGNAL
SHA NO. PG9005171
JDM

APPROVALS

ASST. DIVISION CHIEF, TEDD

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

MD 704 (MARTIN LUTHER KING JR. HWY.) AND
LOTTSFORD VISTA ROAD/BUSINESS PARKWAY

LOG MILE NO. 16070406.25 DATE 2 / - / 96

DRAWN BY: W.J. NES (FOR STS)	F.A.P. NO. N/A	PLAN SHEET NO.:	SHEET NO.
CHECK BY: R.R. ZACHERL (FOR STS)	S.H.A. NO. BW-311-802-312	TS-2637A-X3-GI	386 OF 465
SCALE: NONE	COUNTY PRINCE GEORGES		