

FHWA REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	MD			

PROJECT DESCRIPTION

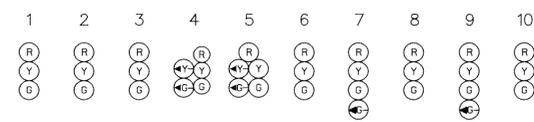
I. GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF A NEW TRAFFIC CONTROL SIGNAL WITH LIGHTING AT THE INTERSECTION OF MD 3 (BUS.) AND NOLPARK COURT IN ANNE ARUNDEL COUNTY, MD 3 (BUS.) IS CONSIDERED TO RUN IN A NORTH/SOUTH DIRECTION.

II. INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA FIVE (5) PHASE, FULLY-TRAFFIC-ACTUATED MODE, AN EXCLUSIVE/PERMISSIVE LEFT TURN PHASE FOR THE SOUTH TO EAST MOVEMENT ALONG WITH THE SIDE STREET APPROACHES OPERATING AS A SIDE STREET SPLIT. THE LOOP DETECTOR IN THE LEFT TURN LANE ALONG NORTHBOUND MD 3 (BUS) WILL BE WIRED TO PHASE 6.

PHASE CHART



Phase 2 & 5	R	R	R	G	G	G	R	R	R	R	←
5 Change	R	R	R	G	G	G	R	R	R	R	
Phase 2 & 6	G	G	G	G	G	G	R	R	R	R	→
2 & 6 Change	Y	Y	Y	Y	Y	Y	R	R	R	R	
Phase 3	R	R	R	R	R	R	G	G	R	R	↓
3 Change	R	R	R	R	R	R	Y	Y	R	R	
Phase 4	R	R	R	R	R	R	R	R	G	G	↑
4 Change	R	R	R	R	R	R	R	R	Y	Y	
Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	↕

EQUIPMENT LIST (CONT'D)

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

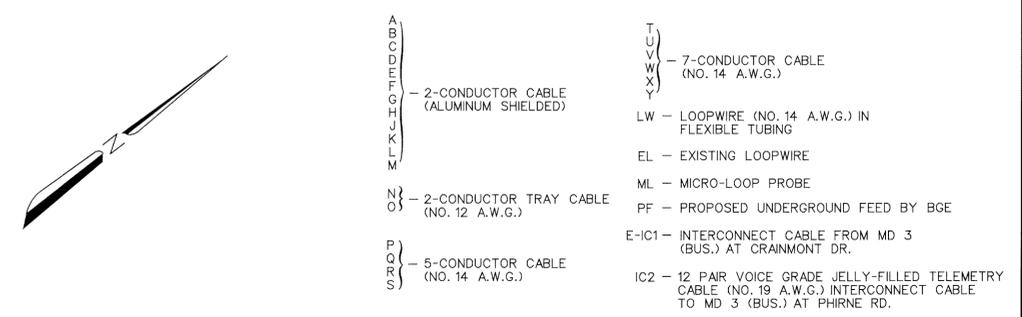
QUANTITY	UNIT	SPECIFICATION SECTION	DESCRIPTION
LUMPSUM	LS	108	MOBILIZATION
LUMPSUM	LS	104	MAINTENANCE OF TRAFFIC (TRAFFIC CONTROL)
250	SF	104	TEMPORARY CONSTRUCTION SIGNS
7	CY	205	TEST PIT EXCAVATION
1	EA	818	27' STEEL MAST ARM POLE WITH 38' MAST ARM
4	EA	---	1 3/4" X 90" ANCHOR BOLTS
1	EA	818	27' TWIN MAST ARM POLE WITH 50' AND 70' MAST ARM
4	EA	---	2" X 90" ANCHOR BOLTS
2	EA	811	HANDHOLE
762	LF	815	SAWCUT
1350	LF	810	LOOP DETECTOR WIRE (NO. 14 A.W.G.) ENCASED IN FLEXIBLE TUBING
6	EA	810	MICRO-LOOP PROBES
1280	LF	810	2-CONDUCTOR ELECTRICAL CABLE (ALUMINUM SHIELDED)
350	LF	810	2-CONDUCTOR TRAY CABLE (NO. 12 A.W.G.)
100	LF	810	5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
700	LF	810	7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
80	LF	805	1" LIQUID-TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR LOOP DETECTOR LEAD-IN
40	LF	805	2" POLYVINYL CHLORIDE (SCHEDULE 40) ELECTRICAL CONDUIT - PUSHED
100	LF	805	3" POLYVINYL CHLORIDE (SCHEDULE 80) ELECTRICAL CONDUIT - PUSHED
25	LF	805	4" POLYVINYL CHLORIDE (SCHEDULE 40) ELECTRICAL CONDUIT - TRENCHED
60	LF	805	4" POLYVINYL CHLORIDE (SCHEDULE 80) ELECTRICAL CONDUIT - PUSHED
4	EA	805	2", 90-DEGREE BEND - PVC (SCHEDULE 80)
2	EA	805	3", 90-DEGREE BEND - PVC (SCHEDULE 40)
2	EA	805	4", 90-DEGREE BEND - PVC (SCHEDULE 40)
1	EA	807	CONTROL AND DISTRIBUTION EQUIPMENT (UNDERGROUND ELECTRICAL SERVICE TYPE B-6)
150	LF	104	PREFORMED PAVEMENT MARKING - WHITE, 24" WIDE FOR STOP LINE
700	LF	810	12 PAIR VOICE GRADE JELLY-FILLED TELEMETRY CABLE (NO. 19 A.W.G.)
2	EA	806	10' LIGHTING ARM 250W H.P.S. LAMP AND LUMINAIRE
3	EA	804	GROUND ROD
6	EA	812	4" X 4" WOOD POST
6	CY	801	CONCRETE FOUNDATION
2	CY	610	CONCRETE SIDEWALK
300	LF	804	BARE COPPER GROUND WIRE (NO. 6 A.W.G.)

EQUIPMENT LIST

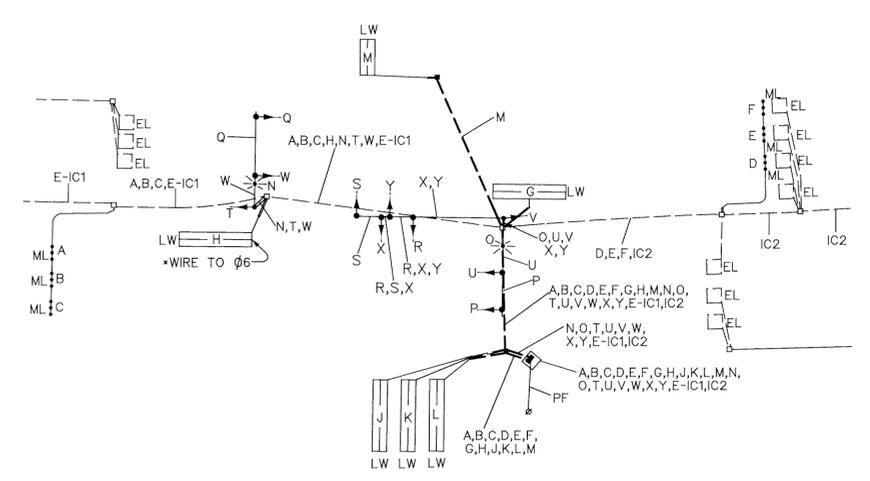
A. APPROVED S.H.A. EQUIPMENT TO BE PURCHASED BY THE DEVELOPER AND INSTALLED BY THE CONTRACTOR. ALL EQUIPMENT IN THIS LIST SHALL HAVE CATALOG CUTS SUBMITTED FOR APPROVAL PRIOR TO INSTALLATION.

QUANTITY	UNIT	SPECIFICATION SECTION	DESCRIPTION
2	EA	813	16" X VAR. D3-2 DUAL FACED SIGN - MAST ARM MOUNT - "← NOLPARK COURT" AND "NOLPARK COURT →"
1	EA	813	24" X 30" R10-6 SIGN - GROUND MOUNT
1	EA	813	36" X 42" R10-12 SIGN - MAST ARM MOUNT
2	EA	813	48" X 48" W3-3 SIGN - GROUND MOUNT
1	EA	813	30" X 36" R 3-5L SIGN - MAST ARM MOUNT
1	EA	813	30" X 36" R 3-5R SIGN - MAST ARM MOUNT
1	EA	813	30" X 36" R 3-6 SIGN - MAST ARM MOUNT
5	EA	814	12", ONE-WAY, THREE-SECTION (R,Y,G) ADJUSTABLE TRAFFIC SIGNAL HEAD WITH PROPER MAST ARM MOUNTING HARDWARE AND TUNNEL VISORS
1	EA	814	12", ONE-WAY, FIVE-SECTION (R,Y,G,YA,GA) ADJUSTABLE TRAFFIC SIGNAL HEAD WITH PROPER MAST ARM MOUNTING HARDWARE AND TUNNEL VISORS
1	EA	814	12"/8", ONE-WAY, FIVE-SECTION (8" - R,Y,G, 12" - YA, GA) ADJUSTABLE TRAFFIC SIGNAL HEAD WITH PROPER MAST ARM MOUNTING HARDWARE AND TUNNEL VISORS
2	EA	814	12", ONE-WAY, FOUR-SECTION (R,Y,G,GA) ADJUSTABLE TRAFFIC SIGNAL HEAD WITH PROPER MAST ARM MOUNTING HARDWARE AND TUNNEL VISORS
1	EA	814	EIGHT PHASE, FULL-TRAFFIC-ACTUATED, SOLID STATE DIGITAL CONTROLLER WITH TELEMETRY MODULE WITH HARNESS, TELEMETRY ISOLATION BOARD, INTERSECTION MONITOR WITH HARNESS BATTERY BACKUP AND RACK MOUNTED LOOP DETECTOR AMPLIFIERS HOUSED IN A BASE MOUNTED CABINET (TO BE USED IN A NEMA FIVE (5) PHASE FULL-TRAFFIC-ACTUATED MODE)
1	EA	814	12", ONE-WAY, THREE-SECTION (R,Y,G) ADJUSTABLE TRAFFIC SIGNAL HEAD WITH PROPER MAST ARM MOUNTING HARDWARE AND TUNNEL VISORS

WIRING NOTES



WIRING DIAGRAM



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MDOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

DRAWN BY: <u>AA</u>	MD 3 (BUS.) @ NOLPARK COURT	COUNTY: ANNE ARUNDEL	LOG MILE * 02B00301.10
DES. BY: <u>J.A.B.</u>			
CHK. BY: _____			
DATE: <u>08-15-95</u>	F.A.P. NO. _____	TS/STD. NO. _____	SHEET NO. _____
SCALE: <u>NONE</u>	S.H.A. NO. <u>BW 845-802-512</u>	<u>3572-GI</u>	2 OF 2