PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF A NEW TRAFFIC SIGNAL AT THE INTERSECTION OF MD4 AT PATUXENT BLVD. WITH INTERCONNECT TO MD 235 IN ST. MARY'S COUNTY.

INTERSECTION OPERATION

THE INTERSECTION IS TO OPERATE IN A NEMA 4 PHASE, FULL-TRAFFIC-ACTUATED MODE. THERE WILL BE AN EXCLUSIVE/PERMISSIVE LEFT TURN PHASE FOR THE NORTHBOUND MOVEMENT OF MD 4. THE MD 4 THROUGH MOVEMENTS WILL OPERATE CONCURRENTLY. THE SIDE STREET WILL OPERATE ALONE.

ALL INTERNAL CABINET WIRING SHALL BE PERFORMED BY THE SHA SIGNAL SHOP.
CONTRACTOR SHALL CONTACT ED RODENHIZER 72 HOURS PRIOR TO CONSTRUCTION.

THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT 410-787-7635 TO ARRANGE FOR THE PHONE DROP INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER WITH THE NEAREST STREET NUMBER, ZIP CODE, AND TELEPHONE NUMBER.

PROJECT CONTACTS:

Ms KIM TRAN, ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 841-1019
JAMES FOLDEN, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
PHONE: (410) 841-1031
JOHN S. MAYS, ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 841-1013
JOE HORTY, UTILITY ENGINEER
PHONE: (410) 841-1040
RICHARD L. DAFF, SR. CHIEF TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630
DEBBIE GARNER STAKING ENGINEER
PHONE: 301-997-1077

THE POWER COMPANY REPRESENTATIVE IS:
SMECO
TRACEY WOOD
23365 HOLLYWOOD RD
LEONARDTOWN, MARYLAND 20650
CELL - 301-788-7615
WR# 80437

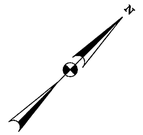
EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.

NONE

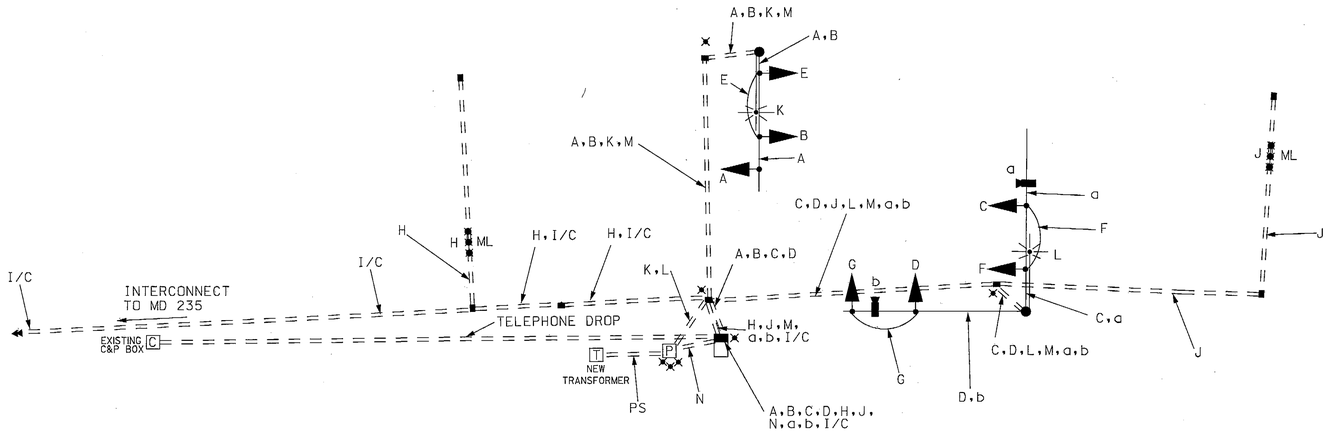
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

QUANTITY	UNITS	DESCRIPTION
LS	LS	MAINTENANCE OF TRAFFIC
LS	LS	MOBILIZATION
1	EA	27 FT. STEEL MAST ARM POLE WITH 50 FT. MAST ARM
1	EA	27 FT. STEEL TWIN MAST ARM POLE WITH TWO 50 FT. MAST ARMS
2	EA	15 FT. LUMINARIES ARM
2	EA	250W HPS LAMP AND LUMINARIES
1	EA	STANDARD S.H.A. TRAFFIC SIGNAL CONTROLLER, BASE MOUNTED NEMA 6 CABINET, VIDEO DETECTION INTERFACE, TELEMETRY INTERFACE EQUIPMENT, AND FOUR-CHANNEL LOOP DETECTOR AMPLIFIERS
2	EA	VIDEO DETECTOR CAMERA
325	LF	VIDEO DETECTOR CAMERA CABLE
2	EA	NON-INVASIVE PROBE (SET OF 3) WITH 500 FT. LEAD-IN CABLE
5	EA	12 IN. 3-SECTION LED SIGNAL HEAD - MAST
1	EA	12 IN. 5-SECTION LED SIGNAL HEAD - MAST
1	EA	8 IN./ 12 IN. 5-SECTION LED SIGNAL HEAD - MAST
1	EA	20 IN. X VAR. D-3(I) DUAL FACED SIGN - MAST ARM
1	EA	24 IN. X 52 IN. MI-5(6) SHIELD ASSEMBLY SIGN - POLE MOUNT
1	EA	36 IN. X 72 IN. MI-5(6) SHIELD ASSEMBLY SIGN - POLE MOUNT
2	EA	48 IN. X 48 IN. W3-3 'NEW' SIGN - GROUND MOUNT
2	EA	84 IN. X 30 IN. D3-2(I) SIGN - GROUND MOUNT
40	LF	4 IN. X 4 IN. WOOD SIGN SUPPORTS
124	LF	4 IN. X 6 IN. WOOD SIGN SUPPORTS
2	CY	TEST PIT EXCAVATION
28	EA	HANDHOLE
325	LF	2-CONDUCTOR TRAY CABLE (NO.12 AWG)
80	LF	5-CONDUCTOR CABLE (NO. 14 AWG)
700	LF	7-CONDUCTOR CABLE (NO. 14 AWG)
4800	LF	12-PAIR TELEMETRY INTERCONNECT CABLE (NO. 19 AWG) - JELLY FILLED
75	LF	1-CONDUCTOR ELECTRICAL CABLE (NO. 4 AWG) FOR ELECTRIC SERVICE
225	LF	BARE COPPER GROUND WIRE (NO. 6 AWG)
540	LF	2 IN. PVC CONDUIT [SCHEDULE 80] - TRENCHED
4400	LF	3 IN. PVC CONDUIT [SCHEDULE 80] - TRENCHED
125	LF	3 IN. PVC CONDUIT [SCHEDULE 80] - PUSHED/BORED
75	LF	4 IN. PVC CONDUIT [SCHEDULE 80] - TRENCHED
150	LF	4 IN. PVC CONDUIT [SCHEDULE 80] - PUSHED/BORED
200	LF	4 IN. PVC CONDUIT [SCHEDULE 80] - SLOTTED IN ROADWAY
7.65	CY	CONCRETE FOUNDATION FOR TRAFFIC SIGNAL EQUIPMENT
7	EA	GROUND ROD - 3/4 IN. X 10 FT. LENGTH
1	EA	CUT, CLEAN, AND CAP MAST ARM
65	LF	24 IN. WHITE THERMOPLASTIC PAVEMENT MARKING - STOP LINE
2	EA	REMOVE AND DISPOSE OF EXISTING CONCRETE FOUNDATION 12 INCHES BELOW GRADE
1	EA	REMOVAL OF EXISTING PAVEMENT MARKINGS (SYMBOL)
1	EA	EMBEDDED ELECTRICAL SERVICE PEDESTAL (100 AMPS)
1	EA	REMOVE EXISTING GROUND MOUNTED SIGN



PHASE CHART

	1	2	3	4	5	6	7	
Phase 1 & 6	◄G-G	◄G-G	G	R	R	R	R	↑ ↓
1 Change	◄Y-G	◄Y-G	G	R	R	R	R	↑ →
Phase 2 & 6	G	G	G	G	G	R	R	←
2 & 6 Change	Y	Y	Y	Y	Y	R	R	→
Phase 4	R	R	R	R	R	G	G	↓
4 Change	R	R	R	R	R	Y	Y	↓
Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	↕ ↔



KEY

- A, B, C, D } 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- E, F, G } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- H, J } MIRCO-LOOP LEAD-IN CABLE
- K, L } 2 CONDUCTOR ELECTRICAL CABLE (NO. 12 AWG) TRAY CABLE
- M } 1 CONDUCTOR (NO. 6 AWG) STRANDED COPPER GROUND WIRE
- N } POWER SERVICE UNDERGROUND 3 WIRE 1 CONDUCTOR (NO. 4 AWG)
- I/C } 12 PAIR INTERCONNECT CABLE - (SEE INTERCONNECT PLANS)
- PS - PROPOSED UNDERGROUND ELECTRICAL SERVICE BY SMECO
- ✕ - PROPOSED GROUND ROD
- ML - MIRCO-LOOP PROBES SET OF (3) THREE
- a, b } VIDEO DETECTION CABLE

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"Merging Innovation and Excellence"®

BY: JStorck

NOTE

THESE PLANS ARE APPROVED FOR CONSTRUCTION FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF APPROVAL. SHOULD CONSTRUCTION NOT BEGIN WITHIN THIS TIME FRAME THESE PLANS SHALL BE NULL AND VOID WITHOUT A RE-REVIEW FROM THE TRAFFIC ENGINEERING DESIGN DIVISION.

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 4 (PATUXENT BEACH RD) AT PATUXENT BLVD

GENERAL INFORMATION PLAN

SCALE N/A DATE NOVEMBER 10, 2010 CONTRACT NO. BW996M82

DESIGNED BY M. A. MEARS
DRAWN BY M. A. MEARS/JES
CHECKED BY
F.A.P. NO. N/A

COUNTY ST. MARY'S
LOGMILE 18000406.83
TIMS NO. I-912
TOD NO.

TS NO. 4672 | DRAWING - OF | SHEET NO. 2 OF 4

PLOTTED: Wednesday, November 10, 2010 AT 03:06 PM
FILE: F:\1999\1999-0717A\Des\gSS-N002_MD4@Patuxent.dgn