BORDER REV: DATE: June 1, 2004

PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of the Traffic Control Signal at the intersection of N. Prince Frederick Blvd. and Stoakley Road. N. Prince Frederick Blvd. is assumed to run in a North-South direction.

II. INTERSECTION OPERATION

The intersection will continue to operate in a NEMA 8-phase, fully-actuated mode, with audible pedestrian phasing being added across the East and North approach legs. Exclusive-permissive left-turn phasing will be added to the N. Prince Frederick Blvd. southbound approach.

III. CONTROLLER REQUIREMENT

Install an APS Central Control Unit in the existing NEMA size "6" base mounted cabinet.

PROJECT CONTACTS

CONTACT PERSONS FOR DISTRICT 5 ARE AS FOLLOWS:

MRS. KIMBERLY TRAN
ASSISTANT DISTRICT ENGINEER
TRAFFIC - 410-842-1003

MR. JAMES FOLDEN
ASSISTANT DISTRICT ENGINEER
CONSTRUCTION - 410-841-1031

MR. ANDRE FUTRELL
ASSISTANT DISTRICT ENGINEER
MAINTENANCE - 410-841-1002

MR. JOHN S. MAYS
DISTRICT UTILITY ENGINEER
410-841-1039

CONTACT FOR OFFICE OF TRAFFIC AND SAFETY:

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF,
TRAFFIC OPERATIONS DIVISION
410-787-7631

MR. ED RODENHIZER
TEAM LEADER - SIGNAL OPERATIONS
410-787-7652

MR. STEPHEN HOLLIE, JR.
PROJECT MANAGER - TRAFFIC ENGINEERING
DESIGN DIVISION - 410-787-4088

EQUIPMENT LIST B

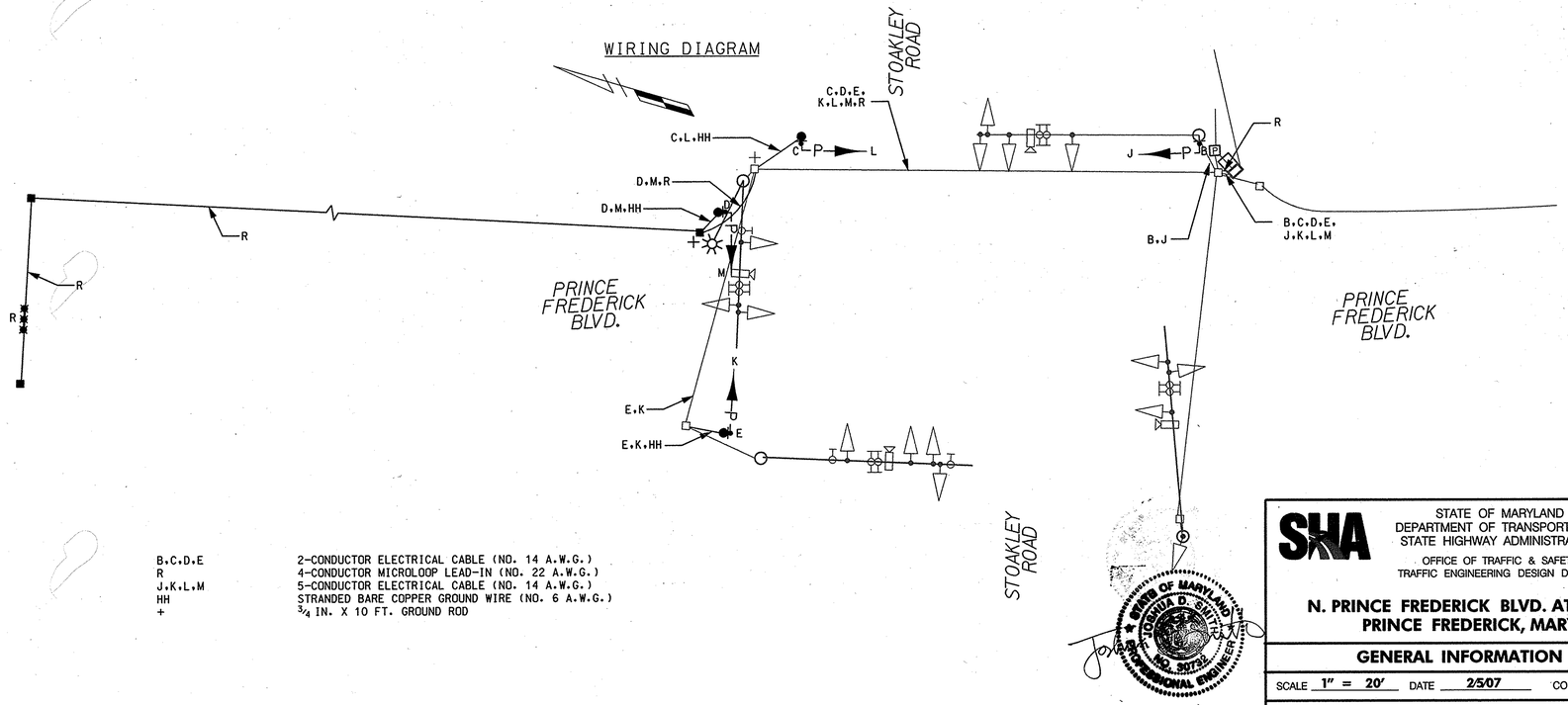
B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY CONTRACTOR.

ITEM	QUANTITY	DESCRIPTION
120500	LS	MAINTENANCE OF TRAFFIC
203030	1 CY	TEST PIT EXCAVATION
801004	3 CY	CONCRETE FOR SIGNAL FOUNDATION
585620	335 LF	12 IN. HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
585624	24 LF	24 IN. HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
800000	1 EACH	16 IN., ONE-WAY, LED COUNTDOWN PEDESTRIAN SIGNAL HEAD WITH ADJUSTABLE BRACKET FOR MAST ARM POLE MOUNTING AND CUTAWAY VISORS.
800000	3 EACH	16 IN., ONE-WAY, LED COUNTDOWN PEDESTRIAN SIGNAL HEAD WITH ADJUSTABLE BRACKET FOR POST TOP MOUNTING AND CUTAWAY VISORS.
800000	2 EACH	AUDIBLE PEDESTRIAN PUSHBUTTON AND R10-4(2) SIGN - "PUSHBUTTON TO CROSS N PR. FREDERICK BLVD.".
800000	2 EACH	AUDIBLE PEDESTRIAN PUSHBUTTON AND R10-4(2) SIGN - "PUSHBUTTON TO CROSS STOAKLEY RD.".
800000	1 EACH	APS CENTRAL CONTROL UNIT
800000	58 SF	DETECTABLE WARNING SURFACE
818004	3 EACH	10 FOOT BREAKAWAY PEDESTAL POLE
800000	1 EACH	ADJUST VIDEO DETECTION ZONE
805125	365 LF	2 IN. SCHEDULE 80 RIGID PVC CONDUIT (TRENCHED)
810601	1 EACH	NONINVASIVE DETECTOR, 500 FOOT LEAD-IN CABLE
811001	4 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
837001	1 EACH	3/4 IN. X 10 FT. GROUND ROD
861105	716 LF	ELECTRICAL CABLE-2 CONDUCTOR (NO. 14 AWG)
861107	726 LF	ELECTRICAL CABLE-5 CONDUCTOR (NO.14 AWG)
802501	42 LF	STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG)

PHASING SEQUENCE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
PHASE 01 & 05	R G	R G	R	R G	R G	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 01 & 05 CHANGE TO PHASE 01+06, PHASE 02+05, OR PHASE 02+06																			
PHASE 02 & 05	R	R	R	G	G	G	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 02 & 05 CHANGE	R	R	R	G	G	G	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 01 & 06	G	G	G	R	R	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 01 & 06 CHANGE	G	G	G	R	R	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 02 & 06	G	G	G	G	G	G	R	R	R	R	R	R	R	R	R	W	W	DW	DW
PED CLEAR	G	G	G	G	G	G	R	R	R	R	R	R	R	R	R	FL/DW	FL/DW	DW	DW
PHASE 02 & 06 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 03 & 07	R	R	R	R	R	R	G	G	R	R	R	G	G	R	R	DW	DW	DW	DW
PHASE 03 & 07 CHANGE TO PHASE 03+08, PHASE 04+07, OR PHASE 04+08																			
PHASE 04 & 07	R	R	R	R	R	R	G	G	G	G	G	R	R	R	R	DW	DW	DW	DW
PHASE 04 & 07 CHANGE	R	R	R	R	R	R	Y	Y	G	G	G	R	R	R	R	DW	DW	DW	DW
PHASE 03 & 08	R	R	R	R	R	R	R	R	R	R	R	G	G	G	G	DW	DW	DW	DW
PHASE 03 & 08 CHANGE	R	R	R	R	R	R	R	R	R	R	R	Y	Y	G	G	DW	DW	DW	DW
PHASE 04 & 08	R	R	R	R	R	R	R	R	G	G	G	R	R	G	G	DW	DW	DW	DW
PHASE 04 & 08 CHANGE	R	R	R	R	R	R	R	R	Y	Y	Y	R	R	Y	Y	DW	DW	DW	DW
PHASE 04 & 08 ALT	R	R	R	R	R	R	R	R	G	G	G	R	R	G	G	DW	DW	W	W
PED CLEAR	R	R	R	R	R	R	R	R	G	G	G	R	R	G	G	DW	DW	FL/DW	FL/DW
PHASE 04 & 08 ALT CHANGE	R	R	R	R	R	R	R	R	Y	Y	Y	R	R	Y	Y	DW	DW	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK

WIRING DIAGRAM



B,C,D,E	2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
R	4-CONDUCTOR MICROLOOP LEAD-IN (NO. 22 A.W.G.)
J,K,L,M	5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
HH	STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
+	3/4 IN. X 10 FT. GROUND ROD

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

N. PRINCE FREDERICK BLVD. AT STOAKLEY RD.
PRINCE FREDERICK, MARYLAND

GENERAL INFORMATION SHEET

SCALE 1" = 20' DATE 2/5/07 CONTRACT NO. BW966M82

DESIGNED BY JDS
DRAWN BY LMM/EAP
CHECKED BY JMC
F.A.P. NO. N/A
COUNTY CALVERT
LOGMILE 04CPR100.75
T.I.M.S. NO. I037
TOD NO.

DRAWING NO. 4556A-GI
SHEET NO. 2 OF 2

STATE OF MARYLAND JOSHUA D. SMITH NO. 30732 PROFESSIONAL ENGINEER

GREENHORNE & O'MARA
CONSULTING ENGINEERS
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FLORIDA GEORGIA MARYLAND NORTH CAROLINA PENNSYLVANIA VIRGINIA WEST VIRGINIA

PLOTTED: 2/5/2007
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BY: eprange