PROJECT DESCRIPTION

GENERAL
This project involves the modification of the existing traffic control signal at MD 193 and Good Luck Road in Prince George's County. For this project, an additional through lane will be added in both the eastbound and westbound directions. MD 193 is assumed to run in an east-west direction.

INTERSECTION OPERATIONS
The advance detectors on eastbound and westbound MD 193 will be replaced due to milling and overlay associated with pavement marking changes. Audible pedestrian pushbuttons and countdown LED pedestrian signals will be installed for the two existing marked crosswalks.

CONTROLLER REQUIREMENTS
Use existing controller.

PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT #3 ARE AS FOLLOWS:

MR. BRIAN YOUNG
ADE TRAFFIC, D3
(301) 513-7404

MR. KEVIN NOWAK
MR. DUANE BERNARD
ADE CONSTRUCTION, D3
(301) 513-7336

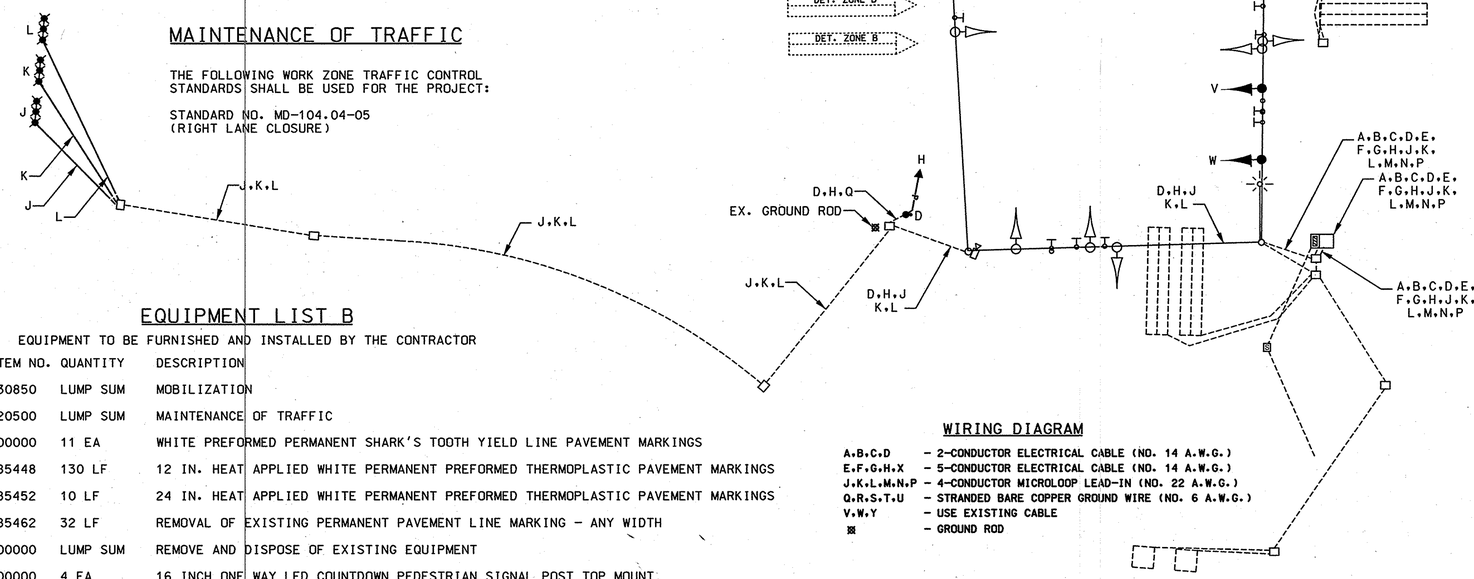
MR. RICHARD DAFF
DIVISION CHIEF, TOD
(410) 787-7630

MR. EDWARD RODENHIZER
CHIEF OF SIGNAL OPERATIONS
(410) 787-7652

MAINTENANCE OF TRAFFIC

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

STANDARD NO. MD-104.04-05
(RIGHT LANE CLOSURE)



EQUIPMENT LIST B

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
130850	LUMP SUM	MOBILIZATION
120500	LUMP SUM	MAINTENANCE OF TRAFFIC
500000	11 EA	WHITE PREFORMED PERMANENT SHARK'S TOOTH YIELD LINE PAVEMENT MARKINGS
585448	130 LF	12 IN. HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
585452	10 LF	24 IN. HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
585462	32 LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKING - ANY WIDTH
800000	LUMP SUM	REMOVE AND DISPOSE OF EXISTING EQUIPMENT
800000	4 EA	16 INCH ONE WAY LED COUNTDOWN PEDESTRIAN SIGNAL POST TOP MOUNT
800000	1 EA	APS CENTRAL CONTROL UNIT
800000	100 SF	DETECTABLE WARNING SURFACE
801004	3 CY	CONCRETE FOR SIGNAL FOUNDATION
801605	12 SF	SHEET ALUMINUM SIGNS 4 EA R10-4(1)Mod (9"x15") PEDESTAL POLE MOUNT 1 EA W9-2(4) (30"x42") MAST ARM MOUNT
802501	60 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
805115	40 LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED
805135	20 LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
805160	200 LF	1 IN. LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
810555	6 EA	MICROLOOP PROBE, 1000-FT LEAD-IN CABLE
811001	2 EA	FURNISH & INSTALL ELECTRICAL HANDHOLE
813015	1 EA	REMOVE ELECTRICAL HANDHOLE
837001	2 EA	GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH

WIRING DIAGRAM

A,B,C,D - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
E,F,G,H,X - 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
J,K,L,M,N,P - 4-CONDUCTOR MICROLOOP LEAD-IN (NO. 22 A.W.G.)
Q,R,S,T,U - STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
V,W,Y - USE EXISTING CABLE
⊠ - GROUND ROD

EQUIPMENT LIST B (CONT.)

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
860265	4 EA	RELOCATE EXISTING SIGNAL HEAD
861105	1207 LF	ELECTRICAL CABLE - 2-CONDUCTOR (NO. 14 AWG)
861107	1207 LF	ELECTRICAL CABLE - 5-CONDUCTOR (NO. 14 AWG)
862102	200 LF	SAW CUT FOR SIGNAL (LOOP DETECTOR)
865001	4 EA	AUDIBLE PEDESTRIAN PUSHBUTTON

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)				
PHASE 1 + 5	~~G~~	~~G~~	~~G~~	R	R	~~G~~	~~G~~	~~G~~	R	R	R	R	R	R	R	R	DW	DW	DW	DW
1 + 5 CHANGE TO 1 + 6, 2 + 5, OR 2 + 6																				
PHASE 1 + 6	~~G~~	~~G~~	~~G~~	G	G	~~R~~	~~R~~	~~R~~	R	R	R	R	R	R	R	R	DW	DW	DW	DW
1 + 6 CHANGE	~~Y~~	~~Y~~	~~Y~~	G	G	~~R~~	~~R~~	~~R~~	R	R	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 2 + 5	~~R~~	~~R~~	~~R~~	R	R	~~G~~	~~G~~	~~G~~	G	G	R	R	R	R	R	R	W	W	DW	DW
PED CLEAR	~~R~~	~~R~~	~~R~~	R	R	~~Y~~	~~Y~~	~~Y~~	G	G	R	R	R	R	R	R	FL/DW	FL/DW	DW	DW
2 + 5 CHANGE	~~R~~	~~R~~	~~R~~	R	R	~~Y~~	~~Y~~	~~Y~~	G	G	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 2 + 6	~~R~~	~~R~~	~~R~~	G	G	~~R~~	~~R~~	~~R~~	G	G	R	R	R	R	R	R	W	W	DW	DW
PED. CLEAR	~~R~~	~~R~~	~~R~~	G	G	~~R~~	~~R~~	~~R~~	G	G	R	R	R	R	R	R	FL/DW	FL/DW	DW	DW
2 + 6 CHANGE	~~R~~	~~R~~	~~R~~	Y	Y	~~R~~	~~R~~	~~R~~	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 3	~~R~~	~~R~~	~~R~~	R	R	~~R~~	~~R~~	~~R~~	R	R	R	R	R	~~G~~ G	~~G~~ G	G	DW	DW	DW	DW
3 CHANGE	~~R~~	~~R~~	~~R~~	R	R	~~R~~	~~R~~	~~R~~	R	R	R	R	R	Y	Y	Y	DW	DW	DW	DW
PHASE 3 ALT	~~R~~	~~R~~	~~R~~	R	R	~~R~~	~~R~~	~~R~~	R	R	R	R	R	~~G~~ G	~~G~~ G	G	DW	DW	W	W
PED. CLEAR	~~R~~	~~R~~	~~R~~	R	R	~~R~~	~~R~~	~~R~~	R	R	R	R	R	~~G~~ G	~~G~~ G	G	DW	DW	FL/DW	FL/DW
3 ALT CHANGE	~~R~~	~~R~~	~~R~~	R	R	~~R~~	~~R~~	~~R~~	R	R	R	R	R	Y	Y	Y	DW	DW	DW	DW
PHASE 4	~~R~~	~~R~~	~~R~~	R	R	~~R~~	~~R~~	~~R~~	R	R	~~G~~ G	~~G~~ G	G	R	R	R	DW	DW	DW	DW
4 CHANGE	~~R~~	~~R~~	~~R~~	R	R	~~R~~	~~R~~	~~R~~	R	R	Y	Y	Y	R	R	R	DW	DW	DW	DW
FLASHING OPERATION	FL/R	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK

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

(General Information Plan)

MD 193 (Greenbelt Road) at Good Luck Road

STATE OF MARYLAND
JOSHUA D. SMITH
NO. 30792
PROFESSIONAL ENGINEER

SCALE N.T.S. DATE 12/04/06 CONTRACT NO. BW 996M82

DESIGNED BY EAP
DRAWN BY EAP
CHECKED BY JDS
F.A.P. NO.

COUNTY PRINCE GEORGE'S
LOGMILE 16.019309.40
T.I.M.S. NO. HI05
TOD NO.

T.S. NO. 93D-GI

SHEET NO. 3 OF 10

PLOTTED: 12/5/2006
FILE: J:\TRANS\6544 - Eastgate\Final CADD for OOTS 12-12-06\pTP-02-MD193@GIL.dgn

BORDER REVD DATE: June 1, 2004