PROJECT DESCRIPTION

GENERAL
THIS PROJECT INVOLVES THE RECONSTRUCTION OF THE TRAFFIC SIGNAL AT THE INTERSECTION OF MD 202 (LANDOVER ROAD) AND KILMER STREET IN PRINCE GEORGE'S COUNTY. IN ADDITION, ACCESSIBLE PUSHBUTTONS AND COUNTDOWN PEDESTRIAN SIGNALS WILL BE INSTALLED FOR THE EAST AND WEST LEG PEDESTRIAN CROSSINGS.

MD 202 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION
THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA SIX PHASE, FULLY-ACTUATED TRAFFIC MODE. THE MAINLINE PEDESTRIAN CROSSINGS (ACROSS KILMER ST.) WILL BE REMOVED. THE SIDE STREET PEDESTRIAN CROSSINGS (ACROSS LANDOVER ROAD) WILL REMAIN.

CONTROLLER REQUIREMENTS
INSTALL A NEW BASE MOUNTED CABINET AND FOUNDATION. THE SHA SIGNAL SHOP WILL INSTALL THE CONTROLLER, ALL ASSOCIATED HARNESSES, ONE (1) 2 WIRE CENTRAL CONTROL UNIT AND ONE (1) VIDEO DETECTION INTERFACE EQUIPMENT WITHIN THE CABINET.

PHONE DROP
THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF THE SHA SIGNAL SHOP AT 410-787-7630 FOR THE PHONE DROP LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE AND PHONE NUMBER.

APS WILL FUNCTION AS FOLLOWS:

FOR LANDOVER ROAD

A. WHEN A PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE "WAIT TO CROSS LANDOVER AT KILMER."

B. WHEN THE "WALK" PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE "WALK" PHASE.

THE CONTACT PERSONS FOR DISTRICT #3 / OOTS ARE AS FOLLOWS:

District #3

Mr. Brian Young
Assistant District Engineer - Traffic
Phone: 301-513-7404

Mr. Augie Rebish
District Utility Engineer
Phone: 301-513-7350

Mr. Wayne Mowdy
Assistant District Engineer - Maintenance
Phone: 301-513-7304

Mr. Kevin Nowak
Assistant District Engineer - Construction
Phone: 301-513-7336

Office Of Traffic & Safety

Mr. Richard L. Daff Sr.
Chief, Traffic Operations Division
Phone: 410-787-7630

Mr. Robert Snyder
Assistant Division Chief, Traffic Operations
410-787-7630

Mr. Edward Rodenhizer
Team Leader Signal Operations
Phone: 410-787-7650

Mr. Eugene Bailey
Team Leader Sign Operations
410-787-7670

The Power Company Representative is:
Potomac Electric Power Company
8300 Old Marlboro Pike
Upper Marlboro, Maryland 20772
Phone: 301-961-5325

EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED BY THE SHA.

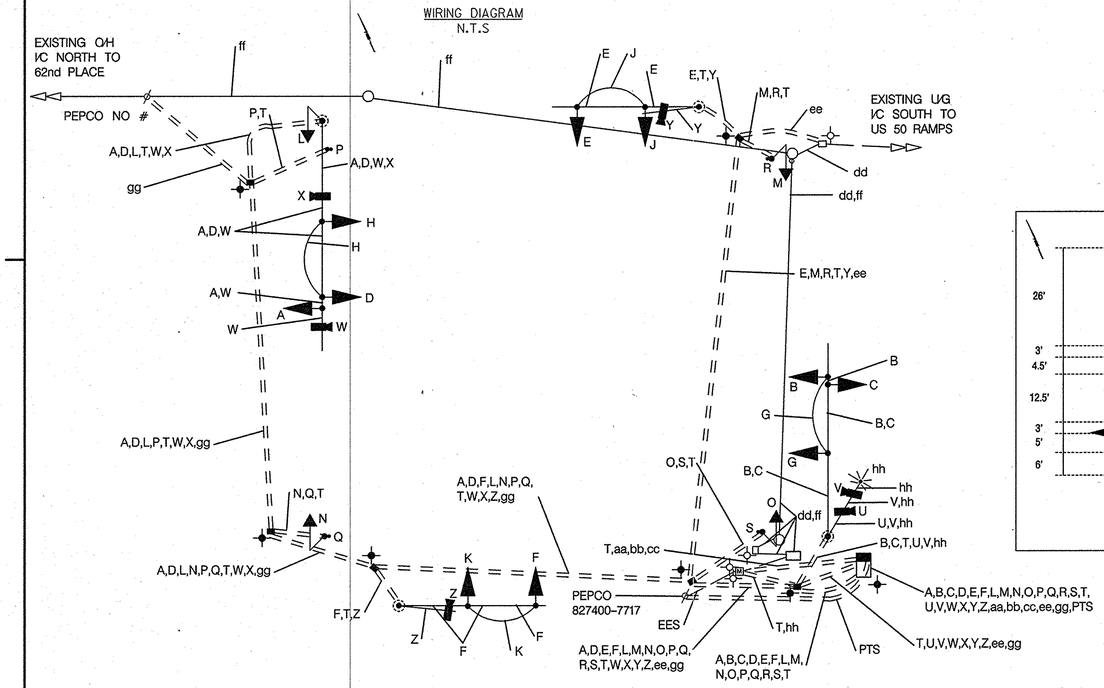
ITEM NO.	QUANTITY	DESCRIPTION
9044	1 EA	[UPDATED] CONTROLLER CABINET, SIZE 6
9087	1 EA	[UPDATED] VIDEO DETECTION INTERFACE EQUIPMENT: 5-8 CAMERAS
9570	72 SF	[UPDATED] SHEET ALUMINUM GROUND MOUNTED SIGN
		1 EA - SHIELD ASSEMBLY (30 IN. x 51 IN.) "NORTH, MD 202, RIGHT ARROW"
		1 EA - SHIELD ASSEMBLY (30 IN. x 51 IN.) "SOUTH, MD 202, RIGHT ARROW"
		1 EA - SHIELD ASSEMBLY (48 IN. x 75 IN.) "SOUTH, MD 202, LEFT ARROW"
		1 EA - SHIELD ASSEMBLY (48 IN. x 75 IN.) "NORTH, MD 202, LEFT ARROW"
9571	62 SF	[UPDATED] SHEET ALUMINUM MAST ARM / POLE MOUNTED SIGNS:
		4 EA - R10-3(I) (9 IN. x 15 IN.) "PUSH BUTTON TO CROSS LANDOVER RD"
		1 EA - R3-6(R) (30 IN. x 36 IN.)
		1 EA - R3-5(L) (30 IN. x 36 IN.)
		2 EA - D-3(2) DUAL FACED (96 IN. x 16 IN.) "LANDOVER RD"
		2 EA - D-3(2) DUAL FACED (96 IN. x 16 IN.) "KILMER ST"

EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NO.	QUANTITY	DESCRIPTION
1003	3 EA	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
2002	5 CY	TEST PIT EXCAVATION
5004	715 LF	12 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
5005	160 LF	24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
5007	795 LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS, ANY WIDTH
6001	350 LF	STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH DEPTH
6002	1050 LF	5 INCH CONCRETE SIDEWALK
6003	80 SF	DETECTABLE WARNING SURFACES FOR CURB RAMPS
8001	1 EA	2 WIRE CENTRAL CONTROL UNIT
8004	2 EA	ADJUST EXISTING HANDHOLE TO GRADE INCLUDING COLLAR
8006	3 EA	ANY SIZE LIGHTING ARM ON SIGNAL POLE WITH 250 WATT HPS LAMP AND LUMINAIRE
8007	4 EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION & SIGNS
8008	4 EA	BREAKAWAY PEDESTAL POLE (ANY SIZE)
8010	2 EA	CONDUIT BEND IN EXISTING FOUNDATION - ANY SIZE
8013	4 EA	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEADS
8015	2 EA	MAST ARM POLE AND 38 FT MAST ARM ANY 'T' DIMENSION
8016	1 EA	MAST ARM POLE AND 60 FT MAST ARM ANY 'T' DIMENSION
8018	1 EA	MAST ARM POLE AND 50 FT MAST ARM ANY 'T' DIMENSION
8021	1 EA	REMOVE AND DISPOSE OF MATERIAL AND EQUIPMENT (PER ASSIGNMENT)
8025	6 EA	VIDEO DETECTION CAMERA AND CABLE UP TO 500 FT.
8030	1200 LF	DISCONNECT, PULL-BACK & REROUTE CABLES
8032	10 LF	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES - BORED
8033	300 LF	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES - SLOTTED
8034	400 LF	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES - TRENCHED
8035	95 LF	WOOD SIGN SUPPORTS 4 INCH X 6 INCH
8036	134 SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
8038	730 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8040	1 EA	WEATHER HEAD, 3 INCH
8043	100 LF	ELECTRICAL CABLE 1-CONDUCTOR NO. 4 AWG-THHN/THWN
8045	6 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8049	30 LF	3 INCH DIAMETER PVC CONDUIT, SCHEDULE 80, RISER
8050	38 EA	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
8054	740 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
8056	870 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
8057	1320 LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
8058	100 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG) TRAY CABLE
8065	1 EA	INSTALL CONTROLLER AND CABINET - BASE MOUNT

WIRING DIAGRAM
N.T.S



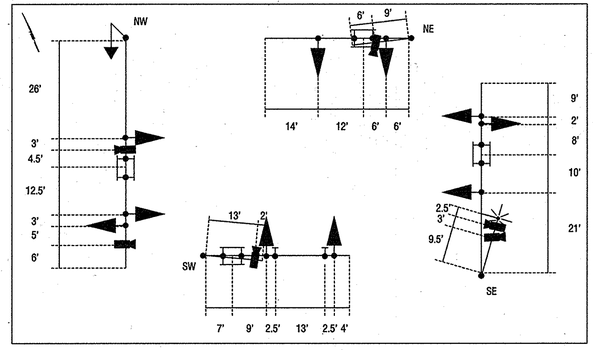
EQUIPMENT LIST 'C'

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

ITEM NO.	QUANTITY	DESCRIPTION

NONE - ALL REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR

PROPOSED SIGNAL POLE EQUIPMENT LAYOUT DETAIL



PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
PHASE 1 & 5	G/R	G/R	R	G/R	G/R	R	R	R	R	R	DW	DW	DW	DW
PHASE 1 & 5 CHANGE	THE CONTROLLER MAY SKIP TO 1 & 6, 2 & 5 OR 2 & 6													
PHASE 1 & 6	R	R	R	G/G	G/G	G	R	R	R	R	DW	DW	DW	DW
PHASE 1 CHANGE	R	R	R	Y/G	Y/G	G	R	R	R	R	DW	DW	DW	DW
PHASE 2 & 5	G/G	G/G	G	R	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 5 CHANGE	Y/G	Y/G	G	R	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 2 & 6	G	G	G	G	G	G	R	R	R	R	DW	DW	DW	DW
PHAE 2 & 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	DW	DW	DW	DW
PHASE 4 & 8	R	R	R	R	R	R	G	G	G	G	DW	DW	DW	DW
PHASE 4 & 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	DW	DW	DW	DW
PHASE 4 & 8 ALT.	R	R	R	R	R	R	G	G	G	G	WK	WK	WK	WK
PED. CLEARANCE	R	R	R	R	R	R	G	G	G	G	FDW	FDW	FDW	FDW
PHASE 4 & 8 ALT. CHANGE	R	R	R	R	R	R	Y	Y	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	DARK	DARK	DARK	DARK

A B C D E F — ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)

G H J K L M N O — ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

P Q R S — ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)

I — NO. 6 STRANDED BARE COPPER GROUND WIRE

U V — CONTROL CABLE - 250 FT. VIDEO DETECTION CAMERA TO CONTROLLER

W X Y Z — CONTROL CABLE - 500 FT. VIDEO DETECTION CAMERA TO CONTROLLER

EES — EXISTING ELECTRICAL SERVICE

aa bb cc — PROPOSED POWER SERVICE FEED, ELECTRICAL CABLE 3-1 CONDUCTOR, NO. 4 AWG

dd — PULL-BACK EXISTING I/C SOUTH TO US 50 RAMPS

ee — RE-ROUTED I/C SOUTH TO US 50 RAMPS

ff — PULL-BACK EXISTING I/C NORTH TO 62nd PLACE

gg — RE-ROUTED I/C NORTH TO 62nd PLACE

hh — ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG), TC

PTS — PROPOSED UNDERGROUND TELEPHONE SERVICE TO BE INSTALLED BY OTHERS

PROPOSED GROUND ROD - 3/4 IN. DIAMETER X 10 FOOT LENGTH

EXISTING GROUND ROD - 3/4 IN. DIAMETER X 10 FOOT LENGTH

TOD NO:XX445-09
SHA NO PG719A55/B55
MD 202@ KILMER ST

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

MD 202 (LANDOVER ROAD) AT KILMER STREET

GENERAL INFORMATION SHEET

SCALE 1" =20' ADVERTISED DATE 9/2008 CONTRACT NO. XX4455185

DESIGNED BY MCG
DRAWN BY AMT
CHECKED BY BAB CJW
F.A.P. NO. SEE TITLE SHEET
COUNTY PRINCE GEORGE'S
LOGMILE 16020212.59
TIMS NO. 1594
TOD NO.

TS NO. 310L-GI | DRAWING SG-02 OF 02 | SHEET NO. 2 OF 2

STV Incorporated
engineers /architects /planners /construction managers
7125 Ambassador Road Baltimore, MD 21244-2722 (410) 944-9112

BY: thompsma

PLOTTED: Monday, September 15, 2008 AT 04:02 PM
FILE: I:\PROJECTS\0312513\0312513_0093\Drawings\TRA\pSG-N000_md202.dgn