DRILL HOLES

BORDER REV: DATE: June 1, 2004

PROJECT DESCRIPTION

GENERAL

THE PROJECT INVOLVES THE INSTALLATION OF OPTICOM PRE-EMPTION FOR THE SOUTHBOUND DIRECTION AT THE INTERSECTION OF MD 214 AND MD 253 IN ANNE ARUNDEL COUNTY. ALL YELLOW FACED VEHICULAR TRAFFIC AND PEDESTRIAN SIGNAL HEADS WILL BE UPGRADED TO BLACK FACED LED. SHIELD ASSEMBLIES WILL BE ADDED FOR EASTBOUND AND WESTBOUND MD 214 AND NORTHBOUND MD 253. MD 214 IS ASSUMED TO RUN IN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION OPERATES IN A NEMA SIX-PHASE, FULL-TRAFFIC-ACTUATED MODE. THERE IS AN EXCLUSIVE/PERMISSIVE LEFT TURN PHASE FOR THE WESTBOUND MOVEMENT OF MD 214. THERE IS AN EXCLUSIVE/PERMISSIVE LEFT TURN PHASE FOR THE NORTH BOUND MOVEMENT OF MD 253. THERE IS AN ALTERNATE PEDESTRIAN PHASE ACROSS THE WEST LEG OF THE INTERSECTION. THIS OPERATION WILL REMAIN AND A SOUTHBOUND PRE-EMPTION PHASE WILL BE ADDDED.

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CONTROLLER, LOOP DETECTOR AMPLIFIERS AND ASSOCIATED INTERFACE SHALL REMAIN. INSTALL A DISCRIMINATOR MODULE, 4 CHANNEL, NO. 764 AND A RETROFIT DETECTOR RACK IN THE EXISTING CABINET.

THE CONTACT PERSONS FOR DISTRICT #5 ARE AS FOLLOWS:

Ms. Kimberly Tran
Assistant District Engineer - Traffic
Phone: 410-841-1003

Mr. John Mays
District Utility Engineer
Phone: 410-841-1005

Mr. Charles George
Assistant District Engineer - Maintenance
Phone: 410-841-1002

Mr. Edward Rodenhizer
Chief, SHA Traffic Signal Shop
Phone: 410-787-7650

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

The Power Company Representative is:
BALTIMORE GAS & ELECTRIC COMPANY
7317 PARKWAY DRIVE SOUTH
HANOVER, MD 21076
Phone: 410-859-9062

EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED BY THE SHA.

ITEM NO.	QUANTITY	DESCRIPTION
9046	1 EA	[UPDATED] DETECTOR RACK RETROFIT
9571	107 SF	[UPDATED] SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGN:
		1 EACH - ASSOCIATED SHIELD ASSEMBLY "WEST, MD 214, LEFT ARROW" (48 IN. X 75 IN.) POLE MOUNT
		1 EACH - ASSOCIATED SHIELD ASSEMBLY "NORTH, MD 253, LEFT ARROW" (48 IN. X 75 IN.) POLE MOUNT
		1 EACH - ASSOCIATED SHIELD ASSEMBLY "EAST, MD 214, LEFT ARROW" (48 IN. X 75 IN.) POLE MOUNT
		1 EACH - ASSOCIATED SHIELD ASSEMBLY "EAST, MD 214, RIGHT ARROW" (30 IN. X 51 IN.) POLE MOUNT
		1 EACH - ASSOCIATED SHIELD ASSEMBLY "NORTH, MD 253, RIGHT ARROW" (30 IN. X 51 IN.) POLE MOUNT
		1 EACH - ASSOCIATED SHIELD ASSEMBLY "WEST, MD 214, RIGHT ARROW" (30 IN. X 51 IN.) POLE MOUNT

EQUIPMENT LIST 'B'

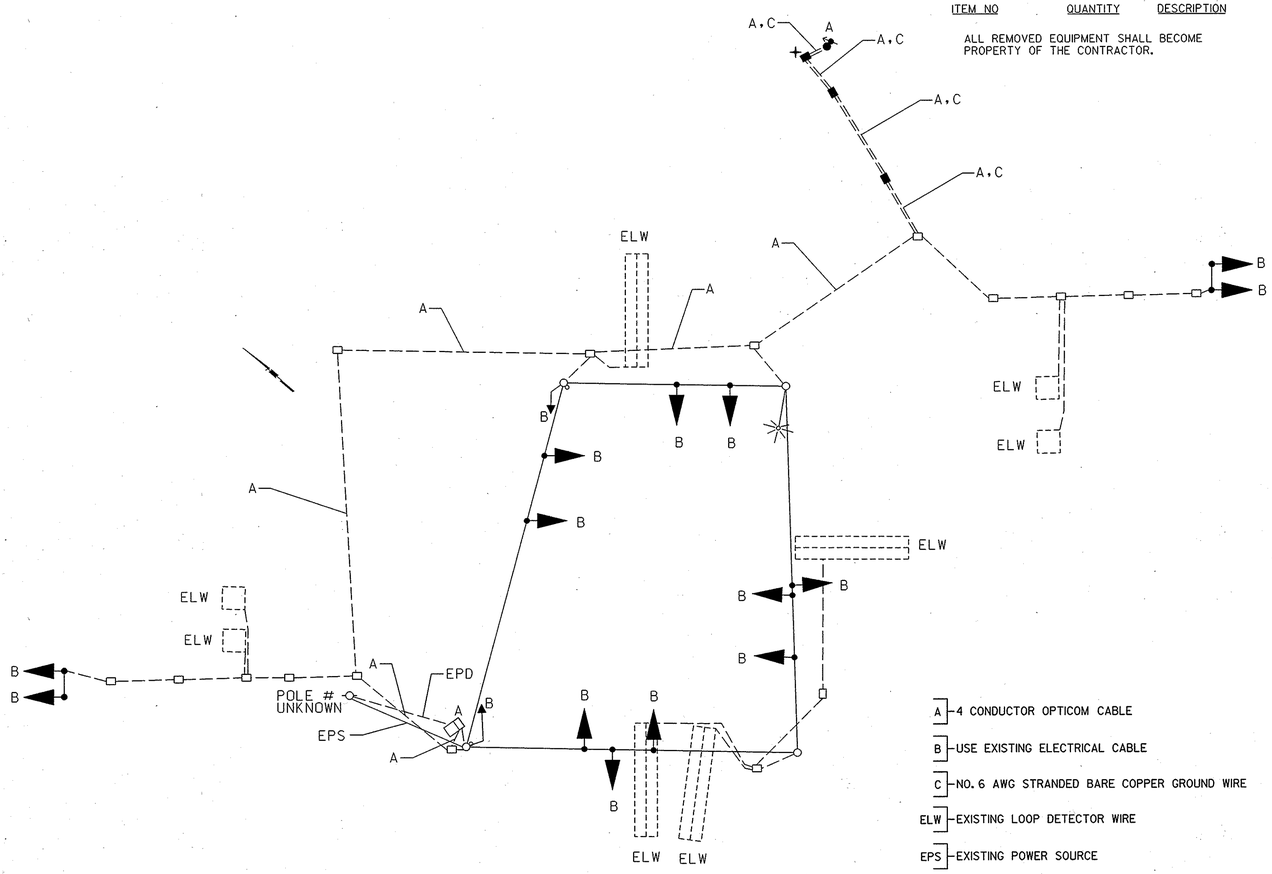
EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NO.	QUANTITY	DESCRIPTION
1001	2 EA	MAINTENANCE OF TRAFFIC
8002	20 EA	12 INCH RED OR GREEN LED SIGNAL HEAD SECTION
8003	16 EA	12 INCH YELLOW LED SIGNAL HEAD SECTION
8005	2 EA	16 INCH LED PEDESTRIAN SIGNAL HEAD
8008	1 EA	3M OPTICOM #764 DISCRIMINATOR MODULE
8009	1 EA	3M OPTICOM EMITTER SYSTEM 700 SERIES, VISIBLE LIGHT FILTER AND HARDWARE
8011	6 EA	8 INCH LED SIGNAL (R,Y,G) HEAD SECTION
8015	1 EA	BREAKAWAY PEDESTAL POLE (ANY SIZE)
8028	1 EA	REMOVE AND DISPOSE OF EQUIPMENT (PER ASSIGNMENT)
8033	760 LF	4 CONDUCTOR OPTICOM DETECTOR CABLE
8040	1 CY	CONCRETE FOR SIGNAL FOUNDATION
8043	440 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8049	400 LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8062	3 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8064	107 SF	INSTALL OVERHEAD SIGN
8066	1 EA	OPTICOM NO. 721 DETECTOR EYE
8070	1 EA	GROUND ROD -3/4 INCH DIAMETER X 10 FOOT LENGTH

EQUIPMENT LIST 'C'

EQUIPMENT TO BE SALVAGED AND RETURNED TO SHA

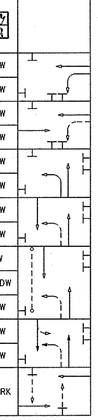
ITEM NO	QUANTITY	DESCRIPTION
		ALL REMOVED EQUIPMENT SHALL BECOME PROPERTY OF THE CONTRACTOR.



A - 4 CONDUCTOR OPTICOM CABLE
B - USE EXISTING ELECTRICAL CABLE
C - NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
ELW - EXISTING LOOP DETECTOR WIRE
EPS - EXISTING POWER SOURCE
OPTICOM NO. 721 DETECTOR EYE
3/4 IN. x 10 FT. GROUND ROD
EPD - EXISTING PHONE DROP

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12
PHASE 2 AND 5	R	R	G/G	G/G	G	R	R	R	R	R	DW	DW
PHASE 5 CHANGE	R	R	Y/G	Y/G	G	R	R	R	R	R	DW	DW
PHASE 2 AND 6	G	G	G	G	G	R	R	R	R	R	DW	DW
PHASE 2 AND 6 CHANGE	Y	Y	Y	Y	Y	R	R	R	R	R	DW	DW
PHASE 3 AND 8	R	R	R	R	R	G/G	G/G	G	R	R	DW	DW
PHASE 3 CHANGE	R	R	R	R	R	Y/G	Y/G	G	R	R	DW	DW
PHASE 4 AND 8	R	R	R	R	R	G	G	G	G	G	DW	DW
PHASE 4 AND 8 CHANGE	R	R	R	R	R	Y	Y	Y	Y	Y	DW	DW
PHASE 4 AND 8 ALT	R	R	R	R	R	G	G	G	G	G	W	W
PED CLEARANCE	R	R	R	R	R	G	G	G	G	G	F/DW	F/DW
PHASE 4 AND 8 ALT CHANGE	R	R	R	R	R	Y	Y	Y	Y	Y	DW	DW
PRE-EMPT PHASE 4 + 8	R	R	R	R	R	G	G	G	G	G	DW	DW
PRE-EMPT PHASE 4 + 8 CHANGE	R	R	R	R	R	Y	Y	Y	Y	Y	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK



TOD No: AT782-14
SHA: AA445A51/B51

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

MD 214 (CENTRAL AVENUE) AND MD 253 (MAYO ROAD) / ENTRANCE TO CENTRAL SCHOOL COMPLEX

GENERAL INFORMATION SHEET

SCALE 1"=20' DATE 10/2005 CONTRACT NO. AT7825185

DESIGNED BY MWR
DRAWN BY MWR
CHECKED BY BAB
F.A.P. NO. N/A
COUNTY ANNE ARUNDEL
LOGMILE 02021406.63
T.I.M.S. NO. G931
TOD NO.

DRAWING NO. TS-1522F
SHEET NO. 2 OF 2

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

BY: SHARPSB

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