PROJECT DESCRIPTION

I. GENERAL:

THIS PROJECT INVOLVES CONVERTING THE EXISTING PEDESTRIAN SIGNALS TO COUNTDOWN PEDESTRIAN SIGNAL HEADS AND AUDIBLE PEDESTRIAN PUSHBUTTON SYSTEMS. UPDATING TRAFFIC SIGNAL HEADS TO LEDS. AND UPDATING SIGNAL DETECTION WITH VIDEO DETECTION CAMERAS FOR THE EXISTING TRAFFIC SIGNAL AT MD 12 (SNOW HILL ROAD) AND COLLEGE AVENUE/BEAGLIN PARK DRIVE IN SALISBURY. WICOMICO COUNTY. MARYLAND.

MD 12 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

II. INTERSECTION OPERATION:

THE INTERSECTION OPERATES IN NEMA EIGHT PHASES. FULL TRAFFIC ACTUATED MODE. THE MD 12 (SNOW HILL ROAD) APPROACHES SHALL OPERATE CONCURRENTLY AS WILL THE COLLEGE AVENUE AND BEAGLIN PARK DRIVE APPROACHES. MD 12 AND COLLEGE AVENUE AND BEAGLIN PARK DRIVE LEFT TURN PHASES SHALL BE EXCLUSIVE PERMISSIVE. AUDIBLE PEDESTRIAN PUSHBUTTON WITH COUNTDOWN PEDESTRIAN SIGNAL ARE PROVIDE FOR EAST AND SOUTH LEGS OF THE INTERSECTION.

THE EXISTING FULL TRAFFIC ACTUATED EIGHT PHASE TRAFFIC SIGNAL CONTROLLER HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET WILL BE UTILIZED.

III. SPECIAL NOTES:

1. APS WILL FUNCTION AS FOLLOWS:

   FOR MD 12 (SNOW HILL ROAD)
   - A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME. THE PUSHBUTTON UNIT WILL BE "WAIT TO CROSS SNOW HILL AT COLLEGE AND BEAGLIN PARK."
   - B. WHEN WALK PHASE BEGINS. THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

   FOR BEAGLIN PARK DRIVE
   - A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME. THE PUSHBUTTON UNIT WILL BE "WAIT TO CROSS BEAGLIN PARK AT SNOW HILL CROSSWALK ANGLES LEFT."
   - B. WHEN WALK PHASE BEGINS. THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

2. THE CONTRACTOR SHALL PURCHASE AND DELIVER THE "APS" CENTRAL CONTROL UNIT FOR THE CONTROLLER TO THE SHA SIGNAL SHOP AT 7491 CONNELLEY DRIVE. HANOVER. MARYLAND. 21076. MR. EDWARD RODENHIZER AT 410 787-7652 SHALL BE CONTACTED AT LEAST THREE DAYS PRIOR TO DELIVERY.

PROJECT CONTACTS

THE CONTACT PERSONS FOR THE SHA ARE AS FOLLOWS:

MR. GENE COFIELL
ASSISTANT DIVISION ENGINEER
TRAFFIC
PHONE: 410-677-4040

JAMES WRIGHT
ASSISTANT DISTRICT ENGINEER
MAINTENANCE
PHONE: 410-677-4010

BRUCE POOLE
DISTRICT UTILITIES ENGINEER
PHONE: 410-677-4082

DON SCHAEFER
DISTRICT CONSTRUCTION ENGINEER
PHONE: 410-677-4020

ROBERT SNYDER
ASSISTANT DIVISION CHIEF
TRAFFIC OPERATIONS DIVISION
PHONE: 410-787-7631

EDWARD RODENHIZER
CHIEF. SIGNAL OPERATIONS SECTION
PHONE: 410-787-7652

EQUIPMENT LIST "C"

ALL EQUIPMENT AND OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY SHA AND INSTALLED BY THE CONTRACTOR.

ITEM NO.	QUANTITY	DESCRIPTION
9042	1 EA	CONTROLLER ASC II WITH TELEMETRY
9044	1 EA	NEMA 6 CONTROLLER CABINET
9086	1 EA	VIDEO DETECTOR INTERFACE EQUIPMENT: 1-4 CAMERAS
9571	4 SF	SHEET ALUMINIUM MAST ARM/POLE MOUNTED SIGNS
	2 EA	R10-4(1) COUNTDOWN PEDESTRIAN PUSHBUTTON SIGN "TO CROSS SNOW HILL ROAD" (9"x 15")
	2 EA	R10-4(1) COUNTDOWN PEDESTRIAN PUSHBUTTON SIGN "TO CROSS BEAGLIN PARK DRIVE" (9"x 15")

EQUIPMENT LIST "B"

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

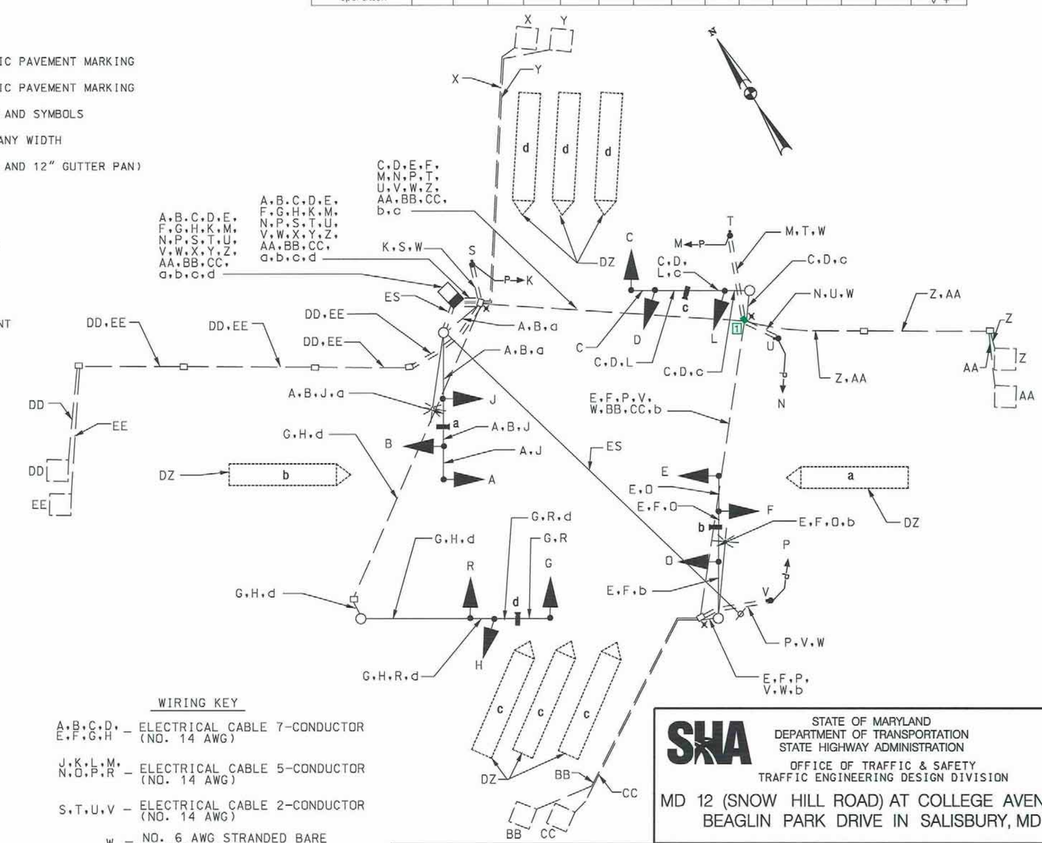
ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
2002	2 CY	TEST PIT EXCAVATION
[1] 5003	~~250~~ 280 LF	12" HEAT APPLIED WHITE PERMANENT PERFORMED THERMOPLASTIC PAVEMENT MARKING
5004	70 LF	24" HEAT APPLIED WHITE PERMANENT PERFORMED THERMOPLASTIC PAVEMENT MARKING
5005	11 SF	WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LEGENDS AND SYMBOLS
5006	380 LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKING - ANY WIDTH
[1] 6001	~~28~~ 2 LF	STANDARD TYPE 'A' COMBINATION CURB AND GUTTER (8" CURB AND 12" GUTTER PAN)
[1] 6002	~~850~~ 620 SF	5" CONCRETE SIDEWALK
8001	52 EA	12" LED SIGNAL HEAD SECTION
8007	4 EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGN
8008	4 EA	BREAKAWAY PEDESTAL POLE - ANY SIZE
8011	4 EA	LED 16" COUNTDOWN PEDESTRIAN SIGNAL HEAD
[1] 8013	1 EA	REBUILD HANDHOLE - NEW FRAME & COVER
8014	1 EA	REMOVE AND DISPOSE OF EXISTING EQUIPMENT- PER ASSIGNMENT
8020	60 LF	UP TO 4" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8021	50 SF	DETECTABLE WARNING SURFACES
8027	580 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8030	4 SF	INSTALL OVERHEAD SIGN
8033	4 EA	VIDEO DETECTION CAMERA AND CABLE UP TO 500 FT
8037	700 LF	ELECTRICAL CABLE - 2 CONDUCTOR NO 14 AWG
8039	800 LF	ELECTRICAL CABLE - 5 CONDUCTOR NO 14 AWG
8040	2000 LF	ELECTRICAL CABLE - 7 CONDUCTOR NO 14 AWG
8044	1 EA	INSTALL CONTROLLER AND CABINET - BASE MOUNTED

GREENLINE REVISION

[1] /08

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13,14	15,16
Phase 1 & 5	◁G-R	◁G-R	R	◁G-R	◁G-R	R	R	R	R	R	R	R	DW	DW
1 & 5 Change	THE CONTROLLER MAY SKIP TO PHASES 1 & 6 OR 2 & 5 OR 2 & 6											R	DW	DW
Phase 1 & 6	◁G-G	◁G-G	G	R	R	R	R	R	R	R	R	R	DW	DW
1 Change	◁Y-G	◁Y-G	G	R	R	R	R	R	R	R	R	R	DW	DW
Phase 2 & 5	R	R	R	◁G-G	◁G-G	G	R	R	R	R	R	R	WK	DW
5 Change	R	R	R	◁Y-G	◁Y-G	G	R	R	R	R	R	R	WK	DW
Phase 2 & 6	G	G	G	G	G	G	R	R	R	R	R	R	WK	WK
Ped. Clear and Countdown	G	G	G	G	G	G	R	R	R	R	R	R	FL/DW	FL/DW
2 & 6 Change	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	DW	DW
Phase 3 & 7	R	R	R	R	R	R	◁G-R	◁G-R	R	◁G-R	◁G-R	R	DW	DW
3 & 7 Change	THE CONTROLLER MAY SKIP TO PHASES 3 & 8 OR 4 & 7 OR 4 & 8												DW	DW
Phase 3 & 8	R	R	R	R	R	R	R	R	R	◁G-G	◁G-G	G	DW	DW
3 & 8 Change	R	R	R	R	R	R	R	R	R	◁Y-G	◁Y-G	G	DW	DW
Phase 4 & 7	R	R	R	R	R	R	◁G-G	◁G-G	G	R	R	R	DW	DW
4 & 7 Change	R	R	R	R	R	R	◁Y-G	◁Y-G	G	R	R	R	DW	DW
Phase 4 & 8	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW
4 & 8 Change	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW
4 & 8 Alt.	R	R	R	R	R	R	G	G	G	G	G	G	DW	WK
Ped. Clear and Countdown	R	R	R	R	R	R	G	G	G	G	G	G	DW	FL/DW
4 & 8 Alt. Change	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	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	DARK	DARK



WIRING KEY

- A,B,C,D, E,F,G,H – ELECTRICAL CABLE 7-CONDUCTOR (NO. 14 AWG)
- J,K,L,M, N,O,P,R – ELECTRICAL CABLE 5-CONDUCTOR (NO. 14 AWG)
- S,T,U,V – ELECTRICAL CABLE 2-CONDUCTOR (NO. 14 AWG)
- W – NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
- X,Y,Z,AA, BB,CC,DD, EE – EXISTING 6' X 6' LOOP LEAD-IN
- a,b,c,d – VIDEO DETECTOR WIRING
- DZ – CAMERA DETECTOR ZONE
- ES – EXISTING SERVICE
- x – PROPOSED GROUND ROD
- ✱✱✱ – MICROLOOP PROBES

CENTURY ENGINEERING
CONSULTING ENGINEERS – PLANNERS
10710 GILROY ROAD
HUNT VALLEY, MD 21031

REVISION 'E' 25003.93

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

MD 12 (SNOW HILL ROAD) AT COLLEGE AVENUE / BEAGLIN PARK DRIVE IN SALISBURY, MD

GENERAL INFORMATION SHEET

SCALE NONE DATE 3/2008 CONTRACT NO. XX3405185 [1]

DESIGNED BY ENB
DRAWN BY ENB
CHECKED BY
F.A.P. NO.
COUNTY WICOMICO
LOGMILE 22001205.88
T.I.M.S. NO. J 036
TOD NO.

DRAWING NO. TS-1320D-GI SG-2 OF 2 | SHEET NO. 2 OF 2

PLOTTED: TUESDAY, JANUARY 13, 2009 AT 08:30 AM
FILE: J:\DATA\J036\GREENLINE PLANS 11\7.09\MSG-P0002_MD12@COLLEGE GL.DGN

BY: BDONOWAY