PROJECT DESCRIPTION

I. GENERAL:

THIS PROJECT INVOLVES PROVIDING AUDIBLE PEDESTRIAN MOVEMENTS AND COUNTDOWN PEDESTRIAN HEADS AT THE EXISTING INTERSECTION OF MD 176 (DORSEY ROAD) AND CONNELLEY DRIVE / A.R.F.F. ENTRANCE IN HANOVER, ANNE ARUNDEL COUNTY. THE EXISTING SIGNAL EQUIPMENT, SHIELD ASSEMBLY SIGNS STREET LIGHTING SHALL REMAIN AND THE EXISTING BASE- MOUNTED CABINET SHALL BE UTILIZED.

MD 176 IS ASSUMED TO RUN IN AN EAST- WEST DIRECTION.

II. INTERSECTION OPERATION:

THE INTERSECTION OPERATES A NEMA SIX- PHASE, FULL-ACTUATED MODE. MD 176 THROUGH MOVEMENTS OPERATE CONCURRENTLY, WITH AN EXCLUSIVE/PERMISSIVE LEFT TURN FOR BOTH APPROACHES. CONNELLEY DRIVE AND THE ENTRANCE MOVEMENTS OPERATE CONCURRENTLY. THE A.R.F.F. ENTRANCE HAS A LEFT TURN GREEN ARROW AND OPTICOM EYE, FOR PRE-EMPTION. NAVIGATOR AUDIBLE PEDESTRIAN PUSHBUTTON MOVEMENTS TO CROSS THE SOUTH LEG OF INTERSECTION (CONNELLEY DR.) AND THE EAST LEG OF MD 176.

III. SPECIAL NOTES:

A NEMA SIX-PHASE, FULL-ACTUATED CONTROLLER WITH ALL NECESSARY EQUIPMENT HOUSED IN A BASE-MOUNTED CABINET AT THE INTERSECTION SHALL BE MODIFIED.

THE CONTRACTOR SHALL PURCHASE AND DELIVER THE 2-WIRE CENTRAL CONTROL UNIT FOR THE CONTROLLER TO SHA SIGNAL SHOP, AT 7491 CONNELLEY ROAD, HANOVER, MD, 21076. MR. EDWARD RODENHIZER AT 410-787-7652 SHALL AT CONTACTED AT LEAST 3 DAYS PRIOR TO THE DELIVERY.

PROJECT CONTACTS

THE CONTACT PERSONS FOR THE SHA ARE AS FOLLOWS:

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

MR. ANDRE FUTRELL
ASSISTANT DISTRICT ENGINEER-MAINTENANCE
PHONE: 410-841-1013

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

MR. JAMES FOLDEN
DISTRICT CONSTRUCTION ENGINEER
PHONE: 410-841-1031

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

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

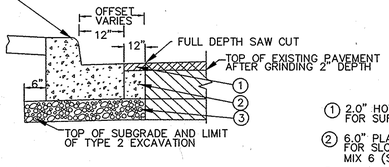
KEVIN PERMISOHN
PROJECT MANGER -
TRAFFIC ENGINEERING
DESIGN DIVISION
PHONE: 410-787-4043

EQUIPMENT LIST "C"

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

STANDARD TYPE "A" COMBINATION CURB AND GUTTER CONSTRUCTION DETAIL

STANDARD TYPE "A" COMBINATION CURB AND GUTTER
8" DEPTH, 12" PAN (MD 620.02)
(COST OF AGGREGATE PLACED UNDER CURB & GUTTER SHALL BE INCIDENTAL TO THE PRICE FOR CURB & GUTTER



NOT TO SCALE

① 2.0" HOT MIX ASPHALT SUPERPAVE 12.5mm FOR SURFACE PG 64-22, LEVEL 2

② 6.0" PLAIN PORTLAND CEMENT CONCRETE FOR SLOT BACKFILL 1 FT. WIDE MODIFIED MIX 6 (SEE PAVING DETAIL NOTE 2)

③ 6.0" CRUSHER RUN AGGREGATE CR-6

EQUIPMENT LIST "A"

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

ITEM NO.	QUANTITY	DESCRIPTION
9570	22.5	SHEET ALUMINIUM SIGNS GROUND MOUNTED
		2 EA OM-1(1) OJECT MARKER (12"x 12")
		2 EA W11-2 "PEDESTRIAN CROSSING" (36"x 36")
		2 EA W16-7 "ARROW" (15"x 12") 1-LEFT/1-RIGHT
9571	3.75 SF	SHEET ALUMINIUM SIGNS MAST ARM/POLE MOUNTED
		2 EA R10-3(1) COUNTDOWN PEDESTRIAN PUSHBUTTON SIGN "TO CROSS DORSEY ROAD" (9"x 15")
		2 EA R10-3(1) COUNTDOWN PEDESTRIAN PUSHBUTTON SIGN "TO CROSS CONNELLEY DRIVE" (9"x 15")

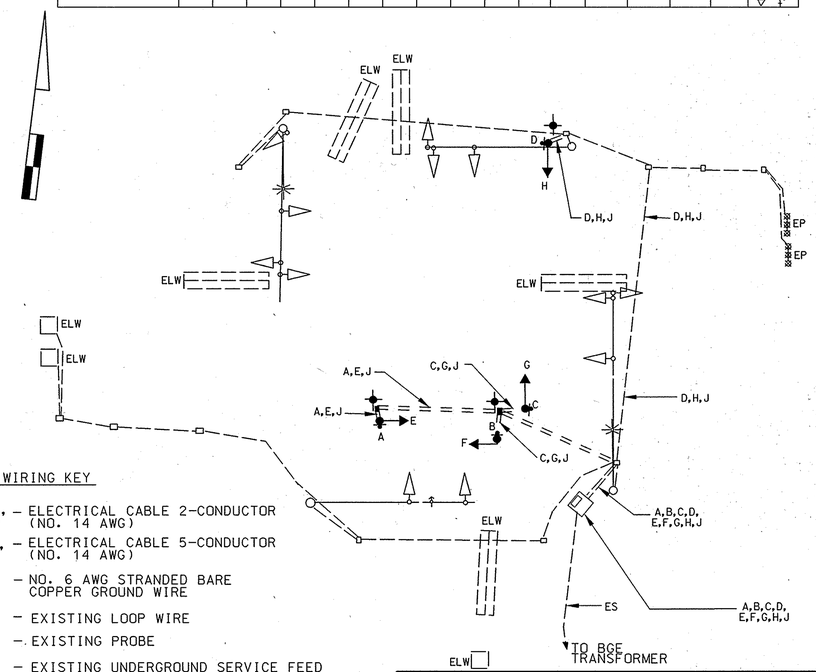
EQUIPMENT LIST "B"

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

ITEM NO.	QUANTITY	DESCRIPTION
1001	2 EA	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
2002	2 CY	TEST PIT EXCAVATION
5001	200 LF	5" WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
5002	200 LF	5" YELLOW LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
5003	375 LF	12" WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
5004	125 LF	24" WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
5005	500 LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKING - ANY WIDTH
6001	255.5 LF	STANDARD TYPE 'A' COMBINATION CURB AND GUTTER 12" GUTTER PAN/8" DEPTH
6002	1152 SF	4" CONCRETE SIDEWALK
8003	1 EA	2 WIRE CENTRAL CONTROL UNIT
8010	4 EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGN
8011	4 EA	BREAKAWAY PEDESTAL POLE - ANY SIZE
8014	4 EA	LED 16" COUNTDOWN PEDESTRIAN SIGNAL HEAD
8017	1 EA	REMOVE AND DISPOSE OF EXISTING EQUIPMENT- PER ASSIGNMENT
8025	70 LF	UP TO 4" SCHEDULE 80 RIDIG PVC CONDUIT - SLOTTED
8026	90 LF	UP TO 4" SCHEDULE 80 RIDIG PVC CONDUIT - TRENCHED
8027	32 SF	DETECTABLE WARNING SURFACE
8030	4 CY	CONCRETE FOR SIGNAL FOUNDATION
8031	44 LF	WOOD SIGN SUPPORTS 4" x 4"
8033	260 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8044	2 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8045	22.5 SF	INSTALL GROUND MOUNTED SIGN
8046	3.75 SF	INSTALL OVERHEAD MOUNTED SIGN
8052	3 EA	GROUND ROD - 3/4 " DIAMETER x 10' LENGTH
8058	520 LF	ELECTRICAL CABLE - 2 CONDUCTOR NO 14 AWG
8060	535 LF	ELECTRICAL CABLE - 5 CONDUCTOR NO 14 AWG
NEG	325 LF	10" WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
2001	34 CY	CLASS 2 EXCAVATION

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Phase 1 + 5	R	R G	R G	R	R G	R G	R	R	R	R	R	R	DW	DW	DW	DW
1 & 5 Change	THE CONTROLLER MAY SKIP TO PHASES 1 + 6 OR 2 + 5 OR 2 + 6												DW	DW	DW	DW
Phase 1 + 6	G	G G	G G	G	R	R	R	R	R	R	R	R	DW	DW	DW	DW
1 + 6 Change	G	G Y	G Y	G	R	R	R	R	R	R	R	R	DW	DW	DW	DW
Phase 2 + 5	R	R	R	R	G G	G G	G	R	R	R	R	R	DW	DW	DW	DW
2 + 5 Change	R	R	R	R	G Y	G Y	G	R	R	R	R	R	DW	DW	DW	DW
Phase 2 + 6	G	G	G	G	G	G	G	R	R	R	R	R	WK	WK	DW	DW
Ped Clearance	G	G	G	G	G	G	G	R	R	R	R	R	FL/WK	FL/WK	DW	DW
2 + 6 Change	Y	Y	Y	Y	Y	Y	Y	R	R	R	R	R	DW	DW	DW	DW
Phase 4 + 8	R	R	R	R	R	R	R	G	G	G	G	G	DW	DW	DW	DW
4 + 8 Change	R	R	R	R	R	R	R	Y	Y	Y	Y	Y	DW	DW	DW	DW
Phase 4 + 8 Alt	R	R	R	R	R	R	R	G	G	G	G	G	DW	DW	WK	WK
Ped Clearance	R	R	R	R	R	R	R	G	G	G	G	G	DW	DW	FL/WK	FL/WK
4 + 8 Alt Change	R	R	R	R	R	R	R	Y	Y	Y	Y	Y	DW	DW	DW	DW
Pre-emption	R	R	R	R	R	R	R	R	R	G G	G G	G	DW	DW	DW	DW
PRE-EMP Clearance	R	R	R	R	R	R	R	R	R	Y	Y	Y	DW	DW.	DW	DW
Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK



WIRING KEY

A,B, C,D - ELECTRICAL CABLE 2-CONDUCTOR (NO. 14 AWG)

E,F, G,H - ELECTRICAL CABLE 5-CONDUCTOR (NO. 14 AWG)

J - NO. 6 AWG STRANDED BARE COPPER GROUND WIRE

ELW - EXISTING LOOP WIRE

EP - EXISTING PROBE

ES - EXISTING UNDERGROUND SERVICE FEED

✦ - GROUND ROD 3/4" DIA x 10' LENGTH

NOTE:
THE EXISTING SIGNAL CABLES NOT IDENTIFIED SHALL BE MAINTAINED.

TOD NO: AT936-08
SHA No: AA522A53/C53
MD 176 @ Connelley Drive

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

REVISION 'C' 25003.45

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

MD 176 (DORSEY ROAD) &
CONNELLEY DRIVE/A.R.F.F. RD.
IN HANOVER, MARYLAND

GENERAL INFORMATION SHEET

SCALE NONE	DATE 3-13-07	CONTRACT NO. AT9365185	
DESIGNED BY EMM		COUNTY ANNE ARUNDEL	
DRAWN BY EMM		LOGMILE 02017602.87	
CHECKED BY TMH		TIMS NO. H826	
FAP NO.		TOD NO.	
TS NO. 2506 C	DRAWING - 2 OF 2	SHEET NO. N/A OF	

PLOTTED: Thursday, March 15, 2007 AT 04:37 PM
FILE: O:\TRANSDWG\25003\25003.45 MD 176 @ CONNELLEY DR\mSG-P002_MD176&Connelley Dr.dgn

BY: emilesky