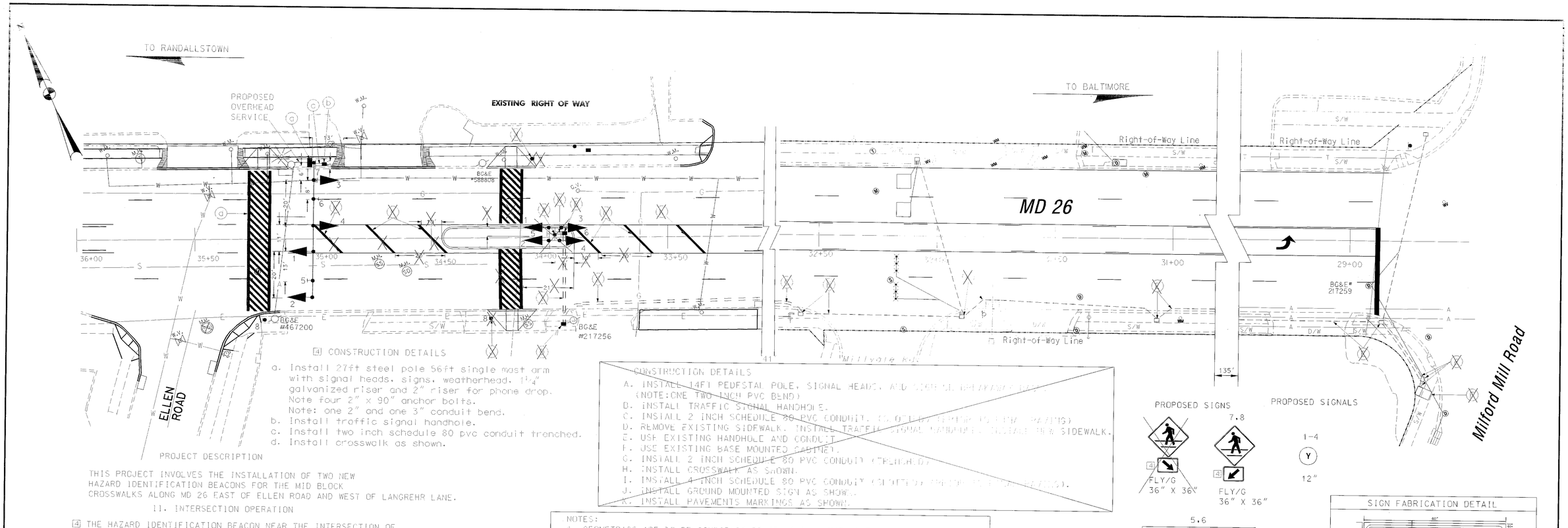


[4] CONSTRUCTION DETAILS

a. Install 27ft steel pole 56ft single mast arm with signal heads, signs, weatherhead, 1¼" galvanized riser and 2" riser for phone drop. Note four 2" x 90" anchor bolts.
Note: one 2" and one 3" conduit bend.
b. Install traffic signal handhole.
c. Install two inch schedule 80 pvc conduit trenched.
d. Install crosswalk as shown.

CONSTRUCTION DETAILS

A. INSTALL 14FT PEDESTAL POLE, SIGNAL HEADS, AND [illegible] (NOTE:ONE TWO INCH PVC BEND)
B. INSTALL TRAFFIC SIGNAL HANDHOLE.
C. INSTALL 2 INCH SCHEDULE 80 PVC CONDUIT. [illegible]
D. REMOVE EXISTING SIDEWALK. INSTALL TRAFFIC SIGNAL HANDHOLE. [illegible] SIDEWALK.
E. USE EXISTING HANDHOLE AND CONDUIT.
F. USE EXISTING BASE MOUNTED CABINET.
G. INSTALL 2 INCH SCHEDULE 80 PVC CONDUIT (TRENCHED)
H. INSTALL CROSSWALK AS SHOWN.
I. INSTALL 4 INCH SCHEDULE 80 PVC CONDUIT [illegible]
J. INSTALL GROUND MOUNTED SIGN AS SHOWN.
K. INSTALL PAVEMENTS MARKINGS AS SHOWN.

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE INSTALLATION OF TWO NEW HAZARD IDENTIFICATION BEACONS FOR THE MID BLOCK CROSSWALKS ALONG MD 26 EAST OF ELLEN ROAD AND WEST OF LANGREHR LANE.

II. INTERSECTION OPERATION

[4] THE HAZARD IDENTIFICATION BEACON NEAR THE INTERSECTION OF MD 26 AND ELLEN ROAD WILL HAVE AN ALTERNATING FLASH.

THE HAZARD IDENTIFICATION BEACON NEAR THE INTERSECTION OF MD 26 AND LANGREIR ROAD SHALL BE WIRED TO THE CONTROLLER AT THE INTERSECTION OF MD 26 AND ROLLING ROAD.

EQUIPMENT LIST

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

	CATEGORY CODE	QUANTITY	UNIT	DESCRIPTION
[4]	9005	~~72~~ 79	SF	SHEET ALUMINUM SIGN
[4][3]	9000	1	EA	27FT STEEL MAST ARM POLE WITH 56 FT MAST ARM. (NOTE FOUR 2" x 90" ANCHOR BOLTS).
[4]	9000	1	EA	POLE MOUNTED CABINET AND CONTROLLER

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

	CATEGORY CODE	QUANTITY	UNIT	DESCRIPTION
[3]	585409	260	LF	5 IN. WIDE YELLOW LEAD FREE REFLECTIVE PAVEMENT MARKINGS.
[3]	500000	200	LF	12 IN. WIDE HAPPTPM - WHITE FOR CROSSWALK.
[4][3]	800000	~~36~~ 27	SF	INSTALL POLE MOUNTED SIGN.
	800000	8	EA	12" BLACK FACED TRAFFIC SIGNAL HEAD SECTION WITH MAST ARM MOUNTING HADWARE.
[4][3]	800000	~~8~~ 4	EA	12" BLACK FACED TRAFFIC SIGNAL HEAD SECTION WITH PED POLE MOUNTING HADWARE.
[4][3]	801004	~~10~~ 5.35	CY	CONCRETE FOR SIGNAL FOUNDATION.
[4][3]	801106	~~56~~ 42	LF	4" X 6" WOOD SIGN SUPPORTS.
[4][3]	813014	~~36~~ 27	SF	INSTALL GROUND MOUNTED SIGN.
[4][3]	802501	~~1425~~ 875	LF	NO. 6 STRANDED BARE COPPER GROUND WIRE.
[4][3]	805145	500 365	LF	2 INCH SCHEDULE 80 RIGID PVC CONDUIT SLOTTED.
[4][3]	805155	~~50~~ 25	LF	4 INCH SCHEDULE 80 RIGID PVC CONDUIT SLOTTED.
[4][3]	811001	~~8~~ 4	EA	ELECTRICAL HANDHOLE.
[4][3]	837001	2	EA	GROUND ROD-3/4 INCH DIAMETER X 10 FOOT LENGTH.
[4][3]	861107	~~1450~~ 1025	LF	5 CONDUCTOR ELECTRICAL CABLE NO. 14 AWG
[4][3]	818010	~~2~~ 1	EA	14FT STEEL PEDESTAL POLE WITH BREAKAWAY TRANSFORMER BASE (NOTE FOUR 1" X 40" ANCHOR BOLTS.
[4]	800000	1	EA	INSTALL 27FT STEEL POLE WITH 56FT MAST ARM. NOTE FOUR 2" X 90" ANCHOR BOLTS. NOTE ONE 3" PVC CONDUIT BEND.
[4]	800000	25	SF	INSTALL SIGN MAST ARM MOUNT.

NOTES:

1. GEOMETRICS ARE TO BE CONFIRMED PRIOR TO THE INSTALLATION OF SIGNAL EQUIPMENT.
2. PAVEMENT MARKINGS DETAILED ARE PROPOSED AND ARE TO BE INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH SHA STANDARDS. ALL OTHER PAVEMENT MARKINGS WILL EITHER BE INSTALLED AS PART OF THE STATE HIGHWAY PROJECT OR ARE TO BE CONSIDERED EXISTING.
3. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC AND ARE TO BE CONSIDERED COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE PROJECT ENGINEER IMMEDIATELY.
4. CROSSWALKS TO BE INLINE WITH HANDICAP RAMPS AS DIRECTED BY THE PROJECT ENGINEER.
5. SIGNAL CONTRACTOR TO EXCAVATE SIDEWALK AS NECESSARY TO REMOVE/INSTALL TRAFFIC SIGNAL EQUIPMENT. UPON COMPLETION OF TRAFFIC SIGNAL WORK THE SIGNAL CONTACTOR IS TO BACKFILL THE EXCAVATED AREAS WITH MD-SHA APPROVED MATERIAL. THE RESTORATION OF THE SIDEWALK AREAS IS TO BE COMPLETED BY OTHERS.

CONTACT LIST

THE CONTACT PERSONS FOR DISTRICT 4

Mr. Dave Malkowski
District Engineer
410 321-2800

Mr. Randall Scott
Assistant District Engineer - Traffic
410 321-2800

Mr. Joseph McMahon
Assistant District Engineer - Utility
410 321-2800

Mr. Dave Ramesy
Assistant District Engineer - Maintenance
410 321-2800

Mr. Richard Daff
Chief, Traffic Operations Division
410 787-7630

PROPOSED SIGNS

[4] FLY/G 36" X 36"

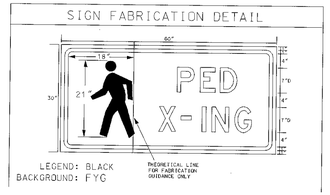
7.8 [4] FLY/G 36" X 36"

PROPOSED SIGNALS

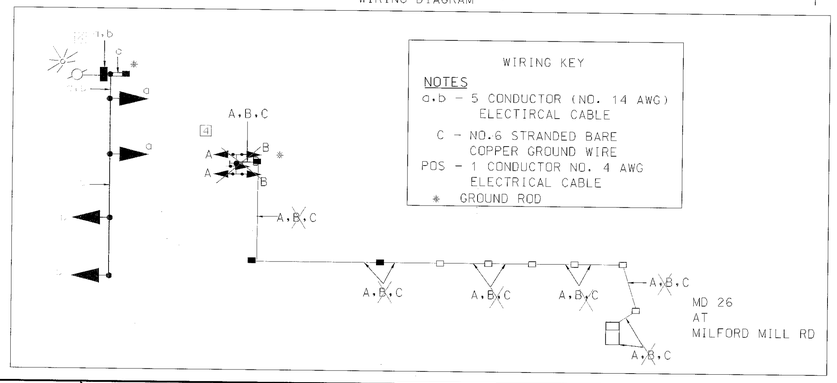
1-4 Y 12"

5.6 [4] PED X-ING 30" x 60" LEGEND: BLACK BACKGROUND: FYG

SIGN FABRICATION DETAIL



WIRING DIAGRAM



WIRING KEY

NOTES
a,b - 5 CONDUCTOR (NO. 14 AWG) ELECTIRCAL CABLE
C - NO.6 STRANDED BARE COPPER GROUND WIRE
POS - 1 CONDUCTOR NO. 4 AWG ELECTRICAL CABLE
* GROUND ROD

REVISIONS	APPROVALS
	TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION
	ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
	DIRECTOR, TRAFFIC & SAFETY

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
MD 26 AT ELLEN ROAD
PED HIB CROSSING

DRAWN BY: D. DICKERSON	F.A.P. NO.	TS NO. 4108	SHEET NO.
CHECKED BY:	S.H.A. NO. BA2735283		
SCALE: 1"=20'	COUNTY: BALTIMORE	T.T.M.S. NO. D-238	26A OF 43
DATE:	LOG MILE:		