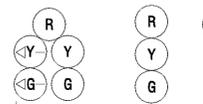
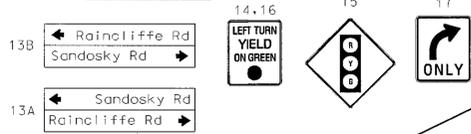


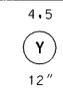
EXISTING SIGNALS



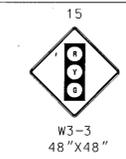
EXISTING SIGNS



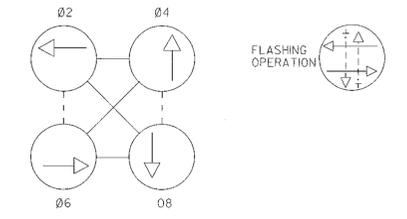
PROPOSED SIGNALS



PROPOSED SIGNS



NEMA PHASING



PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY
PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY

MD 32 IS CONSIDERED TO RUN IN A NORTH SOUTH DIRECTION.

PROJECT DESCRIPTION
THIS PROJECT INVOLVES THE RECONSTRUCTION OF THE EXISTING HAZARD IDENTIFICATION BEACON FOR SOUTHBOUND MD 32.

SPECIAL NOTES

1. CONTRACTOR SHALL ADJUST THE POLE FOUNDATION TO MAINTAIN REQUIRED CLEARANCES OVER THE ROAD AS NEEDED.
2. THE CONTRACTOR SHALL PERFORM TREE CLEARING AS NEEDED TO ACCOMMODATE BOTH POLE FOUNDATION AND COURTESY PAD.
3. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES AND NOTIFY THE PROJECT ENGINEER IMMEDIATELY IF HE PERCEIVES THAT A CONFLICT MAY EXIST.

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION

ITEM #	QUANTITY	ITEM DESCRIPTION
9001	1 EA	"G" SIZE CABINET (POLE MOUNTED) W/ FLASHER
9002	16 SF	SHEET ALUMINUM SIGN (MAST ARM MOUNTED) - 1 EA 48"x48" W3-3 SIGNAL AHEAD SIGN

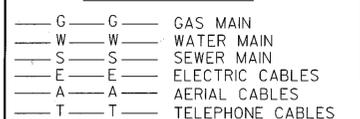
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM #	QUANTITY	ITEM DESCRIPTION
8001	1 EA	MAINTENANCE OF TRAFFIC
8002	3 CY	CONCRETE FOR SIGNAL FOUNDATION
8003	1 EA	FURNISH AND INSTALL ELECTRICAL UTILITY SERVICE EQUIPMENT (120/240) 60 AMP
8004	1 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8005	1 EA	FURNISH AND INSTALL GROUND ROD
8006	10 LF	FURNISH AND INSTALL 4" SCH 80 RIGID PVC CONDUIT-TRENCHED
8007	12 SF	FURNISH AND INSTALL 4" CONCRETE SIDEWALK
8008	16 SF	INSTALL OVERHEAD SIGN
8009	2 EA	FURNISH AND INSTALL 12" VEHICULAR TRAFFIC SIGNAL HEAD SECTION
8010	60 LF	FURNISH AND INSTALL ELECTRICAL CABLE: 1-CONDUCTOR NO 8 AWG-THHN/THWN
8011	60 LF	FURNISH AND INSTALL ELECTRICAL CABLE: 3-CONDUCTOR NO 14 AWG
8012	1 EA	FURNISH AND INSTALL 21' STEEL POLE WITH 60' MAST ARM
8013	1 EA	REMOVE AND DISPOSE OF EXISTING EQUIPMENT
8014	1 EA	TEST PIT EXCAVATION
8015	10 LF	FURNISH AND INSTALL 2" SCH 80 RIGID PVC CONDUIT-TRENCHED
8016	10 LF	FURNISH AND INSTALL #6 BARE STRANDED BARE COPPER GROUND WIRE
9017	1 EA	INSTALL POLE MOUNTED CABINET @ CONTRACTOR.

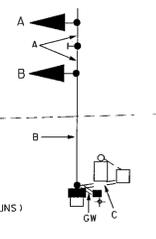
CONSTRUCTION DETAILS

- INSTALL 21' STEEL POLE WITH 60' MAST ARM (CUT TO 40') SIGNAL HEADS, SIGN, CONTROL AND DISTRIBUTION EQUIPMENT, AND POLE MOUNTED "G" SIZE FLASHER CABINET. (1 3", 2 2" CONDUIT BENDS IN BASE.)
- INSTALL 4" CONDUIT TRENCHED FOR UNDERGROUND SERVICE
- INSTALL 4" CONCRETE SIDEWALK 3'x4' FOR COURTESY PAD
- INSTALL ELECTRICAL HANDHOLE
- REMOVE EXISTING POLE, MAST ARM, SIGNAL HEADS AND FOUNDATION 12" BELOW GRADE.
- INSTALL 2 2" CONDUIT-TRENCHED: 1 FOR GROUND WIRE, 1 FOR FUTURE PHONE

UTILITY LEGEND



A, B 3- CONDUCTOR NO 14AWG
C 1- CONDUCTOR NO 4AWG (3 RUNS)
GW GROUND WIRE



REVISIONS	APPROVALS
(D) RECONSTRUCT H18 DUE TO ACCIDENT TIMSH F620 12/02 CJS C REPLACE LOOP DETECTORS DISABLED BY ROAD MILLING 11/91 SHA NO 411-06 B RELOCATED SIGNAL EQUIPMENT FOR NEW GEOMETRICS 8-7-89 AS-BUILT	ORIGINAL ON FILE 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 32 @ SANDOSKY/RAINCLIFFE RDS
SYKESVILLE, MARYLAND

DRAWN BY: TOM ZAYDEL	F.A.P. NO. 2089-D	TS NO. 2089-D	SHEET NO.
CHECKED BY: DENNIS DODA	S.H.A. NO. CL-701-501-785	T.I.M.S. NO. N/A	OF
SCALE: 1:20	COUNTY: CARROLL	LOG MILE: 06003200.47	
DATE: 7-10-85			