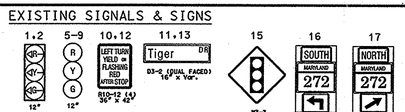
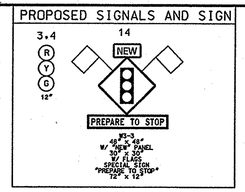
DRILL HOLES

MD 272 IS CONSIDERED TO RUN IN A NORTH-SOUTH DIRECTION.

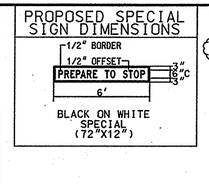
EXISTING SIGNALS & SIGNS



PROPOSED SIGNALS AND SIGN

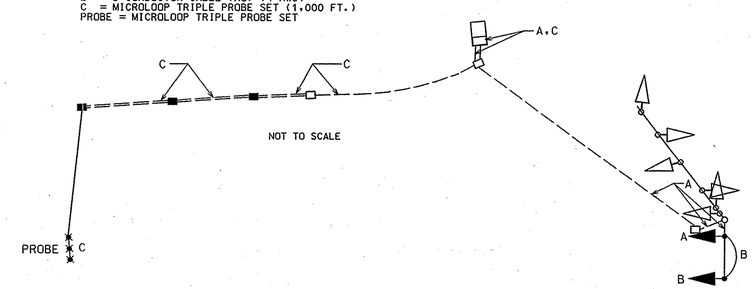


PROPOSED SPECIAL SIGN DIMENSIONS

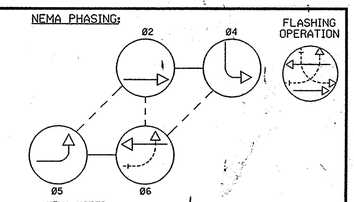


WIRING DIAGRAM

A = 7-CONDUCTOR CABLE (NO. 14 AWG)
B = 5-CONDUCTOR CABLE (NO. 14 AWG)
C = MICROLOOP TRIPLE PROBE SET (1,000 FT.)
PROBE = MICROLOOP TRIPLE PROBE SET



NEMA PHASING:



NEMA NOTES:
1. PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.
2. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

CONSTRUCTION DETAILS

A. INSTALL THE PROPOSED 15' MAST ARM W/ TWO (2) SIGNAL HEADS ON THE EXISTING MAST ARM POLE.
B. INSTALL THE PROPOSED 3" PVC SCHEDULE 80 CONDUIT - BORED.
C. INSTALL THE PROPOSED 2" PVC SCHEDULE 80 CONDUIT - TRENCHED.
D. INSTALL THE PROPOSED HANDHOLE.
E. USE THE EXISTING CONDUIT.
F. USE THE EXISTING HANDHOLE.
G. INSTALL THE PROPOSED MICROLOOP PROBE.
H. INSTALL THE PROPOSED 24" STOP LINE.
I. INSTALL THE PROPOSED 1" LIQUID TIGHT CONDUIT SLEEVE.
J. INSTALL W3-3 SIGN W/ "NEW" PANEL AND FLAGS ON TWO (2) 4" x 6" WOOD POSTS APPROXIMATELY 550 PRIOR TO THE PROPOSED STOP BAR.

PROJECT CONTACTS

THE PROJECT CONTACTS ARE AS FOLLOWS:

MR. ROBERT KIEL
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 810-3240

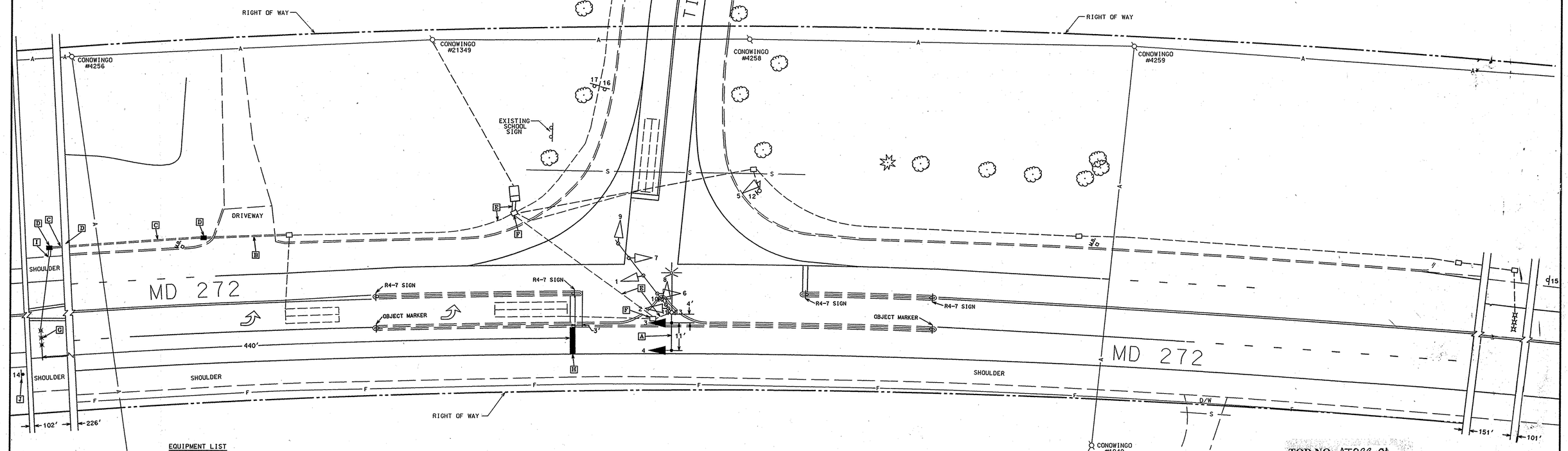
MR. TERRY WRIGHT
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 810-3250

MR. BARRY CLOTHIER
ASSISTANT DISTRICT ENGINEER - UTILITIES
PHONE: (410) 810-3275

MR. RICHARD DAFF
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

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

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



DRILL HOLES

DRILL HOLES

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY THE SHA

ITEM NO.	QUANTITY	DESCRIPTION
	28.3 S.F.	1 EACH - W3-3 SIGN (48" x 48") W/ "NEW" PANEL (30" x 30") W/ FLAGS, SPECIAL SIGN, "PREPARE TO STOP", 72" x 12", WOOD POLE MOUNTED INSTALLATION
	1 EACH	15' MINI MAST ARM (10' MINI MAST ARM PLUS 6'6" CUT FROM EXTENSION ARM)

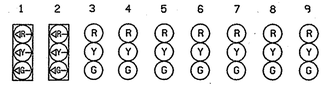
B. EQUIPMENT TO BE FURNISHED AND/ OR INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC
2002	1 C.Y.	TEST PIT EXCAVATION
5004	15 L.F.	F & I 24" WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
8001	6 EACH	F & I 12" LED SIGNAL HEAD SECTION
8024	40 L.F.	F & I 2" SCHEDULE 80 RIGID PVC CONDUIT - BORED
8026	300 L.F.	F & I 2" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8032	30 L.F.	F & I WOOD SIGN SUPPORTS 4" x 6"
8036	5 L.F.	F & I 1" LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
8041	1 EACH	F & I MICROLOOP TRIPLE PROBE SET W/ 1,000' LEAD-IN
8044	3 EACH	F & I ELECTRICAL HANDHOLE
8045	28.3 S.F.	INSTALL GROUND MOUNTED SIGN
8060	20 L.F.	F & I ELECTRICAL CABLE - 5-CONDUCTOR (NO. 14 AWG)
8061	160 L.F.	F & I ELECTRICAL CABLE - 7-CONDUCTOR (NO. 14 AWG)
8063	40 L.F.	F & I SAWCUT FOR SIGNAL (LOOP DETECTOR)
NEG.	1 EACH	CUT MAST ARM TO 10', COMBINE 10' & 5' SECTION, & THEN INSTALL MAST ARM (15') ON EXISTING MAST ARM POLE

C. EQUIPMENT TO BE REMOVED AND RETURNED TO THE SHA

ITEM NO.	QUANTITY	DESCRIPTION
		ALL REMOVED SIGNAL MATERIALS ARE TO BECOME THE PROPERTY OF THE CONTRACTOR

PHASE CHART



	1	2	3	4	5	6	7	8	9
PHASE 2 & 5	G	G	G	G	G	R	R	R	R
5 CHANGE	Y	Y	G	G	Y	R	R	R	R
PHASE 2 & 6	FR	FR	G	G	FR	G	G	R	R
6 CHANGE	FR	FR	Y	Y	FR	Y	Y	R	R
PHASE 4	R	R	R	R	R	R	R	G	G
4 CHANGE	R	R	R	R	R	R	R	Y	Y
FLASHING OPERATION	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/Y	FL/Y	FL/R	FL/R

UTILITY LEGEND

G	GAS MAIN
W	WATER MAIN
S	SEWER MAIN
E	ELECTRIC CABLES
A	AERIAL CABLES
T	TELEPHONE CABLES
D	STORM DRAIN
TV	CABLE TV
F	FIBER OPTIC CABLE

NOTES TO THE CONTRACTOR:

1. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC AND ARE NOT 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.
2. ALL UNUSED CABLES SHALL BE REMOVED FROM THE EXISTING CONDUITS.
3. THE CONTRACTOR SHALL CONTACT MR. BOB DEBLASE (410-787-7656) CONCERNING THE WIRING OF THE CONTROLLER FOR THE CORRECT PHASING.

TOD NO: AT933-01
SHA No.: 23855T2510703
MD 272 @ Tiger Drive

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

MD 272 AND TIGER DRIVE

RISING SUN, MARYLAND

APPROVALS	REVISIONS
TEAM LEADER	
ASST. DIV. CHIEF	A. 01/2007 - INSTALL 15' SIGNAL MAST ARM W/ SIGNALS FOR S/B MD 272
DIVISION CHIEF	SHA NO. AT933S185 TIMS NO. 1369
OFFICE DIRECTOR	B. 08/27/2002 - UPGRADE ICB TO HALF SIGNAL
	SHA NO. 8035176 TIMS NO. E302

ORIGINAL ON FILE

SCALE 1"= 20' DATE 02/07/2002 CONTRACT NO. XX1065285

DESIGNED BY: S. Bless of Whitman-Requardt
DRAWN BY: S. Bless of Whitman-Requardt
CHECKED BY: Neil Leary of Whitman-Requardt
F.A.P. NO.:

COUNTY: CECIL
LOGMILE: 07027218.38
TIMS: 1369

DRAWING NO. 3804B - OF

SHEET NO. OF 1