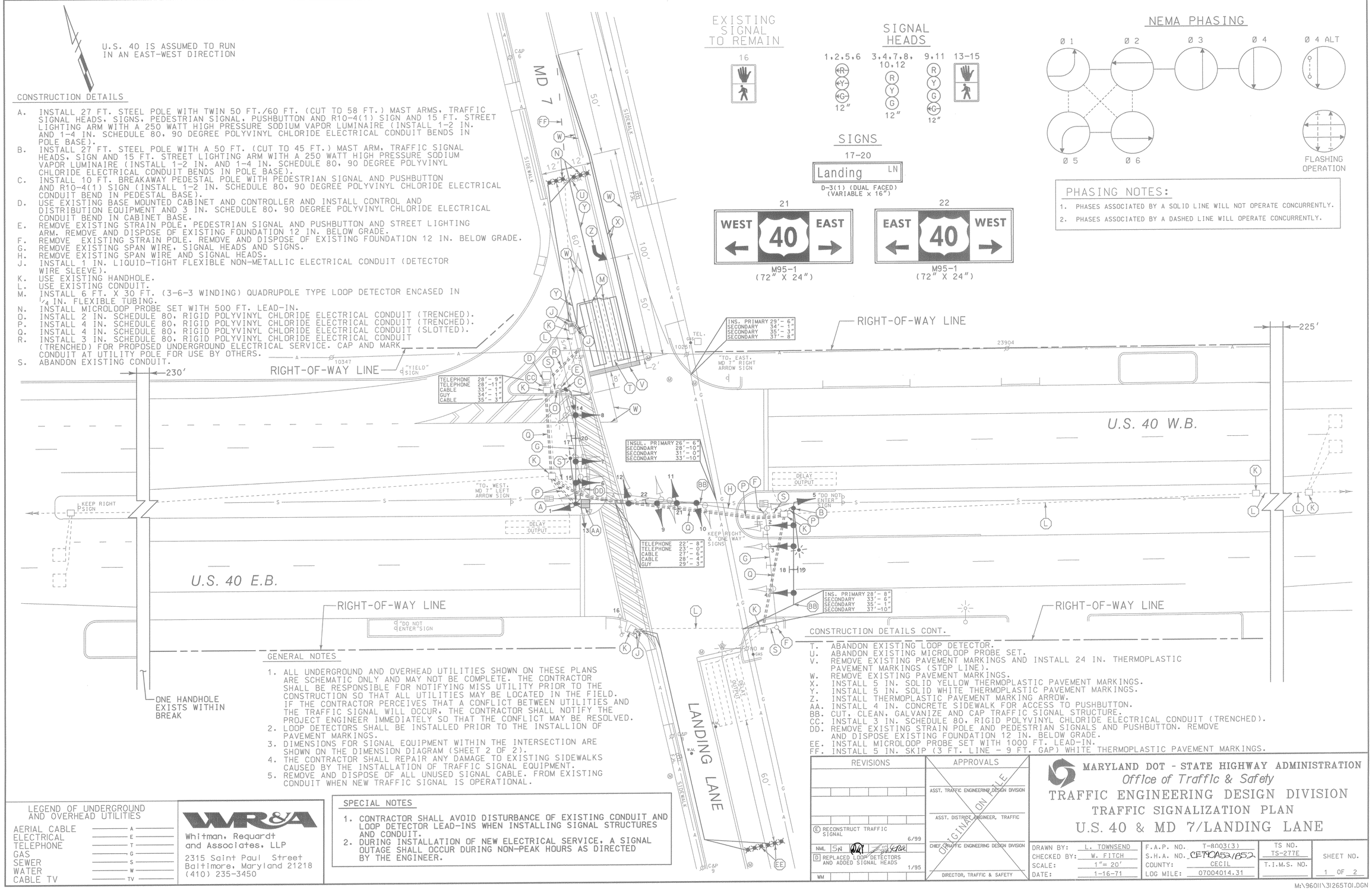
U.S. 40 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION

## CONSTRUCTION DETAILS

A. INSTALL 27 FT. STEEL POLE WITH TWIN 50 FT./60 FT. (CUT TO 58 FT.) MAST ARMS, TRAFFIC SIGNAL HEADS, SIGNS, PEDESTRIAN SIGNAL, PUSHBUTTON AND R10-4(1) SIGN AND 15 FT. STREET LIGHTING ARM WITH A 250 WATT HIGH PRESSURE SODIUM VAPOR LUMINAIRE (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN POLE BASE).
B. INSTALL 27 FT. STEEL POLE WITH A 50 FT. (CUT TO 45 FT.) MAST ARM, TRAFFIC SIGNAL HEADS, SIGN AND 15 FT. STREET LIGHTING ARM WITH A 250 WATT HIGH PRESSURE SODIUM VAPOR LUMINAIRE (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN POLE BASE).
C. INSTALL 10 FT. BREAKAWAY PEDESTAL POLE WITH PEDESTRIAN SIGNAL AND PUSHBUTTON AND R10-4(1) SIGN (INSTALL 1-2 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BEND IN PEDESTAL BASE).
D. USE EXISTING BASE MOUNTED CABINET AND CONTROLLER AND INSTALL CONTROL AND DISTRIBUTION EQUIPMENT AND 3 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BEND IN CABINET BASE.
E. REMOVE EXISTING STRAIN POLE, PEDESTRIAN SIGNAL AND PUSHBUTTON AND STREET LIGHTING ARM. REMOVE AND DISPOSE OF EXISTING FOUNDATION 12 IN. BELOW GRADE.
F. REMOVE EXISTING STRAIN POLE. REMOVE AND DISPOSE OF EXISTING FOUNDATION 12 IN. BELOW GRADE.
G. REMOVE EXISTING SPAN WIRE, SIGNAL HEADS AND SIGNS.
H. REMOVE EXISTING SPAN WIRE AND SIGNAL HEADS.
J. INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT (DETECTOR WIRE SLEEVE).
K. USE EXISTING HANDHOLE.
L. USE EXISTING CONDUIT.
M. INSTALL 6 FT. X 30 FT. (3-6-3 WINDING) QUADRUPOLE TYPE LOOP DETECTOR ENCASED IN ¼ IN. FLEXIBLE TUBING.
N. INSTALL MICROLOOP PROBE SET WITH 500 FT. LEAD-IN.
O. INSTALL 2 IN. SCHEDULE 80, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
P. INSTALL 4 IN. SCHEDULE 80, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
Q. INSTALL 4 IN. SCHEDULE 80, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (SLOTTED).
R. INSTALL 3 IN. SCHEDULE 80, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED) FOR PROPOSED UNDERGROUND ELECTRICAL SERVICE. CAP AND MARK CONDUIT AT UTILITY POLE FOR USE BY OTHERS.
S. ABANDON EXISTING CONDUIT.




## EXISTING SIGNAL TO REMAIN

16

## SIGNAL HEADS

1,2,5,6 — 12"
3,4,7,8, 10,12 — 12"
9,11 — 12"
13-15

## SIGNS

17-20

Landing LN

D-3(1) (DUAL FACED) (VARIABLE x 16")

21

WEST 40 EAST

M95-1 (72" X 24")

22

EAST 40 WEST

M95-1 (72" X 24")

## NEMA PHASING




## PHASING NOTES:

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

## GENERAL NOTES

1. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO THE CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
2. LOOP DETECTORS SHALL BE INSTALLED PRIOR TO THE INSTALLION OF PAVEMENT MARKINGS.
3. DIMENSIONS FOR SIGNAL EQUIPMENT WITHIN THE INTERSECTION ARE SHOWN ON THE DIMENSION DIAGRAM (SHEET 2 OF 2).
4. THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING SIDEWALKS CAUSED BY THE INSTALLATION OF TRAFFIC SIGNAL EQUIPMENT.
5. REMOVE AND DISPOSE OF ALL UNUSED SIGNAL CABLE, FROM EXISTING CONDUIT WHEN NEW TRAFFIC SIGNAL IS OPERATIONAL.

## CONSTRUCTION DETAILS CONT.

T. ABANDON EXISTING LOOP DETECTOR.
U. ABANDON EXISTING MICROLOOP PROBE SET.
V. REMOVE EXISTING PAVEMENT MARKINGS AND INSTALL 24 IN. THERMOPLASTIC PAVEMENT MARKINGS (STOP LINE).
W. REMOVE EXISTING PAVEMENT MARKINGS.
X. INSTALL 5 IN. SOLID YELLOW THERMOPLASTIC PAVEMENT MARKINGS.
Y. INSTALL 5 IN. SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS.
Z. INSTALL THERMOPLASTIC PAVEMENT MARKING ARROW.
AA. INSTALL 4 IN. CONCRETE SIDEWALK FOR ACCESS TO PUSHBUTTON.
BB. CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE.
CC. INSTALL 3 IN. SCHEDULE 80, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
DD. REMOVE EXISTING STRAIN POLE AND PEDESTRIAN SIGNALS AND PUSHBUTTON. REMOVE AND DISPOSE EXISTING FOUNDATION 12 IN. BELOW GRADE.
EE. INSTALL MICROLOOP PROBE SET WITH 1000 FT. LEAD-IN.
FF. INSTALL 5 IN. SKIP (3 FT. LINE - 9 FT. GAP) WHITE THERMOPLASTIC PAVEMENT MARKINGS.

## SPECIAL NOTES

1. CONTRACTOR SHALL AVOID DISTURBANCE OF EXISTING CONDUIT AND LOOP DETECTOR LEAD-INS WHEN INSTALLING SIGNAL STRUCTURES AND CONDUIT.
2. DURING INSTALLATION OF NEW ELECTRICAL SERVICE, A SIGNAL OUTAGE SHALL OCCUR DURING NON-PEAK HOURS AS DIRECTED BY THE ENGINEER.

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

| | |
|---|---|
| AERIAL CABLE | A |
| ELECTRICAL | E |
| TELEPHONE | T |
| GAS | G |
| SEWER | S |
| WATER | W |
| CABLE TV | TV |


WR&A
Whitman, Requardt and Associates, LLP
2315 Saint Paul Street
Baltimore, Maryland 21218
(410) 235-3450


REVISIONS

(E) RECONSTRUCT TRAFFIC SIGNAL 6/99
NML SN
(D) REPLACED LOOP DETECTORS AND ADDED SIGNAL HEADS 1/95
WM

APPROVALS

ASST. TRAFFIC ENGINEERING DESIGN DIVISION
ASST. DISTRICT ENGINEER, TRAFFIC
CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
DIRECTOR, TRAFFIC & SAFETY

ORIGINAL ON FILE

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
*Office of Traffic & Safety*
TRAFFIC ENGINEERING DESIGN DIVISION
TRAFFIC SIGNALIZATION PLAN
# U.S. 40 & MD 7/LANDING LANE

| | | | |
|---|---|---|---|
| DRAWN BY: L. TOWNSEND | F.A.P. NO. T-8003(3) | TS NO. TS-277E | SHEET NO. 1 OF 2 |
| CHECKED BY: W. FITCH | S.H.A. NO. CE7OA53/852 | T.I.M.S. NO. | |
| SCALE: 1"= 20' | COUNTY: CECIL | | |
| DATE: 1-16-71 | LOG MILE: 07004014.31 | | |

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