CONSTRUCTION DETAILS

A. INSTALL 27 FT. STEEL POLE WITH 60 FT. ARM, TRAFFIC SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS, SIGNS, AND 20 FT. STREET LIGHTING ARM WITH A 250 WATT HPS LAMP AND LUMINAIRE (NOTE: ONE-2 IN. PVC SCHEDULE 80 BEND AND FOUR 2 IN. X 90 IN. ANCHOR BOLTS).

B. INSTALL 27 FT. STEEL POLE WITH 30 FT. ARM, TRAFFIC SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS, SIGNS. (NOTE: ONE-2 IN. PVC SCHEDULE 80 BEND AND FOUR 1 1/2 IN. X 60 IN. ANCHOR BOLTS).

C. INSTALL NEMA SIZE "6" BASE MOUNTED CABINET AND CONTROLLER WITH ALL NECESSARY EQUIPMENT (NOTE: TWO- 4 IN., AND TWO-2 IN. PVC SCHEDULE 80 CONDUIT BENDS)

D. INSTALL 6 FT. X 30 FT. QUADRUPOLE (3-6-3) TYPE LOOP DETECTOR ENCASED IN 1/4 IN. FLEXIBLE TUBING.

E. INSTALL 6 FT. X 6 FT. (4) TYPE LOOP DETECTOR ENCASED IN 1/4 IN. FLEXIBLE TUBING.

F. INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALIC ELECTRICAL CONDUIT FOR DETECTOR WIRE SLEEVE.

G. INSTALL 3 IN. SCHEDULE 80 PVC ELECTRICAL CONDUIT- TRENCHED.

H. INSTALL 4 IN. SCHEDULE 80 PVC ELECTRICAL CONDUIT- SLOTTED PRIOR TO FINAL ROAD CONSTRUCTION.

I. INSTALL HANDHOLE.

J. INSTALL 5 IN. WHITE PERMANENT PREFORMED PAVEMENT MARKING TAPE.

K. INSTALL 5 IN. WHITE PERMANENT PREFORMED PAVEMENT MARKING TAPE.

L. INSTALL 12 IN. WHITE PERMANENT PREFORMED PAVEMENT MARKING TAPE.

M. INSTALL 24 IN. WHITE PERMANENT PREFORMED PAVEMENT MARKING TAPE.

N. REMOVE EXISTING POLE, SIGNS, ARM, AND TRAFFIC SIGNAL HEADS.

O. REMOVE EXISTING BASE MOUNTED CABINET AND CONTROLLER.

P. ABANDON EXISTING CONDUIT.

Q. REMOVE EXISTING HANDHOLE.

R. MAINTAIN/USE EXISTING POLE AND TRAFFIC SIGNAL HEADS.

S. MAINTAIN/USE EXISTING CONDUIT.

T. REMOVE EXISTING GROUND-MOUNTED SIGNS.

U. REMOVE EXISTING SIGN AND RELOCATE TO NEW MAST ARM.

V. PULL ALL PROPOSED ELECTRICAL CABLES INTO THE EXISTING CONTROLLER CABINET AND PROPERLY TAG/LABEL EACH CABLE. ALL INTERNAL WIRING SHALL BE CONDUCTED BY MD-SHA FORCES.

W. MAINTAIN EXISTING PAVEMENT MARKINGS.

X. INSTALL GROUND MOUNTED SIGN.

Y. MAINTAIN/USE EXISTING LOOP DETECTOR.

Z. INSTALL TWO 5 IN. YELLOW REFLECTIVE, THERMOPLASTIC PAVEMENT MARKING WITH 4 IN. SPACE BETWEEN LINES AS SHOWN.

AA. USE EXISTING HANDHOLE.

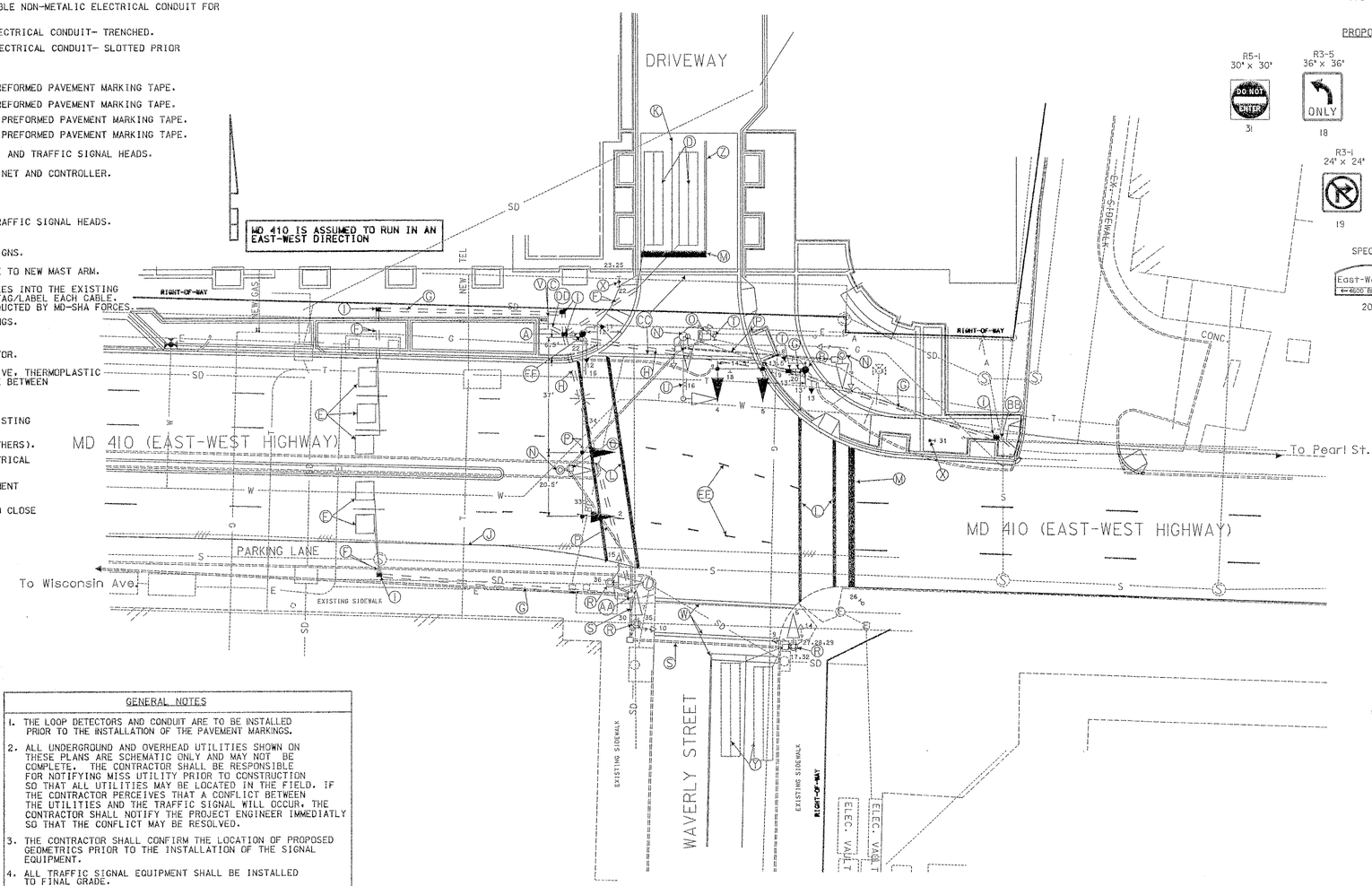
BB. RUN INTERCONNECT CABLE USING EXISTING OVERHEAD LINES.

CC. INSTALL SPECIAL CROSSWALK (BY OTHERS).

DD. INSTALL 4" SCHEDULE 80 PVC ELECTRICAL CONDUIT-TRENCHED.

EE. INSTALL 5" WHITE PERFORMED PAVEMENT MARKING TAPE (3' LINE, 9' GAP).

FF. HAND-DIG POLE FOUNDATION (DUE TO CLOSE PROXIMITY OF UTILITIES).



GENERAL NOTES

1. THE LOOP DETECTORS AND CONDUIT ARE TO BE INSTALLED PRIOR TO THE INSTALLATION OF THE PAVEMENT MARKINGS.
2. 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 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 WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATLY SO THAT THE CONFLICT MAY BE RESOLVED.
3. THE CONTRACTOR SHALL CONFIRM THE LOCATION OF PROPOSED GEOMETRICS PRIOR TO THE INSTALLATION OF THE SIGNAL EQUIPMENT.
4. ALL TRAFFIC SIGNAL EQUIPMENT SHALL BE INSTALLED TO FINAL GRADE.
5. PAVEMENT MARKINGS DETAILED ARE PROPOSED AND SHALL BE INSTALLED BY THE CONTRACTOR INACCORDANCE WITH SHA STANDARDS.

UTILITY LEGEND

—G—G—	GAS MAIN
—W—W—	WATER MAIN
—S—S—	SEWER MAIN
—E—E—	ELECTRIC CABLES
—A—A—	AERIAL CABLES
—T—T—	TELEPHONE CABLES
—SD—SD—	STORM DRAIN
—BC—BC—	BURIED CABLES

PROPOSED SIGNAL HEADS

12" 12"
R Y G
2,3, 4,5 — 8,11, 12,13

EXISTING SIGNAL HEADS

12" 12"
R Y G
1,6, 7 — 9,10, 14,15

PROPOSED SIGNS

R5-1 30" x 30" — DO NOT ENTER — 31
R3-5 36" x 36" — ONLY — 18
R6-1(R) 36" x 12" — ONE WAY — 25
R10-11a 24" x 30" — NO TURN ON RED — 23
R3-1 24" x 24" — 19
R6-1(L) 36" x 12" — ONE WAY — 22,24,32
R10-4(l) 9" x 12" — 29,35,36
SPECIAL East-West Hwy ← 4600 BLK. — 20
SPECIAL 72"X24" — 24" MARYLAND 355 18" — SOUTH — TO — 33
SPECIAL 72"X24" — 24" MARYLAND 355 18" — NORTH — TO — 34

EXISTING SIGNS

R10-11a 24" x 30" — NO TURN ON RED — 30
R6-1(R) 36" x 12" — ONE WAY — 28
R5-1 30" x 30" — DO NOT ENTER — 26
R10-4(l) 9" x 12" — 29,35,36

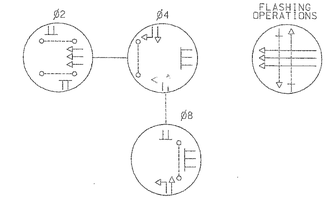
EXISTING SIGNS TO BE REMOVED

SPECIAL Waverly St ← 7500 BLK. — 16 (TO BE RELOCATED)
R3-5 36" x 42" — ONLY ONLY
R6-1(L) 36" x 12" — ONE WAY
R10-4(l) 9" x 12"

TO BE REMOVED

R3-2 24" x 24" — 27
R3-1 24" x 24" — 17

NEMA PHASING



PHASING NOTES

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

REVISIONS	APPROVALS
A. 10/11/99 MODIFICATION DUE TO GEOMETRIC IMPROVEMENTS	ASST. TRAFFIC ENGINEERING DESIGN DIVISION
	ASST. DISTRICT ENGINEER, TRAFFIC
	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
	DIRECTOR, TRAFFIC & SAFETY

ORIGINAL ON FILE

WELLS & ASSOCIATES, LLC
TRAFFIC, TRANSPORTATION, and PARKING CONSULTANTS
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Telephone: 703/917-6620 Facsimile: 703/917-0739

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

MD 410 East-West Highway
At Waverly Street

DRAWN BY: RAK	F.A.P. NO.	TS NO. 120 A	SHEET NO. 1 OF 2
CHECKED BY: LES	S.H.A. NO.		
SCALE: 1" = 20'	COUNTY: MONTGOMERY	T.I.M.S. NO.	
DATE: 4-17-00	LOG MILE:		