EXISTING SIGN TO BE REMOVED

10a

PROCEED ON FLASHING RED AFTER STOP

R10-6(1) (60" x 36")

PROPOSED SIGNS TO BE BAGGED

10

LEFT TURN YIELD ON FLASHING RED ARROW AFTER STOP

R10-12(4) (36" x 42")

11

NORTH INTERSTATE 495

ASSOCIATED SHIELD ASSEMBLY (48" X 75")

PROPOSED SIGNS

12

LEFT TURN YIELD ON FLASHING RED ARROW AFTER STOP

R10-12(4) (36" x 42")

EX. SIGNAL HEADS TO BE BAGGED

1 — R, Y, G — 12"

8,9 — R, Y, G — 12"

PR. SIGNAL HEADS TO BE BAGGED

2 — R, Y, G — 12"

3 — R, Y, G — 12"

PROPOSED SIGNAL HEADS

4,5 — R, Y, G — 12"

6,7 — R, Y, G — 12"

NEMA PHASING

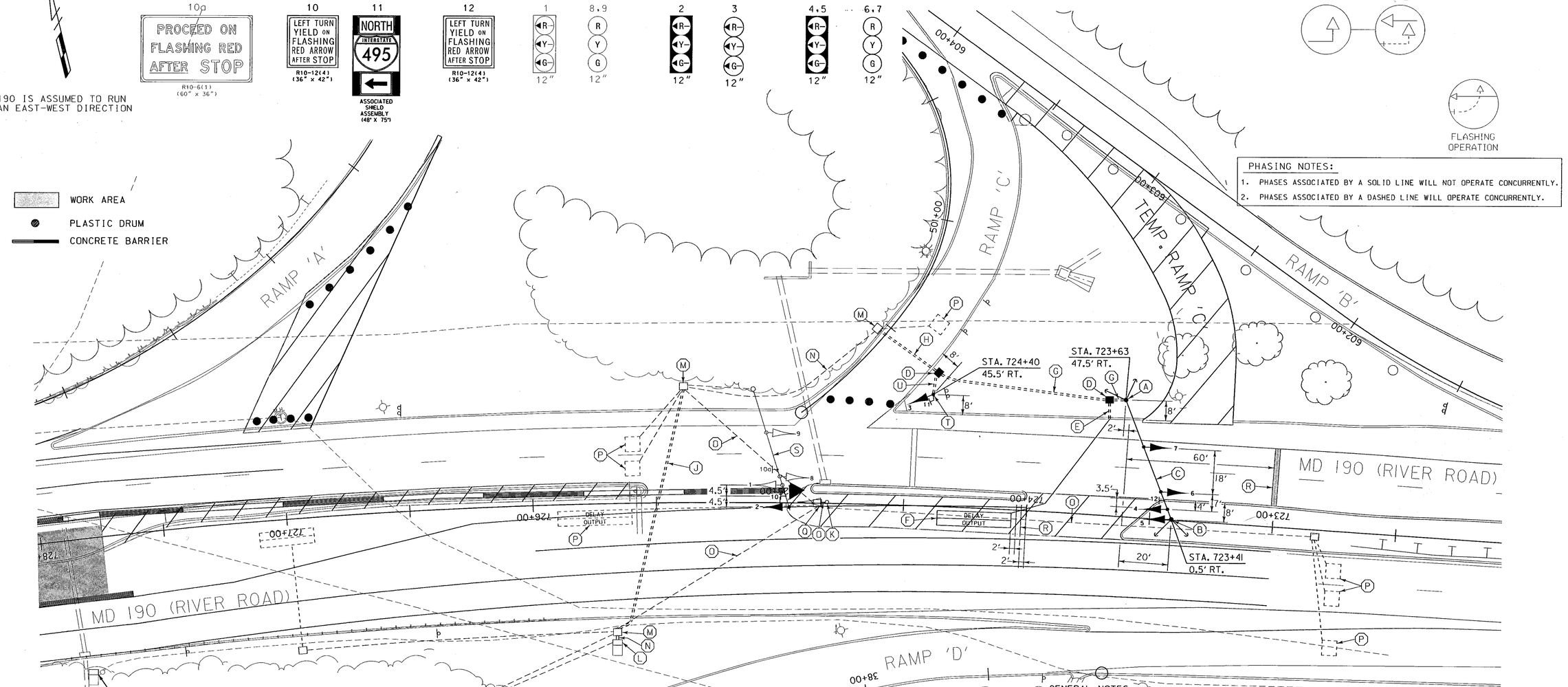
Ø1 Ø2

FLASHING OPERATION

MD 190 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION

PHASING NOTES:

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



CONSTRUCTION DETAILS

A. INSTALL 40 FT. CLASS II WOOD POLE WITH 3 IN. ELECTRICAL CONDUIT PVC RISER AND BACK GUYS.
B. INSTALL 40 FT. CLASS II WOOD POLE WITH POLE MOUNTED SIGNAL HEAD, SIGN AND BACK GUYS.
C. INSTALL 3/8 IN. STEEL SPAN WIRE, 1/4 IN. TETHER WIRE, SIGNAL HEADS AND SIGN. (BOTTOM TETHER R10-12(4) SIGN AND SIGNAL HEAD 2)
D. INSTALL HANDHOLE.
E. INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT (DETECTOR WIRE SLEEVE).
F. INSTALL 6 FT. x 30 FT. (3-6-3 WINDING) QUADRUPOLE TYPE LOOP DETECTOR ENCASED IN 1/4 IN. FLEXIBLE TUBING.
G. INSTALL 3 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
H. INSTALL 3 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (BORED).
J. INSTALL 4 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (BORED).
K. REMOVE EXISTING PEDESTAL POLE, SIGNAL HEAD AND SIGN. REMOVE FOUNDATION 2 FT. BELOW GRADE.
L. USE EXISTING BASE MOUNTED CABINET AND CONTROLLER.
M. USE EXISTING HANDHOLE.
N. USE EXISTING CONDUIT.
O. CAP AND ABANDON EXISTING CONDUIT.
P. ABANDON EXISTING LOOP DETECTOR.
Q. REMOVE EXISTING HANDHOLE.
R. INSTALL 24 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (STOP LINE).
S. REMOVE EXISTING SIGN AND INSTALL R10-12(4) SIGN AND SIGNAL HEAD ON MAST ARM AS NOTED.
T. INSTALL 14 FT. BREAKAWAY PEDESTAL POLE WITH SIGNAL HEAD AND SIGN. (INSTALL 2-2 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN PEDESTAL BASE).
U. INSTALL 2 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).

SPECIAL NOTE:

THE CONTRACTOR SHALL TURN EXISTING DISCONNECT SWITCH ON REAR OF WHALEN DETECTOR CABINET TO "OFF" POSITION. THE CONTRACTOR SHALL REMOVE EXISTING WHALEN DETECTOR AND CONDUIT ATTACHED TO FASCIA BEAM OF BRIDGE. EXISTING CABINET TO REMAIN IN PLACE.

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. INSTALL LOOP DETECTORS PRIOR TO THE INSTALLATION OF PAVEMENT MARKINGS. REFER TO MAINTENANCE OF TRAFFIC PLANS FOR ADDITIONAL DETAILS.
3. VERIFY PROPOSED GEOMETRICS PRIOR TO INSTALLING SIGNAL EQUIPMENT.
4. ALL HANDHOLES SHALL BE INSTALLED AT FINAL GRADE.
5. REMOVE AND DISPOSE OF ALL UNUSED SIGNAL CABLE.
6. THE SIGNAL CONTRACTOR SHALL DETERMINE IF ANY WORK BY OTHER CONTRACTORS CAN NOT BE COMPLETED UNTIL INSTALLATION OF SIGNAL EQUIPMENT IS COMPLETE. THE SIGNAL CONTRACTOR SHALL NOTIFY OTHER CONTRACTORS OF THIS WORK.

PHASES 1B-IV CONSTRUCTION - TSP-1

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

AERIAL CABLE	A
ELECTRICAL	E
TELEPHONE	T
GAS	G
SEWER	SS
STORM DRAIN	SD
WATER	W
CABLE TV	TV

WR&A
Whitman, Requardt and Associates, LLP
801 South Caroline Street
Baltimore, Maryland 21231
(410) 235-3450

REVISIONS

A	TEMPORARY TRAFFIC SIGNAL				11/9/04
NML	EST				

APPROVALS

TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION

ASST. TRAFFIC ENGINEERING DESIGN DIVISION

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
MD 190 (RIVER ROAD) AND I-495 RAMP 'C'

DRAWN BY:	C. JEDNORSKI	F.A.P. NO.	AC-STPG-000S(588)E	TS NO. 3882A-P18	SHEET NO.
CHECKED BY:	C. JEDNORSKI	S.H.A. NO.	AW517A5V/B5V		
SCALE:	1" = 20'	COUNTY:	MONTGOMERY	T.I.M.S. NO. F629	157 OF 168
DATE:	3-30-99	LOG MILE:	150190II.58		

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