F.H.W.A. REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	MD	SEE TITLE SHEET	351	465

CONSTRUCTION DETAILS

PHASE IV

A. USE EXISTING BASE MOUNTED CABINET/CONTROLLER.

B. USE EXISTING CONDUIT.

C. USE EXISTING STRAIN POLE.

D. INSTALL HANDHOLE.

E. INSTALL 1 IN. LIQUID TIGHT, NON-METALLIC CONDUIT FOR LOOP DETECTOR SLEEVE.

F. INSTALL 2 IN. POLYVINYL CHLORIDE (SCH.40) ELECTRICAL CONDUIT-TRENCHED.

G. INSTALL 2 IN. POLYVINYL CHLORIDE (SCH.80) ELECTRICAL CONDUIT-TRENCHED. (SEE NOTE 1)

H. USE EXISTING HANDHOLE.

J. INSTALL 1 IN. GALVANIZED STEEL CONDUIT FOR LOOP DETECTOR SLEEVE.

K. USE EXISTING HANDHOLE SPLICE EXISTING 2-CONDUCTOR ALUMINUM SHIELDED CABLE TO NEW LOOP WIRE.

L. INSTALL 6 FT. X 6 FT. VEHICLE LOOP DETECTOR (3 TURNS) ENCASED IN FLEXIBLE TUBING.

SIGNS

13A,15A — Forbes Blvd.

13B,15B — Forbes Blvd.

D3-2 - DUAL FACED VAR. X 16"

17 EAST MARYLAND 450 — 30" X 51"

18 WEST MARYLAND 450 — 48" X 75"

19 WEST MARYLAND 450 — 30" X 51"

20 EAST MARYLAND 450 — 48" X 75"

ASSOCIATED SHIELD ASSEMBLY

14,16,B4,B5 — LEFT TURN YIELD ON GREEN — R 10-12 — 36" X 42"

MD 450 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION

SIGNALS

1,4,B1 — 12"/8"

2,5,B2 — 12"

3,6,8,9,10,11,12,B3 — 12"

7 — 12"/8"

NOTE: SIGNALS 7,8,9,10,11,12 AND SIGNS 17-20 ARE EXISTING AND ARE TO REMAIN.

SIGNAL 1,2,4,5,6 AND SIGNS 14,16 ARE PROPOSED.

SIGNAL 3 AND SIGNS 13,15 ARE EXISTING AND ARE TO BE RELOCATED.

SIGNAL 3 SHALL BE UNBAGGED.

SIGNALS /SIGNS B1,B2,B3,B4,B5 ARE EXISTING AND SHALL REMAIN AND BE BAGGED.

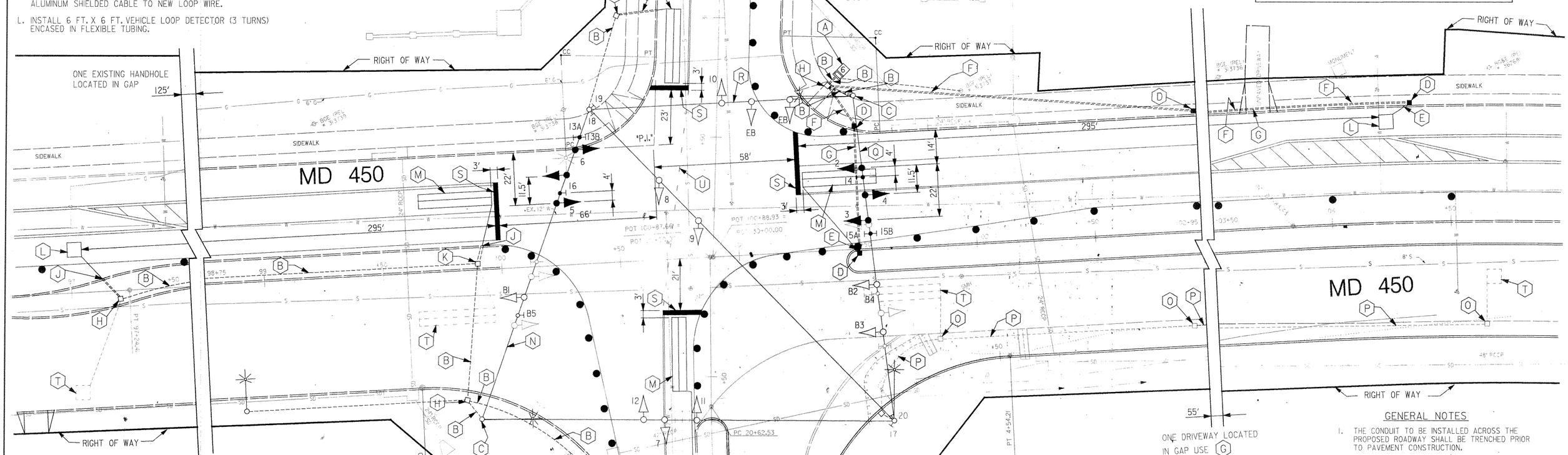
Ø 1 Ø 2 Ø 4

Ø 5 Ø 6 Ø 8

FLASHING OPERATION

PHASING NOTES

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



M. INSTALL 6 FT. X 30 FT. QUADRUPOLE TYPE VEHICLE LOOP DETECTOR (2-4-2 TURNS) ENCASED IN FLEXIBLE TUBING.

N. USE EXISTING SPAN WIRE. INSTALL VEHICLE SIGNAL HEADS AND SIGN. REMOVE EXISTING VEHICLE SIGNAL HEADS, BAG EXISTING VEHICLE SIGNAL HEAD AND SIGN AND RELOCATE EXISTING SIGN. (NOTE: TETHER 5-SECTION VEHICLE SIGNAL HEADS AND PROVIDE APPROXIMATELY 50 FT. OF ADDITIONAL ELECTRICAL CABLE FOR EACH SIGNAL HEAD FOR USE DURING ROADWAY CONSTRUCTION PHASING/STAGING.)

O. REMOVE EXISTING HANDHOLE.

P. CAP AND ABANDON OR REMOVE EXISTING CONDUIT.

Q. USE EXISTING SPAN WIRE. INSTALL VEHICLE SIGNAL HEADS AND SIGN, UNBAG EXISTING VEHICLE SIGNAL HEAD, RELOCATE EXISTING VEHICLE SIGNAL HEAD AND SIGN, REMOVE EXISTING VEHICLE SIGNAL HEAD AND BAG EXISTING VEHICLE SIGNAL HEAD AND SIGN. (NOTE: TETHER 5-SECTION VEHICLE SIGNAL HEADS AND PROVIDE APPROXIMATELY 50 FT. OF ADDITIONAL ELECTRICAL CABLE FOR EACH SIGNAL HEAD FOR USE DURING ROADWAY CONSTRUCTION PHASING/STAGING.)

R. USE EXISTING SPAN WIRE.

S. INSTALL 24 IN. WHITE PREFORMED PAVEMENT MARKING FOR STOP LINE.

T. ABANDON EXISTING VEHICLE DETECTOR.

U. INSTALL 6 IN. WIDE YELLOW PAVEMENT MARKING TAPE - 2' LINE/6' GAP.

GENERAL NOTES

1. THE CONDUIT TO BE INSTALLED ACROSS THE PROPOSED ROADWAY SHALL BE TRENCHED PRIOR TO PAVEMENT CONSTRUCTION.
2. DETECTORS SHALL BE INSTALLED PRIOR TO FINAL PAVEMENT SURFACE COURSE.
3. THE CONTRACTOR SHALL CONFIRM THE LOCATIONS OF THE PROPOSED GEOMETRICS PRIOR TO THE INSTALLATION OF SIGNAL EQUIPMENT.
4. FOR THE LOCATION OF THE "ARROW" AND "ONLY" PAVEMENT MARKINGS AND SIGNS, SEE THE TRAFFIC CONTROL PLAN TCP-57.
5. ALL POLE AND CABINET FOUNDATIONS AND HANDHOLES SHALL BE INSTALLED AT FINAL GRADE.

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

AERIAL CABLES — A
ELECTRICAL — E
TELEPHONE — T
GAS — G
SEWER — S
WATER — W
CABLE TV — TV

TEMPORARY SIGNAL PHASE IV

DWG. NO. TS-5

THE WILSON T. BALLARD CO.
CONSULTING ENGINEERS
OWINGS MILLS, MARYLAND

REVISIONS

(A) AUGUST 1996 - WTB MODIFY EXISTING SIGNAL SHA NO. PG9005171

JDM MAR BEK

APPROVAL

ORIGINALS ON FILE

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

MD 450 (ANNAPOLIS ROAD) AT FORBES BLVD.

LOG MILE NO. 16045006.59 — 8 - 96

S. BLOSS	N/A		
T. HANNAN	N/A		
1"=20'	PRINCE GEORGES	TS-3600-X4-P	351 465

FILE NO. S5565450.DGN
09-30-96 FGB/JLS