FHWA REGION NO	STATE	FED. AID PROJ. NO	SHEET NO.	TOTAL SHEETS
3	MD.	SEE TITLE SHEET		

MD 355 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

SIGNALS

1,2,5–8: R, Y, G — 12"

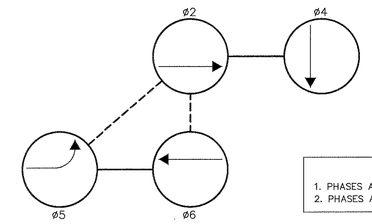
3: R, Y, G — 12"/8"

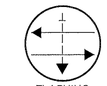
4: R, Y, G — 12"

SIGNS

9: LEFT TURN YIELD ON GREEN — R 10–12, 36" x 42"

NEMA PHASING

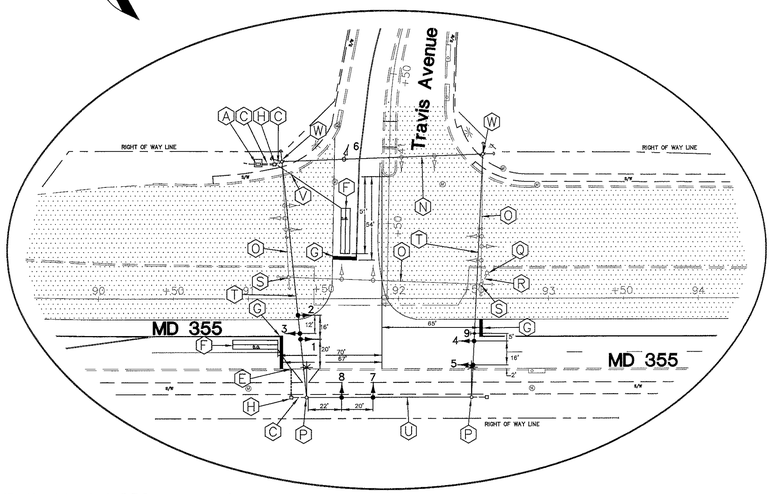




FLASHING OPERATION

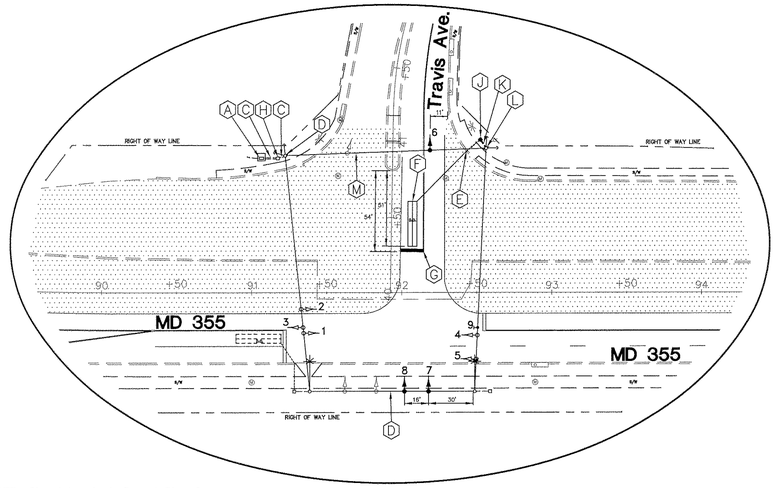
PHASING NOTES:

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



NOTE: Signal heads 1–5,7,8 are proposed. Signal head 6 is existing and is to remain. Sign 9 is existing and is to be relocated.

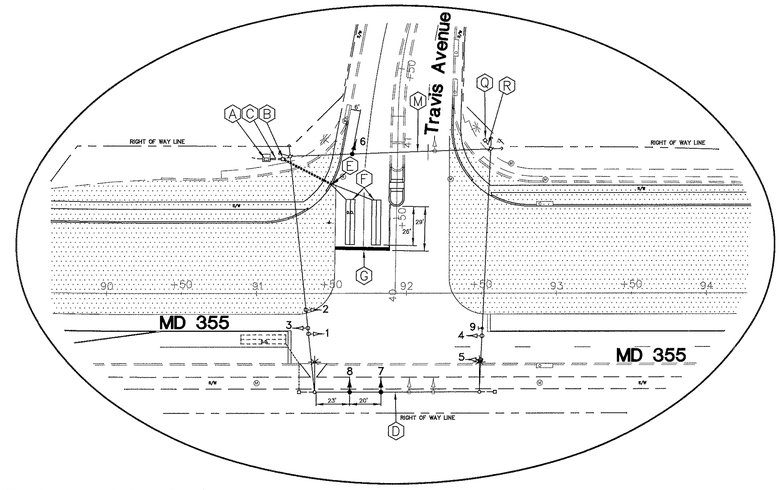
Maintenance of Traffic
Phase 2, Stage 2a



NOTE: Signal heads 1–5 and Sign 9 are existing and are to remain.

Signal heads 6–8 are existing and are to be relocated.

Maintenance of Traffic
Phase 2, Stage 2b



NOTE: Signal heads 1–5 and Sign 9 are existing and are to remain.

Signal heads 6–8 are existing and are to be relocated.

Maintenance of Traffic
Phase 2, Stage 2c

Intersection Operation

The existing cabinet and controller are to be utilized. The phasing is to be modified to a NEMA four phase, semi-traffic-actuated mode. There will be an exclusive/permissive left turn for the southbound movement of MD 355. The through movements for MD 355 will operate concurrently. The Travis Avenue movements will operate alone.

Construction Details

A. Existing cabinet/controller are to be utilized.
B. Use existing handhole and splice new loopwire to existing 2-conductor aluminum shielded cable.
C. Use existing conduit.
D. Use existing span wire and traffic signal heads. Relocate as shown.
E. Install 1 in. galvanized steel conduit for loop detector sleeve.
F. Install 6 ft. x 30 ft. quadrupole type vehicle loop detector (2-4-2 turns).
G. Install 24 in. preformed white pavement marking for stop line.
H. Use existing handhole.
J. Install handhole.
K. Install 2 in. polyvinyl chloride (Schedule 40) electrical conduit – trenched.
L. Install 2 in. PVC riser and weatherhead on existing wood pole.
M. Use existing span wire and traffic signal head. Relocate as shown.
N. Use existing span wire and traffic signal. Remove existing traffic signals used for temporary detour of Professional Drive.
O. Remove existing span wire and all attached equipment. Relocate sign as shown.
P. Use existing strain pole.
Q. Remove existing handhole.
R. Cap and abandon existing conduit.
S. Remove existing wood pole and all attached equipment.
T. Install 3/8 in. steel span wire, vehicle signal heads (polycarbonate), and sign as shown.
U. Install 3/8 in. steel span wire, and vehicle signal heads as shown.
V. Use existing loop detector sleeve.
W. Use existing wood pole.

Equipment List "A"

Equipment to be supplied by the SHA.

Quantity	Unit	Description
3	EA	12 in., one-way, three section (R,Y,G) polycarbonate adjustable traffic signal head – span wire mount.
2	EA	12 in., one-way, three section (R,Y,G) adjustable traffic signal head – span wire mount.
1	EA	8 in. / 12 in., one-way, five section (8 in. R,Y,G / 12 in. YA,GA) polycarbonate adjustable traffic signal head – span wire mount.
1	EA	12 in., one-way, five section (R,Y,YA,G,GA) polycarbonate adjustable traffic signal head – span wire mount.

Equipment List "C"

Equipment to be removed by the contractor and delivered to the MCDOT Systems Technical Center, 1283 Seven Locks Road, Building "C", Rockville, MD 20852. A twenty-four (24) hour notice is required prior to delivery. Contact Mr. Emil Wolanin at (301) 217-2208.

Quantity	Unit	Description
8	EA	Traffic signal head.
1	EA	Overhead mounted sign.

Equipment List "B"

Equipment to be furnished and/or installed by the Contractor.

Quantity	Unit	Description
100	LF	24 in. preformed white pavement marking for stop line.
1	EA	Handhole.
675	LF	Sawcut for signal loop detector.
1875	LF	Loop detector wire (No. 14 A.W.G.) encased in flexible tubing.
100	LF	1 in. galvanized steel conduit for loop detector sleeve.
550	LF	2-conductor (aluminum shielded) electrical cable (No. 14 A.W.G.).
10	LF	2 in. polyvinyl chloride (Schedule 40) electrical conduit – trenched.
650	LF	3/8 in. steel span wire.
1	EA	Ground rod – 3/4 in. diameter x 10 ft. length.
6	EA	Relocate existing traffic signal head – span wire mount.
2	EA	Loop detector splice.
LS	LS	Removal of existing traffic signal equipment.
7	EA	Install traffic signal head – span wire mount.
10.5	SF	Relocate existing sheet aluminum signing – overhead mount.
1	EA	2 in. weatherhead.

NOTES

1. "D.O." indicates delay output loop detector.
2. Proposed geometrics shall be confirmed prior to the installation of signal equipment.
3. Loop detectors and conduit shall be installed prior to the installation of pavement markings.
4. Pavement markings detailed are proposed and are to be installed by the contractor in accordance with S.H.A. standards. All other pavement markings not detailed will be installed as part of the highway contract.
5. All utilities are shown in their approximate location and are not to be considered as complete. The Contractor shall be responsible for contacting Miss Utility to verify the the locations of all utilities. The Contractor shall contact the appropriate personel prior to construction to avoid potential conflicts so that field adjustments can be made.

GEOMETRIC LEGEND

EXISTING GEOMETRICS
PROPOSED GEOMETRICS

UTILITY LEGEND

G	GAS MAIN
W	WATER MAIN
S	SEWER MAIN
D	STORM DRAIN
E	ELECTRIC CABLES
A	AERIAL CABLES
T	TELEPHONE CABLES
C	CABLE TELEVISION

LEGEND

– CONSTRUCTION AREA

A/E GROUP, INC.
CONSULTING ENGINEERS • PLANNERS
11409 CRONHILL DRIVE
OWINGS MILLS, MD. 21117
(410) 363-1908
A/E JOB NO: 94-264

REVISIONS

APPROVALS

CHIEF, SIGNAL DESIGN SECTION 11/9/95

ASST. DISTRICT ENGINEER, TRAFFIC

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION 11/13/95

DIRECTOR, OFFICE OF TRAFFIC & SAFETY 11/14/95

MDOT – STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

SIGNAL # 15035515.55

DRAWN BY: J. Dirndorfer
DES. BY: J. Dirndorfer
CHK. BY: 11/7/95

MD 355 at Travis Avenue

COUNTY: MONTGOMERY

DATE: November 6, 1995
SCALE: 1" = 50'

F.A.P. NO. AC-NH-G-5113(10) C
S.H.A. NO. M 611-501-371

TS/STD. NO. 3555-X2-P

SHEET NO. ____ OF ____