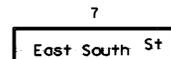




EAST STREET IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

### SIGNS



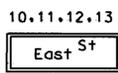
D3-2  
VARIABLE x 16 in.



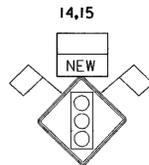
R3-5 (L)  
30 in. x 36 in.



R3-5 (R)  
30 in. x 36 in.



D3-2  
VARIABLE x 16 in.  
(DUAL FACE)



W3-3  
48 in. x 48 in.  
WITH "NEW" PANEL  
24 in. x 24 in.  
AND FLAGS

SIGNS 14 AND 15 ARE TO BE INSTALLED ON BOTH APPROACHES OF EAST SOUTH STREET AT LEAST 100' PRIOR TO THE STOP LINE, OR AS DIRECTED BY THE FIELD ENGINEER.

### CONSTRUCTION DETAILS

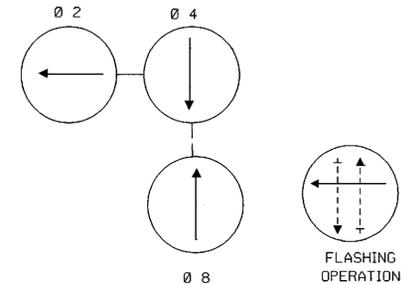
- A. INSTALL NEMA TYPE 'M' CABINET - BASE MOUNT (NOTE: 2-4" PVC 90 DEGREE ANGLE BENDS AND 2-2" PVC 90 DEGREE ANGLE BENDS).
- B. INSTALL 25 FT. SQUARE TAPERED STEEL POLE WITH 45 FT. MAST ARM, TRAFFIC SIGNAL HEADS, SIGNS AND RECTANGULAR LUMINAIRE AS NOTED (NOTE: 1-3" PVC 90 DEGREE ANGLE BEND).
- C. INSTALL 25 FT. SQUARE TAPERED STEEL POLE WITH PROVISIONS FOR TWIN 45' MAST ARMS, MOUNT ONE 45' ARM, TRAFFIC SIGNAL HEADS, SIGNS AND RECTANGULAR LUMINAIRE AS NOTED. DELIVER OTHER 45' MAST ARM WITH FIXTURES (EAST STREET) TO THE CITY OF FREDERICK STORAGE YARD FOR FUTURE INSTALLATION (NOTE: 1-3" PVC 90 DEGREE ANGLE BEND).
- D. NOT IN CONTRACT  
INSTALL 25 FT. SQUARE TAPERED STEEL POLE WITH 45 FT. MAST ARM, TRAFFIC SIGNAL HEADS, SIGNS, AND LUMINAIRE.
- E. INSTALL 24 IN. WHITE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS (STOP LINE).
- F. INSTALL 12 IN. WHITE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS (CROSSWALK).
- G. INSTALL 6 FT. X 30 FT. QUADRUPOLE (3-6-3) TYPE LOOP DETECTOR ENCASED IN 1/4 IN. FLEXIBLE TUBING.
- H. INSTALL 1 IN. LIQUID-TIGHT, FLEXIBLE NON-METALIC ELECTRICAL CONDUIT (DETECTOR WIRE SLEEVE).
- I. INSTALL 1 IN. GALVANIZED STEEL ELECTRICAL CONDUIT (DETECTOR WIRE SLEEVE).
- J. INSTALL HANDHOLE.
- K. INSTALL 3 IN. SCHEDULE 80, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT - TRENCHED.
- L. INSTALL 4 IN. SCHEDULE 80, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT - BORED.
- M. PROPOSED UNDERGROUND FEED.
- N. INSTALL 4 IN. SCHEDULE 80, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT - TRENCHED.
- O. INSTALL 4 IN. PVC END-CAP.
- P. INSTALL 6 FT. X 6 FT. LOOP DETECTOR ENCASED IN 1/4 IN. FLEXIBLE TUBING (3 TURNS).
- Q. INSTALL SPAN WIRE, SIGNAL HEADS, SIGNS, AND ELECTRICAL CABLE TO MAST ARM STEEL POLES.

### GENERAL NOTES

1. FINAL GEOMETRICS AND GRADES SHALL BE CONFIRMED PRIOR TO THE INSTALLATION OF SIGNAL EQUIPMENT.
2. LOOP DETECTORS AND CONDUITS SHALL BE INSTALLED PRIOR TO THE INSTALLATION OF PAVEMENT MARKINGS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE UTILITY COMPANIES TO VERIFY THE LOCATION OF ALL UTILITIES.
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 WILL BE INSTALLED AS PART OF THE HIGHWAY CONTRACT.
5. ALL LUMINAIRES MUST BE FULL CUT OFF.
6. WHEN INSTALLING THE SIGNAL HEADS, THE CONTRACTOR MUST LEAVE ENOUGH CABLE TO RELOCATE THEM FOR MAINTENANCE OF TRAFFIC.
7. REFER TO PAGES SN-2.1 AND SN-2.2 FOR PAVEMENT MARKING DETAILS.

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES:	
OVERHEAD ELECTRIC	— OH E —
OVERHEAD TELEPHONE	— OH T —
OVERHEAD CABLE TELEVISION	— OH CTV —
ELECTRIC	— E —
TELEPHONE	— T —
GAS	— G —
WATER	— W —
SANITARY SEWER	— SAN. S —
STORM DRAIN	— SD —

### NEMA PHASING



### PHASING NOTES:

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

### SIGNAL HEADS

1, 2, 3, 4, 5, 6



12 in.

(FUTURE) EAST ST.

EAST ST.

EAST SOUTH ST.

(REFER TO NOTE FOR LOCATION)

SEE SHEET IC-1 FOR PROPOSED INTERCONNECT

SG-1



REVISIONS:	APPROVALS:
5 RED LINE REVISION NO. 5 JANUARY 2001	<i>[Signature]</i> 1-14-99 CHIEF SIGNAL DESIGN SECTION D. Zaleski
	ASST. DISTRICT ENGINEER TRAFFIC
	<i>[Signature]</i> 1/14/99 CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
	<i>[Signature]</i> 1/14/99 DIRECTOR OFFICE OF TRAFFIC & SAFETY

MDOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety			
TRAFFIC ENGINEERING DESIGN DIVISION LOG MILE #			
DRAWN BY: CPT		EAST STREET @ EAST SOUTH STREET	
DES. BY: DKA		SIGNAL PLAN	
CHK. BY: BJK M.R.L.		COUNTY: FREDERICK	
DATE: NOVEMBER, 1998	F.A.P. NO. SEE TITLE SHEET	TS/STD. NO.: TS 3860	SHEET NO. 44 OF 68
SCALE: 1"=20'	S.H.A. NO. SEE TITLE SHEET		