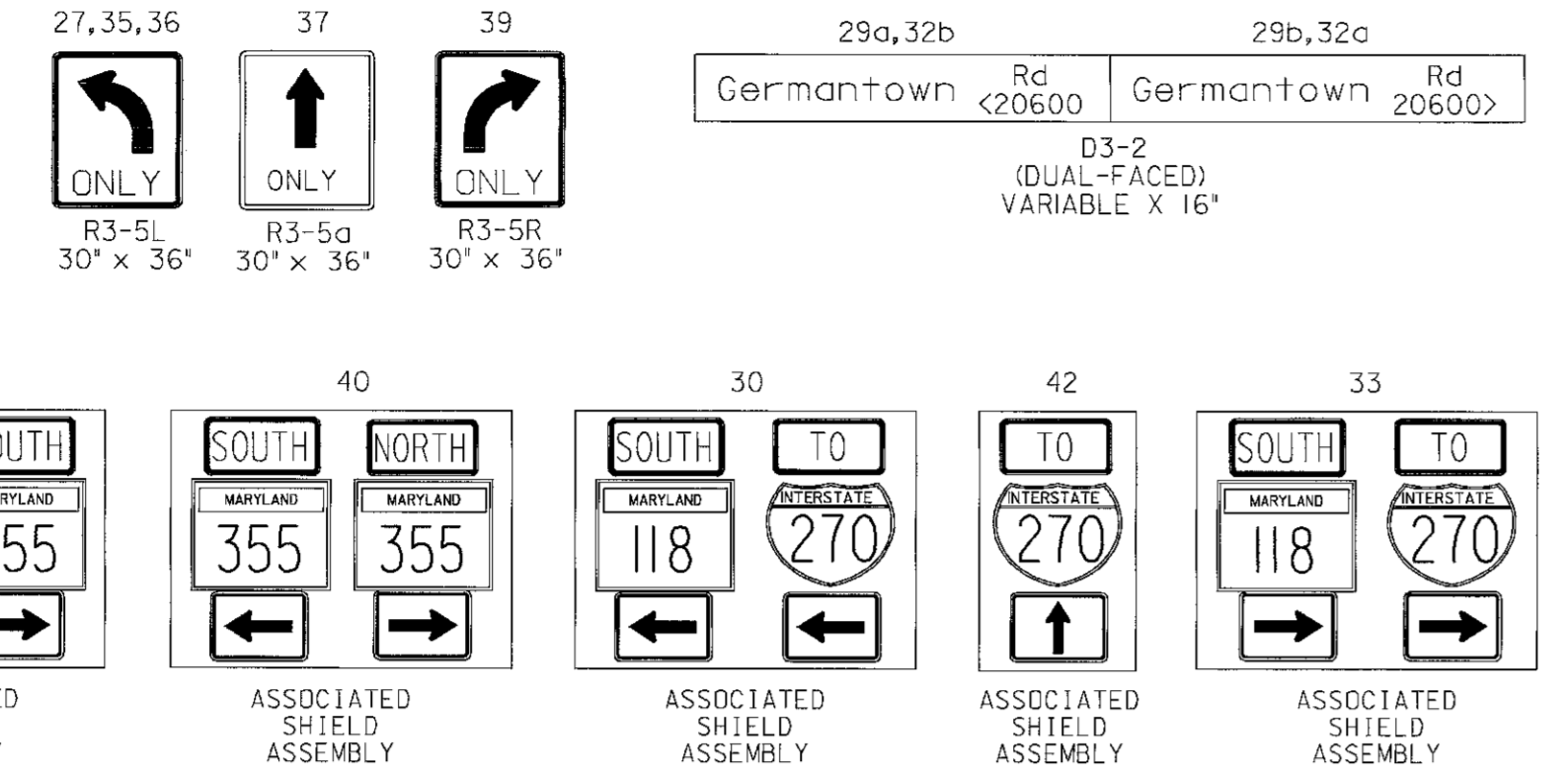
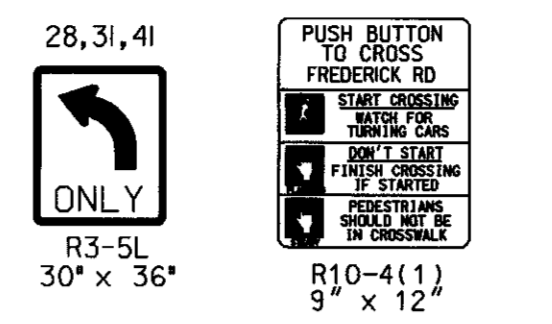


MD 355 IS CONSIDERED TO RUN IN A NORTH SOUTH DIRECTION

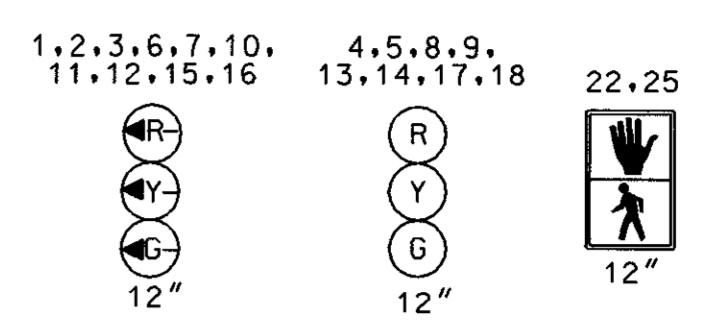
**EXISTING SIGNS**



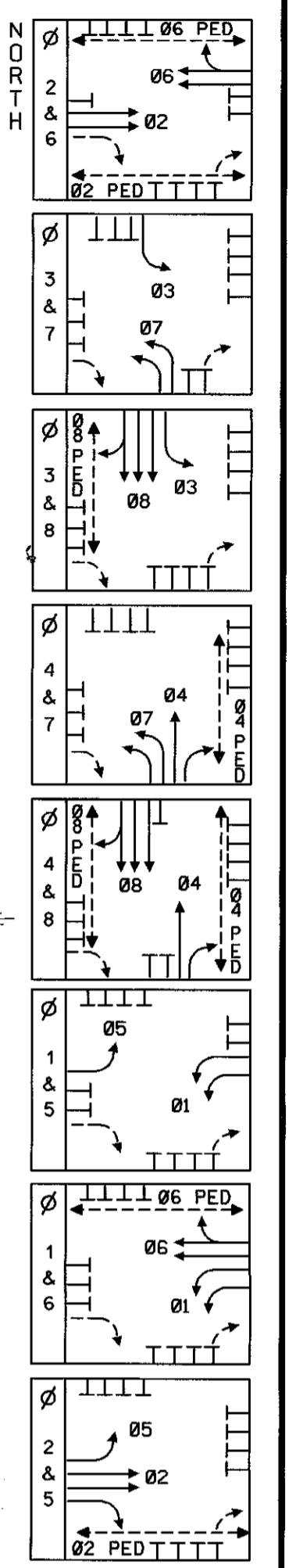
**PROPOSED SIGNS**



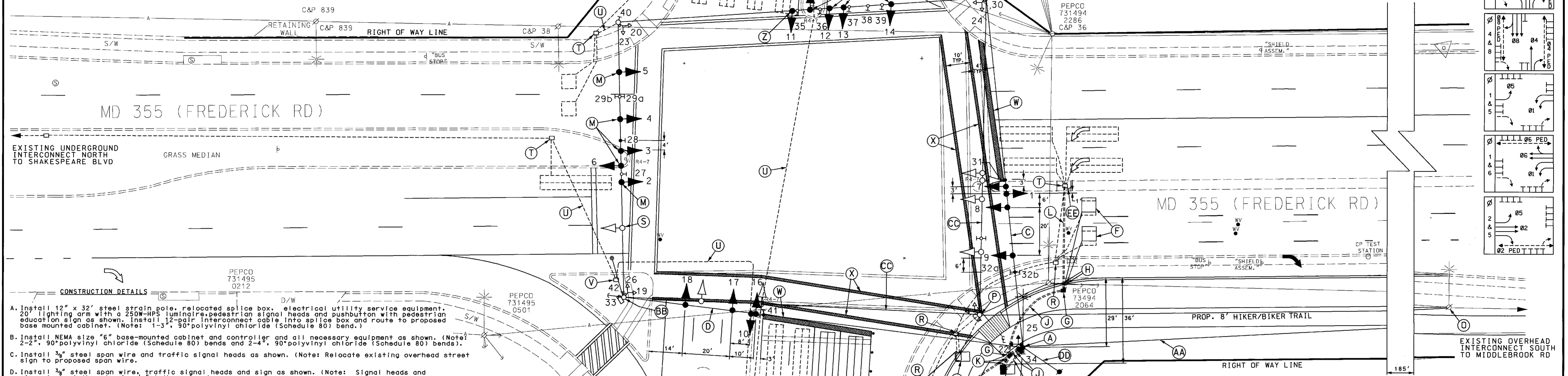
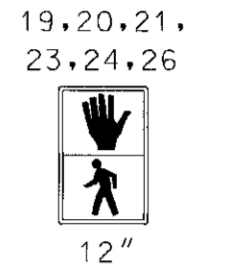
**PROPOSED SIGNALS**



**PHASING**



**EXISTING SIGNALS**



- CONSTRUCTION DETAILS**
- A. Install 12" x 32" steel strain pole, relocated splice box, electrical utility service equipment, 20' lighting arm with a 250W-HPS luminaire, pedestrian signal heads and pushbutton with pedestrian education sign as shown. Install 12-pair interconnect cable into splice box and route to proposed base mounted cabinet. (Note: 1-3", 90° polyvinyl chloride (Schedule 80) bend.)
  - B. Install NEMA size #6 base-mounted cabinet and controller and all necessary equipment as shown. (Note: 2-2", 90° polyvinyl chloride (Schedule 80) bends and 2-4", 90° polyvinyl chloride (Schedule 80) bends.)
  - C. Install 3/4" steel span wire and traffic signal heads as shown. (Note: Relocate existing overhead street sign to proposed span wire.)
  - D. Install 3/4" steel span wire, traffic signal heads and sign as shown. (Note: Signal heads and signs to be tethered using 1/4" tether wire.)
  - E. Install 6' x 30' loop detector encased in 1/4" flexible tubing quadruple type (3-6-3).
  - F. Install 6' x 6' loop detector encased in 1/4" flexible tubing (4-turns).
  - G. Install handhole.
  - H. Install 1" liquid tight flexible non-metallic electrical conduit (detector wire sleeve).
  - J. Install 3" polyvinyl chloride electrical conduit (Schedule 80) (trenched).
  - K. Install 4" polyvinyl chloride electrical conduit (Schedule 80) (trenched).
  - L. Install 4" polyvinyl chloride electrical conduit (Schedule 80) (bored).
  - M. Remove existing signal head and install black faced signal head in same location. (Note: Install new signal head wiring. See General Information Sheet).
  - N. Pull back existing 50-pair interconnect cable and 12-pair interconnect cable from existing cabinet to this handhole and reroute into proposed cabinet. (Note: Existing coiled interconnect cable in several adjacent handholes must be utilized to reroute the cables to the proposed cabinet).
  - O. Pull back existing interconnect cable from splice cabinet to Pepco pole and reroute to proposed strain pole with splice cabinet.
  - P. Remove existing strain pole, foundation 12 in. below grade, and all attached signal equipment. (Note: Splice box to be relocated onto proposed strain pole. See Detail "A").
  - Q. Remove existing cabinet and controller and foundation 12 in. below grade. Cabinet and controller shall be delivered to Montgomery County Dept. of Public Works.
  - R. Remove existing handhole. Cap and abandon existing conduit.
  - S. Remove existing signal head.
  - T. Splice existing loop wires to proposed 4-conductor Canoga electrical cables and route back to proposed base mounted controller and cabinet.
  - U. Use existing conduit.
  - V. Use existing handhole.
  - W. Install 24" white, heat applied permanent preformed thermoplastic pavement marking (stopline). Remove existing stopline.
  - X. Install 12" white, heat applied permanent preformed thermoplastic pavement marking (crosswalk). Remove existing crosswalk.
  - Y. Install 2" polyvinyl chloride electrical conduit (Schedule 80) (trenched) for electrical service.
  - Z. Remove existing signal head and install black faced signal head in same location. Tether to existing tether wire. (Note: Install new signal head wiring. See General Information Sheet).
  - AA. Rerouted overhead interconnect cable.
  - BB. Install temporary guy wire onto existing strain pole. (Note: Guy wire is to be removed once existing strain pole on southwest quadrant has been removed).
  - CC. Remove existing span wire and all attached equipment.
  - DD. Proposed overhead electrical service by PEPCO.
  - EE. Remove and replace concrete median section when boring conduit.
  - FF. Install 36" flexible post with reflective tape as shown. (Flexible posts are to be installed from the stopline at MD 355 west to Cider Barrel Blvd. 2' off the edge line).

**GENERAL NOTES:**

1. The loop detectors and conduit are to be installed prior to the installation of the pavement markings.
2. All underground 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 immediately so that the conflict may be resolved.
3. All traffic signal foundations shall be installed at the final sidewalk or curb grade for closed sections, highest roadway profile grade for open sections, to meet clearances as specified in MD 818.01, MD 818.02, MD 818.03 & MD 818.04. The contractor shall verify ultimate grades prior to the installation of all signal equipment.

**STREET TRAFFIC STUDIES, LTD.**  
400 Crick Hwy., #100  
Gaithersburg, MD 20878  
Tel: (410) 950-5500  
Fax: (410) 950-6637  
4633.dgn

REVISIONS	APPROVALS				
	<table border="1"> <tr> <td>TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION</td> </tr> <tr> <td>ASST. CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION</td> </tr> <tr> <td>CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION</td> </tr> <tr> <td>DIRECTOR, TRAFFIC &amp; SAFETY</td> </tr> </table>	TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION	ASST. CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION	DIRECTOR, TRAFFIC & SAFETY
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DIRECTOR, TRAFFIC & SAFETY					
<p>7/16/04 Relocate pole and cabinet on SW quad due to road widening SW M996M82 RRZ</p>	<p><b>ORIGINAL ON FILE</b></p>				

**MARYLAND DOT - STATE HIGHWAY ADMINISTRATION**  
Office of Traffic & Safety  
**TRAFFIC ENGINEERING DESIGN DIVISION**  
MD 118 (GERMANTOWN RD) AND  
MD 355 (FREDERICK RD)

DRAWN BY: R.E.S.	F.A.P. NO.	TS. NO.
CHECKED BY: Z.A.S.	S.H.A. NO.	2475A
SCALE: 1" = 20'	COUNTY: MONTGOMERY	T.I.M.S. NO. 0546
DATE: FEBRUARY 1991	LOG MILE: 15011807.39	SHEET NO. 1 OF 3