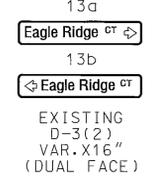
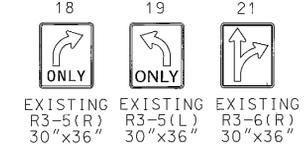


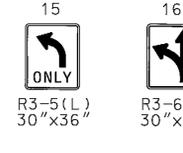
**EXISTING SIGNS**



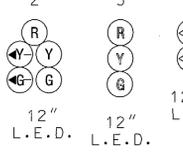
**RELOCATED SIGNS**



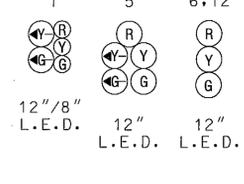
**PROPOSED SIGNS**



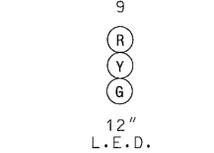
**EXISTING SIGNALS**



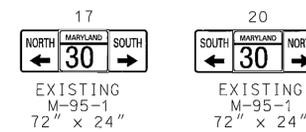
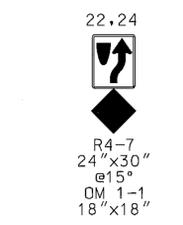
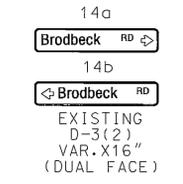
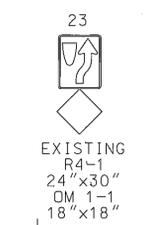
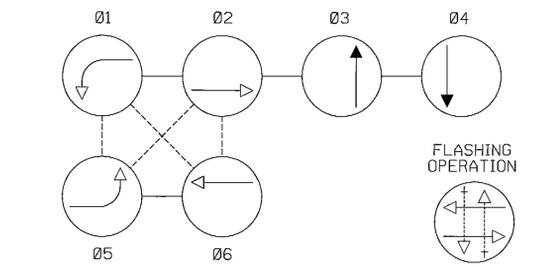
**PROPOSED SIGNALS**



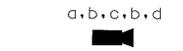
**RELOCATED SIGNAL**



**NEMA PHASING**



**PROPOSED VIDEO DETECTION**

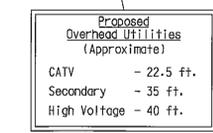
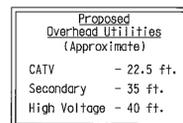


**MD 30 (Hanover Pike)**

**MD 30 (Hanover Pike)**

**CONSTRUCTION DETAILS**

- A. Install base mounted NEMA six cabinet/ controller and all necessary equipment (Note: two-2 in. and two-4 in. SCH 80 conduit bends in base).
- B. Install metered service pedestal for underground electrical service by BGE.
- C. Install 21 ft. (cut from a 27 ft.) steel mast arm pole with a 60 ft. mast arm, vehicle signal heads, and video detection camera. Relocate existing signs (19, 20, 21) as shown. Adjust signal head (7) as necessary due to curvature of road (Note: one 3 in. PVC conduit bend).
- D. Install handhole.
- E. Install 2 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
- F. Install 3 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
- G. Install 4 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
- H. Install 4 in. polyvinyl chloride [Schedule 80] electrical conduit - bored.
- J. Existing Overhead Electrical Service to be removed by BGE.
- K. Install 4 in. conduit with pull string for an underground electrical service by BGE.
- L. Install 2 in. conduit for phone service by Verizon.
- M. Install 24 in. wide pavement marking - white for stop line.
- N. Use existing handhole.
- O. Use existing conduit.
- P. Use existing handhole. Pull back existing micro-loop probe cables and run in new conduit to new cabinet.
- Q. Use existing mast arm pole. Install new vehicle signal head and signs. Relocate existing signal head (9) and signs (17,18). Replace video detection camera with new video detection camera.
- R. Remove existing mast arm pole and all attached equipment. Remove the base 12 in. below grade. Relocate existing sign (14) as shown.
- S. Remove existing cabinet and all attached equipment. Remove the base 12 in. below grade.
- T. Remove existing handhole.
- U. Remove existing mast arm pole and all attached equipment. Relocate existing signs (19,20,21) as shown.
- V. Cap and abandon existing conduit.
- W. Use existing mast arm pole. Replace existing video detection camera with new video detection camera. Re-wire existing luminaire and vehicle signal heads.
- X. Install 27 ft. steel mast arm pole with a 38 ft. mast arm, vehicle signal heads, video detection, relocated sign (14), 15 ft. lighting arm, and 250 W HPS luminaire (Note: one 3 in. PVC conduit bend).
- Y. Replace existing non-invasive micro-loop probes with new non-invasive micro-loop probes (set of 3) with 1000 ft. lead-in cable.
- Z. Utility pole to be relocated by BGE.



**NOTE:**  
Pavement markings and signing along Brodbeck Rd. shall be installed per the approved County roadway plans.

These plans are approved for construction for a period of 1 year from the date of approval. Should construction not begin within this time frame these plans shall be null and void without a review from the Traffic Engineering Design Division.

**GENERAL NOTES**

1. Video camera location/aligning shall be coordinated with the SHA Engineer.
2. The contractor shall verify all proposed pole and cabinet locations prior to installation.
3. Pavement markings detailed are proposed and are to be installed by the Contractor in accordance with MD-SHA standards. All other pavement markings are to be considered as existing.
4. Geometrics shall be confirmed prior to the installation of signal equipment. All traffic signal foundations shall be installed at final sidewalk or curb grade for closed sections, highest roadway profile grade for open sections, to meet clearances as specified in MD 816.03, MD 818.01, MD 818.02, MD 818.04. The contractor shall verify ultimate grades prior to the installation of all signal equipment.
5. All underground and overhead utilities shown on these plans are schematic and are not to be considered complete. The Contractor shall be responsible for notifying all utility companies 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 equipment will occur, the Contractor shall notify the appropriate Project Engineer immediately.
6. All unused cable shall be removed.

**The Traffic Group, Inc.**  
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1-800-583-8411  
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**GEOMETRIC LEGEND**

— EXISTING  
— PROPOSED

**UTILITY LEGEND**

— SD — STORM DRAIN  
— G — GAS MAIN  
— W — WATER MAIN  
— S — SEWER MAIN  
— E — ELECTRIC CABLES  
— A — AERIAL CABLES  
— T — TELEPHONE CABLES  
— F — FIBER-OPTIC

b. Install ground mounted sign in concrete with sleeve per MD 812.05-01 and 812.05-02.

APPROVALS	REVISIONS
TEAM LEADER	① Widening for right turn lanes on SB MD 30 and EB Brodbeck Rd. Change to side street split. SHA No. BW996M82 25 MARCH 24, 2007
ASSIST. DIR. CHIEF	② Geometric modification due to Hampstead by-pass SHA No. CL4166370 July 23, 2007
DIVISION CHIEF	As-Built
OFFICE DIRECTOR	SHA No. BW996M82 September 25, 2000

TRAFFIC SIGNAL PLAN			
SCALE 1" = 20'	DATE March, 2000	CONTRACT NO. BW996M82	
DESIGNED BY Frank Hoeckel	COUNTY CARROLL		
DRAWN BY Frank Hoeckel	LOGMILE 06003004.53		
CHECKED BY	TIMS NO. I590		
FAP NO.	TOD NO. NA		
TS NO. 3989C	DRAWING - OF	SHEET NO. 1 OF 2	

PLOTTED: Thursday, March 24, 2011 AT 09:59 AM  
FILE: F:\2004\2004-0718\DES\TEDD\pSG-F001\_MD30atBrodbeck.dgn