## PROPOSED SIGNS

26,28,29
30-32
R 3-5(L)
30" x 36"

25,27
Cross County Connector
D-3(1)
16" x Var.
[Dual Faced]

35
Shield Assem.
30" x 51"
Blk/Wht

34
Shield Assem.
48" x 75"
Wht/Blk

36
Shield Assem.
48" x 75"
Blk/Wht

33
Shield Assem.
30" x 51"
Blk/Wht

37,38
R 10-4(1)
9" x 12"
(To Be Installed With Pushbutton) to read (TO CROSS Indian Head Hwy)

43-45
Temporary Sign
W 3-3
36" x 36"

Temporary Sign
W 3-3
48" x 48"

39-42

## CONSTRUCTION DETAILS

A. Install base mounted NEMA 6 cabinet/controller, video detection equipment,and necessary equipment for an underground electrical MD-SHA Type 807.05-01 underground electrical service.
B. Install 27 ft. steel mast arm pole with a 70 ft. mast arm, vehicle signal heads, signs, pedestrian signal head, pedestrian pushbutton, pedestrian pushbutton sign, 15 ft. luminaire arm, 250 watt HPS luminaire, and video detection camera (Note: one 3 in. PVC conduit bend).
C. Install 27 ft. steel mast arm pole with a 60 ft. mast arm, vehicle signal heads, signs, and video detection camera (Note: one 3 in. PVC conduit bend).
D. Install 27 ft. steel mast arm pole with a 70 ft. mast arm vehicle signal heads, signs, pedestrian signal heads, pedestrian pushbutton, pedestrian pushbutton sign, and video detection camera (Note: one 3 in. PVC conduit bend).
E. Install handhole.
F. Install 1 in. liquid tight flexible conduit for loop detector lead-in.
G. Install 2 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
H. Install 3 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
J. Install 4 in. polyvinyl chloride [Schedule 80] electrical conduit -trenched.
K. Install 4 in. polyvinyl chloride [Schedule 80] electrical conduit - bored.
L. Install Non-Invasive mirco-loop probe (set of 3).
M. Install micro-loop probe(set of 3).

## PROPOSED SIGNALS

1,2,6-8, 12,13 16-18
3-5, 9-11, 14,15,19,20
12"
12"

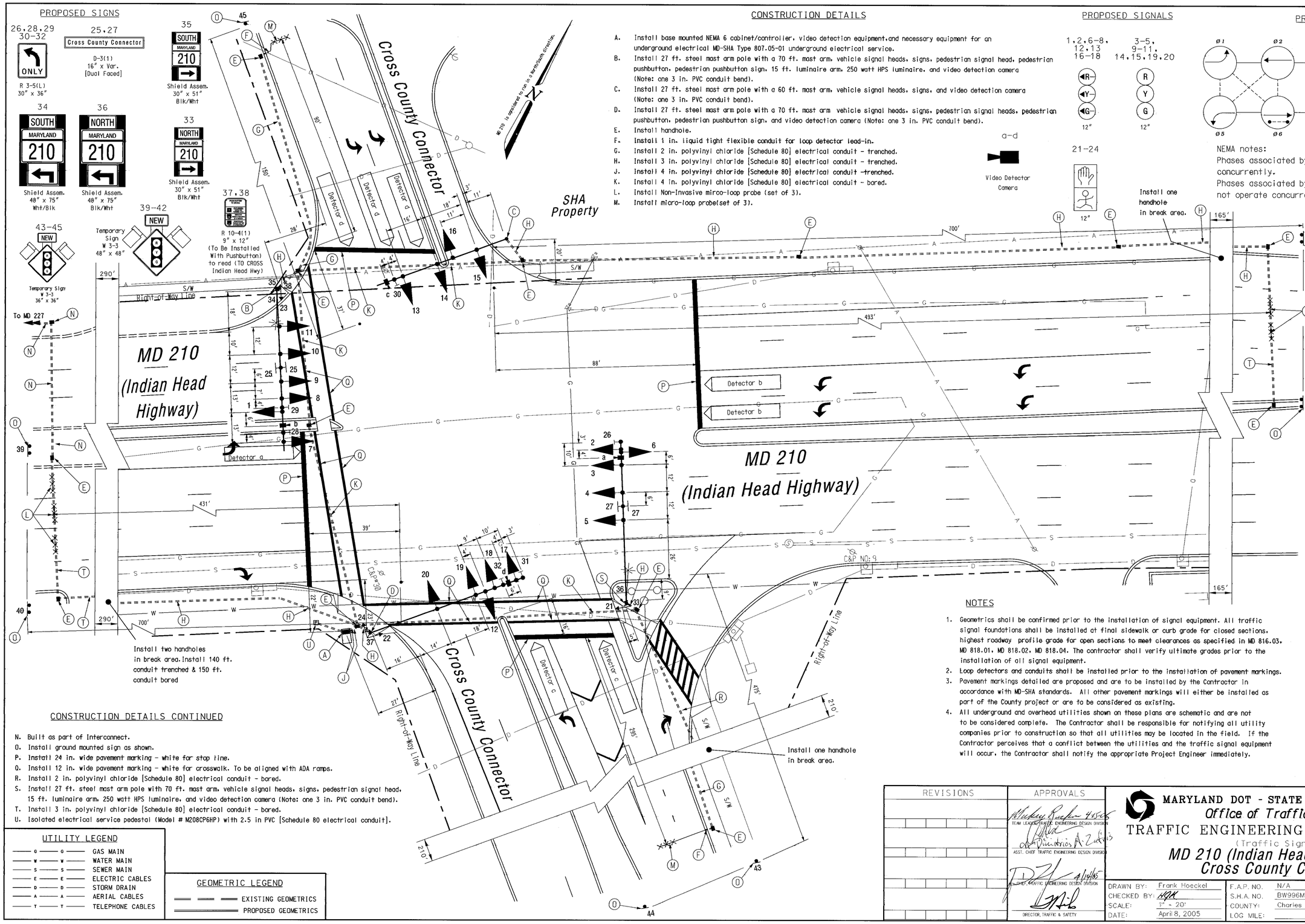
a-d
Video Detector Camera

21-24
12"

## PROPOSED NEMA PHASING

Ø1 Ø2 Ø3 Ø4 Ø4 Alt.
Ø5 Ø6 Ø7 Ø8
FLASHING OPERATION

NEMA notes:
Phases associated by a dashed line will operate concurrently.
Phases associated by a solid line will not operate concurrently.




## NOTES

1. 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.
2. Loop detectors and conduits shall be installed prior to the installation of pavement markings.
3. Pavement markings detailed are proposed and are to be installed by the Contractor in accordance with MD-SHA standards. All other pavement markings will either be installed as part of the County project or are to be considered as existing.
4. 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.

## CONSTRUCTION DETAILS CONTINUED

N. Built as part of Interconnect.
O. Install ground mounted sign as shown.
P. Install 24 in. wide pavement marking - white for stop line.
Q. Install 12 in. wide pavement marking - white for crosswalk. To be aligned with ADA ramps.
R. Install 2 in. polyvinyl chloride [Schedule 80] electrical conduit - bored.
S. Install 27 ft. steel mast arm pole with 70 ft. mast arm, vehicle signal heads, signs, pedestrian signal head, 15 ft. luminaire arm, 250 watt HPS luminaire, and video detection camera (Note: one 3 in. PVC conduit bend).
T. Install 3 in. polyvinyl chloride [Schedule 80] electrical conduit - bored.
U. Isolated electrical service pedestal (Model # M208CP6HP) with 2.5 in PVC [Schedule 80 electrical conduit].

## UTILITY LEGEND

| | |
|---|---|
| G | GAS MAIN |
| W | WATER MAIN |
| S | SEWER MAIN |
| E | ELECTRIC CABLES |
| D | STORM DRAIN |
| A | AERIAL CABLES |
| T | TELEPHONE CABLES |

## GEOMETRIC LEGEND

EXISTING GEOMETRICS
PROPOSED GEOMETRICS


The Traffic Group
The Traffic Group, Inc.
410-931-6600
Fax 410-931-6601


| REVISIONS | APPROVALS |
|---|---|
| | TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION |
| | ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION |
| | 4/14/05 CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION |
| | DIRECTOR, TRAFFIC & SAFETY |

**MARYLAND DOT - STATE HIGHWAY ADMINISTRATION**
*Office of Traffic & Safety*
TRAFFIC ENGINEERING DESIGN DIVISION
(Traffic Signal Plan)
*MD 210 (Indian Head Highway) at Cross County Connector*

| | | | | | |
|---|---|---|---|---|---|
| DRAWN BY: | Frank Hoeckel | F.A.P. NO. | N/A | TS NO. 4375 | SHEET NO. |
| CHECKED BY: | HGK | S.H.A. NO. | BW996M82 | | |
| SCALE: | 1" = 20' | COUNTY: | Charles | T.I.M.S. NO. G-718 | 1 OF 3 |
| DATE: | April 8, 2005 | LOG MILE: | | | |

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