DRILL HOLES

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BORDER REV: DATE: June 1, 2004

NOTE: MD 31 IS CONSIDERED TO RUN IN A NORTH-SOUTH DIRECTION.

PROPOSED SIGNS

16: W Main St ⇨ — 17: ⇦ W Main St — D3-2 (DUAL FACED) VARIABLE X 16"

15,18: LEFT TURN YIELD ON GREEN — R10-12 36"x 42"

19: WMC Dr ⇨ — 20: ⇦ WMC Dr — D3-2 (DUAL FACED) VARIABLE X 16"

23: SOUTH, MARYLAND 31 — M3-4 24"x 12", M1-5 24"x 24", M6-1 21"x 15" — ASSOCIATED SHIELD ASSEMBLY 24" x 51"

22: SOUTH, MARYLAND 31 — M3-4 30"x 15", M1-5 48"x 36", M6-1 30"x 24"

21: NORTH, MARYLAND 31 — M3-2 24"x 12", M1-5 24"x 24", M6-1 21"x 15" — ASSOCIATED SHIELD ASSEMBLY 24" x 51"

24: NORTH, MARYLAND 31 — M3-2 30"x 15", M1-5 48"x 36", M6-1 30"x 24"

S.H.A. RIGHT OF WAY

PROPOSED SIGNALS

1,4 — 2,5 — 3,6,7-10 — 11-14

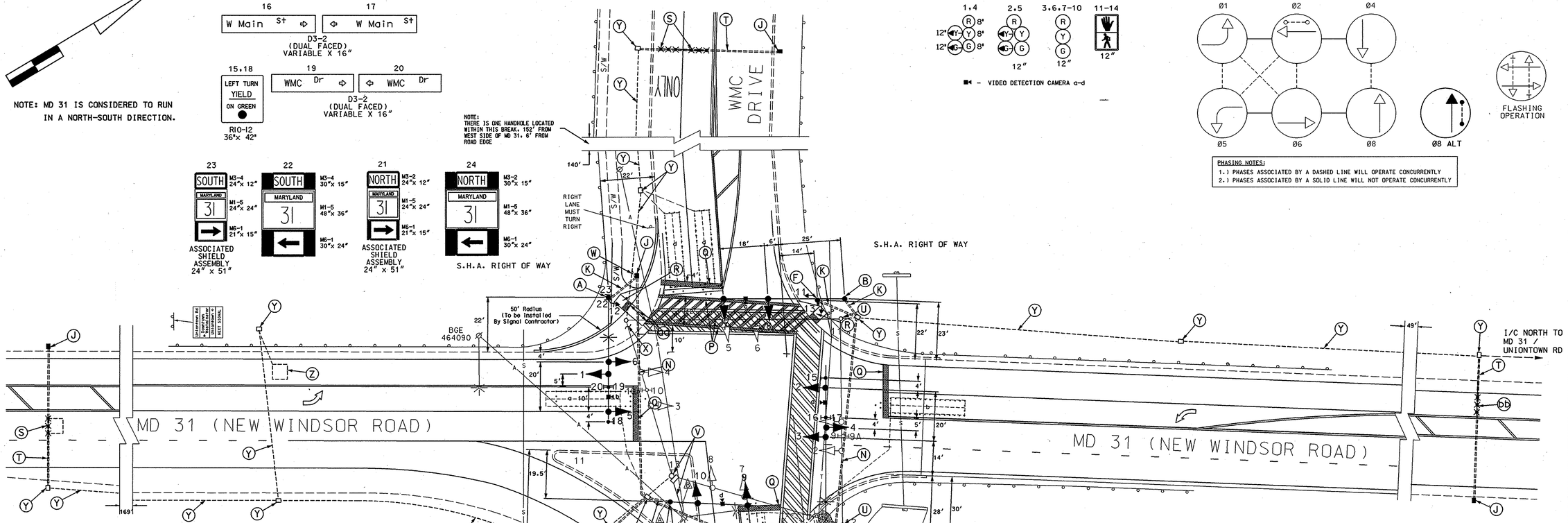
■ - VIDEO DETECTION CAMERA a-d

NEMA PHASING

Ø1 Ø2 Ø4 Ø5 Ø6 Ø8 Ø8 ALT

FLASHING OPERATION

PHASING NOTES:
1.) PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY
2.) PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY



OVERHEAD HEIGHTS (A)

SECONDARY	38'-0"

OVERHEAD HEIGHTS (B)

CATV	21'-0"
NEUTRAL	38'-0"
PRIMARY	44'-0"

CONSTRUCTION DETAILS

A. Install 27' steel pole with single 50' mast arm, traffic signal heads, signs, pedestrian signal heads, 15' lighting arm with a 250W HPS luminaire and video detection camera as shown. (Note: 1-3" 90° polyvinyl chloride (schedule 80) bend.)

B. Install 27' steel pole with single 50' mast arm with traffic signal heads, signs and video detection camera as shown.(Note: 1-3" 90° polyvinyl chloride (schedule 80) bend.)

C. Install 27' steel pole with single 70' mast arm, traffic signal heads, signs, 15' lighting arm with a 250W HPS luminaire and video detection camera as shown. Note: 1-3" 90° polyvinyl chloride (schedule 80) bend.)

D. Install 27' steel pole with single 38' mast arm with traffic signal heads and video detection camera as shown. (Note: 1-3" 90° polyvinyl chloride (schedule 80) bend.)

E. Install 10' pedestal pole with pedestrian signal head, pedestrian education sign (PUSH BUTTON TO CROSS NEW WINDSOR ROAD) and pushbutton. (Note: 1-3" 90° polyvinyl chloride (schedule 80) bend.)

F. Install 10' pedestal pole with pedestrian signal heads, pedestrian education sign (PUSH BUTTON TO CROSS NEW WINDSOR ROAD) and pushbutton. (Note: 1-3" 90° polyvinyl chloride (schedule 80) bend.)

G. Install NEMA size "6" base-mounted cabinet and controller with all necessary equipment as shown.

H. Install metered service pedestal for electrical utility service equipment as shown.

J. Install handhole.

K. Install 3" polyvinyl chloride electrical conduit (Schedule 80) (trenched).

L. Install 4" polyvinyl chloride electrical conduit (Schedule 80) (trenched).

M. Install 2" polyvinyl chloride electrical conduit (Schedule 80) (trenched).

N. Install 4" polyvinyl chloride electrical conduit (Schedule 80) (bored).

O. Install 4" polyvinyl chloride electrical conduit (Schedule 80) (bored) with pull string for power service to base of utility pole for proposed underground electrical service by BGE.

P. Install 12" white heat applied preformed thermoplastic pavement marking. (Crosswalk)

Q. Install 24" white heat applied preformed thermoplastic pavement marking. (stopline)

R. Install proposed handicap ramp with detectable warning surfaces as shown.

S. Install non-invasive microloop probes with 500' lead-in cables.

T. Install 3" polyvinyl chloride electrical conduit (Schedule 80) (bored).

U. Remove existing signal pole, associated wiring and conduit runs associated with this pole.

V. Remove existing pole mounted cabinet, foundation 12" below grade and backfill. (Note: Contractor shall remove overhead service.)

W. Contractor shall cut existing conduit at this point and extend to handhole as shown.

X. Contractor shall install new curb and gutter as shown, remove signal pole and ensure that the existing pavement will be traffic bearing.

Y. Use existing conduit and/or handhole as shown.

Z. Contractor shall disconnect and pullback existing 2 conductor aluminum shielded from pole mounted cabinet and reroute to proposed base-mounted cabinet as shown. (See Wiring diagram for more details)

aa. Install 4' concrete sidewalk.

bb. Install non-invasive microloop probes with 1000' lead-in cables.

GENERAL NOTES:

1. 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.
2. All pavement markings detailed are proposed and are to be installed in accordance with SHA standards.
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 816.03, MD 818.01, MD 818.02, and MD 818.04 The contractor shall verify ultimate grades prior to the installation of all signal equipment.
4. The contractor shall remove all unused wiring.
5. When Contractor is close to completing this project, contact Mr. George Miller of District 7 (301) 624-8144, so that he may coordinate the paving in the southwest quadrant. Once the paving work in this area is done, the crosswalk and stopline will need to be extended to the proposed curb line.
6. All proposed signal equipment will be installed within S.H.A. right of way.

GEOMETRIC LEGEND
PROPOSED
EXISTING

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

AERIAL CABLE	A — A
ELECTRIC	E — E
TELEPHONE	T — T
GAS	G — G
SEWER	S — S
WATER	W — W
CABLE TV	TV — TV

STREET TRAFFIC STUDIES, LTD.
400 Crain Hwy.,NW.
Glen Burnie,MD 21061
Ph (410) 590-5500
Fax (410) 590-6637

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APPROVALS

TEAM LEADER
ASST. DIV. CHIEF
DIVISION CHIEF
OFFICE DIRECTOR

ORIGINAL ON FILE

REVISIONS

E 9-1-05 REBUILD TRAFFIC SIGNAL SHA NO.: ATT175185 JWA
D 4/2003 INSTALL 3" BLIND COUPLING FOR CABINET F741 XX1065385/CL7775177 CJS
C 5/4/99 MODIFY DETECTORS DUE TO NEW GEOMETRICS BW936M82

PLOTTED: @DATETIME@
FILE: @FILE@

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

MD 31 (NEW WINDSOR DRIVE) AND MAIN STREET / WMC DRIVE

SCALE 1"= 20' DATE 1989 CONTRACT NO.

DESIGNED BY
DRAWN BY
CHECKED BY
F.A.P. NO.

COUNTY CARROLL
LOGMILE 06003109.75
TIMS#: G916

DRAWING NO. 171 E - OF

SHEET NO. 1 OF 2

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