DRILL HOLES

BORDER REV: DATE: June 1, 2004

NOTE: MD 189 IS CONSIDERED TO RUN IN A NORTH-SOUTH DIRECTION.

44 W11-2 30" x 30" B/FY — W16-7p(L) 24" x 12" B/FY

45 W11-2 30" x 30" B/FY — W16-7p(L) 24" x 12" B/FY

PROPOSED SIGNS

R10-3(1) 9" x 15" — 36,38 — FALLS ROAD

R10-3(1) 9" x 15" — 37,39 — FALLS ROAD

R10-3(1) 9" x 15" — 40,42 — WOOTTON PKWY

R10-3(1) 9" x 15" — 41,43 — WOOTTON PKWY

PROPOSED LED SIGNALS

1,3,6, 8,9 — 12"

4,10, 14 — 12"

5,11, 17 — 12"

12,13, 15,16 — 12"

18-25 — LED 16" COUNTDOWN PEDESTRIAN SIGNAL HEAD

EXISTING CAMERA

⊗ - SURVEILLANCE CAMERA

EXISTING SIGNALS TO BE REMOVED

2,7 — 12"

NEMA PHASING

Ø1 Ø2 Ø3 Ø4 Ø5 Ø6 Ø7 Ø8

ALT. Ø4 & Ø8

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

EXISTING SIGNS

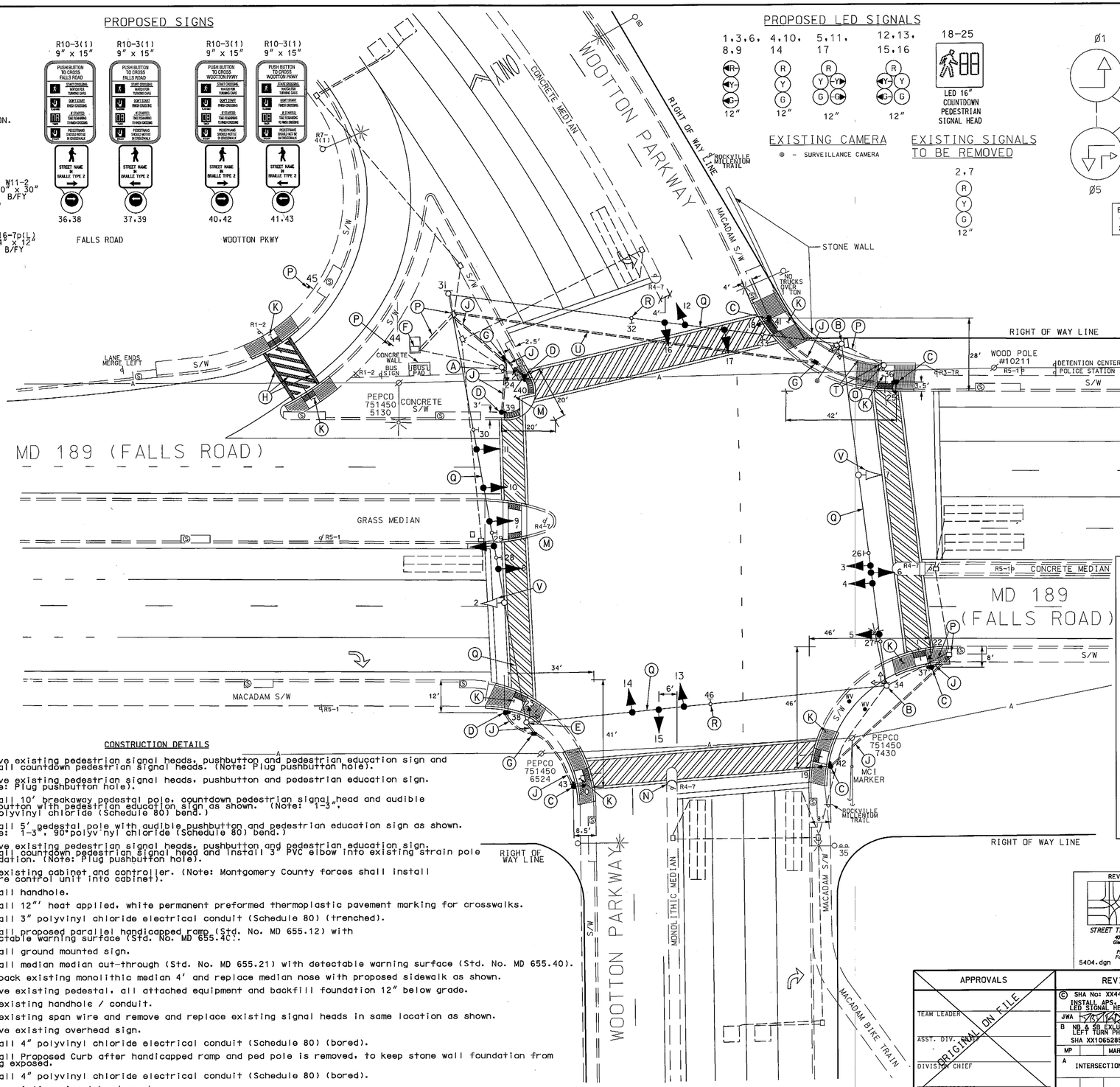
R3-5L 30"X36" — 26,28, 29

R3-5R 30"X36" — 27,30, 33

34 — ASSOCIATED SHIELD ASSEMBLY SIGN 48"x75"

31 — ASSOCIATED SHIELD ASSEMBLY SIGN 30"x51"

35



EXISTING SIGNS TO BE REMOVED

R10-12 30"X36" — LEFT TURN YIELD ON GREEN — 32,46

CONSTRUCTION DETAILS

A. Remove existing pedestrian signal heads, pushbutton and pedestrian education sign and install countdown pedestrian signal heads. (Note: Plug pushbutton hole).

B. Remove existing pedestrian signal heads, pushbutton and pedestrian education sign. (Note: Plug pushbutton hole).

C. Install 10' breakaway pedestal pole, countdown pedestrian signal head and audible pushbutton with pedestrian education sign as shown. (Note: 1-3", 90°polyvinyl chloride (Schedule 80) bend.)

D. Install 5' pedestal pole with audible pushbutton and pedestrian education sign as shown. (Note: 1-3", 90°polyvinyl chloride (Schedule 80) bend.)

E. Remove existing pedestrian signal heads, pushbutton and pedestrian education sign. Install countdown pedestrian signal head and install 3" PVC elbow into existing strain pole foundation. (Note: Plug pushbutton hole).

F. Use existing cabinet and controller. (Note: Montgomery County forces shall install 2-wire control unit into cabinet).

G. Install handhole.

H. Install 12"' heat applied, white permanent preformed thermoplastic pavement marking for crosswalks.

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

K. Install proposed parallel handicapped ramp (Std. No. MD 655.12) with detectable warning surface (Std. No. MD 655.40).

L. Install ground mounted sign.

M. Install median median cut-through (Std. No. MD 655.21) with detectable warning surface (Std. No. MD 655.40).

N. Cut back existing monolithic median 4' and replace median nose with proposed sidewalk as shown.

O. Remove existing pedestal, all attached equipment and backfill foundation 12" below grade.

P. Use existing handhole / conduit.

Q. Use existing span wire and remove and replace existing signal heads in same location as shown.

R. Remove existing overhead sign.

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

T. Install Proposed Curb after handicapped ramp and ped pole is removed, to keep stone wall foundation from being exposed.

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

V. Rmove existing signal head as shown.

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 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.

3. All pavement markings detailed are proposed and are to be installed in accordance with SHA standards. All crosswalks shall be centered on handicap ramps or median cut throughs.

4. Pushbuttons are to be located so that they can be activated by a person in a wheelchair reaching less than 18" from a 60"x 60" level landing area with a cross slope of less than or equal to 2%.

5. The 10' separation between pushbuttons is to be measured from face of pushbutton to face of pushbutton, not center to center of pole.

6. Pushbutton arrows are to be parallel to the crossing for which they are intended.

7. Location of Accessible Pedestrian signal pushbuttons must meet location requirements Of MUTCD Sec. 4E.09 and Fig. 4E.2 and the NCHRP publication, Accessible Pedestrian signals: Guide to Best Practice. If not met, the Contractor is to stop work on pushbutton locations until a design Waiver is obtained, approved by the Director, Office of Traffic and Safety.

8. The contractor shall remove all unused wiring.

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

REVISION "C"

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

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STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

MD 189 AND WOOTTON PARKWAY

ROCKVILLE, MARYLAND

TRAFFIC SIGNAL PLAN

SCALE 1"= 20' DATE 1-2-81 CONTRACT NO. MO619A51

DESIGNED BY P.C.B. COUNTY MONTOMERY
DRAWN BY T.E.L. LOGMILE 15018906.41
CHECKED BY P.C.B. TIMS NO. 1644
F.A.P. NO. TOD NO.

TS NO. 4179C | DRAWING NO. 1 OF 2 | SHEET NO. OF

APPROVALS	
TEAM LEADER	ORIGINAL ON FILE
ASST. DIV. HEAD	
DIVISION CHIEF	
OFFICE DIRECTOR	

REVISIONS					
© SHA No: XX4495185 10/28/08 INSTALL APS, CPS AND LED SIGNAL HEADS TIMS No. 11646					
JWA					
B NB & SB EXCLUSIVE LEFT TURN PHASING SHA XX1065285					
MP		MAR	DAZ	BK	BK
A INTERSECTION RECONSTRUCTION					

PLOTTED: THURSDAY, DECEMBER 04, 2008 AT 10:03 AM
FILE: A:\5404.DGN

TOD NO: XX4495-21
SHA NO:MO205A54/B54
NO 189@ WOOTTON PKWY