DRILL HOLES

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BORDER REV: DATE: June 1, 2004

MD 187 IS ASSUMED TO RUN IN A NORTH - SOUTH DIRECTION

PROPOSED SIGNS

R10-4(1) MOD 9" x 15" — 29
R10-4(1) MOD 9" x 15" — 27,28,30
MD 187 (OLD GEORGETOWN RD)

R10-4(1) MOD 9" x 15" — 31
R10-4(1) MOD 9" x 15" — 32
SOUTH DRIVE

R10-4(1) MOD 9" x 15" — 33
R10-4(1) MOD 9" x 15" — 34
GREENTREE ROAD

22 — SOUTH / MARYLAND 187 — M3-3 24"x 12", M1-5 30"x 24", M6-1 21"x 15"
ASSOCIATED SHIELD ASSEMBLY 30" x 51"

23 — NORTH / MARYLAND 187 — M3-1 30"x 15", M1-5 48"x 36", M6-1 30"x 24"
ASSOCIATED SHIELD ASSEMBLY 48" x 75"

21a — Greentree Rd <5500 ⇨
21b — ⇦ Greentree Rd 5500>
D3-2 VARIABLE X 16" DUAL FACED

20a — South Dr 5400> ⇨
20b — ⇦ South Dr <5400
D3-2 VARIABLE X 16" DUAL FACED

25 — NO TURN ON RED — R10-11b 24" x 24"

24,26 — ONLY — R3-5R 30"x 36"

PROPOSED SIGNALS

1,2,4,5 — 12"
3,6, 7,9,10 — 12"
8 — 12"

11-18 — LED 16" COUNTDOWN PEDESTRIAN SIGNAL HEAD

▶■ - VIDEO DETECTION CAMERA (a-d)

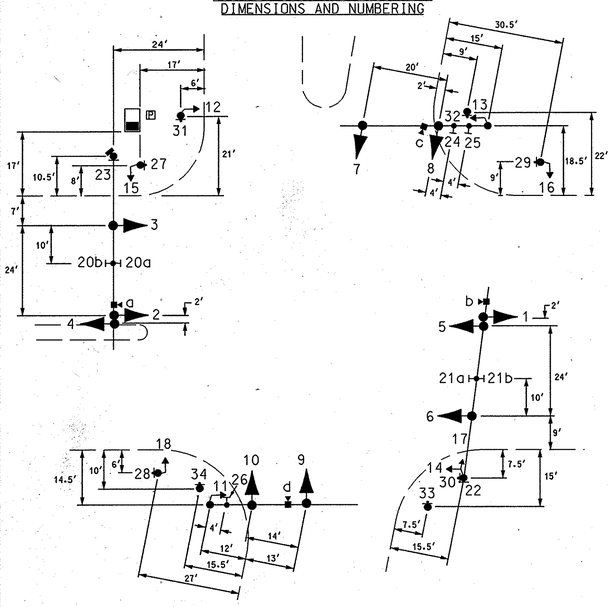
NEMA PHASING

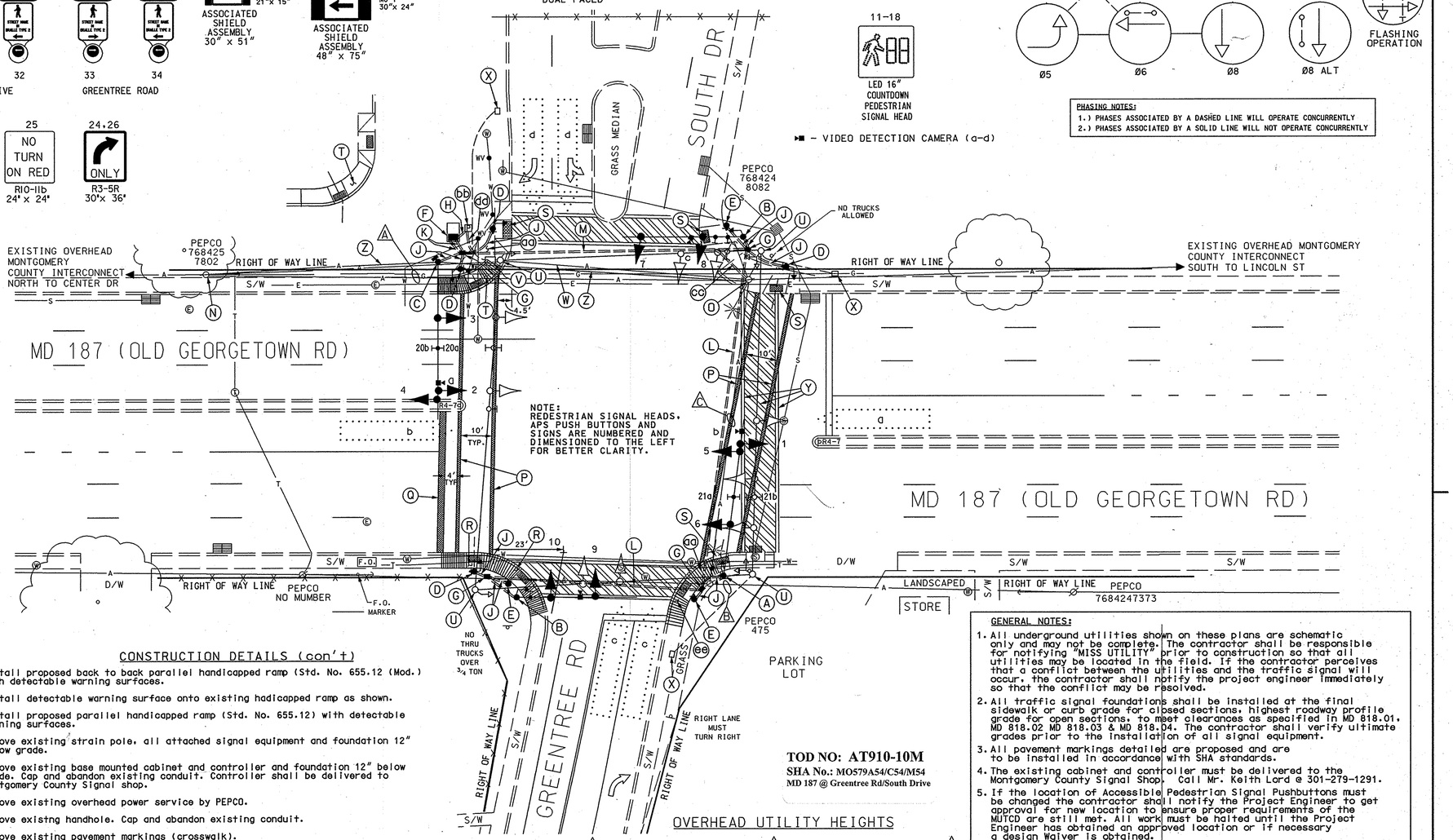
Ø1, Ø2, Ø4, Ø4 ALT, Ø5, Ø6, Ø8, Ø8 ALT

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

SIGNAL, SIGN AND EQUIPMENT DIMENSIONS AND NUMBERING





CONSTRUCTION DETAILS

A. Install 15' special "T" steel pole with a 50' mast arm, traffic signal heads, sign, video camera, Countdown pedestrian signal heads and audible pushbutton with pedestrian education signs as shown. (Note: 1-3", 90°polyvinyl chloride (Schedule 80) bend.)

B. Install 15' special "T" steel pole with a 38' mast arm, traffic signal heads, sign(s), video camera and Countdown pedestrian signal head as shown. (Note: 1-3", 90°polyvinyl chloride (Schedule 80) bend.)

C. Install 15' special "T" steel pole with a 50' mast arm, traffic signal heads, sign, video camera, 3" weatherhead and interconnect splice cabinet as shown. (Note: 1-3", 90°polyvinyl chloride (Schedule 80) bend.)

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

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

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

G. Install handhole.

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

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

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

L. Install 2-4" polyvinyl chloride electrical conduit (Schedule 80) (slotted).

M. Install 2-4" polyvinyl chloride electrical conduit (Schedule 80) (slotted). (Note: Install 3" PVC conduit in same slot for power service)

N. Pull back existing interconnect cable to this pole and reroute to new base mounted controller.

O. Pull back existing interconnect cable to this pole and reroute to new splice box.

P. Install 12" white, heat applied permanent preformed thermoplastic pavement marking. (crosswalk)

Q. Install 12" white, heat applied permanent preformed thermoplastic pavement marking. (stopline)

CONSTRUCTION DETAILS (con't)

R. Install proposed back to back parallel handicapped ramp (Std. No. 655.12 (Mod.) with detectable warning surfaces.

S. Install detectable warning surface onto existing hadicapped ramp as shown.

T. Install proposed parallel handicapped ramp (Std. No. 655.12) with detectable warning surfaces.

U. Remove existing strain pole, all attached signal equipment and foundation 12" below grade.

V. Remove existing base mounted cabinet and controller and foundation 12" below grade. Cap and abandon existing conduit. Controller shall be delivered to Montgomery County Signal shop.

W. Remove existing overhead power service by PEPCO.

X. Remove existng handhole. Cap and abandon existing conduit.

Y. Remove existing pavement markings (crosswalk).

Z. Rerouted overhead interconnect. (See Construction Details "N" and "O").

aa. Remove existing sidewalk and re-install after the installation of the signal equipment.

bb. Install metered service pedestal.

cc. Install 3" polyvinyl chloride electrical conduit (Schedule 80) (trenched) with 3" bend for electrical service by PEPCO. (See wiring diagram on General Information Sheet)

dd. Install 3" polyvinyl chloride electrical conduit (Schedule 80) (trenched) at for electrical service by PEPCO. (See wiring diagram on General Information Sheet)

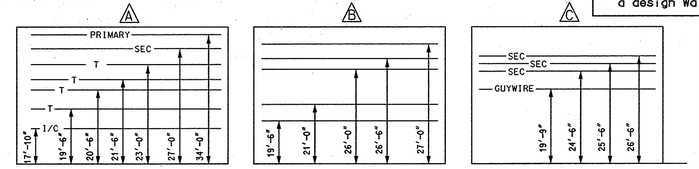
ee. Install 8" of proposed sidewalk @ 12:1 slope to bring existing handicapped ramp to current ADA standards.

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 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.
3. All pavement markings detailed are proposed and are to be installed in accordance with SHA standards.
4. The existing cabinet and controller must be delivered to the Montgomery County Signal Shop. Call Mr. Keith Lord @ 301-279-1291.
5. If the location of Accessible Pedestrian Signal Pushbuttons must be changed the contractor shall notify the Project Engineer to get approval for new location to ensure proper requirements of the MUTCD are still met. All work must be halted until the Project Engineer has obtained an approved location or if necessary a design Waiver is obtained.

TOD NO: AT910-10M
SHA No.: MO579A54/C54/M54
MD 187 @ Greentree Rd/South Drive

OVERHEAD UTILITY HEIGHTS



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 "B"

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
B — SHA NO. AT9105185 10/18/06 — RECONSTRUCT WITH MAST ARMS ADD SB EP LT & APS/ALL AROUND — RRZ
A — 2-25-91 — REDRAW/ASBUILD AND REPLACE DEFECTIVE LOOPS SHA # M-650-501-377 — RRZ

PLOTTED: TUESDAY, DECEMBER 12, 2006 AT 2:48:02 PM
FILE: 5054.DGN

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

MD 187 (OLD GEORGETOWN ROAD) AND SOUTH DRIVE / GREENTREE ROAD

TRAFFIC SIGNAL PLAN

SCALE 1"= 20' DATE 10-12-90 CONTRACT NO.

DESIGNED BY W J NIES
DRAWN BY R R ZACHERL
CHECKED BY
F.A.P. NO.
COUNTY MONTGOMERY
LOGMILE 15018701.42
TIMS NO. F913
TOD NO.

TS NO. 3138B | DRAWING NO. 1 OF 2 | SHEET NO. OF