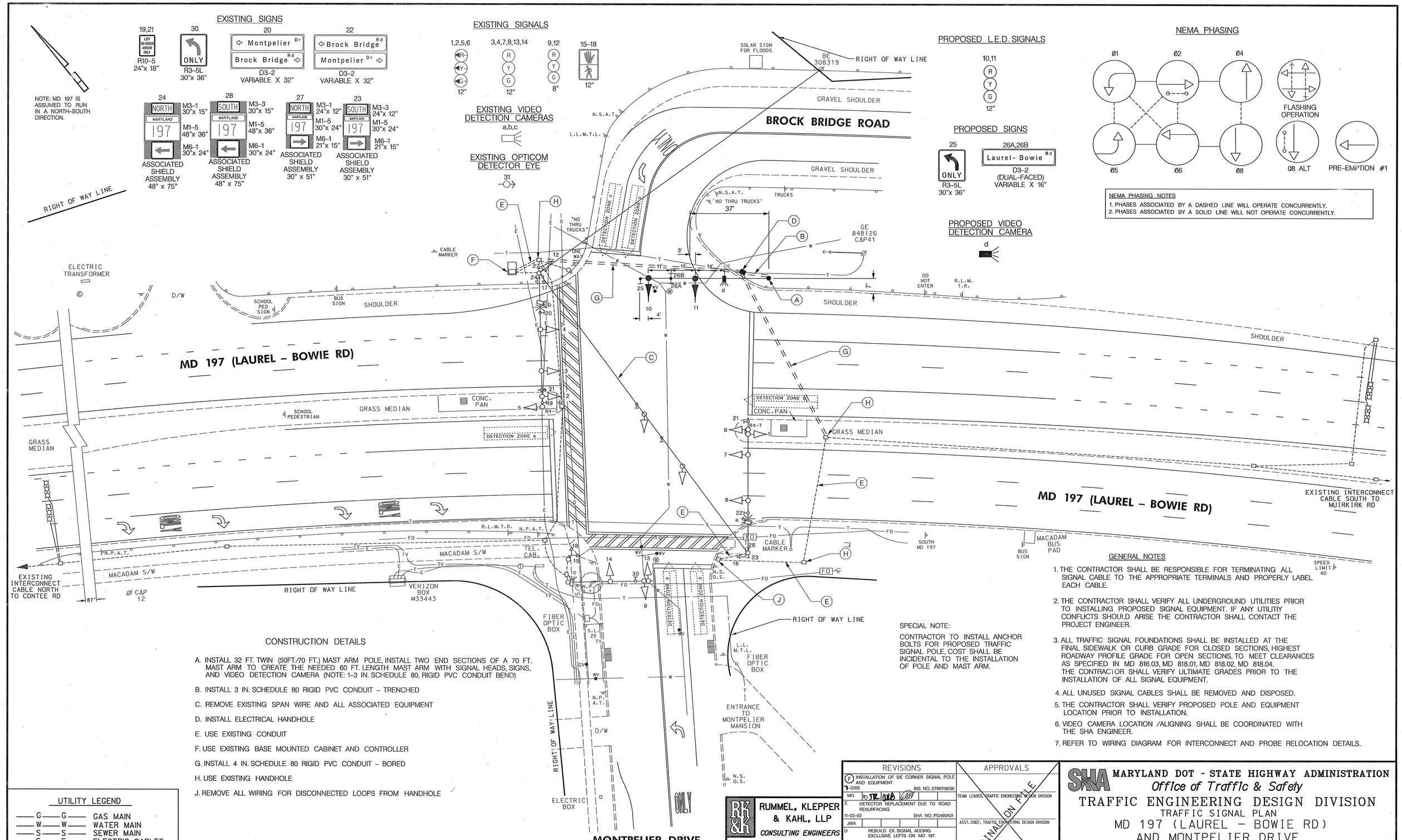
EXISTING SIGNS
19,21
LEFT ON GREEN ARROW ONLY
R10-5
24"x 18"
30
ONLY
R3-5L
30"x 36"
20
Montpelier Dr
Brock Bridge Rd
D3-2
VARIABLE X 32"
22
Brock Bridge Rd
Montpelier Dr
D3-2
VARIABLE X 32"
NOTE: MD 197 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.
24
NORTH
MARYLAND
197
M3-1 30"x 15"
M1-5 48"x 36"
M6-1 30"x 24"
ASSOCIATED SHIELD ASSEMBLY 48" x 75"
28
SOUTH
M3-3 30"x 15"
M1-5 48"x 36"
M6-1 30"x 24"
ASSOCIATED SHIELD ASSEMBLY 48" x 75"
27
NORTH
M3-1 24"x 12"
M1-5 30"x 24"
M6-1 21"x 15"
ASSOCIATED SHIELD ASSEMBLY 30" x 51"
23
SOUTH
M3-3 24"x 12"
M1-5 30"x 24"
M6-1 21"x 15"
ASSOCIATED SHIELD ASSEMBLY 30" x 51"
RIGHT OF WAY LINE
EXISTING SIGNALS
1,2,5,6
R
Y
G
12"
3,4,7,8,13,14
R
Y
G
12"
9,12
R
Y
G
8"
15-18
12"
EXISTING VIDEO DETECTION CAMERAS
a,b,c
EXISTING OPTICOM DETECTOR EYE
31
SOLAR SIGN FOR FLOODS
BE 308319
RIGHT OF WAY LINE
GRAVEL SHOULDER
BROCK BRIDGE ROAD
N.S.A.T.
L.L.M.T.L.
GRAVEL SHOULDER
N.S.A.T.
'NO THRU TRUCKS'
TRUCKS
37'
"NO THRU TRUCKS"
DETECTION ZONE c
DETECTION ZONE b
CABLE MARKER
ONE WAY
GE 848126 C&P41
ELECTRIC TRANSFORMER
D/W
SCHOOL PED SIGN
BUS SIGN
SHOULDER
DO NOT ENTER
R.L.M.T.R.
SHOULDER
MD 197 (LAUREL - BOWIE RD)
SCHOOL PEDESTRIAN
GRASS MEDIAN
CONC. PAN
DETECTION ZONE a
DETECTION ZONE A
CONC. PAN
GRASS MEDIAN
GRASS MEDIAN
MD 197 (LAUREL - BOWIE RD)
EXISTING INTERCONNECT CABLE SOUTH TO MUIRKIRK RD
R.L.M.T.R.
N.P.A.T.
MACADAM S/W
TEL. CAB.
CABLE MARKER
SOUTH MD 197
BUS SIGN
MACADAM BUS PAD
SPEED LIMIT 40
N.P.A.T.
MACADAM S/W
EXISTING INTERCONNECT CABLE NORTH TO CONTEE RD
C&P 12
VERIZON BOX #33443
RIGHT OF WAY LINE
FIBER OPTIC BOX
S.L. 25
DETECTION ZONE
DETECTION ZONE
N.S. O.S.
RIGHT OF WAY LINE
L.L. M.T.L.
FIBER OPTIC BOX
ENTRANCE TO MONTPELIER MANSION
N.P. A.T.
D/W
RIGHT OF WAY LINE
N.S. O.S.
ELECTRIC BOX
ONLY
MONTPELIER DRIVE
PROPOSED L.E.D. SIGNALS
10,11
R
Y
G
12"
PROPOSED SIGNS
25
ONLY
R3-5L
30"x 36"
26A,26B
Laurel- Bowie Rd
D3-2
(DUAL-FACED)
VARIABLE X 16"
PROPOSED VIDEO DETECTION CAMERA
d
NEMA PHASING
Ø1
Ø2
Ø4
Ø5
Ø6
Ø8
FLASHING OPERATION
08 ALT
PRE-EMPTION #1
NEMA PHASING NOTES
1. PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.
2. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
GENERAL NOTES
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
2. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITIY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
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, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
4. ALL UNUSED SIGNAL CABLES SHALL BE REMOVED AND DISPOSED.
5. THE CONTRACTOR SHALL VERIFY PROPOSED POLE AND EQUIPMENT LOCATION PRIOR TO INSTALLATION.
6. VIDEO CAMERA LOCATION /ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
7. REFER TO WIRING DIAGRAM FOR INTERCONNECT AND PROBE RELOCATION DETAILS.
SPECIAL NOTE:
CONTRACTOR TO INSTALL ANCHOR BOLTS FOR PROPOSED TRAFFIC SIGNAL POLE, COST SHALL BE INCIDENTAL TO THE INSTALLATION OF POLE AND MAST ARM.
CONSTRUCTION DETAILS
A. INSTALL 32 FT. TWIN (50FT./70 FT.) MAST ARM POLE, INSTALL TWO END SECTIONS OF A 70 FT. MAST ARM TO CREATE THE NEEDED 60 FT. LENGTH MAST ARM WITH SIGNAL HEADS, SIGNS, AND VIDEO DETECTION CAMERA (NOTE: 1-3 IN. SCHEDULE 80, RIGID PVC CONDUIT BEND)
B. INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT – TRENCHED
C. REMOVE EXISTING SPAN WIRE AND ALL ASSOCIATED EQUIPMENT
D. INSTALL ELECTRICAL HANDHOLE
E. USE EXISTING CONDUIT
F. USE EXISTING BASE MOUNTED CABINET AND CONTROLLER
G. INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT – BORED
H. USE EXISTING HANDHOLE
J. REMOVE ALL WIRING FOR DISCONNECTED LOOPS FROM HANDHOLE
UTILITY LEGEND
G GAS MAIN
W WATER MAIN
S SEWER MAIN
E ELECTRIC CABLES
A AERIAL CABLES
T TELEPHONE CABLES
RUMMEL, KLEPPER & KAHL, LLP
CONSULTING ENGINEERS
81 MOSHER STREET
BALTIMORE, MARYLAND 21217
TEL: (410) 728-2900
FAX: (410) 383-3270
REVISIONS
F INSTALLATION OF S/E CORNER SIGNAL POLE AND EQUIPMENT
7-2005
INS. NO.:2786116036
MO
E DETECTOR REPLACEMENT DUE TO ROAD RESURFACING
11-03-03
SHA NO.:PG480A21
JWA
D REBUILD EX. SIGNAL ADDING EXCLUSIVE LEFTS ON MD 197.
9-10-02
SHA NO.: 1065285
RRZ
C REVISE POLE LOCATION
1-1-94
AW-680-501-085
BT
APPROVALS
ORIGINAL ON FILE
TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION
ASST. CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
DIRECTOR, TRAFFIC & SAFETY
SHA
MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
TRAFFIC SIGNAL PLAN
MD 197 (LAUREL - BOWIE RD)
AND MONTPELIER DRIVE
DRAWN BY: BRUCE THOMPSON
CHECKED BY:
SCALE: 1"= 20'
DATE: 10-10-83
F.A.P. NO.
S.H.A. NO. AW-680-501-085
COUNTY: PRINCE GEORGES
LOG MILE: 16019712.99
TS NO. 2546F
T.I.M.S. NO. H089
SHEET NO. 1 OF 2
104-134-11