DRILL HOLES
DRILL HOLES
DRILL HOLES
BORDER REV: DATE: Moment 12/20/2007
BY: Aaron Hottenstein Division: P068 Highway TrafficGMA Emp

US 1 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

PROPOSED SIGNAL HEADS

2,3 — 12" — "BLACK FACE"

1,4 — 12" — "BLACK FACE"

EXISTING SIGNAL HEADS TO REMAIN

8,9 — 12"
5,6 — 12"
7,10 — 12"
11 — 8"/12"
12 — 12"
13 — 12"
14 — 12"
15 — 12"

EXISTING SIGNAL HEADS TO BE REMOVED

1A — 8"/12"
3A — 12"
4A — 12"

PROPOSED SIGNS

36 — R5-1 30"X30"
16,19,23,26 — R10-12(2) 48"X36"
30 — 48"X72"
31 — 24"X48"
32 — M3-3 24"X12" / M1-4 24"X24" / M6-1 21"X15"
33 — M3-3 24"X12" / M1-4 24"X24" / M6-1 21"X15"
34 — R1-2 36"X36"

ASSOCIATED SHIELD ASSEMBLY

EXISTING SIGNS TO REMAIN

28 — R3-5R 30" x 36"
27 — R3-6L 30" x 36"
29 — R3-5L 30" x 36"
20 — SIGNAL AHEAD / PREPARE TO STOP WHEN FLASHING — W3-3(2) 120" x 60"
21 — W3-3 48" x 48"
17 — Guilford Road — D3-2 96" x 16" DUAL-FACED
24 — Guilford Road — D3-2 96" x 16" DUAL-FACED

EXISTING SIGNS TO BE REMOVED

22,25 — LEFT TURN YIELD ON FLASHING RED ARROW AFTER STOP
16A,18 — LEFT TURN YIELD ON GREEN

EXISTING VIDEO DETECTION CAMERA

a,b,c,d

EXISTING OPTICOM DETECTOR

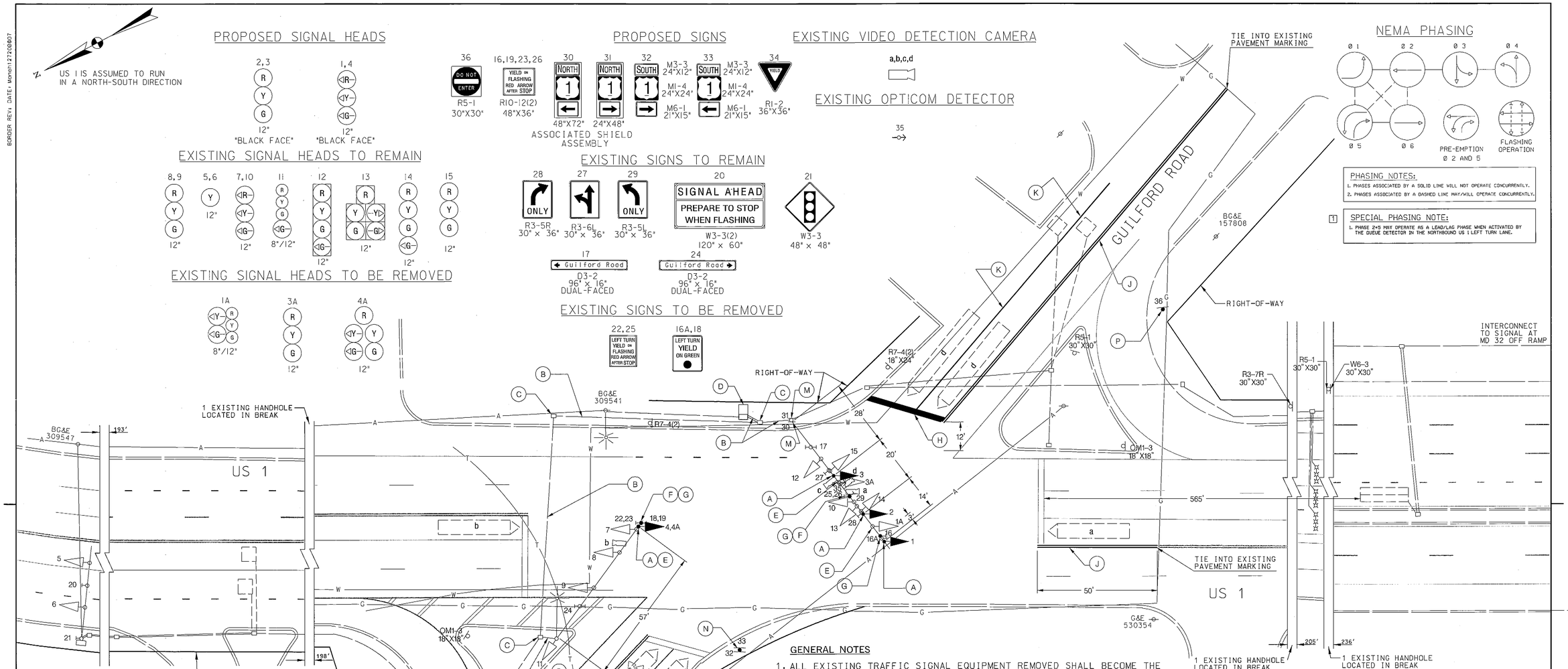
35

NEMA PHASING

Ø 1, Ø 2, Ø 3, Ø 4, Ø 5, Ø 6, PRE-EMPTION Ø 2 AND 5, FLASHING OPERATION

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

1 SPECIAL PHASING NOTE:
1. PHASE 2+5 MAY OPERATE AS A LEAD/LAG PHASE WHEN ACTIVATED BY THE QUEUE DETECTOR IN THE NORTHBOUND US 1 LEFT TURN LANE.



CONSTRUCTION DETAILS

A. INSTALL NEW TRAFFIC SIGNAL HEAD.
B. USE EXISTING CONDUIT.
C. USE EXISTING HANDHOLE.
D. USE EXISTING BASE MOUNTED CONTROLLER.
E. REMOVE EXISTING TRAFFIC SIGNAL HEAD.
F. INSTALL NEW SIGN ON THE MAST ARM.
G. REMOVE EXISTING OVERHEAD SIGN.
H. INSTALL 24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES.
J. INSTALL 5 INCH HEAT APPLIED DOUBLE YELLOW PERMANENT PAVEMENT MARKING LINES.
K. INSTALL 5 INCH WHITE HEAT APPLIED PERMANENT PAVEMENT MARKING LINES.
M. BAND SIGN TO POLE.
N. INSTALL GROUND MOUNT SIGN ON A 4"X6" WOOD POST.
P. INSTALL GROUND MOUNT SIGN ON A 4"X4" WOOD POST.

GENERAL NOTES

1. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
3. 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.
4. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE 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.
5. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ABANDONED ELECTRICAL CABLE.

GEOMETRIC LEGEND

EXISTING
PROPOSED

UTILITY LEGEND

SD — STORM DRAIN
G — GAS MAIN
W — WATER MAIN
S — SEWER MAIN
E — ELECTRIC CABLES
A — AERIAL CABLES
T — TELEPHONE CABLES
F — FIBER-OPTIC

1 REDLINE NO. 1 — 10-2-11

KCI TECHNOLOGIES
ENGINEERS
PLANNERS
SCIENTISTS
CONSTRUCTION MANAGERS
936 RIDGEBROOK ROAD
SPARKS, MARYLAND 21152
TELEPHONE: (410) 316-7800
FAX: (410) 316-7818

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

US 1 AT GUILFORD ROAD
SAVAGE, MD

TRAFFIC SIGNALIZATION PLAN

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

REVISIONS

3 MODIFY LEFT TURN FOR NB US1 TO FLASHING RED ARROW CONTRACT # X06505165				7/2011 TIMS NO. K917	
KCI	W.M.	D.S.P.	R.B.	M.L.P.	T.H.
1 INSTALL SIDE STREET VIDEO DETECTION ON EB AND WB GUILFORD RD. - SHA NO. H06965177 REDLINE NO.				05/2008	
U.K.B.	M.A.R.		W.H.	T.H.	
2 INSTALL RT OVERLAP PHASE ON EB GUILFORD RD. UPGRADE SB US 1 TO FLASHING LT SIGNAL, AND UPGRADE TO ACTIVE HIB - SHA NO. AT3589185 (TIMS# F761)				10/2003	
STV SOY	J.W.B.	D.A.Z.			B.R.K.

SCALE 1" = 20'	ADVERTISED DATE _____	CONTRACT NO. H06965177
DESIGNED BY _____		COUNTY HOWARD
DRAWN BY J. SPENCE		LOGMILE 13000103.26
CHECKED BY A. DUBNICHUK		TIMS NO. K917
F.A.P. NO. SEE TITLE SHEET		TOD NO. _____
TS NO. 270M	DRAWING SG-1 OF 2	SHEET NO. 1 OF 2

PLOTTED: "01:16 PM on Wednesday, October 12, 2011"
FILE: M:\2009\01090619.32\Submtls\Final Submission\Redline No. 1\K917 SignalSheet.dgn