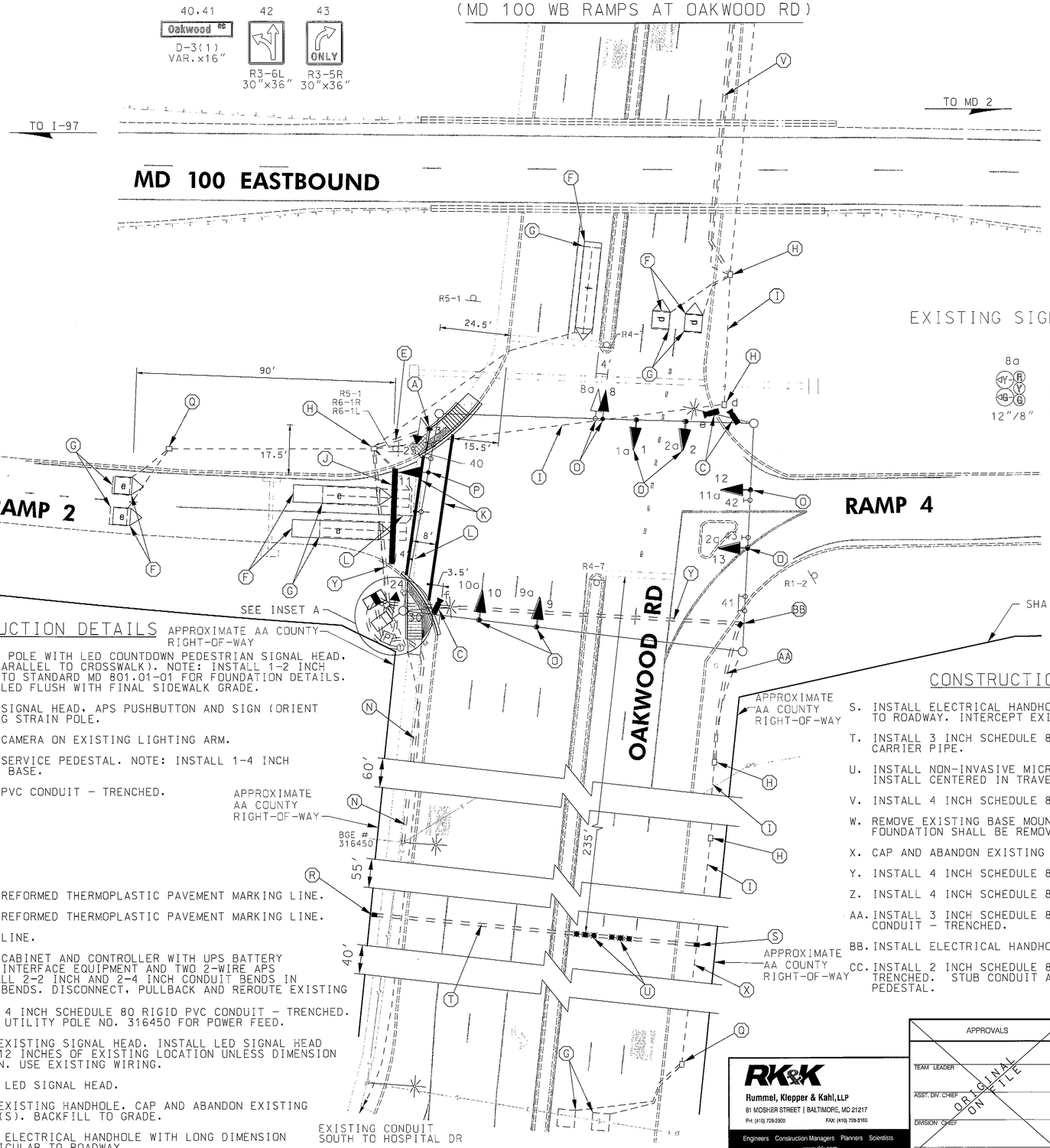
MD 100 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION

EXISTING SIGNS TO REMAIN

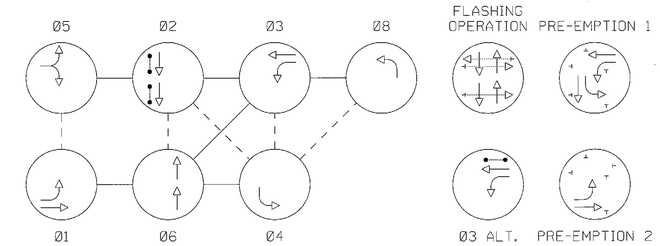
40,41 — Oakwood RD, D-3(1) VAR.x16"
42 — R3-6L 30"x36"
43 — ONLY, R3-5R 30"x36"

MATCHLINE - SHEET SP-1
(MD 100 WB RAMPS AT OAKWOOD RD)



INSET A
NOT TO SCALE

NEMA PHASING



NOTES:
PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.
PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
OVERLAP A: PHASES 2 AND 4
OVERLAP B: PHASES 6 AND 8
TRAFFIC SIGNAL CONTROLLER AT MD 100 EB RAMPS AT OAKWOOD RD CONTROLS MD 100 WB RAMPS AT OAKWOOD RD AND MD 100 EB RAMPS AT OAKWOOD RD

EXISTING SIGNALS TO BE REMOVED

8a — 12"/8"
9a — 12"
1a,2a,10a,11a,12a — 12"

PROPOSED LED SIGNALS

8 — 12"/8"
1,2,10,11,12,13 — 12"
9 — 12"
24,25 — 16"

EXISTING OPTICOM

d,e,f — PROPOSED IP-BASED VIDEO DETECTION

NOTE: TRAFFIC SIGNAL HEAD NUMBERING IS COMBINED WITH MD 100 EASTBOUND RAMPS AT OAKWOOD RD

PROPOSED ACCESSIBLE PUSHBUTTONS AND SIGNS

30 — PUSH BUTTON TO CROSS RAMP; START CROSSING WHEN FOR TURNING VEHICLES; DON'T START FINISH CROSSING IF STARTED; TIME REMAINING TO FINISH CROSSING; PEDESTRIANS SHOULD NOT BE IN CROSSWALK; RAMP IN BRAILLE TYPE 2 — RAMP R10-3(1) 9"x15"

31 — PUSH BUTTON TO CROSS RAMP; START CROSSING WHEN FOR TURNING VEHICLES; DON'T START FINISH CROSSING IF STARTED; TIME REMAINING TO FINISH CROSSING; PEDESTRIANS SHOULD NOT BE IN CROSSWALK; RAMP IN BRAILLE TYPE 2 — RAMP R10-3(1) 9"x15"

CONSTRUCTION DETAILS

A. INSTALL 10 FT. BREAKAWAY PEDESTAL POLE WITH LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, APS PUSHBUTTON AND SIGN (ORIENT PARALLEL TO CROSSWALK). NOTE: INSTALL 1-2 INCH CONDUIT BEND IN POLE BASE. REFER TO STANDARD MD 801.01-01 FOR FOUNDATION DETAILS. TOP OF FOUNDATION SHALL BE INSTALLED FLUSH WITH FINAL SIDEWALK GRADE.

B. INSTALL LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, APS PUSHBUTTON AND SIGN (ORIENT PARALLEL TO CROSSWALK) ON EXISTING STRAIN POLE.

C. INSTALL IP-BASED VIDEO DETECTION CAMERA ON EXISTING LIGHTING ARM.

D. INSTALL 100 AMP EMBEDDED METERED SERVICE PEDESTAL. NOTE: INSTALL 1-4 INCH AND 3-2 INCH PVC CONDUIT BENDS IN BASE.

E. INSTALL 2 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED.

F. PROPOSED VIDEO DETECTION ZONE.

G. ABANDON EXISTING LOOP DETECTOR.

H. USE EXISTING HANDHOLE.

I. USE EXISTING CONDUIT.

J. INSTALL 24 INCH WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE.

K. INSTALL 12 INCH WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE.

L. REMOVE EXISTING PAVEMENT MARKING LINE.

M. INSTALL NEMA SIZE S BASE MOUNTED CABINET AND CONTROLLER WITH UPS BATTERY BACKUP, IP-BASED VIDEO DETECTION INTERFACE EQUIPMENT AND TWO 2-WIRE APS CENTRAL CONTROL UNIT. NOTE: INSTALL 2-2 INCH AND 2-4 INCH CONDUIT BENDS IN CABINET BASE. CAP UNUSED CONDUIT BENDS. DISCONNECT, PULLBACK AND REROUTE EXISTING CABLES TO REMAIN.

N. INSTALL 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED. STUB AT UTILITY POLE NO. 316450 FOR POWER FEED.

O. REMOVE EXISTING SIGNAL HEAD. INSTALL LED SIGNAL HEAD WITHIN 12 INCHES OF EXISTING LOCATION UNLESS DIMENSION IS GIVEN. USE EXISTING WIRING.

P. INSTALL LED SIGNAL HEAD.

Q. REMOVE EXISTING HANDHOLE. CAP AND ABANDON EXISTING CONDUIT(S). BACKFILL TO GRADE.

R. INSTALL ELECTRICAL HANDHOLE WITH LONG DIMENSION PERPENDICULAR TO ROADWAY.

CONSTRUCTION DETAILS (CONT.)

S. INSTALL ELECTRICAL HANDHOLE WITH LONG DIMENSION PERPENDICULAR TO ROADWAY. INTERCEPT EXISTING CONDUIT.

T. INSTALL 3 INCH SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED FOR CARRIER PIPE.

U. INSTALL NON-INVASIVE MICROLOOP PROBE SET WITH LEAD-IN CABLE. INSTALL CENTERED IN TRAVEL LANE.

V. INSTALL 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED.

W. REMOVE EXISTING BASE MOUNTED CABINET AND UTILITY SERVICE EQUIPMENT. FOUNDATION SHALL BE REMOVED BELOW GRADE AND BACKFILLED.

X. CAP AND ABANDON EXISTING CONDUIT.

Y. INSTALL 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED.

Z. INSTALL 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED.

AA. INSTALL 3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED.

BB. INSTALL ELECTRICAL HANDHOLE.

CC. INSTALL 2 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED. STUB CONDUIT AT EXISTING COMMUNICATION PEDESTAL.

GEOMETRIC LEGEND
- EXISTING
- PROPOSED

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

BY: BJG

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

REVISIONS
D — INSTALL APS/CPS. 08-2012
ADD IP-BASED VIDEO DETECTION
SHA NO. XX2245185 TIMS NO. L318
C — ADD PRE-EMPTION 04-2004
FOR MD 100 RAMPS
SHA NO. XX1065485
B — SPLIT SIDE STREET 10-29-1993
PHASING FOR RAMPS 1 AND 3
SHA NO. AA-512-501-576

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

MD 100 EASTBOUND RAMPS AT OAKWOOD RD
GLEN BURNIE, MARYLAND

TRAFFIC SIGNAL PLAN

SCALE 1"=20' DATE 10-25-1992 CONTRACT NO. AA-512-501-576
DESIGNED BY G.SIMMERS COUNTY ANNE ARUNDEL
DRAWN BY W.MALCOLM LOGMILE 02010008.38
CHECKED BY TIMS NO.
FAP NO. TOD NO.
TS NO. 3278D DRAWING SP-2 OF 3 SHEET NO. 2 OF 5

PLOTTED: Friday, August 10, 2012 AT 02:29 PM.
FILE: \\rkkm\v2008\2008\08148_tcddes\Task 117_MD 100 at Oakwood\CADD\pSG-0002_MD100@Oakwood.dgn