MD 414 IS ASSUMED TO RUN IN AN EAST/WEST DIRECTION

EXISTING SIGNS TO REMAIN

17a John Hanson LN — D-3(1) (VAR.x16")
17b John Hanson LN — D-3(1) (VAR.x16")
23 WEST MARYLAND 414 — M3-4 (24"X12") M1-5 (30"X24")
24 ROSECROFT — D-3(1) (VAR.x16")
25 SPEED LIMIT 40 — R2-1 (24"X30")
26 STATE LAW STOP FOR IN X-WALKS — R1-6a(2) (42"X36")
28 EAST MARYLAND 414 — SHIELD ASSEMBLY (30"x48")
29 WEST MARYLAND 414 — SHIELD ASSEMBLY (48"x72")
30 — W1-7 (24"x12")
31 ONLY — R3-5(R) (30"x36")

EXISTING SIGNS TO RELOCATED

18b John Hanson LN — D-3(1) (VAR.x16")
18a John Hanson LN — D-3(1) (VAR.x16")

PROPOSED SIGNS

19 Oxon Hill RD — D-3(1) (VAR.x16")
20 — R4-7 (18"x30")
21 — OM1-3 (18"x18")
22,27 — R4-7 (24"x30") ROTATED AT 15°

EXISTING SIGNS TO BE REMOVED

21a,26a — R4-7 (24"x30")
31a — OM1-3 (18"x18")

PROPOSED ACCESSIBLE PUSHBUTTON AND SIGN

13, 14, 15, 16 — PUSH BUTTON TO CROSS JOHN HANSON LN / JOHN HANSON LN SMALLER TYPE 2 — R10-3(1) 9" x 15"

a.b PROPOSED VIDEO DETECTION

PROPOSED VIDEO DETECTION ZONES

a.b

PROPOSED LED SIGNALS

1,2,5 6,7 — 12"
3,4 — 12"
8 — 12"
9,10 11,12 — 16" LED COUNTDOWN PEDESTRIAN SIGNAL

EXISTING SIGNALS TO BE REMOVED

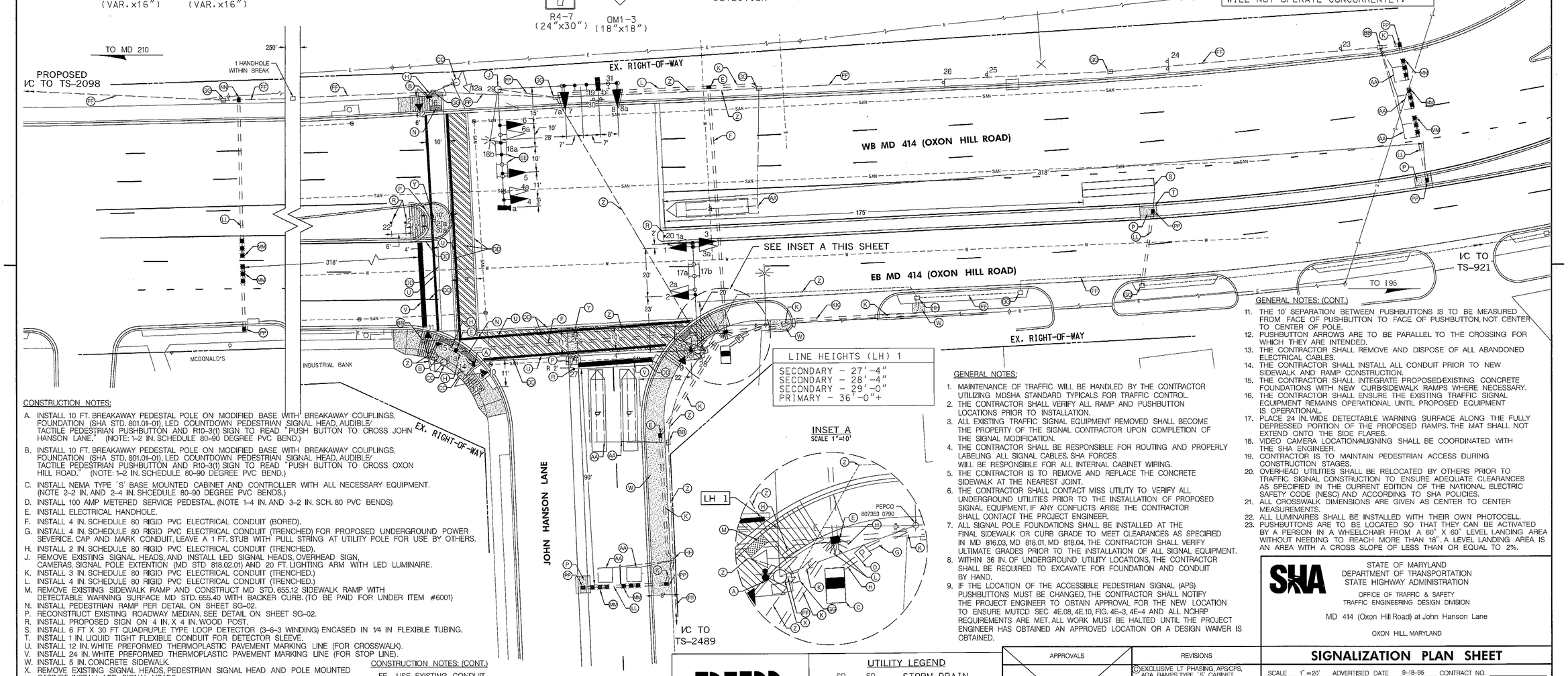
1a,2a,a 6a,7a — 12"
3a,4a — 12"
8a — 12"
9a,10a 11a,12a — 16" LED COUNTDOWN PEDESTRIAN SIGNAL

NEMA PHASING

Ø2 Ø4 Ø5 Ø6 — FLASHING OPERATION — Ø4 ALT

NOTE:
PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.
PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

TOD NO: XY132-14
SHA NO: PG40855
MD 414 @ John Hanson Lane



LINE HEIGHTS (LH) 1
SECONDARY - 27'-4"
SECONDARY - 28'-4"
SECONDARY - 29'-0"
PRIMARY - 36'-0"+

CONSTRUCTION NOTES:

A. INSTALL 10 FT. BREAKAWAY PEDESTAL POLE ON MODIFIED BASE WITH BREAKAWAY COUPLINGS, FOUNDATION (SHA STD. 801.01-01), LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE/ TACTILE PEDESTRIAN PUSHBUTTON AND R10-3(1) SIGN TO READ "PUSH BUTTON TO CROSS JOHN HANSON LANE." (NOTE: 1-2 IN. SCHEDULE 80-90 DEGREE PVC BEND.)
B. INSTALL 10 FT. BREAKAWAY PEDESTAL POLE ON MODIFIED BASE WITH BREAKAWAY COUPLINGS, FOUNDATION (SHA STD. 801.01-01), LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE/ TACTILE PEDESTRIAN PUSHBUTTON AND R10-3(1) SIGN TO READ "PUSH BUTTON TO CROSS OXON HILL ROAD." (NOTE: 1-2 IN. SCHEDULE 80-90 DEGREE PVC BEND.)
C. INSTALL NEMA TYPE 'S' BASE MOUNTED CABINET AND CONTROLLER WITH ALL NECESSARY EQUIPMENT. (NOTE 2-2 IN. AND 2-4 IN. SHCEDULE 80-90 DEGREE PVC BENDS.)
D. INSTALL 100 AMP METERED SERVICE PEDESTAL. (NOTE 1-4 IN. AND 3-2 IN. SCH. 80 PVC BENDS)
E. INSTALL ELECTRICAL HANDHOLE.
F. INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (BORED).
G. INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED) FOR PROPOSED UNDERGROUND POWER SEVERICE. CAP AND MARK CONDUIT, LEAVE A 1 FT. STUB WITH PULL STRING AT UTILITY POLE FOR USE BY OTHERS.
H. INSTALL 2 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED).
J. REMOVE EXISTING SIGNAL HEADS, AND INSTALL LED SIGNAL HEADS, OVERHEAD SIGN, CAMERAS, SIGNAL POLE EXTENTION (MD STD 818.02.01) AND 20 FT. LIGHTING ARM WITH LED LUMINAIRE.
K. INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED.)
L. INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED.)
M. REMOVE EXISTING SIDEWALK RAMP AND CONSTRUCT MD STD. 655.12 SIDEWALK RAMP WITH DETECTABLE WARNING SURFACE MD STD. 655.40 WITH BACKER CURB. (TO BE PAID FOR UNDER ITEM #6001)
N. INSTALL PEDESTRIAN RAMP PER DETAIL ON SHEET SG-02.
P. RECONSTRUCT EXISTING ROADWAY MEDIAN. SEE DETAIL ON SHEET SG-02.
R. INSTALL PROPOSED SIGN ON 4 IN. X 4 IN. WOOD POST.
S. INSTALL 6 FT X 30 FT QUADRUPLE TYPE LOOP DETECTOR (3-6-3 WINDING) ENCASED IN 1/4 IN FLEXIBLE TUBING.
T. INSTALL 1 IN. LIQUID TIGHT FLEXIBLE CONDUIT FOR DETECTOR SLEEVE.
U. INSTALL 12 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE (FOR CROSSWALK).
V. INSTALL 24 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE (FOR STOP LINE).
W. INSTALL 5 IN. CONCRETE SIDEWALK.
X. REMOVE EXISTING SIGNAL HEADS, PEDESTRIAN SIGNAL HEAD AND POLE MOUNTED CABINET. INSTALL LED SIGNAL HEADS.
Y. REMOVE EXISTING GROUND MOUNTED SIGN AND SUPPORT.
Z. CAP & ABANDON EXISTING CONDUIT.
AA. CUT AND ABANDON EXISTING LOOP DETECTOR.
BB. REMOVE EXISTING HANDHOLE.
CC. REMOVE AND DISPOSE OF EXISTING TRAFFIC SIGNAL EQUIPMENT. REMOVE FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.
DD. REMOVE EXISTING PAVEMENT MARKINGS.
EE. RELOCATE EXISTING OVERHEAD SIGN.

CONSTRUCTION NOTES: (CONT.)

FF. USE EXISTING CONDUIT.
GG. USE EXISTING HANDHOLE.
HH. USE EXISTING HANDHOLE. PULLBACK AND REROUTE I/C THRU PROPOSED CONDUIT TO PROPOSED CABINET.
KK. INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (SLOTTED).
LL. INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (BORED).
MM. INSTALL NON-INVASIVE PROBES. (SET OF THREE)
NN. INSTALL ELECTRICAL HANDHOLE WITH LONG SIDE PERPENDICULAR TO ROADWAY AND INTERCEPT EXISTING CONDUIT.
PP. INSTALL ELECTRICAL HANDHOLE WITH LONG SIDE PERPENDICULAR TO ROADWAY.

GENERAL NOTES:

1. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING MDSHA STANDARD TYPICALS FOR TRAFFIC CONTROL.
2. THE CONTRACTOR SHALL VERIFY ALL RAMP AND PUSHBUTTON LOCATIONS PRIOR TO INSTALLATION.
3. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE SIGNAL MODIFICATION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ROUTING AND PROPERLY LABELING ALL SIGNAL CABLES. SHA FORCES WILL BE RESPONSIBLE FOR ALL INTERNAL CABINET WIRING.
5. THE CONTRACTOR IS TO REMOVE AND REPLACE THE CONCRETE SIDEWALK AT THE NEAREST JOINT.
6. THE CONTRACTOR SHALL CONTACT MISS UTILITY TO VERIFY ALL UNDERGROUND UTILITIES PRIOR TO THE INSTALLATION OF PROPOSED SIGNAL EQUIPMENT. IF ANY CONFLICTS ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
7. ALL SIGNAL POLE FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
8. WITHIN 36 IN. OF UNDERGROUND UTILITY LOCATIONS, THE CONTRACTOR SHALL BE REQUIRED TO EXCAVATE FOR FOUNDATION AND CONDUIT BY HAND.
9. IF THE LOCATION OF THE ACCESSIBLE PEDESTRIAN SIGNAL (APS) PUSHBUTTONS MUST BE CHANGED, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER TO OBTAIN APPROVAL FOR THE NEW LOCATION TO ENSURE MUTCD SEC 4E.08, 4E.10, FIG. 4E-3, 4E-4 AND ALL NCHRP REQUIREMENTS ARE MET. ALL WORK MUST BE HALTED UNTIL THE PROJECT ENGINEER HAS OBTAINED AN APPROVED LOCATION OR A DESIGN WAIVER IS OBTAINED.

GENERAL NOTES: (CONT.)

11. THE 10' SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON TO FACE OF PUSHBUTTON, NOT CENTER TO CENTER OF POLE.
12. PUSHBUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.
13. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ABANDONED ELECTRICAL CABLES.
14. THE CONTRACTOR SHALL INSTALL ALL CONDUIT PRIOR TO NEW SIDEWALK AND RAMP CONSTRUCTION.
15. THE CONTRACTOR SHALL INTEGRATE PROPOSED/EXISTING CONCRETE FOUNDATIONS WITH NEW CURB/SIDEWALK RAMPS WHERE NECESSARY.
16. THE CONTRACTOR SHALL ENSURE THE EXISTING TRAFFIC SIGNAL EQUIPMENT REMAINS OPERATIONAL UNTIL PROPOSED EQUIPMENT IS OPERATIONAL.
17. PLACE 24 IN. WIDE DETECTABLE WARNING SURFACE ALONG THE FULLY DEPRESSED PORTION OF THE PROPOSED RAMPS. THE MAT SHALL NOT EXTEND ONTO THE SIDE FLARES.
18. VIDEO CAMERA LOCATION/ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
19. CONTRACTOR IS TO MAINTAIN PEDESTRIAN ACCESS DURING CONSTRUCTION STAGES.
20. OVERHEAD UTILITIES SHALL BE RELOCATED BY OTHERS PRIOR TO TRAFFIC SIGNAL CONSTRUCTION TO ENSURE ADEQUATE CLEARANCES AS SPECIFIED IN THE CURRENT EDITION OF THE NATIONAL ELECTRIC SAFETY CODE (NESC) AND ACCORDING TO SHA POLICIES.
21. ALL CROSSWALK DIMENSIONS ARE GIVEN AS CENTER TO CENTER MEASUREMENTS.
22. ALL LUMINAIRES SHALL BE INSTALLED WITH THEIR OWN PHOTOCELL.
23. PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR FROM A 60" X 60" LEVEL LANDING AREA WITHOUT NEEDING TO REACH MORE THAN 18". A LEVEL LANDING AREA IS AN AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.

RJM ENGINEERING, INC.
CONSULTING ENGINEERS
ELLICOTT CITY, MARYLAND

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

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

REVISIONS

C	EXCLUSIVE LT PHASING, APS/CPS, ADA RAMPS, TYPE 'S' CABINET XY1325185 TIMS:J724	06/2013
B	INSTALL PED INDICATIONS, CROSSWALK ON WEST/SOUTH LEGS PUSHBUTTON ON WEST LEG	
A	REPLACE FAILED DETECTION	

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 414 (Oxon Hill Road) at John Hanson Lane
OXON HILL, MARYLAND

SIGNALIZATION PLAN SHEET

SCALE 1" = 20' ADVERTISED DATE 9-18-95 CONTRACT NO.

DESIGNED BY W. RICHARDSON — COUNTY PRINCE GEORGE'S
DRAWN BY W. RICHARDSON — LOGMILE 16041401.30
CHECKED BY STEVE RENZI — TIMS NO.
F.A.P. NO. — TOD NO.

TS NO. 2114C — DRAWING SG-1 OF 3 — SHEET NO. 1 OF 3

PLOTTED: Thursday, June 20, 2013 AT 11:14 AM
FILE: P:\SHA\MD 414 at John Hanson Lane\2013-06 PSE\pSG-P002_MD414.dgn

BY: Jermaine