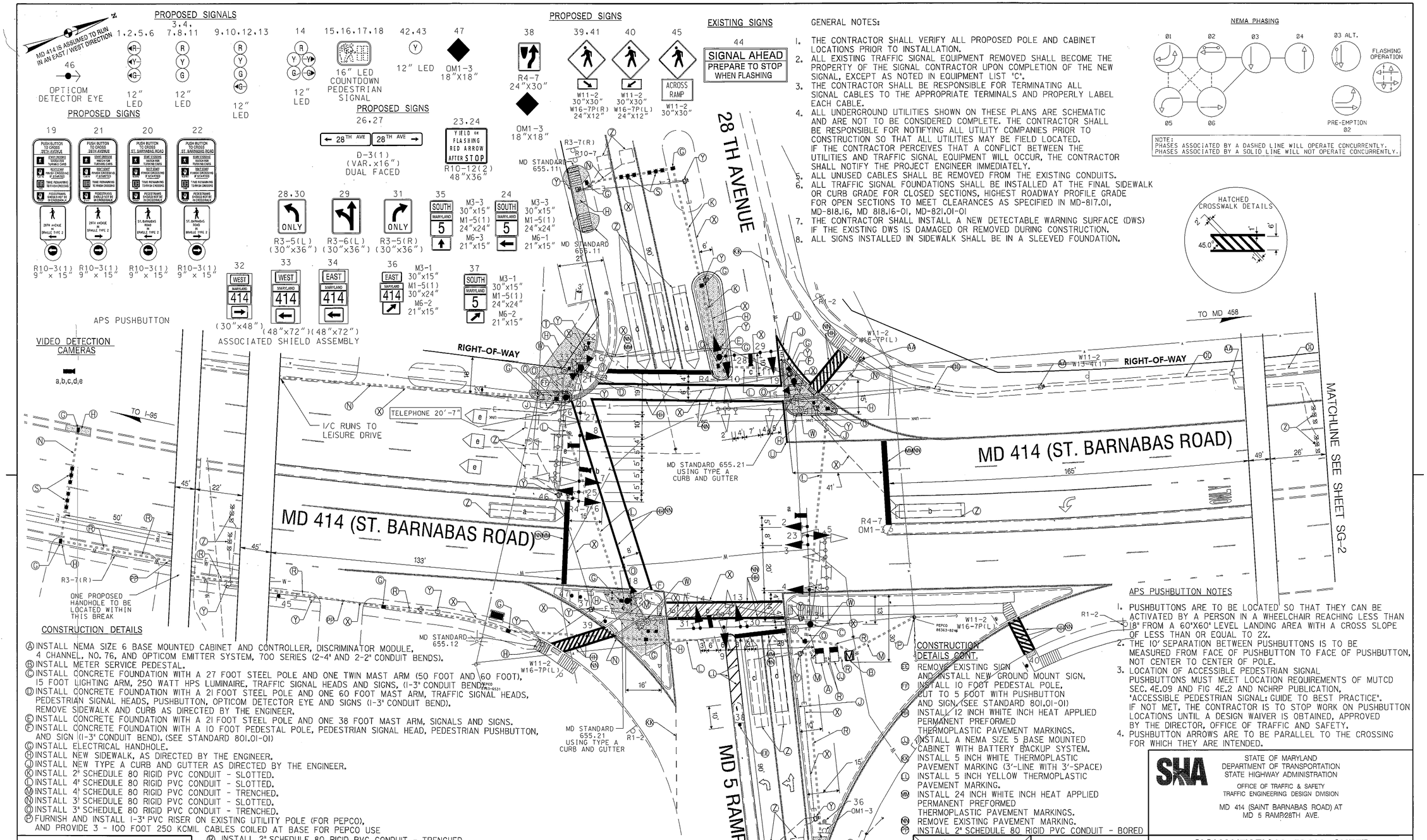

GENERAL NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
2. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL, EXCEPT AS NOTED IN EQUIPMENT LIST 'C'.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLES TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
4. ALL UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC AND ARE NOT TO BE CONSIDERED COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE FIELD LOCATED. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND TRAFFIC SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY.
5. ALL UNUSED CABLES SHALL BE REMOVED FROM THE EXISTING CONDUITS.
6. 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-817.01, MD-818.16, MD 818.16-01, MD-821.01-01
7. THE CONTRACTOR SHALL INSTALL A NEW DETECTABLE WARNING SURFACE (DWS) IF THE EXISTING DWS IS DAMAGED OR REMOVED DURING CONSTRUCTION.
8. ALL SIGNS INSTALLED IN SIDEWALK SHALL BE IN A SLEEVED FOUNDATION.

NEMA PHASING

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

HATCHED CROSSWALK DETAILS

CONSTRUCTION DETAILS

(A) INSTALL NEMA SIZE 6 BASE MOUNTED CABINET AND CONTROLLER, DISCRIMINATOR MODULE, 4 CHANNEL, NO. 76, AND OPTICOM EMITTER SYSTEM, 700 SERIES (2-4" AND 2-2" CONDUIT BENDS).
(B) INSTALL METER SERVICE PEDESTAL.
(C) INSTALL CONCRETE FOUNDATION WITH A 27 FOOT STEEL POLE AND ONE TWIN MAST ARM (50 FOOT AND 60 FOOT), 15 FOOT LIGHTING ARM, 250 WATT HPS LUMINAIRE, TRAFFIC SIGNAL HEADS AND SIGNS, (1-3" CONDUIT BEND).
(D) INSTALL CONCRETE FOUNDATION WITH A 21 FOOT STEEL POLE AND ONE 60 FOOT MAST ARM, TRAFFIC SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS, PUSHBUTTON, OPTICOM DETECTOR EYE AND SIGNS (1-3" CONDUIT BEND). REMOVE SIDEWALK AND CURB AS DIRECTED BY THE ENGINEER.
(E) INSTALL CONCRETE FOUNDATION WITH A 21 FOOT STEEL POLE AND ONE 38 FOOT MAST ARM, SIGNALS AND SIGNS.
(F) INSTALL CONCRETE FOUNDATION WITH A 10 FOOT PEDESTAL POLE, PEDESTRIAN SIGNAL HEAD, PEDESTRIAN PUSHBUTTON, AND SIGN (1-3" CONDUIT BEND). (SEE STANDARD 801.01-01)
(G) INSTALL ELECTRICAL HANDHOLE.
(H) INSTALL NEW SIDEWALK, AS DIRECTED BY THE ENGINEER.
(J) INSTALL NEW TYPE A CURB AND GUTTER AS DIRECTED BY THE ENGINEER.
(K) INSTALL 2" SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED.
(L) INSTALL 4" SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED.
(M) INSTALL 4" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED.
(N) INSTALL 3" SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED.
(O) INSTALL 3" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED.
(P) FURNISH AND INSTALL 1-3" PVC RISER ON EXISTING UTILITY POLE (FOR PEPCO), AND PROVIDE 3 - 100 FOOT 250 KCMIL CABLES COILED AT BASE FOR PEPCO USE
(R) INSTALL 2" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED.
(S) INSTALL NON-INVASIVE PROBES WITH 500 FOOT LEAD-IN-CABLE.
(T) REMOVE AND SALVAGE EXISTING TRAFFIC SIGNAL CONTROLLER AND CABINET.
(U) INSTALL 10 INCH SOLID WHITE THERMOPLASTIC PAVEMENT MARKING.
(W) REMOVE EXISTING SIGNAL POLE, MAST ARM, SIGNAL EQUIPMENT AND SIGNS.
(X) CAP AND ABANDON EXISTING CONDUIT.
(Y) REMOVE EXISTING HANDHOLE.
(Z) ABANDON EXISTING DETECTOR.
(AA) USE EXISTING HANDHOLE.
(BB) INSTALL NON-INVASIVE PROBES WITH 1000 FOOT LEAD IN CABLE.
(CC) REPLACE SIGNAL HEADS WITH LEDS.
(DD) USE EXISTING CONDUIT.

CONSTRUCTION DETAILS CONT.

(EE) REMOVE EXISTING SIGN AND INSTALL NEW GROUND MOUNT SIGN.
(FF) INSTALL 10 FOOT PEDESTAL POLE, CUT TO 5 FOOT WITH PUSHBUTTON AND SIGN (SEE STANDARD 801.01-01)
(HH) INSTALL 12 INCH WHITE INCH HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS.
(JJ) INSTALL A NEMA SIZE 5 BASE MOUNTED CABINET WITH BATTERY BACKUP SYSTEM.
(LL) INSTALL 5 INCH WHITE THERMOPLASTIC PAVEMENT MARKING (3'-LINE WITH 3'-SPACE)
(MM) INSTALL 5 INCH YELLOW THERMOPLASTIC PAVEMENT MARKING.
(NN) INSTALL 24 INCH WHITE INCH HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS.
(PP) REMOVE EXISTING PAVEMENT MARKING.
(RR) INSTALL 2" SCHEDULE 80 RIGID PVC CONDUIT - BORED

APS PUSHBUTTON NOTES

1. PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR REACHING LESS THAN 18" FROM A 60"X60" LEVEL LANDING AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
2. THE 10' SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON TO FACE OF PUSHBUTTON, NOT CENTER TO CENTER OF POLE.
3. LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SEC. 4E.09 AND FIG 4E.2 AND NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNAL: GUIDE TO BEST PRACTICE". IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATIONS UNTIL A DESIGN WAIVER IS OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.
4. PUSHBUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.

TOD NO: XX655-10
SHA NO: PG371B54
MD 414 @ MD 5 W ramp/28th Avenue

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

MD 414 (SAINT BARNABAS ROAD) AT MD 5 RAMP/28TH AVE.

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

REVISIONS

K	RECONSTRUCT SIGNAL FROM CONTRACT # XX655185				TIMS NO. J 728
KCI	08/01	08/01	RRB	MLP	J.H.
AT288518 5					
J	MODIFY TRAFFIC SIGNAL HEADS ON MD 414 AND SPLIT PHASE ON 28TH AVE				
SS/SWA	W.M.	M.A.R.	D.A.Z.	B.A.K.	T.H.
I	INSTALL BLACK FACED SIGNALS INSTALL W3-3 BE PREPARED TO STOP WHEN FLASHING FOR W/B 414 PRIOR TO MD 5 OVERPASS TIMS# D-416				
J.A.H.	M.A.R.		B.R.K.		T.H.

SIGNALIZATION PLAN SHEET

SCALE 1" = 20' ADVERTISED DATE _____ CONTRACT NO. US 9390(5)

DESIGNED BY J. HENKEL/H.KILLIAN — COUNTY PRINCE GEORGE'S
DRAWN BY J. HENKEL/J.SPENCE — LOGMILE 16041403.93
CHECKED BY MAR — TIMS NO. _____
F.A.P. NO. _____ — TOD NO. _____

TS NO. 16 K | DRAWING SG-1 OF 3 | SHEET NO. 1 OF 4

PLOTTED: Friday, August 19, 2011 at 2:42:00 PM
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