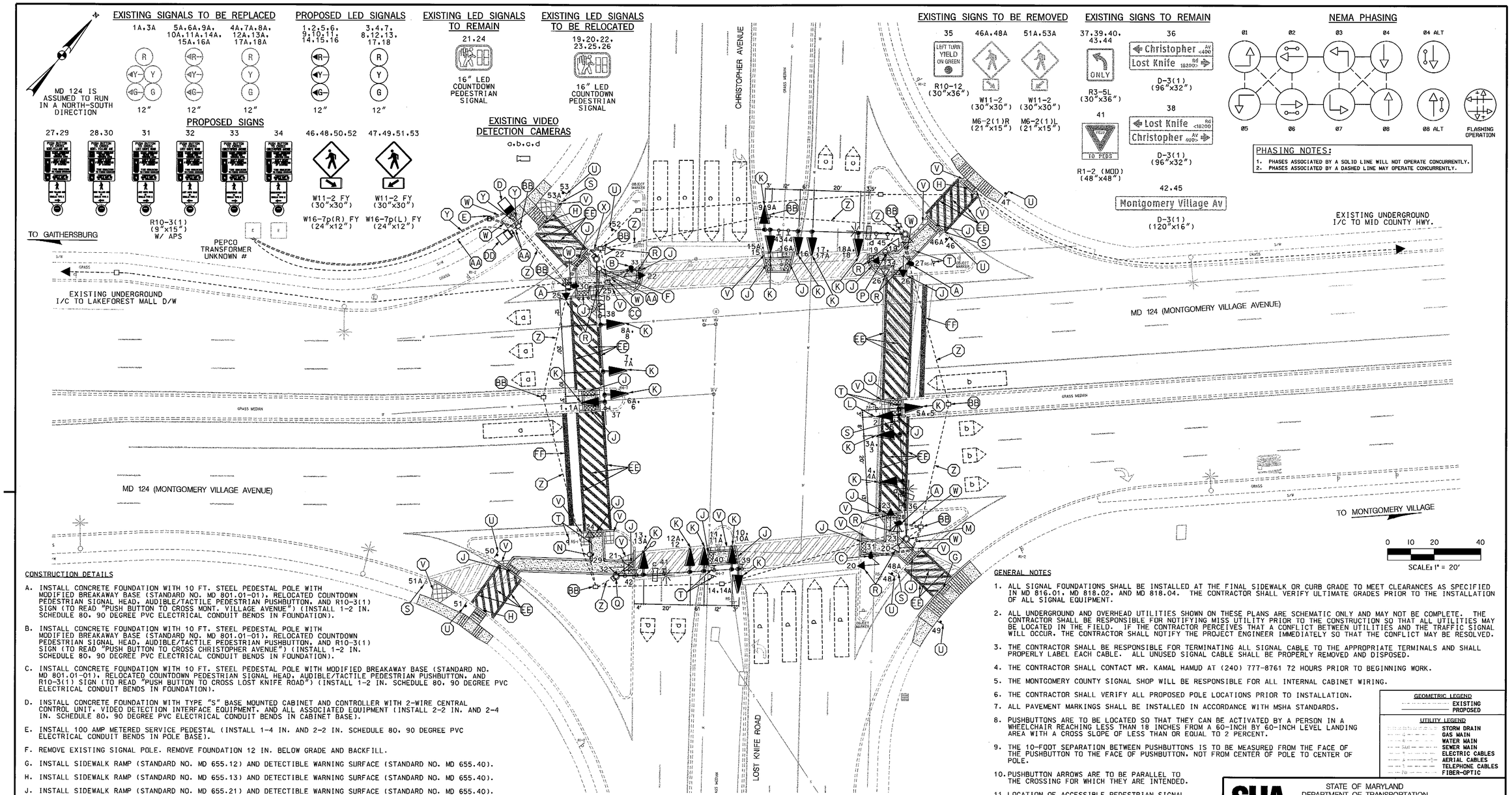

CONSTRUCTION DETAILS

A. INSTALL CONCRETE FOUNDATION WITH 10 FT. STEEL PEDESTAL POLE WITH MODIFIED BREAKAWAY BASE (STANDARD NO. MD 801.01-01), RELOCATED COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON, AND R10-3(1) SIGN (TO READ "PUSH BUTTON TO CROSS MONT. VILLAGE AVENUE") (INSTALL 1-2 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN FOUNDATION).

B. INSTALL CONCRETE FOUNDATION WITH 10 FT. STEEL PEDESTAL POLE WITH MODIFIED BREAKAWAY BASE (STANDARD NO. MD 801.01-01), RELOCATED COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON, AND R10-3(1) SIGN (TO READ "PUSH BUTTON TO CROSS CHRISTOPHER AVENUE") (INSTALL 1-2 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN FOUNDATION).

C. INSTALL CONCRETE FOUNDATION WITH 10 FT. STEEL PEDESTAL POLE WITH MODIFIED BREAKAWAY BASE (STANDARD NO. MD 801.01-01), RELOCATED COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON, AND R10-3(1) SIGN (TO READ "PUSH BUTTON TO CROSS LOST KNIFE ROAD") (INSTALL 1-2 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN FOUNDATION).

D. INSTALL CONCRETE FOUNDATION WITH TYPE "S" BASE MOUNTED CABINET AND CONTROLLER WITH 2-WIRE CENTRAL CONTROL UNIT, VIDEO DETECTION INTERFACE EQUIPMENT, AND ALL ASSOCIATED EQUIPMENT (INSTALL 2-2 IN. AND 2-4 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN CABINET BASE).

E. INSTALL 100 AMP METERED SERVICE PEDESTAL (INSTALL 1-4 IN. AND 2-2 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN POLE BASE).

F. REMOVE EXISTING SIGNAL POLE. REMOVE FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.

G. INSTALL SIDEWALK RAMP (STANDARD NO. MD 655.12) AND DETECTIBLE WARNING SURFACE (STANDARD NO. MD 655.40).

H. INSTALL SIDEWALK RAMP (STANDARD NO. MD 655.13) AND DETECTIBLE WARNING SURFACE (STANDARD NO. MD 655.40).

J. INSTALL SIDEWALK RAMP (STANDARD NO. MD 655.21) AND DETECTIBLE WARNING SURFACE (STANDARD NO. MD 655.40).

K. REMOVE EXISTING SIGNAL HEAD AND INSTALL NEW BLACK FACE LED SIGNAL HEAD. USE EXISTING ELECTRICAL CABLE.

L. INSTALL NEW SIGNAL HEAD.

M. REMOVE EXISTING PUSHBUTTON, SIGN, AND ASSOCIATED ELECTRICAL CABLE.

N. REPLACE EXISTING PUSHBUTTON AND SIGN WITH AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON AND R10-3(1) SIGN (TO READ "PUSH BUTTON TO CROSS MONT. VILLAGE AVENUE"). USE EXISITNG ELECTRICAL CABLE.

P. REPLACE EXISTING PUSHBUTTON AND SIGN WITH AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON AND R10-3(1) SIGN (TO READ "PUSH BUTTON TO CROSS CHRISTOPHER AVENUE"). INSTALL RELOCATED COUNTDOWN PEDESTRIAN SIGNAL HEAD. USE EXISITNG ELECTRICAL CABLE FOR PUSHBUTTON AND NEW CABLE FOR SIGNAL HEAD.

Q. INSTALL AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON AND R10-3(1) SIGN (TO READ "PUSH BUTTON TO CROSS LOST KNIFE ROAD").

R. RELOCATE EXISTING COUNTDOWN PEDESTRIAN SIGNAL TO NEW/EXISTING POLE.

S. REMOVE EXISTING SIGN AND SUPPORT.

T. RELOCATE EXISTING GROUND MOUNTED SIGN AND SUPPORT.

U. INSTALL GROUND MOUNTED SIGN ON ONE 4"x4" WOOD SUPPORT.

V. REMOVE EXISTING SIDEWALK, BACKFILL, SEED, AND MULCH.

W. INSTALL 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.

X. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.

Y. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.

Z. USE EXISTING CONDUIT.

AA. CAP AND ABANDON EXISTING CONDUIT. REROUTE EXISTING SIGNAL CABLES TO NEW CABINET.

BB. USE EXISTING HANDHOLE.

CC. ADJUST EXISTING HANDHOLE TO FINAL GRADE.

DD. REMOVE EXISTING CONTROLLER AND ALL AUXILLIARY EQUIPMENT AND RETURN TO THE MONTGOMERY COUNTY SIGNAL SHOP. REROUTE EXISTING SIGNAL CABLES TO NEW CABINET. REMOVE EXISTING CABINET AND REMOVE FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.

EE. REMOVE EXISTING PAVEMENT MARKINGS. INSTALL 12 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR CROSSWALK.

FF. REMOVE EXISTING PAVEMENT MARKINGS. INSTALL 24 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR STOPLINE.

GENERAL NOTES

1. ALL SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE TO MEET CLEARANCES AS SPECIFIED IN MD 816.01, MD 818.02, AND MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
2. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO THE CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND SHALL PROPERLY LABEL EACH CABLE. ALL UNUSED SIGNAL CABLE SHALL BE PROPERLY REMOVED AND DISPOSED.
4. THE CONTRACTOR SHALL CONTACT MR. KAMAL HAMUD AT (240) 777-8761 72 HOURS PRIOR TO BEGINNING WORK.
5. THE MONTGOMERY COUNTY SIGNAL SHOP WILL BE RESPONSIBLE FOR ALL INTERNAL CABINET WIRING.
6. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.
7. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
8. PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR REACHING LESS THAN 18 INCHES FROM A 60-INCH BY 60-INCH LEVEL LANDING AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2 PERCENT.
9. THE 10-FOOT SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM THE FACE OF THE PUSHBUTTON TO THE FACE OF PUSHBUTTON, NOT FROM CENTER OF POLE TO CENTER OF POLE.
10. PUSHBUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.
11. LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SECTION 4E-09 AND FIGURE 4E.2 AND THE NCHRP PUBLICATION "ACCESSIBLE PEDESTRIAN SIGNALS: 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.

GEOMETRIC LEGEND
EXISTING
PROPOSED

UTILITY LEGEND
STORM DRAIN
GAS MAIN
WATER MAIN
SEWER MAIN
ELECTRIC CABLES
AERIAL CABLES
TELEPHONE CABLES
FIBER-OPTIC

McCormick Taylor
Engineers & Planners Since 1946
509 South Exeter Street
4th Floor
Baltimore, Maryland 21202
(410) 662-7400

BY: PNKenney

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

REVISIONS

C	UPGRADE TO APS; CHANGE NB MD 124 EP TO EXCLUSIVE PHASING	10/27/11 SHA NO. XX4275185 TMS NO. 8294B		
B	INSTALL COUNTDOWN PEDS	5/24/05 SHA NO. AT6293853		
A	REBUILD TRAFFIC SIGNAL	8/29/02		

BSH | JWA | RRZ

PLOTTED: Thursday, October 27, 2011 AT 12:44 PM
FILE: I:\1812 - TEDD\34 - MD 124 Signal\DESIGN\Engineering\PlanSet\psSG-P001_TS4203C.dgn

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

MD 124 (MONTGOMERY VILLAGE AVENUE) AT CHRISTOPHER AVENUE /LOST KNIFE ROAD

MONTGOMERY VILLAGE, MARYLAND

TRAFFIC SIGNALIZATION PLAN

SCALE 1" = 20' | DATE | CONTRACT NO.

DESIGNED BY MCDPWT | COUNTY MONTGOMERY
DRAWN BY MCDPWT | LOGMILE 15012404.16
CHECKED BY MCDPWT | T.I.M.S. NO.
F.A.P. NO. | T.O.D. NO.

T.S. NO. 4203C | SG-01 OF SG-03 | SHEET NO. 1 OF 3