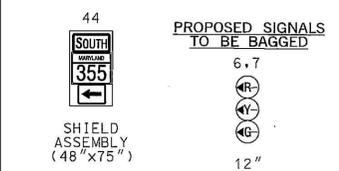


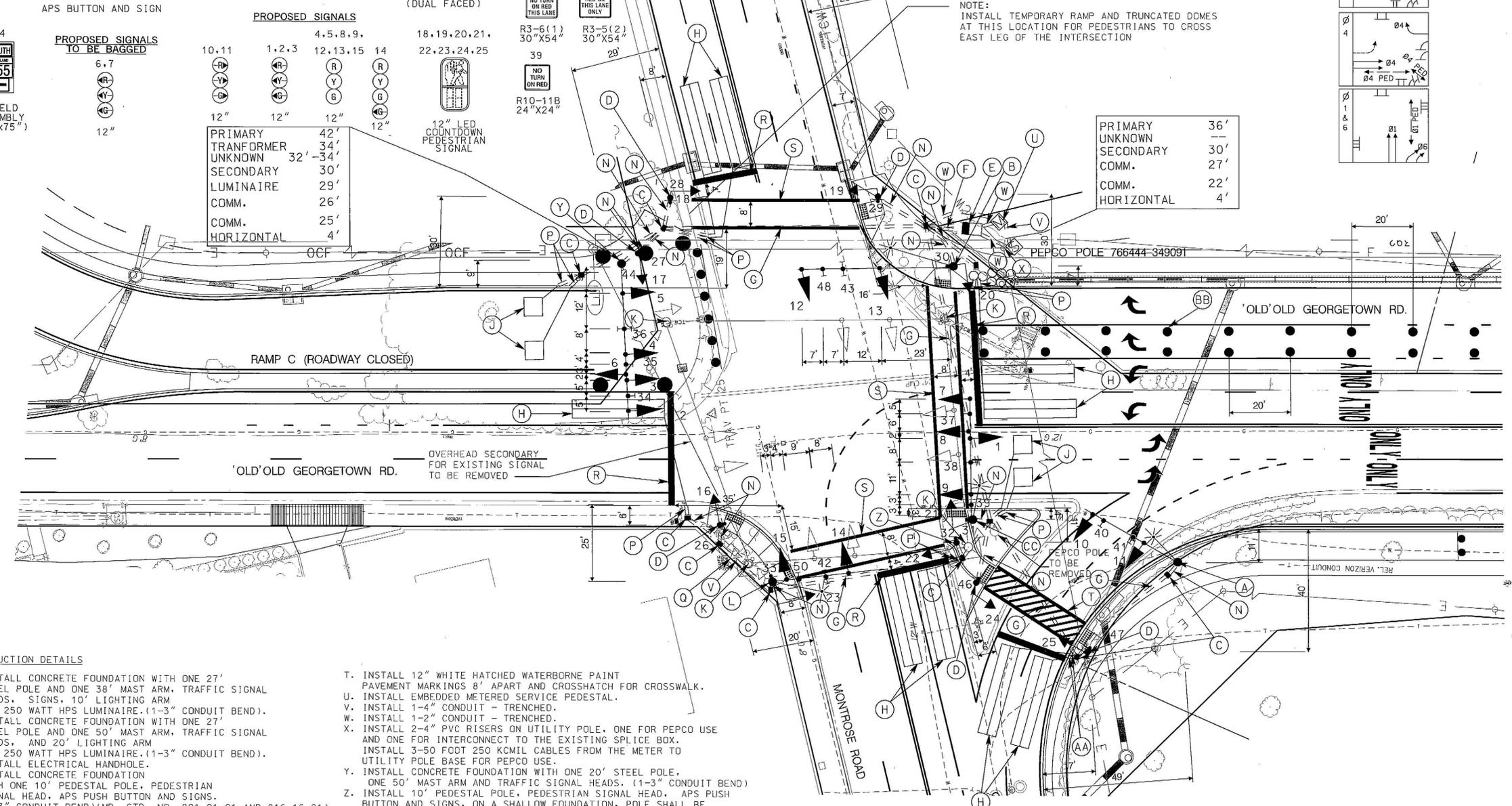
- GENERAL NOTES:**
1. THE CONTRACTOR SHALL VERIFY PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
 2. FOR TEMPORARY PAVEMENT MARKINGS REFER TO THE MAINTENANCE OF TRAFFIC PLANS, OTHER THAN THOSE DETAILED ON THE PLAN. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
 3. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.
 4. ALL PROPOSED LUMINAIRES SHALL BE SUPPLIED WITH A PHOTOCELL.
 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
 6. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE, THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
 7. 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 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
 8. CONTRACTOR SHALL BAG ALL SIGNAL HEADS NOT ACTIVELY IN USE DURING CONSTRUCTION.
 9. CONTRACTOR SHALL MAINTAIN SAFE PEDESTRIAN CROSSING PATHS IN ACCORDANCE WITH MUTCD DURING ALL PHASES OF CONSTRUCTION.
 10. APS PUSH BUTTONS MAY BE USED AS A STANDARD PUSH BUTTON DURING TEMPORARY PHASING UNTIL ALL NEW PUSH BUTTONS FOR EACH CROSSING ARE INSTALLED.

- 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. PUSHBUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.
 4. 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.



PROPOSED SIGNALS

10, 11	1, 2, 3	4, 5, 8, 9	12, 13, 15	14
(R)	(R)	(R)	(R)	(R)
(Y)	(Y)	(Y)	(Y)	(Y)
(G)	(G)	(G)	(G)	(G)
12"	12"	12"	12"	12"
PRIMARY 42'				
TRANSFORMER 34'				
UNKNOWN 32'-34'				
SECONDARY 30'				
LUMINAIRE 29'				
COMM. 26'				
COMM. 25'				
HORIZONTAL 4'				



- CONSTRUCTION DETAILS**
- A. INSTALL CONCRETE FOUNDATION WITH ONE 27' STEEL POLE AND ONE 38' MAST ARM, TRAFFIC SIGNAL HEADS, SIGNS, 10' LIGHTING ARM AND 250 WATT HPS LUMINAIRE. (1-3" CONDUIT BEND).
 - B. INSTALL CONCRETE FOUNDATION WITH ONE 27' STEEL POLE AND ONE 50' MAST ARM, TRAFFIC SIGNAL HEADS, AND 20' LIGHTING ARM AND 250 WATT HPS LUMINAIRE. (1-3" CONDUIT BEND).
 - C. INSTALL ELECTRICAL HANDHOLE.
 - D. INSTALL CONCRETE FOUNDATION WITH ONE 10' PEDESTAL POLE, PEDESTRIAN SIGNAL HEAD, APS PUSH BUTTON AND SIGNS. (1-3" CONDUIT BEND) (MD. STD. NO. 801.01-01 AND 816.16-01).
 - E. INSTALL A NEMA SIZE 6 BASE MOUNTED CABINET AND CONTROLLER (2-4", AND 2-2" CONDUIT BENDS).
 - F. INSTALL 2-4" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED.
 - G. INSTALL 2-4" SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED.
 - H. INSTALL 6" X 30" LOOPS QUADRUPOLE TYPE (3-6-3) LOOP DETECTOR ENCASED IN 1/4 INCH FLEXILE.
 - J. INSTALL 6" X 6" LOOPS (4 TURNS).
 - K. REMOVE EXISTING SIGNAL POLE, SPAN WIRE, SIGNAL HEADS, LUMINAIRES AND LIGHTING ARMS. (REMOVE FOUNDATION 12" BELOW GRADE).
 - L. INSTALL CONCRETE FOUNDATION WITH ONE 27' STEEL POLE AND ONE 38' MAST ARM, TRAFFIC SIGNAL HEADS, PEDESTRIAN SIGNAL HEAD, PUSH BUTTON, SIGNS, 15' LIGHTING ARM AND 250 WATT HPS LUMINAIRE. (1-3" CONDUIT BEND).
 - M. INSTALL GROUND MOUNT SIGN ON 1-4"X4" WOOD POST.
 - N. INSTALL 3" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED.
 - P. INSTALL 1" GALVANIZED CONDUIT FOR DETECTOR SLEEVE.
 - O. REMOVE EXISTING TRAFFIC SIGNAL CONTROLLER.
 - R. INSTALL 24" WHITE WATERBORNE PAINT PAVEMENT MARKING.
 - S. INSTALL 12" WHITE WATERBORNE PAINT PAVEMENT MARKING. MARKINGS 8' APART FOR CROSSWALK.
 - T. INSTALL 12" WHITE HATCHED WATERBORNE PAINT PAVEMENT MARKINGS 8' APART AND CROSSHATCH FOR CROSSWALK.
 - U. INSTALL EMBEDDED METERED SERVICE PEDESTAL.
 - V. INSTALL 1-4" CONDUIT - TRENCHED.
 - W. INSTALL 1-2" CONDUIT - TRENCHED.
 - X. INSTALL 2-4" PVC RISERS ON UTILITY POLE, ONE FOR PEPCO USE AND ONE FOR INTERCONNECT TO THE EXISTING SPLICE BOX. INSTALL 3-50 FOOT 250 KCMIL CABLES FROM THE METER TO UTILITY POLE BASE FOR PEPCO USE.
 - Y. INSTALL CONCRETE FOUNDATION WITH ONE 20' STEEL POLE, ONE 50' MAST ARM AND TRAFFIC SIGNAL HEADS. (1-3" CONDUIT BEND)
 - Z. INSTALL 10' PEDESTAL POLE, PEDESTRIAN SIGNAL HEAD, APS PUSH BUTTON AND SIGNS, ON A SHALLOW FOUNDATION. POLE SHALL BE RELOCATED WHEN ISLAND CONSTRUCTION IS COMPLETE. COIL 10' OF WIRE IN NEAREST HANDHOLE TO ACCOMMODATE FUTURE RELOCATION. (MD. STD. NO. 801.01-01 AND 816.16-01).
 - AA. INSTALL 1 INCH LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE.
 - BB. INSTALL DRUMS FOR MAINTENANCE OF TRAFFIC TO CLOSE LANE AS SHOWN. INSTALL DRUMS 20 FEET APART. REMOVE AS DIRECTED BY THE ENGINEER.
 - CC. INSTALL CONCRETE FOUNDATION WITH ONE 27' STEEL POLE AND ONE 38' MAST ARM, TRAFFIC SIGNAL HEADS, PEDESTRIAN SIGNAL HEAD, PUSH BUTTON, SIGNS, 10' LIGHTING ARM AND 250 WATT HPS LUMINAIRE. (1-3" CONDUIT BEND).

NO.	REVISION	BY	APP'D	DATE	DESIGNED BY:	DATE
I	355 INTERCHANGE	KCI	[Signature]	2/27/09	DRAWN BY:	DATE
					CHECKED BY:	DATE
					DRAWING NO.:	
					Approved:	
					Chief, Division of Traffic Engineering	
					Reviewed:	
					Manager, Traffic Engineering Studies	
					Reviewed:	
					Manager, Transportation Systems Engineering	
					Recommended:	
					Engineer, Transportation Systems Engineering	

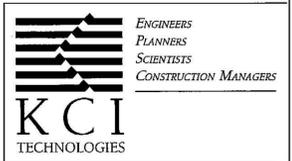
SCALE : 1" = 20'

**DEPARTMENT OF TRANSPORTATION
DIVISION OF TRAFFIC ENGINEERING &
OPERATIONS
MONTGOMERY COUNTY, MARYLAND**

MD 355 AT MONTROSE RD./RANDOLPH RD.
FROM 'OLD' OLD GEORGETOWN RD. TO MAPLE/CHAPMAN AVE.
(DESIGN-BUILD)

MONTROSE ROAD AT "OLD" OLD GEORGETOWN ROAD
STAGE 4 AND 5
TEMPORARY TRAFFIC SIGNAL PLAN

SP - 24 OF 41 SHEET 28 OF 84



PLOTTED: 08:51 AM on Friday, March 13, 2009
 BY: Arden Fagherri/Division: 0101/Transportation
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