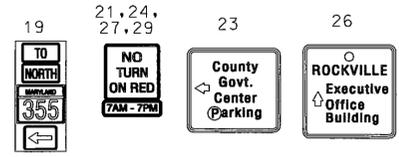
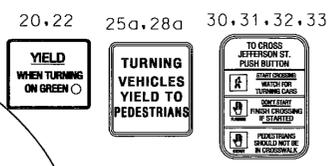


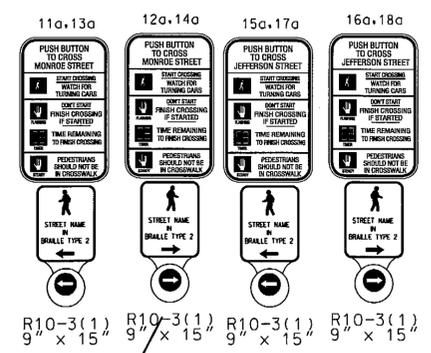
EXISTING SIGNS TO REMAIN



EXISTING SIGNS TO BE REMOVED



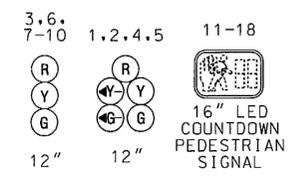
PROPOSED SIGNS



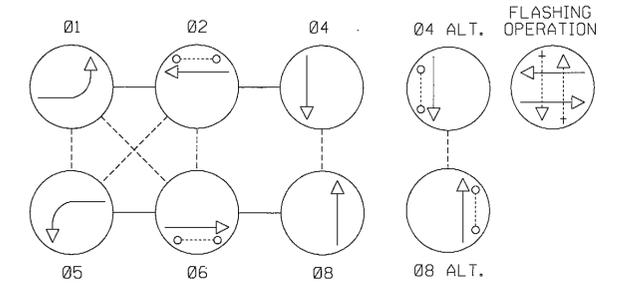
EXISTING SIGNALS TO BE REMOVED



PROPOSED SIGNALS



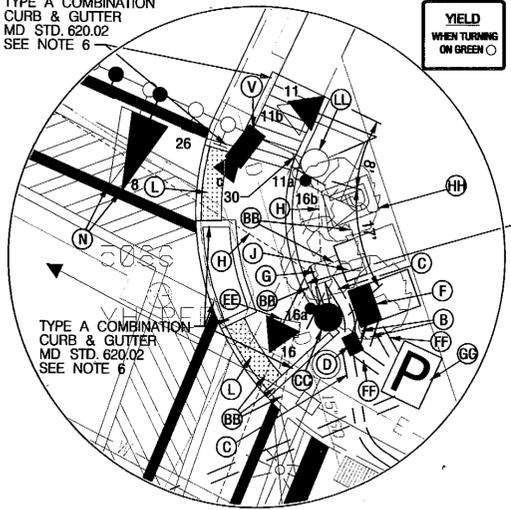
NEMA PHASING



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

MD 28 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION

TYPE A COMBINATION CURB & GUTTER MD STD. 620.02 SEE NOTE 6



DETAIL "AA" NOT TO SCALE

TYPE A COMBINATION CURB & GUTTER MD STD. 620.02 SEE NOTE 6

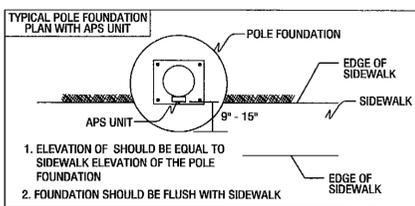
GENERAL NOTES

- PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR REACHING LESS THAN 18" FROM A 60" X 60" LEVEL LANDING AREA WITH A CROSS SLOPE OF LESS THEN OR EQUAL TO 2%.
- THE 10' SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON TO FACE OF PUSHBUTTON, NOT CENTER TO CENTER OF POLE.
- PUSHBUTTON ARROWS ARE TO BE PARRALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.
- LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SEC. 4E.09 AND FIG. 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.
- THE CONTRACTOR IS TO CONTACT PEPCO AND SCHEDULE THE DE-ENERGIZING OF THE EXISTING METER SERVICE PEDESTAL AND CONTROLLER CABINET PRIOR TO THE REMOVAL OF THIS EQUIPMENT.
- WHERE DEPRESS CURB IS PROPOSED, THE CONTRACTOR SHALL REPLACE THE ADJACENT CURB AND GUTTER TO THE EXISTING CURB JOINT.

TOD No: XX427-12
SHA No: MO228A53/B53
MD 28 @ Monroe Street

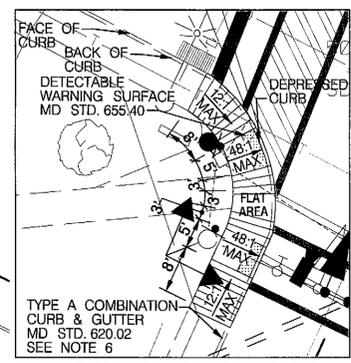
- CONSTRUCTION DETAILS**
- A. INSTALL CONCRETE FOUNDATION WITH 10 FT. STEEL PEDESTAL POLE WITH MODIFIED BREAKAWAY COUPLING BASE (MD STANDARD 801.01) PAINTED FEDERAL GREEN AND CUT DOWN TO 5 FT. WITH R10-3(1) SIGN, AUDIBLE/TACTILE PUSHBUTTON STATION WITH INTERNATIONAL BRAILLE ON THE FACE PLATE. (NOTE: ONE 3 IN. PVC SCHEDULE 80 CONDUIT BEND).
 - B. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
 - C. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
 - D. INSTALL HANDHOLE.
 - E. USE EXISTING MAST ARM AND INSTALL PROPOSED SIGN AS SHOWN ON PLAN.
 - F. INSTALL NEMA SIZE 6 BASE MOUNTED CONTROLLER AND CABINET. (NOTE: 2-4 IN. AND 2-2 IN. PVC SCHEDULE 80 CONDUIT BENDS).
 - G. USE EXISTING CONDUIT.
 - H. USE EXISTING CONDUIT.
 - I. REMOVE EXISTING CABINET AND CONTROLLER.
 - J. USE EXISTING MAST ARM AND INSTALL LED TRAFFIC SIGNAL HEAD AS SHOWN.
 - K. REMOVE CONCRETE SIDEWALK AND INSTALL SIDEWALK RAMP (MD STANDARD 655.12) WITH DETECTABLE WARNING SURFACE (MD STANDARD 655.40).
 - L. REMOVE EXISTING SIDEWALK, INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED THEN REPLACE SIDEWALK.
 - M. REMOVE EXISTING SIGNAL HEAD AND THE EXISTING CABLE COMPLETELY FROM THE MAST ARM AND DISPOSE OF THEM, THEN INSTALL PROPOSED LED TRAFFIC SIGNAL HEAD AND CABLE AT THE SAME LOCATION.
 - N. REMOVE EXISTING SIGN AND HARDWARE FROM MAST ARM COMPLETELY.
 - O. REMOVE EXISTING PAVEMENT MARKINGS FROM CROSSWALK.
 - P. INSTALL 12 IN. WHITE HEAT APPLIED, PREFORMED PERMANENT THERMOPLASTIC PAVEMENT MARKINGS - FOR CROSSWALK.
 - Q. ADJUST EXISTING HANDHOLE TO NEW SIDEWALK RAMP GRADE.
 - R. PROPOSED VIDEO DETECTION ZONE (6' X 30').
 - S. USE EXISTING MAST ARM AND INSTALL VIDEO DETECTION CAMERA AS SHOWN ON PLAN.
 - T. REMOVE EXISTING DECORATIVE SKIRT, PUSHBUTTON, PEDESTRIAN SIGNAL HEAD AND SIGN FROM EXISTING MAST ARM POLE, INSTALL NEW LED COUNTDOWN PEDESTRIAN SIGNAL HEAD AND PAINT BOTTOM OF SIGNAL POLE TO MATCH THE REST OF THE POLE (FEDERAL GREEN).
 - U. ABANDON EXISTING LOOP DETECTOR, REMOVE ALL CABLES FROM ALL CONDUITS, HANDHOLES AND CABINET.
 - V. RELOCATE EXISTING MAST ARM SIGN AS SHOWN ON PLAN.
 - W. REMOVE TOP STEP OF THE CONCRETE STAIRS UNTIL THE STAIR CASE IS LEVEL AND EVEN WITH THE FINISH GRADE OF THE PROPOSED LEVEL LANDING AREA OF THE SIDEWALK RAMP OPENING.
 - X. REMOVE A SECTION OF THE CONCRETE CURB AS SHOWN, EXCAVATE GRASS AND DIRT UP TO LEVEL CONCRETE LANDING AREA OF SIDEWALK RAMP, INSTALL CONCRETE CUT-THROUGH AT A LEVEL GRADE AS 5 FT. LEVEL LANDING (MD STANDARD 655.21).
 - Y. CAP AND ABANDON EXISTING CONDUIT.
 - Z. INSTALL CONCRETE FOUNDATION WITH 10 FT. PEDESTAL POLE WITH MODIFIED BREAKAWAY COUPLING BASE (MD STANDARD 801.01-01) PAINTED FEDERAL GREEN WITH R10-3(1) SIGN, AUDIBLE/TACTILE PUSHBUTTON STATION WITH INTERNATIONAL BRAILLE ON THE FACE PLATE. (NOTE: ONE 3 IN. PVC SCHEDULE 80 CONDUIT BEND).
 - AA. INSTALL 24 IN. WHITE HEAT APPLIED, PREFORMED PERMANENT THERMOPLASTIC PAVEMENT MARKINGS FOR STOP LINES.
 - BB. REMOVE EXISTING FRAME AND COVER OF HANDHOLE 12 IN. BELOW GRADE AND BACKFILL, CAP AND ABANDON ANY CONDUIT AFTER REMOVAL.
 - CC. INSTALL 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT TRENCHED.
 - DD. INSTALL 100 AMP METER SERVICE PEDESTAL EMBEDDED, DE-ENERGIZE AND REMOVE EXISTING METER SERVICE PEDESTAL, CAP AND ABANDON EXISTING CONDUIT AFTER REMOVAL.
 - EE. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - SLOTTED, STUB-OUT CONDUIT BEND AT THE BASE OF 6 IN. ABOVE GRADE TO PEPCO UTILITY POLE (PEPCO POLE No. 757454-4863).
 - FF. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - SLOTTED.
 - GG. REMOVE EXISTING PUSHBUTTON, PEDESTRIAN SIGNAL HEAD, SIGN AND DECORATIVE SKIRT FROM MAST ARM POLE, INSTALL NEW LED COUNTDOWN PEDESTRIAN SIGNAL HEAD AS SHOWN ON PLAN WITH R10-3(1) SIGN, AUDIBLE/TACTILE PUSHBUTTON STATION WITH INTERNATIONAL BRAILLE ON THE FACE PLATE. PAINT BOTTOM OF THE POLE TO MATCH REST OF THE POLE (FEDERAL GREEN).
 - HH. REMOVE EXISTING LOOP DETECTOR, REMOVE ALL CABLES FROM ALL CONDUITS, HANDHOLES AND CABINET.
 - II. RELOCATE EXISTING MAST ARM SIGN AS SHOWN ON PLAN.
 - JJ. REMOVE TOP STEP OF THE CONCRETE STAIRS UNTIL THE STAIR CASE IS LEVEL AND EVEN WITH THE FINISH GRADE OF THE PROPOSED LEVEL LANDING AREA OF THE SIDEWALK RAMP OPENING.
 - KK. REMOVE A SECTION OF THE CONCRETE CURB AS SHOWN, EXCAVATE GRASS AND DIRT UP TO LEVEL CONCRETE LANDING AREA OF SIDEWALK RAMP, INSTALL CONCRETE CUT-THROUGH AT A LEVEL GRADE AS 5 FT. LEVEL LANDING (MD STANDARD 655.21).
 - LL. CAP AND ABANDON EXISTING CONDUIT.
 - MM. INSTALL CONCRETE FOUNDATION WITH 10 FT. PEDESTAL POLE WITH MODIFIED BREAKAWAY COUPLING BASE (MD STANDARD 801.01-01) PAINTED FEDERAL GREEN WITH R10-3(1) SIGN, AUDIBLE/TACTILE PUSHBUTTON STATION WITH INTERNATIONAL BRAILLE ON THE FACE PLATE. (NOTE: ONE 3 IN. PVC SCHEDULE 80 CONDUIT BEND).
 - NN. INSTALL 24 IN. WHITE HEAT APPLIED, PREFORMED PERMANENT THERMOPLASTIC PAVEMENT MARKINGS FOR STOP LINES.
 - OO. REMOVE EXISTING FRAME AND COVER OF HANDHOLE 12 IN. BELOW GRADE AND BACKFILL, CAP AND ABANDON ANY CONDUIT AFTER REMOVAL.
 - PP. INSTALL 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT TRENCHED.
 - QQ. INSTALL 100 AMP METER SERVICE PEDESTAL EMBEDDED, DE-ENERGIZE AND REMOVE EXISTING METER SERVICE PEDESTAL, CAP AND ABANDON EXISTING CONDUIT AFTER REMOVAL.
 - RR. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - SLOTTED, STUB-OUT CONDUIT BEND AT THE BASE OF 6 IN. ABOVE GRADE TO PEPCO UTILITY POLE (PEPCO POLE No. 757454-4863).
 - SS. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - SLOTTED.

CONSTRUCTION DETAILS CONT.

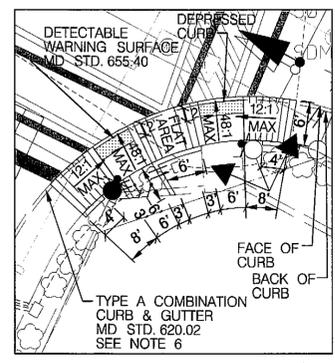


- ELEVATION OF SHOULD BE EQUAL TO SIDEWALK ELEVATION OF THE POLE FOUNDATION
- FOUNDATION SHOULD BE FLUSH WITH SIDEWALK

SABRA, WANG & ASSOCIATES, INC.
1504 JOH AVENUE
SUITE 160
BALTIMORE, MD 21227
(410) 737-8684
WWW.SABRA-WANG.COM



SIDEWALK RAMP DETAIL "A" NOT TO SCALE



SIDEWALK RAMP DETAIL "B" NOT TO SCALE

GEOMETRIC LEGEND	
	EXISTING
	CONSTRUCTION AREA
CONSTRUCTION LEGEND	
	CONSTRUCTION AREA
UTILITY LEGEND	
	STORM DRAIN
	GAS MAIN
	WATER MAIN
	SEWER MAIN
	ELECTRIC CABLES
	AERIAL CABLES
	TELEPHONE CABLES
	FIBER-OPTIC

APPROVALS	REVISIONS
<p>TEAM LEADER, TRAFFIC ENGINEERING DIVISION</p> <p>ASSIST. CHIEF TRAFFIC ENGINEERING DIVISION</p> <p>CHIEF TRAFFIC ENGINEERING DIVISION</p> <p>DIRECTOR, OFFICE OF TRAFFIC & SAFETY</p>	<p>(C) SHA No. XX42719185, TMS No. J499 06/2010 MODIFY EXISTING TRAFFIC SIGNAL WITH APS, CPS AND UPGRADE SIGNAL HEADS TO LED AND INSTALL NEW CABINET</p> <p>G SWA HD 1/28/1992 1/28/1992 12-19-99</p> <p>ASBUILT SHA No. M 757-452-376</p> <p>F RECONSTRUCT TO REPLACE EXISTING SIGNAL WITH ROCKVILLE TOWN CENTER STANDARD SIGNAL MAY 22, 1995</p> <p>AAI</p>

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

MD 28 (EAST JEFFERSON STREET) AT MONROE STREET
ROCKVILLE, MARYLAND

TRAFFIC SIGNAL PLAN

SCALE 1"=20' DATE 02/02/1972 CONTRACT NO. M-874X-375

DESIGNED BY LES TOWNSEND COUNTY MONTGOMERY

DRAWN BY LOGMILE 1500282.28

CHECKED BY T.J.M.S. NO.

F.A.P. NO. TOD NO.

TS NO. 24 H DRAWING 1 OF 3 SHEET NO. OF