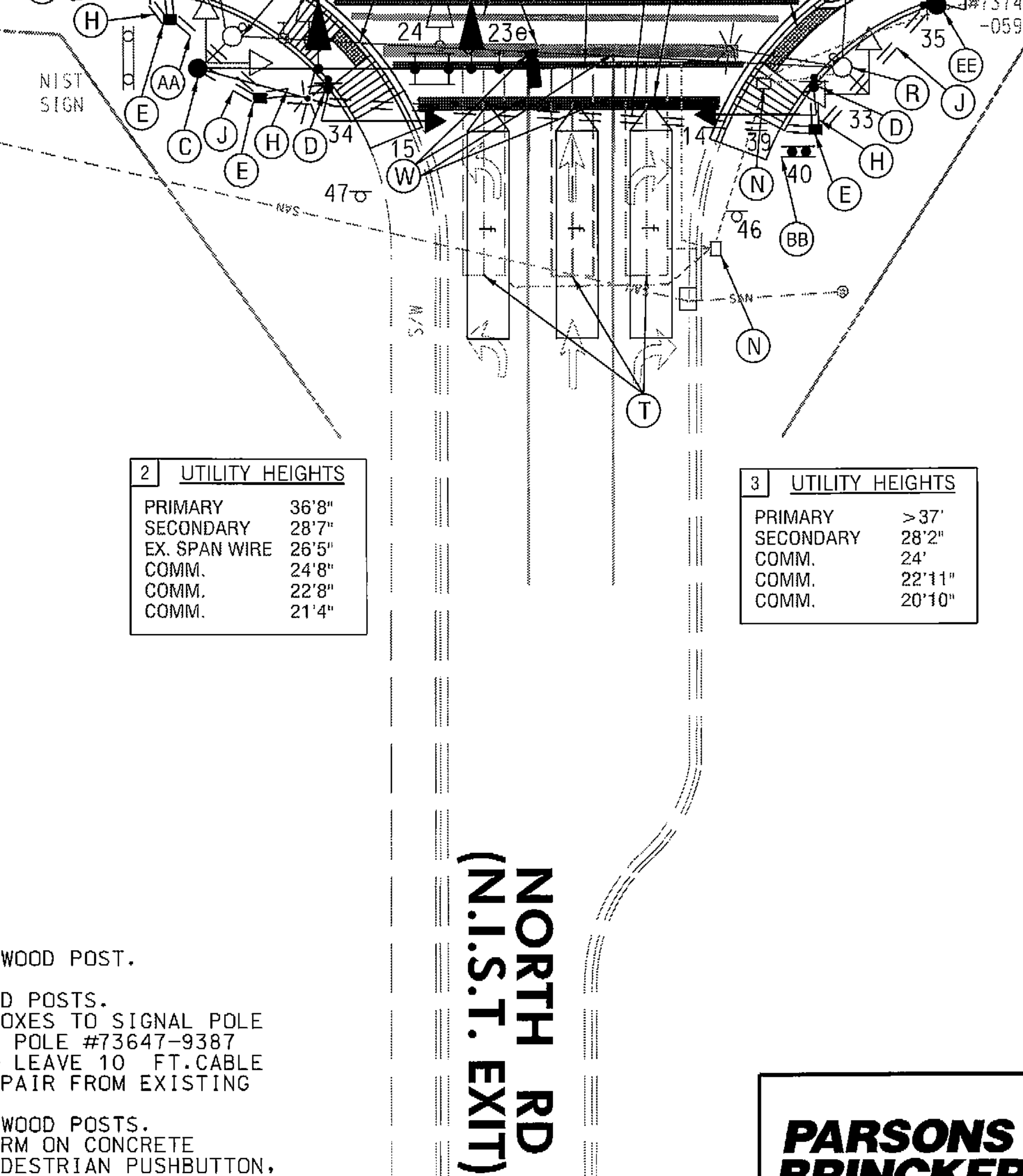

CONSTRUCTION DETAILS

A. INSTALL 27 FT. SINGLE MAST ARM POLE WITH A 70 FT. MAST ARM ON CONCRETE FOUNDATION WITH COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE TACTILE PEDESTRIAN PUSHBUTTON, LED SIGNAL HEADS, SIGNS, 15 FT. LIGHTING ARM AND LED LUMINAIRE, AND VIDEO DETECTION CAMERAS (NOTE: INSTALL 1-2 IN. AND 1-3 IN. 90° PVC CONDUIT BENDS). INCORPORATE CONCRETE FOUNDATION INTO PROPOSED CURB.
B. INSTALL 27 FT. SINGLE MAST ARM WITH A 50 FT. MAST ARM ON CONCRETE FOUNDATION WITH LED SIGNAL HEADS, SIGNS, 15 FT. LIGHTING ARM AND LED LUMINAIRE, AND VIDEO DETECTION CAMERA (NOTE: INSTALL 1-2 IN. AND 1-3 IN. 90° PVC CONDUIT BENDS). INCORPORATE PROPOSED FOUNDATION INTO PROPOSED CURB.
C. INSTALL 27 FT. SINGLE MAST ARM WITH A 50 FT. MAST ARM ON CONCRETE FOUNDATION WITH LED SIGNAL HEADS, SIGNS, 15 FT. LIGHTING ARM AND LED LUMINAIRE, AND VIDEO DETECTION CAMERA (NOTE: INSTALL 1-2 IN. AND 1-3 IN. 90° PVC CONDUIT BENDS).
D. INSTALL 10 FT. PEDESTAL POLE ON MODIFIED BASE WITH BREAKAWAY COUPLINGS (MD 801.01-01), COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE TACTILE PEDESTRIAN PUSHBUTTON AND SIGN (NOTE: INSTALL 1-2 IN 90° PVC CONDUIT BEND). INCORPORATE CONCRETE FOUNDATION INTO PROPOSED CURB.
E. INSTALL ELECTRICAL HANDHOLE.
F. INSTALL EMBEDDED METERED SERVICE PEDESTAL (NOTE: INSTALL 3-2 IN. AND 1-4 IN. 90° PVC CONDUIT BENDS).
G. INSTALL A NEMA SIZE 'S' BASE MOUNTED CABINET WITH ALL NECESSARY EQUIPMENT (NOTE: INSTALL 2-2 IN. AND 2-4 IN. 90° PVC CONDUIT BEND).
H. INSTALL 2 IN. SCHEDULE 80 PVC CONDUIT - TRENCHED.
J. INSTALL 1-2 IN. AND 1-3 IN. SCHEDULE 80 PVC CONDUIT - TRENCHED.
K. INSTALL 4 IN. SCHEDULE 80 PVC CONDUIT - TRENCHED.
L. INSTALL 4 IN. SCHEDULE 80 PVC CONDUIT - BORED.
M. INSTALL 4 IN. SCHEDULE 80 PVC CONDUIT - TRENCHED. STUB UP AT THE BASE OF PEPCO POLE #736475-9387 AND COIL 35 FT OF CABLE EACH AT THE BASE OF THE POLE. PEPCO TO MAKE FINAL CONNECTION.
N. REMOVE EXISTING HANDHOLE AND CAP AND ABANDON EXISTING CONDUIT.
P. REMOVE EXISTING BASE MOUNTED CABINET AND CAP AND ABANDON EXISTING CONDUIT, REMOVE EXISTING FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.
Q. REMOVE EXISTING SIGNAL POLE AND ALL ASSOCIATED EQUIPMENT. EXISTING OVERHEAD SERVICE FEED TO BE REMOVED BY PEPCO FORCES. CAP AND ABANDON EXISTING CONDUIT, REMOVE EXISTING FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.
R. REMOVE EXISTING SIGNAL POLE AND ALL ASSOCIATED EQUIPMENT. CAP AND ABANDON EXISTING CONDUIT, REMOVE EXISTING FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.
S. REMOVE EXISTING GROUND MOUNTED SIGN AND SUPPORT.
T. ABANDON EXISTING LOOP DETECTOR.
U. INSTALL 12 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING (FOR CROSSWALK).
V. INSTALL 24 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING (FOR STOP LINE).
W. REMOVE EXISTING PAVEMENT MARKING.
X. INSTALL RAMP PER DETAIL SHEET.

CONSTRUCTION DETAILS (CONT'D)

Y. REBUILD CONCRETE MEDIAN PER DETAIL SHEET.
Z. INSTALL PROPOSED GROUND MOUNTED SIGN ON ONE 4 IN. x 4 IN. BREAKAWAY WOOD POST.
AA. INSTALL 3 IN. SCHEDULE 80 PVC CONDUIT - TRENCHED.
BB. INSTALL PROPOSED GROUND MOUNT SIGN ON 2- 4 IN. x 4 IN. BREAKAWAY WOOD POSTS.
CC. INSTALL NEW 12 PAIR INTERCONNECT FROM NEW CABINET THROUGH NEW HAND BOXES TO SIGNAL POLE UP POLE THROUGH NEW WEATHER HEAD ON POLE AND ROUTE OVERHEAD TO PEPCO POLE #73647-9387 INTO EXISTING WEATHER HEAD AND DOWN RISER INTO EXISTING SPLICE BOX - LEAVE 10 FT.CABLE COILED UP. COORIDINATE WITH MONTGOMERY COUNTY TO REMOVE EXISTING 12 PAIR FROM EXISTING CABINET AND SPLICE BOX.
DD. INSTALL PROPOSED GROUND MOUNTED SIGN ON TWO 4 IN. x 4 IN. BREAKAWAY WOOD POSTS.
EE. INSTALL 27 FT. SINGLE MAST ARM POLE WITH A 70 FT. 'SPECIAL T' MAST ARM ON CONCRETE FOUNDATION WITH COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE TACTILE PEDESTRIAN PUSHBUTTON, LED SIGNAL HEADS, SIGNS, AND VIDEO DETECTION CAMERAS (NOTE: INSTALL 1-2 IN. AND 1-3 IN. 90° PVC CONDUIT BENDS). INCORPORATE PROPOSED FOUNDATION INTO PROPOSED CURB.

GEOMETRIC LEGEND

- EXISTING
- PROPOSED

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

GENERAL NOTES

1. 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 THE APPROPRIATE 800 SERIES STANDARD PLATES. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
2. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
3. ALL UNUSED SIGNAL CABLES SHALL BE REMOVED AND DISPOSED.
4. IF THE CABINET IS TO BE REMOVED MONTGOMERY COUNTY FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE SIGNAL MODIFICATION.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABELING EACH CABLE. ALL INTERNAL CABINET WIRING SHALL BE PERFORMED BY MONTGOMERY COUNTY FORCES.
6. 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 CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
7. CONTRACTOR SHALL DELIVER APS PUSHBUTTONS AND CENTRAL CONTROL UNIT TO MR. ROBERT RICKETTS AT MONTGOMERY COUNTY TECHNICAL CENTER AT 1283 SEVEN LOCKS ROAD, ROCKVILLE, MD 20854 AT LEAST 3 WEEKS PRIOR TO BEGINNING WORK. CONTRACTOR SHALL HAVE THE APS MESSAGES PROGRAMMED FROM THE FACTORY AND DELIVER THE APS WAVE FILES TO MR. ROBERT RICKETTS.
8. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE MONTGOMERY COUNTY ENGINEER.
9. ALL PROPOSED LUMINAIRES SHALL BE SUPPLIED WITH A PHOTOCELL.

GENERAL NOTES (CONT'D)

10. CONTRACTOR SHALL NOTIFY MR. KAMAL HAMUD AND MR. ROBERT RICKETTS 72 HOURS IN ADVANCE OF INTENDED WORK.
11. THE CONTRACTOR SHALL MAINTAIN THE CONTINUOUS OPERATION OF ALL INTERCONNECT, VEHICULAR, PEDESTRIAN DETECTORS, AND LIGHTING DEVICES. IF ANY DEVICE IS DAMAGED BY THE CONTRACTOR, IT SHALL BE REPAIRED WITHIN 72 HOURS BY THE CONTRACTOR AT NO COST TO THE SHA AFTER NOTIFICATION BY THE ENGINEER.
12. PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR REACHING LESS THAN 18 IN. FROM A 60 IN.X60 IN. LEVEL LANDING AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
13. THE 10' MINIMUM SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON TO FACE OF PUSHBUTTON, NOT CENTER TO CENTER OF POLE.
14. PUSHBUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.
15. LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SECTIONS 4E.08 AND 4E.10, FIGURES 4E.3 AND 4E-4, AND THE NCHRP PUBLICATION, ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE. IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATION UNTIL A DESIGN WAIVER IS OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.

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

REVISIONS

- Ⓑ RECONSTRUCT EXISTING TRAFFIC SIGNAL WITH NEW SIGNAL POLES, HEADS, UPGRADE TO APS/CPS, ADA RAMPS, AND LIGHTING. SHA NO. XY2385185 TIMS NO. M005 8-9-2013
- A REMOVE S/B MD 124 E/P L.T. SIG. HEAD & REPLACE LOOP DET. ON E/B NIST EXIT & BANK ST. & INSTALL LUMINAIRES SHA NO. AT2885185 TIMS NO. 10/2003

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

MD 124 (QUINCE ORCHARD RD) AT BANK ST

GAITHERSBURG, MD

SIGNALIZATION PLAN SHEET

SCALE 1" = 20'	DATE 9-3-1987	CONTRACT NO. 855-25006
DESIGNED BY R. ZACHERL	COUNTY MONTGOMERY	
DRAWN BY S. THACKER	LOGMILE 15012402.54	
CHECKED BY D. J. DODA	TIMS NO.	
F.A.P. NO.	TOD NO.	
TS NO. 1656B	DRAWING SG-01 OF 03	SHEET NO. 01 OF 03

PLOTTED: Wednesday, August 07, 2013 AT 04:37 PM
FILE T:\173124A-TrafficDesignServices\TRF\151\Plans\pSG-P001- MD 124 @ Bank St.dgn

BY: andrewes -