



- CONSTRUCTION DETAILS**
- INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH SINGLE 70 FT. MAST ARM CUT DOWN TO 60' WITH PLASTIC LED SIGNAL HEADS SIGNS, LED COUNTDOWN PEDESTRIAN SIGNAL HEAD SECTION, R10-4(1)MOD, PEDESTRIAN SIGN, 250 WATT HPS LUMINAIRE, 15 FT. LIGHTING ARM, AND TERRA VIDEO DETECTION CAMERAS AT STA. 117+35.7, 35' LT. (NOTE: ONE 3 IN. PVC SCHEDULE 80 CONDUIT BEND)
  - INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE, TWIN 50 FT. AND 70 FT. MAST ARMS, PLASTIC LED SIGNAL HEADS, SIGNS, 250 WATT HPS LUMINAIRE, 15 FT. LIGHTING ARM AND TERRA VIDEO DETECTION CAMERAS AT STA. 117+34, 75' RT. (NOTE: ONE 4 IN. PVC SCHEDULE 80 CONDUIT BEND)
  - INSTALL CONCRETE FOUNDATION WITH A 10 FT. STEEL PEDESTAL POLE WITH A BREAKAWAY BASE, LED COUNTDOWN PEDESTRIAN SIGNAL HEAD SECTION, R10-4(1)MOD, PEDESTRIAN SIGN, AUDIBLE/TACTILE PEDESTRIAN PUSH BUTTON STATION AND BLACK FACE PLATE OPTION "A" SIGN WITH INTERNATIONAL BRAILLE ON FACE PLATE AT STA. 116+43, 52' RT., 116+77, 113' RT. AND 117+84, 32' LT. (NOTE: ONE 3 IN. PVC SCHEDULE 80 CONDUIT BEND).
  - INSTALL 4 IN. SCHEDULE 80 ELECTRICAL CONDUIT TO EXISTING HANDHOLE - SLOTTED.
  - INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
  - INSTALL HANDHOLE.
  - INSTALL 24 IN. HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR STOP LINE.
  - INSTALL 12 IN. HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR CROSS WALKS.
  - PAVEMENT MARKING ARROWS - INSTALL BY OTHERS.
  - INSTALL NON-INVASIVE MICRO-LOOP PROBES WITH 1000 FT. LEAD-IN. (TO BE PLACED IN THE THRU LANES)
  - INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - SLOTTED.
  - INSTALL OVERHEAD VIDEO DETECTION CAMERA MOUNTED ON MAST ARM.
  - UNCOVER THE LED PEDESTRIAN SIGNAL HEAD AND SIGN INSTALLED IN PHASE 2.
  - USE EXISTING HANDHOLE.
  - USE EXISTING CONDUIT AND INSTALL SIGNAL CABLES.
  - USE EXISTING CABINET AND INSTALL SIGNAL CABLES.
  - USE EXISTING 200 AMP METER SERVICE PEDESTAL.
  - REMOVE EXISTING SIGNAL POLE, BACK GUYS, SIGNAL HEADS, VIDEO DETECTION CAMERAS, SIGNS, SPAN WIRE AND LIGHTING ARM.
  - REMOVE GROUND MOUNTED SIGN.
  - CAP AND ABANDON EXISTING CONDUIT.
  - VIDEO DETECTION ZONE.
  - INSTALL GROUND MOUNTED SIGN INSTALLED BY OTHERS.
  - INSTALL 1 INCH RIGID GALVANIZED CONDUIT - TRENCHED.
  - INSTALL CONCRETE FOUNDATION WITH 14 FT. STEEL PEDESTAL POLE, BREAKAWAY BASE AND SIGNAL HEAD AT STA. 309+30.20 RT. (NOTE: ONE 3 INCH PVC SCHEDULE 80 CONDUIT BEND)
- GENERAL NOTES**
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE END.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL UNUSED CABLES FROM ALL CONDUITS AND HANDHOLES.
  - ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATICS 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 UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
  - 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 818.40. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
  - THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.
  - VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
  - PUSHBUTTONS ARE TO BE LOCATED SO THAT CAN BE ACTIVATED BY A PERSON IN A WHEEL-CHAIR FROM A 60" X 60" LEVEL LANDING AREA. A LEVEL LANDING AREA IS AN AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
  - 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 SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
  - THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER 2 WEEKS PRIOR TO BEGINNING SIGNAL WORK TO ARRANGE FOR SHA SIGNAL INSPECTION.
  - ALL PROPOSED LUMINAIRES SHALL BE SUPPLIED WITH A PHOTOCELL.
  - REFER TO THE ROADWAY PLAN SHEET PS-3 FOR ALL ADA RAMP LOCATIONS AND INSTALLATION.
- GEOMETRIC LEGEND**
- EXISTING
- PROPOSED
- UTILITY LEGEND**
- SD --- STORM DRAIN
- GAS --- GAS MAIN
- WATER --- WATER MAIN
- SAN --- SEWER MAIN
- UG ELEC --- ELECTRIC CABLES
- A --- AERIAL CABLES
- UG TEL --- TELEPHONE CABLES
- UG FO --- FIBER-OPTIC
- APPROVALS**
- TEAM LEADER, T.E.D. REDLINE NO. 1 09/08/2011

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

LOTTSFORD, WOODMORE AND ENTERPRISE ROADS IMPROVEMENT PROJECT  
MD 193 (ENTERPRISE ROAD) AT LOTTSFORD ROAD / WOODMORE ROAD

GLENDALE, MARYLAND

**ULTIMATE SIGNAL PLAN**

SCALE 1"=20' DATE 8-1-90 CONTRACT NO. BW 328-802-312

DESIGNED BY \_\_\_\_\_ COUNTY PRINCE GEORGES

DRAWN BY W.J. NIES LOGMILE 16019316.58

CHECKED BY R.R. ZACHERL TMS NO. 1-952

FAP NO. NA TOD NO. NA

TS NO. 2672 F DRAWING pSG-P003 OF P003 SHEET NO. 128 OF 147

APPROVALS	REVISIONS
TEAM LEADER, TRAFFIC ENGINEERING DIVISION	B INTERSECTION IMPROVEMENT DUE TO ROADWAY WIDENING CONTRACT NO. 822-HD 01/2008
ASST. CHIEF TRAFFIC ENGINEERING DIVISION	C SWA
CHIEF TRAFFIC ENGINEERING DIVISION	D INSTALLED VIDEO CAMERA FOR DETECTION 1/1/2008
DIRECTOR, OFFICE OF TRAFFIC & SAFETY	E MODIFY SIDE STREET PHASING TO OPERATE SPLIT 9/1998
	NML DD DAZ

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