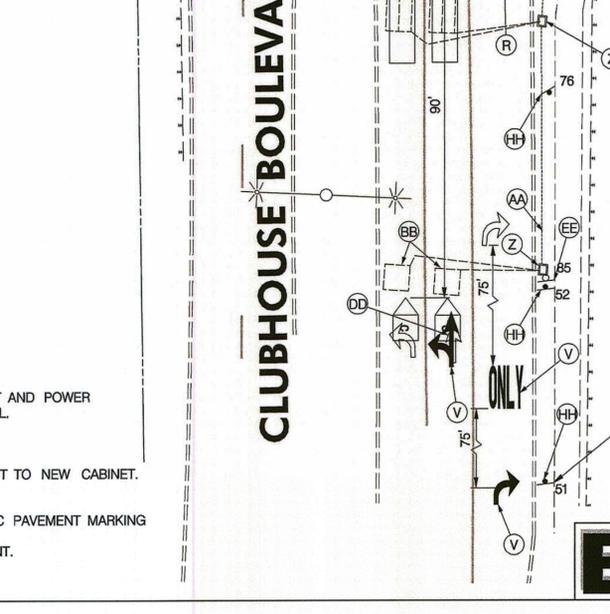


- EXISTING SIGNALS TO BE REMOVED**
- 30, 31, 32, 47, 33, 42
 - 43, 44, 49, 50, 66, 65, 67, 74, 72, 73
 - 80, 81, 82, 88, 89, 83, 84, 85, 86, 87
- EXISTING SIGNS TO REMAIN**
- 30, 31, 32, 47, 33, 42
 - 43, 44, 49, 50, 66, 65, 67, 74, 72, 73
 - 80, 81, 82, 88, 89, 83, 84, 85, 86, 87
- PROPOSED LED SIGNALS**
- 1, 2.5, 3, 6, 8, 4, 7
 - 9, 10
 - 12", 12", 8", 12"
- PROPOSED SIGNS**
- 34, 59, 35, 69, 75, 36, 38, 37, 39, 40a, 40b, 41, 76
 - 48a, 48b, 48, 68, 48a, 48b
 - 53, 55, 56
 - 54a, 54b
- NEMA PHASING**
- 01, 02, 04, 05, 06, 04 ALT, 05, 06, 02, 70, 61, 63, 71
- FLASHING OPERATION**
- PRE-EMPTION 1, PRE-EMPTION 2
- CONSTRUCTION DETAILS:**
- INSTALL CONCRETE FOUNDATION FOR A 27 FT. STEEL POLE WITH A SINGLE 70 FT. MAST ARM, LED TRAFFIC SIGNAL HEADS, SIGNS, VIDEO DETECTION CAMERA, OPTICOM DETECTION EYE, 15 FT LIGHTING ARM, 250 WATT HPS LUMINAIRE AND PHOTOCELL. (NOTE: INSTALL 1-3 IN. PVC SCHEDULE 80 CONDUIT BEND).
 - INSTALL CONCRETE FOUNDATION FOR A 27 FT. STEEL POLE WITH TWIN 70x50 FT. MAST ARMS, LED TRAFFIC SIGNAL HEADS, SIGNS, VIDEO DETECTION CAMERAS, OPTICOM DETECTION EYE, 15 FT LIGHTING ARM, 250 WATT HPS LUMINAIRE AND PHOTOCELL. INSTALL AUDIBLE TACTILE PUSHBUTTON AND SIGN. (NOTE: INSTALL 1-3 IN. PVC SCHEDULE 80 CONDUIT BEND).
 - INSTALL 20' PEDESTAL POLE WITH BREAKAWAY BASE, LED TRAFFIC SIGNAL HEAD, AUDIBLE TACTILE PUSHBUTTON AND SIGN. (NOTE: INSTALL 1-3 IN. PVC SCHEDULE 80 CONDUIT BEND).
 - INSTALL 10' PEDESTAL POLE WITH BREAKAWAY COUPLINGS (MD 818.16-01), MODIFIED BASE, COUNTDOWN PEDESTRIAN SIGNAL, AUDIBLE TACTILE PUSHBUTTON AND SIGN. (NOTE: 1-2 IN. PVC SCHEDULE 80 CONDUIT BEND).
 - INSTALL NEMA S BASE-MOUNTED CABINET AND CONTROLLER WITH ALL NECESSARY EQUIPMENT AS SHOWN. (NOTE: INSTALL 2-2 IN. AND 2-4 IN. PVC SCHEDULE 80 CONDUIT BENDS).
 - INSTALL METERED SERVICE PEDESTAL EMBEDDED. (NOTE: INSTALL 2-2 IN. AND 1-4 IN. PVC SCHEDULE 80 CONDUIT BENDS).
 - INSTALL HANDHOLE.
 - INSTALL HANDHOLE ORIENTED FOR NON-INVASIVE PROBES.
 - INSTALL NON-INVASIVE DETECTOR AND LEAD IN CABLE.
 - INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - BORED.
 - INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - BORED.
 - INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
 - INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
 - INSTALL 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
 - INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - BORED, PROVIDE CONDUIT BEND AT THE BASE OF UTILITY POLE.
 - INSTALL 24 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR STOP LINE.
 - INSTALL GROUND MOUNTED SIGN WITH ONE 4"x6" WOOD POST.
 - INSTALL GROUND MOUNTED SIGN WITH TWO 4"x6" WOOD POSTS.
 - INSTALL HANDHOLE ON EXISTING CONDUIT.
 - INSTALL WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LEGENDS AND SYMBOLS.
- GENERAL NOTES:**
- VIDEO CAMERA LOCATION ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
 - THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
 - ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH SHA STANDARDS.
 - SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINET. ALL OTHER EXISTING SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE SIGNAL.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
 - 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.
 - 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.
 - THE CONTRACTOR SHALL CONTACT ED RODENHIZER AT THE SIGNAL SHOP (410) 787-7650 TO DELIVER APS EQUIPMENT FOR TESTING.
 - ALL UNUSED CABLES SHALL BE REMOVED AND DISPOSED OF.



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APPROVALS

APPROVED: *[Signature]* 5/17/2012
TEDD APPROVAL

REVISIONS

NO.	DATE	DESCRIPTION
1	01/12/12	TIMS-8008 SHA NO. XX4395185 INSTALL APS/CPFS FOR NORTH LEG. SIGNAL RECONSTRUCTION
2	09/23/04	0492 AT6045185 INSTALL OPTICOM PRE-EMPTION
3	11/03/03	PG480A21 DETECTOR REPLACEMENT DUE TO ROAD RESURFACING.

SHA STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION
 OFFICE OF TRAFFIC & SAFETY
 TRAFFIC ENGINEERING DESIGN DIVISION
 MD 197 (LAUREL-BOWIE ROAD) AT
 BOWIE ROAD/CLUBHOUSE BOULEVARD
 LAUREL, MD

SIGNALIZATION PLAN SHEET

SCALE: 1" = 20' ADVERTISED DATE: 03/1990 CONTRACT NO. _____

DESIGNED BY: J. MALINOWSKI COUNTY: PRINCE GEORGE'S
 DRAWN BY: L. TAUBER LOGMILE: 016019714.14
 CHECKED BY: _____ TIMS NO. _____
 F.A.P. NO. N/A TOD NO. _____

TS NO. 2623C DRAWING - OF SHEET NO. 1 OF 3

PLOTTED: Friday, May 04, 2012 AT 01:12 PM
 FILE: P:\09-002 TEDD\Task 09 MD 197 @ Bowie Rd\Drawings\CADD\Working\p50-MD197@CLUBHOUSE.dgn

BY: davidma