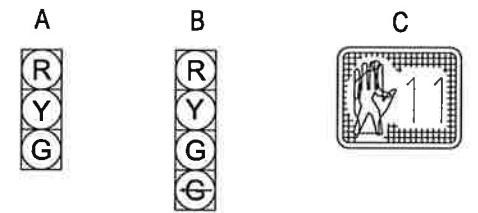


| LEGEND OF SYMBOLS |                              |
|-------------------|------------------------------|
|                   | VIDEO DETECTION ZONES        |
|                   | SIGNAL POLE/MAST ARM SET UP  |
| 2                 | SIGNAL HEAD NUMBERS          |
|                   | CONTROLLER CABINET           |
|                   | GROUND BOX TYPE D (LG)       |
|                   | GROUND BOX TYPE E (SM)       |
|                   | LUMINAIRE                    |
| Ø2                | PHASE NUMBERS                |
| T-2               | POLE NUMBERS                 |
|                   | CONDUIT RUN NUMBERS          |
| R.O.W.            | RIGHT OF WAY LINES           |
|                   | VIVDS CAMERA                 |
|                   | ELECTRICAL SERVICE           |
|                   | OPTICOM                      |
|                   | MAST ARM MOUNTED SIGN        |
|                   | WIRELESS ETHERNET SUBSCRIBER |

SIGNAL HEAD TYPES



V3 PED  
V4LT\* (WITH COUNTDOWN)  
\*WITH BI-MODAL YELLOW AND GREEN ARROWS.

ELECTRICAL SERVICE DATA

| ELECTRICAL SERVICE DESCRIPTION<br>SEE ED(4) | SERVICE CONDUIT<br>SIZE (RMC) | SERVICE CONDUCTORS<br>NO. / SIZE | MAIN<br>CIRCUIT<br>BREAKER<br>POLE / AMP | TWO-POLE<br>CONTACTOR<br>AMPS | PANELBO/LOADCENTER<br>AMP RATING<br>(MIN) | CIRCUIT<br>NO. | BRANCH<br>CIR. BRK<br>POLE/AMPS | KVA LOAD |
|---|-------------------------------|----------------------------------|--|-------------------------------|---|----------------|---------------------------------|----------|
| TY D (120/240) 70 (N) 88 (E) P5 (V)         | 2"                            | 3 / #6                           | 2P / 100                                 | 30                            | 100                                       | T.S.<br>ILSN   | 1P / 50<br>2P / 20              | < 7.1    |

NOTES:

- 1) SALVAGE EXISTING SIGNAL EQUIPMENT. RETURN TO TOWN OF ADDISON.
- 2) ALL POLES AND MAST ARMS TO BE POWDER COAT SILVER TO MATCH BELT LINE STREET LIGHTS.
- 3) ALL MAST ARM MOUNTED SIGNS SHALL HAVE HIGH INTENSITY PRISMATIC (HIP) SHEETING.
- 4) RELOCATE EXISTING STREET NAME SIGNS TO NEW POLES/MAST ARMS.
- 5) FURNISH AND INSTALL A 10' POLE EXTENSION ON T-1 SIGNAL ARM. CONTRACTOR TO INSTALL TOWN SUPPLIED WIRELESS ETHERNET SUBSCRIBER ON THE POLE EXTENSION. CONTRACTOR SHALL AIM THE ETHERNET SUBSCRIBER UNIT AS DIRECTED BY THE TOWN ENGINEER. WIRELESS RADIO TO BE MOUNTED BY OPTICOM HEAD ON T-1.
- 6) CONTRACTOR SHALL FURNISH AND INSTALL THE VIDEO SERVER AND HARDENED ETHERNET SWITCH INSIDE THE TRAFFIC SIGNAL CONTROLLER CABINET.
- 7) THE VIDEO SERVER SHALL BE INSTALLED BETWEEN THE VIVDS PROCESSOR AND HARDENED ETHERNET SWITCH (POLE T-1).
- 8) REMOVE ALL EXISTING FIELD WIRING AFTER NEW SIGNALS ARE PUT INTO SERVICE.
- 9) ALL EXISTING PULL BOXES TO TO BE REMOVED AND ABANDONED CONDUIT TO BE CUT AND CAPPED. SALVAGED PULL BOXES TO BE RETURNED TO TOWN OF ADDISON.

| SIGNAL POLE CHART      |              |   |   |   |    |        |   |   |    |    |              |    |    |    |    |        |    |    |    |    |
|------------------------|--------------|---|---|---|----|--------|---|---|----|----|--------------|----|----|----|----|--------|----|----|----|----|
| POLE NUMBER            | T-1          |   |   |   |    | T-2    |   |   |    |    | T-3          |    |    |    |    | T-4    |    |    |    |    |
| MAST ARM LENGTH        | 55'          |   |   |   |    | 28'    |   |   |    |    | 55'          |    |    |    |    | 24'    |    |    |    |    |
| FOUNDATION TYPE        | 48-A         |   |   |   |    | 30-A   |   |   |    |    | 48-A         |    |    |    |    | 30-A   |    |    |    |    |
| WITH LUMINAIRES        | NO           |   |   |   |    | NO     |   |   |    |    | NO           |    |    |    |    | NO     |    |    |    |    |
| MAST ARM SIGNS         | R3-4, R10-12 |   |   |   |    | R10-12 |   |   |    |    | R3-4, R10-12 |    |    |    |    | R10-12 |    |    |    |    |
| SIZE OF LENS           | 12"          |   |   |   |    |        |   |   |    |    |              |    |    |    |    |        |    |    |    |    |
| SIGNAL TYPE            | B            | A | A | A | C  | C      | B | A | C  | C  | B            | A  | A  | A  | C  | C      | B  | A  | C  | C  |
| SIGNAL FACE NO.        | 1            | 2 | 3 | 4 | 5  | 6      | 7 | 8 | 9  | 10 | 11           | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 |
| LED SIGNAL INDICATIONS | R            | R | R | R | DW | DW     | R | R | DW | DW | R            | R  | R  | R  | DW | DW     | R  | R  | DW | DW |
|                        | Y            | Y | Y | Y | W  | W      | Y | Y | W  | W  | Y            | Y  | Y  | Y  | W  | W      | Y  | Y  | W  | W  |
|                        | G            | G | G | G |    |        | G | G |    |    | G            | G  | G  | G  |    |        | G  | G  |    |    |

ALL SIGNAL HEADS SHALL HAVE BLACK PLASTIC BACK PLATES.  
LEFT-TURN INDICATIONS WILL CONSIST OF 4 SECTION HEADS WITH BI-MODAL YELLOW AND GREEN ARROWS.  
ALL MAST ARMS WILL HAVE LED ILLUMINATED STREET NAME SIGNS.



S.P. Booth, P.E. 1/24/2014  
Signature of Registrant Date

|   |          |       |           |
|---|----------|-------|-----------|
| NO.   | REVISION | BY    | DATE      |
| TOWN OF ADDISON<br>DALLAS COUNTY, TEXAS<br>BELT LINE ROAD<br>UNDERGROUND ELECTRICAL<br>PROPOSED TRAFFIC SIGNAL LAYOUT<br>BELT LINE RD AT COMMERCIAL DR<br>1201 NORTH BOWSER ROAD, RICHARDSON, TEXAS 75081-2275<br>TEL (214) 346-6200 FAX (214) 738-0095 |          |       |           |
| PROJECT   | DESIGN   | DRAWN | DATE      |
| 29350   | HALFF    | HALFF | NOV. 2013 |
| FILE  | SHEET    |       |           |
| 29350 SG_NL_03  | TS-3     |       |           |