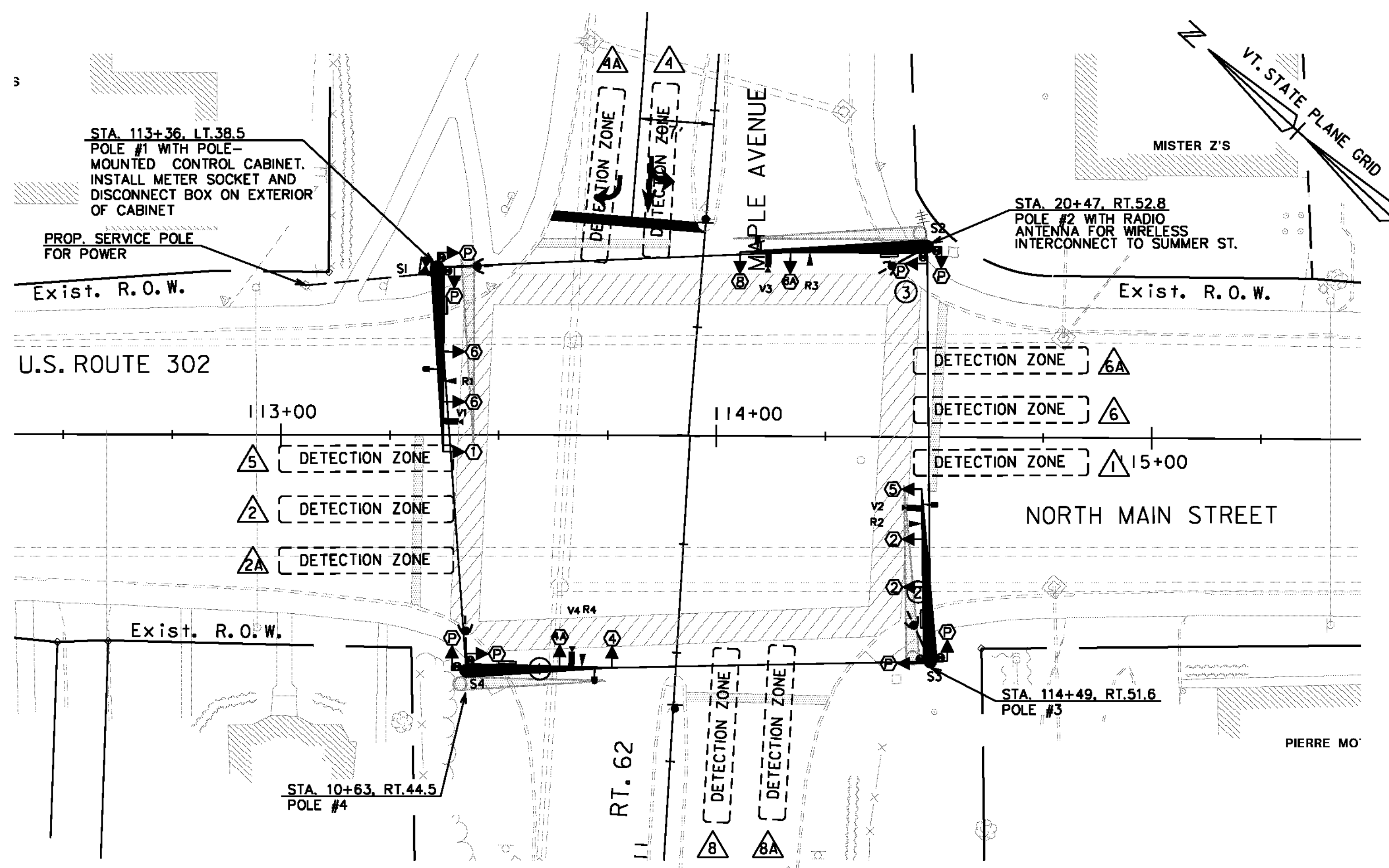


3



**2009 AVERAGE WEEKDAY TRAFFIC DATA**

|     |     |     |     |
|-----|-----|-----|-----|
|     | AM  | PM  | DHV |
| DHV | 95  | 85  | 55  |
| PM  | 445 | 410 | 260 |
| AM  | 10  | 10  | 5   |

|     |     |     |     |
|-----|-----|-----|-----|
|     | AM  | PM  | DHV |
| DHV | 35  | 85  | 95  |
| PM  | 420 | 365 | 395 |
| AM  | 350 | 290 | 315 |

|     |     |     |     |
|-----|-----|-----|-----|
|     | AM  | PM  | DHV |
| DHV | 5   | 5   | 5   |
| PM  | 270 | 250 | 60  |
| AM  | 350 | 325 | 80  |

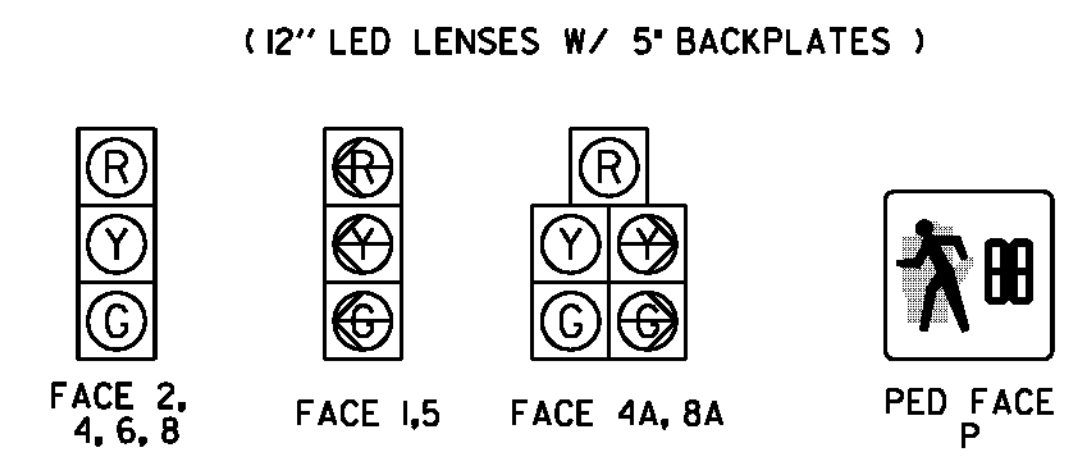
**LIST OF MAJOR EQUIPMENT**

| EQUIPMENT ITEM 678.J5  | QUANTITY |
|--|----------|
| ECONOLITE TRAFFIC SIGNAL CONTROLLER  | 1        |
| ECONOLITE 'M' POLE MOUNTED CONTROLLER CABINET PAINTED FLAT BLACK WITH ANCILLARY CONTROL EQUIPMENT  | 1        |
| FLAT BLACK PAINTED STEEL MAST ARM SIGNAL POLE WITH 42 FOOT MAST ARM AND 8 FOOT LIGHTING BRACKET ARM (POLE #1)  | 1        |
| FLAT BLACK PAINTED STEEL MAST ARM SIGNAL POLE WITH 42 FOOT MAST ARM AND 8 FOOT LIGHTING BRACKET ARM (POLE #2)  | 1        |
| FLAT BLACK PAINTED STEEL MAST ARM SIGNAL POLE WITH 40 FOOT MAST ARM AND 8 FOOT LIGHTING BRACKET ARM (POLE #3)  | 1        |
| FLAT BLACK PAINTED STEEL MAST ARM SIGNAL POLE WITH 33 FOOT MAST ARM AND 8 FOOT LIGHTING BRACKET ARM (POLE #4)  | 1        |
| ONE WAY, 3-SECTION, 12-INCH POLYCARBONATE MAST ARM MOUNTED LED TRAFFIC SIGNAL HEAD WITH TUNNEL VISORS AND LOUVERED BACKPLATES WITH ALL PIECES PAINTED FLAT BLACK | 8        |
| ONE WAY, 5-SECTION, 12-INCH POLYCARBONATE MAST ARM MOUNTED LED TRAFFIC SIGNAL HEAD WITH TUNNEL VISORS AND LOUVERED BACKPLATES WITH ALL PIECES PAINTED FLAT BLACK | 2        |
| POLE MOUNTED 16-INCH LED COUNTDOWN PEDESTRIAN SIGNAL HEAD  | 8        |
| VTRANS SPEC ACCESSIBLE PEDESTRIAN PUSH BUTTONS WITH RIO-3e TYPE SIGN ASSEMBLY AND AUDIBLE INDICATORS   | 8        |
| ASTRO-BRACKETS   | 10       |
| OPTICAL DETECTION SENSOR WITH DETECTOR CABLES  | 4        |
| WIRELESS RADIO INTERCONNECT SYSTEM   | 1        |
| EMERGENCY VEHICLE PREEMPTION RECEIVER  | 4        |
| EMERGENCY VEHICLE PREEMPTION 4-CHANNEL PHASE SELECTOR AND CHASSIS  | 1        |
| EMERGENCY VEHICLE PREEMPTION STROBE  | 4        |

**WIRED CONDUIT (PVC) AND ELECTRICAL CONDUIT SLEEVE SCHEDULE**

| ITEM NUMBER   | 678.23   |               | 678.30         | DESCRIPTION           |
|---|----------|---------------|----------------|-----------------------|
|   | NOT USED | WIRED CONDUIT | CONDUIT SLEEVE |                       |
| FROM/TO   |          | 3" 4"         | 8"             |                       |
| POWER TO CABINET  |          | 36            |                | CONDUIT TO POWER POLE |
| VEHICULAR AND PEDESTRIAN TRAFFIC SIGNAL CABLE, PUSH BUTTON DETECTOR CABLE, VIDEO DETECTION CABLE, EMERGENCY VEHICLE PREEMPTION EQUIPMENT CABLES, AND RADIO INTERCONNECT ANTENNA CABLE SHALL BE LASHED TO SPAN WIRES BETWEEN MAST ARM POLES. SUFFICIENT SLACK CABLE SHALL BE SUPPLIED TO PERMIT TEMPORARY SIGNAL HEAD ADJUSTMENTS (TO BE CONDUCTED BY OTHERS) AS SHOWN IN THE SIGNAL CROSS-SECTIONS. |          |               |                |                       |
| SUB-TOTALS  |          | 36            |                |                       |
| ROUNDING  |          | 4             |                |                       |
| TOTALS  |          | 40            | 0              | 0                     |

**SIGNAL FACE ARRANGEMENT**



**EQUIPMENT NOTES**

- (A) SEE STANDARDS E-170, E-171A, E-171B, 171C, 173, & 175 FOR ADDITIONAL INFORMATION.
- (B) SEE TRAFFIC SIGNAL NOTES ON SHEETS 46, 47 & 49 AND SINGLE MAST ARM CANTILEVER/FOOTING DETAIL SHEET 50 FOR ADDITIONAL INFORMATION.
- (C) MAST ARM POLE EXTENSION SHALL BE INCLUDED FOR ALL FOUR SIGNAL POLES AS SHOWN ON SHEETS 51 & 52. SEE SHEET 48 FOR ADDITIONAL NOTES ON POLE AND FOUNDATION DESIGN CRITERIA.
- (D) TRAFFIC SIGNAL EQUIPMENT WIRING SHALL BE SPAN WIRE MOUNTED AT LEAST THREE FEET (3') ABOVE MAST ARM MOUNTED SIGNAL EQUIPMENT. A WEATHERHEAD SHALL BE PROVIDED ON EACH SIGNAL POLE FOR SIGNAL CABLE ENTRANCE.
- (E) FOR SIGN DETAILS, SEE SHEETS 36 THROUGH 45.
- (F) SEE SHEET 70 FOR ADDITIONAL DETAILS FOR TRAFFIC CONTROL, CONSTRUCTION, AND PHASING.

**DETECTION SCHEDULE**

| INCIDENTAL TO ITEM 678.J5 |      |        |      |                  |                   |              |
|---------------------------|------|--------|------|------------------|-------------------|--------------|
| OPTICAL VIDEO DETECTORS   |      |        |      |                  |                   |              |
| LOOP NO.                  | LANE | CALL # | SIZE | TYPE & NO. TURNS | DELAY OR PRESENCE | SLOT CHANNEL |
| ▲                         | WBLT | 1      | 6X40 | OPTICAL          | PRESENCE          | 2 1          |
| ▲                         | EBTH | 2      | 6X40 | OPTICAL          | PRESENCE          | 4 2          |
| ▲                         | SBLT | 2      | 6X40 | OPTICAL          | 5 SEC DELAY       | 4 3          |
| ▲                         | SBRT | 4      | 6X40 | OPTICAL          | PRESENCE          | 6 1          |
| ▲                         | EBLT | 4      | 6X40 | OPTICAL          | 5 SEC DELAY       | 6 2          |
| ▲                         | WBTH | 5      | 6X40 | OPTICAL          | PRESENCE          | 4 1          |
| ▲                         | NBLT | 6      | 6X40 | OPTICAL          | PRESENCE          | 2 2          |
| ▲                         | NBRT | 6      | 6X40 | OPTICAL          | 5 SEC DELAY       | 2 3          |
| ▲                         | NBLT | 8      | 6X40 | OPTICAL          | PRESENCE          | 8 1          |
| ▲                         | NBRT | 8      | 6X40 | OPTICAL          | 5 SEC DELAY       | 8 2          |

**LEGEND**

| NEW | LEGEND                                |
|-----|---------------------------------------|
| CC  | CONTROLLER CABINET                    |
| →   | SIGNAL HEAD                           |
| ▭   | OPTICAL DETECTION ZONE                |
| ●   | PEDESTAL POST                         |
| ⊕   | STANCHION                             |
| —S  | SPARE SWEEP                           |
| ⚡   | EMERGENCY VEHICLE PREEMPTION STROBE   |
| ←   | EMERGENCY VEHICLE PREEMPTION RECEIVER |
| —   | PROPOSED MAST ARM                     |
| ●   | PEDESTRIAN PUSH BUTTON                |
| ⊕   | OVERHEAD SIGN                         |
| ⊕   | RADIO ANTENNA                         |
| ▭   | OPTICAL DETECTION                     |
| —   | EXISTING MAST ARM                     |

**NORTH MAIN ST AND MAPLE AVE / RT 62**

|                                |                                      |
|--------------------------------|--------------------------------------|
| PROJECT NAME: BARRE CITY       | PROJECT NUMBER: FECC F 026-(134) C/1 |
| FILE NAME: z09B240_TSPSI.dgn   | PLOT DATE: 4/5/2010                  |
| PROJECT LEADER: G. BAKOS       | DRAWN BY: DMP / JAR                  |
| DESIGNED BY: DMP / MDS         | CHECKED BY:                          |
| TRAFFIC SIGNAL PLAN 1, SHEET 1 | SHEET 48 OF 95                       |

|            |           |
|------------|-----------|
| DATUM      |           |
| VERTICAL   | NAVD 1929 |
| HORIZONTAL | NAD 27    |

