## MATERIAL USED

| ITEM | UNIT | DESCRIPTION | QTY. |
|---|---|---|---|
| 625 | EACH | CONNECTOR KIT, TYPE VIII, CU | 3 |
| 625 | EACH | LIGHT POLE FOUNDATION, 24"X6' DEEP, APP | 1 |
| 625 | LIN.FT. | CONDUIT, 713.04, 1" | 425 |
| 625 | LIN.FT. | CONDUIT, 713.04, 1-1/2" | 506 |
| 625 | LIN.FT. | CONDUIT, 713.04, 2" | 60 |
| 625 | LIN.FT. | CONDUIT, 713.04, 3" | 14 |
| 625 | LIN.FT. | CONDUIT JACKED OR DRILLED UNDER PAVEMENT, 2" | 128 |
| 625 | EACH | PULL BOX, 713.08, 18" | 14 |
| 625 | EACH | GROUND ROD, APP | 3 |
| 630 | SQ.FT. | SIGN ERECTED, FLAT SHEET, APP | 25 |
| 632 | EACH | VEHICULAR SIGNAL HEAD, 3-SECTION, 12" LENS, 1-WAY | 6 |
| 632 | EACH | VEHICULAR SIGNAL HEAD, 5-SECTION, 12" LENS, 1-WAY | 1 |
| 632 | EACH | LOOP DETECTOR UNIT, DELAY AND EXTENSION TYPE | 7 |
| 632 | LIN.FT. | LOOP DETECTOR PAVEMENT CUTTING, APP | 722 |
| 632 | LIN.FT. | MESSENGER WIRE, 7-STRAND, 1/4" DIAMETER WITH ACCESSORIES (TETHER) | 138 |
| 632 | LIN.FT. | MESSENGER WIRE, 7-STRAND, 3/8" DIAMETER WITH ACCESSORIES | 138 |
| 632 | LIN.FT. | SIGNAL CABLE, 5/C, #14 AWG | 402 |
| 632 | EACH | STRAIN POLE FOUNDATION, APP | 2 |
| 632 | LIN.FT. | LOOP DETECTOR LEAD-IN CABLE, 2/C, NO. 14 AWG | 1610 |
| 632 | LIN.FT. | POWER CABLE, 2/C, NO. 6 AWG | 15 |
| 632 | LIN.FT. | POWER CABLE, 3/C, NO. 6 AWG | 35 |
| 632 | LIN.FT. | SERVICE CABLE, 3/C, NO. 6 AWG | 200 |
| 632 | EACH | POWER SERVICE, APP * | 2 |
| 632 | EACH | CONDUIT RISER, 1" DIAMETER | 5 |
| 632 | EACH | METER BASE, 100 AMP W/ BYPASS | 1 |
| 632 | EACH | STEEL STRAIN POLE, 7.5" DIA., 10.5" BOLT CIRCLE, 11 GAUGE, 15', APP | 1 |
| 632 | EACH | STRAIN POLE, TYPE TC-81.10, DESIGN 10, 32 FEET, INSTALLATION ONLY | 2 |
| 632 | LIN.FT. | LOOP DETECTOR WIRE, TYPE E, APP | 2234 |
| 633 | SQ.FT. | CONTROLLER WORKPAD (4'X3') | 12.0 |
| 633 | EACH | CONTROLLER, ACTUATED, 8-PHASE, SOLID-STATE DIGITAL MICROPROCESSOR | 1 |
| 642 | LIN.FT. | STOP LINE, TYPE 2 | 80 |

* NON PERFORM METER BASE INSTALLATION @ POLE P-1.

## PHASING IDENTIFICATION

| PHASE 1 | PHASE 2 | NOT USED | PHASE 3 | PHASE 4 |
|---|---|---|---|---|
| NOT USED | PHASE 6 | NOT USED | NOT USED | |
| PHASE 5 | | PHASE 7 | PHASE 8 | |



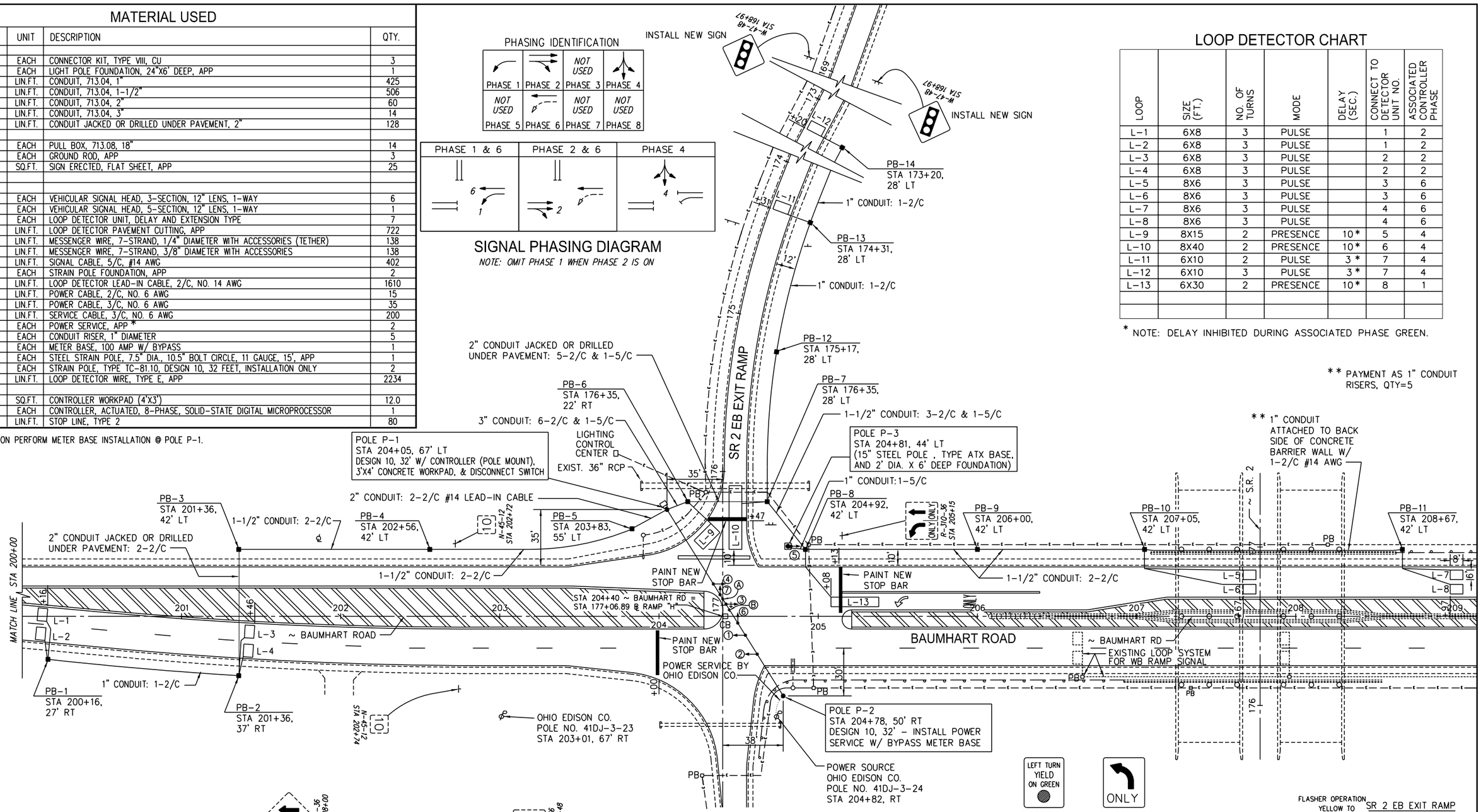

## SIGNAL PHASING DIAGRAM

*NOTE: OMIT PHASE 1 WHEN PHASE 2 IS ON*

## LOOP DETECTOR CHART

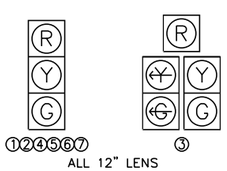
| LOOP | SIZE (FT.) | NO. OF TURNS | MODE | DELAY (SEC.) | CONNECT TO DETECTOR UNIT NO. | ASSOCIATED CONTROLLER PHASE |
|---|---|---|---|---|---|---|
| L-1 | 6X8 | 3 | PULSE | | 1 | 2 |
| L-2 | 6X8 | 3 | PULSE | | 1 | 2 |
| L-3 | 6X8 | 3 | PULSE | | 2 | 2 |
| L-4 | 6X8 | 3 | PULSE | | 2 | 2 |
| L-5 | 8X6 | 3 | PULSE | | 3 | 6 |
| L-6 | 8X6 | 3 | PULSE | | 3 | 6 |
| L-7 | 8X6 | 3 | PULSE | | 4 | 6 |
| L-8 | 8X6 | 3 | PULSE | | 4 | 6 |
| L-9 | 8X15 | 2 | PRESENCE | 10* | 5 | 4 |
| L-10 | 8X40 | 2 | PRESENCE | 10* | 6 | 4 |
| L-11 | 6X10 | 2 | PULSE | 3 * | 7 | 4 |
| L-12 | 6X10 | 3 | PULSE | 3 * | 7 | 4 |
| L-13 | 6X30 | 2 | PRESENCE | 10* | 8 | 1 |

* NOTE: DELAY INHIBITED DURING ASSOCIATED PHASE GREEN.




** PAYMENT AS 1" CONDUIT RISERS, QTY=5

FLASHER OPERATION
YELLOW TO SR 2 EB EXIT RAMP
RED TO BAUMHART ROAD
SIGNAL NO. LOR-2-0332S
INSTALLATION DATE 6-8-2000
FILE NO. 4425
OSIS NO. 518




ALL 12" LENS

## TYPICAL SIGNAL HEADS

0 30 60
SCALE

| DATE | REVISIONS | DATE INSTALLED |
|---|---|---|
| 9-25-06 | REVISED PHASE DIAGRAM TO SHOW BACKUP PROTECTION | 6-8-00 |
| 10-27-09 | UPDATED DRAWING TO SHOW TETHER WIRE | 6-8-00 |
| 3-2-10 | CORRECTED SIGNAL HEAD QTYS IN MATERIAL LIST | - |

OHIO DEPARTMENT OF TRANSPORTATION

*ELECTRICAL INSTALLATION LOCATED AT*

# SR 2 EB Ramp @ Baumhart Rd

## Signal No. LOR-2-0332S

DISTRICT 3 COUNTY LORAIN

DRAWING NO.

| DESIGNED | DRAWN | REVISED | CHECKED | REVIEWED |
|---|---|---|---|---|
| RJR 12/99 | RJR 12/99 | RJR 2/00 | | |

DESIGN FILE: I:\FIELDINV\ELECTRICAL\SIGNAL\DWG\L2EBaum.dwg
WORKSTATION: rroney DATE: 3/2/2010