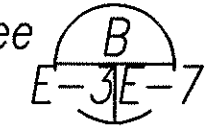
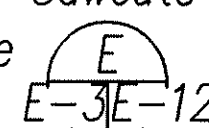
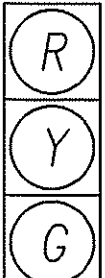
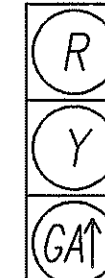
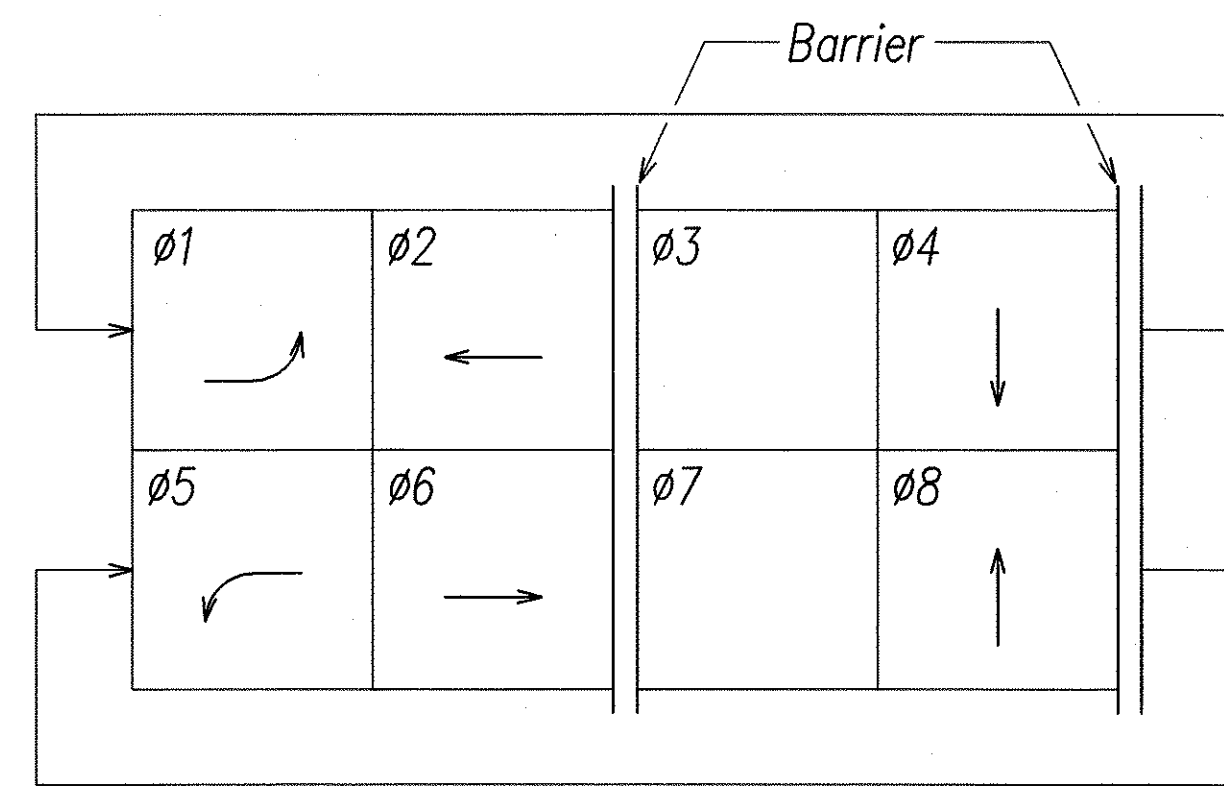


| FED. ROAD DIST. NO. | STATE | PROJ. NO.   | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | HWY-M-05-04 | 2004        | 12        | 33           |

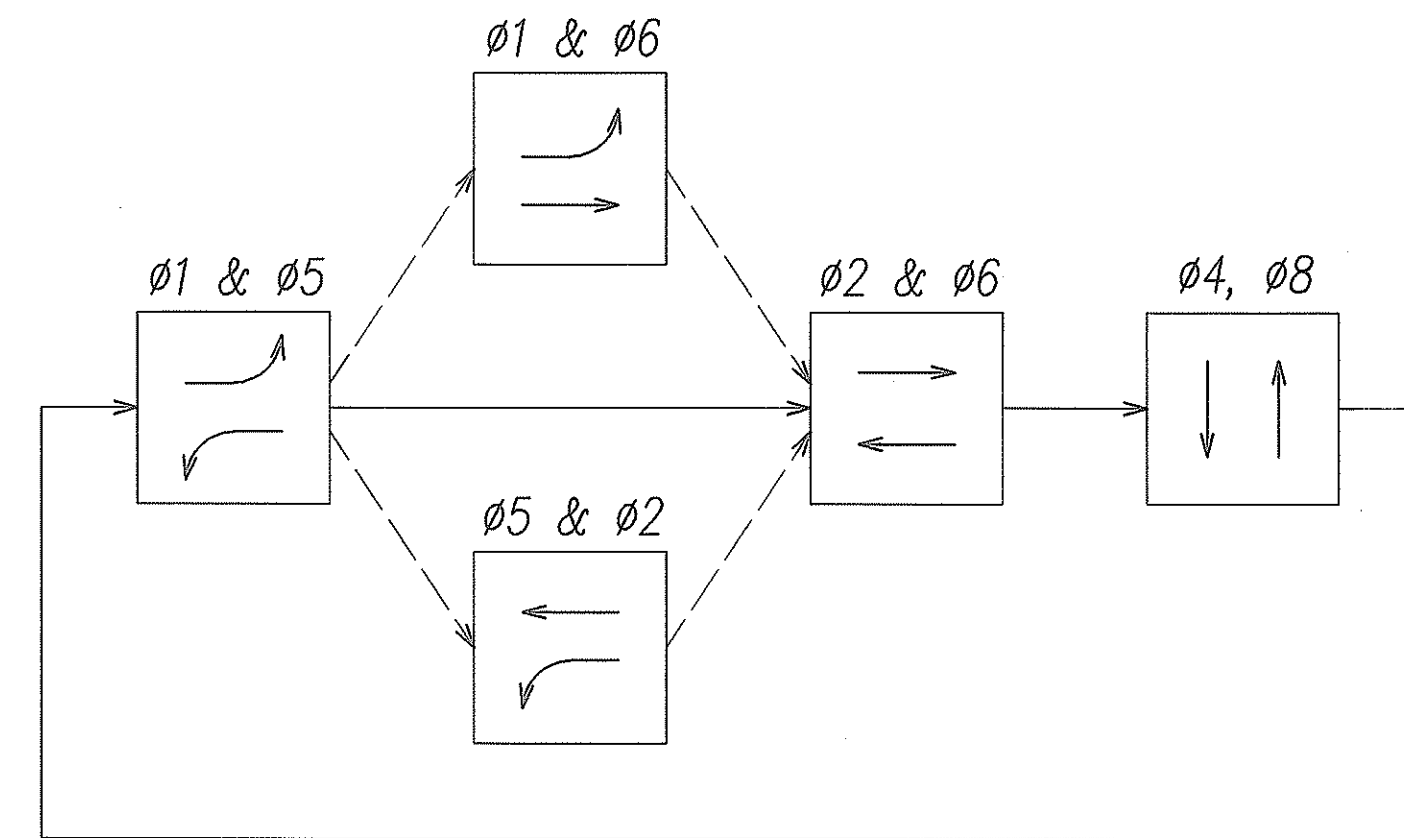
- NOTES:
- 1 Sawcut Exst A.C. Pavement Prior to Trenching & Repair to Match Exst, See Sht E-5
  - 2 3"C Elec Service Riser (+10'-0") & 2"C Tel Riser (to HTCO N.I.D. Located Approx. +20'-0"), See 
  - 3 Install UTS Antenna at Top of Pole with S.S. Bands
  - 4 For Sawcuts at Exst Conc Box Drain, See 
  - 5 Uncoil HTCO Furnished Cable Located at HTCO N.I.D. and Install Cable to Traffic Signal Controller

|                                                                                      |                                                                                   |                                                                                   |                                                                                   |
|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Signal Head<br>(L.E.D. Signal Assembly Except for Programmed Visibility Signal Head) |  |  |  |
| Symbol                                                                               | ↑                                                                                 | ↑ OR ↑                                                                            | ↑ OR ↑                                                                            |
| Designation                                                                          | A-1 E-3<br>B-3 E-4<br>B-4 F-1<br>B-5<br>C-1<br>D-1                                | A-2<br>*B-1<br>D-2<br>*E-1                                                        | B-2<br>E-2                                                                        |

\* Denotes Programmed Visibility Signal Head



PHASE ASSIGNMENT DIAGRAM



PHASE SEQUENCE

| Conduit              | Cable              |
|----------------------|--------------------|
| 2"                   | 1-26/C #14, #8 Gnd |
| 3-2"                 | Pullwire           |
| Typ Duct Section S-B |                    |

| Conduit              | Cable     |
|----------------------|-----------|
| 2"                   | 1-2/C #14 |
| Typ Duct Section S-A |           |

| Conduit              | Cable              |
|----------------------|--------------------|
| 2"                   | 1-26/C #14, #8 Gnd |
| 2"                   | 4-2/C #14          |
| 2"                   | 1-Opticom Cable    |
| 2"                   | Pullwire           |
| Typ Duct Section S-B |                    |

| Conduit              | Cable     |
|----------------------|-----------|
| 2"                   | 4-2/C #14 |
| Typ Duct Section S-A |           |

| Conduit              | Cable     |
|----------------------|-----------|
| 2"                   | 1-2/C #14 |
| Typ Duct Section S-A |           |

| Conduit              | Cable                    |
|----------------------|--------------------------|
| 2"                   | 1-26/C #14, #8 Gnd       |
| 2"                   | 1-2/C #14                |
| 2"                   | 1-Opticom Cable          |
| 2"                   | Pullwire                 |
| 2"                   | Pullwire; Cables by MECO |
| Typ Duct Section S-B |                          |

| Conduit              | Cable                        |
|----------------------|------------------------------|
| 3"                   | 2-26/C #14, #8 Gnd           |
| 2-2"                 | 5-2/C #14                    |
| 2"                   | 2-Opticom Cables             |
| 2"                   | Install HTCO Furnished Cable |
| 2-2", 3"             | Pullwire                     |
| Typ Duct Section S-B |                              |

| Conduit              | Cable     |
|----------------------|-----------|
| 2"                   | 4-2/C #14 |
| 2"                   | Pullwire  |
| Typ Duct Section S-A |           |

| Conduit              | Cable                        |
|----------------------|------------------------------|
| 2"                   | Pullwire; Cables by MECO     |
| 2"                   | Install HTCO Furnished Cable |
| Typ Duct Section S-D |                              |

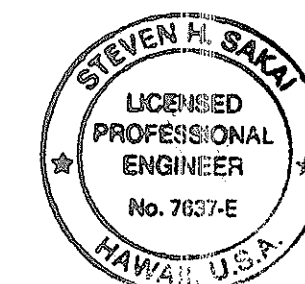
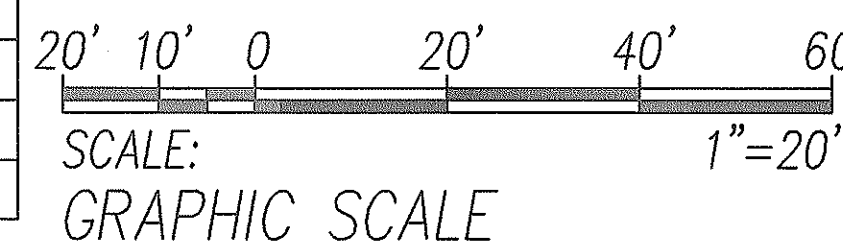
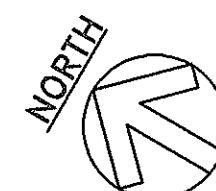
| Conduit              | Cable                        |
|----------------------|------------------------------|
| 2"                   | 1-26/C #14, #8 Gnd           |
| 2"                   | 5-2/C #14                    |
| 2"                   | 2-Opticom Cables             |
| 2"                   | Install HTCO Furnished Cable |
| 2"                   | Pullwire; Cables by MECO     |
| Typ Duct Section S-B |                              |

- 5 2 Exst Utility Joint Pole #89

# PIILANI HWY/KANANI ROAD - TRAFFIC SIGNAL PLAN SCALE: 1"=20'

|                   |      |
|-------------------|------|
| SURVEY PLOTTED BY | DATE |
| DRAWN BY          |      |
| TRACED BY         |      |
| CHECKED BY        |      |
| NOTED BY          |      |
| NO.               |      |

LAST SAVE: 04/15/04 @ 09:00:27 BY: J.E. PIOT 05-10-20  
Z:\ACAD\PROJECTS\21143\Kanani\21143.dwg  
Z:\ACAD\PROJECTS\21143\Kanani\21143.dwg



THIS WORK WAS PREPARED BY ME  
OR UNDER MY SUPERVISION.  
*Steven M. Sakai*

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

PIILANI HWY/KANANI RD.  
TRAFFIC SIGNAL PLAN  
TRAFFIC OPERATIONAL IMPROVEMENTS  
AT VARIOUS LOCATIONS  
PIILANI HIGHWAY  
AT KANANI ROAD

Scale: AS NOTED  
SHEET No. E-3 OF 12 SHEETS

Date: MAY 2004