

| TRAFFIC SIGN SUMMARY |                                                                                            |                    |          |                         |           |
|----------------------|--------------------------------------------------------------------------------------------|--------------------|----------|-------------------------|-----------|
| SIGN NO.             | MESSAGE                                                                                    | QUANTITY           |          |                         |           |
|                      |                                                                                            | 10 SQ. FT. OR LESS |          | GREATER THAN 10 SQ. FT. |           |
|                      |                                                                                            | W/POST             | W/O POST | W/POSTS                 | W/O POSTS |
| RI-1                 | STOP                                                                                       | 9                  |          |                         |           |
| R2-1(35)             | SPEED LIMIT 35                                                                             | 6                  |          |                         |           |
| R2-4a(45/35)         | SPEED LIMIT 45/35                                                                          | 1                  |          |                         |           |
| R2-5b(35)            | REDUCED SPEED 35                                                                           | 1                  |          |                         |           |
| R4-1                 | DO NOT PASS                                                                                | 3                  |          |                         |           |
| R4-2                 | PASS WITH CARE                                                                             | 6                  |          |                         |           |
| RI5-1                | UNLAWFUL TO LITTER \$500 FINE                                                              | 1                  |          |                         |           |
| RI6-1d               | BUCKLE UP ITS THE LAW                                                                      | 1                  |          |                         |           |
| W2-2                 |           | 4                  |          |                         |           |
| W2-2                 |           | 4                  |          |                         |           |
| W11A-2               |  PED XING | 4                  | 4        |                         |           |
| W11-2                |           | 4                  |          |                         |           |
| W14-2                |           | 1                  |          |                         |           |
|                      | DRY AREA PREVENT FIRE                                                                      | 2                  |          |                         |           |
|                      |                                                                                            |                    |          |                         |           |
| TOTAL                |                                                                                            | 47                 | 4        |                         |           |

| MILEPOST MARKER ASSEMBLY |                           |          |        |  |
|--------------------------|---------------------------|----------|--------|--|
| LOCATION                 | SIGN NO. AND MESSAGE      | QUANTITY |        |  |
|                          |                           | W/O POST | W/POST |  |
| # Sta. 105+50± Rt.       | D10-1 MILE 2<br>D10-7 450 | 1        | 1      |  |
| # Sta. 157+80± Rt.       | D10-1 MILE 3<br>D10-7 450 | 1        | 1      |  |
| # Sta. 211+40± Rt.       | D10-1 MILE 4<br>D10-7 450 | 1        | 1      |  |
| # Sta. 244+00± Rt.       | D10-1 MILE 5<br>D10-7 450 | 1        | 1      |  |
| # Sta. 317+00± Rt.       | D10-1 MILE 6<br>D10-7 450 | 1        | 1      |  |
| # Sta. 317+00± Rt.       | D10-1 MILE 7<br>D10-7 450 | 1        | 1      |  |
| TOTAL                    |                           | 6        | 6      |  |

| CENTERLINE & REFERENCE SURVEY MONUMENT SUMMARY |                 |          |
|------------------------------------------------|-----------------|----------|
| LOCATION                                       | O/S             | QUANTITY |
| Sta. 97+86.57                                  | Baseline (P.C.) | 1        |
| Sta. 108+27.40                                 | Baseline (P.T.) | 1        |
| Sta. 109+79.89                                 | Baseline (P.C.) | 1        |
| Sta. 122+40.35                                 | Baseline (P.T.) | 1        |
| Sta. 156+53.80                                 | Baseline (P.C.) | 1        |
| Sta. 168+06.16                                 | Baseline (P.T.) | 1        |
| Sta. 216+27.76                                 | Baseline (P.C.) | 1        |
| Sta. 232+11.09                                 | Baseline (P.T.) | 1        |
| Sta. 235+52.28                                 | Baseline (P.C.) | 1        |
| Sta. 247+11.35                                 | Baseline (P.T.) | 1        |
| Sta. 251+03.83                                 | Baseline (P.C.) | 1        |
| Sta. 268+55.84                                 | Baseline (P.T.) | 1        |
| Sta. 269+44.47                                 | Baseline (P.C.) | 1        |
| Sta. 286+54.40                                 | Baseline (P.T.) | 1        |
| Sta. 297+33.66                                 | Baseline (P.C.) | 1        |
| Sta. 308+52.83                                 | Baseline (P.T.) | 1        |
| Sta. 310+46.82                                 | Baseline (P.C.) | 1        |
| Sta. 323+75.62                                 | Baseline (P.T.) | 1        |
| Sta. 344+81.39                                 | Baseline (P.C.) | 1        |
| Sta. 364+08.06                                 | Baseline (P.T.) | 1        |
| TOTAL                                          |                 | 20       |

| PAVEMENT MARKING SUMMARY                                                                                                                                                  |                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| DESCRIPTION                                                                                                                                                               | QUANTITY                                 |
| PAVEMENT MARKERS                                                                                                                                                          |                                          |
| TYPE C _____                                                                                                                                                              | 1,450 EA.                                |
| TYPE D _____                                                                                                                                                              | 750 EA.                                  |
| TYPE H _____                                                                                                                                                              | 75 EA.                                   |
| TYPE J _____                                                                                                                                                              | 2,750 EA.                                |
| TAPE - TYPE I OR THERMOPLASTIC EXTRUSION<br>4-INCH PAVEMENT STRIPE (YELLOW) _____                                                                                         | 2,500 L.F.                               |
| TAPE - TYPE II OR THERMOPLASTIC EXTRUSION<br>4-INCH PAVEMENT STRIPE (WHITE) _____<br>8-INCH PAVEMENT STRIPE (WHITE) _____<br>DOUBLE 4-INCH PAVEMENT STRIPE (YELLOW) _____ | 38,400 L.F.<br>18,000 L.F.<br>1,225 L.F. |
| TAPE - TYPE III OR THERMOPLASTIC EXTRUSION<br>12-INCH PAVEMENT STRIPE (WHITE) _____                                                                                       | 100 L.F.                                 |

| REFLECTOR MARKER SUMMARY |               |       |           |
|--------------------------|---------------|-------|-----------|
| TYPE                     | QUANTITY      |       |           |
|                          | W/ STEEL POST |       | W/O POST* |
|                          | YELLOW        | WHITE |           |
| RM-3                     | 30            |       |           |
| RM-4                     | 28            |       |           |
| OM II                    |               |       | 200       |

\* Contractor shall install object markers on all trees and utility poles that are within the State Highway right-of-way.

|               |            |
|---------------|------------|
| ORIGINAL PLAN | DATE       |
| DESIGNED BY   | April 1995 |
| CHECKED BY    |            |
| NOTED BY      |            |
| QUANTITIES BY |            |
| 3/26/95/ldp   |            |



| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | STP-0450(6)        | 1995        | 38        | 39           |

| CONSTRUCTION SIGN SUMMARY |                             |                         |         |          |
|---------------------------|-----------------------------|-------------------------|---------|----------|
| SIGN NO.                  | LOCATION                    | MESSAGE                 | W/POSTS | W/O POST |
| CW20-1d                   | Sta. 90+00 Rt. Kam. V Hwy.  | ROAD CONSTRUCTION AHEAD | 1       |          |
| CG20-2                    | Sta. 90+00 Lt. Kam. V Hwy.  | END CONSTRUCTION        | 1       |          |
| CW20-1d                   | Sta. 382+00 Lt. Kam. V Hwy. | ROAD CONSTRUCTION AHEAD | 1       |          |
| CG20-2                    | Sta. 382+00 Rt. Kam. V Hwy. | END CONSTRUCTION        | 1       |          |
|                           |                             |                         |         |          |
| TOTAL                     |                             |                         | 4       |          |

| RECONSTRUCTION OF WEAKENED AREAS |        |              |             |                    |                  |            |
|----------------------------------|--------|--------------|-------------|--------------------|------------------|------------|
| STATION TO STATION (APPROX.)     | OFFSET | LENGTH (FT.) | WIDTH (FT.) | THICKNESS (INCHES) | EXCAVATION (CY.) | ACB (TONS) |
| KAMEHAMEHA V HIGHWAY             |        |              |             |                    |                  |            |
| 11+50 - 113+00                   | Rt.    | 150          | 8           | 7                  | 26               | 53         |
| 312+00 - 314+00                  | Lt.    | 200          | 11          | 7                  | 48               | 98         |
|                                  |        |              |             |                    |                  |            |
| TOTAL                            |        |              |             |                    | 74               | 151        |
| SAY                              |        |              |             |                    | 80               | 160        |

| ROUTE MARKER SUMMARY |                                                                                |                 |          |                 |          |  |
|----------------------|--------------------------------------------------------------------------------|-----------------|----------|-----------------|----------|--|
| SIGN ASSEMBLY        | SIGN NO. AND MESSAGE                                                           | TYPE A ASSEMBLY |          | TYPE B ASSEMBLY |          |  |
|                      |                                                                                | W/POST          | W/O POST | W/POST          | W/O POST |  |
| SRM-1                | <div><div>EAST</div><div>450</div><div>↑</div></div> M3-2<br>M1-6(450)<br>M6-3 | 2               |          |                 |          |  |
| SRM-2                | <div><div>WEST</div><div>450</div><div>↑</div></div> M3-4<br>M1-6(450)<br>M6-3 | 2               |          |                 |          |  |
| TOTAL                |                                                                                | 4               |          |                 |          |  |

|                   |             |
|-------------------|-------------|
| SURVEY PLOTTED BY | DATE        |
| DRAWN BY          | April, 1995 |
| DESIGNED BY       |             |
| QUANTITIES BY     |             |
| CHECKED BY        |             |
| ORIGINAL PLAN     |             |
| NOTED BY          |             |
| NOTED DATE        |             |
| NOTED BY          |             |
| NOTED DATE        |             |

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

MISCELLANEOUS SUMMARIES

KAMEHAMEHA V HIGHWAY RESURFACING

Kamiloloa Bridge to Kapuokoolau

Federal-Aid Project No. STP-0450(6)

Date: April, 1995

SHEET No. 2 OF 2 SHEETS