

| FED. ROAD DIST. NO. | STATE | PROJ. NO.   | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | HWY-H-06-24 | 1994        | 5         | 7            |

| ROUTE NO. | SITE NO. | STATION  |          | MILE POST |       | MAKAI | MAUKA | PAY ITEM:<br>GUARDRAIL<br>(L.F.) * | OFFSET<br>TO E.P.<br>(L.F.) | GUARDRAIL<br>POST<br>LENGTH (L.F.) | REPLACEMENT<br>GUARDRAIL<br>END TREATMENTS |              |       |                     | BRIDGE<br>NAME | EXISTING GUARDRAIL<br>(TO BE REMOVED) |      |      |      |      | REFLECTORS AND<br>OBJECT MARKERS |                          |                                |                                  |                          | SHOULDER<br>RECONSTR.<br>(S.T.) |     | REMARKS                 |                     |   |
|-----------|----------|----------|----------|-----------|-------|-------|-------|------------------------------------|-----------------------------|------------------------------------|--------------------------------------------|--------------|-------|---------------------|----------------|---------------------------------------|------|------|------|------|----------------------------------|--------------------------|--------------------------------|----------------------------------|--------------------------|---------------------------------|-----|-------------------------|---------------------|---|
|           |          | FROM     | TO       | FROM      | TO    |       |       |                                    |                             |                                    | LEAD                                       | RADIUS (FT.) | TRAIL | RADIUS (FT.)        |                | RAIL                                  |      | POST |      |      | RM-2<br>W/ STEEL<br>POST         | RM-3<br>W/ STEEL<br>POST | RM-3<br>(B/DIR) W/<br>STL POST | RM-3/2<br>(B/DIR) W/<br>STL POST | RM-4<br>W/ STEEL<br>POST |                                 |     |                         |                     |   |
|           |          |          |          |           |       |       |       |                                    |                             |                                    |                                            |              |       |                     |                | W.R.                                  | M.R. | W.P. | C.P. | M.P. |                                  |                          |                                |                                  |                          |                                 |     |                         |                     |   |
| 190B      | 1        | 388 + 86 | 398 + 61 | 28.58     | 28.76 | o     |       | 950                                | 5                           | 8                                  | G                                          | 15           | BCT   |                     |                |                                       |      | 34   |      | 8    | 1                                |                          | 1                              |                                  |                          | 815                             |     |                         |                     |   |
|           | 2        | 376 + 46 | 385 + 96 | 28.77     | 28.96 | o     |       | 925                                |                             |                                    | BCT                                        |              |       | F                   |                |                                       |      | 25   |      | 8    | 1                                |                          |                                |                                  |                          | 790                             |     |                         |                     |   |
|           | 3        | 366 + 09 | 370 + 34 | 29.11     | 29.19 | o     |       | 400                                |                             |                                    | C                                          |              |       | BCT                 |                |                                       |      | 8    |      | 3    |                                  |                          | 1                              |                                  |                          | 355                             |     |                         |                     |   |
|           | 4        | 360 + 10 | 363 + 35 | 29.23     | 29.29 | o     |       | 275                                |                             |                                    | BCT                                        |              |       | BCT                 |                |                                       |      | 5    |      | 2    | 1                                |                          | 1                              |                                  |                          | 270                             |     |                         |                     |   |
|           | 5        | 269 + 20 | 275 + 45 | 30.81     | 30.93 | o     |       | 625                                |                             |                                    | G                                          | 15'          |       | F                   |                |                                       |      | 15   |      | 5    | 1                                |                          |                                |                                  |                          | 520                             |     |                         |                     |   |
|           | 6        | 239 + 20 | 244 + 70 | 31.46     | 31.56 | o     |       | 525                                |                             |                                    | BCT                                        |              |       | G                   | 15             |                                       |      | 9    |      | 4    | 1                                |                          | 2                              |                                  |                          | 460                             |     |                         |                     |   |
|           | 7        | 101 + 55 | 104 + 55 | 34.13     | 34.19 | o     |       | 300                                | 5                           | 8                                  | C                                          |              |       | F                   |                |                                       |      | 6    |      | 2    |                                  |                          |                                |                                  |                          | 270                             |     |                         |                     |   |
|           | 8        | 92 + 35  | 93 + 60  | 34.34     | 34.37 |       | o     | 125                                | 5                           | 8                                  | G                                          | 15           |       | F                   | 10             |                                       |      |      | 8    |      | 1                                | 1                        |                                |                                  |                          |                                 | 110 |                         |                     |   |
|           | 9        | 90 + 90  | 92 + 15  | 34.37     | 34.39 |       | o     | 125                                |                             |                                    | G                                          | 15'          |       | G                   | 15             |                                       |      |      | 6    |      |                                  | 1                        |                                |                                  | 1                        |                                 | 110 |                         |                     |   |
|           | 10       | 87 + 79  | 93 + 54  | 34.34     | 34.45 | o     |       | 575                                |                             |                                    | G                                          | 15           |       | G                   | 15             |                                       |      |      | 21   |      | 5                                | 1                        |                                | 1                                |                          |                                 | 480 |                         |                     |   |
|           | 11       | 83 + 75  | 87 + 25  | 34.46     | 34.53 | o     |       | 350                                |                             |                                    | G                                          | 15           |       | G                   | 15             |                                       |      |      | 12   |      | 3                                | 1                        |                                | 1                                |                          |                                 | 290 |                         |                     |   |
|           | 12       | 56 + 60  | 62 + 85  | 34.92     | 35.03 | o     |       | 600                                |                             |                                    | G                                          |              |       | BCT                 |                |                                       |      | 24   |      | 5    | 1                                |                          | 1                              |                                  |                          | 520                             |     |                         |                     |   |
|           | 13       | 56 + 27  | 60 + 52  | 34.97     | 35.04 |       | o     | 425                                |                             |                                    | C                                          |              |       | G                   | 15             |                                       |      |      | 12   |      | 3                                |                          |                                | 1                                |                          |                                 | 350 |                         |                     |   |
|           | 14       | 41 + 03  | 47 + 78  | 35.20     | 35.33 | o     |       | 675                                | 5                           | 8                                  | C                                          |              |       | G                   | -              |                                       |      |      | 17   |      | 6                                |                          |                                | 1                                |                          |                                 | 560 |                         |                     |   |
| 250A      | 15       | 447 + 50 | 449 + 00 | 8.76      | 8.79  |       | o     | 125                                | 6                           | 6                                  | BCT                                        |              |       | G                   | 15             |                                       |      | 54   |      | 9    | 1                                |                          | 1                              |                                  | 1                        |                                 |     |                         |                     |   |
|           | 16       | 448 + 00 | 454 + 25 | 8.66      | 8.78  | o     |       | 587.5                              | 6                           |                                    | BRIDGE                                     |              |       | F                   |                | KILOHANA                              |      | 560  | 84   | 5    | 6                                |                          |                                |                                  |                          | 560                             |     |                         |                     |   |
|           | 17       | 446 + 90 | 447 + 40 | 8.78      | 8.79  | o     |       | 125                                | 7                           |                                    | C                                          |              |       | BRIDGE              |                | KILOHANA                              | 27   |      | 4    |      |                                  |                          |                                |                                  |                          |                                 |     | TYPE I CONN. (MODIFIED) |                     |   |
|           | 18       | 450 + 10 | 453 + 10 | 8.68      | 8.74  |       | o     | 275                                | 6                           |                                    | BCT                                        |              |       | G                   | 15             |                                       |      | 180  | 28   |      | 2                                | 1                        |                                | 1                                |                          | 560                             |     |                         |                     |   |
|           | 19       | 9 + 30   | 9 + 80   | 19.75     | 19.76 |       | o     | 50                                 | 6                           |                                    | BCT                                        |              |       | G                   | 20             |                                       | 8    |      | 2    |      |                                  | 1                        |                                | 1                                |                          |                                 |     |                         |                     |   |
|           | 20       | 0 + 20   | 0 + 55   | 19.92     | 19.94 |       | o     | 75                                 | 5                           | 6                                  | BCT                                        |              |       | F                   |                |                                       | 8    |      | 2    |      |                                  | 1                        |                                | 1                                |                          |                                 |     |                         |                     |   |
| 19H       | 21       | 28 + 80  | 29 + 55  | 23.04     | 23.05 | o     |       | 25                                 | -                           | 6                                  | C                                          |              |       | BRIDGE              |                | KAPEHU                                |      | 52   |      |      | 8                                |                          | 3                              |                                  |                          | 1 (R)                           |     |                         | TYPE I BRIDGE CONN. |   |
|           | 22       | 26 + 80  | 27 + 55  | 23.06     | 23.07 | o     |       | 25                                 | -                           |                                    | BRIDGE                                     |              |       | F                   |                | KAPEHU                                | 20   |      | 3    |      |                                  | 3                        |                                |                                  | 1 (L)                    |                                 |     | "                       | "                   | " |
|           | 23       | 28 + 80  | 29 + 55  | 23.04     | 23.05 |       | o     | 25                                 | -                           |                                    | BRIDGE                                     |              |       | F                   |                | KAPEHU                                |      | 25   |      | 5    |                                  | 3                        |                                |                                  | 1 (R)                    |                                 |     | "                       | "                   | " |
|           | 24       | 26 + 80  | 27 + 55  | 23.06     | 23.07 |       | o     | 25                                 | -                           | 6                                  | C                                          |              |       | BRIDGE              |                | KAPEHU                                |      | 52   |      | 7    |                                  |                          | 3                              |                                  |                          | 1 (L)                           |     |                         | "                   | " |
| 19F       | 25       | 407 + 65 | 410 + 65 | 51.92     | 51.98 | o     |       | 250                                | 7                           | 8                                  | BCT                                        |              |       | BCT                 |                |                                       |      | 225  | 19   |      | 2                                | 1                        |                                | 1                                |                          | 190                             |     |                         |                     |   |
|           | 26       | 420 + 15 | 423 + 90 | 51.68     | 51.75 | o     |       | 375                                |                             |                                    | C                                          |              |       | F                   |                |                                       |      | 300  | 25   |      | 4                                |                          |                                |                                  |                          | 290                             |     |                         |                     |   |
|           | 27       | 420 + 00 | 423 + 75 | 51.68     | 51.75 |       | o     | 375                                |                             |                                    | C                                          |              |       | G                   | 15             |                                       |      | 228  | 19   |      | 3                                |                          |                                | 1                                |                          | 290                             |     |                         |                     |   |
|           | 28       | 426 + 80 | 434 + 05 | 51.48     | 51.62 | o     |       | 700                                |                             |                                    | BCT                                        |              |       | F                   |                |                                       |      | 475  | 39   |      | 6                                |                          |                                | 1                                |                          | 550                             |     |                         |                     |   |
|           | 29       | 449 + 80 | 455 + 55 | 51.07     | 51.18 | o     |       | 575                                |                             |                                    | C                                          |              |       | G                   | 15             |                                       |      | 350  | 29   |      | 5                                |                          |                                |                                  |                          | 450                             |     |                         |                     |   |
|           | 30       | 450 + 20 | 454 + 45 | 51.09     | 51.17 |       | o     | 425                                |                             |                                    | G                                          | 15           |       | F                   |                |                                       |      | 29   | 3    |      | 4                                |                          |                                |                                  |                          | 330                             |     |                         |                     |   |
|           | 31       | 467 + 50 | 471 + 75 | 50.76     | 50.84 |       | o     | 425                                |                             |                                    | C                                          |              |       | G                   | -              |                                       |      | 328  | 27   |      | 4                                |                          |                                |                                  |                          | 330                             |     |                         |                     |   |
|           | 32       | 473 + 30 | 479 + 80 | 50.61     | 50.73 | o     |       | 650                                |                             |                                    | C                                          |              |       | G                   | 15             |                                       |      | 52   | 5    |      | 6                                |                          |                                | 1                                |                          | 500                             |     |                         |                     |   |
|           | 33       | 479 + 10 | 480 + 85 | 50.59     | 50.62 |       | o     | 175                                | 7                           | 8                                  | C                                          |              |       | F                   |                |                                       |      | 51   | 5    |      | 2                                |                          |                                |                                  |                          | 140                             |     |                         |                     |   |
|           | TOTALS   |          |          |           |       |       |       |                                    | 12,162.5                    |                                    |                                            | 14 BCT,      | 6     | TYPE I BRIDGE CONN. |                |                                       |      |      |      |      | 100                              | 27                       |                                | 19                               | 4                        | 10,090.0                        |     |                         |                     |   |

LEGEND

- W.R. - Wooden guardrail  
M.R. - Metal guardrail  
W.P. - Wooden post  
C.P. - Concrete post  
M.P. - Metal post

\* Note: Guardrail length shown does not include 25' BCT Pay Item length.

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
  
GUARDRAIL & REFLECTOR  
MARKER SCHEDULE  
  
GUARDRAIL AND SHOULDER IMPROVEMENTS  
AT VARIOUS LOCATIONS ON HAWAII  
PROJECT NO. HWY-H-06-24  
  
Date: May 1994  
  
SHEET No. 1 OF 1 SHEETS

DATE

DESIGNED BY

TRACED BY

QUANTITIES BY

CHECKED BY

ORIGINAL PLAN

NOTE BOOK

No.