

|                        |       |                       |                |              |                 |
|------------------------|-------|-----------------------|----------------|--------------|-----------------|
| FED. ROAD<br>DIST. NO. | STATE | FED. AID<br>PROJ. NO. | FISCAL<br>YEAR | SHEET<br>NO. | TOTAL<br>SHEETS |
| HAWAII                 | HAW.  | STP-019-2(37)         | 1995           | 25           | 36              |

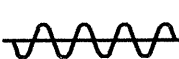
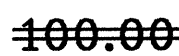
GUARDRAIL SCHEDULE

| FROM                                   | TO                                     | LEFT | RIGHT | LENGTH<br>OF NEW<br>GR. (FT.) | GUARDRAIL END TREATMENT |        |                     |        | BRIDGE<br>NAME | GUARDRAILS<br>TO BE<br>REMOVED | REMARKS                              |
|----------------------------------------|----------------------------------------|------|-------|-------------------------------|-------------------------|--------|---------------------|--------|----------------|--------------------------------|--------------------------------------|
|                                        |                                        |      |       |                               | LEADING                 | RADIUS | TRAILING            | RADIUS |                |                                |                                      |
| 207+37                                 | 208+62                                 |      | ●     | 50 <del>75.0</del>            | C                       | —      | BRIDGE              | —      | KEALAKAHA      | 25.0                           | TYPE II Bridge Connection (50' G.R.) |
| 207+62                                 | 208+62                                 | ●    |       | 37.5 <del>50.0</del>          | BRIDGE                  | —      | F                   | —      | KEALAKAHA      | 0.0                            | TYPE II Bridge Connection (50' G.R.) |
| 213+48                                 | 214+35.5                               |      | ●     | 25 <del>37.5</del>            | BRIDGE                  | —      | SRT <del>F</del>    | —      | KEALAKAHA      | 0.0                            | TYPE II Bridge Connection (50' G.R.) |
| 213+48                                 | 215+23                                 | ●    |       | 125.0                         | C                       | —      | BRIDGE              | —      | KEALAKAHA      | 0.0                            | TYPE II Bridge Connection (50' G.R.) |
| <del>224+00</del><br><del>223+65</del> | <del>226+62</del><br><del>225+40</del> |      | ●     | 275 <del>175.0</del>          | C                       | —      | G <del>F</del>      | —      | —              | 25.5                           | Replace/Modify existing guardrail    |
| 224+81                                 | 227+56                                 | ●    |       | 275.0                         | —                       | —      | G+                  | 25'    | —              | 250.0                          | Replace/Modify existing guardrail    |
| 227+56                                 | 236+43.5                               | ●    |       | —                             | —                       | —      | —                   | —      | —              | 0.0                            | Reset guardrail - 887.5 L.F.         |
| 236+43.5                               | 239+93.5                               | ●    |       | 362.5                         | G+                      | 25'    | —                   | —      | —              | 0.0                            | Replace/Modify existing guardrail    |
| 240+07                                 | 244+19.5                               | ●    |       | 375 <del>400.0</del>          | SRT <del>MELT</del>     | —      | G+                  | 25'    | —              | 0.0                            | New Installation w/SRT-350           |
| 250+37                                 | 250+74.5                               | ●    |       | 50 <del>12.5</del>            | —                       | —      | SRT <del>MELT</del> | —      | —              | 50 <del>12.5</del>             | Install <del>MELT</del> SRT-350      |
| 250+58                                 | 251+70.5                               |      | ●     | 112.5                         | C                       | —      | F                   | —      | —              | 62.5                           | Replace/Modify existing guardrail    |
| 251+62                                 | 252+12                                 | ●    |       | 12.5 <del>50.0</del>          | C                       | —      | —                   | —      | —              | 0 <del>12.5</del>              | Install Type C end treatment         |
| 277+41.5                               | 279+79                                 |      | ●     | 62.5 <del>237.5</del>         | C                       | —      | F                   | —      | —              | Reset 175.0                    | Replace/Modify existing guardrail    |
| 7+61                                   | 9+23.5                                 |      | ●     | 137.5                         | SRT <del>MELT</del>     | —      | F                   | —      | —              | 50.0                           | Replace/Modify existing guardrail    |
| 11+67.5                                | 11+92.5                                |      | ●     | 25.0                          | C                       | —      | —                   | —      | —              | 12.5                           | Install Type C end treatment         |
| 13+17.5                                | 13+92.5                                |      | ●     | 75.0                          | —                       | —      | F                   | —      | —              | 12.5                           | Install Type F end treatment         |
|                                        |                                        |      |       |                               |                         |        |                     |        |                |                                |                                      |
| 18+57.5                                | 19+70                                  |      | ●     | 37.5                          | SRT <del>MELT</del>     | —      | BRIDGE              | —      | KAALAU         | 87.5                           | TYPE I Bridge Connection (50' G.R.)  |
| 18+39.5                                | 19+27                                  | ●    |       | 12.5                          | BRIDGE                  | —      | SRT <del>MELT</del> | —      | KAALAU         | 50.0                           | TYPE I Bridge Connection             |
| 22+93                                  | 23+68                                  | ●    |       | 25.0                          | C                       | —      | BRIDGE              | —      | KAALAU         | 62.5                           | TYPE I Bridge Connection             |
| 23+20                                  | 23+70                                  |      | ●     | —                             | BRIDGE                  | —      | F                   | —      | KAALAU         | 0.0                            | TYPE I Bridge Connection             |
|                                        |                                        |      |       |                               |                         |        |                     |        |                |                                |                                      |
| 38+99                                  | 39+36.5                                |      | ●     | 12.5                          | SRT <del>MELT</del>     | —      | —                   | —      | —              | 12.5                           | Install <del>MELT</del> SRT-350      |
| 39+63.5                                | 39+88.5                                | ●    |       | 37.5                          | —                       | —      | G+                  | 25'    | —              | 12.5                           | Install Type G+ end treatment        |
| 39+98.5                                | 40+23.5                                |      | ●     | —                             | —                       | —      | SRT <del>MELT</del> | —      | —              | 12.5                           | Install <del>MELT</del> SRT-350      |
| 117+76.5                               | 122+44                                 |      | ●     | 412.5                         | G <del>C</del>          | —      | SRT <del>MELT</del> | —      | —              | 450.0                          | Replace/Modify existing guardrail    |
| 118+05                                 | 118+42.5                               | ●    |       | 37.5                          | —                       | —      | G                   | —      | —              | 37.5                           | * Install G end treatment w/rubrail  |
| 118+42.5                               | 122+92.5                               | ●    |       | 450                           | —                       | —      | G                   | —      | —              | 450                            | Replace/Modify existing guardrail    |
| 122+92.5                               | 123+80                                 | ●    |       | 37.5                          | G                       | —      | —                   | —      | —              | 37.5                           | * Install G end treatment w/rubrail  |
| 140+28.5                               | 140+53.5                               | ●    |       | 25.0                          | —                       | —      | F                   | —      | —              | 12.5                           | Install Type F end treatment         |
|                                        | TOTALS                                 |      |       | 3,237.5                       |                         |        |                     |        |                | 2,037.5                        |                                      |

NOTES :

- All guardrail posts shall be 6 foot lengths unless otherwise directed by the Engineer.
- All lengths in feet, unless otherwise specified.
- The Engineers shall modify guardrail design to fit the existing field conditions.
- Actual guardrail locations and radii shall be verified in the field by the Contractor and approved by the Engineer prior to the ordering of materials. Curved guardrail sections shall be ordered in a timely manner to allow project completion within the contract time period .
- G+ = Modified Type G end treatment with radius indicated .
- ~~MELT = Modified Eccentric to Leader Terminal .~~  
SRT-350 + Slotted Rail Terminal
- \* = To be paid for under Item No. 606.3200 - Guardrail, Type 3 - Single with Rubrail on Steel Posts .

LEGEND FOR AS-BUILT POSTINGS

|                                                                                       |                                     |
|---------------------------------------------------------------------------------------|-------------------------------------|
|  | Squiggly line for as-built deletion |
|  | Double line for as-built deletion   |
| Roadway                                                                               | Text for as-built posting           |

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
GUARDRAIL SCHEDULE

HAWAII BELT ROAD RESURFACING  
Kaala Bridge to Kaawali Gulch  
F.A. PROJECT NO. STP-019-2(37)

Scale: None Date: Nov., 1994

SHEET No. 1 OF 1 SHEETS

"AS-BUILT"

|              |                     |         |
|--------------|---------------------|---------|
| dd2.gwen     | SURVEY PLOTTED BY   | DATE    |
| dhbragrs.dgn | DRAWN BY A. Kame    | 10/5/94 |
|              | TRACED BY           |         |
|              | DESIGNED BY S. Olow |         |
|              | CHECKED BY          |         |
|              | NOTED BY            |         |
|              | REVISIONS           |         |