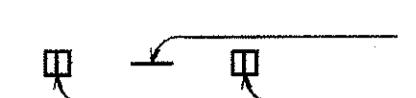
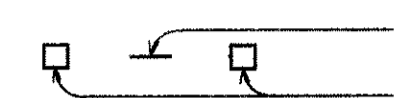





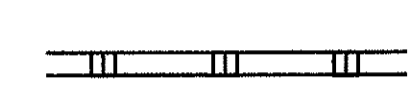

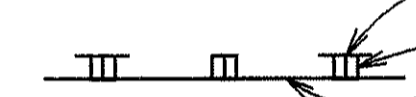










| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII | HAW. | STP-0900(34) | 1997 | 8 | 20 |

LEGEND

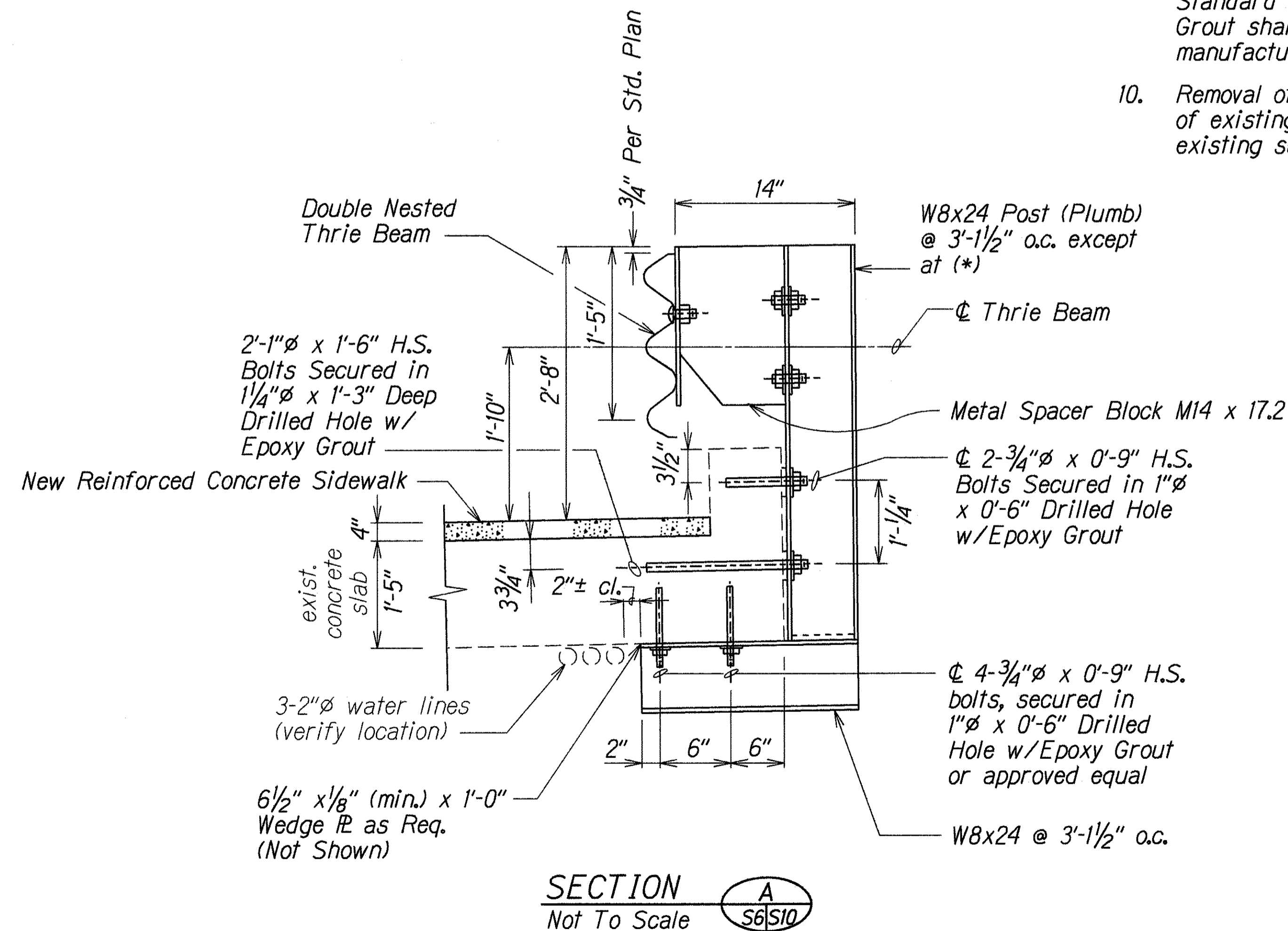
-  4 each Type A Raised Pavement Markers
Type C Raised Pavement Markers @ 40'-0" o.c.
-  4 each Type J Raised Pavement Markers
Type D Raised Pavement Markers @ 40'-0" o.c.
-  8" White Stripe with Type C Raised Pavement Markers @ 20'-0" o.c. (Tape, Type I or Thermoplastic Extrusion)
-  4" Double Solid Yellow with Type D Raised Pavement Markers @ 20'-0" o.c. (Tape, Type I or Thermoplastic Extrusion)
-  4" Double Solid Yellow Stripes with Type H Raised Pavement Markers @ 20'-0" o.c. (Tape, Type II or Thermoplastic Extrusion)
-  4" Yellow Edge Stripe with Type H Raised Pavement Markers @ 40'-0" o.c. (Tape, Type II or Thermoplastic Extrusion)
-  4" Double Solid White Stripes with Type C Raised Pavement Markers @ 20'-0" o.c. (Tape, Type I or Thermoplastic Extrusion)
-  Lane Change Restriction Marking
4 each Type A Raised Pavement Markers
Type C Raised Pavement Markers @ 20'-0" o.c.
4" White Stripe (Tape, Type I or Thermoplastic Extrusion)
-  4" or 8" White Edge Stripe with Type C Raised Pavement Markers @ 40'-0" o.c. (Tape, Type II or Thermoplastic Extrusion)
-  4" White Guide Lines (Tape, Type III or Thermoplastic Extrusion except for bus bays)
-  Transverse Median Marking (Tape, Type II or Thermoplastic Extrusion)
-  Transverse Shoulder Marking (Tape, Type II or Thermoplastic Extrusion)
-  Channelizing Island or Deceleration Lane Gore (Tape, Type II or Thermoplastic Extrusion)
-  Crosswalk and Stop Line. All Stop Lines shall be 10'-0" from Crosswalk unless otherwise noted. The circled number indicates the number of lanes for payment (Tape, Type III or Thermoplastic Extrusion)
-  Pavement Arrow (Tape, Type III or Thermoplastic Extrusion)
-  Pavement Word (Tape, Type III or Thermoplastic Extrusion)
-  4 Each Type J Raised Pavement Markers
Type D Raised Pavement Markers @ 40'-0" o.c.
Type H Raised Pavement Markers (Reflective Surface facing no-passing direction)
4" Single Solid Yellow Stripe (Tape, Type I or Thermoplastic Extrusion)
-  Extension of Edge Line, 4" Wide x 2'-0" Long White Stripe @ 10'-0" o.c. w/Type C Markers @ 40'-0" o.c. (Tape, Type III or Thermoplastic Extrusion)

NOTES

1. Layout of pavement markings and striping shall be done by the Contractor and approved by the Engineer prior to any installation work.
2. Existing pavement markings not incorporated in the final traffic pattern shall be removed as directed by the Engineer. Costs shall be incidental to the various pavement marking items.
3. Raised pavement markers shall not be installed within crosswalks.
4. Final locations of all signs shall be approved by the Engineer prior to any installation work.
5. Existing signs not shown on these plans shall remain as posted unless otherwise directed by the Engineer. Removal and disposal of existing signs and/or posts as designated on these plans shall be incidental to the various signing items.
6. Final locations of all Stop Lines shall be approved by the Engineer prior to installation.
7. All pavement striping shall be as noted on the legend or plans.
8. All preformed pavement marking tapes over existing pavement shall be applied with an approved primer as recommended by the tape manufacturer and as approved by the Engineer. The primer shall be allowed to dry to the tacky stage prior to tape application.

GENERAL NOTES:

1. See Standard Specifications for Road & Bridge Construction, (Hawaii, 1994) & Special Provisions.
2. Large impacting or vibratory type of equipment will not be permitted for drilling.
3. Any damage to the existing structures due to the Contractor's operation shall be repaired at his expense, to the satisfaction of the Engineer.
4. The Contractor shall verify all dimensions in field before commencing with work.
5. Structural Steel - ASTM A-36
6. H.S. Anchor Bolt - ASTM A-193, Class 2, Grade B8 with nuts and washers conforming to ASTM A-194, Grade 8A. Bolt shall be headless and threaded its full length. Bolts, nuts and washers shall be ungalvanized.
7. Thrie Beam - 10 gage or nested 12 gage steel, conforming to the requirements of AASHTO 180.
8. Structural steel shapes shall be hot dipped galvanized after fabrication.
9. Epoxy Grout - High early strength type (1000 psi minimum compressive strength @ 4 hours) conforming to the requirements of Subsection 712.04 (B), Epoxy Grout, of the Standard Specification and approved by the Engineer. Epoxy Grout shall be applied in strict conformance with the manufacturer's recommendation.
10. Removal of existing posts and supports shall include cutting of existing bolts 1" into the surface and patch to match existing surface.



| | | |
|-------------------|-------------|-----------|
| SURVEY PLOTTED BY | DATE | Aug. 1996 |
| DRAWN BY | J. G. G. G. | |
| NOTE BOOK | | |
| DESIGNED BY | C. B. B. B. | |
| QUANTITIES BY | | |
| CHECKED BY | | |

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**PAVEMENT MARKING
LEGEND, DETAILS & NOTES**
KAAHUMANU AVENUE & HANA HIGHWAY
GUARDRAIL & SHOULDER IMPROVEMENTS
Naniloa Drive to Kahului Beach Road &
Kaahumanu Avenue to Dairy Road
Fed. Aid Project No. STP-0900(34)
Date: March, 1996
SHEET No. 1 OF 1 SHEETS