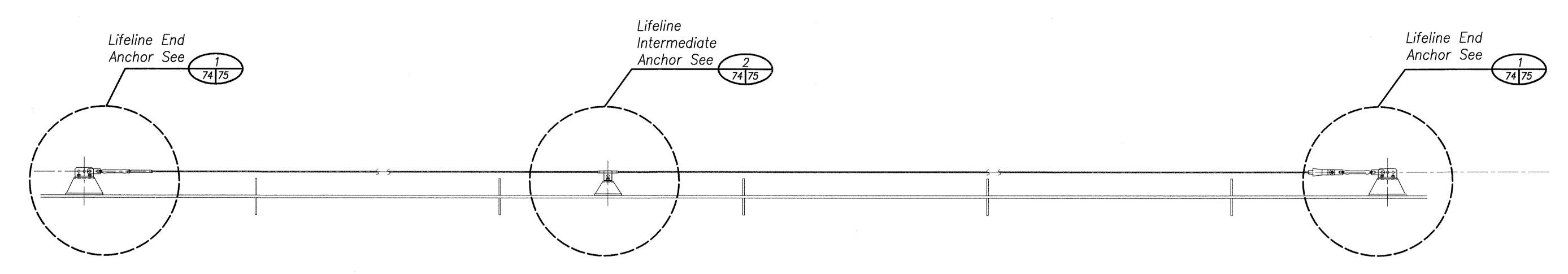


TYPICAL LIFELINE SYSTEM SIDE VIEW



TYPICAL LIFELINE SYSTEM TOP VIEW Scale: 3/4"= 1'-0"

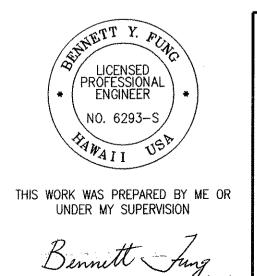
LIFELINE SYSTEM NOTES

- 1. The Lifeline system shall be an engineered fall protection cable system with the following characteristics:
 - a. Lifeline system shall conform to applicable OSHA regulations, and designed for 4 person connected to each system, and 2 person connected to any sub-span.
 - b. Lifeline system shall allow user to traverse the entire system without the need to detach and re—attach at intermediate points.
 - c. System shall be fabricated with 316 stainless steel, 304 stainless steel is allowed for end anchors, 431 stainless steel is allowed for swage body, and have no moving parts.
 - d. Free fall shall not exceed 6 feet.
 - e. Cables shall be 7 strands x 7 wires per strand construction, 316 stainless steel with a minimum diameter of 1/2 inch.
 - f. End reactions shall not exceed 6,750 lbs, intermediate reaction shall not exceed 3,600 lbs.

- g. Manufactured anchor shall be fastened to fabricated brackets with 1/2" diameter, grade 8 stainless steel bolts, 13 threads per inch.
- h. Fabricated brackets shall be hot dipped galvanized, painted, and fastened to steel girders with hot dipped galvanized, A325 slip critical bolts.
- 2. Equipment known to meet requirements: Sayfglida Horizontal Lifeline Systems, manufactured by SALA Engineered Systems, Red Wing, MN 55066.
- 3. Provide Lifelines as shown on plans. Provide the following accessories:
 - 16 Detachable Sleeves (SALA Sayflink Sleeve or equal)

38, 39, 40, 41, 46, 47 74

- 30 feet Retractable Lifeline (Protecta Model AD212AG or equal)
- Cross—arm straps
- 300 pounds Man-Rated 130 feet Self Retracting Lifeline with Retrieval Rescue Winch with stainless steel rope, and connector with matching capacity
 - (SALA Model number 3403603 or equal)
- Rescue Quad Pod as shown on sheet 77
- Rescue-Positioning Device with 30 feet of travel length (SALA RPD or equal).
- 15 Full Body Harnesses with two-legs Shock Absorbing Lanyards.



EXP. DATE OF THE LICENSE

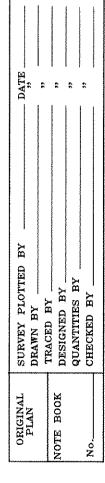
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION

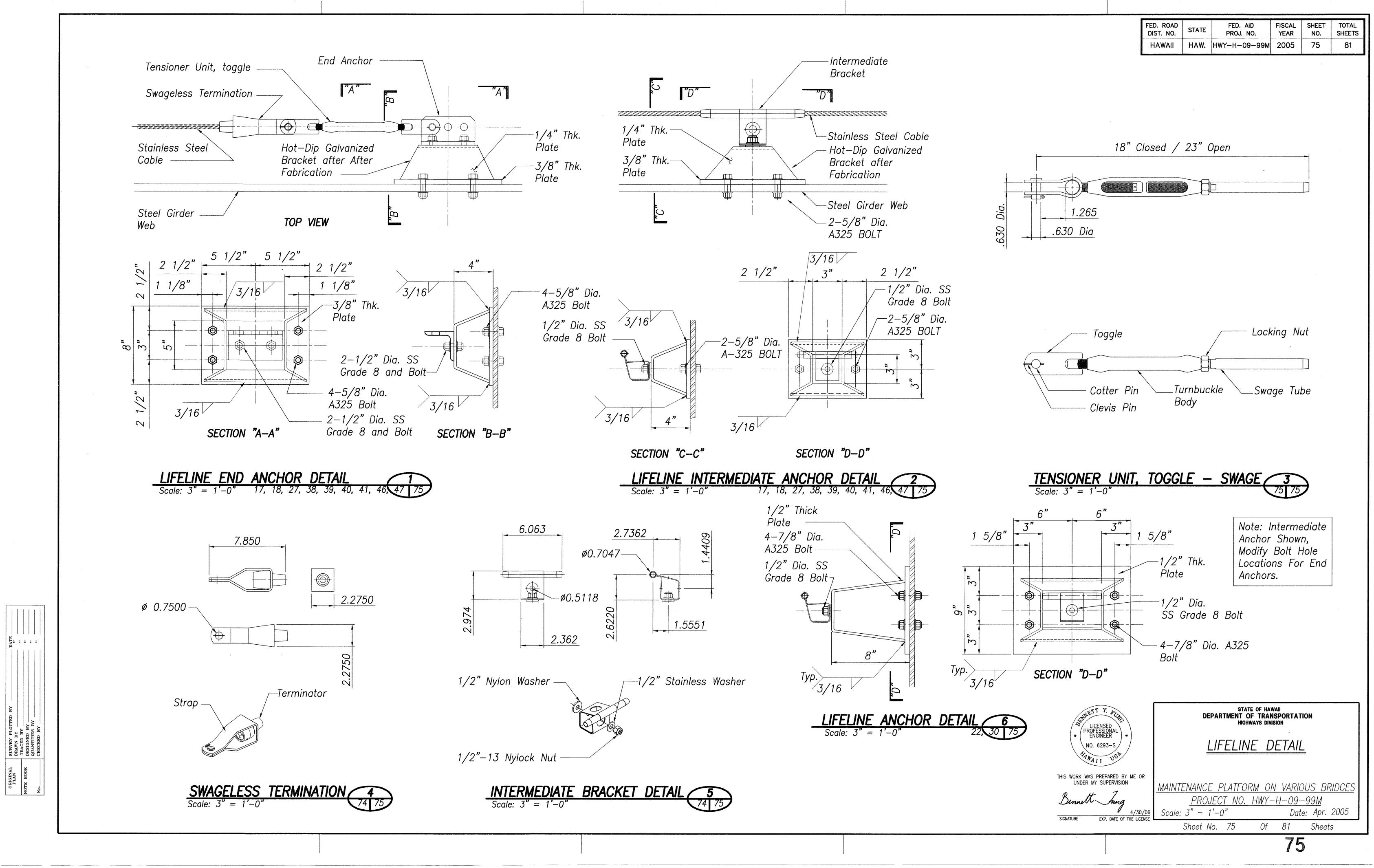
LIFELINE SYSTEM AND NOTES

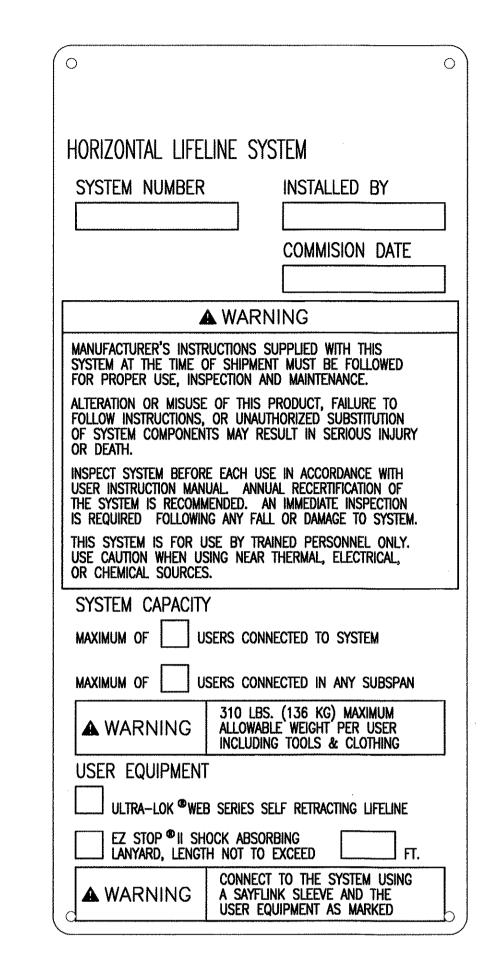
MAINTENANCE PLATFORM ON VARIOUS BRIDGE PROJECT NO. HWY-H-09-99M

Date: Apr. 2005 Scale: 3/4"= 1'-0"

Of 81 Sheet No. 74 Sheets





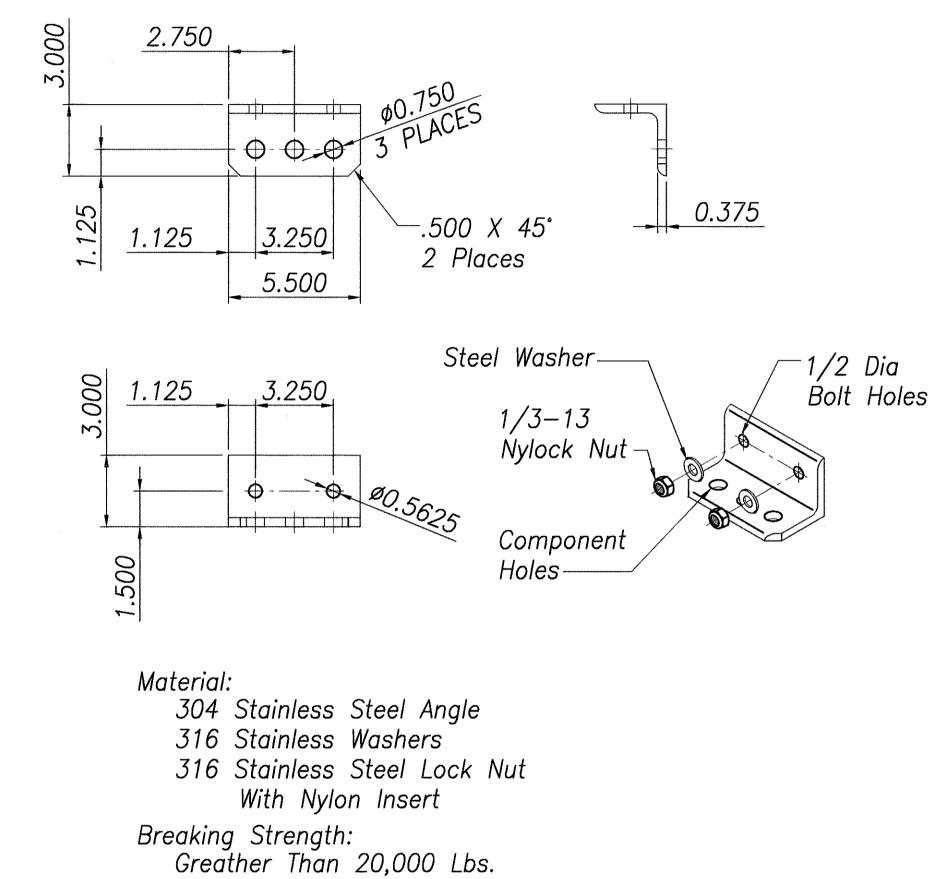


Material: Stainless Steel, Self Adhesive Backing

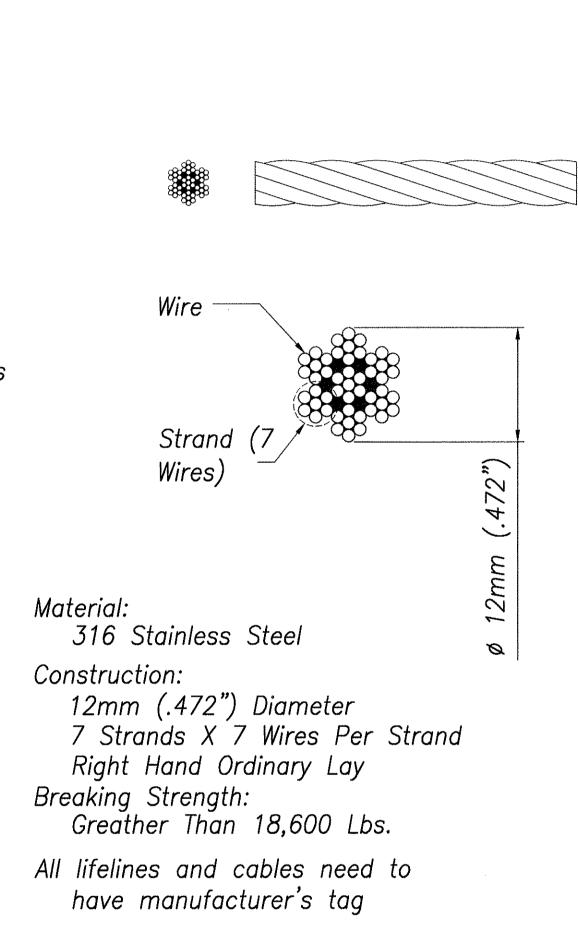
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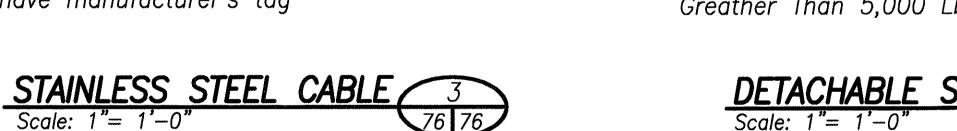
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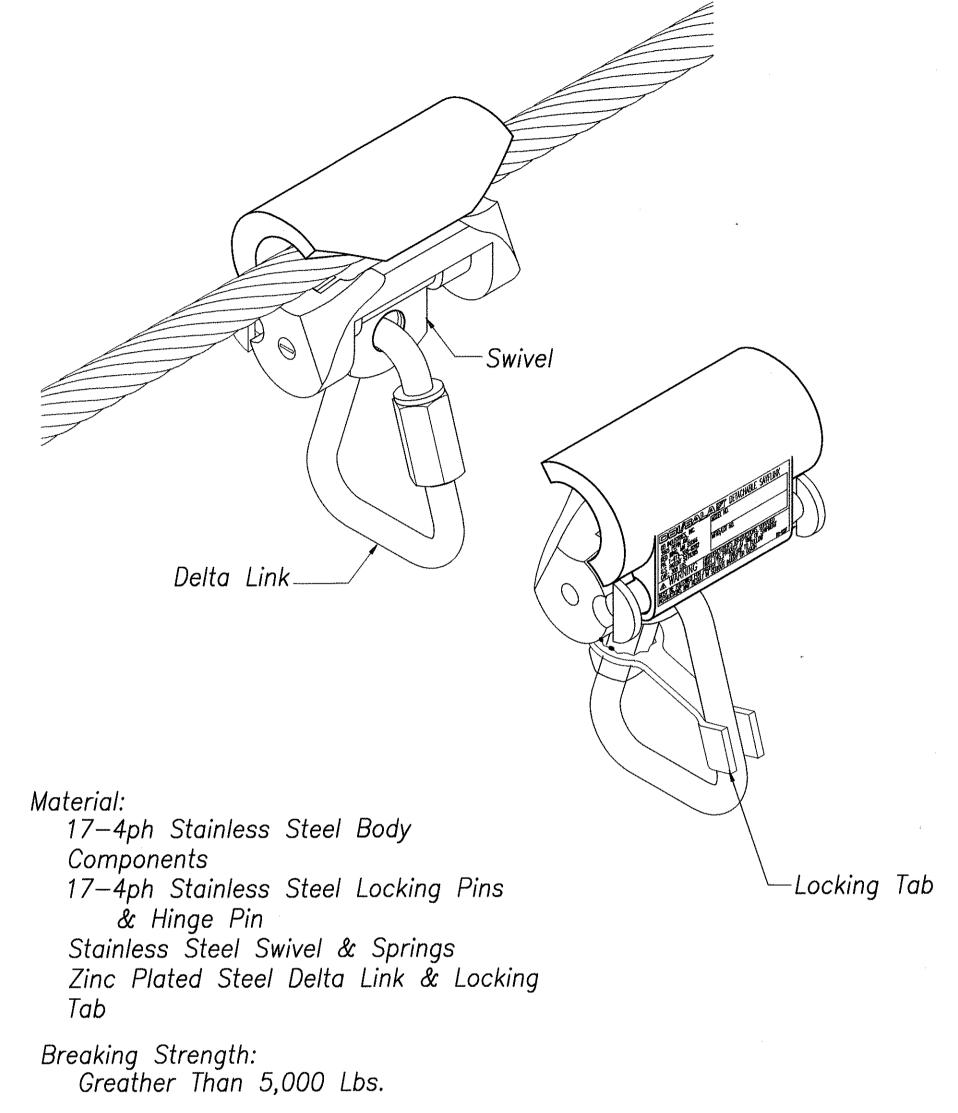




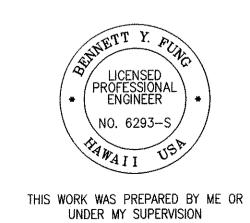












Bennett Jung EXP. DATE OF THE LICENSE

LIFELINE DETAIL MAINTENANCE PLATFORM ON VARIOUS BRIDGES PROJECT NO. HWY-H-09-99M Date: Apr. 2005 Scale: 1"= 1'-0" Sheet No. 76 Of 81 Sheets

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION