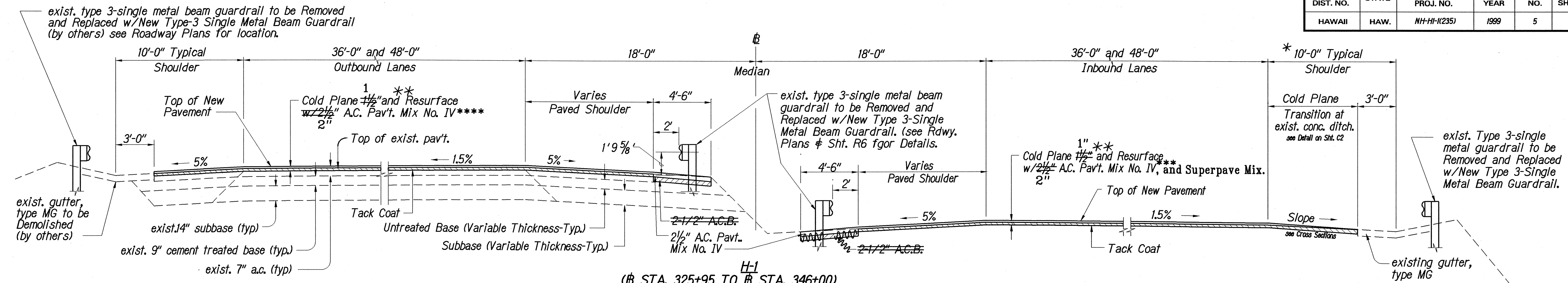
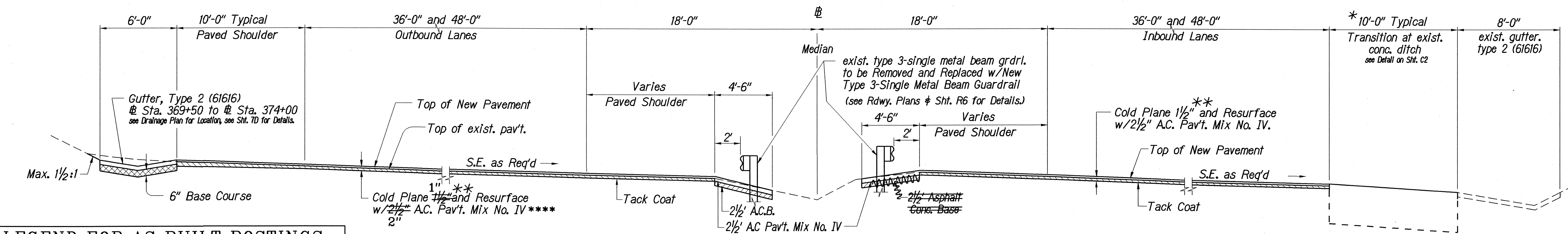


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-K(235)	1999	5	84



**H-1
TANGENT SECTION (WITH GRADE DIFFERENTIAL)**
SCALE: 1/4" = 1'-0"



**H-1 (OUTBOUND)
STA. 357+25 TO STA. 374+75**

**H-1 (INBOUND)
STA. 358+75 TO STA. 372+75**

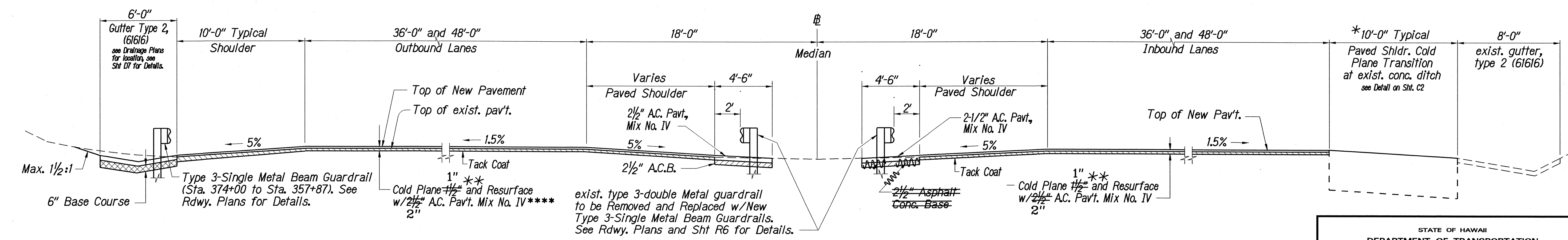
**H-1 SUPERELEVATED SECTION
SCALE: 1/4" = 1'-0"**

LEGEND FOR AS-BUILT POSTINGS

~~~~~ Squiggly line for as-built deletion

==== Double line for as-built deletion

Roadway Text for as-built posting



**H-1 (OUTBOUND)  
STA. 346+00 TO STA. 357+25  
STA. 374+75 TO STA. 376+40  
STA. 384+90 TO STA. 385+10**

**H-1 (INBOUND)  
STA. 346+00 TO STA. 358+75  
STA. 372+75 TO STA. 375+86.50  
STA. 384+90 TO STA. 385+10**

**H-1 TANGENT SECTION  
SCALE: 1/4" = 1'-0"**

\* Refer to Typical Section for Shoulder Lane, as applicable.

\*\* Cold Plane existing pavement an average Depth of 1 1/2" to improve existing pavement profile.

\*\*\* Sta. 335+10 to Sta. 359+80 3rd Lane from Median.

\*\*\*\* Left Lane Cold Plane 1 1/2" and Resurface w/ 2 1/2" A.C. Pav't. mix No. IV.

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**TYPICAL SECTIONS**

**INTERSTATE ROUTE H-1 RESURFACING**  
**Kula IC to Waikale Stream Bridge**  
**F.A.I. Project No. NH-HI-K(235)**

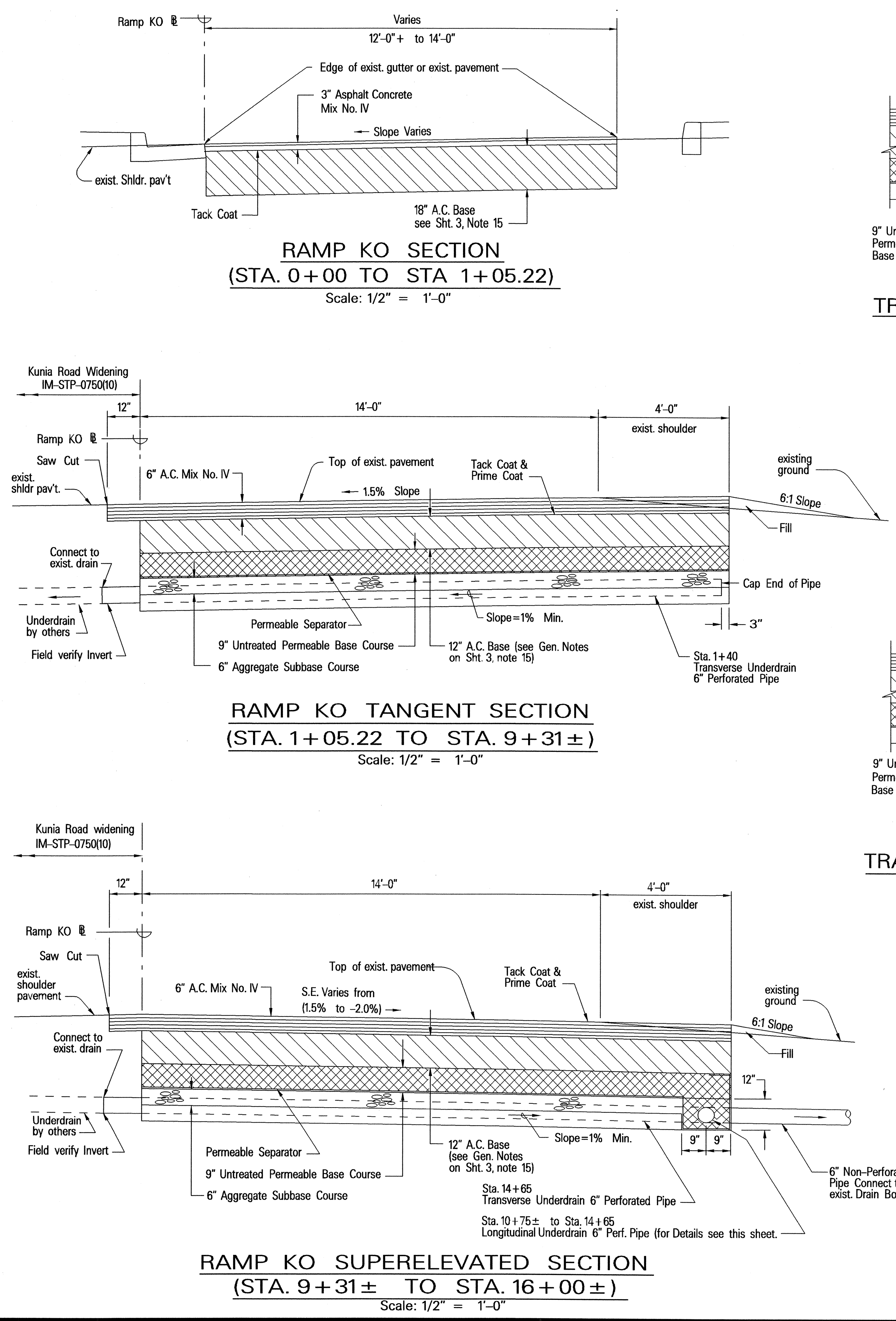
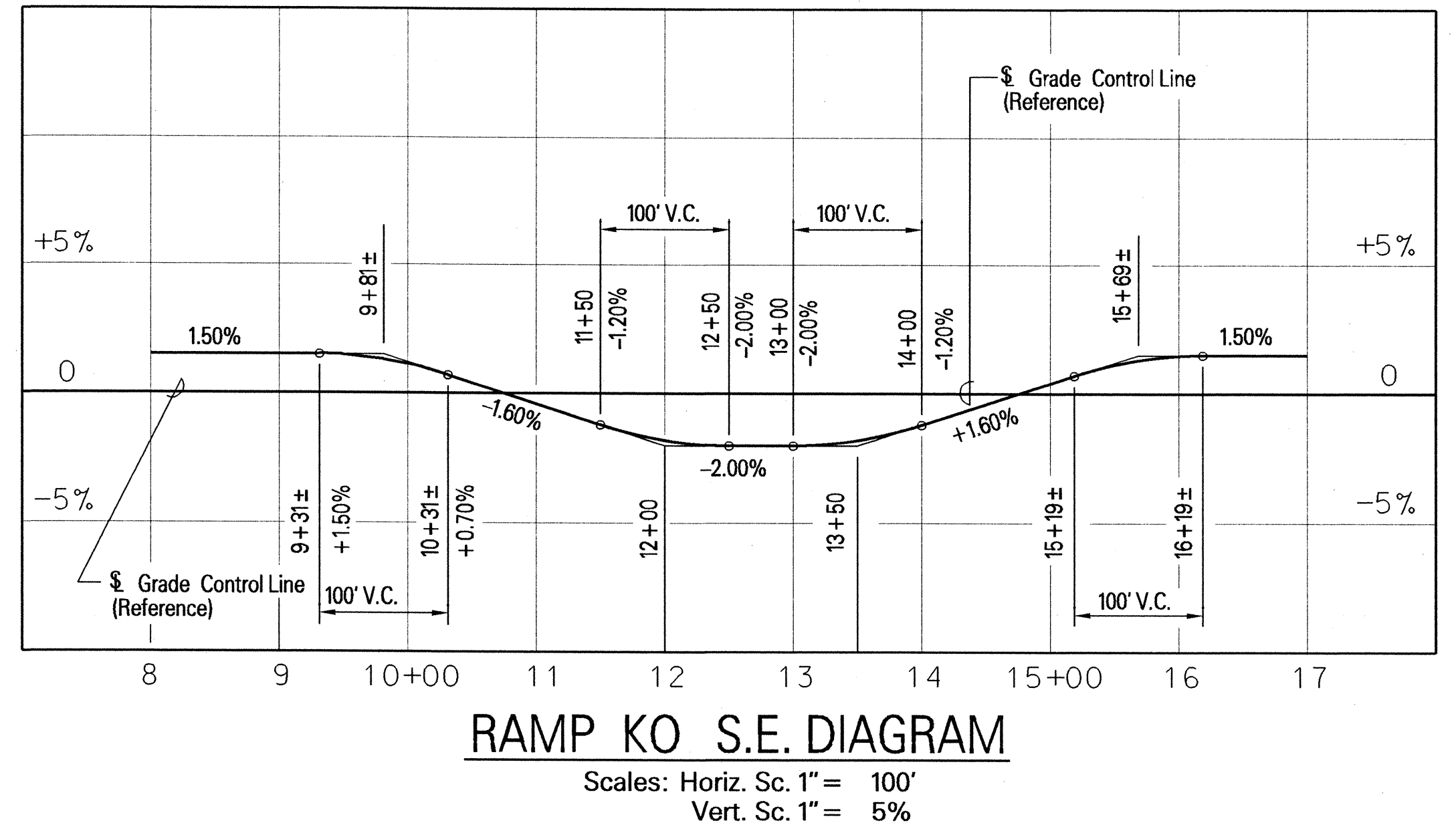
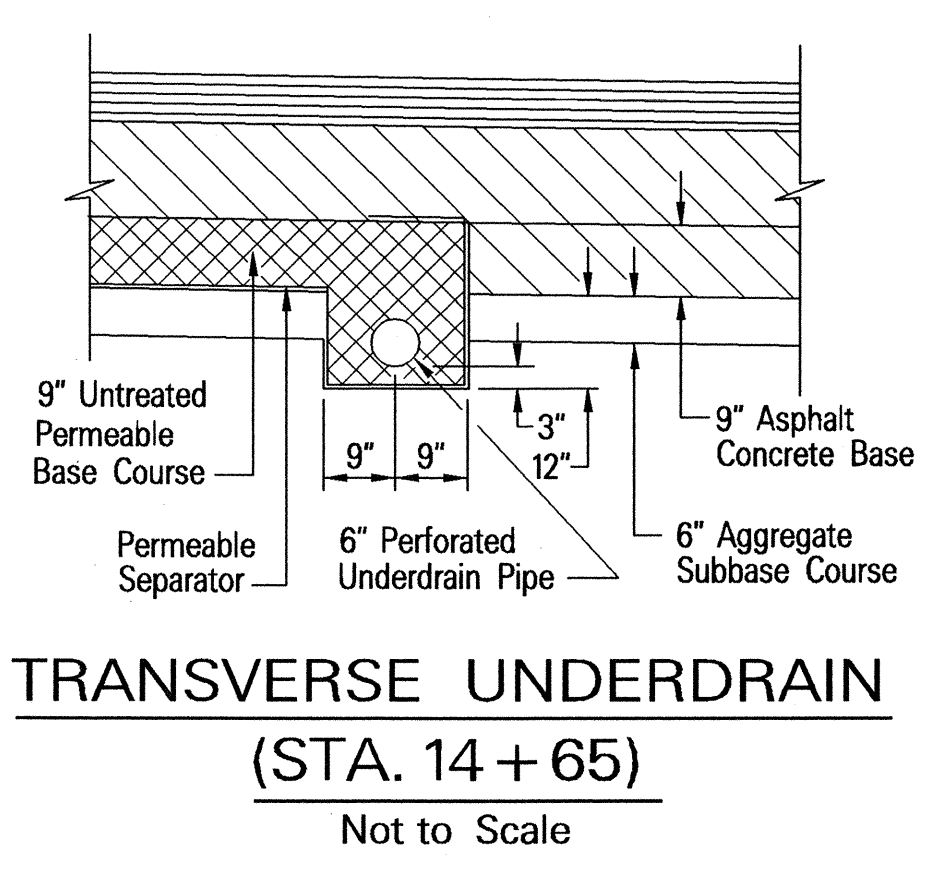
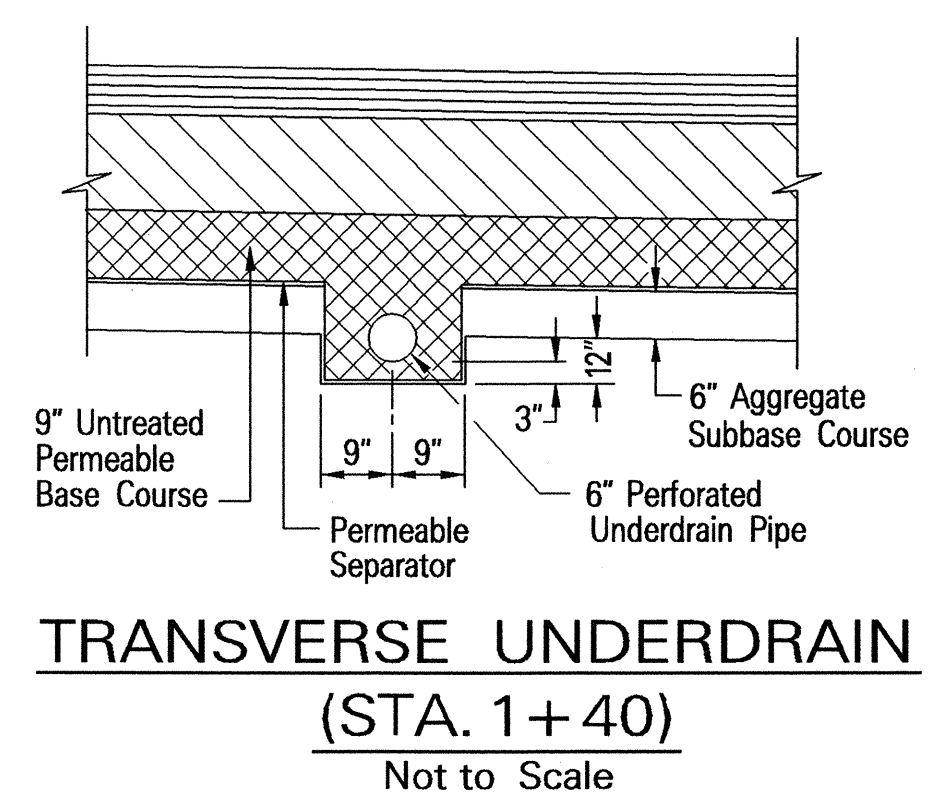
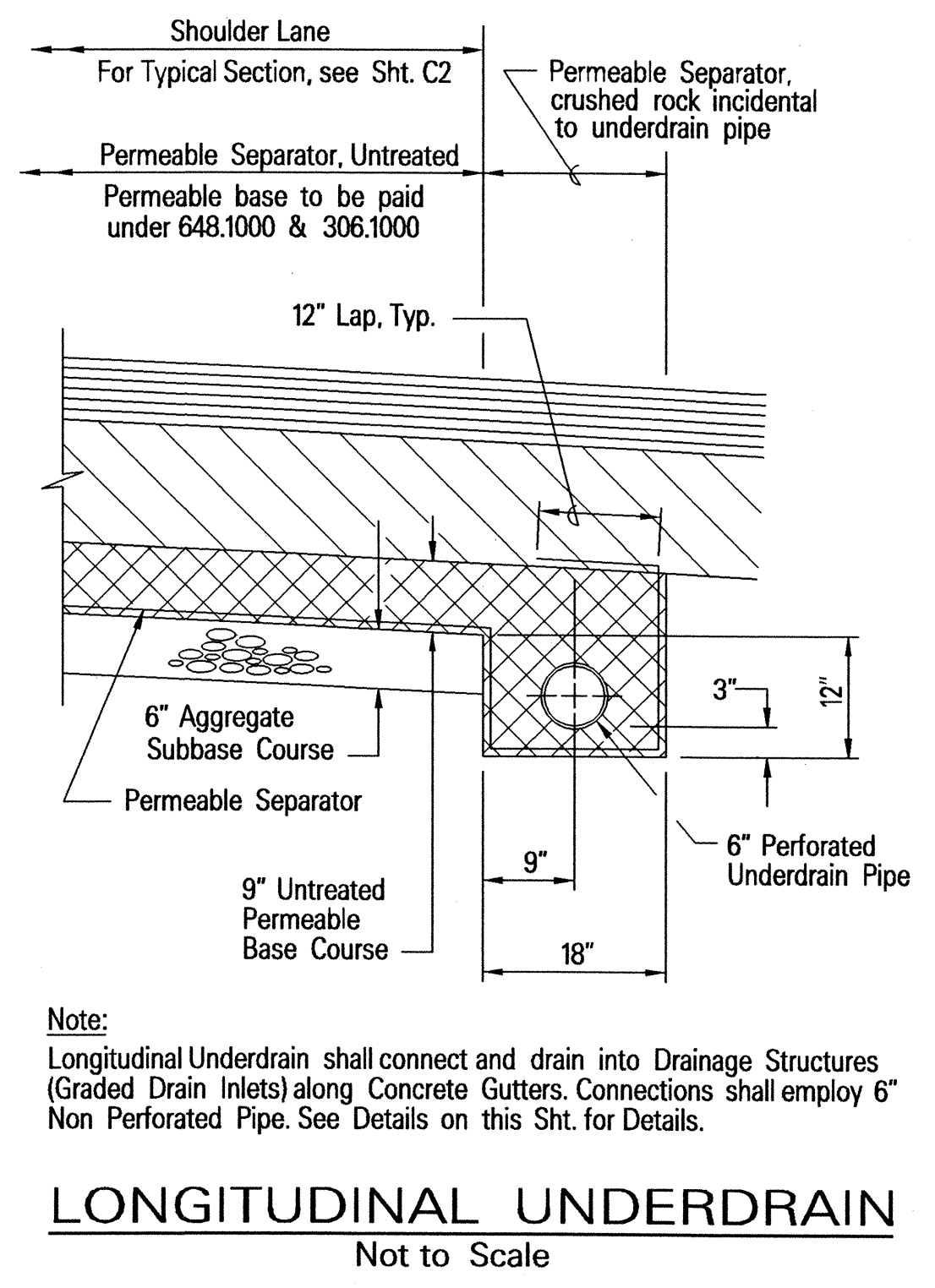
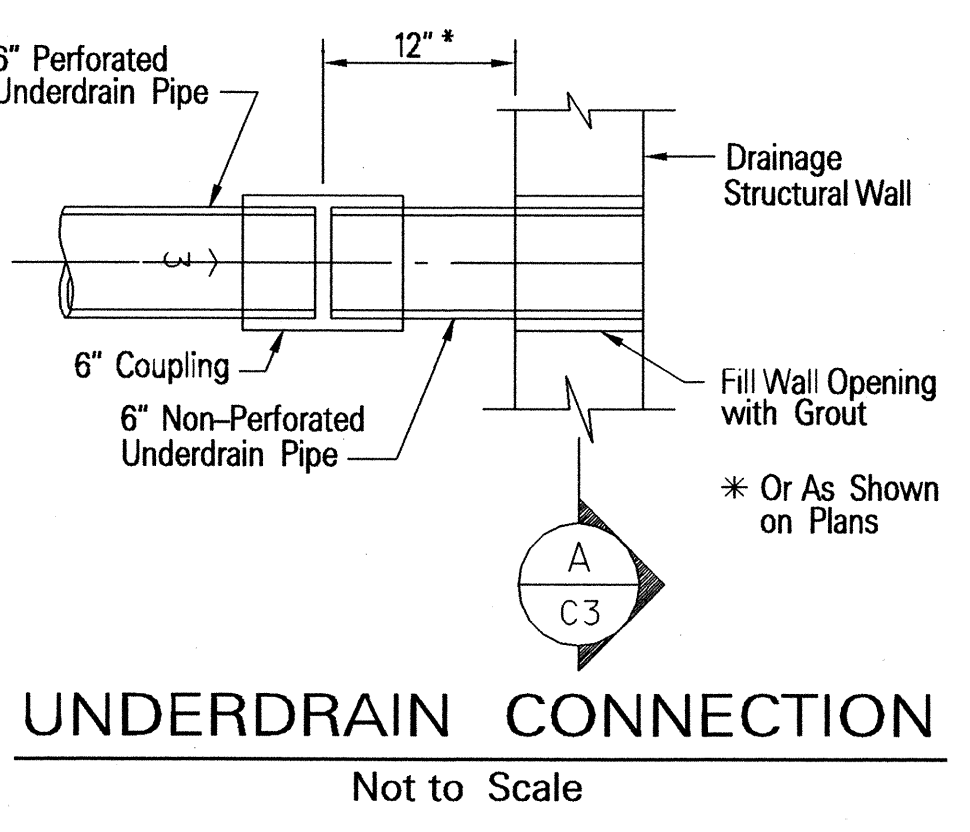
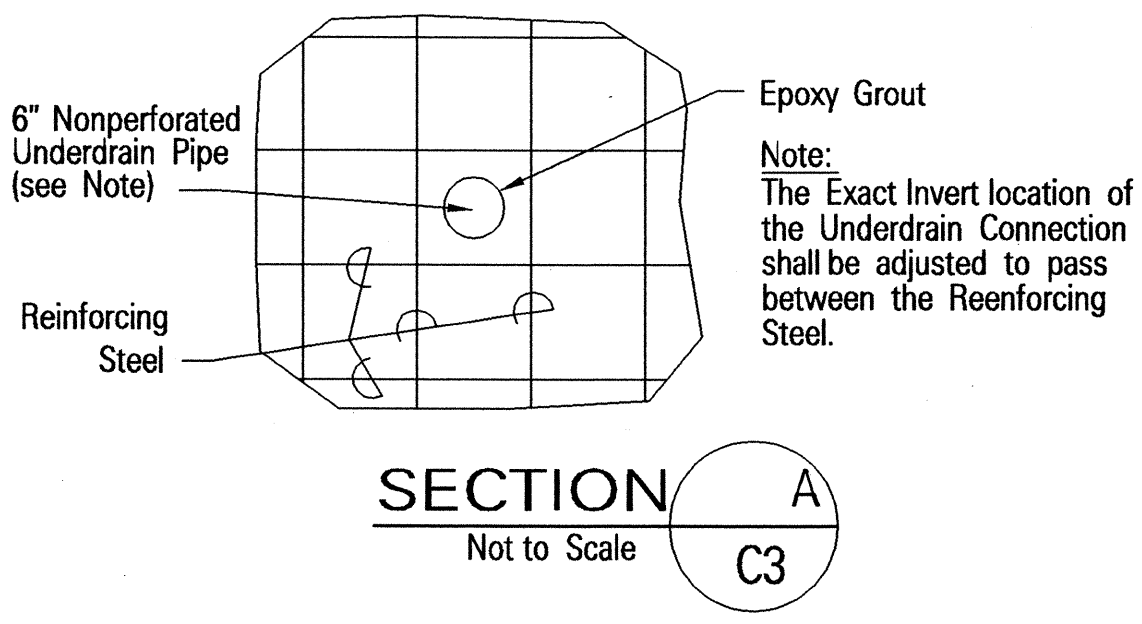
Scale: 1/4" = 1'-0" Date: Feb. 15, 1999

SHEET No. **C1** OF **4** SHEETS

"AS-BUILT"



| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | NH-H1-1(235)       | 1999        | 7         | 84           |



|         |                                                                                       |
|---------|---------------------------------------------------------------------------------------|
| 5/26/00 | Revised Ramp KO Superelevated and Tangent Sections Added Transverse Underdrain Detail |
| Date    | Revision                                                                              |

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

TYPICAL SECTIONS

INTERSTATE ROUTE H-1 RESURFACING

KUNIA IC TO WAIKELE STREAM BRIDGE

F.A.I. Project No. NH-H1-1(235)

Scale: As Shown

Date: May 26, 2000

SHEET NO. C3 OF 4 SHEETS

DATE: 01/26/99

SCALE: 1/2" = 1'-0"

FILE: CO-7a

PKC

OPER: PKC

REVISED: 05/26/00

SURVEY PLOTTED BY

DRAWN BY

CHECKED BY

NOTED BY

QUANTITIES BY

CHECKED BY

ORIGINAL PLAN

NO.

|             |          |
|-------------|----------|
| DATE        | 01/27/99 |
| SCALE       | 1" = 1'  |
| FILE        | 9804-69  |
| DESIGNED BY | SHA+FAI  |
| CHECKED BY  |          |
| NOTED BY    |          |
| DATE        | 01/27/99 |
| SCALE       | 1" = 1'  |
| FILE        | 9804-69  |
| DESIGNED BY | SHA+FAI  |
| CHECKED BY  |          |
| NOTED BY    |          |
| DATE        | 01/27/99 |
| SCALE       | 1" = 1'  |
| FILE        | 9804-69  |
| DESIGNED BY | SHA+FAI  |
| CHECKED BY  |          |
| NOTED BY    |          |

| SCHEDULE-RECONSTRUCTION OF WEAKENED PAVEMENT AREAS<br>(FROM H-1 @ STA. 325+95 TO H-1 @ STA. 347+00) |            |         |                                 |                   |
|-----------------------------------------------------------------------------------------------------|------------|---------|---------------------------------|-------------------|
| LOCATION                                                                                            | STATION    | OFFSET  | WIDTH x LENGTH<br>(Feet X Feet) | AREA<br>(Sq. Ft.) |
| H-1                                                                                                 | @ 326+01   | 43' Lt. | 60 X 22 *                       | 1,320             |
| H-1                                                                                                 | @ 326+07   | 37' Rt. | 48 X 15 *                       | 720               |
| H-1                                                                                                 | @ 326+38.3 | 37' Rt. | 48 X 36                         | 1,728             |
| H-1                                                                                                 | @ 326+61.6 | 23' Lt. | 21 X 110                        | 2,310             |
| H-1                                                                                                 | @ 326+69.6 | 27' Rt. | 30 X 40                         | 1,200             |
| H-1                                                                                                 | @ 329+60   | 42' Rt. | 38 X 80                         | 3,040             |
| H-1                                                                                                 | @ 329+70   | 30' Lt. | 6 X 180                         | 1,080             |
| H-1                                                                                                 | @ 330+55   | 36' Rt. | 24 X 110                        | 2,640             |
| H-1                                                                                                 | @ 331+20   | 19' Lt. | 22 X 80                         | 1,760             |
| H-1                                                                                                 | @ 331+21   | 35' Rt. | 24 X 52                         | 1,248             |
| H-1                                                                                                 | @ 331+49   | 19' Rt. | 22 X 30                         | 660               |
| H-1                                                                                                 | @ 331+76.5 | 52' Rt. | 20 X 85                         | 1,700             |
| H-1                                                                                                 | @ 332+00   | 48' Lt. | 18 - 12 X 240                   | 3,600             |
| H-1                                                                                                 | @ 332+81.7 | 33' Lt. | 18 X 110                        | 1,980             |
| H-1                                                                                                 | @ 334+40   | 19' Lt. | 22 X 80                         | 1,760             |
| H-1                                                                                                 | @ 335+24   | 42' Lt. | 12 X 50                         | 600               |
| H-1                                                                                                 | @ 335+25   | 20' Rt. | 24 X 150                        | 3,600             |
| H-1                                                                                                 | @ 335+52   | 31' Rt. | 46 X 6                          | 276               |
| H-1                                                                                                 | @ 335+77.5 | 42' Lt. | 12 X 45                         | 540               |
| H-1                                                                                                 | @ 336+20   | 42' Lt. | 12 X 40                         | 480               |
| H-1                                                                                                 | @ 336+57.5 | 28' Lt. | 40 X 35                         | 1,400             |
| H-1                                                                                                 | @ 336+78   | 31' Lt. | 46 X 6                          | 276               |
| H-1                                                                                                 | @ 336+98   | 19' Lt. | 22 X 34                         | 748               |
| H-1                                                                                                 | @ 337+07.5 | 21' Rt. | 24 X 215                        | 5,160             |
| H-1                                                                                                 | @ 337+85   | 48' Lt. | 12 X 50                         | 600               |
| H-1                                                                                                 | @ 339+32   | 31' Rt. | 46 X 6                          | 276               |
| H-1                                                                                                 | @ 340+07.5 | 19' Rt. | 22 X 145                        | 3,190             |
| H-1                                                                                                 | @ 342+44   | 16' Rt. | 16 X 110                        | 1,760             |
| H-1                                                                                                 | @ 343+41.9 | 84' Lt. | 23.1 X 491                      | 11,342            |
| H-1                                                                                                 | @ 343+67.5 | 22' Rt. | 26 X 95                         | 2,470             |
| H-1                                                                                                 | @ 344+80   | 35' Lt. | 14 X 80                         | 1,120             |
| H-1                                                                                                 | @ 345+90   | 47' Lt. | 70 X 6                          | 420               |
| H-1                                                                                                 | @ 345+96.5 | 48' Lt. | 12 X 8                          | 96                |
| H-1                                                                                                 | @ 346+32.6 | 48' Lt. | 12 X 65                         | 780               |
| H-1                                                                                                 | @ 346+92.5 | 59' Lt. | 34 X 55                         | 1,870             |
| TOTAL                                                                                               |            |         |                                 | 63,750            |

| SCHEDULE-RECONSTRUCTION OF WEAKENED PAVEMENT AREAS<br>(FROM H-1 @ STA. 347+01 TO H-1 @ STA. 384+90*) |            |         |                                 |                   |
|------------------------------------------------------------------------------------------------------|------------|---------|---------------------------------|-------------------|
| LOCATION                                                                                             | STATION    | OFFSET  | WIDTH x LENGTH<br>(Feet X Feet) | AREA<br>(Sq. Ft.) |
| H-1                                                                                                  | @ 347+40   | 69' Lt. | 15 X 40                         | 600               |
| H-1                                                                                                  | @ 347+46.7 | 51' Rt. | 18 X 50                         | 900               |
| H-1                                                                                                  | @ 348+72.5 | 52' Lt. | 20 X 135                        | 2,700             |
| H-1                                                                                                  | @ 349+09   | 67' Lt. | 16 X 88                         | 1,408             |
| H-1                                                                                                  | @ 349+76.5 | 68' Lt. | 13 X 47                         | 611               |
| H-1                                                                                                  | @ 349+91   | 28' Lt. | 28 X 6                          | 168               |
| H-1                                                                                                  | @ 350+92.5 | 19' Rt. | 22 X 105                        | 2,310             |
| H-1                                                                                                  | @ 351+60.5 | 67' Lt. | 12 X 85                         | 1,020             |
| H-1                                                                                                  | @ 352+00   | 35' Lt. | 52 X 6                          | 312               |
| H-1                                                                                                  | @ 353+40   | 60' Rt. | 12 X 120                        | 1,440             |
| H-1                                                                                                  | @ 354+98.5 | 60' Rt. | 12 X 80                         | 960               |
| H-1                                                                                                  | @ 355+00   | 48' Lt. | 12 X 40                         | 480               |
| H-1                                                                                                  | @ 355+25   | 64' Lt. | 19 X 150                        | 2,850             |
| H-1                                                                                                  | @ 355+85   | 19' Lt. | 22 X 30                         | 660               |
| H-1                                                                                                  | @ 356+62.5 | 20' Rt. | 20 X 125                        | 2,500             |
| H-1                                                                                                  | @ 356+70   | 64' Lt. | 19 X 140                        | 2,660             |
| H-1                                                                                                  | @ 358+47   | 29' Rt. | 36 X 250                        | 9,000             |
| H-1                                                                                                  | @ 359+76.7 | 40' Rt. | 52 X 20 *                       | 1,040             |
| H-1                                                                                                  | @ 359+99   | 45' Lt. | 62 X 15 *                       | 930               |
| H-1                                                                                                  | @ 361+02.3 | 40' Rt. | 52 X 20 *                       | 1,040             |
| H-1                                                                                                  | @ 361+23.6 | 45' Lt. | 62 X 20 *                       | 1,240             |
| H-1                                                                                                  | @ 364+33.2 | 36' Lt. | 12 X 175                        | 2,100             |
| H-1                                                                                                  | @ 365+75.6 | 46' Lt. | 15 X 50                         | 750               |
| H-1                                                                                                  | @ 365+80.3 | 65' Lt. | 22 X 40                         | 880               |
| H-1                                                                                                  | @ 367+20.3 | 56' Lt. | 39 X 244                        | 9,516             |
| H-1                                                                                                  | @ 368+43.5 | 42' Lt. | 72 X 6                          | 432               |
| H-1                                                                                                  | @ 369+31.9 | 17' Rt. | 18 X 95                         | 1,710             |
| H-1                                                                                                  | @ 369+35.1 | 18' Lt. | 16 X 70                         | 1,120             |
| H-1                                                                                                  | @ 371+37.5 | 27' Rt. | 36 X 205                        | 7,380             |
| H-1                                                                                                  | @ 373+50   | 18' Rt. | 18 X 70                         | 1,260             |
| H-1                                                                                                  | @ 375+79   | 40' Rt. | 52 X 15 *                       | 780               |
| H-1                                                                                                  | @ 376+30   | 44' Lt. | 62 X 20 *                       | 1,240             |
| H-1                                                                                                  | @ 385+00   | 44' Lt. | 60 X 20 *                       | 1,200             |
| H-1                                                                                                  | @ 385+00   | 45' Rt. | 62 X 20 *                       | 1,240             |
| TOTAL                                                                                                |            |         |                                 | 64,437            |

GRAND TOTAL = 128, 187s.f., use 128, 200 s.f.

\* Bridge Approach Reconstruction

See Sheet 8S-1 for Revised  
Pavement Reconstruction  
Schedule.

| FED. ROAD<br>DIST. NO. | STATE | FED. AID<br>PROJ. NO. | FISCAL<br>YEAR | SHEET<br>NO. | TOTAL<br>SHEETS |
|------------------------|-------|-----------------------|----------------|--------------|-----------------|
| HAWAII                 | HAW.  | NH-HI-K(235)          | 1999           | 8            | 84              |

LEGEND FOR  
AS-BUILT POSTINGS

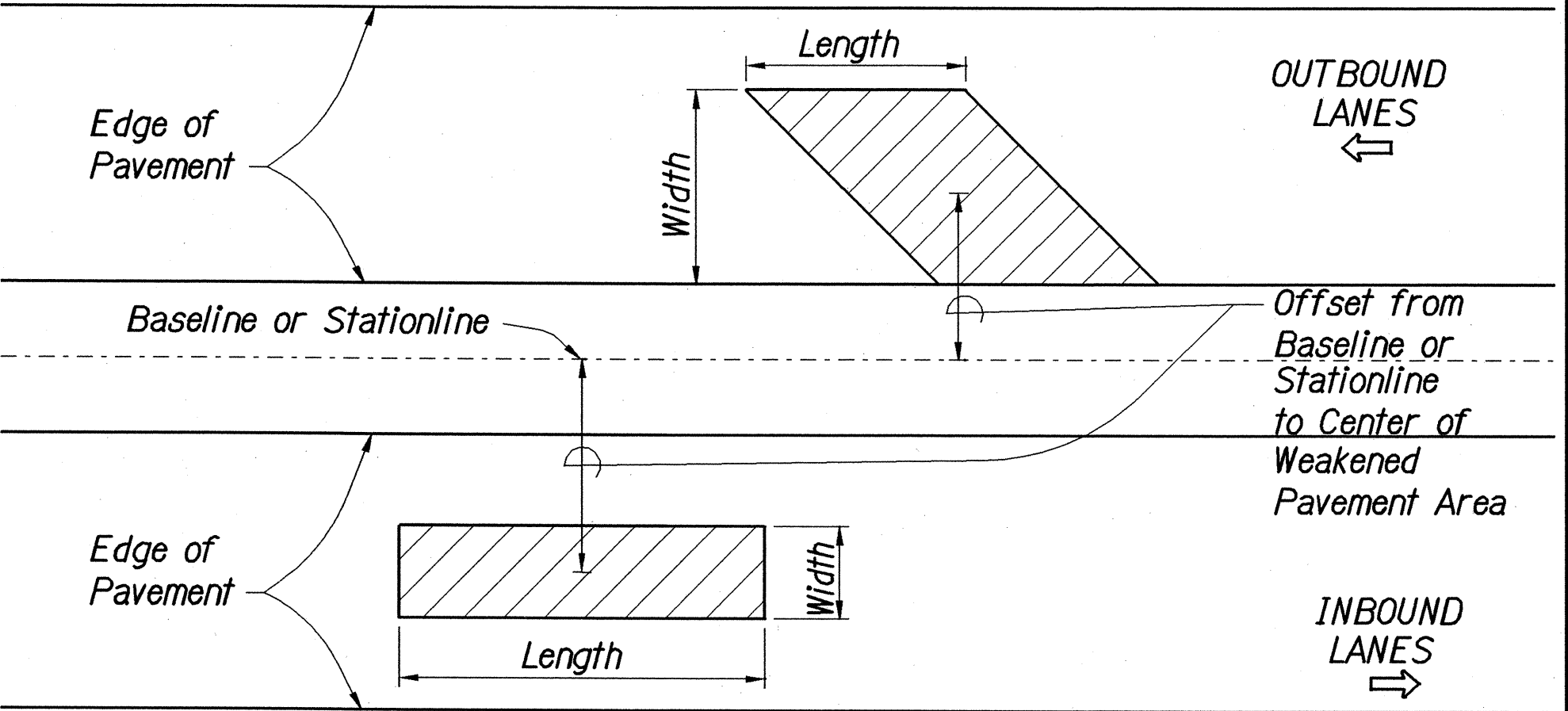
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as-built deletion

100-00

Text for as-built
posting

Roadway



TYPICAL LOCATION PLAN
FOR WEAKENED PAVEMENT AREAS
Not to Scale

BENJAMIN S. TANAKA

LICENSED
PROFESSIONAL
ENGINEER
No. 2055-C

HAWAII, U.S.A.

THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**WEAKENED PAVEMENT
DETAILS AND SCHEDULE**

INTERSTATE ROUTE H-1 RESURFACING
Kunia IC to Waialea Stream Bridge
F.A.I. Project No. NH-HI-K(235)

Scale: As Shown Date: Apr. 30, 1999

SHEET No. 04 OF 4 SHEETS

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(235)	1999	85-1	84

INBOUND AS-BUILT SCHEDULE OF RECONSTRUCTED WEAKENED
PAVEMENT AREAS FROM H-1 BL STA 327+22 TO STA 374+12

LOCATION	STATION	OFFSET RIGHT	WIDTH (ft.)	LENGTH (ft.)	AREA (sq. ft.)
BRIDGE APPROACH H-1 I/B	B.L. 326+07.0	37	48	15	720.00
H-1 I/B	B.L. 327+21.5	24'	12	219	2628.00
H-1 I/B	B.L. 328+83.5	36'	12	537	6444.00
H-1 I/B	B.L. 329+52.0	24	12	32	384.00
H-1 I/B	B.L. 330+92.0	24'	12	182	2184.00
H-1 I/B	B.L. 332+61.0	22.5	9	114	1026.00
H-1 I/B	B.L. 333+25.5	36'	12	159	1908.00
H-1 I/B	B.L. 334+54.5	24'	12	39	468.00
H-1 I/B	B.L. 335+32.0	24'	12	56	672.00
H-1 I/B	B.L. 335+65.5	38.4	7.25	87	630.75
H-1 I/B	B.L. 336+17.5	21.6	7.25	115	833.75
H-1 I/B	B.L. 337+68.0	24'	12	114	1368.00
H-1 I/B	B.L. 338+83.0	24'	12	60	720.00
H-1 I/B	B.L. 339+40.0	48	12	6	72.00
H-1 I/B	B.L. 339+68.0	36'	12	62	744.00
H-1 I/B	B.L. 340+43.5	33.6	7.25	89	645.25
H-1 I/B	B.L. 341+84.5	48.5	13	213	2769.00
H-1 I/B	B.L. 341+94.5	36'	12	149	1788.00
H-1 I/B	B.L. 342+38.5	24'	12	601	7212.00
H-1 I/B	B.L. 343+27.0	33.6	7.25	24	174.00
H-1 I/B	B.L. 343+94.5	36'	12	75	900.00
H-1 I/B	B.L. 344+46.0	50.4	7.25	166	1203.50
H-1 I/B	B.L. 346+21.0	24'	12	44	528.00
H-1 I/B	B.L. 347+83.5	48'	12	33	396.00
H-1 I/B	B.L. 348+54.5	50.4	7.25	109	790.25
H-1 I/B	B.L. 349+40.0	22'	8	52	416.00
H-1 I/B	B.L. 349+49.0	48'	12	32	384.00
H-1 I/B	B.L. 350+79.0	33.6	7.25	42	304.50
H-1 I/B	B.L. 350+90.5	24'	12	139	1668.00
H-1 I/B	B.L. 353+02.5	42'	7.25	397	2878.25
H-1 I/B	B.L. 355+31.5	54'	7.25	107	775.75
H-1 I/B	B.L. 355+79.0	21.6	7.25	144	1044.00
H-1 I/B	B.L. 357+59.0	36'	12	88	1056.00
H-1 I/B	B.L. 358+22.5	24'	12	343	4116.00
H-1 I/B	B.L. 358+50.5	50.4	7.25	271	1964.75
H-1 I/B	B.L. 359+14.5	36'	12	147	1764.00
BRIDGE APPROACH H-1 I/B	B.L. 359+76.7	40	52	20	1040.00
BRIDGE APPROACH H-1 I/B	B.L. 361+02.3	40	52	20	1040.00
H-1 I/B	B.L. 361+34.5	36'	12	85	1020.00
H-1 I/B	B.L. 361+60.0	22'	8	84	672.00
H-1 I/B	B.L. 369+62.0	38.4	7.25	28	203.00
H-1 I/B	B.L. 370+10.5	24'	12	127	1524.00
H-1 I/B	B.L. 370+63.5	36'	12	71	852.00
H-1 I/B	B.L. 371+69.0	24'	12	139	1668.00
H-1 I/B	B.L. 371+78.0	36	12	122	1464.00
H-1 I/B	B.L. 373+49.0	24'	12	76	912.00
H-1 I/B	B.L. 373+68.5	48'	12	229	2748.00
H-1 I/B	B.L. 374+12.0	22'	8	50	400.00
BRIDGE APPROACH H-1 I/B	B.L. 375+79.0	40	52	15	780.00
BRIDGE APPROACH H-1 I/B	B.L. 385+00.0	45	62	20	1240.00
TOTAL					69142.75

OUTBOUND AS-BUILT SCHEDULE OF RECONSTRUCTED WEAKENED
PAVEMENT AREAS FROM H-1 BL STA 328+20 TO STA 371+67

LOCATION	STATION	OFFSET LEFT	WIDTH (ft.)	LENGTH (ft.)	AREA (sq. ft.)
BRIDGE APPROACH H-1 O/B	B.L. 326+01.00	43'	60	22	1320.00
H-1 O/B	B.L. 328+20.50	48'	12	69	828.00
H-1 O/B	B.L. 329+90.50	21.6'	7.25	255	1848.75
H-1 O/B	B.L. 330+38.00	36'	12	108	1296.00
H-1 O/B	B.L. 332+03.50	48'	12	33	396.00
H-1 O/B	B.L. 332+30.00	21.6'	7.25	158	1145.50
H-1 O/B	B.L. 333+24.00	36'	12	36	432.00
H-1 O/B	B.L. 333+75.50	21.6'	7.25	51	369.75
H-1 O/B	B.L. 334+39.50	21.6'	7.25	63	456.75
H-1 O/B	B.L. 335+63.50	36'	12	11	132.00
H-1 O/B	B.L. 335+80.50	48'	12	45	540.00
H-1 O/B	B.L. 336+00.00	21.6'	7.25	200	1450.00
H-1 O/B	B.L. 337+93.50	48'	12	21	252.00
H-1 O/B	B.L. 339+83.00	48'	12	34	408.00
H-1 O/B	B.L. 340+77.00	60'	12	20	240.00
H-1 O/B	B.L. 342+47.50	30'	24	149	3576.00
H-1 O/B	B.L. 343+12.00	60'	12	140	1680.00
H-1 O/B	B.L. 344+95.00	30'	24	200	4800.00
H-1 O/B	B.L. 347+11.00	36'	12	16	192.00
H-1 O/B	B.L. 347+12.50	60'	12	77	924.00
H-1 O/B	B.L. 347+21.50	48'	12	95	1140.00
H-1 O/B	B.L. 348+11.50	60'	12	61	732.00
H-1 O/B	B.L. 348+45.50	24'	12	41	492.00
H-1 O/B	B.L. 349+02.00	36'	12	266	3192.00
H-1 O/B	B.L. 349+36.00	24'	12	60	720.00
H-1 O/B	B.L. 349+46.50	48'	12	25	300.00
H-1 O/B	B.L. 350+19.00	24'	12	32	384.00
H-1 O/B	B.L. 351+47.50	24'	12	101	1212.00
H-1 O/B	B.L. 351+77.00	36'	12	42	504.00
H-1 O/B	B.L. 351+94.50	48'	12	35	420.00
H-1 O/B	B.L. 354+74.00	48'	12	12	144.00
H-1 O/B	B.L. 355+31.00	60'	12	26	312.00
H-1 O/B	B.L. 356+74.50	60'	12	187	2244.00
H-1 O/B	B.L. 358+13.50	24'	12	23	276.00
H-1 O/B	B.L. 358+47.00	60'	12	72	864.00
H-1 O/B	B.L. 359+23.50	24'	12	31	372.00
BRIDGE APPROACH H-1 O/B	B.L. 359+99.00	45'	62	15	930.00
BRIDGE APPROACH H-1 O/B	B.L. 361+23.60	45'	62	20	1240.00
H-1 O/B	B.L. 361+36.00	24'	12	60	720.00
H-1 O/B	B.L. 363+53.00	24'	12	214	2568.00
H-1 O/B	B.L. 364+82.00	36'	12	740	8880.00
H-1 O/B	B.L. 365+39.00	24'	12	54	648.00
H-1 O/B	B.L. 366+21.00	24'	12	30	360.00
H-1 O/B	B.L. 367+05.00	54'	24	294	7056.00
H-1 O/B	B.L. 367+99.00	24'	12	106	1272.00
H-1 O/B	B.L. 371+57.00	21.6'	7.25	20	145.00
BRIDGE APPROACH H-1 O/B	B.L. 376+30.00	44'	62	20	1240.00
BRIDGE APPROACH H-1 O/B	B.L. 385+00.00	44'	60	20	1200.00
TOTAL					61853.75

DATE 1/10/00

SURVEY PLANNED BY

DESIGNED BY

TRACED BY

NOTED BY

CHECKED BY

ORIGINAL PLAN

NOTE BOOK

DATE 1/10/00

NO. 000000

This sheet prepared during "AS-BUILT" posting.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
WEAKENED PAVEMENT
DETAILS AND SCHEDULE
INTERSTATE ROUTE H-1 RESURFACING
Kunia IC to Waialeale Stream Bridge
F.A.I. Project No. NH-HI-1(235)
Scale: As Shown Date: Apr. 30, 1999

"AS-BUILT"