INDEX TO DRAWINGS	
SHT. NO.	DESCRIPTION
1	TITLE SHEET
2	TYPICAL ROADWAY SECTIONS
3	PLAN & PROFILE
4-5	DETAILED ROADWAY PLAN
6	MISCELLANEOUS ROADWAY PROFILES
7	BORING LOGS
8-13	MISCELLANEOUS ROADWAY DETAILS
14-17	STREET & HIGHWAY LIGHTING PLANS
18-34	UTILITY PLANS & DETAILS
35-38	MISCELLANEOUS DRAINAGE DETAILS
39-40	CROSS SECTIONS
41-98	VIADUCT STRUCTURE & DETAILS

* SHEET NOS. 41A & 97A ADDED TO PLANS.

* SHEET NO. C.O.90A ADDED TO PLANS.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
HONOLULU, HAWAII
"AS BUILT"
PLANS FOR
CONSTRUCTION OF A PORTION OF

INTERSTATE ROUTE H-1

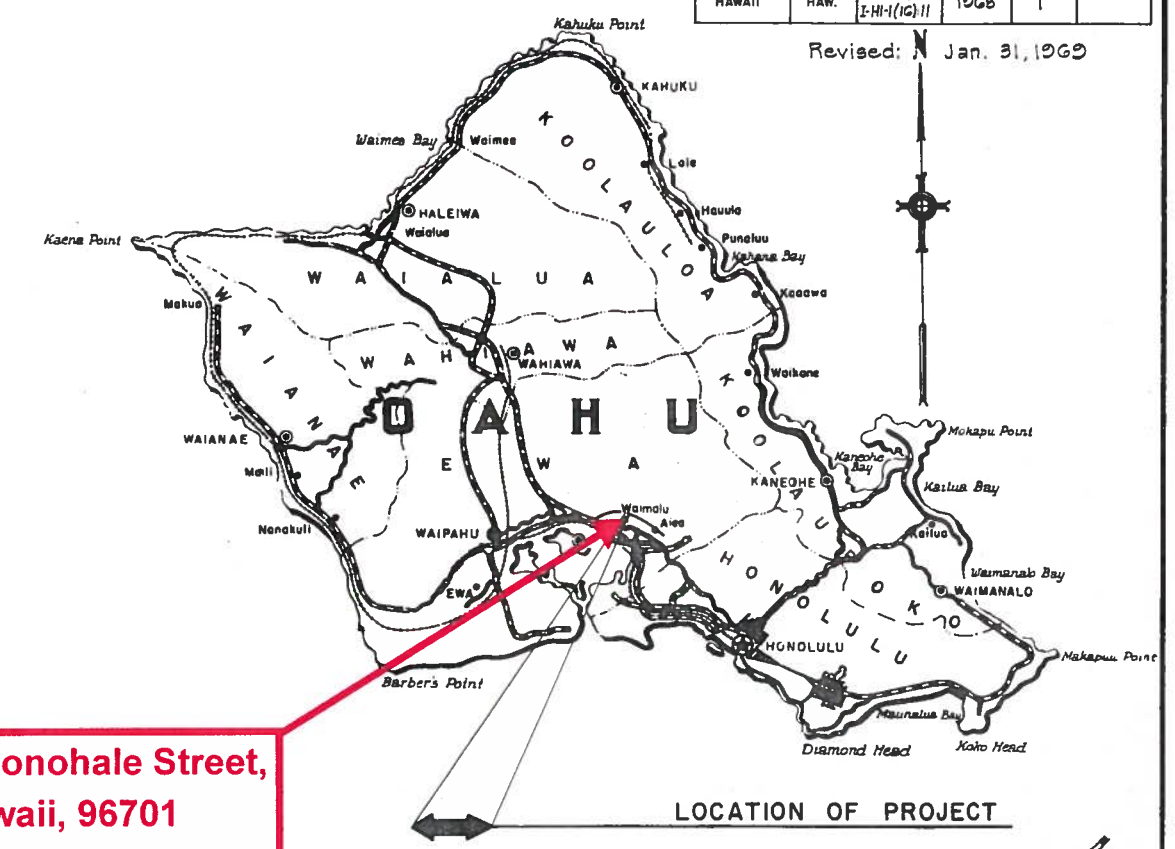
WAIMALU VIADUCT

FEDERAL AID INTERSTATE PROJECT NUMBERS
I-HI-1(63):11 & I-HI-1(16):11

DISTRICT OF EWA
ISLAND OF OAHU

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(63):11 I-HI-1(16):11	1968	1	

Revised: Jan. 31, 1969



LOCATION OF PROJECT

Federal Aid Projects Previously Constructed Or Under Construction

98-314 Ponohale Street,
Aiea Hawaii, 96701

SCALES:

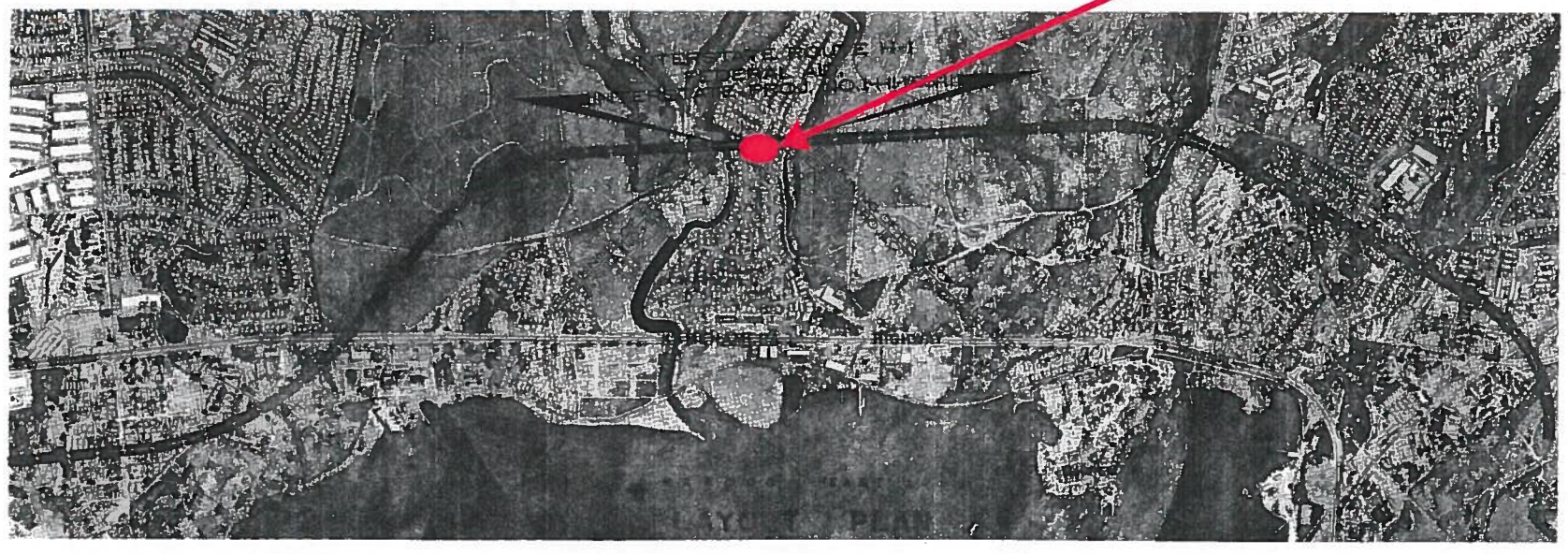
PLAN & PROFILE	HOR.	1"= 100'
	VER.	1"= 10'
DETAIL ROADWAY PLAN		1"= 50' 1"= 20'
CROSS SECTION	HOR.	1"= 20' 1"= 5'
	VER.	1"= 20' - 1"= 5'

NORTH

INTERSTATE HAWAII H-1

DESIGN CLASSIFICATION

ADT (1968)	0
DESIGN ADT (1988)	88,650
DHV	10,760
D	60/40
T	5%
V	60 MPH



1000 0 1000 2000 3000
SCALE IN FEET

GROSS LENGTH OF PROJECT	0.256 MI.
BRIDGES OVER 20.00' SPAN	0.236 MI.
NET LENGTH OF ROADWAY	0.020 MI.

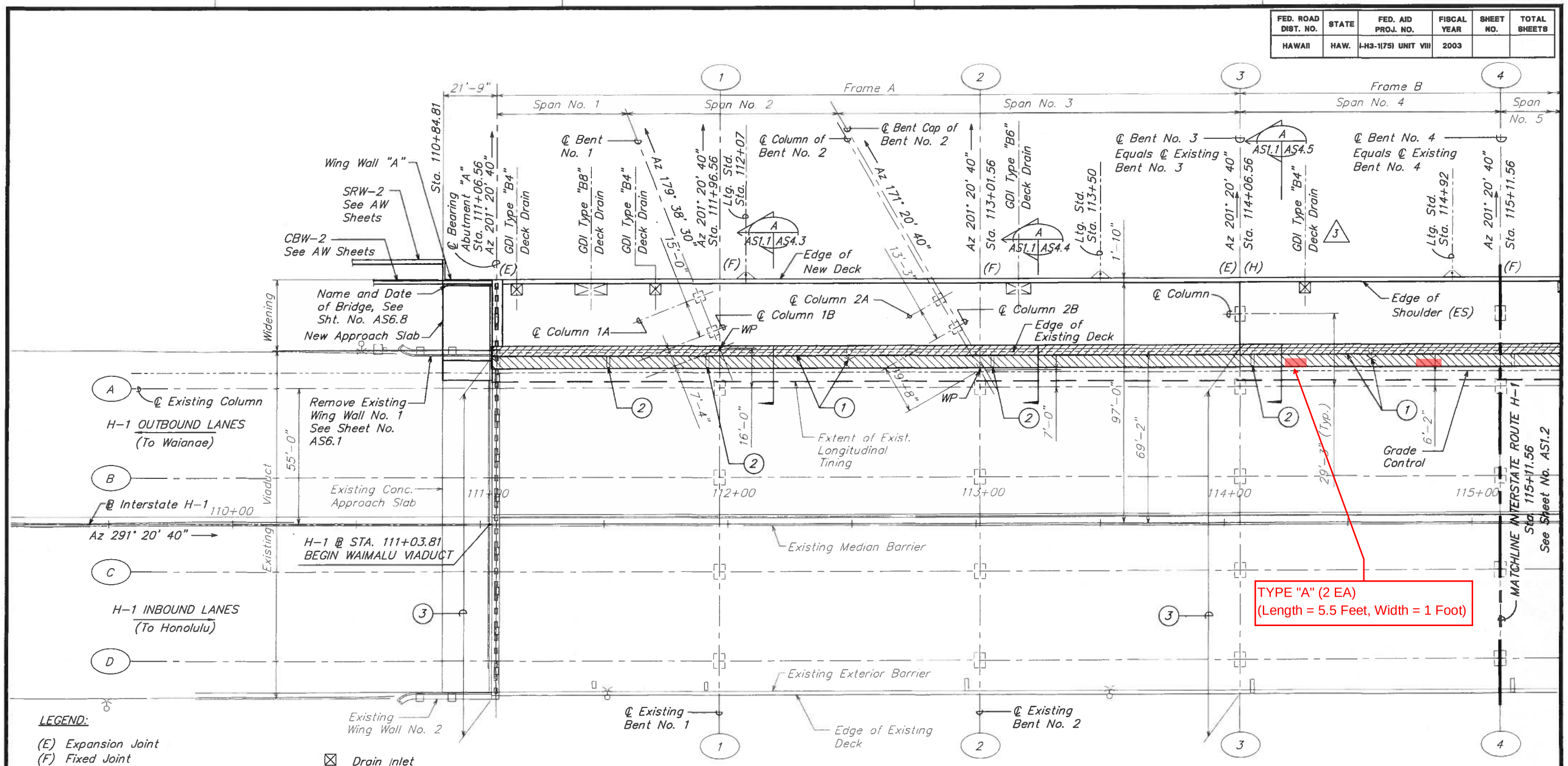
Aug. 1968 DATE
50511 Local 301 PHONE
"B" HWY. DESIGN UNIT
S.F. Yuen DESIGN ENGR.

ORIGINAL PLANS
SURVEY PLOTTED BY
DESIGNED BY
DRAWN BY
TRACED BY
QUANTITIES BY
QUANTITIES CHECKED BY
CHECKED BY
NOTE BOOK
No.
DATE

INSTALLATION OF NEW POLYCARBONATE PLASTIC BIRD SPIKES

INSTALLATION OF NEW POLYCARBONATE PLASTIC BIRD SPIKES

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(175) UNIT VIII	2003		



LEGEND:

(E) Expansion Joint
(F) Fixed Joint
(H) Hinged Joint

(1) Remove Existing Railing and Deck
Remove Existing Light Standards
Refer to Sheet Nos. AS18.1 to AS18.3
Stage 11 of Viaduct Construction Sequence

(2) Plug Existing Deck Storm Drain,
See Detail on Sheet No. AS16.12 and AS16.13
Refer to Sheet Nos. AS18.1 to AS18.3, Stage 20 of Viaduct Construction Sequence

(3) Remove Existing Compression Seal and Replace with New Seal
See Sheet Nos. AS17.5 to AS17.11

Drain Inlet
Closure Pour
Partial Removal of Existing Deck and Replace with Overlay.

REFERENCE DRAWINGS:

1. Light Standard Details, See Sheet No. AS16.6.
2. New Drain Inlet Details, See Sheet Nos. AS16.14 to AS16.20.
3. Approach Slab Details, See Sheet Nos. AS7.9 to AS7.11.
4. Closure Slab Details, See Sheet No. AS15.8 and AS15.9.
5. Foundation Plan, See Sheet Nos. AS2.1 to AS2.3.
6. Deck Drain Stations, See Sheet No. AC7.9.
7. See Sheet Nos. AS2.1 to AS2.3 for New and Existing ROW.

PARTIAL LAYOUT PLAN – ABUTMENT "A" TO BENT NO. 4

SCALE: 1" = 20'–0"

A AS1.1 AS1.1

DATE	REVISION
6/20/03	3 Relocate Drain

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PARTIAL LAYOUT PLAN
ABUTMENT "A" TO BENT NO. 4

INTERSTATE ROUTE H–3
H–3 FINISH (UNIT VIII)
F.A.I. Proj. No. I–H3–1(75) Unit VIII

Scale: As Noted Date: Mar. 31, 2003

SHEET No. AS1.1 OF 150 SHEETS

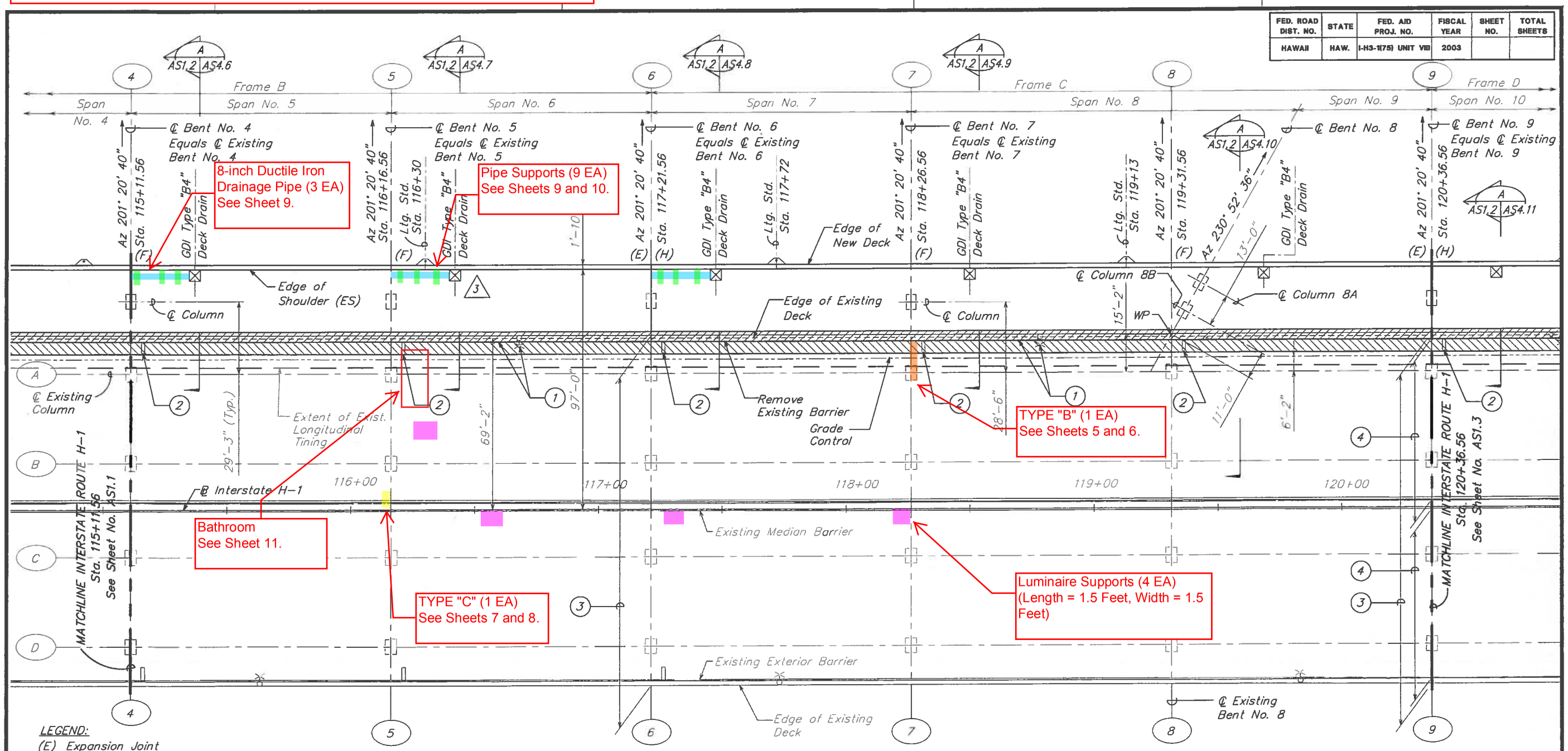
ORIGINAL PLAN | SURVEY PLOTTED BY | DRAWN BY | TRACED BY | DESIGNED BY | QUANTITIES BY | CHECKED BY | NOTE BOOK | No. | DATE

\\Cc1\vol\2001\10066-WAIMALU VIAD_JCT\06-23-03 AS AD03\WV-AS0101.dwg, AS1.1, 5/15/2003 11:22:45 AM, KSFinc pc3

WV-AS0101.DWG
1 = 1

INSTALLATION OF NEW POLYCARBONATE PLASTIC BIRD SPIKES

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003		



LEGEND:

(E) Expansion Joint
(F) Fixed Joint
(H) Hinged Joint

(1) Remove Existing Railing and Deck
Remove Existing Light Standards
Refer to Sheet Nos. AS18.1 to AS18.3
Stage [11] of Viaduct Construction Sequence

(2) Plug Existing Deck Storm Drain,
See Detail on Sheet No. AS16.12 and AS16.13
Refer to Sheet Nos. AS18.1 to AS18.3, Stage [20] of Viaduct Construction Sequence

(3) Remove Existing Compression Seal and Replace with New Seal
See Sheet Nos. AS17.5 to AS17.11

(4) Install structural steel plates.
See sht. nos. AS17.5 to AS17.11.

Drain Inlet
Closure Pour
Partial Removal of Existing Deck and Replace with Overlay.

REFERENCE DRAWINGS:

1. Light Standard Details, See Sheet No. AS16.6.
2. New Drain Inlet Details, See Sheet Nos. AS16.14 to AS16.20.
3. Approach Slab Details, See Sheet Nos. AS7.9 to AS7.11.
4. Closure Slab Details, See Sheet No. AS15.8 and AS15.9.
5. Foundation Plan, See Sheet Nos. AS2.1 to AS2.3.
6. Deck Drain Stations, See Sheet No. AC7.9 and AC7.10.
7. See Sheet Nos. AS2.1 to AS2.3 for New and Existing ROW.

PARTIAL LAYOUT PLAN – BENT NO. 4 TO BENT NO. 9 (A AS1.2 AS1.2)
SCALE: 1" = 20'-0"

DATE	REVISION
6/20/03	3 Correct Drain Location

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PARTIAL LAYOUT PLAN
BENT NO. 4 TO BENT NO. 9

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: As Noted Date: Mar. 31, 2003

SHEET No. AS1.2 OF 150 SHEETS

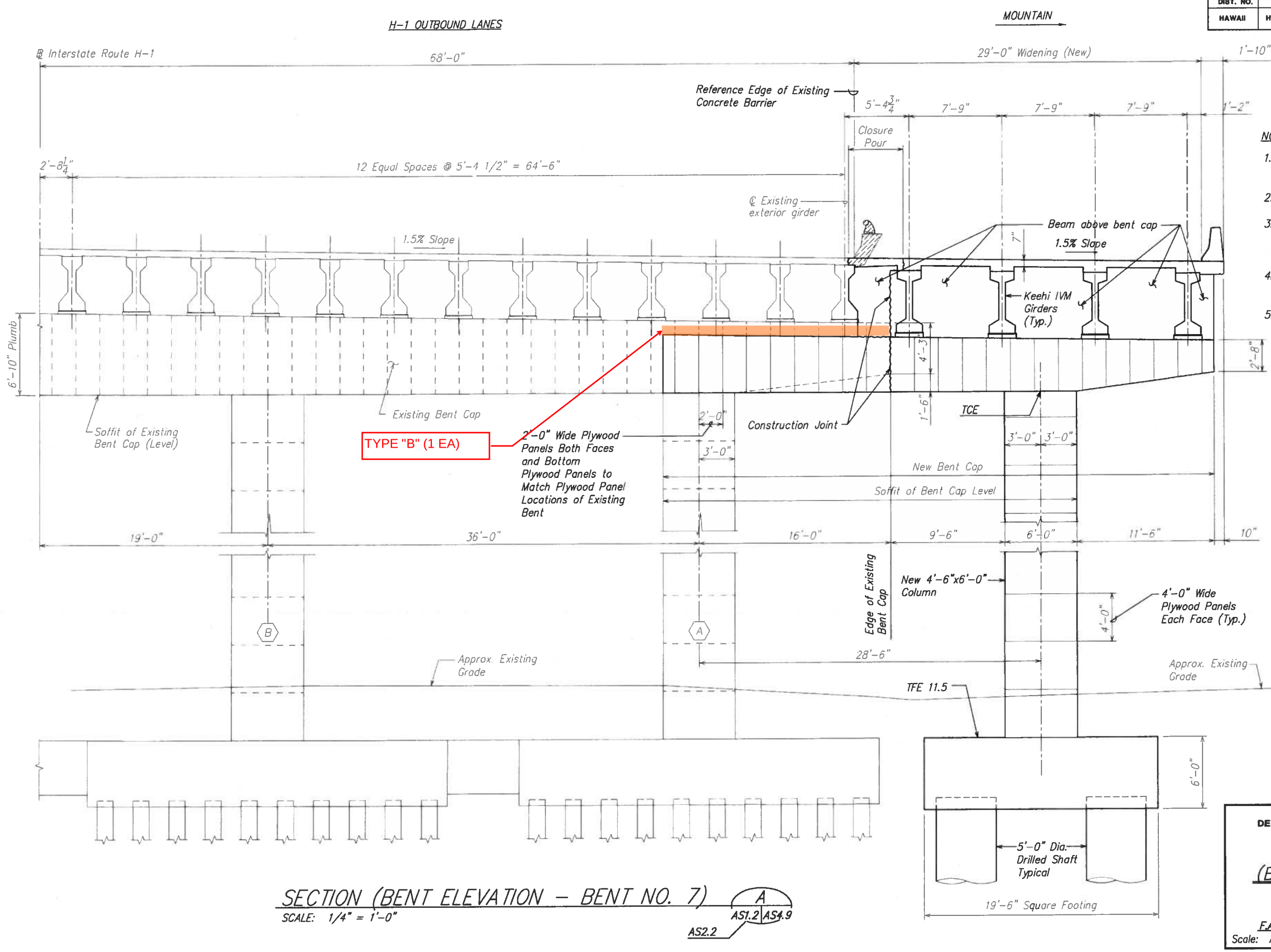
ORIGINAL PLAN | SURVEY PLOTTED BY | DRAWN BY | TRACED BY | DESIGNED BY | QUANTITIES BY | CHECKED BY | DATE | NOTE BOOK | No.

\\Cad1\sd\2001\ 0066 - WAIMALU VIADUCT\06-20-03 AS ADD3\W-AS0101.dwg, AS1.2 6/18/2003 1:23:10 AM, KSFinc pc3

W-AS0101.DWG
1 = 1

INSTALLATION OF NEW POLYCARBONATE PLASTIC BIRD SPIKES

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003		



NOTES:

1. Dimensions are measured along exterior faces of bent
2. See Viaduct General Note 8.(Q).
3. Lighting details not shown for clarity. See Civil and Electrical drawings.
4. See normal section for additional details, see sheets AS4.1 and AS4.2.
5. For Top of Column Elevation (TCE) see sheet no. AS10.1.

SECTION (BENT ELEVATION – BENT NO. 7)

SCALE: 1/4" = 1'-0"

A
AS1.2 AS4.9
AS2.2

ORIGINAL PLAN | SURVEY PLOTTED BY | DRAWN BY | TRACED BY | DESIGNED BY | QUANTITIES BY | CHECKED BY | DATE | No. | NOTE BOOK

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SECTION
(BENT NO. 7 ELEVATION)

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: As Noted Date: Mar. 31, 2003

SHEET No. AS4.9 OF 150 SHEETS

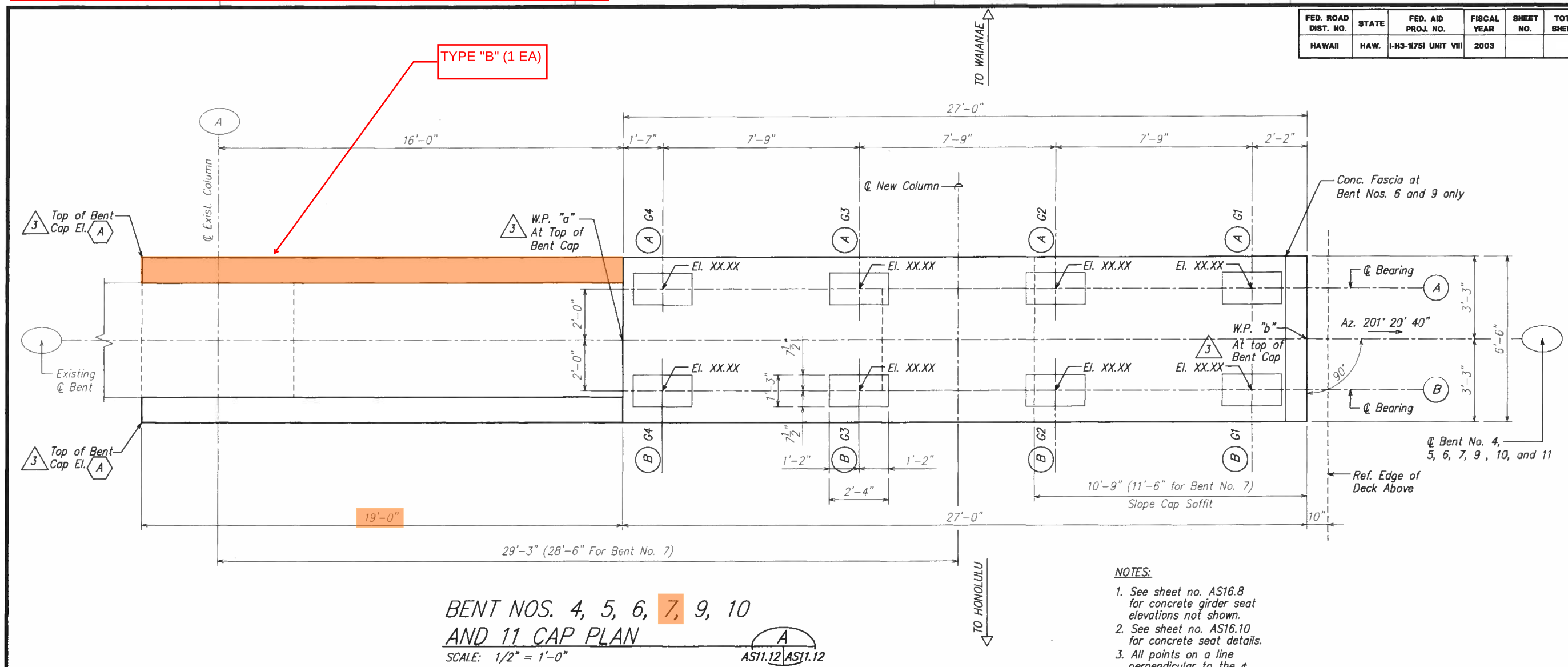
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INSTALLATION OF NEW POLYCARBONATE PLASTIC BIRD SPIKES

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003		

TYPE "B" (1 EA)



BENT NOS. 4, 5, 6, 7, 9, 10 AND 11 CAP PLAN

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

A — AS11.12 | AS11.12

Bent Nos.	(A)	W.P. "a" Elevation*	W.P. "b" Elevation*
4	41.98	41.69	41.28
5	45.65	45.36	44.95
7 6	49.55	49.26	48.85
7	53.81	53.52	53.11
7 9	61.54	61.31	60.98
10	65.86	65.58	65.18
7 11	69.87	69.59	69.19

NOTES:

1. See sheet no. AS16.8 for concrete girder seat elevations not shown.
2. See sheet no. AS16.10 for concrete seat details.
3. All points on a line perpendicular to the ℄ of the bent cap, shall be at the same elevation.
4. For bent nos. 6 and 9 creep and hinge blocks not shown for clarity (See sht. nos. AS14.6, AS14.7, and AS16.9)

DATE	REVISION
10/31/03	7 Revise Top of Bent Cap Elevation.
6/20/03	3 Clarify Bent Notation

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BENT NOS. 4, 5, 6, 7, 9, 10 AND 11 CAP PLAN

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: As Noted Date: Mar. 31, 2003

SHEET No. AS11.12 OF 150 SHEETS

ORIGINAL PLAN | SURVEY PLOTTED BY | DRAWN BY | TRACED BY | DESIGNED BY | QUANTITIES BY | CHECKED BY | DATE | NOTE BOOK | No.

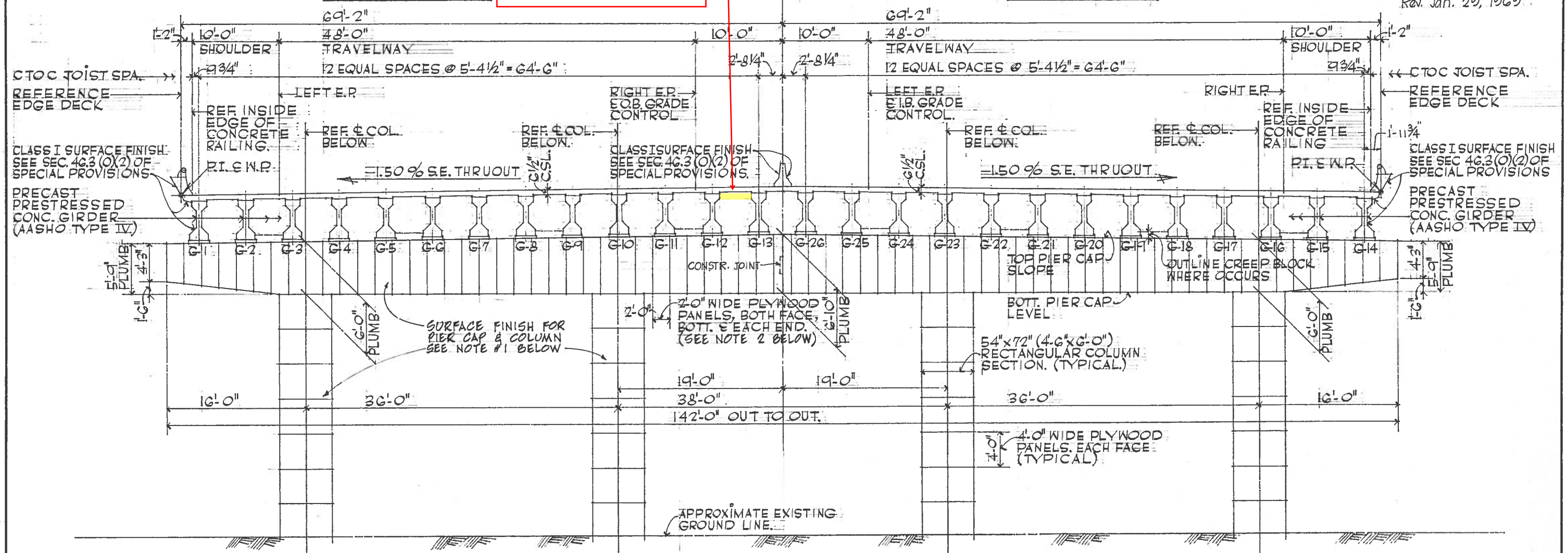
W:\AS11\2\DWG
1 = 1

INSTALLATION OF NEW POLYCARBONATE PLASTIC BIRD SPIKES

TYPE "C" (1 EA)
(Length = 4 Feet, Width = 1 Foot)

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	FHI-1(6)3) 11 I-HI-1(16)11	1968		

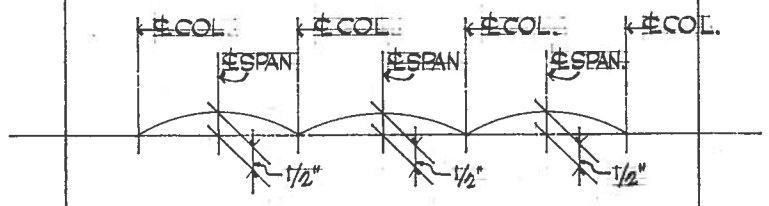
Rev. Jan. 29, 1969



NOTE:

1.- SURFACES OF PIER CAPS & COLS. SHALL RECEIVE AN "ORDINARY SURFACE FINISH" (SEE SEC. 46.3(0)(1) OF SPECIAL PROVISIONS) WITH THE FOLLOWING EXCEPTIONS.
   (a.) AFTER HOLES OR DEPRESSIONS ARE CLEANED AND FILLED WITH MORTAR THE SURFACE SHALL REMAIN UNFINISHED (NO RUBBING WITH CARBORUNDUM STONE).
   (b.) ALL FINS AT FORM JOINTS SHALL REMAIN UNFINISHED.

2.- AT THE OPTION OF THE CONTRACTOR, OTHER MATERIALS OR METHODS MAY BE SUBSTITUTED TO ACHIEVE THE 2'-0" WIDE PLYWOOD PANEL EFFECT SUBJECT TO THE ENGINEER'S APPROVAL.



PIER CAP CAMBER DIAGRAM (SOFFIT ONLY)

NORMAL SECTION THRU VIADUCT

SCALE : 3/16" = 1'-0"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

WAIMALU VIADUCT
TYPICAL SECTION

INTERSTATE ROUTE H-1
F.A.I. PROJ. NO. I-HI-1(63):11
SCALE: AS NOTED.

SHEET No. 9 OF 59 SHEETS

ORIGINAL PLAN | SURVEY PLOTTED BY | DRAWN BY | TRACED BY | DESIGNED BY | QUANTITIES BY | CHECKED BY | DATE | NOTE BOOK | No.

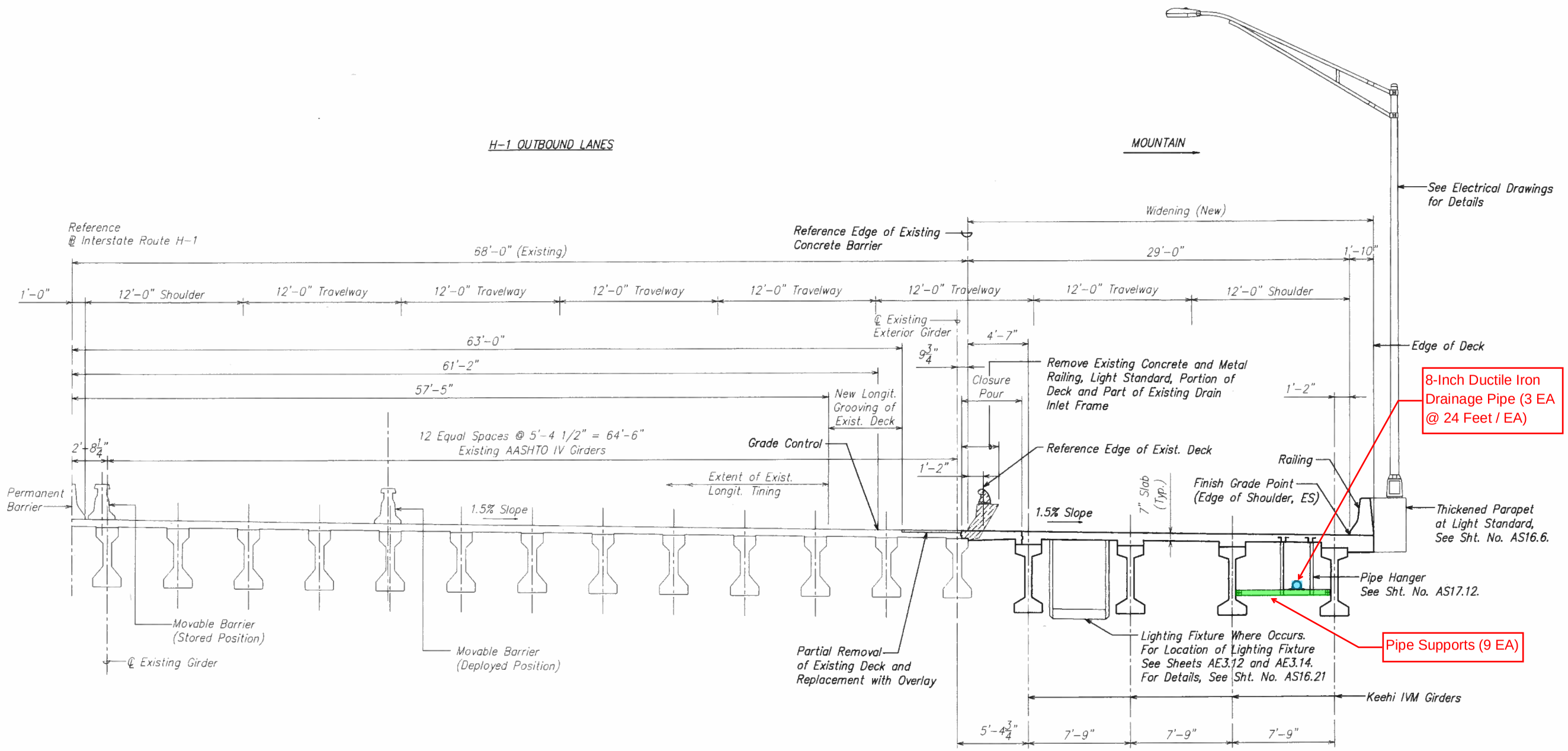
PRINTED ON NO. 1000H CLEARPRINT

INSTALLATION OF NEW POLYCARBONATE PLASTIC BIRD SPIKES



INSTALLATION OF NEW POLYCARBONATE PLASTIC BIRD SPIKES

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003		



NORMAL DECK SECTION AT FRAMES "B", "C", AND "D"

SCALE: 1/4" = 1'-0"

A AS4.2 | AS4.2

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY	
NOTE BOOK	TRACED BY	
	DESIGNED BY	
No.	QUANTITIES BY	
	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

NORMAL DECK SECTION AT FRAMES "B", "C", AND "D"

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: As Noted Date: Mar. 31, 2003

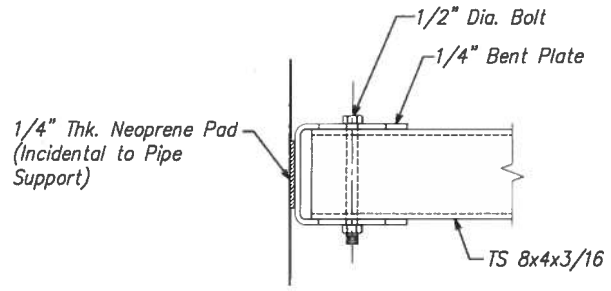
SHEET No. AS4.2 OF 150 SHEETS

\\Cad1\sd\2001\10066-WAIMALU VAD_ACT\04-07-03 AS\WV-AS0401 cwg, AS4.2, 4/3/2003 4:55:45 PM, kSFinc.pc3

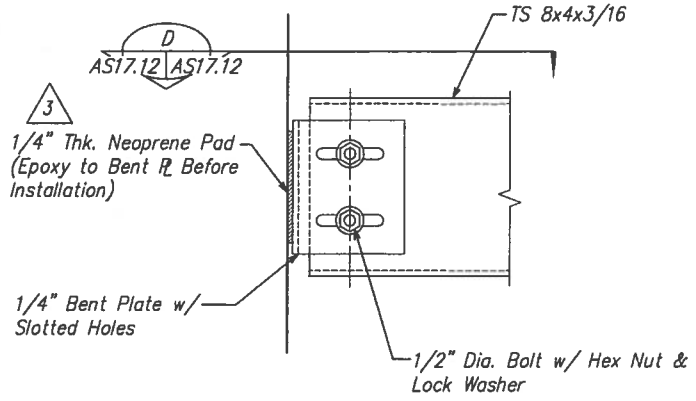
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INSTALLATION OF NEW POLYCARBONATE PLASTIC BIRD SPIKES

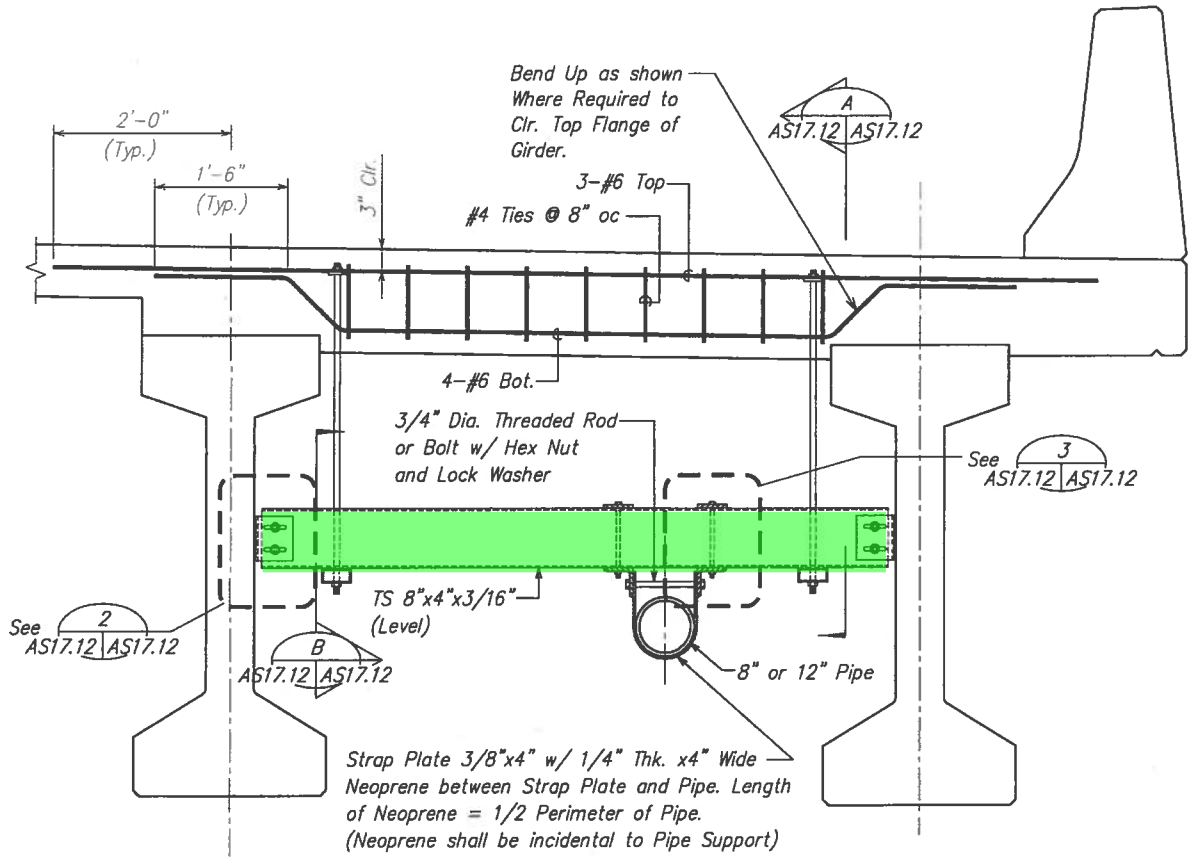
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003		



SECTION D
SCALE: 3" = 1'-0" AS17.12|AS17.12

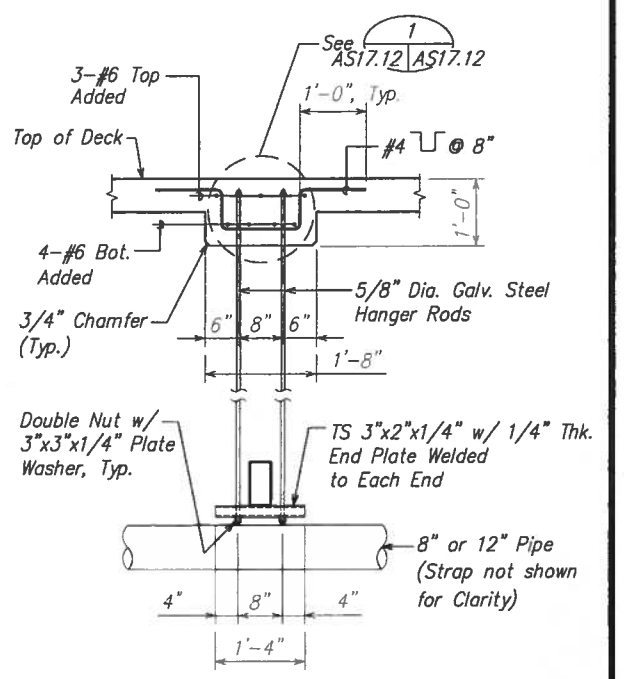


DETAIL 2
SCALE: 3" = 1'-0" AS17.12|AS17.12

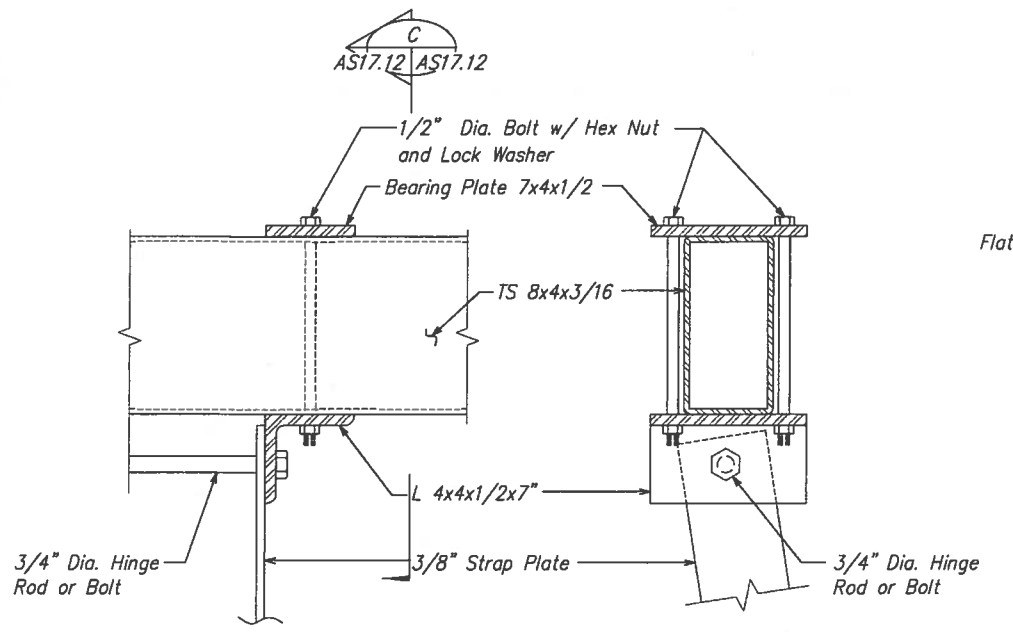


Notes:
1. Pipe supports shall be spaced @ 8'-0" oc max. verify location with pipe manufacturer.
2. Support assembly shall be hot dip galvanized after fabrication.

PIPE SUPPORT DETAIL
SCALE: 1" = 1'-0"

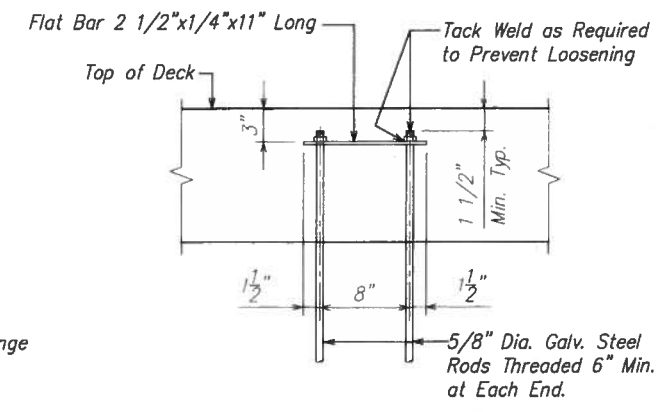


SECTION A
SCALE: 3/4" = 1'-0" AS17.12|AS17.12

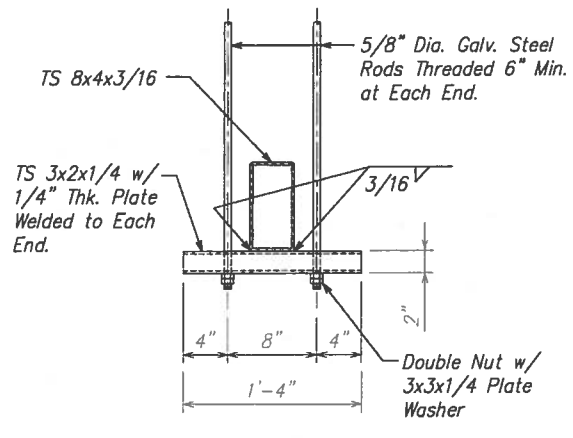


DETAIL 3
SCALE: 3" = 1'-0" AS17.12|AS17.12

SECTION C
SCALE: 3" = 1'-0" AS17.12|AS17.12



DETAIL 1
SCALE: 1 1/2" = 1'-0" AS17.12|AS17.12



SECTION B
SCALE: 1 1/2" = 1'-0" AS17.12|AS17.12

DATE	REVISION
6/20/03	3 Clarification

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PIPE SUPPORT DETAIL

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: As Noted Date: Mar. 31, 2003

SHEET No. AS17.12 OF 150 SHEETS

ORIGINAL PLAN | No. | NOTE BOOK | DESIGNED BY | QUANTITIES BY | CHECKED BY | DRAWN BY | TRACED BY | DATE

\\Cont\Vol\200\U0066-WAIALU VIADUCT\06-20-03 AS ADD3\WV-AS1712.dwg, AS17.12, 6/18/2003 - 13:55 PM, KSFinc.pc3

WV-AS1712.DWG
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INSTALLATION OF NEW POLYCARBONATE PLASTIC BIRD SPIKES



MAINTENANCE OF EXISTING POLYCARBONATE PLASTIC BIRD SPIKES

MAINTENANCE OF EXISTING POLYCARBONATE PLASTIC BIRD SPIKES

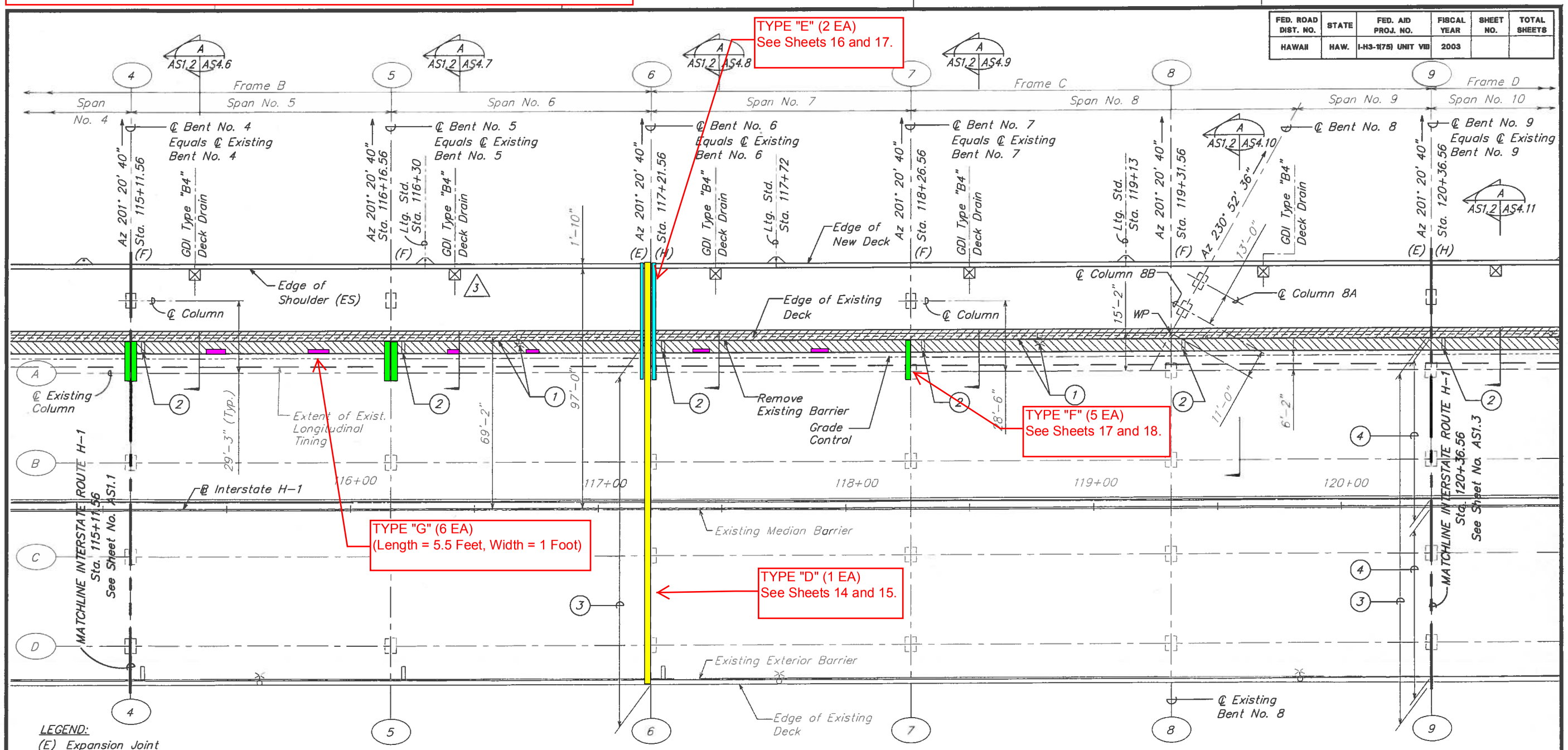
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003		

TYPE "E" (2 EA)
See Sheets 16 and 17.

TYPE "F" (5 EA)
See Sheets 17 and 18.

TYPE "G" (6 EA)
(Length = 5.5 Feet, Width = 1 Foot)

TYPE "D" (1 EA)
See Sheets 14 and 15.



LEGEND:

(E) Expansion Joint
(F) Fixed Joint
(H) Hinged Joint

(1) Remove Existing Railing and Deck
Remove Existing Light Standards
Refer to Sheet Nos. AS18.1 to AS18.3
Stage 11 of Viaduct Construction Sequence

(2) Plug Existing Deck Storm Drain,
See Detail on Sheet No. AS16.12 and AS16.13
Refer to Sheet Nos. AS18.1 to AS18.3, Stage 20 of Viaduct Construction Sequence

(3) Remove Existing Compression Seal and Replace with New Seal
See Sheet Nos. AS17.5 to AS17.11

(4) Install structural steel plates.
See sht. nos. AS17.5 to AS17.11.

Drain Inlet
Closure Pour
Partial Removal of Existing Deck and Replace with Overlay.

REFERENCE DRAWINGS:

1. Light Standard Details, See Sheet No. AS16.6.
2. New Drain Inlet Details, See Sheet Nos. AS16.14 to AS16.20.
3. Approach Slab Details, See Sheet Nos. AS7.9 to AS7.11.
4. Closure Slab Details, See Sheet No. AS15.8 and AS15.9.
5. Foundation Plan, See Sheet Nos. AS2.1 to AS2.3.
6. Deck Drain Stations, See Sheet No. AC7.9 and AC7.10.
7. See Sheet Nos. AS2.1 to AS2.3 for New and Existing ROW.

PARTIAL LAYOUT PLAN – BENT NO. 4 TO BENT NO. 9 (A AS1.2 AS1.2)
SCALE: 1" = 20'-0"

DATE	REVISION
6/20/03	3 Correct Drain Location

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PARTIAL LAYOUT PLAN
BENT NO. 4 TO BENT NO. 9

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: As Noted Date: Mar. 31, 2003

SHEET No. AS1.2 OF 150 SHEETS

ORIGINAL PLAN | DRAWN BY | TRACED BY | DESIGNED BY | QUANTITIES BY | CHECKED BY | DATE | No. | NOTE BOOK | SHOWN PLOTTED BY

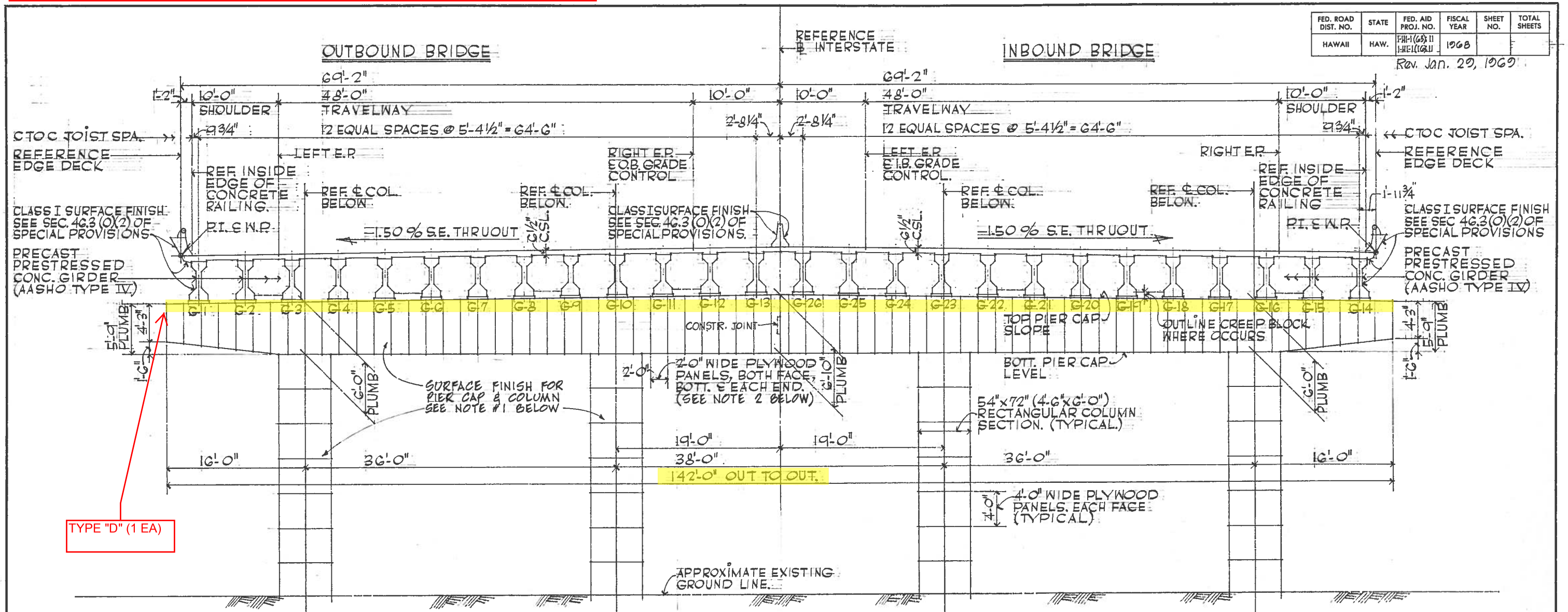
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W-AS0101.DWG
1 = 1

MAINTENANCE OF EXISTING POLYCARBONATE PLASTIC BIRD SPIKES

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	FHI-1(6&3) 11 I-HI-1(10&11)	1968		

Rev. Jan. 29, 1969

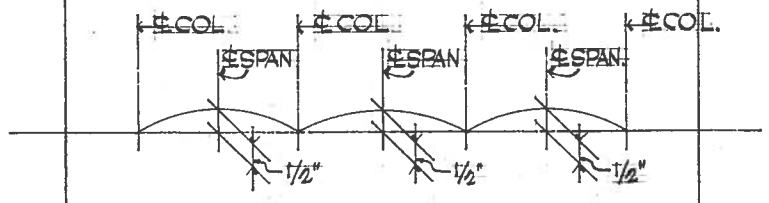


TYPE "D" (1 EA)

NOTE:

1.- SURFACES OF PIER CAPS & COLS. SHALL RECEIVE AN "ORDINARY SURFACE FINISH" (SEE SEC. 46.3(0)(1) OF SPECIAL PROVISIONS) WITH THE FOLLOWING EXCEPTIONS.
   (a.) AFTER HOLES OR DEPRESSIONS ARE CLEANED AND FILLED WITH MORTAR THE SURFACE SHALL REMAIN UNFINISHED (NO RUBBING WITH CARBORUNDUM STONE).
   (b.) ALL FINS AT FORM JOINTS SHALL REMAIN UNFINISHED.

2.- AT THE OPTION OF THE CONTRACTOR, OTHER MATERIALS OR METHODS MAY BE SUBSTITUTED TO ACHIEVE THE 2'-0" WIDE PLYWOOD PANEL EFFECT SUBJECT TO THE ENGINEER'S APPROVAL.



PIER CAP CAMBER DIAGRAM (SOFFIT ONLY)

NORMAL SECTION THRU VIADUCT

SCALE : 3/16" = 1'-0"

ORIGINAL PLAN — SURVEY PLOTTED BY ... DRAWN BY ... TRACED BY ... DESIGNED BY ... NOTE BOOK ... QUANTITIES BY ... CHECKED BY ... DATE ... No. ...

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

WAIMALU VIADUCT
TYPICAL SECTION

INTERSTATE ROUTE H-1
F.A.I. PROJ. NO. I-HI-1(63):11
SCALE: AS NOTED.

SHEET No. 9 OF 59 SHEETS

PRINTED ON NO. 1000H CLEARPRINT

MAINTENANCE OF EXISTING POLYCARBONATE PLASTIC BIRD SPIKES

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(G3)11 I-HI-1(LG)11	1968		

PIER LINE NO'S 1 2 4 5 7 8 10 11
TO BARBER'S PT. AT FIXED END
TO HONOLULU AT FIXED END

PLAN- PIER LINE NO'S 1 2 4 5 7 8 10 11
I.B. & O.B. BRIDGES
SCALE: 1/4"= 1'-0"

PIER LINE NO'S 3 6 9
TO BARBER'S PT. AT EXPANSION END
TO HONOLULU AT HINGED END

PLAN- PIER LINE NO'S 3 6 9
I.B. & O.B. BRIDGES
SCALE: 1/4"= 1'-0"

TYPICAL CONCRETE SEAT
ELASTOMERIC BEARING
PAD SIZE EACH SEAT

WIDTH	DEPTH	LENGTH	GIRDER TYPE
9"	1" (2-½" LAM.)	26"	PG IV B
10"	1" (2-½" LAM.)	26"	PG IV A & PG IV C

NOTE:
FOR TYPICAL CONCRETE SEAT DETAILS SEE SHEET #18
ELASTOMERIC BEARING PADS AT GIRDER CONCRETE SEATS SEE SPECIAL PROVISIONS.
REFER TO SHEET #23 FOR GIRDER LOCATIONS.

TYPE "D" (1 EA)
NOTE:
Areas of installation for polycarbonate plastic bird spikes are not all at same elevation.

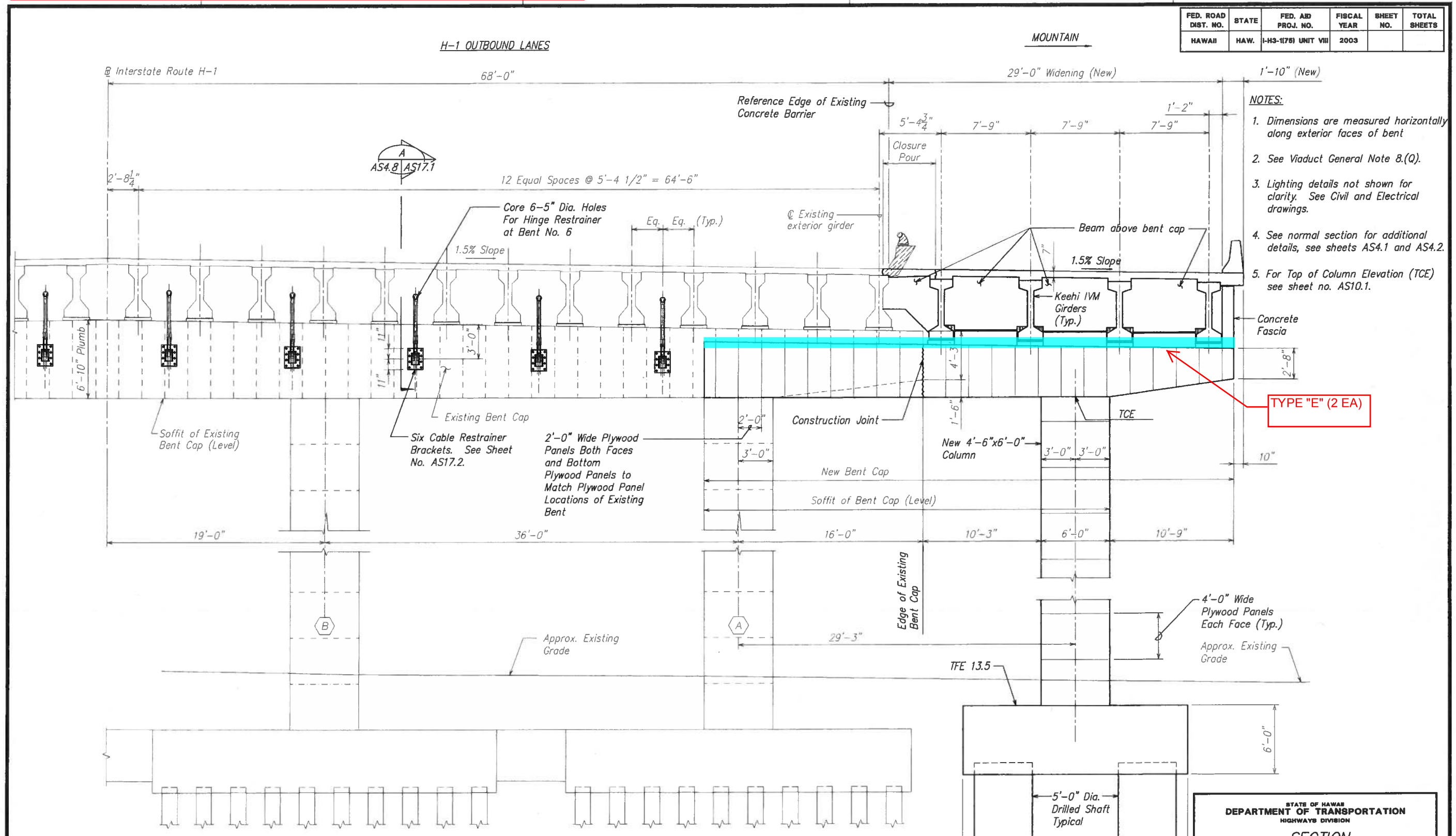
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
WAIMALU VIADUCT
PLAN-TOP PIER CAPS
INTERSTATE ROUTE H-1
F.A.I. PROJ. NO I-HI-1 (G3) 11
SCALE: AS NOTED
SHEET No. 17 OF 59 SHEETS

ORIGINAL PLAN | SURVEY PLOTTED BY | DRAWN BY | TRACED BY | DESIGNED BY | QUANTITIES BY | CHECKED BY | DATE | NOTE BOOK | No.

PRINTED ON NO. 1000H CLEARPRINT

MAINTENANCE OF EXISTING POLYCARBONATE PLASTIC BIRD SPIKES

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003		



NOTES:

1. Dimensions are measured horizontally along exterior faces of bent
2. See Viaduct General Note 8.(Q).
3. Lighting details not shown for clarity. See Civil and Electrical drawings.
4. See normal section for additional details, see sheets AS4.1 and AS4.2.
5. For Top of Column Elevation (TCE) see sheet no. AS10.1.

SECTION (BENT ELEVATION - BENT NO. 6) A
SCALE: 1/4" = 1'-0"
AS1.2 AS4.8
AS2.2

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY	
	TRACED BY	
NOT BOOK	DESIGNED BY	
	QUANTITIES BY	
No.	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SECTION
(BENT NO. 6 ELEVATION)

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: As Noted Date: Mar. 31, 2003

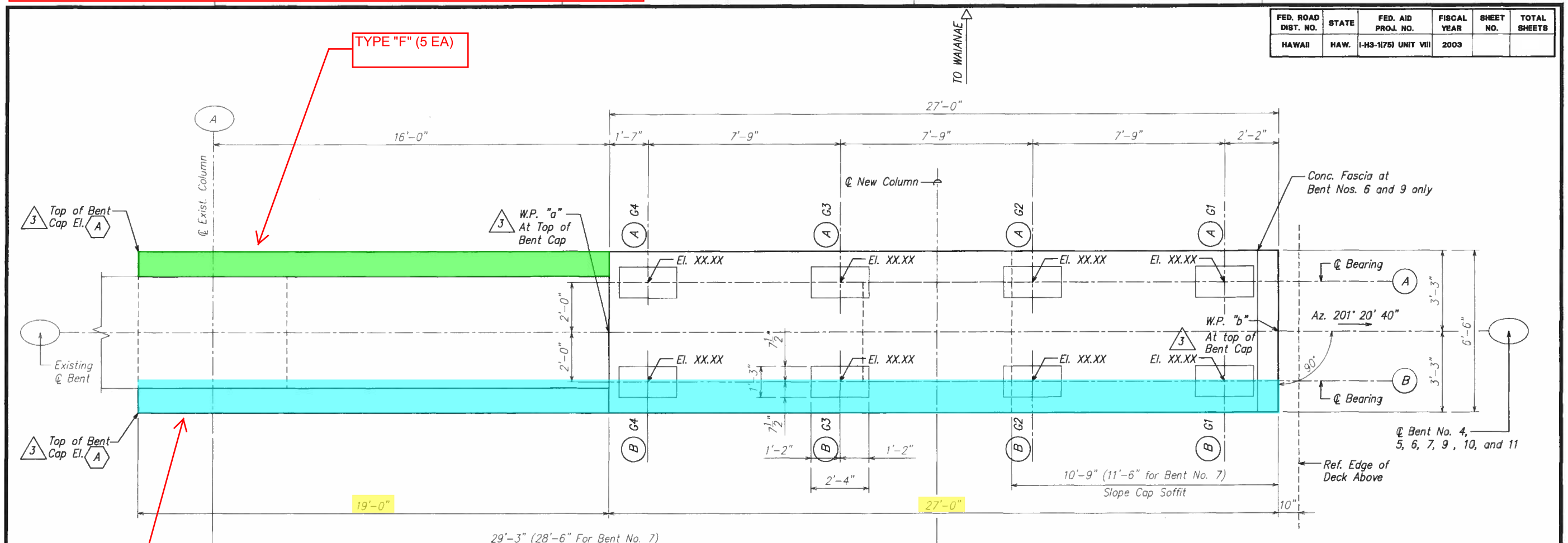
SHEET No. AS4.8 OF 150 SHEETS

9H-AS0408.DWG
1 = 1

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MAINTENANCE OF EXISTING POLYCARBONATE PLASTIC BIRD SPIKES

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003		



BENT NOS. 4, 5, 6, 7, 9, 10 AND 11 CAP PLAN

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

A
AS11.12 | AS11.12

Bent Nos.	A	W.P. "a" Elevation*	W.P. "b" Elevation*
4	41.98	41.69	41.28
5	45.65	45.36	44.95
7 6	49.55	49.26	48.85
7	53.81	53.52	53.11
7 9	61.54	61.31	60.98
10	65.86	65.58	65.18
7 11	69.87	69.59	69.19

NOTES:

1. See sheet no. AS16.8 for concrete girder seat elevations not shown.
2. See sheet no. AS16.10 for concrete seat details.
3. All points on a line perpendicular to the ℄ of the bent cap, shall be at the same elevation.
4. For bent nos. 6 and 9 creep and hinge blocks not shown for clarity (See sht. nos. AS14.6, AS14.7, and AS16.9)

DATE	REVISION
10/31/03	7 Revise Top of Bent Cap Elevation.
6/20/03	3 Clarify Bent Notation

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BENT NOS. 4, 5, 6, 7, 9, 10 AND 11 CAP PLAN

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: As Noted Date: Mar. 31, 2003

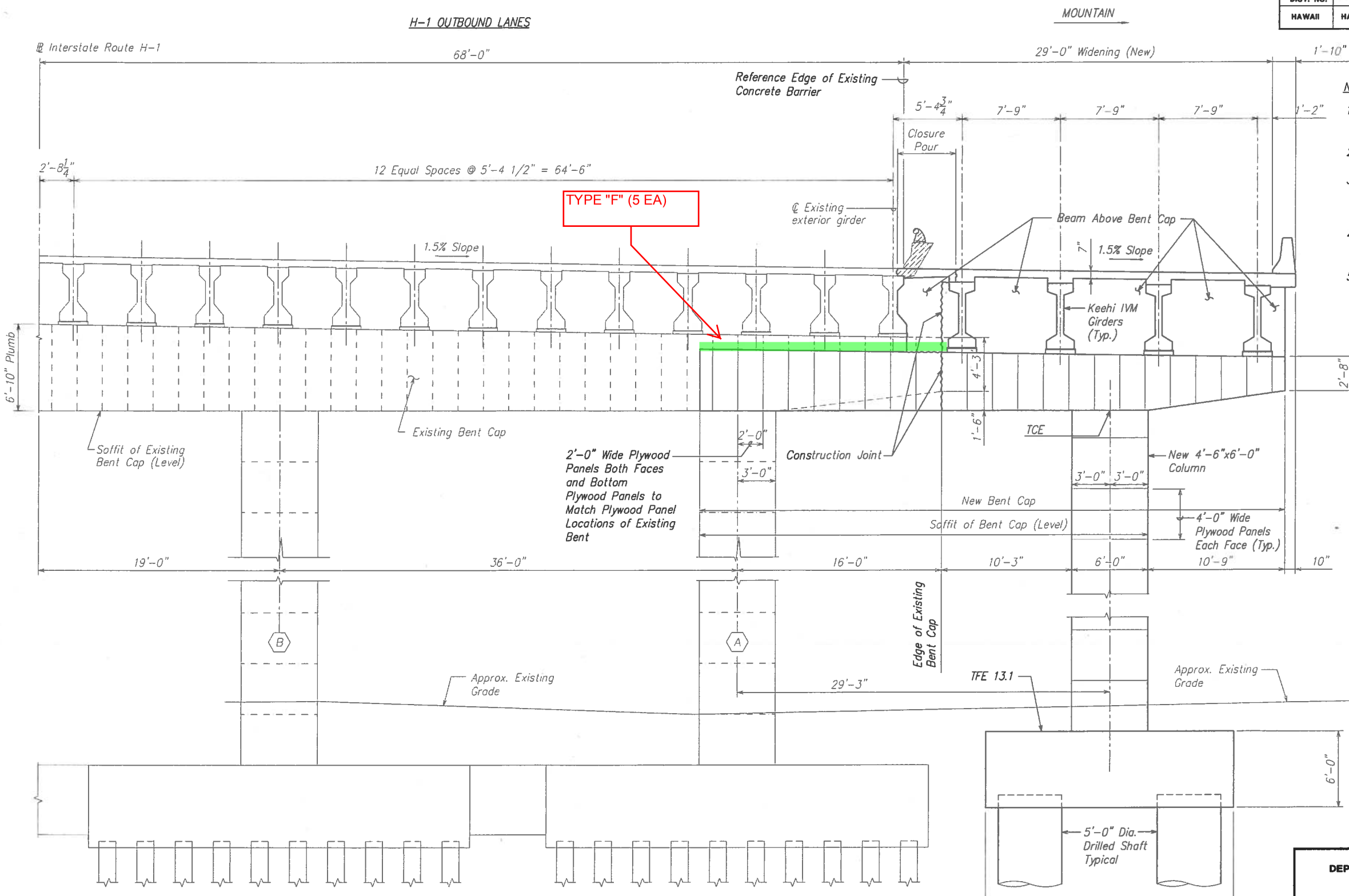
SHEET No. AS11.12 OF 150 SHEETS

ORIGINAL PLAN | SURVEY PLOTTED BY | DRAWN BY | TRACED BY | DESIGNED BY | QUANTITIES BY | CHECKED BY | DATE
NOTE BOOK | No.

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MAINTENANCE OF EXISTING POLYCARBONATE PLASTIC BIRD SPIKES

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003		



NOTES:

1. Dimensions are measured along exterior faces of bent
2. See Viaduct General Note 8.(Q).
3. Lighting details not shown for clarity. See Civil and Electrical drawings.
4. See normal section for additional details, see sheets AS4.1 and AS4.2.
5. For Top of Column Elevation (TCE) see sheet no. AS10.1.

SECTION (BENT ELEVATION - BENT NO. 5)

SCALE: 1/4" = 1'-0"

A
AS1.2 | AS4.7
AS2.2

ORIGINAL PLAN	DATE
	SURVEY PLOTTED BY
	DRAWN BY
	TRACED BY
	DESIGNED BY
	QUANTITIES BY
	CHECKED BY
NOTE BOOK	
No.	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SECTION
(BENT NO. 5 ELEVATION)

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: As Noted Date: Mar. 31, 2003

SHEET No. AS4.7 OF 150 SHEETS

W:\ AS0407.DWG
1 = 1

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