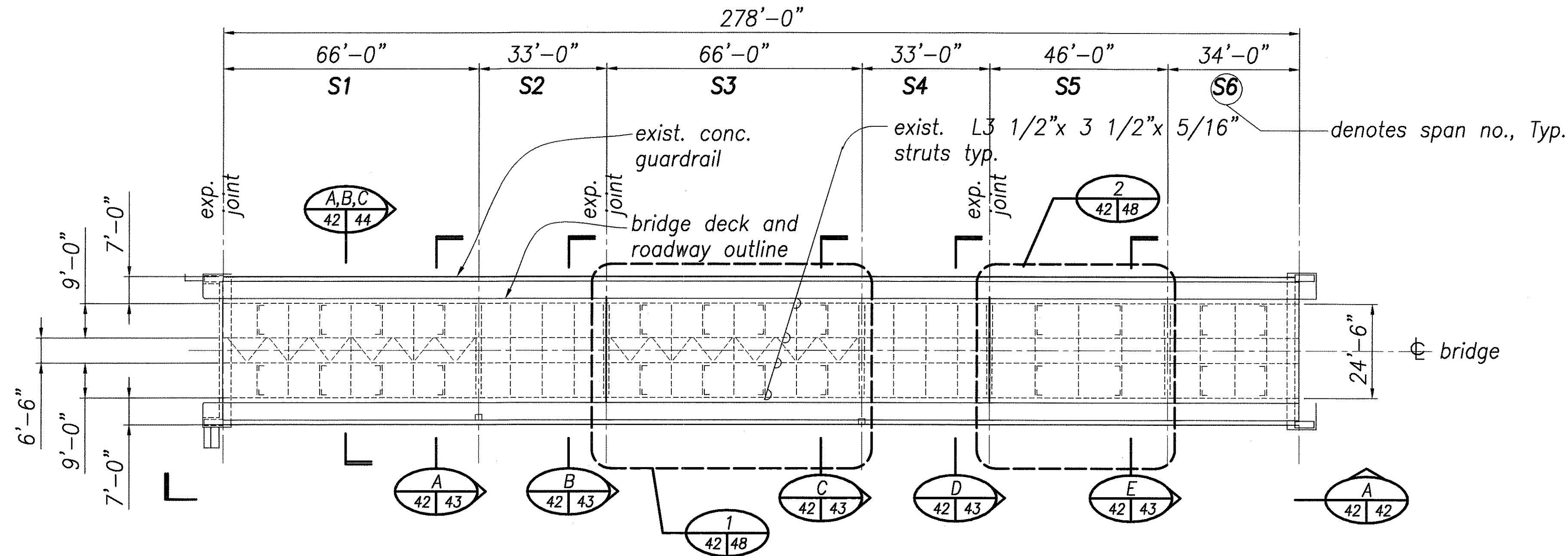


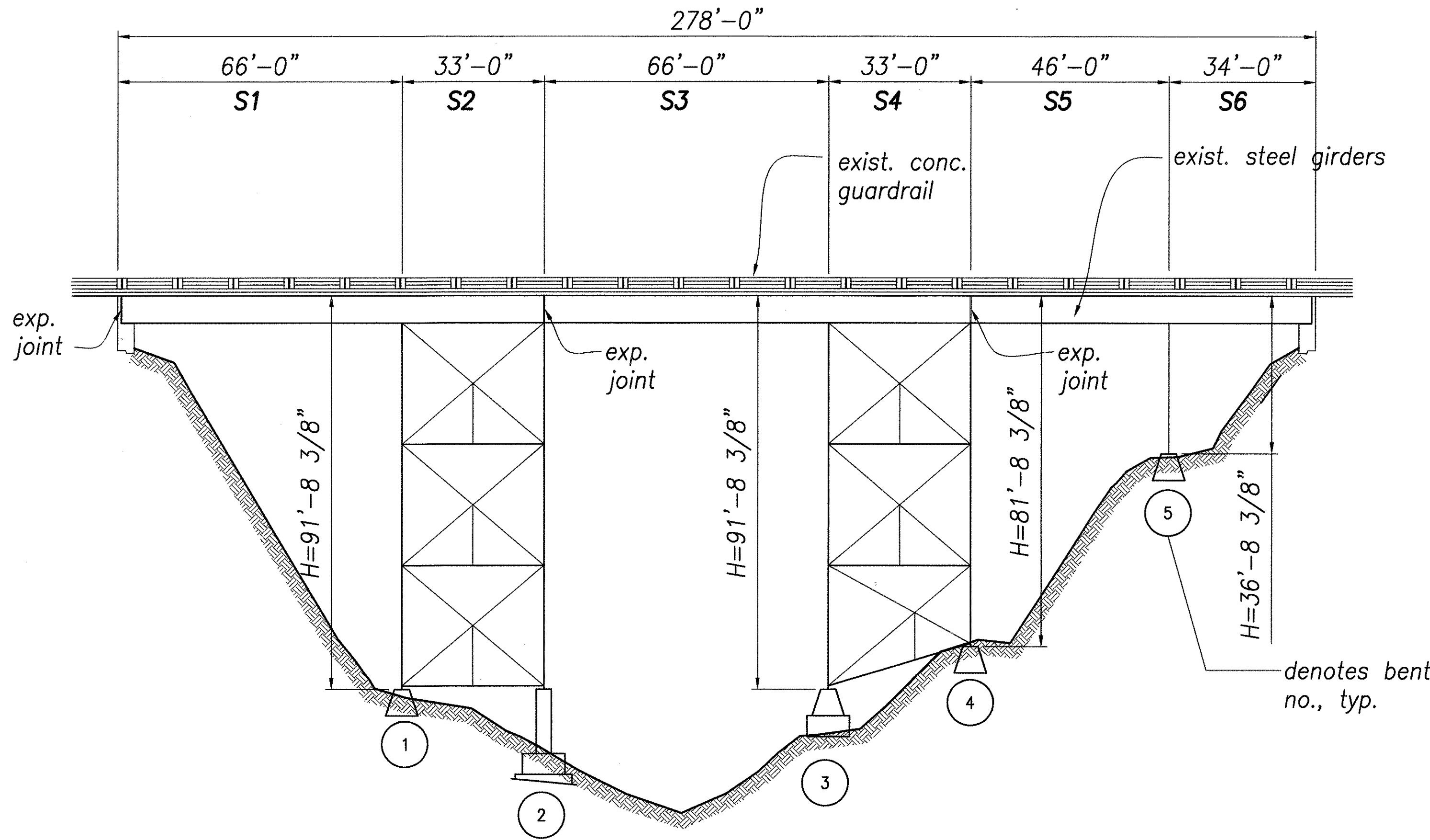
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-H-09-99M	2005	42	81

Reference Drawing

- 4 General notes
- 49 Hanging Access Platform System
- 56 Portable Access Platform System
- 59 Trestle Access Platform System
- 74 LifeLine System
- 78 Access Plank System

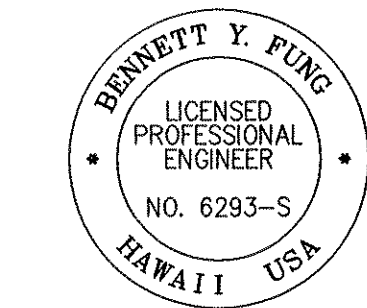


PLAN - UMAUMA BRIDGE
Scale: 3/64" = 1'-0"



ELEVATION
Scale: 3/64" = 1'-0"

SURVEY PLOTTED BY	DATE
DESIGNED BY	
NOTED BY	
CHECKED BY	
NO.	



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Bennett Y. Fung
SIGNATURE EXP. DATE OF THE LICENSE 4/30/06

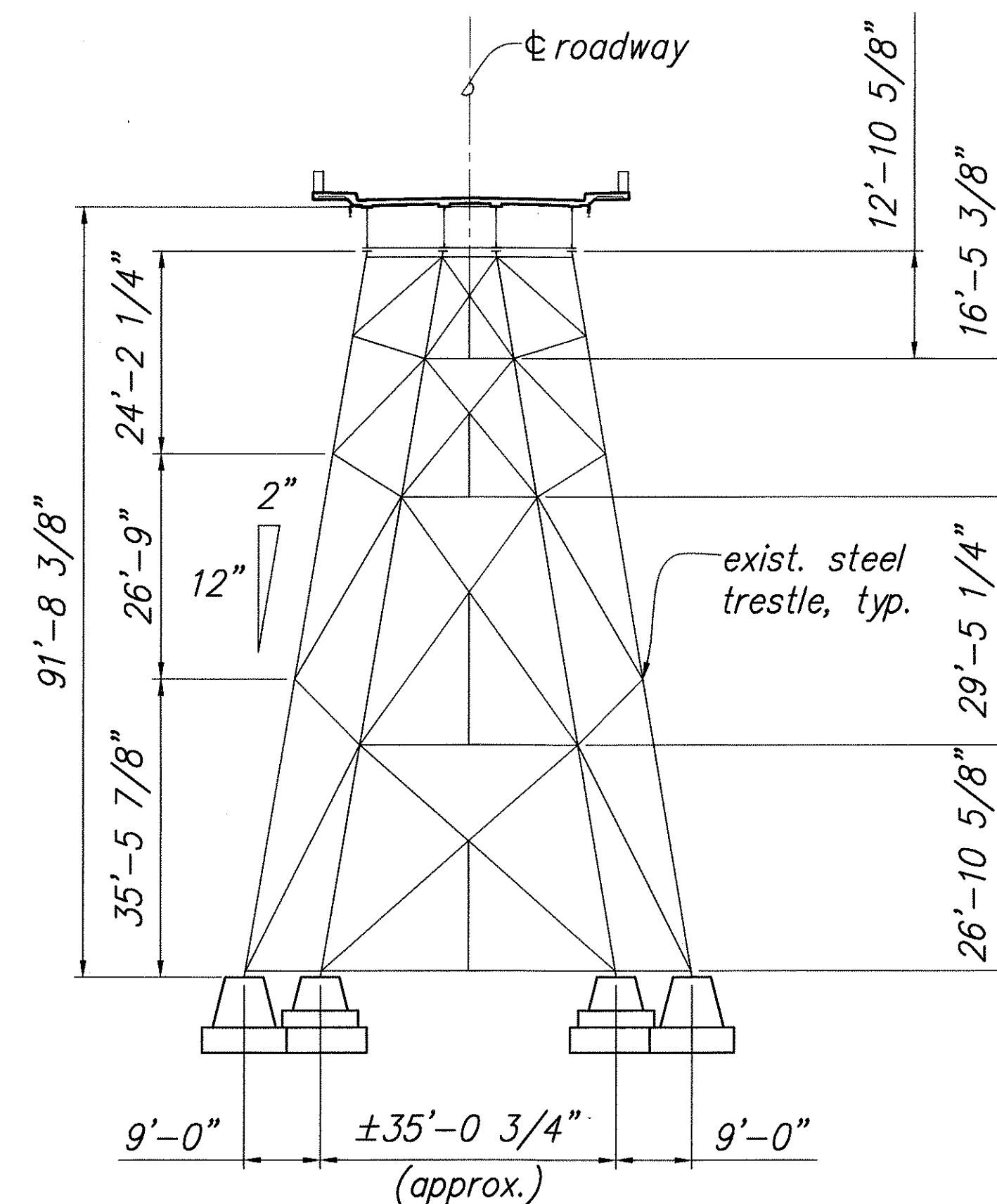
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN AND ELEVATION

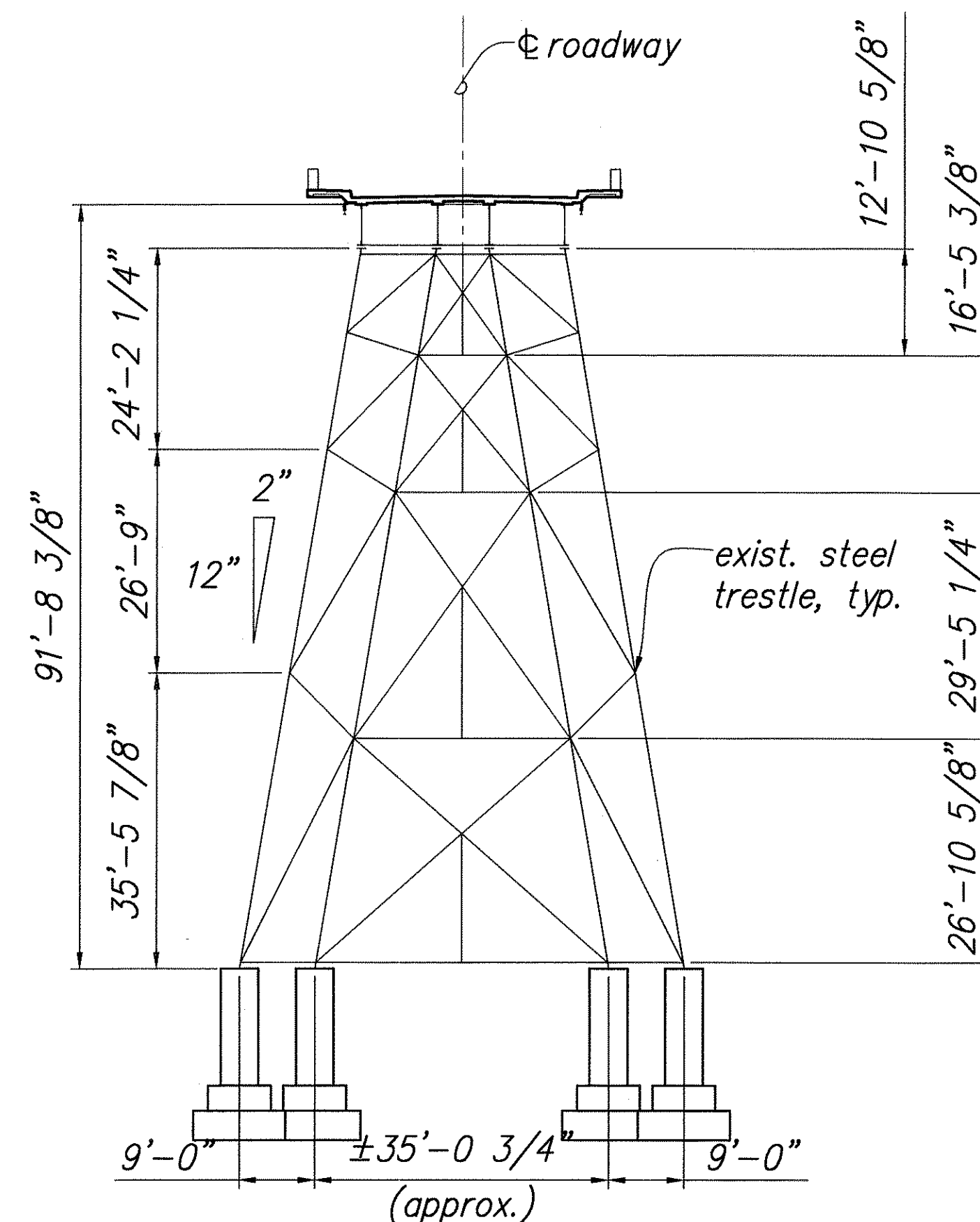
UMAUMA BRIDGE
MAINTENANCE PLATFORM ON VARIOUS BRIDGES
PROJECT NO. HWY-H-09-99M
Scale: 3/64" = 1'-0" Date: Apr. 2005

Sheet No. 42 Of 81 Sheets

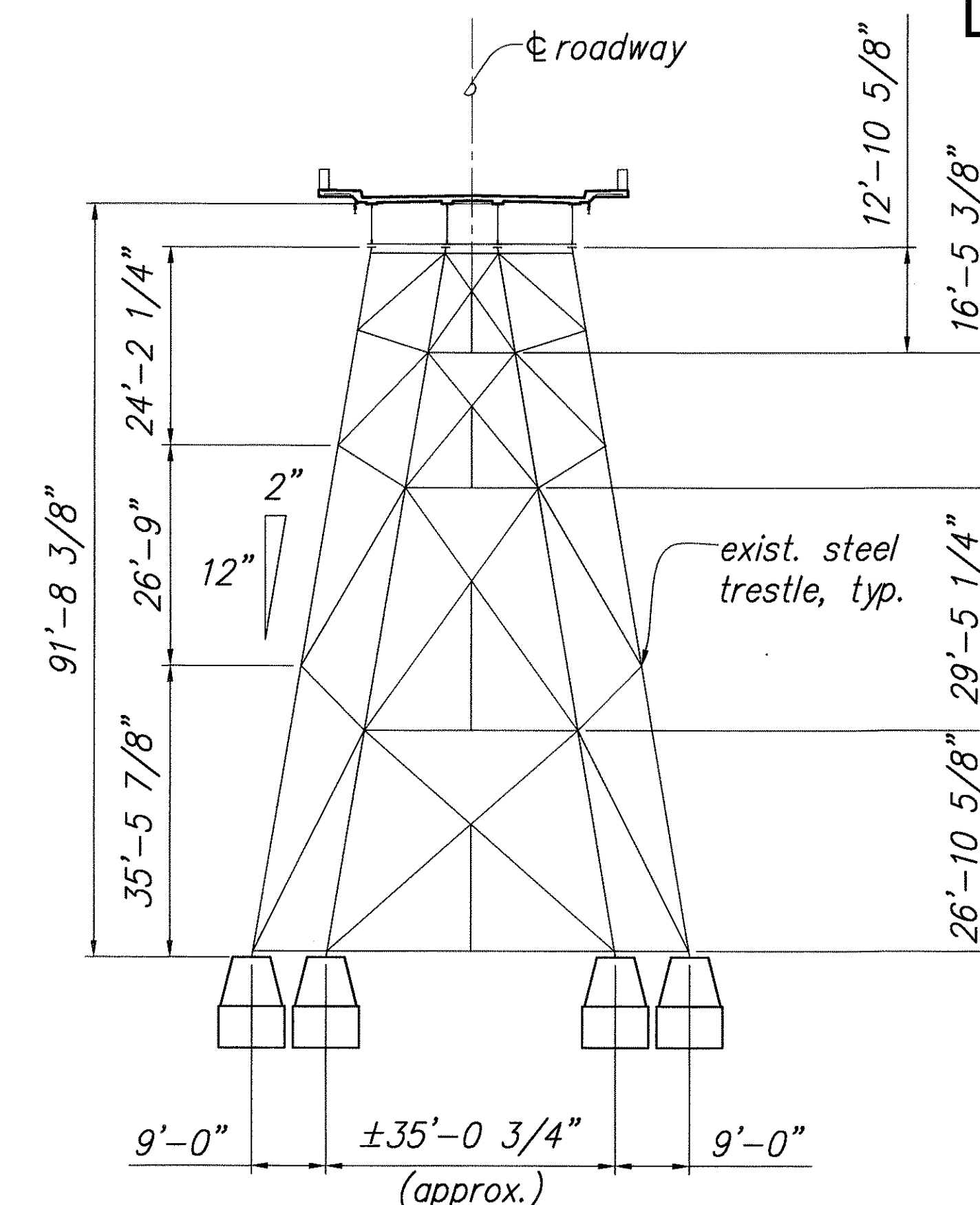
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-H-09-99M	2005	43	81



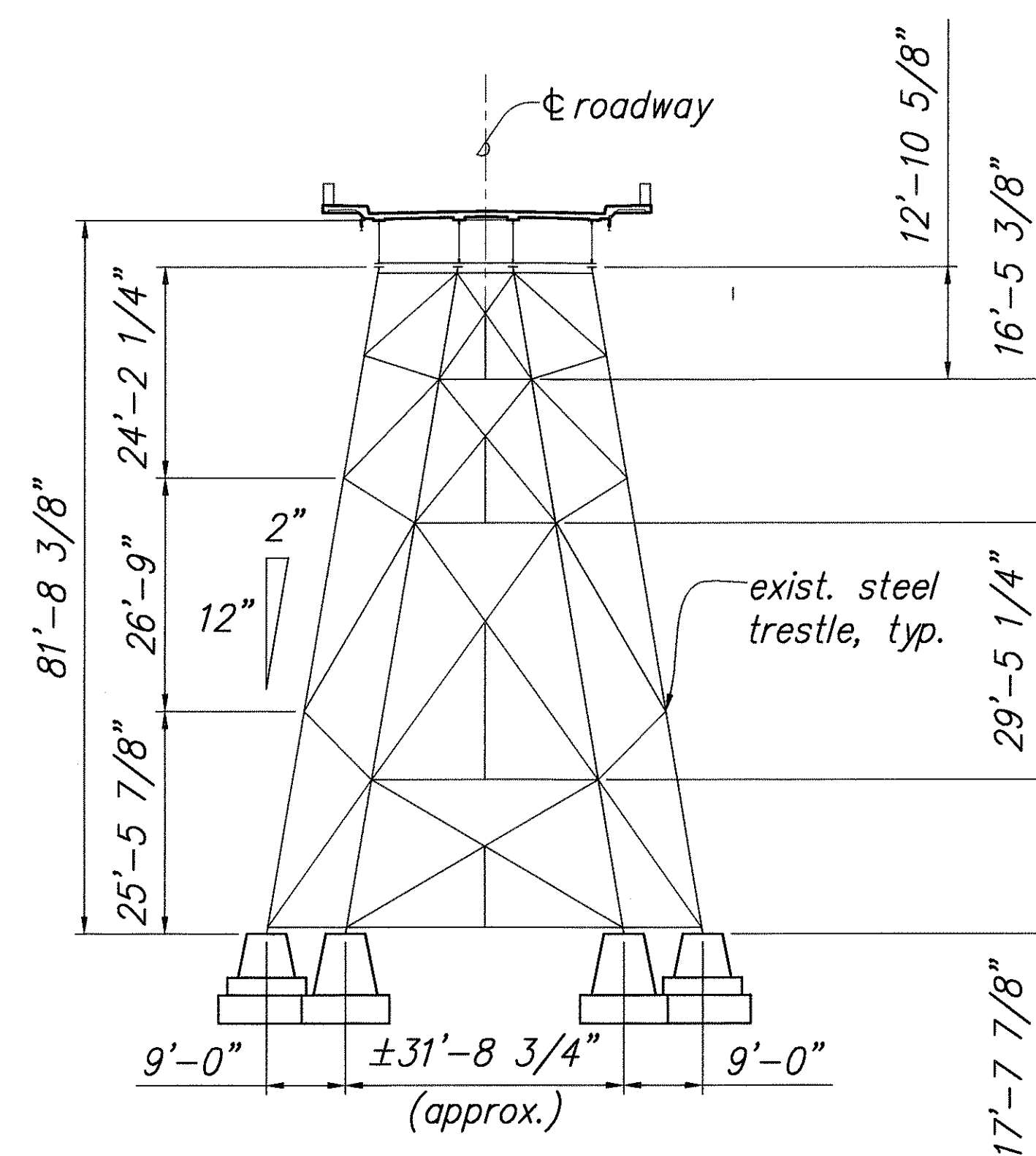
SECTION AT BENT No. 1 A
42 | 43
Scale: $1/16" = 1'-0"$



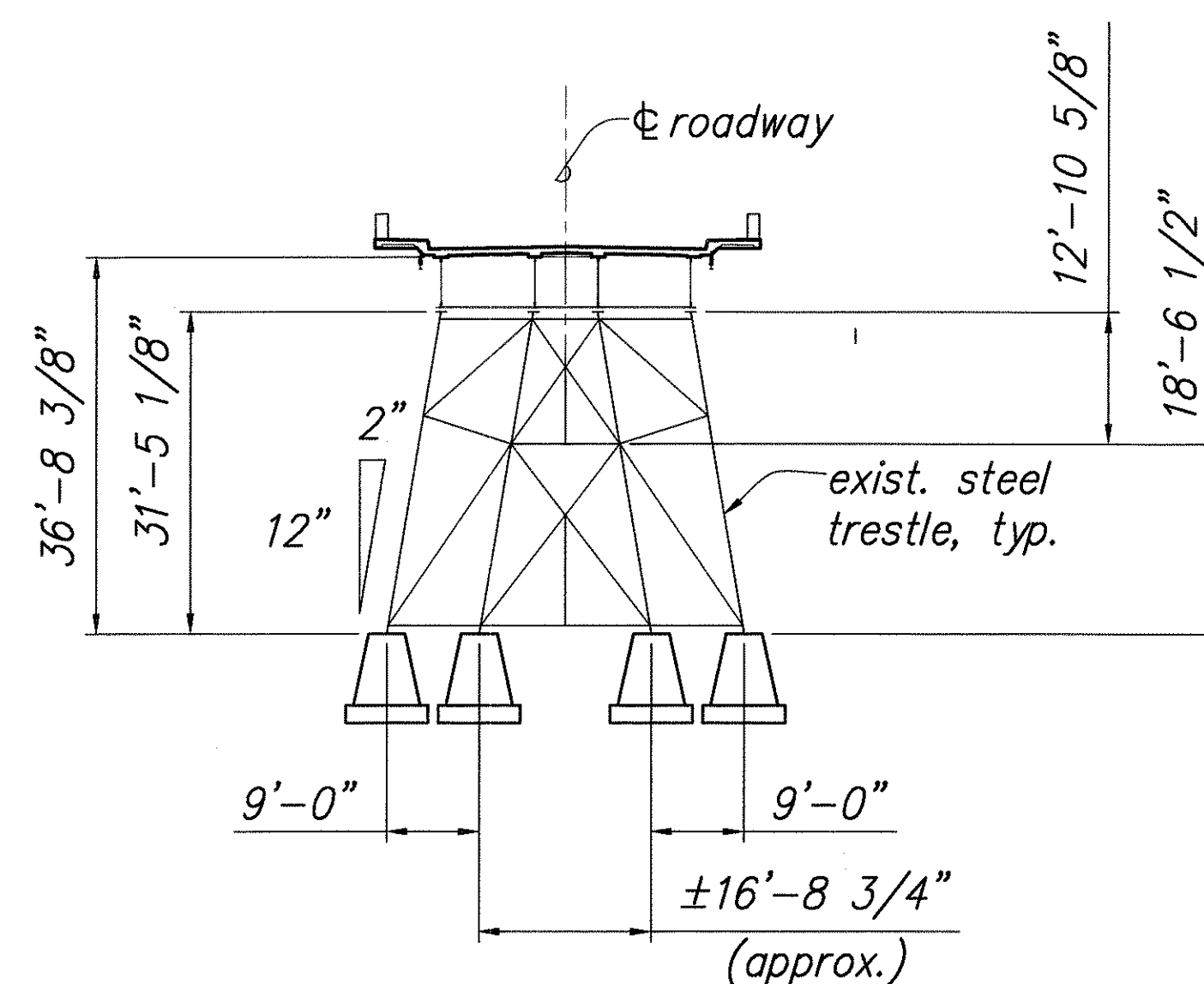
SECTION AT BENT No. 2 B
Scale: $1/16" = 1'-0"$ 42 | 43



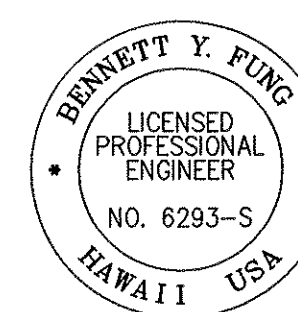
SECTION AT BENT No. 3 C
Scale: $1/16" = 1'-0"$ 42 | 43



SECTION AT BENT No. 4 D
42 | 43
Scale: 1/16" = 1'-0"



SECTION AT BENT No. 5 E
42 | 43
Scale: 1/16" = 1'-0"



THIS WORK WAS PREPARED BY ME OR
UNDER MY SUPERVISION

Bennett Jung

SIGNATURE _____ EXP. DATE OF THE LICEN 4/30/0

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SECTION ELEVATION

UMAUMA BRIDGE

MAINTENANCE PLATFORM ON VARIOUS BRIDGES

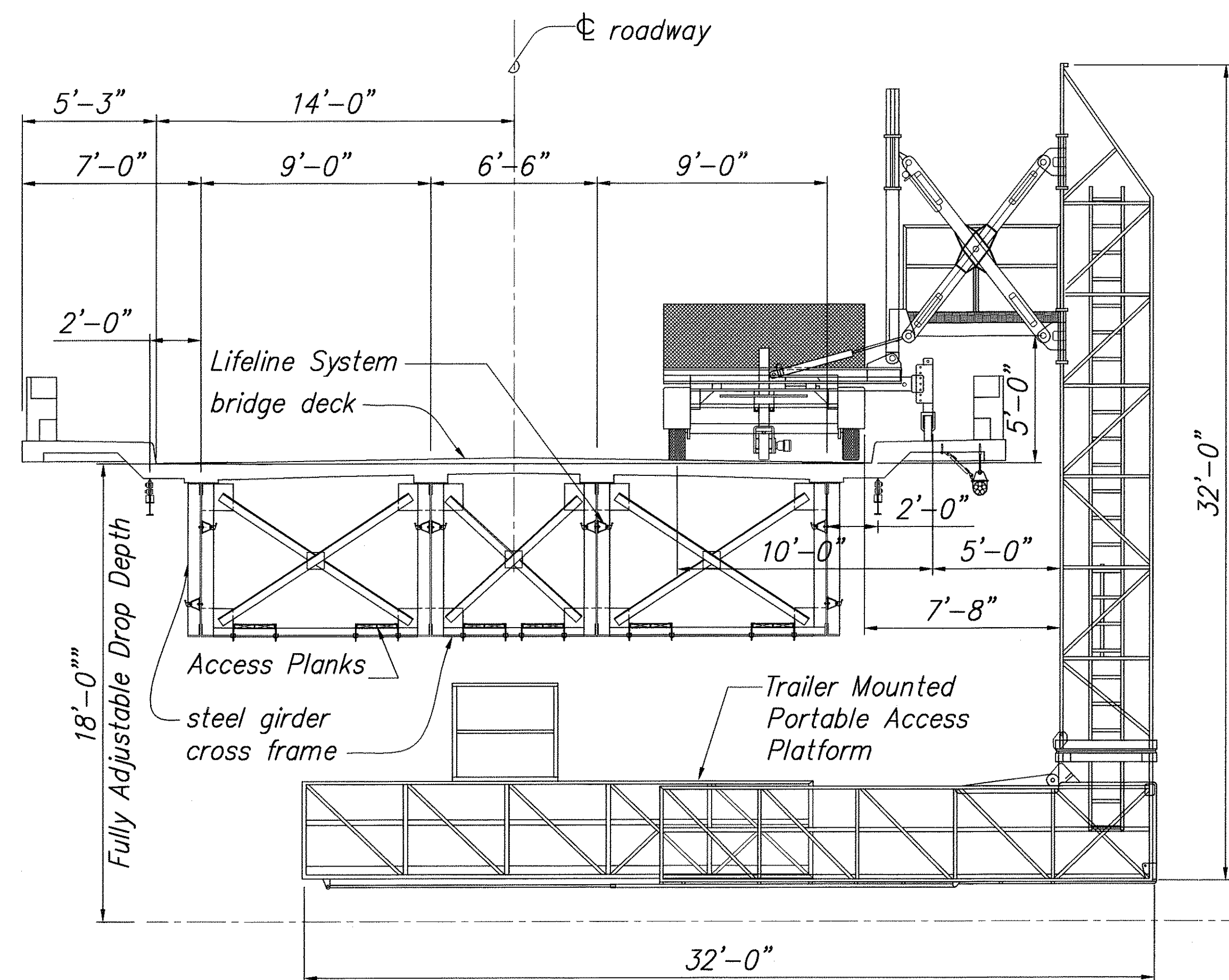
PROJECT NO. HWY-H-09-99M

06 Scale: $1/16" = 1'-0"$

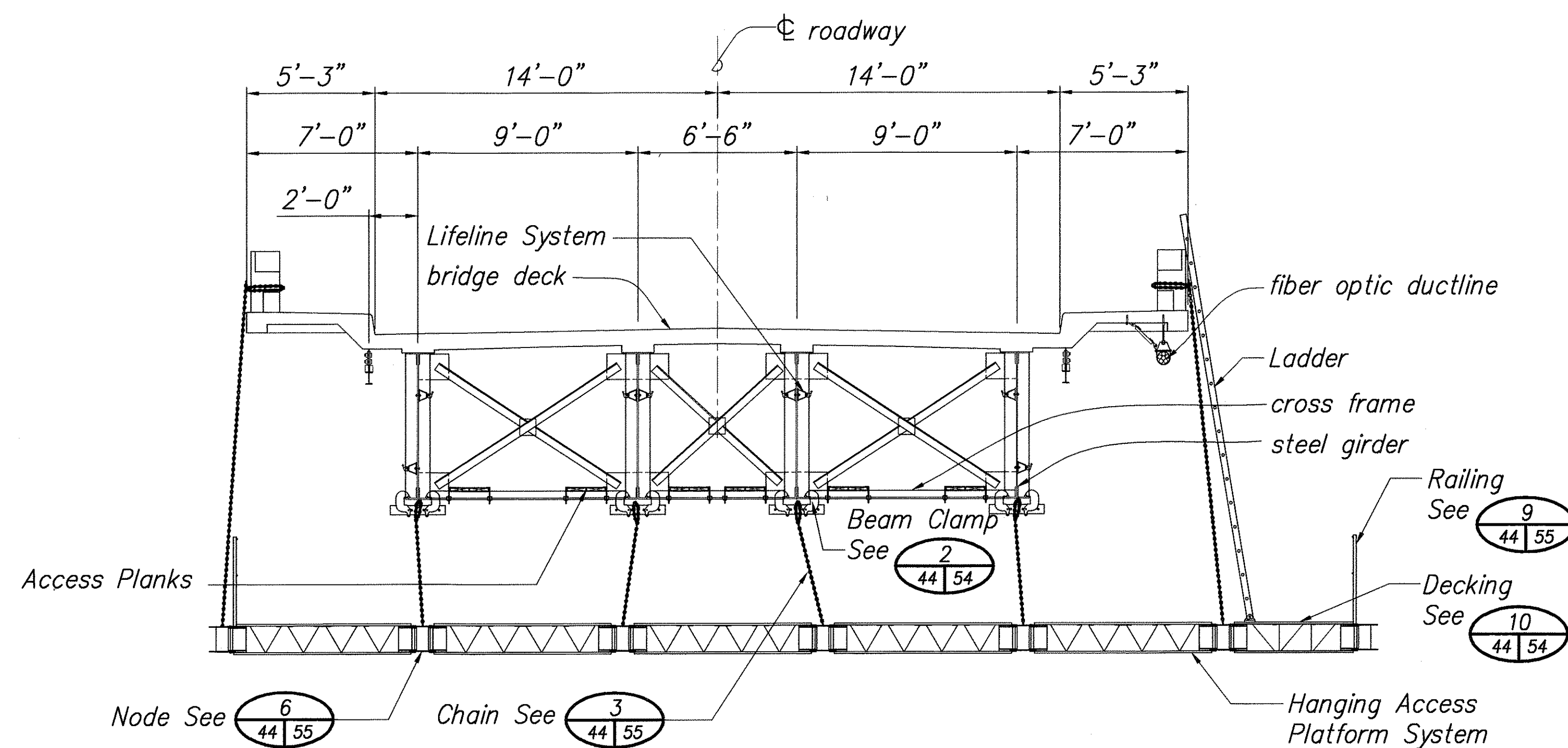
Date: Apr. 2005

Sheet No. 43 Of 81 Sheets

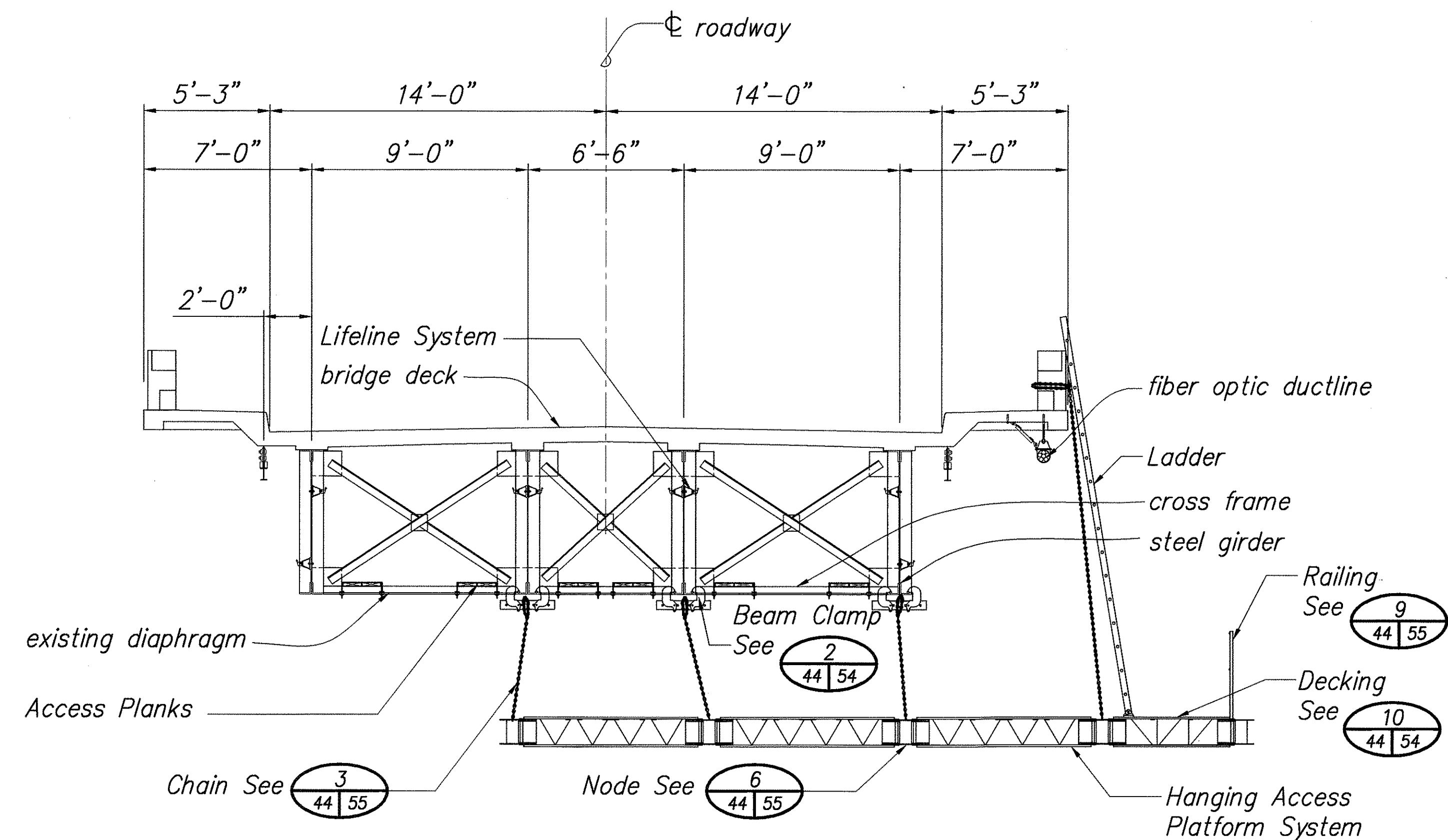
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-H-09-99M	2005	44	81



SECTION WITH PORTABLE ACCESS PLATFORM A
42 | 44
Scale: 1/4" = 1'-0"

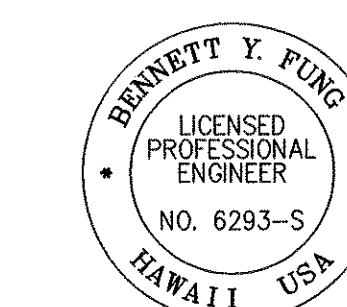


SECTION WITH HANGING ACCESS PLATFORM CONFIGURATION No. 2 C
42 | 44
Scale: 1/4" = 1'-0"



SECTION WITH HANGING ACCESS PLATFORM CONFIGURATION No. 1 B
42 | 44
Scale: 1/4" = 1'-0"

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
CHECKED BY	
NO.	



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Bennett Y. Fung
SIGNATURE
4/30/06
EXP. DATE OF THE LICENSE

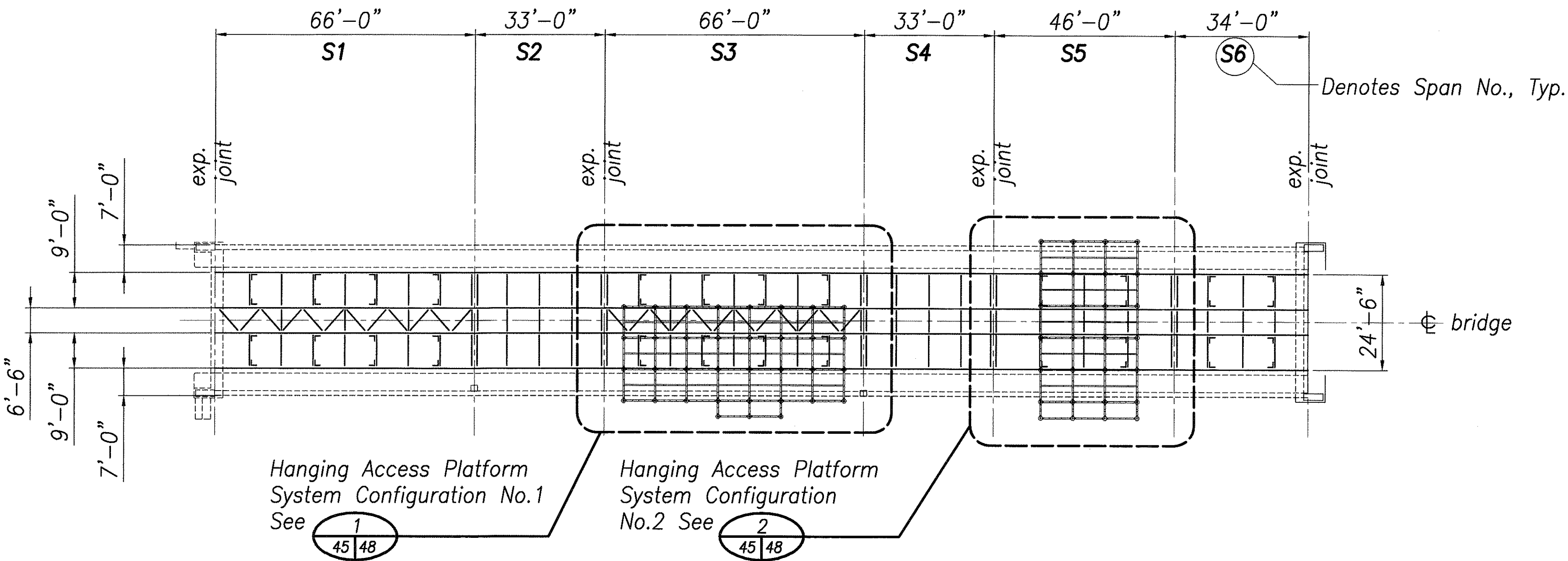
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SECTION

UMAUMA BRIDGE
MAINTENANCE PLATFORM ON VARIOUS BRIDGES
PROJECT NO. HWY-H-09-99M
Scale: 1/4" = 1'-0" Date: Apr. 2005

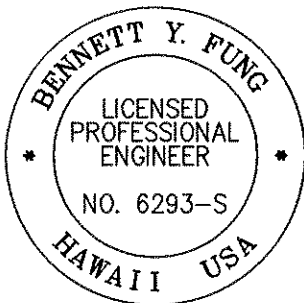
Sheet No. 44 Of 81 Sheets

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-H-09-99M	2005	45	81



UMAUMA BRIDGE GIRDER PLAN 1
45 45
Scale: 3/64" = 1'-0"

ORIGINAL PLAN	DATE
DESIGNED BY	
TRACED BY	
NOTED BY	
CHECKED BY	
NO.	



THIS WORK WAS PREPARED BY ME OR
UNDER MY SUPERVISION

Bennett Y. Fung
SIGNATURE EXP. DATE OF THE LICENSE 4/30/06

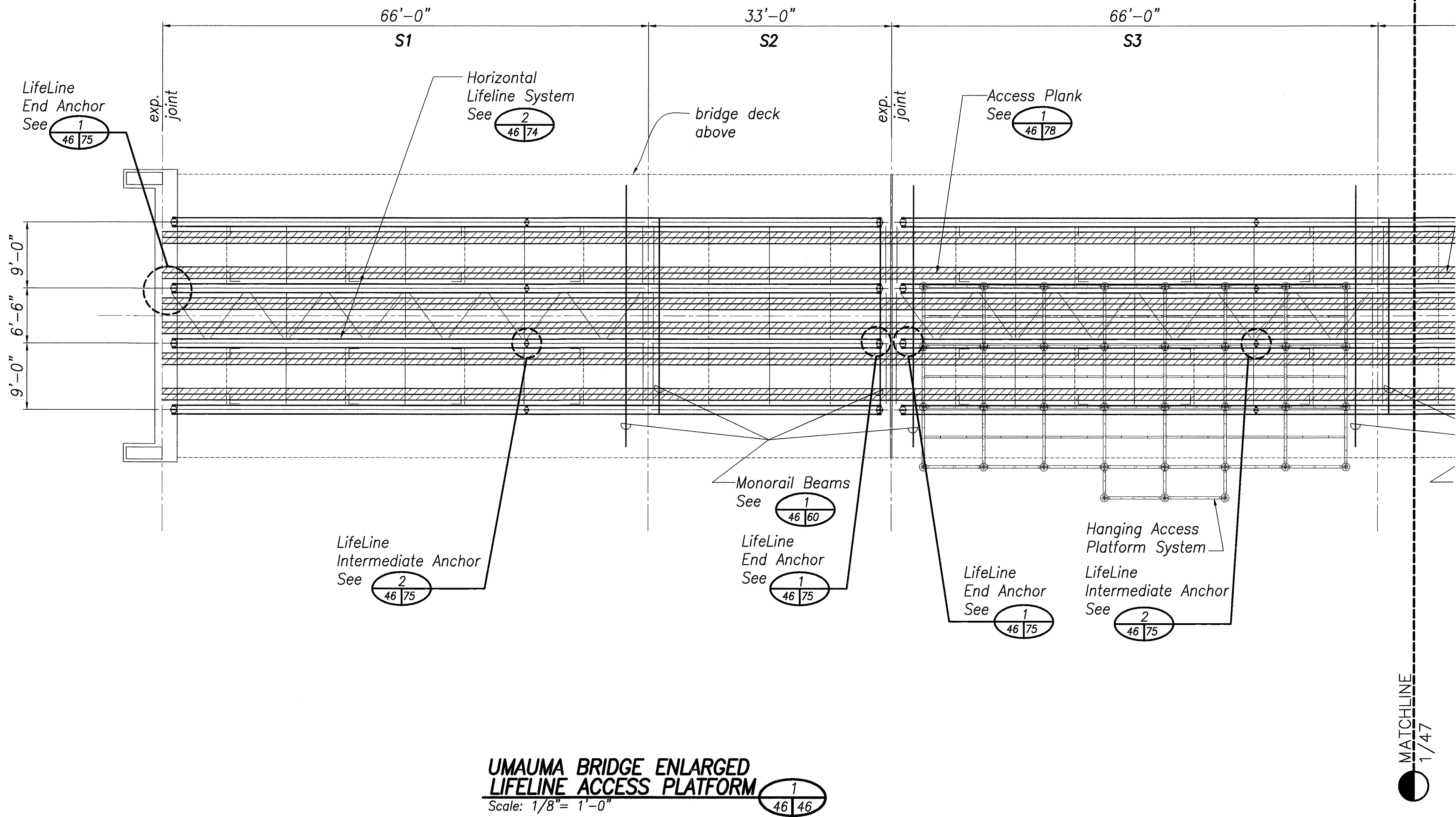
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GIRDER PLAN

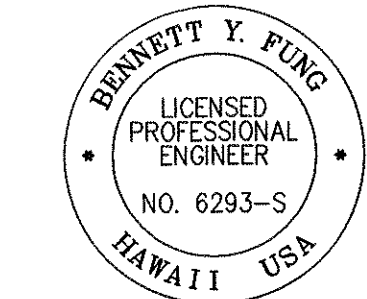
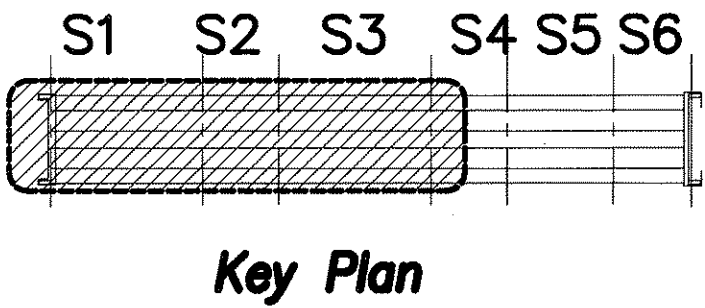
UMAUMA BRIDGE
MAINTENANCE PLATFORM ON VARIOUS BRIDGES
PROJECT NO. HWY-H-09-99M
Scale: 3/64" = 1'-0" Date: Apr. 2005

Sheet No. 45 Of 81 Sheets

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-H-09-99M	2005	46	81



ORIGINAL PLAN	SURVEY PLATTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	DESIGNED BY	
	CHECKED BY	



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Bennett Y. Fung

4/30/06

SIGNATURE EXP. DATE OF THE LICENSE

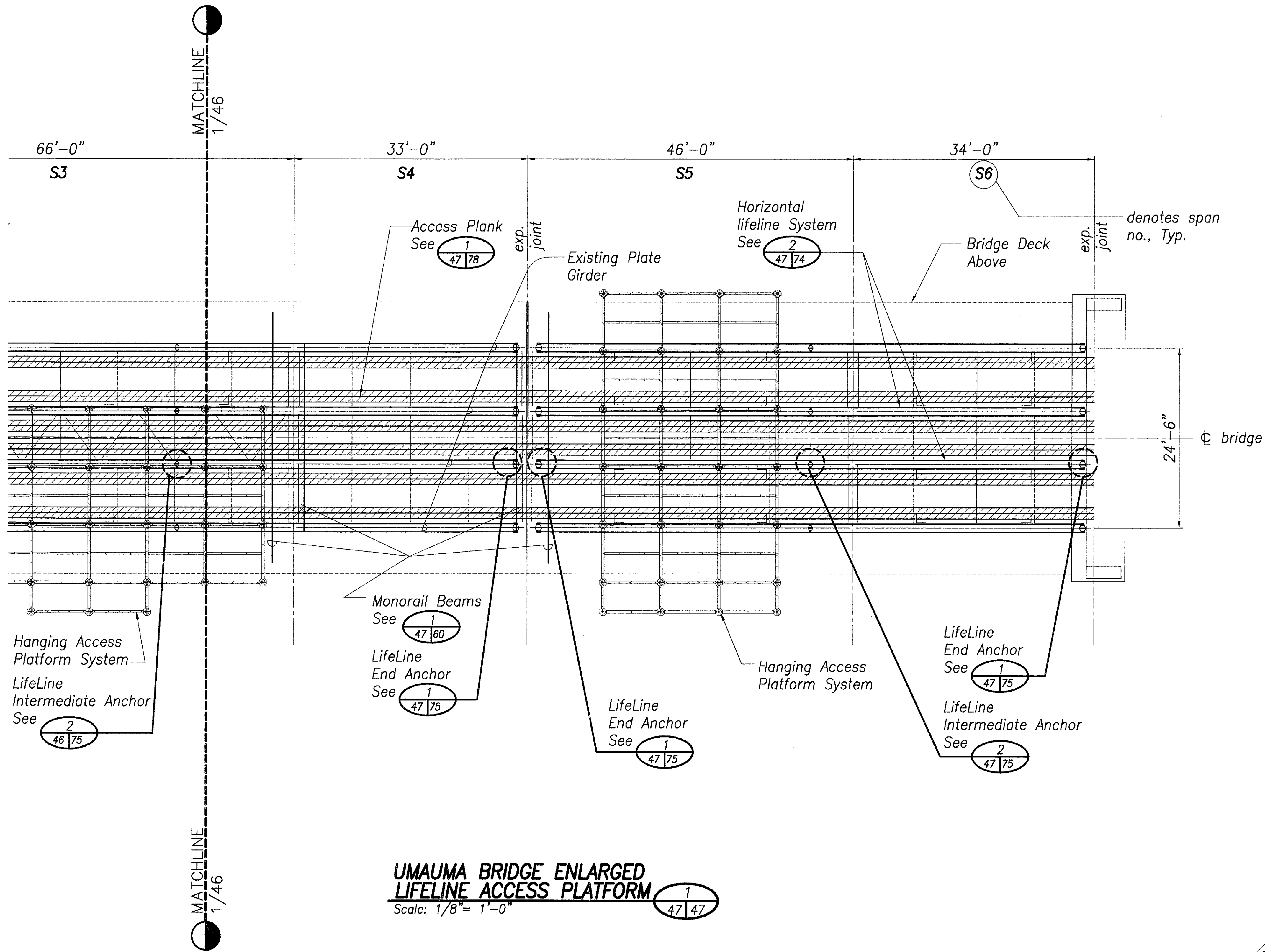
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**ENLARGED LIFELINE SYSTEM,
PLANKING AND ACCESS
PLATFORM PLAN**

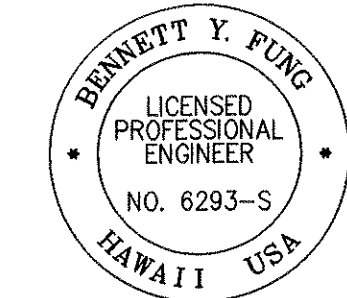
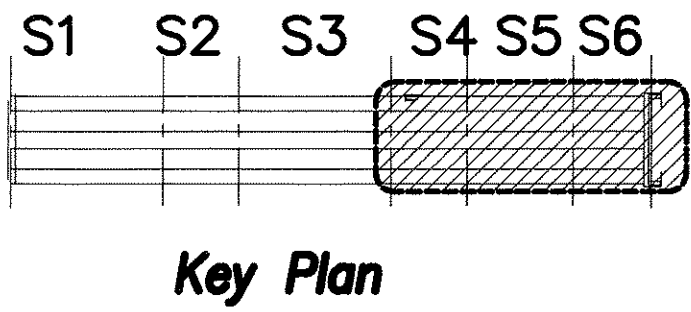
UMAUMA BRIDGE
MAINTENANCE PLATFORM ON VARIOUS BRIDGES
PROJECT NO. HWY-H-09-99M
Scale: 1/8" = 1'-0" Date: Apr. 2005

Sheet No. 46 Of 81 Sheets

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-H-09-99M	2005	47	81



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	DESIGNED BY	
	CHECKED BY	



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
 Signature: *Bennett Y. Fung*
 EXP. DATE OF THE LICENSE: 4/30/06

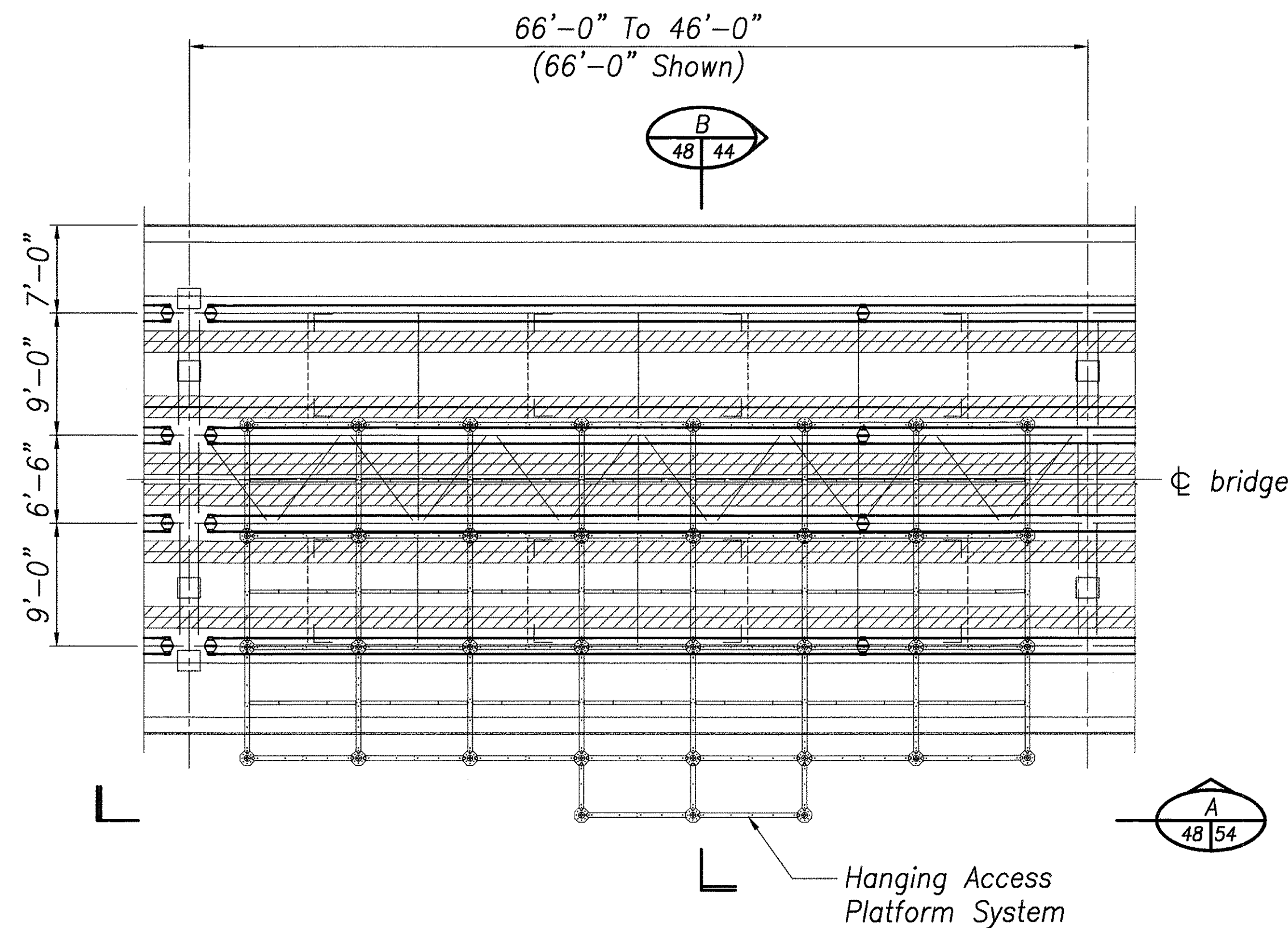
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

**ENLARGED LIFELINE SYSTEM,
 PLANKING AND ACCESS
 PLATFORM PLAN**
 UMAUMA BRIDGE
 MAINTENANCE PLATFORM ON VARIOUS BRIDGES
 PROJECT NO. HWY-H-09-99M
 Scale: 1/8" = 1'-0" Date: Apr. 2005

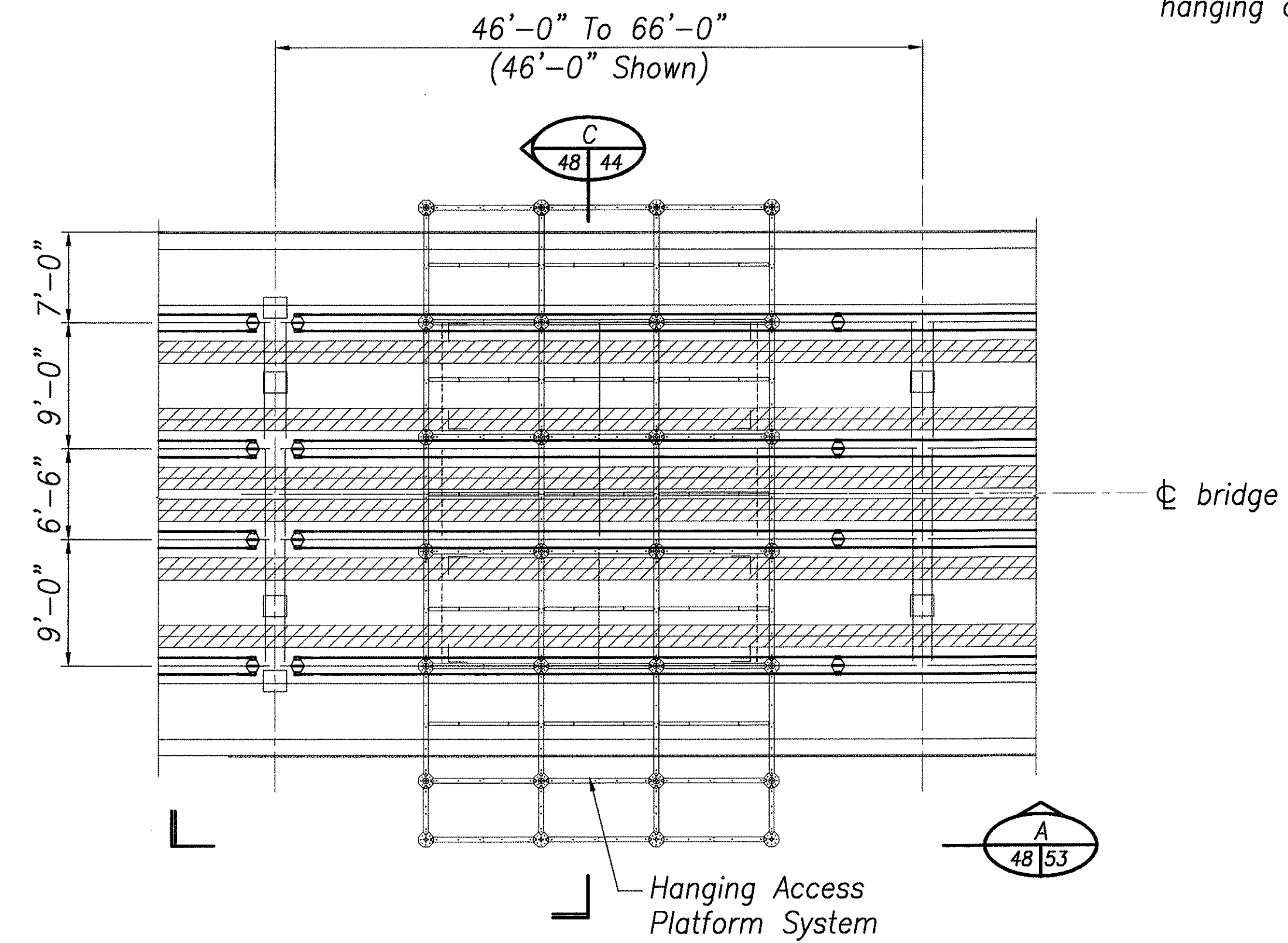
Sheet No. 47 Of 81 Sheets

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-H-09-99M	2005	48	81

- Notes:
1. Hanging access platform configuration no. 1 and no. 2 are acceptable layouts for use on this bridge. Either one of these platforms may be used at any bridge span.
 2. Live load on the hanging access platform shall be limited to 25 psf.
 3. See drawings 51 for details of hanging access platform system.

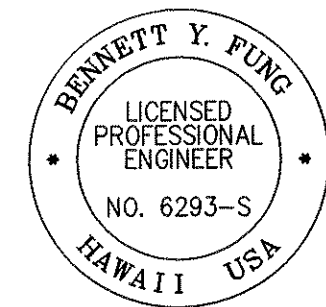


**HANGING ACCESS PLAN
PLAN CONFIGURATION No. 1**
Scale: 1/8" = 1'-0"



**HANGING ACCESS PLAN
PLAN CONFIGURATION No. 2**
Scale: 1/8" = 1'-0"

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



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Bennett Y. Fung
SIGNATURE
EXP. DATE OF THE LICENSE 4/30/06

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**HANGING ACCESS
PLATFORM PLAN**
UMAUMA BRIDGE
MAINTENANCE PLATFORM ON VARIOUS BRIDGES
PROJECT NO. HWY-H-09-99M
Scale: 1/8" = 1'-0" Date: Apr. 2005
Sheet No. 48 Of 81 Sheets