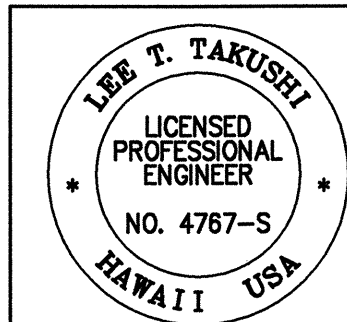
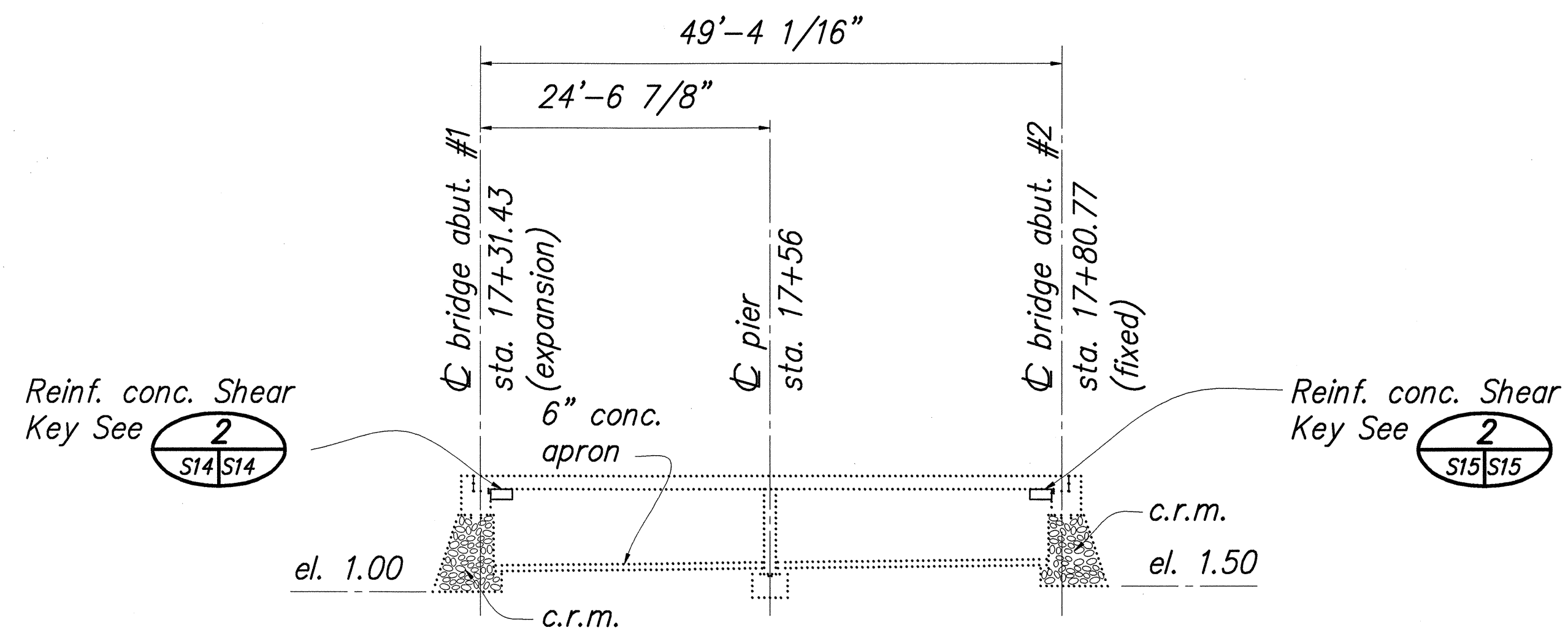
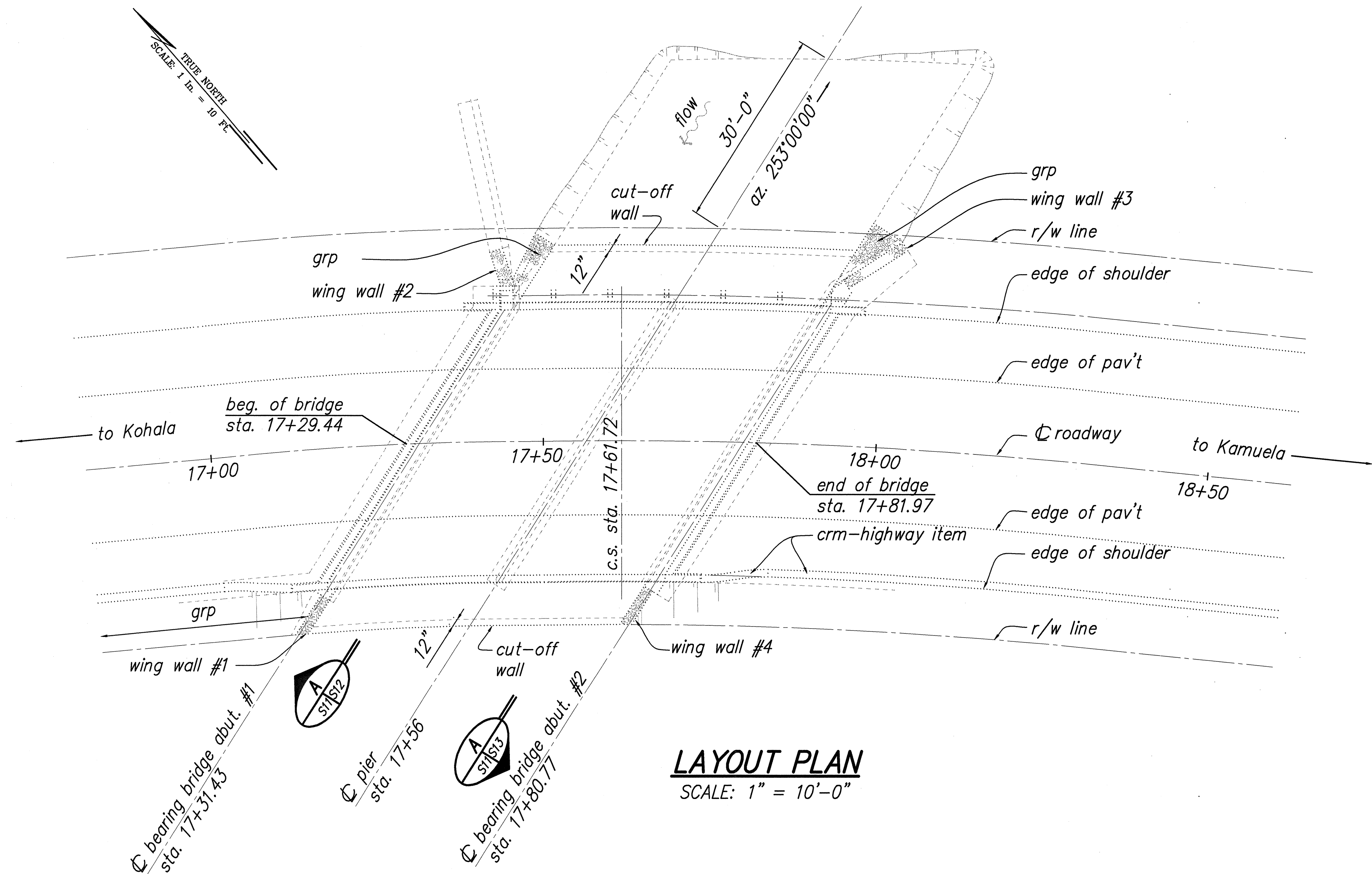


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-0100(61)	1999	13	17



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

KAWAIHAE BRIDGE
LAYOUT PLAN AND LONGITUDINAL SECTION

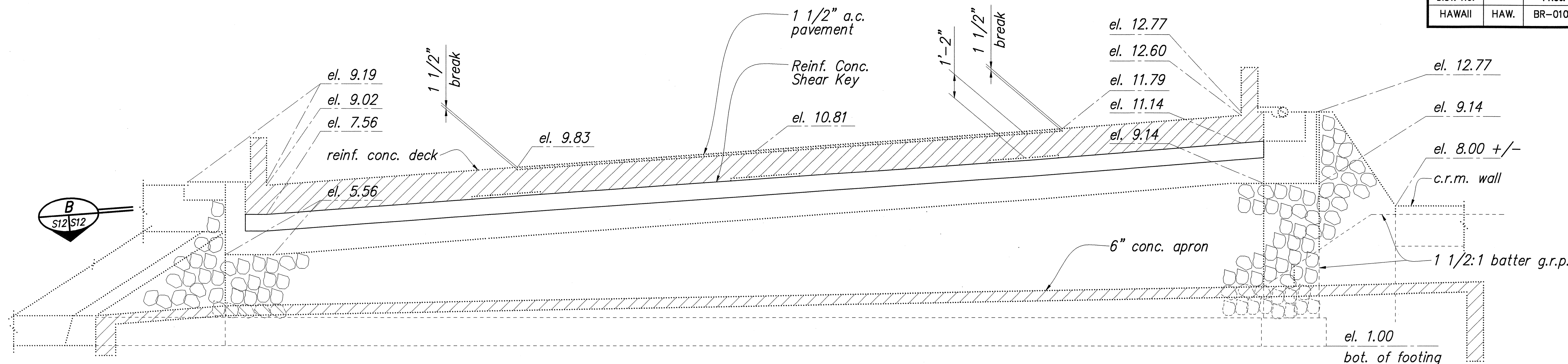
This work was prepared by me or under my supervision.
STRUCTURAL STAMP

SEISMIC RETROFIT OF VARIOUS BRIDGES,
VICINITY OF HONOKAA AND KAWAIHAE
FEDERAL AID PROJECT NO. BR-0100(61)

SCALE: AS NOTED DATE: AUGUST 1999

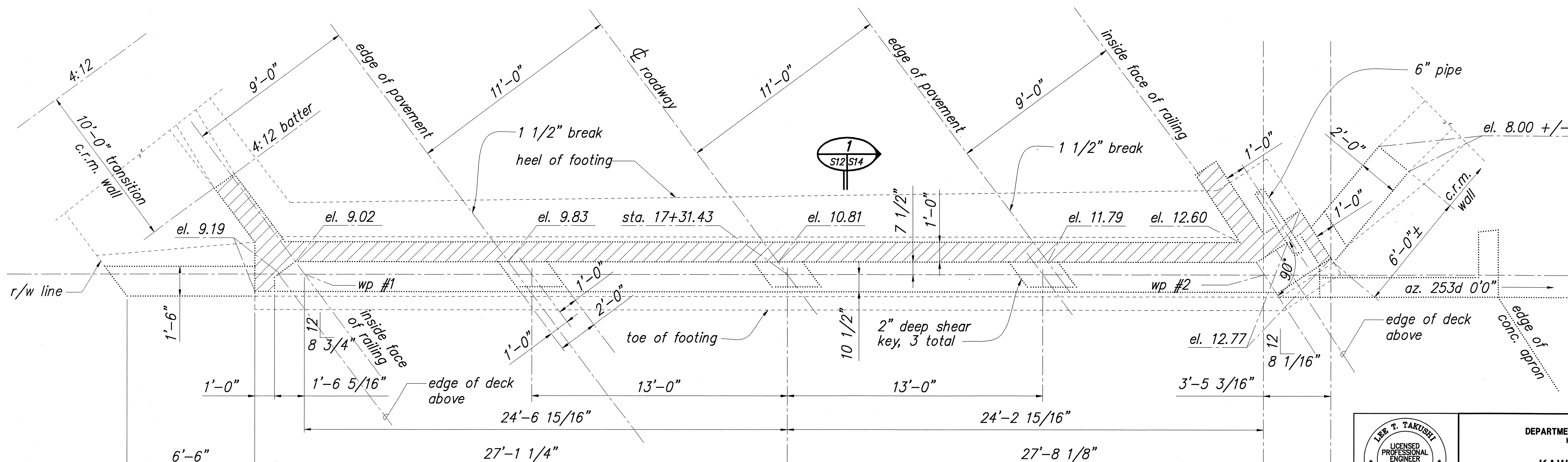
SHEET No. S11 OF 15 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-0100(61)	1999	14	17



ABUTMENT NO. 1 - ELEVATION

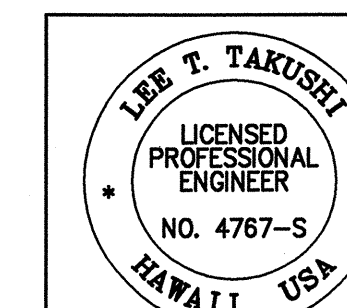
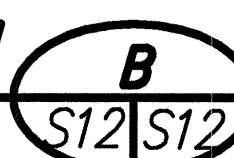
SCALE: 3/8"=1'-0"



NOTE: Reinf. conc. deck not shown for clarity.

ABUTMENT NO. 1 - PLAN

SCALE: 3/8"=1'-0"



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

KAWAIHAE BRIDGE ABUTMENT NO. 1 ELEVATION AND PLAN

SEISMIC RETROFIT OF VARIOUS BRIDGES,
VICINITY OF HONOKAA AND KAWAIHAE
FEDERAL AID PROJECT NO. BR-0100(61)

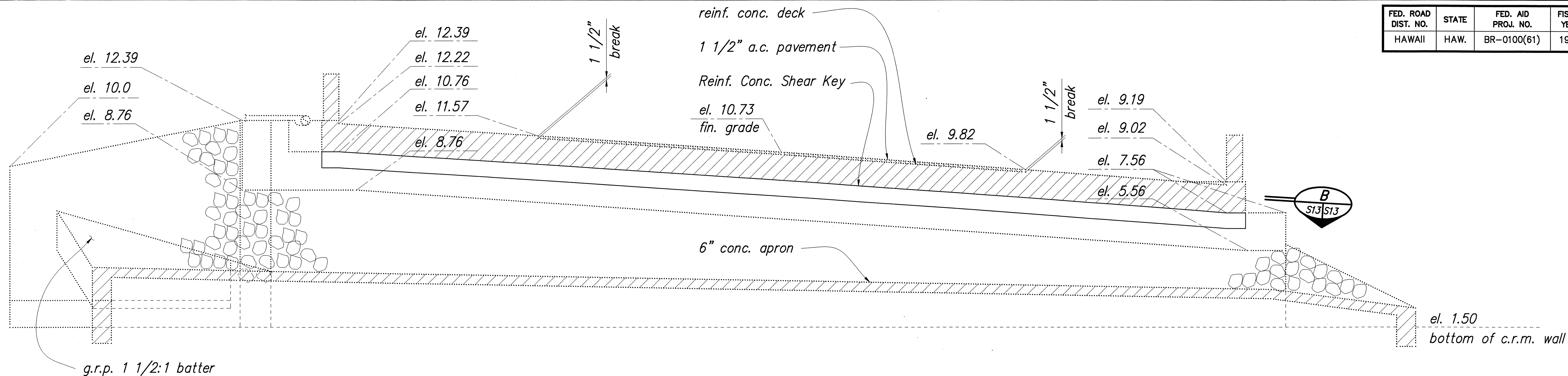
SCALE: AS NOTED DATE: AUGUST 1999

SHEET No. S12 OF 15 SHEETS

ORIGINAL PLAN	DATE
DRAWN BY	
CHECKED BY	
NOTED BY	
DATE	

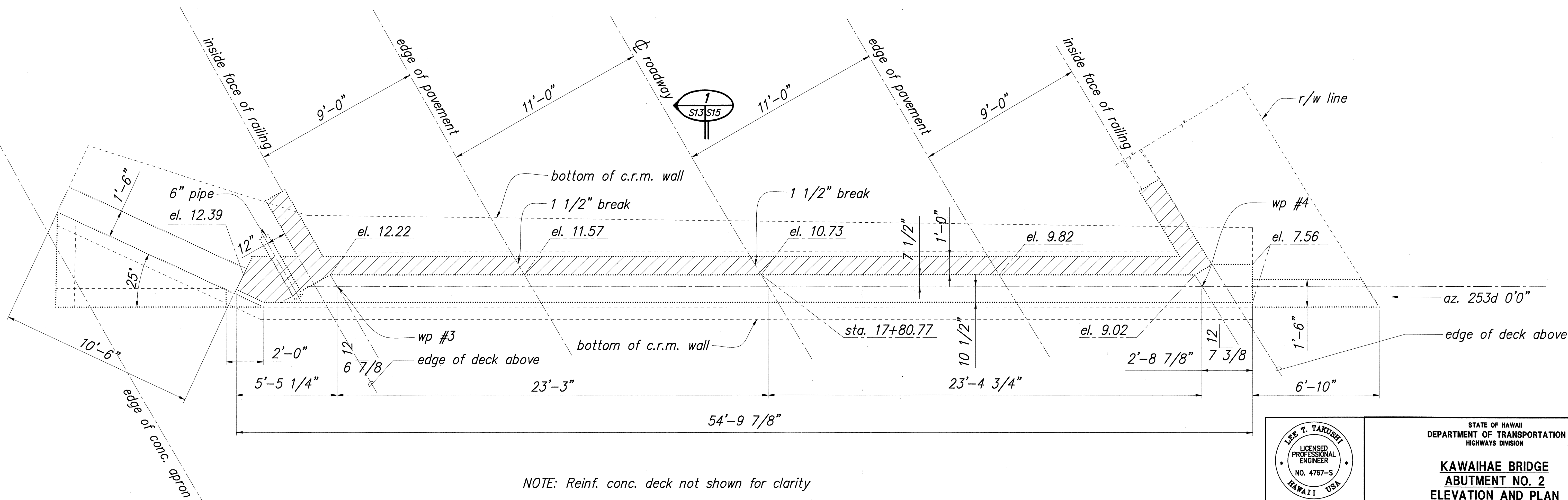
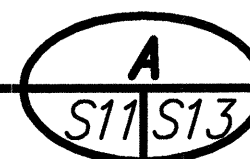
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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-0100(61)	1999	15	17



ABUTMENT NO. 2 - ELEVATION

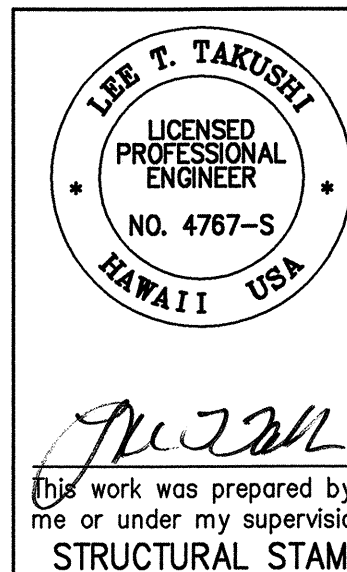
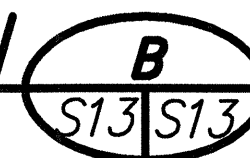
SCALE: 3/8"=1'-0"



NOTE: Reinf. conc. deck not shown for clarity

ABUTMENT NO. 2 - PLAN

SCALE: 3/8"=1'-0"



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

KAWAIHAE BRIDGE ABUTMENT NO. 2 ELEVATION AND PLAN

SEISMIC RETROFIT OF VARIOUS BRIDGES,
VICINITY OF HONOKAA AND KAWAIHAE
FEDERAL AID PROJECT NO. BR-0100(61)

SCALE: AS NOTED

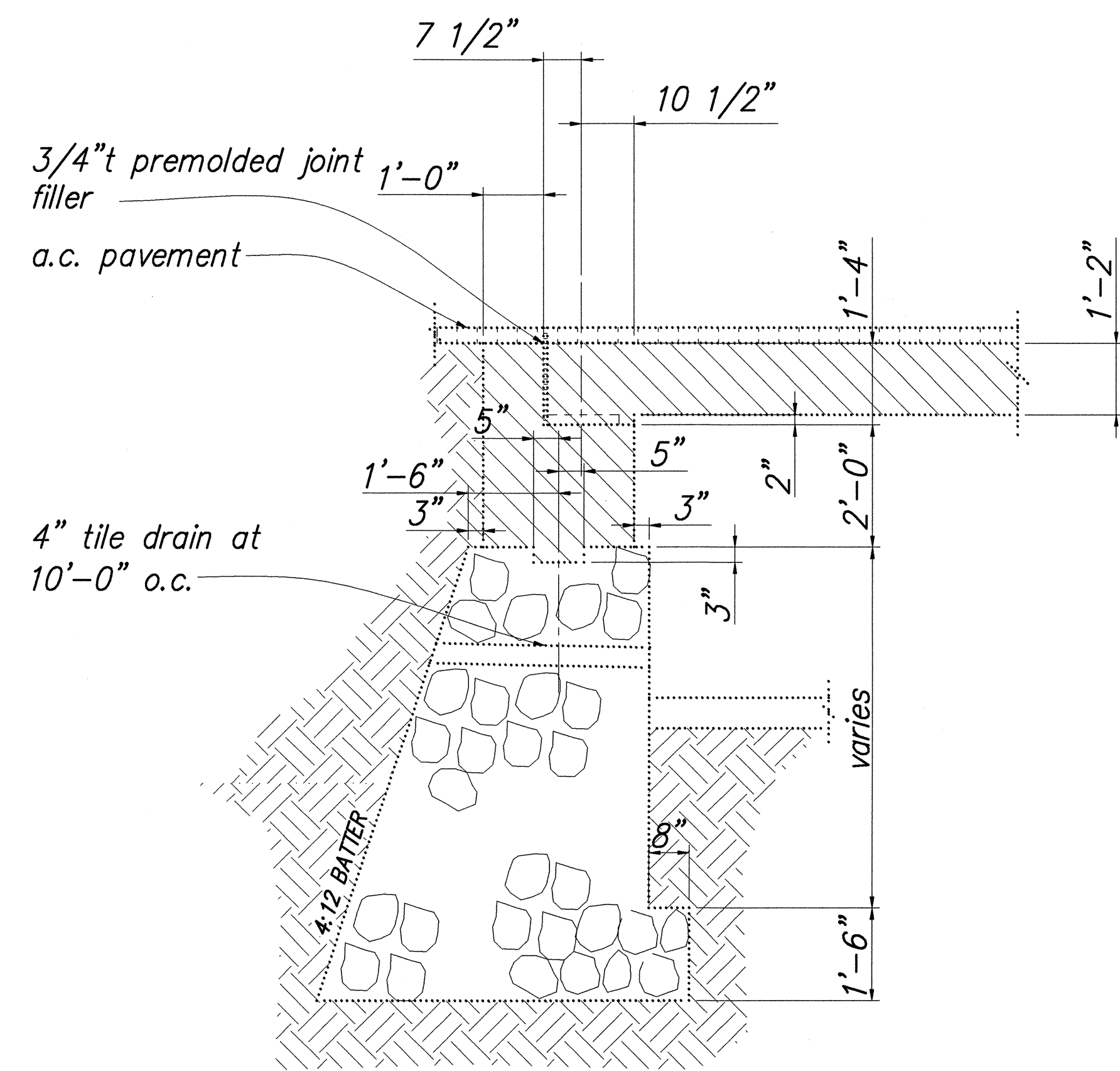
DATE: AUGUST 1999

SHEET No. S13 OF 15 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	TRACED BY	
	CHECKED BY	
	NO.	

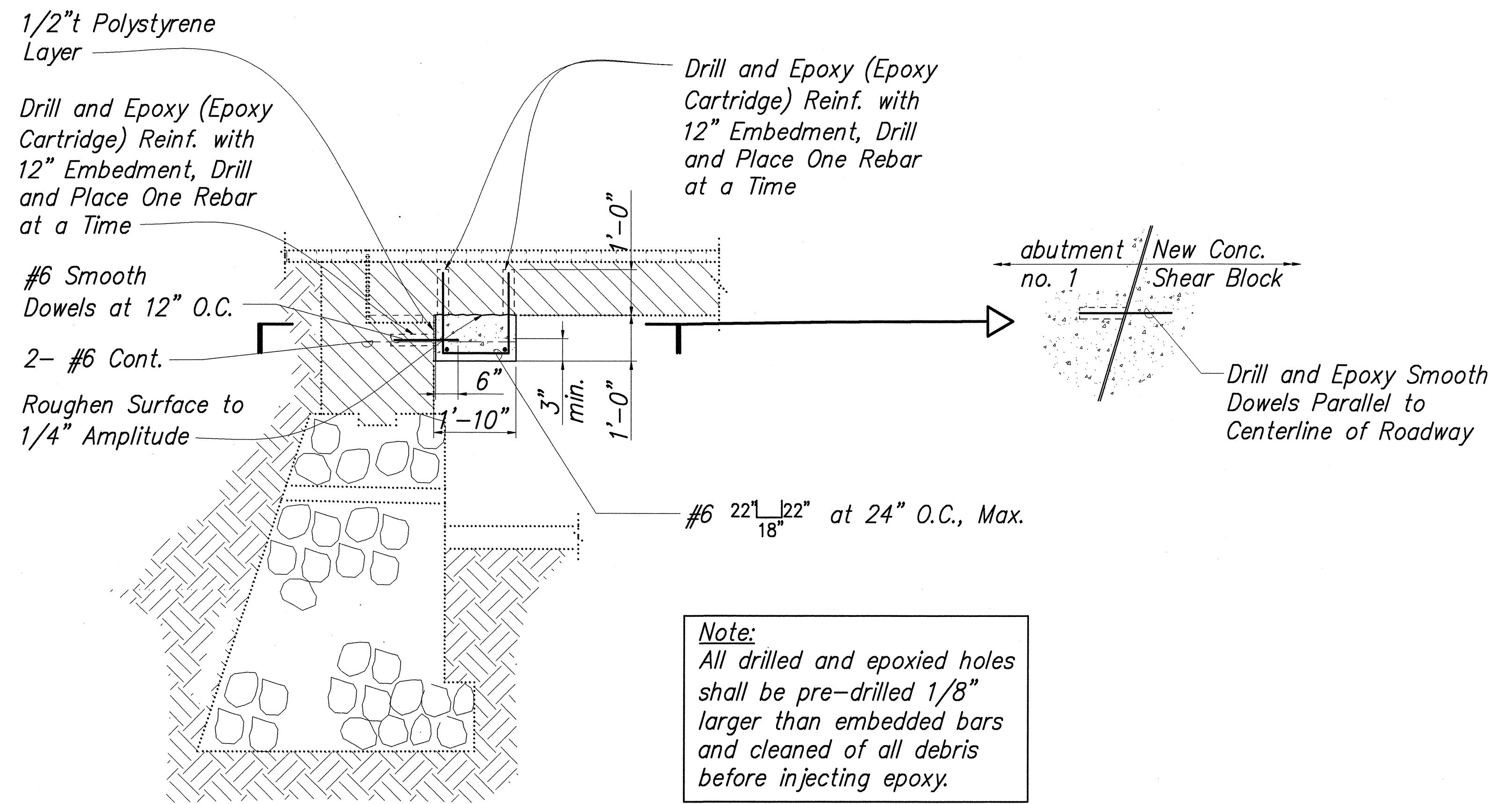
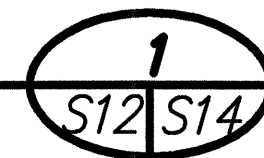
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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-0100(61)	1999	16	17



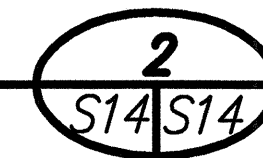
ABUTMENT NO. 1
EXISTING CONDITION DETAIL

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



ABUTMENT NO. 1
NEW CONDITION DETAIL

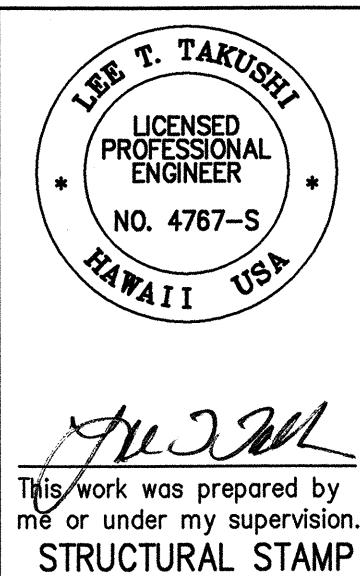
SCALE: 1/2"=1'-0"



Note:
All drilled and epoxied holes shall be pre-drilled 1/8" larger than embedded bars and cleaned of all debris before injecting epoxy.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	TRACED BY	
	CHECKED BY	
	NO.	

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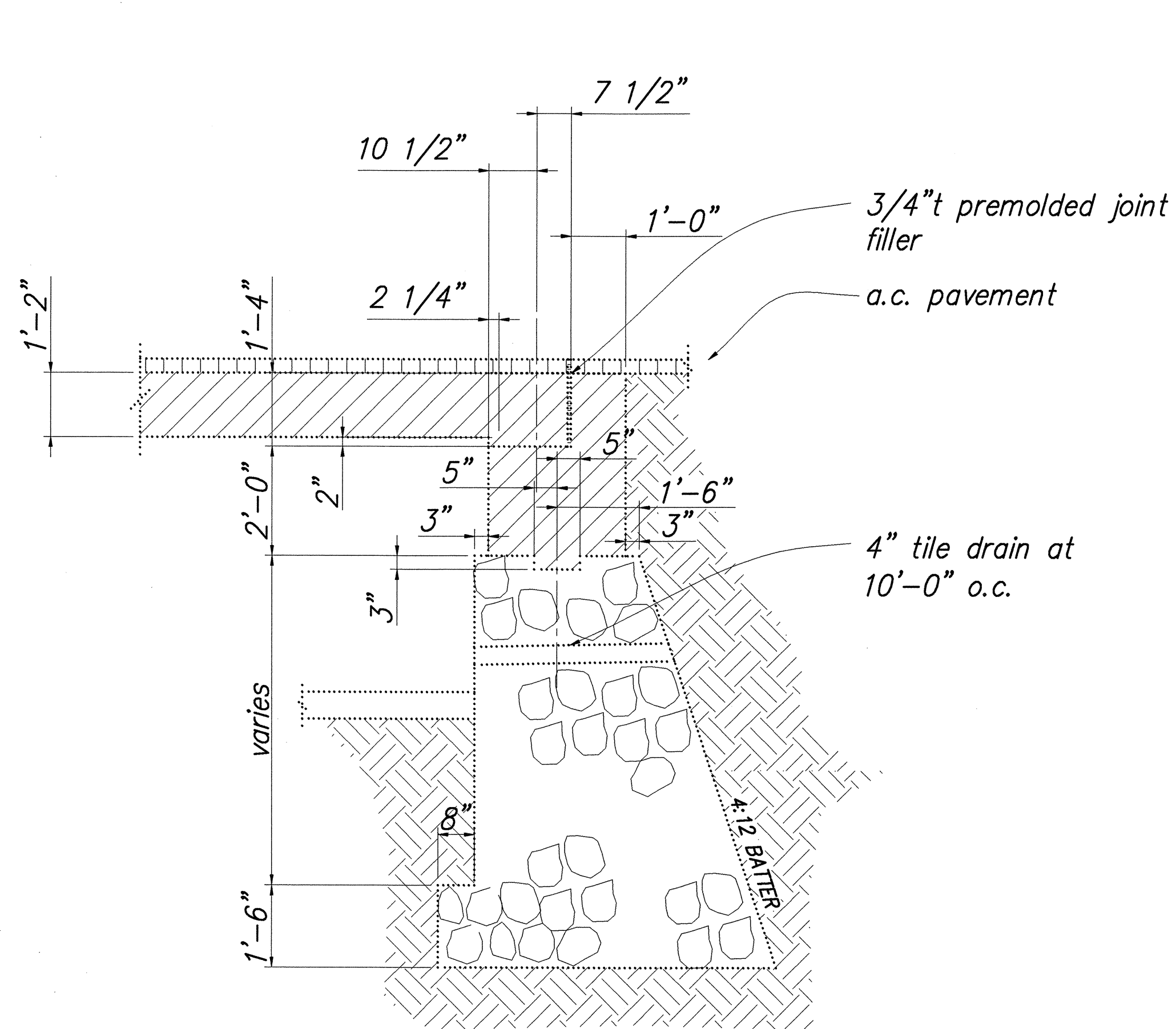
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
KAWAIHAE BRIDGE
ABUTMENT NO. 1 - DETAILS

SEISMIC RETROFIT OF VARIOUS BRIDGES,
VICINITY OF HONOKAA AND KAWAIHAE
FEDERAL AID PROJECT NO. BR-0100(61)

DATE: AUGUST 1999

SHEET No. S14 OF 15 SHEETS

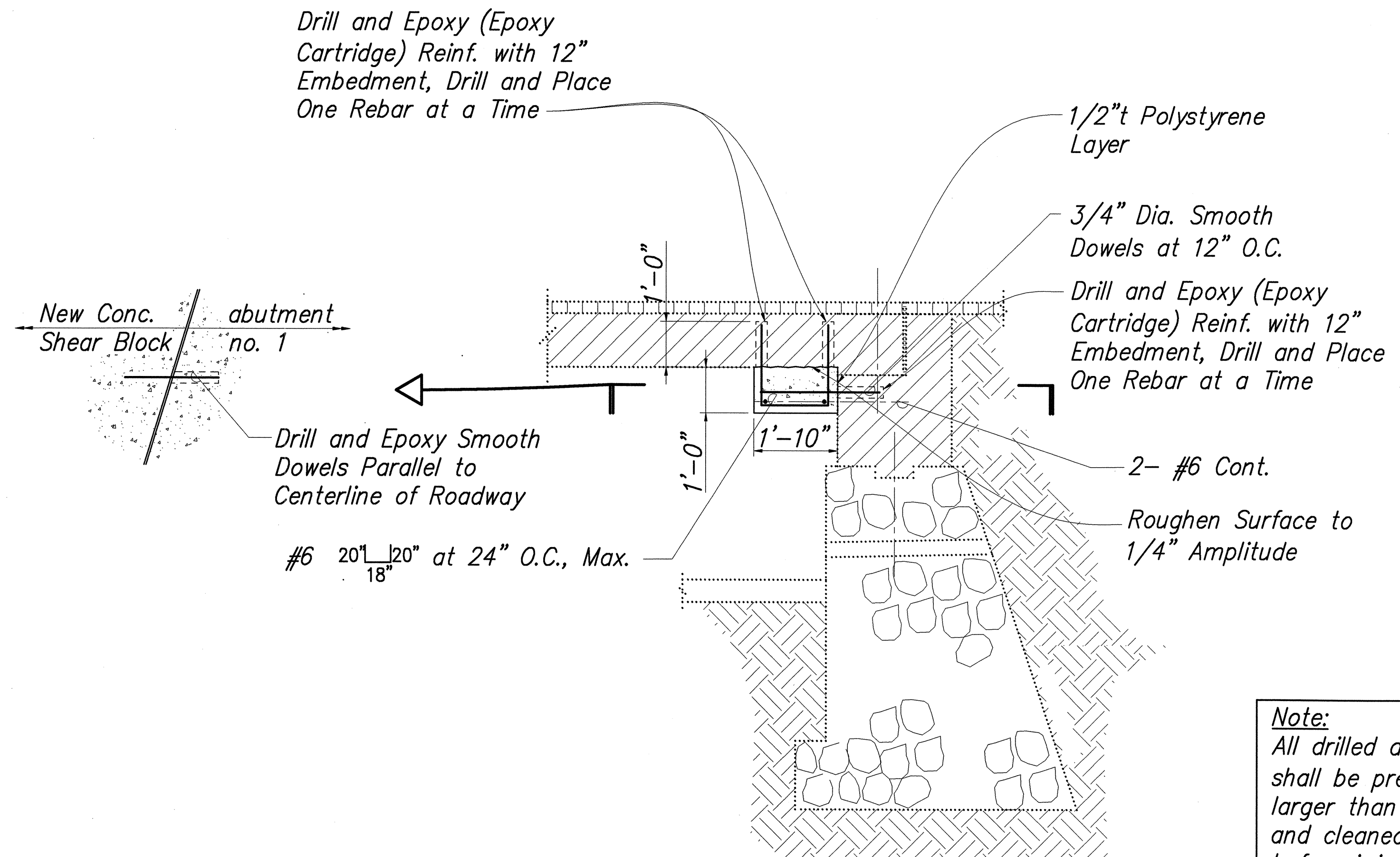
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-0100(61)	1999	17	17



ABUTMENT NO. 2
EXISTING CONDITION DETAIL

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

1
S13 S15



ABUTMENT NO. 2
NEW CONDITION DETAIL

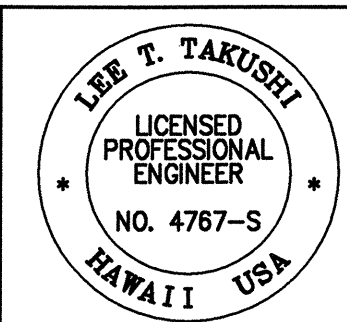
SCALE: 1/2"=1'-0"

2
S15 S15

Note:
All drilled and epoxied holes shall be pre-drilled 1/8" larger than embedded bars and cleaned of all debris before injecting epoxy.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	"
No.	CHECKED BY	"
	QUANTITIES BY	"
	REVISIONS BY	"

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

KAWAIHAE BRIDGE
ABUTMENT NO. 2 - DETAILS

SEISMIC RETROFIT OF VARIOUS BRIDGES,
VICINITY OF HONOKAA AND KAWAIHAE
FEDERAL AID PROJECT NO. BR-0100(61)

SCALE: AS NOTED DATE: AUGUST 1999

SHEET No. S15 OF 15 SHEETS