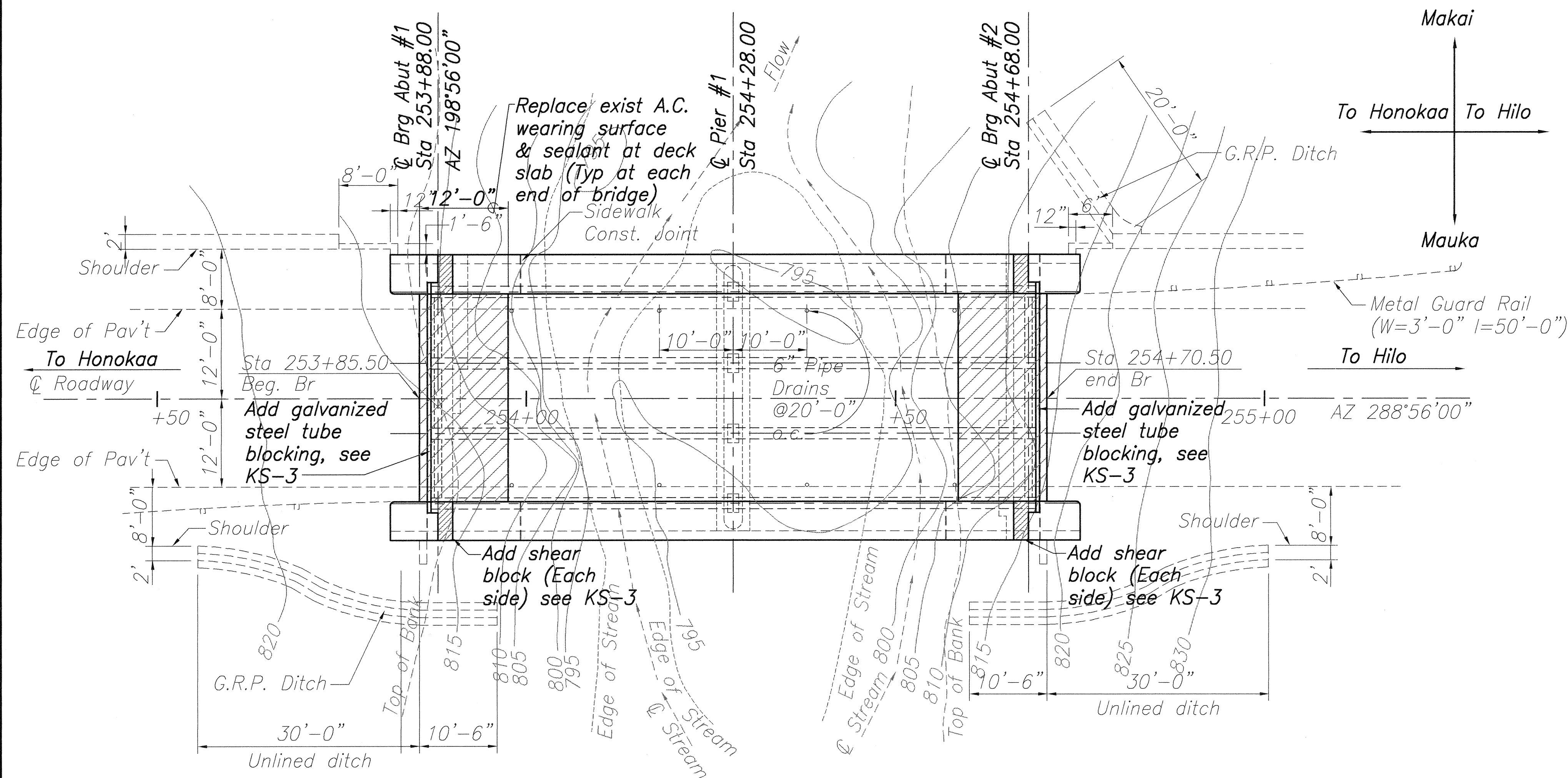
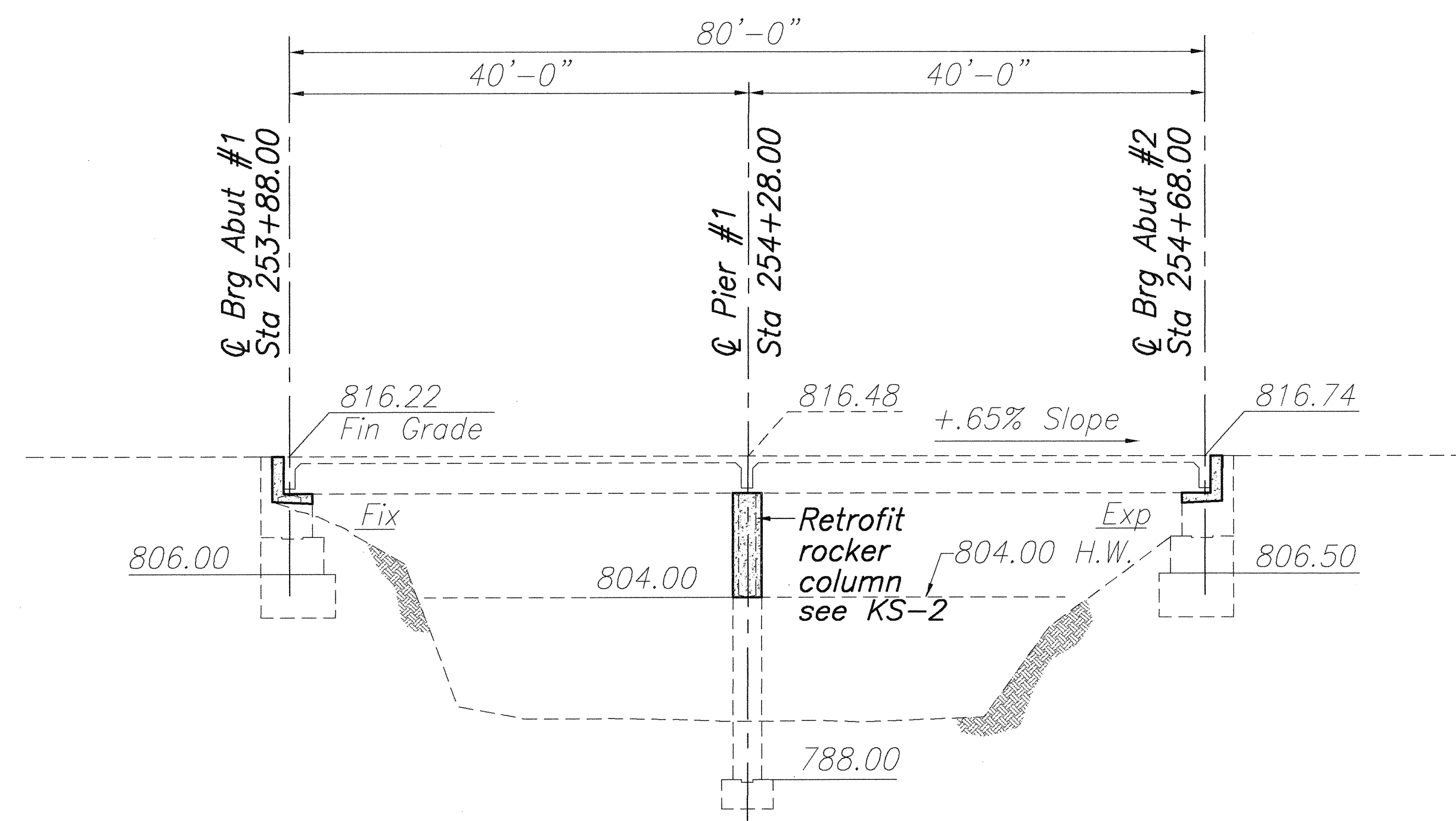


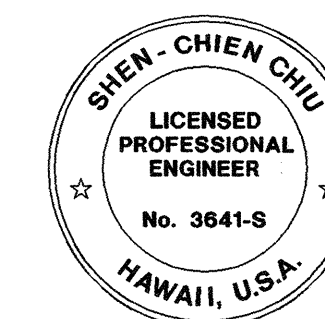
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-019-2(48)	1999	6	15



LAYOUT PLAN
Scale: 1"=10'-0"



LONG. SECTION ALONG @ ROADWAY
Scale: 1"=10'-0"



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION
Shen-Chieh Chiu

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

KAUMOALII STREAM BRIDGE
LAYOUT PLAN & LONG. SECTION

SEISMIC RETROFIT OF VARIOUS BRIDGES
VICINITY OF NORTH OF PAAUILO
FEDERAL AID PROJECT NO. BR-019-2(48)

Date: *August 16, 1999*

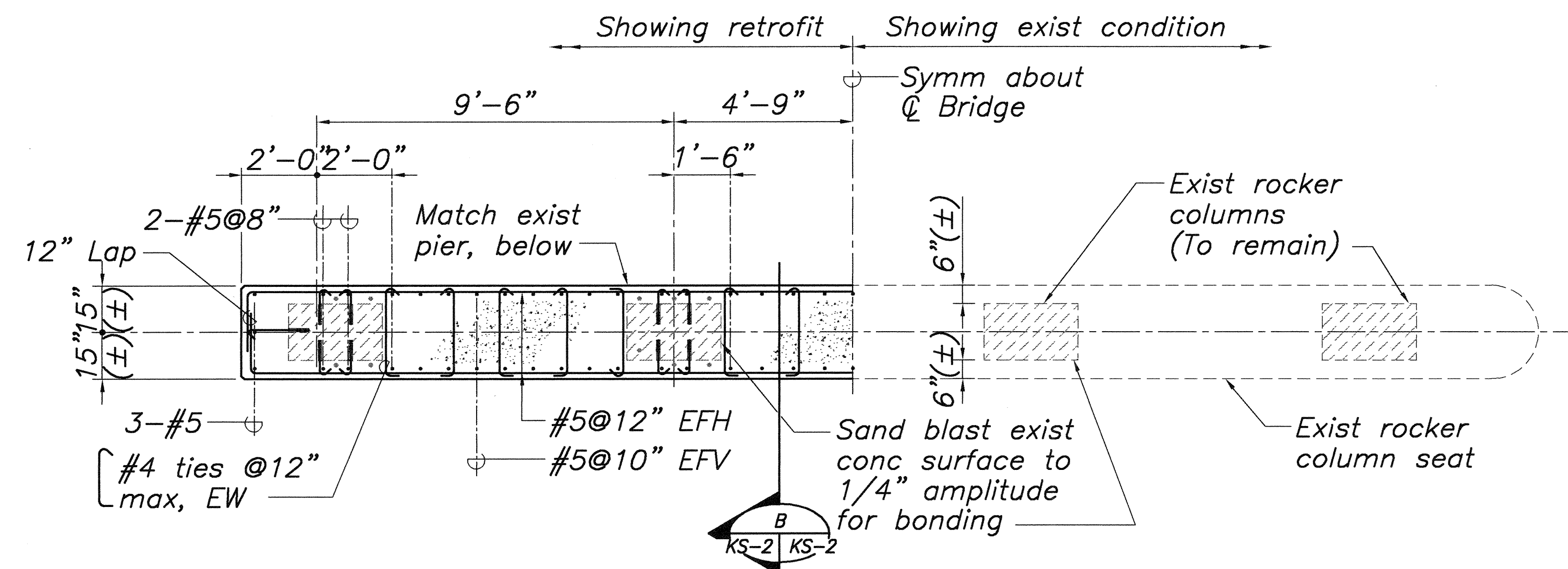
SHEET No. *KS-1* OF 15 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY _____ DATE _____
NOTEBOOK	DRAWN BY _____
	TRACED BY _____
	DESIGNED BY _____
	QUANTITIES BY _____
No. _____	CHECKED BY _____

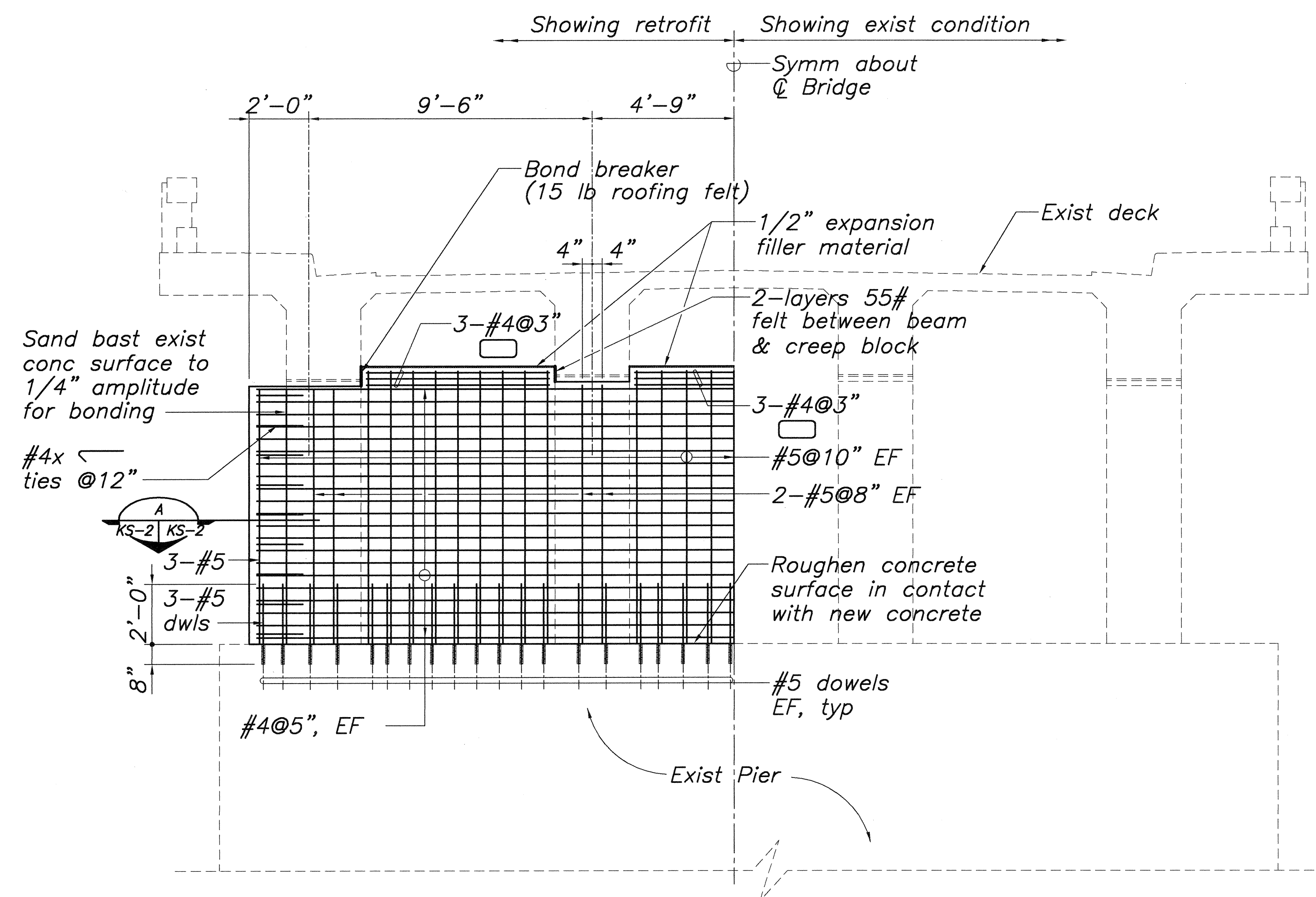
08-24 08/16/99 n:\dwn\6102-01\strict\ks

rS-1 DWG

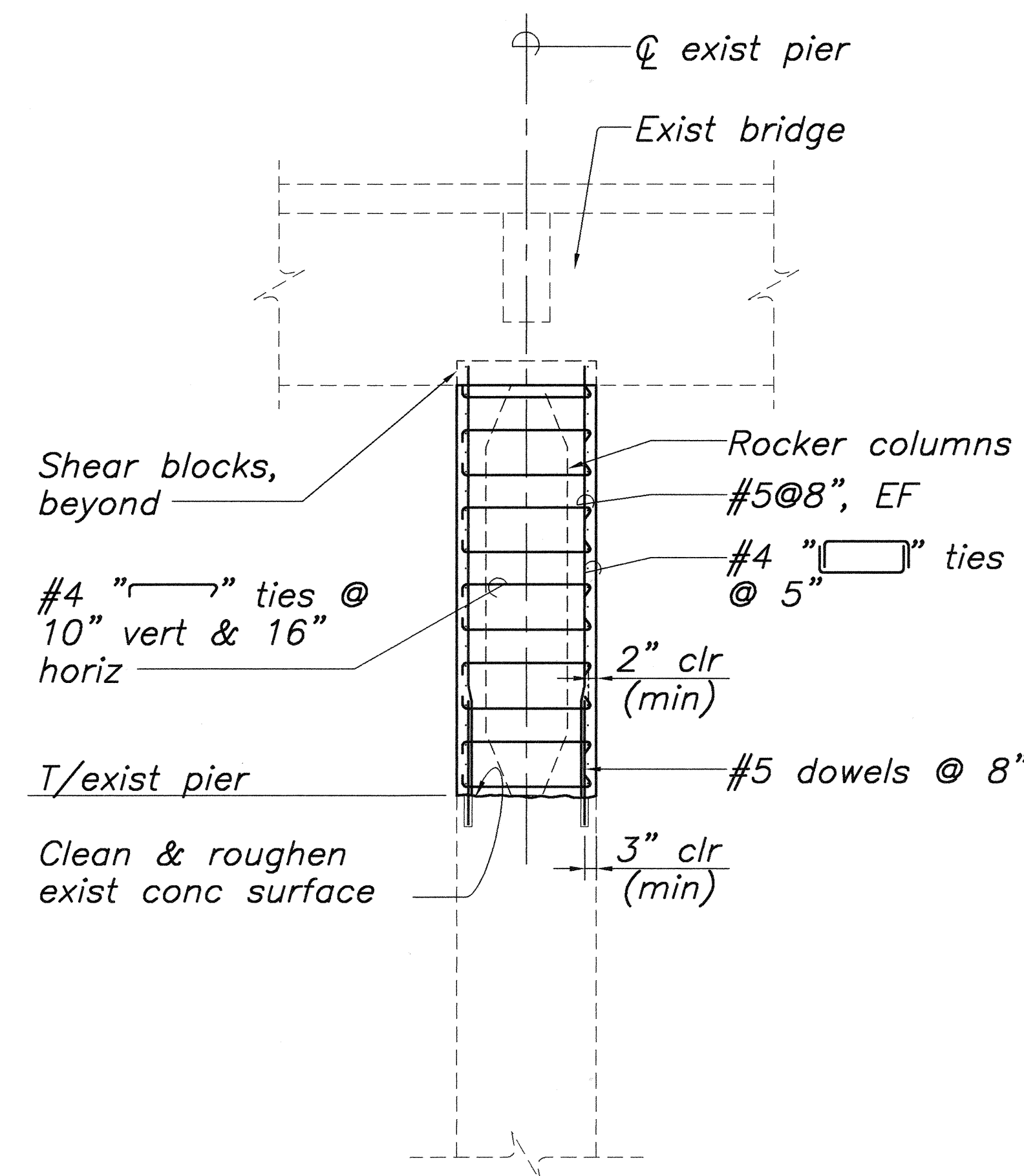
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-019-2(48)	1999	7	15



SECTION-PLAN A
Scale: 3/8"=1'-0" KS-2 KS-2



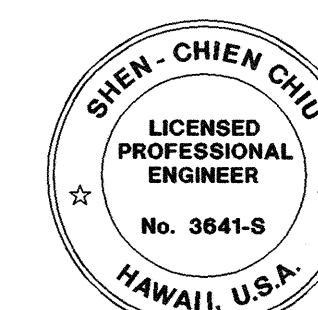
ELEVATION 1
Scale: 3/8"=1'-0" KS-2 KS-2



SECTION B
Scale: 3/8"=1'-0" KS-2 KS-2

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
DRAWN BY	DESIGNED BY	
NOTED BY	QUANTITIES BY	
CHECKED BY		

KS-2.DWG 08/16/99 N:\DWG\6102-01\STRUCT\KS



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Shen Chien Chiu

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

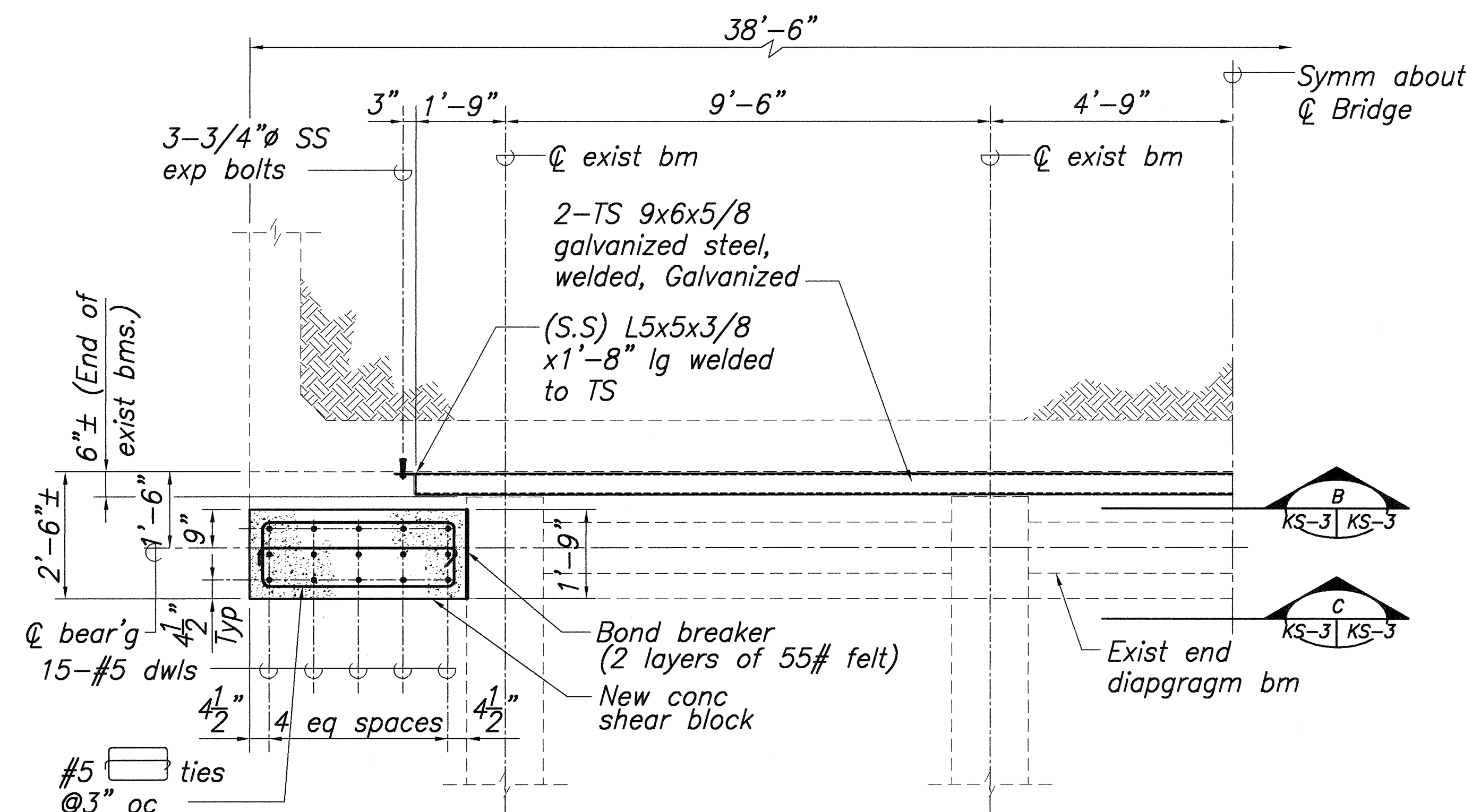
**KAUMOALII STREAM BRIDGE
PIER RETROFIT DETAILS**

SEISMIC RETROFIT OF VARIOUS BRIDGES
VICINITY OF NORTH OF PAAULO
FEDERAL AID PROJECT NO. BR-019-2(48)

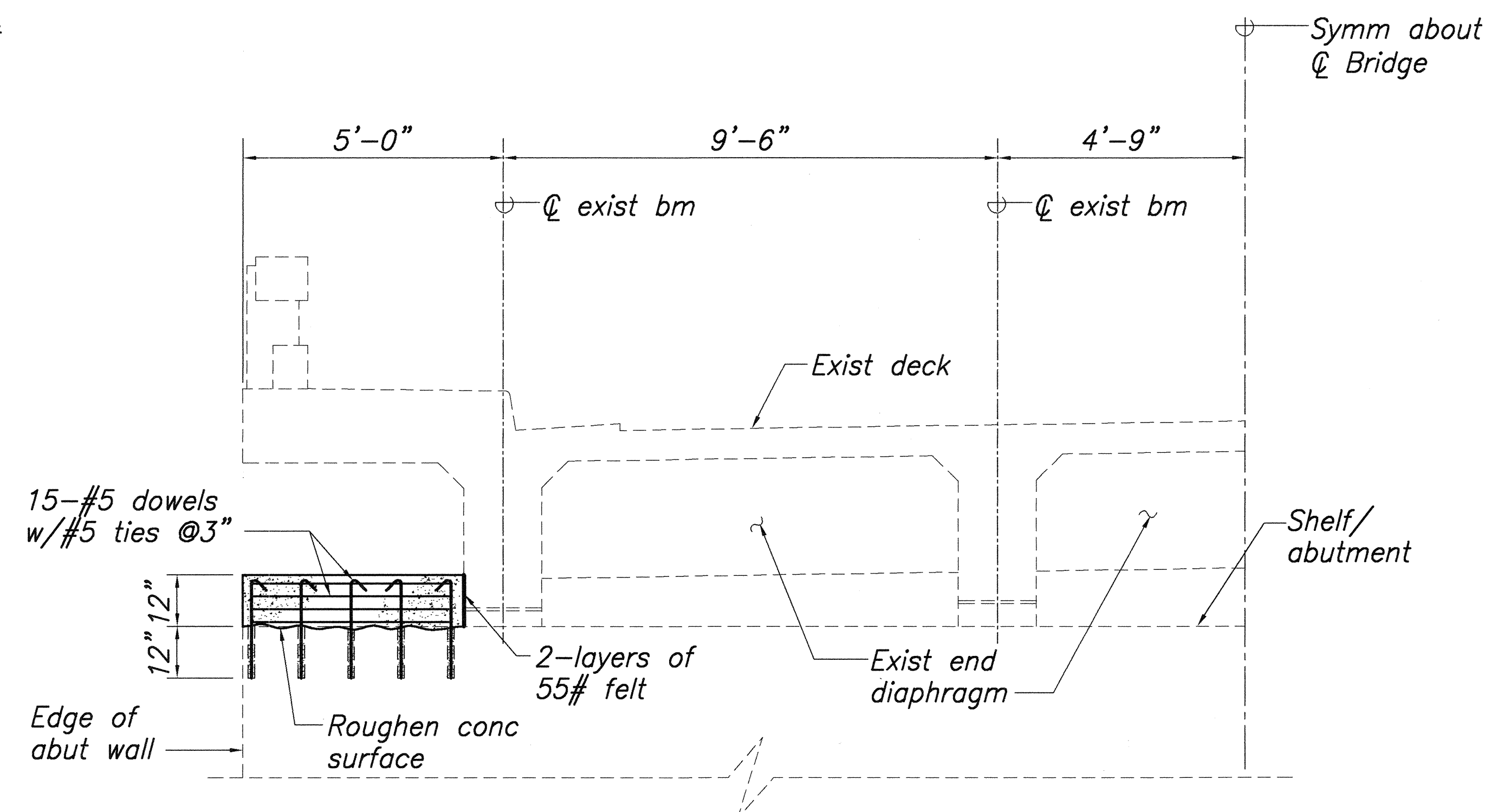
Date: August 16, 1999

SHEET No. KS-2 OF 15 SHEETS

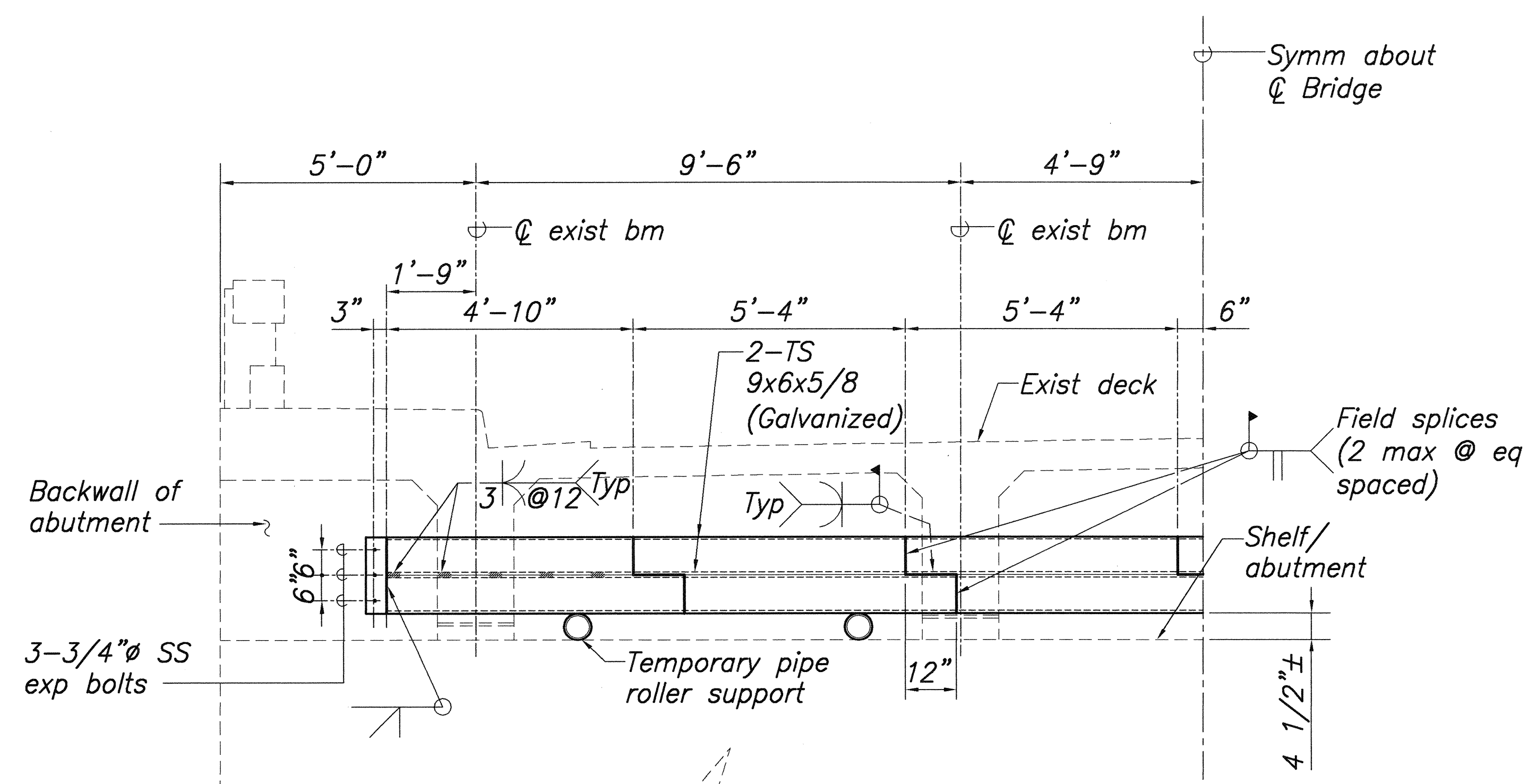
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-019-2(48)	1999	8	15



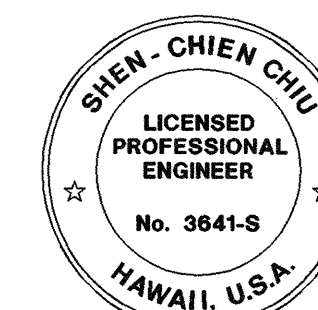
HALF PLAN, ABUTMENT #1 & #2 A
Scale: 1/2"=1'-0" KS-3 KS-3



HALF ELEVATION - NEW SHEAR BLOCK C
Scale: 1/2" = 1'-0" KS-3 | KS-3



HALF ELEVATION - END BLOCK B
Scale: 1/2"=1'-0" KS-3 | KS-3



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION

Shen-Chien Chiu

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

KAUMOALII STREAM BRIDGE
ABUTMENT NO.1 & 2
RETROFIT DETAILS

SEISMIC RETROFIT OF VARIOUS BRIDGES
VICINITY OF NORTH OF PAAULO
FEDERAL AID PROJECT NO. BR-019-2(48)

Date: *August 16, 1999*

SHEET No. KS-3 OF 15 SHEETS