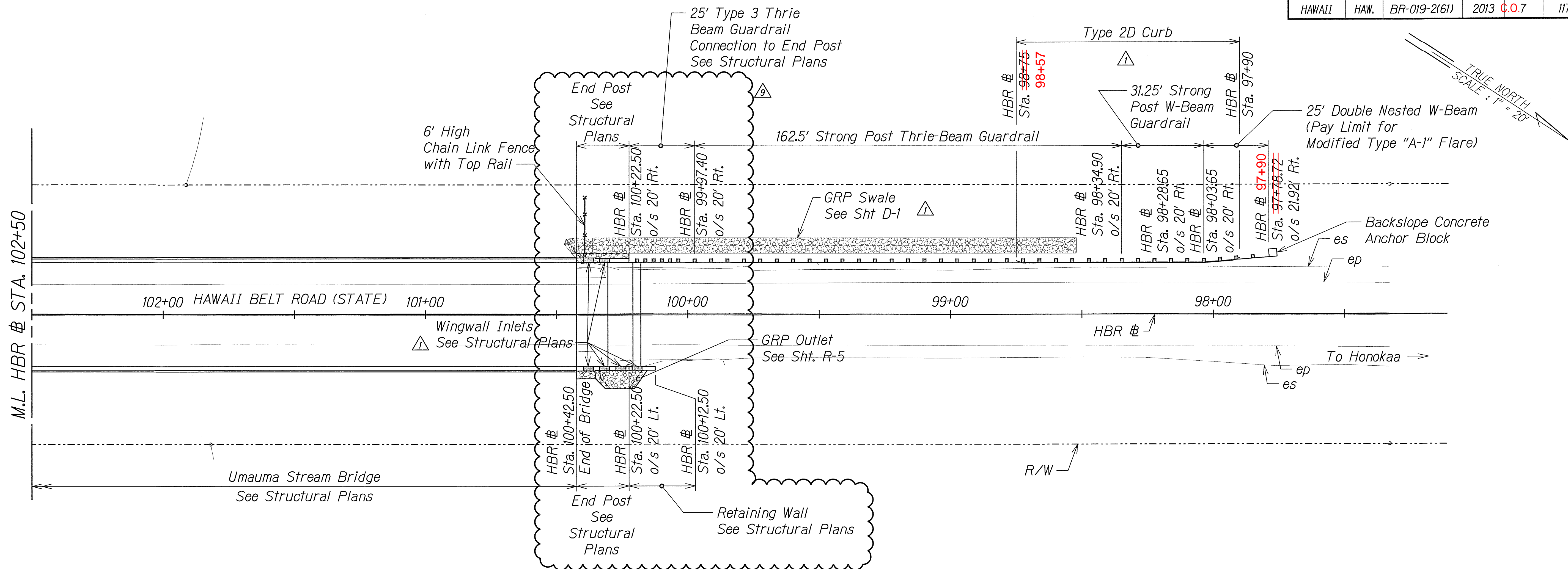


FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-019-2(61)	2013	C.O.7	117



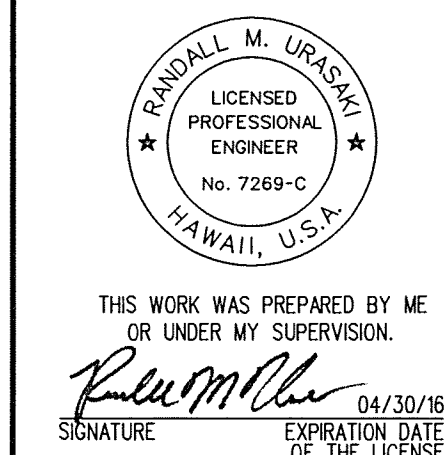
NOTES:

1. For Guardrail Details, See Shts. R-6 to R-10.
2. For Pavement Design, See Shts. R-3 to R-4.

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

T:\HDCC Umauma Bridge\Sheets\UMAUMA set rev 10/17/2013/Road-01.dgn

CCO#2



10/02/15	F02 Revisions
9/15/14	Added GRP Swale & Revised Guardrail and Wingwall Inlets
Date	Revision

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN - 1

HAWAII BELT ROAD
Rehabilitation of Umauma Stream Bridge
FAP NO. BR-019-2(61)

Scale: 1"=20'

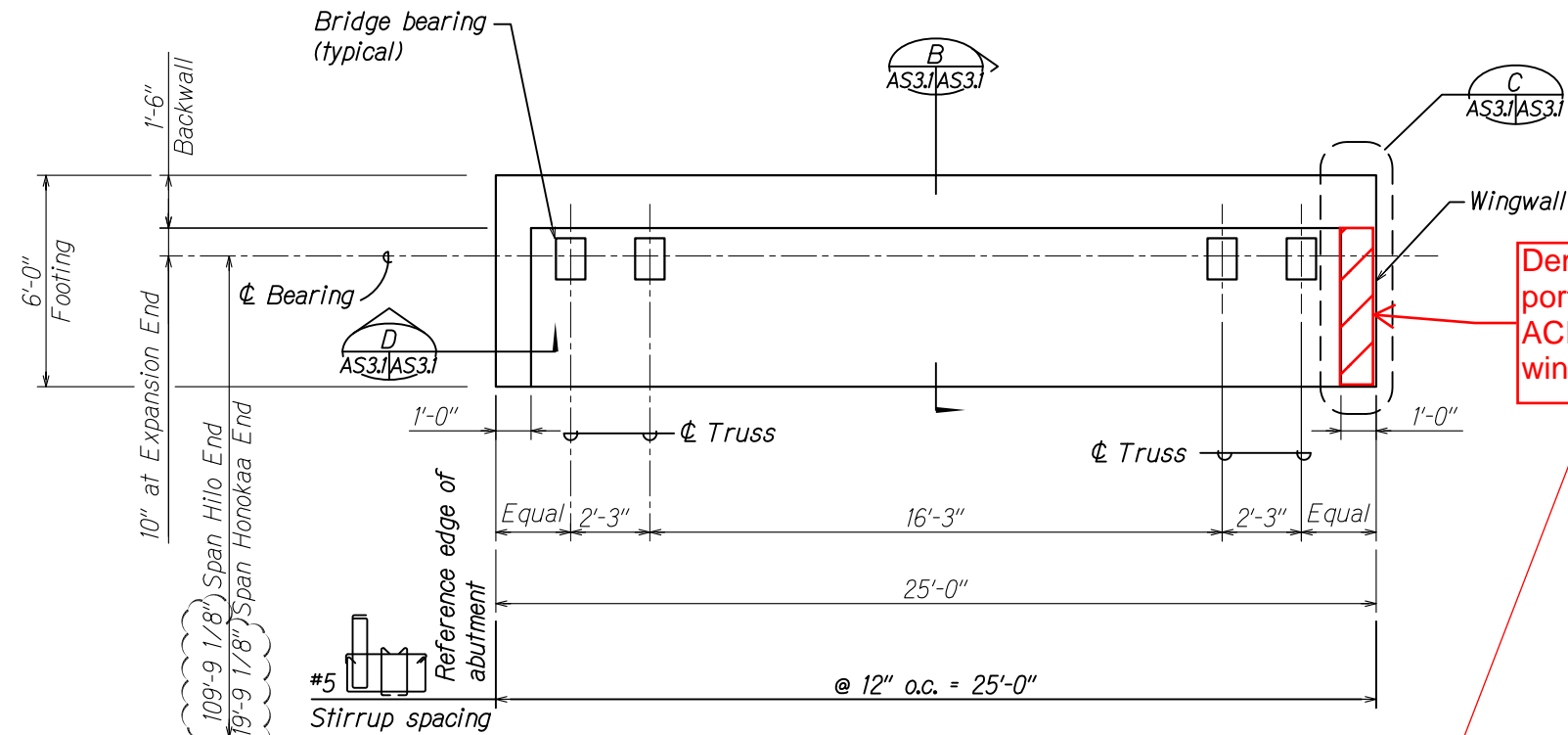
Date: July 15, 2014

SHEET No. R-1 OF 10 SHEETS

C.O.7

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-019-2(61)	2013	32	49

C.O. 8 S-1 117



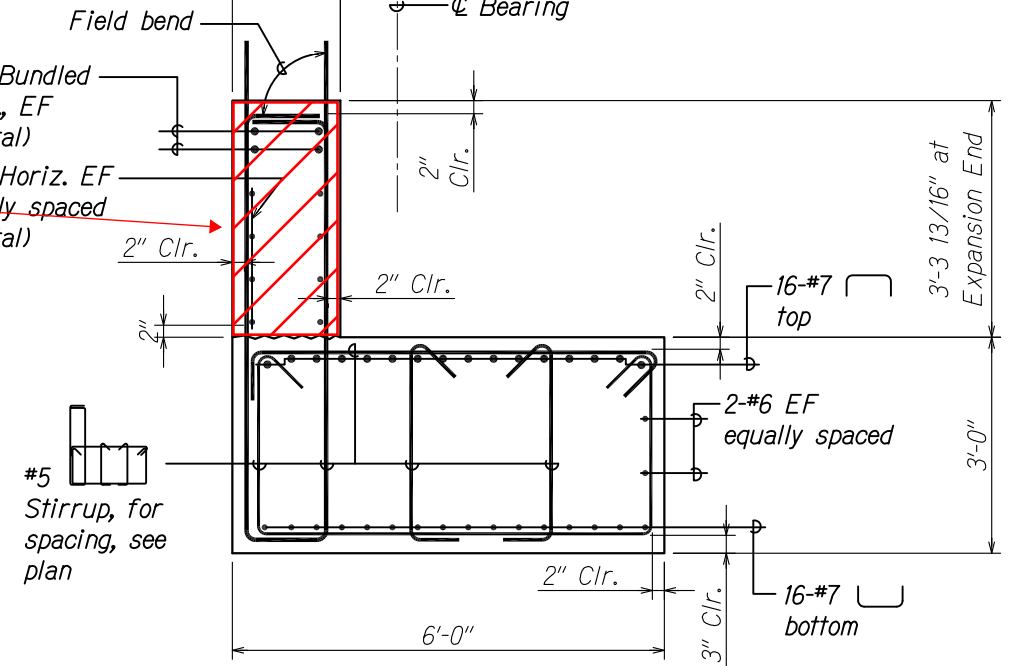
TYPICAL ABUTMENT LAYOUT

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

AS3.1/AS3.1

Demolish portion of ACROW wingwall

2-#6 Bundled horiz., EF (4 total)
4-#5 Horiz. EF equally spaced (8 total)

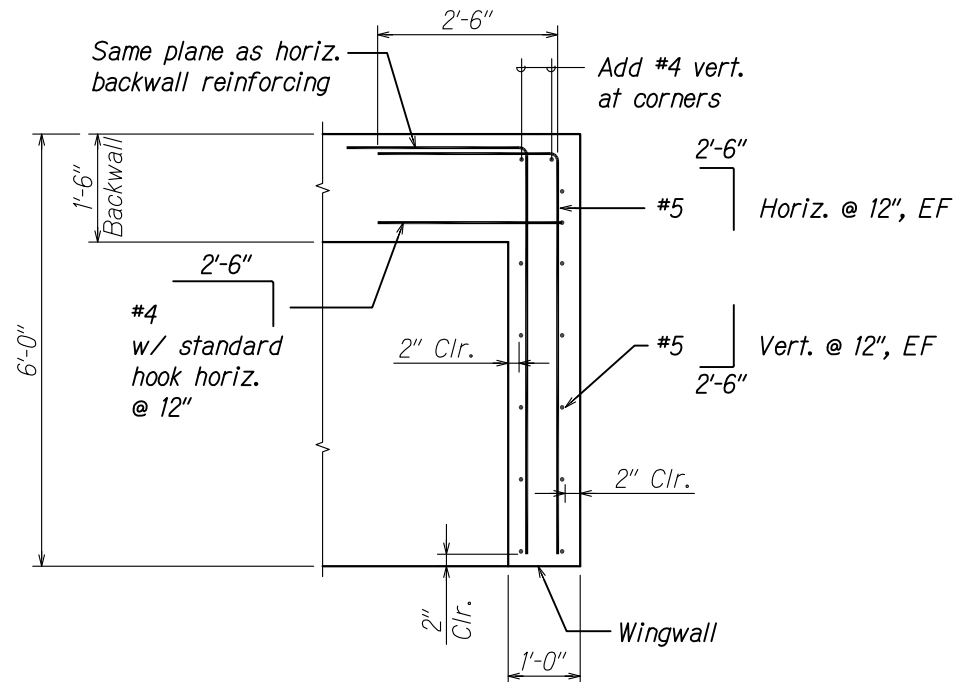


Note:
Horizontal bars extend to 2" clr. from reference edge of abutment.

SECTION

Scale: 3/4" = 1'-0"

AS3.1/AS3.1

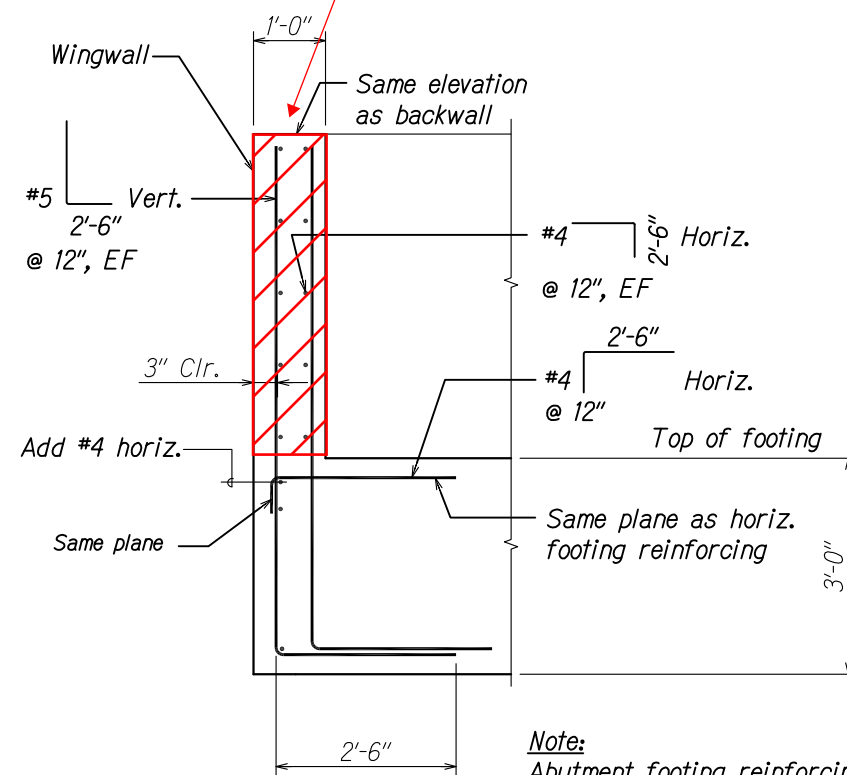


Note:
Backwall reinforcing not shown for clarity.

DETAIL PLAN OF WINGWALL

Scale: 3/4" = 1'-0"

AS3.1/AS3.1

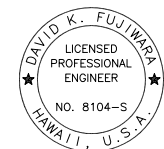


Note:
Abutment footing reinforcing not shown for clarity.

WINGWALL SECTION

Scale: 3/4" = 1'-0"

AS3.1/AS3.1



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

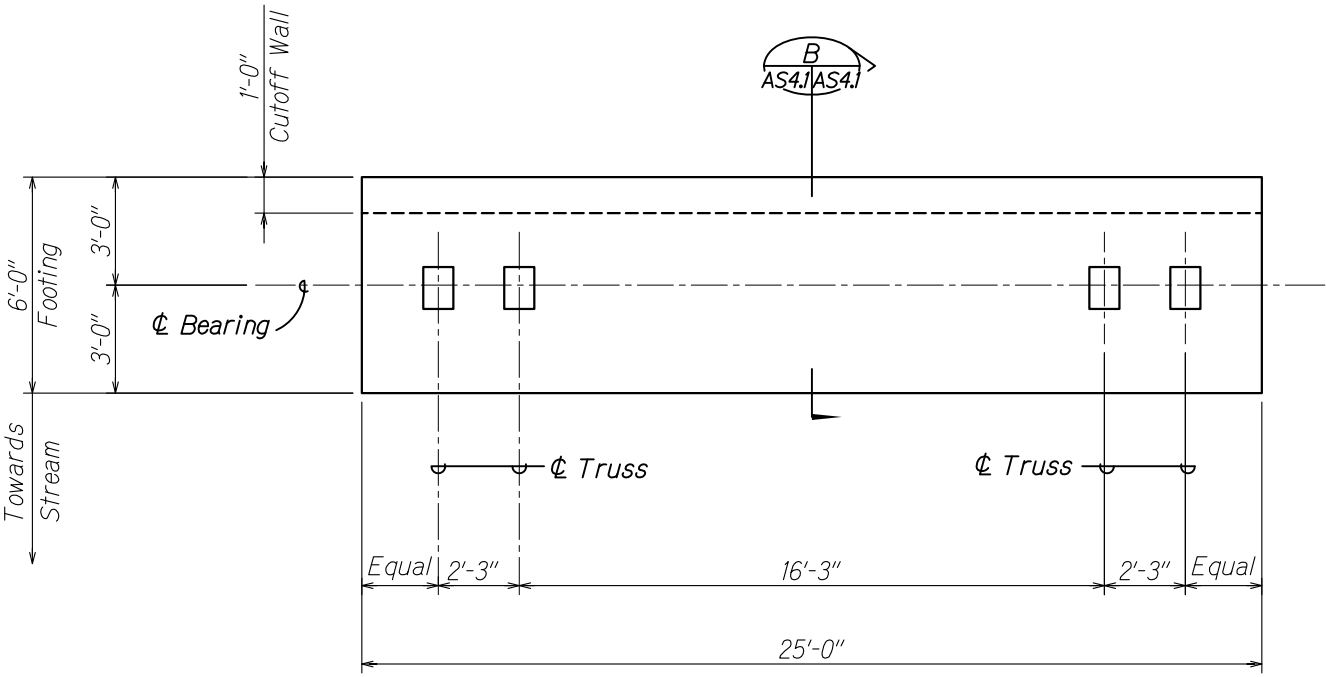
SIGNATURE EXPIRATION DATE OF THE LICENSE

DATE	REVISION
12/21/14	1 Coordination
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
ABUTMENT PLAN AND SECTIONS	
HAWAII BELT ROAD Rehabilitation of Umauma Stream Bridge Emergency Bypass Road Fed. Aid Proj. No. BR-019-2(61)	
Scale: As Noted	Date: Oct. 18, 2013
SHEET No. AS3.1 OF 10 SHEETS	

C.O. 8 S-1 32

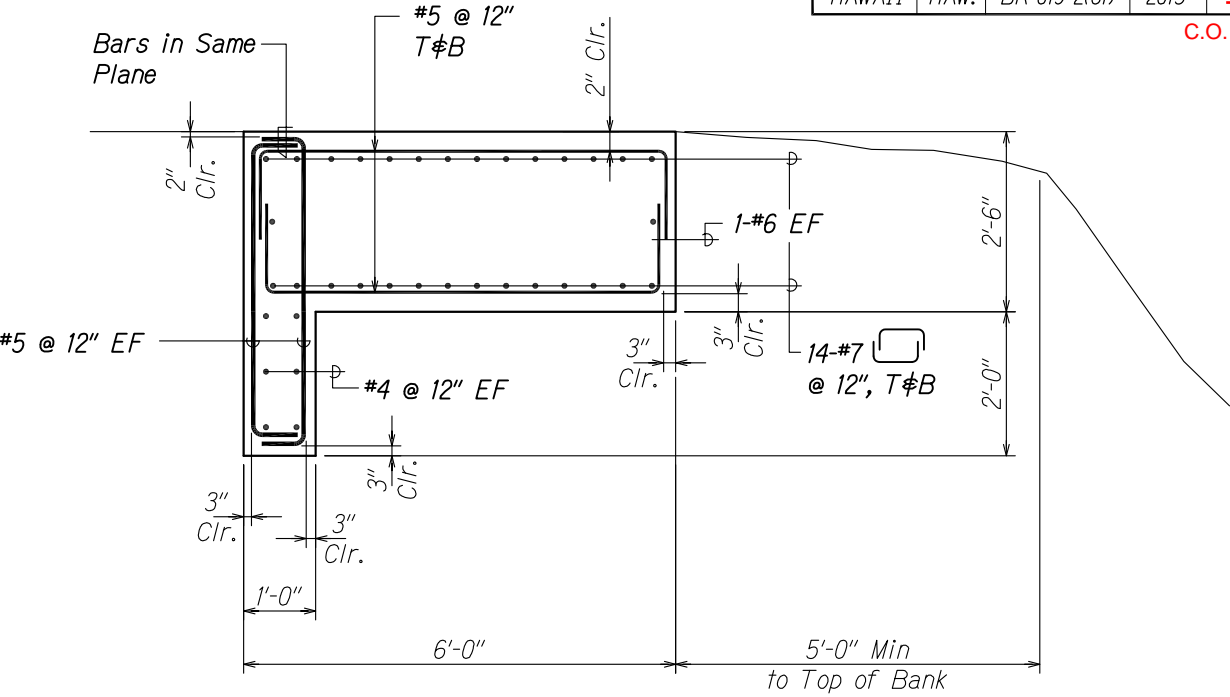
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-019-2(61)	2013	33	49

C.O. 8 S-2 117



TYPICAL LAUNCHING PAD LAYOUT

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



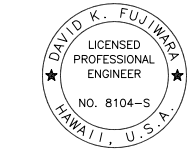
SECTION

Scale: 3/4" = 1'-0"



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

DRAWING NAME: Z:\DD ONGOING\12-041-UMAUMA STR BR\CAD\01-20-14\ACROW DELIA\USB-AS301-AS501.DWG PLOT TIME: 01-20-14, 11:30 AM



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
LAUNCHING PAD
PLAN AND SECTION
HAWAII BELT ROAD
Rehabilitation of Umauma Stream Bridge
Emergency Bypass Road
Fed. Aid Proj. No. BR-019-2(61)
Scale: As Noted Date: Oct. 18, 2013

SHEET No. AS4.1 OF 10 SHEETS