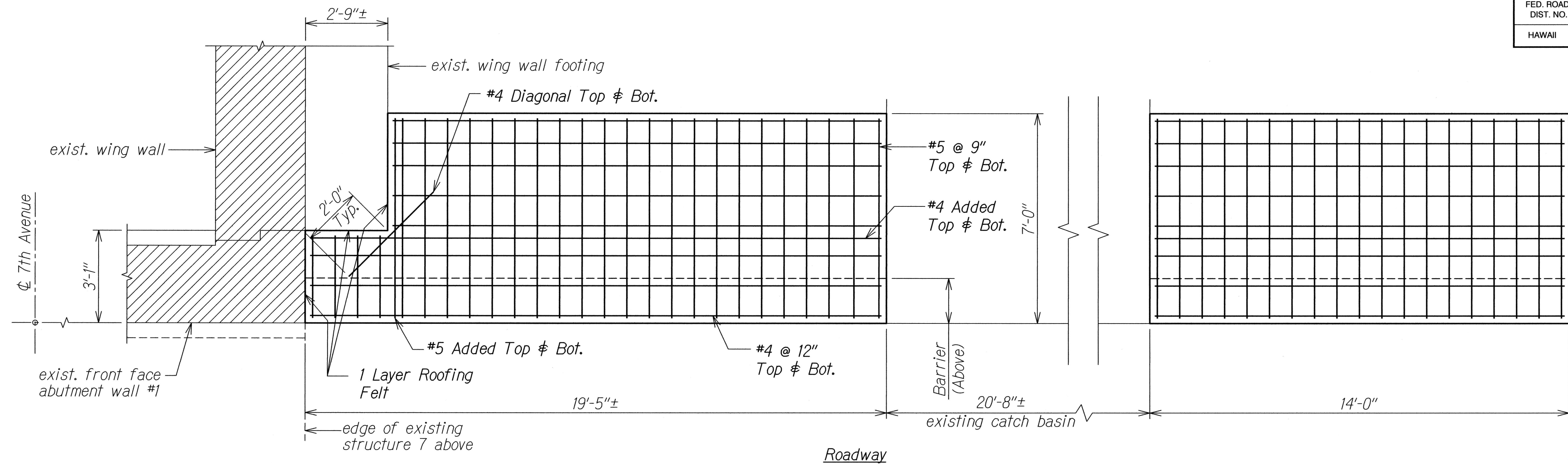
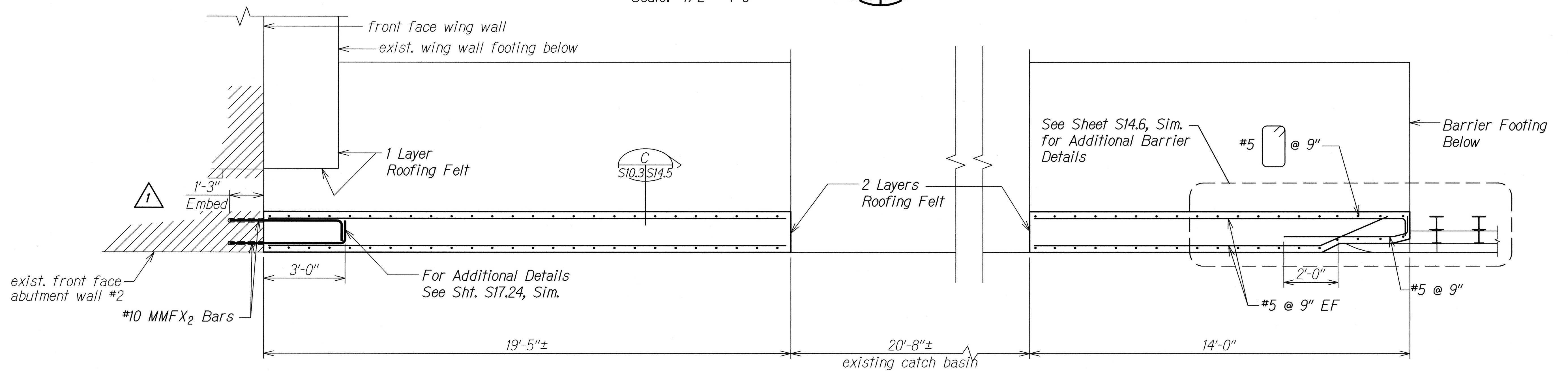


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1M-HI-1(244)	2017	ADD. 175	273



FOUNDATION PLAN A
Scale: 1/2" = 1'-0"
S10.3 S10.3



SECTION B
Scale: 1/2" = 1'-0"
S10.3 S10.3

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

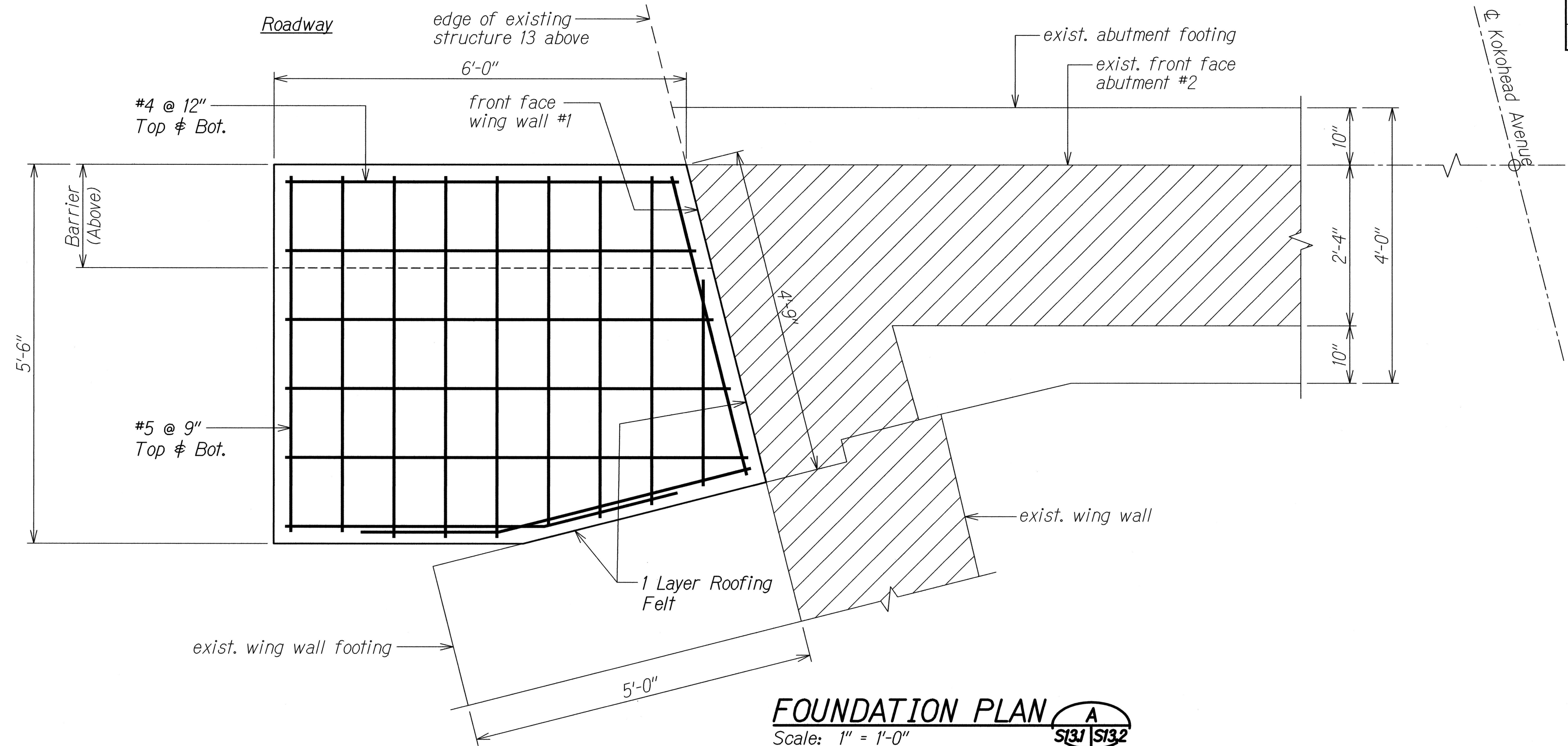
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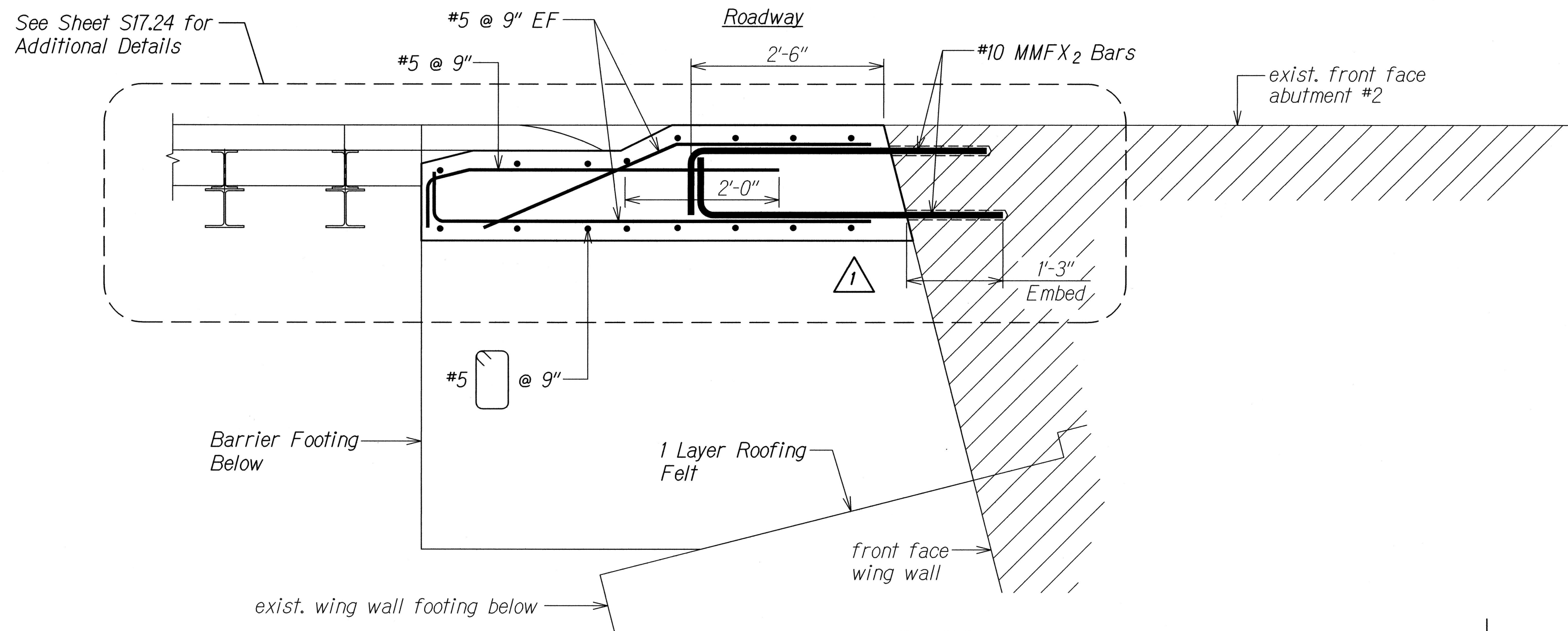
THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION.
KSF, INC. APRIL 30, 2018
LIC. EXP. DATE

11/14/17	1 Addendum 1
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION SITE 6 I.B. - RETROFIT GUARDRAIL CONNECTION FOUNDATION PLAN AND SECTION INTERSTATE ROUTE H-1 Guardrail and Shoulder Improvements, Kapoleli Interchange to Aiea Avenue Federal-Aid Project No. 1M-HI-1(244) Scale: As Shown Date: July 2017	
SHEET No. S10.3 OF 3 SHEETS	

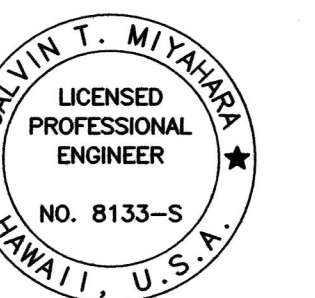
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(244)	2017	ADD. 189	273



FOUNDATION PLAN A
Scale: 1" = 1'-0"
S131 S132



SECTION B
Scale: 1" = 1'-0"
S132 S132



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Calvin T. Miyahara
KSF, INC. APRIL 30, 2018
LIC. EXP. DATE

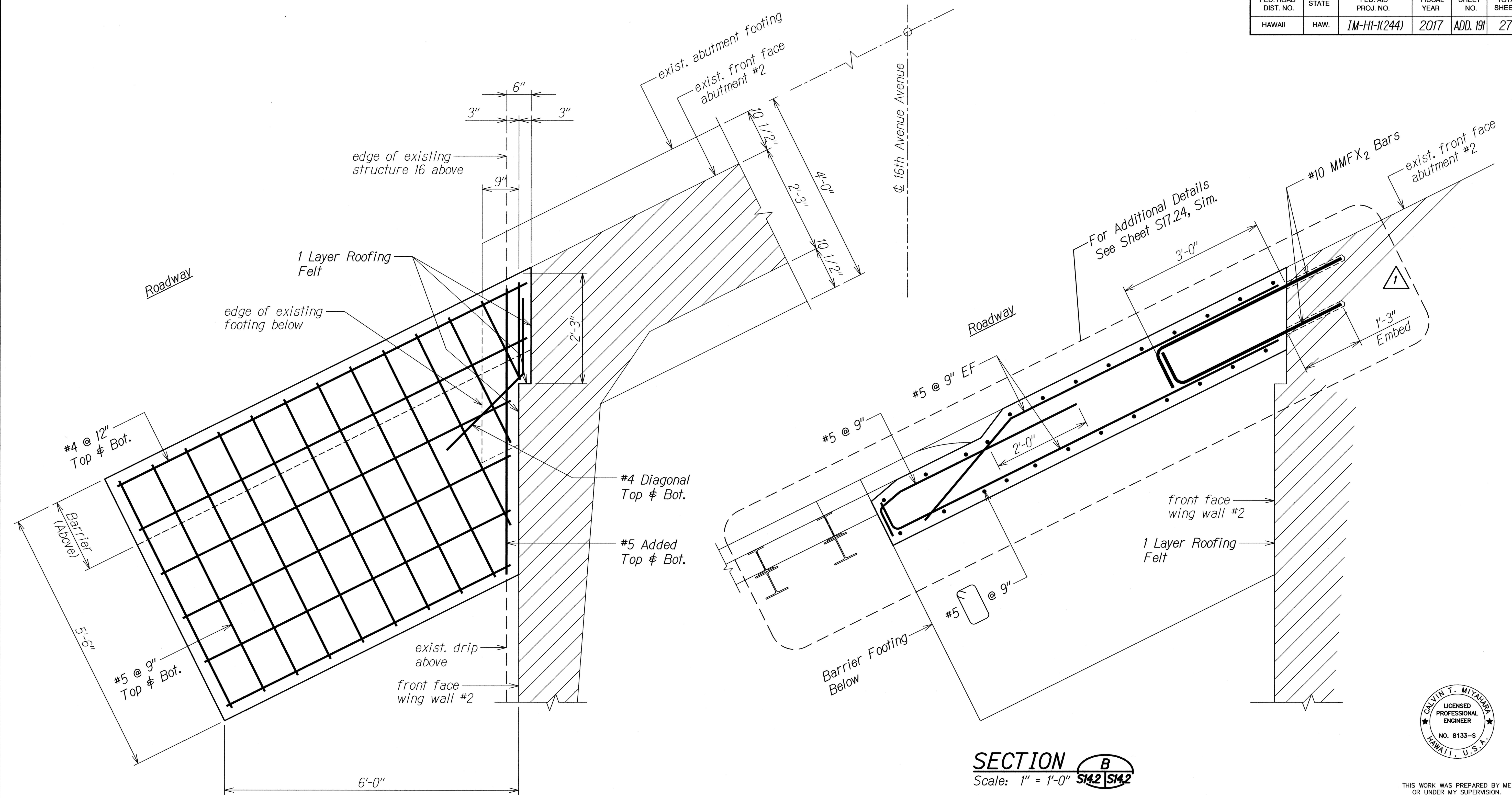
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
SITE 7 O.B. - RETROFIT GUARDRAIL CONNECTION
FOUNDATION PLAN AND SECTION
INTERSTATE ROUTE H-1
Guardrail and Shoulder Improvements,
Kapoleli Interchange to Aiea Avenue
Federal-Aid Project No. IM-HI-1(244)
Scale: As Shown Date: July 2017
SHEET No. **S132** OF **2** SHEETS

11/14/17	1	Addendum 1
DATE	REVISION	

SURVEY PLOTTED BY	DATE
DESIGNED BY	
NOTED BY	
QUANTITIES BY	
CHECKED BY	

DRAWING NAME: 21.00 OINGONG\50048-H1 BRIL KAPOLANI-HAWAII\01 CAD\11-14-17 ADD1\GKA-S1302 SITE 7 OB ADD.DWG PLOT TIME: 11-14-17, 3:10 PM

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(244)	2017	ADD. 191	273



FOUNDATION PLAN A
Scale: 1" = 1'-0" S142 S142

SECTION B
Scale: 1" = 1'-0" S142 S142



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Calvin T. Miyahara
KSP, INC. APRIL 30, 2018
LIC. EXP. DATE

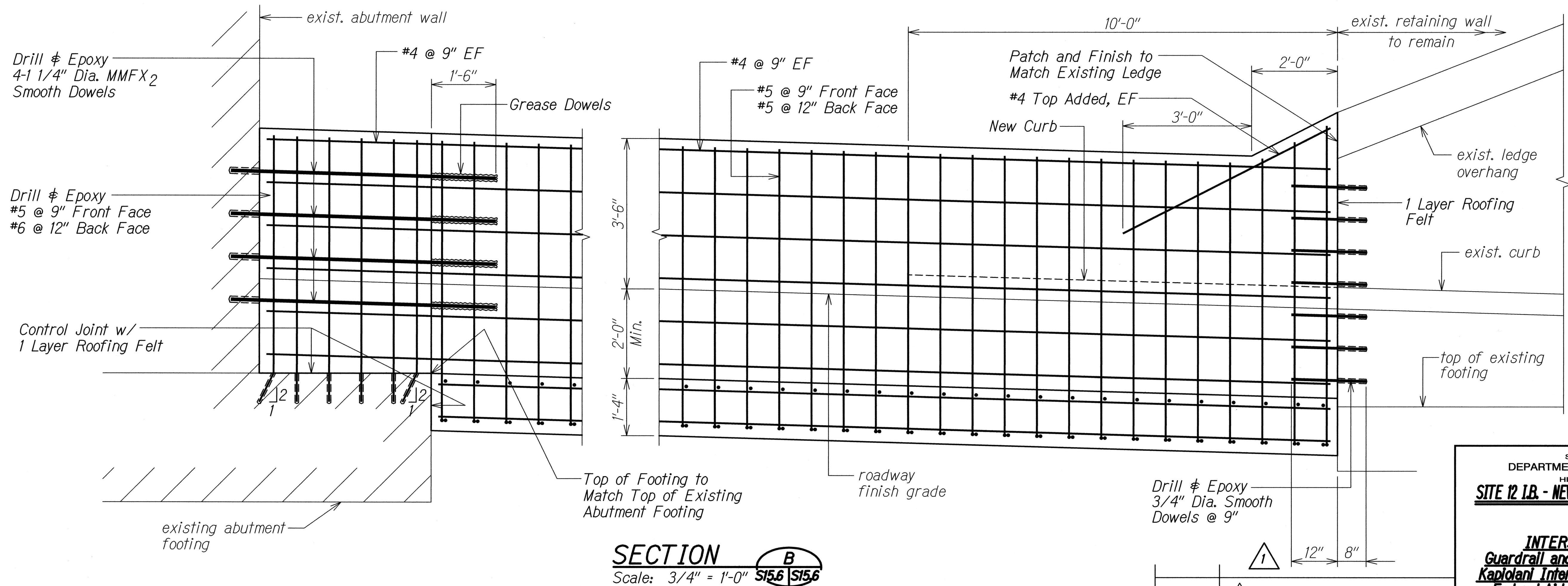
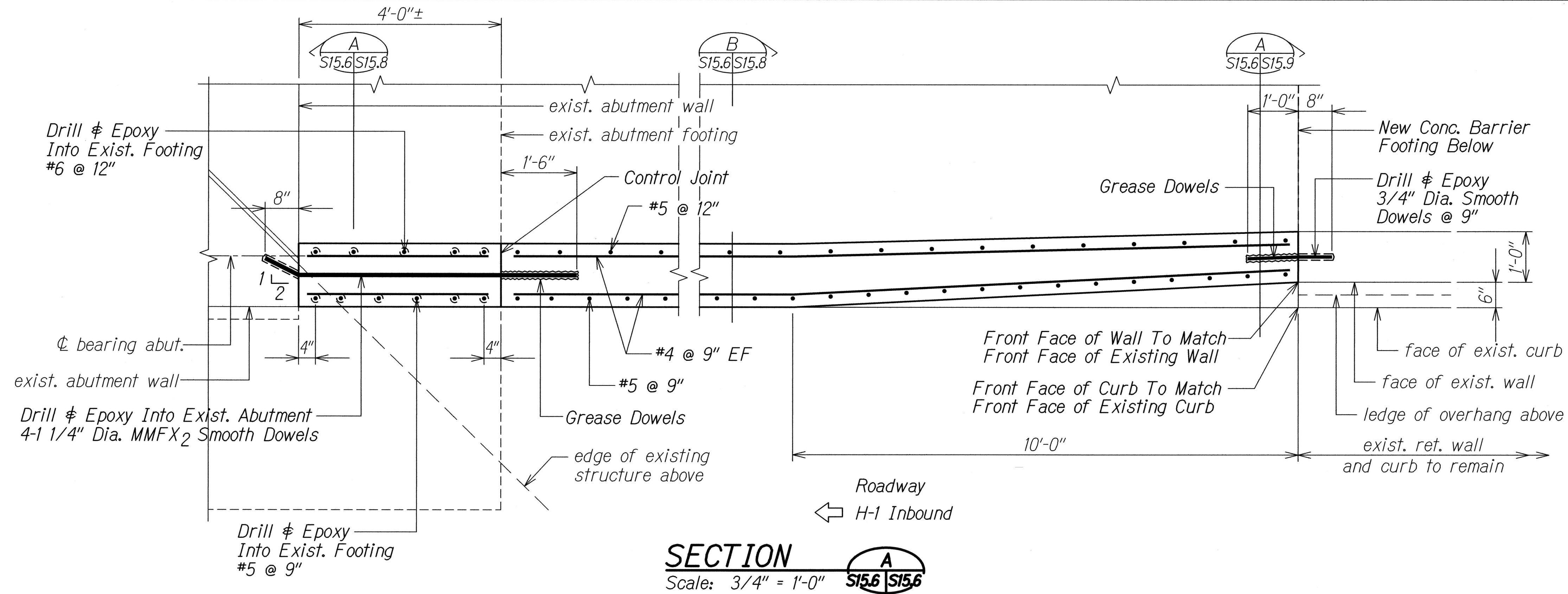
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
SITE 9 O.B. - RETROFIT GUARDRAIL CONNECTION
FOUNDATION PLAN AND SECTION
INTERSTATE ROUTE H-1
Guardrail and Shoulder Improvements,
Kapoleli Interchange to Aiea Avenue
Federal-Aid Project No. IM-HI-1(244)
Scale: As Shown Date: July 2017
SHEET NO. **S142** OF **6** SHEETS

11/14/17	1	Addendum 1
DATE	REVISION	

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

DRAWING NAME: Z:\00 ONGOING\50048-HI GRAL KAPOLELI-ANAKOA\01 CAD\11-14-17 ADD1\GKA-S1402 SITE 9 OB ADD1.DWG PLOT TIME: 11-14-17, 3:03 PM

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-K(244)	2017	ADD. 201	273



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KSF, INC. APRIL 30, 2018 LIC. EXP. DATE

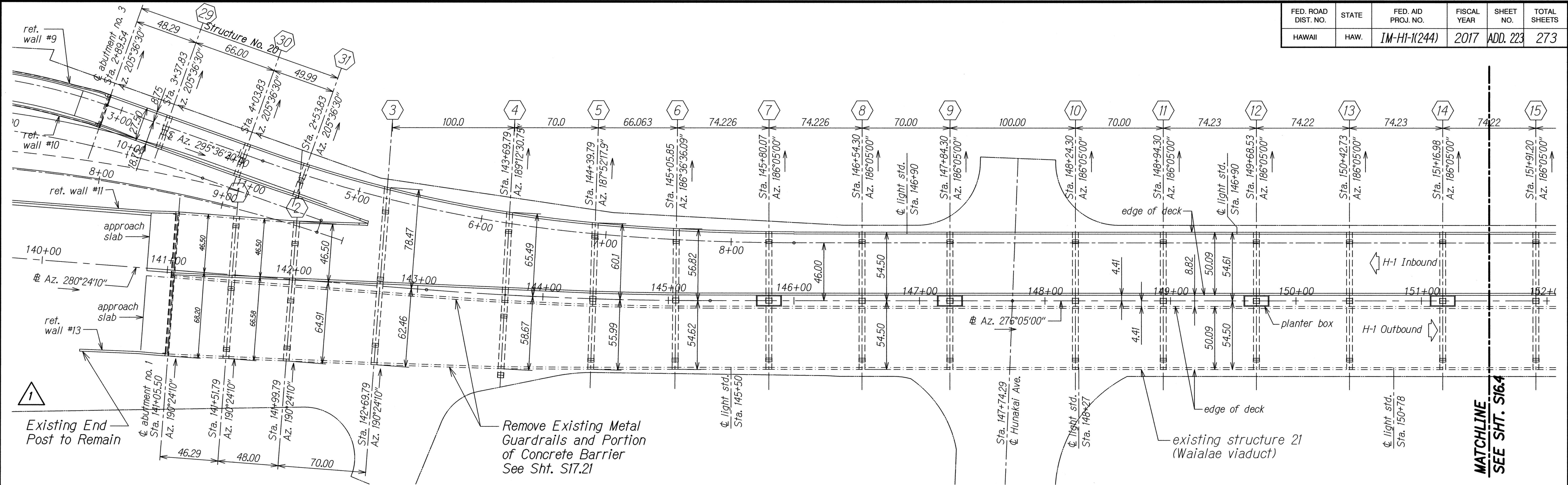
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
SITE 12 I.B. - NEW CONC. BARRIER & END POST
SECTIONS
INTERSTATE ROUTE H-1
Guardrail and Shoulder Improvements,
Kapolei Interchange to Aiea Avenue
Federal-Aid Project No. IM-H1-K(244)
Scale: As Shown Date: July 2017
SHEET No. **S15.6** OF **26** SHEETS

11/14/17	1	Addendum 1
DATE	REVISION	

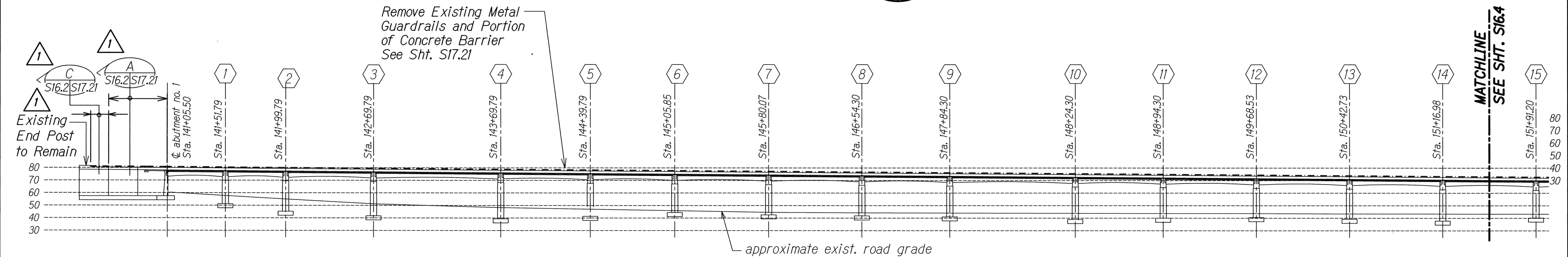
ORIGINAL PLAN	DATE
NOTE BOOK	
NO.	

DRAWING NAME: Z:\00 ONGOING\50048-H1 GRILL KAPOLEI-ANAKOA\01 CAD\11-14-17 ADD1\GKA-S1506 ADD1 & S1507.DWG PLOT TIME: 11-14-17, 3:05 PM

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1M-H1-K(244)	2017	ADD. 223	273



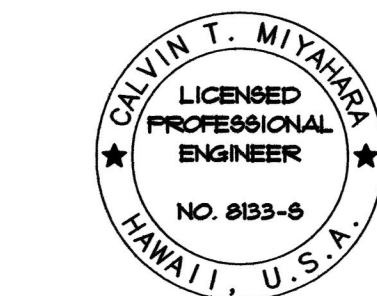
STRUCTURE 20 & 21 DEMO PLAN
Scale: 1" = 40'-0"



ELEVATION
Scale: 1" = 40'-0"

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	TRACED BY	
	QUANTITIES BY	
	CHECKED BY	

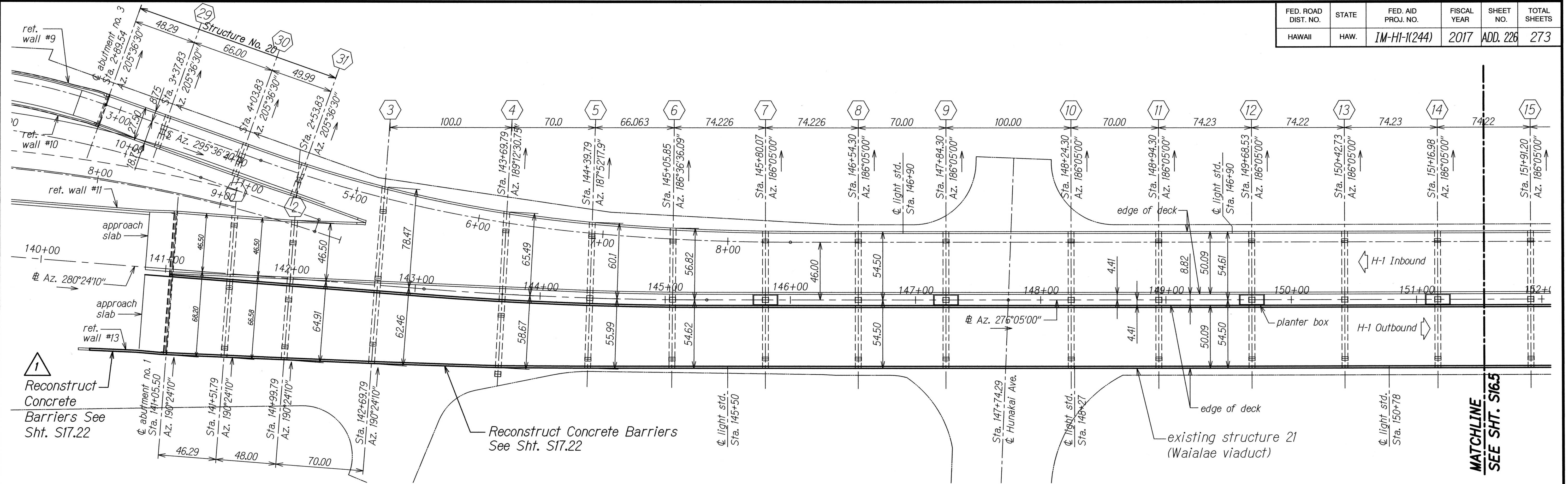
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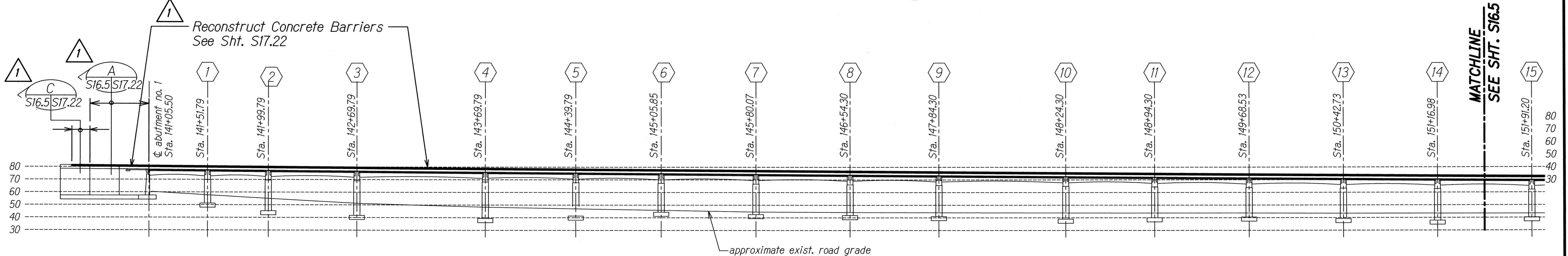
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KSF, INC. APRIL 30, 2018 LIC. EXP. DATE

11/14/17	1 Addendum 1
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION SITE 12 O.B. - UPGRADE RAILING AT STRUCT. 20 & 21 DEMO PLAN AND ELEVATION INTERSTATE ROUTE H-1 Guardrail and Shoulder Improvements, Kapolei Interchange to Alakoa Avenue Federal-Aid Project No. 1M-H1-K(244) Scale: As Shown Date: July 2017	
SHEET No. S162 OF 7 SHEETS	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(244)	2017	ADD. 226	273



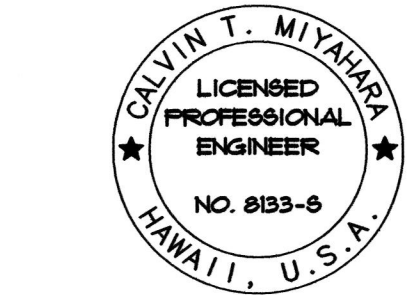
STRUCTURE 20 & 21 LAYOUT PLAN
 Scale: 1" = 40'-0"
 A
 S16.1 S16.5



ELEVATION
 Scale: 1" = 40'-0"
 B
 S16.1 S16.5

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

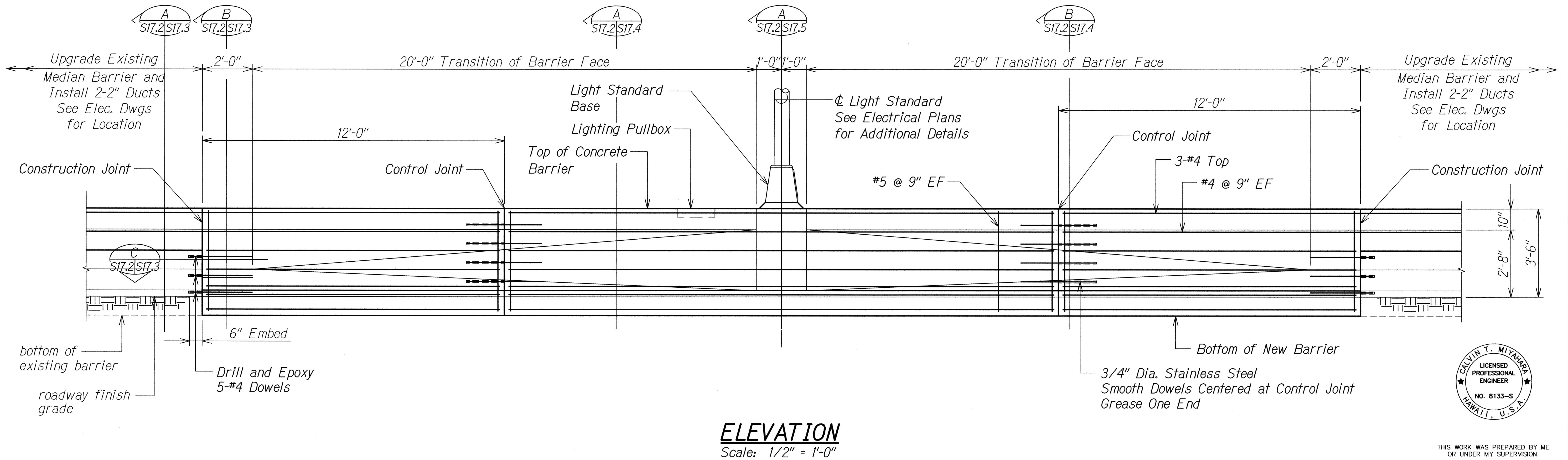
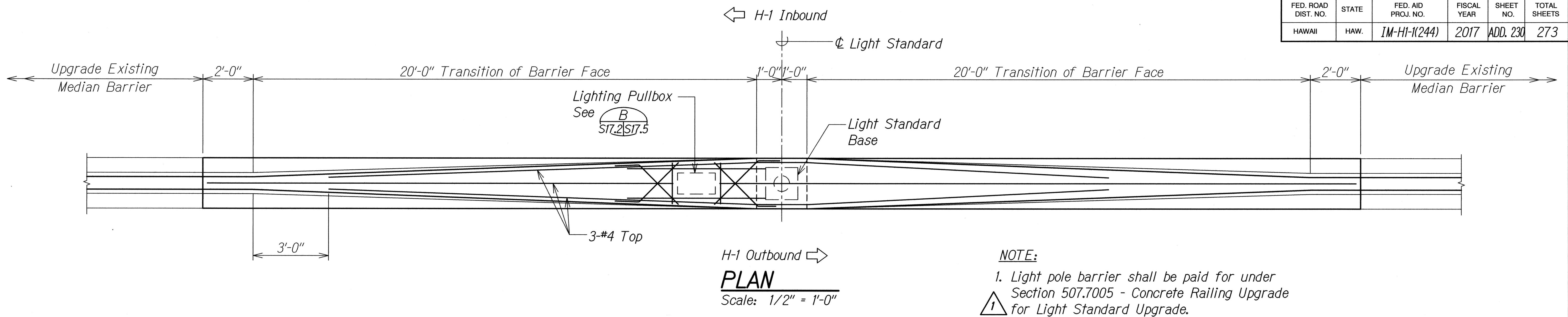
DRAWING NAME: 2:00 ONGOING 50048-H1 GRILL KAPOLANI-ANAKOIA-01 CAD\11-14-17 ADD1\GKA-S1605 ADD1 & S1606.DWG PLOT TIME: 11-14-17, 3:05 PM



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 KSF, INC. APRIL 30, 2018 U.C. EXP. DATE

11/14/17	1 Addendum 1
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION SITE 12 O.B. - UPGRADE RAILING AT STRUCT. 20 & 21 PLAN AND ELEVATION INTERSTATE ROUTE H-1 Guardrail and Shoulder Improvements Kapoleli Interchange to Alinako Avenue Federal-Aid Project No. IM-HI-1(244) Scale: As Shown Date: July 2017	
SHEET No. S16.5 OF 7 SHEETS	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(244)	2017	ADD. 230	273



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

DRAWING NAME: Z:\00 ONGOING\50048-H1 GRAB KAPOLANI-ANAKOA\01 CAD\11-14-17 ADD1\GK4-S1702 ADD1 -S1704.DWG PLOT TIME: 11-14-17, 3:05 PM



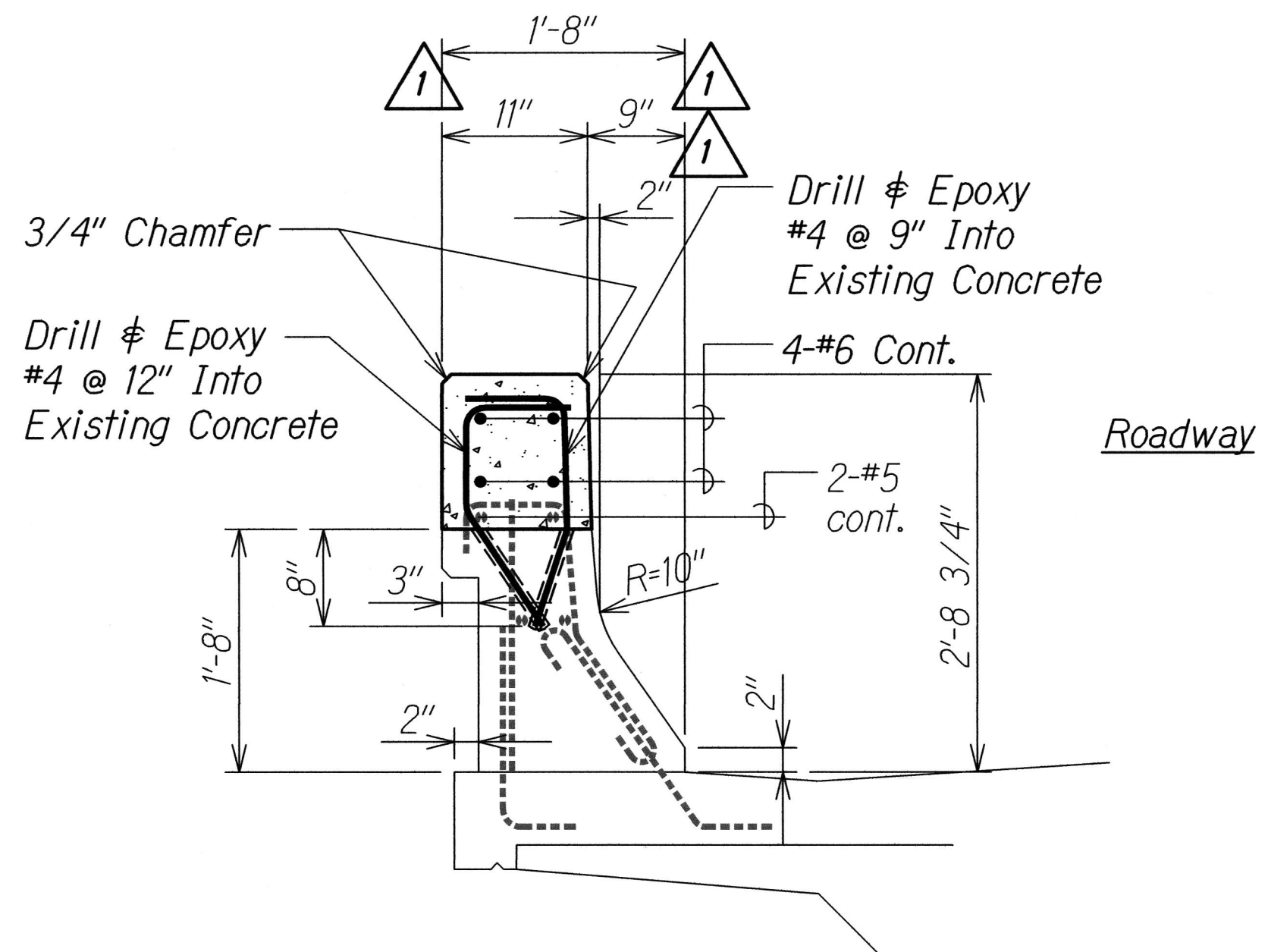
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KSF, INC. APRIL 30, 2018 U.C. EXP. DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**TYPICAL LIGHT POLE BARRIER
PLAN AND ELEVATION**
**INTERSTATE ROUTE H-1
Guardrail and Shoulder Improvements,
Kapoleli Interchange to Aiea Avenue
Federal-Aid Project No. IM-HI-1(244)**
Scale: As Shown Date: July 2017

11/14/17	1 Addendum 1
DATE	REVISION

SHEET No. **S172** OF **31** SHEETS

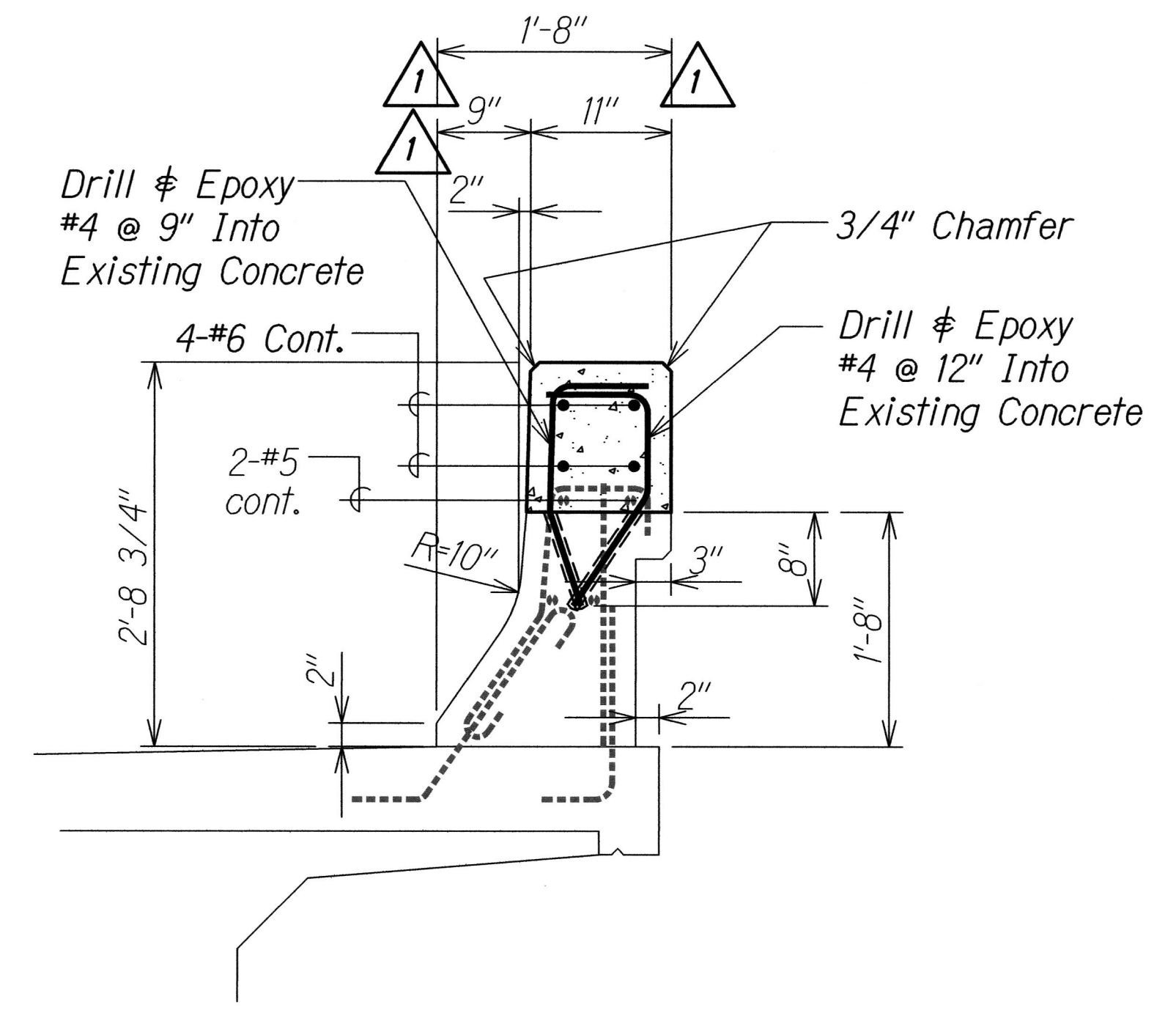
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(244)	2017	ADD. 250	273



**NORMAL SECTION AT EXTERIOR END
OF STRUCTURES NO. 20 & 21**

Scale: 1" = 1'-0"

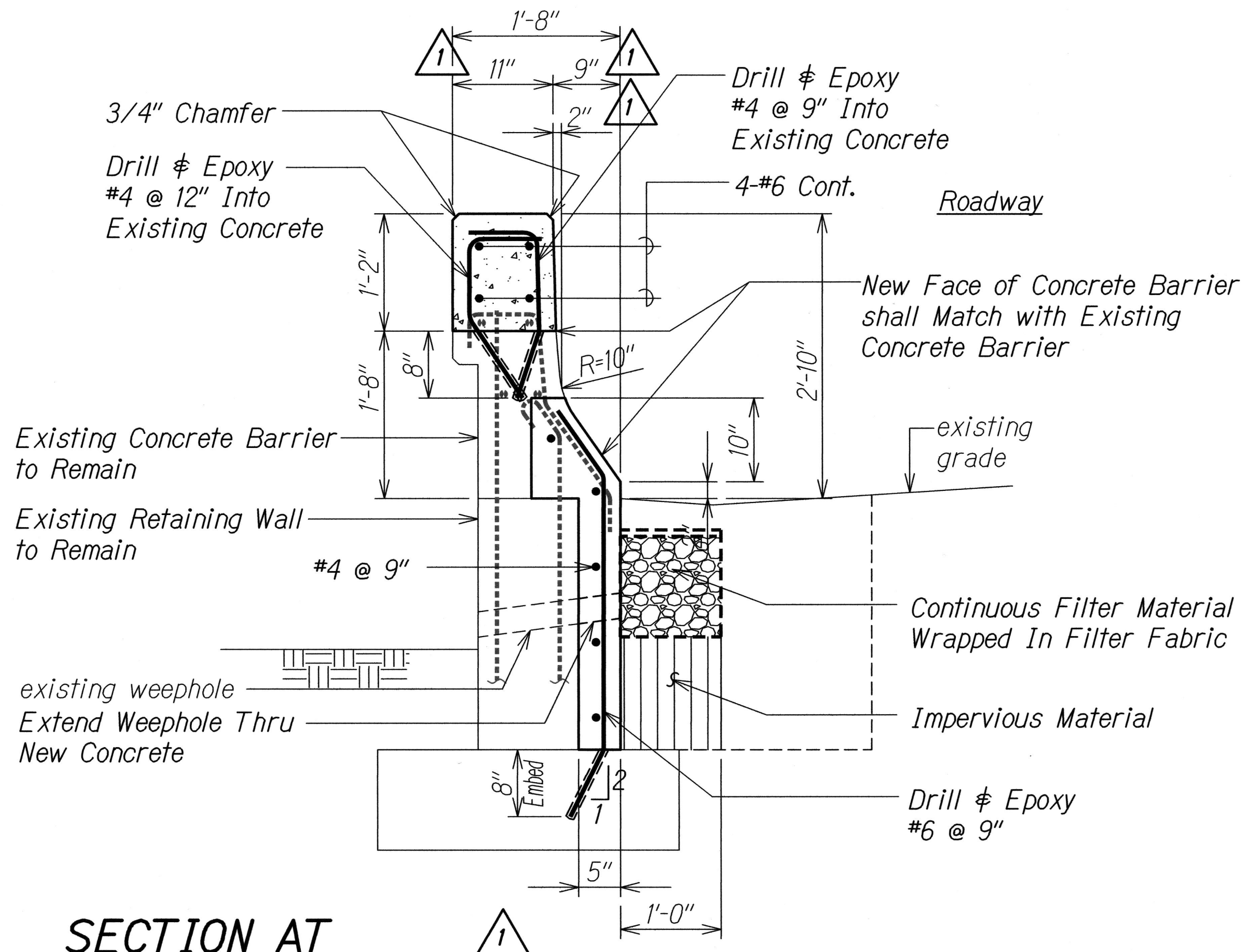
A
S15.22 S17.22
S16.5, S16.6



**NORMAL SECTION AT MEDIAN END
OF STRUCTURES NO. 20 & 21**

Scale: 1" = 1'-0"

B
S15.22 S17.22
S16.5, S16.6



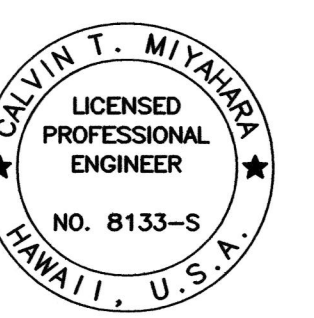
**SECTION AT
RETAINING WALLS 13, 15 AND 16**

Scale: 1" = 1'-0"

C
S15.24 S17.22
S16.5, S16.7

NOTES:

1. Top portion of barrier upgrade shall be paid for under Section 507 - Concrete Railing Upgrade for Bridges and Retaining Walls.
2. Lower portion shall be paid under Section 503 - Concrete for Barrier/Retaining Wall, Section 602 - Reinforcing Steel for Barrier/Retaining Wall, and Section 656 - Drilling Holes and Installing Dowel Reinforcing Bars for Retaining Walls.



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Calvin T. Miyakawa
KSF, INC. APRIL 30, 2018
LIC. EXP. DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**TYPICAL UPGRADE RAILING
SECTIONS**
**INTERSTATE ROUTE H-1
Guardrail and Shoulder Improvements,
Kapiolani Interchange to Alakoa Avenue
Federal-Aid Project No. IM-HI-1(244)**
Scale: As Shown Date: July 2017
SHEET No. **S17.22** OF **31** SHEETS

DATE	REVISION
11/14/17	1 Addendum 1