

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
KAUAI	HAW.	NH-056-1(50)	2019	C.O. ADD. 187	244

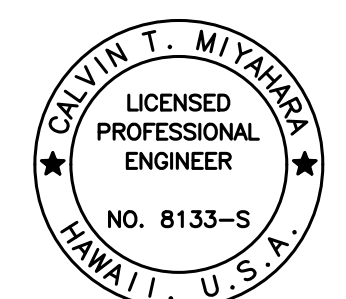
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ORIGINAL PLAN	SURVEY PLOTTED BY _____	DATE _____
NOTE BOOK	DRAWN BY _____	_____
	TRACED BY _____	_____
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	QUANTITIES BY _____	_____
No. _____	CHECKED BY _____	_____

DRAWING NAME: Z:\00 ONGOING\18-029.0-KUHO HWY KUAMOO ASB-WOC TM\01 CAD\07-02-24 ASB\KSI-S001 ADD1 ADD3 INDEX.DWG PLOT TIME: 07-01-24, 6:53 PM)

LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
400-00	Double line for as-built deletion
Roadway	Text for as-built posting

3/26/21	 C.O. Added & deleted sheets
6/10/20	 New Sheet - RFI 009
11/12/19	 Reissuing plan for legibility only. No design changes have been made.
9/20/19	 Reissuing plan for legibility only. No design changes have been made.
DATE	REVISION



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Calvin Mijne
4-30-20
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

INDEX OF STRUCTURAL DRAWINGS

**KUHIO HIGHWAY SHORT-TERM
IMPROVEMENTS KUAMOO ROAD
TO TEMPORARY KAPAA BYPASS ROAD**
Fed. Aid Proj. No. NH-056-1(50)

Scale: None Date: July 2019

SHEET No. 501 OF 6 SHEETS

"AS-BUILT"

C.O. ADD. 187

STRUCTURAL GENERAL NOTES

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
KAUAI	HAW.	NH-056-1(50)	2019	ADD. 188	244

1. General Specifications: Hawaii Department of Transportation (HDOT), Standard Specifications for Road and Bridge Construction, 2005, together with Special Provisions prepared for this contract.
2. Design Specifications:
- (A) AASHTO 2017 LRFD Bridge Design Specifications (Eighth Edition) and its subsequent interim specifications with interim supplements and modifications by the HDOT Highways Division.
- (B) State of Hawaii Department of Transportation Highways Division "Design Criteria for Bridges and Structures" dated August 8, 2014, with all interim supplements and modifications by the HDOT Highways Division.
- (C) Temporary shoring and falsework shall follow the AASHTO Guide Design Specification for Bridge Temporary Works.
3. Loads:
- (A) Live Load: HL93 Loading
- (B) Railing Test Level: TL-2

4. Materials:
- (A) All concrete strengths shall be as noted below:
- | Item No. | Structural Parts | Classes of Concrete | Compressive Strength, f'c (28 Days) |
|----------|---|---------------------|-------------------------------------|
| (1) | Box Culvert, Retaining Walls, and Headwalls | - | 5,000 psi |
| (2) | Except as noted otherwise, all others | - | 4,000 psi |
- All concrete shall have a maximum W/C Ratio of 0.45.
- (B) Concrete shall contain 15 lbs./yd³ of Cemfil Anti-crack HP 67/36 Alkali Resistant Glass Fiber or equivalent.
- (C) The use of any calcium chloride in any concrete is prohibited.
- (D) A migrating corrosion inhibitor amine carboxylate water-based admixture shall be added to the concrete mix for concrete on bridge. The minimum dosage shall be 1.5 pints per cubic yard of concrete. The admixture shall not affect the set time of the concrete.
- (E) All reinforcing steel shall be ASTM A 615 deformed bars Grade 60 unless otherwise noted.
- (F) Reinforcing steel shall be ASTM A 706 where welded connections are required.
- (G) All structural steel shall be ASTM A 36, hot dip galvanized after fabrication, unless otherwise noted.
- (H) All anchor bolts, washers and nuts shall be ASTM A325 hot dip galvanized after fabrication, unless otherwise specified.

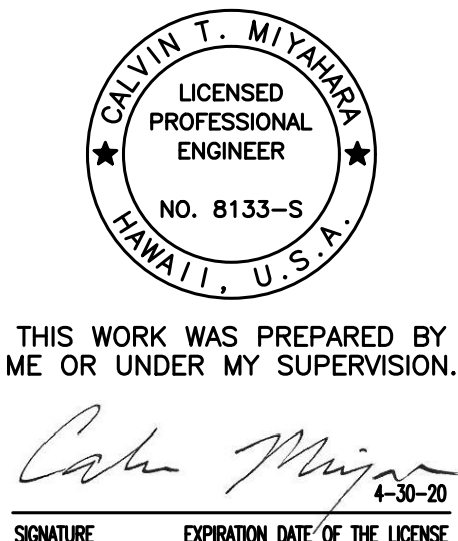
4. Materials (Cont.):
- (J) All welding shall conform to AWS D1.5 Bridge Welding Code. All welds shall be ground smooth. Unless noted otherwise, all welding shall be shielded arc welding done with E70 electrodes.
- (K) All stainless steel shall be duplex stainless steel Type 2205 with a minimum yield strength of 65 ksi and minimum tensile strength of 95 ksi.
5. Reinforcement:
- (A) The covering measured from the surface of the concrete to the face of any reinforcing bars shall be as follows, except as otherwise shown:
- (1) Concrete cast against and permanently exposed to earth = 3"
- (2) All others unless otherwise noted = 2".
- (B) Reinforcing bars shall be installed in accordance with the Concrete Reinforcing Steel Institute "Manual of Standard Practice" unless otherwise noted.
- (C) Minimum clear spacing between parallel bars shall be 1 1/2 times the diameter of bars (for non bundled bars). In no case shall the clear distance between the bars be less than 1 1/2 times the maximum size of the coarse aggregate or 1 1/2".
- (D) All dimensions relating to reinforcing bars are to centers of bars unless otherwise noted.
- (E) Reinforcing bars shall be securely tied at all intersections and lap splices except where the spacing of intersections is less than one foot in each direction, in which case alternate intersections shall be tied.

6. Construction Notes:
- (A) The Contractor shall verify all dimensions and site conditions and shall report any discrepancies in writing to the Engineer before commencing work or ordering materials.
- (B) The Contractor shall verify all site conditions and not rely upon these plans for existing, dimensions, elevations and azimuths, stream channel location, roads, roadway gutters, curbs and sidewalks, etc.. Conditions may differ from those shown.
- (C) The Contractor shall be solely responsible for the protection of adjacent properties, utilities and existing and new structures from damage due to construction. Repairing any damage shall be at the Contractor's own expense, to the satisfaction of the Engineer.
- (D) The Contractor shall verify the location of all utility lines and notify the respective owners before commencing with excavation, and any temporary piling or sheeting.
- (E) All shoring, temporary embankments, temporary structures, etc. shall be capable of supporting the design loads as stated in the Structural General Notes. The drawings and calculations shall be stamped by a licensed Structural Engineer and a licensed Civil Engineer specializing in Geotechnical engineering in the State of Hawai'i. The above work, including working drawings and calculations, shall be incidental to various contract items. The drawings and calculations shall be found acceptable by the Engineer before any construction work is to proceed.

6. Construction Notes (Cont.):
- (F) Except as otherwise noted, all vertical dimensions are measured plumb.
- (G) For concrete finish see Standard Specifications and Special Provisions.
- (H) Construction joints may be relocated or additional ones added subject to the approval of the Engineer.
- (J) Unless otherwise noted, all exposed concrete edges shall be chamfered 3/4" x 3/4".
- (K) Contractor shall unplug, clean and maintain existing drains during construction of the project.
- (L) When only portions of concrete are to be demolished. The intersections between the demolished concrete and the concrete that is to remain shall have a 3/4 inch deep sawcut around the entire perimeter of the demolished area.
- (M) The concrete surfaces which new concrete is poured against shall be roughened to a full amplitude of 1/4 inch and cleaned, unless otherwise noted.
- (N) All existing reinforcing shall remain in place and shall not be damaged in any way unless otherwise noted.
- (P) All existing reinforcing that is to remain in place shall have a minimum concrete cover of 2".
- (Q) Pavement, concrete, riprap, etc. shall be restored to its original condition when it is removed to install new items of work.
- (R) New concrete surfaces shall match the finish of the existing structure. Any reveals, patterns, or decorative features shall also match the existing structure.
- (S) Existing weepholes shall be extended through new concrete where applicable. New weephole shall be coupled to the existing weephole and form a watertight connection.

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

DRAWING NAME: Z:\00 DISCONSING\18-029.0-KUHIO HWY KUAMOO ASB-WOC.TIA.01 CAD\07-02-24 ASER KSI-5002 ADD1 GENNOTE ADD1 ADD3.DWG PLOT TIME: 07-01-24, 6:03 PM



11/12/19	3	Reissuing plan for legibility only. No design changes have been made.
9/20/19	1	Reissuing plan for legibility only. No design changes have been made.
DATE	REVISION	
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION		
STRUCTURAL GENERAL NOTES		
KUHIO HIGHWAY SHORT-TERM IMPROVEMENTS KUAMOO ROAD TO TEMPORARY KAPAA BYPASS ROAD Fed. Aid Proj. No. NH-056-1(50)		
Scale: None	Date: July 2019	
SHEET No. S02 OF 6 SHEETS		

STRUCTURAL GENERAL NOTES

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
KAUAI	HAW.	NH-056-1(50)	2019	ADD. 189	244

7. Foundation:

(A) Retaining Walls and Headwalls

(1) Active Earth Pressures

- (a) Active Lateral Earth Pressure
(Level Backfill) = 40 Pounds
per Foot (PCF) Equivalent Fluid Pressure

(2) Bearing Capacity

- (a) Extreme Event Limit State = 9,000 Pounds
per Square Foot (PSF)
- (b) Strength Limit State = 4,500 PSF
- (c) Service Limit State = 3,000 PSF

(3) Friction Factor

- (a) Extreme Event Limit State = 0.55
- (b) Strength Limit State = 0.44

(4) Passive Earth Resistance

- (a) Extreme Event Limit State = 250 PCF
(Level Backfill)
- (b) Strength Limit State = 125 PCF
(Level Backfill)

(B) Box Culvert

(1) At-Rest Earth Pressures

- (a) At-Rest Lateral Earth Pressure
(Level Backfill) = 56 PSF

(2) Bearing Capacity

- (a) Extreme Event Limit State = 6,000 Pounds
per Square Foot (PSF)
- (b) Strength Limit State = 2,700 PSF
- (c) Service Limit State = 2,000 PSF

(3) Friction Factor

- (a) Extreme Event Limit State = 0.55
- (b) Strength Limit State = 0.44

7. Foundation (Cont.):

(4) Passive Earth Resistance

- (a) Extreme Event Limit State = 250 PCF
(Level Backfill)
- (b) Strength Limit State = 125 PCF
(Level Backfill)

(C) For additional geotechnical information see geotechnical
engineering exploration report by Geolabs dated 10/1/2009.

8. General:

- (A) All items noted incidental will not be paid for separately.
- (B) Standard Plans refer to all structures in general, except for
modifications as may be required for special conditions. For
such modifications refer to the corresponding detailed drawings.

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

DRAWING NAME: Z:\00 DCONING\18-029.0-KUHIO HWY KUAMOO ASB-WOC TIA 01 CAD\07-02-24 ASB\KSI-5003 ADD1 GENNOTE ADD1 ADD3.DWG PLOT TIME: 07-01-24, 6:03 PM



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11/12/19	3	Reissuing plan for legibility only. No design changes have been made.
9/20/19	1	Reissuing plan for legibility only. No design changes have been made.
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STRUCTURAL GENERAL NOTES

KUHIO HIGHWAY SHORT-TERM
IMPROVEMENTS KUAMOO ROAD
TO TEMPORARY KAPAA BYPASS ROAD
Fed. Aid Proj. No. NH-056-1(50)

Scale: None Date: July 2019

SHEET No. 50.3 OF 6 SHEETS

DRAWING NAME: Z:\00 DDC\0018-029.0-KUHIO HWY KUAMOO ASB-WOC TWA.01 CAD\07-02-24 ASB\KSI-S004 SYM&ABBR ADD1 ADD3.DWG PLOT TIME: 07-01-24, 5:59 PM

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		DESIGNED BY	_____
		CHECKED BY	_____
NOTE BOOK	No.	QUANTITIES BY	_____
		_____	_____

SYMBOLS AND ABBREVIATIONS										FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
										KAUAI	HAW.	NH-056-1(50)	2019	ADD. 190	244
⌘	And	Dia.	Diameter	GFRP	Glass Fiber Reinforced	PC	Point of Curvature	Struct.	Structure						
@	At	Diaph.	Diaphragm		Polymer Rebar	PCF	Pounds per Cubic Foot	SE	Super Elevation						
∅	Diameter	Dim.	Dimension	Gr.	Grade	P(e)	Effective Prestress Force	Symm.	Symmetrical						
≥	Greater Than or Equal to	Dist.	Distance	Grd.	Ground		After All Losses								
≤	Less Than or Equal to	DO	Ditto	GRP	Grouted Rubble Pavement	PPM	Parts Per Million								
#	Number	Dwls.	Dowels	Ht.	Height	PSF	Pounds per Square Foot	Tan.	Tangent						
		Dn.	Down	(H)	Hinge	PSI, psi	Pounds per Square Inch	TC	Continuity Tendons						
Abut.	Abutment	Dbl.	Double	Horiz., H	Horizontal	PLF	Pounds per Linear Foot	Temp.	Temporary						
Abbr.	Abbreviation	DI	Drain Inlet, Ductile Iron	HDOT	State of Hawaii Department of Transportation	PI	Point of Intersection of Tangents	TD	Deck Tendon						
Add.	Additional	Dwg., Dwgs.	Drawing, Drawings			PIVC	Point of Intersection of Vertical Curve	Thk.	Thick						
Alt.	Alternate	DS	Drilled Shaft	HDPE	High Density Polyethylene		Point of Tangency	T	Top						
AB	Anchor Bolt			HS	High strength	PT	Point of Tangency	T⌘B	Top and Bottom						
AC	Asphaltic Concrete	E	East	HECO	Hawaiian Electric Company	Pt., Pts.	Point, Points	TCE	Top of Column (and Bent Cap Soffit) Elevation						
Approx.	Approximate	EB	East Bound			PRC	Point of Reverse Curvature	TOD	Top of Deck						
Az.	Azimuth	EA, Ea., ea.	Each	IB	Inbound	PVC	Polyvinyl Chloride	TOP	Top of Pier						
		EF	Each Face	In.	Inch	Prestr.	Prestressed	TFE	Top of Footing Elevation						
Bk.	Back	EFH	Each Face Horizontal	ID	Inside Diameter	P/S	Prestressed Strands	Tot.	Total						
Bal.	Balance	EFV	Each Face Vertical	IF	Inside Face	PB	Pull Box	Transv.	Transverse						
Ⓕ	Baseline	EW	Each Way	Int.	Interior	Rad., R	Radius	TS	Structural Tubing						
Bm.	Beam	EPE	Existing Edge of Pavement	Inv.	Invert	RF	Rear Face	TSS	Tendon For Girder in Simply Supported Condition						
Brg., Brgs.	Bearing, Bearings	EPS	Expanded Polystyrene	Jt.	Joint	Rebar	Reinforcing Bar	Typ.	Typical						
BVC	Beginning of Vertical Curve	ES	Edge of Shoulder	K	Kips	Ref.	Reference								
Bet.	Between	Elec.	Electrical	KF	Kip Foot	Reinf.	Reinforced, Reinforcing, Reinforcement	Undergrd.	Underground						
BF	Both Faces	EMH	Electrical Manhole	KSF	Kips Per Square Foot										
BW	Both Ways	El., Elev.	Elevation	KSI	Kips Per Square Inch	Req'd.	Required	Var.	Varies						
BFE	Bottom of Footing Elevation	Emb.	Embankment	KLF	Kips Per Linear Foot	Ret.	Retaining	Vert., V	Vertical						
Bot., Bott., B	Bottom	EVC	End of Vertical Curve	L	Length	ROW	Right of Way	VC	Vertical Curve						
BOF	Bottom of Footing	Eq.	Equal	lb., lbs., LBS.	Pound, Pounds	Rdwy.	Roadway	VESLMC	Very Early Strength Latex Modified Concrete						
Br.	Bridge	Est.	Estimated	Ltg. Std.	Lighting Standard										
Blt.	Bolt	Exc.	Excavation	LF, Lin. Ft.	Linear Feet/Foot	Sect.	Section	W/C	Water/Cement						
		Excl.	Excluding	LS	Lump Sum	SRW	Segmental Retaining Wall	w/	With						
Cant.	Cantilever	Exist., Ex.	Existing	Longit.	Longitudinal	Sht.	Sheet	W	West						
CIP	Cast Iron Pipe	Exp., (E)	Expansion	M	Modified	Sim.	Similar	WB	West Bound						
Ⓒ	Center line	EJ	Expansion Joint	MH	Manhole	Sl.	Slope	WWF	Welded Wire Fabric						
CG	Center of Gravity	Ext.	Exterior	Max.	Maximum	S	South	WW	Wingwall						
cc	Center to Center	(F)	Fixed	Mech.	Mechanical	Spc., Spg.	Spaces, Spacing	WP	Work Point, Working Point						
CFCW	Continuous Flashing Compound	FA	Force account	Min.	Minimum	Sprd.	Spread	WS	Water Surface						
	Waterproofing	FB	Flat Bar	Misc.	Miscellaneous	Spec.	Specification								
Cl.	Class	FC	Compression Stresses	MPH	Miles Per Hour	SF	Square Feet								
Clr.	Clearance	f'c	Specified Compressive Strength of Concrete at 28 days	NF	Near Face	SY	Square Yard								
CO	Clean Out	f'ci	Specified Compressive Strength of Concrete at Time of Initial Prestress	N	North	SS	Stainless Steel	Yr.	Year						
Col.	Column			NIC	Not in Contract	Std.	Standard								
Conc.	Concrete			No.	Number	Sta.	Station								
CBW	Concrete Barrier Wall			NTS	Not to Scale	Stiff.	Stiffener								
CMU	Concrete Masonry Unit					Stirr.	Stirrup								
Conn.	Connection	FF	Far Face. Front Face			Stl.	Steel								
Const.	Construction	Fig.	Figure			Str.	Straight								
CJ	Construction Joint	Fin. Gr.	Finish Grade												
Cntl. Jt.	Control Joint	FRP	Fiberglass Reinforced Plastic												
CLSM	Controlled Low Strength Material	FT	Tensile Stresses												
		Ftg.	Footing												
Cont.	Continuous	Ft.	Feet, Foot												
CSL	Crosshole Sonic Log														
CF	Cubic Feet	Ga.	Gage, Gauge												
CY, Cu. Yd.	Cubic Yard	Galv.	Galvanized												
		G, Gir.	Girder	Perf.	Perforated										
		GDI	Grated Drain Inlet	PL	Plate										
Det.	Detail			PCC	Portland Cement Concrete										

CARVIN T. MIYAHARA
LICENSED
PROFESSIONAL
ENGINEER
NO. 8133-S
HAWAII, U.S.A.

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9/20/19	1	Reissuing plan for legibility only. No design changes have been made.
DATE	REVISION	

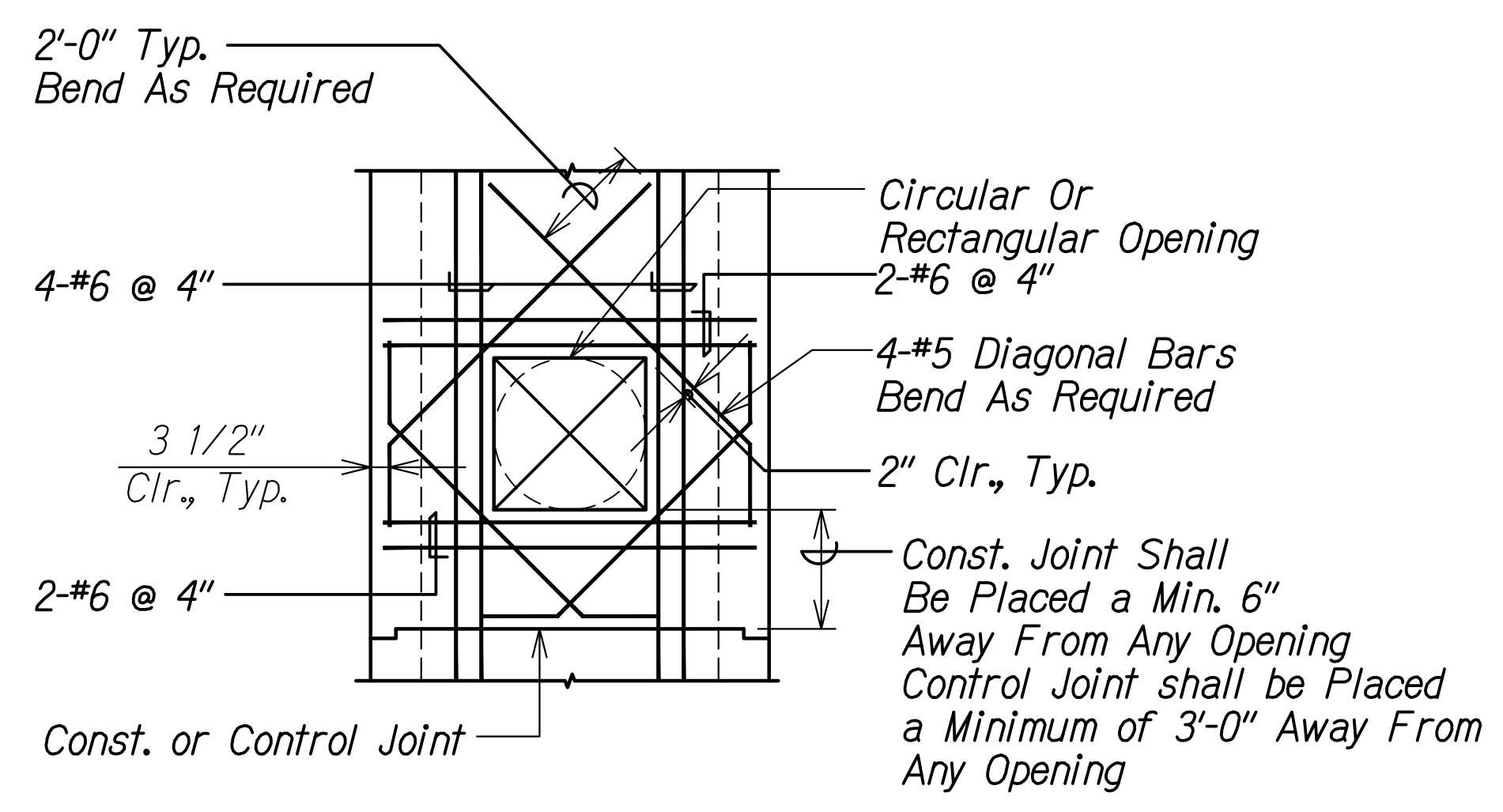
SHEET NO. 50.4 OF 6 SHEETS		
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

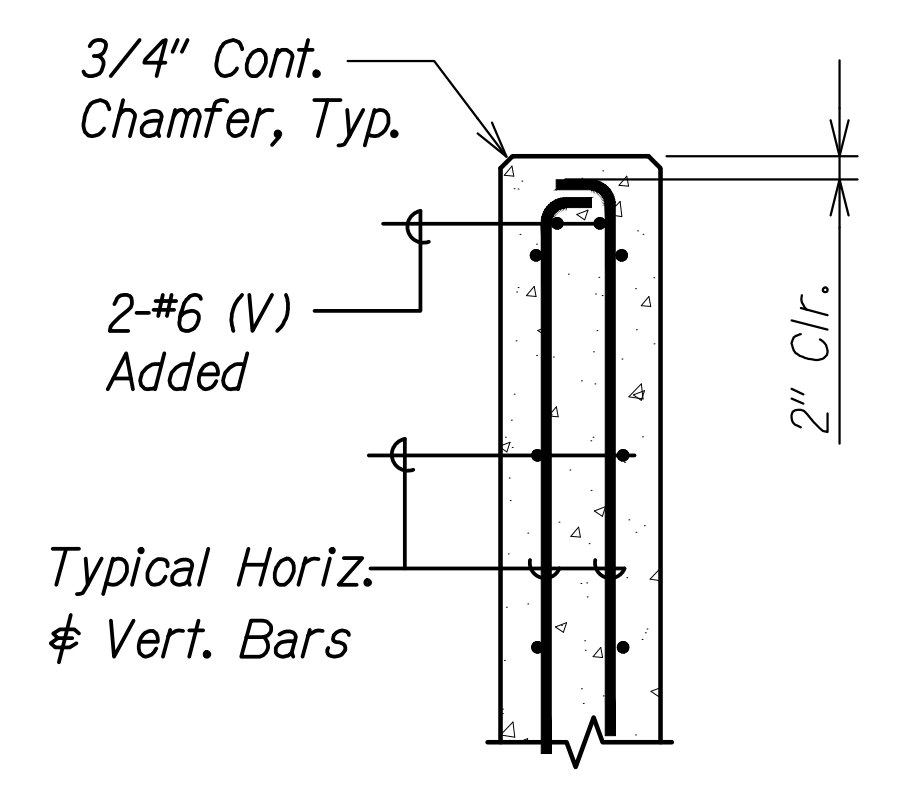
SYMBOLS AND ABBREVIATIONS

KUHIO HIGHWAY SHORT-TERM IMPROVEMENTS KUAMOO ROAD TO TEMPORARY KAPAA BYPASS ROAD
Fed. Aid Proj. No. NH-056-1(50)
Scale: None Date: July 2019

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
KAUAI	HAW.	NH-056-1(50)	2019	ADD. 192	244



ADDED REINFORCING FOR OPENING 1
Scale: 1/2" = 1'-0" S0.6 S0.6



CONCRETE WALL ENDS 2
Scale: 1" = 1'-0" S0.6 S0.6

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

DRAWING NAME: Z:\00 DINGONG\18-029.0-KUHIO HWY KUAMOO ASB-WOC TIA 01 CAD\07-02-24 ASB\KSI-S006 TYP011.S ADD1 ADD3.DWG PLOT TIME: 07-01-24 6:06 PM)



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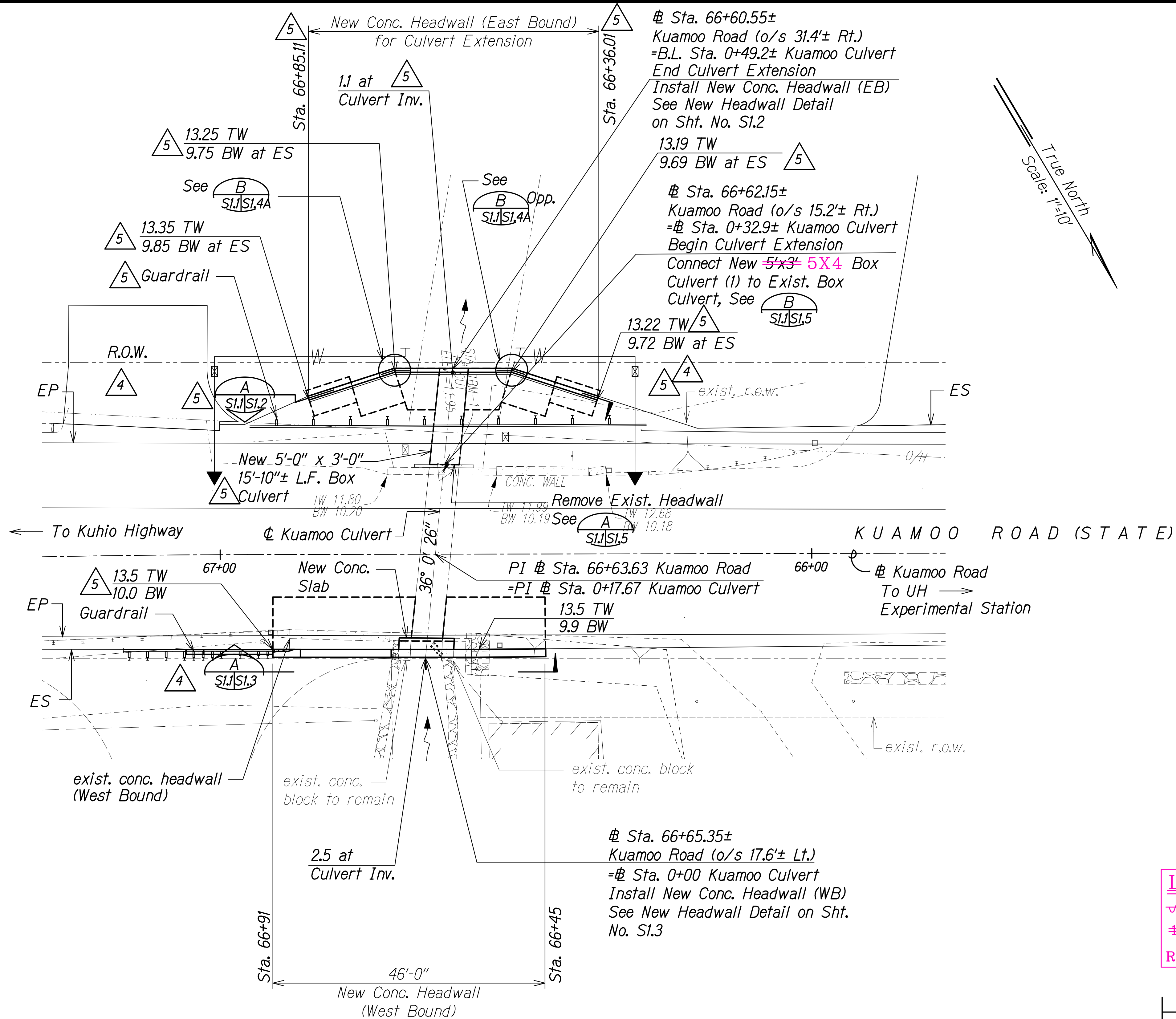
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL DETAILS
KUHIO HIGHWAY SHORT-TERM IMPROVEMENTS KUAMOO ROAD TO TEMPORARY KAPAA BYPASS ROAD
Fed. Aid Proj. No. NH-056-1(50)
Scale: As Noted Date: July 2019

SHEET No. S0.6 OF 6 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
KAUAI	HAW.	NH-056-1(50)	2019	C.O. ADD. 193	244



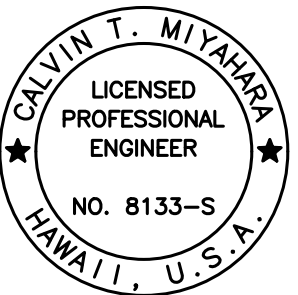
LAYOUT PLAN
EXTENSION OF EXISTING BOX CULVERT
AT STA. 66+64
Scale: 1" = 10'

APPROVED

Manager and Chief Engineer
Department of Water,
County of Kauai

Date

LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
	Text for as-built posting



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EXPIRATION DATE OF THE LICENSE: 4-30-20

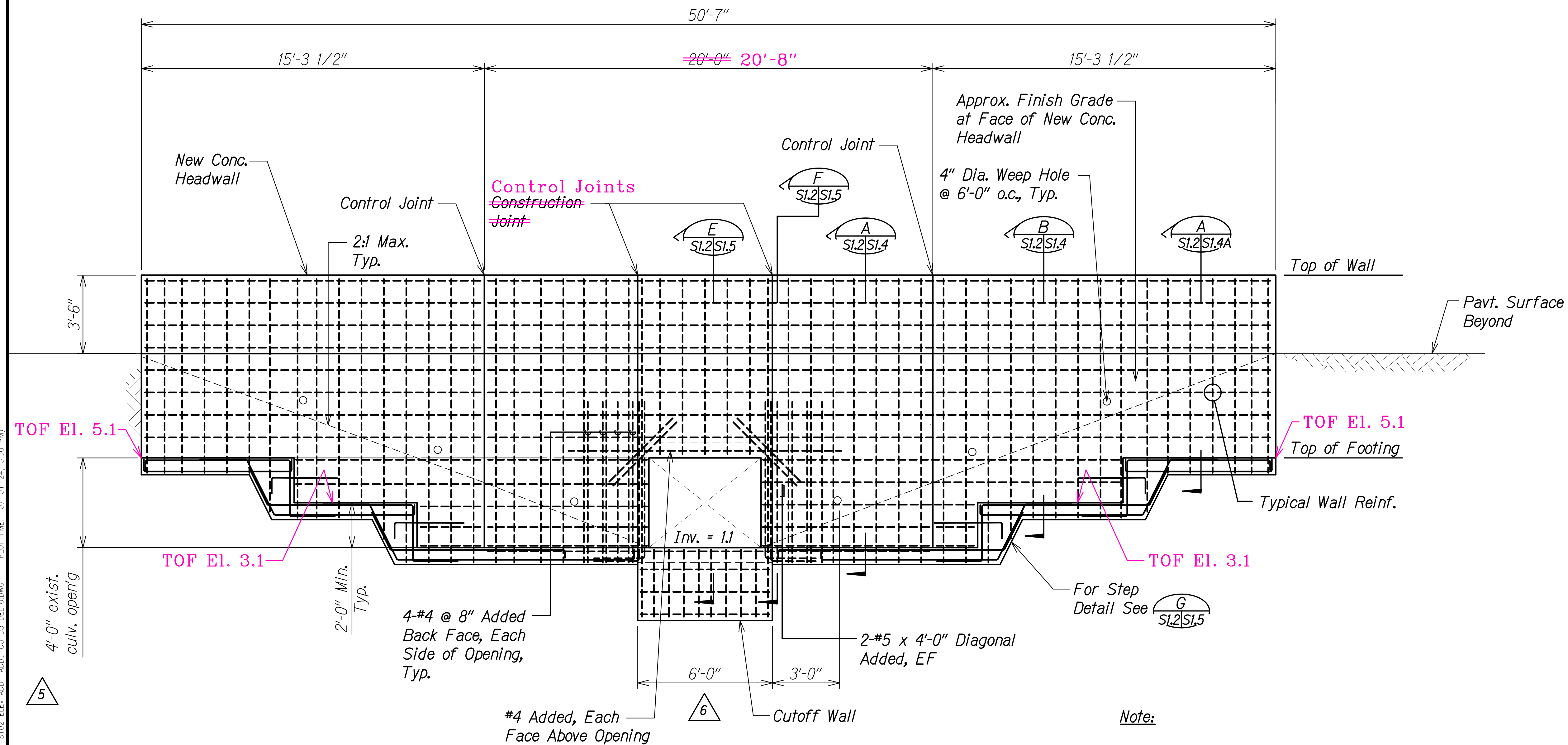
DATE	REVISION
7/5/21	5 C.O. Revised EB headwall.
6/12/20	4 RFI 009 - Barrier Transition
11/12/19	3 Reissuing plan for legibility only. No design changes have been made.
9/20/19	1 Reissuing plan for legibility only. No design changes have been made.

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
KUAMOO ROAD CULVERT EXTENSION
KUHIO HIGHWAY SHORT-TERM IMPROVEMENTS KUAMOO ROAD TO TEMPORARY KAPAA BYPASS ROAD
Fed. Aid Proj. No. NH-056-1(50)
Scale: As Noted Date: July 2019
SHEET No. <i>SI.1</i> OF 6 SHEETS

"AS-BUILT"

C.O. ADD. 193

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
KAUAI	HAW.	NH-056-1(50)	2019	C.O. ADD. 194	244



5 HEADWALL SECTION - KUAMOO ROAD (EB) A
Scale: 3/8" = 1'-0" S1.2 S1.2

LEGEND FOR AS-BUILT POSTINGS

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Roadway Text for as-built posting

| DATE     | REVISION                                                                |
|----------|-------------------------------------------------------------------------|
| 7/12/21  | 6 Revised exist. box culvert size and new reinf.                        |
| 7/5/21   | 5 C.O. Revised EB headwall.                                             |
| 11/12/19 | 3 Reissuing plan for legibility only. No design changes have been made. |
| 9/20/19  | 1 Reissuing plan for legibility only. No design changes have been made. |

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**KUAMOO ROAD EB**

**CULVERT HEADWALL SECTION**

**KUHIO HIGHWAY SHORT-TERM IMPROVEMENTS KUAMOO ROAD TO TEMPORARY KAPAA BYPASS ROAD**

Fed. Aid Proj. No. NH-056-1(50)

Scale: As Noted Date: July 2019

SHEET No. S1.2 OF 6 SHEETS



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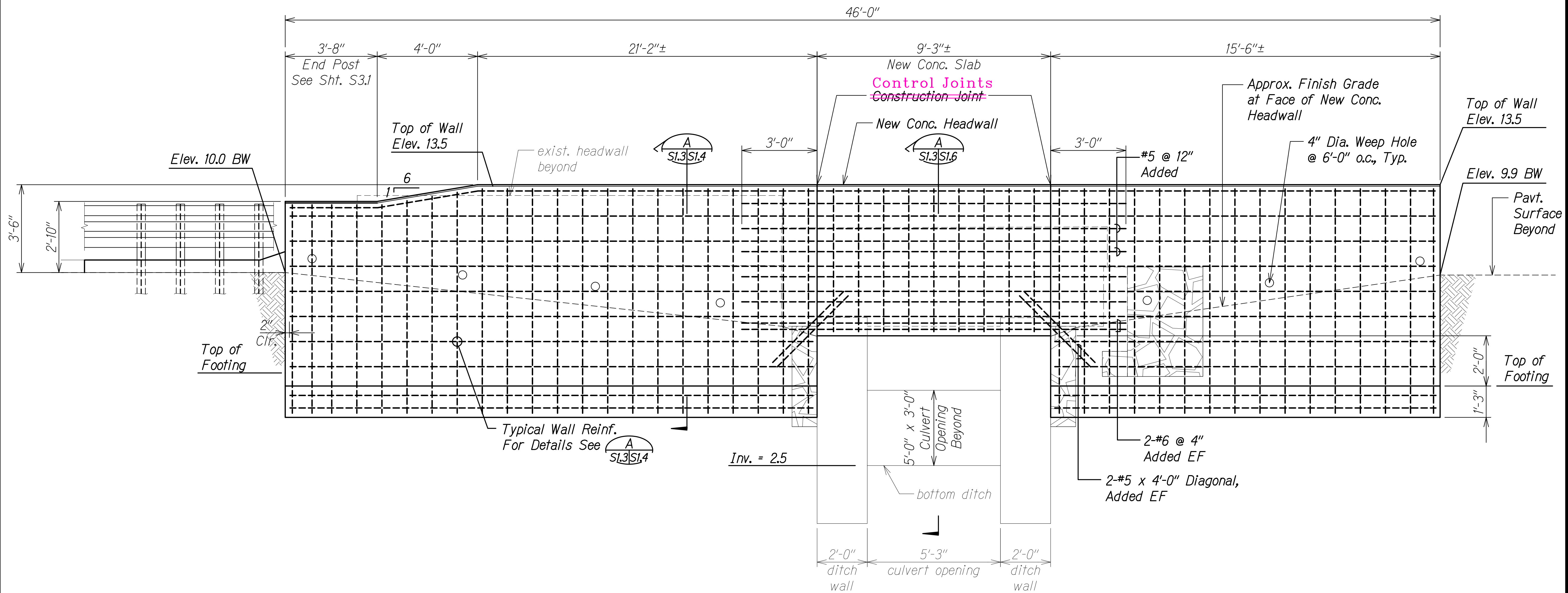
Signature: Calvin T. Miyahara  
EXPIRATION DATE OF THE LICENSE: 4-30-20

"AS-BUILT"

C.O. ADD. 194



| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| KAUAI               | HAW.  | NH-056-K(50)       | 2019        | ADD. 195  | 244          |



HEADWALL ELEVATION - KUAMOO ROAD (WB) A  
Scale: 1/2" = 1'-0" SI.3/SI.3

LEGEND FOR  
AS-BUILT POSTINGS

Squiggly line for as-built deletion

Double line for as-built deletion

Roadway

Text for as-built posting

|          |              |                                                                       |
|----------|--------------|-----------------------------------------------------------------------|
| 11/12/19 | <div>3</div> | Reissuing plan for legibility only. No design changes have been made. |
| 9/20/19  | <div>1</div> | Reissuing plan for legibility only. No design changes have been made. |
| DATE     | REVISION     |                                                                       |

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

KUAMOO ROAD WB

CULVERT HEADWALL ELEVATION

KUHIO HIGHWAY SHORT-TERM IMPROVEMENTS KUAMOO ROAD TO TEMPORARY KAPAA BYPASS ROAD

Fed. Aid Proj. No. NH-056-K(50)

Scale: As Noted

Date: July 2019

SHEET No. SI.3 OF 6 SHEETS

CALVIN T. MIYAHARA

LICENSED PROFESSIONAL ENGINEER

NO. 8133-S

HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE

EXPIRATION DATE OF THE LICENSE

"AS-BUILT"

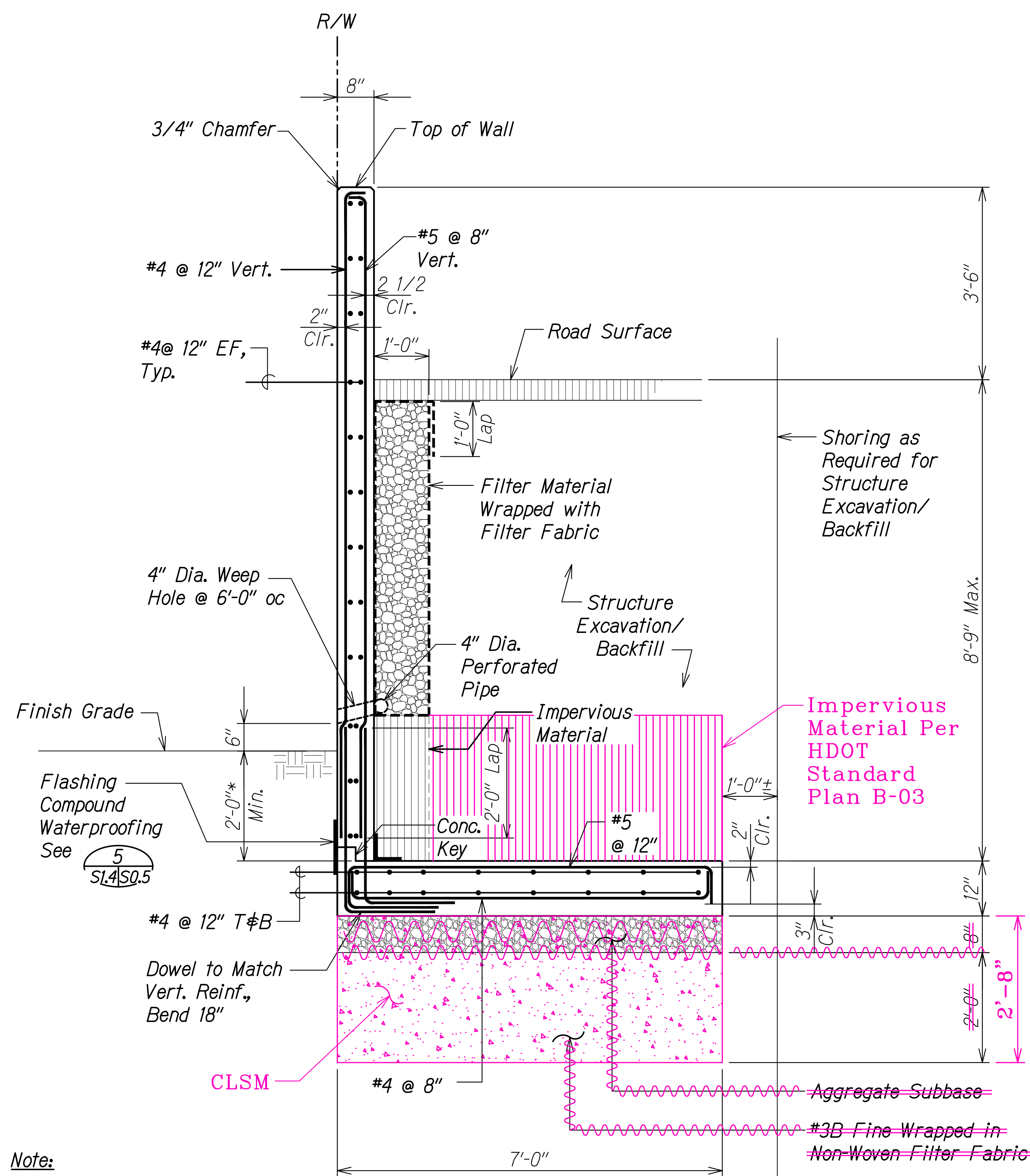
ADD. 195

|               |                   |      |
|---------------|-------------------|------|
| ORIGINAL PLAN | SURVEY PLOTTED BY | DATE |
| NOTE BOOK     | DRAWN BY          | "    |
|               | DESIGNED BY       | "    |
|               | QUANTITIES BY     | "    |
|               | CHECKED BY        | "    |

DRAWING NAME: Z:\00 ONGOING\18-029.0-KUHIO HWY KUAMOO ASB-WOC.TIA.01.CAD\07-02-24 ASB-KSI-SI03 ELEV ADD1 ADD3.DWG PLOT TIME: 07-01-24, 6:08 PM

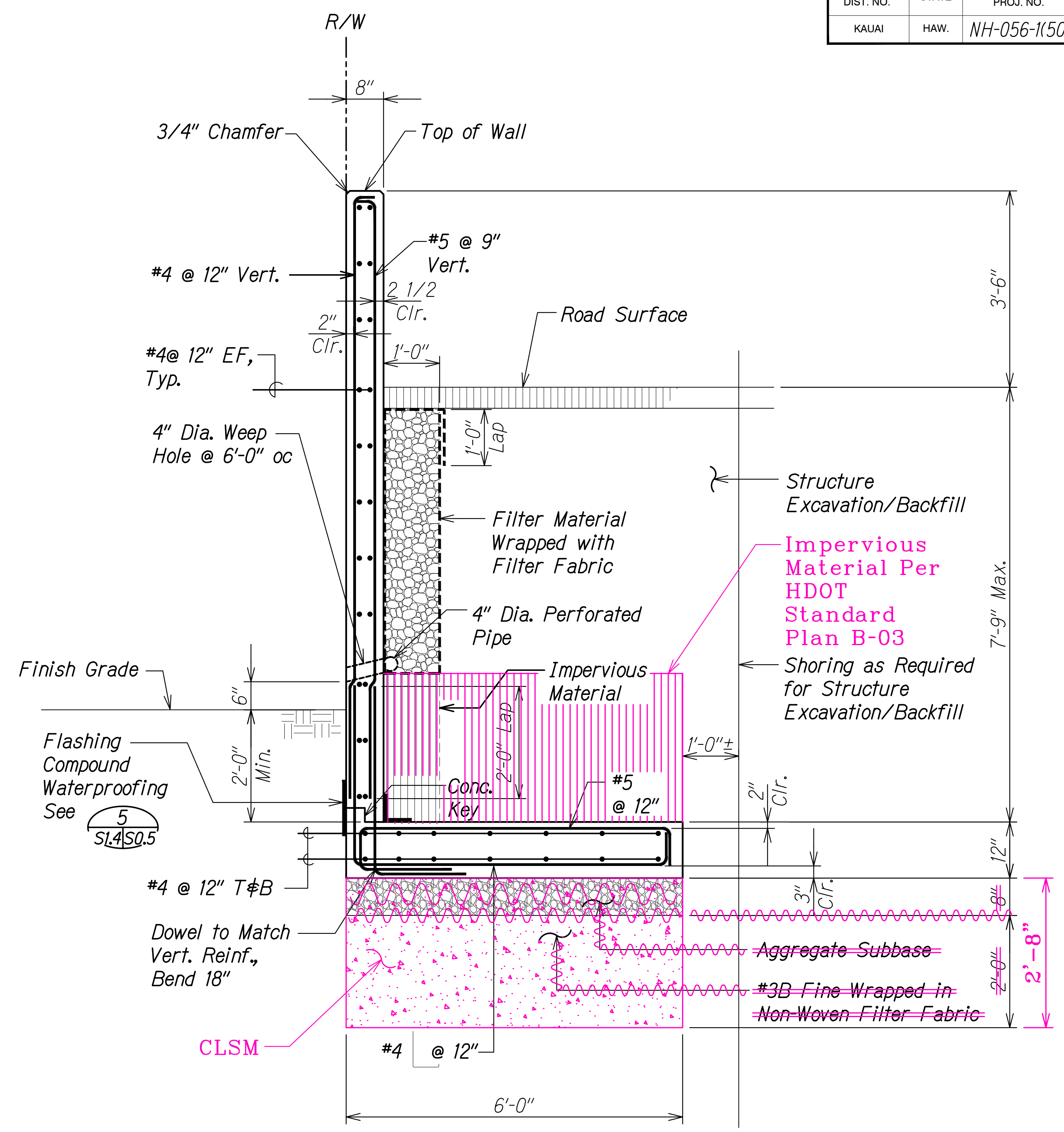


| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO.     | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|---------------|--------------|
| KAUAI               | HAW.  | NH-056-1(50)       | 2019        | C.O. ADD. 196 | 244          |



**Note:**  
\* 2'-0" min. is not applicable at the culvert opening. Follow grades from Civil sheets in that area.

**SECTION A**  
Scale: 3/4" = 1'-0"  
S1.2 S1.4



**SECTION B**  
Scale: 3/4" = 1'-0"  
S1.2 S1.4

**LEGEND FOR AS-BUILT POSTINGS**  
Squiggly line for as-built deletion  
Double line for as-built deletion  
Roadway Text for as-built posting

| DATE     | REVISION                                                                |
|----------|-------------------------------------------------------------------------|
| 7/5/21   | 5 C.O. Revised and new EB headwall sections.                            |
| 11/12/19 | 3 Reissuing plan for legibility only. No design changes have been made. |
| 9/20/19  | 1 Reissuing plan for legibility only. No design changes have been made. |

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**KUAMOO ROAD EB**  
**CULVERT EXTENSION SECTIONS**  
KUHIO HIGHWAY SHORT-TERM IMPROVEMENTS KUAMOO ROAD TO TEMPORARY KAPAA BYPASS ROAD  
Fed. Aid Proj. No. NH-056-1(50)  
Scale: As Noted Date: July 2019  
SHEET No. S1.4 OF 6 SHEETS



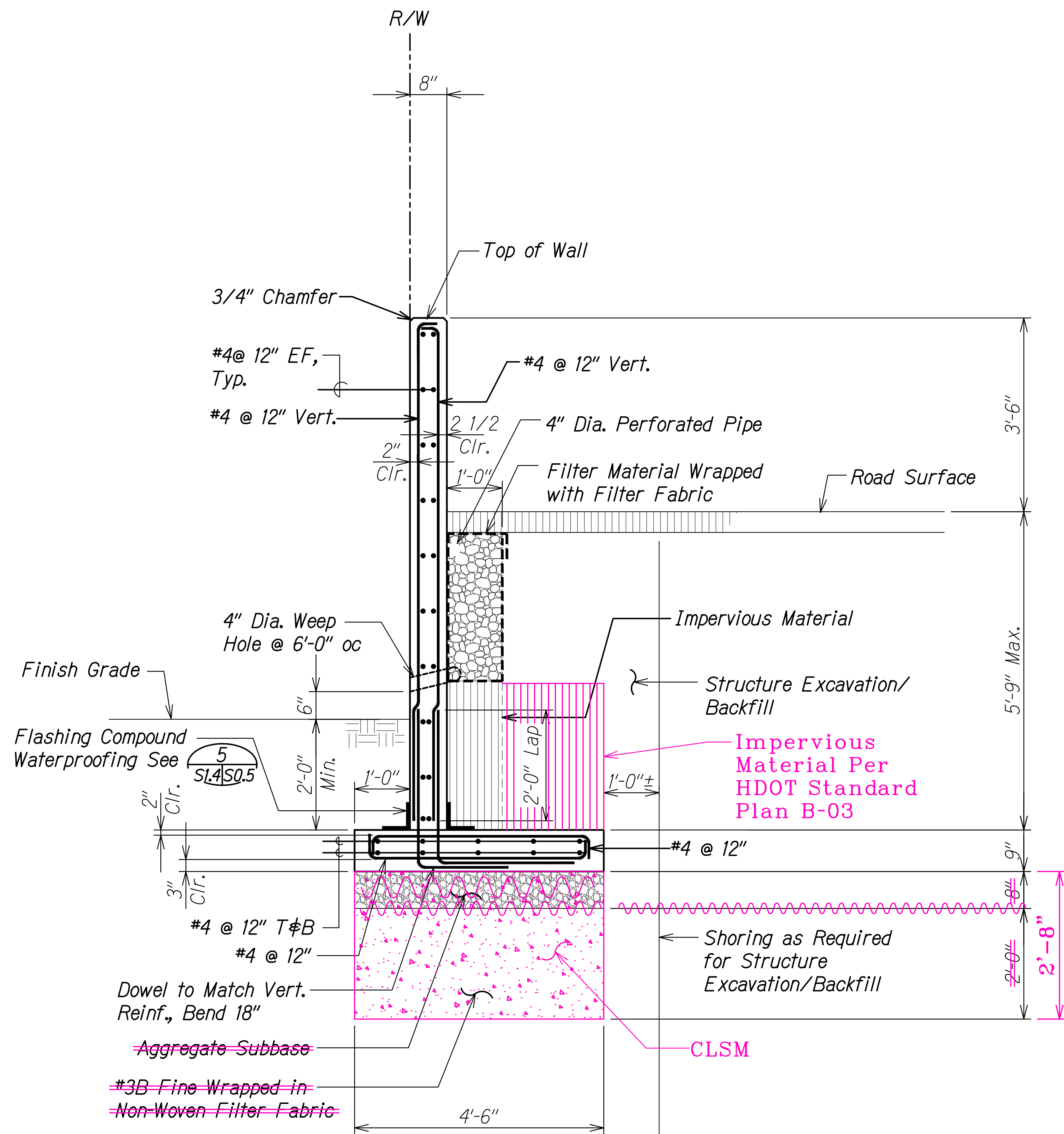
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.  
Calvin T. Miyahara  
EXPIRATION DATE OF THE LICENSE

"AS-BUILT"

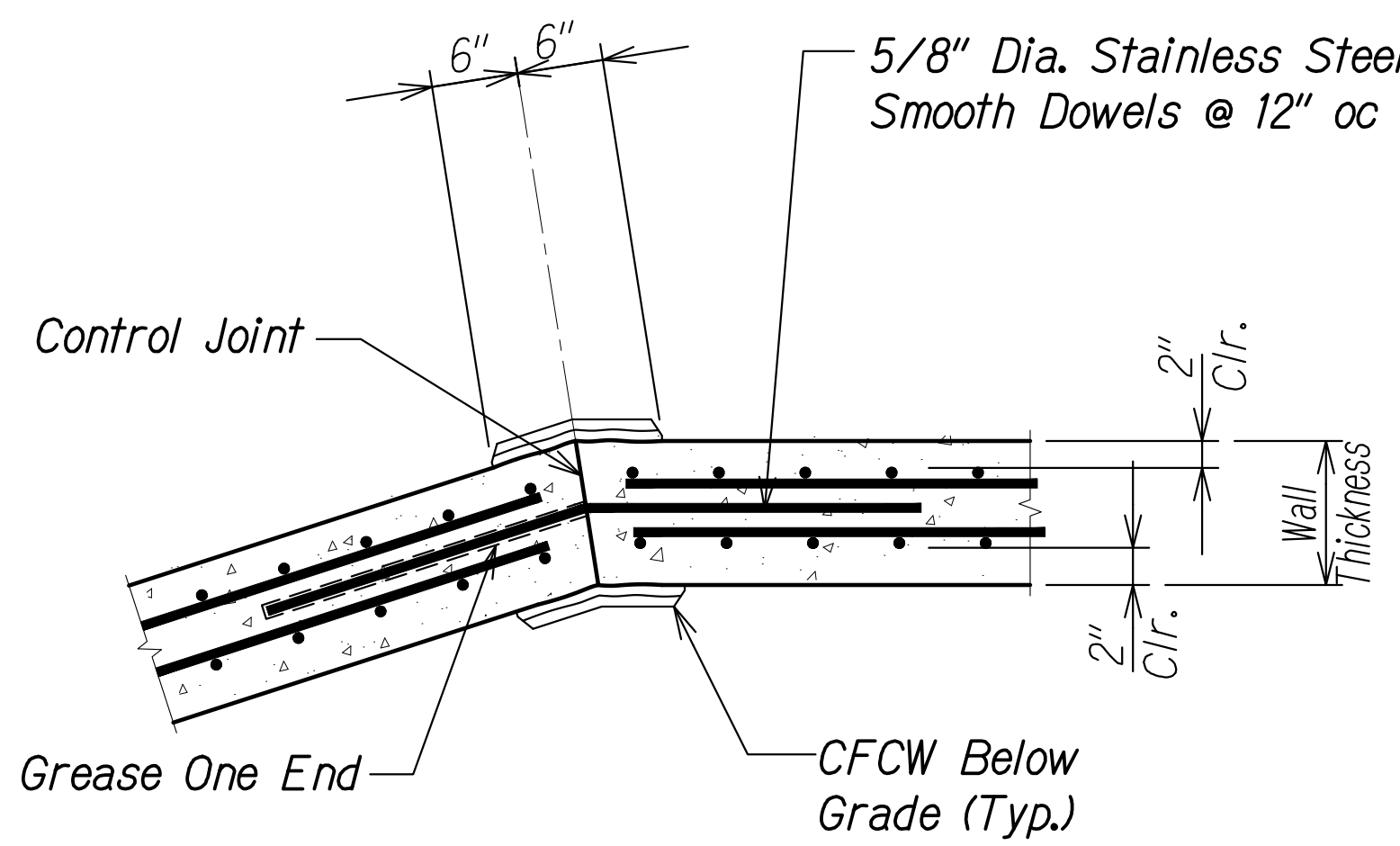
C.O. ADD. 196



| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO.        | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|------------------|--------------|
| KAUAI               | HAW.  | NH-056-1(50)       | 2019        | C.O. ADD. 196S-1 | 244          |



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



Note:  
See Sht. S0.5 for additional details.

VERTICAL CONTROL JOINT DETAIL B  
Scale: 1" = 1'-0"



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Signature: Calvin Miyahara  
EXPIRATION DATE OF THE LICENSE: 4-30-20

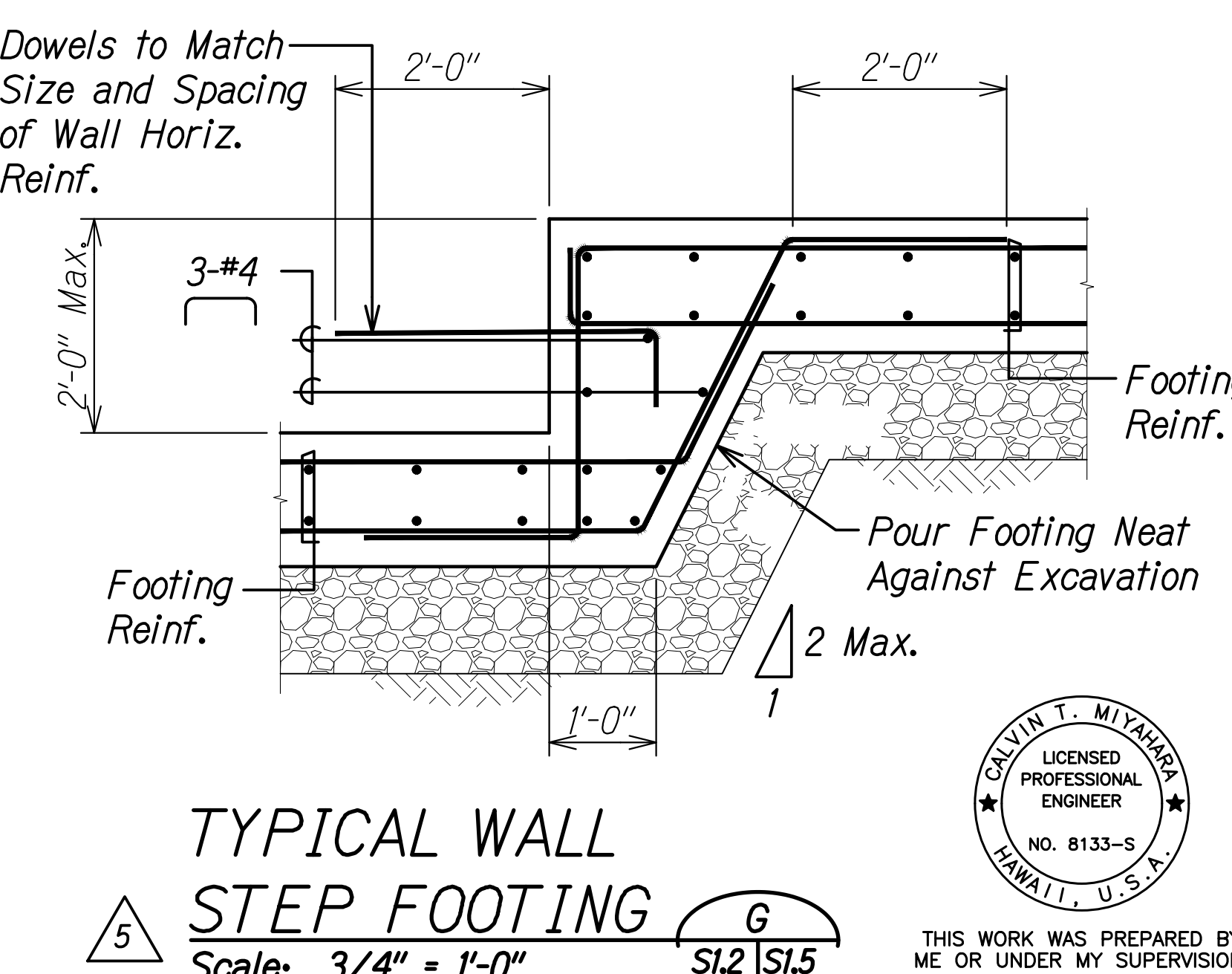
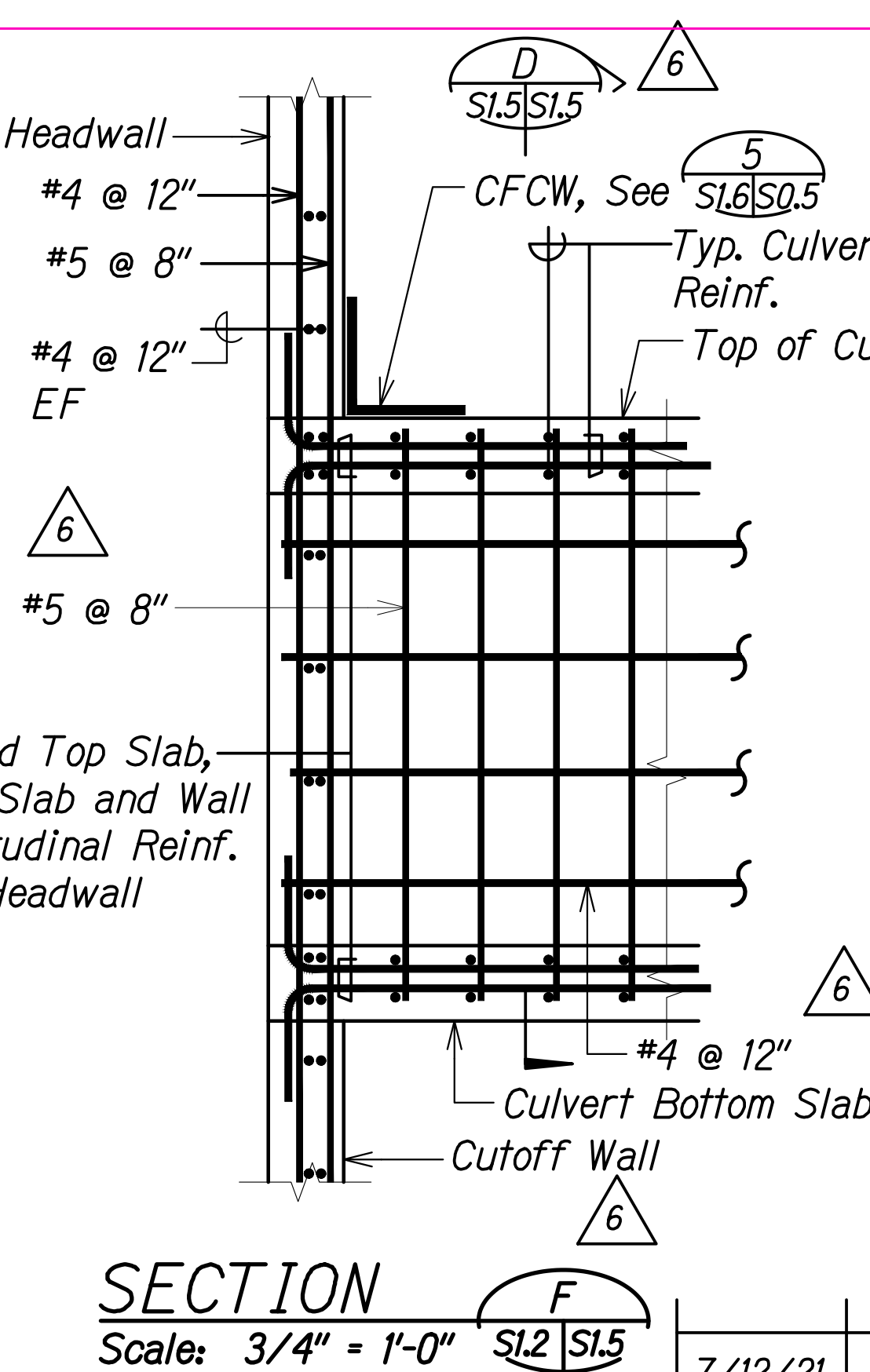
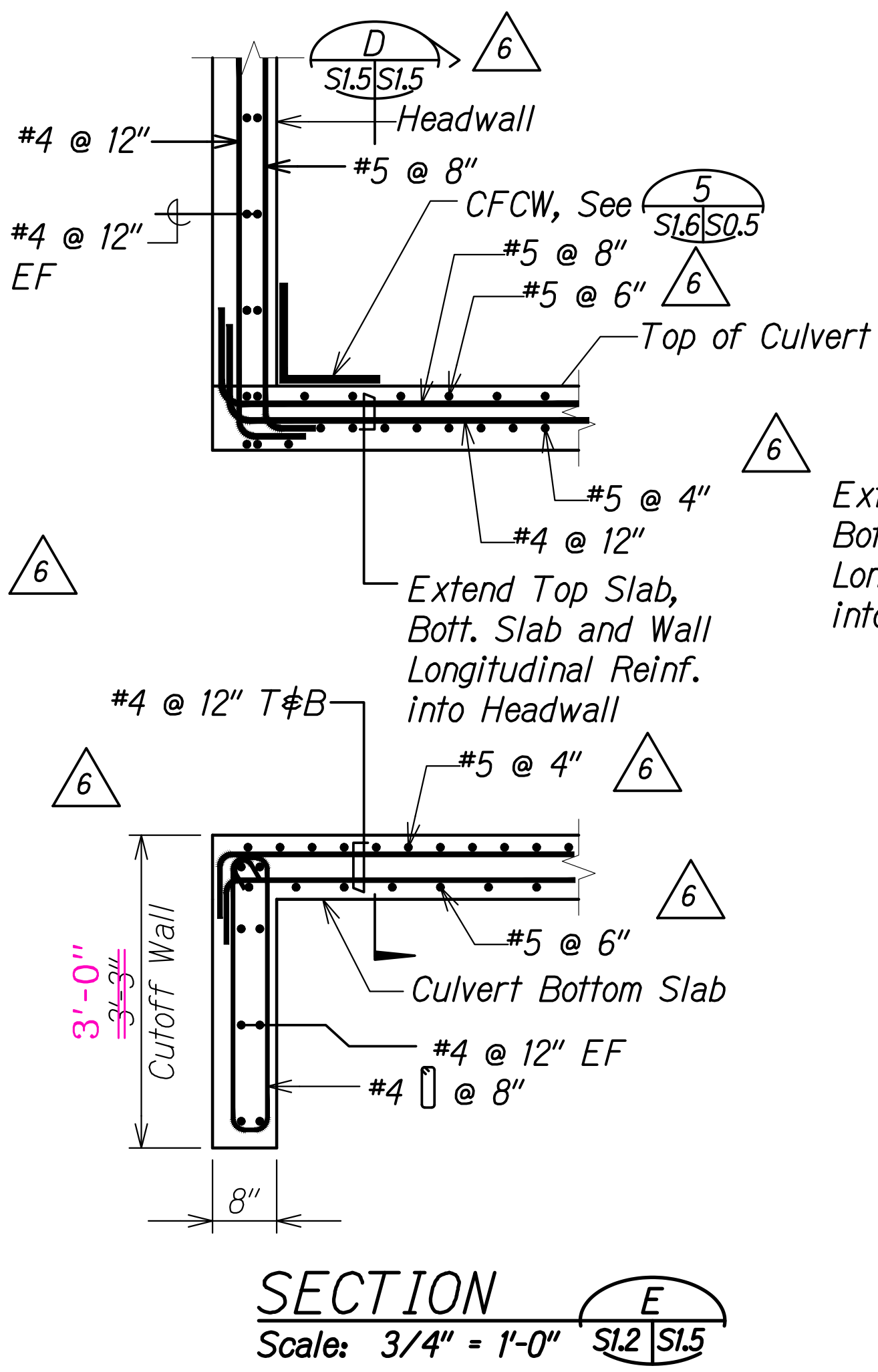
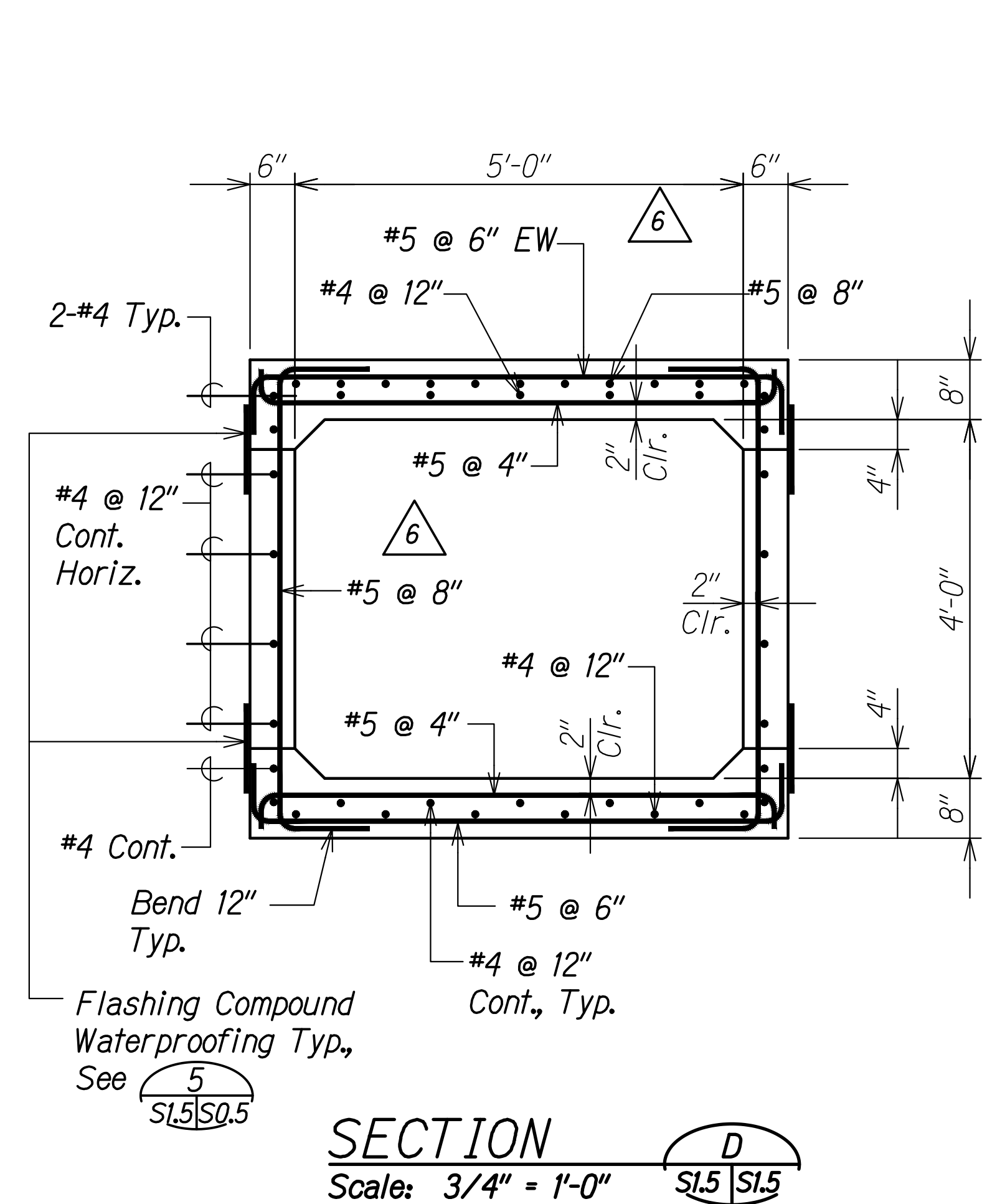
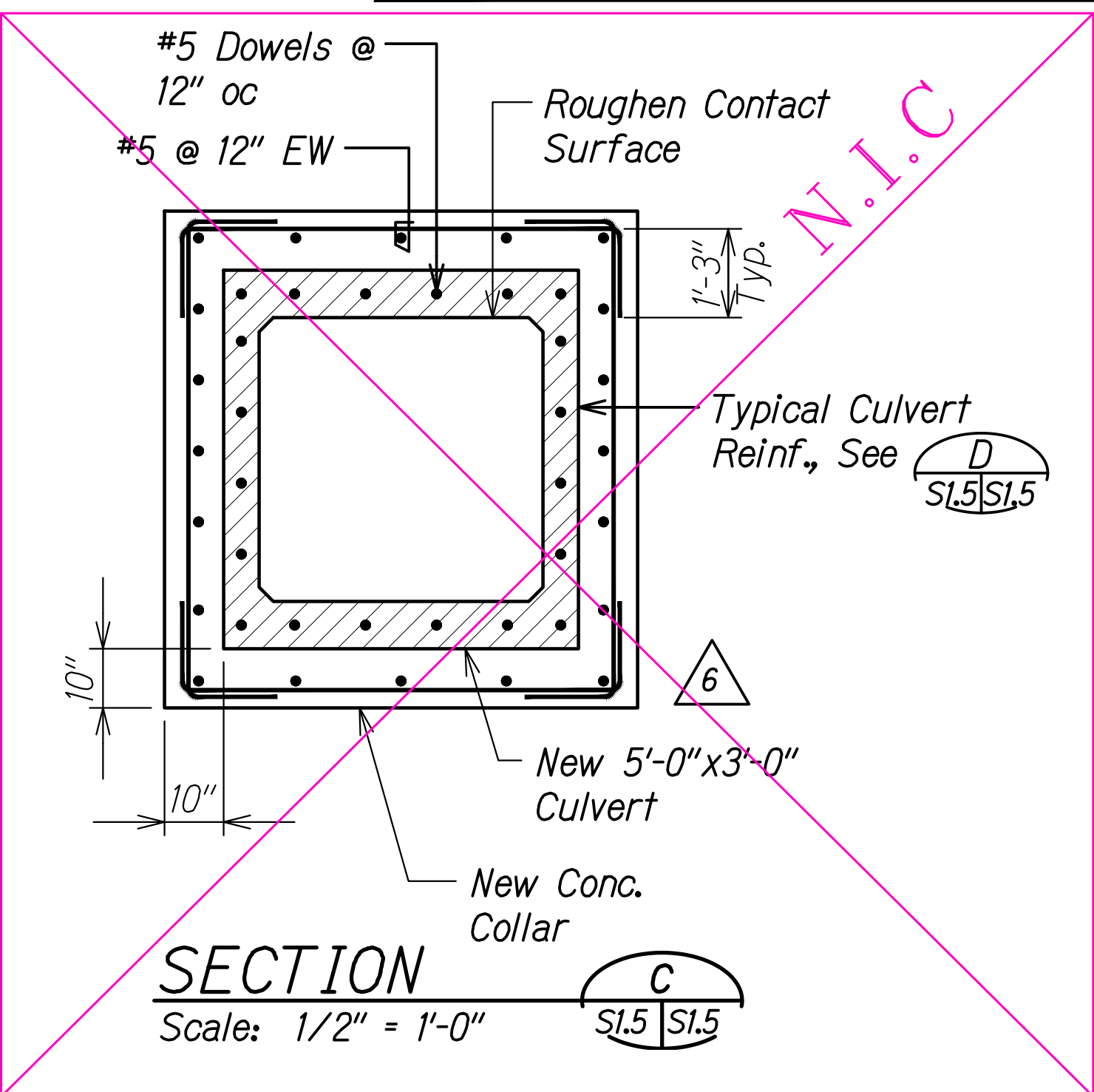
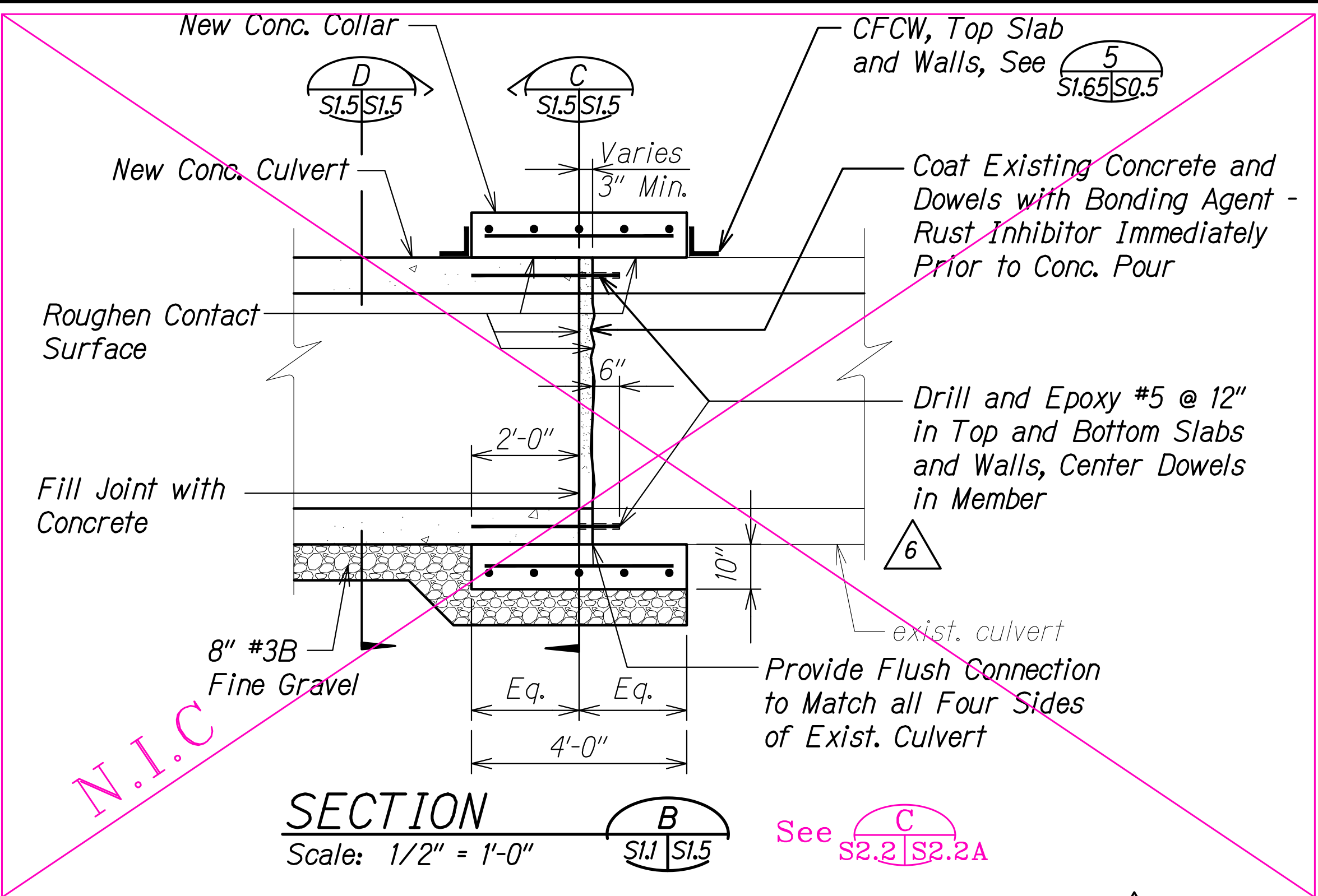
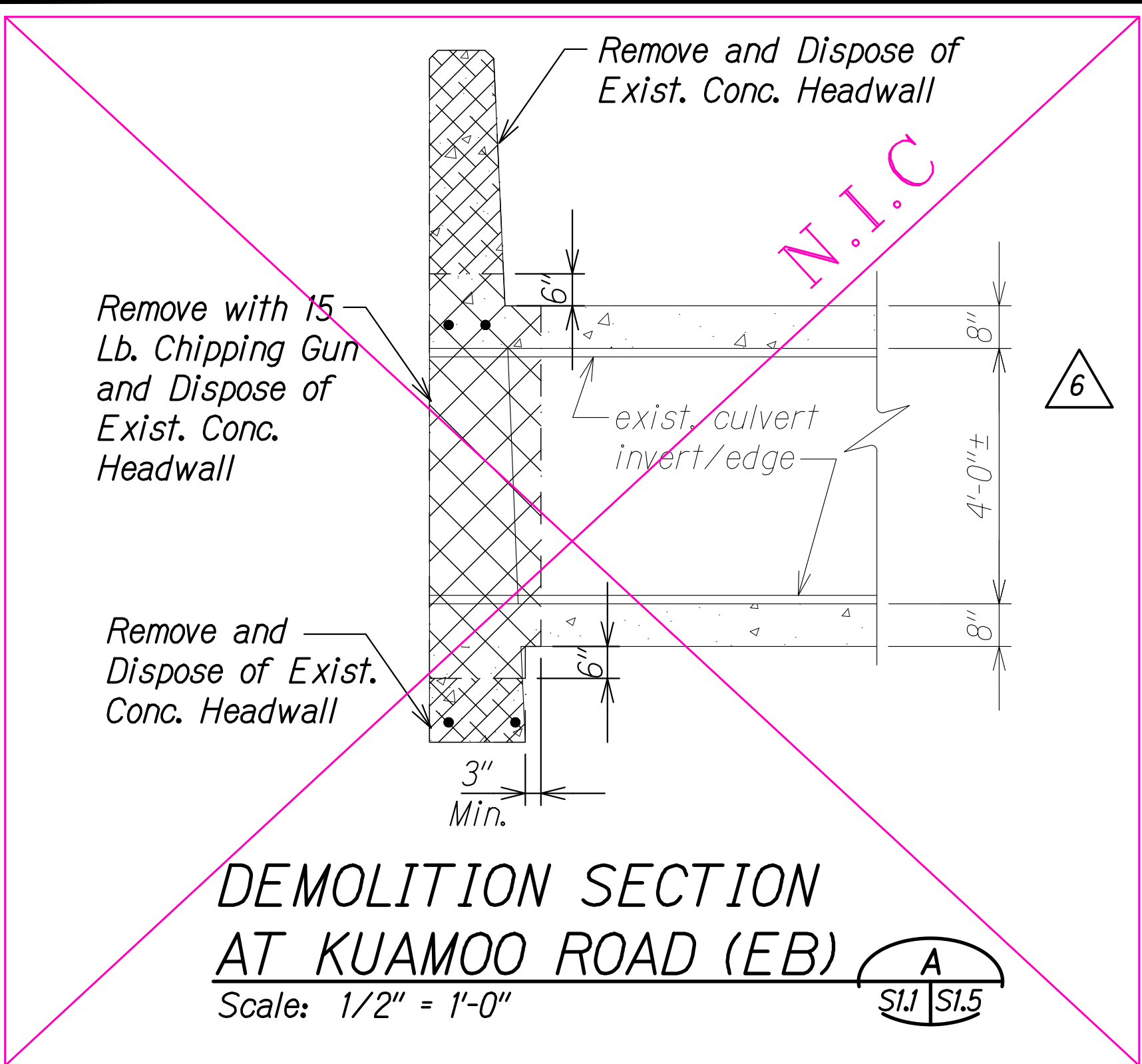
| LEGEND FOR AS-BUILT POSTINGS |                                     |
|------------------------------|-------------------------------------|
|                              | Squiggly line for as-built deletion |
|                              | Double line for as-built deletion   |
| Roadway                      | Text for as-built posting           |

| DATE   | REVISION         |
|--------|------------------|
| 7/5/21 | 5 C.O. New sheet |

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**KUAMOO ROAD EB**  
**CULVERT EXTENSION SECTION**  
KUHIO HIGHWAY SHORT-TERM IMPROVEMENTS KUAMOO ROAD TO TEMPORARY KAPAA BYPASS ROAD  
Fed. Aid Proj. No. NH-056-1(50)  
Scale: As Noted Date: July 2019  
SHEET No. S1.4A OF 6 SHEETS



| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO.     | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|---------------|--------------|
| KAUAI               | HAW.  | NH-056-1(50)       | 2019        | C.O. ADD. 197 | 244          |



LEGEND FOR AS-BUILT POSTINGS

~~~~~ Squiggly line for as-built deletion

== Double line for as-built deletion

Roadway Text for as-built posting

| DATE | REVISION |
|----------|---|
| 7/12/21 | 6 C.O. Revised headwall sections. |
| 7/5/21 | 5 C.O. Revised and new EB headwall sections. |
| 11/12/19 | 3 Reissuing plan for legibility only. No design changes have been made. |
| 9/20/19 | 1 Reissuing plan for legibility only. No design changes have been made. |

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

KUAMOO ROAD EB

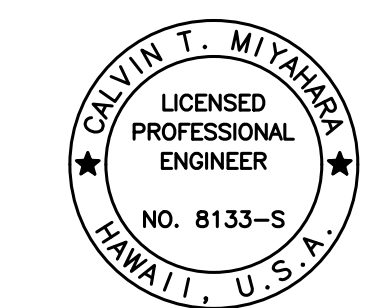
CULVERT EXTENSION SECTIONS

KUHIO HIGHWAY SHORT-TERM IMPROVEMENTS KUAMOO ROAD TO TEMPORARY KAPAA BYPASS ROAD

Fed. Aid Proj. No. NH-056-1(50)

Scale: As Noted Date: July 2019

SHEET No. SI.5 OF 6 SHEETS



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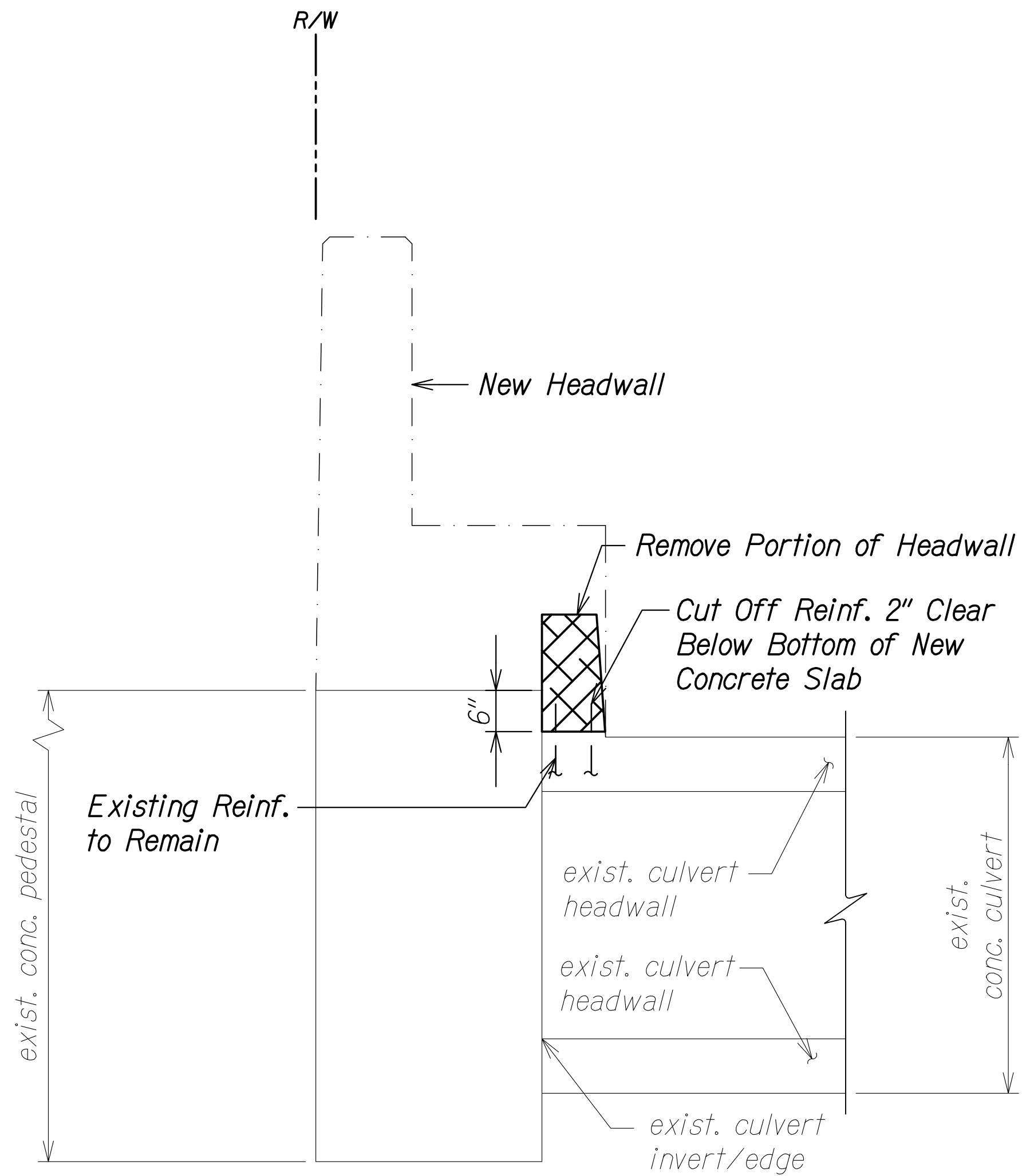
Calvin T. Miyahara

SIGNATURE EXPIRATION DATE OF THE LICENSE

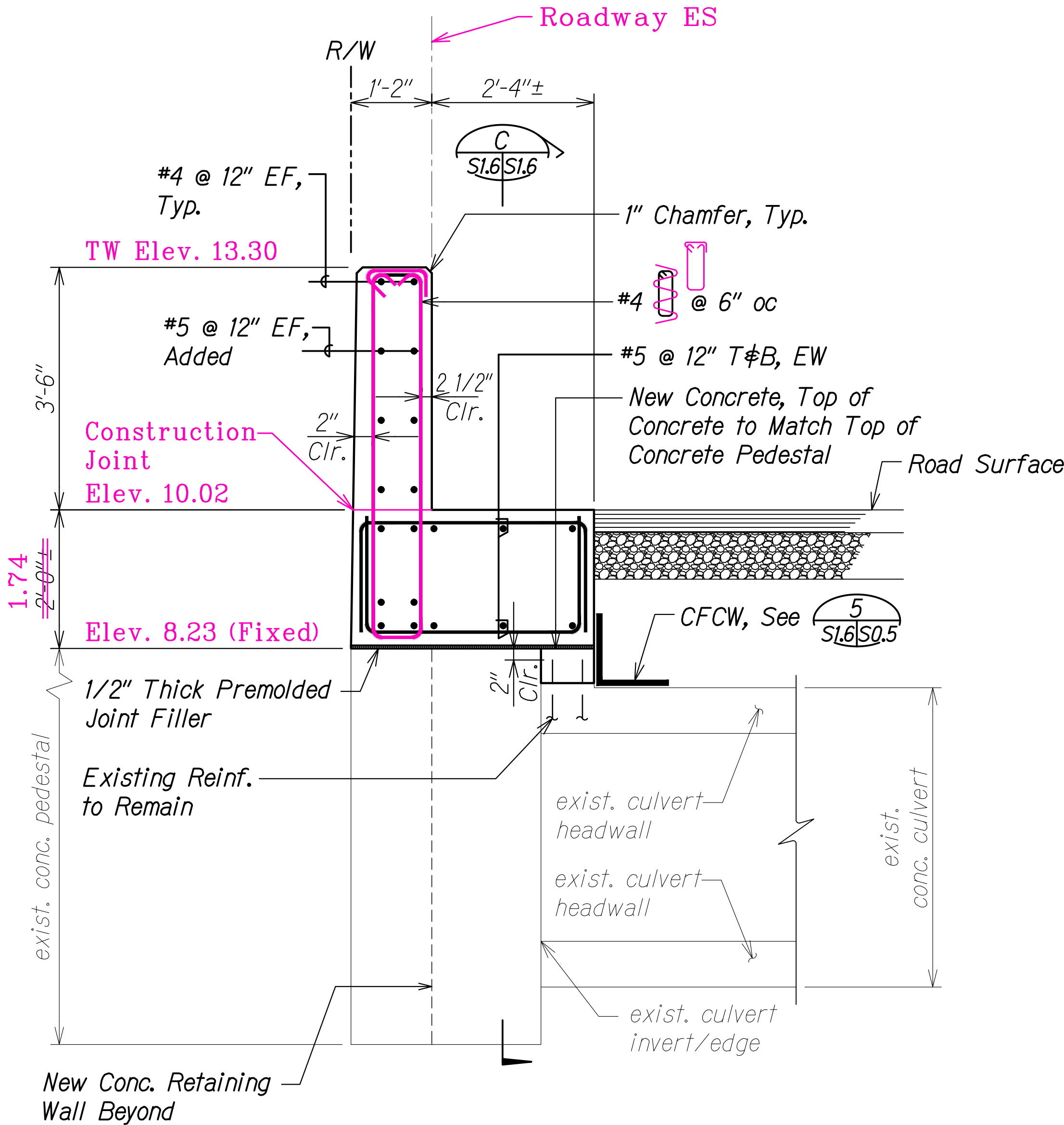
"AS-BUILT"

C.O. ADD. 197

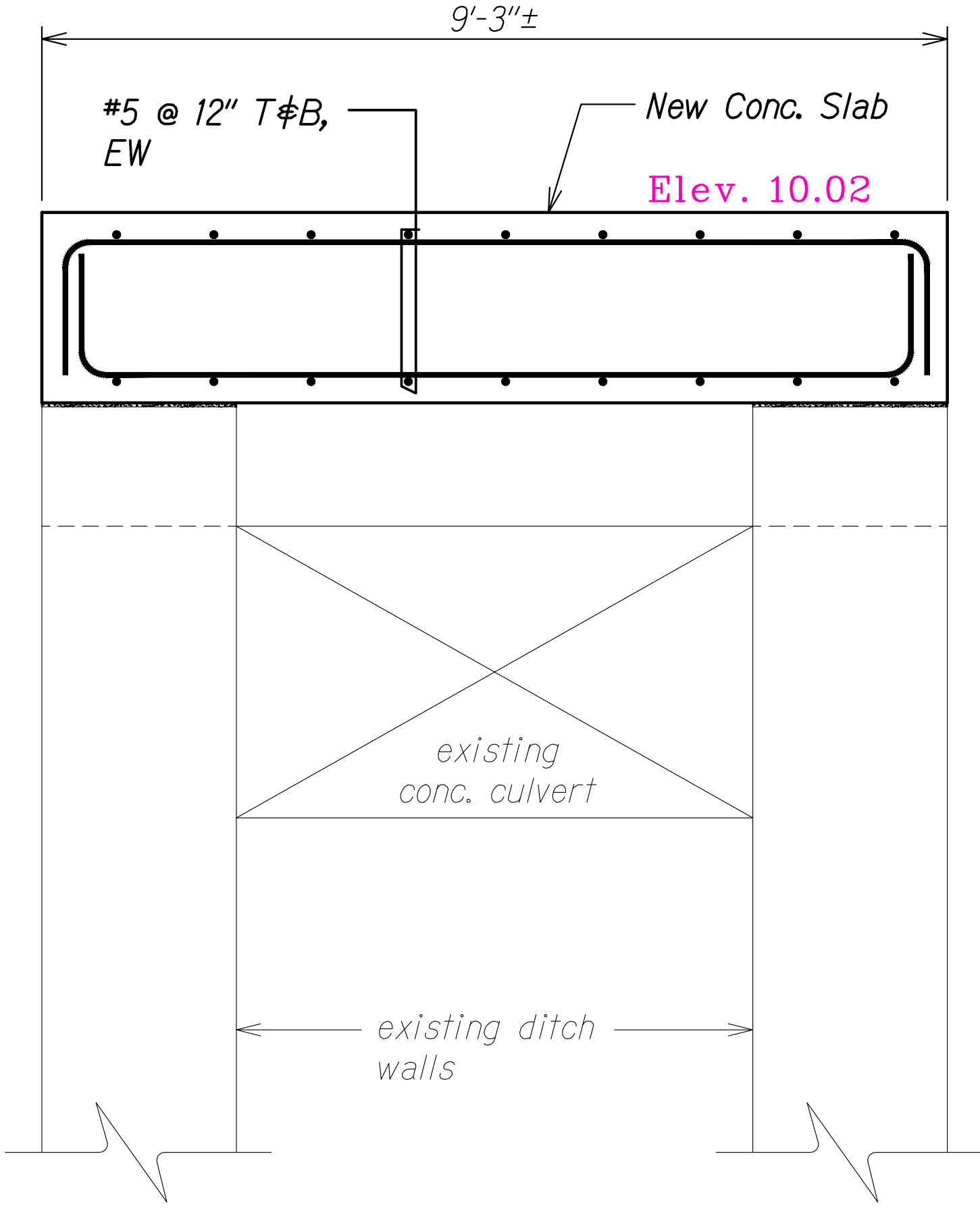
| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| KAUAI | HAW. | NH-056-1(50) | 2019 | ADD. 198 | 244 |



DEMOLITION SECTION A
Scale: 3/4" = 1'-0" SL.3 SL.6



SECTION B
Scale: 3/4" = 1'-0" SL.3 SL.6



SECTION C
Scale: 3/4" = 1'-0" SL.6 SL.6

| | |
|---------------|------|
| ORIGINAL PLAN | DATE |
| NOTE BOOK | |
| QUANTITIES BY | |
| CHECKED BY | |

DRAWING NAME: Z:\00 CONCRETE\18-029.0-KUHIO HWY KUAMOO ASB-WOC TWA 01 CAD\07-02-24 ASB-KSI-S106 WB SECTS ADD1 ADD3.DWG PLOT TIME: 07-01-24 6:12 PM

LEGEND FOR AS-BUILT POSTINGS

Squiggly line for as-built deletion

Double line for as-built deletion

Text for as-built posting

| | | |
|----------|----------|---|
| 11/12/19 | | Reissuing plan for legibility only. No design changes have been made. |
| 9/20/19 | | Reissuing plan for legibility only. No design changes have been made. |
| DATE | REVISION | |

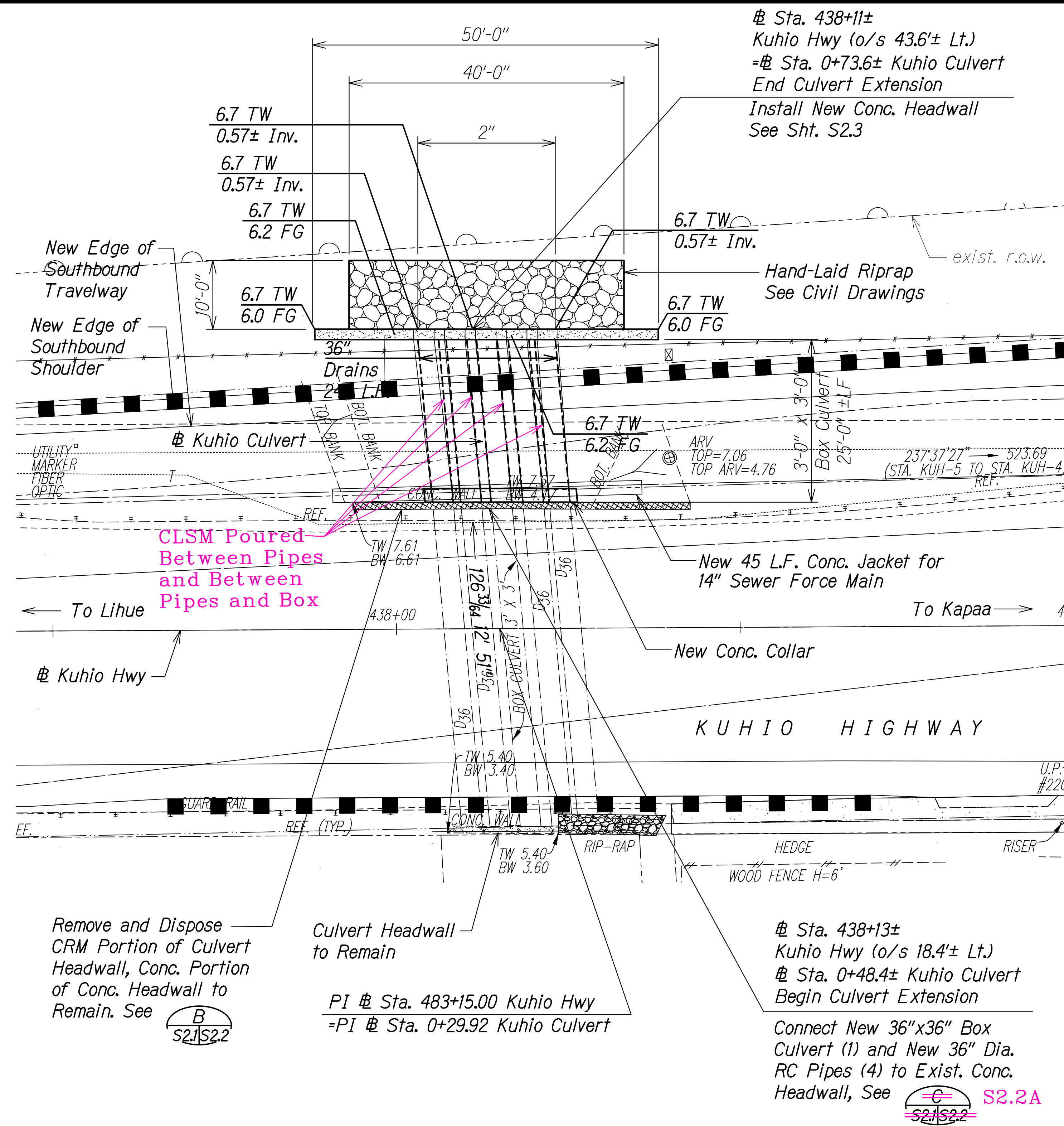
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
KUAMOO ROAD WB
CULVERT EXTENSION SECTIONS
KUHIO HIGHWAY SHORT-TERM IMPROVEMENTS KUAMOO ROAD TO TEMPORARY KAPAA BYPASS ROAD
Fed. Aid Proj. No. NH-056-1(50)
Scale: As Noted Date: July 2019
SHEET No. SL.6 OF 6 SHEETS



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Calvin T. Miyahara
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"AS-BUILT"

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| KAUAI | HAW. | NH-056-1(50) | 2019 | ADD. 199 | 244 |



True North
Scale: 1"=10'

LAYOUT PLAN
EXTENSION OF EXISTING BOX CULVERT
AT STA. 438+15
Scale: 1" = 10'

LEGEND FOR AS-BUILT POSTINGS

Squiggly line for as-built deletion

Double line for as-built deletion

Text for as-built posting

| | | |
|----------|----------|---|
| 11/12/19 | | Reissuing plan for legibility only. No design changes have been made. |
| 9/20/19 | | Reissuing plan for legibility only. No design changes have been made. |
| DATE | REVISION | |

CALVIN T. MIYAHARA
LICENSED PROFESSIONAL ENGINEER
NO. 8133-S
HAWAII, U.S.A.

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Calvin Miyahara
SIGNATURE
EXPIRATION DATE OF THE LICENSE: 4-30-20

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**KUHIO HIGHWAY
CULVERT EXTENSION**

**KUHIO HIGHWAY SHORT-TERM
IMPROVEMENTS KUAMOO ROAD
TO TEMPORARY KAPAA BYPASS ROAD**

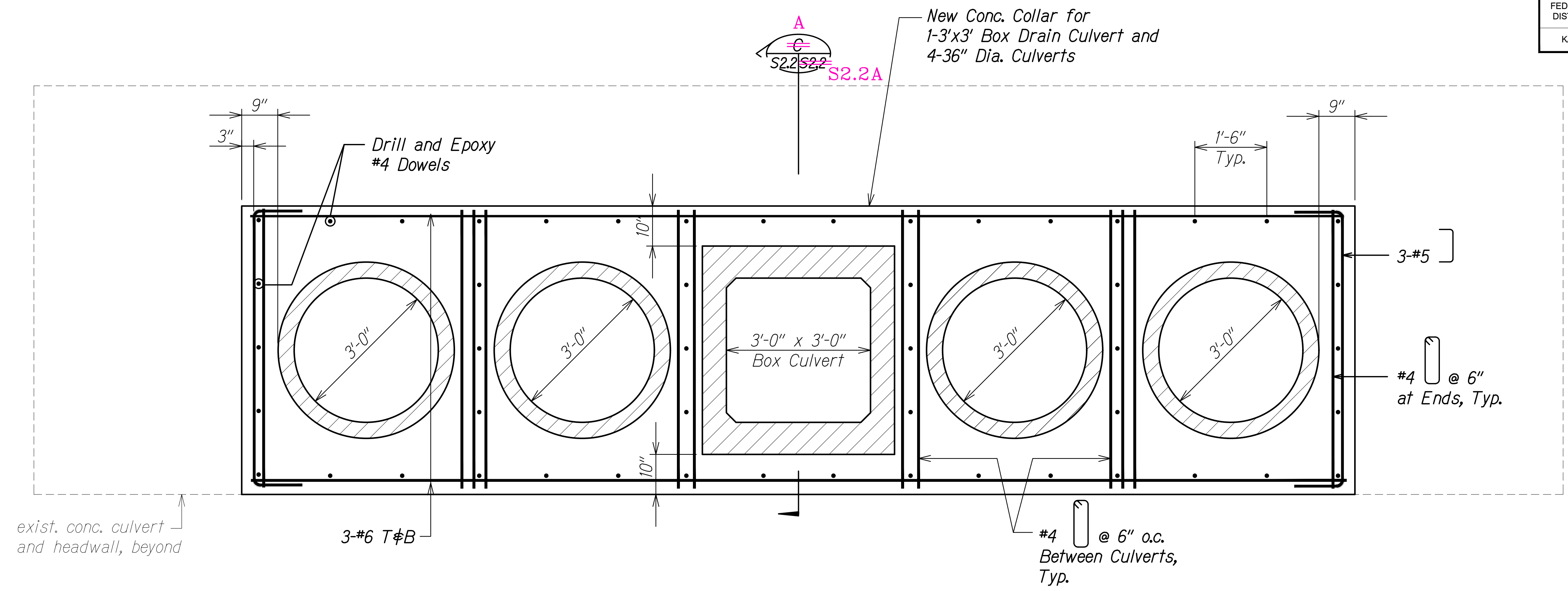
Fed. Aid Proj. No. NH-056-1(50)

Scale: As Noted Date: July 2019

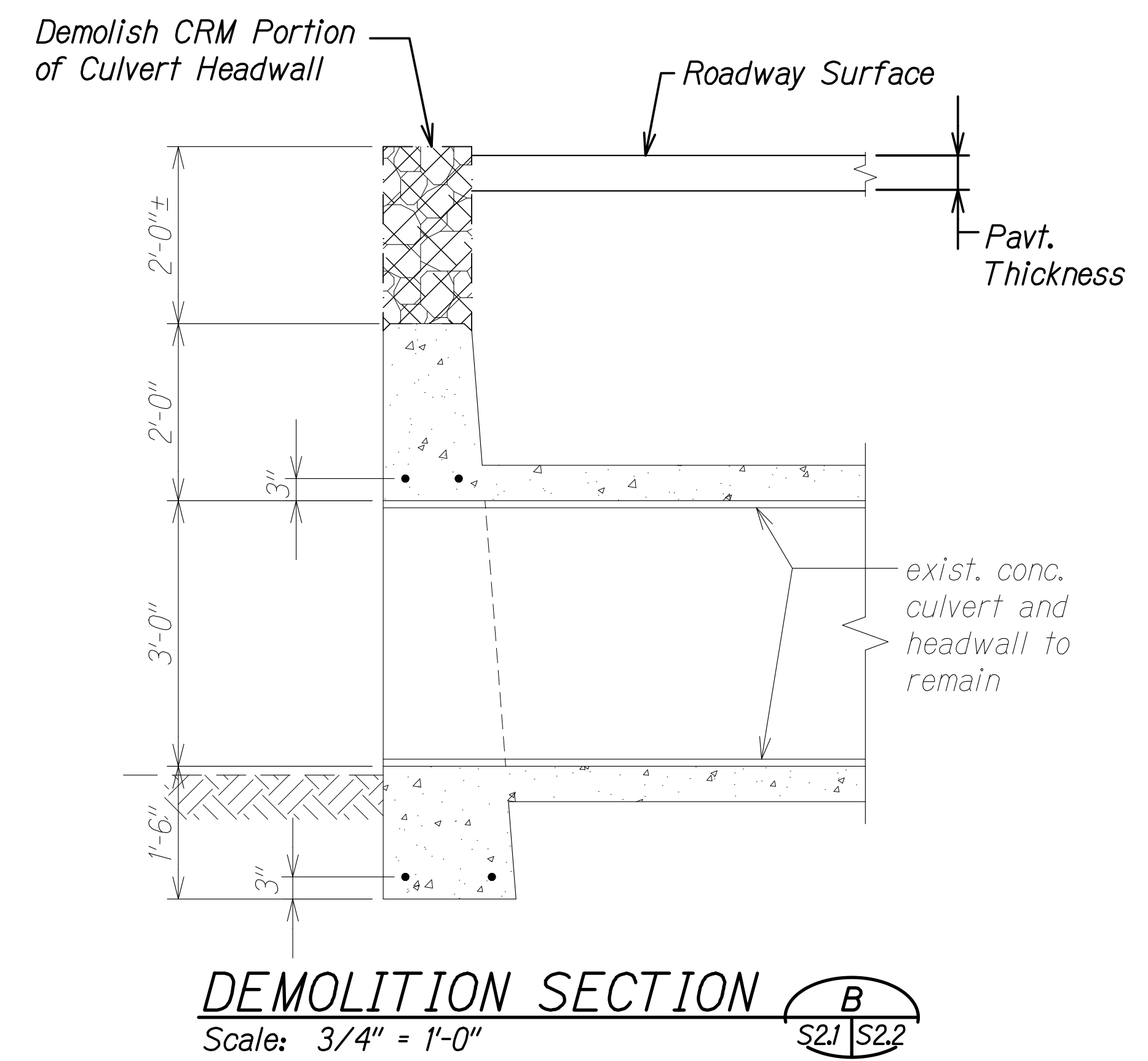
SHEET No. S21 OF 5 SHEETS

"AS-BUILT"

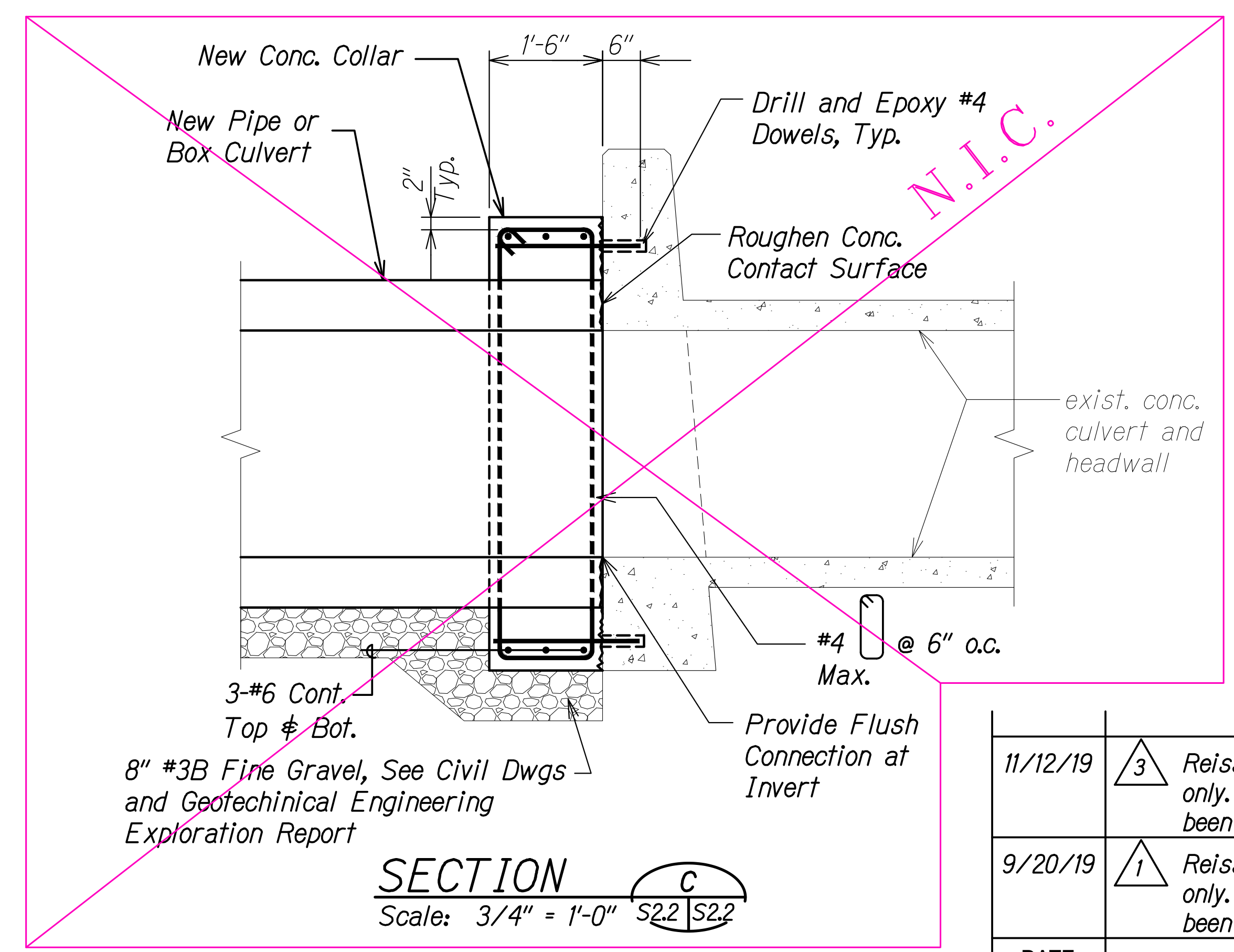
| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| KAUAI | HAW. | NH-056-1(50) | 2019 | ADD. 200 | 244 |



COLLAR CONNECTION DETAIL FOR CULVERT EXTENSION A
S2.2 S2.2
Scale: 3/4" = 1'-0"



DEMOLITION SECTION B
S2.1 S2.2
Scale: 3/4" = 1'-0"



SECTION C
S2.2 S2.2
Scale: 3/4" = 1'-0"

LEGEND FOR AS-BUILT POSTINGS

Squiggly line for as-built deletion

Double line for as-built deletion

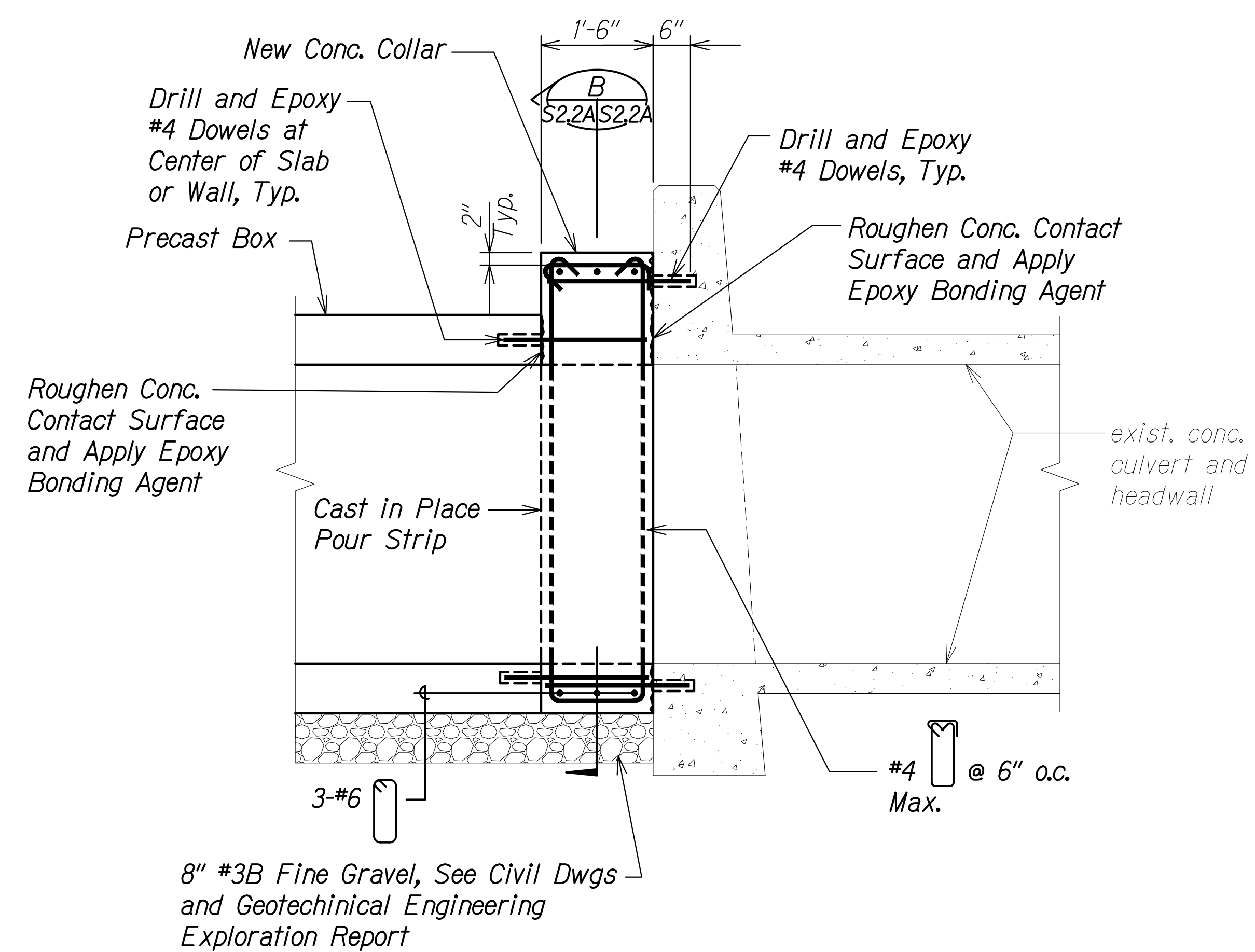
Text for as-built posting

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Calvin Miyahara
SIGNATURE EXPIRATION DATE OF THE LICENSE 4-30-20

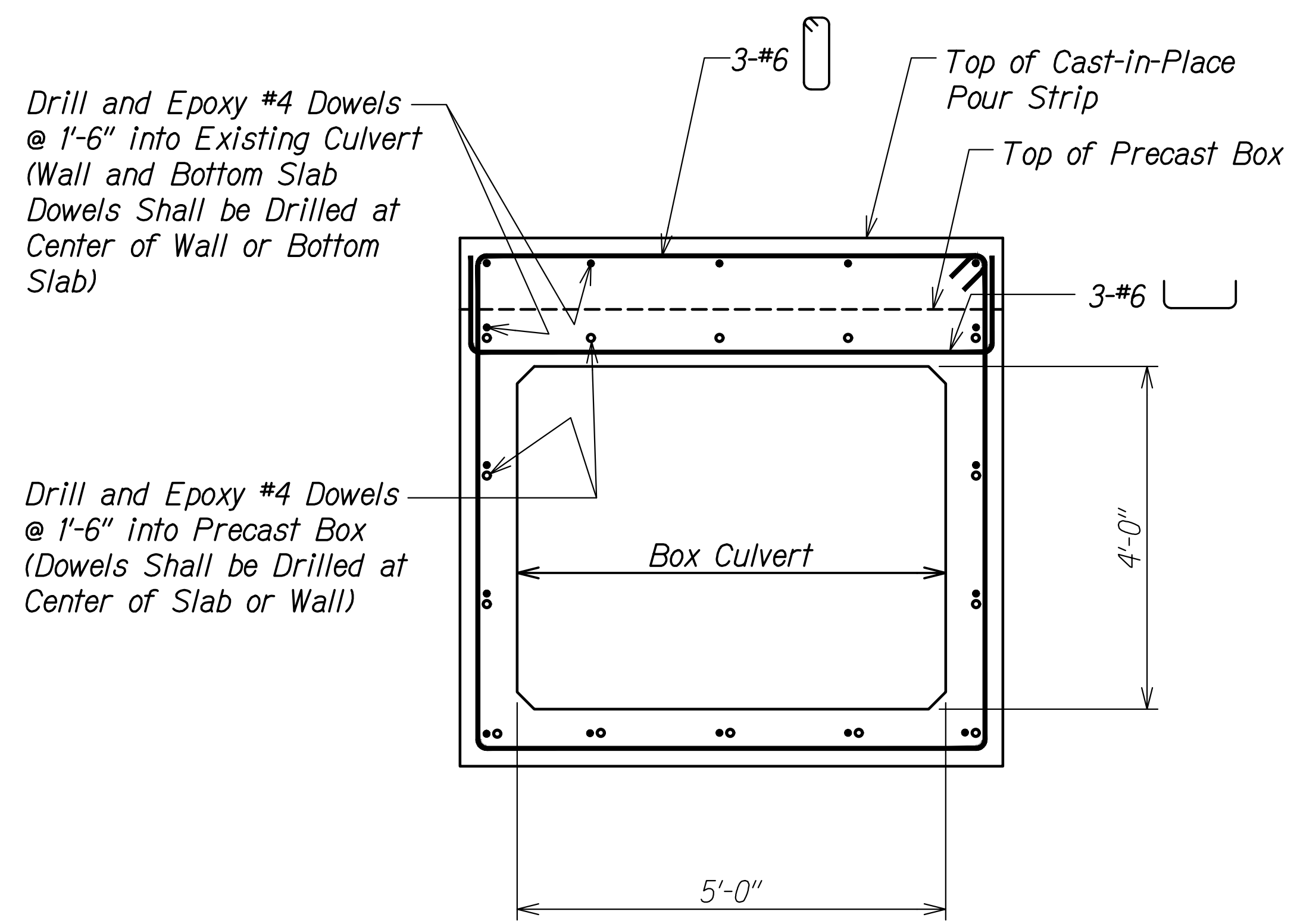
| DATE | REVISION |
|----------|---|
| 11/12/19 | 3 Reissuing plan for legibility only. No design changes have been made. |
| 9/20/19 | 1 Reissuing plan for legibility only. No design changes have been made. |

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
KUHIO HIGHWAY
CULVERT EXTENSION SECTIONS
KUHIO HIGHWAY SHORT-TERM IMPROVEMENTS KUAMOO ROAD TO TEMPORARY KAPAA BYPASS ROAD
Fed. Aid Proj. No. NH-056-1(50)
Scale: As Noted Date: July 2019
SHEET No. S2.2 OF 5 SHEETS

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| KAUAI | HAW. | NH-056-1(50) | 2019 | 200S-1 | 244 |



SECTION A
Scale: 3/8" = 1'-0" S2.2 | S2.2A



SECTION B
Scale: 3/8" = 1'-0" S2.2A | S2.2A

| LEGEND FOR AS-BUILT POSTINGS | |
|------------------------------|-------------------------------------|
| | Squiggly line for as-built deletion |
| | Double line for as-built deletion |
| Roadway | Text for as-built posting |

| | |
|--------|------------------------------|
| 5/4/22 | New Sheet RFI 121 Refr. S2.2 |
| DATE | REVISION |

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
KUHIO HIGHWAY
CULVERT EXTENSION SECTIONS
KUHIO HIGHWAY SHORT-TERM IMPROVEMENTS KUAMOO ROAD TO TEMPORARY KAPAA BYPASS ROAD
Fed. Aid Proj. No. NH-056-1(50)
Scale: As Noted Date: July 2019
SHEET No. S2.2A OF 5 SHEETS

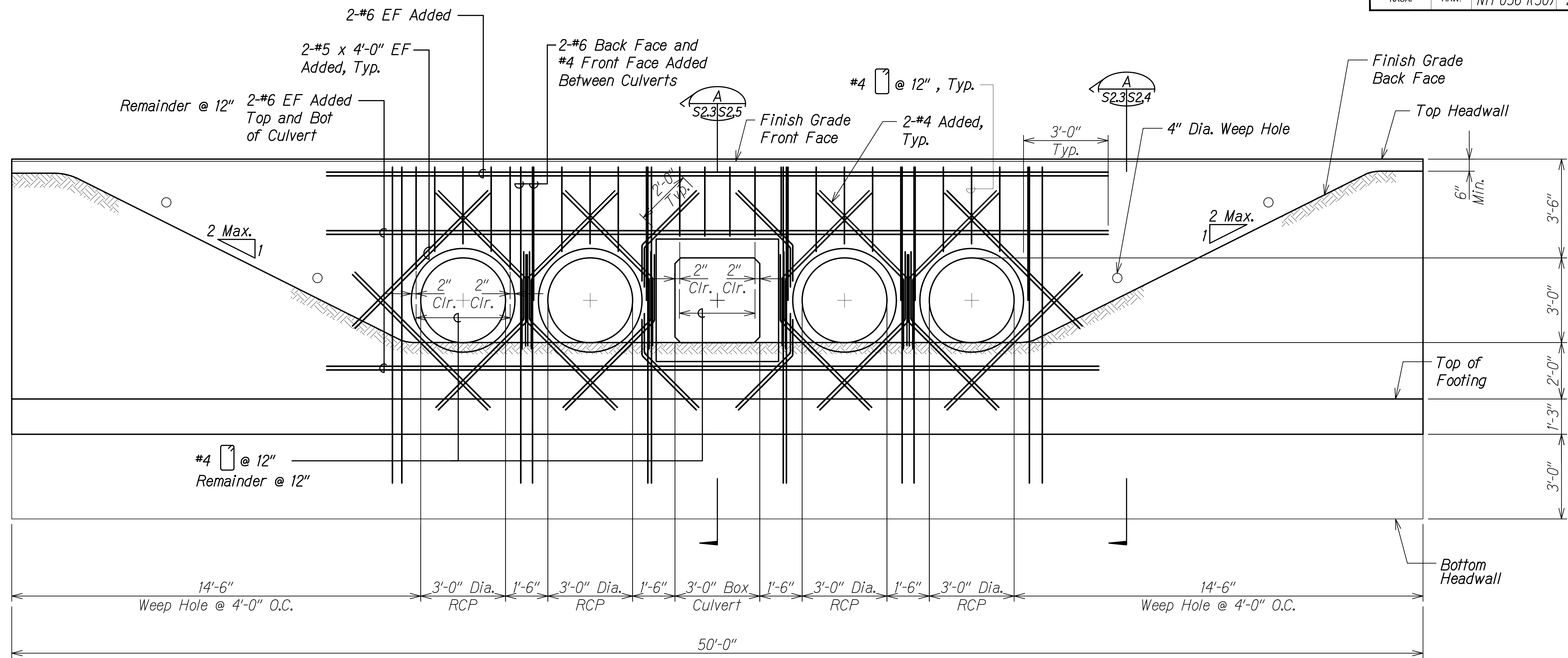
| | |
|---------------|------|
| ORIGINAL PLAN | DATE |
| NOTE BOOK | |
| DESIGNED BY | |
| QUANTITIES BY | |
| CHECKED BY | |

DRAWING NAME: Z:\00 DINGONG\18-029.0-KUHIO HWY KUAMOO ASB-WOC.TXA.01 CAD\07-02-24 ASB\KSI-S202A NEW SHT.DWG PLOT TIME: 07-01-24, 6:34 PM

"AS-BUILT"

200S-1

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| KAUAI | HAW. | NH-056-1(50) | 2019 | ADD. 201 | 244 |



NEW HEADWALL ELEVATION
Scale: 1/2" = 1'-0"

Note:
Typical wall reinforcement not shown for clarity.

| | | |
|---------------|-------------------|------|
| ORIGINAL PLAN | SURVEY PLOTTED BY | DATE |
| NOTE BOOK | DRAWN BY | " " |
| | DESIGNED BY | " " |
| | QUANTITIES BY | " " |
| | CHECKED BY | " " |

DRAWING NAME: Z:\00 DCONG\18-029.0-KUHIO HWY KUAMOO ASB-WOC TWA 01 CAD\07-02-24 ASB\KSI-5203 ADD1 ADD3.DWG PLOT TIME: 07-01-24, 6:22 PM

| | | |
|----------|----------|---|
| 11/12/19 | 3 | Reissuing plan for legibility only. No design changes have been made. |
| 9/20/19 | 1 | Reissuing plan for legibility only. No design changes have been made. |
| DATE | REVISION | |

CALVIN T. MIYAHARA
LICENSED PROFESSIONAL ENGINEER
NO. 8133-S
HAWAII, U.S.A.

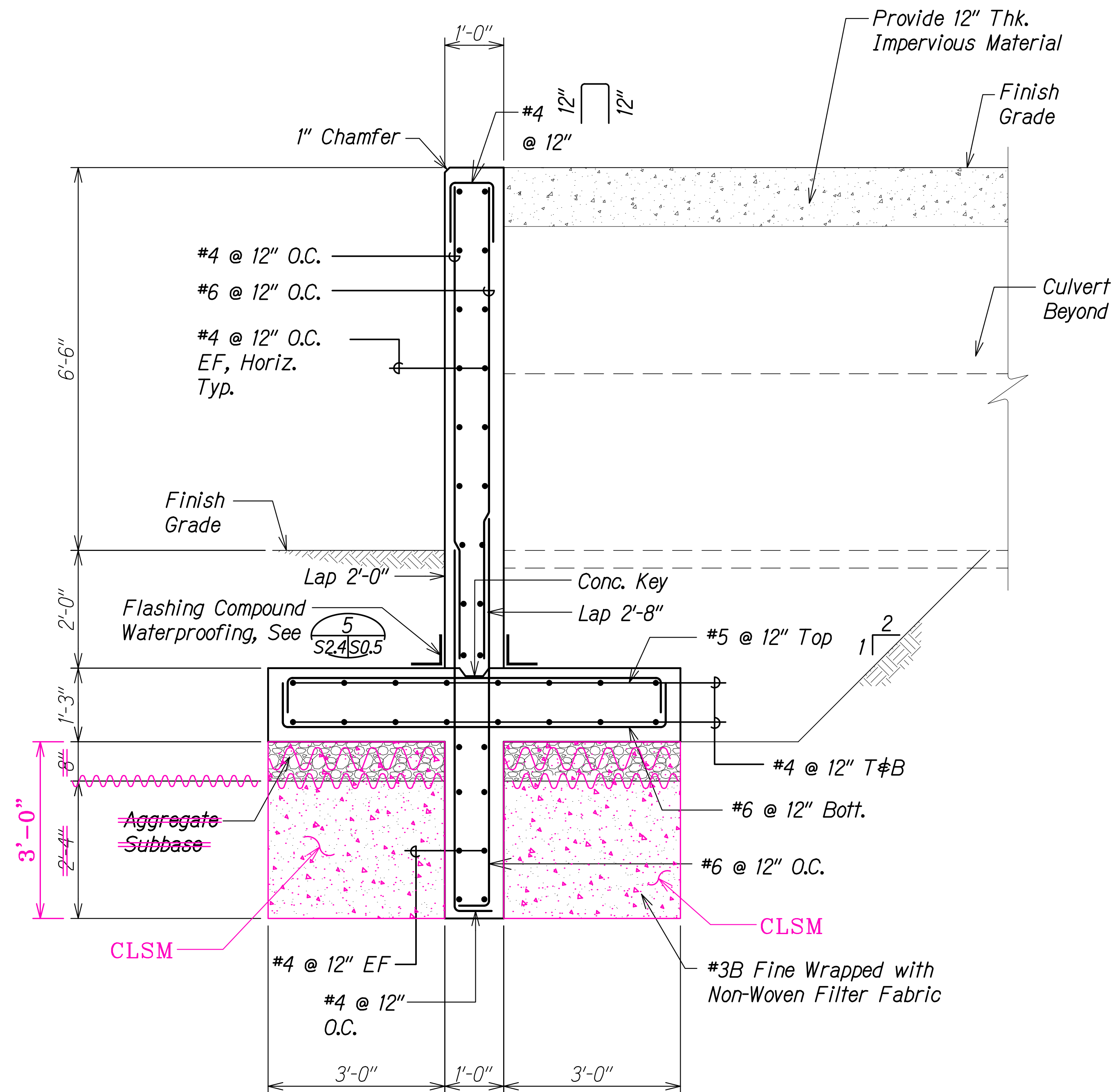
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Calvin Miyahara
SIGNATURE
EXPIRATION DATE OF THE LICENSE: 4-30-20

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
KUHIO HIGHWAY
HEADWALL ELEVATION
KUHIO HIGHWAY SHORT-TERM IMPROVEMENTS KUAMOO ROAD TO TEMPORARY KAPAA BYPASS ROAD
Fed. Aid Proj. No. NH-056-1(50)
Scale: As Noted Date: July 2019

SHEET No. S2.3 OF 5 SHEETS

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| KAUAI | HAW. | NH-056-1(50) | 2019 | ADD. 202 | 244 |



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

LEGEND FOR AS-BUILT POSTINGS

Squiggly line for as-built deletion

Double line for as-built deletion

Roadway Text for as-built posting

| | | |
|----------|----------|---|
| 11/12/19 | 3 | Reissuing plan for legibility only. No design changes have been made. |
| 9/20/19 | 1 | Reissuing plan for legibility only. No design changes have been made. |
| DATE | REVISION | |

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

KUHIO HIGHWAY

CULVERT EXTENSION SECTION

KUHIO HIGHWAY SHORT-TERM IMPROVEMENTS KUAMOO ROAD TO TEMPORARY KAPAA BYPASS ROAD

Fed. Aid Proj. No. NH-056-1(50)

Scale: As Noted Date: July 2019

SHEET No. S24 OF 5 SHEETS



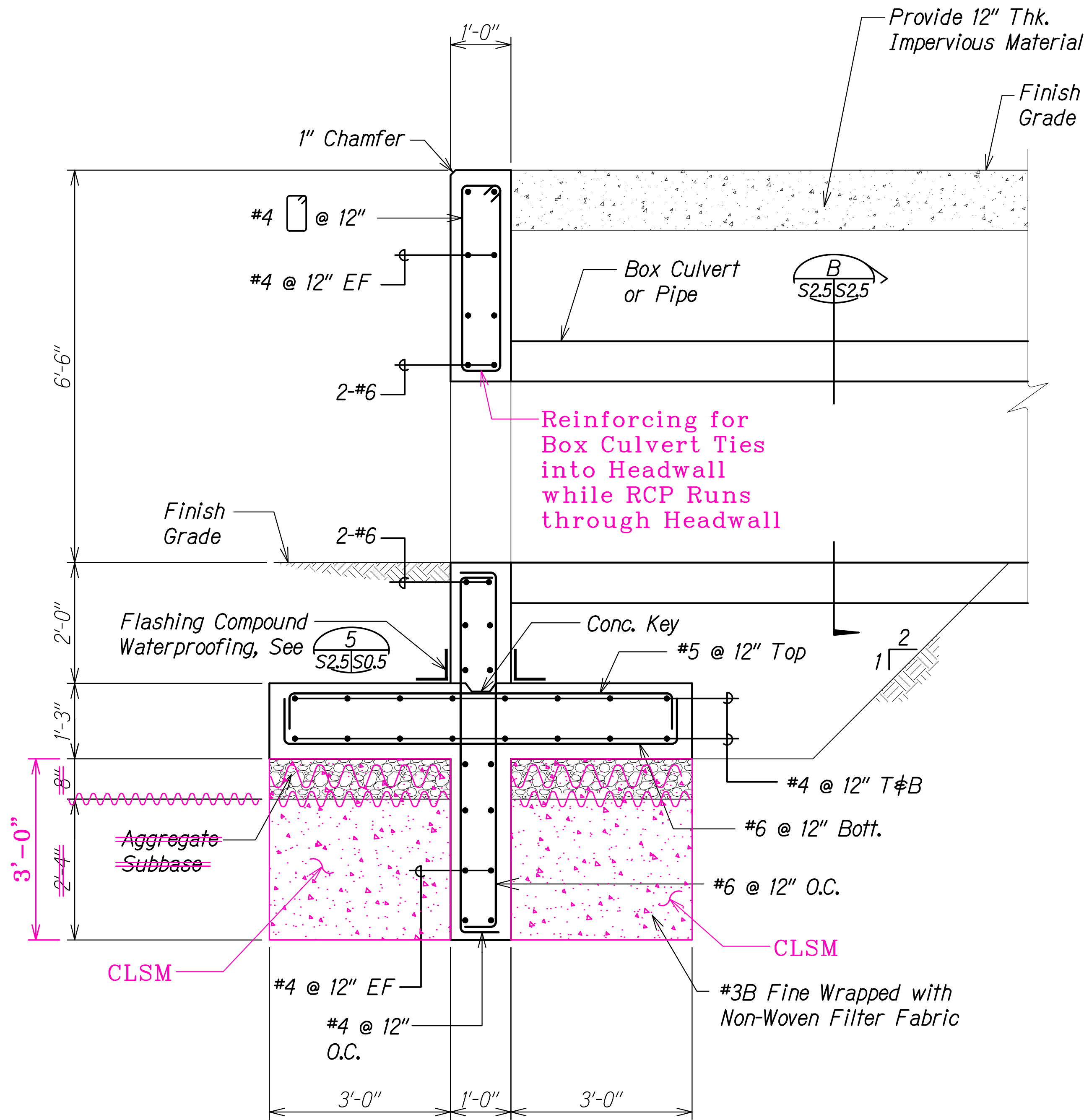
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Calvin T. Miyahara
SIGNATURE EXPIRATION DATE OF THE LICENSE 4-30-20

"AS-BUILT"

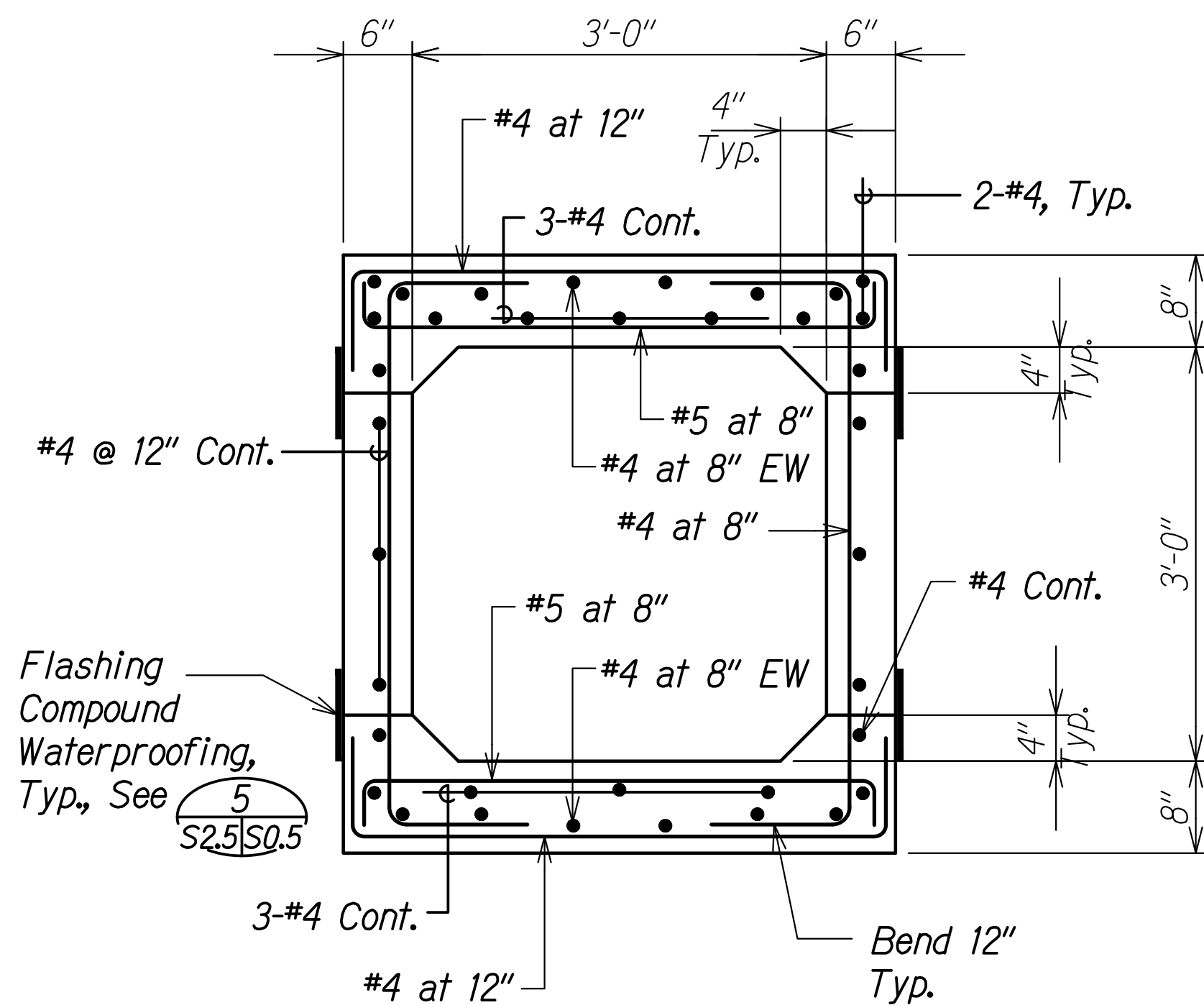
ADD. 202

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| KAUAI | HAW. | NH-056-1(50) | 2019 | ADD. 203 | 244 |



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

Note:
See Civil plans for pipe details.



TYPICAL SECTION
3'-0" x 3'-0" BOX CULVERT
Scale: 1" = 1'-0"

| LEGEND FOR AS-BUILT POSTINGS | |
|------------------------------|-------------------------------------|
| | Squiggly line for as-built deletion |
| | Double line for as-built deletion |
| Roadway | Text for as-built posting |

| DATE | REVISION |
|----------|---|
| 11/12/19 | 3 Reissuing plan for legibility only. No design changes have been made. |
| 9/20/19 | 1 Reissuing plan for legibility only. No design changes have been made. |

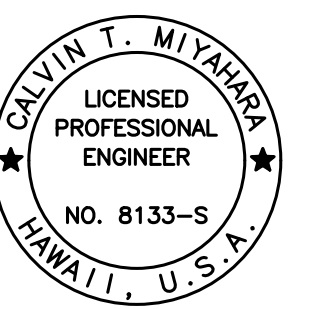
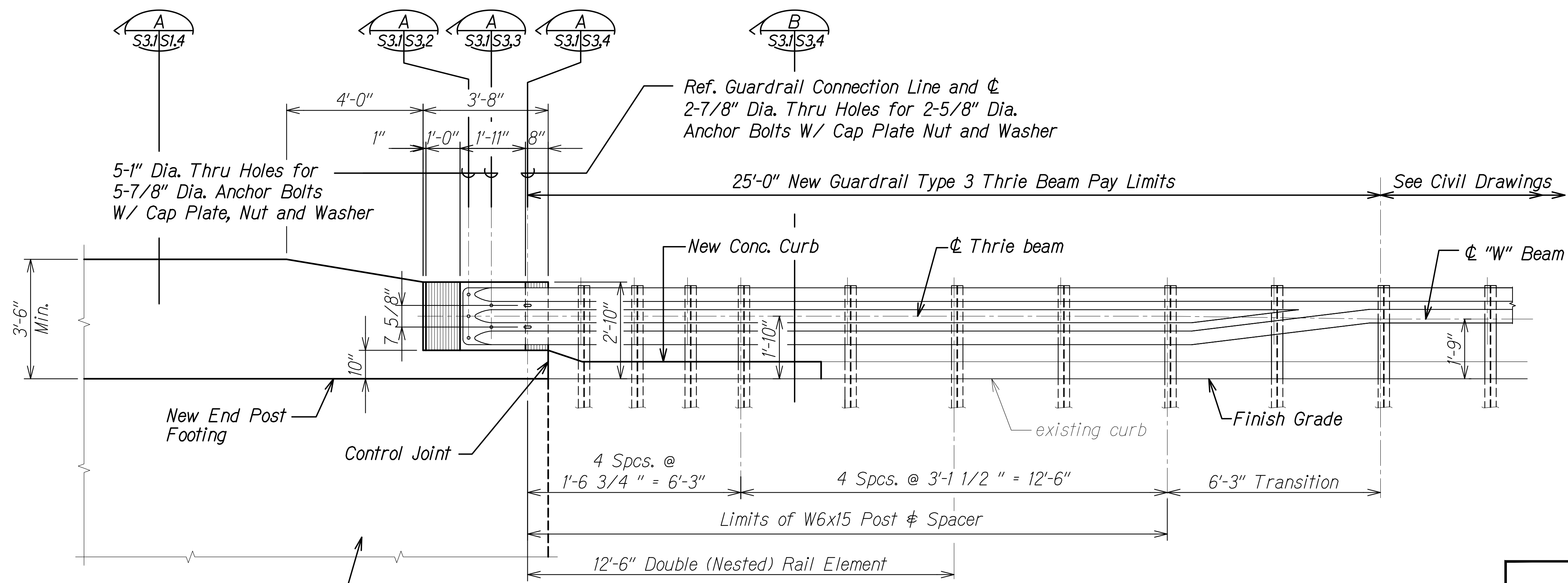
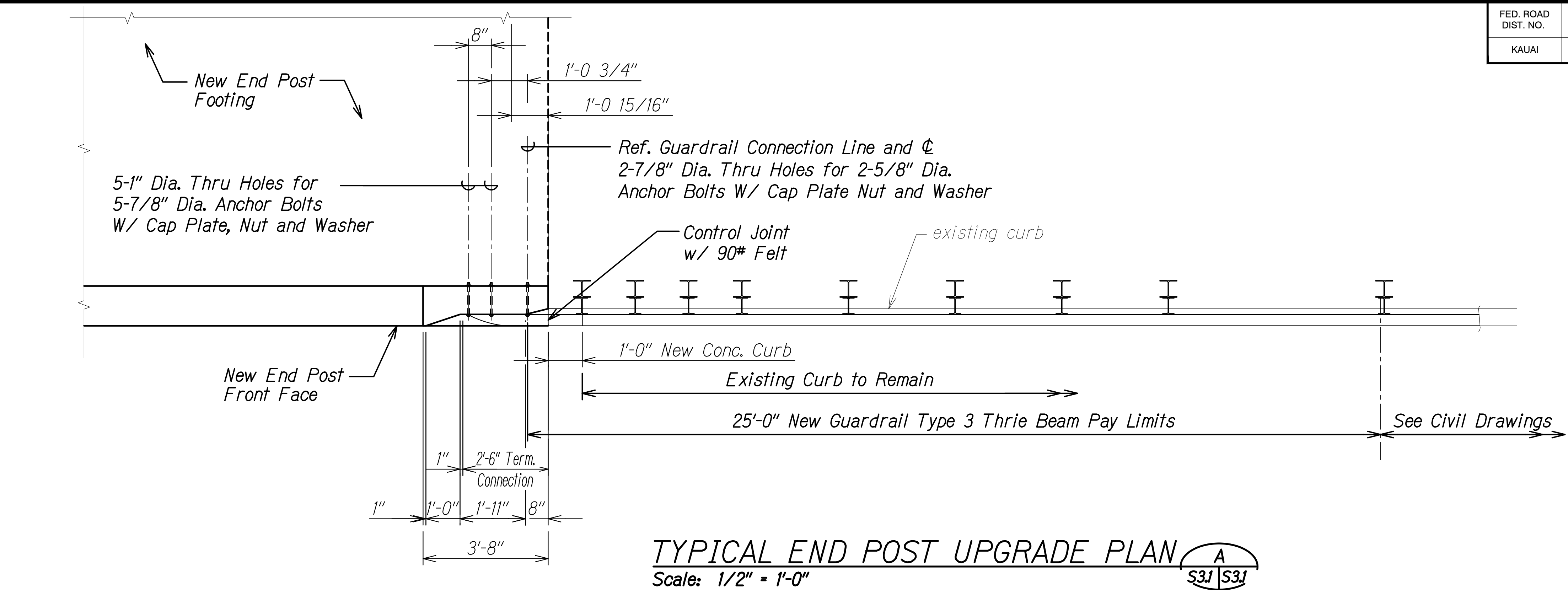
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
KUHIO HIGHWAY
CULVERT EXTENSION SECTIONS
KUHIO HIGHWAY SHORT-TERM IMPROVEMENTS KUAMOO ROAD TO TEMPORARY KAPAA BYPASS ROAD
Fed. Aid Proj. No. NH-056-1(50)
Scale: As Noted Date: July 2019
SHEET No. S25 OF 5 SHEETS



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Calvin Miyahara
SIGNATURE EXPIRATION DATE OF THE LICENSE

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| KAUAI | HAW. | NH-056-1(50) | 2019 | ADD. 204 | 244 |



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Signature: Calvin T. Miyahara
EXPIRATION DATE OF THE LICENSE: 4-30-20

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**TYPICAL END POST
PLAN AND ELEVATION**

**KUHIO HIGHWAY SHORT-TERM
IMPROVEMENTS KUAMOO ROAD
TO TEMPORARY KAPAA BYPASS ROAD**
Fed. Aid Proj. No. NH-056-1(50)

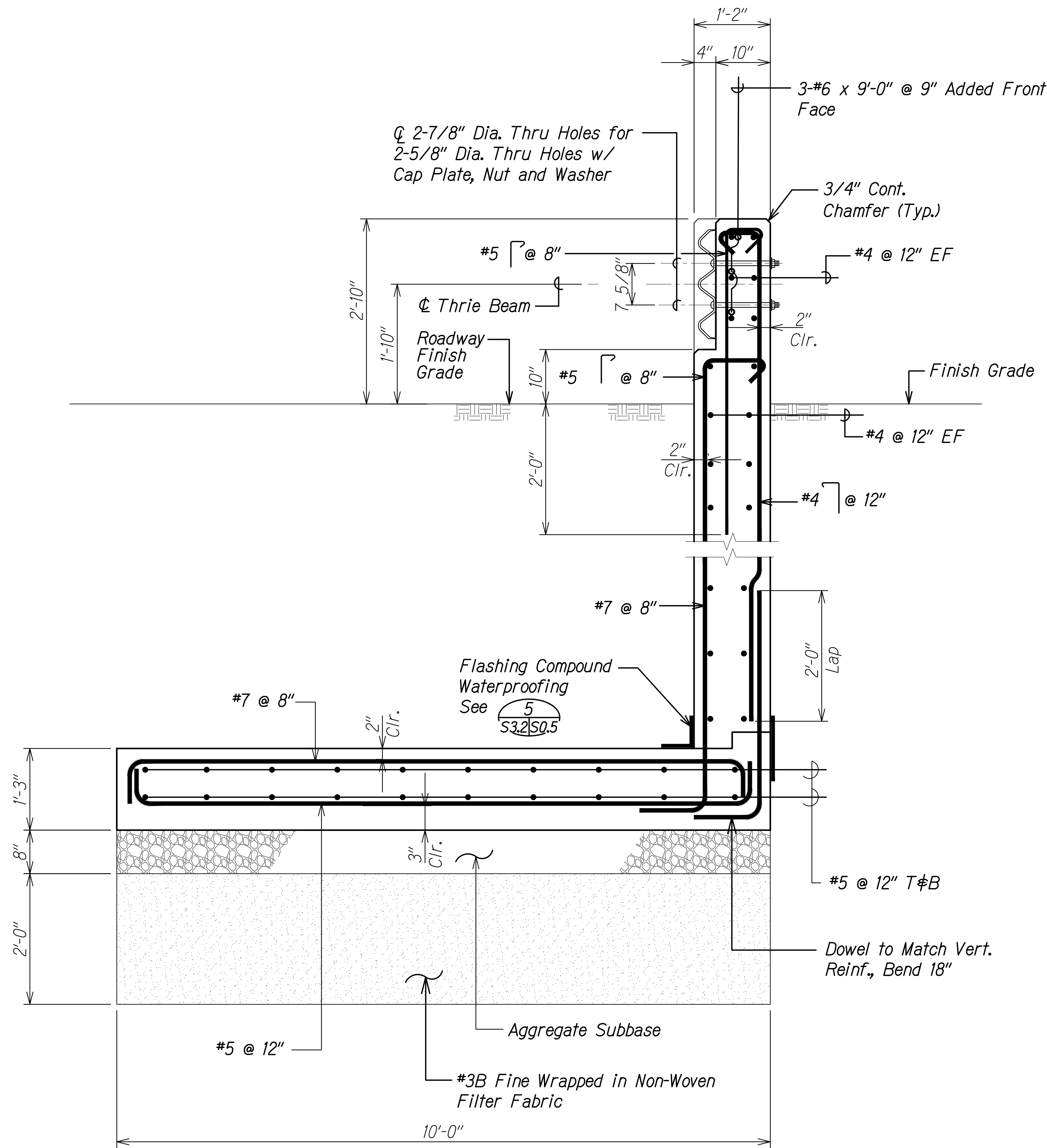
Scale: As Noted Date: July 2019

SHEET No. S3J OF 4 SHEETS

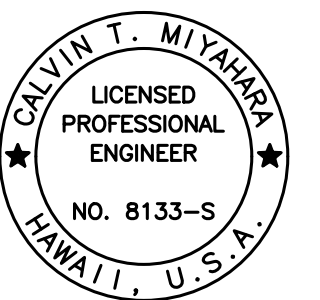
| | |
|---------------|------|
| ORIGINAL PLAN | DATE |
| NO. 1 | |
| NO. 2 | |
| NO. 3 | |
| NO. 4 | |
| NO. 5 | |
| NO. 6 | |
| NO. 7 | |
| NO. 8 | |
| NO. 9 | |
| NO. 10 | |

DRAWING NAME: Z:\00 DCONING\18-029.0-KUHIO HWY KUAMOO ASB-WOC TIA 01 CAD\07-02-24 ASB-KSI-S301 ADD1 ADD3.DWG PLOT TIME: 07-01-24, 6:23 PM

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| KAUAI | HAW. | NH-056-1(50) | 2019 | ADD. 206 | 244 |



SECTION A
Scale: 1" = 1'-0" S3.1 S3.3



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Signature: Calvin Miyahara
EXPIRATION DATE OF THE LICENSE: 4-30-20

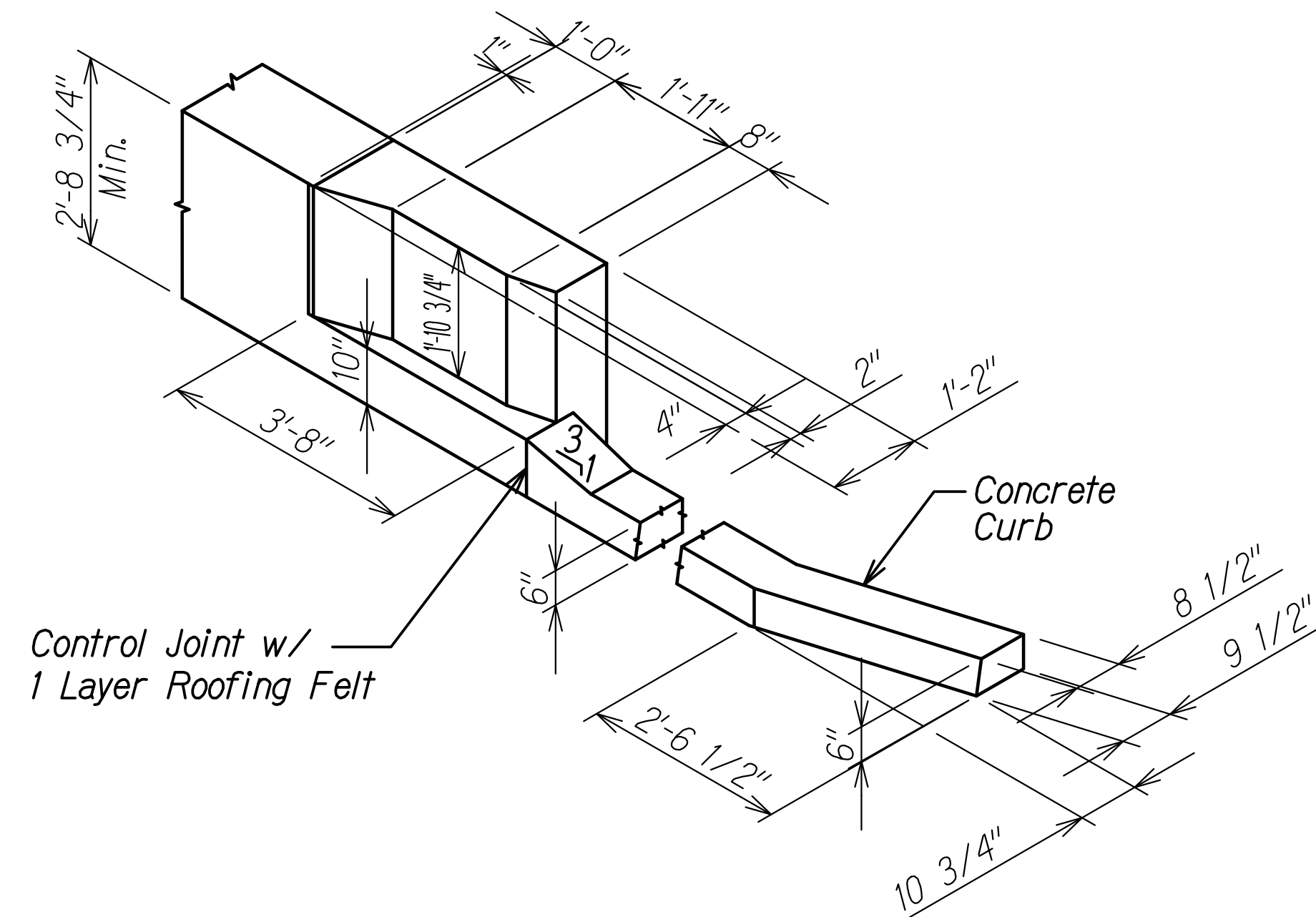
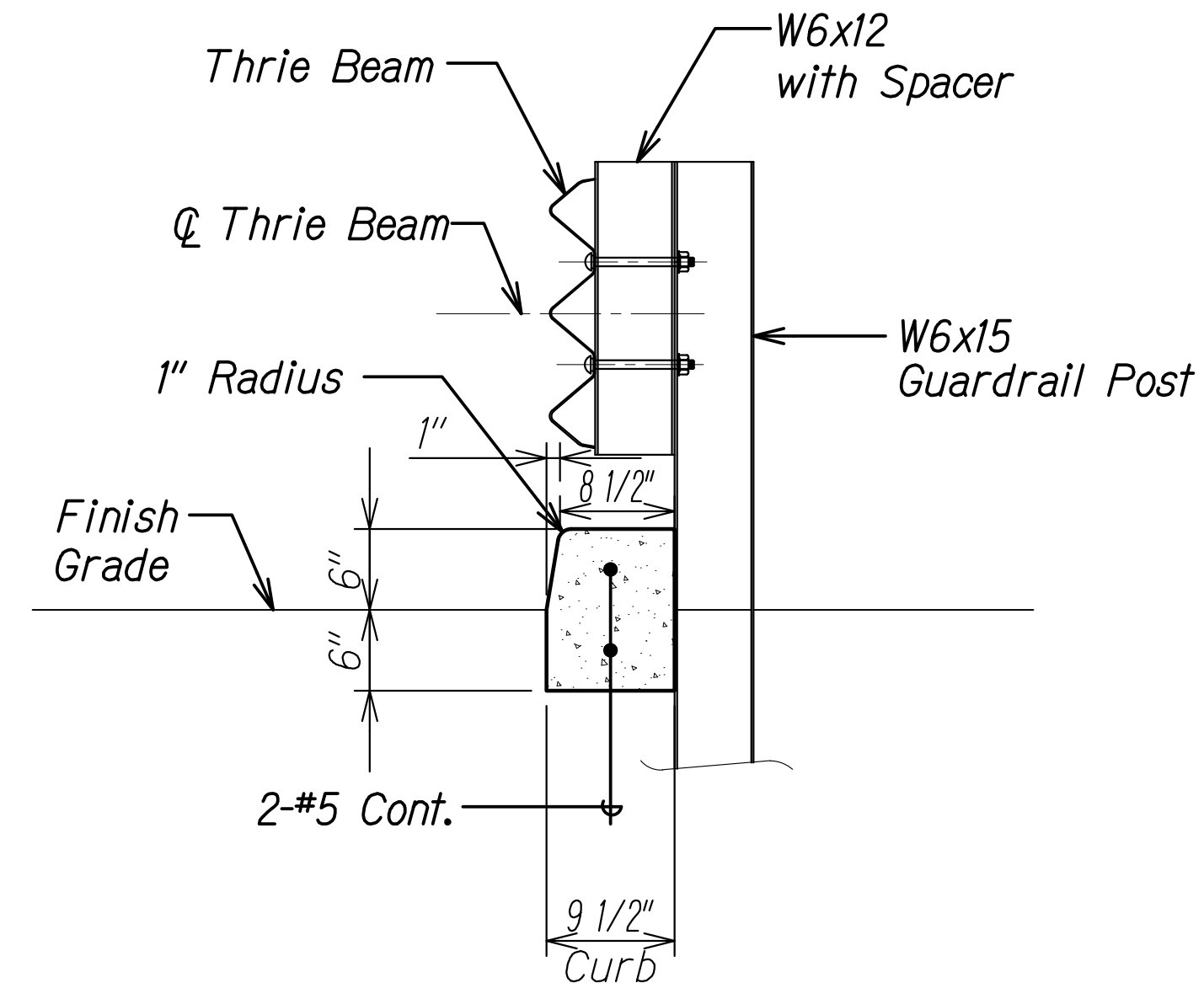
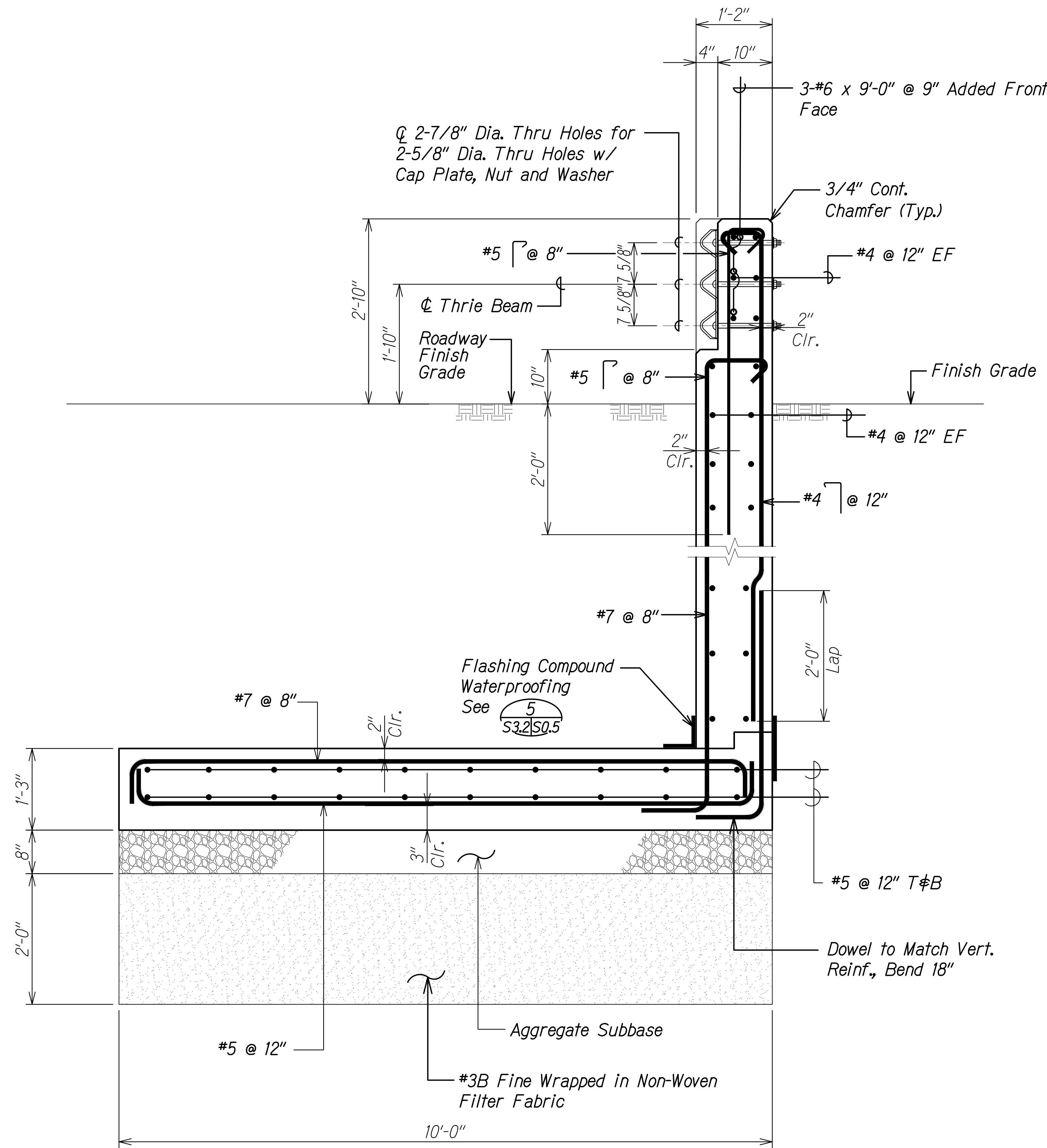
| | | |
|----------|----------|---|
| 11/12/19 | 3 | Reissuing plan for legibility only. No design changes have been made. |
| 9/20/19 | 1 | Reissuing plan for legibility only. No design changes have been made. |
| DATE | REVISION | |

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL END POST SECTION
KUHIO HIGHWAY SHORT-TERM IMPROVEMENTS KUAMOO ROAD TO TEMPORARY KAPAA BYPASS ROAD
Fed. Aid Proj. No. NH-056-1(50)
Scale: As Noted Date: July 2019

SHEET No. S3.3 OF 4 SHEETS

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| KAUAI | HAW. | NH-056-1(50) | 2019 | ADD. 207 | 244 |



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Signature: Calvin T. Miyahara
Date: 4-30-20
Expiration Date of the License

| DATE | REVISION |
|----------|---|
| 11/12/19 | 3 Reissuing plan for legibility only. No design changes have been made. |
| 9/20/19 | 1 Reissuing plan for legibility only. No design changes have been made. |

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
TYPICAL END POST
SECTIONS AND DETAIL
KUHIO HIGHWAY SHORT-TERM IMPROVEMENTS KUAMOO ROAD TO TEMPORARY KAPAA BYPASS ROAD
Fed. Aid Proj. No. NH-056-1(50)
Scale: As Noted Date: July 2019
SHEET No. S3.4 OF 4 SHEETS