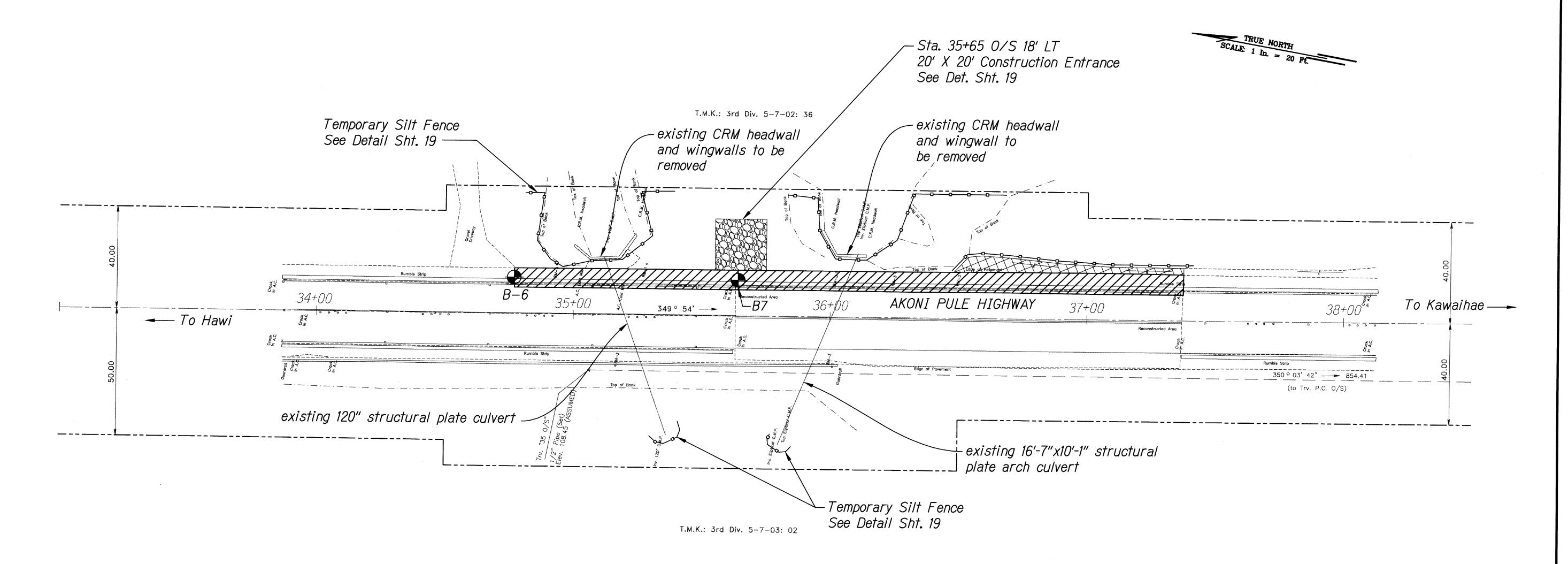
FED. ROAD	STATE	FED. AID	FISCAL	SHEET	TOTAL
DIST. NO.		PROJ. NO.	YEAR	NO.	SHEETS
HAWAII	HAW.	ER-15(19)	2009	26	59



<u>Demolition And Erosion Control Plan - Site 3</u> Scale: 1" = 20'

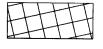
NOTES:

- 1. Survey conducted by Imata and Associates, Inc. dated December 2008.
- 2. All property azimuths shown were adjusted to match construction plan azimuths.
- 3. Horizontal controls: adopted centerline road monuments with record azimuths.
- 4. Baseline stations shown as "(field)" are nails staked by others and stations are painted on pavement. Construction plan stations were calculated for those nails found and noted as "(const. plan)".
- 5. Elevations were assumed.
- 6. Underground utilities shown are for information only. Contractor shall be responsible to verify prior to construction.

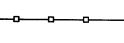
LEGEND:

B-6**+**

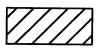
Approx. Boring Location



Approx. Limits of A.C. Swale Removal And Reconstruction (Exact Limits To Be Determined By Engineer In Field)

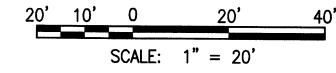


Temporary Silt Fence

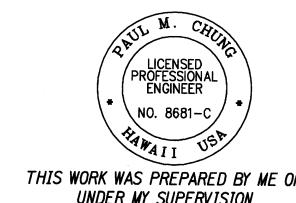


Approx. Limits Of Shoulder Removal And Reconstruction (Exact Limits To Be Determined By Engineer In Field)

GRAPHICAL SCALE:



STATE OF HAWAII DEPARTMENT OF TRANSPORTATION



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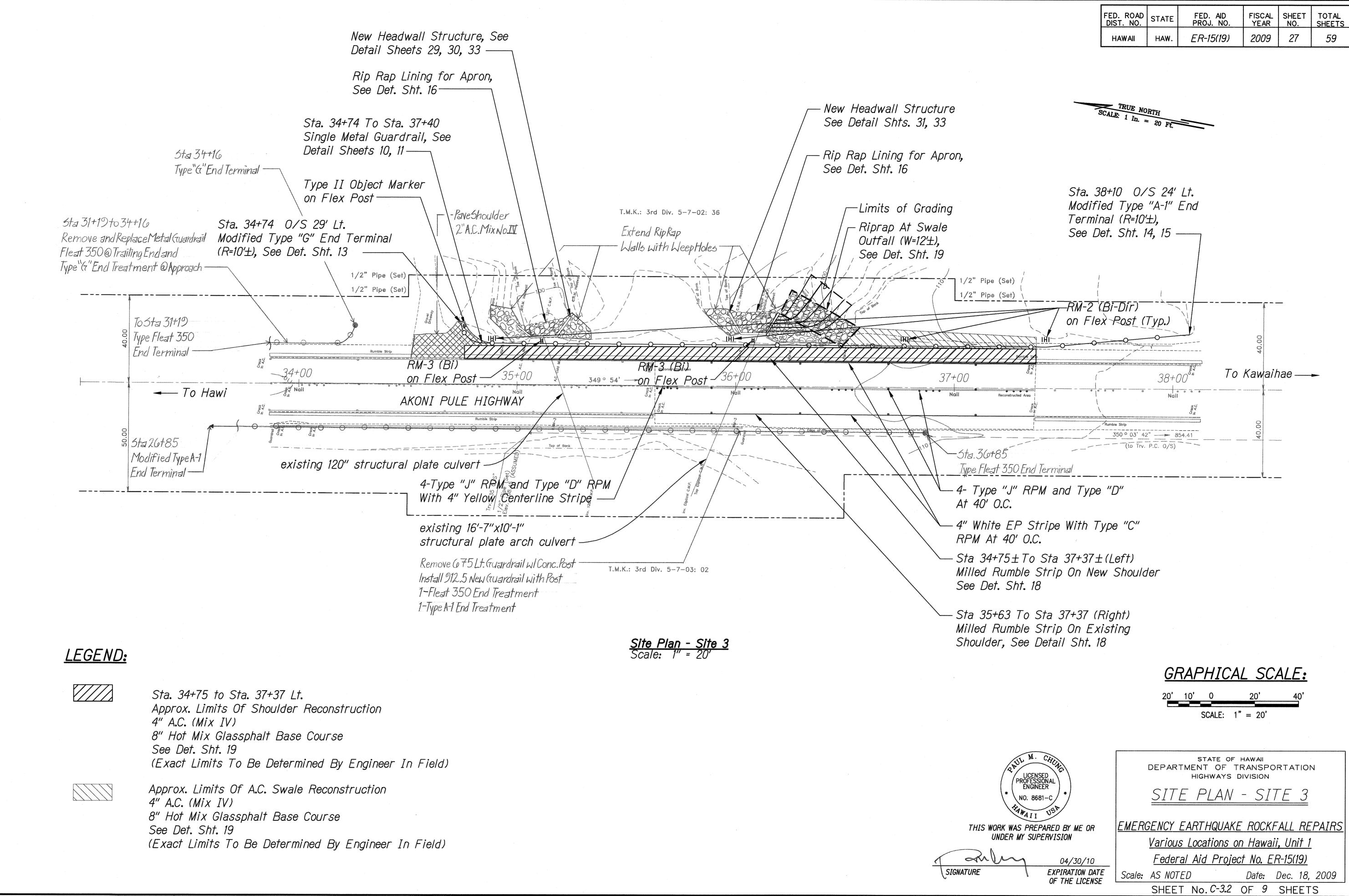
04/30/10 EXPIRATION DATE OF THE LICENSE

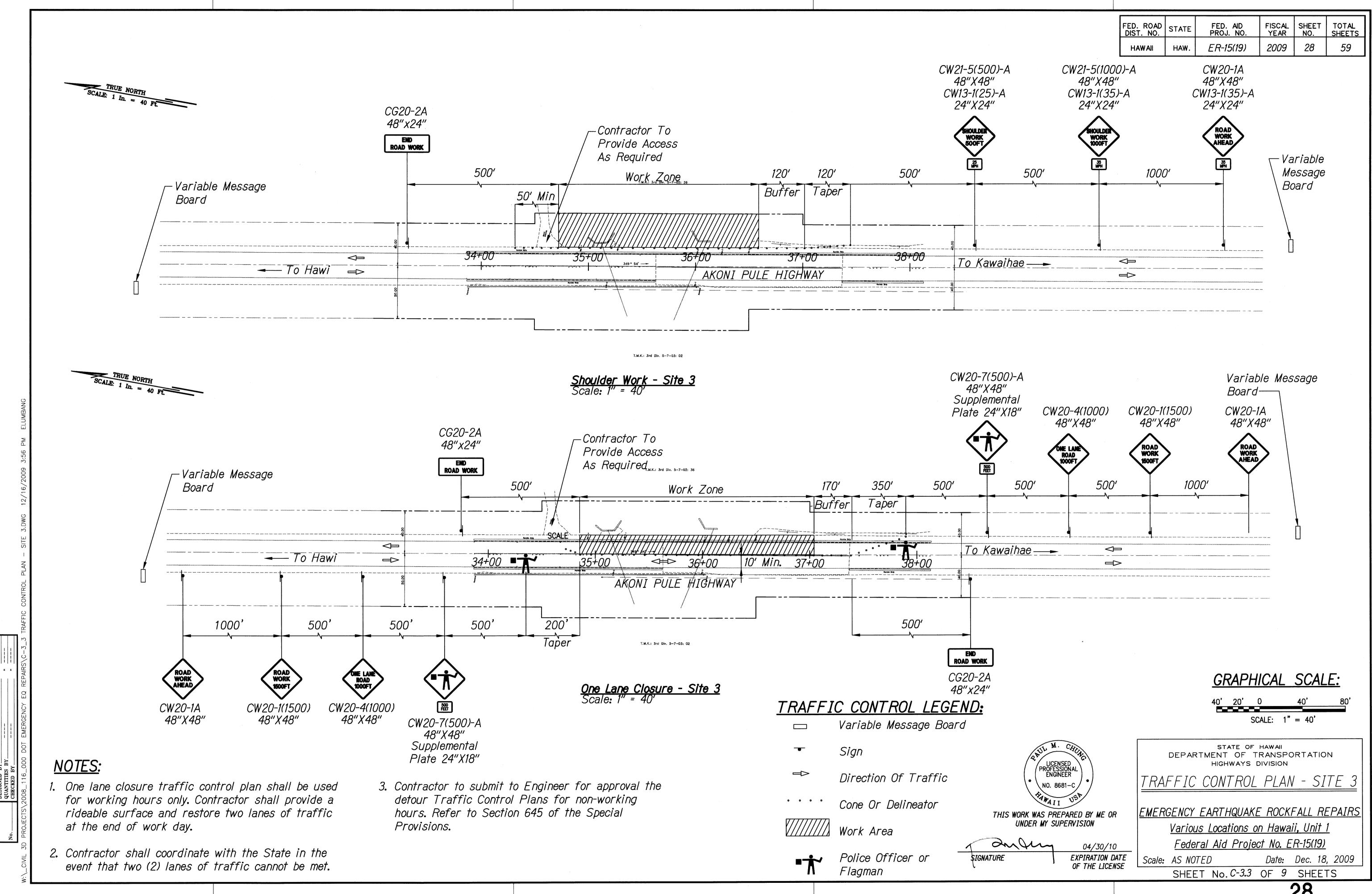
HIGHWAYS DIVISION |DEMOLITION AND EROSION CONTROL PLAN - SITE 3

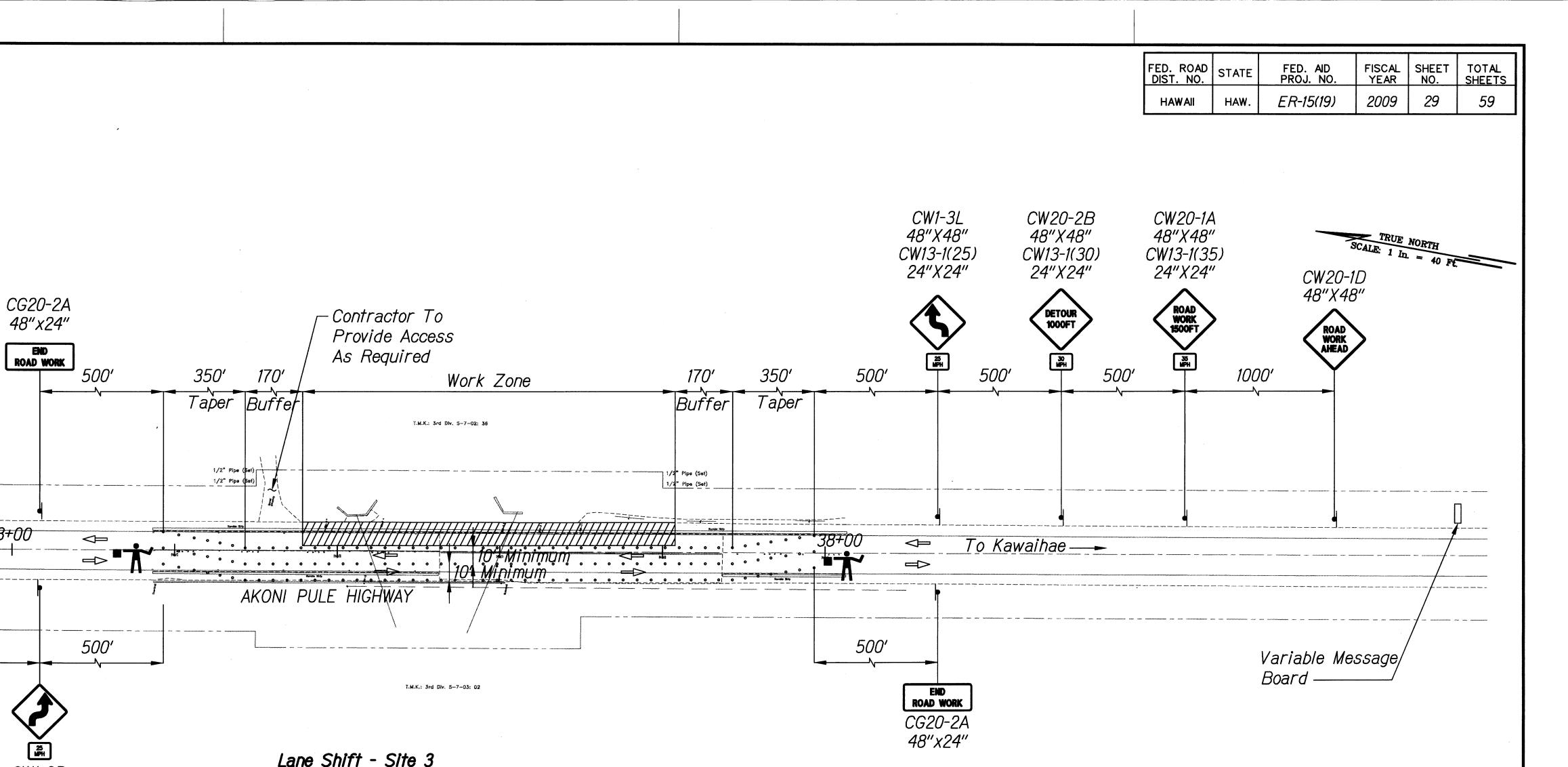
EMERGENCY EARTHQUAKE ROCKFALL REPAIRS

Various Locations on Hawaii, Unit 1 Federal Aid Project No. ER-15(19) Scale: AS NOTED

Date: Dec. 18, 2009 SHEET No. C-3.1 OF 9 SHEETS







CW13-1(25)

24"X24"

TRAFFIC CONTROL LEGEND:

- 1. One lane closure traffic control plan shall be used for working hours only. Contractor shall provide a rideable surface and restore two lanes of traffic at the end of work day.
- 2. Contractor shall coordinate with the State in the event that two (2) lanes of traffic cannot be met.

NOTES:

3. Contractor to submit to Engineer for approval the detour Traffic Control Plans for non-working hours. Refer to Section 645 of the Special Provisions.

- Variable Message Board
- Sign
- Direction Of Traffic
- Cone Or Delineator

(/////// Work Area

Police Officer or

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION TRAFFIC CONTROL PLAN - SITE 3

> EMERGENCY EARTHQUAKE ROCKFALL REPAIRS Various Locations on Hawaii, Unit 1

Federal Aid Project No. ER-15(19) Scale: AS NOTED Date: Dec. 18, 2009 SHEET No. C-3.4 OF 9 SHEETS

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GRAPHICAL SCALE: SCALE: 1" = 40'

— Variable Message

CW20-1D 48"X48"

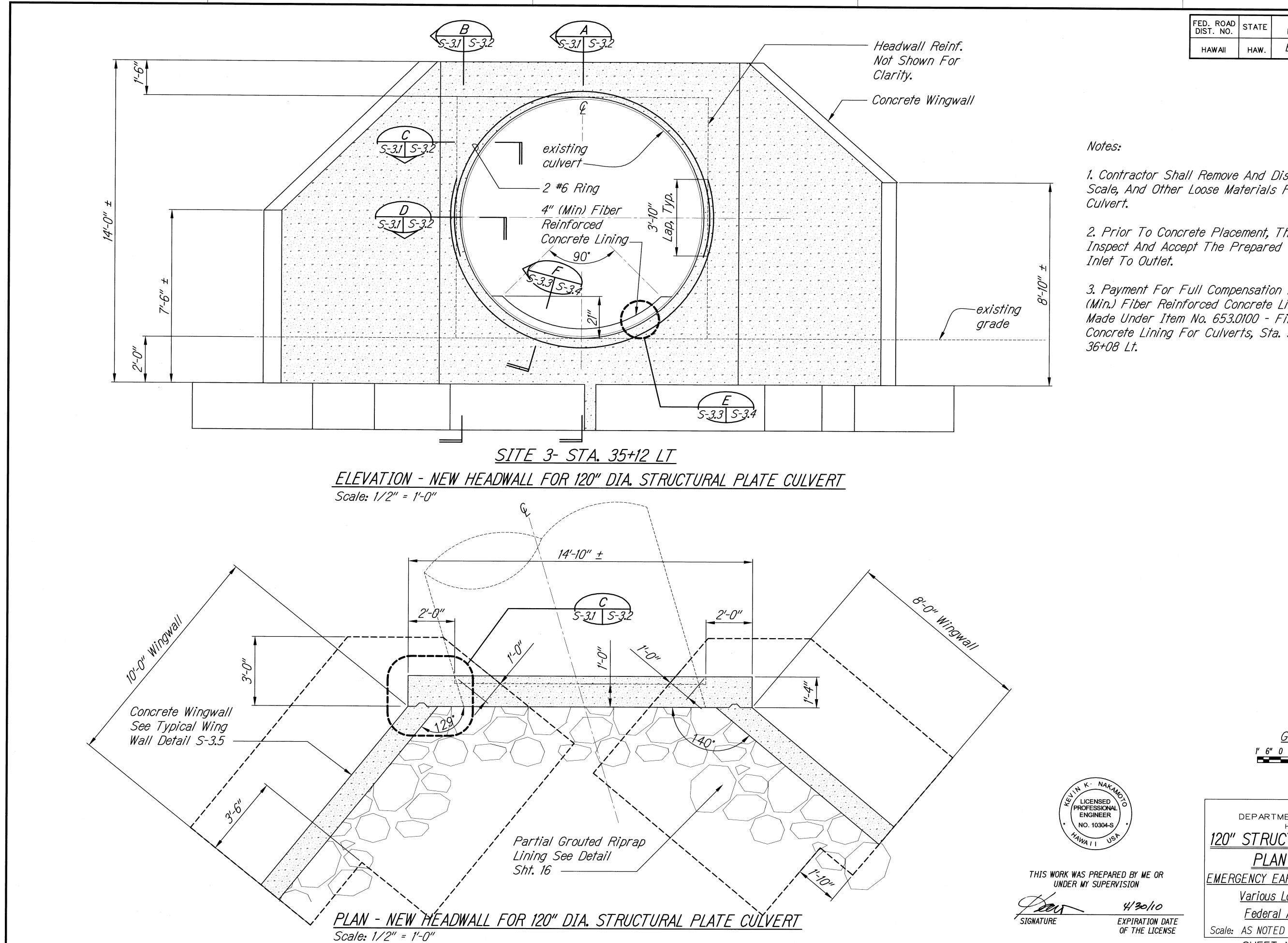
ROAD WORK 1500FT

CW13-1(35) 24"X24"

DETOUR 1000FT

48"X48"

CW13-1(30) 24"X24"



FED. AID PROJ. NO. FISCAL SHEET YEAR NO. TOTAL SHEETS ER-15(19) 2009 *30*

1. Contractor Shall Remove And Dispose Of Dirt, Rust, Scale, And Other Loose Materials From Interior Of

2. Prior To Concrete Placement, The Engineer Will Inspect And Accept The Prepared Culvert Surface From

3. Payment For Full Compensation For The Work And 4" (Min.) Fiber Reinforced Concrete Lining Material Shall Be Made Under Item No. 653.0100 - Fiber Reinforced Concrete Lining For Culverts, Sta. 35+12 Lt. And Sta.

> GRAPHIC SCALES SCALE: 1/2" = 1'-0"

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

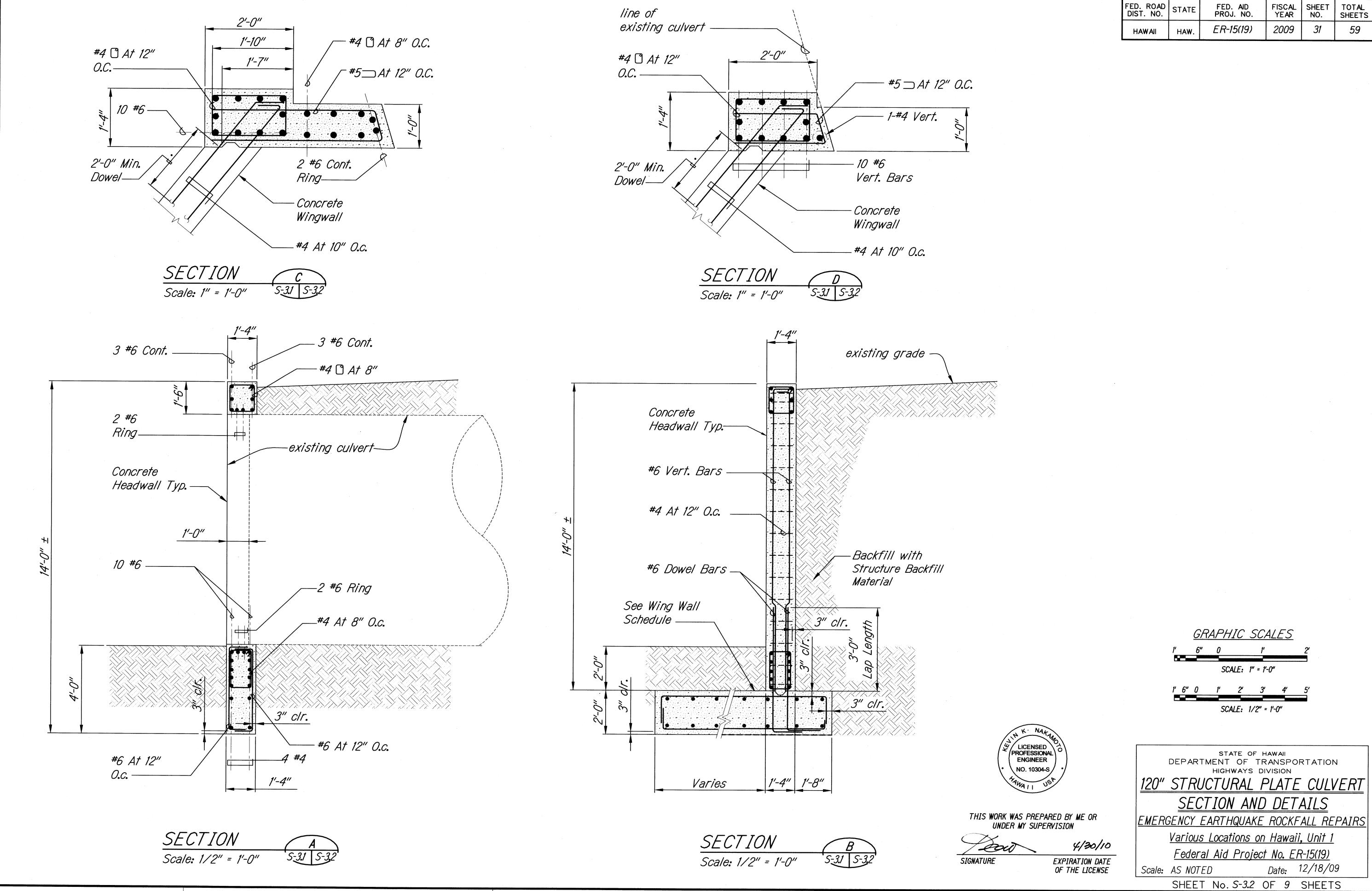
120" STRUCTURAL PLATE CULVERT

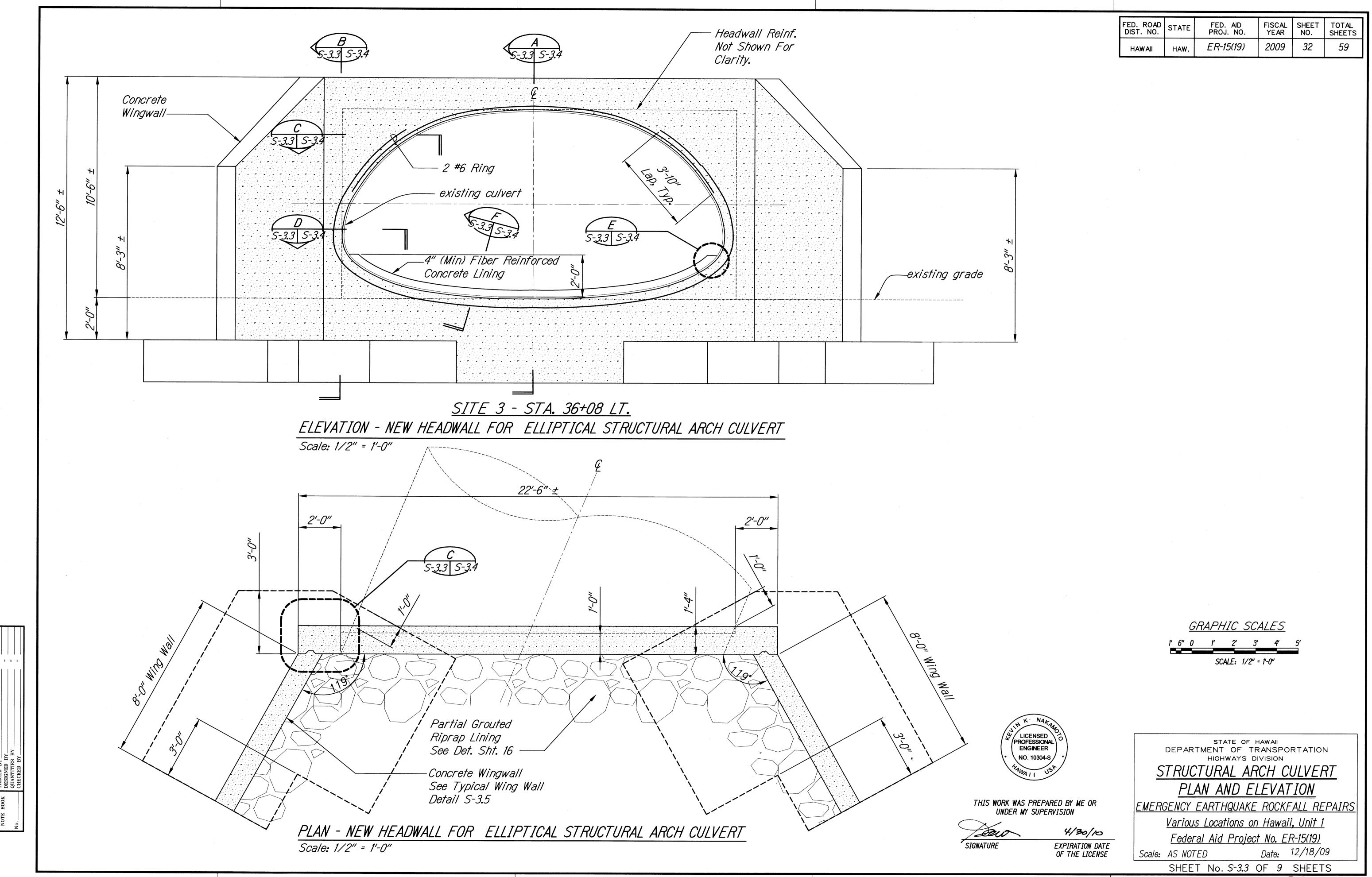
PLAN AND ELEVATION

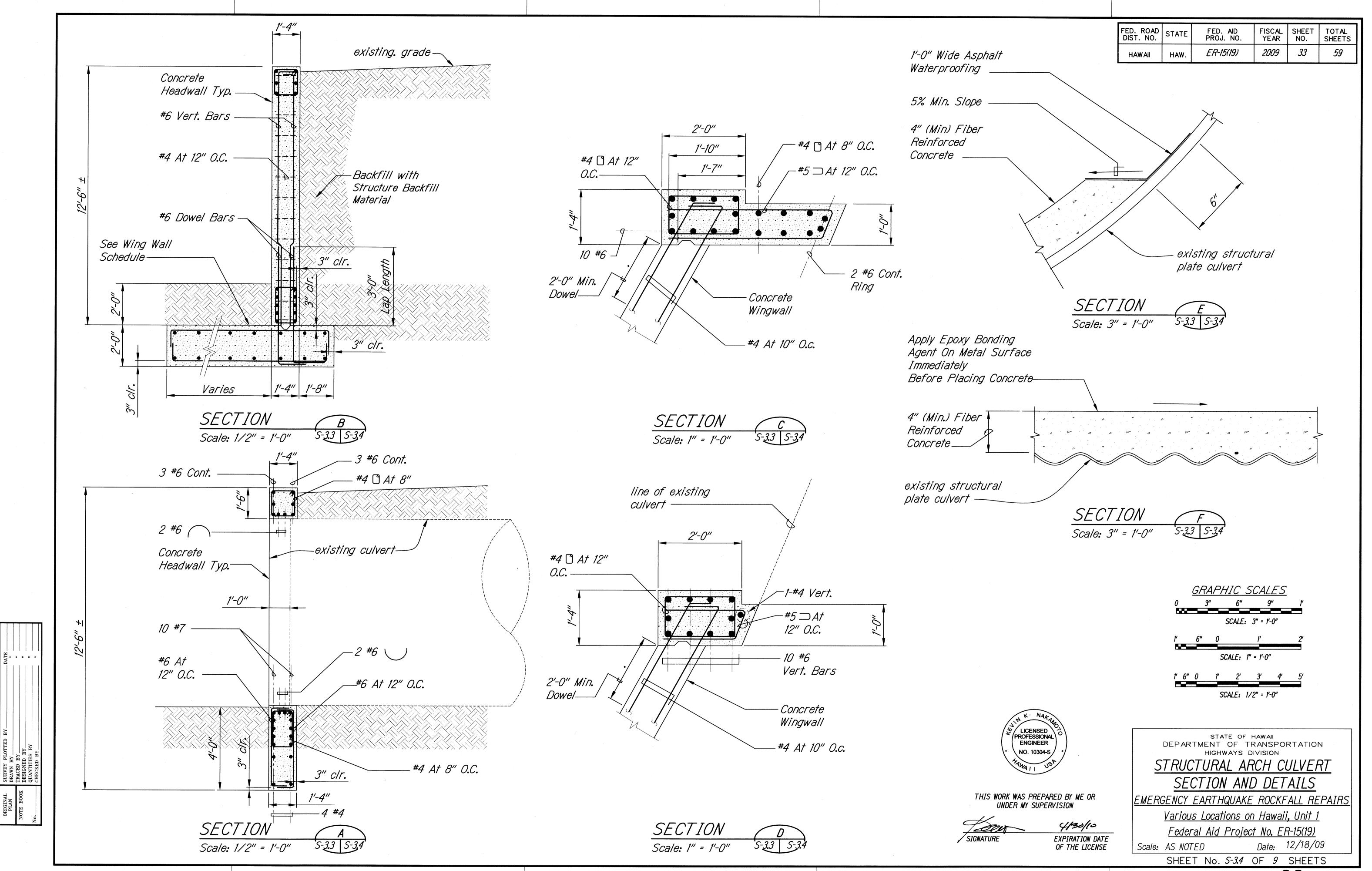
EMERGENCY EARTHQUAKE ROCKFALL REPAIRS

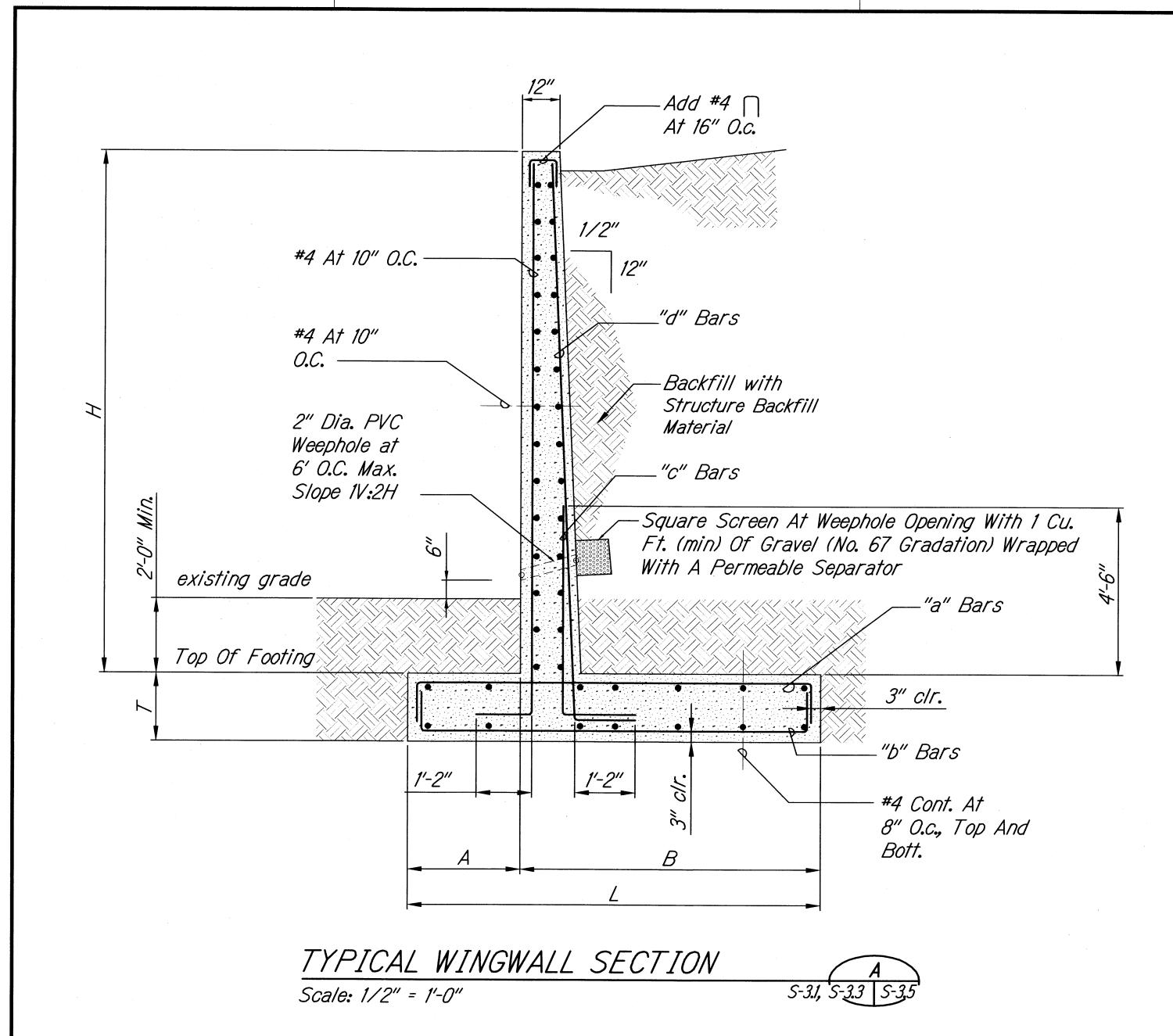
Various Locations on Hawaii, Unit i Federal Aid Project No. ER-15(19) Date: 12/18/09

SHEET No. 5-3.1 OF 9 SHEETS

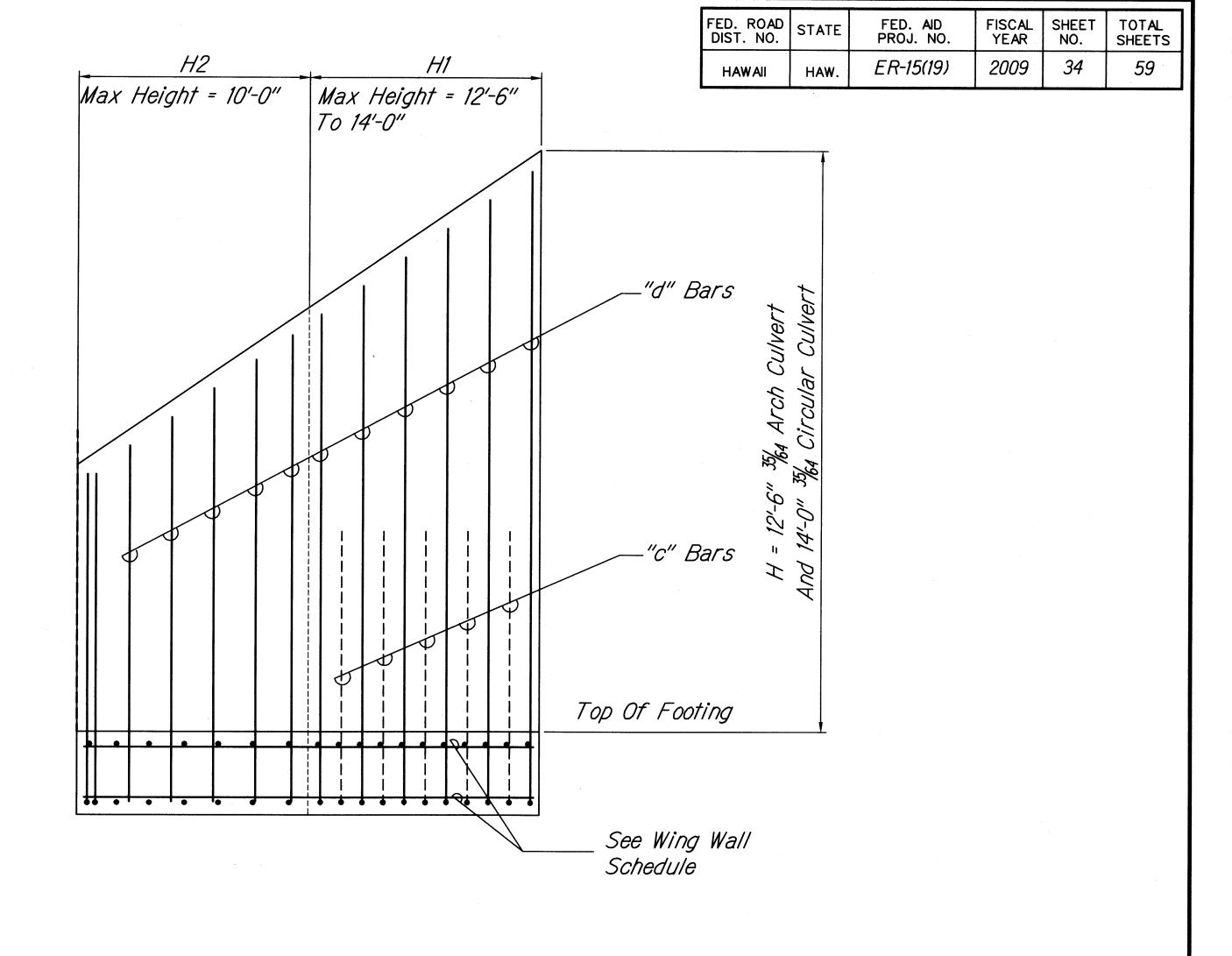




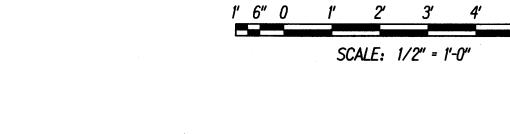




WINGWALL SCHED	ULE OF DIMENSIONS	AND REINFORCING
Wall Max	H1	H2
"H" (Max)	14'-0"	10'-0"
L	10'-6"	6'-8"
T	2'-0"	2'-0"
А	5'-7"	1'-9"
В	4'-11"	4'-11"
а	#7 At 10" O.C.	#5 At 6" O.C.
Ь	#7 At 12" O.C.	#5 At 12" O.C.
С	#7 At 12" O.C.	
d	#7 At 12" O.C.	#7 At 12" O.C.









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4/30/10 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

GRAPHIC SCALES

WINGWALL SECTION AND DETAILS

EMERGENCY EARTHQUAKE ROCKFALL REPAIRS Various Locations on Hawaii, Unit 1

Federal Aid Project No. ER-15(19) Date: 12/18/09 Scale: AS NOTED

SHEET No. S-3.5 OF 9 SHEETS

