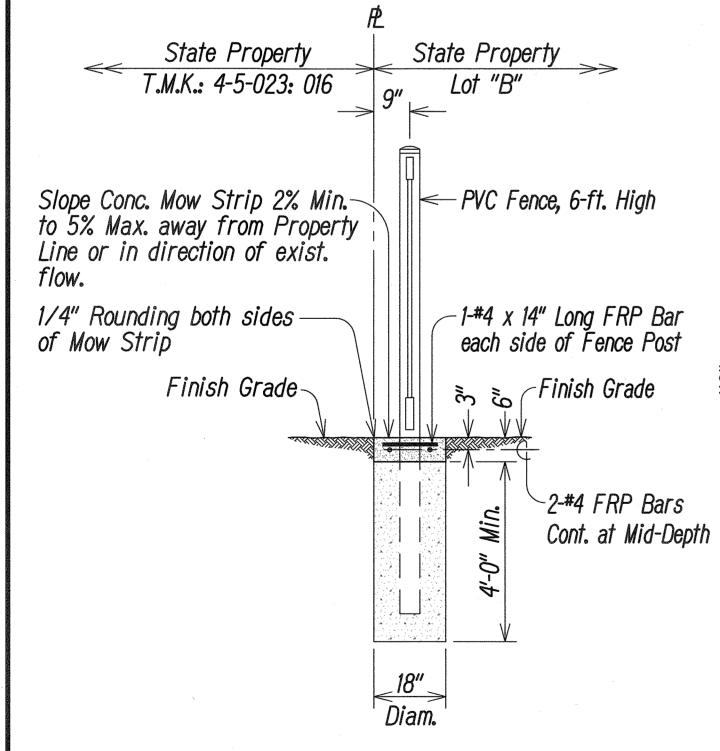
FIBER REINFORCED POLYMER (FRP) BAR NOTES:

- 1. Fiber Reinforced Polymer (FRP) rebar shall have a minimum tensile strength of 110 ksi for #4 bar and smaller. All others shall have a minimum tensile strength of 95 ksi. The allowable stress is equal to 1/4 of the tensile strength.
- 2. The modulus of elasticity of the FRP bar shall be a minimum of 5,900,000 psi.
- 3. Minimum concrete cover for the FRP bars shall be 3/4" unless otherwise noted.
- 4. Minimum lap splice lengths for the FRP bars shall be 42 bar diameters unless otherwise noted.
- 5. All FRP bars shall be securely tied in place.
- 6. The FRP bars may be cut in the field with a masonry or diamond blade.
- 7. All work including materials and bends shall follow Manufacturer's recommendations.
- 8. The FRP bars will not be paid for separately and shall be considered incidental to the PVC Fence and PVC Gate.

- 1. Color shall be tan.
- 2. Post spacing shall be adjusted for installations along curved property lines as follows and as directed by the Engineer.

,		
	Property line Radius, R, ft.	Max. Post Spacing, in.
	20	48
	40	72
	<u>></u> 100	95

3. The gap between the post and walls shall be 3" max.



SECTION

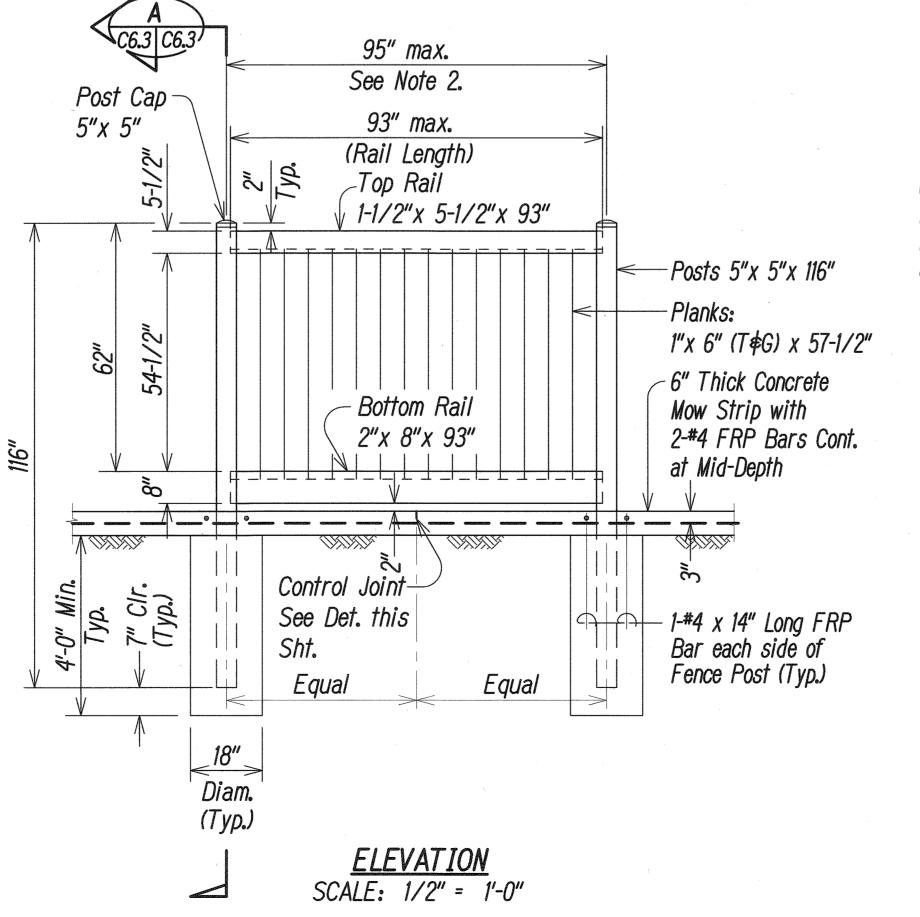
SCALE: 1/2" = 1'-0" C6.3 C6.3

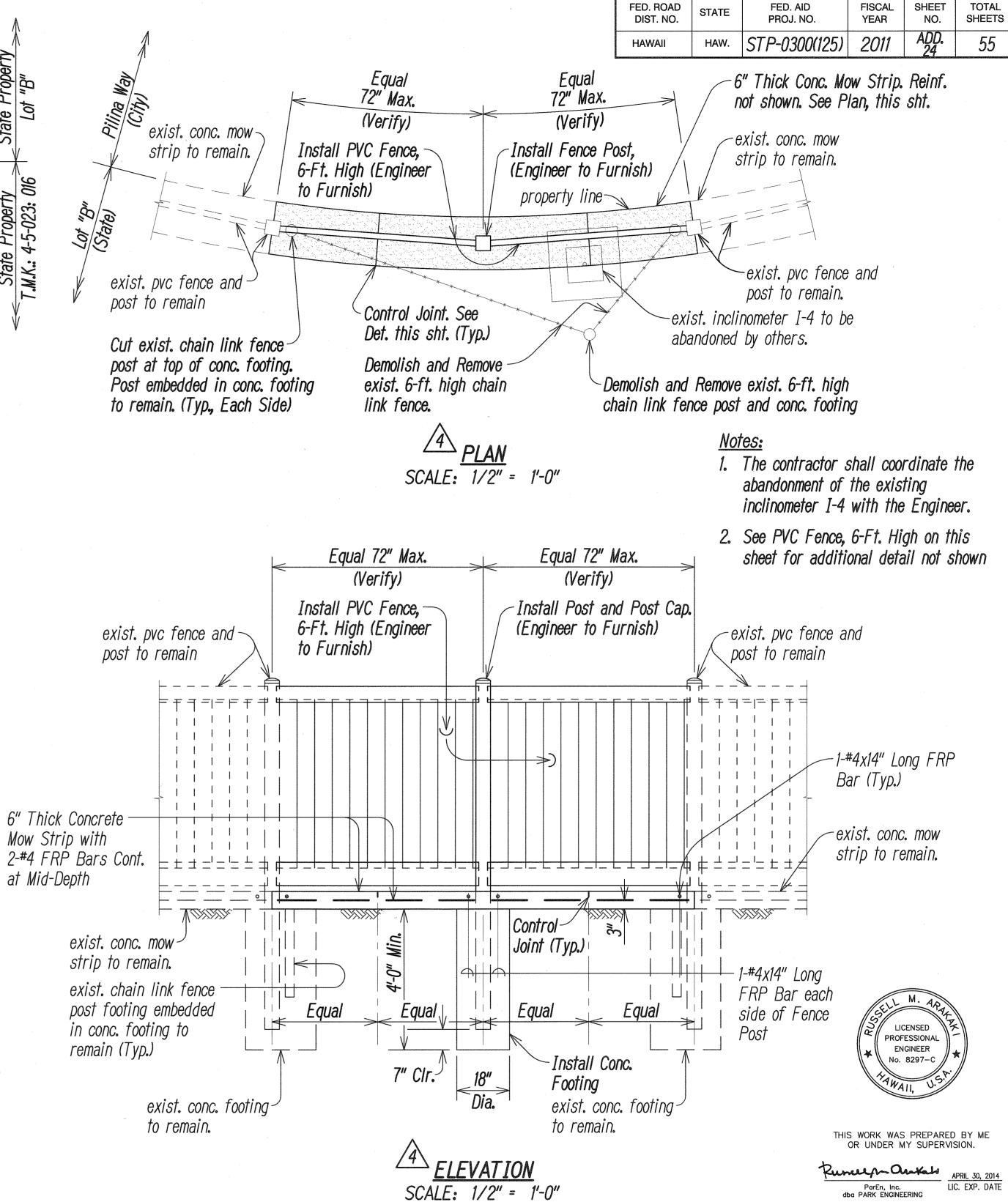
Equal Equal Control Joint. See Det. this Sht. 6" Thick Conc. PVC Fence, -2-#4 FRP -Fence Post 5 Mow Strip (Typ.)6-ft High Bars, Cont. 2" Clr.-Property Line State Property
T.M.K.: 4-5-023: 016 (Typ.)1-#4 x 14" Long FRP-2" CIr. (Typ.) -> <-Bar each side of Fence Post (Typ.) <u>PLAN</u> SCALE: 1/2" = 1'-0" Top of Conc. Mow Strip -D/4

Both Sides

- 1. D = Thickness of Conc. Mow Strip, inches
- 2. FRP Bars not shown.
- 3. Saw cut joints before uncontrolled shrinkage cracking occurs, but only after the concrete has hardened sufficiently to prevent excessive tearing or raveling, or both during the sawing operations.

CONTROL JOINT DETAIL NOT TO SCALE





10/29/12 Added Details.

DATE

REVISION

PVC FENCE, 6-FT. HIGH SCALE: 1/2" = 1'-0"

SHEET No. C7.1 OF C7.3 SHEETS **ADD. 24**

Date: December 2011

STATE OF HAWAI'I

DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

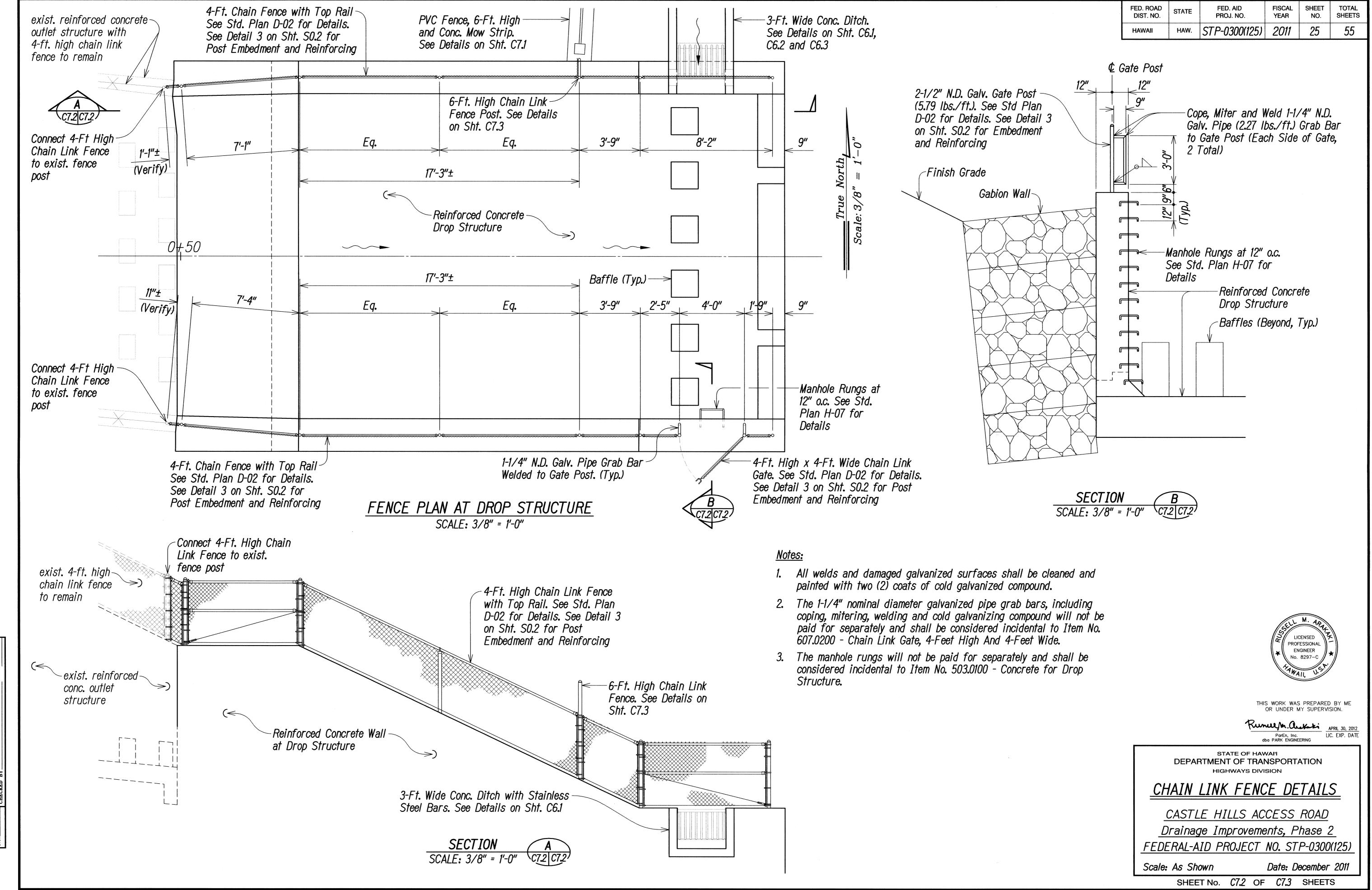
PVC FENCE DETAILS

CASTLE HILLS ACCESS ROAD

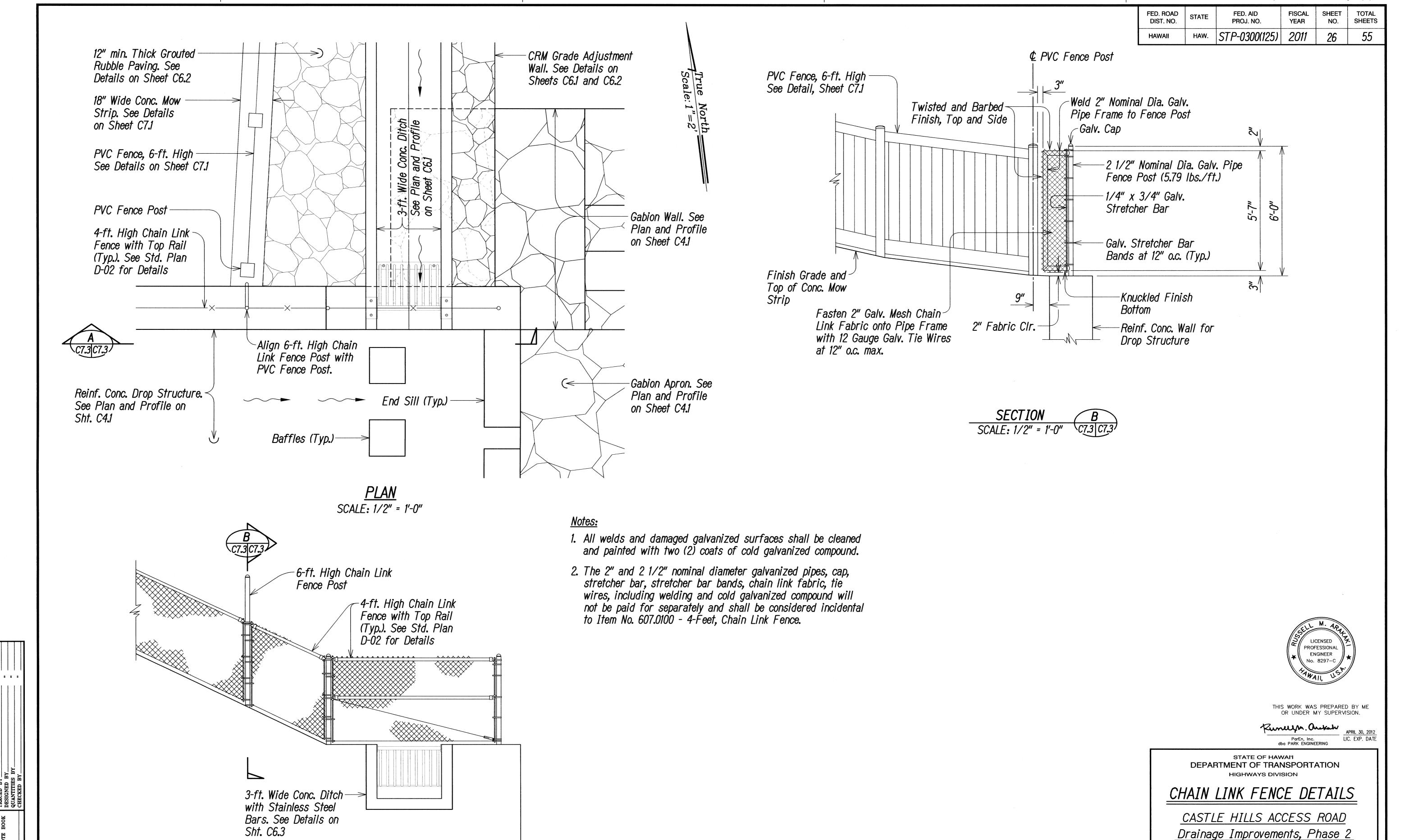
Drainage Improvements, Phase 2

FEDERAL-AID PROJECT NO. STP-0300(125)

Scale: As Shown



25



SECTION

SCALE: 1/2" = 1'-0" C7.3 C7.3

ects\STATE\DOT\CASHILL\DESIGN\PHASE 2\26-Cashil

ORIGINAL SURVEY PLOTTED BY

PLAN BY

26

Date: December 2011

FEDERAL-AID PROJECT NO. STP-0300(125)

SHEET No. C7.3 OF C7.3 SHEETS

Scale: As Shown