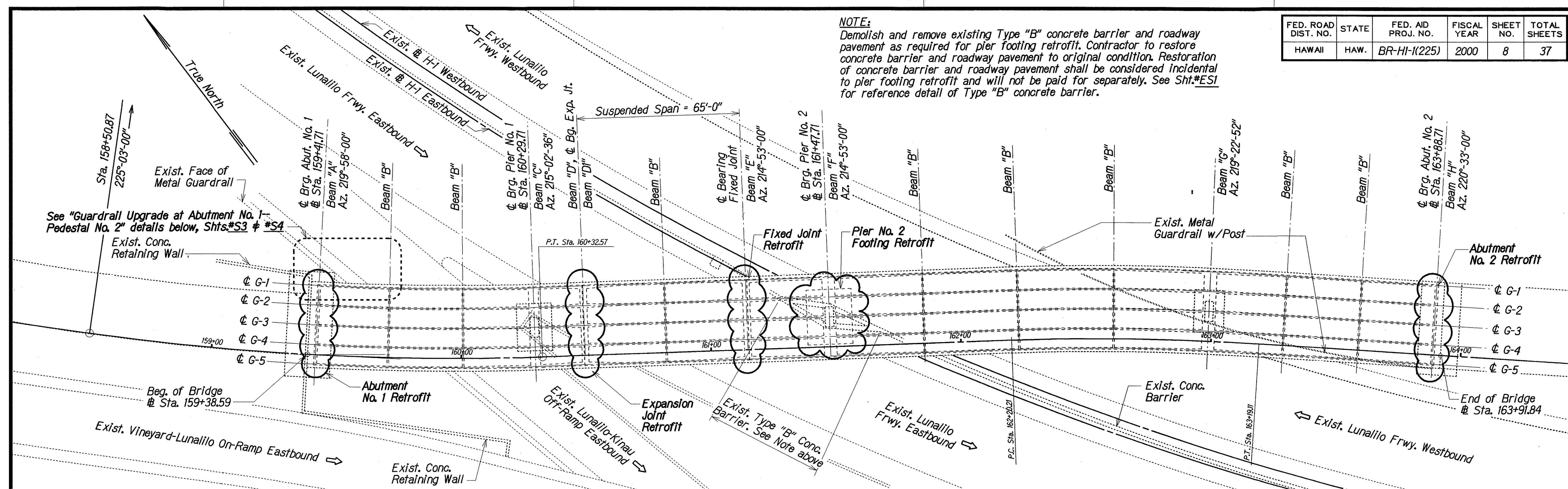


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-HI-1(225)	2000	8	37

NOTE:
Demolish and remove existing Type "B" concrete barrier and roadway pavement as required for pier footing retrofit. Contractor to restore concrete barrier and roadway pavement to original condition. Restoration of concrete barrier and roadway pavement shall be considered incidental to pier footing retrofit and will not be paid for separately. See Sht.#ES1 for reference detail of Type "B" concrete barrier.



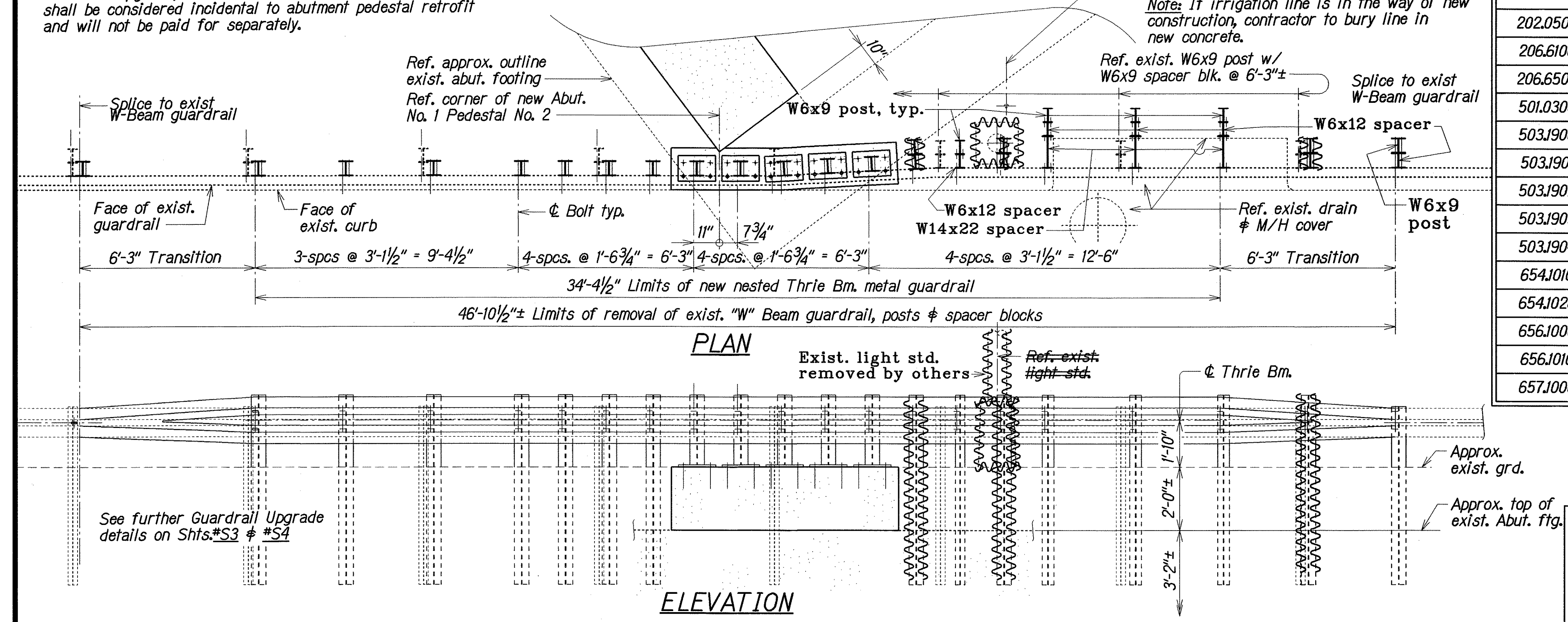
Note:
Remove existing metal post and guardrail, curb and roadway pavement as required for guardrail upgrade. Contractor to restore curb and roadway pavement to original condition. Guardrail upgrade, restoration of curb and roadway pavement shall be considered incidental to abutment pedestal retrofit and will not be paid for separately.

LUNALILO/VINEYARD OFF-RAMP--LAYOUT PLAN

Scale: 1" = 20'-0"

ESTIMATED QUANTITIES

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY
202.0500	Removal of Existing Type "B" Concrete Median Barrier	L.S.	L.S.
206.6100	Structure Excavation	C.Y.	72
206.6500	Structure Backfill	C.Y.	29
501.0300	8" Double Extra Strong Steel Pipe	lbs.	6,370
503.1900	Footing Retrofit ($f'_c = 5,000$ p.s.i.)	L.S.	L.S.
503.1901	Abutment Pedestal ($f'_c = 5,000$ p.s.i.)	L.S.	L.S.
503.1902	Diaphragm Bolsters (Cable Restrainer)	Ea.	$\sqrt{8} \wedge 4$
503.1903	Diaphragm Bolsters (Pipe Restrainer)	Ea.	$\sqrt{8} \wedge 4$
503.1904	Diaphragm Bolsters (Abutment Retrofit)	Ea.	4
654.1010	Restrainer (Cable Type)	Ea.	2
654.1020	Restrainer (Pipe Type)	Ea.	2
656.1000	Coring Concrete (6")	LF.	11
656.1010	Coring Concrete (9")	LF.	15
657.1000	Soffit Access Door	Ea.	$\sqrt{8} \wedge 12$



GUARDRAIL UPGRADE AT ABUTMENT NO. 1--PEDESTAL NO. 2

Not to Scale

LEGEND FOR AS-BUILT POSTINGS

	Squiggly line for as-built deletion
	Double line for as-built deletion
	Text for as-built posting

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**LUNALILO-VINEYARD OFF-RAMP
LAYOUT PLAN and ESTIMATED QUANTITIES**

INTERSTATE ROUTE HI
SEISMIC RETROFIT for LUNALILO-VINEYARD OFF-RAMP,
MAKIKI VIADUCT and PALAMA SEPARATION
Fed. Aid Proj. No. BR-HI-1(225)

Scale: As Noted Date: July, 1999

SHEET No. S2 OF 25 SHEETS

"AS-BUILT"