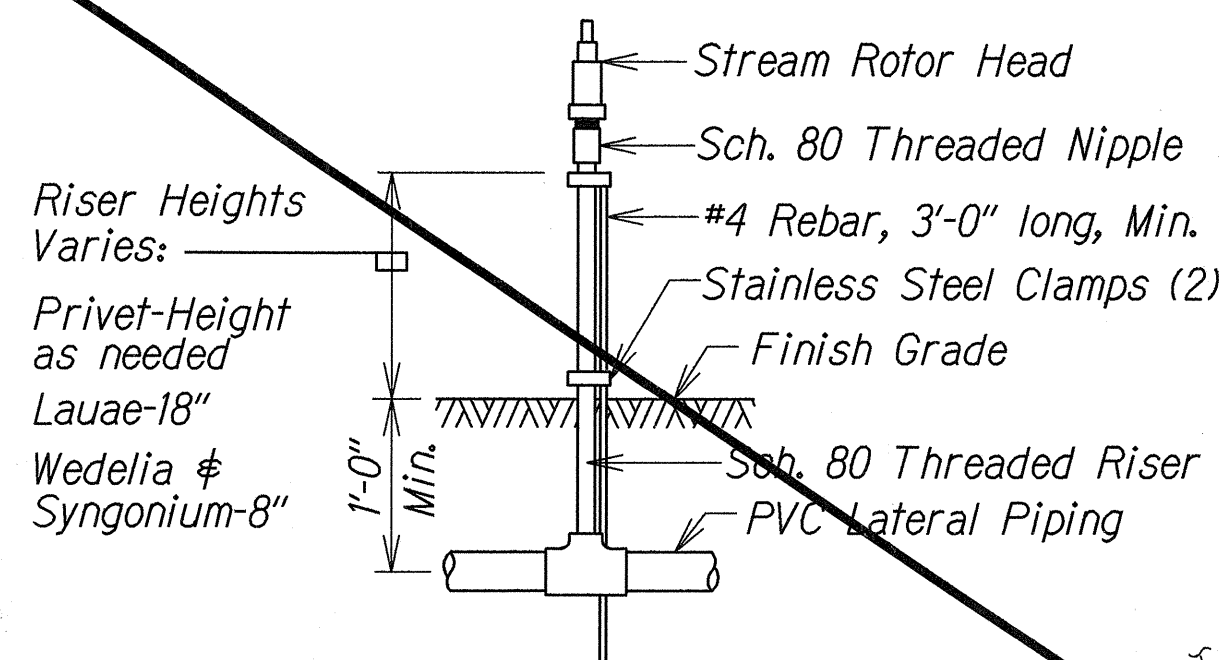
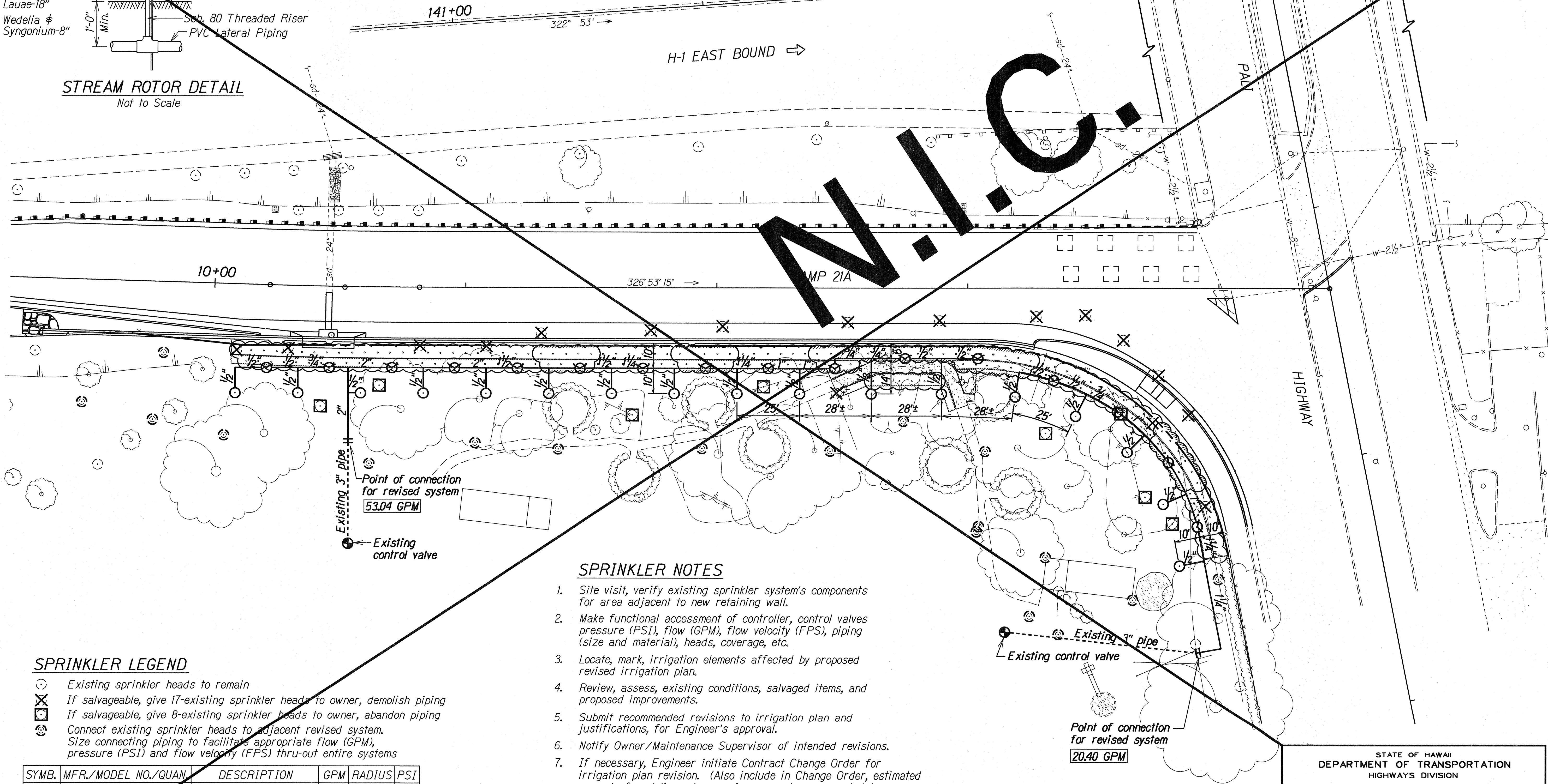


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-IR-HI-1(216)	1994	19	32



STREAM ROTOR DETAIL
Not to Scale



SPRINKLER NOTES

1. Site visit, verify existing sprinkler system's components for area adjacent to new retaining wall.
2. Make functional assessment of controller, control valves pressure (PSI), flow (GPM), flow velocity (FPS), piping (size and material), heads, coverage, etc.
3. Locate, mark, irrigation elements affected by proposed revised irrigation plan.
4. Review, assess, existing conditions, salvaged items, and proposed improvements.
5. Submit recommended revisions to irrigation plan and justifications, for Engineer's approval.
6. Notify Owner/Maintenance Supervisor of intended revisions.
7. If necessary, Engineer initiate Contract Change Order for irrigation plan revision. (Also include in Change Order, estimated amount of wedelia and syngonium ground cover needed to replace ground cover damage by landscaping operations).
8. Tree root pruning for sprinkler head and piping locations, and minimum depths.
9. Riser heights compatible with surrounding ground cover and shrub heights.
10. Backfill and restore finish grades, ready for planting.

SPRINKLER LEGEND

- Existing sprinkler heads to remain
- ✕ If salvageable, give 17-existing sprinkler heads to owner, demolish piping
- ⊗ If salvageable, give 8-existing sprinkler heads to owner, abandon piping
- ⊙ Connect existing sprinkler heads to adjacent revised system. Size connecting piping to facilitate appropriate flow (GPM), pressure (PSI) and flow velocity (FPS) thru-out entire systems

SYMB.	MFR./MODEL NO./QUAN	DESCRIPTION	GPM	RADIUS	PSI
○	TORO/316-10-63/17	Shrub, Stream Rotor, 360°, Low GPM, Adjustable Radius 16'-30'	2.72	25	35
⊙	TORO/310-10-63/16	Shrub, Stream Rotor, 225°, Low GPM, Adjustable Radius 16'-30'	1.70	25	35
—	PVC Class 200	Lateral Piping			

6-13-94 Plan Sheet No. 19 Deleted per Addendum No. 1

DATE REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SPRINKLER PLAN INTERSTATE ROUTE H-1 Eastbound Off-Ramp Improvements at Pali Highway F.A. Project No. IM-IR-HI-1(216)

Scale: As Shown Date: Sept. 1993

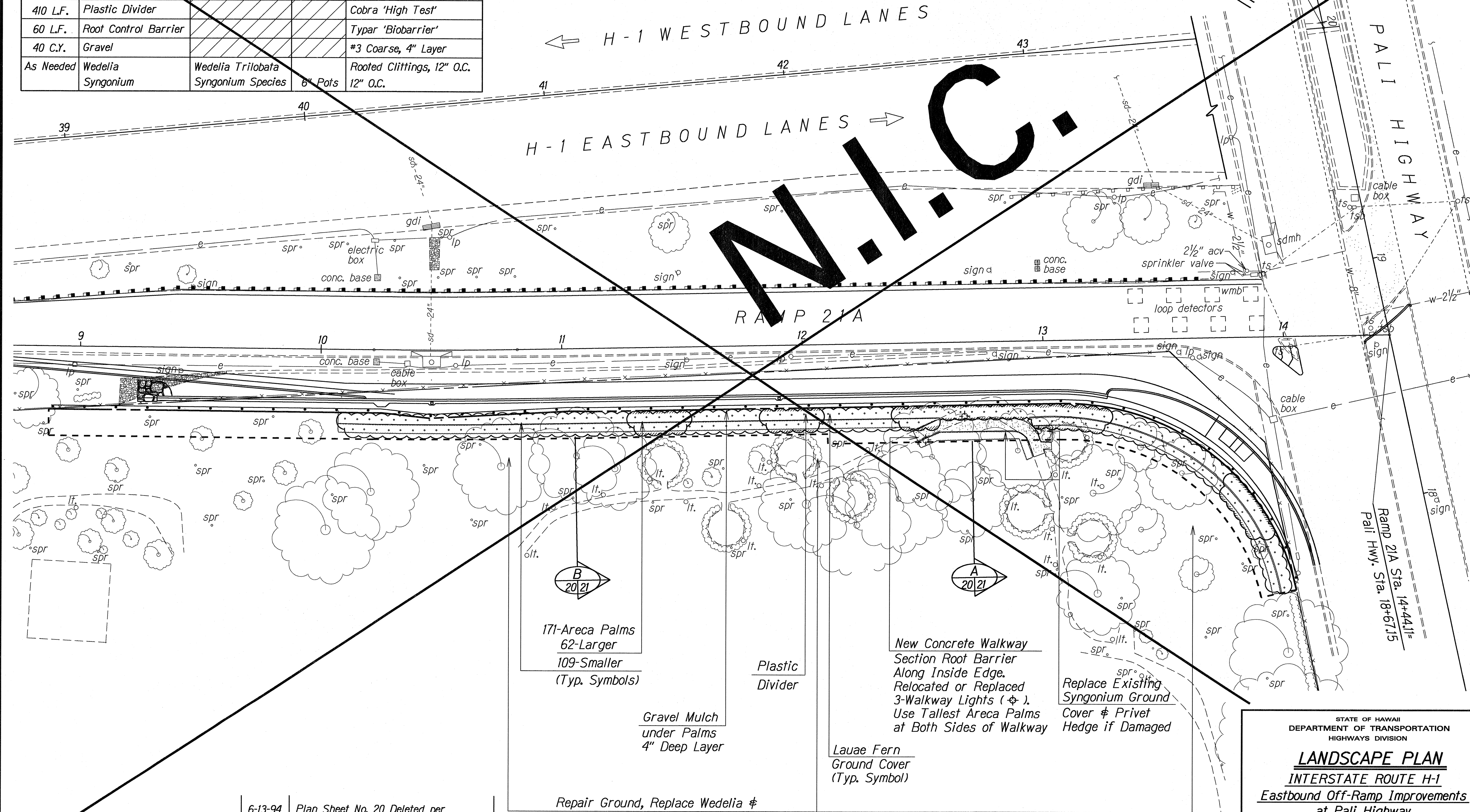
SHEET No. 11 OF 1 SHEETS

SURVEY PLOTTED BY	DATE
DRAWN BY A. KAMURA	5/2/93
DESIGNED BY E. ICHIOHARA	
QUANTITIES BY S. ICHIOHARA	
CHECKED BY S. ICHIOHARA	

PLANT LIST				
Quantity	Common Name	Botanical Name	Size	Specifics
62	Areca Palms	Chrysalidocarpus Lfescens	25-Gal.	8' Height, Multi-Trunk Clump Full, 5' O.C. Δ SP.
109	Areca Palms	Chrysalidocarpus Lfescens	7-Gal.	4' Height, Multi-Plant Clump Full, 5' O.C. Δ SP.
1600 S.F.	Lauae Fern	Polypodium Phymatodes	1-Gal.	16" O.C.
250 S.F.	Syngonium		6" Pots	12" O.C.
410 L.F.	Plastic Divider			Cobra 'High Test'
60 L.F.	Root Control Barrier			Tygar 'Biobarrier'
40 C.Y.	Gravel			#3 Coarse, 4" Layer
As Needed	Wedelia	Wedelia Trilobata		Rooted Clippings, 12" O.C.
	Syngonium	Syngonium Species	6" Pots	12" O.C.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1M-IR-HI-1(216)	1994	20	32

Lunalilo Freeway @ Sta. 144+25.10=
Pali Highway Sta. 19+97.57



ORIGINAL PLAN	DATE	6-13-94
SURVEY PLOTTED BY		
DRAWN BY		
DESIGNED BY		
QUANTITIES BY		
CHECKED BY		

6-13-94 Plan Sheet No. 20 Deleted per
Addendum No. 1

DATE REVISION

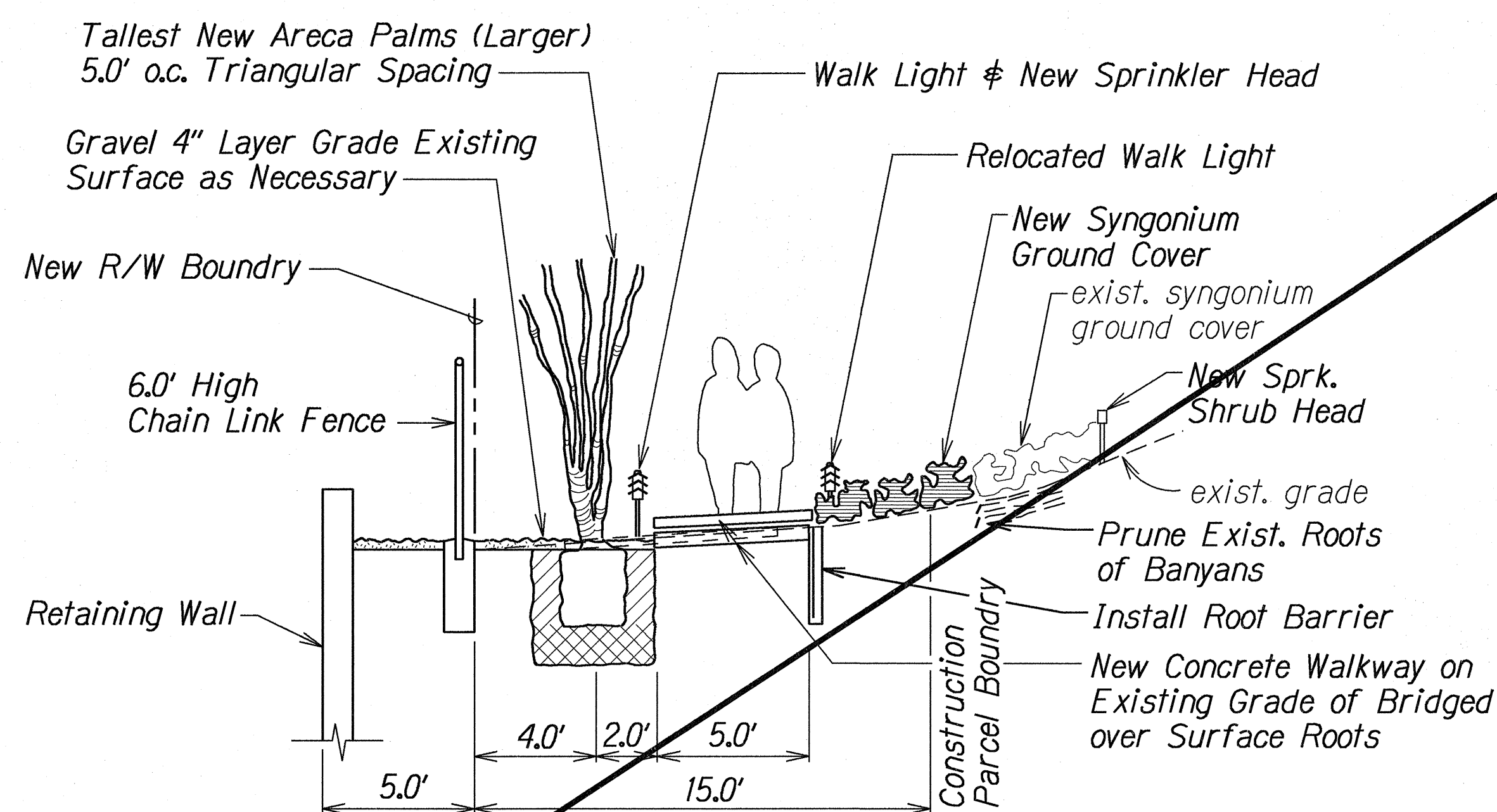
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LANDSCAPE PLAN
INTERSTATE ROUTE H-1
Eastbound Off-Ramp Improvements
at Pali Highway
F.A. Project No. 1M-IR-HI-1(216)
Scale: 1"=20' Date: Aug., 1993

SHEET No. 1 OF 2 SHEETS

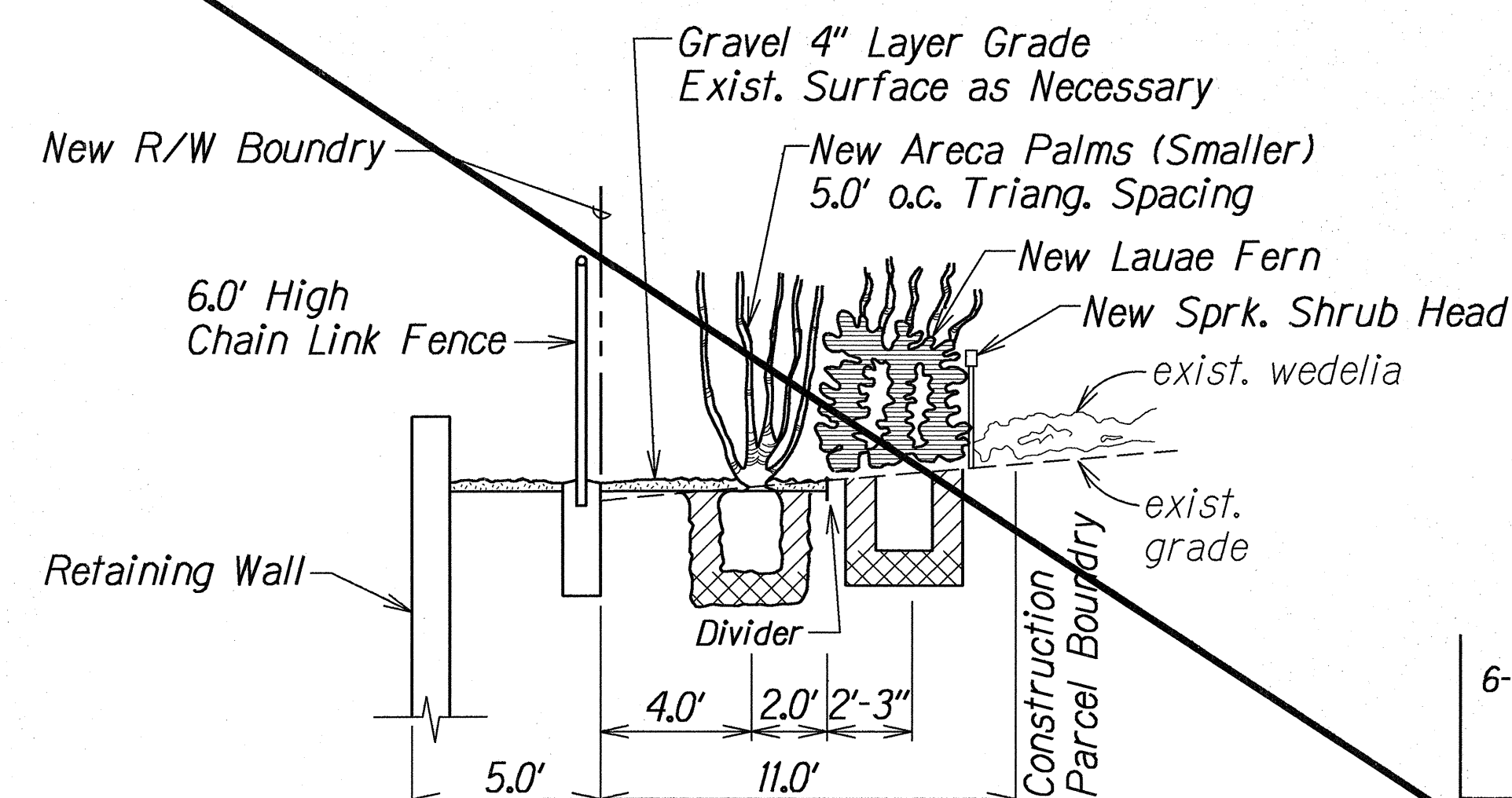
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1M-1R-HI-1K(216)	1994	21	32

N.I.C.



SECTION @STA. 12+70±
Scale: 1/4"=1'-0"

A
20 21



SECTION @STA. 11+05±
Scale: 1/4"=1'-0"

B
20 21

6-13-94 Plan Sheet No. 21 Deleted per Addendum No. 1

DATE REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETAIL SECTION
INTERSTATE ROUTE H-1
Eastbound Off-Ramp Improvements
at Pali Highway

F.A. Project No. 1M-1R-HI-1K(216)

Scale: 1/4"=1'-0"

Date: Aug., 1993

SHEET No. 2 OF 2 SHEETS