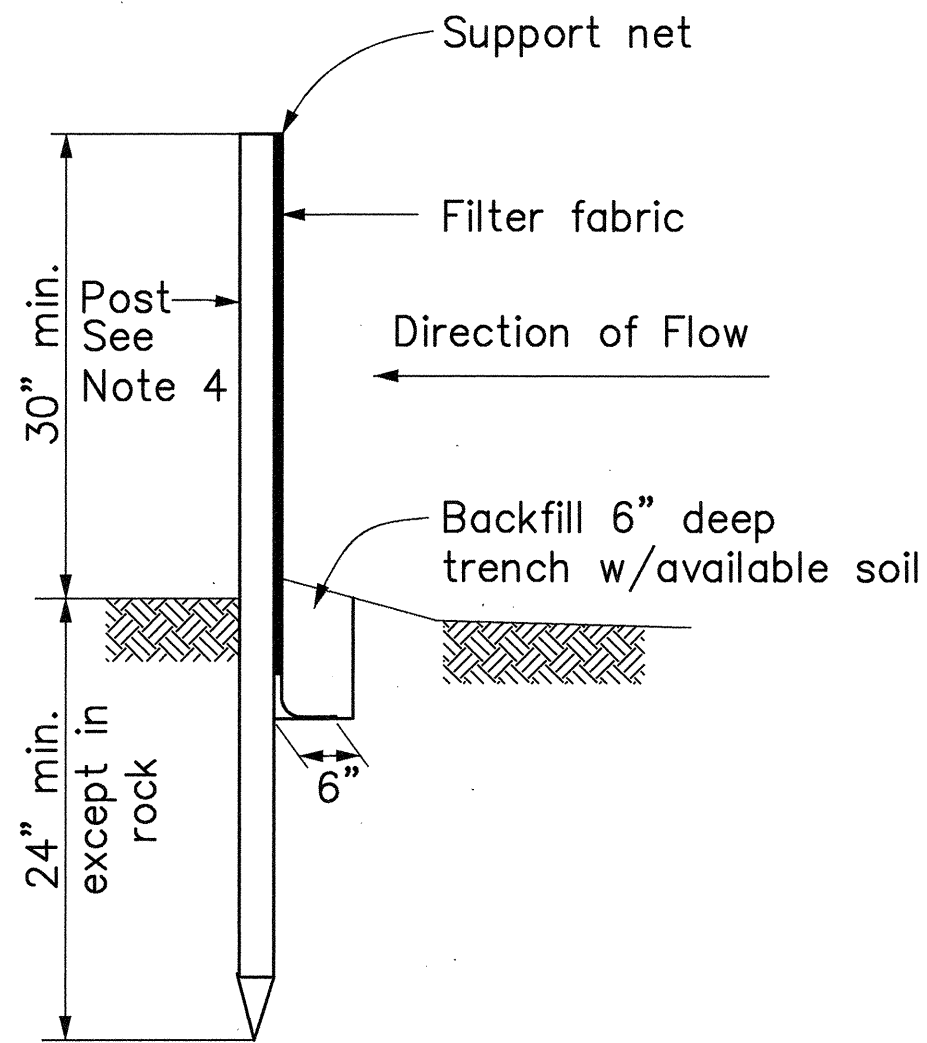
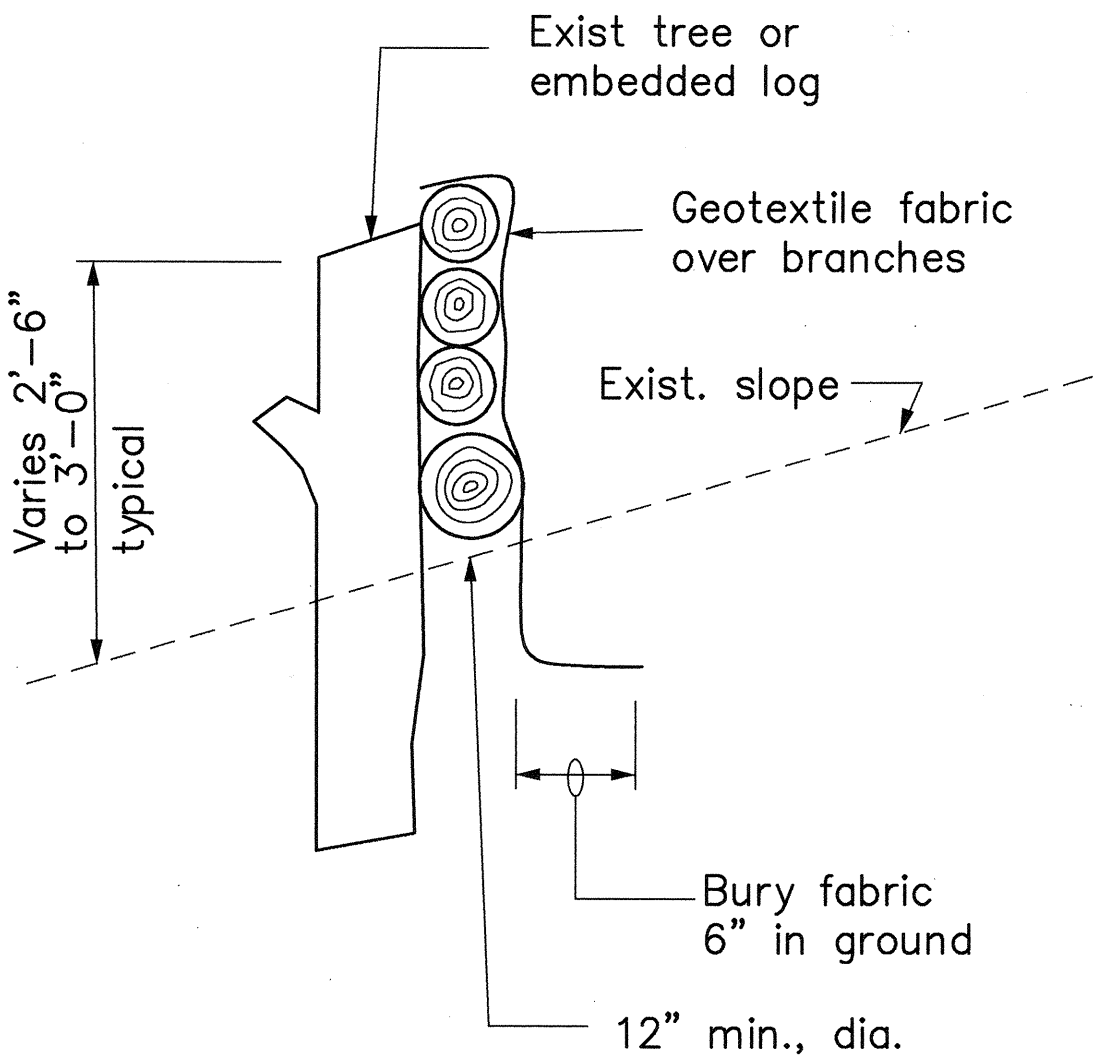


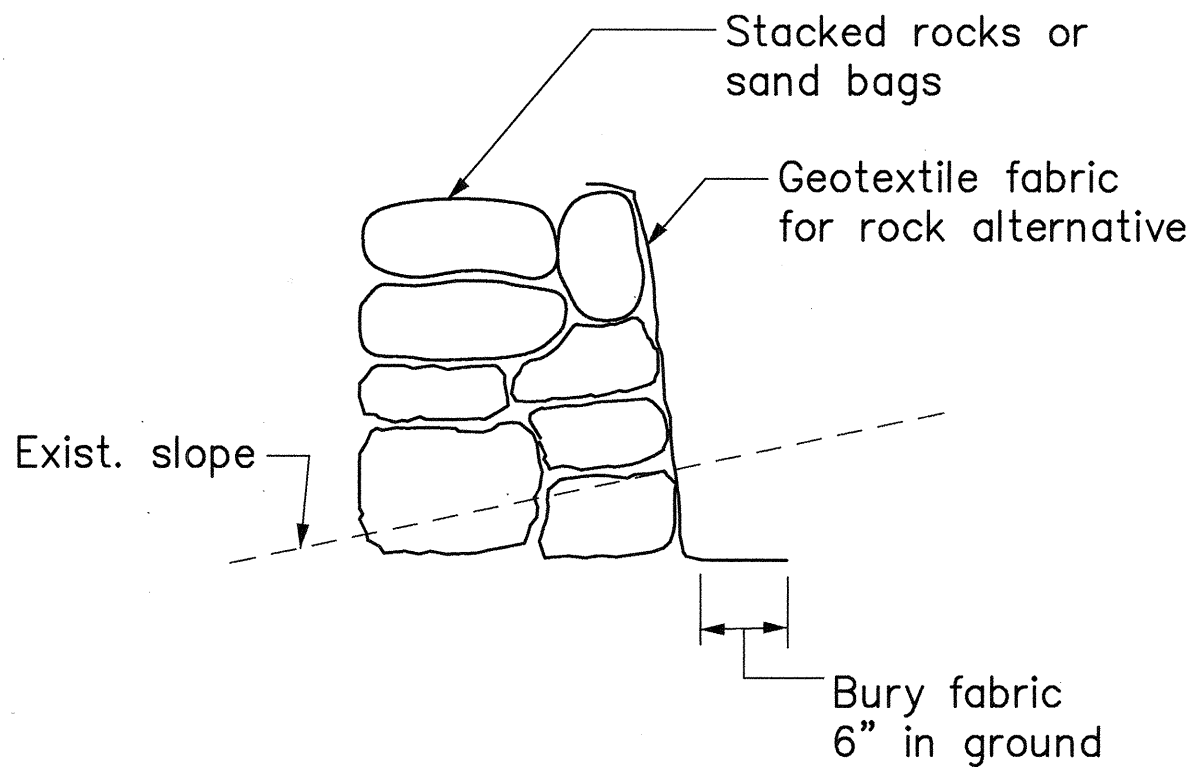
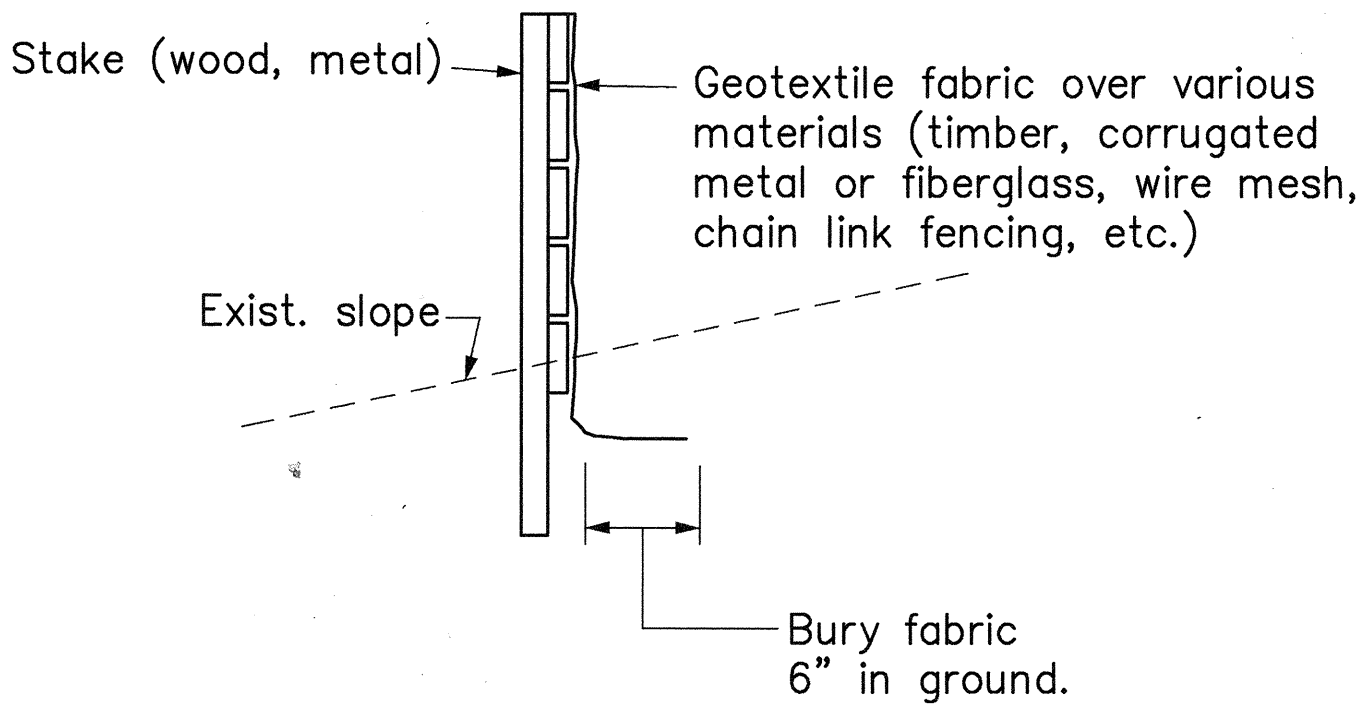
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(74)	1993	123	325

GRADING NOTES

1. All grading work shall be done in accordance with Chapter 23, Grading, Soil Erosion and Sediment Control of the Revised Ordinances of Honolulu, 1978, as amended (Ordinance Nos. 81-13 and 90-71).
2. The Contractor shall remove all silt and debris resulting from his work and deposited in drainage facilities, roadways and other areas. The costs incurred for any necessary remedial action by the Chief Engineer shall be payable by the Contractor.
3. The Contractor, at his own expense, shall keep the project area and surrounding area free from dust and other nuisance. The work shall be in conformance with the air pollution standards and regulations of the State Department of Health.
4. All slopes and exposed areas shall be hydro-mulch seeded as soon as final grades have been established in accordance with the Specification and Grading Plan. Planting shall not be delayed until all grading work has been completed. Grading to final grade shall be continuous, and any area within which work has been interrupted or delayed shall be planted.
5. Fills on slopes steeper than 5:1 shall be keyed.
6. No grading work shall be done on Saturdays, Sundays and Holidays at any time without prior written notice to the Chief Engineer or District Engineer, State of Hawaii.
7. The limits of the area to be graded shall be flagged by the Contractor before the commencement of the grading work.
8. The City shall be informed of the location of the borrow/disposal site for the project when the application for a grading permit is made. The borrow/disposal site must also fulfill the requirements of the grading ordinance.
9. All grading operations shall be performed in conformance with the applicable provisions of Chapter 54, Water Quality Standards, and Chapter 55, Water Pollution Control, of Title 11, Administrative Rules of the State Department of Health.
10. Temporary Erosion Control Plan and procedures shall be submitted by the Contractor for approval prior to the start of actual grading operations.
11. Excavated material on site which will be exposed for more than 7 days shall be covered with plastic sheets within 2 days of placement or as directed by the Engineer.
12. Silt fence shall be installed along the edges of open channels & ditches in order to filter sediment from runoff, before water enters the channel.
13. Temporary erosion controls shall not be removed before permanent erosion controls are in-place and established.
14. Temporary erosion and pollution control measures, excluding silt fence and hydro-mulch, will be performed on a force account basis and paid for under Item No. 639.0100, Temporary Project Water Pollution Control.



SILT FENCE DETAIL
N.T.S.

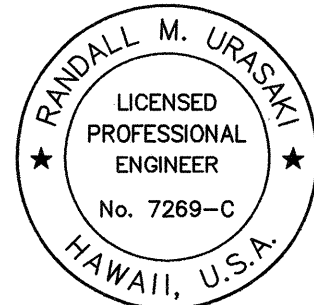


SEDIMENT CONTROL DEVICES
AND/OR ENERGY DISSIPATOR
N.T.S.

NOTES:

1. Filter fabric shall be of the type specified and installed in combination with a support net of polyester netting or approved equal. The filter fabric shall be a minimum of 36 inches wide and the support net a minimum of 30 inches.
2. If silt fence is obtained from manufacturer as a package (i.e. fabric attached to post) the manufacturers installation instructions shall be adhered to.
3. Posts shall be metal where possible, cross section of post will be substantial enough to support a loaded silt fence without bending. Post spacing shall be 4 feet to 8 feet, depending on post size.
4. Some manufacturers only supply silt fence with wooden post. During installation, measures should be taken to prevent damage to post.

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HIGHWAYS DIVISION

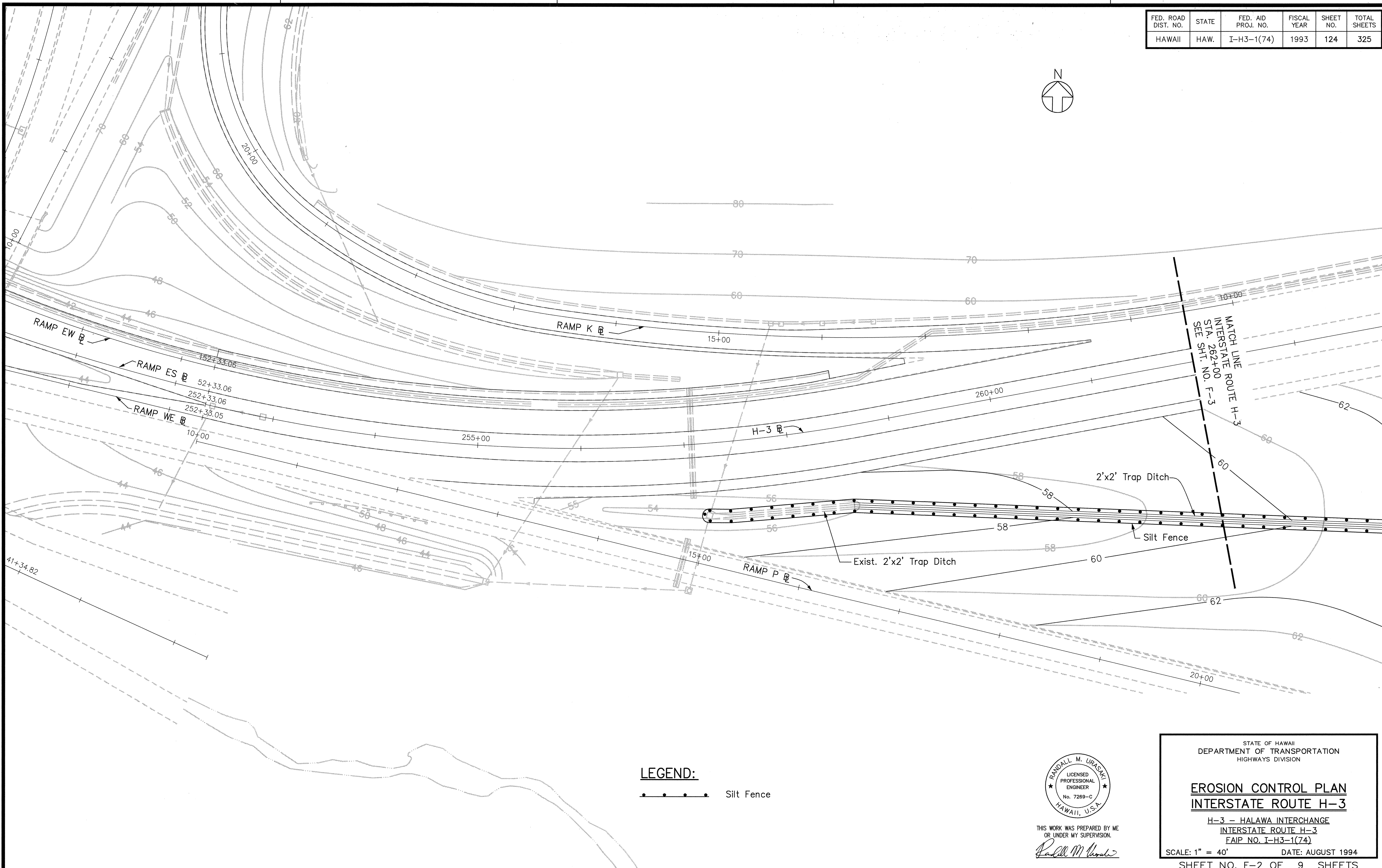
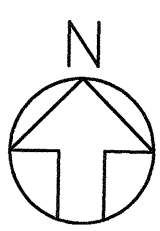
GRADING NOTES
EROSION & SEDIMENT
CONTROL MEASURES

H-3 - HALAWA INTERCHANGE
INTERSTATE ROUTE H-3
FAIP NO. I-H3-1(74)

SCALE: AS SHOWN DATE: AUGUST 1994

SHEET NO. F-1 OF 9 SHEETS

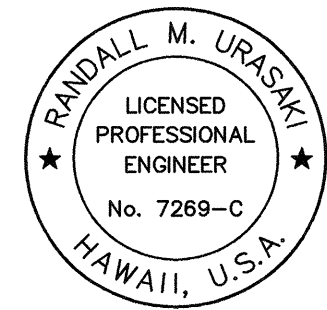
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HAWAII	HAW.	I-H3-1(74)	1993	124	325



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	REVIEWED BY	
	QUANTITIES BY	
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No.		

LEGEND:

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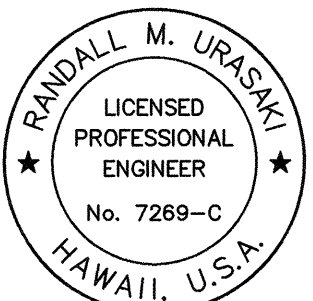
Randall M. Urasaki

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

EROSION CONTROL PLAN
INTERSTATE ROUTE H-3
H-3 - HALAWA INTERCHANGE
INTERSTATE ROUTE H-3
FAIP NO. I-H3-1(74)

SCALE: 1" = 40'
DATE: AUGUST 1994
SHEET NO. F-2 OF 9 SHEETS

CAD by S. Cheng 35-52



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Richard M. Woods

SHEET NO. F-3 OF 9 SHEETS

125

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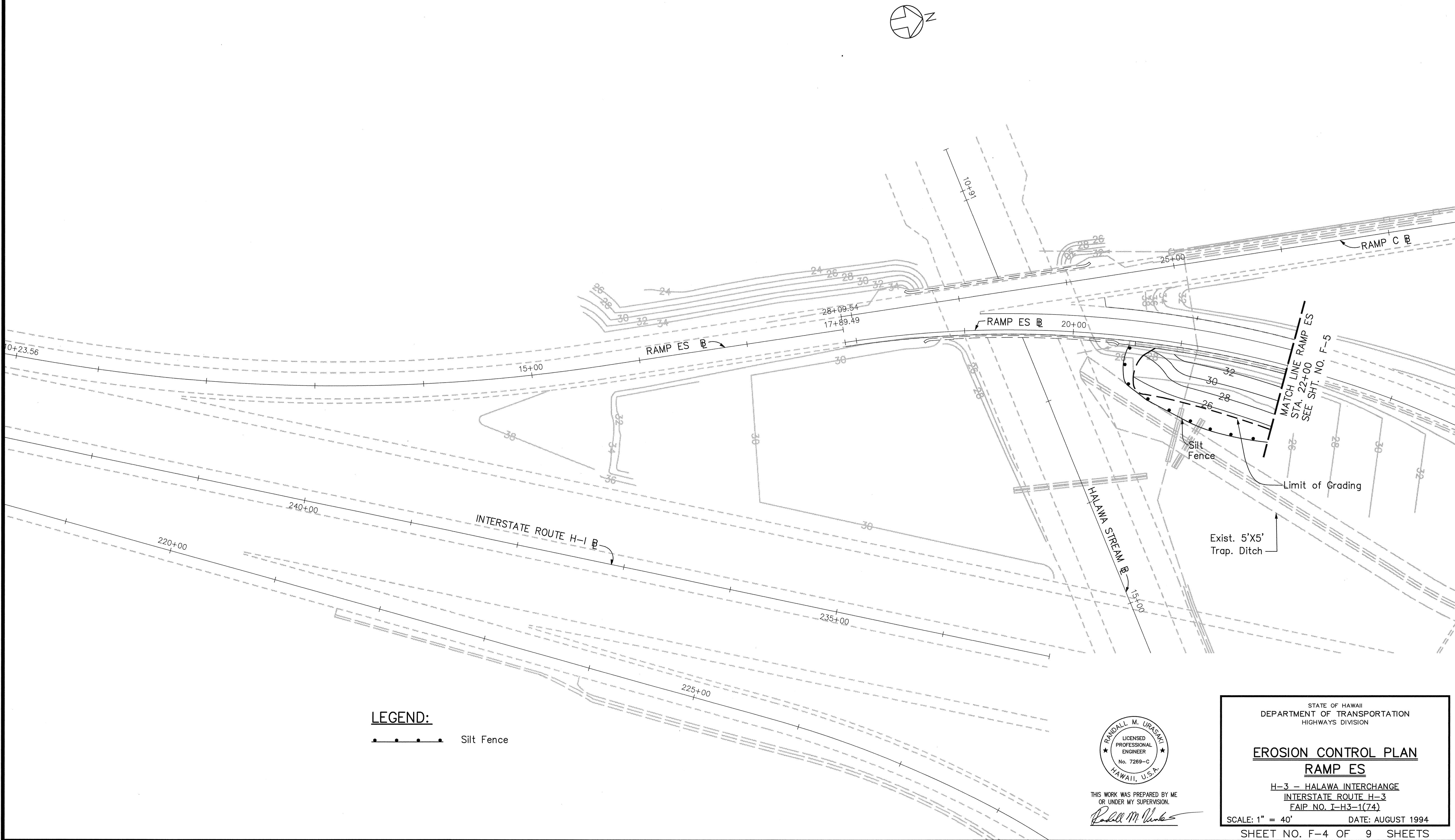
Limit of Grading

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

CAD by S. Chong, 55-52

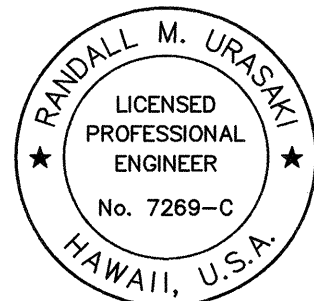
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HAWAII	HAW.	I-H3-1(74)	1993	126	325



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

EROSION CONTROL PLAN

RAMP ES

H-3 - HALAWA INTERCHANGE
INTERSTATE ROUTE H-3
FAIP NO. I-H3-1(74)

SCALE: 1" = 40' DATE: AUGUST 1994

SHEET NO. F-4 OF 9 SHEETS

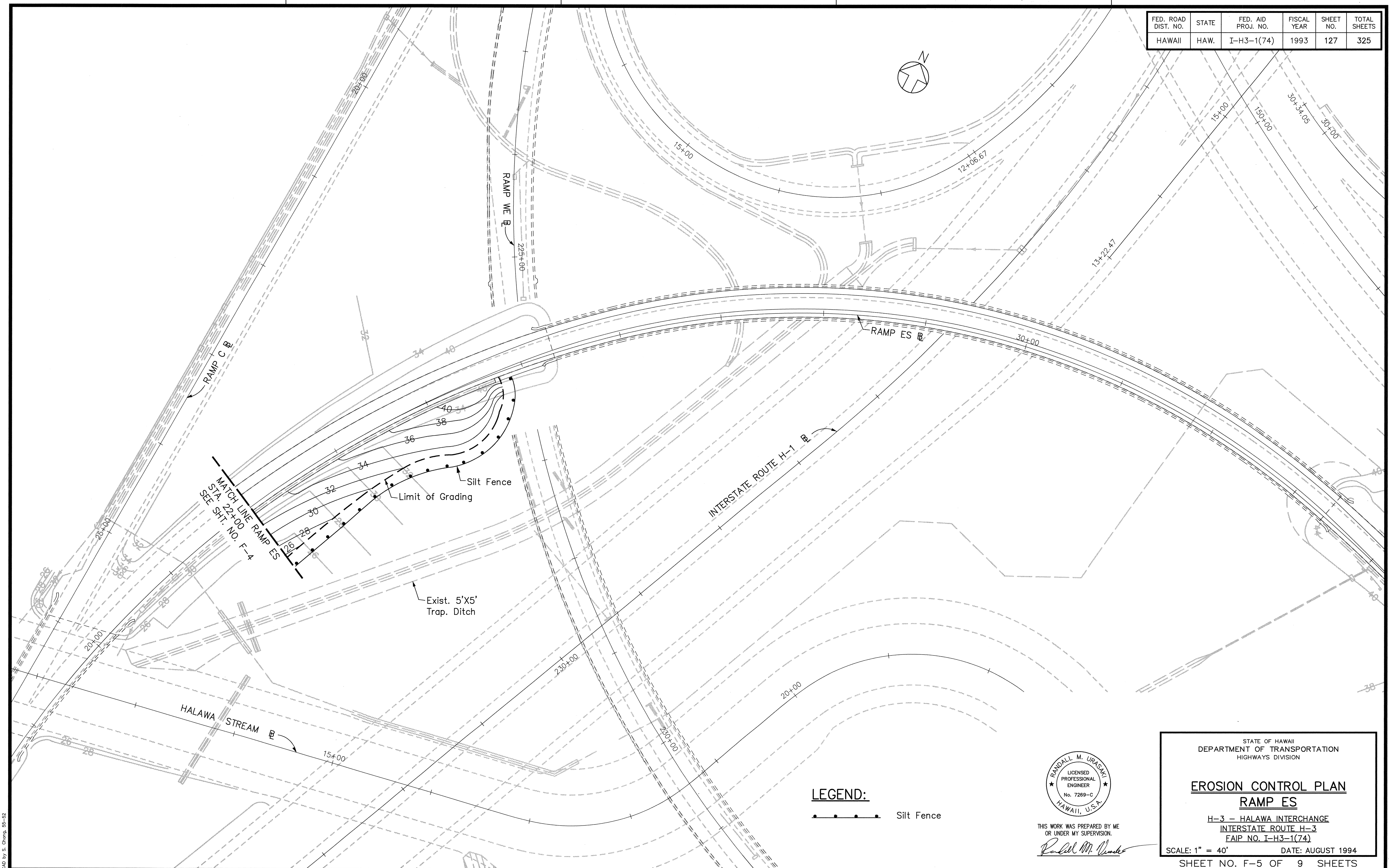
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QUANTITIES BY
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SURVEY PLOTTED BY
DATE

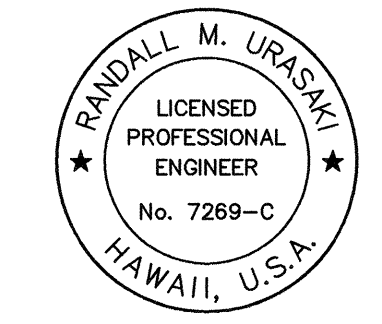
QAD by S. Chang, 55-52

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(74)	1993	127	325

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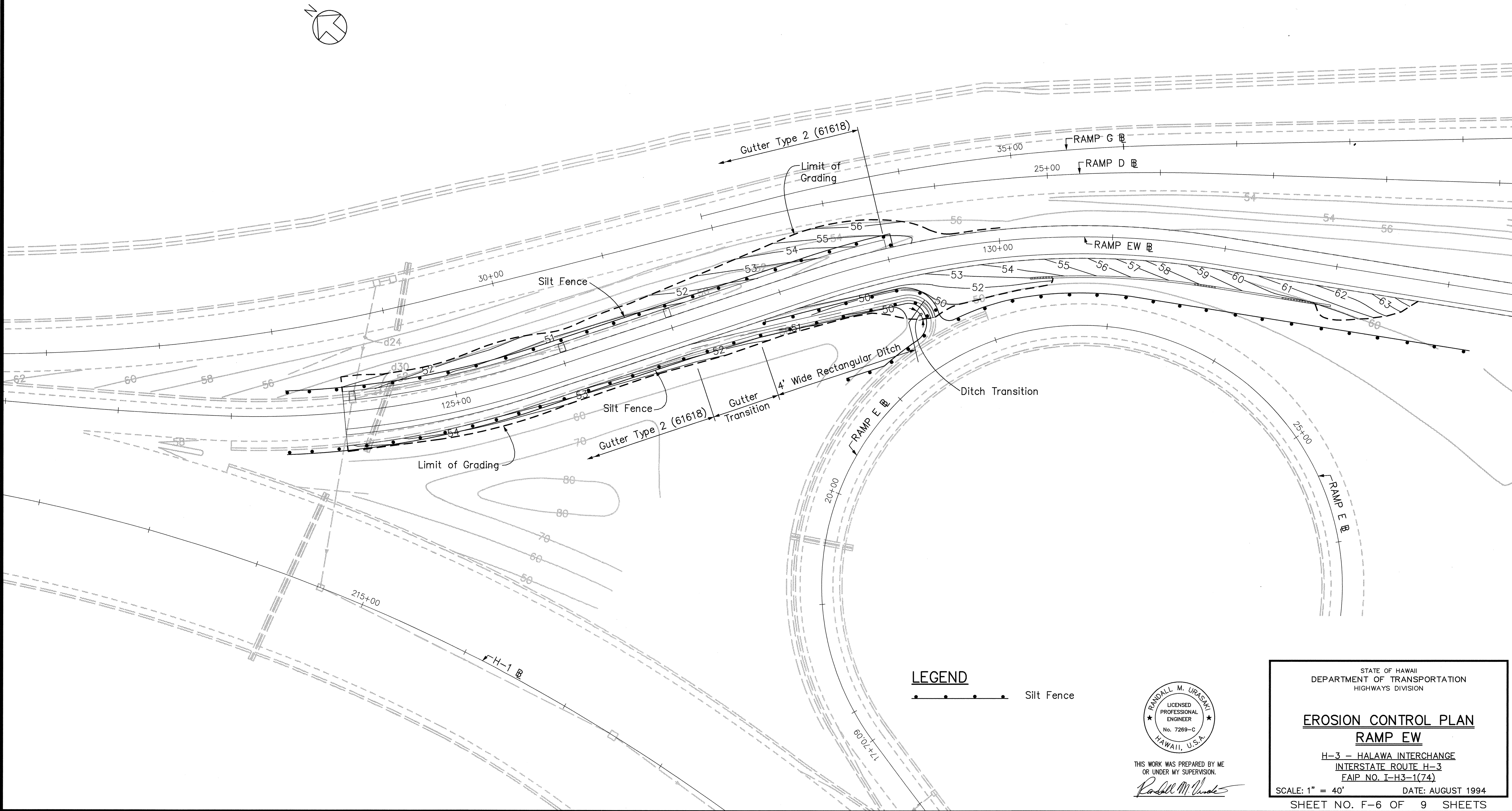
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

EROSION CONTROL PLAN
RAMP ES
H-3 - HALAWA INTERCHANGE
INTERSTATE ROUTE H-3
FAIP NO. I-H3-1(74)

SCALE: 1" = 40' DATE: AUGUST 1994

SHEET NO. F-5 OF 9 SHEETS

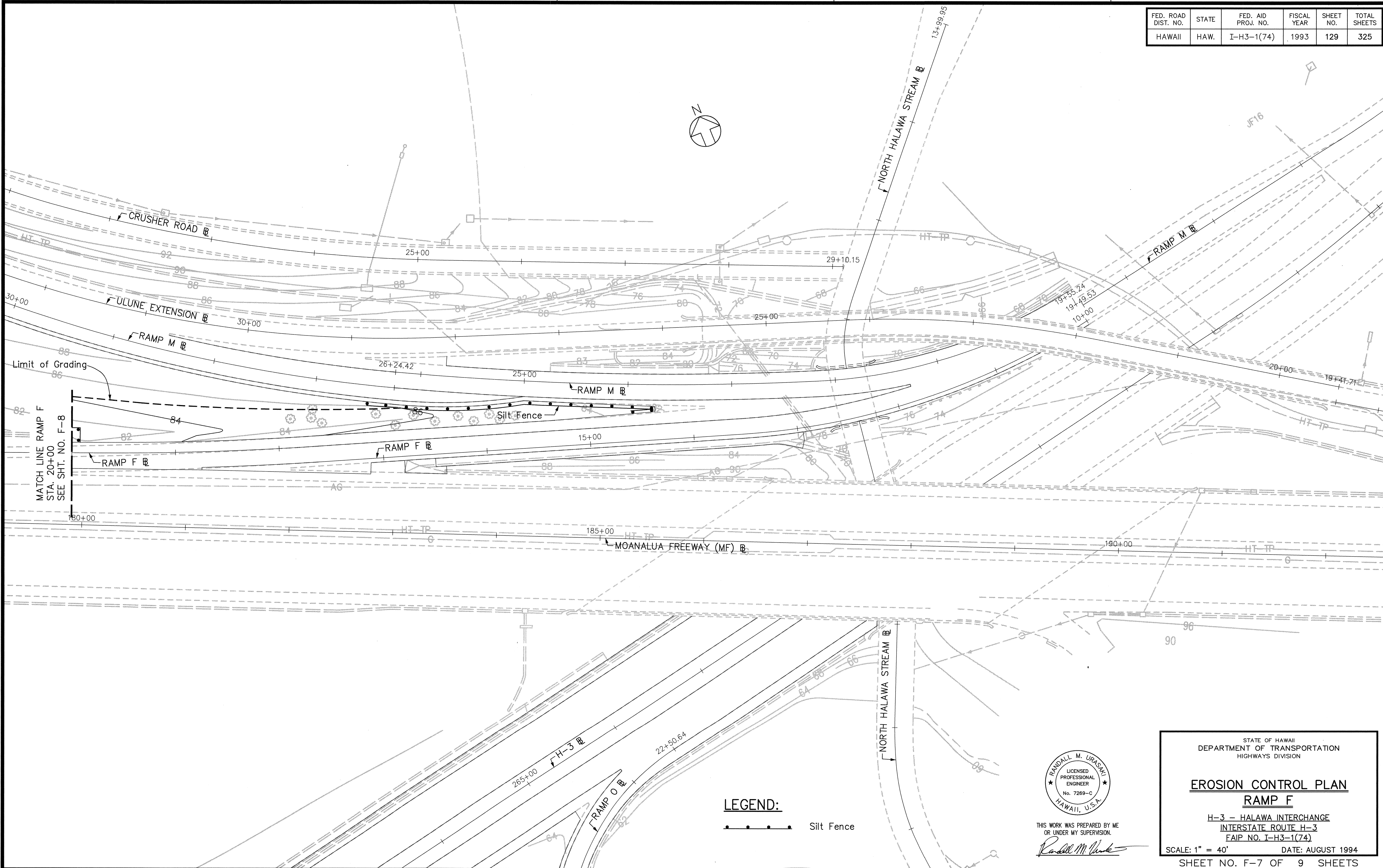
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HAWAII	HAW.	I-H3-1(74)	1993	128	325



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(74)	1993	129	325

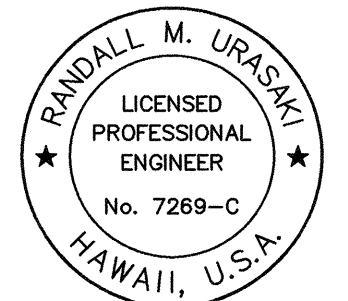


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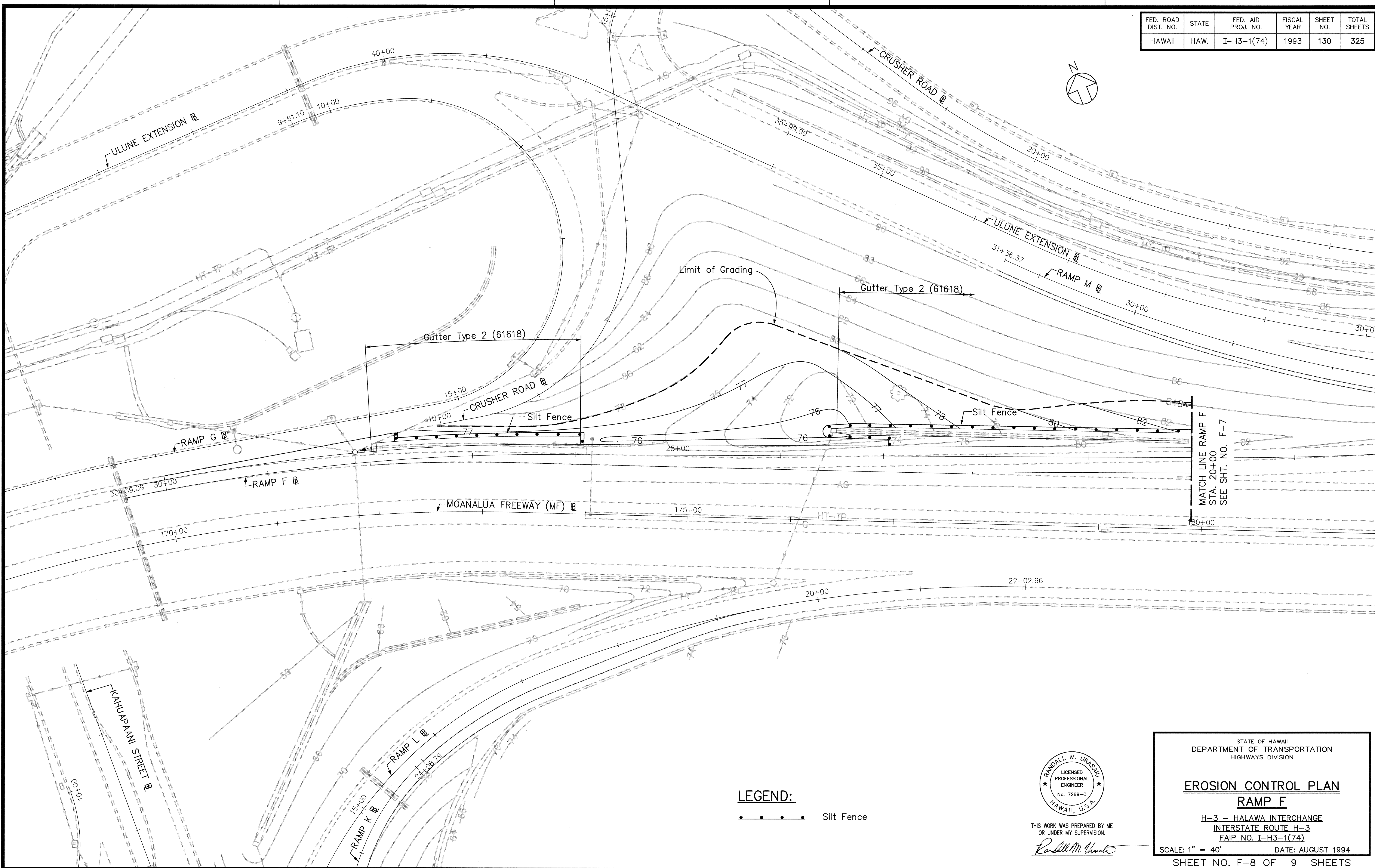
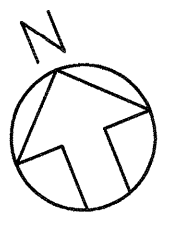
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

EROSION CONTROL PLAN
RAMP F

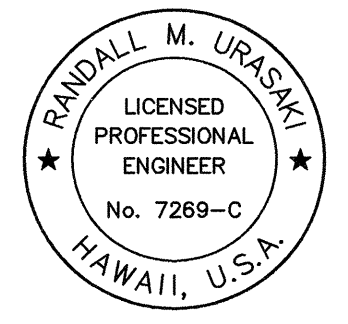
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INTERSTATE ROUTE H-3
FAIP NO. I-H3-1(74)

SCALE: 1" = 40' DATE: AUGUST 1994
SHEET NO. F-7 OF 9 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(74)	1993	130	325



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STATE OF HAWAII
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HIGHWAYS DIVISION

EROSION CONTROL PLAN
RAMP F

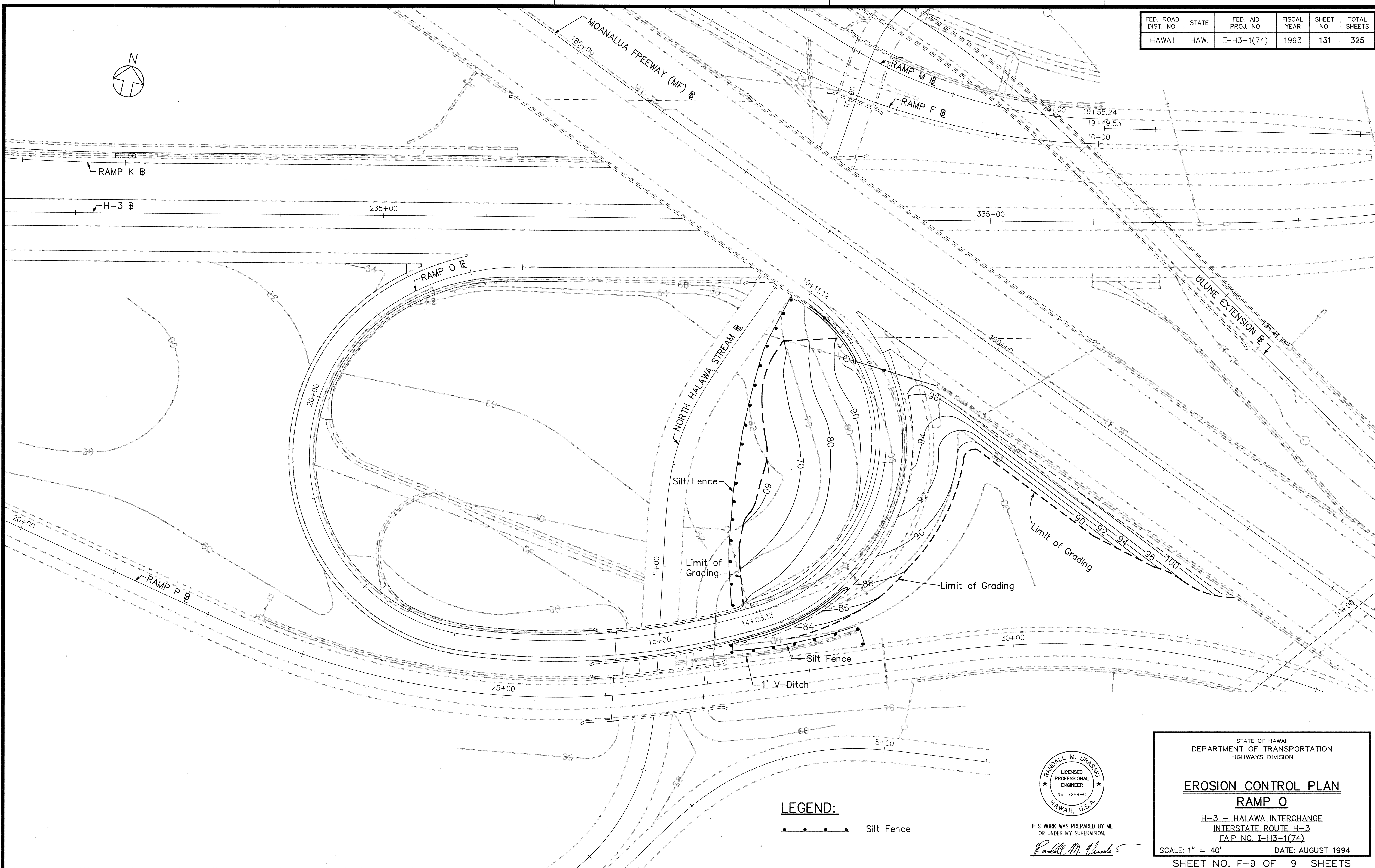
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INTERSTATE ROUTE H-3
FAIP NO. I-H3-1(74)

SCALE: 1" = 40' DATE: AUGUST 1994
SHEET NO. F-8 OF 9 SHEETS

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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(74)	1993	131	325



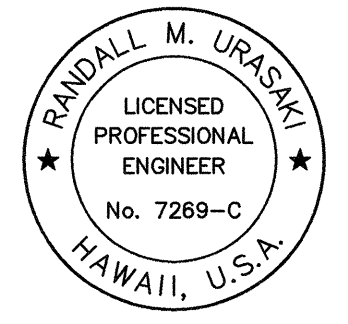
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640 by S. Cheng 55-52

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EROSION CONTROL PLAN
RAMP O
 H-3 - HALAWA INTERCHANGE
 INTERSTATE ROUTE H-3
 FAIP NO. I-H3-1(74)

SCALE: 1" = 40'
 SHEET NO. F-9 OF 9 SHEETS

DATE: AUGUST 1994