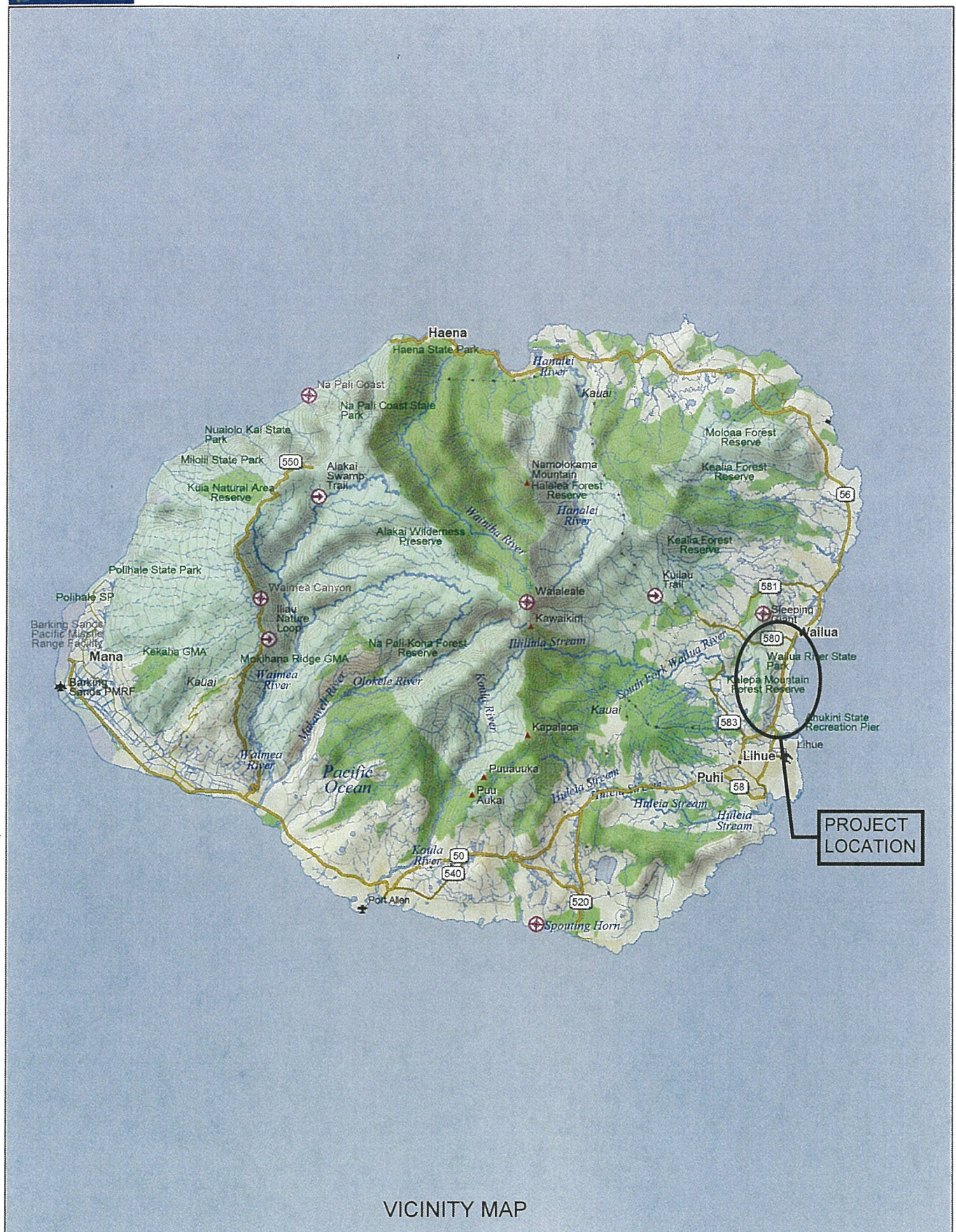
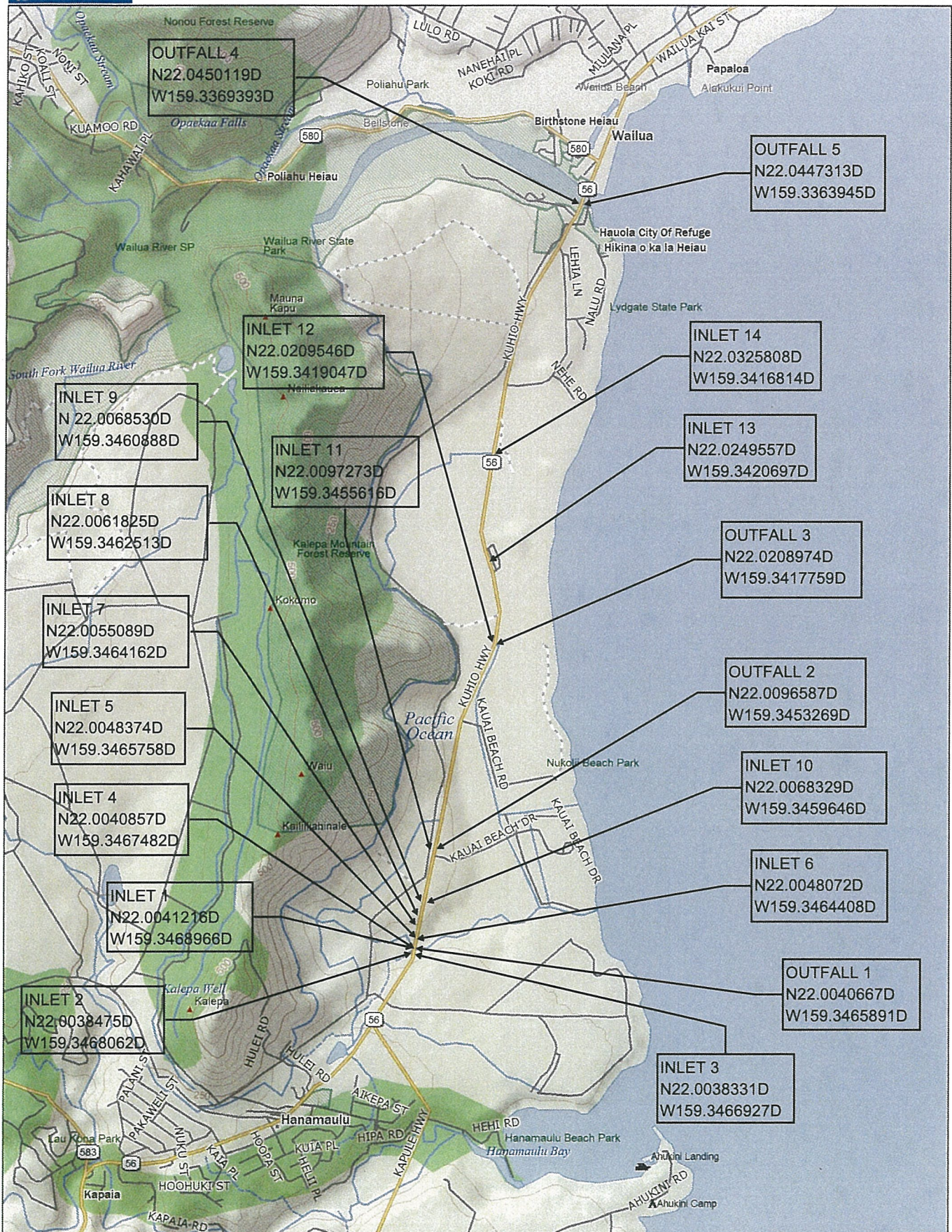


FORM C ATTACHMENT A-1

Location and Outfall Maps

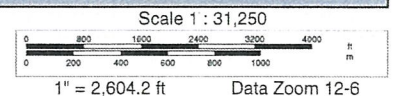




Data use subject to license.

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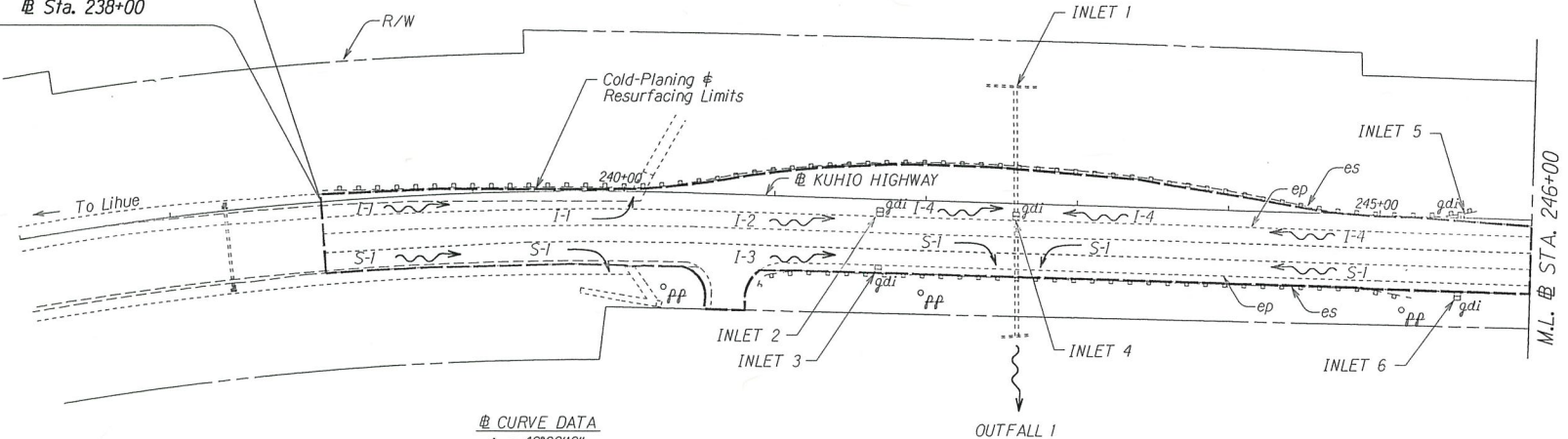
www.delorme.com



FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-01-14M	2018	10	30

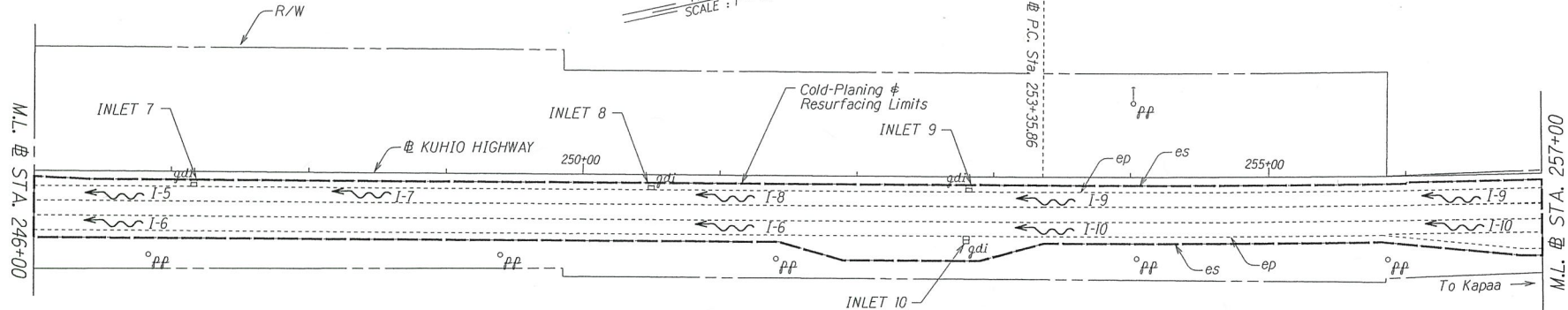
BEGIN PROJECT
Project No. 56A-01-14M
@ Sta. 238+00

TRUE NORTH
SCALE: 1" = 40'



@ CURVE DATA
 $\Delta = 40^{\circ}02'18''$
 $R = 2,200.00$
 $T = 801.57$
 $C = 1506.27$
 $LC = 1537.36$

TRUE NORTH
SCALE: 1" = 40'



- Notes:
- I-1 - Surface runoff to Inlet 1 to Outfall 1 (Stream Perennial)
 - I-2 - Surface runoff to Inlet 2 to Outfall 1 (Stream Perennial)
 - I-3 - Surface runoff to Inlet 3 to Outfall 1 (Stream Perennial)
 - I-4 - Surface runoff to Inlet 4 to Outfall 1 (Stream Perennial)
 - I-5 - Surface runoff to Inlet 5 to Outfall 1 (Stream Perennial)
 - I-6 - Surface runoff to Inlet 6 to Outfall 1 (Stream Perennial)
 - I-7 - Surface runoff to Inlet 7 to Outfall 1 (Stream Perennial)
 - I-8 - Surface runoff to Inlet 8 to Outfall 1 (Stream Perennial)
 - I-9 - Surface runoff to Inlet 9 to Outfall 1 (Stream Perennial)
 - I-10 - Surface runoff to Inlet 10 to Outfall 1 (Stream Perennial)
 - S-1 - Surface runoff to Outfall 1 (Stream Perennial)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

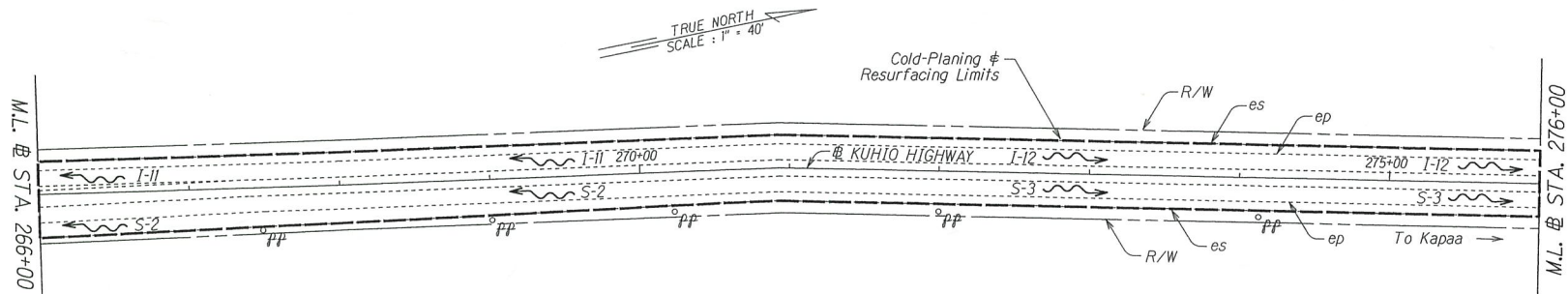
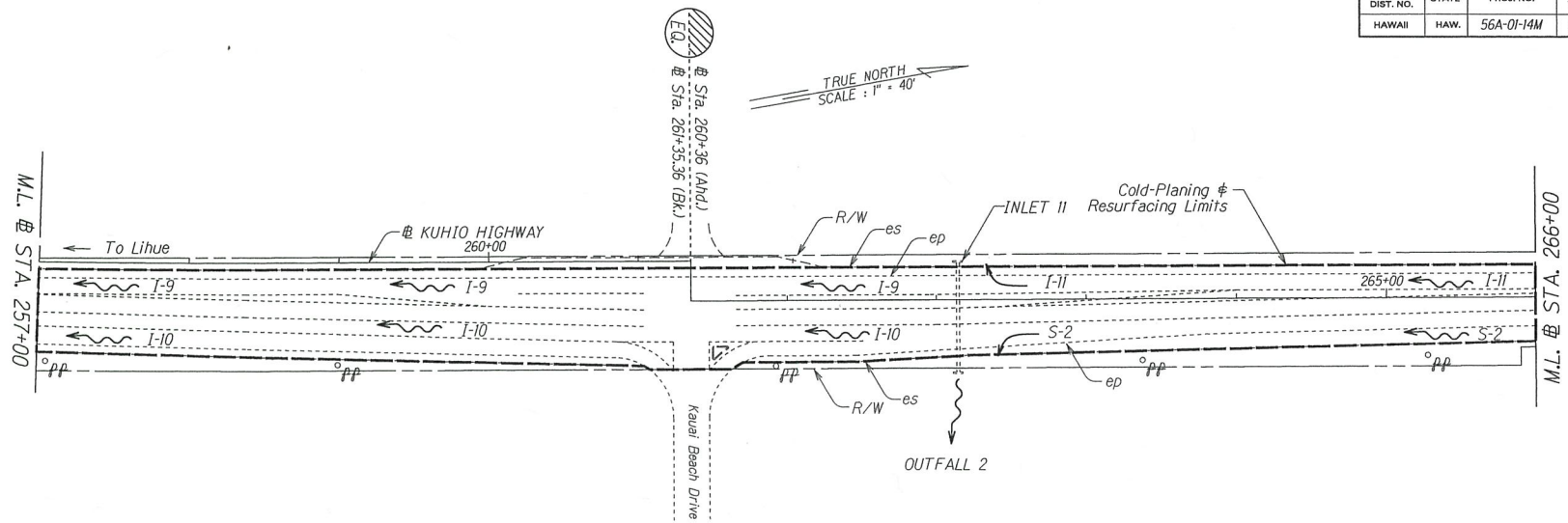
KUHIO HIGHWAY RESURFACING
Kapule Highway to North Leho Drive
Project No. 56A-01-14M

Scale: 1" = 40' Date: Oct. 2016

SHEET No. 1 OF 8 SHEETS

DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
IN CHARGE	
APPROVED BY	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-01-14M	2018	11	30



Notes:

- I-9 - Surface runoff to Inlet 9 to Outfall 1 (Stream Perennial)
- I-10 - Surface runoff to Inlet 10 to Outfall 1 (Stream Perennial)
- I-11 - Surface runoff to Inlet 11 to Outfall 2 (Stream Perennial)
- I-12 - Surface runoff to Inlet 12 to Outfall 3 (Stream Perennial)
- S-2 - Surface runoff to Outfall 2 (Stream Perennial)
- S-3 - Surface runoff to Outfall 3 (Stream Perennial)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

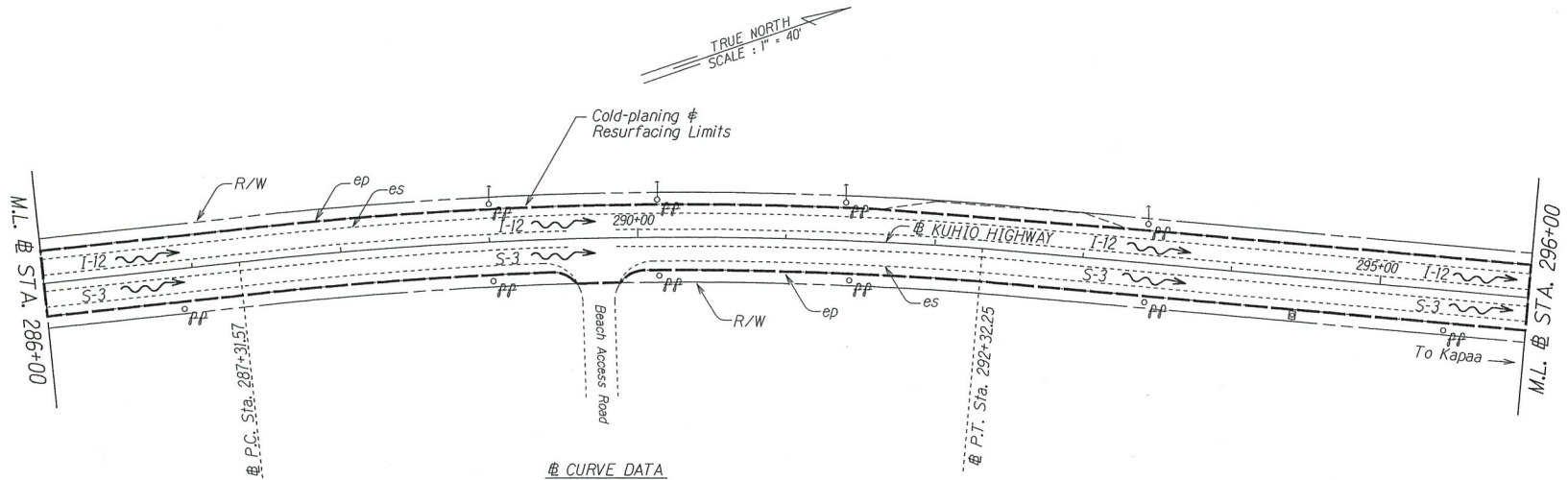
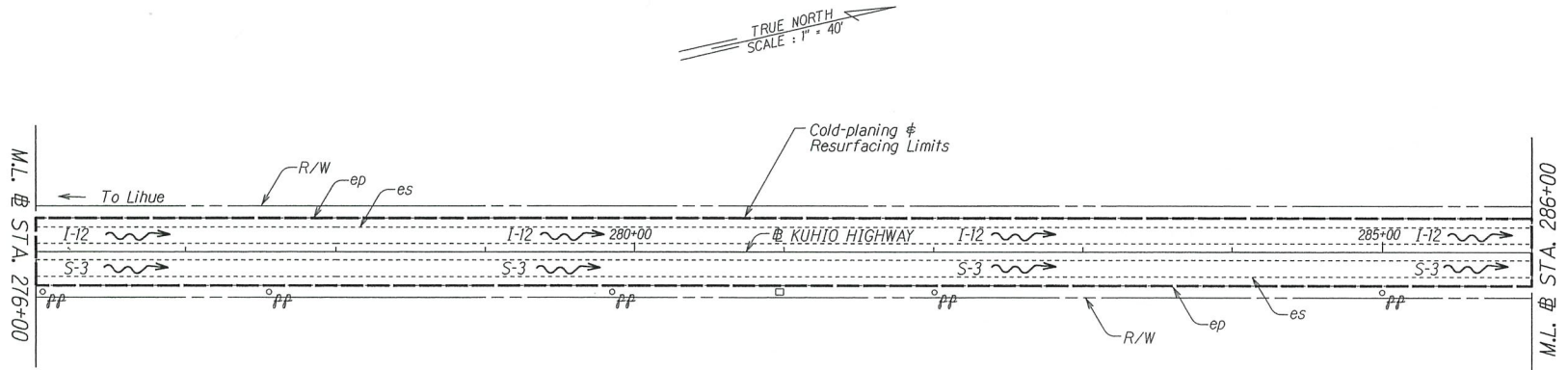
KUHIO HIGHWAY RESURFACING
Kapule Highway to North Leho Drive
Project No. 56A-01-14M

Scale: 1" = 40' Date: Oct. 2016

SHEET No. 2 OF 8 SHEETS

DESIGNED BY	DATE
TRACED BY	
NOTED BY	
QUANTITIES BY	
CHECKED BY	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-01-14M	2018	12	30



② CURVE DATA

$\Delta = 14^{\circ}27'00''$
 $R = 1,500.00$
 $T = 86.16$
 $L = 288.90$

Notes:

- I-12 — Surface runoff to Inlet 12 to Outfall 3 (Stream Perennial)
- S-3 — Surface runoff to Outfall 3 (Stream Perennial)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

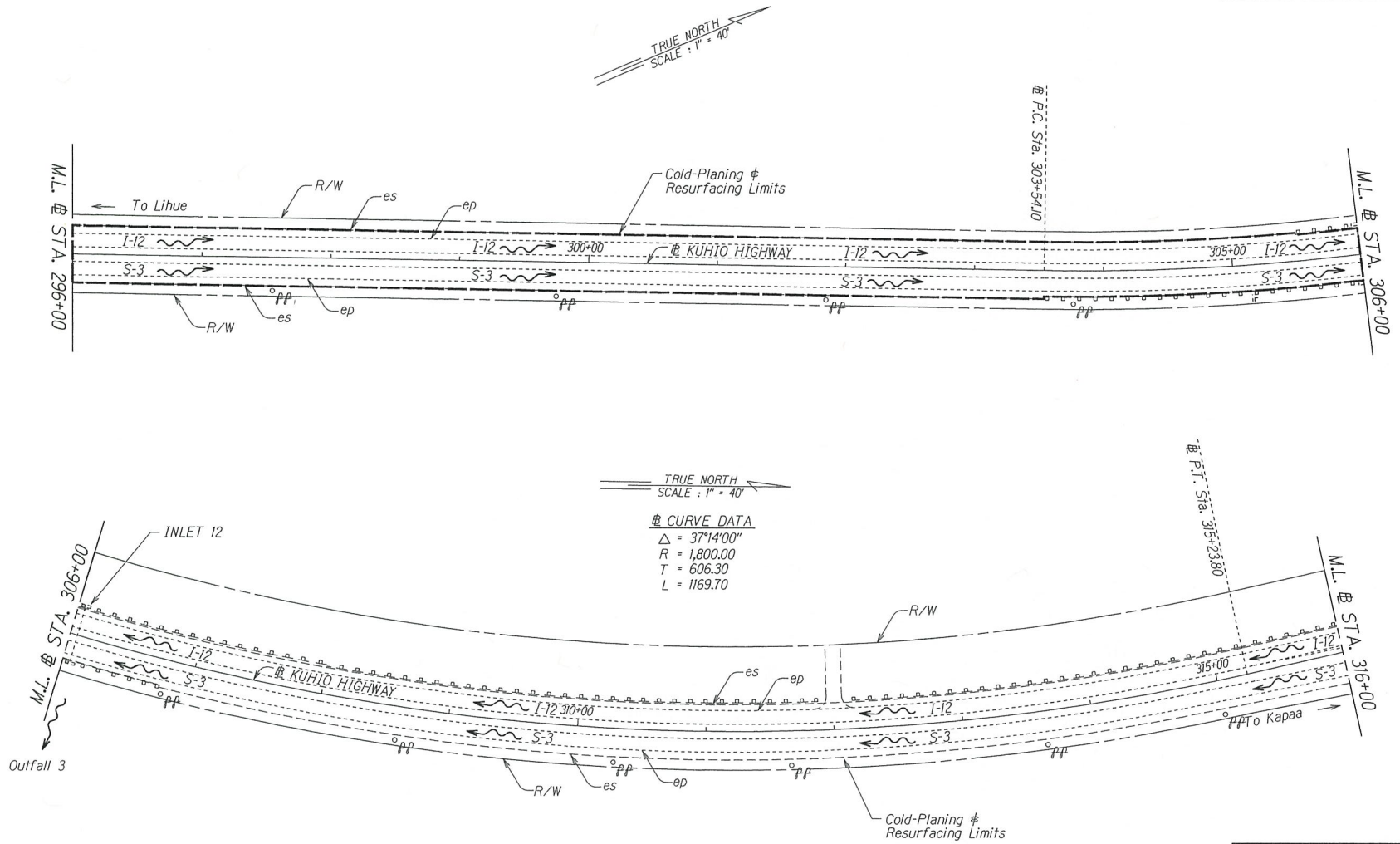
KUHIO HIGHWAY RESURFACING
 Kapule Highway to North Leho Drive
 Project No. 56A-01-14M

Scale: 1" = 40'

Date: Oct. 2016

SHEET No. 3 OF 8 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-01-14M	2018	13	30



Notes:

- I-12 - Surface runoff to Inlet 12 to Outfall 3 (Stream Perennial)
- S-3 - Surface runoff to Outfall 3 (Stream Perennial)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

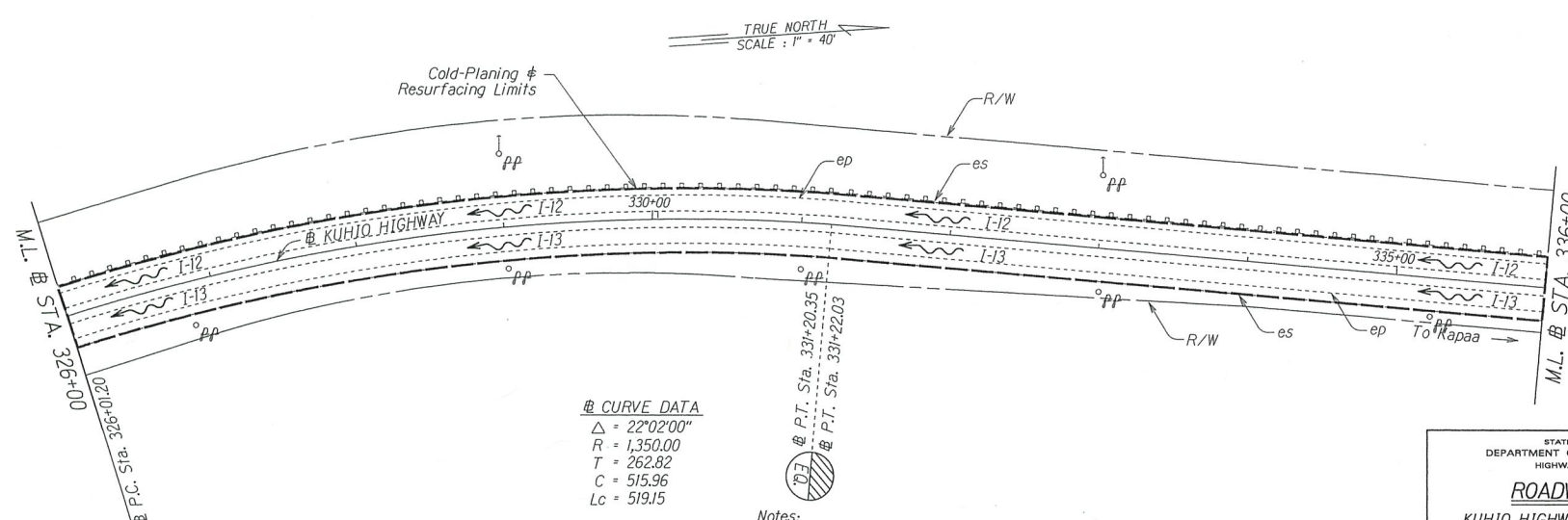
ROADWAY PLAN

KUHIO HIGHWAY RESURFACING
Kapule Highway to North Leho Drive
Project No. 56A-01-14M

Scale: 1" = 40'

Date: Oct. 2016

SHEET No. 4 OF 8 SHEETS



④ CURVE DATA
 $\Delta = 22^{\circ}02'00''$
 $R = 1,350.00$
 $T = 262.82$
 $C = 515.96$
 $LC = 519.15$

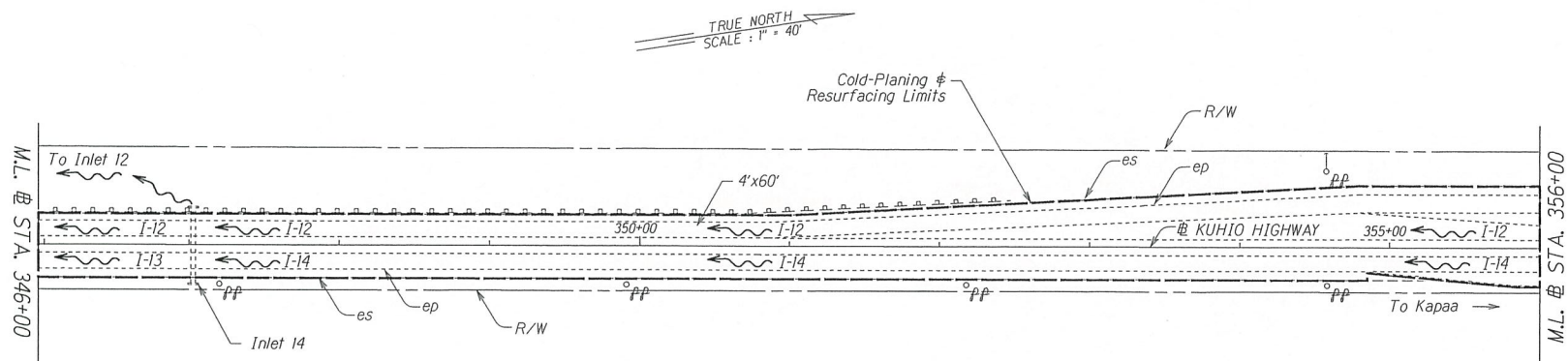
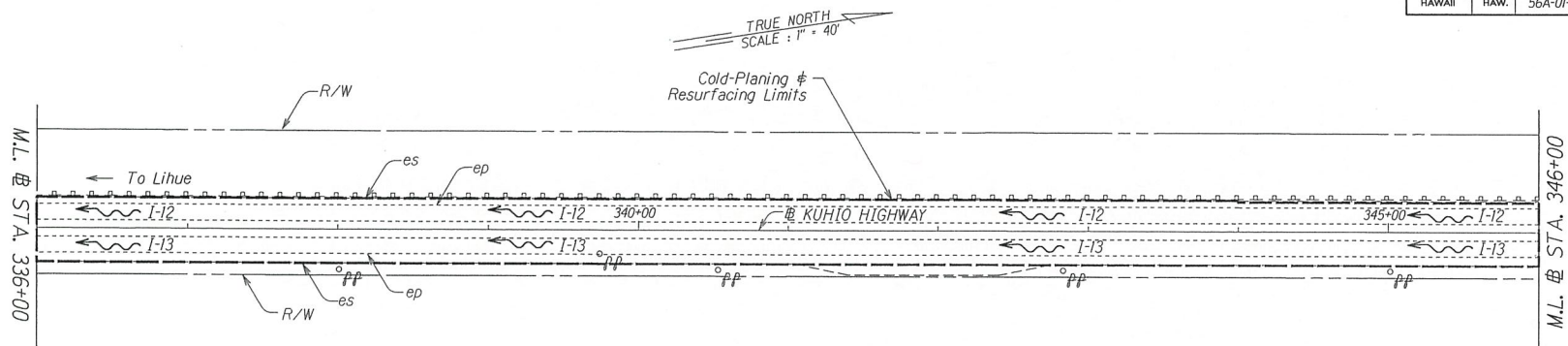
I-12 – Surface runoff to Inlet 12 to Outfall 3 (Stream Perennial)
I-13 – Surface runoff to Inlet 13 to Inlet 12 to Outfall 3 (Stream Perennial)
S-3 – Surface runoff to Outfall 3 (Stream Stream Perennial)

KUHIO HIGHWAY RESURFACING
Kapule Highway to North Leho Drive
Project No. 56A-01-14M

Date: Oct. 2016

SHEET No. 5 OF 8 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-01-14M	2018	15	30



Notes:

- I-12 - Surface runoff to Inlet 12 to Outfall 3 (Stream Perennial)
- I-13 - Surface runoff to Inlet 13 to Inlet 12 to Outfall 3 (Stream Perennial)
- I-14 - Surface runoff to Inlet 14 to Inlet 12 to Outfall 3 (Stream Perennial)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

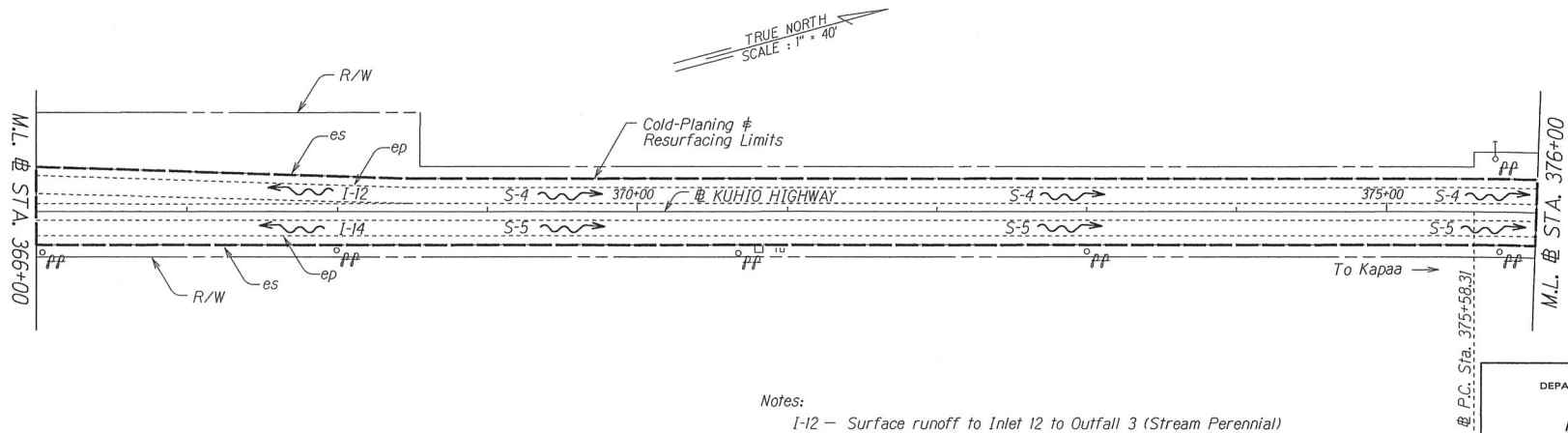
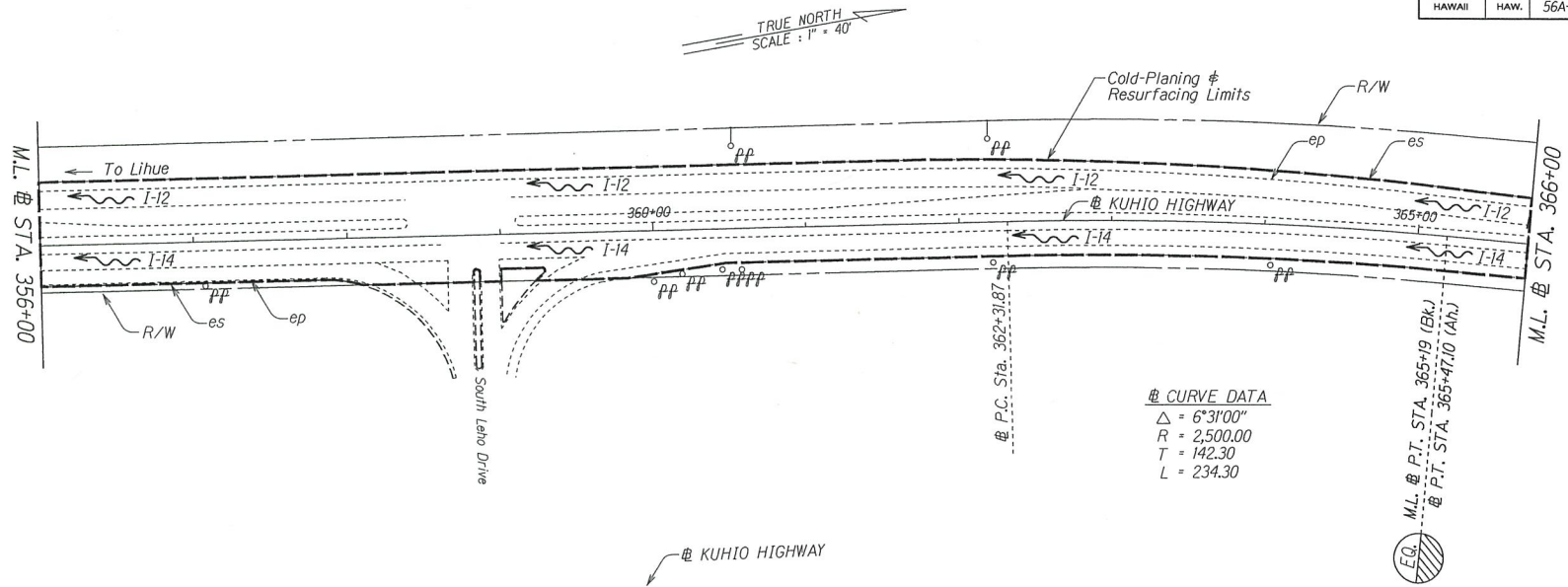
KUHIO HIGHWAY RESURFACING
Kapule Highway to North Leho Drive
Project No. 56A-01-14M

Scale: 1" = 40'

Date: Oct. 2016

SHEET No. 6 OF 8 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-01-14M	2016	16	30



Notes:

- I-12 - Surface runoff to Inlet 12 to Outfall 3 (Stream Perennial)
- I-14 - Surface runoff to Inlet 14 to Inlet 12 to Outfall 3 (Stream Perennial)
- S-4 - Surface runoff to Outfall 4 (Wailua River)
- S-5 - Surface runoff to Outfall 5 (Wailua River)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

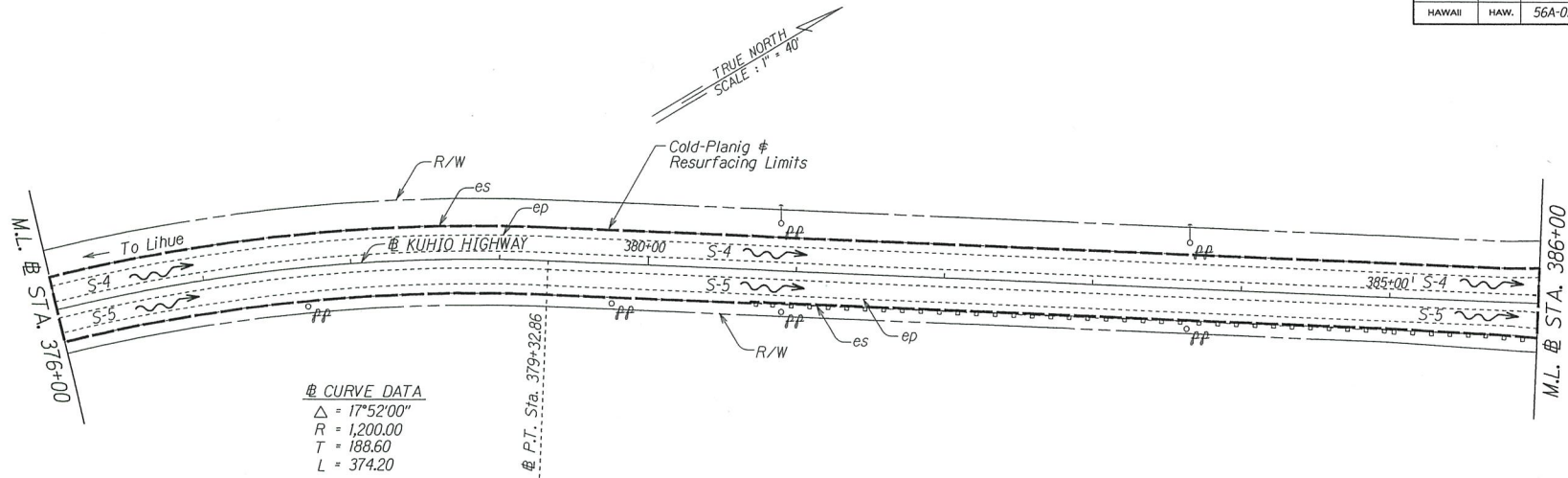
KUHIO HIGHWAY RESURFACING
Kapule Highway to North Leho Drive
Project No. 56A-01-14M

Scale: 1" = 40'

Date: Oct. 2016

SHEET No. 7 OF 8 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-01-14M	2018	17	30



DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
APPROVED BY	
PROJECT NO.	
SHEET NO.	
TOTAL SHEETS	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

KUHIO HIGHWAY RESURFACING
Kapule Highway to North Leho Drive
Project No. 56A-01-14M

Scale: 1" = 40' Date: Oct. 2016

SHEET No. 8 OF 8 SHEETS