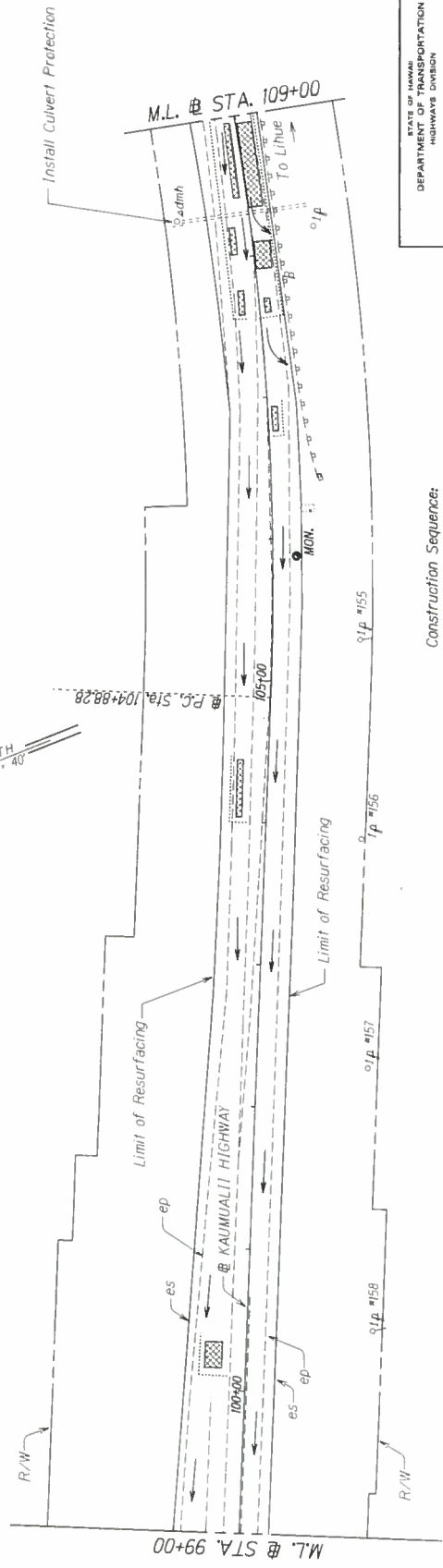
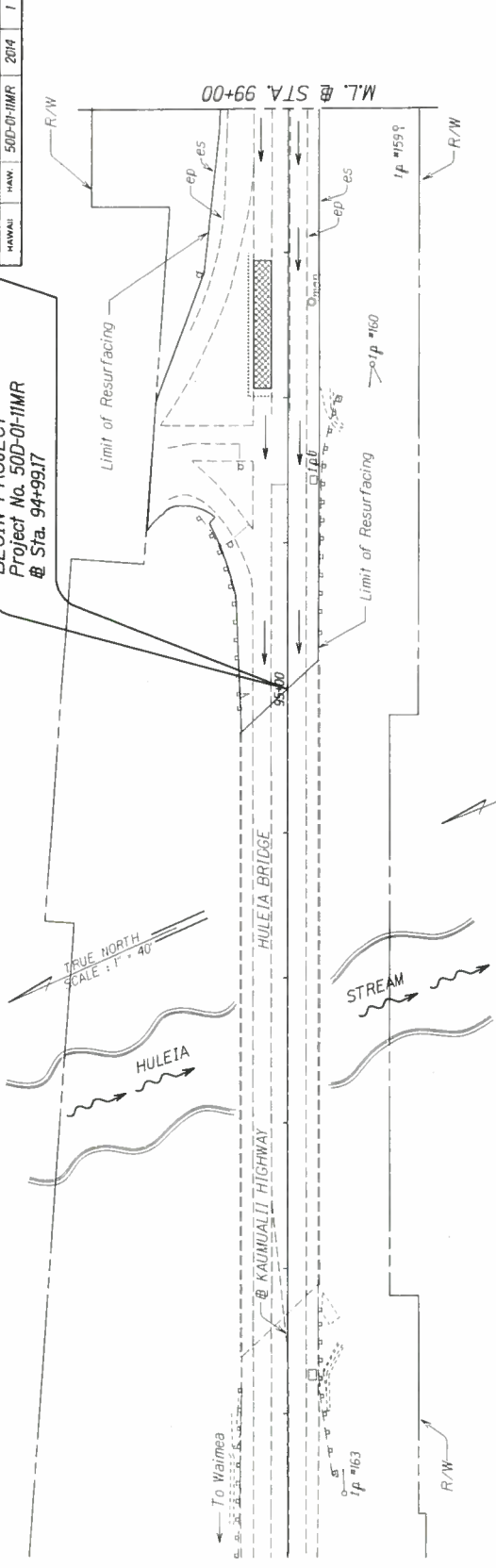


SWPPP ATTACHMENTS

SWPPP Attacment A-1
BMP Maps

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	50D-01-11MR	2014	1	5

BEGIN PROJECT
Project No. 50D-01-11MR
@ Sta. 94+99.17



- LEGEND:**
- Pavement Reconstruction
 - Sediment Control Devices

- Construction Sequence:**
1. Install culvert protection
 2. Install perimeter sediment control
 3. Reconstruct weakened pavement areas
 4. Remove perimeter sediment control after reconstructed areas are established
 5. Remove all BMP's

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

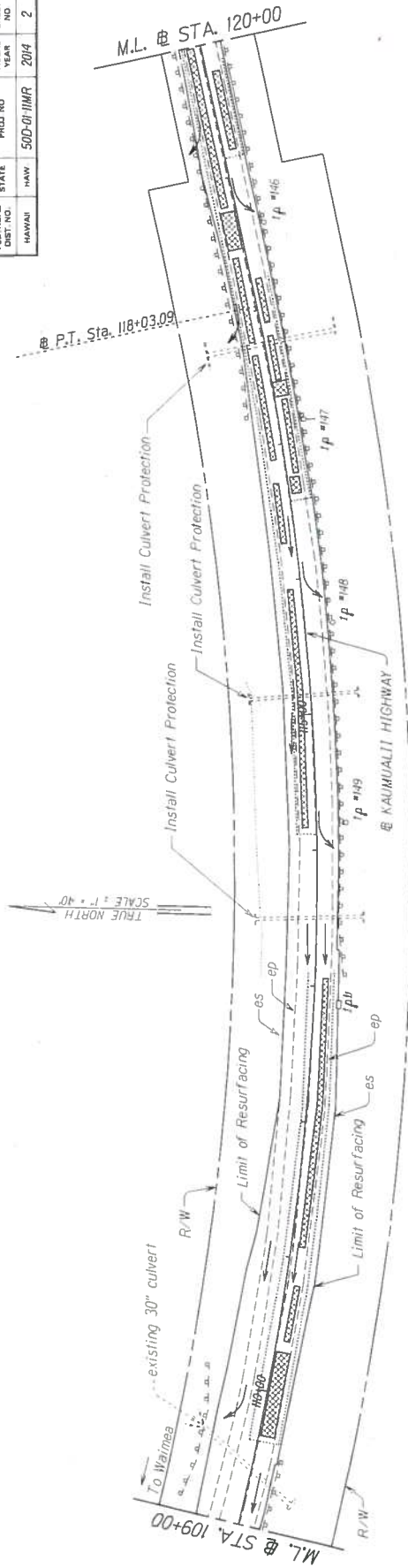
KAUNUALI HIGHWAY RESURFACING
Kilauea Road to Huleia Bridge
Proj. No. 50D-01-11MR

Scale: 1"=40' Date: Oct. 2013

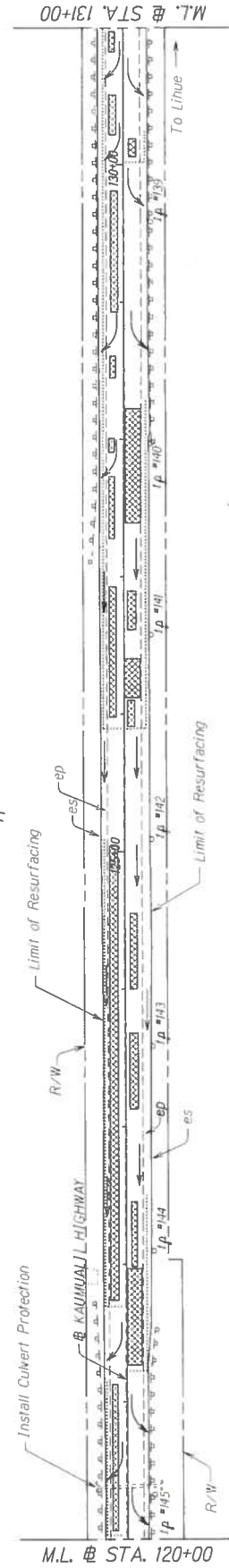
SHEET NO. 1 OF 5 SHEETS

DESIGNED BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE
PROJECT NO.	50D-01-11MR
SHEET NO.	1
TOTAL SHEETS	5

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	50D-011MR	2014	2	5



SCALE: 1" = 40'
TRUE NORTH



LEGEND:

- Pavement Reconstruction
- Sediment Control Devices

- Construction Sequence:
1. Install culvert protection
 2. Install perimeter sediment control
 3. Reconstruct weakened pavement areas
 4. Remove perimeter sediment control after reconstructed areas are established
 5. Remove all BMP's

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

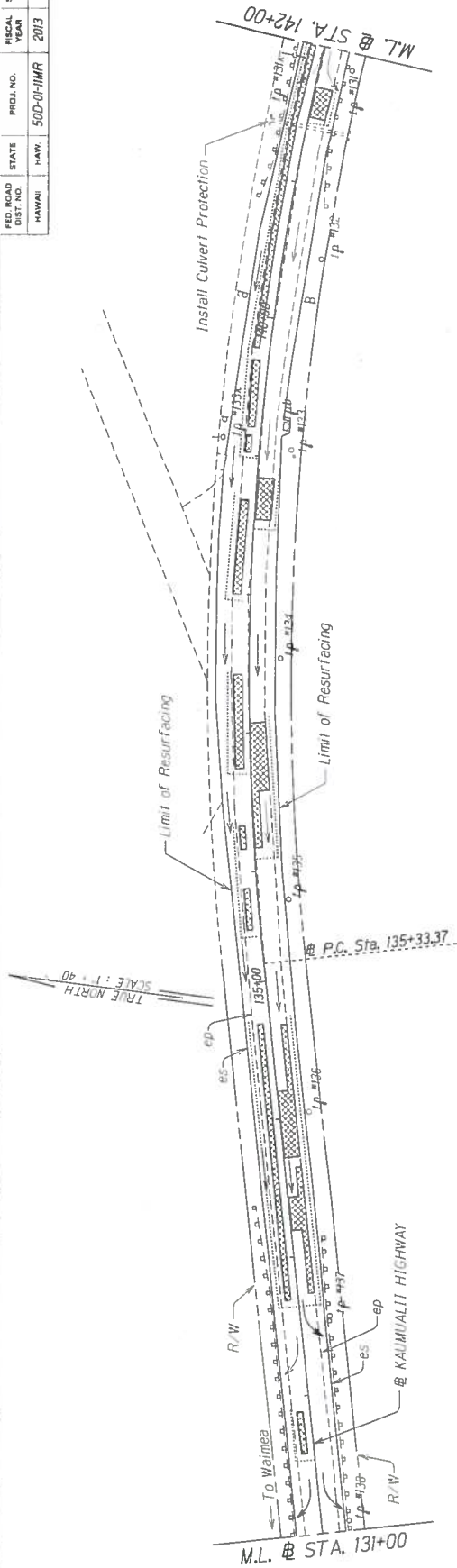
ROADWAY PLAN

KAUNUALII HIGHWAY RESURFACING
Kila Road to Huleia Bridge
Proj. No. 50D-011MR

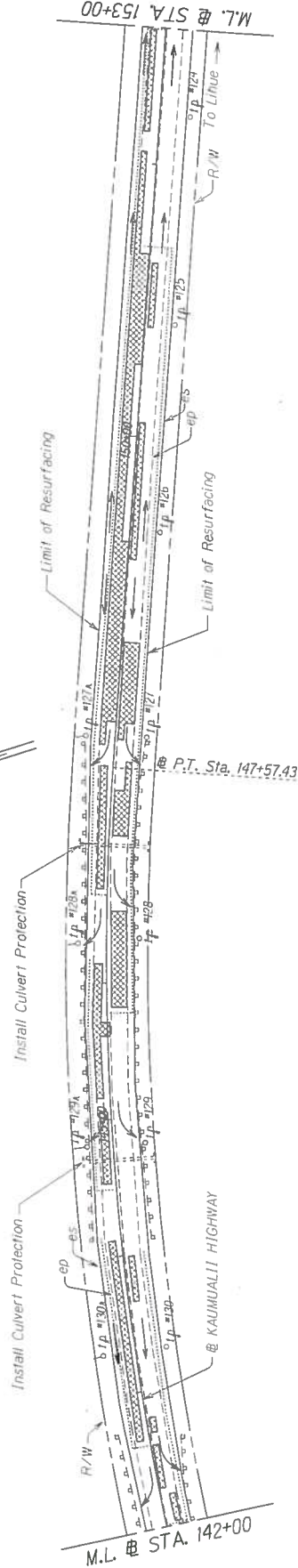
Scale: 1" = 40'
Date: Oct. 2013
SHEET NO. 2 OF 5 SHEETS

REVISION	DATE	BY	CHKD
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	50D-01-11MR	2013	3	5



TRUE NORTH
SCALE: 1" = 40'



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAY DIVISION

ROADWAY PLAN

KAUMUALII HIGHWAY RESURFACING
Kipu Road to Huleia Bridge
Proj. No. 50D-01-11MR

Scale: 1" = 40' Date: Oct. 2013

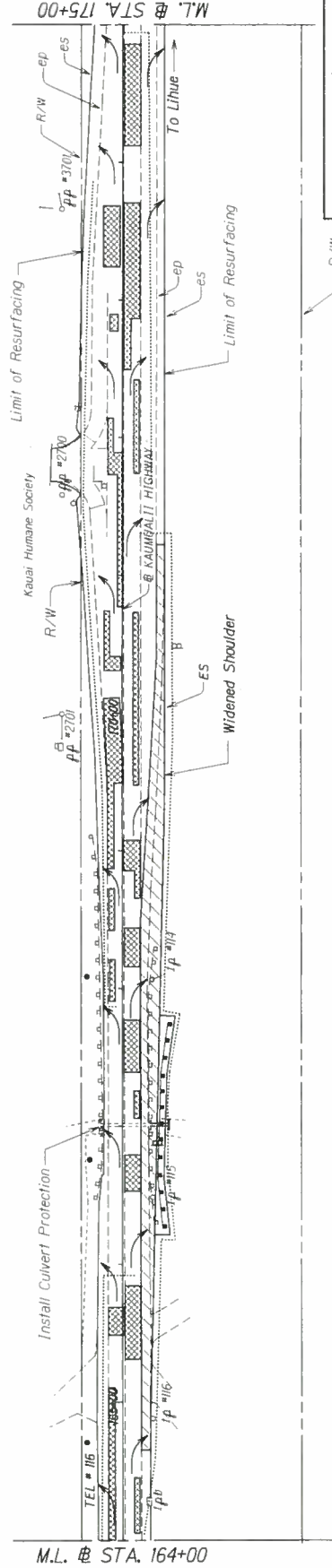
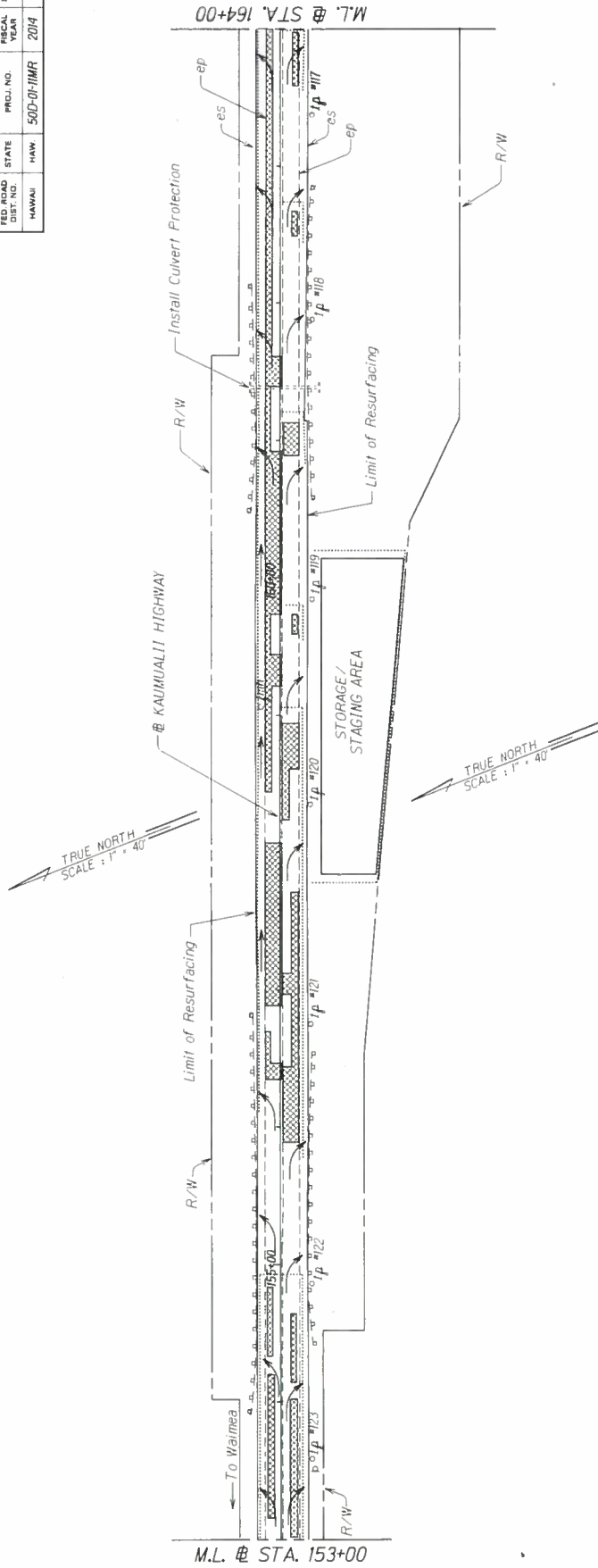
SHEET NO. 3 OF 5 SHEETS

- Construction Sequence:
1. Install culvert protection
 2. Install perimeter sediment control
 3. Reconstruct weakened pavement areas
 4. Remove perimeter sediment control after reconstructed areas are established
 5. Remove all BMP's

- LEGEND:
- Pavement Reconstruction
 - Sediment Control Devices

DATE	BY	REVISION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	50D-011MR	4	5



- Construction Sequence:
1. Install culvert protection
 2. Install perimeter sediment control
 3. Reconstruct weakened pavement areas
 4. Remove perimeter sediment control after reconstructed areas are established
 5. Remove all BMP's

LEGEND:

▨ - Pavement Reconstruction

----- - Sediment Control Devices

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

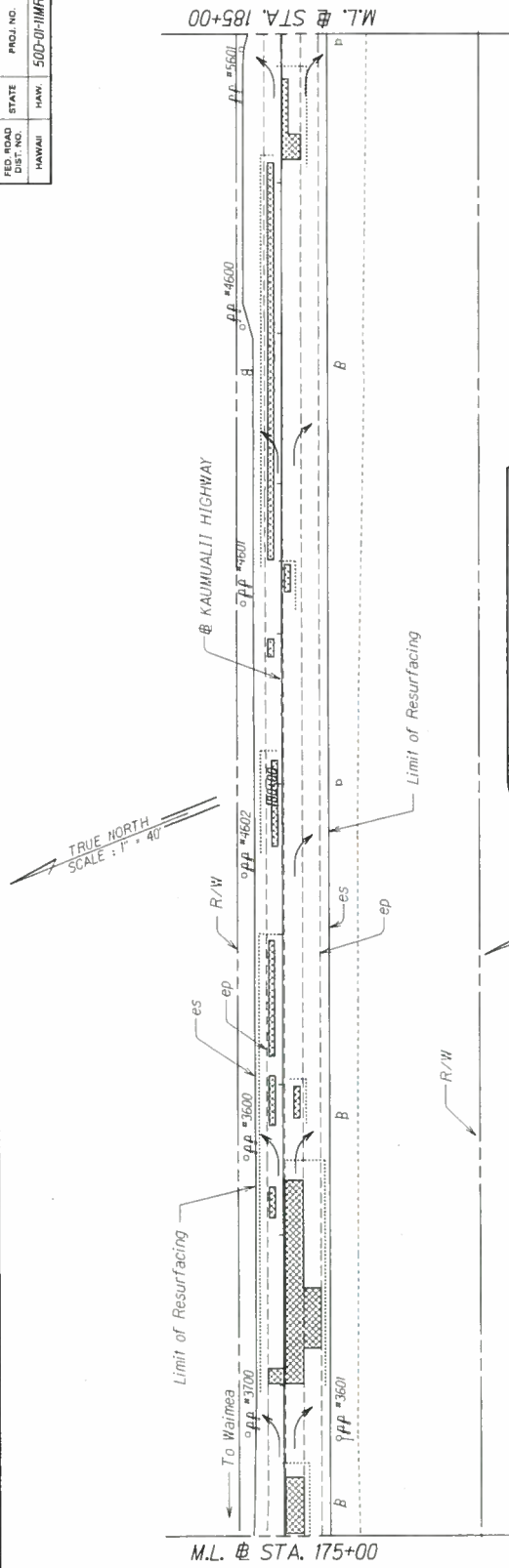
ROADWAY PLAN

KAUHAU II HIGHWAY RESURFACING
Kilauea Road to Huleia Bridge
Proj. No. 50D-011MR

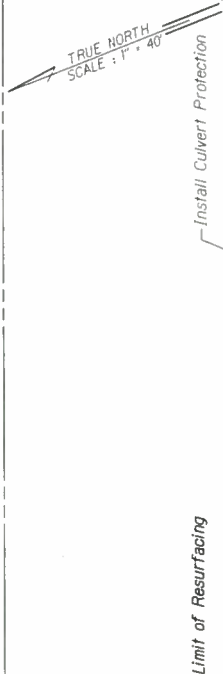
Scale: 1"=40' Date: Oct. 2013

DESIGNED BY	____
CHECKED BY	____
IN CHARGE	____
DATE	____

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	50D-01-11MR	2013	5	5



END PROJECT
Project No. 50D-01-11MR
@ Sta. 189+17



Limit of Resurfacing

M.L. @ STA. 185+00

LEGEND:

- Pavement Reconstruction
- Sediment Control Devices

- Construction Sequence:
1. Install culvert protection
 2. Install perimeter sediment control
 3. Reconstruct weakened pavement areas
 4. Remove perimeter sediment control after reconstructed areas are established
 5. Remove all BMP's

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

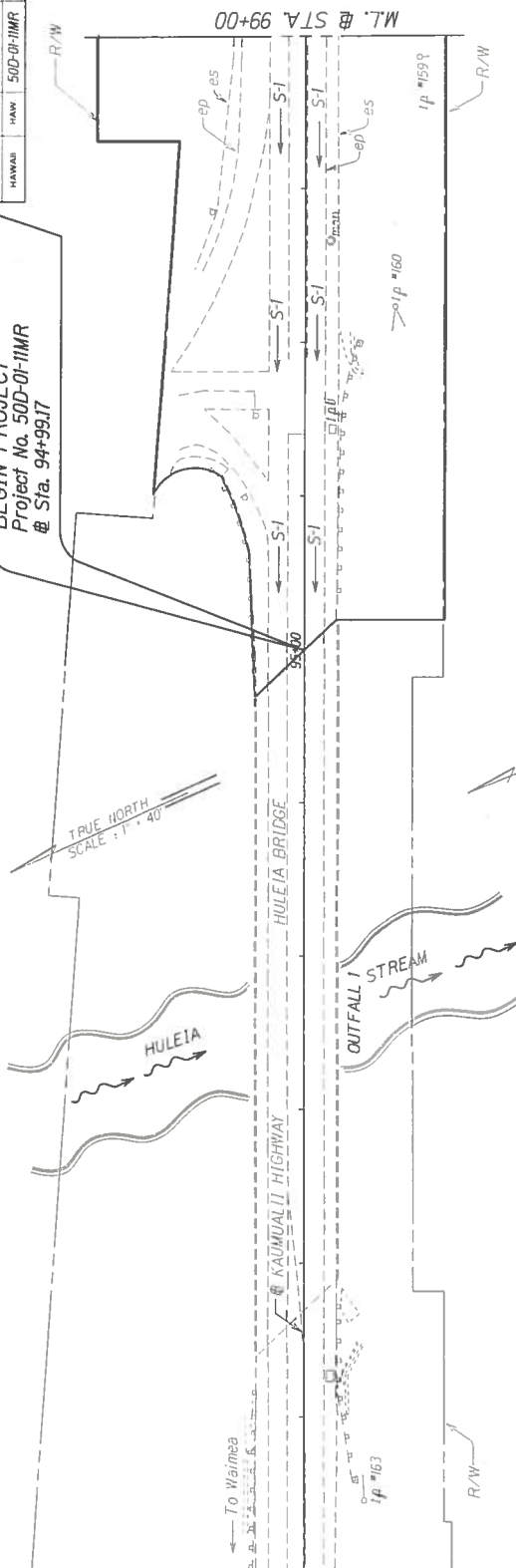
KAUNUALII HIGHWAY RESURFACING
KIPU ROAD to Huliea Bridge
Proj. No. 50D-01-11MR

Scale: 1"=40' Date: Oct. 2013

SHEET NO. 5 OF 5 SHEETS

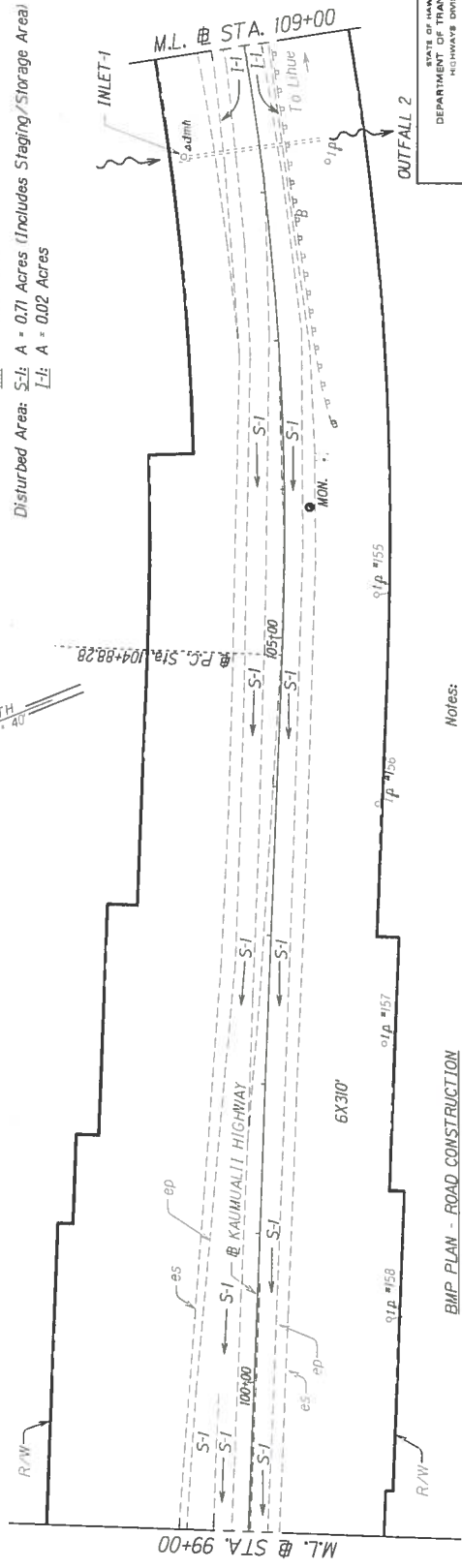
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII		50D-01-HMR	2014	1	5

BEGIN PROJECT
Project No. 50D-01-HMR
@ Sta. 94+99.17



Site Area: S-1: A = 5.39 Acres
I-1: A = 0.60 Acres
Disturbed Area: S-1: A = 0.71 Acres (Includes Staging/Storage Area)
I-1: A = 0.02 Acres

TRUE NORTH
SCALE: 1" = 40'



BMP PLAN - ROAD CONSTRUCTION
(Reconstruction of weakened pavement areas, Cold-planing, Resurfacing)

Notes:
S-1 — Surface runoff discharge to Outfall 1 (Huleia Stream)
I-1 — Surface runoff to Inlet 1 to Outfall 2 (Huleia Stream)

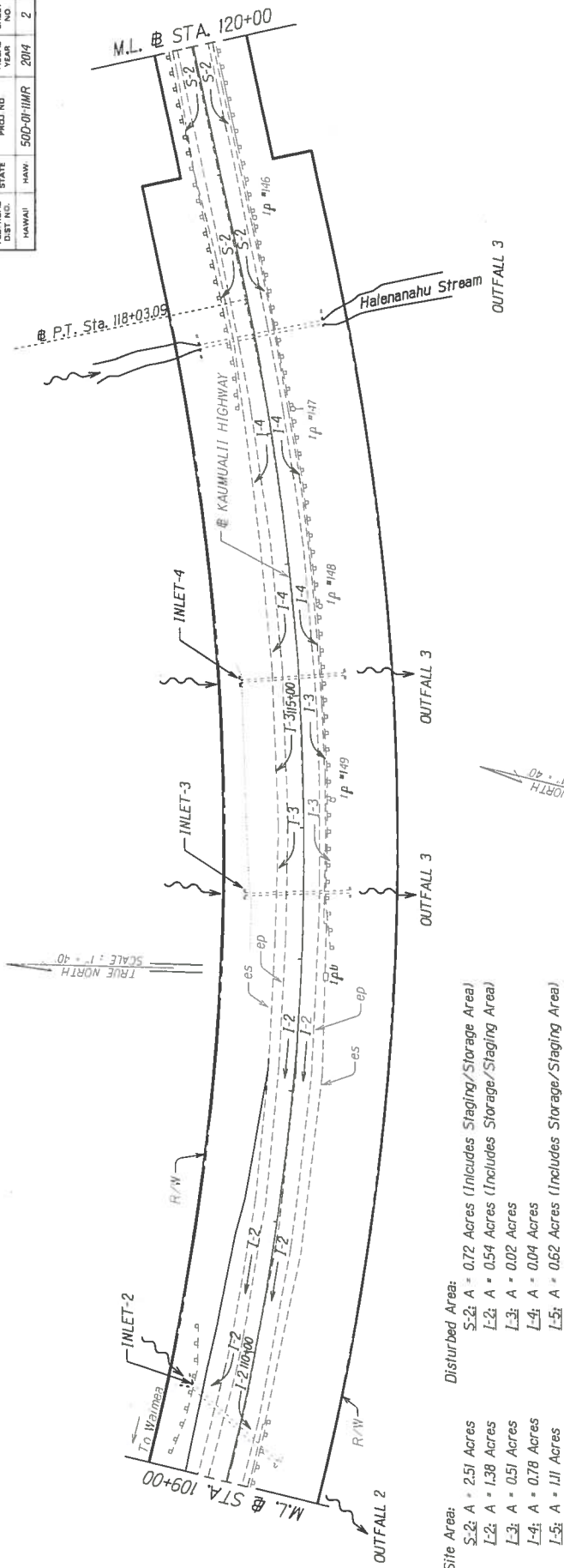
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

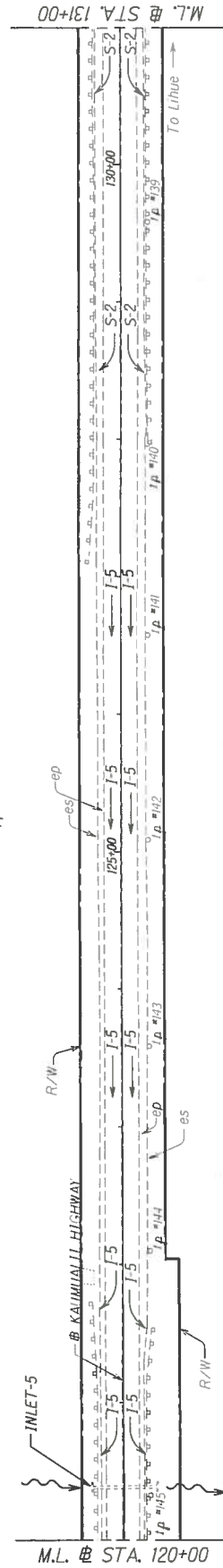
KAUNUALII HIGHWAY RESURFACING
Kipou Road to Huleia Bridge
Proj. No. 50D-01-HMR
Scale: 1"=40' Date: Oct. 2013

DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
APPROVED BY	
DATE	

DESIGN NO.	STATE	PROJ. NO.	YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	500-01-11MR	2014	2	5



- Site Area:**
- S-2: A = 2.51 Acres
 - I-2: A = 1.38 Acres
 - I-3: A = 0.51 Acres
 - I-4: A = 0.78 Acres
 - I-5: A = 1.11 Acres
- Disturbed Area:**
- S-2: A = 0.72 Acres (Includes Staging/Storage Area)
 - I-2: A = 0.54 Acres (Includes Storage/Staging Area)
 - I-3: A = 0.02 Acres
 - I-4: A = 0.04 Acres
 - I-5: A = 0.62 Acres (Includes Storage/Staging Area)



- Notes:**
- S-2 - Surface runoff discharge to Outfall 3 (Halenahanu Stream)
 - I-2 - Surface runoff to Inlet-2 to Outfall 2 (Huleia Stream)
 - I-3 - Surface runoff to Inlet-3 to Outfall 3 (Halenahanu Stream)
 - I-4 - Surface runoff to Inlet-4 to Outfall 3 (Halenahanu Stream)
 - I-5 - Surface runoff to Inlet-5 to Outfall 4 (Huleia Stream)

BMP PLAN - ROAD CONSTRUCTION
(Reconstruction of weakened pavement areas, Cold-planing, Resurfacing)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAY DIVISION

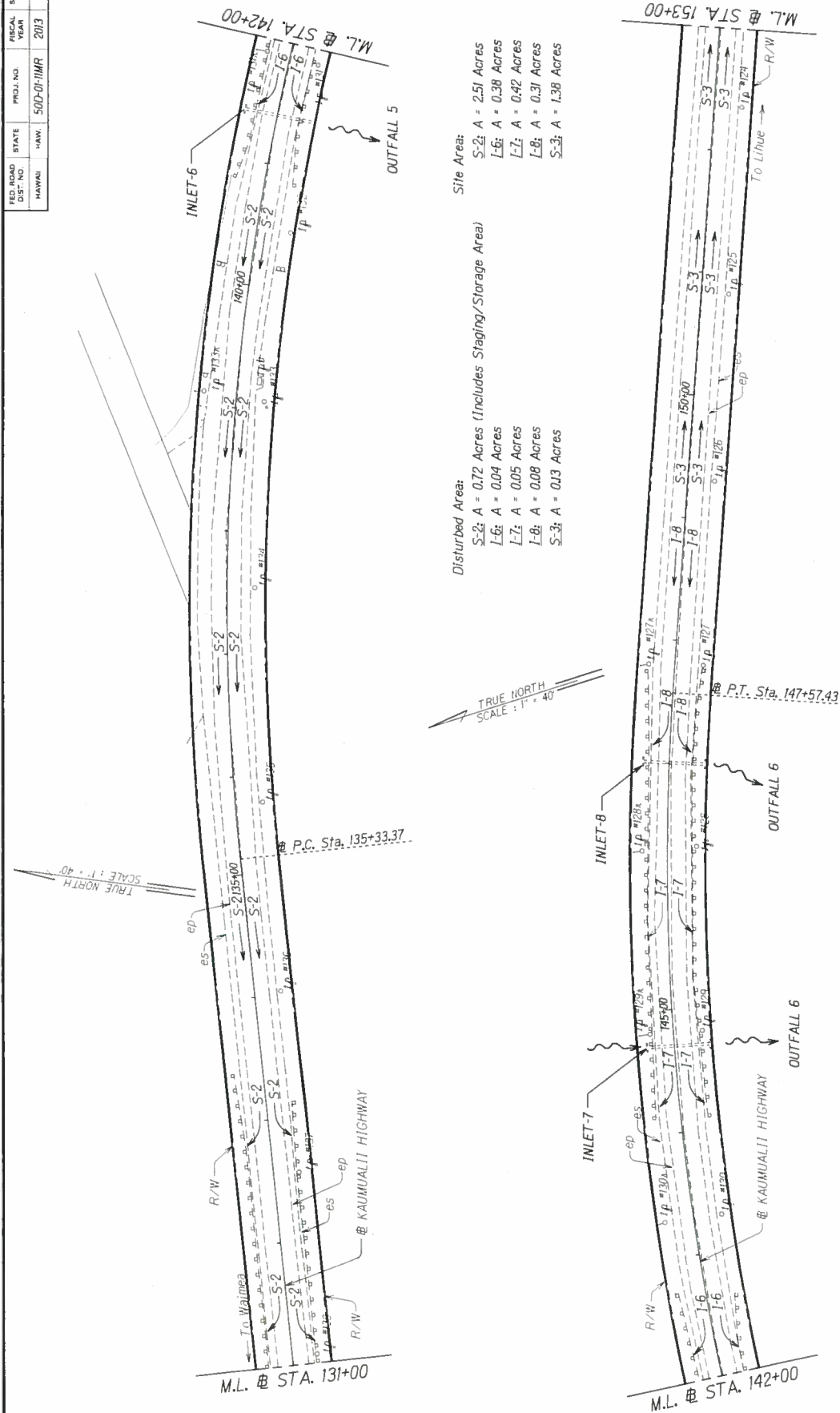
ROADWAY PLAN

KAUHUALI HIGHWAY RESURFACING
Kipu Road to Huleia Bridge
Proj. No. 500-01-11MR

Scale: 1" = 40' Date: Oct. 2013

SHEET No. 2 OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	50D-01-HMR	2013	3	5

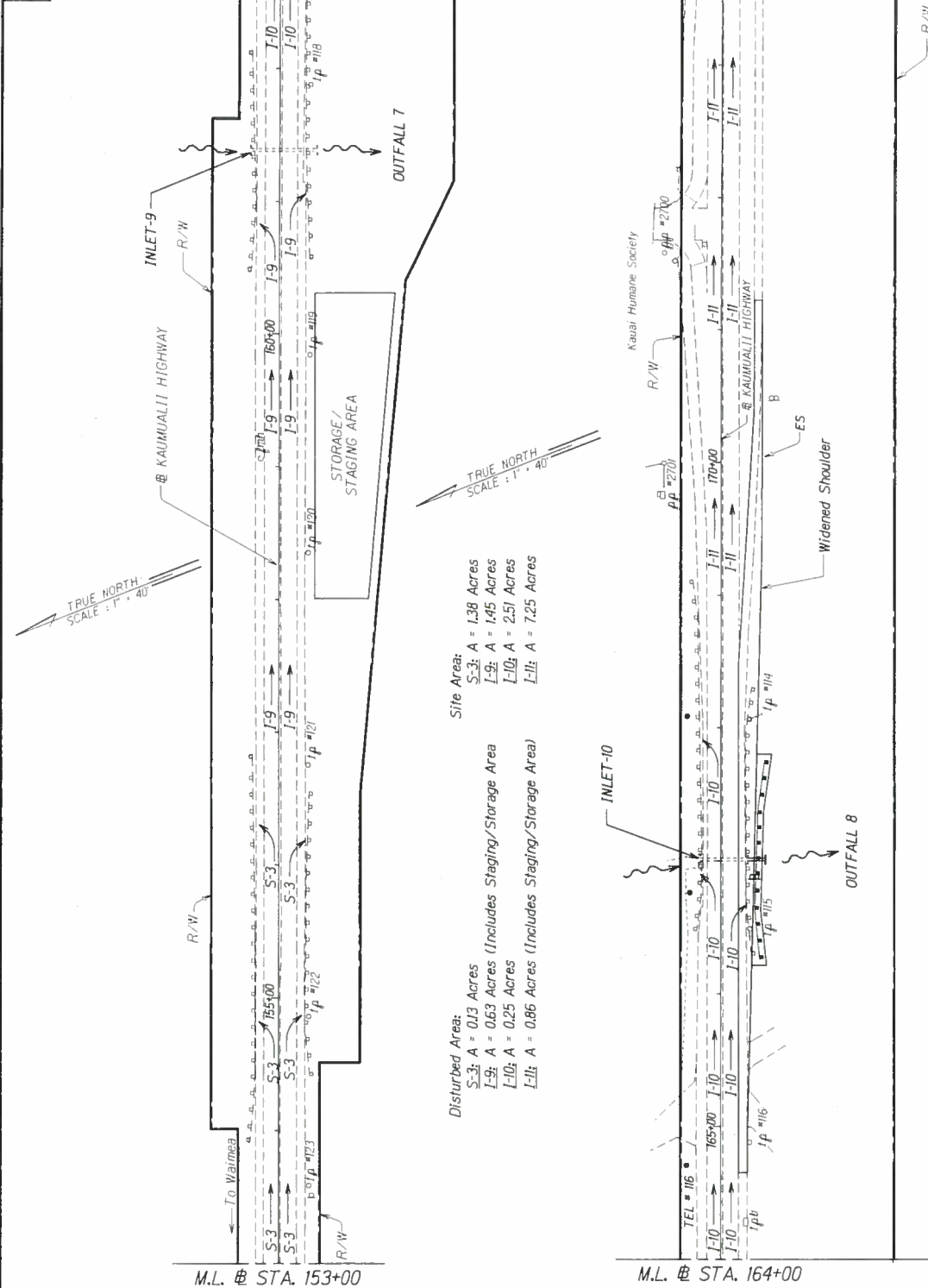


STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN
KAUMUALII HIGHWAY RESURFACING
Kipu Road to Huleia Bridge
Proj. No. 50D-01-HMR
Scale: 1" = 40' Date: Oct. 2013

DATE	BY	REVISION

DESIGN NO.	STATE	PROJ. NO.	LEGAL	SHEET	TOTAL
HAWAII	HAW.	50D-01-1MR	2014	4	5



Disturbed Area:
 S-3: A = 0.13 Acres
 I-9: A = 0.63 Acres (Includes Staging/Storage Area)
 I-10: A = 0.25 Acres
 I-11: A = 0.86 Acres (Includes Staging/Storage Area)

Site Area:
 S-3: A = 1.38 Acres
 I-9: A = 1.45 Acres
 I-10: A = 2.51 Acres
 I-11: A = 7.25 Acres

- Notes:**
- S-3 — Surface runoff discharge to Outfall No. 7 (Huleia Stream)
 - I-9 — Surface runoff to Inlet-9 to Outfall No. 7 (Huleia Stream)
 - I-10 — Surface runoff to Inlet-10 to Outfall No. 8 (Huleia Stream)
 - I-11 — Surface runoff to Inlet-11 to Outfall No. 9 (Huleia Stream)

BMP PLAN - ROAD CONSTRUCTION
 (Reconstruction of weakened pavement areas, Cold-planing, Resurfacing, Extend pipe culvert structure, Replace guardrail, Widening of paved shoulder)

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

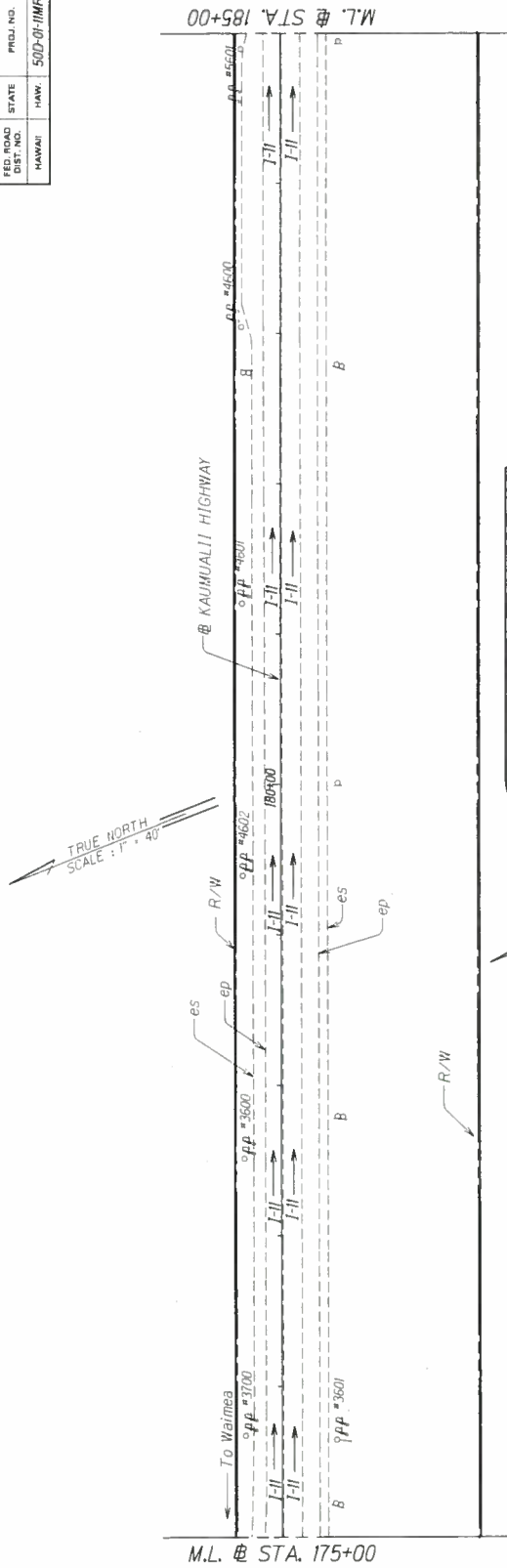
ROADWAY PLAN

KAUMUALII HIGHWAY RESURFACING
 Kilauea Road to Huleia Bridge

Proj. No. 50D-01-1MR
 Date: Oct. 2013
 Scale: 1"=40'

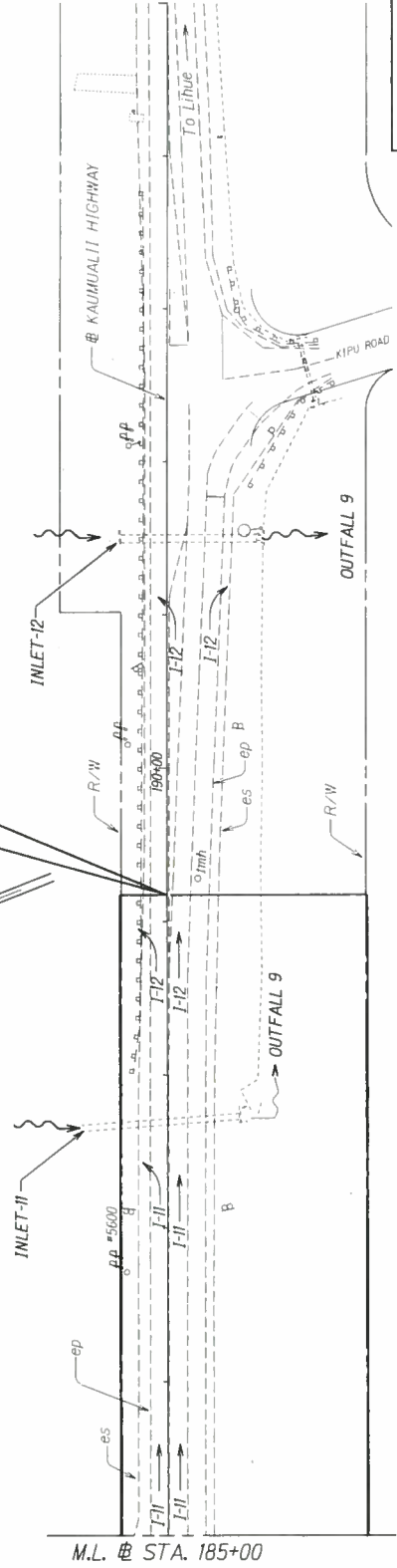
DATE	BY	CHKD	APP'D

FEED ROAD DIST. NO.	STATE	PROJ. NO.	FEED. NO.	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	50D-01-11MR	2013	5	5



Site Area: I-11: A = 7.25 Acres
 I-12: A = 0.55 Acres
 Disturbed Area: I-11: A = 0.86 Acres (Includes Staging/Storage Area)
 I-12: A = 0.11 Acres

END PROJECT
 Project No. 50D-01-11MR
 @ Sta. 189+17



BMP PLAN - ROAD CONSTRUCTION
 (Reconstruction of weakened pavement
 areas, Cold-planing, Resurfacing)

Notes:
 I-11 - Surface runoff to Inlet-11 to Outfall 9 (Huleia Stream)
 I-12 - Surface runoff to Inlet-12 to Outfall 9 (Huleia Stream)

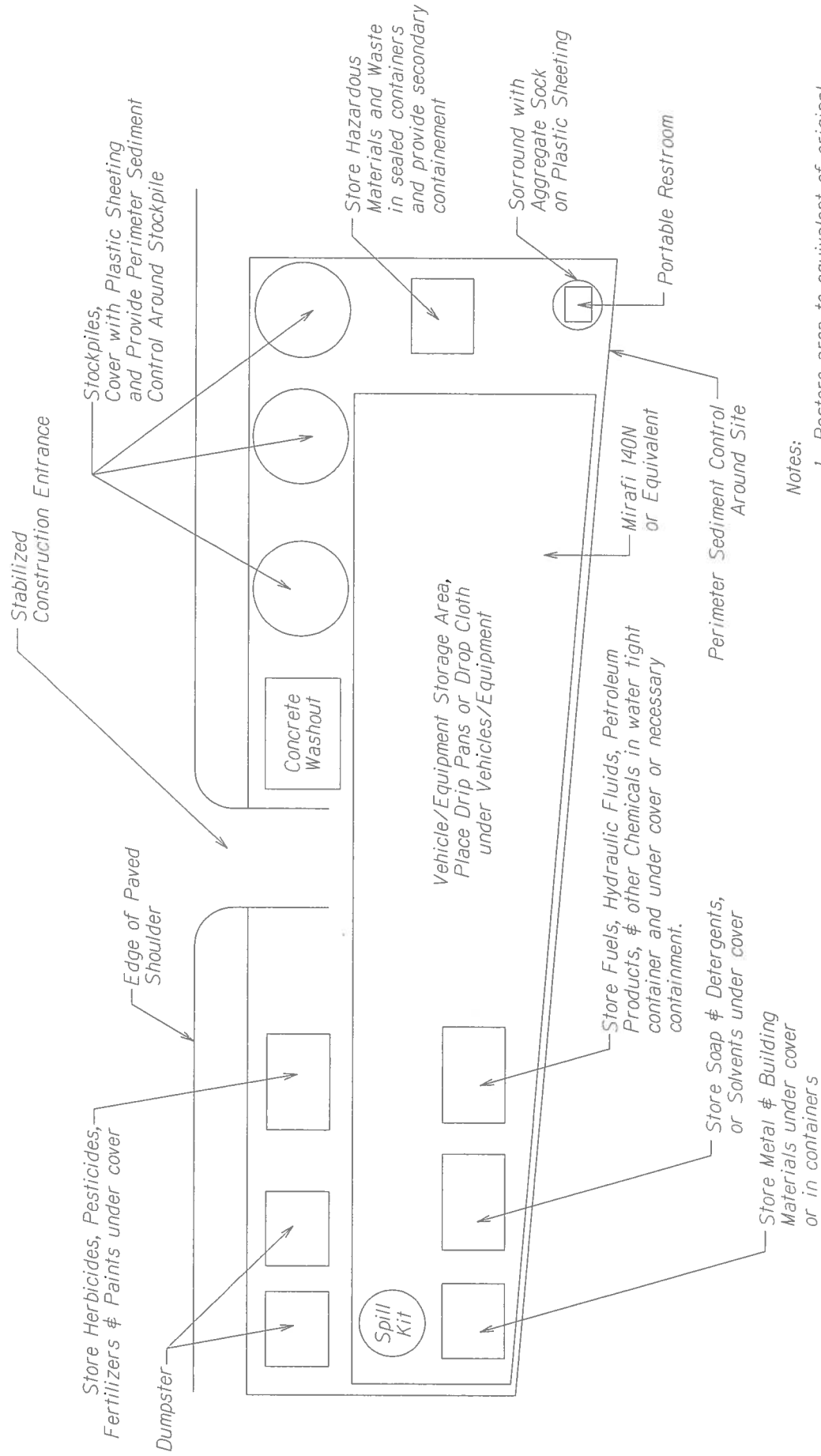
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

ROADWAY PLAN

KAUAIUALII HIGHWAY RESURFACING
 Kipu Road to Huleia Bridge
 Proj. No. 50D-01-11MR

Scale: 1"=40' Date: Oct. 2013

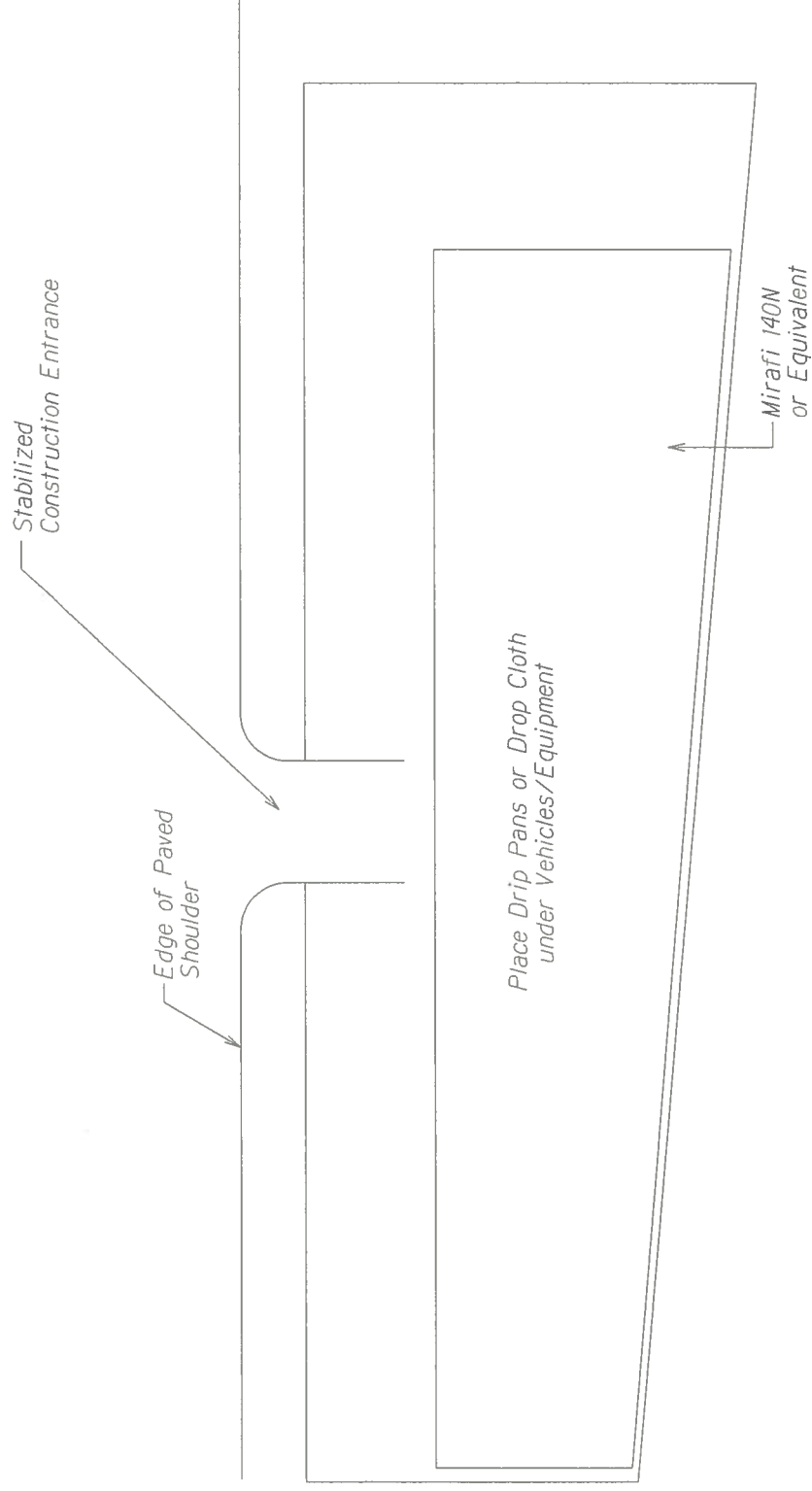
DESIGNED BY	DATE
CHECKED BY	
IN CHARGE	
APPROVED BY	
PLANNED BY	
TRACED BY	
REVIEWED BY	
APPROVED BY	



Notes:

1. Restore area to equivalent of original condition once construction is completed.
2. Contractor shall ensure proper protection for Staging/Storage Area.
3. Do not maintain or wash vehicles on-site. Provide appropriate BMP's if Contractor elects to do so.

STAGING/STORAGE AREA
Not to Scale



EQUIPMENT STORAGE AREA
Not to Scale