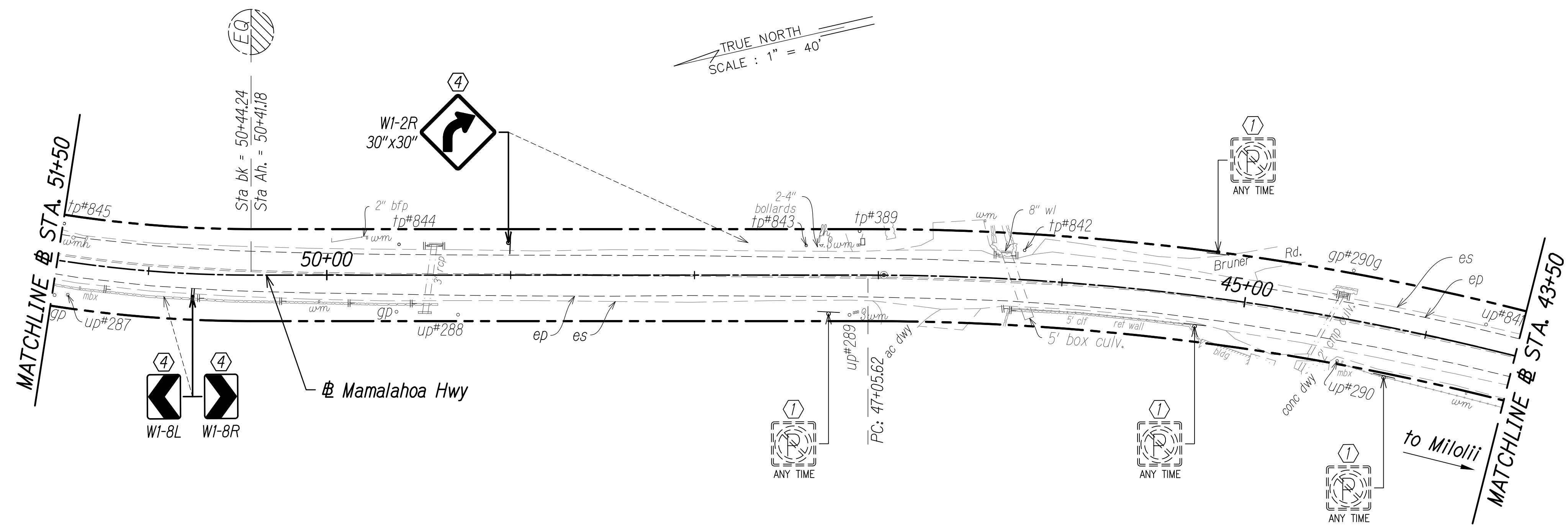
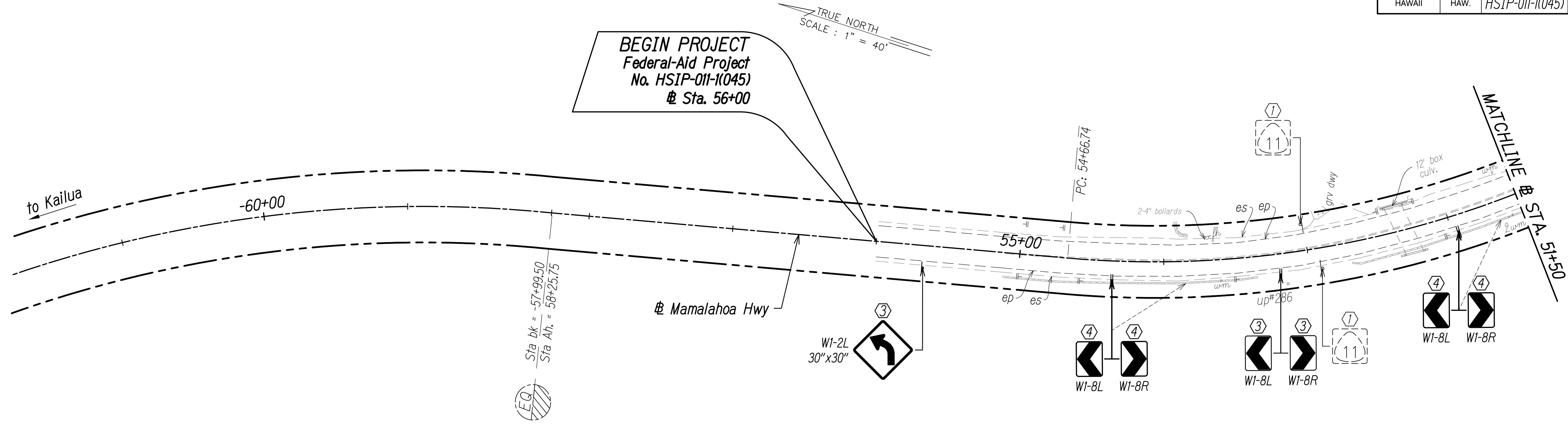
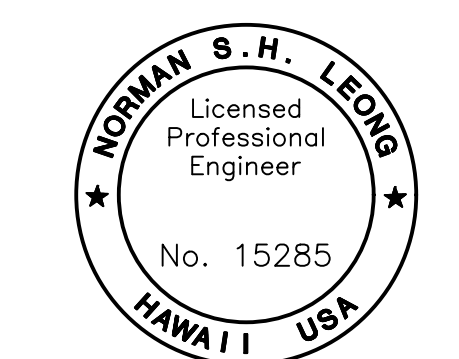


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-011-1(045)	2023	47	114



- Sign Key:**
- ① Existing Sign(s) & Post(s) to Remain
 - ② Remove Existing Sign(s) & Post(s)
 - ③ Install New Sign(s) & Post(s)
 - ④ Remove Existing Sign(s) & Post(s) & Install New Sign(s) & Post(s)
 - ⑤ Relocate Existing Sign(s) & Post(s) to New Location
- Sawcut and Widen Exist. Shoulder
 - Milled Shoulder Rumble Strip
 - Milled Centerline Rumble Strip

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



This work was prepared by me or under my supervision and construction of this project will be under my observation.

Norman S.H. Leong
 Expiration Date of License 4/24



STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

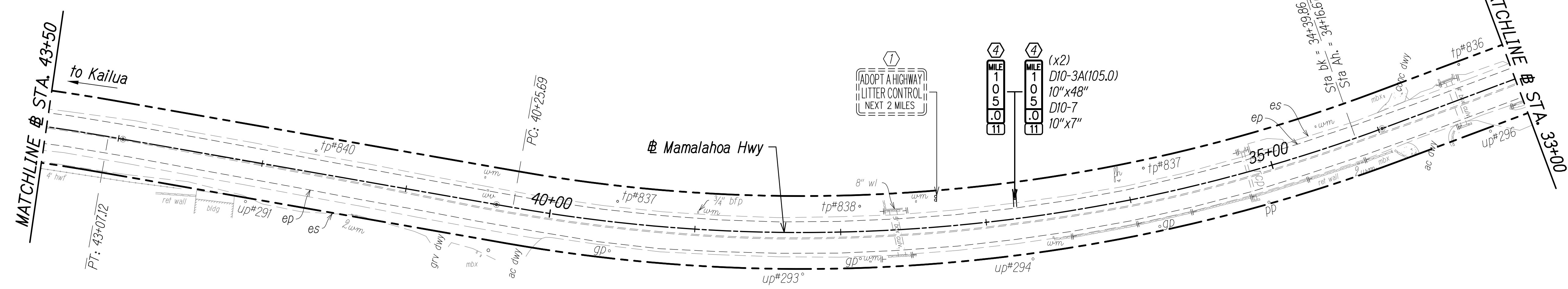
SIGNING AND STRIPING PLAN

MAMALAHOA HIGHWAY
 SAFETY IMPROVEMENTS
 Vicinity of Haleili Street and Bruner Road
 Federal-Aid Project No. HSIP-011-1(045)
 Scale: 1"=40' Date: September 2023

SHEET No. 1 OF 26 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-011-1(045)	2023	48	114

TRUE NORTH
SCALE : 1" = 40'

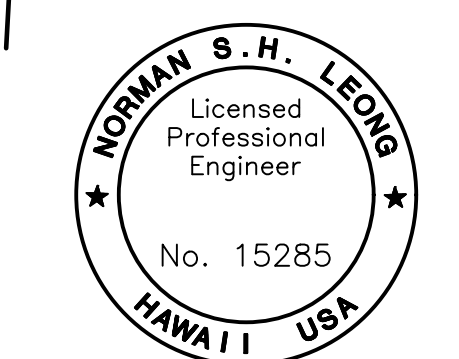
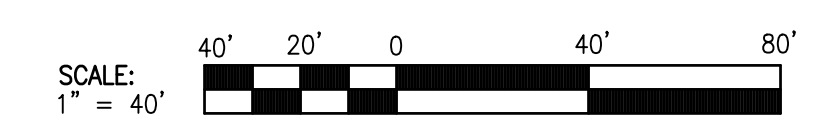
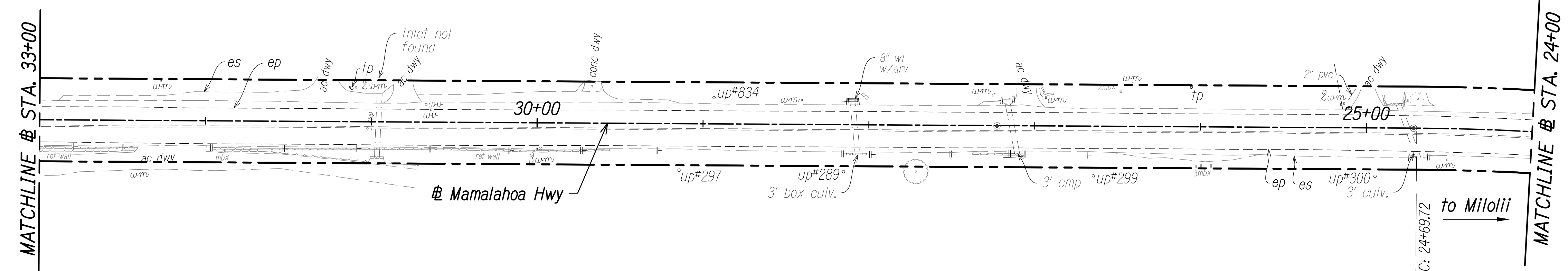


TRUE NORTH
SCALE : 1" = 40'

Sign Key:

- ① Existing Sign(s) & Post(s) to Remain
- ② Remove Existing Sign(s) & Post(s)
- ③ Install New Sign(s) & Post(s)
- ④ Remove Existing Sign(s) & Post(s) & Install New Sign(s) & Post(s)
- ⑤ Relocate Existing Sign(s) & Post(s) to New Location

- Sawcut and Widen Exist. Shoulder
- Milled Shoulder Rumble Strip
- Milled Centerline Rumble Strip



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Norman S.H. Leong
Expiration Date of License 4/24

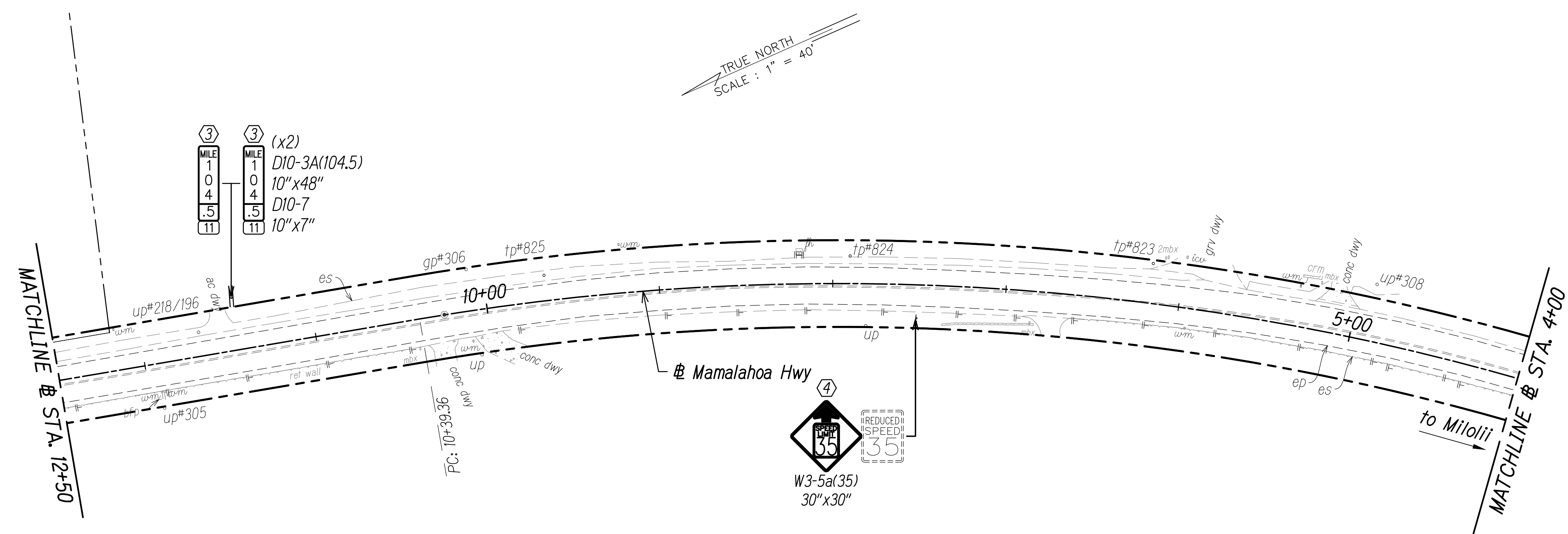
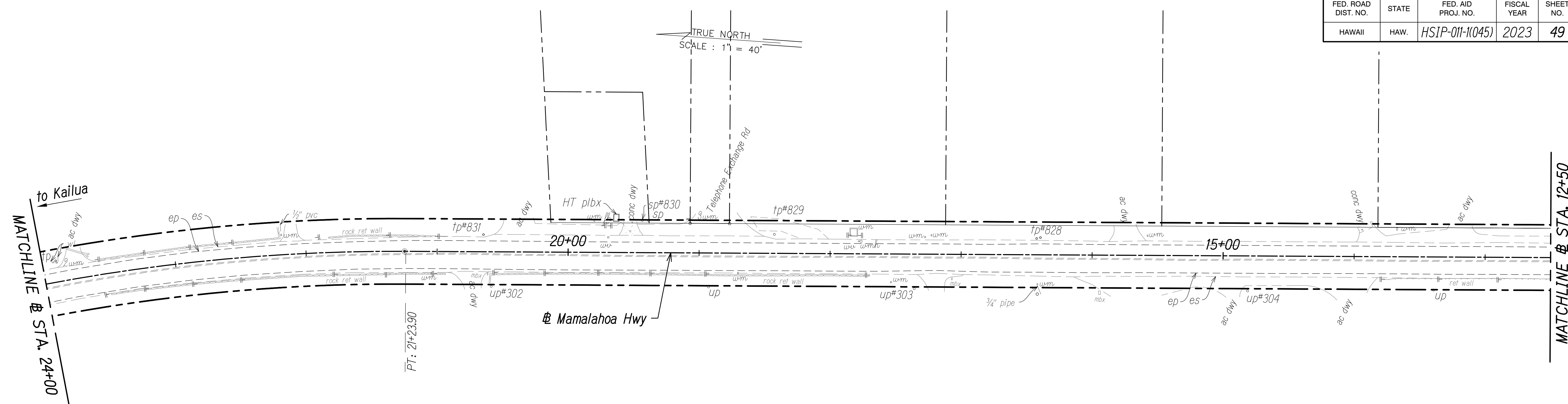
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING AND STRIPING PLAN

MAMALAHOA HIGHWAY
SAFETY IMPROVEMENTS
Vicinity of Haleili Street and Bruner Road
Federal-Aid Project No. HSIP-011-1(045)
Scale: 1"=40' Date: September 2023

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN No.	

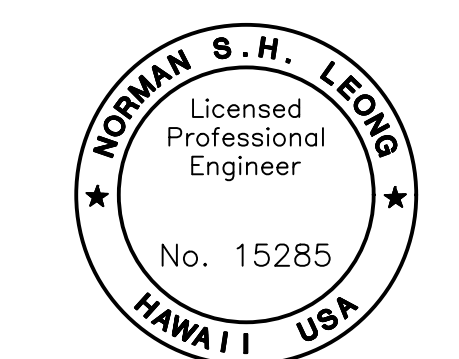
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-011-1(045)	2023	49	114



Sign Key:

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 - ② Remove Existing Sign(s) & Post(s)
 - ③ Install New Sign(s) & Post(s)
 - ④ Remove Existing Sign(s) & Post(s) & Install New Sign(s) & Post(s)
 - ⑤ Relocate Existing Sign(s) & Post(s) to New Location
- Sawcut and Widen Exist. Shoulder
 - Milled Shoulder Rumble Strip
 - Milled Centerline Rumble Strip

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN No.	



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Norman S.H. Leong
 Expiration Date of License 4/24

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING AND STRIPING PLAN

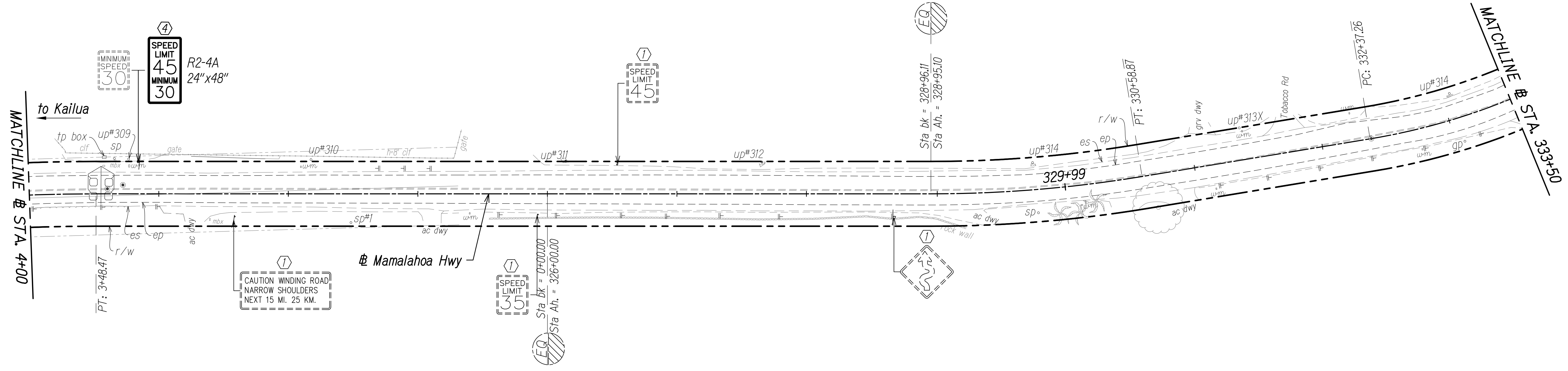
**MAMALAHOA HIGHWAY
SAFETY IMPROVEMENTS**
Vicinity of Haleili Street and Bruner Road
Federal-Aid Project No. HSIP-011-1(045)
Scale: 1"=40' Date: September 2023

SHEET No. 3 OF 26 SHEETS



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-011-1(045)	2023	50	114

TRUE NORTH
SCALE: 1" = 40'

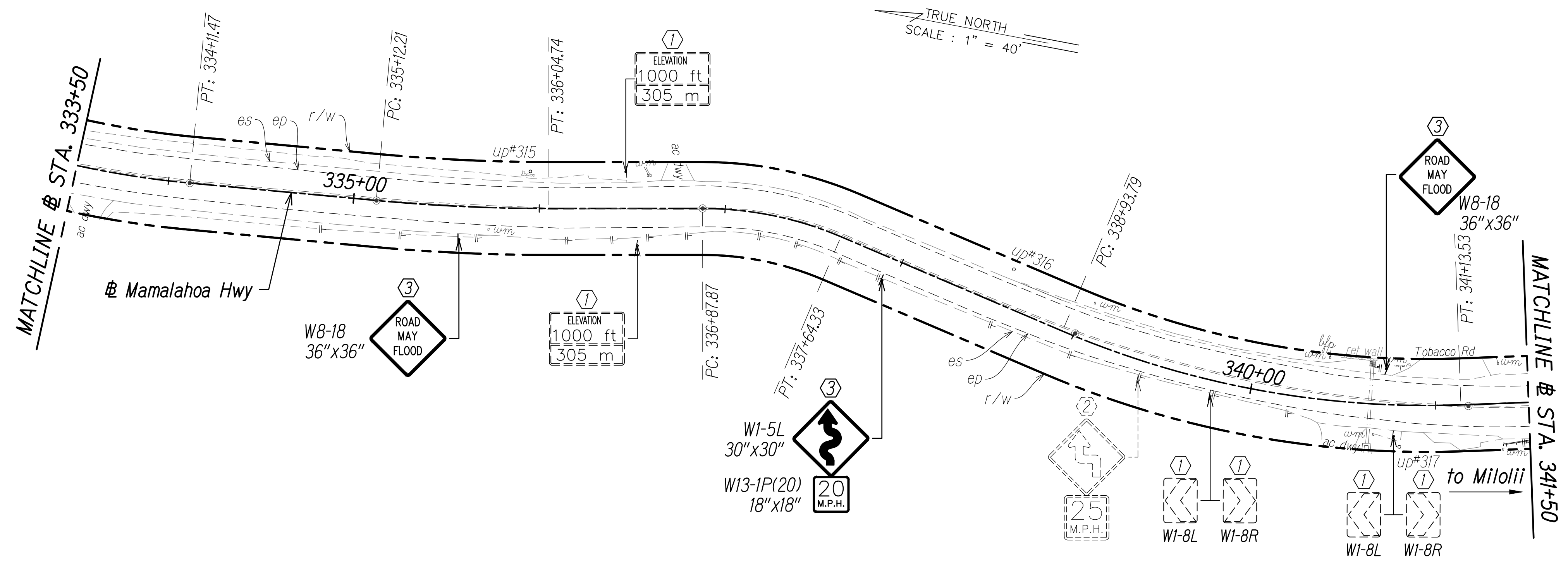


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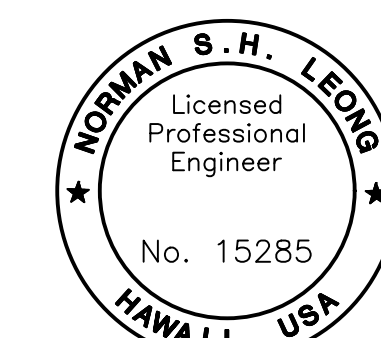
- ① Existing Sign(s) & Post(s) to Remain
- ② Remove Existing Sign(s) & Post(s)
- ③ Install New Sign(s) & Post(s)
- ④ Remove Existing Sign(s) & Post(s) & Install New Sign(s) & Post(s)
- ⑤ Relocate Existing Sign(s) & Post(s) to New Location

- Sawcut and Widen Exist. Shoulder
- Milled Shoulder Rumble Strip
- Milled Centerline Rumble Strip

TRUE NORTH
SCALE: 1" = 40'



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



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Expiration Date of License 4/24

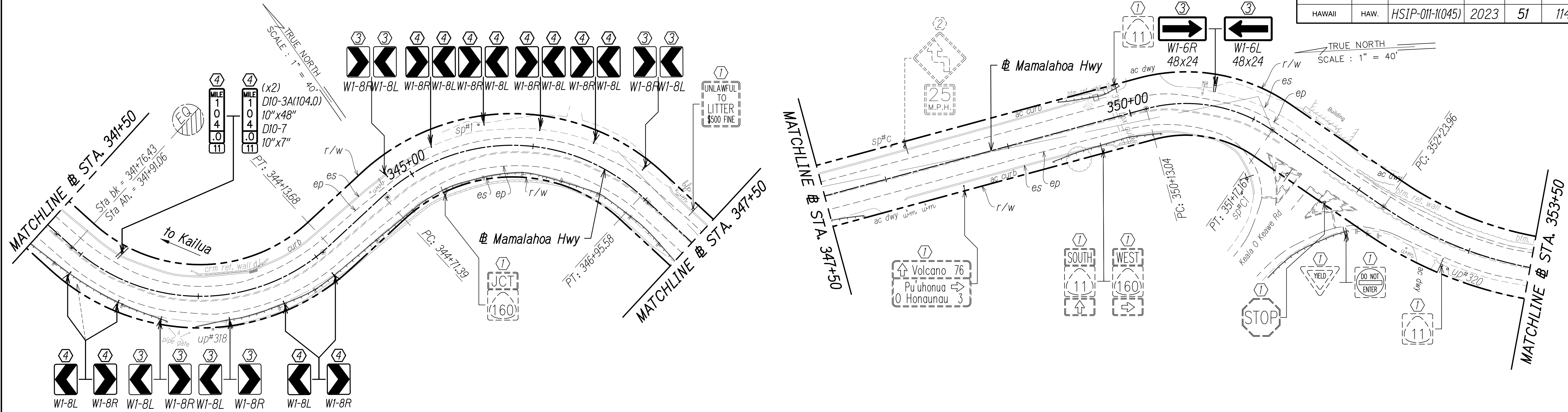


STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

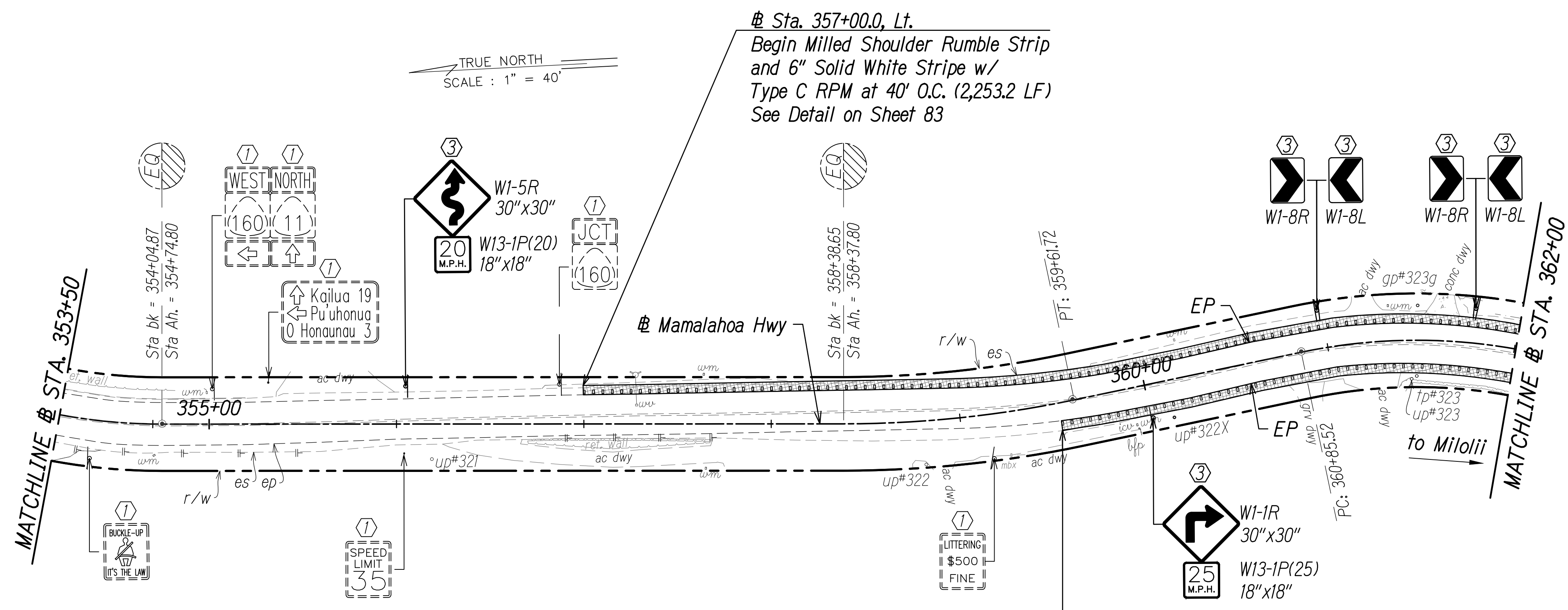
SIGNING AND STRIPING PLAN

MAMALAHOA HIGHWAY
SAFETY IMPROVEMENTS
Vicinity of Haleili Street and Bruner Road
Federal-Aid Project No. HSIP-011-1(045)
Scale: 1"=40' Date: September 2023

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-011-1(045)	2023	51	114

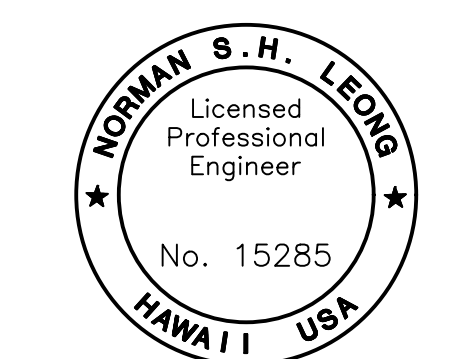


- Sign Key:**
- ① Existing Sign(s) & Post(s) to Remain
 - ② Remove Existing Sign(s) & Post(s)
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 - ④ Remove Existing Sign(s) & Post(s) & Install New Sign(s) & Post(s)
 - ⑤ Relocate Existing Sign(s) & Post(s) to New Location
- Sawcut and Widen Exist. Shoulder
 - Milled Shoulder Rumble Strip
 - Milled Centerline Rumble Strip



① Sta. 357+00.0, Lt.
 Begin Milled Shoulder Rumble Strip and 6" Solid White Stripe w/ Type C RPM at 40' O.C. (2,253.2 LF)
 See Detail on Sheet 83

① Sta. 359+53.0, Rt.
 Begin Milled Shoulder Rumble Strip and 6" Solid White Stripe w/ Type C RPM at 40' O.C. (2,318.0 LF)
 See Detail on Sheet 83

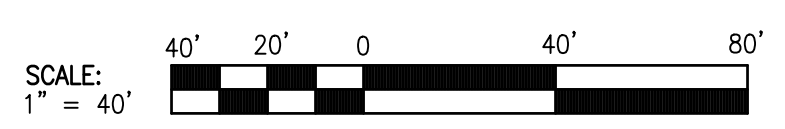


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STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

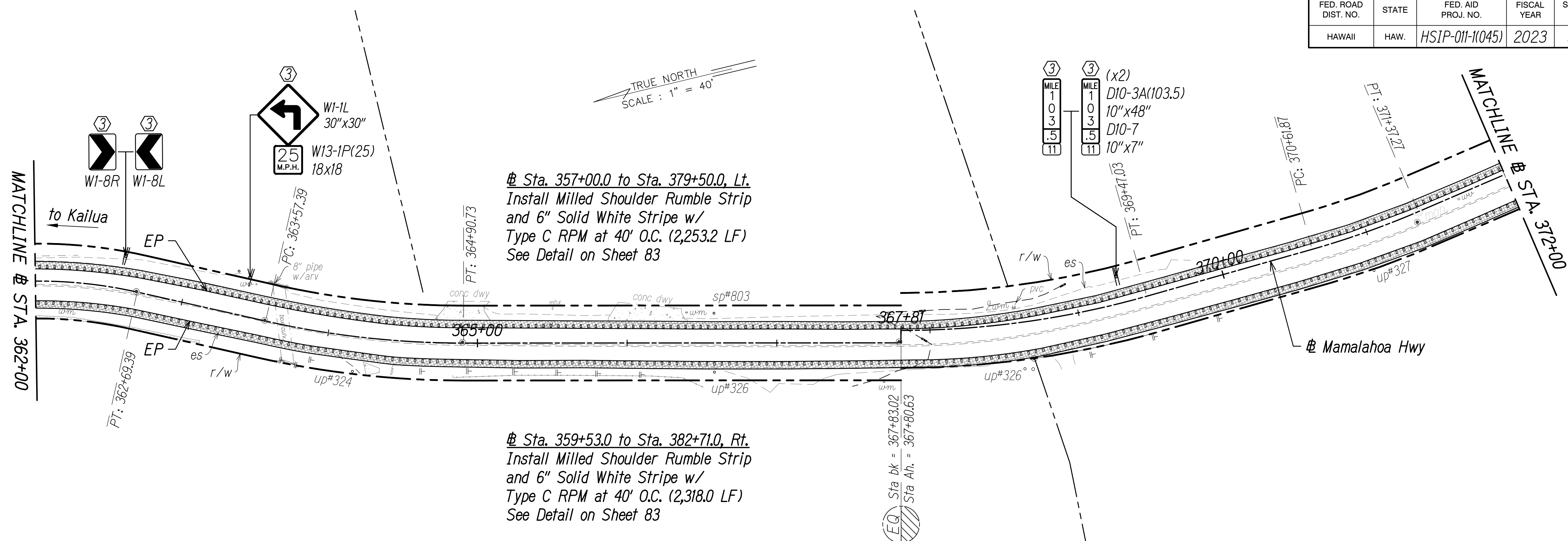
SIGNING AND STRIPING PLAN

MAMALAHOA HIGHWAY
 SAFETY IMPROVEMENTS
 Vicinity of Haleili Street and Bruner Road
 Federal-Aid Project No. HSIP-011-1(045)
 Scale: 1"=40' Date: September 2023



SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN No.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-011-1(045)	2023	52	114



Sta. 357+00.0 to Sta. 379+50.0, Lt.
Install Milled Shoulder Rumble Strip
and 6" Solid White Stripe w/
Type C RPM at 40' O.C. (2,253.2 LF)
See Detail on Sheet 83

Sta. 359+53.0 to Sta. 382+71.0, Rt.
Install Milled Shoulder Rumble Strip
and 6" Solid White Stripe w/
Type C RPM at 40' O.C. (2,318.0 LF)
See Detail on Sheet 83

Sta. 379+50.0, Lt.
End Milled Shoulder Rumble Strip
and 6" Solid White Stripe w/
Type C RPM at 40' O.C. (2,253.2 LF)
See Detail on Sheet 83

Sta. 357+00.0 to Sta. 379+50.0, Lt.
Install Milled Shoulder Rumble Strip
and 6" Solid White Stripe w/
Type C RPM at 40' O.C. (2,253.2 LF)
See Detail on Sheet 83

Sta. 359+53.0 to Sta. 382+71.0, Rt.
Install Milled Shoulder Rumble Strip
and 6" Solid White Stripe w/
Type C RPM at 40' O.C. (2,318.0 LF)
See Detail on Sheet 83

Sign Key:

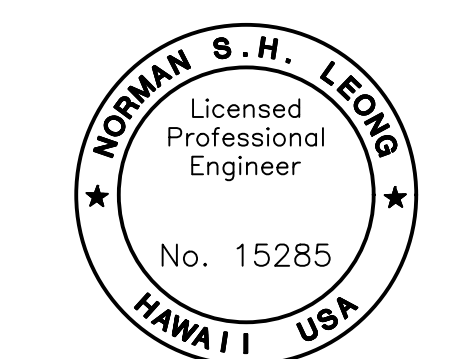
- ① Existing Sign(s) & Post(s) to Remain
- ② Remove Existing Sign(s) & Post(s)
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- ④ Remove Existing Sign(s) & Post(s) & Install New Sign(s) & Post(s)
- ⑤ Relocate Existing Sign(s) & Post(s) to New Location

- Sawcut and Widen Exist. Shoulder
- Milled Shoulder Rumble Strip
- Milled Centerline Rumble Strip

Notes:

Baseline and property lines have been placed on a best fit basis using available Subdivision Maps, Recorded Documents, TMK Maps and existing boundary pipes found on the ground. Pavement not shown within the State Right-of-Way does not imply that pavement is located outside the Right-of-Way.

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN No.	



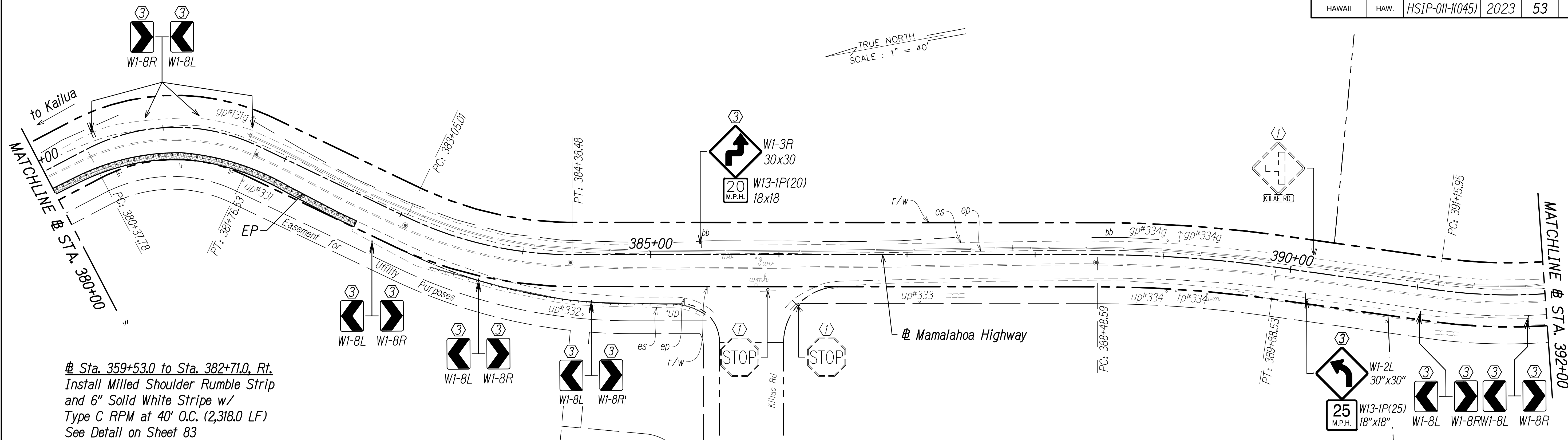
This work was prepared by me or under my supervision and construction of this project will be under my observation.
Norman S.H. Leong
Expiration Date of License: 4/24

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

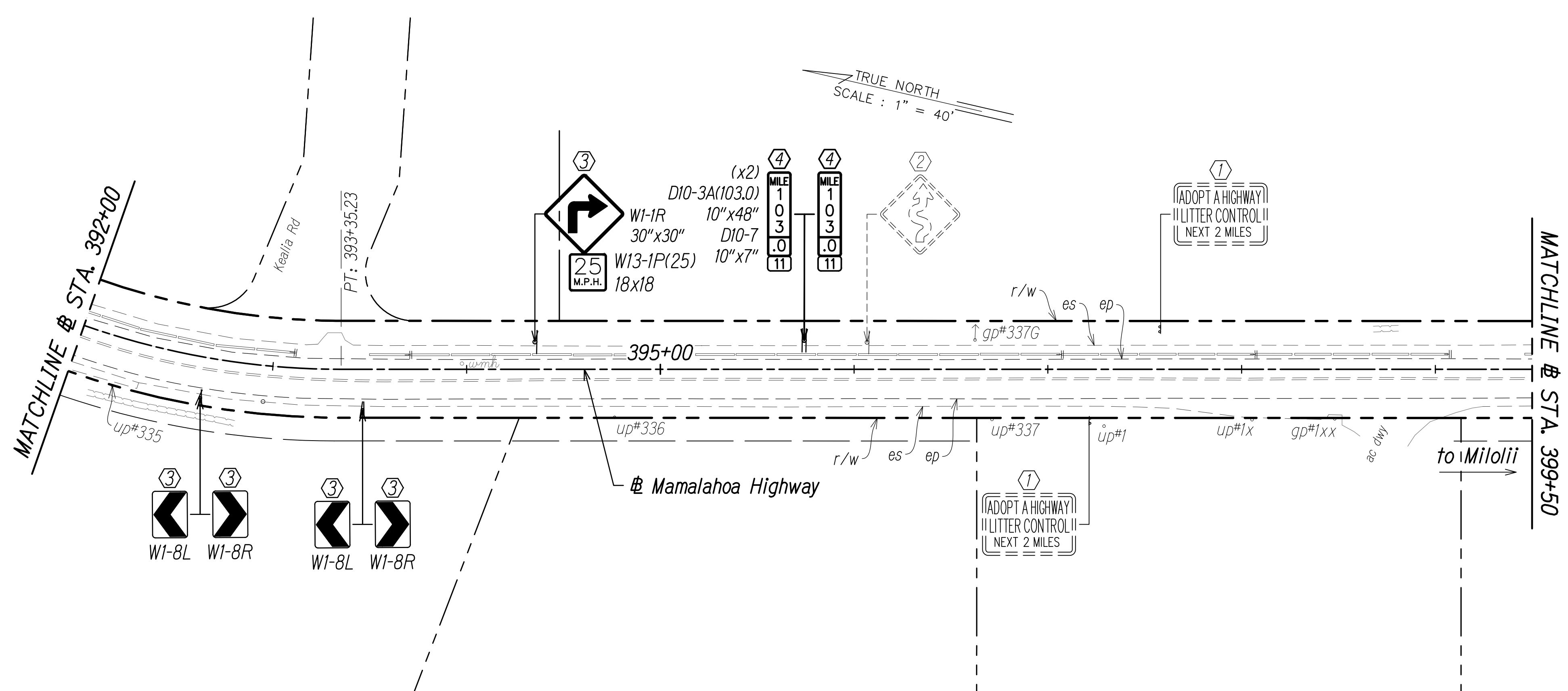
SIGNING AND STRIPING PLAN

MAMALAHOA HIGHWAY
SAFETY IMPROVEMENTS
Vicinity of Haleili Street and Bruner Road
Federal-Aid Project No. HSIP-011-1(045)
Scale: 1"=40' Date: September 2023

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-011-1(045)	2023	53	114

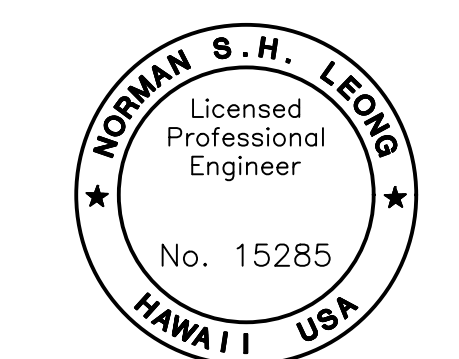


At Sta. 359+53.0 to Sta. 382+71.0, Rt. Install Milled Shoulder Rumble Strip and 6" Solid White Stripe w/ Type C RPM at 40' O.C. (2,318.0 LF) See Detail on Sheet 83

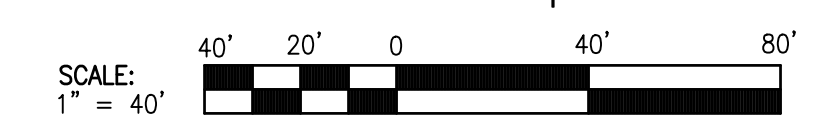


- Sign Key:**
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 - ② Remove Existing Sign(s) & Post(s)
 - ③ Install New Sign(s) & Post(s)
 - ④ Remove Existing Sign(s) & Post(s) & Install New Sign(s) & Post(s)
 - ⑤ Relocate Existing Sign(s) & Post(s) to New Location
- Sawcut and Widen Exist. Shoulder
 - Milled Shoulder Rumble Strip
 - Milled Centerline Rumble Strip

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



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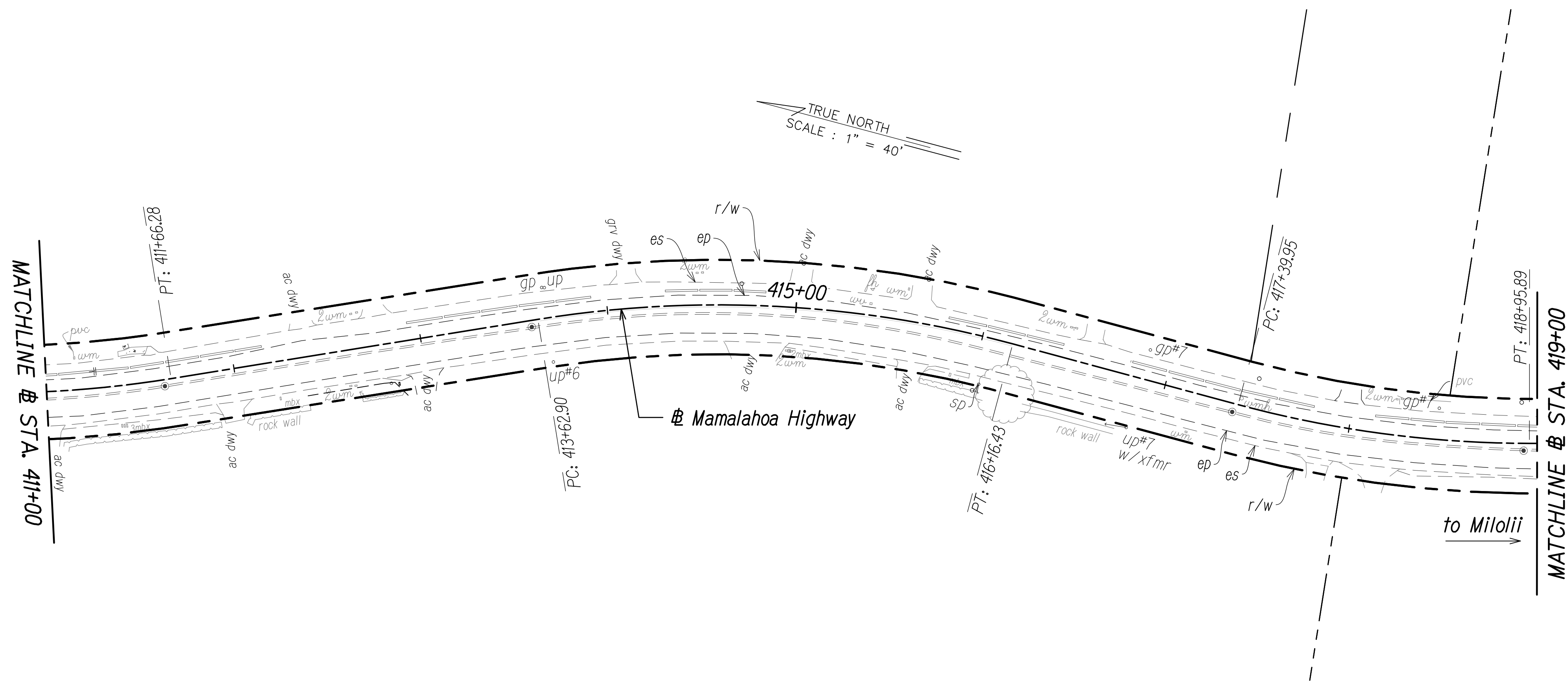
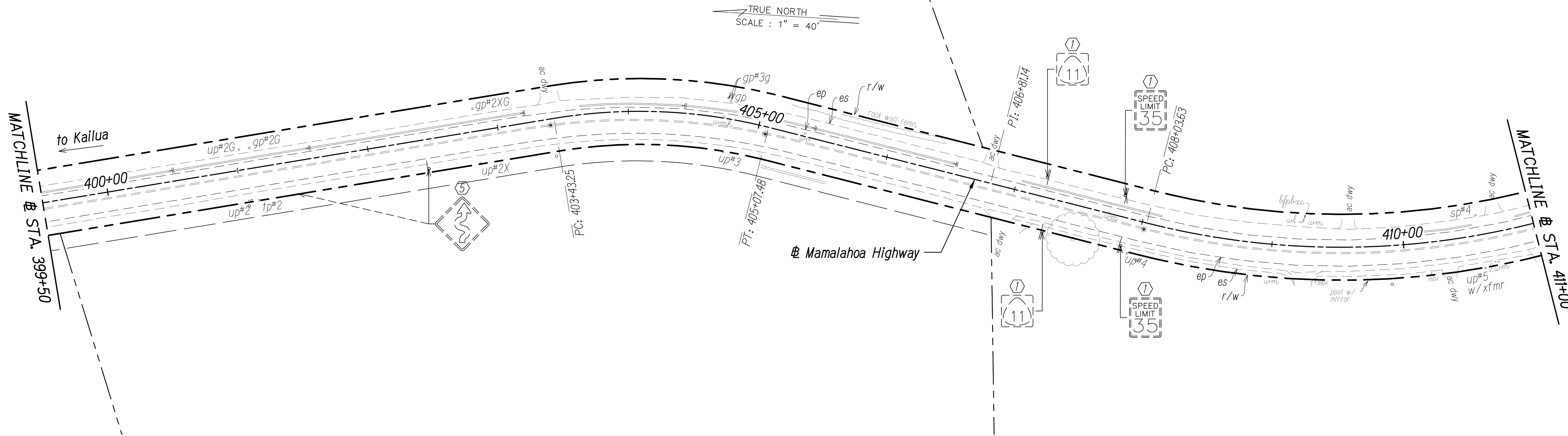


STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

SIGNING AND STRIPING PLAN

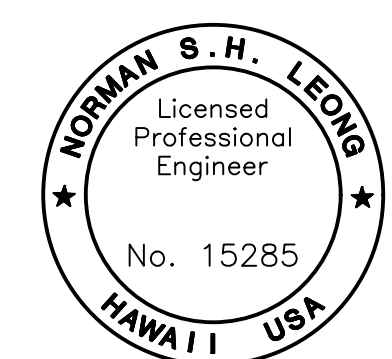
MAMALAHOA HIGHWAY
 SAFETY IMPROVEMENTS
 Vicinity of Haleili Street and Bruner Road
 Federal-Aid Project No. HSIP-011-1(045)
 Date: September 2023

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-011-1(045)	2023	54	114



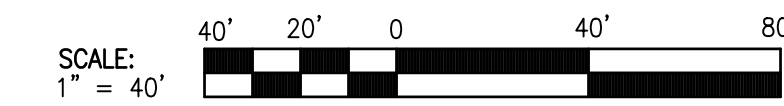
- Sign Key:**
- ① Existing Sign(s) & Post(s) to Remain
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- Sawcut and Widen Exist. Shoulder
 - Milled Shoulder Rumble Strip
 - Milled Centerline Rumble Strip

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



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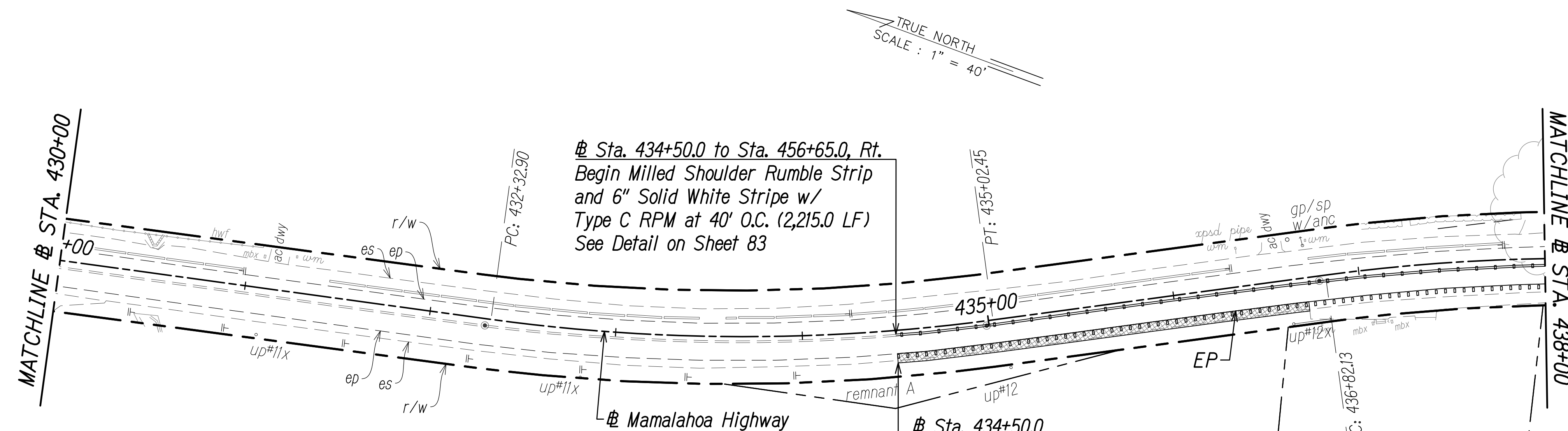
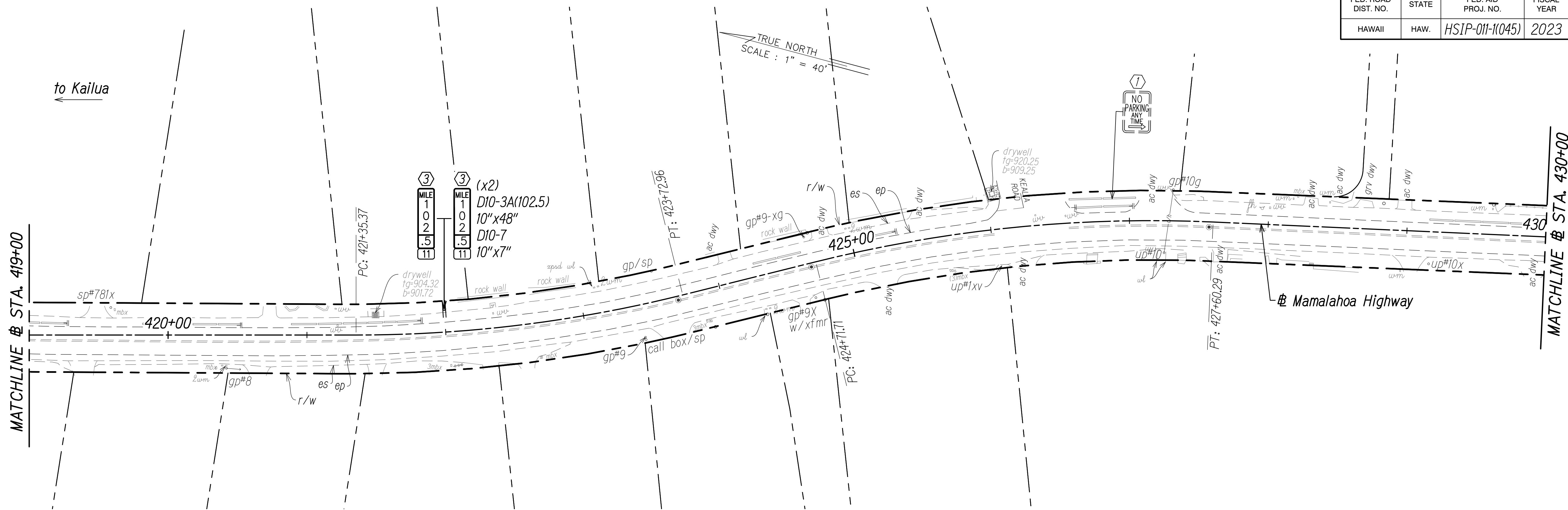


STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

SIGNING AND STRIPING PLAN

MAMALAHOA HIGHWAY
 SAFETY IMPROVEMENTS
 Vicinity of Haleili Street and Bruner Road
 Federal-Aid Project No. HSIP-011-1(045)
 Date: September 2023

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-011-1(045)	2023	55	114

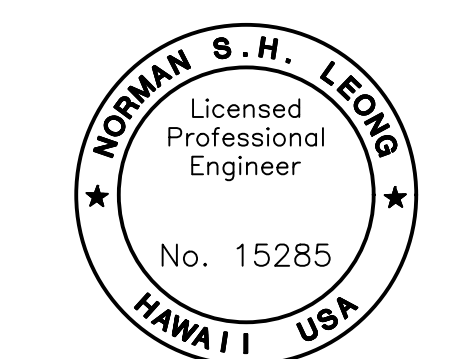


- Sign Key:**
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 - ⑤ Relocate Existing Sign(s) & Post(s) to New Location
- Sawcut and Widen Exist. Shoulder
 - Milled Shoulder Rumble Strip
 - Milled Centerline Rumble Strip

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

Sta. 434+50.0 to Sta. 456+65.0, Rt.
Begin Milled Shoulder Rumble Strip
and 6" Solid White Stripe w/
Type C RPM at 40' O.C. (2,215.0 LF)
See Detail on Sheet 83

Sta. 434+50.0
Begin Milled Centerline Rumble Strip
Double Solid 4" Yellow Stripe w/ Type
D RPM at 20' O.C. (585.0 LF)
See Detail on Sheet 84



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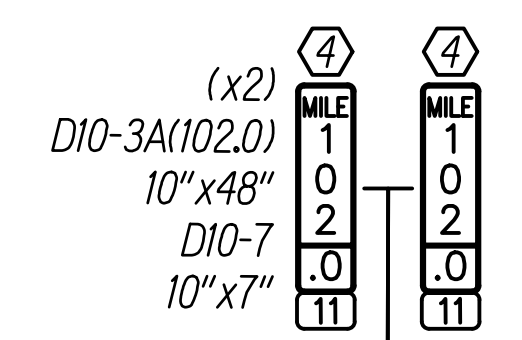
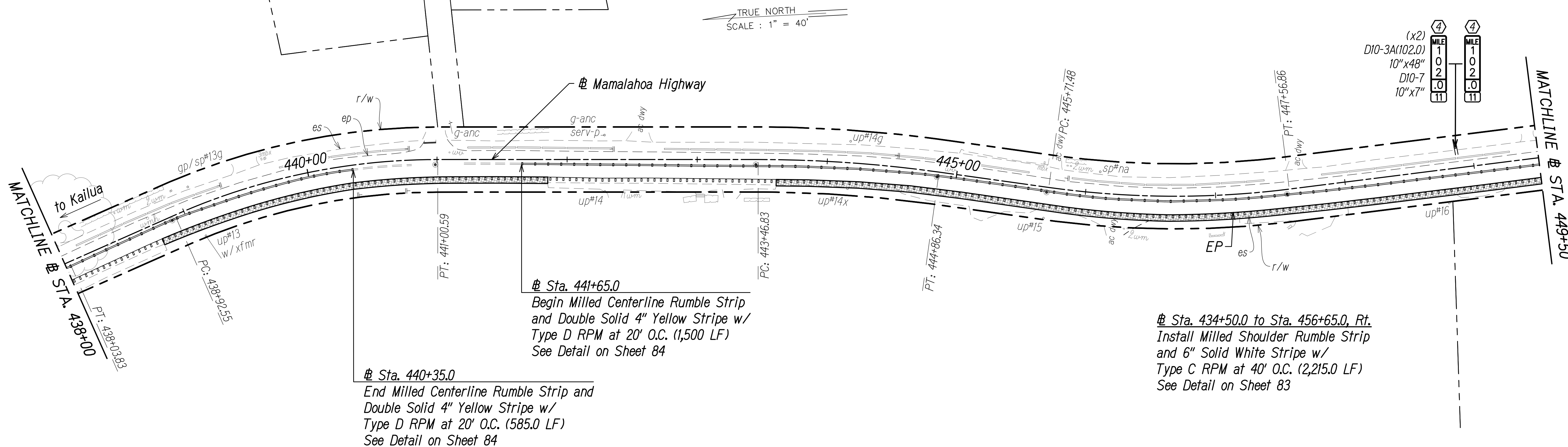
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING AND STRIPING PLAN

MAMALAHOA HIGHWAY
SAFETY IMPROVEMENTS
Vicinity of Haleili Street and Bruner Road
Federal-Aid Project No. HSIP-011-1(045)
Date: September 2023



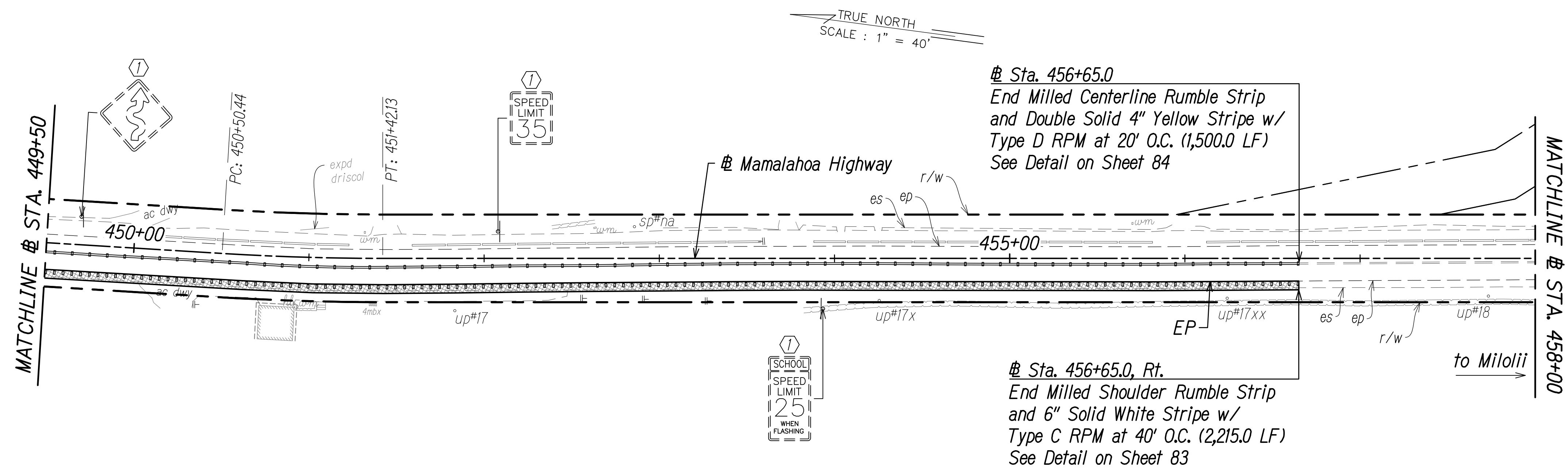
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-011-1(045)	2023	56	114



Sta. 440+35.0
 End Milled Centerline Rumble Strip and Double Solid 4" Yellow Stripe w/ Type D RPM at 20' O.C. (585.0 LF)
 See Detail on Sheet 84

Sta. 441+65.0
 Begin Milled Centerline Rumble Strip and Double Solid 4" Yellow Stripe w/ Type D RPM at 20' O.C. (1,500 LF)
 See Detail on Sheet 84

Sta. 434+50.0 to Sta. 456+65.0, Rt.
 Install Milled Shoulder Rumble Strip and 6" Solid White Stripe w/ Type C RPM at 40' O.C. (2,215.0 LF)
 See Detail on Sheet 83

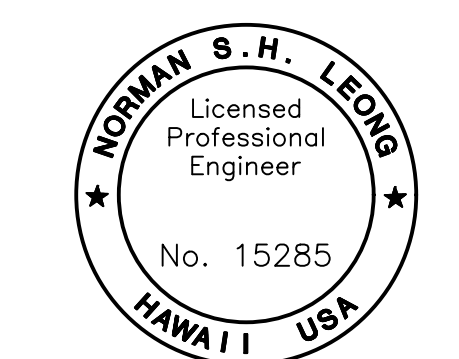


Sta. 456+65.0
 End Milled Centerline Rumble Strip and Double Solid 4" Yellow Stripe w/ Type D RPM at 20' O.C. (1,500.0 LF)
 See Detail on Sheet 84

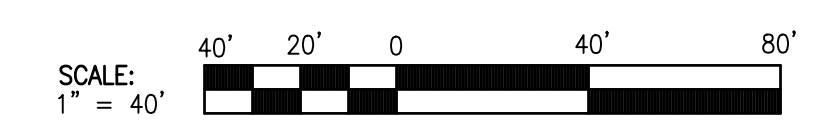
Sta. 456+65.0, Rt.
 End Milled Shoulder Rumble Strip and 6" Solid White Stripe w/ Type C RPM at 40' O.C. (2,215.0 LF)
 See Detail on Sheet 83

- Sign Key:**
- ① Existing Sign(s) & Post(s) to Remain
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- Sawcut and Widen Exist. Shoulder
 - Milled Shoulder Rumble Strip
 - Milled Centerline Rumble Strip

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
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ORIGINAL PLAN No.	



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 Expiration Date of License 4/24

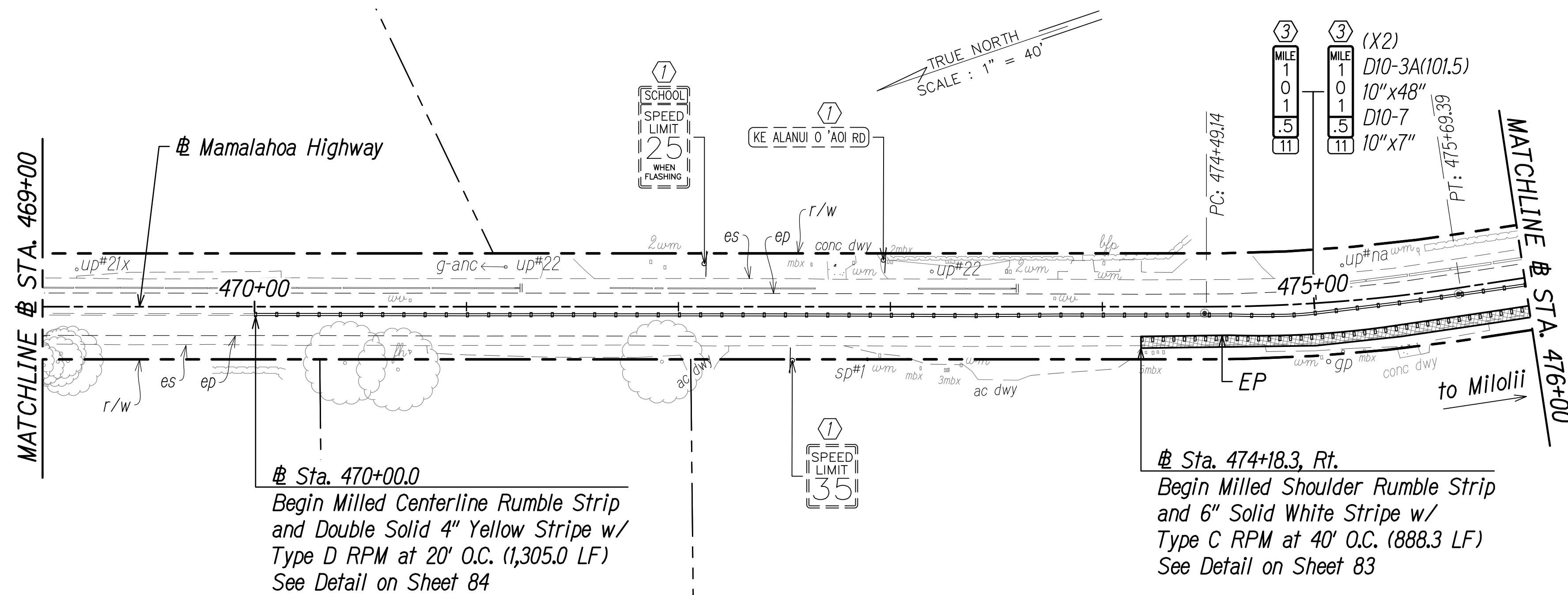
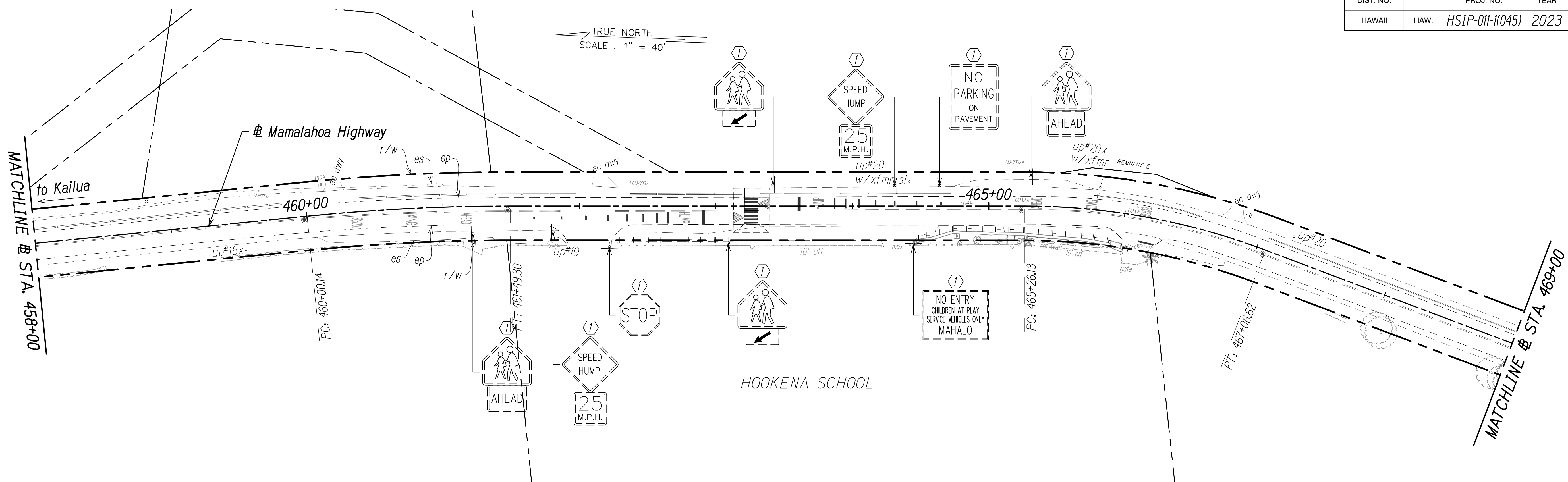


STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

SIGNING AND STRIPING PLAN

MAMALAHOA HIGHWAY
 SAFETY IMPROVEMENTS
 Vicinity of Haleili Street and Bruner Road
 Federal-Aid Project No. HSIP-011-1(045)
 Date: September 2023

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-011-1(045)	2023	57	114

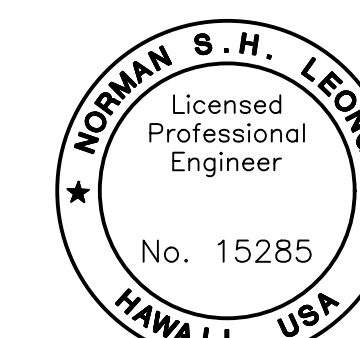


Sign Key:

- ① Existing Sign(s) & Post(s) to Remain
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- ⑤ Relocate Existing Sign(s) & Post(s) to New Location

- Sawcut and Widen Exist. Shoulder
- Milled Shoulder Rumble Strip
- Milled Centerline Rumble Strip

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

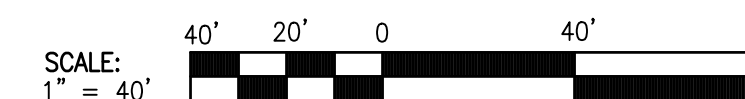


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Norman S.H. Leong
 Expiration Date of License 4/24

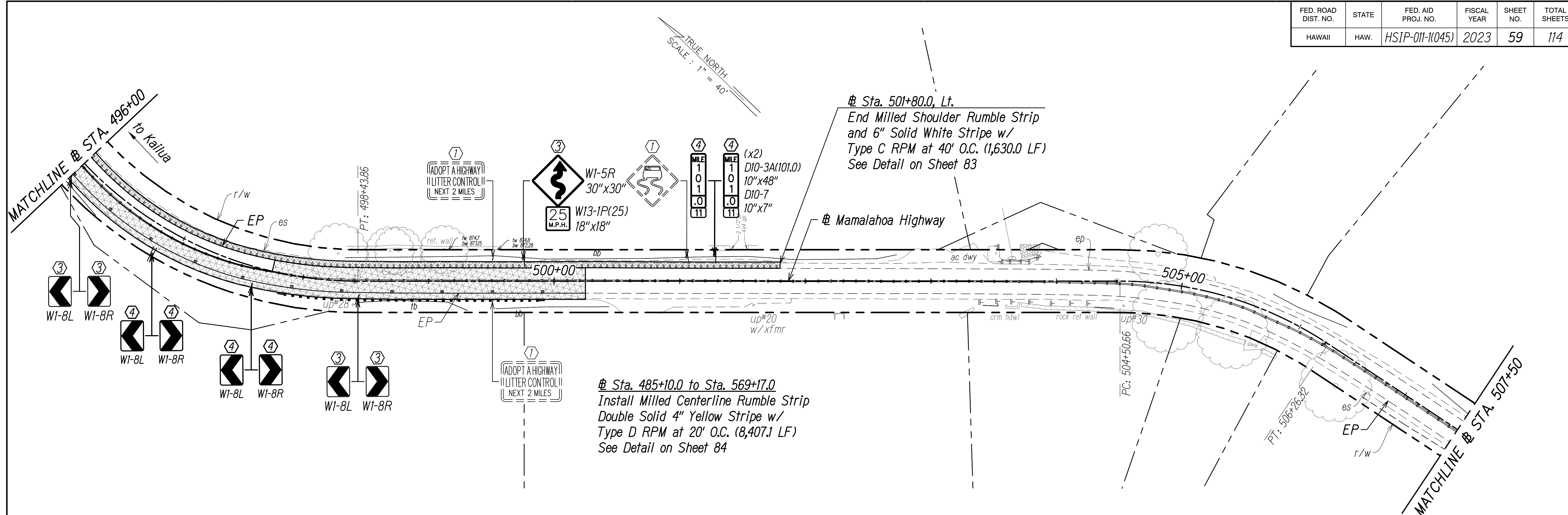
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

SIGNING AND STRIPING PLAN

MAMALAHOA HIGHWAY
 SAFETY IMPROVEMENTS
 Vicinity of Haleili Street and Bruner Road
 Federal-Aid Project No. HSIP-011-1(045)
 Date: September 2023

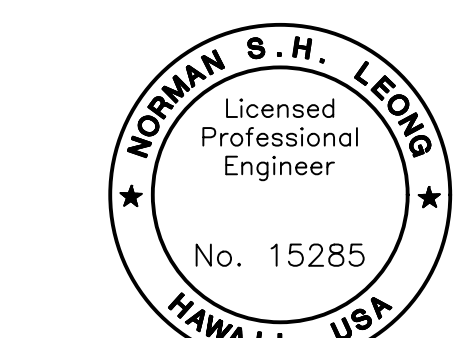


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-011-1(045)	2023	59	114

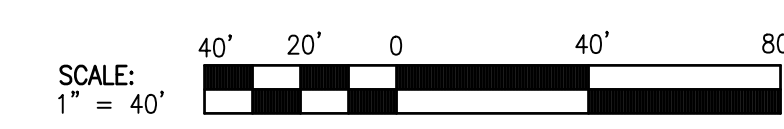


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 - Milled Shoulder Rumble Strip
 - Milled Centerline Rumble Strip

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



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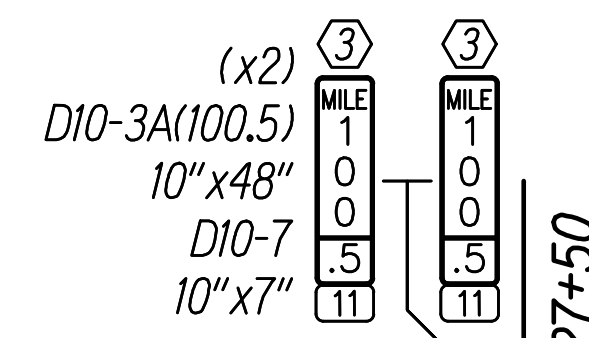
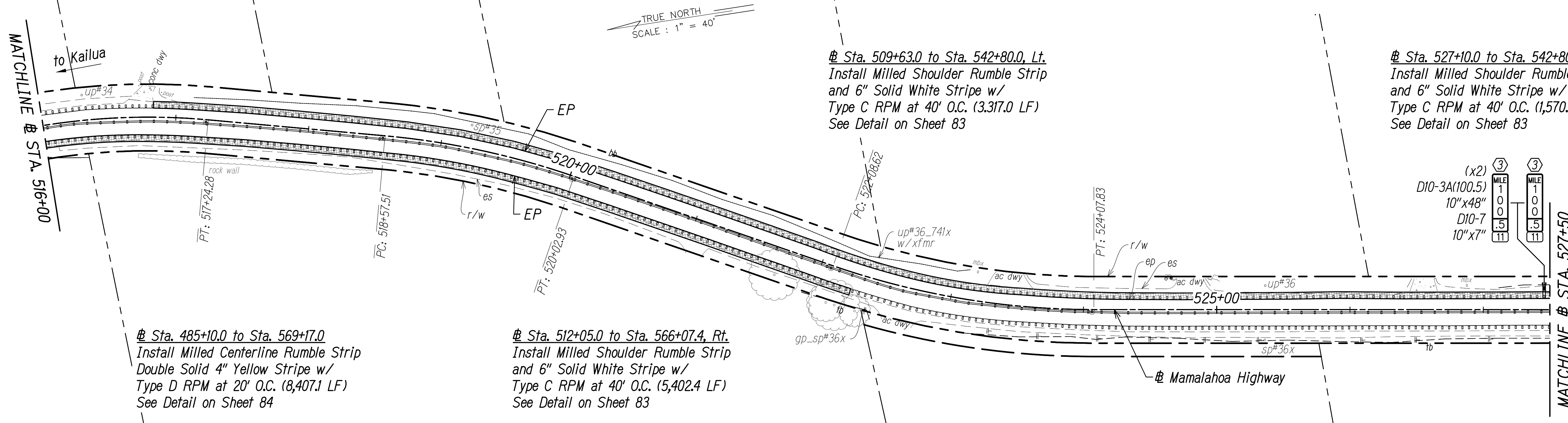


STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

SIGNING AND STRIPING PLAN

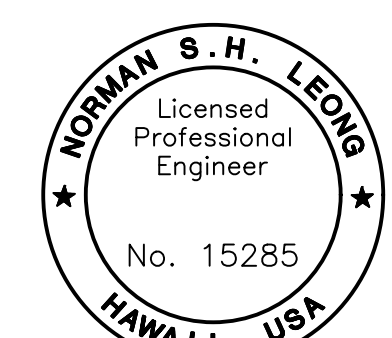
MAMALAHOA HIGHWAY
 SAFETY IMPROVEMENTS
 Vicinity of Haleili Street and Bruner Road
 Federal-Aid Project No. HSIP-011-1(045)
 Scale: 1"=40' Date: September 2023

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-011-1(045)	2023	60	114

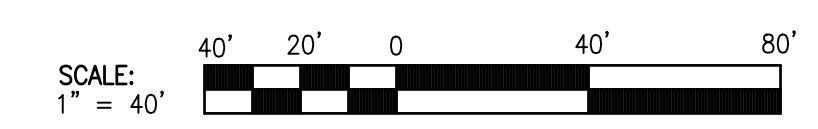


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 - ⑤ Relocate Existing Sign(s) & Post(s) to New Location
- Sawcut and Widen Exist. Shoulder
 - Milled Shoulder Rumble Strip
 - Milled Centerline Rumble Strip

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN No.	



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STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

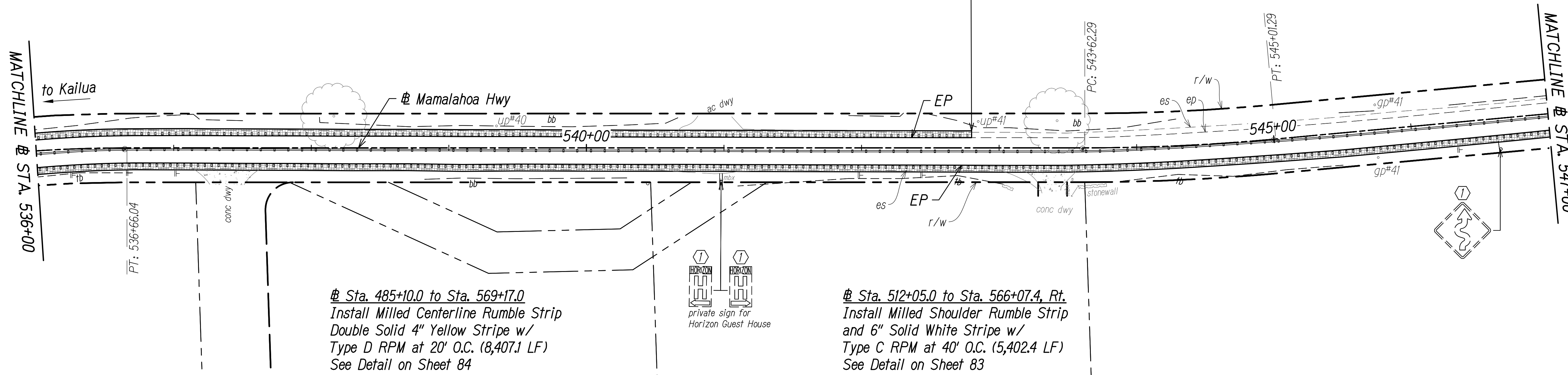
SIGNING AND STRIPING PLAN

MAMALAHOA HIGHWAY
 SAFETY IMPROVEMENTS
 Vicinity of Haleili Street and Bruner Road
 Federal-Aid Project No. HSIP-011-1(045)
 Scale: 1"=40' Date: September 2023

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-011-1(045)	2023	61	114

TRUE NORTH
SCALE : 1" = 40'

Sta. 542+80.0, Lt.
Install Milled Shoulder Rumble Strip and 6" Solid White Stripe w/ Type C RPM at 40' O.C. (3,317.0 LF)
See Detail on Sheet 83

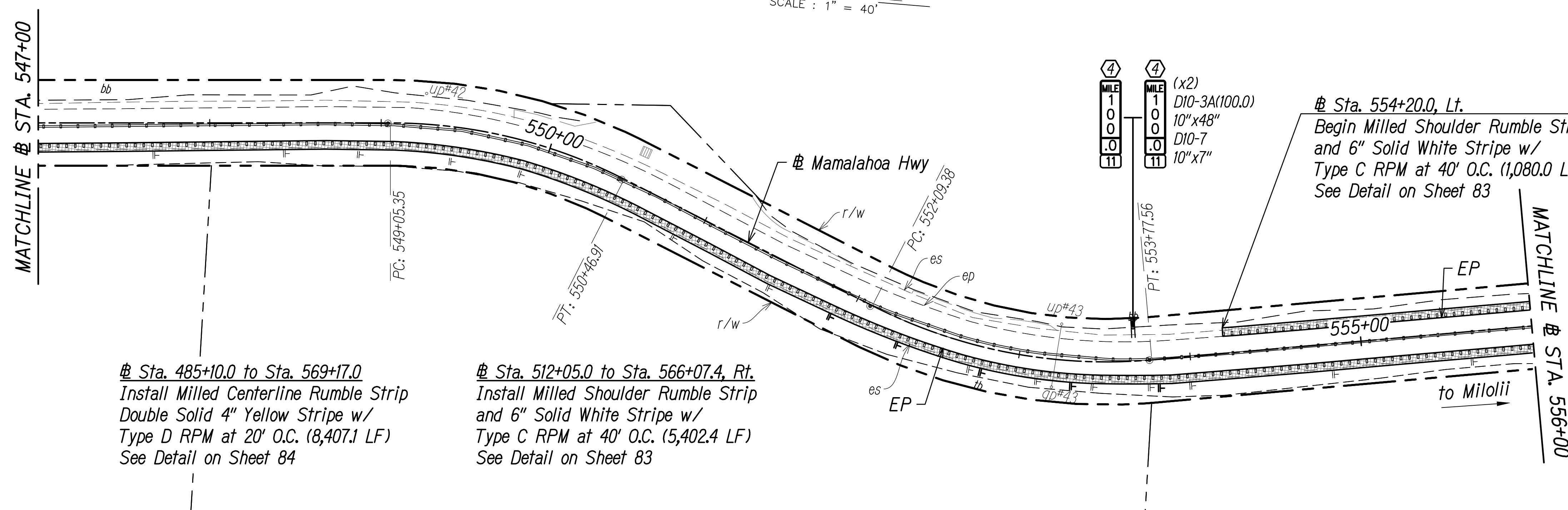


Sta. 485+10.0 to Sta. 569+17.0
Install Milled Centerline Rumble Strip Double Solid 4" Yellow Stripe w/ Type D RPM at 20' O.C. (8,407.1 LF)
See Detail on Sheet 84

Sta. 512+05.0 to Sta. 566+07.4, Rt.
Install Milled Shoulder Rumble Strip and 6" Solid White Stripe w/ Type C RPM at 40' O.C. (5,402.4 LF)
See Detail on Sheet 83

TRUE NORTH
SCALE : 1" = 40'

Sta. 554+20.0, Lt.
Begin Milled Shoulder Rumble Strip and 6" Solid White Stripe w/ Type C RPM at 40' O.C. (1,080.0 LF)
See Detail on Sheet 83



Sta. 485+10.0 to Sta. 569+17.0
Install Milled Centerline Rumble Strip Double Solid 4" Yellow Stripe w/ Type D RPM at 20' O.C. (8,407.1 LF)
See Detail on Sheet 84

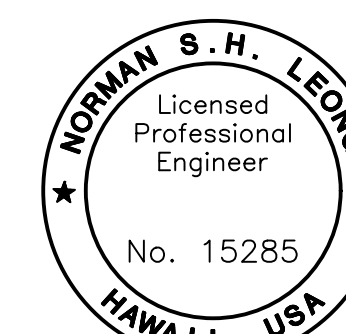
Sta. 512+05.0 to Sta. 566+07.4, Rt.
Install Milled Shoulder Rumble Strip and 6" Solid White Stripe w/ Type C RPM at 40' O.C. (5,402.4 LF)
See Detail on Sheet 83

Sign Key:

- ① Existing Sign(s) & Post(s) to Remain
- ② Remove Existing Sign(s) & Post(s)
- ③ Install New Sign(s) & Post(s)
- ④ Remove Existing Sign(s) & Post(s) & Install New Sign(s) & Post(s)
- ⑤ Relocate Existing Sign(s) & Post(s) to New Location

- Sawcut and Widen Exist. Shoulder
- Milled Shoulder Rumble Strip
- Milled Centerline Rumble Strip

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN No.	



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Norman S. H. Leong
Expiration Date of License 4/24



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING AND STRIPING PLAN

MAMALAHOA HIGHWAY
SAFETY IMPROVEMENTS
Vicinity of Haleili Street and Bruner Road
Federal-Aid Project No. HSIP-011-1(045)
Scale: 1"=40' Date: September 2023

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-011-1(045)	2023	62	114

Sta. 565+00.0 to Sta. 579+50.0, Lt.
6" Solid White Stripe w/
Type C RPM at 40' O.C. (1,450.0 LF)

Sta. 565+00.0, Lt.
Install Milled Shoulder Rumble Strip
and 6" Solid White Stripe w/
Type C RPM at 40' O.C. (1,080.0 LF)
See Detail on Sheet 83

Sta. 485+10.0 to Sta. 569+17.0
Install Milled Centerline Rumble Strip
Double Solid 4" Yellow Stripe w/
Type D RPM at 20' O.C. (8,407.1 LF)
See Detail on Sheet 84

Sta. 512+05.0 to Sta. 566+07.4, Rt.
Install Milled Shoulder Rumble Strip
and 6" Solid White Stripe w/
Type C RPM at 40' O.C. (5,402.4 LF)
See Detail on Sheet 83

Sta. 569+17.0
Install Milled Centerline Rumble Strip
Double Solid 4" Yellow Stripe w/
Type D RPM at 20' O.C. (6,476.6 LF)
See Detail on Sheet 84

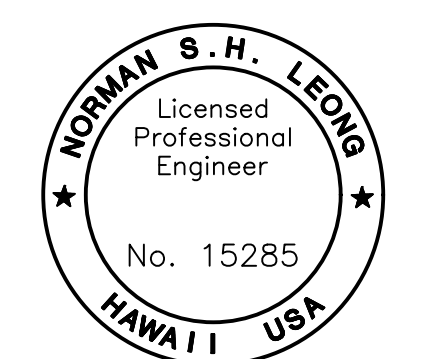
Sta. 565+00.0 to Sta. 579+50.0, Lt.
6" Solid White Stripe w/
Type C RPM at 40' O.C. (1,450.0 LF)

Sta. 570+60 to Sta. 626+75.0, Rt.
Install Milled Centerline Rumble Strip
Double Solid 4" Yellow Stripe w/
Type D RPM at 20' O.C. (6,477 LF)
See Detail on Sheet 84

Sta. 570+60.0 to Sta. 626+75.0, Rt.
Install Milled Shoulder Rumble Strip
and 6" Solid White Stripe w/
Type C RPM at 40' O.C. (5,615.0 LF)
See Detail on Sheet 83

Sta. 570+19.2 to Sta. 570+60.0, Rt.
6" Solid White Stripe w/
Type C RPM at 40' O.C. (40.8 LF)

- Sign Key:**
- ① Existing Sign(s) & Post(s) to Remain
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 - ⑤ Relocate Existing Sign(s) & Post(s) to New Location
- Sawcut and Widen Exist. Shoulder
 - Milled Shoulder Rumble Strip
 - Milled Centerline Rumble Strip

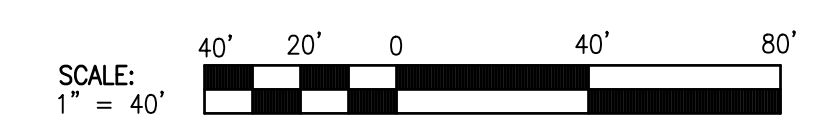


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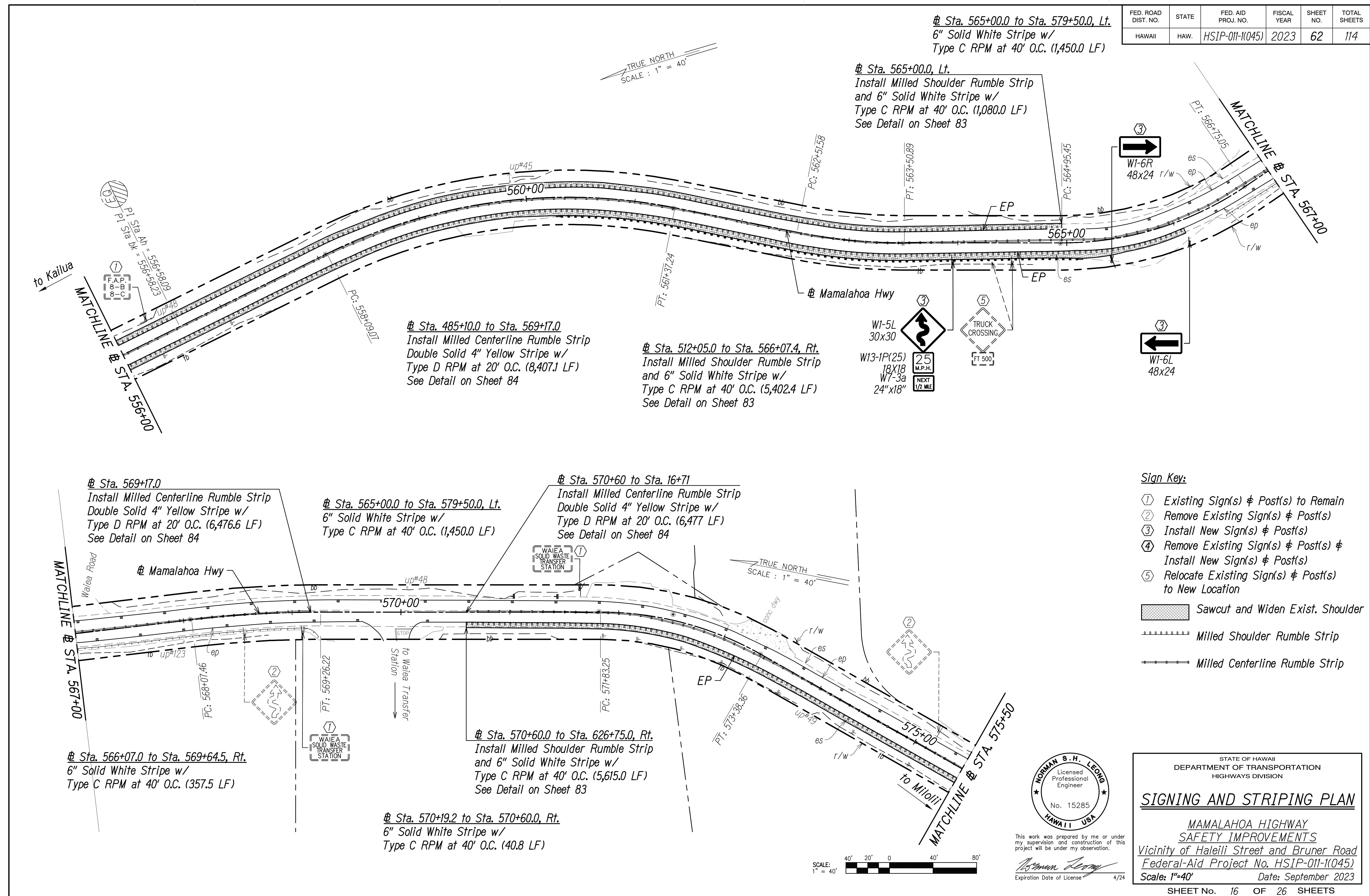
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING AND STRIPING PLAN

MAMALAHOA HIGHWAY
SAFETY IMPROVEMENTS
Vicinity of Haleili Street and Bruner Road
Federal-Aid Project No. HSIP-011-1(045)
Scale: 1"=40' Date: September 2023



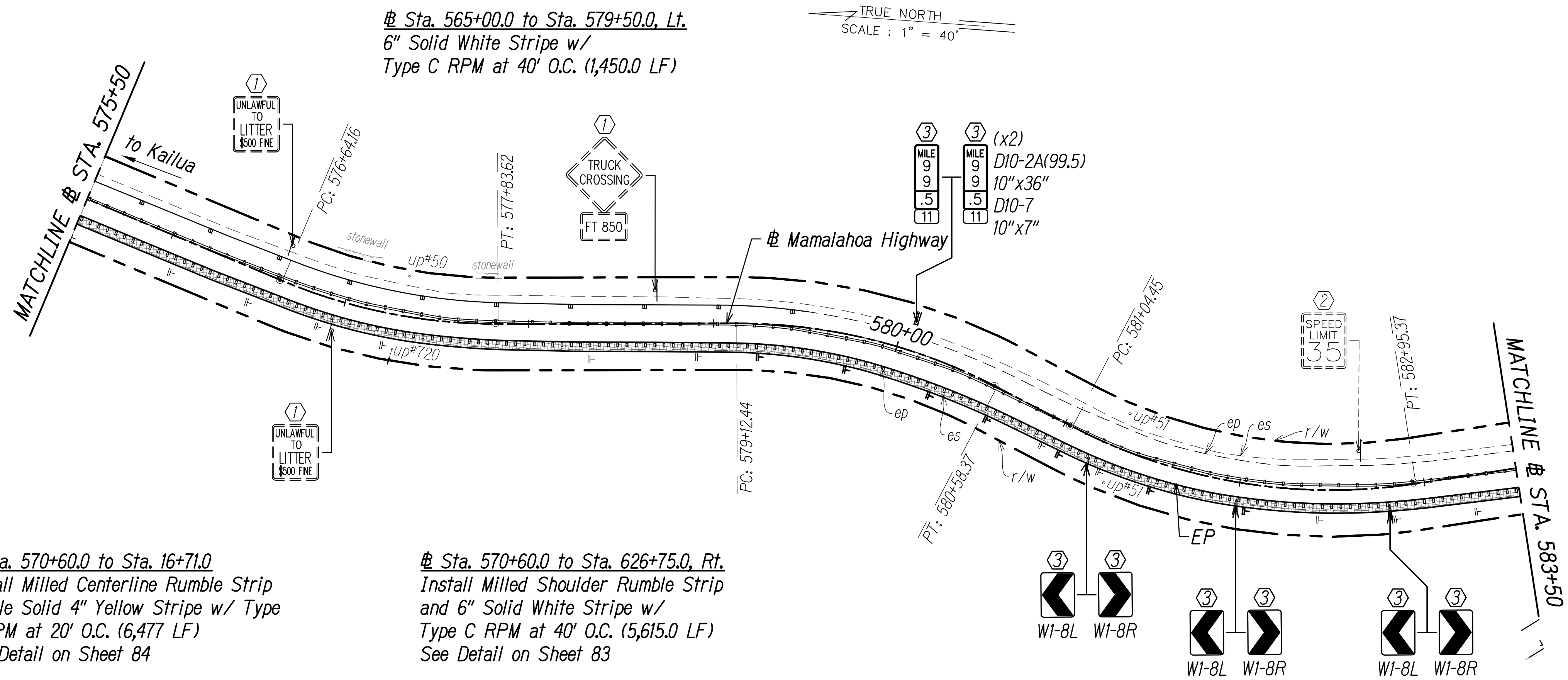
SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN No.	



TRUE NORTH
SCALE: 1" = 40'

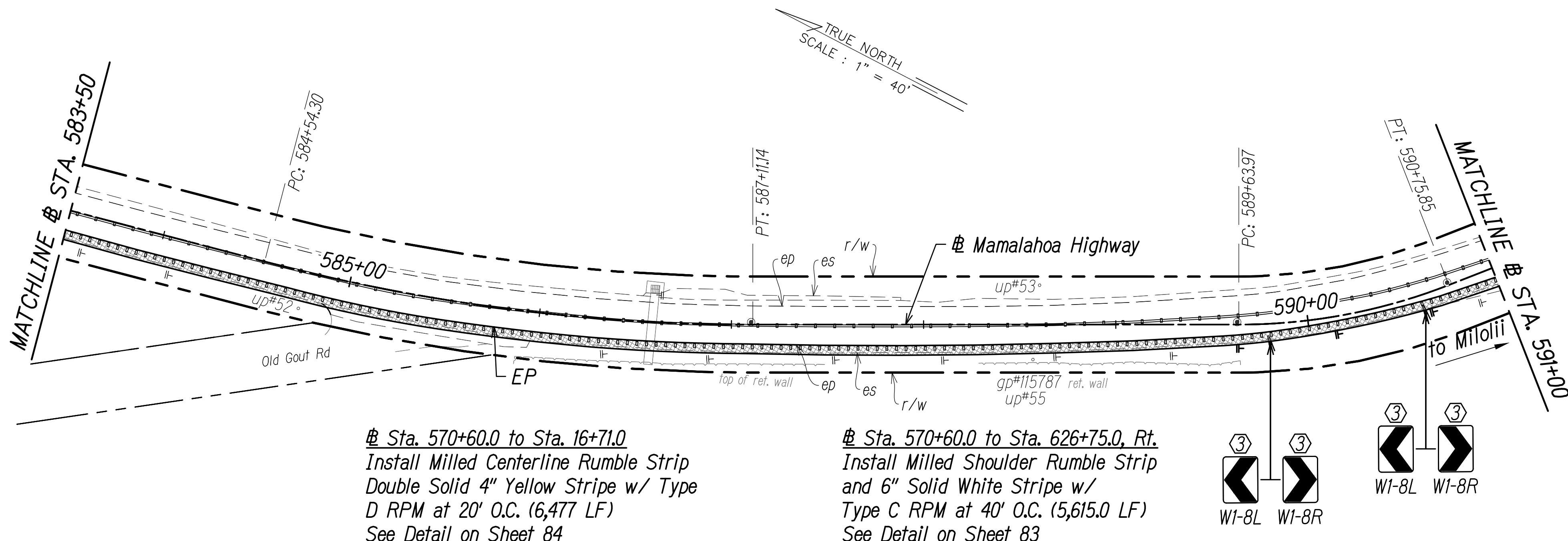
TRUE NORTH
SCALE: 1" = 40'

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-011-1(045)	2023	63	114



Sta. 570+60.0 to Sta. 16+71.0
 Install Milled Centerline Rumble Strip
 Double Solid 4" Yellow Stripe w/ Type
 D RPM at 20' O.C. (6,477 LF)
 See Detail on Sheet 84

Sta. 570+60.0 to Sta. 626+75.0, Rt.
 Install Milled Shoulder Rumble Strip
 and 6" Solid White Stripe w/
 Type C RPM at 40' O.C. (5,615.0 LF)
 See Detail on Sheet 83

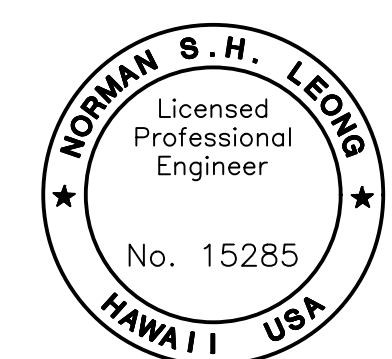


Sta. 570+60.0 to Sta. 16+71.0
 Install Milled Centerline Rumble Strip
 Double Solid 4" Yellow Stripe w/ Type
 D RPM at 20' O.C. (6,477 LF)
 See Detail on Sheet 84

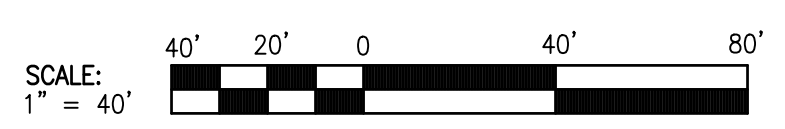
Sta. 570+60.0 to Sta. 626+75.0, Rt.
 Install Milled Shoulder Rumble Strip
 and 6" Solid White Stripe w/
 Type C RPM at 40' O.C. (5,615.0 LF)
 See Detail on Sheet 83

- Sign Key:**
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- Sawcut and Widen Exist. Shoulder
 - Milled Shoulder Rumble Strip
 - Milled Centerline Rumble Strip

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DESIGNED BY	
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CHECKED BY	
ORIGINAL PLAN	No.
NOTE BOOK	



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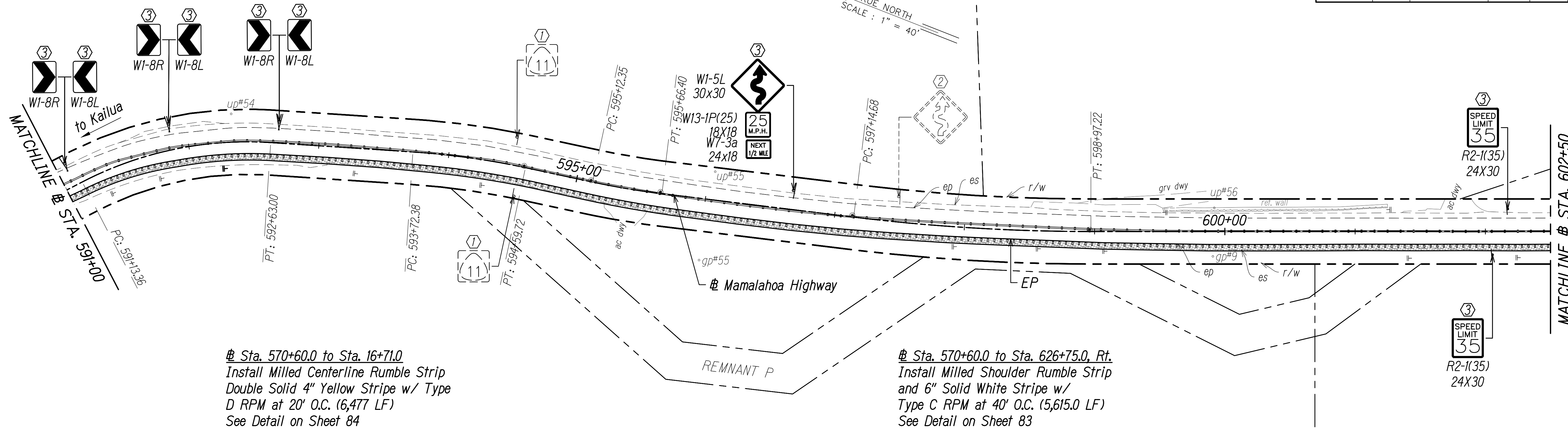


STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

SIGNING AND STRIPING PLAN

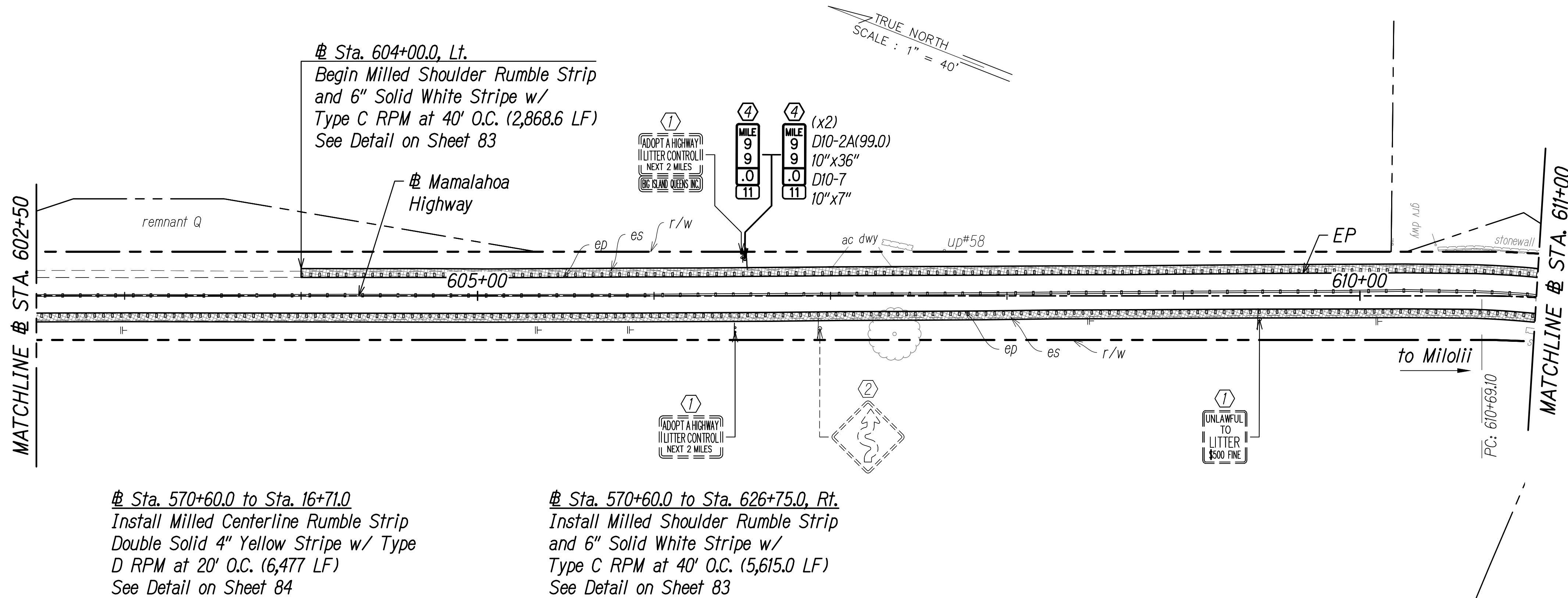
MAMALAHOA HIGHWAY
 SAFETY IMPROVEMENTS
 Vicinity of Haleili Street and Bruner Road
 Federal-Aid Project No. HSIP-011-1(045)
 Scale: 1"=40' Date: September 2023

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-011-1(045)	2023	64	114



Sta. 570+60.0 to Sta. 16+71.0
 Install Milled Centerline Rumble Strip
 Double Solid 4" Yellow Stripe w/ Type
 D RPM at 20' O.C. (6,477 LF)
 See Detail on Sheet 84

Sta. 570+60.0 to Sta. 626+75.0, Rt.
 Install Milled Shoulder Rumble Strip
 and 6" Solid White Stripe w/
 Type C RPM at 40' O.C. (5,615.0 LF)
 See Detail on Sheet 83

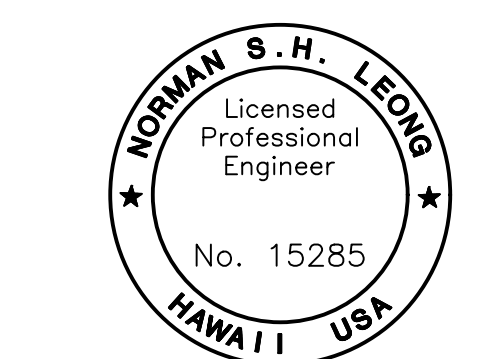


Sta. 570+60.0 to Sta. 16+71.0
 Install Milled Centerline Rumble Strip
 Double Solid 4" Yellow Stripe w/ Type
 D RPM at 20' O.C. (6,477 LF)
 See Detail on Sheet 84

Sta. 570+60.0 to Sta. 626+75.0, Rt.
 Install Milled Shoulder Rumble Strip
 and 6" Solid White Stripe w/
 Type C RPM at 40' O.C. (5,615.0 LF)
 See Detail on Sheet 83

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 - Milled Shoulder Rumble Strip
 - Milled Centerline Rumble Strip

SURVEY PLOTTED BY	DATE
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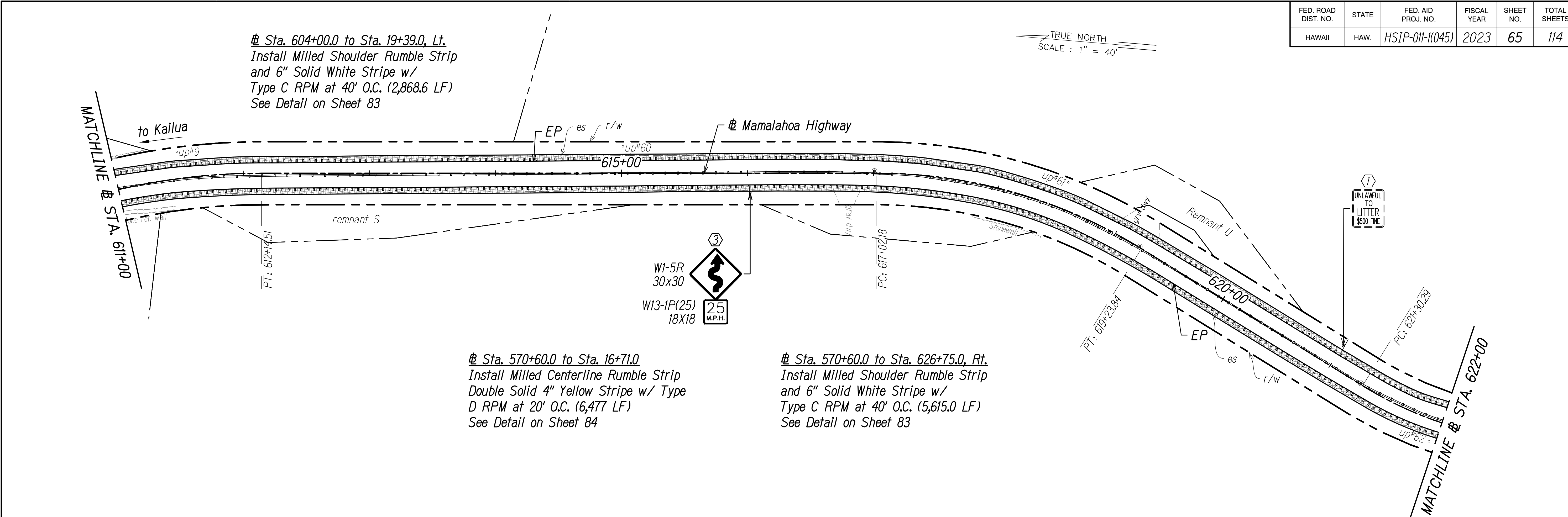


STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

SIGNING AND STRIPING PLAN

MAMALAHOA HIGHWAY
 SAFETY IMPROVEMENTS
 Vicinity of Haleili Street and Bruner Road
 Federal-Aid Project No. HSIP-011-1(045)
 Scale: 1"=40' Date: September 2023

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-011-1(045)	2023	65	114

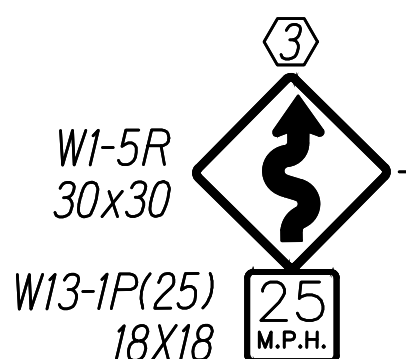
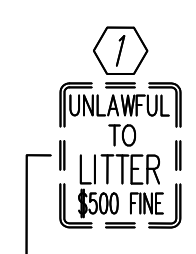


Sta. 604+00.0 to Sta. 19+39.0, Lt.
Install Milled Shoulder Rumble Strip
and 6" Solid White Stripe w/
Type C RPM at 40' O.C. (2,868.6 LF)
See Detail on Sheet 83

Sta. 570+60.0 to Sta. 16+71.0
Install Milled Centerline Rumble Strip
Double Solid 4" Yellow Stripe w/ Type
D RPM at 20' O.C. (6,477 LF)
See Detail on Sheet 84

Sta. 570+60.0 to Sta. 626+75.0, Rt.
Install Milled Shoulder Rumble Strip
and 6" Solid White Stripe w/
Type C RPM at 40' O.C. (5,615.0 LF)
See Detail on Sheet 83

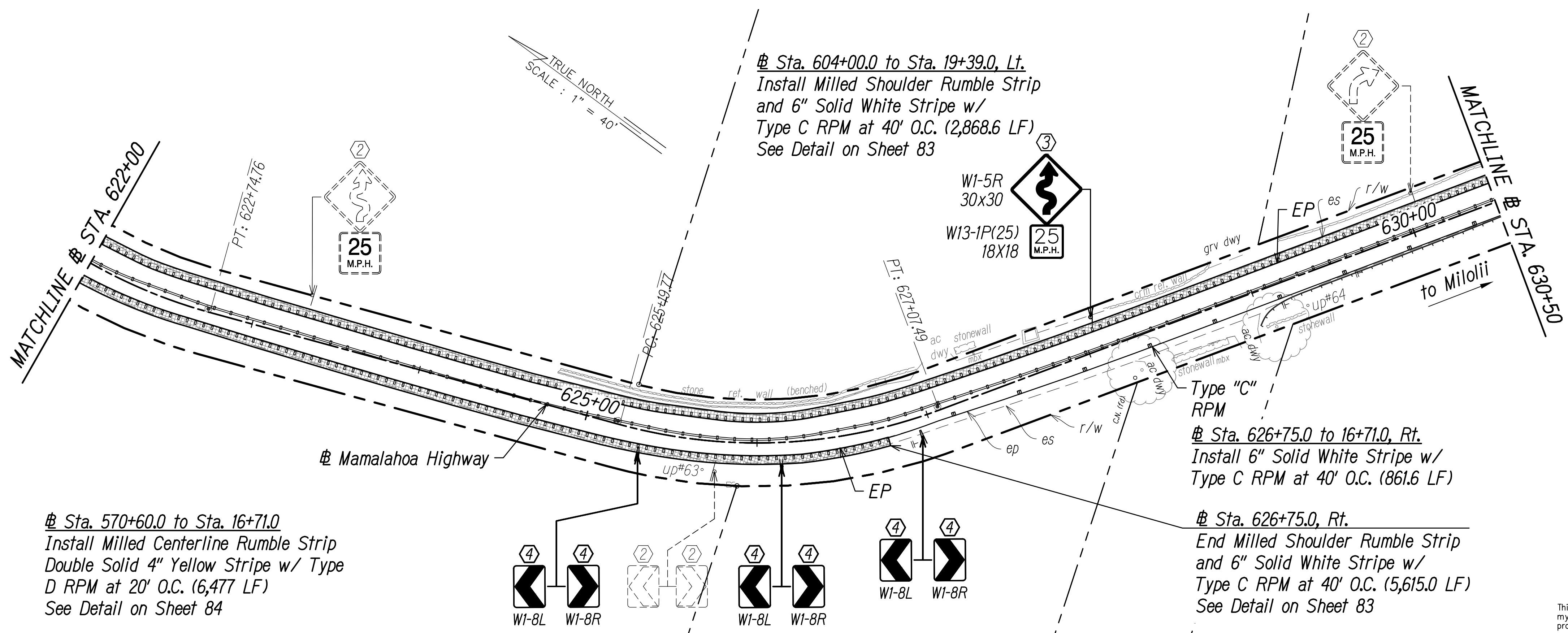
TRUE NORTH
SCALE: 1" = 40'



Sign Key:

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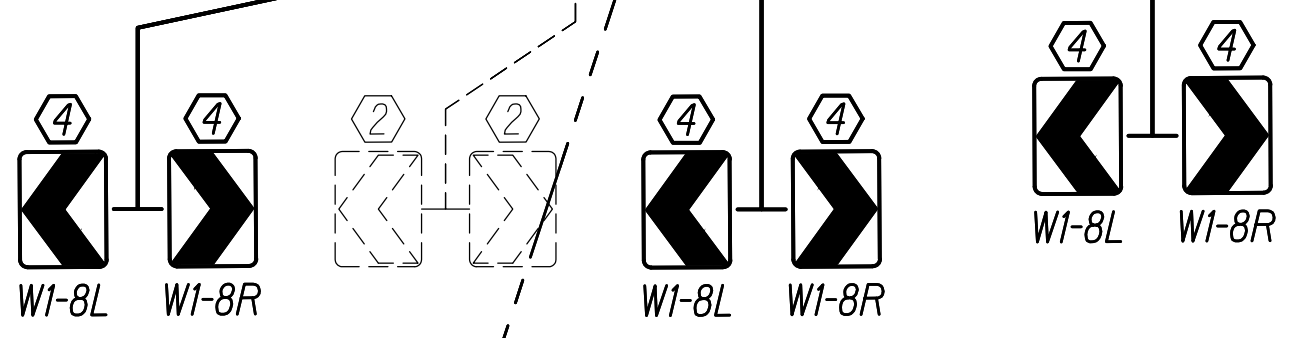
- Sawcut and Widen Exist. Shoulder
- Milled Shoulder Rumble Strip
- Milled Centerline Rumble Strip



Sta. 604+00.0 to Sta. 19+39.0, Lt.
Install Milled Shoulder Rumble Strip
and 6" Solid White Stripe w/
Type C RPM at 40' O.C. (2,868.6 LF)
See Detail on Sheet 83

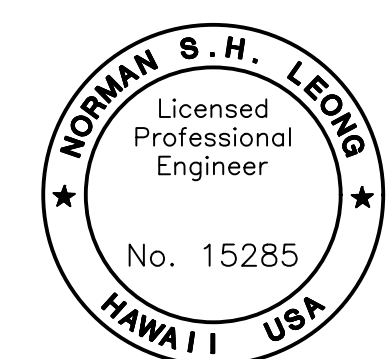
Sta. 626+75.0 to 16+71.0, Rt.
Install 6" Solid White Stripe w/
Type C RPM at 40' O.C. (861.6 LF)

Sta. 626+75.0, Rt.
End Milled Shoulder Rumble Strip
and 6" Solid White Stripe w/
Type C RPM at 40' O.C. (5,615.0 LF)
See Detail on Sheet 83



SURVEY PLOTTED BY	DATE
DRAWN BY	" "
DESIGNED BY	" "
QUANTITIES BY	" "
CHECKED BY	" "
ORIGINAL PLAN No.	" "

Sta. 570+60.0 to Sta. 16+71.0
Install Milled Centerline Rumble Strip
Double Solid 4" Yellow Stripe w/ Type
D RPM at 20' O.C. (6,477 LF)
See Detail on Sheet 84



This work was prepared by me or under my supervision and construction of this project will be under my observation.
Norman S.H. Leong
Expiration Date of License 4/24

SCALE: 1" = 40'

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING AND STRIPING PLAN

MAMALAHOA HIGHWAY
SAFETY IMPROVEMENTS
Vicinity of Haleili Street and Bruner Road
Federal-Aid Project No. HSIP-011-1(045)
Scale: 1"=40' Date: September 2023

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-011-1(045)	2023	66	114

Sta. 604+00.0 to Sta. 19+39.0, Lt.
Install Milled Shoulder Rumble Strip and 6" Solid White Stripe w/ Type C RPM at 40' O.C. (2,868.6 LF)
See Detail on Sheet 83

Sta. 19+39.0 to 16+70.0, Lt.
Install 6" Solid White Stripe w/ Type C RPM at 40' O.C. (269.0 LF)

Sta. 13+90.0, Lt.
Begin Milled Shoulder Rumble Strip and 6" Solid White Stripe w/ Type C RPM at 40' o.c. (3,400.3 LF)
See Detail on Sheet 83

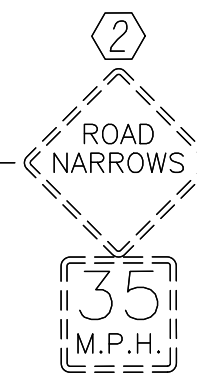
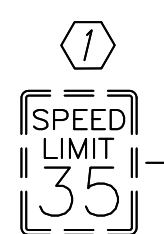
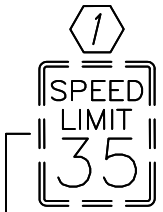
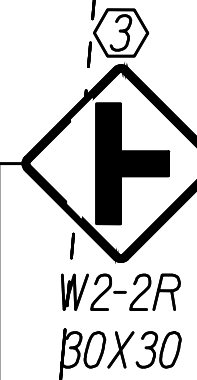
Sta. 626+75.0 to 16+71.0, Rt.
Install 6" Solid White Stripe w/ Type C RPM at 40' O.C. (861.6 LF)

Sta. 16+71.0
End Milled Centerline Rumble Strip Double Solid 4" Yellow Stripe w/ Type D RPM at 20' O.C. (6,477 LF)
See Detail on Sheet 84

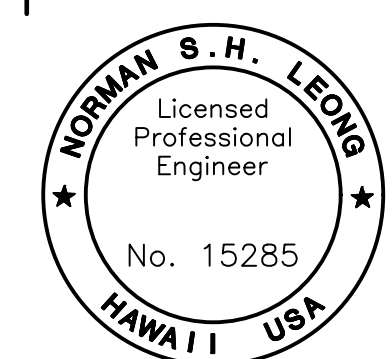
Sta. 15+26.0
Begin Milled Centerline Rumble Strip Double Solid 4" Yellow Stripe w/ Type D RPM at 20' O.C. (6,433.6 LF)
See Detail on Sheet 84

Sta. 13+90.0 to 674+23.0, Lt.
Install Milled Shoulder Rumble Strip and 6" Solid White Stripe w/ Type C RPM at 40' o.c. (3,400.3 LF)
See Detail on Sheet 83

Sta. 15+26.0 to Sta. 26+08.0
Install Milled Centerline Rumble Strip Double Solid 4" Yellow Stripe w/ Type D RPM at 20' O.C. (6,433.6 LF)
See Detail on Sheet 84



- Sign Key:**
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- Sawcut and Widen Exist. Shoulder
 - Milled Shoulder Rumble Strip
 - Milled Centerline Rumble Strip

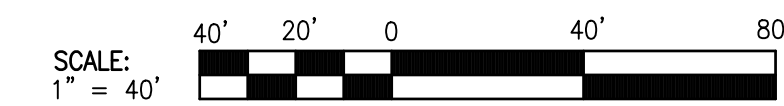


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Norman S.H. Leong
Expiration Date of License 4/24

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING AND STRIPING PLAN

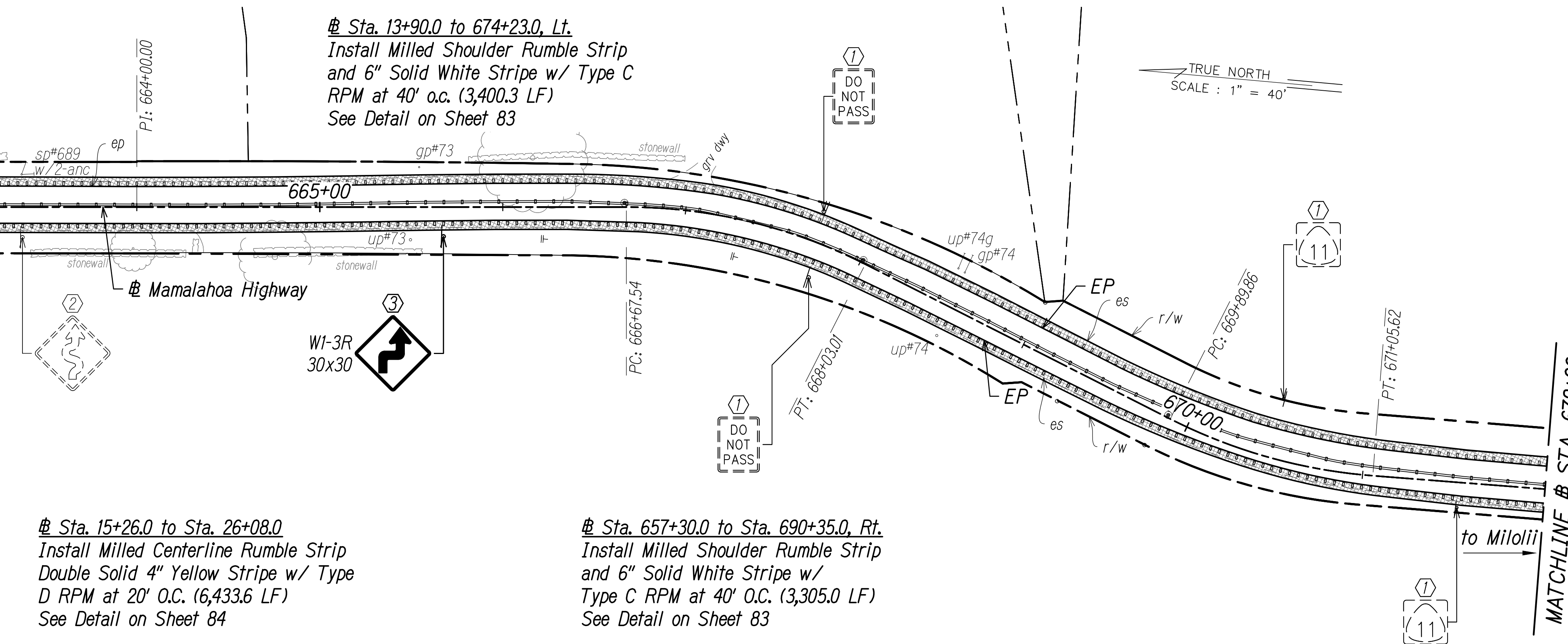
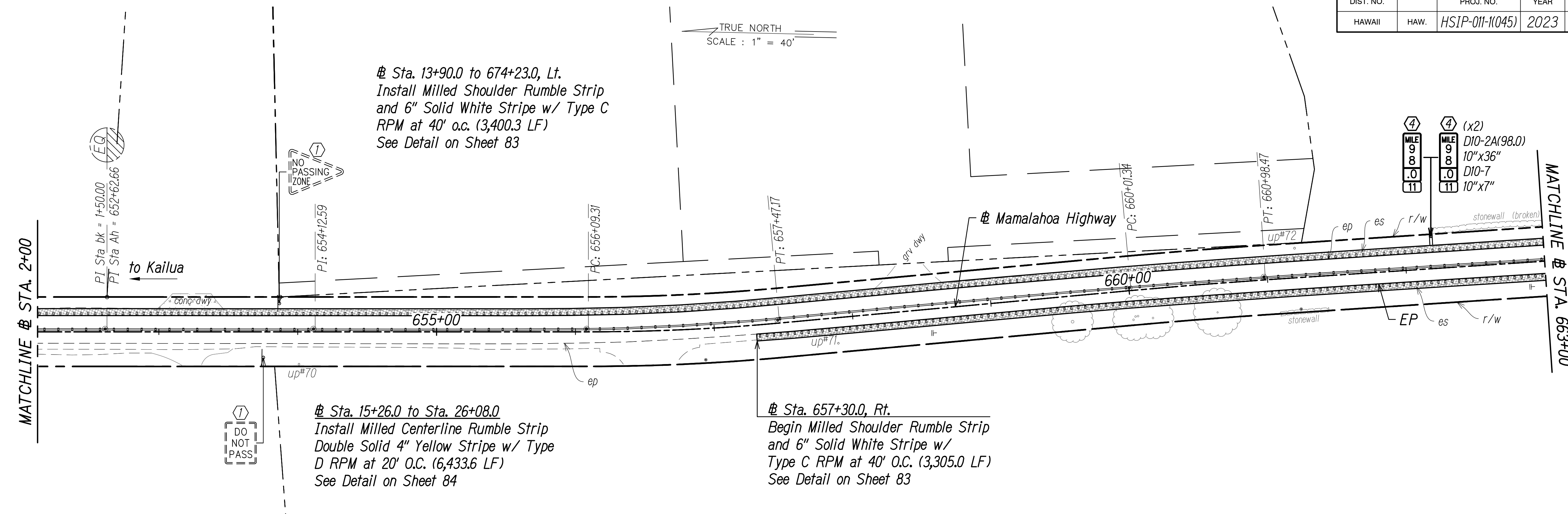
MAMALAHOA HIGHWAY
SAFETY IMPROVEMENTS
Vicinity of Haleili Street and Bruner Road
Federal-Aid Project No. HSIP-011-1(045)
Scale: 1"=40' Date: September 2023



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

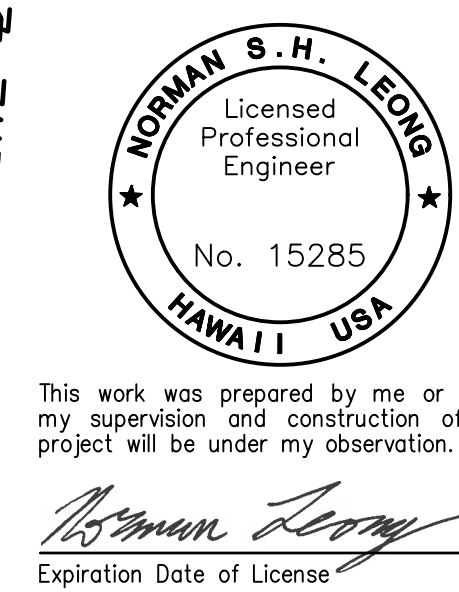
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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-011-1(045)	2023	67	114



- Sign Key:**
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QUANTITIES BY	
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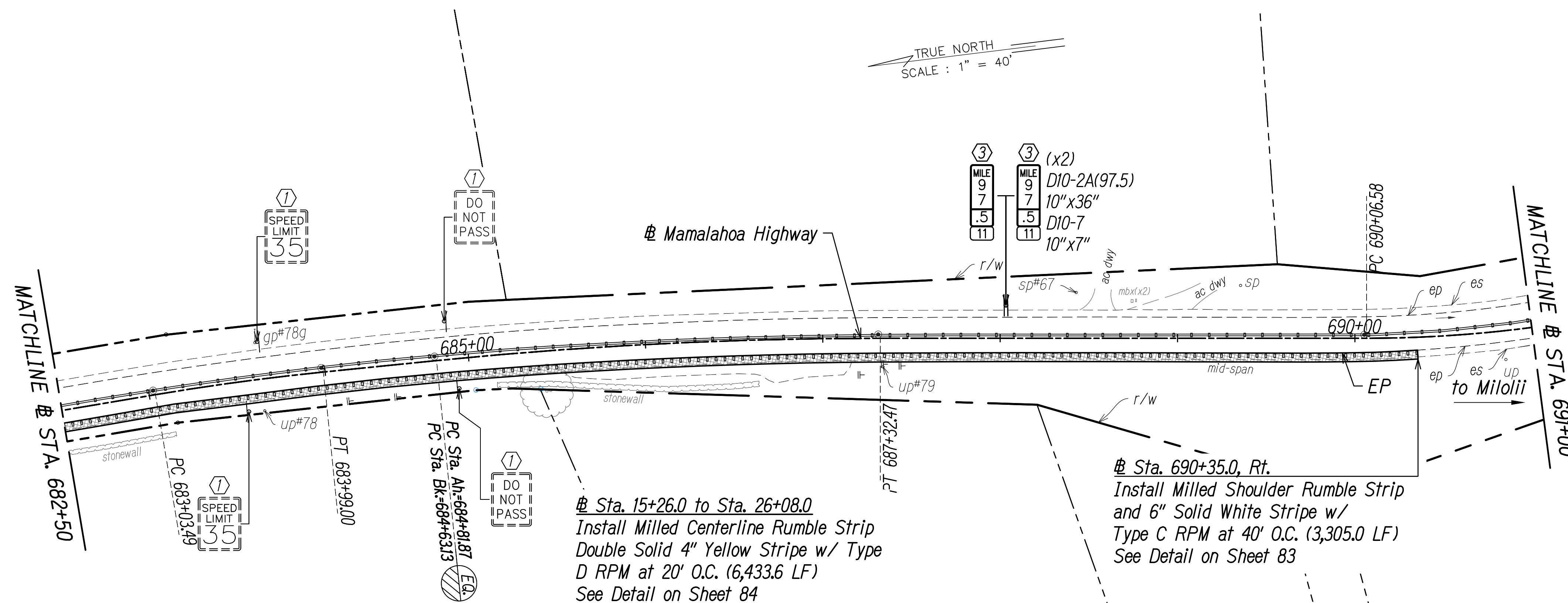
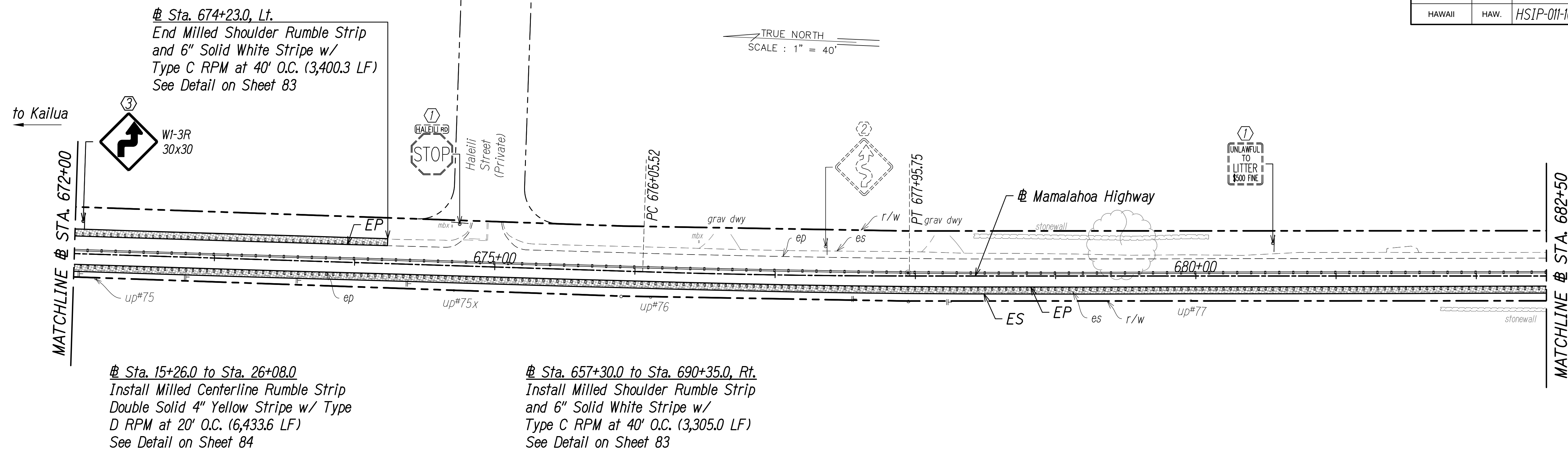
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING AND STRIPING PLAN

MAMALAHOA HIGHWAY
SAFETY IMPROVEMENTS
Vicinity of Haleili Street and Bruner Road
Federal-Aid Project No. HSIP-011-1(045)
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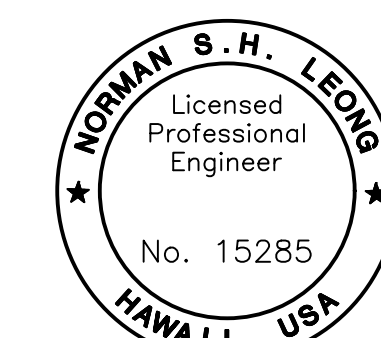


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-011-1(045)	2023	68	114



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 - Milled Shoulder Rumble Strip
 - Milled Centerline Rumble Strip

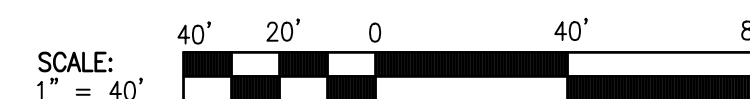
SURVEY PLOTTED BY	DATE
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TRACED BY	
DESIGNED BY	
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CHECKED BY	
ORIGINAL PLAN	No.
NOTE BOOK	



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Norman S.H. Leong

Expiration Date of License 4/24



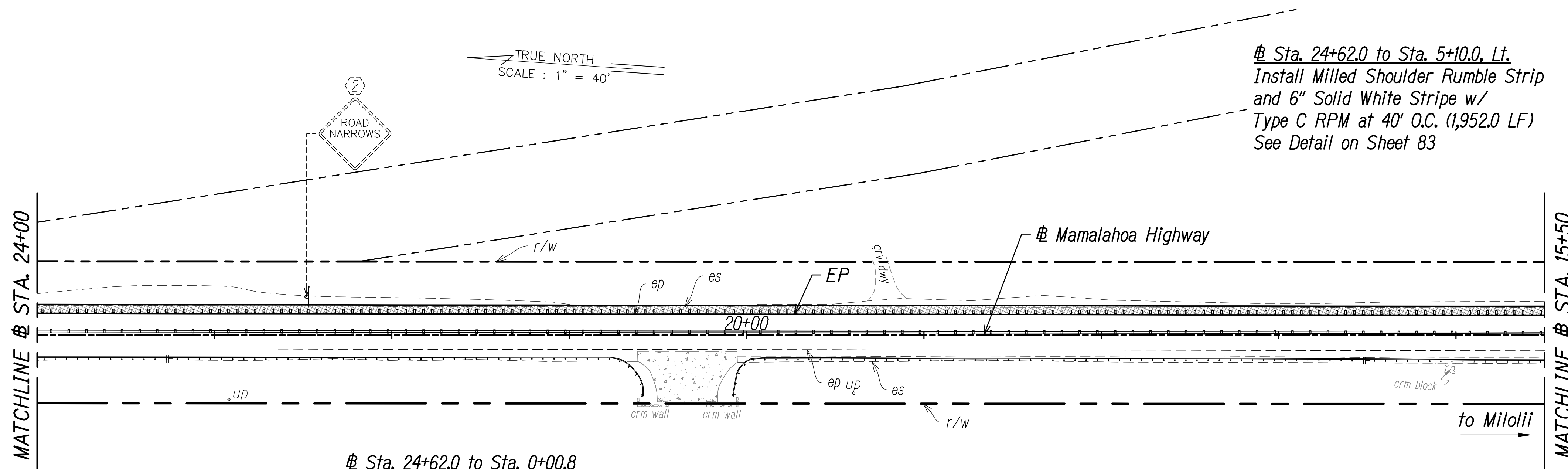
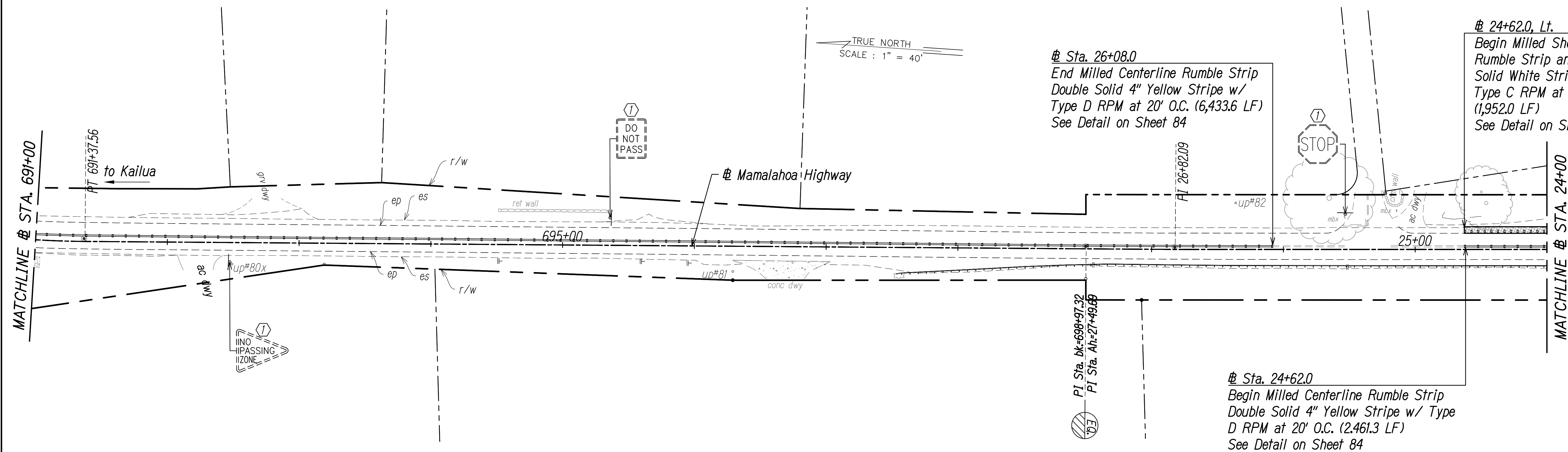
STATE OF HAWAII
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SIGNING AND STRIPING PLAN

MAMALAHOA HIGHWAY
SAFETY IMPROVEMENTS
Vicinity of Haleiili Street and Bruner Road
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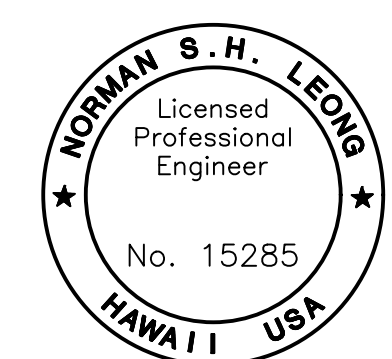
SHEET No. 22 OF 26 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-011-1(045)	2023	69	114



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ORIGINAL PLAN No.	



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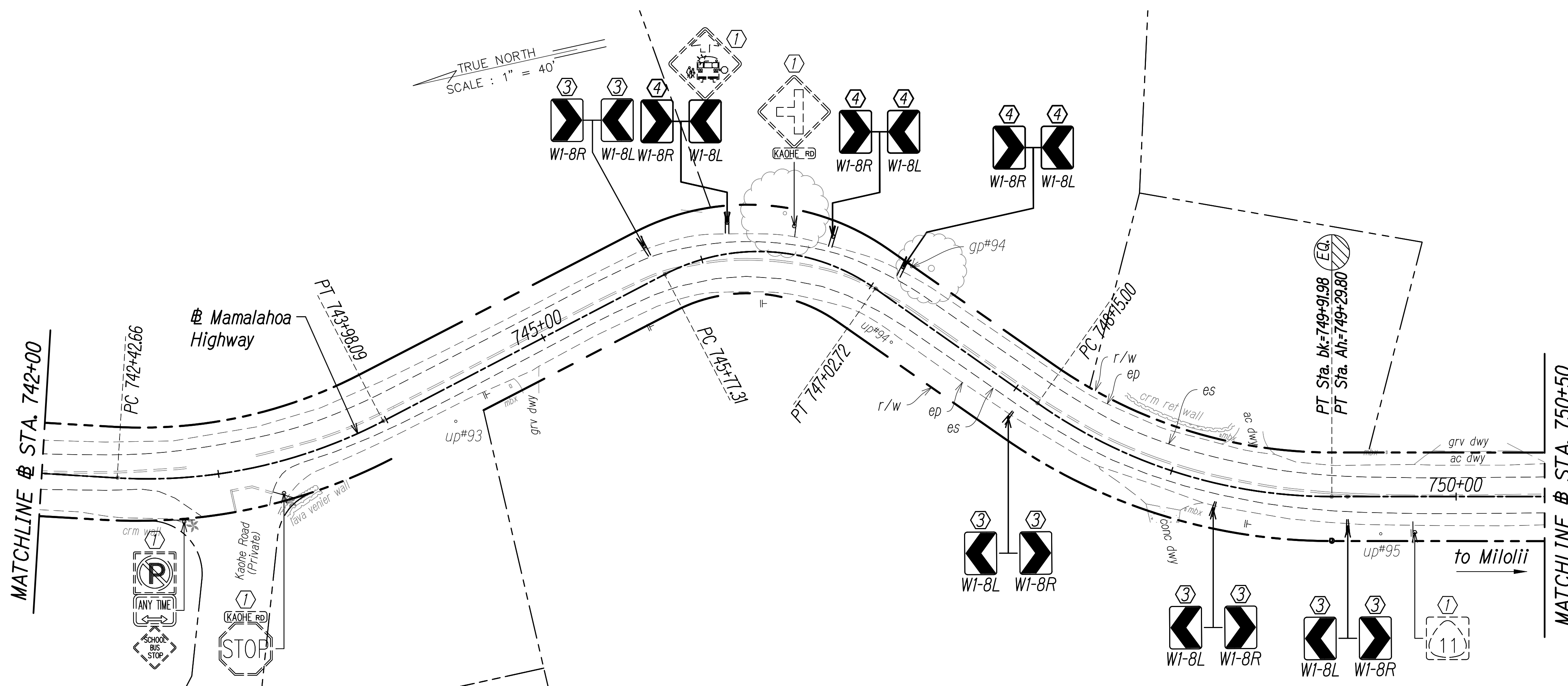
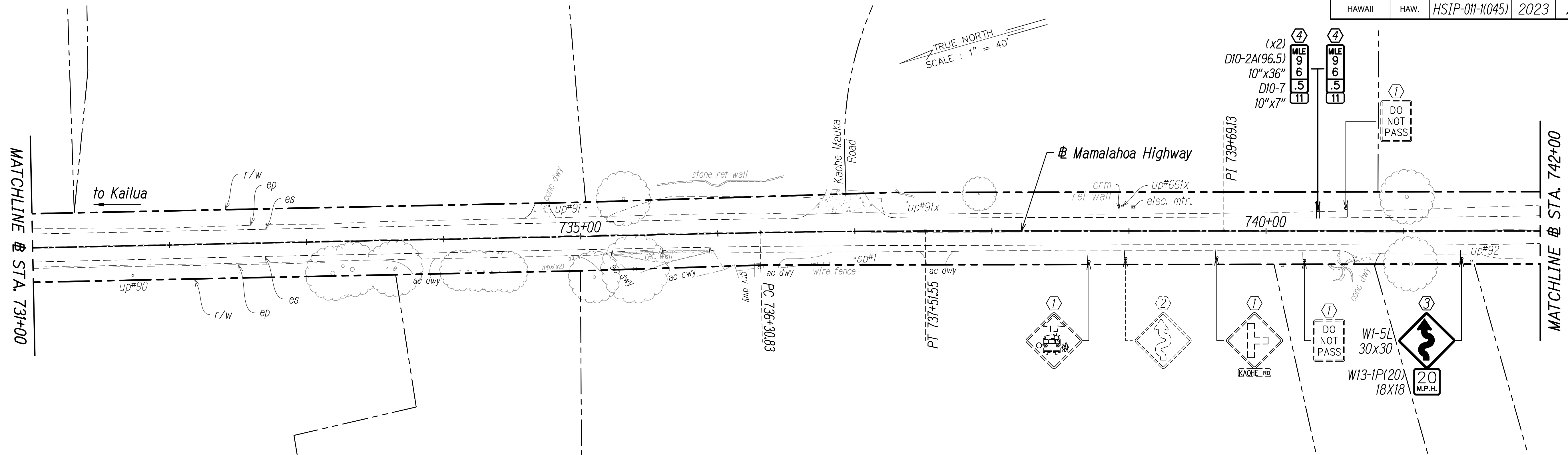


STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

SIGNING AND STRIPING PLAN

MAMALAHOA HIGHWAY
 SAFETY IMPROVEMENTS
 Vicinity of Haleili Street and Bruner Road
 Federal-Aid Project No. HSIP-011-1(045)
 Scale: 1"=40' Date: September 2023

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-011-1(045)	2023	XX	114



Sign Key:

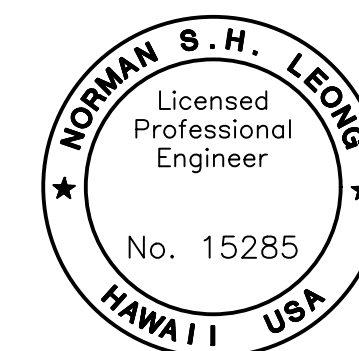
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Sawcut and Widen Exist. Shoulder

Milled Shoulder Rumble Strip

Milled Centerline Rumble Strip

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



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Norman S.H. Leong
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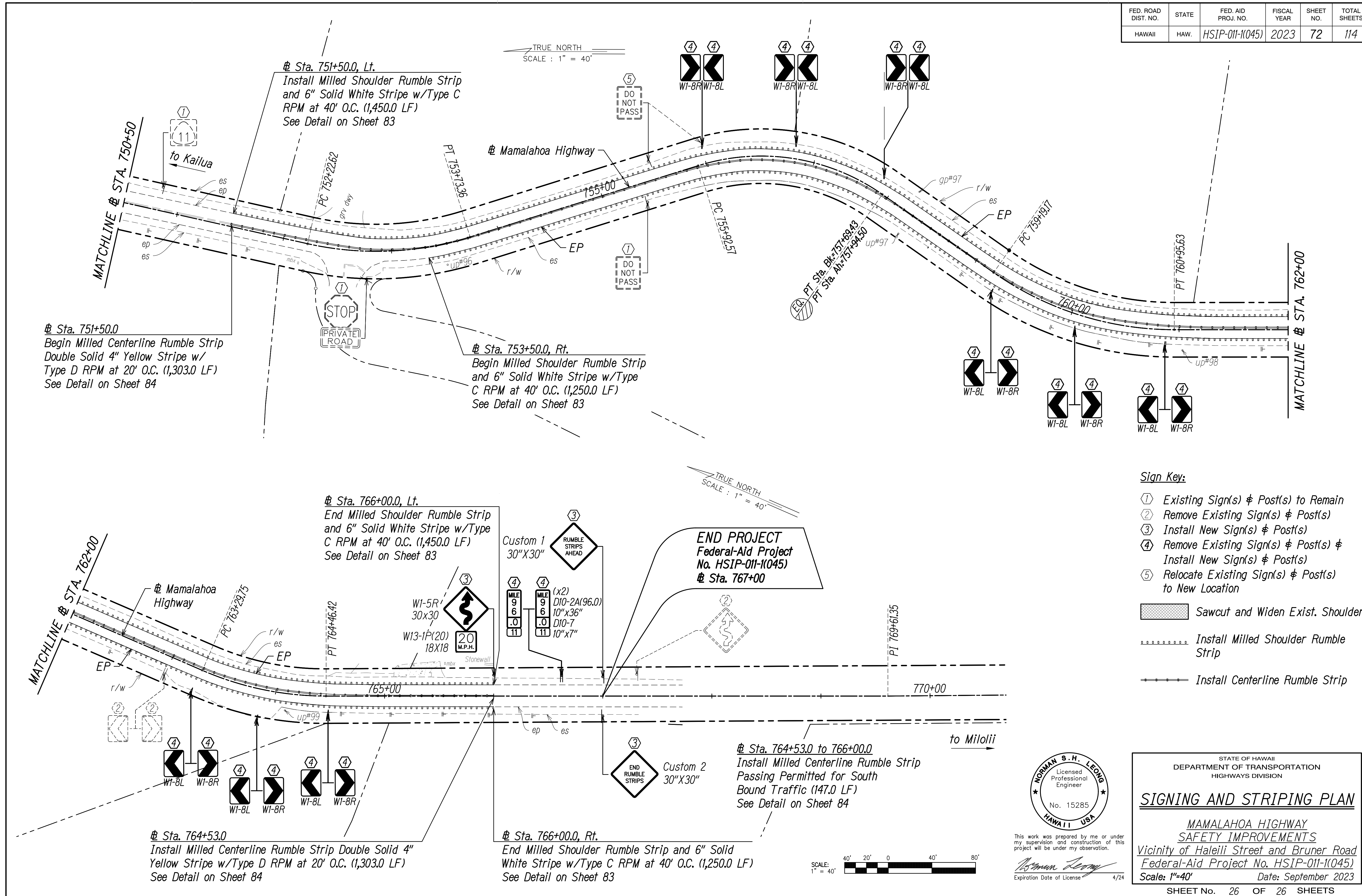


STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

SIGNING AND STRIPING PLAN

MAMALAHOA HIGHWAY
 SAFETY IMPROVEMENTS
 Vicinity of Haleili Street and Bruner Road
 Federal-Aid Project No. HSIP-011-1(045)
 Scale: 1"=40' Date: September 2023

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-011-1(045)	2023	72	114



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- Sawcut and Widen Exist. Shoulder
 - Install Milled Shoulder Rumble Strip
 - Install Centerline Rumble Strip

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

NORMAN S. H. LEONG
 Licensed Professional Engineer
 No. 15285
 HAWAII USA

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Norman S. H. Leong
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STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

SIGNING AND STRIPING PLAN

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