

ORIGINAL PLAN

NOTE BOOK

No.

SURVEY PLOTTED BY

DRAWN BY

TRACED BY

DESIGNED BY

QUANTITIES BY

CHECKED BY

DATE

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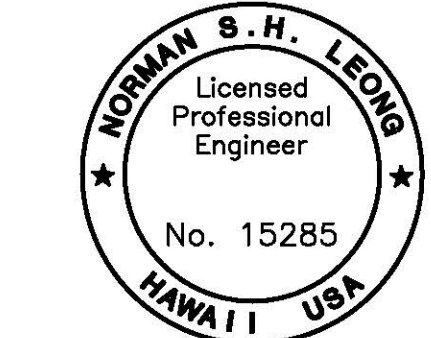
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HS1P-011-1(045)	2023	ADD. 79	114

SIGNING SCHEDULE						
Exist	New	Left	Right	Description	Sign Code	Sign Key
746+50		x		side road (left)	W2-2L	1
				Kaohe Road	D3-1	1
	746+70	x		Chevron (Right)	W1-8R	4
				Chevron (Left)	W1-8L	4
	747+09	x		Chevron (Right)	W1-8R	4
				Chevron (Left)	W1-8L	4
	748+06		x	Chevron (Left)	W1-8L	3
				Chevron (Right)	W1-8R	3
	749+28		x	Chevron (left)	W1-8L	3
				Chevron (Right)	W1-8R	3
	749+39		x	Chevron (Left)	W1-8L	3
				Chevron (Right)	W1-8R	3
749+77			x	County Route Signs	M1-6(11)	1
750+82		X		County Route Signs	M1-6(11)	1
752+78			X	Private Road		1
				Stop	R1-1	1
755+38			X	Do Not Pass	R4-1	1
756+00		x		Do Not Pass	R4-1	5
756+14	756+01	x		Chevron (Right)	W1-8R	4
				Chevron (Left)	W1-8L	4
756+88	756+81	x		Chevron (Right)	W1-8R	4
				Chevron (Left)	W1-8L	4
757+60	757+60	x		Chevron (Right)	W1-8R	4
				Chevron (Left)	W1-8L	4
759+10	759+27		x	Chevron (Left)	W1-8L	4
				Chevron (Right)	W1-8R	4
760+10	760+07		x	Chevron (Left)	W1-8L	4
				Chevron (Right)	W1-8R	4
761+08	760+87		x	Chevron (Left)	W1-8L	4
				Chevron (Right)	W1-8R	4
762+99		x		chevron (left)	W1-8L	2
				chevron (right)	W1-8R	
763+36	763+28		x	Chevron (Left)	W1-8L	4
				Chevron (Right)	W1-8R	4
763+66	763+88		x	Chevron (Left)	W1-8L	4
				Chevron (Right)	W1-8R	4
⚠ 763+36	763+28		x	Chevron (Left)	W1-8L	4
				Chevron (Right)	W1-8R	4
764+05	764+48		x	Chevron (Left)	W1-8L	4
				Chevron (Right)	W1-8R	4
	766+00	x		Winding Road (Right)	W1-5R	3
				Advisory Speed Plaque (20)	W13-1p(20)	3
766+62	766+62	x		Intermediate Reference Location Sign (MP 96.0)	D10-2A(96.0)	4
	767+00		x	"End Rumble Strips"	Custom 2	3
	767+00	x		"Rumble Strips Ahead"	Custom 1	3
767+31		x		winding road (right)	W1-5R	2

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

Bid Items	Description	Qty.
202.0420	Removal of Existing Traffic Signs and Posts	23
631.5000	Regulatory Sign (10 SF or less) w/ Post	3
631.6000	Warning Sign (10 SF or less) w/ Post	95
631.6500	Warning Sign (10 SF or less) w/o Post	87
631.7000	Relocation of Existing Sign and Existing Post	4
632.5000	Milepost Marker Sign and Route Sign (Bi-Directional)	19



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*Norman S. H. Leong*

Expiration Date of License 4/24

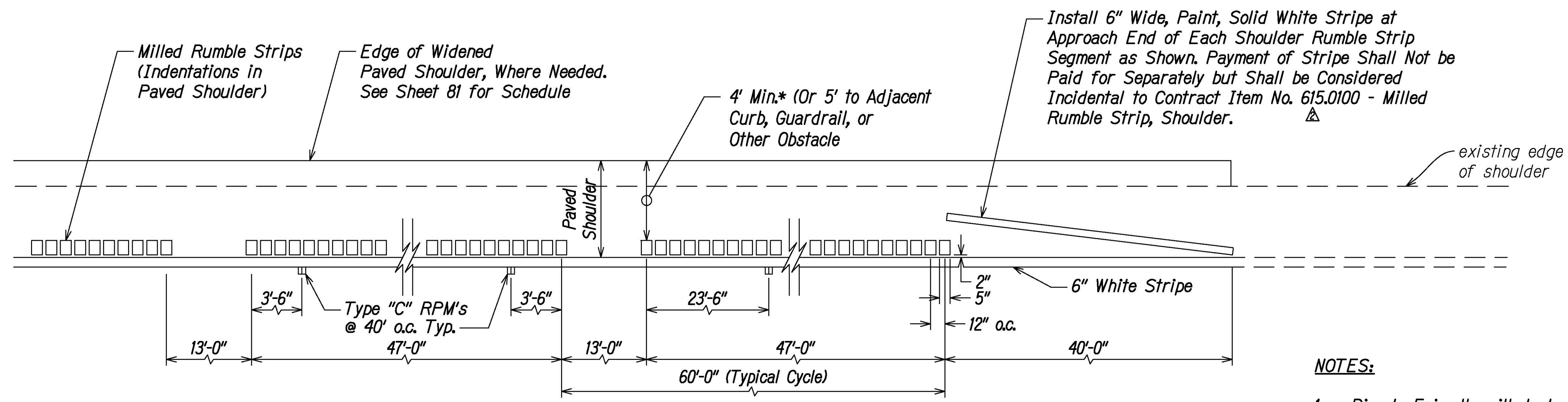
10/23/23

⚠ Revised Schedule

Date	Description
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
SIGN SCHEDULE	
MAMALAHOA HIGHWAY	
SAFETY IMPROVEMENTS	
Vicinity of Haleili Street and Bruner Road	
Federal-Aid Project No. HS1P-011-1(045)	
Scale: NTS	Date: September 2023

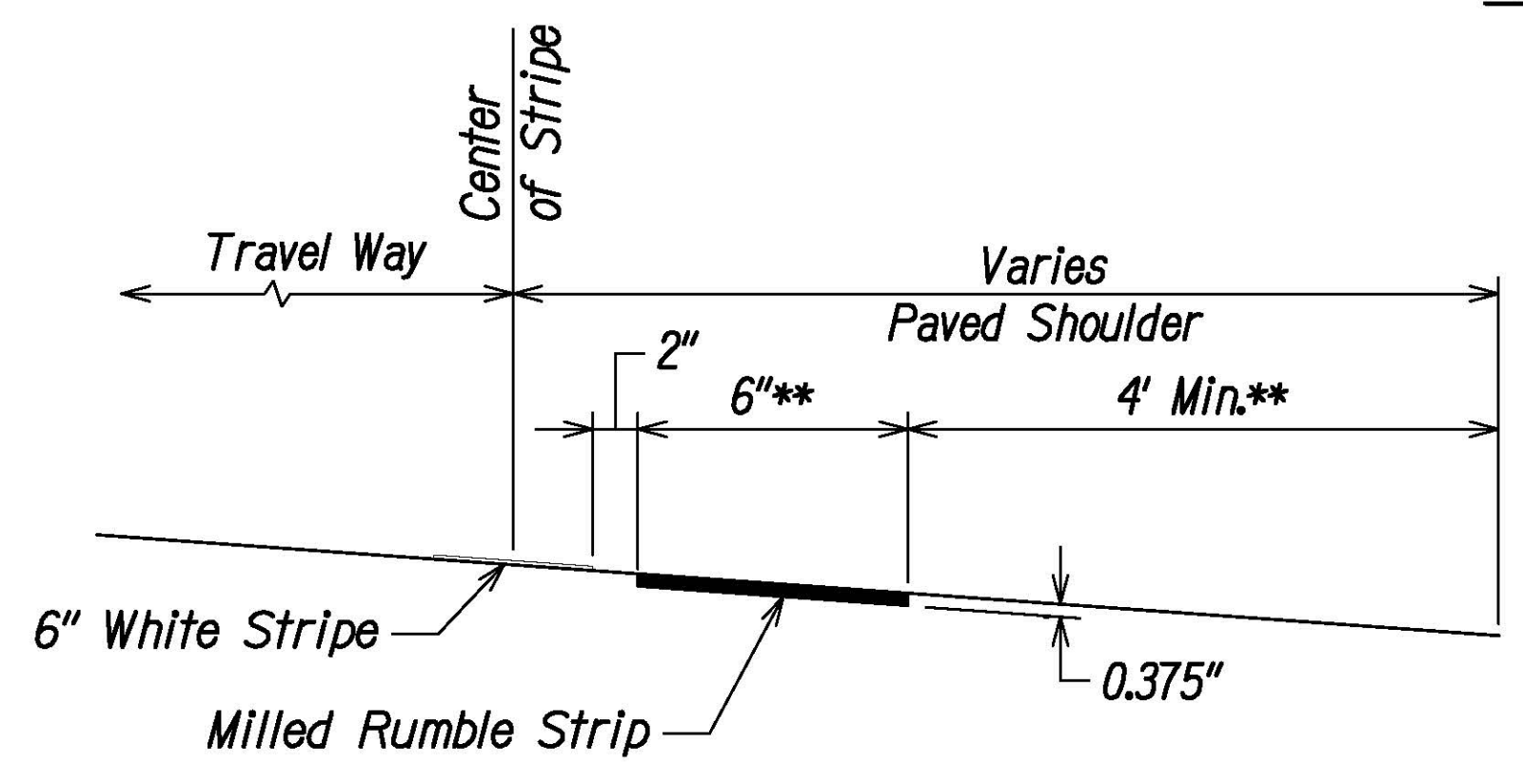
SHEET No. 7 OF 8 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-011-1(045)	2023	ADD. 83	114



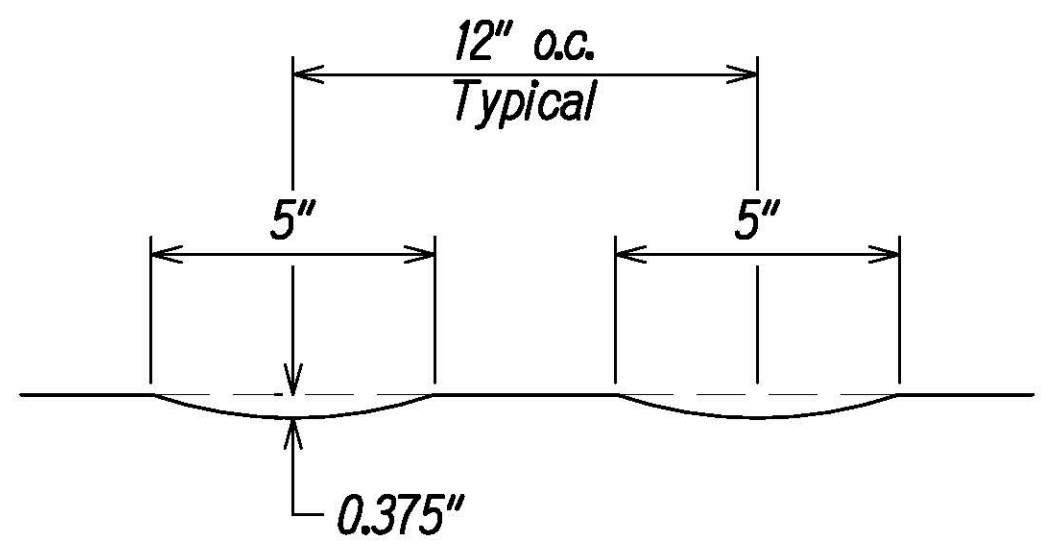
PLAN - MILLED SHOULDER RUMBLE STRIP

Not to Scale



SECTION A-A

Not to Scale



CROSS SECTION

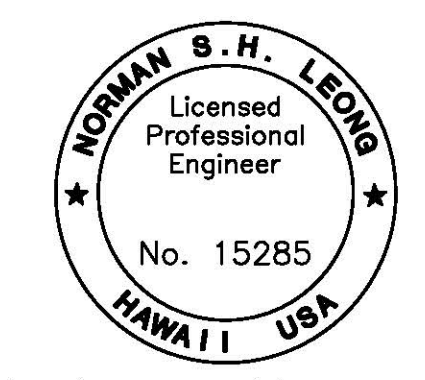
Not to Scale

NOTES:

1. Bicycle Friendly milled shoulder rumble strip shall not be installed where shoulder serves as a part time shoulder lane.
- \* 2. Bicycle Friendly milled shoulder rumble strip should not be used unless 4 feet of clear shoulder width for bicycle use is available between the rumble strips and the outer edge of the paved shoulder.
- \*\* 3. Length of rumble strip reduced from 12" to 6" minimum to meet clearance requirements. Designer has coordinated with HWY-TD for milled shoulder rumble strip design to be less than the typical 12" dimension.

SHOULDER RUMBLE STRIPS

SURVEY PLOTTED BY	DATE
DRAWN BY	"
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ORIGINAL PLAN	No.

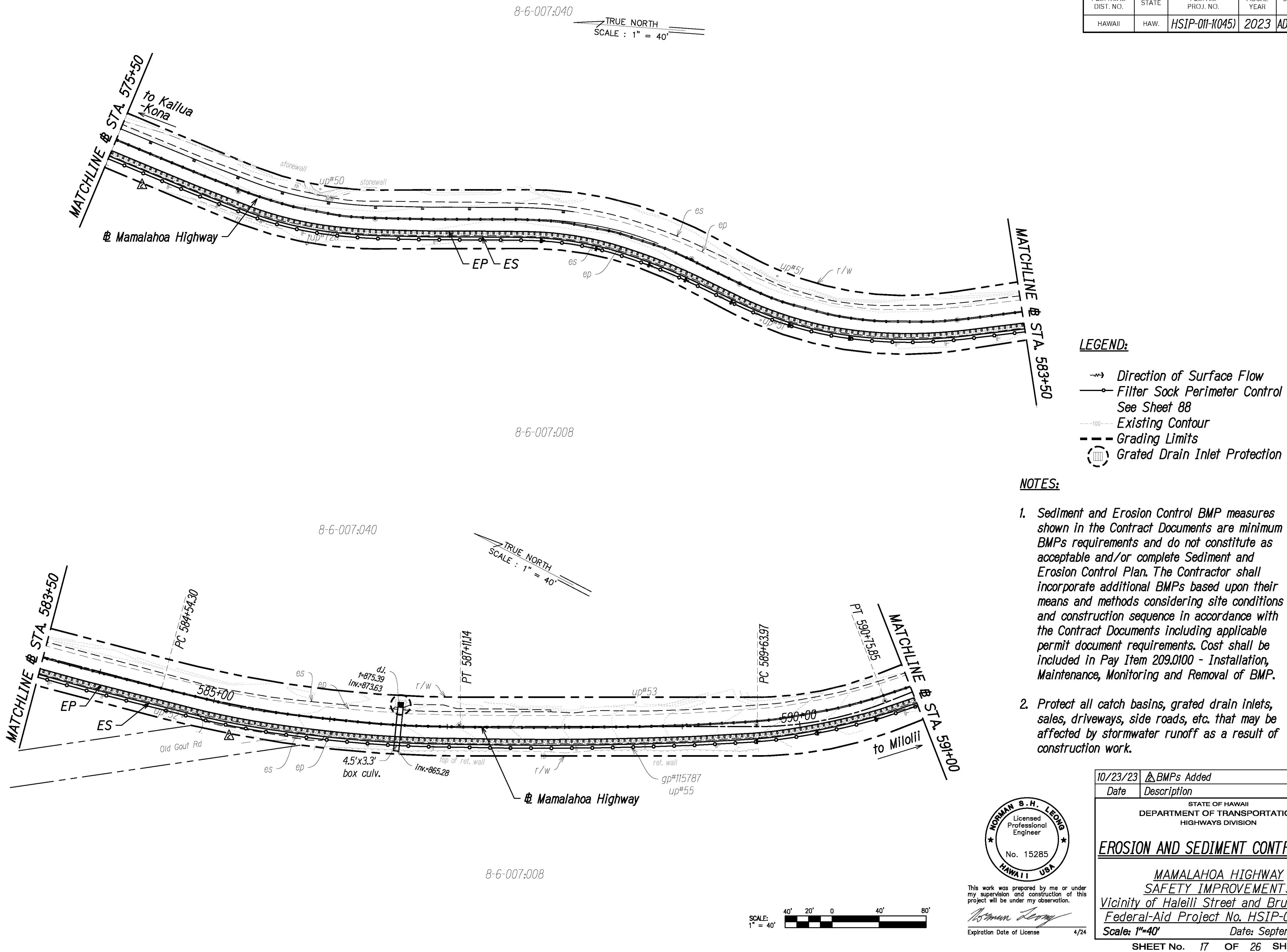


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*Norman Leong*  
Expiration Date of License 4/24

10/23/23	Revised Note
Date	Description
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
MILLED RUMBLE STRIP DETAILS	
MAMALAHOA HIGHWAY SAFETY IMPROVEMENTS Vicinity of Haleili Street and Bruner Road Federal-Aid Project No. HSIP-011-1(045)	
Scale: NTS	Date: September 2023
SHEET No. 1 OF 3 SHEETS	



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-011-1(045)	2023	ADD. 105	114



- LEGEND:**
- Direction of Surface Flow
  - Filter Sock Perimeter Control See Sheet 88
  - Existing Contour
  - Grading Limits
  - Grated Drain Inlet Protection

- NOTES:**
- Sediment and Erosion Control BMP measures shown in the Contract Documents are minimum BMPs requirements and do not constitute as acceptable and/or complete Sediment and Erosion Control Plan. The Contractor shall incorporate additional BMPs based upon their means and methods considering site conditions and construction sequence in accordance with the Contract Documents including applicable permit document requirements. Cost shall be included in Pay Item 209.0100 - Installation, Maintenance, Monitoring and Removal of BMP.
  - Protect all catch basins, grated drain inlets, sales, driveways, side roads, etc. that may be affected by stormwater runoff as a result of construction work.

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ORIGINAL PLAN	No.
NOTE BOOK	No.

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

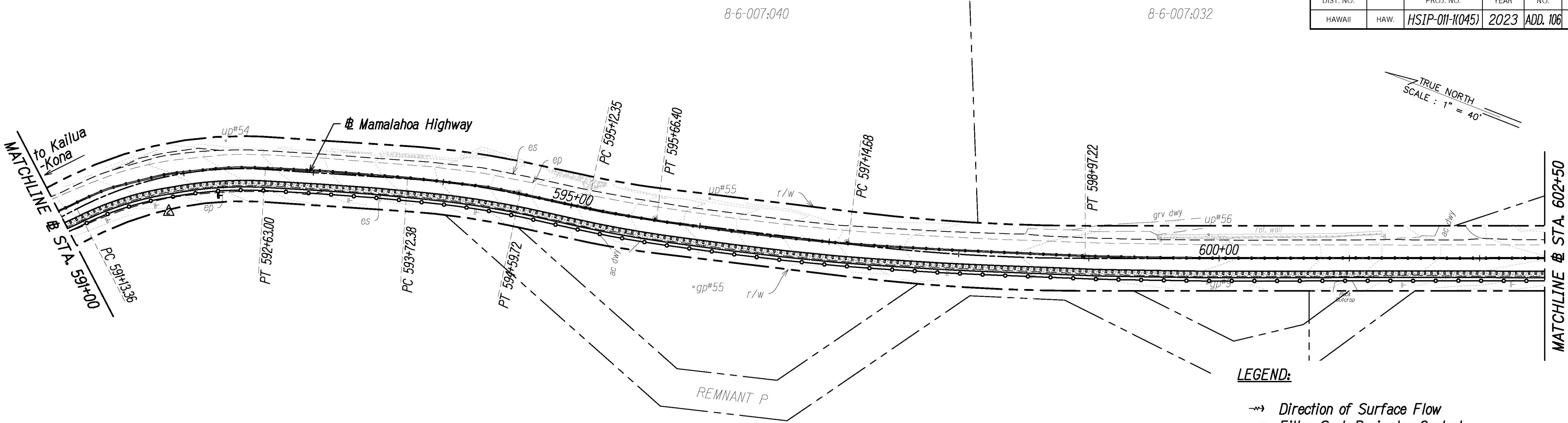
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10/23/23	BMPs Added
Date	Description
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
<b>EROSION AND SEDIMENT CONTROL PLAN</b>	
MAMALAHOA HIGHWAY SAFETY IMPROVEMENTS Vicinity of Haleili Street and Bruner Road Federal-Aid Project No. HSIP-011-1(045) Scale: 1"=40' Date: September 2023	
SHEET No. 17 OF 26 SHEETS	

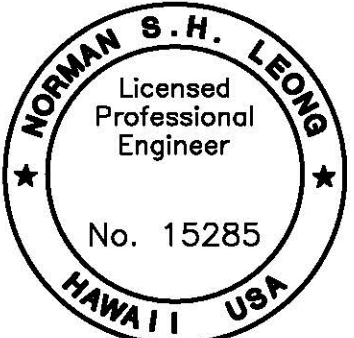
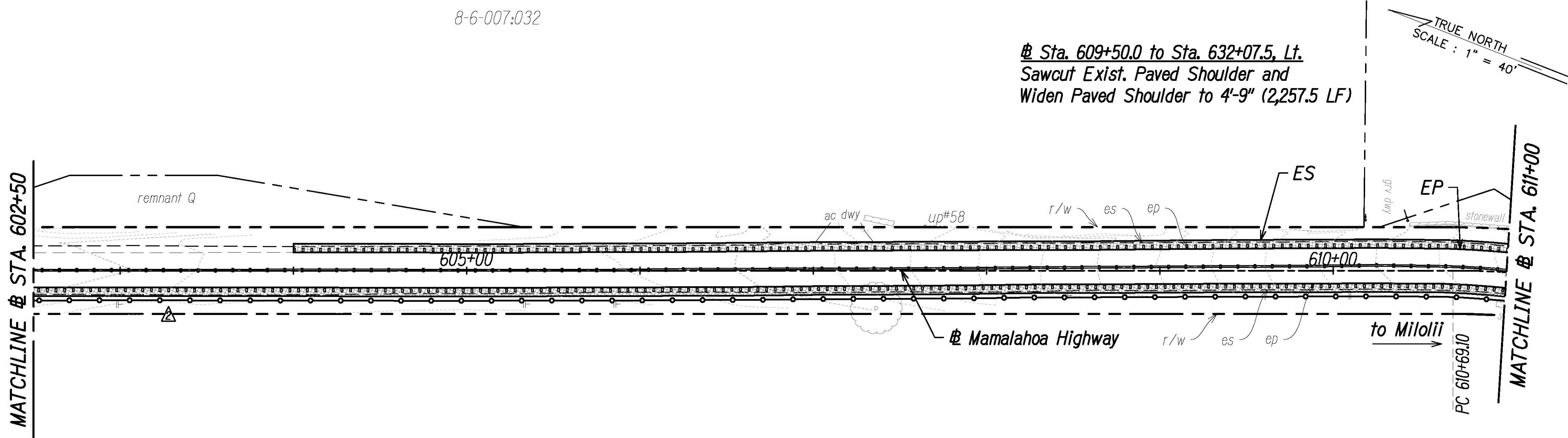


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-011-1(045)	2023	ADD. 106	114

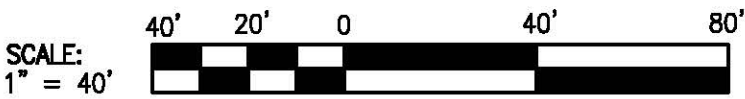


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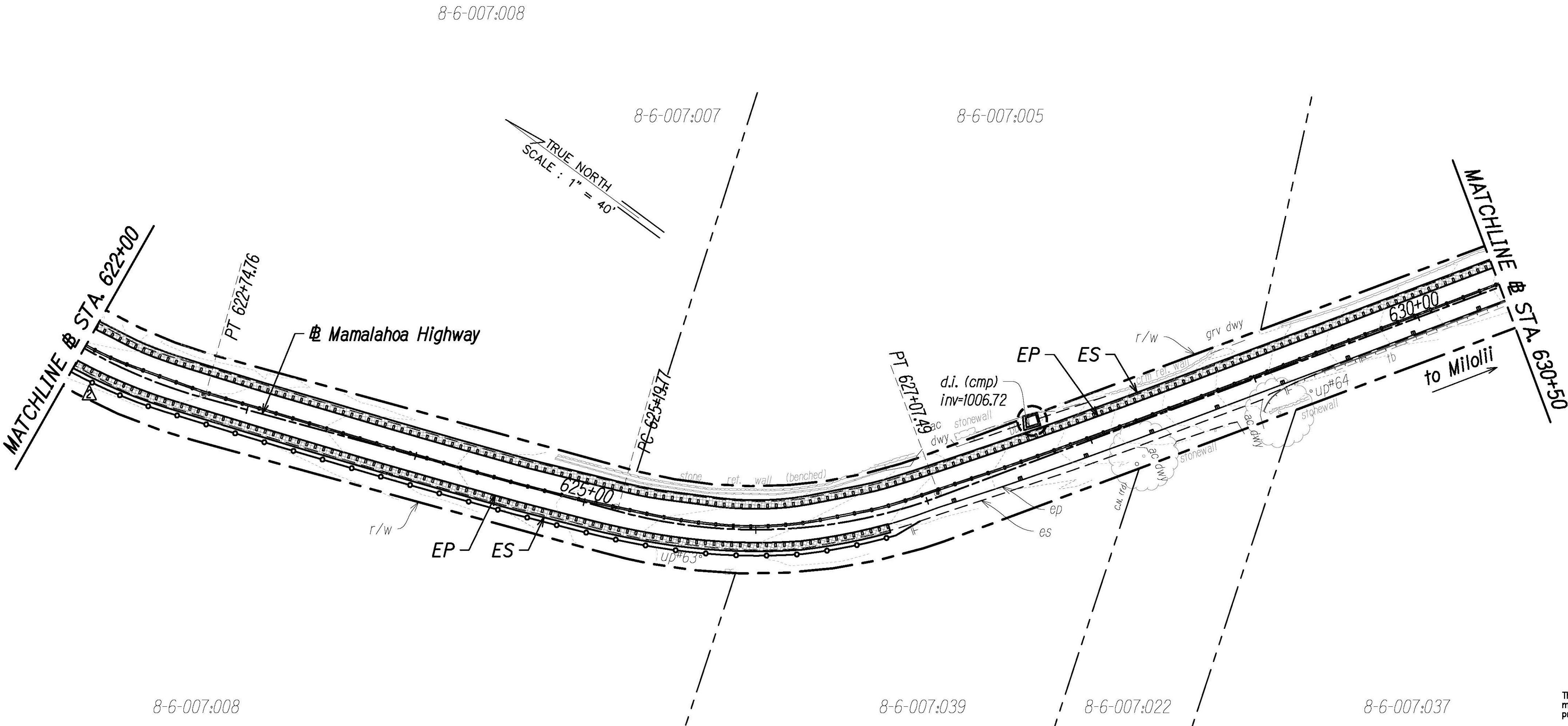
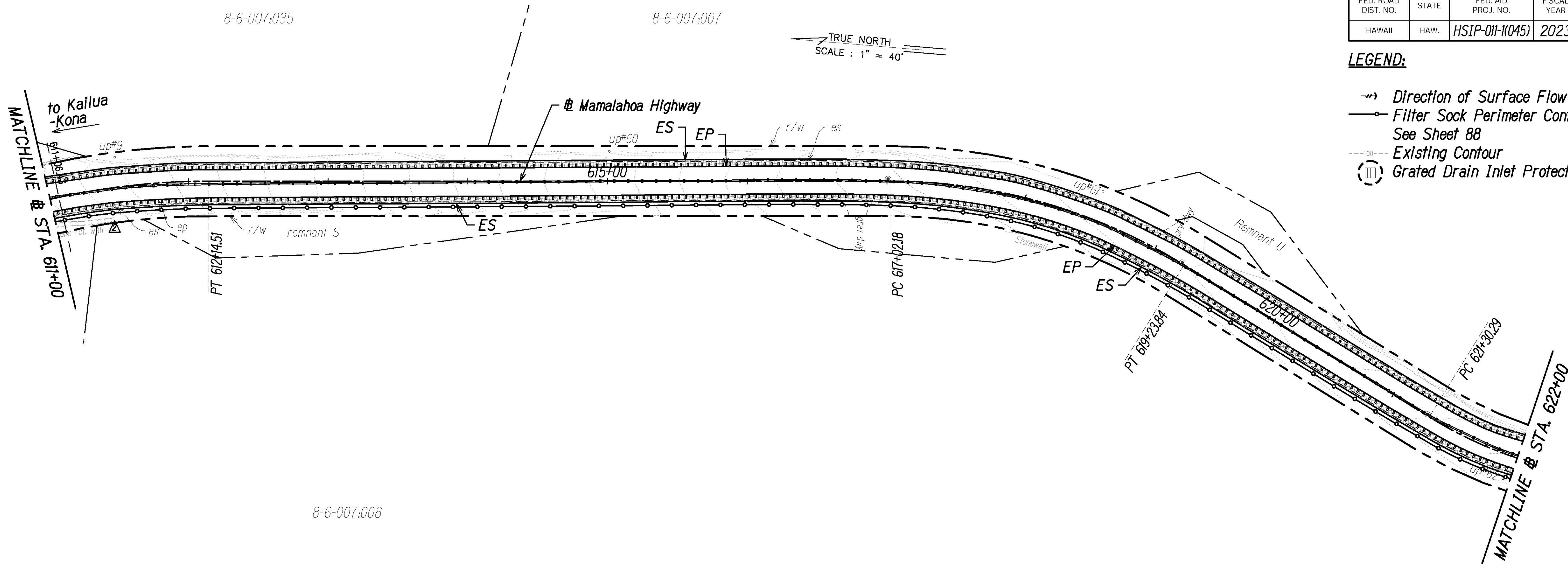
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SHEET No. 18 OF 26 SHEETS	

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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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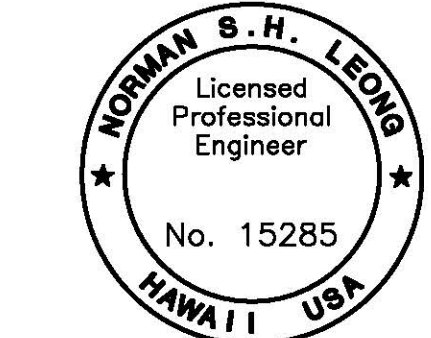
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  - Filter Sock Perimeter Control See Sheet 88
  - Existing Contour
  - Grated Drain Inlet Protection



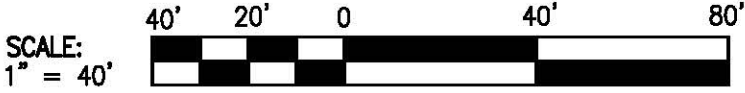
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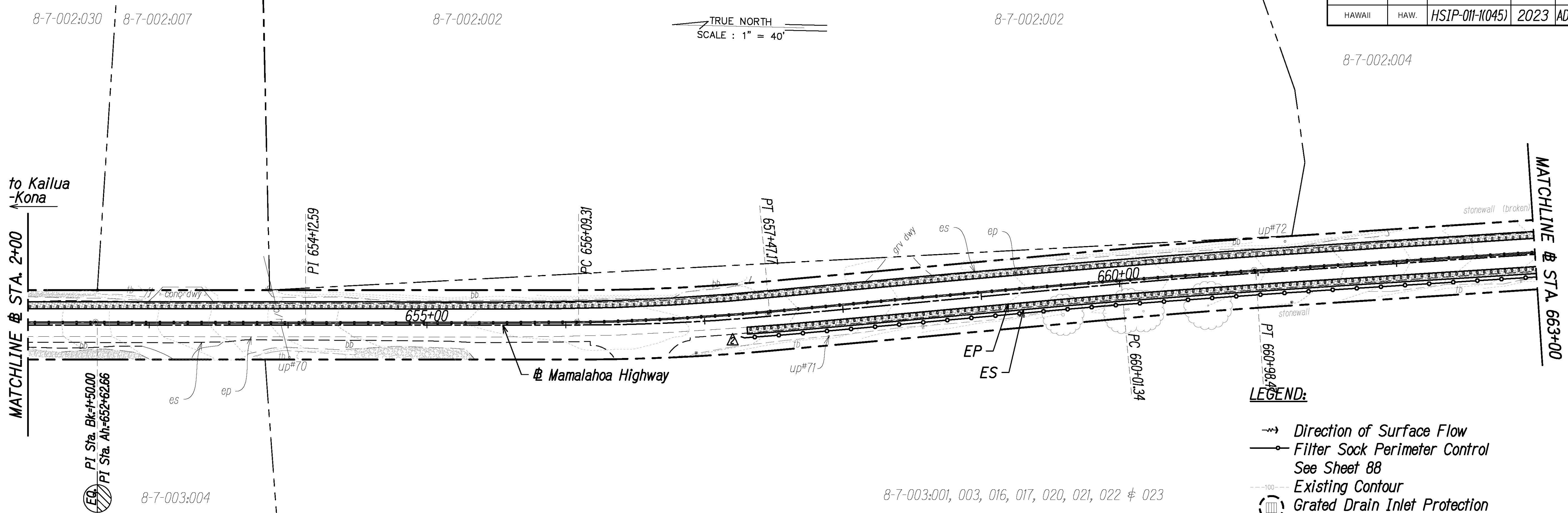
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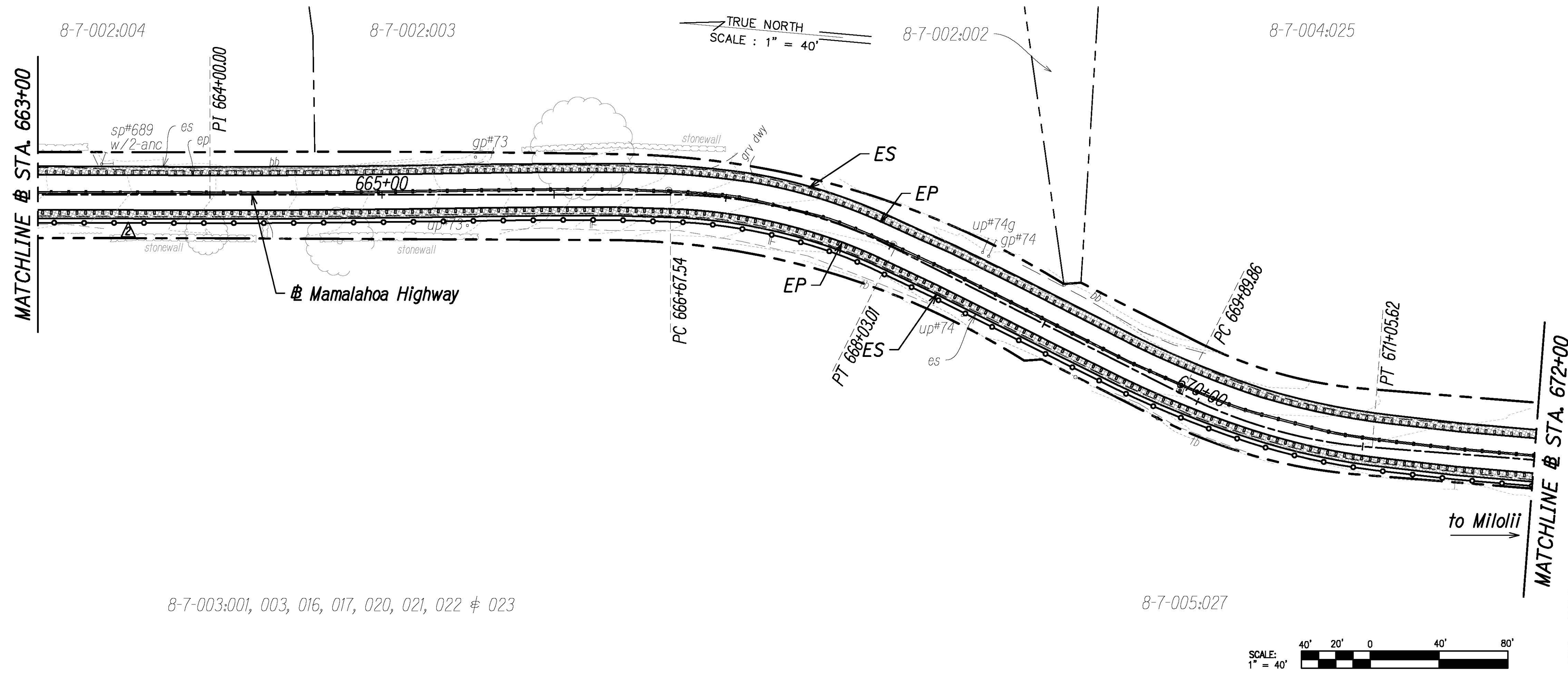


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**NORMAN S. H. LEONG**  
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HAWAII, USA

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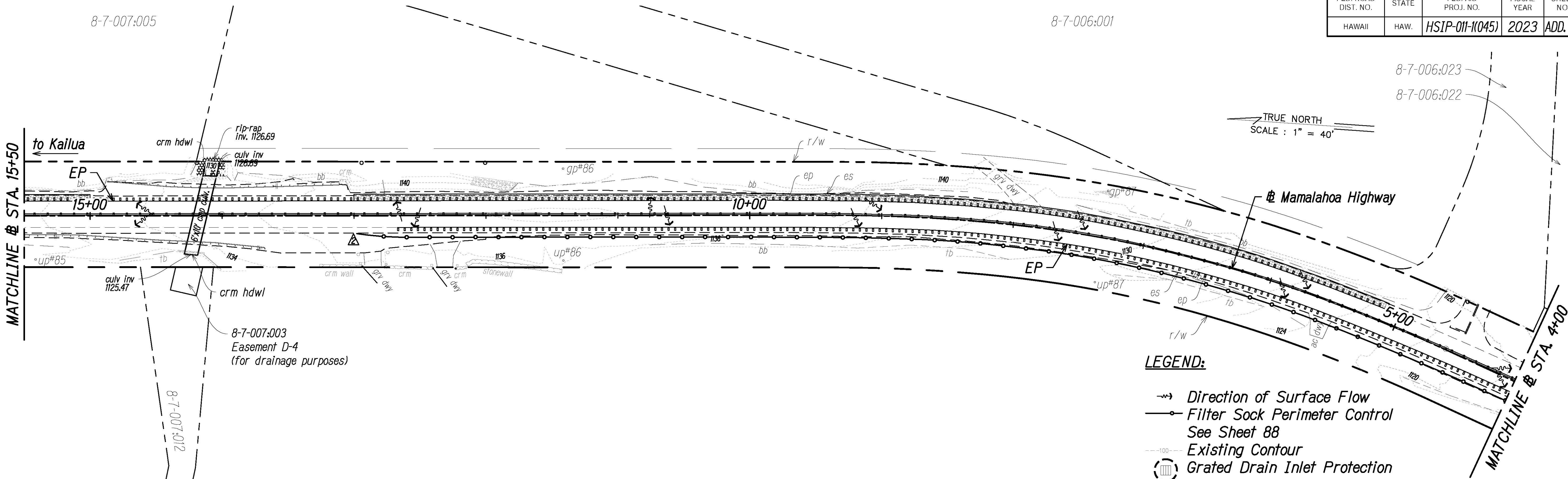
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SHEET No. 21 OF 26 SHEETS	

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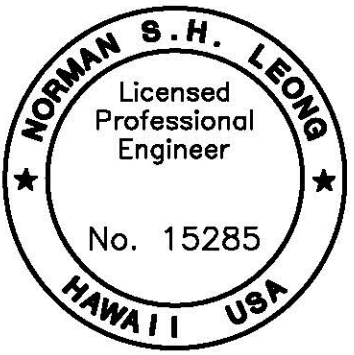
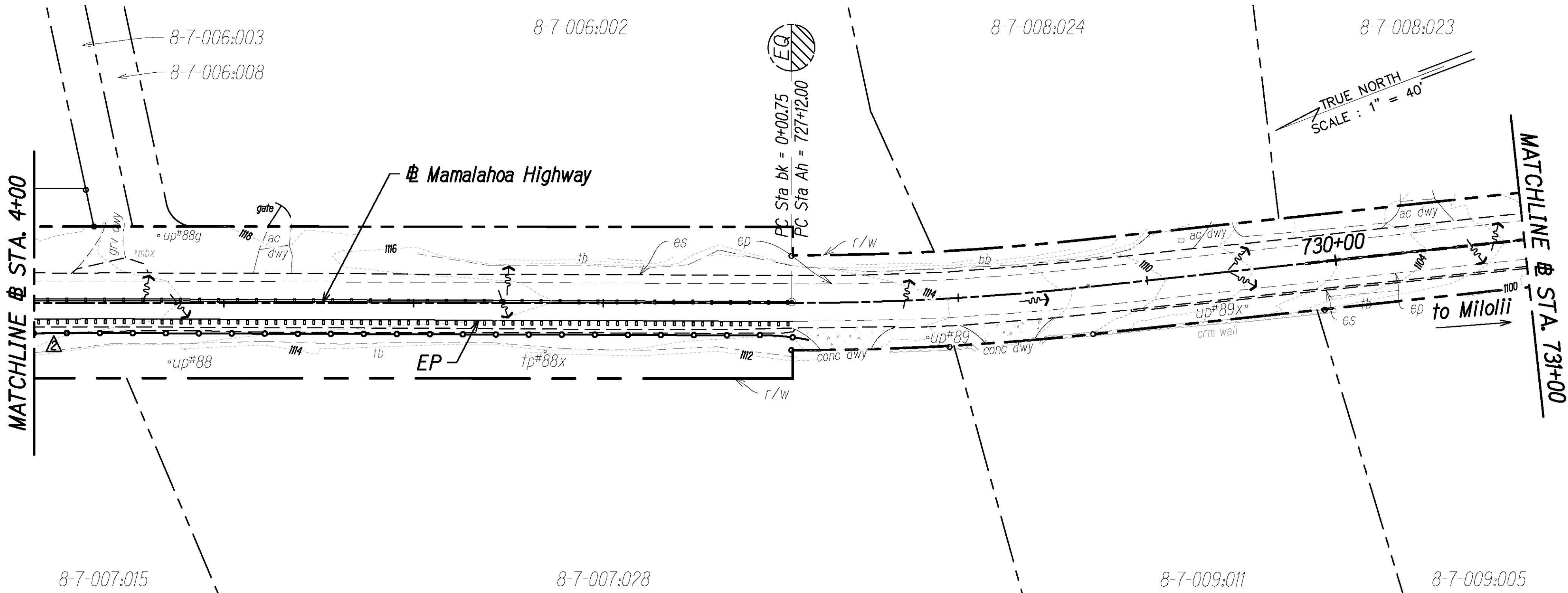
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