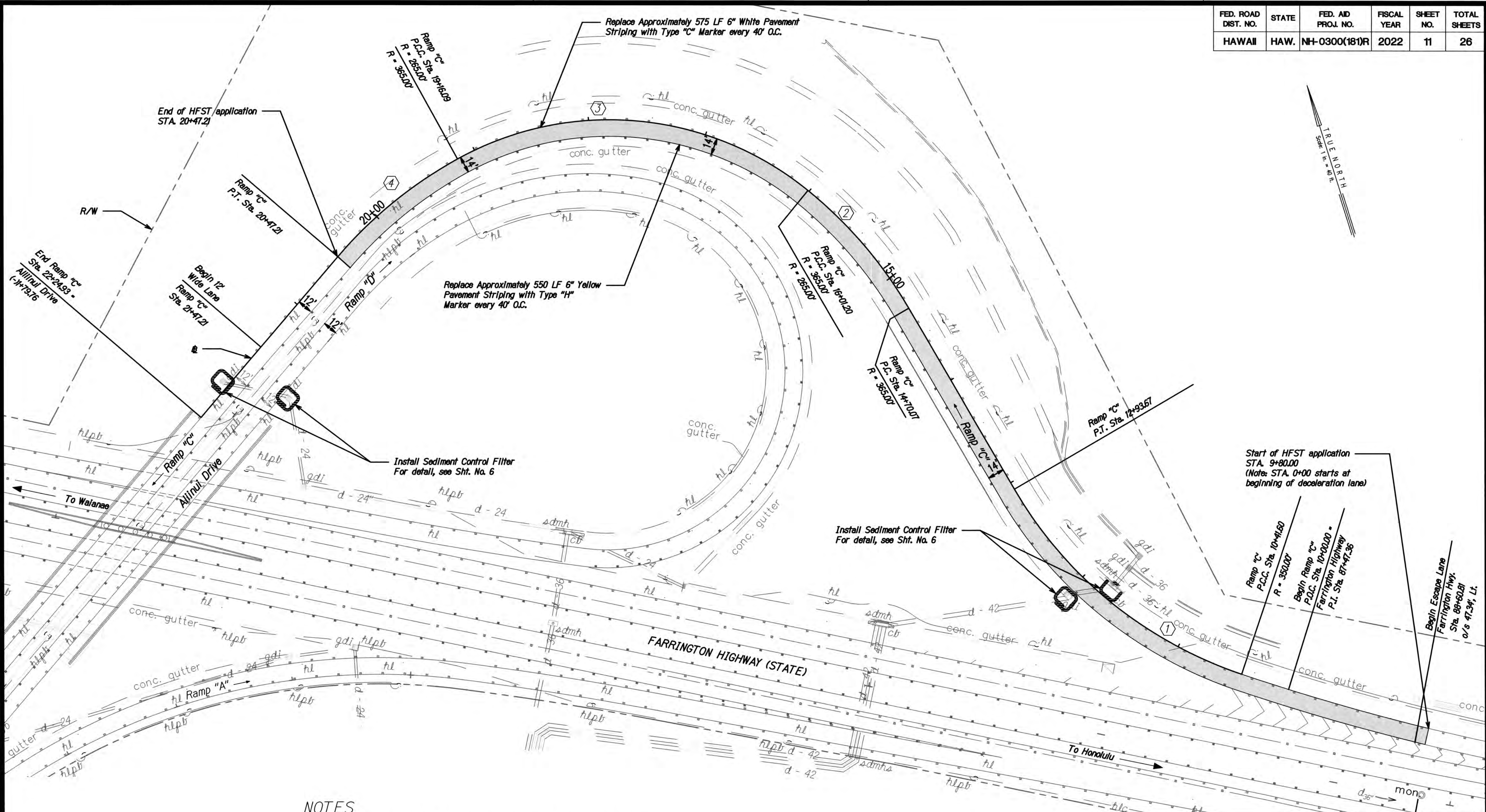


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(18)R	2022	11	26

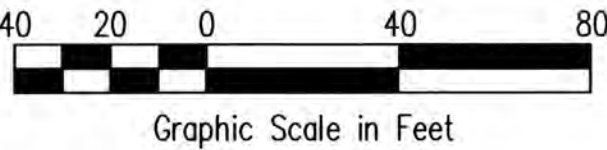


NOTES

- Remove all striping and RPMs within HFST applicable area before applying HFST.
- HFST shall be applied within limits of existing edge striping, per lane widths specified in plans.
- Asphalt and Concrete surfaces need to be properly prepared through use of appropriate abrasive cleaning and compressed air methods. Refer to ICRI standards for CSP and FHWA's Pavement Preservation Checklist Series #14 HFST.
- Restore all striping & RPMs in accordance with DOT Std. Plans TE-26 to TE-28A, and DOT memo HWY-TD 20-2.0150
- Sediment and Erosion Control BMP measures shown in the Contract Documents are minimum BMP requirements and do not constitute an acceptable and/or complete Sediment 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.

CURVE DATA				
	①	②	③	④
Δ	23°45'00"	23°45'00"	68°05'00"	20°35'00"
R	279.58'	270.38'	265.00'	365.00'
L	252.07'	112.08'	314.89'	131.13'
T	58.79'	56.86'	179.03'	66.28'

Ramp "C"
Sta. 9+80.00 to Sta. 20+47.21
Apply HFST to existing lane.
Lane width = 14 ft. Typ.
Total area of HFST Application = 35,080 SF



ANSON M. MURAYAMA
LICENSED PROFESSIONAL ENGINEER
No. 6975-C
HAWAII, U.S.A.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

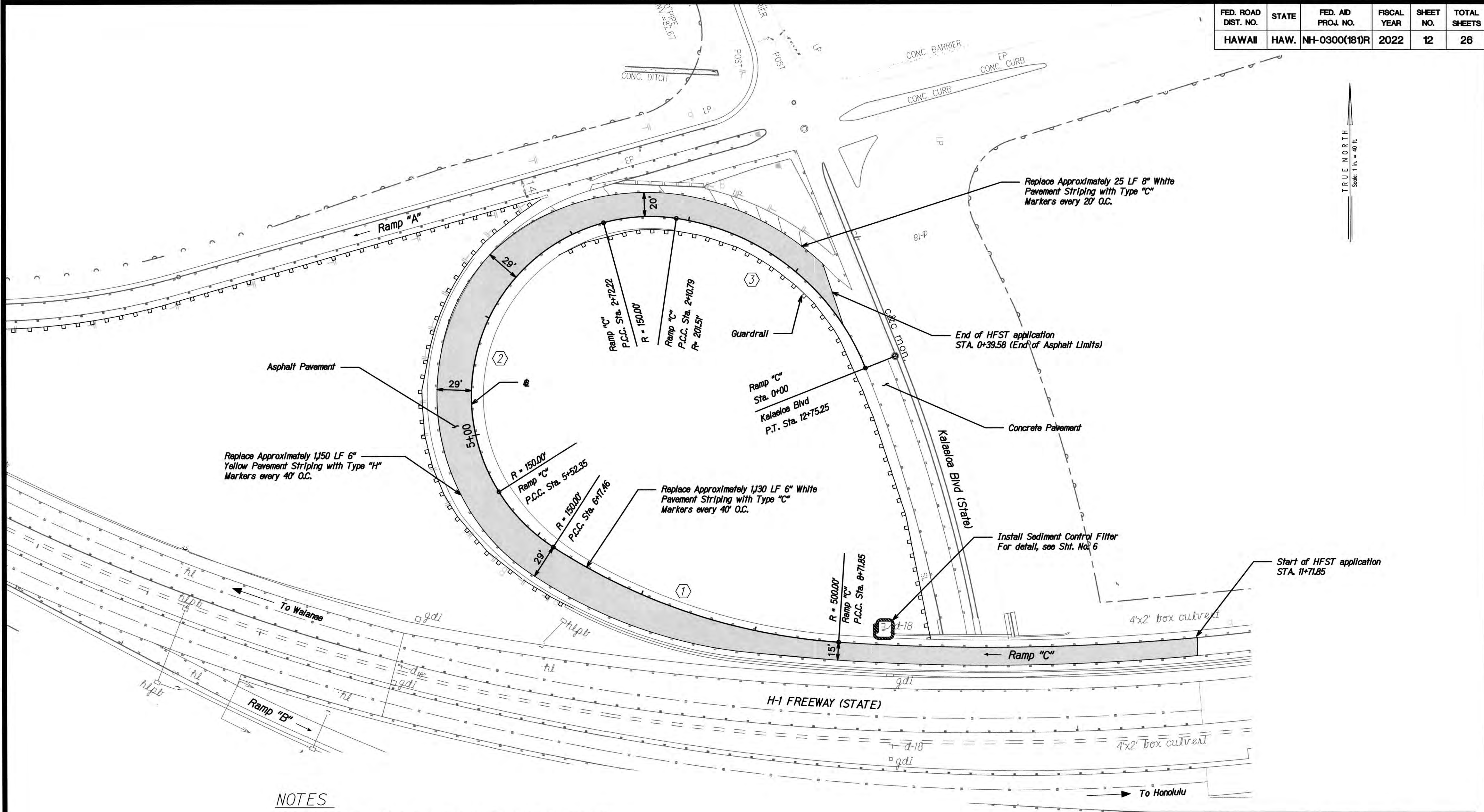
SITE PLAN-1
KO OLINA INTERCHANGE

HIGH FRICTION SURFACE TREATMENT INSTALLATION
AT VARIOUS LOCATIONS ON OAHU, ISLAND OF OAHU
FEDERAL AID PROJECT NO. NH-0300(18)R

Scale: 1 : 40 Date: DECEMBER, 2022

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. LICENSE EXPIRATION DATE: 04/30/24

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(181)R	2022	12	26

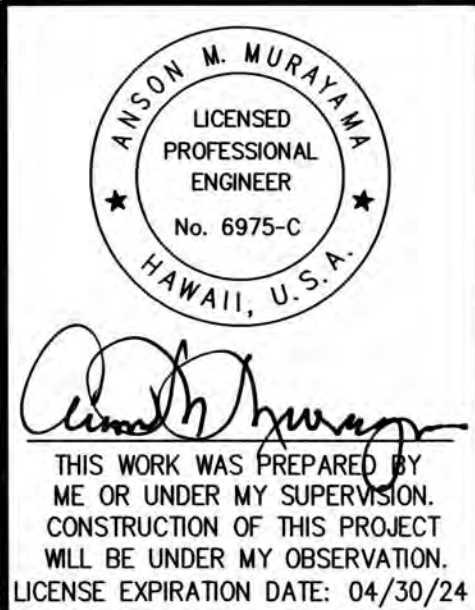
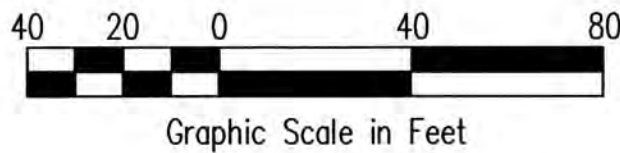


NOTES

1. Remove all striping and RPMs within HFST applicable area before applying HFST.
2. HFST shall be applied within limits of existing edge striping, per lane widths specified in plans.
3. Asphalt and Concrete surfaces need to be properly prepared through use of appropriate abrasive cleaning and compressed air methods. Refer to ICRI standards for CSP and FHWA's Pavement Preservation Checklist Series #14 HFST.
4. Restore all striping & RPMs in accordance with DOT Std. Plans TE-26 to TE-28A, and DOT memo HWY-TD 20-20150
5. Sediment and Erosion Control BMP measures shown in the Contract Documents are minimum BMP requirements and do not constitute an acceptable and/or complete Sediment 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.

CURVE DATA			
	①	②	③
Δ	29°09'02"	155°20'35"	43°44'40"
R	500.00'	150.00'	201.51'
T	65.00'	343.12'	40.44'
L	254.39'	406.68'	153.84'

Ramp "C"
Sta. 11+71.85 to End of Asphalt Limits
Apply HFST to existing lane.
Lane width = 15-29 ft., Typ.
Total area of HFST Application = 25,442 SF



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
SITE PLAN-2
PALAILAI INTERCHANGE

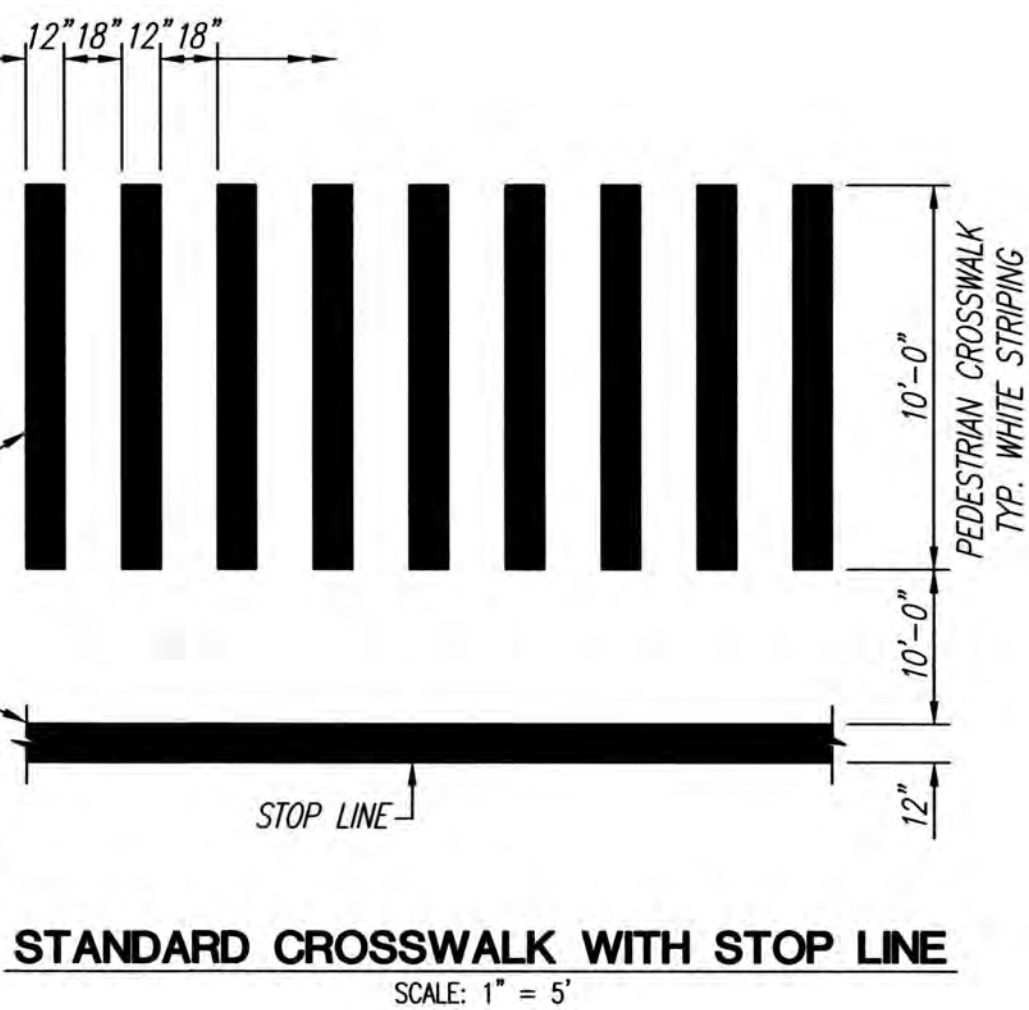
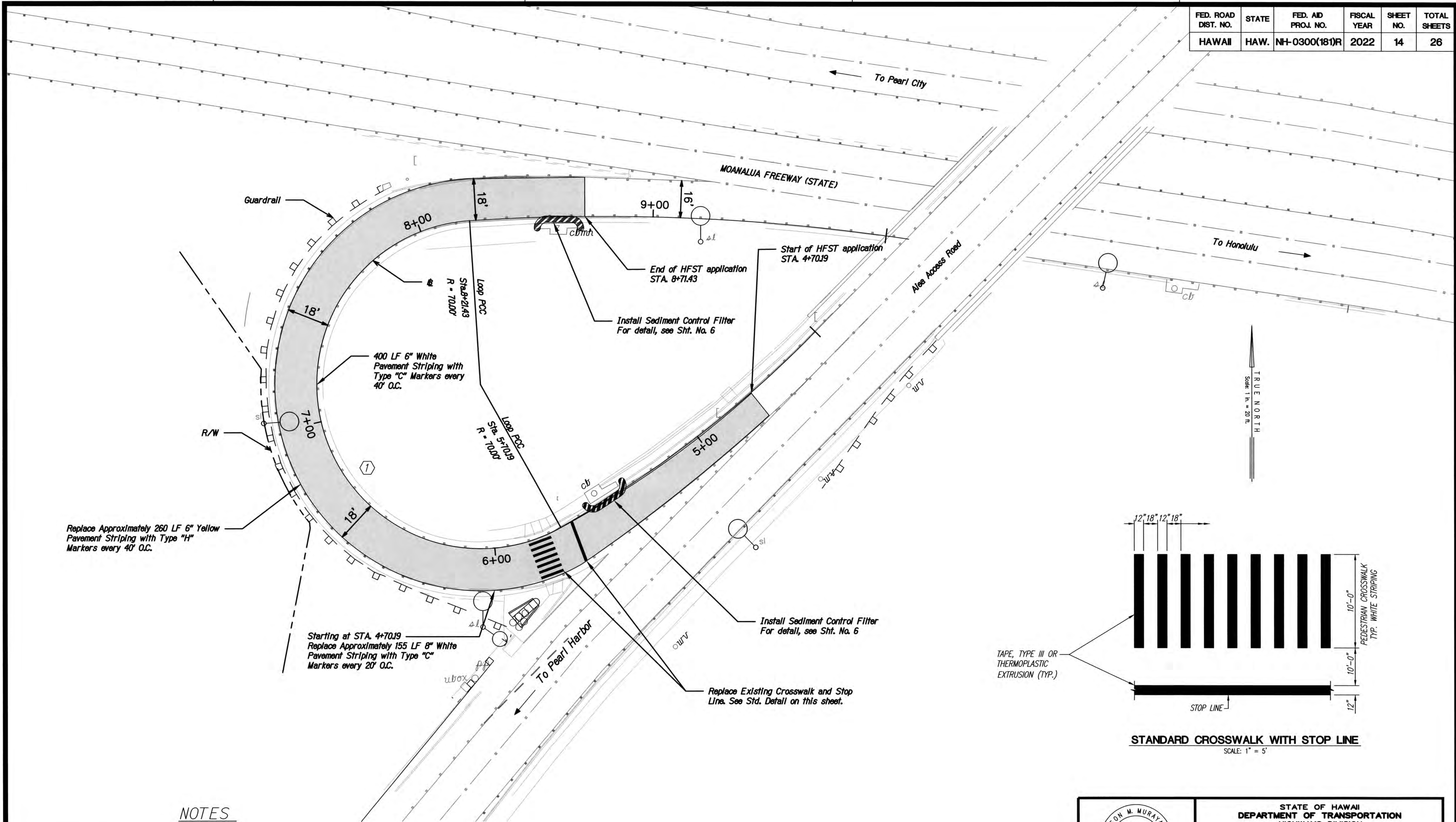
HIGH FRICTION SURFACE TREATMENT INSTALLATION

AT VARIOUS LOCATIONS ON OAHU, ISLAND OF OAHU
FEDERAL AID PROJECT NO. NH-0300(181)R

Scale: 1 : 40

Date: DECEMBER, 2022

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(181)R	2022	14	26

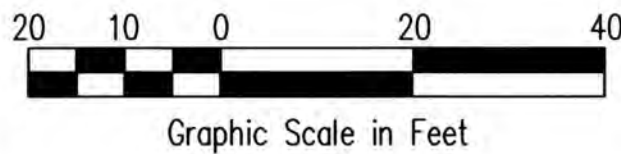


CURVE DATA	
(1)	
Δ	20°35'00"
R	70.00'
T	33.13
Ch	130.42'
Lc	136.00'

NOTES

- Remove all striping and RPMs within HFST applicable area before applying HFST.
- HFST shall be applied within limits of existing edge striping, per lane widths specified in plans.
- Asphalt and Concrete surfaces need to be properly prepared through use of appropriate abrasive cleaning and compressed air methods. Refer to ICRI standards for CSP and FHWA's Pavement Preservation Checklist Series #14 HFST.
- Restore all striping & RPMs in accordance with DOT Std. Plans TE-26 to TE-28A, and DOT memo HWY-TD 20-20150.
- Sediment and Erosion Control BMP measures shown in the Contract Documents are minimum BMP requirements and do not constitute an acceptable and/or complete Sediment 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.

Loop
Sta. 4+70.19 to Sta. 8+71.43
Apply HFST to existing lane.
Lane width = 18 ft., Typ.
Total area of HFST Application = 7,540 SF



ANSON M. MURAYAMA
LICENSED PROFESSIONAL ENGINEER
No. 6975-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. LICENSE EXPIRATION DATE: 04/30/24

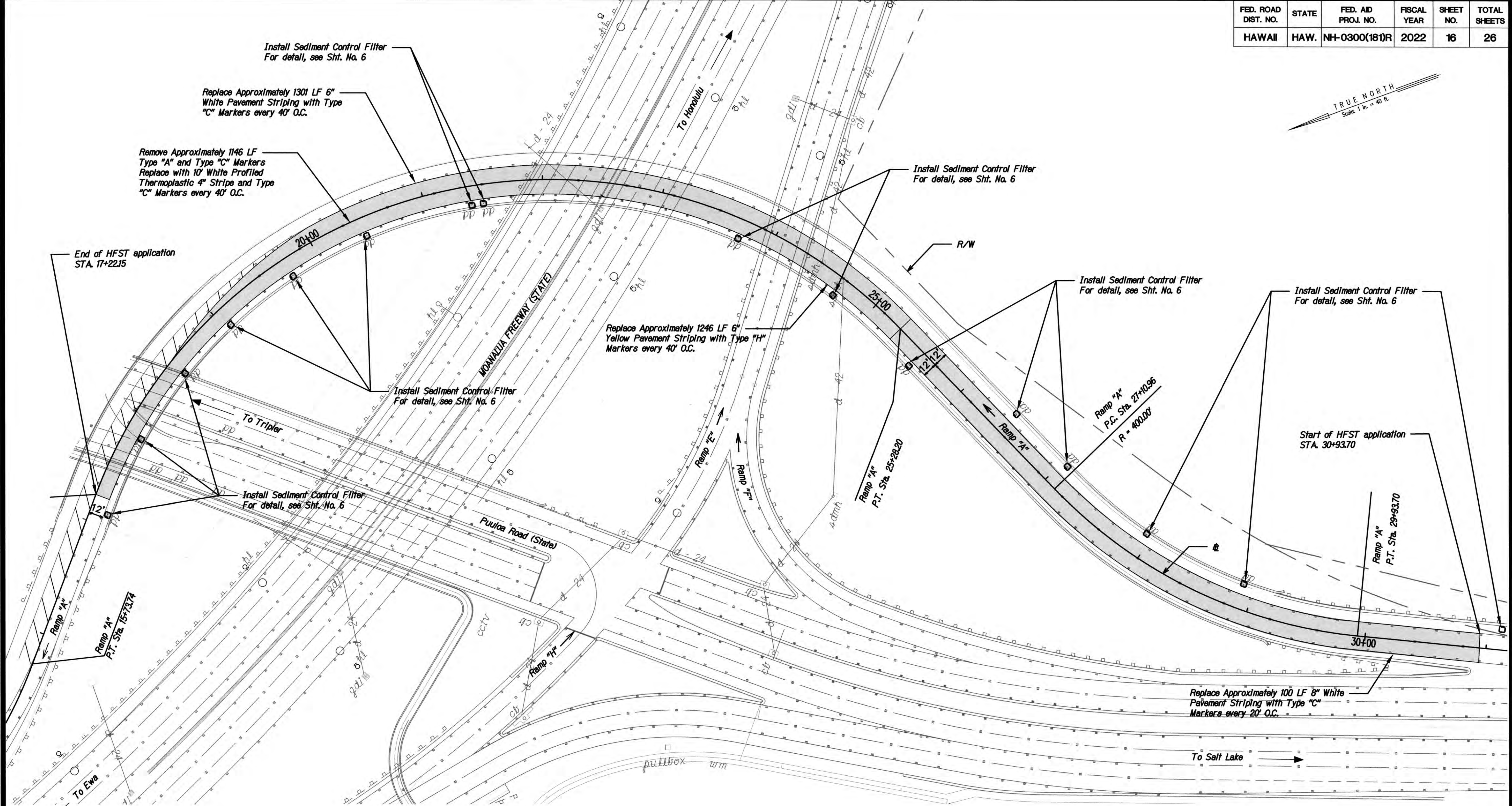
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SITE PLAN-4
STADIUM INTERCHANGE

HIGH FRICTION SURFACE TREATMENT INSTALLATION
AT VARIOUS LOCATIONS ON OAHU, ISLAND OF OAHU
FEDERAL AID PROJECT NO. NH-0300(181)R

Scale: 1 : 20 Date: DECEMBER, 2022

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(181)R	2022	16	26

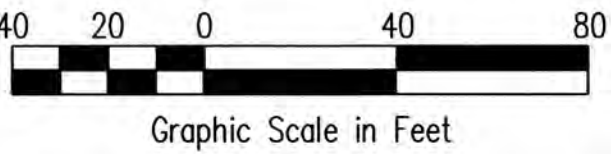


NOTES

1. Remove all striping and RPMs within HFST applicable area before applying HFST.
2. HFST shall be applied within limits of existing edge striping, per lane widths specified in plans.
3. Asphalt and Concrete surfaces need to be properly prepared through use of appropriate abrasive cleaning and compressed air methods. Refer to ICRI standards for CSP and FHWA's Pavement Preservation Checklist Series #14 HFST.
4. Restore all striping & RPMs in accordance with DOT Std. Plans TE-26 to TE-28A, and DOT memo HWY-TD 20-20150.
5. Sediment and Erosion Control BMP measures shown in the Contract Documents are minimum BMP requirements and do not constitute an acceptable and/or complete Sediment 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.

CURVE DATA		
	(1)	(2)
Δ	40°39'66"	115°00'00"
R	400.00'	388.00'
T	147.16'	609.04'
L	282.67'	781.86'

Ramp "A"
Sta. 17+22.15 to Sta. 30+93.70
Apply HFST to existing lane.
Lane width = 12-24 ft., Typ.
Total area of HFST Application = 30,425 SF



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. LICENSE EXPIRATION DATE: 04/30/24

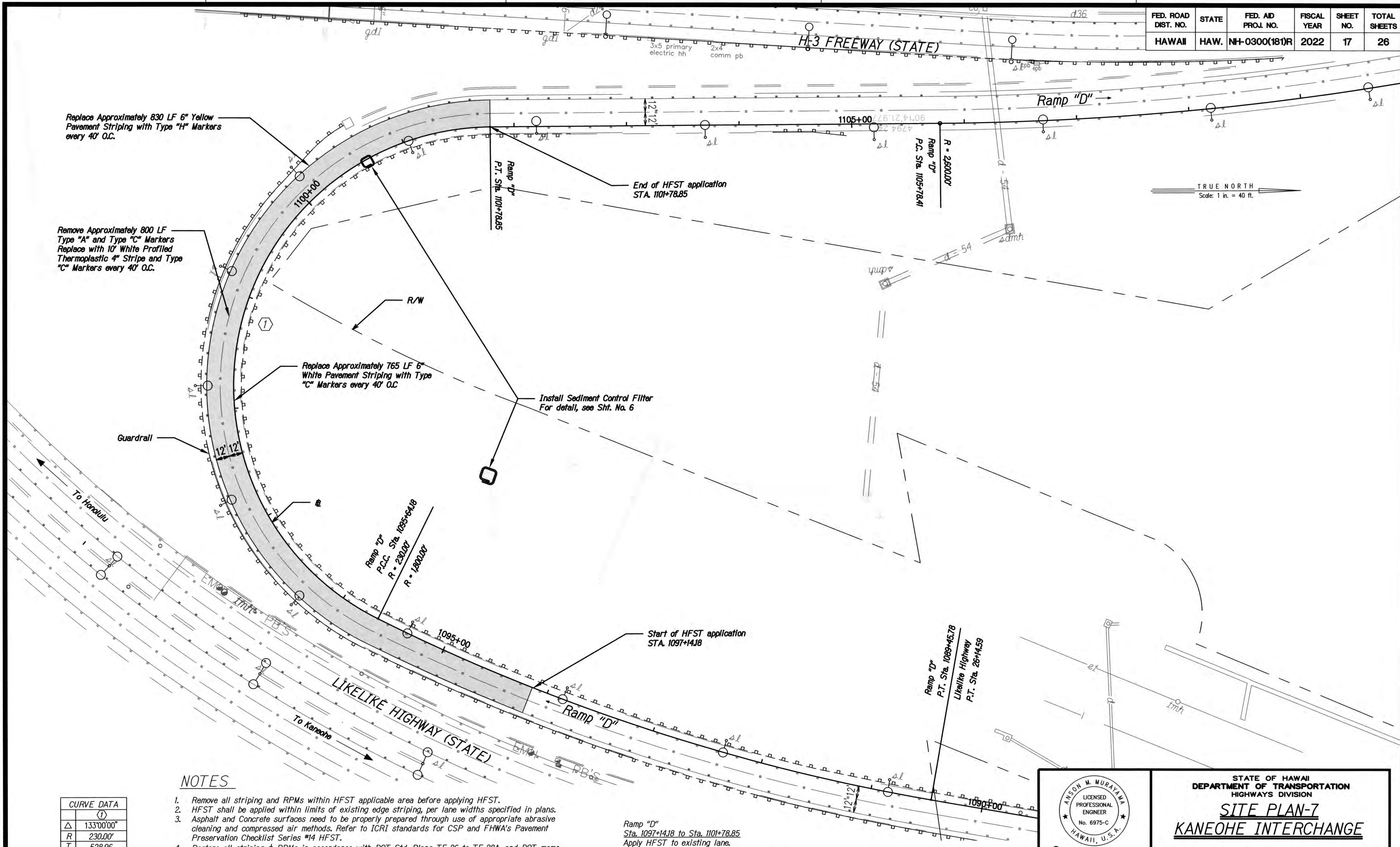
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SITE PLAN-6
PUULOA INTERCHANGE

HIGH FRICTION SURFACE TREATMENT INSTALLATION
AT VARIOUS LOCATIONS ON OAHU, ISLAND OF OAHU
FEDERAL AID PROJECT NO. NH-0300(181)R

Scale: 1 : 40 Date: DECEMBER, 2022

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(181)R	2022	17	26

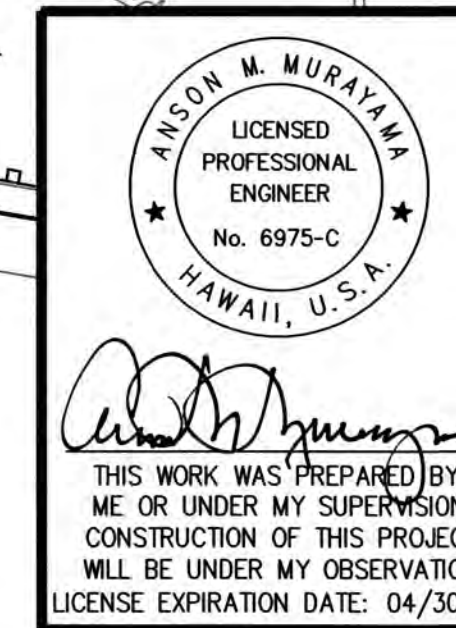
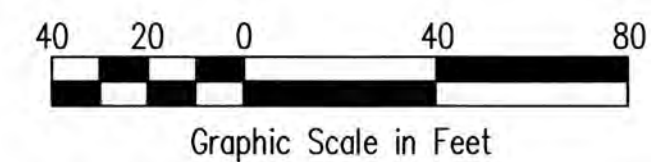


NOTES

1. Remove all striping and RPMs within HFST applicable area before applying HFST.
2. HFST shall be applied within limits of existing edge striping, per lane widths specified in plans.
3. Asphalt and Concrete surfaces need to be properly prepared through use of appropriate abrasive cleaning and compressed air methods. Refer to ICRI standards for CSP and FHWA's Pavement Preservation Checklist Series #14 HFST.
4. Restore all striping & RPMs in accordance with DOT Std. Plans TE-26 to TE-28A, and DOT memo HWY-TD 20-2.0150
5. Sediment and Erosion Control BMP measures shown in the Contract Documents are minimum BMP requirements and do not constitute an acceptable and/or complete Sediment 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.

CURVE DATA	
(1)	
Δ	133°00'00"
R	230.00'
T	528.96
Ch	447.42'
Lc	614.75'

Ramp "D"
Sta. 1097+14.18 to Sta. 1101+78.85
Apply HFST to existing lane.
Lane width = 12 ft., Typ.
Total area of HFST Application = 19,134 SF



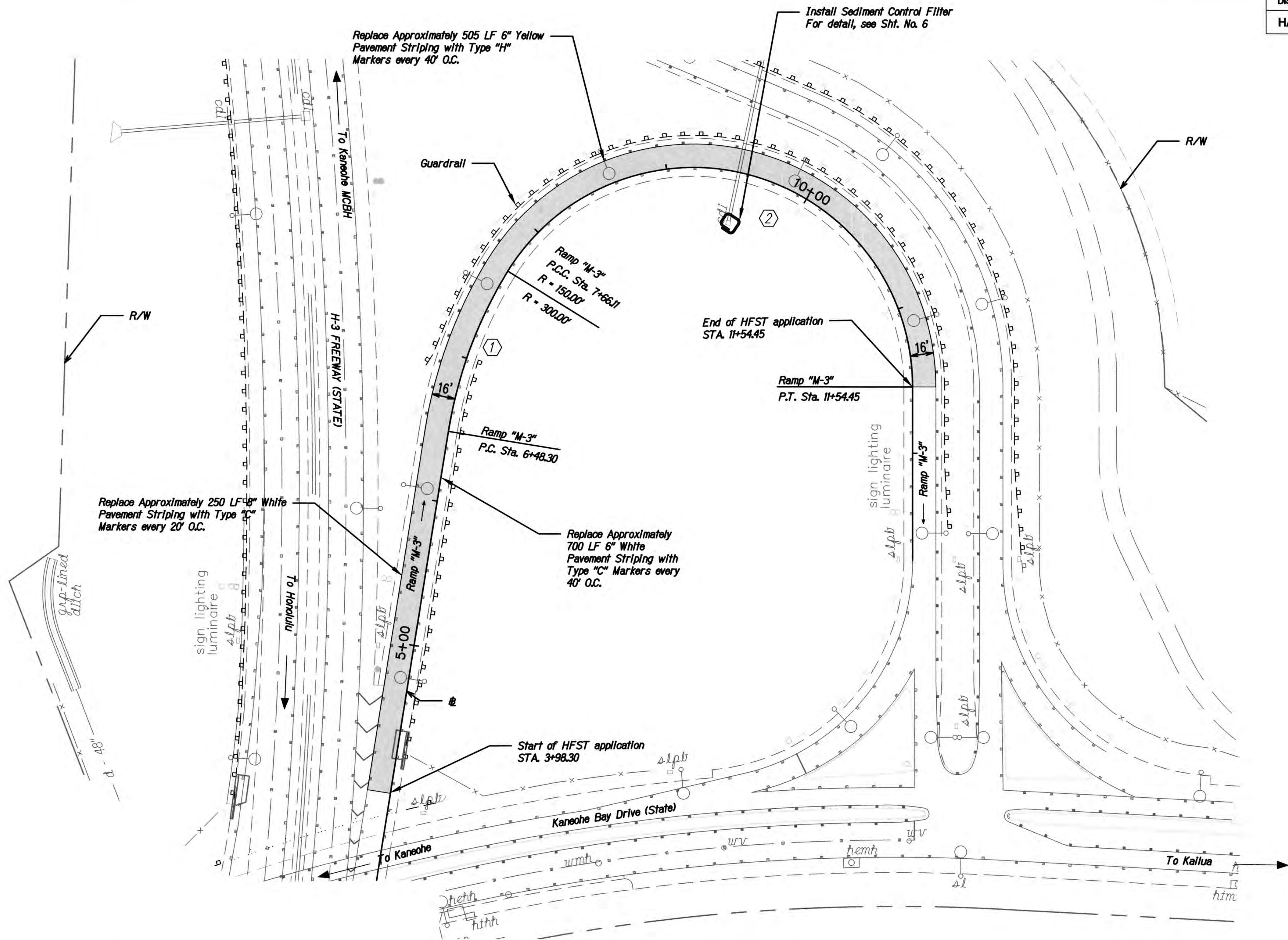
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SITE PLAN-7
KANEOHE INTERCHANGE

HIGH FRICTION SURFACE TREATMENT INSTALLATION
AT VARIOUS LOCATIONS ON OAHU, ISLAND OF OAHU
FEDERAL AID PROJECT NO. NH-0300(181)R

Scale: 1 : 40 Date: DECEMBER, 2022

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0300(181)R	2022	18	26

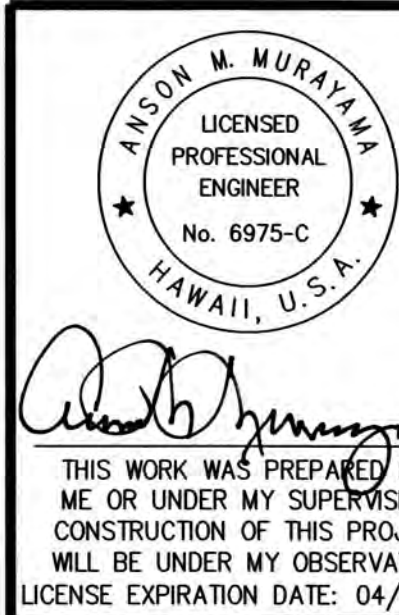


NOTES

- Remove all striping and RPMs within HFST applicable area before applying HFST.
- HFST shall be applied within limits of existing edge striping, per lane widths specified in plans.
- Asphalt and Concrete surfaces need to be properly prepared through use of appropriate abrasive cleaning and compressed air methods. Refer to ICRI standards for CSP and FHWA's Pavement Preservation Checklist Series #14 HFST.
- Restore all striping & RPMs in accordance with DOT Std. Plans TE-26 to TE-28A, and DOT memo HWY-TD 20-2.0150.
- Sediment and Erosion Control BMP measures shown in the Contract Documents are minimum BMP requirements and do not constitute an acceptable and/or complete Sediment 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.

CURVE DATA		
	①	②
Δ	22°30'00"	148°20'00"
R	300.00'	150.00'
T	59.67	528.91
Ch	117.05'	288.62'
Lc	117.81'	388.34'

Ramp "M-3"
Sta. 3+98.30 to Sta. 11+54.45
Apply HFST to existing lane.
Lane width = 16 ft, Typ.
Total area of HFST Application = 12,495 SF



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SITE PLAN-8
MOKAPU INTERCHANGE

HIGH FRICTION SURFACE TREATMENT INSTALLATION
AT VARIOUS LOCATIONS ON OAHU, ISLAND OF OAHU
FEDERAL AID PROJECT NO. NH-0300(181)R

Scale: 1 : 40 Date: DECEMBER, 2022