FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(77)	2020	ADD. 1	87

GENERAL NOTES

1. The scope of work for this project includes cold planing; resurfacing; reconstruction of weakened pavement areas; pavement marking and striping; guardrail improvements; adjusting utility manholes and boxes; drainage improvements; and installation of milled rumble strips.

2. The Contractor is reminded of the requirements of Subsection 105.16 - Subcontract Requirements, which requires him to perform work to not less than 30 percent of the total contract cost less deductible items. Non-compliance with this Subsection may be grounds for rejection of bid.

3. The Contractor's attention is directed to the following Sections: Subsection 104.11 - Utilities and Services; Subsection 107.06 - Contractor Duty Regarding Public Convenience; and Section 645 - Work Zone Traffic Control.

4. At the end of each day's work, the Contractor shall remove all equipment and other obstructions to permit free and safe passage of public traffic.

5. The existence and location of underground utilities, manholes, monuments and structures as shown on the plans are from the latest available data, but the accuracy is not guaranteed. The encountering of other obstacles during the course of work is possible. The Contractor shall tone for the exact locations and depths of all underground facilities, either shown on or omitted from the plans, in areas where work, such as the placement of sign posts, traffic signal conduits, etc. may affect these properties. Toning shall be considered incidental to the Various Contract Items and will not be paid for seperately. The Contractor shall be held liable for any damages incurred to the existing facilities and/or improvements as a result of his operations.

6. The Contractor shall notify, the Oahu Transit Services, Lowell Tom (848-4578) or Ed Sniffen (848-4571), two (2) weeks prior to construction, informing them of location, scope of work, and closure of Name of Highway and/or traffic lanes and dates of closure. (For Oahu projects only. For other islands, check with your local bus company.)

7. The Contractor shall notify the Engineer in writing, two (2) weeks prior to starting construction operations.

8. The Contractor shall obtain a Community Noise permit from the State Department of Health, Noise and Radiation Branch, 591 Ala Moana Blvd., Room 136, Honolulu, HI 96813-2498; Telephone No. 586-4700. This shall be considered incidental to the Various Contract Items and will not be paid for separately.

9. The Contractor shall indemnify and be solely responsible for the protection of adjacent properties, utilities and existing structures from damages due to construction. Repairing any damage shall be at the Contractor's own expense, to the satisfaction of the Engineer.

10. Contractor to restore all landscaped areas damaged according to Section 641, Hydro-Mulch Seeding. Grass restoration shall be considered incidental to Various Contract Items.

11. Earth swale shall be graded to drain. This work shall be considered incidental to Various Contract Items.

12. Smooth riding connections shall be constructed at all limits of project, including the beginning and end of project, connecting approaches, side streets, walkways and driveways as shown on the plans and/or as directed by the Engineer. This work shall be considered incidental to Asphalt Concrete and will not be paid for separately.

13. The Contractor shall clean and remove any accumulation of aggregates along the roadside within 10 feet of the edge of pavement. This work shall be considered incidental to Bulk of Work or the Various Contract Items and will not be paid for separately.

14. Removal and disposal of existing curb and gutter, curb, sidewalk and asphalt concrete pavement, curb, sidewalk and any debris shall be considered incidental to their respective bid items.

15. All saw cutting work shall be considered incidental to Roadway Excavation or Asphalt Concrete or Various Contract Items or their respective bid items.

16. Prior to placement of new aggregate subbase course, the existing subbase shall be compacted to a relative compaction greater than or equal to 95%.

17. The top of the Asphalt Concrete Base Course prior to placement of the new A.C. Pavement, Mix No. IV shall comply with the ten-foot straight edge requirement. The variation of the surface from a straight edge with two contacts with the surface, shall not exceed 3/16."

18. After completion of resurfacing, the Contractor and the Engineer will test for, and determine ponding areas (i.e. low spots, within the resurfaced area). It shall be the responsibility of the Contractor to correct and resurface and/or repair all such ponding areas. Corrective measures shall be approved by the Engineer.

19. The Contractor shall be advised of the following neighboring projects during this project's duration:

    Kamehameha Highway, Kaipapau Stream Bridge Replacement

    Kamehameha Highway, Kamananui Rd and Wilikina Rehabilitation, Vicnity of Weed Circle to Route H-2

    The Engineer will inform the Contractor when more information is known about the neighboring projects. The Contractor shall adjust trucking routes and loads accordingly. This cost shall be considered incidental to Various Contract Items.

    The Contractor shall be advised of legal size and weight limits for vehicles and equipment in HRS 291-34 and HRS 291-35. In compliance with the law, the operation or transport of any equipment or truck which exceeeds these limits shall apply for an Oversized and/or Overweight Vehicle permit through the Department of Transportation in accordance with HRS 291-36.

20. The Contractor shall provide and maintain for access to and from all existing driveways , sidewalks and ADA access routes, and side streets and cross streets at all times. This work shall be considered incidental to Sidewalk or the Various Contract Items and will not be paid for separately.

21. The Contractor shall provide and maintain a temporary pedestrian-safe and easily accessible route or detour with barricades in or near the work zone. This temporary route or detour shall be paved at least an inch of Asphalt Concrete Pavement, Mix No. IV or steel and/or wood planks and shall be American With Disabilities Act (ADA) compliant [This is only applicable if existing surface is dirt and/or if existing surface is non-ADA compliant.]. This work shall be incidental to Curb Ramps, or Sidewalk, or the Various Contract Items and will not be paid for separately.

22. The Contractor shall remove and dispose of all existing raised pavement markers, thermoplastic line markings, traffic tapes, and epoxy adhesives prior to the overlaying of Asphalt Concrete. This work shall be considered incidental to Asphalt Concrete Pavement, Mix No. IV and will not be paid for seperately.

23. No material and/or equipment shall be stockpiled or otherwise stored within the highway right-of-way except at locations designed in writing and approved by the Engineer. If use of location is approved by the engineer, the Contractor shall obtain a permit to use the property within the highway right-of-way from the Oahu District Office at Telephone No. 831-6712.

24. Probing for guardrail utilities shall be considered incidental to Guardrail Items and will not be paid for separately.

25. Removal of existing guardrail sections and end treatments shall be considered incidental to Various Guardrail Items and will not be paid for separately.

26. Drilling of holes shall be considered incidental to Various Guardrail Items and will not be paid for separately.

27. Temporary paving for recon areas to restore to original grades shall be removed during final cold planing and will not be paid for. Any temporary paving for recon areas not incorporated into the roadway pavement will not be paid for. This work shall be considered incidental to Cold Planing.

28. Any unfinished shoulder widening, metal railings, guardrails, and median drainage work shall not be left unshielded at the end of the work day. If such work is not completed within the work day, that section shall be shielded by NCHRP TL-2 rated portable physical barriers. The physical barriers shall be protected by end treatments in compliance with NCHRP TL-2 and the manufacturer's reccommendations/requirements and State Standard Plan TE-43. At the end of the work day, all travel lanes shall be open. The contractor shall develop a Traffic Control Plan to include these portable physical barriers and all necessary Traffic Control Devices and shall be approved by the Engineer. All work mentioned above including furnishing, installing, and maintaining physical barriers shall be considered incidental to Contract Item No. 645.1000 - Traffic Control and shall not be paid for separately.

29. The exact locations and limits or areas to be excavated, reconstructed and cold planed shall be determined in the field by Engineer.

30. All lanes shall be open to traffic during the hours from 6:30 P.M. to 8:00 A.M. No lane closures shall be allowed during the period of November 15th to January 1st for North Shore related surfing events. Individual lane closure length shall not exceed 1,000 L.F., excluding lane closure tapers at both approaches. Consecutive lane closures shall be separated by a minimum distance of 1-mile. Refer to Section 645 of the Special Provisions for additional details regarding lane closure hours, no lane closures, and allowable closure length.

    The Contractor shall close only one lane at a time, not exceeding more than 1000 feet excluding tapers. There shall be no more than 3 concurrent lane closures between the project limits spaced a minimum of 1 mile apart.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY X	X
NOTE BOOK	TRACED BY	
	DESIGNED BY X	
	QUANTITIES BY	
N:\mhdgn01	CHECKED BY	

DATE	REVISION
03/15/2021	⚠3 Revised Note 19
03/17/2021	⚠3 Revised Note 19
05/27/2021	⚠3 Revised Note 30

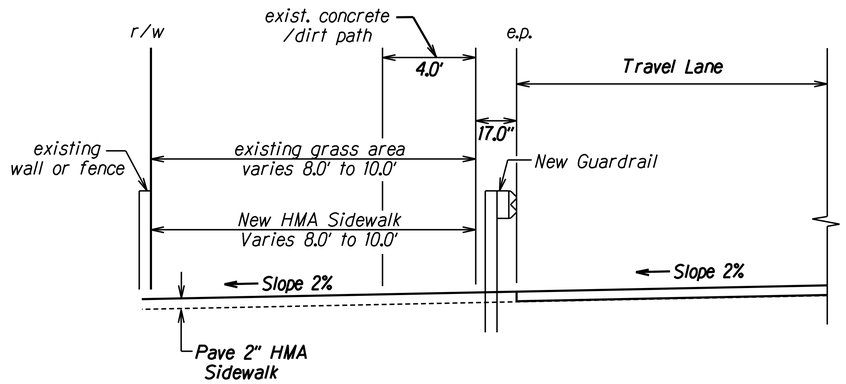
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES & LEGEND

KAMEHAMEHA HIGHWAY REHABILITATION
Vicinity of Kapuhi Street to Dairy Road
Federal Aid Project No. NH-083-1(77)

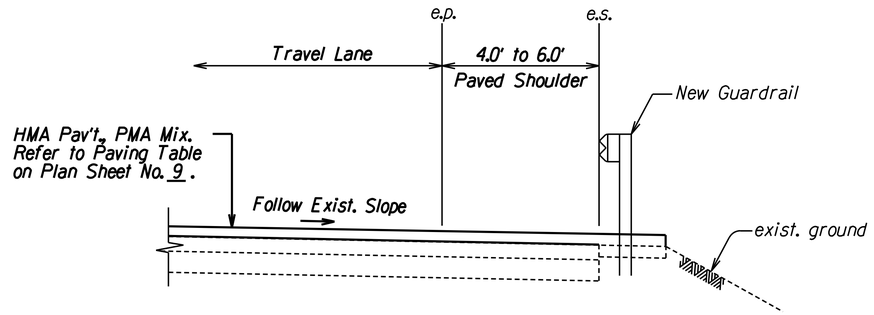
Date: June, 2020

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(77)	2021	10	87

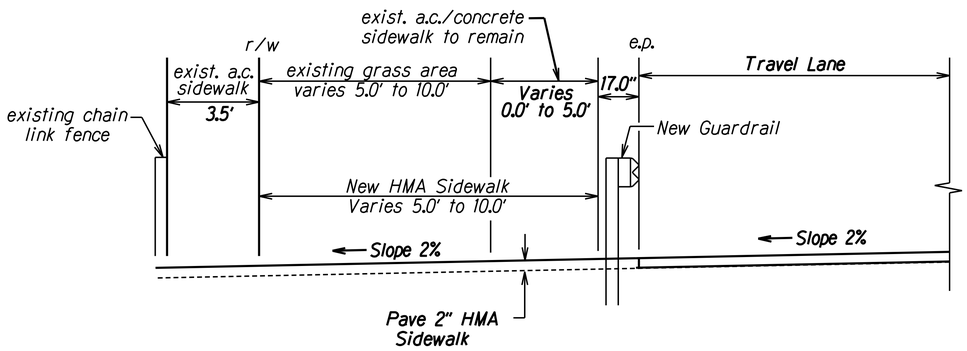


℄ Sta. 316+58± to ℄ Sta. 318+04± O/S 16.0' Lt.
HMA Sidewalk Detail
Not to Scale

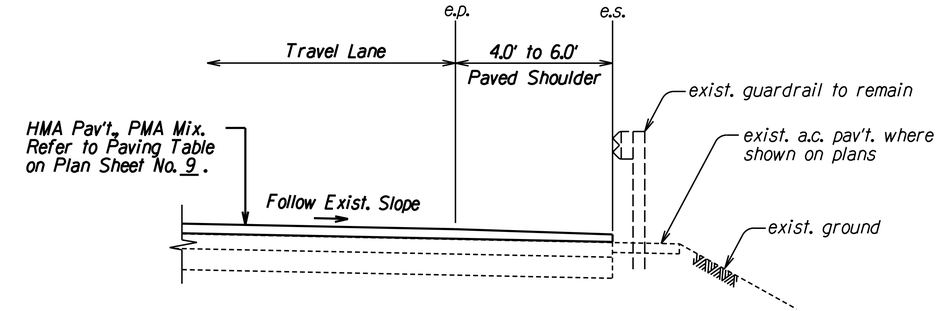
Bed Course shall be considered incidental to HMA Sidewalk or the Various Contract Items and shall not be paid seperately



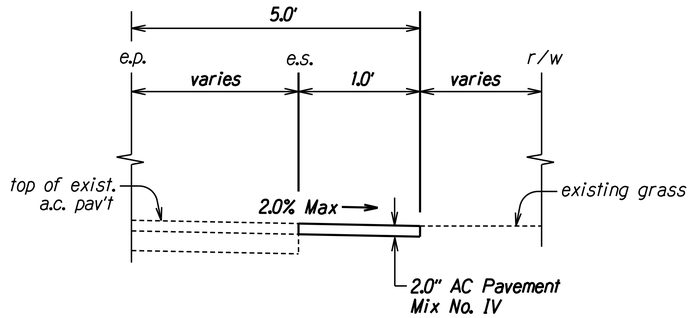
RESURFACING AT NEW GUARDRAIL LOCATIONS
Not to Scale



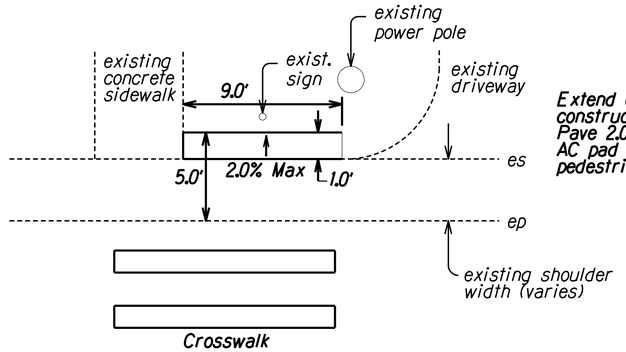
℄ Sta. 319+07± to ℄ Sta. 319+97± O/S 12' Lt.
HMA Sidewalk Detail
Not to Scale



RESURFACING AT EXISTING GUARDRAIL LOCATIONS
Not to Scale



SHOULDER EXTENSION DETAIL (CROSS SECTION)
AT ℄ Sta. 290+19± TO ℄ Sta. 290+28± Rt.
Scale: N.T.S.



Extend existing shoulder from E.S. to construct 9'x1' AC pad.
Pave 2.0" AC Mix No. IV for extension.
AC pad shall be aligned to existing pedestrian sidewalk.

SHOULDER EXTENSION DETAIL (PLAN VIEW)
AT ℄ Sta. 290+19± TO ℄ Sta. 290+28± Rt.
Scale: N.T.S.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE 2/19
	DRAWN BY X	
NOTE BOOK	TRACED BY X	
	DESIGNED BY X	
	QUANTITIES BY	
	CHECKED BY	

DATE	REVISION
05/27/2021	⚠ Revised Resurfacing at GR Details and HMA Sidewalk Details

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

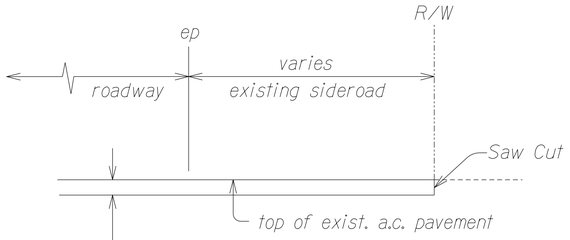
TYPICAL SECTIONS

KAMEHAMEHA HIGHWAY REHABILITATION
Vicinity of Kapuhi Street to Dairy Road
Federal Aid Project No. NH-083-1-(77)

Scale: NTS Date: June, 2020

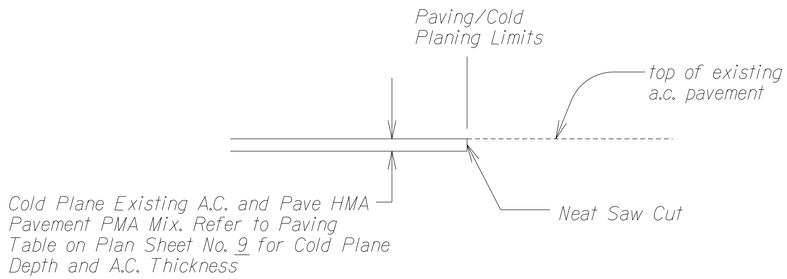
SHEET No. 2 OF 3 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(77)	2021	11	87



DETAIL OF PAVING AT PAVED SIDEROADS

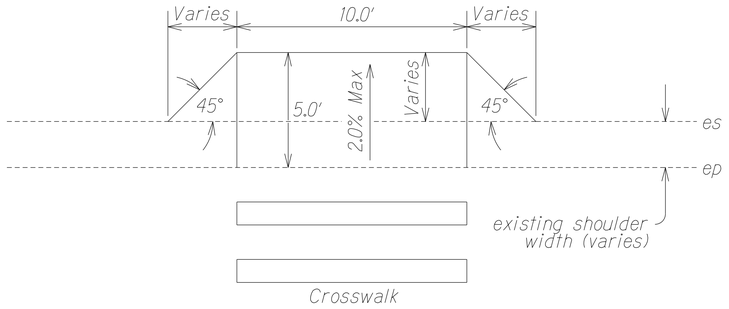
Scale: N.T.S.



SMOOTH RIDING CONNECTION DETAIL AT PAVING/COLD PLANING LIMITS. (COLD PLANE AREAS)

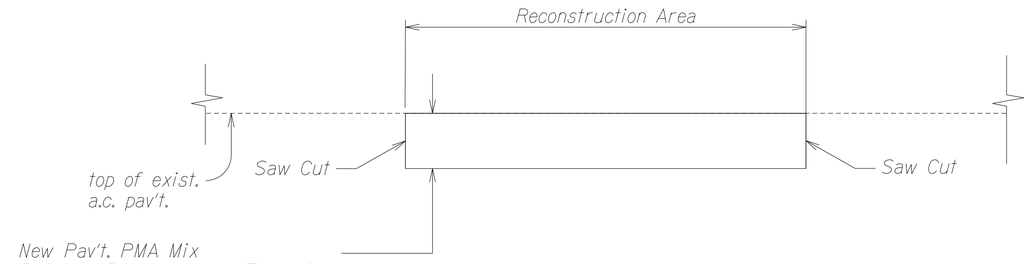
Scale: N.T.S.

Extend existing shoulder from E.S. to construct 10'x5' AC pad with 45° tapers. Pave 2.0" AC Mix No. IV for extension. Taper both sides of pad at 45° to meet existing E.S.. AC pad shall be aligned to existing pedestrian sidewalk.



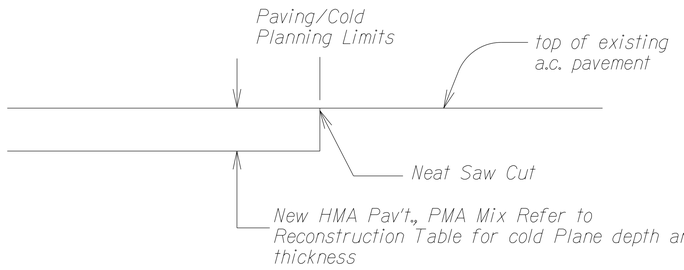
WHEEL CHAIR TURNING PAD DETAIL

Scale: N.T.S.



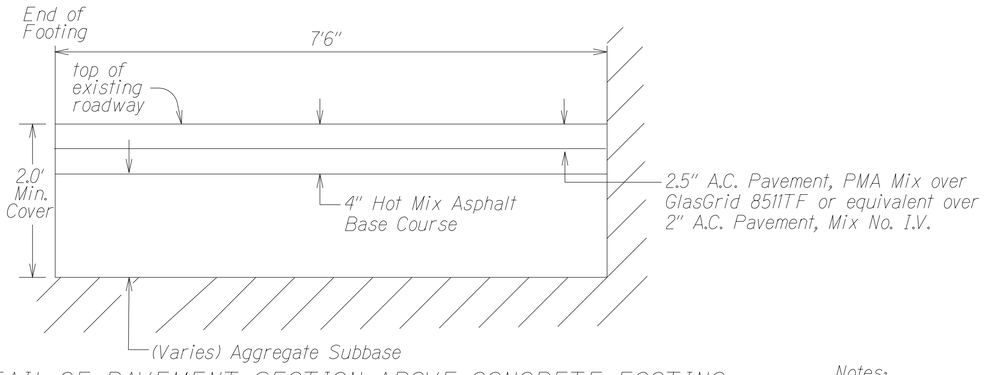
A.C. PAVEMENT RECONSTRUCTION DETAIL

Scale: N.T.S.



SMOOTH RIDING CONNECTION DETAIL AT PAVING/COLD PLANNING LIMITS. (RECONSTRUCTION AREAS)

Scale: N.T.S.



DETAIL OF PAVEMENT SECTION ABOVE CONCRETE FOOTING FOR CULVERT AT ℄ STA. 337+98.50

Scale: N.T.S.

Reconstruction Table

Cold Plane Depth	6.5"
Paving Thickness	2"
Paving Grid	Glas Grid 8511TF
Paving Thickness	2"
Paving Grid	Glas Grid 8511TF
Paving Thickness	2.5"

Notes:

1. Refer to Bridge Plan Sheets Q4 - Q6 for Culvert and Footing Details.
2. Pavement Section Length is 36 L.F. as Shown on Plan Sheet Q4 (Total Length of Concrete Footing).

ORIGINAL PLAN

NOTE BOOK No. ____

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE

DATE	REVISION
05/25/2021	⚠1 Revised All Details

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETAILS

KAMEHAMEHA HIGHWAY REHABILITATION
Vicinity of Kapuhi Street to Dairy Road
Federal Aid Project No. NH-083-1-(77)

Scale: NTS Date: June 2020

SHEET No. 3 OF 3 SHEETS

ADD. 4

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(77)	2021	22	87

℄ Sta. 202+31.22± to ℄ Sta. 203+81.65± Lt.
Do Not Remove Guardrail before HECO Utility Poles Located at ℄ Sta. 203.07 to ℄ Sta. 204+65.
Use Obstruction Installation for Power Poles.

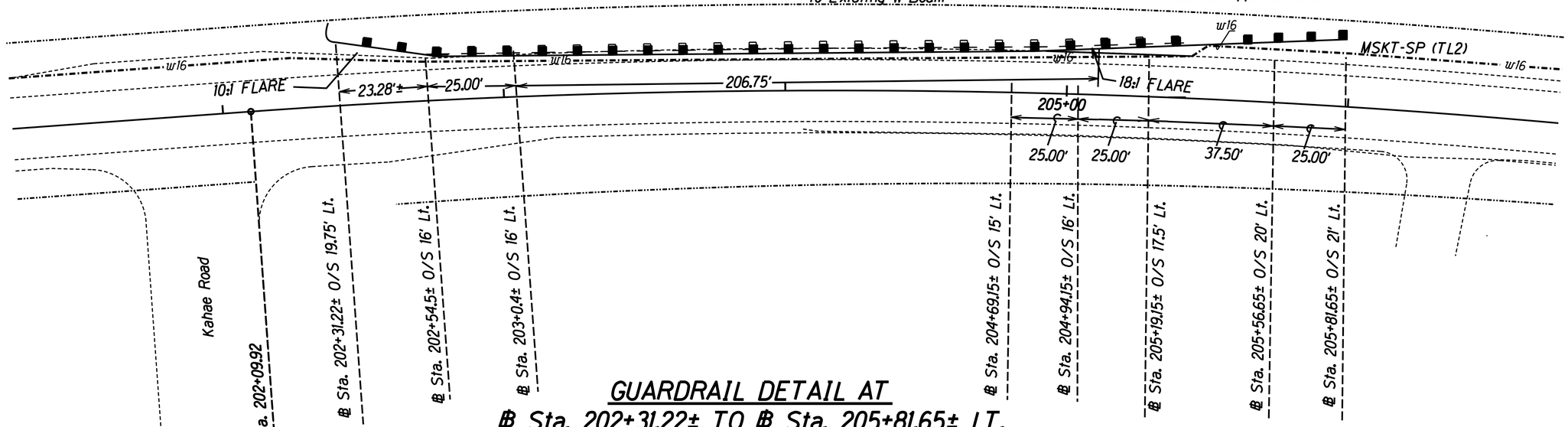
TRUE NORTH
SCALE : 1" = 40'

℄ Sta. 202+31.22± to ℄ Sta. 203+81.65± Lt.
Transition Existing W-Beam to Strong Post Thrie Beam Guardrail. Install MSKT-SP TL-2 or Equivalent (1 Ea.) at Trailing End.

℄ Sta. 203+6.65± to ℄ Sta. 204+56.65± Lt.
Transition Existing W-Beam to Strong Post Thrie Beam. Install 100.00 L.F. Strong Post Thrie Beam Guardrail (8' Posts) and Transition from Strong Post Thrie Beam to Existing W-Beam

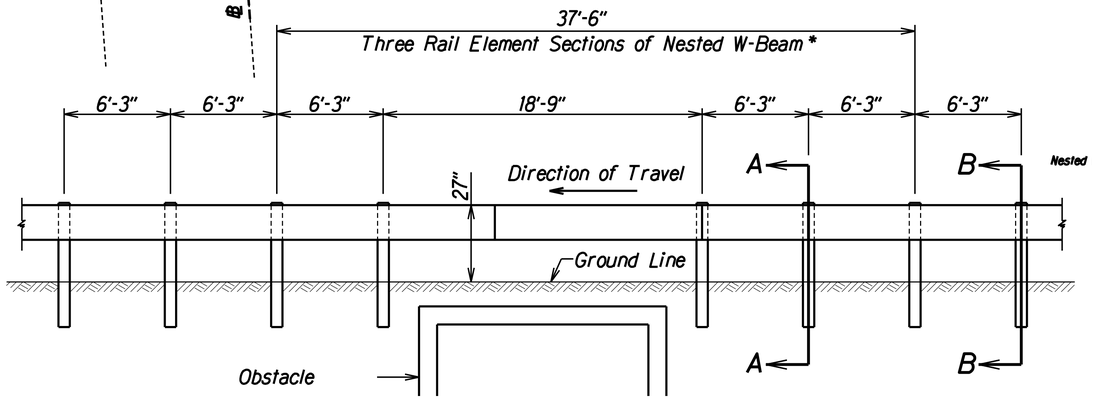
℄ Sta. 204+69.15± to ℄ Sta. 205+81.65± Lt.
Transition Existing W-Beam to Strong Post W-Beam Guardrail. Install 25 L.F. Strong Post W-Beam Guardrail. Install 37.5 L.F. Nested Long Span Strong Post W-Beam Guardrail over 18'-9" Obstacle. Install 25 L.F. Strong Post W-Beam Guardrail. Install MSKT-SP TL-2 or Equivalent (1 Ea.) at Approach End.

℄ Sta. 202+67± to ℄ Sta. 205+42± Lt.
Remove Existing Guardrail with Rubrail except where noted on plans.



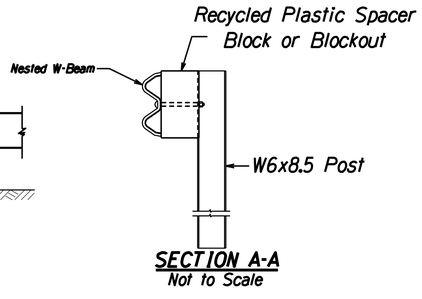
GUARDRAIL DETAIL AT ℄ Sta. 202+31.22± TO ℄ Sta. 205+81.65± LT.

Scale: Not to Scale

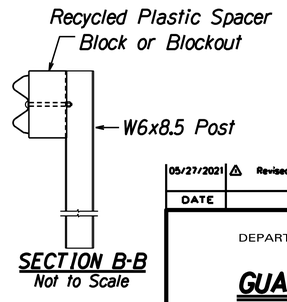


NESTED LONG SPAN STRONG POST W-BEAM GUARDRAIL OVER 18'-9" OBSTACLE

Scale: N.T.S.



SECTION A-A
Not to Scale



SECTION B-B
Not to Scale

NOTE: All Rail Elements Sections are 12'-6" and All Posts are 6' Long
All nested W-Beam splice points shall be staggered.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE 12/09
	DRAWN BY K	
	TRACED BY K	
NOTE BOOK	DESIGNED BY K	
	QUANTITIES BY	
No.	CHECKED BY	

DATE	REVISION
05/27/2021	Revised Sheet

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GUARDRAIL DETAIL

KAMEHAMEHA HIGHWAY REHABILITATION
Vicinity of Kapuhi Street to Dairy Road
Federal Aid Project No. NH-083-1-(77)

Scale: 1" = 20' Date: June, 2020

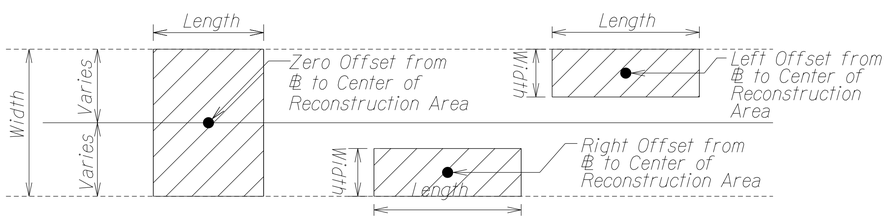
SHEET No. 11 OF 11 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(77)	2021	23	87

Reconstruction Area Schedule (Westbound Lanes)

Station		Apx. Offset from BL to Center of Reconstruction Area (L.F.)		Length (L.F.)	Width (L.F.)	Approximate Area (S.F.)
From	To	Left	Right			
144+00	144+65	2.75		65	5.5	357.50
144+65	145+50	5.50		85	11	935
148+40	148+50	8.25		40	5	200
282+60	282+90	5.50		30	11	330
283+90	284+10	5.50		20	11	220
291+60	293+90	8.25		230	5.5	1265
296+60	297+00	2.75		40	5.5	220
297+40	297+80	7.25		40	5.5	220
297+80	299+00	5.50		120	11	1320
300+50	301+50	2.75		100	5.5	550
302+45	302+60	2.75		15	5.5	82.50
304+30	304+50	2.75		20	5.5	110
304+85	305+00	5.50		15	11	165
305+70	305+90	8.25		20	5.5	110
306+20	306+60	2.75		40	5.5	220
308+60	308+90	2.75		30	5.5	165
309+50	310+25	5.50		75	11	825
310+25	310+40	2.75		15	5.5	82.50
					Total	6996

Station		Apx. Offset from BL to Center of Reconstruction Area (L.F.)		Length (L.F.)	Width (L.F.)	Approximate Area (S.F.)
From	To	Left	Right			
311+00	311+15	7.25		15	5.5	82.50
311+97	312+17	2.75		20	5.5	110
312+17	312+52	5.50		35	11	385
313+50	314+40	8.25		90	5.5	495
314+40	314+70	5.50		30	11	330
314+70	315+20	8.25		50	5.5	275
316+90	317+50	2.75		60	5.5	330
318+30	318+50	8.25		20	5.5	110
319+00	319+20	5.50		15	11	165
319+70	320+45	2.75		75	5.5	412.50
320+75	321+15	2.75		40	5.5	220
321+40	322+60	5.50		120	11	1320
324+00	324+50	5.50		50	11	550
328+85	329+20	5.50		35	11	385
338+35	340+10	5.50		175	11	1925
341+10	341+30	2.75		20	5.5	110
341+45	341+85	5.50		40	11	440
					Total	15,022.50



LOCATION OF WEAKENED PAVEMENT DETAIL

Not to Scale

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

DATE	REVISION
05/27/2021	⚠1 Revised Schedule

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

RECONSTRUCTION AREA SCHEDULE

KAMEHAMEHA HIGHWAY REHABILITATION
Vicinity of Kapuhi Street to Dairy Road
Federal Aid Project No. NH-083-1(77)

Date: June, 2020

SHEET No. 1 OF 2 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(77)	2021	24	87

Reconstruction Area Schedule (Eastbound Lanes)

Station		Apx. Offset from BL to Center of Reconstruction Area (L.F.)		Length (L.F.)	Width (L.F.)	Approximate Area (S.F.)
From	To	Left	Right			
144+00	144+65		2.75	85	5.5	467.50
144+65	145+50		2.75	65	5.5	357.50
148+10	150+80		5	270	10	2700
163+90	164+10		8.50	20	5	100
166+10	166+35		8.50	25	5	125
167+20	168+40		13	120	6	720
167+50	167+75		5	25	10	250
168+60	169+30		8.50	70	5	350
173+05	173+45		8.50	40	5	200
178+00	178+50		11.50	50	6	300
178+00	178+70		3	70	5	350
185+75	186+40		8.50	65	5	325
187+00	188+15		8.50	115	5	575
189+80	190+90		5	110	10	1100
193+38	193+78		12	40	24	960
196+35	197+10		5	75	10	750
197+10	197+90		7.50	80	5	400
198+40	200+15		8.50	175	5	875
201+56	202+06		18	50	14	700
203+30	203+75		8.50	45	5	225
208+80	209+00		8.50	20	5	100
210+35	210+50		8.50	15	5	75
282+60	282+90		5.50	30	11	330
282+90	283+90		6.25	100	5.5	550
283+90	284+10		5.50	20	11	220
284+10	284+70		7.75	60	5.5	330
289+40	289+90		8.25	50	5.5	275
304+85	305+00		0	15	22	330
305+30	305+70		8.25	40	5.5	220
306+20	306+60		2.75	40	5.5	220
308+60	308+90		2.75	30	5.5	165
309+30	309+60		2.75	30	5.5	165
311+97	312+17		2.75	20	5.5	110
313+30	313+50		8.25	20	5.5	110
314+40	314+55		8.25	15	5.5	82.50
316+90	317+50		2.75	60	5.5	330
318+35	318+55		8.25	20	5.5	110
318+92	319+07		8.25	20	5.5	110
319+70	320+45		2.75	75	5.5	412.50
320+75	321+15		2.75	40	5.5	220
321+25	321+40		8	15	6	90
325+30	325+80		8.25	50	5.5	275
327+00	327+15		8.25	15	5.5	82.50
327+50	327+75		2.75	25	5.5	137.50
328+05	328+40		8.25	35	5.5	192.50
328+85	329+20		5.5	35	11	385
338+75	338+89		5.5	14	11	154
339+49	339+65		5.5	16	11	176
340+55	340+75		8.25	20	5.5	110
341+10	341+30		5.5	20	11	220
					Total	17,947.50

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

05/27/2021	⚠ Revised Schedule
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

RECONSTRUCTION AREA SCHEDULE

KAMEHAMEHA HIGHWAY REHABILITATION
Vicinity of Kapuhi Street to Dairy Road
Federal Aid Project No. NH-083-1(77)

Date: June, 2020

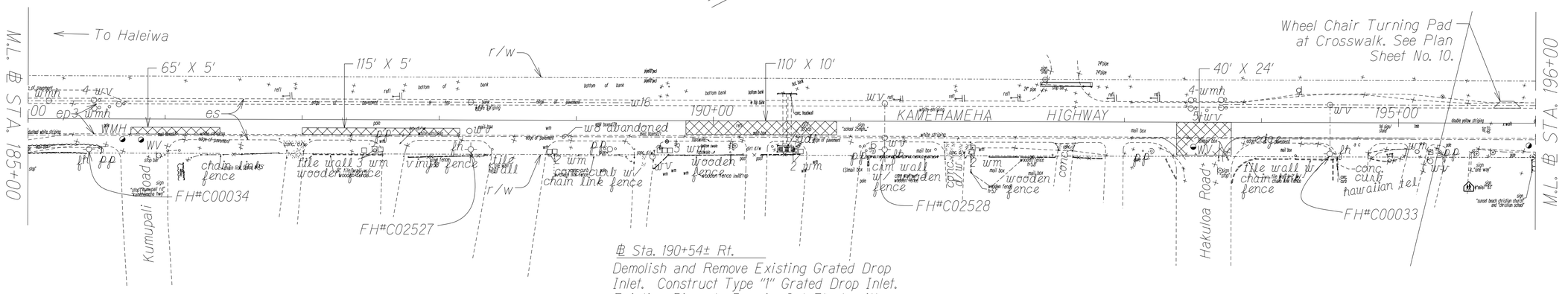
SHEET No. 2 OF 2 SHEETS

ADD. 4 24

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(77)	2021	27	87

TRUE NORTH
SCALE : 1" = 40'

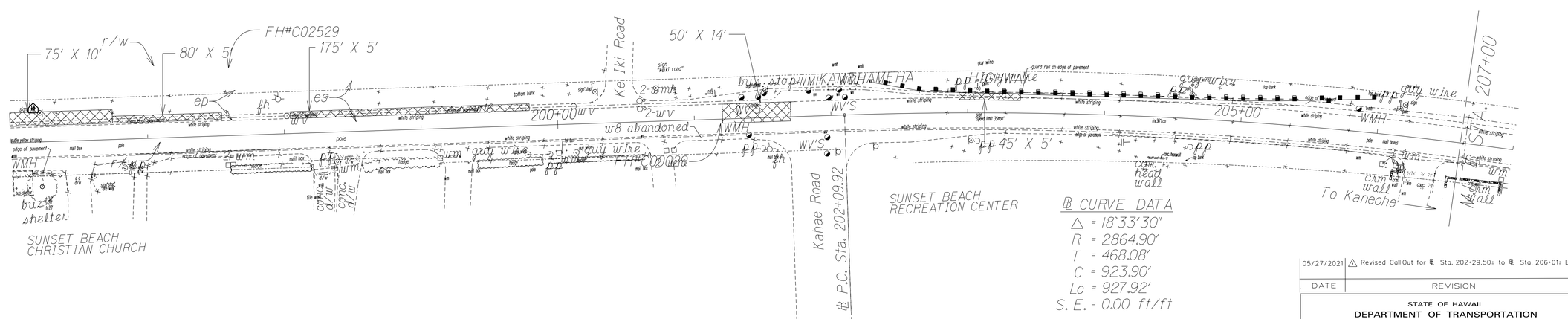
℄ Sta. 192+39 to ℄ Sta. 192+76± Lt.
Remove Existing Culvert. Construct Type "1" Grated Drainage Structure. For Details See Sheet Nos. H5-H7.



℄ Sta. 190+54± Rt.
Demolish and Remove Existing Grated Drop Inlet. Construct Type "1" Grated Drop Inlet. Existing Pipes to Remain, Cut Flush with Inside Face of Concrete Walls. For Details See Sheet Nos. H3-H4.

TRUE NORTH
SCALE : 1" = 40'

℄ Sta. 202+29.50± to ℄ Sta. 206+01± Lt.
See Plan Sheet 22



Approved:

Manager and Chief Engineer, BWS — Date
(For Work Affecting BWS Facilities in City/State R/W and BWS Easement Only)

DATE	REVISION
05/27/2021	△1 Revised Call Out for ℄ Sta. 202+29.50± to ℄ Sta. 206+01± Lt.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS

KAMEHAMEHA HIGHWAY REHABILITATION

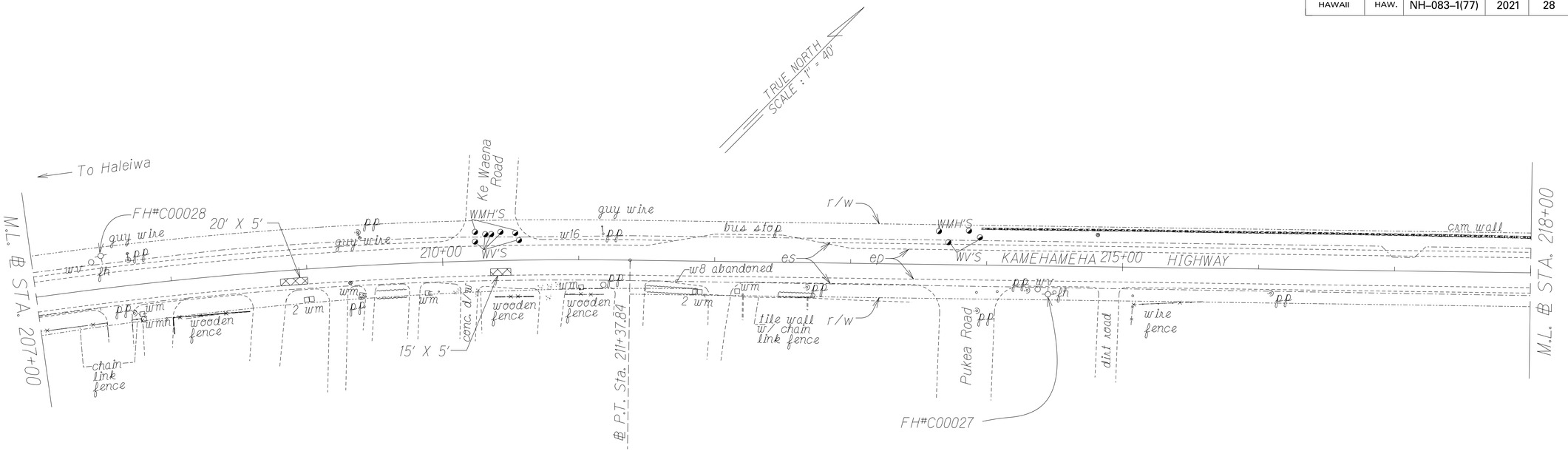
Vicinity of Kapuhi Street to Dairy Road
Federal-Aid Project No. NH-083-1(77)

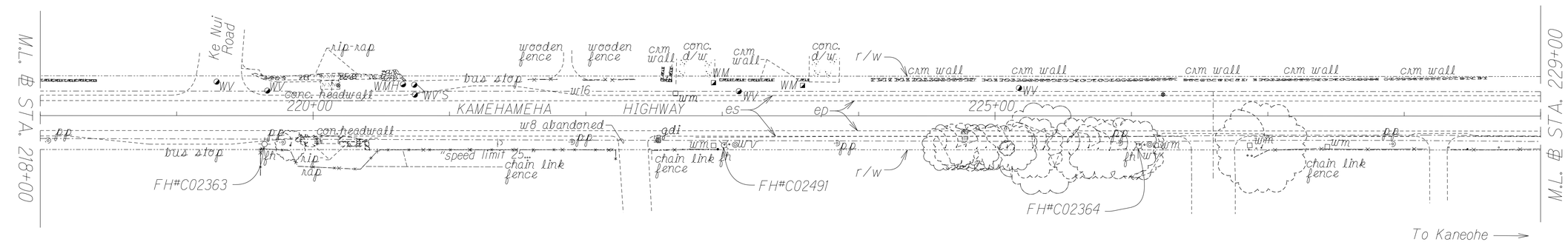
Scale: 1" = 40' Date: June, 2020

SHEET No. 3 OF 10 SHEETS

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(77)	2021	28	87





Approved:

Manager and Chief Engineer, BWS — Date
(For Work Affecting BWS Facilities
in City/State R/W and BWS Easement Only)

DATE	REVISION
05/25/2021	⚠1 Removed reference to Metal Railings

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION ⚠1
HIGHWAYS DIVISION

ROADWAY PLANS

KAMEHAMEHA HIGHWAY REHABILITATION

Vicinity of Kapuhi Street to Dairy Road
Federal-Aid Project No. NH-083-1(77)

Scale: 1" = 40' Date: June, 2020

SHEET No. 4 OF 10 SHEETS

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

ADD. 4 28

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(77)	2021	33	87

℄ Sta. 317+57± to ℄ Sta. 318+51± o/s 15.0'± Lt.

Retain Existing Thrie Beam (25.00 L.F.). Remove Existing Guardrails and Transition at Trailing End (68.75 L.F.). Transition from Existing Guardrail (6.25 L.F.) to Strong Post W-Beam. Install 6.25 L.F. of Strong Post W-Beam. Install 37.5 L.F. of Nested Long Span Strong Post W-Beam. Install 6.25 L.F. of Strong Post W-Beam. Install QuadGuard QG28024 with anchor block or Equivalent on Trailing End (1 Ea.).

℄ Sta. 316+58± to ℄ Sta. 318+04± o/s 16.0'± Lt.

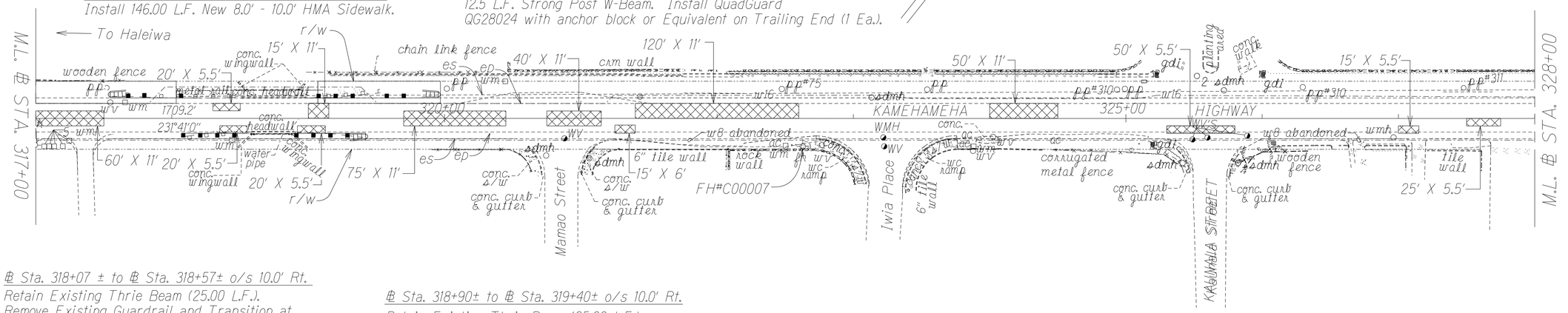
Install 146.00 L.F. New 8.0' - 10.0' HMA Sidewalk.

℄ Sta. 318+97± to ℄ Sta. 319+97± o/s 12.0'± Lt.

Retain Existing Thrie Beam (25.00 L.F.). Remove Existing Guardrail and Transition at Approaching End (31.25 L.F.). Transition from Existing Guardrail (6.25 L.F.) to Strong Post W-Beam. Install 6.25 L.F. of Strong Post W-Beam. Install 37.5 L.F. of Nested Long Span Strong Post W-Beam. Install 12.5 L.F. Strong Post W-Beam. Install QuadGuard QG28024 with anchor block or Equivalent on Trailing End (1 Ea.).

℄ Sta. 318+97± to ℄ Sta. 319+97± o/s 12.0'± Lt.

Install 100.00 L.F. New 8.0' - 9.0' HMA Sidewalk.



℄ Sta. 318+07 ± to ℄ Sta. 318+57± o/s 10.0' Rt.

Retain Existing Thrie Beam (25.00 L.F.). Remove Existing Guardrail and Transition at Approaching End (25.00 L.F.). Transition from Existing Guardrail (6.25 L.F.) to 31" W-Beam with Standard 8" Offset Block. Install Trailing-End Anchorage System on Approach End (1 Ea.).

℄ Sta. 318+90± to ℄ Sta. 319+40± o/s 10.0' Rt.

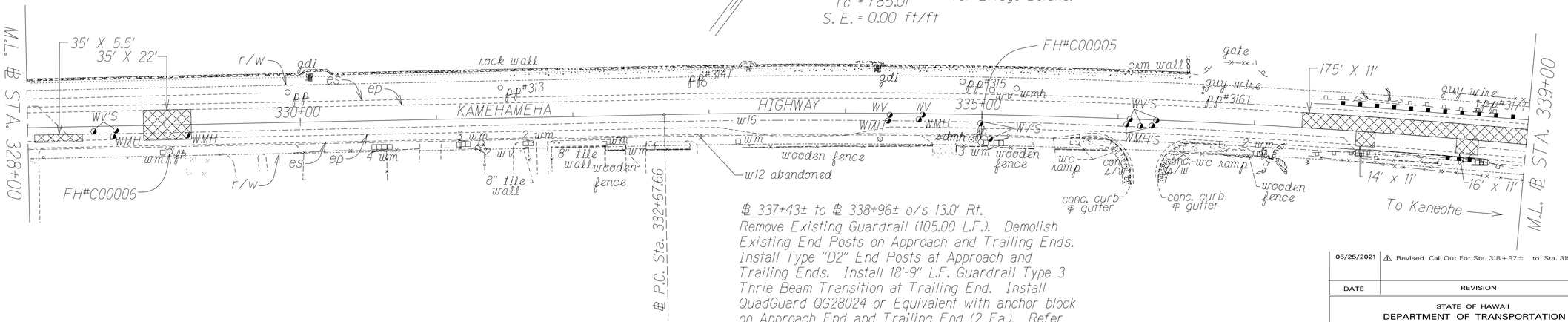
Retain Existing Thrie Beam (25.00 L.F.). Remove Existing Guardrail and Transition at Trailing End (25.00 L.F.). Install 12.50 L.F. of Strong Post Thrie Beam. Install QuadGuard QG28024 with anchor block or Equivalent on Trailing Edge (1 Ea.).

℄ CURVE DATA

△ = 7°51'00"
R = 5729.65'
T = 393.14'
C = 784.44'
Lc = 785.01'
S. E. = 0.00 ft/ft

℄ 337+2± to ℄ 339+20± o/s 20' Lt.

Remove 112.50 L.F. of Existing Guardrail. Demolish Existing Culvert Rail and Endposts. Install Modified Delaware Retrofit and 18'-9" L.F. Guardrail Type 3 Thrie Beam Transition on Both Ends. At Trailing End, Install 6.25 L.F. of 31" W-Beam with Standard 8" Offset Block (8' Posts) and MSKT-SP TL-2 or Equivalent (1 Ea.). At Approach End, Install 62.50 L.F. of Strong Post Thrie Beam (8' Posts) with 1' 6¾" Post Spacing. Transition to 6.25 L.F. of 31" W-Beam with 8" Standard Offset Block (8' Posts) and Install MSKT-SP TL-2 or Equivalent (1 Ea.). Refer to Sheet No. Q4 to Q5 for Bridge Details.



℄ 337+43± to ℄ 338+96± o/s 13.0' Rt.

Remove Existing Guardrail (105.00 L.F.). Demolish Existing End Posts on Approach and Trailing Ends. Install Type "D2" End Posts at Approach and Trailing Ends. Install 18'-9" L.F. Guardrail Type 3 Thrie Beam Transition at Trailing End. Install QuadGuard QG28024 or Equivalent with anchor block on Approach End and Trailing End (2 Ea.). Refer to Sheet No. Q4 to Q5 for Bridge Details.

Approved:

Manager and Chief Engineer, BWS (For Work Affecting BWS Facilities in City/State R/W and BWS Easement Only) — Date

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

DATE	REVISION
05/25/2021	⚠1 Revised Call Out For Sta. 318+97± to Sta. 319+97±

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS

KAMEHAMEHA HIGHWAY REHABILITATION

Vicinity of Kapuhi Street to Dairy Road
Federal-Aid Project No. NH-083-1(77)

Scale: 1" = 40' Date: June, 2020

SHEET No. 9 OF 10 SHEETS

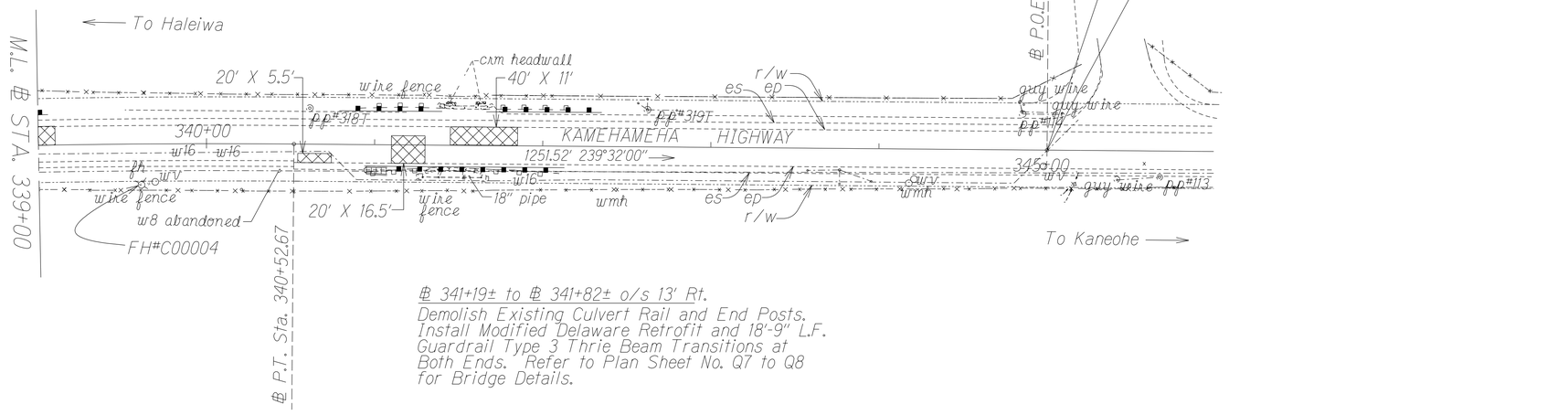
ADD. 4

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(77)	2021	34	87

TRUE NORTH
SCALE : 1" = 40'

℄ 341+23± to ℄ 341+85± o/s 20' Lt.
Demolish Existing Culvert Rail and End Posts. Install Modified Delaware Retrofit and 18'-9" L.F. Guardrail Type 3 Thrie Beam at Both Ends. Refer to Plan Sheets No. Q7 to Q8 for Bridge Details.

℄ 340+80± to ℄ 342+35± o/s 20' Lt.
Install 12.50 L.F. of 31" W-Beam with Standard 8" Offset Block (8' Posts) and MSKT-SP TL-2 or Equivalent (1 Ea.) at Trailing End. Install 25.00 L.F. of 31" W-Beam with Standard 8" Offset Block (8' Posts) and MSKT-SP TL-2 or Equivalent (1 Ea.) at Approach End. Transition from Thrie Beam to 31" W-Beam.



℄ 341+19± to ℄ 341+82± o/s 13' Rt.
Demolish Existing Culvert Rail and End Posts. Install Modified Delaware Retrofit and 18'-9" L.F. Guardrail Type 3 Thrie Beam Transitions at Both Ends. Refer to Plan Sheets No. Q7 to Q8 for Bridge Details.

℄ 340+94± to ℄ 342+10± o/s 13' Rt.
Remove 75.00 L.F. of Existing Guardrail. Install QuadGuard QG28024 with anchor block or Equivalent at Approach End (1 Ea.). Transition from Thrie Beam to 31" W-Beam with Standard 8" Offset Block and MSKT-SP TL-2 (1 Ea.) at Trailing End.

Approved:

Manager and Chief Engineer, BWS — Date
(For Work Affecting BWS Facilities in City/State R/W and BWS Easement Only)

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

DATE	REVISION
05/25/2021	⚠1 Revised Call Out For Station 341+19 to Station 341+82 Removed Call Out for Station 338+12 to 339+20

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS

KAMEHAMEHA HIGHWAY REHABILITATION
Vicinity of Kapuhi Street to Dairy Road
Federal-Aid Project No. NH-083-1(77)

Scale: 1" = 40' Date: June, 2020

SHEET No. 10 OF 10 SHEETS