

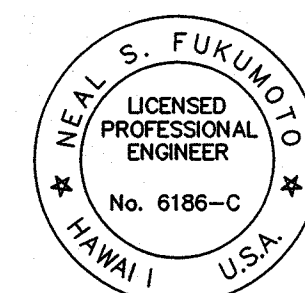
31. All signs, pavement markings, striping, etc. removed or damaged by the Contractor shall be replaced by the Contractor at no additional cost to the State.
32. The exact locations and limits or areas to be filled with leveling course, reconstructed and cold planed shall be determined in the field by the Engineer.
33. The Contractor shall notify the State in writing, two (2) weeks prior to starting paving operations.
34. The Contractor shall remove and dispose of all existing raised pavement markers prior to the overlaying of Asphalt Concrete. This work shall be considered incidental to Hot Mix Asphalt Pavement, Mix No. IV and will not be paid for separately.
35. Existing pavement markings and preformed pavement marking tape shall be removed prior to resurfacing. Removal shall be by scraping, grinding or other method approved by the Engineer. Payment shall be incidental to Hot Mix Asphalt Concrete Pavement, Mix No. IV.
36. Smooth riding surfaces shall be constructed at all limits of resurfacing including the beginning and end of project, connecting approaches, side streets and driveways and at the ends of the daily work areas as shown on the plans and/or as directed by the Engineer.
37. During work stoppage and non-working hours, the Contractor shall restore to smooth-riding condition all pavement drop-offs greater than 1½" located within 10 feet of the edge of pavement, per Temporary Treatment of Grade Differences During Non-Working Hours Detail on Sheet 8, and shall schedule his work accordingly.
38. Contractor shall maintain at least one paved shoulder free and clear of debris for pedestrian and bicycle traffic at all times.
39. Public Notice is required for lane closures. The Contractor shall submit notice to the Engineer for approval a minimum of three weeks prior to publication. Pre-approval of notice, with dates left blank, is permissible.
40. Two lanes shall be open to traffic at all times.

1. All grading work shall conform to Chapter 10 of the Hawaii County Code. Should a grading permit be required, no work shall commence until the Department of Public Works (DPW) approves a grading permit.
2. The Contractor shall remove all silt and debris deposited in drainage facilities, roadways and other areas resulting from his work. The costs incurred for any necessary remedial action by the DPW shall be payable by the Contractor.
3. The Contractor, at his own expense, shall keep the project and surrounding areas free from dust nuisances. The work shall be in conformance with the Air Pollution Control rules of the State Department of Health, HAR 11-60.1, Fugitive Dust.
4. All grading operations shall be performed in conformance with the applicable provisions of the Hawaii Administrative Rules, Title 11, Chapter 55, Water Pollution Control and Chapter 54, Water Quality Standards, and to the Erosion and Sedimentation Control Standards and Guidelines of the Department of Public Works, County of Hawaii.
5. The Contractor shall sod or plant all slopes and exposed areas immediately after the grading work has been completed.
6. Fill on existing slopes steeper than 5H:1V shall be keyed and benched.
7. The Contractor shall inform the DPW of the location of the disposal and/or borrow site(s) required for this project when an application for a grading permit is made. The disposal and/or borrow site(s) must also fulfill the requirements of the grading ordinance.
8. No grading work shall be done on Saturdays, Sundays and holidays at any time without prior approval from the Department of Public Works. Grading work on normal working days shall be between the hours of 7:00 a.m. to 3:30 p.m. M-F
9. Fills shall be compacted to 90 percent of its maximum dry density per ASTM D-1557 test.
10. The Contractor shall remove all vegetation before placing fills on natural ground surface.
11. Estimated earthwork quantities do not include allowances for shrinkage, compaction, and other losses.
12. The contractor is responsible for verifying all earthwork quantities and field conditions.

LEGEND

	Traffic Control Work Area
	New Pavement Limits
○ <i>pp</i>	Existing Power Pole
○ <i>wmh</i>	Existing Water Manhole
○ <i>wv</i>	Existing Water Valve Box
□ <i>wm</i>	Existing Water Meter
○ <i>gw</i>	Existing Guy Wire
—○—○—○—	Existing Guardrail
	New Guardrail
	Existing CRM Wall

ORIGINAL PLAN	SURVEY PLOTTED BY _____ DATE _____
NOTE BOOK	DRAWN BY _____
	TRACED BY _____
	DESIGNED BY _____
	QUANTITIES BY _____
	CHECKED BY _____

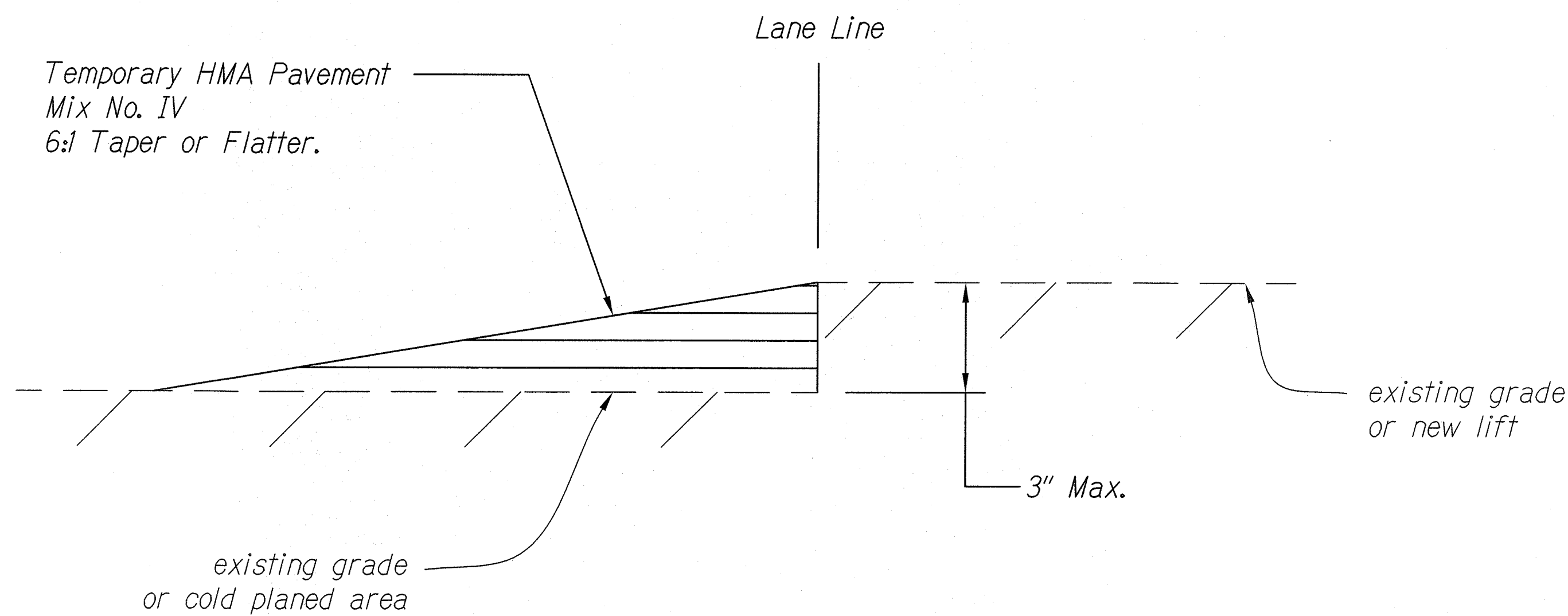


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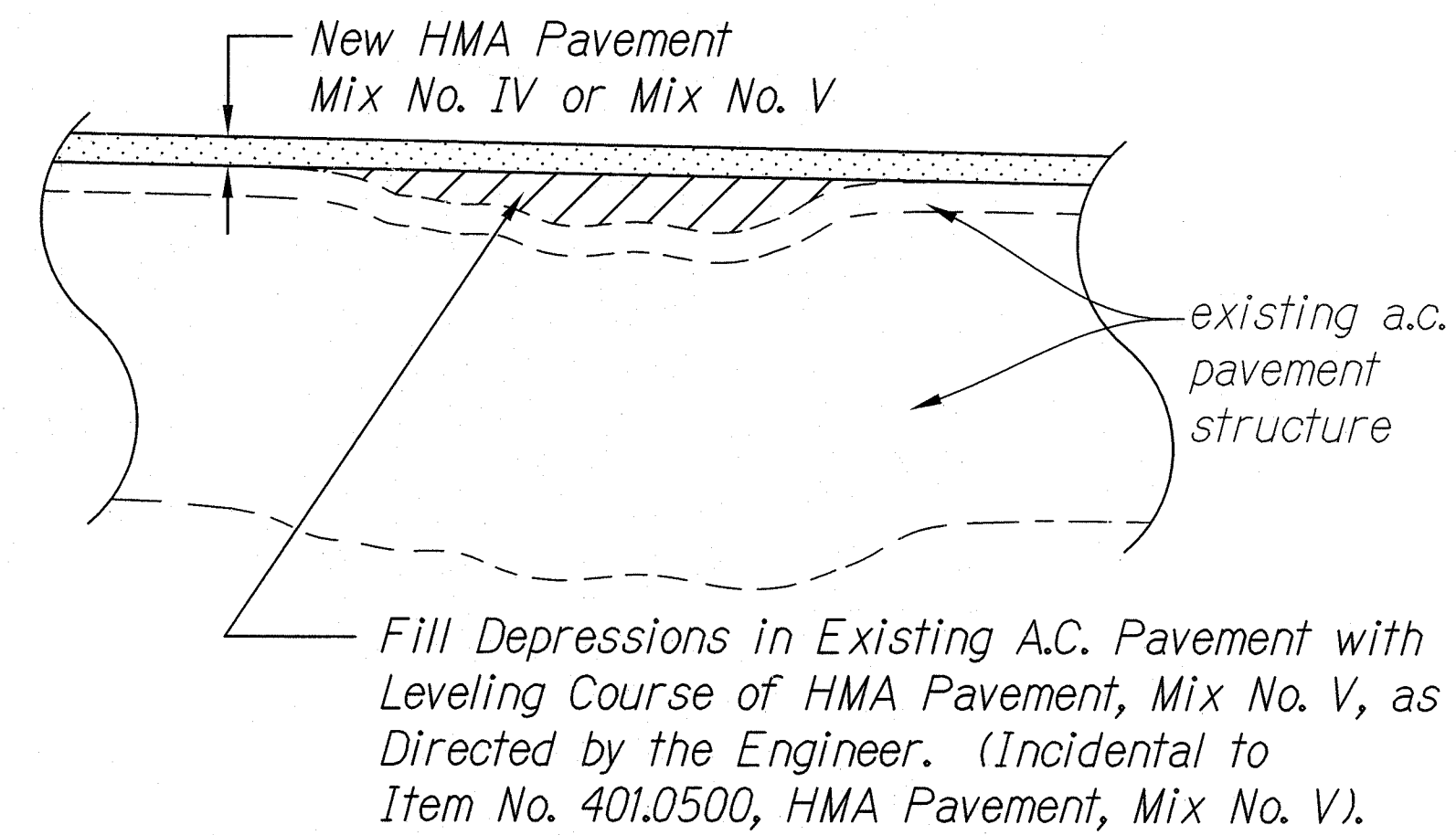
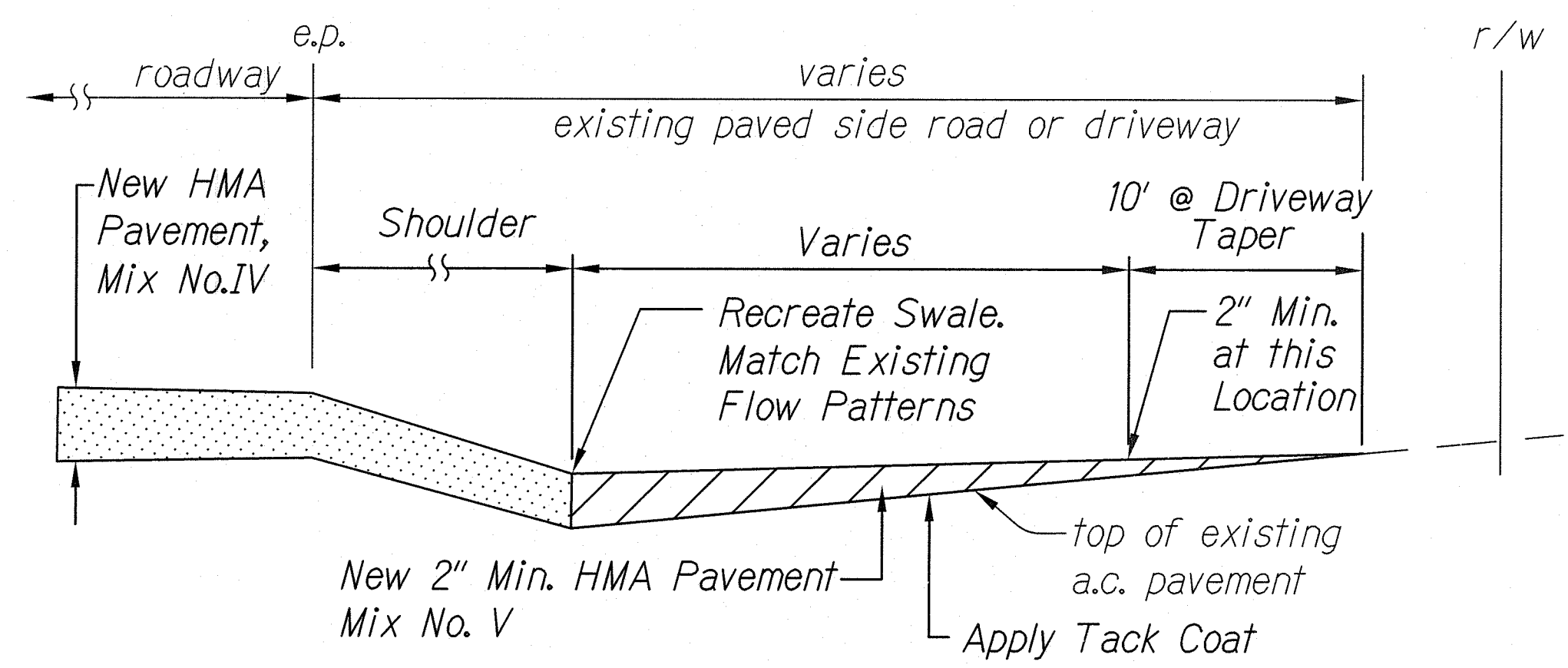
11/18/10	1	<i>Revised Note</i>
DATE	REVISION	
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION <u>GENERAL NOTES</u> <u>KUAKINI HIGHWAY</u> <u>ROADWAY & DRAINAGE IMPROVEMENTS</u> <u>Vicinity of Kam. III Road</u> <u>Project No. 11A-03-01, Unit 2</u> <i>Date: May 2010</i>		
SHEET No. 2 OF 2 SHEETS		

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	11A-03-01, UNIT 2	2011	ADD. 8	33



- NOTES:**
1. Temporary HMA Pavement shall be removed prior to placement of new pavement.
 2. Placement of Temporary HMA Pavement shall be paid for as 401.0400 HMA Pavement, Mix No. IV. Quantity is reflected in Proposal Schedule. 
 3. Removal of Temporary HMA Pavement shall be incidental to 415.1000 Cold Planing.

TEMPORARY TREATMENT OF GRADE DIFFERENCES
DURING NON-WORK HOURS
 Not To Scale



ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
CHECKED BY	
IN	

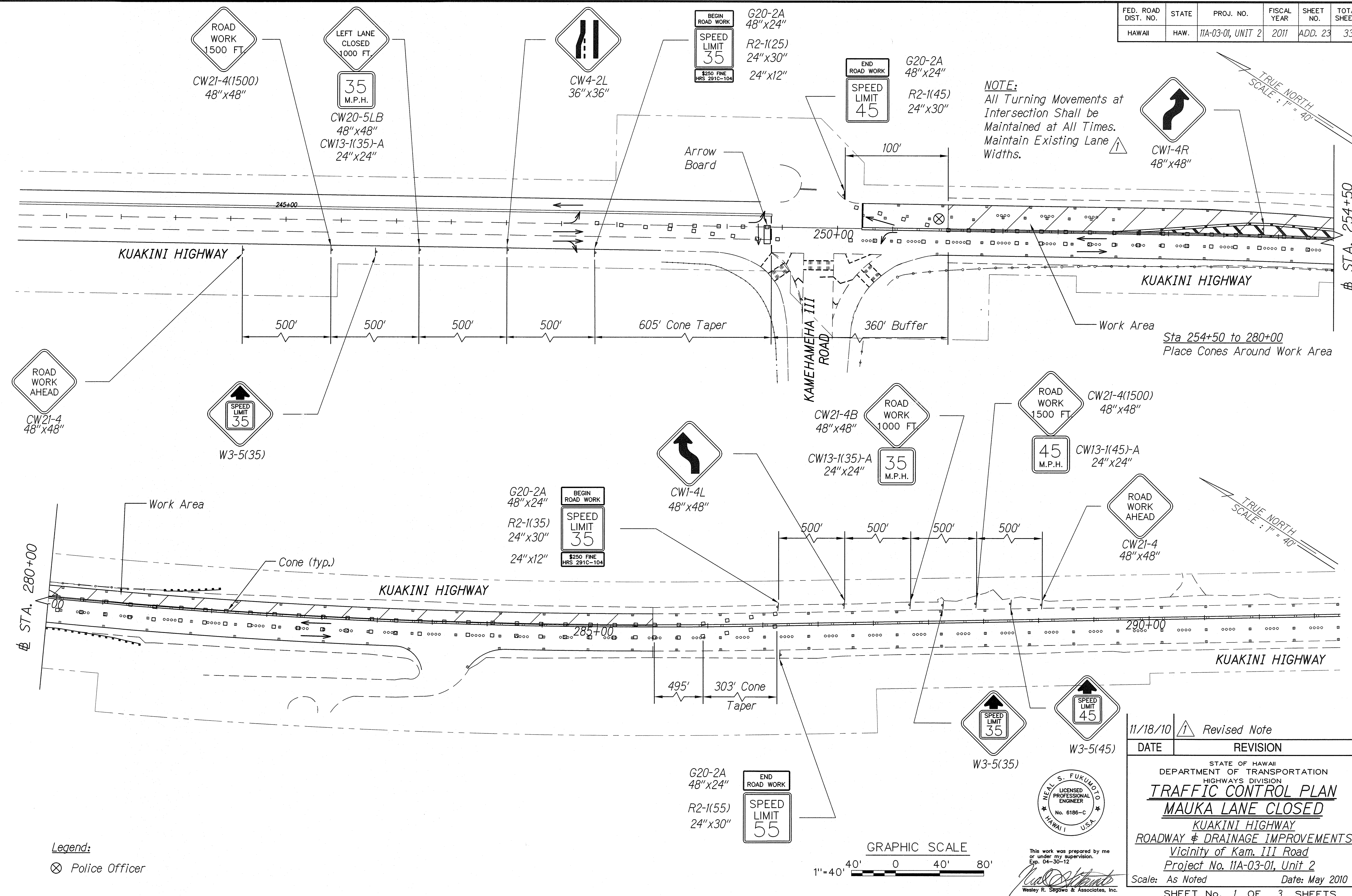
NEAL S. FUKUNAGA
 LICENSED PROFESSIONAL ENGINEER
 No. 6186-C
 HAWAII U.S.A.

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 Exp. 04-30-12

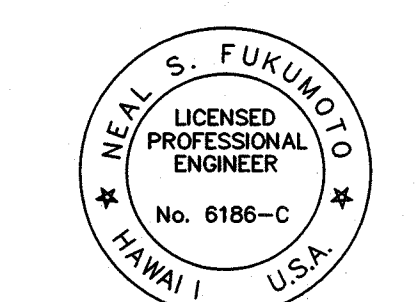
Wesley R. Segawa
 Wesley R. Segawa & Associates, Inc.

11/18/10	 Revised Note
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
<u>TYPICAL SECTIONS & DETAILS</u>	
KUAKINI HIGHWAY ROADWAY & DRAINAGE IMPROVEMENTS Vicinity of Kam. III Road Project No. 11A-03-01, Unit 2	
Scale: Not to Scale	Date: May 2010
SHEET No. 2 OF 2 SHEETS	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	11A-03-01, UNIT 2	2011	ADD. 23	33



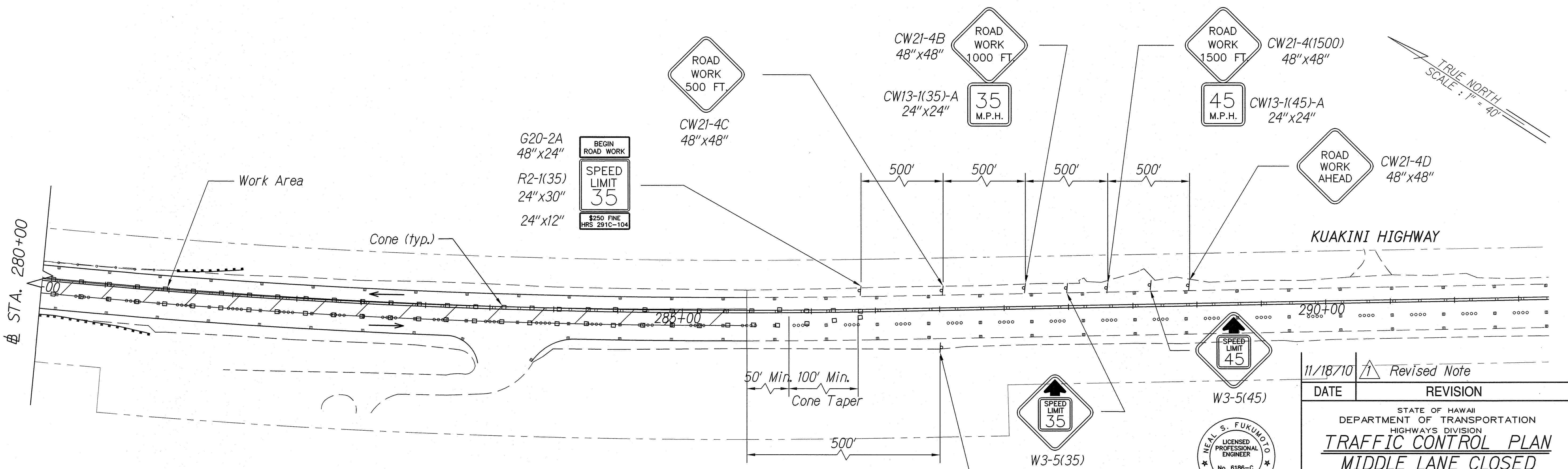
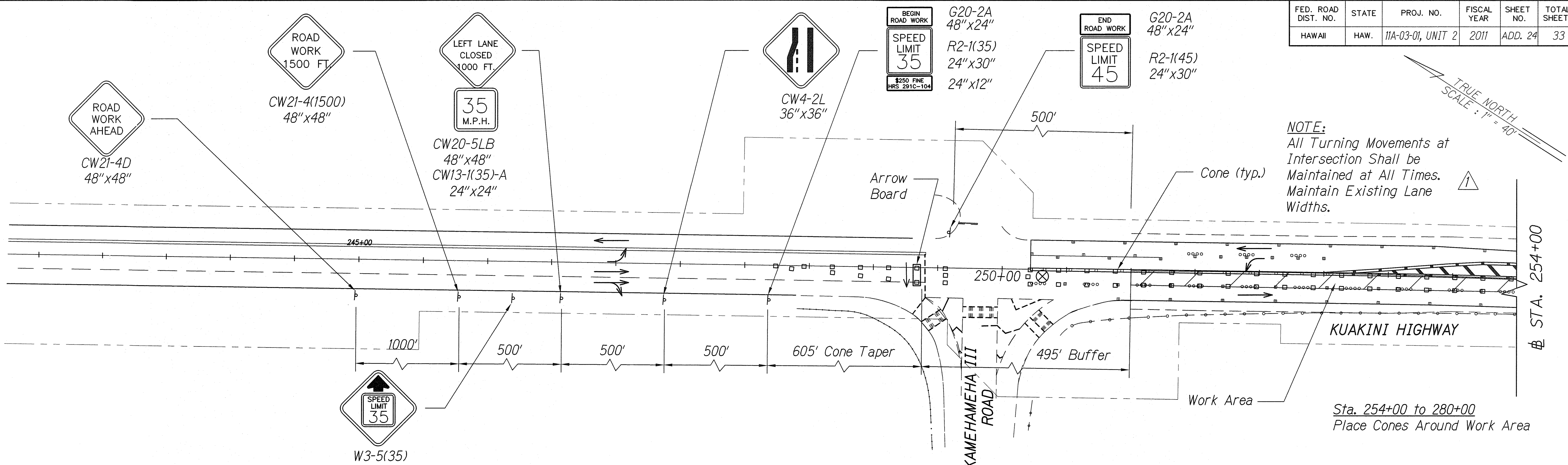
ORIGINAL PLAN	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	



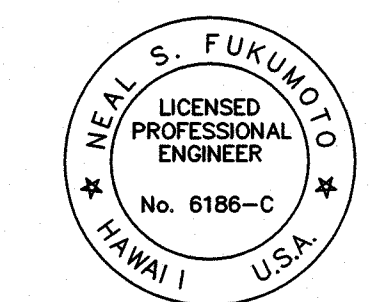
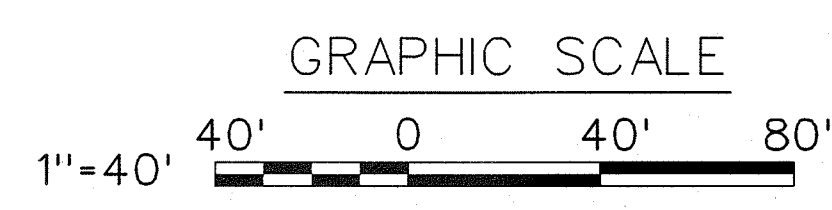
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 Wesley R. Segawa & Associates, Inc.

11/18/10	Revised Note
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION TRAFFIC CONTROL PLAN MAUKA LANE CLOSED KUAKINI HIGHWAY ROADWAY & DRAINAGE IMPROVEMENTS Vicinity of Kam. III Road Project No. 11A-03-01, Unit 2 Scale: As Noted Date: May 2010 SHEET No. 1 OF 3 SHEETS	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	11A-03-01, UNIT 2	2011	ADD. 24	33



Legend:
⊗ Police Officer



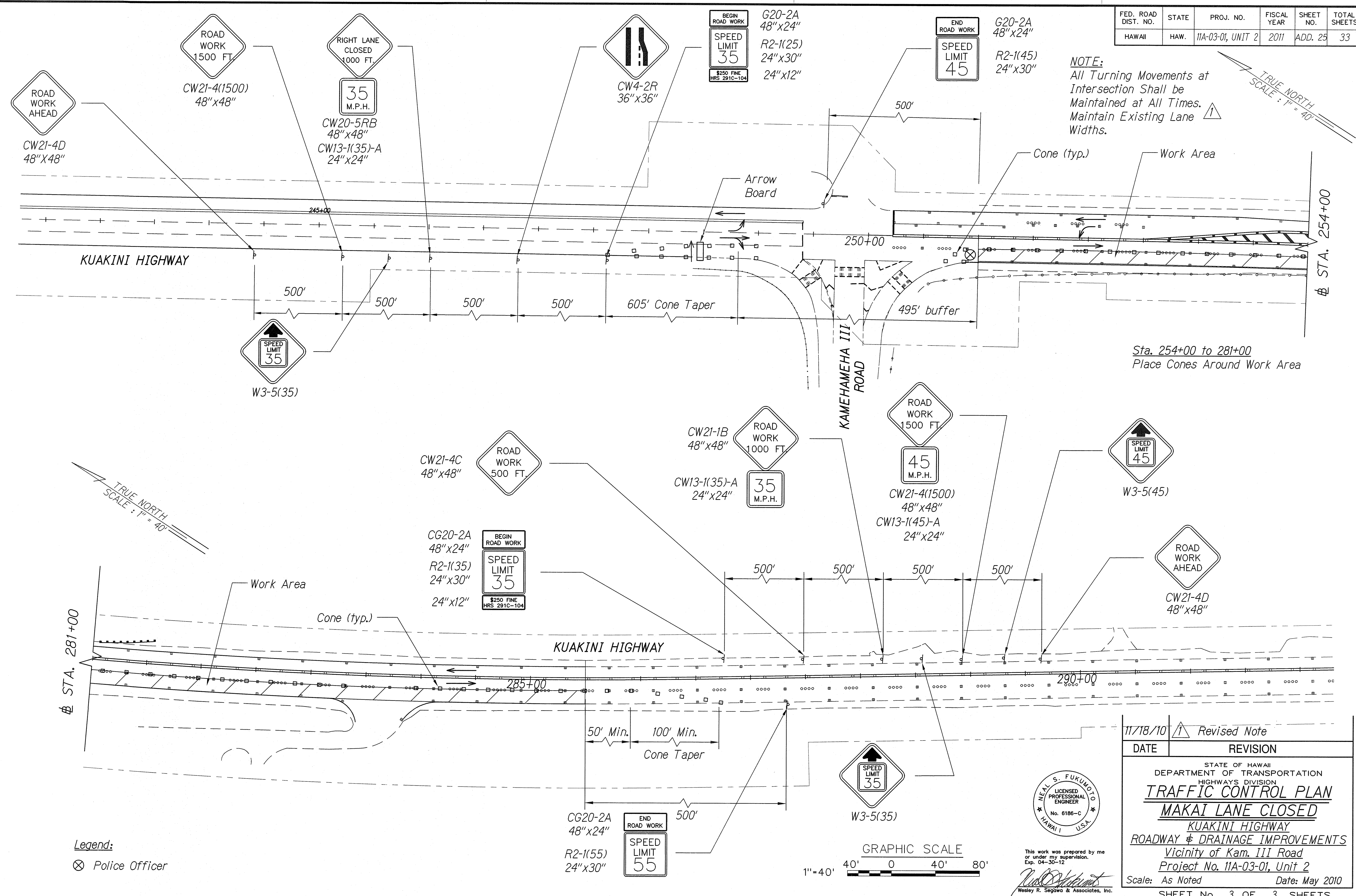
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Wesley R. Sagawa & Associates, Inc.

11/18/10	Revised Note
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION TRAFFIC CONTROL PLAN MIDDLE LANE CLOSED KUAKINI HIGHWAY ROADWAY & DRAINAGE IMPROVEMENTS Vicinity of Kam. III Road Project No. 11A-03-01, Unit 2 Scale: As Noted Date: May 2010 SHEET No. 2 OF 3 SHEETS	

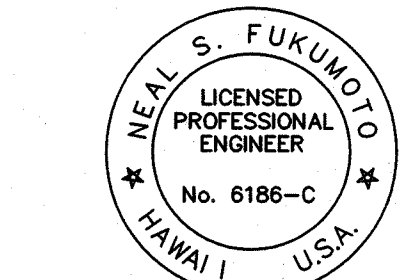
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	11A-03-01, UNIT 2	2011	ADD. 25	33

NOTE:
All Turning Movements at Intersection Shall be Maintained at All Times. Maintain Existing Lane Widths.

TRUE NORTH
SCALE: 1" = 40'



Legend:
⊗ Police Officer



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Exp. 04-30-12
Neal S. Fukumoto
Wesley R. Segawa & Associates, Inc.

DATE	REVISION
11/18/10	Revised Note
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION TRAFFIC CONTROL PLAN MAKAI LANE CLOSED KUAKINI HIGHWAY ROADWAY & DRAINAGE IMPROVEMENTS Vicinity of Kam. III Road Project No. 11A-03-01, Unit 2 Scale: As Noted Date: May 2010 SHEET No. 3 OF 3 SHEETS	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	11A-03-01, UNIT 2	2011	ADD. 33	33

Coldplane		
STATION	AREA (sf)	VOLUME (cy)
250+50	0.0	0.00
251+00	7.7	12.59
251+50	5.9	9.91
252+00	4.8	11.48
252+50	7.6	8.80
253+00	1.9	3.52
253+50	1.9	4.35
254+00	2.8	3.61
254+50	1.1	3.06
255+00	2.2	2.96
255+50	1.0	2.04
256+00	1.2	2.13
256+50	1.1	2.04
257+00	1.1	2.50
257+50	1.6	2.59
258+00	1.2	2.13
258+50	1.1	1.85
259+00	0.9	1.57
259+50	0.8	1.39
260+00	0.7	1.39
260+50	0.8	1.48
261+00	0.8	1.39
261+50	0.7	1.48
262+00	0.9	1.57
262+50	0.8	2.50
263+00	1.9	3.43
263+50	1.8	2.96
264+00	1.4	2.59
264+50	1.4	2.13
265+00	0.9	2.13
265+50	1.4	2.69
266+00	1.5	5.19
266+50	4.1	10.83
267+00	7.6	13.24
267+50	6.7	12.78

Coldplane		
STATION	AREA (sf)	VOLUME (cy)
268+00	7.1	8.98
268+50	2.6	5.83
269+00	3.7	7.69
269+50	4.6	8.52
270+00	4.6	10.56
270+50	6.8	13.15
271+00	7.4	10.56
271+50	4.0	8.43
272+00	5.1	7.13
272+50	2.6	5.83
273+00	3.7	5.74
273+50	2.5	4.07
274+00	1.9	3.06
274+50	1.4	2.59
275+00	1.4	4.07
275+50	3.0	3.89
276+00	1.2	1.57
276+50	0.5	2.69
277+00	2.4	3.70
277+50	1.6	2.96
278+00	1.6	2.31
278+50	0.9	2.41
279+00	1.7	3.24
279+50	1.8	2.50
280+00	0.9	1.76
280+50	1.0	3.06
281+00	2.3	2.69
281+50	0.6	3.06
282+00	2.7	4.54
282+50	2.2	3.80
283+00	1.9	3.43
283+50	1.8	3.06
284+00	1.5	4.63
284+50	3.5	9.26
285+00	6.5	11.30
285+50	5.7	

Volume = 328.33cy

HMA Mix IV		
STATION	AREA (sf)	VOLUME (cy)
250+50	0.0	0.00
251+00	0.0	3.24
251+50	3.5	9.91
252+00	7.2	11.94
252+50	5.7	14.54
253+00	10.0	20.65
253+50	12.3	21.39
254+00	10.8	23.33
254+50	14.4	23.70
255+00	11.2	20.93
255+50	11.4	20.83
256+00	11.1	21.02
256+50	11.6	20.65
257+00	10.7	19.07
257+50	9.9	18.61
258+00	10.2	18.61
258+50	9.9	18.80
259+00	10.4	20.00
259+50	11.2	20.83
260+00	11.3	20.74
260+50	11.1	20.65
261+00	11.2	20.83
261+50	11.3	20.37
262+00	10.7	20.93
262+50	11.9	22.31
263+00	12.2	20.56
263+50	10.0	19.17
264+00	10.7	19.72
264+50	10.6	21.20
265+00	12.3	20.83
265+50	10.2	18.24
266+00	9.5	13.43
266+50	5.0	5.74
267+00	1.2	1.39
267+50	0.3	1.11

Volume = 1046.39cy

HMA Mix V		
STATION	AREA (sf)	VOLUME (cy)
250+50	0.0	0.00
251+00	0.0	0.00
251+50	0.0	1.67
252+00	1.8	3.43
252+50	1.9	4.81
253+00	3.3	15.28
253+50	13.2	24.17
254+00	12.9	21.94
254+50	10.8	14.26
255+00	4.6	7.31
255+50	3.3	10.09
256+00	7.6	15.00
256+50	8.6	15.46
257+00	8.1	12.69
257+50	5.6	10.00
258+00	5.2	9.63
258+50	5.2	10.37
259+00	6.0	10.65
259+50	5.5	12.87
260+00	8.4	14.91
260+50	7.7	14.44
261+00	7.9	14.17
261+50	7.4	13.52
262+00	7.2	14.17
262+50	8.1	14.63
263+00	7.7	11.67
263+50	4.9	8.43
264+00	4.2	9.63
264+50	6.2	11.67
265+00	6.4	10.28
265+50	4.7	7.13
266+00	3.0	2.78
266+50	0.0	0.00
267+00	0.0	0.00
267+50	0.0	0.00

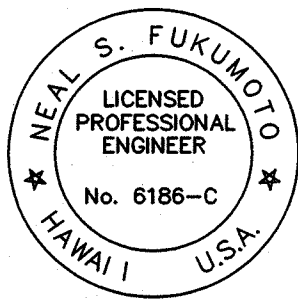
Volume = 479.63cy

Embankment		
STATION	AREA (sf)	VOLUME (cy)
250+50	0.0	0.00
251+00	0.0	0.00
251+50	0.0	0.00
252+00	0.0	0.00
252+50	0.0	0.00
253+00	0.0	0.00
253+50	0.0	0.00
254+00	0.0	0.19
254+50	0.2	0.74
255+00	0.6	0.56
255+50	0.0	0.00
256+00	0.0	0.00
256+50	0.0	0.00
257+00	0.0	0.00
257+50	0.0	0.00
258+00	0.0	0.00
258+50	0.0	0.00
259+00	0.0	0.00
259+50	0.0	3.52
260+00	3.8	11.11
260+50	8.2	58.24
261+00	54.7	121.67
261+50	76.7	113.70
262+00	46.1	44.91
262+50	2.4	2.22
263+00	0.0	1.76
263+50	1.9	2.04
264+00	0.3	4.17
264+50	4.2	7.31
265+00	3.7	18.70
265+50	16.5	16.48
266+00	1.3	1.20
266+50	0.0	0.00
267+00	0.0	0.00
267+50	0.0	0.19

Volume = 437.04cy

QUANTITY NOTES:

- Not included on this sheet is the additional HMA Pavement, Mix No. IV to be used for temporary treatment of grade differences during non-working hours as shown on the detail on Sheet 8. That quantity is approximately 80 tons, which is reflected in the quantity shown in the Proposal Schedule.
- Total HMA Mix IV volume shall be the sum of the coldplane volume and HMA Mix IV volume as shown on this sheet plus the approximately 80 tons for the temporary treatment of grade differences during non-working hours as described above.
- See sheet 7 for types of material to be used for embankment.



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Wesley R. Segawa & Associates, Inc.

11/18/10	Revised Note
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
CROSS SECTION QUANTITIES	
KUAKINI HIGHWAY ROADWAY & DRAINAGE IMPROVEMENTS Vicinity of Kam. III Road Project No. 11A-03-01, Unit 2 Date: May 2010	
SHEET No. 1 OF 1 SHEETS	