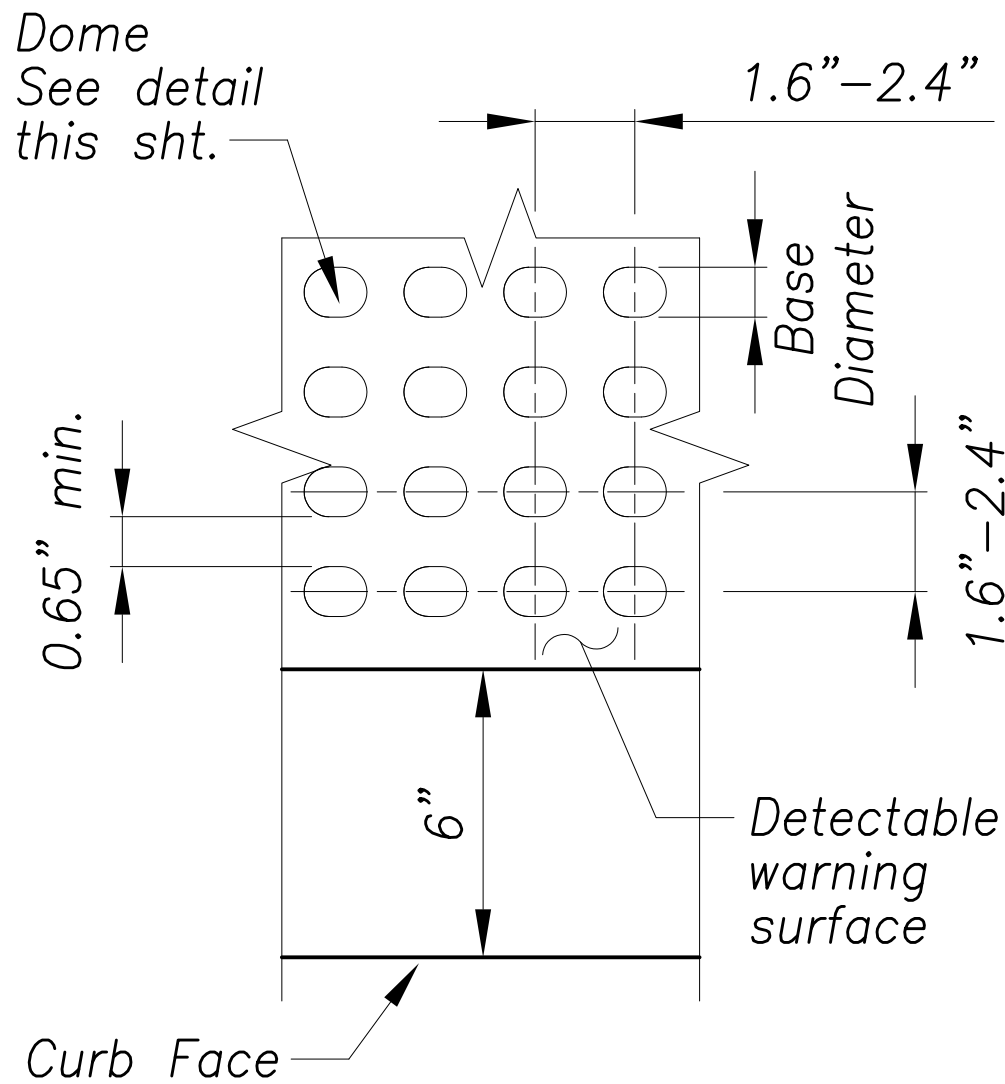
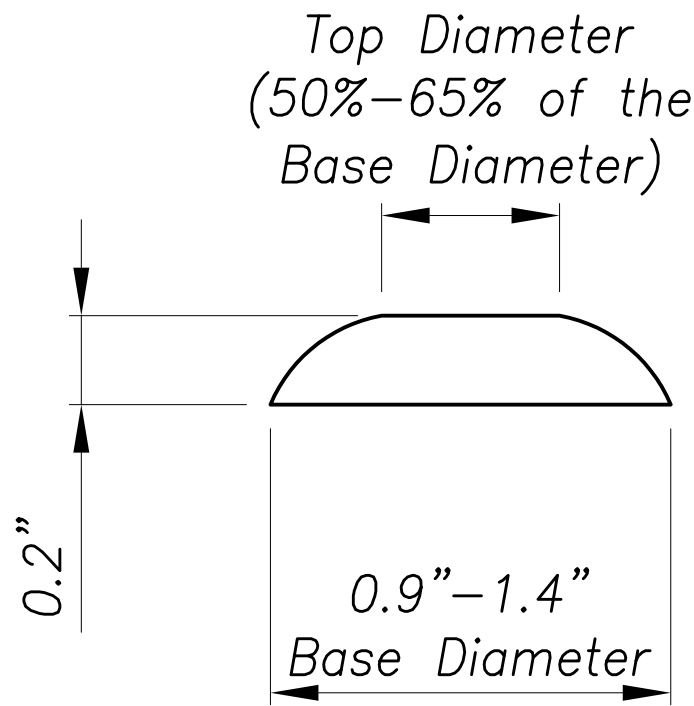


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0300(163)	2020	55	284



DOMES PLAN



DOMES SECTION

DETECTABLE WARNING DETAILS

No Scale

56-63, 67, 73-74, 76, 55

DETECTABLE WARNING DETAIL

- Detectable warnings shall be 24 inches in the direction of travel and extend the full width of the curb ramp or flush surface (does not include flares).
- Truncated domes shall have a diameter of 0.9 to 1.4 inch at the bottom, a diameter of 50%-65% of the base diameter at the top, a height of 0.2 inch and a center-to-center spacing of 1.6 to 2.4 inches measured along one side of a square arrangement.
- Domes shall be aligned on a square grid in the predominant direction of travel to permit wheels to roll between the domes.
- There shall be a minimum of 70 percent contrast in light reflectance between the detectable warning and an adjoining surface, or the detectable warning shall be "safety yellow".
- The material used to provide visual contrast shall be an integral part of the detectable warning surface.
- The detectable warning shall be located so that the edge nearest the curb face or other potential hazard is 6 to 8 inches from curb face.
- Detectable warnings shall be cast-in-place and replaceable. The Contractor shall submit the detectable warning material/product description to the Engineer for review and approval.

CURB RAMP NOTES

- The Contractor shall not exceed a 2% maximum cross slope in the direction of pedestrian traffic, unless indicated otherwise.
- Subject to field conditions, the Engineer shall determine the final location of curb ramps.
- The Contractor shall adjust existing pullboxes, handholes, manholes, etc. to match curb ramp grade. Adjustments shall not be paid for separately but shall be considered incidental to the various curb ramp items, unless indicated otherwise.
- Transitions from ramps to gutters and roadways shall be flush.
- The Contractor shall install pedestrian push buttons to comply with operational and reach requirements of the American with Disability Act Accessibility Guidelines (ADAAG):
 - Forward Reach. The maximum height for forward reach shall be 48".
 - Side Reach. The maximum height for side reach shall be 48".
 - Operation. Controls and operating mechanisms shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate controls shall be no greater than 5 lbf.
- Construction joints are required to join curb ramps with sidewalks.
- All curb ramps shall be reinforced with 6x6 W1.4/W1.4 welded wire fabric.
- Surface of sidewalks and curb ramps shall be firm, stable, and slip-resistant. This includes the surfaces of pullboxes, valve covers, manhole covers, etc.
- Objects protruding from utility poles and walls adjacent to the sidewalks (i.e., wall mounted fire hydrants, telephones, meters on poles, etc.) shall be mounted to meet the current Americans with Disabilities Act Accessibility Guidelines (ADAAG) and will be subject to the Engineer's approval.
- If a curb ramp is not constructed according to the plans, the Contractor shall reconstruct the curb ramp at no cost to the State. Construction tolerance for Portland Cement Concrete shall be based on 1/4 inch per 10 feet ($\pm 0.2\%$). Remedial measures will not be accepted.
- The Contractor shall comply with City & County Jointing Policy (Memorandum No. CEB 1-09) dated April 6, 2009 for new sidewalks within City right-of-way.
- The Contractor shall construct curb ramps in accordance with City & County of Honolulu Standard Detail R-25A, unless indicated otherwise.

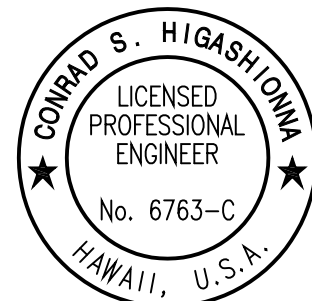
SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

Aug 28, 2020-15:00m
N:\CADD\DWG\2015\1512-Traffic Signal Modernization @ Various Locations P&E\FINAL\055 Curb Ramp Notes and Details.dwg

Approved By:

Chief, Civil Engineering Branch, DPP
(For Construction in CITY ROW Only)

Date



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Conrad Higashimura

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**CURB RAMP NOTES
AND DETAILS**

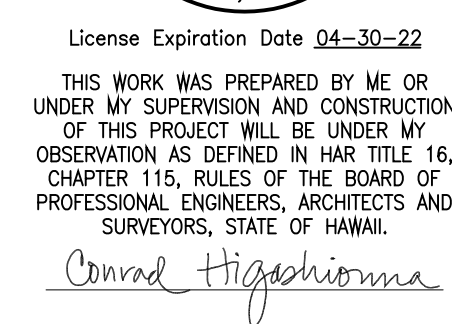
*Traffic Signal Modernization,
Oahu, Phase 1*

Federal-Aid Project No. STP-0300(163)

Scale: Date: July 2020

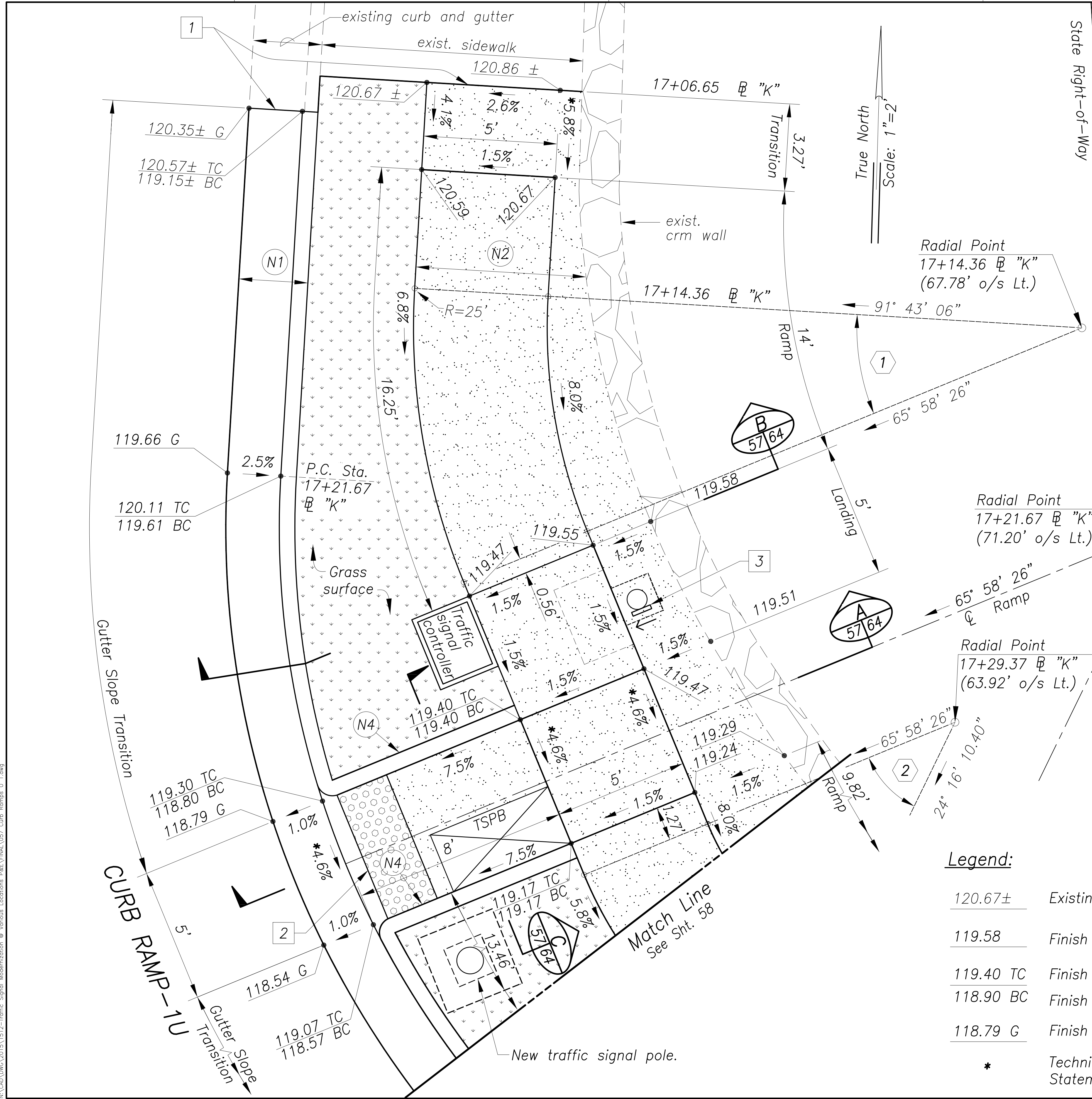
SHEET No. R-25 OF 65 SHEETS

ROW

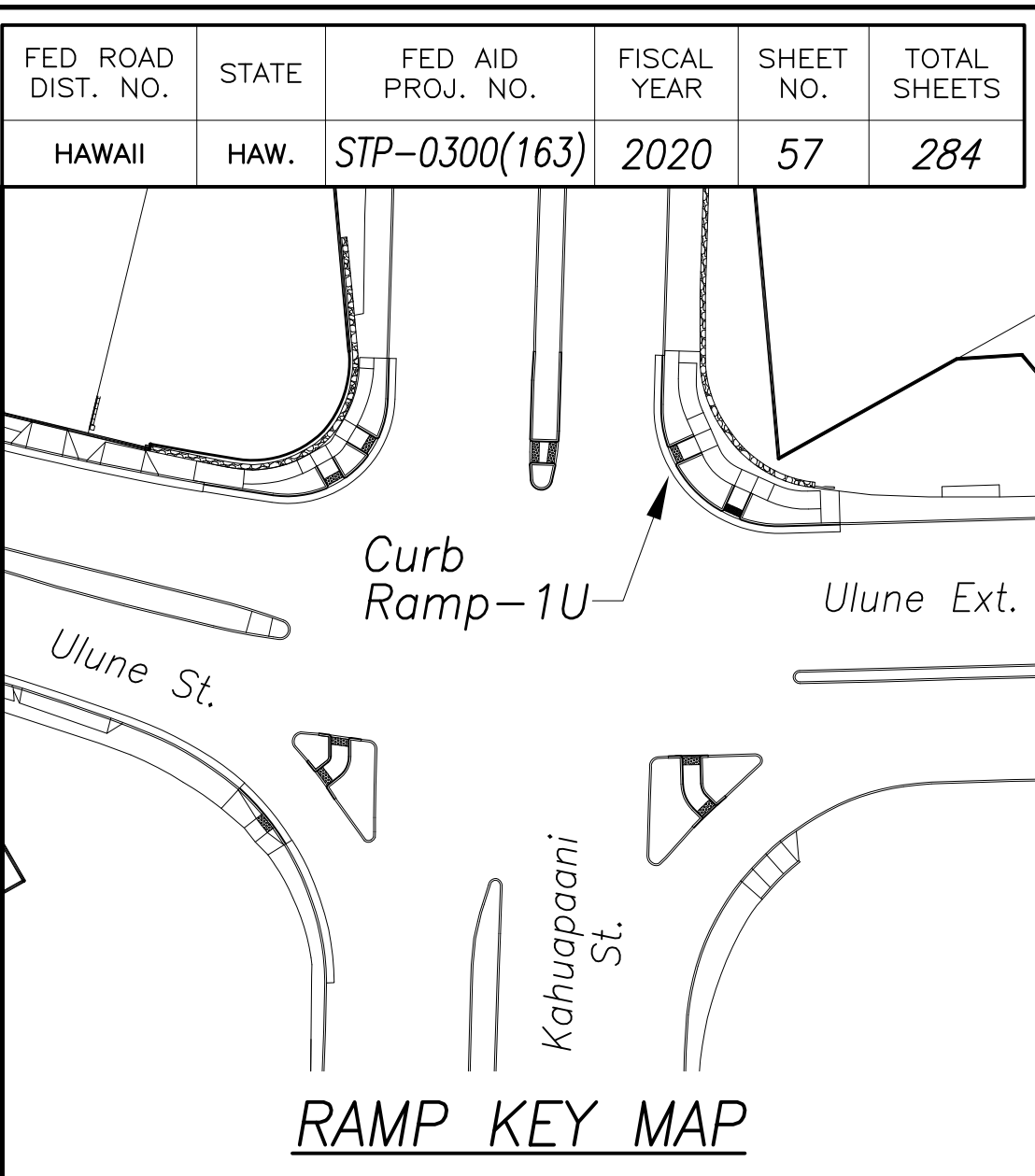


ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	
No.		

Aug 28, 2020 - 8:10am
N:\CAO\DWG\2015\1512-Traffic Signal Modernization @ Various Locations P&E\FINAL\057 Curb Ramps U 1.dwg



Curve Data		
	1	2
Δ	25° 44' 40"	41° 42' 15.6"
$\Delta/2$	12° 52' 20"	20° 51' 37.8"
R	25.00'	15.00'
T	5.76'	5.71'
Ch	11.22'	10.68'
Lc	11.23'	10.92'



Notes:

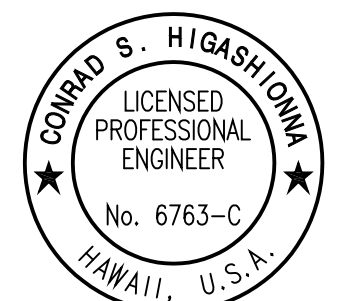
- 1 Neat saw cut. Match into existing sidewalk, curb, and gutter. Provide smooth riding connection.
- 2 Detectable Warning. All detectable warnings shall be cast-in-place and replaceable.
- 3 New pedestrian push button (PPB-1) mounted on pedestal.

New Construction Callouts:

- N1 Curb & Gutter, Type 2DG Modified. For connection to existing curb and gutter, see details on sheet 79.
- N2 Concrete Sidewalk per Standard Plan D-15. For connection to existing sidewalk, see details on sheet 79.
- N4 Curb, Type 2D Modified. For connection to existing curb, see details on sheet 79.

Legend:

- 120.67± Existing Elevation
- 119.58 Finish Elevation
- 119.40 TC Finish Top Curb Elevation
- 118.90 BC Finish Bottom Curb Elevation
- 118.79 G Finish Gutter Elevation
- * Technical Infeasibility Statement



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Conrad Higashimura

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CURB RAMP PLAN

Kahuapaani St & Ulune St

Traffic Signal Modernization,
Oahu, Phase 1
Federal-Aid Project No. STP-0300(163)
Scale: 1"=2' Date: July 2020
SHEET No. R-27 OF 65 SHEETS

Notes:

- 1 Neat saw cut. Match into existing sidewalk, curb, and gutter. Provide smooth riding connection.
- 2 Detectable Warning. All detectable warnings shall be cast-in-place and replaceable.
- 3 Remove existing street light pull box and install new Type B pullbox flush with finish grade. Maintain existing circuits and conduits.
- 4 New pedestrian push button (PPB-2) mounted on pedestal.

Radial Point

17+29.37 @ "K"
(63.92' o/s Lt.)

Radial Point

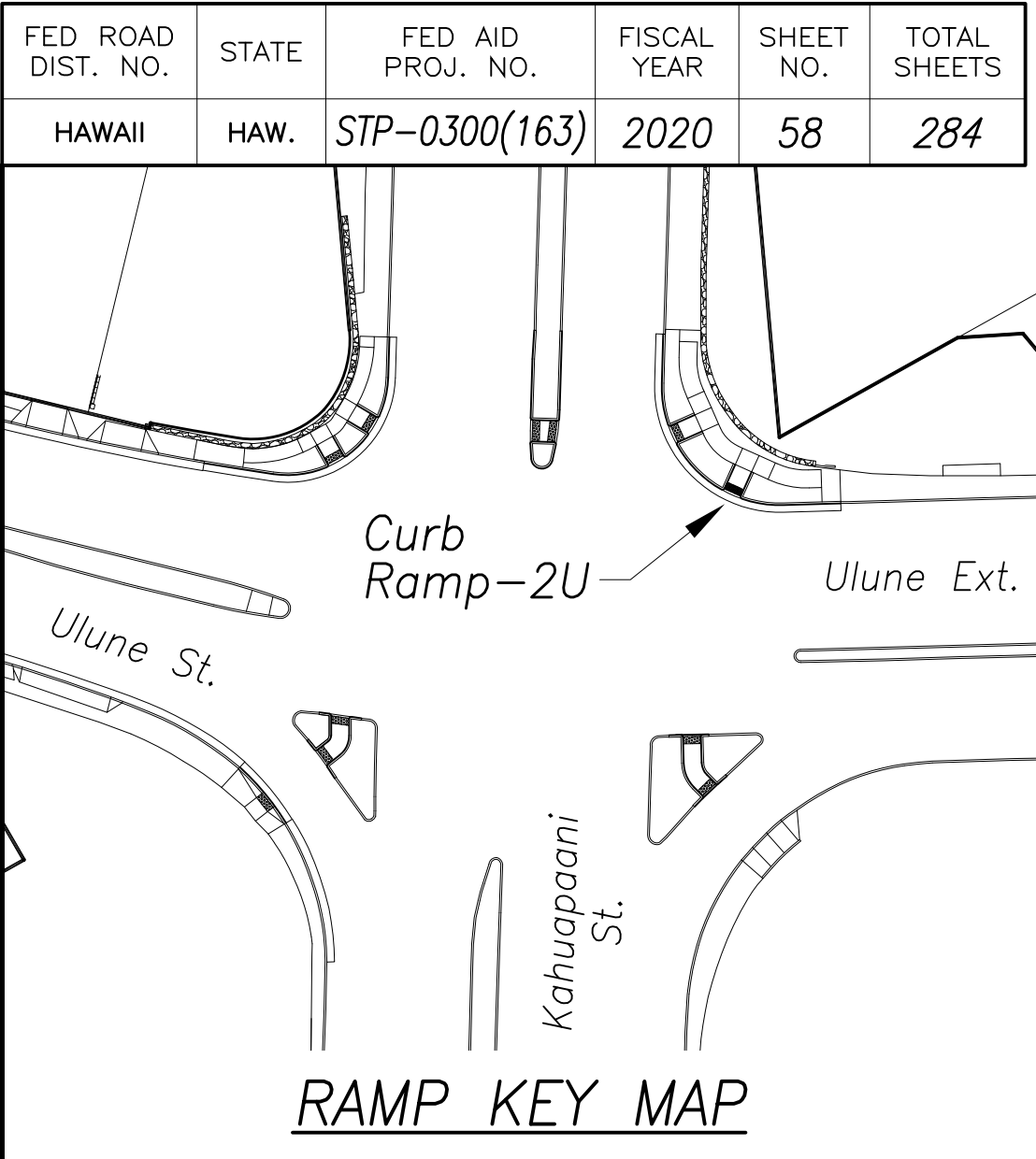
17+24.65 @ "K"
(78.63' o/s Lt.)

Radial Point

17+21.67 @ "K"
(71.20' o/s Lt.)

Curve Data

	3
Δ	25° 56' 07"
$\Delta/2$	12° 58' 03.5"
R	25.00'
T	5.76'
Ch	11.22'
Lc	11.32'



Legend:

120.67± Existing Elevation

119.58 Finish Elevation

119.40 TC Finish Top Curb Elevation

118.90 BC Finish Bottom Curb Elevation

118.79 G Finish Gutter Elevation

* Technical Infeasibility Statement

New Construction Callouts:

N1 Curb & Gutter, Type 2DG Modified. For connection to existing curb and gutter, see details on sheet 79.

N2 Concrete Sidewalk per Standard Plan D-15. For connection to existing sidewalk, see details on sheet 79.

N4 Curb, Type 2D Modified. For connection to existing curb, see details on sheet 79.

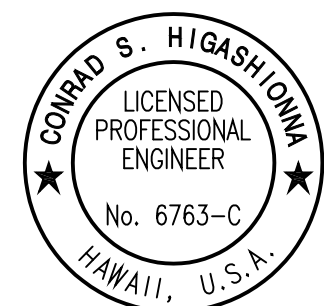
True North
Scale: 1"=2'

Gutter Slope Transition

CURB RAMP-2U

Similar

15.92' Gutter Slope Transition

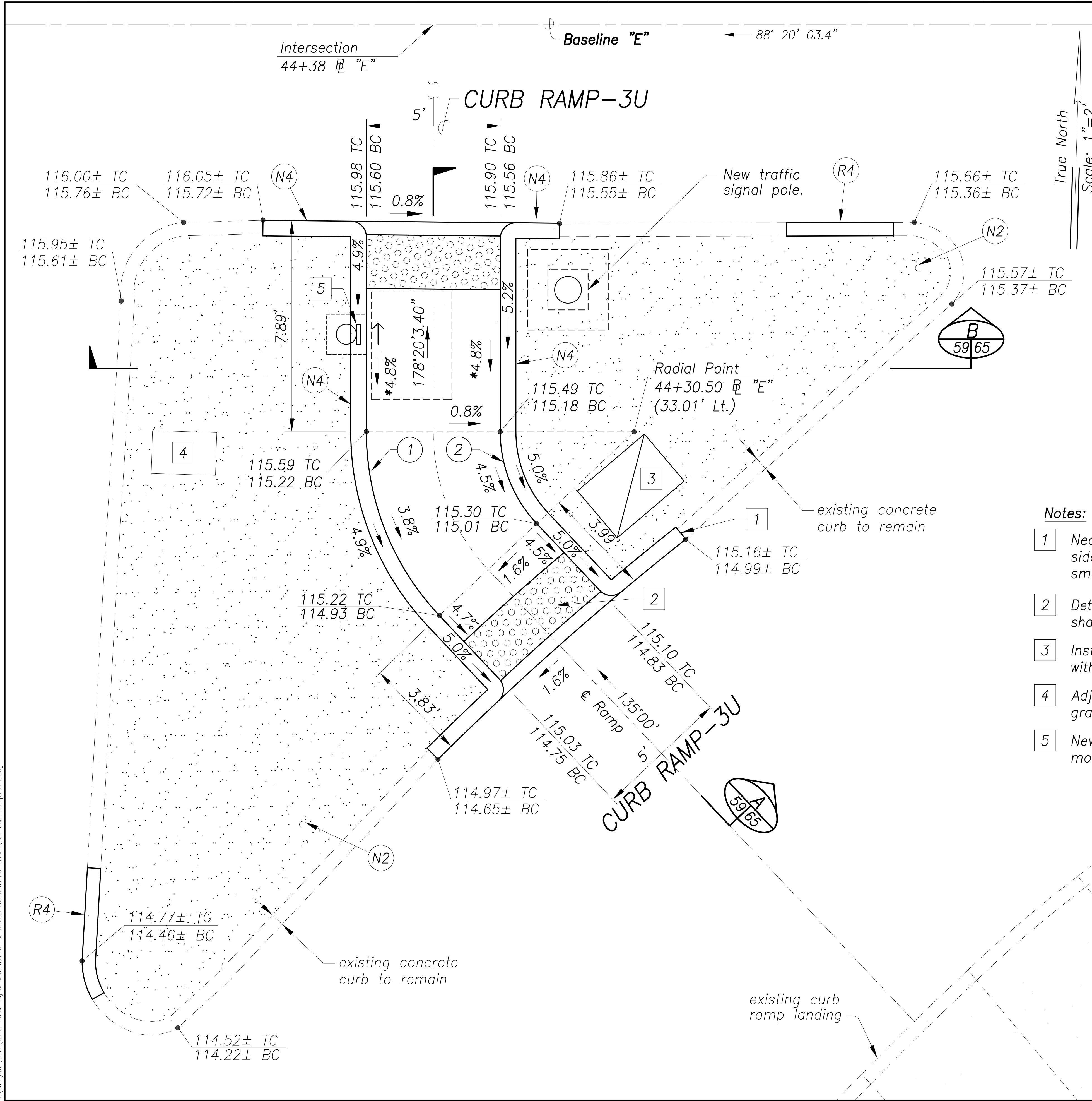


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Conrad Higashimura

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
CURB RAMP PLAN
Kahuapaani St & Ulune St
Traffic Signal Modernization,
Oahu, Phase 1
Federal-Aid Project No. STP-0300(163)
Scale: 1"=2' Date: July 2020
SHEET No. R-28 OF 65 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
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No.		

Aug 28, 2020-8:10am
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Curve Data			FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
Curve	①	②	HAWAII	HAW.	STP-0300(163)	2020	59	284
Δ	43° 20' 03.4"	43° 20' 03.4"						
$\Delta/2$	21° 40' 01.7"	21° 20' 01.7"						
R	10.00'	5.00'						
T	3.97'	1.99'						
Ch	7.38'	3.69'						
Lc	7.56'	3.78'						

Legend:

120.67± TC Exist. Top Curb Elev.
120.17± BC Exist. Bottom Curb Elev.

119.40 TC Finish Top Curb Elev.
118.90 BC Finish Bottom Curb Elev.

* Technical Infeasibility Statement

RAMP KEY MAP

Notes:

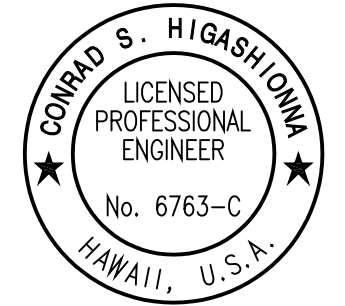
- 1 Neat saw cut. Match into existing sidewalk, curb, and gutter. Provide smooth riding connection. (Typical)
- 2 Detectable Warning. All detectable warnings shall be cast-in-place and replaceable.
- 3 Install new traffic signal pull box flush with finish grade.
- 4 Adjust street light pull box to finish grade.
- 5 New pedestrian push button (PPB-3) mounted on pedestal.

Pavement Reconstruction Over Trenching Callouts:

- R4 Curb, Type 2D Modified. 4 L.F. min. or as noted. For connection to existing curb, see details on sheet 79.

New Construction Callouts:

- N2 Concrete Sidewalk per Standard Plan D-15. For connection to existing sidewalk, see details on sheet 79.
- N4 Curb, Type 2D Modified. For connection to existing curb, see details on sheet 79.

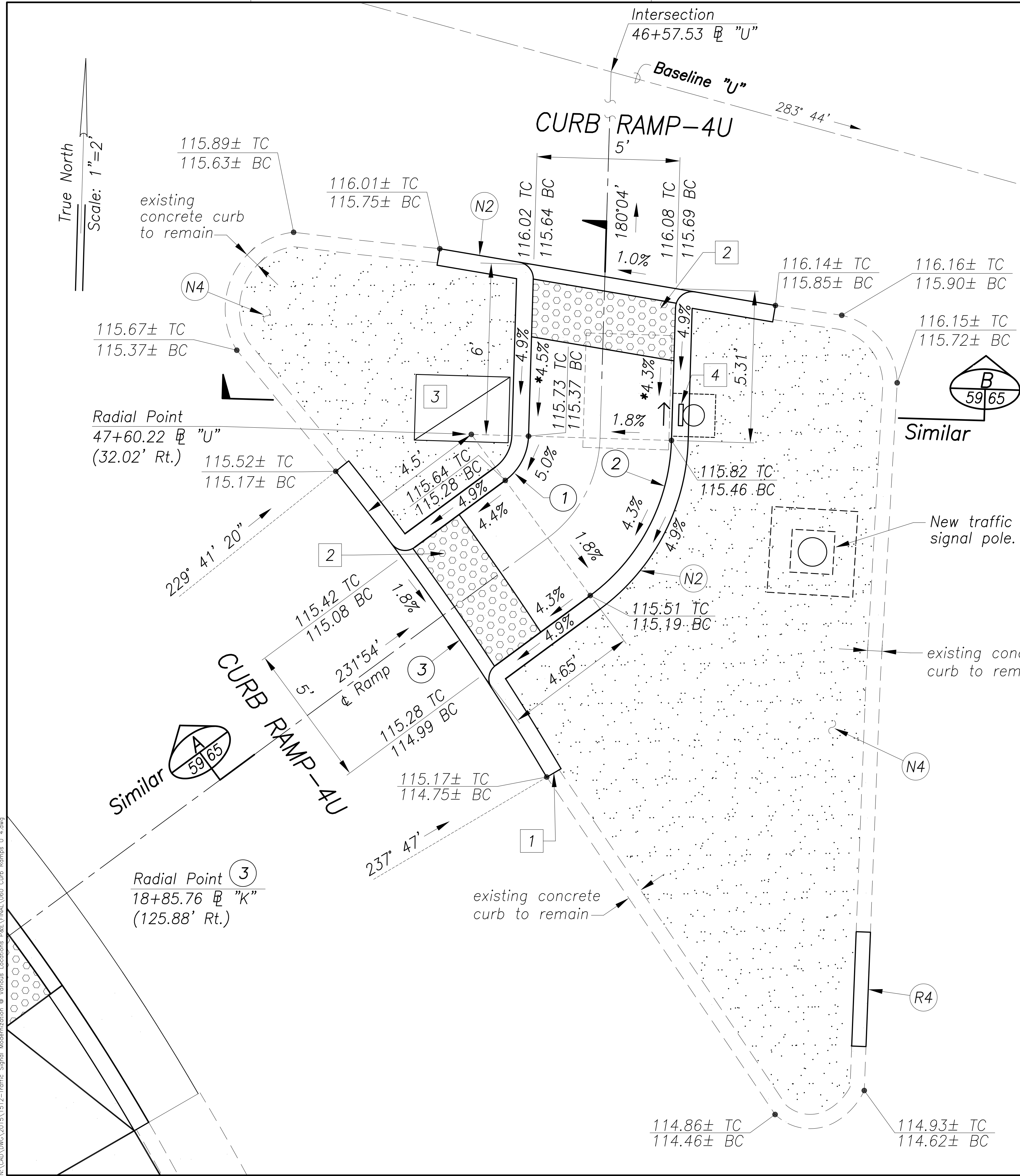


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Conrad Higashimura

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CURB RAMP PLAN
Kahuapaani St & Ulune St

Traffic Signal Modernization,
Oahu, Phase 1
Federal-Aid Project No. STP-0300(163)
Scale: 1"=2' Date: July 2020
SHEET No. R-29 OF 65 SHEETS



Pavement Reconstruction Over Trenching Callouts:

R4 Curb, Type 2D Modified. 4 L.F. min. or as noted. For connection to existing curb, see details on sheet 79.

New Construction Callouts:

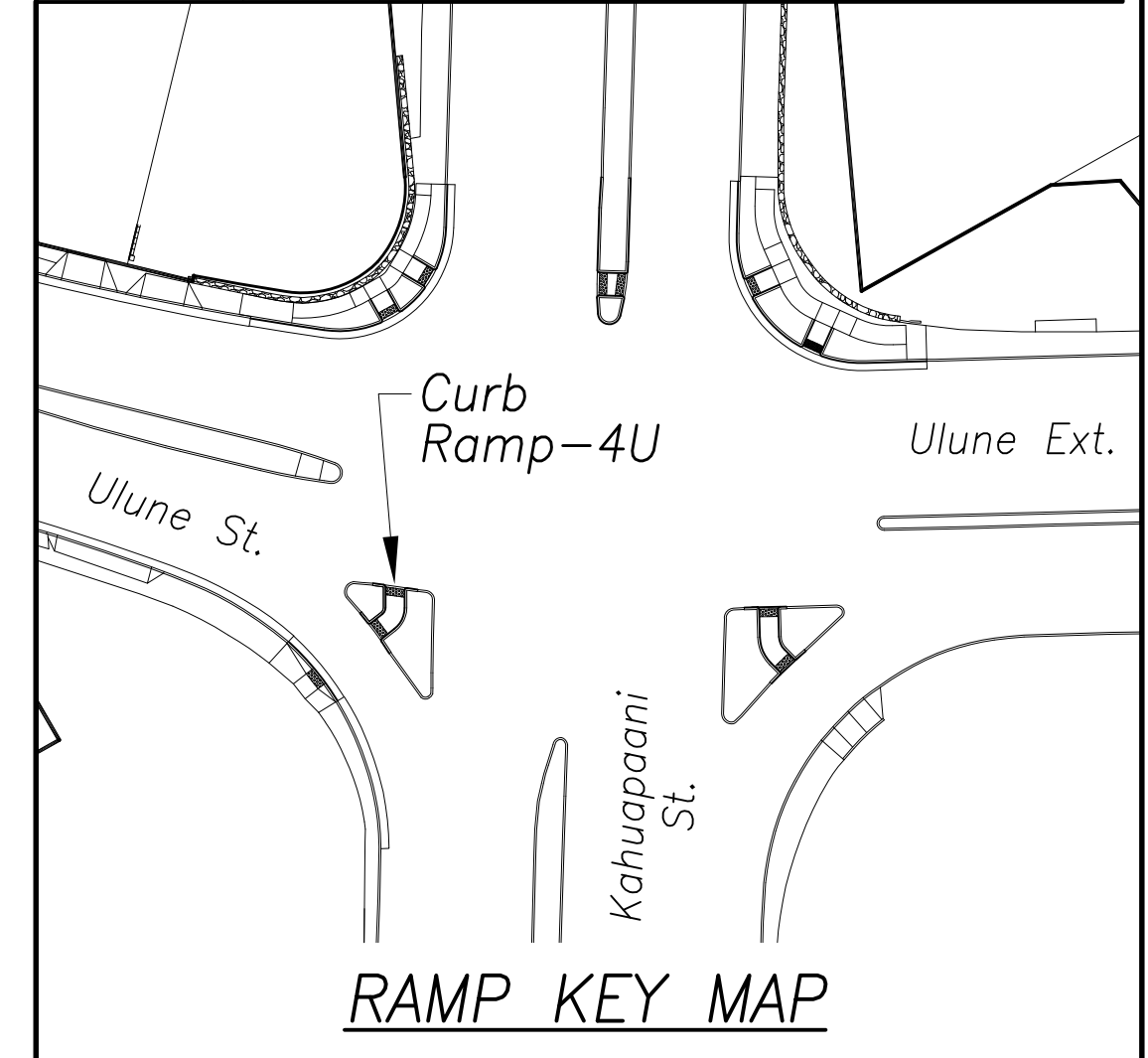
N2 Concrete Sidewalk per Standard Plan D-15.

N4 Curb, Type 2D Modified. For connection to existing curb, see details on sheet 79.

Notes:

- 1 Neat saw cut. Match into existing sidewalk, curb, and gutter. Provide smooth riding connection. (Typical)
- 2 Detectable Warning. All detectable warnings shall be cast-in-place and replaceable.
- 3 Install new traffic signal pull box flush with finish grade.
- 4 New pedestrian push button (PPB-4) mounted on pedestal.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0300(163)	2020	60	284



Curve Data

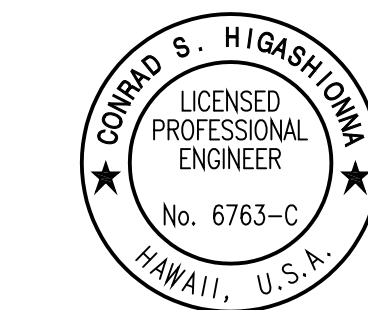
Curve	①	②	③
Δ	51° 50' 00"	51° 50' 00"	8° 05' 40"
$\Delta/2$	25° 55' 00"	25° 55' 00"	4° 02' 50"
R	2.00'	7.00'	92.00'
T	0.97'	3.40'	6.51'
Ch	1.75'	6.12'	12.99'
Lc	1.81'	6.33'	13.00'

Legend:

- 120.67± TC Existing Top Curb Elevation
 120.67± BC Existing Bottom Curb Elevation
- 119.40 TC Finish Top Curb Elevation
 118.90 BC Finish Bottom Curb Elevation
- * Technical Infeasibility Statement

ORIGINAL PLAN	DATE
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Aug 28, 2020-8:10am
N:\CADD\DWG\2015\1512-Traffic Signal Modernization @ Various Locations P&E\FINAL\060 Curb Ramps U 4.dwg



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Conrad Higashimura

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

CURB RAMP PLAN
Kahuapaani St & Ulune St

Traffic Signal Modernization,
 Oahu, Phase 1
 Federal-Aid Project No. STP-0300(163)

Scale: 1"=2' Date: July 2020

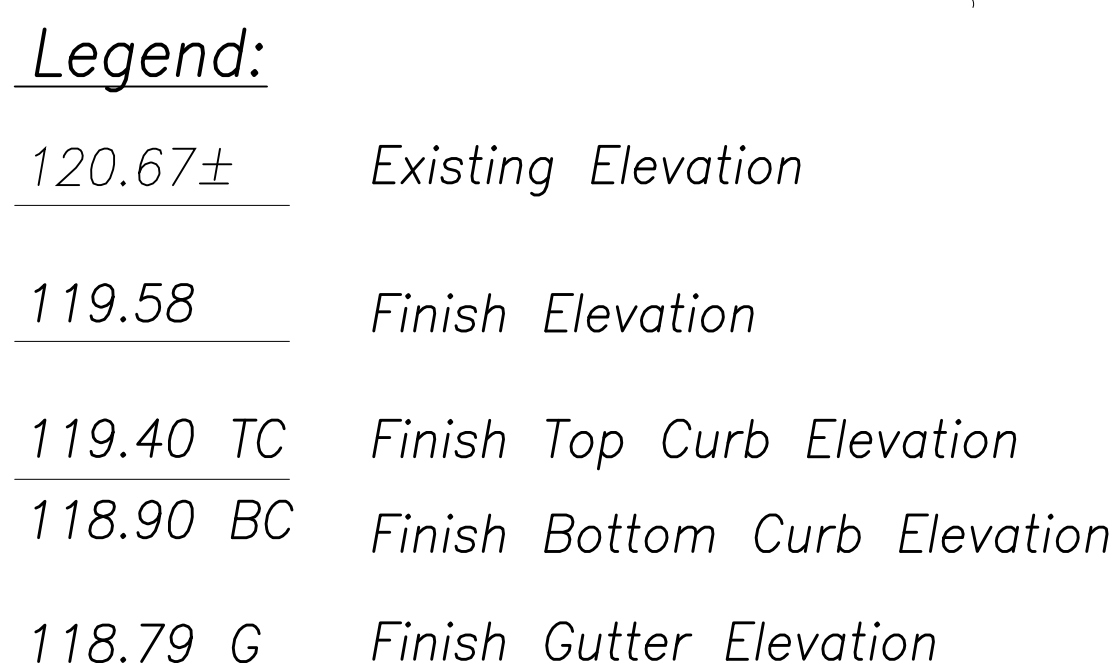
SHEET No. R-30 OF 65 SHEETS

The diagram is a technical drawing of a road intersection and ramp. It features several labeled components: 'Curb Ramp - 5U' pointing to a specific section of the ramp, 'Ulune St.' labeling the main road, 'Kahugaani St.' labeling the intersecting road, and 'Ulune Ext' indicating an extension. The drawing uses various line styles and geometric shapes to represent the physical layout of the road, including curves, straight sections, and the ramp itself. A north arrow is present in the upper right corner.

(N1) *Curb & Gutter, Type 2DG Modified. For connection to existing curb and gutter, see details on sheet 79.*

(N2) *Concrete Sidewalk per Standard Plan D-15. For connection to existing sidewalk, see details on sheet 79.*

- 1 Neat saw cut. Match into existing sidewalk, curb, and gutter. Provide smooth riding connection. (Typical)
- 2 Detectable Warning. All detectable warnings shall be cast-in-place and replaceable.



Radial Point
18+87.46 @ "K"
(123.66' Rt.)

Aug. 28, 2020-6:11am
N:\CAD\DWG\2015\1512-Traffic Signal Modernization @ Various Locations P&E\FINAL\061 Cub Ramps U 5.dwg

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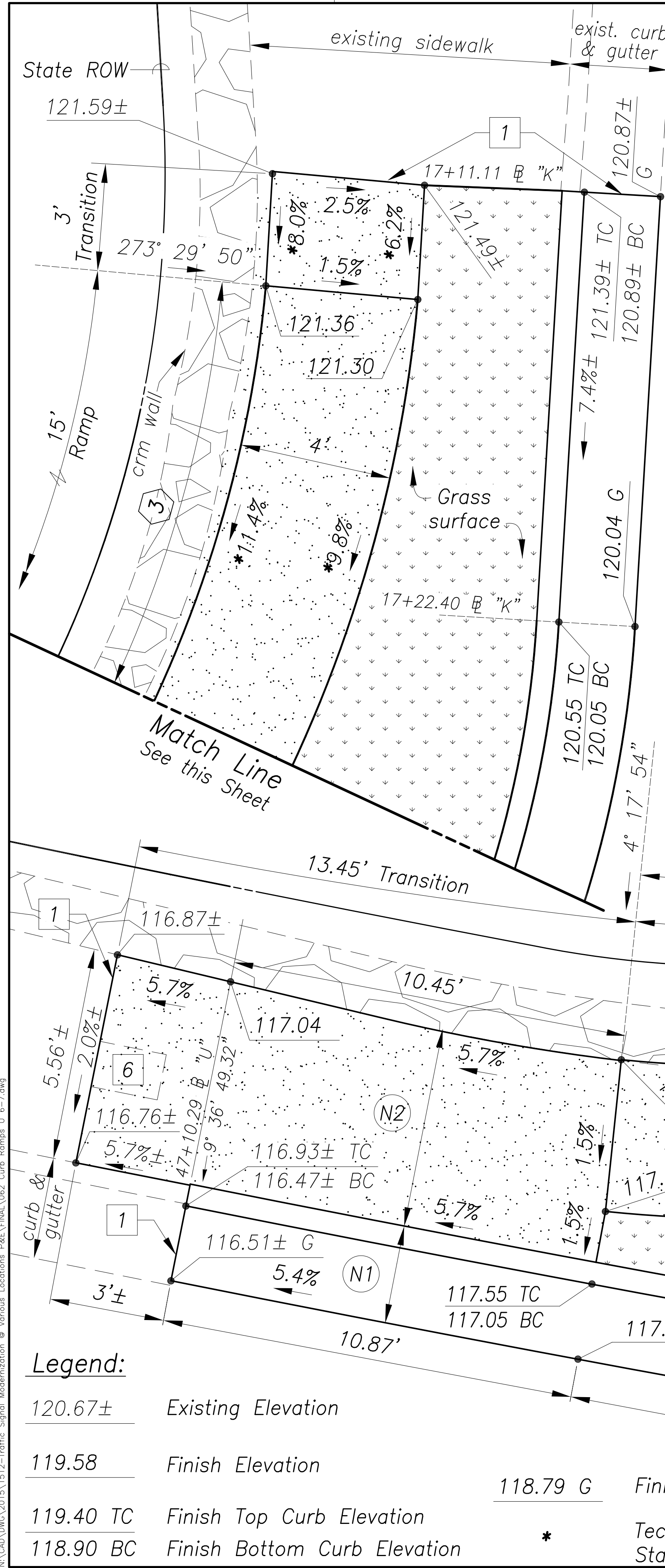
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Conrad Higashionna

61

Aug 28, 2020-6:10pm
N:\CAO\DWG\2015\1512-Traffic Signal Modernization @ Various Locations P&E\FINAL\082 Curb Ramps U 6-7.dwg

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



Legend:

120.67±	Existing Elevation	
119.58	Finish Elevation	
119.40 TC	Finish Top Curb Elevation	
118.90 BC	Finish Bottom Curb Elevation	
118.79 G	Finish Gutter Elevation	
*	Technical Infeasibility Statement	

Notes:

- 1 Neat saw cut. Match into existing sidewalk, curb, and gutter. Provide smooth riding connection. (Typical)
- 2 Detectable Warning. All detectable warnings shall be cast-in-place and replaceable.
- 3 Install new traffic signal pull box flush with finish grade.
- 4 New pedestrian push button (PPB-5) mounted on pedestal.
- 5 New pedestrian push button (PPB-6) mounted on Type I traffic signal standard.

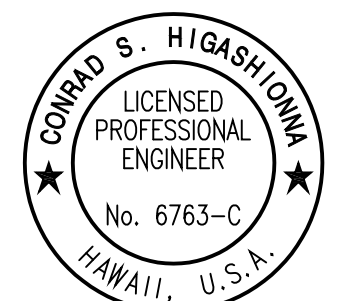
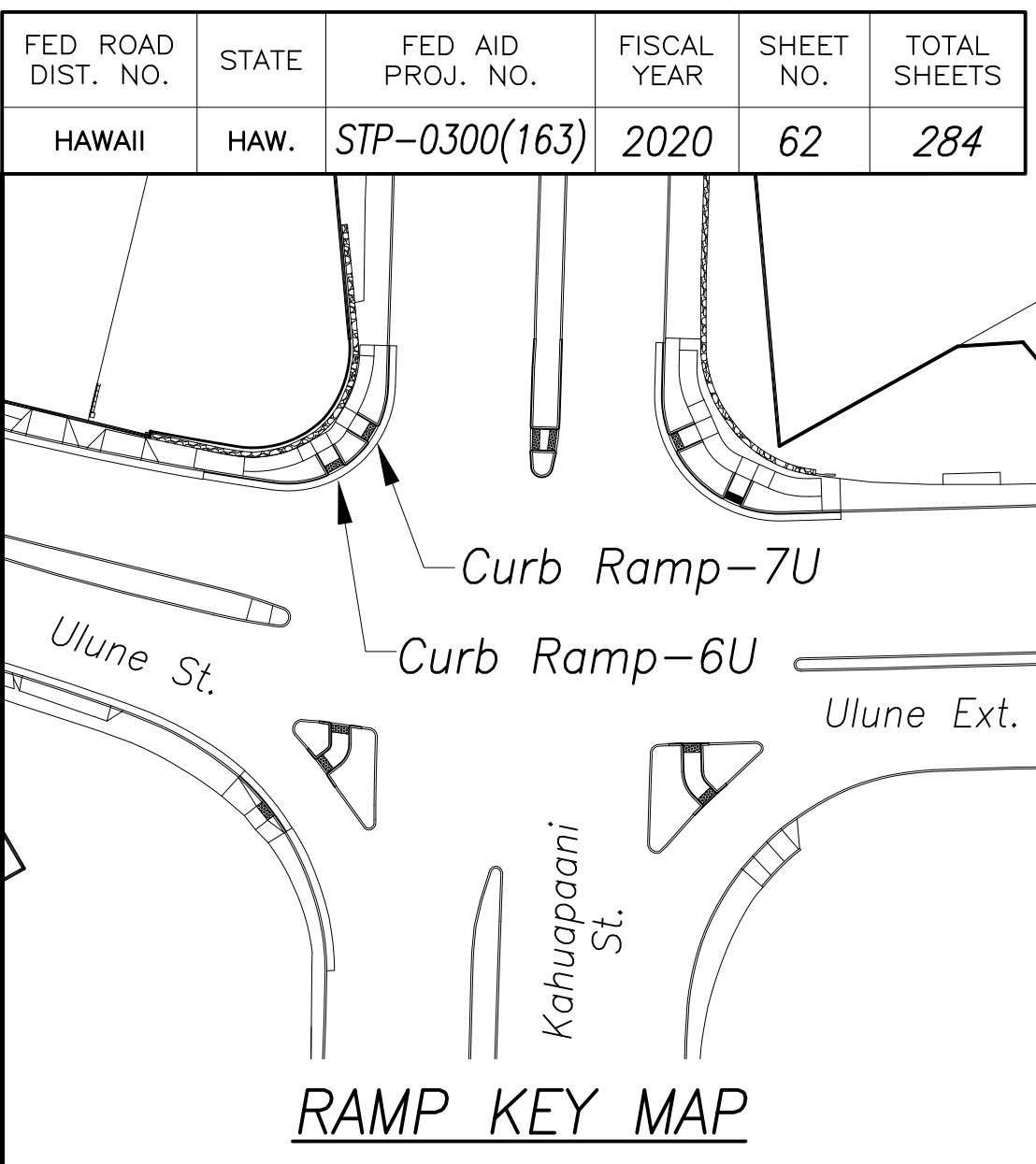
New Construction Callouts:

- N1 Curb & Gutter, Type 2DG Modified. For connection to existing curb and gutter, see details on sheet 79.
- N2 Concrete Sidewalk per Standard Plan D-15. For connection to existing sidewalk, see details on sheet 79.
- N4 Curb, Type 2D Modified.

Notes continued:

- 6 Existing traffic signal pull box to be removed.

Curve Data			
	1	2	3
Δ	31° 37' 00"	29° 54' 12"	25° 26' 00"
Δ/2	15° 48' 30"	14° 57' 06"	12° 43' 00"
R	34.61'	8.00'	36.77'
T	10.45'	2.14'	8.30'
Ch	20.02'	4.13'	16.19'
Lc	20.31'	4.18'	16.32'
Radial Point	17+12.68 @ "K"	17+32.11 @ "K"	17+13.04 @ "K"
	75.98' Rt.	56.65' Rt.	78.95' Rt.



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

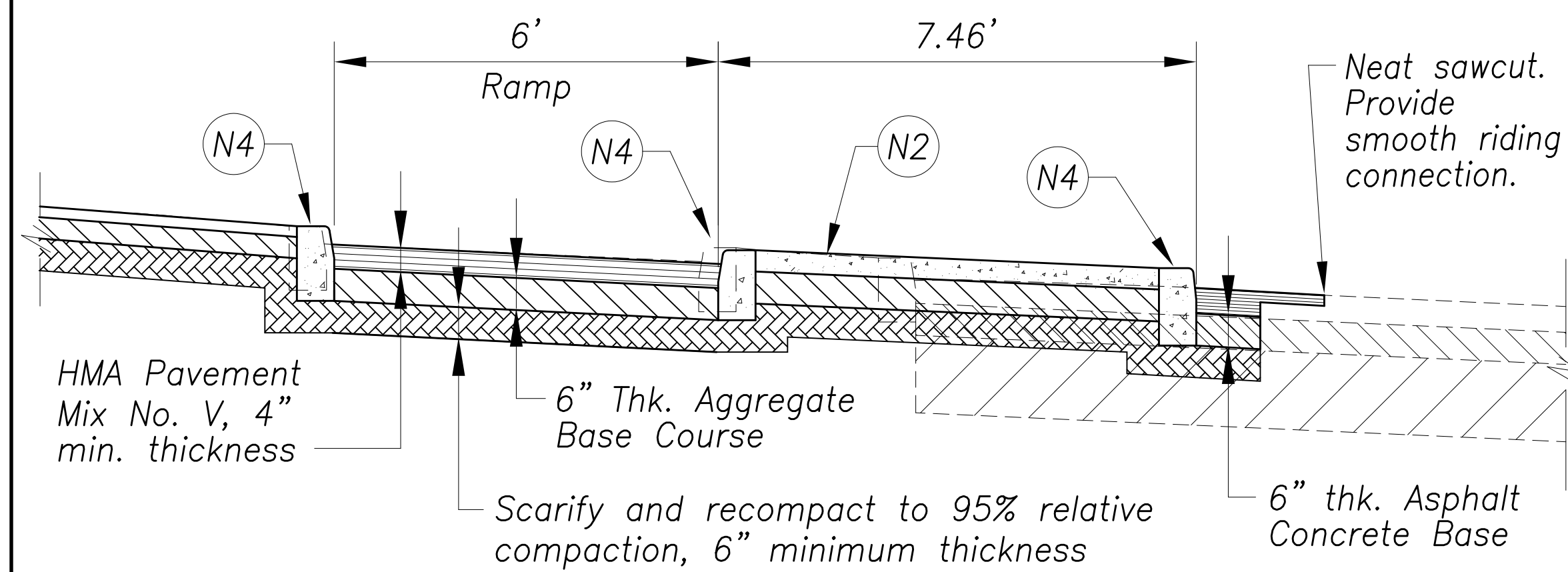
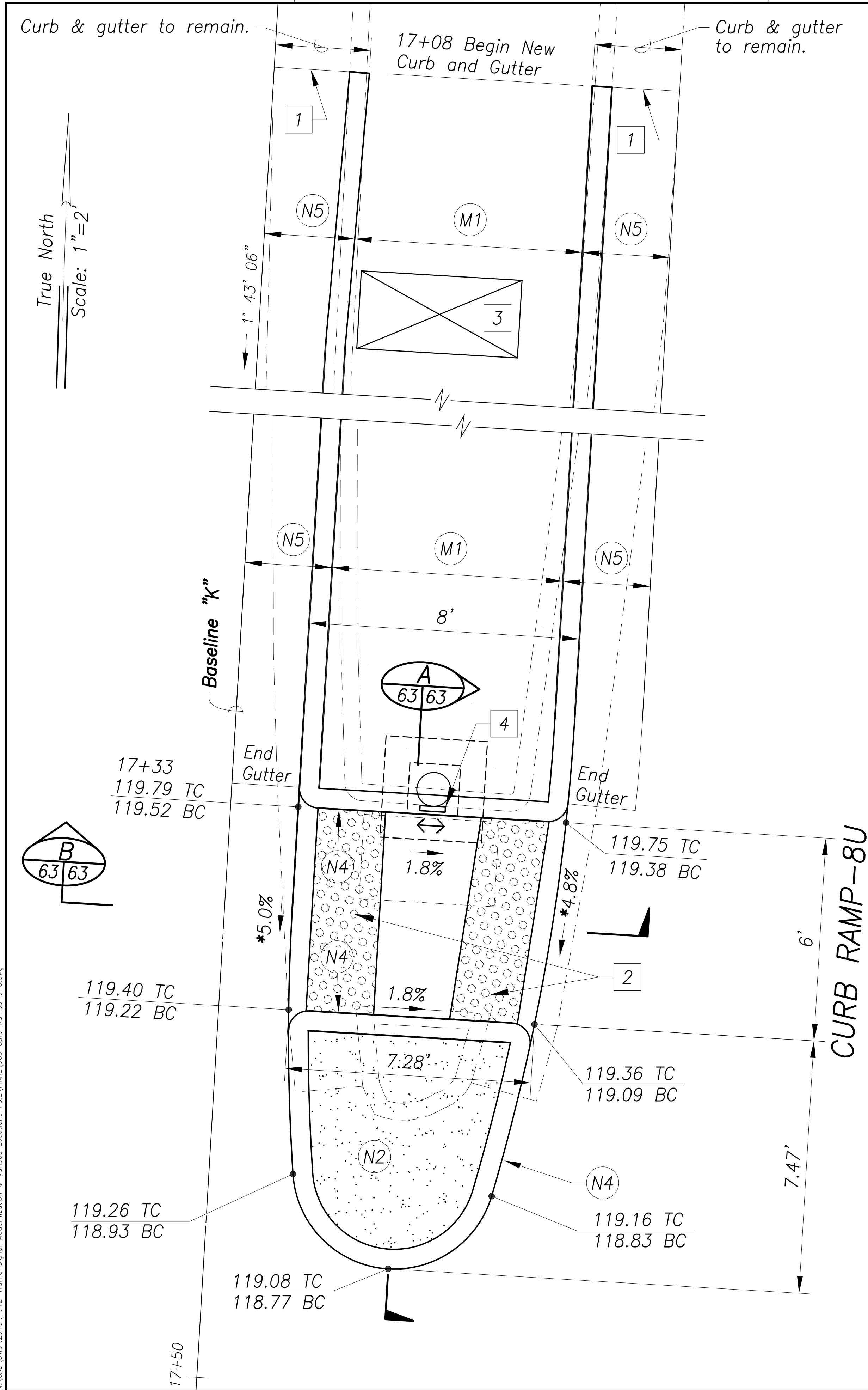
CURB RAMP PLAN
Kahuapaani St & Ulune St

Traffic Signal Modernization,
Oahu, Phase 1

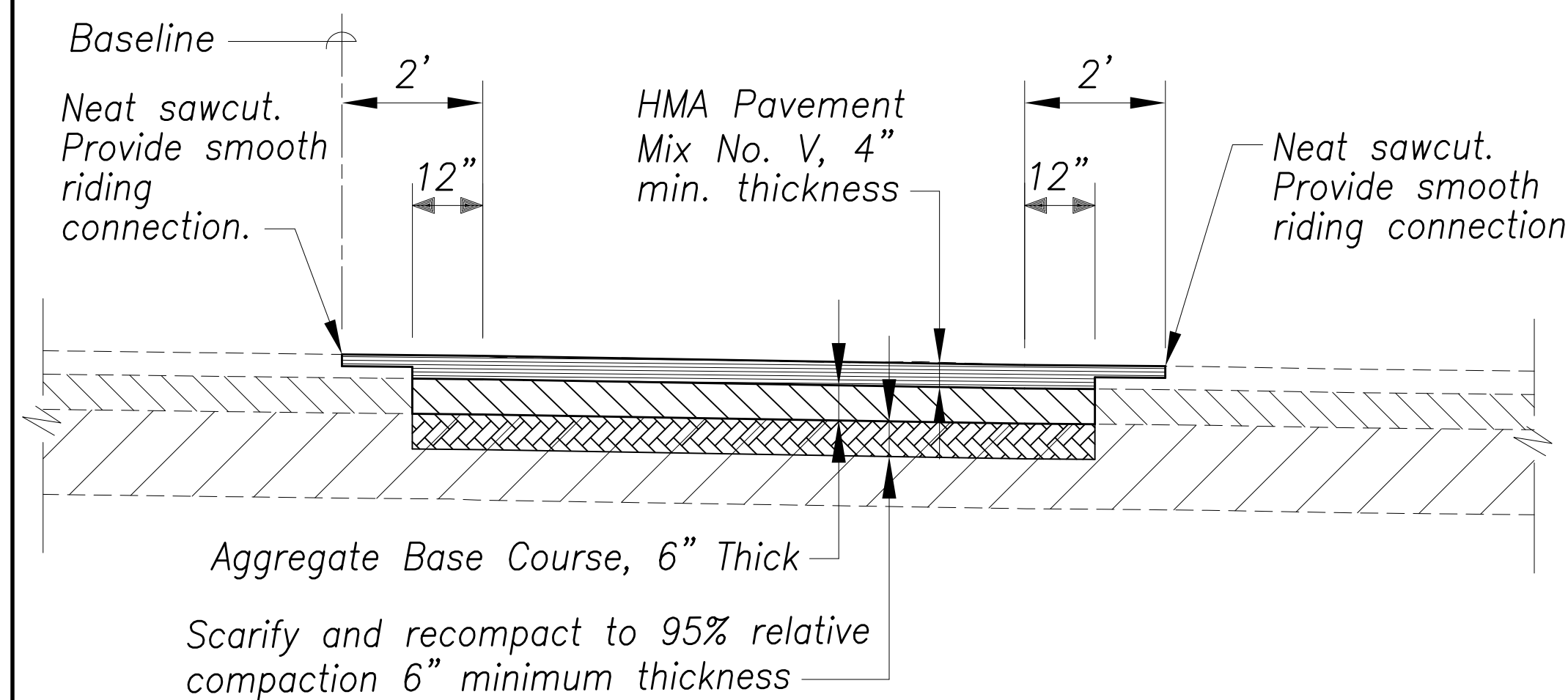
Federal-Aid Project No. STP-0300(163)

Scale: 1"=2' Date: July 2020

SHEET No. R-32 OF 65 SHEETS



SECTION A
Scale: 1/2"=1'-0"



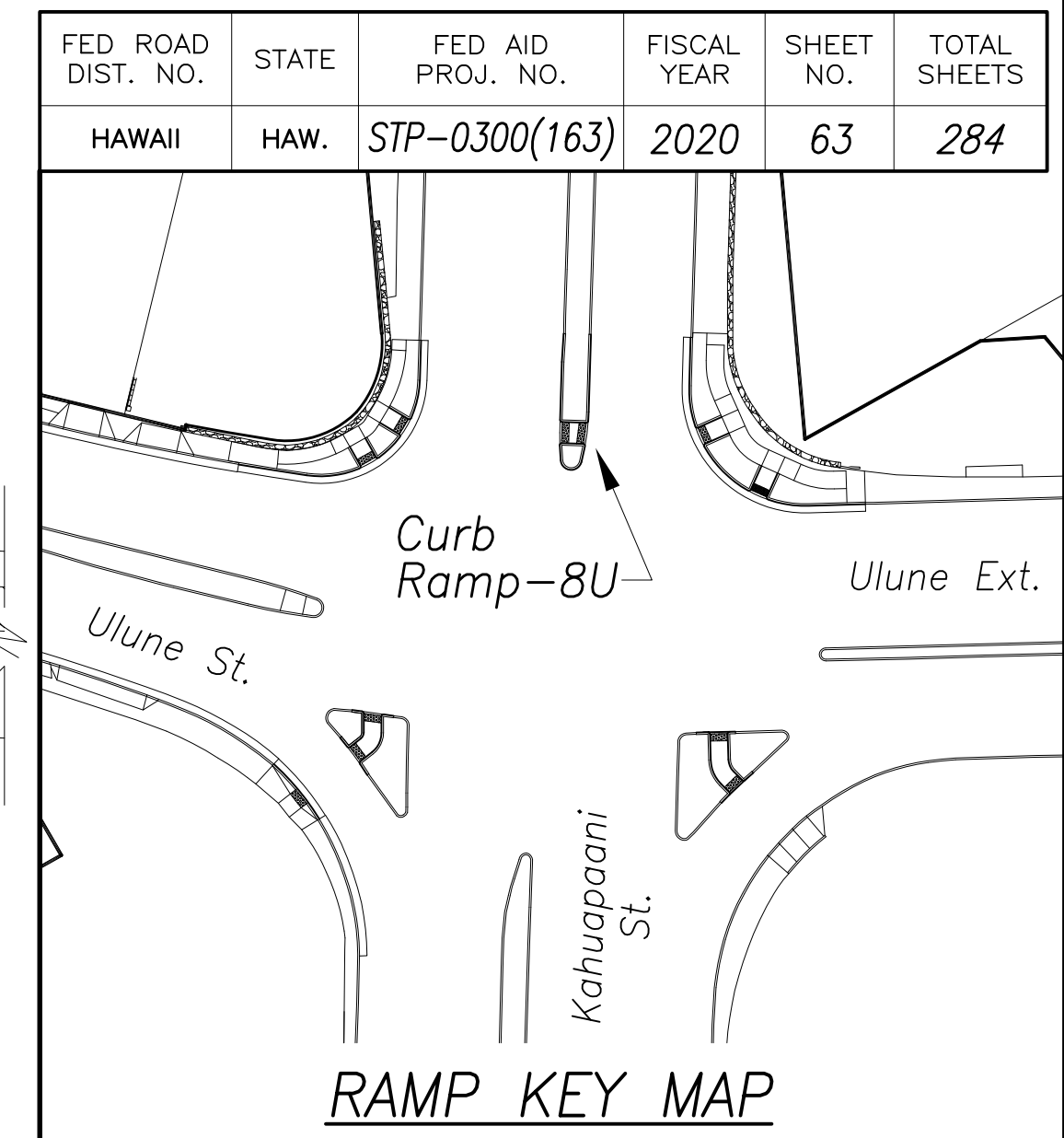
SECTION B
Scale: 1/2"=1'-0"

New Construction Callouts:

- (N2) Concrete Sidewalk per Standard Plan D-15.
- (N4) Curb, Type 2D Modified.
- (N5) Curb & Gutter, Type 2DG Modified. For connection to existing curb and gutter, see details on sheet 79 and Section A.

Median Reconstruction Over Trenching Callouts:

- (M1) Limits of asphalt pavement restoration over trenching in medians and/or islands. See detail A.



Legend:

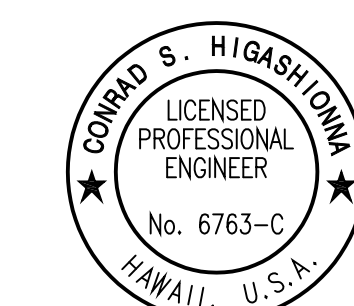
- 119.40 TC Finish Top Curb Elevation
- 118.90 BC Finish Bottom Curb Elevation
- * Technical Infeasibility Statement

Notes:

- 1 Neat saw cut. Match into existing sidewalk, curb, and gutter. Provide smooth riding connection. (Typical)
- 2 Detectable Warning. All detectable warnings shall be cast-in-place and replaceable.
- 3 Install new traffic signal pull box flush with finish grade.
- 4 New pedestrian push button (PPB-7) mounted on Type I traffic signal standard.

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

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N:\CAO\DWG\2015\1512-Traffic Signal Modernization @ Various Locations P&E\FINAL\063 Curb Ramps U 8.dwg



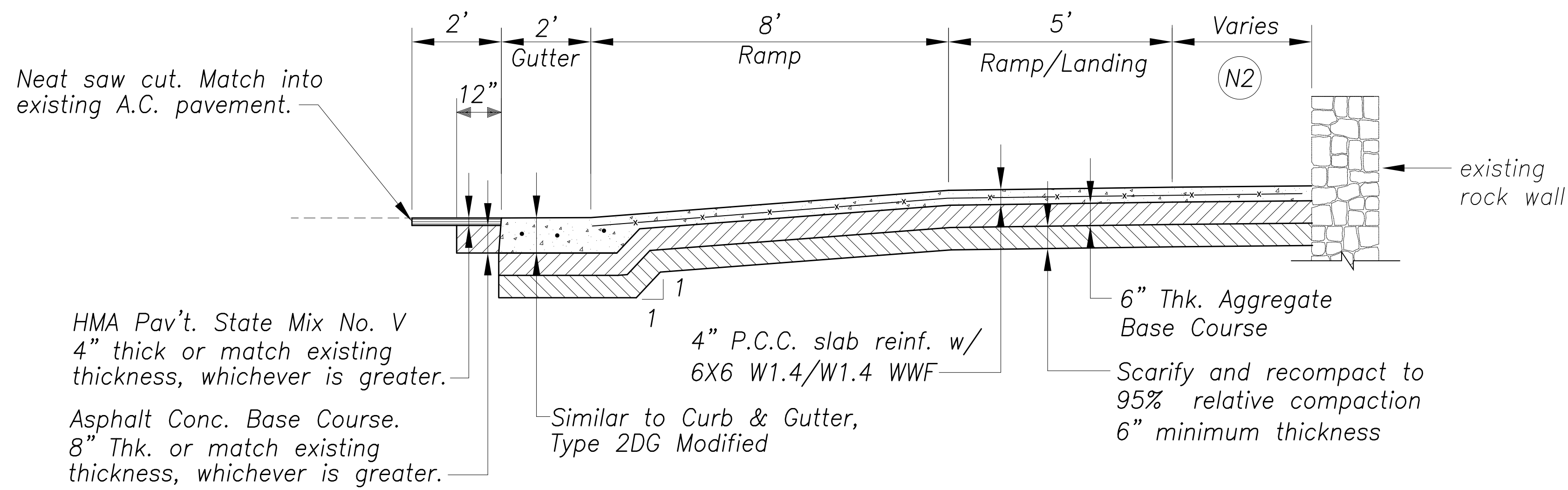
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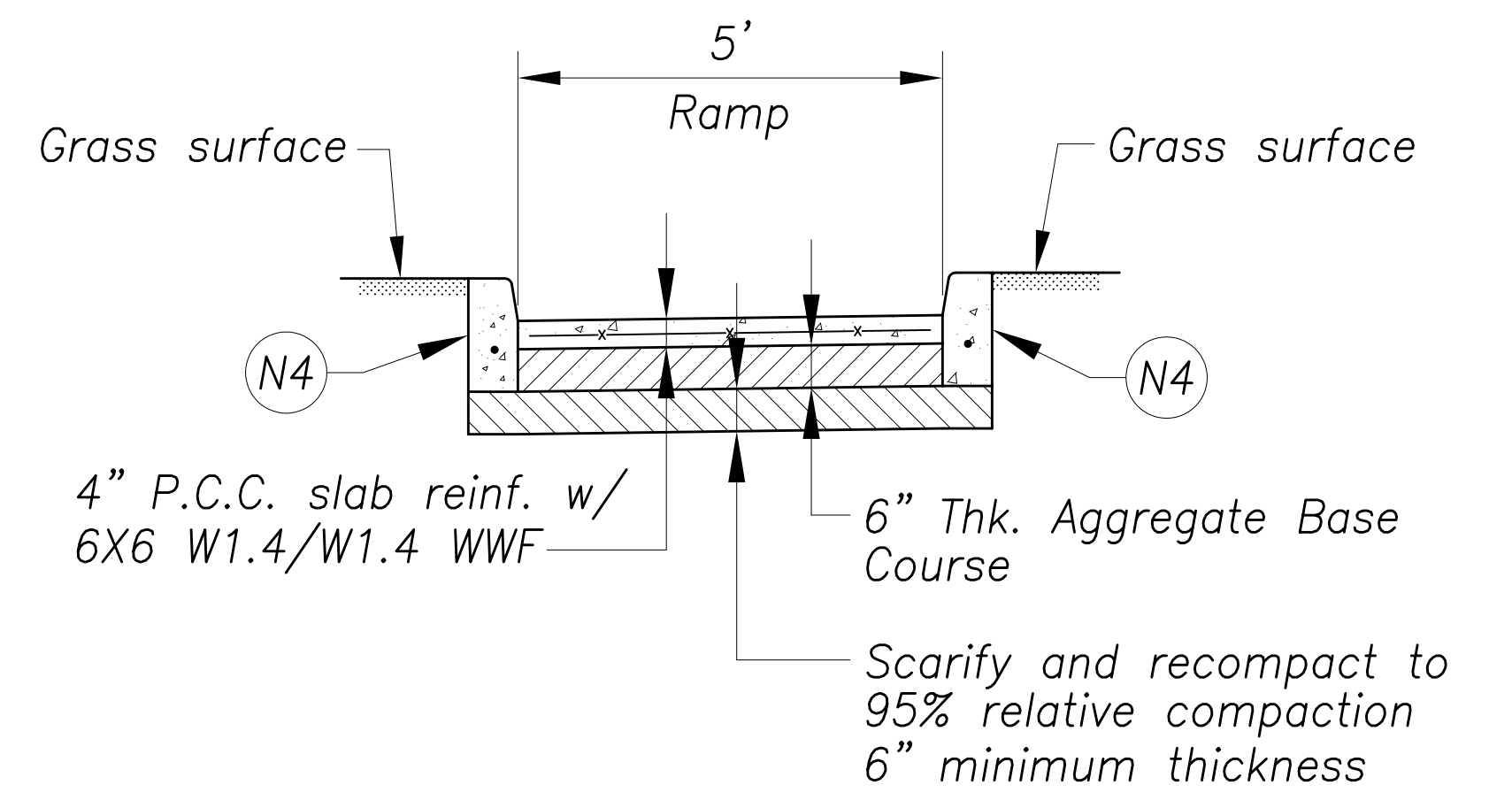
CURB RAMP PLAN
Kahupaani St & Ulune St

Traffic Signal Modernization,
Oahu, Phase 1
Federal-Aid Project No. STP-0300(163)
Scale: 1"=2' Date: July 2020
SHEET No. R-33 OF 65 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0300(163)	2020	64	284



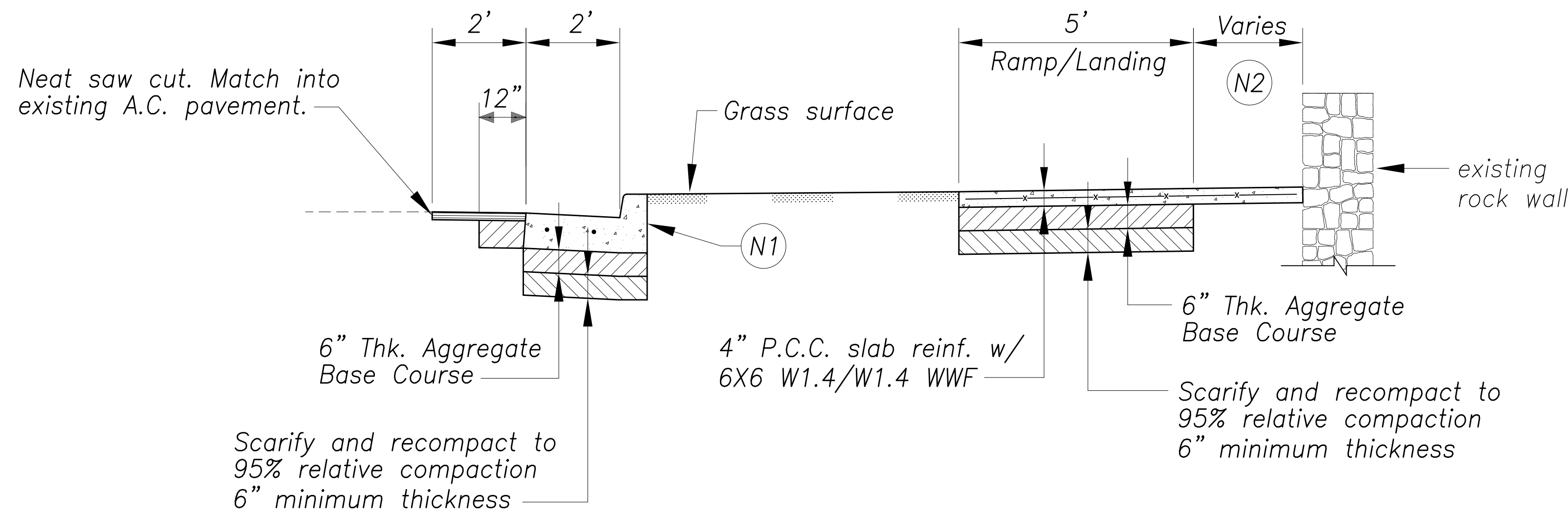
SECTION A
Scale: 1/2"=1'-0"
57,58,62



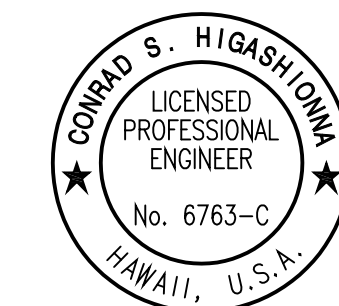
SECTION C
Scale: 1/2"=1'-0"
57,58,62

New Construction Callouts:

- N1 Curb & Gutter, Type 2DG Modified. For connection to existing curb and gutter, see details on sheet 75.
- N2 Concrete Sidewalk per Standard Plan D-15. For connection to existing sidewalk, see details on sheet 75.
- N4 Curb, Type 2D Modified. For connection to existing curb and gutter, see details on sheet 75.



SECTION B
Scale: 1/2"=1'-0"
57,58,62



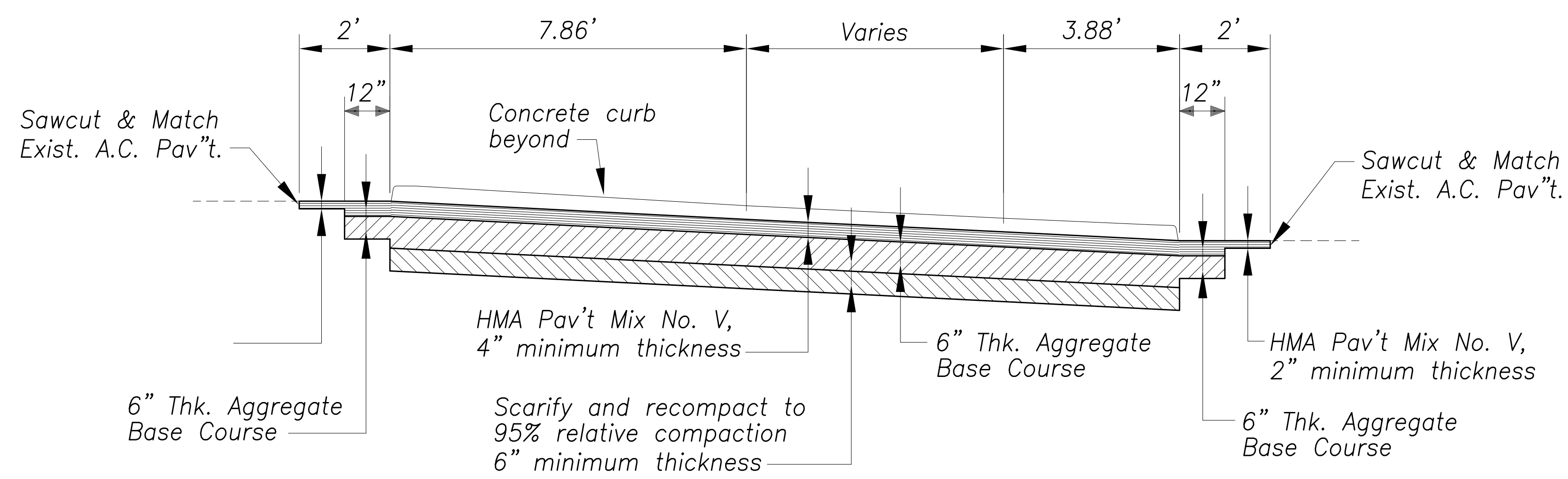
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Conrad Higashimura

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
CURB RAMP PLAN
Kahuapaani St & Ulune St
Traffic Signal Modernization,
Oahu, Phase 1
Federal-Aid Project No. STP-0300(163)
Scale: _____ Date: July 2020
SHEET No. R-34 OF 65 SHEETS

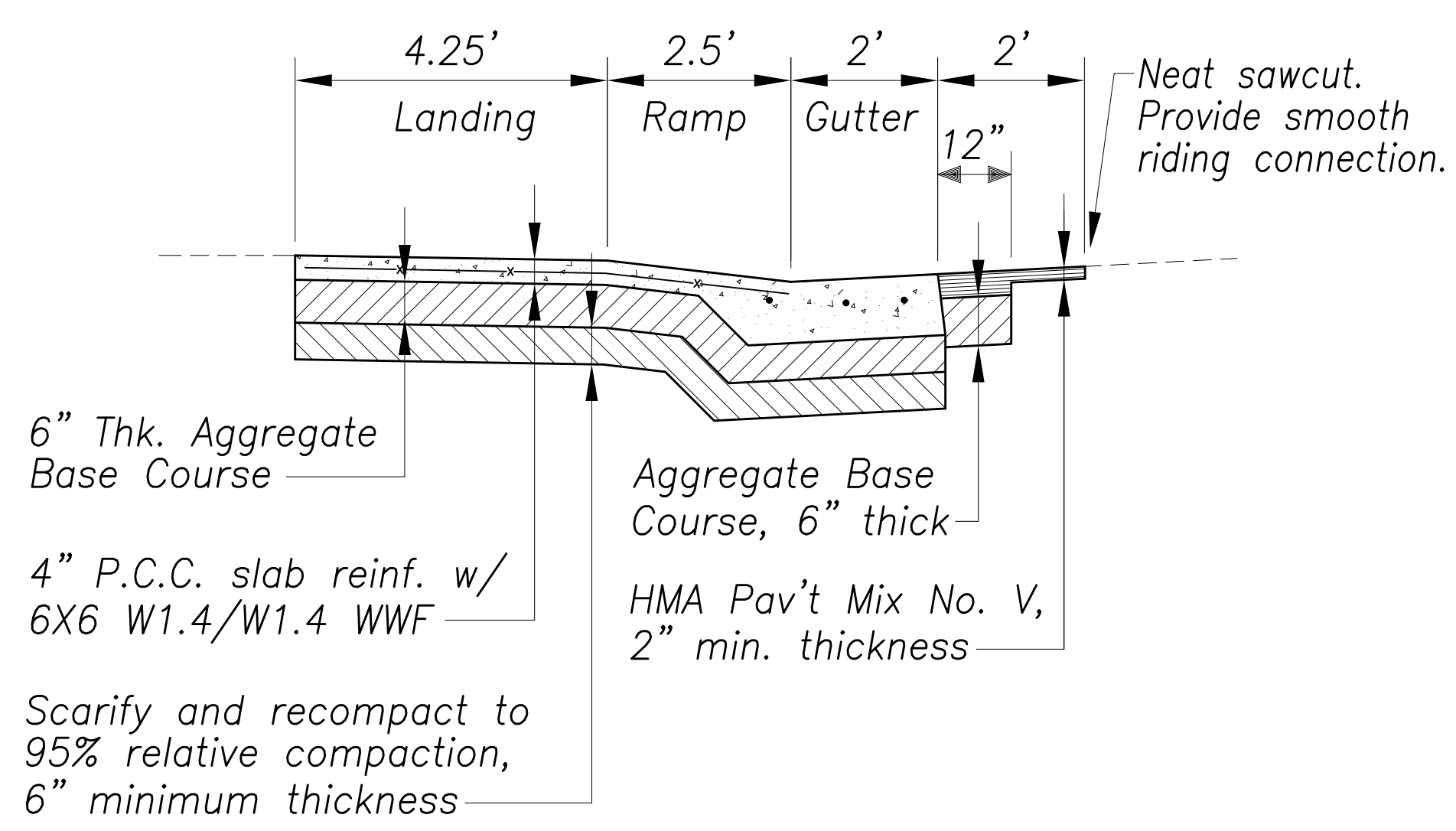
SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

Aug 28, 2020-6:11pm
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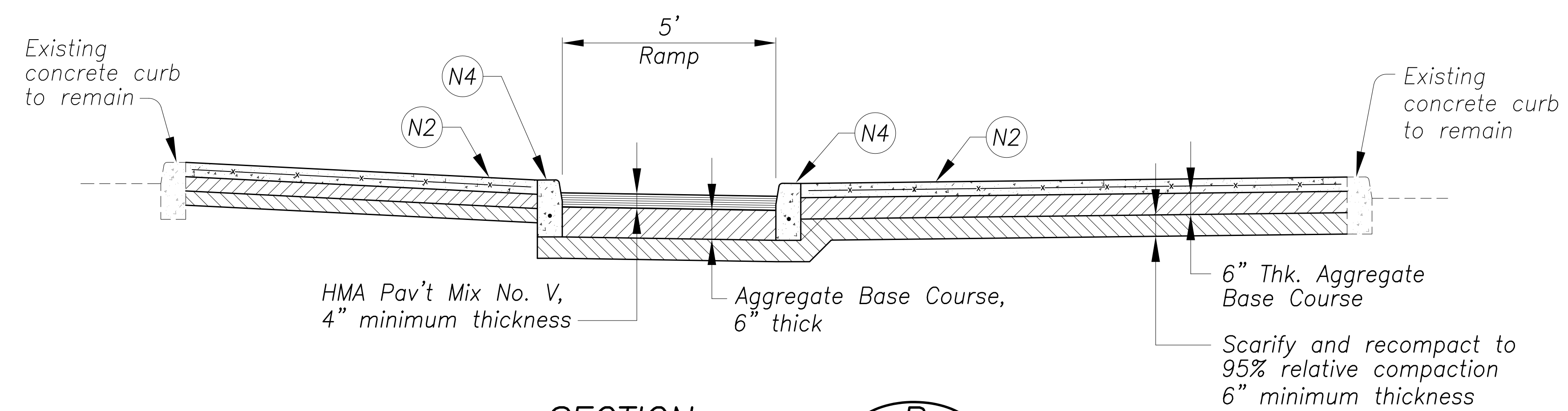
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0300(163)	2020	65	284



SECTION A
Scale: 1/2"=1'-0" 59,60 | 65



SECTION C
Scale: 1/2"=1'-0" 61 | 65



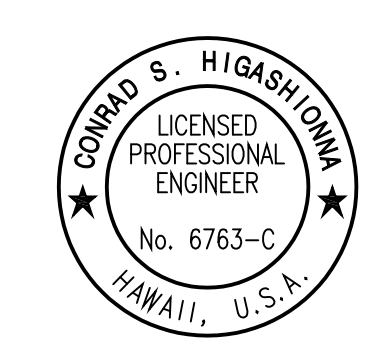
SECTION B
Scale: 1/2"=1'-0" 59,60 | 65

New Construction Callouts:

- N2 Concrete Sidewalk per Standard Plan D-15.
- N4 Curb, Type 2D Modified. For connection to existing curb, see details on sheet 79.

SURVEY PLOTTED BY	DATE
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DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CURB RAMP PLAN
Kahuapaani St & Ulune St

Traffic Signal Modernization,
Oahu, Phase 1

Federal-Aid Project No. STP-0300(163)

Scale: 1/2"=1'-0" Date: July 2020

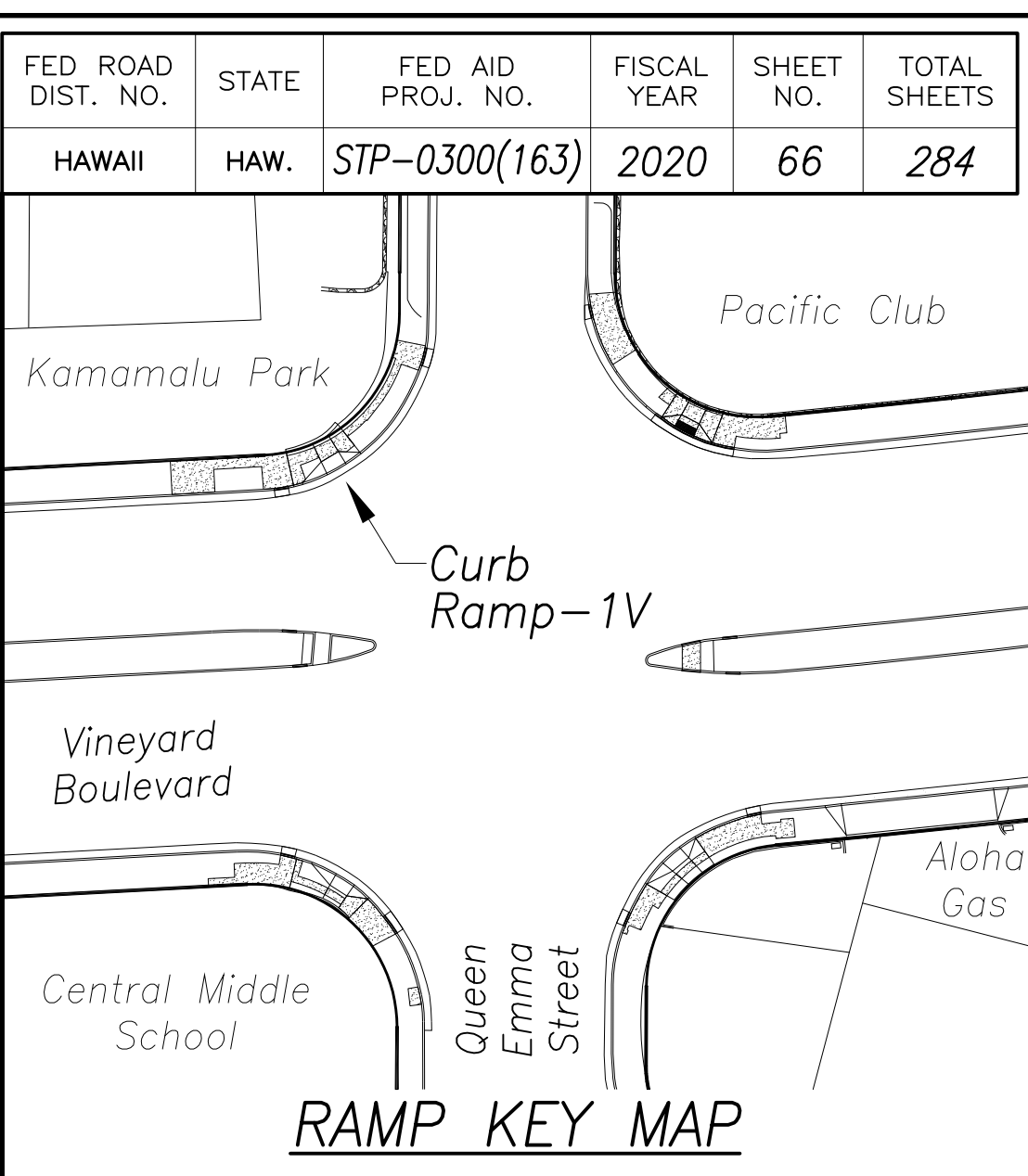
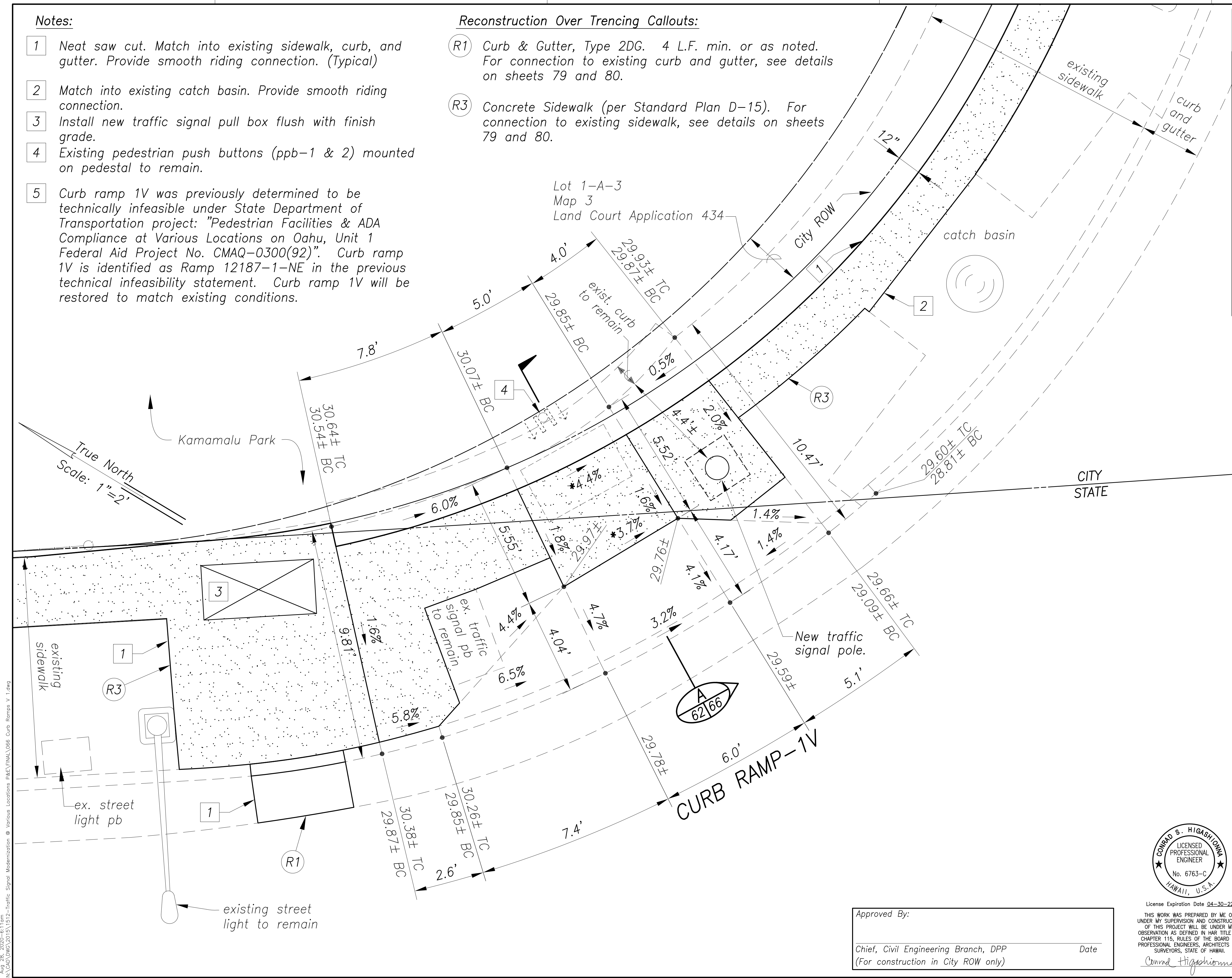
SHEET No. R-35 OF 65 SHEETS

Notes:

- 1 Neat saw cut. Match into existing sidewalk, curb, and gutter. Provide smooth riding connection. (Typical)
- 2 Match into existing catch basin. Provide smooth riding connection.
- 3 Install new traffic signal pull box flush with finish grade.
- 4 Existing pedestrian push buttons (ppb-1 & 2) mounted on pedestal to remain.
- 5 Curb ramp 1V was previously determined to be technically infeasible under State Department of Transportation project: "Pedestrian Facilities & ADA Compliance at Various Locations on Oahu, Unit 1 Federal Aid Project No. CMAQ-0300(92)". Curb ramp 1V is identified as Ramp 12187-1-NE in the previous technical infeasibility statement. Curb ramp 1V will be restored to match existing conditions.

Reconstruction Over Trenching Callouts:

- R1 Curb & Gutter, Type 2DG. 4 L.F. min. or as noted. For connection to existing curb and gutter, see details on sheets 79 and 80.
- R3 Concrete Sidewalk (per Standard Plan D-15). For connection to existing sidewalk, see details on sheets 79 and 80.

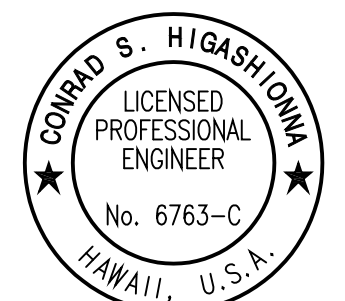


- Legend:
- 20.67± Existing Elevation
- 19.40± TC Existing Top Curb Elevation
- 18.90± BC Existing Bottom Curb Elev.
- * See Note 5 - Technical Infeasibility under prior Statement

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DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

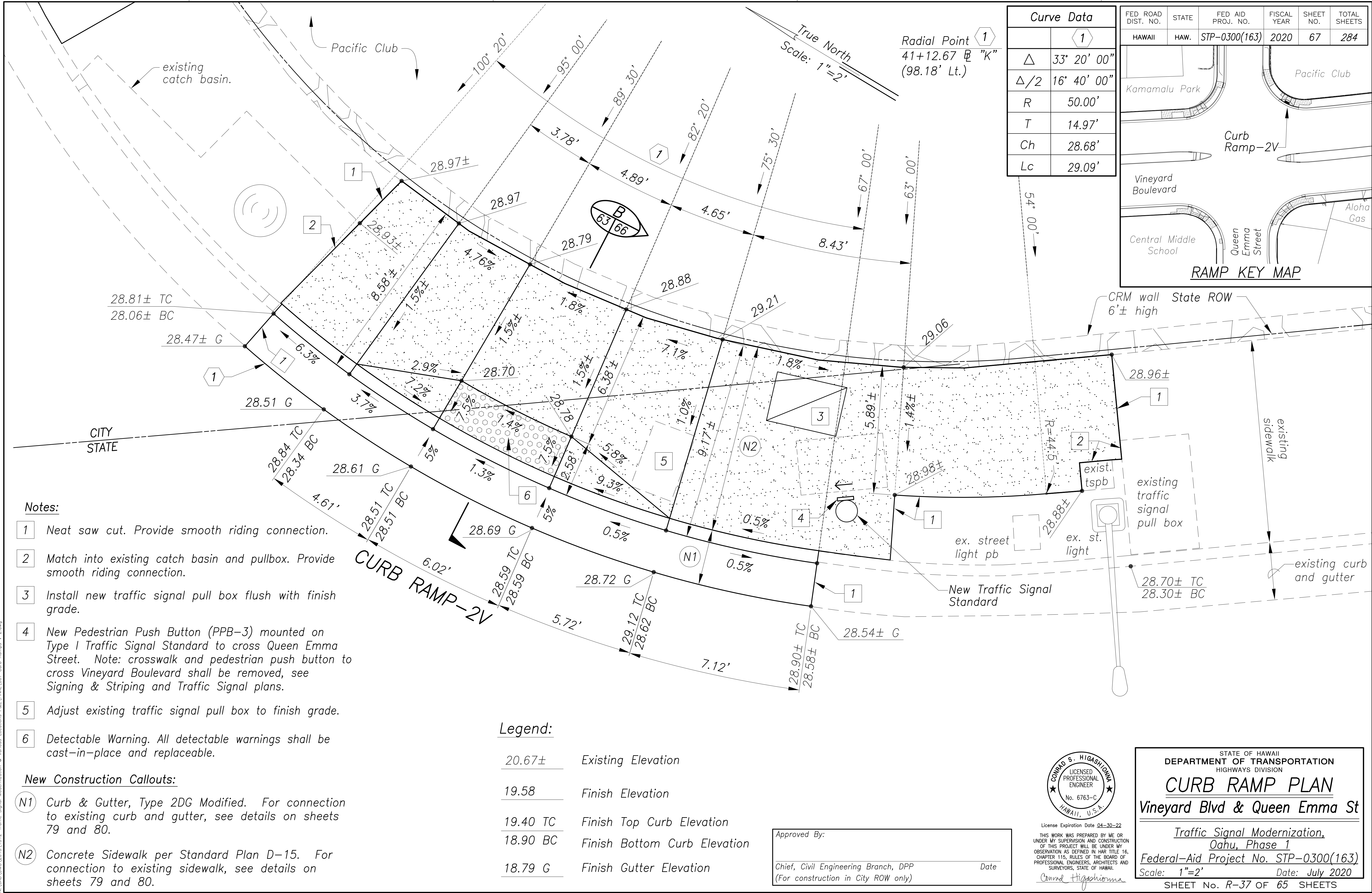
Aug 28, 2020-6:11pm
N:\CAO\DWG\2015\1512-Traffic Signal Modernization @ Various Locations P&E\FINAL\066 Curb Ramps V 1.dwg

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Conrad Higashimura

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
CURB RAMP PLAN
Vineyard Blvd & Queen Emma St
Traffic Signal Modernization,
Oahu, Phase 1
Federal-Aid Project No. STP-0300(163)
Scale: 1"=2' Date: July 2020
SHEET No. R-36 OF 65 SHEETS



Kamamalu Park

Pacific Club

Vineyard Boulevard

Curb Ramp-3V

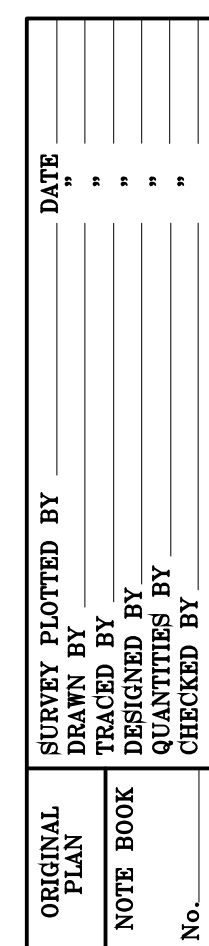
Central Middle School

Queen Emma Street

Aloha Gas

RAMP KEY MAP

<u>20.67±</u>	Existing Elevation
<u>19.40± TC</u>	Existing Top Curb Elevation
<u>18.90± BC</u>	Existing Bottom Curb Elevation

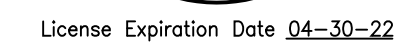


Aug. 28, 2020-6:11am
N:\CAD\DWG\2015\1512-Traffic Signal Modernization @ Various Locations P&E\FINAL\068 Cub Ramps V 3.dwg

- 1 Neat saw cut. Provide smooth riding connection.
- 2 Install new traffic signal pull box flush with finish grade.
- 3 Match into existing traffic signal pullbox or street light pull box or water valve box. Provide smooth riding connection.
- 4 New pedestrian push button (PPB-4) on pedestal crossing Queen Emma Street. Crosswalk and ppb to cross Vineyard Boulevard shall be removed, see *Signing & Striping* and *Traffic Signal* plans.
- 5 Existing traffic signal standard to remain.

(R1) Curb & Gutter, Type 2DG. 4 L.F. min. or as noted. For connection to existing curb and gutter, see details on sheets 79 & 80.

(R3) Concrete Sidewalk (per Standard Plan D-15). For connection to existing sidewalk, see details on sheets 79 and 80.



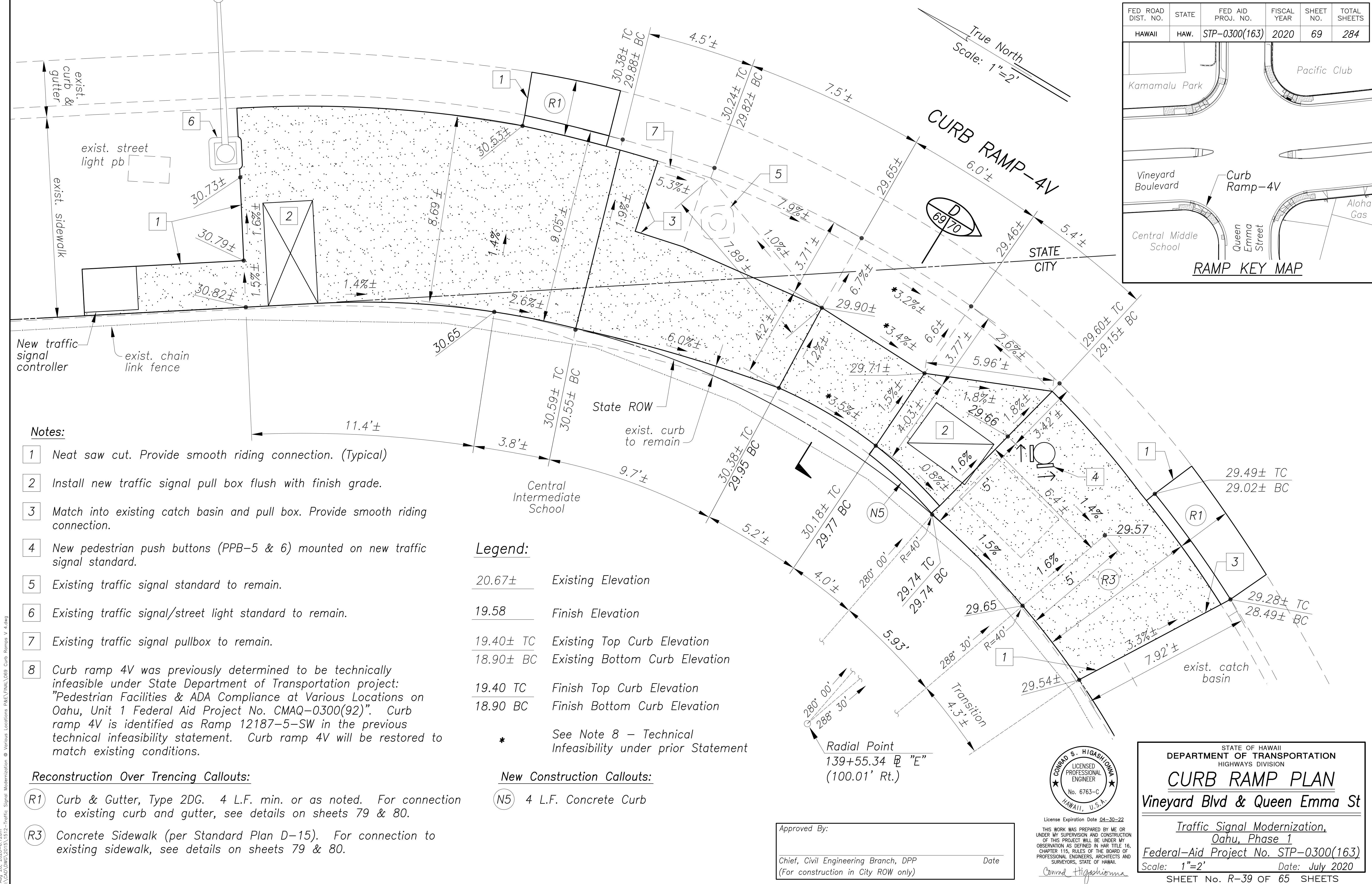
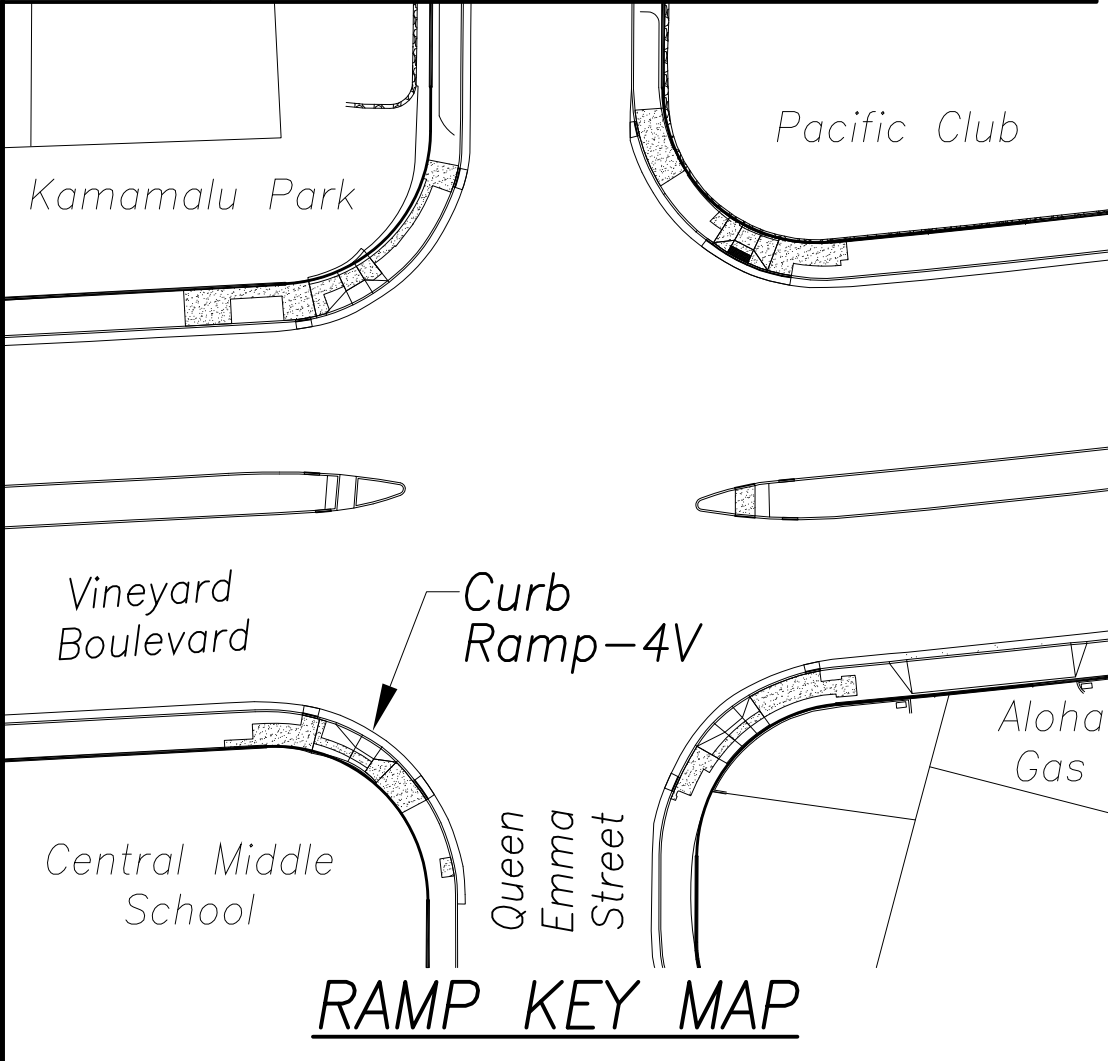
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Chief, Civil Engineering Branch, DPP (For construction in City ROW only)	Date
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Conrad Higashionna

68

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0300(163)	2020	69	284



Notes:

- 1 Neat saw cut. Provide smooth riding connection. (Typical)
- 2 Install new traffic signal pull box flush with finish grade.
- 3 Match into existing catch basin and pull box. Provide smooth riding connection.
- 4 New pedestrian push buttons (PPB-5 & 6) mounted on new traffic signal standard.
- 5 Existing traffic signal standard to remain.
- 6 Existing traffic signal/street light standard to remain.
- 7 Existing traffic signal pullbox to remain.
- 8 Curb ramp 4V was previously determined to be technically infeasible under State Department of Transportation project: "Pedestrian Facilities & ADA Compliance at Various Locations on Oahu, Unit 1 Federal Aid Project No. CMAQ-0300(92)". Curb ramp 4V is identified as Ramp 12187-5-SW in the previous technical infeasibility statement. Curb ramp 4V will be restored to match existing conditions.

Reconstruction Over Trencing Callouts:

- R1 Curb & Gutter, Type 2DG. 4 L.F. min. or as noted. For connection to existing curb and gutter, see details on sheets 79 & 80.
- R3 Concrete Sidewalk (per Standard Plan D-15). For connection to existing sidewalk, see details on sheets 79 & 80.

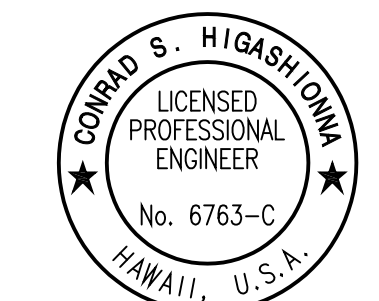
Legend:

- 20.67± Existing Elevation
- 19.58 Finish Elevation
- 19.40± TC Existing Top Curb Elevation
- 18.90± BC Existing Bottom Curb Elevation
- 19.40 TC Finish Top Curb Elevation
- 18.90 BC Finish Bottom Curb Elevation
- * See Note 8 - Technical Infeasibility under prior Statement

New Construction Callouts:

- N5 4 L.F. Concrete Curb

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Chief, Civil Engineering Branch, DPP
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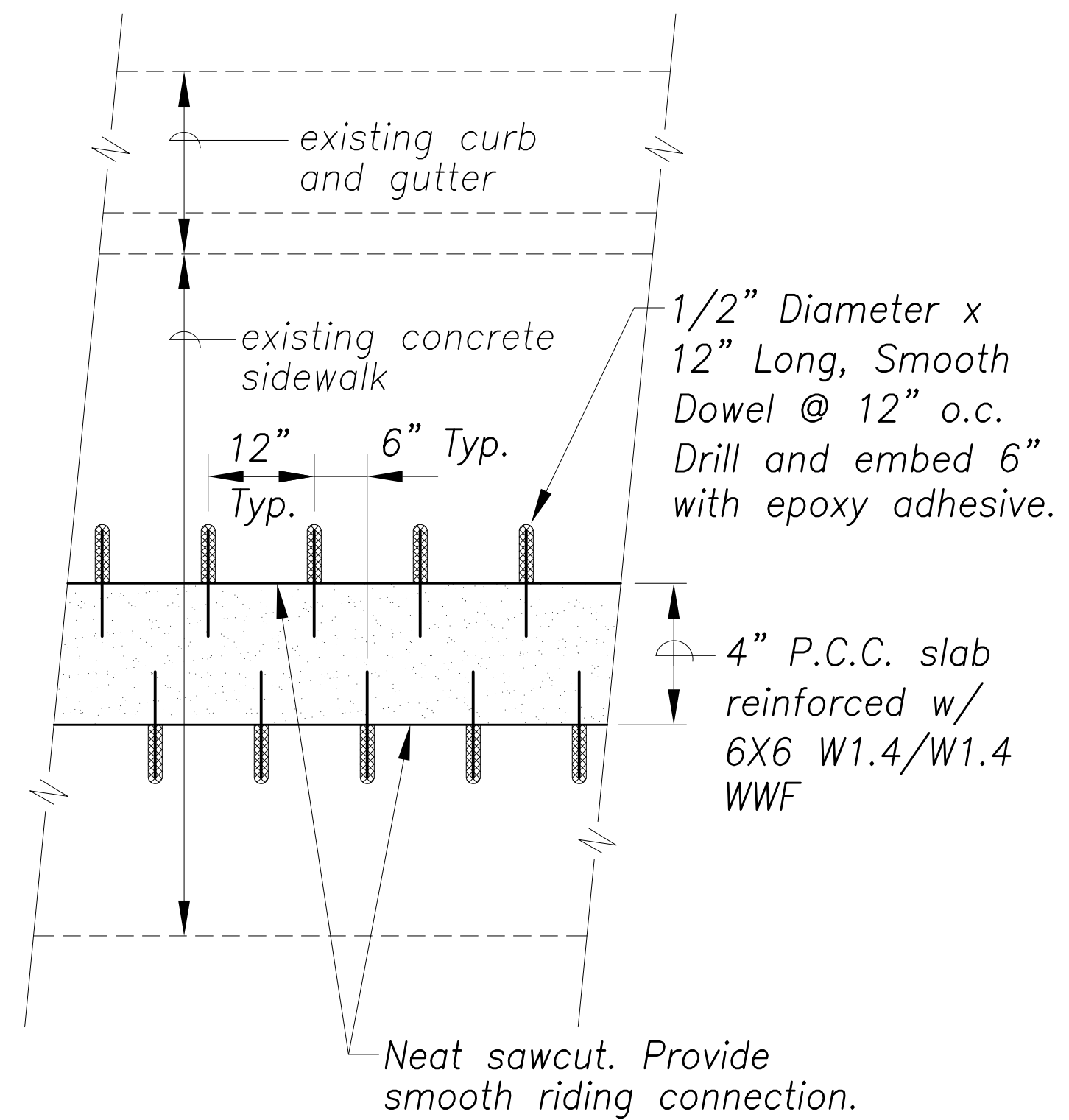
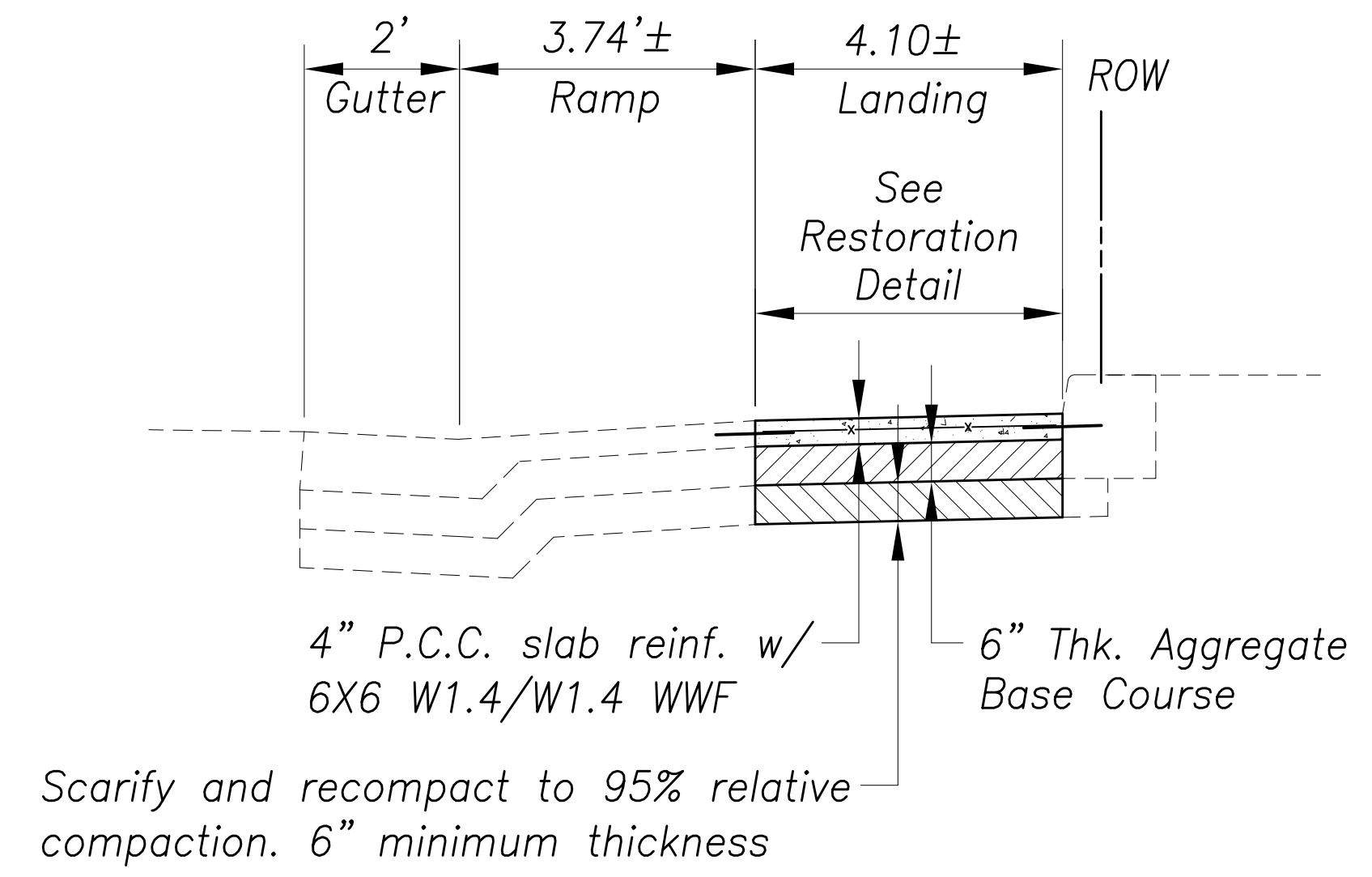
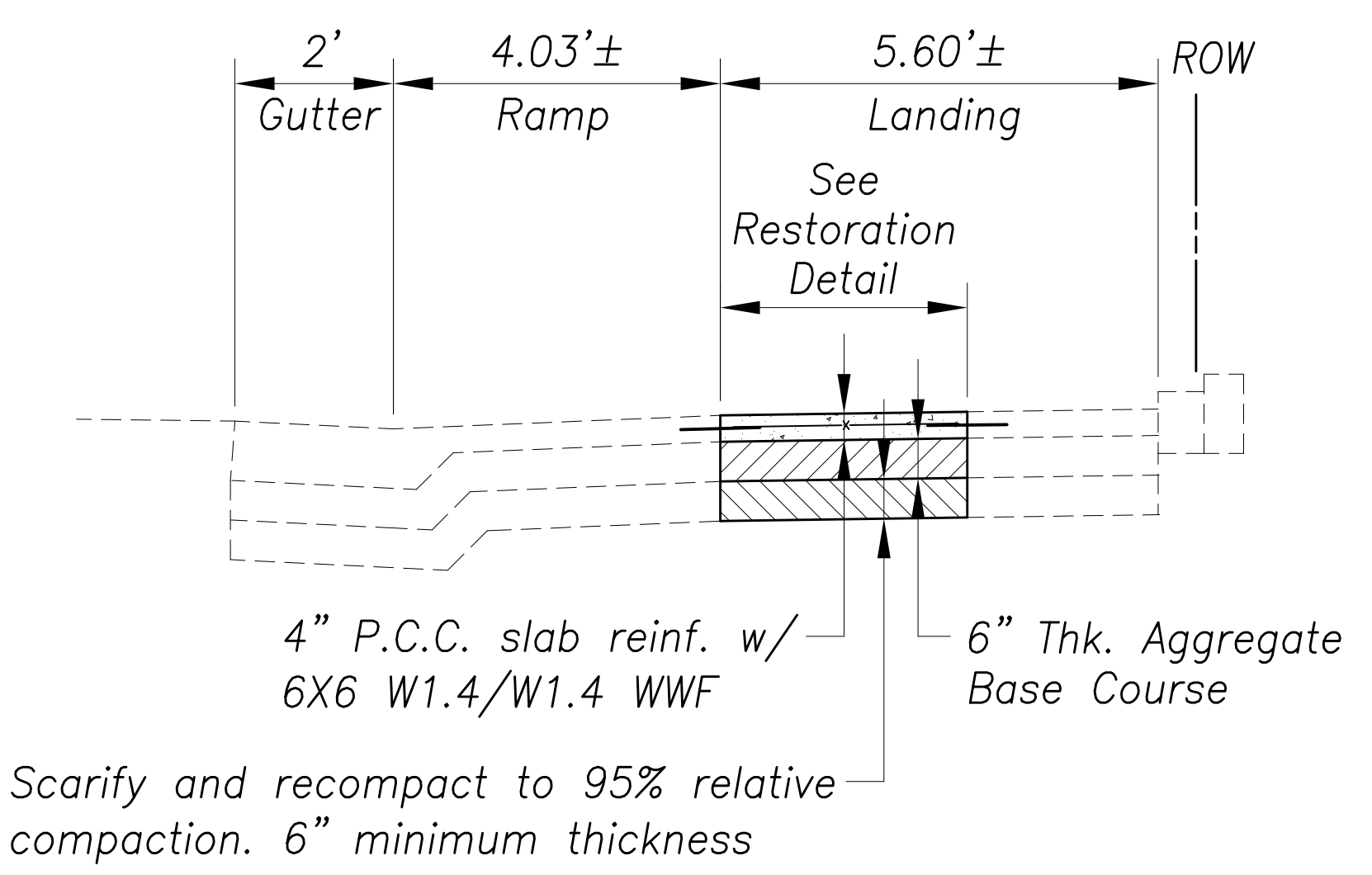
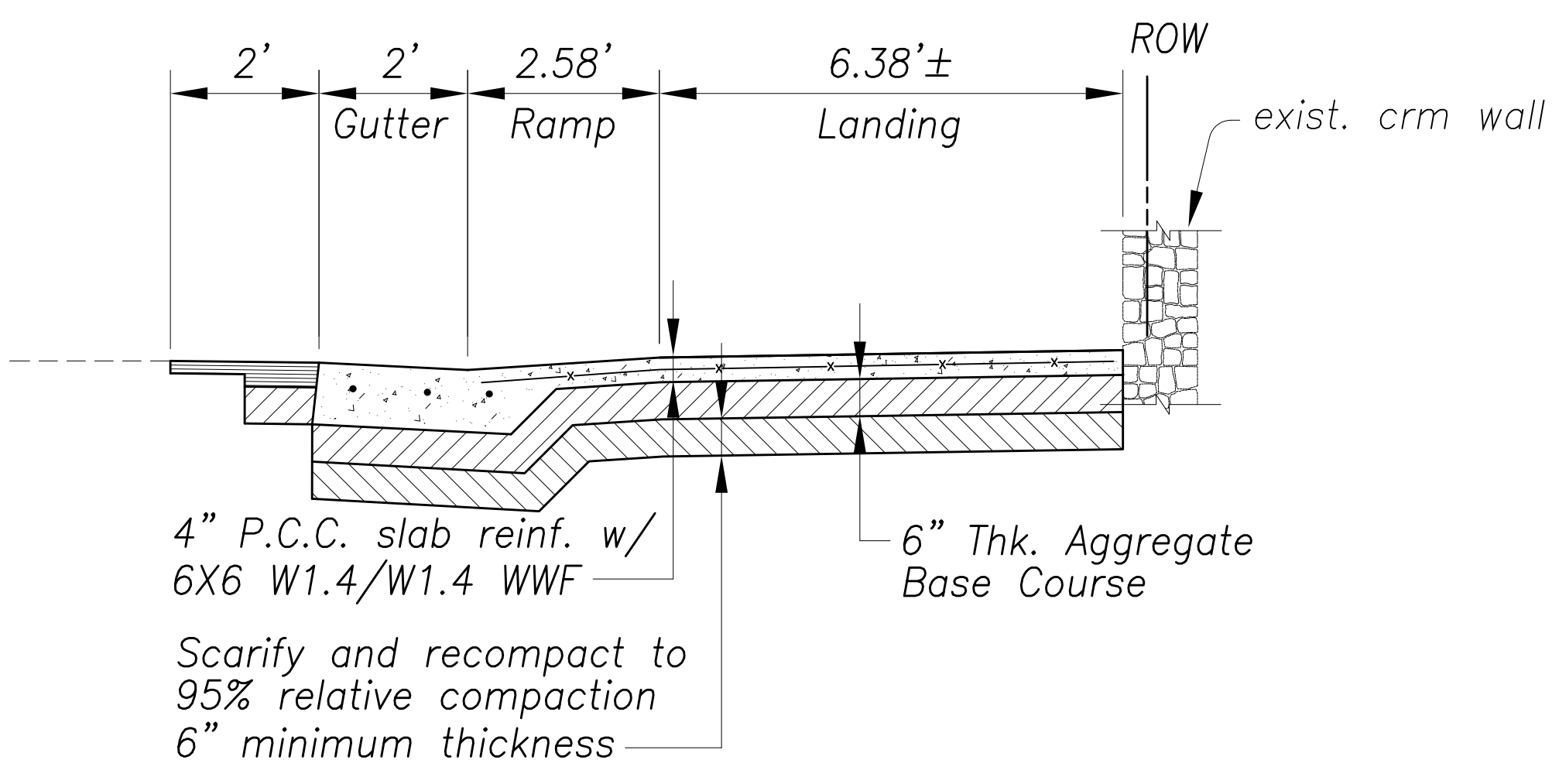
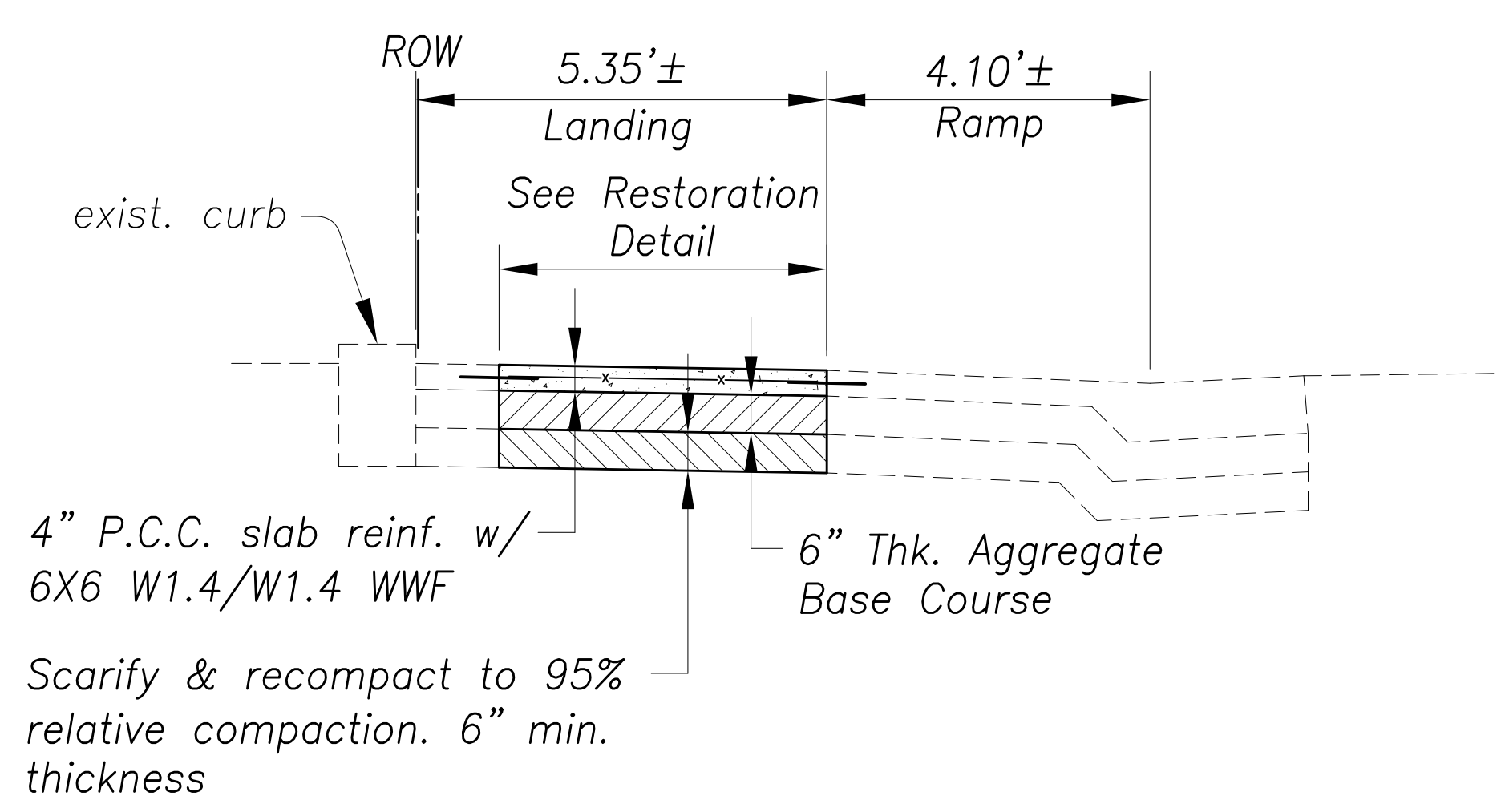
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
CURB RAMP PLAN
Vineyard Blvd & Queen Emma St
Traffic Signal Modernization,
Oahu, Phase 1
Federal-Aid Project No. STP-0300(163)
Scale: 1"=2' Date: July 2020
SHEET No. R-39 OF 65 SHEETS

SURVEY PLOTTED BY	DATE
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QUANTITIES BY	
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ORIGINAL PLAN	No.

Aug 28, 2020-8:10am
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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0300(163)	2020	70	284



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No.		

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Approved By: _____ Date _____

Chief, Civil Engineering Branch, DPP
(For construction in City ROW only)

CONRAD S. HIGASHIOWA
LICENSED PROFESSIONAL ENGINEER
No. 6763-C
HAWAII, U.S.A.

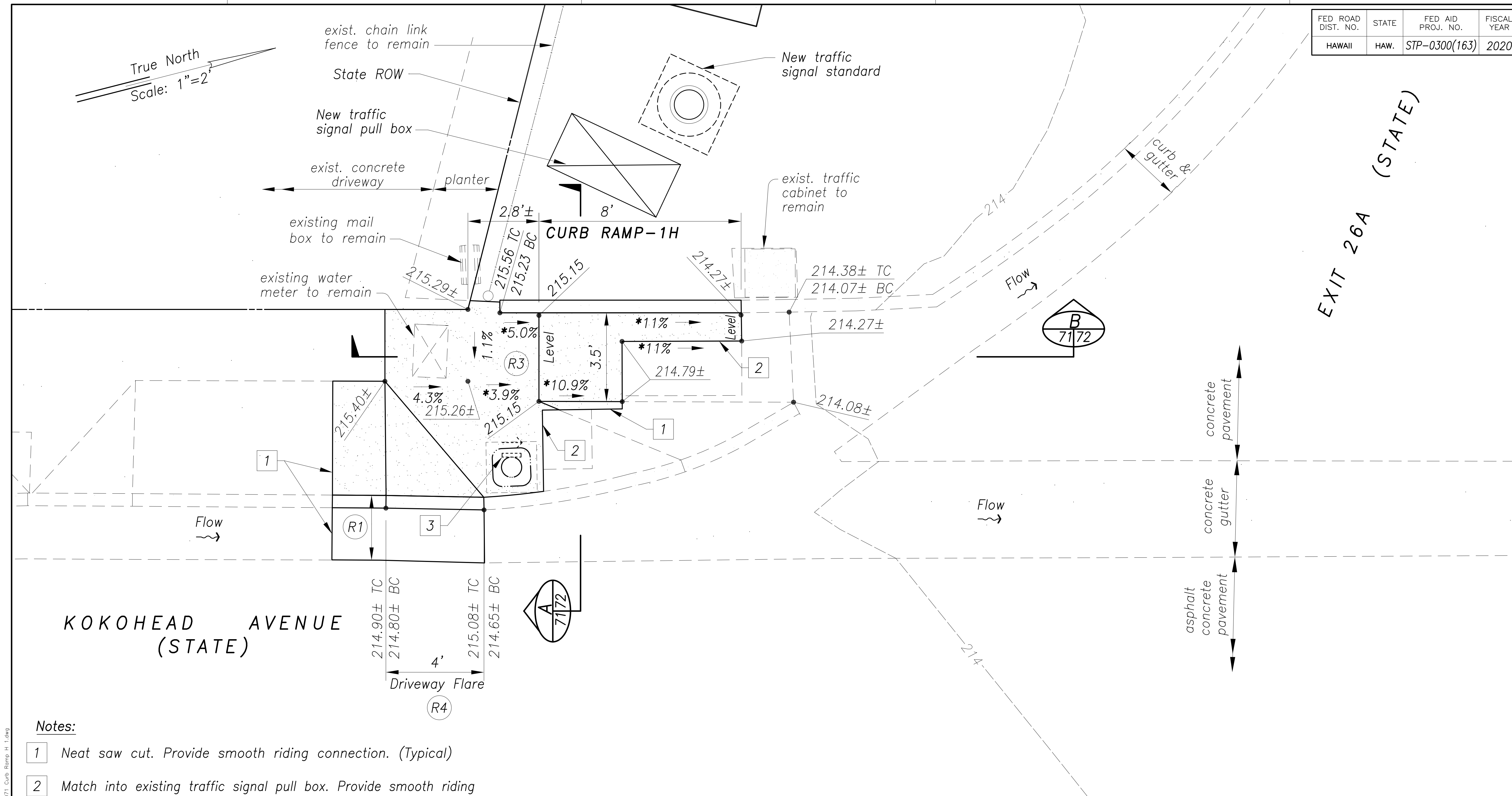
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Conrad Higashiomma

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CURB RAMP PLAN
Vineyard Blvd & Queen Emma St
Traffic Signal Modernization,
Oahu, Phase 1
Federal-Aid Project No. STP-0300(163)
Scale: _____ Date: July 2020
SHEET No. R-40 OF 65 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0300(163)	2020	71	284



Notes:

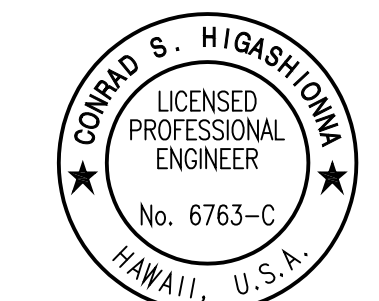
- 1 Neat saw cut. Provide smooth riding connection. (Typical)
- 2 Match into existing traffic signal pull box. Provide smooth riding connection.
- 3 Existing Type I traffic signal standard to remain. New pedestrian push button PPB-1.

Reconstruction Over Trencing Callouts:

- R1 Curb & Gutter, Type 2DG. 4 L.F. min. or as noted. For connection to existing curb and gutter, see details on sheets 79.
- R3 Concrete Sidewalk (per Standard Plan D-15). For connection to existing curb and gutter, see details on sheets 79.
- R4 Reinforced Concrete Drop Driveway (per Std. Plan D-06)

Legend:

- 120.67± Existing Elevation
- 119.58 Finish Elevation
- 119.40 TC Finish Top Curb Elevation
- 118.90 BC Finish Bottom Curb Elevation
- 118.79 G Finish Gutter Elevation
- * Technical Infeasibility Statement



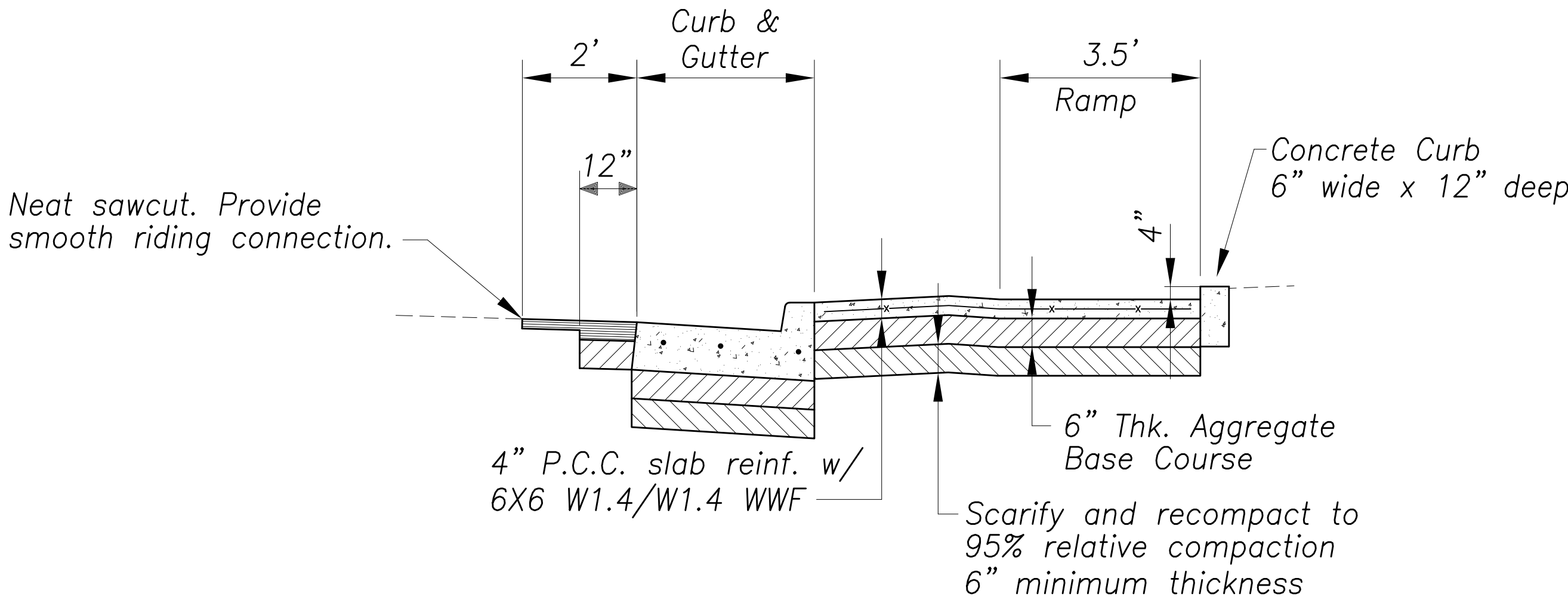
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Conrad Higashimura

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HIGHWAYS DIVISION
CURB RAMP PLAN
H-1 Exit 26A & Koko Head Ave
Traffic Signal Modernization,
Oahu, Phase 1
Federal-Aid Project No. STP-0300(163)
Scale: _____ Date: July 2020
SHEET No. R-41 OF 65 SHEETS

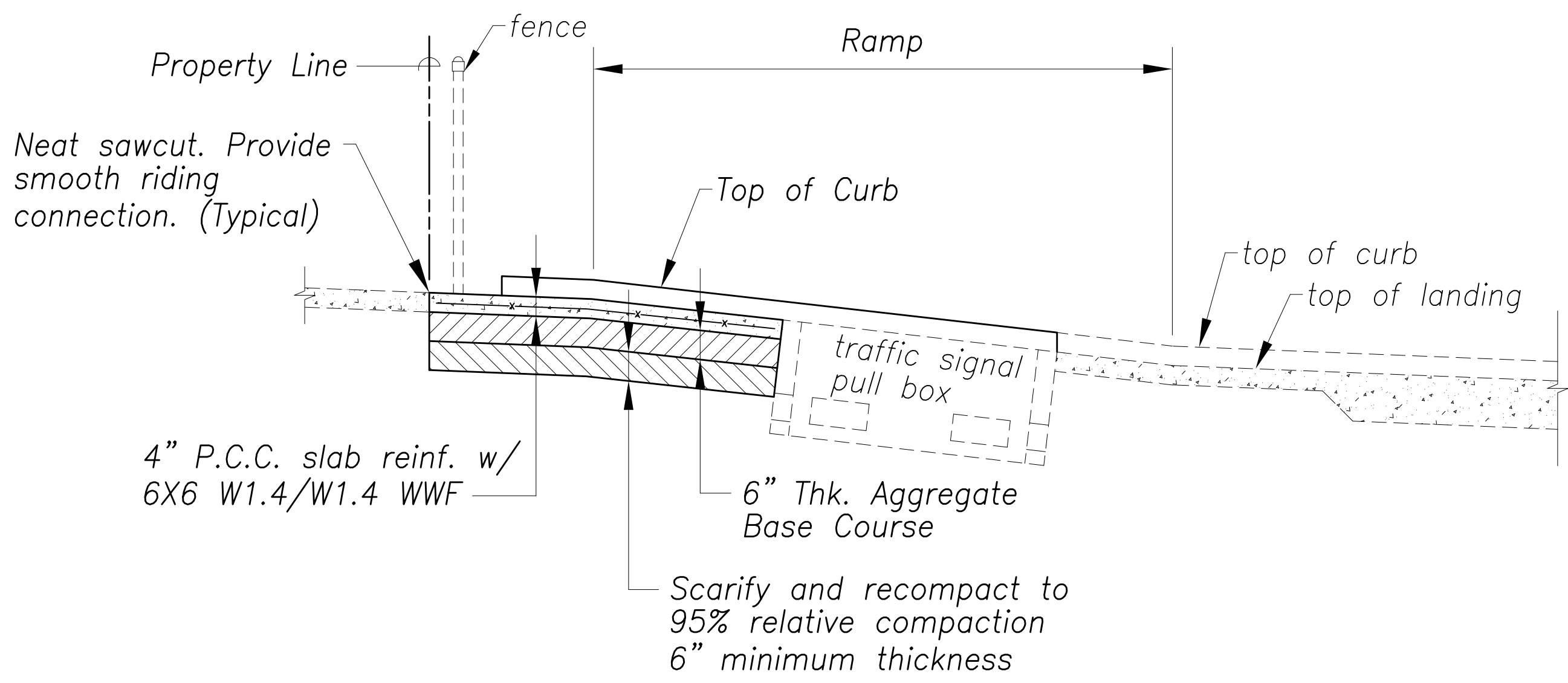
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ORIGINAL PLAN	No.
NOTE BOOK	

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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0300(163)	2020	72	284



SECTION A
Scale: 1/2"=1'-0"

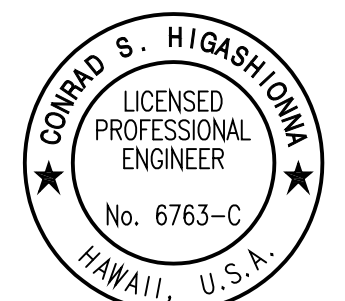


SECTION B
Scale: 1/2"=1'-0"

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Conrad Higashimura

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CURB RAMP PLAN
H-1 Exit 26A & Koko Head Ave

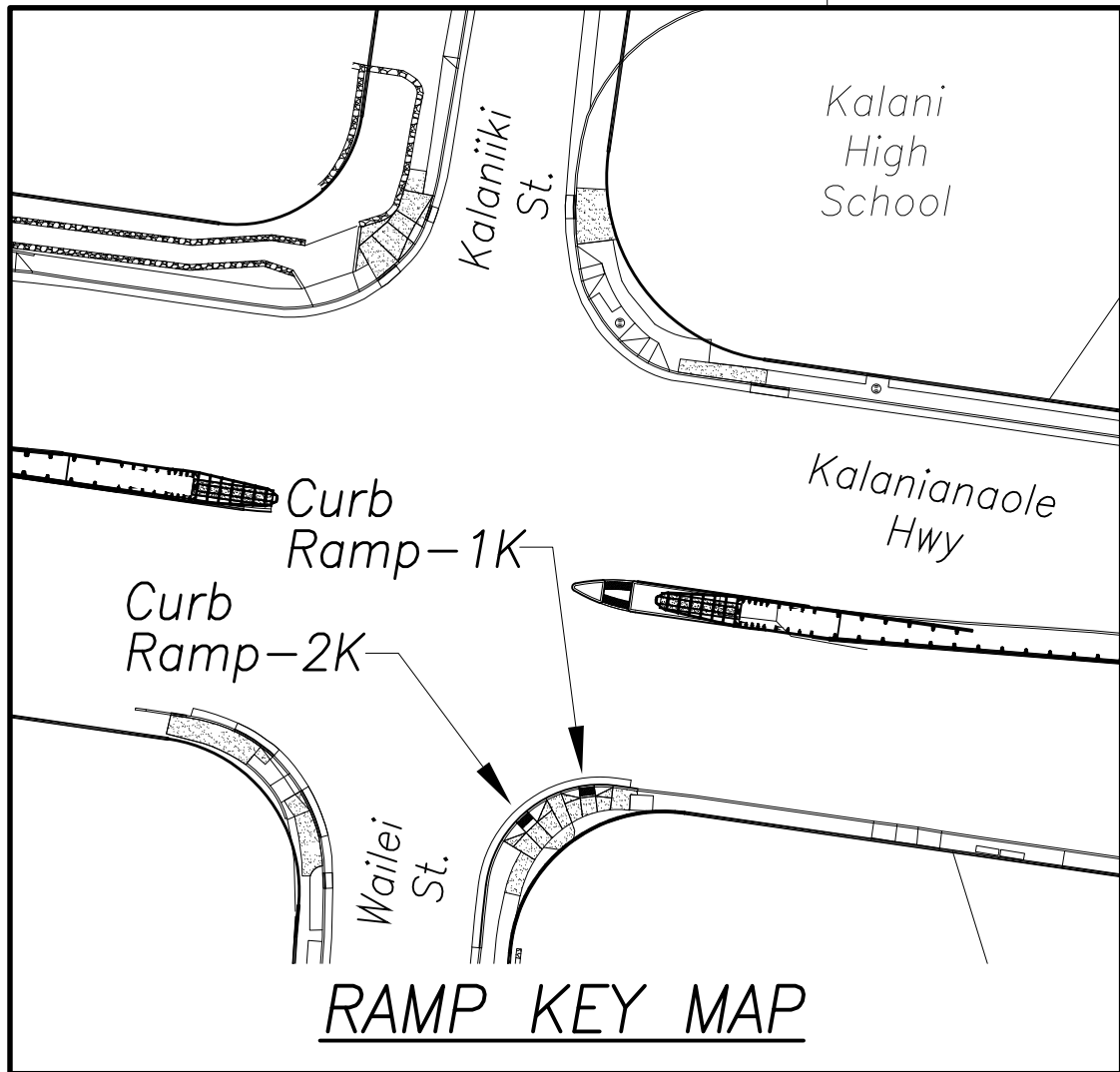
Traffic Signal Modernization,
Oahu, Phase 1
Federal-Aid Project No. STP-0300(163)

Scale: Date: July 2020

SHEET No. R-42 OF 65 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0300(163)	2020	73	284

Legend:
19.40 TC Finish Top Curb Elev.
18.90 BC Finish Bottom Curb Elev.
19.58 Finish Elevation
18.79 G Finish Gutter Elev.
20.67± Existing Elevation

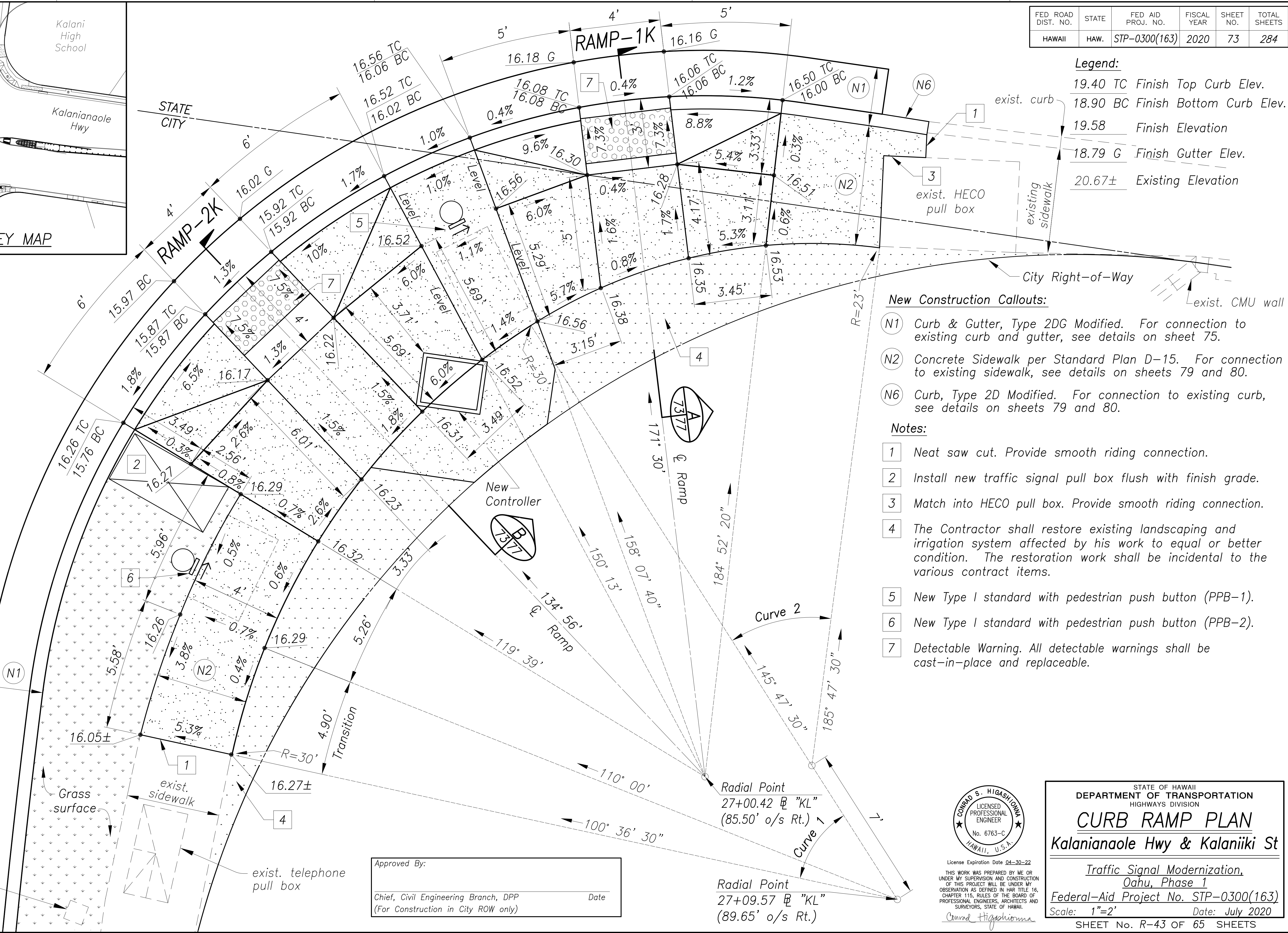


Curve Data Back of Sidewalk	
	Curve 1
Δ	40° 11' 00"
$\Delta/2$	20° 05' 30"
R	30.00'
T	12.48'
Ch	23.05'
Lc	23.66'
	Curve 2
Δ	20° 00' 00"
$\Delta/2$	10° 00' 00"
R	23.00'
T	8.37'
Ch	15.73'
Lc	16.06'

True North
Scale: 1"=2'

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

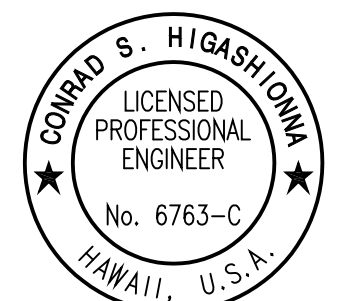
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- New Construction Callouts:**
- N1 Curb & Gutter, Type 2DG Modified. For connection to existing curb and gutter, see details on sheet 75.
 - N2 Concrete Sidewalk per Standard Plan D-15. For connection to existing sidewalk, see details on sheets 79 and 80.
 - N6 Curb, Type 2D Modified. For connection to existing curb, see details on sheets 79 and 80.
- Notes:**
- 1 Neat saw cut. Provide smooth riding connection.
 - 2 Install new traffic signal pull box flush with finish grade.
 - 3 Match into HECO pull box. Provide smooth riding connection.
 - 4 The Contractor shall restore existing landscaping and irrigation system affected by his work to equal or better condition. The restoration work shall be incidental to the various contract items.
 - 5 New Type I standard with pedestrian push button (PPB-1).
 - 6 New Type I standard with pedestrian push button (PPB-2).
 - 7 Detectable Warning. All detectable warnings shall be cast-in-place and replaceable.

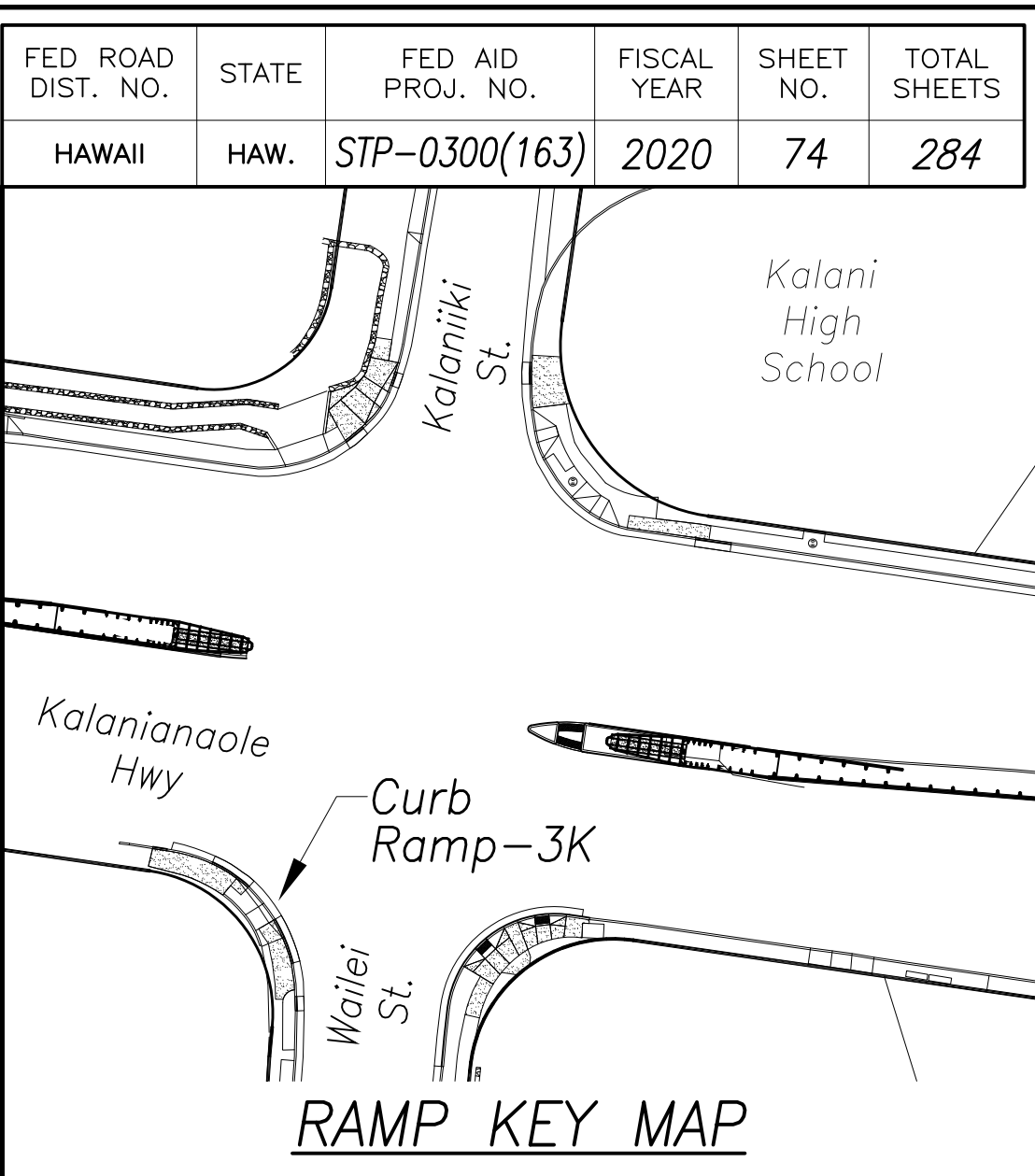
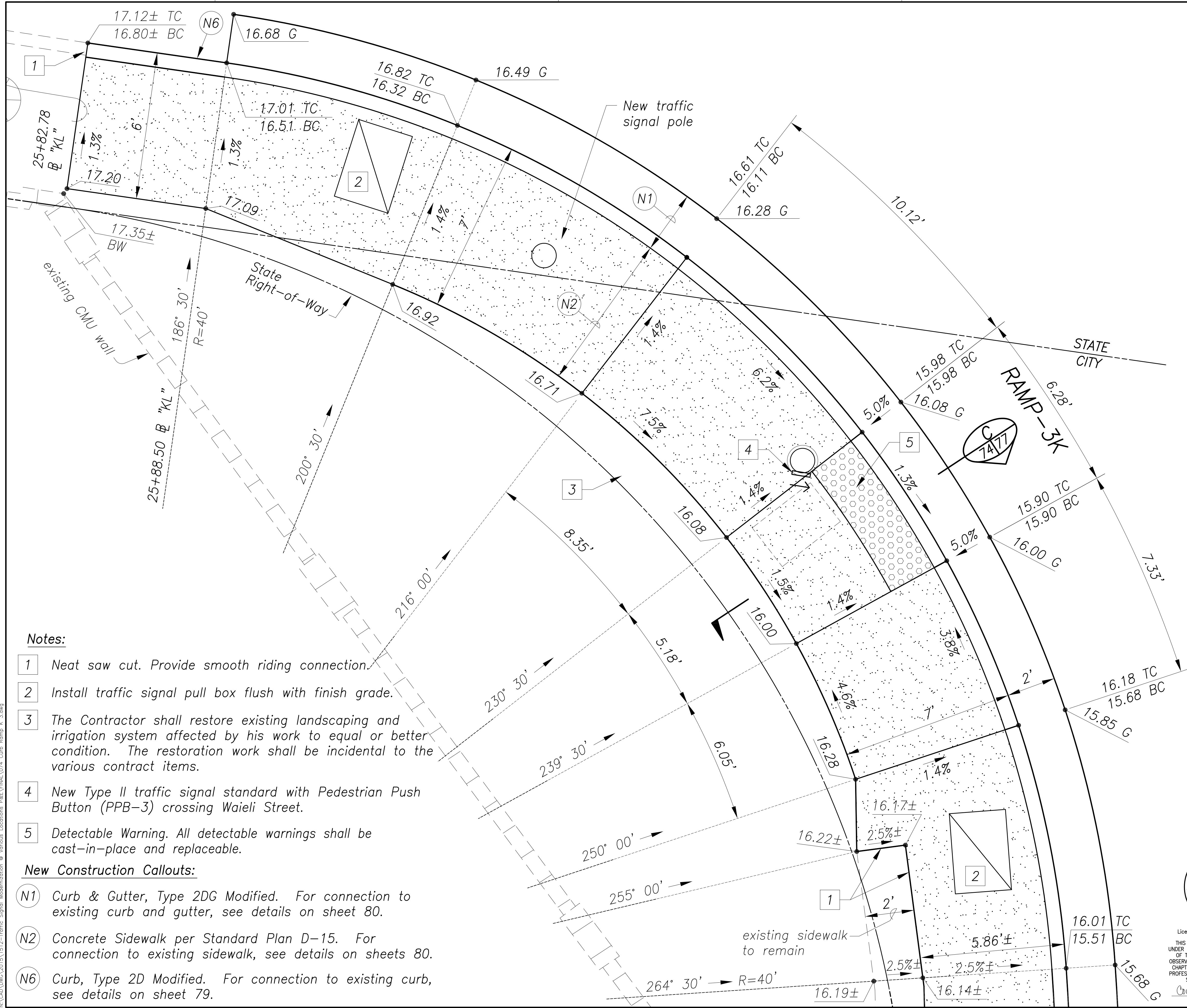
Approved By:
Chief, Civil Engineering Branch, DPP
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Conrad Higashimura

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
CURB RAMP PLAN
Kalaniana'ole Hwy & Kalaniki St
Traffic Signal Modernization,
Oahu, Phase 1
Federal-Aid Project No. STP-0300(163)
Scale: 1"=2' Date: July 2020
SHEET No. R-43 OF 65 SHEETS



Legend:

20.67±	Existing Elevation
19.58	Finish Elevation
19.40 TC	Finish Top Curb Elevation
18.90 BC	Finish Bottom Curb Elevation
18.79 G	Finish Gutter Elevation

Approved By:

Chief, Civil Engineering Branch, DPP	Date
(For construction in City ROW only)	

- Notes:**
- 1 Neat saw cut. Provide smooth riding connection.
 - 2 Install traffic signal pull box flush with finish grade.
 - 3 The Contractor shall restore existing landscaping and irrigation system affected by his work to equal or better condition. The restoration work shall be incidental to the various contract items.
 - 4 New Type II traffic signal standard with Pedestrian Push Button (PPB-3) crossing Waieli Street.
 - 5 Detectable Warning. All detectable warnings shall be cast-in-place and replaceable.
- New Construction Callouts:**
- N1 Curb & Gutter, Type 2DG Modified. For connection to existing curb and gutter, see details on sheet 80.
 - N2 Concrete Sidewalk per Standard Plan D-15. For connection to existing sidewalk, see details on sheets 80.
 - N6 Curb, Type 2D Modified. For connection to existing curb, see details on sheet 79.

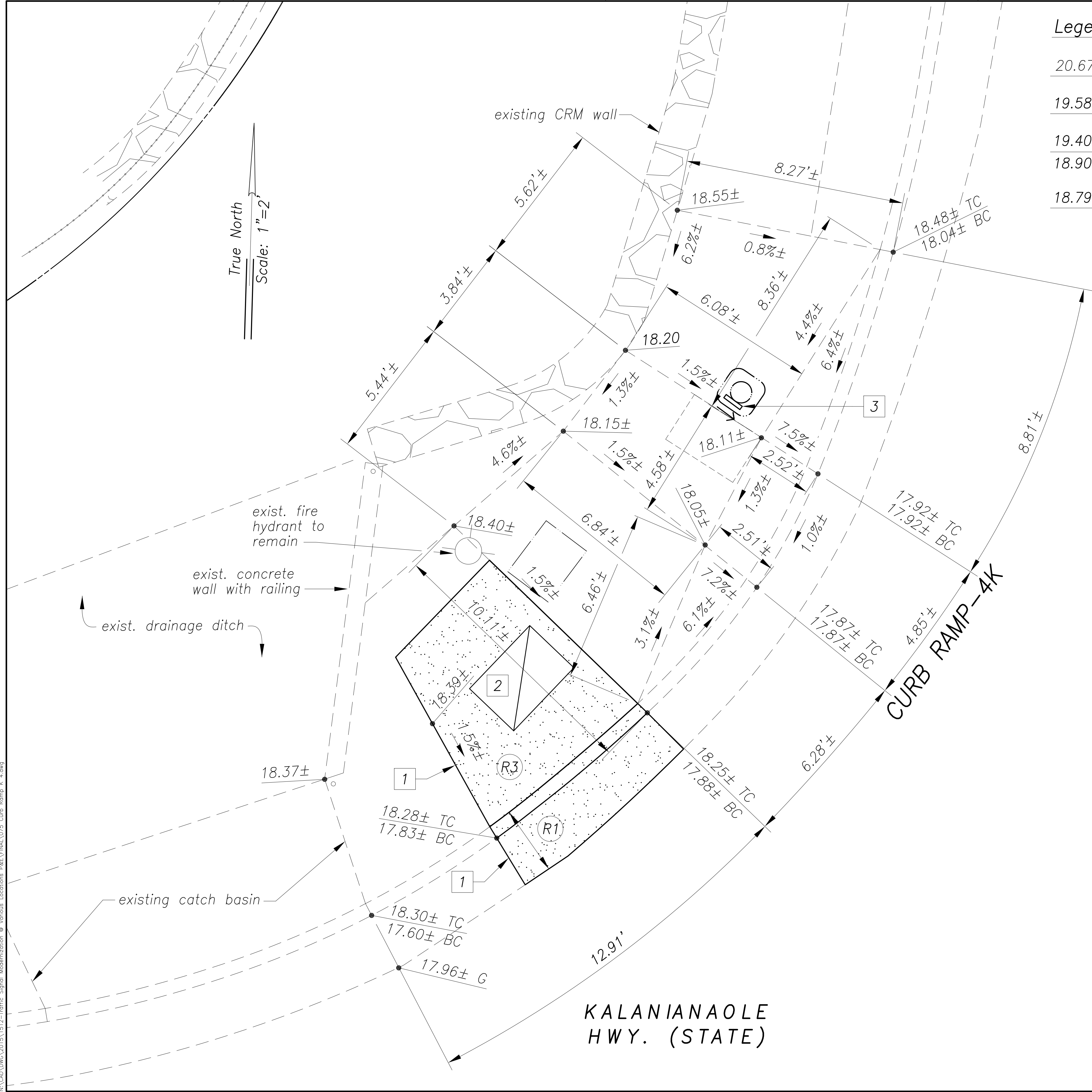
SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
No.	

CONRAD S. HIGASHIOWA
LICENSED PROFESSIONAL ENGINEER
No. 6763-C
HAWAII, U.S.A.
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Conrad Higashiomma

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
CURB RAMP PLAN
Kalaniana'ole Hwy & Kalaniiki St
Traffic Signal Modernization,
Oahu, Phase 1
Federal-Aid Project No. STP-0300(163)
Scale: 1"=2' Date: July 2020
SHEET No. R-44 OF 65 SHEETS

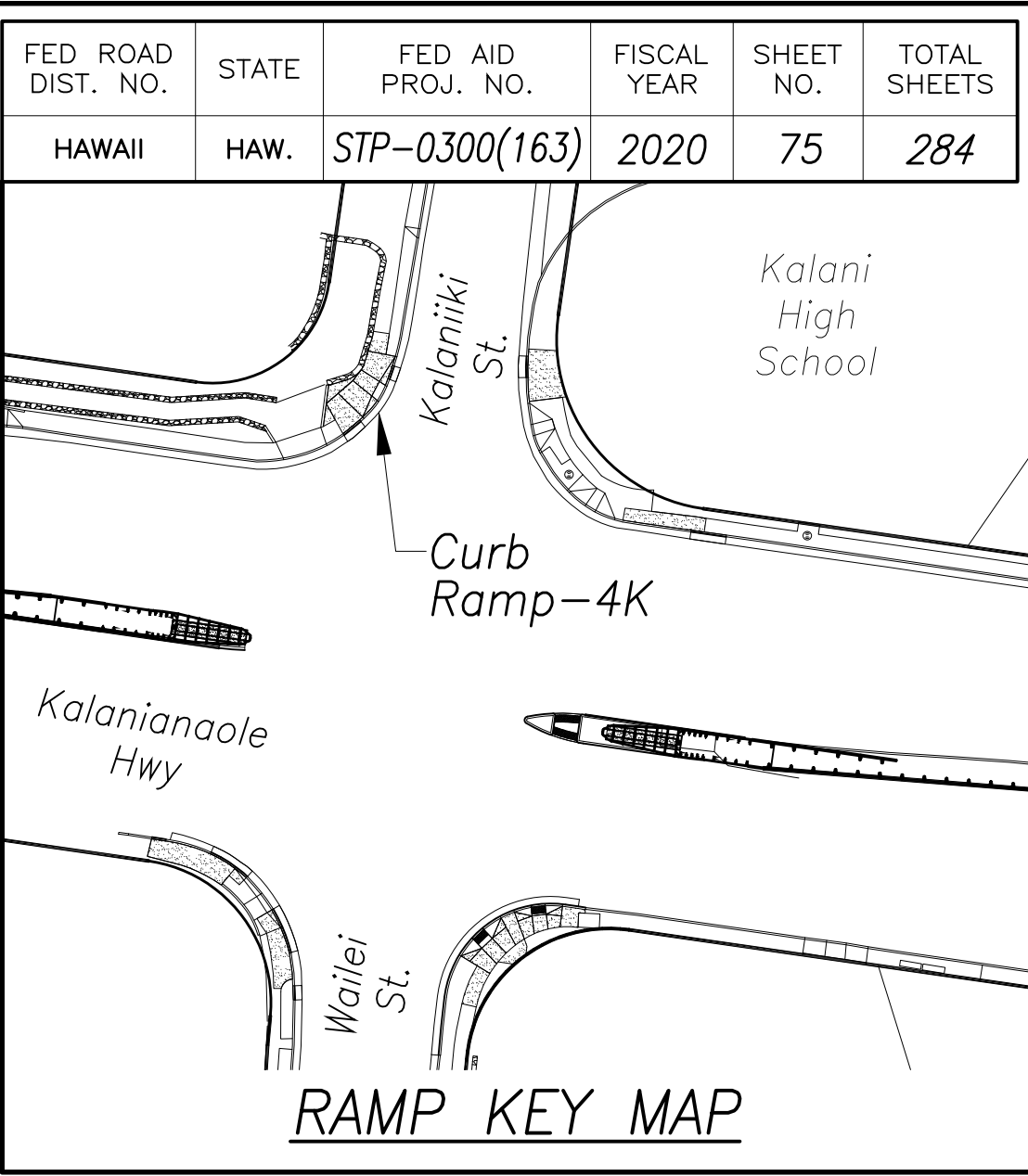
SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	No.
NOTE BOOK	

Aug 28, 2020-8:10pm
N:\CAO\DWG\2015\1512-Traffic Signal Modernization @ Various Locations P&E\FINAL\075 Curb Ramp & 4.dwg

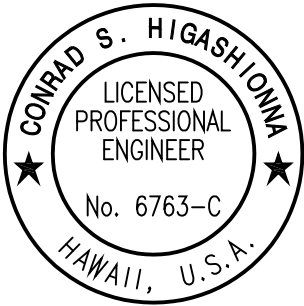


Legend:

20.67±	Existing Elevation
19.58	Finish Elevation
19.40 TC	Finish Top Curb Elevation
18.90 BC	Finish Bottom Curb Elevation
18.79 G	Finish Gutter Elevation



- Notes:**
- 1 Neat saw cut. Provide smooth riding connection.
 - 2 Install traffic signal pull box flush with finish grade.
 - 3 Install pedestrian push button (PPB-4) on existing signal standard.
- Reconstruction Over Trencing Callouts:**
- R1 Curb & Gutter, Type 2DG. 4 L.F. min. or as noted. For connection to existing curb and gutter, see details on sheet 79.
 - R3 Concrete Sidewalk (per Standard Plan D-15). For connection to existing sidewalk, see details on sheet 79.



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Conrad Higashimura

STATE OF HAWAII
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HIGHWAYS DIVISION

CURB RAMP PLAN

Kalaniana'ole Hwy & Kalaniki St

*Traffic Signal Modernization,
Oahu, Phase 1*

Federal-Aid Project No. STP-0300(163)

Scale: 1"=2' Date: July 2020

SHEET No. R-45 OF 65 SHEETS

Kalanani'imi St

Kalani High School

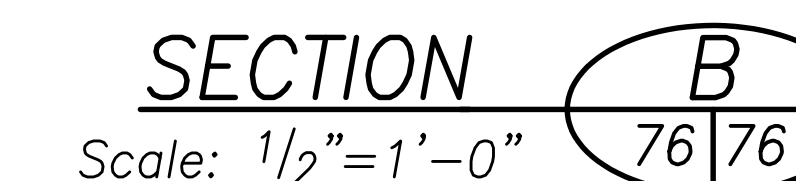
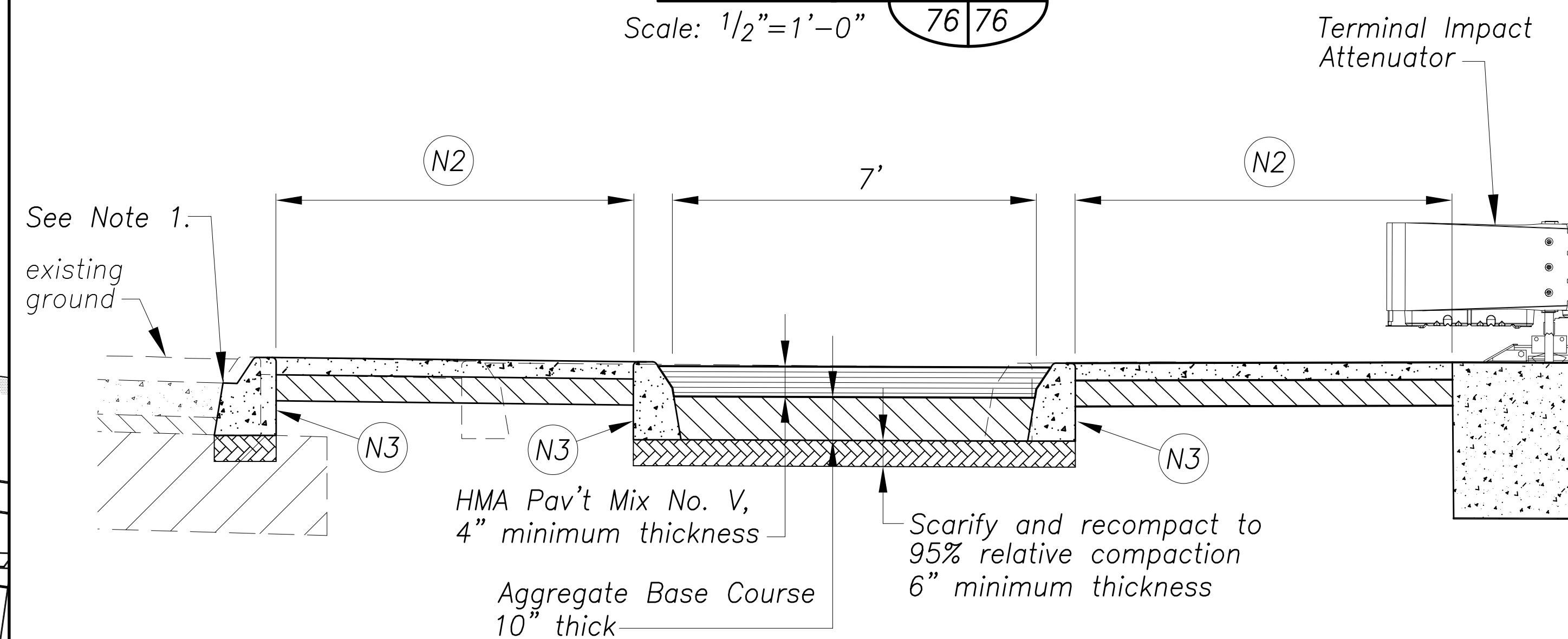
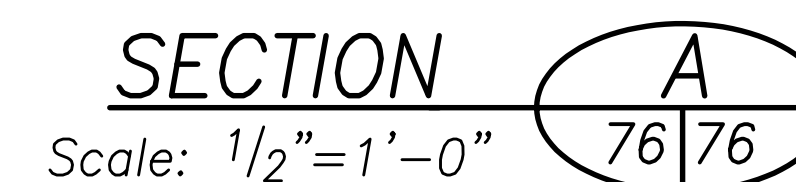
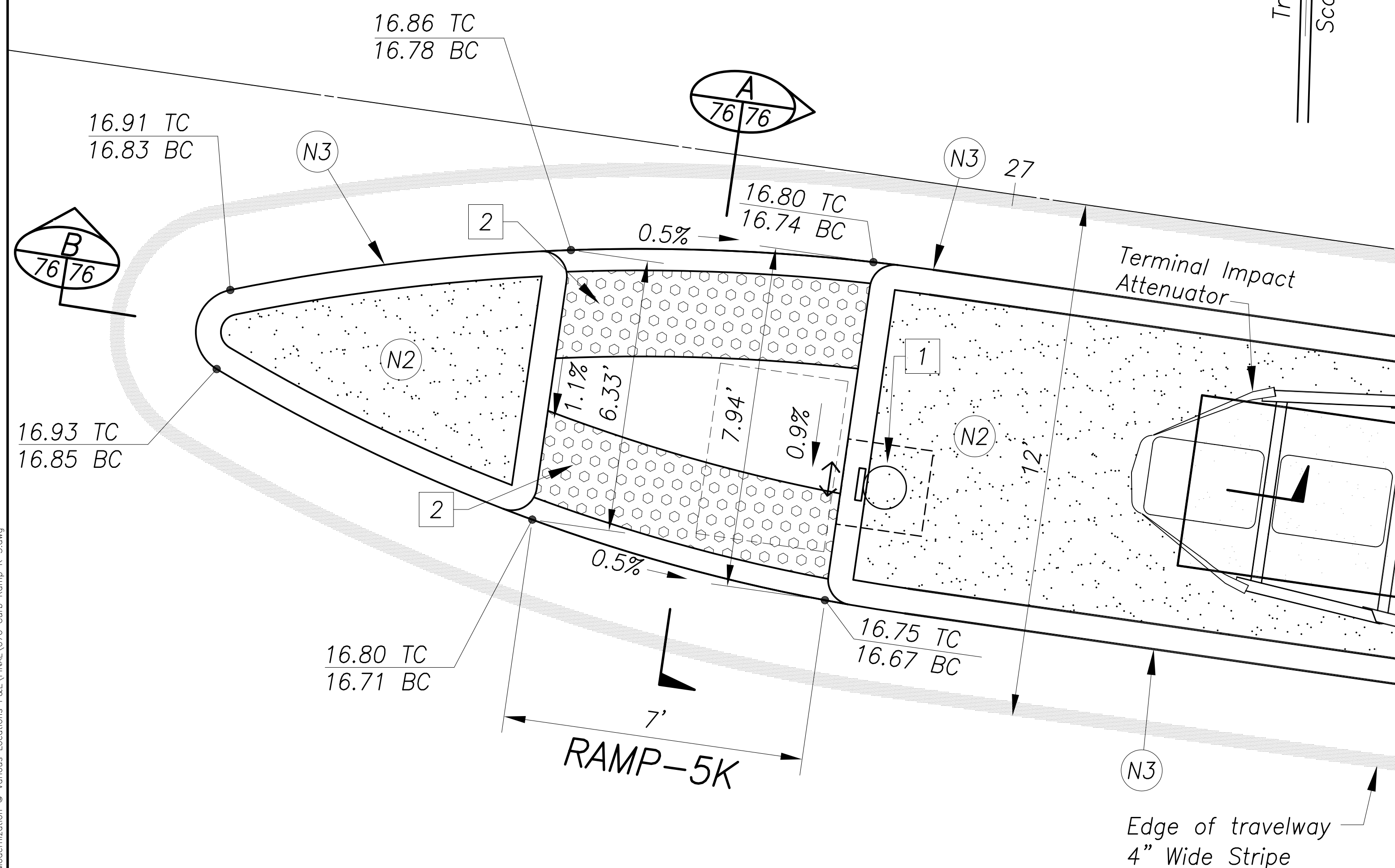
Curb Ramp-5K

Kalaniana'ole Hwy

Wailei St

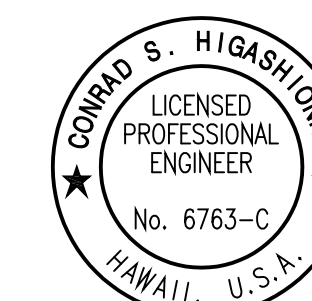
RAMP KEY MAP

True North
Scale: 1" = 2'



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

Aug 28, 2020-6:13am
 C:\Users\CAO.DWG\2015\1519-Traffic Signal Modernization\08_Various Locations_P&E_FINAL\076_Cth_Ramp_K_5.dwg



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CURB RAMP PLAN

Kalanianaʻole Hwy & Kalaniiki St

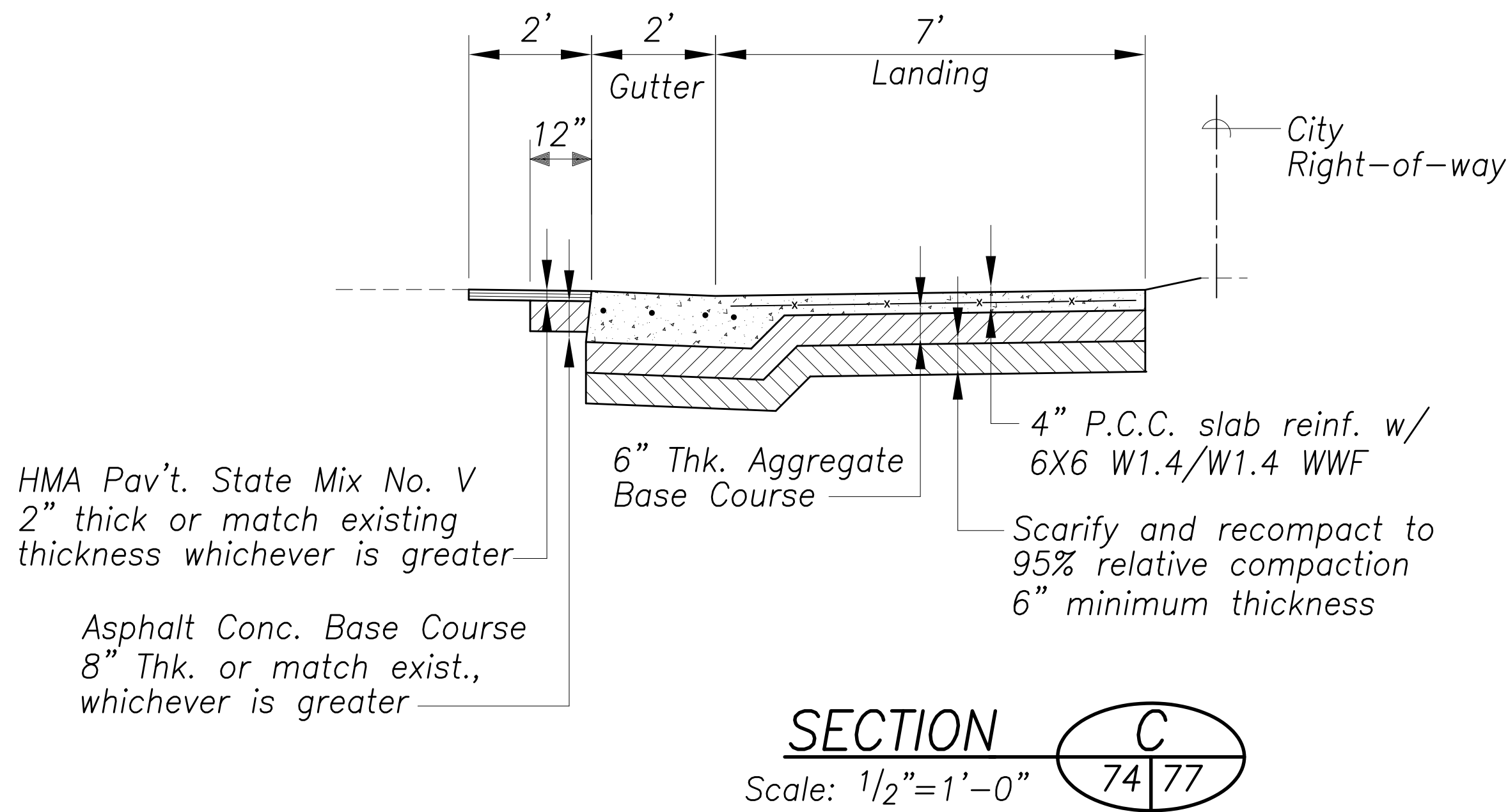
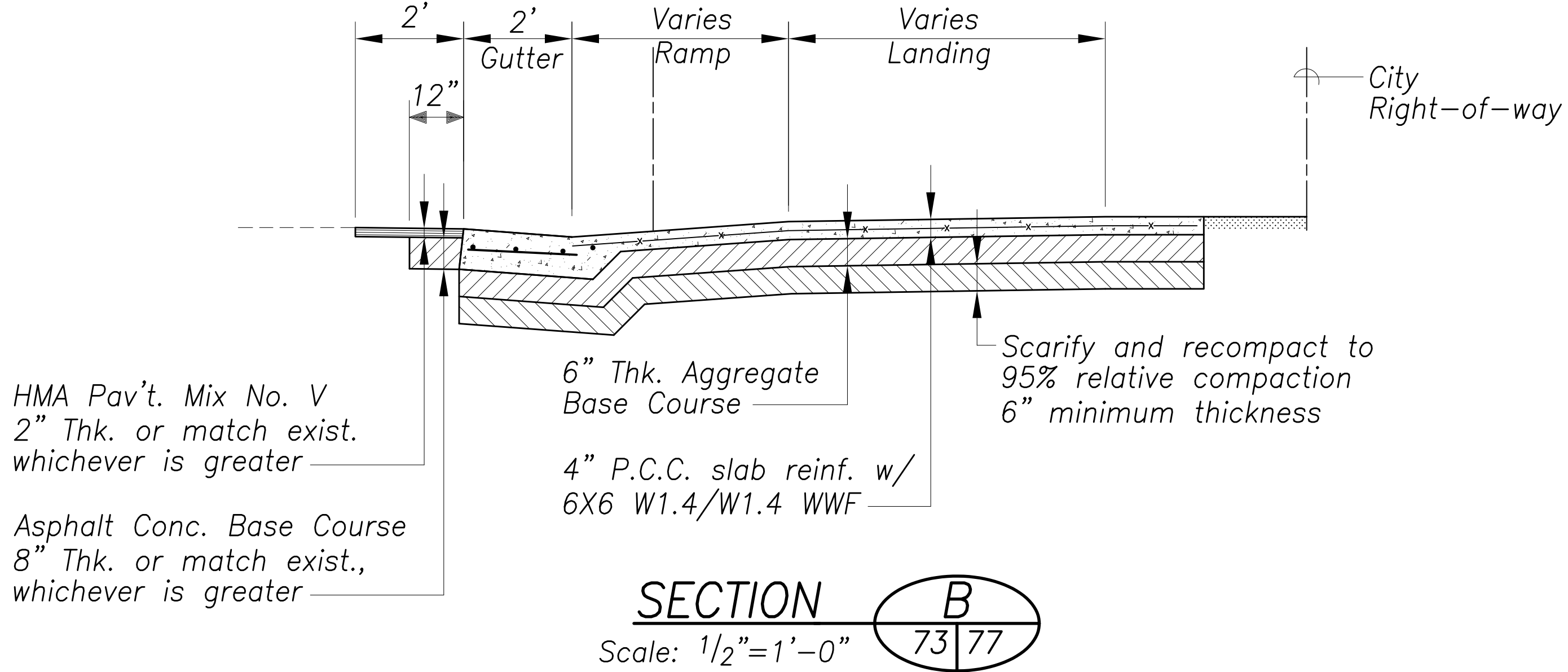
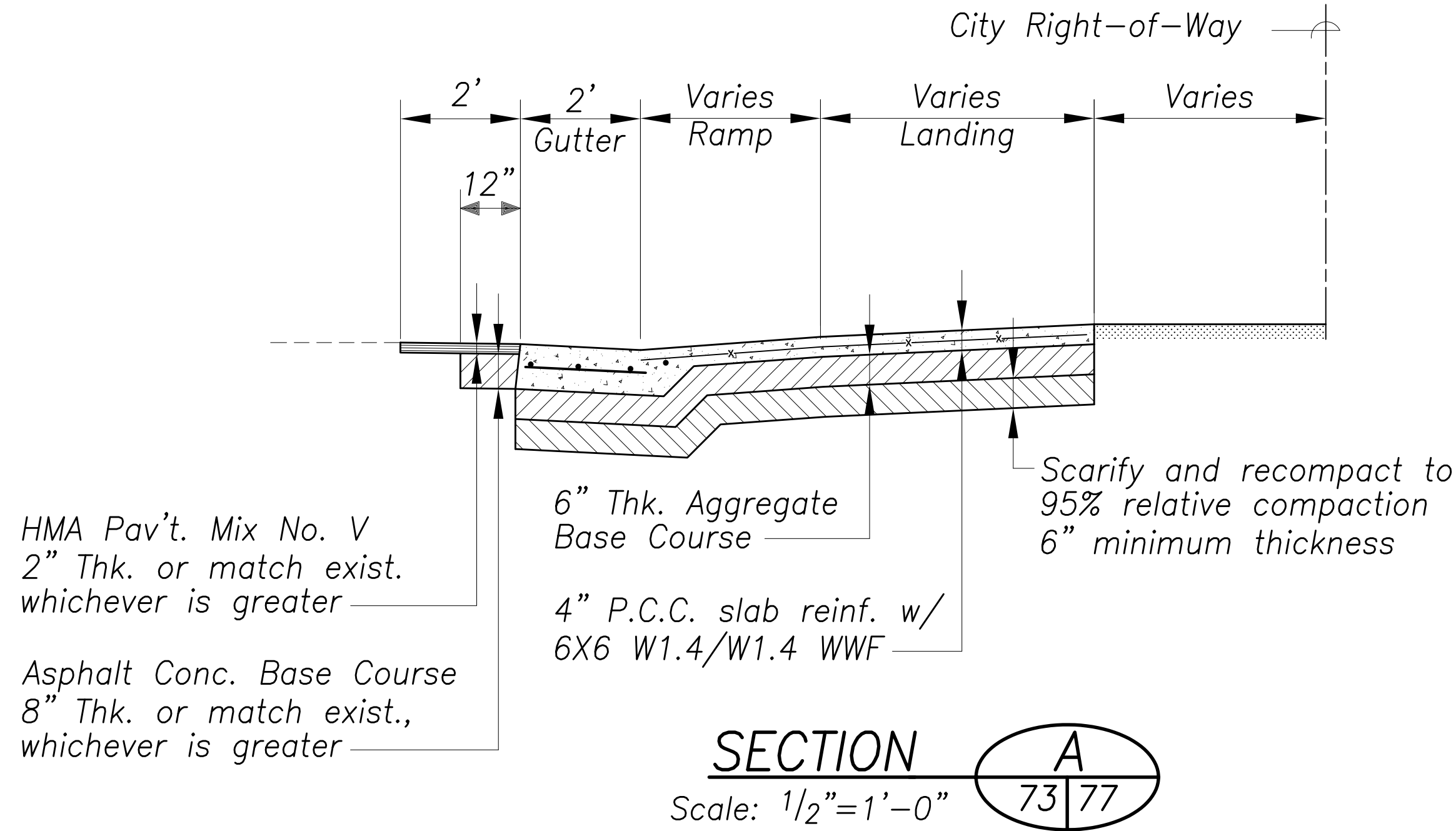
Traffic Signal Modernization,
Oahu, Phase 1

Federal-Aid Project No. STP-0300(163)

Scale: as shown Date: July 2020

SHEET No. R-46 OF 65 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0300(163)	2020	77	284

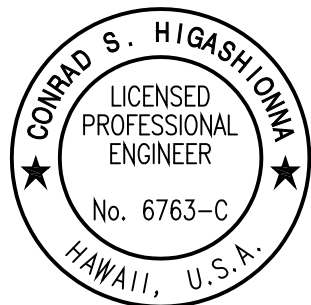


SURVEY PLOTTED BY	DATE
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DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
No.	

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Approved By: _____ Date _____

Chief, Civil Engineering Branch, DPP
(For construction in City ROW only)



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Conrad Higashimura

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Traffic Signal Modernization,
Oahu, Phase 1
Federal-Aid Project No. STP-0300(163)
Scale: _____ Date: July 2020
SHEET No. 47 OF 65 SHEETS