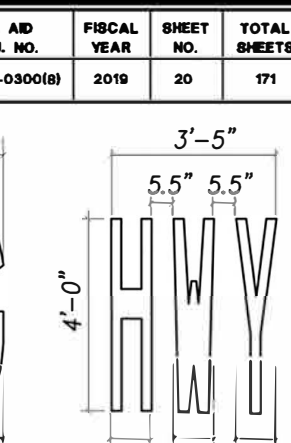
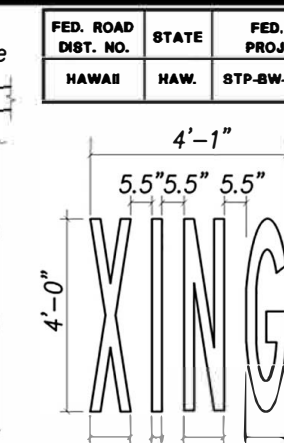
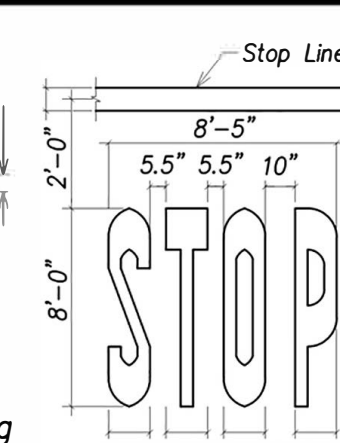
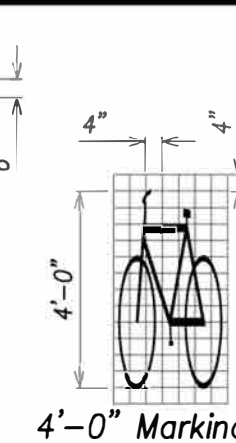
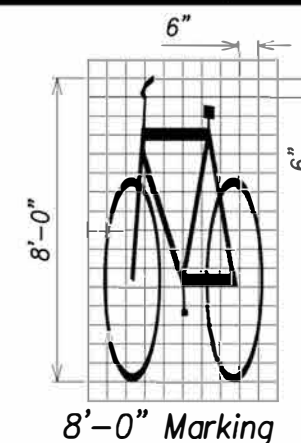
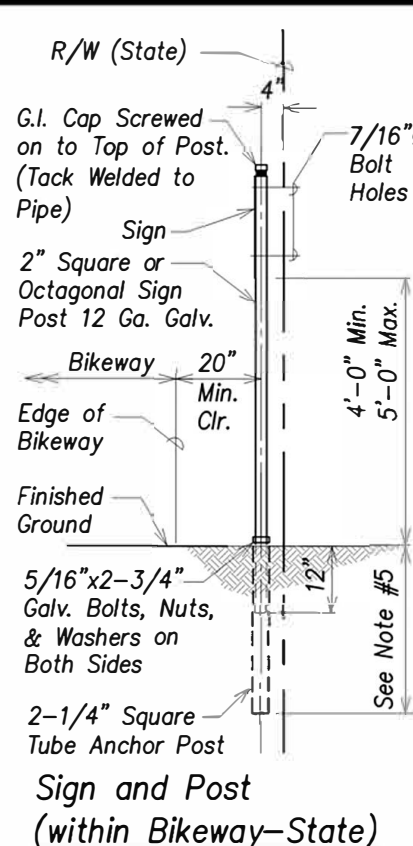
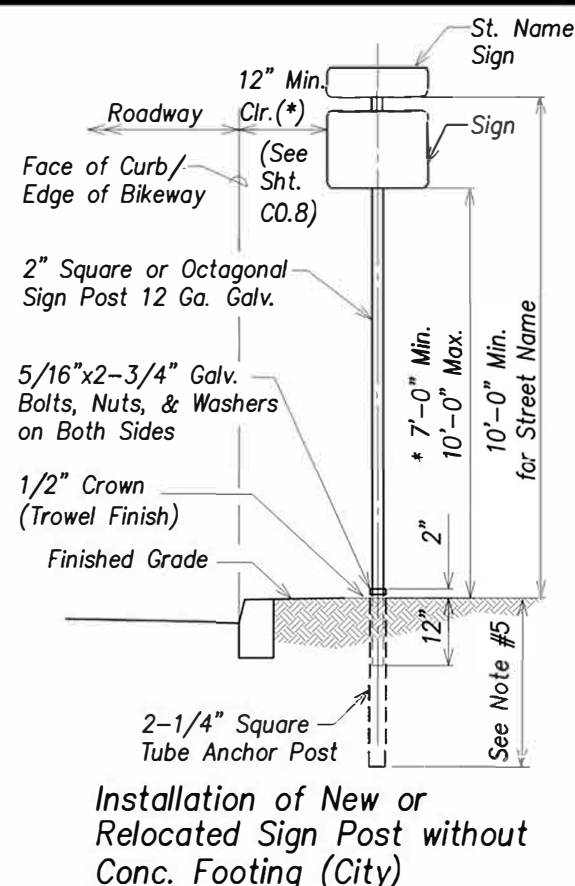
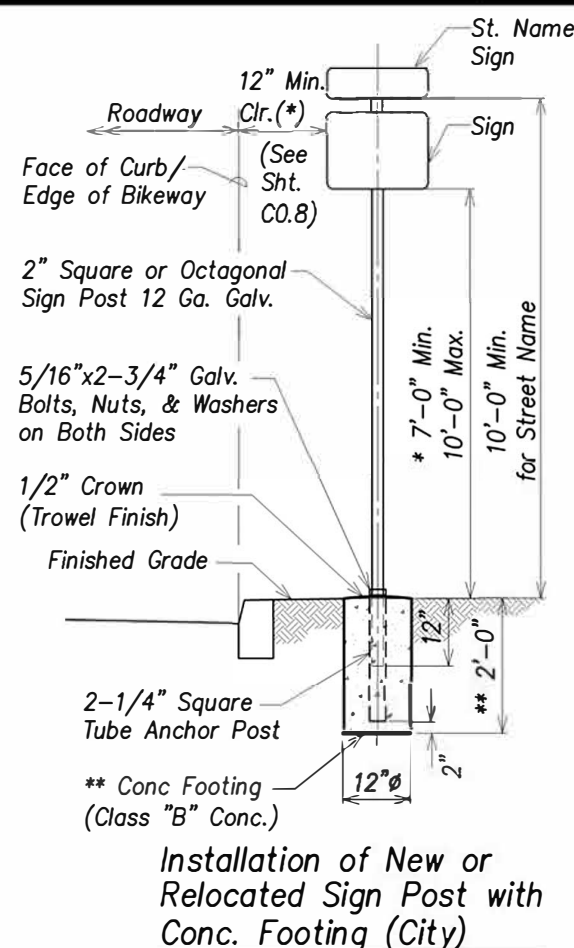


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-BW-0300(8)	2019	20	171



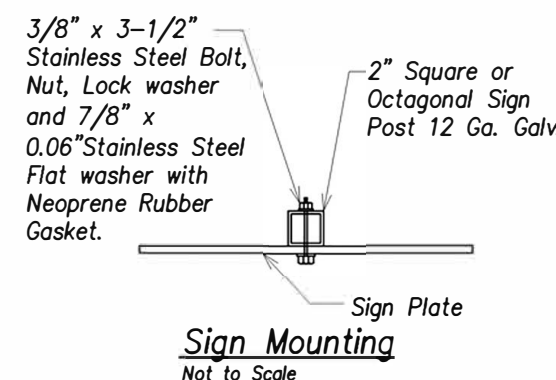
Sign Notes:

(*) All sign(s) installation must meet lateral and height clearances including new signs that will be posted on to existing sign post. Extend, relocate or replace as required to meet clearance requirements.

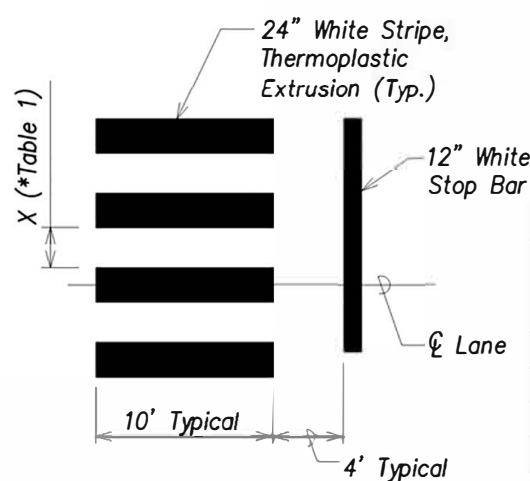
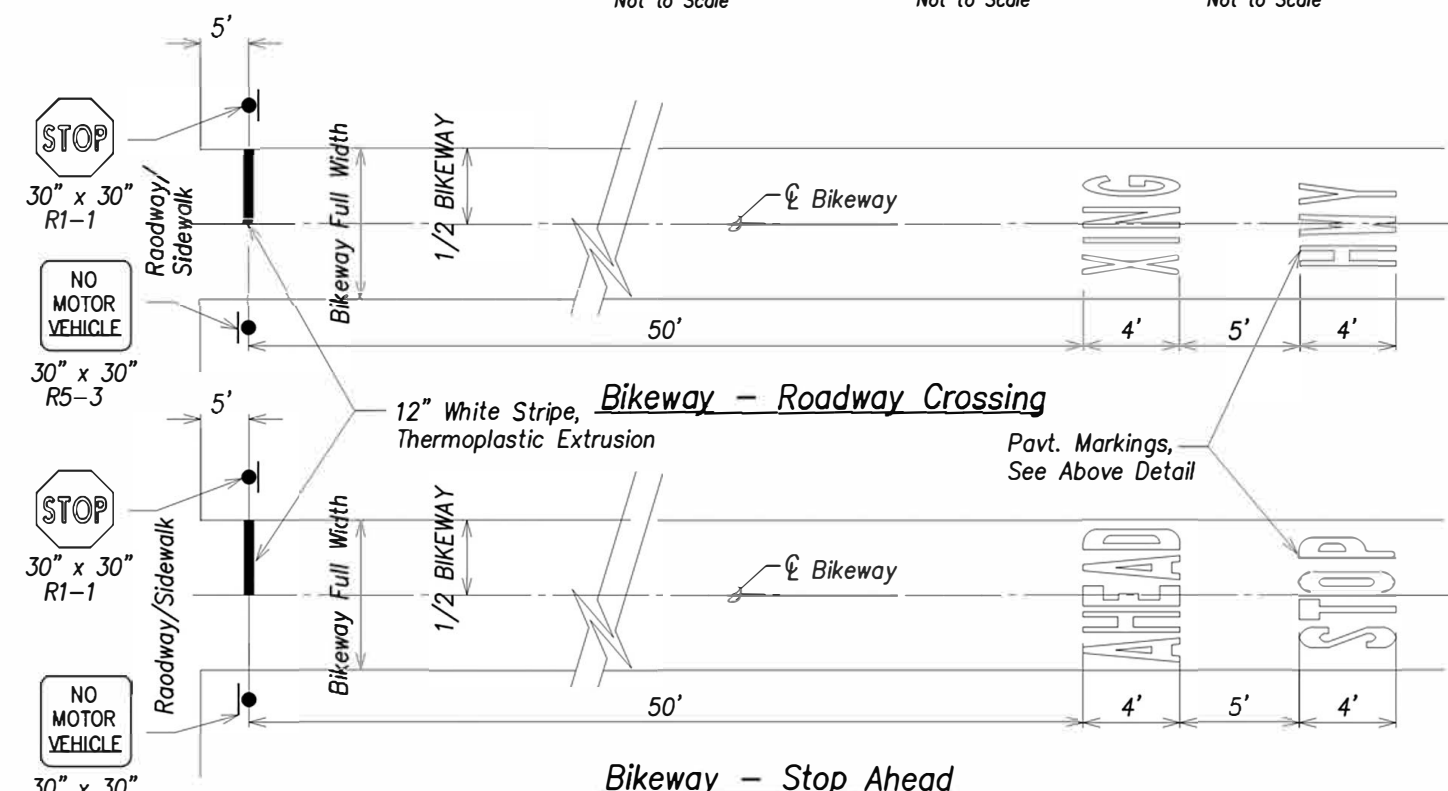
(**) For Grassed Area Installation: Install with Conc Footing (Class "B" Conc.)

Anchor Post Notes:

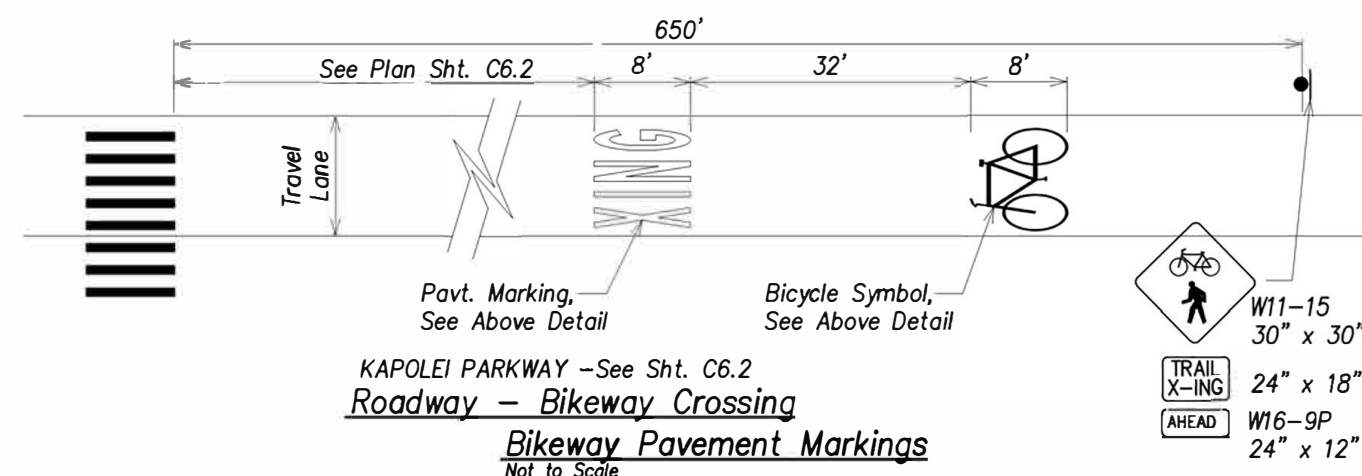
1. Keep inside of 2-1/4" anchor post free from impediments that may prevent proper seating of 2" sign post.
2. Square tubing sign post shall be telescoping type with 7/16"Ø holes at 1" o.c. on two sides.
3. Octagon sign post shall be telescoping type with 7/16" dia. holes at 1" o.c. on four sides.
4. Use 5/16"x 2-3/4" bolts to secure the octagonal and square tubing post onto the square tube anchor post.
5. Minimum bury depth for the 2-1/4" anchor post shall be as follows:
4'-0" Min. for Poor Soil
2'-6" Min. for Rocky Condition



Sign and Post Details
Not to Scale



*Table 1	
Land Width (W)	X (Distance between Crosswalk Bars)
<12'	3'
12'-14'	4'
15'-17'	5'
>17'	3'



APPROVED BY

Chief, Traffic Review Branch, DPP
(For Work within City R/W only)

Date _____

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

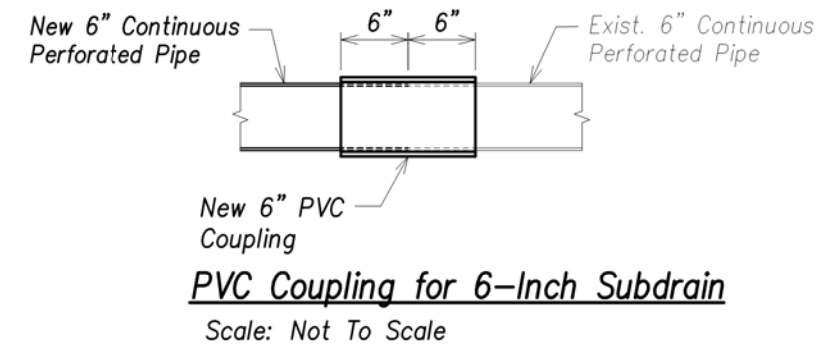
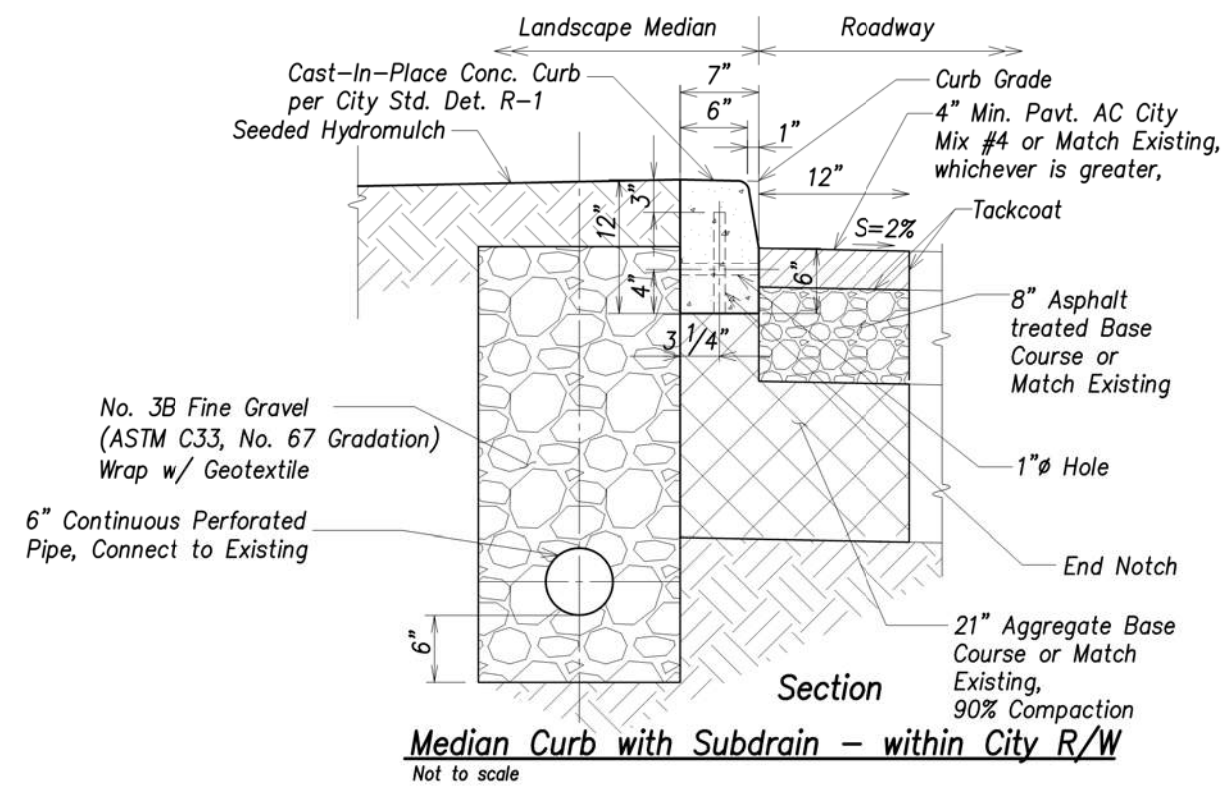
SIGNAGE AND STRIPING DETAILS

LEEWARD BIKEWAY
Philippine Sea Rd. to Waipahu Depot Street
Fed. Aid Proj. No. STP-BW-0300(8)

Date: July 1, 2019

SHEET No. C1.5 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-BW-0300(8)	2019	22	171



Note:

See Sheet S0.2 for additional information.

APPROVED BY

Chief, Civil Engineering Branch, DPP Date



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Signature: ASK: [Signature] DATE OF LICENSE EXPIRY: APR 30, 2020

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAILS

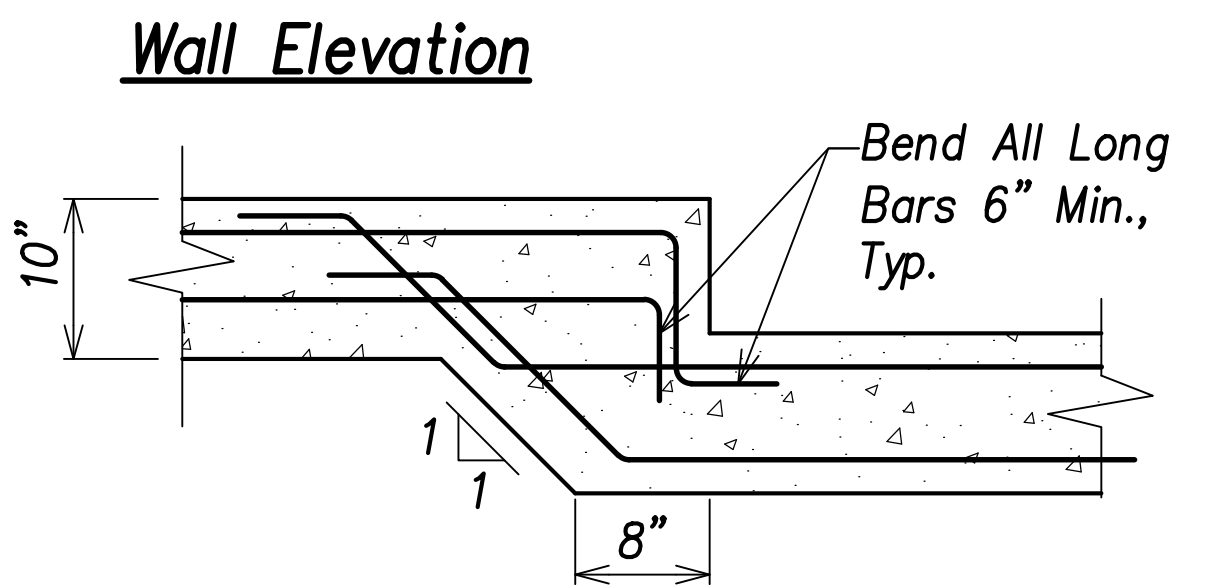
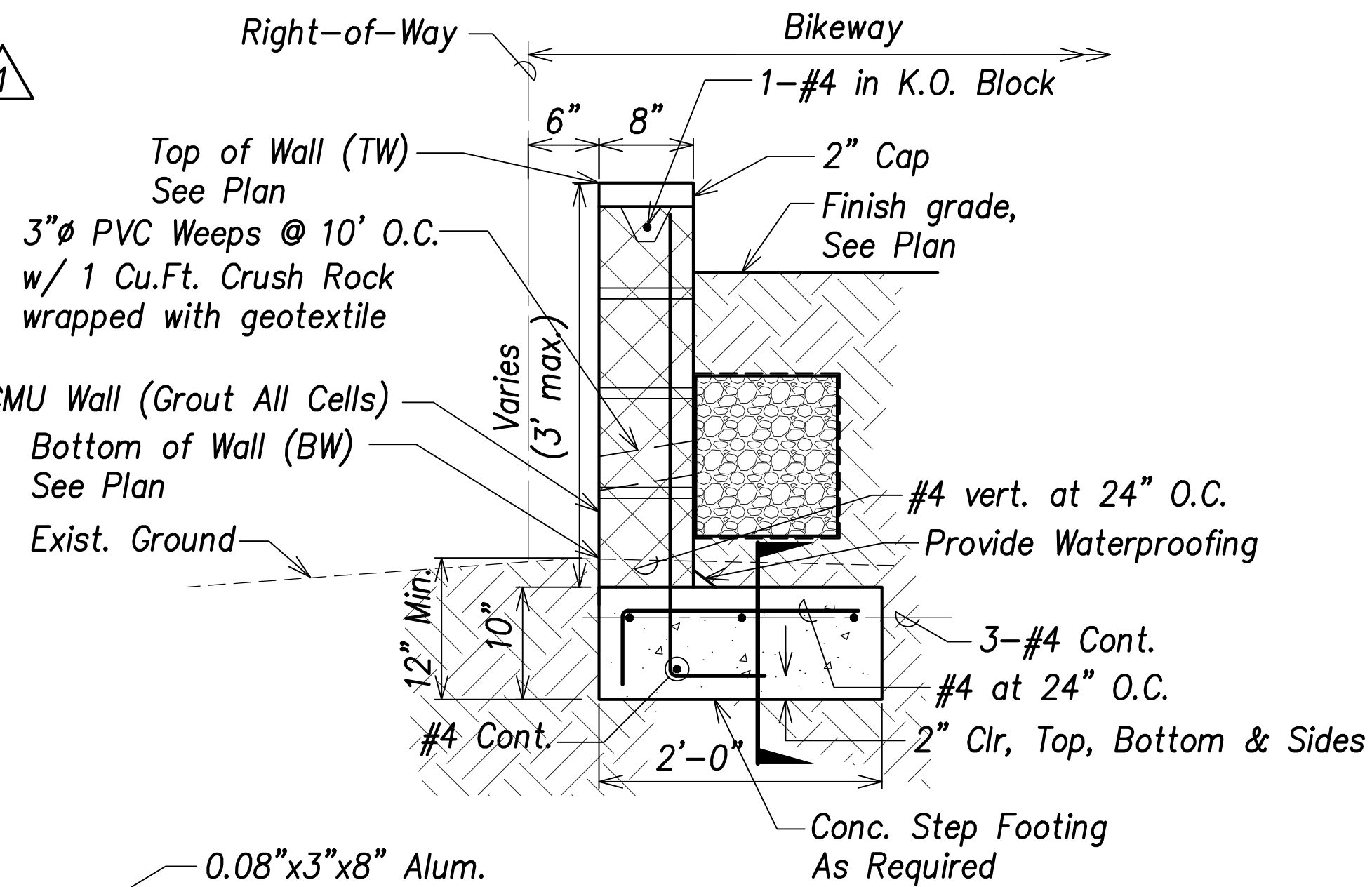
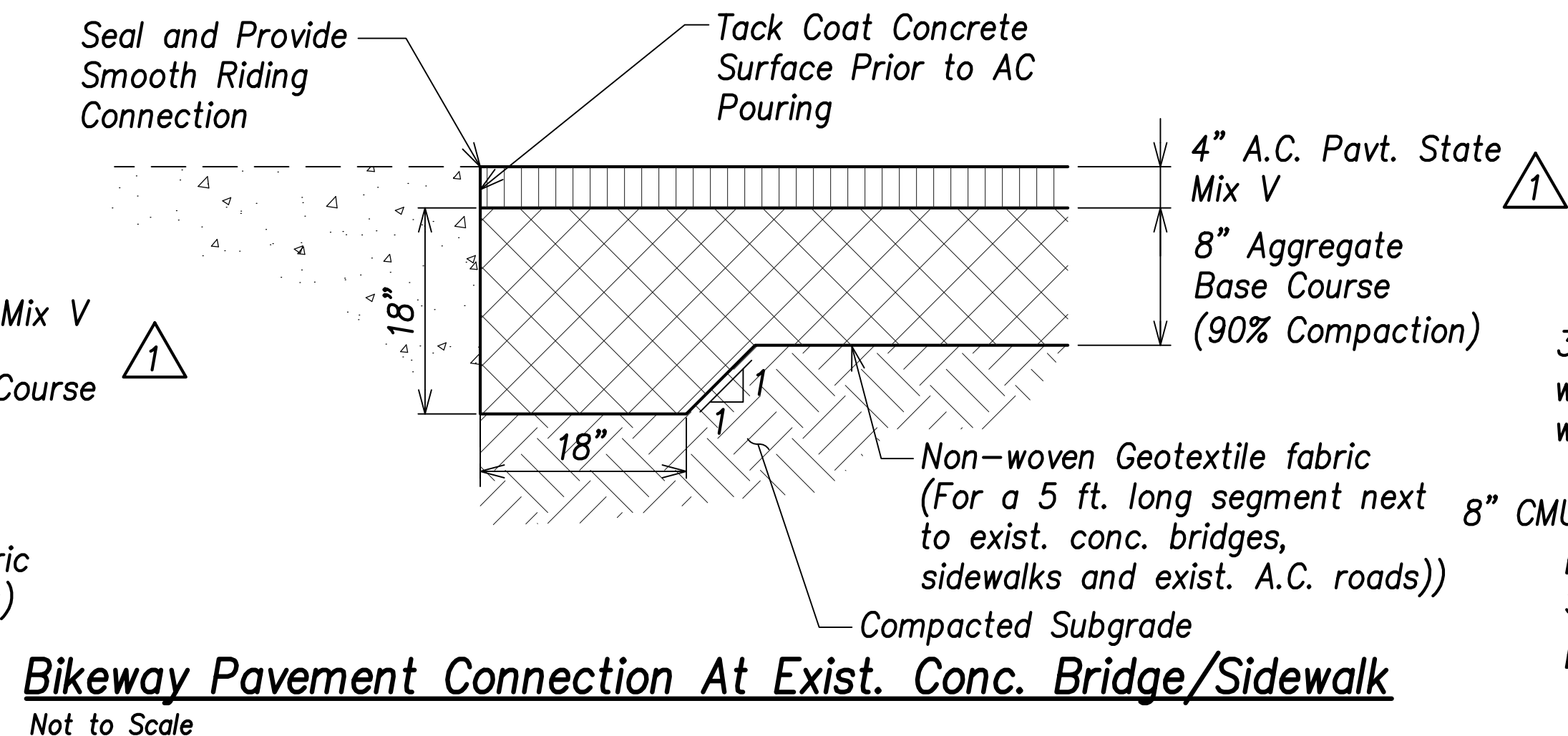
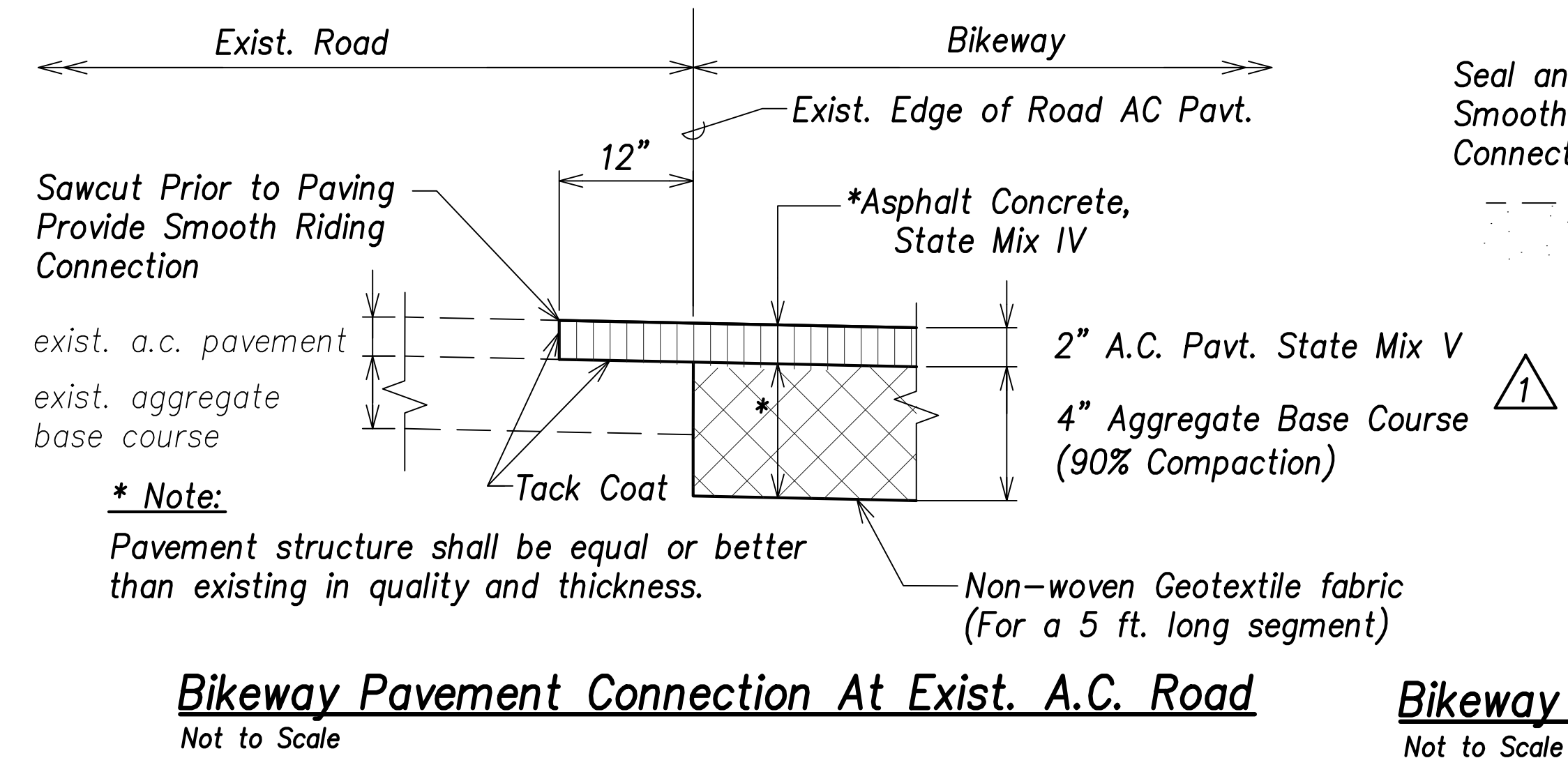
LEEWARD BIKEWAY
Philippine Sea Rd. to Waipahu Depot Street
Fed. Aid Proj. No. STP-BW-0300(8)

Date: July 1, 2019

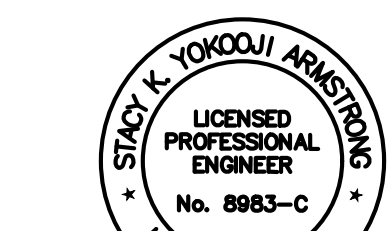
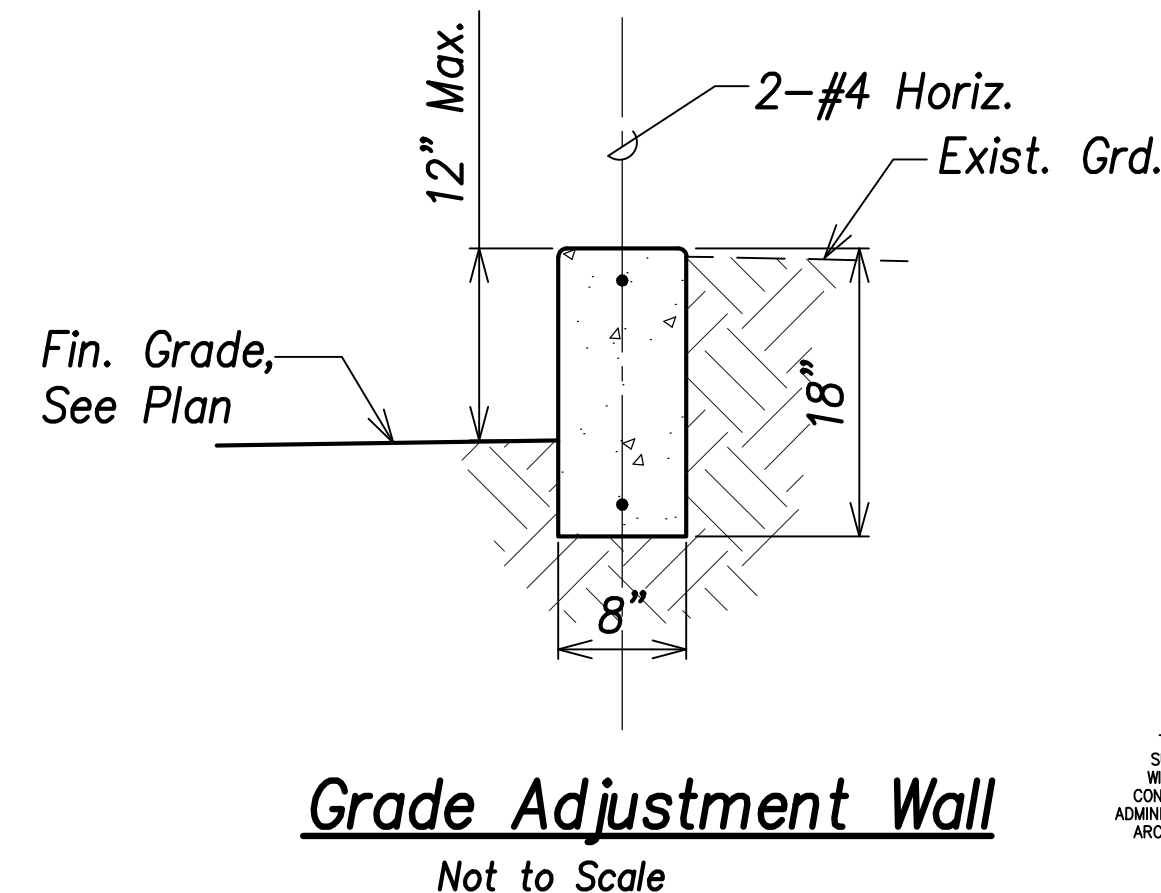
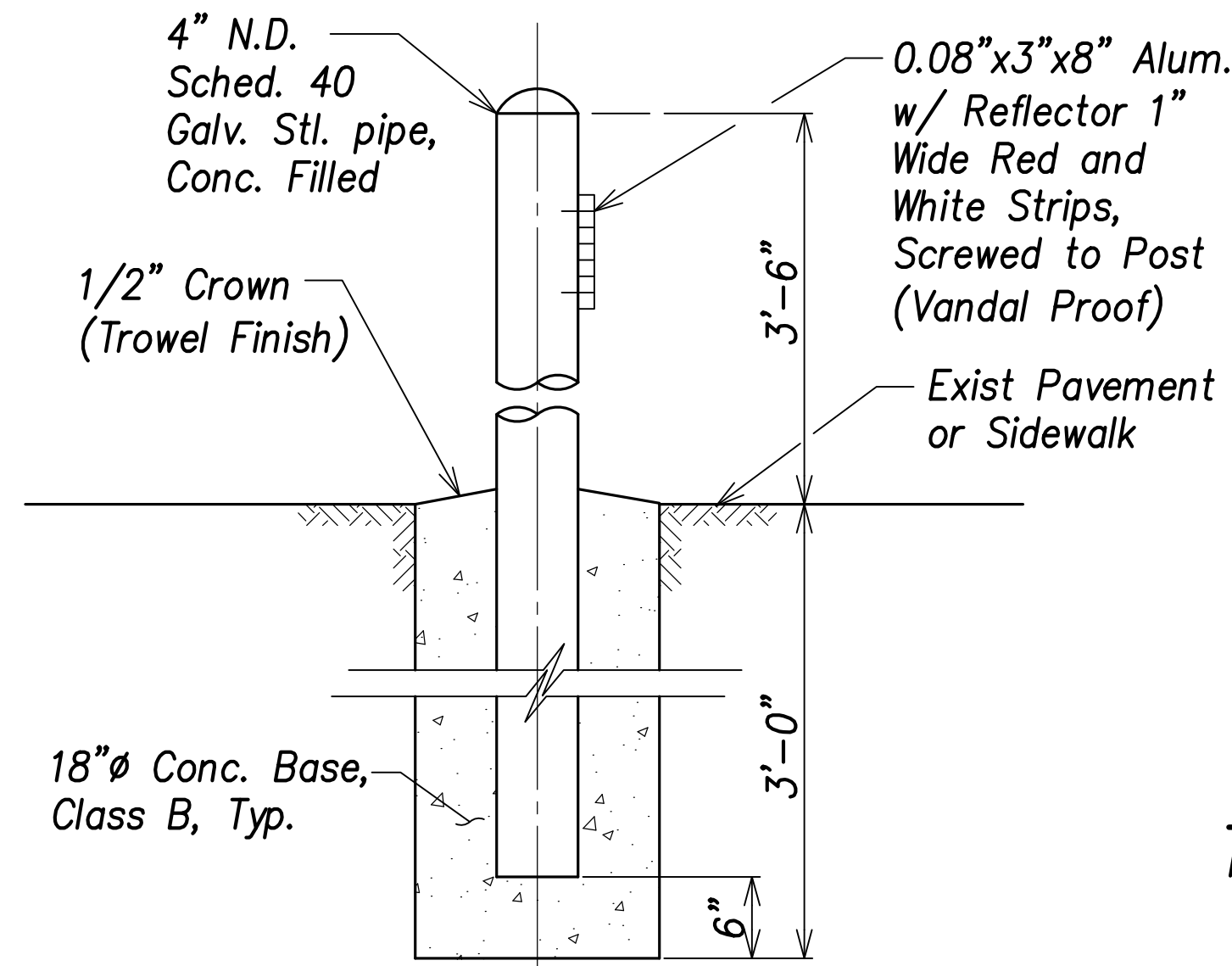
SHEET No. C1.7 OF 13 SHEETS

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-BW-0300(8)	2019	24	171



Step Footing Section
Not to Scale

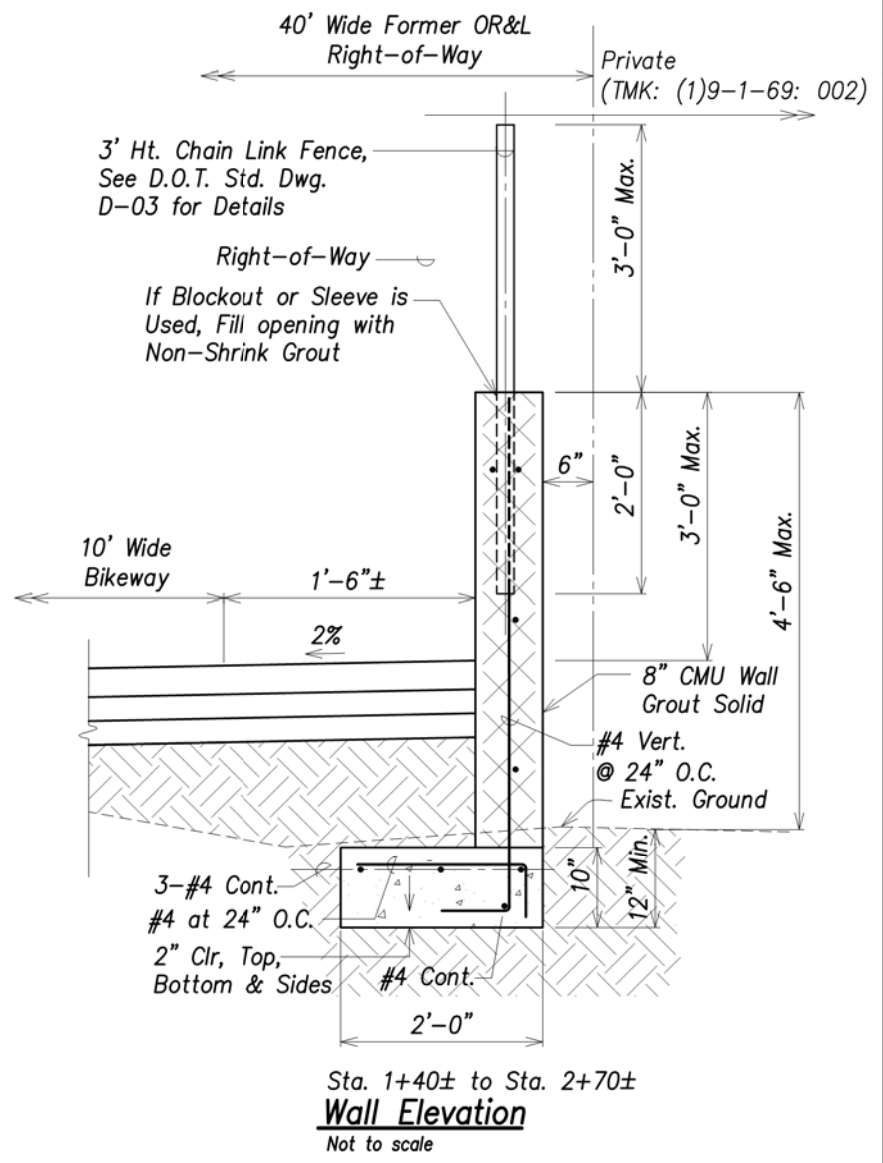
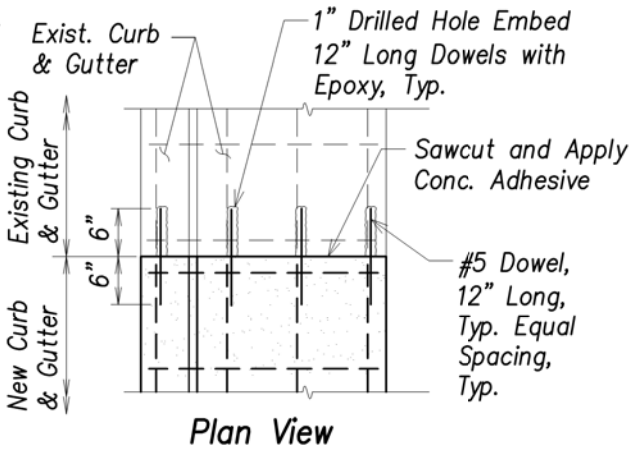
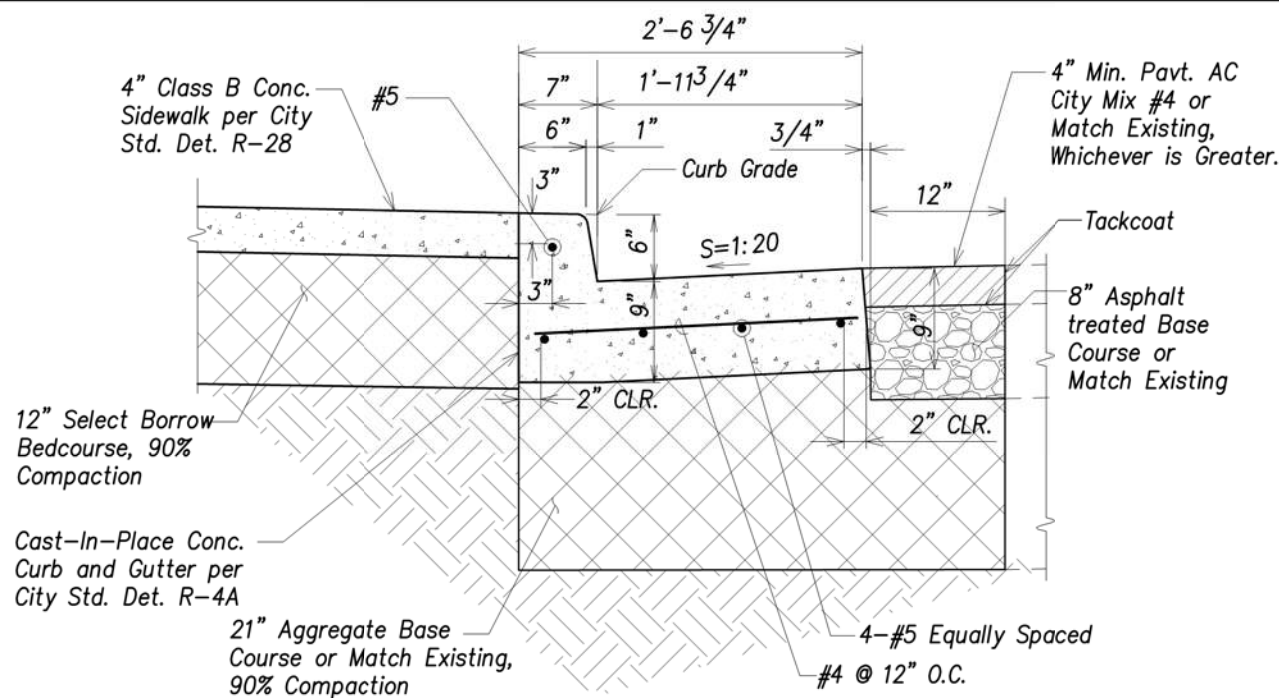


THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. "OBSERVATION OF CONSTRUCTION" IS DEFINED IN CHAPTER 10-115, HAWAII ADMINISTRATIVE RULES, DUTIES OF PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS AND LANDSCAPE ARCHITECTS.

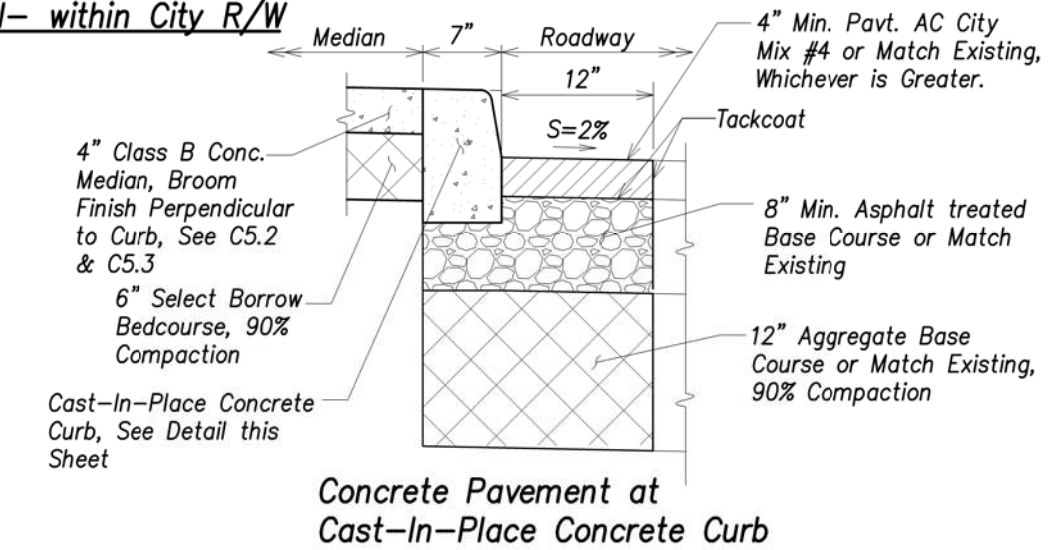
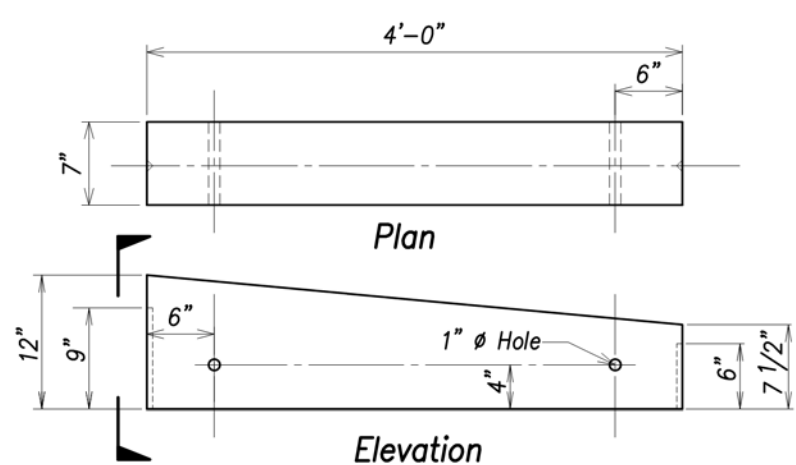
DATE OF LICENSE EXPIRY: APR 30, 2020

11/1/19	Rev. details
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION MISCELLANEOUS DETAILS LEEWARD BIKEWAY Philippine Sea Rd. to Waipahu Depot Street Fed. Aid Proj. No. STP-BW-0300(8)	
Date: Sept. 1, 2019	
SHEET No. C1.9 OF 13 SHEETS	

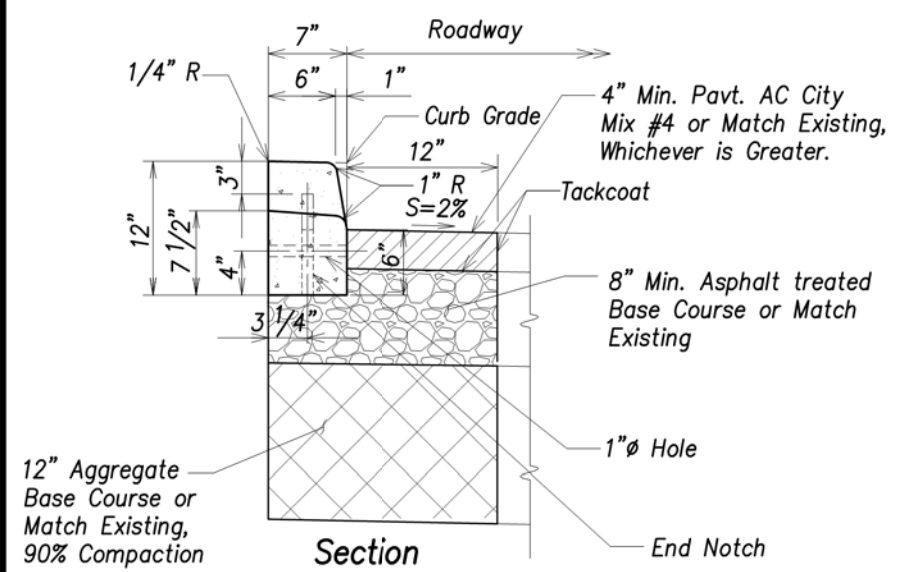
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-BW-0300(8)	2019	25	171



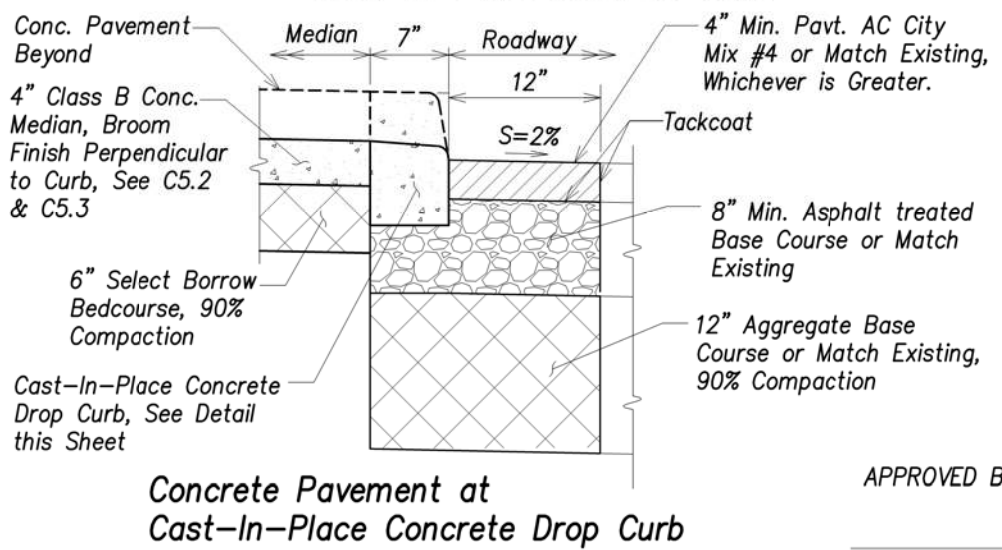
Cast-In-Place Integral Curb and Gutter (Reinforced) Connection Detail- within City R/W
Not to scale



Concrete Pavement at Cast-In-Place Concrete Curb



Cast-In-Place Concrete Drop Curb Block (City)
Not to scale



Cast-In-Place Median Concrete Pavement (City)
Not to scale

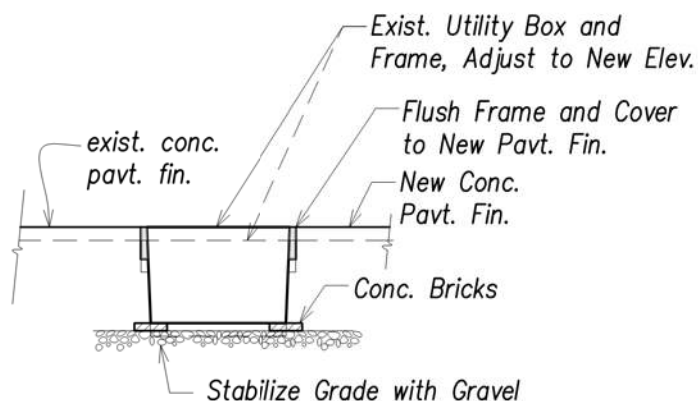
APPROVED BY
Chief, Civil Engineering Branch, DPP Date
(For Construction within City R/W only)



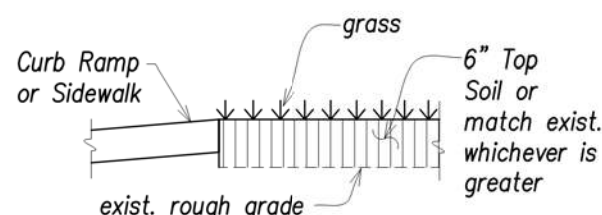
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
MISCELLANEOUS DETAILS
LEEWARD BIKEWAY
Philippine Sea Rd. to Waipahu Depot Street
Fed. Aid Proj. No. STP-BW-0300(8)
Date: July 1, 2019
SHEET No. C1.10 OF 13 SHEETS

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-BW-0300(8)	2019	27	171



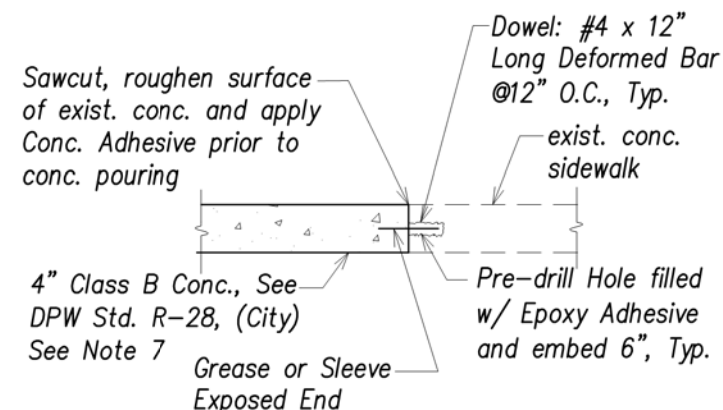
Utility Box Frame and Cover Adjustment Detail
Not to scale



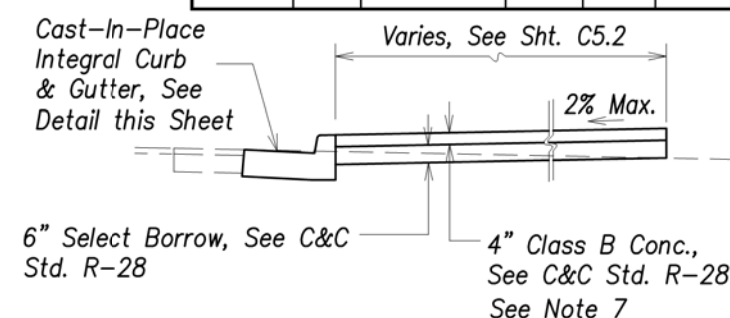
Grass Restoration
Not to scale

Notes:

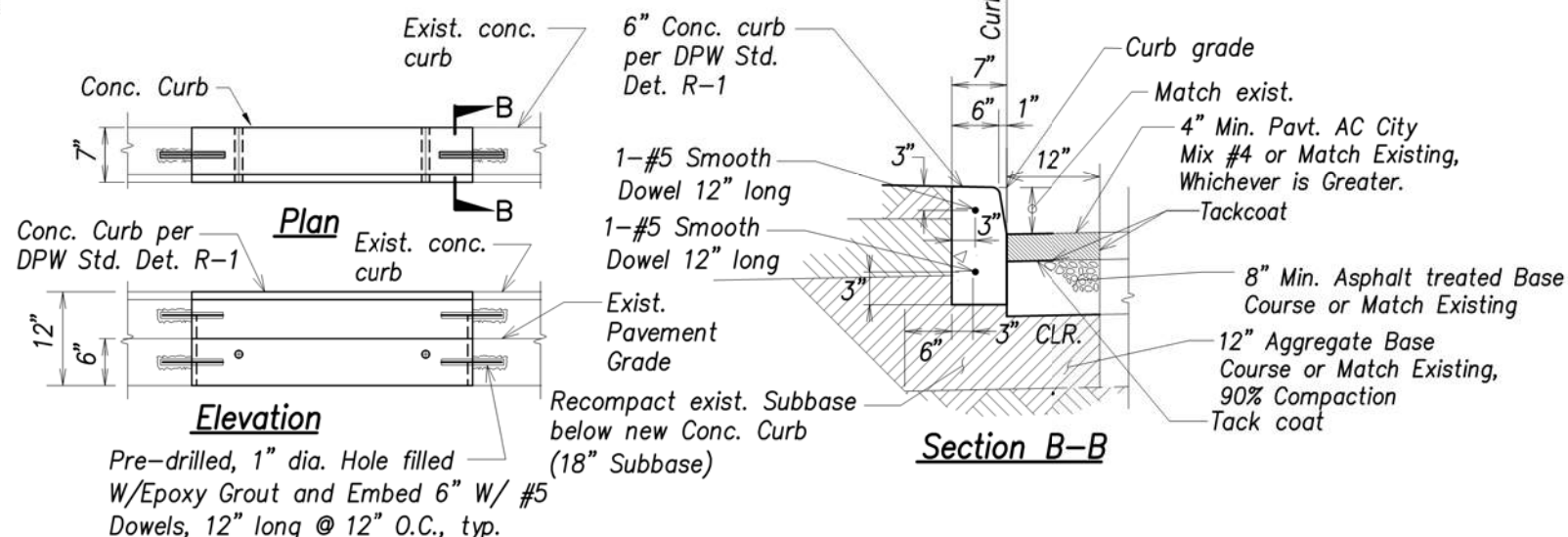
1. See General Notes for work within City R/W sht. C0.3.
2. All saw cutting work shall be considered incidental and will not be paid for separately.
3. The contractor shall clean and remove all accumulation of aggregates along the roadside. This work shall be considered incidental to the various contract items and will not be paid for separately.
4. Removal, hauling, and disposal of existing asphalt concrete pavement, base course and any debris shall be considered incidental and will not be paid for separately.
5. Dressing of shoulder shall consist of reshaping and compacting with suitable material from the area adjacent to the improvement, flush to the edge of pavement, and/or as directed by the engineer and shall be considered incidental to repavement.
6. Provide smooth connection where new asphalt repavement / reconstruction meets the existing asphalt concrete pavement. Tack coat shall be incidental to the various asphalt concrete paving and reconstruction.
7. Construction of new concrete sidewalks shall comply with City and County of Honolulu (CCH) Memorandum No. CEB-1-09 under the subject "Jointing Requirements for Concrete Sdewalks and Driveways," dated April 6, 2009.



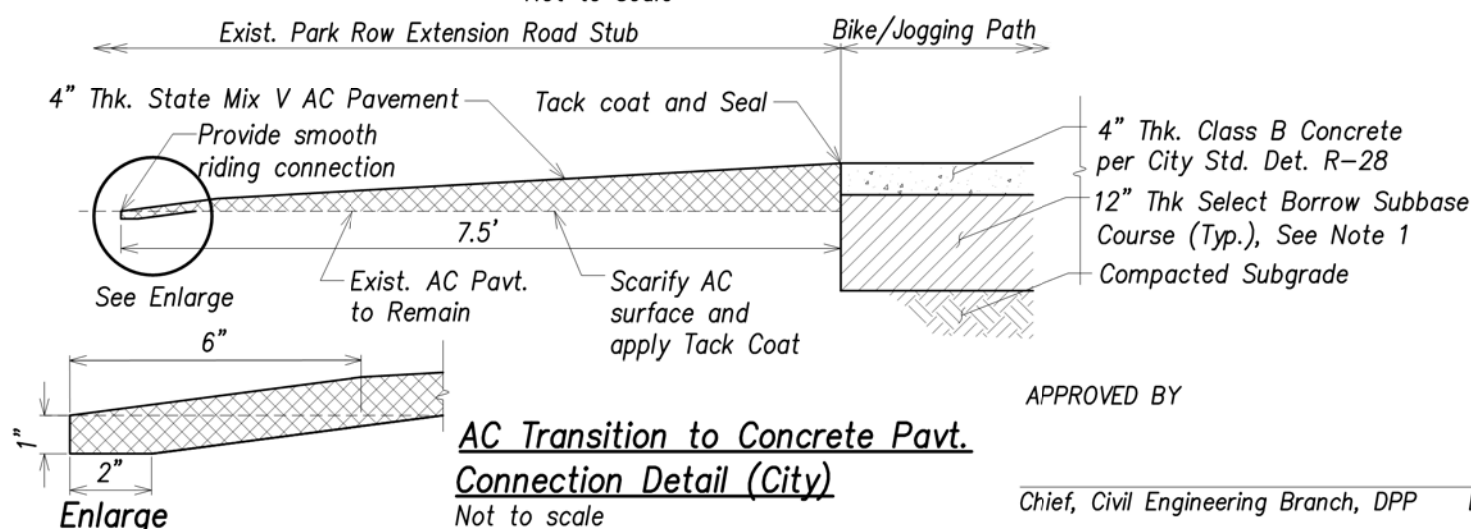
Concrete to Concrete Sidewalk Pavt. Connection Detail (City)
Not to scale



Conc. Sidewalk Detail (City)
Not to scale



Concrete Curb Connection
Not to scale



AC Transition to Concrete Pavt. Connection Detail (City)
Not to scale

APPROVED BY

Chief, Civil Engineering Branch, DPP Date



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

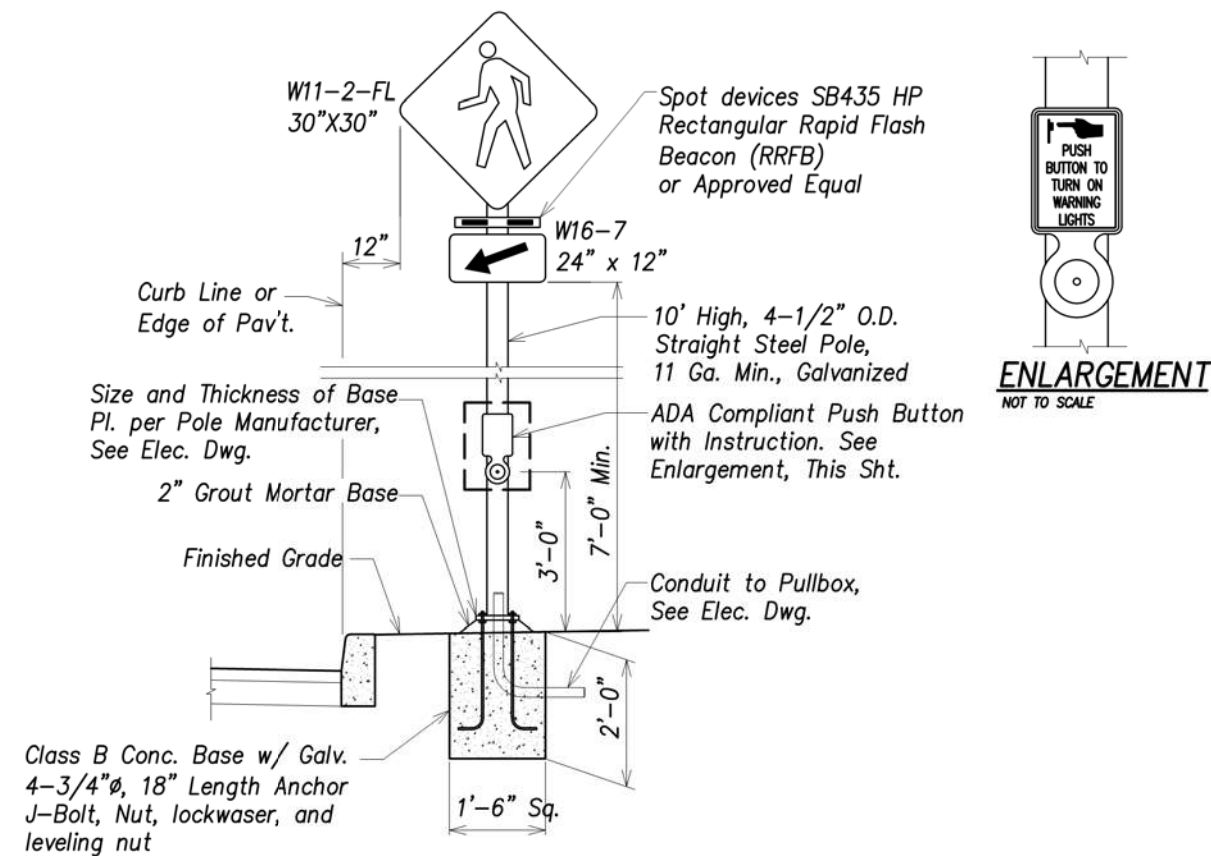
MISCELLANEOUS DETAILS

LEEWARD BIKEWAY
Philippine Sea Rd. to Waipahu Depot Street
Fed. Aid Proj. No. STP-BW-0300(8)

Date: July 1, 2019

SHEET No. C1.12 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-BW-0300(8)	2019	28	171



NOTES:

- Contractor shall install Signs and Post and Rectangular Rapid Flash Beacon (RRFB) and Push Button, per the manufacturer's specifications. See electrical drawings for additional details and requirements.
- Rectangular Rapid Flash Beacon shall be approved by the FHWA and MUTCD. contractor shall submit product data to the Engineer for review and approval by the Engineer and the C&C Dept. of Transportation Services prior to purchasing and installation.
- The RRFB installation shall comply with the technical conditions as provided in the FHWA Technical Memorandum regarding the interim approval for optional use of Rectangular Rapid Flash Beacon.
- Contractor shall mount single RRFB controller behind the W11-2-FL sign as indicated on this sheet. Mounting shall be per manufacturer's specifications.

See Mounting Location on Sht. C6.2
**CROSSWALK SIGNS WITH LED
RECTANGULAR RAPID FLASH BEACON**
NOT TO SCALE

APPROVED BY

Chief, Traffic Review Branch, DPP
(For Work within City R/W only)

Date



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MISCELLANEOUS DETAILS

LEEWARD BIKEWAY
Philippine Sea Rd. to Waipahu Depot Street
Fed. Aid Proj. No. STP-BW-0300(8)

Date: July 1, 2019

SHEET No. C1.13 OF 13 SHEETS

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