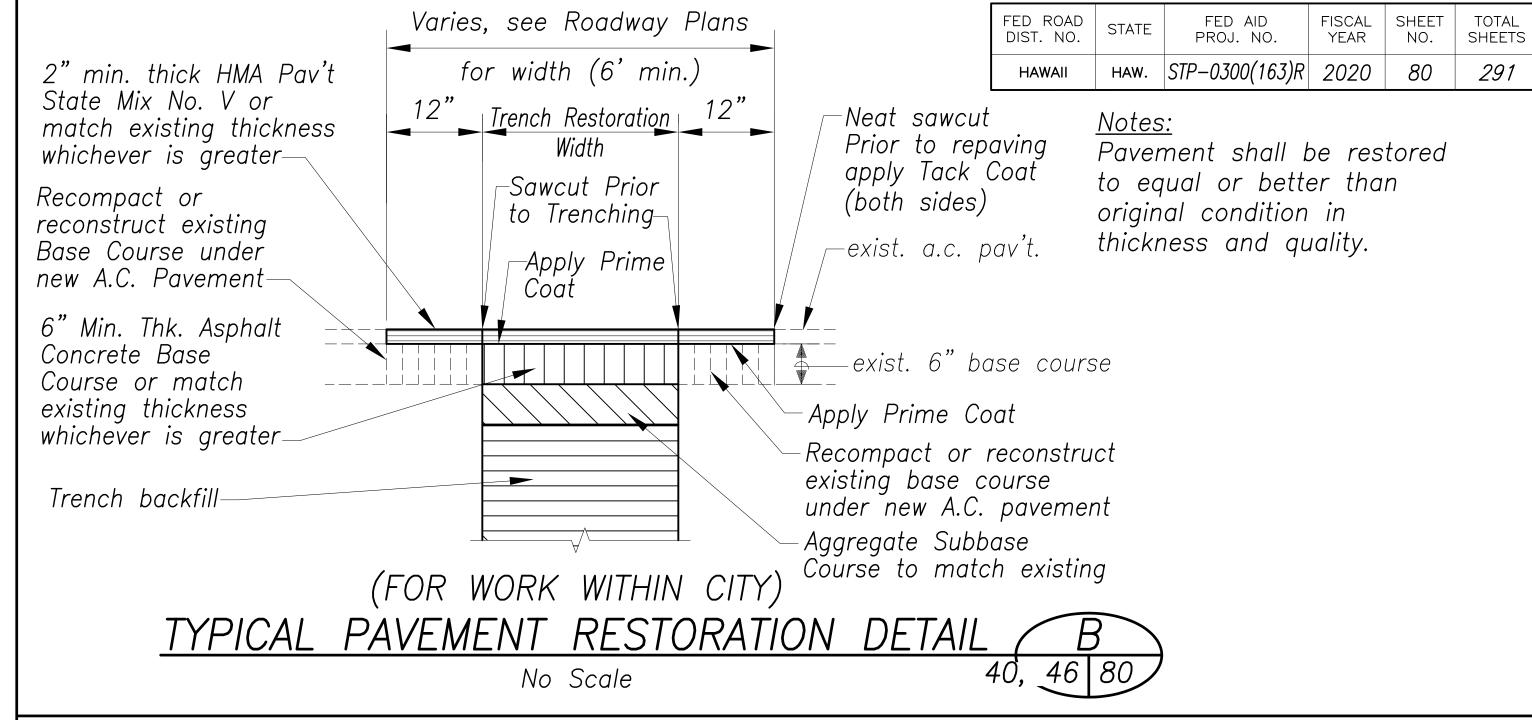


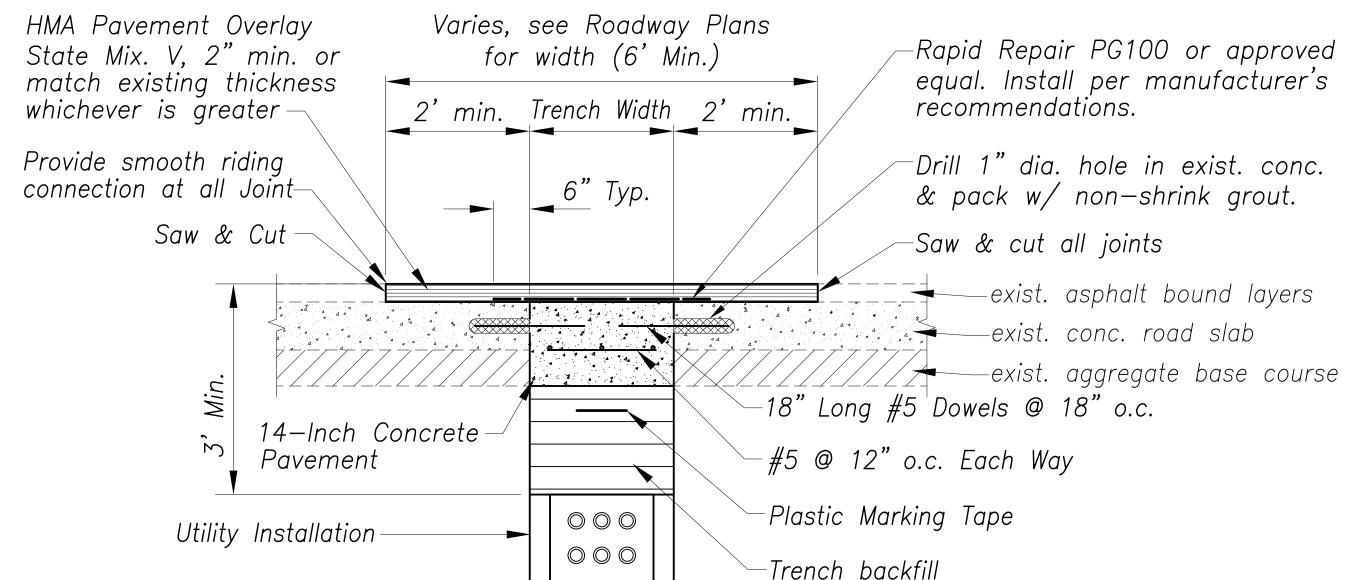
(FOR WORK WITHIN STATE R/W)
ASPHALT PAVEMENT RESTORATION OVER TRENCH EXCAVATION

No Scale 34, 35, 36, 40, 42, 45, 46, 47 80

<u>NOTES</u>

- 1. Tack coat faces of existing asphalt bound materials prior to filling excavation with new asphalt bound materials.
- 2. All work performed shall be subject to inspection by the State and shall be to the State's satisfaction.
- 3. Construct the trench restoration in accordance with the Hawaii Standard Specifications for Road and Bridge Construction, 2005, and its special provisions, and the specification of installation of miscellaneous improvements within State Highways.
- 4. Pavement Smoothness
 - A. Obtain a profile of the existing roadway surface that is to have a new surface as a result of the restoration of the trench excavation and submit the profile to the district Engineer before any work for trench excavation begins.
 - B. Obtain a profile of the roadway surface after the roadway surface has been repaved and submit the profile to the district Engineer. The profile of the roadway surface after repaving shall be equal to or smoother than the profile obtained before trench excavation began.
 - C. The distance from the paved surface to the testing edge of ten-foot long straight edge between two points of contact shall not exceed inch.
- 5. Place all unbound materials in the trench as follows:
 - A. Compaction by water jetting or ponding is not permitted.
 - B. All unbound materials, expect the permeable base and ASTM C-33 size 67:
 - Place material in accordance with subsection 206.03 (B) Structure and Trench Backfill of the Hawaii Standard Specifications for Road, Bridge, and Public Works Construction.
 - Take one compaction test for 300 lineal feet of trench. Submit compaction test results to The District Engineer.
 - C. Permeable Base:
 - Place permeable material in uniform horizontal layer not exceeding 9 inches in compacted thickness.
 - Compact each layer with at least 8 passes with a smooth drum vibratory compactor (Rammax) until compacted material is firm and unyielding. Use hand tamper if trench too narrow to accommodate the vibrating plate compactor.
 - D. ASTM C-33, size 67:
 - Material placed under water need not be compacted.
 - Material placed above water:
 - I. Place material in uniform horizontal layer not exceeding 9 inches in loose thickness.
 - II. Compact each layer with at least 8 passes with a smooth drum vibratory compactor (Rammax) until compacted material is firm and unyielding. Use hand tamper if trench too narrow to accommodate the vibrating plate compactor.





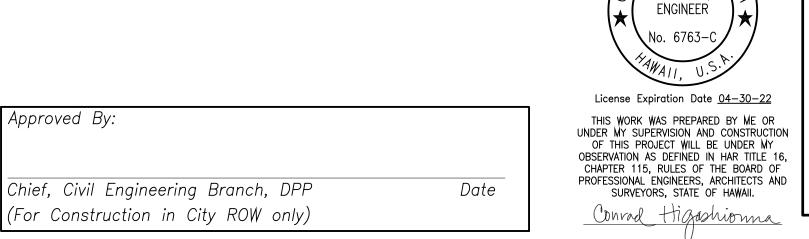
Notes:

- 1. The cost for HMA pavement overlay and furnishing/installation of Rapid Repair PG100 shall be incidental to the various contract items and will not be paid for separately.
- 2. The cost for furnishing and installing reinforcing bars and dowels shall be incidental to the 14-inch Concrete Pavement and will not be paid for separately.

(FOR WORK WITHIN STATE R/W)

ASPHALT/P.C.C. PAVEMENT RESTORATION C OVER TRENCH EXCAVATION 40,41,45,46,47,49 80

No Scale



STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

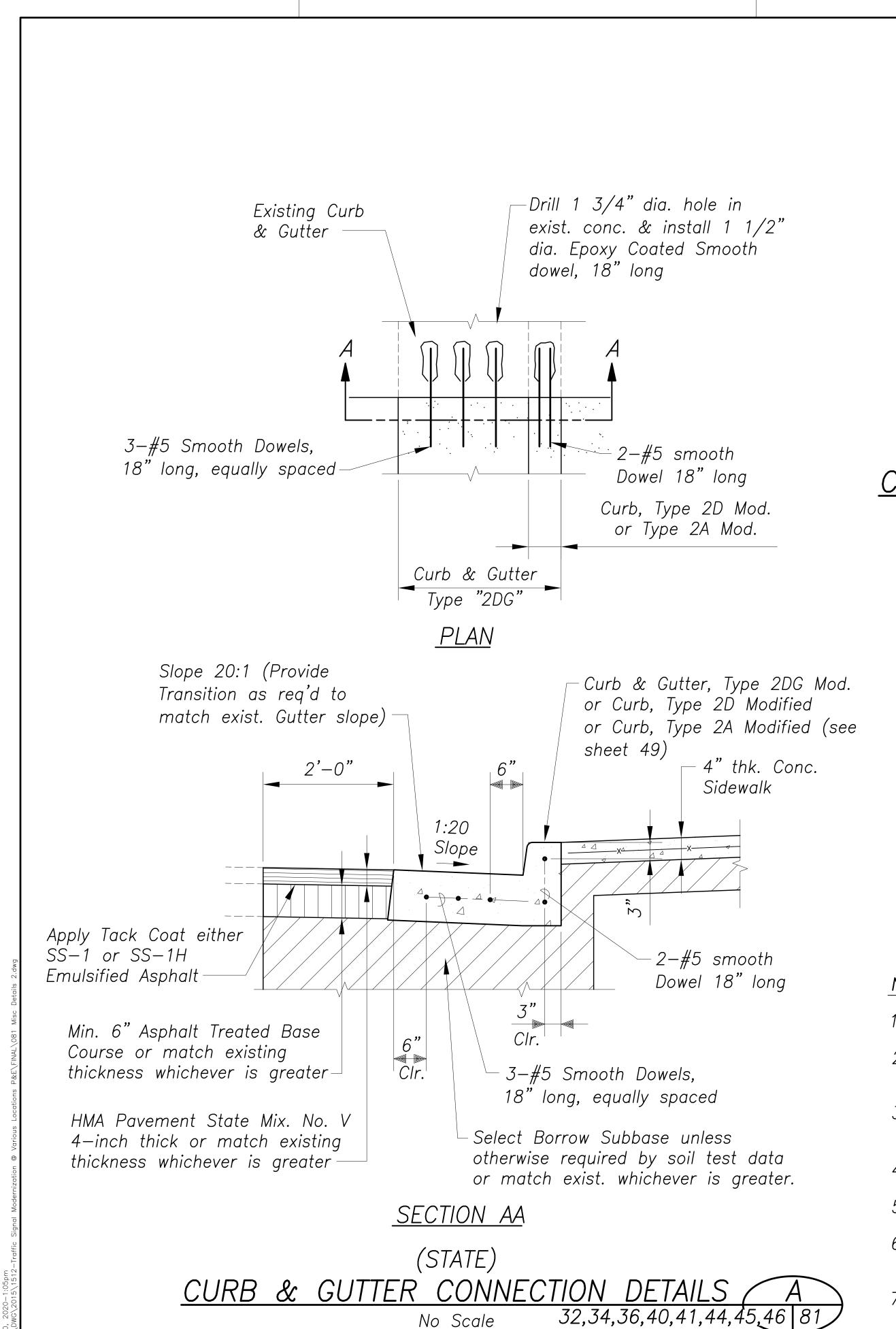
MISCELLANEOUS DETAILS

Traffic Signal Modernization, Oahu, Phase
Federal—Aid Project No. STP—0300(163)R
Scale: none Date: Oct. 2020

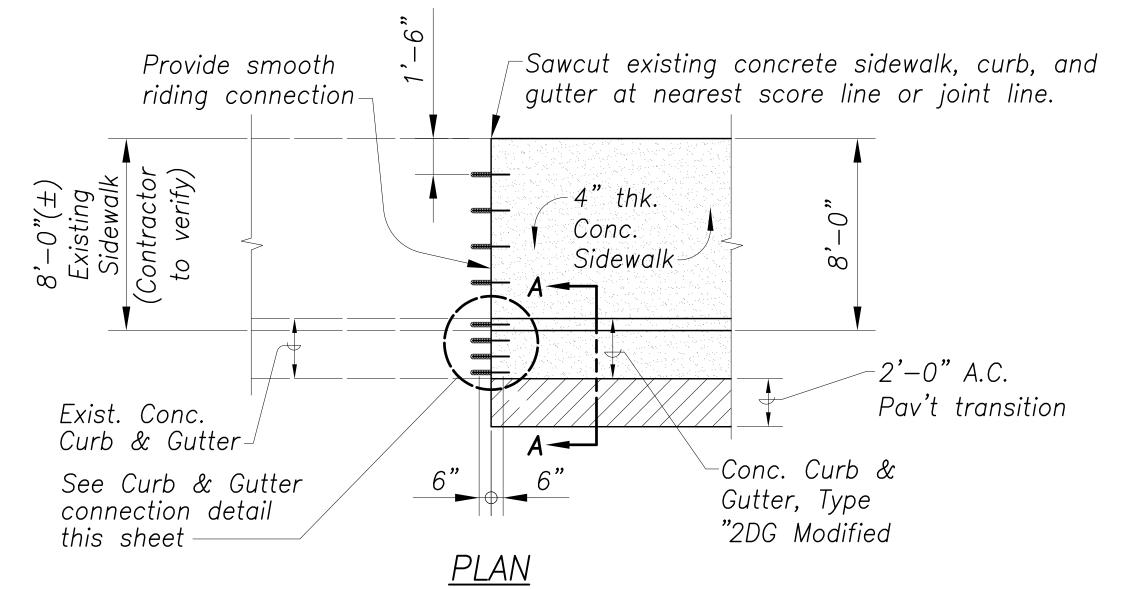
SHEET No. R—59 OF 81 SHEETS



80



SURVEY PLOTIE
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY



FED ROAD
DIST. NO.STATEFED AID
PROJ. NO.FISCAL
YEARSHEET
NO.TOTAL
SHEETSHAWAIIHAW.STP-0300(163)R202081291

GRAPHIC SCALES

SCALE 1"=1' 0

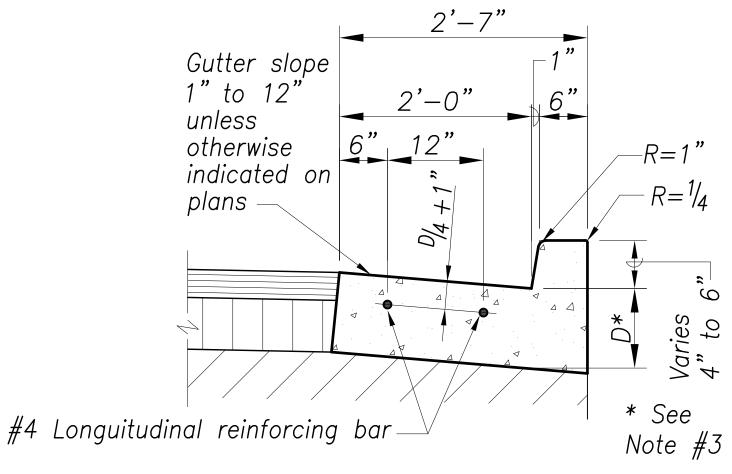
(STATE)

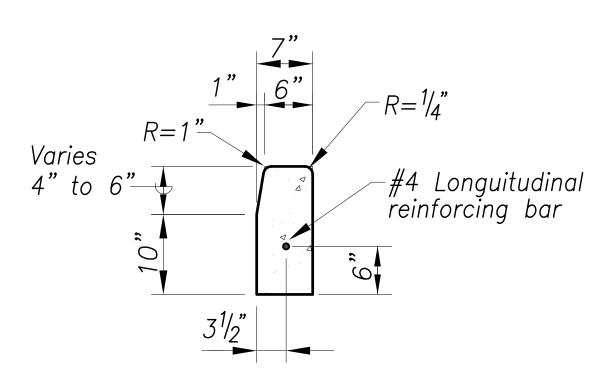
CONNECTION TO EXISTING SIDEWALK, CURB & GUTTER B

No Scale

No Scale

(STATE)





(FOR WORK WITHIN CITY AND STATE R/W)

CURB, TYPE 2D MODIFIED

Scale: 1"= 1'

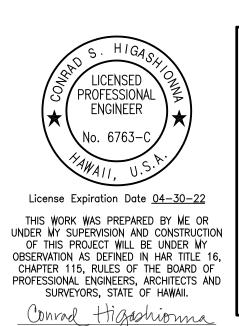
(FOR WORK WITHIN CITY AND STATE R/W)

CURB & GUTTER, TYPE 2DG MODIFIED

Scale: 1"= 1"

NOTES:

- 1. Cast-In-Place P.C.C. gutters shall be longitudinally broom finished.
- 2. The top of all types of concrete curbs, including driveway curbs, shall be longitudinally broom finished.
- 3. For asphalt concrete pavement areas with no underdrain, D* equals thickness of A.C. plus A.C. base but not less than 10".
- 4. Concrete shall be Class A.
- 5. For construction and contraction joint details, see DOT Standard Plan D-05.
- 6. Drilling holes and installing dowel reinforcing bars shall be incidental to the various contract items and will not be paid for separately.
- 7. Longitudinal reinforcing bars for Curb & Gutter, Type 2DG Modified, and Curb, Type 2D Modified, shall be incidental to the various contract items and will not be paid for separately.



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MISCELLANEOUS DETAILS

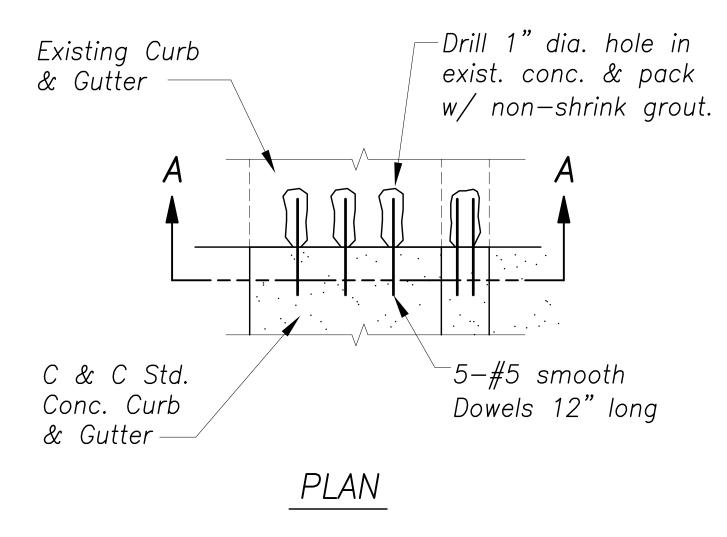
Traffic Signal Modernization, Oahu, Phase 1
Federal—Aid Project No. STP—0300(163)R

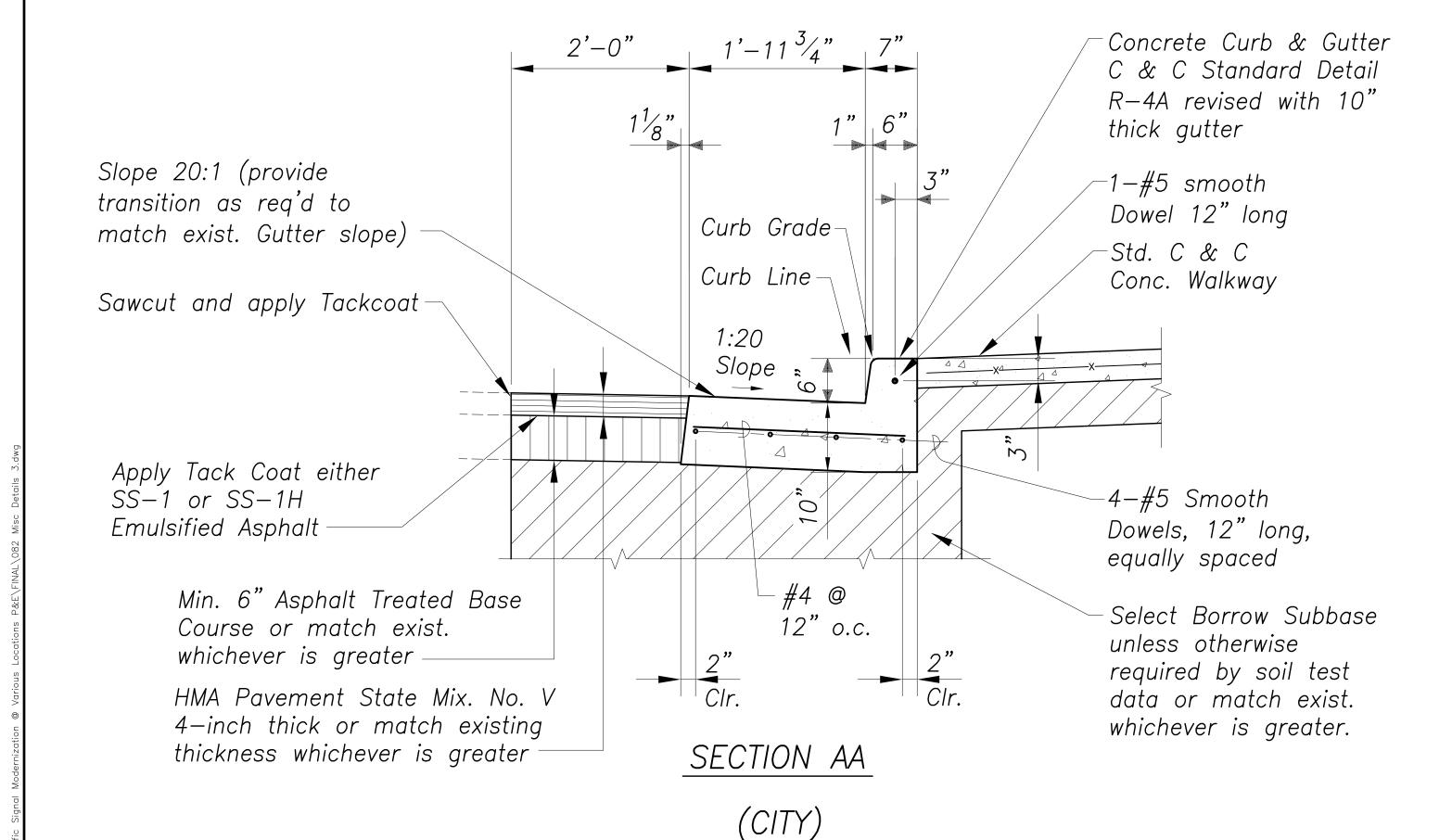
Scale: As noted Date: Oct. 2020

SHEET No. R—60 OF 81 SHEETS

<u>Notes:</u>

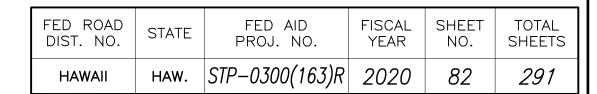
- 1. For new Sidewalk, Contractor shall construct Sidewalk joints per City & County of Honolulu Engineering and Policy Memorandum No. CEB-1-09 (dated April 6, 2009).
- 2. For connection to existing concrete curb only, use 2-#5 smooth dowel, 12" long.
- 3. Drilling holes and installing dowel reinforcing bars shall be incidental to the various contract items and will not be paid for separately.





CURB & GUTTER CONNECTION DETAILS

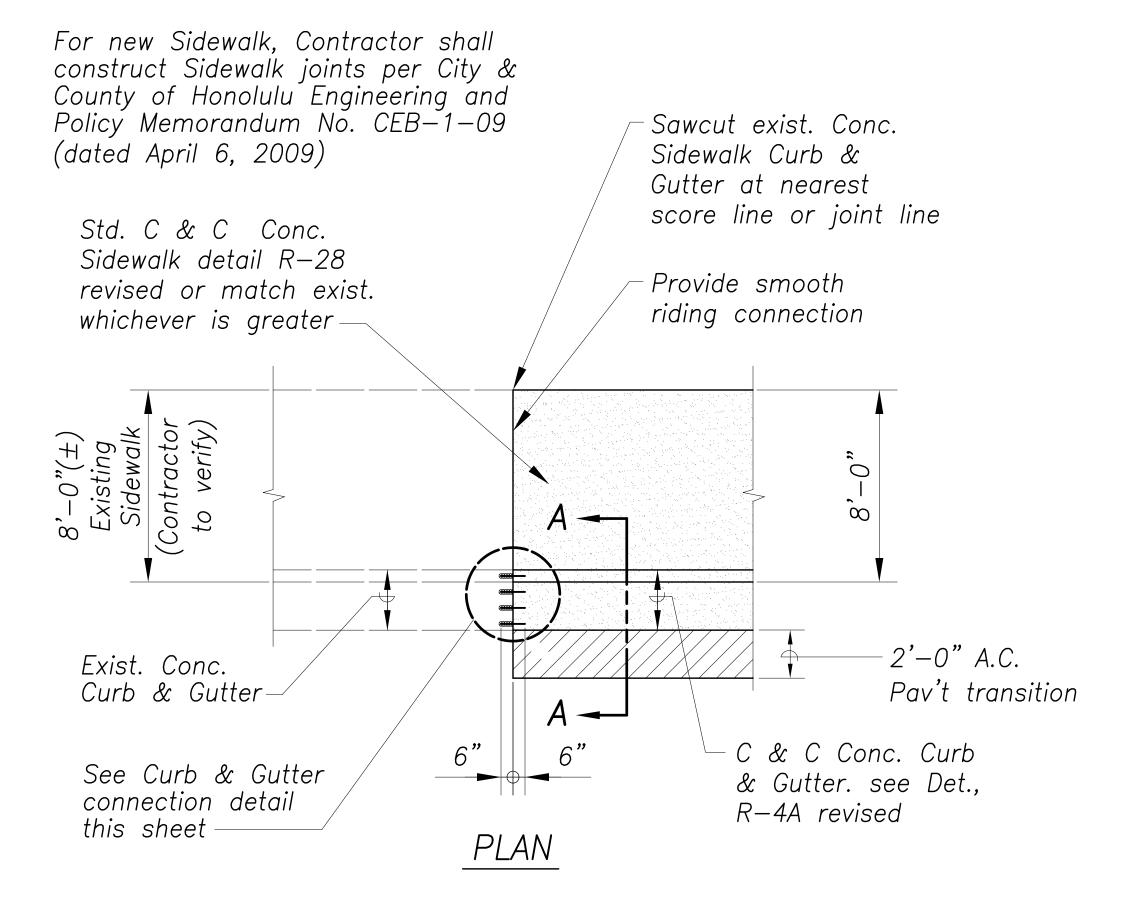
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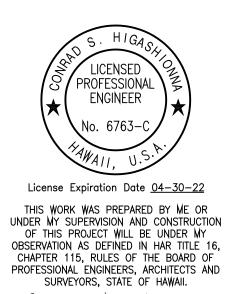
<u>Notes:</u>

Approved By:

Chief, Civil Engineering Branch, DPP



(CITY) CONNECTION TO EXISTING SIDEWALK, CURB & GUTTER No Scale



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MISCELLANEOUS DETAILS

Traffic Signal Modernization, Oahu, Phase Federal-Aid Project No. STP-0300(163)R Scale: **As noted** Date: Oct. 2020 SHEET No. R-61 OF 81 SHEETS