

### SHALLOW DRYWELL NOTES 1. Concrete-28 day compressive concrete strength = 4000 psi minimum. 2. Contractor shall preserve existing geological formation at proposed drywell locations to ensure proper drywell operation. 3. Precast concrete drywell rungs and #2 crushed rock may be omitted in solid rock areas. LA 4. Wells may be drilled, only water soluble drilling lubricants will be allowed, no clay or other drilling lubricants, which have the potential to reduce permeability will be permitted. 5. After drilling of the drywell is completed, the sidewalls shall 4'x3' Mod. 1211214P or 61614P/ be washed along the entire depth and the bottom of the Steel Frame and Grates drywell cleaned out to allow positive permeability. See Mod. Frame Section This Sht. and Note 6-6. Refer to HDOT Standard Plans H-12, H-15, and H-16 for other

\*Rt Slope

12:1

5%

12:1

5%

frame and grate details.

Inlet ID

SDW #1

SDW #2

SDW #3

SDW #4

Drywell

Top Ring -

JOINT CUSHION DETAIL

7. All rebars to be placed 2" clear min. on all sides/surfaces.

INLET GRATE SCHEDULE

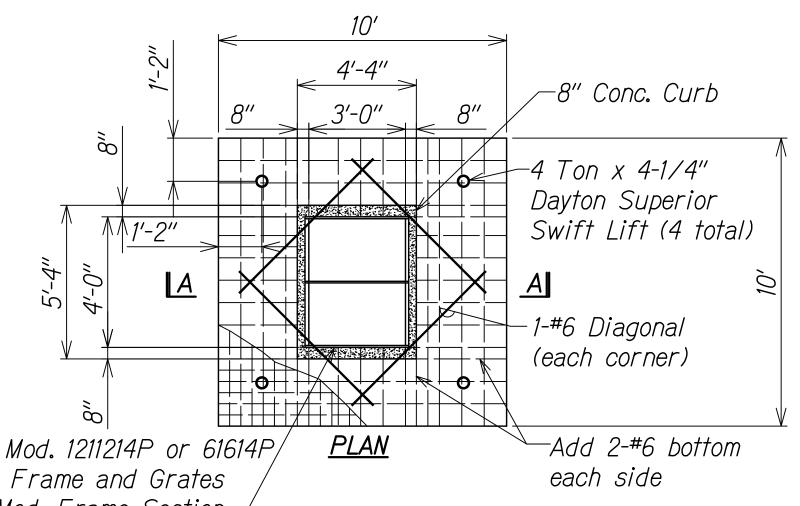
\*Lt Slope

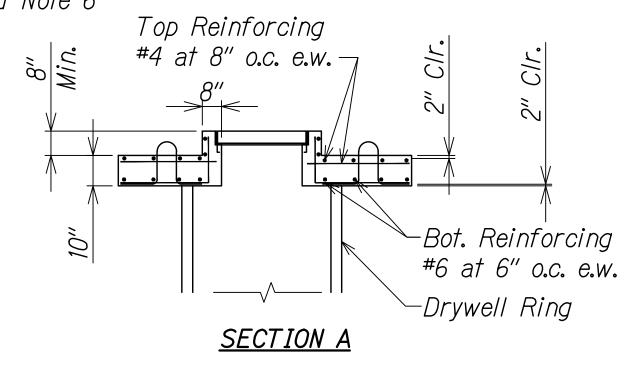
5%

2%

6**:**1

2%

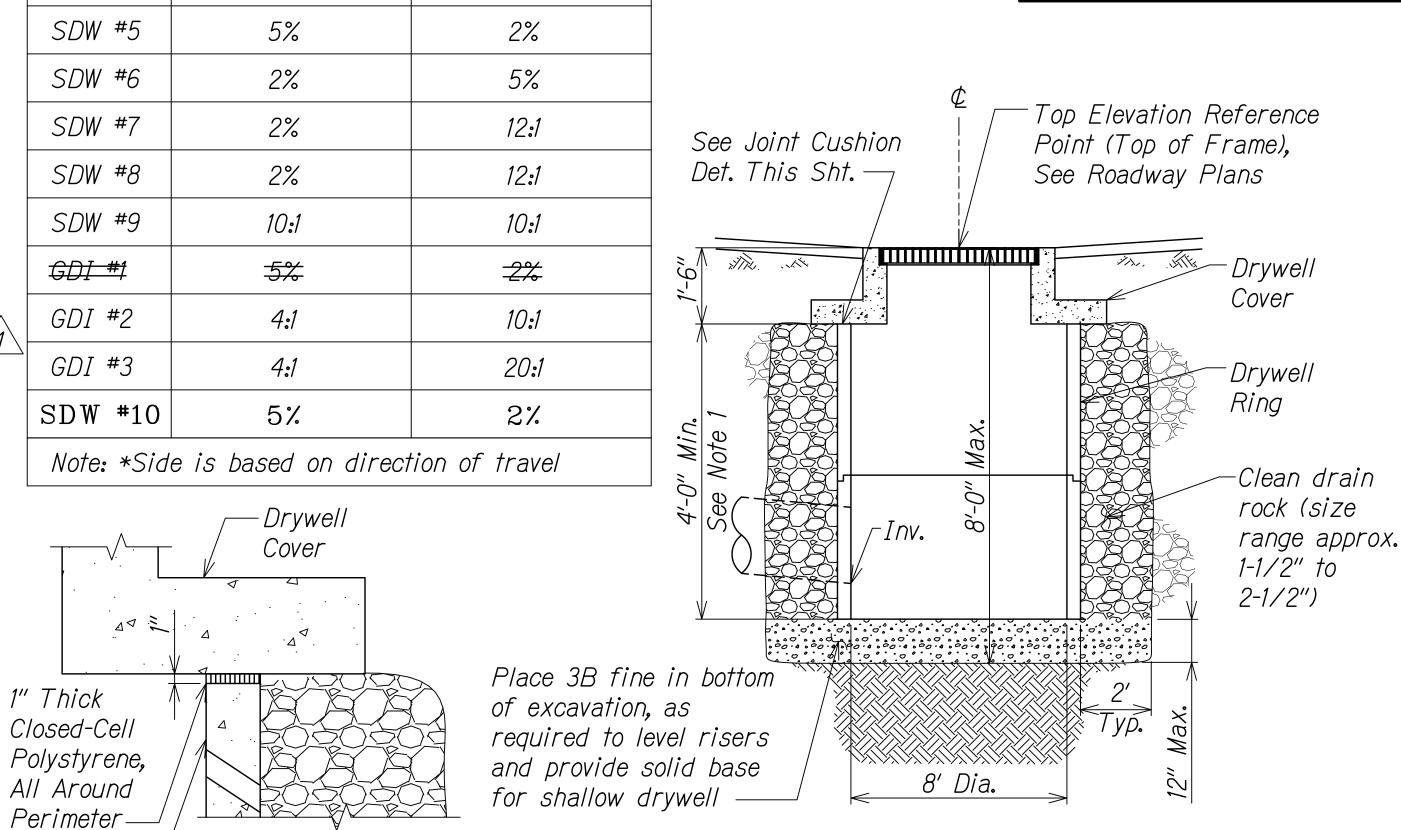


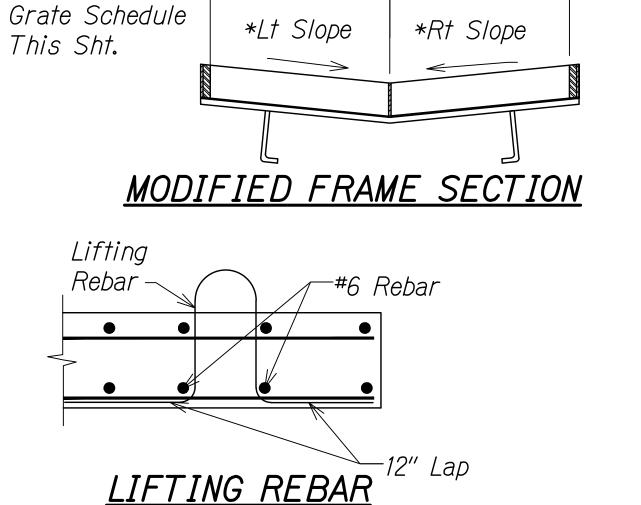


# DRYWELL COVER DETAIL

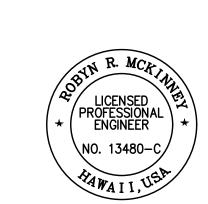
SHALLOW DRYWELL DETAIL

Scale: NTS





\*See Inlet



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Robert Uckinney 04/30/20

EXPIRATION DATE OF THE LICENSE

<u> 1</u> Grate Schedule € DATE STATE OF HAWAII HIGHWAYS DIVISION KEAAU-PAHOA ROAD INTERSECTION IMPROVEMENTS

SHEET No. 2 OF 2 SHEETS

"AS-BUILT"

4 1/2"

#### 4 1/2" 2 3/4" 2 1/4" 4' RING SECTION <u>UPPER</u> LAP JOINT DETAIL Lap Joint-Outer Wall -Rebar -Inner Wall -#3 Rebar Horizontal (typ. of 5) 4-1/2" 2' RING SECTION 3/4" JOINT DETAIL **ELEVATION** 2 1/4" *⊢*7 1/2" X 3" Outside 4 1/2" drainage openings pitching LOWER LAP JOINT DETAIL downward @ 45°< (Typ.) -2-#4 Bar Vertical (typ. of 16) (Spaced between holes) See Joint Detail · Diameter\ this sheet -Rebar Lap Weld - 20° Class "A" -Weep Hole, Tapered Conc.— (Typ. of 16 per row) #3 Bar Horizontal — <u>SECTION - B</u> <u>SECTION - A</u> DRYWELL RING DETAIL LEGEND FOR AS-BUILT POSTINGS

FED. ROAD STATE

-Lap Joint

HAWAII HAW. STP-0130(27)

FED.-AID PROJ. NO.

-#3 Rebar Horizontal (typ. of 9)

-#4 Rebar Vertical (typ. of 32)

√Weep Holes 3" X 7" (typ.)

FISCAL SHEET TOTAL YEAR NO. SHEETS

2020 | ADD.18 | 50

NO. SHEETS

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Double line for 100.00 as-built deletion

Text for as-built Roadway posting

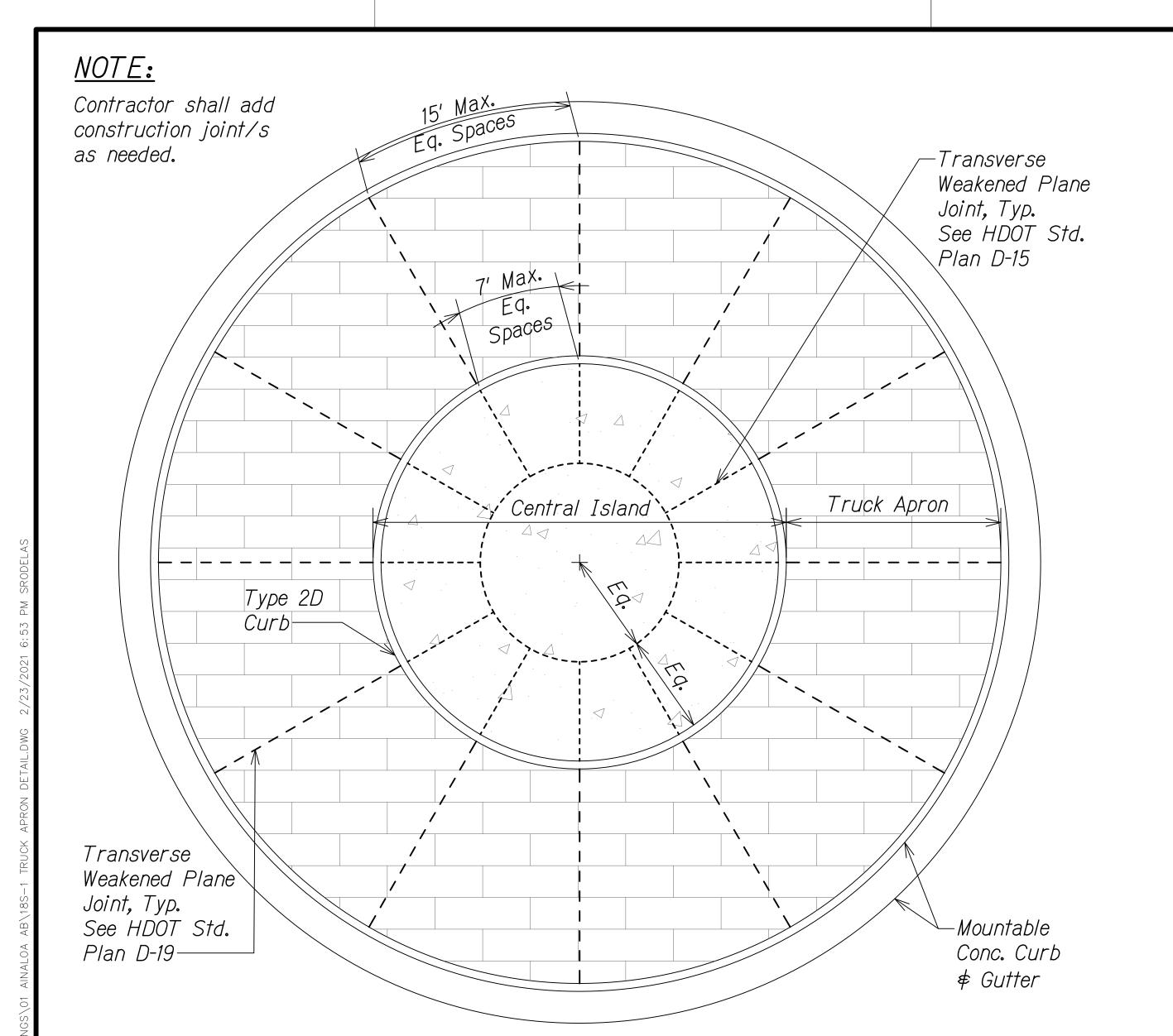
Added GDI#2, and #3 on Inlet REVISION

DEPARTMENT OF TRANSPORTATION

CIVIL DETAILS

at Ainaloa Boulevard Federal-Aid Project No. STP-0130(27) Date: July, 2019

ADD.18

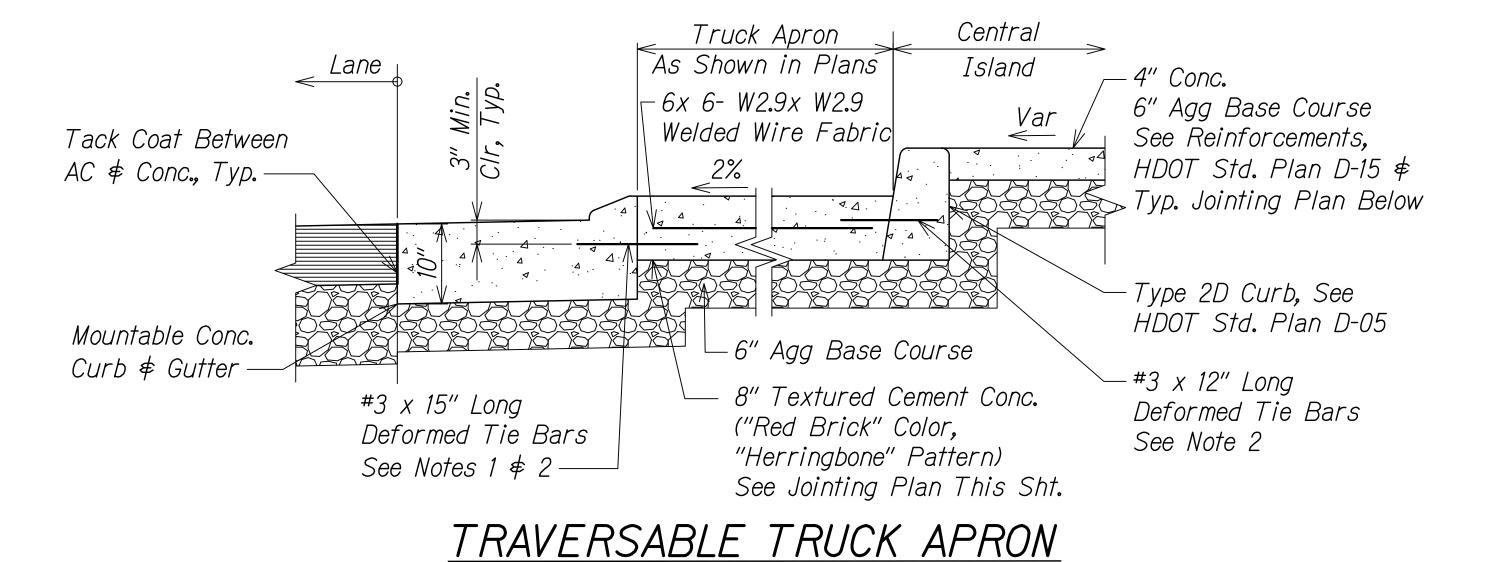




FED. ROAD DIST. NO. STATE FED.-AID PROJ. NO. FISCAL SHEET TOTAL YEAR NO. SHEETS C.O. 185-1 2020 HAWAII HAW. *STP-0130(27)* 

### **NOTES:**

- Gutters constructed monolithically with the pavement shall be delineated with a score line. Gutters constructed separately shall have a longitudinal keyed construction joint with the bars. Tie bars shall be provided where gutters are constructed monolithically.
- 2. Tie bars at curbs shall be 24" o.c. if constructed separately from concrete pavement. If constructed monolithically, tie bars shall be 30" o.c.



## LEGEND FOR AS-BUILT POSTINGS

Squiggly line for as-built deletion **√√√√** 

Double line for

Text for as-built Roadway posting

as-built deletion

Scale: NTS

\NO. 13480-C/ THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. EXPIRATION DATE
OF THE LICENSE

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION

# TRUCK APRON JOINTING AND REINFORCEMENT DETAIL

KEAAU-PAHOA ROAD
INTERSECTION IMPROVEMENTS at Ainaloa Boulevard

Federal-Aid Project No. STP-0130(27) Date: July, 2019 SHEET No. 2A OF 2 SHEETS

"AS-BUILT"

C.O. 18S-1