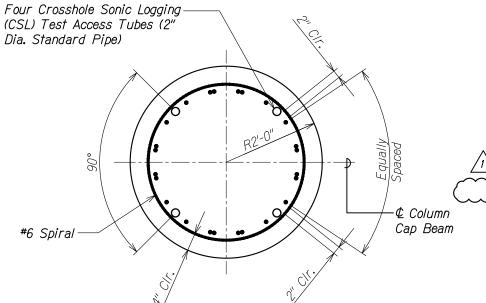


FED. ROAD DIST. NO. STATE FEDERAL AID PROJ. NO. FISCAL SHEET NO. SHEETS

HAWAII HAW. ER-22(002) 2019 ADD 41 94

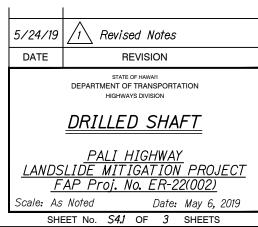


24-#10 Vert. Bars (2x8 Bundles 8 Single Bars)

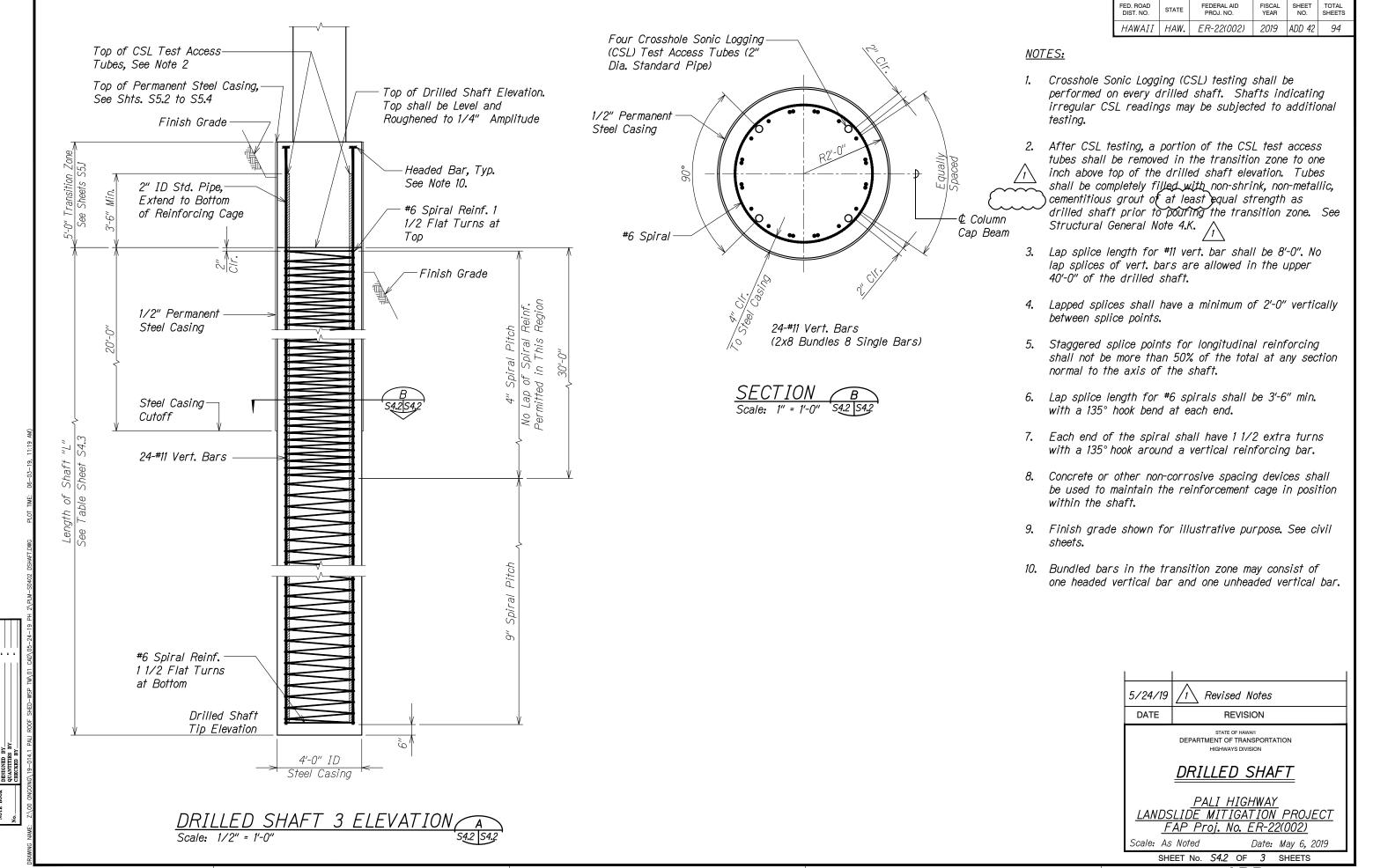
SECTION B Scale: 1" = 1'-0" \$4.1 \$4.1

NOTES:

- 1. Crosshole Sonic Logging (CSL) testing shall be performed on every drilled shaft. Shafts indicating irregular CSL readings may be subjected to additional testing.
 - After CSL testing, a portion of the CSL test access tubes shall be removed in the transition zone to one inch above top of the drilled shaft elevation. Tubes shall be completely filled with non-shrink, non-metallic, cementitious grout of at least equal strength as drilled shaft prior to pouring the transition zone. See Structural General Note 4.K.
- 3. Lap splice length for #10 vert. bar shall be 6'-6". No lap splices of vert. bars are allowed in the upper 40'-0" of the drilled shaft.
- 4. Lapped splices shall have a minimum of 2'-0" vertically between splice points.
- 5. Staggered splice points for longitudinal reinforcing shall not be more than 50% of the total at any section normal to the axis of the shaft.
- 6. Lap splice length for #6 spirals shall be 3'-6" min. with a 135° hook bend at each end.
- 7. Each end of the spiral shall have 1 1/2 extra turns with a 135° hook around a vertical reinforcing bar.
- 8. Concrete or other non-corrosive spacing devices shall be used to maintain the reinforcement cage in position within the shaft.
- 9. Bundled bars in the transition zone may consist of one headed vertical bar and one unheaded vertical bar.



ADD 41



ADD 42

FED. ROAD	STATE	FEDERAL AID	FISCAL	SHEET	TOTAL
DIST. NO.		PROJ. NO.	YEAR	NO.	SHEETS
HAWAII	HAW.	ER-22(002)	2019	43	94

DRILLED SHAFT SCHEDULE							
Drilled Shaft Mark	1	2	3				
Drilled Shaft Diameter	4'-0"	4'-0"	4'-0"				
Top of Shaft Elevation	982.60	979.00	975.00				
Estimated Drilled Shaft Tip Elevation	952.60	949.00	935.00				
Estimated Length of Shaft (L)	30'-0"	30'-0"	40'-0"				
Strength Limit State Compression Demand (kips)	1451	1522	500				
Strength Limit State Compression Capacity (kips)	1540	1540	660				
Extreme Event Limit State Compression Demand (kips)	1928	1988	1150				
Extreme Event Limit State Compression Capacity (kips)	2800	2800	1200				
Non-Redundant Single Shaft Compression Capacity (kips)	3500	3500	1500				

Notes:

- 1. For 4'-0" dia. drilled shafts details see Shts. S4.1 and
- 2. For Foundation Plan see Sht. S1.4.
- 3. All excavation and drilling operations for foundations shall be monitored by Geolabs, Inc.
- 4. Drilling of adjacent shafts within three drilled shaft diameters shall not commence until the shaft concrete has cured a minimum of 24 hours.
- 5. Drilled shaft tip elevations are estimated. The actual length of the shaft and drilled shaft tip elevations will be determined by Geolabs, Inc.
- 6. Drilled shaft tip elevations shall be verified by Geolabs, Inc. prior to placing reinforcement and concrete. Concrete shall be placed within 24 hours after drilling, but shall not be placed without prior approval of Geolabs, Inc.

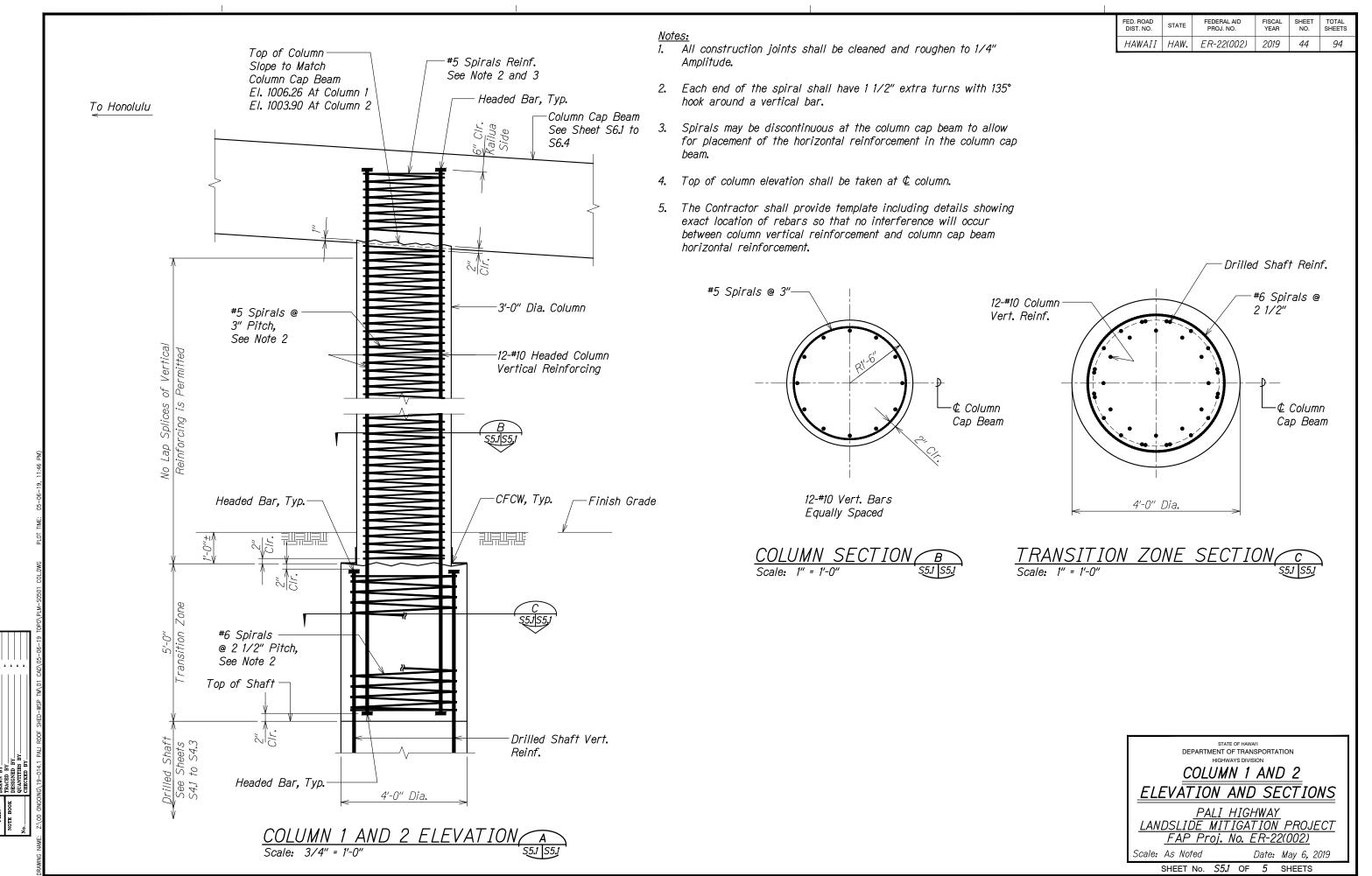
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION

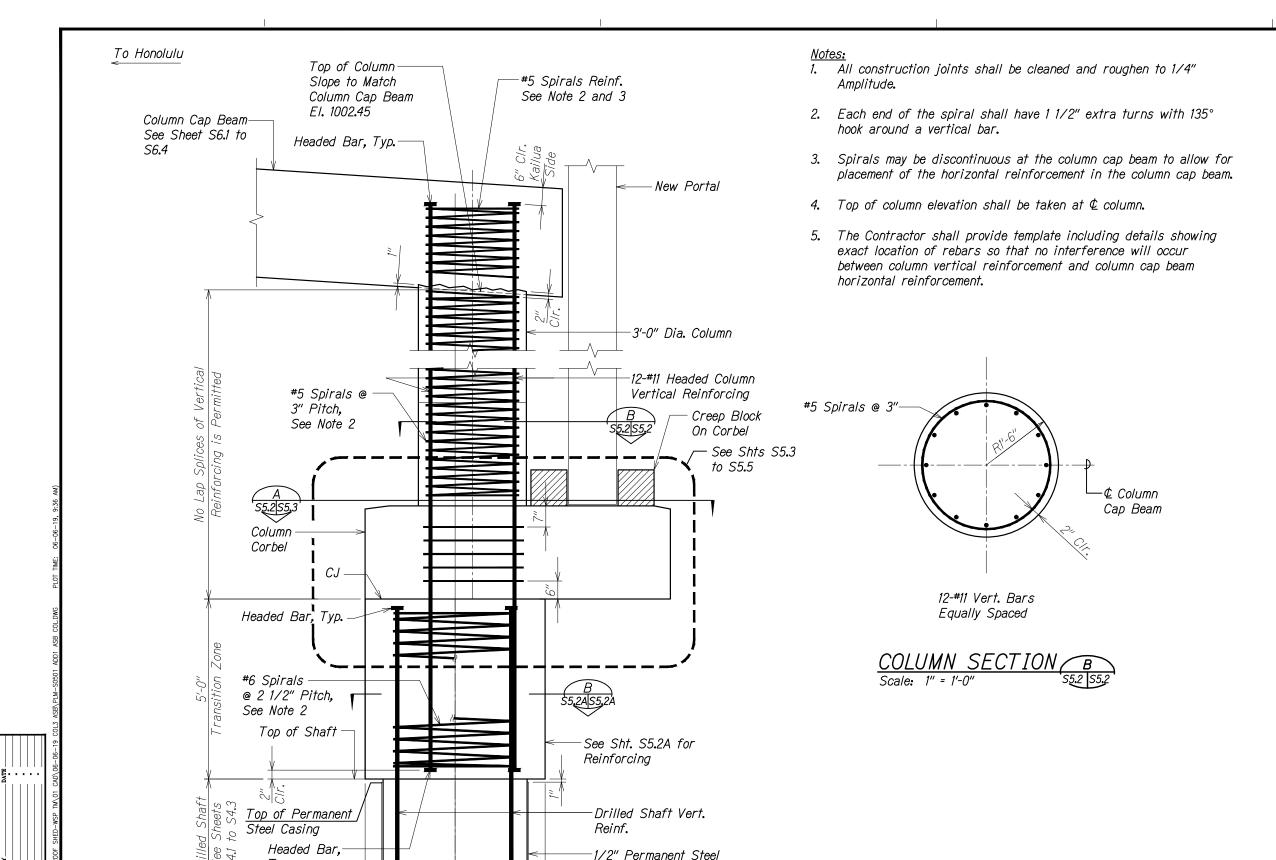
DRILLED SHAFT SCHEDULE

PALI HIGHWAY
LANDSLIDE MITIGATION PROJECT
FAP Proj. No. ER-22(002) Date: May 6, 2019

Scale: None

SHEET No. S4.3 OF 3 SHEETS





Casing

Тур.

2'-6"

2'-6"

COLUMN 3 ELEVATION A

FISCAL YEAR

STATE

ER-22(002)

HAWAII HAW.

SHEET NO.

2019 | ADD 45 | 94

