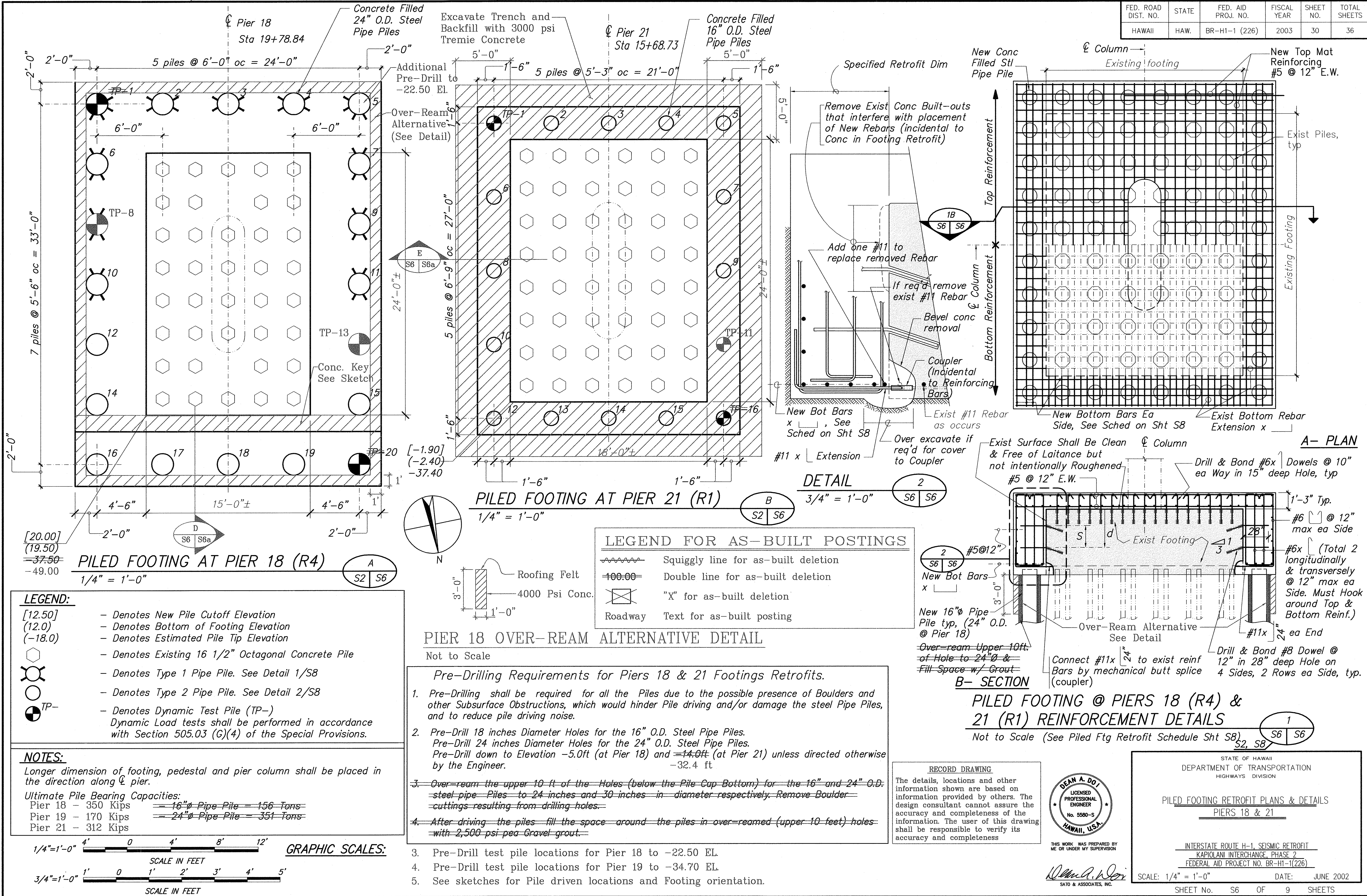
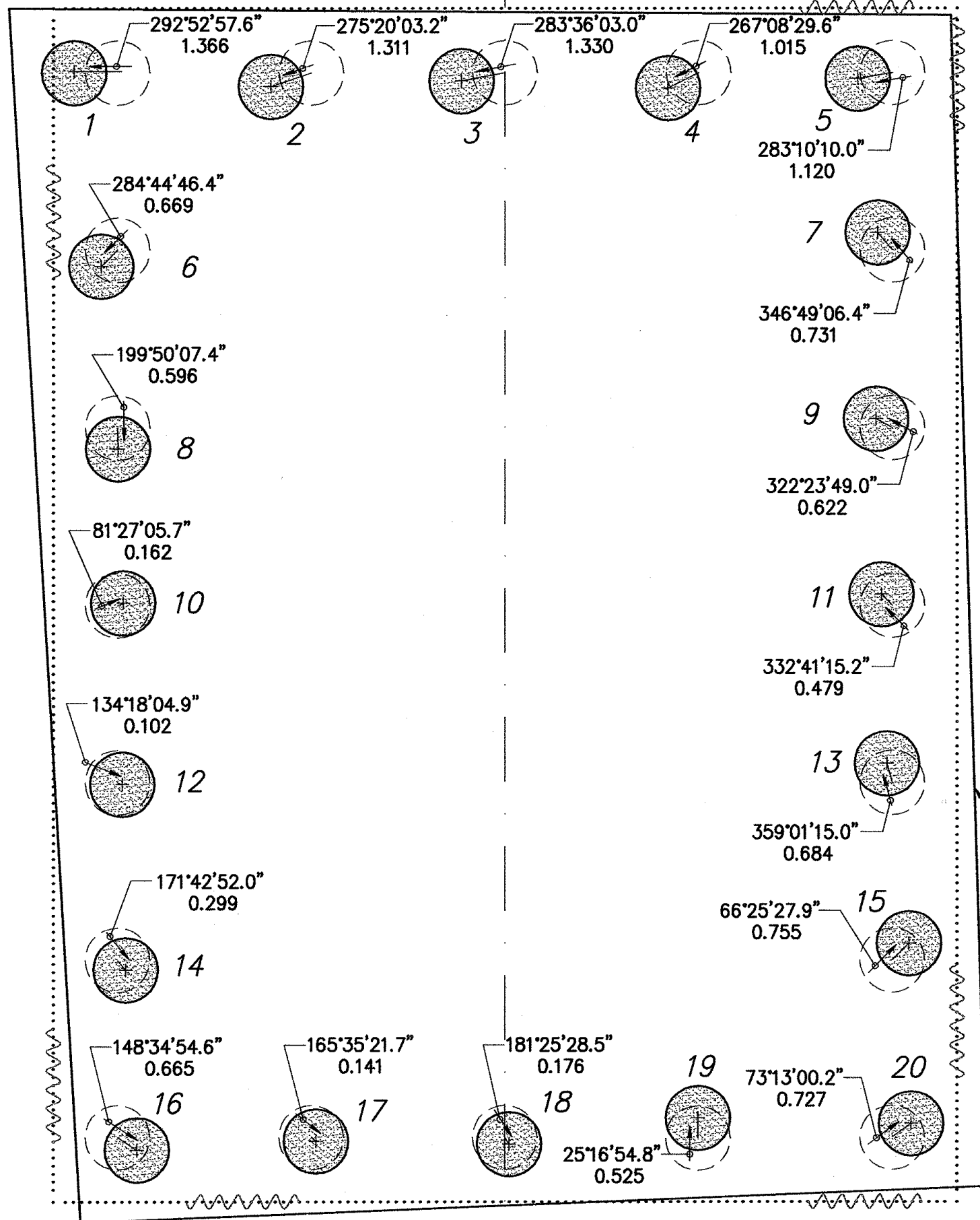


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-H1-1 (226)	2003	30	36



"AS-BUILT"

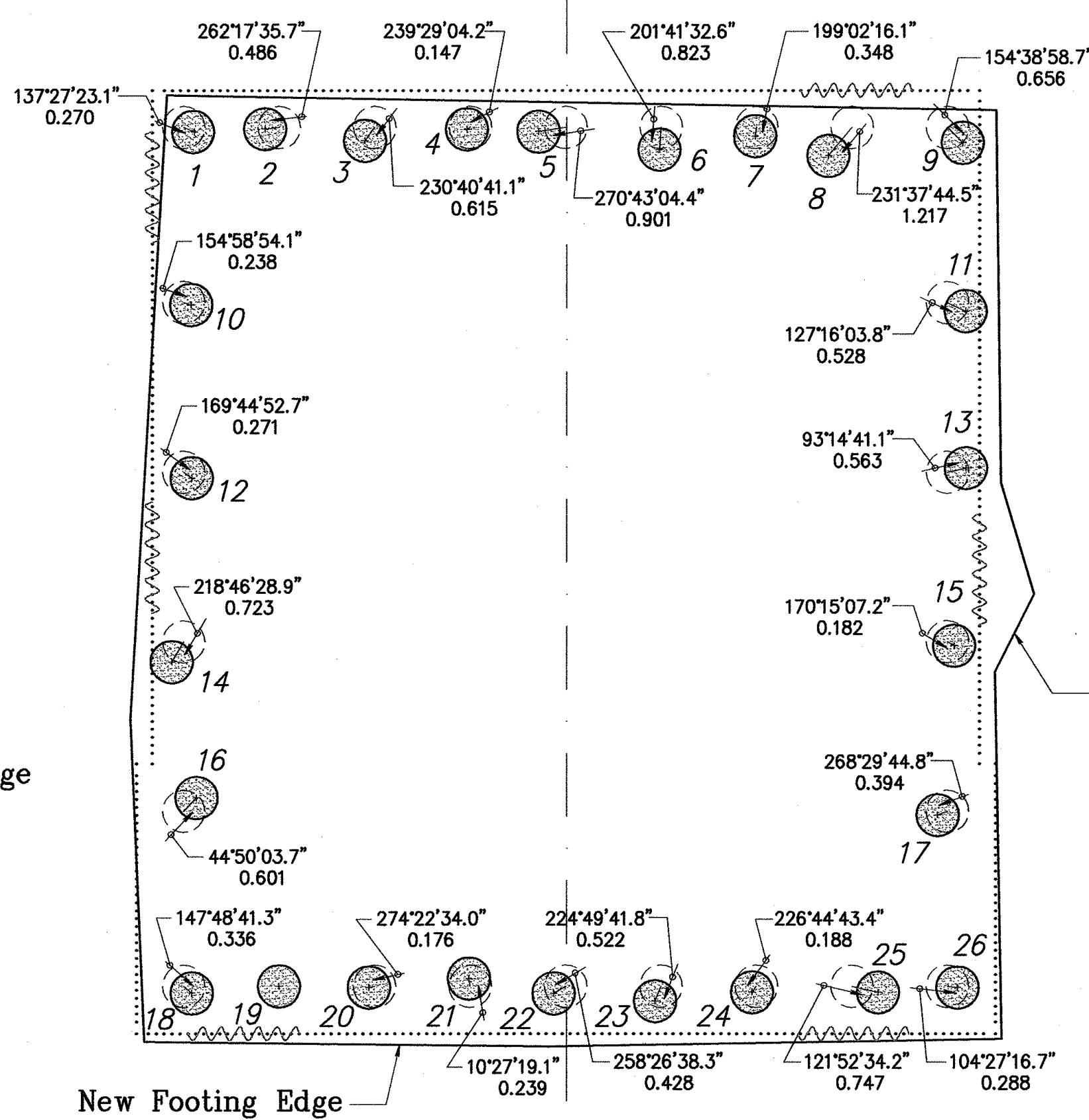
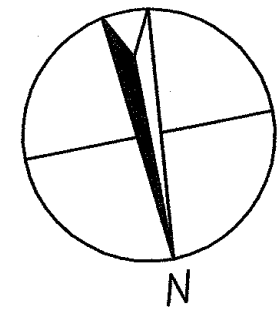
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-H1-1 (226)	2003	30 S-1	36



PILED FOOTING AT PIER 18 (R4)

1/4" = 1'-0"

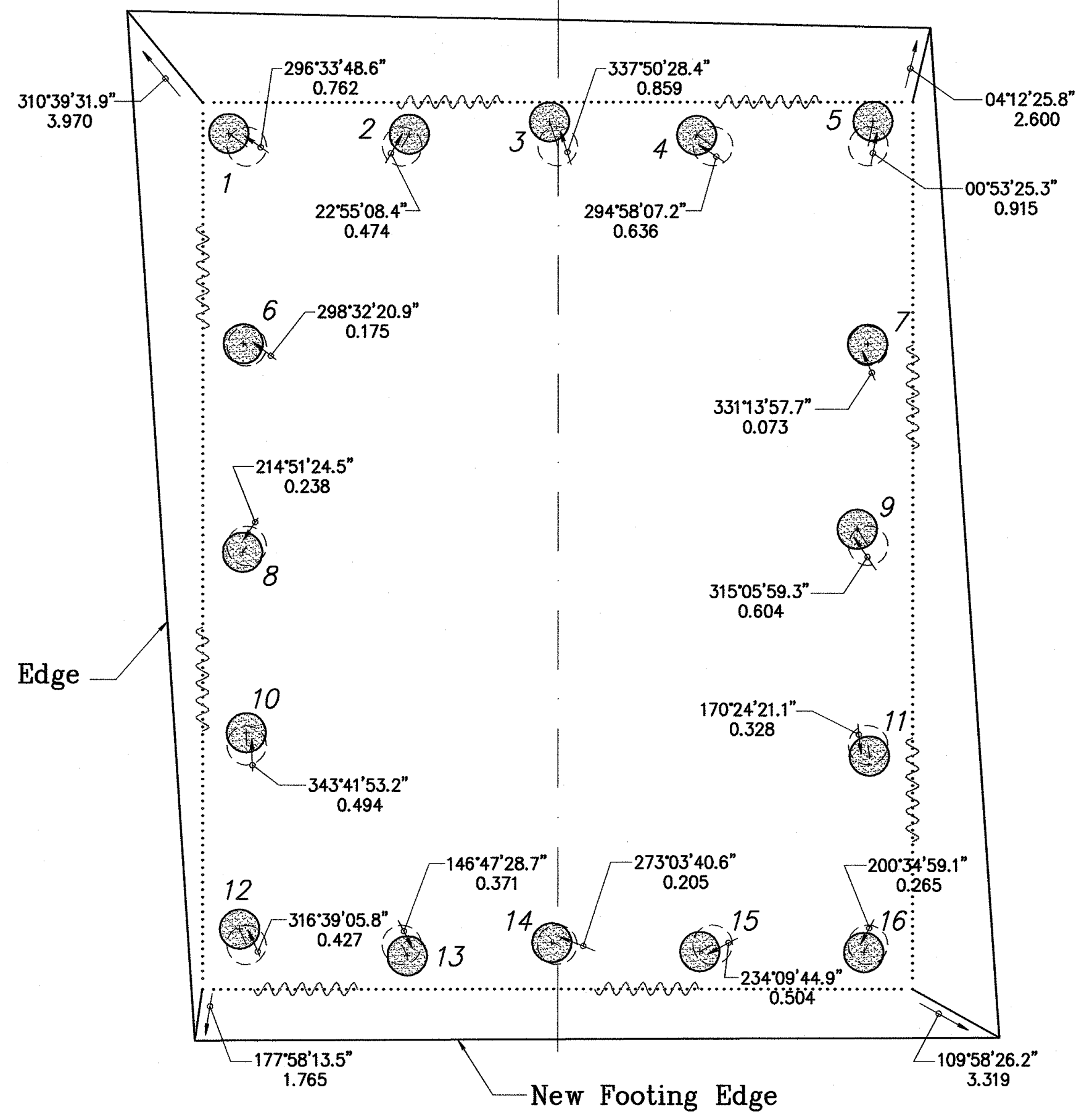
A
S6 S2 S6a



PILED FOOTING AT PIER 19 (R3)

1/4" = 1'-0"

B
S6 S2 S6a

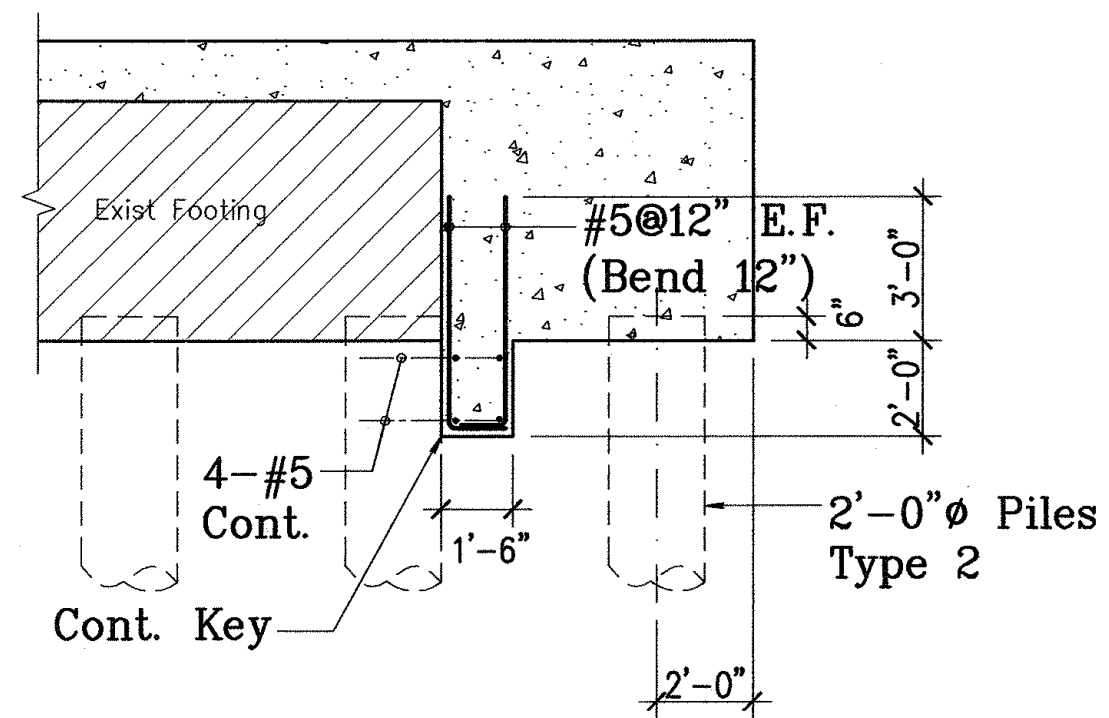


PILED FOOTING AT PIER 21 (R1)

1/4" = 1'-0"

C
S6 S2 S6a

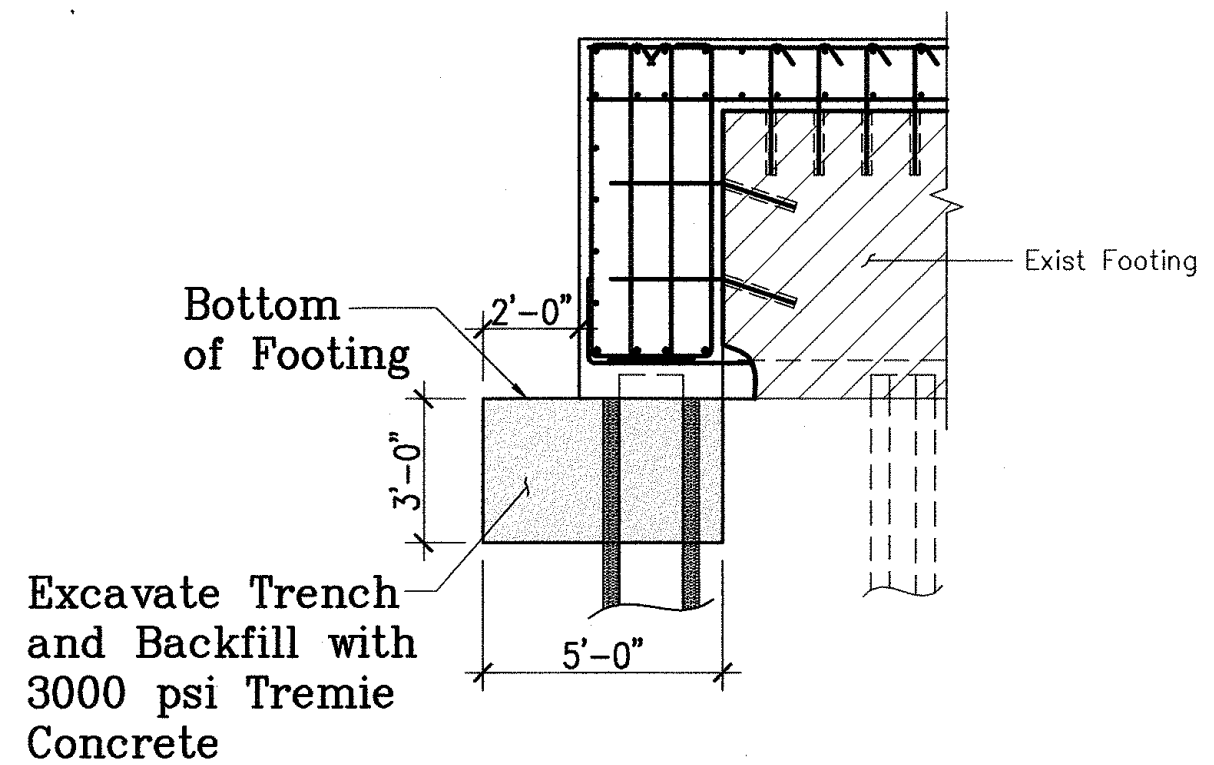
- LEGEND:**
- - Driven Pile Location
 - - Design Pile Location



SECTION @ PIER 18 (R4)

1/4" = 1'-0"

D
S6 S2 S6a



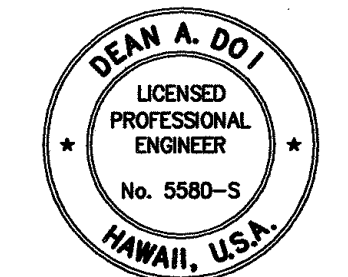
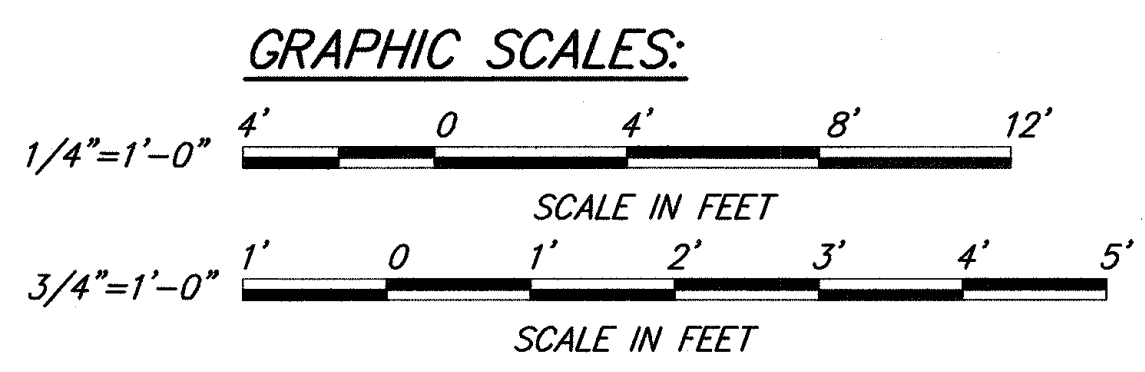
SECTION @ PIER 21 (R1)

1/4" = 1'-0"

E
S6 S2 S6a

RECORD DRAWING
The details, locations and other information shown are based on information provided by others. The design consultant cannot assure the accuracy and completeness of the information. The user of this drawing shall be responsible to verify its accuracy and completeness.

- LEGEND FOR AS-BUILT POSTINGS**
- ~~~~~ Squiggly line for as-built deletion
 - == Double line for as-built deletion
 - X "X" for as-built deletion
 - Roadway Text for as-built posting



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
DATE: JUNE 2002
SATO & ASSOCIATES, INC.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PILED FOOTING RETROFIT AS-BUILT DETAIL PLANS
PIERS 18, 19 & 21

INTERSTATE ROUTE H-1, SEISMIC RETROFIT
KAPOLANI INTERCHANGE, PHASE 2
FEDERAL AID PROJECT NO. BR-H1-1(226)

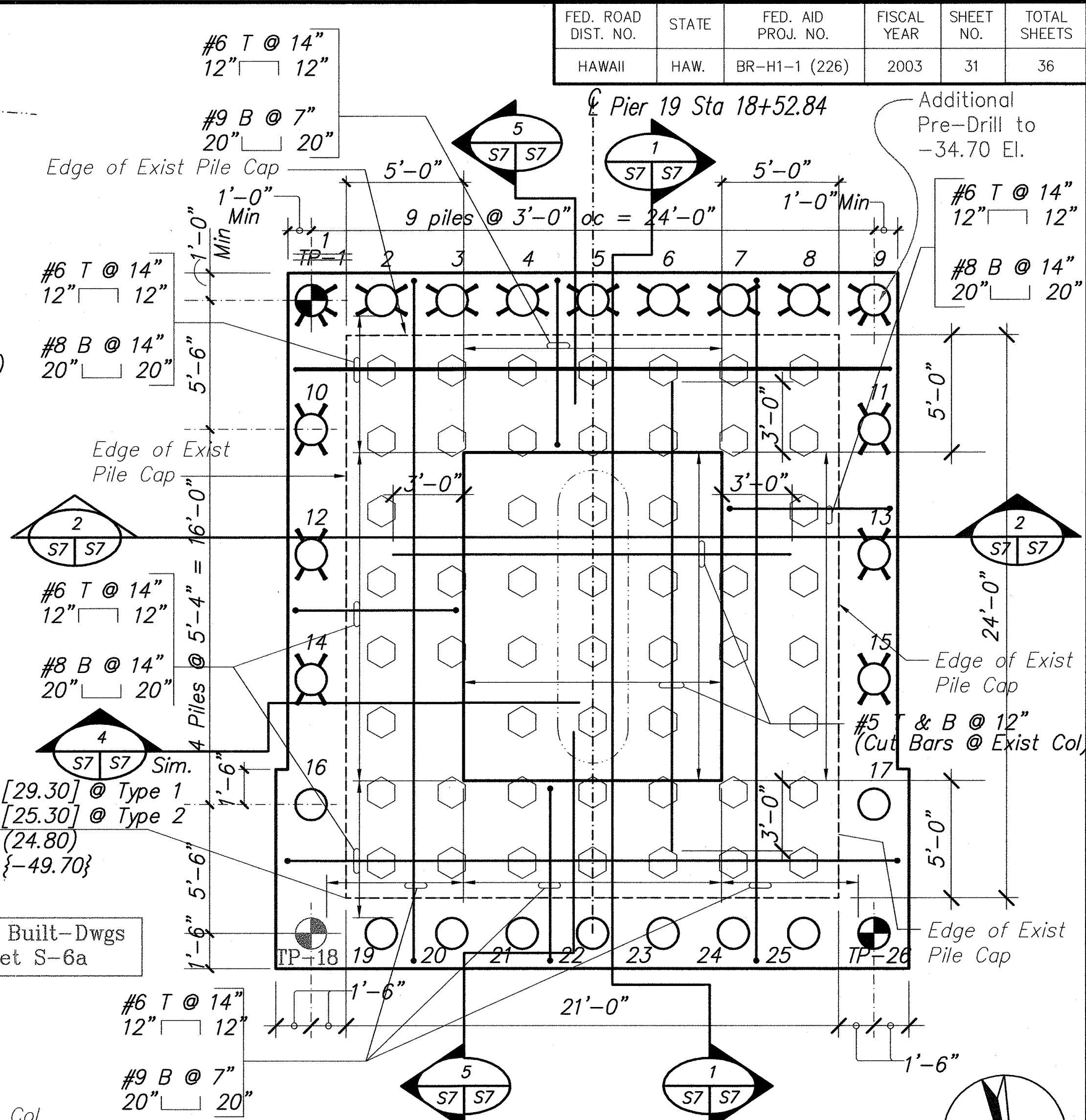
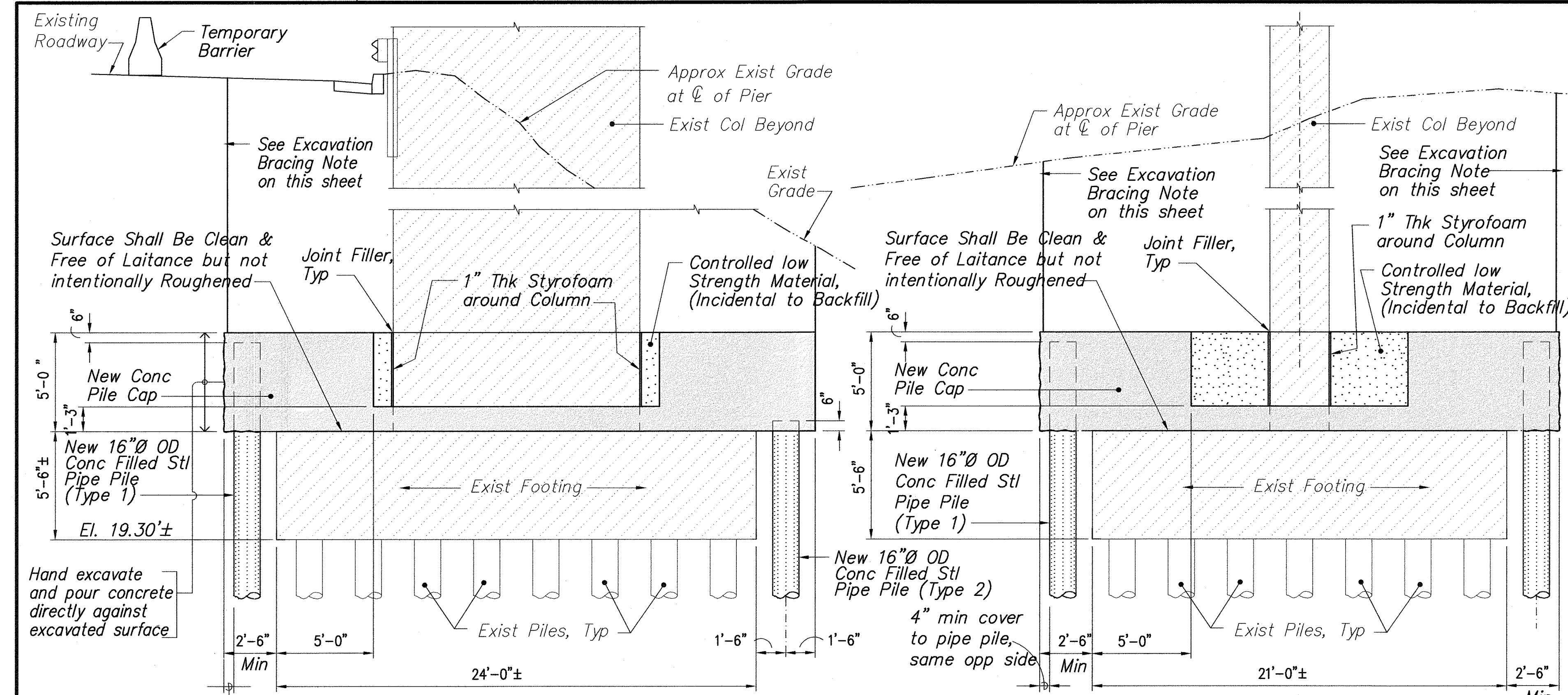
SCALE: 1/4" = 1'-0" DATE: JUNE 2002

SHEET No. S6a OF 9 SHEETS

"AS-BUILT"

ADD.30 S-1

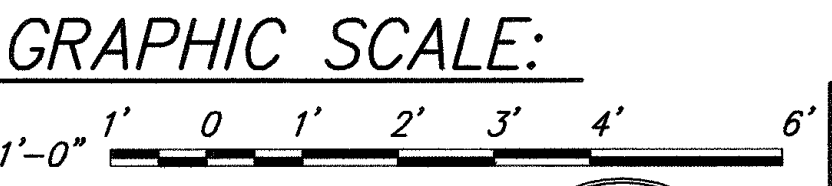
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-H1-1 (226)	2003	31	36



EXCAVATION BRACING NOTE:
Provide Temporary Bracing Prior to Beginning Excavation Work. See Sht S1 for suggested bracing method. Do Not Remove Bracing Until Completion of Backfill. Contractor to Submit Bracing System Design to the Engineer for Approval Before Installation. (Bracing shall be incidental to Structure Excavation)

PILED FOOTING AT PIER 19 (R3)
1/4" = 1'-0"
Refer to Sht S6 for Legend & other Notes:

- PRE-DRILLING REQUIREMENTS AT PIER 19 FOOTING RETROFIT**
- Pre-drilling shall be required for all the 16" O.D. steel pipe piles to facilitate pile driving through an existing boulder layer the top of which is located approximately at El + 9 MSL.
 - Pre-drill 18 inch diameter holes for the 16" O.D. steel pipe piles down to Elev -5.0 ft. unless directed otherwise by the Engineer. Over-ream the upper 15'-6" of each hole (below the retrofitted pile cap bottom) to 24 inches in diameter. Remove boulder cuttings resulting from drilling holes.
 - Insert temporary steel casing to protect hole from caving. (Casing shall be incidental to piling).
 - After driving piles, fill the space around each pile in the upper 15'-6" with 2,500 psi pea gravel grout. Remove casing during or immediately after grouting.



LEGEND FOR AS-BUILT POSTINGS

- Squiggly line for as-built deletion
- Double line for as-built deletion
- "X" for as-built deletion
- Roadway Text for as-built posting

RECORD DRAWING
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DEAN A. DOI
LICENSED PROFESSIONAL ENGINEER
No. 5580-S
HAWAII, U.S.A.
SAID & ASSOCIATES, INC.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PILED FOOTING RETROFIT PLAN & DETAILS

PIER 19

INTERSTATE ROUTE H-1, SEISMIC RETROFIT
KAPOLANI INTERCHANGE, PHASE 2
FEDERAL AID PROJECT NO. BR-H1-1(226)

SCALE: AS NOTED DATE: SEPT 2002
SHEET No. S7 OF 9 SHEETS

"AS-BUILT"