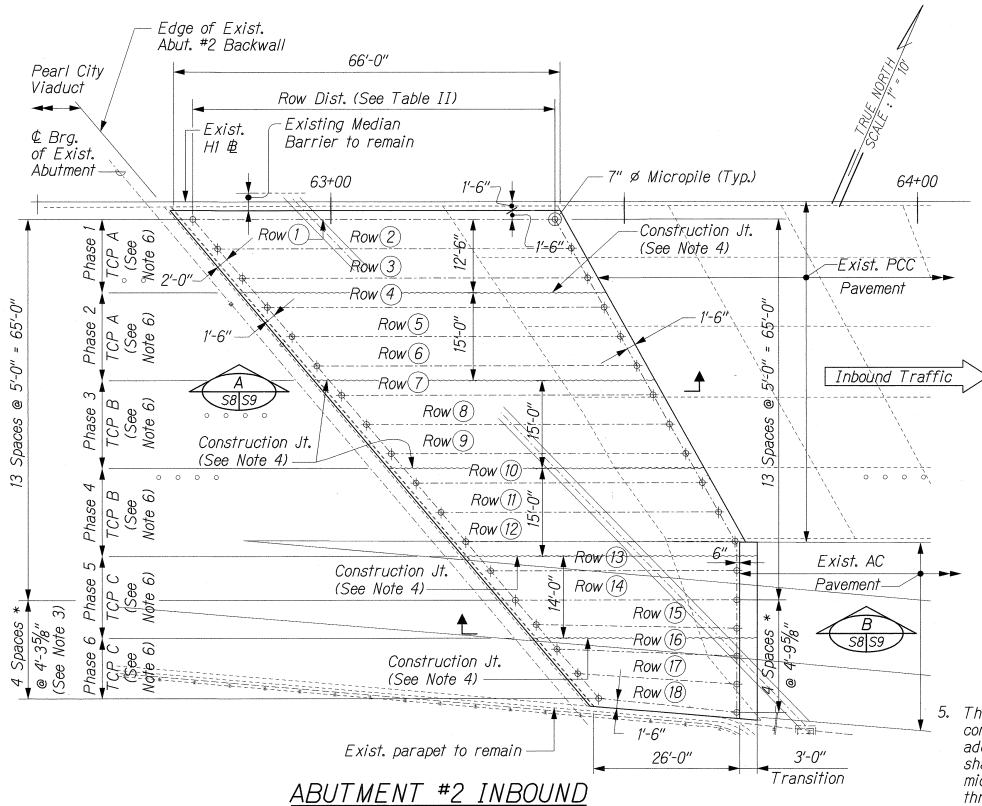
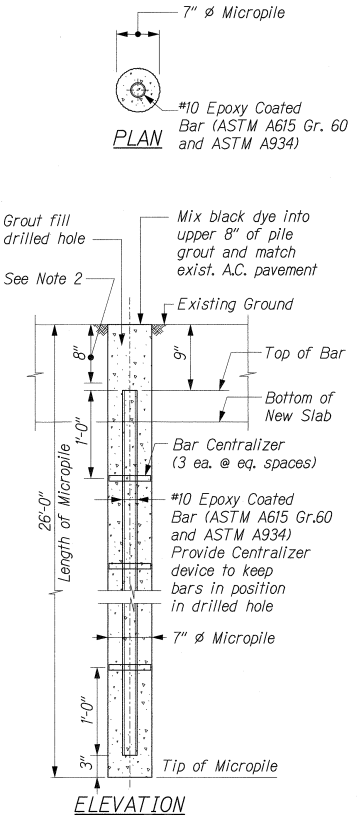
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(245)	2005	113	183



ABUTMENT #2 INBOUND APPROACH SLAB RETROFIT FOUNDATION PLAN

Scale: 1"=10'-0"

TABLE II - MICROPILE SCHEDULE			
ROW #	TOTAL NO. OF PILES	PILE SPACING	ROW DIST.
(1)	14 Piles	@ 4'-9⅛"±	61'-10¾"
(2)	14 Piles	@ 4'-8"±	60'-7½"
(3)	13 Piles	@ 4'-11⅜"±	59'-4⅛"
(4)	13 Piles	@ 4'-10⅛"±	58'-0⅞"
(5)	13 Piles	@ 4'-8¾"±	56'-9½"
(6)	12 Piles	@ 5'-0⅝"±	55'-6¼"
(7)	12 Piles	@ 4'-11⅛"±	54'-2⅞"
(8)	12 Piles	@ 4'-9¾"±	52'-11⅝"
(9)	12 Piles	@ 4'-8⅜"±	51'-8¼"
(10)	11 Piles	@ 5'-0½"±	50'-5⅛"
(11)	11 Piles	@ 4'-10⅞"±	49'-1⅝"
(12)	11 Piles	@ 4'-9⅜"±	47'-10¼"
(13)	10 Piles	@ 4'-10⅛"±	43'-7¼"
(14)	9 Piles	@ 4'-11"	39'-4⅛"
(15)	8 Piles	@ 5'-1⅛"	35'-8¼"
(16)	8 Piles	@ 4'-6⅞"	32'-0⅜"
(17)	7 Piles	@ 4'-8¾"	28'-4⅜"
(18)	6 Piles	@ 4'-11⅜"	24'-8⅝"



MICROPILE DETAIL

Scale: 1½"=1'-0"

NOTES:

1. Drill holes for micropiles from existing ground, install Bars with centralizer, and fill grout up to top of existing ground. See Note 1 on Sht. S1.
2. Remove the existing approach slab and upper 8" grout fill of micropile. Clean the upper portion of micropile to be embeded in slab prior to slab installation. The removal of the existing approach slab and upper 8" grout fill of micropiles shall be incidental to structural excavation and will not be paid separately. Do not damage the #10 epoxy coated rebar. Repair any damage to the epoxy coating and rebar.

*3. Verify dimensions in field and adjust spacings accordingly.

4. Approach slab retrofit shall be constructed in 6 phases as shown. Each Phase shall include the existing slab removal stated in Note 2 this sheet, provisions of threaded couplers stated in Note 2 of Sheet S9, and the slab retrofit as shown. For traffic control and construction lane closure time limitation for each phase, see traffic control plans and Special Provisions Section 645. Maturity meters shall be installed to monitor concrete temperature. The results from maturity meter may be used by the Engineer to determine concrete strength. The Contractor shall provide data and temperature/strength relationship charts and submit temperature/strength relationship charts for review and acceptance.
5. The Contractor may introduce an additional construction joint in each phase. The additional construction joint introduced, if any, shall be located mid-way between micropiles and shall include provisions of threaded couplers in accordance with Note 2 of Sheet S9. The Contractor shall submit details of the proposed additional construction joint to the Engineer for review and acceptance prior to commencement of approach slab retrofit. The additional construction joint introduced by the Contractor shall be at no additional cost to the State.
6. TCP indicates work to be completed in specified traffic control phase. See Traffic Control Plans.
7. For spot elevations of approach slab, see Sheet C17. When the finish grade of the new approach slab is higher than existing pavement at construction joint of each phase, the Contractor shall pave a temporary 2 feet wide A.C. transition ramp over the existing A.C. pavement to provide a smooth riding surface. When the finish grade of the new approach slab is lower than existing pavement at construction joint of each phase, the Contractor shall grind a temporary 2 feet wide transition ramp on the existing A.C. pavement to provide a smooth riding surface.

ORIGINAL PLAN | STANDARD PLOTTED BY | DATE
STANDARD DRAWN BY | DATE
STANDARD TRACED BY | DATE
NOTE BOOK | QUANTITIES BY | DATE
No. | REVISIONS | CHECKED BY | DATE

I:\CDE H1 RETRO\STRUCT\ST-DET.dgn

HUI PANG CHEN LICENSED PROFESSIONAL ENGINEER No. 3865-S HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Hui Pang Chen

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PEARL CITY VIADUCT APPROACH SLAB RETROFIT

INTERSTATE ROUTE H-1 REHABILITATION
EASTBOUND LANES
WAIAU INTERCHANGE TO KAIMAKANI STREET

Scale: As Shown Date: Jan. 24, 2006

SHEET No. S8 OF 14 SHEETS