



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
MAUI	HAW.	ER-16(009)	2012	10	13

Notes:

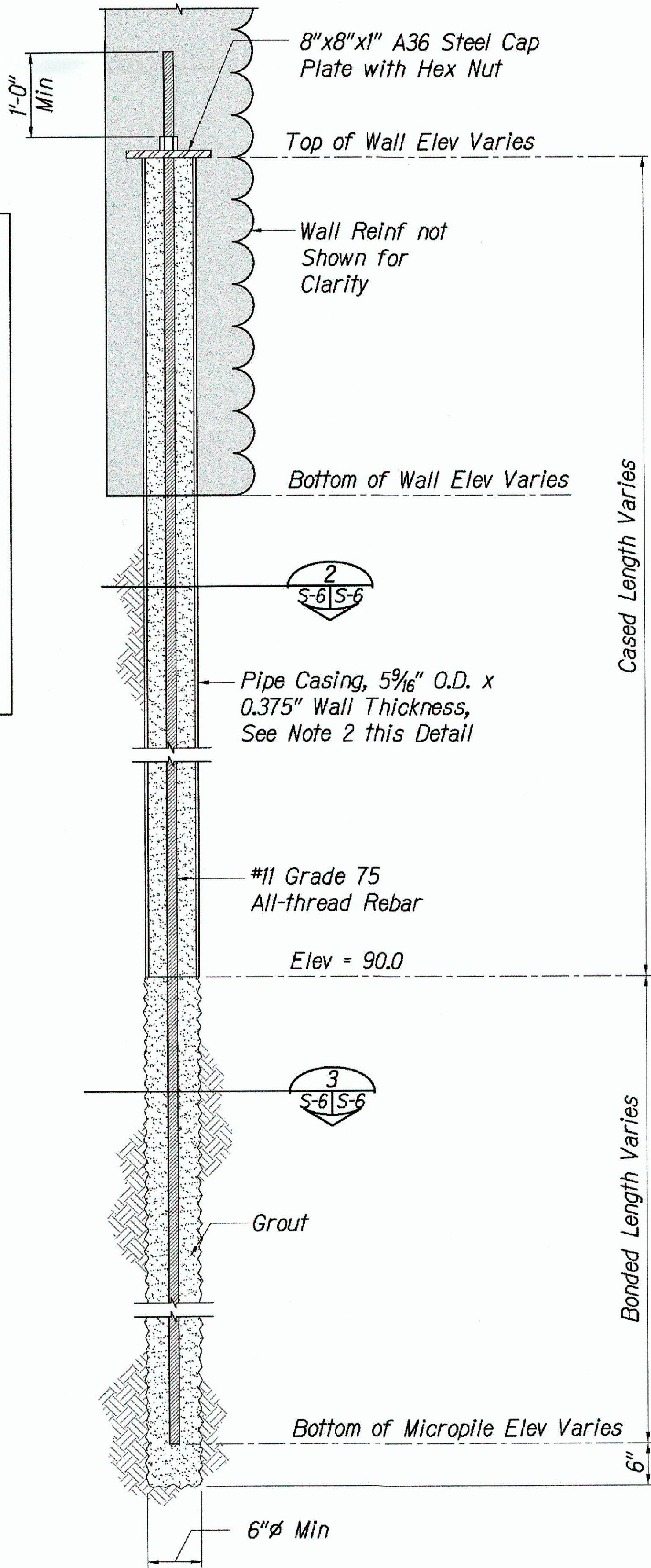
1. All-thread Rebar Shall Conform to ASTM A615, Grade 75.
2. Pipe Casing Shall Conform to API-5L Pipe.
3. The entire length of the pipe Casing Shall be Hot Dip Galvanized per ASTM A123.
4. All Spliced joints Shall be Capable of Developing the full Moment Capacity of the Gross Section of Casing.
5. Grout for Micropiles Shall be a neat cement, Type I or II and Shall Have a Minimum 28-Day Compressive Strength of 4,000 psi. No testing or any other type of loading shall be applied to the micropiles until the grout has reached a minimum compressive strength of 4,000 psi.
6. See special provisions section 509 - micropiles for production and procedures.

LEGEND FOR AS-BUILT POSTINGS

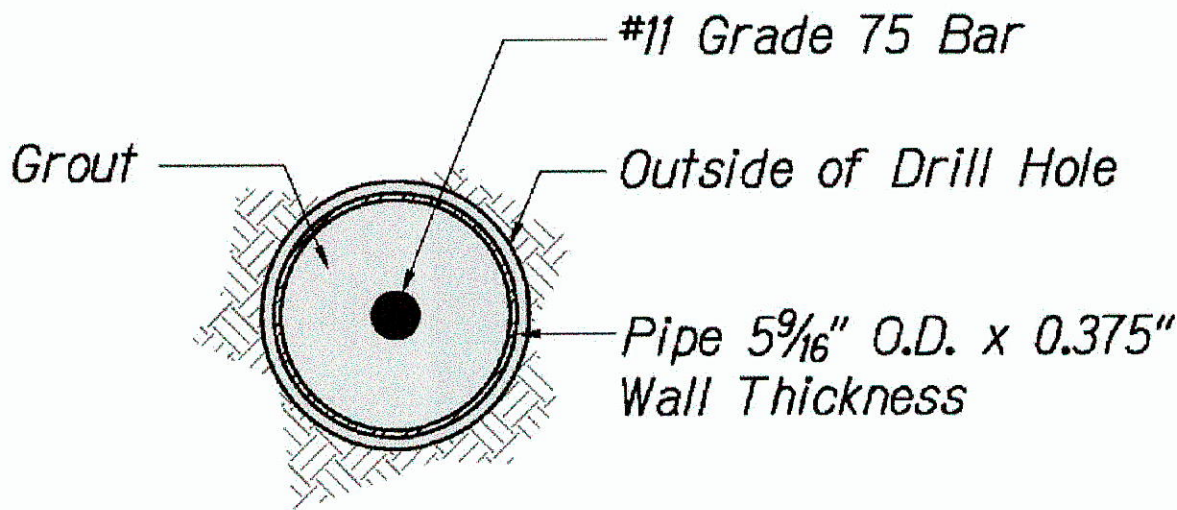
 Squiggly line for as-built deletion

 Double line for as-built deletion

Roadway Text for as-built posting



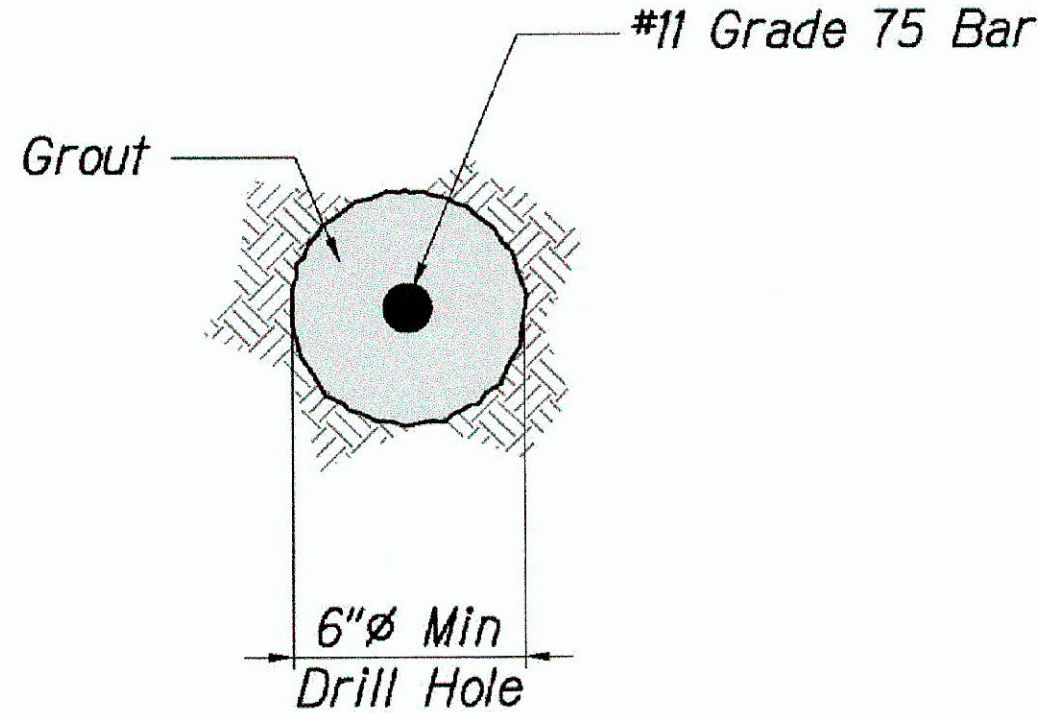
TYPICAL MICROPILE DETAIL 1
Not to Scale S-6 | S-6



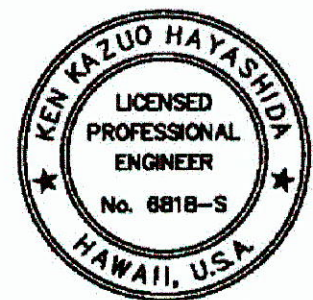
Note:

The annular space between the drill hole and the O.D. of the pipe casing shall be grouted throughout the cased length in order to provide lateral support of the micropile.

SECTION 2
Not to Scale S-6 | S-6



SECTION 3
Not to Scale S-6 | S-6



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MICROPILE DETAILS

HANA HIGHWAY EMERGENCY REPAIRS
MILEPOST 14.0
FEDERAL AID PROJECT No. ER-16(009)

Scale: As Noted Date: June 2012

SHEET No. S-6 OF 6 SHEETS

EXPIRATION DATE OF THE LICENSE 4/30/2014
THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.

ORIGINAL SURVEY PLOTTED BY	DATE
PLAN	5/20/06
DESIGNED BY	R. Yamamoto
NOTED BY	L. Chan
CHECKED BY	L. Chan
NO.	

FILE/NAME: P:\001-2601\0402.DOT - Roadway Emergency Repairs\04 - Emergency Repairs\0402\0402.dwg PLOT DATE: 04-16-2012 PLOT TIME: 11:24 am

"AS-BUILT"