

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HIE-01-IIM	2012	16	49

Soil Nail Location Table for Row A - Columns #1 to #6

Column #	Sta.	TW		BW		Elev. Row A	Soil Nail Embed Length, L (ft.)	Soil Nail Drilling Azimuth
		Offset	Elev.	Offset	Elev.			
		Lt. (ft.)		Lt. (ft.)				
1	304+90	22.21	59.00	7.28	39.00	57.00	25.00	83° 14' 48.48"
2	304+93.96	22.46	59.40	7.52	39.79	57.40	25.00	82° 23' 38.40"
* 3	304+98.13	22.83	59.81	7.87	40.63	57.81	25.00	80° 59' 53.88"
* 4	305+1.92	23.25	60.00	8.26	42.09	58.00	25.00	82° 07' 32.52"
5	305+5.27	23.69	60.00	8.68	42.09	58.00	25.00	82° 07' 32.52"
6	305+9.69	24.37	60.00	9.32	42.05	58.00	25.00	82° 07' 32.52"

Soil Nail Location Table for Row B - Columns #1 to #6

Column #	Sta.	TW		BW		Elev. Row B	Soil Nail Embed Length, L (ft.)	Soil Nail Drilling Azimuth
		Offset	Elev.	Offset	Elev.			
		Lt. (ft.)		Lt. (ft.)				
1	304+90.82	22.21	59.00	7.28	39.00	52.00	25.00	83° 14' 48.48"
2	304+94.17	22.84	59.40	7.54	39.79	52.40	25.00	82° 23' 38.40"
* 3	304+98.24	22.84	59.81	7.88	40.63	52.81	25.00	80° 59' 53.88"
* 4	304+2.37	23.31	60.00	8.31	42.09	53.00	25.00	82° 07' 32.52"
5	304+5.71	23.75	60.00	8.74	42.09	53.00	25.00	82° 07' 32.52"
6	304+9.92	24.41	60.00	9.35	42.05	53.00	25.00	82° 07' 32.52"

Soil Nail Location Table for Row C - Columns #1 to #6

Column #	Sta.	TW		BW		Elev. Row C	Soil Nail Embed Length, L (ft.)	Soil Nail Drilling Azimuth
		Offset	Elev.	Offset	Elev.			
		Lt. (ft.)		Lt. (ft.)				
1	304+90.17	22.21	59.00	7.28	39.00	47.00	25.00	83° 14' 48.48"
2	304+94.39	22.87	59.40	7.55	39.79	47.40	25.00	82° 23' 38.40"
* 3	304+98.54	22.87	59.81	7.91	40.63	47.81	25.00	80° 59' 53.88"
* 4	304+2.69	23.34	60.00	8.35	42.09	48.00	25.00	82° 07' 32.52"
5	304+6.18	23.82	60.00	8.80	42.09	48.00	25.00	82° 07' 32.52"
6	304+10.14	24.45	60.00	9.39	42.05	48.00	25.00	82° 07' 32.52"

Soil Nail Location Table for Rows A,B,C - Columns #7 to #39

Column #	Sta.	TW		BW		Elev.			Soil Nail Embed Length, L (ft.)	Soil Nail Drilling Azimuth
		Offset	Elev.	Offset	Elev.	Row	Row	Row		
		Lt. (ft.)		Lt. (ft.)		A	B	C		
7	305+14.09	25.16	60.00	10.06	42.00	58.00	53.00	48.00	25.00	81° 58' 52.32"
8	305+18.45	26.07	60.00	10.91	42.00	58.00	53.00	48.00	25.00	84° 46' 09.84"
9	305+22.84	26.94	60.00	11.72	42.25	58.00	53.00	48.00	25.00	88° 48' 41.76"
* 10	305+27.24	27.41	60.00	12.19	42.38	58.00	53.00	48.00	25.00	92° 27' 22.32"
* 11	305+31.64	27.46	60.16	12.30	43.00	58.16	53.16	48.16	25.00	98° 16' 08.76"
12	305+36.03	27.10	60.60	12.06	43.00	58.60	53.60	48.60	25.00	102° 15' 50.40"
13	305+40.44	26.33	61.00	11.47	43.04	59.00	54.00	49.00	25.00	105° 52' 28.56"
14	305+44.78	25.41	61.00	10.73	43.48	59.00	54.00	49.00	15.00	109° 15' 20.52"
15	305+49.16	24.59	61.00	10.09	43.92	59.00	54.00	49.00	15.00	110° 38' 51.36"
16	305+53.57	23.88	61.00	9.55	44.00	59.00	54.00	49.00	15.00	110° 17' 15.72"
17	305+58.02	23.29	61.00	9.11	44.00	59.00	54.00	49.00	15.00	110° 17' 15.72"
18	305+62.48	22.80	61.00	8.78	44.25	59.00	54.00	49.00	15.00	110° 57' 09.72"
19	305+66.96	22.44	61.00	8.56	44.70	59.00	54.00	49.00	15.00	110° 58' 40.08"
20	305+71.45	22.18	61.00	8.44	45.00	59.00	54.00	49.00	15.00	110° 20' 16.80"
21	305+75.96	22.04	61.00	8.43	45.00	59.00	54.00	49.00	15.00	110° 36' 20.88"
22	305+80.46	22.01	61.04	8.53	45.05	59.04	54.04	49.04	15.00	111° 03' 11.88"
23	305+84.97	22.10	61.40	8.73	45.50	59.40	54.40	49.40	15.00	111° 13' 58.80"
24	305+89.47	22.30	61.77	9.04	45.95	59.77	54.77	49.77	30.00	110° 31' 03.72"
25	305+93.95	22.62	61.73	9.46	46.00	59.73	54.73	49.73	30.00	110° 35' 45.60"
26	305+98.42	23.05	61.63	9.99	46.00	59.63	54.63	49.63	30.00	110° 57' 42.12"
27	306+2.89	23.59	61.92	10.62	46.00	59.92	54.92	49.92	30.00	112° 52' 54.12"
* 28	306+7.35	24.04	61.91	11.37	46.00	59.91	54.91	49.91	30.00	115° 50' 06.00"
* 29	306+11.81	24.09	61.92	12.22	45.64	59.92	54.92	49.92	35.00	119° 49' 53.40"
30	306+16.28	23.73	61.96	12.89	44.74	59.96	54.96	49.96	35.00	123° 23' 58.92"
* 31	306+20.73	23.18	62.00	13.21	43.93	60.00	55.00	50.00	35.00	127° 10' 07.68"
32	306+25.19	22.74	62.00	12.53	43.48	60.00	55.00	50.00	35.00	128° 33' 36.72"
* 33	306+29.67	22.42	62.00	11.84	43.03	60.00	55.00	50.00	35.00	129° 09' 50.40"
* 34	306+34.15	22.20	62.00	11.12	43.42	60.00	55.00	50.00	35.00	128° 50' 42.00"
35	306+38.65	22.11	62.00	10.77	43.87	60.00	55.00	50.00	35.00	128° 57' 06.84"
* 36	306+43.13	22.13	62.00	10.41	44.40	60.00	55.00	50.00	35.00	129° 46' 11.64"
* 37	306+47.86	22.23	62.00	10.16	45.28	60.00	55.00	50.00	35.00	130° 39' 21.96"
38	306+52.31	26.74	62.00	16.31	46.21	60.00	55.00	—	15.00	129° 21' 0.57"
39	306+56.99	25.97	62.00	16.86	48.23	60.00	55.00	—	15.00	129° 21' 0.57"

NOTES:

- For Soil Nail Embedment Length, See detail on Sht. No. SW-2.
- Construction of Soil Nails under exist building column footings, See Note 7 on Sht. No. SN-1.

LEGEND:

- © Soil Nail Row Number
- # Soil Nail Column Number
- TW Top of Wall
- BW Bottom Wall
- Offset offset distance from Baseline
- Lt. Left

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

04/30/12

EXPIRATION DATE OF THE LICENSE

LI PANG CHEN

LICENSED PROFESSIONAL ENGINEER

No. 3865-S

HAWAII, U.S.A.

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

SOIL NAIL LOCATIONS

& ELEVATIONS

INTERSTATE ROUTE H-1

AIEA STREAM EROSION CONTROL

Project No. HIE-01-IIM

Scale: NTS

Date: September 2011

SHEET No. SN-3 OF 3 SHEETS

DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
IN CHARGE	
NOTED BY	
DATE	

16-SSWIP-Aiea Stream Erosion Control/Cadd/Sheets/SN-3.dgn