

Project Title:		Oasis -Taaipit 132kV refurbishment									
Project ID											
Document title		OHL Structure staking table									
Date		29 May 2017									
Revision		R 1									
Author		Royal HaskoningDHV - Beukes Kotze									
Row #	Structure Number	Station (m)	X Easting (m)	Y Northing (m)	Centerline Z Elevation (m)	Line Angle (deg)	Structure Description	Struct. Height (m)	Embedded Length (m)	Mast length	Foundation Type
1	1	0.694	-2043.109	-3175328.956	533.909	0	Guyed terminal	20	2	22	N/A
2	2	238.791	-2210.889	-3175160.018	759.545	37.7078	7645 - 22m Angle Strain (30°-60°)	20	2	22	N/A
3	3	484.245	-2241.207	-3174916.443	762.955	-35.9313	7645 - 22m Angle Strain (30°-60°)	20	2	22	N/A
4	4	704.021	-2391.168	-3174755.778	762.273	0	D7649 24m Susp 37kN	21	3	24	N/A
5	5	933.505	-2547.753	-3174588.016	761.136	-28.3275	7645 - 22m Angle Strain (01°-30°)	20	2	22	N/A
6	6	1141.908	-2745.217	-3174521.386	760.414	0	D7649 24m Susp 37kN	21	3	24	N/A
7	7	1355.88	-2947.958	-3174452.974	760.126	0	D7649 24m Susp 37kN	21	3	24	N/A
8	8	1565.625	-3146.694	-3174385.914	762.153	0	D7649 24m Susp 37kN	21	3	24	N/A
9	9	1763.221	-3333.918	-3174322.739	765.807	0	D7649 24m Susp 37kN	21	3	24	N/A
10	10	1989.98	-3548.775	-3174250.239	770	-36.297	7645 - 22m Angle Strain (30°-60°)	20	2	22	N/A
11	11	2208.438	-3756.948	-3174316.479	771.359	0	D7649 24m Susp 37kN	21	3	24	N/A
12	12	2431.108	-3969.136	-3174383.997	773.214	0	D7649 24m Susp 37kN	21	3	24	N/A
13	13	2632.305	-4160.86	-3174445.004	770.466	0	D7649 24m Susp 37kN	21	3	24	N/A
14	14	2849.25	-4367.592	-3174510.785	770	-3.5862	7645 - 22m Angle Strain (01°-30°)	20	2	22	N/A
15	15	3075.681	-4578.646	-3174592.805	766.414	0	D7649 24m Susp 37kN	21	3	24	N/A
16	16	3243.835	-4735.38	-3174653.715	764.704	0	D7649 24m Susp 37kN	21	3	24	N/A
17	17	3422.532	-4901.942	-3174718.445	764.048	30.8074	7645 - 22m Angle Strain (30°-60°)	20	2	22	N/A
18	18	3675.381	-5151.271	-3174676.407	764.25	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
19	19	3945.881	-5418.007	-3174631.435	764.467	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
20	20	4213.829	-5682.226	-3174586.886	764.682	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
21	21	4474.14	-5938.914	-3174543.608	764.891	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
22	22	4741.489	-6202.542	-3174499.159	765.105	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
23	23	5017.889	-6475.095	-3174453.206	765.326	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
24	24	5289.48	-6742.907	-3174408.052	765.544	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
25	25	5558.728	-7008.408	-3174363.288	765.76	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
26	26	5812.941	-7259.082	-3174321.023	765.964	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
27	27	6098.172	-7540.343	-3174273.602	766.192	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
28	28	6382.099	-7820.319	-3174226.397	766.42	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
29	29	6665.21	-8099.49	-3174179.328	766.647	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
30	30	6928.807	-8359.418	-3174135.503	766.858	0	7645 - 22m Angle Strain (00°-05°)	20	2	22	N/A
31	31	7114.832	-8542.854	-3174104.576	767.007	0	7645 - 22m Angle Strain (00°-05°)	20	2	22	N/A
32	32	7377.805	-8802.168	-3174060.854	767.218	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
33	33	7655.767	-9076.261	-3174014.641	767.441	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
34	34	7913.588	-9330.493	-3173971.777	767.764	-25.3287	7645 - 22m Angle Strain (01°-30°)	20	2	22	N/A
35	35	8172.197	-9579.383	-3174042.011	767.271	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
36	36	8445.074	-9842.004	-3174116.12	766.751	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A

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37	37	8719.233	-10105.858	-3174190.577	766.229	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
38	38	8994.673	-10370.945	-3174265.381	765.704	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
39	39	9270.481	-10636.388	-3174340.286	765.178	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
40	40	9547.868	-10903.349	-3174415.62	764.649	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
41	41	9825.69	-11170.729	-3174491.072	764.12	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
42	42	10104.057	-11438.633	-3174566.672	763.589	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
43	43	10382.458	-11706.571	-3174642.281	763.059	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
44	44	10660.438	-11974.103	-3174717.775	762.529	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
45	45	10940.363	-12243.507	-3174793.798	761.995	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
46	46	11211.615	-12504.564	-3174867.466	761.478	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
47	47	11496.92	-12779.146	-3174944.95	760.935	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
48	48	11782.81	-13054.291	-3175022.593	760.39	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
49	49	12055.203	-13316.446	-3175096.57	760	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
50	50	12339.387	-13589.949	-3175173.75	760	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
51	51	12604.023	-13844.638	-3175245.62	760	0	7645 - 22m Angle Strain (00°-05°)	20	2	22	N/A
52	52	12860.896	-14091.857	-3175315.383	760	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
53	53	13134.661	-14355.332	-3175389.733	760	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
54	54	13405.585	-14616.073	-3175463.311	760	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
55	55	13680.995	-14881.133	-3175538.108	760	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
56	56	13956.397	-15146.183	-3175612.903	760	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
57	57	14232.733	-15412.133	-3175687.951	760	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
58	58	14510.278	-15679.246	-3175763.327	760	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
59	59	14788.353	-15946.87	-3175838.848	760	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
60	60	15067.018	-16215.062	-3175914.529	760	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
61	61	15348.575	-16486.037	-3175990.995	760	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
62	62	15629.846	-16756.735	-3176067.383	761.296	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
63	63	15909.817	-17026.184	-3176143.419	762.698	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
64	64	16192.975	-17298.699	-3176220.32	764.116	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
65	65	16476.81	-17571.866	-3176297.404	765.538	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
66	66	16757.264	-17841.78	-3176373.571	766.942	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
67	67	17025.6	-18100.03	-3176446.446	768.286	0	7645 - 22m Angle Strain (00°-05°)	20	2	22	N/A
68	68	17281.528	-18346.339	-3176515.952	769.568	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
69	69	17550.547	-18605.247	-3176589.013	768.938	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
70	70	17826.766	-18871.084	-3176664.03	767.333	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
71	71	18056.002	-19091.705	-3176726.287	766.001	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
72	72	18332.027	-19357.355	-3176801.25	764.397	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A

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73	73	18611.468	-19626.293	-3176877.142	762.773	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
74	74	18890.392	-19894.734	-3176952.893	761.152	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
75	75	19168.23	-20162.129	-3177028.349	759.045	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
76	76	19450.568	-20433.856	-3177105.027	755.654	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
77	77	19719.176	-20692.367	-3177177.977	754.421	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
78	78	19959.557	-20923.714	-3177243.26	753.772	0	D7649 24m Susp 37kN	21	3	24	N/A
79	79	20169.873	-21126.125	-3177300.378	753.203	0	D7649 24m Susp 37kN	21	3	24	N/A
80	80	20428.382	-21374.918	-3177370.585	752.504	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
81	81	20710.479	-21646.413	-3177447.198	751.742	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
82	82	20958.449	-21885.063	-3177514.542	751.072	0	D7649 24m Susp 37kN	21	3	24	N/A
83	83	21159.314	-22078.378	-3177569.094	750.529	0	D7649 24m Susp 37kN	21	3	24	N/A
84	84	21365.243	-22276.567	-3177625.021	750	0	D7649 24m Susp 37kN	21	3	24	N/A
85	85	21578.991	-22482.281	-3177683.071	750	-30.236	7645 - 22m Angle Strain (30°-60°)	20	2	22	N/A
86	86	21846.521	-22668.142	-3177875.499	751.188	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
87	87	22122.865	-22860.125	-3178074.265	753.812	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
88	88	22394.273	-23048.68	-3178269.483	755.933	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
89	89	22668.972	-23239.521	-3178467.066	757.686	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
90	90	22942.026	-23429.219	-3178663.467	759.428	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
91	91	23223.607	-23624.841	-3178866	761.225	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
92	92	23501.917	-23818.19	-3179066.181	763.001	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
93	93	23755.551	-23994.396	-3179248.614	764.619	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
94	94	23993.664	-24159.82	-3179419.882	773.512	0	D7649 24m Susp 37kN	21	3	24	N/A
95	95	24206.045	-24307.367	-3179572.642	785.63	0	D7649 24m Susp 37kN	21	3	24	N/A
96	96	24472.208	-24492.277	-3179764.086	790.975	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
97	97	24729.301	-24670.887	-3179949.006	806.443	0	Guyed terminal	20	2	22	N/A
98	98	25028.049	-24878.435	-3180163.887	761.667	57.9978	Guyed terminal	20	2	22	N/A
99	99	25292.26	-25136.869	-3180108.94	765	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
100	100	25582.634	-25420.894	-3180048.552	765	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
101	101	25871.677	-25703.618	-3179988.441	764.903	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
102	102	26161.447	-25987.052	-3179928.178	762.059	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
103	103	26461.374	-26280.422	-3179865.804	760	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
104	104	26724.127	-26537.43	-3179811.16	756.791	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
105	105	27014.481	-26821.436	-3179750.776	751.78	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
106	106	27304.751	-27105.359	-3179690.409	747.159	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
107	107	27593.733	-27388.023	-3179630.31	742.559	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A

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108	108	27893.148	-27680.891	-3179568.042	739	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
109	109	28181.642	-27963.077	-3179508.045	736.919	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
110	110	28474.306	-28249.343	-3179447.181	735	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
111	111	28766.81	-28535.451	-3179386.35	735	-48.1471	7645 - 22m Angle Strain (30°-60°)	22	2	24	N/A
112	112	29061.069	-28773.077	-3179559.908	732.222	36.622	7645 - 22m Angle Strain (30°-60°)	22	2	24	N/A
113	113	29295.42	-29007.42	-3179557.952	735	-12.2203	7645 - 22m Angle Strain (01°-30°)	20	2	22	N/A
114	114	29570.194	-29276.444	-3179613.871	731.314	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
115	115	29854.908	-29555.2	-3179671.812	731.402	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
116	116	30111.249	-29806.176	-3179723.98	733.067	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
117	117	30386.277	-30075.449	-3179779.95	734.853	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
118	118	30652.55	-30336.15	-3179834.139	734.152	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
119	119	30978.04	-30654.828	-3179900.378	730.925	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
120	120	31261.831	-30932.681	-3179958.132	735.444	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
121	121	31542.725	-31207.696	-3180015.296	739.918	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
122	122	31807.888	-31467.31	-3180069.259	748.456	0	D7649 24m Susp 37kN	21	3	24	N/A
123	123	32037.475	-31692.093	-3180115.982	755.962	0	D7649 24m Susp 37kN	21	3	24	N/A
124	124	32220.821	-31871.602	-3180153.294	768.931	0	D7649 24m Susp 37kN	21	3	24	N/A
125	125	32392.488	-32039.676	-3180188.23	780	17.4082	Guyed terminal	20	2	22	N/A
126	126	32732.136	-32377.665	-3180154.696	765	-42.7383	Guyed terminal	20	2	22	N/A
127	127	33023.522	-32610.155	-3180330.35	710	49.7582	Guyed terminal	20	2	22	N/A
128	128	33282.913	-32863.214	-3180273.386	710	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
129	129	33538.038	-33112.111	-3180217.359	713.511	0	D7649 24m Susp 37kN	21	3	24	N/A
130	130	33768.638	-33337.082	-3180166.718	716.69	0	D7649 24m Susp 37kN	21	3	24	N/A
131	131	34012.739	-33575.224	-3180113.112	719.999	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
132	132	34283.83	-33839.697	-3180053.578	723.572	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
133	133	34556.111	-34105.331	-3179993.784	727.16	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
134	134	34781.145	-34324.872	-3179944.365	730	-20.1052	7645 - 22m Angle Strain (30°-60°)	22	2	24	N/A
135	135	35080.714	-34621.933	-3179983.048	719.916	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
136	136	35397.217	-34935.785	-3180023.918	713.526	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
137	137	35684.985	-35221.145	-3180061.077	710.933	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
138	138	35978.761	-35512.462	-3180099.012	710	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
139	139	36262.829	-35794.151	-3180135.694	710	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
140	140	36556.838	-36085.698	-3180173.659	715	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
141	141	36769.176	-36296.258	-3180201.078	715	0	D7649 24m Susp 37kN	21	3	24	N/A

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Document title		OHL Structure staking table									
Date		29 May 2017									
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Row #	Structure Number	Station (m)	X Easting (m)	Y Northing (m)	Centerline Z Elevation (m)	Line Angle (deg)	Structure Description	Struct. Height (m)	Embedded Length (m)	Mast length	Foundation Type
142	142	37133.417	-36657.45	-3180248.112	695.444	-52.7884	7645 - 22m Angle Strain (30°-60°)	22	2	24	N/A
143	143	37425.574	-36802.611	-3180501.656	692.939	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
144	144	37712.994	-36945.417	-3180751.088	690.475	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
145	145	37989.298	-37082.701	-3180990.873	685.403	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
146	146	38328.517	-37251.245	-3181285.258	682.5	42.6571	7645 - 22m Angle Strain (30°-60°)	22	2	24	N/A
147	147	38633.188	-37541.734	-3181377.131	680	-53.0759	7645 - 22m Angle Strain (30°-60°)	22	2	24	N/A
148	148	38878.684	-37623.171	-3181608.726	674.307	0	7645 - 22m Angle Strain (00°-05°)	20	2	22	N/A
149	149	39084.743	-37691.526	-3181803.118	672.02	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
150	150	39383.251	-37790.549	-3182084.723	673.03	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
151	151	39664.944	-37883.993	-3182350.465	670.942	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
152	152	39911.686	-37965.844	-3182583.235	670.179	0	D7649 24m Susp 37kN	21	3	24	N/A
153	153	40102.804	-38029.243	-3182763.531	669.639	0	D7649 24m Susp 37kN	21	3	24	N/A
154	154	40339.353	-38107.712	-3182986.686	673.966	6.105	7645 - 22m Angle Strain (01°-30°)	20	2	22	N/A
155	155	40559.332	-38202.341	-3183185.271	675	10.7197	7645 - 22m Angle Strain (01°-30°)	20	2	22	N/A
156	156	40770.821	-38327.242	-3183355.938	677.439	48.6658	7645 - 22m Angle Strain (30°-60°)	20	2	22	N/A
157	157	41014.879	-38570.32	-3183377.786	681.981	0	D7649 26m Susp 37kN	22.8	3.2	26	N/A
158	158	41309.801	-38864.059	-3183404.187	692.368	-39.0058	7645 - 22m Angle Strain (30°-60°)	22	2	24	N/A
159	159	41495.817	-38997.547	-3183533.735	695	0	7645 - 22m Angle Strain (00°-05°)	20	2	22	N/A
160	160	41711.55	-39152.361	-3183683.979	695	0	D7649 24m Susp 37kN	21	3	24	N/A
161	161	41924.147	-39304.926	-3183832.039	695	-41.8852	7645 - 22m Angle Strain (30°-60°)	20	2	22	N/A
162	162	42147.554	-39320.405	-3184054.909	699.017	0	D7649 24m Susp 37kN	21	3	24	N/A
163	163	42334.199	-39333.338	-3184241.105	700	0	Guyed terminal	18	2	20	N/A