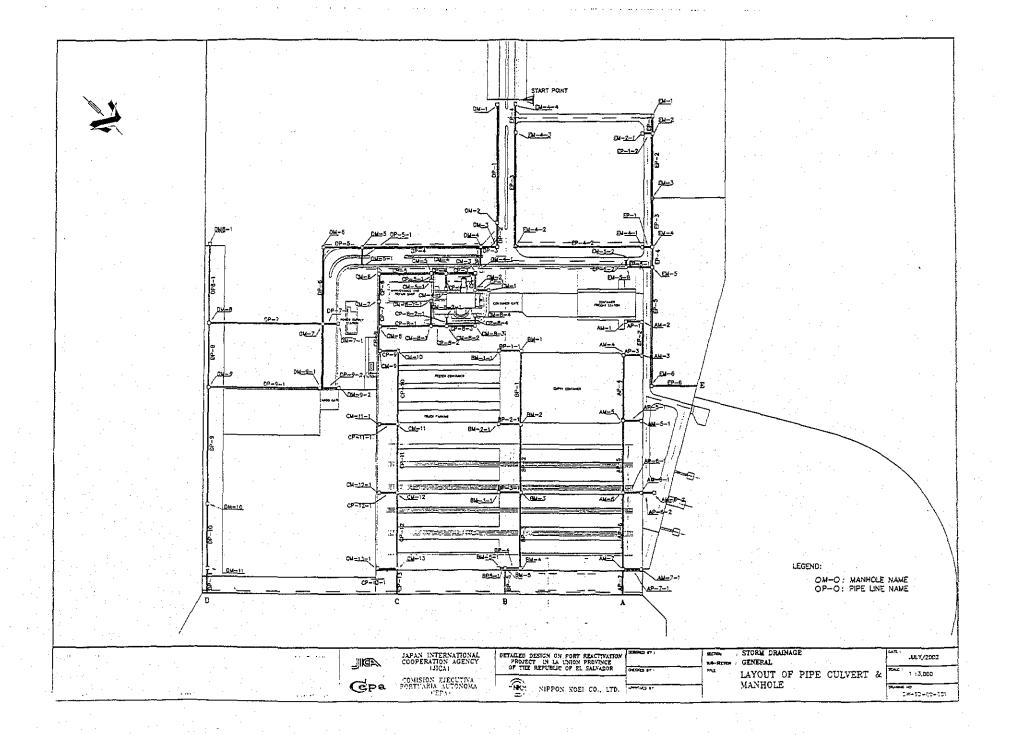
	QUANTITY CALCULATION C		
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	Pipe culvert 457 mm	Pay Item No. (BOQ)	2H-0/01
Quantity Item	Excavation and Disposal	Unit	W ²

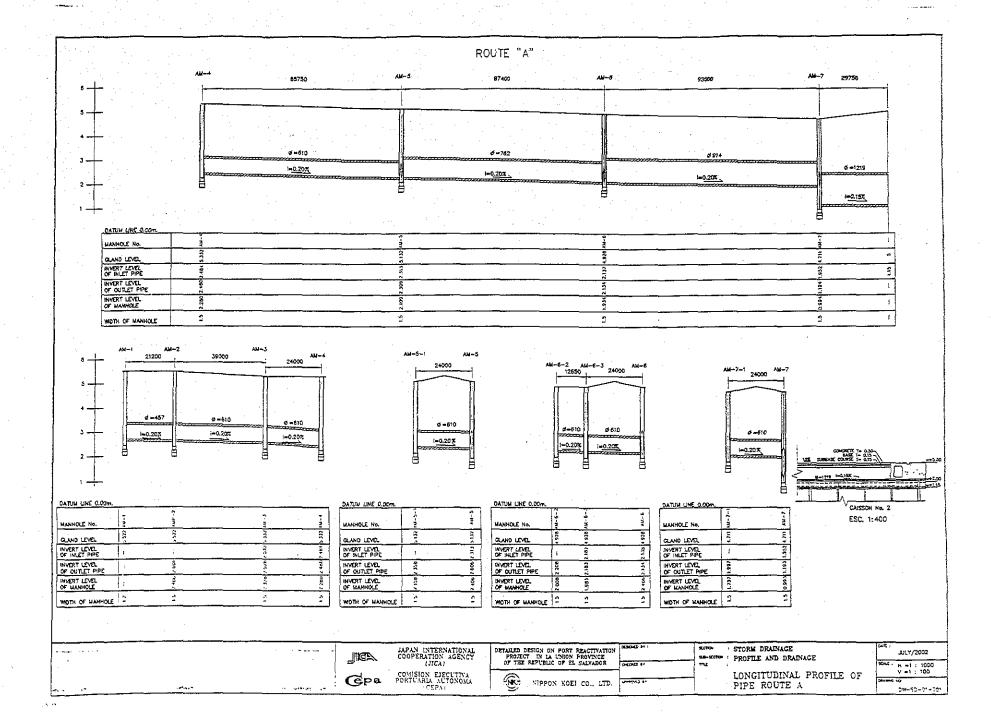
- 1 Average level of inlet level and outlet level
- 2. Average Level minus base thickness
- 3. Average ground level
- 4 Calculation of effective height
- 5. Calculation of Area
- 6. calculation of volume: Area time entire

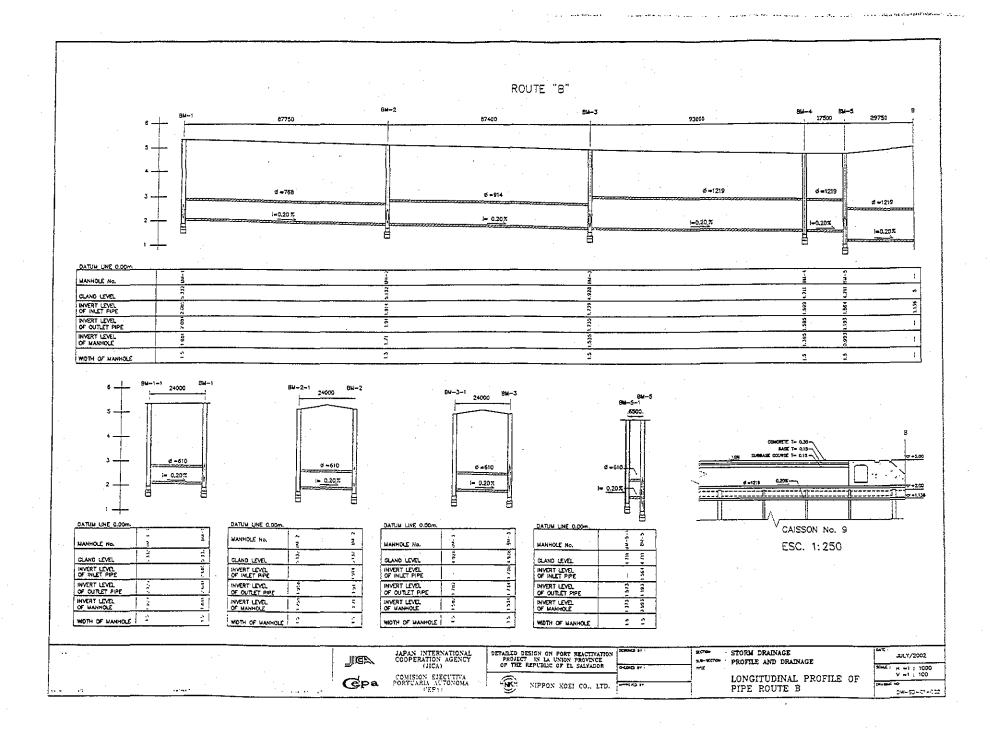
References. Calculation Base and Revisions

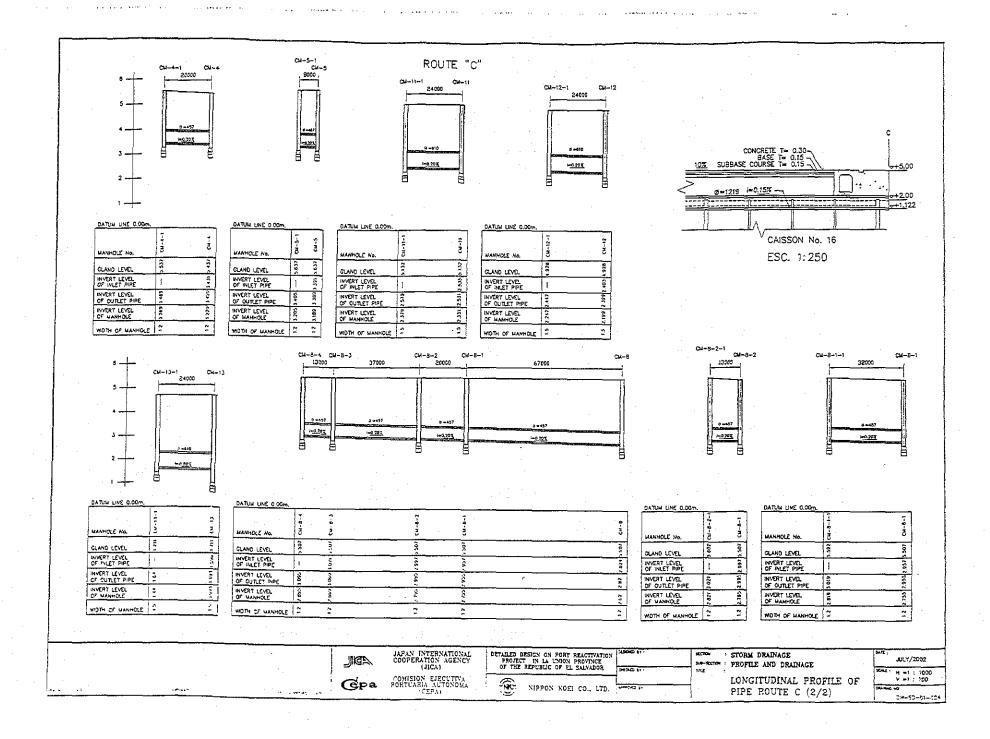
DW-SD-00-001 DW-SD-01-001~008

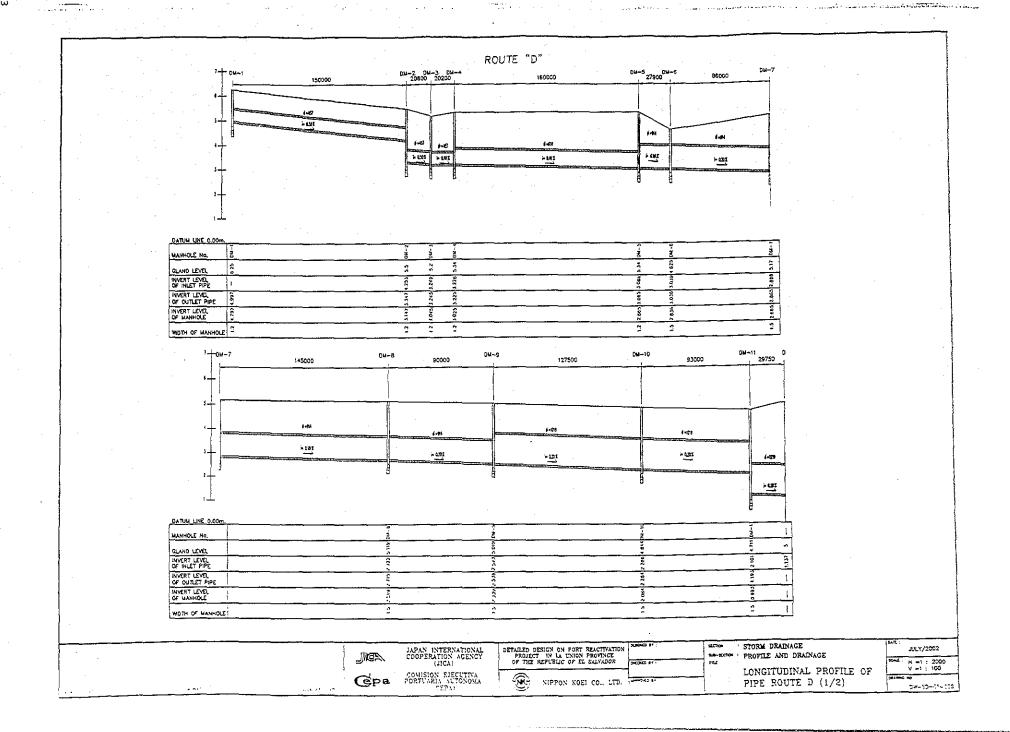
Rev	Prepa	ared	No. of	Che	cked	Revi	ewed	Superseded
. 101	by	Date	Pages	by	Date	by	Date	by Calc No.
0	Kola Gora			Mr. Journa		Mr. Ando		,
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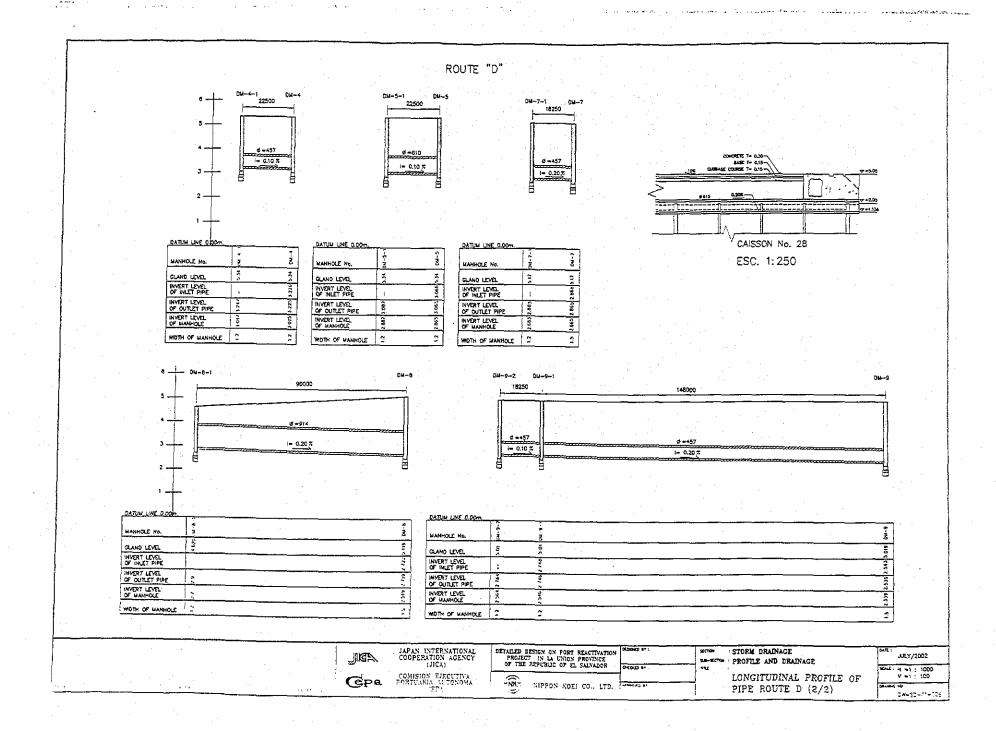


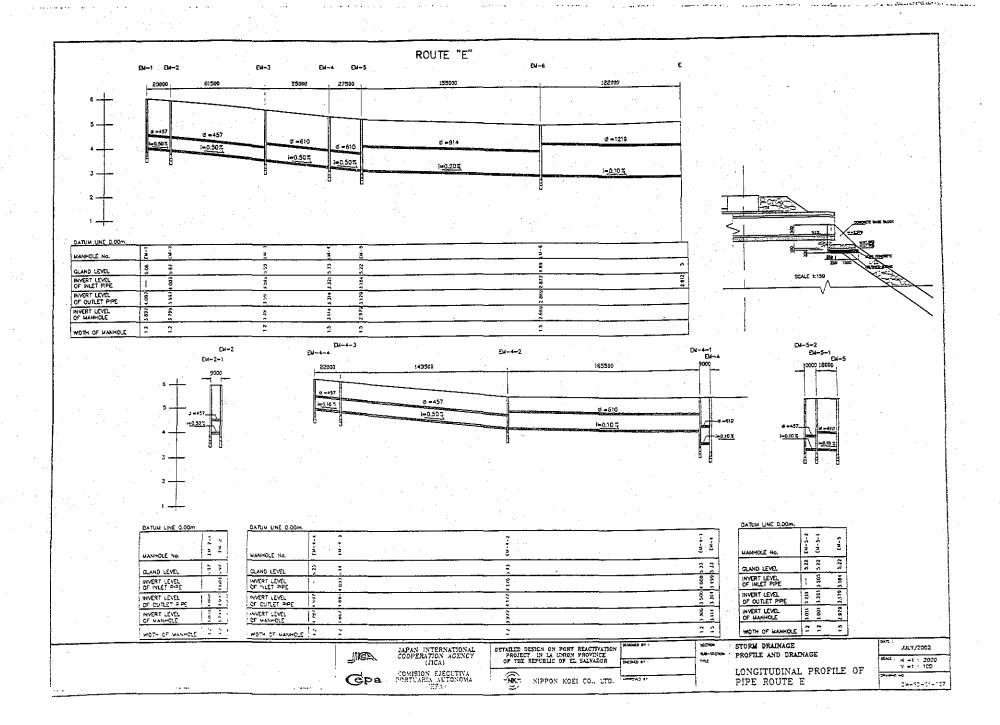


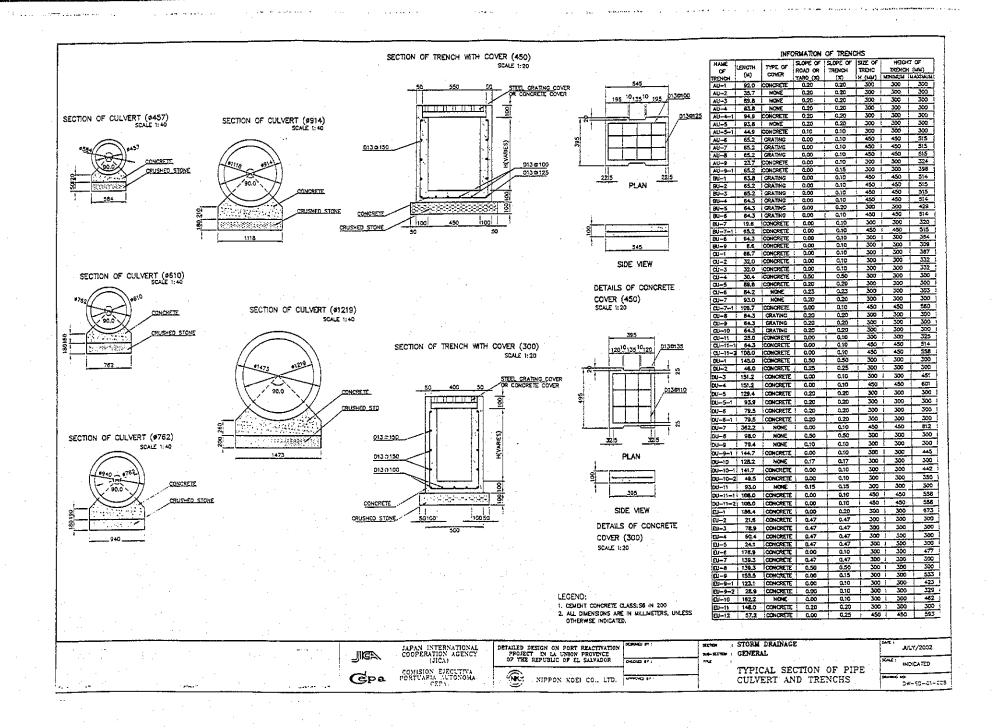




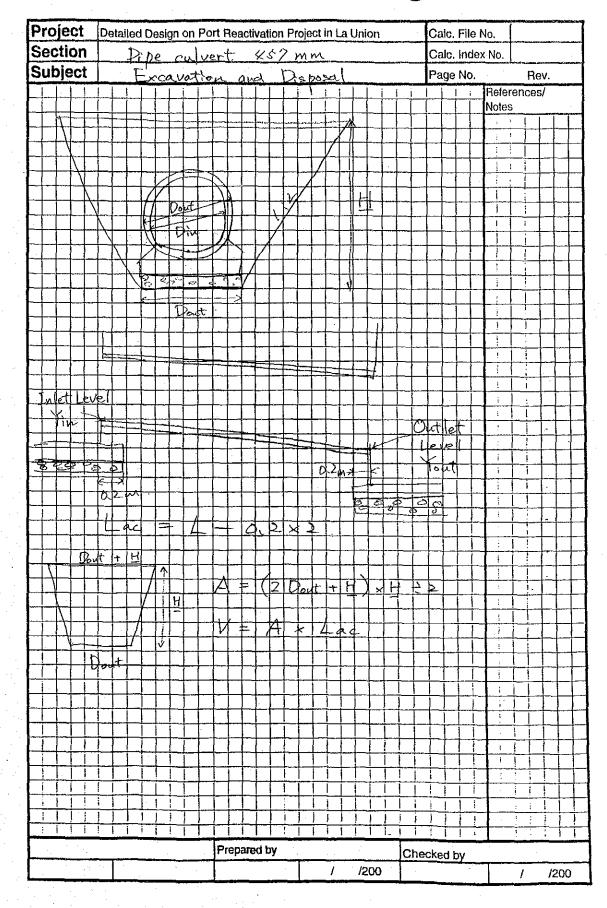








(I) NIPPON KOEL CO.,LTD.



Pipe Culvert集計

	·											. ,,	e Culverta	
1	D _{in}	Dout	t	G	Yin	Yout	H	ī.	Lac	Vex	Vos	Vlc	Vbf	Cmpct
1 CP-1	(m) 0,457	(m) 0.584	(m) 0.064	<u>(m)</u>	(m)	(m)	(m)	(m)	(m)	(m3)	<u>(m3)</u>	(m3)	(m3)	(m2)
2 CP-2	0.457	0.584	0.064	5.55 5.487	3.599 3.543	3.545 3.505	2,312 2.297	17 20	16.6 19.6	67	1.46	1.47	60	48.1
3 CP-3	0.457	0.584	0.064	5.437	3.503	3,431	2.304	35	34.6	78 139	1.72 3.04	1.74 3.06	70 124	56.5 100
4 CP-4	0.457	0.584	0.064	5,537	3,429	3.391	2.461	20	19.6	88	1.72	1.74	80	59,7
5 CP-4-1	0.457	0.584	0.064	5.487	3.469	3.431	2.371	20	19.6	83	1.72	1.74	75	58
6 CP-5	0,457	0.584	0.064	5.637	3,389	3.257	2,648	70	69.6	352	6.1	6.16	321	225
7 CP-5-1 8 CP-7	0,457	0.584	0.064	5,637	3.405	3.391	2.573	8	7.6	37	0.67	0.68	34	24
9 CP~8-1	0.457 0.457	0.584 0.584	0.064	5.682	2.891	2.824	3,158	35	34.6	237	3.04	3.06	222	129,5
10 CP-8-1-1	0.457	0.584	0.064	5.507 5.55	2.955 3.019	2.824 2.957	2.951 2.896	68 30	67.6	411	5.93	5.98	381	239
11 CP-8-2	0.457	0.584	0.064	5.507	2.995	2.957	2.865	20	29.6 19.6	175 114	2.6 1.72	2,62 1.74	162 106	103.1
12 CP-8-2-1	0.457	0.584	0,064	5.555	3.021	2.997	2.88	10	9.6	56	0.85	0.85	52	67.7 33.3
13 CP-8-3	0.457	0.584	0.064	5,507	3.069	2,997	2.808	35	34.6	194	3.04	3.06	179	117.4
14 CP-8-4	0.457	0.584	0.064	5,507	3.095	3,071	2.758	10	9.6	52 、	0.85	0.85	48	32.1
15 DP-1 16 DP-2	0.457	0.584	0.064	5.875	4.997	4.253	1.584	129.19	128.79	281	11.29	11,39	224	279.3
17 DP-3	0.457 0.457	0.584 0.584	0.064	5.35	3.347	3.249	2.386	20.82	20.42	87	1.79	1.81	78	60.7
18 DP-4-1	0.457	0.584	0.064	5.27 5.34	3.245 3.247	3.226 3.226	2.368 2.437	24.13 21.75	23.73	100	2.08	2.1	90	70.1
19 DP-7-1	0.457	0.584	0.064	5.17	2.883	2.868	2.628	18.25	21,35 17.85	94 90	1.88 1.57	1.89 1.58	85 82	64.5 57.4
20 DP-9-1	0.457	0.584	0.064	5,015	2.746	2.543	2.704	150	149.6	784	13.11	13.23	718	491.9
21 DP-9-2	0.457	0.584	0.064	5.01	2.764	2.748	2.588	18.25	17.85	87	1.57	1.58	79	56.7
22 EP-1	0,457	0.584	0.064	6.015	4.097	4.003	2.299	20	19.6	79	1.72	1.74	71	56.6
23 EP-2 24 EP-2-1	0.457	0.584	0.064	5.78	3.997	3.596	2.317	81.47	81.07	328	7.11	7.17	292	235.2
25 EP-4-3	0.457 0.457	0.584 0.584	0.064	5.97 5.785	4.008	4.003	2.298	9.1	8.7	35	0.77	0,77	32	25.1
26 EP-4-4	0.457	0.584	0.064	6.195	4.887 4.997	4.176 4.893	1.587 1.584	142.69 22	142.29	312	12.47	12.58	249	309
27 EP-5-2	0.457	0.584	0.064	5,22	3.211	3.205	2.346	9.1	21.6 8.7	48 36	1.9 0.77	1.91 0.77	39 33	46.9 25.5
Total							2.070	1,070		4450	92.5	93.3	3990	3080
 											,·	77.0	7770	2000
1 AP-1 2 AP-2	0.61	0.762	0.076	5.522	2.644	2.61	3.311	20	19.6	157	2.69	3.01	143	79.9
3 AP-3	0.61	0.762 0.762	0.076 0.076	5.427	2.606	2.532	3.274	40	39.6	312	5.44	6.07	283	159.9
4 AP-4	0.61	0.762	0.076	5.332 5.232	2.528 2.48	2.484 2.313	3.242 3.251	26 85.78	25,6	198	3.52	3.92	179	102.6
5 AP-5-1	0.61	0.762	0.076	5.132	2.358	2.309	3.214	26	85,38 25.6	663 195	11.72 3.52	13.08	600	342.7
6 AP-6-1	0.61	0.762	0.076	4.928	2.182	2.138	3.184	26	25.6	192	3.52	3.92 3.92	176 173	101.8 101.1
7 AP-6-2	0,61	0.762	0.076	4.928	2.207	2.186	3.147	12.65	12.25	91	1.69	1.88	82	47.9
8 AP-7-1	0.61	0.762	0.076	4.711	1.997	1.952	3.152	26	25.6	189	3.52	3.92	170	100.2
9 BP~1-1 10 BP-2-1	0.61	0.762 0.762	0.076	5.332	2.129	2.085	3.641	26	25.6	241	3.52	3.92	222	112.8
11 BP-3-1	0.61 0.61	0.762	0.076	5,132 4,928	1.958	1.914	3,612	26	25.6	238	3.52	3.92	219	112
12 CP-11-1	0.61	0.762	0.076	5.132	1.782 2.579	1,738 2,535	3.584 2.991	26 26	25.6 25.3	235	3.52	3.92	216	111.3
13 CP~12~1	0.61	0.762	0.076	4.928	2.447	2.403	2.919	26	25.6	173 167	3.52 3.52	3.92	154 148	96.1 94.3
14 CP-13-1	0.61	0.762	0.076	4.711	1.64	1.596	3.509	26	25.6	227	3.52	3.92	208	109.4
15 CP-6	0.61	0.762	0.076	5.747	3.255	3.193	2.939	30	29.6	195	4.06	4.54	173	109.6
16 CP-8 17 CP-9	0.61	0.762	0.076	5.42	2.82	2.754	3.049	35	34.6	242	4,75	5.3	216	131.9
18 DP-4	0.61	0.762 0.762	0.076	5.332	2.75	2.706	3.02	26	25.6	176	3,52	3.92	157	96.9
19 DP~5-1	0.61	0.762	0.076	5.34 5.34	3.225	3.066	2.61 2.679	160 21.75	159.6	862	21.9	24.44	743	538.2
20 EP~3	0.61	0.762	0.076	5.46	3.59	3.321	2.42	55.01	21.35 54.61	121 261	2,93 7.5	3.27	105	73.5
21 EP-4	0.61	0.762	0.076	5.275	3.314	3.184	2.442	27.3	26.9	131	3.69	8.37 4.12	221 111	173.8 86.2
22 EP-4-1	0.61	0.762	0.076	5.33	3.506	3.499	2.243	9.1	8.7	37	1.2	1.34	31	26.2
23 EP-4-2	0.61	0.762	0.076	5.38	4.172	4.008	1.706	5.43	5.03	14	0,69	0.78	11	12.5
24 EP-5-1 Total	0.61	0.762	0.076	5.22	3.201	3.184	2.443	15.3	14.9	73	2.05	2.29	62	47.8
, viai								810		5390	110	122	4810	2970
1 AP-5	0.762	0.94	0.089	5.03	2,309	2.138	3.265	87.49	87.09	732	14.74	19.7	637	366.3
2 BP-1	0.762	0.94	0.089	5.232	2.081	1,914	3.693	85.78	85.38	879	14.45	19.31	786	395.6
Total								174		1620	29.2	39,1	1430	762
1 AP-6	0.914	1.118	0.102	400	4101	1050	0.000							
2 BP-2	0.914	1.118	0.102	4.82 5.03	2.134 1.91	1,952	3.269	93.6	93.2	839	18.76	28.14	701	408.9
3 CP-10	0.914	1.118	0.102	5.232	2,702	2.535	3.697 3.105	87.49 85.78	87.09 85.38	956 708	17.53	26.3	827	419.4
4 IDP-5	0.914	1.118	0.102	4.983	3.065	3.039	2.423	37.88	37.48	212	17.19 7.55	25.78 11.32	581 156	360.6 132.8
5 :DP-6	0.914	1.118	0.102	4.898	3,036	2.868	2.438	85.88	85.48	488	17.21	25.81	361	304
6 DP-7	0.914	1.118	0.102	5.145	2.865	2.722	2.843	150	149.6	1081	30.11	45.17	859	592.6
7 DP-8 8 DP-8-1	0.914	1.118	0.102	5.069	2.719	2.543	2.93	90	89.6	679	18.04	27.06	546	362.8
9 'EP-5	0.914	1.118	0.102	4.872 5.055	2.9 3.179	2.722 2.872	2.553	90	89.6	548	18.04	27.06	415	329
Total	<u> </u>		2.102	J.033	0.119	L.D/L	2.521	145 866	144.6	868 6380	29.1	43.66	653	526.2
									_	U39U	174	261	5100	3440
1 BP-3	1.219	1.473	0.127	4.82	1.735	1.599	3.74	93.6	93.2	1166	27.46	46.55	933	485.9
2 BP-4	1.219	1.473	0.127	4.711	1.595	1.564	3.718	20	19.6	243	5.78	9.79	194	101.8
3 BP-5-1 4 CP-11	1.219 1.219	1.473	0.127	4.711	1.573	1.564	3.729	6.	5.6	70	1.65	2.8	56	29.2
5 CP-12	1.219	1.473 1.473	0.127	5.03 4.82	2.531 2.399	2.403	3.15	87.49	87.09	837	25.66	43.5	619	402.7
6 DP-10	1.219	1.473	0.127	4.778	2.284	2.217	3.099	93.6 90.6	93.2 90.2	873	27.46	46.55	640	426.2
7 DP-9	1.219	1.473	0.127	4.932	2.539	2.288	3.105	130.5	130.1	876 1223	26.58 38.33	45.05 64.98	650 898	419
8 EP-6	1.219	1.473	0.127	4.89	2.869	2.812	2.636	58	57.6	424	16.97	28.77	280	595.6 236.7
Total								580		5720	170	288	4270	2700
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	QUANTITY CALCULATION C		- A Control of the Co
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	Dipe culvert 457mm	Pay Item No. (BOQ)	24-0/02
Quantity item	Crushed stone for foundation	Unit	Most of the second

Volume of crushed stone was computed by multiplying socion area by length. Regarding actual length, marries base was taken into consideration.

References. Calculation Base and Revisions

See the last item of excavation and disposal

Rev	Prepa	ared	No. of	Chec	ked	Revie	ewed	Superseded
	by	Date	Pages	by	Date	by	Date	by Calc No.
0	Pala Gorio - A			Mr. Tnuma		Mr. Ando		
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MIPPON KOEI CO, LTD.

Project	Detailed Design on F	ort Reactivation Project in La Union	Calc. File No.	
Section	Pipe calv	ert 457 mm	Calc. Index No.	
Subject	Crushed sto	one for foundation	Page No.	Rev.
			l Ref	erences/
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		5 1 150mm	╎┈╎┈╎┈╎┈	++++
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	Din	D _{out}	<u>t</u>	<u>G</u>	Yin	Yout	Н	L	Lac	Vex	Vcs	Vlc	Vbf	Cmpct
	(m)	(m)	(m)	(m)	(n)	(m)	(m)	(m)	(m)	(m3)	(m3)	(m3)	(m3)	(m2)
1 CP-1	0.457	0.584	0,064	5.55	3,599	3,545	2.312	17	16.6	67	1.46	1.47	60	48.1
2 OP-2 3 OP-3	0.457 0.457	0.584	0.064	5.487 5.437	3.543	3,505 3,431	2.297 2.304	20	19.6 34.6	78	1.72	1.74	70	56.5
4 CP-4	0.457	0.584	0.064	5.537	3.429	3.391	2.461	35 20	19.6	139 88	3.04 1.72	3,06 1,74	124 80	100 59.7
5 CP-4-1	0.457	0.584	0.064	5.487	3.469	3.431	2.371	20	19.6	83	1.72	1.74	75	58
6 CP-5	0.457	0.584	0.064	5.637	3,389	3.257	2.648	70	69.6	352	6.1	6.16	321	225
7 CP-5-1	0,457	0.584	0.064	5.637	3.405	3.391	2.573	8	7.6	37	0.67	0,68	34	24
8 CP-7	0.457	0,584	0.064	5.682	2.891	2.824	3,158	35	34.6	237	3.04	3.06	222	129,5
9 CP-8-1	0.457	0.584	0.064	5.507	2.955	2.824	2,951	68	67.6	411	5.93	5,98	381	239
10 CP-8-1-1 11 CP-8-2	0,457 0,457	0.584	0.064	5.55 5.507	3.019 2.995	2.957 2.957	2,896	30	29.6	175	2.6	2.62	162	103.1
12 GP-8-2-1		0.584	0.064	5.555	3.021	2.997	2,865 2,88	20 10	19.6 9.6	114 56	1.72 0.85	1.74 0.85	106 52	67.7 33.3
13 CP-8-3	0.457	0.584	0.064	5.507	3.069	2.997	2.808	35	34.6	194	3.04	3.06	179	117.4
14 CP-8-4	0.457	0.584	0.064	5.507	3.095	3,071	2.758	10	9.6	52	0.85	0.85	48	32.1
15 DP-1	0.457	0.584	0.064	5.875	4.997	4,253	1.584	129.19	128.79	281	11.29	11,39	224	279.3
16 DP-2	0.457	0.584	0.064	5,35	3,347	3.249	2,386	20.82	20.42	87	1.79	1.81	. 78	60.7
17 DP-3	0,457	0.584	0.064	5.27	3.245	3,226	2.368	24,13	23.73	100	2.08	2.1	90	70.1
18 DP-4-1	0.457	0.584	0.064	5.34	3.247	3.226	2,437	21.75	21.35	94	1.88	1.89	85_	64.5
19 DP-7-1 20 DP-9-1	0,457 0,457	0.584	0,064	5.17 5.015	2.883 2.746	2.868 2.543	2.528 2.704	18,25	17.85	90	1.57	1,58	82	57.4
21 DP-9-2	0.457	0.584	0.064	5.01	2.764	2.748	2.588	150 18.25	149.6 17.85	784 87	13.11 1.57	13.23 1.58	718 79	491.9 56.7
22 EP-1	0.457	0.584	0.064	6.015	4.097	4.003	2.299	20	19.6	79	1.72	1.74	71	56.6
23 EP-2	0.457	0.584	0.064	5.78	3.997	3.596	2.317	81.47	81.07	328	7.11	7,17	292	235.2
24 EP-2-1	0.457	0.584	0.064	5,97	4.008	4,003	2.298	9,1	8.7	35	0.77	0.77	32	25.1
25 EP-4-3	0.457	0.584	0.064	5.785	4.887	4.176	1.587	142.69	142.29	312	12,47	12.58	249	309
26 EP-4-4	0.457	0.584	0.064	6.195	4.997	4.893	1.584	22	21.6	. 48	1,9	1,91	39	46.9
27 EP-5-2	0,457	0.584	0.064	5.22	3.211	3.205	2.346	9,1	8.7	36	0.77	0.77	33	25.5
Total						~ .		1,070		4450	92.5	93.3	3990	3080
1 AP-1	0.61	0.762	0.076	5.522	2.644	2.61	3.311	20	19.6	157	2.69	3.01	143	79.9
2 AP-2	0.61	0.762	0.076	5.427	2.606	2.532	3.274	40	39.6	312	5.44	6,07	283	159.9
3 AP-3	0,61	0.762	0.076	5.332	2.528	2.484	3.242	26	25.6	198	3.52	3.92	179	102.6
4 AP-4	0.61	0.762	0.076	5.232	2.48	2.313	3,251	85.78	85.38	663	11.72	13.08	600	342.7
5 AP-5-1	0.61	0.762	0.076	5.132	2.358	2.309	3.214	26	25.6	195	3.52	3,92	176	101.8
6 AP-6-1 7 AP-6-2	0.61	0.762	0.076	4.928	2.182	2.138	3.184	26	25.6	192	3.52	3.92	173	101.1
7 AP-8-2 8 AP-7-1	0,61 0.61	0.762 0.762	0.076	4.928 4.711	2.207 1.997	2.186 1.952	3.147 3.152	12.65 26	12.25 25.6	91 189	1.69 3.52	1.88	82 170	47.9
9 BP-1-1	0.61	0.762	0.076	5.332	2.129	2.085	3.641	26	25.6	241	3.52	3.92 3.92	222	100.2 112.8
10 BP-2-1	0.61	0.762	0.076	5.132	1.958	1.914	3.612	26	25.6	238	3.52	3.92	219	112
11 BP-3-1	0.61	0.762	0.076	4.928	1.782	1.738	3.584	26	25.6	235	3.52	3.92	216	111.3
12 CP~11-1	0.61	0.762	0.076	5.132	2.579	2.535	2.991	26	25.6	173	3.52	3.92	154	96.1
13 CP-12-1	0.61	0.762	0.076	4.928	2.447	2.403	2.919	26	25.6	167	3.52	3.92	148	94.3
14 CP-13-1	0.61	0.762	0.076	4.711	1.64	1.596	3.509	26	25.6	227	3.52	3.92	208	109.4
15 CP-6 16 CP-8	0.61	0.762 0.762	0.076	5.747 5.42	3.255 2.82	3.193 2.754	2.939 3.049	30 35	29.6 34.6	195 242	4.06 4.75	4.54	<u>173</u> 216	109.6
17 CP-9	0,61	0.762	0.076	5.332	2.75	2.706	3.02	26	25.6	176	3.52	5.3 3.92	157	131.9
18 DP-4	0.61	0.762	0.076	5.34	3.225	3.066	2.61	160	159.6	862	21.9	24.44	743	538.2
19 DP-5-1	0.61	0.762	0.076	5.34	3.087	3.066	2.679	21.75	21.35	121	2.93	3.27	105	73.5
20 EP~3	0.61	0.762	0.076	5.46	3.59	3.321	2.42	55.01	54.61	261	7.5	8.37	221	173.8
21 EP-4	0.61	0.762	0.076	5.275	3.314	3.184	2.442	27.3	26.9	131	3.69	4.12	111	86.2
22 EP-4-1	0.61	0.762	0.076	5.33	3,506	3.499	2.243	9.1	8.7	37	1.2	1.34	31	26.2
23 EP-4-2 24 EP-5-1	0.61 0.61	0.762 0.762	0.076	5.38 5.22	4.172 3.201	4.008 3.184	1.706 2.443	5.43 15.3	5.03 14.9	73	0.69 2.05	0.78	62	12.5 47.8
Total	 0.01	V.70Z	0.070	J.44_	0.201	9.104	۷.443	810	14.9	5390	110	2,29 122	4810	2970
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1 AP-5	0.762	0,94	0.089	5.03	2.309	2.138	3.265	87.49	87.09	732	14.74	19.7	637	366.3
2 BP-1	0.762	0.94	0.089	5.232	2.081	1.914	3.693	85.78	85.38	879	14.45	19.31	786	395.6
Total	 						·	174		1620	29.2	39.1	1430	762
1 AP-6	0.914	1.118	0.102	4.82	2.134	1.952	3,269	93.6	93.2	020	18.76	70 14	701	408.9
2 BP-2	0.914	1.118	0.102	5.03	1.91	1.739	3.697	93.6 87.49	87.09	839 956	17.53	28.14 26.3	701 827	408.9
3 CP-10	0.914	1.118	0.102	5.232	2.702	2.535	3.105	85.78	85.38	708	17.19	25.78	581	360.6
4 (DP-5	0.914	1.118	0.102	4.983	3.065	3.039	2.423	37.88	37.48	212	7.55	11.32	156	132.8
5 DP-6	0.914	1.118	0.102	4.898	3.036	2.868	2.438	85.88	85.48	488	17.21	25.81	361	304
6 DP-7	0.914	1.118	0.102	5.145	2.865	2.722	2.843	150	149.6	1081	30.11	45.17	859	592.6
7 DP-8	0.914	1.118	0.102	5.069	2.719	2.543	2.93	90	89.6	679	18.04	27.06	546	362.8
8 DP-8-1 9 EP-5	0.914	1.118	0.102	4.872	2.9 3.179	2.722	2.553	90	89,6	548	18.04	27.06	415	329
Total	U.814_	1.118	0.102	5.055	3.178	2.872	2.521	145 866	144.6	868 6380	29.1 174	43.66 261	653 5100	526.2 3440
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1 BP-3	1.219	1.473	0.127	4.82	1.735	1.599	3.74	93.6	93.2	1166	27.46	46.55	933	485.9
2 BP-4	1.219	1.473	0.127	4.711	1.595	1.564	3.718	20	19.6	243	5.78	9.79	194	101.8
3 BP-5-1	1.219	1.473	0.127	4.711	1.573	1.564	3.729	6	5.6	70	1.65	2.8	56	29.2
4 CP-11	1.219	1.473	0.127	5.03	2.531	2.403	3.15	87.49	87.09	837	25.66	43.5	619	402.7
5 CP-12 6 DP-10	1.219 1.219	1.473	0.127 0.127	4.82 4.778	2.399	2.217 2.101	3.099	93.6 90.6	93.2 90.2	873	27.46	46.55	640	426.2
7 DP-9	1.219	1.473	0.127	4.932	2.539	2.101	3.172	130.5	130.1	876 1223	26.58 38.33	45.05 64.98	650 898	419 595.6
8 EP-6	1.219	1.473	0.127	4.89	2.869	2.812	2.636	58	57.6	424	16.97	28.77	280	236.7
Total								580		5720	170	288	4270	2700
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	QUANTITY CALCULATION C	OVER SHEET	
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	P. Po rulvert 457min	Pay Item No. (BOQ)	2H-0103
Quantity Item	Lean concrete	Unit	12 ³

Volume of lean concrete was consider by multiplying section area by actual length, markolo base was taken into consideration.

References, Calculation Base and Revisions

See the item of excavation and disposal.

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Pipe Culvert集計

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	(m)	(m)	(m)	(m)	(m)	Y _{out} (m)	<u>H</u> (m)	(m)	Lao (m)	Vex (m3)	Vcs (m3)	Vlc (m3)	Vbf	Cmpct
1 :CP-1	0,457	0.584	0.064	5,55	3.599	3.545	2.312	17	16.6	67	1,46	1,47	(m3) 60	(m2) 48.1
2 GP-2	0.457	0.584	0.064	5,487	3.543	3.505	2.297	20	19.6	78	1.72	1.74	70	56.5
3 iCP-3	0.457	0.584	0.064	5.437	3.503	3.431	2.304	35	34.6	139	3,04	3,06	124	100
4 !CP-4 5 CP-4-1	0.457	0.584	0.064	5.537	3.429	3.391	2.461	20	19.6	88	1.72	1.74	80	59.7
5 CP-4-1 6 CP-5	0.457 0.457	0.584	0.064	5.487	3.469	3.431	2,371	20	19.6	83	1.72	1.74	75	58
7 CP-5-1	0.457	0.584	0.064	5.637 5.637	3.389 3.405	3.257 3.391	2.648 2.573	70	69.6	352	6.1	6.16	321	225
8 CP-7	0.457	0.584	0.064	5.682	2.891	2.824	3,158	8 35	7.6 34.6	37	0.67	0.68	34	24
9 CP-8-1	0.457	0.584	0.064	5,507	2.955	2.824	2.951	68	67.6	237 411	3.04 5.93	3.06 5.98	222	129.5
10 CP-8-1-1	0.457	0.584	0.064	5.55	3.019	2.957	2.896	30	29.6	175	2.6	2.62	381 162	239 103,1
11 ICP-8-2	0.457	0.584	0.064	5.507	2.995	2.957	2.865	20	19.6	114	1.72	1.74	106	67.7
12 CP-8-2-1	0.457	0.584	0.064	5.555	3.021	2.997	2.88	10	9.6	56	0.85	0.65	52	33.3
13 CP-8-3	0.457	0.584	0.064	5.507	3.069	2.997	2.808	35	34.6	194	3.04	3.06	179	117.4
14 CP-8-4 15 DP-1	0.457	0.584	0.064	5.507	3,095	3.071	2.758	10	9.6	52	0.85	0.85	48	32.1
16 IDP-2	0.457 0.457	0,584 0.584	0.064	5.875 5.35	4,997	4.253	1.584	129,19	128.79	281	11.29	11.39	224	279.3
17 DP~3	0.457	0.584	0.064	5.27	3,347 3,245	3.249 3.226	2.386 2.368	20.82 24.13	20.42	87	1.79	1.81	78	60.7
18 DP-4-1	0.457	0.584	0.064	5.34	3.247	3.226	2.437	21.75	23,73 21.35	100 94	2.08 1.88	2.1	90	70.1
19 DP-7-1	0.457	0.584	0.064	5.17	2.883	2.868	2.628	18.25	17.85	90	1.57	1.89 1.58	85	64.5 57.4
20 DP~9~1	0.457	0.584	0.064	5,015	2.746	2.543	2.704	150	149.6	784	13.11	13.23	82 718 -	491.9
21 DP-9-2	0.457	0.584	0.064	5.01	2.764	2.748	2.588	18.25	17.85	87	1.57	1.58	79	56.7
22 EP-1	0.457	0.584	0.064	6.015	4.097	4.003	2.299	20	19.6	79	1.72	1.74	71	56.6
23 EP-2	0.457	0.584	0.064	5.78	3.997	3.596	2.317	81.47	81.07	328	7.11	7.17	292	235.2
24 EP-2-1 25 EP-4-3	0.457	0.584	0.064	5.97	4.008	4.003	2.298	9.1	8.7	35	0.77	0.77	32	25,1
26 EP-4-4	0.457 0.457	0.584 0.584	0.064	5.785 6.195	4.887	4.176	1.587	142.69	142.29	312	12.47	12.58	249	309
27 EP-5-2	0.457	0.584	0.064	5.22	4.997 3.211	4.893	1.584	22	21.6	48	1.9	1.91	39	46.9
Total	<u> </u>	0.004	0.004	J.L.L	9.611	3.205	2.346	9.1 1,070	8.7	36	0.77	0.77	33	25.5
								1,070		4450	92.5	93,3	3990	3080
1 AP-1	0.61	0.762	0.076	5.522	2.644	2.61	3.311	20	19.6	157	2.69	3.01	143	79.9
2 AP-2	0.61	0.762	0.076	5.427	2.606	2.532	3.274	40	39.6	312	5.44	6.07	283	159.9
3 AP-3	0.61	0.762	0.076	5,332	2.528	2.484	3.242	26	25.6	198	3.52	3.92	179	102.6
4 AP-4	0.61	0.762	0.076	5.232	2.48	2.313	3.251	85.78	85.38	663	11.72	13.08	600	342.7
5 AP-5-1 6 AP-6-1	0.61	0.762	0.076	5.132	2.358	2.309	3.214	26	25.6	195	3.52	3.92	176	101.8
7 AP~6~2	0.61	0.762	0.076 0.076	4.928 4.928	2.182	2.138	3.184	26	25.6	192	3.52	3.92	173	101.1
8 AP-7-1	0.61	0.762	0.076	4.711	2.207 1.997	2.186 1.952	3.147	12.65	12.25	91	1.69	1.88	82	47.9
9 BP-1-1	0.61	0.762	0.076	5.332	2.129	2.085	3.152 3.641	26 26	25.6	189	3,52	3.92	170	100.2
10 IBP-2-1	0.61	0.762	0.076	5.132	1.958	1.914	3.612	26	25.6 25.6	241 238	3,52 3.52	3.92	222	112.8
11 IBP-3-1	0.61	0.762	0.076	4.928	1.782	1.738	3.584	26	25.6	235	3.52	3.92	219 216	112 111.3
12 CP-11-1	0.61	0.762	0.076	5.132	2.579	2.535	2.991	26	25.6	173	3.52	3.92	154	96.1
13 CP-12-1	0.61	0.762	0.076	4.928	2.447	2.403	2.919	26	25.6	167	3.52	3.92	148	94.3
14 CP-13-1	0.61	0.762	0.076	4.711	1.64	1.596	3.509	26	25.6	227	3.52	3.92	208	109.4
15 ICP-6 16 ICP-8	0.61	0.762 0.762	0.076	5.747	3.255	3.193	2.939	30	29.6	195	4.06	4.54	173	109.6
17 CP-9	0.61	0.762	0.076	5.42 5.332	2.82	2.754 2.706	3.049	35	34.6	242	4.75	5.3	216	131.9
18 DP-4	0.61	0.762	0.076	5.34	3.225	3.066	3.02 2.61	26 160	25.6	176	3.52	3.92	157	96.9
19 IDP-5-1	0.61	0.762	0.076	5.34	3.087	3.066	2.679	21.75	159.6 21.35	862 121	21.9 2.93	24.44 3.27	743	538.2
20 EP-3	0.61	0.762	0.076	5.46	3.59	3.321	2.42	55.01	54.61	261	7.5	8.37	105 221	73.5 173.8
21 IEP-4	0.61	0.762	0.076	5.275	3.314	3.184	2.442	27.3	26.9	131	3.69	4.12	111	86.2
22 EP-4-1	0.61	0,762	0.076	5.33	3.506	3.499	2.243	9.1	8.7	37	1.2	1.34	31	26.2
23 EP-4-2	0.61	0.762	0.076	5.38	4.172	4.008	1.706	5.43	5.03	14	0.69	0.78	11	12.5
24 EP-5-1 Total	0.61	0.762	0.076	5.22	3.201	3.184	2.443	15.3	14.9	73	2.05	2.29	62	47.8
locai	·							810		5390	110	122_	4810	2970
1 :AP-5	0.762	0.94	0.089	5.03	2.309	2.138	3.265	87.49	87.09	732	14.74	19.7	207	0000
2 BP-1	0.762	0.94	0.089	5.232	2.081	1,914	3.693	85.78	85.38	879	14.45	19.7	637 786	366.3 395.6
!Total								174		1620	29.2	39.1	1430	395.6 762
1 1 2 2										,,,,,			1700	102
1 AP-6	0.914	1.118	0.102	4.82	2.134	1.952	3.269	93.6	93.2	839	18.76	28.14	701	408.9
2 BP-2	0.914	1.118	0.102	5.03	1.91	1.739	3.697	87.49	87.09	956	17.53	26,3	827	419.4
3 CP-10 4 DP-5	0.914	1.118	0.102	5.232	2.702	2.535	3.105	85.78	85.38	708	17.19	25.78	581	360.6
5 DP-6	<u>0.914</u> 	1.118	0.102	4.983 4.898	3.065	3.039	2.423	37.88	37.48	212	7.55	11.32	156	132.8
6 DP-7	0.914	1.118	0.102	5.145	3.036 2.865	2.868	2.438	85.88	85.48	488	17.21	25.81	361	304
7 DP-8	0.914	1.118	0.102	5.069	2.719	2.543	2.843	150 90	149.6	1081	30.11	45.17	859	592.6
8 DP-8-1	0.914	1.118	0.102	4.872	2.9	2.722	2.553	90	89.6 89.6	879 548	18.04 18.04	27.06 27.06	546	362.8
9 EP-5	0.914	1.118	0.102	5.055	3.179	2.872	2.521	145	144.6	868	29.1	43.66	415 653	329 526.2
Total								866		6380	174	261	5100	3440
1 50 5			0.15=										2,00	0470
1 BP-3 2 BP-4	1.219	1.473	0.127	4.82	1.735	1.599	3.74	93.6	93.2	1166	27.46	46.55	933	485.9
3 BP-5-1	1.219 1.219	1.473	0.127	4.711	1.595	1.564	3.718	20	19.6	243	5.78	9.79	194	101.8
4 CP-11	1.219	1.473	0.127 0.127	4.711 5.03	1.573	1.564	3.729	6_	5.6	70	1.65	2.8	56	29.2
5 CP-12	1.219	1.473	0.127	4.82	2.531	2.403	3.15	87.49	87.09	837	25.66	43.5	619	402.7
6 DP-10	1.219	1.473	0.127	4,778	2.284	2.101	3.172	93.6 90.6	93.2 90.2	873	27.46	46.55	640	426.2
7 DP-9	1.219	1.473	0.127	4.932	2.539	2.288	3.105	130.5	130.1	876 1223	26.58 38.33	45.05 64.98	650	419
8 EP-6	1.219	1.473	0.127	4.89	2.869	2.812	2.636	58	57.6	424	16.97	28.77	898 280	595.6
Total								580		5720	170	288	4270	236.7 2700
L													-1210	2100

	QUANTITY CALCULATION C		ne en la companya de la companya de pode en el de la companya de
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	Pite culvert 457mm	Pay Item No. (BOQ)	24-0/04
Quantity Item	Installation drainage pipe	Unit	

Leigth of drainage pipe was computed for size suivert introduce

References, Calculation Base and Revisions

See the item of excavation and disposal.

(=1-0/01)

Rev	Prepa	red	No. of	Checked		Revi	ewed	Superseded	
	by	Date	Pages	by	Date	by	Date	by Calc No.	
0	Kada Geria		-	Mr. Iouma		Mr. Ando			
1									
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Pipe Culvert樂計

r	1	·											C Outroit;	14.01
1	Din	Dout	t	<u>0</u>	Yin	Yout	Н	L	Lac	Vex ;	Vcs	VIG	Vbf	Cmpct
1 100 1	(m)	(m)	(m)	<u>, (m)</u>	(m)	(m)	(m)	(m)	(m)	(m3)	(m3)	_(m3)	(m3)	(m2)
1 CP-1	0.457	0,584	0.064	5.55	3.599	3.545	2.312	17	16.6	67	1.46	1,47	60	48.1
2 CP-2	0.457	0.584	0.064	5,487	3.543	3.505	2.297	20	19.6	78	1.72	1.74	70	56.5
3 CP-3	0.457	0.584	0.064	5.437	3.503	3,431	2.304	35	34.6	139	3.04	3.06	124	100
4 CP-4	0.457	0.584	0.064	5,537	3.429	3,391	<u> 2.461</u>	20	19.6	88	1.72	1.74	80	59.7
5 CP-4-1	0.457	0.584	0,064	5.487	3.469	3.431	2.371	20	19.6	83	1.72	1.74	75	58
6 CP-5	0.457	0.584	0.064	5.637	3.389	3.257	2.648	70	69.6	352	6.1	6.16	321	225
7 CP-5-1	0.457	0.584	0.064	5.637	3.405	3.391	2.573	. 8	7.6	37	0.67	0.68	34	24
8 CP-7	0.457	0.584	0.064	5.682	2.891	2.824	3,158	35	34.6	237	3.04	3.06	222	129.5
9 CP-8-1	0.457	0.584	0.064	5.507	2.955	2.824	2.951	68	67.6	411	5.93	5.98	381	239
10 CP-8-1-1	0.457	0.584	0.064	5,55	3.019	2.957	2,896	30	29.6	175	2.6	2.62	162	103.1
11 CP-8-2	0.457	0.584	0.064	5.507	2.995	2.957	2.865	20	19.6	114	1.72	1.74	106	67.7
12 CP-8-2-1	0.457	0.584	0.064	5.555	3.021	2.997	2.88	10	9.6	56	0.85	0.85	52	33.3
13 CP-8-3	0.457	0.584	0.064	5.507	3.069	2.997	2.808	35	34.6	194	3.04	3.06	179	117.4
14 CP-8-4	0.457	0.584	0.064	5.507	3.095	3.071	2.758	10	9.6	52	0.85	0.85	48	32.1
15 DP~1	0.457	0.584	0.064	5.875	4.997	4.253	1.584	129.19	128.79	281	11.29	11.39	224	279.3
16 DP-2	0.457	0.584	0.064	5.35	3.347	3.249	2.386	20.82	20.42	87	1.79	1.81	78	60.7
17 DP-3	0.457	0.584	0.064	5.27	3.245	3.226	2.368	24.13	23.73	100	2.08	2.1	90	70.1
18 DP~4~1	0.457	0.584	0.064	5.34	3.247	3.226	2.437	21.75	21.35	94	1.88			
19 DP-7-1	0.457	0.584	0.064	5.17	2.883	2.868	2.628	18.25	17.85	90	1.57	1.89	85	64.5
20 DP-9-1	0.457	0.584	0.064	5.015	2.746	2.543	2.704	150	149.6			1.58	82	57.4
21 DP-9-2	0.457	0.584	0.064	5.01	2.764	2.748	2.588	18.25		784	13.11	13.23	718	491.9
22 EP1	0.457	0.584	0.064	6.015	4.097	4.003	2.299	20	17.85	87	1.57	1.58	79	56.7
23 EP-2	0.457	0.584	0.064	5.78	3.997	3.596	2.317	81.47	19.6	79	1.72	1.74	71	56.6
24 EP-2-1	0,457	0.584	0.064	5.97	4.008	4.003	2.298		81.07	328	7.11	7.17	292	235.2
25 EP-4-3	0.457	0.584	0.064	5.785	4.887	4.176	1.587	9.1	8.7	35	0.77	0.77	32	25.1
26 EP-4-4	0.457	0.584	0.064	6.195		4.176		142.69	142.29	312	12.47	12.58	249	309
27 EP-5-2	0.457	0.584	0.064		4.997		1.584	22	21.6	48	1.9	1.91	39	46.9
Total	V.701	V.J04	0.004	5,22	3.211	3.205	2.346	9.1	8.7	36	0.77	0.77	33	25.5
10181	 	 -						1,070		4450	92.5	93.3	3990	3080
1 AP-1	0.61	0.762	0.076	5.522	2644	261	2 21 1					·		
2 AP-2	0.61	0.762	0.076	5.427	2.644 2.606	2.61 2.532	3.311	20	19.6	157	2.69	3.01	143	79.9
3 AP-3	0.61	0.762	0.076	5.332			3.274	40	39.6	312	5.44	6.07	283	159.9
4 AP-4	0.61	0.762	0.076		2.528	2.484	3.242	26	25.6	198	3.52	3.92	179	102.6
5 AP-5-1	0.61	0.762		5.232	2.48	2.313	3.251	85.78	85.38	663	11.72	13.08	600	342.7
8 AP-6-1	0.61		0.076	5,132	2.358	2.309	3.214	26	25.6	195	3.52	3.92	176	101.8
7 AP-6-2	0.61	0.762 0.762	0.076	4.928	2.182	2.138	3.184	26	25.6	192	3,52	3.92	173	101.1
8 AP-7-1			0.076	4.928	2.207	2.186	3.147	12.65	12.25	91	1.69	1.88	82	47.9
9 BP-1-1	0.61	0.762	0.076	4.711	1.997	1.952	3.152	26	25.6	189	3.52	3.92	170	100.2
	0.61	0.762	0.076	5.332	2.129	2.085	3.641	26	25.6	241	3.52	3.92	222	112.8
10 BP-2-1	0.61	0.762	0.076	5.132	1.958	1.914	3.612	26	25.6	238	3.52	3.92	219	112
11 BP-3-1	0.61	0.762	0.076	4.928	1.782	1.738	3.584	26	25.6	235	3.52	3.92	216	111.3
12 CP-11-1	0.61	0.762	0.076	5.132	2.579	2.535	2.991	26	25.6	173	3.52	3.92	154	96.1
13 CP-12-1	0.61	0.762	0.076	4.928	2.447	2.403	2.919	26	25.6	167	3.52	3.92	148	94.3
14 CP-13-1	0.61	0.762	0.076	4.711	1.64	1.596	3.509	26	25.6	227	3.52	3.92	208	109.4
15 CP-6	0.61	0.762	0.076	_ 5.747	3.255	3.193	2.939	30	29.6	195	4.06	4.54	173	109.6
16 CP~8	0.61	0.762	0.076	5.42	2.82	2.754	3.049	35	34.6	242	4.75	5.3	216	131.9
17 CP-9	0.61	0.762	0.076	5.332	2.75	2.706	3.02	26	25.6	176	3.52	3.92	157	96.9
18 DP-4	0.61	0.762	0.076	5.34	3.225	3.066	2.61	160	159.6	862	21.9	24.44	743	538.2
19 IDP-5-1	0.61	0.762	0.076	5.34	3.087	3.066	2.679	21.75	21,35	121	2.93	3.27	105	73.5
20 EP-3	0.61	0.762	0.076	5.46	3.59	3.321	2.42	55.01	54.61	261	7.5	8.37	221	173.8
21 EP-4	0.61	0.762	0.076	5.275	3.314	3.184	2.442	27.3	26.9	131	3.69	4.12	111	86.2
22 EP-4-1	0.61	0.762	0.076	5.33	3.506	3,499	2.243	9.1	8.7	37	1.2	1.34	31	26.2
23 EP-4-2	0.61	0.762	0.076	5.38	4.172	4.008	1.706	5.43	5.03	14	0.69	0.78	11	12.5
24 IEP-5-1	0.61	0.762	0.076	5.22	3.201	3.184	2.443	15.3	14.9	73	2.05	2.29	62	47.8
Total		···						810		5390	110	122	4810	2970
												. 122	טוטד	V210
1 AP-5	0.762	0.94	0.089	5.03	2.309	2.138	3.265	87.49	87.09	732	14.74	19.7	637	366.3
2 BP-1	0.762	0.94	0.089	5.232	2.081	1.914	3.693	85.78	85.38	879	14.45	19.31	786	395.6
Total								174		1620	29.2	39.1	1430	762
1 1 2 2	<u> </u>	4 4 2 =												
1 AP-6	0.914	1.118	0.102	4.82	2.134	1.952	3.269	93.6	93.2	839	18.76	28.14	701	408.9
2 BP-2	0.914	1.118	0.102	5.03	1.91	1.739	3.697	87.49	87.09	956	17.53	26.3	827	419.4
3 ICP-10	0.914	1.118	0.102	5.232	2.702	2.535	3.105	85.78	85.38	708	17.19	25.78	581	360.6
4 DP~5	0.914	1.118	0.102	4.983	3.065	3.039	2.423	37.88	37.48	212	7.55	11.32	156	132.8
5 DP-6	0.914	1.118	0.102	4.898	3.036	2.868	2.438	85.88	85.48	488	17.21	25.81	361	304
6 DP-7	0.914	1.118	0.102	5.145	2.865	2.722	2.843	150	149.6	1081	30.11	45.17	859	592.6
7 DP-8	0.914	1.118	0.102	5.069	2.719	2.543	2.93	90	89.6	679	18.04	27.06	546	362.8
8 DP-8-1	0.914	1.118	0.102	4.872	2.9	2.722	2.553	90	89.6	548	18.04	27.06	415	329
9 EP-5	0.914	1.118	0.102	5.055	3.179	2.872	2.521	145	144.6	868	29.1	43.66	653	526.2
Total								866	1	6380	174	261	5100	3440
1 BP-3	1010	4											7100	0770
	1.219	1.473	0.127	4.82	1.735	1.599	3.74	93.6	93.2	1166	27.46	46.55	933	485.9
2 BP-4	1.219	1.473	0.127	4.711	1.595	1.564	3.718	20	19.6	243	5.78	9.79	194	101.8
3 BP-5-1	1.219	1.473	0.127	4.711	1.573	1.564	3.729	6	5.6	70	1.65	2.8	56	29.2
4 CP-11	1.219	1.473	0.127	5.03	2.531	2.403	3.15	87.49	87.09	837	25.66	43.5	619	402.7
5 CP-12	1.219	1.473	0.127	4.82	2.399	2.217	3.099	93.6	93.2	873	27.46	46.55	640	426.2
6 DP-10	1.219	1.473	0.127	4.778	2.284	2.101	3.172	90.6	90.2	876	26.58	45.05	650	420.2
7 DP-9	1.219	1.473	0.127	4.932	2.539	2.288	3.105	130.5	130.1	1223	38.33	64.98	898	595.6
8 EP-6	1.219	1.473	0.127	4.89	2.869	2.812	2.636	58	57.6	424	16,97	28.77	280	
Total								580		5720	170	288		236.7
L								_ 		3120	1/0	∠66	4270	2700
					-									

	QUANTITY CALCULATION COVER SHEET										
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001								
Work Section Title	Pipe culvert 457mm	Pay Item No. (BOQ)	24-010tol								
Quantity Item	Back III sand	Unit	₩3 ·								

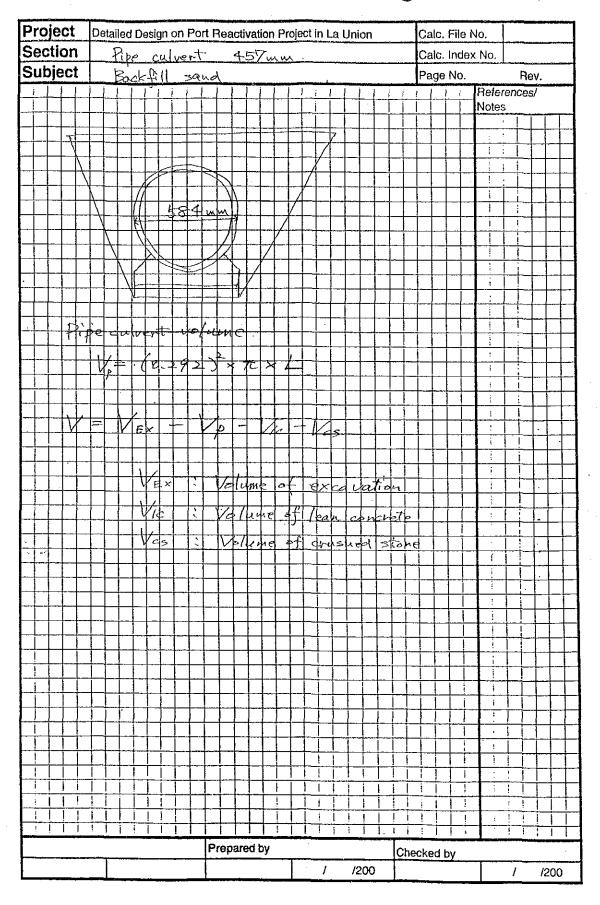
Volume of backfil sand was computed by excavation volume minus pipe culvert volume, lean concrete volume and crushed stone volume.

References, Calculation Base and Revisions

See the item of excavation and disposal.

Rev	Prepa	red	No. of	Checked		Revie	ewed	Superseded
. 10 7	by	Date	Pages	by	Date	by	Date	by Calc No.
0	Kola Goda SA			Mr. Journa		Mr. Ando		
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® NIPPON KOEI CO, LTD.



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1	D _{in}	Dout	t	, <u>G</u>	Ym	Yout	Ħ	l.	Lao	Vex	Vcs	Vic	Vbf	Cmpct
1 CP~1	(m) 0.457	(m) 0.584	(m) 0.064	(m) 5.55	(m)	(m)	(m)	(m)	(m)	(m3)	(m3)	(m3)	(m3)	(m2)
2 CP~2	0.457	0.584	0.064	5.487	3,599 3,543	3,545 3,505	2.312 2.297	17 20	16.6 19.6	67	1.46	1.47	60	48.1
3 (CP~3	0.457	0.584	0.064	5.437	3.503	3,431	2.304	35	34.6	78 139	1.72 3.04	1.74	70	56.5
4 .CP4	0.457	0.584	0.064	5.537	3.429	3,391	2.461	20	19.6	88	1.72	3.06 1.74	124	100 59.7
5 : OP-4-1	0.457	0.584	0.064	5.487	3.469	3,431	2.371	20	19.6	83	1.72	1.74	80 75	59.7 58
6 CP-5	0.457	0.584	0.064	5.637	3.389	3,257	2.648	70	69.6	352	6.1	6.16	321	225
7 ICP-5-1	0.457	0.584	0.064	5.637	3,405	3,391	2.573	8	7.6	37	0.67	0.10	34	24
8 CP-7	0.457	0.584	0.064	5,682	2.891	2,824	3.158	35	34.6	237	3.04	3.06	222	129.5
9 ICP-8-1	0.457	0.584	0.064	5.507	2.955	2.824	2.951	68	67.6	411	5.93	5.98	381	239
10 ICP-8-1-1	0.457	0.584	0.064	5,55	3.019	2.957	2.896	30	29.6	175	2,6	2.62	162	103.1
11 ICP-8-2	0.457	0.584	0.064	5.507	2.995	2.957	2,865	20	19.6	114	1.72	1.74	106	67.7
12 ICP-8-2-1	0.457	0.584	0.064	5.555	3,021	2,997	2.88	10	9.6	56	0.85	0.85	52	33.3
13 ICP-8-3	0.457	0.584	0.064	5.507	3,069	2,997	2.808	35	34.6	194	3.04	3.06	179	117.4
14 ICP-8-4	0.457	0.584	0.064	5.507	3.095	3.071	2.758	10	9.6	52	0.85	0.85	48	32.1
15 DP-1 16 DP-2	0.457	0.584	0.064	5.875	4.997	4.253	1.584	129.19	128.79	281	11.29	11.39	224	279.3
17 DP-3	0.457	0.584	0.064	5,35	3.347	3.249	2.386	20.82	20.42	87	1.79	1.81	78	60.7
18 IDP-4-1	0.457	0.584	0.064	5.27	3.245	3.226	2.368	24.13	23.73	100	2.08	2.1	90	70.1
19 IDP-7-1	0.457 0.457	0.584 0.584	0.064	5.34	3.247	3.226	2.437	21.75	21.35	94	1.88	1.89	85	64.5
20 IDP-9-1	0.457	0.584	0.064	5,17 5,015	2.883 2.746	2.868	2.628	18.25	17.85	90	1.57	1.58	82	57.4
21 DP-9-2	0.457	0.584	0.064	5,013	2.764	2.543 2.748	2,704 2.588	150 18.25	149,6	784	13.11	13.23	718	491.9
22 EP-1	0.457	0.584	0.064	6.015	4.097	4.003	2.299		17,85	87	1.57	1.58	79	56.7
23 EP-2	0.457	0.584	0.064	5.78	3.997	3.596	2.239	20 81.47	19.6 81.07	79 328	1.72 7.11	1.74	71	56.6
24 IEP-2-1	0.457	0.584	0.064	5.97	4.008	4,003	2.298	9.1	8.7	35	0.77	7.17 0.77	292 32	235.2 25.1
25 iEP-4-3	0.457	0.584	0.064	5.785	4.887	4.176	1.587	142.69	142.29	312	12.47	12.58	249	309
26 IEP-4-4	0.457	0.584	0.064	6.195	4.997	4.893	1.584	22	21.6	48	1.9	1.91	39	46.9
27 EP-5-2	0.457	9.584	0.064	5.22	3.211	3,205	2.346	9.1	8.7	36	0.77	0.77	33	25,5
! Total								1,070		4450	92,5	93,3	3990	3080
!													· ·	1
1 IAP-1 2 IAP-2	0.61	0.762	0.076	5.522	2.644	2.61	3.311	20	19,6	157	2.69	3.01	143	79.9
3 AP-3	0.61 0.61	0.762 0.762	0.076	5.427	2.606	2.532	3.274	40	39.6	312	5.44	6.07	283	159.9
4 IAP-4	0.61	0.762	0.076	5.332 5.232	2.528 2.48	2.484	3.242	26	25.6	198	3.52	3.92	179	102.6
5 AP-5-1	0.61	0.762	0.076	5.132	2.358	2.309	3.251 3.214	85.78 26	85.38 25.6	663 195	11.72	13.08	600	342,7
6 AP-6-1	0.61	0.762	0.076	4.928	2.182	2.138	3.184	26	25.6	193	3.52 3.52	3.92	176	101.8
7 IAP-6-2	0.61	0.762	0.076	4.928	2.207	2.186	3.147	12.65	12.25	91	1.69	3.92 1.88	173 82	101.1 47.9
8 AP-7-1	0.61	0.762	0.076	4.711	1.997	1.952	3.152	26	25.6	189	3.52	3.92	170	100.2
9 BP-1-1	0.61	0.762	0.076	5.332	2.129	2.085	3.641	26	25.6	241	3.52	3.92	222	112.8
10 !BP-2-1	0.61	0.762	0.076	5.132	1.958	1.914	3.612	26	25.6	238	3.52	3.92	219	112
11 iBP-3-1	0.61	0.762	0.076	4.928	1.782	1.738	3.584	26	25.6	235	3.52	3.92	216	111.3
12 ICP-11-1	0.61	0.762	0.076	5.132	2.579	2.535	2.991	26	25.6	173	3.52	3.92	154	96.1
13 :CP-12-1 14 :CP-13-1	0.61	0.762	0.076	4.928	2.447	2.403	2.919	26	25.6	167	3.52	3.92	148	94.3
15 iCP-6	0.61_ 0.61	0.762 0.762	0.076	4.711	1.64	1.596	3.509	26	25.6	227	3.52	3.92	208	109.4
16 CP-8	0.61	0.762	0.076	5.747 5.42	3.255 2.82	3.193 2.754	2.939	30	29.6	195	4.06	4.54	173	109.6
17 :CP-9	< 0.01	0.762	0.076	5.332	2.75	2.706	3.049	35 26	34.6 25.6	242	4.75	5.3	216	131.9
18 .DP-4	0.61	0.762	0.076	5.34	3.225	3.066	2.61	160	159,6	176 862	3.52 21.9	3.92 24.44	157 743	96.9 538.2
19 DP-5-1	0.61	0.762	0.076	5.34	3.087	3.066	2.679	21.75	21.35	121	2.93	3.27	105	73.5
20 EP-3	0.61	0.762	0.076	5.46	3.59	3.321	2.42	55.01	54.61	261	7.5	8.37	221	173.8
21 EP-4	0.61	0.762	0.076	5.275	3.314	3.184	2.442	27.3	26.9	131	3.69	4.12	111	86.2
22 EP-4-1	0.61	0,762	0.076	5.33	3.506	3.499	2.243	9.1	8.7	37	1.2	1.34	31	26.2
23 EP-4-2	0.61	0.762	0.076	5.38	4.172	4.008	1.706	5,43	5.03	14	0.69	0.78	11	12.5
24 EP-5-1	0.61	0.762	0.07 <u>6</u>	5.22	3.201	3.184	2.443	15.3	14.9	73	2.05	2.29	62	47.8
¡Total								810		5390	110	122	4810	2970
1 AP-5	0.762	004	0.000	F 02	0.000									
2 BP-1	0.762	0.94	0.089	5.03 5.232	2.309	2.138	3.265	87.49	87.09	732	14.74	19.7	637	366.3
Total	3.,02	0.34	5.005	J. 2.32	4.001	1.914	3.693	85.78 174	85.38	879 1620	14.45	19.31	786	395.6
1					:			1/4		1920	29.2	39.1	1430	762
1 AP-6	0.914	1.118	0.102	4.82	2.134	1.952	3.269	93.6	93.2	839	18.76	28.14	701	408.9
2 BP-2	0.914	1.118	0.102	5.03	1.91	1.739	3.697	87.49	87.09	956	17.53	26.3	827	419.4
3 CP-10	0.914	1.118	0.102	5.232	2.702	2.535	3.105	85,78	85.38	708	17.19	25.78	581	360.6
4 DP-5	0.914	1.118	0.102	4.983	3.065	3.039	2.423	37.88	37,48	212	7.55	11.32	156	132.8
5 DP-6	0.914	1.118	0.102	4.898	3.036	2.868	2.438	85.88	85.48	488	17.21	25.81	361	304
6 DP-7	0.914	1.118	0.102	5.145	2.865	2.722	2.843	150	149.6	1081	30,11	45.17	859	592.6
7 DP-8 8 DP-8-1	0.914	1.118	0.102	5.069	2.719	2.543	2.93	90	89.6	679	18.04	27.06	546	362.8
9 EP-5	0.914	1,118	0.102	4.872	2.9	2.722	2.553	90	89.6	548	18.04	27.06	415	329
Total	0.914	1.118	0.102	5.055	3.179	2.872	2.521	145	144.6	868	29.1	43,66	653	526.2
. 5001					· ·		<u>-</u> -	866		6380	174	261	<u>5</u> 100	3440
1 BP-3	1.219	1.473	0.127	4.82	1.735	1.599	3.74	93.6	93.2	1166	97.40	Apric		405.0
2 BP-4	1.219	1.473	0.127	4,711	1.595	1.564	3.718	20.	19.6	243	27.46 5.78	46.55	933	485.9
3 BP~5~1	1.219	1.473	0.127	4.711	1.573	1.564	3.729	6	5.6	70	1.65	9,79 2.8	194 56	101.8 29.2
4 CP-11	1.219	1.473	0.127	5.03	2.531	2.403	3.15	87.49	87.09	837	25.66	43.5	619	402.7
5 CP-12	1.219	1.473	0.127	4.82	2.399	2.217	3.099	93.6	93.2	873	27.46	46.55	640	426.2
6 DP-10 7 DP-9	1.219	1.473	0.127	4.778	2.284	2.101	3.172	90.6	90.2	876	26.58	45.05	650	419
7 DP-9 8 EP-6	1.219	1.473	0.127	4.932	2.539	2.288	3.105	130.5	130.1	1223	38.33	64.98	898	595.6
Total	1.219	1.473	0.127	4.89	2.869	2.812	2.636	58	57.6	424	16.97	28,77	280	236.
Ç						 -		580	-	5720	170	288	4270	2700
						~								

	QUANTITY CALCULATION C	OVER SHEET	بين حديث ويتفاد والمساور والمس
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	Pipe culvert 457mm	Pay Item No. (BOQ)	과I-010502
Quantity Item	Comportion	Unit	w² · ·

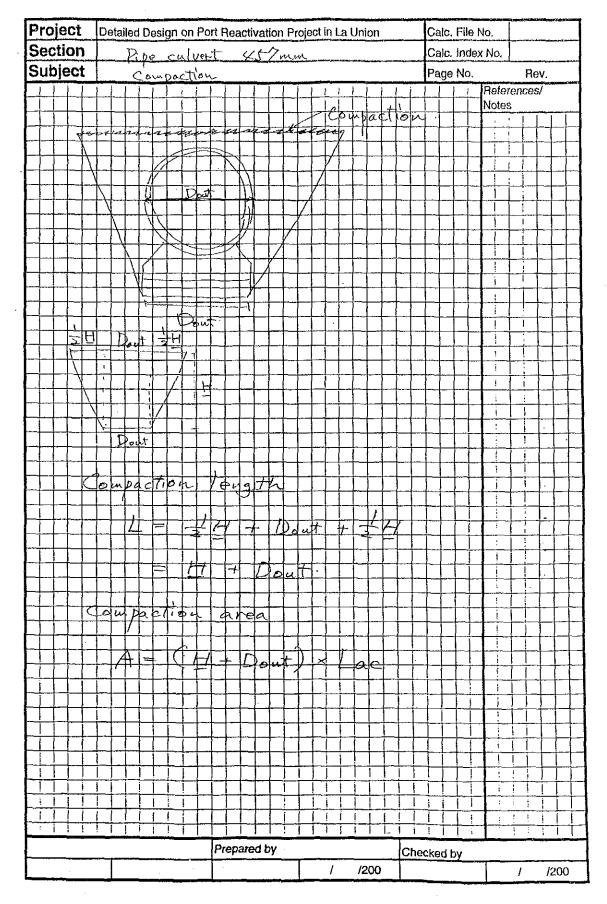
Area of compaction was computed by multiplying compaction length by actual length.

References, Calculation Base and Revisions

See the item of excavation and disposal

Rev	Prepa	ıred	No. of	No. of Checked		Revie	Superseded		
	by	Date	Pages	by	Date	by	Date	by Calc No.	
0	Kola Gove			Mr. Tnuma		Mr. Ando			
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(I) NIPPON KOEI CO.,LTD.



Pipe Culvert集計

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Ì		D _{in}	Dout	t	<u>G</u>	Yin	Yout	H	L '	Lac	Vex	Vos	Vlc	Vbf	Cmpot
1 iCP-1		(m) 0.457	(m) 0.584	(m) 0.064	(m) 5.55	(m) 3.599	(m) 3.545	(m) 2.312	(m) 17	(m)	(m3)	(m3)	(m3) ¹	(m3)	(m2)
2 QP-2		0.457	0.584	0.064	5,487	3.543	3,505	2.297	20	16.6 19.6	<u>67</u>	1.46 1.72	1.47	60 70	48.1 56.5
3 CP-3	3	0.457	0.584	0.064	5,437	3.503	3.431	2.304	35	34.6	139	3.04	3.06	124	100
4 CP-4	-	0.457	0.584	0.064	5,537	3,429	3.391	2.461	20	19.6	88	1.72	1.74	80	59.7
5 CP-4		0.457	0.584	0.064	5.487	3.469	3.431	2.371	20	19.6	83	1.72	1,74	75	58
6 CP-5 7 CP-5		0.457 0.457	0.584	0.064	5.637	3.389	3.257	2.648	70	69.6	352	6,1	6.16	321	225
8 CP-7		0.457	0.584	0.064	5.637 5.682	3.405 2.891	3.391 2.824	2.573 3.158	8 35	7.6	37	0.67	0.68	34	24
9 CP-8		0.457	0.584	0.064	5.507	2.955	2.824	2.951	68	34.6 67.6	237 411	3.04 5.93	3.06 5.98	222 381	129.5 239
10 CP-8		0.457	0.584	0.064	5.55	3.019	2,957	2.896	30	29.6	175	2.6	2.62	162	103.1
11 CP-8		0.457	0.584	0.064	5.507	2.995	2.957	2.865	20	19.6	114	1.72	1.74	106	67.7
12 CP-8		0.457	0.584	0.064	5.555	3.021	2.997	2.88	10	9.6	56	0.85	0.85	52	33.3
13 CP-8 14 CP-8		0.457 0,457	0.584	0.064	5,507	3.069	2.997	2.808	35	34.6	194	3,04	3.06	179	117.4
15 DP-1		0,457	0.584	0.064	5.507 5.875	3.095 4.997	3.071 4.253	2.758 1.584	10 129.19	9.6 128.79	52	0.85	0.85	48	32.1
16 DP-2		0,457	0.584	0.064	5.35	3.347	3.249	2.386	20.82	20.42	281 87	11,29	11.39	224 78	279.3 60.7
17 DP-3		0.457	0.584	0.064	5.27	3.245	3.226	2.368	24.13	23.73	100	2.08	2.1	90	70.1
18 DP-4		0.457	0.584	0.064	5.34	3.247	3.226	2.437	21.75	21.35	94	1.88	1.89	85	64.5
19 DP-7 20 DP-9		0.457	0.584	0.064	5.17	2.883	2.868	2.628	18,25	17.85	90	1.57	1.58	82	57.4
21 DP-9		0.457 0.457	0.584	0.064	5.015	2.746	2.543	2.704	150	149.6	784	13.11	13.23	718	491.9
22 EP-1		0.457	0.584	0.064	5.01 6.015	2.764 4.097	2.748 4.003	2.588 2.299	18.25 20	17.85 19.6	87	1.57	1.58	79	56.7
23 EP-2		0.457	0.584	0.064	5.78	3.997	3.596	2.317	81.47	81.07	79 328	1.72 7,11	1.74 7.17	71 292	56.6 235.2
24 EP~2	2-1	0.457	0.584	0.064	5,97	4.008	4.003	2.298	9.1	8.7	35	0.77	0.77	32	25.1
25 EP-4		0.457	0.584	0.064	5.785	4.887	4.176	1,587	142.69	142.29	312	12.47	12.58	249	309
26 EP-4		0.457	0.584	0.064	6.195	4.997	4.893	1,584	22	21.6	48	1.9	1.91	39	46.9
27 EP-5 Total		0.457	0.584	0.064	5.22	3.211	3.205	2.346	9.1	8.7	36	0.77	0,77	33	25.5
- ivial	<u>' </u>		<u></u>						1,070		4450	92.5	93.3	3990	3080
1 AP-1		0,61	0.762	0.076	5.522	2.644	2.61	3.311	20	19.6	157	2.69	3.01	143	79.9
2 AP~2		0.61	0.762	0.076	5.427	2.606	2.532	3.274	40	39.6	312	5.44	6.07	283	159.9
3 AP~3		0.61	0.762	0.076	5.332	2.528	2.484	3.242	26	25.6	198	3.52	3.92	179	102.6
4 AP-4 5 AP-5		0.61	0.762	0.076	5.232	2.48	2.313	3.251	85.78	85.38	663	11.72	13.08	600	342.7
6 AP-6		0.61	0.762	0.076 0.076	5.132 4.928	2.358 2.182	2.309	3.214 3.184	26	25.6	195	3,52	3.92	176	101.8
7 AP-6		0.61	0.762	0.076	4.928	2.207	2.186	3.147	26 12.65	25.6 12.25	192 91	3.52	3.92	173	101.1
8 AP-7		0.61	0.762	0.076	4.711	1.997	1.952	3.152	26	25.6	189	1.69 3.52	1.88 3.92	82 170	47.9 100.2
9 BP-1		0.61	0.762	0.076	5.332	2.129	2.085	3,641	26	25.6	241	3.52	3.92	222	112.8
10 BP-2		0.61	0.762	0.076	5.132	1.958	1.914	3.612	26	25.6	238	3.52	3.92	219	112
11 BP-3 12 CP-1		0.61	0.762	0.076	4.928	1.782	1,738	3.584	26	25,6	235	3.52	3.92	216	111.3
13 CP-1		0.61	0.762	0.076	5,132 4,928	2.579 2.447	2.535 2.403	2.991 2.919	26 26	25.6	173	3.52	3.92	154	96.1
14 CP-1		0.61	0.762	0.076	4.711	1.84	1.596	3.509	26	25.6 25.6	167 227	3.52	3.92	148 208	94.3
15 CP-6		0.61	0.762	0.076	5,747	3.255	3.193	2.939	30	29.6	195	4.06	3.92 4.54	173	109.4 109.6
16 CP-8		0.61	0.762	0.076	5.42	2.82	2.754	3.049	35	34.6	242	4.75	5.3	216	131.9
17 ICP-9 18 IDP-4		0.61	0.762	0.076	5.332	2.75	2.706	3.02	26	25.6	176	3.52	3.92	157	96.9
19 DP-5		0.61	0.762	0.076 0.076	5.34 5.34	3.225	3.066	2.61	160	159.6	862	21.9	24.44	743	538.2
20 EP-3		0.61	0.762	. 0.076	5.46	3.087 3.59	3.066 3.321	2.679 2.42	21.75 55.01	21.35 54.61	121	2.93	3.27	105	73.5
21 EP-4		0.61	0.762	0.076	5.275	3.314	3.184	2.442	27.3	26.9	261 131	7.5 3.69	8.37 4.12	221 111	173.8 86.2
22 EP-4		0.61	0.762	0.076	5.33	3.506	3.499	2.243	9.1	8.7	37	1.2	1.34	31	26.2
23 IEP-4		0.61	0.762	0.076	5.38	4.172	4.008	1.706	5.43	5.03	14	0.69	0.78	11	12.5
24 EP-5 Total		0.61	0.762	0.076	5.22	3.201	3.184	2.443	15.3	14.9	73	2.05	2.29	. 62	47,8
iviai	-								810		5390	110	122	4810	2970
1 AP-5	5	0.762	0.94	0.089	5.03	2.309	2.138	3.265	87.49	87.09	732	14.74	19.7	637	366.3
2 BP-1		0.762	0.94	0.089	5.232	2.081	1.914	3.693	85.78	85.38	879	14.74	19.7	786	395.6
Total	1								174		1620	29.2	39.1	1430	762
1 AP-6		0.014	1 110	0.100	400	0.404	1050	0.550							
2 BP-2		0.914	1.118	0.102	4.82 5.03	2.134 1.91	1.952	3.269	93.6	93.2	839	18.76	28.14	701	408.9
3 CP-1		0.914	1.118	0.102	5.232	2.702	1.739 2.535	3.697 3.105	87.49 85.78	87.09 85.38	956	17.53	26.3	827	419.4
4 DP-5		0.914	1.118	0.102	4.983	3.065	3.039	2.423	37.88	37.48	708 212	17.19 7.55	25.78 11.32	581 156	360,6 132.8
5 DP-6		0.914	1.118	0.102	4.898	3.036	2.868	2.438	85.88	85.48	488	17.21	25.81	361	304
6 DP-7		0.914	1.118	0.102	5.145	2.865	2.722	2.843	150	149.6	1081	30,11	45.17	859	592.6
7 DP-8 8 DP-8		0.914	1.118	0.102	5.069	2.719	2.543	2.93	90	89.6	679	18.04	27.06	546	362.8
9 EP-5		0.914	1.118	0.102	4.872 5.055	2.9 3.179	2.722	2.553 2.521	90 145	89.6	548	18.04	27.06	415	329
Total				,	0.033	0.113	2.014	<u> </u>	866	144.6	868 6380	29.1 174	43.66	653 5100	526.2 3440
											0300	1/4	261	5100	3440
1 BP-3		1.219	1.473	0.127	4.82	1.735	1.599	3.74	93.6	93.2	1166	27.46	46.55	933	485.9
2 BP-4		1.219	1.473	0.127	4.711	1.595	1.564	3.718	20	19.6	243	5.78	9.79	194	101.8
3 BP-5 4 CP-1		1.219 1.219	1.473	0.127 0.127	4.711	1.573	1.564	3.729	6	5.6	70	1.65	2.8	56	29.2
5 CP-1		1.219	1.473	0.127	5.03 4.82	2.531	2.403	3.15	87.49	87.09	837	25.66	43.5	619	402.7
6 DP-1		1.219	1.473	0.127	4.778	2.284	2.101	3.172	93.6 90.6	93.2 90.2	873	27.46	46.55	640	426.2
7 DP-9	9	1.219	1.473	0.127	4.932	2.539	2.288	3.105	130.5	130.1	876 1223	26.58 38.33	45.05 64.98	650 898	419 595.6
8 EP-6	$\overline{}$	1.219	1.473	0.127	4.89	2.869	2.812	2.636	58	57.6	424	16.97	28.77	280	236.7
Total	<u>'</u>								580		5720	170	288	4270	2700
L		<u></u>													

	QUANTITY CALCULATION C	OVER SHEET	
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	PR culvert 610 mm	Pay Item No. (BOQ)	2H-0201
Quantity Item	Excavation and Disposal	Unit	м ³ · ·

- 1. Average level of inlet level and outlet level
- 2. Average level minus base thickness
- 3. Average ground level
- 4 Calculation of effective height.
- 5. Calculation of Area
- 6. calculation of volume: Area time length

References, Calculation Base and Revisions

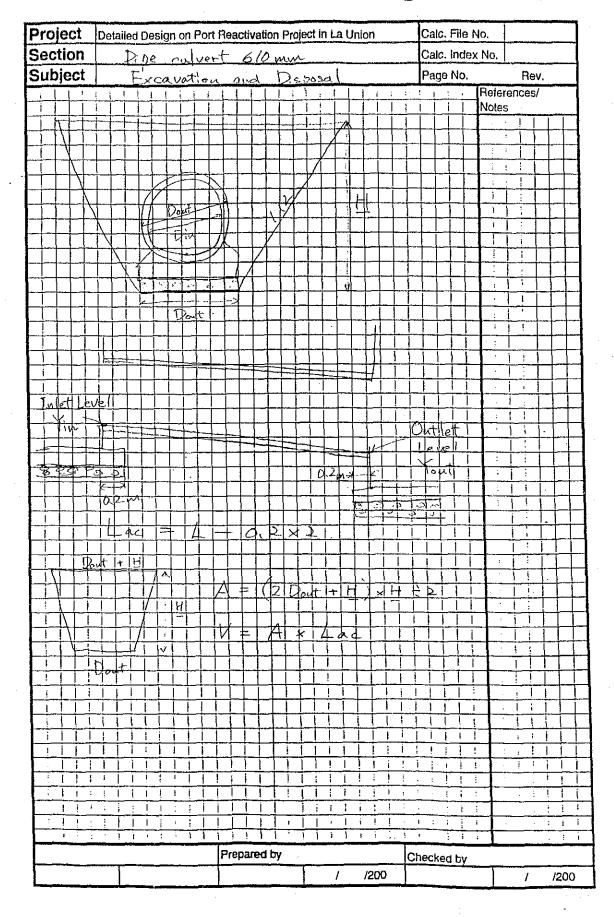
See the item of excavation and disposal of 457mm.

(24-0/01)

Rev	Prepa	red	No. of	Chec	ked	Revie	ewed	Superseded	
	by	Date	Pages	by	Date	by	Date	by Calc No.	
0	Kona Goria			Mr. Touma		Hr. Ando			
1				·					
2			·						
3									

FN: Calculation_Cover_Sheet_020504_seg cover

(a) NIPPON KOEI CO, LTD.



Company					~ 								·	o Ouiverts	
OP-1		D _{in}				Yan	Yout		L	Lac	Vex	Vcs	Vic	Vbf	Cmpct
2 OP-2	1 100-1														
1															
1															
6 OP-4-1 0.457 0.584 0.056 0.487 3.686 0.587 3.687 3.787 2.889 10 0.885 352 0.41 1.4 1.75 5.68 OP-5-1 0.557 0.584 0.064 5.687 3.889 3.787 2.684 10 0.885 352 0.4 1.6 1.8 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2															
9. OP-5- 9. OF-5- 9.		0.457	0.584												
1				0.064	5.637	3,389		2.648							225
10 OP-8-1 0.457 0.584 0.064 5.590 2.595 2.885 2.884 2.955 68 0.78 411 5.39 5.586 5.91 5.91 110 OP-8-2 0.457 0.584 0.064 5.500 0.295 2.957 2.865 2.90 1.96 1114 1.72 1.74 106 0.77 1.75 0.064 0										7.6		0,67			
10 PC-8- -1 0.457 0.584 0.064 0.555 0.019 2.957 2.959 30 2.95 17/5 7.6 2.692 18/2															
11 CP-8-2 0.457 0.584 0.064 5.570 2.995															
12 OP-8-2- O.457 O.584 O.064 S.595 O.021 Z.997 Z.89 O. 9.0 S.6 D.35 O.885 S.2 S.357															
13 CP-8-3 0.457 0.584 0.684 5.697 3.698 2.697 2.609 35 34.5 1944 3.04 3.06 195 1174 13.0 12.0 13.0 12.1 13.0 13.															
14 C P-8-4 0.457 0.894 0.064 5507 3.095 3.071 2.758 10 9.6 52 0.85 0.85 48 32.1 315 C P-2 0.457 0.584 0.064 5.57 3.997 4.258 1.289 1.287 2.281 11.29 11.39 2.24 2.278 315 C P-2 0.457 0.584 0.064 5.27 3.245 3.262 2.286 2.012 2.042 3.7 1.79 1.81 7.8 60.7 316 C P-2 0.457 0.584 0.064 5.27 3.245 3.262 2.288 2.13 2.178 1.00 2.098 2.1 1.00 7.0 317 318 C P-1 0.457 0.584 0.064 5.27 3.245 3.262 2.185 2.18 3.0 1.00 1.00 3.0 318 C P-1 0.457 0.584 0.064 5.01 2.748 2.248 2.228 1.25 2.18 3.0 1.00 1.00 3.0 319 C P-1 0.457 0.584 0.064 5.01 2.748 2.248 2.228 1.25 2.18 3.0 1.00 1.00 3.0 320 C P-2 0.457 0.584 0.064 5.01 2.748 2.482 2.074 1.50 4.98 7.84 1.31 1.52 3.0 3.0 321 C P-2 0.457 0.584 0.064 5.01 2.748 2.482 2.048 1.25 1.786 67 1.57 1.58 78 5.7 322 C P-2 0.457 0.584 0.064 5.01 0.084 4.005 0.084 0.064 5.01 0.084 0.064 0.	13 CP~8-3														
15 DP-1				0.064	5.507										
10 Dec. 0.457 0.584 0.004 0.51 3.47 3.249 2.286 2.213 2.214 3.27 17.9 1.81 78 60.7										128.79	281				279.3
18 DP-4-1 0.457 0.594 0.094 5.514 3.247 3.228 2.457 2.115 2.135 3.94 3.98 1.99 5.5 6.45 19 DP-7-1 0.467 0.584 0.094 5.017 2.746 2.540 2.704 1.50 1.99 1.57 1.58 2.5 7.75 20 DP-9-2 0.467 0.584 0.094 5.015 2.746 2.540 2.704 1.50 1.496 784 1.311 13.23 718 491.9 21 DP-9-2 0.467 0.584 0.094 5.015 2.746 2.540 2.704 1.50 1.496 784 1.311 13.23 718 491.9 22 EP-1 0.467 0.584 0.094 5.015 2.746 2.748 2.588 16.25 7.65 6.75 7.55 7.55 7.55 7.55 23 EP-1 0.457 0.584 0.094 5.015 3.95 3.99 3.178 3														78	60.7
19 DP -7-1 0.457 0.584 0.094 5.17 2.893 2.898 2.228 18.25 17.25 5.0 1.57 1.59 32 2.71 2.72 2.71 2.72 2.71 2.72 2.71 2.72 2															
20 OP-9-1 0.457 0.584 0.084 5.015 2/40 2/48 2.094 1.50 1.655 1.655 1.655 1.656 1															
21 DP-9-2 0.457 0.584 0.064 6.01 2.746 2.748 2.892 18.25 17.85 67 1.57 1.58 79 557. 22 EP-1 0.467 0.584 0.064 6.01 6.07 4.092 4.002 2.259 2.00 19.6 79 1.72 1.74 71 525. 23 EP-2 0.457 0.584 0.064 6.78 3.991 3.996 2.317 81.47 81.07 328 7.11 7.17 729 2.352 24 EP-2-1 0.457 0.584 0.064 5.78 4.008 4.002 2.298 9.1 8.7 33 0.77 0.77 32 2.51 25 EP-4-3 0.457 0.584 0.064 5.78 4.897 4.891 1.587 142.69 142.29 312 12.47 12.58 2.49 3.09 25 EP-3-2 0.457 0.584 0.064 5.78 4.897 4.891 15.87 12.2 1.6 48 1.9 1.9 39 4.9 27 EP-5-2 0.457 0.584 0.064 5.22 3.211 3.005 2.346 9.1 8.7 3.5 0.77 0.77 3.3 2.55 76 76 76 76 76 76 76															
22 EP-1 0.457 0.584 0.064 0.064 5.78 3.997 3.996 2.279 1.06 79 1.12 1.74 71 56.6 23 EP-2 0.457 0.584 0.064 5.78 3.997 3.596 2.17 81.47 81.07 3.28 7.11 1.72 2.17 2.29 2.23 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25	21 DP-9-2														
23 PP - 2				0.064	6.015	4.097	4.003								
24 PF-2-1 0.457 0.584 0.064 5.87 4.068 4.003 2.288 9.1 8.7 35 0.77 0.77 32 25.1 52 FF-4-3 0.457 0.584 0.064 5.185 4.897 4.176 1.867 14.066 142.29 312 12.47 12.58 2.49 319 25 FF-4-3 0.457 0.584 0.064 5.25 4.897 4.893 1.584 22 21.6 48 1.9 1.91 9.9 4.69 25 FF-4-3 0.457 0.584 0.064 5.25 4.897 4.893 1.584 22 21.6 48 1.9 1.91 9.9 4.69 25 FF-4-3 0.457 0.584 0.064 5.25 4.997 4.893 1.584 22 21.6 48 1.9 1.91 9.9 4.69 25 FF-4-3 0.457 0.584 0.064 5.25 3.211 3.205 1.346 1.00 26 FF-4-3 0.457 0.584 0.064 5.25 3.211 3.205 1.346 27 FF-4-2 0.58 0.762 0.076 5.27 2.644 2.61 3.311 22 1.95 28 FF-4-3 0.61 0.762 0.076 5.27 2.644 2.61 3.311 22 1.95 29 FF-4-3 0.61 0.762 0.076 5.27 2.644 2.61 3.311 22 1.95 20 FF-4-3 0.61 0.762 0.076 5.27 2.644 2.61 3.311 23 1.95 20 FF-4-3 0.61 0.762 0.076 5.27 2.644 2.61 3.311 23 1.95 20 FF-4-3 0.61 0.762 0.076 5.27 2.644 2.61 3.311 23 1.95 20 FF-4-3 0.61 0.762 0.076 5.27 2.644 2.61 3.311 23 1.95 20 FF-4-3 0.61 0.762 0.076 5.27 2.68 2.29 2.244 2.25 20 FF-4-3 0.61 0.762 0.076 5.27 2.25 2.269 2.244 2.26 2.65 20 FF-4-3 0.61 0.762 0.076 5.27 2.25 2.269 2.244 2.26 2.65 20 FF-4-3 0.61 0.762 0.076 5.27 2.25 2.244 2.26 2.26 2.26 2.26 20 FF-4-3 0.61 0.762 0.076 5.27 2.26 2.207 2.166 3.147 12.65 12.25 12.5 20 FF-4-1 0.61 0.762 0.076 5.27 2.26 2.207 2.166 3.147 12.65 12.25 12.5 91 1.68 2.92 177 10.10 1.00 1.00 1.00 1.00 1.00 1.00		0.457						2,317	81.47	81.07	328	7.11			
28 PP-4-4 O.457 O.584 O.094 6.195 4.897 4.893 1.884 22 21.6 48 1.9 1.91 39 4.895 1.894 1.90										8.7	35		0.77	32	25.1
27 Pro - 2															
Total															
AP-1		3.107	J.507	0.007	U.L.L.	113.0	U.ZUU	2.040		6.7					
2 AP-2											770	JE.U	33.3	2230	2000
2 NF-2									20	19.6	157	2.69	3.01	143	79.9
4 AP-4														283	159.9
5 AP-S-1 0.61 0.762 0.076 5.132 2.568 2.909 3.214 2.6 2.56 192 3.52 3.32 176 101.8 7 AP-S-2 0.61 0.762 0.076 4.928 2.182 2.138 3.184 2.6 2.56 192 3.52 3.92 1773 101.1 7 AP-S-2 0.61 0.762 0.076 4.928 2.182 2.138 3.184 2.6 2.56 192 3.52 3.92 1773 101.1 7 AP-S-2 0.61 0.762 0.076 4.928 2.207 2.186 3.144 12.55 12.25 91 1.69 1.88 82 471.7 8 AP-7-1 0.61 0.762 0.076 5.332 2.192 2.055 3.152 2.6 2.56 189 3.52 3.92 2.19 10.1 9 BP-1-1 0.61 0.762 0.076 5.332 2.192 0.055 3.614 2.5 2.55 2.241 3.52 3.92 2.19 112 10 BP-2-1 0.61 0.762 0.076 5.332 2.192 0.055 3.614 2.55 2.55 2.38 3.52 3.92 2.19 112 11 BP-3-1 0.61 0.762 0.076 5.132 1.579 2.535 2.991 2.6 2.56 1.73 3.52 3.92 2.16 111.3 12 0.67-13-1 0.61 0.762 0.076 5.132 2.579 2.535 2.991 2.6 2.56 173 3.52 3.92 148 94.1 14 0.67-13-1 0.61 0.762 0.076 5.12 2.579 2.535 2.991 2.6 2.56 173 3.52 3.92 2.68 91.4 15 0.67-13-1 0.61 0.762 0.076 5.12 2.579 2.535 2.991 2.6 2.56 173 3.52 3.92 2.68 191.3 16 0.67-13-1 0.61 0.762 0.076 5.12 2.579 2.303 2.999 2.6 1.55 1.67 3.52 3.92 1.68 9.13 16 0.67-13-1 0.61 0.762 0.076 5.12 2.779 3.094 3.93															102.6
6 AP-6-1 0.61 0.762 0.076 4.928 2.182 2.133 3.194 2.6 2.5 192 3.52 3.92 173 10.1.1 7 AP-6-2 0.61 0.762 0.076 4.928 2.077 2.186 3.147 12.65 12.25 31 1.080 1.88 6.2 47.9 8 AP-7-1 0.61 0.762 0.076 4.0076 4.0076 4.0076 1.00															
7 AP-8-2 0.61 0.762 0.076 4.928 2.207 2.186 3.147 12.85 12.25 91 1.88 1.88 82 47.9 8 AP-7-1 0.61 0.762 0.076 0.076 1.072 0.076 5.332 2.129 2.085 3.841 28 25.8 189 3.26 3.92 170 100.2 9 BP-1-1 0.61 0.762 0.076 5.332 2.129 2.085 3.841 28 25.8 241 3.52 3.92 2.170 100.2 9 BP-3-1 0.61 0.762 0.076 5.332 2.129 2.085 3.841 28 25.8 241 3.52 3.92 2.170 100.2 11 BP-3-1 0.61 0.762 0.076 5.332 2.129 2.085 3.841 28 25.8 241 3.52 3.92 2.19 112 12 CP-11-1 0.61 0.762 0.076 5.132 2.579 2.535 1.914 3.812 28 25.6 23.8 3.52 3.92 2.16 111.3 12 CP-12-1 0.61 0.762 0.076 4.928 1.782 1.738 3.584 28 25.6 23.8 3.52 3.92 2.16 111.3 13 CP-12-1 0.61 0.762 0.076 5.132 2.579 2.535 2.991 26 25.6 10.73 3.52 3.92 1.84 94.1 14 CP-13-1 0.61 0.762 0.076 4.928 1.782 1.738 3.584 28 25.6 23.73 3.52 3.92 1.84 94.1 15 CP-8 0.61 0.762 0.076 5.132 2.579 3.193 2.999 30 2.96 1954 4.06 4.54 173 109.8 16 CP-8 0.61 0.762 0.076 5.42 2.82 2.754 3.049 3.3 3.46 2.2 2.76 3.02 2.6 1954 4.06 4.54 173 109.8 17 CP-9 0.61 0.762 0.076 5.32 2.75 2.706 3.02 2.6 2.56 17.3 3.52 3.92 1.54 9.1 18 DP-4 0.61 0.762 0.076 5.34 3.92 3.066 2.61 160 159.8 862 2.19 2.444 1/3 5.832 1.90 1.90 1.90 1.90 1.90 1.90 1.90 1.90															
8 AP-7-1															
9 BP-1-1 0.61 0.762 0.076 5.332 2.129 2.085 3.641 26 25.6 241 3.52 3.92 2.22 11.28 11 BP-3-1 0.61 0.762 0.076 5.132 1.988 1.914 3.1512 2.8 25.6 2.35 3.52 3.92 2.19 1.12 11 BP-3-1 0.61 0.762 0.076 4.928 1.782 1.738 3.584 2.6 2.56 2.55 3.52 3.92 2.16 11.13 12 0.71-1 0.61 0.762 0.076 5.132 2.579 2.535 2.991 2.6 2.56 2.56 2.55 3.52 3.92 2.16 11.13 13 0.71-1 0.61 0.762 0.076 4.928 2.447 2.403 2.919 2.6 2.56 167 3.52 3.92 148 94.3 15 0.71-1 0.61 0.762 0.076 4.928 2.447 2.403 2.919 2.6 2.56 167 3.52 3.92 148 94.3 15 0.76-2 0.076 5.47 2.55 3.193 2.939 3.0 2.96 1.95 4.06 4.54 1.73 1.084 1.05		0.61	0.762	0.076											
10 BP-2-1 0.61 0.762 0.076 5.132 1958 1.914 3.612 26 25.6 238 3.52 3.92 2.19 112 11 BP-3-1 0.61 0.762 0.076 4.928 1.798 1.								3.641	26						112.8
12 CP-11-1															
13 OP-12-1 Of O.762 O.765															
14 OP-13-1 D81 0.762 D076 A711 1.84 1.596 8.509 26 25.66 227 3.52 3.92 208 199.4 15 OP-6 O.81 0.762 0.076 5.747 3.255 3.193 2.999 30 2.916 195.5 4.06 4.54 1.73 109.6 16 OP-8 O.61 0.762 0.076 5.42 2.82 2.754 3.049 35 34.6 242 4.75 5.3 216 131.9 17 OP-9 O.61 0.762 0.076 5.34 3.225 3.066 2.61 160 159.6 176 3.52 3.92 157 96.9 18 DP-4 O.61 0.762 0.076 5.34 3.087 3.066 2.61 160 159.6 862 21.9 24.44 743 538.2 19 DP-5-1 O.61 0.762 0.076 5.34 3.087 3.066 2.61 160 159.6 862 21.9 24.44 743 538.2 19 DP-5-1 O.61 0.762 0.076 5.34 3.087 3.066 2.679 21.75 21.35 121 2.93 3.27 105 73.5 16 EP-4 O.61 0.762 0.076 5.48 5.93 3.21 2.42 550.1 54.6 26.1 7.5 8.37 221 173.8 21 EP-4-1 O.61 0.762 0.076 5.33 3.506 3.499 2.243 3.1 8.7 37 1.2 1.34 31 2.62 22 EP-4-1 O.61 0.762 0.076 5.38 4.172 4.098 4.706 5.43 5.03 14 0.69 0.78 11 12.5 24 EP-5-1 O.61 0.762 0.076 5.38 4.172 4.098 1.706 5.43 5.03 14 0.69 0.78 11 12.5 24 EP-5-1 O.61 0.762 0.076 5.32 3.201 3.184 2.443 15.3 14.8 7.3 2.05 2.29 6.2 47.8 10 10 10 10 10 10 10															96.1
15 CP-6															
Decoration Dec															109.4
17 GP-9					5.42	2.82	2.754								131.9
19 DP-5-1 0.61 0.762 0.076 5.34 3.087 3.066 2.679 21.75 21.35 121 2.93 3.27 105 73.5 20 EP-3 0.61 0.762 0.076 5.48 3.59 3.321 2.42 55.01 54.61 261 7.5 8.37 221 173.8 21 EP-4 0.61 0.762 0.076 5.275 3.314 3.184 2.442 27.3 26.9 131 3.69 4.12 111 86.2 22 EP-4-1 0.61 0.762 0.076 5.38 3.14 3.184 2.442 27.3 26.9 131 3.69 4.12 111 80.2 24 EP-5-1 0.61 0.762 0.076 5.38 4.172 4.008 1.706 5.43 5.03 14 0.69 0.78 11 12.5 24 EP-5-1 0.61 0.762 0.076 5.38 4.172 4.008 1.706 5.43 5.03 14 0.69 0.78 11 12.5 24 EP-5-1 0.61 0.762 0.076 5.22 3.201 3.184 2.442 3.15 3.14 3.149 7.3 2.05 2.29 62 47.8 10tal													3.92		
P-3															
21 EP-4 0.61 0.762 0.076 5.275 3.314 3.184 2.442 27.3 26.9 131 3.69 4.12 111 36.2 22 EP-4-1 0.61 0.762 0.076 5.33 3.506 3.499 2.243 9.1 8.7 37 1.2 1.34 31 26.2 23 EP-4-2 0.61 0.762 0.076 5.34 4.172 4.008 1.706 5.43 5.03 14 0.69 0.78 111 12.5 24 EP-5-1 0.61 0.762 0.076 5.22 3.201 3.184 2.443 15.3 14.9 73 2.05 2.29 62 47.8 Total															
22 EP-4-1 0.61			0.762												
23 EP-4-2 0.61 0.762 0.076 5.38 4.172 4.008 1.706 5.43 5.03 1.4 0.69 0.78 11 12.5 24 EP-5-1 0.61 0.762 0.076 5.22 3.201 3.184 2.443 15.3 14.9 7.3 2.05 2.29 62 47.8 17 1	22 EP-4-1														
Total New York Total Total Total Total Total New York Total Total Total Total Total Sin Si					5.38	4.172									
AP-5		0.61	0.762	0.076	5.22	3.201	3.184	2.443		14.9		2.05	2,29		47.8
Decoration Property Propert	lotal					-	·		810		5390	110	122	4810	2970
Decoration Property Propert	1 AP-5	0.762	0.94	0.089	5.03	2.309	2 138	3 265	97.40	87.00	722	1674	107	697	200.2
Total	2 BP-1														
1 1 AP-6	Total														762
2 BP-2 9.914 1.118 0.102 5.03 1.91 1.739 3.697 87.49 87.09 956 17.53 26.3 827 419.4 3 CP-10 0.914 1.118 0.102 5.232 2.702 2.535 3.105 85.78 85.38 708 17.19 25.78 581 360.6 4 DP-5 0.914 1.118 0.102 4.993 3.065 3.039 2.423 37.88 37.48 212 7.55 11.32 156 132.8 5 DP-6 0.914 1.118 0.102 4.998 3.036 2.868 2.438 85.88 85.48 488 17.21 25.81 361 304 6 DP-7 0.914 1.118 0.102 5.145 2.865 2.722 2.843 150 149.6 1081 30.11 45.17 859 592.6 7 DP-8 0.914 1.118 0.102 5.069 2.719 2.543 2.93 90 89.6 679 18.04 27.06 546 362.8 8 DP-8-1 0.914 1.118 0.102 4.872 2.9 2.722 2.553 90 89.6 679 18.04 27.06 546 362.8 9 EP-5 0.914 1.118 0.102 5.055 3.179 2.872 2.521 145 144.6 868 2.91 43.66 653 526.2 1 BP-3 1.219 1.473 0.127 4.82 1.735 1.599 3.74 93.6 93.2 1166 27.46 46.55 933 485.9 2 BP-4 1.219 1.473 0.127 4.711 1.595 1.564 3.718 20 19.6 243 5.78 9.79 194 101.8 3 BP-5-1 1.219 1.473 0.127 4.711 1.573 1.564 3.729 6 5.6 70 1.65 2.8 56 29.2 5 CP-12 1.219 1.473 0.127 5.03 2.531 2.403 3.15 87.49 87.09 837 2.565 43.5 619 402.7 5 CP-12 1.219 1.473 0.127 4.778 2.284 2.101 3.172 90.6 90.2 876 26.58 45.05 640 426.2 6 DP-10 1.219 1.473 0.127 4.778 2.284 2.101 3.172 90.6 90.2 876 26.58 45.05 650 418 8 EP-6 1.219 1.473 0.127 4.89 2.869 2.812 2.636 58 57.6 424 16.97 2.877 2.80 2.367 8 EP-6 1.219 1.473 0.127 4.89 2.869 2.812 2.636 58 57.6 424 16.97 2.877 2.80 2.367 8 EP-6 1.219 1.473 0.127 4.89 2.869 2.812 2.636 58 57.6 424 16.97 2.877 2.80 2.367 8 EP-6 1.219 1.473 0.127 4.89 2.869 2.812 2.636 58 57.6	1 140.0	0.024	147-	D 455											
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7 IDP-8		0.914	1.118	0.102	5.145										
8 UP-8-1							2.543	2.93	90	89.6	679				362.8
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Quantity Item	Crystand stone for foundation	Unit	W ^B								

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References, Calculation Base and Revisions

See the through excavation and disposal of 457 mm.

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1 !CP-1	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m3)	(m3)	(m3)	(m3)	(m2)
2 'CP-2	0.457 0.457	0.584 0.584	0.064	5.55	3.599	3.545	2.312	17	16.6	67	1.46	1.47	60	48.1
3 CP-3	0.457	0.584	0.064	5.487 5.437	3.543	3.505 3.431	2.297	20	19.6		1.72	1.74	70	56.5
4 ICP-4	0.457	0.584	0.064	5,537	3.429	3.391	2.304 2.461	35 20	34.6 19.6	139 88	3.04	3.06	124	100
5 CP-4-1	0.457	0.584	0.064	5.487	3.469	3.431	2.371	20	19.6	83	1.72	1.74	80	59.7
6 CP-5	0.457	0.584	0.064	5.637	3.389	3.257	2.648	70	69.6	352	6.1	1.74 6.16	75	58
7 CP-5-1	0,457	0,584	0.064	5.637	3.405	3.391	2.573	8	7.6	37	0.67	0.18	321 34	225
8 CP-7	0.457	0.584	0.064	5.682	2.891	2.824	3.158	35	34.6	237	3.04	3,06	222	24 129,5
9 CP-8-1	0.457	0.584	0.064	5.507	2.955	2.824	2.951	68	67.6	411	5.93	5.98	381	239
10 CP-8-1-1	0.457	0.584	0.064	5.55	3.019	2.957	2.896	30	29.6	175	2.6	2.62	162	103.1
11 CP-8-2	0.457	0.584	0.064	5.507	2.995	2.957	2.865	20	19.6	114	1.72	1.74	106	67.7
12 CP-8-2-1	0.457	0.584	0.064	5,555	3.021	2.997	2.88	10	9.6	56	0.85	0.85	52	33.3
13 CP-8-3 14 CP-8-4	0.457	0.584	0.064	5,507	3.069	2.997	2.808	35	34.6	194	3.04	3.06	179	117.4
15 OP-1	0.457 0.457	0.584 0.584	0.064	5.507	3.095	3.071	2.758	10	9.6	52	0.85	0.85	48	32.1
16 DP-2	0.457	0.584	0.064	5.875 5.35	4.997 3.347	4.253 3.249	1.584	129.19	128.79	281	11.29	11.39	224	279.3
17 IDP-3	0.457	0.584	0.064	5.27	3.245	3.226	2.386 2.368	20.82 24.13	20.42	87	1.79	1.81	78	60.7
18 DP-4-1	0.457	0.584	0.064	5.34	3.247	3,226	2.437	21.75	23.73	100 94	2.08	2.1	90	70.1
19 DP-7-1	0.457	0.584	0.064	5.17	2.883	2.868	2.628	18.25	17.85	90	1.88 1.57	1.89	85	64.5
20 IDP~9~1	0.457	0.584	0.064	5.015	2.746	2.543	2.704	150	149.6	784	13.11	13.23	82	57.4
21 DP-9-2	0.457	0.584	0.064	5.01	2.764	2.748	2.588	18,25	17.85	87	1.57	1.58	718 79	491.9 56.7
22 EP-1	0.457	0.584	0.064	6.015	4.097	4.003	2.299	20	19.6	79	1.72	1.74	71	56.6
23 IEP-2	0.457	0.584	0.064	5.78	3.997	3.596	2.317	81.47	81.07	328	7.11	7.17	292	235.2
24 EP-2-1	0.457	0.584	0.064	5.97	4.008	4.003	2.298	9.1	8.7	35	0.77	0.77	32	25.1
25 EP-4-3 26 EP-4-4	0.457	0.584	0.064	5.785	4.887	4.176	1.587	142.69	142.29	312	12.47	12.58	249	309
27 IEP-5-2	0.457 0.457	0.584	0.064	6.195	4,997	4.893	1.584	22	21.6	48	1.9	1.91	39	46.9
Total	0.407	0.084	0.064	5.22	3.211	3.205	2.346	9.1	8.7	36	0.77	0.77	33	25.5
1.000								1,070		4450	92.5	93.3	3990	3080
1 AP-1	0.61	0.762	0.076	5.522	2.644	2.61	3.311	20	19.6	157	2.69	201		
2 AP-2	0.61	0.762	0.076	5.427	2.606	2.532	3.274	40	39.6	312	5.44	3.01 6.07	143	79.9
3 AP-3	0.61	0.762	0.076	5.332	2.528	2.484	3.242	26	25.6	198	3.52	3.92	283	159.9
4 AP-4	0.61	0.762	0.076	5.232	2.48	2.313	3.251	85.78	85.38	663	11.72	13.08	179 600	102.6 342.7
5 AP-5-1	0.61	0.762	0.076	5.132	2.358	2.309	3.214	26	25.6	195	3.52	3.92	176	101.8
6 AP-6-1	0.61	0.762	0.076	4.928	2.182	2.138	3.184	26	25.6	192	3.52	3.92	173	101.1
7 AP-6-2	0.61	0.762	0.076	4.928	2.207	2.186	3.147	12.65	12.25	91	1.69	1.88	82	47.9
8 AP-7-1 9 BP-1-1	0.61	0.762	0.076	4.711	1.997	1.952	3.152	26	25.6	189	3.52	3.92	170	100.2
10 BP-2-1	0.61 0.61	0.762	0.076	5.332	2.129	2.085	3.641	26	25.6	241	3.52	3.92	222	112.8
11 BP-3-1	0.61	0.762	0.076	5.132 4.928	1.958	1.914	3.612	26	25.6	238	3.52	3.92	219	112
12 CP-11-1	0.61	0.762	0.076	5.132	1.782 2.579	1.738 2.535	3.584	26	25.6	235	3.52	3.92	216	111.3
13 ICP-12-1	0.61	0.762	0.076	4.928	2.447	2.403	2.991 2.919	26 26	25.6 25.6	173	3.52	3.92	154_	96.1
14 ICP-13-1	0.61	0.762	0.076	4.711	1.64	1.596	3.509	26	25.6	167 227	3.52 3.52	3.92	148	94.3
15 iCP-6	0.61	0.762	0.076	5.747	3.255	3.193	2.939	30	29.6	195	4.06	3.92 4.54	208	109.4
16 ICP-8	0.61	0.762	0.076	5.42	2.82	2.754	3.049	35	34.6	242	4.75	5.3	173 216	109.6 131.9
17 CP-9	. 0.61	0.762	0.076	5.332	2.75	2.706	3.02	26	25.6	176	3.52	3.92	157	96.9
18 :DP-4	0.61	0.762	0.076	5.34	3.225	3.066	2.61	160	159.6	862	21.9	24.44	743	538.2
19 DP-5-1	0.61	0.762	0.076	5.34	3.087	3.066	2.679	21.75	21.35	121	2.93	3.27	105	73.5
20 EP-3	0.61	0.762	0.076	5.46	3.59	3.321	2.42	55.01	54.61	261	7.5	8.37	221	173.8
21 !EP-4 22 !EP-4-1	0.61 0.61	0.762	0.076	5.275	3.314	3.184	2.442	27.3	26.9	131_	3.69	4.12	111	86.2
23 EP-4-2	0.61	0.762	0.076	5.33	3.506	3.499	2.243	9.1	8.7	37	1.2	1.34	31	26.2
24 EP-5-1	0.61	0.762	0.076	5.38 5.22	4.172 3.201	4.008	1.706	5.43	5.03	14	0.69	0.78	11	12.5
Total	0.01	0.702	0.070	3.22	3.201	3.184	2.443	15,3	14.9	73	2.05	2.29	62	47.8
								810		5390	110	122	4810	2970
1 :AP5	0.762	0.94	0.089	5.03	2.309	2.138	3.265	87.49	87.09	732	14.74	19.7	637	2000
2 BP-1	0.762	0.94	0.089	5.232	2.081	1.914	3.693	85.78	85.38	879	14.45	19.31	786	366.3 395.6
Total								174		1620	29.2	39.1	1430	762
1 15 2														
1 AP-6	0.914	1.118	0.102	4.82	2.134	1.952	3.269	93.6	93.2	839	18.76	28.14	701	408.9
2 BP-2 3 CP-10	0.914	1.118	0.102	5.03	1.91	1.739	3.697	87.49	87.09	956	17.53	26.3	827	419.4
4 DP-5	0.914	1.118	0.102	5.232	2.702	2.535	3.105	85.78	85.38	708	17.19	25.78	581	360.6
5 DP-6	0.914	1.118	0.102	4.983 4.898	3.065 3.036	3,039	2.423	37.88	37.48	212	7.55	11.32	156	132.8
6 DP-7	0.914	1.118	0.102	5.145	2.865	2.868	2.438	85.88	85.48	488	17.21	25.81	361	304
7 DP-8	0.914	1.118	0.102	5.069	2.719	2.543	2.843	150 90	149.6 89.6	1081	30.11	45.17	859	592.6
8 DP-8-1	0.914	1.118	0.102	4.872	2.9	2.722	2.553	90	89.6	679 548	18.04 18.04	27.06 27.06	546	362.8
9 EP-5	0.914	1.118	0.102	5.055	3.179	2.872	2.521	145	144.6	868	29.1	43.66	415 653	329
Total								866		6380	174	261	5100	526.2 3440
1											·····		2100	3440
1 BP-3	1.219	1.473	0.127	4.82	1.735	1.599	3.74	93,6	93.2	1166	27.46	46.55	933	485.9
2 BP-4 3 BP-5-1	1.219	1.473	0.127	4.711	1.595	1.564	3.718	20	19.6	243	5.78	9.79	194	101.8
4 CP-11	1.219	1.473	0.127	4.711	1.573	1.564	3.729	6	5.6	70	1.65	2.8	56	29.2
5 CP-12	1.219	1.473	0.127 0.127	5.03	2.531	2.403	3.15	87.49	87.09	837	25.66	43.5	619	402.7
6 DP-10	1.219	1.473	0.127	4.82 4.778	2.399	2.217	3.099	93.6	93.2	873	27.46	46.55	640	426.2
7 DP-9	1.219	1.473	0.127	4.778	2.539	2.101	3.172	90.6	90.2	876	26.58	45.05	650	419
8 EP-6	1.219	1.473	0.127	4.89	2.869	2.812	3.105 2.636	130.5 58	130.1 57.6	1223	38.33	64.98	898	595.6
Total					2.000	4.012	4.000	580	31.6	5720	16,97	28.77	280	236.7
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	QUANTITY CALCULATION C		
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	Pipe culvert 610 mm	Pay Item No. (BOQ)	2H-0203
Quantity Item	Lean concrete	Unit	70.5

Volume of lean concrete was computed by multiplying section area by actual length, manhole base consideration.

References, Calculation Base and Revisions

See the item of excavation and district of 457 mm

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	(m)	(m)	(m)	<u>G</u> _(m)	(in _(m)	Y _{out} (m)	변 (m)	(m)	Lac (m)	Vex (m3)	Vcs (m3)	Vic (m3)	Vbf (m3)	Cmpct
1 CP-1	0.457	0.584	0.064	5.55	3.599	3.545	2.312	17	16.6	67	1.46	1.47	(ma) i	(m2) 48,1
2 CP-2	0.457	0.584	0.064	5.487	3.543	3.505	2.297	20	19.6	78	1.72	1.74	70	56.5
3 CP-3	0.457	0.584	0.064	5.437	3,503	3.431	2.304	35	34.6	139	3.04	3.06	124	100
4 :CP-4	0.457	0.584	0.064	5,537	3.429	3.391	2.461	20	19.6	88	1.72	1.74	80	59,7
5 :CP-4-1	0.457	0.584	0.064	5.487	3.469	3.431	2.371	20	19.6	83	1.72	1.74	75	58
6 CP-5 7 CP-5-1	0.457	0.584	0.064	5.637	3.389	3,257	2.648	70	69.6	352	6.1	6.16	321	225
8 CP-7	0.457 0.457	0.584 0.584	0.064	5.637	3.405	3.391	2.573	8_	7.6	37	0.67	0.68	34	24
9 iCP-8-1	0.457	0.584	0.064	5.682 5.507	2.891 2.955	2.824 2.824	3.158 2.951	35	34.6	237	3.04	3.06	222	129.5
10 ICP-8-1-1	0.457	0.584	0.064	5.55	3.019	2.957	2.896	68 30	67.6	411	<u>5.93</u>	5.98	381	239
11 ICP-8-2	0,457	0.584	0.064	5,507	2.995	2.957	2,865	20	29.6 19.6	175	2.6	2.62	162	103,1
12 ICP-8-2-1	0.457	0.584	0.064	5.555	3.021	2.997	2.88	10	9.6	114 56	1.72	1.74	106	67.7
13 CP-8-3	0.457	0.584	0.064	5.507	3.069	2.997	2.808	35	34.6	194	0.85 3.04	0.85 3.06	52	33.3
14 ICP-8-4	0.457	0.584	0.064	5.507	3.095	3.071	2.758	10	9.6	52	0.85	0.85	179 48	117.4 32.1
15 IDP~1	0,457	0.584	0.064	5.875	4.997	4.253	1.584	129.19	128,79	281	11.29	11.39	224	279.3
16 IDP-2	0,457	0.584	0.064	5.35	3.347	3.249	2.386	20.82	20.42	87	1.79	1.81	78	80.7
17 IDP-3	0.457	0.584	0.064_	5.27	3.245	3.226	2.368	24.13	23.73	100	2.08	2.1	90	70.1
18 IDP-4-1	0,457	0.584	0.064	5.34	3.247	3.226	2.437	21.75	21.35	94	1.88	1.89	85	64.5
19 IDP-7-1	0.457	0.584	0.064	5.17	2.883	2.868	2.628	18.25	17.85	90	1.57	1.58	82	57,4
20 IDP-9-1	0.457	0.584	0.064	5.015	2.746	2,543	2.704	150_	149.6	784	13.11	13.23	718	491.9
21 iDP-9-2	0.457	0.584	0.064	5.01	2.764	2.748	2.588	18,25	17.85	87	1.57	1.58	79	56.7
22 EP-1 23 IEP-2	0,457 0,457	0.584	0.064	6.015	4.097	4.003	2.299	20	19.6	79	1.72	1.74	71	56.6
24 EP-2-1		0.584	0.064	5.78	3.997	3.598	2.317	81.47	81.07	328	7.11	7.17	292	235.2
25 EP-4-3	0.457 0.457	0.584 0.584	0.064	5.97 5.785	4.008 4.887	4.003 4.176	2.298 1.587	9.1	8.7	35	0.77	0.77	32	25.1
26 IEP-4-4	0.457	0.584	0.064	6.195	4.887	4.178	1.584	142.69 22	142.29	312	12.47	12.58	249	309
27 IEP-5-2	0.457	0.584	0.064	5.22	3.211	3.205	2.346	9.1	21.6 8.7	48 36	1.9 0.77	1.91	39	46.9
Total		0.001	0.001	U.L.L.	O(ZII	0.200	2.070	1,070	6.7	4450		0.77	33	25.5
l l								.,		4400	92.5	93.3	3990	3080
1 ;AP-1	0.61	0.762	0.076	5.522	2.644	2.61	3.311	20	19.6	157	2.69	3.01	143	79.9
2 IAP-2	0.61	0.762	0.076	5.427	2.606	2.532	3.274	40	39.6	312	5.44	6.07	283	159.9
3 AP-3	0.61	0.762	0.076	5.332	2.528	2.484	3.242	26	25.6	198	3.52	3.92	179	102.6
4 AP-4	0.61	0.762	0.076	5.232	2.48	2.313	3.251	85.78	85.38	663	11.72	13.08	600	342.7
5 AP-5-1	0.61	0.762	0.076	5.132	2,358	2.309	3.214	26	25.6	195	3.52	3,92	176	101.8
6 AP-6-1	0.61	0.762	0.076	4,928	2.182	2.13B	3.184	26	25.6	192	3.52	3.92	173	101.1
7 AP-6-2	0.61	0.762	0.076	4.928	2.207	2.186	3.147	12.65	12.25	91	1.69	1.88	82	47.9
8 AP-7-1 9 BP-1-1	0.61	0.762	0.076	4.711	1.997	1.952	3,152	26	25.6	189	3.52	3.92	170	100.2
10 iBP-2-1	0.61 0.61	0.762 0.762	0.076	5.332	2,129	2.085	3.641	26	25.6	241	3.52	3.92	222	112.8
11 IBP-3-1	0.61	0.762	0.076	5.132 4.928	1.958	1.914 1.738	3.612	26	25.6	238	3.52	3,92	219	112
12 CP-11-1	0.61	0.762	0.076	5.132	1,782 2,579	2.535	3.584 2.991	26	25.6	235	3.52	3.92	216	111.3
13 ICP-12-1	0.61	0.762	0.076	4.928	2.447	2.403	2.919	26 26	25.6 25.6	173	3.52	3.92	154	96.1
14 (CP-13-1	0.61	0.762	0.076	4,711	1.64	1.596	3.509	26	25.6	167 227	3.52	3.92	148	94.3
15 iCP-6	0.61	0.762	0.076	5.747	3.255	3.193	2.939	30	29.6	195	3.52 4.06	3.92	208 173	109.4 109.6
16 iCP-8	0.61	0.762	0.076	5.42	2.82	2.754	3.049	35	34.6	242	4.75	4.54 5.3	216	131.9
17 ICP-9	0.61	0.762	0.076	5.332	2.75	2.706	3.02	26	25.6	176	3.52	3.92	157	96.9
18 :DP~4	0.61	0.782	0.078	5.34	3.225	3.066	2.61	160	159.6	862	21.9	24.44	743	538.2
19 IDP-5-1	0.61	0.762	0.076	5.34	3.087	3.066	2.679	21.75	21.35	121	2.93	3.27	105	73.5
20 IEP-3	0.61	0.762	0.076	5.46	3.59	3.321	2.42	55.01	54.61	261	7.5	8.37	221	173.8
21 IEP-4	0,61	0.762	0.076	5.275	3.314	3.184	2.442	27.3	26.9	131	3,69	4.12	111	86.2
22 EP-4-1	0.61	0.762	0.076	5.33	3.506	3.499	2.243	9.1	8.7	37	1.2	1.34	31	26.2
23 iEP-4-2 24 EP-5-1	0.61	0.762	0.076	5.38	4.172	4.008	1.706	5.43	5.03	14	0.69	0.78	11	12.5
Total	0.61	0.762	0.076	5.22	3,201	3.184	2.443	15.3	14.9	73	2.05	2.29	62	47.8
1 otal			· -					810		5390	110	122_	4810	2970
1 (AP-5	0.762	0.94	0.089	5.03	2.309	2.138	3.265	87.49	87.09	700	14.74		003	
2 BP-1	0.762	0.94	0.089	5.232	2.081	1.914	3.693	85.78	85.38	732 879	14.45	19.7 19.31	637 786	366.3 395.6
Total								174	30.00	1620	29.2	39.1	1430	762
									-	1020		J3.1	1400	/02
1 AP-6	0.914	1.118	0.102	4.82	2.134	1.952	3.269	93.6	93.2	839	18.76	28.14	701	408.9
2 BP-2	0.914	1.118	0.102	5.03	1.91	1.739	3.697	87.49	87.09	956	17.53	26.3	827	419.4
3 CP-10	0.914	1.118	0.102	5.232	2.702	2.535	3.105	85.78	85.38	708	17.19	25.78	581	360.6
4 :DP-5	0.914	1.118	0.102	4.983	3.065	3.039	2.423	37.88	37.48	212	7.55	11.32	156	132.8
5 DP-6	0.914	1.118	0.102	4.898	3.036	2.868	2.438	85.88	85.48	488	17.21	25.81	361	304
6 DP-7	0.914	1.118	0.102	5.145	2.865	2.722	2.843	150	149.6	1081	30.11	45.17	859	592.6
7 DP-8	0.914	1.118	0.102	5.069	2.719	2.543	2.93	90	89.6	679	18.04	27.06	546	362.8
8 DP-8-1 9 EP-5	0.914	1.118	0.102	4,872	2.9	2.722	2.553	90	89.6	548	18.04	27.06	415	329
Total	0.914	1.118	0.102	5.055	3.179	2.872	2.521	145	144.6	868	29.1	43.66	653	526.2
	' -							866		6360	174	261	5100	3440
1 8P-3	1.219	1.473	0.127	4.82	1.735	1.599	3.74	93.6	93.2	1100				1
2 BP-4	1.219	1.473	0.127	4.711	1.595	1.564	3.718	20		1166	27.46	46.55	933	485.9
3 BP-5-1	1.219	1.473	0.127	4.711	1.573	1.564	3.729	6	19.6 5.6	243	5.78	9.79	194	101.8
4 CP-11	1.219	1.473	0.127	5.03	2.531	2.403	3.15	87.49	87.09	70 837	1.65	2.8	56	29.2
5 CP-12	1.219	1.473	0.127	4.82	2.399	2.217	3.099	93.6	93,2	837	25.66	43.5	619	402.7
6 DP-10	1.219	1.473	0.127	4.778	2.284	2.101	3.172	90.6	90.2	876	27.46 26.58	46.55	640	426.2
7 DP-9	1.219	1.473	0.127	4.932	2.539	2.288	3.105	130.5	130.1	1223	38.33	45.05 64.98	650 898	419 595.6
8 EP-6	1.219	1.473	0.127	4.89	2.869	2.812	2.636	58	57.6	424	16.97	28.77	280	236.7
Total								580		5720	170	288	4270	2700
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	QUANTITY CALCULATION C	OVER SHEET	
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	Pipe culvert 610 mm	Pay Item No. (BOQ)	2H-0204
Quantity Item	Installation drainage pipe	Unit	m ·

Length of drainage pipe was computed for size culvert sloww.

References, Calculation Base and Revisions

See the item of excavation and disposal of 457mm.
(24-0101)

Rev	Prepa	red	No. of	Chec	cked	Revi	ewed	Superseded
	by	Date	Pages	by	Date	by	Date	by Calc No.
0	Koda Gona -			Mr. Journa		Mr. Ando		
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r	 -1		<u> </u>			¥									
		D _{in} (m)	D _{out} (m)	t (m)	<u>G</u> (m)	Y _{in} (m)	Y _{out} (m)	<u>H</u> (m)	L. (m)	Lac (m)	Vex	Vcs	VIc (m3)	Vbf	Cmpct
1 CP-	1	0.457	0.584	0.064	5.55	3.599	3,545	2.312	17	16.6	(m3) 67	(m3) ! 1,46	(ms) :	(m3) ! 60	(m2) 48.1
2 CP-2		0.457	0.584	0.064	5.487	3.543	3.505	2.297	20	19.6	78	1.72	1.74	70	56.5
3 CP-3		0.457	0.584	0,064	5.437	3.503	3.431	2.304	35	34.6	139	3.04	3.06	124	100
4 CP-4		0.457	0.584	0.064	5.537	3,429	3.391	2.461	50	19.6	88	1.72	1.74	80	59.7
5 CP-4		0.457 0.457	0,584 0.584	0.064	5.487	3.469	3.431	2.371	20	19.6	83	1.72	1.74	75	58
7 CP-5		0.457	0.584	0.064	5.637 5.637	3.389 3.405	3.257 3.391	2.648 2.573	70	69.6 7.6	352 37	6,1	6.16	321	225
8 CP-		0.457	0.584	0.064	5.682	2.891	2.824	3.158	35	34.6	237	0.67 3.04	0.68 3.06	222	24 129.5
9 CP-8		0.457	0.584	0.064	5.507	2.955	2.824	2.951	68	67.6	411	5.93	5.98	381	239
10 CP-8	8-1-1	0.457	0.584	0.064	5.55	3.019	2.957	2.896	30	29.6	175	2.6	2.62	162	103.1
_11 CP-8		0.457	0.584	0.064	5.507	2.995	2.957	2.865	20	19.6	114	1.72	1.74	106	67.7
12 CP-8		0.457	0,584	0.064	5.555	3.021	2.997	2.88	10	9.6	56	0.85	0.85	52	33.3
13 CP-8		0.457	0,584	0.064	5.507	3.069	2.997	2.808	35	34.6	194	3.04	3.06	179	117.4
15 DP-1		0.457 0.457	0.584 0.584	0.064	5.507 5.875	3.095 4.997	3.071 4.253	2.758	129.19	9.6	52	0.85	0.85	48	32.1
16 DP-2		0.457	0.584	0.064	5.35	3.347	3.249	<u>1.584</u> 2.386	20.82	128.79 20.42	281 87	11.29 1.79	11.39	224	279.3
17 DP-3		0.457	0.584	0.064	5.27	3.245	3.226	2.368	24.13	23.73	100	2.08	1.81 2.1	78 90	60,7 70.1
18 DP-4	4-1	0.457	0.584	0.064	5,34	3.247	3.226	2.437	21.75	21.35	94	1.88	1.89	85	64.5
19 DP~7		0.457	0.584	0.064	5.17	2.883	2.868	2.628	18.25	17.85	90	1.57	1.58	82	57.4
20 DP-9		0.457	0.584	0.064	5.015	2.746	2.543	2.704	150	149.6	784	13.11	13.23	718	491.9
21 DP-9		0.457	0.584	0.064	5.01	2.764	2.748	2.588	18.25	17.85	87	1.57	1,58	79	56.7
22 EP-1 23 EP-2		0.457 0.457	0.584 0.584	0.064	6,015 5.78	4.097 3.997	4,003 3,596	2.299	20	19.6	79	1.72	1,74	71	56.6
24 EP-2		0.457	0.584	0.064	5.78	4.008	4.003	2.317 2.298	81.47 9.1	81.07 8.7	328	7.11	7,17	292	235.2
25 EP-4		0.457	0.584	0.064	5.785	4.887	4.176	1.587	142.69	142.29	35	<u>0.77</u> 12.47	0,77 12,58	249	25.1 309
26 EP-4	1-4	0.457	0.584	0.064	6.195	4.997	4.893	1.584	22	21.6	48	1.9	1,91	39	46.9
27 EP-5		0.457	0.584	0.064	5.22	3.211	3.205	2.346	9.1	8.7	36	0.77	0.77	33	25.5
Total	1								1,070		4450	92.5	93.3	3990	3080
1 AP-1		0,61	0.762	0.076	EFOO	9.025	0.04	0.041							
2 AP-2		0.61	0.762	0.076	5.522 5.427	2.644 2.606	2.61 2.532	3.311	20	19.6	157	2.69	3.01	143	79.9
3 AP-3		0.61	0.762	0.076	5.332	2.528	2.484	<u>3.274</u> 	40 26	39.6 25.6	312 198	5,44	6.07	283	159.9
4 AP-4		0.61	0.762	0.076	5.232	2.48	2.313	3.251	85.78	85.38	663	3.52 11.72	3.92 13.08	179 600	102.6 342.7
5 AP-5	5-1	0.61	0.762	0.076	5.132	2.358	2,309	3.214	26	25.6	195	3.52	3.92	176	101.8
6 AP-6		0.61	0.762	0.076	4.928	2.182	2.138	3.184	26	25.6	192	3.52	3.92	173	101.1
7 AP-6		0.61	0.762	0.076	4.928	2.207	2.186	3.147	12.65	12.25	91	1.69	1.88	82	47.9
8 AP-7 9 BP-1		0.61	0.762	0.076	4.711	1.997	1.952	3.152	26	25.6	189	3.52	3.92	170	100.2
10 BP-2		0.61 0.61	0.762 0.762	0.076	5.332	2.129	2.085	3.641	26	25.6	241	3.52	3.92	222	112.8
11 BP-3		0.61	0.762	0.076	5.132 4.928	1.958	1.914	3,612 3,584	26 26	25.6 25.6	238 235	3.52	3.92	219	112
12 CP-1		0.61	0.762	0.076	5.132	2.579	2.535	2.991	26	25.6	173	3.52 3.52	3.92 3.92	216 154	111.3 96.1
13 CP-1	12-1	0.61	0.762	0.076	4.928	2.447	2.403	2.919	26	25.6	167	3.52	3.92	148	94.3
14 CP-1		0.61	0.762	0.076	4.711	1.64	1.596	3.509	26	25.6	227	3.52	3.92	208	109.4
15 CP-6		0.61	0.762	0.076	5.747	3.255	3.193	2.939	30	29.6	195	4.06	4.54	173	109.6
16 CP-8		- 0.61	0.762	0.076	5.42	2.82	2.754	3.049	35	34.6	242	4.75	5.3	216	131.9
18 IDP-4		< 0.61 0.61	0.762 0.762	0.076 0.076	5.332 5.34	2.75 3.225	2.706	3.02	26	25.6	176	3.52	3.92	157	96.9
19 DP-5		0.61	0.762	0.076	5.34	3.087	3,066	2.61 2.679	160 21.75	159.6 21.35	862 121	21.9	24.44	743 105	538.2
20 EP-3		0.61	0.762	0.076	5.46	3.59	3.321	2.42	55,01	54.61	261	2.93 7.5	3.27 8.37	221	73.5) 173.8
21 EP-4		0.61	0.762	0.076	5.275	3.314	3.184	2.442	27.3	26.9	131	3.69	4.12	111	86.2
22 EP-4		0.61	0.762	0.076	5.33	3.506	3.499	2.243	9.1	8.7	37	1.2	1.34	31	26.2
23 EP-4		0.61	0.762	0.076	5.38	4.172	4.008	1.706	5.43	5.03	14	0.69	0.78	11	12.5
24 EP~5		0.61	0.762	0.076	5.22	3.201	3.184	2.443	15.3	14.9	73	2.05	2.29	62	47.8
, otal						•——			810		5390	110	122	4810	2970
1 AP-5		0.762	0.94	0.089	5.03	2.309	2.138	3.265	87.49	87.09	732	14.74	19.7	637	366.3
2 BP-1		0.762	0.94	0.089	5.232	2.081	1.914	3.693	85.78	85.38	879	14.45	19.31	786	395.6
Total	<u> </u>								174		1620	29.2	39.1	1430	762
1 ;AP-6	-	0.914	1110	0.102	400	7 104	1050	- 0.000			··· · <u>- :</u>]
2 BP-2		0.914	1.118	0.102	4.82 5.03	2.134 1,91	1.952 1.739	3.269	93.6	93.2	839	18.76	28.14	701	408.9
3 CP-1		0.914	1.118	0.102	5.232	2.702	2.535	3.105	87,49 85,78	87.09 85.38	956 708	<u>17.53</u> 17.19	26.3 25.78	827 581	419.4 360.6
4 DP~5	5	0.914	1.118	0.102	4.983	3.065	3.039	2.423	37.88	37.48	212	7.55	11.32	156	132.8
5 DP-6		0.914	1.118	0.102	4.898	3.036	2.868	2.438	85.88	85.48	488	17.21	25.81	361	304
6 DP-7		0.914	1.118	0.102	5.145	2.865	2.722	2.843	150	149.6	1081	30.11	45.17	859	592.6
7 DP-8 8 DP-8		0.914	1.118	0.102	5.069	2.719	2.543	2.93	90	89.6	679	18.04	27.06	546	362.8
9 EP-5		0.914	1.118	0.102	4.872	2.9	2.722	2.553	90	89.6	548	18.04	27.06	415	329
Total		0.514	1.110	0.102	5.055	3.179	2.872	2.521	145 866	144.6	868 6380	29.1	43.66	653	526.2
									000		עפנט	174	261	5100	3440
1 BP-3		1.219	1,473	0.127	4.82	1.735	1.599	3.74	93.6	93.2	1166	27.46	46.55	933	485.9
2 BP-4		1.219	1.473	0.127	4.711	1.595	1.564	3.718	20	19.6	243	5.78	9.79	194	101.8
3 BP-5 4 CP-1		1.219 1.219	1.473	0.127	4.711	1.573	1.564	3,729	6	5.6	70	1.65	2.8	56	29.2
5 GP-1		1.219	1.473	0.127 0.127	5.03 4.82	2.531 2.399	2.403 2.217	3.15 3.099	87.49	87.09	837	25.66	43.5	619	402.7
6 DP-1		1.219	1.473	0.127	4.778	2.399	2.101	3.099	93.6 90.6	93.2 90.2	873	27.46	46.55	640	426.2
7 DP-9)	1.219	1.473	0.127	4.932	2.539	2.288	3.105	130.5	130.1	876 1223	26.58	45.05	650	419
8 EP-6		1.219	1.473	0.127	4.89	2.869	2.812	2.636	58	57.6	424	38.33 16.97	64.98 28.77	898 280	595.6 236.7
Total	<u> </u>								580		5720	170	288	4270	2700
l															

	QUANTITY CALCULATION C	OVER SHEET	
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	Pipe culvert 510 mm	Pay Item No. (BOQ)	2H-020501
Quantity Item	Backfill sand	Unit	· · · · · · · · · · · · · · · · · · ·

Volume of backfill sand was mustified by excreation volume minus pipe culvert volume, lean concrete volume and crushed stone volume.

References, Calculation Base and Revisions

See the Item of excavation and disposal of 47mm.
(24-0101)

Rev	Prepa	red	No. of	Chec	ked	Revie	ewed	Superseded
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NIPPON KOEI CO, LTD.

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1 100 1	(m)	(m)	_(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m3)	(m3)	(m3)	(m3)	(m2)
1 ICP-1 2 ICP-2	0.457 0.457	0.584	0.064	5,55	3.599	3.545	2.312	17	16.6	67	1.46	1.47	60	48.1
3 CP-3	0.457	0.584 0.584	0.064	5.487 5.437	3.543 3.503	3.505 3.431	2.297	20	19.6	78	1.72	1,74	70	56.5
4 CP-4	0.457	0.584	0.064	5.537	3.429	3.391	2.461	35 20	34.6 19.6	139 88	3,04 1.72	3.06	124	100
5 CP-4-1	0.457	0.584	0.064	5.487	3.469	3.431	2.371	20	19.6	83	1.72	1.74 1.74	80 75	59.7
6 CP-5	0.457	0,584	0.064	5.637	3.389	3.257	2.648	70	69.6	352	6.1	6.16	321	58 2 2 5
7 CP-5-1	0.457	0.584	0.064	5.637	3.405	3.391	2.573	8	7.6	37	0.67	0.68	34	24
8 CP-7	0.457	0.584	0.064	5.682	2.891	2.824	3,158	35	34.6	237	3.04	3.06	222	129.5
9 GP-8-1	0.457	0.584	0,064	5.507	2.955	2.824	2.951	68	67.6	411	5.93	5.98	381	239
10 CP-8-1-1 11 CP-8-2	0.457	0.584	0,064	5.55	3.019	2.957	2.896	30	29.6	175	2.6	2.62	162	103.1
12 CP-8-2-1	0.457 0.457	0.584 0.584	0.064	5.507	2.995	2.957	2.865	20	19.6	114	1,72	1.74	108	67,7
13 CP-8-3	0.457	0.584	0.064	5.555 5.507	3.021	2.997 2.997	2.88 2.808	10	9.6	56	0.85	0.85	52	33.3
14 CP-8-4	0.457	0.584	0.064	5.507	3.095	3.071	2.758	35 10	34.6 9.6	194 52	3.04	3,06	179	117.4
15 DP-1	0.457	0.584	0.064	5.875	4.997	4.253	1.584	129,19	128.79	281	0.85 11.29	0.85 11.39	48 224	32,1
16 IDP-2	0.457	0.584	0.064	5.35	3.347	3.249	2.386	20.82	20.42	87	1.79	1.81	78	279.3 60.7
17 IDP-3	0.457	0.584	0.064	5.27	3.245	3.226	2.368	24.13	23.73	100	2.08	2.1	90	70.1
18 DP-4-1	0.457	0.584	0.064	5.34	3.247	3.226	2,437	21.75	21.35	94	1.88	1.89	85	64.5
19 DP-7-1	0.457	0,584	0.064	5.17	2.883	2.868	2.628	18.25	17.85	90	1.57	1.58	82	57.4
20 DF-9-1	0.457	0.584	0.064	5.015	2.746	2.543	2.704	150	149.6	784	13.11	13.23	718	491.9
21 DP-9-2 22 EP-1	0.457	0.584	0.064	5.01	2.764	2.748	2.588	18.25	17.85	87	1.57	1.58	79	56.7
23 EP-2	0.457 0.457	0.584	0.064	6.015 5.78	4.097	4.003	2.299	20	19.6	79	1.72	1.74	71	56.6
24 EP-2-1	0.457	0.584	0.064	5.97	3.997 4.008	3.596 4.003	2.317 2.298	81.47 9.1	81.07	328	7.11	7.17	292	235.2
25 IEP-4-3	0.457	0.584	0.064	5.785	4.887	4.176	1.587	142.69	8.7 142.29	35 312	0.77 12.47	0.77	32	25,1
26 EP-4-4	0.457	0.584	0.064	6.195	4.997	4,893	1.584	22	21.6	48	12.47	12.58 1.91	249 39	309
27 EP-5-2	0.457	0.584	0.064	5.22	3.211	3.205	2.346	9.1	8.7	36	0.77	0.77	33	46.9 25.5
Total								1,070		4450	92.5	93.3	3990	3080
1 112		A = = =												
1 AP-1 2 AP-2	0.61	0.762	0.076	5.522	2.644	2.61	3.311	20	19.6	157	2.69	3.01	143	79.9
3 AP-3	0.61	0.762	0.076	5.427	2.606	2.532	3.274	40	39.6	312	5.44	6.07	283	159.9
4 AP-4	0.61	0.762	0.076	5.332 5.232	2.528 2.48	2.484	3.242	26	25.6	198	3.52	3.92	179	102.6
5 AP-5-1	0.61	0.762	0.076	5.132	2.358	2.313	3.251 3.214	85.78 26	85.38 25.6	663	11.72	13.08	600	342.7
6 AP-6-1	0.61	0.762	0.076	4.928	2.182	2.138	3.184	26	25.6	195 192	3,52 3,52	3.92 3.92	176 173	101.8
7 AP-6-2	0.61	0.762	0.076	4.928	2.207	2.186	3.147	12.65	12.25	91	1.69	1.88	82	101.1 47.9
8 AP-7~1	0.61	0.762	0.076	4.711	1.997	1.952	3.152	26	25.6	189	3.52	3.92	170	100.2
9 BP-1-1	0.61	0.762	0.076	5.332	2.129	2.085	3.641	26	25.6	241	3.52	3.92	222	112.8
10 BP-2-1	0.61	0.762	0.076	5.132	1.958	1,914	3.612	26	25.6	238	3.52	3.92	219	112
11 BP-3-1 12 CP-11-1	0.61	0.762	0.076	4.928	1.782	1.738	3.584	26	25.6	235	3.52	3.92	216	111.3
13 ICP-12-1	0.61 0.61	0.762	0.076	5.132	2.579	2.535	2.991	26	25.6	173	3.52	3.92	154	96.1
14 ICP-13-1	0.61	0.762	0.076 0.076	4.928 4.711	2,447 1.64	2.403	2.919	26	25.6	167	3.52	3.92	148	94.3
15 CP-6	0.61	0.762	0.076	5.747	3.255	1.596 3.193	3.509 2.939	26 30	25.6 29.6	227	3.52	3.92	208	109.4
16 CP-8	0.61	0.762	0.076	5.42	2.82	2.754	3.049	35	34.6	195 242	4.06 4.75	4.54 5.3	173 216	109.6
17 CP-9	0.61	0.762	0.076	5.332	2.75	2.706	3.02	26	25,6	176	3.52	3.92	157	131.9 96.9
18 IDP-4	0.61	0.762	0.076	5.34	3.225	3.066	2.61	160	159.6	862	21.9	24.44	743	538.2
19 IDP-5-1	0.61	0.762	0.076	5.34	3.087	3.066	2.679	21.75	21.35	121	2.93	3.27	105	73.5
20 EP-3	0.61	0.762	0.076	5.46	3.59	3.321	2.42	55.01	54.61	261	7.5	8.37	221	173.8
21 EP-4 22 EP-4-1	0.61	0.762	0.076	5.275	3.314	3.184	2.442	27.3	26.9	131	3.69	4.12	111	86.2
23 EP-4-2	0.61	0.762 0.762	0.076	5.33	3.506	3,499	2.243	9.1	8.7	37	1.2	1.34	31	26.2
24 IEP-5-1	0.61	0.762	0.076	5.38 5.22	4.172 3.201	4.008 3.184	1.706 2.443	5.43	5.03	14	0.69	0.78	11	12.5
Total			0.070	3.22	9.201	0.104	2.443	15.3 810	14.9	73 5390	2.05 110	2.29	62	47.8
										3030	110	122	4810	2970
1 AP-5	0.762	0.94	0.089	5.03	2.309	2.138	3.265	87.49	87.09	732	14.74	19,7	637	366.3
2 BP-1	0.762	0.94	0.089	5.232	2.081	1.914	3.693	85.78	85.38	879	14.45	19.31	786	395.6
Total								174		1620	29.2	39.1	1430	762
1 :AP-6	0.914	1.118	0.102	400	2 124	1.050	2 200	02.5	00.5	000				
2 BP-2	0.914	1.118	0.102	4.82 5.03	2.134 1.91	1.952 1.739	3.269 3.697	93.6	93.2	839	18.76	28.14	701	408.9
3 CP-10	0.914	1.118	0.102	5.232	2.702	2.535	3.105	87.49 85.78	87.09 85.38	956 708	17.53	26.3	827	419.4
4 DP-5	0.914	1.118	0.102	4.983	3.065	3.039	2.423	37.88	37.48	212	17.19 7.55	25.78 11.32	581 156	360.6
5 DP-6	0.914	1.118	0.102	4.898	3.036	2.868	2.438	85.88	85.48	488	17.21	25.81	361	132.8 304
6 DP-7	0.914	1.118	0.102	5.145	2.865	2.722	2.843	150	149.6	1081	30.11	45,17	859	592.6
7 DP-8	0.914	1.118	0.102	5.069	2.719	2.543	2.93	90	89.6	679	18.04	27.06	546	362.8
8 DP-8-1 9 EP-5	0.914	1.118	0.102	4.872	2.9	2.722	2.553	90	89.6	548	18.04	27.06	415	329
Total	0.914	1.118	0.102	5.055	3.179	2.872	2.521	145	144.6	868	29.1	43.66	653	526.2
10141					····			866		6380	174	261	5100	3440
1 8P-3	1.219	1.473	0.127	4.82	1.735	1.599	3.74	93.6	93.2	1166	27.46	40.55		
2 BP-4	1.219	1.473	0.127	4.711	1.595	1.564	3.718	20	19.6	1166 243	27.46 5.78	46.55	933	485.9
3 8P-5-1	1.219	1.473	0.127	4.711	1.573	1.564	3.729	6	5.6	70	1.65	9.79 2.8	<u>194_</u> 56	101.8
4 CP-11	1.219	1.473	0.127	5.03	2.531	2.403	3.15	87.49	87.09	837	25.66	43.5	619	29.2 402.7
5 CP-12	1.219	1.473	0.127	4.82	2.399	2.217	3.099	93.6	93.2	873	27.46	46.55	640	426.2
6 DP-10 7 DP-9	1.219	1.473	0.127	4.778	2.284	2.101	3.172	90.6	90.2	876	26.58	45.05	650	419
8 EP-6	1.219	1.473	0.127	4.932	2.539	2.288	3.105	130.5	130.1	1223	38.33	64.98	898	595.6
Total	1.219	1.473	0.127	4.89	2.869	2.812	2.636	58	57.6	424	16.97	28,77	280	236.7
10001								580		5720	170	288	4270	2700
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	QUANTITY CALCULATION C		
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	Dipe culvert 610 mm	Pay item No. (BOQ)	2H-010502
Quantity Item	Compaction	Unit	M _z .

Area of compaction was computed by multiplying compaction length by actual length.

References, Calculation Base and Revisions

See the item of excavation and district of it/man.

(2H-010/)

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(a) NIPPON KOEI CO, LTD.

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	D _{in}	D _{out}	t ()	<u>g</u>	Y _{in}	Yout	H	L	Lac	Vex	Vos	Vic	Vbf	Cmpct
1 'CP-1	0.457	(m) 0.584	(m) 0.064	(m) 5.55	(m) 3.599	(m) 3.545	(m) 2.312	(m) 17	(m)	(m3)	(m3)	(m3)	(m3)	(m2)
2 CP-2	0.457	0.584	0.064	5.487	3.543	3,505	2.297	20	16.6 19.6	67 78	1.46	1.47	60	48.1
3 CP-3	0.457	0.584	0.064	5.437	3.503	3,431	2.304	35	34.6	139	3.04	1.74 3.06	70 124	56.5 100
4 :CP-4	0.457	0.584	0.084	5.537	3.429	3.391	2.461	20	19.6	88	1.72	1.74	80	59.7
5 :CP-4-1	0.457	0.584	0.064	5.487	3.469	3.431	2.371	20	19.6	83	1.72	1,74	75	58
6 iCP-5	0.457	0.584	0.064	5.637	3,389	3.257	2.648	70	69.6	352	6.1	6.16	321	225
7 CP-5-1	0.457	0.584	0.064_	5.637	3.405	3.391	2.573	8	7.6	37	0.67	0,68	34	24
8 CP-7	0.457	0.584	0.064	5.682	2.891	2.824	3.158	35	34.6	237	3.04	3,06	222	129.5
9 CP-8-1	0.457	0.584	0.064	5.507	2.955	2.824	2.951	68	67.6	411	5,93	5.98	381	239
10 ICP-8-1-1 11 ICP-8-2	0.457	0.584	0.064	5.55	3,019	2.957	2.896	30	29.6	175	2.6	2.62	162	103.1
12 ICP-8-2-1	0.457 0.457	0.584	0.064	5.507 5.555	2,995 3,021	2.957	2.865	20	19.6	114	1.72	1.74	106	67.7
13 CP-8-3	0.457	0.584	0.064	5.507	3.021	2.997 2.997	2.88 2.808	10	9.6	56	0.85	0,85	52	33,3
14 CP-8-4	0.457	0.584	0.064	5.507	3.095	3.071	2.758	35 10	34.6 9.6	194	3.04	3.06	179	117.4
15 DP-1	0.457	0.584	0.064	5.875	4.997	4.253	1.584	129.19	128.79	52 281	0.85 11.29	0,85 11,39	48	32.1
16 DP-2	0.457	0.584	0.064	5,35	3.347	3.249	2.386	20.82	20.42	87	1.79	1.81	224 78	279.3 60.7
17 IDP-3	0.457	0,584	0.064	5.27	3.245	3.226	2.368	24.13	23.73	100	2.08	2.1	90	70.1
18 DP-4-1	0.457	0.584	0.064	5.34	3.247	3.226	2.437	21.75	21.35	94	1.88	1.89	85	64.5
19 IDP-7-1	0.457	0.584	0.064	5.17	2,883	2.868	2.628	18.25	17.85	90	1.57	1.58	82	57.4
20 IDP-9-1	0.457	0.584	0,064	5.015	2.746	2.543	2.704	150	149.6	784	13.11	13.23	718	491.9
21 DP-9-2	0.457	0.584	0.064	5.01	2.764	2.748	2.588	18.25	17.85	87	1.57	1.58	79	56.7
22 EP-1	0.457	0.584	0.064	6.015	4.097	4.003	2.299	20	19.6	79	1.72	1.74	71	56.6
23 IEP-2	0.457	0.584	0.064	5.78	3.997	3.596	2.317	81.47	81.07	328	7,11	7.17	292	235.2
24 EP-2-1 25 EP-4-3	0.457	0.584	0.064	5.97	4.008	4.003	2.298	9.1	8.7	35	0.77	0.77	32	25.1
26 EP-4-4	0.457	0.584	0.064	5.785	4.887	4.176	1.587	142.69	142.29	312	12.47	12.58	249	309
27 EP-5-2	0 <u>.457</u> 0.457	0.584	0.064	6.195 5.22	4.997 3.211	4.893 3.205	1.584	22	21.6	48	1.9	1,91	39	46.9
Total	0.437	0.564	0.004	5.22	3.211	3.205	2.346	9.1	8.7	36	0.77	0.77	33	25.5
								1,070		4450	92.5	93.3	3990	3080
1 AP-1	0.61	0.762	0.076	5.522	2.644	2.61	3.311	20	19.6	157	2.69	3.01	143	70.0
2 AP-2	0.61	0.762	0.076	5.427	2.606	2.532	3.274	40	39,6	312	5.44	6.07	283	79.9
3 AP-3	0.61	0.762	0.076	5.332	2.528	2.484	3.242	26	25.6	198	3.52	3.92	179	159.9 102.6
4 AP-4	0.61	0.762	0.076	5.232	2.48	2.313	3.251	85.78	85.38	663	11,72	13.08	600	342.7
5 AP-5-1	0.61	0.762	0.076	5.132	2,358	2.309	3.214	26	25.6	195	3,52	3.92	176	101.8
6 AP-6-1	0.61	0.762	0.076	4.928	2.182	2.138	3.184	26	25.6	192	3.52	3.92	173	101.1
7 AP-6-2	0.61	0.762	0.076	4.928	2.207	2.186	3.147	12.65	12.25	91	1.69	1.88	82	47.9
8 AP-7-1	0.61	0.762	0.076	4.711	1.997	1.952	3.152	26	25.6	189	3.52	3,92	170	100.2
9 BP-1-1	0.61	0.762	0.076	5.332	2.129	2.085	3.641	26	25.6	241	3.52	3.92	222	112.8
10 BP-2-1	0.61	0.762	0.076	5.132	1.958_	1.914	3.612	26	25.6	238	3.52	3.92	219	112
11 BP-3-1 12 CP-11-1	0.61	0.762	0.076	4.928	1.782	1.738	3.584	26	25.6	235	3.52	3.92	216	111.3
13 ICP-12-1	0.61	0.762	0.076	5.132	2.579	2.535	2.991	26	25.6	173	3.52	3.92	154	96.1
14 CP-13-1	0.61 0.61	0.762 0.762	0.076 0.076	4.928 4.711	2.447	2.403	2.919	26	25.6	167	3.52	3,92	148	94.3
15 CP-6	0.61	0.762	0.076	5.747	1.64 3.255	1.596 3.193	3.509 2.939	26 30	25.6 29.6	227	3.52	3.92	208	109.4
16 ICP-8	- 0.61	0.762	0.076	5.42	2.82	2.754	3.049	35	34.6	195 242	4.06 4.75	4.54	173	109.6
17 ICP-9	9.61	0.762	0.076	5.332	2.75	2.706	3.02	26	25.6	176	3.52	5.3	216 157	131.9
18 :DP-4	0.61	0.762	0.076	5.34	3.225	3.066	2.61	160	159.6	862	21.9	3.92 24.44	743	96.9 538.2
19 DP-5-1	0.61	0.762	0.076	5.34	3.087	3.066	2.679	21.75	21.35	121	2.93	3.27	105	73.5
20 EP-3	0.61	0.762	0.076	5.46	3.59	3.321	2.42	55.01	54.61	261	7.5	8.37	221	173.8
21 EP-4	0.61	0.762	0.076	5.275	3.314	3.184	2.442	27.3	26.9	131	3.69	4.12	111	86.2
22 EP-4-1	0.61	0.762	0.076	5.33	3.506	3.499	2.243	9.1	8.7	37	1.2	1.34	31	26.2
23 EP-4-2	0.61	0.762	0.076	5.38	4.172	4.008	1.706	5.43	5.03	14	0.69	0.78	11	12.5
24 EP-5-1	0.61	0.762	0.076	5.22	3,201	3.184	2.443	15.3	14.9	73	2,05	2.29	62	47.8
Total								810		5390	110	122	4810	2970
1 AP-5	0.762	0.94	0.000	5.03	1 200	2100	2.005	03.40				 		
2 BP-1	0.762	0.94	0.089	5.232	2.309	2.138 1.914	3.265	87.49	87.09	732	14.74	19.7	637	366.3
Total	3.702	0.54	0.003	U.EUZ_	2.001	1.514	3.693	85.78 174	85.38	879	14,45	19.31	786	395.6
								1/4		1620	29.2	39.1	1430	762
1 AP-6	0.914	1.118	0.102	4.82	2.134	1.952	3.269	93.6	93.2	839	18.76	28.14	701	408.9
2 BP-2	0.914	1.118	0.102	5.03	1.91	1.739	3.697	87.49	87.09	956	17.53	26.3	827	419.4
3 CP-10	0.914	1.118	0.102	5.232	2.702	2.535	3.105	85.78	85.38	708	17.19	25.78	581	360.6
4 DP~5	0.914	1.118	0.102	4.983	3.065	3.039	2.423	37.88	37.48	212	7.55	11.32	156	132.8
5 DP-6	0.914	1.118	0.102	4.898	3.036	2.868	2.438	85.88	85.48	488	17.21	25.81	361	304
6 DP-7	0.914	1.118	0.102	5.145	2.865	2.722	2.843	150	149.6	1081	30.11	45.17	859	592.6
7 DP-8	0,914	1.118	0.102	5.069	2.719	2.543	2.93	90	89.6	679	18.04	27.06	546	362.8
8 DP-8-1	0.914	1.118	0.102	4.872	2.9	2.722	2.553	90	89.6	548	18.04	27.06	415	329
9 EP-5 Total	0.914	1.118	0,102	5.055	3.179	2.872	2.521	145	144.6	868	29.1	3 43.66	653	526,2
iotai								866		6380	174	261	5100	3440
1 BP-3	1.219	1.473	0.127	4.82	1.735	1.599	274	00.0		1777			~	
2 BP-4	1.219	1.473	0.127	4.711	1.735	1.564	3.74 3.718	93.6	93.2	1166	27.46	46.55	933	485.9
3 BP-5-1	1.219	1.473	0.127	4.711	1.573	1.564	3.718	20 6	19.6	243	5.78	9.79	194	101.8
4 CP-11	1.219	1.473	0.127	5.03	2.531	2.403	3.15	87.49	5.6 87.09	70 837	1.65	2.8	56	29.2
5 CP-12	1.219	1.473	0.127	4.82	2.399	2.217	3.099	93.6	93.2	873	25.66	43.5	619	402.7
6 DP-10	1.219	1.473	0.127	4.778	2.284	2.101	3.172	90.6	90.2	876	27.46 26.58	46.55	640	426.2
7 DP-9	1.219	1.473	0.127	4.932	2.539	2.288	3.105	130.5	130.1	1223	38.33	45.05 64.98	650 898	419 505 6
8 EP-6	1.219	1.473	0.127	4.89	2.869	2.812	2.636	58	57.6	424	16.97	28.77	280	595.6 236.7
Total								580		5720	170	288	4270	2700
Il										· 			1210	2,00