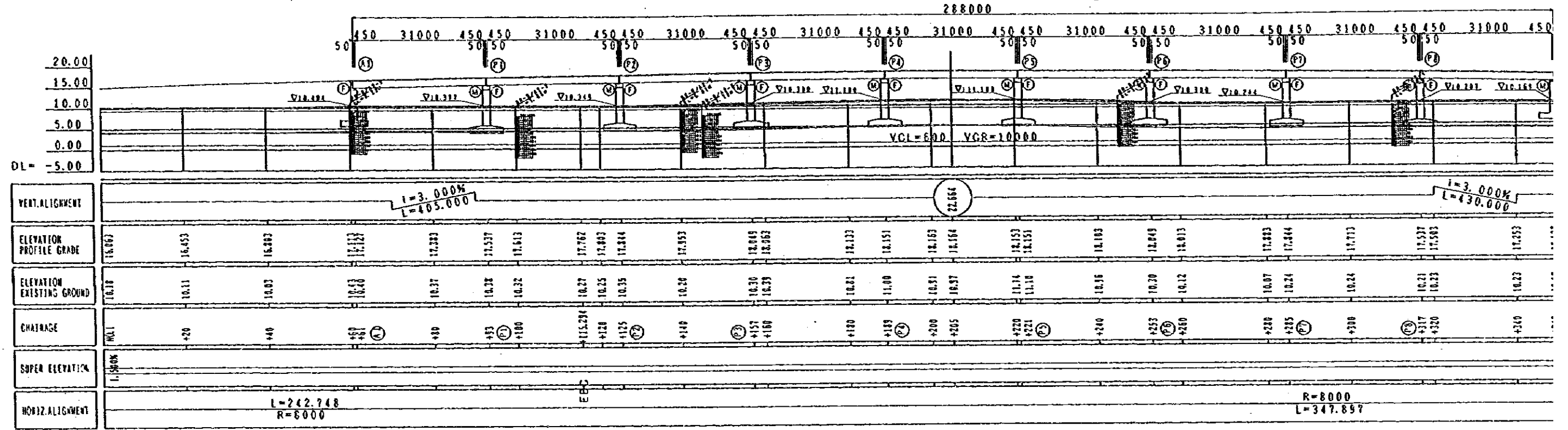
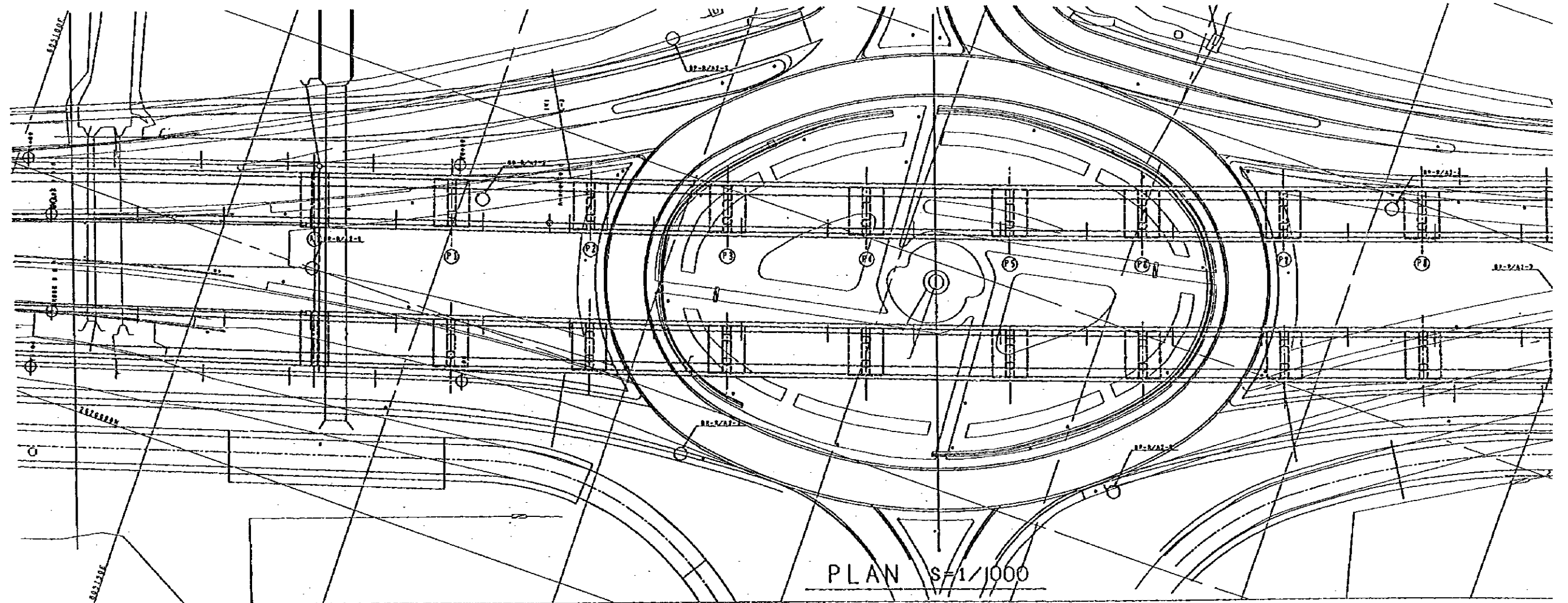


STRUCTURE
-BRIDGE

GENERAL VIEW RA/2 A'NA

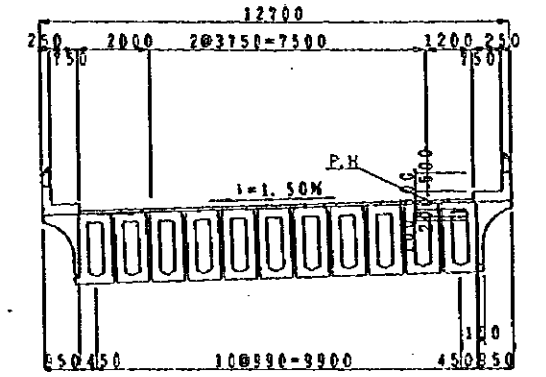
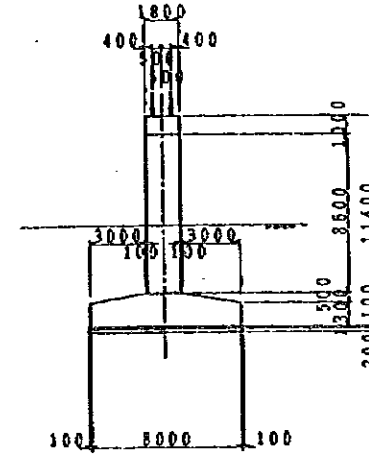
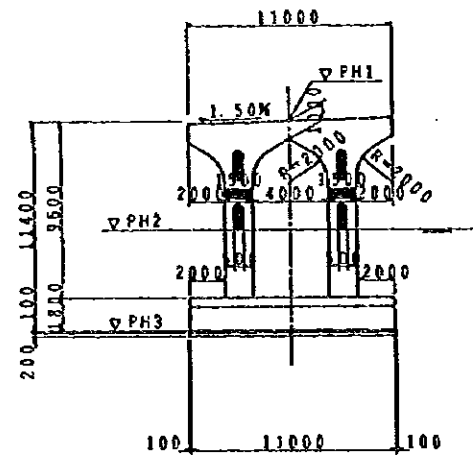
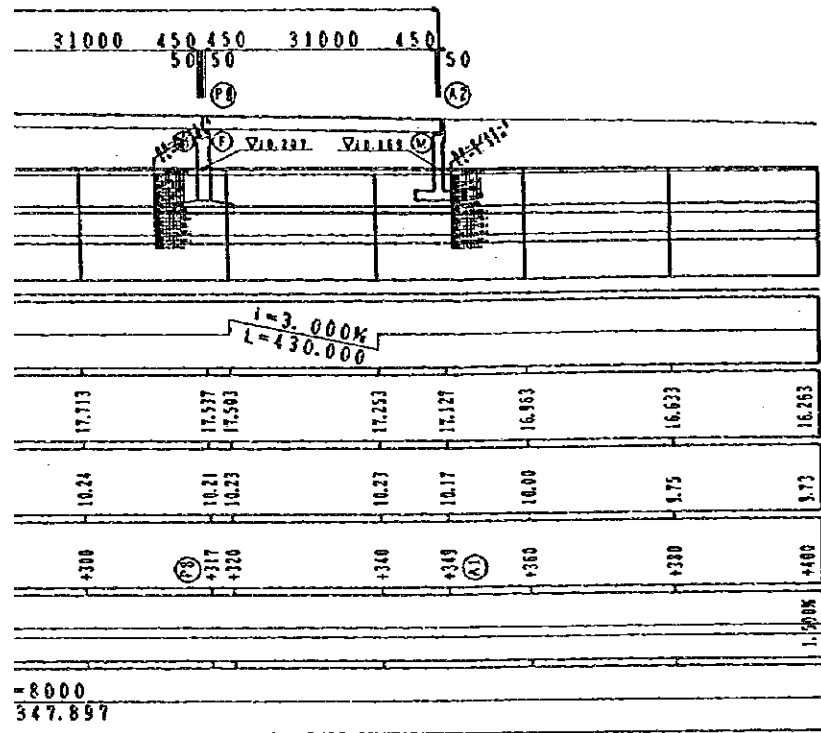


PROFILE (A-LINE) S=1/1000



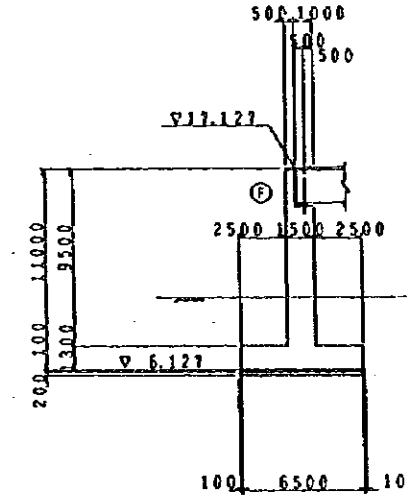
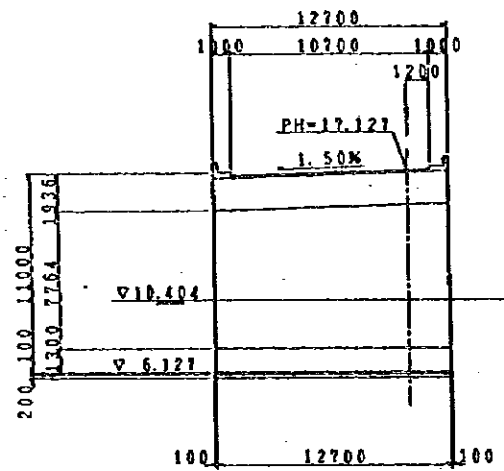
NOTES:

W RA/2 A'NASEEM GARDEN (A-LINE)



SECTION OF PIERS S=1/400

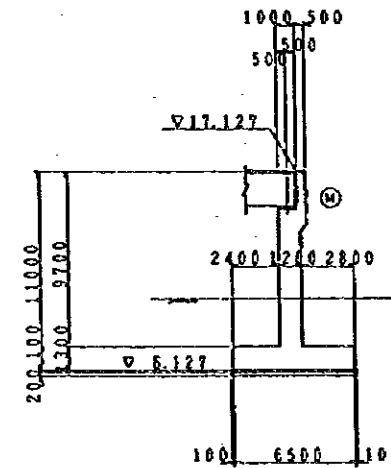
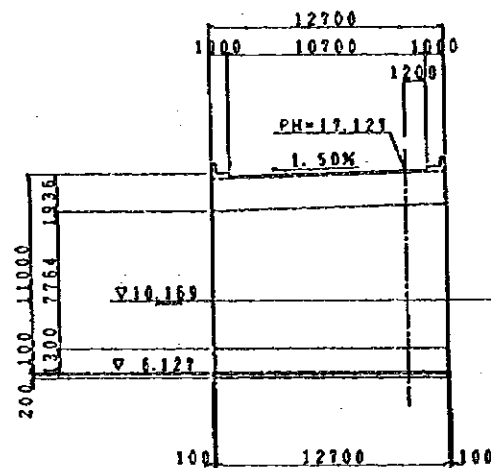
SECTION OF PC BOX GIRDER S=1/400



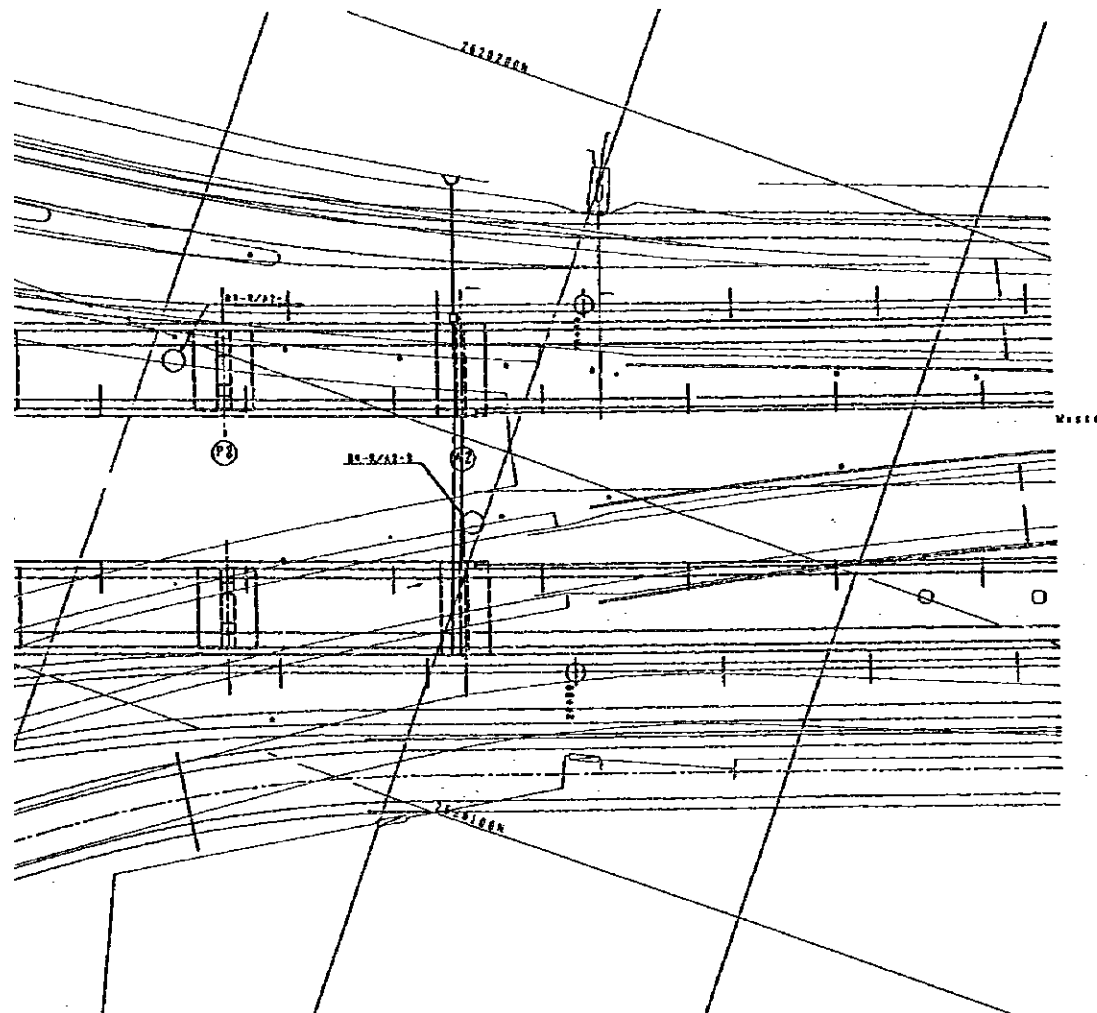
SECTION OF A1 ABUTMENT S=1/400

LIST OF PIER ELEVATION

	PH1	PH2	PH3
P1	15.522	10.377	4.122
P2	15.829	10.349	4.429
P3	16.034	10.300	4.634
P4	16.136	11.000	4.736
P5	16.136	11.100	4.736
P6	16.034	10.300	4.634
P7	15.829	10.244	4.429
P8	15.522	10.207	4.122



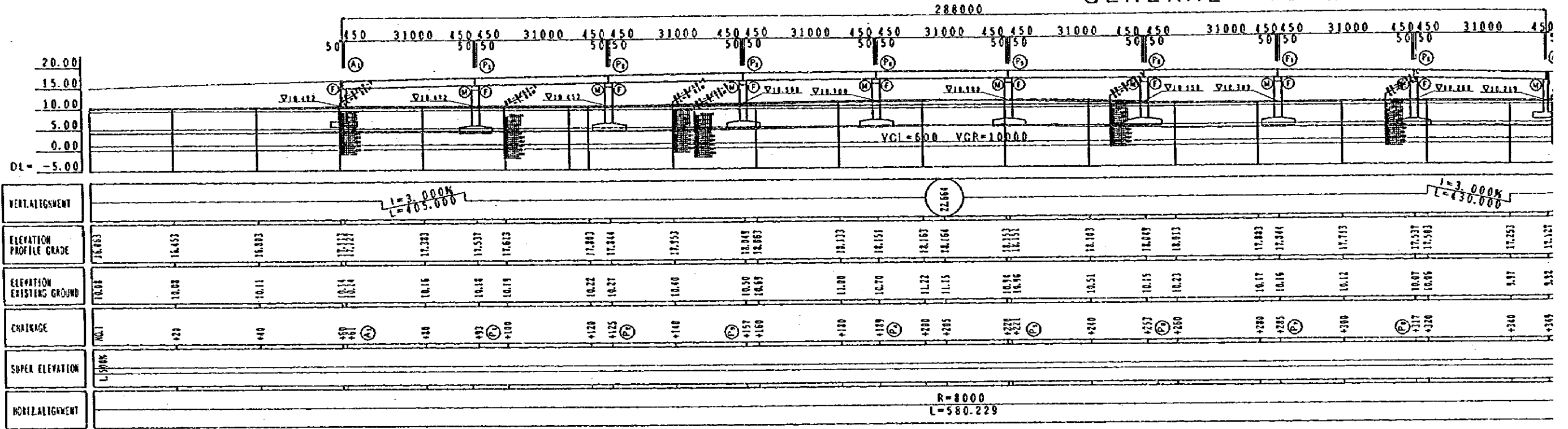
SECTION OF A2 ABUTMENT S=1/400



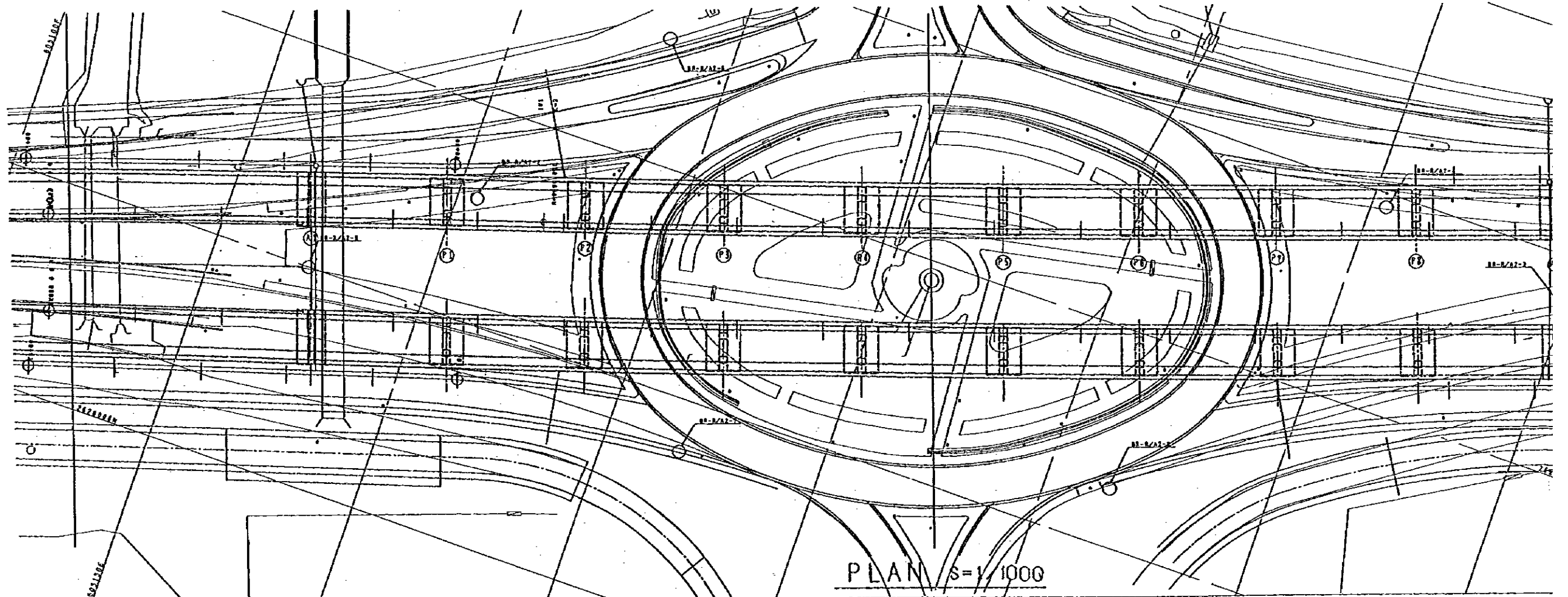
JAPAN INTERNATIONAL COOPERATION AGENCY
(JICA)
JICA STUDY TEAM
PACIFIC CONSULTANTS INTERNATIONAL
FUKUYAMA CONSULTANTS INTERNATIONAL

CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
TITLE: GENERAL VIEW RA/2 A'NASEEM GARDEN(A-LINE)
DATE: _____ DWGNO. B-1

GENERAL VIEW RA/2 A'N



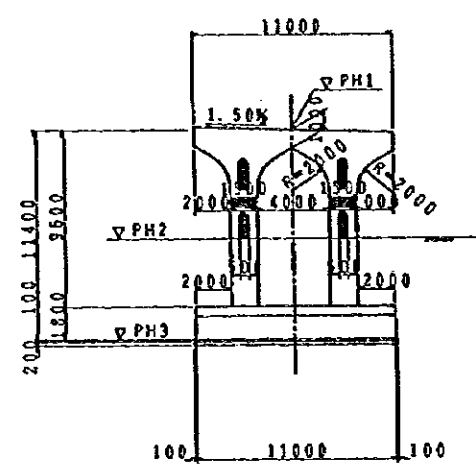
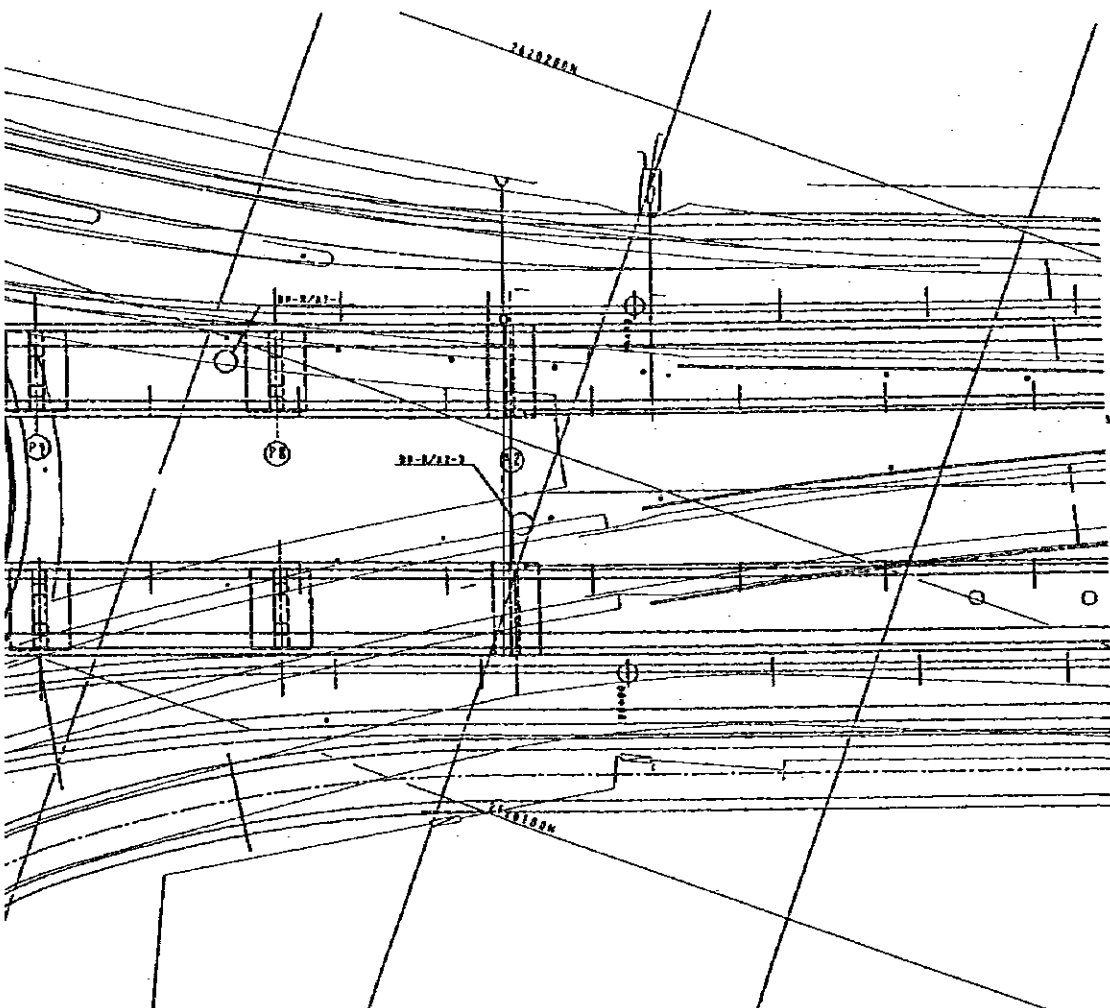
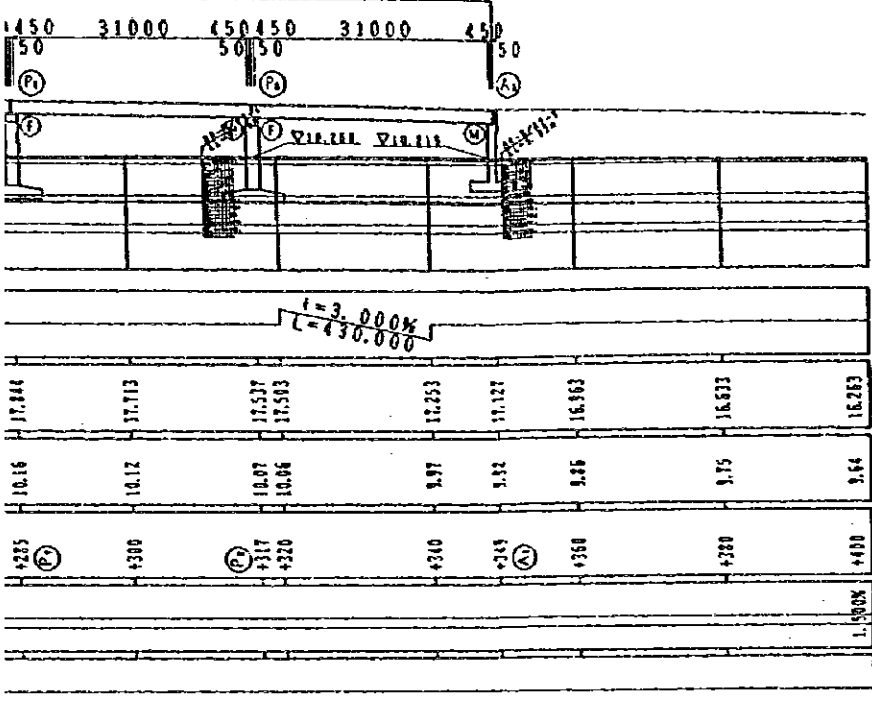
PROFILE (B-LINE) S=1/1000



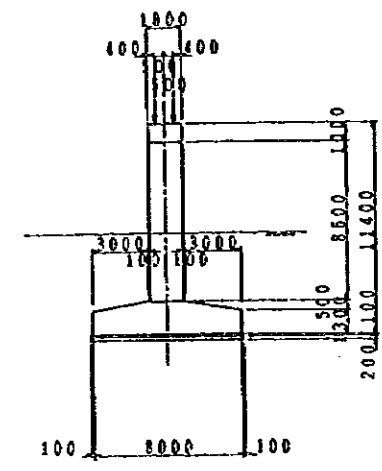
PLAN S=1/1000

NOTES:

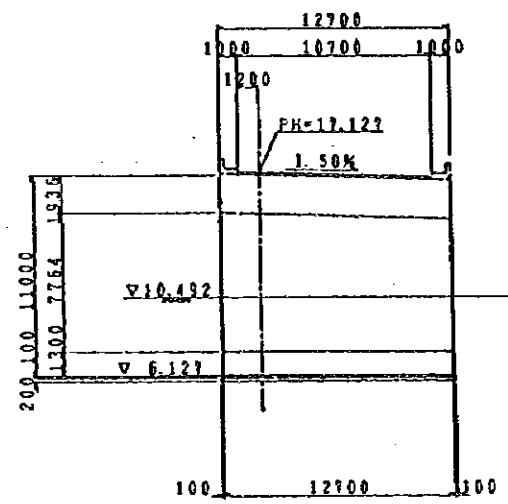
VIEW RA/2 A'NASEEM GARDEN (B-LINE)



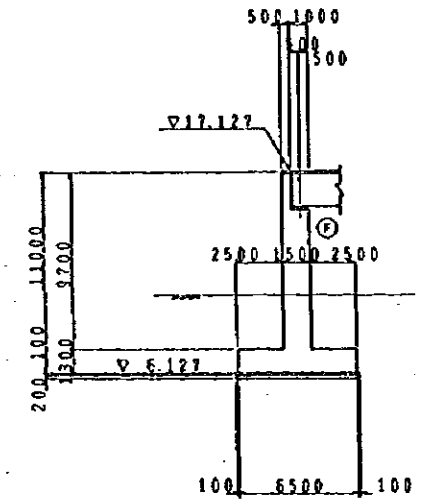
SECTION OF PIERS S=1/400



SECTION OF PC BOX GIRDER S=1/400



SECTION OF A1 ABUTMENT S=1/400

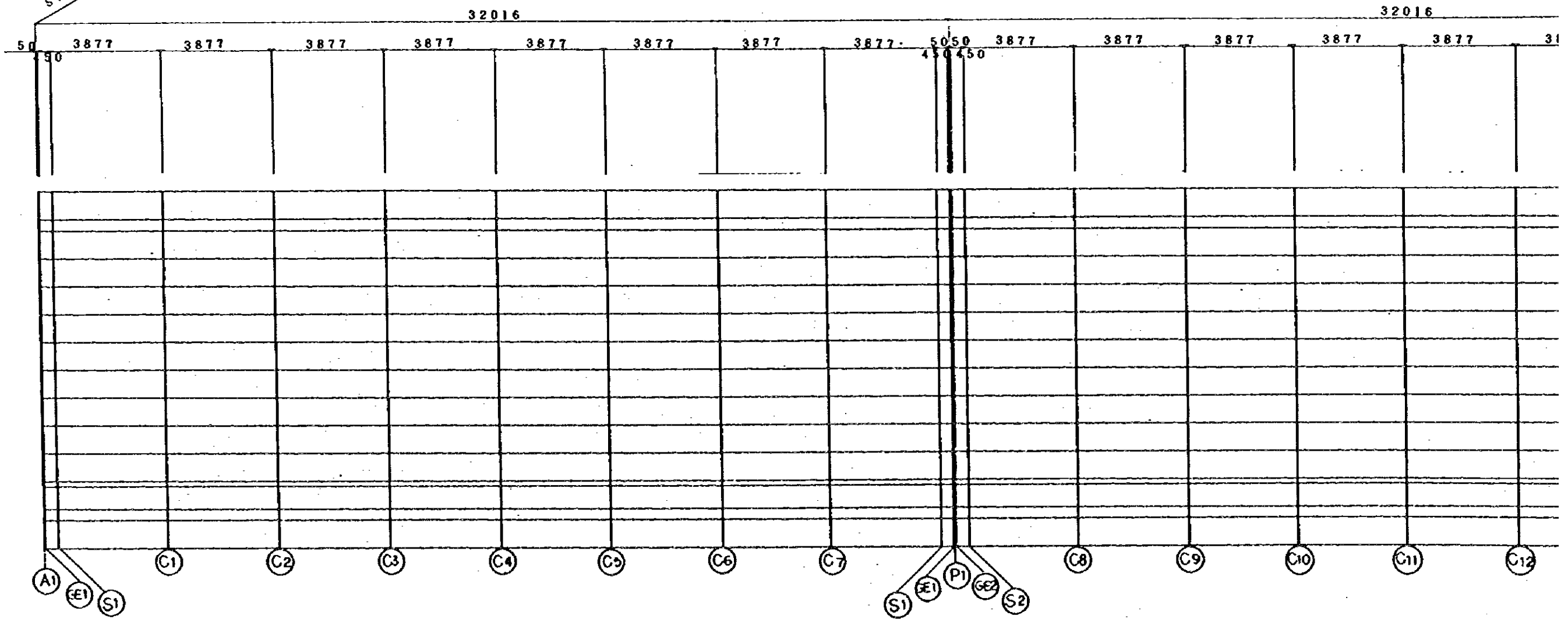


SECTION OF A2 ABUTMENT S=1/400

LIST OF PIER ELEVATION

	PH1	PH2	PH3
P1	15.522	10.472	4.122
P2	15.829	10.452	4.429
P3	16.034	10.500	4.634
P4	16.136	10.700	4.736
P5	16.136	10.900	4.736
P6	16.034	10.150	4.634
P7	15.829	10.302	4.429
P8	15.522	10.260	4.122

STA NO. 1+61.000



NOTES:

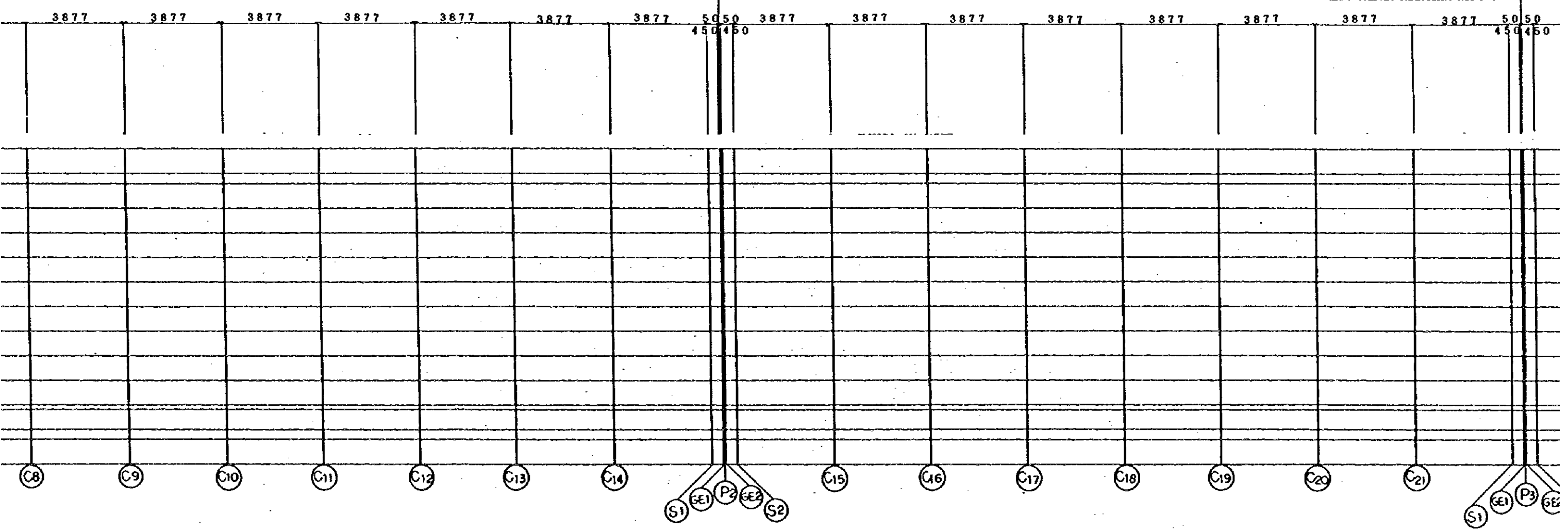
32016

32016

3877 3877 3877 3877 3877 3877 3877 5050 3877 3877 3877 3877 3877 3877 3877 5050

450450

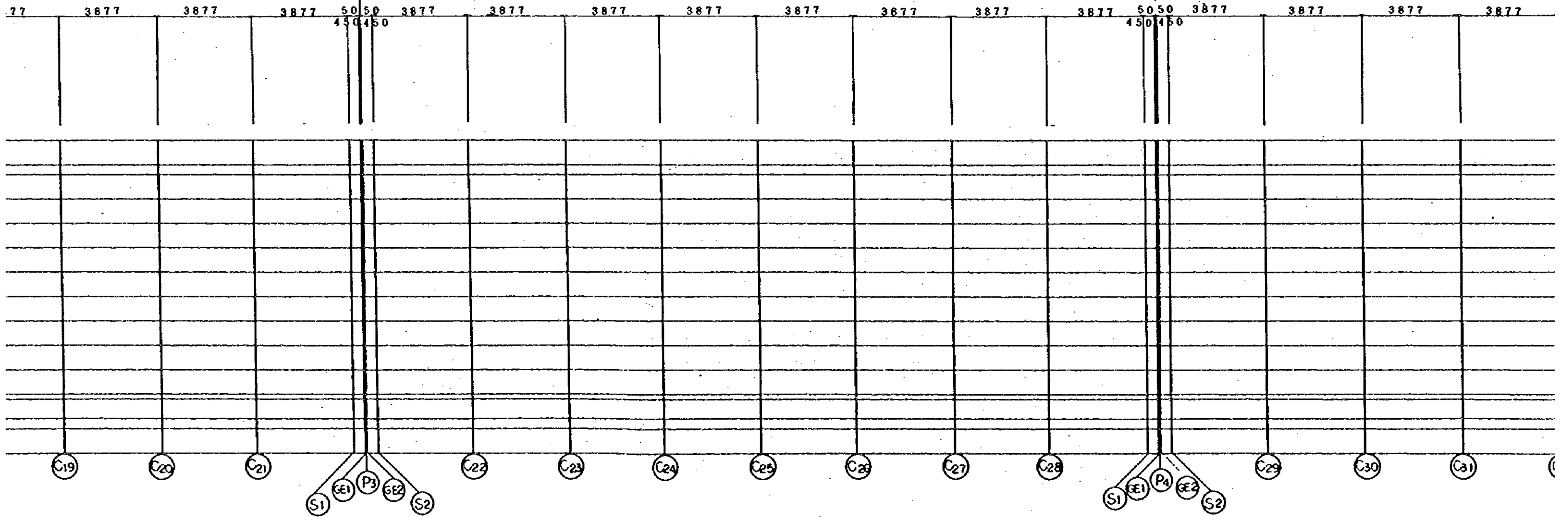
450450



R/A-2A'

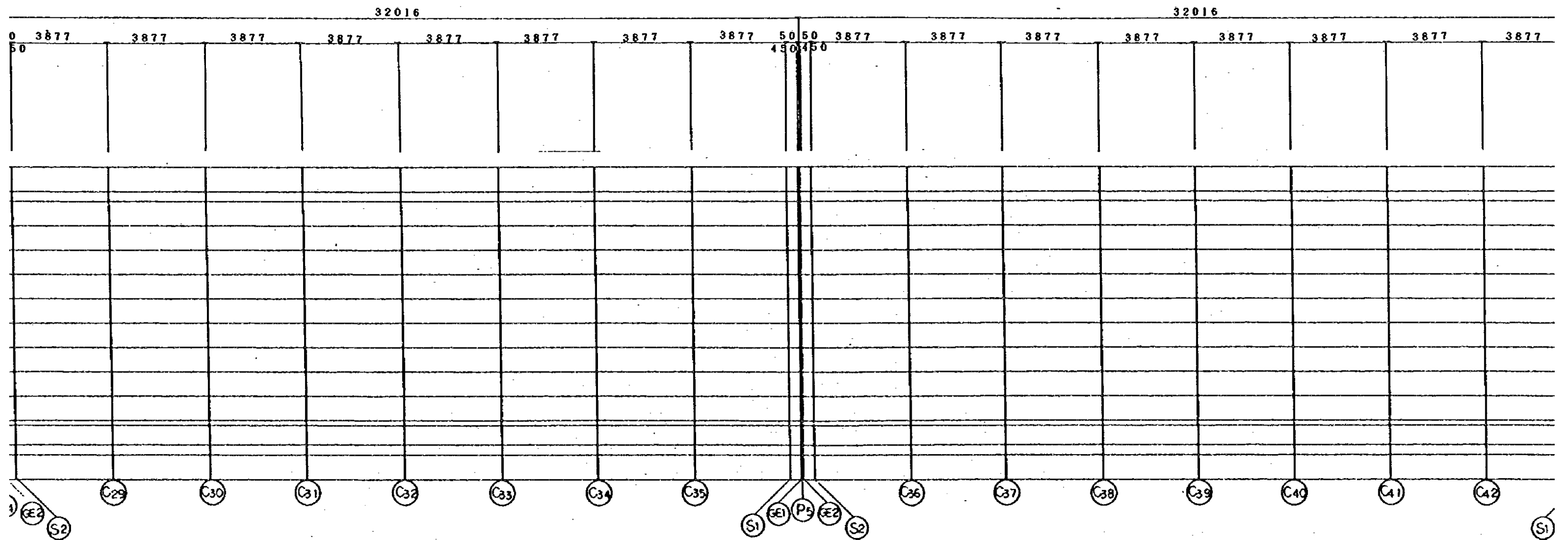
32016

32



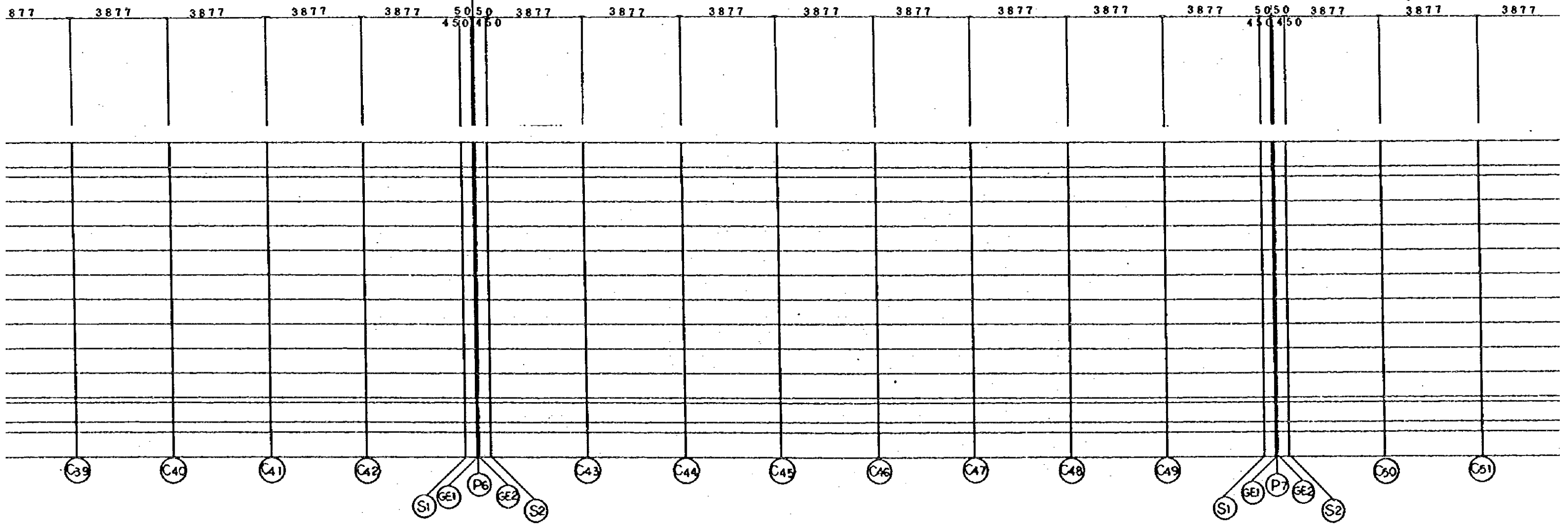
R/A-2A' NASEEM GARDEN

A-LINE



32016

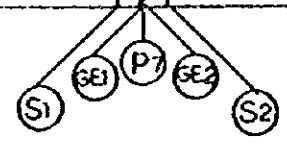
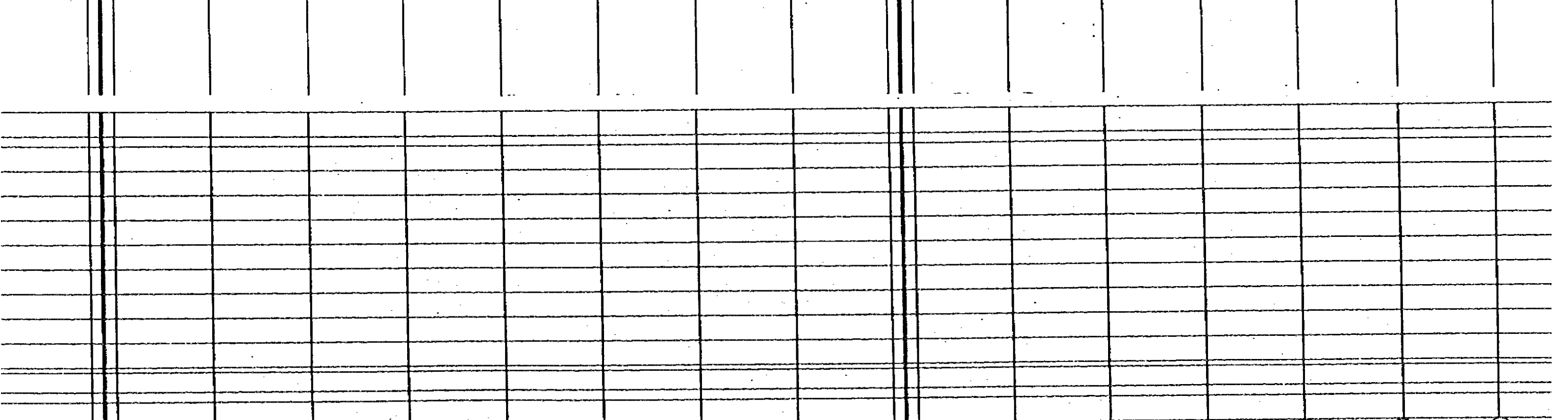
32016



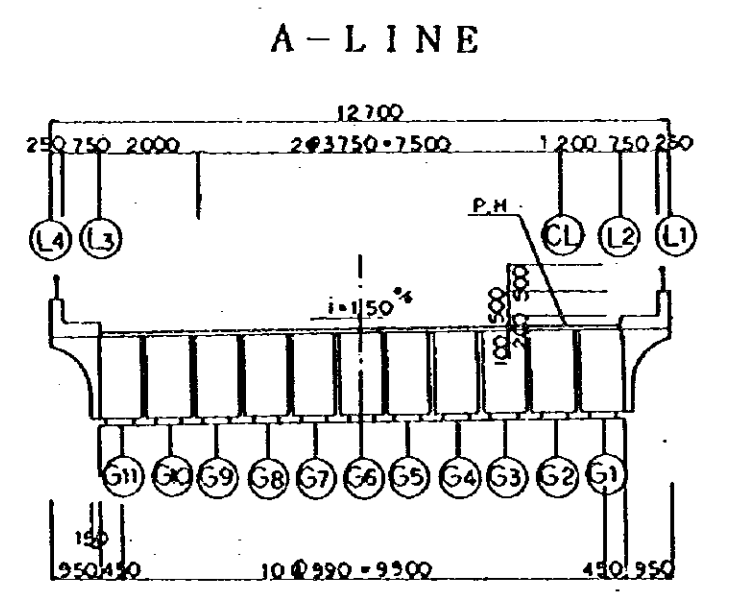
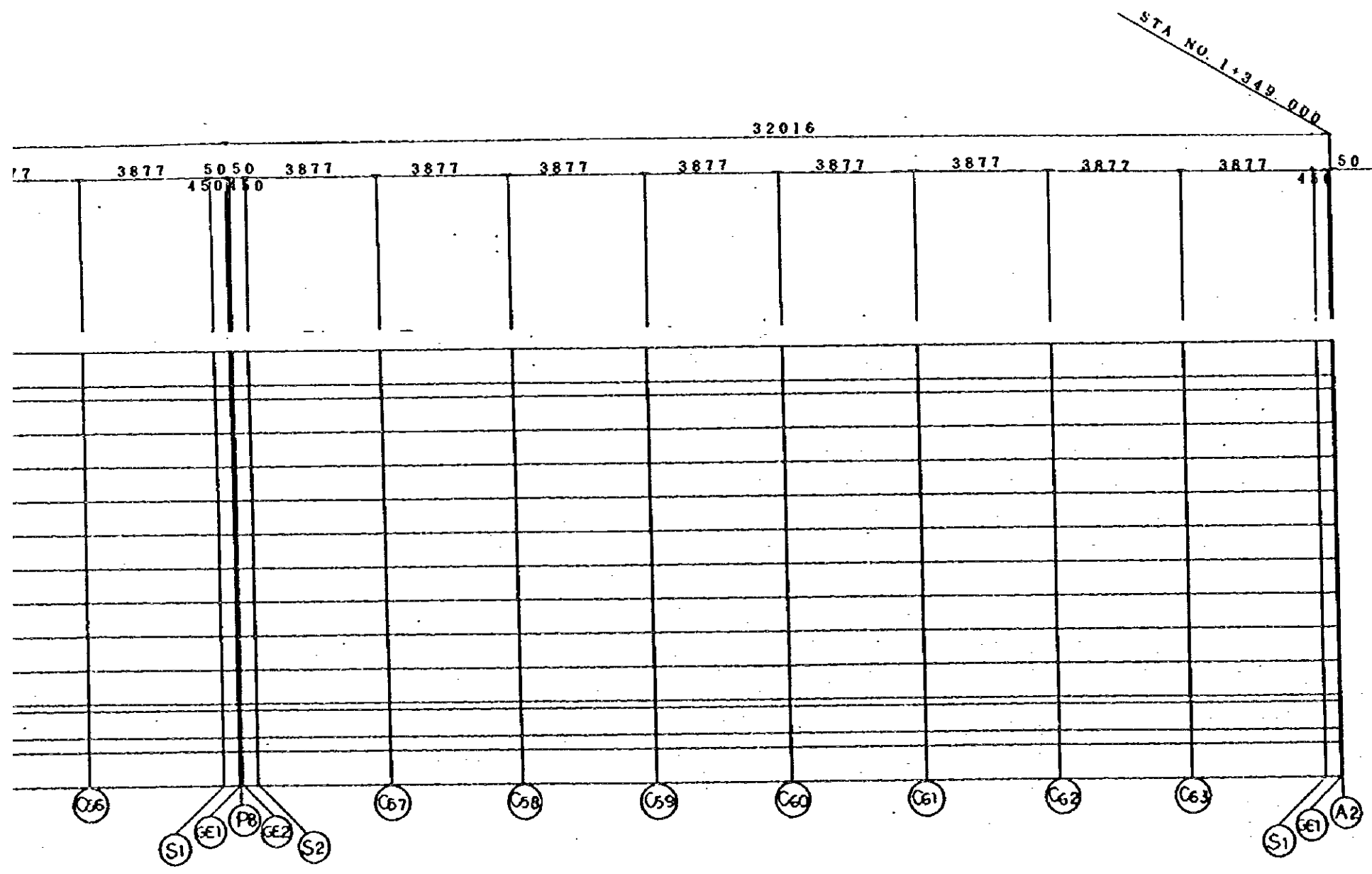
32016

32016

3877 5050 3877 3877 3877 3877 3877 3877 3877 3877 5050 3877 3877 3877 3877 3877 3877



C50 C51 C52 C53 C54 C55 C56 C57 C58 C59 C60 C61 C62



JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) JICA STUDY TEAM PACIFIC CONSULTANTS INTERNATIONAL FUKUYAMA CONSULTANTS INTERNATIONAL	CLIENT : MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY	
	TITLE DATE	FRAMING PLAN RA02 AT A-LINE DWGNO. B-3

A'NASEEM GARDEN (A)

SECTION		A1	A1-GE1	A1-S1	C4	P1-S1	P1-GE1	P1	P1-GE2	P1-S2	G11	P2-S1	P2-GE
STATION		1+ 61.0000	1+ 61.0500	1+ 61.5000	1+ 77.0000	1+92.5000	1+92.9500	1+93.0000	1+93.0500	1+93.5000	1+108.9965	1+124.5000	1+124.91
L4	X	0.0362	0.0862	0.5362	16.0569	31.5773	32.0272	32.0772	32.1272	32.5772	48.0899	63.5917	64.0
	Y	6.3499	6.3496	6.347	6.2425	6.1079	6.1035	6.103	6.1025	6.0982	5.9316	5.7458	5.7
	Z	16.8697	16.8704	16.8769	17.0873	17.2737	17.2787	17.2793	17.2799	17.2849	17.4456	17.5825	17.5
L3	X	0.0305	0.0805	0.5305	16.0492	31.5676	32.0175	32.0675	32.1175	32.5675	48.0786	63.5805	64.0
	Y	5.3499	5.3496	5.347	5.2425	5.1079	5.1036	5.1031	5.1026	5.0982	4.9317	4.7458	4.7
	Z	16.9847	16.9854	16.9919	17.2023	17.3887	17.3937	17.3943	17.3949	17.3999	17.5606	17.6975	17.7
G6(PIER CENTER)	X	0	0.05	0.5	16.0078	31.5156	31.9656	32.0156	32.0656	32.5156	48.0178	63.5201	63.9
	Y	0	-0.0004	-0.0039	-0.1233	-0.2428	-0.2463	-0.2467	-0.2472	-0.2523	-0.4281	-0.6038	-0.6
	Z	17.0649	17.0657	17.0721	17.2828	17.469	17.474	17.4745	17.4751	17.4801	17.6411	17.7777	17.7
CL	X	-0.0237	0.0263	0.4763	15.976	31.4754	31.9254	31.9754	32.0254	32.4753	47.9709	63.4733	63.9
	Y	-4.15	-4.1502	-4.1528	-4.2572	-4.3916	-4.396	-4.3965	-4.397	-4.4013	-4.5677	-4.7536	-4.7
	Z	17.1272	17.1279	17.1344	17.3448	17.5312	17.5362	17.5368	17.5374	17.5424	17.7032	17.84	17.8
L2	X	-0.0305	0.0195	0.4695	15.9667	31.4637	31.9137	31.9637	32.0137	32.4637	47.9573	63.4598	63.9
	Y	-5.3499	-5.3502	-5.3528	-5.4572	-5.5916	-5.5959	-5.5964	-5.5969	-5.6013	-5.7676	-5.9535	-5.9
	Z	17.1452	17.1459	17.1524	17.3628	17.5492	17.5542	17.5548	17.5554	17.5604	17.7212	17.858	17.8
L1	X	-0.0362	0.0138	0.4638	15.959	31.454	31.904	31.954	32.004	32.454	47.946	63.4485	63.8
	Y	-6.3499	-6.3502	-6.3528	-6.4572	-6.5915	-6.5959	-6.5964	-6.5969	-6.6012	-6.7676	-6.9534	-6.9
	Z	17.0602	17.0609	17.0674	17.2778	17.4642	17.4692	17.4698	17.4704	17.4754	17.6362	17.773	17.7

NOTES:

P1	P1-GE2	P1-S2	G11	P2-S1	P2-GE1	P2	P2-GE2	P2-S2	G18	P3-S1	P3-GE1	P3	P3-GE2	P3-S2	G25	P4-S1	P4-GE1	P4	P4-GE2
93.0000	1+93.0500	1+93.5000	1+108.9965	1+124.5000	1+124.9500	1+125.0000	1+125.0500	1+125.5000	1+141.0000	1+156.5000	1+156.9500	1+157.0000	1+157.0500	1+157.5000	1+173.0000	1+188.5000	1+188.9500	1+189.0000	1+189.0500
32.0772	32.1272	32.5772	48.0899	63.5917	64.0417	64.0917	64.1417	64.5917	80.0699	95.5483	95.9983	96.0483	96.0983	96.5483	112.027	127.5058	127.9558	128.0058	128.0558
6.103	6.1025	6.0982	5.9316	5.7458	5.7407	5.7401	5.7396	5.7345	5.5759	5.4473	5.444	5.4436	5.4433	5.44	5.3433	5.2766	5.2751	5.275	5.2748
17.2793	17.2799	17.2849	17.4456	17.5825	17.5861	17.5865	17.5869	17.5905	17.7017	17.7889	17.7911	17.7913	17.7915	17.7937	17.8553	17.8929	17.8936	17.8937	17.8938
32.0675	32.1175	32.5675	48.0786	63.5805	64.0304	64.0804	64.1304	64.5804	80.0606	95.541	95.991	96.041	96.091	96.541	112.0217	127.5026	127.9526	128.0026	128.0526
5.1031	5.1026	5.0982	4.9317	4.7458	4.7407	4.7402	4.7396	4.7346	4.5759	4.4473	4.444	4.4437	4.4433	4.44	4.3433	4.2766	4.2751	4.275	4.2748
17.3943	17.3949	17.3999	17.5606	17.6975	17.7011	17.7015	17.7019	17.7055	17.8167	17.9039	17.9061	17.9063	17.9065	17.9087	17.9703	18.0079	18.0086	18.0087	18.0088
32.0156	32.0656	32.5156	48.0178	63.5201	63.9701	64.0201	64.0701	64.5201	80.0111	95.5021	95.9521	96.0021	96.0521	96.5021	111.9936	127.485	127.935	127.985	128.035
-0.2467	-0.2472	-0.2523	-0.4281	-0.6038	-0.6089	-0.6095	-0.6099	-0.6141	-0.7578	-0.9016	-0.9057	-0.9062	-0.9065	-0.9088	-0.9906	-1.0724	-1.0747	-1.075	-1.0751
17.4745	17.4751	17.4801	17.6411	17.7777	17.7813	17.7818	17.7821	17.7857	17.8967	17.9841	17.9863	17.9865	17.9868	17.9889	18.0503	18.0881	18.0889	18.089	18.089
31.9754	32.0254	32.4753	47.9709	63.4733	63.9233	63.9733	64.0233	64.4733	79.9725	95.4719	95.9219	95.9719	96.0219	96.4719	111.9716	127.4714	127.9214	127.9714	128.0214
-4.3965	-4.397	-4.4013	-4.5677	-4.7536	-4.7587	-4.7592	-4.7598	-4.7648	-4.9237	-5.0524	-5.0557	-5.0561	-5.0565	-5.0597	-5.1565	-5.2233	-5.2248	-5.225	-5.2251
17.5368	17.5374	17.5424	17.7032	17.84	17.8436	17.844	17.8444	17.848	17.9592	18.0464	18.0486	18.0488	18.049	18.0512	18.1128	18.1504	18.1511	18.1512	18.1513
31.9637	32.0137	32.4637	47.9573	63.4598	63.9098	63.9598	64.0098	64.4597	79.9613	95.4632	95.9132	95.9632	96.0132	96.4631	111.9653	127.4675	127.9175	127.9675	128.0175
-5.5964	-5.5969	-5.6013	-5.7676	-5.9535	-5.9586	-5.9591	-5.9597	-5.9648	-6.1236	-6.2524	-6.2557	-6.2561	-6.2564	-6.2597	-6.3565	-6.4233	-6.4248	-6.425	-6.4251
17.5548	17.5554	17.5604	17.7212	17.858	17.8616	17.862	17.8624	17.866	17.9772	18.0644	18.0666	18.0669	18.067	18.0692	18.1308	18.1684	18.1691	18.1692	18.1693
31.954	32.004	32.454	47.946	63.4485	63.8985	63.9485	63.9985	64.4484	79.952	95.4559	95.9059	95.9559	96.0059	96.4559	111.96	127.4642	127.9142	127.9642	128.0142
-6.5964	-6.5969	-6.6012	-6.7676	-6.9534	-6.9585	-6.9591	-6.9596	-6.9647	-7.1236	-7.2524	-7.2557	-7.256	-7.2564	-7.2597	-7.3565	-7.4233	-7.4248	-7.425	-7.4251
17.4698	17.4704	17.4754	17.6362	17.773	17.7766	17.777	17.7774	17.781	17.8922	17.9794	17.9816	17.9818	17.982	17.9842	18.0458	18.0834	18.0841	18.0842	18.0843

FRAMING PLAN AT RA/02 A'NASEEM GARDEN (A-LINE)

3-S2	G25	P4-S1	P4-GE1	P4	P4-GE2	P4-S2	C32	P5-S1	P5-GE1	P5	P5-GE2	P5-S2	C39	P6-S1	P6-GE1	P6	P6-GE2	P6-S2	C46
157.5000	1+173.0000	1+188.5000	1+188.9500	1+189.0000	1+189.0500	1+189.5000	1+205.0000	1+220.5000	1+220.9500	1+221.0000	1+221.0500	1+221.5000	1+237.0000	1+252.5000	1+252.9500	1+253.0000	1+253.0500	1+253.5000	1+269.0000
96.5483	112.027	127.5058	127.9558	128.0058	128.0558	128.5058	143.9848	159.4638	159.9138	159.9638	160.0138	160.4638	175.9428	191.4217	191.8717	191.9217	191.9717	192.4216	207.9004
5.44	5.3433	5.2766	5.2751	5.275	5.2748	5.2734	5.2386	5.2338	5.2341	5.2342	5.2342	5.2345	5.2617	5.3188	5.3209	5.3212	5.3214	5.3235	5.4126
17.7937	17.8553	17.8929	17.8936	17.8937	17.8938	17.8945	17.9065	17.8945	17.8938	17.8937	17.8936	17.8929	17.8553	17.7937	17.7915	17.7913	17.7911	17.7889	17.7017
96.541	112.0217	127.5026	127.9526	128.0026	128.0526	128.5026	143.9835	159.4645	159.9145	159.9645	160.0145	160.4645	175.9455	191.4264	191.8764	191.9264	191.9764	192.4264	207.9071
4.44	4.3433	4.2766	4.2751	4.275	4.2748	4.2734	4.2386	4.2338	4.2341	4.2342	4.2342	4.2345	4.2617	4.3188	4.3209	4.3212	4.3214	4.3235	4.4126
17.9087	17.9703	18.0079	18.0086	18.0087	18.0088	18.0095	18.0215	18.0095	18.0088	18.0087	18.0086	18.0079	17.9703	17.9087	17.9065	17.9063	17.9061	17.9039	17.8167
96.5021	111.9936	127.485	127.935	127.985	128.035	128.485	143.9767	159.4684	159.9184	159.9684	160.0184	160.4684	175.96	191.4516	191.9016	191.9516	192.0016	192.4516	207.943
-0.9088	-0.9906	-1.0724	-1.0747	-1.075	-1.0751	-1.0756	-1.0954	-1.1152	-1.1158	-1.1158	-1.1157	-1.1145	-1.0723	-1.0301	-1.0289	-1.0288	-1.0284	-1.0254	-0.9213
17.9889	18.0503	18.0881	18.0889	18.089	18.089	18.0897	18.1015	18.0897	18.089	18.0889	18.0889	18.0881	18.0503	17.9889	17.9868	17.9865	17.9863	17.9841	17.8967
96.4719	111.9716	127.4714	127.9214	127.9714	128.0214	128.4714	143.9714	159.4714	159.9214	159.9714	160.0214	160.4714	175.9714	191.4712	191.9212	191.9712	192.0212	192.4712	207.971
-5.0597	-5.1565	-5.2233	-5.2248	-5.225	-5.2251	-5.2266	-5.2614	-5.2662	-5.2659	-5.2658	-5.2658	-5.2655	-5.2383	-5.1811	-5.179	-5.1787	-5.1785	-5.1763	-5.0872
18.0512	18.1128	18.1504	18.1511	18.1512	18.1513	18.152	18.164	18.152	18.1513	18.1512	18.1511	18.1504	18.1128	18.0512	18.049	18.0488	18.0486	18.0464	17.9592
96.4631	111.9653	127.4675	127.9175	127.9675	128.0175	128.4675	143.9699	159.4722	159.9222	159.9722	160.0222	160.4722	175.9746	191.4769	191.9269	191.9769	192.0269	192.4769	207.9791
-6.2597	-6.3565	-6.4233	-6.4248	-6.425	-6.4251	-6.4266	-6.4614	-6.4662	-6.4659	-6.4658	-6.4658	-6.4655	-6.4383	-6.3811	-6.3789	-6.3787	-6.3785	-6.3763	-6.2871
18.0692	18.1308	18.1684	18.1691	18.1692	18.1693	18.17	18.182	18.17	18.1693	18.1692	18.1691	18.1684	18.1308	18.0692	18.067	18.0668	18.0666	18.0644	17.9772
96.4559	111.96	127.4642	127.9142	127.9642	128.0142	128.4642	143.9686	159.473	159.923	159.973	160.023	160.473	175.9774	191.4816	191.9316	191.9816	192.0316	192.4816	207.9858
-7.2597	-7.3565	-7.4233	-7.4248	-7.425	-7.4251	-7.4266	-7.4614	-7.4662	-7.4659	-7.4658	-7.4658	-7.4655	-7.4383	-7.381	-7.3789	-7.3787	-7.3785	-7.3763	-7.2871
17.9842	18.0458	18.0834	18.0841	18.0842	18.0843	18.085	18.097	18.085	18.0843	18.0842	18.0841	18.0834	18.0458	17.9842	17.982	17.9818	17.9816	17.9794	17.8922

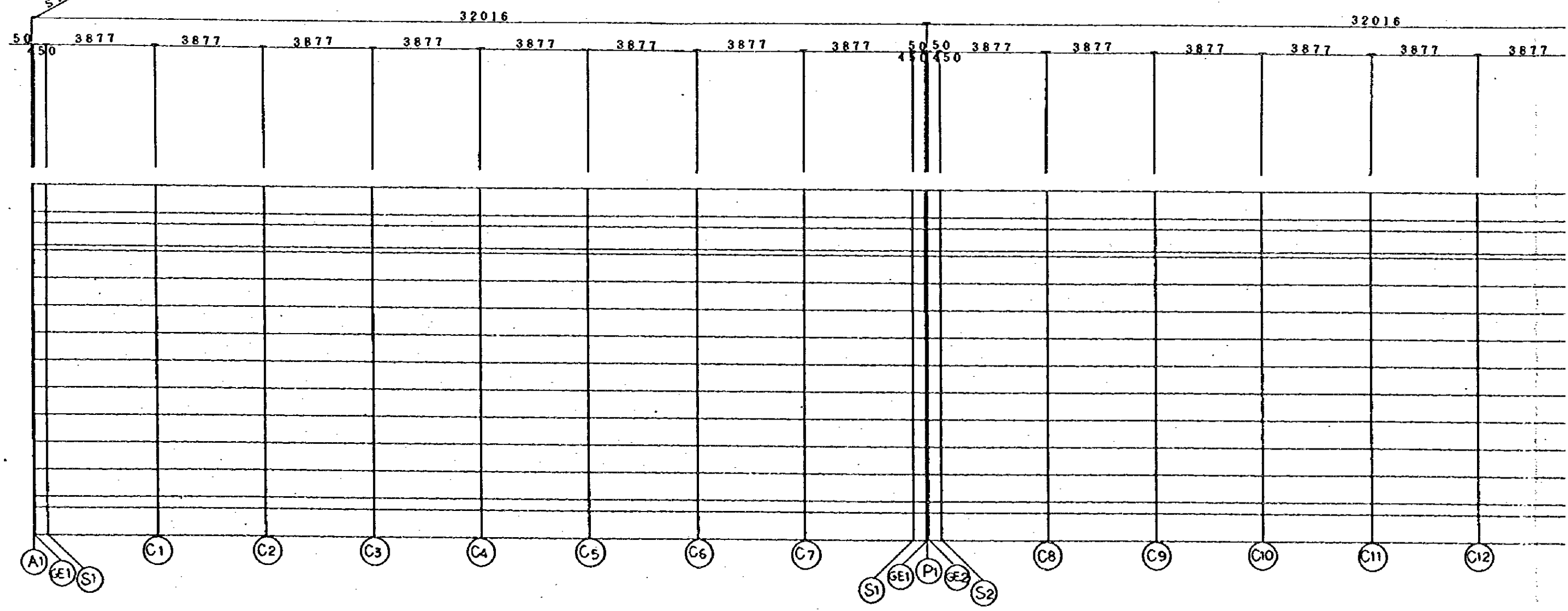
I	P6-GE1	P6	P6-GE2	P6-S2	C46	P7-S1	P7-GE1	P7	P7-GE2	P7-S2	C53	P8-S1	P8-GE1	P8	P8-GE2	P8-S2	C60	A2-S1	A2-GE1	I
300	1+252.9500	1+253.000	1+253.0500	1+253.5000	1+269.0000	1+284.5000	1+284.9500	1+285.000	1+285.0500	1+285.5000	1+301.0000	1+316.5000	1+316.9500	1+317.0000	1+317.0500	1+317.5000	1+333.0000	1+348.5000	1+348.9500	1+34
217	191.8717	191.9217	191.9717	192.4216	207.9004	223.3789	223.8289	223.8789	223.9289	224.3789	239.8572	255.3351	255.7851	255.835	255.885	256.335	271.8126	287.2896	287.7396	28
188	5.3209	5.3212	5.3214	5.3235	5.4126	5.5316	5.5356	5.536	5.5364	5.5404	5.6913	5.8723	5.878	5.8787	5.8793	5.885	6.0979	6.3408	6.3483	
937	17.7915	17.7913	17.7911	17.7889	17.7017	17.5905	17.5869	17.5865	17.5861	17.5825	17.4457	17.2849	17.2799	17.2793	17.2787	17.2737	17.0873	16.8769	16.8704	1
264	191.8764	191.9264	191.9764	192.4264	207.9071	223.3876	223.8376	223.8876	223.9376	224.3876	239.8679	255.3478	255.7978	255.8478	255.8978	256.3477	271.8273	287.3064	287.7563	28
188	4.3209	4.3212	4.3214	4.3235	4.4126	4.5317	4.5356	4.536	4.5365	4.5404	4.6914	4.8724	4.8781	4.8787	4.8794	4.8851	5.098	5.3409	5.3484	
3087	17.9065	17.9063	17.9061	17.9039	17.8167	17.7055	17.7019	17.7015	17.7011	17.6975	17.5607	17.3999	17.3949	17.3943	17.3937	17.3887	17.2023	16.9919	16.9854	1
3516	191.9016	191.9516	192.0016	192.4516	207.943	223.4343	223.8843	223.9343	223.9843	224.4343	239.9251	255.4159	255.8658	255.9158	255.9658	256.4158	271.9058	287.3958	287.8458	28
3301	-1.0289	-1.0288	-1.0284	-1.0254	-0.9213	-0.8171	-0.8141	-0.8138	-0.8132	-0.8084	-0.6423	-0.4762	-0.4714	-0.4708	-0.4701	-0.4635	-0.2354	-0.0073	-0.0007	
9889	17.9868	17.9865	17.9863	17.9841	17.8967	17.7857	17.7821	17.7817	17.7813	17.7777	17.6407	17.4801	17.4751	17.4745	17.474	17.4689	17.2823	17.0721	17.0657	
4712	191.9212	191.9712	192.0212	192.4712	207.971	223.4705	223.9205	223.9705	224.0205	224.4705	239.9697	255.4687	255.9186	255.9686	256.0186	256.4686	271.9671	287.4652	287.9151	28
1811	-5.179	-5.1787	-5.1785	-5.1763	-5.0872	-4.968	-4.964	-4.9636	-4.9632	-4.9592	-4.808	-4.6268	-4.6211	-4.6205	-4.6199	-4.6141	-4.4009	-4.1577	-4.1502	
0512	18.049	18.0488	18.0486	18.0464	17.9592	17.848	17.8444	17.844	17.8436	17.84	17.7032	17.5424	17.5374	17.5368	17.5362	17.5312	17.3448	17.1344	17.1279	
4769	191.9269	191.9769	192.0269	192.4769	207.9791	223.481	223.931	223.981	224.031	224.4809	239.9826	255.4839	255.9339	255.9839	256.0339	256.4839	271.9848	287.4853	287.9352	28
3811	-6.3789	-6.3787	-6.3785	-6.3763	-6.2871	-6.1679	-6.164	-6.1636	-6.1631	-6.1592	-6.008	-5.8267	-5.821	-5.8204	-5.8198	-5.814	-5.6008	-5.3576	-5.3501	
0692	18.067	18.0668	18.0666	18.0644	17.9772	17.866	17.8624	17.862	17.8616	17.858	17.7212	17.5604	17.5554	17.5548	17.5542	17.5492	17.3628	17.1524	17.1459	
4816	191.9316	191.9816	192.0316	192.4816	207.9858	223.4897	223.9397	223.9897	224.0397	224.4897	239.9933	255.4967	255.9466	255.9966	256.0466	256.4966	271.9995	287.502	287.9519	28
7381	-7.3789	-7.3787	-7.3785	-7.3763	-7.2871	-7.1679	-7.164	-7.1635	-7.1631	-7.1591	-7.0079	-6.8267	-6.8209	-6.8203	-6.8197	-6.8139	-6.6007	-6.3574	-6.3499	
9842	17.982	17.9818	17.9816	17.9794	17.8922	17.781	17.7774	17.777	17.7766	17.773	17.6362	17.4754	17.4704	17.4698	17.4692	17.4642	17.2778	17.0674	17.0609	

P8	P8-GE2	P8-S2	C60	A2-S1	A2-GE1	A2
17.0000	1+317.0500	1+317.5000	1+333.0000	1+348.5000	1+348.9500	1+349.0000
255.835	255.885	256.335	271.8126	287.2896	287.7396	287.7896
5.8787	5.8793	5.885	6.0979	6.3408	6.3483	6.3491
17.2793	17.2787	17.2737	17.0873	16.8769	16.8704	16.8697
255.8478	255.8978	256.3477	271.8273	287.3064	287.7563	287.8063
4.8787	4.8794	4.8851	5.098	5.3409	5.3484	5.3493
17.3943	17.3937	17.3887	17.2023	16.9919	16.9854	16.9847
255.9158	255.9658	256.4158	271.9058	287.3958	287.8458	287.8957
-0.4708	-0.4701	-0.4635	-0.2354	-0.0073	-0.0007	0
17.4745	17.474	17.4689	17.2823	17.0721	17.0657	17.0649
255.9686	256.0186	256.4686	271.9671	287.4652	287.9151	287.9651
-4.6205	-4.6199	-4.6141	-4.4009	-4.1577	-4.1502	-4.1494
17.5368	17.5362	17.5312	17.3448	17.1344	17.1279	17.1272
255.9839	256.0339	256.4839	271.9848	287.4853	287.9352	287.9852
-5.8204	-5.8198	-5.814	-5.6008	-5.3576	-5.3501	-5.3492
17.5548	17.5542	17.5492	17.3628	17.1524	17.1459	17.1452
255.9966	256.0466	256.4966	271.9995	287.502	287.9519	288.0019
-6.8203	-6.8197	-6.8139	-6.6007	-6.3574	-6.3499	-6.3491
17.4698	17.4692	17.4642	17.2778	17.0674	17.0609	17.0602

JAPAN INTERNATIONAL COOPERATION AGENCY
(JICA)
JICA STUDY TEAM
PACIFIC CONSULTANTS INTERNATIONAL
FUKUYAMA CONSULTANTS INTERNATIONAL

CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
TITLE CO-ORDINATE LIST RA02 AT A-LINE
DATE DWGNO. B-4

STA NO. 1+61.000

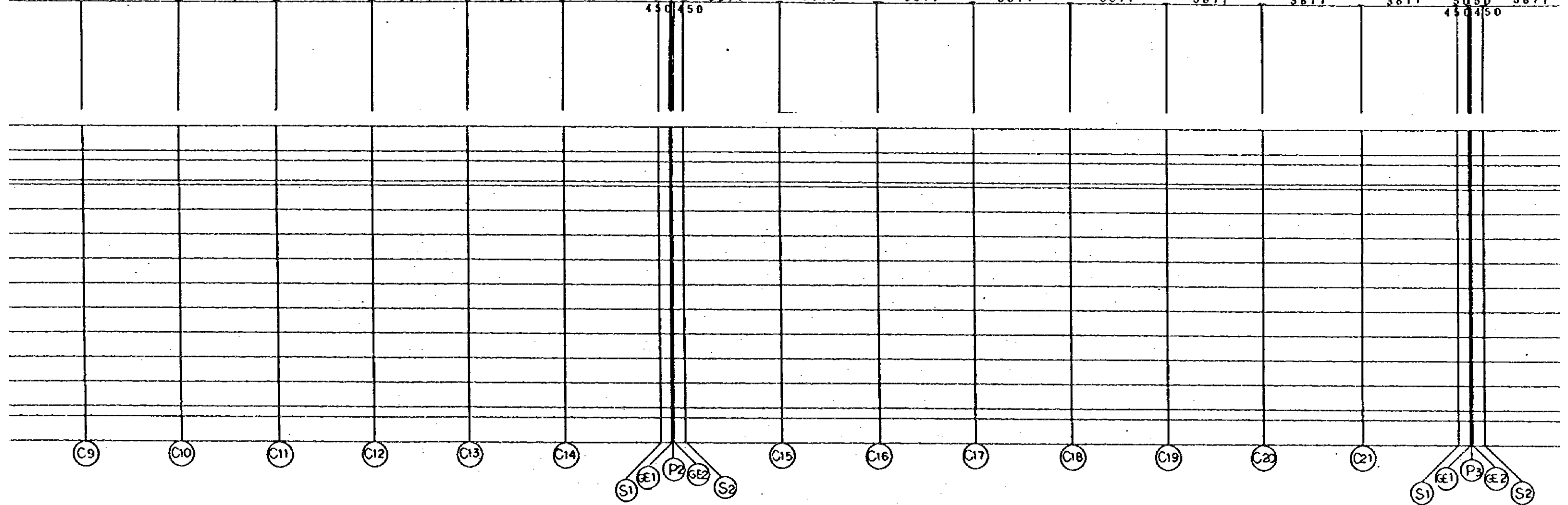


NOTES:

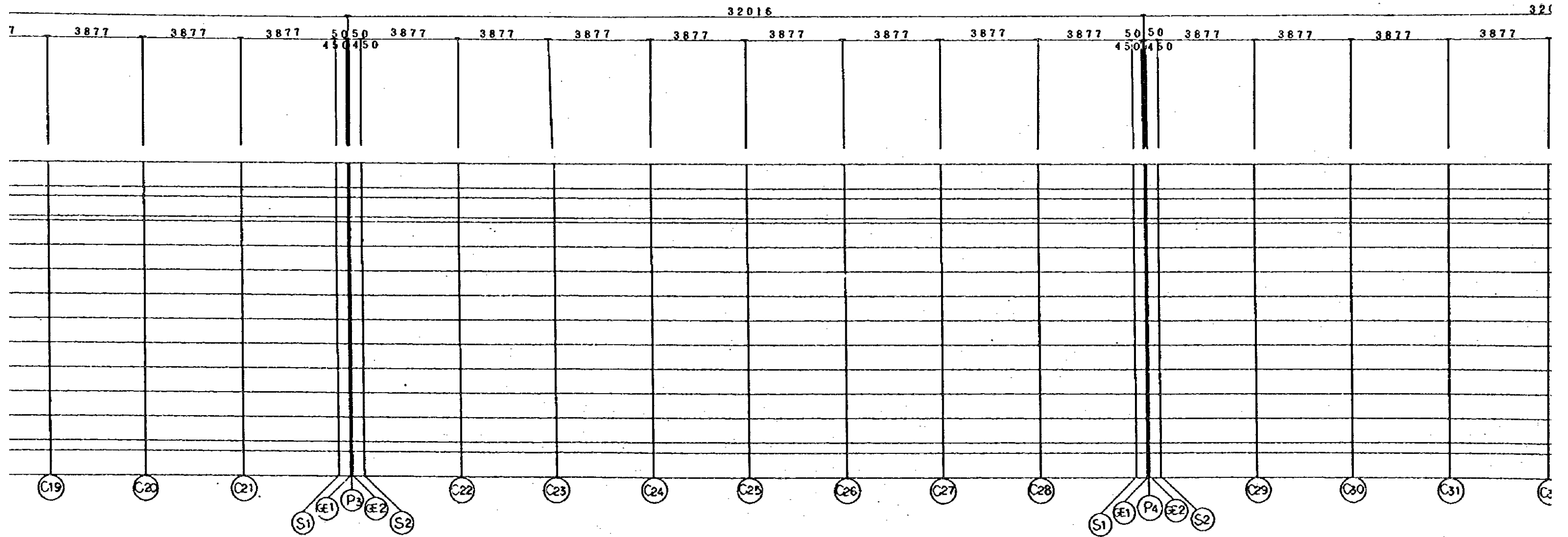
32016

32016

3877 3877 3877 3877 3877 3877 3877 50 50 3877 3877 3877 3877 3877 3877 3877 3877 50 50 3877
450 450 450 450

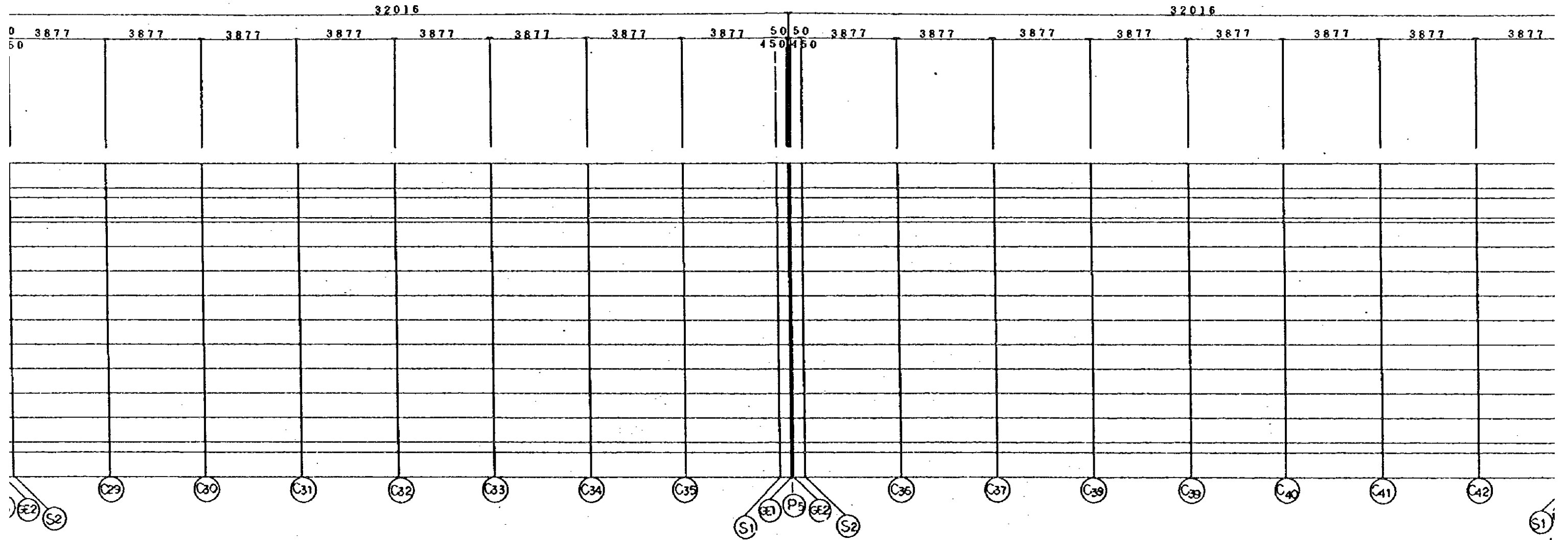


R/A-2A' N



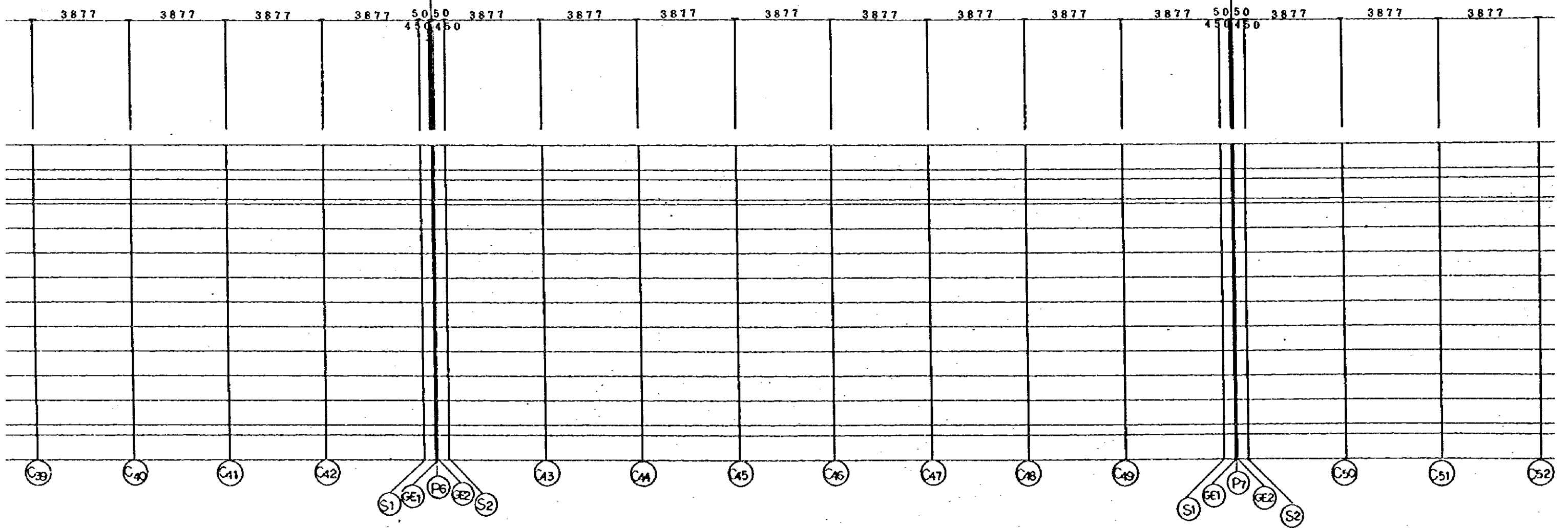
R/A-2A' NASEEM GARDEN

B-LINE

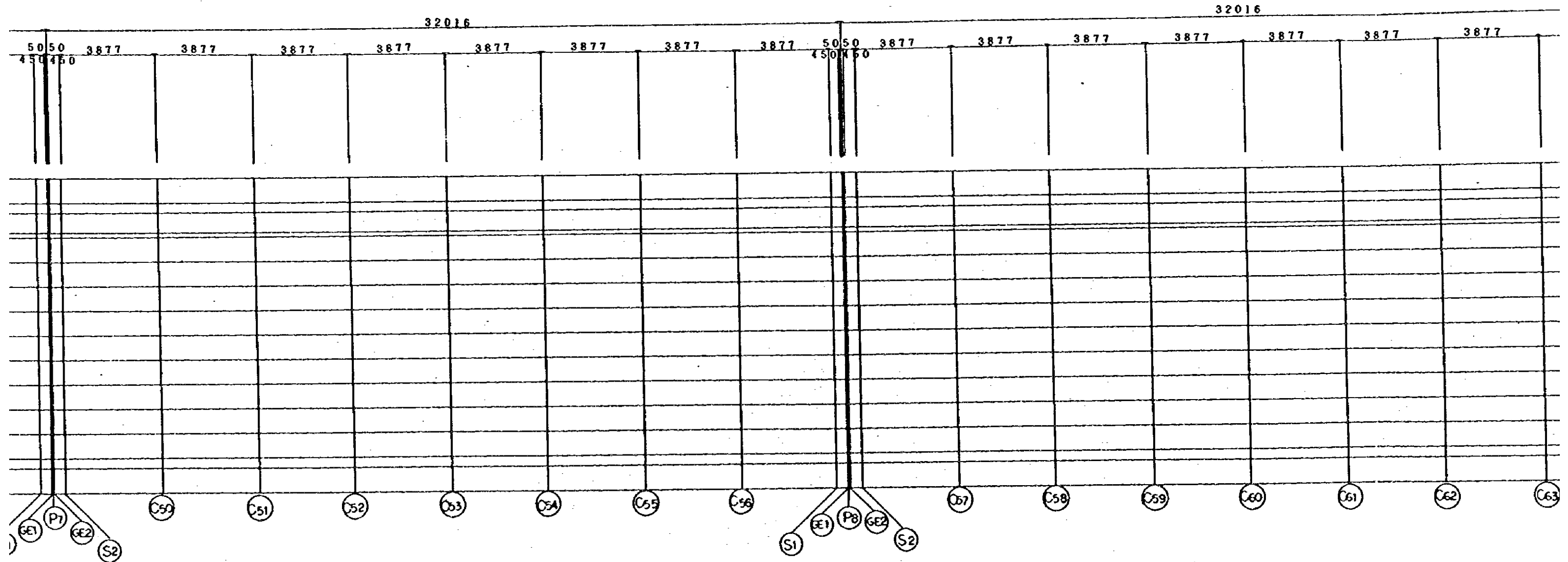


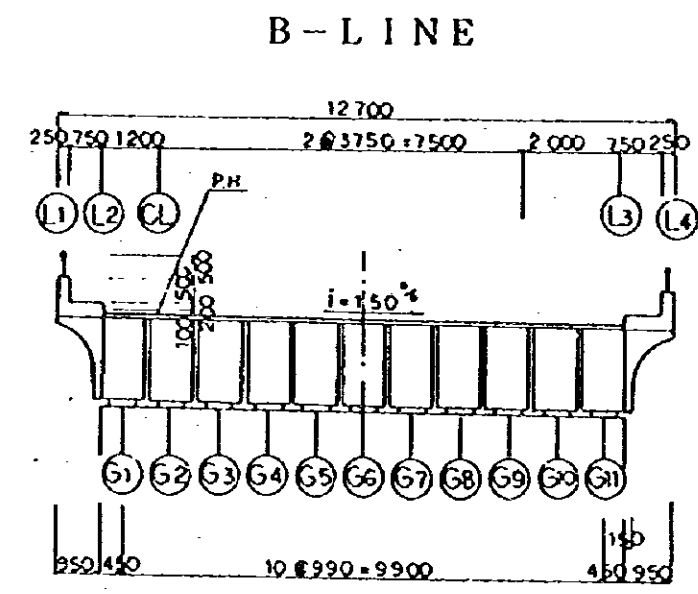
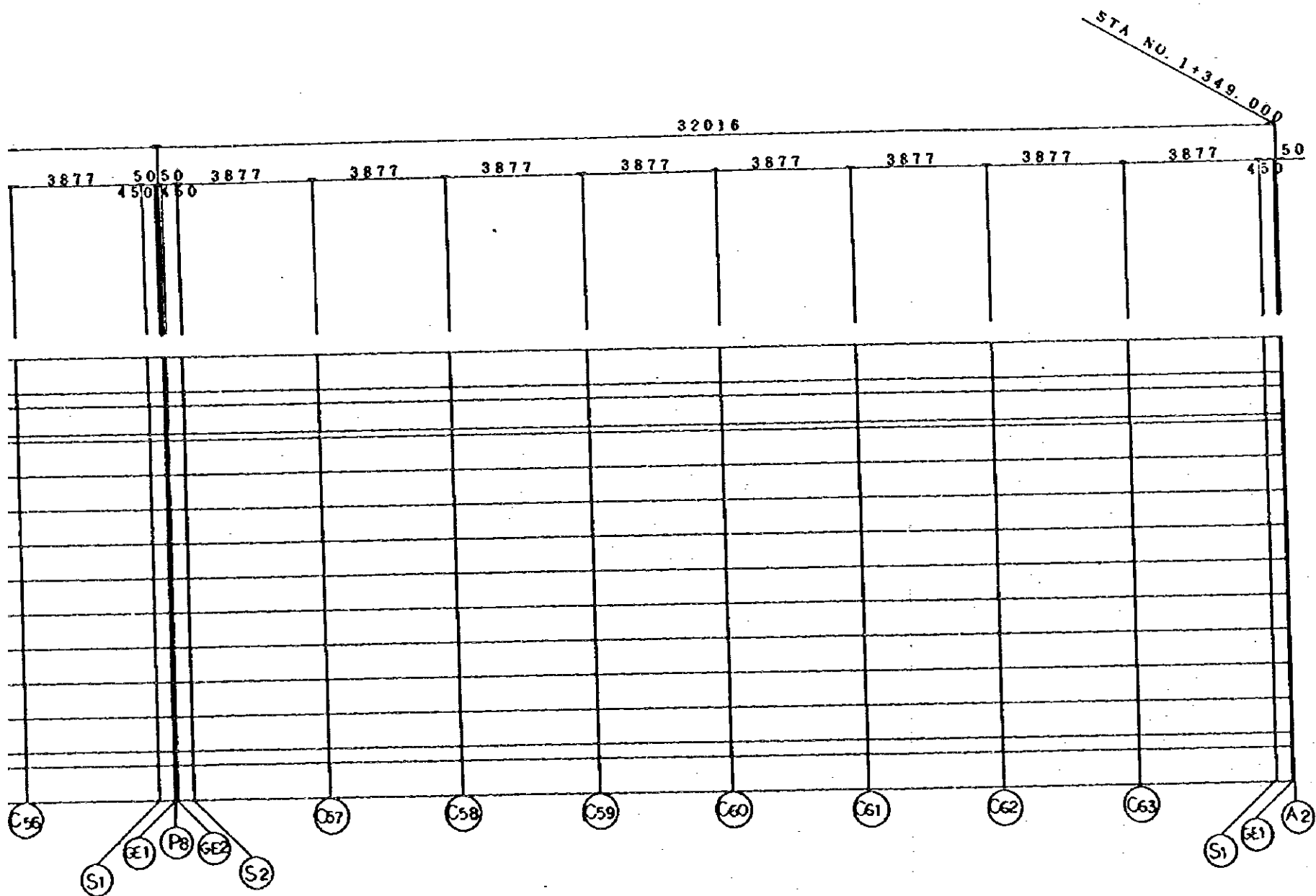
32016

32016



STA. A





JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) JICA STUDY TEAM PACIFIC CONSULTANTS INTERNATIONAL FUKUYAMA CONSULTANTS INTERNATIONAL	CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS	
	PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY	
	TITLE: FRAMING PLAN RA01 AT B-LINE	
DATE:	DWGNO.:	B-5

A'NASEEM GARDEN(B)

SECTION		A1	A1-GE1	A1-S1	C4	P1-S1	P1-GE1	P1	P1-GE2	P1-S2
STATION		1+ 61.0000	1+ 61.0500	1+ 61.5000	1+ 77.0000	1+ 92.5000	1+ 92.9500	1+ 93.0000	1+ 93.0500	1+ 93.5000
L1	X	0.1143	0.1643	0.6142	16.1076	31.6014	32.0514	32.1014	32.1513	32.6013
	Y	6.349	6.3481	6.34	6.0771	5.8441	5.8378	5.8371	5.8364	5.8301
	Z	17.0602	17.0609	17.0674	17.2778	17.4642	17.4692	17.4698	17.4704	17.4754
L2	X	0.0963	0.1463	0.5962	16.0916	31.5874	32.0374	32.0874	32.1373	32.5873
	Y	5.3491	5.3482	5.3401	5.0772	4.8442	4.8379	4.8372	4.8365	4.8302
	Z	17.1452	17.1459	17.1524	17.3628	17.5492	17.5542	17.5548	17.5554	17.5604
CL	X	0.0747	0.1247	0.5746	16.0724	31.5706	32.0206	32.0706	32.1205	32.5705
	Y	4.1493	4.1484	4.1403	3.8773	3.6444	3.638	3.6373	3.6366	3.6304
	Z	17.1272	17.1279	17.1344	17.3448	17.5312	17.5362	17.5368	17.5374	17.5424
G6(PIER CENTER)	X	0	0.05	0.4999	16.0062	31.5125	31.9625	32.0125	32.0625	32.5124
	Y	0	-0.0008	-0.008	-0.2561	-0.5043	-0.5115	-0.5123	-0.5129	-0.5183
	Z	17.065	17.0657	17.0721	17.2828	17.469	17.474	17.4746	17.4751	17.4801
L3	X	-0.0963	-0.0463	0.4036	15.9204	31.4376	31.8876	31.9376	31.9876	32.4375
	Y	-5.3491	-5.35	-5.3581	-5.6215	-5.8547	-5.861	-5.8617	-5.8624	-5.8687
	Z	16.9847	16.9854	16.9919	17.2023	17.3887	17.3937	17.3943	17.3949	17.3999
L4	X	-0.1143	-0.0643	0.3856	15.9044	31.4236	31.8736	31.9236	31.9736	32.4235
	Y	-6.349	-6.3499	-6.358	-6.6213	-6.8546	-6.8609	-6.8616	-6.8623	-6.8686
	Z	16.8697	16.8704	16.8769	17.0873	17.2737	17.2787	17.2793	17.2799	17.2849

NOTES:

	P1-S1	P1-GE1	P1	P1-GE2	P1-S2	C11	P2-S1	P2-GE1	P2	P2-GE2	P2-S2	C18	P3-S1	P3-GE1	P3	P3-GE2	P3-S2	C25	P4-S1	P
1.0000	1 + 92.5000	1 + 92.9500	1 + 93.0000	1 + 93.0500	1 + 93.5000	1 + 109.0000	1 + 124.5000	1 + 124.9500	1 + 125.0000	1 + 125.0500	1 + 125.5000	1 + 141.0000	1 + 156.5000	1 + 156.9500	1 + 157.0000	1 + 157.0500	1 + 157.5000	1 + 173.0000	1 + 188.5000	1 +
.1076	31.6014	32.0514	32.1014	32.1513	32.6013	48.0956	63.5903	64.0402	64.0902	64.1402	64.5902	80.0852	95.5804	96.0304	96.0804	96.1304	96.5804	112.0758	127.5713	
.0771	5.8441	5.8378	5.8371	5.8364	5.8301	5.6292	5.4583	5.4537	5.4532	5.4527	5.4483	5.3093	5.2003	5.1976	5.1973	5.197	5.1943	5.1173	5.0704	
.2778	17.4642	17.4692	17.4698	17.4704	17.4754	17.6362	17.773	17.7766	17.777	17.7774	17.781	17.8922	17.9794	17.9816	17.9818	17.982	17.9842	18.0458	18.0834	
.0916	31.5874	32.0374	32.0874	32.1373	32.5873	48.0836	63.5803	64.0302	64.0802	64.1302	64.5802	80.0772	95.5744	96.0244	96.0744	96.1244	96.5744	112.0718	127.5693	
.0772	4.8442	4.8379	4.8372	4.8365	4.8302	4.6293	4.4583	4.4538	4.4533	4.4528	4.4483	4.3093	4.2003	4.1976	4.1973	4.197	4.1943	4.1173	4.0704	
1.3628	17.5492	17.5542	17.5548	17.5554	17.5604	17.7212	17.858	17.8616	17.862	17.8624	17.866	17.9772	18.0644	18.0666	18.0668	18.067	18.0692	18.1308	18.1684	
3.0724	31.5706	32.0206	32.0706	32.1205	32.5705	48.0692	63.5683	64.0182	64.0682	64.1182	64.5682	80.0676	95.5672	96.0172	96.0672	96.1172	96.5672	112.067	127.5669	
3.8773	3.6444	3.638	3.6373	3.6366	3.6304	3.4293	3.2584	3.2539	3.2534	3.2529	3.2484	3.1094	3.0004	2.9977	2.9974	2.9971	2.9944	2.9174	2.8704	
7.3448	17.5312	17.5362	17.5368	17.5374	17.5424	17.7032	17.84	17.8436	17.844	17.8444	17.848	17.9592	18.0464	18.0486	18.0488	18.049	18.0512	18.1128	18.1504	
6.0062	31.5125	31.9625	32.0125	32.0625	32.5124	48.0196	63.5268	63.9767	64.0267	64.0767	64.5267	80.0345	95.5423	95.9923	96.0423	96.0923	96.5423	112.0505	127.5586	
0.2561	-0.5043	-0.5115	-0.5123	-0.5129	-0.5183	-0.7043	-0.8904	-0.8958	-0.8964	-0.8968	-0.9004	-1.0245	-1.1486	-1.1522	-1.1526	-1.1528	-1.1546	-1.2166	-1.2786	
7.2828	17.469	17.474	17.4746	17.4751	17.4801	17.6412	17.7778	17.7814	17.7818	17.7822	17.7858	17.8972	17.9842	17.9863	17.9865	17.9868	17.989	18.0508	18.0882	
5.9204	31.4376	31.8876	31.9376	31.9876	32.4375	47.9552	63.4733	63.9232	63.9732	64.0232	64.4732	79.9916	95.5102	95.9602	96.0102	96.0602	96.5102	112.029	127.5479	
5.6215	-5.8547	-5.861	-5.8617	-5.8624	-5.8687	-6.07	-6.2412	-6.2457	-6.2462	-6.2467	-6.2512	-6.3903	-6.4995	-6.5022	-6.5025	-6.5028	-6.5055	-6.5826	-6.6296	
7.2023	17.3887	17.3937	17.3943	17.3949	17.3999	17.5607	17.6975	17.7011	17.7015	17.7019	17.7055	17.8167	17.9039	17.9061	17.9063	17.9065	17.9087	17.9703	18.0079	
5.9044	31.4236	31.8736	31.9236	31.9736	32.4235	47.9432	63.4633	63.9132	63.9632	64.0132	64.4632	79.9836	95.5042	95.9542	96.0042	96.0542	96.5042	112.025	127.5459	
-6.6213	-6.8546	-6.8609	-6.8616	-6.8623	-6.8686	-7.0699	-7.2411	-7.2456	-7.2461	-7.2466	-7.2511	-7.3903	-7.4994	-7.5022	-7.5025	-7.5028	-7.5054	-7.5826	-7.6296	
17.0873	17.2737	17.2787	17.2793	17.2799	17.2849	17.4457	17.5825	17.5861	17.5865	17.5869	17.5905	17.7017	17.7889	17.7911	17.7913	17.7915	17.7937	17.8553	17.8929	

FRAMING PLAN AT RA/02 A'NASEEM GARDEN (B-LINE)

GE1	P3	P3-GE2	P3-S2	C25	P4-S1	P4-GE1	P4	P4-GE2	P4-S2	C32	P5-S1	P5-GE1	P5	P5-GE2	P5-S2	C39	P6-S1	P6-GE1	P6	
6.9500	157.0000	157.0500	157.5000	173.0000	188.5000	188.9500	189.0000	189.0500	189.5000	205.0000	220.5000	220.9500	221.0000	221.0500	221.5000	237.0000	252.5000	252.9500	253.0000	
3.0304	96.0804	96.1304	96.5804	112.0758	127.5713	128.0213	128.0713	128.1213	128.5713	144.0669	159.5625	160.0125	160.0625	160.1125	160.5625	176.058	191.5534	192.0034	192.0534	
5.1976	5.1973	5.197	5.1943	5.1173	5.0704	5.0695	5.0694	5.0693	5.0684	5.0534	5.0684	5.0693	5.0694	5.0695	5.0704	5.1173	5.1943	5.197	5.1973	
7.9816	17.9818	17.982	17.9842	18.0458	18.0834	18.0841	18.0842	18.0843	18.085	18.097	18.085	18.0843	18.0842	18.0841	18.0834	18.0458	17.9842	17.982	17.9818	
6.0244	96.0744	96.1244	96.5744	112.0718	127.5693	128.0193	128.0693	128.1193	128.5693	144.0669	159.5645	160.0145	160.0645	160.1145	160.5645	176.062	191.5594	192.0094	192.0594	
4.1976	4.1973	4.197	4.1943	4.1173	4.0704	4.0695	4.0694	4.0693	4.0684	4.0534	4.0684	4.0693	4.0694	4.0695	4.0704	4.1173	4.1943	4.197	4.1973	
8.0666	18.0668	18.067	18.0692	18.1308	18.1684	18.1691	18.1692	18.1693	18.17	18.182	18.17	18.1693	18.1692	18.1691	18.1684	18.1308	18.0692	18.067	18.0668	
6.0172	96.0672	96.1172	96.5672	112.067	127.5669	128.0169	128.0669	128.1169	128.5669	144.0669	159.5669	160.0169	160.0669	160.1169	160.5669	176.0668	191.5666	192.0166	192.0666	
2.9977	2.9974	2.9971	2.9944	2.9174	2.8704	2.8695	2.8694	2.8693	2.8684	2.8534	2.8684	2.8693	2.8694	2.8695	2.8704	2.9174	2.9944	2.9971	2.9974	
8.0486	18.0488	18.049	18.0512	18.1128	18.1504	18.1511	18.1512	18.1513	18.152	18.164	18.152	18.1513	18.1512	18.1511	18.1504	18.1128	18.0512	18.049	18.0488	
5.9923	96.0423	96.0923	96.5423	112.0505	127.5586	128.0086	128.0586	128.1086	128.5586	144.0669	159.5752	160.0252	160.0752	160.1252	160.5752	176.0834	191.5915	192.0415	192.0915	
1.1522	-1.1526	-1.1528	-1.1546	-1.2166	-1.2786	-1.2804	-1.2806	-1.2806	-1.2806	-1.2806	-1.2806	-1.2806	-1.2806	-1.2806	-1.2804	-1.2786	-1.2166	-1.1546	-1.1528	-1.1526
7.9863	17.9865	17.9868	17.989	18.0508	18.0882	18.0889	18.089	18.089	18.0898	18.102	18.0898	18.089	18.089	18.0889	18.0882	18.0508	17.989	17.9868	17.9865	
5.9602	96.0102	96.0602	96.5102	112.029	127.5479	127.9979	128.0479	128.0979	128.5479	144.0669	159.5859	160.0359	160.0859	160.1359	160.5859	176.1048	191.6236	192.0736	192.1236	
6.5022	-6.5025	-6.5028	-6.5055	-6.5826	-6.6296	-6.6305	-6.6306	-6.6307	-6.6316	-6.6466	-6.6316	-6.6307	-6.6306	-6.6305	-6.6296	-6.5826	-6.5055	-6.5028	-6.5025	
7.9061	17.9063	17.9065	17.9087	17.9703	18.0079	18.0086	18.0087	18.0088	18.0095	18.0215	18.0095	18.0088	18.0087	18.0086	18.0079	17.9703	17.9087	17.9065	17.9063	
5.9542	96.0042	96.0542	96.5042	112.025	127.5459	127.9959	128.0459	128.0959	128.5459	144.0669	159.5879	160.0379	160.0879	160.1379	160.5879	176.1088	191.6296	192.0796	192.1296	
-7.5022	-7.5025	-7.5028	-7.5054	-7.5826	-7.6296	-7.6305	-7.6306	-7.6307	-7.6316	-7.6466	-7.6316	-7.6307	-7.6306	-7.6305	-7.6296	-7.5826	-7.5054	-7.5028	-7.5025	
17.7911	17.7913	17.7915	17.7937	17.8553	17.8929	17.8936	17.8937	17.8938	17.8945	17.9065	17.8945	17.8938	17.8937	17.8936	17.8929	17.8553	17.7937	17.7915	17.7913	

RDEN (B-LINE)

	P5-GE2	P5-S2	C39	P6-S1	P6-GE1	P6	P6-GE2	P6-S2	C46	P7-S1	P7-GE1	P7	P7-GE2	P7-S2	C53	P8-S1	P8-GE1	P8	P8-GE2	P8-
000	1 + 221.0500	1 + 221.5000	1 + 237.0000	1 + 252.5000	1 + 252.9500	1 + 253.0000	1 + 253.0500	1 + 253.5000	1 + 269.0000	1 + 284.5000	1 + 284.9500	1 + 285.0000	1 + 285.0500	1 + 285.5000	1 + 301.0000	1 + 316.5000	1 + 316.9500	1 + 317.0000	1 + 317.0500	1 + 317.0000
325	160.1125	160.5625	176.058	191.5534	192.0034	192.0534	192.1034	192.5534	208.0486	223.5436	223.9936	224.0436	224.0936	224.5435	240.0382	255.5325	255.9824	256.0324	256.0824	256
394	5.0695	5.0704	5.1173	5.1943	5.197	5.1973	5.1976	5.2003	5.3093	5.4483	5.4527	5.4532	5.4537	5.4583	5.6292	5.8301	5.8364	5.8371	5.8378	5
342	18.0841	18.0834	18.0458	17.9842	17.982	17.9818	17.9816	17.9794	17.8922	17.781	17.7774	17.777	17.7766	17.773	17.6362	17.4754	17.4704	17.4698	17.4692	17
645	160.1145	160.5645	176.062	191.5594	192.0094	192.0594	192.1094	192.5594	208.0566	223.5536	224.0036	224.0536	224.1036	224.5535	240.0502	255.5465	255.9964	256.0464	256.0964	256
694	4.0695	4.0704	4.1173	4.1943	4.197	4.1973	4.1976	4.2003	4.3093	4.4483	4.4528	4.4533	4.4538	4.4583	4.6293	4.8302	4.8365	4.8372	4.8379	4
692	18.1691	18.1684	18.1308	18.0692	18.067	18.0668	18.0666	18.0644	17.9772	17.866	17.8624	17.862	17.8616	17.858	17.7212	17.5604	17.5554	17.5548	17.5542	17
669	160.1169	160.5669	176.0668	191.5666	192.0166	192.0666	192.1166	192.5666	208.0662	223.5656	224.0156	224.0656	224.1156	224.5655	240.0646	255.5633	256.0132	256.0632	256.1132	256
694	2.8695	2.8704	2.9174	2.9944	2.9971	2.9974	2.9977	3.0004	3.1094	3.2484	3.2529	3.2534	3.2539	3.2584	3.4293	3.6304	3.6366	3.6373	3.638	3
512	18.1511	18.1504	18.1128	18.0512	18.049	18.0488	18.0486	18.0464	17.9592	17.848	17.8444	17.844	17.8436	17.84	17.7032	17.5424	17.5374	17.5368	17.5362	17
752	160.1252	160.5752	176.0834	191.5915	192.0415	192.0915	192.1415	192.5915	208.0993	223.6071	224.0571	224.1071	224.1571	224.607	240.1142	255.6214	256.0713	256.1213	256.1713	256
806	-1.2804	-1.2786	-1.2166	-1.1546	-1.1528	-1.1526	-1.1522	-1.1486	-1.0245	-0.9004	-0.8968	-0.8964	-0.8958	-0.8904	-0.7043	-0.5183	-0.5129	-0.5123	-0.5115	-0
089	18.0889	18.0882	18.0508	17.989	17.9868	17.9865	17.9863	17.9842	17.8972	17.7858	17.7822	17.7817	17.7814	17.7778	17.6412	17.4801	17.4751	17.4745	17.474	1
859	160.1359	160.5859	176.1048	191.6236	192.0736	192.1236	192.1736	192.6236	208.1422	223.6606	224.1106	224.1606	224.2106	224.6605	240.1786	255.6963	256.1462	256.1962	256.2462	256
306	-6.6305	-6.6296	-6.5826	-6.5055	-6.5028	-6.5025	-6.5022	-6.4995	-6.3903	-6.2512	-6.2467	-6.2462	-6.2457	-6.2412	-6.07	-5.8687	-5.8624	-5.8617	-5.861	-5
087	18.0086	18.0079	17.9703	17.9087	17.9065	17.9063	17.9061	17.9039	17.8167	17.7055	17.7019	17.7015	17.7011	17.6975	17.5607	17.3999	17.3949	17.3943	17.3937	17
879	160.1379	160.5879	176.1088	191.6296	192.0796	192.1296	192.1796	192.6296	208.1502	223.6706	224.1206	224.1706	224.2206	224.6705	240.1906	255.7103	256.1602	256.2102	256.2602	256
306	-7.6305	-7.6296	-7.5826	-7.5054	-7.5028	-7.5025	-7.5022	-7.4994	-7.3903	-7.2511	-7.2466	-7.2461	-7.2456	-7.2411	-7.0699	-6.8686	-6.8623	-6.8616	-6.8609	-6
3937	17.8936	17.8929	17.8553	17.7937	17.7915	17.7913	17.7911	17.7889	17.7017	17.5905	17.5869	17.5865	17.5861	17.5825	17.4457	17.2849	17.2799	17.2793	17.2787	17

'7-S2	C53	P8-S1	P8-GE1	P8	P8-GE2	P8-S2	C60	A2-S1	A2-GE1	A2
285.5000	1 + 301.0000	1 + 316.5000	1 + 316.9500	1 + 317.0000	1 + 317.0500	1 + 317.5000	1 + 333.0000	1 + 348.5000	1 + 348.9500	1 + 349.0000
224.5435	240.0382	255.5325	255.9824	256.0324	256.0824	256.5324	272.0262	287.5196	287.9695	288.0195
5.4583	5.6292	5.8301	5.8364	5.8371	5.8378	5.8441	6.0771	6.34	6.3481	6.349
17.773	17.6362	17.4754	17.4704	17.4698	17.4692	17.4642	17.2778	17.0674	17.0609	17.0602
224.5535	240.0502	255.5465	255.9964	256.0464	256.0964	256.5464	272.0422	287.5376	287.9875	288.0375
4.4583	4.6293	4.8302	4.8365	4.8372	4.8379	4.8442	5.0772	5.3401	5.3482	5.3491
17.858	17.7212	17.5604	17.5554	17.5548	17.5542	17.5492	17.3628	17.1524	17.1459	17.1452
224.5655	240.0646	255.5633	256.0132	256.0632	256.1132	256.5632	272.0614	287.5592	288.0091	288.0591
3.2584	3.4293	3.6304	3.6366	3.6373	3.638	3.6444	3.8773	4.1403	4.1484	4.1493
17.84	17.7032	17.5424	17.5374	17.5368	17.5362	17.5312	17.3448	17.1344	17.1279	17.1272
224.607	240.1142	255.6214	256.0713	256.1213	256.1713	256.6213	272.1276	287.6339	288.0838	288.1338
-0.8904	-0.7043	-0.5183	-0.5129	-0.5123	-0.5115	-0.5043	-0.2561	-0.008	-0.0008	0
17.7778	17.6412	17.4801	17.4751	17.4745	17.474	17.469	17.2828	17.0721	17.0657	17.0649
224.6605	240.1786	255.6963	256.1462	256.1962	256.2462	256.6962	272.2134	287.7302	288.1801	288.2301
-6.2412	-6.07	-5.8687	-5.8624	-5.8617	-5.861	-5.8547	-5.6215	-5.3581	-5.35	-5.3491
17.6975	17.5607	17.3999	17.3949	17.3943	17.3937	17.3887	17.2023	16.9919	16.9854	16.9847
224.6705	240.1906	255.7103	256.1602	256.2102	256.2602	256.7102	272.2294	287.7482	288.1981	288.2481
-7.2411	-7.0699	-6.8686	-6.8623	-6.8616	-6.8609	-6.8546	-6.6213	-6.358	-6.3499	-6.349
17.5825	17.4457	17.2849	17.2799	17.2793	17.2787	17.2737	17.0873	16.8769	16.8704	16.8697

A2
1 + 349.0000
288.0195
6.349
17.0602
288.0375
5.3491
17.1452
288.0591
4.1493
17.1272
288.1338
0
17.0649
288.2301
-5.3491
16.9847
288.2481
-6.349
16.8697

JAPAN INTERNATIONAL COOPERATION AGENCY
(JICA)

JICA STUDY TEAM
PACIFIC CONSULTANTS INTERNATIONAL
FUKUYAMA CONSULTANTS INTERNATIONAL

CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS

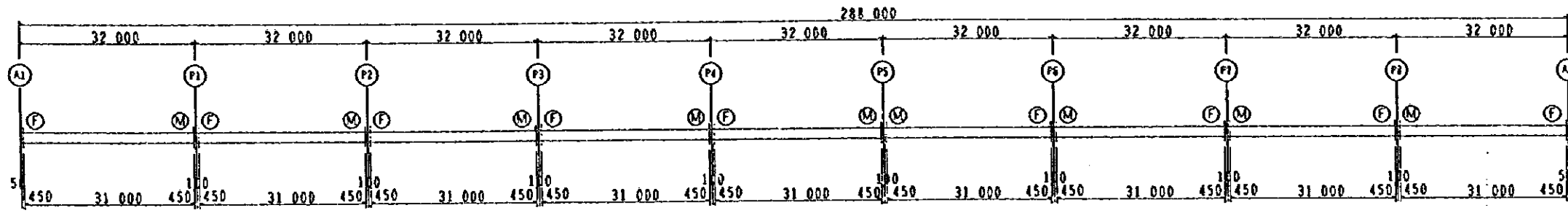
PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY

TITLE CO-ORDINATE LIST RA/02 AT B-LINE

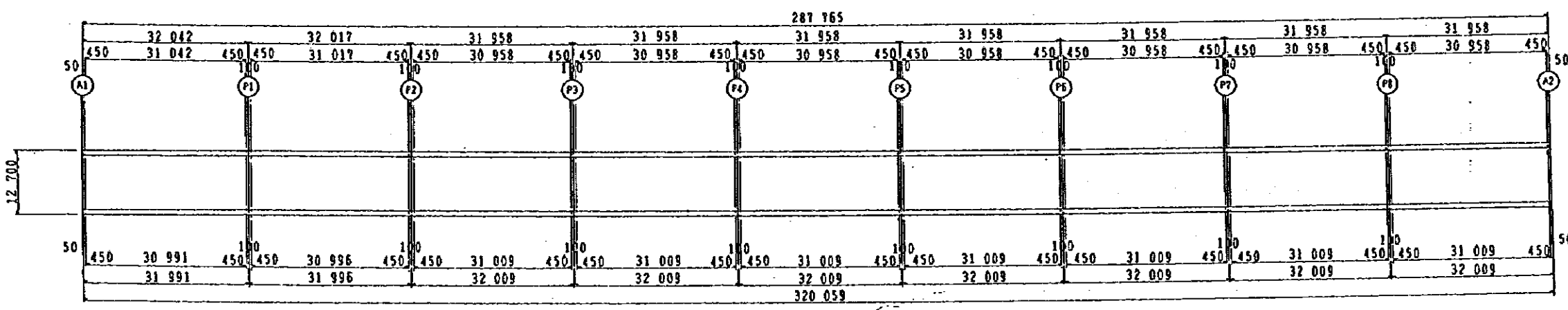
DATE

DWGNO.

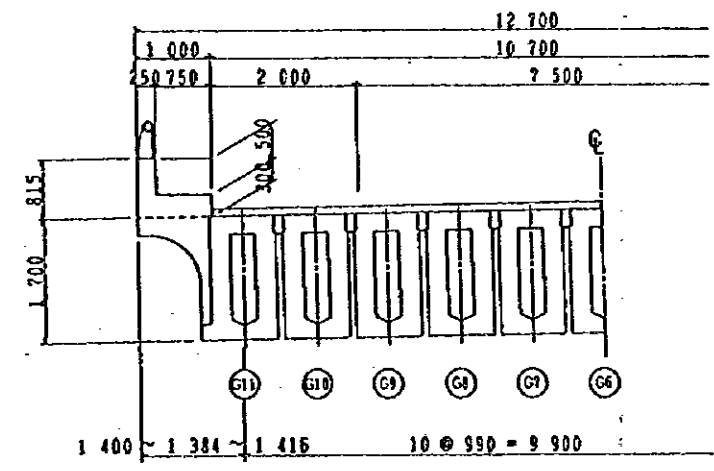
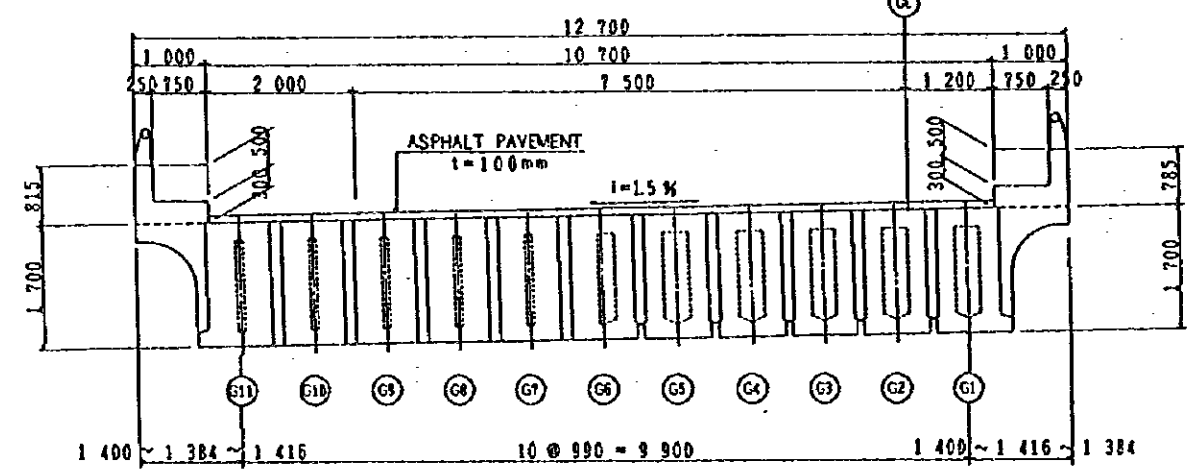
B-6



PROFILE OF BRIDGE (AT CL) s=1/1000



PLAN s=1/1000

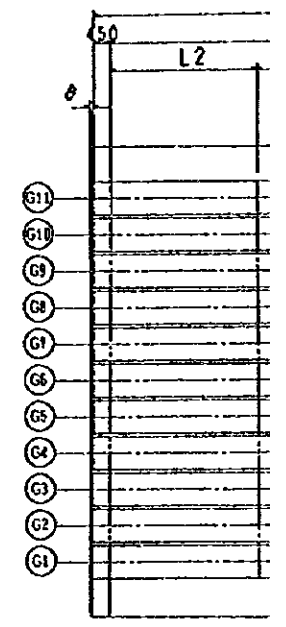


GIRDER END MIDDLE SPAN

TYPICAL SEC.

SECTION s=1/100

GENERAL VIEW OF BRIDGE AT A-LINE

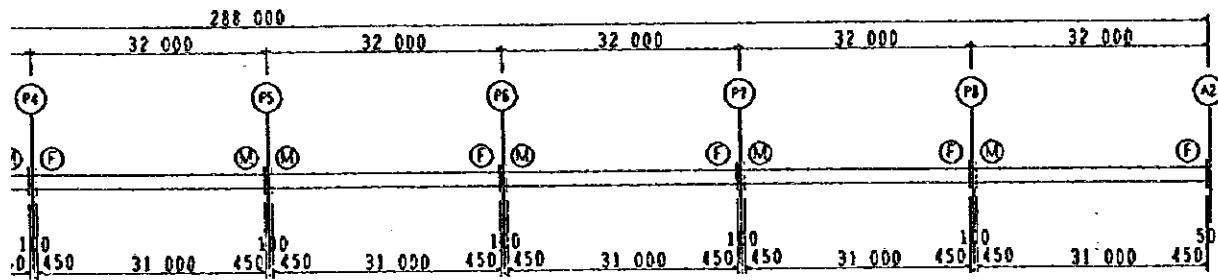


		G1
A1 ~ P1	L0	31 89
	L1	30 99
	L2	3 874
		θ 0.114'
P1 ~ P2	L0	31 90
	L1	31 01
	L2	3 875
		θ 0.114'
P2 ~ P7	L0	31 90
	L1	31 01
	L2	3 871
		θ 0.114'
P7 ~ P8	L0	31 91
	L1	31 01
	L2	3 87
		θ 0.114'
P8 ~ A2	L0	31 91
	L1	31 0
	L2	3 87
		θ 0.114'

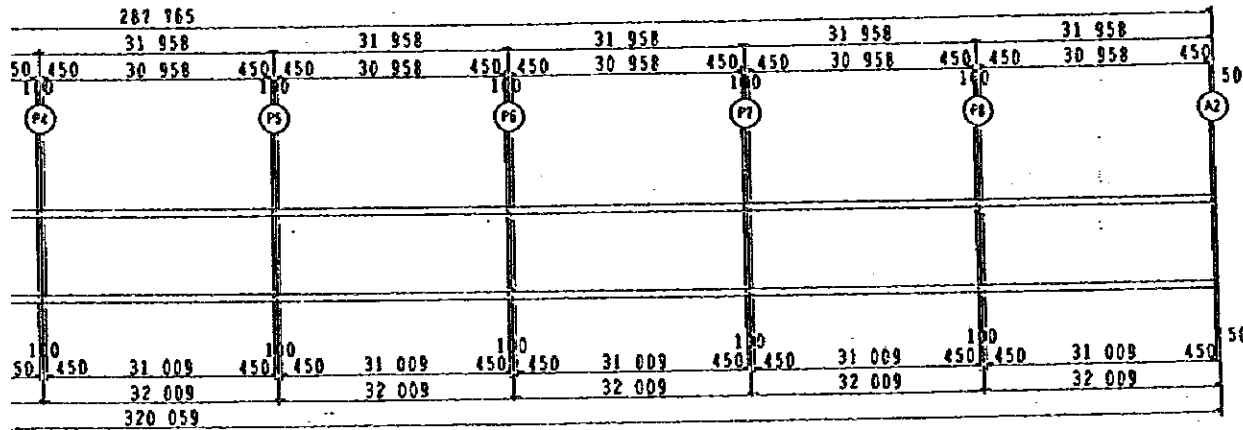
NOTES:

JAPAN INTERNATIONAL
 JICA
 PACIFIC CONSUL
 FUKUYAMA CONSUL

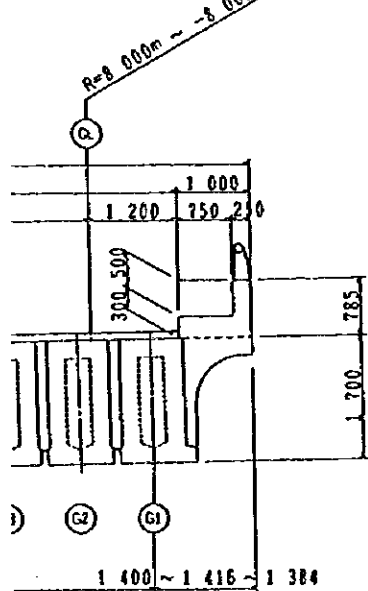
RA/2 A' NASEEM GARDEN



F BRIDGE (AT CL) S= 1/1000

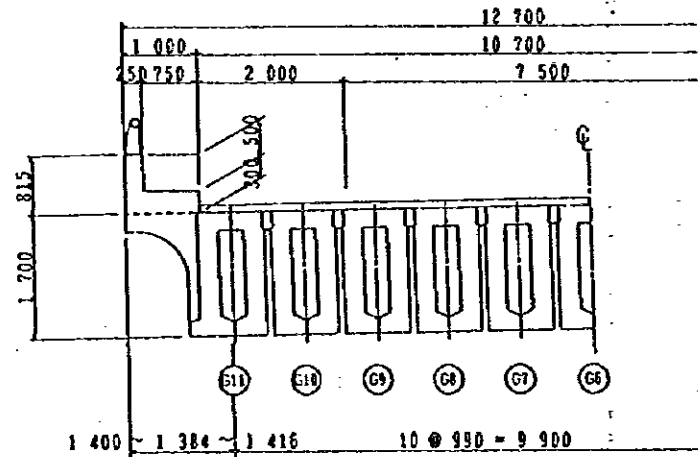


PLAN S= 1/1000



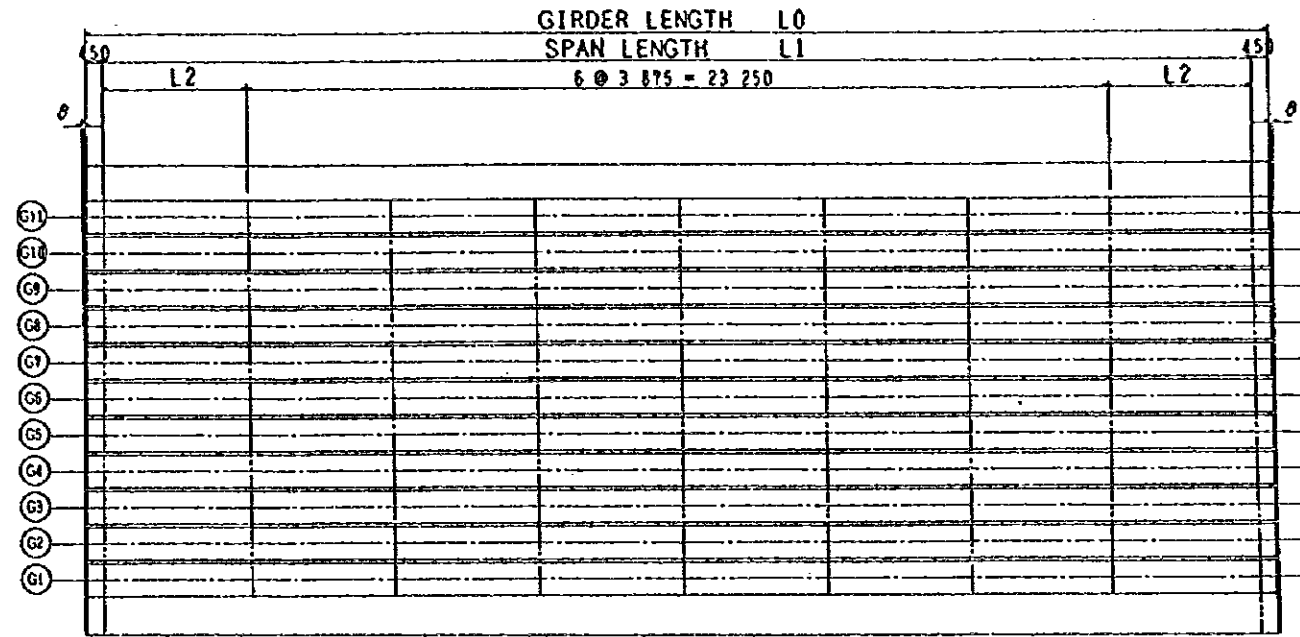
PAN

SECTION S= 1/100



TYPICAL SEC.

GENERAL VIEW OF BRIDGE AT A-LINE



GIRDER LENGTH

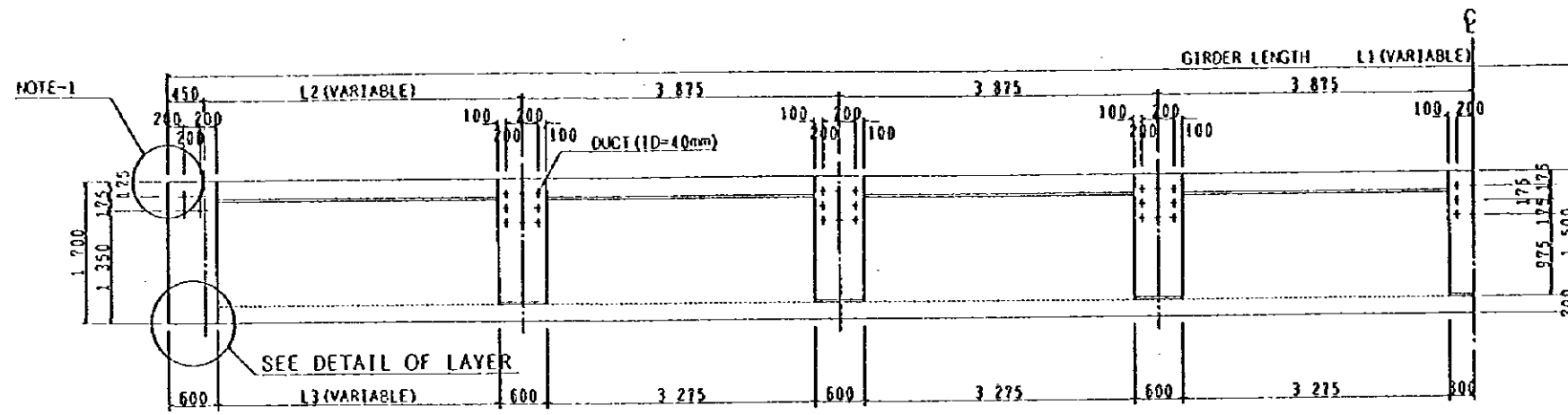
R= 8 000m
? (AT CL)
R=-8 000m

	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11	REMARKS	
A1 ~ P1	L0	31 899	31 903	31 907	31 911	31 915	31 919	31 923	31 927	31 931	31 935	31 939	INCLINED LENGTH
	L1	30 999	31 003	31 007	31 011	31 015	31 019	31 023	31 027	31 031	31 035	31 039	"
	L2	3 874.5	3 876.5	3 878.5	3 880.5	3 882.5	3 884.5	3 886.5	3 888.5	3 890.5	3 892.5	3 894.5	"
	θ	0.11458	0.11458	0.11458	0.11458	0.11458	0.11458	0.11458	0.11458	0.11458	0.11458	0.11458	"
P1 ~ P2	L0	31 900	31 902	31 903	31 905	31 906	31 908	31 910	31 911	31 913	31 914	31 916	INCLINED LENGTH
	L1	31 000	31 002	31 003	31 005	31 006	31 008	31 010	31 011	31 013	31 014	31 016	"
	L2	3 875.0	3 876.0	3 876.5	3 877.5	3 878.0	3 879.0	3 880.0	3 880.5	3 881.5	3 882.0	3 883.0	"
	θ	0.11458	0.11458	0.11458	0.11458	0.11458	0.11458	0.11458	0.11458	0.11458	0.11458	0.11458	"
P2 ~ P3	L0	31 903	31 899	31 895	31 891	31 887	31 883	31 880	31 876	31 872	31 868	31 864	INCLINED LENGTH
	L1	31 003	30 999	30 995	30 991	30 987	30 983	30 980	30 976	30 972	30 968	30 964	"
	L2	3 876.5	3 874.5	3 872.5	3 870.5	3 868.5	3 866.5	3 865.0	3 863.0	3 861.0	3 859.0	3 857.0	"
	θ	0.11458	0.11458	0.11458	0.11458	0.11458	0.11458	0.11458	0.11458	0.11458	0.11458	0.11458	"
P3 ~ P4	L0	31 905	31 901	31 897	31 893	31 889	31 885	31 881	31 877	31 873	31 869	31 865	INCLINED LENGTH
	L1	31 005	31 001	30 997	30 993	30 989	30 985	30 981	30 977	30 973	30 969	30 965	"
	L2	3 877.5	3 877.5	3 873.5	3 871.5	3 869.5	3 867.5	3 865.5	3 863.5	3 861.5	3 859.5	3 857.5	"
	θ	0.11458	0.11458	0.11458	0.11458	0.11458	0.11458	0.11458	0.11458	0.11458	0.11458	0.11458	"
P4 ~ A2	L0	31 906	31 902	31 898	31 894	31 890	31 886	31 882	31 878	31 874	31 870	31 866	INCLINED LENGTH
	L1	31 006	31 002	30 998	30 994	30 990	30 986	30 982	30 978	30 974	30 970	30 966	"
	L2	3 878.0	3 876.0	3 874.0	3 872.0	3 870.0	3 868.0	3 866.0	3 864.0	3 862.0	3 860.0	3 858.0	"
	θ	0.11458	0.11458	0.11458	0.11458	0.11458	0.11458	0.11458	0.11458	0.11458	0.11458	0.11458	"

DIMENSION LIST FOR A-LINE

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS	
	PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY	
JICA STUDY TEAM PACIFIC CONSULTANTS INTERNATIONAL FUKUYAMA CONSULTANTS INTERNATIONAL	TITLE	GENERAL VIEW OF BRIDGE AT A-LINE
	DATE	DWGNO. B-7

RA/2 A' NASEEM GARDEN



L1	31 939 ~ 31 864
L2	3 894.5 ~ 3 852.0
L3	3 444.5 ~ 3 402.0

MAX., MIN. VALUE OF L

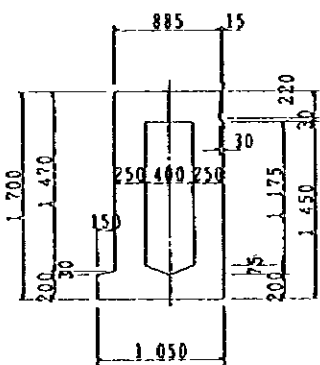
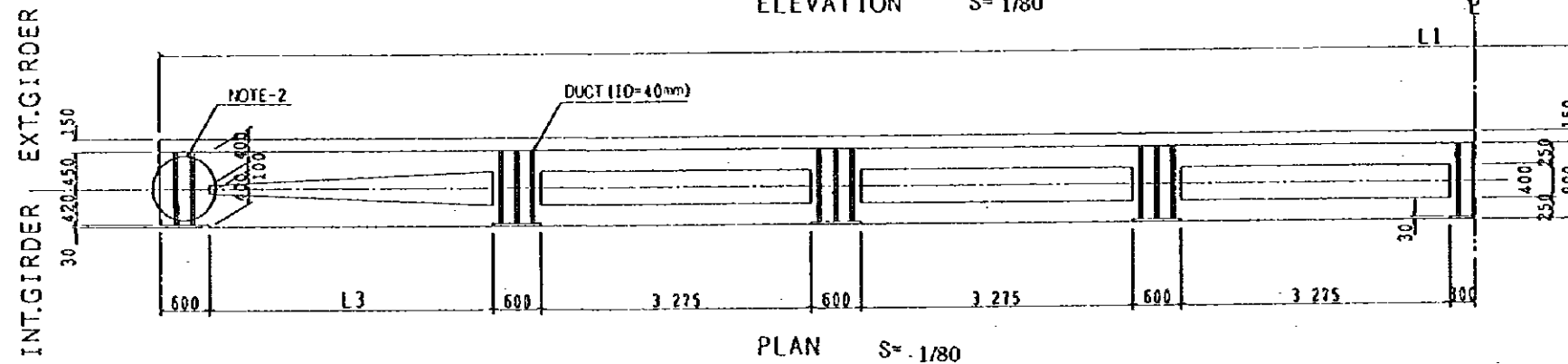
SEE AND CHECK VALUE OF L PER GIRDER FROM GENERAL VIEW SHEET (DIMENSION LIST)

NOTE-1:

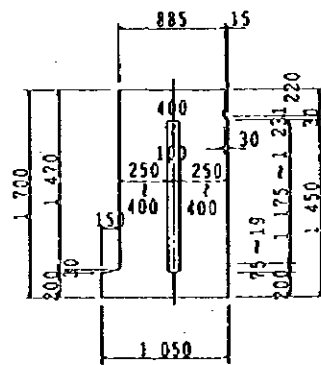
CONSIDERING THE EFFECT OF LONGITUDINAL SLOPE (1%) TO END GIRDER BOTH ENDS SHOULD BE FIXED PARALLEL TO Y-AXIS

NOTE-2:

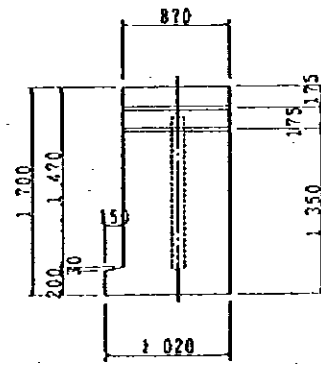
INCLINED TENDON ENCASUREMENT FOR ABUTMENTS AND PIERS ONLY. SEE VALUE OF θ



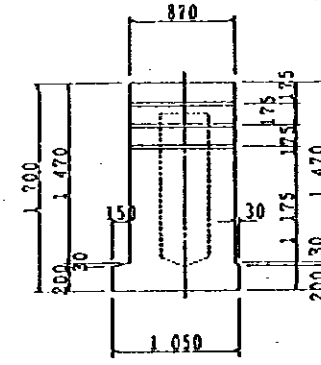
TYPICAL SECTION



AT WEB WIDENED

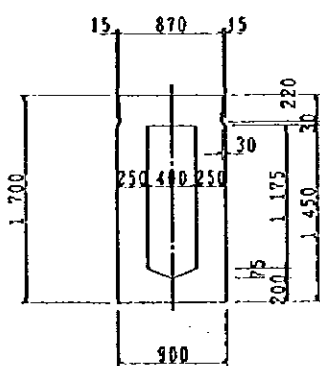


AT GIRDER END

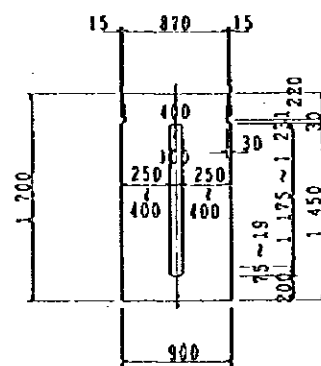


AT CROSS BEAM

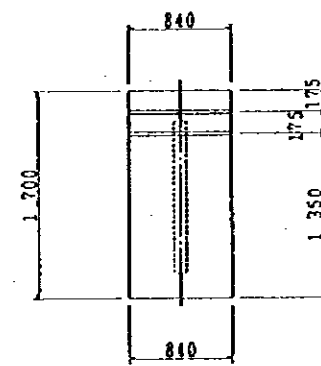
SECTION OF EXT.GIRDER S= 1/60



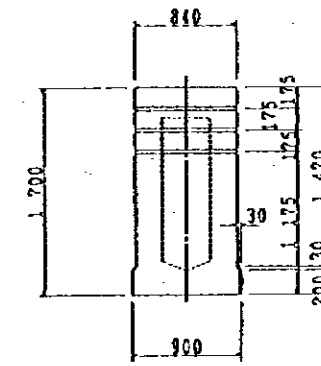
TYPICAL SECTION



AT WEB WIDENED

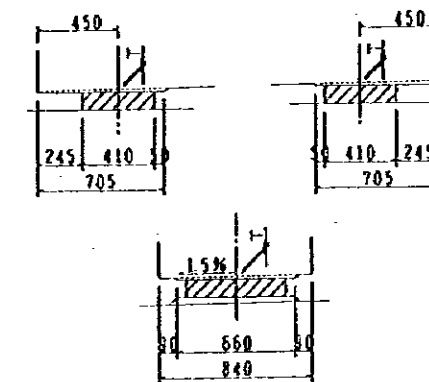


AT GIRDER END



AT CROSS BEAM

SECTION OF INT.GIRDER S= 1/60



DETAIL OF LAYER S= 1/40

	T	REMARKS
(A1) ~ (P1)	FIX	17
(P1) ~ (A2)	NOV.	19
(P1) ~ (P2)	FIX	25
(P2) ~ (P3)	NOV.	15
(P2) ~ (P3)	FIX	23
(P3) ~ (P4)	NOV.	17
(P3) ~ (P4)	FIX	22
(P5) ~ (P6)	NOV.	18
(P4) ~ (P5)	FIX	20
(P4) ~ (P5)	NOV.	20

STRUCTURAL DETAIL OF MAIN GIRDER AT A-LINE

NOTES:

JAPAN INTERNATIONAL COOPERATION AGENCY
(JICA)
JICA STUDY TEAM
PACIFIC CONSULTANTS INTERNATIONAL
FUKUYAMA CONSULTANTS INTERNATIONAL

CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
TITLE: STRUCTURAL DETAIL OF MAIN GIRDER AT A-LINE
DATE: _____ DWGNO. B-8

RA/2 A' NASEEM GARDEN

L0	31 939 ~ 31 864
L1	15 819.5 ~ 15 782.0
L2	14 619.5 ~ 14 582.0

SEE AND CHECK VALUE OF L FOR OTHER GIRDER LENGTH FROM GENERAL VIEW SHEET

	L1	L2	α (rad)	S1	S2	2x(S1+S2)	W / Cable	W (kg)
(C1) (C2)	15 795	14 595	61344	1 207	14 623	31 660	418.3	836.6
(C3) (C4)	15 795	14 595	28987	1 202	14 601	31 606	417.6	835.2
TOTAL								1 671.8

W COMPUTED BASED ON GIRDER LENGTH 31.890m (AVE.)
EXTRA LENGTH FOR TENSIONING IS NOT INCLUDED
 $w = 13.212 \text{ kg/m/Cable (12T15.2B)}$

NOTE :

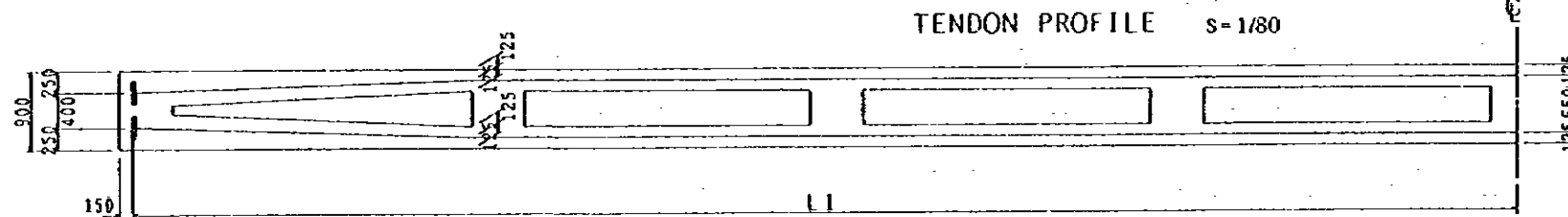
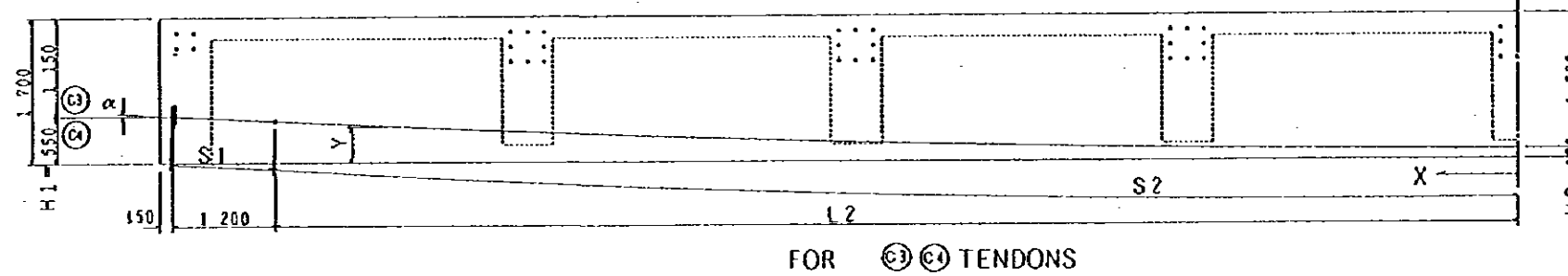
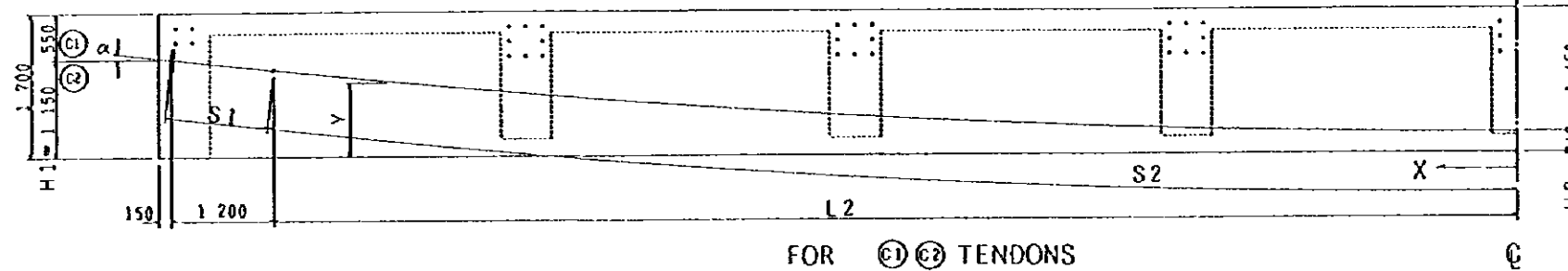
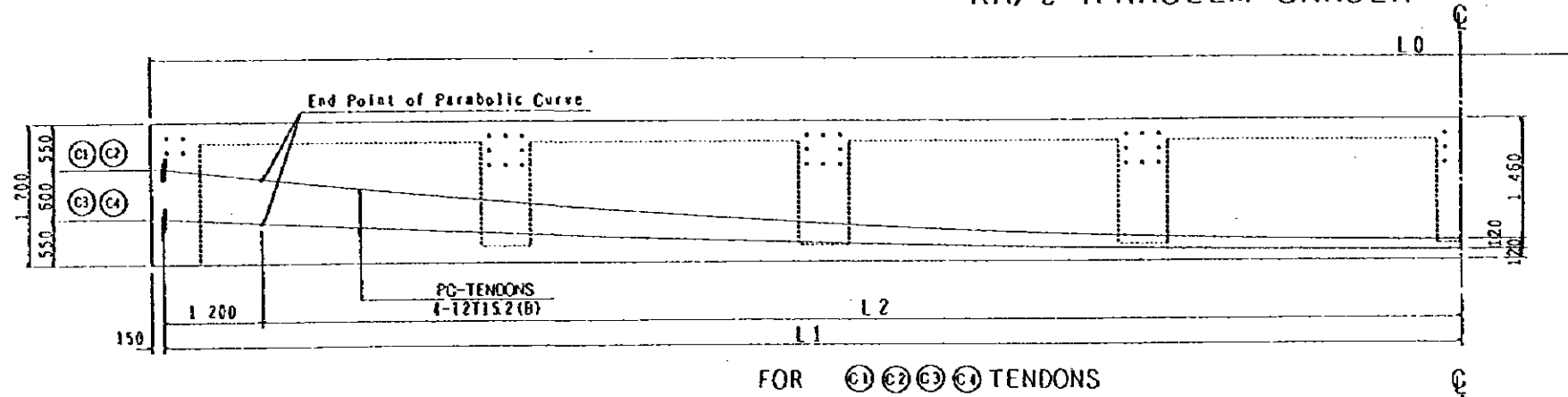
$$Y = (H1 - H2) / (L2 \times (L2 \times L1 - L2)) \times X^2 + H2$$

$$\alpha = 2 \times (H1 - H2) / (2 \times L1 - L2) \text{ rad.}$$

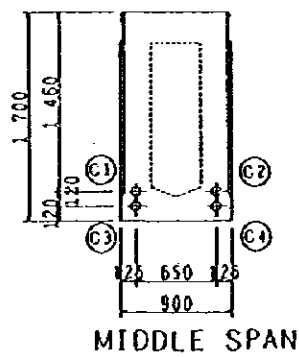
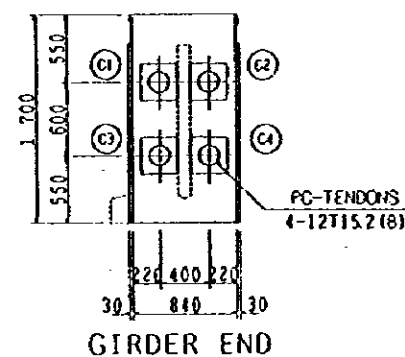
$$S1 = 1\ 200 / \cos \alpha$$

$$S2 = L2 \times (1 + 8/3 \times n^2 - 32/5 \times n^4 + 128/7 \times n^6 - 512/9 \times n^8)$$

$$n = (H1 - H2 - \tan \alpha \times 1\ 200) / (2 \times L2)$$

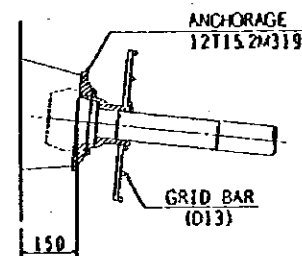


PLAN s=1/80

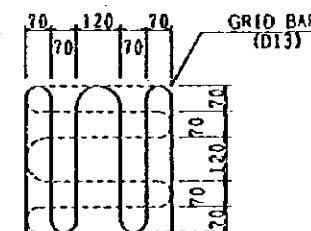


SECTION s=1/60

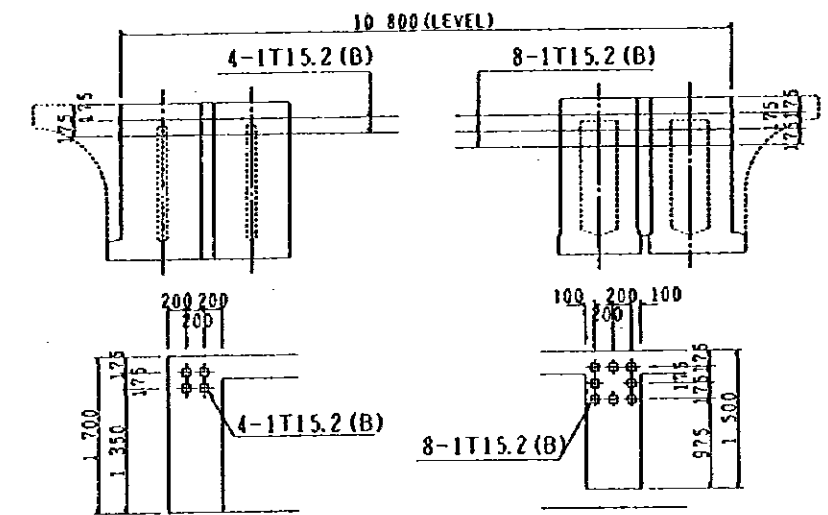
FOR MAIN GIRDER



DETAIL OF ANCHORAGE s=1/20



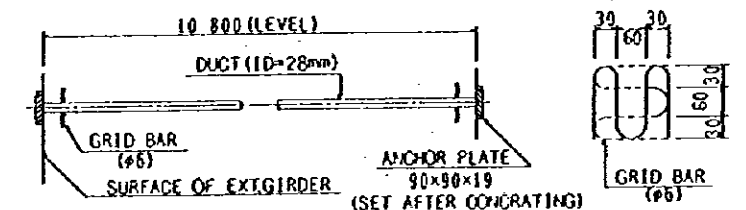
DETAIL OF TENDONS AT A-LINE



GIRDER END

CROSS BEAM

LATERAL TENDON ARRANGEMENT s=1/80



DETAIL OF ANCHORAGE s=1/20, 1/10

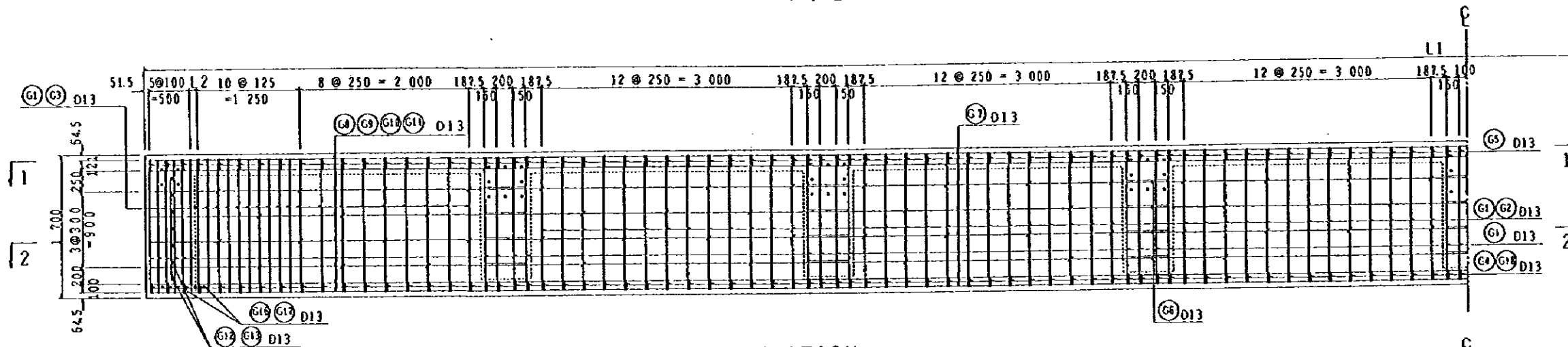
FOR CROSS BEAM

NOTES:

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
JICA STUDY TEAM
PACIFIC CONSULTANTS INTERNATIONAL
FUKUYAMA CONSULTANTS INTERNATIONAL

CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAB HIGHWAY
TITLE: DETAIL OF TENDONS AT A-LINE
DATE: _____ DWGNO. B-9

RA/2 A' NASEEM GARDEN

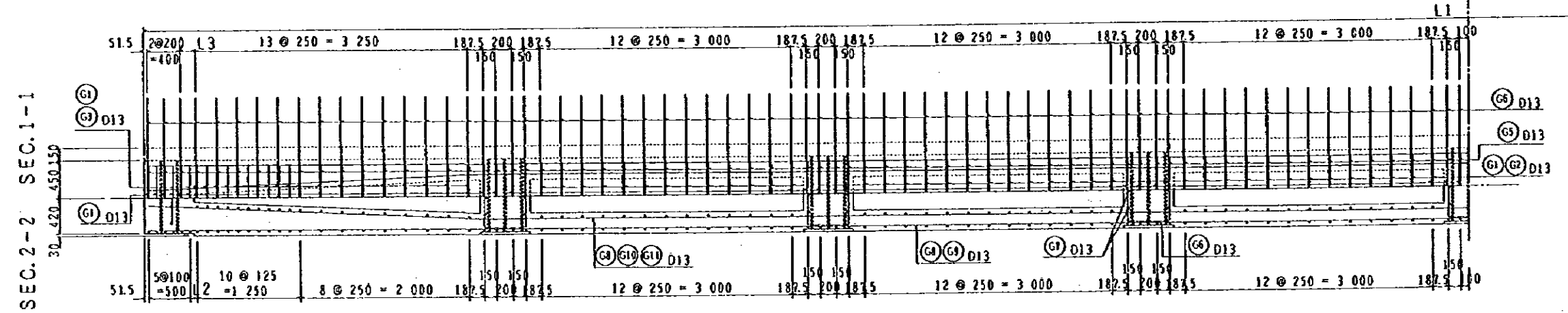


ELEVATION s = 1/60

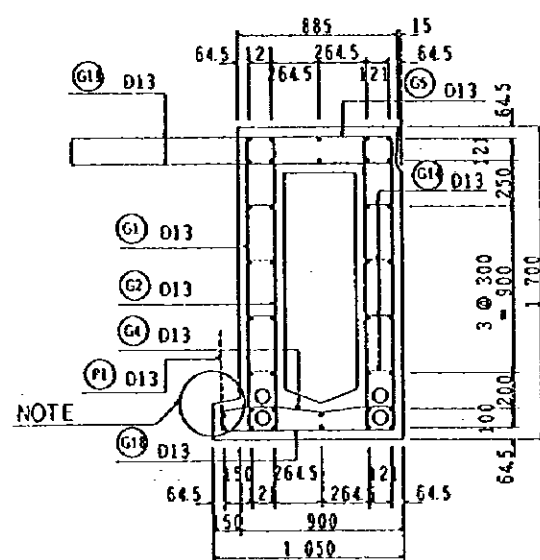
L1	31 939 ~ 31 864
L2	105.5 ~ 68.0
L3	205.5 ~ 168.0

SEE AND CHECK VALUE OF 'L' FOR OTHER EXT. GIRDER LENGTH FROM GENERAL VIEW SHEET

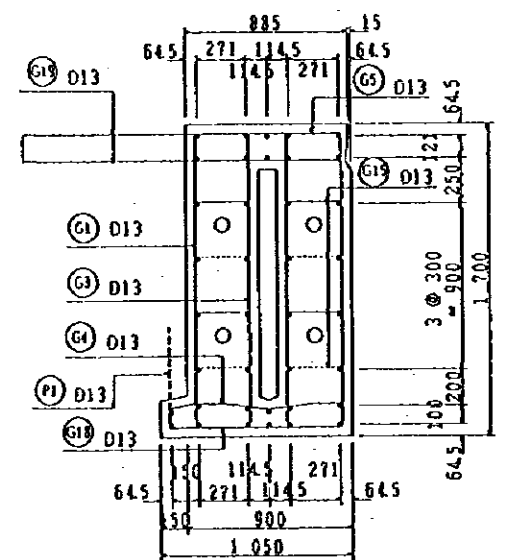
NOTE :
FOR ALTERNATIVE CONSTRUCTION JOINT, INSERT INSIDE THREADED JOINT TO HANDLE PLANTED VERTICAL BAR



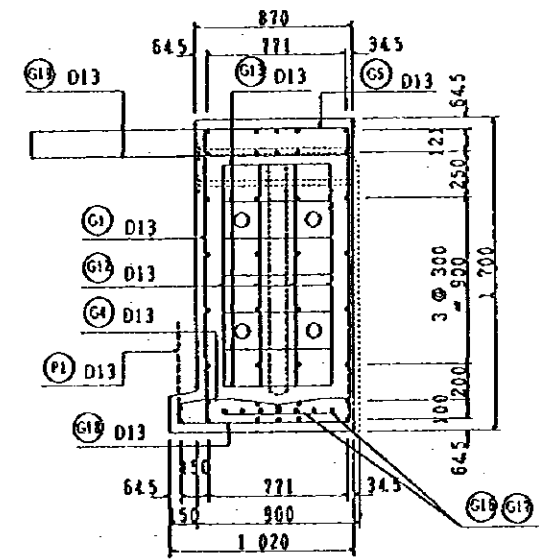
PLAN s = 1/60



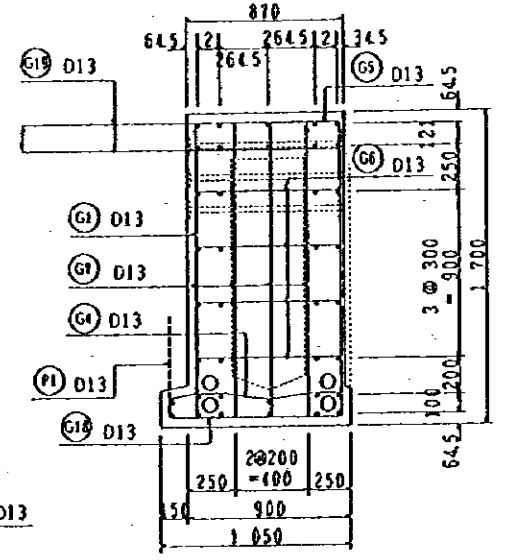
TYPICAL SECTION



AT WEB WIDENED



AT GIRDER END

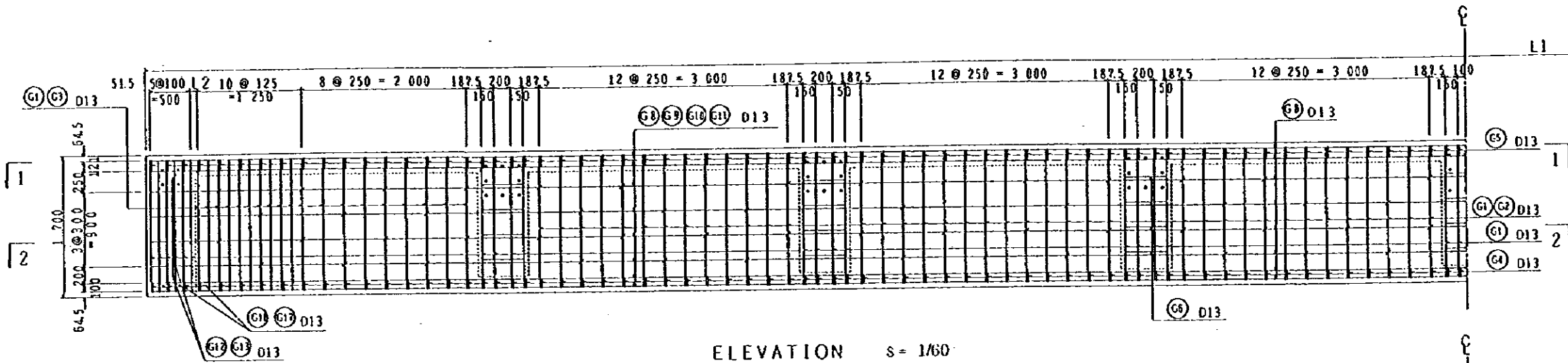


AT CROSS BEAM

SECTION s = 1/40
A-LINE RE-BAR ARRANGEMENT-1 (EXT. GIRDER)

NOTES:	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
	JICA STUDY TEAM PACIFIC CONSULTANTS INTERNATIONAL FUKUYAMA CONSULTANTS INTERNATIONAL	PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
		TITLE: RE-BAR ARRANGEMENT(1/2) AT A-LINE
		DATE: _____ DWGNO. B-10

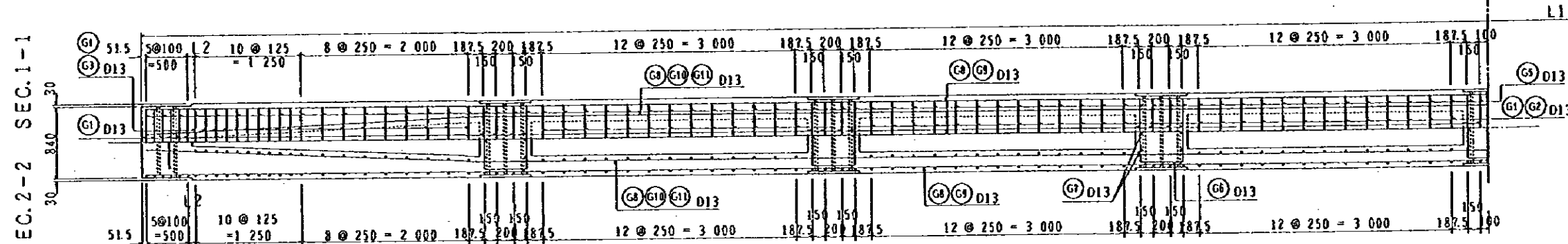
RA/2 A NASEEM GARDEN



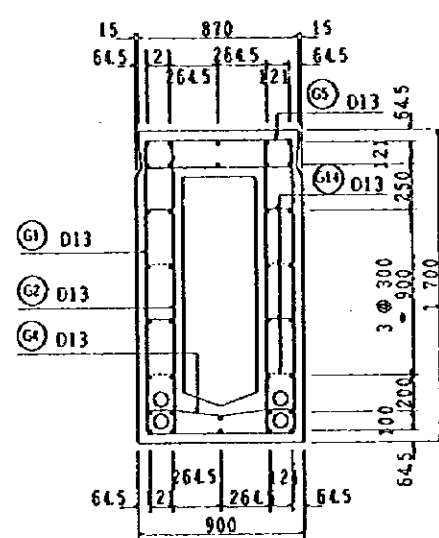
ELEVATION s=1/60

L1	31 935 ~ 31 868
L2	1015 ~ 680

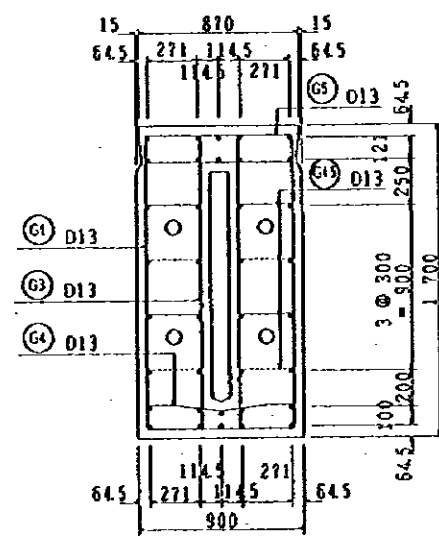
SEE AND CHECK VALUE OF 'L' FOR OTHER INT.GIRDER LENGTH FROM GENERAL VIEW SHEET



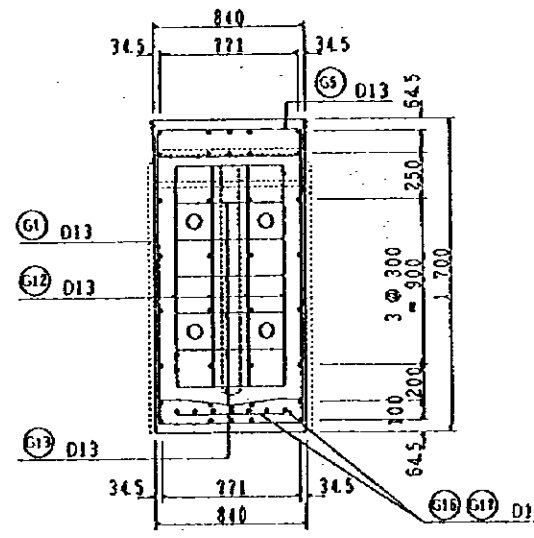
PLAN s=1/60



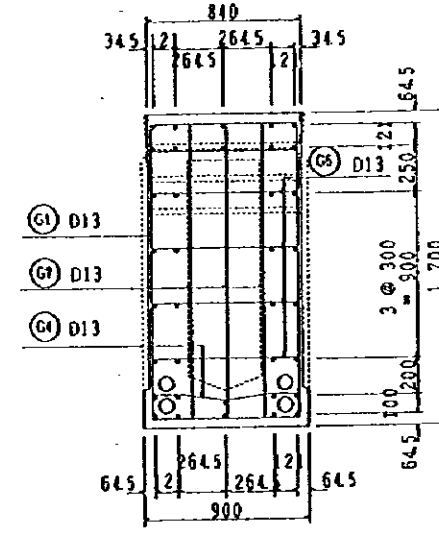
TYPICAL SECTION



AT WEB WIDENED



AT GIRDER END



AT CROSS BEAM

SECTION s=1/40

A-LINE RE-BAR ARRANGEMENT-2 (INT.GIRDER)

NOTES:

JAPAN INTERNATIONAL COOPERATION AGENCY
(JICA)

JICA STUDY TEAM
PACIFIC CONSULTANTS INTERNATIONAL
FUKUYAMA CONSULTANTS INTERNATIONAL

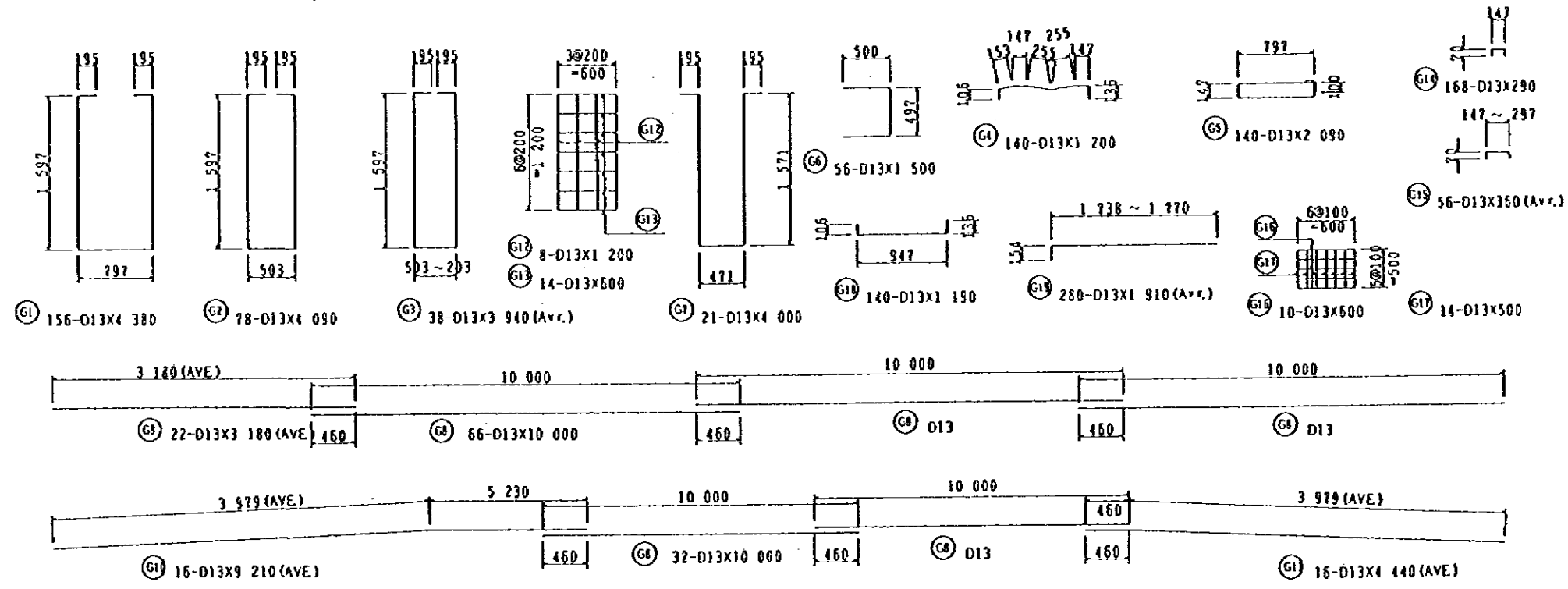
CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS

PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BAYINAH HIGHWAY

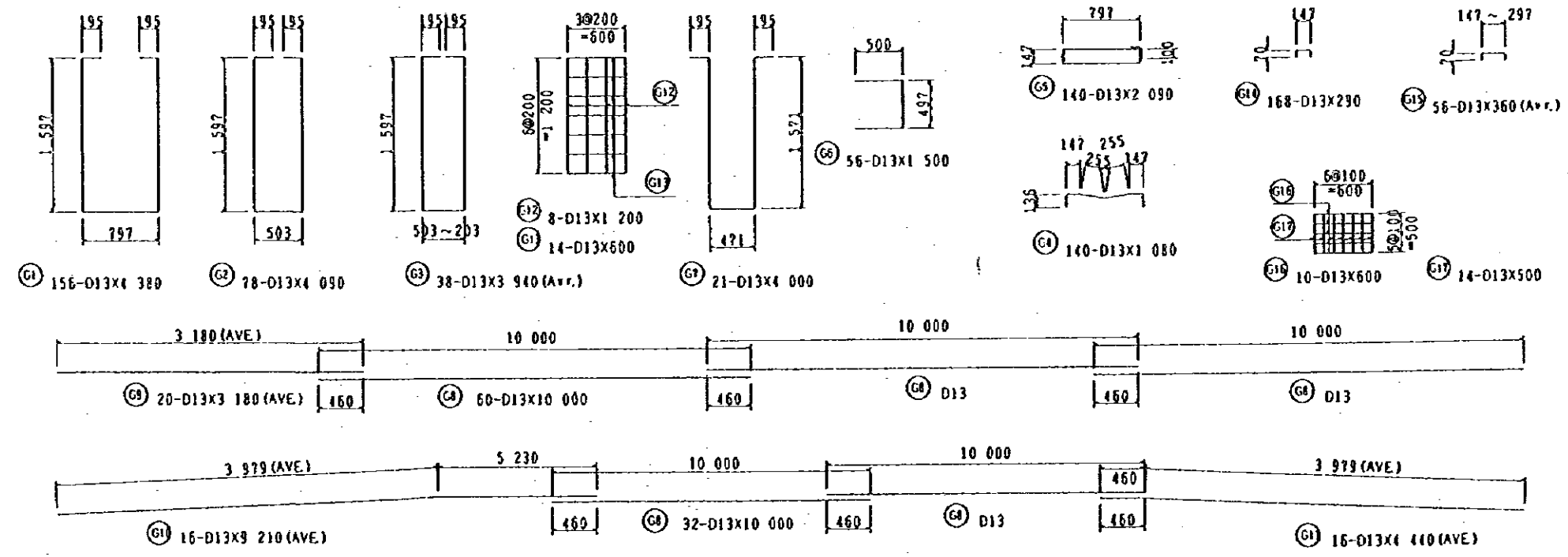
TITLE: RE-BAR ARRANGEMENT(2/2) AT A-LINE

DATE: _____ DWGNO. B-11

RA/2 A' NASEEM GARDEN



FOR EXT.GIRDER S= 1/60

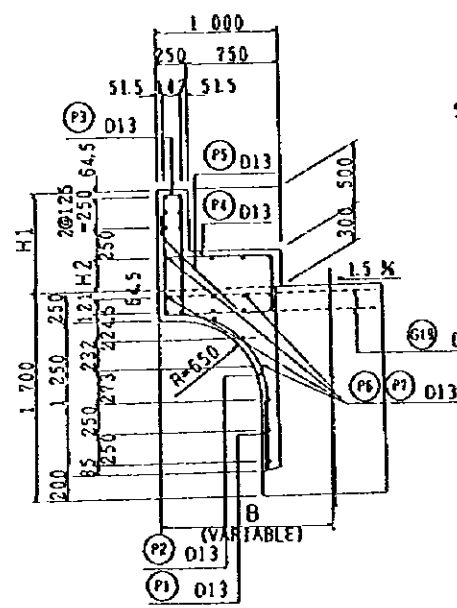


FOR INT.GIRDER S= 1/60

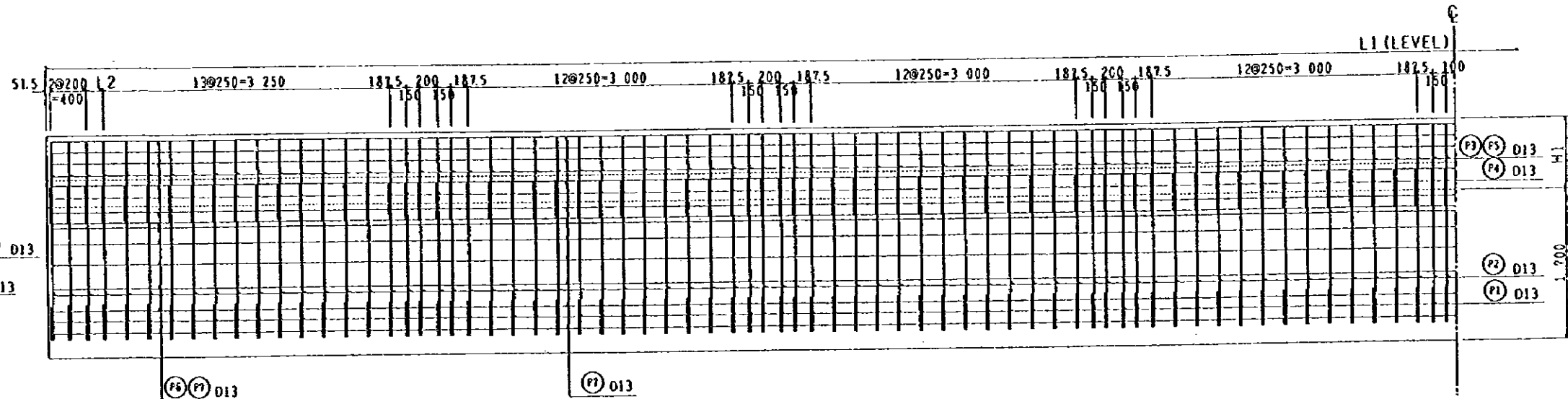
BAR SCHEDULE OF MAIN GIRDER AT A-LINE

NOTES:	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
	JICA STUDY TEAM PACIFIC CONSULTANTS INTERNATIONAL FUKUYAMA CONSULTANTS INTERNATIONAL	PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
		TITLE: BAR SCHEDULE OF MAIN GIRDER AT A-LINE
		DATE: _____ DWGNO. B-12

RA/2 A' NASEEM GARDEN



SECTION

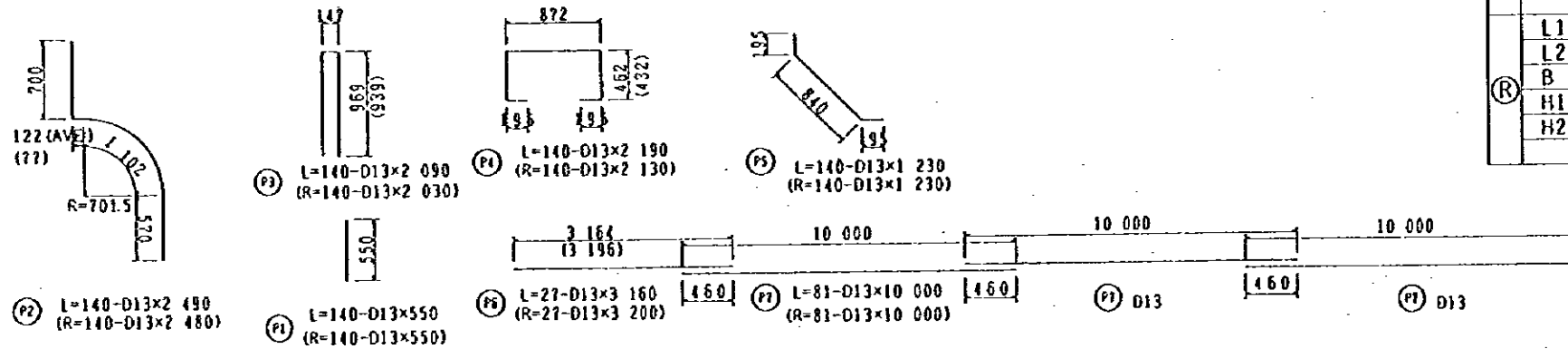


ELEVATION

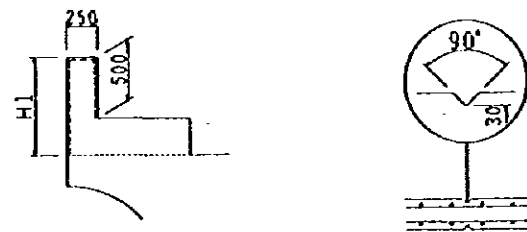
RE-BAR ARRANGEMENT S= 1/60

	(A1) ~ (P1)	(P1) ~ (P2)	(P2) ~ (A2)	AVERAGE	REMARKS
L1	31 942	31 917	31 858	31 874	LEVEL
L2	2020	1945	1650	1730	LEVEL
B	1 400 ~ 1 416	1 400 ~ 1 410	1 400 ~ 1 385	1 396	VARIABLE
H1	815	815	815	815	
H2	250.5	250.5	250.5	250.5	
L1	31 891	31 896	31 909	31 906	LEVEL
L2	1815	1840	1905	1840	LEVEL
B	1 400 ~ 1 384	1 400 ~ 1 390	1 400 ~ 1 415	1 404	VARIABLE
H1	785	785	785	785	
H2	230.5	230.5	230.5	230.5	

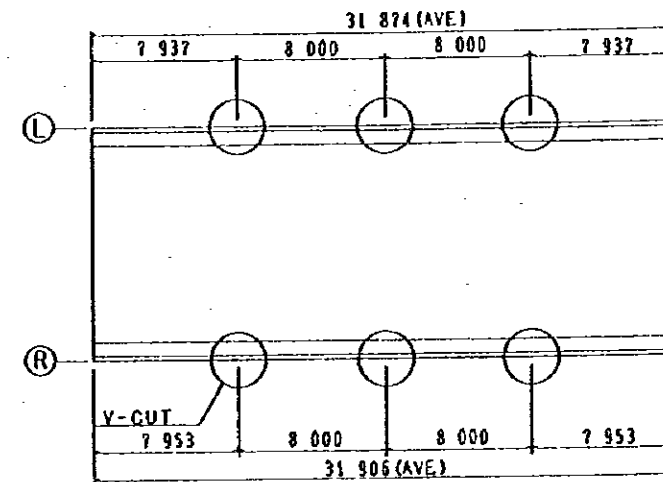
DIMENSION LIST



BAR SCHEDULE



DETAIL OF V-CUT S= 1/60



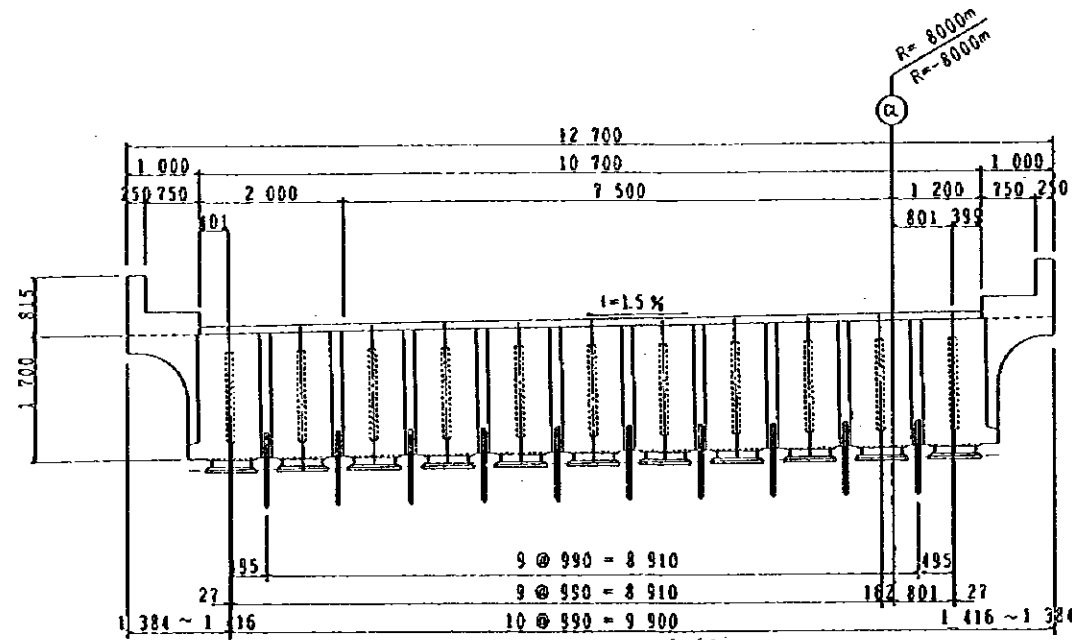
RAILING AND CANTILEVER SLAB AT A-LINE

NOTES:

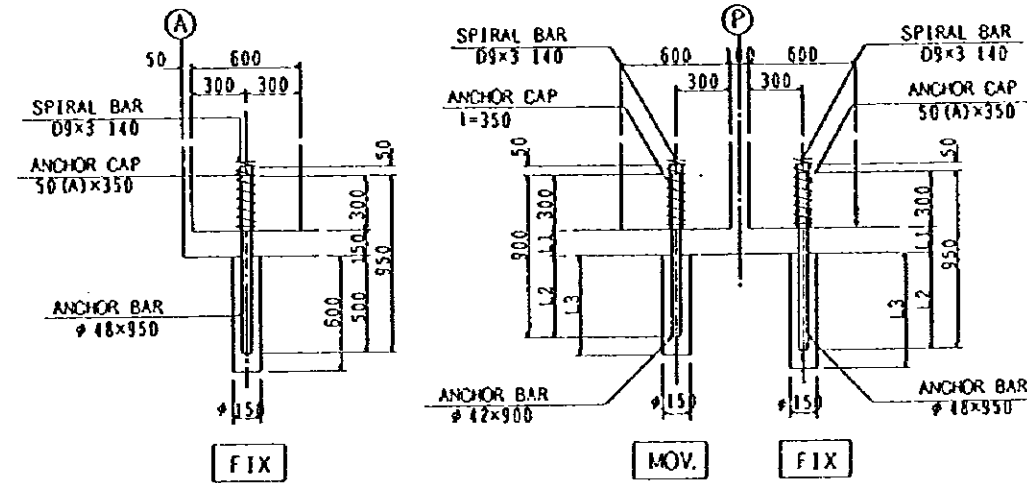
JAPAN INTERNATIONAL COOPERATION AGENCY
(JICA)
JICA STUDY TEAM
PACIFIC CONSULTANTS INTERNATIONAL
FUKUYAMA CONSULTANTS INTERNATIONAL

CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
PROJECT: D/B ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
TITLE: RAILING AND CANTILEVER SLAB AT A-LINE
DATE: _____ DWGNO. B-13

RA/2 A'NASEEM GARDEN

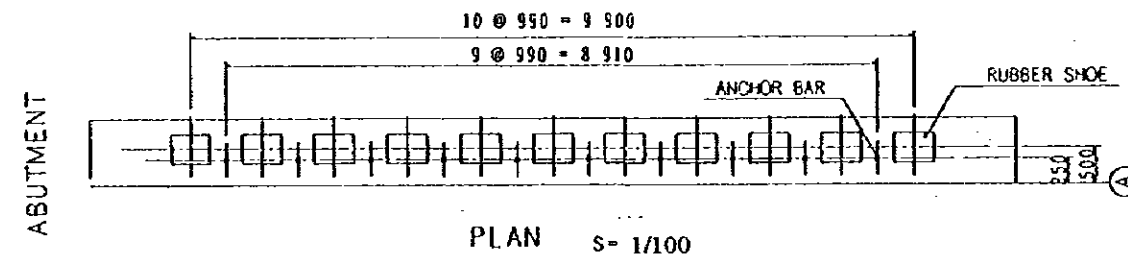
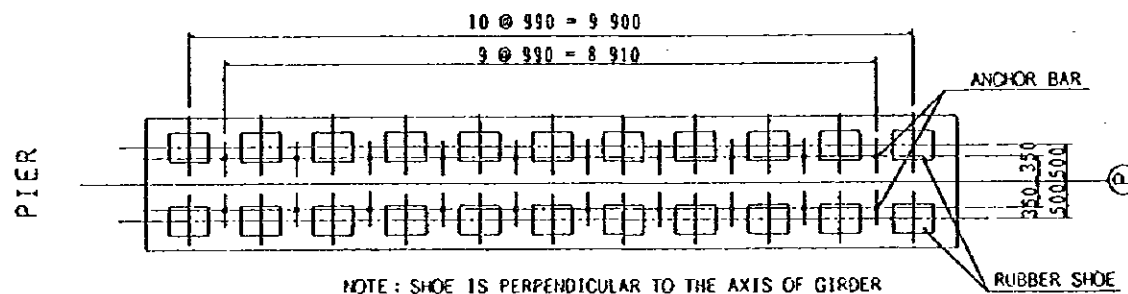


SECTION S-1/100

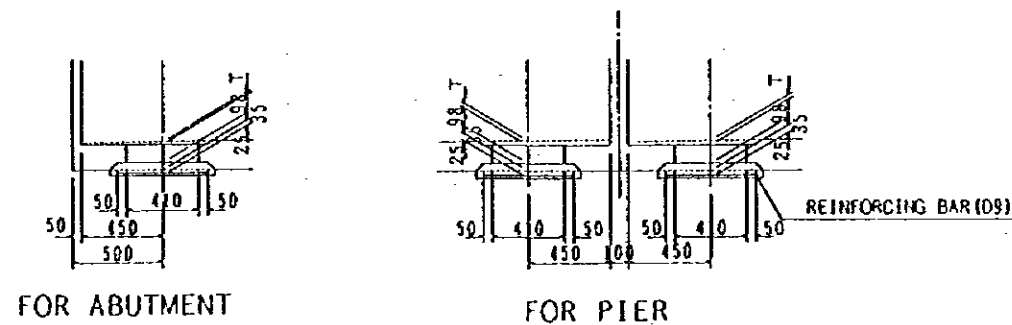


FOR ABUTMENT FOR PIER
DETAIL OF ANCHOR BAR s= 1/40

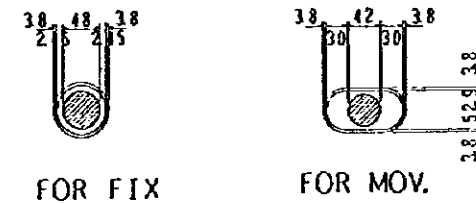
	T	L1	L2	L3	
A1~P1	FIX	17	150	500	600
P1~A2	MOV.	13	146	454	555
P1~P2	FIX	25	158	492	600
P2~P3	MOV.	15	148	452	555
P2~P3	FIX	23	156	494	600
P3~P4	MOV.	17	150	450	555
P3~P4	FIX	22	155	495	600
P4~P5	MOV.	18	151	449	555
P4~P5	FIX	20	153	497	600
P5~P6	MOV.	20	153	447	555



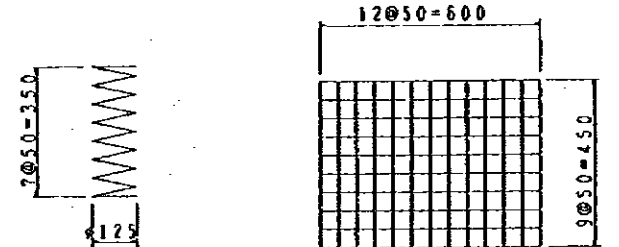
DETAIL OF SHOE AND ANCHOR BAR



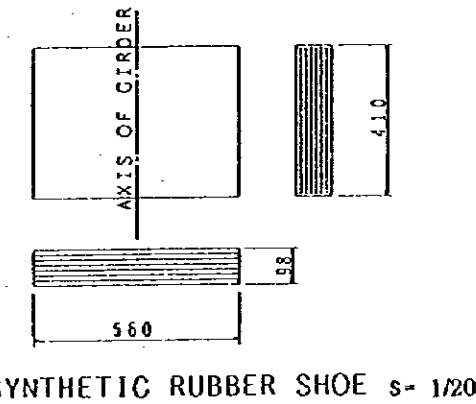
FOR ABUTMENT FOR PIER
DETAIL OF SHOE s= 1/40



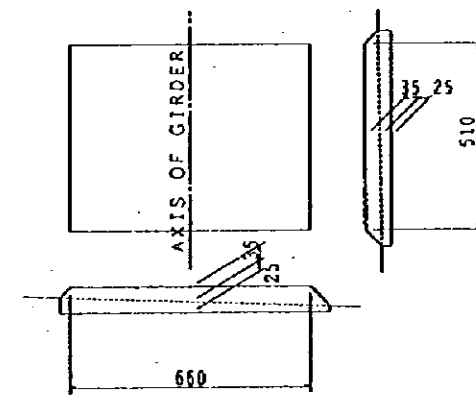
ANCHOR CAP s= 1/10



SPIRAL BAR (D9) S= 1/40 REINFORCING BAR (D9) S= 1/40



SYNTHETIC RUBBER SHOE s= 1/20



SHOE BASE s= 1/20

(PER SPAN)

	DESCRIPTION	UNIT	QUANTITY	REMARKS
FIX	ANCHOR BAR (GALV.)	kg	135.0	w=1350 kg/pc.
	ANCHOR CAP (GALV.)	kg	18.6	w=1.86 kg/pc.
	FILLER	kg	3.4	w=0.339 kg/anc.
	SYNTHETIC RUBBER SHOE	Pcs	11	560x410x98
	REINFORCING BAR	kg	73.0	w=6.64 kg/Set
	SPIRAL BAR	kg	17.6	w=1.76 kg/pc.
	NON SHRINKAGE MORTAR	m ³	0.264	0.024m ³ /Shoe
MOV.	ANCHOR BAR (GALV.)	kg	97.9	w=979 kg/pc.
	ANCHOR CAP (GALV.)	kg	28.9	w=2.89 kg/pc.
	FILLER	kg	18.9	w=1.89 kg/anc.
	SYNTHETIC RUBBER SHOE	Pcs	11	560x410x98
	REINFORCING BAR	kg	73.0	w=6.64kg/Set
	SPIRAL BAR	kg	17.6	w=1.76 kg/pc.
	NON SHRINKAGE MORTAR	m ³	0.264	0.024m ³ /Shoe
		m ³	0.090	0.009m ³ /Hole (AVE.)

MATERIAL LIST

NOTES:

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
JICA STUDY TEAM
PACIFIC CONSULTANTS INTERNATIONAL
FUKUYAMA CONSULTANTS INTERNATIONAL

CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
TITLE: DETAIL OF SHOE AND ANCHOR BAR AT A-LINE
DATE: DWGNO. B-14