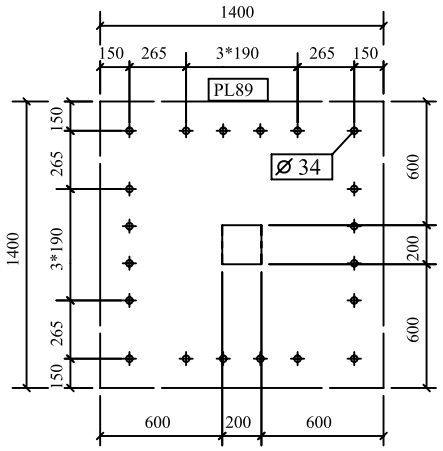
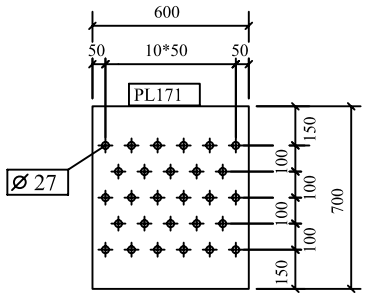
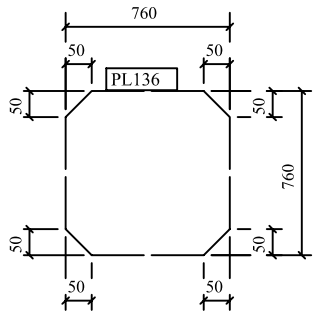
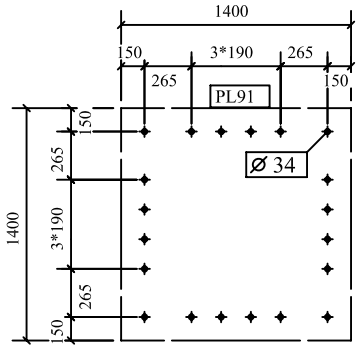
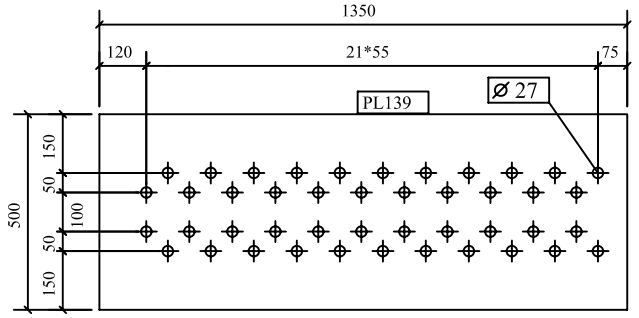


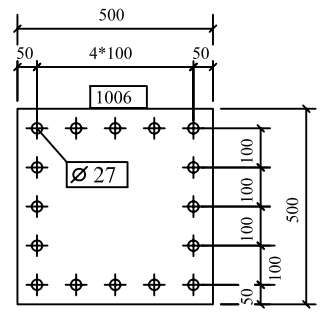


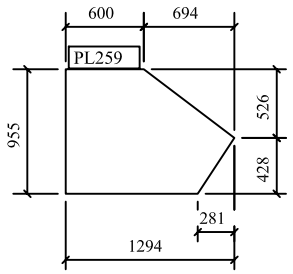


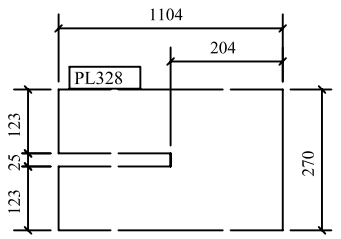


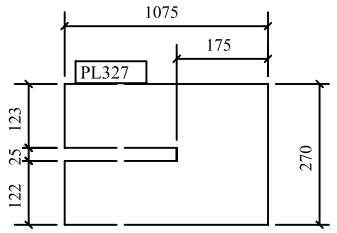


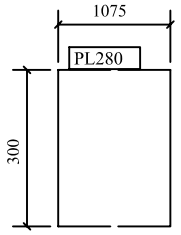
BOLT LIST FOR ASSEMBLY	CO19	1	No. Required
Diam	Grade	Length	No.
25		120	176
32		140	20
(Total bolt one assembly X no of assembly)		Total	196

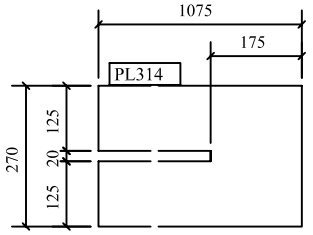


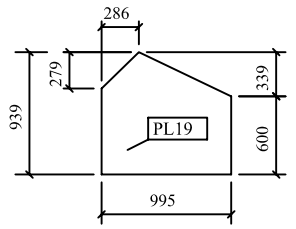


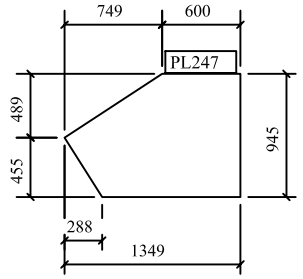


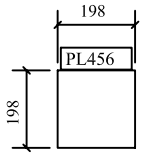


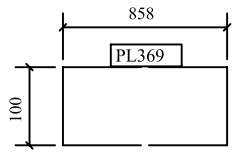


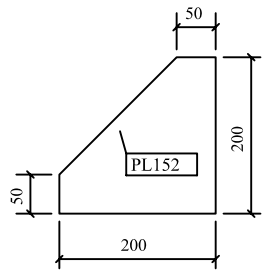


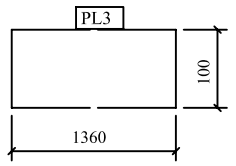


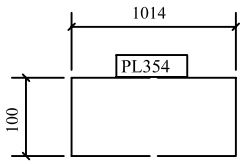


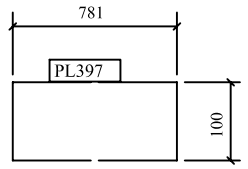


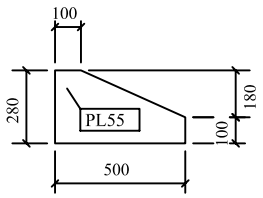


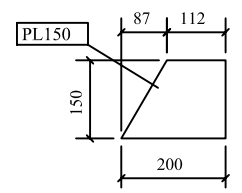


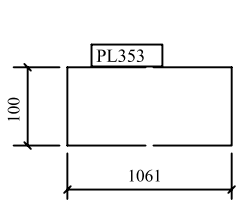


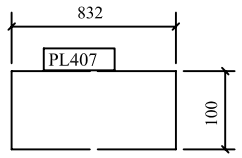


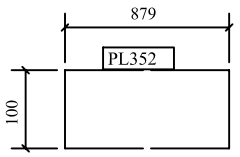


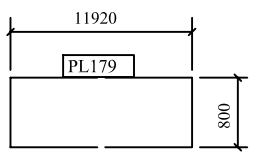


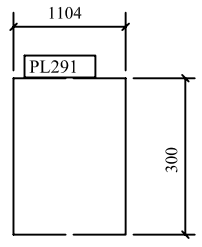


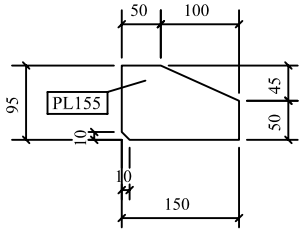


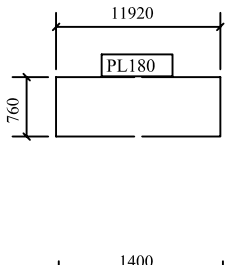


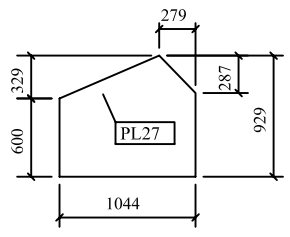


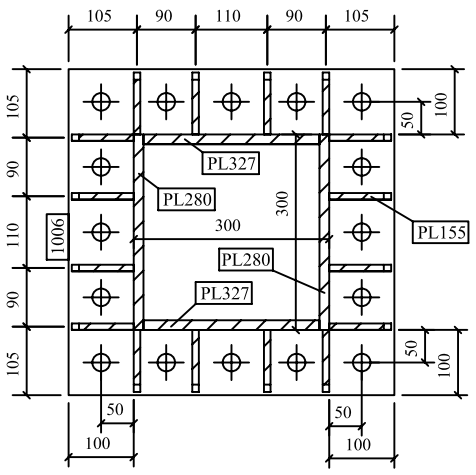




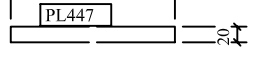


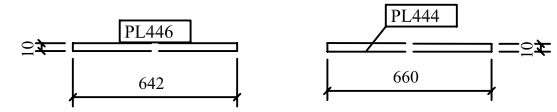






G - G





MATERIAL LIST FOR ONE ASSEMBLY MARKED		CO19	1	No. Required			
Mark	Size	No.	Length	Area	Weight	Total Area	Total Weight
1006	PL25*500	4	500	0.550	49.062	2.200	196.25
PL3	PL20*100	4	1360	0.330	21.352	1.322	85.408
PL19	PL20*939	1	995	1.617	121.53	1.617	121.53
PL27	PL20*929	1	1044	1.678	126.17	1.678	126.17
PL55	PL20*280	40	500	0.236	16.328	9.455	653.12
PL89	PL40*1400	1	1400	4.096	602.88	4.096	602.88
PL91	PL40*1400	1	1400	4.144	615.44	4.144	615.44
PL136	PL50*760	2	760	1.291	224.74	2.583	449.49
PL139	PL50*500	4	1350	1.535	264.93	6.140	1059.7
PL150	PL10*150	16	200	0.053	1.839	0.851	29.423
PL152	PL10*200	8	200	0.065	2.257	0.517	18.055
PL155	PL10*95	64	150	0.028	0.938	1.817	60.037
PL171	PL35*700	2	600	0.931	115.39	1.862	230.79
PL179	PL20*800	2	11920	19.581	1497.1	39.162	2994.3
PL180	PL20*760	2	11920	18.626	1422.2	37.251	2844.5
PL247	PL25*945	1	1349	2.152	201.25	2.152	201.25
PL259	PL25*955	1	1294	2.084	194.80	2.084	194.80
PL280	PL15*300	6	1075	0.686	37.971	4.117	227.82
PL291	PL15*300	2	1104	0.705	39.016	1.410	78.032
PL314	PL15*270	4	1075	0.612	32.054	2.447	128.21
PL327	PL15*270	2	1075	0.603	31.531	1.206	63.061
PL328	PL15*270	2	1104	0.620	32.465	1.239	64.930
PL352	PL10*100	1	879	0.195	6.903	0.195	6.903
PL353	PL10*100	1	1061	0.235	8.326	0.235	8.326
PL354	PL10*100	1	1014	0.225	7.956	0.225	7.956
PL369	PL10*100	1	858	0.191	6.735	0.191	6.735
PL397	PL10*100	1	781	0.174	6.130	0.174	6.130
PL407	PL10*100	1	832	0.185	6.533	0.185	6.533
PL444	PL100*11	1	660	0.148	5.431	0.148	5.431
PL446	PL100*10	1	642	0.143	5.039	0.143	5.039
PL447	PL100*20	4	1400	0.340	21.980	1.360	87.920
PL456	PL198*40	1	198	0.110	12.310	0.110	12.310
(Total in one assembly)					Sub Total	132.31	11198
(Total one assembly X no of assembly)					Total	132.31	11198

REV.	DATE	DESCRIPTION	DWN. BY	CHKD. BY	APPR. BY
0	14/06/2006	ISSUED FOR FABRICATION	M.H	I.N	M.S.KH

Engineering Group
A.S.PARS
مهندسین مشاور صنعتی پارس

SCALE.	PHASE.
SHEET 3 OF 3	Size:

REFRENCE DRAWING:

	REV:
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TITLE:
FABRICTION DRAWING FOR
COLUMN CO 19

CLIENT:
CEMENT ENGINEERING SERVICES CO.

PROJECT.TITLE:
KHUZESTAN EXTENSION PROJECT

UNITS:
CYCLONE PREHEATER

VENDOR:

PROVIDED BY:
SEC Sabz Engineering Company
شرکت مهندسی سبز

SEC.DOC.NO: SEC-PJ095-DWG-ST-019