DRAFT 10/25/06 **English Units**

	BUILDING	DESCRIPTION	ILC SHAFT	BUILDING TYPE	BUILDING AREA								BUILDING COMPONENTS				UTILITIES						
					LEVELS	HT	L	W	GSF / LEV	TOT GSF	QTY	TOT GSF	REST ROOMS	CRANE	OCCUPANCY	COMMENTS	ELEC	COOLING WATER	COMP AIR	NOISE	VENT		
7	CONTROL ROOM	CONTROL DETECTOR & MACHINE BUILDING	SHAFT 1.0 AND 1.1	LABORATORY	1	25	150	75	11,250	11,250	1	11,250	Y	N	65		250A	700KW	N				
8	DETECTOR ASSEMBLY	DETECTOR ASSEMBLY BUILDING	SHAFTS 1.0 AND 1.1	INDUSTRIAL	1	75	300	75	22,500	22,500	2	45,000	Y	80T	30	HIGH BAY WITH MEZZANINE	2000A	?	?				
10	M - D ACCESS	MACHINE & DETECTOR ACCESS BUILDING	SHAFTS 1.0 AND 1.1	INDUSTRIAL	1	60	300	75	22,500	22,500	1	22,500	Y	280T	30	HIGH BAY WITH MEZZANINE	1000A	?	?				
11	SITE ACCESS	SITE ACCESS BUILDING	SHAFTS 4,5,6,7,10,11	INDUSTRIAL	1	15	25	30	750	750	19	14,250	Y	N	3		50A	?	?				
13	WORKSHOP	WORKSHOP BUILDING MACHINE & DETECTOR	SHAFTS 4,5,6,7,10,11	INDUSTRIAL	1	30	150	75	11,250	11,250	6	67,500	Y	40T	20		1000A	?	?				
14	ELECTRICAL	ELECTRICAL BUILDING	SHAFT 1.0 AND 1.1	INDUSTRIAL	1	20	50	30	1,500	1,500	1	1,500	N	N	0		1000A	?	?				
15	ELECTRICAL	ELECTRICAL BUILDING	SHAFTS 2,3,4,5,6,7,10,11	INDUSTRIAL	1	20	50	30	1,500	1,500	8	12,000	N	N	0		1000A	?	?				
17	COOLING TOWER	COOLING TOWERS & PUMP STATIONS	SHAFTS 1.0 AND 1.1	UTILITY	1	50	100	75	7,500	7,500	2	15,000	Y	N	5		200A	?	?				
18	COOLING TOWER	COOLING TOWERS & PUMP STATIONS	SHAFTS 2,3,4,5,6,7,10,11,12,13,14,15, BDS,BDS	UTILITY	1	50	100	75	7,500	7,500	10	75,000	Y	N	5		200A	?	?				
19	CV BUILDING	COOLING VENTILATION BUILDING	SHAFTS 1.0 AND 1.1	UTILITY	1	40	75	75	5,625	5,625	2	11,250	N	N	0		500A	?	?				
20	CV BUILDING	COOLING VENTILATION BUILDING	SHAFTS 2,3,4,5,6,7,10,11,12,13,14,15, BDS,BDS	UTILITY	1	40	75	75	5,625	5,625	10	56,250	N	N	0		500A	?	?				
21	SHAFT ACCESS	SHAFT ACCESS BUILDING	SHAFTS 2,3,4,5,6,7,10,11, BDS,BDS	INDUSTRIAL	1	40	125	75	9,375	9,375	9	84,375	Y	N	10		500A	?	?				
22	SHAFT ACCESS	SHAFT ACCESS BUILDING	SHAFTS 12,13,14 and 15	INDUSTRIAL	1	40	50	50	2,500	2,500	4	10,000	Y	N	15		200A	?	?				
24	SHAFT OFFICES /TECH SPACE	OFFICE BUILDING	SHAFTS 4,5,6,7,10,11	OFFICE	1	16	50	25	1,250	1,250	6	7,500	Y	N	15	25% AESTHETIC MULTIPLIER	50A	?	?				
25	CRYO BUILDING	WARM COMPRESSOR BUILDING	SHAFTS 2,3,4,5,6,7	INDUSTRIAL	1	40	90	50	4,500	4,500	10	45,000	Y	20T	10	HIGH BAY WITH MEZZANINE	6MW	600 m3/h	50 Nm3/h	108dBA	400kW		
26	CRYO BUILDING	WARM COMPRESSOR BUILDING	SHAFTS 10,11,12,13,14,15	INDUSTRIAL	1	40	50	50	2,500	2,500	2	5,000	Y	20T	10	HIGH BAY WITH MEZZANINE	3.3MW	325 m3/h	40 Nm3/h	108dBA	217kW		
27	CRYO BUILDING	SURFACE COLD BOX BUILDING	SHAFTS 2,3,4,5,6,7	INDUSTRIAL	1	40	125	50	6,250	6,250	10	62,500	Y	5T	10	HIGH BAY WITH MEZZANINE	100MW	30 m3/h	100 Nm3/h				
28	CRYO BUILDING	SURFACE COLD BOX BUILDING	SHAFTS 10,11,12,13,14,15	INDUSTRIAL	1	40	100	50	5,000	5,000	2	10,000	Y	5T	10	HIGH BAY WITH MEZZANINE	50MW	20 m3/h	60 Nm3/h				
29	e- Sourse Lazer Bldg?	SURFACE BUILDING	Above e- Sourse	INDUSTRIAL 0	1	18	18	18	324	324	0 1	324	N	N	2		100A						
30	Undulator Hot Storage Bldg	SURFACE BUILDING	Above Undulator Cavern	INDUSTRIAL 0	1	50	130	70	9100	9100	0 1	9,100	Y	20T	10		500A						
31	KAS LAZER BLDG	SURFACE BUILDING	Above KAS	INDUSTRIAL 0	1	18	18	18	324	324	0 1	324	N	N	2		100A						
32	BDS LAZER	SURFACE BUILDING	ABOVE BDS	INDUSTRIAL	1	18	50	20	1000	1000	6	6,000	N	N	5		100A						
	TOTALS										114	571,623											

Fermi National Accelerator Laboratory
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Hanson Project No. 06S3020

BASIS for VALENCIA

HANSON

Updated By Tomski DRAFT 10/25/2006

ILC SURFACE BUILDINGS
Opinion of Probable Construction Cost
PRELIMINARY

SHEET EST 1.2