

LCLSInjectorDeviceNames

NOTICE! The information below is out of date. Please see the [LCLS database](#) for current information.

Injection Area Device Names

- [LCLS Database \(Andrea's db\)](#)
- [Linac Beamline Design Optics Files](#)
- [Optics File Comparison](#)
- [SLC Database Files](#)
- [Network Nodes by Location](#)
- [Magnet Database Channel Attributes](#)
- [Magnet Controls Application Programmers Interface Guide \(API\)](#)

These names are subject to change.

MAD Deck Name	Z-Position	Description	EPICS Name	SLC Name	Comment
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Laser					
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-	-	Drive Laser	TBD	ARRAY:IJ20:1	
-	-	Virtual Cathode	TBD	ARRAY:IK20:1	
-	-	Laser	LASR:IN20:1	ARRAY:IR20:2,4	
-	-	RF Ref Distribution	LLRF:IN20:1:REF	ARRAY:IR20:2,4	

Injector Start					
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-	-	Gun RF	GUN:IN20:1:RF	ARRAY:IR20:2,4	
-	-	Gun Klys and Modulator	KLYS:LI20:61	KLYS:LI20:61, ARRAY:IR20:1,3	
SOL1BK	2017.911482	-	SOLN:IN20:111	SOLN:IM20:111	
CATHODE	2017.911482	-	CATH:IN20:111	-	
-	-	-	VGCP:IN20:111	-	
-	-	-	VGHF:IN20:111	-	
-	-	-	VPIO:IN20:111	-	
-	-	-	VPIO:IN20:113	-	
-	-	-	VGPR:IN20:113	-	
-	-	-	VGCC:IN20:113	-	
SOL1	2018.072045	-	SOLN:IN20:121	SOLN:IM20:121	
CQ01	2018.072044	-	QUAD:IN20:121	QUAD:IM20:121	
XC00	2018.072044	-	XCOR:IN20:121	XCOR:IM20:121	
YC00	2018.072044	-	YCOR:IN20:122	YCOR:IM20:122	
SQ01	2018.072044	-	QUAD:IN20:122	QUAD:IM20:122	
VV01	2018.218271	-	VVPG:IN20:155	-	
AM01	2018.399058	-	MIRR:IN20:191	-	
YAG01	2018.414131	-	YAGS:IN20:211	PROF:IA20:211	
FC01	2018.423117	-	FARC:IN20:212	ARRAY:ID20:1	
IM01	2018.490697	-	TORO:IN20:215	TORO:ID20:215	
-	-	-	VGPR:IN20:221	-	
-	-	-	VGCC:IN20:221	-	
BPM2	2018.597571	-	BPMS:IN20:221	BPMS:IA20:221	
-	-	-	PLIC:IN20:221	-	
XC01	2018.597571	-	XCOR:IN20:221	XCOR:IM20:221	
YC01	2018.597571	-	YCOR:IN20:222	YCOR:IM20:222	

BXG	2018.82447 2	-	BEND:IN20:231	BEND:IM20:231	
BXG	2018.82447 2	Trim Coil	BTRM:IN20:231	BTRM:IM20:231	
-	-	-	VPIO:IN20:235	-	
BPM3	2018.90811 2	-	BPMS:IN20:235	BPMS:IA20:235	
CR01	2019.02474 3	-	CRAD:IN20:237	-	
YAG02	2019.04880 1	-	YAGS:IN20:241	PROF:IA20:241	
L0A__	2020.37436 3	L0A RF	ACCL:IN20:300	ARRY:IR20:2,4	
-	2020.37436 3	L0A Klys and Modulator	KLYS:LI20:71	KLYS:LI20:71, ARRY:IR20:1,3	
-	-	-	VPIO:IN20:301	-	
-	-	-	VPIO:IN20:303	-	
SOL2	2019.31550 9	-	SOLN:IN20:311	SOLN:IM20:311	
XC02	2019.84985 8	-	XCOR:IN20:311	XCOR:IM20:311	
YC02	2019.84985 8	-	YCOR:IN20:312	YCOR:IM20:312	
XC03	2021.3179	-	XCOR:IN20:341	XCOR:IM20:341	
YC03	2021.3179	-	YCOR:IN20:342	YCOR:IM20:342	
YAG03	2021.69821 2	-	YAGS:IN20:351	PROF:IA20:351	
QA01	2021.86479 2	-	QUAD:IN20:361	QUAD:IM20:361	
PH01	2022.00377 9	PH01 RF	PCAV:IN20:365	ARRY:IR20:2,4	
QA02	2022.15608 2	-	QUAD:IN20:371	QUAD:IM20:371	
BPM5	2022.15608 2	-	BPMS:IN20:371	BPMS:IA20:371	
-	-	-	VPIO:IN20:375	-	
-	-	-	VPIO:IN20:377	-	
L0B__	2023.52334 6	L0B RF	ACCL:IN20:400	ARRY:IR20:2,4	
-	2023.52334 6	L0B Klys and Modulator	KLYS:LI20:81	KLYS:LI20:81, ARRY:IR20:1,3	
XC04	2022.39803 9	-	XCOR:IN20:381	XCOR:IM20:381	
YC04	2022.39803 9	-	YCOR:IN20:382	YCOR:IM20:382	
XC05	2024.61819 4	-	XCOR:IN20:411	XCOR:IM20:411	
YC05	2024.61819 4	-	YCOR:IN20:412	YCOR:IM20:412	
QE01	2024.8694	-	QUAD:IN20:425	QUAD:IM20:425	
BPM6	2024.8694	-	BPMS:IN20:425	BPMS:IA20:425	
IM02	2024.97829 9	-	TORO:IN20:431	TORO:ID20:431	
VV02	2025.0786	-	VVPG:IN20:435	-	
QE02	2025.1983	-	QUAD:IN20:441	QUAD:IM20:441	
BXH1	2025.42591 2	-	BEND:IN20:451	BEND:IM20:451	BXH1-4
BXH1	2025.42591 2	Trim Coil	BTRM:IN20:451	BTRM:IM20:451	
BXH2	2025.64298 7	-	BEND:IN20:461	BEND:IM20:461	BXH1-4
OTRH1	-	-	OTRS:IN20:465	PROF:IA20:465	
YAG04	2026.29543	-	YAGS:IN20:465	PROF:IA20:465	
-	-	-	VPIO:IN20:465	-	
HTRUND	2026.02389 3	-	HTR:IN20:467	-	
-	-	-	VGPR:IN20:469	-	
-	-	-	VGCC:IN20:469	-	
OTRH2	-	-	OTRS:IN20:471	PROF:IA20:471	
BXH3	2026.40479 9	-	BEND:IN20:475	BEND:IM20:475	BXH1-4
BXH3	2026.40479 9	Trim Coil	BTRM:IN20:475	BTRM:IM20:475	
BXH4	2026.62187 4	-	BEND:IN20:481	BEND:IM20:481	BXH1-4
BXH4	2026.62187 4	Trim Coil	BTRM:IN20:481	BTRM:IM20:481	
TCAV0	2027.03978 1	TCAV0 RF	TCAV:IN20:490	ARRY:IR20:2,4	

-	2027.03978 1	TCAV0 Klys and Modulator	KLYS:LI20:51	KLYS:LI20:51, ARRY:IR20: 1,3	
XC06	2027.03978 1	-	XCOR:IN20:491	XCOR:IM20:491	
YC06	2027.03978 1	-	YCOR:IN20:492	YCOR:IM20:492	
QE03	2027.38797 9	-	QUAD:IN20:511	QUAD:IM20:511	
BPM8	2027.38797 9	-	BPMS:IN20:511	BPMS:IA20:511	
XC07	2027.61816	-	XCOR:IN20:521	XCOR:IM20:521	
YC07	2027.61816	-	YCOR:IN20:522	YCOR:IM20:522	
QE04	2027.71564	-	QUAD:IN20:525	QUAD:IM20:525	
BPM9	2027.71564	-	BPMS:IN20:525	BPMS:IB20:525	
WS01	2027.88173 7	-	WIRE:IN20:BL531	WIRE:IB20:531	
OTR1	2028.00622 2	-	OTRS:IN20:541	PROF:IB20:541	
VV03	2028.09179 9	-	VVPG:IN20:545	-	
-	-	-	PLIC:IN20:551	-	
RST1	2029.24638 5	-	STPR:IN20:551	-	
WS02	2029.44937 3	-	WIRE:IN20:BL561	WIRE:IB20:561	
OTR2	2029.57385 8	-	OTRS:IN20:571	PROF:IB20:571	
BPM10	2029.72776 3	-	BPMS:IN20:581	BPMS:IB20:581	
-	-	-	VGPR:IN20:605	-	
-	-	-	VGCC:IN20:605	-	
-	-	-	VPIO:IN20:605	-	
WS03	2031.01725 7	-	WIRE:IN20:BL611	WIRE:IB20:611	
OTR3	2031.14174 2	-	OTRS:IN20:621	PROF:IB20:621	
QM01	2031.30925 9	-	QUAD:IN20: BL631	QUAD:IM20:631	
BPM11	2031.30925 9	-	BPMS:IN20:631	BPMS:IB20:631	
XC08	2031.49919 8	-	XCOR:IN20:641	XCOR:IM20:641	
YC08	2031.49919 8	-	YCOR:IN20:642	YCOR:IM20:642	
VV04	2031.62479 9	-	VVPG:IN20:635	-	
-	-	LION1A	LION:IN20:BL650	-	
-	-	LION1B	LION:IN20:BL651	-	
QM02	2031.76456 3	-	QUAD:IN20:651	QUAD:IM20:651	
BPM12	2031.76456 2	-	BPMS:IN20:651	BPMS:IB20:651	
BX01	2032.08123 9	-	BEND:IN20:661	BEND:IM20:661	BX01- 02
BX01	2032.08123 9	Trim Coil	BTRM:IN20:661	BTRM:IM20:661	
-	-	-	PICS:IN20:BL665	-	
-	-	-	VPIO:IN20:705	-	
OTR4	2032.55528 1	-	OTRS:IN20:711	PROF:IB20:711	
XC09	2032.70883	-	XCOR:IN20:721	XCOR:IM20:721	
YC09	2032.70883	-	YCOR:IN20:722	YCOR:IM20:722	
QB	2032.91779	-	QUAD:IN20:731	QUAD:IM20:731	
BPM13	2032.91778 9	-	BPMS:IN20:731	BPMS:IB20:731	
WS04	2033.24396	-	WIRE:IN20:BL741	WIRE:IB20:741	
BX02	2033.76132 4	-	BEND:IN20:751	BEND:IM20:751	BX01- 02
-	-	-	PICS:IN20:BL755	-	
XC10	2034.05363 3	-	XCOR:IN20:761	XCOR:IM20:761	
YC10	2034.05363 3	-	YCOR:IN20:762	YCOR:IM20:762	
QM03	2034.27831 6	-	QUAD:IN20:771	QUAD:IM20:771	
BPM14	2034.27831 6	-	BPMS:IN20:771	BPMS:IB20:771	
-	-	-	VGPR:IN20:775	-	

-	-	-	VGCC:IN20:775	-	
QM04	2034.68348 3	-	QUAD:IN20:781	QUAD:IM20:781	
BPM15	2034.68348 3	-	BPMS:IN20:781	BPMS:IB20:781	
IM03	2034.87768 3	-	TORO:IN20:791	TORO:ID20:791	
-	-	-	VGPR:IN20:935	-	
-	-	-	VGCC:IN20:935	-	
-	-	-	VPIO:IN20:965	-	

Gun Spectrometer Beam Line

BXG	2018.82447 2	-	BEND:IN20:231	BEND:IM20: 231	
BXG	2018.82447 2	Trim Coil	BTRM:IN20:231	BTRM:IM20: 231	
-	-	-	VPIO:IN20: GS811	-	
QG02	2018.68269 1	-	QUAD:IN20:811	QUAD:IM20: 811	
XCG1	2018.68269 1	-	XCOR:IN20:811	XCOR:IM20: 811	
YCG1	2018.68269 1	-	YCOR:IN20:812	YCOR:IM20: 812	
BPMG1	2018.62518 1	-	BPMS:IN20:821	BPMS:IA20: 821	
QG03	2018.56769 1	-	QUAD:IN20:831	QUAD:IM20: 831	
XCG2	2018.56769 1	-	XCOR:IN20:831	XCOR:IM20: 831	
YCG2	2018.56769 1	-	YCOR:IN20:832	YCOR:IM20: 832	
YAGG1	2018.48510 6	-	YAGS:IN20:841	PROF:IA20:841	
CRG1	2018.48146 1	-	CRAD:IN20:842	-	
FCG1	2018.47147 1	-	FARC:IN20:898	ARRY:ID20:1	
GSDM P	2018.44647 1	-	DUMP:IN20:899	-	

Injection Spectrometer Beam Line

BX01	2032.08123 9	-	BEND:IN20:661	BEND:IM20: 661	BX01-02
BX01	2032.08123 9	Trim Coil	BTRM:IN20:661	BTRM:IM20: 661	
XCS1	2032.64846 8	-	XCOR:IN20:911	XCOR:IM20: 911	
YCS1	2032.64846 8	-	YCOR:IN20:912	YCOR:IM20: 912	
VVS1	2033.01619 3	-	VVPG:IN20:915	-	
YAGS1	2033.14179	-	YAGS:IN20:921	PROF:IB20:921	
BPMS 1	2033.27579 6	-	BPMS:IN20:925	BPMS:IB20: 925	
BXS	2033.72893 9	-	BEND:IN20:931	BEND:IM20: 931	
-	-	-	PICS:IN20: IS933	-	
QS01	2034.52337 4	-	QUAD:IN20:941	QUAD:IM20: 941	
BPMS 2	2034.52337 4	-	BPMS:IN20:945	BPMS:IB20: 945	
XCS2	2034.777	-	XCOR:IN20:951	XCOR:IM20: 951	
YCS2	2034.777	-	YCOR:IN20:952	YCOR:IM20: 952	
QS02	2035.03137 4	-	QUAD:IN20:961	QUAD:IM20: 961	
IMS1	2035.37264 9	-	TORO:IN20:971	TORO:ID20: 971	
BPMS 3	2035.63024 4	-	BPMS:IN20:981	BPMS:IB20: 981	
YAGS2	2035.85757 4	-	YAGS:IN20:995	PROF:IB20:995	
OTRS1	2036.23776 1	-	OTRS:IN20:997	PROF:IB20:997	
SDMP	2036.77319 3	-	DUMP:IN20:999	-	
	-	-	LGPS:IN20:1	LGPS:IM20:1	Sector 20 MCOR-1 Bulk PS
	-	-	LGPS:IN20:2	LGPS:IM20:2	Sector 20 MCOR-2 Bulk PS

Sector 21 Start

L1S___	2036.46973 1	L1S RF	ACCL:LI21:1	ARRY:IR20:2,4	
K21_1B	2036.46973 1	L1S Klys and Modulator	KLYS:LI21:11	KLYS:LI21:11, ARRY:IR20: 1,3	
XC11	2035.48856 3	-	XCOR:LI21:101	XCOR:LM21:101	
YC11	2035.48856 3	-	YCOR:LI21:102	YCOR:LM21:102	
QA11	2037.99178 1	-	QUAD:LI21:131	QUAD:LM21:131	
BPMA11	2037.99178 1	-	BPMS:LI21:131	BPMS:LA21:131	
K21_1C	2039.51383 1	-	KLYS:LI21:11	KLYS:LI21:11	
XCA11	2038.53267 6	-	XCOR:LI21:135	XCOR:LM21:135	
YCA11	2038.53267 6	-	YCOR:LI21:136	YCOR:LM21:136	
QA12	2041.03588 1	-	QUAD:LI21:161	QUAD:LM21:161	
BPMA12	2041.03588 1	-	BPMS:LI21:161	BPMS:LA21:161	
-	-	LION2A	LION:LI21:BL162	-	
-	-	LION2B	LION:LI21:BL163	-	
K21_1D	2042.64538 1	-	KLYS:LI21:11	KLYS:LI21:11	
XCA12	2041.49266 5	-	XCOR:LI21:165	XCOR:LM21:165	
YCA12	2041.49266 5	-	YCOR:LI21:166	YCOR:LM21:166	
YC21203	2043.49990 4	-	-	YCOR:LI21:203	
XC21202	2043.78747 5	-	-	XCOR:LI21:202	
VVX1	2044.2608	-	VVMG:LI21:175	-	
L1X___	2044.7582	L1X RF	ACCL:LI21:180	ARRY:IR20:2,4	

K21_2?	2044.7582	L1X Klys and Modulator	KLYS:LI21:21	KLYS:LI21:21, ARRAY:IR20:1,3	
-	2044.7582	-	PICS:LI21:BL185	-	
XCM11	2044.7582	-	XCOR:LI21:191	XCOR:LM21:191	
YCM11	2044.7582	-	YCOR:LI21:192	YCOR:LM21:192	
VVX2	2045.283	-	VVMG:LI21:195	-	
Q21201	2045.4364	-	-	QUAD:LI21:201	
BPM21201	2045.4364	-	BPMS:LI21:201	BPMS:LA21:201	
IMBC1I	2045.5798	-	TORO:LI21:205	TORO:ID20:205	
QM11	2045.9063	-	QUAD:LI21:211	QUAD:LM21:211	
BX11	2046.189701	-	BEND:LI21:215	BEND:LM21:215	BX11-14
BX11	2046.189701	Trim Coil	BTRM:LI21:215	BTRM:LM21:215	
CQ11	2046.589878	-	QUAD:LI21:221	QUAD:LM21:221	
BX12	2048.8278	-	BEND:LI21:231	BEND:LM21:231	BX11-14
-	-	-	PICS:LI21:BL232	-	
BPMS11	2049.2185	-	BPMS:LI21:233	BPMS:LA21:233	
CE11	2049.3425	-	COLL:LI21:235	COLL:LA21:235	
OTR11	2049.4885	-	OTRS:LI21:237	PROF:LA21:237	
BX13	2049.8612	-	BEND:LI21:241	BEND:LM21:241	BX11-14
BX13	2049.8612	Trim Coil	BTRM:LI21:241	BTRM:LM21:241	
-	-	-	PICS:LI21:BL245	-	
CQ12	2052.099122	-	QUAD:LI21:251	QUAD:LM21:251	
BX14	2052.4993	-	BEND:LI21:261	BEND:LM21:261	BX11-14
BX14	2052.4993	Trim Coil	BTRM:LI21:261	BTRM:LM21:261	
BL11	2052.762625	-	BLN:LI21:265	ARRAY:LD21:265	
QM12	2052.97835	-	QUAD:LI21:271	QUAD:LM21:271	
XCM13	2053.28235	-	XCOR:LI21:275	XCOR:LM21:275	
YCM12	2053.28235	-	YCOR:LI21:276	YCOR:LM21:276	
IMBC1O	2053.438739	-	TORO:LI21:277	TORO:ID20:277	
QM13	2053.649128	-	QUAD:LI21:278	QUAD:LM21:278	
BPMM12	2053.649128	-	BPMS:LI21:278	BPMS:LA21:278	
BL12	2053.956	-	BLN:LI21:280	ARRAY:LD21:265	
WS11	2054.239674	-	WIRE:LI21:BL285	WIRE:LA21:285	
WS12	2055.89587	-	WIRE:LI21:BL293	WIRE:LA21:293	
OTR12	2056.190870	-	OTRS:LI21:291	PROF:LA21:291	
PH02	2056.7079	PH02 RF	PCAV:LI21:300	ARRAY:IR20:2,4	
XC21302	2056.937	-	-	XCOR:LI21:302	
YC21303	2057.2812	-	-	YCOR:LI21:303	
WS13	2057.552066	-	WIRE:LI21:BL301	WIRE:LA21:301	
Q21301	2057.855466	-	-	QUAD:LI21:301	
BPM21301	2057.855466	-	BPMS:LI21:301	BPMS:LA21:301	
TD11	2058.575583	-	DUMP:LI21:305	-	
QM14	2059.015	-	QUAD:LI21:315	QUAD:LM21:315	
BPMM14	2059.015	-	BPMS:LI21:315	BPMS:LA21:315	
XCM14	2059.2973	-	XCOR:LI21:325	XCOR:LM21:325	
YCM15	2059.6487	-	YCOR:LI21:325	YCOR:LM21:325	
QM15	2064.29905	-	QUAD:LI21:335	QUAD:LM21:335	
K21_3B	2061.25495	-	-	KLYS:LI21:31	
K21_3C	2067.34315	-	-	KLYS:LI21:31	
K21_3D	2068.9528	-	-	KLYS:LI21:31	
Q21401	2070.55525	-	-	QUAD:LI21:401	
BPM21401	2069.36	-	BPMS:LI21:401	BPMS:LB21:401	
K21_4A	2069.7307	-	-	KLYS:LI21:41	
XC21402	2073.59935	-	XCOR:LI21:402	XCOR:LM21:402	
YC21403	2076.64345	-	-	YCOR:LI21:403	
K21_4B	2079.68755	-	-	KLYS:LI21:41	

K21_4C	2081.2972	-	-	KLYS:LI21:41	
K21_4D	2081.2972	-	-	KLYS:LI21:41	
Q21501	2082.89965	-	-	QUAD:LI21:501	
BPM21501	2081.71	-	BPMS:LI21:501	BPMS:LB21:501	
K21_5A	2082.0878	-	-	KLYS:LI21:51	
XC21502	2085.94375	-	-	XCOR:LI21:502	
YC21503	2088.98785	-	YCOR:LI21:503	YCOR:LM21:503	
K21_5B	2092.03195	-	-	KLYS:LI21:51	
K21_5C	2093.6416	-	-	KLYS:LI21:51	
K21_5D	2093.6416	-	-	KLYS:LI21:51	
Q21601	2095.24405	-	-	QUAD:LI21:601	
BPM21601	2094.05	-	BPMS:LI21:601	BPMS:LB21:601	
K21_6A	2094.4385	-	-	KLYS:LI21:61	
XC21602	2098.28815	-	-	XCOR:LI21:602	
YC21603	2101.33225	-	-	YCOR:LI21:603	
K21_6B	2104.37635	-	-	KLYS:LI21:61	
K21_6C	2105.986	-	-	KLYS:LI21:61	
K21_6D	2105.986	-	-	KLYS:LI21:61	
Q21701	2107.58845	-	-	QUAD:LI21:701	
BPM21701	2106.4	-	BPMS:LI21:701	BPMS:LC21:701	
K21_7A	2106.65	-	-	KLYS:LI21:71	
XC21702	2110.63255	-	-	XCOR:LI21:702	
YC21703	2113.67665	-	-	YCOR:LI21:703	
K21_7B	2116.72075	-	-	KLYS:LI21:71	
K21_7C	2118.3304	-	-	KLYS:LI21:71	
K21_7D	2118.3304	-	-	KLYS:LI21:71	
Q21801	2119.93285	-	-	QUAD:LI21:801	
BPM21801	2118.74	-	BPMS:LI21:801	BPMS:LC21:801	
K21_8A	2118.99	-	-	KLYS:LI21:81	
XC21802	2122.97695	-	XCOR:LI21:802	XCOR:LM21:802	
YC21803	2126.02105	-	-	YCOR:LI21:803	
K21_8B	2129.06515	-	-	KLYS:LI21:81	
K21_8C	2129.93	-	-	KLYS:LI21:81	
K21_8D	2130.18	-	-	KLYS:LI21:81	
XC21900	2130.9939	-	-	XCOR:LI21:900	
YC21900	2130.9939	-	YCOR:LI21:900	YCOR:LM21:900	
Q21901	2135.12205	-	-	QUAD:LI21:901	
BPM21901	2138.16615	-	BPMS:LI21:901	BPMS:LC21:901	
			LGPS:LI21:2	LGPS:LM21:2	Sector 20 MCOR-3 Bulk PS

Sector 22 Start

YC2220 3	-	-	YCOR:LI22: 203	
XC2220 2	-	-	XCOR:LI22: 202	
Q22201	-	-	QUAD:LI22: 201	
XC2230 2	-	-	XCOR:LI22: 302	
YC2230 3	-	-	YCOR:LI22: 303	
BXKIK	-	KICK:LI25: 344		
Q22301	-	-	QUAD:LI22: 301	
Q22401	-	-	QUAD:LI22: 401	
XC2240 2	-	-	XCOR:LI22: 402	
YC2240 3	-	-	YCOR:LI22: 403	
Q22501	-	-	QUAD:LI22: 501	
XC2250 2	-	-	XCOR:LI22: 502	
YC2250 3	-	-	YCOR:LI22: 503	
Q22601	-	-	QUAD:LI22: 601	
XC2260 2	-	-	XCOR:LI22: 602	
YC2260 3	-	-	YCOR:LI22: 603	
Q22701	-	-	QUAD:LI22: 701	
XC2270 2	-	-	XCOR:LI22: 702	
YC2270 3	-	-	YCOR:LI22: 703	
Q22801	-	-	QUAD:LI22: 801	
XC2280 2	-	-	XCOR:LI22: 802	
YC2280 3	-	-	YCOR:LI22: 803	
XC2290 0	-	-	XCOR:LI22: 900	
YC2290 0	-	-	YCOR:LI22: 900	
Q22901	-	-	QUAD:LI22: 901	

Sector 23 Start

YC2320 3	-	-	YCOR:LI23: 203	
XC2320 2	-	-	XCOR:LI23: 202	
Q23201	-	-	QUAD:LI23: 201	
XC2330 2	-	-	XCOR:LI23: 302	
YC2330 3	-	-	YCOR:LI23: 303	
Q23301	-	-	QUAD:LI23: 301	
Q23401	-	-	QUAD:LI23: 401	
XC2340 2	-	-	XCOR:LI23: 402	
YC2340 3	-	-	YCOR:LI23: 403	
Q23501	-	-	QUAD:LI23: 501	
XC2350 2	-	-	XCOR:LI23: 502	
YC2350 3	-	-	YCOR:LI23: 503	
Q23601	-	-	QUAD:LI23: 601	
XC2360 2	-	-	XCOR:LI23: 602	
YC2360 3	-	-	YCOR:LI23: 603	
Q23701	-	-	QUAD:LI23: 701	
XC2370 2	-	-	XCOR:LI23: 702	
YC2370 3	-	-	YCOR:LI23: 703	
Q23801	-	-	QUAD:LI23: 801	
XC2380 2	-	-	XCOR:LI23: 802	
YC2380 3	-	-	YCOR:LI23: 803	
XC2390 0	-	-	XCOR:LI23: 900	
YC2390 0	-	-	YCOR:LI23: 900	
Q23901	-	-	QUAD:LI23: 901	

Sector 24 Start

YC24203	-	-	YC0R:LI24:203	
XC24202	-	-	XC0R:LI24:202	
Q24201	-	-	QUAD:LI24:201	
XC24302	-	-	XC0R:LI24:302	
YC24303	-	-	YC0R:LI24:303	
Q24301	-	-	QUAD:LI24:301	
Q24401	-	-	QUAD:LI24:401	
XC24402	-	-	XC0R:LI24:402	
YC24403	-	-	YC0R:LI24:403	
Q24501	-	-	QUAD:LI24:501	
XC24502	-	-	XC0R:LI24:502	
YC24503	-	-	YC0R:LI24:503	
Q24601	-	QUAD:LI24: 601	QUAD:LM24: 601	
XC24602	-	-	XC0R:LI24:602	
YC24603	-	-	YC0R:LI24:603	
Q24701A	-	QUAD:LI24: 701	QUAD:LM24: 701	
Q24701B	-	QUAD:LI24: 702	QUAD:LM24: 702	
XC24702	-	-	XC0R:LI24:702	
YC24703	-	-	YC0R:LI25:703	
QM21	-	QUAD:LI24: 713	QUAD:LM24: 713	
BX21	-	BEND:LI24: 720	BEND:LM24: 720	
BX21- Trim	Trim Coil	BTRM:LI24: 720	BEND:LM24: 720	
BX22	-	BEND:LI24: 790	BEND:LM24: 790	Master BX21- BX24
CQ21	-	QUAD:LI24: 740	QUAD:LM24: 740	
BX23	-	BEND:LI24: 810	BEND:LM24: 810	
BX23- Trim	Trim Coil	BTRM:LI24: 810	BEND:LM24: 810	
CQ22	-	QUAD:LI24: 860	QUAD:LM24: 860	
BX24	-	BEND:LI24: 880	BEND:LM24: 880	
BX24- Trim	Trim Coil	BTRM:LI24: 880	BEND:LM24: 880	
QM22	-	QUAD:LI24: 892	QUAD:LM24: 892	
XC24900	-	-	XC0R:LI24:900	
YC24900	-	-	YC0R:LI25:900	
Q24901A	-	QUAD:LI24: 901	QUAD:LM24: 901	
Q24901B	-	QUAD:LI24: 902	QUAD:LM24: 902	

Sector 25 Start

YC2520 3	-	-	YCOR:LI25: 203	
XC2520 2	-	-	XCOR:LI25: 202	
Q25201	-	-	QUAD:LI25: 201	
XC2530 2	-	-	XCOR:LI25: 302	
YC2530 3	-	-	YCOR:LI25: 303	
Q25301	-	-	QUAD:LI25: 301	
Q25401	-	-	QUAD:LI25: 401	
XC2540 2	-	-	XCOR:LI25: 402	
YC2540 3	-	-	YCOR:LI25: 403	
Q25501	-	-	QUAD:LI25: 501	
XC2550 2	-	-	XCOR:LI25: 502	
YC2550 3	-	-	YCOR:LI25: 503	
Q25601	-	-	QUAD:LI25: 601	
XC2560 2	-	-	XCOR:LI25: 602	
YC2560 3	-	-	YCOR:LI25: 603	
Q25701	-	-	QUAD:LI25: 701	
XC2570 2	-	-	XCOR:LI25: 702	
YC2570 3	-	-	YCOR:LI25: 703	
Q25801	-	-	QUAD:LI25: 801	
XC2580 2	-	-	XCOR:LI25: 802	
YC2580 3	-	-	YCOR:LI25: 803	
XC2590 0	-	-	XCOR:LI23: 900	
YC2590 0	-	-	YCOR:LI25: 900	
Q25901	-	-	QUAD:LI25: 901	

Sector 26 Start					
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YC2620 3	-	-	YCOR:LI26: 203	
XC2620 2	-	-	XCOR:LI26: 202	
Q26201	-	-	QUAD:LI26: 201	
XC2630 2	-	-	XCOR:LI26: 302	
YC2630 3	-	-	YCOR:LI26: 303	
Q26301	-	-	QUAD:LI26: 301	
Q26401	-	-	QUAD:LI26: 401	
XC2640 2	-	-	XCOR:LI26: 402	
YC2640 3	-	-	YCOR:LI26: 403	
Q26501	-	-	QUAD:LI26: 501	
XC2650 2	-	-	XCOR:LI26: 502	
YC2650 3	-	-	YCOR:LI26: 503	
Q26601	-	-	QUAD:LI26: 601	
XC2660 2	-	-	XCOR:LI26: 602	
YC2660 3	-	-	YCOR:LI26: 603	
Q26701	-	-	QUAD:LI26: 701	
XC2670 2	-	-	XCOR:LI26: 702	
YC2670 3	-	-	YCOR:LI26: 703	
Q26801	-	-	QUAD:LI26: 801	
XC2680 2	-	-	XCOR:LI26: 802	
YC2680 3	-	-	YCOR:LI26: 803	
XC2690 0	-	-	XCOR:LI26: 900	
YC2690 0	-	-	YCOR:LI26: 900	
Q26901	-	-	QUAD:LI26: 901	

Sector 27 Start				
YC27203	-	-	YC0R:LI27: 203	
XC27202	-	-	XC0R:LI27: 202	
Q27201	-	-	QUAD:LI27: 201	
XC27302	-	-	XC0R:LI27: 302	
YC27303	-	-	YC0R:LI27: 303	
Q27301	-	-	QUAD:LI27: 301	
Q27401	-	-	QUAD:LI27: 401	
XC27402	-	-	XC0R:LI27: 402	
YC27403	-	-	YC0R:LI27: 403	
Q27501	-	-	QUAD:LI27: 501	
XC27502	-	-	XC0R:LI27: 502	
YC27503	-	-	YC0R:LI27: 503	
Q27601	-	-	QUAD:LI27: 601	
XC27602	-	-	XC0R:LI27: 602	
YC27603	-	-	YC0R:LI27: 603	
Q27701	-	-	QUAD:LI27: 701	
XC27702	-	-	XC0R:LI27: 702	
YC27703	-	-	YC0R:LI27: 703	
Q27801	-	-	QUAD:LI27: 801	
XC27802	-	-	XC0R:LI27: 802	
YC27803	-	-	YC0R:LI27: 803	
XC27900	-	-	XC0R:LI27: 900	
YC27900	-	-	YC0R:LI27: 900	
Q27901	-	-	QUAD:LI27: 901	

Sector 28 Start				
YC28203	-	-	YCOR:LI28: 203	
XC28202	-	-	XCOR:LI28: 202	
Q28201	-	-	QUAD:LI28: 201	
XC28302	-	-	XCOR:LI28: 302	
YC28303	-	-	YCOR:LI28: 303	
Q28301	-	-	QUAD:LI28: 301	
Q28401	-	-	QUAD:LI28: 401	
XC28402	-	-	XCOR:LI28: 402	
YC28403	-	-	YCOR:LI28: 403	
Q28501	-	-	QUAD:LI28: 501	
XC28502	-	-	XCOR:LI28: 502	
YC28503	-	-	YCOR:LI28: 503	
Q28601	-	-	QUAD:LI28: 601	
XC28602	-	-	XCOR:LI28: 602	
YC28603	-	-	YCOR:LI28: 603	
Q28701	-	-	QUAD:LI28: 701	
XC28702	-	-	XCOR:LI28: 702	
YC28703	-	-	YCOR:LI28: 703	
Q28801	-	-	QUAD:LI28: 801	
XC28802	-	-	XCOR:LI28: 802	
YC28803	-	-	YCOR:LI28: 803	
XC28900	-	-	XCOR:LI28: 900	
YC28900	-	-	YCOR:LI28: 900	
Q28901	-	-	QUAD:LI28: 901	

Sector 29 Start				
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YC2920 3	-	-	YCOR:LI29: 203	
XC2920 2	-	-	XCOR:LI29: 202	
Q29201	-	-	QUAD:LI29: 201	
XC2930 2	-	-	XCOR:LI29: 302	
YC2930 3	-	-	YCOR:LI29: 303	
Q29301	-	-	QUAD:LI29: 301	
Q29401	-	-	QUAD:LI29: 401	
XC2940 2	-	-	XCOR:LI29: 402	
YC2940 3	-	-	YCOR:LI29: 403	
Q29501	-	-	QUAD:LI29: 501	
XC2950 2	-	-	XCOR:LI29: 502	
YC2950 3	-	-	YCOR:LI29: 503	
Q29601	-	-	QUAD:LI29: 601	
XC2960 2	-	-	XCOR:LI29: 602	
YC2960 3	-	-	YCOR:LI29: 603	
Q29701	-	-	QUAD:LI29: 701	
XC2970 2	-	-	XCOR:LI29: 702	
YC2970 3	-	-	YCOR:LI29: 703	
Q29801	-	-	QUAD:LI29: 801	
XC2980 2	-	-	XCOR:LI29: 802	
YC2980 3	-	-	YCOR:LI29: 803	
XC2990 0	-	-	XCOR:LI29: 900	
YC2990 0	-	-	YCOR:LI29: 900	
Q29901	-	-	QUAD:LI29: 901	

Sector 30 Start				
YC30203	-	-	YC0R:LI26: 203	
XC30202	-	-	XC0R:LI26: 202	
Q30201	-	-	QUAD:LI26: 201	
XC30302	-	-	XC0R:LI26: 302	
YC30303	-	-	YC0R:LI26: 303	
Q30301	-	-	QUAD:LI26: 301	
Q30401	-	-	QUAD:LI26: 401	
XC306402	-	-	XC0R:LI26: 402	
YC30403	-	-	YC0R:LI26: 403	
Q30501	-	-	QUAD:LI26: 501	
XC30502	-	-	XC0R:LI26: 502	
YC30503	-	-	YC0R:LI26: 503	
Q30601	-	-	QUAD:LI26: 601	
XC30602	-	-	XC0R:LI26: 602	
YC30603	-	-	YC0R:LI26: 603	
Q30701	-	-	QUAD:LI26: 701	
XC30702	-	-	XC0R:LI26: 702	
YC30703	-	-	YC0R:LI26: 703	
Q30801	-	-	QUAD:LI26: 801	
XC30802	-	-	XC0R:LI26: 802	
YC30803	-	-	YC0R:LI26: 803	
XC230900	-	-	XC0R:LI26: 900	
YC30900	-	-	YC0R:LI26: 900	

[Beam Switch Yard Start](#) ☐ ☐ ☐ ☐ ☐

[Linac to Undulator Start](#) ☐ ☐ ☐ ☐ ☐

[Q-Dump Start](#) ☐ ☐ ☐ ☐ ☐

[Undulator Start](#) ☐

MAD Deck Name	Undulator Section	Description	EPICS Name
XCU01	1		XCOR:UND1:180
YCU01	1		YC0R:UND1:180
QU01	1		QUAD:UND1:180
XCU02	2		XCOR:UND1:280
YCU02	2		YC0R:UND1:280
QU02	2		QUAD:UND1:280
XCU03	3		XCOR:UND1:380
YCU03	3		YC0R:UND1:380
QU03	3		QUAD:UND1:380
XCU04	4		XCOR:UND1:480
YCU04	4		YC0R:UND1:480
QU04	4		QUAD:UND1:480
XCU05	5		XCOR:UND1:580
YCU05	5		YC0R:UND1:580
QU05	5		QUAD:UND1:580

XCU06	6		XCOR:UND1:680
YCU06	6		YCOR:UND1:680
QU06	6		QUAD:UND1:680
XCU07	7		XCOR:UND1:780
YCU07	7		YCOR:UND1:780
QU07	7		QUAD:UND1:780
XCU08	8		YCOR:UND1:880
YCU08	8		YCOR:UND1:880
QU08	8		QUAD:UND1:880
XCU09	9		XCOR:UND1:980
YCU09	9		YCOR:UND1:980
QU09	9		QUAD:UND1:980
XCU10	10		XCOR:UND1: 1080
YCU10	10		YCOR:UND1: 1080
QU10	10		QUAD:UND1: 1080
QU10	11		QUAD:UND1: 1080
XCU11	11		XCOR:UND1: 1180
YCU11	11		YCOR:UND1: 1180
QU11	12		QUAD:UND1: 1180
XCU12	12		XCOR:UND1: 1280
YCU12	12		YCOR:UND1: 1280
QU12	13		QUAD:UND1: 1280
XCU13	13		XCOR:UND1: 1380
YCU13	13		YCOR:UND1: 1380
QU13	13		QUAD:UND1: 1380
XCU14	14		XCOR:UND1: 1480
YCU14	14		YCOR:UND1: 1480
QU14	14		QUAD:UND1: 1480
XCU15	15		XCOR:UND1: 1580
YCU15	15		YCOR:UND1: 1580
QU15	15		QUAD:UND1: 1580
XCU16	16		XCOR:UND1: 1680
YCU16	16		YCOR:UND1: 1680
QU16	16		QUAD:UND1: 1680
XCU17	17		XCOR:UND1: 1780
YCU17	17		YCOR:UND1: 1780
QU17	17		QUAD:UND1: 1780
XCU18	18		XCOR:UND1: 1880
YCU18	18		YCOR:UND1: 1880
QU18	18		QUAD:UND1: 1880

XCU19	19		XCOR:UND1: 1980
YCU19	19		YCOR:UND1: 1980
QU19	19		QUAD:UND1: 1980
XCU20	20		XCOR:UND1: 2080
YCU20	20		YCOR:UND1: 2080
QU20	20		QUAD:UND1: 2080
XCU21	21		XCOR:UND1: 2180
YCU21	21		YCOR:UND1: 2180
QU21	21		QUAD:UND1: 2180
XCU22	22		XCOR:UND1: 2280
YCU22	22		YCOR:UND1: 2280
QU22	22		QUAD:UND1: 2280
XCU23	23		XCOR:UND1: 2380
YCU23	23		YCOR:UND1: 2380
QU23	23		QUAD:UND1: 2380
XCU24	24		XCOR:UND1: 2480
YCU24	24		YCOR:UND1: 2480
QU24	24		QUAD:UND1: 2480
XCU25	25		XCOR:UND1: 2580
YCU25	25		YCOR:UND1: 2580
QU25	25		QUAD:UND1: 2580
XCU26	26		XCOR:UND1: 2680
YCU26	26		YCOR:UND1: 2680
QU26	26		QUAD:UND1: 2680
XCU27	27		XCOR:UND1: 2780
YCU27	27		YCOR:UND1: 2780
QU27	27		QUAD:UND1: 2780
XCU28	28		XCOR:UND1: 2880
YCU28	28		YCOR:UND1: 2880
QU28	28		QUAD:UND1: 2880
XCU29	29		XCOR:UND1: 2980
YCU29	29		YCOR:UND1: 2980
QU29	29		QUAD:UND1: 2980
XCU30	30		XCOR:UND1: 3080
YCU30	30		YCOR:UND1: 3080

QU30	30		QUAD:UND1: 3080
XCU31	31		XCOR:UND1: 3180
YCU31	31		YCOR:UND1: 3180
QU31	31		QUAD:UND1: 3180
XCU32	32		XCOR:UND1: 3280
YCU32	32		YCOR:UND1: 3280
QU32	32		QUAD:UND1: 3280
XCU33	33		XCOR:UND1: 3380
YCU33	33		YCOR:UND1: 3380
QU33	33		QUAD:UND1: 3380