CONDUCTORS ARE REMOVED, CONDUITS ARE AIR-GAPPED AND PANELS ARE AIR-GAPPED (TYPICAL)

FOR CONTINUATION
SEE DRAWING NO. 7R0714G

4–#4/0 &
1–#2 GRD
TO 343A–CB2
(BANK 343)

MH-19

3"C W/4–#4/0 WELDING CABLES

PANEL 343A2A
208Y/120V, 3ø, 4W
225A MAIN, 225A BUS

BLDG. 5
RM 122

CKT. NO. 8
90AT
3"C
3–#2
1–#

343A2A8A
208Y/120V
3ø, 4W
BLDG. 5
RM 121

CKT. NO. 25
100AT
1.5"C
4–#2

343A2A25A
208Y/120V
3ø, 4W
BLDG. 5
RM 112

CKT. NO. 21
70AT
1.25"C
4–#4
1–#6 GRD

343A2A25A21A
208Y/120V
3ø, 4W
BLDG. 5
RM 105

CKT. NO. 22
70AT
1.25"C
4–#4
1–#6 GRD

343A2A25A22A
208Y/120V
3ø, 4W
BLDG. 5
RM 112

CKT. NO. 26
100AT
1.5"C
2–#2
1–#2 NEUT

343A2A26A
208Y/120V
1ø, 3W
BLDG. 5
RM 122

PANEL 343A2B
208Y/120V, 3ø, 4W
CIRCUIT BREAKER ONLY
225AT

BLDG. 5
RM 122

2.5"C
4–#4/0

343A2B1A
208Y/120V
3ø, 4W
BLDG. 5
RM 112B

CKT. NO. 9
70AT
1.5"C
4–#4

343A2B1A9A
208Y/120V
3ø, 4W
BLDG. 5
RM 112

CKT. NO. 10
70AT
1.5"C
4–#4

343A2B1A10A
208Y/120V
3ø, 4W
BLDG. 5
RM 112

CKT. NO. 15
70AT
1.5"C
4–#4

343A2B1A15A
208Y/120V
3ø, 4W
BLDG. 5
RM 112

1.5"C
4–#4

343A2B1A15B
208Y/120V
3ø, 4W
BLDG. 5
RM 112

CKT. NO. 27
70AT
1.25"C
4–#4

343A2B1A27A
208Y/120V
3ø, 4W
BLDG. 5
RM 105 EAST

343A2B1A27B
208Y/120V
3ø, 4W
BLDG. 5
RM 105 NORTH

343A2B1A27C
208Y/120V
3ø, 4W
BLDG. 5
RM 105 SOUTH

PANEL 343A2C (LEFT)
208Y/120V, 3ø, 4W
225A MAIN, 225A BUS
BLDG. 5, RM. 100

PANEL 343A2C (LEFT) FORMERLY 343A2C1A

CKT. NO. 22
70AT
1.25"C
4–#4

343A2C22A
208Y/120V
3ø, 4W
BLDG. 5
RM 200 MEZZ

CKT. NO. 28
100AT
1.5"C
4–#1

343A2C28A
208Y/120V
3ø, 4W
BLDG. 5
RM 150

CKT. NO. 16
50AT
.75"C
4–#6

343A2C28A16A
208Y/120V
3ø, 4W
BLDG. 5
RM 150

343A2C28A16B
208Y/120V
3ø, 4W
BLDG. 5
RM 150

CKT. NO. 4
100AT
1.25"C
4–#2

343A2C1A4A
208Y/120V
3ø, 4W
BLDG. 5
RM 100 EAST

CKT. NO. 15
70AT
1.25"C
4–#4

343A2C1A15A
208Y/120V
3ø, 4W
BLDG. 5
RM 100 NORTH

343A2C1A15B
208Y/120V
3ø, 4W
BLDG. 5
RM 100 NORTH

CKT. NO. 16
70AT
1.25"C
4–#4

343A2C1A16A
208Y/120V
3ø, 4W
BLDG. 5
RM 100 SOUTH

343A2C1A16B
208Y/120V
3ø, 4W
BLDG. 5
RM 100 SOUTH
20A DISC SW

CKT. NO. 22
70AT
1"C
4–#4

343A2C1A22A
208Y/120V
3ø, 4W
BLDG. 5
RM 100 NORTH

CKT. NO. 34
100AT
1.25"C
4–#2
1–#6 GRD

343A2C1A34A
208Y/120V
3ø, 4W
BLDG. 5
RM 102

CONDITON AFTER DEACTIVATION

Contact LBNL (Ted Mankowski) if drawing showning "Condition Before Deactivation" is needed.

ASBUILT
E
RECORD
3/14/2014

REVISION NUMBER	DRAWN BY	CHECKED BY	APPR'D BY	DATE	REMARKS
E	PW	JH	LL	3/14/14	UPDATE
D					REDRAWN ON AUTOCAD AS-BUILT
C	LSR		RMG	6/11/90	UPDATE
B	LSR	RB	RMG	4.16.90	UPDATE
A	LSR	RG	BHS	10/9/86	AS BUILT

PROFESSIONAL SEAL (IF REVISION, APPLIES ONLY TO REVISED WORK)

ISSUE (PROGRESS, ESTIMATE, BID, CONSTRUCTION, CONFORMED, REVISION, AS-BUILT)

05
BANK 306 CONTINUED
ONE LINE DIAGRAM

UNIVERSITY OF CALIFORNIA
LAWRENCE BERKELEY NATIONAL LABORATORY
FACILITIES DEPARTMENT

BANK 306

DRAWN BY LSR	DATE 5/21/1986
CHECKED BY RG	5/22/1986
APPROVED BY BS	5/22/1986
CAD FILE PATH 00021927	
SCALE Full	
DRAWING NO. 7R0094E	SHEET 1 OF 1
PROJECT NO. 000000	

SS306 BLDGS. 4, 5, 7, 14, 40, 41 & 48 POWER

3-250MCM & 1 #4/0G
TO SW-A3, BKR. NO. 52-A312
SEE DWG. NO. 7R0644

BANK NO. 306
1000KVA, OA/FA
12.47KV-480Y/277V
Z=5.75%

AØ
30A
3 POLE SW
273A
SUBSTATION CONTL PWR
G
6A
3 POLE SW

2000AT
2000AF
2000AS
PPU
IQ DATA PLUS
AEM
TWISTED PAIR TO INCOM 3000 COMPUTER

3

1 2 3 4 5 6 7 8

400AT 1600AF 400AS PPU
400AT 1600AF 400AS PPU
400AT 1600AF 400AS PPU
300AT 1600AF 300AS PPU
SPACE
SPACE
SPACE
800AT 1600AF 600AS PPU

APFC
300 KVAR

6-350KCMIL & 2-#1 GRD

BLDG. 14 POWER METER (1)
BLDG. 5 POWER METER (1)
BLDG. 4 POWER METER (1)

2A 2A
SLO 3

3-500MCM & 1 #1/0G

306A1A
OUTSIDE BLDG. 4

450A
BANK NO. 343
300KVA, AA
480-208Y/120V
Z=6.3%

4"C
3-500KCMIL
1-#1/0 GRD

4"C
4-#4/0
1-#2 GRD

4 #4/0 & 1 #2 GRD
TO PANEL 306A4A
SEE DWG. NO. 4B48E006

CB 343A2 in OPEN POSITION AND ADMINISTRATIVELY LOCKED.

SPLICE
CABLE SIZE: 2/0
SPLICE
CABLE SIZE: 1/0

343A1 300A 400:5 3
343A2 225A 300:5 3
343A3 150A 200:5 3

CONDUCTORS ARE PULLED and PANELS 343A2A, 343A2B, & 343A2C ARE AIR-GAPPED.

F

3"C
3-500KCMIL
1-#4/0

2"C, 4 #1/0 & 1 #6G

4 #4/0 & 1 #2G, TO PANELS
343A2A, 343A2B & 343A2C
SERVING BLDG. 5
SEE DWG. NO. 7R0094

306A2A
BLDG. 7
1ST FLR
350A
BANK NO. 344
225KVA, AA
480-208Y/120V
Z=5.6%
344A1
600A

8-350MCM & 2 #2G
TO PANEL 344A1A
SERVING BLDG. 7
SEE DWG. NO. 7R0104

1.5"C
306A3A
480V
3ø, 4W
150A MAIN
BLDG. 41
RM 101

2"C
6-#1/0
1-#6 GRD

BANK NO. 211
112.5KVA
480-208Y/120V
Z=4.3%
ELECTROSTATIC SHIELD

3"C
4-350KCMIL
1-#2/0 GRD
3"C
4-#4/0
1-#4 GRD

211A
208Y/120V
3ø, 4W
400A MAIN
BLDG. 41

211B
208Y/120V
3ø, 4W
400A MAIN
BLDG. 40

PANEL 343A1A
208Y/120V, 3ø, 4W
400A MAIN, 400A BUS
BLDG. 4, RM. 100

CKT. NO. 1 225AT	CKT. NO. 5 225AT	CKT. NO. 10 100AT	CKT. NO. 11 100AT	CKT. NO. 12 70AT	CKT. NO. 13 100AT
3"C 3-#4/0 1-#2/0	3"C 3-#4/0 1-#2/0	3"C 3-#1 1-#4	2"C 3-#1 1-#4	A&, C& 3"C 3-#4	2"C 3-#1 1-#4
343A1A1A 208Y/120V 3PH, 4W RM 100	343A1A5A 208Y/120V 3PH, 4W RM 200	343A1A10A 208Y/120V 3PH, 4W ATTIC	343A1A11A 208Y/120V 3PH, 4W RM 200	DOE TRAILER	343A1A13A 208Y/120V 3PH, 4W RM 110B

PANEL 343A3A
208Y/120V, 3ø, 4W
225A MAIN, 225A BUS
BLDG. 14, RM. 134

CKT. NO. 21 90AT	CKT. NO. 27 100AT	CKT. NO. 34 100AT
1.25"C 4-#1	2"C 4-#2/0	1.5"C 4-#1
343A3A21A 208Y/120V 3ø, 4W RM 118	343A3A27A 208Y/120V 3ø, 4W 100A MAIN RM 116	343A3A34A 208Y/120V 3ø, 4W RM 134

CKT. NO. 19 40AT	CKT. NO. 25 70AT	CKT. NO. 26 100AT	CKT. NO. 22 70AT
1"C 4-#8	1.5"C 3-#4 NO. C&	1.5"C 4-#2 1-#6G	1.25"C 4-#4
343A3A27A19A 208Y/120V 3ø, 4W RM 116	343A3A27A25A 208Y/120V 1ø, 3W RM 116	343A3A27A26A 208Y/120V 3ø, 4W RM 120	343A3A34A22A 208Y/120V 3ø, 4W RM 137

CONDITION AFTER DEACTIVATION

Contact LBNL (Ted Mankowski) if drawing showning "Condition Before Deactivation" is needed.

LEGEND

AEM ASSEMBLIES ELECTRONIC MONITOR
PPU DIGITRIP RMS 7000

DISTRIBUTION
2-FACILITIES M&O ELECTRIC SHOP BLDG. 76 - FILE I
1-FACILITIES & ELEC. SECTION STICK FILE
1-FACILITIES FLAT FILE
1-ALS EC BLDG. 46
1-ALS EM BLDG. 80
1-ALS ELECT BLDG. 80A

REVISION NUMBER	DRAWN BY	CHECKED BY	APPR'D BY	DATE	REMARKS
F	LDD	LDD	MCG	07/08/08	AS-BUILT PER FIELD VERIFICATION
F	MRC	LDD	MCG	9-24-04	AS-BUILT-PROJ. FE0002 (FY04)
E	MRC	LDD	MCG	6-18-04	ADD METERING-PROJ. FE0002
D	DEK	MG	MG	6-12-96	AS-BUILT & REVISED BKR. SIZES
C					REDRAWN ON AUTOCAD AS-BUILT
B	LSR	RG	RMG	11-26-90	ADDED NOTE TO CIRCUIT 306A-4
A	LSR	RG	RMG	8-6-90	UPDATE

BUILDINGS 4, 5, 7, 14, 40, 41 & 48
BANK NO. 306
ONE LINE DIAGRAM

UNIVERSITY OF CALIFORNIA LAWRENCE BERKELEY LABORATORY
FACILITIES DEPARTMENT

BANK 306

DRAWN BY	L REHBOCK	DATE 4-10-90
CHECKED BY	R.O. BAKER	4-16-90
APPROVED BY	R.M. GLEASON	4-16-90
CAD FILE NO.	00023081	
SCALE	NONE	
DRAWING NO.	7R0714G	SHEET
PROJECT NO.	000000	

F:\Drawings\2012\1224B\7R0714G.DWG PLOT DATE/TIME: 03-13-14 AT 17:49:26