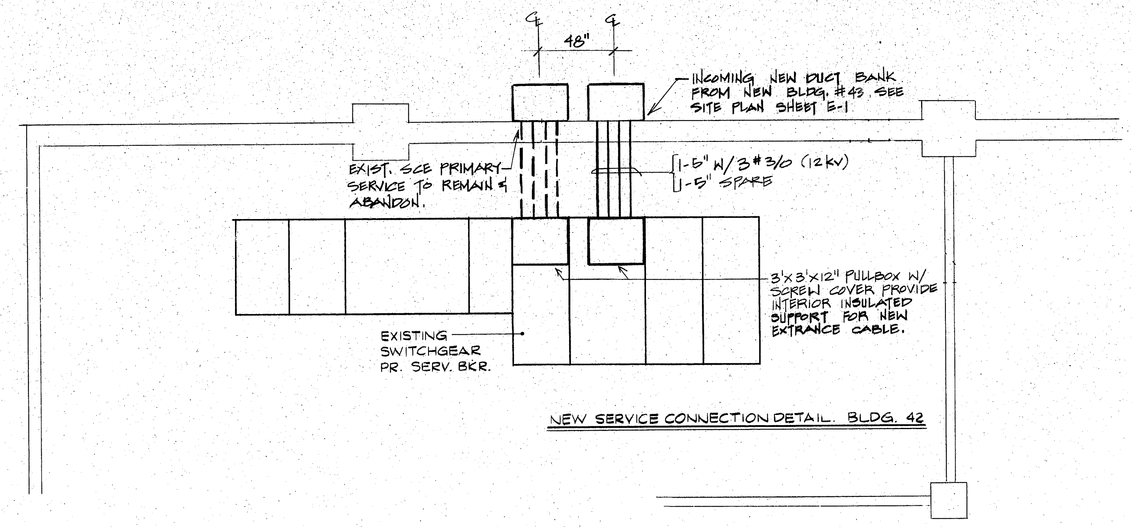


NEW SERVICE CONNECTION DETAIL. BLDG. 42

NEW SERVICE CONNECTION DETAIL
BLDG. 42
SCALE 1/4"=1'-0"

NOTE:
CONTRACTOR TO SCHEDULE SHUTDOWN OF BLDG. 42 SERVICE WITH OWNERS. DISCONNECT & REMOVE EXISTING SCE CABLE & CONDUIT. & INSTALL NEW SERVICE CONNECTION AS SHOWN. PROVIDE STEEL CONES & CLAMP TYPE LUG CONNECTOR FOR CABLE TERMINATION. DISCONNECT & REMOVE UTILITY CO. CURRENT TRANSF. POWER TRANSFORMERS & METERS & RETURN TO UTILITY CO.

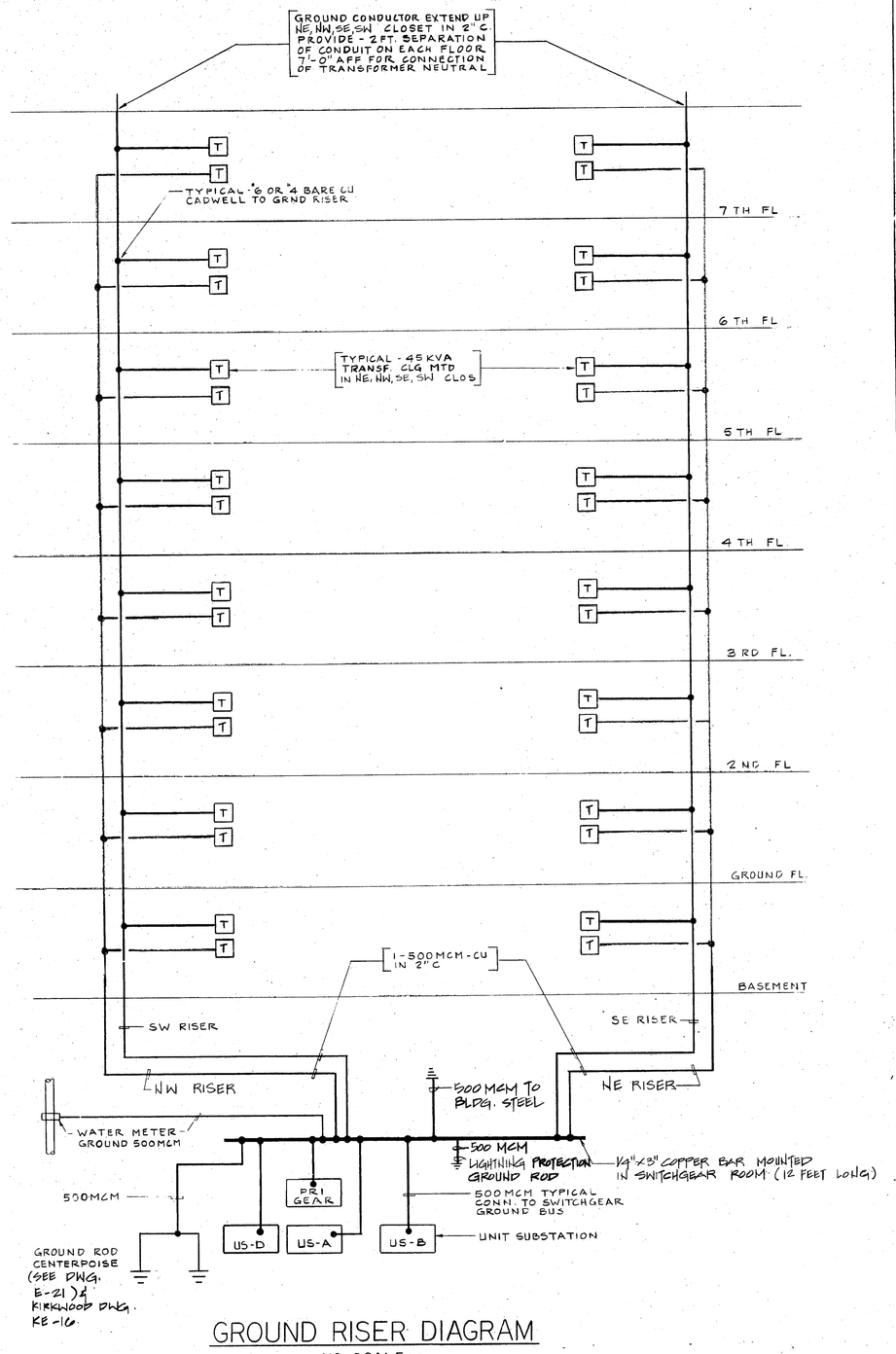
SCHEDULE OF AUTO TRANSFER SWITCHES

SW No.	CONTROLS	AMP RATING	LOCATION	ACCESSORIES	REMARKS
1	LOG LAT-ELECTRICS	150A - 4P SW	SW GR. ROOM	GROUP 9, 9D	
2	SPARE EXIST. SPARE VERT.	150A - 3P	SW GR. ROOM	GROUP 9, 9A IMBEDDED	
3	" " "	150A - 3P	BASEMENT FAN RM.		SEE SHT. E-19 FOR AUTO-START RISER DIAGRAM
4	PP-EL-WA	260A - 3P	WEST ELEV. MER.		
5	PP-EL-WD	260A - 3P	WEST ELEV. MER.		
6	PP-EL-EB	260A - 3P	EAST ELEV. MER.		
7	PP-EL-EA	260A - 3P	EAST ELEV. MER.		
8	FIRE PUMP	150A - 3P	DIESEL PUMP RM.		
9	ELEV CAR LIGHTING	50A - 3P	WEST ELEV. MER.	GROUP 9, 9F	
10	ELEV CAR LIGHTING	50A - 3P	EAST ELEV. MER.	GROUP - 9, 9F	
11	PP-EG	100A - 3P	EAST ELEV. MER.	GROUP-9, 9F	

SCHEDULE OF SWITCHBOARDS

DESIGNATION	CUBICLE NO.	CIRCUIT BREAKER FRAME SIZE	CIRCUIT BREAKER TRIP SIZE	CIRCUIT BREAKER TYPE/MIN AIC RMS SYM	CONTROLS	SUPPLIES	FEEDER NO.	FEEDER SIZE	FEEDER TYPE	FEEDER CDT	REMARKS	CONNECTED LOAD
UNIT SUBSTATION 'A' 2500 KVA - 12 KV/277/480V-3Ø-4W-60 CY	1	—	—	—	USA-1	75 HP FIRE PUMP	3	#3/0	XHHW	2"	ALUMINUM	75 HP
	2	1600A	1200A	SPB/65000	USA-2	BUS DUCT RISER - NW	16	1/0MCM		4-1"		725 KVA
	3	1600A	1200A	SPB/65000	USA-3	BUS DUCT RISER - SW	16	1/0MCM		4-1"		725 KVA
	MAIN	3000A	3000A	SPB/100000	—	MAIN CIRCUIT BREAKER	—	—	—	—		
	4	800A	450A	SPB/100000	USA-4	WEST CORE MOTOR STARTER GROUPS BEHIND 102ND FL.	3	500 MCM	XHHW	3"	ALUMINUM	140 HP
	5	800A	350A	SPB/100,000	USA-5	WEST CORE MOTOR STARTER GROUP - 7H	3	600MCM		3"		123
	6	800A	350A	SPB/100,000	USA-6	ELEV. PANEL PP-EL WA	6	350MCM		3½"		105HP + 15KVA
	7	800A	350A	SPB/100,000	USA-7	ELEV. PANEL PP-EL EB	6	350 MCM		3½"		105 HP
	8	800A	550A	SPB/100,000	USA-8	MOTOR CONTROL CENTER MCC BA	6	500 MCM		4"		215 HP
	9	800A	800A	SPB/100,000	USA-9	DP-6W	16	400 MCM		2-4"		562 KVA
	10	800A	900A	SPB/100,000	USA-10	WEST CORE MOTOR STARTER GROUPS BEHIND 7TH FL.	3	500MCM		3"		107 HP
	11	800A	800	SPB/100,000	USA-11	WEST CORE MOTOR STARTER GROUPS 3RD TO 6TH FL.	3	400 MCM		2½"		120 HP
	12	800A	500	SPB/100,000	USA-12	KITCHEN HVAC VIA DP-K	8	350 MCM		2-3"		345 KVA
	13	800A	3200/400	—	USA-13,	DP-DD	4	350MCM		3"		156 KVA
	14 & 21	800A	—	—	USA-14 -21	1-800A SPARE 4 SPACES FOR 7 FUT. CBS	—	—	—	—		
UNIT SUBSTATION 'B' 2500 KVA - 12 KV/277/480V-3Ø-4W-60 CY	1	1600A	1200A	SPB/65000	USB-B1	BUS DUCT - RISER - NE	16	1/0MCM	XHHW	4-1"	ALUMINUM	725 KVA
	2	1600A	1200A	SPB/65000	USB-B2	BUS DUCT - RISER - SE	16	1/0 MCM		4-1"		725 KVA
	3	3000A	3000A	SPB/100000	—	MAIN CIRCUIT BREAKER	—	—	—	—		
	4	250	250A	SPB/100,000	USB-B4	EAST CORE MOTOR STARTER GROUP-7E	3	300 MCM		2½"	ALUMINUM	95 HP + 19 KW
	5	800A	600A	SPB/100,000	USB-B5	ELEVATOR PANEL PP. EL WD	12	350 MCM		2-3½"		150HP
	6	800A	350A	SPB/100,000	USB-B6	ELEVATOR PANEL PP. EL-EA	6	350 MCM		3½"		105HP + 15KVA
	7	250A	250A	SPB/100,000	USB-B7	PANEL PANEL PP. EB ED	4	300 MCM		2½"		100 KW
	8	800A	550A	SPB/100,000	USB-B8	MOTOR CONTROL CENTER MCC BB	6	500 MCM		4"		217 HP
	9	800A	900A	SPB/100,000	USB-B9	EAST CORE MOTOR STARTER GROUPS BEHIND 10 7TH FL.	3	400 MCM		2½"		92 HP
	10	800A	350	SPB/100,000	USB-B10	EAST CORE MOTOR STARTER GROUP FROM 7 TO 2ND FL.	9	500 MCM		3"		90 HP
	11	800A	450A	SPB/100,000	USB-B11	EAST CORE MOTOR STARTER GROUPS 3RD TO 6TH FL.	3	400MCM		2½"		120 HP
	12,	800A	800	SPB/100,000	USB-B12	KITCHEN POWER VIA DP-K1	12	300 MCM		2-3½"		500 KVA
	14	800A	3000/600		USB-14	6 SPARE CBS DP-R	8	500 MCM		2-3½"		368 KV
	15, 19 TO 21	800A			USB-15, 18 TO 21	1-800A SPARE 4 SPACE FOR 7 FUT CBS	—	—	—	—		
		800A	800A		—	—	—	—	—	—		
EMERGENCY MAIN EMDP	1	225A	225A		EMDP-1 AST-3	MSS-BE, AS, 2E, 3E, AE, 8E, 6E & 7E	3	4/0 MCM	XHHW	2½"	ALUMINUM	96 HP
	2	225A	225A		EMDP-2 AST-2	MSS-BN, 6N, 2N, 3N, 4N, 5N, 6N, 7N, PP-EG	6	350MCM		2-3		167.5 HP
	3	400A	250A		EMDP-3 AST 6 & 7	PP-EL-EA & PP-EL-EB	3	250 MCM		2"		70 HP
	4	600A	350A		EMDP-4 AST 4 & 5	PP. EL WA & PP-EL-WB	6	350 MCM		2-3"		115 HP
	5	600A	600A		EMDP-5 AST-8	FIRE PUMP (75 HP)	3	250 MCM		3"		100 KW
	6	400A	250A		EMDP-6 AST-1	PP EMB	4	300 MCM		2½"		
	7	100A	40A		EMDP-7 AST-11	PP-EG	4	#8	THW	3/4"	COPPER	12 KW
	8											
	9											
UNIT SUBSTATION D 1000 KVA - 12 KV/480V-3Ø-4W	1	2000A	1600A	SPD/65000	—	MAIN CIRCUIT BREAKER						
	2	800A	600A	" "	USD-D-1	DP-EDP	8	400 MCM	XHHW	2-3"	ALUMINUM	335 KVA
	3	800A	600A	" "	USD-2	PP-AC	8	400 MCM		2-3"		334 KVA
	4	800A	400A	" "	USD-3	DP-AG1	6	350 MCM		3½"		194.2 KVA
	5	800A	400A	" "	USD-4	DP-GAD	6	350 MCM		3½"	# 2 GRD. ALSO AL	188 KVA
	6	800A	—	" "	USD-5	SPARE	—	—	—	—	—	—
PRIMARY SWITCHGEAR SCHEDULE	1	1200 A	600A	500MVA	P-1	MAIN INCOMING 12 KV SERVICE	—	—	—	—	—	—
	2	—	—		P-2	CT CAB UTILITY CO	—	—	—	—	—	—
	3	—	—		P-3	CT CAB OWNER	—	—	—	—	—	—
	4	600	600E FUSE	500 MVA	P-4	UNIT SUBSTATION A	3	#4/0	12 KV	4"	3263 KVA	
	5	630	700E FUSE	500 MVA	P-5	" " B	3	#2/0	12 KV	4"	2771 KVA	
	6	600	700E FUSE	500 MVA	P-6	UNIT SUBSTATION C (NEW'65)	3	#2	12 KV	3"	1000 KVA	
	7	600	300E FUSE	500 MVA	P-7	12 KV U/G SERV. TO BLDG #2	3	#3/0	12 KV	5"	47.50 KVA	
	8	600	700E FUSE	500 MVA	P-8	UNIT SUBSTATION	3	#2	12 KV	5"	1930 KVA	
	9	600	—	—	—	SPARE 'D'						

NOTES: 1. ALL FEEDER CABLES (600V RATED) #6 & ABOVE ARE TYPE 'XHHW' (ALUMINUM) & #8 & BELOW ARE COPPER TYPE THW UNLESS NOTED.
2. ALL DOWNSTREAM MOTOR LEAD WIRING ARE COPPER CABLES.



GROUND RISER DIAGRAM
NO SCALE

Norwalk
Building 43
Norwalk, California

Skidmore, Owings & Merrill
Architects/Engineers
One Maritime Plaza
San Francisco, California

Jaros, Baum & Bolles
Consulting Engineers
345 Park Avenue
New York, New York

Approved for the Owner by

Approved for the Architect by

Drawn by | Job Number

Checked by SL | Date

Revisions

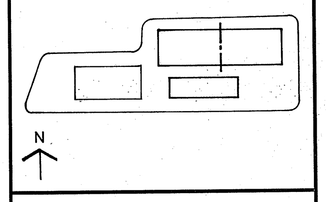
No.	Revisions Indicated thus △1	Date
	ISSUED FOR BID	12-15-81
1	ADDENDUM #20	2-4-82
2	ADDENDUM NO. 37 & FOR BUILDING PERMIT	4-30-82
3	ADDENDUM NO 46	6-11-82
4	ADDENDUM # 78	10-1-82
5	ADDENDUM #100	1-19-83
6	ADDENDUM #116	5-9-83
7	ADDENDUM # 146	9-19-83
	AS BUILT 1-5-84	

NO	DATE	REVISIONS	DRN	CHK	PROJ ENG
1		KW AS BUILT UPDATE	TU	RM	LD

BECHTEL LOS ANGELES JOB NO. 648-0080

EE 8748

KEY PLAN



SWITCHBOARD SCHEDULE

E-24

2-15-84