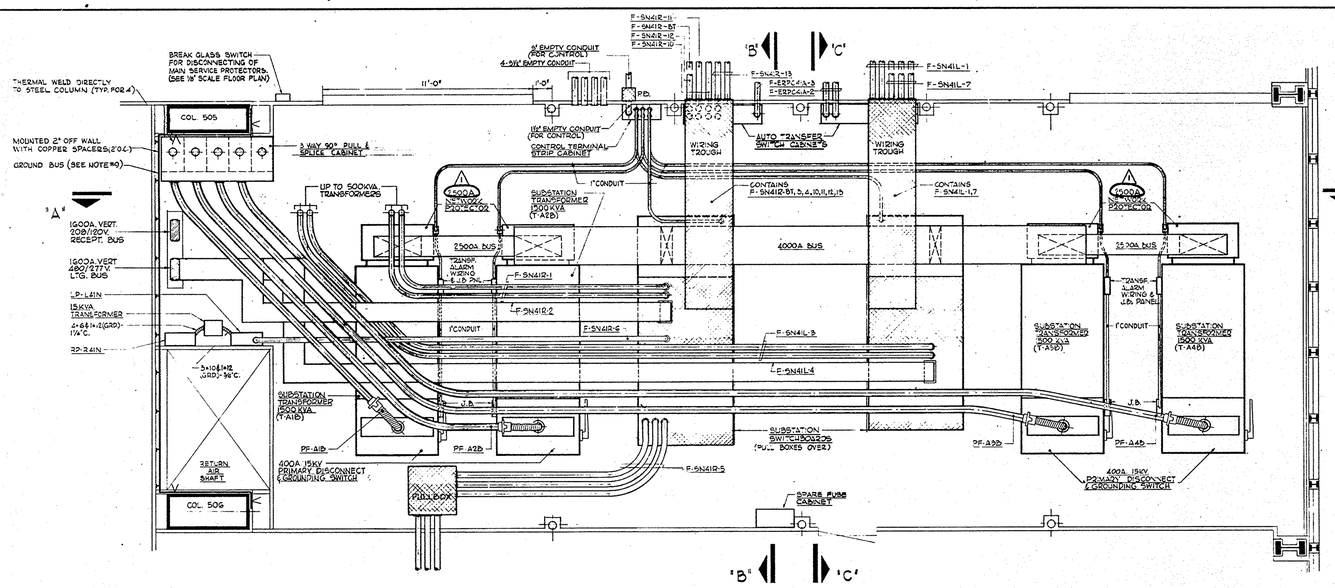
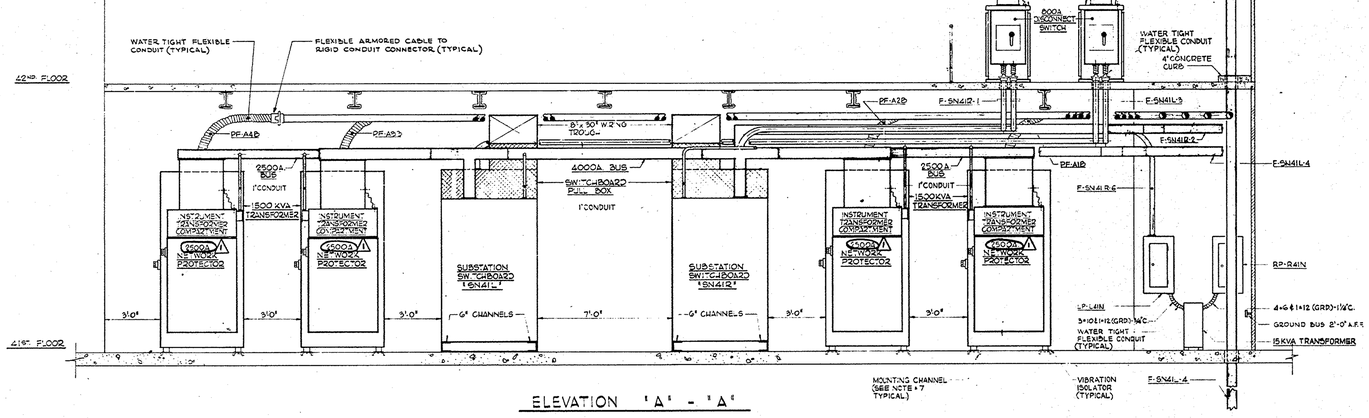


SUBSTATION 'SS-41N' - PART PLAN 41ST FL002

SUBSTATION 'SS-41N' ROOF PART PLAN - 42ND FL.

GENERAL NOTES

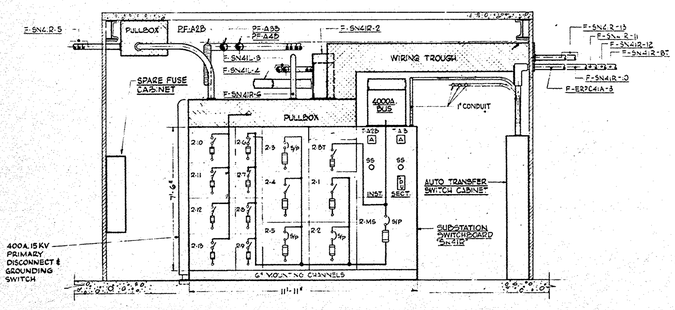
1. FOR SINGLE LINE DIAGRAM SEE DWG. E-X-9.
2. FOR 13.8 KV SERVICE & DISTRIBUTION SYSTEM RISER & SCHEDULES SEE DWG. E-X-7.
3. FOR DETAILS SHOWING VERTICAL SUPPORT OF BUS DUCT, SEE DWGS E-A-131.
4. SEE SPECIFICATIONS 6501 SPECIAL CONSTRUCTION OF SUBSTATION SWITCHBOARDS.
5. FOR AUTO TRANSFER SWITCH DETAILS & SCHEDULE SEE DRAWING E-A-99.
6. FOR PRIMARY SPLICE AND CABLE COMPARTMENT DETAILS SEE DRAWING E-A-126 THRU E-A-128.
7. CONTRACTOR SHALL TAKE EXTREME CARE TO PREVENT DAMAGE TO WATERPROOF MEMBRANE.
8. PROVIDE FULL CAPACITY BUS DUCT TIE SECTION (AND 600A 3P 250V FUSED DISCONNECT SWITCH FOR 208/120V BUS DUCT ONLY) FOR TEMPORARY LIGHT & POWER. DISCONNECT SWHS AND INSTALL 90° ELBOWS AS SHOWN FOR PERMANENT INSTALLATION. DISCONNECT SWITCH NOT SHOWN, SEE SPECIFICATIONS.
9. FOR TYPICAL GROUNDING SYSTEM DIAGRAM SEE DWG. E-A-120.
10. FOR SUBSTATION REMOTE CONTROL WIRING DETAILS SEE DWG. E-E-A-3.



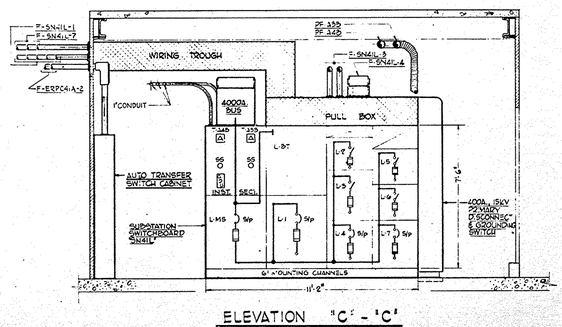
ELEVATION 'A' - 'A'

480/277V MAIN SWITCHBOARD SCHEDULES								3Ø-1/2 NEUTRAL
SECTION	CUBICLE NUMBER	FEEDER SYMBOL	PROTECTIVE DEVICE: DEVICE RATING AMPS	POLES	TYPE	FUSE R.K.5 AMPS.	FEEDER	SERVICE TO	REMARKS
"SN41L"	L-MS	———	4000	3	SERV PROT.	4000	4000A., 3Ø, SWBD. BUS	SWBD BRANCH UNITS L-1 THRU L-7	REMOTE TRIP #
	L-BT	———	2500	3	———	———	———	SPACE ONLY	
	L-1	F-SN41L-1	2500	3	SERV. PROT.	2000	5 SETS OF 3-500 MCM, 1#2(GRD) IN 2-3/4"C	ELEV. DIST PNLS "EL-A41W-A" & "EL-A41E-A"	ZONE IE SHUTTLES 4 3RD LP ELEVS VIA AUTO XFER SW.
	L-2	———	400	3	GMOD SW.	400	———	SPARE	———
	L-3	F-SN41L-3	800	3	GMOD SW.	600	2 SETS OF 3-500 MCM, 1#2(GRD) IN 2-3/4"C	REC. PNLS R25N THRU R40N	VIA 500 KVA XFMR2.
	L-4	F-SN41L-4	1600	3	SERV. PROT.	1600	1600A., 3Ø, FN. BUS DUCT W/GRD.	LTG PNLS L25N THRU L40N	———
	L-5	———	400	3	GMOD SW.	400	———	SPARE	———
	L-6	———	400	3	GMOD SW.	400	———	SPARE	———
	L-7	F-SN41L-7	1200	3	SERV. PROT.	1200	3 SETS OF 3-500 MCM + 1#2 (GRD) IN 3-3/4"C	MOTOR CONTROL CENTER "MN41L"	#
"SN41R"	2-MS	———	4000	3	SERV PROT.	4000	4000A., 3Ø, SWBD BUS	SWBD BRANCH UNITS R-1 THRU R-9	REMOTE TRIP #
	2-BT	F-SN42-BT	400	3	GMOD SW.	200	3#10 & 1#6 (GRD) 3/4"C.	EM LTG PNLS ERPC56A THRU ERPC53A	VIA AUTO XFER SW. & 150 KV1 XFMR.
	2-1	F-SN41R-1	800	3	GMOD SW.	600	2 SETS OF 3-500 MCM, 1#2(GRD) IN 3-3/4"C	REC. PNLS R43N THRU R58N	VIA 500 KVA XFMR.
	2-2	F-SN41R-2	1600	3	SERV PROT.	1600	1600A., 3Ø, FN. BUS DUCT W/GRD.	LTG PNLS L43N THRU L58N	———
	2-3	F-SN41R-3	800	3	SERV PROT.	600	3-500 MCM, 1#2(GRD) IN 3-3/4"C	WATER SUPPLY PUMPS (2-75 H.P.)	#
	2-4	F-SN41R-4	1200	3	GMOD SW.	1200	2 SETS OF 3-550 MCM, 1#2(GRD) IN 4-3/4"C.	SPLIT BUS SECTION OF SWB'D.	VIA AUTO XFER SW.
	2-5	F-SN41R-5	1600	3	SERV. PROT.	1600	3 SETS OF 3-550 MCM + 1#2 (GRD) IN 3-3/4"C	MOTOR CONTROL CENTER "MN41R"	#
	2-6	F-SN41R-6	100	3	GMOD SW.	100	4-3/0 & 1+4(GRD)-2 1/2"C.	LTG. PNL. L41N	———
	2-7	———	400	3	GMOD SW.	400	———	SPARE	———
	2-8	———	400	3	GMOD SW.	400	———	SPARE	———
	2-9	———	400	3	GMOD SW.	400	———	SPARE	———
	SPLIT BUS SECTION 1200A., 3Ø. BUS							SWBD BRANCH UNITS R-10 THRU R-15	
	2-10	F-SN41R-10	400	3	GMOD SW.	250	3-250 MCM & 1"G (GRD)-2 1/2"C.	ELEV. DIST PNL "EL-A1B-A"	ZONE I BANK "A" 3-6UP ELEVS.
	2-11	F-SN41R-11	400	3	GMOD SW.	400	3-500 MCM & 1#2 (GRD) - 3 1/2"C.	ELEV. DIST PNL "EL-A2B-A"	ZONE I BANK "B" 3-9UP ELEVS.
	2-12	F-SN41R-12	400	3	GMOD SW.	400	3-500 MCM & 1#2 (GRD)-3 1/2"C.	ELEV. DIST PNL "EL-A34-A"	ZONE I BANK "C" 3-9UP ELEVS.
	2-13	F-SN41R-13	600	3	GMOD SW.	600	2 SETS OF 3-550 MCM & 1#4 (GRD)-2 3/4"C.	ELEV. DIST. PNL "EL-A4E-A"	ZONE I BANK "D" 4-9UP ELEVS.

* PROVIDE SERVICE PROTECTOR WITH ANTI-SINGLE PHASE DEVICE.



ELEVATION 'B' - 'B'



ELEVATION 'C' - 'C'

CONTRACT BID DRAWING date OCT. 16, 1967

NO.	DATE	BUL. NO.	BY
1	12-15-67		

REVISIONS

NO.	DATE	BUL. NO.	BY

REVISIONS

APPROVED

CHIEF, PLANNING DIVISION

DATE

THE WORLD TRADE CENTER

THE PORT OF NEW YORK AUTHORITY

MINORU YAMASAKI & ASSOCIATES
MINORU YAMASAKI, ARCHITECT

EMERY ROTH & SONS
RICHARD ROTH, ARCHITECT

WORTHINGTON, SKILLING, HELLE & JACKSON
STRUCTURAL ENGINEERS

JAROS, BAUM & BOLLES
MECHANICAL ENGINEERS

JOSEPH R. LORING & ASSOCIATES
ELECTRICAL ENGINEERS

THE PORT OF NEW YORK AUTHORITY
PAVING, UTILITIES, FOUNDATIONS

3/8" 1'-0" 0 6" 1' 2' 3' 4' 5' 6' 7' 8'

TITLE: SUB-STATION-SS-41N 41ST FLOOR NORTH

DRAWN	R.F.H.	CHECKED	J.R.L.
SCALE	3/8"=1'-0"	DATE	OCT. 16, 1967
PROJECT NUMBER		SHEET	66 OF 114
DRAWING NUMBER	E-A-75		

FileJuicer