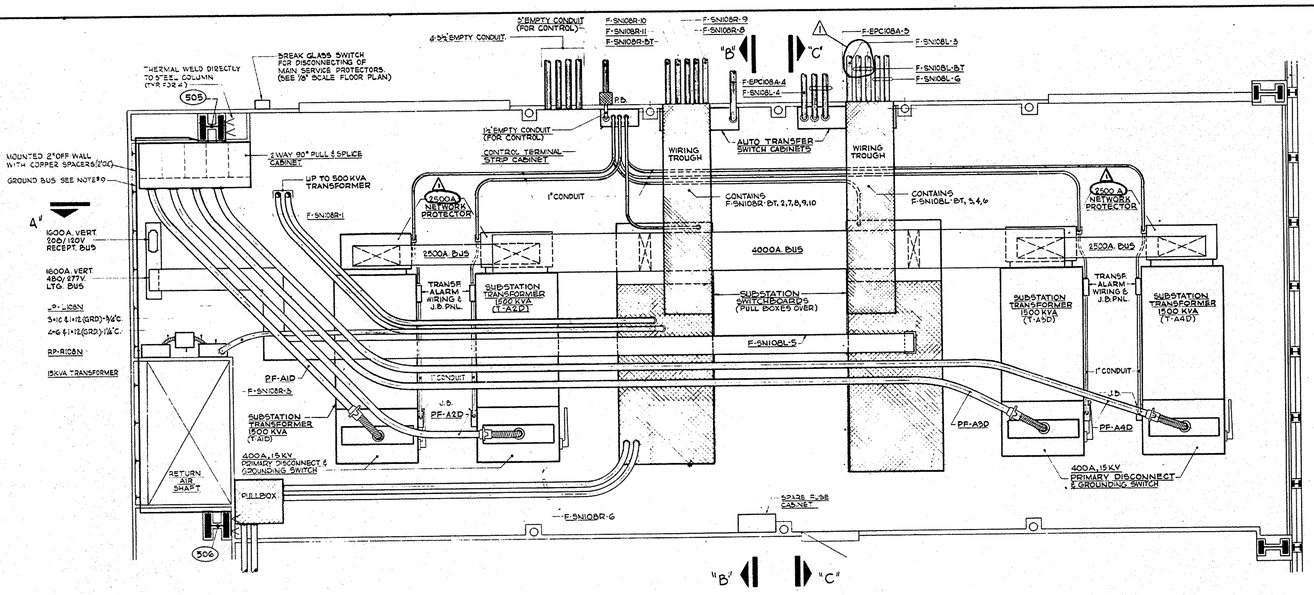
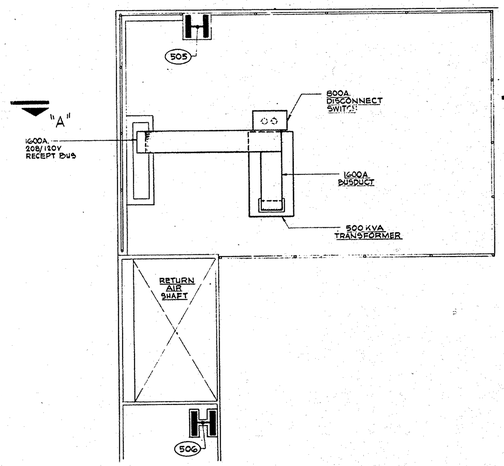


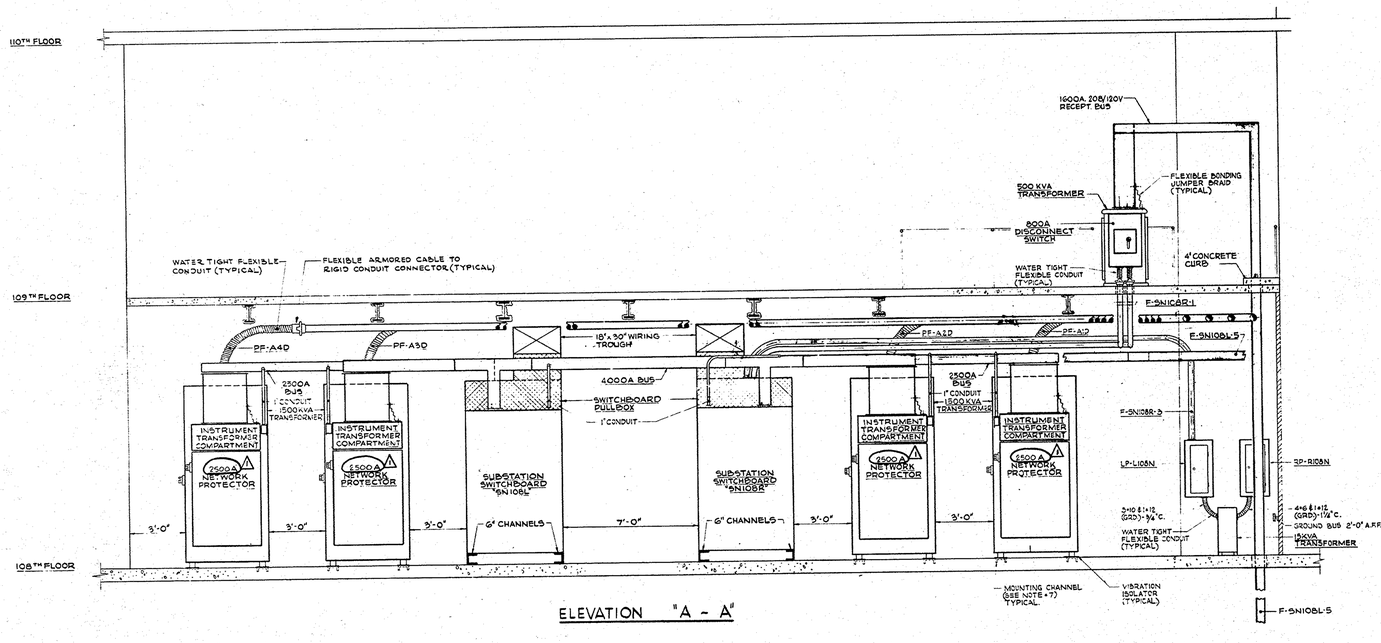
SUBSTATION "SS-108N" - PART PLAN - 108TH FLOOR



SUBSTATION "SS-108N" ROOF
PART PLAN - 109TH FL.

GENERAL NOTES:

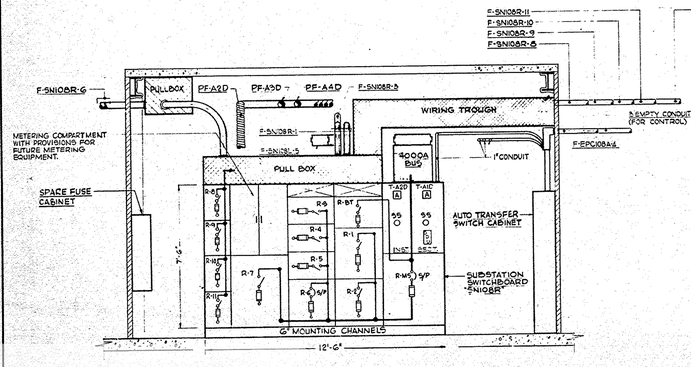
1. FOR SINGLE LINE DIAGRAM SEE DWG. E-X-3.
2. FOR 13.8 KV SERVICE & DISTRIBUTION SYSTEM RISER & SCHEDULES SEE DWG. E-X-7.
3. FOR DETAILS SHOWING VERTICAL SUPPORT OF BUS DUCT SEE DWGS. E-A-131.
4. SEE SPECIFICATIONS FOR SPECIAL CONSTRUCTION OF SUBSTATION SWITCHBOARDS.
5. FOR AUTO TRANSFER SWITCH DETAILS AND 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. FOR TYPICAL GROUNDING SYSTEM DIAGRAM SEE DWG. S-A-120
9. FOR SUBSTATION REMOTE CONTROL WIRING DETAILS SEE DWG. E-X-5.



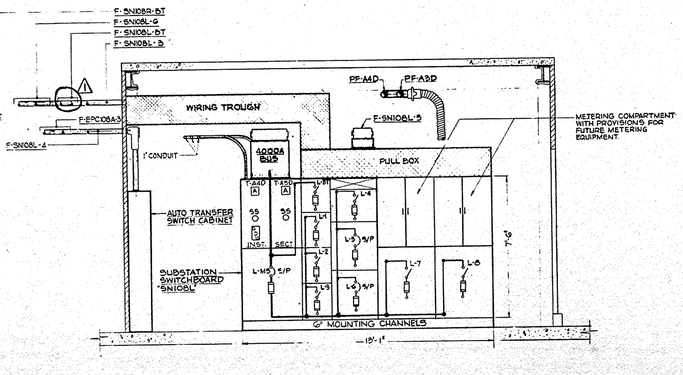
ELEVATION "A - A"

480/277V MAIN SWITCHBOARD SCHEDULES 3Ø-1/2 NEUTRAL									
SECTION	CIRCUIT NUMBER	FEEDER SYMBOL	PROTECTIVE DEVICE: DEVICE RATING AMPS	POLES	TYPE	FUSE SIZE AMPS	FEEDER	SERVICE TO	REMARKS
SN108L	L-MS	——	4000	3	SERV. PROT.	4000	4000A, 3Ø, SWBD. BUS	SWBD BRANCH UNITS L-1 THRU L-8	REMOTE TRIP *
	L-BT	F-SN108L-BT	600	3	QMQB. SW.	600T	2SETS OF 3-350MCM E (1#4(GRD)IN 2-3"C.	F.E. #50 (370 HP) ⚠	VIA AUTO XFER SW.
	L-1	——	400	3	QMQB. SW.	400	——	SPARE	——
	L-2	——	400	3	QMQB. SW.	400	——	SPARE	——
	L-3	F-SN108L-3	100	3	QMQB. SW.	100	3#2 & 1#10(GRD)-1½"C.	WINDOW WASHER RIG (FUTURE)	——
	L-4	F-SN108L-4	600	3	QMQB. SW.	600T	2SETS OF 3-350MCM E (1#4(GRD)IN 2-3"C.	ELEV. DIST. PNL. "EL-A110-A"	ZONE II SHUTTLE 1-370 HP ELEV.
	L-5	F-SN108L-5	1600	3	SERV. PROT.	1600	1600A, 3Ø-4W BUS DUCT, W/GRD	LTG. PNLS (L95) THRU L107N ⚠	——
	L-6	F-SN108L-6	1200	3	SERV. PROT.	1000	2SETS OF 3-500MCM E (1#2(GRD)IN 2-3½"C	MOTOR CONTROL CENTER "MN108L"	*
	L-7	——	800	3	QMQB. SW	600	——	SPARE (FUTURE TV. ANTENNA)	PROVISIONS FOR FUTURE METERING
	L-8	——	800	3	QMQB. SW	600	——	SPARE (FUTURE TV. ANTENNA)	PROVISIONS FOR FUTURE METERING
SN108R	R-MS	——	4000	3	SERV. PROT	4000	4000A, 3Ø, SWBD. BUS	SWBD BRANCH UNITS R-1 THRU R-7	REMOTE TRIP *
	R-BT	F-SN108R-BT	400	3	QMQB. SW.	200	3#3/0 E (1#2(GRD)-2½"C.	EM. LTG PNLS ERPC94A THRU ERPC101A	VIA AUTO XFER SWS E150 KVA XFMR
	R-1	F-SN108R-1	800	3	QMQB. SW.	600	2SETS OF 3-500MCM E (1#2(GRD)IN 1-3½"	REC. PNLS (R93) THRU R107N ⚠	VIA 500 KVA XFMR
	R-2	F-SN108R-2	1200	3	QMQB. SW.	1200	3SETS OF 3-500MCM E (1#2(GRD)IN 3-3½"C	SPLIT BUS SECTION OF SWBD.	VIA AUTO XFER SW
	R-3	F-SN108R-3	200	3	QMQB. SW.	200	4#3/0 E (1#6(GRD)-2½"C.	LTG. PNL. L106N	——
	R-4	——	400	3	QMQB. SW	400	——	SPARE	——
	R-5	——	400	3	QMQB. SW	400	——	SPARE	——
	R-6	F-SN108R-6	1200	3	SERV. PROT.	1000	2SETS OF 3-500MCM E (1#2(GRD)IN 2-3½"C	MOTOR CONTROL CENTER "MN108R"	*
	R-7	——	800	3	QMQB. SW	600	——	SPARE (FUTURE TV. ANTENNA)	PROVISIONS FOR FUTURE METERING
			SPLIT BUS SECTION - 1200A., 3Ø BUS					SWBD BRANCH UNITS R-7 THRU R-10	
	R-8	F-SN108R-8	200	3	QMQB. SW	175	3-# 2/0 E (1#8(GRD)-2½"C.	ELEV. DIST. PNL. "EL-A86-A"	ZONE III BANK "A" 9-35 HP ELEVS.
	R-9	F-SN108R-9	400	3	QMQB. SW	250	3-250 MCM E (1#6(GRD)-2½"C.	ELEV. DIST. PNL. "EL-A95-A"	ZONE III BANK "B" 5-60 HP ELEVS.
	R-10	F-SN108R-10	400	3	QMQB. SW	250	3-250 MCM E (1#6(GRD)-2½"C.	ELEV. DIST. PNL. "EL-A102-A"	ZONE III BANK "C" 5-60 HP ELEVS.
	R-11	F-SN108R-11	400	3	QMQB. SW	400	6-250 MCM E (1#2(GRD)-3½"C.	ELEV. DIST. PNL. "EL-A108-A"	ZONE III BANK "D" 5-90 HP (1-ICAPELEVS.) ⚠

⚠ PROVIDE SERVICE PROTECTOR WITH ANTI-SINGLE PHASE DEVICE.
* CLASS "RK-5" FUSE (TIME DELAY)



ELEVATION "B - B"



ELEVATION "C - C"

CONTRACT BID DRAWING date OCT. 16, 1967

NO.	DATE	BUL. NO.	BY
⚠1	12-18-67		

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-108N 108TH FLOOR NORTH

DRAWN	R.F.H.	CHECKED	J.R.L.
SCALE	3/8"=1'-0"	DATE	OCT. 16, 1967
PROJECT NUMBER		SHEET	70 OF 113
DRAWING NUMBER	E-A-79		

FileJuicer