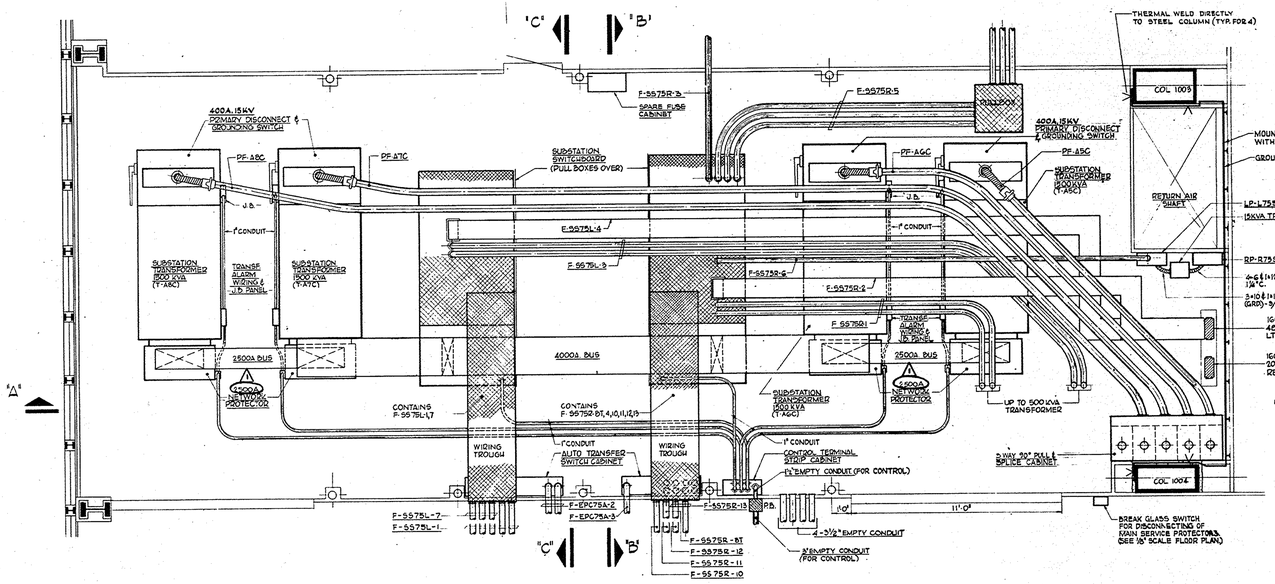
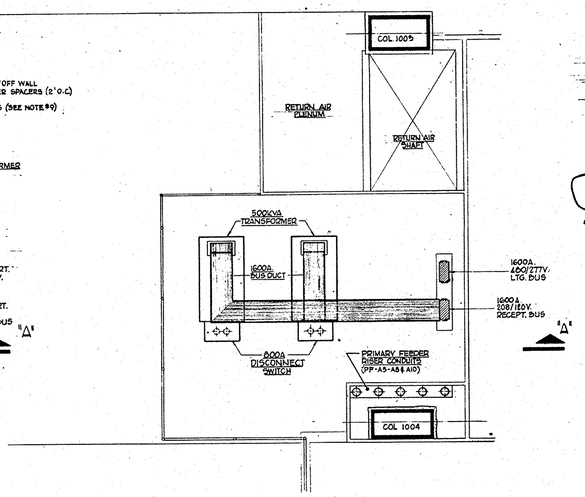


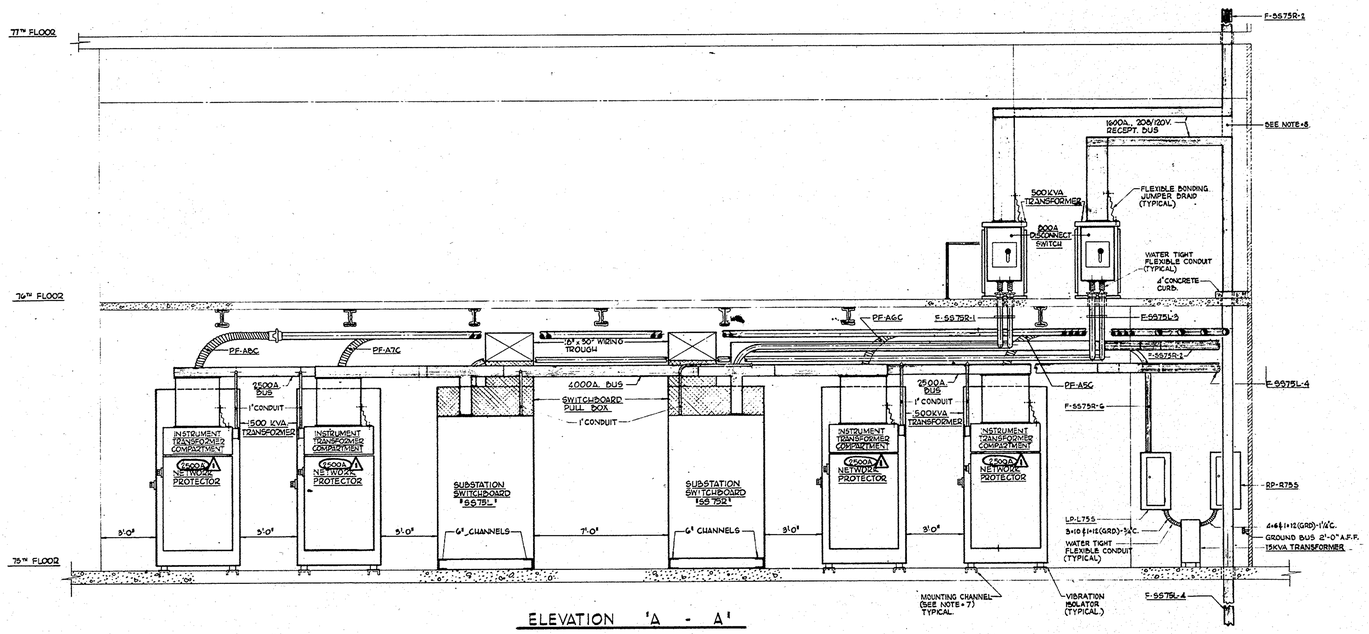
SUBSTATION "SS 75S" PART PLAN 75TH FL.



SUBSTATION "SS 75S" ROOF - PART PLAN 75TH FL.

GENERAL NOTES

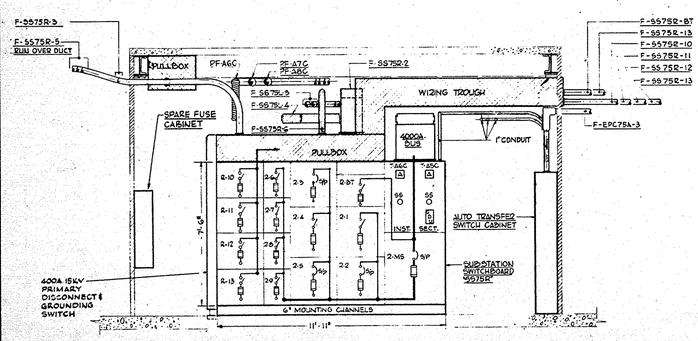
1. FOR SINGLE LINE DIAGRAM SEE DWG E-X-9.
2. FOR 13.8KV SERVICE & DISTRIBUTION SYSTEM RISER & SCHEDULES SEE DWG. E-X-7.
3. FOR DETAILS SHOWING VERTICAL SUPPORT OF BUS DUCT SEE DWGS. E-A-13L.
4. SEE SPECIFICATIONS FOR SPECIAL CONSTRUCTION OF SUBSTATION SWITCHBOARDS.
5. FOR AUTO TRANSFER SWITCH DETAILS AND SCHEDULE. SEE DRAWING E-A-99F.
6. FOR PRIMARY SPLICE AND CABLE COMPARTMENT DETAILS. SEE DRAWING E-A-12S THRU E-A-12B.
7. CONTRACTOR SHALL TAKE EXTREME CARE TO PREVENT DAMAGE TO WATERPROOF MEMBRANE.
8. PROVIDE FULL CAPACITY BUS DUCT TIE SECTION (AND 800A 2P, 250V FUSED DISCONNECT SWITCH FOR 208/120V BUS DUCT ONLY) FOR TEMPORARY LIGHT & POWER. DISCONNECT SANS 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-12D
10. FOR SUBSTATION REMOTE CONTROL WIRING DETAILS SEE DWG. E-X-3.



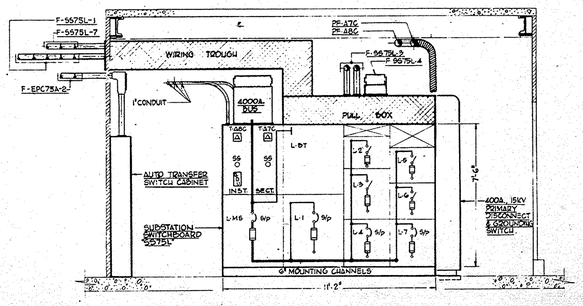
ELEVATION 'A - A'

480/277V MAIN SWITCHBOARD SCHEDULES										3Φ-1/2 NEUTRAL
SECTION	CIRCUIT NUMBER	FEEDER SYMBOL	PROTECTIVE DEVICE: DEVICE RATING/AMPS	POLES	TYPE	FUSE SIZE AMPS	FEEDER	SERVICE TO	REMARKS
'SS 75L'	L-MS	——	4000	3	SERV. PROT.	4000	4000A., 3Φ, SWBD BUS	SWBD BRANCH UNITS L-1 THRU L-7	REMOTE TRIP *
	L-BT	——	1600	3	——	——	——	SPACE ONLY	——
	L-1	F-5575L-1	2500	3	SERV. PROT.	2000	5 SETS OF 3-500MCM, 1#2(GRD)IN 2-1/2"C.	ELEV. DISC PNLS 'EL-A2S-D' EL-A7&W-D'	ZONE III, SHUTTLE @ 21'3"10" ELEVS. VIA 500 KVA XFMR.
	L-2	——	400	3	GMQB SW.	400	——	SPARE	——
	L-3	F-5575L-3	600	3	GMQB SW.	600	2 SETS OF 3-500MCM, 1#2(GRD)IN 2-1/2"C.	REC. PNLS 2595 THRU 2745	
	L-4	F-5575L-4	1600	3	SERV. PROT.	1600	1600A., 3Φ, 4W. BUS DUCT W/GRD.	LTG PNLS L595 THRU L745	——
	L-5	——	400	3	GMQB SW.	400	——	SPARE	——
	L-6	——	400	3	GMQB SW.	400	——	SPARE	——
	L-7	F-5575L-7	1600	3	SERV. PROT.	1600	3 SETS OF 3-500 MCM & 1#2 (GRD) IN 3-1/2"C.	MOTOR CONTROL CENTER 'MS75L'	*
	2-MS	——	4000	3	SERV. PROT.	4000	4000A., 3Φ, SWBD BUS	SWBD BRANCH UNITS R-1 THRU R-9	REMOTE TRIP *
'SS 75R'	R-BT	F-5575R-8T	400	3	GMQB SW.	200	3-#3/0 & 1#6(GRD) 2-1/2"C.	EM. LTG PNLS, EPC 60A THRU EPC 91A	VIA AUTO XFER SW. & 150 KVA. XFMR.
	R-1	F-5575R-1	600	3	GMQB SW.	600	2 SETS OF 3-500MCM, 1#2(GRD)IN 2-1/2"C.	REC. PNLS R715 THRU R925	VIA 500 KVA XFMR
	R-2	F-5575R-2	1600	3	SERV. PROT.	1600	1600A., 3Φ, 3W. BUS DUCT W/GRD.	LTG PNLS, L775 THRU L925	——
	R-3	F-5575R-3	800	3	SERV. PROT.	600	3-500 MCM, 1#2 (GRD) IN 1-3/2"C.	WATER SUPPLY PUMPS (2-75HP)	*
	R-4	F-5575R-4	1200	3	GMQB SW.	1200	4 SETS OF 3-500MCM, 1#2(GRD)IN 4-3"C.	SPLIT BUS SECTION OF SWBD	VIA AUTO XFER SW.
	R-5	F-5575R-5	1200	3	SERV. PROT.	1200	3 SETS OF 3-500MCM & 2 (GRD) IN 3-3"C.	MOTOR CONTROL CENTER 'MS75R'	*
	R-6	F-5575R-6	200	3	GMQB SW.	200	4-#3/0 & 1#6(GRD)-2 1/2" C.	LTG. PNL. L755	——
	R-7	——	400	3	GMQB SW.	400	——	SPARE	——
	R-8	——	400	3	GMQB SW.	400	——	SPARE	——
	R-9	——	400	3	GMQB SW.	400	——	SPARE	——
	SPLIT BUS SECTION 1200A., 3Φ, BUS							SWBD BRANCH UNITS R-10 THRU R-19	——
	R-10	F-5575R-10	200	3	GMQB SW.	175	3-#3/0 & 1#8(GRD) 2-1/2"C.	ELEV. DIST. PNL. 'EL-A5S-D'	ZONE II BANK 'A' 9-35 IP ELEVS.
	R-11	F-5575R-11	400	3	GMQB SW.	250	3-250 MCM & 1#6(GRD) - 2 1/2" C.	ELEV. DIST. PNL. 'EL-A6S-D'	ZONE II BANK 'B' 5-36 IP ELEVS.
	R-12	F-5575R12	400	3	GMQB SW.	250	3-250 MCM & 1#6(GRD) - 2 1/2" C.	ELEV. DIST. PNL. 'EL-A6S-D'	ZONE II BANK 'C' 3-36 IP ELEVS.
	R-13	F-5575R-13	600	3	GMQB SW.	600	2-SETS OF 3-500MCM & 1#4 (GRD) IN 2-3"C.	ELEV. DIST. PNL. 'EL-A7S-D'	ZONE II BANK 'D' 3-90 IP & 1-110 IP 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	11-18-67		

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

WORTHINGTON, SKILLING, HELLE & JACKSON
STRUCTURAL ENGINEERS

JOSEPH R. LORING & ASSOCIATES
ELECTRICAL ENGINEERS

EMERY ROTH & SONS
RICHARD ROTH, ARCHITECT

JAROS, BAUM & BOLLES
MECHANICAL 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-75S 75TH FLOOR SOUTH

DRAWN	R.F.H.	CHECKED	J.R.L.
SCALE	3/8"=1'-0"	DATE	OCT. 16, 1967
PROJECT NUMBER		SHEET	69 OF 114
DRAWING NUMBER	E-A-78		

File Juicer