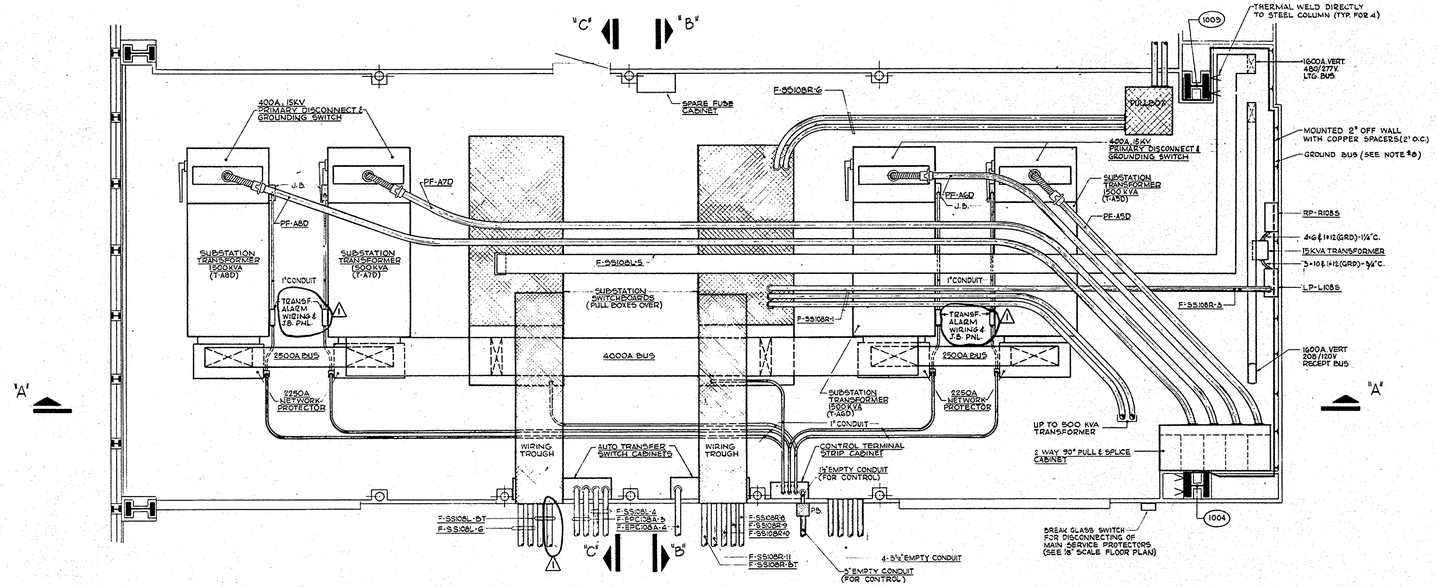
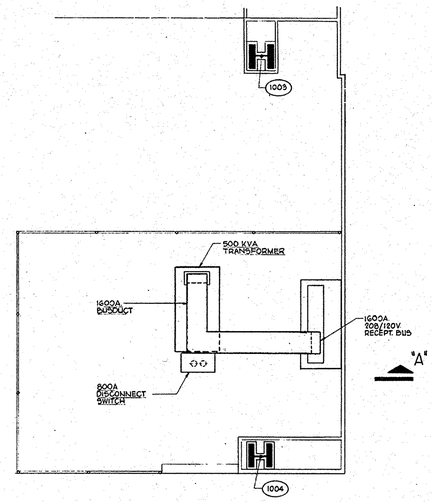


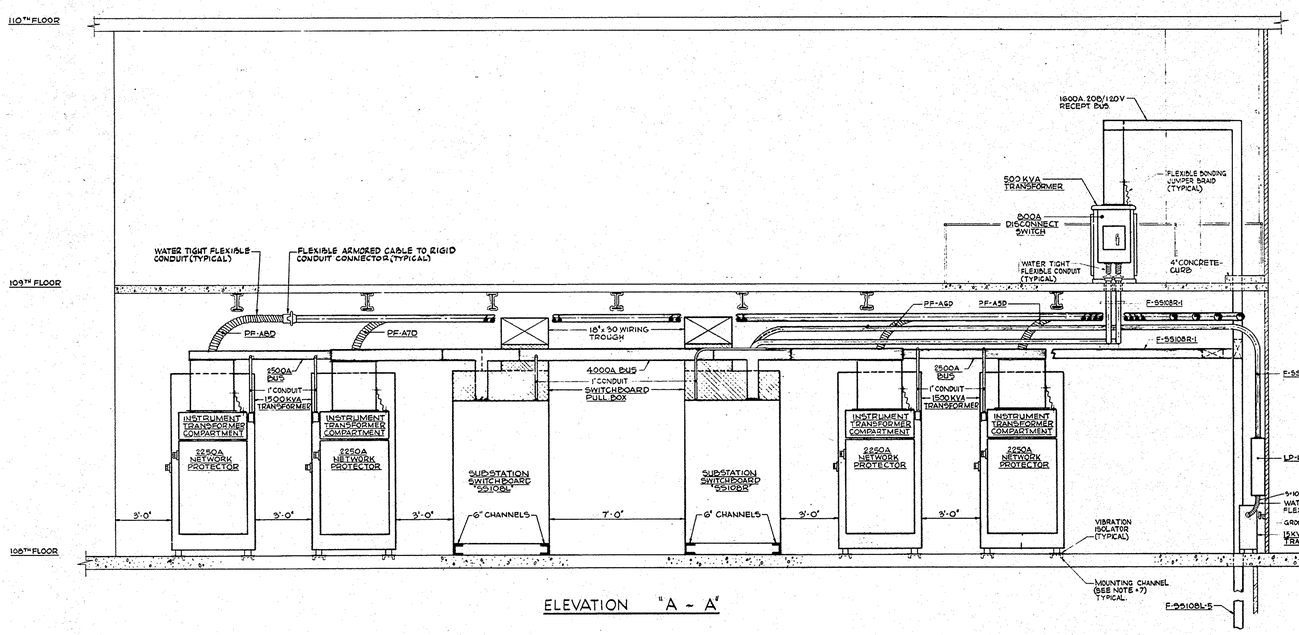

SUBSTATION "SS-1085" - PART PLAN - 108TH FLOOR



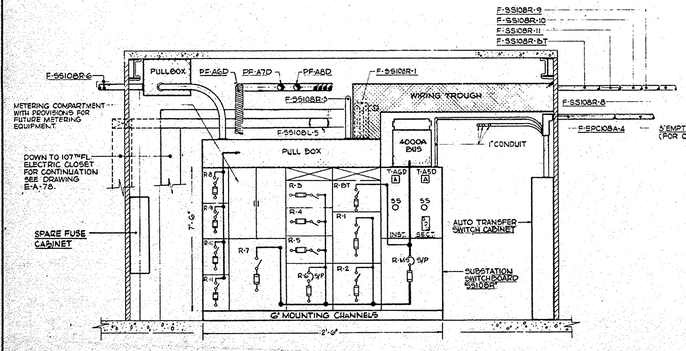

SUBSTATION "SS-1085" ROOF
PART PLAN - 109TH FLOOR

## GENERAL NOTES

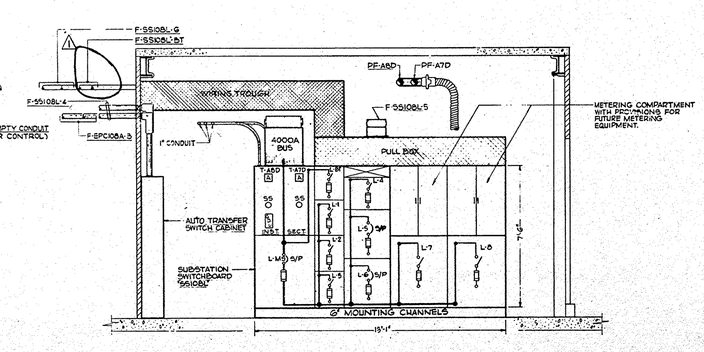
1. FOR SINGLE LINE DIAGRAM SEE DWG. E-X-9.
2. FOR 15 KV SERVICE & DISTRIBUTION SYSTEM RISER & SCHEDULES SEE DWG E-X-7.
3. FOR DETAILS SHOWING VERTICAL SUPPORT OF BUS DUCT SEE DWGS. E-A-131.
4. SEE SPECIFICATION FOR SPECIAL CONSTRUCTION OF SUB-STATION SWITCHBOARDS.
5. FOR AUTO TRANSFER SWITCH DETAILS & 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. FOR TYPICAL GROUNDING SYSTEM DIAGRAM SEE DWG. E-A-120
9. FOR SUBSTATION REMOTE CONTROL WIRING DETAILS SEE DWG. # E-X-3.




ELEVATION "A - A"




ELEVATION "B - B"




ELEVATION "C - C"

480/277V MAIN SWITCHBOARD SCHEDULE 3Φ-1/2 NEUTRAL

| SECTION | CIRCUIT NUMBER | FEEDER SYMBOL | DEVICE RATING AMPS | NO. POLES | TYPE | FUSE SIZE AMPS | FEEDER | SERVICE TO | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| SS108L | L-M5 | —— | 4000 | 3 | SERV PROT | 4000 | 4000A, 3Φ SWBD BUS | SWBD BRANCH UNITS L1 THRU L-8 | REMOTE TRIP * |
| | L-BT | F-55108L-BT | 600 | 3 | QMQB. SW | 600T | 2 SETS OF 3-350 MCM & 1#4 (GRD) IN 2-3"C. | FE. #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 | —— | 400 | 3 | QMQB. SW | 400 | —— | SPARE | —— |
| | L-4 | F-55108L-4 | 600 | 3 | QMQB. SW | 600T | 2 SETS OF 3-350 MCM & 1#4 (GRD) IN 2-3"C. | ELEV. DIST. PNL. "EL-A110"-B | ZONE II SHUTTLE 1-370 HP ELEV. |
| | L-5 | F-55108L-5 | 1600 | 3 | SERV. PROT | 1600 | 1600A, 3Φ 4W BUS DUCT W/GRD. | LTG. PNLS (L95) THRU L107 S | —— |
| | L-6 | F-55108L-6 | 1200 | 3 | SERV. PROT | 1000 | 2 SETS OF 3-500 MCM & 1#2 (GRD) IN 2-3½"C. | MOTOR CONTROL CENTER "MS108L" | * |
| | L-7 | —— | 800 | 3 | QMQB. SW | 600 | —— | SPARE (FUTURE T.V. ANTENNA) | PROVISIONS FOR FUTURE METERING |
| | L-8 | —— | 800 | 3 | QMQB. SW | 600 | —— | SPARE (FUTURE KITCHEN LOAD) | PROVISIONS FOR FUTURE METERING |
| SS106R | R-M5 | —— | 4000 | 3 | SERV. PROT. | 4000 | 4000A, 3Φ SWBD BUS | SWBD BRANCH UNITS R-1 THRU R-7 | REMOTE TRIP * |
| | R-BT | F-55108R-BT | 400 | 3 | QMQB. SW | 200 | 3-#6 & 1#6 (GRD) - 2½"C. | EM LTG PNLS "EPC 94 THRU EPC 100 A | VIA AUTO XFER SW'S E150 KVA XFMR |
| | R-1 | F-55108R-1 | 800 | 3 | QMQB. SW | 600 | 2 SETS OF 3-500 MCM & 1#2 (GRD) IN 2-3½"C. | REC. PNLS (R93) THRU R107 A | VIA 500 KVA XFMR |
| | R-2 | F-55108R-2 | 1200 | 3 | QMQB. SW | 1200 | 3 SETS OF 3-500 MCM & 1#2 (GRD) IN 3-3½"C. | SPLIT BUS SECTION OF SWBD | VIA AUTO XFER SW. |
| | R-3 | F-55108R-3 | 200 | 3 | QMQB. SW. | 200 | 4-#3/0 & 1#6 (GRD) - 2½"C. | LTG. PNL. L108S | —— |
| | R-4 | —— | 400 | 3 | QMQB. SW. | 400 | —— | SPARE | —— |
| | R-5 | —— | 400 | 3 | QMQB. SW | 400 | —— | SPARE | —— |
| | R-6 | F-55108R-6 | 1200 | 3 | SERV. PROT. | 1000 | 2 SETS OF 3-500 MCM & 1#2 (GRD) IN 2-3½"C. | MOTOR CONTROL CENTER "MS108R" | * |
| | R-7 | —— | 800 | 3 | QMQB. SW. | 600 | —— | SPARE (FUTURE T.V. ANTENNA) | PROVISIONS FOR FUTURE METERING |
| | | | | | SPLIT BUS SECTION - 1200A 3Φ BUS | | | SWBD BRANCH UNITS R-7 THRU R-10 | —— |
| | R-8 | F-55108R-8 | 200 | 3 | QMQB. SW | 175 | 3-#2/0 & 1#8 (GRD) - 2½"C. | ELEV. DIST. PNL "EL-A88-B" | ZONE III BANK "A" 5-35 HP ELEVS. |
| | R-9 | F-55108R-9 | 400 | 3 | QMQB. SW | 250 | 3-250 MCM & 1#6 (GRD) - 2½"C. | ELEV. DIST. PNL. "EL-A95-B" | ZONE III BANK "B" 5-60 HP ELEVS. |
| | R-10 | F-55108R-10 | 400 | 3 | QMQB. SW | 250 | 3-250 MCM & 1#6 (GRD) - 2½"C. | ELEV. DIST. PNL. "EL-A102-B" | ZONE III BANK "C" 3-98 HP ELEVS. |
| | R-11 | F-55108R-11 | 400 | 3 | QMQB. SW | 400 | 6-250 MCM & 1#2 (GRD) - 3½"C. | ELEV. DIST. PNL. "EL-A109-B" | ZONE III BANK "D" 3-90 HP ELEVS. |

* PROVIDE SERVICE PROTECTOR WITH ANTI-SINGLE PHASE DEVICE.
# CLASS "R" FUSE (TIME DELAY)

CONTRACT BID DRAWING date OCT. 16, 1967

| NO. | DATE | BUL. NO. | BY |
|---|---|---|---|
| 1 | 12-18-67 | | |

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'

DRAWING Nº E-A-81 AND E-A-82 NOT PART OF THIS CONTRACT.

TITLE
SUB-STATION SS-1085
108TH FLOOR SOUTH

| | | | |
|---|---|---|---|
| DRAWN | R.F.H. | CHECKED | J.R.L. |
| SCALE | 3/8"=1'-0" | DATE | OCT. 16, 1967 |
| PROJECT NUMBER | | SHEET 71 OF 114 | |
| DRAWING NUMBER | E-A-80 | | |

File Juicer
FileJuicer