## LEGEND

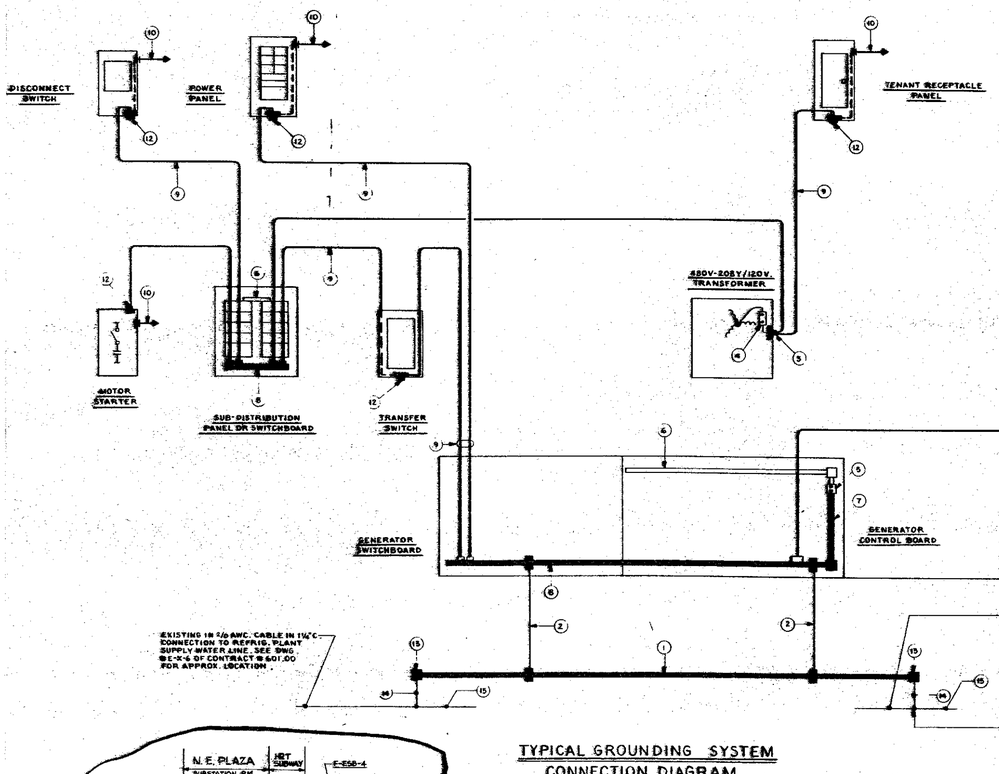
(1) GROUND BUS ¼"X 2" MINIMUM COPPER BAR IN SUBSTATION ROOM
(2) NO. 8/0 MINIMUN GREEN INSULATED GROUNDING CONDUCTOR
(3) GROUND PAD
(4) LOW VOLTAGE GROUND DISCONNECT LINK.
(5) NEUTRAL DISCONNECT LINK.
(6) INSULATED HALF NEUTRAL BUS.
(7) NEUTRAL TO GROUND BUS ¼"X 2" MINIMUN COPPER BAR.
(8) UNINSULATED GROUND BUS ¼"X 2" MINIMUN COPPER BAR, BONDED TO EACH SECTION OF SWITCHGEAR OR DISTRIBUTION EQUIPMENT HOUSING.
(9) GROUND BUS ON BUS DUCT OR SEPARATE GROUNDING CONDUCTOR IN FEEDER CONDUIT.
(10) BRANCH DEVICE GROUNDING CONDUCTOR IF SPECIFICALLY REQ'D.
(11) MOTOR BASE GROUND CONNECTION.
(12) GROUNDING LUG BRAZED TO CABINET WITH BAR IF REQUIRED.
(13) THERMAL WELD TO STEEL COLUMNS AS SHOWN ON DWG. # E-G-4.
(14) 1#8/0 AWG. IN 1¼" CONDUIT-GROUND SYSTEM CONNECTION TO CABLE COUNTERPOISE.
(15) EXISTING CABLE COUNTERPOISE (1#8/0 AWG. IN 1¼"C.)

## NOTES

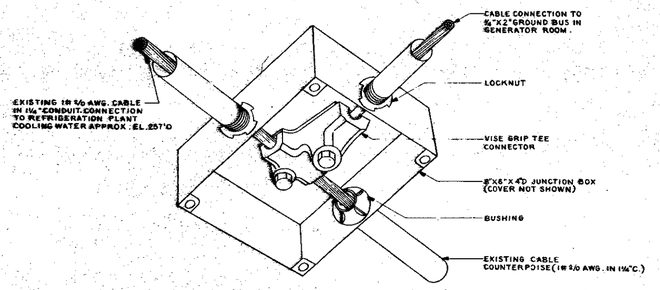
1- FOR LIST OF DRAWINGS, SYMBOL LIST AND GENERAL NOTES SEE DRAWING # E-G-1.

2- FOR LIGHTING PANEL, MAIN AND DISTRIBUTION SWITCHBOARD SCHEDULES SEE DRAWING #E-G-6

3- MAIN TRANSFER SWITCH CONTROL PANEL AS IN THIS CONTRACT FOR INSTALLATION & CONNECTION ONLY-FURNISHED UNDER CONTRACT # 604.00

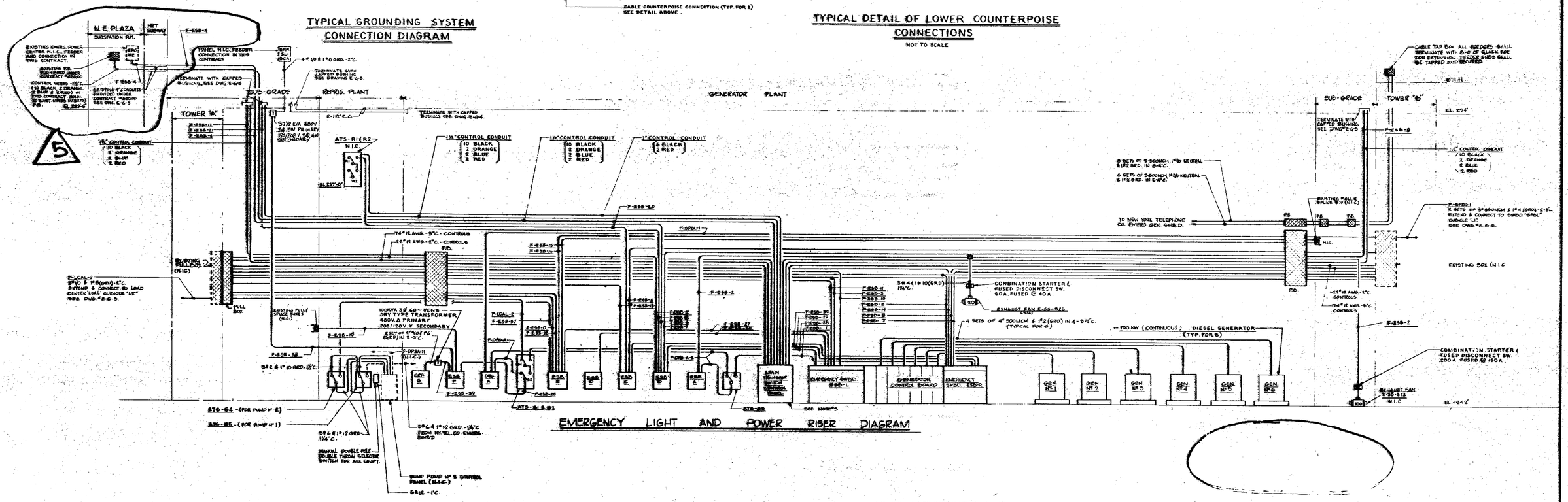



TYPICAL GROUNDING SYSTEM CONNECTION DIAGRAM




TYPICAL DETAIL OF LOWER COUNTERPOISE CONNECTIONS

NOT TO SCALE




EMERGENCY LIGHT AND POWER RISER DIAGRAM

CONTRACT BID DRAWING DATE MAY 1, 70

| NO. | DATE | SUB. NO. | BY |
|---|---|---|---|
| 6 | 11-12 | GP-6 | |
| 5 | 8-25-71 | GP-5 | |
| 4 | 8-25-71 | GP-4 | |
| 3 | 5-2-71 | GP-3 | |
| 2 | 7-28-70 | GP-2 | |

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, MELLE & JACKSON
STRUCTURAL ENGINEERS

JAROS, BAUM & BOLLES
MECHANICAL ENGINEERS

JOSEPH R. LORING & ASSOCIATES
ELECTRICAL ENGINEERS

THE PORT OF NEW YORK AUTHORITY
PAVING, UTILITIES, FOUNDATIONS

TITLE: EMERGENCY LIGHT AND POWER RISER DIAGRAM AND GROUNDING SYS. DIAGRAM AND DETAILS

| | | | |
|---|---|---|---|
| DRAWN | R.F.H. | CHECKED | J.R.L. |
| SCALE | NONE | DATE | MAY 1, 1970 |
| PROJECT NUMBER | 604.00 | SHEET | E-G-2 |
| DRAWING NUMBER | E-G-2 | | |