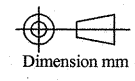


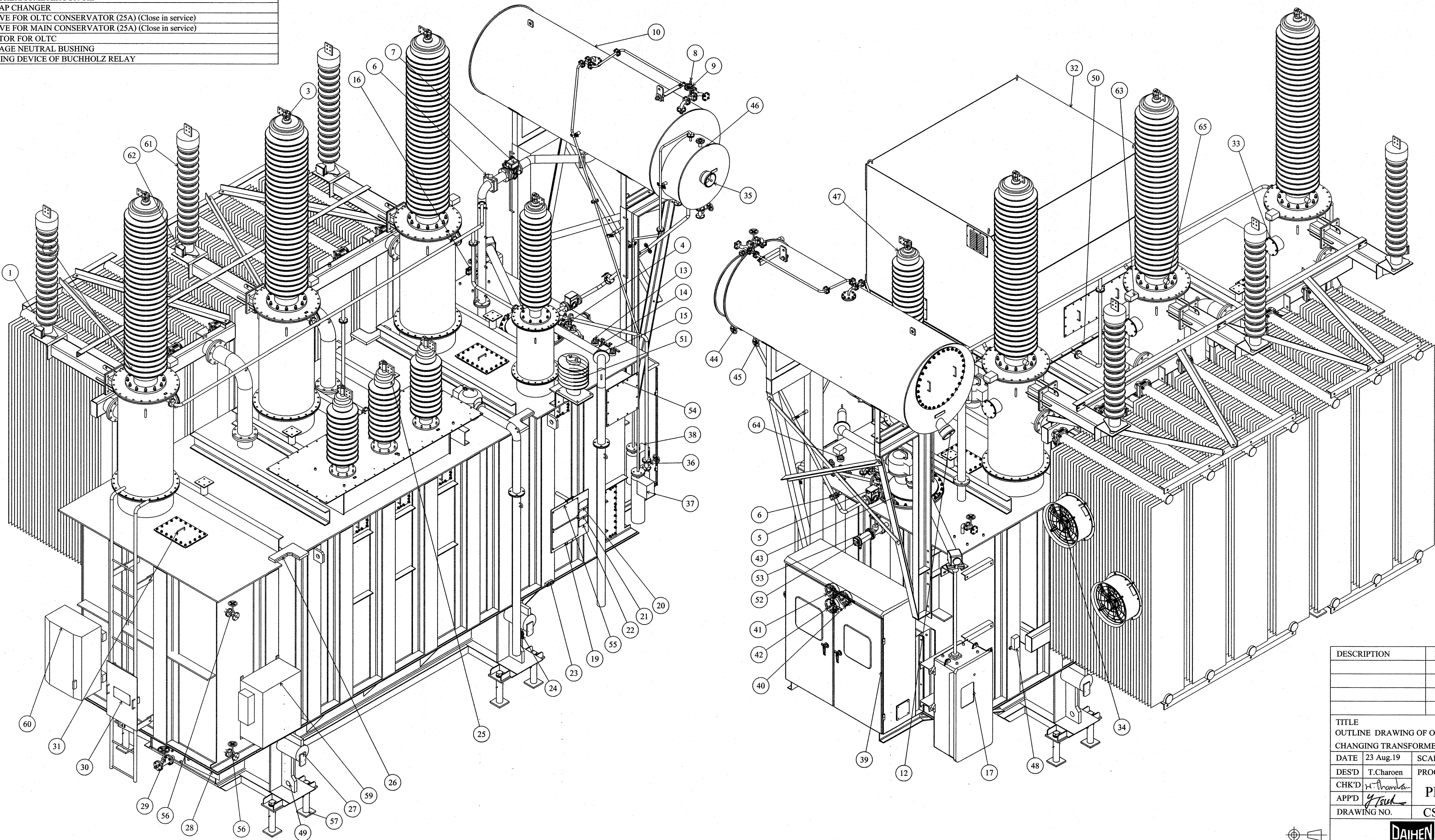
| DESCRIPTION | DATE | REV. |
|---|----------------------|------------------|
| | | △ |
| | | △ |
| | | △ |
| TITLE | | |
| OUTLINE DIMENSION DRAWING OF ON-LOAD TAP CHANGING TRANSFORMER | | |
| OUT DOOR TYPE | ONAN/ONAF | |
| PHASE | 3 | FREQUENCY 50 Hz. |
| KVA. RATING | 60,000/60,000 kVA. | |
| HIGH VOLTAGE | 1U | |
| | (1) 138,600 V. +5% | 1N |
| | (5) 132,000 V. | 1W |
| | (17) 112,200 V. -15% | 1V |
| | 2.50% Step 17 Taps | |
| LOW VOLTAGE | 33,000 V. | 2U |
| | | 2V |
| | | 2W |
| TOTAL MASS | 120,000 kg. | |
| UNTANKING MASS | 75,500 kg. | |
| OIL QUANTITY | 28,400 L. | |
| PAINTING COLOR | ANSI NO.70 GRAY | |
| QUANTITY | 2 | |
| DATE | 23 Aug.19 | SCALE 1/40 |
| DES'D | T.Chareon | PROCESS NO. |
| CHK'D | H. Janda | PP0653D |
| APP'D | G. Janda | |
| DRAWING NO. | CS-200221 | |



| NO. | NAME |
|-----|---|
| 21 | RUBBER CELL TYPE CONSERVATOR CAUTION PLATE |
| 22 | OIL LEVEL TEMP CURVE FOR TRANSFORMER |
| 23 | GROUND PAD FOR HIGH VOLTAGE NEUTRAL BUSHING (95-150 sq.mm) |
| 24 | GROUND PAD FOR MAIN TANK (95-150 sq.mm) |
| 25 | LOW VOLTAGE BUSHING |
| 26 | ROPE GUIDE |
| 27 | LIFTING LUG AND PULLING LUG |
| 28 | JACKING BOSS |
| 29 | DRAIN VALVE FOR MAIN TANK (32A) WITH OIL SAMPLING PLUG (Close in service) |
| 30 | LADDER WITH CLIMB PROTECTION AND PAD LOCK AND CAUTION NAME PLATE |
| 31 | HANDHOLE FOR CLAMPING OF CORE AND COIL |
| 32 | LOW VOLTAGE AIR FILLED CABLE BOX |
| 33 | CT JUNCTION BOX (HV.) |
| 34 | COOLING FAN |
| 35 | DIAL TYPE OIL LEVEL INDICATOR FOR MAIN CONSERVATOR |
| 36 | DRAIN VALVE FOR OLTC (25A) (Close in service) |
| 37 | DEHYDRATING BREATHER FOR MAIN CONSERVATOR |
| 38 | DEHYDRATING BREATHER FOR OLTC CONSERVATOR |
| 39 | LOCAL CONTROL CABINET |
| 40 | DIAL TYPE THERMOMETER FOR WINDING (HV.) |
| 41 | DIAL TYPE THERMOMETER FOR WINDING (LV.) |
| 42 | DIAL TYPE THERMOMETER FOR OIL |
| 43 | ON-LOAD TAP CHANGER |
| 44 | DRAIN VALVE FOR OLTC CONSERVATOR (25A) (Close in service) |
| 45 | DRAIN VALVE FOR MAIN CONSERVATOR (25A) (Close in service) |
| 46 | CONSERVATOR FOR OLTC |
| 47 | HIGH VOLTAGE NEUTRAL BUSHING |
| 48 | GAS SAMPLING DEVICE OF BUCHHOLZ RELAY |

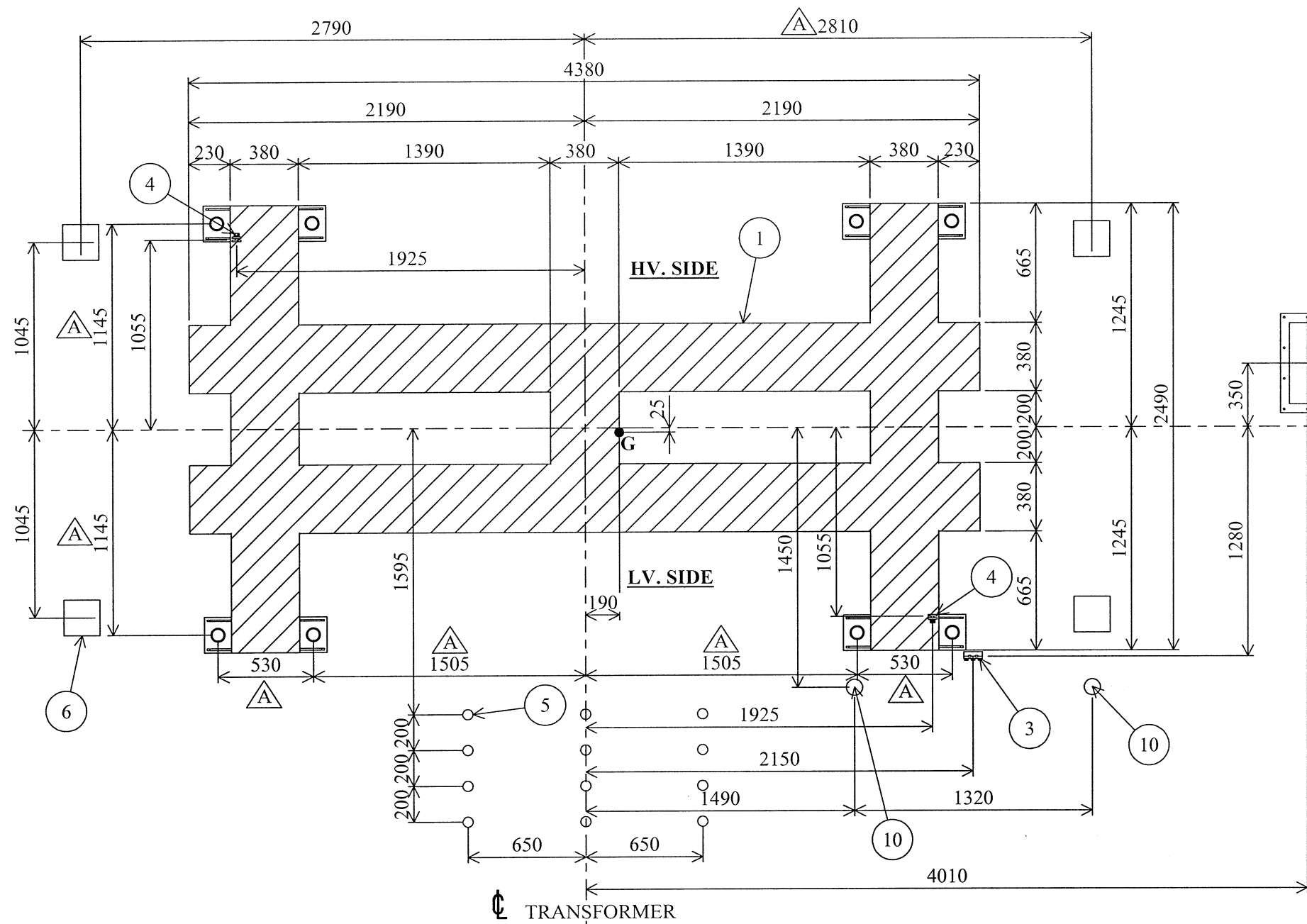
| NO. | NAME |
|-----|---|
| 49 | PULLING HOLE |
| 50 | CT JUNCTION BOX (LV.) |
| 51 | NEUTRAL CURRENT TRANSFORMER (OUT OF SUPPLY) |
| 52 | CONNECTING VALVE FOR SUDDEN PRESSURE RELAY (50A) (Open in service) |
| 53 | SUDDEN PRESSURE RELAY |
| 54 | FIBER OPTIC EXTERNAL EXTENSIONS CABLE |
| 55 | VALVE SCHEDULE PLATE |
| 56 | CONNECTING VALVE FOR DISSOLVED GAS ANALYSYS MONITORING (Close in service) |
| 57 | FOUNDATION BOLT (M42) |
| 58 | CT JUNCTION BOX (HV.N) |
| 59 | DISSOLVED GAS ANALYSYS MONITORING |
| 60 | CONTROL CABINET WITH MONITORING SYSTEM |
| 61 | HIGH VOLTAGE LIGHTNING ARRESTER (OUT OF SUPPLY) |
| 62 | SMART COUNTER (OUT OF SUPPLY) |
| 63 | COUPLING UNIT |
| 64 | TANK PRESSURE MONITORING |
| 65 | BUSHING ADAPTER |

| NO. | NAME |
|-----|--|
| 1 | RADIATOR |
| 2 | RADIATOR VALVE (80A) (Open in service) |
| 3 | HIGH VOLTAGE BUSHING |
| 4 | EQUALIZING VALVE FOR OLTC (10A) (Close in service) |
| 5 | OIL FLOW RELAY |
| 6 | CONNECTING VALVE FOR OLTC CONSERVATOR (25A) (Open in service) |
| 7 | BUCHHOLZ RELAY |
| 8 | VACUUM VALVE (25A) (Open in service) |
| 9 | EQUALIZING VALVE FOR MAIN CONSERVATOR (10A) (Close in service) |
| 10 | CONSERVATOR FOR MAIN TANK |
| 11 | CONNECTING VALVE FOR MAIN CONSERVATOR (80A) (Open in service) |
| 12 | DIAL TYPE OIL LEVEL INDICATOR FOR MAIN CONSERVATOR |
| 13 | THERMOMETER WELL FOR WINDING (HV.) |
| 14 | THERMOMETER WELL FOR WINDING (LV.) |
| 15 | THERMOMETER WELL FOR OIL |
| 16 | FILTER VALVE FOR MAIN TANK (25A) (Close in service) |
| 17 | MOTOR DRIVE MCANISM |
| 18 | PRESSURE RELIEF DEVICE FOR MAIN TANK |
| 19 | RATING PLATE |
| 20 | CAUTION PLATE |

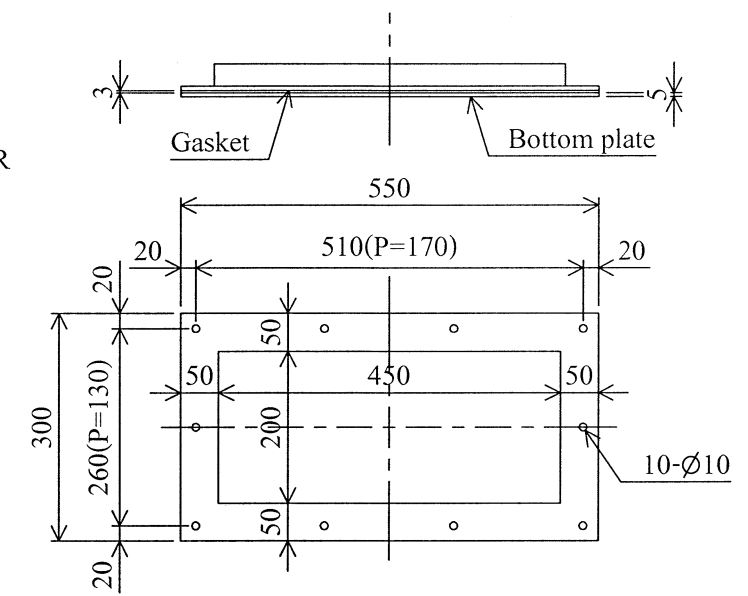


| DESCRIPTION | DATE | REV. |
|---|---------------------|-------------|
| | | ▲ |
| | | ▲ |
| | | ▲ |
| | | ▲ |
| TITLE | | |
| OUTLINE DRAWING OF ON-LOAD TAP CHANGING TRANSFORMER | | |
| DATE | 23 Aug.19 | SCALE 1/30 |
| DES'D | T.Charoen | PROCESS NO. |
| CHK'D | <i>H. Thongkham</i> | PP0653D |
| APP'D | <i>Y. Jant</i> | |
| DRAWING NO. | CS-200222 | |

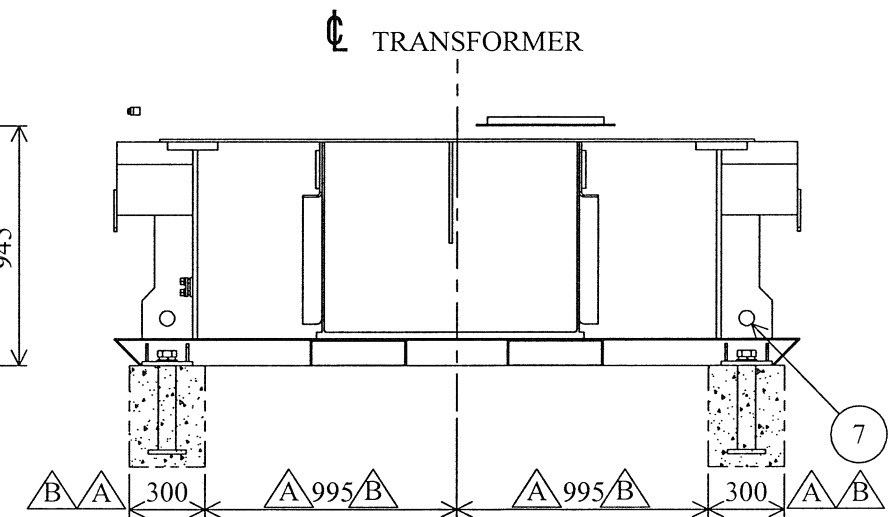
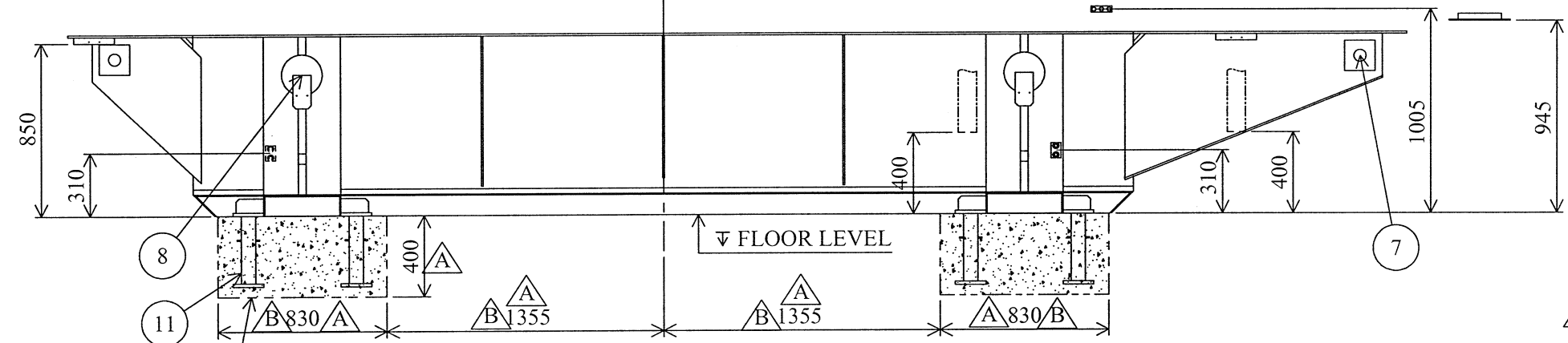




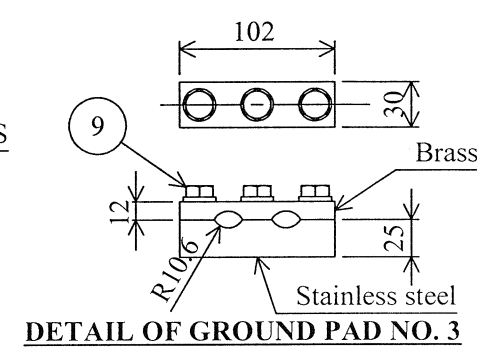
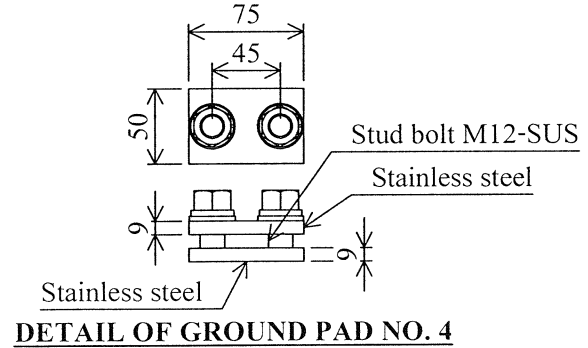
| NO. | NAME |
|-----|--|
| 1 | TRANSFORMER BASE |
| 2 | LOCAL CONTROL CABINET POSITION |
| 3 | GROUND PAD FOR HIGH VOLTAGE NEUTRAL (95-150 sqmm.) |
| 4 | GROUND PAD FOR MAIN TANK (95-150 sqmm.) |
| 5 | LOW VOLTAGE CABLE POSITION |
| 6 | JACKING POSITION |
| 7 | PULLING HOLE |
| 8 | LIFTING LUG |
| 9 | BOLT WITH SPRING LOCK WASHER (M12) |
| 10 | POSITION OF TUBE FOR PRESSURE RELIEF DEVICE |
| 11 | FOUNDATION BOLT (M42) |
| 12 | PIT OF FOUNDATION BOLT (OUT OF SCOPE) |



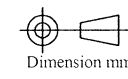
DETAIL OF BOTTOM PLATE FOR LOCAL CONTROL CABINET POSITION

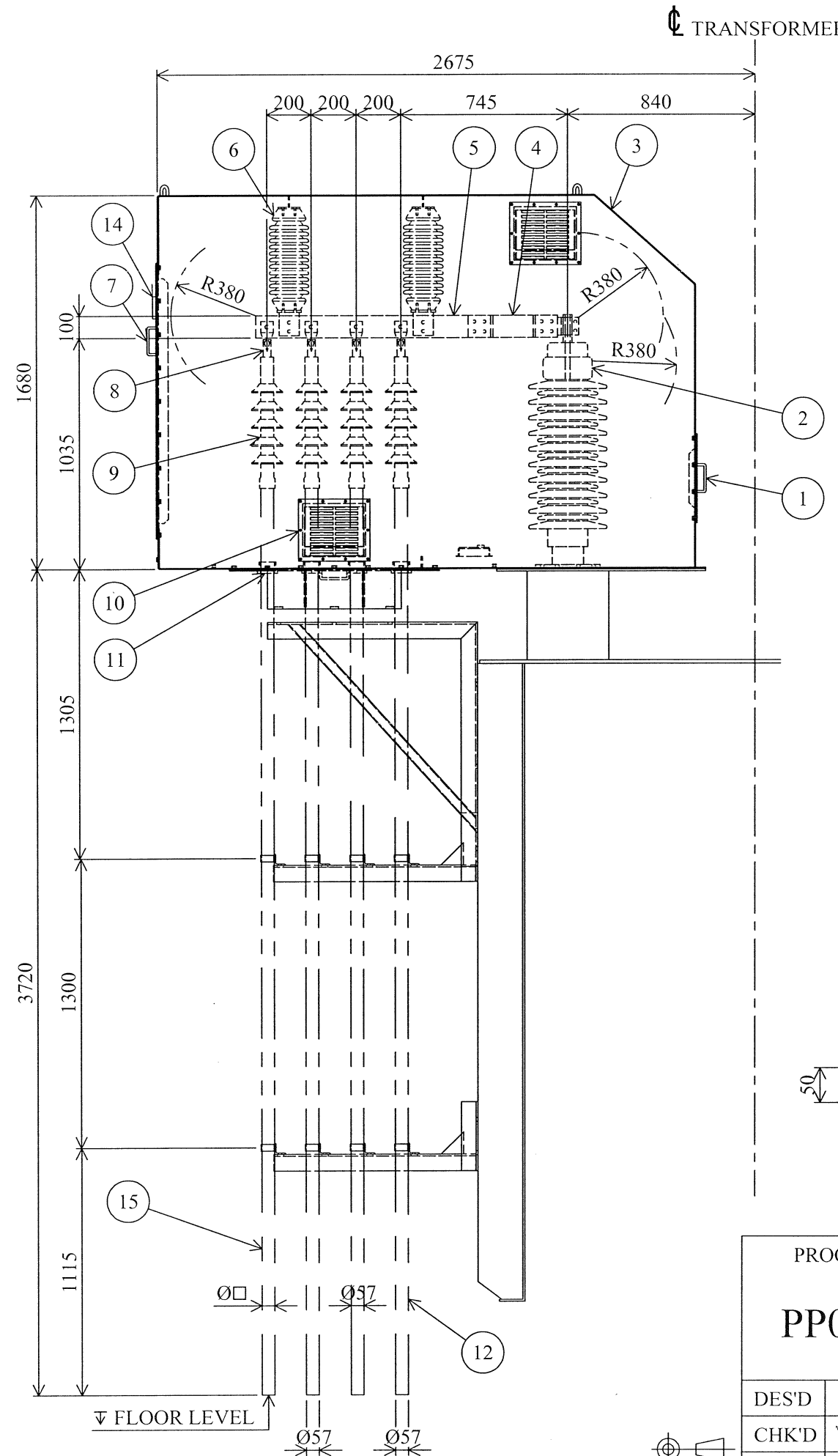
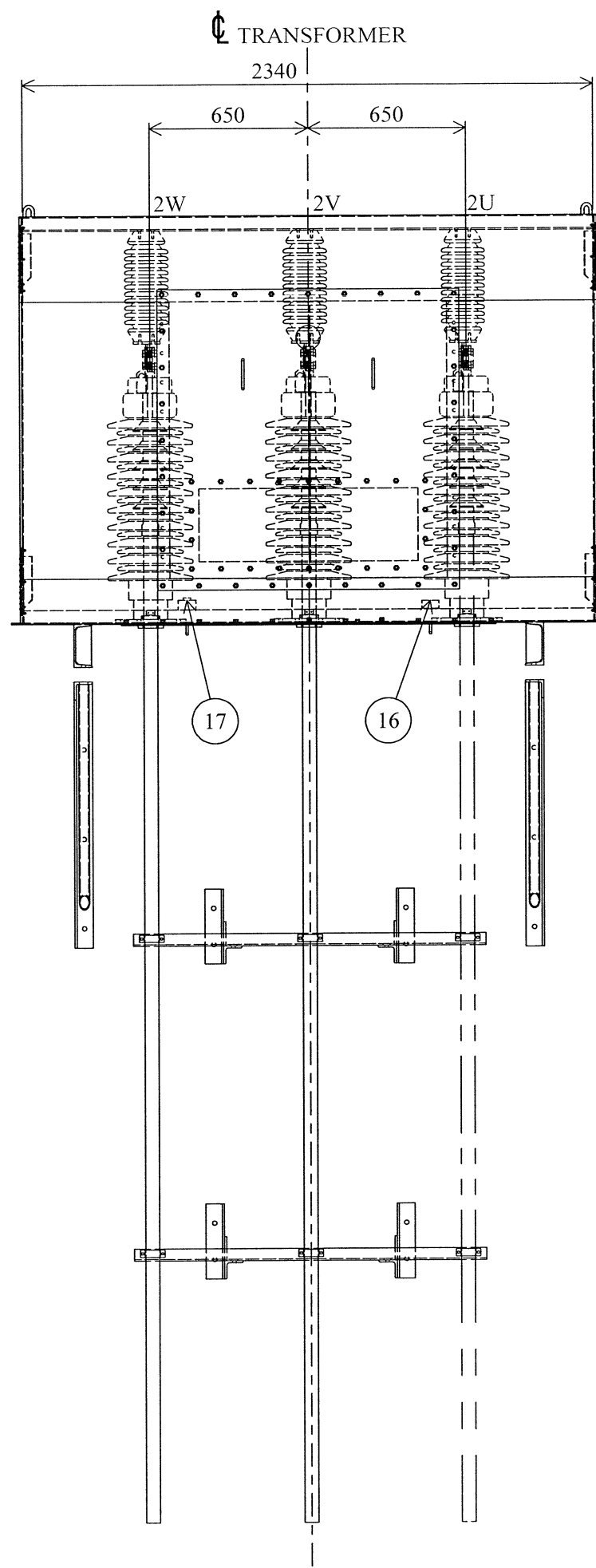


TOTAL MASS : 120,000 kg.
G : THE CENTER OF GRAVITY
(HIGH : 1800mm.)

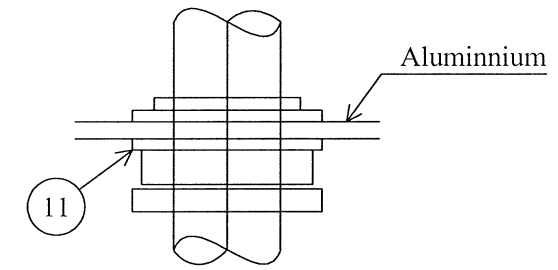


| PROCESS NO. | | TITLE | | DESCRIPTION | DATE | REV |
|-------------|-------------------|--------------------------|------------|-------------|---------|-----|
| PP0653D | | Foundation drawing | | | | △ |
| DES'D | T.Charoen | DATE 1 July.19 | SCALE 1/25 | △x 10 T.Ch | 20/8/19 | △ |
| CHK'D | <i>W. Thandee</i> | | | △x 19 T.Ch | 17/7/19 | △ |
| APP'D | <i>Y. Toth</i> | | | DRAWING NO. | | |
| | | DAIHEN ELECTRIC CO.,LTD. | | CS-303529B | | |

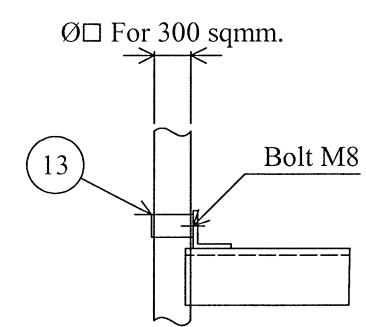




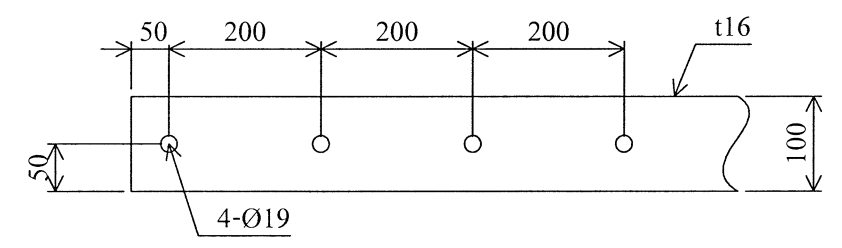
| NO. | NAME |
|-----|---|
| 1 | HAND HOLE |
| 2 | LOW VOLTAGE BUSHING |
| 3 | LOW VOLTAGE AIR FILLED CABLE BOX |
| 4 | FLEXIBLE CONDUCTOR |
| 5 | BUS BAR |
| 6 | SUPPORTING INSULATOR |
| 7 | MANHOLE |
| 8 | TERMINAL LUG (OUT OF SUPPLY) |
| 9 | TERMINATION KIT (OUT OF SUPPLY) |
| 10 | VENTILATION |
| 11 | CABLE GLAND |
| 12 | CABLE(630 sqmm.)(3 CABLE/PHASE) (OUT OF SUPPLY) |
| 13 | CABLE SADDLE (STAINLESS STEEL) |
| 14 | IR WINDOWS |
| 15 | CABLE(300 sqmm.)(1 CABLE/PHASE) (OUT OF SUPPLY) |
| 16 | HEATER |
| 17 | HYGROSTAT |



DETAIL OF CABLE GLAND



DETAIL OF CABLE AND CABLE SADDLE



DETAIL OF BUSBAR FOR TERMINAL LUG

| PROCESS NO. | | TITLE | | DESCRIPTION | DATE | REV |
|-------------|-------------------|-------------------------------------|------------|--------------------------|------|-----|
| PP0653D | | Low voltage air filled cable box | | | | △ |
| | | | | | | △ |
| | | | | | | △ |
| DES'D | T.Charoen | DATE 23 Aug.19 | SCALE 1/25 | | | △ |
| CHK'D | <i>W. Thandon</i> | | | DRAWING NO. CS-303534 | | |
| APP'D | <i>Y. Tsuba</i> | | | | | |
| | | DAIHEN ELECTRIC CO.,LTD. | | | | |

Dimension mm

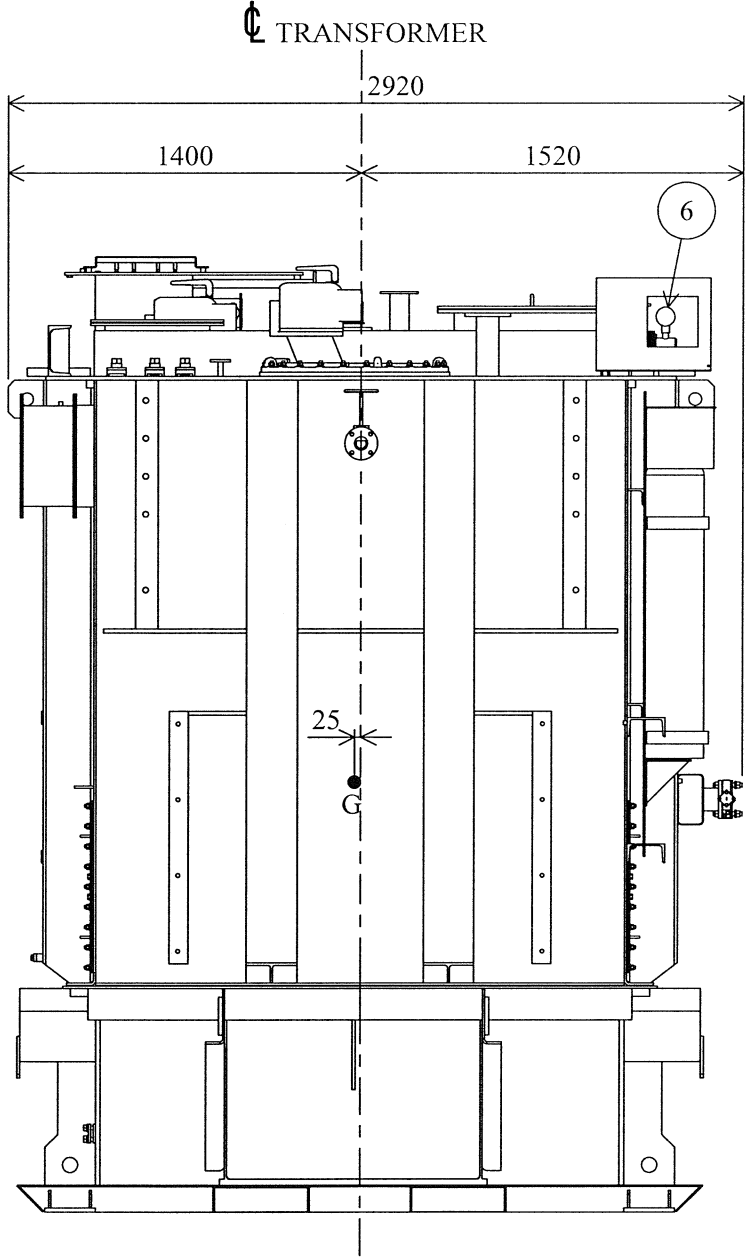
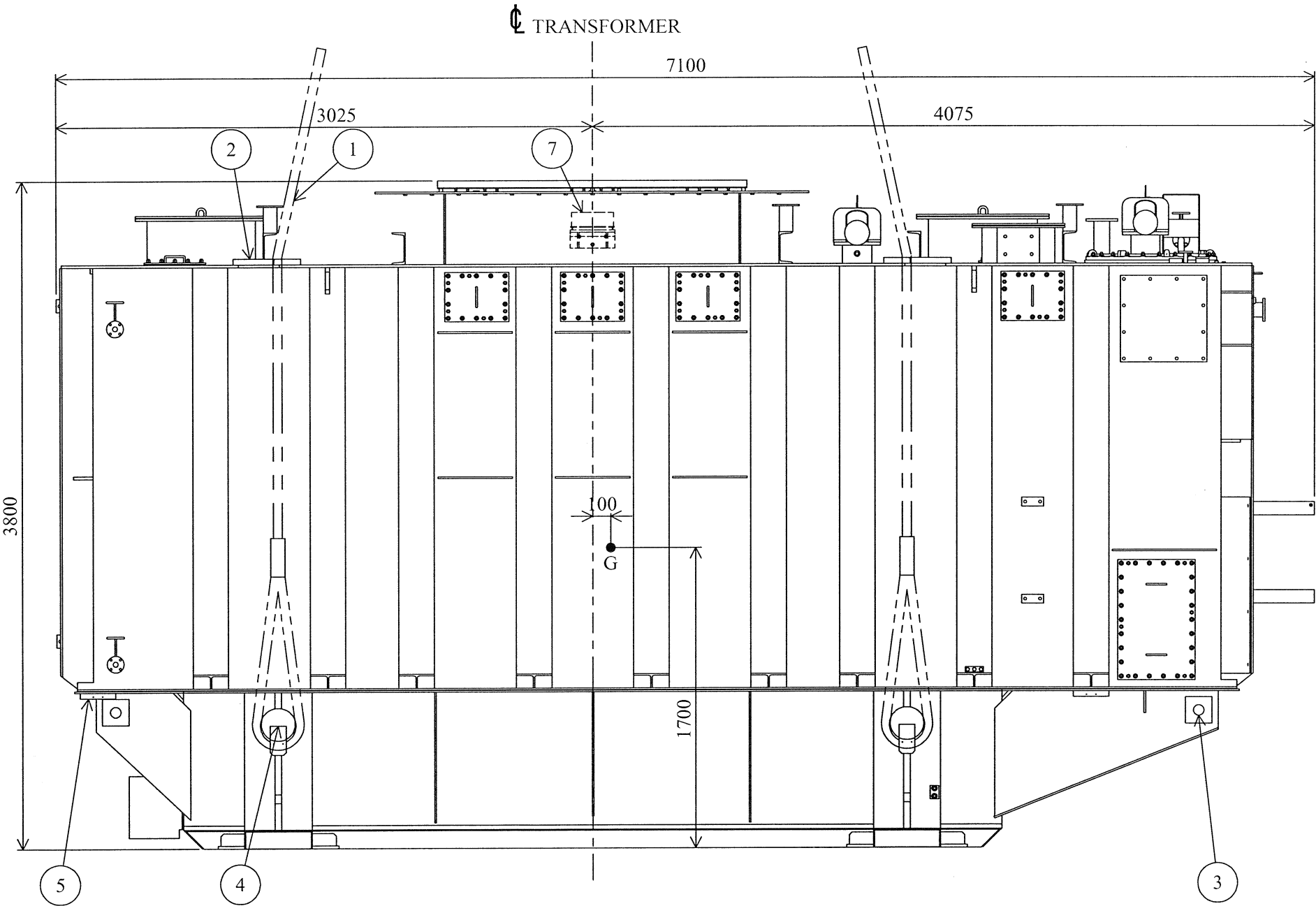
NOTE :

THE MAIN TANK IS FILLED NITROGEN GAS AT 0.024 MPa. (AT 30°C) DURING TRANSPORTATION

A SHIPING MASS 83,500 kg. INCLUDE OIL ----- L.

G : CENTER OF GRAVITY

| NO. | NAME |
|-----|---------------------------|
| 1 | WIRE ROPE (OUT OF SUPPLY) |
| 2 | ROPE GUIDE |
| 3 | PULLING HOLE |
| 4 | LIFTING LUG |
| 5 | JACKING BOSS |
| 6 | COMPOUND GAUGE |
| 7 | IMPACT RECORDER |



| PROCESS NO. | | TITLE | | DESCRIPTION | DATE | REV |
|-------------|--------------|------------------------------------|-----------|---------------------------|------|-----------|
| PP0653D | | Transportation drawing | | | | △ |
| | | | | | | △ |
| | | | | | | △ |
| DES'D | T.Charoen | DATE | 9 July.19 | SCALE | 1/30 | △x 1 T.Ch |
| CHK'D | H. Thanakorn | DAIHEN DAIHEN ELECTRIC CO.,LTD. | | DRAWING NO. CS-303535A | | △ |
| APP'D | J. Guban | | | | | △ |