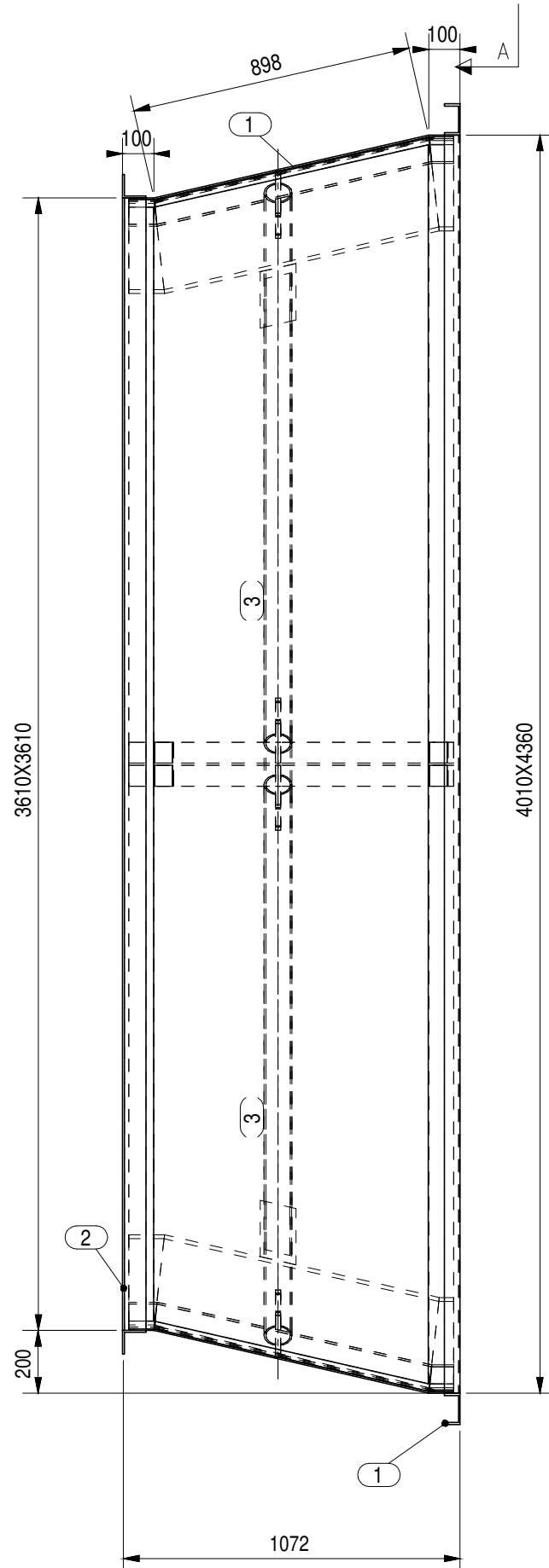
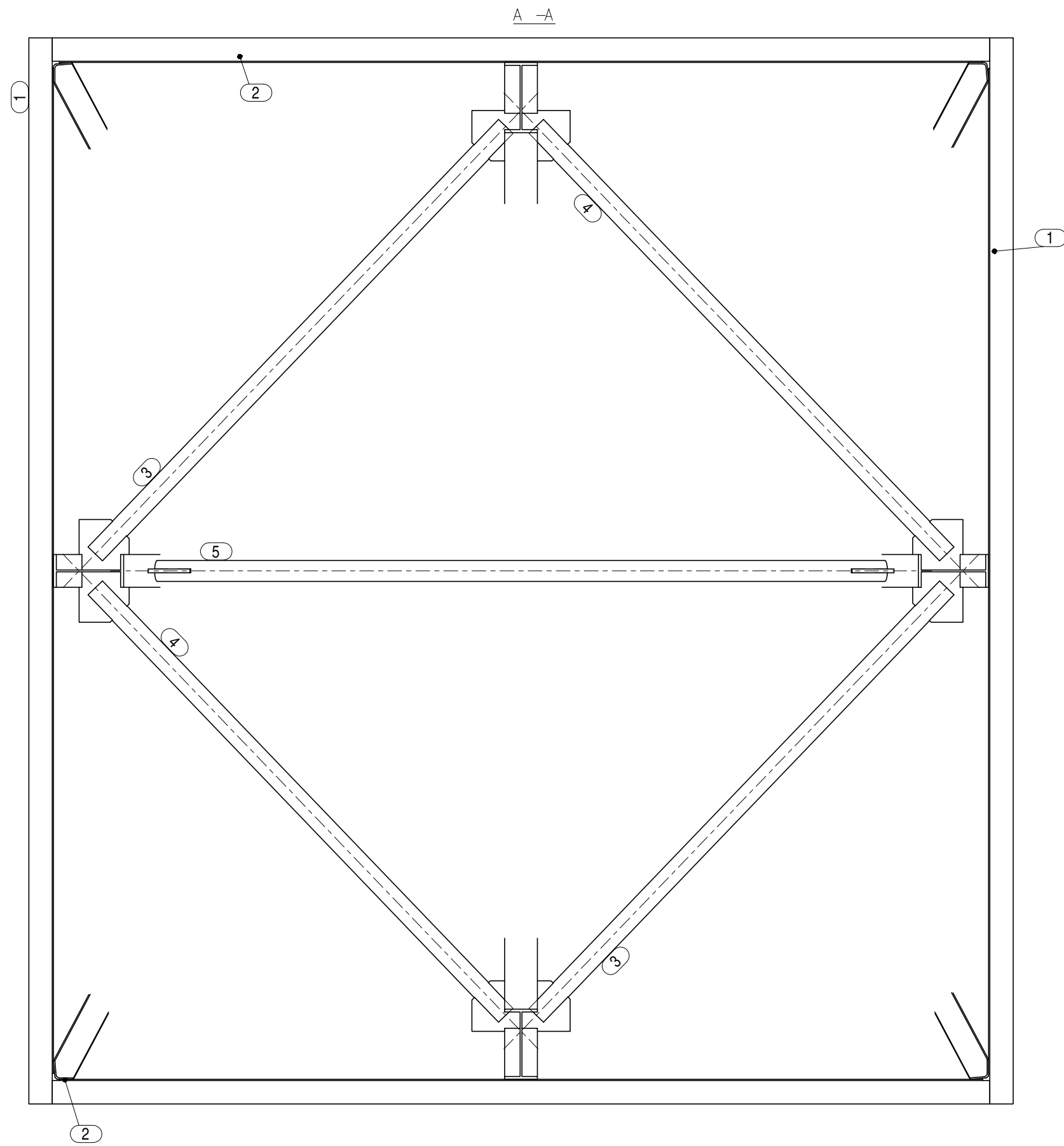
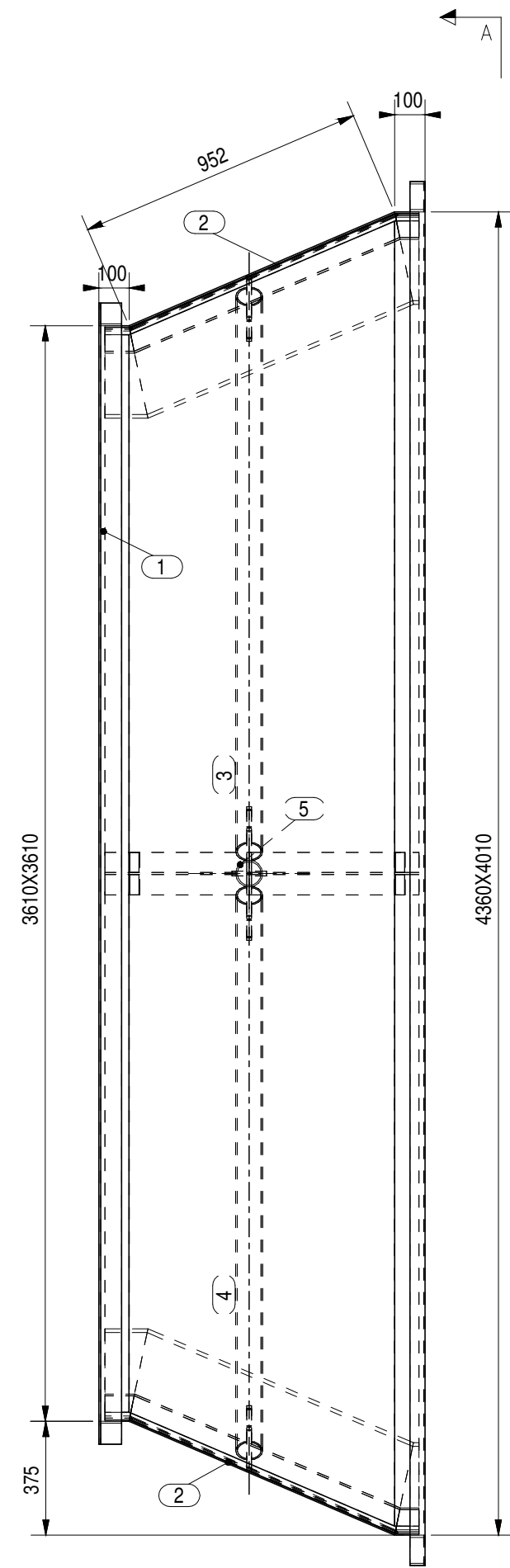


1-48-012-43795  
DRAWING NO.

DESPATCH TABLE

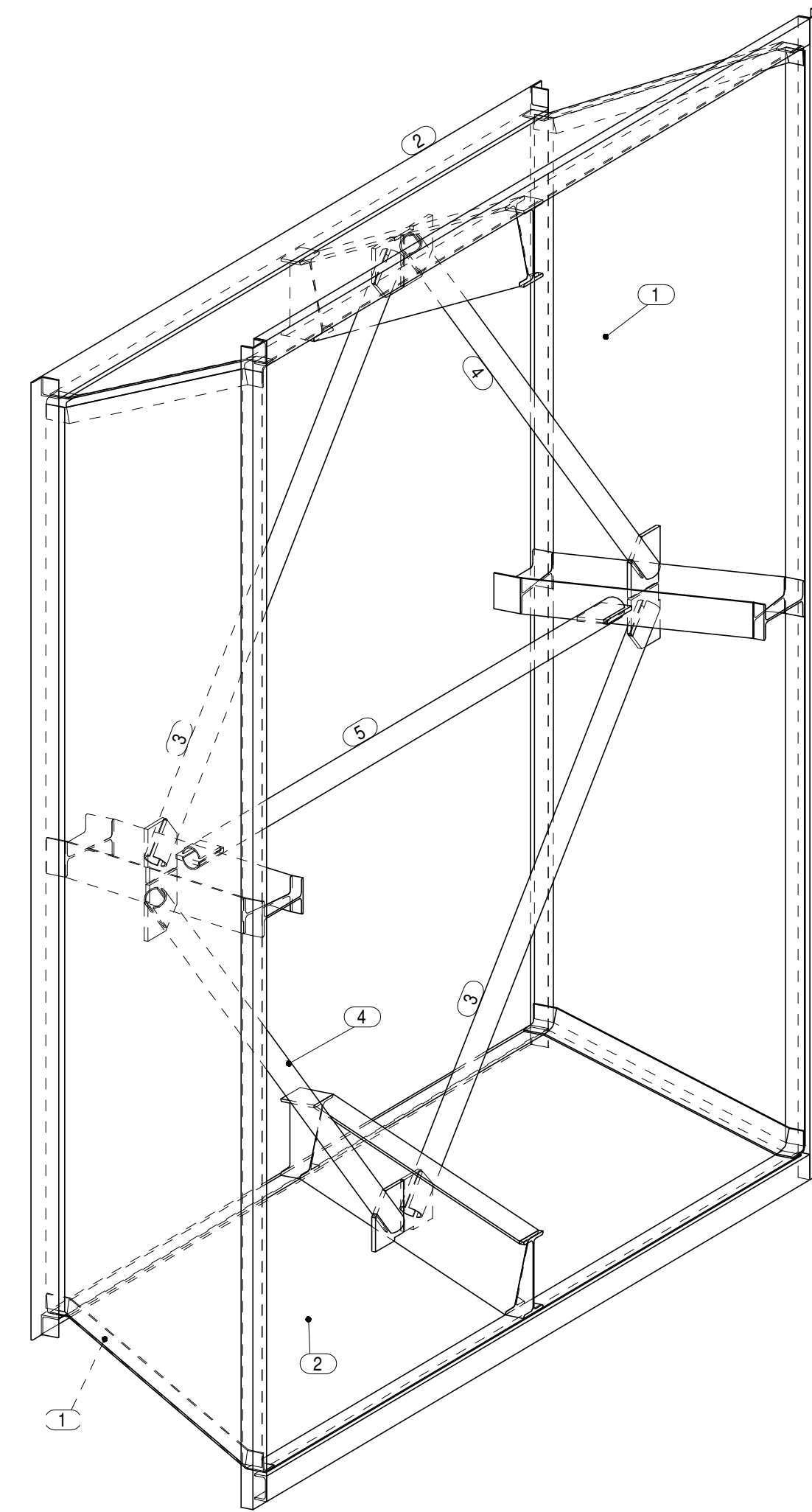
| DU NO.                                      | ITEM NO. | DESCRIPTION         | ITEM QTY. |
|---------------------------------------------|----------|---------------------|-----------|
| 1 DRG NO: 2-48-012-57689 DTY-2 WT/DU-300.18 |          |                     |           |
|                                             | PL74     | PLT 5;1058x4300.0   | 1         |
|                                             | A104     | PLATE 6; 150X1132.8 | 1         |
|                                             | A105     | PLATE 6; 150X1132.8 | 1         |
|                                             | B115     | ISMB300; 114        | 1         |
|                                             | B116     | ISMB300; 80         | 1         |
|                                             | B117     | ISMB300; 931        | 1         |
|                                             | FL30     | ISA75X75X6; 3760    | 1         |
|                                             | FL54     | ISMC100; 4560       | 1         |
| 2 DRG NO: 2-48-012-57690 DTY-2 WT/DU-283.48 |          |                     |           |
|                                             | PL75     | PLT 5;1112x3950.0   | 1         |
|                                             | B118     | ISMB300; 142        | 1         |
|                                             | B119     | ISMB300; 80         | 1         |
|                                             | B120     | ISMB300; 1014       | 1         |
|                                             | FL29     | ISA75X75X6; 3610    | 1         |
|                                             | FL53     | ISMC100; 4010       | 1         |
| 3 DRG NO: 3-48-012-85678 DTY-2 WT/DU-37.89  |          |                     |           |
|                                             | T25      | PIPE88.9*5.49; 2535 | 1         |
|                                             | GU34     | PLT 16;207x216      | 1         |
|                                             | GU37     | PLT 16;214x216      | 1         |
| 4 DRG NO: 3-48-012-85679 DTY-2 WT/DU-37.89  |          |                     |           |
|                                             | T25      | PIPE88.9*5.49; 2535 | 1         |
|                                             | GU35     | PLT 16;214x216      | 1         |
|                                             | GU36     | PLT 16;207x216      | 1         |
| 5 DRG NO: 3-48-012-85680 DTY-1 WT/DU-38.98  |          |                     |           |
|                                             | T26      | PIPE88.9*5.49; 3134 | 1         |
|                                             | GU38     | PLT 16;114x206      | 2         |



NOTES:

01. FOR GENERAL NOTES REFER PAGE NO.41 (REF.41) OF DUCT CONSTRUCTION MANUAL  
REF. 121 FOR CONSTRUCTION DETAIL

| FLANGE DETAILS |        |      |     |   |     |      |     |   |      |    |
|----------------|--------|------|-----|---|-----|------|-----|---|------|----|
| FLANGE NO.     | REF    | D    | X   | A | B   | W    | S   | E | F    | N  |
| FLANGE1        | REF109 | 3610 | 742 | 1 | 914 | 3610 | 742 | 1 | 914  | 20 |
| FLANGE1        | REF110 | 4010 | 942 | 1 | 914 | 4360 | 406 | 2 | 1828 | 22 |



| PART MARK LEGEND |          |
|------------------|----------|
| XXX              | XXX      |
| NEAR SIDE        | FAR SIDE |

| SUMMARY OF STEEL |               |          |
|------------------|---------------|----------|
| SR. NO.          | DESCRIPTION   | TOTAL WT |
| 1                | ISA75X75X6    | 100.20   |
| 2                | ISMB300       | 217.63   |
| 3                | ISMC100       | 163.86   |
| 4                | NEWCORPR95.08 | 32.46    |
| 5                | PIPE88.9*5.49 | 143.78   |
| 6                | PLT 5 THK     | 653.18   |
| 7                | PLT 16 THK    | 46.76    |
| TOTAL IN KGS.    |               | 1357.88  |

|                                                                                                                                                                                                      |                                                                                                     |                            |                         |                                |  |     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|----------------------------|-------------------------|--------------------------------|--|-----|
| CAUTION: The information on this drawing is the property of BHARAT HEAVY ELECTRICALS LTD. It must not be used, directly or indirectly in any form, without the prior written consent of the company. | TYPE OF PRODUCT<br>OR NAME OF<br>CUSTOMER/PROJECT                                                   |                            |                         |                                |  |     |
|                                                                                                                                                                                                      | <b>Bharat Heavy Electricals Ltd.</b><br>UNIT: HIGH PRESSURE BOILER PLANT<br>TIRUCHIRAPALLI - 620014 |                            |                         |                                |  |     |
|                                                                                                                                                                                                      | DRN<br>CHD                                                                                          | NAME<br>VEERA<br>KULA      | SIGNATURE               | DATE<br>29.03.2017             |  |     |
|                                                                                                                                                                                                      | APPD<br>RAMANA                                                                                      |                            |                         | 29.03.2017                     |  |     |
|                                                                                                                                                                                                      | REF TO ASSY / OLD DWG                                                                               |                            |                         |                                |  |     |
| DEPT<br>DUCT                                                                                                                                                                                         | ALL DIMENSIONS<br>ARE IN MM                                                                         | PROJECTION<br>SCALE<br>NTS | WEIGHT (Kg)<br>1357.877 | DRAWING NO :<br>1-48-012-43795 |  | REV |
| TITLE<br>TRANSITION DUCT                                                                                                                                                                             |                                                                                                     |                            |                         |                                |  |     |

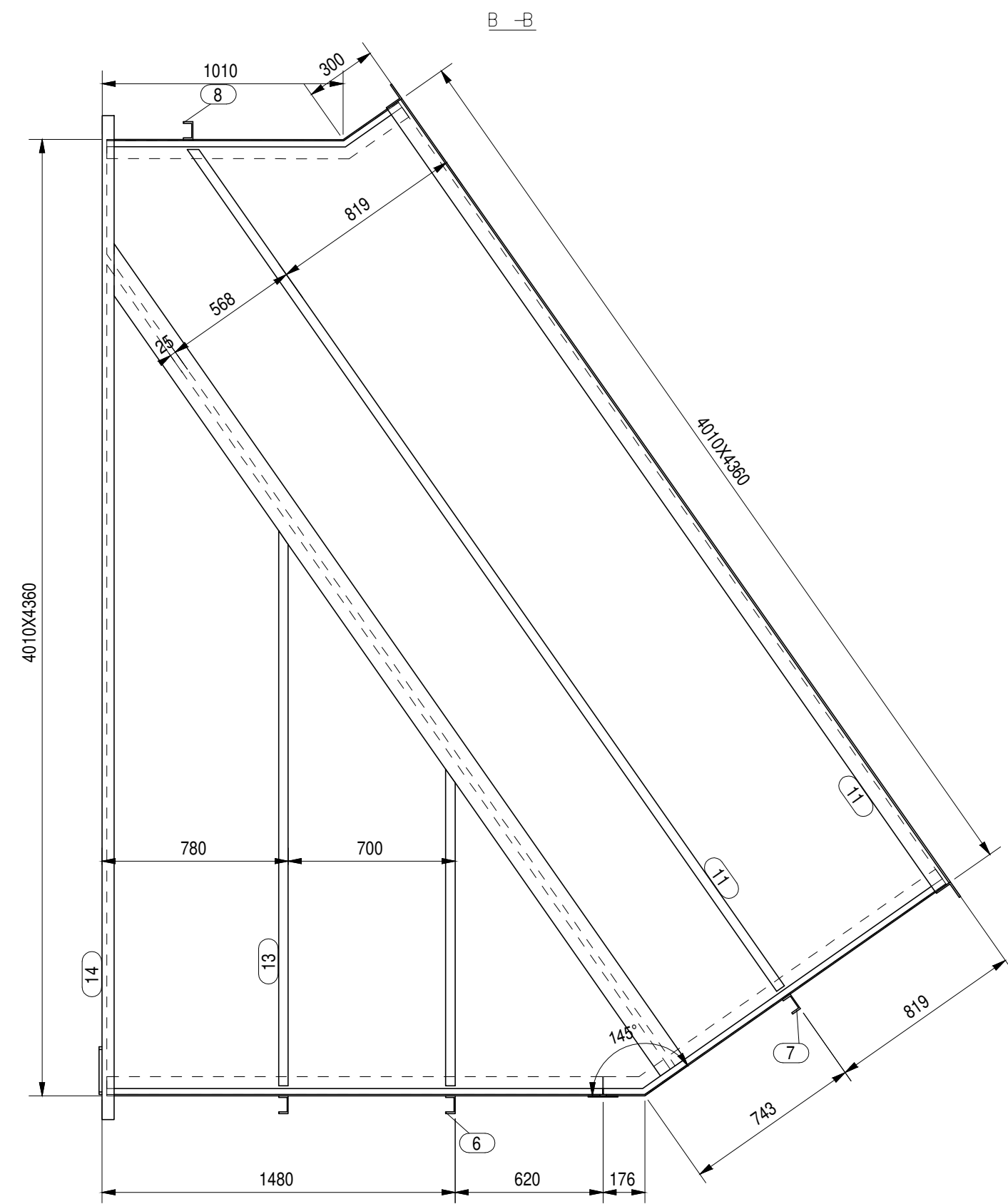
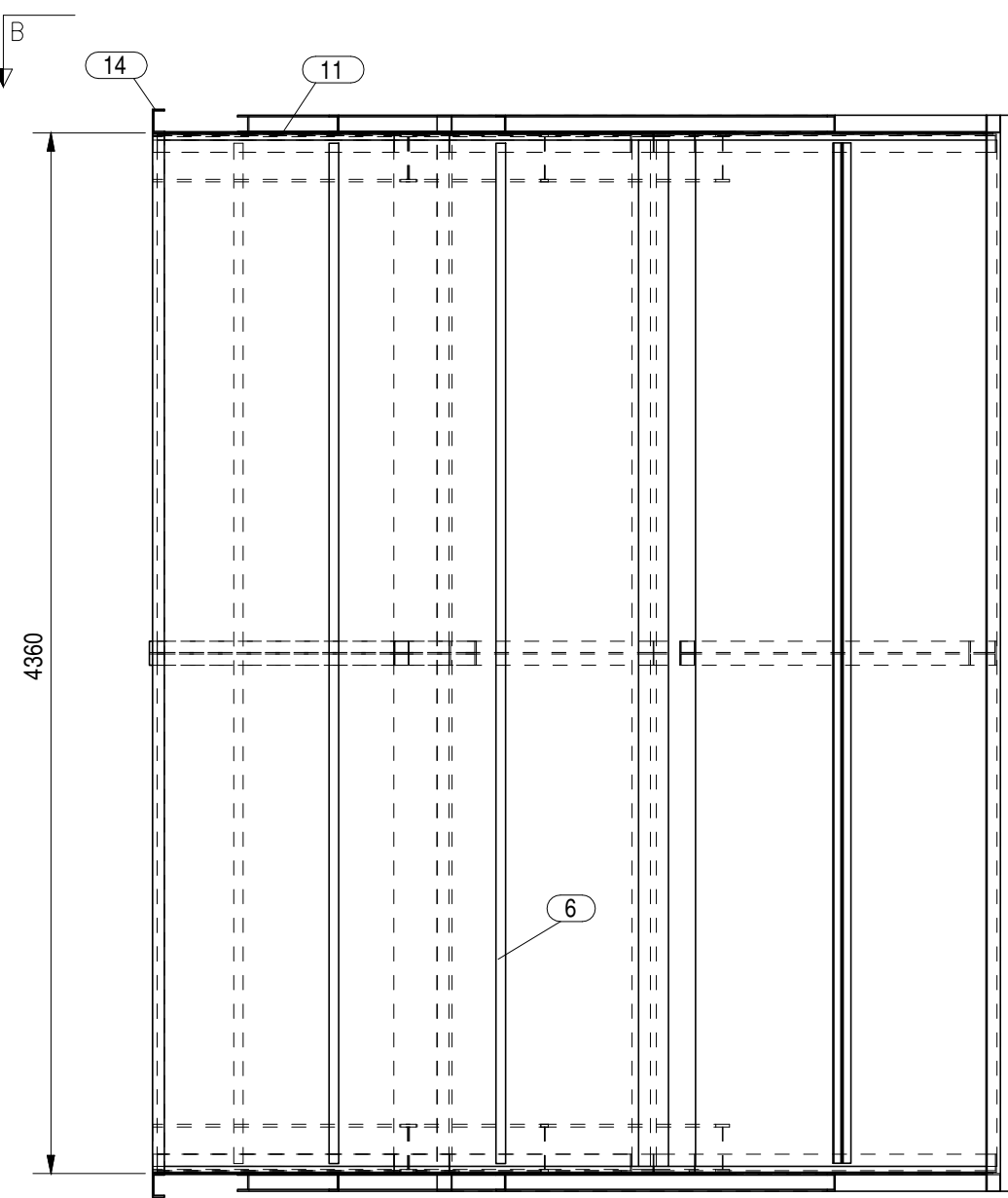
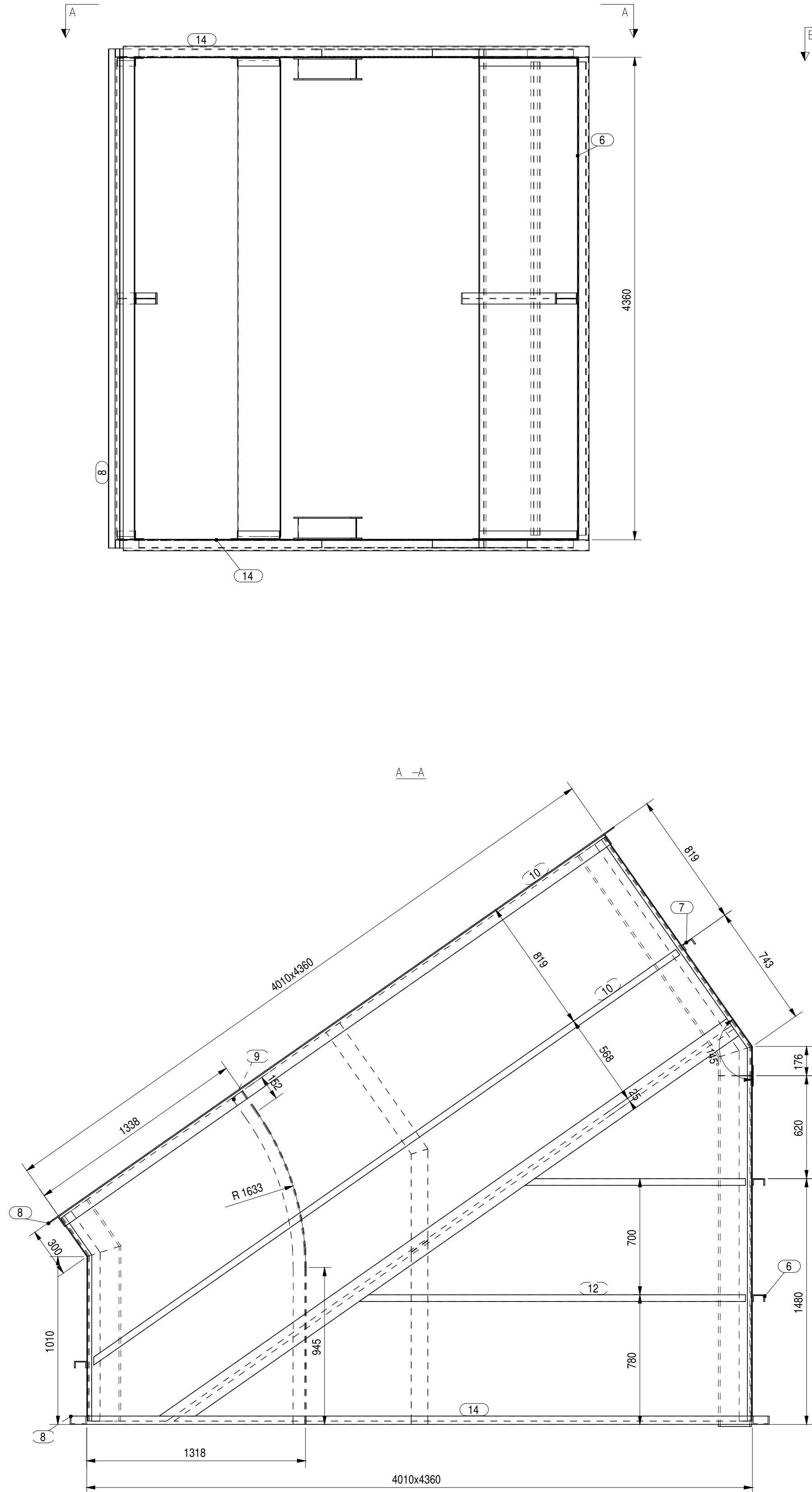
MODULE NAME: MODULE 1 MODULE QTY: 2

1-48-012-43796  
DRAWING NO.

DESPATCH TABLE

| DU NO.                                       | ITEM NO.        | DESCRIPTION | ITEM QTY. |
|----------------------------------------------|-----------------|-------------|-----------|
| 6 DRG NO: 3-48-012-B5681 DTY-1 WT/DU-533.58  |                 |             |           |
| C2                                           | SMC75; 4276     | 1           |           |
| A1                                           | SA75X75X6; 2079 | 2           |           |
| B3                                           | SMB200; 2111    | 1           |           |
| C2                                           | SMC75; 4276     | 1           |           |
| C55                                          | SMC100; 4360    | 1           |           |
| PL57                                         | PLT 5;2068x4300 | 1           |           |
| 7 DRG NO: 2-48-012-57691 DTY-1 WT/DU-436.80  |                 |             |           |
| FL3                                          | SA75X75X6; 4510 | 1           |           |
| A3                                           | SA75X75X6; 1714 | 1           |           |
| A4                                           | SA75X75X6; 1714 | 1           |           |
| B1                                           | SMB200; 1541    | 1           |           |
| B6                                           | SMB200; 173     | 1           |           |
| C2                                           | SMC75; 4276     | 1           |           |
| FJ17                                         | PLT 5;125x4300  | 1           |           |
| PL59                                         | PLT 5;1703x4300 | 1           |           |
| 8 DRG NO: 2-48-012-57692 DTY-1 WT/DU-370.61  |                 |             |           |
| FL3                                          | SA75X75X6; 4510 | 1           |           |
| A5                                           | SA75X75X6; 1289 | 1           |           |
| A6                                           | SA75X75X6; 1289 | 1           |           |
| B2                                           | SMB200; 345     | 1           |           |
| B4                                           | SMB200; 1055    | 1           |           |
| C2                                           | SMC75; 4276     | 1           |           |
| C55                                          | SMC100; 4360    | 1           |           |
| PL60                                         | PLT 5;1273x4300 | 1           |           |
| 9 DRG NO: 3-48-012-B5682 DTY-1 WT/DU-382.28  |                 |             |           |
| GV1                                          | PLT 5;2095x4300 | 1           |           |
| A22                                          | SA75X75X6; 2095 | 1           |           |
| A23                                          | SA75X75X6; 2095 | 1           |           |
| 10 DRG NO: 2-48-012-57693 DTY-1 WT/DU-322.47 |                 |             |           |
| PL13                                         | PLT 5;1367x4524 | 1           |           |
| B5                                           | SMB200; 926     | 1           |           |
| B8                                           | SMB200; 620     | 1           |           |
| C1                                           | SMC75; 4309     | 1           |           |
| FL4                                          | SA75X75X6; 4010 | 1           |           |
| 11 DRG NO: 2-48-012-57694 DTY-1 WT/DU-322.47 |                 |             |           |
| PL13                                         | PLT 5;1367x4524 | 1           |           |
| B5                                           | SMB200; 926     | 1           |           |
| B8                                           | SMB200; 620     | 1           |           |
| C1                                           | SMC75; 4309     | 1           |           |
| FL4                                          | SA75X75X6; 4010 | 1           |           |
| 12 DRG NO: 3-48-012-B5683 DTY-1 WT/DU-237.96 |                 |             |           |
| C4                                           | SMC75; 1328     | 1           |           |
| B7                                           | SMB200; 1106    | 1           |           |
| C3                                           | SMC75; 2327     | 1           |           |
| FJ1                                          | PLT 5;125x4173  | 1           |           |
| PL14                                         | PLT 5;1982x4118 | 1           |           |
| 13 DRG NO: 3-48-012-B5684 DTY-1 WT/DU-237.96 |                 |             |           |
| PL14                                         | PLT 5;1982x4118 | 1           |           |
| B7                                           | SMB200; 1106    | 1           |           |
| C3                                           | SMC75; 2327     | 1           |           |
| C4                                           | SMC75; 1328     | 1           |           |
| FJ1                                          | PLT 5;125x4173  | 1           |           |
| 14 DRG NO: DTY-2 WT/DU-40.25                 |                 |             |           |
| FL41                                         | SMC100; 4210    | 1           |           |

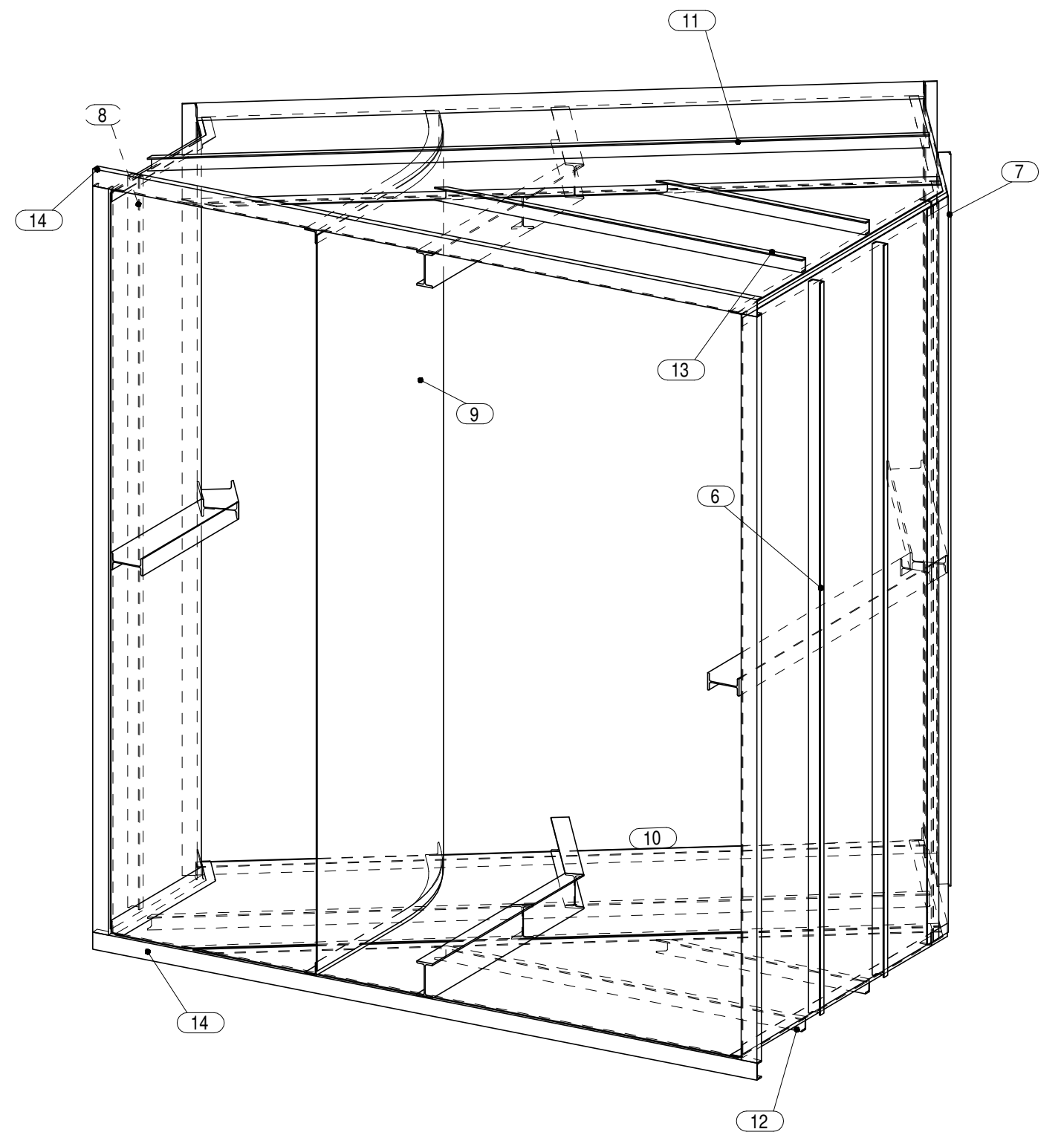
MODULE NAME: MODULE 2 MODULE QTY: 1



NOTES:  
01. FOR GENERAL NOTES REFER PAGE NO.41 (REF.41) OF DUCT CONSTRUCTION MANUAL  
REF. 121 FOR CONSTRUCTION DETAIL

FLANGE DETAILS

| FLANGE NO. | REF    | D    | X   | A | B    | W    | S   | E | F   | N  |
|------------|--------|------|-----|---|------|------|-----|---|-----|----|
| FLANGE1    | REF111 | 4360 | 406 | 2 | 1828 | 4010 | 942 | 1 | 914 | 22 |



ISOMETRIC

| PART MARK LEGEND |          |
|------------------|----------|
| XXX              | XXX      |
| NEAR SIDE        | FAR SIDE |

| SUMMARY OF STEEL |             |          |
|------------------|-------------|----------|
| SR. No.          | DESCRIPTION | TOTAL WT |
| 1                | ISA75X75X6  | 213.42   |
| 2                | ISMB200     | 267.45   |
| 3                | ISMC75      | 235.86   |
| 4                | ISMC100     | 163.86   |
| 5                | PLT 5 THK   | 2044.03  |
| TOTAL IN KGS.    |             | 2924.61  |

CAUTION: The information on this drawing is to be used directly or indirectly in any way detrimental to the company of BHARAT HEAVY ELECTRICALS LTD. It must not be used for any other purpose.

|                                                                                                  |                             |                                                                                                       |  |                                    |               |           |                    |
|--------------------------------------------------------------------------------------------------|-----------------------------|-------------------------------------------------------------------------------------------------------|--|------------------------------------|---------------|-----------|--------------------|
| TYPE OF PRODUCT<br>OR NAME OF<br>CUSTOMER/PROJECT                                                |                             | Bharat Heavy Electricals Ltd.<br>UNIT: HIGH PRESSURE BOILER PLANT<br>TIRUCHIRAPALLI - 620014          |  | DRN                                | NAME<br>VEERA | SIGNATURE | DATE<br>29.03.2017 |
| <br>355-053 |                             | <br>SCALE<br>NTS |  | CHD                                | KULA          |           | 29.03.2017         |
|                                                                                                  |                             |                                                                                                       |  | APPD                               | RAMANA        |           | 29.03.2017         |
| DEPT<br>DUCT<br>CODE<br>124                                                                      | ALL DIMENSIONS<br>ARE IN MM |                                                                                                       |  | REF TO ASSY / OLD DWG              |               |           |                    |
| TITLE<br><br>BEND DUCT                                                                           |                             |                                                                                                       |  | DRAWING NO :<br><br>1-48-012-43796 |               |           | REV                |

| DESPATCH TABLE                                 |          |                  |           |
|------------------------------------------------|----------|------------------|-----------|
| DU NO.                                         | ITEM NO. | DESCRIPTION      | ITEM QTY. |
| (15) DRG NO: 3-48-012-85686 BTY-1 WT/DU-533.58 |          |                  |           |
|                                                | C10      | SMC75; 4276      | 1         |
|                                                | A34      | SA75X75X6; 2079  | 2         |
|                                                | B38      | SMB200; 2111     | 1         |
|                                                | C10      | SMC75; 4276      | 1         |
|                                                | C56      | SMC100; 4360     | 1         |
|                                                | PL68     | PLT 5; 2068x4300 | 1         |
| (16) DRG NO: 3-48-012-57695 BTY-1 WT/DU-436.80 |          |                  |           |
|                                                | FL9      | SA75X75X6; 4510  | 1         |
|                                                | A35      | SA75X75X6; 1714  | 1         |
|                                                | A36      | SA75X75X6; 1714  | 1         |
|                                                | B36      | SMB200; 1541     | 1         |
|                                                | B41      | SMB200; 173      | 1         |
|                                                | C10      | SMC75; 4276      | 1         |
|                                                | FJ20     | PLT 5; 125x4300  | 1         |
|                                                | PL69     | PLT 5; 1703x4300 | 1         |
| (17) DRG NO: 3-48-012-57696 BTY-1 WT/DU-370.61 |          |                  |           |
|                                                | FL9      | SA75X75X6; 4510  | 1         |
|                                                | A37      | SA75X75X6; 1289  | 1         |
|                                                | A38      | SA75X75X6; 1289  | 1         |
|                                                | B37      | SMB200; 345      | 1         |
|                                                | B39      | SMB200; 1055     | 1         |
|                                                | C10      | SMC75; 4276      | 1         |
|                                                | C56      | SMC100; 4360     | 1         |
|                                                | PL70     | PLT 5; 1273x4300 | 1         |
| (18) DRG NO: 3-48-012-55686 BTY-1 WT/DU-382.28 |          |                  |           |
|                                                | GV3      | PLT 5; 2095x4300 | 1         |
|                                                | A39      | SA75X75X6; 2095  | 1         |
|                                                | A40      | SA75X75X6; 2095  | 1         |
| (19) DRG NO: 3-48-012-85687 BTY-1 WT/DU-322.47 |          |                  |           |
|                                                | PL19     | PLT 5; 1367x4524 | 1         |
|                                                | B40      | SMB200; 926      | 1         |
|                                                | B43      | SMB200; 620      | 1         |
|                                                | C12      | SMC75; 4309      | 1         |
|                                                | FL10     | SA75X75X6; 4010  | 1         |
| (20) DRG NO: 3-48-012-85688 BTY-1 WT/DU-322.47 |          |                  |           |
|                                                | PL19     | PLT 5; 1367x4524 | 1         |
|                                                | B40      | SMB200; 926      | 1         |
|                                                | B43      | SMB200; 620      | 1         |
|                                                | C12      | SMC75; 4309      | 1         |
|                                                | FL10     | SA75X75X6; 4010  | 1         |
| (21) DRG NO: 3-48-012-85689 BTY-1 WT/DU-237.96 |          |                  |           |
|                                                | PL20     | PLT 5; 1982x4118 | 1         |
|                                                | B42      | SMB200; 1106     | 1         |
|                                                | C11      | SMC75; 1328      | 1         |
|                                                | C13      | SMC75; 2327      | 1         |
|                                                | FJ6      | PLT 5; 125x4173  | 1         |
| (22) DRG NO: 3-48-012-85690 BTY-1 WT/DU-237.96 |          |                  |           |
|                                                | C11      | SMC75; 1328      | 1         |
|                                                | B42      | SMB200; 1106     | 1         |
|                                                | C13      | SMC75; 2327      | 1         |
|                                                | FJ6      | PLT 5; 125x4173  | 1         |
|                                                | PL20     | PLT 5; 1982x4118 | 1         |
| (23) DRG NO: 3-48-012-85691 BTY-2 WT/DU-40.25  |          |                  |           |
|                                                | FL42     | SMC100; 4210     | 1         |

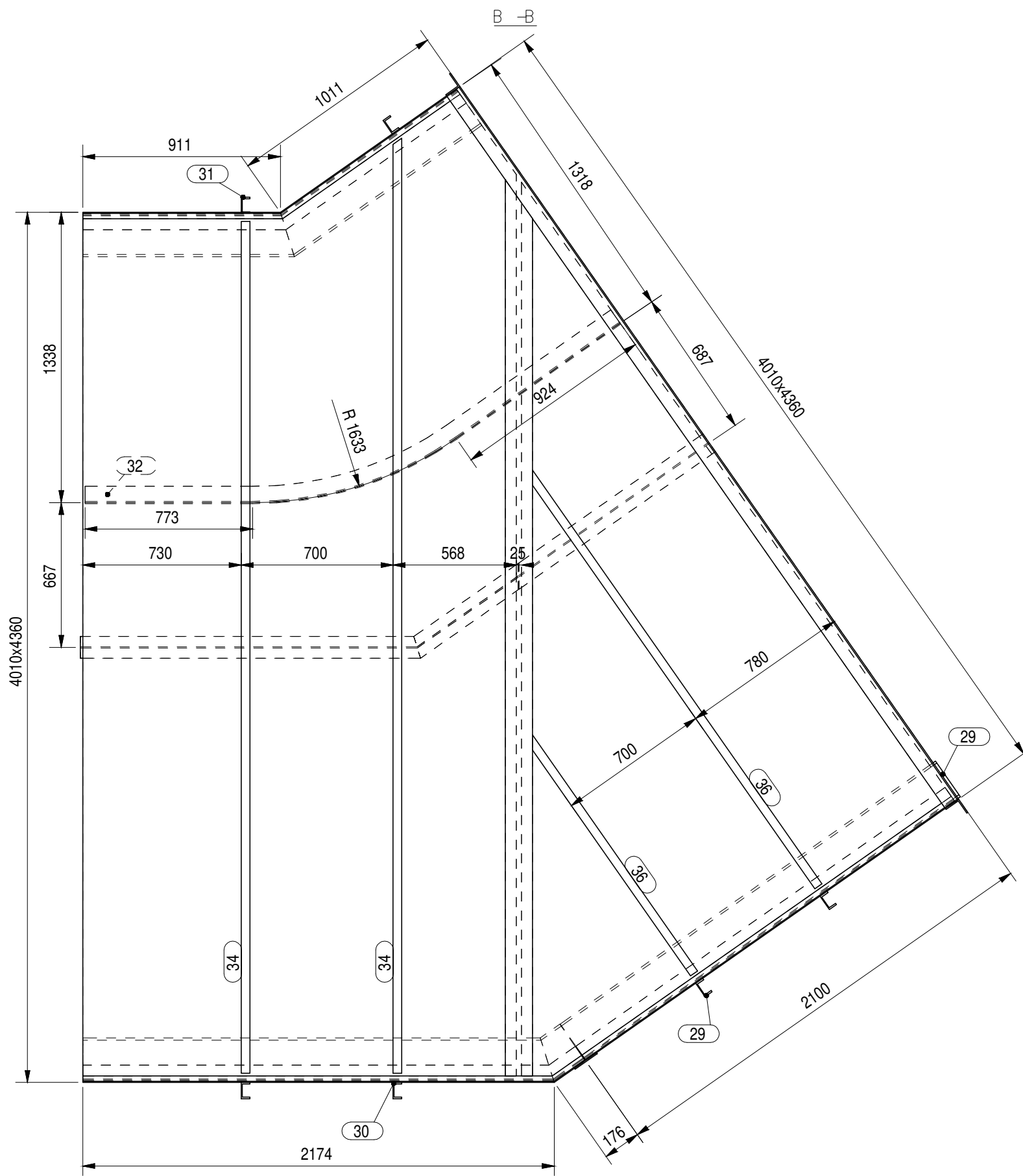
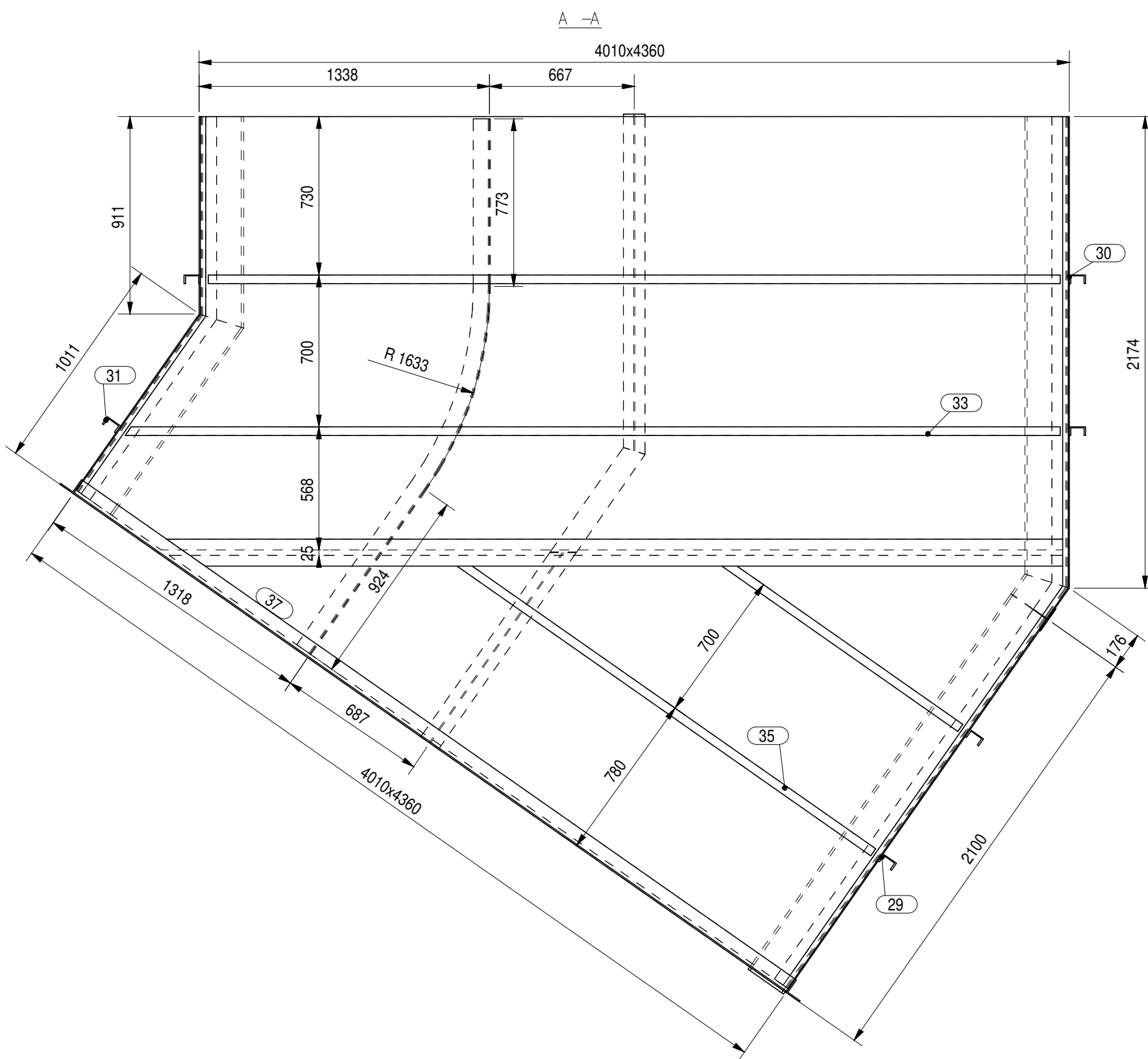
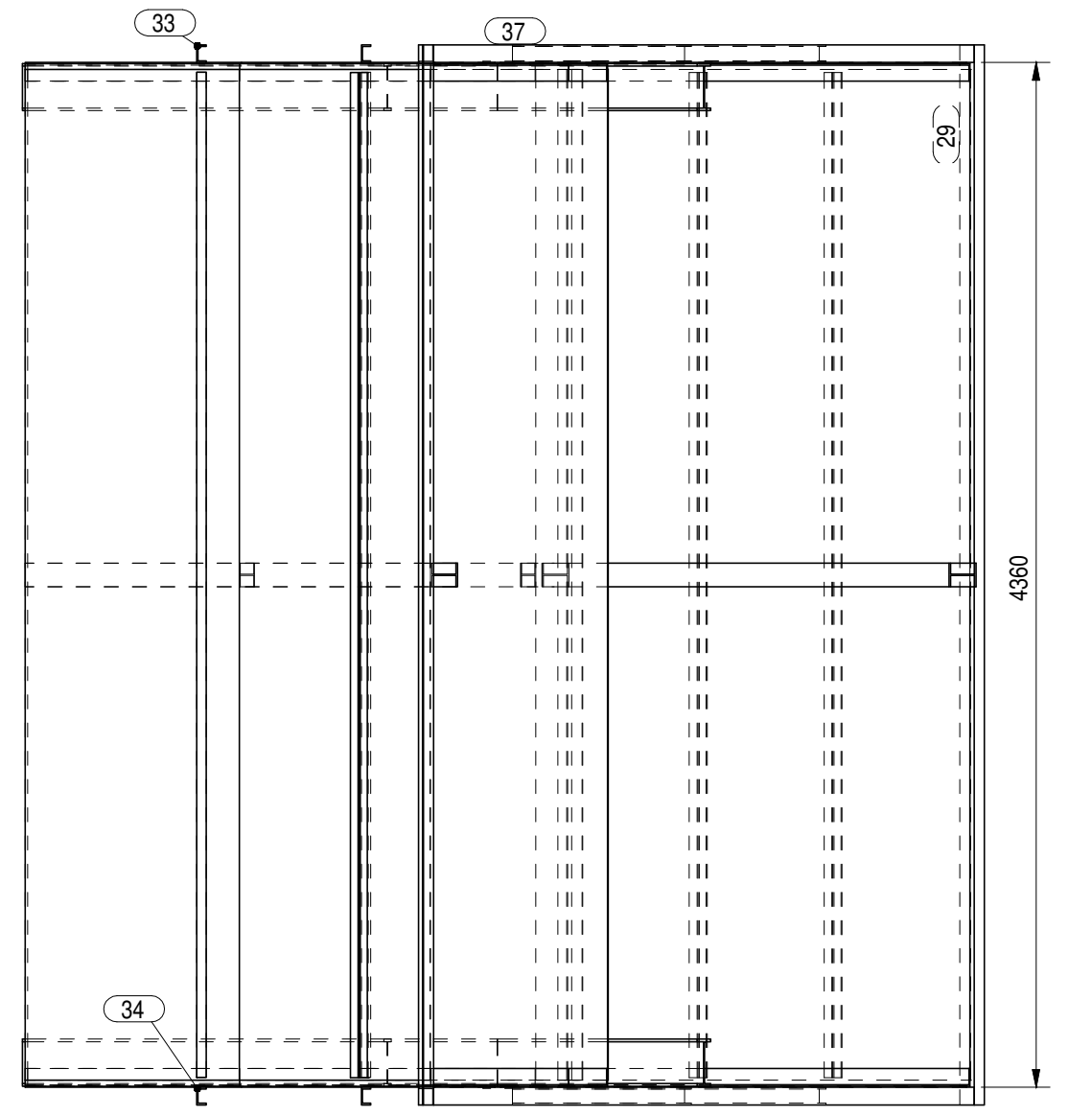
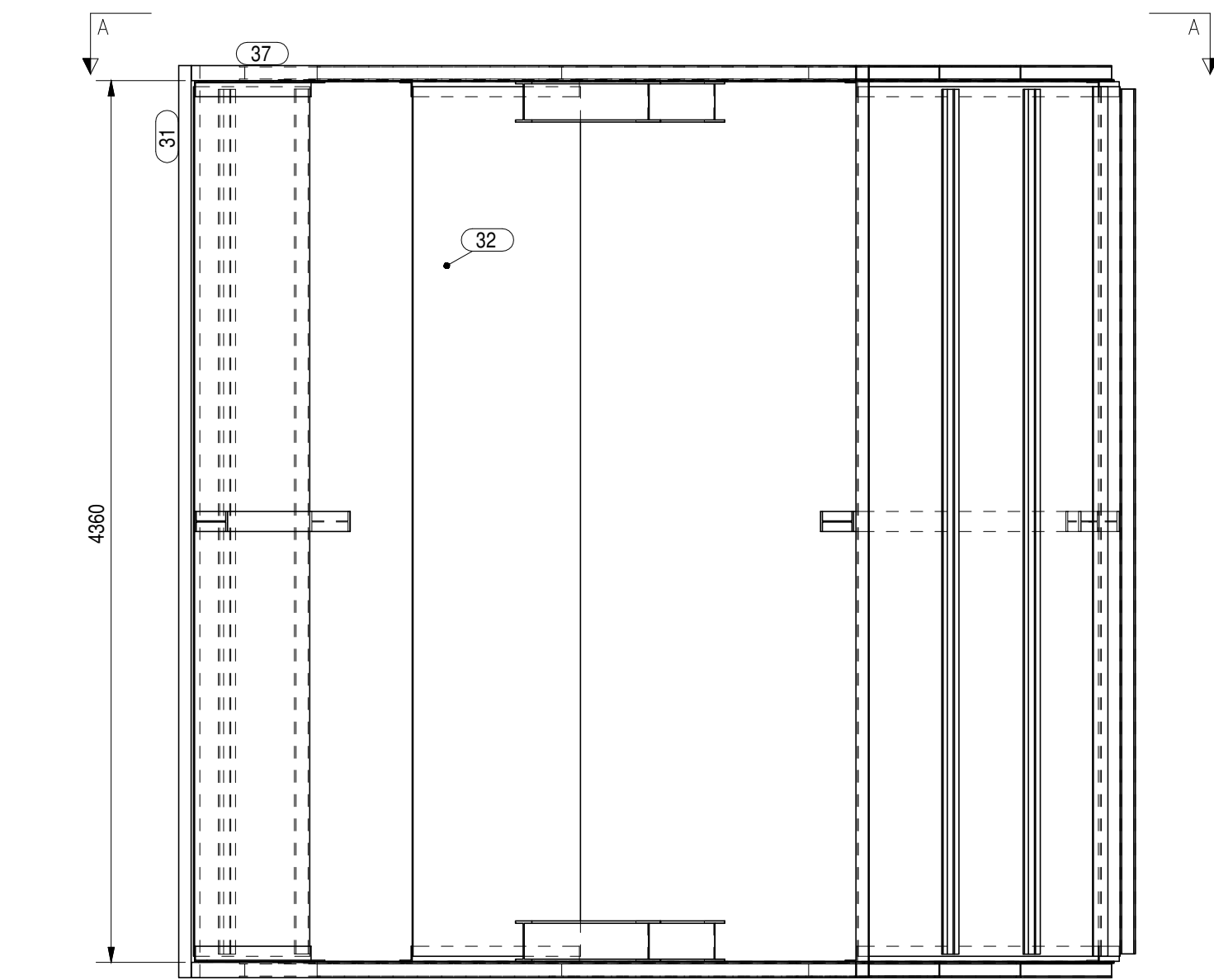
| DWG. NO.                     | ITEM NO. | DESCRIPTION      | ITEM QTY. |
|------------------------------|----------|------------------|-----------|
| (15) DRG. NO. 3-48-012-85686 | QTY-1    | WT/DU-533.58     |           |
|                              | C10      | SMC75; 4276      | 1         |
|                              | A34      | SA75X75X6; 2079  | 2         |
|                              | B38      | SMB200; 2111     | 1         |
|                              | C10      | SMC75; 4276      | 1         |
|                              | C56      | SMC100; 4360     | 1         |
|                              | PL68     | PLT 5; 2068X4300 | 1         |
| (16) DRG. NO. 2-48-012-57695 | QTY-1    | WT/DU-436.80     |           |
|                              | FL9      | SA75X75X6; 4510  | 1         |
|                              | A36      | SA75X75X6; 1714  | 1         |
|                              | A35      | SA75X75X6; 1714  | 1         |
|                              | B36      | SMB200; 1541     | 1         |
|                              | C41      | SMB200; 173      | 1         |
|                              | C10      | SMC75; 4276      | 1         |
|                              | FJ20     | PLT 5; 125X4300  | 1         |
|                              | PL69     | PLT 5; 1703X4300 | 1         |
| (17) DRG. NO. 2-48-012-57696 | QTY-1    | WT/DU-370.61     |           |
|                              | FL9      | SA75X75X6; 4510  | 1         |
|                              | A37      | SA75X75X6; 1289  | 1         |
|                              | A38      | SA75X75X6; 1289  | 1         |
|                              | B39      | SMB200; 345      | 1         |
|                              | B39      | SMB200; 1055     | 1         |
|                              | C10      | SMC75; 4276      | 1         |
|                              | C56      | SMC100; 4360     | 1         |
|                              | PL70     | PLT 5; 1273X4300 | 1         |
| (18) DRG. NO. 3-48-012-85686 | QTY-1    | WT/DU-382.28     |           |
|                              | CV3      | PLT 5; 2095X4300 | 1         |
|                              | A39      | SA75X75X6; 2095  | 1         |
|                              | A40      | SA75X75X6; 2095  | 1         |
| (19) DRG. NO. 3-48-012-85685 | QTY-1    | WT/DU-322.47     |           |
|                              | PL19     | PLT 5; 1367X4524 | 1         |
|                              | B43      | SMB200; 926      | 1         |
|                              | B43      | SMB200; 620      | 1         |
|                              | C12      | SMC75; 4309      | 1         |
|                              | FL10     | SA75X75X6; 4010  | 1         |
| (20) DRG. NO. 3-48-012-85686 | QTY-1    | WT/DU-322.47     |           |
|                              | PL19     | PLT 5; 1367X4524 | 1         |
|                              | B43      | SMB200; 926      | 1         |
|                              | B43      | SMB200; 620      | 1         |
|                              | C12      | SMC75; 4309      | 1         |
|                              | FL10     | SA75X75X6; 4010  | 1         |
| (21) DRG. NO. 3-48-012-85685 | QTY-1    | WT/DU-237.96     |           |
|                              | PL20     | PLT 5; 1982X4118 | 1         |
|                              | B42      | SMB200; 1106     | 1         |
|                              | C11      | SMC75; 1328      | 1         |
|                              | C13      | SMC75; 2327      | 1         |
|                              | FJ6      | PLT 5; 125X4173  | 1         |
| (22) DRG. NO. 3-48-012-85690 | QTY-1    | WT/DU-237.96     |           |
|                              | C11      | SMC75; 1328      | 1         |
|                              | B42      | SMB200; 1106     | 1         |
|                              | C13      | SMC75; 2327      | 1         |
|                              | FJ6      | PLT 5; 125X4173  | 1         |
|                              | PL20     | PLT 5; 1982X4118 | 1         |
| (23) DRG. NO. 3-48-012-85686 | QTY-2    | WT/DU-40.25      |           |
|                              | FL42     | SMC100; 4210     | 1         |

86554-710-43798  
DRAWING NO.

DESPATCH TABLE

| DU NO.                                       | ITEM NO.        | DESCRIPTION | ITEM QTY. |
|----------------------------------------------|-----------------|-------------|-----------|
| 29 DRG NO: 2-48-012-B5696 DTY-1 WT/DU-543.65 |                 |             |           |
| C6                                           | SMC75; 4276     | 1           |           |
| A2                                           | SA75X75X6; 2079 | 2           |           |
| B11                                          | SMB200; 2111    | 1           |           |
| C6                                           | SMC75; 4276     | 1           |           |
| FJ18                                         | PLT 5;125x4300  | 1           |           |
| FL2                                          | SA75X75X6; 4510 | 1           |           |
| PL58                                         | PLT 5;2068x4300 | 1           |           |
| 30 DRG NO: 2-48-012-57697 DTY-1 WT/DU-546.68 |                 |             |           |
| C6                                           | SMC75; 4276     | 1           |           |
| A8                                           | SA75X75X6; 2345 | 1           |           |
| A9                                           | SA75X75X6; 2345 | 1           |           |
| B9                                           | SMB200; 2172    | 1           |           |
| B13                                          | SMB200; 173     | 1           |           |
| C6                                           | SMC75; 4276     | 1           |           |
| PL61                                         | PLT 5;2334x4300 | 1           |           |
| 31 DRG NO: 2-48-012-57698 DTY-1 WT/DU-490.56 |                 |             |           |
| C6                                           | SMC75; 4276     | 1           |           |
| A7                                           | SA75X75X6; 1920 | 1           |           |
| A10                                          | SA75X75X6; 1920 | 1           |           |
| B10                                          | SMB200; 976     | 1           |           |
| B12                                          | SMB200; 1055    | 1           |           |
| C6                                           | SMC75; 4276     | 1           |           |
| FL2                                          | SA75X75X6; 4510 | 1           |           |
| PL62                                         | PLT 5;1904x4300 | 1           |           |
| 32 DRG NO: 2-48-012-B5697 DTY-1 WT/DU-491.79 |                 |             |           |
| GV2                                          | PLT 5;2696x4300 | 1           |           |
| A24                                          | SA75X75X6; 2696 | 1           |           |
| A25                                          | SA75X75X6; 2696 | 1           |           |
| 33 DRG NO: 2-48-012-57699 DTY-1 WT/DU-437.37 |                 |             |           |
| PL15                                         | PLT 5;1998x4524 | 1           |           |
| B14                                          | SMB200; 1568    | 1           |           |
| B16                                          | SMB200; 620     | 1           |           |
| C5                                           | SMC75; 4309     | 1           |           |
| C7                                           | SMC75; 3926     | 1           |           |
| 34 DRG NO: 2-48-012-57700 DTY-1 WT/DU-437.37 |                 |             |           |
| PL16                                         | PLT 5;1998x4524 | 1           |           |
| B14                                          | SMB200; 1568    | 1           |           |
| B16                                          | SMB200; 620     | 1           |           |
| C5                                           | SMC75; 4309     | 1           |           |
| C7                                           | SMC75; 3926     | 1           |           |
| 35 DRG NO: 2-48-012-B5698 DTY-1 WT/DU-237.75 |                 |             |           |
| PL17                                         | PLT 5;1982x4118 | 1           |           |
| B15                                          | SMB200; 1106    | 1           |           |
| C8                                           | SMC75; 2327     | 1           |           |
| C9                                           | SMC75; 1328     | 1           |           |
| FJ27                                         | PLT 5;125x4130  | 1           |           |
| 36 DRG NO: 2-48-012-B5699 DTY-1 WT/DU-237.75 |                 |             |           |
| PL18                                         | PLT 5;1982x4118 | 1           |           |
| B15                                          | SMB200; 1106    | 1           |           |
| C8                                           | SMC75; 2327     | 1           |           |
| C9                                           | SMC75; 1328     | 1           |           |
| FJ2                                          | PLT 5;125x4130  | 1           |           |
| 37 DRG NO: DTY-2 WT/DU-27.26                 |                 |             |           |
| FL1                                          | SA75X75X6; 4010 | 1           |           |

MODULE NAME: MODULE 5 MODULE QTY: 1

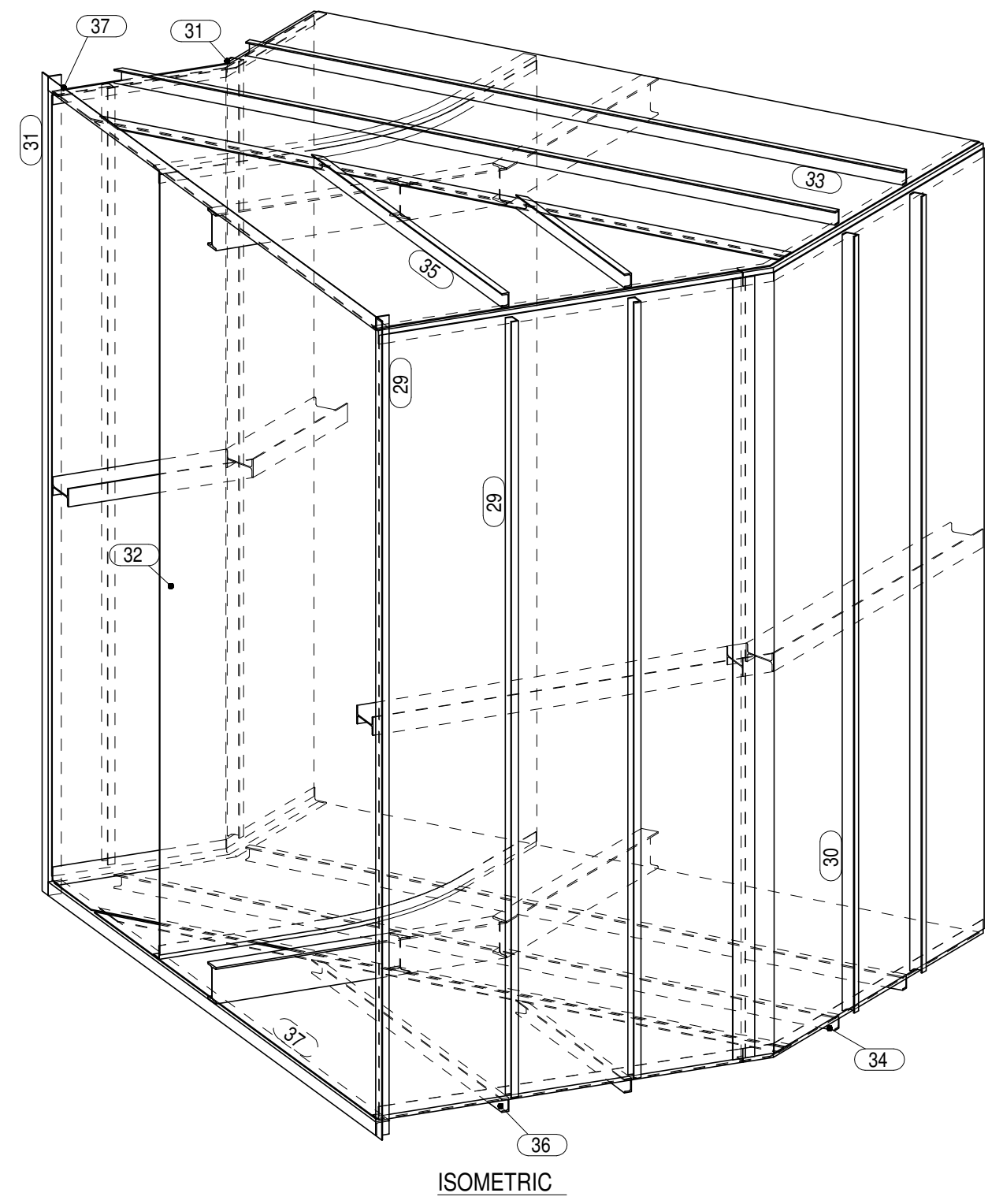


NOTES:

01. FOR GENERAL NOTES REFER PAGE NO.41 (REF.41) OF DUCT CONSTRUCTION MANUAL  
REF. 121 FOR CONSTRUCTION DETAIL

FLANGE DETAILS

| FLANGE NO. | REF    | D    | X   | A | B    | W    | S   | E | F   | N  |
|------------|--------|------|-----|---|------|------|-----|---|-----|----|
| FLANGE1    | REF111 | 4360 | 406 | 2 | 1828 | 4010 | 942 | 1 | 914 | 22 |



| PART MARK LEGEND |          |
|------------------|----------|
| XXX              | XXX      |
| NEAR SIDE        | FAR SIDE |

| SUMMARY OF STEEL |             |          |
|------------------|-------------|----------|
| SR. No.          | DESCRIPTION | TOTAL WT |
| 1                | ISA75X75X6  | 238.74   |
| 2                | ISMB200     | 332.12   |
| 3                | ISMC75      | 352.98   |
| 4                | PLT 5 THK   | 2553.61  |
| TOTAL IN KGS.    |             | 3477.45  |

|                                                             |                                |                            |                         |                       |               |           |                    |
|-------------------------------------------------------------|--------------------------------|----------------------------|-------------------------|-----------------------|---------------|-----------|--------------------|
| TYPE OF PRODUCT<br>OR NAME OF<br>CUSTOMER/PROJECT           |                                |                            |                         | DRN                   | NAME<br>VEERA | SIGNATURE | DATE<br>29.03.2017 |
| Bharat Heavy Electricals Ltd.                               |                                |                            |                         | CHD                   | KULA          |           | 29.03.2017         |
| UNIT: HIGH PRESSURE BOILER PLANT<br>TIRUCHIRAPALLI - 620014 |                                |                            |                         | APPD                  | RAMANA        |           | 29.03.2017         |
| DEPT<br>DUCT                                                | ALL DIMENSIONS<br>ARE IN MM    | PROJECTION<br>SCALE<br>NTS | WEIGHT (Kg)<br>3477.447 | REF TO ASSY / OLD DWG |               |           |                    |
| CODE<br>124                                                 | DRAWING NO :<br>1-48-012-43798 |                            |                         |                       |               |           | REV                |
| BEND DUCT                                                   |                                |                            |                         |                       |               |           |                    |

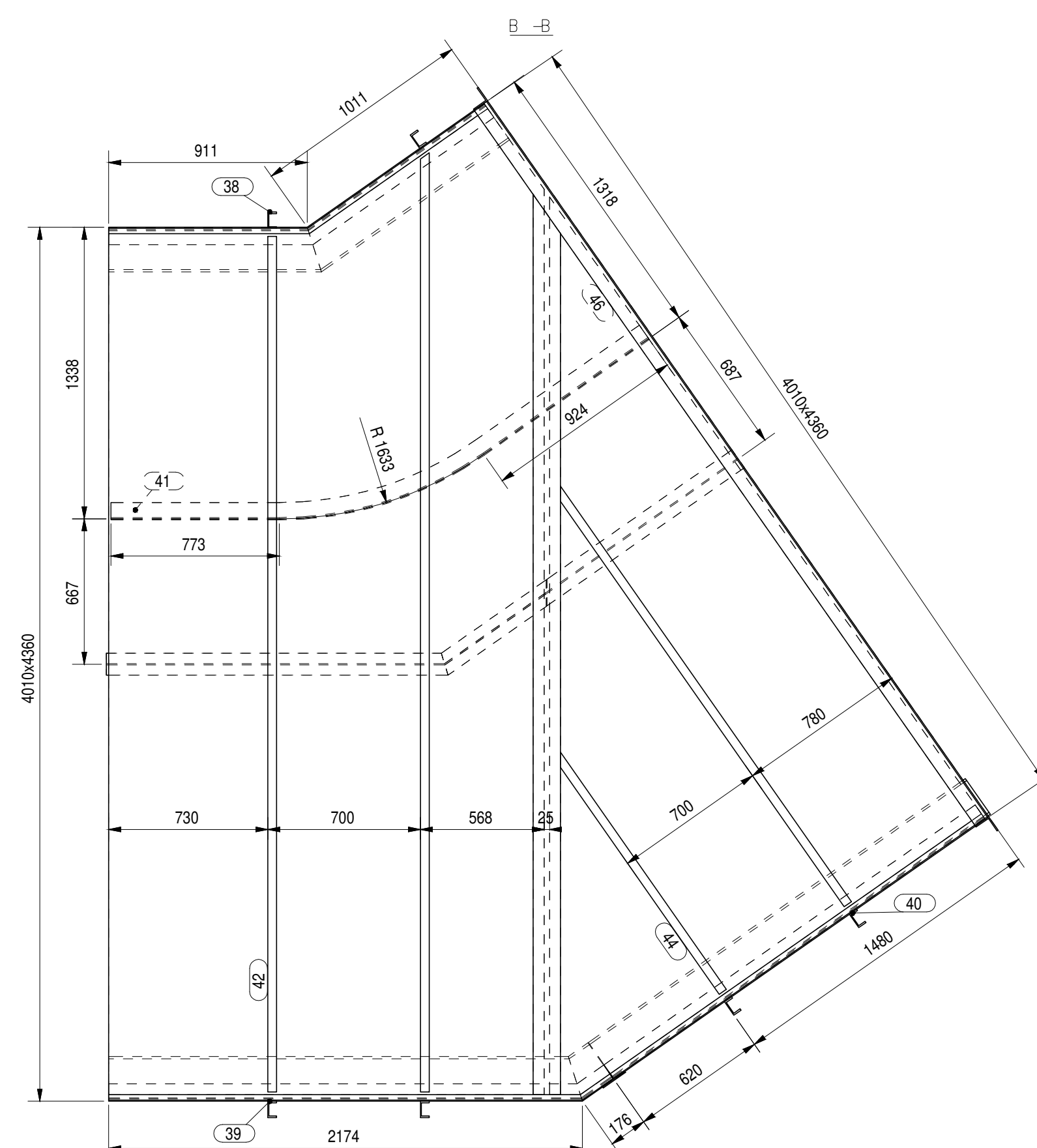
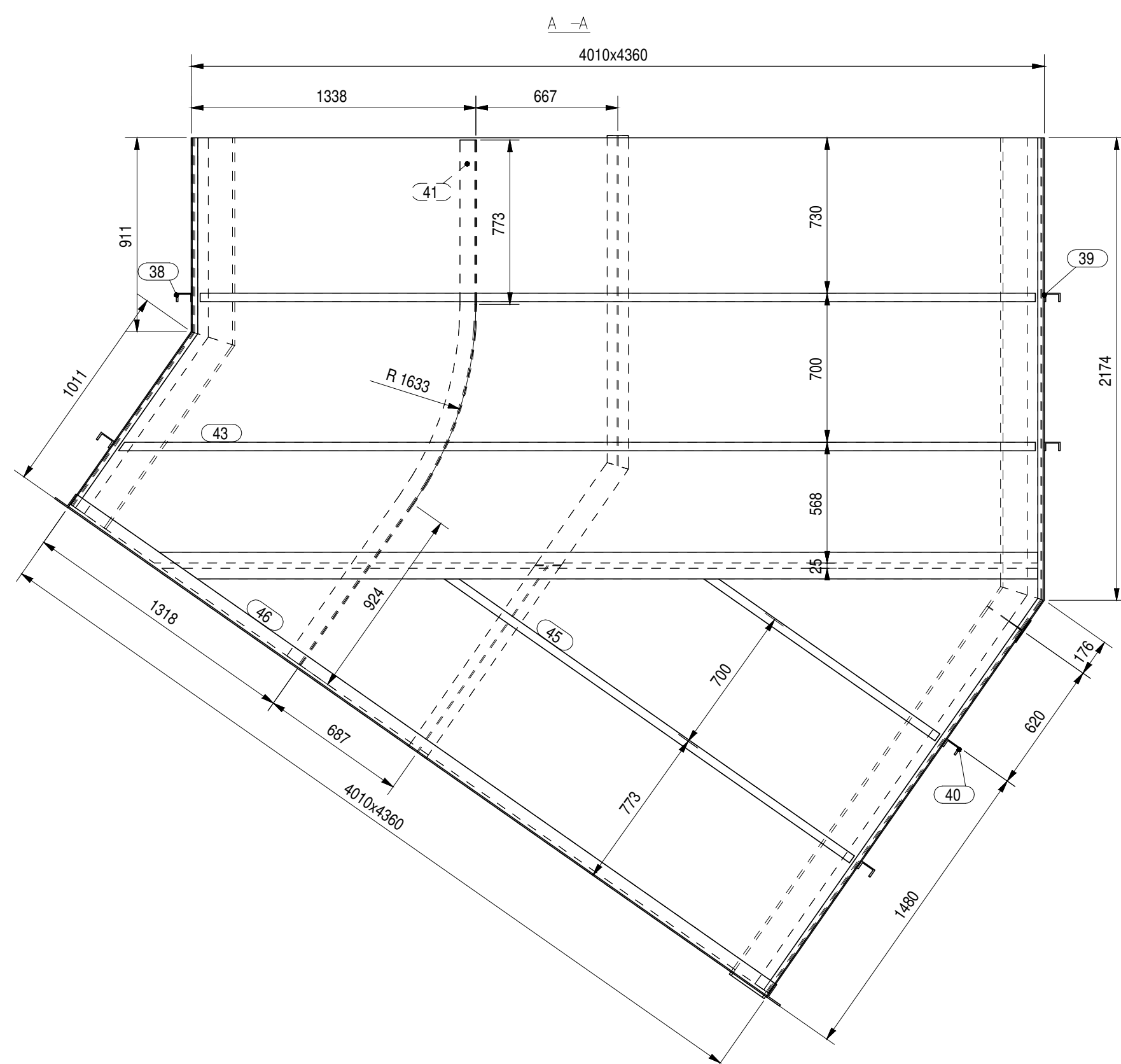
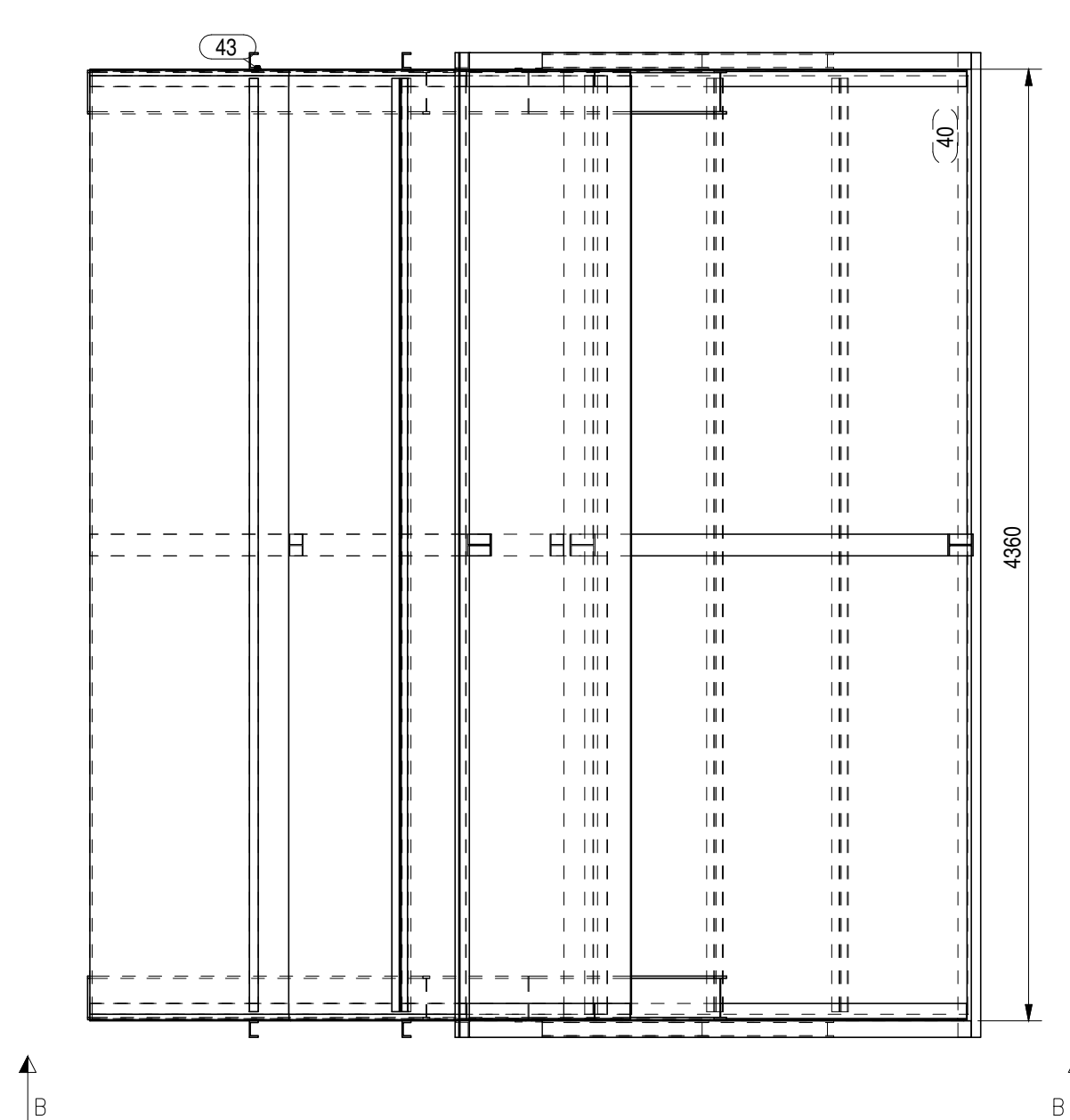
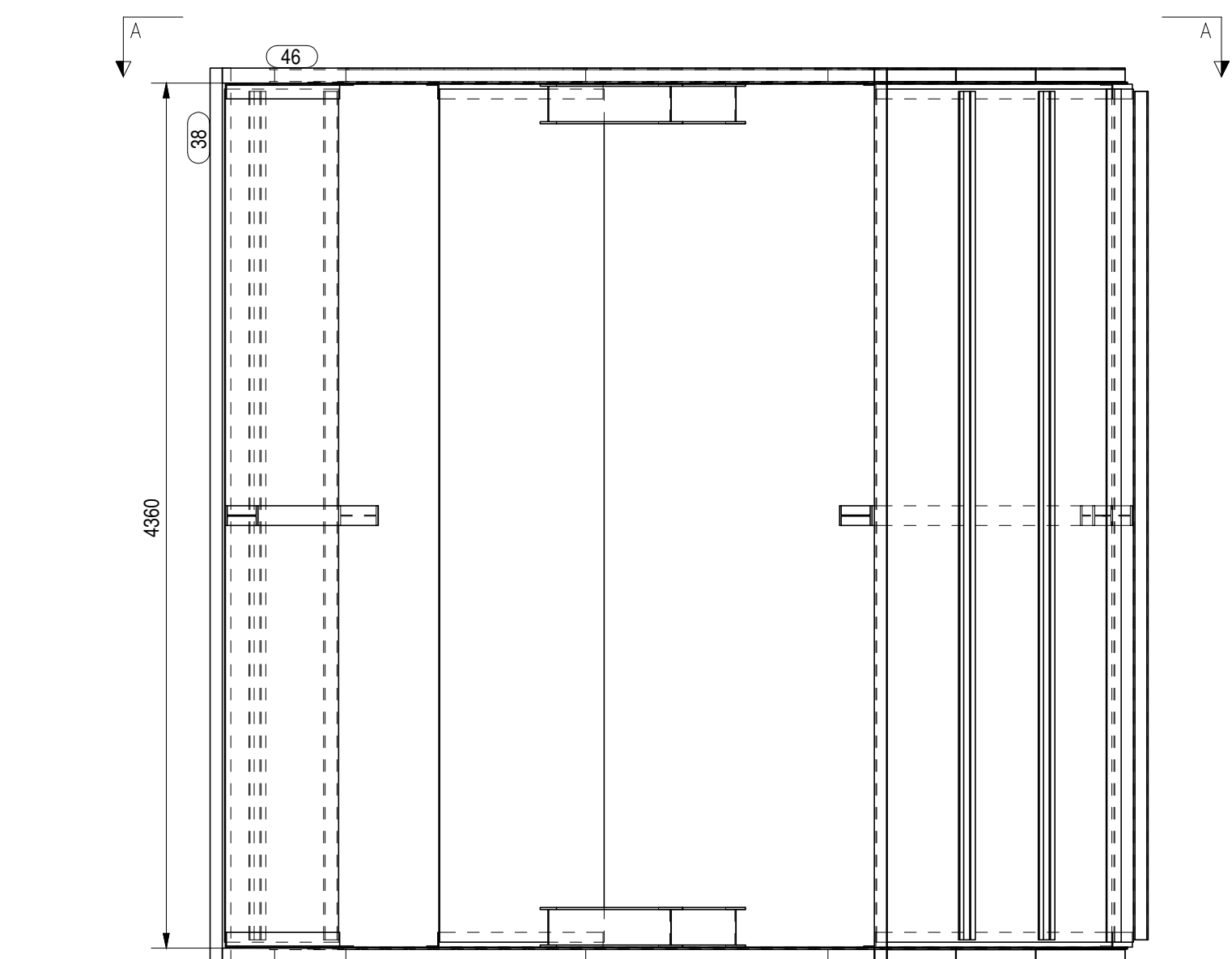
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DRAWING NO: 1-48-012-43799

## DESPATCH TABLE

| DU NO. | ITEM NO.                | DESCRIPTION        | ITEM QTY. |
|--------|-------------------------|--------------------|-----------|
| (38)   | DRG NO.: 2-48-02-857701 | QTY-1 WT/DU-490.56 |           |
|        | C16                     | SMC75; 4276        | 1         |
|        | A42                     | SA75X75X6; 1920    | 1         |
|        | A46                     | SA75X75X6; 1920    | 1         |
|        | B46                     | SMB200; 976        | 1         |
|        | B48                     | SMB200; 1055       | 1         |
|        | C16                     | SMC75; 4276        | 1         |
|        | F14                     | SA75X75X6; 4510    | 1         |
|        | PL73                    | PLT 5;190X4300     | 1         |
| (39)   | DRG NO.: 3-48-02-857801 | QTY-1 WT/DU-546.68 |           |
|        | C16                     | SMC75; 4276        | 1         |
|        | A43                     | SA75X75X6; 2345    | 1         |
|        | A45                     | SA75X75X6; 2345    | 1         |
|        | B45                     | SMB200; 2172       | 1         |
|        | B49                     | SMB200; 173        | 1         |
|        | C16                     | SMC75; 4276        | 1         |
|        | PL72                    | PLT 5;233X4300     | 1         |
| (40)   | DRG NO.: 3-48-02-857901 | QTY-1 WT/DU-543.65 |           |
|        | C16                     | SMC75; 4276        | 1         |
|        | A44                     | SA75X75X6; 2079    | 2         |
|        | B47                     | SMB200; 2111       | 1         |
|        | C16                     | SMC75; 4276        | 1         |
|        | FJ21                    | PLT 5;125X4300     | 1         |
|        | F14                     | SA75X75X6; 4510    | 1         |
|        | PL71                    | PLT 5;206X4300     | 1         |
| (41)   | DRG NO.: 3-48-02-857902 | QTY-1 WT/DU-491.79 |           |
|        | GV4                     | PLT 5;269X4300     | 1         |
|        | A47                     | SA75X75X6; 2696    | 1         |
|        | A48                     | SA75X75X6; 2696    | 1         |
| (42)   | DRG NO.: 2-48-02-857702 | QTY-1 WT/DU-437.37 |           |
|        | PL23                    | PLT 5;199X4524     | 1         |
|        | B50                     | SMB200; 1568       | 1         |
|        | B52                     | SMB200; 620        | 1         |
|        | C17                     | SMC75; 4309        | 1         |
|        | C18                     | SMC75; 3926        | 1         |
| (43)   | DRG NO.: 2-48-02-857703 | QTY-1 WT/DU-437.37 |           |
|        | PL24                    | PLT 5;199X4524     | 1         |
|        | B50                     | SMB200; 1568       | 1         |
|        | B52                     | SMB200; 620        | 1         |
|        | C17                     | SMC75; 4309        | 1         |
|        | C18                     | SMC75; 3926        | 1         |
| (44)   | DRG NO.: 3-48-02-857802 | QTY-1 WT/DU-237.75 |           |
|        | PL25                    | PLT 5;1982X4118    | 1         |
|        | B51                     | SMB200; 1106       | 1         |
|        | C19                     | SMC75; 2327        | 1         |
|        | C20                     | SMC75; 1328        | 1         |
|        | FJ28                    | PLT 5;125X4130     | 1         |
| (45)   | DRG NO.: 3-48-02-857803 | QTY-1 WT/DU-237.75 |           |
|        | PL26                    | PLT 5;1982X4118    | 1         |
|        | B51                     | SMB200; 1106       | 1         |
|        | C19                     | SMC75; 2327        | 1         |
|        | C20                     | SMC75; 1328        | 1         |
|        | FJ7                     | PLT 5;125X4130     | 1         |
| (46)   | DRG NO.: 3-48-02-857903 | QTY-1 WT/DU-27.26  |           |
|        | F13                     | SA75X75X6; 4010    | 1         |

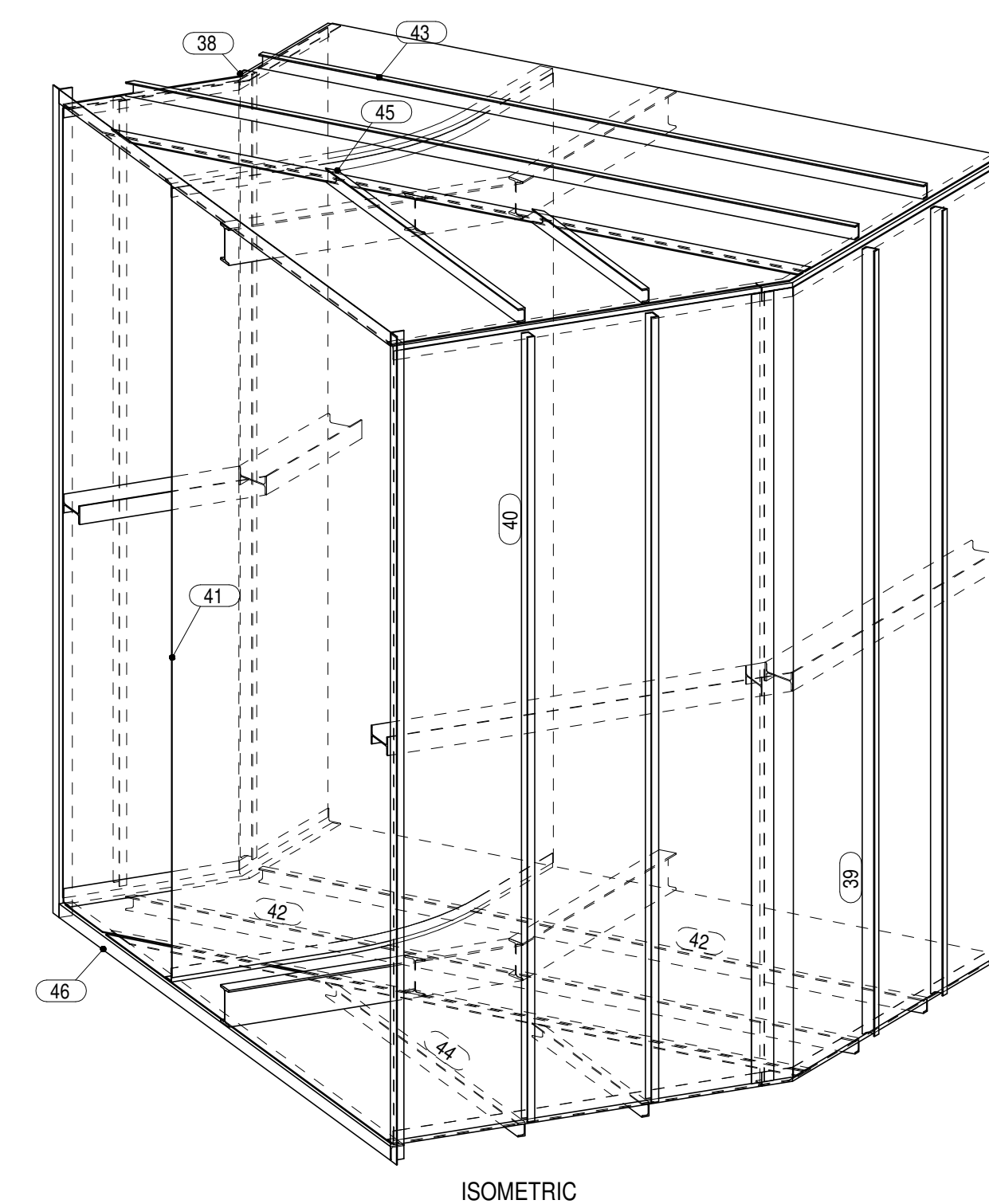
MODULE NAME: MODULE 6 MODULE QTY: 1



NOTES:

01. FOR GENERAL NOTES REFER PAGE NO.41 (REF.41) OF DUCT CONSTRUCTION MANUAL  
REF. 121 FOR CONSTRUCTION DETAIL

| FLANGE DETAILS |        |      |     |   |      |      |     |   |     |    |
|----------------|--------|------|-----|---|------|------|-----|---|-----|----|
| FLANGE NO.     | REF    | D    | X   | A | B    | W    | S   | E | F   | N  |
| FLANGE1        | REF111 | 4360 | 406 | 2 | 1828 | 4010 | 942 | 1 | 914 | 22 |



**PART MARK LEGEND**

|                                                                                       |                                                                                       |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |
| NEAR SIDE                                                                             | FAR SIDE                                                                              |

| SUMMARY OF STEEL |             |          |
|------------------|-------------|----------|
| SR. No.          | DESCRIPTION | TOTAL WT |
| 1                | ISA75X75X6  | 238.74   |
| 2                | ISMB200     | 332.12   |
| 3                | ISMC75      | 352.98   |
| 4                | PLT 5 THK   | 2553.61  |
| TOTAL IN KGS.    |             | 3477.45  |

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|                                                   |                             |                                                                                                                                                                                                        |              |                                               |                       |                                                        |
|---------------------------------------------------|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------------------------------------|-----------------------|--------------------------------------------------------|
| TYPE OF PRODUCT<br>OR NAME OF<br>CUSTOMER/PROJECT |                             | <div> Bharat Heavy Electricals Ltd.</div> <div>UNIT: HIGH PRESSURE BOILER PLANT<br/>TIRUCHIRAPALLI - 620014</div> |              | DRN<br>VEERA<br>CHD<br>KULA<br>APPD<br>RAMANA | SIGNATURE             | DATE<br>29.03.2017<br><br>29.03.2017<br><br>29.03.2017 |
| 355-053                                           |                             |                                                                                                                                                                                                        |              |                                               |                       |                                                        |
| DEPT<br>DUCT                                      | ALL DIMENSIONS<br>ARE IN MM | PROJECTION<br>                                                                                                    | SCALE<br>NTS | WEIGHT (Kg)<br>3477.47                        | REF TO ASSY / OLD DWG |                                                        |
| CODE<br>124                                       |                             |                                                                                                                                                                                                        |              |                                               |                       |                                                        |
| TITLE<br><br>BEND DUCT                            |                             |                                                                                                                                                                                                        |              | DRAWING NO :<br><br>1-48-012-43799            |                       | RE                                                     |

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00854-012-43800

DRG NO:  
3-48-012-B5706 QTY-2 WT/DU-501.36

PL27

PLT 5;2013x4300

1

A51

SA75X75X6; 2024

2

B58

ISMB200; 2043

1

C22

ISMC75; 4276

2

FJ11

PLT 5;125x4300

1

DRG NO:  
3-48-012-B5706 QTY-2 WT/DU-612.03

PL28

PLT 5;2291x4300

1

A52

SA75X75X6; 2302

2

B57

ISMB200; 2320

1

C22

ISMC75; 4276

3

FL48

ISMC100; 4560

1

DRG NO:  
3-48-012-B5707 QTY-1 WT/DU-412.40

PL30

PLT 5;1863x3950

1

B59

ISMB200; 1893

1

C21

ISMC75; 3926

2

FJ10

PLT 5;125x3950

1

DRG NO:  
3-48-012-B5708 QTY-1 WT/DU-384.36

PL30

PLT 5;1863x3950

1

B59

ISMB200; 1893

1

C21

ISMC75; 3926

1

FJ10

PLT 5;125x3950

1

DRG NO:  
3-48-012-B5709 QTY-1 WT/DU-563.57

PL29

PLT 5;2441x3950

1

B60

ISMB200; 2470

1

C21

ISMC75; 3926

3

FL47

ISMC100; 4010

1

DRG NO:  
3-48-012-B5710 QTY-1 WT/DU-507.51

PL29

PLT 5;2441x3950

1

B60

ISMB200; 2470

1

C21

ISMC75; 3926

1

FL47

ISMC100; 4010

1

DRG NO:  
3-48-012-B5711 QTY-1 WT/DU-59.66

T14

PIPE108\*8; 2743

1

GU9

PLT 10;215x229

1

GU12

PLT 10;226x235

1

DRG NO:  
3-48-012-B5712 QTY-6 WT/DU-19.91

T8

PIPE60\*3.91; 2793

1

GU7

PLT 10;182x195

1

GU10

PLT 10;191x199

1

DRG NO:  
3-48-012-B5713 QTY-1 WT/DU-49.99

T11

PIPE114.3\*6.02; 2736

1

GU8

PLT 10;220x234

1

GU11

PLT 10;231x239

1

DRG NO:  
3-48-012-B5714 QTY-1 WT/DU-59.68

GU29

PLT 10;139x175

1

GU29

PLT 10;139x175

1

T12

PIPE114.3\*6.02; 3550

1

DRG NO:  
3-48-012-B5715 QTY-1 WT/DU-85.78

GU30

PLT 10;152x175

1

GU30

PLT 10;152x175

1

T32

PIPE127\*8; 3550

1

4580x4010

51

49

48

47

55

56

57

54

52

50

2473

1876

656

2780

919

2473

1876

656

2780

919

4010x4380

48

47

51

49

53

54

54

48

2323

2026

656

2780

919

2323

2026

656

2780

919

2000

2000

2175

2175

A-A

54

56

54

54

2000

2000

2175

2175

B-B

54

57

54

54

ISOMETRIC

51

48

49

47

55

56

57

54

52

50

NOTES:

01. FOR GENERAL NOTES REFER PAGE NO.41 (REF.41) OF DUCT CONSTRUCTION MANUAL  
REF. 121 FOR CONSTRUCTION DETAIL

FLANGE DETAILS

| FLANGE NO. | REF    | D    | X   | A | B    | W    | S   | E | F   | N  |
|------------|--------|------|-----|---|------|------|-----|---|-----|----|
| FLANGE1    | REF111 | 4360 | 406 | 2 | 1828 | 4010 | 942 | 1 | 914 | 22 |

PART MARK LEGEND

XXX

XXX

NEAR SIDE

FAR SIDE

SUMMARY OF STEEL

| SR. No.       | DESCRIPTION    | TOTAL WT |
|---------------|----------------|----------|
| 1             | ISA75X75X6     | 117.63   |
| 2             | ISMB200        | 443.28   |
| 3             | ISMC75         | 501.53   |
| 4             | ISMC100        | 163.86   |
| 5             | PIPE60*3.91    | 87.22    |
| 6             | PIPE108*8      | 52.86    |
| 7             | PIPE114.3*6.02 | 98.84    |
| 8             | PIPE127*8      | 81.60    |
| 9             | PLT 5 THK      | 2868.31  |
| 10            | PLT 10 THK     | 54.06    |
| TOTAL IN KGS. |                | 4469.19  |

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TYPE OF PRODUCT  
OR NAME OF  
CUSTOMER/PROJECT

355-053

DRN

CHD

APPD

Bharat Heavy Electricals Ltd.

UNIT: HIGH PRESSURE BOILER PLANT  
TIRUCHIRAPALLI - 620014

NAME  
VEERA

SIGNATURE

DATE  
29.03.2017

DEPT  
DUCT

ALL DIMENSIONS  
ARE IN MM

PROJECTION

SCALE  
NTS

WEIGHT (Kg)  
4469.188

REF TO ASSY / OLD DWG

TITLE  
STRAIGHT DUCT

DRAWING NO :  
1-48-012-43800

REV

MODULE NAME: MODULE 7 MODULE QTY: 2

1

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10854-710-847-012-43801

DRG NO: 3-48-012-85716 QTY-2 WT/DU-583.27

58

PL31

PLT 5;2113x4300

1

59

PL49

ISA75X75X6; 2124

2

60

ISMB200; 2143

1

61

ISMC75; 4276

3

62

PLT 5;125x4300

1

63

ISA75X75X6; 4510

1

64

ISMC100; 4560

1

65

ISMB200; 1993

1

66

PL34

PLT 5;1963x3950

1

67

ISMB200; 1993

1

68

ISMC75; 3926

3

69

PLT 5;125x3950

1

70

ISA75X75X6; 4010

1

71

PL34

PLT 5;1963x3950

1

72

ISMB200; 2510

1

73

PL33

PLT 5;2480x3950

1

74

ISMB200; 2510

1

75

ISMC75; 3926

3

76

ISMC100; 4010

1

77

PL33

PLT 5;2480x3950

1

78

PIPE60\*3.91; 2793

1

79

PLT 10;182x195

1

80

PLT 10;191x199

1

81

PIPE108\*8; 2743

1

82

PLT 10;215x229

1

83

PLT 10;226x235

1

84

PLT 10;152x175

1

85

PLT 10;152x175

1

86

PIPE127\*8; 3550

1

2513

1996

2795

1713

4360x4010

59

60

61

62

63

64

2000

2000

2175

2175

62

64

2363

2145

2795

1713

4010x4360

59

60

61

62

63

64

ISOMETRIC

61

59

60

62

63

64

xxx

xxx

NEAR SIDE

FAR SIDE

SUMMARY OF STEEL

| SR. No.       | DESCRIPTION | TOTAL WT |
|---------------|-------------|----------|
| 1             | ISA75X75X6  | 237.25   |
| 2             | ISMB200     | 457.40   |
| 3             | ISMC75      | 702.75   |
| 4             | ISMC100     | 163.86   |
| 5             | PIPE60*3.91 | 43.61    |
| 6             | PIPE108*8   | 52.86    |
| 7             | PIPE127*8   | 81.60    |
| 8             | PLT 5 THK   | 2958.35  |
| 9             | PLT 10 THK  | 27.10    |
| TOTAL IN KGS. |             | 4724.79  |

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TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT

355-053

DEPT DUCT

CODE 124

TITLE

ALL DIMENSIONS ARE IN MM

PROJECTION

SCALE NTS

WEIGHT (Kg) 4724.791

355-053

UNIT: HIGH PRESSURE BOILER PLANT TIRUCHIRAPALLI - 620014

REF TO ASSY / OLD DWG

DRN NAME VEERA

SIGNATURE

DATE 29.03.2017

CHD KULA

SIGNATURE

DATE 29.03.2017

APPD RAMANA

SIGNATURE

DATE 29.03.2017

1-48-012-43801

REV

1

2

3

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MODULE NAME: MODULE 8

MODULE QTY: 2

1

2

3

4

5

6

7

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12

1

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12

1-48-012-43802

DRG NO:  
3-48-012-B5723

DTY-2

WT/DU-551.63

PL37

PLT 5;2000x4300

1

A53

ISA75X75X6; 2011

2

B62

ISMB200; 2030

1

C26

ISMC75; 4276

3

FL50

ISMC100; 4560

1

DRG NO:  
3-48-012-B5724

DTY-2

WT/DU-516.02

PL35

PLT 5;1936x4300

1

A54

ISA75X75X6; 1947

2

B64

ISMB200; 1966

1

C26

ISMC75; 4276

2

FJ13

PLT 5;125x4300

1

FL18

ISA75X75X6; 4510

1

DRG NO:  
3-48-012-B5725

DTY-2

WT/DU-511.12

B61

ISMB200; 2180

1

PL38

PLT 5;2150x3950

1

B61

ISMB200; 2180

1

C25

ISMC75; 3926

3

FL49

ISMC100; 4010

1

PL38

PLT 5;2150x3950

1

DRG NO:  
3-48-012-B5726

DTY-1

WT/DU-425.77

PL36

PLT 5;1786x3950

1

B63

ISMB200; 1816

1

C25

ISMC75; 3926

2

FJ12

PLT 5;125x3950

1

FL17

ISA75X75X6; 4010

1

DRG NO:  
3-48-012-B5727

DTY-1

WT/DU-397.74

PL36

PLT 5;1786x3950

1

B63

ISMB200; 1816

1

C25

ISMC75; 3926

1

FJ12

PLT 5;125x3950

1

FL17

ISA75X75X6; 4010

1

DRG NO:  
3-48-012-B5728

DTY-3

WT/DU-19.91

T7

PIPE60\*3.91; 2793

1

GU3

PLT 10;182x195

1

GU5

PLT 10;191x199

1

DRG NO:  
3-48-012-B5729

DTY-1

WT/DU-59.66

T13

PIPE108\*8; 2743

1

GU4

PLT 10;215x229

1

GU6

PLT 10;226x235

1

DRG NO:  
3-48-012-B5730

DTY-1

WT/DU-85.78

GU27

PLT 10;152x175

1

GU27

PLT 10;152x175

1

T30

PIPE127\*8; 3550

1

2183

1819

67

68

65

66

70

72

69

4360x4010

2032

1969

65

66

67

68

71

72

70

4010x4360

2000

2000

2175

2175

70

71

72

67

68

66

65

69

71

72

70

70

ISOMETRIC

NOTES:

01. FOR GENERAL NOTES REFER PAGE NO.41 (REF.41) OF DUCT CONSTRUCTION MANUAL

REF. 121 FOR CONSTRUCTION DETAIL

FLANGE DETAILS

| FLANGE NO. | REF    | D    | X   | A | B    | W    | S   | E | F   | N  |
|------------|--------|------|-----|---|------|------|-----|---|-----|----|
| FLANGE1    | REF111 | 4360 | 406 | 2 | 1828 | 4010 | 942 | 1 | 914 | 22 |

PART MARK LEGEND

XXX

XXX

NEAR SIDE

FAR SIDE

SUMMARY OF STEEL

| SR. No.       | DESCRIPTION | TOTAL WT |
|---------------|-------------|----------|
| 1             | ISA75X75X6  | 223.48   |
| 2             | ISMB200     | 405.92   |
| 3             | ISMC75      | 557.59   |
| 4             | ISMC100     | 163.86   |
| 5             | PIPE60*3.91 | 43.61    |
| 6             | PIPE108*8   | 52.86    |
| 7             | PIPE127*8   | 81.60    |
| 8             | PLT 5 THK   | 2630.20  |
| 9             | PLT 10 THK  | 27.10    |
| TOTAL IN KGS. |             | 4186.22  |

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TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT

Bharat Heavy Electricals Ltd.

UNIT: HIGH PRESSURE BOILER PLANT

TIRUCHIRAPALLI - 620014

DRN

CHD

APPD

NAME

VEERA

KULA

RAMANA

SIGNATURE

DATE

29.03.2017

29.03.2017

29.03.2017

DEPT

DUCT

CODE

124

ALL DIMENSIONS ARE IN MM

PROJECTION

SCALE

NTS

WEIGHT (Kg)

4186.224

REF TO ASSY / OLD DWG

TITLE

STRAIGHT DUCT

DRAWING NO :

1-48-012-43802

REV

MODULE NAME: MODULE 9

MODULE QTY: 2

1

2

3

4

5

6

7

8

9

10

11

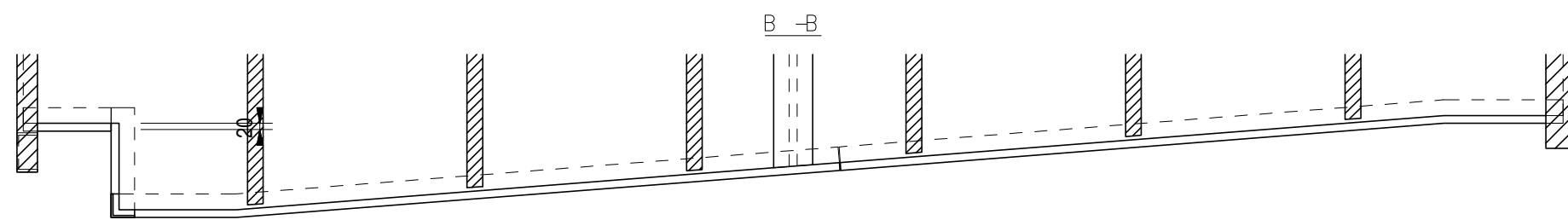
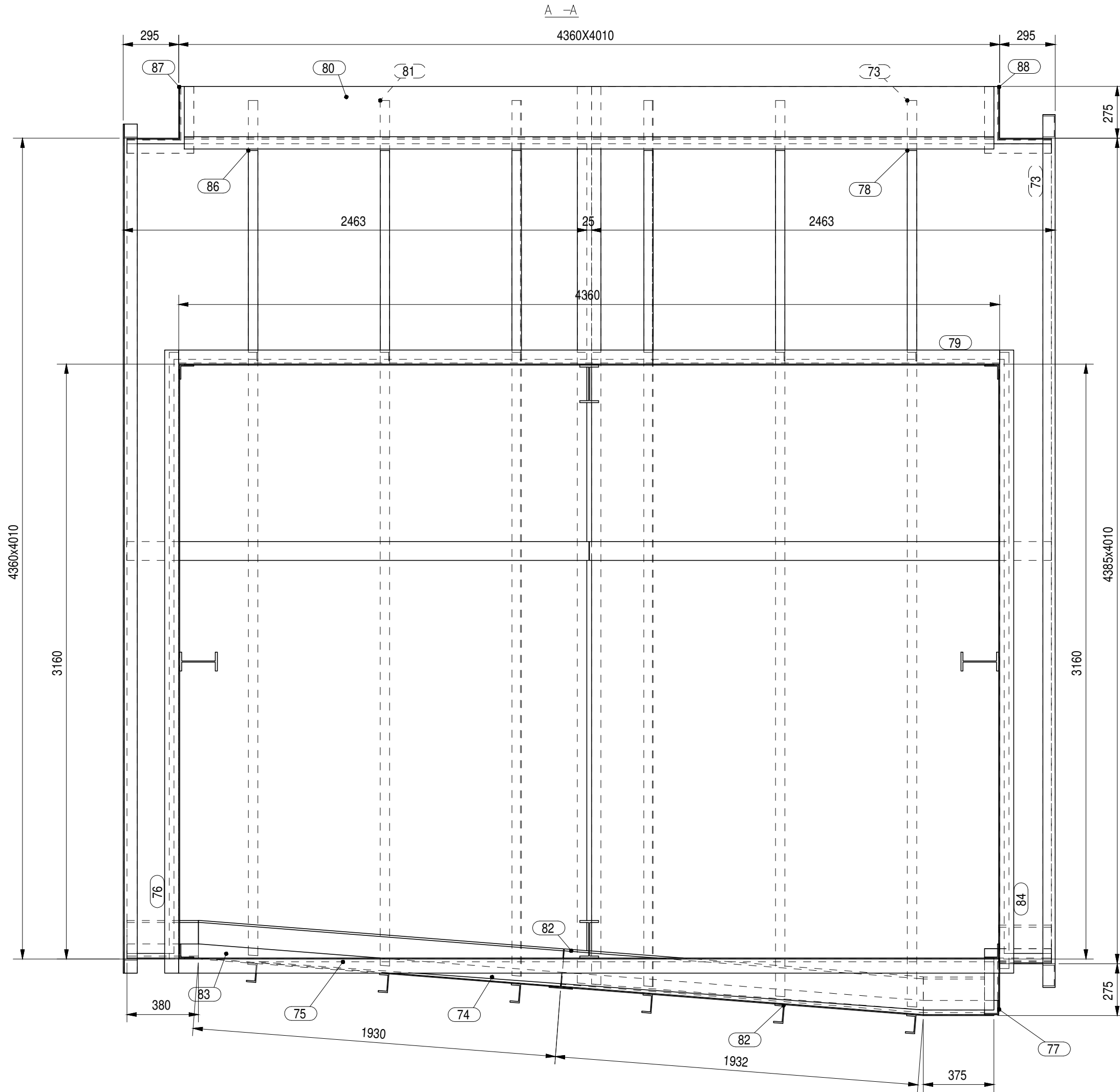
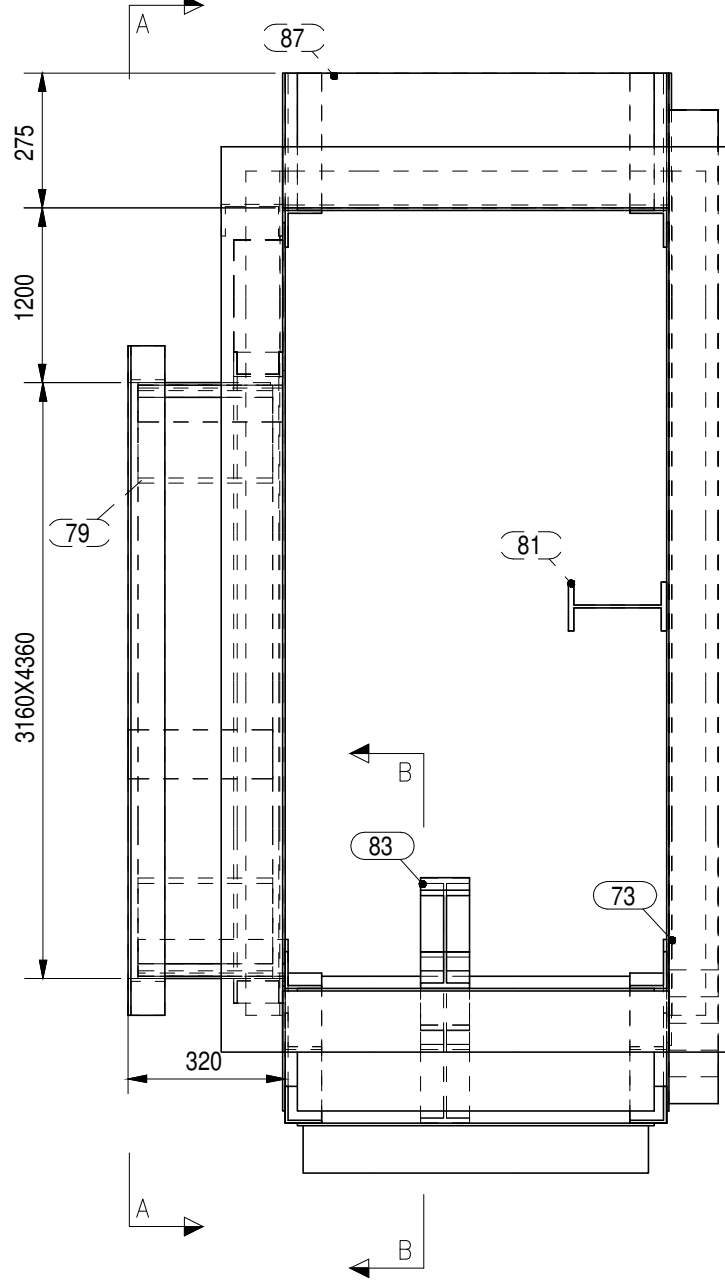
12

1-48-012-43803  
DRAWING NO.

DESPATCH TABLE

| DU NO. | ITEM NO.               | DESCRIPTION | ITEM QTY.    |
|--------|------------------------|-------------|--------------|
| 73     | DRG NO: 2-48-012-57704 | DTY-1       | WT/DU-726.19 |
| PL1    | PLT 5;2443x4905        | 1           |              |
| A11    | ISA75X75X6; 350        | 1           |              |
| A15    | ISA75X75X6; 280        | 1           |              |
| A17    | ISA75X75X6; 560        | 1           |              |
| B24    | ISMB200; 2454          | 1           |              |
| C44    | ISMC100; 4815          | 1           |              |
| C45    | ISMC100; 4760          | 1           |              |
| C47    | ISMC100; 4706          | 1           |              |
| FL31   | SMC125; 4635           | 1           |              |
| 74     | DRG NO: 3-48-012-85731 | DTY-1       | WT/DU-23.79  |
| PL8    | PLT 5;255x3904         | 1           |              |
| A12    | ISA75X75X6; 350        | 1           |              |
| 75     | DRG NO: 3-48-012-85732 | DTY-1       | WT/DU-85.08  |
| PL9    | PLT 5;275x4300         | 1           |              |
| A13    | ISA75X75X6; 300        | 1           |              |
| B17    | ISMB200; 275           | 1           |              |
| FL7    | ISA75X75X6; 4360       | 1           |              |
| 76     | DRG NO: 3-48-012-85733 | DTY-1       | WT/DU-65.49  |
| PL10   | PLT 5;275x3100         | 1           |              |
| A13    | ISA75X75X6; 300        | 1           |              |
| B25    | ISMB200; 295           | 1           |              |
| FL8    | ISA75X75X6; 3310       | 1           |              |
| 77     | DRG NO: 3-48-012-85734 | DTY-1       | WT/DU-168.23 |
| PL4    | PLT 5;530x3950         | 1           |              |
| A14    | ISA75X75X6; 4000       | 1           |              |
| B18    | ISMB200; 280           | 1           |              |
| FL32   | SMC125; 4010           | 1           |              |
| 78     | DRG NO: 3-48-012-85735 | DTY-1       | WT/DU-266.69 |
| PL7    | PLT 5;2443x4300        | 1           |              |
| A15    | ISA75X75X6; 280        | 1           |              |
| C43    | ISMC100; 3273          | 1           |              |
| C51    | ISMC100; 1118          | 3           |              |
| FL31   | SMC125; 4635           | 1           |              |
| 79     | DRG NO: 3-48-012-85736 | DTY-1       | WT/DU-86.20  |
| PL11   | PLT 5;270x4300         | 1           |              |
| A16    | ISA75X75X6; 295        | 2           |              |
| B17    | ISMB200; 275           | 1           |              |
| FL21   | ISA75X75X6; 4360       | 1           |              |
| 80     | DRG NO: 3-48-012-85737 | DTY-1       | WT/DU-111.20 |
| PL12   | PLT 5;280x4300         | 1           |              |
| A17    | ISA75X75X6; 560        | 2           |              |
| C32    | SMC125; 4300           | 1           |              |
| 81     | DRG NO: 2-48-012-57705 | DTY-1       | WT/DU-696.38 |
| C46    | ISMC100; 4651          | 1           |              |
| A17    | ISA75X75X6; 560        | 1           |              |
| B23    | ISMB200; 2456          | 1           |              |
| C48    | ISMC100; 4542          | 1           |              |
| C49    | ISMC100; 4597          | 1           |              |
| FJ3    | PLT 5;125x4772         | 1           |              |
| FL5    | ISA75X75X6; 4510       | 1           |              |
| PL2    | PLT 5;2443x4766        | 1           |              |
| 82     | DRG NO: 2-48-012-57706 | DTY-1       | WT/DU-557.13 |
| C50    | ISMC100; 3926          | 1           |              |
| A18    | ISA75X75X6; 2330       | 1           |              |
| A20    | ISA75X75X6; 2330       | 1           |              |
| B19    | ISMB200; 1929          | 1           |              |
| B20    | ISMB200; 325           | 1           |              |
| C50    | ISMC100; 3926          | 2           |              |
| PL5    | PLT 5;229x3950         | 1           |              |
| 83     | DRG NO: 2-48-012-57707 | DTY-1       | WT/DU-605.95 |
| FL6    | ISA75X75X6; 4010       | 1           |              |
| A19    | ISA75X75X6; 2309       | 1           |              |
| A21    | ISA75X75X6; 2309       | 1           |              |
| B21    | ISMB200; 380           | 1           |              |

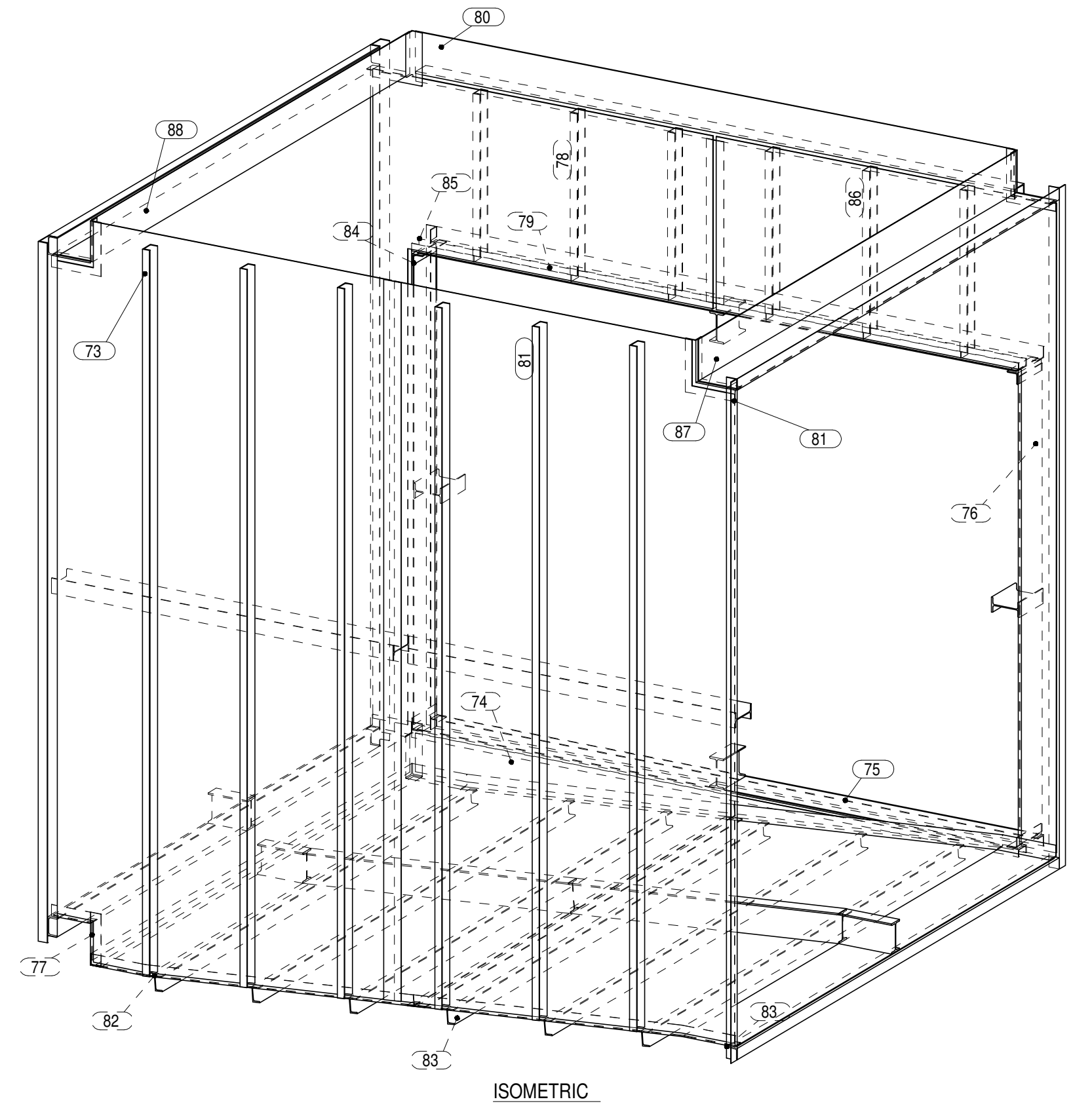
|    |                        |                 |              |
|----|------------------------|-----------------|--------------|
|    | B22                    | ISMB200; 1945   | 1            |
|    | C50                    | ISMC100; 3926   | 3            |
|    | FJ4                    | PLT 5;125x3950  | 1            |
|    | PL6                    | PLT 5;2298x3950 | 1            |
| 84 | DRG NO: 3-48-012-85738 | DTY-1           | WT/DU-63.46  |
|    | PL10                   | PLT 5;275x3100  | 1            |
|    | B25                    | ISMB200; 295    | 1            |
|    | FL8                    | SA75X75X6; 3310 | 1            |
| 85 | DRG NO: 3-48-012-85739 | DTY-2           | WT/DU-41.68  |
|    | C41                    | ISMC100; 4360   | 1            |
| 86 | DRG NO: 3-48-012-85739 | DTY-1           | WT/DU-239.55 |
|    | PL7                    | PLT 5;2443x4300 | 1            |
|    | C42                    | ISMC100; 3223   | 1            |
|    | C51                    | ISMC100; 1118   | 3            |
|    | FJ5                    | PLT 5;125x1080  | 1            |
|    | FL5                    | SA75X75X6; 4510 | 1            |
| 87 | DRG NO: 3-48-012-85740 | DTY-1           | WT/DU-113.31 |
|    | PL3                    | PLT 5;560x3950  | 1            |
|    | FL6                    | SA75X75X6; 4010 | 1            |
| 88 | DRG NO: 3-48-012-85741 | DTY-1           | WT/DU-138.58 |
|    | PL3                    | PLT 5;560x3950  | 1            |



NOTES:  
01. FOR GENERAL NOTES REFER PAGE NO.41 (REF.41) OF DUCT CONSTRUCTION MANUAL  
REF. 121 FOR CONSTRUCTION DETAIL

FLANGE DETAILS

| FLANGE NO. | REF    | D    | X   | A | B    | W    | S   | E | F    | N  |
|------------|--------|------|-----|---|------|------|-----|---|------|----|
| FLANGE1    | REF111 | 4360 | 406 | 2 | 1828 | 4010 | 942 | 1 | 914  | 22 |
| FLANGE1    | REF111 | 4385 | 431 | 2 | 1828 | 4010 | 942 | 1 | 914  | 22 |
| FLANGE2    | REF110 | 3160 | 517 | 1 | 914  | 4360 | 406 | 2 | 1828 | 22 |



| PART MARK LEGEND |          |
|------------------|----------|
| XXX              | XXX      |
| NEAR SIDE        | FAR SIDE |

| SUMMARY OF STEEL |             |          |
|------------------|-------------|----------|
| SR. No.          | DESCRIPTION | TOTAL WT |
| 1                | ISA75X75X6  | 342.27   |
| 2                | ISMB200     | 277.06   |
| 3                | ISMC100     | 703.13   |
| 4                | ISMC125     | 282.83   |
| 5                | PLT 5 THK   | 2425.31  |
| TOTAL IN KGS.    |             | 4030.60  |

|                                                             |                             |                            |                         |                                |               |           |                    |
|-------------------------------------------------------------|-----------------------------|----------------------------|-------------------------|--------------------------------|---------------|-----------|--------------------|
| TYPE OF PRODUCT<br>OR NAME OF<br>CUSTOMER/PROJECT           |                             |                            |                         | DRN                            | NAME<br>VEERA | SIGNATURE | DATE<br>29.03.2017 |
| Bharat Heavy Electricals Ltd.                               |                             |                            |                         | CHD                            | KULA          |           | 29.03.2017         |
| UNIT: HIGH PRESSURE BOILER PLANT<br>TIRUCHIRAPALLI - 620014 |                             |                            |                         | APPD                           | RAMANA        |           | 29.03.2017         |
| DEPT<br>DUCT                                                | ALL DIMENSIONS<br>ARE IN MM | PROJECTION<br>SCALE<br>NTS | WEIGHT (Kg)<br>4030.605 | REF TO ASSY / OLD DWG          |               |           |                    |
| CODE<br>124                                                 | TITLE<br>T DUCT             |                            |                         | DRAWING NO :<br>1-48-012-43803 |               | REV       |                    |

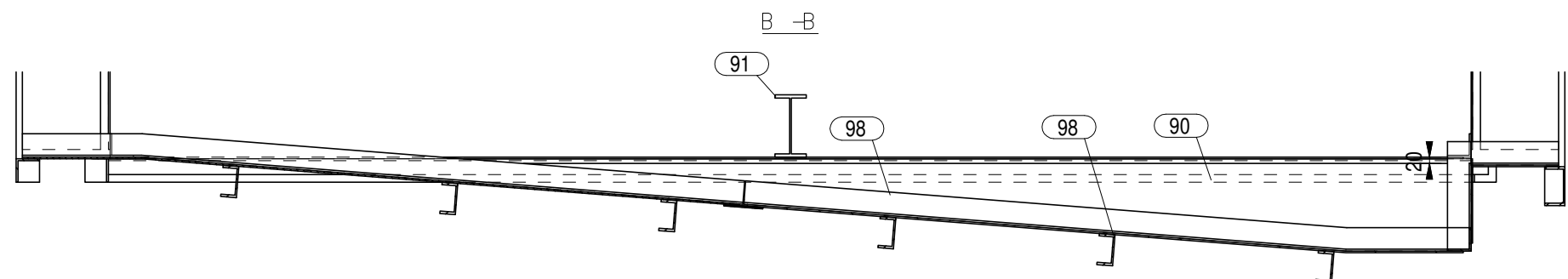
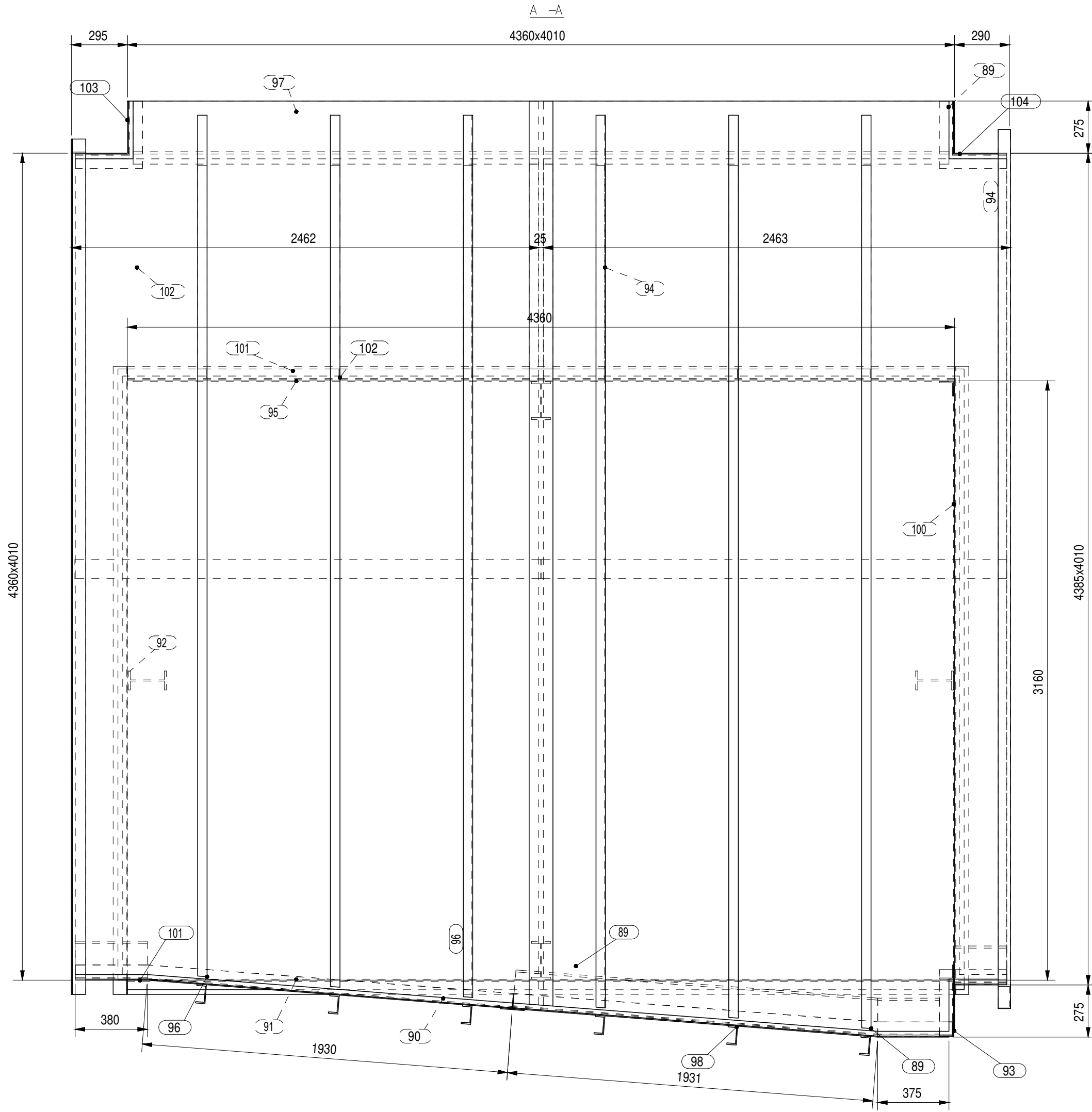
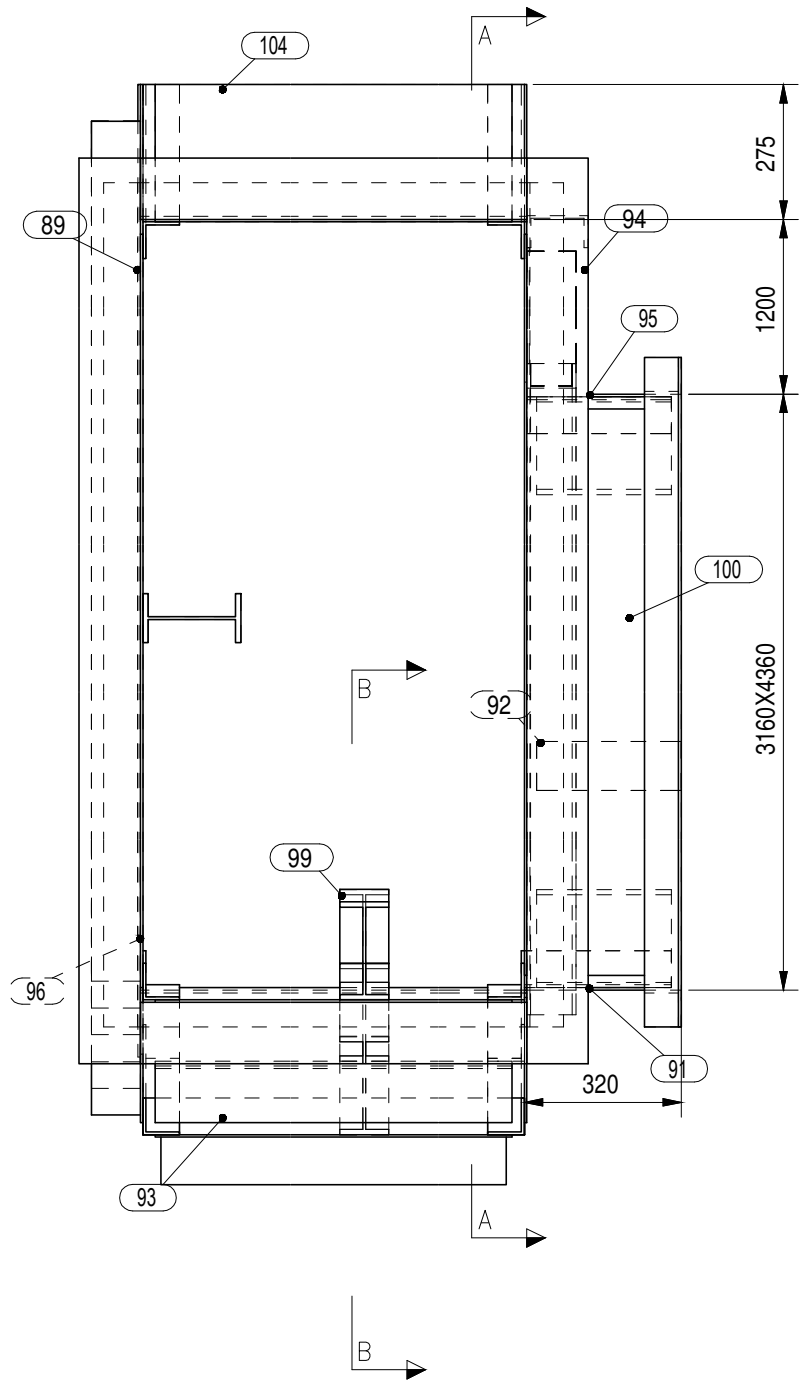
MODULE NAME: MODULE 10 MODULE QTY: 1

1-48-012-43804

DESPATCH TABLE

| DU NO. | ITEM NO.               | DESCRIPTION      | ITEM QTY.    |
|--------|------------------------|------------------|--------------|
| 89     | DRG NO: 2-48-012-57708 | DTY-1            | WT/DU-726.19 |
|        | PL39                   | PLT 5;2443x4905  | 1            |
|        | A55                    | ISA75X75X6; 350  | 1            |
|        | A59                    | ISA75X75X6; 280  | 1            |
|        | A61                    | ISA75X75X6; 560  | 1            |
|        | B72                    | ISMB200; 2454    | 1            |
|        | C62                    | ISMC100; 4815    | 1            |
|        | C63                    | ISMC100; 4760    | 1            |
|        | C64                    | ISMC100; 4706    | 1            |
|        | FL35                   | ISMC125; 4635    | 1            |
| 90     | DRG NO: 4-48-012-64291 | DTY-1            | WT/DU-23.79  |
|        | PL40                   | PLT 5;255x3904   | 1            |
|        | A56                    | ISA75X75X6; 350  | 1            |
| 91     | DRG NO: 3-48-012-85742 | DTY-1            | WT/DU-85.08  |
|        | PL41                   | PLT 5;275x4300   | 1            |
|        | A57                    | ISA75X75X6; 300  | 1            |
|        | B65                    | ISMB200; 275     | 1            |
|        | FL21                   | ISA75X75X6; 4360 | 1            |
| 92     | DRG NO: 3-48-012-85743 | DTY-1            | WT/DU-65.49  |
|        | PL42                   | PLT 5;275x3100   | 1            |
|        | A57                    | ISA75X75X6; 300  | 1            |
|        | B73                    | ISMB200; 295     | 1            |
|        | FL22                   | ISA75X75X6; 3310 | 1            |
| 93     | DRG NO: 3-48-012-85744 | DTY-1            | WT/DU-168.23 |
|        | PL47                   | PLT 5;530x3950   | 1            |
|        | A58                    | ISA75X75X6; 4000 | 1            |
|        | B66                    | ISMB200; 280     | 1            |
|        | FL36                   | ISMC125; 4010    | 1            |
| 94     | DRG NO: 3-48-012-85745 | DTY-1            | WT/DU-266.69 |
|        | PL48                   | PLT 5;2443x4300  | 1            |
|        | A59                    | ISA75X75X6; 280  | 1            |
|        | C61                    | ISMC100; 3273    | 1            |
|        | C67                    | ISMC100; 1118    | 3            |
|        | FL35                   | ISMC125; 4635    | 1            |
| 95     | DRG NO: 3-48-012-85746 | DTY-1            | WT/DU-86.20  |
|        | PL43                   | PLT 5;270x4300   | 1            |
|        | A60                    | ISA75X75X6; 295  | 2            |
|        | B65                    | ISMB200; 275     | 1            |
|        | FL21                   | ISA75X75X6; 4360 | 1            |
| 96     | DRG NO: 2-48-012-57709 | DTY-1            | WT/DU-696.38 |
|        | C58                    | ISMC100; 4651    | 1            |
|        | A61                    | ISA75X75X6; 560  | 1            |
|        | B71                    | ISMB200; 2456    | 1            |
|        | C65                    | ISMC100; 4542    | 1            |
|        | C66                    | ISMC100; 4597    | 1            |
|        | FL14                   | PLT 5;125x4772   | 1            |
|        | FL20                   | ISA75X75X6; 4510 | 1            |
|        | PL45                   | PLT 5;2443x4766  | 1            |
| 97     | DRG NO: 3-48-012-85747 | DTY-1            | WT/DU-111.20 |
|        | PL44                   | PLT 5;280x4300   | 1            |
|        | A61                    | ISA75X75X6; 560  | 2            |
|        | C34                    | ISMC125; 4300    | 1            |
| 98     | DRG NO: 3-48-012-85748 | DTY-1            | WT/DU-557.13 |
|        | C59                    | ISMC100; 3926    | 1            |
|        | A65                    | ISA75X75X6; 2330 | 1            |
|        | A67                    | ISA75X75X6; 2330 | 1            |
|        | B67                    | ISMB200; 1929    | 1            |
|        | B68                    | ISMB200; 325     | 1            |
|        | C59                    | ISMC100; 3926    | 2            |
|        | PL49                   | PLT 5;229x3950   | 1            |
| 99     | DRG NO: 2-48-012-57710 | DTY-1            | WT/DU-605.95 |
|        | FL19                   | ISA75X75X6; 4010 | 1            |
|        | A66                    | ISA75X75X6; 2309 | 1            |
|        | A68                    | ISA75X75X6; 2309 | 1            |
|        | B69                    | ISMB200; 380     | 1            |

|     |                           |                 |              |
|-----|---------------------------|-----------------|--------------|
|     | B70                       | ISMB200; 1945   | 1            |
|     | C59                       | SMC100; 3926    | 3            |
|     | FJ15                      | PLT 5;125x3950  | 1            |
|     | PL50                      | PLT 5;2298x3950 | 1            |
| 100 | DRG NO:<br>3-48-012-85749 | DTY-1           | WT/DU-63.46  |
|     | PL42                      | PLT 5;275x3100  | 1            |
|     | B73                       | ISMB200; 295    | 1            |
|     | FL22                      | SA75X75X6; 3310 | 1            |
| 101 | DRG NO:<br>3-48-012-85750 | DTY-2           | WT/DU-41.68  |
|     | C57                       | SMC100; 4360    | 1            |
| 102 | DRG NO:<br>3-48-012-85750 | DTY-1           | WT/DU-239.55 |
|     | PL48                      | PLT 5;2443x4300 | 1            |
|     | C60                       | SMC100; 3223    | 1            |
|     | C67                       | SMC100; 1118    | 3            |
|     | FJ16                      | PLT 5;125x1080  | 1            |
|     | FL20                      | SA75X75X6; 4510 | 1            |
| 103 | DRG NO:<br>4-48-012-64292 | DTY-1           | WT/DU-113.31 |
|     | PL46                      | PLT 5;560x3950  | 1            |
|     | FL19                      | SA75X75X6; 4010 | 1            |
| 104 | DRG NO:<br>4-48-012-64293 | DTY-1           | WT/DU-138.58 |
|     | PL46                      | PLT 5;560x3950  | 1            |

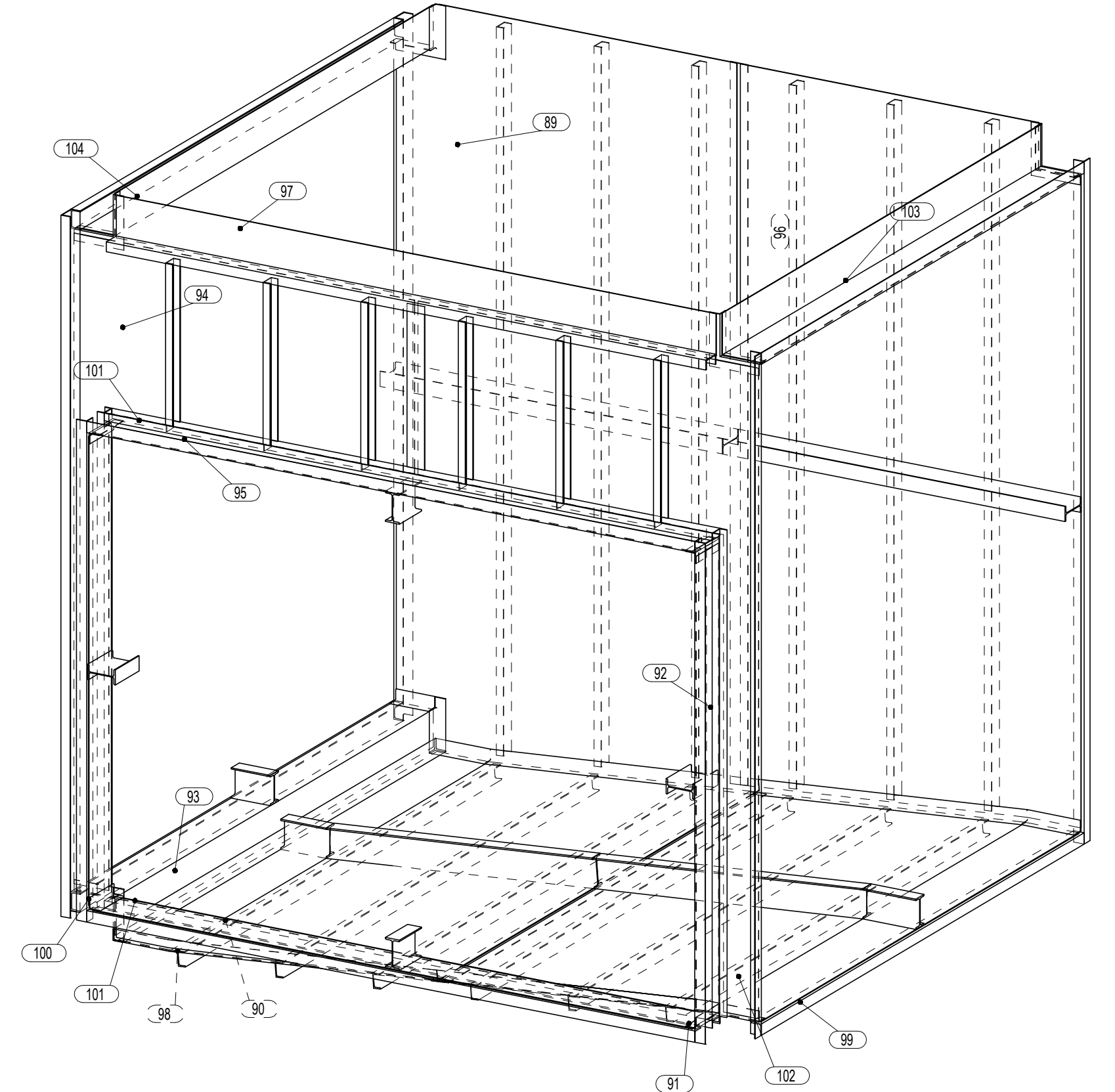


NOTES:

01. FOR GENERAL NOTES REFER PAGE NO.41 (REF.41) OF DUCT CONSTRUCTION MANUAL  
REF. 121 FOR CONSTRUCTION DETAIL

FLANGE DETAILS

| FLANGE NO. | REF    | D    | X   | A | B    | W    | S   | E | F    | N  |
|------------|--------|------|-----|---|------|------|-----|---|------|----|
| FLANGE1    | REF111 | 4385 | 431 | 2 | 1828 | 4010 | 942 | 1 | 914  | 22 |
| FLANGE1    | REF111 | 4360 | 406 | 2 | 1828 | 4010 | 942 | 1 | 914  | 22 |
| FLANGE2    | REF110 | 3160 | 517 | 1 | 914  | 4360 | 406 | 2 | 1828 | 22 |



ISOMETRIC

| PART MARK LEGEND |          |
|------------------|----------|
| XXX              | XXX      |
| NEAR SIDE        | FAR SIDE |

| SUMMARY OF STEEL |             |          |
|------------------|-------------|----------|
| Sr. No.          | DESCRIPTION | TOTAL WT |
| 1                | ISA75X75X6  | 342.27   |
| 2                | ISMB200     | 277.06   |
| 3                | ISMC100     | 703.13   |
| 4                | ISMC125     | 282.83   |
| 5                | PLT 5 THK   | 2425.31  |
| TOTAL IN KGS.    |             | 4030.60  |

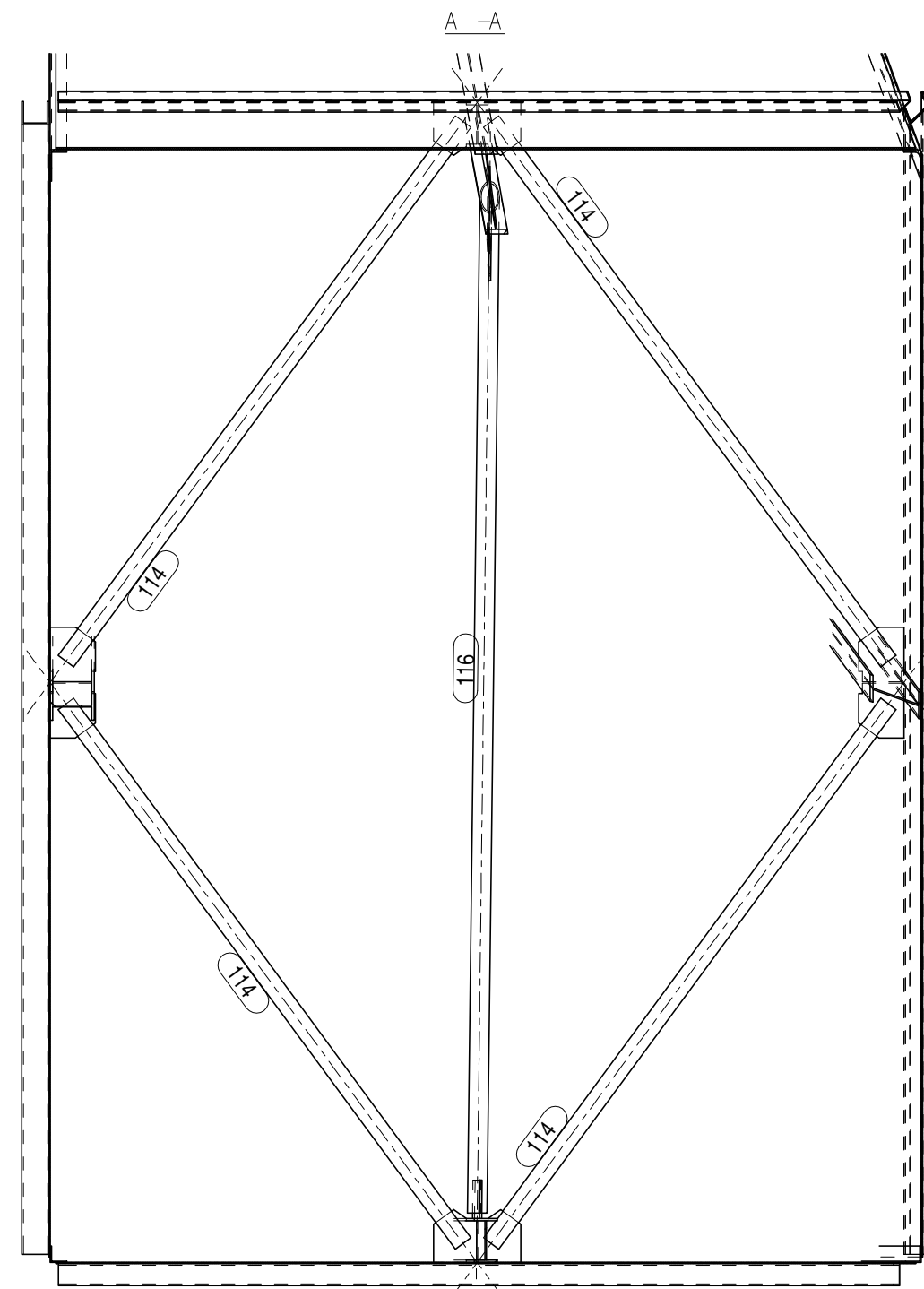
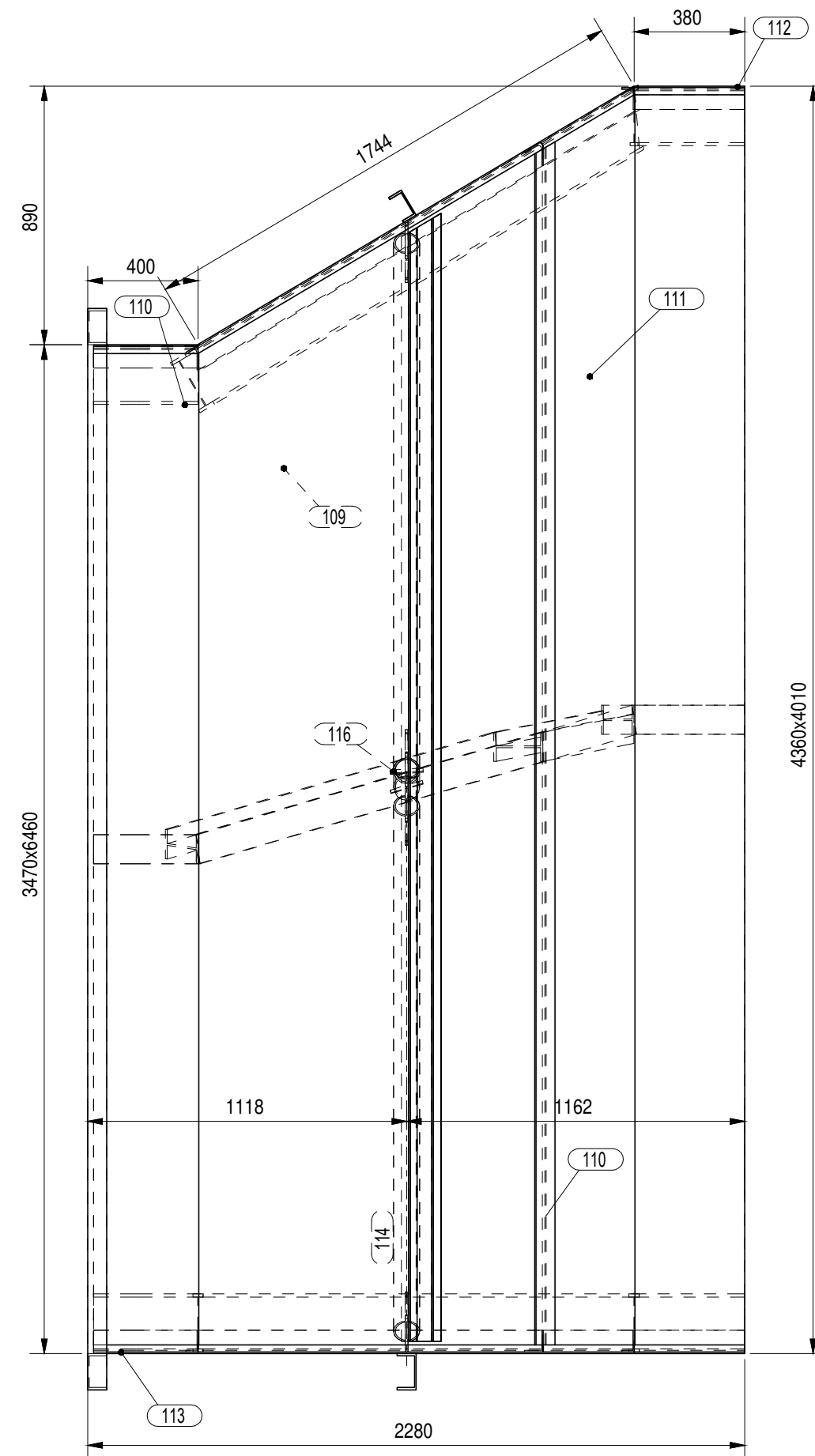
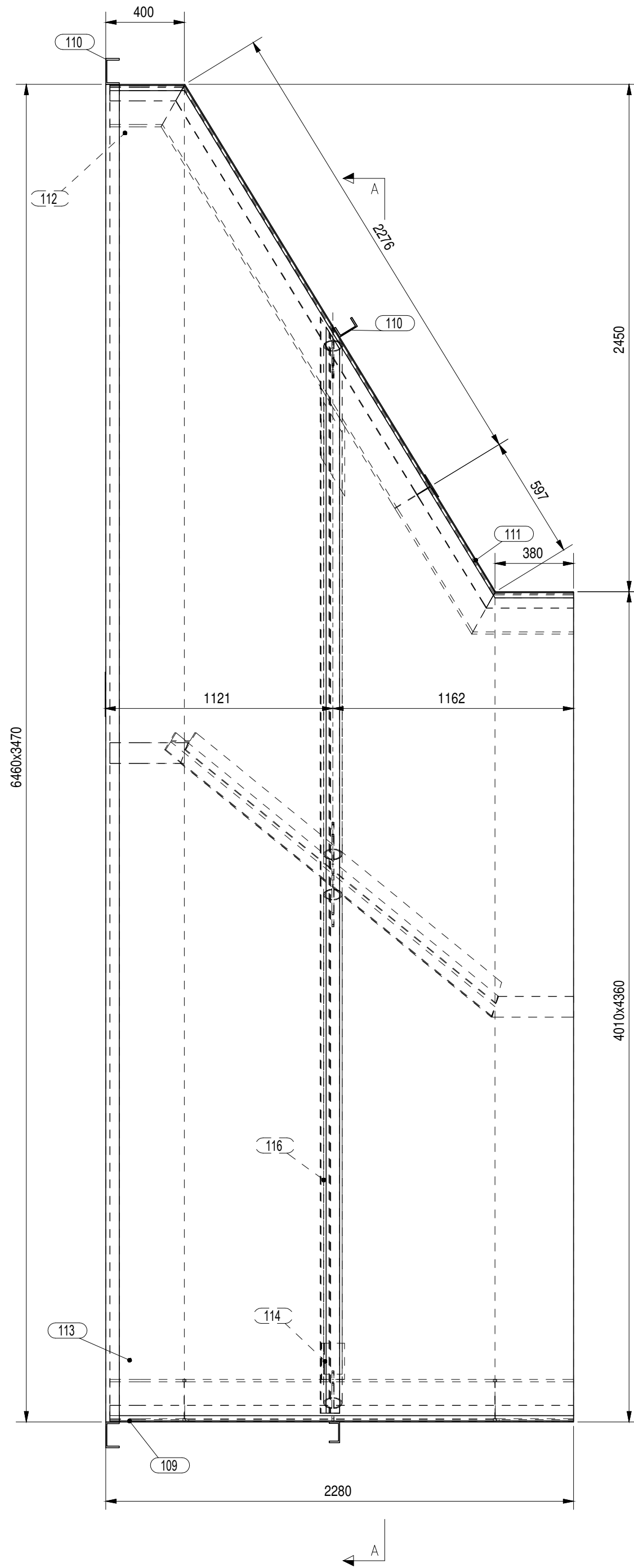
|                                                                                                                                                                                                                           |                                                                                              |                            |                         |                                |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------|-------------------------|--------------------------------|--|
| CAUTION: The information on this document is the property of BHARAT HEAVY ELECTRICALS LTD. It must not be used, directly or indirectly, in any form or by any means, without the prior written permission of the company. | TYPE OF PRODUCT<br>OR NAME OF<br>CUSTOMER/PROJECT                                            |                            |                         |                                |  |
|                                                                                                                                                                                                                           | Bharat Heavy Electricals Ltd.<br>UNIT: HIGH PRESSURE BOILER PLANT<br>TIRUCHIRAPALLI - 620014 |                            |                         |                                |  |
|                                                                                                                                                                                                                           | DRN                                                                                          | NAME<br>VEERA              | SIGNATURE               | DATE<br>29.03.2017             |  |
|                                                                                                                                                                                                                           | CHD                                                                                          | KULA                       |                         | 29.03.2017                     |  |
|                                                                                                                                                                                                                           | APPD                                                                                         | RAMANA                     |                         | 29.03.2017                     |  |
| DEPT<br>CODE<br>124                                                                                                                                                                                                       | 355-053<br>ALL DIMENSIONS<br>ARE IN MM                                                       | PROJECTION<br>SCALE<br>NTS | WEIGHT (Kg)<br>4030.605 | REF TO ASSY / OLD DWG          |  |
| TITLE<br>T DUCT                                                                                                                                                                                                           |                                                                                              |                            |                         | DRAWING NO :<br>1-48-012-43804 |  |
|                                                                                                                                                                                                                           |                                                                                              |                            |                         | REV                            |  |

MODULE NAME: MODULE 11 MODULE QTY: 1

1-48-012-43805  
DRAWING NO.

DESPATCH TABLE

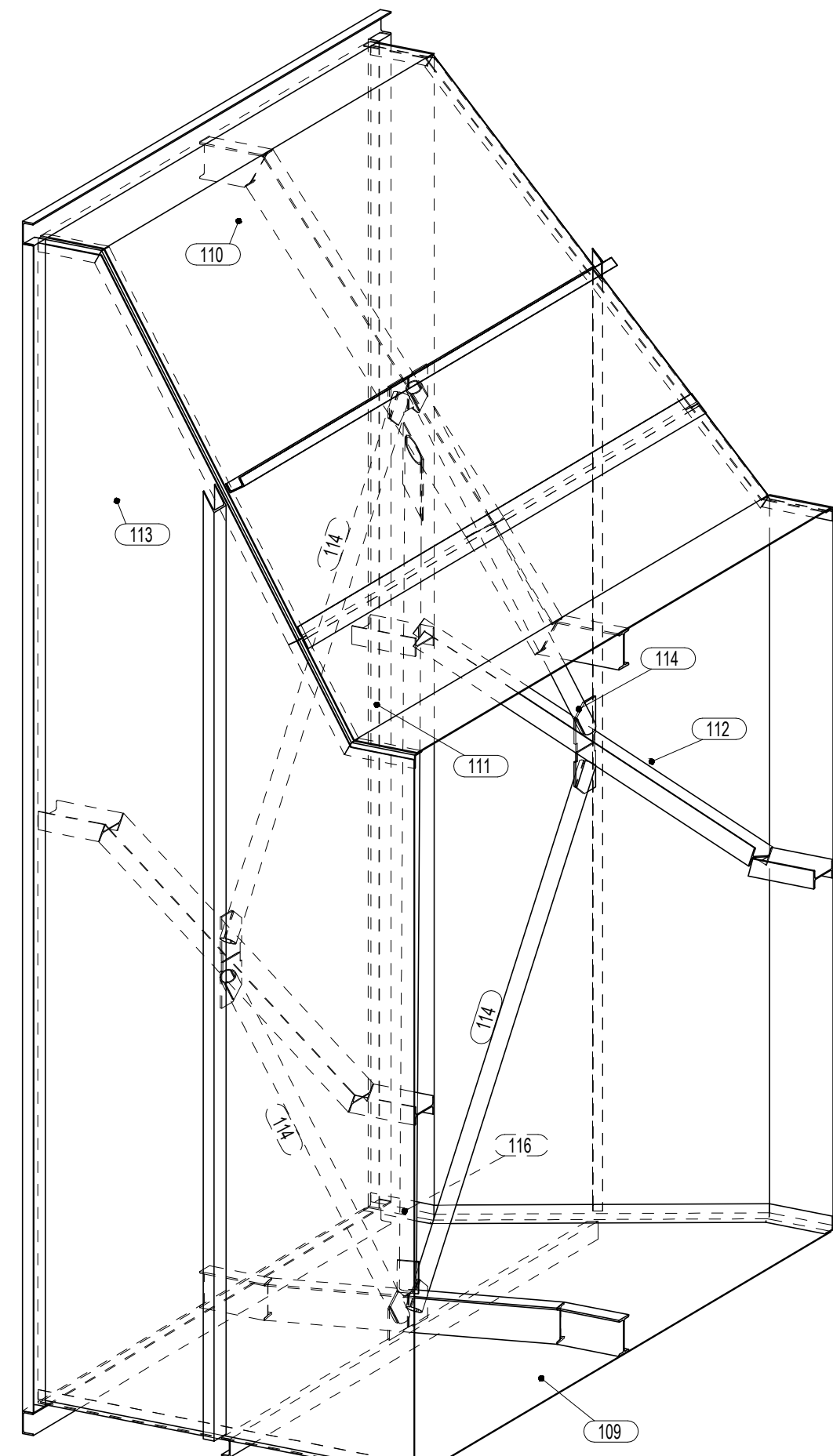
| DU NO.                                    | ITEM NO.            | DESCRIPTION | ITEM QTY. |
|-------------------------------------------|---------------------|-------------|-----------|
| DRG NO: 2-48-012-57711 DTY-1 WT/DU-519.47 |                     |             |           |
| PL64                                      | PLT 5;2260x4300.0   | 1           |           |
| A26                                       | ISA75X75X6; 2504    | 1           |           |
| A33                                       | ISA75X75X6; 2260    | 1           |           |
| B35                                       | ISMB200; 1579       | 1           |           |
| B129                                      | ISMB200; 387        | 2           |           |
| C53                                       | SMC100; 3829        | 1           |           |
| FL34                                      | SMC125; 3720        | 1           |           |
| DRG NO: 2-48-012-57712 DTY-1 WT/DU-634.11 |                     |             |           |
| PL66                                      | PLT 5;2640x4110.0   | 1           |           |
| A27                                       | ISA75X75X6; 380     | 1           |           |
| A29                                       | ISA75X75X6; 380     | 1           |           |
| A32                                       | ISA75X75X6; 2271    | 1           |           |
| B26                                       | ISMB200; 2300       | 1           |           |
| B27                                       | ISMB200; 380        | 1           |           |
| C52                                       | SMC100; 3880        | 2           |           |
| C83                                       | PLATE 6; 150X2400.8 | 1           |           |
| FJ19                                      | PLT 5;125x4139      | 1           |           |
| FL34                                      | SMC125; 3720        | 1           |           |
| DRG NO: 2-48-012-57713 DTY-1 WT/DU-206.44 |                     |             |           |
| PL67                                      | PLT 5;968x4300.0    | 1           |           |
| A28                                       | ISA75X75X6; 422     | 1           |           |
| A30                                       | ISA75X75X6; 422     | 1           |           |
| A31                                       | ISA75X75X6; 640     | 1           |           |
| B28                                       | ISMB200; 492        | 1           |           |
| B29                                       | ISMB200; 725        | 1           |           |
| C82                                       | PLATE 6; 150X684.0  | 1           |           |
| DRG NO: 2-48-012-57714 DTY-1 WT/DU-771.22 |                     |             |           |
| PL63                                      | PLT 5;2504x6400.0   | 1           |           |
| B30                                       | ISMB200; 380        | 1           |           |
| B31                                       | ISMB200; 394        | 1           |           |
| B33                                       | ISMB200; 2247       | 1           |           |
| C54                                       | SMC100; 5294        | 2           |           |
| FL33                                      | SMC125; 6460        | 1           |           |
| DRG NO: 3-48-012-85755 DTY-1 WT/DU-682.71 |                     |             |           |
| PL65                                      | PLT 5;2260x6400.0   | 1           |           |
| B32                                       | ISMB200; 398        | 2           |           |
| B34                                       | ISMB200; 1972       | 1           |           |
| C33                                       | SMC125; 5246        | 1           |           |
| FL33                                      | SMC125; 6460        | 1           |           |
| DRG NO: 3-48-012-85756 DTY-4 WT/DU-40.12  |                     |             |           |
| T16                                       | PIPE88.9*5.49; 3049 | 1           |           |
| GP1                                       | PLT 10;206x249      | 1           |           |
| GP2                                       | PLT 10;196x241      | 1           |           |
| DRG NO: 3-48-012-85758 DTY-1 WT/DU-55.06  |                     |             |           |
| T18                                       | PIPE88.9*5.49; 4695 | 1           |           |
| T1                                        | PLT 10;114x522      | 1           |           |
| T2                                        | PLT 10;114x176      | 1           |           |



NOTES:  
01. FOR GENERAL NOTES REFER PAGE NO.41 (REF.41) OF DUCT CONSTRUCTION MANUAL  
REF. 121 FOR CONSTRUCTION DETAIL

FLANGE DETAILS

| FLANGE NO. | REF    | D    | X   | A | B   | W    | S   | E | F    | N  |
|------------|--------|------|-----|---|-----|------|-----|---|------|----|
| FLANGE1    | REF110 | 3470 | 672 | 1 | 914 | 6460 | 678 | 3 | 2742 | 26 |



ISOMETRIC

| PART MARK LEGEND |          |
|------------------|----------|
| XXX              | XXX      |
| NEAR SIDE        | FAR SIDE |

| SUMMARY OF STEEL |               |          |
|------------------|---------------|----------|
| SR. No.          | DESCRIPTION   | TOTAL WT |
| 1                | ISA75X75X6    | 63.08    |
| 2                | ISMB200       | 305.79   |
| 3                | SMC100        | 212.00   |
| 4                | SMC125        | 335.44   |
| 5                | NEWCORPR64.24 | 22.09    |
| 6                | PIPE88.9*5.49 | 183.68   |
| 7                | PLT 5 THK     | 1875.53  |
| 8                | PLT 10 THK    | 31.85    |
| TOTAL IN KGS.    |               | 3029.46  |

|                                                                                                                                                                                              |                                                                                              |                             |                |                                |           |                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-----------------------------|----------------|--------------------------------|-----------|--------------------|
| CAUTION: The information on this document is the property of BHARAT HEAVY ELECTRICALS LTD. It must not be used directly or indirectly in any form without the prior approval of the company. | TYPE OF PRODUCT<br>OR NAME OF<br>CUSTOMER/PROJECT                                            |                             |                |                                |           |                    |
|                                                                                                                                                                                              | Bharat Heavy Electricals Ltd.<br>UNIT: HIGH PRESSURE BOILER PLANT<br>TIRUCHIRAPALLI - 620014 |                             |                |                                |           |                    |
|                                                                                                                                                                                              | DEPT<br>DUCT                                                                                 | ALL DIMENSIONS<br>ARE IN MM | PROJECTION<br> | SCALE<br>NTS                   |           |                    |
|                                                                                                                                                                                              | CODE<br>124                                                                                  | WEIGHT (Kg)<br>3029.460     |                | REF TO ASSY / OLD DWG          |           |                    |
|                                                                                                                                                                                              | TITLE<br>TRANSITION DUCT                                                                     |                             |                | DRAWING NO :<br>1-48-012-43805 |           |                    |
|                                                                                                                                                                                              |                                                                                              |                             |                | DRN<br>VEERA                   | SIGNATURE | DATE<br>29.03.2017 |
|                                                                                                                                                                                              |                                                                                              |                             |                | CHD<br>KULA                    |           | DATE<br>29.03.2017 |
|                                                                                                                                                                                              |                                                                                              |                             |                | APPD<br>RAMANA                 |           | DATE<br>29.03.2017 |
|                                                                                                                                                                                              |                                                                                              |                             |                | REV                            |           |                    |

MODULE NAME: MODULE 13 MODULE QTY: 1

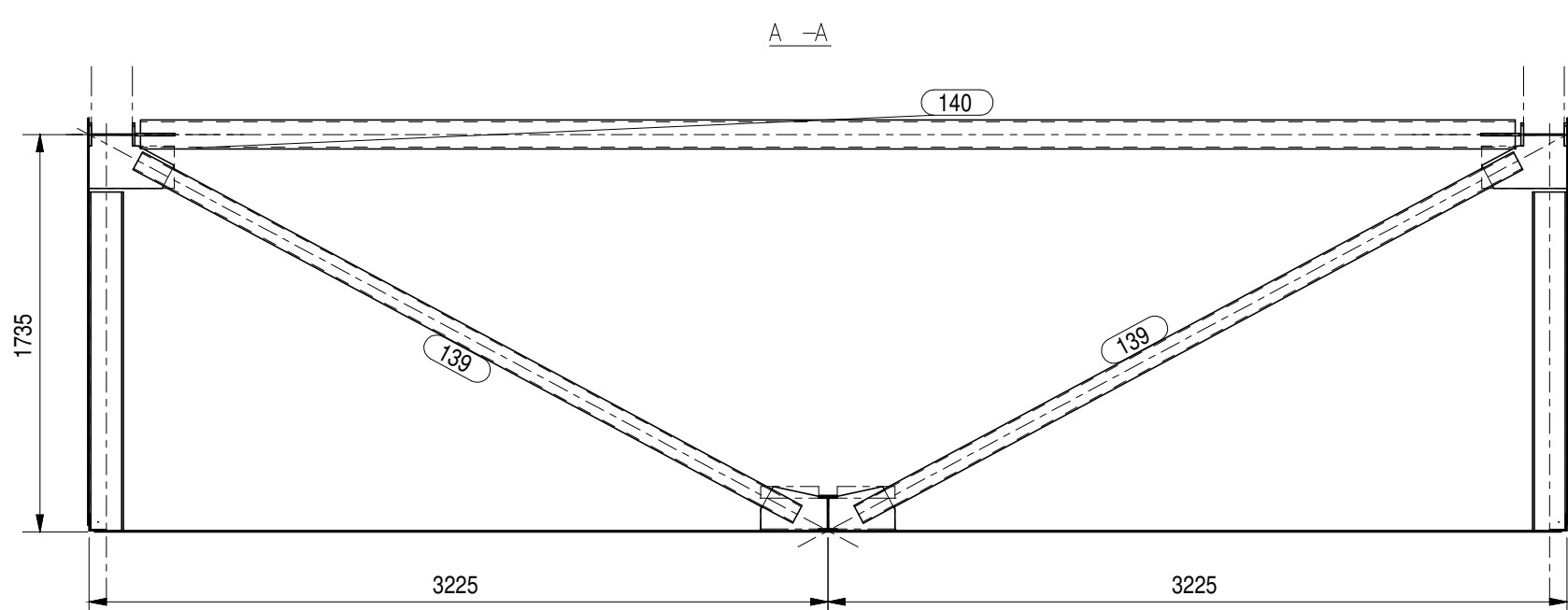
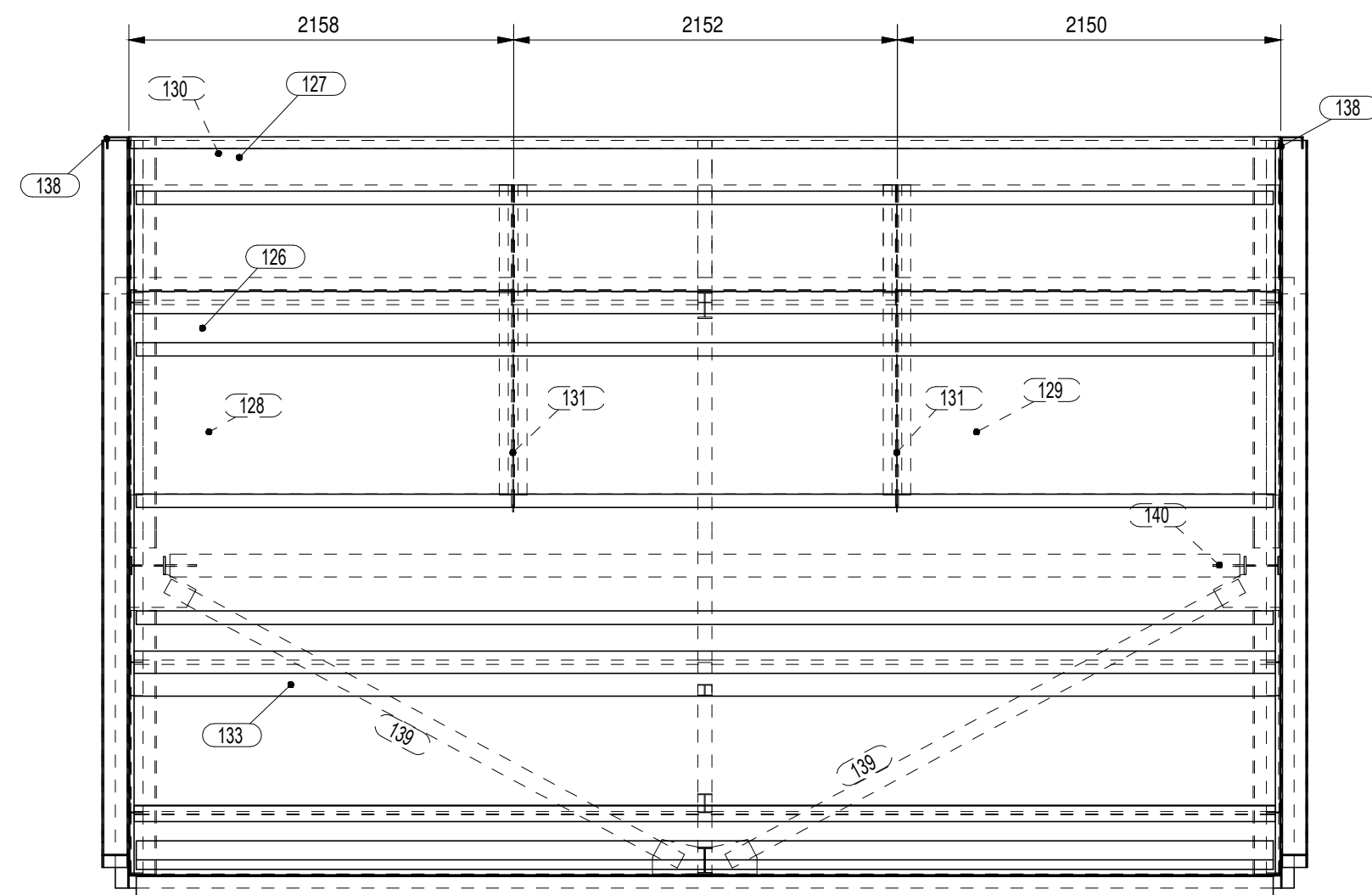
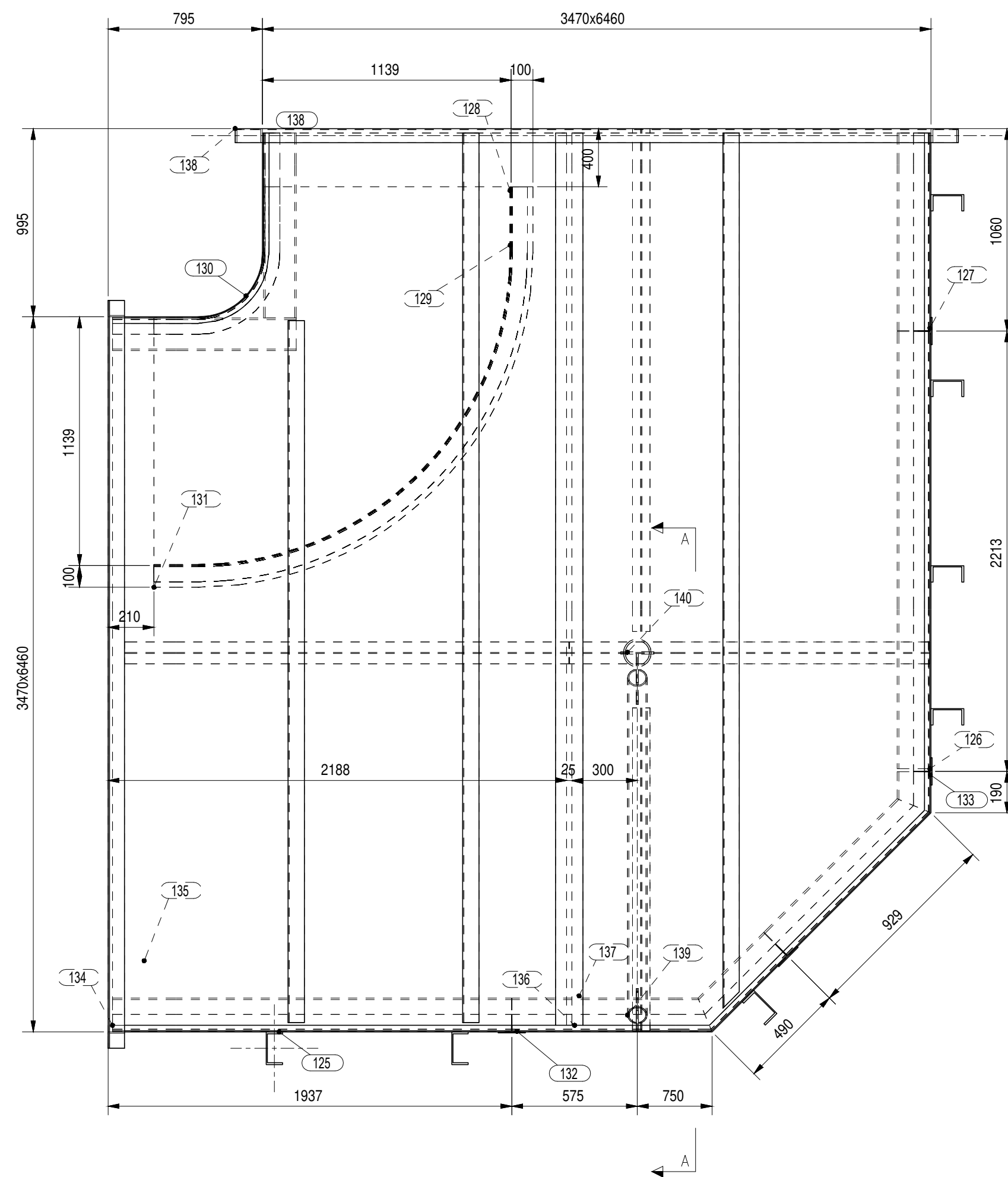


DRAWING NO: 1-48-012-43807

| DESPATCH TABLE |     |
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| 1              | ... |
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| 98             | ... |
| 99             | ... |
| 100            | ... |

| ITEM NO. | DU NO.         | DESCRIPTION        | ITEM QTY. |
|----------|----------------|--------------------|-----------|
| (29)     | 3-48-012-85763 | QTY-1 WT/DU-822.74 |           |
|          | C72            | SMC150; 6376       | 1         |
|          | A72            | SA75X75X6; 1916    | 2         |
|          | B100           | SMB150; 1916       | 1         |
|          | C72            | SMC150; 6376       | 1         |
|          | FJ23           | PLT 5;125x6400     | 1         |
|          | A72            | SA75X75X6; 6460    | 1         |
|          | PL94           | PLT 5;1905x6400    | 1         |
| (29)     | 3-48-012-85764 | QTY-1 WT/DU-996.67 |           |
|          | PL95           | PLT 5;2188x6400    | 1         |
|          | A73            | SA75X75X6; 2210    | 2         |
|          | B99            | SMB150; 2199       | 1         |
|          | C72            | SMC150; 6376       | 3         |
|          | FJ23           | PLT 5;125x6400     | 2         |
| (29)     | 3-48-012-85765 | QTY-1 WT/DU-479.55 |           |
|          | PL96           | PLT 5;1028x6400    | 1         |
|          | A74            | SA75X75X6; 1039    | 2         |
|          | B96            | SMB150; 1039       | 1         |
|          | C72            | SMC150; 6376       | 1         |
|          | FL38           | SMC125; 6460       | 1         |
| (29)     | 3-48-012-85766 | QTY-2 WT/DU-272.10 |           |
|          | GV5            | PLT 5;2098;2840    | 1         |
|          | A75            | SA75X75X6; 2840    | 1         |
|          | A76            | SA75X75X6; 2840    | 1         |
| (29)     | 3-48-012-85767 | QTY-1 WT/DU-271.82 |           |
|          | GV6            | PLT 5;2095;2840    | 1         |
|          | A75            | SA75X75X6; 2840    | 1         |
|          | A76            | SA75X75X6; 2840    | 1         |
| (30)     | 3-48-012-85779 | QTY-1 WT/DU-587.65 |           |
|          | PL83           | PLT 5;1630x6400    | 1         |
|          | A77            | SA75X75X6; 1630    | 1         |
|          | A78            | SA75X75X6; 1630    | 1         |
|          | B101           | SMB150; 930        | 1         |
|          | B102           | SMB150; 930        | 1         |
|          | FL27           | SA75X75X6; 6460    | 1         |
|          | FL38           | SMC125; 6460       | 1         |
| (31)     | 3-48-012-85768 | QTY-2 WT/DU-104.29 |           |
|          | DP1            | PLT 5;1824x1834    | 1         |
|          | A79            | SA75X75X6; 1060    | 1         |
| (32)     | 3-48-012-85770 | QTY-1 WT/DU-639.24 |           |
|          | PL85           | PLT 5;1785x6400    | 1         |
|          | A80            | SA75X75X6; 1807    | 1         |
|          | A81            | SA75X75X6; 1807    | 1         |
|          | B94            | SMB150; 1322       | 1         |
|          | B95            | SMB150; 486        | 1         |
|          | C72            | SMC150; 6376       | 1         |
|          | FJ23           | PLT 5;125x6400     | 1         |
| (33)     | 3-48-012-85769 | QTY-1 WT/DU-305.91 |           |
|          | PL84           | PLT 5;1089x6400    | 1         |
|          | A82            | SA75X75X6; 1111    | 1         |
|          | A83            | SA75X75X6; 1111    | 1         |
|          | B97            | SMB150; 186        | 1         |
|          | B98            | SMB150; 925        | 1         |
| (34)     | 3-48-012-85771 | QTY-1 WT/DU-576.26 |           |
|          | PL81           | PLT 5;2168x4415    | 1         |
|          | B76            | SMB200; 2124       | 1         |
|          | C73            | SMC150; 3411       | 1         |
|          | C74            | SMC150; 4415       | 1         |
|          | FJ24           | PLT 5;125x4415     | 1         |
|          | FL28           | SA75X75X6; 3620    | 1         |
| (39)     | 3-48-012-85771 | QTY-1 WT/DU-576.26 |           |
|          | PL81           | PLT 5;2168x4415    | 1         |
|          | B76            | SMB200; 2124       | 1         |
|          | C73            | SMC150; 3411       | 1         |
|          | C74            | SMC150; 4403       | 1         |

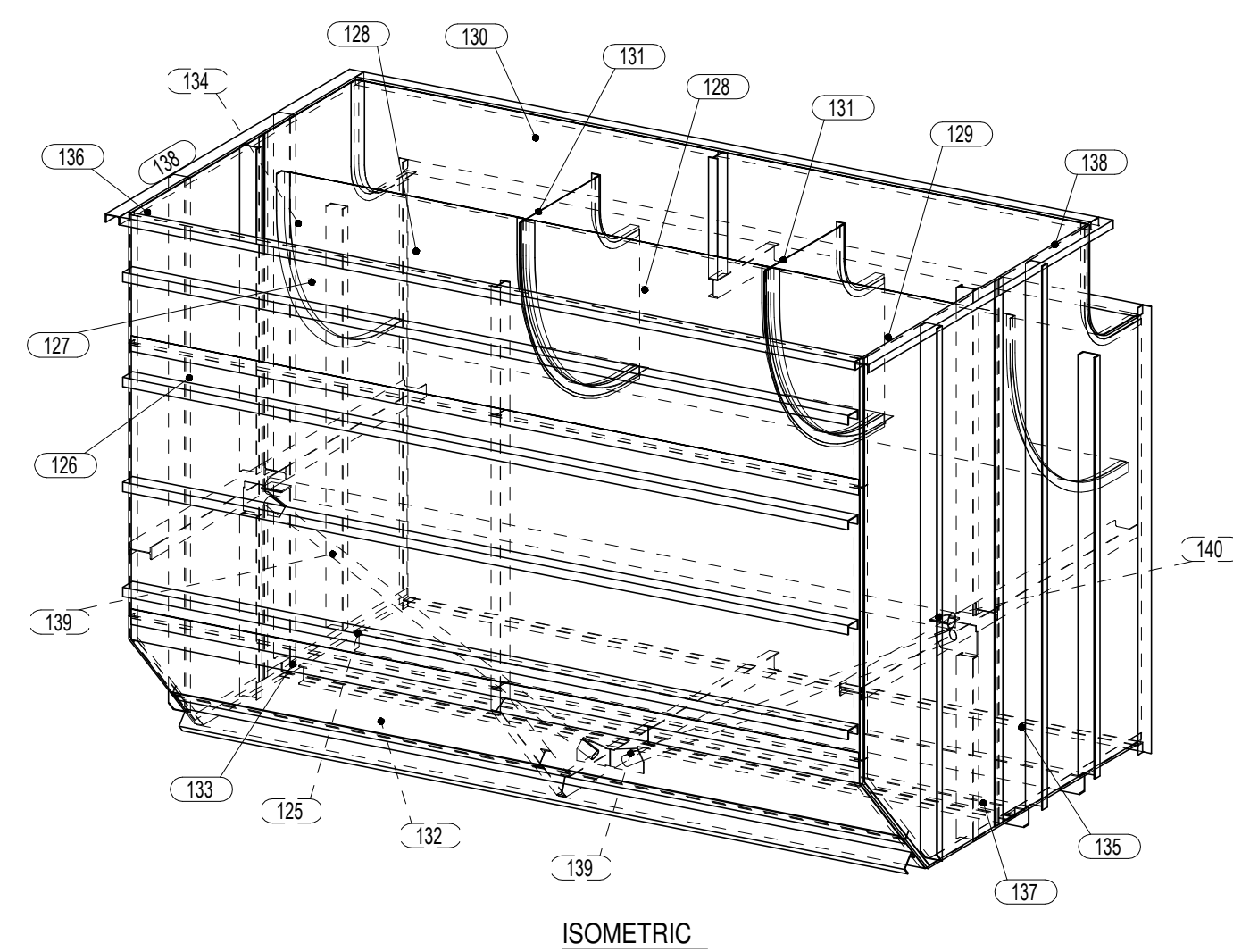
|      |                           |                     |              |
|------|---------------------------|---------------------|--------------|
|      | J24                       | PLT 5;125x4415      | 1            |
|      | L28                       | ISA75X75M6; 3620    | 1            |
| (36) | DRG NO:<br>1-48-012-B5772 | QTY-1               | WT/DU-518.24 |
|      | P.L82                     | PLT 5;2023x4415     | 1            |
|      | B77                       | SMB200; 2059        | 1            |
|      | B92                       | SMB150; 1479        | 1            |
|      | B93                       | SMB150; 2631        | 1            |
|      | C75                       | SMC150; 4336        | 1            |
| (37) | DRG NO:<br>1-48-012-B5773 | QTY-1               | WT/DU-518.24 |
|      | P.L82                     | PLT 5;2023x4415     | 1            |
|      | B77                       | SMB200; 2059        | 1            |
|      | B92                       | SMB150; 1479        | 1            |
|      | B93                       | SMB150; 2631        | 1            |
|      | C75                       | SMC150; 4336        | 1            |
| (38) | DRG NO:<br>1-48-012-B5774 | QTY-2               | WT/DU-48.73  |
|      | L.F37                     | SMC125; 3720        | 1            |
| (39) | DRG NO:<br>1-48-012-B5774 | QTY-2               | WT/DU-44.70  |
|      | T21                       | PIFE88.9x5.49; 3267 | 1            |
|      | GU21                      | PLT 10;232x372      | 1            |
|      | GU22                      | PLT 10;193x290      | 1            |
| (40) | DRG NO:<br>1-48-012-B5775 | QTY-1               | WT/DU-142.36 |
|      | GU32                      | PLT 10;152x175      | 1            |
|      | GU32                      | PLT 10;152x175      | 1            |



NOTES:

01. FOR GENERAL NOTES REFER PAGE NO.41 (REF.41) OF DUCT CONSTRUCTION MANUAL  
REF. 121 FOR CONSTRUCTION DETAIL

| FLANGE DETAILS |        |      |     |   |     |      |     |   |      |    |
|----------------|--------|------|-----|---|-----|------|-----|---|------|----|
| FLANGE NO.     | REF    | D    | X   | A | B   | W    | S   | E | F    | N  |
| FLANGE1        | REF110 | 3470 | 672 | 1 | 914 | 6460 | 678 | 3 | 2742 | 26 |

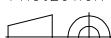


**PART MARK LEGEND**

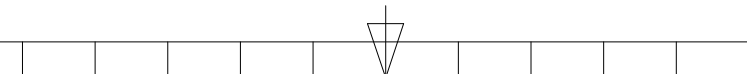
|                                                                                       |                                                                                       |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |
| NEAR SIDE                                                                             | FAR SIDE                                                                              |

| SUMMARY OF STEEL |               |          |
|------------------|---------------|----------|
| Sr. No.          | DESCRIPTION   | TOTAL WT |
| 1                | ISA75X75X6    | 399.37   |
| 2                | ISMB150       | 273.02   |
| 3                | ISMB200       | 212.45   |
| 4                | ISMC125       | 266.72   |
| 5                | ISMC150       | 1158.07  |
| 6                | PIPE88.9*5.49 | 71.38    |
| 7                | PIPE127*8     | 138.18   |
| 8                | PLT 5 THK     | 4833.20  |
| 9                | PLT 10 THK    | 22.19    |
| TOTAL IN KGS.    |               | 7374.57  |

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|                                                                                                                                                                                                             |                             |                                                                                                     |              |                         |                                |               |           |                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------|--------------|-------------------------|--------------------------------|---------------|-----------|--------------------|
| TYPE OF PRODUCT<br>OR NAME OF<br>CUSTOMER/PROJECT                                                                                                                                                           |                             |                                                                                                     |              |                         |                                |               |           |                    |
| <div> Bharat Heavy Electricals Ltd.<br/>UNIT: HIGH PRESSURE BOILER PLANT<br/>TIRUCHIRAPALLI – 620014<br/>355-053</div> |                             |                                                                                                     |              |                         | DRN                            | NAME<br>VEERA | SIGNATURE | DATE<br>29.03.2017 |
|                                                                                                                                                                                                             |                             |                                                                                                     |              |                         | CHD                            | KULA          |           | 29.03.2017         |
|                                                                                                                                                                                                             |                             |                                                                                                     |              |                         | APSD                           | RAMANA        |           | 29.03.2017         |
|                                                                                                                                                                                                             |                             |                                                                                                     |              |                         | REF TO ASSY / OLD DWG          |               |           |                    |
| DEPT<br>DUCT                                                                                                                                                                                                | ALL DIMENSIONS<br>ARE IN MM | PROJECTION<br> | SCALE<br>NTS | WEIGHT (Kg)<br>7374.571 |                                |               |           |                    |
| CODE<br>124                                                                                                                                                                                                 |                             |                                                                                                     |              |                         | DRAWING NO :<br>1-48-012-43807 |               |           |                    |
| TITLE<br><br>ELBOW DUCT                                                                                                                                                                                     |                             |                                                                                                     |              |                         | RE                             |               |           |                    |

MODULE NAME: MODULE 15 MODULE QTY: 2





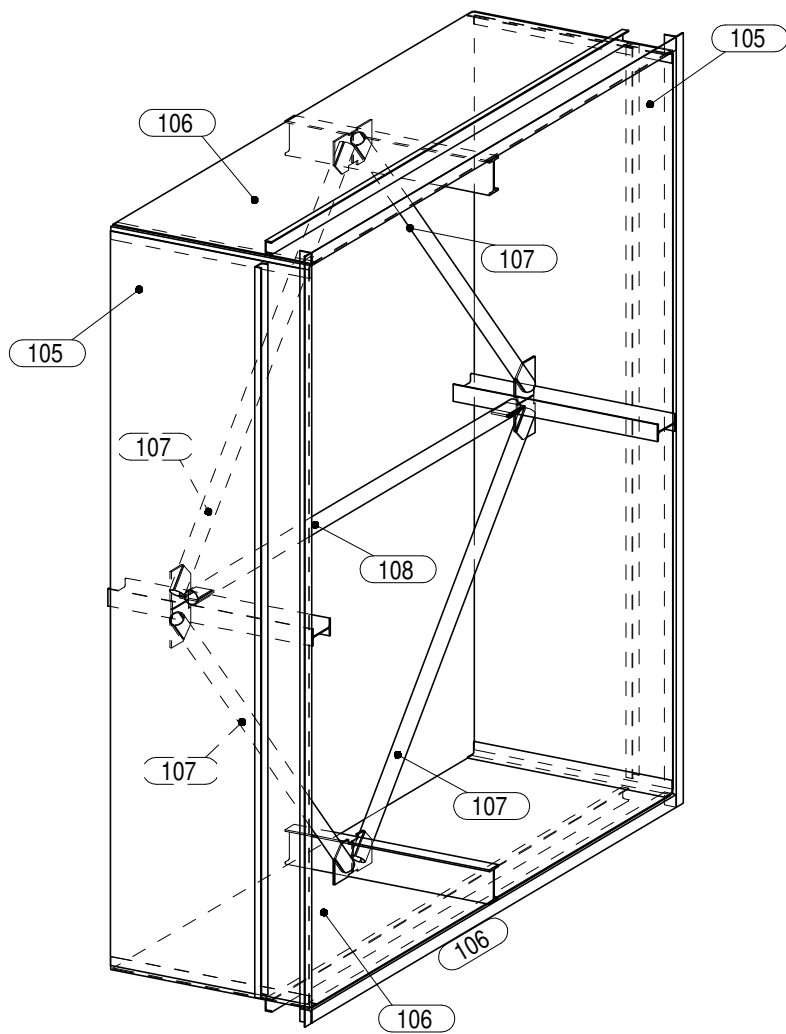
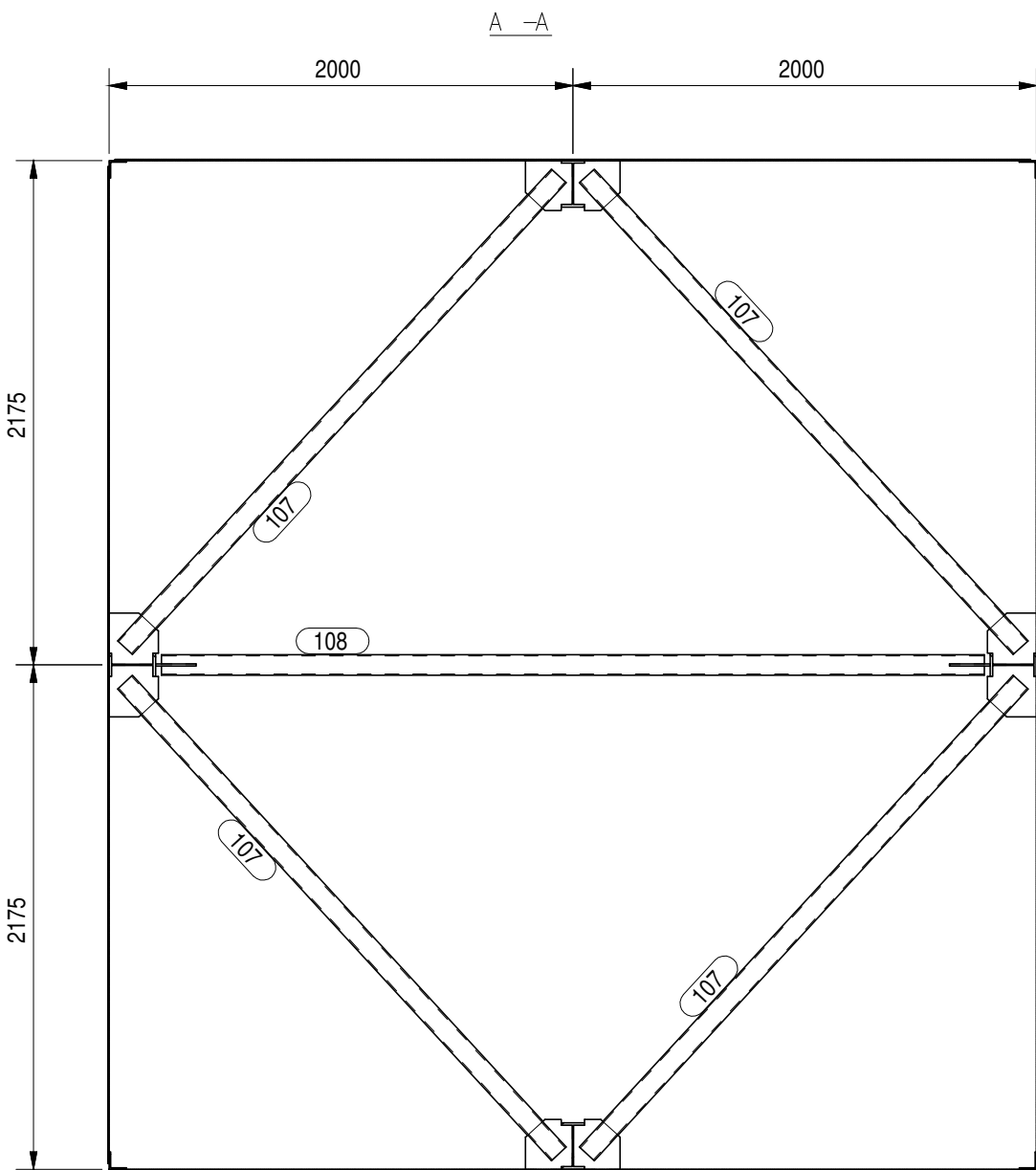
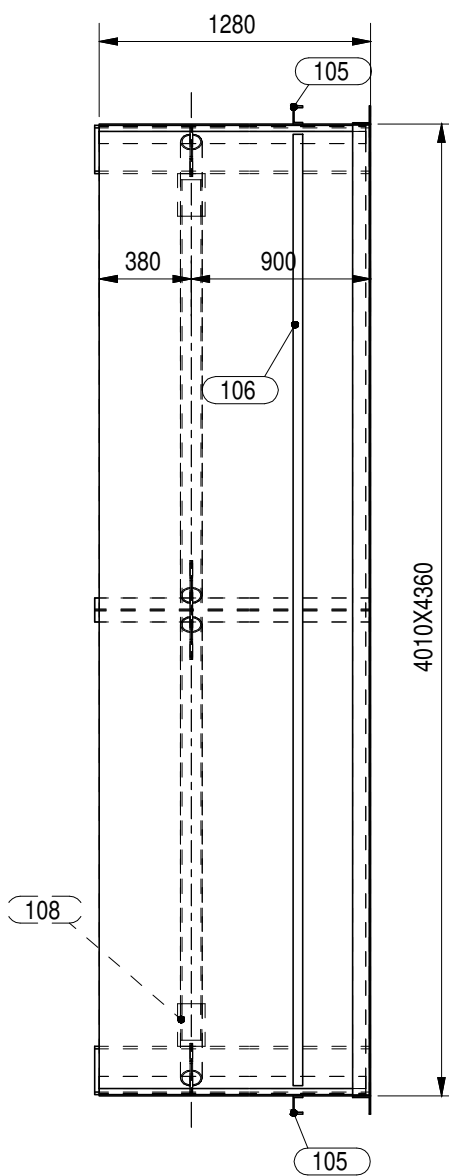
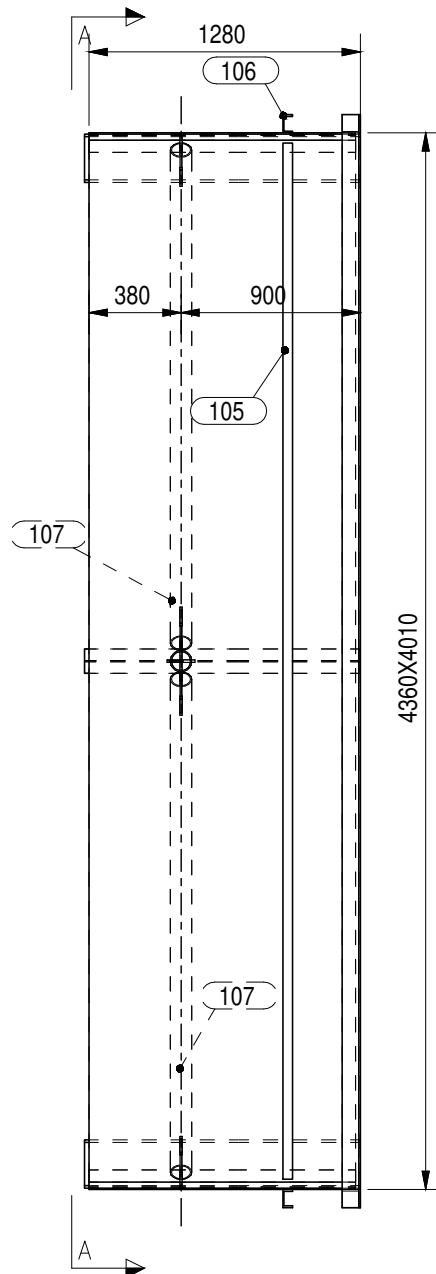
2-48-012-57724

DRAWING NO.

FOR TOLERANCES OF UNTOLERANCED  
DIMENSIONS DURING MANUFACTURE  
REFER PLANT STD. NO TP 023 0299

DESPATCH TABLE

| DU NO.                                    | ITEM NO. | DESCRIPTION         | ITEM QTY. |
|-------------------------------------------|----------|---------------------|-----------|
| DRG NO: 3-48-012-B5751 QTY-2 WT/DU-323.92 |          |                     |           |
|                                           | PL53     | PLT 5;1260x4300     | 1         |
|                                           | A70      | ISA75X75X6; 1260    | 2         |
|                                           | B75      | ISMB200; 1297       | 1         |
|                                           | C31      | SMC75; 4276         | 1         |
|                                           | FL24     | ISA75X75X6; 4510    | 1         |
| DRG NO: 3-48-012-B5752 QTY-2 WT/DU-283.58 |          |                     |           |
|                                           | PL54     | PLT 5;1260x3950     | 1         |
|                                           | B75      | ISMB200; 1297       | 1         |
|                                           | C30      | SMC75; 3926         | 1         |
|                                           | FL23     | ISA75X75X6; 4010    | 1         |
| DRG NO: 3-48-012-B5753 QTY-4 WT/DU-36.46  |          |                     |           |
|                                           | T19      | PIPE88.9*5.49; 2764 | 1         |
|                                           | GU19     | PLT 10;201x215      | 1         |
|                                           | GU20     | PLT 10;212x221      | 1         |
| DRG NO: 3-48-012-B5754 QTY-1 WT/DU-41.94  |          |                     |           |
|                                           | GU31     | PLT 10;114x175      | 1         |
|                                           | GU31     | PLT 10;114x175      | 1         |
|                                           | T20      | PIPE88.9*5.49; 3550 | 1         |



ISOMETRIC

| PART MARK LEGEND |          |
|------------------|----------|
| XXX              | XXX      |
| NEAR SIDE        | FAR SIDE |

SUMMARY OF STEEL

| SR. No.       | DESCRIPTION   | TOTAL WT |
|---------------|---------------|----------|
| 1             | ISA75X75X6    | 150.10   |
| 2             | ISMB200       | 131.78   |
| 3             | ISMC75        | 117.12   |
| 4             | PIPE88.9*5.49 | 159.45   |
| 5             | PLT 5 THK     | 816.01   |
| 6             | PLT 10 THK    | 28.32    |
| TOTAL IN KGS. |               | 1402.78  |

MODULE NAME: MODULE 12 MODULE QTY: 2

NOTES:

01. FOR GENERAL NOTES REFER PAGE NO.41 (REF.41) OF DUCT CONSTRUCTION MANUAL  
REF. 121 FOR CONSTRUCTION DETAIL

FLANGE DETAILS

| FLANGE NO. | REF    | D    | X   | A | B    | W    | S   | E | F   | N  |
|------------|--------|------|-----|---|------|------|-----|---|-----|----|
| FLANGE1    | REF111 | 4360 | 406 | 2 | 1828 | 4010 | 942 | 1 | 914 | 22 |

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TYPE OF PRODUCT  
OR NAME OF  
CUSTOMER/PROJECT



Bharat Heavy Electricals Ltd.  
UNIT: HIGH PRESSURE BOILER PLANT  
TIRUCHIRAPALLI - 620014

DEPT  
DUCT  
CODE  
124

ALL DIMENSIONS  
ARE IN MM

PROJECTION  
SCALE  
NTS

WEIGHT (Kg)  
1402.777

|      |               |           |                    |
|------|---------------|-----------|--------------------|
| DRN  | NAME<br>VEERA | SIGNATURE | DATE<br>29.03.2017 |
| CHD  | KULA          |           | 29.03.2017         |
| APPD | RAMANA        |           | 29.03.2017         |

TITLE  
STRAIGHT DUCT

DRAWING NO :  
2-48-012-57724

REV

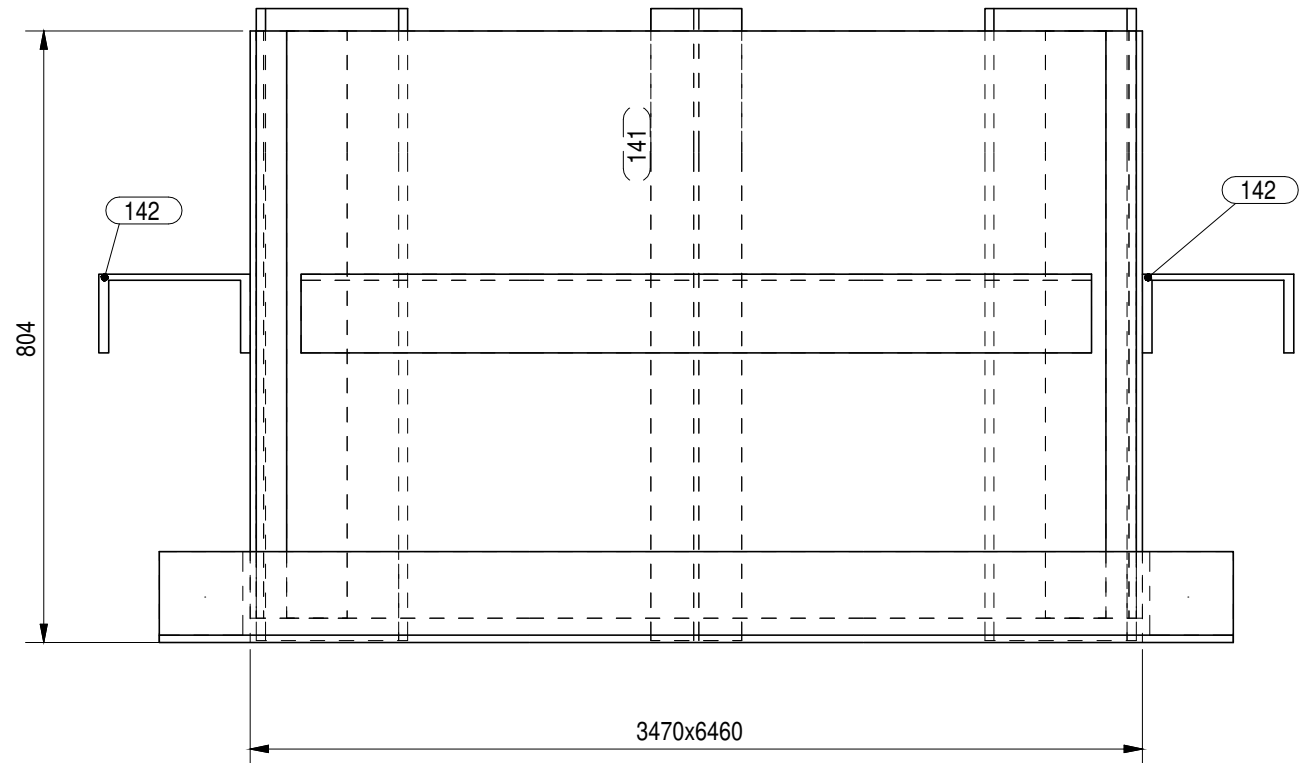
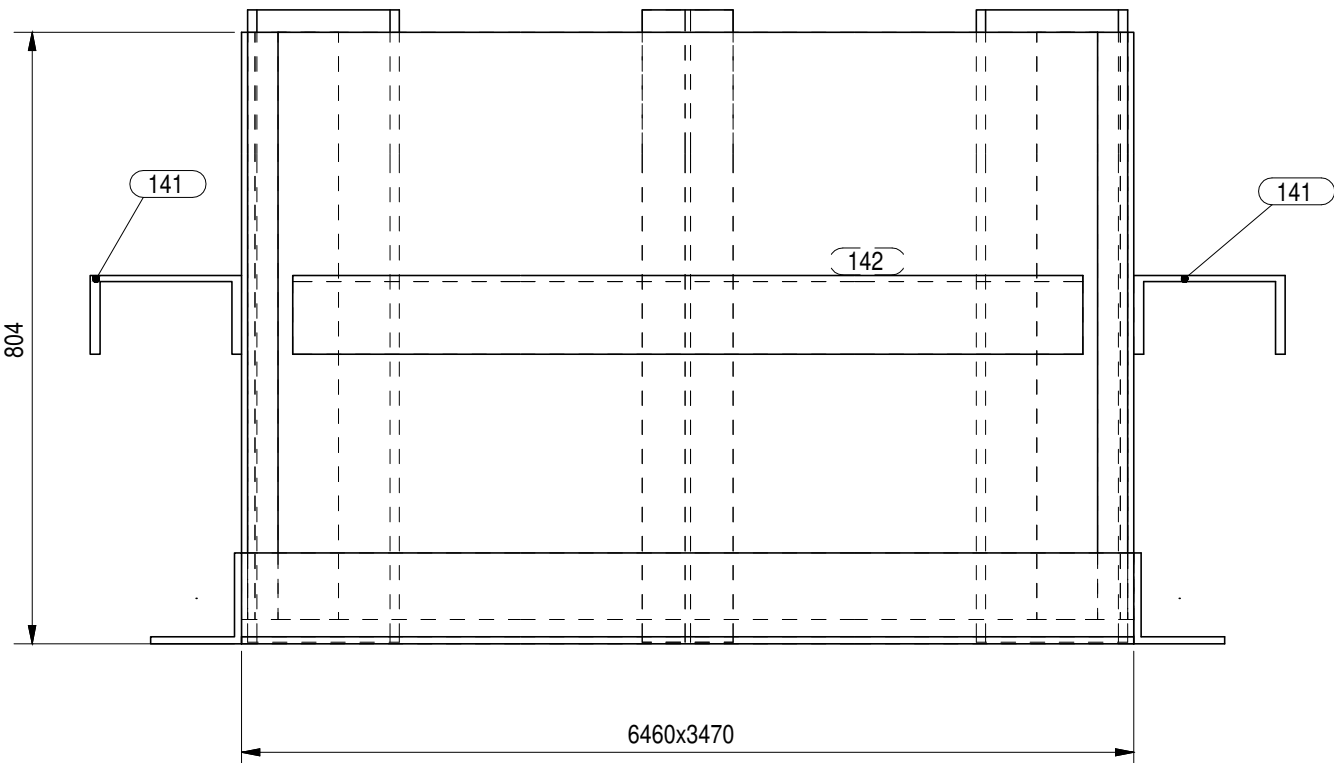
2-48-012-57725

DRAWING NO:

FOR TOLERANCES OF UNTOLERANCED  
DIMENSIONS DURING MANUFACTURE  
REFER PLANT STD. NO TP 023 0299

DESPATCH TABLE

| DU NO.                                          | ITEM NO. | DESCRIPTION     | ITEM QTY. |
|-------------------------------------------------|----------|-----------------|-----------|
| (141) DRG NO: 3-48-012-B5776 QTY-2 WT/DU-195.56 |          |                 |           |
|                                                 | PL55     | PLT 5; 784x3410 | 1         |
|                                                 | A71      | SA75X75X6; 784  | 2         |
|                                                 | B91      | ISMB125; 821    | 1         |
|                                                 | C39      | ISMC125; 3386   | 1         |
|                                                 | FL26     | SA75X75X6; 3620 | 1         |
| (142) DRG NO: 3-48-012-B5777 QTY-2 WT/DU-335.38 |          |                 |           |
|                                                 | PL56     | PLT 5; 784x6400 | 1         |
|                                                 | B91      | ISMB125; 821    | 1         |
|                                                 | C38      | ISMC125; 6376   | 1         |
|                                                 | FL25     | SA75X75X6; 6460 | 1         |



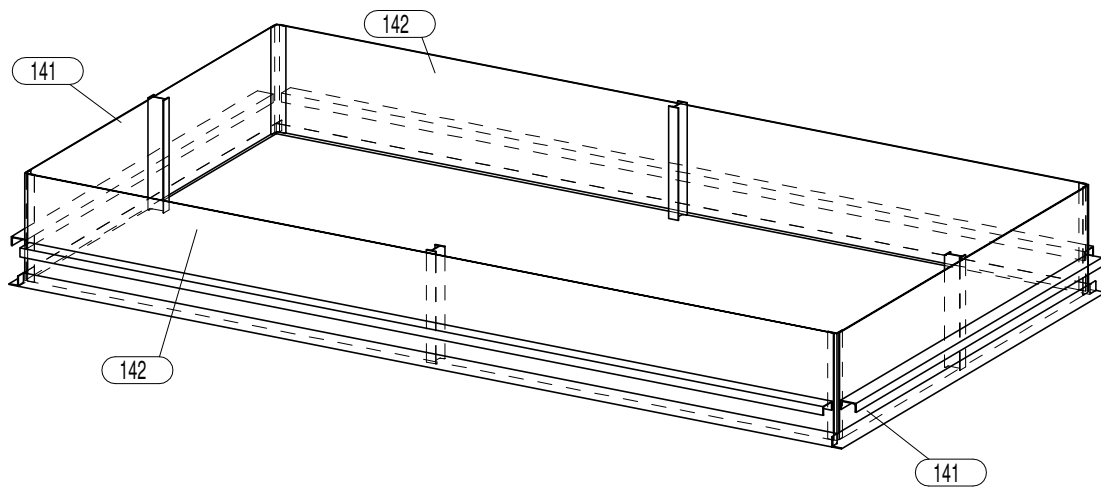
MODULE NAME: MODULE 16 MODULE QTY: 2

NOTES:

01. FOR GENERAL NOTES REFER PAGE NO.41 (REF.41) OF DUCT CONSTRUCTION MANUAL  
REF. 121 FOR CONSTRUCTION DETAIL

FLANGE DETAILS

| FLANGE NO. | REF    | D    | X   | A | B   | W    | S   | E | F    | N  |
|------------|--------|------|-----|---|-----|------|-----|---|------|----|
| FLANGE1    | REF110 | 3470 | 672 | 1 | 914 | 6460 | 678 | 3 | 2742 | 26 |



ISOMETRIC

PART MARK LEGEND



SUMMARY OF STEEL

| SR. No.       | DESCRIPTION | TOTAL WT |
|---------------|-------------|----------|
| 1             | ISA75X75X6  | 158.37   |
| 2             | ISMB125     | 44.01    |
| 3             | ISMC125     | 255.76   |
| 4             | PLT 5 THK   | 603.75   |
| TOTAL IN KGS. |             | 1061.89  |

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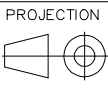
TYPE OF PRODUCT  
OR NAME OF  
CUSTOMER/PROJECT



Bharat Heavy Electricals Ltd.  
UNIT: HIGH PRESSURE BOILER PLANT  
TIRUCHIRAPALLI - 620014

DEPT  
DUCT  
CODE  
124

ALL DIMENSIONS  
ARE IN MM



SCALE

NTS

WEIGHT (Kg)  
1061.885

REF TO ASSY / OLD DWG

|      |               |           |                    |
|------|---------------|-----------|--------------------|
| DRN  | NAME<br>VEERA | SIGNATURE | DATE<br>29.03.2017 |
| CHD  | KULA          |           | 29.03.2017         |
| APPD | RAMANA        |           | 29.03.2017         |

TITLE

STRAIGHT DUCT

DRAWING NO :

2-48-012-57725

REV

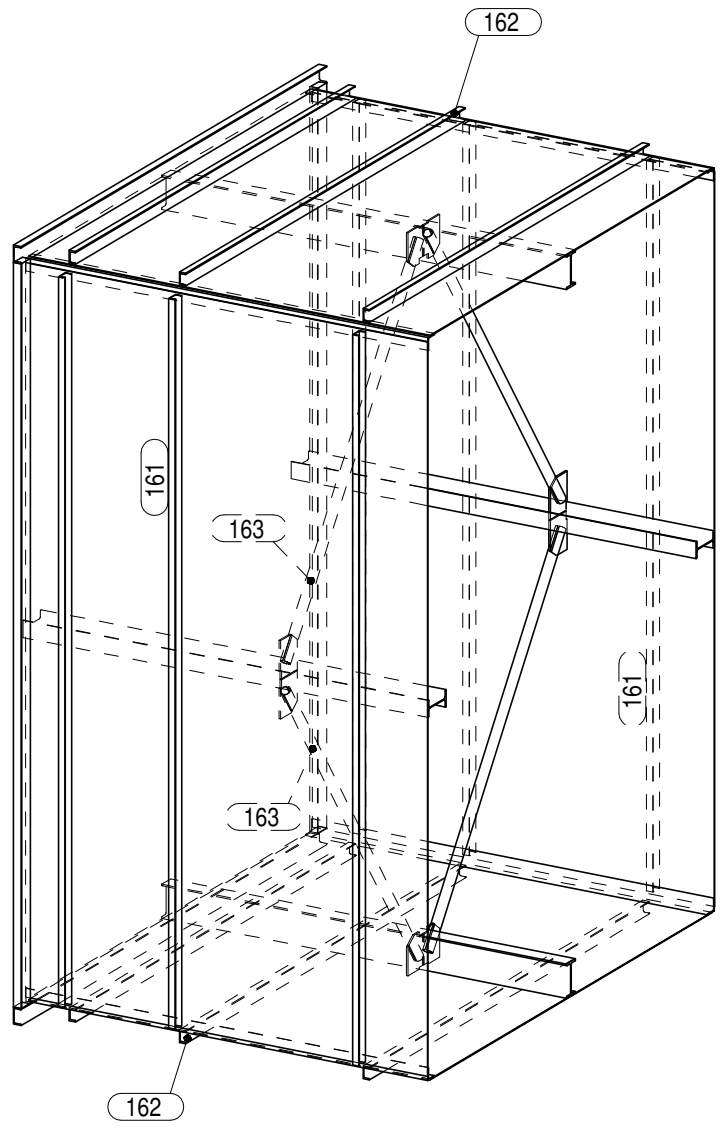
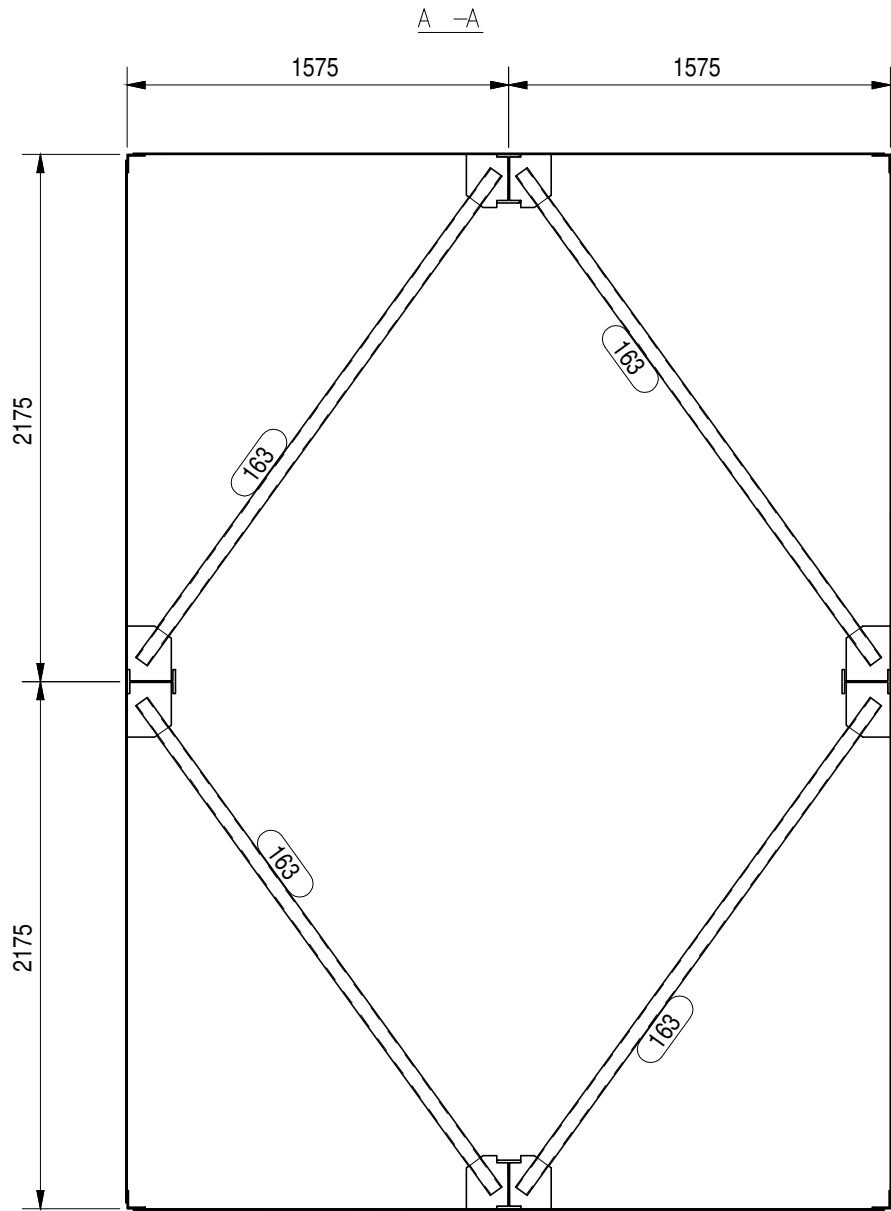
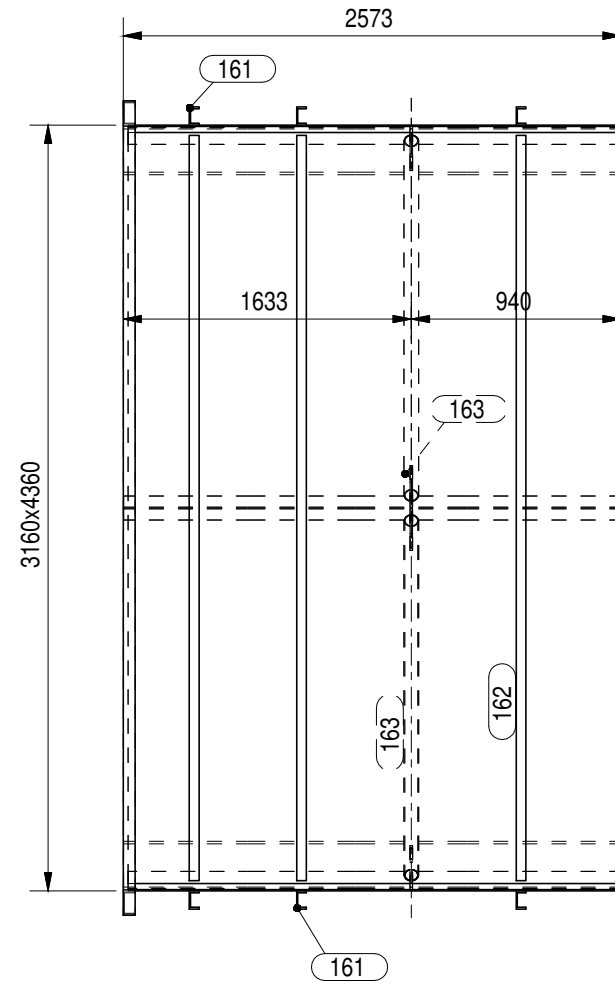
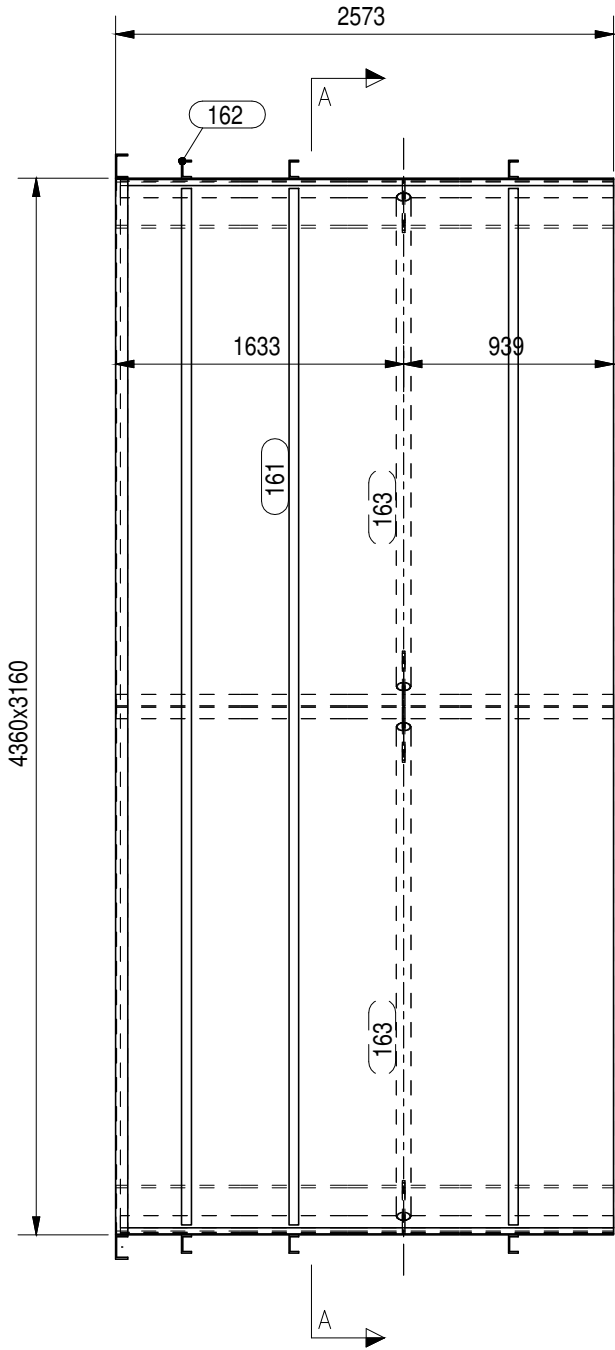
2-48-012-57726

DRAWING NO.

FOR TOLERANCES OF UNTOLERANCED  
DIMENSIONS DURING MANUFACTURE  
REFER PLANT STD. NO TP 023 0299

DESPATCH TABLE

| DU NO.                                         | ITEM NO.          | DESCRIPTION | ITEM QTY. |
|------------------------------------------------|-------------------|-------------|-----------|
| (16) DRG NO: 3-48-012-B5794 QTY-2 WT/DU-664.08 |                   |             |           |
| PL52                                           | PLT 5;2553x4300   | 1           |           |
| A69                                            | ISA75X75X6; 2552  | 2           |           |
| B74                                            | ISMB200; 2571     | 1           |           |
| C27                                            | SMC75; 4276       | 3           |           |
| FL52                                           | SMC100; 4360      | 1           |           |
| (16) DRG NO: 3-48-012-B5795 QTY-2 WT/DU-473.89 |                   |             |           |
| FL51                                           | SMC100; 3360      | 1           |           |
| PL51                                           | PLT 5;2552x3100   | 1           |           |
| B74                                            | ISMB200; 2571     | 1           |           |
| C28                                            | SMC75; 3076       | 3           |           |
| FL51                                           | SMC100; 3360      | 1           |           |
| PL51                                           | PLT 5;2553x3100   | 1           |           |
| (16) DRG NO: 3-48-012-B5796 QTY-4 WT/DU-18.69  |                   |             |           |
| T10                                            | PIPE60*3.91; 2494 | 1           |           |
| GU17                                           | PLT 10;182x227    | 1           |           |
| GU18                                           | PLT 10;172x218    | 1           |           |



ISOMETRIC

| PART MARK LEGEND |          |
|------------------|----------|
| XXX              | XXX      |
| NEAR SIDE        | FAR SIDE |

SUMMARY OF STEEL

| SR. No.       | DESCRIPTION | TOTAL WT |
|---------------|-------------|----------|
| 1             | ISA75X75X6  | 69.41    |
| 2             | ISMB200     | 261.21   |
| 3             | SMC75       | 314.96   |
| 4             | SMC100      | 147.61   |
| 5             | PIPE60*3.91 | 51.84    |
| 6             | PLT 5 THK   | 1482.75  |
| 7             | PLT 10 THK  | 22.93    |
| TOTAL IN KGS. |             | 2350.71  |

NOTES:

01. FOR GENERAL NOTES REFER PAGE NO.41 (REF.41) OF DUCT CONSTRUCTION MANUAL  
REF. 121 FOR CONSTRUCTION DETAIL

FLANGE DETAILS

| FLANGE NO. | REF    | D    | X   | A | B   | W    | S   | E | F    | N  |
|------------|--------|------|-----|---|-----|------|-----|---|------|----|
| FLANGE1    | REF110 | 3160 | 517 | 1 | 914 | 4360 | 406 | 2 | 1828 | 22 |

MODULE NAME: MODULE 18 MODULE QTY: 2

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TYPE OF PRODUCT  
OR NAME OF  
CUSTOMER/PROJECT



Bharat Heavy Electricals Ltd.  
UNIT: HIGH PRESSURE BOILER PLANT  
TIRUCHIRAPALLI - 620014

|      |            |           |                 |
|------|------------|-----------|-----------------|
| DRN  | NAME VEERA | SIGNATURE | DATE 29.03.2017 |
| CHD  | KULA       |           | 29.03.2017      |
| APPD | RAMANA     |           | 29.03.2017      |

|           |                          |            |           |                      |                       |
|-----------|--------------------------|------------|-----------|----------------------|-----------------------|
| DEPT DUCT | ALL DIMENSIONS ARE IN MM | PROJECTION | SCALE NTS | WEIGHT (Kg) 2350.707 | REF TO ASSY / OLD DWG |
| CODE 124  |                          |            |           |                      |                       |

|       |               |                             |     |
|-------|---------------|-----------------------------|-----|
| TITLE | STRAIGHT DUCT | DRAWING NO : 2-48-012-57726 | REV |
|-------|---------------|-----------------------------|-----|

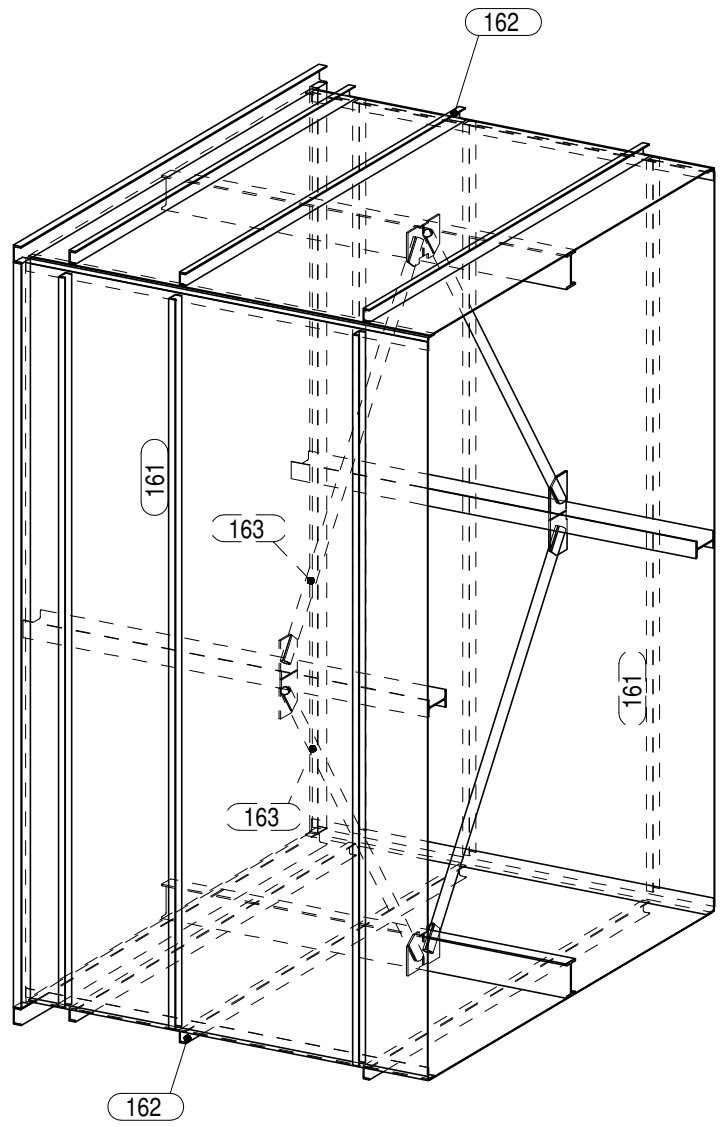
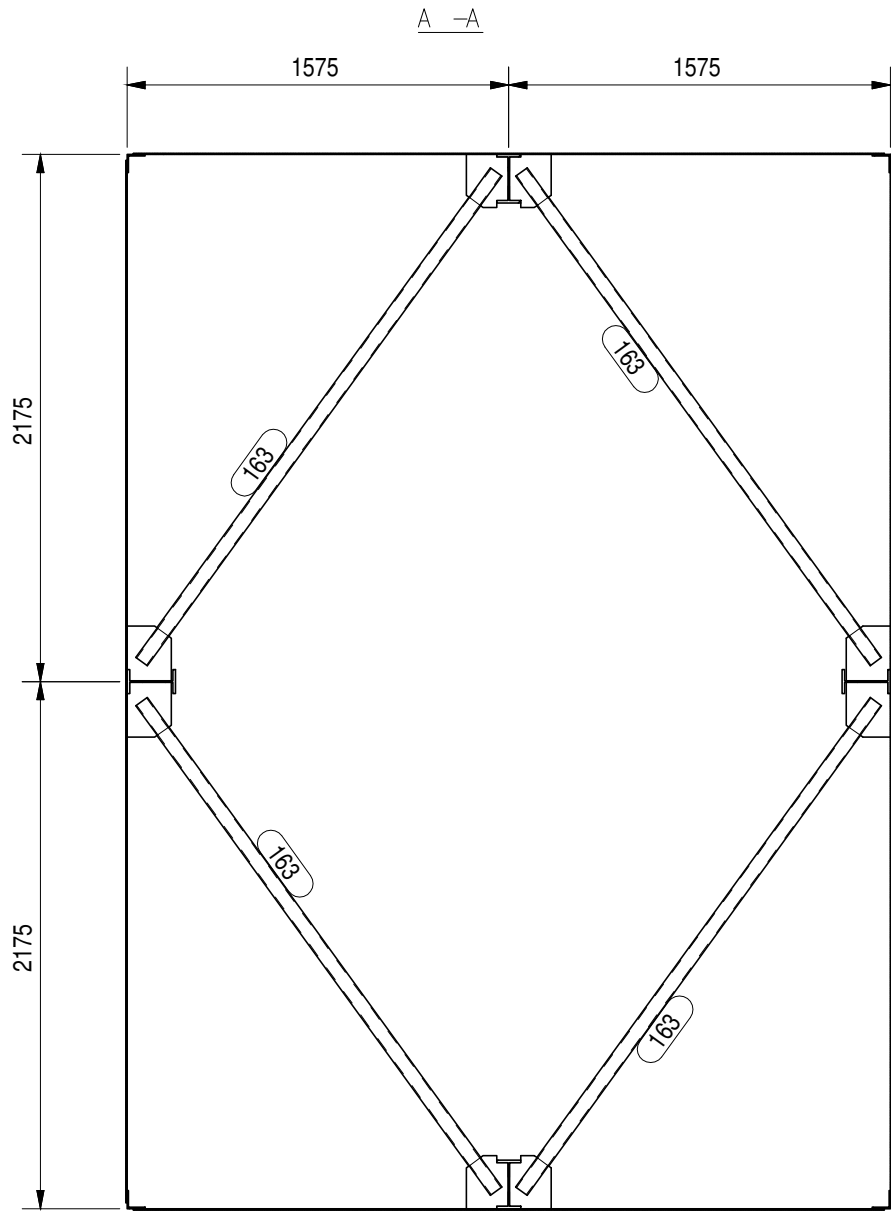
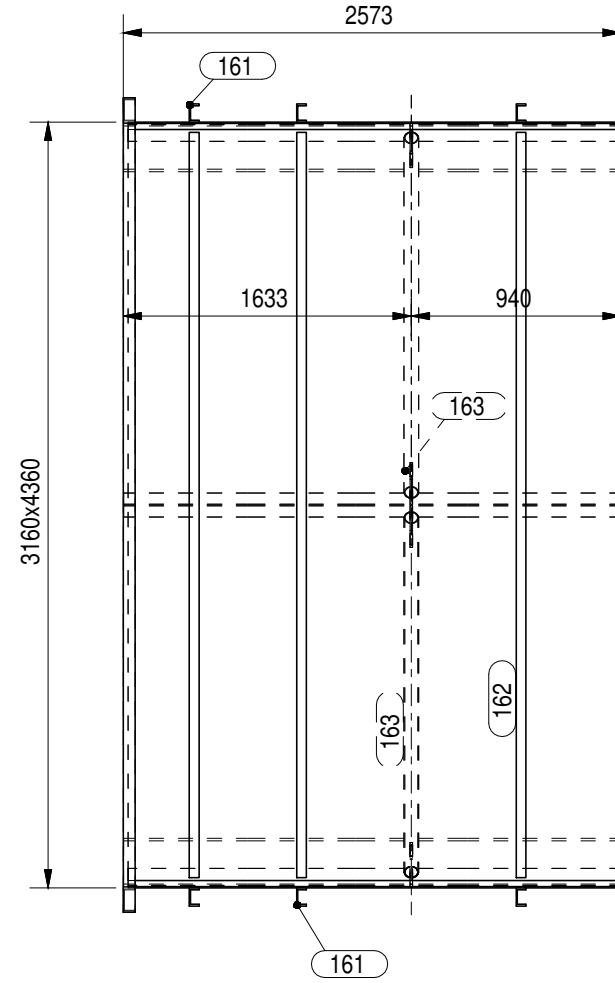
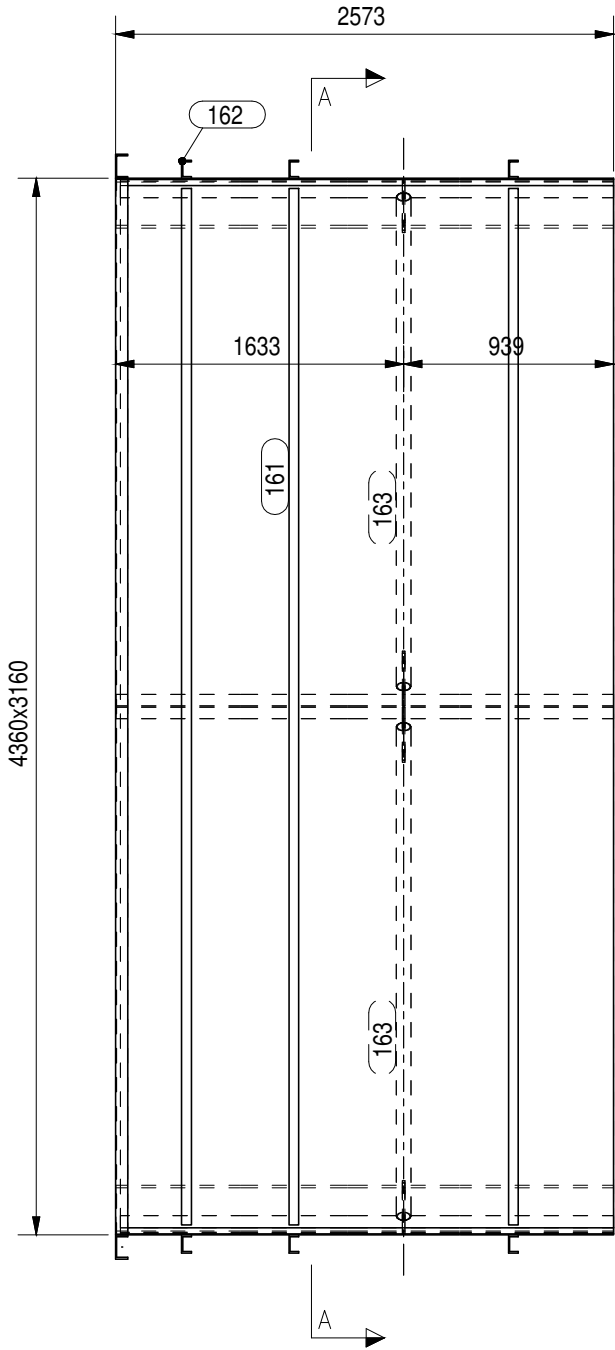
2-48-012-57726

DRAWING NO.

FOR TOLERANCES OF UNTOLERANCED  
DIMENSIONS DURING MANUFACTURE  
REFER PLANT STD. NO TP 023 0299

DESPATCH TABLE

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| B74                                            | ISMB200; 2571     | 1           |           |
| C27                                            | SMC75; 4276       | 3           |           |
| FL52                                           | SMC100; 4360      | 1           |           |
| (16) DRG NO: 3-48-012-B5795 QTY-2 WT/DU-473.89 |                   |             |           |
| FL51                                           | SMC100; 3360      | 1           |           |
| PL51                                           | PLT 5;2552x3100   | 1           |           |
| B74                                            | ISMB200; 2571     | 1           |           |
| C28                                            | SMC75; 3076       | 3           |           |
| FL51                                           | SMC100; 3360      | 1           |           |
| PL51                                           | PLT 5;2553x3100   | 1           |           |
| (16) DRG NO: 3-48-012-B5796 QTY-4 WT/DU-18.69  |                   |             |           |
| T10                                            | PIPE60*3.91; 2494 | 1           |           |
| GU17                                           | PLT 10;182x227    | 1           |           |
| GU18                                           | PLT 10;172x218    | 1           |           |



ISOMETRIC

| PART MARK LEGEND |          |
|------------------|----------|
| XXX              | XXX      |
| NEAR SIDE        | FAR SIDE |

SUMMARY OF STEEL

| SR. No.       | DESCRIPTION | TOTAL WT |
|---------------|-------------|----------|
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| 6             | PLT 5 THK   | 1482.75  |
| 7             | PLT 10 THK  | 22.93    |
| TOTAL IN KGS. |             | 2350.71  |

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|------------|--------|------|-----|---|-----|------|-----|---|------|----|
| FLANGE1    | REF110 | 3160 | 517 | 1 | 914 | 4360 | 406 | 2 | 1828 | 22 |

MODULE NAME: MODULE 18 MODULE QTY: 2

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TYPE OF PRODUCT  
OR NAME OF  
CUSTOMER/PROJECT



Bharat Heavy Electricals Ltd.  
UNIT: HIGH PRESSURE BOILER PLANT  
TIRUCHIRAPALLI - 620014

|      |            |           |                 |
|------|------------|-----------|-----------------|
| DRN  | NAME VEERA | SIGNATURE | DATE 29.03.2017 |
| CHD  | KULA       |           | 29.03.2017      |
| APPD | RAMANA     |           | 29.03.2017      |

|           |                          |            |       |             |                       |
|-----------|--------------------------|------------|-------|-------------|-----------------------|
| DEPT DUCT | ALL DIMENSIONS ARE IN MM | PROJECTION | SCALE | WEIGHT (Kg) | REF TO ASSY / OLD DWG |
| CODE 124  |                          |            | NTS   | 2350.707    |                       |

|               |                             |     |
|---------------|-----------------------------|-----|
| TITLE         | DRAWING NO : 2-48-012-57726 | REV |
| STRAIGHT DUCT |                             |     |