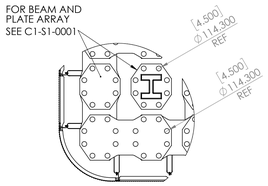
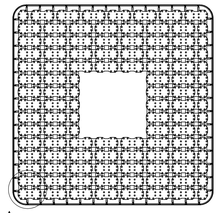
| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | PLATE BEAM 1.5IN BLANK Z1 R1 | SPACER PLATE, NO TRANSITION | 88 |
| 2 | PLATE BEAM 1.5IN EW Z1 R1 | EAST TO WEST TRANSITION PLATE | 184 |
| 3 | PLATE BEAM 1.5IN NS Z1 R1 | NORTH TO SOUTH TRANSITION PLATE | 184 |
| 4 | Beam W14x605 Z3 | | 204 |
| 5 | Plate Beam Z3 | | 408 |
| 6 | Bolt 4.0x13tpi 16in | | 1632 |
| 7 | Nut 4.0x13tpi | | 1632 |
| 8 | Washer 4in 0.125 | | 3264 |
| 9 | PNL 48X48X0.0625IN AL R5 | | 280 |
| 10 | RIB VERTICAL STD PNL R5 | | 280 |
| 11 | RIB HORIZONTAL STD PNL R5 | | 260 |
| 12 | PNL MOUNT BRACE TO C10 R5 | 0.25[IN] ONE PIECE BOX - BRACE | 280 |
| 13 | 91236A720_2in 13tpi Zinc 5 | | 1680 |
| 14 | 93286A049 | | 3360 |
| 15 | 95462A033 | | 3360 |
| 16 | Shim Brace R1 | A36 GALVINIZED | 280 |
| 17 | BrazierRivet 0.375in L-0.78 | | 27600 |
| 18 | RIB VERTICAL SHORT Arm PNL R1 | | 260 |
| 19 | PNL STD R48.2X0.0625IN | | 20 |
| 20 | RIB HORZ Rivet R48.2X0.125IN R2 | | 20 |
| 21 | RIB HORZ RIB-F R48.2X0.125IN R2 | | 20 |
| 22 | C10 to Beam Sup 1 | EAST/WEST PANEL ATTACHMENT (NORTH TO SOUTH) | 140 |
| 23 | 93673A525 | 18-8 Stainless Steel Headless Clevis Pin | 560 |
| 24 | 91152A033 | SPACER/WASHER ANGLED | 560 |
| 25 | Washer Level 0.5in C10 R1 | SPACER/WASHER/ANGLED | 560 |
| 26 | Washer Spacer 0.5in R1 | SPACER/WASHER | 560 |
| 27 | TS8x2x0.1875 Rec Tube 1 | C10 SUPPORT | 280 |
| 28 | C10 to Beam Sup 1 | NORTH/SOUTH PANEL ATTACHMENT (EAST TO WEST) | 140 |
| 29 | TS8x4x0.1875 Rec Tube 1 | C10 SUPPORT | 280 |

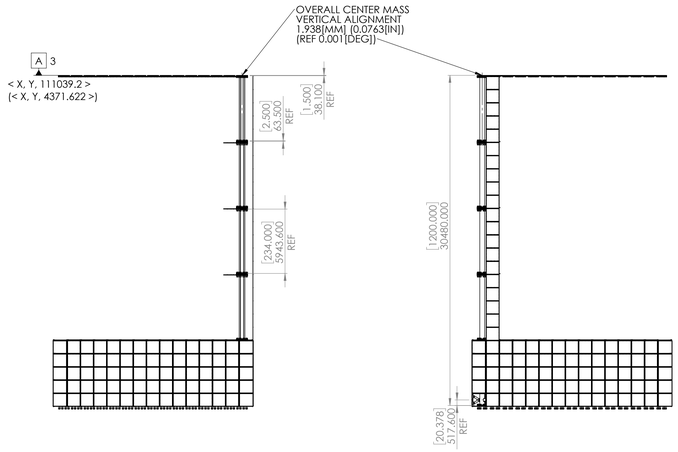


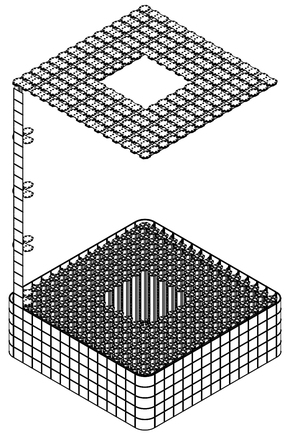

DETAIL A

SCALE 1 : 50



A



NOTES)

(1) W14 BEAM ARRAY: REF C1-S1-001
  (1) BEAM CENTERLINES MATCH
  (2) BOLT HOLES ARE IN CONJUCTION WITH BOLTS
  (3) PLATE THICKNESS REDUCES WITH HEIGHT
(2) CORROSION RESISTANCE IS REQUIRED
  (1) ELECTROPLATING (EP): PREFERRED OVERALL, MINIMUM THICKNESS 25[μM] (0.001[IN])
  (2) THERMAL SPRAY : PREFERRED FOR TOUCH-UPS
  (3) ZINC PAINTS: AREAS WITH PAINT NEED TO BE LOGGED FOR MAINTENANCE
  (4) HOT DIP GALVINIZING, AVERAGE THICKNESS 85[μM] (0.0033[IN]) (WHERE EP IS NOT POSSIBLE)
(3) W14 BEAM/S ASSEMBLIES: ASTM A913 G65, GALVINIZED
(4) C10 CHANNELS: ASTM A572-50, GALVINIZED
(5) INTERCONNECTING PLATES: ASTM A913 G65, GALVINIZED
(6) BOLTS: ASTM F3125 (A490), TYPE 3, GALVINIZED
(7) STEEL PARTS AND PINS: ASTM A572 G50, GALVINIZED
(8) ALUMINUM PARTS AND PINS: ASTM B209 6061-T6 OR 7075-T6
(9) ALUMINUM PANELS AND ITS PARTS: ASTM B209 7075-T6
(10) BEAM HORIZONTAL ALIGNMENT 0.001[DEG], 0.29[MM] (0.011[IN]) OVER 16.5[M]
(11) BEAM VERTICAL ALIGNMENT 0.001[DEG], 12.9[MM] (0.507[IN]) OVER 738[M]
(12) SEE A1-0001 FOR ARCHITECTURAL REQUIRMENT/S
(13) W14 CONNECTION PLATE/S
  (1) BOLT CLEARANCE HOLES PREFERRED 6[MM] (0.25[IN]) LARGER THAN BOLT OR PIN
  (2) MATING FACES MAY HAVE THIN LAYER OF OIL APPLIED
(14) GAGES TO BE CONSTRUCTED PER TEMPERATURE SPECIFICATION (15[C] OR 59[F])
(15) BLIND RIVETS ARE NOT SHOWN, (X)3 REQUIRED PER MATING CORNER
  (1) ALUMINUM 5052-H32 (MIN STRENGTH)
  (2) TENSILE STRENGTH 2,670[N] (600[LBF])
  (3) SHEAR STRENGTH 2,000[N] (450[LBF])
(16) BEAM CENTER MASS CALCULATION METHOD (OTHER VARIATIONS POSSIBLE)
  (1) CHOOSE (X4) SIDES OF THE BASE PLATES IN QUESTION
  (2) CALCULATE THE OFFSET OF EACH SIDE
  (3) TAKE THE MEAN FOR THE VERTICAL ALIGNMENT
  (4) EACH CORNER BEAM AND THREE BEAMS BETWEEN EACH CORNER MUST BE EVALUATED
(17) A LAYER CONTAINS
  (1) 260 FLAT PANELS
  (2) 20 RADIUS PANELS
(18) SEE A1-S1-0003/4 FOR C10 AND PANEL DETAILS

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS: [MM] - [DIN]

ALL TOLERANCES:
MEASURED/GAGED AT 15[C] (59[F])
TOLERANCES: (+/-)0.01[%]

LOCATION: FRANCE, NORMANDY, DOZULE
THE HOLY HILL: 49°13'21.28"N 0°25'08.01"W
Ex: STRUCTURAL, CLASS x
Co: CIVIL, CLASS x
Me: MECHANICAL, CLASS x
Sy: STRUCTURAL, CLASS x

DEBURR AND BREAK SHARP EDGES

| | NAME | SIGNATURE | DATE |
|---|---|---|---|
| DRAWN | | | |
| CHK'D | | | |
| APPV'D | | | |
| MFG | | | |
| Q.A | | | |

MATERIAL: SEE NOTES

WEIGHT:

DO NOT SCALE DRAWING

REVISION

CREO DESIGN

TITLE: W14X605 LAYERS
DESIGN CRITERIA
BEAM ASM
PANELS/SKIN

DWG NO. A1-S1-0006

A0

SCALE:1:200

SHEET 1 OF 1