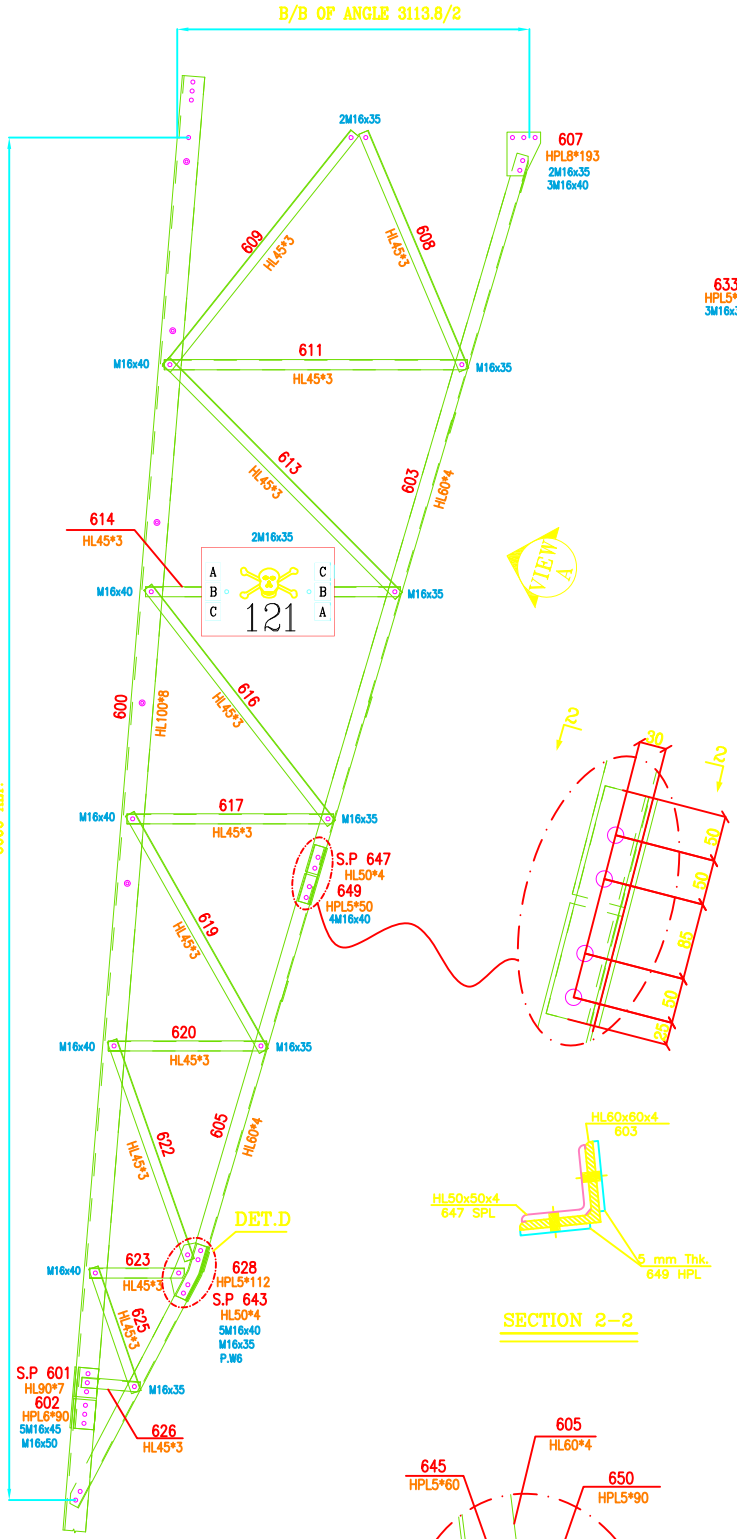
# LEG EXT.6m TRANS & LONG FACE

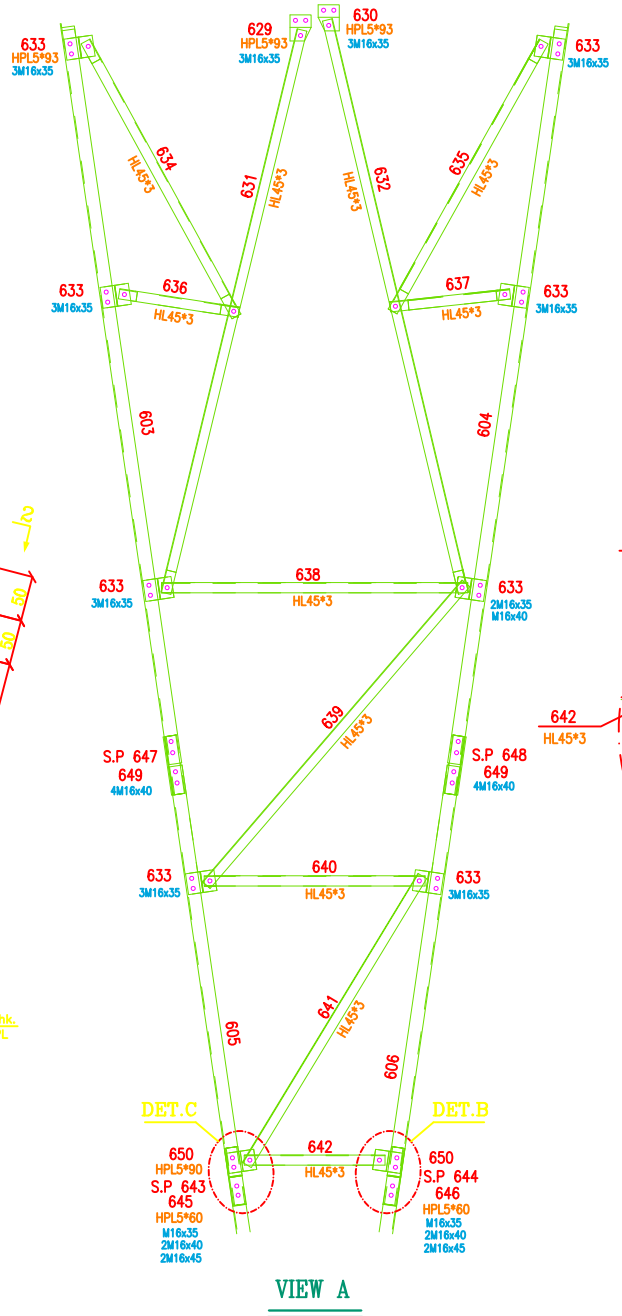




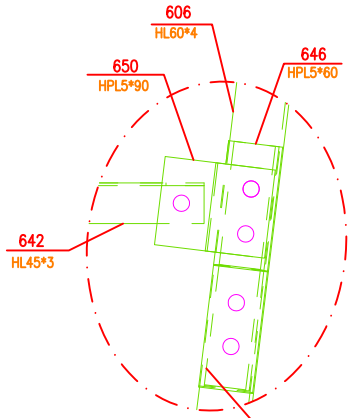





SECTION 2-2



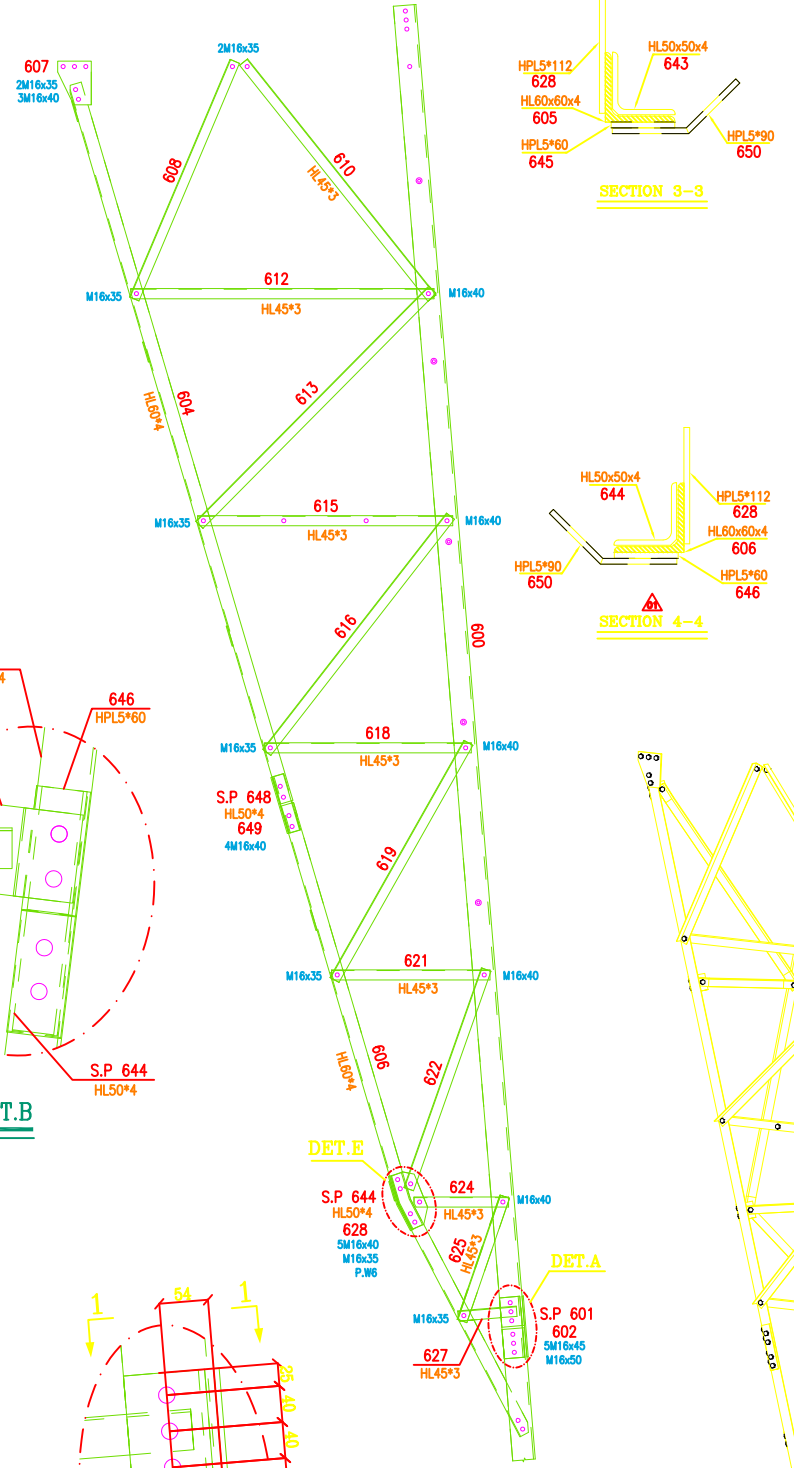

VIEW A

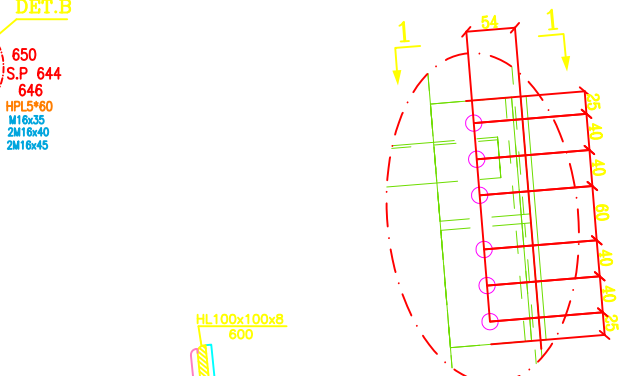



DET.B

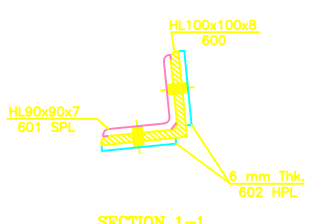



DET.C

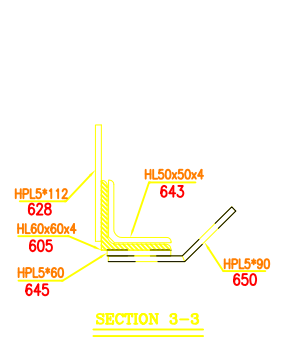


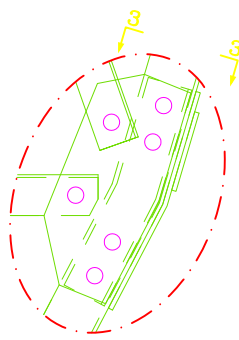

DET.A




SECTION 1-1



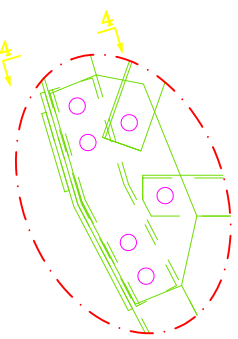

SECTION 3-3



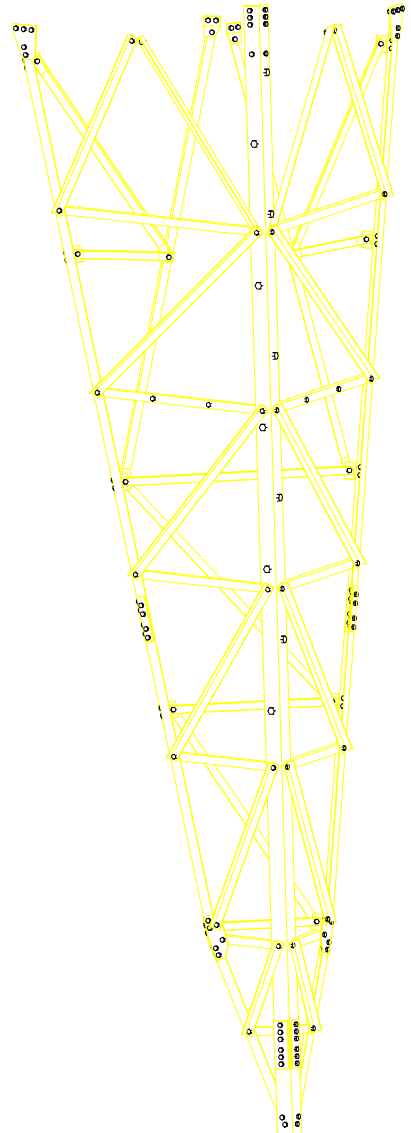

DET.D




SECTION 4-4




DET.E



NOTES:

1- ALL DIMENSION ARE IN MILLIMETERS.
2- DO NOT SCALE THE DRAWING
3- DIAMETERS OF HOLE ARE AS FOLLOWS:
ø21.5 mm FOR M20, ø17.5 mm FOR M16
ø13.5 mm FOR M12 BOLTS.
4- EACH BOLT ASSEMBLY INCLUDES ONE BOLT ONE NUT AND ONE SPRING WASHER.
5- EACH STEP BOLT ASSEMBLY INCLUDES ONE STEP BOLT TWO NUTS AND TWO SPRING WASHER.
6- GRADE OF BOLTS IS 5.8
7- THE STEEL MEMBER INDENTIFIED BY "H" ARE ST:52 OTHER MEMBERS ARE ST:37

SYMBOLS AND ABBREVIATIONS

| DESCRIPTION | SYMBOLE |
|---|---|
| CENTER LINE | C.L. |
| PLATE | PL |
| ANGLE | L |
| SPLICE | SP |
| HIGH TENSILE | HL |
| BEND LINE | B.L. |
| NEAR SIDE | N.S. |
| FAR SIDE | F.S. |
| ø14 mm HOLE | ● |
| ø17.5 mm HOLE | ○ |
| ø21.5mm HOLE | ◔ |
| HOLE FOR STEP BOLT | ◎ |

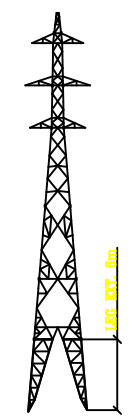
SPECIFICATION FOR MATERIALS

| NO. | ITEM | REFERENCE: Specific Requirements | REFERENCE: Technical Delivery Conditions |
|---|---|---|---|
| 1 | ANGLE | DIN 10056-2 | DIN EN 10025-2 MILD STEEL-GRADE S235JR HIGH TENSILE-GRADE S355J0 |
| 2 | GUSSET PLATE | DIN 10048 | DIN EN 10025-2 MILD STEEL-GRADE S235JR HIGH TENSILE-GRADE S355J0 |
| 3 | FILLER PLATE | DIN 10048 | DIN EN 10025-2 MILD STEEL-GRADE S235JR |
| 4 | BOLT | DIN 7990 | ISO 898-part1,Grade 5.8 |
| 5 | NUT | DIN 4032 | ISO 898-part2,Grade 5 |
| 6 | SPRING WASHER | DIN 127 | DIN 267-part 26 |
| 7 | PLAIN WASHER | DIN EN ISO 4759-3 | DIN EN 10025-2,Grade S235JR |
| 8 | GALVANIZ | ANGLES & PLATES | ASTM A123 |
| | | BOLTS & NUTS & WASHERS | ASTM A153 |

Note: 1-Application of an equal and approved material is allowed only after the written permission of consultant

LIST OF BOLT & NUTS & WASHERS INCLUDING 3% EXTRA

| LENGTH | QTY. | LENGTH | QTY. |
|---|---|---|---|
| M16x35mm | 55 | STEP BOLT | 10 |
| M16x40mm | 50 | 6mm PACK W. | 03 |
| M16x45mm | 15 | STD.SP.WASHER | 143 |
| M16x50mm | 03 | | |




| REV. | DESCRIPTION | BY | CHKD. | APPR. | DATE |
|---|---|---|---|---|---|
| | REVISED BASED ON LAST MODIFICATIONS | BY | M.G | M.GH | 07/09/19 |

PROJECT: 63 KV D.C TRANSMISSION LINE

CLIENT: YAZD REGIONAL ELECTRIC CO.

CONSULTANT: MONENCO IRAN CO.

CONTRACTOR: YASAN CO.

TOWER TYPE: SUSPENSION YSM03

SECTION OF TOWER: LEG EXT. 6m

DESIGN: YASAN ENG.

DRAWN: M.GHASEMI

CHECKED: A.R.NAYE

APPROVED: M.R.GHASEMI

DATE: 1397/09/20

DRAWING NO.: YSM-03-01-YS000-S-01-07

شرکت مهندسی یاسان طراح و سازنده برجهای انتقال نیرو و مخابراتی