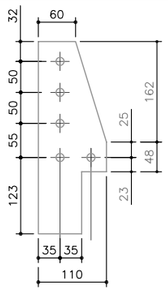
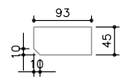
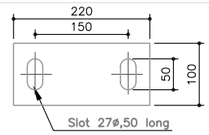
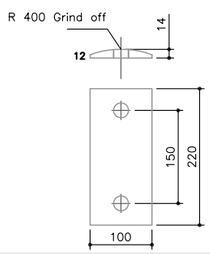
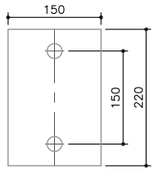
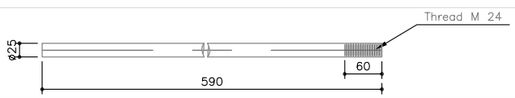
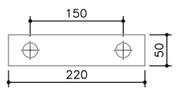
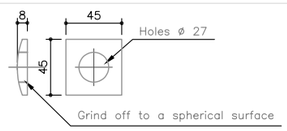
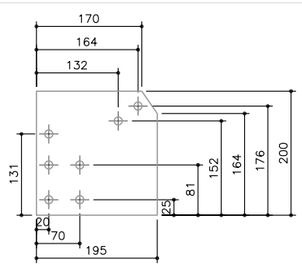
Part No.		Section (mm)	Quantity	Working Drawing (All dimension in mm)	Length Single/pc mm	Length Total m	Weight Single/pc kg	Weight Total kg	Surface to be painted m2 /pc	Surface to be painted Total m2	Total weight for Glavanization kg	Remarks
1	a	Plate 310x110x8	4	 Plate 8 thick 5 holes ø 13	–	–	1.636	6.544	0.052	0.208	6.544	
	b	Plate 93x45x8	16	 Plate 8 thick	–	–	0.256	4.096	0.008	0.128	4.096	
	c	Plate 220x100x10	4	 Plate 10 thick	–	–	1.531	6.124	0.039	0.156	6.124	Part 1 (a,b,c) to be welded as shown alongside
2	a	Plate 220x100x14	4	 Plate 14 thick 2 holes ø 27	–	–	2.417	9.668	0.044	0.176	9.668	
	b	Plate 220x150x10	4	 Plate 10 thick 2 holes ø 27	–	–	2.590	10.360	0.066	0.264	10.360	
	c	25ø Rod 590 long	8		590	4.720	1.758	14.064	0.041	0.328	14.064	
	d	Plate 220x50x8	4	 Plate 8 thick 2 holes ø 13	–	–	0.691	2.764	0.022	0.088	2.764	Part 2 (a,b,c) to be welded as shown alongside
3		Plate 45x45x8	10	 Plate 8 thick	–	–	0.130	1.300	0.004	0.040	1.300	2 pcs. extra
4		Hexagonal nut M 22	10		–	–	0.0971	0.970	Galvanized			2 pcs. extra
5		Hexagonal nut 10 thick , M 22	10		–	–	0.0437	0.440	Galvanized			3 pcs. extra
6		Plate 200 x 195 x 5	8	 Plate 5 thick 7 holes ø 13	–	–	1.444	11.550	0.074	0.592	11.550	

Note :
Manufacturer should verify the Working and Assembly Drawing for it's accuracy before fabrication

MoFALD / DoLIDAR / Trail Bridge Section
Truss Bridge Standard

Bridge No : **Name :**

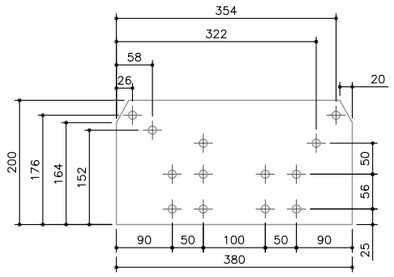
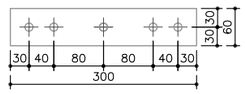
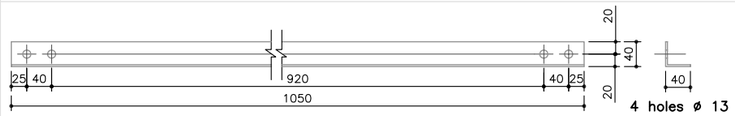
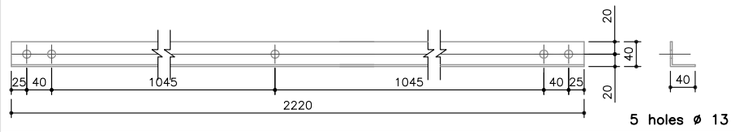
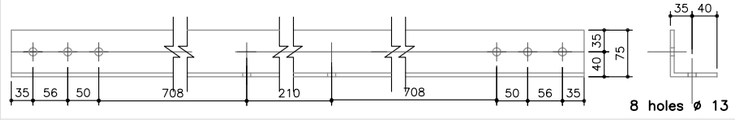
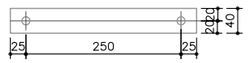
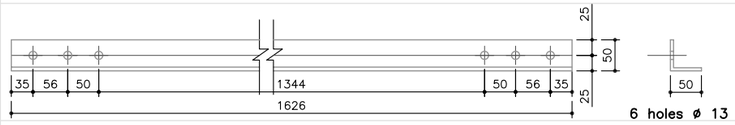
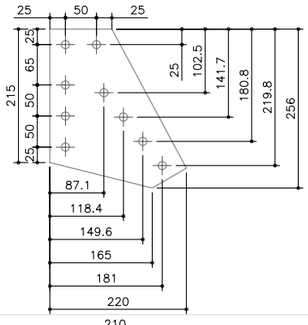
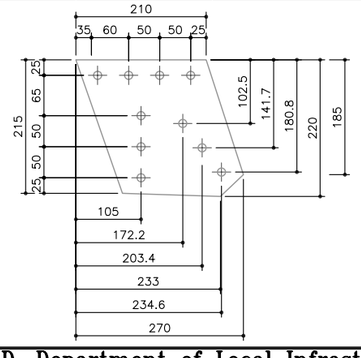
Span : 24.0 m

Strutural Drawing :

Working and Assembly Drawing

Date: July 2013 **Drawing No:** T2 W

Produced by Government of Nepal, MoFALD, Department of Local Infrastructure Development and Agricultural Roads with the support of the Swiss Government (SDC Nepal) through ◀ helvetas Nepal ▶

Part No.	Section (mm)	Quantity	Working Drawing (All dimension in mm)	Length Single/pc mm	Length Total m	Weight Single/pc kg	Weight Total kg	Surface to be painted m2/pc	Surface to be painted Total m2	Total weight for Glavanization kg	Remarks
7	Plate 380 x 200 x 5	44	 Plate 5 thick 13 holes ø 13	–	–	2.955	130.020	–	–	130.020	
8	Plate 300 x 60 x 4	24	 Plate 4 thick 5 holes ø 13	–	–	0.565	13.560	0.036	0.864	13.560	
9	Angle 40 x 40 x 3 l =1050	48	 4 holes ø 13	1050	50.40	1.890	90.72	–	–	90.72	
10	Angle 40 x 40 x 3 l =2220	24	 5 holes ø 13	2220	53.28	3.996	95.905	–	–	95.905	
11 a	Angle 75 x 75 x 6 l = 1626	2	 8 holes ø 13	1626	3.252	11.057	22.114	0.489	0.978	22.114	
11 b	Plate 300 x 40 x 5	4	 2 holes ø 13	–	–	0.471	1.884	0.024	0.096	1.884	
12	Angle 50 x 50 x 5 l =1626	11	 6 holes ø 13	1626	17.886	6.179	67.969	–	–	67.969	
13	Plate 256 x 220 x 8	4	 Plate 8 thick 9 holes ø 13	–	–	2.380	9.520	0.076	0.304	9.520	
14	Plate 270 x 220 x 8	4	 Plate 8 thick 9 holes ø 13	–	–	3.096	12.384	0.099	0.356	12.384	

Note :
Manufacturer should verify the Working and Assembly Drawing for it's accuracy before fabrication

MoFALD / DoLIDAR / Trail Bridge Section
Truss Bridge Standard

Bridge No : **Name :**

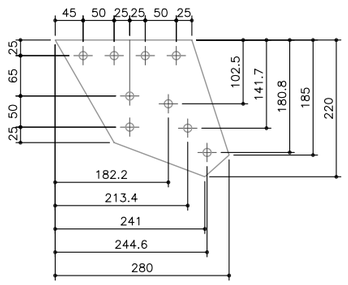
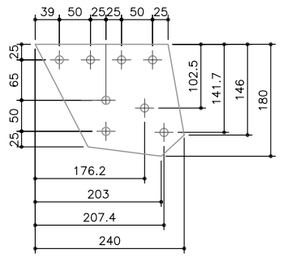
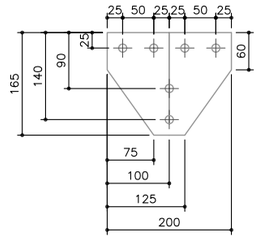
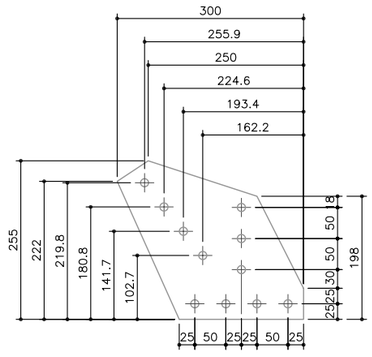
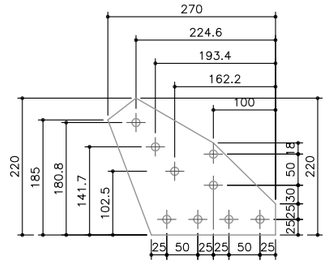
Span : 24.0 m

Strutural Drawing :

Working and Assembly Drawing

Date: July 2013 **Drawing No:** T3 W

Produced by Government of Nepal, MoFALD, Department of Local Infrastructure Development and Agricultural Roads with the support of the Swiss Government (SDC Nepal) through ◀ helvetas Nepal ▶

Part No.	Section (mm)	Quantity	Working Drawing (All dimension in mm)	Length Single/pc mm	Length Total m	Weight Single/pc kg	Weight Total kg	Surface to be painted m2 /pc	Surface to be painted Total m2	Total weight for Glavanization kg	Remarks
15	Plate 280 x 220 x 8	4	 Plate 8 thick 9 holes ø 13	–	–	2.667	10.668	0.085	0.340	10.668	
16	Plate 240 x 180 x 8	12	 Plate 8 thick 8 holes ø 13	–	–	2.093	25.116	0.067	0.804	25.116	
17	Plate 200 x 165 x 8	2	 Plate 8 thick 6 holes ø 13	–	–	1.577	3.154	0.050	0.100	3.154	
18	Plate 300 x 255 x 8	4	 Plate 8 thick 11 holes ø 13	–	–	3.373	13.492	0.107	0.428	13.492	
19	Plate 270 x 220 x 8	8	 Plate 8 thick 9 holes ø 13	–	–	2.409	19.272	0.077	0.616	19.272	

Note :
Manufacturer should verify the Working and Assembly Drawing for it's accuracy before fabrication

MoFALD / DoLIDAR / Trail Bridge Section
Truss Bridge Standard

Bridge No : **Name :**

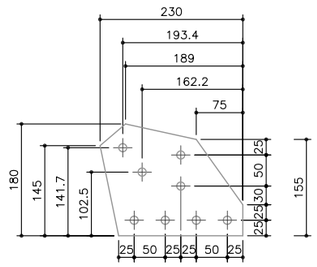
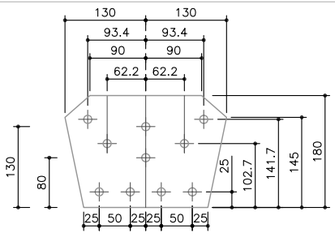
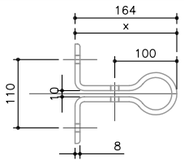
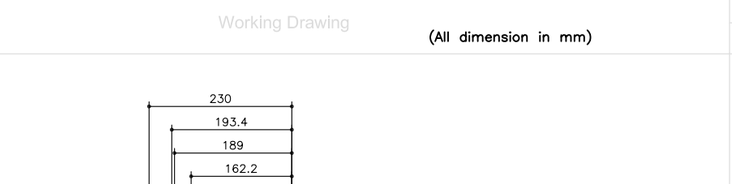
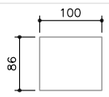
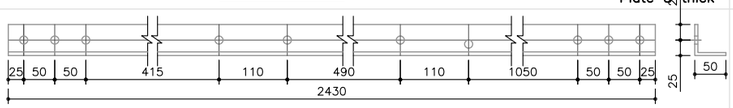
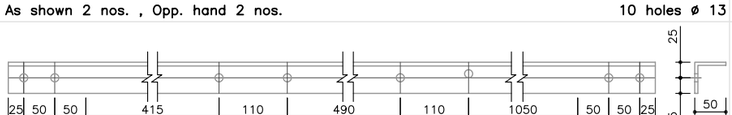
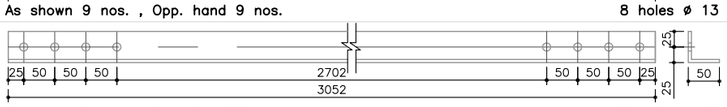
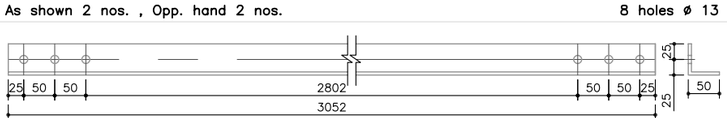
Span : 24.0 m

Strutural Drawing :

Working and Assembly Drawing

Date: July 2013 **Drawing No:** T4 W

Produced by Government of Nepal, MoFALD, Department of Local Infrastructure Development and Agricultural Roads with the support of the Swiss Government (SDC Nepal) through ◄helvetas Nepal►

Part No.	Section (mm)	Quantity	Working Drawing (All dimension in mm)	Length Single/pc mm	Length Total m	Weight Single/pc kg	Weight Total kg	Surface to be painted m2 /pc	Surface to be painted Total m2	Total weight for Glavanization kg	Remarks
20	Plate 230 x 180 x 8	8	 Plate 8 thick 8 holes ø 13	–	–	2.088	16.704	0.066	0.528	16.704	
21	Plate 260 x 180 x 8	2	 Plate 8 thick 10 holes ø 13	–	–	2.590	5.180	0.083	0.166	5.180	
22	Plate 40 x 8 l = 520	44	 4 holes ø 13	520	20.80	1.304	57.376	–	–	57.376	
23	Flat 40 x 8 l = 492	8	Same as part no 22 except dimension x = 150 4 holes ø 13	492	3.94	1.232	9.856	0.050	0.400	9.856	
24 a	Angle 50 x 50 x 5 l = 2430	8	 10 holes ø 13	2430	19.74	9.234	73.872	0.486	3.888	73.872	Part no. 24 (a,b,c) to be welded up as shown alongside
24 b	Plate 100 x 86 x 5	16	 Plate 5 thick	–	–	0.337	5.392	0.017	0.272	5.392	
24 c	Plate 100 x 20 x 8	16	 Plate 8 thick	–	–	0.125	2.000	0.004	0.064	2.000	
25	Angle 50 x 50 x 6 l = 2430	4	 As shown 2 nos. , Opp. hand 2 nos. 10 holes ø 13	2430	9.720	10.935	43.740	0.486	1.944	43.740	
26	Angle 50 x 50 x 5 l = 2430	18	 As shown 9 nos. , Opp. hand 9 nos. 8 holes ø 13	2430	43.74	9.234	166.212	–	–	166.212	
27	Angle 50 x 50 x 5 l = 3052	4	 As shown 2 nos. , Opp. hand 2 nos. 8 holes ø 13	3052	12.21	11.598	46.392	0.616	2.440	46.392	
28	Angle 50 x 50 x 5 l = 3052	8	 As shown 4 nos. , Opp. hand 4 nos. 6 holes ø 13	3052	24.42	11.598	92.784	0.610	4.880	92.784	

Note :
Manufacturer should verify the Working and Assembly Drawing for it's accuracy before fabrication

MoFALD / DoLIDAR / Trail Bridge Section
Truss Bridge Standard

Bridge No : **Name :**

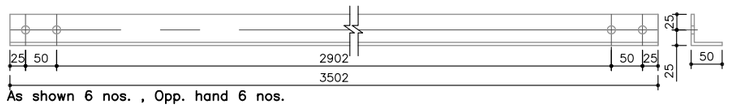
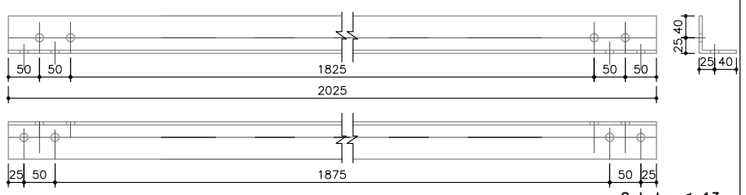
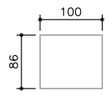
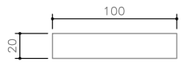
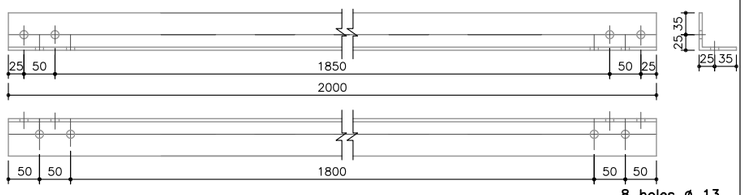
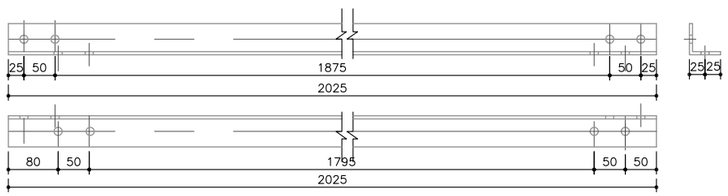
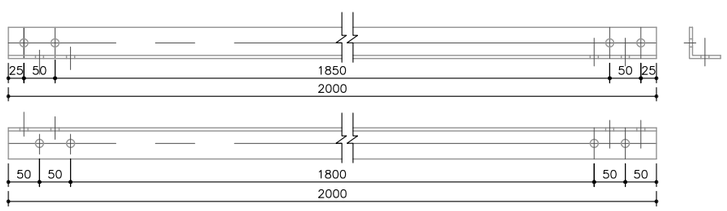
Span : 24.0 m

Strutural Drawing :

Working and Assembly Drawing

Date: July 2013 **Drawing No:** T5 W

Produced by Government of Nepal, MoFALD, Department of Local Infrastructure Development and Agricultural Roads with the support of the Swiss Government (SDC Nepal) through ◀ helvetas Nepal ▶

Part No.		Section (mm)	Quantity	Working Drawing (All dimension in mm)	Length Single/pc mm	Length Total m	Weight Single/pc kg	Weight Total kg	Surface to be painted m2 /pc	Surface to be painted Total m2	Total weight for Glavanization kg	Remarks
29		Angle 50 x 50 x 5 l = 3052	12	 As shown 6 nos. , Opp. hand 6 nos. 4 holes ø 13	3052	36.620	11.598	139.176	0.610	7.320	139.176	
30	a	Angle 65 x 65 x 5 l = 2025	8	 8 holes ø 13	2025	16.20	9.922	79.396	0.486	3.888	79.396	
	b	Plate 100 x 86 x5	12	 Plate 5 thick	–	–	0.337	4.044	0.017	0.264	4.044	
	c	Plate 100 x 20 x 8	12	 Plate 8 thick	–	–	0.125	1.500	0.004	0.048	1.500	Part no. 30 (a,b,c) to be welded up as shown alongside
31	a	Angle 65 x 65 x 5 l = 2000	40	 8 holes ø 13	2000	80.00	9.800	392.00	–	–	392.00	
	b	Plate 100 x 86 x 5	60	Same as part no 30 b Plate 5 thick	–	–	0.337	20.22	–	–	20.22	Part no. 31 (a,b,c) to be welded up as shown alongside
	c	Plate 100 x 20 x 8	60	Same as part no 30 c Plate 8 thick	–	–	0.125	7.50	–	–	7.50	
32	a	Angle 50 x 50 x 5 l = 2025	8	 8 holes ø 13	2025	16.20	7.695	61.560	0.405	3.240	61.560	
	b	Plate 100 x 86 x 5	4	Same as part no 30 b Plate 5 thick	–	–	0.337	1.348	0.017	0.068	1.348	Part no. 32 (a,b,c) to be welded up as shown alongside
	c	Plate 100 x 20 x 8	4	Same as part no 30 c Plate 8 thick	–	–	0.125	0.500	0.004	0.016	0.500	
33	a	Angle 50 x 50 x 5 l = 2000	40	 8 holes ø 13	2000	80.00	7.600	304.00	0.400	16.000	304.00	
	b	Plate 100 x 86 x 5	20	Same as part no 30 b Plate 5 thick	–	–	0.337	6.740	0.017	0.340	6.740	
	c	Plate 100 x 20 x 8	20	Same as part no 30 c Plate 8 thick	–	–	0.125	2.50	0.004	0.080	2.500	Part no. 33 (a,b,c) to be welded up as shown alongside

Note :
Manufacturer should verify the Working and Assembly Drawing for it's accuracy before fabrication

MoFALD / DoLIDAR / Trail Bridge Section
Truss Bridge Standard

Bridge No : **Name :**

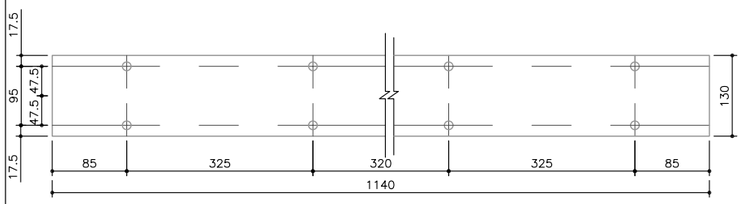
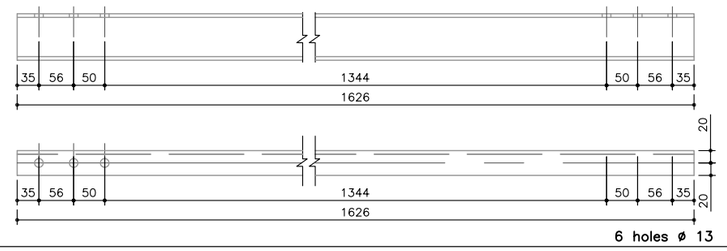
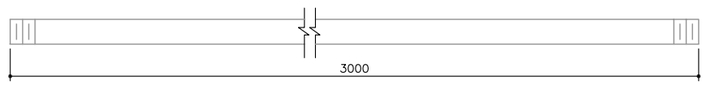
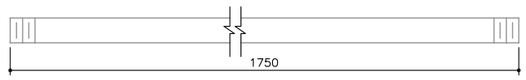
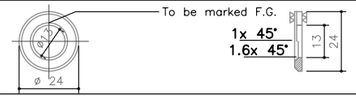
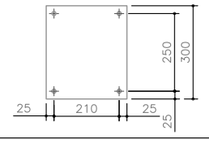
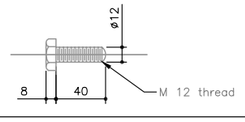
Span : 24.0 m

Strutural Drawing :

Working and Assembly Drawing

Date: July 2013 **Drawing No:** T6 W

Produced by Government of Nepal, MoFALD, Department of Local Infrastructure Development and Agricultural Roads with the support of the Swiss Government (SDC Nepal) through ◀ helvetas Nepal ▶

Part No.	Section (mm)	Quantity	Working Drawing (All dimension in mm)	Length Single/pc mm	Length Total m	Weight Single/pc kg	Weight Total kg	Surface to be painted m2 /pc	Surface to be painted Total m2	Total weight for Glavanization kg	Remarks
34 a	Flat 130 x 6 – 1140	13	 8 holes ø 14	1140	14.82	6.980	90.740	0.296	3.848	90.740	
34 b	ISMC Channel 75 x 40 l =1626	13	 6 holes ø 13	1626	21.140	11.057	143.741	0.504	6.552	143.741	Part no. 34 (a,b,c) to be welded up as shown alongside
35	Glaved M S Pipe nominal bore 40 ø medium clas, l =3000	28		3000	84.00	10.83	303.24	Glavanized			
36	Glaved M S Pipe nominal bore 40 ø medium clas, l =1750	8		1750	14.00	6.32	50.56	Glavanized			
37	Glavd. pipe socket for above pipes	35	As per BRITISH STANDARD	–	–	0.30	10.50	Glavanized			For Part no. 33 & 34 3 pcs. extra
38	Flat 50 x 8 l = 50	18	 Plate 8 thick 1 holes ø 13	50	0.90	0.157	2.826	Glavanized		2.826	2 pcs. extra
39	Friction grip nut M 12 IS 66 23	1350		–	–	0.022	29.700	Glavanized			5 % extra
40	Friction grip bolt M 12 x 50 IS 3757	1330		–	–	0.070	93.100	Glavanized			5 % extra
41	Washer 'A' IS 6649	1330		–	–	0.020	26.600	Glavanized			5 % extra
42	Taper washer ø 13 for ISMC 75 x 40 IS 5372	82	Taper washer as per IS 5372–1975	–	–	0.020	1.804	Glavanized			5 % extra
43	Brass plate 360 x 260 x 16gauge	2		–	–	1.050	2.100				See detail for manufacturing instruction
44	Hexagonal bolt M 12 x 40 IS 1363	10		–	–	0.070	0700	Glavanized			
			TOTAL (1-44)				2879.240kg			2359.526kg	

Note :
Manufacturer should verify the Working and Assembly Drawing for it's accuracy before fabrication

Steelparts to be Glavanized	2359.526 kg.
Pipe & Socket	364.300 kg
Nut, Bolts and Washer	152.614 kg.

Hot Dip Galvanization :	IS 2629, IS 2633
Weight of Zinc Coat :	0.61 kg/m2

MoFALD / DoLIDAR / Trail Bridge Section
Truss Bridge Standard

Bridge No : **Name :**

Span : 24.0 m

Strutural Drawing :

Working and Assembly Drawing

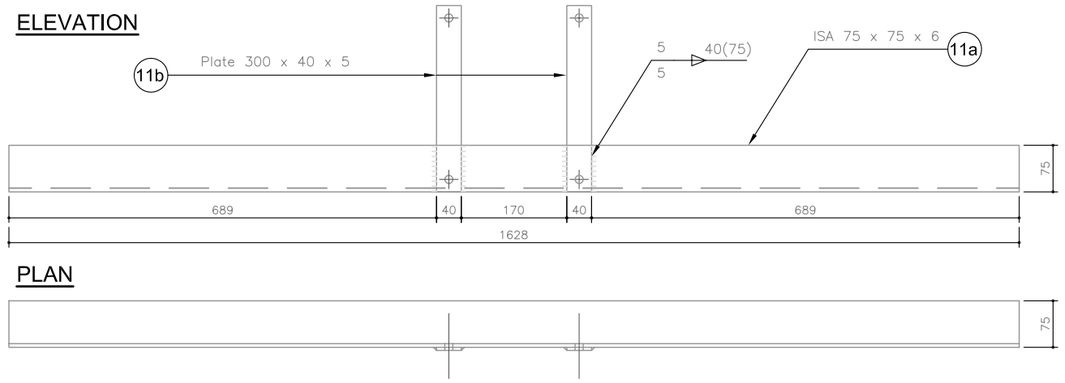
Date: July 2013 **Drawing No:** T7 W

Produced by Government of Nepal, MoFALD, Department of Local Infrastructure Development and Agricultural Roads with the support of the Swiss Government (SDC Nepal) through ◀ helvetas Nepal ▶

Note :
Manufacturer should verify the Working and Assembly Drawing for it's accuracy before fabrication

WELDING DETAIL OF PART II

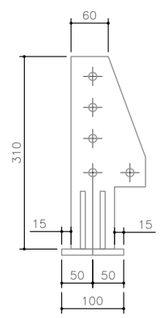
SCALE 1:10



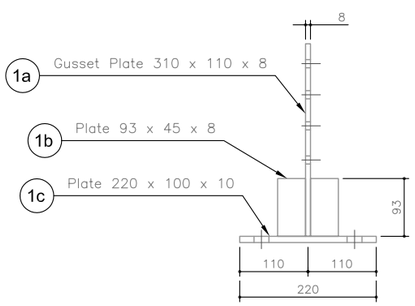
WELDING DETAIL OF PART 1

SCALE 1:10

SIDE ELEVATION



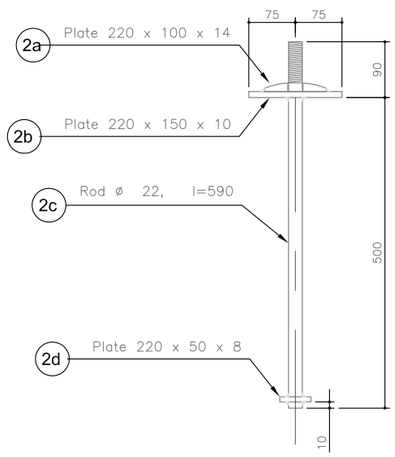
FRONT ELEVATION



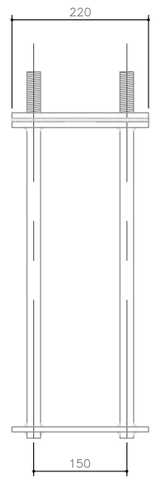
WELDING DETAIL OF PART 2

SCALE 1:10

SIDE ELEVATION



FRONT ELEVATION



MoFALD / DoLIDAR / Trail Bridge Section
Truss Bridge Standard

Bridge No : **Name :**

Span : 24.0 m

Strutural Drawing :

Working and Assembly Drawing

Date: July 2013 **Drawing No:** T8 W

Produced by Government of Nepal, MoFALD, Department of Local Infrastructure Development and Agricultural Roads with the support of the Swiss Government (SDC Nepal) through ◀ helvetas Nepal ▶

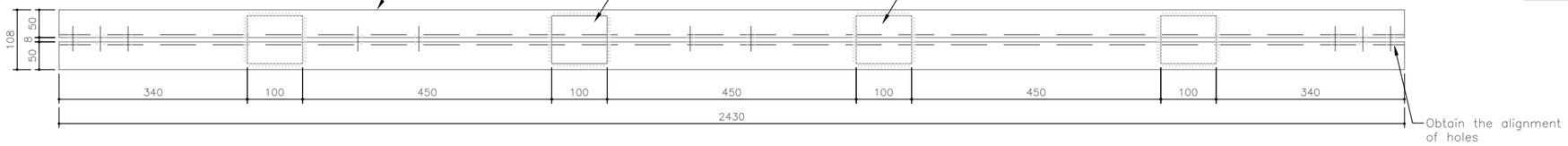
Note :
Manufacturer should verify the Working and Assembly Drawing for it's accuracy before fabrication

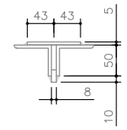
WELDING DETAIL OF END VERTICAL MEMBER (PART 24)

SCALE 1:10

ELEVATION

PLAN



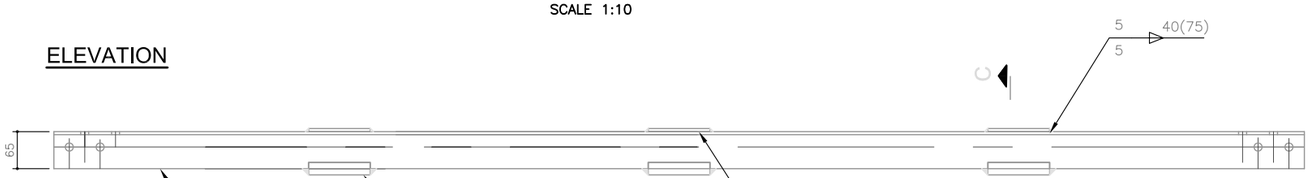


SECTION B-B

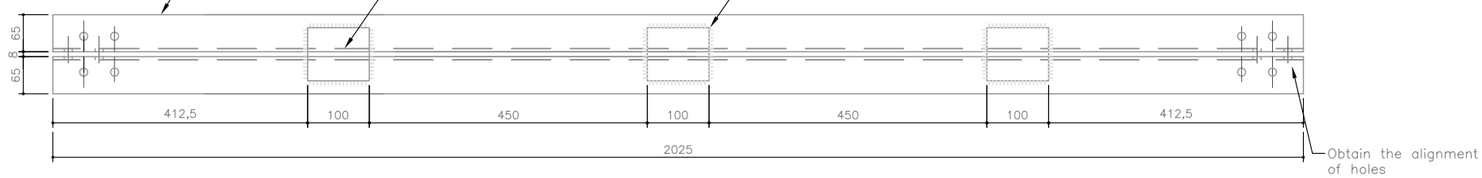
WELDING DETAIL OF TOP CHORD END MEMBER (PART 30)

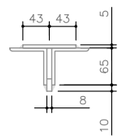
SCALE 1:10

ELEVATION



PLAN





SECTION C-C

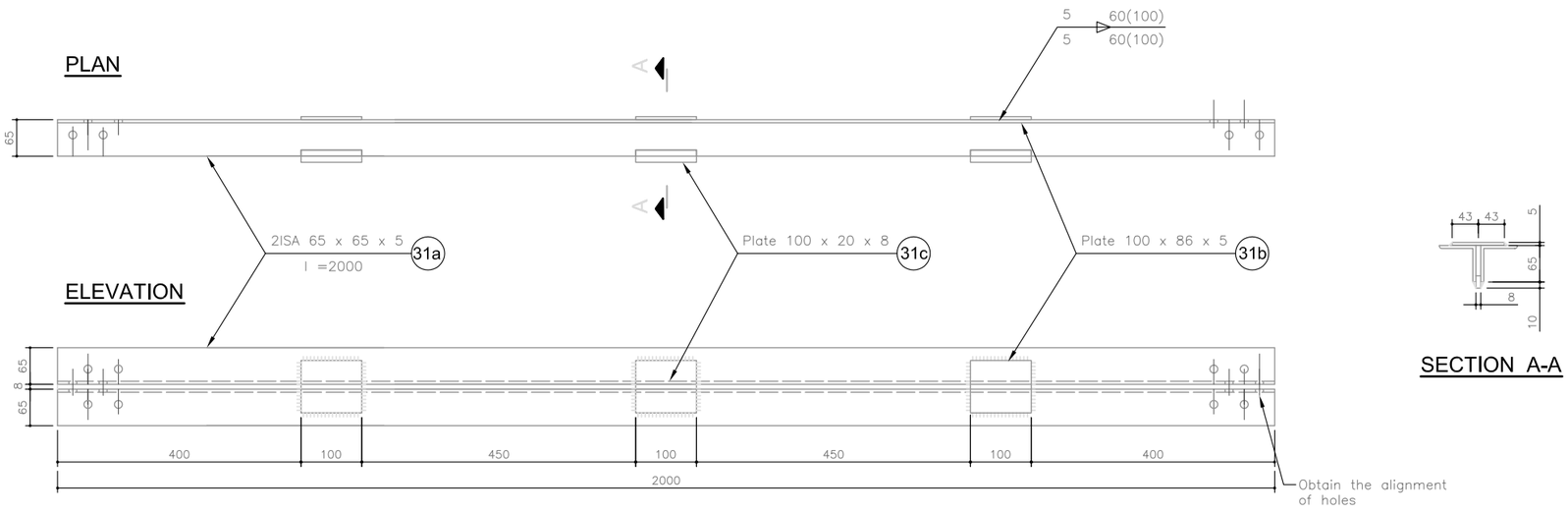
MoFALD / DoLIDAR / Trail Bridge Section Truss Bridge Standard	
Bridge No :	**Name :**
Span : 24.0 m	
Strutural Drawing : Working and Assembly Drawing	
Date: July 2013	**Drawing No:** T9 W

Produced by Government of Nepal, MoFALD, Department of Local Infrastructure Development and Agricultural Roads with the support of the Swiss Government (SDC Nepal) through helvetas Nepal

Note :
Manufacturer should verify the Working and Assembly Drawing for it's accuracy before fabrication

WELDING DETAIL OF TOP CHORD INTERIOR (PART 31)

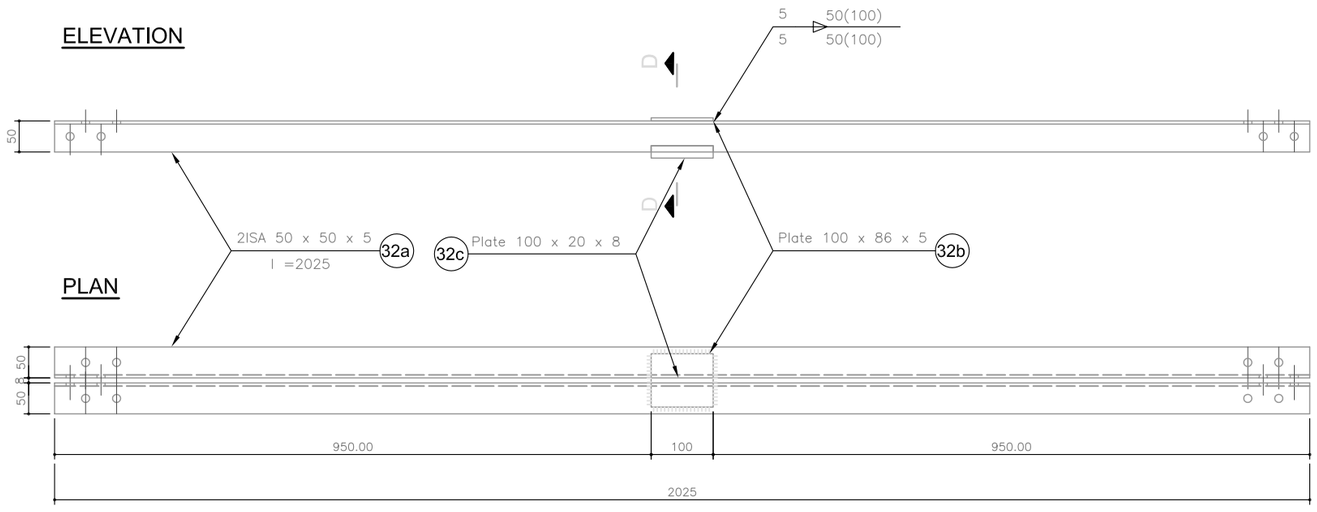
SCALE 1:10

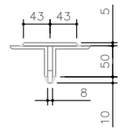


SECTION A-A

WELDING DETAIL OF BOTTOM CHORD END MEMBER (PART 32)

SCALE 1:10





SECTION D-D

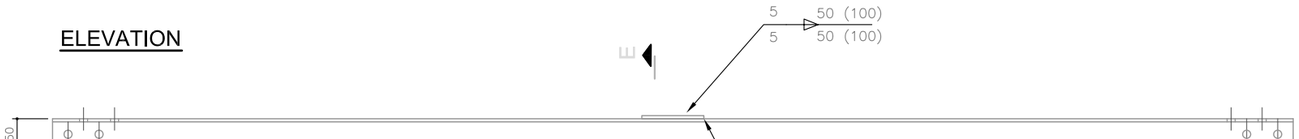
MoFALD / DoLIDAR / Trail Bridge Section Truss Bridge Standard	
Bridge No :	**Name :**
Span : 24.0 m	
Strutural Drawing : Working and Assembly Drawing	
Date: July 2013	**Drawing No:** T10 W

Produced by Government of Nepal, MoFALD, Department of Local Infrastructure Development and Agricultural Roads with the support of the Swiss Government (SDC Nepal) through ◀ helvetas Nepal ▶

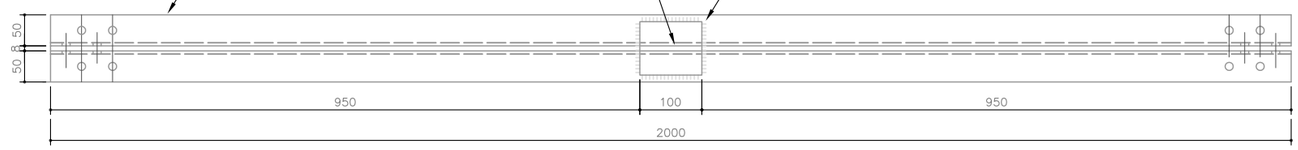
WELDING DETAIL OF BOTTOM CHORD INTERIOR MEMBER (PART 33)

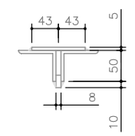
SCALE 1:10

ELEVATION



PLAN





SECTION E-E

Note :
Manufacturer should verify the Working and Assembly Drawing for it's accuracy before fabrication

NOTES :-

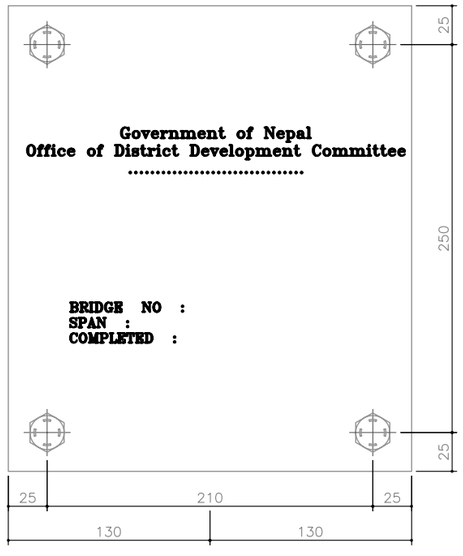
1) All nuts have to be retightened after erection.
2) All nongalvanized threads have to be painted in site with coaltar after retightening of the nuts.
3) All stellparts have to be painted with final coat after bridge erecation, only if not galvanized.
4) To obtain uniformity, use of templates and jigs is mandatory for holing, bending and welding of assembly.
5) All parts or bundles and packages with identical parts have to be labelled or marked with respective parts number by the workshop.

Para no	Item	Weight
211	Structural steel	2359.526 kg.
243	Screws, bolts,nuts,washer Standard parts	152.614
251	Rust Preventaion by galvanization	2359.526
	Brass plate Sign board Pipe and Socket	2 pcs 364.30 kg
410	Transportation	2790.523

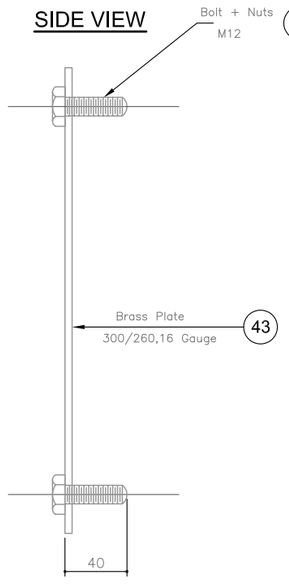
DETAIL OF SIGN BOARD

SCALE 1:4

FRONT VIEW



SIDE VIEW

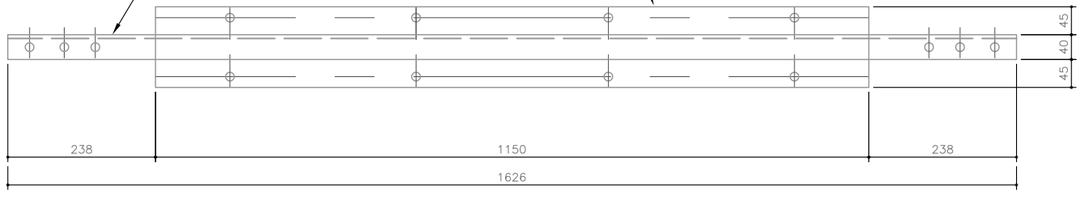


WELDING DETAIL OF (PART 34)

SCALE 1:10

ELEVATION

PLAN



Note :
Manufacturer shall re-check the workshop drawings for it's accuracy.

SIGN BOARD INSTRUCTION

LEGEND

1) Fill in the name of the bridge according. to C B R
2) Fill in the full C B R bridge number.
3) Fill in the bridge span in meters.
4) Fill in the assumed years of completion.

INSTRUCTION FOR MANUFACTURING

1) Engrave letters and symbols on brass plates as shown above with templates and engraving machine. Sample is available in S.B.D.
2) Do one plate in Nepali and one in English script. Use capital letters only. The height of the bridge name is 20 mm, all others are 10 mm.
3) Use polyurethene enamel for painting. The H.M.G symbol is in red, The background remain blank.

MoFALD / DoLIDAR / Trail Bridge Section
Truss Bridge Standard

Bridge No : **Name :**

Span : 24.0 m

Strutural Drawing :

Working and Assembly Drawing

Date: July 2013 **Drawing No:** T11 W

Produced by Government of Nepal, MoFALD, Department of Local Infrastructure Development and Agricultural Roads with the support of the Swiss Government (SDC Nepal) through ◄helvetas Nepal►