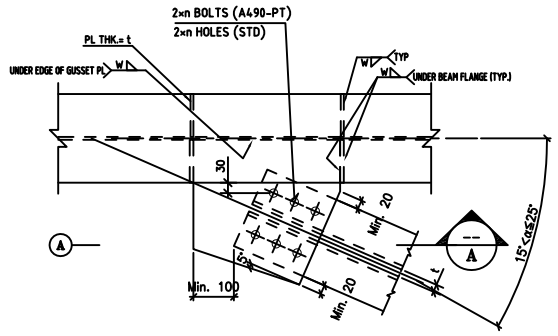
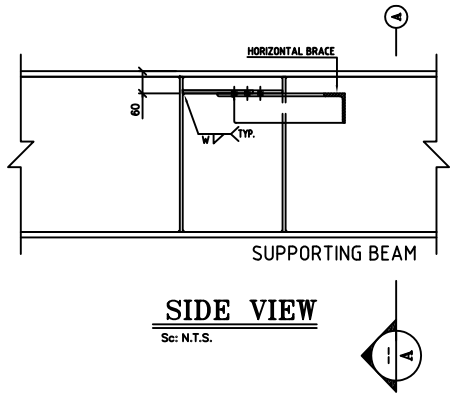
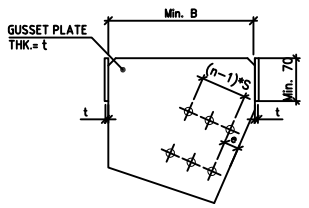
HORIZONTAL BRACE TO BEAM DOUBLE ANGLE CONNECTION



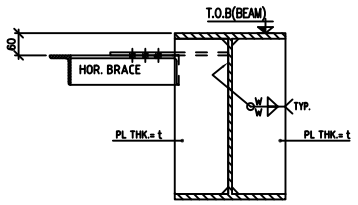
CONNECTION VIEW
Sc: 1/10



SIDE VIEW
Sc: N.T.S.



GUSEET PL ASSEMLY
Sc: N.T.S.



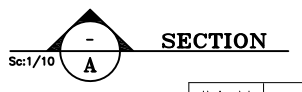


TABLE OF PARAMETERS

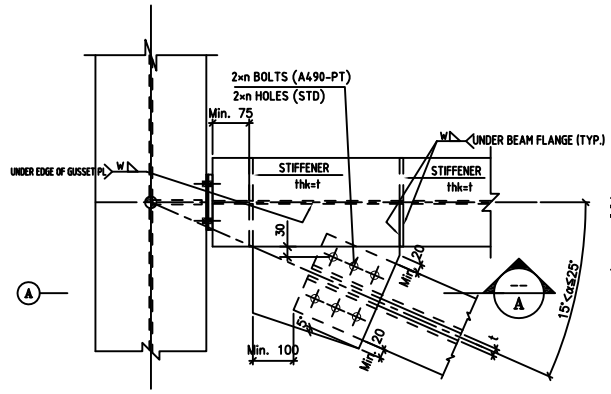
Horizontal Brace Profile	Bolts				Gusset Plate		
	n	Bolt Size	S	e	t	W	B
Name in Drawings	–	mm	mm	mm	mm	mm	mm
L60×6	3	M16	50	35	8	6	250
L80×8	5	M16	50	35	8	8	300
L100×10	5	M20	60	40	10	10	350
L120×12	5	M24	75	50	12	11	400
L150×15	7	M24	75	50	15	12	450

NOTES:

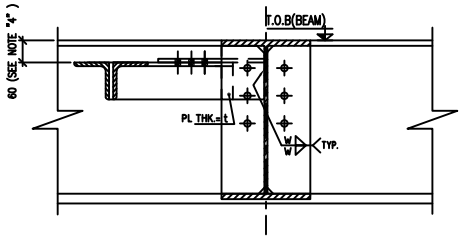
1- BEFORE PROCEEDING WITH FABRICATION SEE GENERAL NOTES FOR CONNECTIONS ON THE FIRST PAGES OF THIS DOCUMENT.
2- ALL BOLTS SHOULD BE SNUG-TIGHT UNLESS OTHERWISE NOTED IN DRAWINGS.

BEAM TO BEAM JOINT SIMPLE CONNECTION

BRACING TO COLUMN BASE TYPICAL HORIZONTAL BRACING CONN. BEAMS CORNER JOINT



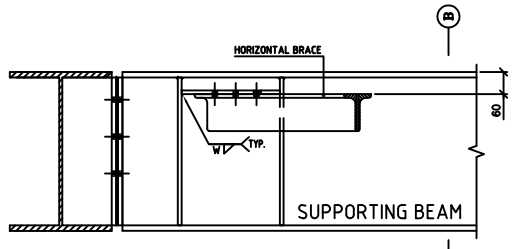
CONNECTION VIEW
Sc: 1/10

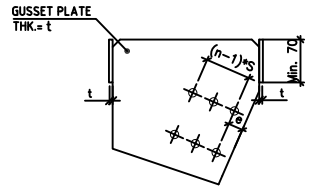


SECTION
N.T.S.

NOTES:

1- BEFORE PROCEEDING WITH FABRICATION SEE GENERAL NOTES FOR CONNECTIONS ON THE FIRST PAGES OF THIS DOCUMENT.
2- ALL BOLTS SHOULD BE SNUG-TIGHT UNLESS OTHERWISE NOTED IN DRAWINGS.
3- COLUMN CORNER CONNECTION IS AS THE SAME AS BEAM CORNER CONNECTION
4- IF HORIZONTAL BRACE CROSSES A FLOOR BEAM, THIS DISTANCE SHOULD BE ADJUST EQUAL TO THE DEPTH OF THAT BEAM.





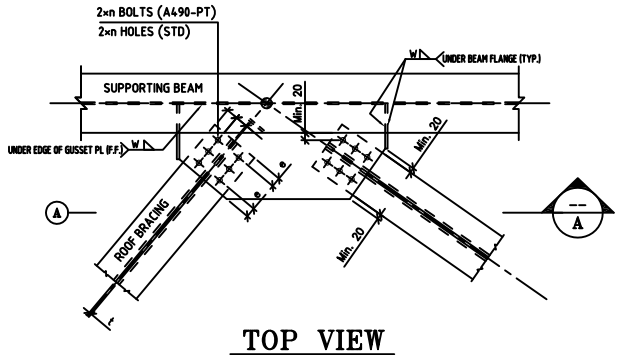
GUSEET PL ASSEMLY
Sc: N.T.S.

TABLE OF PARAMETERS

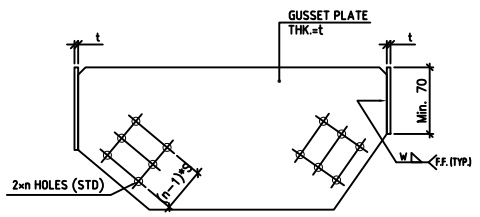
Horizontal Brace Profile	Bolts				Gusset Plate		
	n	Bolt Size	S	e	t	W	B
Name in Drawings	–	mm	mm	mm	mm	mm	mm
2×L60×6	2	M16	50	35	8	6	250
2×L80×8	3	M16	50	35	8	8	300
2×L100×10	3	M20	60	40	10	10	350
2×L120×12	3	M24	75	50	12	11	400
2×L150×15	5	M24	75	50	15	12	450

* Allowable Tensile Capacity.

TYPICAL HORIZONTAL BRACING CONN. DOUBLE BRACING JOINT



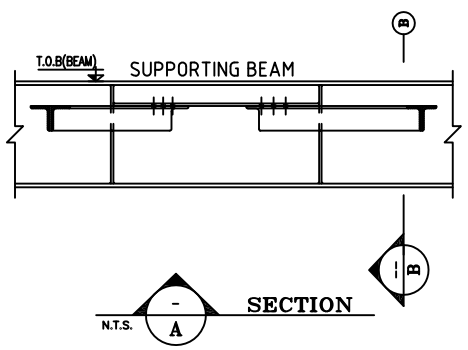
TOP VIEW
Sc: N.T.S.



GUSEET PL ASSEMLY
Sc: N.T.S.

NOTES:

1- BEFORE PROCEEDING WITH FABRICATION SEE GENERAL NOTES FOR CONNECTIONS ON THE FIRST PAGES OF THIS DOCUMENT.
2- IF THERE IS MORE THAN ONE CONNECTED ROOF BRACING IN A GUSSET PLATE, WELD SIZE AND GUSSET PLATE THICKNESS OF HEAVIER PROFILE MUST BE APPLIED.
3- FOR SITUATING OF ROOF BRACINGS SEE GENERAL ARRANGEMENT DRAWINGS.
4- BOLTS IN THIS CONNECTION SHOULD BE SNUG-TIGHT.
5- IF HORIZONTAL BRACE CROSSES A FLOOR BEAM, THIS DISTANCE SHOULD BE ADJUST EQUAL TO THE DEPTH OF THAT BEAM.



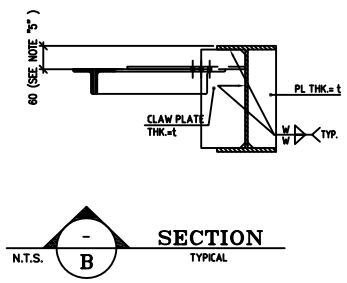
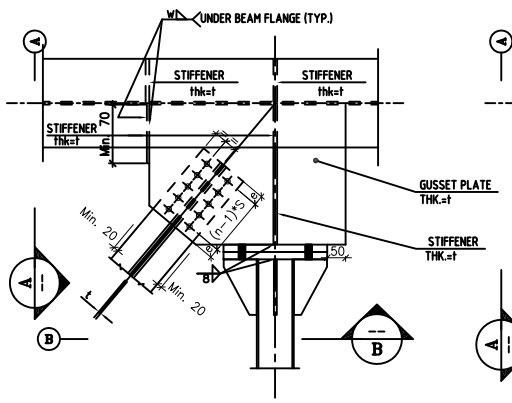


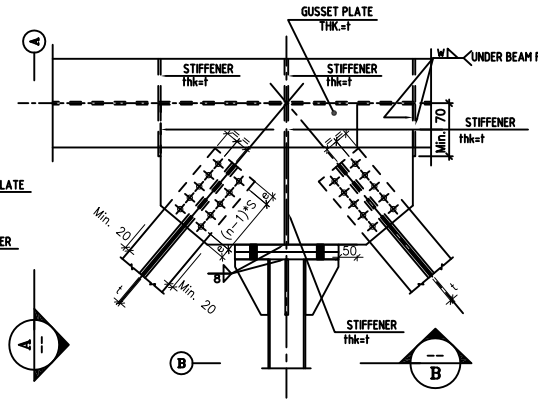
TABLE OF PARAMETERS

Horizontal Brace Profile (Name in Drawings)	Bolts				Gusset PL	
	n	Size	S	e	t	W
	–	mm	mm	mm	mm	mm
2 L60×6	3	M16	50	35	8	5
2 L80×8	5	M16	50	35	8	6
2 L100×10	5	M20	60	40	10	6
2 L120×12	5	M24	75	50	12	8
2 L150×15	7	M24	75	50	15	8

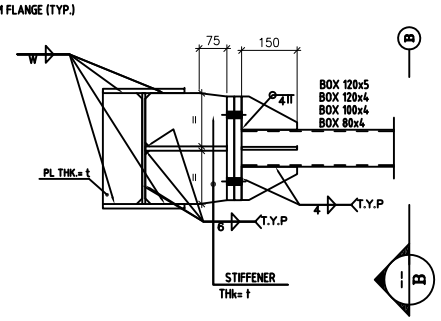
TYPICAL HORIZONTAL BRACING CONN. DOUBLE BRACING JOINT

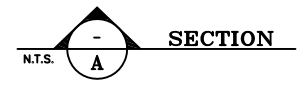


TOP VIEW
Sc: N.T.S.



TOP VIEW
Sc: N.T.S.





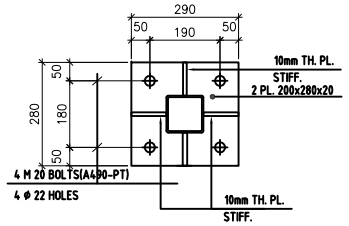


TABLE OF PARAMETERS

Horizontal Brace Profile (Name in Drawings)	Bolts				Gusset PL	
	n	Size	S	e	t	W
	–	mm	mm	mm	mm	mm
2 L60×6	3	M16	50	35	8	5
2 L80×8	5	M16	50	35	8	6
2 L100×10	5	M20	60	40	10	6
2 L120×12	5	M24	75	50	12	8
2 L150×15	7	M24	75	50	15	8

REV.	DATE	DESCRIPTION	PURPOSE OF ISSUE	PREPARE	CHECK	APPROVE
02	OCT.2015	ISSUED FOR CONSTRUCTION	IFC	H.JAFARI	M.HASANZADEH	S.ARNAVAZ
01	SEP.2015	ISSUED FOR APPROVAL	IFA	H.JAFARI	M.HASANZADEH	S.ARNAVAZ

Project: KOWSAR GISD MEGA MODULE PROJECT

Client: G.I.S.D.Co. شرکت توسعه آهن و فولاد گل گهر

Contractor: MMTE شرکت مهندسی فن آوران معادن و فلزات — MINES & METALS TECHNOLOGICAL ENGINEERING CO.

Client's Project	Project Code	Main Contractor	Area Code	Plant Group	Equipment Code	Document Type	Eng. Discipline	Serial No.
GISD	7-2	119	1003	7	AA	04	S	124

	SIGNATURE	DATE
DESIGNED	A.BAHASADI	SEP.2015
PREPARED	H.JAFARI	SEP.2015
CHECKED	M.HASANZADEH	SEP.2015
APPROVED	S.ARNAVAZ	SEP.2015

designation: AREA 350 / PIPE RACK AREA
HORIZONTAL BRACING DETAIL
2 OF 2

drawing-No.: KGMM SF 13 C3 124

repl. for: — repl. by: —

SCALE: AS SHOWN | REV.: 02 | SIZE: A1 | SHEET: -/- | CONT. & PROJ. NO.: ------

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