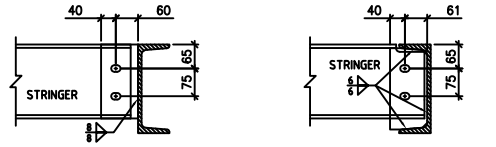
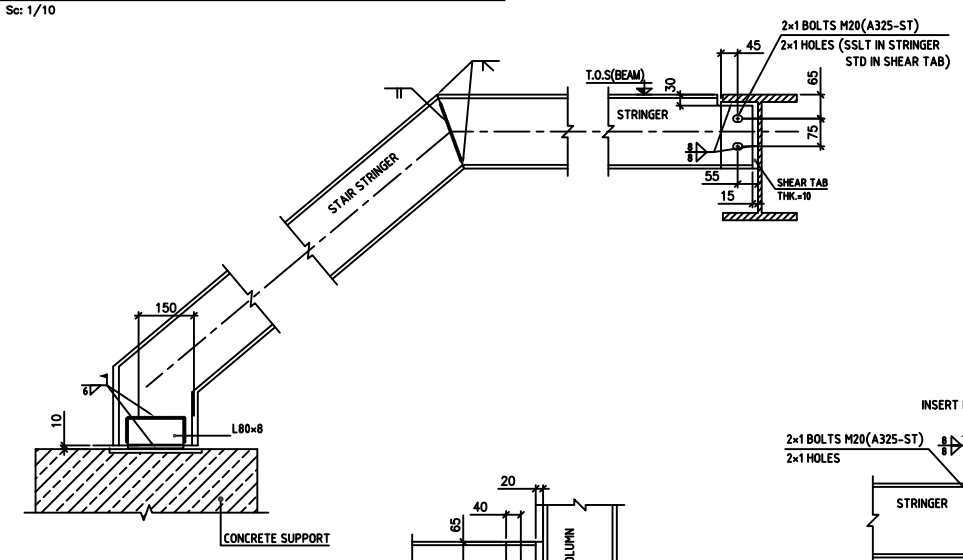
STEEL STAIR JOINTS
TYPICAL CONNECTION




## CHANNEL SUPPORTED STRINGER

Sc: 1/10




NOTES:

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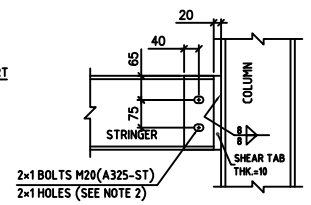
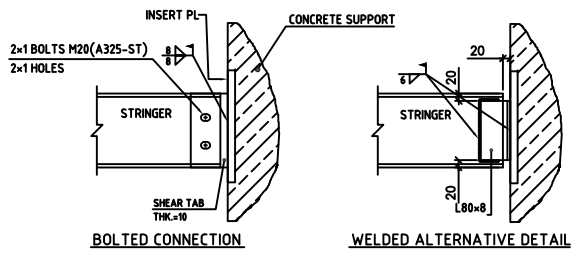
2- BOLTS IN THESE CONNECTIONS SHOULD BE SUNG-TIGHT.



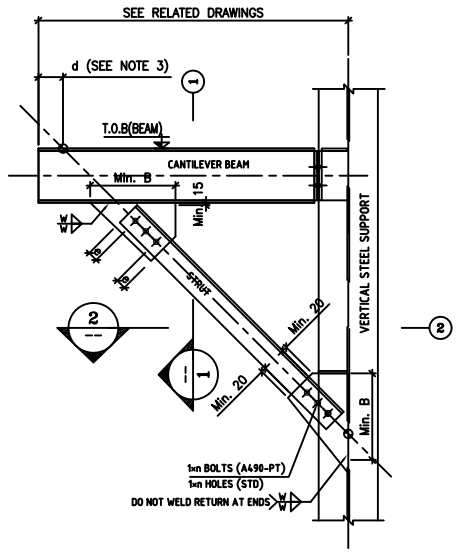

## COLUMN SUPPORTED STRINGER

Sc: 1/10



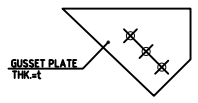

## INSERT PL SUPPORTED STRINGER

Sc: N.T.S.



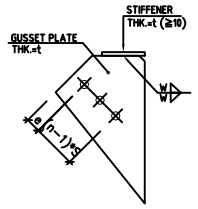

## CONNECTION VIEW

Sc: 1/10



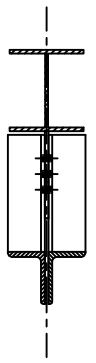

## GUSEET PLATE

Sc: N.T.S. UNDER CANTILEVER




## GUSEET PL ASSEMLY

Sc: N.T.S. INSIDE VERTICAL SUPPORT



N.T.S. - 1 SECTION

TYPICAL CANTILEVER STRUT JOINTS
DOUBLE ANGLE STRUT CONNECTION
TO COLUMN WEB

NOTES:

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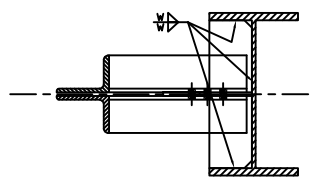
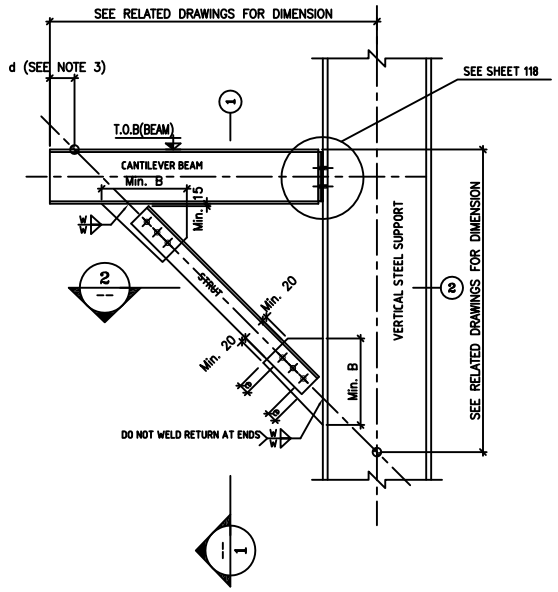
2- FOR CONNECTION DETAIL OF OTHER TYPES OF STRUT WITH DIFFERENT CROSS SECTION AND VERTICAL SUPPORT SEE OTHER PAGES IN THIS DRAWING.
3- IF NOT SPECIFIED IN GENERAL ARRANGEMENT DRAWINGS "d" MUST BE ZERO.
4- BOLTS IN THIS CONNECTION SHOULD BE SNUG-TIGHT.



N.T.S. - 2 SECTION

TABLE OF PARAMETERS

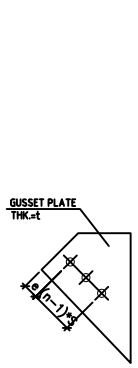
| Horizontal Brace Profile | Bolts | | | | Gusset Plate | | |
|---|---|---|---|---|---|---|---|
| | n | Bolt Size | S | e | t | W | B |
| Name in Drawings | – | mm | mm | mm | mm | mm | mm |
| 2L60×6 | 3 | M16 | 50 | 35 | 8 | 6 | 250 |
| 2L80×8 | 5 | M16 | 50 | 35 | 8 | 8 | 300 |
| 2L100×10 | 5 | M20 | 60 | 40 | 10 | 10 | 350 |
| 2L120×12 | 5 | M24 | 75 | 50 | 12 | 11 | 400 |
| 2L150×15 | 7 | M24 | 75 | 50 | 15 | 12 | 450 |

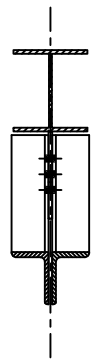



## CONNECTION VIEW

Sc: 1/10

TYPICAL CANTILEVER STRUT JOINTS
DOUBLE ANGLE STRUT CONNECTION
TO COLUMN FLANGE



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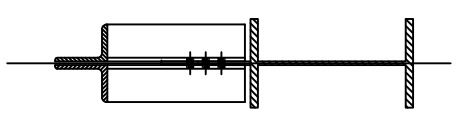
## GUSEET PL ASSEMLY

Sc: N.T.S. SIMILAR FOR BOTH ENDS

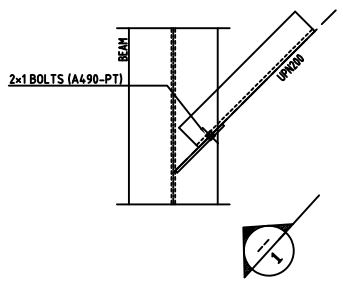
N.T.S. - 1 SECTION



N.T.S. - 2 SECTION

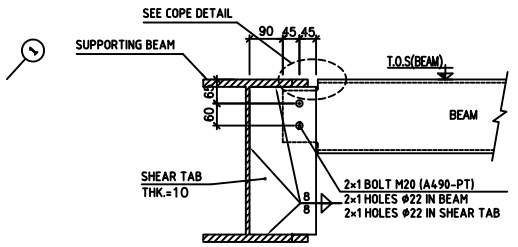
TABLE OF PARAMETERS

| Horizontal Brace Profile | Conn. Cap. | Bolts | | | | Gusset Plate | | |
|---|---|---|---|---|---|---|---|---|
| | Tension* | n | Bolt Size | S | e | t | W | B |
| Name in Drawings | kN | – | mm | mm | mm | mm | mm | mm |
| 2L60×6 | 98 | 3 | M16 | 50 | 35 | 8 | 6 | 250 |
| 2L80×8 | 174 | 5 | M16 | 50 | 35 | 8 | 8 | 300 |
| 2L100×10 | 270 | 5 | M20 | 60 | 40 | 10 | 10 | 350 |
| 2L120×12 | 388 | 5 | M24 | 75 | 50 | 12 | 11 | 400 |
| 2L150×15 | 606 | 7 | M24 | 75 | 50 | 15 | 12 | 450 |

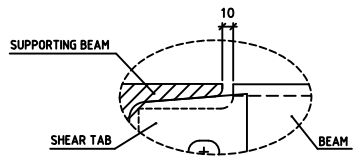



## DETAIL "1"

Sc: N.T.S.




1/10 - 1 SECTION




## COPE DETAIL

Sc: 1/5

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

Contractor: شرکت مهندسی فن آوری معادن و فلزات MMTE 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 | 125 |

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

designation: AREA 350 / PIPE RACK AREA
STEEL STAIR JOINTS TYPICAL DETAIL AND TYPICAL CANTILEVER STRUT JOINTS & DETAILS
drawing-No.: KGMM SF 13 C3 125
repl. for: ------ repl. by : ------

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

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