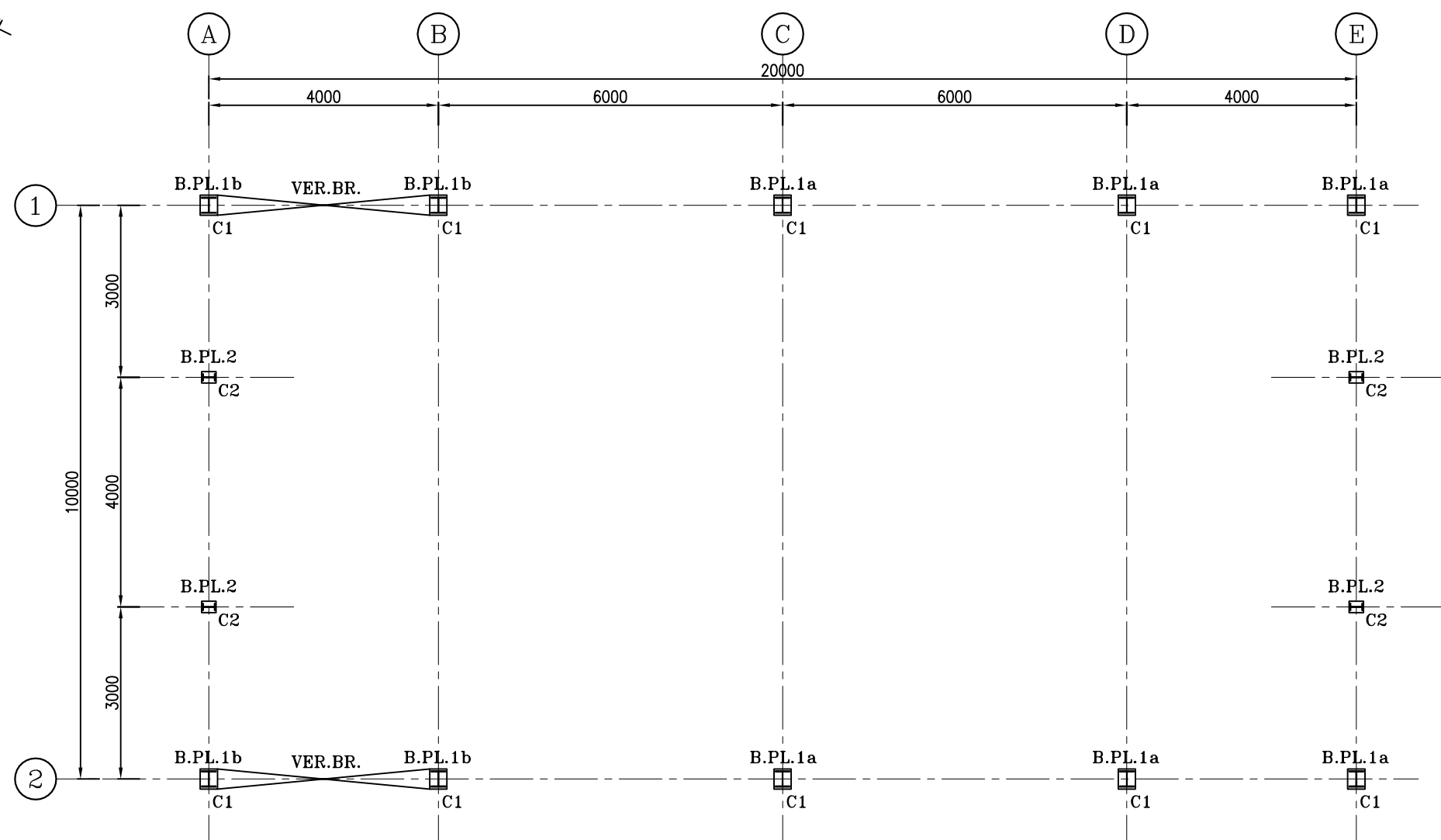




Technical drawing of a base plate (1a) showing dimensions and material specifications. The drawing includes a top view and a side view. The top view shows a rectangular plate with overall dimensions of 300 mm by 350 mm. The width is divided into three sections: 70 mm, 160 mm, and 70 mm. The height is divided into three sections: 110 mm, 130 mm, and 110 mm. The plate is made of PL 350x300x20. The bottom view shows a circular hole with a diameter of 40 mm, centered on the plate. The hole is labeled with the text 4-T-F1-20-130-500. The drawing is labeled with the text BASE PLATE 1a and the scale 1:10. The drawing is also labeled with the text N=6.

Technical drawing of a base plate (1b) showing dimensions and components. The drawing includes a cross-section view and a top view. The cross-section view shows a base plate with a thickness of 10 mm, a total height of 350 mm, and a total width of 400 mm. The base plate is divided into three horizontal sections: a top section of 110 mm, a middle section of 130 mm, and a bottom section of 110 mm. The top section is labeled 'PL 400x300x20' and the middle section is labeled 'PL 100x100x20'. The bottom section is labeled '4-T-F1-20-130-500'. The top view shows a rectangular plate with a total width of 400 mm and a total height of 350 mm. The plate is divided into three horizontal sections: a top section of 110 mm, a middle section of 130 mm, and a bottom section of 110 mm. The top section is labeled 'PL 400x300x20' and the middle section is labeled 'PL 100x100x20'. The bottom section is labeled '4-T-F1-20-130-500'. The drawing also shows a 'GUSSET PLATE' and a 'BASE PLATE 1b'.

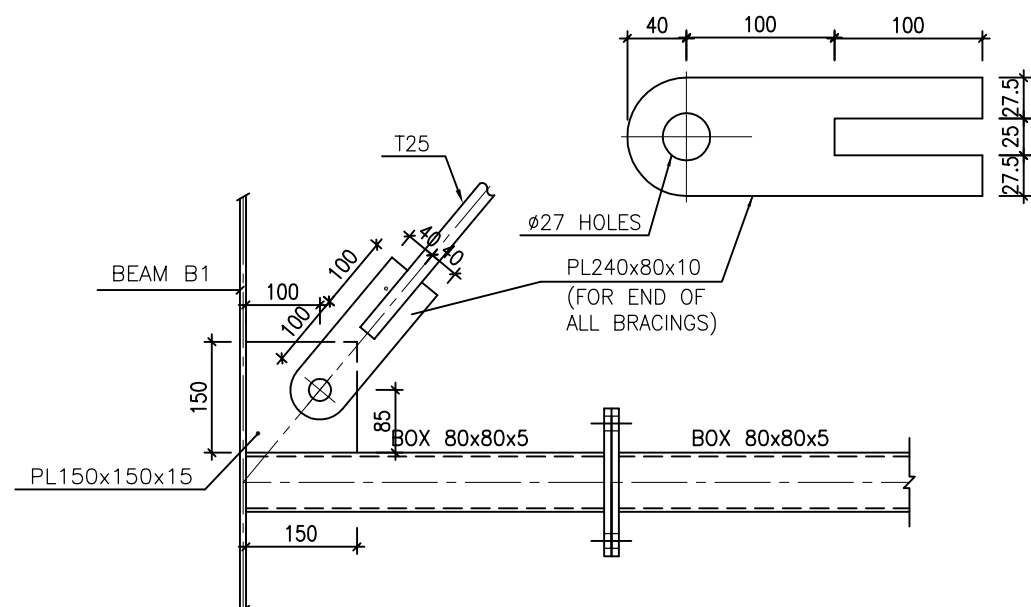
Technical drawing of a base plate. The drawing shows a rectangular plate with dimensions 250x200. The plate has a central horizontal slot with a width of 125 and a depth of 25. The plate is labeled "PL250x200x12". The drawing is scaled 1:10 and is labeled "BASE PLATE 2" with "N=4".

- | | | | |
|----------|-----------------------|---|---------------------|
| F.G.L. | : FINISH GROUND LEVEL |  | REINFORCED CONCRETE |
| T.O.G. | : TOP OF GROUT | | |
| T.O.F. | : TOP OF FOUNDATION |  | LEAN CONCRETE |
| B.O.B.P. | : BOTTOM OF BASEPLATE | | |
| T.O.B. | : TOP OF BEAM |  | GROUND |
| T.O.PED. | : TOP OF PEDESTAL | | |
| C.O.ST. | : CENTER OF STRUT | | |
| T.O.S. | : TOP OF STEEL | | |

REFERENCE DRAWING	DRG. No.
CALCULATION NOTE FOR FIRE WATER PUMP SHELTER	BK-GCS-PEDCO-120-ST-CN-000s
FOUNDATION DRAWING FOR FIRE WATER PUMP SHELTER	BK-GCS-PEDCO-120-ST-DW-006s
ARCHITECTURAL DRAWING FOR FIRE WATER PUMP SHELTER	BK-GCS-PEDCO-120-AR-ST-DW-000s
STANDARD DRAWING FOR ANCHOR BOLTS	BK-GN-AL-PEDCO-000-ST-DW-000s
GENERAL NOTES-STEEL STRUCTURES	BK-GN-AL-PEDCO-000-ST-DW-000s
SPECIFICATION FOR ERECTION OF STEEL STRUCTURES	BK-GN-AL-PEDCO-000-ST-SP-000s
SPECIFICATION FOR FABRICATION OF STEEL STRUCTURES	BK-GN-AL-PEDCO-000-ST-SP-000s
SPECIFICATION FOR STEEL STRUCTURAL WORK	BK-GN-AL-PEDCO-000-ST-SP-000s
UNIT PLOT PLAN DRAWING	BK-GCS-PEDCO-120-PL-PY-0000s
GEOTECHNICAL INVESTIGATION REPORT FOR COMPRESSOR STATION	BK-GCS-PEDCO-120-ST-RT-0000s
SPECIFICATION FOR GROUTING	BK-GN-AL-PEDCO-000-ST-SP-000s
SPECIFICATION FOR PAINTING	BK-GN-AL-PEDCO-000-PL-SP-000s
STANDARD DRAWING FOR FIREPROOFING	BK-GN-AL-PEDCO-000-ST-DW-000s

[illegible]

1:100  ROOF PURLIN PLAN



Technical drawing of a turnbuckle assembly. The assembly consists of a central turnbuckle with two threaded sections, each 200 units long. The turnbuckle is connected to two horizontal bars, each with a diameter of 25 units. The bars are labeled "BRACING". The turnbuckle is labeled "TURNBUCKLE".

180x5995 PURLIN

5995

1960 2000 1960

35 35

80

40 60 40 60 40 60 40 60

2x14 HOLES

2x14 HOLES

2x14 HOLES

2x14 HOLES

4x12 BOLTS

180 60 22

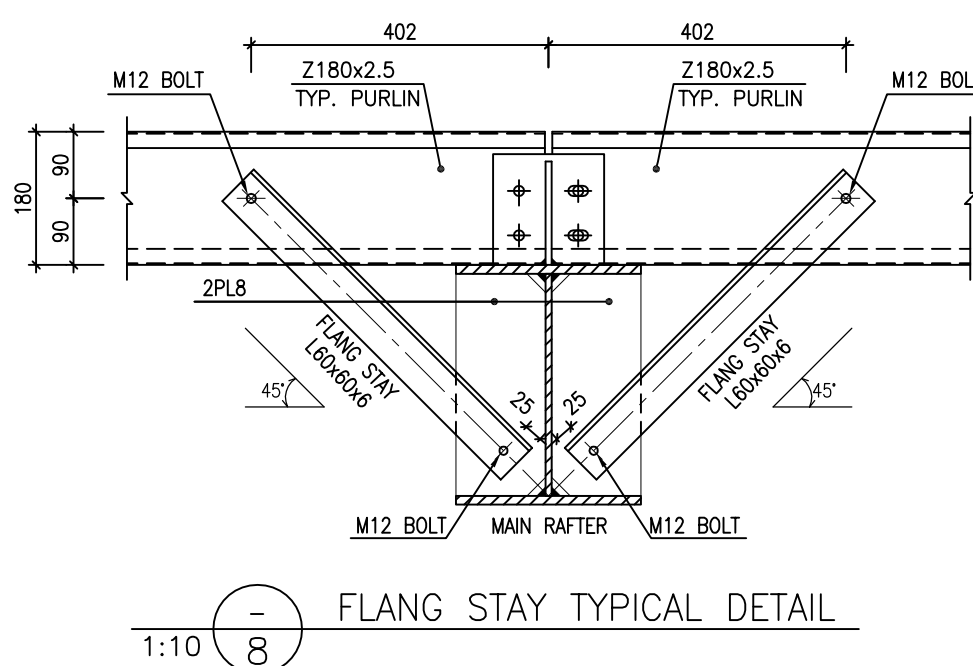
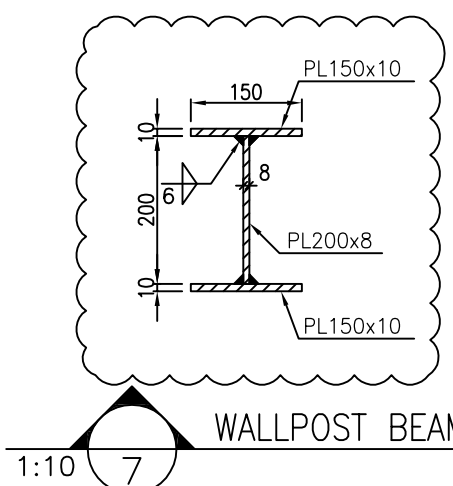
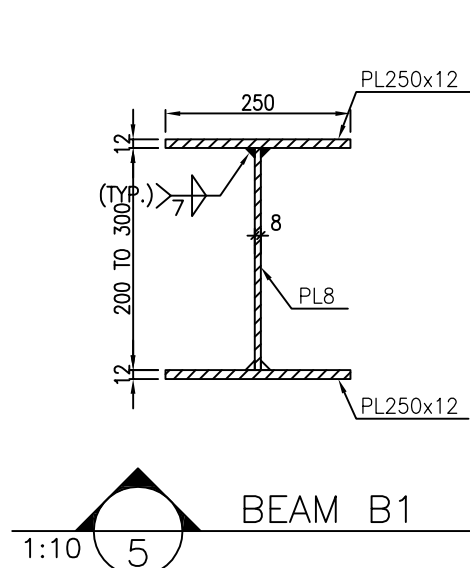
7180X2.5 PURLIN

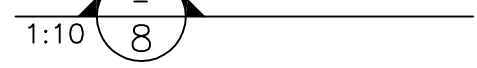
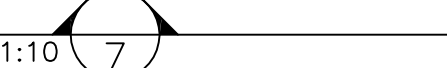
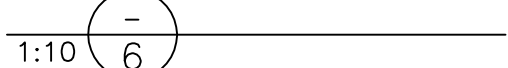
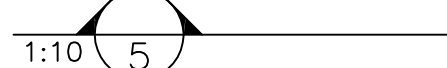
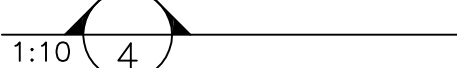
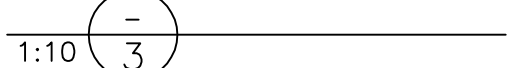
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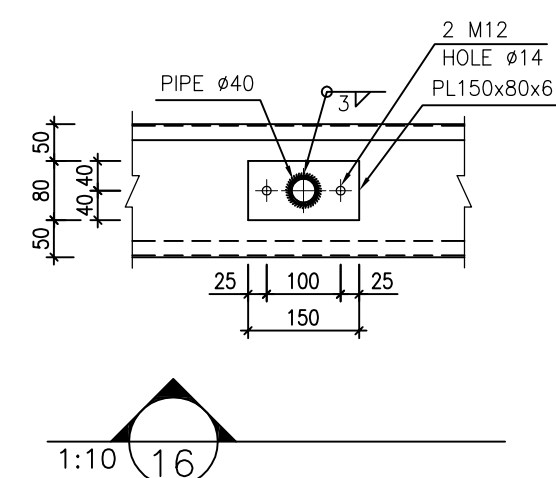
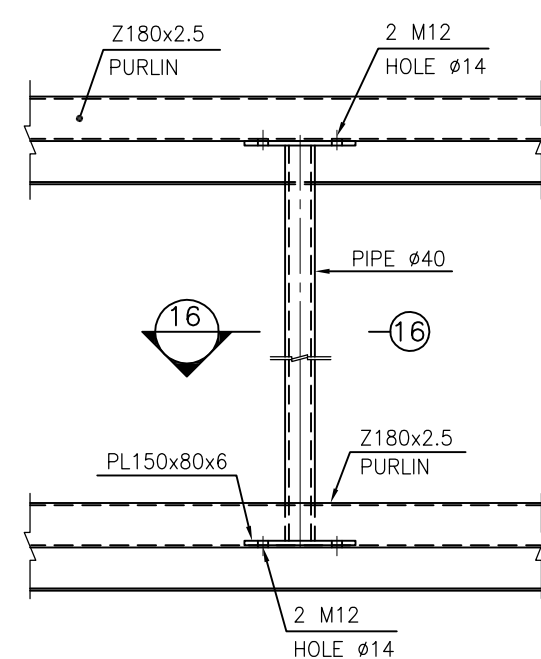
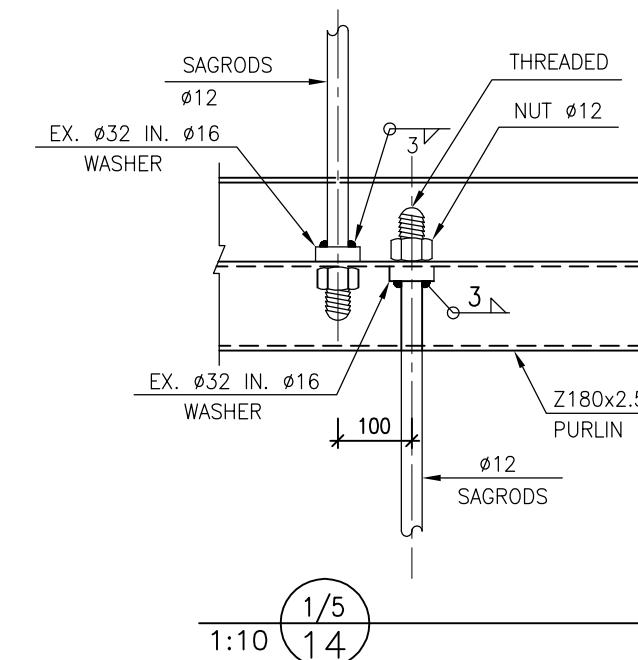
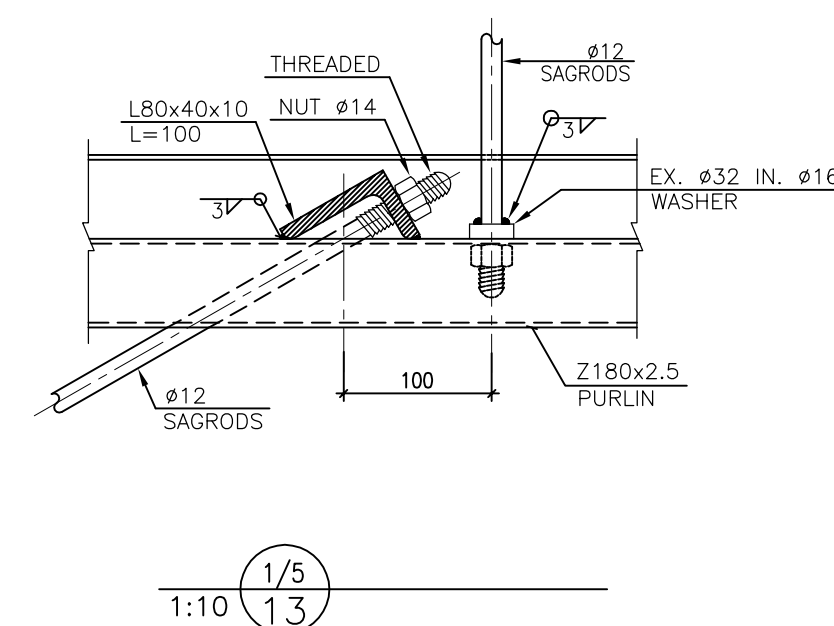
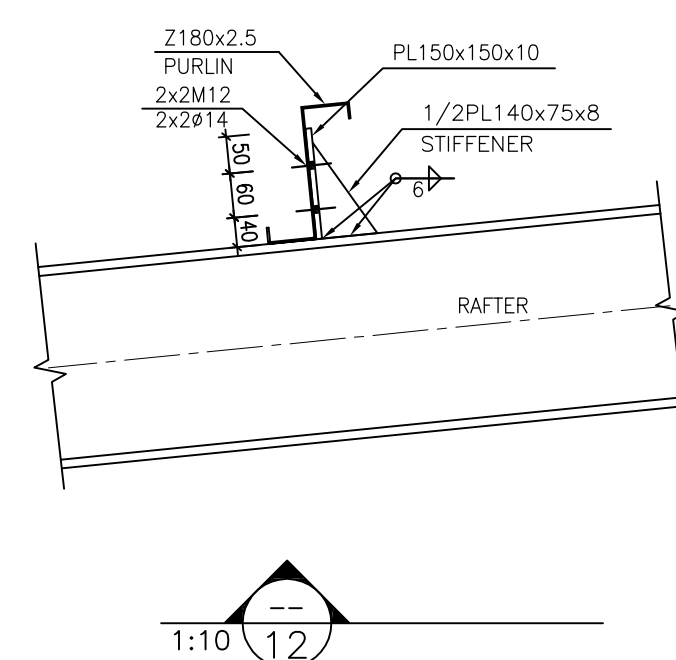
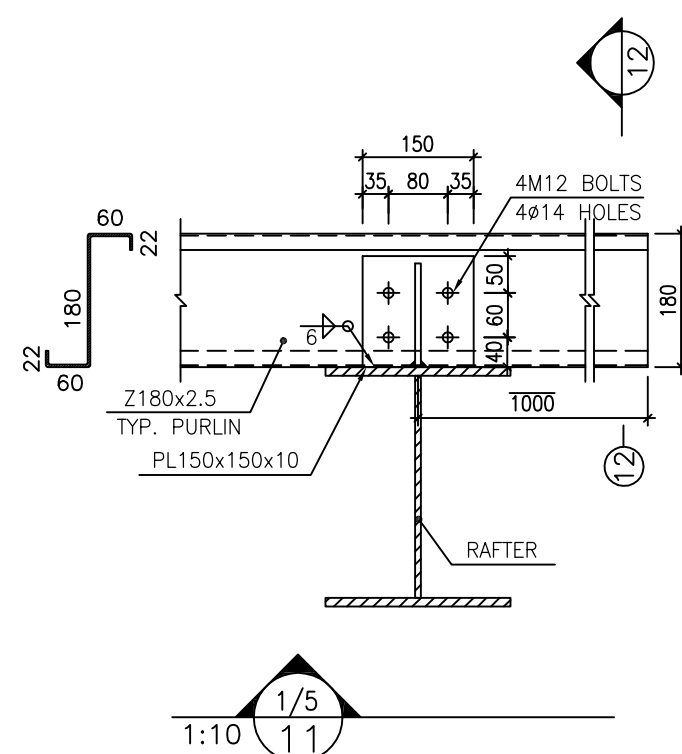
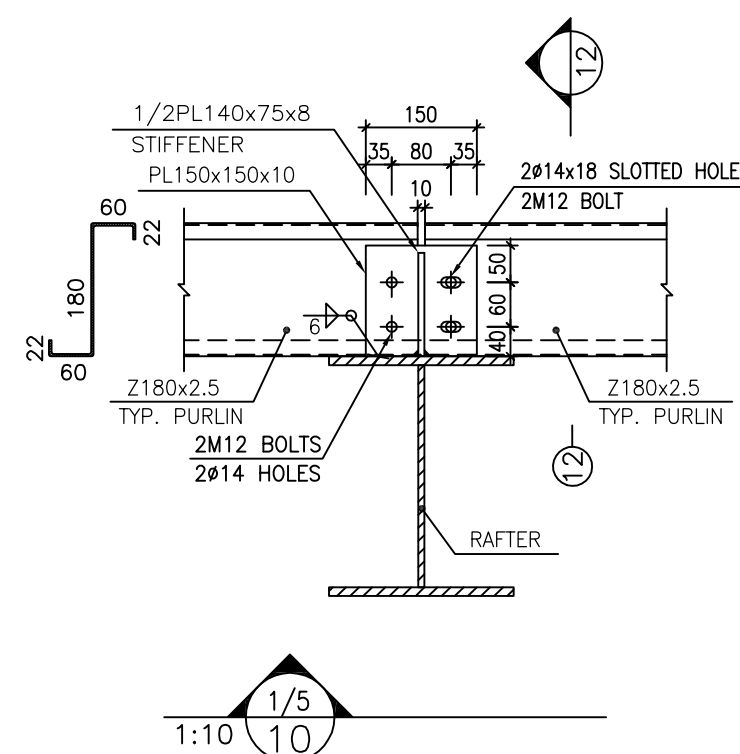
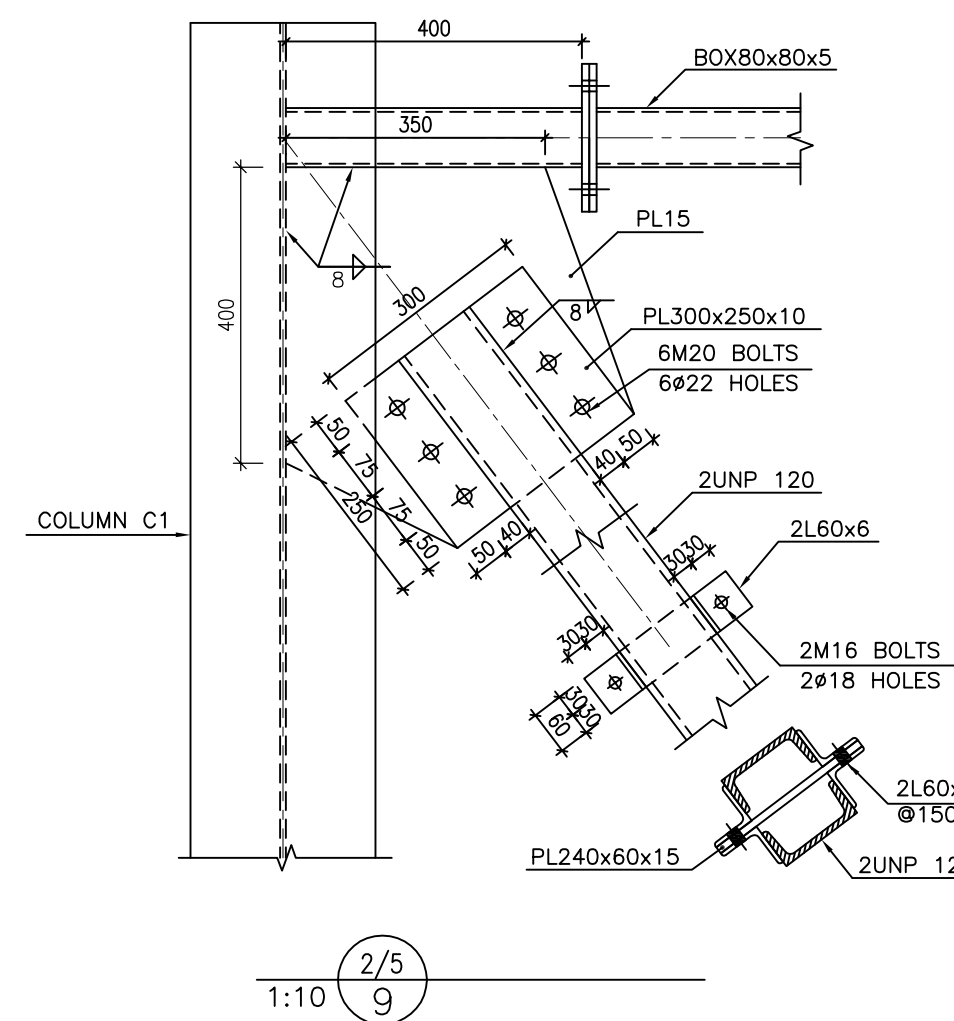
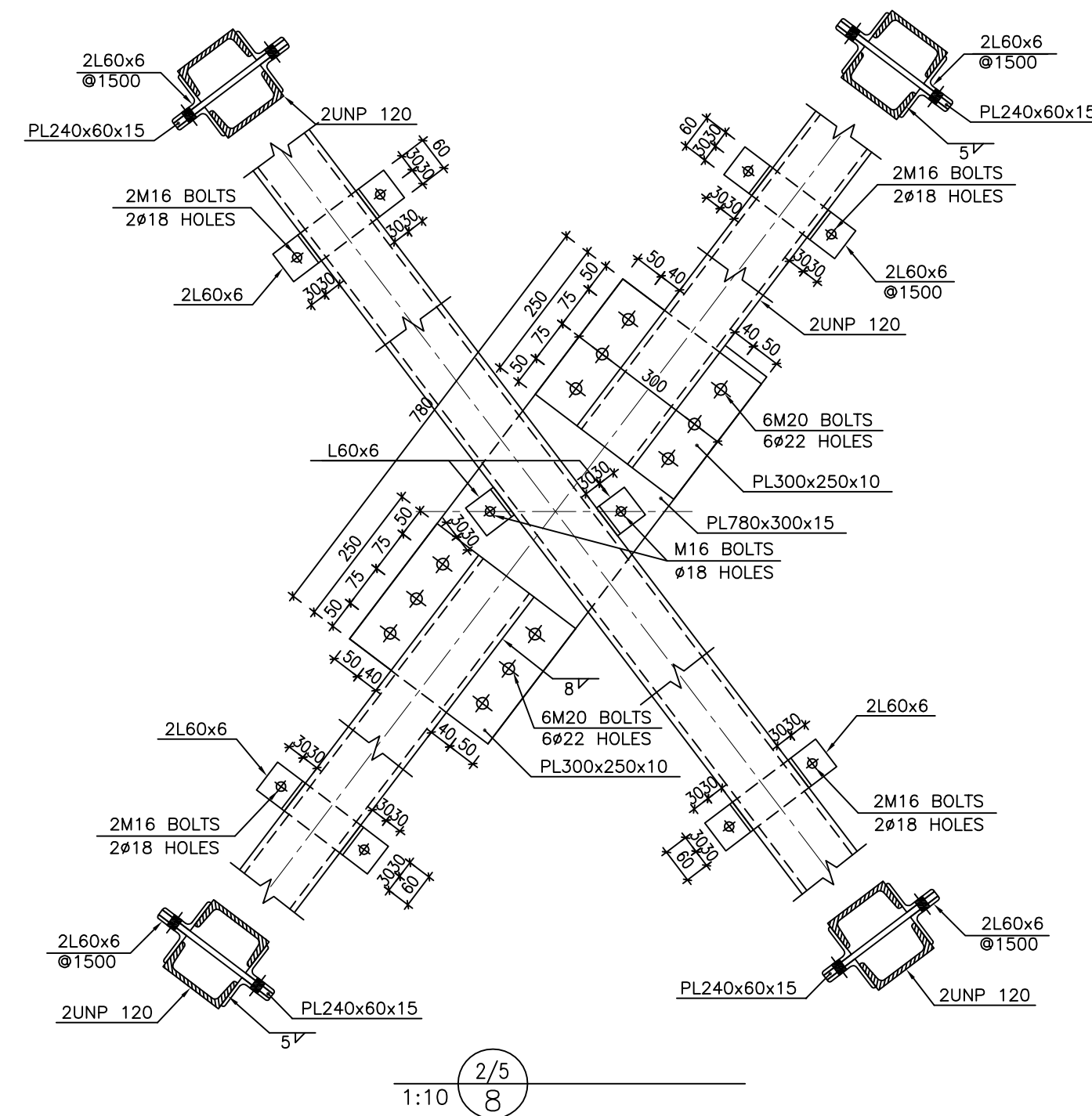
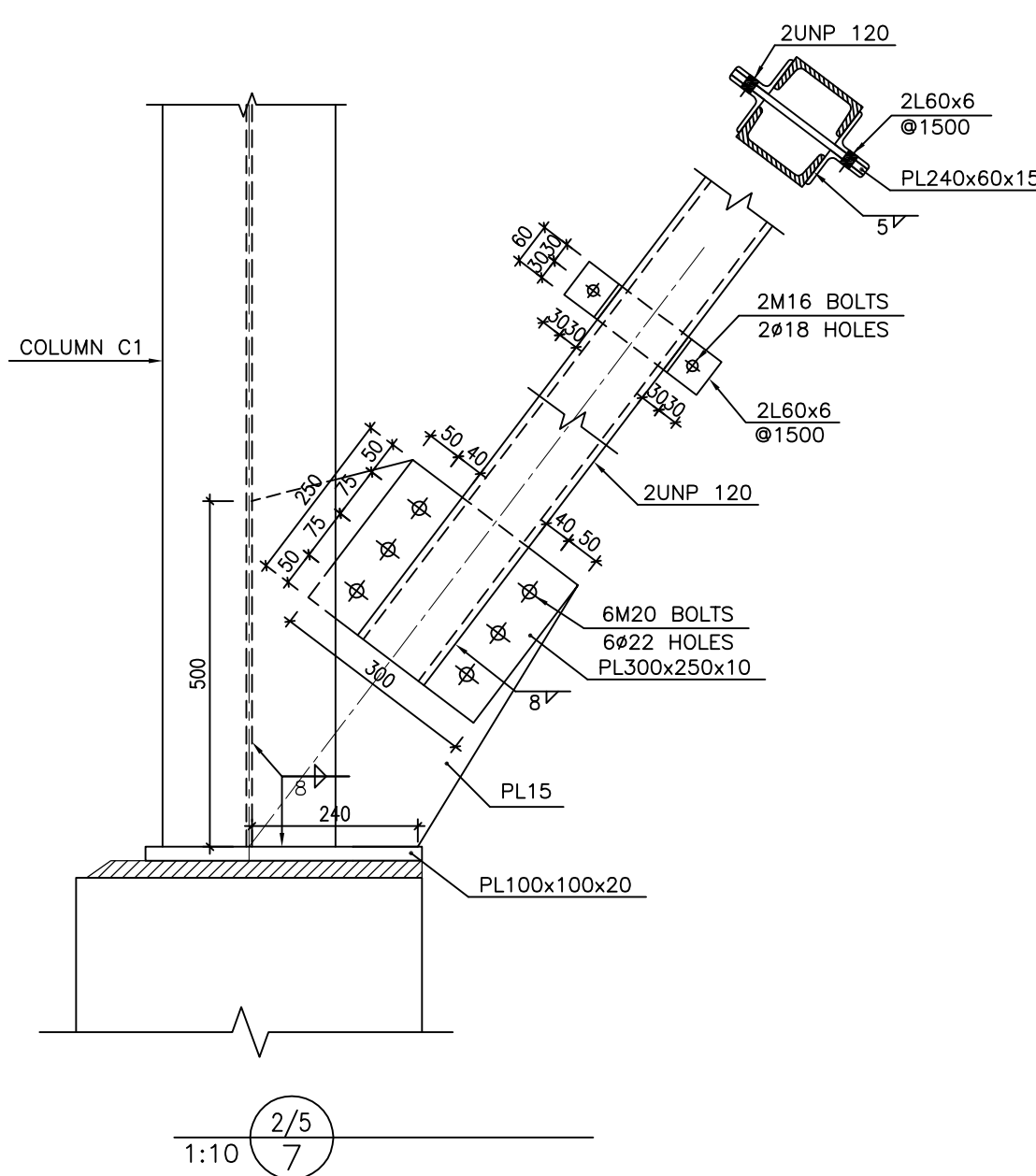
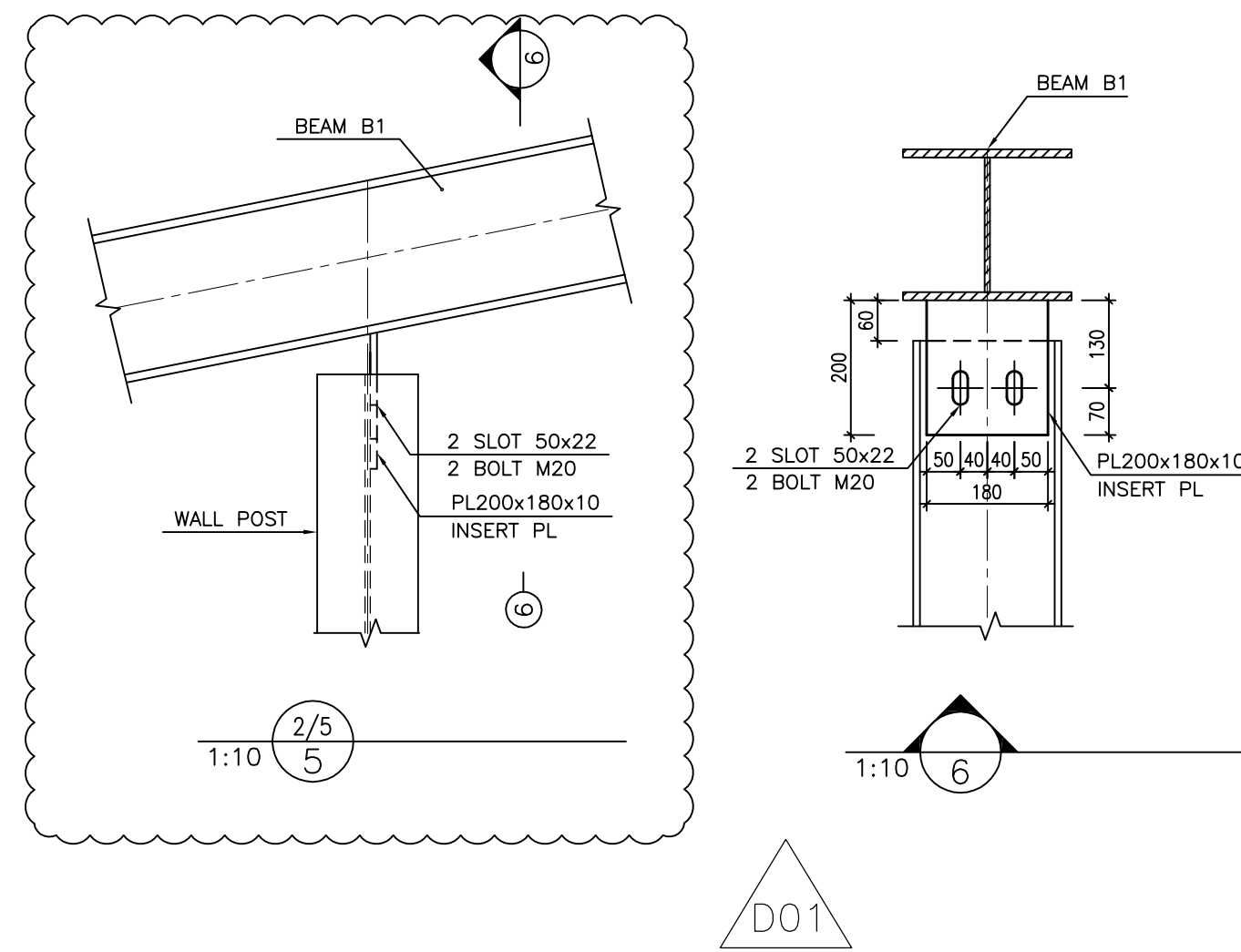
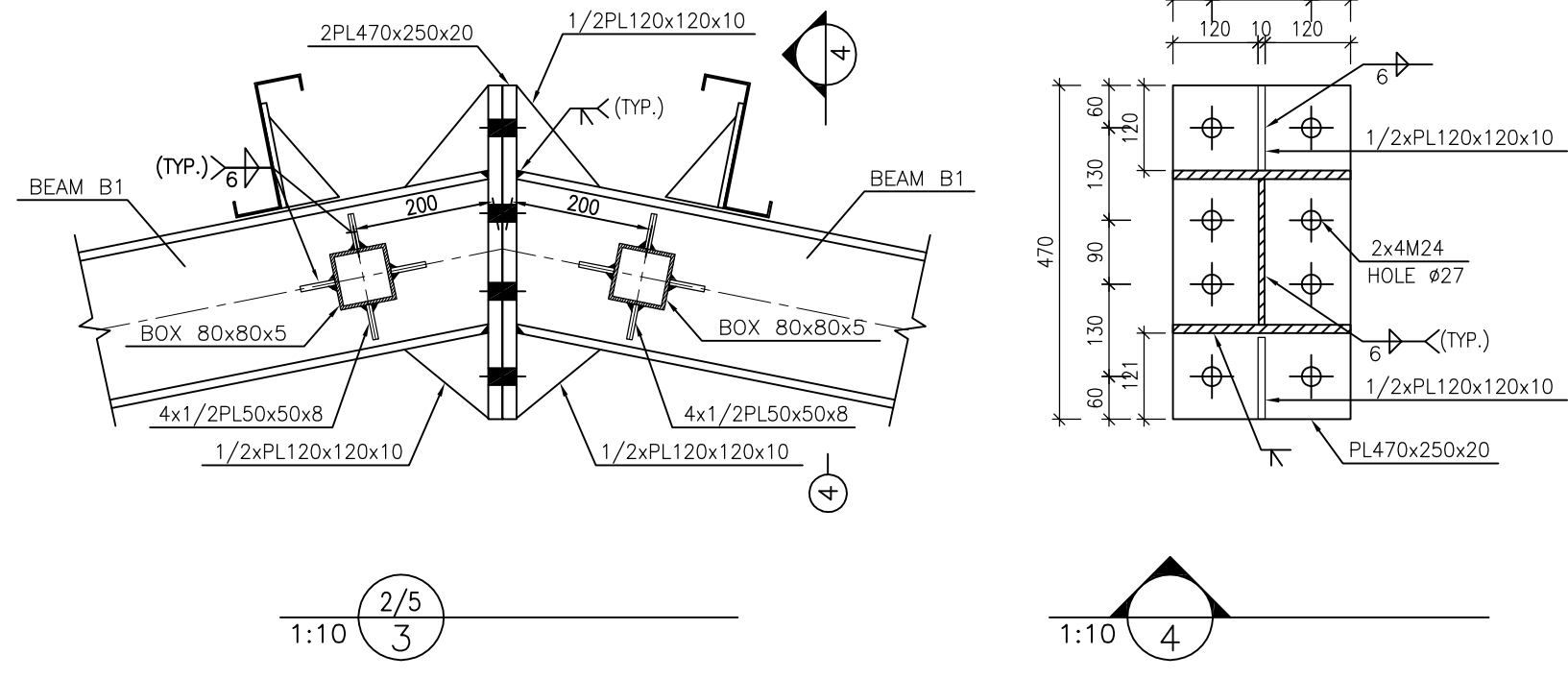
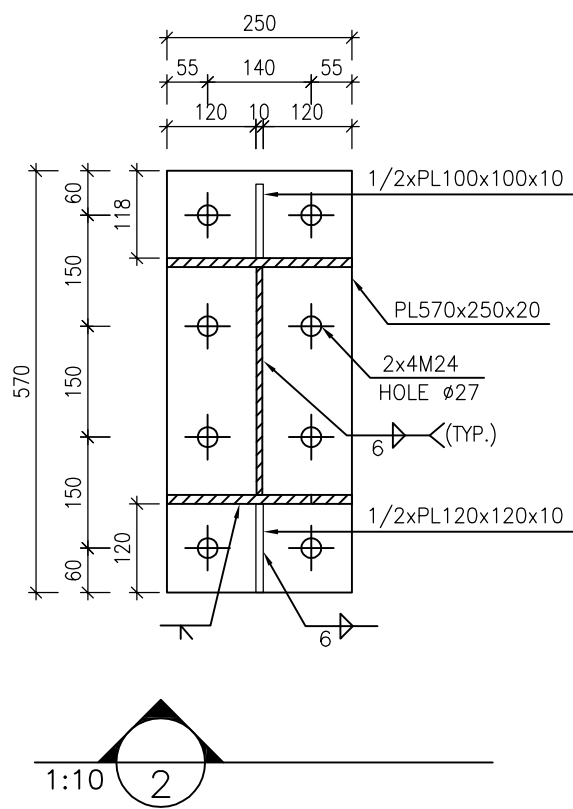
D01	NOV.20
D00	AUG.20
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PROJECT NAME:	
PROJECT NO.:	

1:10  TYPICAL ROOF PURLIN

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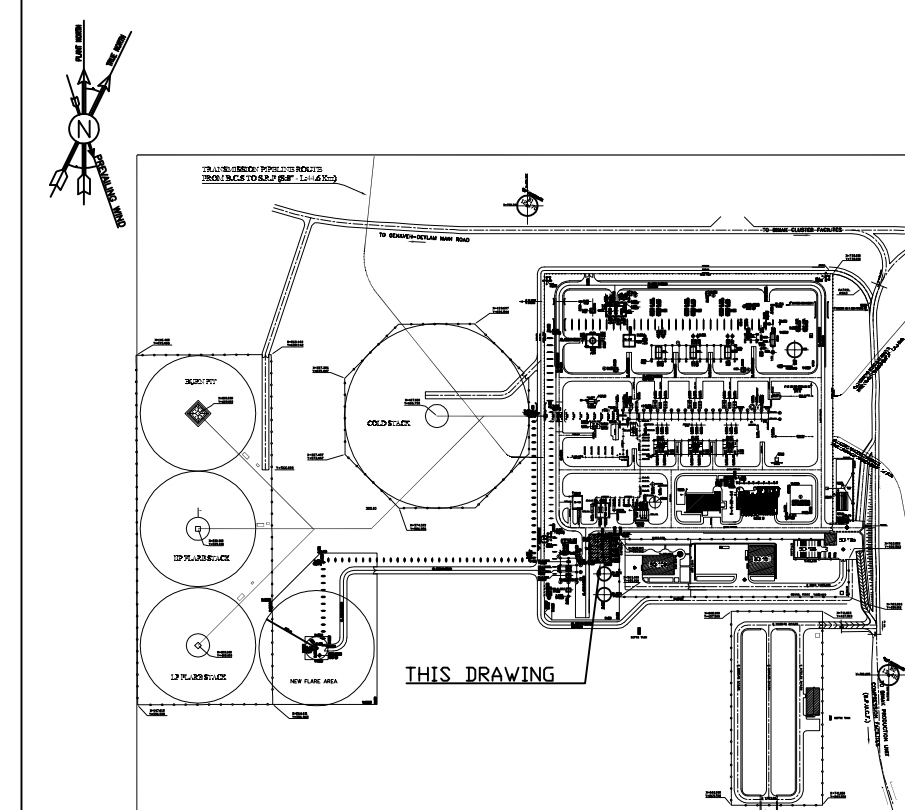
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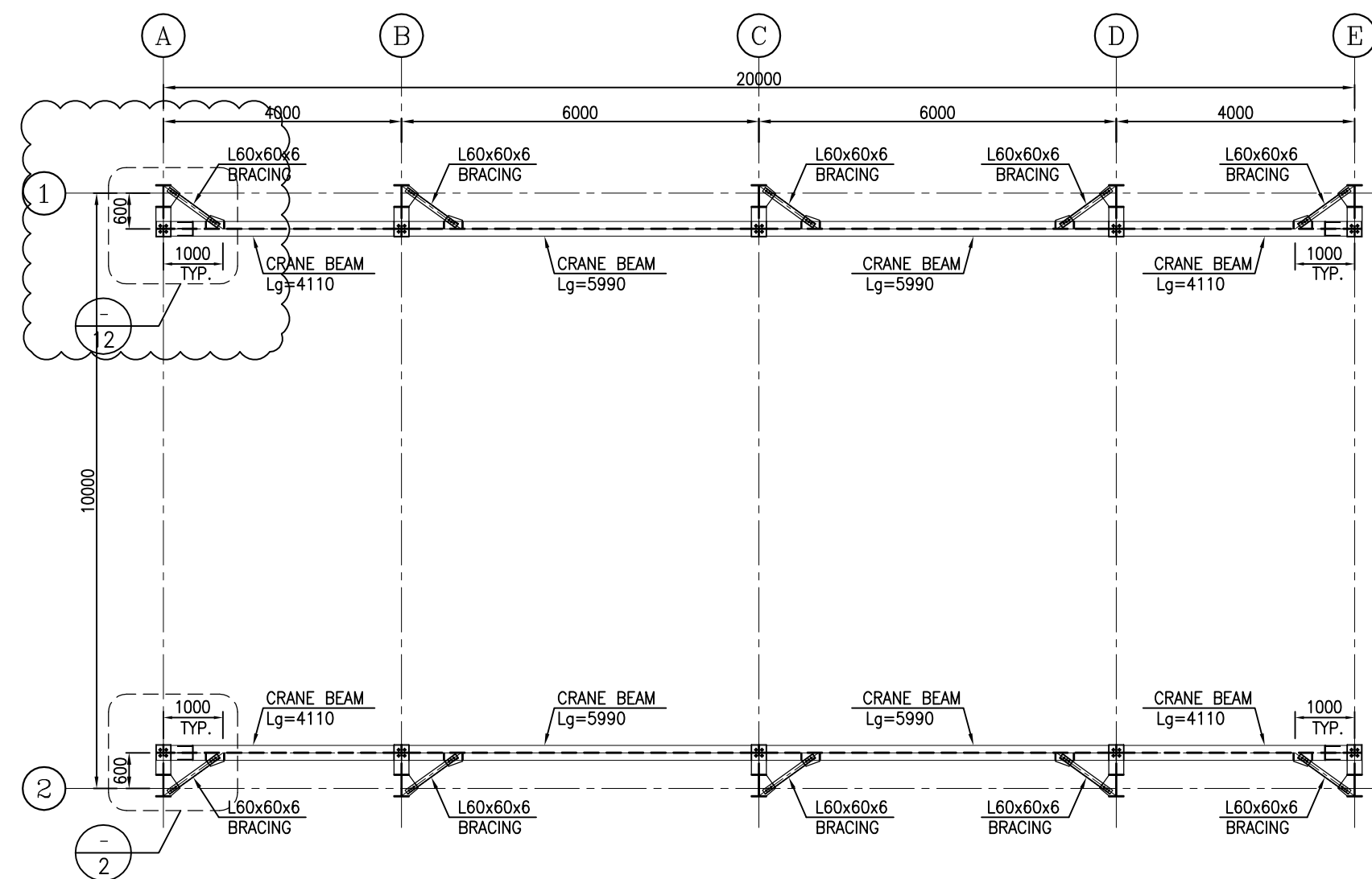


1:10 (15) TYP. PIPE TO PURLIN CONNECTION DETAIL

- | REFERENCE DRAWING | DRG. No. |
|--|-----------------------------|
| CALCULATION NOTE FOR FIRE WATER PUMP SHELTER | BK-GCS-PEDCO-120-ST-CN-000 |
| FOUNDATION DRAWING FOR FIRE WATER PUMP SHELTER | BK-GCS-PEDCO-120-ST-DW-000 |
| ARCHITECTURAL DRAWING FOR FIRE WATER PUMP SHELTER | BK-GCS-PEDCO-120-AR-DW-000 |
| STANDARD DRAWING FOR ANCHOR BOLTS | BK-GNRL-PEDCO-000-ST-DW-000 |
| GENERAL NOTES-STEEL STRUCTURES | BK-GNRL-PEDCO-000-ST-DW-000 |
| SPECIFICATION FOR ERECTION OF STEEL STRUCTURES | BK-GNRL-PEDCO-000-ST-SP-000 |
| SPECIFICATION FOR FABRICATION OF STEEL STRUCTURES | BK-GNRL-PEDCO-000-ST-SP-000 |
| SPECIFICATION FOR STEEL STRUCTURAL WORK | BK-GNRL-PEDCO-000-ST-SP-000 |
| UNIT PLAN DRAWING | BK-GCS-PEDCO-120-PL-PY-000 |
| GEOTECHNICAL INVESTIGATION REPORT FOR COMPRESSOR STATION | BK-GCS-PEDCO-120-GT-RT-000 |
| SPECIFICATION FOR GROUTING | BK-GNRL-PEDCO-000-ST-SP-000 |
| SPECIFICATION FOR PAINTING | BK-GNRL-PEDCO-000-PL-SP-000 |
| STANDARD DRAWING FOR FIREPROOFING | BK-GNRL-PEDCO-000-ST-DW-000 |

KEY PLAN

[illegible]

[illegible][illegible]

Technical drawing of a crane runway beam connection. The drawing shows a side elevation of a column-to-beam joint. A horizontal column is connected to a vertical crane runway beam. The connection uses a PL 350x120x10 stiffener on the column side and a PL 500x250x10 stiffener on the beam side. The stiffeners are connected by 2M20 bolts. The beam has a 2M20 bolt with a 22mm hole. The column has a 2M20 bolt with a 22x50 slotted hole. The beam has a 250mm wide flange. The column has a 350mm wide flange. The connection is located 125mm from the column face and 125mm from the beam end. The beam has a total length of 600mm. The column has a total height of 1000mm. The connection is labeled with dimensions and material specifications.

Diagram illustrating the elevation view of the column and beam connection. Key components and dimensions include:

- CRANE RUNWAY BEAM** (top horizontal member)
- 2M16 BOLT 2ø18x40 SLOTTED HOLE** (top bolts)
- MAX. 1000** (dimension for top bolt spacing)
- 2M20 BOLT 2ø22 HOLE** (middle bolts)
- PL10 STIFFENER Ø1000** (middle stiffener)
- 240** (vertical dimension for middle stiffener)
- 70** (vertical dimension for middle stiffener)
- 60** (horizontal dimension for middle stiffener)
- 100** (horizontal dimension for middle stiffener)
- 60** (horizontal dimension for middle stiffener)
- PL220x200x10** (bottom plate)
- 2M20 BOLT 2ø22 HOLE** (bottom bolts)
- 75** (horizontal dimension for bottom plate)
- 100** (horizontal dimension for bottom plate)
- 175** (horizontal dimension for bottom plate)
- 2M20 BOLT 2ø22x50 SLOTTED HOLE** (bottom bolts)
- CORBEL** (bottom horizontal member)
- COLUMN C1** (vertical member)

[illegible]

The diagram illustrates a roof rafter assembly. A curved line represents the roof profile. A horizontal line is labeled "STEEL BEAM (RAFTER)". Two vertical lines are labeled "Z180x2.5 PURLIN". A diagonal line is labeled "#12 SAG ROD". The sag rod is shown connecting the two purlins, with nuts and washers at each end. The purlins are shown with bolts and washers connecting them to the steel beam.

PL 500x250x10
STOPPER PLATE

3x1/2 PL 500x250x8
STIFFENER PLATE

This diagram shows the elevation view of the crane runway beam and its connection to the column. The column is labeled 'C1 COLUMN'. The crane runway beam is shown with a total width of 500. The connection details include:

- 3ø22 HOLES** and **3M20 BOLTS** for the top flange connection.
- PL10** (10mm thick plate) for the top flange connection.
- THK = 10 STIFF PL.** (10mm thick stiff plate) for the bottom flange connection.
- CRANE RUNWAY BEAM** label.
- T.O. CRANE** (Top of Crane) indicator.
- 500** dimension for the total width of the crane runway beam.
- 250** dimension for the width of the column flange.
- 50 50 50 50** dimensions indicating the spacing of the bolts.

The drawing includes a plan view of the runway beam with the following details:

- Dimensions:** The beam is 20,000 units long. It has 500-unit overhangs at both ends. The main span is divided into four 6,000-unit segments by stiffeners at points B, C, D, and E.
- Stiffeners:** Labeled as "PL10 STIFFENER Ø1000".
- Supports:** Indicated by triangles at the ends of the beam.
- Labels:** Points A, B, C, D, and E are marked along the top of the beam.
- Scale:** 1:100.
- Section View:** A cross-section of the beam is shown at the right end, with a height of +4.370 and a label "T.O. CRANE".

$$\frac{1:10}{12}$$

D01	NOV.2023	IFA	R.BERLOUTE	M.PAKHARIAN	S.PARAMASZPOUR	**
D00	AUG.2023	IFC	R.BERLOUTE	M.PAKHARIAN	A.M.MOHSSENI	**
REV	DATE	P.O.I.S.	PREP	CHK	APP	AU

PROJECT NAME:	BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS COMPRESSOR STATION
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PROJECT NO.:	971020
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EPC CONTRACTOR:	EPD/EPC CONTRACTOR (GC):
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 HIRGAN
 RETROIRAN

 ENERGY
  TECHNOLOGY
  OIL & GAS
  PETROCHEMICAL
  PETROCHEMICAL DEVELOPMENT



DEVELOPMENT
COMPANY

HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES PEDCO COMPANY

COMPANIES	
DRAWING TITLE:	

DRAWING TITLE. STRUCTURAL DRAWING FOR FIRE WATER
PUMP SHELTER

TUMI SHEET				

SCALE	SIZE	DRAWING NO.	SHEET NO.	R

AS SHOWN	A1	BK-GCS-PEDCO-120-ST-DW-0066	5 OF 5	D
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NOTES

- 1) ALL ELEVATIONS AND COORDINATES ARE IN "m" AND DIMENSIONS ARE IN "mm" UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS AND ELEVATIONS SHALL BE CHECKED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
- 3) ACCORDING TO THE SPECIFICATION OF CONCRETE WORKS
"BK-GNR/-PEDCO-000-57-SP-0001"28 DAYS CHARACTERISTIC COMPRESSIVE STRENGTH OF MAIN CONCRETE IS 30 MPa(NOM. CYLINDRICAL SPECIMEN)
ACCORDING TO THE SPECIFICATION OF CONCRETE WORKS
"BK-GNR/-PEDCO-000-57-SP-0001"28 DAYS CHARACTERISTIC COMPRESSIVE STRENGTH OF LEAN CONCRETE IS 15 MPa(NOM. CYLINDRICAL SPECIMEN)
- 5) STRUCTURAL STEEL SHAPE & PLATES SHALL CONFORM TO S235JR WITH MINIMUM YIELD STRESS OF $F_y=2400$ kg/cm.²
- 6) ALL BOLTS ARE HIGH STRENGTH BOLTS GRADE 8.8 WITH MINIMUM TENSILE STRENGTH OF $F_u=800$ MPa.
- 7) ANCHOR BOLTS SHALL BE ASTM A307 GRADE C.
- 8) ALL WELDING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF STRUCTURAL WELDING CODE, AWS D1.1/D1.1M.
- 9) TYPE OF WELDING ELECTRODE SHALL BE E70 AND IN ACCORDANCE WITH SPECIFICATIONS FOR STRUCTURAL STEEL FABRICATION AND ERECTION.
- 10) FLANGES SHOULD BE CONTINUOUSLY WELDED TO THE WEB.

F.G.L.	: FINISH GROUND LEVEL		REINFORCED CONCRETE
T.O.G.	: TOP OF GROUT		LEAN CONCRETE
T.O.F.	: TOP OF FOUNDATION		
B.O.B.P.	: BOTTOM OF BASEPLATE		GROUND
T.O.B.	: TOP OF BEAM		
T.O.PED.	: TOP OF PEDESTAL		
C.O.ST.	: CENTER OF STRUT		
T.O.S.	: TOP OF STEEL		

DRG. No.

CALCULATION NOTE FOR FIRE WATER PUMP SHELTER	BK-GCS-PEDCO-120-ST-CN-0009
FOUNDATION DRAWING FOR FIRE WATER PUMP SHELTER	BK-GCS-PEDCO-120-ST-DW-0006
ARCHITECTURAL DRAWING FOR FIRE WATER PUMP SHELTER	BK-GCS-PEDCO-120-AR-DW-0006
STANDARD DRAWING FOR ANCHOR BOLTS	BK-GNRL-PEDCO-000-ST-DW-0002
GENERAL NOTES-STEEL STRUCTURES	BK-GNRL-PEDCO-000-ST-DW-0011
SPECIFICATION FOR ERECTION OF STEEL STRUCTURES	BK-GNRL-PEDCO-000-ST-SP-0005
SPECIFICATION FOR FABRICATION OF STEEL STRUCTURES	BK-GNRL-PEDCO-000-ST-SP-0003
SPECIFICATION FOR STEEL STRUCTURAL WORK	BK-GNRL-PEDCO-000-ST-SP-0008
UNIT PLOT PLAN DRAWING	BK-GCS-PEDCO-120-PL-PY-0001
GEOTECHNICAL INVESTIGATION REPORT FOR COMPRESSOR STATION	BK-GCS-PEDCO-120-GT-RT-0001
SPECIFICATION FOR GROUTING	BK-GNRL-PEDCO-000-ST-SP-0004
SPECIFICATION FOR PAINTING	BK-GNRL-PEDCO-000-PL-SP-0006
STANDARD DRAWING FOR FIREPROOFING	BK-GNRL-PEDCO-000-ST-DW-0001

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REV.	DESCRIPTION	BY	DATE	BY	DATE
		CHECKED		REV	APPR

اصل و کلیه نسخ این نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد.

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BINAK OILFIELD DEVELOPMENT
SURFACE FACILITIES
GAS COMPRESSOR STATION

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED				

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED									
APPROVED FOR CONSTRUCTION				BY:			DATE:		

BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
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