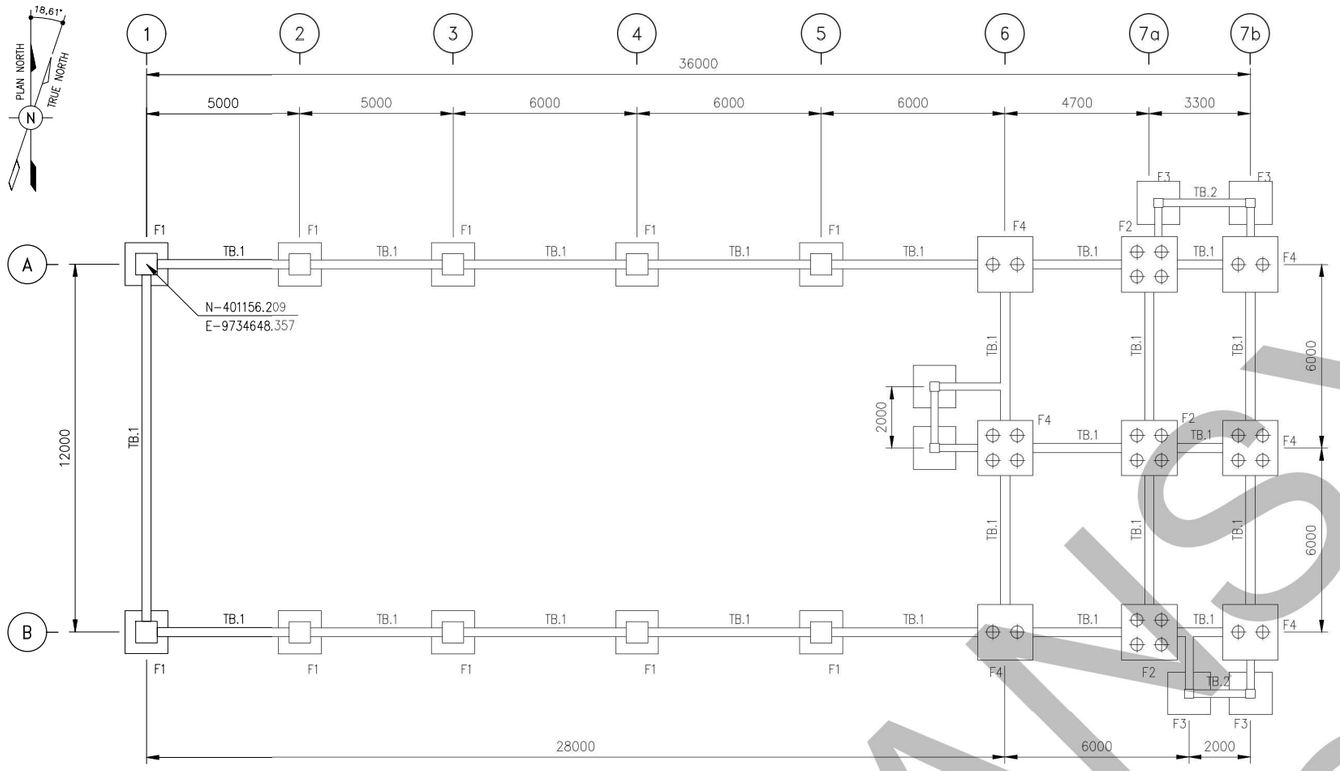
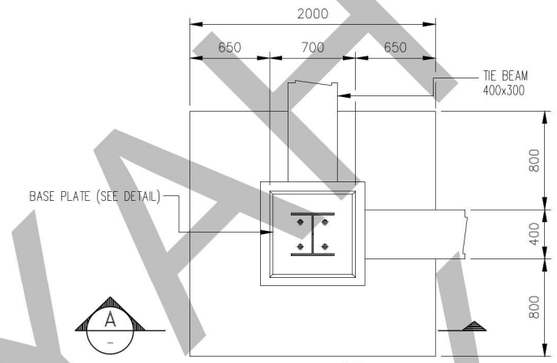


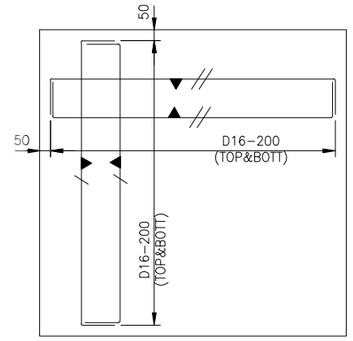
POWER HOUSE FOUNDATION PLAN

SCALE 1 : 200



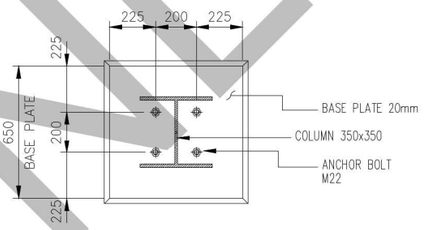
FOUNDATION TYPE (F1)

SCALE 1 : 50



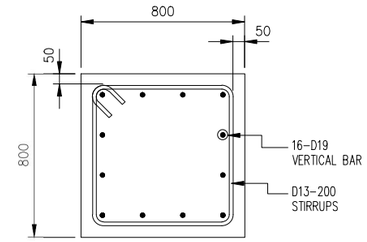
REBAR ARRANGEMENT

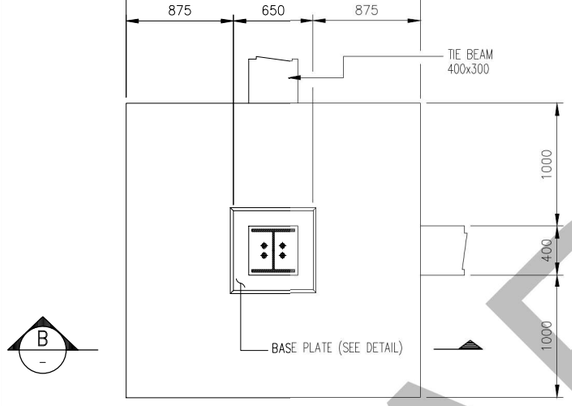
SCALE 1 : 40



BASE PLATE DETAIL

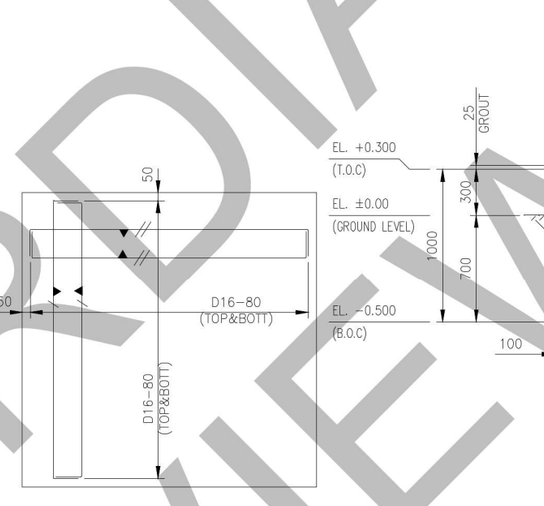
SCALE 1 : 30





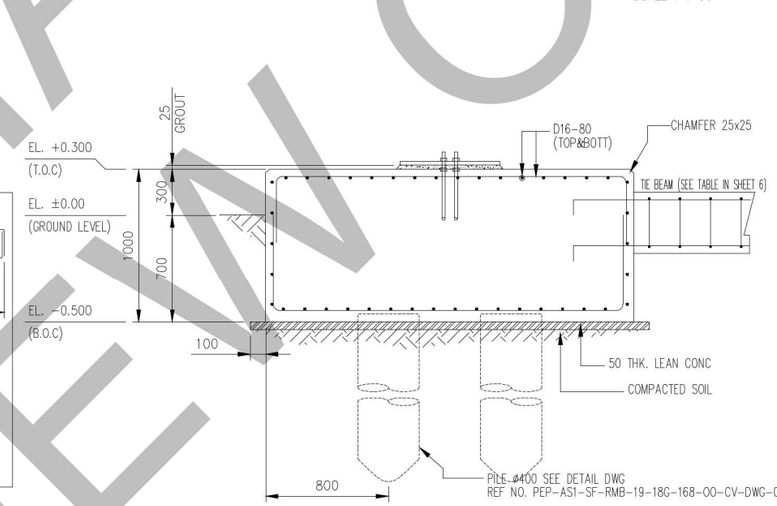
FOUNDATION TYPE (F2)

SCALE 1 : 50



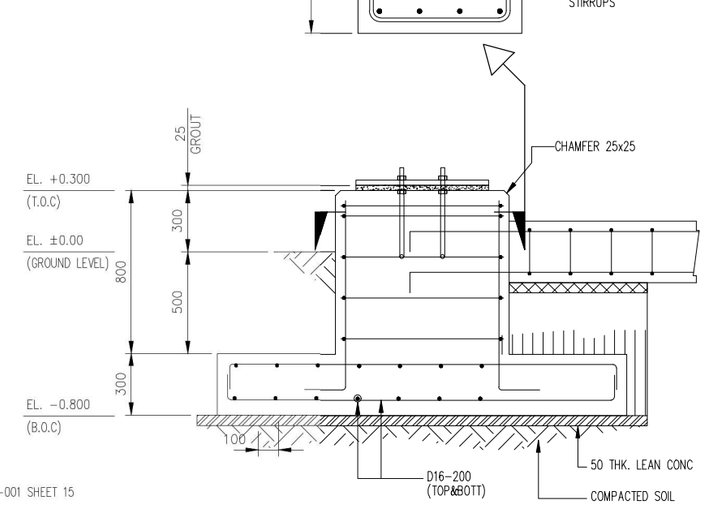
REBAR ARRANGEMENT

SCALE 1 : 50



SECTION B

SCALE 1:40



SECTION A

SCALE 1:30

GENERAL NOTES

1. ALL DIMENSION ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
2. ELEVATION OF SOIL GL. (±) 0.000 = M.S.L EL. (+) 17.000
3. COORDINATES AND ELEVATION ARE IN METERS UNLESS OTHERWISE SPECIFIED.
4. MATERIAL
   - STEEL STRUCTURE : ASTM A36, JIS G3101 SS400, fy = 248 MPa, fu = 413 MPa
   - STEEL PLATE : ASTM A36, JIS G3101 SS400, fy = 248 MPa, fu = 340 MPa
   - CONCRETE : fc' = 10 MPa (K-125) FOR LEVELING CONCRETE. fc' = 29 MPa (K-350) FOR FOUNDATION.
   - WELD : AWS D1.1 E70XX ELECTRODE
   - BOLT : ASTM A325M, JIS B1186 GRADE F8T
   - ANCHOR BOLT : ASTM A36, JIS G3101 SS400,
   - WIREMESH : fy = 490 MPa,

REFERENCE DOCUMENTS	DOCUMENT NO.	REV.	DATE	DESCRIPTION	DRAW	CHK'D	APPRV	SF ASSET 1	FIELD
PILING PLAN	-	0	-	ISSUED FOR BID					
BUILDING AND FOUNDATION PLAN	-	B	-	ISSUED FOR APPROVAL					
STANDARD DRAWING STEEL STRUCTURE & CONNECTIONS	-	A1	-	RE-ISSUED FOR REVIEW					
STANDARD DRAWING CONCRETE & REBARS	-	A	-	ISSUED FOR REVIEW	-	-	-		

CLIENT

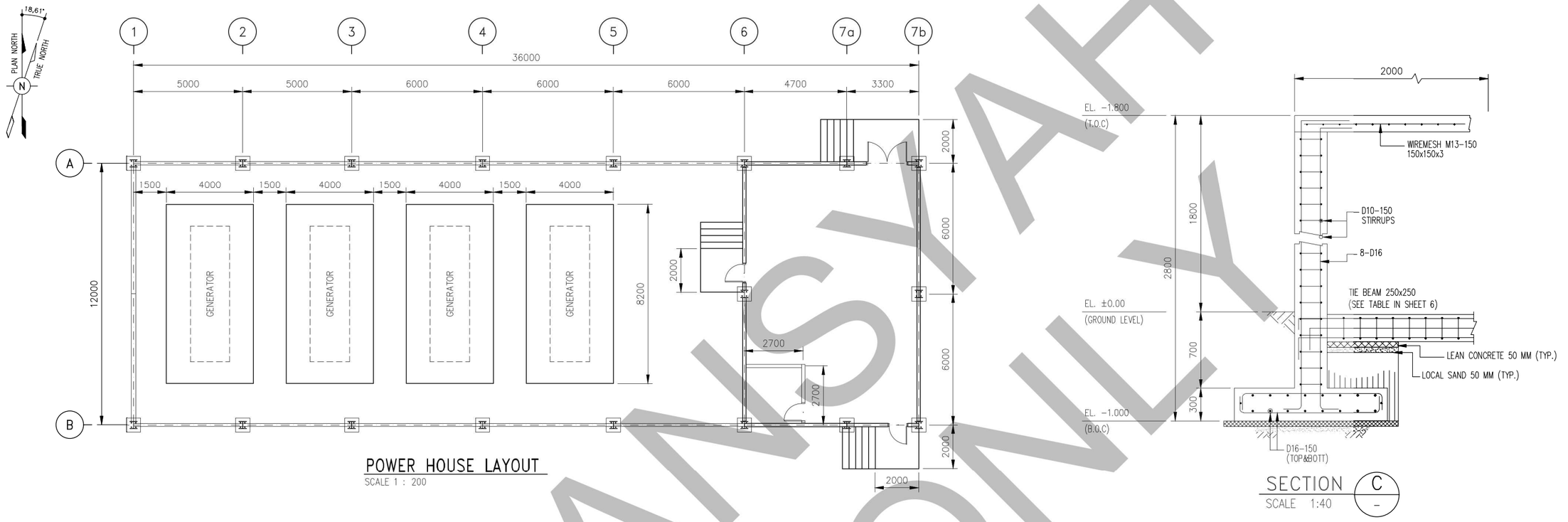
CONTRACTOR

PROJECT: FRONT END ENGINEERING DESIGN (FEED)
WTIP SPU BENTAYAN KAP. 78000 BWPD
PT. PERTAMINA EP ASSET 1 RAMBA FIELD

TITLE: STRUCTURES & FOUNDATION FOR POWER HOUSE

DRAWING No. –

SHEET 1 OF 7 | SCALE 1:100 | REV 0

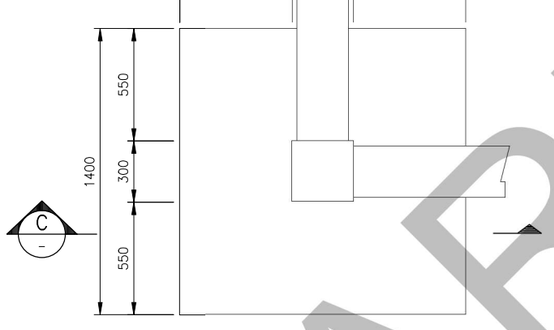


POWER HOUSE LAYOUT

SCALE 1 : 200

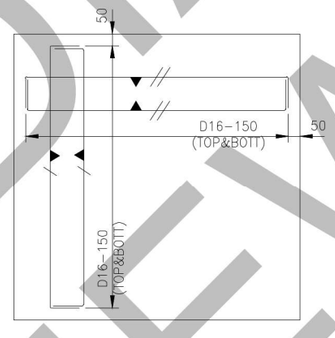
SECTION C

SCALE 1:40



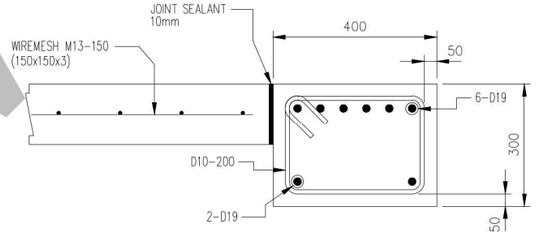
FOUNDATION TYPE (F3)

SCALE 1 : 30



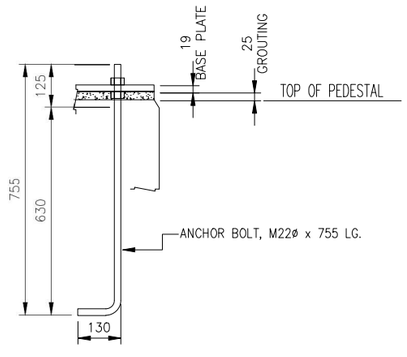
REBAR ARRANGEMENT

SCALE 1 : 30



TIE BEAM DETAIL

SCALE 1 : 15



TYPICAL ANCHOR BOLT M22

N.T.S

1. ALL DIMENSION ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
2. ELEVATION OF SOIL GL. (±) 0.000 = M.S.L EL. (+) 17.000
3. COORDINATES AND ELEVATION ARE IN METERS UNLESS OTHERWISE SPECIFIED.
4. MATERIAL
   - STEEL STRUCTURE : ASTM A36, JIS G3101 SS400, fy = 248 MPa, fu = 413 MPa
   - STEEL PLATE : ASTM A36, JIS G3101 SS400, fy = 248 MPa, fu = 340 MPa
   - CONCRETE : fc' = 10 MPa (K-125) FOR LEVELING CONCRETE. : fc' = 29 MPa (K-350) FOR FOUNDATION.
   - WELD : AWS D1.1 E70XX ELECTRODE
   - BOLT : ASTM A325M, JIS B1186 GRADE F8T
   - ANCHOR BOLT : ASTM A36, JIS G3101 SS400,
   - WIREMESH : fy = 490 MPa,

GENERAL NOTES

REFERENCE DOCUMENTS	DOCUMENT NO.	REV.	DATE	DESCRIPTION	DRAW	CHK'D	APPRV	SF ASSET 1	FIELD
PILING PLAN	-	0	-	ISSUED FOR BID	-	-	-		
BUILDING AND FOUNDATION PLAN	-	B	-	ISSUED FOR APPROVAL	-	-	-		
STANDARD DRAWING STEEL STRUCTURE & CONNECTIONS	-	A1	-	RE-ISSUED FOR REVIEW	-	-	-		
STANDARD DRAWING CONCRETE & REBARS	-	A	-	ISSUED FOR REVIEW	-	-	-		

CLIENT

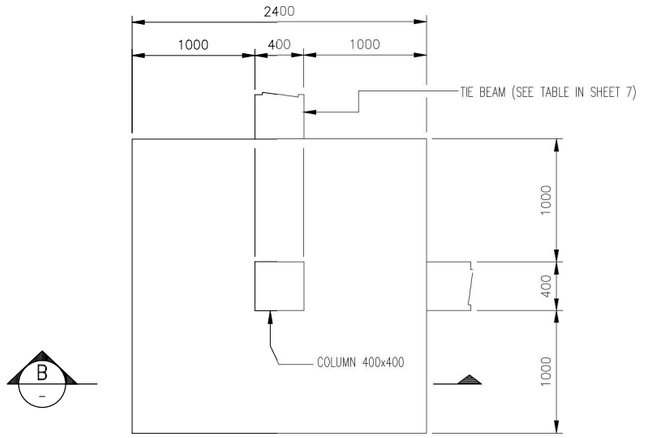
CONTRACTOR

PROJECT: FRONT END ENGINEERING DESIGN (FEED)
WTIP SPU BENTAYAN KAP. 78000 BWPD
PT. PERTAMINA EP ASSET 1 RAMBA FIELD

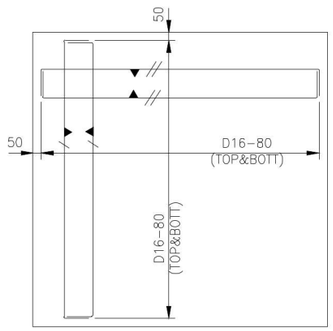
TITLE: STRUCTURES & FOUNDATION FOR POWER HOUSE

DRAWING No. –

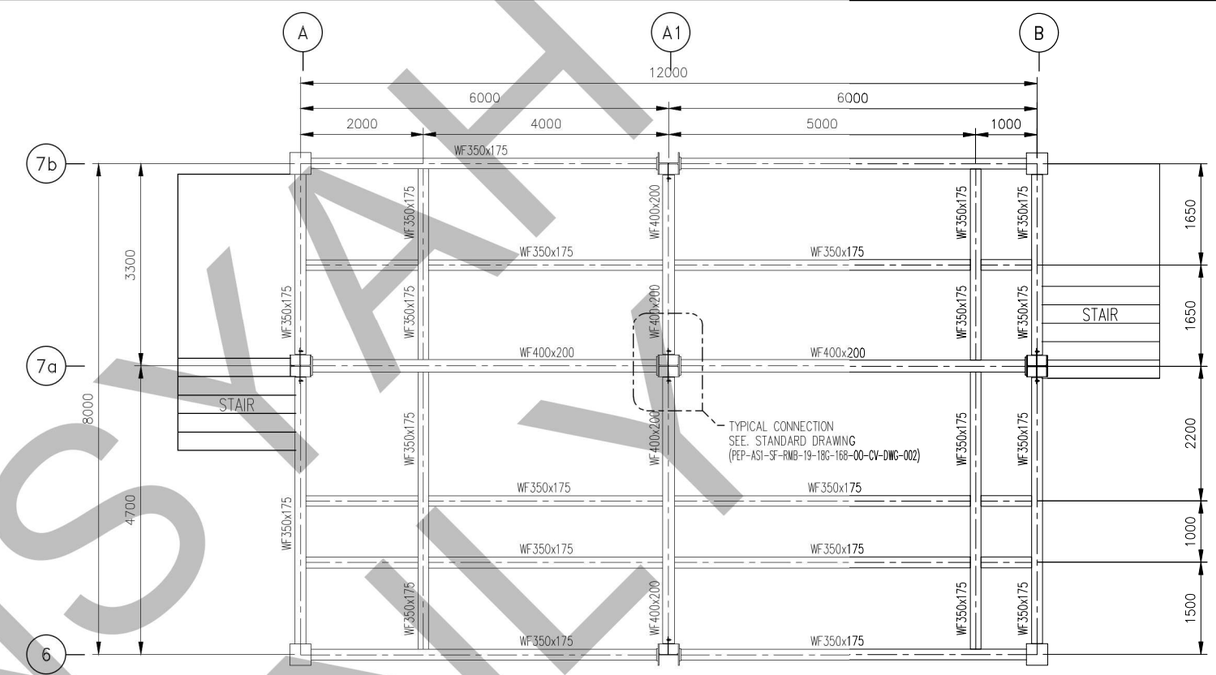
SHEET 2 OF 7 | SCALE 1:100 | REV 0



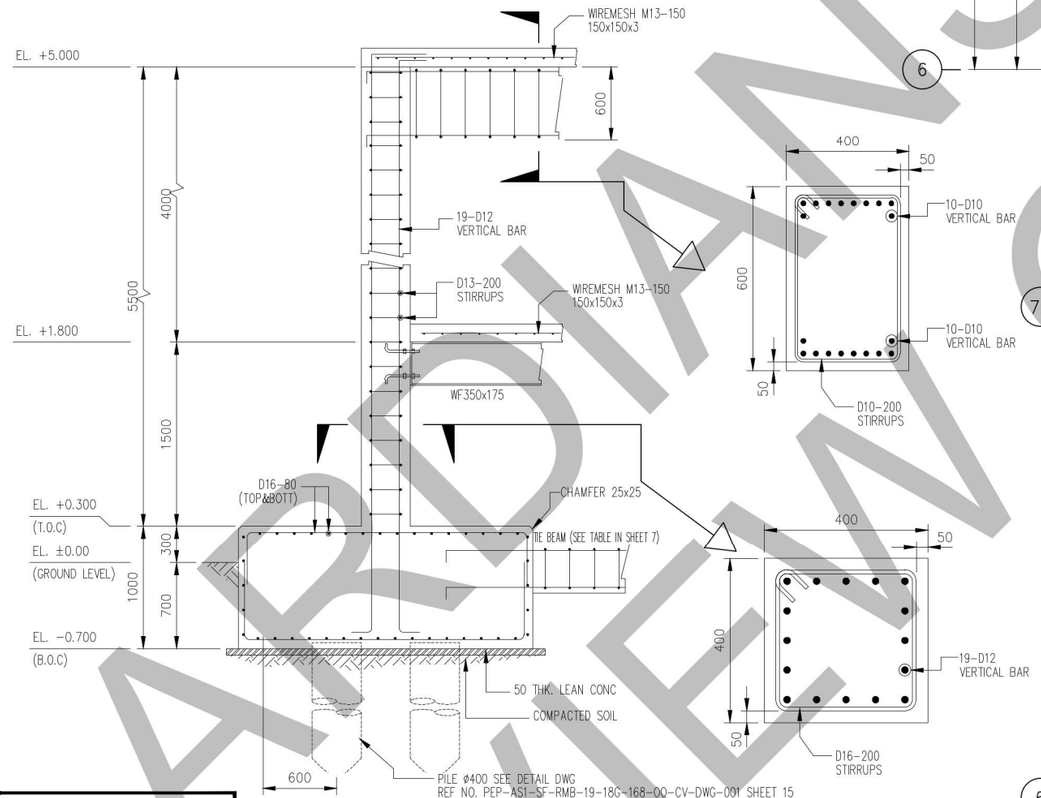
FOUNDATION TYPE (F4)
SCALE 1 : 50



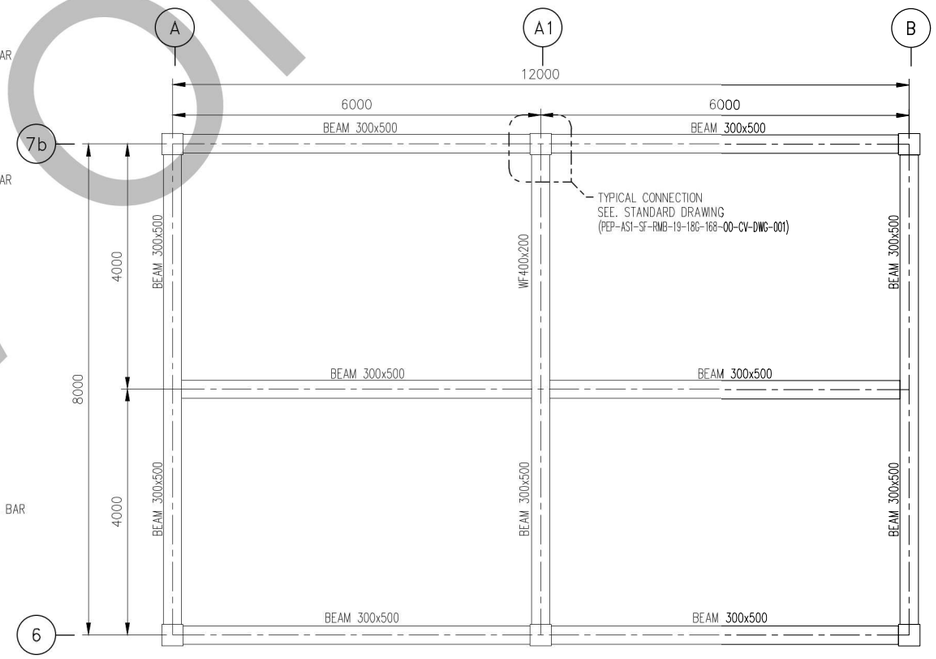
REBAR ARRANGEMENT
SCALE 1 : 40



VIEW ELEVATION +1.800
SCALE 1 : 100



SECTION D
SCALE 1:40



VIEW ELEVATION +5.800
SCALE 1 : 100

1. ALL DIMENSION ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
2. ELEVATION OF SOIL GL. (±) 0.000 = M.S.L EL. (+) 17.000
3. COORDINATES AND ELEVATION ARE IN METERS UNLESS OTHERWISE SPECIFIED.
4. MATERIAL
   - STEEL STRUCTURE : ASTM A36, JIS G3101 SS400, fy = 248 MPa, fu = 413 MPa
   - STEEL PLATE : ASTM A36, JIS G3101 SS400, fy = 248 MPa, fu = 340 MPa
   - CONCRETE : fc' = 10 MPa (K–125) FOR LEVELING CONCRETE. fc' = 29 MPa (K–350) FOR FOUNDATION.
   - WELD : AWS D1.1 E70XX ELECTRODE
   - BOLT : ASTM A325M, JIS B1186 GRADE F8T
   - ANCHOR BOLT : ASTM A36, JIS G3101 SS400,
   - WIREMESH : fy = 490 MPa,

GENERAL NOTES

REFERENCE DOCUMENTS	DOCUMENT NO.	REV.	DATE	DESCRIPTION	DRAW	CHK'D	APPRV	SF ASSET 1	FIELD
PILING PLAN	–	0	–	ISSUED FOR BID	–	–	–		
BUILDING AND FOUNDATION PLAN	–	B	–	ISSUED FOR APPROVAL	–	–	–		
STANDARD DRAWING STEEL STRUCTURE & CONNECTIONS	–	A1	–	RE–ISSUED FOR REVIEW	–	–	–		
STANDARD DRAWING CONCRETE & REBARS	–	A	–	ISSUED FOR REVIEW	–	–	–		

CLIENT

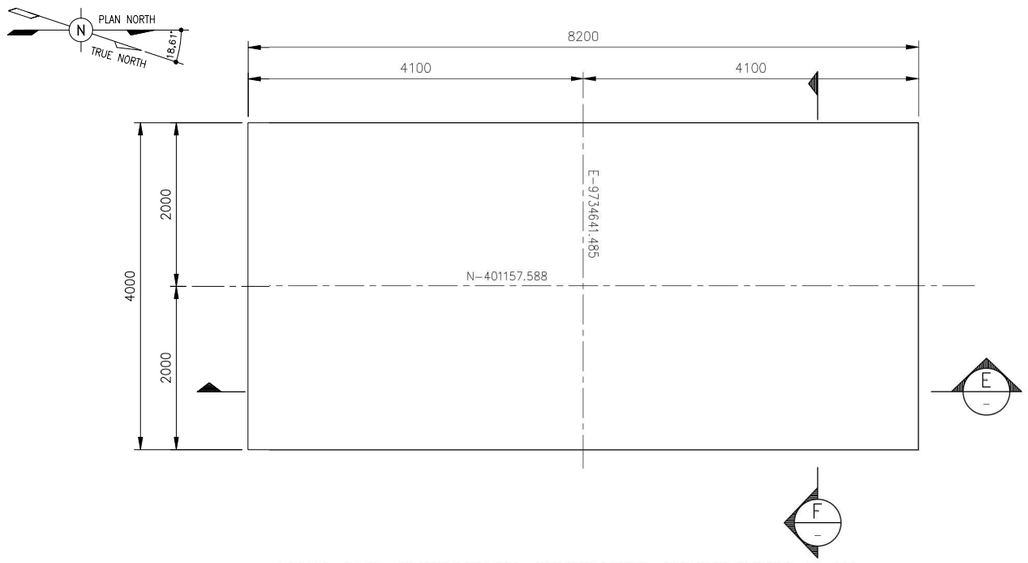
CONTRACTOR

PROJECT FRONT END ENGINEERING DESIGN (FEED)
WTIP SPU BENTAYAN KAP. 78000 BWPD
PT. PERTAMINA EP ASSET 1 RAMBA FIELD

TITLE
STRUCTURES & FOUNDATION FOR POWER HOUSE

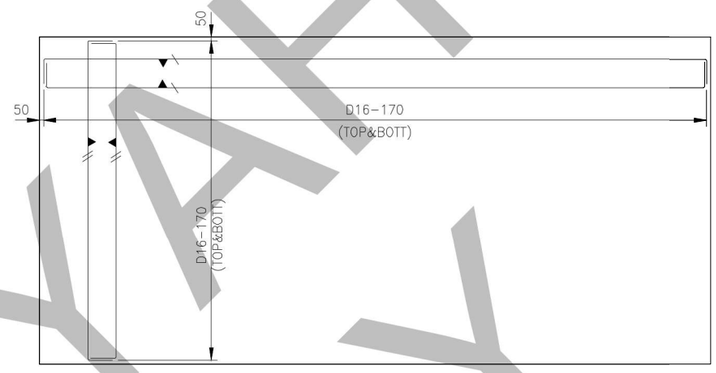
DRAWING No.
–

SHEET 3 OF 7 | SCALE 1:100 | REV 0



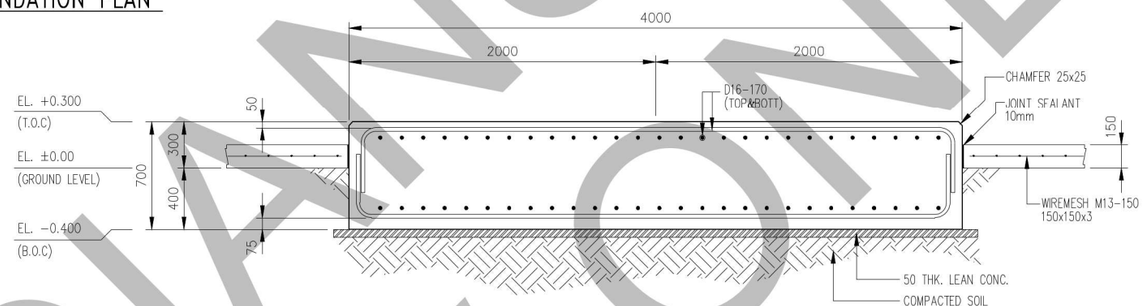
MAIN AND EMERGENCY GENERATOR FOUNDATION PLAN

SCALE 1 : 75



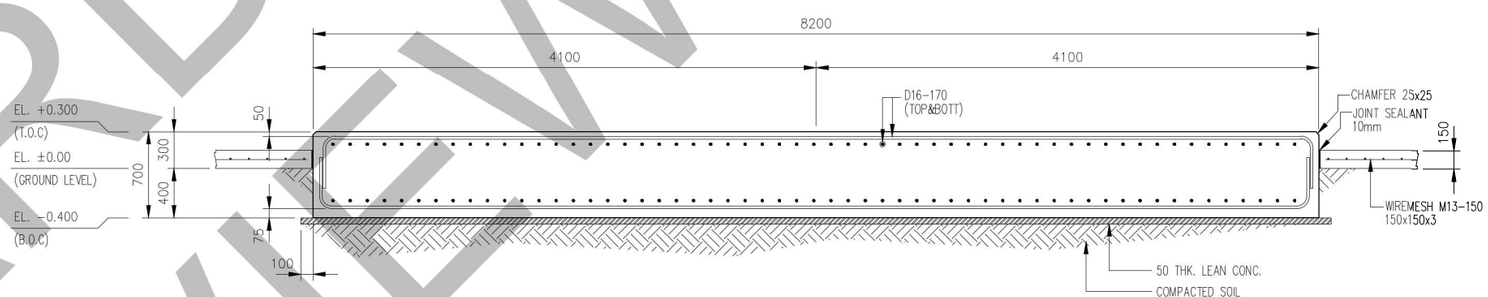
REBAR ARRANGEMENT

SCALE 1 : 75



SECTION F

SCALE 1:50



SECTION E

SCALE 1:50

1. ALL DIMENSION ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
2. ELEVATION OF SOIL GL. (±) 0.000 = M.S.L EL. (+) 17.000
3. COORDINATES AND ELEVATION ARE IN METERS UNLESS OTHERWISE SPECIFIED.
   - STEEL PLATE : ASTM A36, JIS G3101 SS400, fy = 250 MPa, fu = 400 MPa
   - CONCRETE : fc' = 10 MPa (K-125) FOR LEVELING CONCRETE.
     : fc' = 28 MPa (K-350) FOR FOUNDATION.
   - ANCHOR BOLT : ASTM A36, JIS G3101 SS400,
   - REINFORCING STEEL : >D13 = fy 400 Mpa, BJTD 40, <D13 = fy 240 Mpa, BJTP 24
   - GROUTING & FILLER : (ASTM C348-02) 35 Mpa.

GENERAL NOTES

REFERENCE DOCUMENTS	DOCUMENT NO.	REV.	DATE	DESCRIPTION	DRAW	CHK'D	APPRV	SF ASSET 1	FIELD
PILING PLAN	-	0	-	ISSUED FOR BID	-	-	-		
BUILDING AND FOUNDATION PLAN	-	B	-	ISSUED FOR APPROVAL	-	-	-		
STANDARD DRAWING STEEL STRUCTURE & CONNECTIONS	-	A1	-	RE-ISSUED FOR REVIEW	-	-	-		
STANDARD DRAWING CONCRETE & REBARS	-	A	-	ISSUED FOR REVIEW	-	-	-		

CLIENT

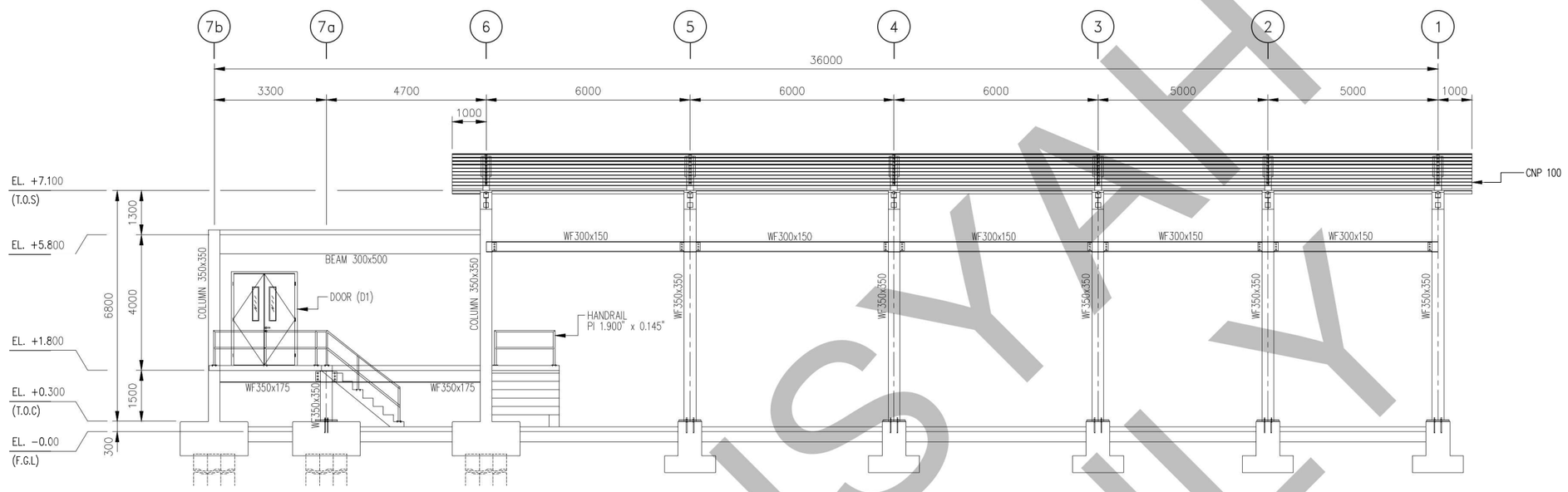
CONTRACTOR

PROJECT: FRONT END ENGINEERING DESIGN (FEED)
WTIP SPU BENTAYAN KAP. 78000 BWPD
PT. PERTAMINA EP ASSET 1 RAMBA FIELD

TITLE: STRUCTURES & FOUNDATION FOR POWER HOUSE

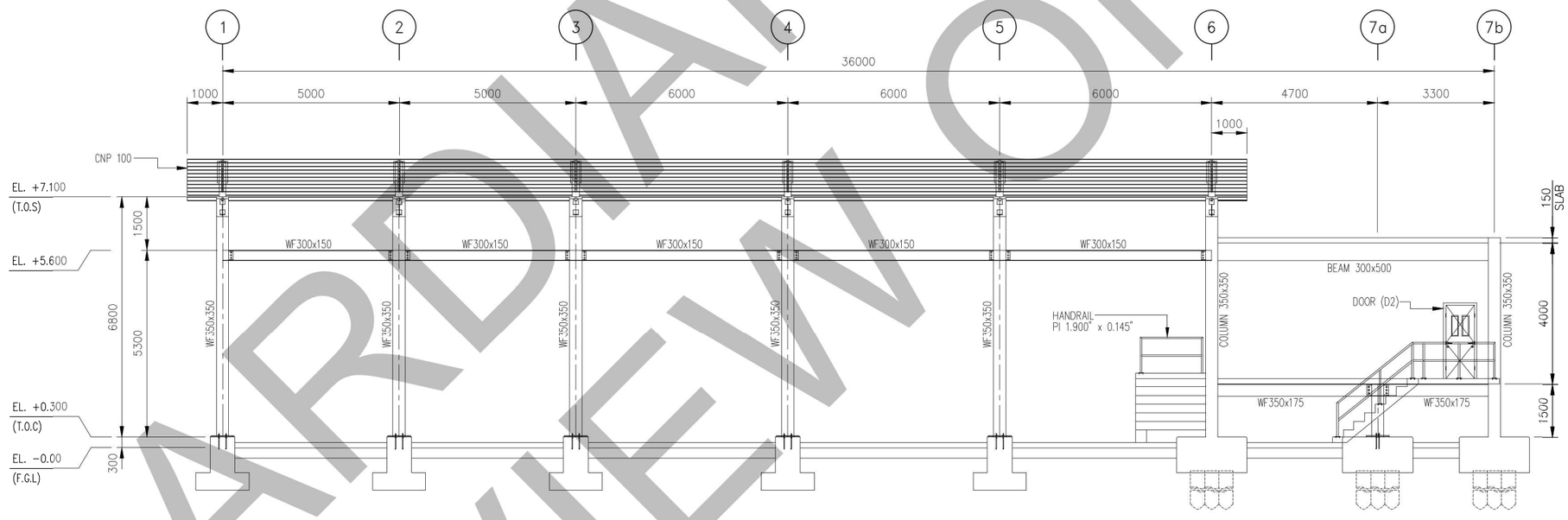
DRAWING No. -

SHEET 4 OF 7 | SCALE 1:100 | REV 0



VIEW ELEVATION A

SCALE 1 : 150



VIEW ELEVATION B

SCALE 1 : 150

1. ALL DIMENSION ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
2. ELEVATION OF SOIL GL. (±) 0.000 = M.S.L EL. (+) 17.000
3. COORDINATES AND ELEVATION ARE IN METERS UNLESS OTHERWISE SPECIFIED.
4. MATERIAL
   - STEEL STRUCTURE : ASTM A36, JIS G3101 SS400, fy = 248 MPa, fu = 413 MPa
   - STEEL PLATE : ASTM A36, JIS G3101 SS400, fy = 248 MPa, fu = 340 MPa
   - CONCRETE : fc' = 10 MPa (K-125) FOR LEVELING CONCRETE. : fc' = 29 MPa (K-350) FOR FOUNDATION.
   - WELD : AWS D1.1 E70XX ELECTRODE
   - BOLT : ASTM A325M, JIS B1186 GRADE F8T
   - ANCHOR BOLT : ASTM A36, JIS G3101 SS400,
   - WIREMESH : fy = 490 MPa,

GENERAL NOTES

REFERENCE DOCUMENTS	DOCUMENT NO.	REV.	DATE	DESCRIPTION	DRAW	CHK'D	APPRV	SF ASSET 1	FIELD
PILING PLAN	–	0	–	ISSUED FOR BID	–	–	–		
BUILDING AND FOUNDATION PLAN	–	B	–	ISSUED FOR APPROVAL	–	–	–		
STANDARD DRAWING STEEL STRUCTURE & CONNECTIONS	–	A1	–	RE-ISSUED FOR REVIEW	–	–	–		
STANDARD DRAWING CONCRETE & REBARS	–	A	–	ISSUED FOR REVIEW	–	–	–		

CLIENT

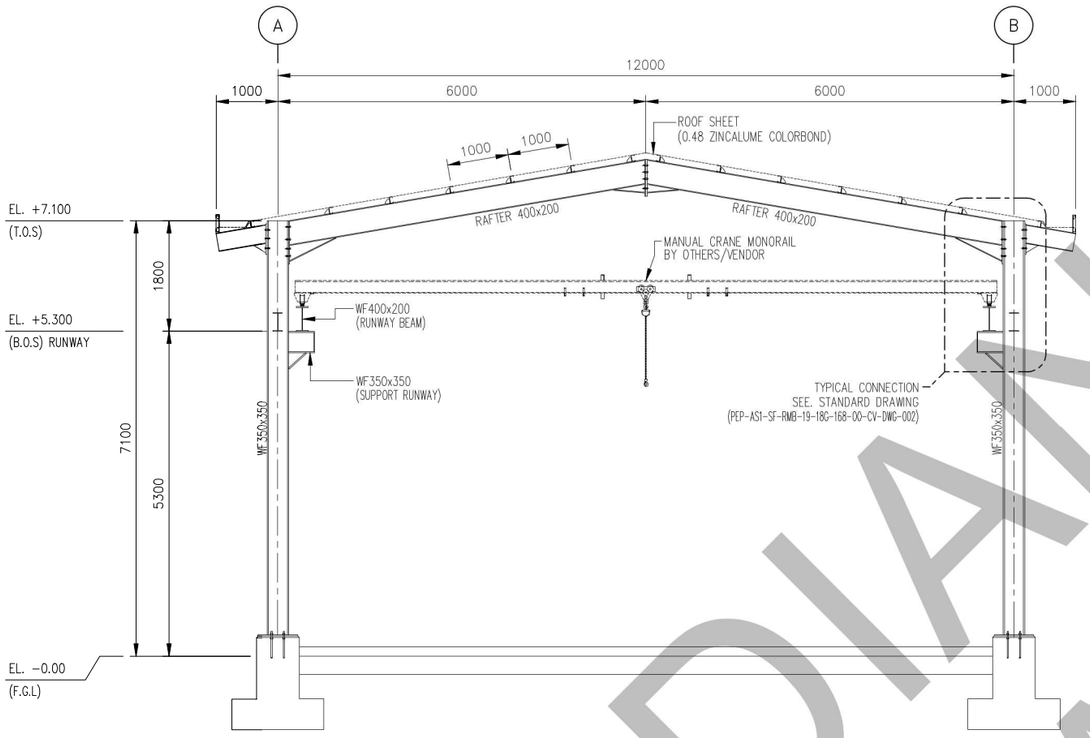
CONTRACTOR

PROJECT FRONT END ENGINEERING DESIGN (FEED)
WTIP SPU BENTAYAN KAP. 78000 BWPD
PT. PERTAMINA EP ASSET 1 RAMBA FIELD

TITLE
STRUCTURES & FOUNDATION FOR POWER HOUSE

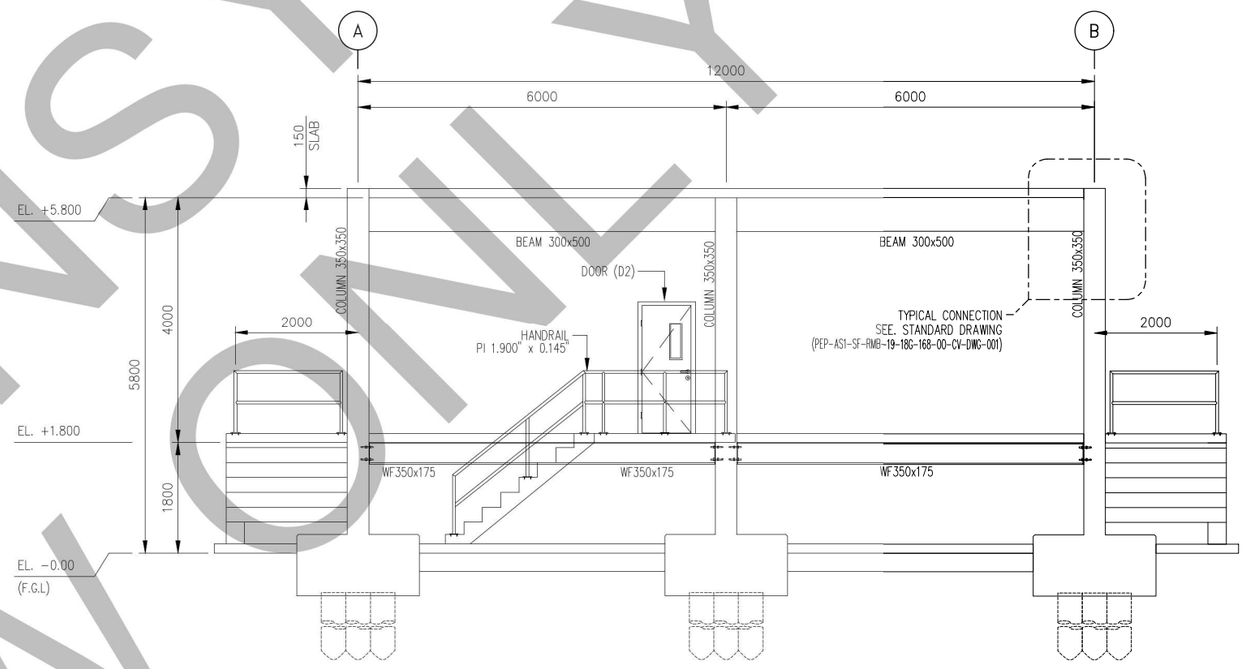
DRAWING No.
–

SHEET 5 OF 7 | SCALE 1:100 | REV 0



VIEW ELEVATION 1

SCALE 1 : 100



VIEW ELEVATION 6

SCALE 1 : 100

1. ALL DIMENSION ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
2. ELEVATION OF SOIL GL. (±) 0.000 = M.S.L EL. (+) 17.000
3. COORDINATES AND ELEVATION ARE IN METERS UNLESS OTHERWISE SPECIFIED.
4. MATERIAL
   - STEEL STRUCTURE : ASTM A36, JIS G3101 SS400, fy = 248 MPa, fu = 413 MPa
   - STEEL PLATE : ASTM A36, JIS G3101 SS400, fy = 248 MPa, fu = 340 MPa
   - CONCRETE : fc' = 10 MPa (K-125) FOR LEVELING CONCRETE. : fc' = 29 MPa (K-350) FOR FOUNDATION.
   - WELD : AWS D1.1 E70XX ELECTRODE
   - BOLT : ASTM A325M, JIS B1186 GRADE F8T
   - ANCHOR BOLT : ASTM A36, JIS G3101 SS400,
   - WIREMESH : fy = 490 MPa,

GENERAL NOTES

REFERENCE DOCUMENTS	DOCUMENT NO.	REV.	DATE	DESCRIPTION	DRAW	CHK'D	APPRV	SF ASSET 1	FIELD
PILING PLAN	–	0	–	ISSUED FOR BID	–	–	–		
BUILDING AND FOUNDATION PLAN	–	B	–	ISSUED FOR APPROVAL	–	–	–		
STANDARD DRAWING STEEL STRUCTURE & CONNECTIONS	–	A1	–	RE-ISSUED FOR REVIEW	–	–	–		
STANDARD DRAWING CONCRETE & REBARS	–	A	–	ISSUED FOR REVIEW	–	–	–		

CLIENT

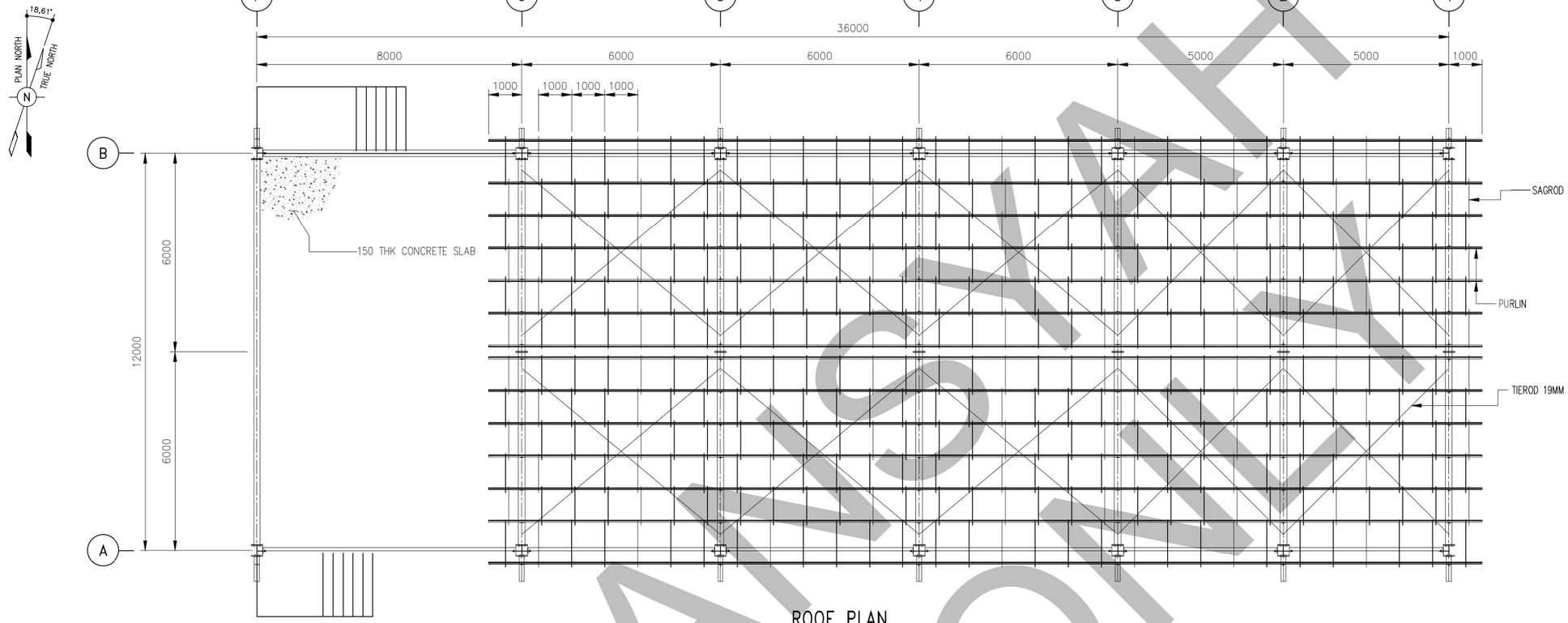
CONTRACTOR

PROJECT FRONT END ENGINEERING DESIGN (FEED)
WTIP SPU BENTAYAN KAP. 78000 BWPD
PT. PERTAMINA EP ASSET 1 RAMBA FIELD

TITLE
STRUCTURES & FOUNDATION FOR POWER HOUSE

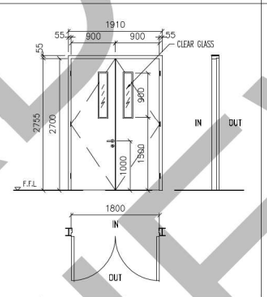
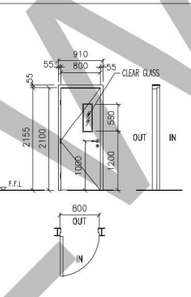
DRAWING No.
–

SHEET 6 OF 7 | SCALE 1:100 | REV 0

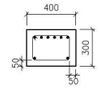


ROOF PLAN
SCALE 1 : 150

DOOR SCHEDULE

MARKS	D1	D2
TYPE	DOUBLE SWING DOOR	SINGLE SWING DOOR
INSTALLATION ROOM	– INSTRUMENT EQUIPMENT ROOM – ELECTRIC PANEL ROOM	– INSTRUMENT EQUIPMENT ROOM – ELECTRIC PANEL ROOM – EMERGENCY DOOR – BATTERY ROOM
QUANTITY	1 UNIT	2 UNIT
SHAPE & TYPE		
BASE MATERIAL & FINISH	FRAME = STEEL 1.6mm THK. (W/ PAINT FINISH) LEAF/BLADE = STEEL 1.6mm THK. (W/ PAINT FINISH) LEAF THK. = 50 mm THK.	FRAME = STEEL 1.6mm THK. (W/ PAINT FINISH) LEAF/BLADE = STEEL 1.6mm THK. (W/ PAINT FINISH) LEAF THK. = 50 mm THK.
GLASS	6 mm THK. TEMPERED SAFETY CLEAR GLASS	6 mm THK. TEMPERED SAFETY CLEAR GLASS
HARD WARE	6 = HINGES PUSH PULL 2 = SET PUSH HANDLE & LOCK 2 = SET DOOR CLOSER 1 = SET FLUSH BOLT	3 = HINGES PUSH PULL 1 = SET PUSH HANDLE & LOCK 1 = SET DOOR CLOSER
REMARK	ALL HARDWARE SHALL BE STAINLESS STEEL	

GRADE BEAM SCHEDULE

MARK	TB.1		TB.2	
DIMENSION	400 x 300		250 x 250	
ELEVATION	EL. (+) 0.000		EL. (+) 0.000	
LOCATION	BOTH END	MIDDLE	BOTH END	MIDDLE
SECTION				
TOP BAR	6 D19	6 D19	3 D16	3 D16
BOTTOM BAR	2 D19	2 D19	2 D16	2 D16
STIRRUPS	D10 @ 200	D10 @ 200	D10 @ 200	D10 @ 200

1. ALL DIMENSION ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
2. ELEVATION OF SOIL GL. (±) 0.000 = M.S.L EL. (+) 17.000
3. COORDINATES AND ELEVATION ARE IN METERS UNLESS OTHERWISE SPECIFIED.
4. MATERIAL
   - STEEL STRUCTURE : ASTM A36, JIS G3101 SS400, fy = 248 MPa, fu = 413 MPa
   - STEEL PLATE : ASTM A36, JIS G3101 SS400, fy = 248 MPa, fu = 340 MPa
   - CONCRETE : fc' = 10 MPa (K-125) FOR LEVELING CONCRETE. : fc' = 29 MPa (K-350) FOR FOUNDATION.
   - WELD : AWS D1.1 E70XX ELECTRODE
   - BOLT : ASTM A325M, JIS B1186 GRADE F8T
   - ANCHOR BOLT : ASTM A36, JIS G3101 SS400,
   - WIREMESH : fy = 490 MPa,

GENERAL NOTES

REFERENCE DOCUMENTS	DOCUMENT NO.	REV.	DATE	DESCRIPTION	DRAW	CHK'D	APPRV	SF ASSET 1	FIELD
PILING PLAN	–	0	–	ISSUED FOR BID	–	–/–	–		
BUILDING AND FOUNDATION PLAN	–	B	–	ISSUED FOR APPROVAL	–	–/–	–		
STANDARD DRAWING STEEL STRUCTURE & CONNECTIONS	–	A1	–	RE-ISSUED FOR REVIEW	–	–/–	–		
STANDARD DRAWING CONCRETE & REBARS	–	A	–	ISSUED FOR REVIEW	–	–/–	–		

CLIENT

CONTRACTOR

PROJECT FRONT END ENGINEERING DESIGN (FEED)
WTIP SPU BENTAYAN KAP. 78000 BWPD
PT. PERTAMINA EP ASSET 1 RAMBA FIELD

TITLE
STRUCTURES & FOUNDATION FOR POWER HOUSE

DRAWING No.
–

SHEET 7 OF 7 | SCALE 1:100 | REV 0