

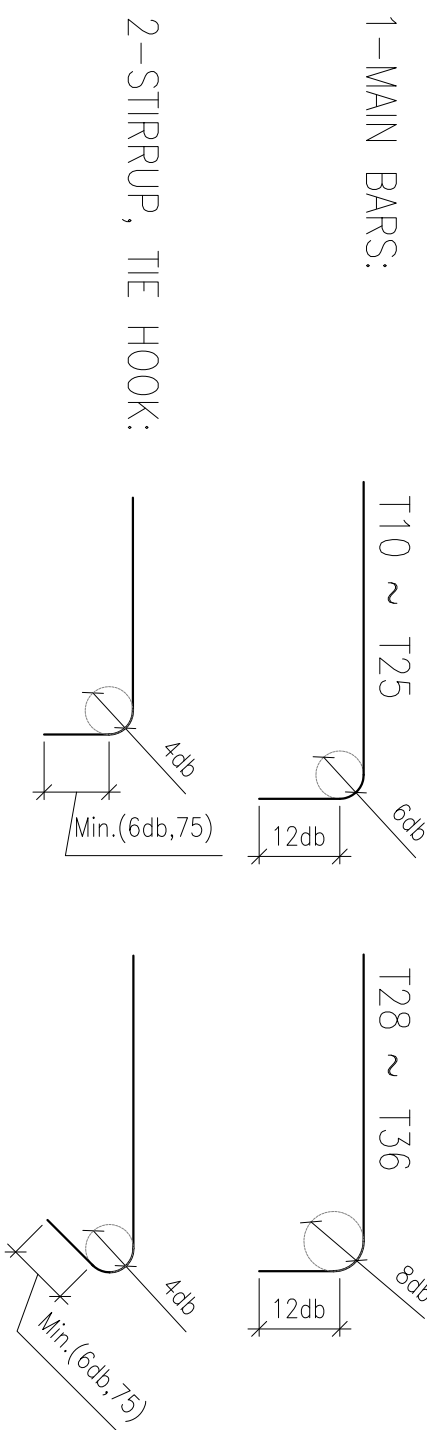
A –CONCRETE AND REINFORCED CONCRETE :

- A-1 – LEAN CONCRETE SHALL HAVE 150 kg OF CEMENT PER CUBIC METER OF CONCRETE .
- A-2 – REINFORCED CONCRETE SHALL DEVELOP SPECIFIED COMPRESSIVE STRENGTH OF  $f'_c = 300 \text{ kg/cm}^2$  (ON CYLINDER SAMPLES 150 DIA x 300 HEIGHT)
- A-3 – PORTLAND CEMENT, TYPE (II) SHALL BE USED FOR CONCRETE.
- A-4 – ALL CONCRETE WORKS SHALL BE CURED FOR AT LEAST 7 DAYS , UNLESS OTHERWISE NOTED ON DWGS.
- A-5 – ALL REINFORCED CONCRETE SHALL BE VIBRATED WHILE PLACING, TO AVOID SEGREGATION OF THE MIXTURE .
- A-6 – MINIMUM 350 kg. CEMENT PER M3 CONCRETE SHOULD BE APPLIED FOR STRUCTURE.
- A-7 – MINIMUM 400 kg. CEMENT PER M3 CONCRETE SHOULD BE APPLIED FOR PILES.
- A-8 – MAXIMUM RATIO OF WATER PER CEMENT (W/C) IS 0.45 .

B – REINFORCING BARS :

- B-1 – ALL REINFORCING BARS MARKED (  $\phi$  ) SHALL BE TYPE 'AII, (PLAIN ROUND MILD STEEL BARS) WITH A MINIMUM YIELD STRENGTH OF  $3000 \text{ kg/cm}^2$  .
- B-2 – ALL REINFORCING BARS MARKED ( T ) SHALL BE TYPE 'AII, (DEFORMED BAR) WITH A MINIMUM YIELD STRENGTH OF  $4000 \text{ kg/cm}^2$  .
- B-3 – REINFORCING BARS MUST BE FREE FROM DENTS , RUST, OIL AND DIRT BEFORE PLACEMENT .
- B-4 – ALL BARS SHALL BE BENT COLD , UNLESS OTHERWISE SPECIFIED ON DRAWINGS .
- B-5 – ALL OVERLAPS MUST BE MIN OF 50 TIMES THE BAR DIAMETER. (U.O.N.)
- B-6 – REINFORCEMENT ,DUCTS AND PIPES SHALL BE ACCURATELY PLACED AND SUPPORTED BEFORE CONCRETE IS PLACED .
- B-7 – TO AVOID INTERFERENCE WITH OPENINGS , PIPES AND ANCHOR BOLTS AND....., SPACING OF REINFORCEMENTS CAN BE ALTERED BY CLIENT'S SUPERVISOR APPROVAL.
- B-8 – UNLESS OTHERWISE NOTED, THE FOLLOWING COVER SHALL BE PROVIDED FOR REINFORCEMENT OF CAST IN PLACE CONCRETE (NON-PRESTRESSED):

- B-8-1– FOUNDATION & PILES.....75 mm.
- B-8-2– PEDESTALS, WALLS, SLABS, COLUMNS AND BEAMS.....50 mm.
- B-9– STANDARD OF HOOK, STIRRUP, TIE HOOK AND MINIMUM BEND DIAMETER SHALL BE AS BELOW FIGURE



C – CONSTRUCTION NOTES :

- C-1 – ALL DIMENSIONS ARE IN MILLIMETER. (U.O.N.) AND TOTAL LENGTH OF REINFORCING BARS ARE IN METER .
- C-2 – CONTRACTOR HAS FULL RESPONSIBILITY IN CHECKING ALL DIMENSIONS AND QUANTITIES IN CONJUNCTION WITH OTHER DRAWINGS , SUCH AS PIPING , MECHANICAL , ELECTRICAL , SANITARY AND STRUCTURAL DETAILS PRIOR TO CONSTRUCTION .
- C-3 – NO CONCRETE SHALL BE POURED PRIOR TO PIPING AND ELECTRICAL SUPERVISOR'S APPROVAL.
- C-4 – PUBLICATION NO.55 OR IRANIAN MANAGEMENT AND PLANING ORGANIZATION "THE GENERAL TECHNICAL SPECIFICATION FOR CONSTRUCTION" MUST BE CONSIDERED FOR CONSTRUCTION.
- C-5 – FINISHED FLOOR LEVEL ( $\pm 0.00$ ) IS EQUAL +1698.00 A.S.L
- C-6 – AFTER ERECTION OF THE STEEL STRUCTURE, CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL CLEAN UP AND FIELD TOUCH UP OF ANY SHOP APPLIED COATING. THE TOUCH UP FIELD COAT SHALL CONSIST OF THE SAME COATING USED FOR SHOP APPLIED COAT.

- C-7 – ARRANGEMENT OF ANCHOR BOLTS ON THE FOUNDATION SHALL BE AS BUILT AND CHECKED WITH BASE PLATE DRAWING BY FABRICATOR BEFORE PREPARING BASE PLATE SHOP DRAWINGS.

D – SOIL CONDITION :

- D-1 – DESIGN OF FOUNDATION IS ACCORDING TO SOIL & GEOTECHNICAL CONSULTANT REPORT
- D-2 – FOUNDATION SHALL BE PLACED ON THE COMPACTION SOIL (MIN. 95% COMPACTION ACCORDING TO MODIFIED AASHTO TEST) OR MASS CONCRETE.
- D-3 – ALL FILL AND BACKFILL PLACED IN LAYERS NOT EXCEEDING 20 Cm. SHALL BE COMPACTED TO A DRY DENSITY OF AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY OR FILL WITH RUBBLE CONCRETE.

E – ABBREVIATIONS :

- E-1 – T.O.F. = TOP OF FOUNDATION
- E-2 – B.O.F. = BOTTOM OF FOUNDATION
- E-3 – DWG. = DRAWING
- E-4 – T.O.PILE = TOP OF PILE
- E-5 – T.O.PED. = TOP OF PEDESTAL
- E-6 – F.G.L. = FINISHED GROUND LEVEL
- E-7 – T.O.C. = TOP OF CONCRETE
- E-8 – T.O.S. = TOP OF SLAB
- E-9 – C.O.P. = CENTER OF PIPE

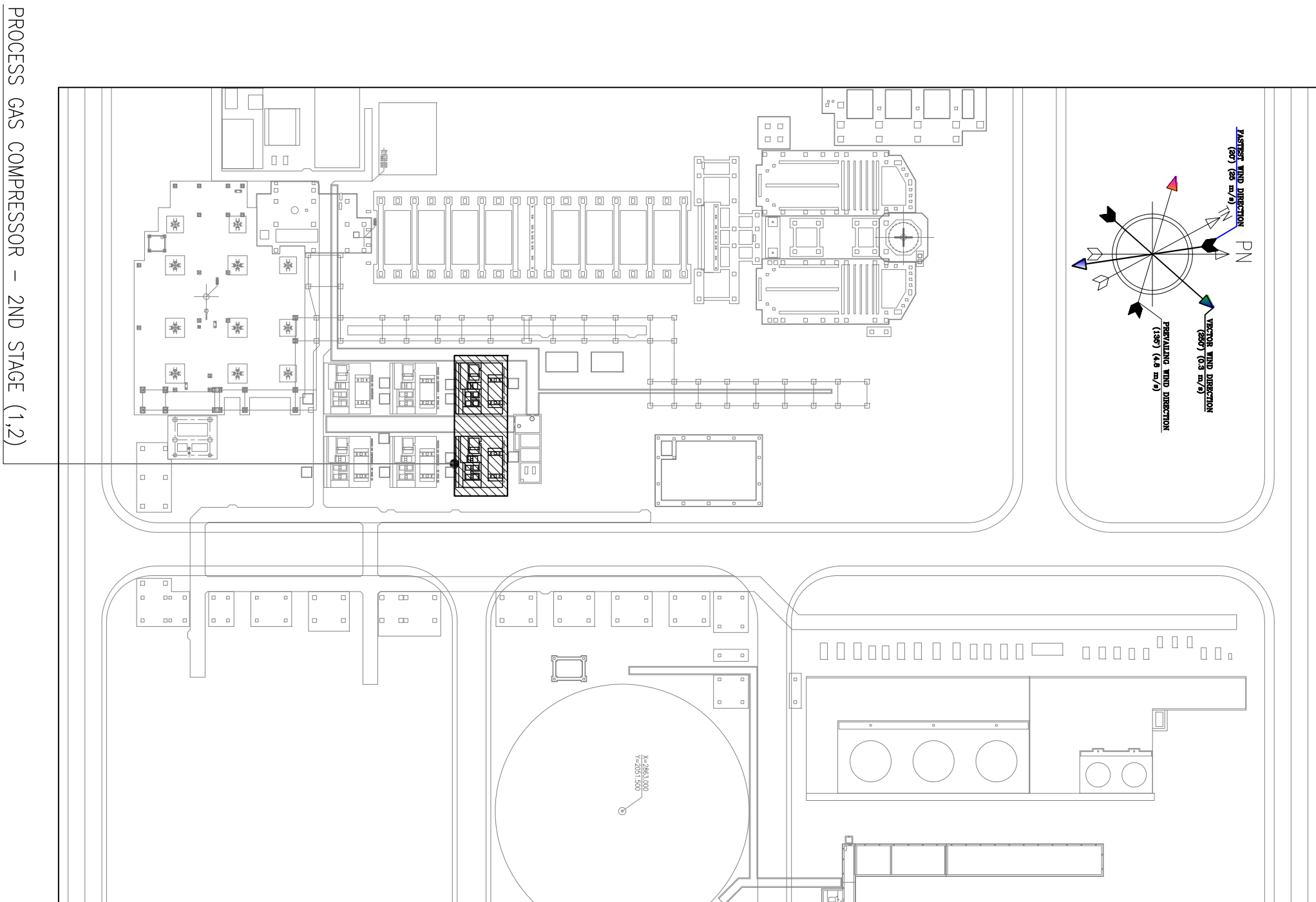
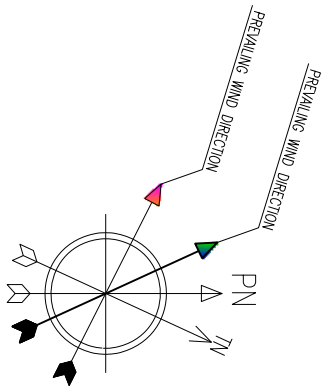
F – SYMBOLS :

- F-1 –CONCRETE
- F-2 –LEAN CONCRETE/GROUT
- F-3 – GRAVEL
- F-4 – EARTH



FOUNDATION LAYOUT PLAN

Sc: 1/150



KEY PLAN

Sc: N.T.S.

02	JUL 2022	ISSUED FOR CONSTRUCTION	IFC	S.MASUM	ASMADEENI SHABBAHCHI
01	MAY 2022	ISSUED FOR APPROVAL	IFA	S.MASUM	ASMADEENI SHABBAHCHI
REV.	DATE	DESCRIPTION	PURPOSE OF ISSUE	PREPARE	CHECK
Project: TOOBA GSD MEGA MODULE PROJECT					
Client: MINE & METALS TECHNOLOGICAL ENGINEERING CO.					
Contractor: MINE & METALS TECHNOLOGICAL ENGINEERING CO.					
Client's Project	Project Code	Main Contractor	Plant Group	Equipment Code	Document type
GSD	7-3	119	1009	7	CO
Signature	DATE	designator	CIVIL WORKS FOR PROCESS GAS COMPRESSOR 2ND STAGE GENERAL NOTE & KEY PLAN		
DESIGNED R.SAFARI	MAY 2022				
DRAWN S.MASUM	MAY 2022				
CHECKED ASMADEENI	MAY 2022				
APPROVED S.MASUMCHI	MAY 2022				
		Scale	Sheet	Serial No.	
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