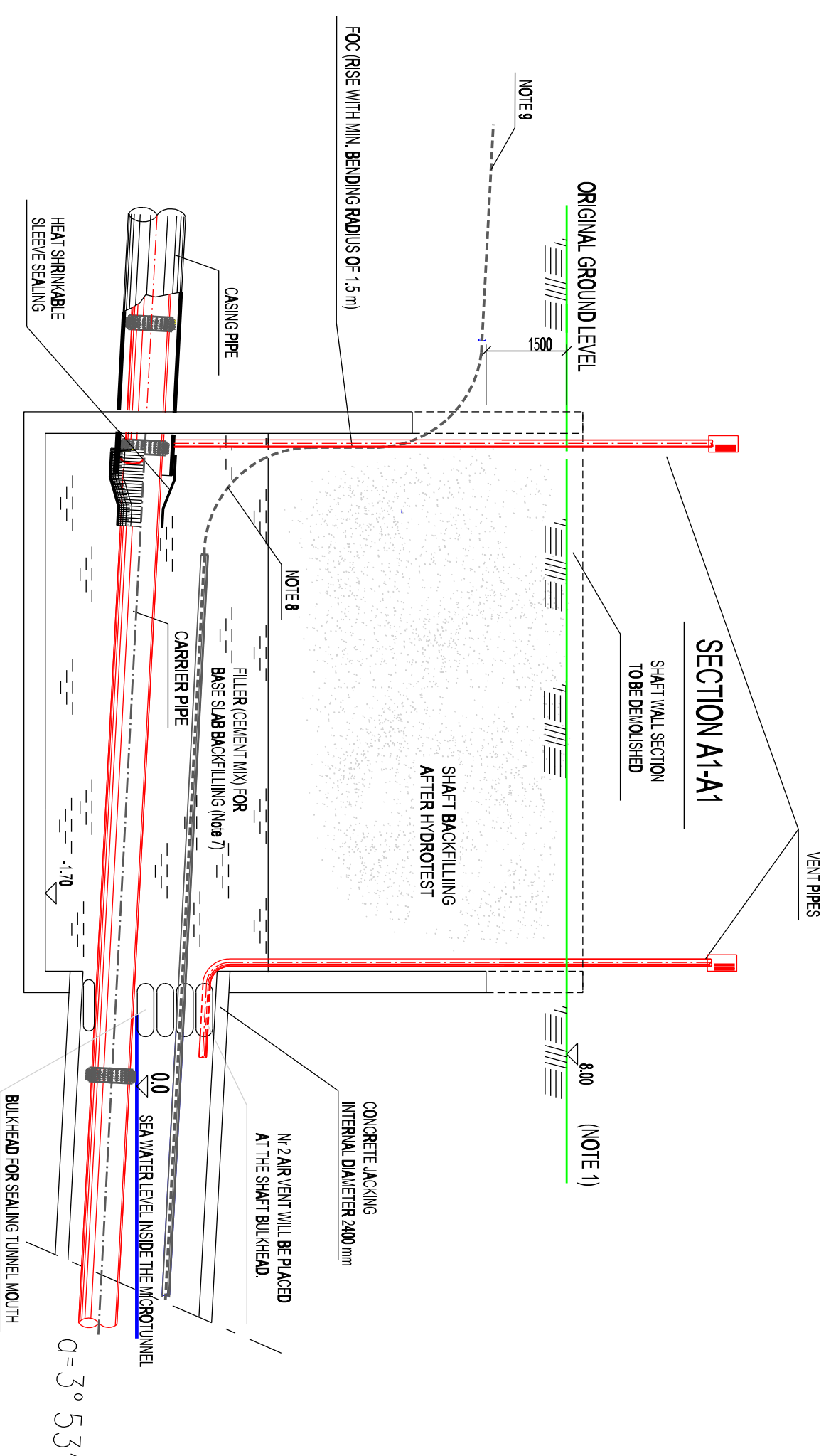
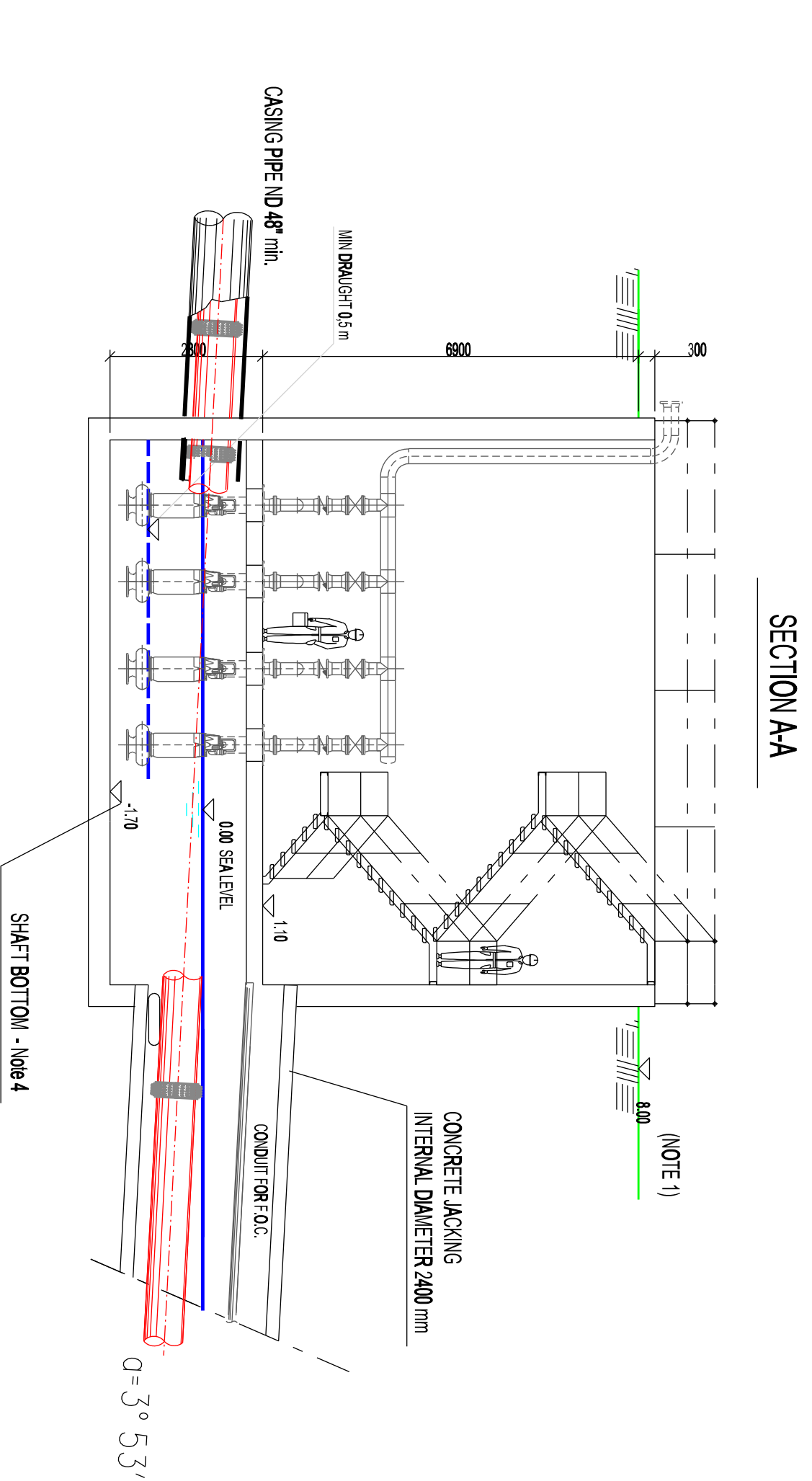
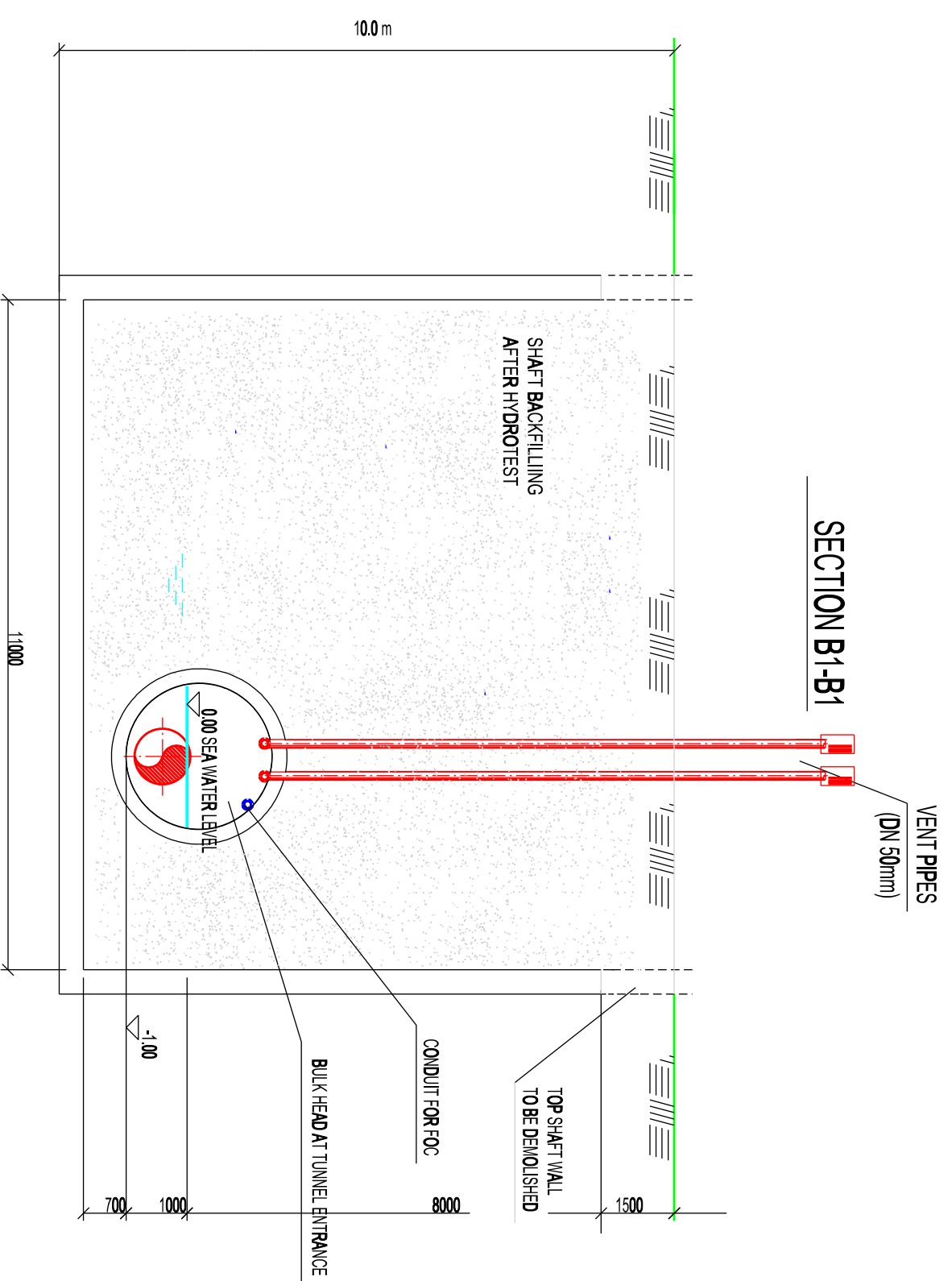
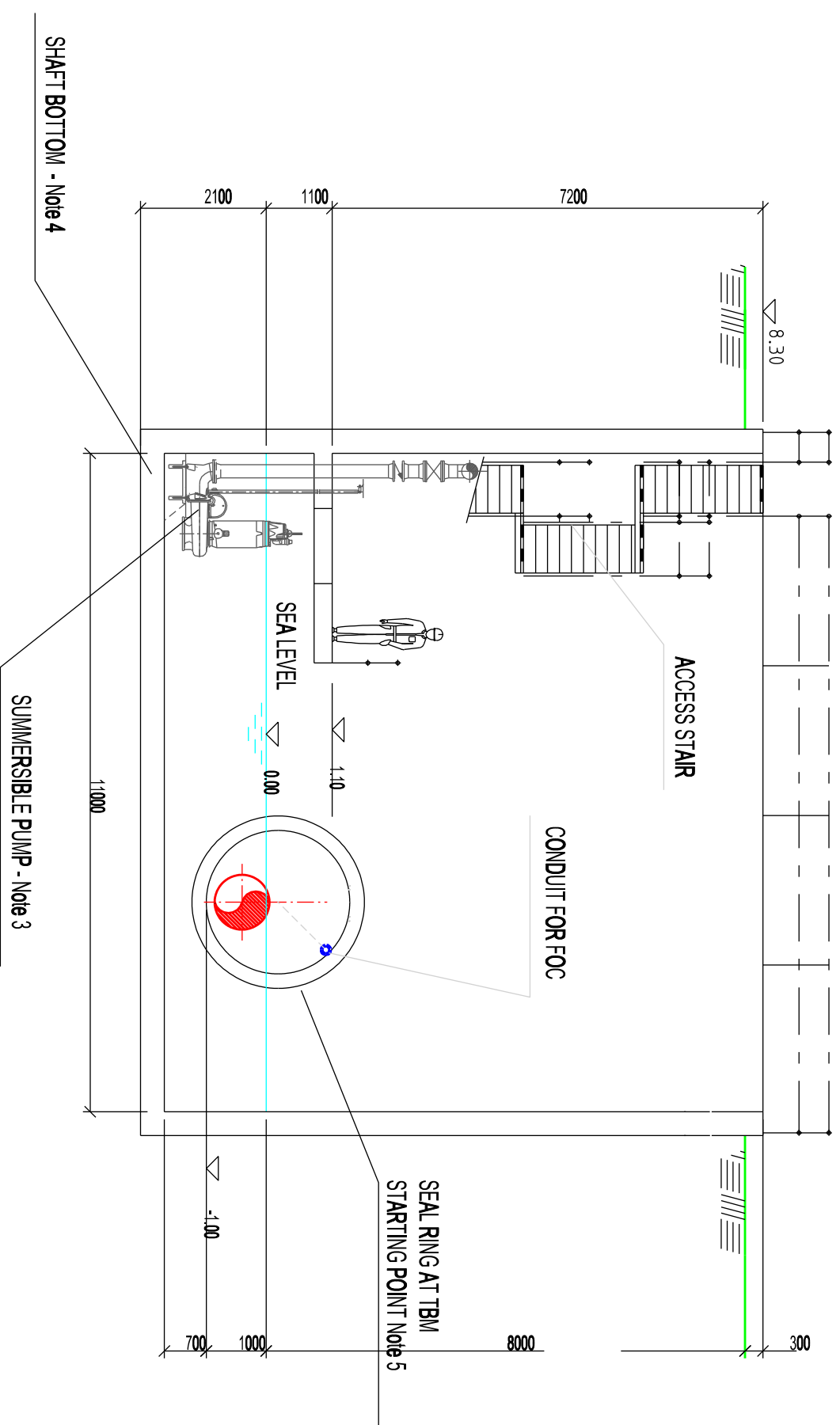
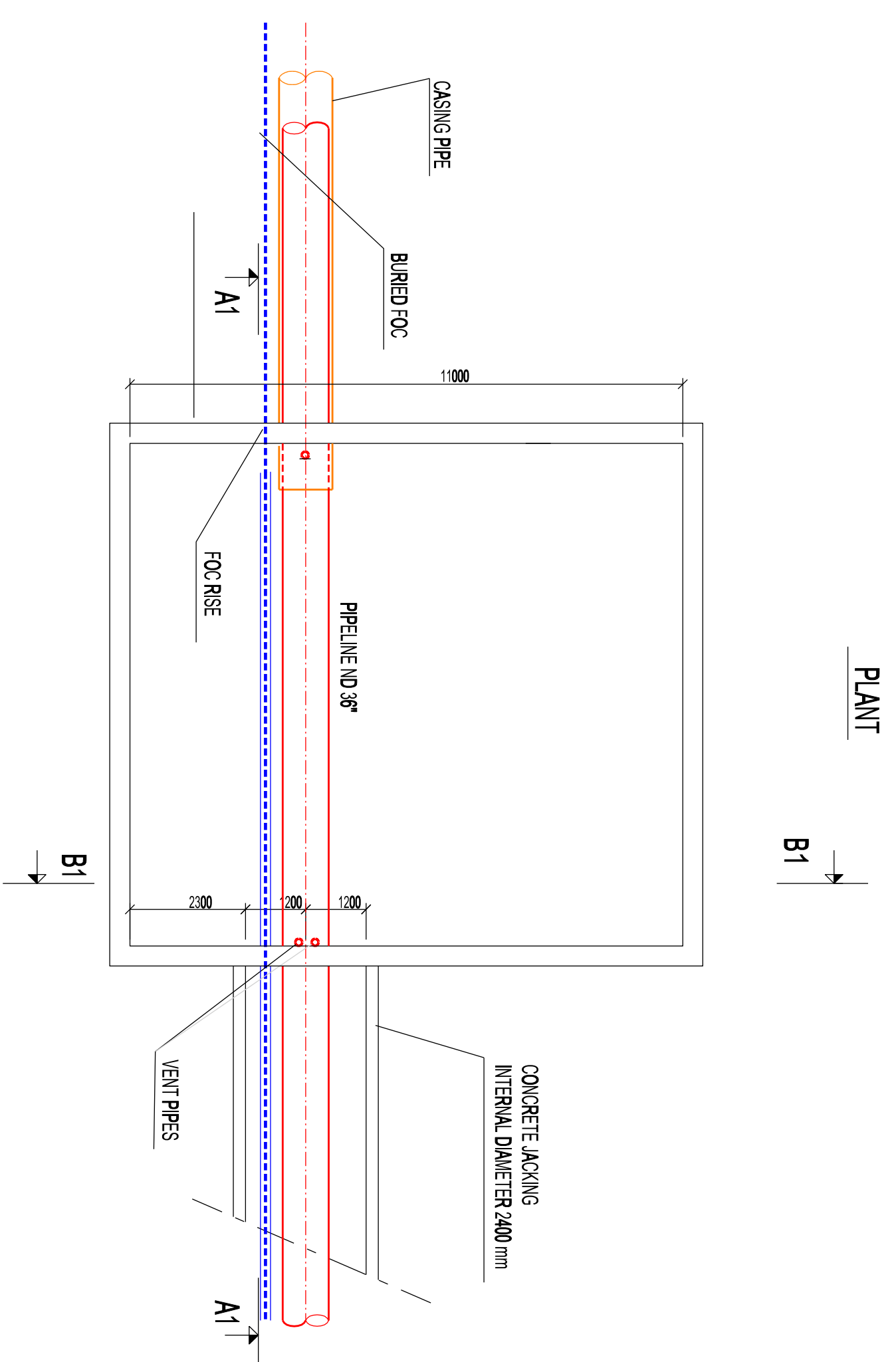
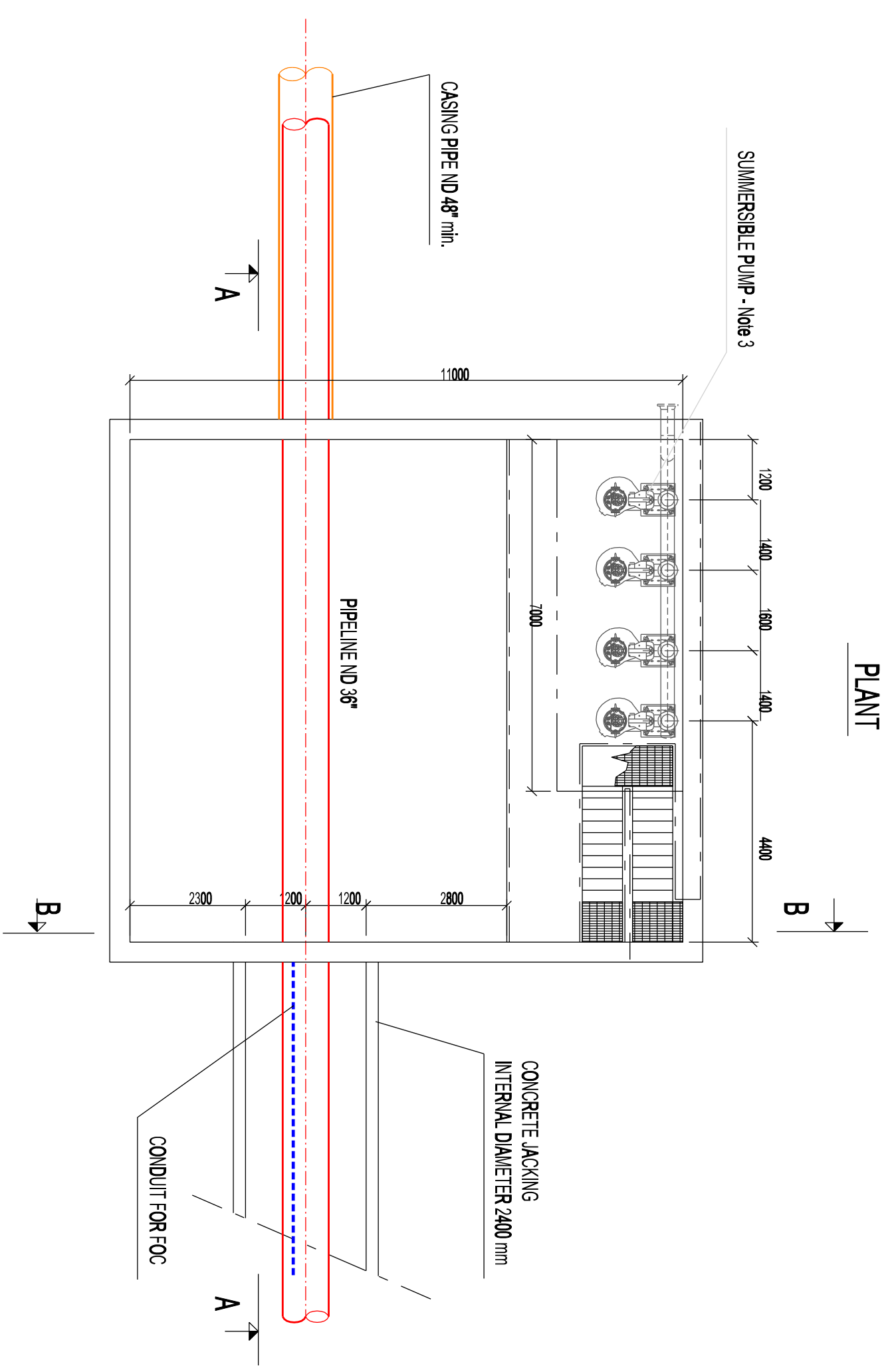


SHAFT DURING CONSTRUCTION PHASES

SHAFT AT FINAL CONFIGURATION



| NO. | REFERENCE DOCUMENTS |
|-----|--|
| 1 | NON-TUNNEL INSULATION-JMP AND PROFILE-REV.00 |
| | OP.00-SPF-124-Q-TSF-0002-REV.01 |

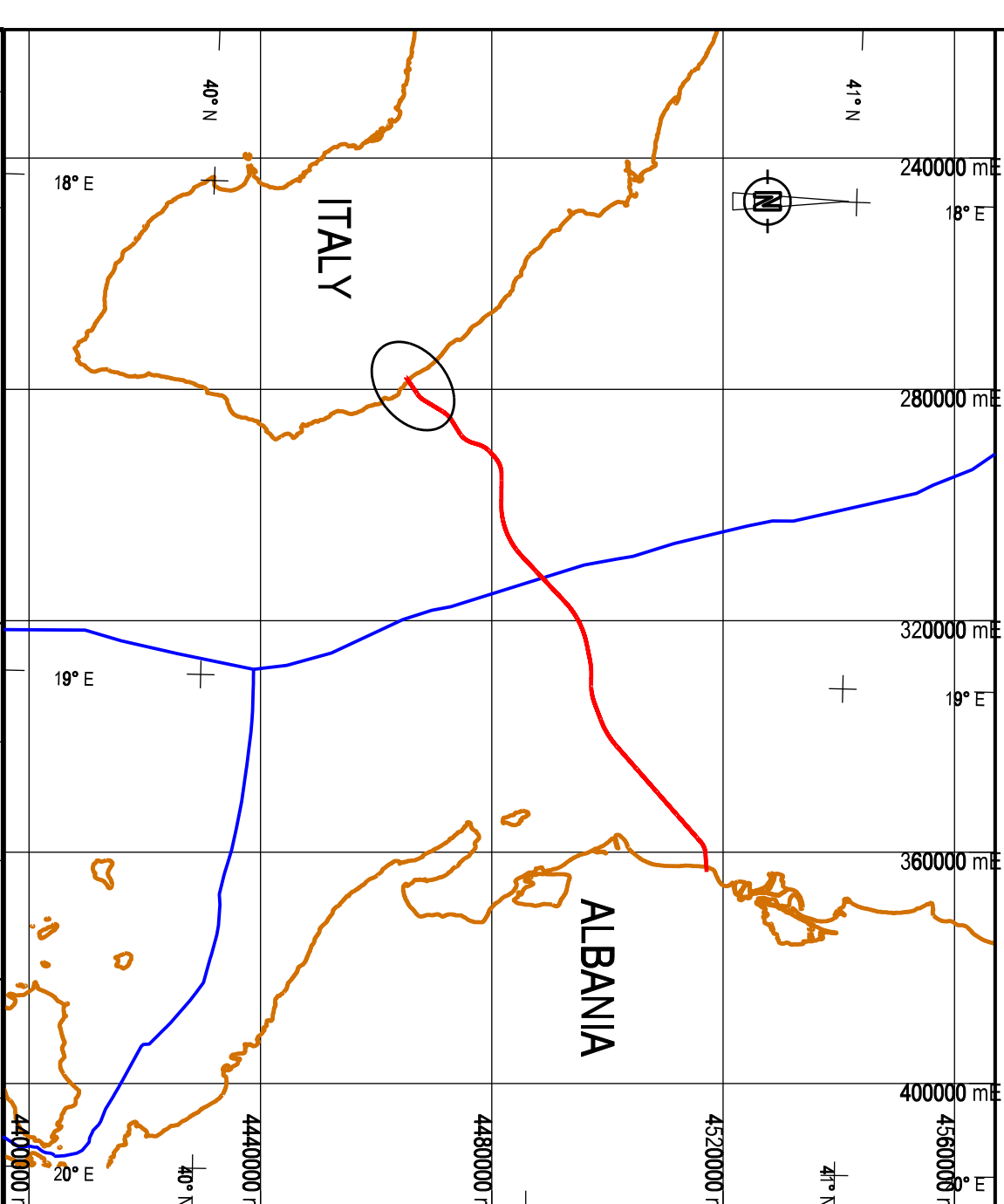
NOTE:

- WORKING AREA PROPOSED ELEVATION IS REFERRED TO TOPOGRAPHIC LEVELS (LODAS ST12222)
- SHAFT DIMENSIONS ARE EXPRESSED IN MILLIMETERS. ELEVATION IN METERS IS INDICATIVE ONLY.
- WATER INTAKE SYSTEM BY SUBMERSIBLE PUMP (CHANNEL IMPELLER) SHOWN IN THE DRAWING IS INDICATIVE ONLY.
- THE CONCRETE FLOOR IN CORRESPONDENCE OF PUMP LOCATION SHALL BE DEMOLISHED IF NECESSARY.
- AT THE TBM STARTING POINT A CONCRETE BOX WILL BE PROPERLY ANCHORED TO THE SHAFT WALL AND PROVIDED WITH A WATER SEAL.
- REF. TO SECTION 10 OF DOC. OP.L00-SPF-124-Q-TSF-0002-REV.01.
- A VENT SYSTEM SHALL BE INSTALLED BEFORE FINAL SHAFT BACKFILLING.
- A FIRST LAYER OF SHAFT BACKFILLING SHALL BE CARRIED OUT WITH FILTER MATERIAL BASED ON CEMENT MIXTURE (LOW STRENGTH).
- TO BE PROTECTED AFTER FOC CABLE PULLIN.
- FOC BURIED AND LOCATE IN CONCRETE DUCT.

KEY MAP (Scale 1:1000)



GEODETIC REFERENCE SYSTEM
 Datum: WGS84 Spheroid: WGS84
 Projection: UTM (Zone 34) Central Meridian: 21°E
 Vertical Ref. Level: LAT



| NO. | DATE | DESCRIPTION | Prepared | Checked | Approved | Date | Approved |
|-----|------------|-------------------------|----------|-----------|----------|------|----------|
| 01 | 06-02-2013 | ISSUED FOR CONSTRUCTION | CONGRATI | MACCHIONI | BAJUNINI | | |
| 02 | 04-12-2013 | ISSUED FOR CONSTRUCTION | CONGRATI | MACCHIONI | BAJUNINI | | |
| 03 | 27-09-2013 | ISSUED FOR REVIEW | CONGRATI | MACCHIONI | BAJUNINI | | |
| 04 | 20-09-2013 | ISSUED FOR DOC. | CONGRATI | MACCHIONI | BAJUNINI | | |

| PROJ. NO. | PROJ. DATA | PROJ. TITLE | SCALE |
|-----------|-----------------|--------------------|-------|
| 022720 | 01-1-C-B-8-1007 | SHAFT REQUIREMENTS | 1:100 |

| NO. | DATE | DESCRIPTION | Prepared | Checked | Approved |
|-----|------------|-------------------------|----------|-----------|----------|
| 01 | 02-07-2013 | ISSUED FOR CONSTRUCTION | CONGRATI | MACCHIONI | BAJUNINI |
| 02 | 04-12-2013 | ISSUED FOR CONSTRUCTION | CONGRATI | MACCHIONI | BAJUNINI |
| 03 | 27-09-2013 | ISSUED FOR REVIEW | CONGRATI | MACCHIONI | BAJUNINI |
| 04 | 20-09-2013 | ISSUED FOR DOC. | CONGRATI | MACCHIONI | BAJUNINI |