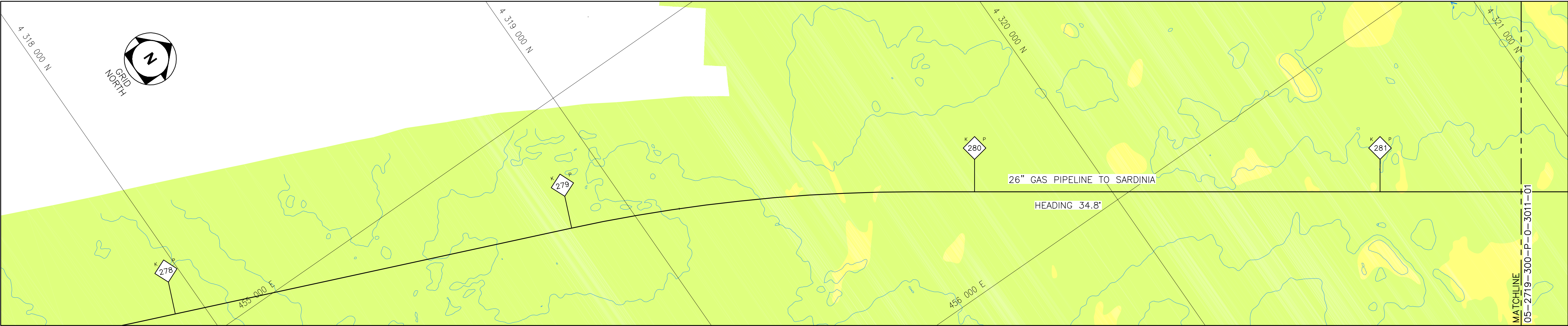
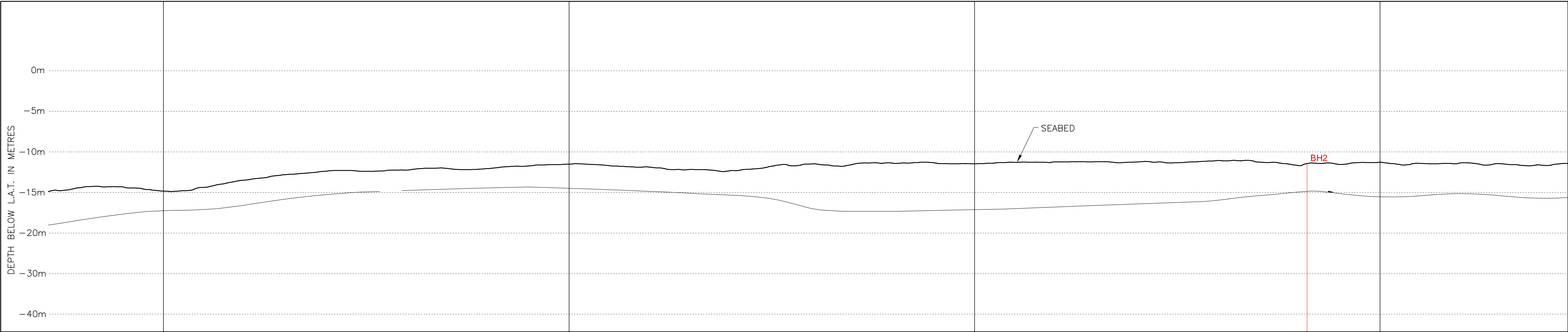


PIPELINE PLAN



SEABED PROFILE SCALE : 1:5000 HORIZONTAL & 1:500 VERTICAL



KILOMETER STATION ALONG PIPELINE @	KP 278	KP 279	KP 280	KP 281
PIPELINE DETAILS	585.8mm ID x 17.5mm WT – DNV 485 IFDU			
ANTI-CORROSION COATING	3.8mm 3 LAYER PP			
CONCRETE WEIGHT COATING	75mm THICK @ 3040 kg/m3 DENSITY			
ANODE DETAILS	MIN. 1 ANODE EVERY 21 JOINTS			
INTERVENTION DETAILS	POST LAY TRENCH TO 2.0m T.O.P. BELOW MEAN SEABED & BACKFILL 1.25m SOIL & 0.75m ROCK			

PIPELINE DETAILS

LEGEND

SEDIMENT TYPES

- SILT
- Undisturbed seabed
- Undulating seabed due to buried mass movement deposits
- Surface mass movement deposits
- Exposed failure plane

BATHYMETRY / TOPOGRAPHY

- Major bathymetric contour at a 10 m interval relative to L.A.T.
- Minor bathymetric contour at a 1 m interval relative to L.A.T.
- L.A.T.

SEABED FEATURES

- SAND
- GRAVEL
- CORAL
- CARBONATE
- ROCK
- SEA GRASS (POSEDONIA)
- Sediment boundary (dashed where inferred)
- Ripple marks orientation
- Seabed scar

NOTES

1.ACCESS REQUIREMENTS (WIDTH & DEPTHS) ARE ASSUMED AND WILL BE CONFIRMED BY CONTRACTOR ACCORDING TO PROPOSED EQUIPMENT.

2.FOR FURTHER DETAILS SEE ALIGNMENT SHEETS.

3.INTERVENTION DETAILS REFLECT MINIMUM REQUIREMENT EXCLUDING ACCESS DREDGING.

4.LOCAL FEATURE WITHIN SHORE PULL LENGTH. BACKFILL WILL BE TO SURROUNDING SEABED LEVEL.

5.CO-ORDINATES ARE BASED ON WGS84 ELLIPSOID, UNIVERSAL TRANSVERSE MERCATOR PROJECTION – ZONE 32 NORTH. CENTRAL MERIDIAN 9° EAST. GEODETIC DATUM WGS84 (ETRF 1989)

6.DEPTHS ARE IN METRES AND ARE RELATIVE TO L.A.T.

7.COFFERDAM WITH 10m BOTTOM WIDTH (TO BE CONFIRMED BY CONTRACTOR).

8.BACKFILL REQUIREMENTS GIVEN IN 03-P-3-0512-TRENCHING SUMMARY

DISTANCE IN METRES

100 200 300 400 500

SCALE 1:5000

05-2719-300-U-0-3009	PORTO BOTTE LANDFALL APPROACH (SARDINIA SOUTH) LANDFALL CONSTRUCTION SITE
05-2719-300-U-0-3007	LANDFALL APPROACH SARDINIA (SOUTH) L'FALL TO 20m DEPTH
05-2719-300-U-0-3006	LANDFALL APPROACH SARDINIA (SOUTH)
05-2719-300-U-0-3005	ALGERIA TO SARDINIA FEED OVERALL ROUTE LAYOUT
DRAWING No.	TITLE
REFERENCE DRAWINGS	

REV	DATE	DESCRIPTION	BY	CHK	ENG	PM	CLIENT
03	30-11-09	ISSUED FOR INFORMATION	RO	CD	SL	AFB	
02	11-11-08	ISSUED FOR APPROVAL	RO	CD	SL	AFB	
01	06.08.08	ISSUED FOR COMMENT	RO	CD	SL	AFB	

CLIENT

Galsi

J P KENNY

SOFREGAZ

PROJECT

GAS PIPELINE PROJECT
ALGERIA TO ITALY VIA SARDINIA

TITLE

PORTO BOTTE NEARSHORE PIPELINE DREDGING DETAILS
(SARDINIA SOUTH)

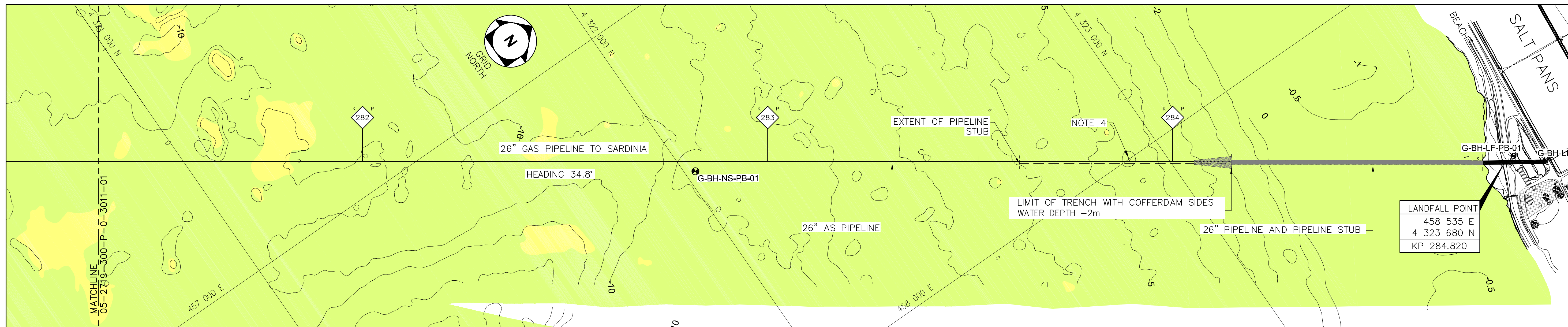
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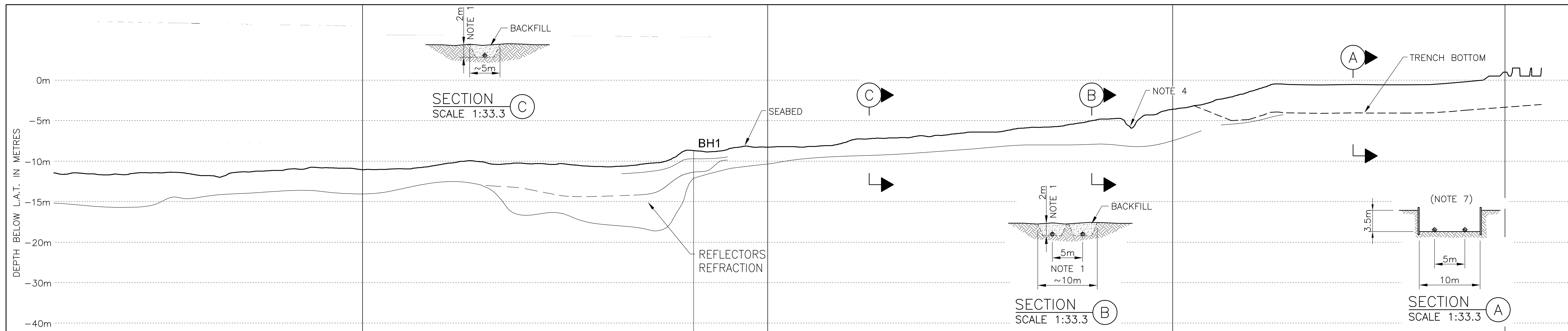
REV

03

PIPELINE PLAN



SEABED PROFILE SCALE : 1:5000 HORIZONTAL & 1:500 VERTICAL



KILOMETER STATION ALONG PIPELINE @	KP 282	282.700	KP 283	283.520	283.620	KP 284	284.050	284.150	284.370	284.720	284.767	LANDFALL POINT KP 284.82 L.A.T.	LAYDOWN POINT
PIPELINE DETAILS	585.8mm ID x 17.5mm WT - DNV 485 IFDU												
ANTI-CORROSION COATING	3.8mm 3 LAYER PP												
CONCRETE WEIGHT COATING	75mm THICK @ 3040 kg/m3 DENSITY												
ANODE DETAILS	MIN. 1 ANODE EVERY 21 JOINTS												MIN. 1 ANODE EVERY 19 JOINTS
INTERVENTION DETAILS	POST LAY TRENCH TO 2.0m T.O.P. BELOW MEAN SEABED & BACKFILL 1.25m SOIL & 0.75m ROCK												TRENCH WITH COFFER DAM TO 2.5m T.O.P.

PIPELINE DETAILS

LEGEND

SEDIMENT TYPES
SILT
Undisturbed seabed
Undulating seabed due to buried mass movement deposits
Surface mass movement deposits
Exposed failure plane

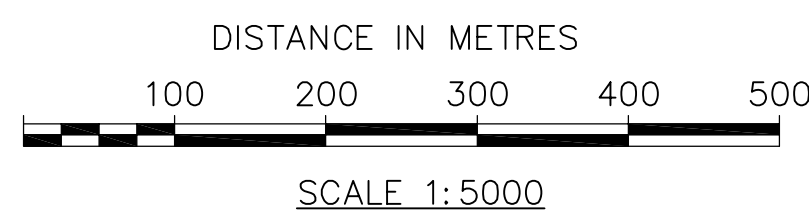
SAND
GRAVEL
CORAL
CARBONATE
ROCK
SEA GRASS (POSEDONIA)

BATHYMETRY / TOPOGRAPHY
Major bathymetric contour at a 10 m interval relative to L.A.T.
Minor bathymetric contour at a 1 m interval relative to L.A.T.
L.A.T.

SEABED FEATURES
Sediment boundary (dashed where inferred)
Ripple marks orientation
Seabed scar

NOTES

- 1.ACCESS REQUIREMENTS (WIDTH & DEPTHS) ARE ASSUMED AND WILL BE CONFIRMED BY CONTRACTOR ACCORDING TO PROPOSED EQUIPMENT.
- 2.FOR FURTHER DETAILS SEE ALIGNMENT SHEETS.
- 3.INTERVENTION DETAILS REFLECT MINIMUM REQUIREMENT EXCLUDING ACCESS DREDGING.
- 4.LOCAL FEATURE WITHIN SHORE PULL LENGTH. BACKFILL WILL BE TO SURROUNDING SEABED LEVEL.
- 5.CO-ORDINATES ARE BASED ON WGS84 ELLIPSOID, UNIVERSAL TRANSVERSE MERCATOR PROJECTION - ZONE 32 NORTH. CENTRAL MERIDIAN 9° EAST. GEODETIC DATUM WGS84 (ETRF 1989)
- 6.DEPTHS ARE IN METRES AND ARE RELATIVE TO L.A.T.
- 7.COFFERDAM WITH 10m BOTTOM WIDTH (TO BE CONFIRMED BY CONTRACTOR).
- 8.BACKFILL REQUIREMENTS GIVEN IN 03-P-3-0512-TRENCHING SUMMARY



DRAWING No.	TITLE
05-2719-300-U-0-3009	PORTO BOTTE LANDFALL APPROACH (SARDINIA SOUTH) LANDFALL CONSTRUCTION SITE
05-2719-300-U-0-3007	LANDFALL APPROACH SARDINIA (SOUTH) L'FALL TO 20m DEPTH
05-2719-300-U-0-3006	LANDFALL APPROACH SARDINIA (SOUTH)
05-2719-300-U-0-3005	ALGERIA TO SARDINIA FEED OVERALL ROUTE LAYOUT
REFERENCE DRAWINGS	

REV	DATE	DESCRIPTION	BY	CHK	ENG	PM	CLIENT
03	30.11.09	ISSUED FOR INFORMATION	RO	CD	SL	AFB	
02	11.11.08	ISSUED FOR APPROVAL	RO	CD	SL	AFB	
01	06.08.08	ISSUED FOR COMMENT	RO	CD	SL	AFB	

CLIENT	Galsi	J P KENNY
PROJECT	GAS PIPELINE PROJECT ALGERIA TO ITALY VIA SARDINIA	
TITLE	PORTO BOTTE NEARSHORE PIPELINE DREDGING DETAILS (SARDINIA SOUTH)	
DRG. No.	05-2719-300-P-0-3011-02	REV 03