

# FRENCH LANDFALL WORKS

BES - PLAN VIBES - PLAN VIEW AND PROFILE - MICRO-TUNNEL DRIVE 3 - CAPBRETON NORTH [OFFSHORE]



**PROJECT** Biscay Gulf Project

**CUSTOMER** INELFE

**Customer Reference** BGP-L2-EM-F-LFD-DWG-0003

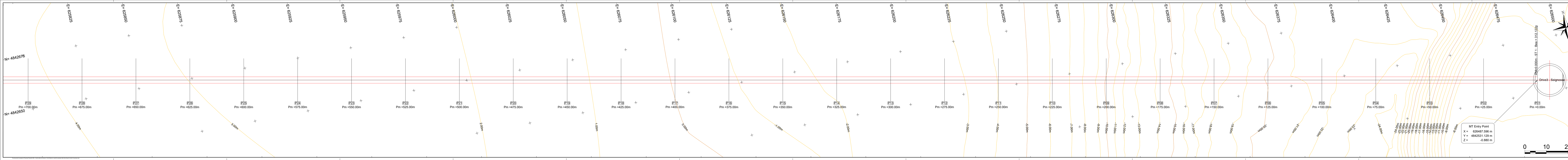
**Prysmian Reference** PPL18035-ID-DWG-007

**Document Version** v00

**Document Status** IFR

## Document Control Log

Version	Date	Issued by	Verified by	Approved by
00	07.09.2023	BESSAC	M. Sacchi / G. Cipriano	V. Acquaotta



REFERENCE DOCUMENT	
NUMBER	TITLE
PPL18035-ID-DWG-004	BES - Construction Drawings - Concrete Jacking Pipes & Inter-jacking Stations Ø2500/3000
PPL18035-ID-DWG-011	BES - Site Works - Micro-tunnel activities Drive 3 - Capbreton North (OFFSHORE)
PPL18035-ID-DWG-014	BES - Construction Drawings - Starting Shaft P2 - Capbreton North
PPL18035-ID-PRO-007	BES - Work Procedure - Excavation of a Micro-tunnel - Drive 3 - Seignosse
PPL18035-ID-TEC-001	BES - Assumptions and Design Principles

Topo-bathymetric origin data:	
VUE EN PLAN	Etudes topographiques "Les Casernes"
E4_2020	Vue en plan
	EMODNET Bathym Data
PRJ_PRY_030822	Preliminary RPR

Notes:

- From Pm=0m to Pm=60m, "VUE EN PLAN" used for an shore topographic data.
- From Pm=60m onwards, E4\_2020 used to cover the area.
- "LOT1\_NORTH\_2020803" reversed KP's used for KP calculation.

List of abbreviation			
HAT	Highest Astronomical Tide	E	Easting
N	Northing	N	Northing
MSL	Mean Sea Level	MP	Metric Point
LAT	Lowest Astronomical Tide	BS	Bearing
CR	Curved Radius	CR	Curved Radius
CD	Chart Datum (Hydrographic Zero)	ST	Straight
MT	Micro-Tunnel	L	Length

Vertical Datum Reference (referred to Capbreton, France)		
Type	Height to sea level	Reference system
MSL (Mean Sea Level)	0.000 m	MSL
CD (Chart Datum)	-0.880 m	CD
HT (Highest Astronomical Tide)	0.000 m	HT
LT (Lowest Astronomical Tide)	-0.880 m	LT

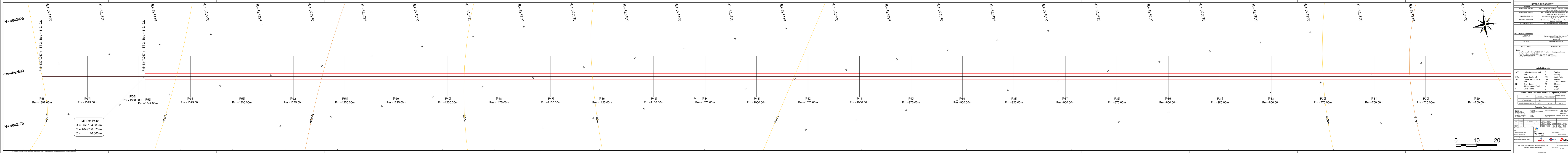
Geodetic Parameters			
DATUM	WGS84	VERTICAL REFERENCE	LAT and sea level
PROJECTION	UTM (EPSG: 31430)	UNIT	meter
FALSE EASTING	500000	SCALE FACTOR	1
FALSE NORTHING	0		
SCALE FACTOR	1		

Geographic Coordinates	
UTM Zone	31Q
UTM Easting	626487.596
UTM Northing	4842531.129
UTM False Easting	500000
UTM False Northing	0

MT Entry Point  
 X = 626487.596 m  
 Y = 4842531.129 m  
 Z = -0.880 m



REFERENCE DOCUMENT	
NUMBER	TITLE
PPL18035-ID-DWG-004	BES - Construction Drawings - Concrete Jacking Pipes & Inter-jacking Stations #2509/3000
PPL18035-ID-DWG-011	BES - Site Layout - Micro-tunnel activities Drive 3 - Capbreton North (OFFSHORE)
PPL18035-ID-DWG-014	BES - Construction Drawings - Starting Shaft P2 - Capbreton North
PPL18035-ID-PRO-007	BES - Work Procedure - Excavation of a Micro-tunnel - Drive 3 - Subaqueous
PPL18035-ID-TEC-001	BES - Assumptions and Design Principles

topo-bathymetric origin data:	
VUE EN PLAN	Etudes topographiques "Les Caerney"
E4_2020	Vue en plan
EMODNET	Bathy data
RPL_PRY_03622	Preliminary RPL

**Notes:**

- From Pm=0m to Pm=400m, "VUE EN PLAN" used for on shore topographic data.
- From Pm=400m onwards, E4\_2020 used to cover the area.
- "LOT1\_NORTH\_20220803" reversed KP's used for KP calculation.

List of abbreviation			
HAT	Highest Astronomical Tide	E	Easting
N	Northing	N	Northing
MSL	Mean Sea Level	PM	Metric Point
LAT	Lowest Astronomical Tide	BS	Bearing
CR	Curved Radius	CR	Curved Radius
CD	Chart Datum (Hydrographic Zero)	ST	Straight
MT	Micro-Tunnel	L	Length

Vertical Datum Reference (referred to Capbreton, France)			
Type	Height above datum (m)	Height above datum (m)	Height above datum (m)
HAT	1.76	1.76	1.76
MSL	0.00	0.00	0.00
LAT	-1.76	-1.76	-1.76
CD	-1.76	-1.76	-1.76

Geodetic Parameters			
DATUM	WGS84	VERTICAL REFERENCE	LAT and use another
PROJECTION	UTM (EPSG: 32000)	UNIT	meter
FALSE EASTING	500000	SCALE	water depths
FALSE NORTHING	0	SCALE FACTOR	1
SCALE FACTOR	1.000000		

NO	DESCRIPTION	DATE	BY	CHECKED	APPROVED	REVISION
01	Issue for construction	2023-08-01	J. B.	J. B.	J. B.	1

**Logos:** Prysmian, BESAC, HCH, ETMF

# Axis : Drive3 - Seignosse

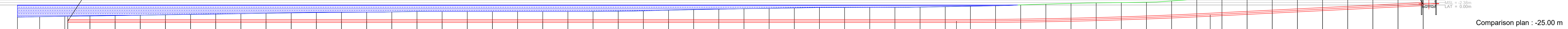
Scale in X : 1/1000

Scale in Y : 1/1000

MT Exit Point  
X = 625164.883 m  
Y = 4842786.073 m  
Z = 16.000 m

MT Entry Point  
X = 626487.596 m  
Y = 4842531.129 m  
Z = -0.880 m

Comparison plan : -25.00 m



Station	Ground altitudes	MT Axis altitudes	Ground cover (MT Axis to ground level)	Chainage	Chainage 3D	Kilometre point (KP)
P58	12.00	16.00	5.05	1397.06	1772.28	
P57	11.67	16.00	5.45	1375.00	1750.24	
P56	11.32	16.00	5.85	1350.00	1725.25	
P55	11.28	16.00	6.24	1347.06	1722.31	
P54	10.95	16.00	6.60	1325.00	1700.27	
P53	10.55	16.00	7.35	1300.00	1675.28	
P52	10.15	16.00	8.10	1275.00	1650.30	
P51	9.77	16.00	8.48	1250.00	1625.31	
P50	9.40	16.00	8.75	1225.00	1600.33	
P49	9.03	16.00	8.90	1200.00	1575.34	
P48	8.65	16.00	9.11	1175.00	1550.36	
P47	8.27	16.00	9.54	1150.00	1525.38	
P46	7.90	16.00	9.50	1125.00	1500.39	
P45	7.52	16.00	9.50	1100.00	1475.41	
P44	7.25	16.00	9.50	1075.00	1450.42	
P43	7.10	16.00	9.50	1050.00	1425.44	
P42	6.89	16.00	9.50	1025.00	1400.45	
P41	6.46	16.00	9.50	1000.00	1375.47	
P40	6.50	16.00	9.50	975.00	1350.48	
P39	6.50	16.00	9.50	950.00	1325.50	
P38	6.50	16.00	9.50	925.00	1300.52	
P37	6.50	16.00	9.50	900.00	1275.53	
P36	6.50	16.00	9.50	875.00	1250.55	
P35	6.50	16.00	9.50	850.00	1225.56	
P34	6.44	16.00	9.57	825.00	1200.58	
P33	6.19	16.00	9.81	800.00	1175.59	
P32	5.80	16.00	10.20	775.00	1150.61	
P31	5.19	16.00	10.81	750.00	1125.62	
P30	4.61	16.00	11.39	725.00	1100.64	
P29	4.05	16.00	11.95	700.00	1075.65	
P28	3.67	16.00	12.33	675.00	1050.67	
P27	3.34	16.00	12.66	650.00	1025.69	
P26	2.93	16.00	13.07	625.00	1000.70	
P25	2.53	16.00	13.47	600.00	975.72	
P24	2.44	16.00	13.56	575.00	950.73	
P23	2.36	16.00	13.64	550.00	925.75	
P22	2.29	16.00	13.71	525.00	900.76	
P21	2.09	16.00	13.91	500.00	875.78	
P20	1.67	16.00	14.33	475.00	850.79	
P19	1.21	16.00	14.77	450.00	825.81	
P18	0.72	16.00	15.13	425.00	800.82	
P17	-0.10	16.00	15.69	400.00	775.84	
P16	-0.88	16.00	16.10	375.00	750.40	
P15	-1.58	16.00	16.29	350.00	725.43	
P14	-2.09	16.00	16.18	325.00	700.47	
P13	-2.37	16.00	15.71	300.00	675.50	
P12	-2.82	16.00	15.29	275.00	650.54	
P11	-4.04	16.00	15.51	250.00	625.57	
P10	-6.13	16.00	16.48	225.00	600.61	
P09	-10.09	16.00	19.21	200.00	575.64	
P08	-14.26	16.00	22.13	175.00	550.68	
P07	-17.43	16.00	24.05	150.00	525.71	
P06	-20.00	16.00	25.37	125.00	500.75	
P05	-21.45	16.00	25.57	100.00	475.78	
P04	-22.90	16.00	25.76	75.00	450.82	
P03	-17.52	16.00	19.13	50.00	425.85	
P02	-8.00	16.00	8.37	25.00	400.89	
P01	-8.16	-0.88	7.28	0.00	375.92	

RAMP L = 883.22 m S = 0.00 %

CR = 5050.00 L = 252.18

SLOPE L = 211.65 m S = -5.00 %

STRAIGHT L = 1397.06 m



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CD	Chart Datum (Hydrographic Zero)	CR	Curved Radius
MT	Micro-Tunnel	ST	STraight
		S	Slope
		L	Length

Vertical Datum Reference (referred to Capbreton, France)			
Tide	Height to CD (from ICHM Tables 2020)	Height to ES (Banyuls v10) (from ICHM Tables 2020)	Height to IGN69 (mètre géodésique national) (from IGN Tables 2020)
HAT (Highest Astronomical Tide)	4.79 m		
MSL (Mean Sea Level)	2.41 m		
LAT (Lowest Astronomical Tide)	0.03 m		
CD (Chart Datum/Hydrographic Zero)	0.00 m	46.28 m	-2.094 m

Geodetic Parameters			
DATUM	: WGS84	VERTICAL REFERENCE	: LAT and use positive values when describing water depths
PROJECTION	: UTM30N (EPSG 32630)		
FALSE EASTING	: 500000		
FALSE NORTHING	: 0		
CENTRAL MERIDIAN	: 3° E		
SCALE FACTOR	: 0.9996		

Revision	Date	Description	Contractor	Contractor	INELFE	INELFE
00-01	05/09/2023	Addressing C500-01 - Issued for Approval	Blas E	Method		
00-02	05/09/2023	Initial submission - Issued for Approval	Blas E	Method	First name	First name
			LAST NAME	LAST NAME	LAST NAME	LAST NAME

Employer's logo and business name:

Client's logo and business name:

Contractor's logo and business name: