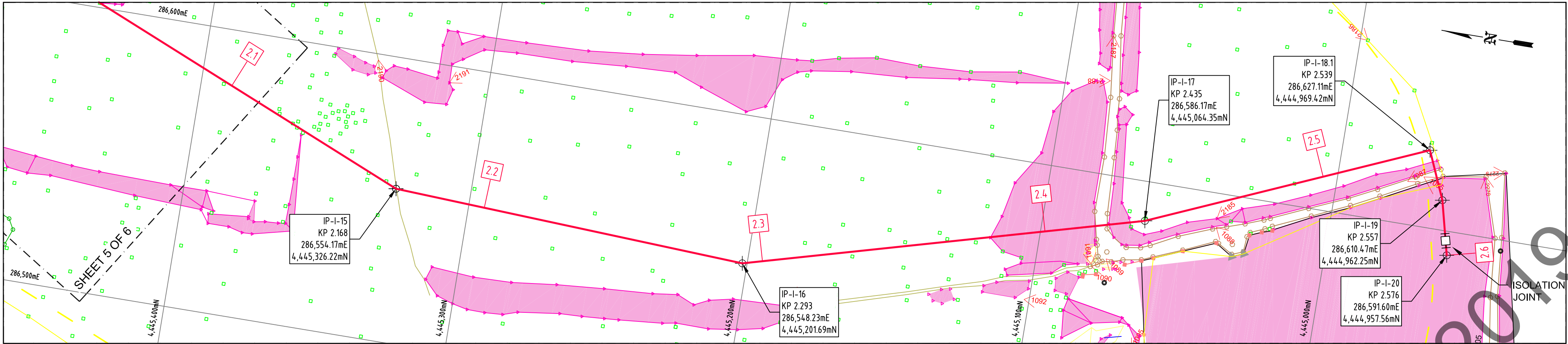
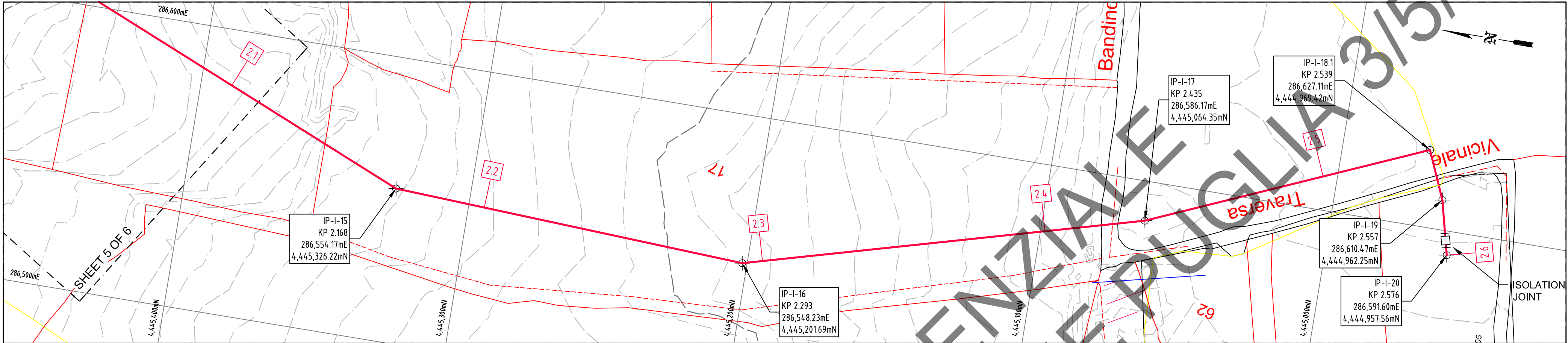


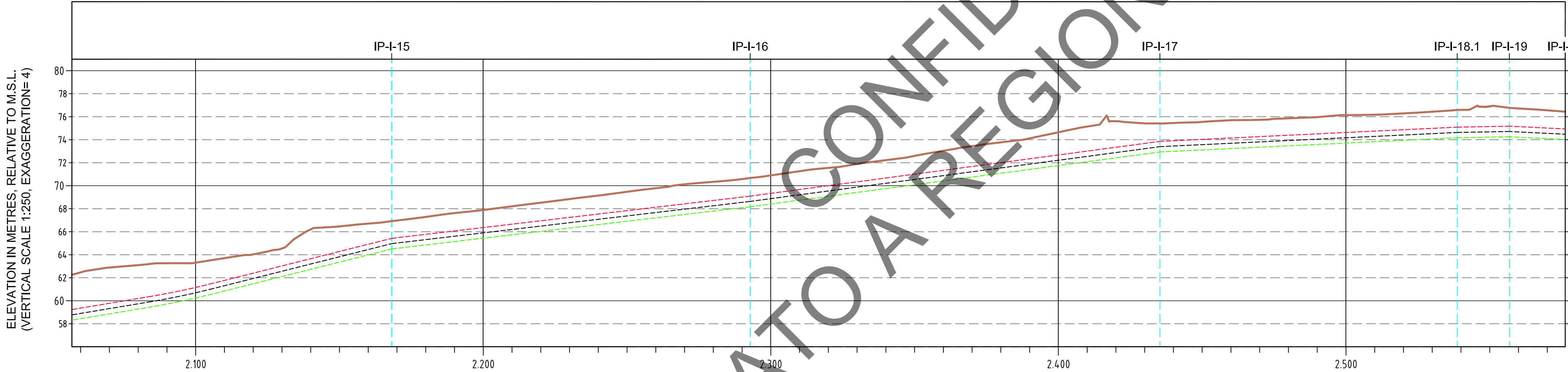
TRACK PLOT CHART AND INTERPRETATION



ELEVATION MAP



PROFILE



PIPELINE ENGINEERING DATA

	KP 2.045	KP 2.084	KP 2.105	KP 2.168	KP 2.293	KP 2.435	KP 2.539	KP 2.557	KP 2.576
PIPE OD / PIPE ID / WT / GRADE	812.8mm / 751.4mm / 30.7mm / DNV SAWL 485 FDU								
COATING TYPE / THICKNESS	EXTERNAL: 3-LAYER POLYPROPYLENE / 3mm INTERNAL: EPOXY COATING / 60µm								
FIELD JOINT COATING	INJECTION MOULDED POLYPROPYLENE OR POLYPROPYLENE HEAT SHRINK SLEEVE								
MARKER / CP BOX LOCATION	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>								
TRENCHING / BACKFILL REQUIREMENTS	TRENCHED & BACKFILLED, MIN. COVER 1.5m T.O.P., WITH WARNING RIBBON 0.5m ABOVE PIPE								
TOTAL BEND ANGLE	20.1°			18.2°			8.0°		
BEND RADIUS	5D			5D			5D		
ELASTIC BEND (RADIUS 1,000m)									

NOTES

- Geographic projection: WGS 1984 - UTM, zone 34 North
- Topographical data is from "topographical survey Otranto landfall", performed by GAS. Survey alignment charts, revision 0 - 18/12/2010

LEGEND

Track Plot Chart and Interpretation

flower-bed	step	bramble	groove
field	waterspout	tree	conduct
bramble	groove	orchard	tank
tree	conduct	kitchen garden	low wall
edge	well	rise	wall
orchard	tank	signboard	building
kitchen garden	courtyard	street lamp	fence
raise	low wall	pole	gate
signboard	wall	manhole	footpath
street lamp	building	trapdoor	carriageable
pole	fence	step	road
manhole	gate		overhead line
gas manhole	monument		
electric manhole	car park		
water manhole	footpath		
telephonic manhole	carriageable		
drain	road		
	benchmark		
	pit		

Onshore Pipeline with KP Marker

Terna Power Cable

Ground Level

Top of Pipe

Bottom of Trench

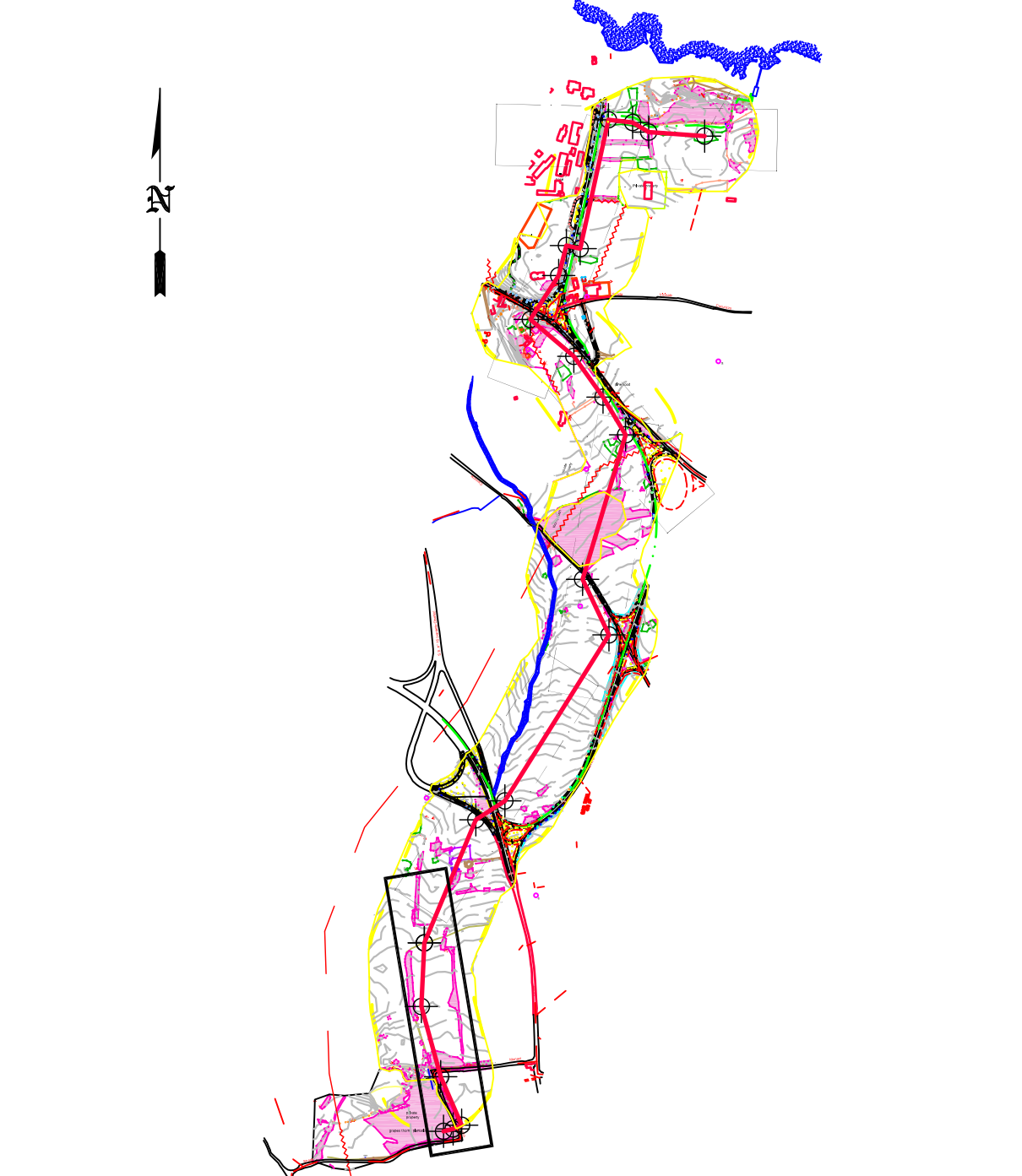
Reference Electrode

Anode Groundbed

Transformer Rectifier

Line Marker

KEY PLAN



REV	DATE	DESCRIPTION	DRWN	DSGN	ENGR	APPR	CLIENT
Y1	28 MAR 2019	APPROVED FOR USE	SM	SM	WHH	MVV	
Y0	08 MAR 2019	ISSUED FOR CLIENT REVIEW	SM	SM	WHH	MVV	
YA	06 MAR 2019	ISSUED FOR INTERNAL REVIEW	SM	SM	WHH		

INTECSEA
WorleyParsons Group

PROJECT: IGI POSEIDON - OFFSHORE SECTION UPDATE

CLIENT: IGI Poseidon

Project No.: 406010-00159
WBS Code: 1410 (FEED Deliverables)
EDISON Doc. No.:
DEPA Doc. No.:

IGI Poseidon

TITLE: ONSHORE ITALY
PIPELINE ALIGNMENT CHART
KP 2.045 to KP 2.576

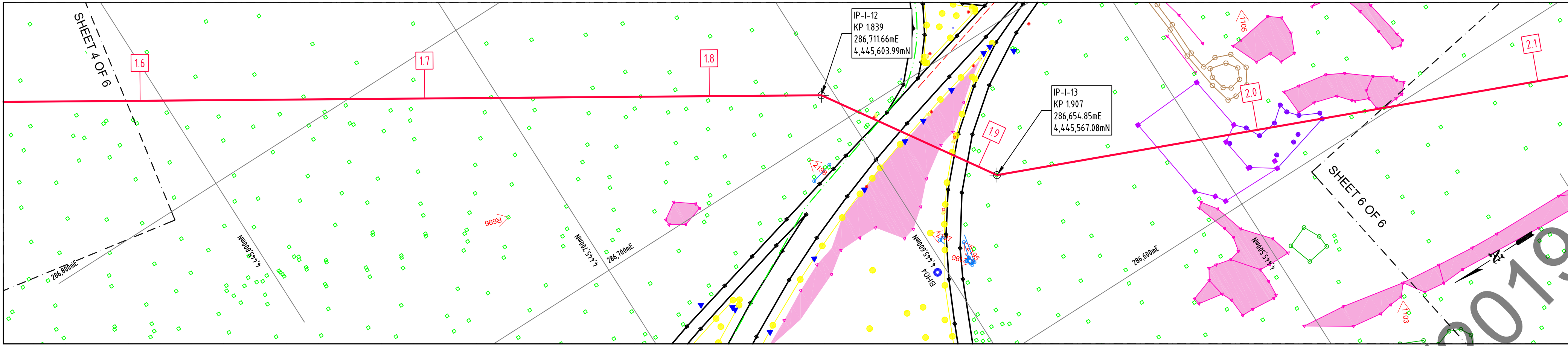
DRAWN BY: FAK
DATE: 28 DEC 2017
CHECKED BY: WHH
DATE: 28 MAR 2019
APPROVED BY: MVV
DATE: 28 MAR 2019

SHEET: 6 OF 6

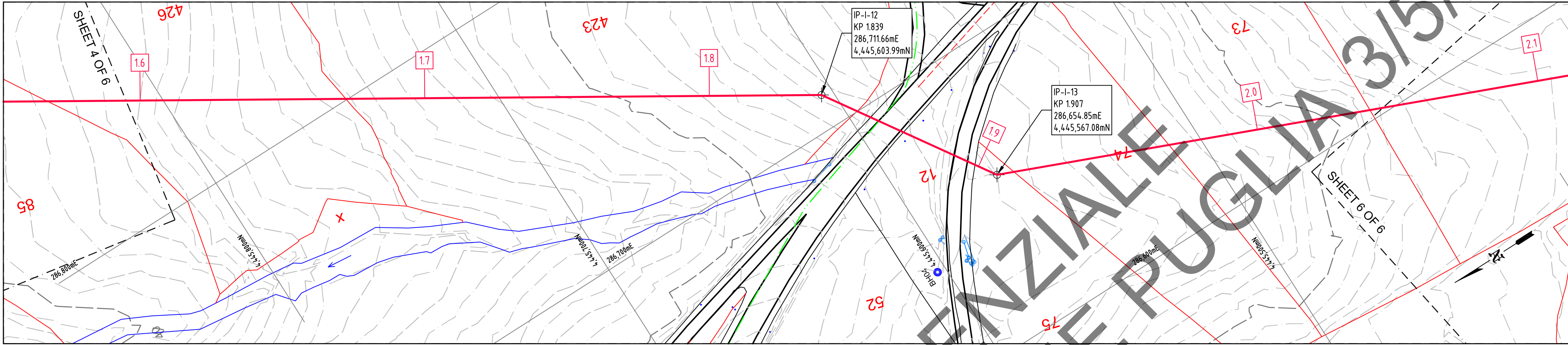
SCALE AT 'A1' SIZE: 1:1,000

PROJECT: IGI
CTR: 1410
AREA: 46
DISCIPLINE: PL
TYPE: DWG
NUMBER: 002
REVISION: Y1

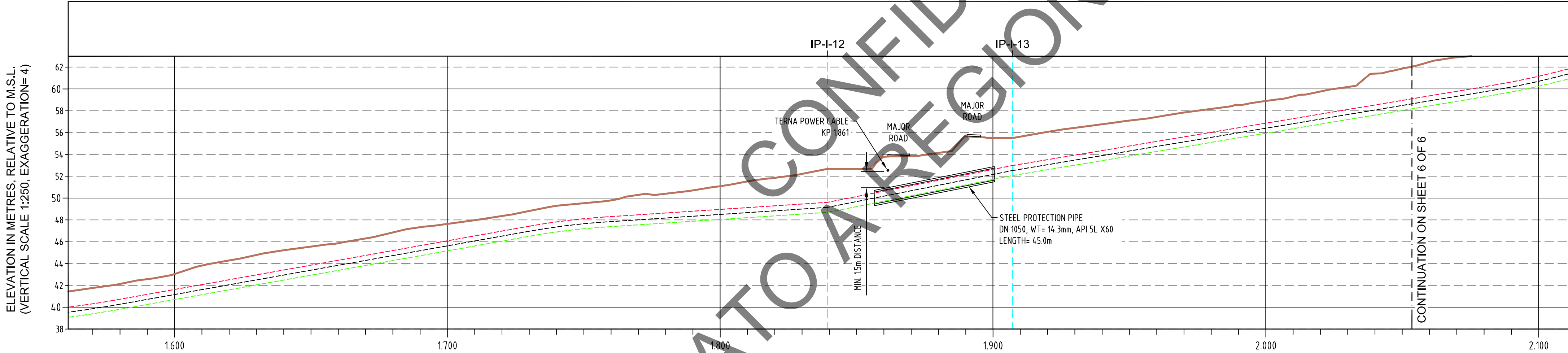
TRACK PLOT CHART AND INTERPRETATION



ELEVATION MAP



PROFILE



PIPELINE ENGINEERING DATA

PIPE OD / PIPE ID / WT / GRADE		812.8mm / 751.4mm / 30.7mm / DNV SAWL 485 FDU	
COATING TYPE / THICKNESS		EXTERNAL: 3-LAYER POLYPROPYLENE / 3mm INTERNAL: EPOXY COATING / 60µm	
FIELD JOINT COATING		INJECTION MOULDED POLYPROPYLENE OR POLYPROPYLENE HEAT SHRINK SLEEVE	
MARKER / CP BOX LOCATION		JACKED SECTION	
TRENCHING / BACKFILL REQUIREMENTS		TRENCHED & BACKFILLED, MIN. COVER 1.5m T.O.P., WITH WARNING RIBBON 0.5m ABOVE PIPE	
TOTAL BEND ANGLE		25.0°	
BEND RADIUS		5D	
ELASTIC BEND (RADIUS 1,000m)		5D	

NOTES

- Geographic projection: WGS 1984 - UTM, zone 34 North
- Topographical data is from "topographical survey Otranto landfill", performed by GAS. Survey alignment charts, revision 0 - 18/12/2010
- For crossing details reference is made to 'Crossing general arrangement drawing', draw. no.: IGI-406-46-PL-DWG-002

LEGEND

Track Plot Chart and Interpretation

flower-bed	step	bramble	groove
field	waterspout	tree	conduct
bramble	groove	orchard	tank
tree	conduct	kitchen garden	low wall
edge	well	rise	wall
orchard	tank	signboard	building
kitchen garden	courtyard	street lamp	fence
raise	low wall	pole	gate
signboard	wall	manhole	footpath
street lamp	building	trapdoor	carriageable
pole	fence	step	road
manhole	gate		overhead line
gas manhole	monument		
electric manhole	car park		
water manhole	footpath		
telephonic manhole	carriageable		
drain	road		
	benchmark		
	pit		

Onshore Pipeline with KP Marker

Terna Power Cable

Ground Level

Top of Pipe

Bottom of Trench

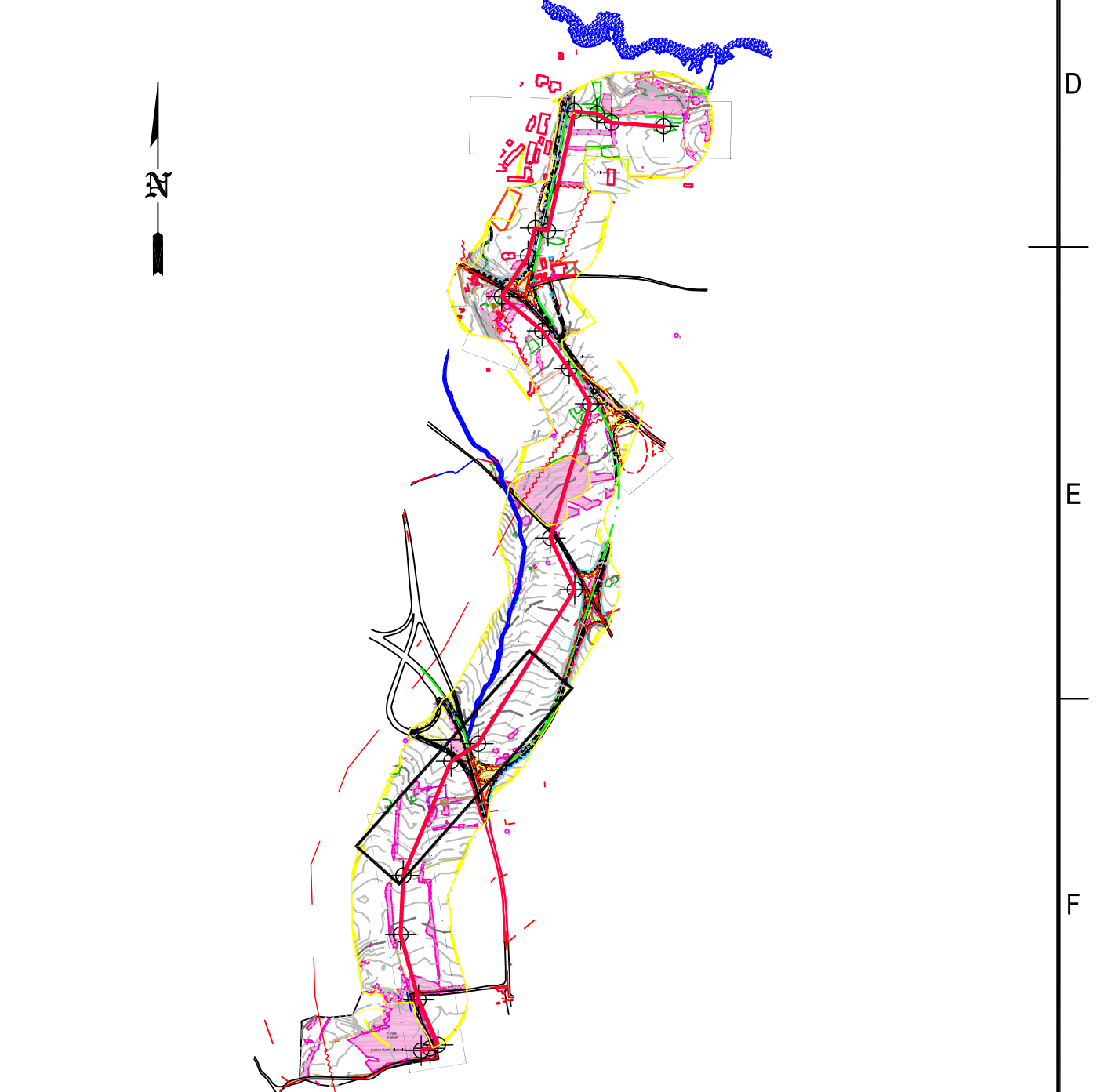
Reference Electrode

Anode Groundbed

Transformer Rectifier

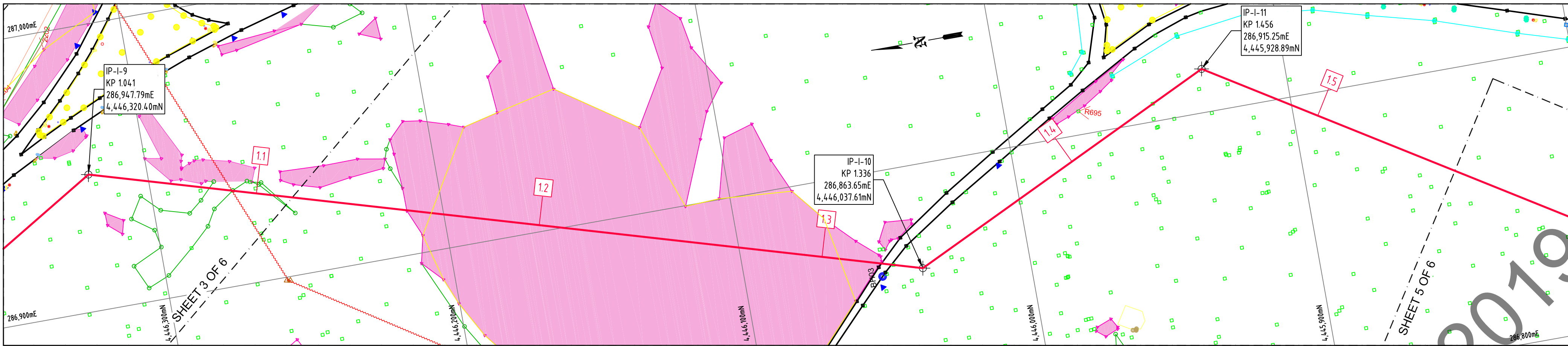
Line Marker

KEY PLAN

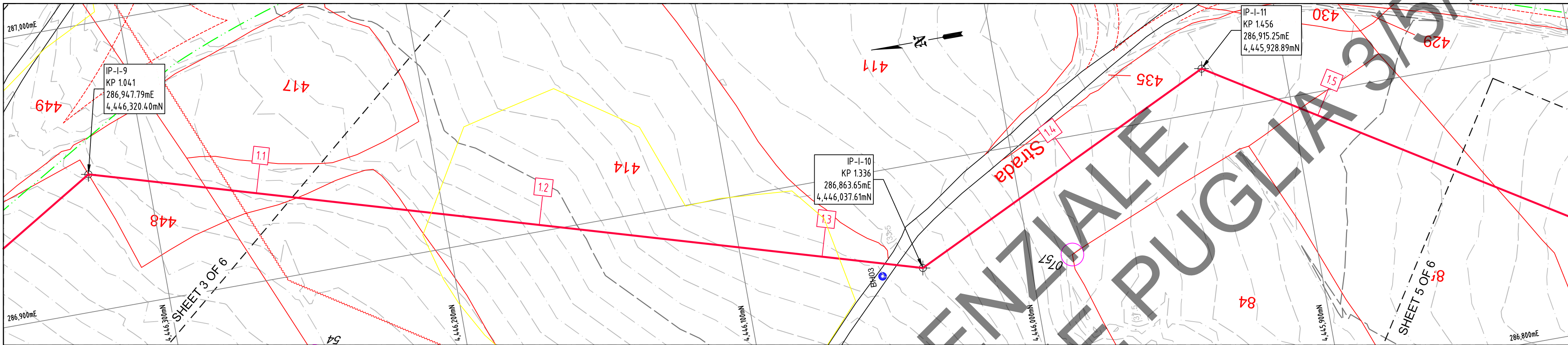


Y1	28 MAR 2019	APPROVED FOR USE	SM	SM	WHH	MVV			
Y0	08 MAR 2019	ISSUED FOR CLIENT REVIEW	SM	SM	WHH	MVV			
YA	06 MAR 2019	ISSUED FOR INTERNAL REVIEW	SM	SM	WHH				
REV	DATE	DESCRIPTION	DRWN	DSGN	ENGR	APPR	CLIENT		
		<div>PROJECT:</div> <div>IGI POSEIDON - OFFSHORE SECTION UPDATE</div>							
<div>CLIENT:</div> <div>IGI Poseidon</div>		Project No.:		406010-00159					
		WBS Code:		1410 (FEED Deliverables)					
		EDISON Doc. No.:							
		DEPA Doc. No.:							
<div>TITLE:</div> <div>ONSHORE ITALY</div> <div>PIPELINE ALIGNMENT CHART</div> <div>KP 1.552 to KP 2.045</div>									
DRAWN BY: FAK		DATE: 28 DEC 2017		CHECKED BY: WHH		DATE: 28 MAR 2019		APPROVED BY: MVV	
						DATE: 28 MAR 2019		SHEET: 5 OF 6	
SCALE AT 'A1' SIZE 1:1,000		PROJECT IGI	CTR 1410	AREA 46	DISCIPLINE PL	TYPE DWG	NUMBER 002	REVISION Y1	

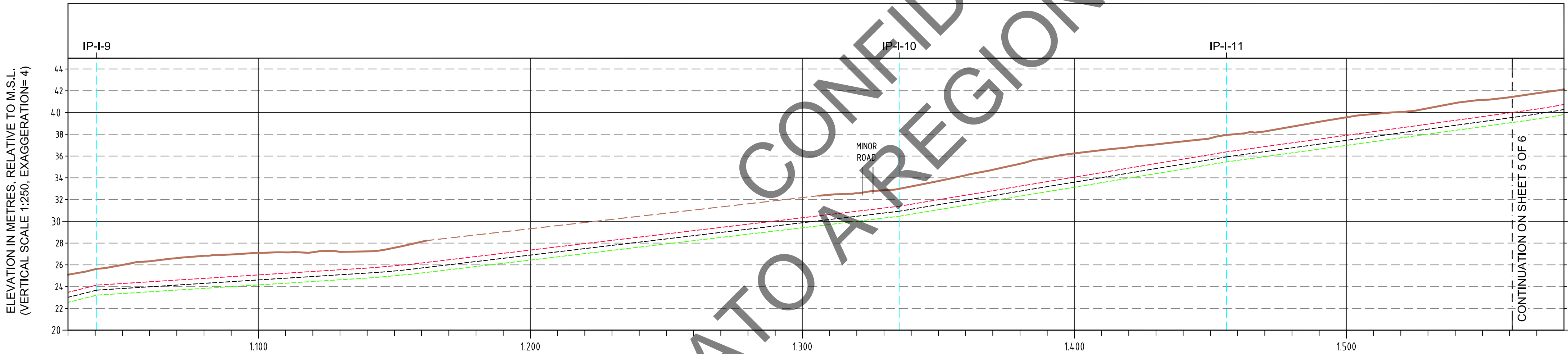
TRACK PLOT CHART AND INTERPRETATION



ELEVATION MAP



PROFILE



PIPELINE ENGINEERING DATA

	KP 1.041	KP 1.142	KP 1.156	KP 1.326	KP 1.336	KP 1.456	KP 1.552
PIPE OD / PIPE ID / WT / GRADE	812.8mm / 751.4mm / 30.7mm / DNV SAWL 485 FDU						CONTINUATION ON SHEET 5 OF 6
COATING TYPE / THICKNESS	EXTERNAL: 3-LAYER POLYPROPYLENE / 3mm INTERNAL: EPOXY COATING / 60µm						
FIELD JOINT COATING	INJECTION MOULDED POLYPROPYLENE OR POLYPROPYLENE HEAT SHRINK SLEEVE						
MARKER / CP BOX LOCATION	TRENCHED & BACKFILLED, MIN. COVER 1.5m T.O.P., WITH WARNING RIBBON 0.5m ABOVE PIPE						
TRENCHING / BACKFILL REQUIREMENTS							
TOTAL BEND ANGLE	47.6°			42.0°		57.5°	
BEND RADIUS	5D			5D		5D	
ELASTIC BEND (RADIUS 1,000m)							

NOTES

- Geographic projection: WGS 1984 - UTM, zone 34 North
- Topographical data is from "topographical survey Otranto landfall", performed by GAS. Survey alignment charts, revision 0 - 18/12/2010

LEGEND

Track Plot Chart and Interpretation

flower-bed	step	bramble	groove
field	waterspout	tree	conduct
bramble	groove	orchard	tank
tree	conduct	kitchen garden	low wall
edge	well	rise	wall
orchard	tank	signboard	building
kitchen garden	courtyard	street lamp	fence
raise	low wall	pole	gate
signboard	wall	manhole	footpath
street lamp	building	trapdoor	carriageable
pole	fence	step	road
manhole	gate		overhead line
gas manhole	monument		
electric manhole	car park		
water manhole	footpath		
telephonic manhole	carriageable		
drain	road		
	benchmark		
	pit		

Onshore Pipeline with KP Marker

Terna Power Cable

Ground Level

Top of Pipe

Bottom of Trench

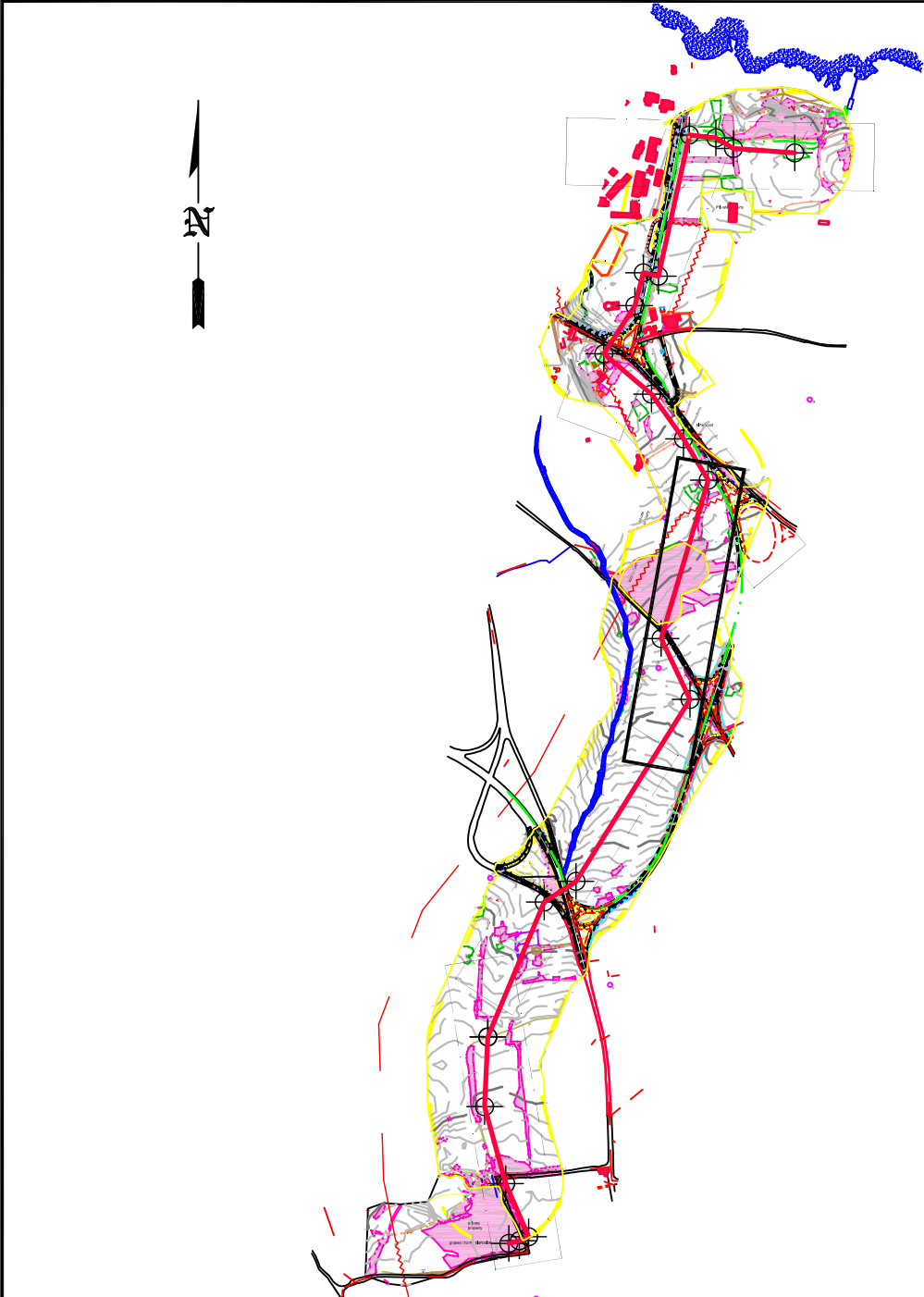
Reference Electrode



Anode Groundbed

Transformer Rectifier

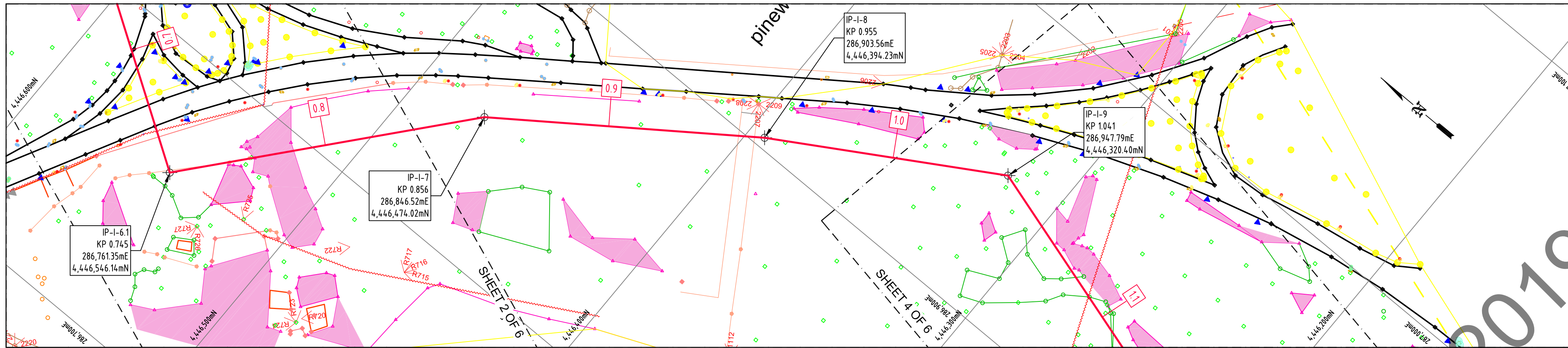
Line Marker

KEY PLAN

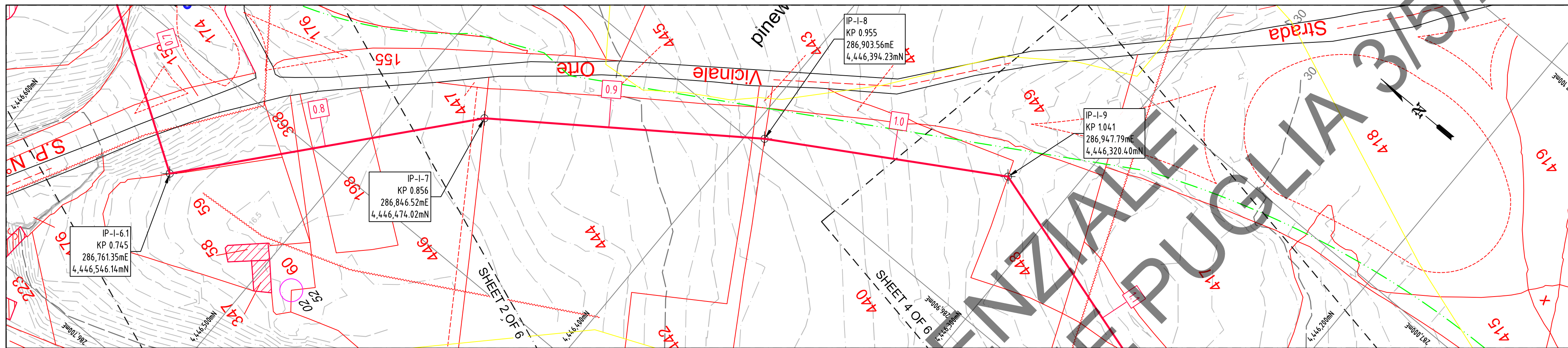


Y1	28 MAR 2019	APPROVED FOR USE	SM	SM	WHH	MVV			
Y0	08 MAR 2019	ISSUED FOR CLIENT REVIEW	SM	SM	WHH	MVV			
YA	06 MAR 2019	ISSUED FOR INTERNAL REVIEW	SM	SM	WHH				
REV	DATE	DESCRIPTION	DRWN	DSGN	ENGR	APPR	CLIENT		
		<div>PROJECT:</div> <div>IGI POSEIDON - OFFSHORE SECTION UPDATE</div>							
<div>CLIENT:</div> <div>IGI Poseidon</div>		Project No.:		406010-00159		 <div>IGI Poseidon</div>			
		WBS Code:		1410 (FEED Deliverables)					
		EDISON Doc. No.:							
		DEPA Doc. No.:							
<div>TITLE:</div> <div>ONSHORE ITALY</div> <div>PIPELINE ALIGNMENT CHART</div> <div>KP 1.041 to KP 1.552</div>									
DRAWN BY: FAK		DATE: 28 DEC 2017		CHECKED BY: WHH		DATE: 28 MAR 2019		APPROVED BY: MVV	
						DATE: 28 MAR 2019		SHEET: 4 OF 6	
SCALE AT 'A1' SIZE 1:1,000		PROJECT IGI		CTR 1410		AREA 46		DISCIPLINE PL	
						TYPE DWG		NUMBER 002	
								REVISION Y1	

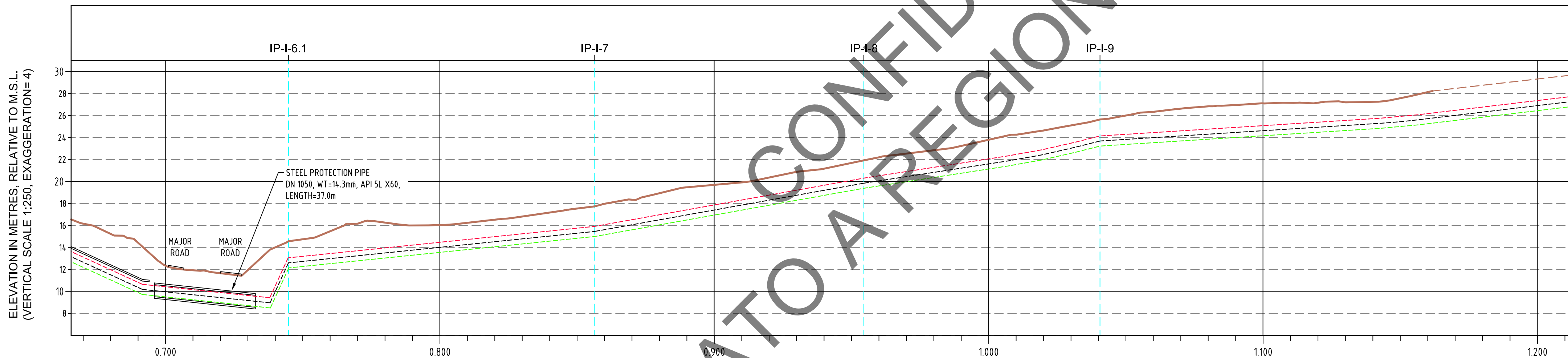
TRACK PLOT CHART AND INTERPRETATION



ELEVATION MAP



PROFILE



PIPELINE ENGINEERING DATA

	IP-I-6.1	IP-I-7	IP-I-8	IP-I-9
PIPE OD / PIPE ID / WT / GRADE	812.8mm / 751.4mm / 30.7mm / DNV SAWL 485 FDU			
COATING TYPE / THICKNESS	EXTERNAL: 3-LAYER POLYPROPYLENE / 3mm INTERNAL: EPOXY COATING / 60µm			
FIELD JOINT COATING	INJECTION MOULDED POLYPROPYLENE OR POLYPROPYLENE HEAT SHRINK SLEEVE			
MARKER / CP BOX LOCATION				
TRENCHING / BACKFILL REQUIREMENTS	TRENCHED & BACKFILLED, MIN. COVER 1.5m T.O.P., WITH WARNING RIBBON 0.5m ABOVE PIPE			
TOTAL BEND ANGLE	83.4°	14.2°	4.6°	47.6°
BEND RADIUS	5D	5D	5D	5D
ELASTIC BEND (RADIUS 1,000m)				

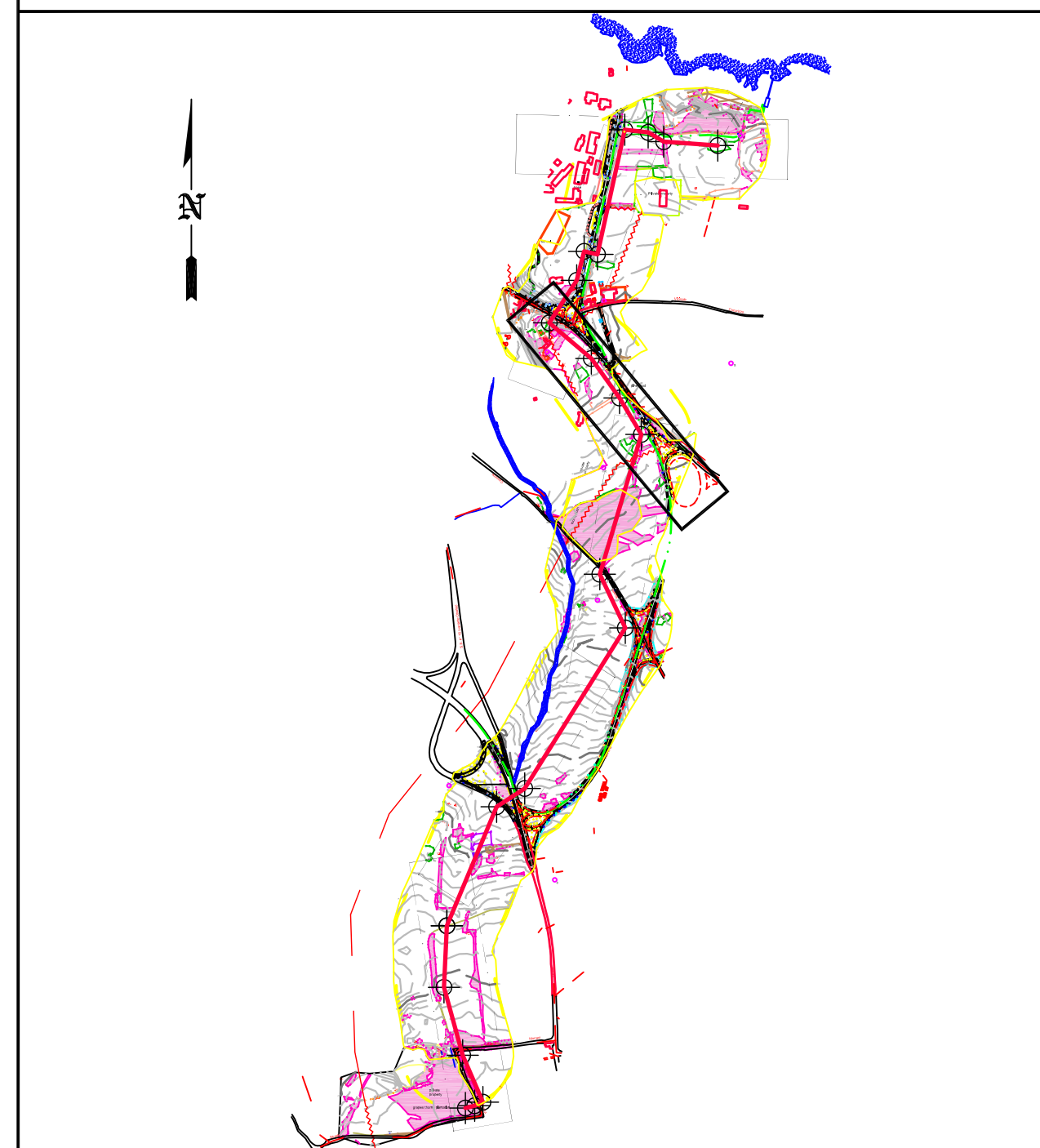
NOTES

- Geographic projection: WGS 1984 - UTM, zone 34 North
- Topographical data is from "topographical survey Otranto landfill", performed by GAS. Survey alignment charts, revision 0 - 18/12/2010
- For crossing details reference is made to 'Crossing general arrangement drawing', draw. no.: IGI-406-46-PL-DWG-002

LEGEND

Track Plot Chart and Interpretation			
flower-bed	step	bramble	groove
field	waterspout	tree	conduct
bramble	groove	orchard	tank
tree	conduct	kitchen garden	low wall
edge	well	rise	wall
orchard	tank	signboard	building
kitchen garden	courtyard	street lamp	fence
raise	low wall	pole	gate
signboard	wall	manhole	footpath
street lamp	building	trapdoor	carriageable
pole	fence	step	road
manhole	gate		overhead line
gas manhole	monument		
electric manhole	car park		
water manhole	footpath		
telephonic manhole	carriageable		
drain	road		
	benchmark		
	pit		

KEY PLAN

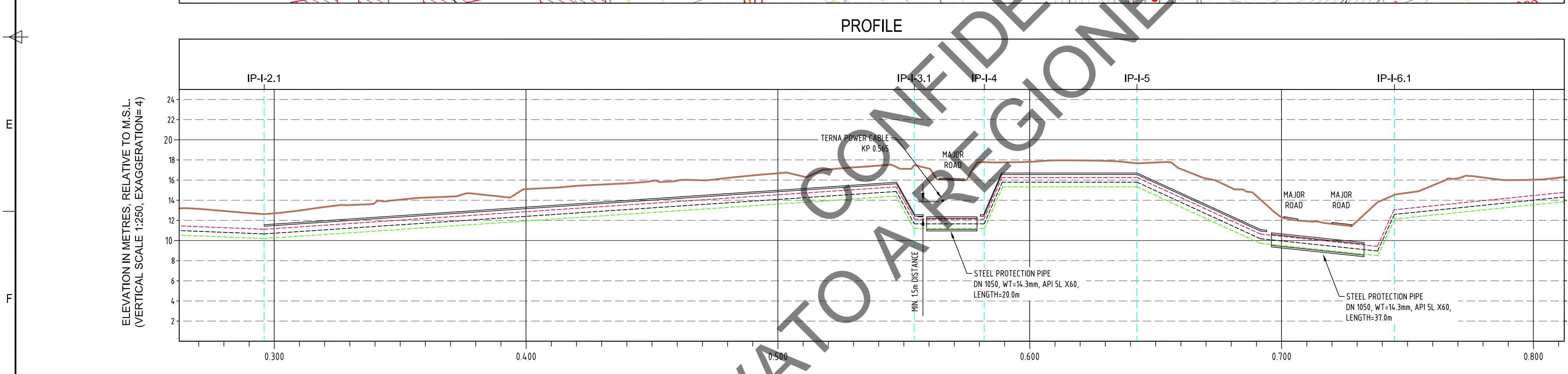
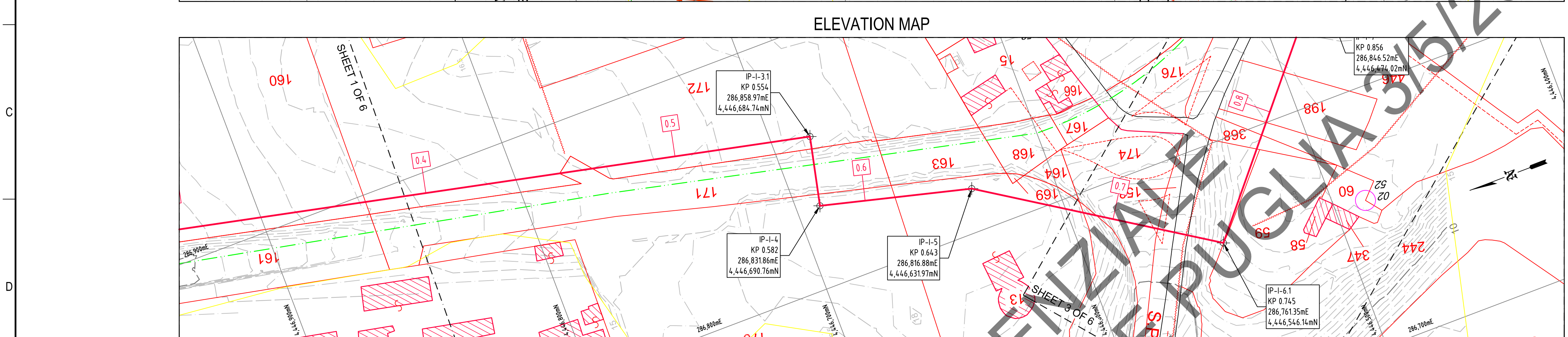
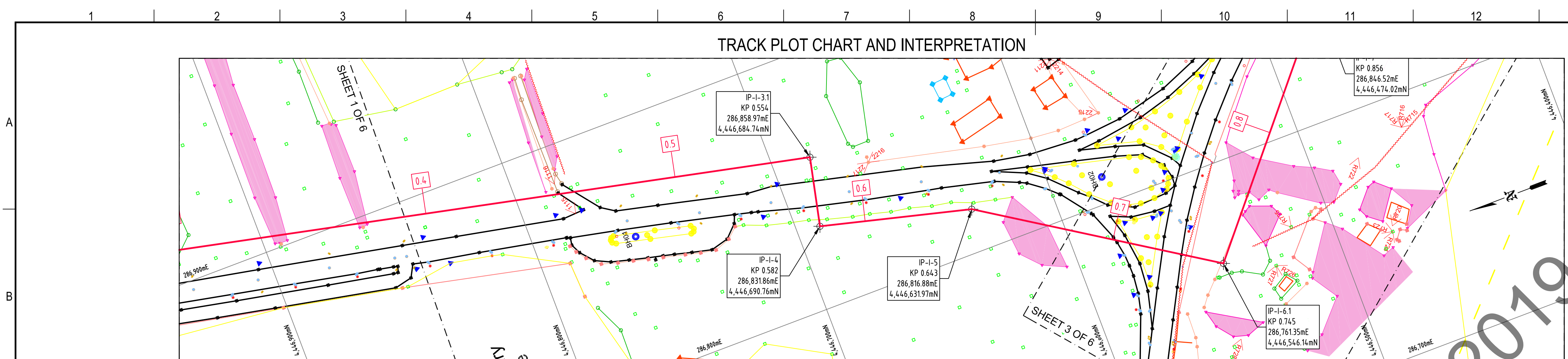


REV	DATE	DESCRIPTION	DRWN	DSGN	ENGR	APPR	CLIENT
Y1	28 MAR 2019	APPROVED FOR USE	SM	SM	WHH	MVV	
Y0	08 MAR 2019	ISSUED FOR CLIENT REVIEW	SM	SM	WHH	MVV	
YA	06 MAR 2019	ISSUED FOR INTERNAL REVIEW	SM	SM	WHH		

INTECSEA WorleyParsons Group		PROJECT: IGI POSEIDON - OFFSHORE SECTION UPDATE	
CLIENT: IGI Poseidon	Project No.: 406010-00159	WBS Code: 1410 (FEED Deliverables)	EDISON Doc. No.: DEPA Doc. No.:

TITLE: ONSHORE ITALY PIPELINE ALIGNMENT CHART KP 0.745 TO KP 1.041			
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DRAWN BY: FAK	DATE: 28 DEC 2017	CHECKED BY: WHH	DATE: 28 MAR 2019	APPROVED BY: MVV	DATE: 28 MAR 2019	SHEET: 3 OF 6
SCALE AT 'A1' SIZE: 1:1,000	PROJECT: IGI	CTR: 1410	AREA: 46	DISCIPLINE: PL	TYPE: DWG	NUMBER: 002
						REVISION: Y1



PIPELINE ENGINEERING DATA

(A) = STEEL PROTECTION PIPE DN 1050, WT=14.3mm, API 5L X60

	KP-0.296	KP 0.547	KP 0.554	KP 0.559	(A)	KP 0.579	KP 0.582	KP 0.589	KP 0.643	KP 0.692	KP 0.696	(A)	KP 0.733	KP 0.738	KP 0.745	CONTINUATION ON SHEET 3 OF 6
PIPE OD / PIPE ID / WT / GRADE		812.8mm / 751.4mm / 30.7mm / DNV SAWL 485 FDU														
COATING TYPE / THICKNESS		EXTERNAL: 3-LAYER POLYPROPYLENE / 3mm INTERNAL: EPOXY COATING / 60µm														
FIELD JOINT COATING		INJECTION MOULDED POLYPROPYLENE OR POLYPROPYLENE HEAT SHRINK SLEEVE														
MARKER / CP BOX LOCATION																
TRENCHING / BACKFILL REQUIREMENTS		TRENCHED & BACKFILLED, MIN. COVER 1.5m T.O.P., WITH PRECAST REINFORCED CONCRETE SLAB (1.2m WIDE, 0.15m THICK) 0.3m ABOVE PIPE & WARNING RIBBON 0.3m ABOVE SLAB														
TOTAL BEND ANGLE	84.0°	25.0°	90.1°	88.5°	30.0°	19.7°	5.0°	30.0°	83.4°							
BEND RADIUS	5D	5D	5D	5D	5D	5D	5D	5D	5D							
ELASTIC BEND (RADIUS 1,000m)																

NOTES

- Geographic projection: WGS 1984 - UTM, zone 34 North
- Topographical data is from "topographical survey Otranto landfill", performed by GAS. Survey alignment charts, revision 0 - 18/12/2010
- For crossing details reference is made to 'Crossing general arrangement drawing', draw. no.: IGI-406-46-PL-DWG-002

LEGEND

Track Plot Chart and Interpretation

- flower-bed
- field
- bramble
- tree
- edge
- orchard
- kitchen garden
- raise
- signboard
- street lamp
- pole
- manhole
- gas manhole
- electric manhole
- water manhole
- telephonic manhole
- drain
- step
- waterspout
- groove
- conduct
- well
- tank
- courtyard
- low wall
- wall
- fence
- gate
- monument
- car park
- footpath
- carriageable
- road
- benchmark
- pit
- bramble
- tree
- orchard
- kitchen garden
- rise
- signboard
- street lamp
- pole
- manhole
- trapdoor
- step
- groove
- conduct
- tank
- low wall
- wall
- fence
- gate
- footpath
- carriageable
- road
- overhead line

Onshore Pipeline with KP Marker

Terna Power Cable

Ground Level

Top of Pipe

Bottom of Trench

Reference Electrode

Anode Groundbed

Transformer Rectifier

Line Marker

KEY PLAN

IGI Poseidon

ONSHORE ITALY
PIPELINE ALIGNMENT CHART
KP 0.296 to KP 0.745

WorleyParsons Group

IGI Poseidon

PROJECT: IGI POSEIDON - OFFSHORE SECTION UPDATE

CLIENT: IGI Poseidon

Project No.: 406010-00159

WBS Code: 1410 (FEED Deliverables)

EDISON Doc. No.:

DEPA Doc. No.:

IGI Poseidon

DATE: 28 MAR 2019

APPROVED FOR USE

SM

SM

WHH

MVV

DATE: 08 MAR 2019

ISSUED FOR CLIENT REVIEW

SM

SM

WHH

MVV

DATE: 06 MAR 2019

ISSUED FOR INTERNAL REVIEW

SM

SM

WHH

MVV

REV

DATE

DESCRIPTION

DRWN

DSGN

ENGR

APPR

CLIENT

SCALE AT 'A1' SIZE
1:1,000

PROJECT
IGI

CTR
1410

AREA
46

DISCIPLINE
PL

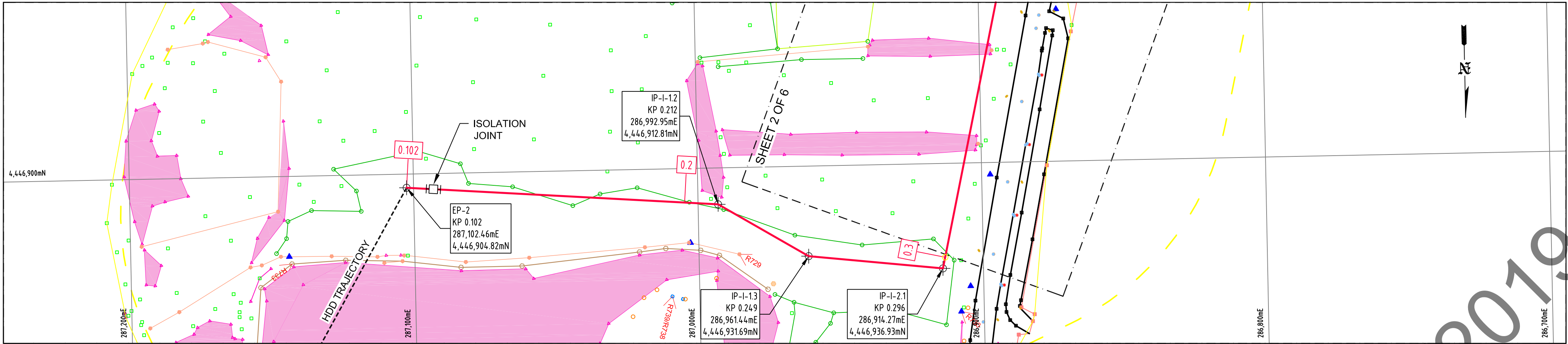
TYPE
DWG

NUMBER
002

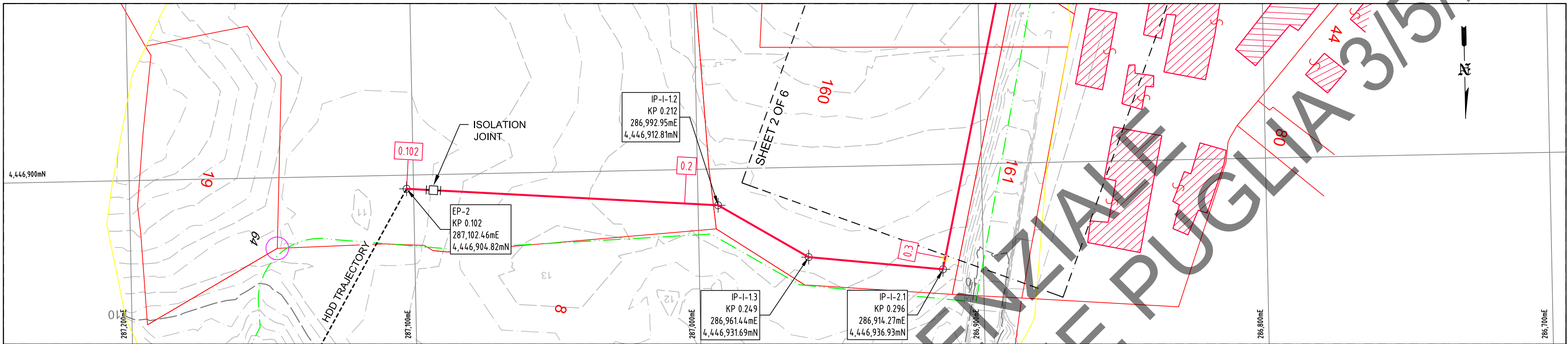
REVISION
Y1

SHEET: 2 OF 6

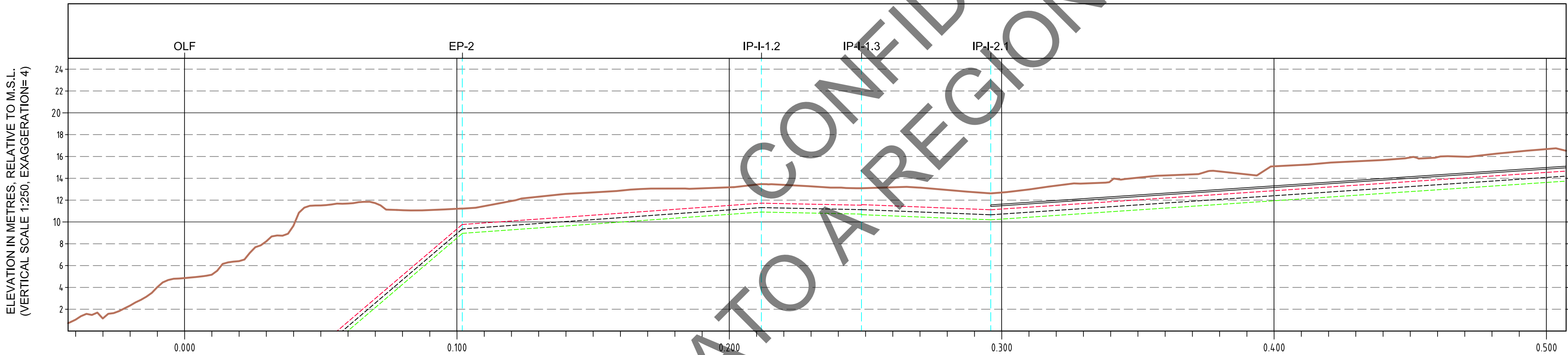
TRACK PLOT CHART AND INTERPRETATION



ELEVATION MAP



PROFILE



PIPELINE ENGINEERING DATA

	KP 0.102	KP 0.212	KP 0.249	KP 0.296
PIPE OD / PIPE ID / WT / GRADE	812.8mm / 751.4mm / 30.7mm / DNV SAWL 485 FDU			
COATING TYPE / THICKNESS	EXTERNAL: 3-LAYER POLYPROPYLENE / 3mm INTERNAL: EPOXY COATING / 60µm			
FIELD JOINT COATING	INJECTION MOULDED POLYPROPYLENE OR POLYPROPYLENE HEAT SHRINK SLEEVE			
MARKER / CP BOX LOCATION	IRE			
TRENCHING / BACKFILL REQUIREMENTS	TRENCHED & BACKFILLED, MIN. COVER 1.5m T.O.P., WITH WARNING RIBBON 0.5m ABOVE PIPELINE			
TOTAL BEND ANGLE	64.9°	26.8°	24.6°	84.0°
BEND RADIUS	5D	5D	5D	5D
ELASTIC BEND (RADIUS 1,000m)				

NOTES

- Geographic projection: WGS 1984 - UTM, zone 34 North
- Topographical data is from "topographical survey Otranto landfall", performed by GAS. Survey alignment charts, revision 0 - 18/12/2010
- For details of the Italian shore crossing reference is made to IGI-1314-30-PL-DWG-002

LEGEND

Track Plot Chart and Interpretation

flower-bed	step	bramble	groove
field	waterspout	tree	conduct
bramble	groove	orchard	tank
tree	conduct	kitchen garden	low wall
edge	well	rise	wall
orchard	tank	signboard	building
kitchen garden	courtyard	street lamp	fence
raise	low wall	pole	gate
signboard	wall	manhole	footpath
street lamp	building	trapdoor	carriageable
pole	fence	step	road
manhole	gate		overhead line
gas manhole	monument		
electric manhole	car park		
water manhole	footpath		
telephonic manhole	carriageable		
drain	road		
	benchmark		
	pit		

Onshore Pipeline with KP Marker

Terna Power Cable

Ground Level

Top of Pipe

Bottom of Trench

Reference Electrode

Anode Groundbed

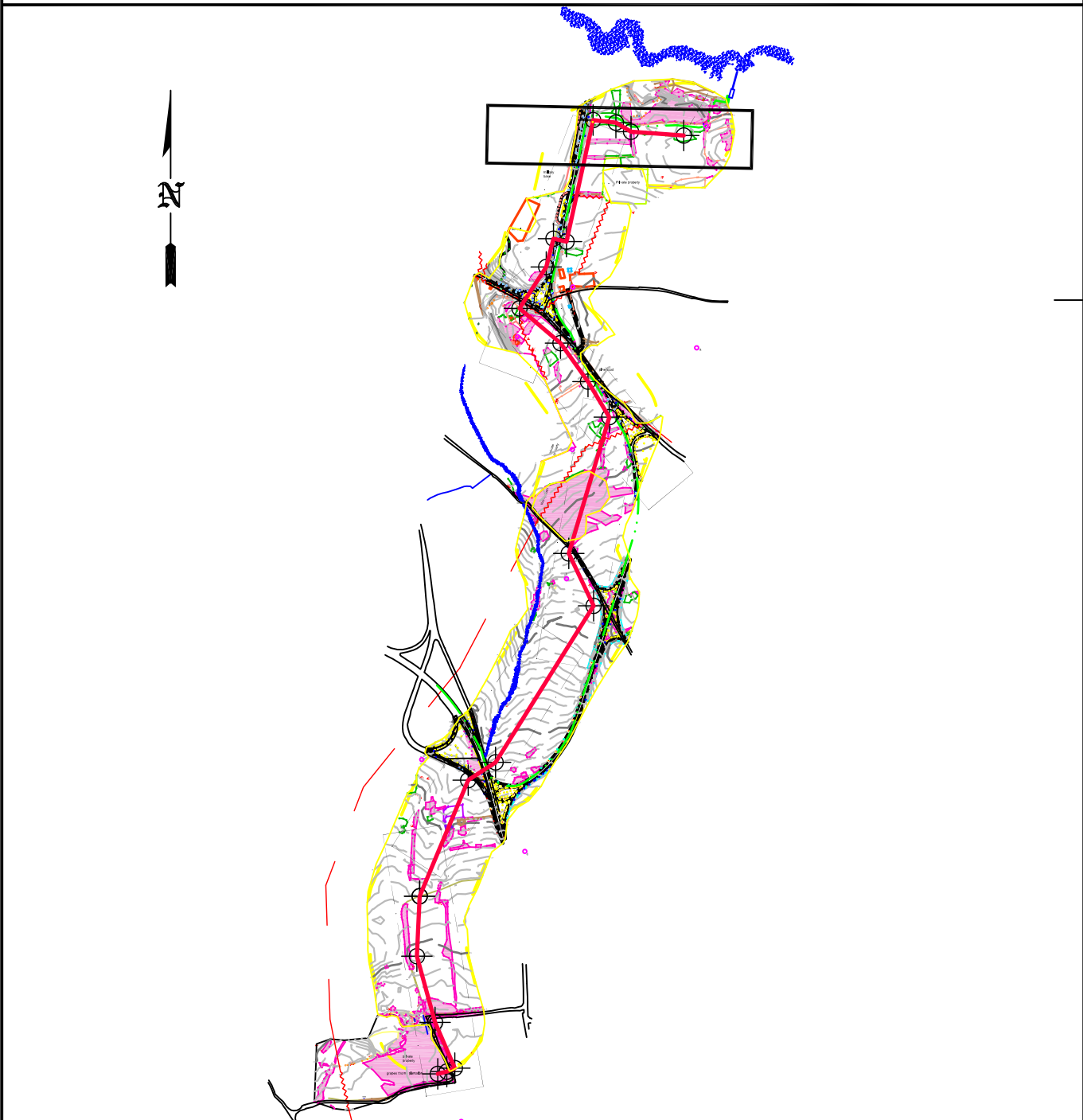
Transformer Rectifier

Line Marker

Borehole

photo

KEY PLAN



REV	DATE	DESCRIPTION	DRWN	DSGN	ENGR	APPR	CLIENT
Y1	28 MAR 2019	APPROVED FOR USE	SM	SM	WHH	MVV	
Y0	08 MAR 2019	ISSUED FOR CLIENT REVIEW	SM	SM	WHH	MVV	
YA	06 MAR 2019	ISSUED FOR INTERNAL REVIEW	SM	SM	WHH		

INTECSEA
WorleyParsons Group

PROJECT: IGI POSEIDON - OFFSHORE SECTION UPDATE

CLIENT: IGI Poseidon

Project No.: 406010-00159
WBS Code: 1410 (FEED Deliverables)
EDISON Doc. No.:
DEPA Doc. No.:

TITLE: ONSHORE ITALY
PIPELINE ALIGNMENT CHART
KP 0.102 to KP 0.296

DRAWN BY: FAK
DATE: 28 DEC 2017
CHECKED BY: WHH
DATE: 28 MAR 2019
APPROVED BY: MVV
DATE: 28 MAR 2019

SHEET: 1 OF 6

SCALE AT 'A1' SIZE: 1:1,000

PROJECT: IGI
CTR: 1410
AREA: 46
DISCIPLINE: PL
TYPE: DWG
NUMBER: 002
REVISION: Y1