

OWNER / (LEASEHOLDER)						Cadastral Municipality: Wolvega section J nr. 105 51.2.e Kooweg 23 8488 AP Odehoitwoide				Cadastral Municipality: Wolvega section J nr. 206 Gemeente Weststellingwerf Griffoenpark 1 8471 KR Wolvega				Cadastral Municipality: Wolvega section J nr. 213 51.2.e Kooweg 23 8488 AP Odehoitwoide				Cadastral Municipality: Wolvega section J nr. 214 51.2.e Kooweg 23 8488 AP Odehoitwoide																																																																																																										
TOPOGRAPHIC AND CADASTRAL SITUATION																																																																																																																												
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PIPELINE DATA		<table><tr><td>BENDS IN DEGREES AND RADIUS</td><td colspan="2">horizontal elastic</td><td colspan="2">R=400 V=12°</td><td colspan="2">vertical elastic</td><td colspan="2">Horizontal Directional Drilling</td><td colspan="2">vertical elastic</td><td colspan="2">R=400 V=12°</td><td colspan="2">horizontal elastic</td><td colspan="2">vertical elastic</td><td colspan="2">V=10° V=10° R=400</td><td colspan="2">vertical elastic</td></tr><tr><td>MINIMUM COVER; TOP OF PIPE (m)</td><td colspan="2">1,50</td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2">1,50</td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2">1,00</td><td colspan="2">1,50</td></tr><tr><td>N.A.P. ELEVATION TOP OF PIPE (m)</td><td colspan="2">-1,88</td><td colspan="2">-1,88</td><td colspan="2">-10,00</td><td colspan="2">-10,00</td><td colspan="2">-3,07</td><td colspan="2">-3,39</td><td colspan="2">-3,39</td><td colspan="2">-4,37</td><td colspan="2">-3,45</td><td colspan="2">-3,22</td></tr><tr><td>EXISTING CABLES AND PIPELINES</td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td></tr><tr><td>TECHNICAL DATA</td><td colspan="2">10" (273.0 mm) STEEL L360NB; COATING PE (UITW.) WT 11.0 mm</td><td colspan="2"></td><td colspan="2">10" (273.0 mm) STEEL L360NB; COATING PP (UITW.) WT 11.0 mm</td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2">10" (273.0 mm) STEEL L360NB; COATING PE (UITW.) WT 11.0 mm</td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td></tr></table>																		BENDS IN DEGREES AND RADIUS	horizontal elastic		R=400 V=12°		vertical elastic		Horizontal Directional Drilling		vertical elastic		R=400 V=12°		horizontal elastic		vertical elastic		V=10° V=10° R=400		vertical elastic		MINIMUM COVER; TOP OF PIPE (m)	1,50								1,50								1,00		1,50		N.A.P. ELEVATION TOP OF PIPE (m)	-1,88		-1,88		-10,00		-10,00		-3,07		-3,39		-3,39		-4,37		-3,45		-3,22		EXISTING CABLES AND PIPELINES																					TECHNICAL DATA	10" (273.0 mm) STEEL L360NB; COATING PE (UITW.) WT 11.0 mm				10" (273.0 mm) STEEL L360NB; COATING PP (UITW.) WT 11.0 mm								10" (273.0 mm) STEEL L360NB; COATING PE (UITW.) WT 11.0 mm							
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EXISTING CABLES & PIPELINES		REFERENCE DRAWING		DETAIL		NOTES		DESIGN DATA		VERMILION ENERGY		PROJECT: 10" GAS PIPELINE WELLSITE ROTTUM - JUNCTION ROTTUM ROUTE MAP 02																																																																																																																
LABEL	PIPELINE NR.	DIAM.	MATERIAL	PRODUCT	OWNER	DRAWING NR.	DESCRIPTION	1. TOPOGRAPHIC SITUATION INCL. HEIGHT FIGURES ARE BASED ON AVAILABLE INFORMATION PER MARCH 2015		7. UNBENT END (TANGENT) AT EACH END OF THE PIPE IS 150m		MEDIUM MATERIAL		GAS																																																																																																														
3	-	125	AC	Water	Vitens	-	OVERALL MAP	2. ALL DIMENSIONS ARE INDICATIVE, AND SHALL BE VERIFIED BY CONSTRUCTION CONTRACTOR PRIOR TO START OF WORKS		8. EXACT LOCATION OF EXISTING PIPELINES AND CABLES SHOULD BE VERIFIED BY CONSTRUCTION CONTRACTOR		EXTERNAL DIAMETER (Dw)		STEEL L360NB																																																																																																														
5d	-	-	-	Mid Voltage	Liander	-	-	3. PROFILE GENERATED ON POINTS OF INTERSECTION				WALL THICKNESS (t)		Ø 273.00 mm																																																																																																														
7a	-	-	-	Low pressure Gas	Enexis	-	-	4. PI = POINT OF INTERSECTION				DESIGN PRESSURE (p)		11.00 mm																																																																																																														
16	-	-	-	Data	KPN	-	-	5. ELBOWS:				TEST PRESSURE (p)		89 bar																																																																																																														
-	-	-	-	-	-	-	-	- ELASTIC BEND: RMIN = 10000 273.00 m				DESIGN TEMPERATURE (T)		ACCORDING TO NEN-3650/3651																																																																																																														
-	-	-	-	-	-	-	-	- COLD BENDED: R = 400 10.92 m				ANTI CORROSION MEASURES		-20°C / +50°C																																																																																																														
-	-	-	-	-	-	-	-	- HOT BENDED: R = 10 / 50 2.73 m / 1.37 m				CORROSION ALLOWANCE		PE/PP COATING AND CATHODIC PROTECTION to be determined																																																																																																														
-	-	-	-	-	-	-	-	6. MAX. 400 ELBOW RADIUS = 68,0° (PIPELENGTH 16m)																																																																																																																				
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