OWNER / (LEASEHOLDER)

Cadastral Municipality: Wolvega section J nr. 214
5.1.2.e
Kooiweg 23
8488 AP Oldeholtwolde

Cadastral Municipality: Wolvega section J nr. 216
5.1.2.e
Kooiweg 23
8488 AP Oldeholtwolde

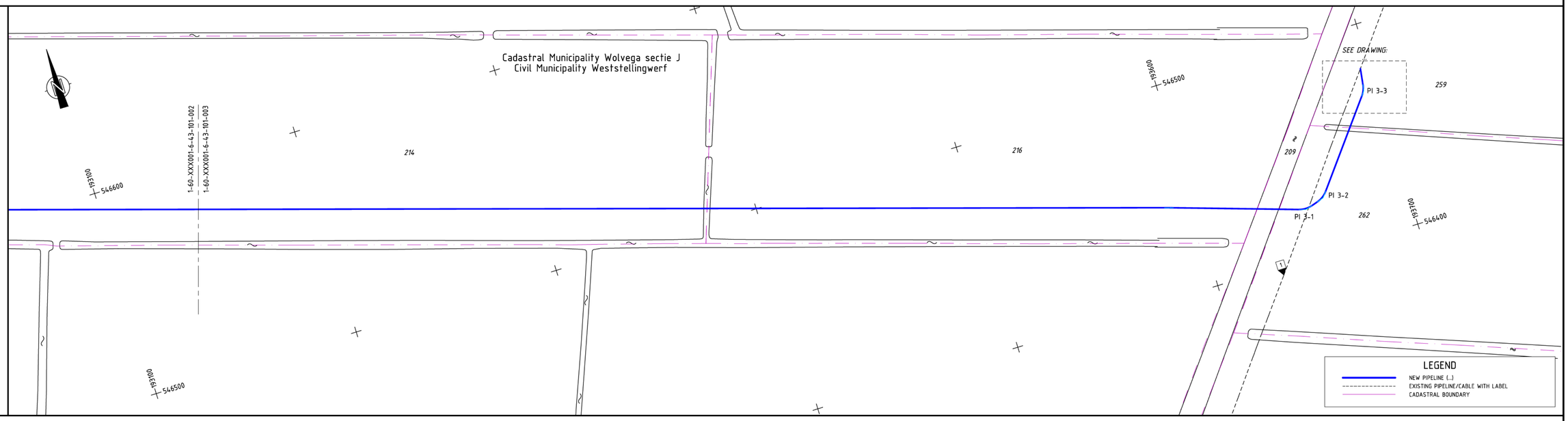
Cadastral Municipality: Wolvega section J nr. 209
Weterskipfryslân
Harlingerstraatweg 113
8914 AZ Leeuwarden

Cadastral Municipality: Wolvega section J nr. 262
ARS Nederland Vastgoed Maatschappij N.V.
Archimedeslaan 10
3584 BA Utrecht

Cadastral Municipality: Wolvega section J nr. 259
ARS Nederland Vastgoed Maatschappij N.V.
Archimedeslaan 10
3584 BA Utrecht

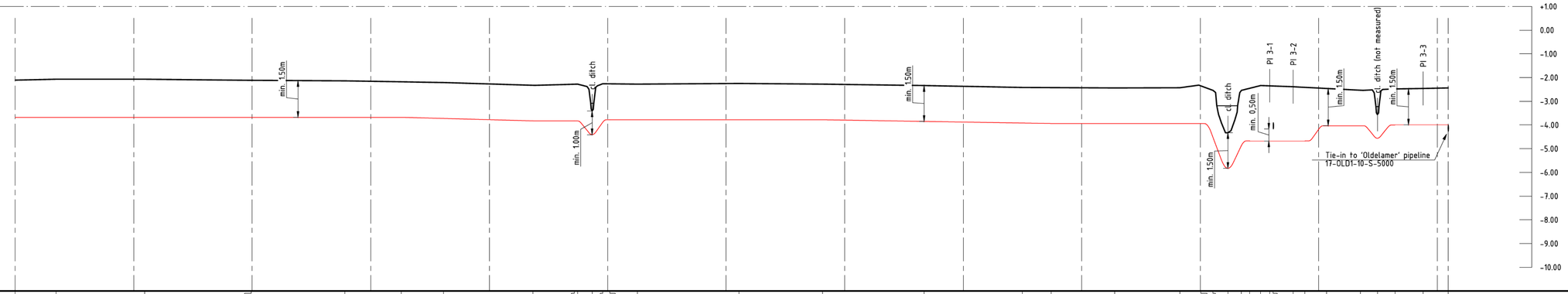
TOPOGRAPHIC AND CADASTRAL SITUATION

TOPOGRAPHIC SITUATION
SCALE 1:1000



PROFILE

PROFILE
HORIZONTAL SCALE: 1:1000
VERTICAL SCALE: 1:100



HORIZONTAL DISTANCE TO MATCHLINE (m): 0.0, 17.2, 50, 54.6, 99.5, 100, 139.1, 150, 162.9, 180.7, 200, 218.5, 235.8, 237.3, 243.4, 245.7, 250, 253.0, 262.5, 300, 305.4, 340.6, 350, 383.5, 400, 424.9, 437.1, 450, 463.9, 491.4, 500, 503.3, 505.4, 511.7, 517.4, 520.9, 525.5, 529.1, 530.7, 539.3, 544.2, 550, 553.3, 567.6, 574.8, 582.2, 594.1, 600, 604.7

GRADE ELEVATION IN N.A.P. (m): -2.11, -2.07, -2.07, -2.12, -2.14, -2.07, -2.21, -2.33, -2.28, -2.28, -3.41, -2.26, -2.26, -2.28, -2.25, -2.28, -2.34, -2.42, -2.43, -2.44, -2.43, -2.35, -2.54, -4.33, -2.54, -2.45, -2.34, -2.35, -2.39, -2.42, -2.46, -2.53, -3.56, -2.48, -2.46, -2.44

PIPELINE DATA

BENDS IN DEGREES AND RADIUS: vertical elastic; R=40D V=7° V=15° V=8°; vertical elastic; V=12° V=27° V=15° R=40D; R=40D V=8° R=40D R=40D H=35° H=35°; V=7° V=14° V=7° R=40D; R=40D H=30°

MINIMUM COVER; TOP OF PIPE (m): 1,50; 1,00; 1,50; 1,50; 1,50; 1,00; 1,50

N.A.P. ELEVATION TOP OF PIPE (m): -3.68, -3.68, -3.83, -3.83, -4.41, -3.78, -3.78, -3.94, -3.94, -5.83, -4.67, -4.67, -4.03, -4.03, -4.56, -4.00, -4.00

EXISTING CABLES AND PIPELINES: 1 HP Gas

TECHNICAL DATA: 10" (273.0 mm) STEEL L360NB; COATING PE (UITW.) WT 11.0 mm

EXISTING CABLES & PIPELINES

LABEL	PIPELINE NR.	DIAM.	MATERIAL	PRODUCT	OWNER
1	17-OLD1-10-S-5000	10"	Steel	Gas High Pressure	Vermilion
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-

REFERENCE DRAWING

DRAWING NR.	DESCRIPTION
-	OVERALL MAP
-	TIE-IN MAP 'JUNCTION ROTTUM'
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-

DETAIL

-

NOTES

1. TOPOGRAPHIC SITUATION INCL. HEIGHT FIGURES ARE BASED ON AVAILABLE INFORMATION PER MARCH. 2015
2. ALL DIMENSIONS ARE INDICATIVE, AND SHALL BE VERIFIED BY CONSTRUCTION CONTRACTOR PRIOR TO START OF WORKS
3. PROFILE GENERATED ON POINTS OF INTERSECTION
4. PI = POINT OF INTERSECTION
5. ELBOWS:
   - ELASTIC BEND: RMIN = 1000D 273,00 m
   - COLD BENDED: R = 40D 10,92 m
   - HOT BENDED: R = 10 / 5D 2,73 m / 1,137 m
6. MAX. 40D ELBOW RADIUS = 68,0° (PIPELENGTH 16m)
7. UNBENT END (TANGENT) AT EACH END OF THE PIPE IS 1,50m
8. EXACT LOCATION OF EXISTING PIPELINES AND CABLES SHOULD BE VERIFIED BY CONSTRUCTION CONTRACTOR

DESIGN DATA

MEDIUM	GAS
MATERIAL	STEEL L360NB
EXTERNAL DIAMETER (Du)	Ø 273,00 mm
WALL THICKNESS (t)	11,00 mm
DESIGN PRESSURE (pi)	89 bar
TEST PRESSURE (pi)	ACCORDING TO NEN-3650/3651
DESIGN TEMPERATURE (T)	-20°C / +50°C
ANTI CORROSION MEASURES	PE/PP COATING AND CATHODIC PROTECTION
CORROSION ALLOWANCE	to be determined

ISSUE	DATE	STATUS	DESCRIPTION	DRAFT	APPR.
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
A0	19-08-2016	DRAFT	FIRST ISSUE	5.1.2.e	

VERMILION ENERGY

CLIENT: VERMILION OIL & GAS NETHERLANDS B.V.

anteagroup

ENGINEERED BY: ANTEA GROUP

0 10 20 40 60 80 100m

SCALE 1:1000 SIZE A1

PROJECT: 10" GAS PIPELINE WELLSITE ROTTUM - JUNCTION ROTTUM

TITLE: ROUTE MAP 03

PROJECT NR. 11191-402432 PIPELINE NR. ...

DRAWING NR. – REV. A0 SHEET 003 OF 003

R:\004000001\0042432\Bodem\Acad\Routekaarten\Rottum\Rottum - Routemap 03 - Rev A0.dwg