

Bijlage 5 Lengteprofielen



80	Portaal RLL380 P/0 portaal_380kv_dub sta=0.00 ht=19.55 ele=4.00 orient angle=16.00	D bel	1002a zwm6e400 sta=218.33 ht=59.30 e	0.pol 3 ele=0.70	1003 zww6s400 sta=621.97 ht=64.90 e	+51003.pol le=0.25				1004 zww6h sta=10 ht=64.3	k400+5.pol 21.54 30 ele=0.60			1005 zww6s400+5.pol sta=1421.53 ht=64.90 ele=0.87	80
70					403.6	64	.20	64.20	399	9.6, 395.2	64.30	64.30	400.0	64.20	70
60	218.3	59.30	59.30			54	.20	54.20			54.30	54.30		54.20	60
50 40		49.30 39.10	49.30 39.10			44	.00	44.00		+	44.10	44.10		44.00	40
30		28.90	28.90				.80	33.80			33.90	33.90		33.80	30
	9.45	20.50	23.30		+	28	.20	28.20			28.30	28.30		26.20	20
10										+					10
-10	100 - 0	200	200	300	400	500	600	600	700	008	006 000		1000	1400	-10

1. PLS CADD Model based on Survey data supplied by Fugro and post processed by Movares.

2. Phase Conductor & Earthwire properties based on cable files provided by TenneT.

3. Phase Conductor & Earthwire Stringing (New Wintrack line) based on Max Catenary 1800m @ 10°C (Creep RS).

Phase Conductor Shown (New Wintrack line) – Twin / Quad AMS 620 AAAC E/W Conductor Shown (New Wintrack line) – Hawk OPGW ACSR

Phase Conductor shown represents the middle of the bundle (500mm conductor separation new Wintrack line). RSG shown represents the center of the bundle (200mm conductor separation).

This drawing is produced using PLS-Pole Models (New Wintrack line) based on dimensions from pole drawings "000.145.11 0254226 Mastenontwerpdossier vers.zip" provided by Tennet on 13-06-2014.

7. Insulator lengths are based on the 380kV and 150kV V-brace drawings provided by Tennet on 11-02-2014.

Tower Details are shown as Follows: 1105 (Tower Number) ZWW2E400 (Tower type) sta=564.07 (Station of Tower) ht=40.89 (Tower Height) ele=9.92 (Elevation at Ground Level)

9. All dimensions are in metres.

#### Centre Line / Side Profile Key: Centreline Profile

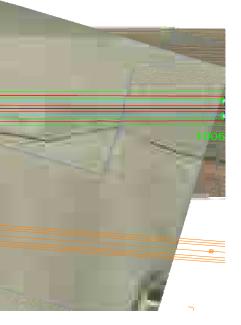
Left Side Profile at -25m From Centreline. Right Side Profile at 25m From Centreline.

Conductor Key: Conductor phase (150 kV) (Creep RS) Conductor phase (380 kV) (Creep RS)

Earthwire shown at 15°C (Creep RS)

RSG shown at -5°C + Ice (Creep RS) Note: Load RS / Max Sag RS Cable conditions not assessed for these preliminary profile drawings.

Symbol 380kV-Radi Ground Roads Railways Highway Buildings Water Foundation Buried Service



150kV-Rad		P	9 19-08-2014	Ninth Issue	e Preliminary Line Pro	file Drawings				TG	MV	MvN	
Clearance (	(m) Clearance (m)	P	8 18-03-2014	Eighth Issu	e Preliminary Line P	rofile Drawings				TG	MV	MvN	
10	8.2	P	7 22-07-2013	Seventh Is:	sue Preliminary Line	Profile Drawin	gs			MW	MV	MvN	
11	9.2	R	rv Date	Description						Ву	Chk	Арр	
13.2	11.4				Development								
11.9	10.1				Prelimina	ry Line Pi	rofile D	rawings					
6.9	5.1				Section D	T1 (Struc	ture 10	001 to 1	050)				
>8.5	>6.7	De	wing Title:		000)								
			D	Borssele-Tilburg ZW380									
		Pn	ject:	orssei	le-mburg.	200300		Approver:	M∨N	Date:	19-08	-2014	
				1	Novare				Postbus 2855 3500 GW Utre	cht			
					diam's it species				Tel: 030 - 265	5555			
20.0 m	Horiz. Scale		echtseweg 310 12 AR ARNHEM										
3.0 m	Vert. Scale		lefoon :026-373111 lefax :026-373111		Rev	P9							



1005 zww6s400 sta=1421. ht=64.90 e	9+5.pol 53 9le=0.87		1006 zww6s400+5.pol sta=1818.91 ht=64.90 ele=0.90		1007 zww6s400+5.pol sta=2217.99 ht=64.90 ele=1.17			1008 zww6s400.j sta=2614.6 ht=59.90 el	ool 4 ∋=1.19	1009 zww6s400 sta=2912.8 ht=59.90 e	.pol 38 le=1.13	1010 zww6s400.pol sta=3226.10 ht=59.90 ele=1	.44
70													7
.20		397.4	64.20	399.1	54,20	396.6	59	9,20	298.2	59 <u>,</u> 20	313.2	59.20	
50 20			54.20		54.20		4	9.20		49,20		49.20	
40			44,00		14,00			9.00		39,00		39.00	
80			33,80		33.80 28.20	+	2	8,80		28,80		28.80	
20			28:20		28.20	+		3.20		23.20		23.20	
10						+							
0			A										
-10 12	1500	1200	1900	5000	5300	2400	5500			5900	3000	3200	

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3. Phase Conductor & Earthwire Stringing (New Wintrack line) based on Max Catenary 1800m @ 10°C (Creep RS).

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Left Side Profile at -25m From Centreline. Right Side Profile at 25m From Centreline.

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Earthwire shown at 15°C (Creep RS)

RSG shown at -5°C + Ice (Creep RS)

Ground     •     10.0       Roads     •     11.8       Raharys     X     14       Highways     •     12.7       Buildings     ~     7.7       Water     •     9.3       Foundation Area     •     •       Pale     •     •	Feature Description	Symbol	380kV-Radia Clearance (m
Railways     X     14       Highways     •     12.7       Buildings     •     7.7       Water     •     9.3       Foundation     Ø     Pole	Ground	•	10.8
Pole O	Roads	•	11.8
Buldings 7.7 Water 9.3 Foundation Area O	Railways	×	14
Vater 29.3 Foundation Area O	Highways	•	12.7
Foundation Area	Buildings	~	7.7
Area Pole	Water	~	>9.3
			)
Buried Services	Pole		
	Buried Services		

_														
150kV-Radial	0kV-Radial	P9	19-08-2014	Ninth Issue Preliminary Line P	rofile Drawings				TG	MV	M∨N			
Clearance (m)	Clearance (m)	P8	18-03-2014	Eighth Issue Preliminary Line	Profile Drawings				TG	MV	MvN			
10	8.2	P7	22-07-2013	Seventh Issue Preliminary Lin	e Profile Drawing	js			MW	MV	MvN			
11	9.2	Rev	Date	Description					Ву	Chk	Арр			
13.2	11.4			Drolinging										
11.9	10.1			Prelimina										
6.9	5.1			Section DT1 (Structure 1001 to 1050)										
>8.5	>6.7	Drawi	ng Title:	Content	500)									
			Р	orocolo Tilburg	TG	Checker:	ΜV							
		Projec	t D	orssele-Tilburg	200300		Approver:	M∨N	Date:	19-08	-2014			
				Movare	4			Postbus 2855 3500 GW Utree Tel: 030 - 265 5						
								141. 030 - 203 .	555					
20.0 m Hori	z. Scale		htseweg 310 AR ARNHEM	Postbus 718 600 AS ARNHEM		ZW38		_DT1-P	Э					
3.0 m Vert	Scale	Telefi		an :026-3731111 E-mail : servicecentrum@tennet.eu										



1010 zww6s400.pol sta=3226,10 ht=59.90 ele=1.44	1011 zww6hk400.pol sta=3504.86 ht=59.30 ele=1.24	1012 zww6s400.pol sta=3892.19 ht=59.90 ele=1.07	1013 zww6s400.pol sta=4278.26 ht=59.90 ele=1.23	1014 zww6s400.pol sta=4662.71 ht=59.90 ele=1.35	80
70					70_
60 20 278.8 59.30	59.30 387.3	59,20 386	.1 59,20 384.4	59.20	60.
	49.30	49.20	49.20	49.20	50
40 00 39.10	39.10	39.00	39.00	39.00	40_
30 80 28.90 .20 23.30	28.90	28 80	28,80	28.80	
20		+			20
					10
0 3200 3200 -100 -100 -100 -100 -100 -100 -100 -	3500	3800 33900 4000 4000 4000 4000 4000 4000 4	4100 4200 4200 4300 4400 4400	4500	-10

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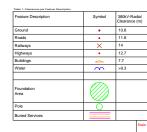
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Left Side Profile at -25m From Centreline. Right Side Profile at 25m From Centreline.

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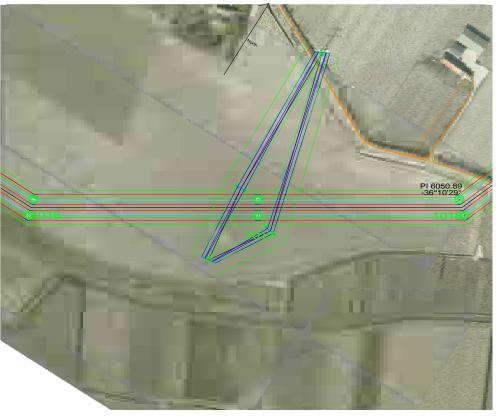
Earthwire shown at 15°C (Creep RS)

RSG shown at -5°C + Ice (Creep RS)



150kV-Radial	0kV-Radial	P9	19-08-2014	Ninth Issue Preliminary Line Profile Drawings				TG	MV	MvN
Clearance (m)	Clearance (m)	P8	18-03-2014	Eighth Issue Preliminary Line Profile Drawings	3			TG	MV	MvN
10	8.2	P7	22-07-2013	Seventh Issue Preliminary Line Profile Drawin	gs			MW	MV	MvN
11	9.2	Rev	Date	Description				Ву	Chk	Арр
13.2	11.4			Drelinsingry Ling B		rousin a				
11.9	10.1			Preliminary Line P	rome D	rawing	5			
6.9	5.1			Section DT1 (Strue	cture 10	001 to 1	050)			
>8.5	>6.7	Drawin	ng Title:	econori e i i (on di						
			Р	araaala Tilburg 71/290		Originator:	TG	Checker:	MV	
		Projec	, D	orssele-Tilburg ZW380		Approver:	M∨N	Date:	19-08	-2014
				Movares			Postbus 2855 3500 GW Utre	cht		
				advance à argements			Tel: 030 - 265	5555		
	iz. Scale		htseweg 310 AR ARNHEM	Postbus 718 6800 AS ARNHEM	Drawing Number ZW38		D_DT1-P	9		
3.0 m Vert	t. Scale	Telefo Telefo			Page	3/14			Rev	P9





1014 zww6s400.pol sta=4662.71 ht=59.90 ele=1.35	1015 zww6s400.pol sta=5017.14 ht=59.90 ele=0.88	1016 zww6hl400+5.pol sta=5412.77 ht=64.30 ele=0.65	1017 zww6hk400+10.pol sta=5749.12 ht=69.30 ele=0.47	1018 zww6hl400+5.pol sta=6050.89 ht=64_30 ele=0.88	
90					
80					
70		336.	.4 69.30 301.8		
60 20 354.4	395.6	64.30 64.30	59,30	64.30	
50 20	49,20	54.30 54.30	49.10	54.30	
		44.10 44.10		44.10	
40 00	39,00	33.90 33.90	38,90	33.90	
30 80 20	28 80	26.30 28.30		28.30	
20					
10					
	3300	000	800	0	

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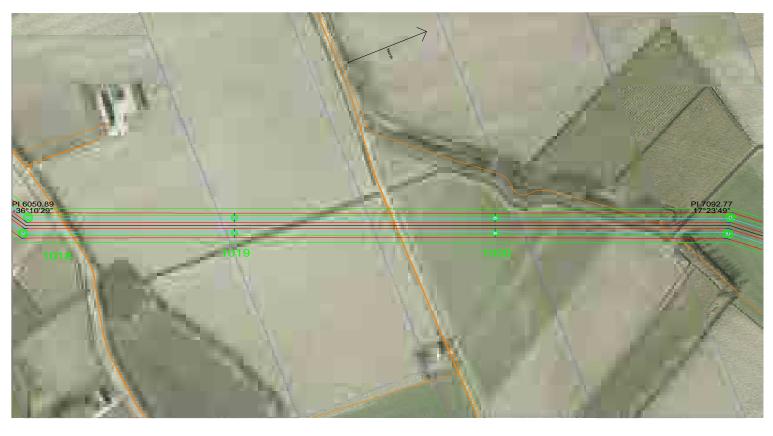
Earthwire shown at 15°C (Creep RS)

Note: Load RS / Max Sag RS Cable conditions not assessed for these preliminary profile drawings.

Symbol 380kV-Radia Ground Roads Railways Highway Buildings Water Foundation Buried Service

RSG shown at -5°C + Ice (Creep RS)

		_												
150kV-Radial	0kV-Radial	P9	19-08-2014	Ninth Issue Preliminary Line Profile Drawings				TG	MV	MvN				
Clearance (m)	Clearance (m)	P8	18-03-2014	Eighth Issue Preliminary Line Profile Drawings	3			TG	MV	MvN				
10	8.2	P7	22-07-2013	Seventh Issue Preliminary Line Profile Drawin	gs			MW	MV	MvN				
11	9.2	Rev	Date	Description				Ву	Chk	Арр				
13.2	11.4			Preliminary Line Profile Drawings										
11.9	10.1			Preliminary Line P	rofile D	rawing	5							
6.9	5.1			Section DT1 (Strue	cture 10	001 to 1	050)							
>8.5	>6.7	Drawi	ng Title:	econom prin (on a										
						Originator:	TG	Checker:	MV					
		Projec	. В	orssele-Tilburg ZW380		Approver:	M∨N	Date:	19-08	-2014				
				Movares			Postbus 2855 3500 GW Utro							
				advance à argements			Tel: 030 - 265	5555						
20.0 m Hori	z. Scale		htteweg 310 AB ARNHEM	Postbus 718 6800 AS ARNHEM	Drawing Number ZW38		D_DT1-P	9						
3.0 m Vert	Scale	Telef: Telef:			Page	4/14			Rev	P9				





Ground Roads Railways Highway Buildings Water

Buried Servic

1018 zww6hl400+5 sta=6050.89 ht=64.30 ele=	1019       zww6s400       sta=6360.       ht=59.90 e	D.pol 1020 06 sta=674 ele=1.20 ht=59.9	100.pol 16.19 0 ele=0.40	1021 zww6hk400+5.pol sta=7092.77 ht=64.30 ele=0.13	1022 zww6s400+5.pol sta=7482.63 ht=64.90 ele=1.00	
70						
64,30 60	309.2 59,20	386.1 59,20	346.6 64.30	64.30 389.9	64.20	
54 30	49.20		54.30	54.30	54.20	
44,10	39.00	49,20	44.10	44.10	44.00	
40 33 90		39,00	33.90	33.90	33.80	
30 28 30	28.80	28 80 23 20	28.30	28.30	26.20	
20						
10						
0						
6100 6100	6200	6500	2000 68900	7200	7400	

## Notes:

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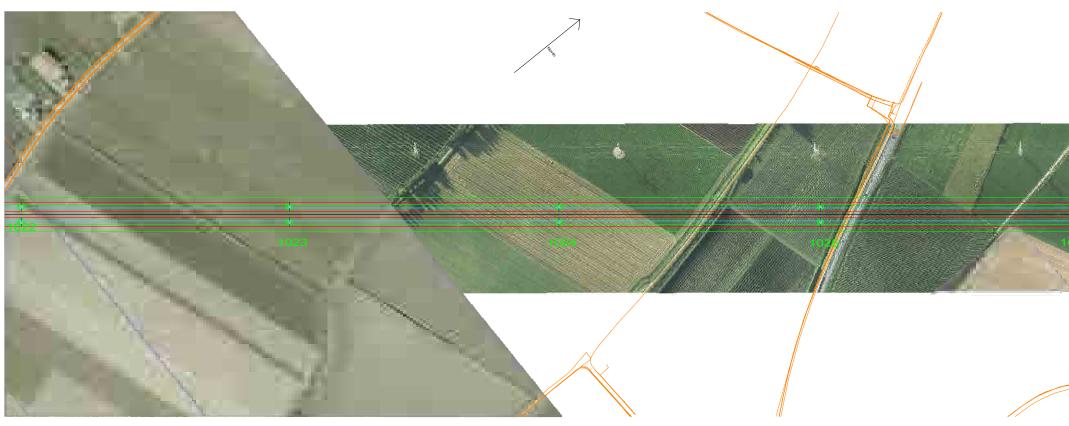
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Centreline Profile Left Side Profile at -25m From Centreline. Right Side Profile at 25m From Centreline.

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150kV-Radial	0kV-Radial	P9	19-08-2014	Ninth Issue Pr	eliminary Line Pr	ofile Drawings				TG	MV	M∨N
Clearance (m)	Clearance (m)	P8	18-03-2014	Eighth Issue P	reliminary Line P	rofile Drawings				TG	MV	MvN
10	8.2	P7	22-07-2013	Seventh Issue	Preliminary Line	Profile Drawing	js			MW	MV	MvN
11	9.2	Rev	Date	Description						Ву	Chk	Арр
13.2	11.4				Due l'estine							
11.9	10.1				Prelimina	ry Line Pr	offie D	rawings				
6.9	5.1				Section D	T1 (Struc	ture 10	01 to 1	050)			
>8.5	>6.7	Drawin	ng Title:		000)							
			Р	orocolo	Tilburg	714/200		Originator:	TG	Checker:	ΜV	
		Projec	t D	orssele	-Tilburg	200360		Approver:	M∨N	Date:	19-08	-2014
				M	ovare	-			Postbus 2855 3500 GW Utre Tel: 030 - 265			
Hori	z. Scale	6812	htseweg 310 AR ARNHEM	Postbus 718 6800 AS ARNH			ZW38		_DT1-P	9		
3.0 m Vert	Scale	Telefo Telefo										P9



1022 zww6s400+5.pol sta=7482.63 ht=64.90 ele=1.00	1023 zww6s400+5.pol sta=7879.70 ht=64.90 ele=0.65	1024 zww6s400+5.pol sta=8279.01 ht=64.90 ele=0.81	1025 zww6s400.pol sta=8666.09 ht=59.90 ele=-0.11	1026 zww6s400.pol sta=9063.50 ht=59.90 ele=1.00	80
70					70
20 397.1 60	64,20 399.3	64.20 387.1		59.20	60
20	54.20	54,20	59,20 397.4		
50 00	44.00	44,00	49.20	49.20	50
40 80	33,80	33,80	39.00	39.00	40
30 20	28 20	28 20	28,80	28.80 23.20	
					20
10					10
O					0
-10 -10 00 00 00 00 00 00 00 00 00 00 00 00 0	7800 7900 8000 8100 8200	83300 8400 8500	8600 8800 88900 89900	00006	-10

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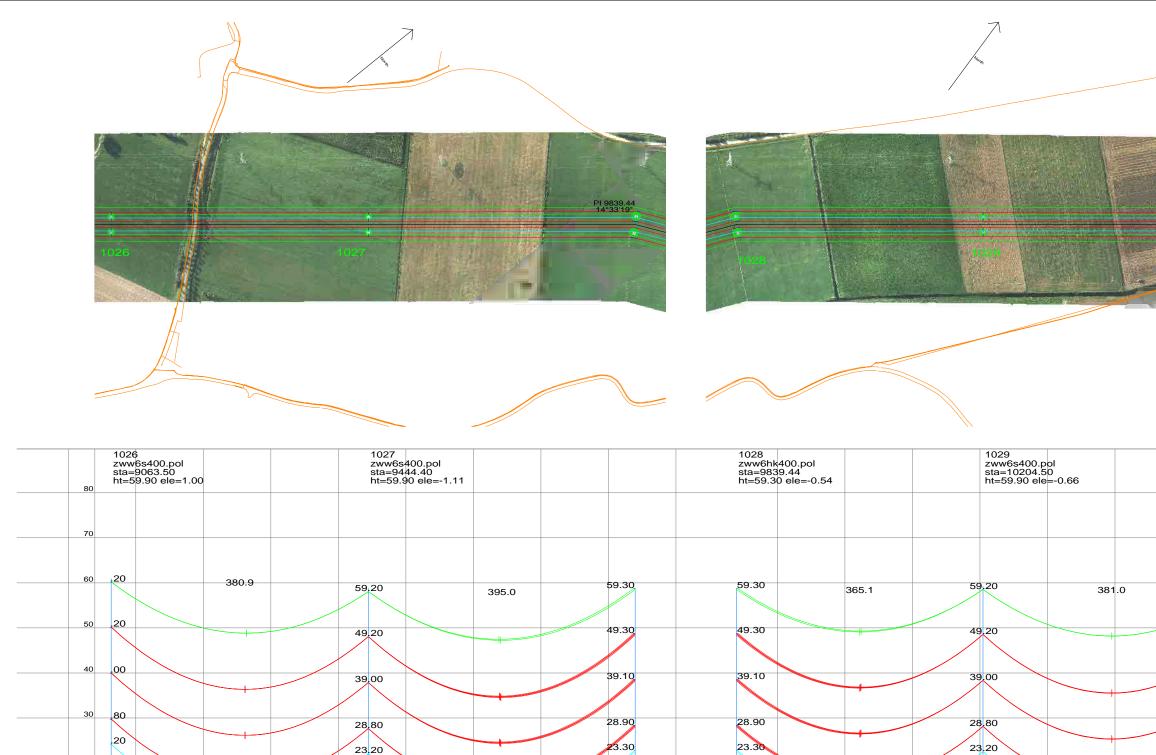
RSG shown at -5°C + Ice (Creep RS)

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Radk     •     118     11       Ralkenys     •     14     13.2       Buildings     •     12.7     19       Buildings     •     7.7     6.9       Water     •     9.3     8.5       Foundation     •     •     9.3       Pole     •     •     •	Feature Description	Symbol	380kV-Radial Clearance (m)	150kV-R Clearan
Ralknys     X     14     13.2       Highways     II.27     11.3       Buildings     7.7     6.9       Water     1     9.3     9.85       Foundation     Image: Comparison of the second s	Ground	•	10.8	10
Important     Important <t< td=""><td>Roads</td><td>•</td><td>11.8</td><td>11</td></t<>	Roads	•	11.8	11
Buldings 7.7 6.9 Water 7.7 6.9 Pole 0	Railways	×	14	13.2
Water     >2.3     >8.5       Foundation Area          Pole	Highways	•	12.7	11.9
Foundation Area	Buildings	~	7.7	6.9
Area Pole O	Water	~ ~	>9.3	>8.5
	Foundation Area			
Buried Services	Pole	0		
	Buried Services			

adial	150kV-Radial	0kV-Radial	P9	19-08-2014	Ninth Issue Preliminary Line Profile Drawings				TG	MV	M∨N		
æ (m)	Clearance (m)	Clearance (m)	P8	18-03-2014	Eighth Issue Preliminary Line Profile Drawing	B			TG	MV	MvN		
	10	8.2	P7	22-07-2013	Seventh Issue Preliminary Line Profile Drawin	igs			MW	MV	MvN		
	11	9.2	Rev	Date	Description				Ву	Chk	Арр		
	13.2	11.4			Drolinging rulling D			-					
	11.9	10.1			Preliminary Line P	rome D	rawings	5					
	6.9	5.1			Section DT1 (Strue	050)							
	>8.5	>6.7	Drawi	ng Title:									
				Р	Devecele Tilleure 7/4/200					MV			
			Projec	, D	orssele-Tilburg ZW380	,	Approver:	M∨N	Date:	19-08-2014			
					Movares			Postbus 2855 3500 GW Utro					
					addow/a & argentee/a			Tel: 030 - 265	5555				
Scale	20.0 m Hori	z. Scale		htseweg 310 AR ARNHEM	Postbus 718 6800 AS ARNHEM	Drawing Number ZW3		D_DT1-P	9				
	3.0 m Vert	. Scale								Rev	P9		





1. PLS CADD Model based on Survey data supplied by Fugro and post processed by Movares.

2. Phase Conductor & Earthwire properties based on cable files provided by TenneT.

3. Phase Conductor & Earthwire Stringing (New Wintrack line) based on Max Catenary 1800m @ 10°C (Creep RS).

Phase Conductor Shown (New Wintrack line) – Twin / Quad AMS 620 AAAC E/W Conductor Shown (New Wintrack line) – Hawk OPGW ACSR

00

Phase Conductor shown represents the middle of the bundle (500mm conductor separation new Wintrack line). RSG shown represents the center of the bundle (200mm conductor separation).

This drawing is produced using PLS-Pole Models (New Wintrack line) based on dimensions from pole drawings "000.145.11 0254226 Mastenontwerpdossier vers.zip" provided by Tennet on 13-06-2014.

7. Insulator lengths are based on the 380kV and 150kV V-brace drawings provided by Tennet on 11-02-2014.

20

10

Tower Details are shown as Follows: 1105 (Tower Number) ZWW2E400 (Tower type) sta=564.07 (Station of Tower) ht=40.89 (Tower Height) ele=9.92 (Elevation at Ground Level)

9. All dimensions are in metres.

#### Centre Line / Side Profile Key: Centreline Profile

Left Side Profile at -25m From Centreline. Right Side Profile at 25m From Centreline.

Conductor Key: Conductor phase (150 kV) (Creep RS)

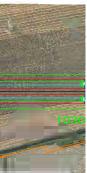
Conductor phase (380 kV) (Creep RS) Earthwire shown at 15°C (Creep RS)

RSG shown at -5°C + Ice (Creep RS)

Note: Load RS / Max Sag RS Cable conditions not assessed for these preliminary profile drawings.

2

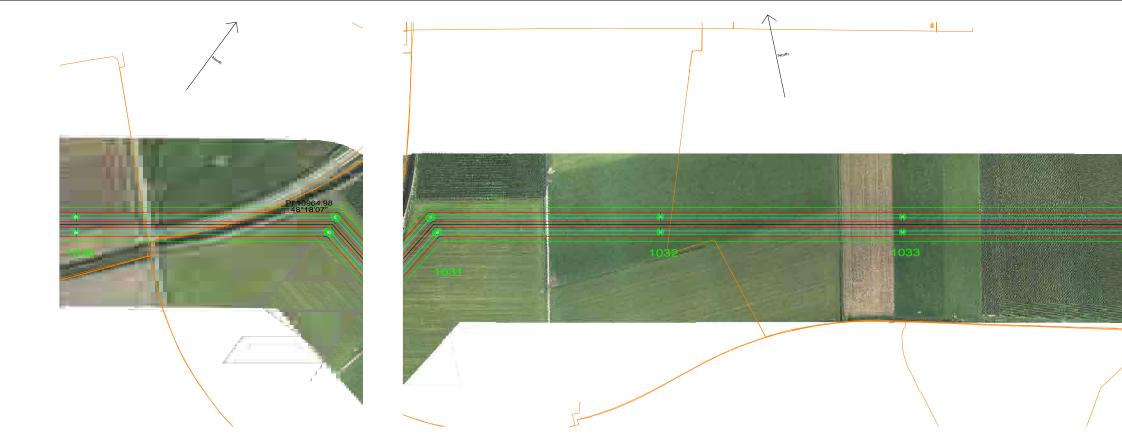
Symbol 380kV-Radial Ground Roads Railways Highway Buildings Water 10.8 ~ >9 Foundation Area Buried Service



# Ŧ

	1030 zww6s400.pol sta=10585.54 ht=59.90 ele=-0.73	80
		70
		60
59	9.20	
		50
49	9.20	00
39	9.00	40
		30
28	3.80	
1	3.20	
2.	5.20	20
		10
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		_
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0500		
<u>j</u>		-10

150kV-Radial	0kV-Radial	P9	19-08-2014	Ninth Issue Preliminary Line Profile Drawings				TG	MV	MvN			
Clearance (m)	Clearance (m)	P8	18-03-2014										
10	8.2	P7	22-07-2013	Seventh Issue Preliminary Line Profile Drawin	MW	MV	MvN						
11	9.2	Rev	Date	Description	Ву	Chk	Арр						
13.2	11.4		•	Drelinsinen (Line D		-							
11.9	10.1			Preliminary Line Profile Drawings									
6.9	5.1			Section DT1 (Structure 1001 to 1050)									
>8.5	>6.7	Drawi	ng Title:										
						Originator:	TG	Checker:	MV				
		Projet	ь	orssele-Tilburg ZW380	,	Approver:	MvN	Date:	19-08	-2014			
				and the second se									
				M COARD DOG			Postbus 2855						
							3500 GW Utre						
				antiparte à argumente			Tel: 030 - 265	5555					
20.0 m Hori	z. Scale		htseweg 310	Postbus 718	Drawing Number ZW38		_DT1-P	9					
3.0 m Vert	. Scale	Telef Telef	on :026-3731111		Rev	P9							



1030 zww6s400.pol sta=10585.54 ht=59.90 ele=-0.73	1031 zww6hl400.pol sta=10964.98 ht=59.30 ele=-1.09	1032 zww6s400.pol sta=11300.57 ht=59.90 ele=-1.11	1033 zww6s400.pol sta=11659.54 ht=59.90 ele=-0.95	1034 zww6s400.pol sta=12023.69 ht=59.90 ele=-1.41	80
70					70
<u>60</u> <u>379.4</u> 59.30	59.30 225.6 5	59,20 359.0	59,20 364.1	59.20	60_
50	333.0	555.0	304.1		50
40		49,20	49,20	49.20	40
30 00 39.10	39.10	39.00	39,00	39.00	30
20 80 28.90 23.30		28 80 23 20	28 80 23 20	28.80 23.20	20
10					10
					0
	1200	1300	1700	1300	-10

1. PLS CADD Model based on Survey data supplied by Fugro and post processed by Movares.

2. Phase Conductor & Earthwire properties based on cable files provided by TenneT.

3. Phase Conductor & Earthwire Stringing (New Wintrack line) based on Max Catenary 1800m @ 10°C (Creep RS).

Phase Conductor Shown (New Wintrack line) – Twin / Quad AMS 620 AAAC E/W Conductor Shown (New Wintrack line) – Hawk OPGW ACSR

Phase Conductor shown represents the middle of the bundle (500mm conductor separation new Wintrack line). RSG shown represents the center of the bundle (200mm conductor separation).

This drawing is produced using PLS-Pole Models (New Wintrack line) based on dimensions from pole drawings "000.145.11 0254226 Mastenontwerpdossier vers.zip" provided by Tennet on 13-06-2014.

7. Insulator lengths are based on the 380kV and 150kV V-brace drawings provided by Tennet on 11-02-2014.

Tower Details are shown as Follows: 1105 (Tower Number) ZWW2E400 (Tower type) sta=564.07 (Station of Tower) ht=40.89 (Tower Height) ele=9.92 (Elevation at Ground Level)

9. All dimensions are in metres.

#### Centre Line / Side Profile Key: Centreline Profile

Left Side Profile at -25m From Centreline. Right Side Profile at 25m From Centreline.

Conductor Key: Conductor phase (150 kV) (Creep RS)

Conductor phase (380 kV) (Creep RS)

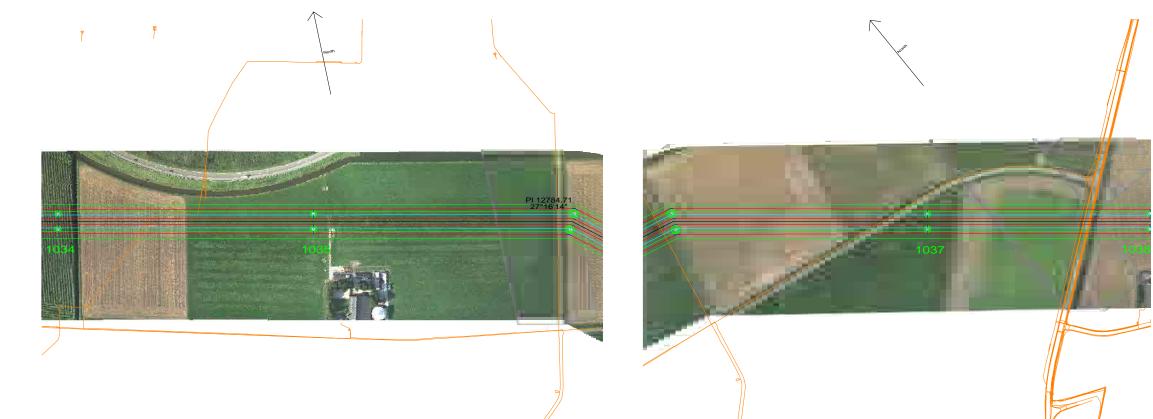
Earthwire shown at 15°C (Creep RS)

RSG shown at -5°C + Ice (Creep RS)

Feature Description	Symbol	380kV-Rad Clearance (
Ground	•	10.8
Roads	•	11.8
Railways	×	14
Highways	•	12.7
Buildings	~	7.7
Water	~	>9.3
Foundation Area		
Pole	0	
Buried Services		



		_											
150kV-Radial	0kV-Radial	P9	19-08-2014	TG	MV	MvN							
Clearance (m)	Clearance (m)	P8	18-03-2014	TG	MV	MvN							
10	8.2	P7	22-07-2013	Seventh Issue Preliminary Line Profile Drawing	MW	MV	MvN						
11	9.2	Rev	Date	Description	Ву	Chk	Арр						
13.2	11.4			Broliminer Line Brofile Drowings									
11.9	10.1			Preliminary Line Profile Drawings									
6.9	5.1			Section DT1 (Structure 1001 to 1050)									
>8.5	>6.7	Draw	ng Title:										
			Р	Devecels Tilburg 714/200									
		Proje	<u>.</u> В	orssele-Tilburg ZW380		Approver:	M∨N	Date:	19-08	-2014			
				And the same section			Postbus 2855						
				PART AND A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTIONO			3500 GW Utre	cht					
				and the second sec			Tel: 030 - 265	5555					
20.0 m Hori	z. Scale		htteweg 310	Postbus 718 600 AS ARNHEM	Drawing Number ZW38		_DT1-P	9					
3.0 m Vert	. Scale	Telefoon :026-3731111 E-mail : service.centrum @ternet.eu Telefax :026-3731112 Internet : www.ternet.eu Page 8/14							Rev	P9			



1034 zww6s400.pol sta=12023.69 ht=59.90 ele=-1.41	1035 zww6s400.pol sta=12402.05 ht=59.90 ele=-1.29	1036 zww6hk400.pol sta=12784.71 ht=59.30 ele=-1.56	1037 zww6s400.pol sta=13161.04 ht=59.90 ele=-1.03	1038 zww6s350.pol sta=13490.42 ht=53.30 ele=-0.96	80
70					70
60			59,20 220.4		60
50 20 378.4	59.20     382.7     59.30	59.30 376.3	523.4	2.60	50
40	49.20 49.30	49.30		3.80	40
30	39,00 39.10	39.10	39.00	1.80	
20 20	28.80 28.90 23.20 <b>2</b> 3.30	28.90	22 20	.60	20
10					10
					0
-100 -100 -100 -100 -100 -100 -100 -100	2300 2500 2500 27700 27700	3000 3000 3000	3100		-10

1. PLS CADD Model based on Survey data supplied by Fugro and post processed by Movares.

2. Phase Conductor & Earthwire properties based on cable files provided by TenneT.

3. Phase Conductor & Earthwire Stringing (New Wintrack line) based on Max Catenary 1800m @ 10°C (Creep RS).

Phase Conductor Shown (New Wintrack line) – Twin / Quad AMS 620 AAAC E/W Conductor Shown (New Wintrack line) – Hawk OPGW ACSR

Phase Conductor shown represents the middle of the bundle (500mm conductor separation new Wintrack line). RSG shown represents the center of the bundle (200mm conductor separation).

This drawing is produced using PLS-Pole Models (New Wintrack line) based on dimensions from pole drawings "000.145.11 0254226 Mastenontwerpdossier vers.zip" provided by Tennet on 13-06-2014.

7. Insulator lengths are based on the 380kV and 150kV V-brace drawings provided by Tennet on 11-02-2014.

Tower Details are shown as Follows: 1105 (Tower Number) ZWW2E400 (Tower type) sta=564.07 (Station of Tower) ht=40.89 (Tower Height) ele=9.92 (Elevation at Ground Level)

9. All dimensions are in metres.

#### Centre Line / Side Profile Key: Centreline Profile

Left Side Profile at -25m From Centreline. Right Side Profile at 25m From Centreline.

Conductor Key: Conductor phase (150 kV) (Creep RS)

Conductor phase (380 kV) (Creep RS) Earthwire shown at 15°C (Creep RS)

RSG shown at -5°C + Ice (Creep RS)



150kV-Radial	0kV-Radial	P9	19-08-2014	Ninth Issue Preliminary Line Profile Drawing	5			TG	MV	M∨N			
Clearance (m)	Clearance (m)	P8	18-03-2014	Eighth Issue Preliminary Line Profile Drawing		TG	MV	MvN					
10	8.2	P7	22-07-2013	Seventh Issue Preliminary Line Profile Drawi		MW	MV	MvN					
11	9.2	Rev	Date	Description		Ву	Chk	Арр					
13.2	11.4			Destinates and the all									
11.9	10.1			Preliminary Line Profile Drawings									
6.9	5.1			Section DT1 (Structure 1001 to 1050)									
>8.5	>6.7	Drawin	ig Title:										
			Р	araaala Tilburg 7\//29	<u>`</u>	Originator:	TG	Checker:	ΜV				
		Projec		orssele-Tilburg ZW38	J	Approver:	M∨N	Date:	19-08	8-2014			
				Movares			Postbus 2855 3500 GW Utre						
				adaptary is a separately to			Tel: 030 - 265	5555					
20.0 m Hori	z. Scale		ntseweg 310 AR ARNHEM	Postbus 718 6800 AS ARNHEM	Drawing Number ZW3		D_DT1-P	9					
3.0 m Vert	Scale		Telefon : 026-3731112 Email : servicecentum @tennet.eu Telefon : 026-3731112 Internet : www.tennet.eu Telefon : 026-3731112 Internet : www.tennet.eu						Rev	P9			





80	1038     10       zww6s350.pol     zv       sta=13490.42     st       ht=53.30 ele=-0.96     ht	039 vw6s350.pol a=13826.65 =53.30 ele=-0.58		1039a zww6hk350.pol sta=14151.32 ht=52.70 ele=-0.10	1040 zww6s400.p sta=14409.8 ht=59.90 ele	ool 38 ≥=-0.35	1041 zww6s400.pol sta=14787.66 ht=59.90 ele=0.90	1042 zww6s400.pol sta=15173.78 ht=59.90 ele=0.12
70								
60				258.6	59.20	377.8	59.20 386.1	59.20
50	60 336.2 52.6	0 324.7	, 52.70	52.70	49.20		49,20	49.20
40	80 43.8		43.90	43.90			39,00	39.00
30	80 34.8	0	34.90	34.90	39.00		28,80	
	80 25.8		25.90 21.70	25.90	28.80 23.20		23,20	28.80 23.20
10								
0								Armen -
-10	3500	33000	14100	4300	14400	4600	4700 5000	2100

1. PLS CADD Model based on Survey data supplied by Fugro and post processed by Movares.

2. Phase Conductor & Earthwire properties based on cable files provided by TenneT.

3. Phase Conductor & Earthwire Stringing (New Wintrack line) based on Max Catenary 1800m @ 10°C (Creep RS).

Phase Conductor Shown (New Wintrack line) – Twin / Quad AMS 620 AAAC E/W Conductor Shown (New Wintrack line) – Hawk OPGW ACSR

Phase Conductor shown represents the middle of the bundle (500mm conductor separation new Wintrack line). RSG shown represents the center of the bundle (200mm conductor separation).

This drawing is produced using PLS-Pole Models (New Wintrack line) based on dimensions from pole drawings "000.145.11 0254226 Mastenontwerpdossier vers.zip" provided by Tennet on 13-06-2014.

7. Insulator lengths are based on the 380kV and 150kV V-brace drawings provided by Tennet on 11-02-2014.

Tower Details are shown as Follows: 1105 (Tower Number) ZWW2E400 (Tower type) sta=564.07 (Station of Tower) ht=40.89 (Tower Height) ele=9.92 (Elevation at Ground Level)

# 9. All dimensions are in metres.

#### Centre Line / Side Profile Key: Centreline Profile

Left Side Profile at -25m From Centreline. Right Side Profile at 25m From Centreline.

Conductor Key: Conductor phase (150 kV) (Creep RS)

Earthwire shown at 15°C (Creep RS)

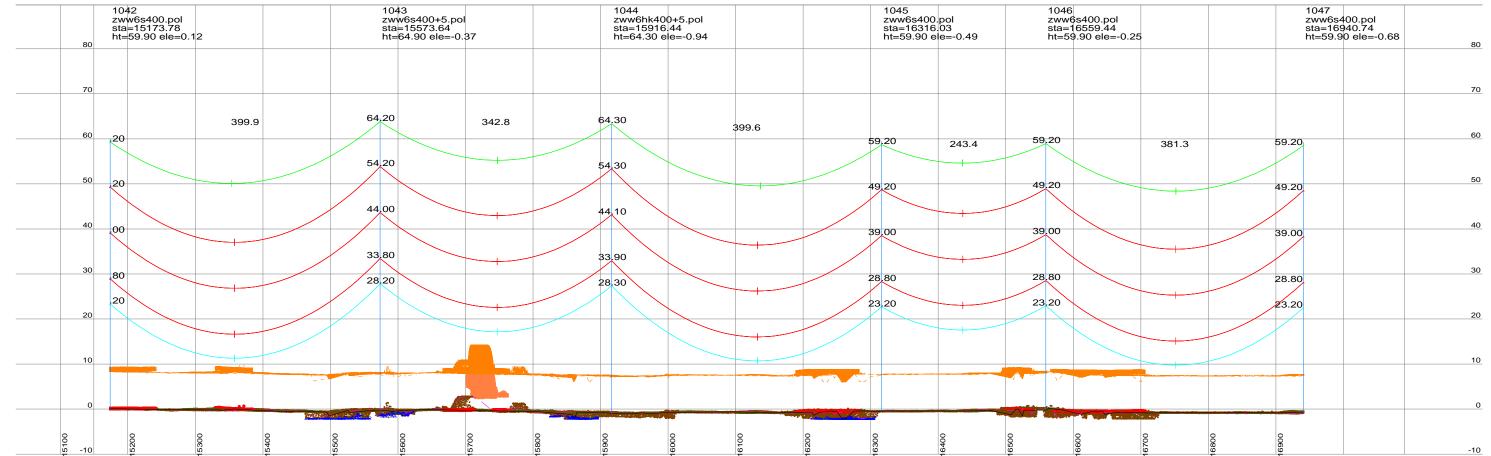
RSG shown at -5°C + Ice (Creep RS) Note: Load RS / Max Sag RS Cable conditions not assessed for these preliminary profile drawings.

Roads Railway Highway Building Water

Conductor phase (380 kV) (Creep RS)

	150kV-Radial	0kV-Radial		P9	19-08-2014	Ninth Issue	e Preliminary Line	Profile Drawings				TG	MV	MvN	
	Clearance (m)	Clearance (m)		P8	18-03-2014	TG	MV	MvN							
	10	8.2		P7	22-07-2013	Seventh Is		MW	MV	MvN					
	11	9.2		Rev	Date	Date Description								Арр	
	13.2	11.4													
	11.9	10.1					3								
	6.9	5.1				Section DT1 (Structure 1001 to 1050)									
	>8.5	>6.7		Drawin	g Title:										
							orssele-Tilburg ZW380						MV		
				Project	В	orsse	ie-Tiburg	J Z VV 380		Approver:	M∨N	Date:	19-08	-2014	
							Novara	8			Postbus 2855 3500 GW Utre				
							and the second second				Tel: 030 - 265	5555			
					tseweg 310	Postbus 7			Drawing Number ZW38		_DT1-P	9			
	3.0 m Vert	Scale		Gal2 AR ARNIEM 6600 AS ARNIEM Telefox ::026-3231111 E-mail ::servicecentum@isenret.au Telefox ::026-323112 Informet ::www.annet.au Page 10/14						Rev P9					





1. PLS CADD Model based on Survey data supplied by Fugro and post processed by Movares.

2. Phase Conductor & Earthwire properties based on cable files provided by TenneT.

3. Phase Conductor & Earthwire Stringing (New Wintrack line) based on Max Catenary 1800m @ 10°C (Creep RS).

Phase Conductor Shown (New Wintrack line) – Twin / Quad AMS 620 AAAC E/W Conductor Shown (New Wintrack line) – Hawk OPGW ACSR

Phase Conductor shown represents the middle of the bundle (500mm conductor separation new Wintrack line). RSG shown represents the center of the bundle (200mm conductor separation).

This drawing is produced using PLS-Pole Models (New Wintrack line) based on dimensions from pole drawings "000.145.11 0254226 Mastenontwerpdossier vers.zip" provided by Tennet on 13-06-2014.

7. Insulator lengths are based on the 380kV and 150kV V-brace drawings provided by Tennet on 11-02-2014.

Tower Details are shown as Follows: 1105 (Tower Number) ZWW2E400 (Tower type) sta=564.07 (Station of Tower) ht=40.89 (Tower Height) ele=9.92 (Elevation at Ground Level)

# 9. All dimensions are in metres.

#### Centre Line / Side Profile Key: Centreline Profile

Left Side Profile at -25m From Centreline. Right Side Profile at 25m From Centreline.

Conductor Key: Conductor phase (150 kV) (Creep RS)

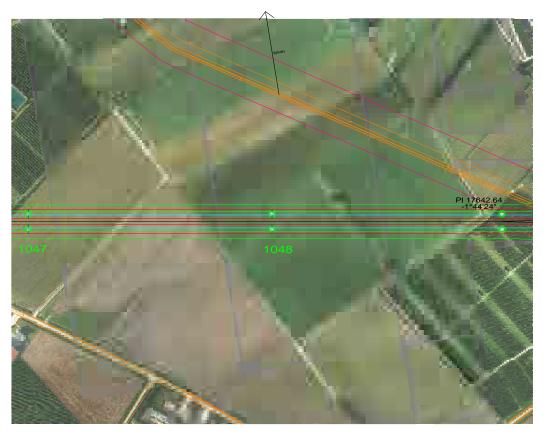
Conductor phase (380 kV) (Creep RS) Earthwire shown at 15°C (Creep RS)

Note: Load RS / Max Sag RS Cable conditions not assessed for these preliminary profile drawings.

Symbol 380k\ Railway Highway Building Water Buried Ser

RSG shown at -5°C + Ice (Creep RS)

150kV-Radial	0kV-Radial	P9	19-08-2014	Ninth Issue Preliminary Line Pro	file Drawings				TG	MV	M∨N			
Clearance (m)	Clearance (m)	P8	18-03-2014	Eighth Issue Preliminary Line Pre		TG	MV	MvN						
10	8.2	P7	22-07-2013	Seventh Issue Preliminary Line F		MW	MV	MvN						
11	9.2	Rev	Date	Description		Ву	Chk	Арр						
13.2	11.4			Breliminen (Line Brefile Browings										
11.9	10.1			Preliminary Line Profile Drawings Section DT1 (Structure 1001 to 1050)										
6.9	5.1													
>8.5	>6.7	Drawi	ng Title:	Occupit D		, 10	01101	000)						
			Р	orocolo Tilburg J	711/200		Originator:	TG	Checker:	MV				
		Projec	• D	orssele-Tilburg 2		ſ	Approver:	M∨N	Date:	19-08	-2014			
				Movares				Postbus 2855 3500 GW Utre Tel: 030 - 265						
		_												
Hori	iz. Scale		htseweg 310 AB ARNHEM	Postbus 718 6000 AS ARNHEM	ZV		0_LPC	_DT1-P	9					
3.0 m	. Scale	Telefi			P	ane 1	1/14			Rev	P9			





1047     1048       zww6s400.pol     zww6s400       sta=16940.74     sta=17301       ht=59.90 ele=-0.68     ht=59.90 ele	pol 96 Ie=-0.61	1049 zww6s400+51003.pol sta=17642.64 ht=64.90 ele=-0.80	1050P1 zwm6hk400.pol sta=18040.87 ht=59.30 ele=0.14 orient angle=-12.76	Portaal 21A portaal zwart 150 kv sta=18257.47 ht=19.00 ele=0.75	80
70				22N h3+0 sta=18140.87 ht=31.90 ele=0.70	70
60	340.7 64.20	64.20 402.1, 398	.2 59:30		60_
20 361.2 59.20	54.20	54.20			50
	44.00	44.00	49:30		
40 00 39.00	33.80	33.80	39(10	31.90 24 40 6, 101.2	40
30 80 20 23 20	28.20	28.20	28 90 23 30	27.20	30_
20				19.70 19:00	20
					10_
					0
7 20 20 20 20 20 20 20 20 20 20 20 20 20	750	770	800	81(	-10

1. PLS CADD Model based on Survey data supplied by Fugro and post processed by Movares.

2. Phase Conductor & Earthwire properties based on cable files provided by TenneT.

3. Phase Conductor & Earthwire Stringing (New Wintrack line) based on Max Catenary 1800m @ 10°C (Creep RS).

Phase Conductor Shown (New Wintrack line) – Twin / Quad AMS 620 AAAC E/W Conductor Shown (New Wintrack line) – Hawk OPGW ACSR

Phase Conductor shown represents the middle of the bundle (500mm conductor separation new Wintrack line). RSG shown represents the center of the bundle (200mm conductor separation).

This drawing is produced using PLS-Pole Models (New Wintrack line) based on dimensions from pole drawings "000.145.11 0254226 Mastenontwerpdossier vers.zip" provided by Tennet on 13-06-2014.

7. Insulator lengths are based on the 380kV and 150kV V-brace drawings provided by Tennet on 11-02-2014.

Tower Details are shown as Follows: 1105 (Tower Number) ZWW2E400 (Tower type) sta=564.07 (Station of Tower) ht=40.89 (Tower Height) ele=9.92 (Elevation at Ground Level)

9. All dimensions are in metres.

#### Centre Line / Side Profile Key: Centreline Profile

Left Side Profile at -25m From Centreline. Right Side Profile at 25m From Centreline.

Conductor Key: Conductor phase (150 kV) (Creep RS) Conductor phase (380 kV) (Creep RS) Earthwire shown at 15°C (Creep RS)

RSG shown at -5°C + Ice (Creep RS)

Feature Description	Symbol	380kV-Radial Clearance (m)
Ground	•	10.8
Roads	•	11.8
Railways	X	14
Highways	•	12.7
Buildings	~	7.7
Water	~	>9.3
Foundation Area		
Pole	0	
Buried Services		
		Scr



150kV-Radial	0kV-Radial	P9	19-08-2014	Ninth Issue I	Preliminary Line Pr	rofile Drawings				TG	MV	M∨N
Clearance (m)	Clearance (m)	P8	18-03-2014	Eighth Issue	Preliminary Line F	Profile Drawings				TG	MV	MvN
10	8.2	P7	22-07-2013	Seventh Issu	e Preliminary Line	Profile Drawing	gs			MW	MV	MvN
11	9.2	Rev	Date	Description						Ву	Chk	Арр
13.2	11.4				Droliming							
11.9	10.1				Prelimina	ry Line Pr	one D	rawings				
6.9	5.1				Section [	DT1 (Struc	ture 10	001 to 1	050)			
>8.5	>6.7	Drawin	ig Title:		00000000				,			
			Р	orecold	e-Tilburg	711/200		Originator:	TG	Checker:	MV	
		Projec	, D	0155616	e-mburg	200360		Approver:	M∨N	Date:	19-08	-2014
					lovare	8			Postbus 2855 3500 GW Utre Tel: 030 - 265			
20.0 m Hor	iz. Scale		tseweg 310 AR ARNHEM	Postbus 718 6800 AS ARI	NHEM		Drawing Number ZW38		_DT1-P	9		
3.0 m Ver	t. Scale	Telefo Telefo		E-mail Internet	: servicecentrum@tennet.eu : www.tennet.eu		Page	12/14			Rev	P9



Portaal 21A 21 portaal zwart 150 ktv3+0 sta=18257.47 sta=18491.72 ht=19.00 ele=0.75 ht=31.90 ele=0.70 orient angle=-25.00		Portaal 21B portaal wit 150 kv sta=18692.90 ht=24.50 ele=0.75		1002b   zwm6e400.pol   sta=19463.23   ht=59.30 ele=0.80   90
80				80
			399.6, 395.2	70
				59.30 60   49.30 50
				39.10 40
234.3 31.90 29.40 27,20	116.6, 101.2			28.90 30
20 19,00 19,70	24,50 20.50			23.30 20
15.00				10
8 \$200 8 \$200	000		300	

1. PLS CADD Model based on Survey data supplied by Fugro and post processed by Movares.

2. Phase Conductor & Earthwire properties based on cable files provided by TenneT.

3. Phase Conductor & Earthwire Stringing (New Wintrack line) based on Max Catenary 1800m @ 10°C (Creep RS).

Phase Conductor Shown (New Wintrack line) – Twin / Quad AMS 620 AAAC E/W Conductor Shown (New Wintrack line) – Hawk OPGW ACSR

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This drawing is produced using PLS-Pole Models (New Wintrack line) based on dimensions from pole drawings "000.145.11 0254226 Mastenontwerpdossier vers.zip" provided by Tennet on 13-06-2014.

7. Insulator lengths are based on the 380kV and 150kV V-brace drawings provided by Tennet on 11-02-2014.

Tower Details are shown as Follows: 1105 (Tower Number) ZWW2E400 (Tower type) sta=564.07 (Station of Tower) ht=40.89 (Tower Height) ele=9.92 (Elevation at Ground Level)

9. All dimensions are in metres.

#### Centre Line / Side Profile Key: Centreline Profile

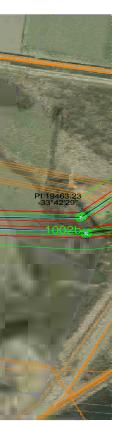
Left Side Profile at -25m From Centreline. Right Side Profile at 25m From Centreline.

Earthwire shown at 15°C (Creep RS)

RSG shown at -5°C + Ice (Creep RS)

Conductor Key: Conductor phase (150 kV) (Creep RS) Conductor phase (380 kV) (Creep RS)

Feature Description	Symbol	380kV-Ra Clearance
Ground	•	10.8
Roads	•	11.8
Railways	X	14
Highways	•	12.7
Buildings	~	7.7
Water	~	>9.3
Foundation Area		
Pole	0	
Buried Services		



150kV-Radial	0kV-Radial	P9	19-08-2014	Ninth Issue Preliminary Line Pro	ofile Drawings				TG	MV	MvN
Clearance (m)	Clearance (m)	P8	18-03-2014	Eighth Issue Preliminary Line Pr	rofile Drawings				TG	MV	MvN
10	8.2	P7	22-07-2013	Seventh Issue Preliminary Line	Profile Drawings				MW	MV	MvN
11	9.2	Rev	Date	Description					Ву	Chk	Арр
13.2	11.4			Beelline in a		(1. D					
11.9	10.1			Preliminal	ry Line Pro	DTILE D	rawings	6			
6.9	5.1			Section D	T1 (Struct	ure 10	01 to 1	050)			
>8.5	>6.7	Draw	ng Title:	Occilon D				000)			
					714/200		Originator:	TG	Checker:	MV	
		Proje	, В	orssele-Tilburg	200380		Approver:	MvN	Date:	19-08	-2014
				Movares				Postbus 2855 3500 GW Utre	cht		
				address in a second				Tel: 030 - 265	5555		
20.0 m Hori	z. Scale		htteweg 310 AB ARNHEM	Postbus 718 6800 AS ARNHEM		ZW38	80_LPC	_DT1-P	9		
3.0 m Vert	Scale	Telef				Page	13/14			Rev	P9





1002b zwm6e400.pol sta=19463.23 ht=59.30 ele=0.80	1001     Portaal RLL380 Z/G       zwm6e350.pol     portaal_380kv_dubbel       sta=19589.38     sta=19760.37       ht=52.70 ele=2.30     ht=19.55 ele=4.00	1050P2 zwm6hk400.pol sta=20262.51 ht=59.30 ele=1.39 orient angle=-5.12	٤
70			7
50.20		402.1, 398.2 59.30	
60 59.30 126.1 52.70	52.70 171.0		
50 49 30	43.90	49.30	
40 39 10	34.90	39.10	
30 28 90 23 30 25.90 23 30 21.70	25.90	28.90 28.30	
20	15,30		
10			
o the second second			
lotes:	19600 19700 19700 19600		

1. PLS CADD Model based on Survey data supplied by Fugro and post processed by Movares.

2. Phase Conductor & Earthwire properties based on cable files provided by TenneT.

3. Phase Conductor & Earthwire Stringing (New Wintrack line) based on Max Catenary 1800m @ 10°C (Creep RS).

Phase Conductor Shown (New Wintrack line) – Twin / Quad AMS 620 AAAC E/W Conductor Shown (New Wintrack line) – Hawk OPGW ACSR

Phase Conductor shown represents the middle of the bundle (500mm conductor separation new Wintrack line). RSG shown represents the center of the bundle (200mm conductor separation).

This drawing is produced using PLS-Pole Models (New Wintrack line) based on dimensions from pole drawings "000.145.11 0254226 Mastenontwerpdossier vers.zip" provided by Tennet on 13-06-2014.

7. Insulator lengths are based on the 380kV and 150kV V-brace drawings provided by Tennet on 11-02-2014.

Tower Details are shown as Follows: 1105 (Tower Number) ZWW2E400 (Tower type) sta=564.07 (Station of Tower) ht=40.89 (Tower Height) ele=9.92 (Elevation at Ground Level)

9. All dimensions are in metres.

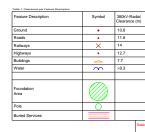
# Centre Line / Side Profile Key:

Centreline Profile Left Side Profile at -25m From Centreline. Right Side Profile at 25m From Centreline.

Conductor phase (380 kV) (Creep RS)

Conductor Key: Conductor phase (150 kV) (Creep RS)

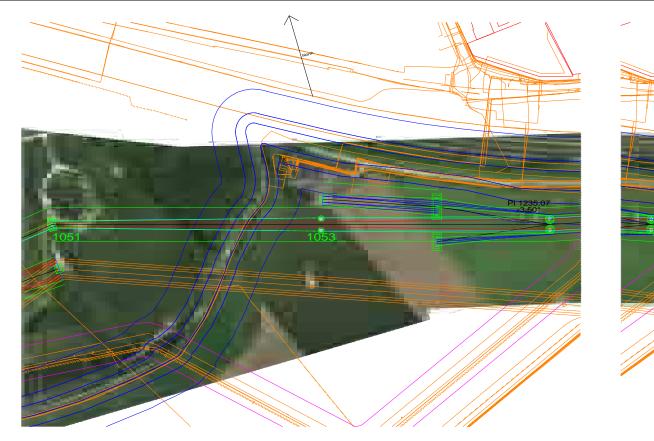
Note: Load RS / Max Sag RS Cable conditions not assessed for these preliminary profile drawings.



Earthwire shown at 15°C (Creep RS) RSG shown at -5°C + Ice (Creep RS)

150kV-Radial	0kV-Radial	P9	19-08-2014	Ninth Issue Preliminary Line Profile Drawings				TG	MV	MvN	
Clearance (m)	Clearance (m)	P8	18-03-2014		TG	MV	MvN				
10	8.2	P7	22-07-2013	07-2013 Seventh Issue Preliminary Line Profile Drawings						MvN	
11	9.2	Rev	Date	Description	Ву	Chk	Арр				
13.2	11.4			Drolinging ruling B							
11.9	10.1			Preliminary Line Profile Drawings							
6.9	5.1			Section DT1 (Strue	050)						
>8.5	>6.7	Drawi	ng Title:	Section DT1 (Structure 1001 to 1050)							
			Р	araaala Tilburg 7\//290		Originator:	TG	Checker:	MV		
		Projet	, D	orssele-Tilburg ZW380		Approver:	M∨N	Date:	19-08	-2014	
				Movares			Postbus 2855 3500 GW Utre	cht			
				antony's & separate			Tel: 030 - 265	5555			
	z. Scale		htseweg 310 AR ARNHEM	Postbus 718 6000 AS ARNHEM	Drawing Number ZW38		DT1-P	9			
3.0 m Vert	Scale	Telef Telef			Page	14/14			Rev	P9	





120	1050P1	1050A	1051	1053	1054	1055 120
	zwm6hk400.pol sta=0.00 ht=59.30 ele=0.14	zwm6s350.pol sta=219.85 ht=53.30 ele=0.79	zww2hk400.pol sta=497.81 ht=63.20 ele=1.70 line angle=24,00°	zww2s400+5.pol sta=896.34 ht=61.80 ele=1.33	zww4hk400+5s sta=1235.07 ht=68.20 ele=1	s.pol zww4hi400+5.pol sta=1597.39 .20 ht=68.20 ele=-0.75
110	orient angle=2.52		line angle=24.00°		line angle=-3.50	0° line angle=-49.50° 110
100						100
90						90
80						8
70				338.7	.7 67.60 67.60	362.3, 169.5, 169.3 67.60 <sup>7</sup>
<sup>60</sup> 59	219.8	278.0	62.60 62.60 398.5	5 61,10	57.60 57.60	57.60
<sup>50</sup> 49		52,60	52.60 52.60		47.40 47.40	47.40
<sup>40</sup> 39	9.10	43.80	42.40 42.40	43,60	37.20 37.20	
<sup>30</sup> 28		34,80	32.20 32.20	33,40		37.20
		25.80 21.60	22.10 22.10	23,10	27.10 27.10	27.10
10						
0						
	Р. 0	8	8 8 8	8 8 8	8 8 8	8 8

1. PLS CADD Model based on Survey data supplied by Fugro and post processed by Movares.

2. Phase Conductor & Earthwire properties based on cable files provided by TenneT.

3. Phase Conductor & Earthwire Stringing (New Wintrack line) based on Max Catenary 1800m @ 10°C (Creep RS).

Phase Conductor Shown (New Wintrack line) – Twin / Quad AMS 620 AAAC E/W Conductor Shown (New Wintrack line) – Hawk OPGW ACSR

Phase Conductor shown represents the middle of the bundle (500mm conductor separation new Wintrack line). RSG shown represents the center of the bundle (200mm conductor separation).

This drawing is produced using PLS-Pole Models (New Wintrack line) based on dimensions from pole drawings "000.145.11 0254226 Mastenontwerpdossier vers.zip" provided by Tennet on 13-06-2014.

7. Insulator lengths are based on the 380kV and 150kV V-brace drawings provided by Tennet on 11-02-2014.

Tower Details are shown as Follows: 1105 (Tower Number) ZWW2E400 (Tower type) sta=564.07 (Station of Tower) ht=40.89 (Tower Height) ele=9.92 (Elevation at Ground Level)

9. All dimensions are in metres.

#### Centre Line / Side Profile Key: Centreline Profile

Left Side Profile at -25m From Centreline.

Right Side Profile at 25m From Centreline.

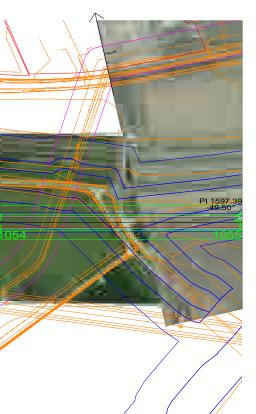
#### Conductor Key:

Conductor phase (150 kV) shown at 70°C(Creep RS) Conductor phase (380 kV) shown at 70°C (Creep RS) Earthwire shown at 15°C (Creep RS)

RSG shown at -5°C + Ice (Creep RS) Note:

Symbol 380kV-Radi Roads Railway Highway Building Buried Service

- Load RS / Max Sag RS Cable conditions not assessed for these preliminary profile drawings.



150kV-Radial Clearance (m)	0kV-Radial Clearance (m)	P2	20-02-2015	Second Issue 70°C Preliminary Li	ne Profile Dr	awings			TG	MV	MvN
10	8.2	P1	01-12-2014	Krabbendijke Alternative 4 Prelim	nary Line Pr	ofile Draw	ings		TG	MV	MvN
11	9.2	Rev	Date	Description					Ву	Chk	Арр
13.2	11.4										
11.9	10.1		70	0°C Preliminary Line F	rofile D	rawing	S				
6.9	6.1		9	ection DT2 Krabbendi	iko Altor	nativo	A (Stri	icture 10	050 -	110/	n -
>8.5	>6.7	Drawin	g Tite:	ection Diz Klabbenui	ING AILEI	native	4 (300		- 050	1104	.,
51.2	49.4		Р	orocolo Tilburg 7	1/200		Originator:	TG	Checker:	Mν	,
		Project		orssele-Tilburg Z	///////////////////////////////////////		Approver:	M∨N	Date:	20-0	2-2015
				Movares				Postbus 2855 3500 GW Utr Tel: 030 - 265	echt		
		-									
Hori	z. Scale	Utred	TENNET	Postbus 718 6800 AS ARNHEM	2	ZW38		D_DT2-F	P2_AI	LT-4	
4.0 m Vert	Scale	Telefs		E-mail : servicecentrum@tennet.eu		Page	1/15			Re	v P2



120	1055	1056	1057	1058		1059	1059A	
110	zww4hl400+5.pol sta=1597.39 ht=68.20 ele=-0.75 line angle=-49.50°	zww4s350+10.pol sta=1906.17 ht=65.60 ele=1.45	zww4s350+10 sta=2194.00 ht=65.60 ele=	0.pol zww4s350+10.pc sta=2476.17 -0.65 ht=65.60 ele=-1.	51 15	zww4hl350+10.pol sta=2769.02 ht=65.50 ele=-1.20 line angle=39.58°	zww4s400+5.pol sta=3058.32 ht=68.30 ele=-1.18	
100								
90								
80								
70								
60	67.60 308.8	3 64.90 287.8	64,90	282.2 64.90	292.9 64.90	64.90 289.3	67.60	
60 50	57.60	56 10	56,10	56 10	56.10	56.10	57.60	
40	47.40	47 10	47,10	47 10	47.10	47.10	47.40	
20 30	37.20	29.20	38.10	38 10	38.10	38.10	37.20	
10 20	27.10		29.20	29 20	29.20	29.20	27.10	
10								
O								
-10	1700	1900 2000 2100	5200	2300	5500	00 5300 5300	00000	

1. PLS CADD Model based on Survey data supplied by Fugro and post processed by Movares.

2. Phase Conductor & Earthwire properties based on cable files provided by TenneT.

3. Phase Conductor & Earthwire Stringing (New Wintrack line) based on Max Catenary 1800m @ 10°C (Creep RS). Phase Conductor Shown (New Wintrack line) – Twin / Quad AMS 620 AAAC E/W Conductor Shown (New Wintrack line) – Hawk OPGW ACSR

Phase Conductor shown represents the middle of the bundle (500mm conductor separation new Wintrack line). RSG shown represents the center of the bundle (200mm conductor separation).

This drawing is produced using PLS-Pole Models (New Wintrack line) based on dimensions from pole drawings "000.145.11 0254226 Mastenontwerpdossier vers.zip" provided by Tennet on 13-06-2014.

7. Insulator lengths are based on the 380kV and 150kV V-brace drawings provided by Tennet on 11-02-2014.

Tower Details are shown as Follows: 1105 (Tower Number) ZWW2E400 (Tower type) sta=564.07 (Station of Tower) ht=40.89 (Tower Height) ele=9.92 (Elevation at Ground Level)

9. All dimensions are in metres.

#### Centre Line / Side Profile Key: Centreline Profile

Left Side Profile at -25m From Centreline.

Right Side Profile at 25m From Centreline.

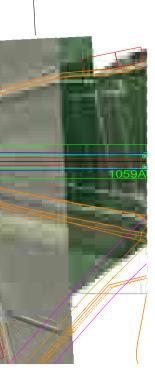
Conductor Key:

Conductor phase (150 kV) shown at 70°C(Creep RS) Conductor phase (380 kV) shown at 70°C (Creep RS) Earthwire shown at 15°C (Creep RS) RSG shown at -5°C + Ice (Creep RS)

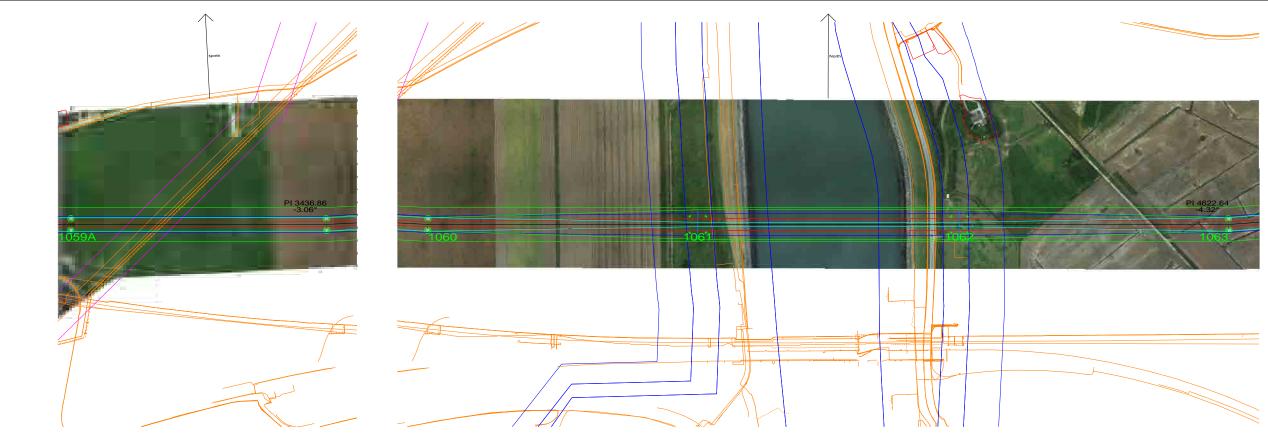
Note:



- Load RS / Max Sag RS Cable conditions not assessed for these preliminary profile drawings.



150kV-Rac Clearance		P2	20-02-2015	Second Issue 70°C Preliminary Line Profi	le Drawings			TG	мv	MVN
10	8.2	P1	01-12-2014	Krabbendijke Alternative 4 Preliminary Lir	e Profile Drav	vings		TG	MV	M∨N
11	9.2	Rev	Date	Description				ву	Chk	App
13.2	11.4		_							
11.9	10.1		70	0°C Preliminary Line Profile	e Drawing	gs				
6.9	5.1		6	ection DT2 Krabbendijke A	Itornotive	A / C+r	uoturo 10	250	110	1)
>8.5	>6.7	Drawi	ng Tide:	ection D12 Krabbenuijke A	liemative	4 (30	ucture it	- 050	1104	•)
51.2	49.4				^	Originator:	TG	Checker:	M\	/
		Projec		orssele-Tilburg ZW38	0	Approver:	M∨N	Date:	20-0	2-2015
				Mayarac			Postbus 2855	5		
				Movares			3500 GW Utr	echt		
				adviseurs & ingenieurs			Tel: 030 - 26	5 5555		
20.0 m	Horiz. Scale			Postbus 718 6600 AS ARNHEM	Drawing Number ZW3		D_DT2-F	2_A	LT-4	
4.0 m	Vert. Scale	Telef	oon :026-3731111	E-mail : servicecentrum@tennet.eu	Page	2/15			Re	v P2



120 1059A	1060	1061	1062	1063	
zww4s400+5.pol sta=3058.32 ht=68.30 ele=-1.18	zww4s400+10.pol sta=3436.86 ht=73.30 ele=-1.30 line angle=-3.06°	zwv4s400+33 sta=3836.76 ht=98.30 ele=1.60 ht adjust=0.30	zwv4s400+33 sta=4223.80 ht=98.30 ele=-0.85 ht adjust=0.30	zww4s400+10.pol sta=4622.64 ht=73.30 ele=-1.30 line angle=-4.32°	
100		98,30			
	399.9	387.0	98.30 398.8		
90		90,40 87,70	90,40		
			87 70		
80		79,10 76,40			
		76.40	79 10 76 40		
70 378.5 72.64 72.60	72.64	67.80		72.66 72.61	
67.60	72.00	65 10 6410	67,80		
60 62.63 62.67	62.63 62.61		8210	62.67 62.66 62.63	
57.60	Uzhat	55.40	55.40		
50 52.43 52.44	52.43			52.47 52.46 52.43	
47.40	Jan			0243	
40 42.23 42.24	42.23			42.27	
37.20				4223	
30 32.13 32.11	32.13 32.11			32.15 32.12	
27.10					
20					
10					
3 3 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	200 200 220 220 220 220 200 200 200 200		200 100 100 100 100 100 100 100 100 100	90	

1. PLS CADD Model based on Survey data supplied by Fugro and post processed by Movares.

2. Phase Conductor & Earthwire properties based on cable files provided by TenneT.

3. Phase Conductor & Earthwire Stringing (New Wintrack line) based on Max Catenary 1800m @ 10°C (Creep RS). Phase Conductor Shown (New Wintrack line) – Twin / Quad AMS 620 AAAC E/W Conductor Shown (New Wintrack line) – Hawk OPGW ACSR

Phase Conductor shown represents the middle of the bundle (500mm conductor separation new Wintrack line). RSG shown represents the center of the bundle (200mm conductor separation).

This drawing is produced using PLS-Pole Models (New Wintrack line) based on dimensions from pole drawings "000.145.11 0254226 Mastenontwerpdossier vers.zip" provided by Tennet on 13-06-2014.

7. Insulator lengths are based on the 380kV and 150kV V-brace drawings provided by Tennet on 11-02-2014.

Tower Details are shown as Follows: 1105 (Tower Number) ZWW2E400 (Tower type) sta=564.07 (Station of Tower) ht=40.89 (Tower Height) ele=9.92 (Elevation at Ground Level)

9. All dimensions are in metres.

# Centre Line / Side Profile Key:

Centreline Profile Left Side Profile at -25m From Centreline.

Note:

Right Side Profile at 25m From Centreline.

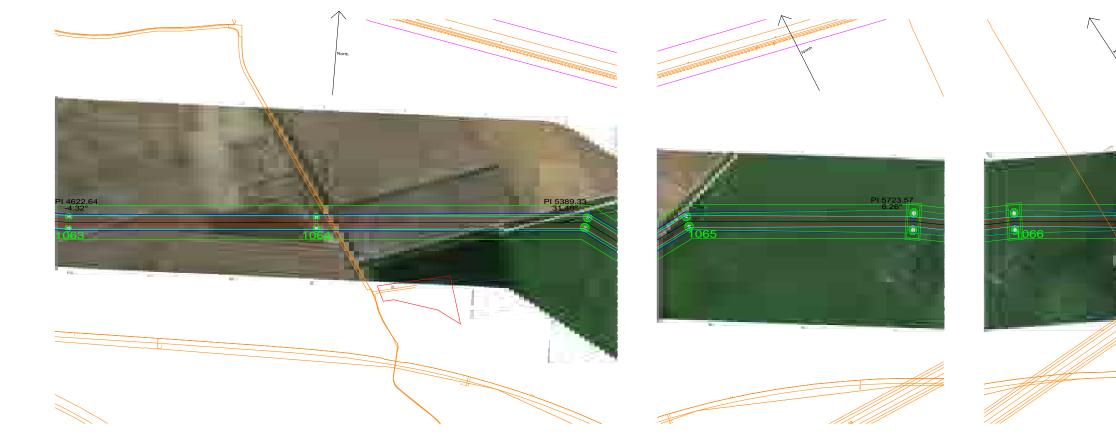
Conductor Key:

Conductor phase (150 kV) shown at 70°C(Creep RS) Conductor phase (380 kV) shown at 70°C (Creep RS) Earthwire shown at 15°C (Creep RS) RSG shown at -5°C + Ice (Creep RS)

- Load RS / Max Sag RS Cable conditions not assessed for these preliminary profile drawings.

Feature Description	Symbol	380kV-Radial Clearance (m)
Ground	•	10.8
Roads	•	11.8
Railways	×	14
Highways	•	12.7
Buildings	~	7.7
Water	3	>9.3
Zuid-Beverland Kanaal	3	52
Foundation Area		
Pole	0	
Buried Services		

		_	1						-	
150kV-Radial Clearance (m)	0kV-Radial Clearance (m)	P2	20-02-2015	Second Issue 70°C Preliminary Line Prof	ile Drawings			TG	MV	MvN
10	8.2	P1	01-12-2014	Krabbendijke Alternative 4 Preliminary Li	ne Profile Dra	wings		TG	MV	MvN
11	9.2	Rev	Date	Description				ву	Chk	Арр
13.2	11.4									
11.9	10.1		70	0°C Preliminary Line Profile	e Drawin	gs				
6.9	5.1		e	ection DT2 Krabbendijke A	Itornotiv	o 1 (C+r)	oturo 10	50	110/	n in
>8.5	>6.7	Drawin	ng Tide:	ection D12 Krabbendijke A	liemativ	e 4 (Sin	icture re	- 050	1102	•)
51.2	49.4				0	Originator:	TG	Checker:	M٧	'
		Projec		orssele-Tilburg ZW38	30	Approver:	M∨N	Date:	20-0	2-2015
				Movares			Postbus 2855			
				MUVales			3500 GW Utr	echt		
				adviseurs & ingenieurs			Tel: 030 - 265	5555		
20.0 m Hor	iz. Scale	Utrec		Postbus 718 6800 AS ARNHEM	Drawing Number ZW3		D_DT2-F	2_A	_T-4	
4.0 m Ver	L Scale	Telef	oon :026-3731111	E-mail : servicecentrum@tennet.eu	Page	3/15			Re	v P2



120	1063			1064				106	5			1066			1067	
110	zww4s400 sta=4622.0 ht=73.30 e line angle=	+10.pol 64 ele=-1.30 4.32°		zww4s400+5.p sta=4989.79 ht=68.30 ele=-	ol 0.95			zwy sta: ht= line	5 /4hl400.pol /5389.33 /3.20 ele=-1.10 angle=31.40°			zww4aa40 sta=5723. ht=63.20 e line angle	00.pol 57 ele=-0.20 =6.26°		zww4s400.pol sta=6057.52 ht=63.30 ele=0.15	
	Ū								•			Ū				
100																
90																
80																
70 <mark>72</mark>	2.66 2.61	367.2		67,60												
62 60 62	2.67 2.66 2.63				399.5		62.60	62.0	0 334	l.2 62.6	0	62.60	334.0	6	52.60	
52 50 52	2.47			57,60			52.60	52.6	0	52.6	9	52.60			52.60	
42 40 42 42				47,40			42.40	42.4	0	42.4	0	42.40			42.40	
32 30 32				37,20			32.20	32.2	0	32.2	9	32.20		;	32.20	
20				27.10			22.10	22.1	0	22.1	0	22.10		:	22.10	
			+		+											
10											-					
0		8 8	Q	Q Q	og og	Q		0	Q	0 00	-		g g	<u> </u>		

1. PLS CADD Model based on Survey data supplied by Fugro and post processed by Movares.

2. Phase Conductor & Earthwire properties based on cable files provided by TenneT.

3. Phase Conductor & Earthwire Stringing (New Wintrack line) based on Max Catenary 1800m @ 10°C (Creep RS).

Phase Conductor Shown (New Wintrack line) – Twin / Quad AMS 620 AAAC E/W Conductor Shown (New Wintrack line) – Hawk OPGW ACSR

Phase Conductor shown represents the middle of the bundle (500mm conductor separation new Wintrack line). RSG shown represents the center of the bundle (200mm conductor separation).

This drawing is produced using PLS-Pole Models (New Wintrack line) based on dimensions from pole drawings "000.145.11 0254226 Mastenontwerpdossier vers.zip" provided by Tennet on 13-06-2014.

7. Insulator lengths are based on the 380kV and 150kV V-brace drawings provided by Tennet on 11-02-2014.

Tower Details are shown as Follows: 1105 (Tower Number) ZWW2E400 (Tower type) sta=564.07 (Station of Tower) ht=40.89 (Tower Height) ele=9.92 (Elevation at Ground Level)

9. All dimensions are in metres.

# Centre Line / Side Profile Key:

Centreline Profile Left Side Profile at -25m From Centreline.

Right Side Profile at 25m From Centreline.

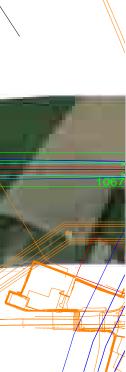
#### Conductor Key:

Note:

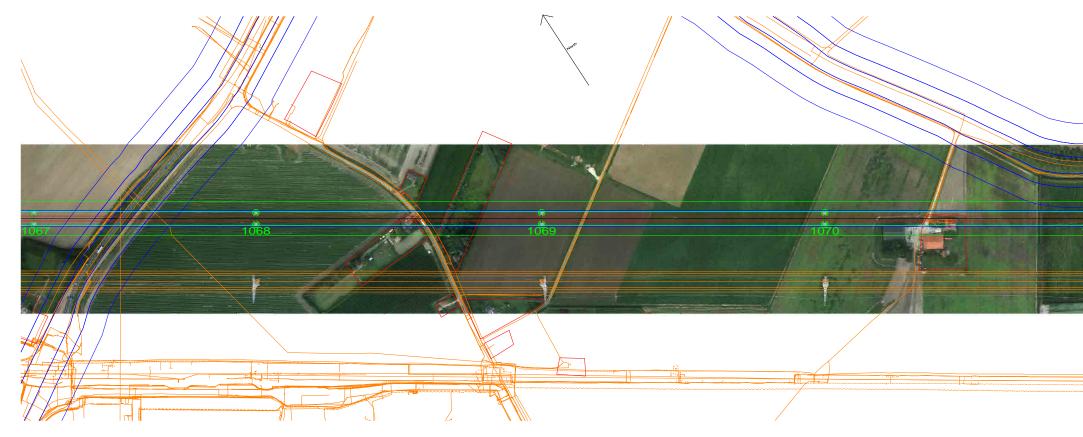
Conductor phase (150 kV) shown at 70°C(Creep RS) Conductor phase (380 kV) shown at 70°C (Creep RS) Earthwire shown at 15°C (Creep RS) RSG shown at -5°C + Ice (Creep RS)

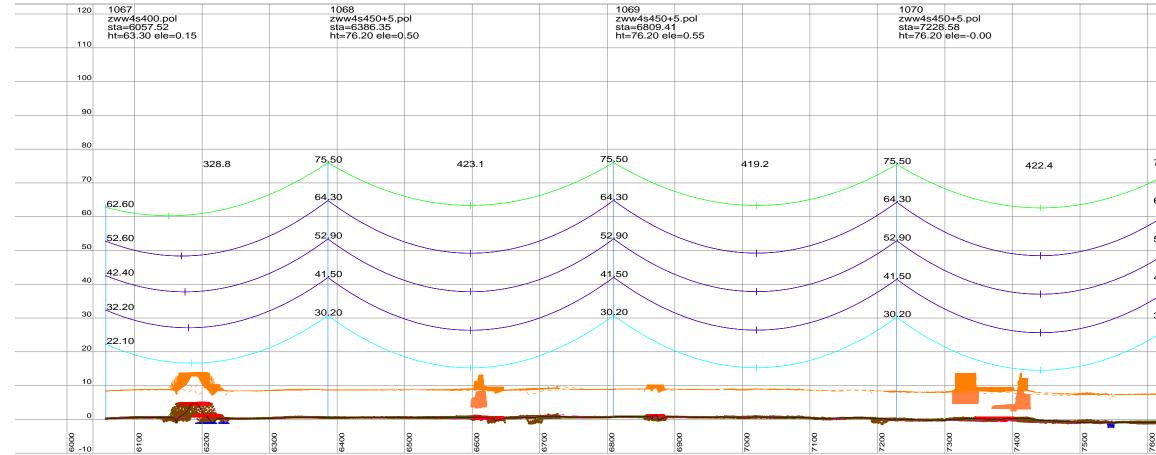
Symbol 380kV-Radia Ground Roads Railways Highway Buildings Water Buried Service

- Load RS / Max Sag RS Cable conditions not assessed for these preliminary profile drawings.



150kV-Radial Clearance (m)	0kV-Radial Clearance (m)	P2	20-02-2015	Second Issue 70°C Preliminary Line Profi	le Drawings			TG	MV	MvN
10	8.2	P1	01-12-2014	Krabbendijke Alternative 4 Preliminary Lir	e Profile Drav	wings		TG	MV	MvN
11	9.2	Rev	Date	Description				ву	Chk	Арр
13.2	11.4									
11.9	10.1		70	0°C Preliminary Line Profile	Drawing	gs				
6.9	5.1		e	ection DT2 Krabbendijke A	Itornotiv	A (C+r)	ioturo 10	50	110/	n in
>8.5	>6.7	Drawi	ng Tide:	ection D12 Krabbendijke A	itemative	9 4 (Sin	Joine II	- 050	1102	•)
51.2	49.4				0	Originator:	TG	Checker:	M٧	,
		Projec		orssele-Tilburg ZW38	0	Approver:	M∨N	Date:	20-0	2-2015
				Movares			Postbus 2855			
				MUVales			3500 GW Utr	echt		
				adviseurs & ingenieurs			Tel: 030 - 265	5555		
20.0 m Hor	iz. Scale	Utrec		Розфик 718 спор 4 с. 40 мнсти	Drawing Number ZW3		D_DT2-F	2_A	LT-4	
4.0 m Ver	t. Scale	Telef	oon :026-3731111	E-mail : servicecentrum@tennet.eu	Page	4/15			Re	v P2





1. PLS CADD Model based on Survey data supplied by Fugro and post processed by Movares.

2. Phase Conductor & Earthwire properties based on cable files provided by TenneT.

3. Phase Conductor & Earthwire Stringing (New Wintrack line) based on Max Catenary 1800m @ 10°C (Creep RS).

4. Phase Conductor Shown (New Wintrack line) – Twin / Quad AMS 620 AAAC E/W Conductor Shown (New Wintrack line) – Hawk OPGW ACSR

 Phase Conductor shown represents the middle of the bundle (500mm conductor separation new Wintrack line). RSG shown represents the center of the bundle (200mm conductor separation).

 This drawing is produced using PLS-Pole Models (New Wintrack line) based on dimensions from pole drawings "000.145.11 0254226 Mastenontwerpdossier vers.zip" provided by Tennet on 13-06-2014.

7. Insulator lengths are based on the 380kV and 150kV V-brace drawings provided by Tennet on 11-02-2014.

 Tower Details are shown as Follows: 1105 (Tower Number) ZWW2E400 (Tower type) sta=564.07 (Station of Tower) ht=40.89 (Tower Height) ele=9.92 (Elevation at Ground Level)

9. All dimensions are in metres.

# Centre Line / Side Profile Key:

Centreline Profile Left Side Profile at -25m From Centreline.

Note:

Right Side Profile at 25m From Centreline.

Conductor Key:

Conductor phase (150 kV) shown at 70°C(Creep RS) Conductor phase (380 kV) shown at 70°C (Creep RS) Earthwire shown at 15°C (Creep RS) RSG shown at -5°C + Ice (Creep RS) \_\_\_\_\_

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- Load RS / Max Sag RS Cable conditions not assessed for these preliminary profile drawings.

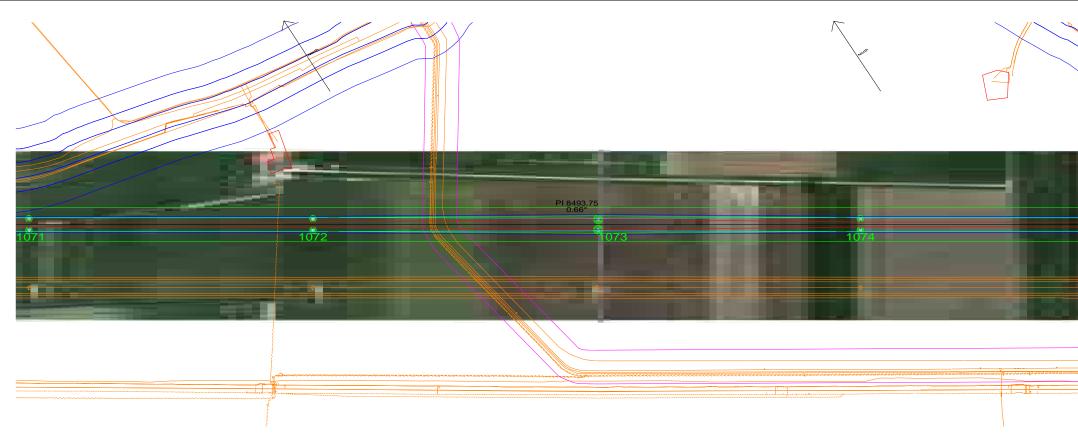
- Alternative conductor types may deviate from the temperature shown (70°C), please refer to the provided section table.

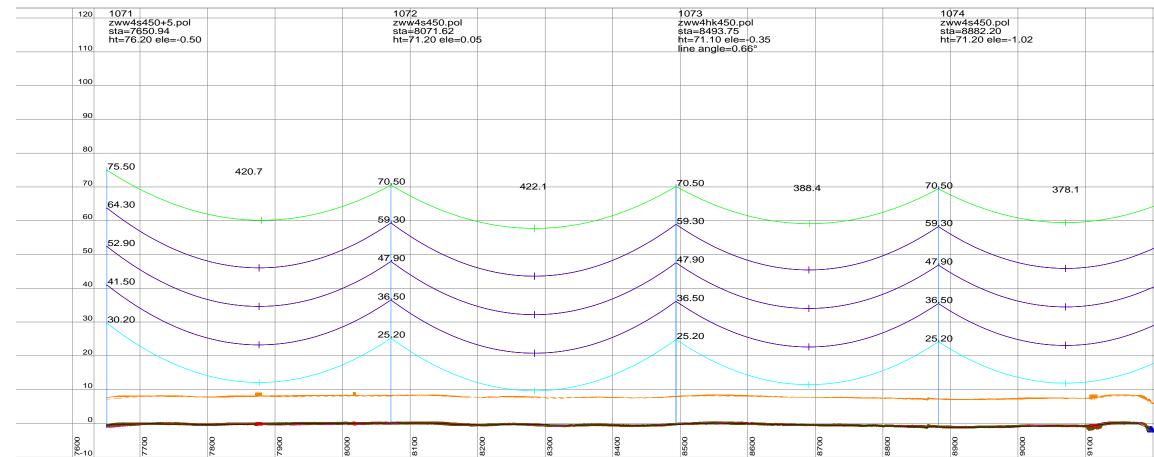
Feature Description	Symbol	380kV-Radial Clearance (m)
Ground	•	10.8
Roads	•	11.8
Railways	×	14
Highways	•	12.7
Buildings	~	7.7
Water	~	>9.3
Zuid-Beverland Kanaal	~	52
Foundation Area		
Pole	0	
Buried Services		
		5.00

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107	
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107	1
107	1
107	1
107	
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107	
107	

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	150kV-Radial	0kV-Radial											
L	Clearance (m)	Clearance (m)	P2	20-02-2015	Second Issue 70°C Preliminary Line Profile I	Drawings			TG	MV	M∨N		
Τ	10	8.2	P1	01-12-2014	Krabbendijke Alternative 4 Preliminary Line I	Profile Draw	vings		TG	MV	M∨N		
Τ	11	9.2	Rev	Date	Description				Ву	Chk	Арр		
Ι	13.2	11.4				- ·							
Ι	11.9	10.1		70	0°C Preliminary Line Profile [	Drawing	js						
T	6.9	5.1		9	Section DT2 Krabbendijke Alternative 4 (Structure 1050 - 1104)								
Τ	>8.5	>6.7	Drawin	g Tide:	ection D12 Mabbendijke Alte	mauve	- 4 (000	icture re	- 00	1104,	′ I		
	51.2	49.4		Р	orssele-Tilburg ZW380		Originator:	TG	Checker:	ΜV			
l			Project		orssele- Tiburg 200380		Approver:	M∨N	Date:	20-02	-2015		
l	l				Manual			Postbus 2855					
t					Movares			3500 GW Utre	acht				
T					adviseurs & ingenieurs			Tel: 030 - 265	5555				
1	20.0 m	· · · · ·	1	теппет		Drawing Number:							
	Horiz	z. Scale	Utrec	htseweg 310	Postbus 718	ZW38	80_LPC	DT2-P	2_AL	.T-4			
	Hand Vert	Scale	Telefs Telefs	ion :026-3731111	E-mail : servicecentrum@tennet.eu	5/15			Rev	P2			

-10





1. PLS CADD Model based on Survey data supplied by Fugro and post processed by Movares.

2. Phase Conductor & Earthwire properties based on cable files provided by TenneT.

3. Phase Conductor & Earthwire Stringing (New Wintrack line) based on Max Catenary 1800m @ 10°C (Creep RS).

Phase Conductor Shown (New Wintrack line) – Twin / Quad AMS 620 AAAC E/W Conductor Shown (New Wintrack line) – Hawk OPGW ACSR

Phase Conductor shown represents the middle of the bundle (500mm conductor separation new Wintrack line). RSG shown represents the center of the bundle (200mm conductor separation).

This drawing is produced using PLS-Pole Models (New Wintrack line) based on dimensions from pole drawings "000.145.11 0254226 Mastenontwerpdossier vers.zip" provided by Tennet on 13-06-2014.

7. Insulator lengths are based on the 380kV and 150kV V-brace drawings provided by Tennet on 11-02-2014.

Tower Details are shown as Follows: 1105 (Tower Number) ZWW2E400 (Tower type) sta=564.07 (Station of Tower) ht=40.89 (Tower Height) ele=9.92 (Elevation at Ground Level)

9. All dimensions are in metres.

# Centre Line / Side Profile Key:

Centreline Profile Left Side Profile at -25m From Centreline.

Note:

Right Side Profile at 25m From Centreline.

Conductor Key:

Conductor phase (150 kV) shown at 70°C(Creep RS) Conductor phase (380 kV) shown at 70°C (Creep RS) Earthwire shown at 15°C (Creep RS) RSG shown at -5°C + Ice (Creep RS)

- Load RS / Max Sag RS Cable conditions not assessed for these preliminary profile drawings. - Alternative conductor types may deviate from the temperature shown (70°C), please refer to the provided section table.

380kV-Radial 150k Clearance (m) Clear Symbol Ground Roads Railways Highway Buildings Water 10.8 X Foundation Buried Service

10 11 13.2 11.9 6.9 >8.5 51.2

	150kV-Radial	0kV-Radial	1								
	Clearance (m)	Clearance (m)	P2	20-02-2015	Second Issue 70°C Preliminary Line Profile D	rawings			TG	MV	M∨N
	10	8.2	P1	01-12-2014	Krabbendijke Alternative 4 Preliminary Line P	rofile Draw	/ings		TG	MV	M∨N
	11	9.2	Rev	Date	Description				Ву	Chk	App
	13.2	11.4									
٦	11.9	10.1		70	0°C Preliminary Line Profile D	Prawing	js				
	6.9	5.1		6	action DT2 Krokhandiika Alta	mosti io	4 (Chr.	atura 10	50	1101	、
	>8.5	>6.7	Drawi	ng Tide:	ection DT2 Krabbendijke Alte	mative	4 (Siru	clure ru	- 06	1104	, ,
	51.2	49.4		Р	araaala Tilburg 7\//280		Originator:	TG	Checker:	ΜV	
			Projec	. D	orssele-Tilburg ZW380		Approver:	M∨N	Date:	20-02	2-2015
					Movares			Postbus 2855			
					MUVales			3500 GW Utre	cht		
					adviseurs & ingenieurs			Tel: 030 - 265	5555		
	Hori	z. Scale	Utrec		Postbus 718	Drawing Number: ZW38	30_LPD	_DT2-P	2_AL	.T-4	
	4.0 m Vert	Scale	Telef	oon :026-3731111	E-mail : servicecentrum@tennet.eu	Page	6/15			Rev	P2

		100
		100
		90
		80
70.50		70
59.30		60
47.90		50
		40
36.50		30
25.20		20
		10
		0
9200		-10



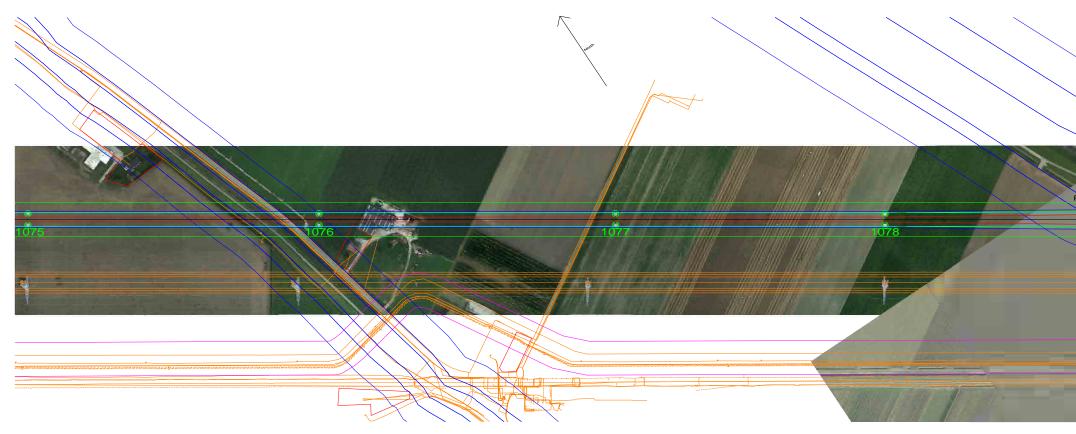
1075 zww4s450.pol sta=9260.31 ht=71.20 ele=-0.85





120

110



120 1075	1076	1077	1078	1079	
zww4s450.pol sta=9260.31 ht=71.20 ele=-0.85	1076 zww4s450.pol sta=9691.53 ht=71.20 ele=0.43	zww4s450.pol sta=10130.53 ht=71.20 ele=0.53	zww4s450.pol sta=10529.42 ht=71.20 ele=0.40	zww4hk450.pol sta=10878.98 ht=71.10 ele=0.30 line angle=-7.22°	
110				line angle=-7.22	
100					
90					
80					
	70.50	70,50	70.50	70.50	
70 70.50 431.2	439.0	0 7050	398.9 70,50 349.6	10.50	
60 59.30	59.30	59 30	5930	59.30	
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36.50	36,50	36,50	36 50	36.50	
25.20	25.20	25.20	25,20	25.20	
20					
10					
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8 8 8 8	8 8 8 8	8 8 8	8 8 8 8 8	8	
N     -10     N     4     N     0		00 00 00	0 02 03	08	

1. PLS CADD Model based on Survey data supplied by Fugro and post processed by Movares.

2. Phase Conductor & Earthwire properties based on cable files provided by TenneT. 3. Phase Conductor & Earthwire Stringing (New Wintrack line) based on Max Catenary 1800m @ 10°C (Creep RS).

Phase Conductor Shown (New Wintrack line) – Twin / Quad AMS 620 AAAC E/W Conductor Shown (New Wintrack line) – Hawk OPGW ACSR

Phase Conductor shown represents the middle of the bundle (500mm conductor separation new Wintrack line). RSG shown represents the center of the bundle (200mm conductor separation).

This drawing is produced using PLS-Pole Models (New Wintrack line) based on dimensions from pole drawings "000.145.11 0254226 Mastenontwerpdossier vers.zip" provided by Tennet on 13-06-2014.

7. Insulator lengths are based on the 380kV and 150kV V-brace drawings provided by Tennet on 11-02-2014.

Tower Details are shown as Follows: 1105 (Tower Number) ZWW2E400 (Tower type) sta=564.07 (Station of Tower) ht=40.89 (Tower Height) ele=9.92 (Elevation at Ground Level)

9. All dimensions are in metres.

# Centre Line / Side Profile Key:

Centreline Profile Left Side Profile at -25m From Centreline.

Note:

Right Side Profile at 25m From Centreline.

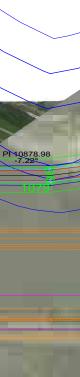
Conductor Key:

Conductor phase (150 kV) shown at 70°C(Creep RS) Conductor phase (380 kV) shown at 70°C (Creep RS) Earthwire shown at 15°C (Creep RS) RSG shown at -5°C + Ice (Creep RS)

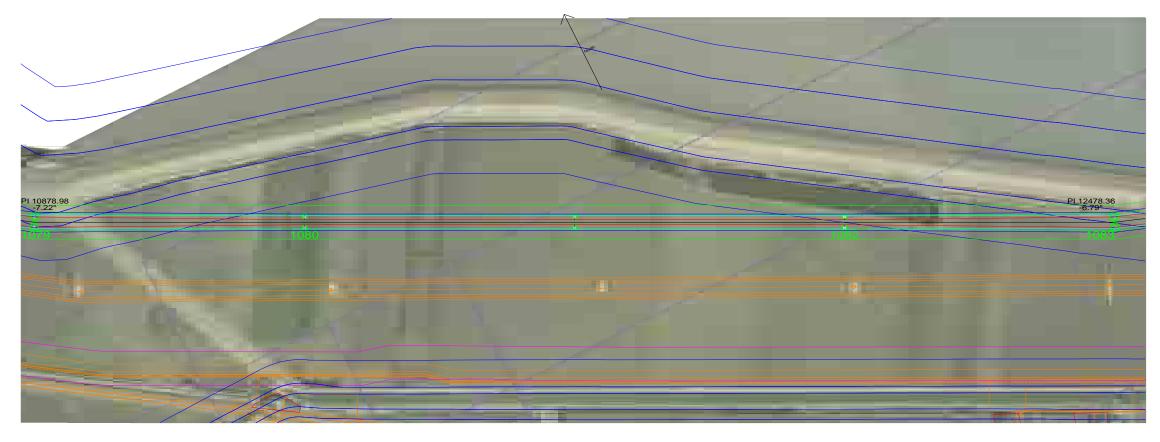
- Load RS / Max Sag RS Cable conditions not assessed for these preliminary profile drawings.

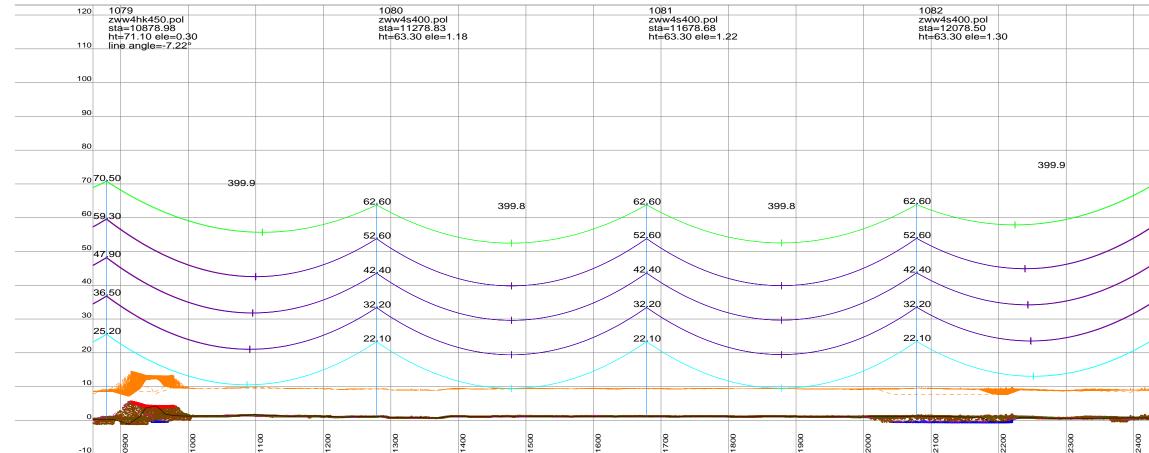
- Alternative conductor types may deviate from the temperature shown (70 $^{\circ}$ C), please refer to the provided section table.

Symbol 380kV-Radia Ground Roads Railways Highways Buildings Water Foundation Buried Service



				1						
150kV-Radial Clearance (m)	0kV-Radial Clearance (m)	P2	20-02-2015	Second Issue 70°C Preliminary Line Profile	Drawings			тg	M∨	MvN
10	8.2	P1	01-12-2014	Krabbendijke Alternative 4 Preliminary Line	e Profile Drav	wings		TG	MV	M∨N
11	9.2	Rev	Date	Description				ву	Chk	App
13.2	11.4									
11.9	10.1		70	0°C Preliminary Line Profile	Drawing	gs				
6.9	5.1		6	estion DT2 Krokkendüke Al	to reactive	A (Chr.		050	1104	N
>8.5	>6.7	Drawin	ig Title:	ection DT2 Krabbendijke Al	ternative	94 (Sin	Joine II	- 050	1104	•)
51.2	49.4		Р	araaala Tilburg 7\//29	<u></u>	Originator:	TG	Checker:	ΜV	'
		Projec		orssele-Tilburg ZW38	J	Approver:	M∨N	Date:	20-0	2-2015
				Mananaa			Postbus 2855			
				Movares			3500 GW Utr	echt		
				adviseurs & ingenieurs			Tel: 030 - 265	5555		
20.0 m Hor	iz. Scale	Utrec		Postbus 718 6800 AS ARNHEM	Drawing Number ZW3		D_DT2-F	2_A	LT-4	
4.0 m Ver	t. Scale	Telef	oon :026-3731111	E-mail : servicecentrum@tennet.eu	Page	7/15			Rev	v P2





1. PLS CADD Model based on Survey data supplied by Fugro and post processed by Movares.

2. Phase Conductor & Earthwire properties based on cable files provided by TenneT. 3. Phase Conductor & Earthwire Stringing (New Wintrack line) based on Max Catenary 1800m @ 10°C (Creep RS).

Phase Conductor Shown (New Wintrack line) – Twin / Quad AMS 620 AAAC E/W Conductor Shown (New Wintrack line) – Hawk OPGW ACSR

Phase Conductor shown represents the middle of the bundle (500mm conductor separation new Wintrack line). RSG shown represents the center of the bundle (200mm conductor separation).

This drawing is produced using PLS-Pole Models (New Wintrack line) based on dimensions from pole drawings "000.145.11 0254226 Mastenontwerpdossier vers.zip" provided by Tennet on 13-06-2014.

7. Insulator lengths are based on the 380kV and 150kV V-brace drawings provided by Tennet on 11-02-2014.

Tower Details are shown as Follows: 1105 (Tower Number) ZWW/2E400 (Tower type) sta=564.07 (Station of Tower) ht=40.89 (Tower Height) ele=9.92 (Elevation at Ground Level)

9. All dimensions are in metres.

# Centre Line / Side Profile Key:

Centreline Profile Left Side Profile at -25m From Centreline.

Right Side Profile at 25m From Centreline.

### Conductor Key:

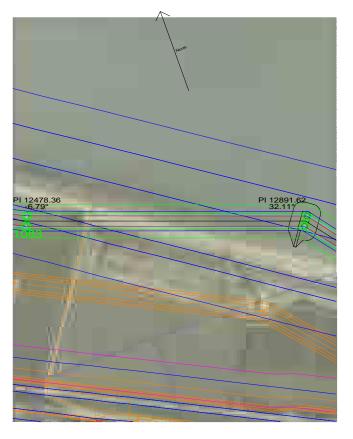
Conductor phase (150 kV) shown at 70°C(Creep RS) Conductor phase (380 kV) shown at 70°C (Creep RS) Earthwire shown at 15°C (Creep RS) RSG shown at -5°C + Ice (Creep RS)

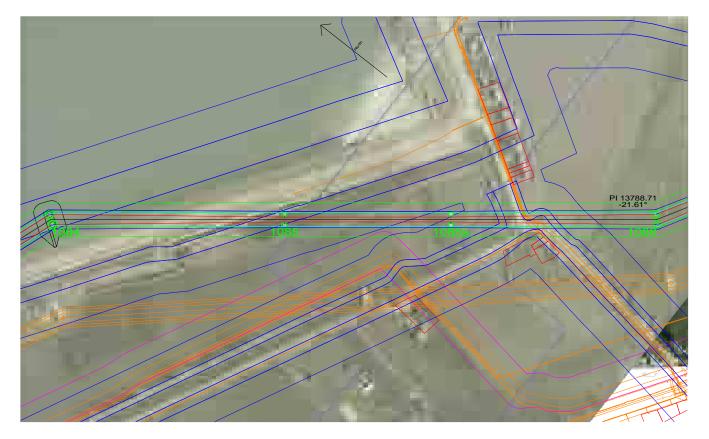
Symbol 380kV-Radia Roads Raihway Highway Building

Note: - Load RS / Max Sag RS Cable conditions not assessed for these preliminary profile drawings.

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68	
)°	110
	100
	90
	80
	70
	co.
	60
	50
	50
	40
	30
	20
	10
	0
	-10

150kV-Radial Clearance (m)	0kV-Radial Clearance (m)	P2	20-02-2015	Second Issue 70°C Preliminary Line Profile	e Drawings			TG	MV	MvN
10	8.2	P1	01-12-2014	Krabbendijke Alternative 4 Preliminary Line	Profile Drav	wings		TG	MV	MvN
11	9.2	Rev	Date	Description						App
13.2	11.4									
11.9	10.1		70	0°C Preliminary Line Profile	Drawin	gs				
6.9	6.1		6	ection DT2 Krabbendijke Al	tornotiv	A (C+r)	ioturo 10	50	1104	`
>8.5	>6.7	Drawi	ig Title:	ection D12 Krabbenuijke Al	lemative	34 (30)	ucture it	-050	1104	)
51.2	49.4		Р	araaala Tilburg 7\//29	<u></u>	Originator:	TG	Checker:	ΜV	
		Projec		orssele-Tilburg ZW38	J	Approver:	M∨N	Date:	20-0	2-2015
				Mayarac			Postbus 2855			
				Movares			3500 GW Utr	echt		
				adviseurs & ingenieurs			Tel: 030 - 265	5555		
20.0 m Hor	iz. Scale	Utrec		Postbus 718 6000 AS ARNHEM	Drawing Number ZW3		D_DT2-F	2_A	LT-4	
4.0 m Vert	. Scale	Telef	oon :026-3731111	E-mail : servicecentrum@tennet.eu	Page	8/15			Rev	/ P2





zww4hk450+5.pol	1084	1085	1085a	1086	
	zww4hl450.pol sta=12891.62	zww4s400.pol sta=13237.23	zww4s400.pol sta=13483.92	zww4hk400.pol	
sta=12478.36	sta=12891.62	sta=13237.23	sta=13483.92	sta=13788.71	
ht=76.10 ele=0.68 110 line angle=-6.79	ht=71.10 ele=5.25 line angle=32.11°	ht=63.30 ele=0.90	ht=63.30 ele=1.10	ht=63.20 ele=0.95 lihe angle=-21.61°	
	line angle=32.11				
100					
90					
80					
75,50 70.50	70.50				
413.3	345.6				
70					
64,30 59.30	59.30				
	59.30	62,60 246.7	62.60 304.8	62.60	
60^r					
52.00		50 00	52,60	53.60	
52,90 50	47.90	52,60	52.00	52.60	
		42.40	42.40	42.40	
40 41 50 36.50	36.50	42.40	42.40	42.40	
		32,20	32,20	32.20	
30 30.20 25.20	25.20	0220		02.20	
		22.10	22.10	22.10	
20					
	Q Q Q	Q Q Q	o o	Q	
	310 300	330	390	370	
	Oracles Line (Oids Desfile Kaus				
	Centre Line / Side Profile Key:				
Model based on Survey data supplied by Fugro and post processed by Movares.	Centreline Profile				
ductor & Earthwire properties based on cable files provided by TenneT.	Left Side Profile at -25m From Centreline.				
ductor & Earthwire Stringing (New Wintrack line) based on Max Catenary 1800m @ 10°C (Creep RS).	Right Side Profile at 25m From Centreline.				
auctor Snown (New Wintrack line) – Twin / Quad AMS 620 AAAC					
ctor Shown (New Wintrack line) – Hawk OPGW ACSR				alle 1: Charannes per Feature Description.	
Juctor Shown (New Wintrack line) – Twin / Quad AMS 620 AAAC cor Shown (New Wintrack line) – Hawk OPGW ACSR Juctor shown represents the middle of the bundel (500mm conductor separation new Wintrack line).					
ductor shown represents the middle of the bundel (500mm conductor separation new Wintrack line). represents the center of the bundle (200mm conductor separation).	Conductor Kour		-	Feature Description     Symbol     380kV-Radial Clearance (m)     0kV-Radial Clearance (m)     0kV-Radial P2     20-02-2015     Second Issue       200000     100000     000000     000000000     00000000000     P2     20-02-2015     Second Issue	70°C Preliminary Line Profile Drawings
	Conductor Key: Conductor phase (150 kV) shown at 70°C(Creep RS)		G		70°C Preliminary Line Profile Drawings Alternative 4 Preliminary Line Profile Drawings

Tower Details are shown as Follows: 1105 (Tower Number) ZWW2E400 (Tower type) sta=564.07 (Station of Tower) ht=40.89 (Tower Height) ele=9.92 (Elevation at Ground Level)
All dimensions are in metres.

Note:

- RSG shown at -5°C + Ice (Creep RS)

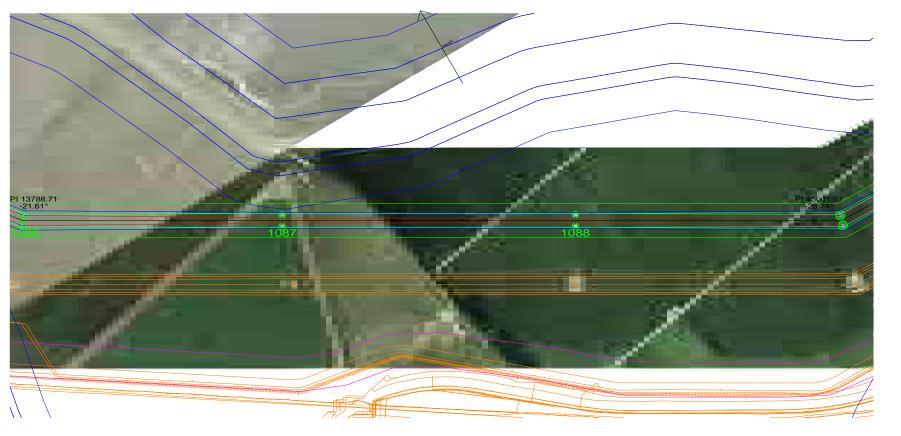
- Load RS / Max Sag RS Cable conditions not assessed for these preliminary profile drawings.

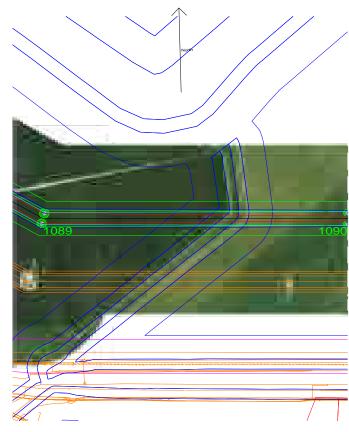
- Alternative conductor types may deviate from the temperature shown (70 $^{\circ}$ C), please refer to the provided section table.

Buried Service

Conductor phase (380 kV) shown at 70°C (Creep RS) Earthwire shown at 15°C (Creep RS)

10	8.2	1	P1	01-12-2014	Krabbend	ijke Alternative 4	Preliminary Line P	rofile Draw	ings		TG	MV	M∨N			
11	9.2	1	Rev	Date	Description						By	Chk	Арр			
13.2	11.4	1		_												
1.9	10.1	1		70	°C Pre	eliminary L	ine Profile D	Drawing	IS							
3.9	5.1	1		6	otion	ucture 10	50	1104)								
8.5	>6.7	1	Drawin	g Title:	SCHOIL	ucture it	-050	1104)	,							
1.2	49.4	]		Б			~ 71/200		Originator:	TG	Checker:	ΜV				
			Project		orsse	le-mbui	g ZW380		Approver:	M∨N	Date:	20-02	-2015			
					Movares					Postbus 2855 3500 GW Utro						
		1				adviseurs & inge	nieurs			Tel: 030 - 265	5555					
20.0 m Horiz. Scale			Utrech		Postbus	718 ADNHEM		Drawing Number: ZW38	30_LP[	D_DT2-P	2_AL	T-4				
Vert. Scale Telefon 326-3731111 E-mail : servicecentrum@tennet.eu Telefon 326-3731112 internet : www.tennet.eu					et.eu	Page	9/15			Rev	Page 9/15 Rev P2					





120	1086	1087		1088		1089	1090	
110	zww4hk400.pol sta=13788.71 ht=63.20 ele=0.95 line angle=-21.61°	zww4s450+5.pol sta=14173.08 ht=76.20 ele=-0.00	)	zww4s450+5 sta=14607.2 ht=76.20 ele	pol 1.21	zww4hk450+5.pol sta=15001.67 ht=76.10 ele≢1.05 line angle=-28.74°	zww4s450+5.pol sta=15451.59 ht=76.20 ele=1.15	
100								
90								
80								
70	384.4	75,50	434.2	75.50	394.4 75.50	75.50	449.9 75.50	
62. 60	.60	64.30		64 30	64.30	64.30	64.30	
52 50	60	52,90		52,90	52.90	52.90	52.90	
42	40	41,50		41 50	41.50	41.50	41.50	
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1. PLS CADD Model based on Survey data supplied by Fugro and post processed by Movares.

2. Phase Conductor & Earthwire properties based on cable files provided by TenneT.

3. Phase Conductor & Earthwire Stringing (New Wintrack line) based on Max Catenary 1800m @ 10°C (Creep RS).

Phase Conductor Shown (New Wintrack line) – Twin / Quad AMS 620 AAAC E/W Conductor Shown (New Wintrack line) – Hawk OPGW ACSR

Phase Conductor shown represents the middle of the bundle (500mm conductor separation new Wintrack line). RSG shown represents the center of the bundle (200mm conductor separation).

This drawing is produced using PLS-Pole Models (New Wintrack line) based on dimensions from pole drawings "000.145.11 0254226 Mastenontwerpdossier vers.zip" provided by Tennet on 13-06-2014.

7. Insulator lengths are based on the 380kV and 150kV V-brace drawings provided by Tennet on 11-02-2014.

Tower Details are shown as Follows: 1105 (Tower Number) ZWW2E400 (Tower type) sta=564.07 (Station of Tower) ht=40.89 (Tower Height) ele=9.92 (Elevation at Ground Level)

9. All dimensions are in metres.

# Centre Line / Side Profile Key:

Centreline Profile Left Side Profile at -25m From Centreline.

Note:

Right Side Profile at 25m From Centreline.

Conductor Key:

Conductor phase (380 kV) shown at 70°C (Creep RS) Earthwire shown at 15°C (Creep RS) RSG shown at -5°C + Ice (Creep RS)

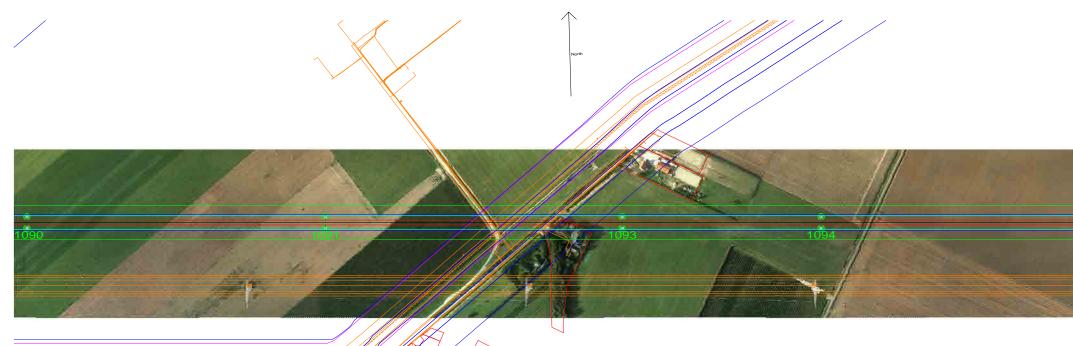
- Load RS / Max Sag RS Cable conditions not assessed for these preliminary profile drawings.

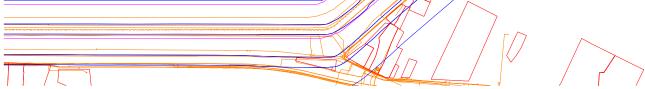
- Alternative conductor types may deviate from the temperature shown (70 $^{\circ}$ C), please refer to the provided section table.

Symbol 380kV-Radia Roads Railways Highway Buildings Water Buried Service

Conductor phase (150 kV) shown at 70°C(Creep RS)

		_		1					-	_
150kV-Radial Clearance (m)	0kV-Radial Clearance (m)	P2	20-02-2015	Second Issue 70°C Preliminary Line Profil	e Drawings			TG	MV	MvN
10	8.2	P1	01-12-2014	Krabbendijke Alternative 4 Preliminary Lin	e Profile Drav	wings		TG	MV	MvN
11	9.2	Rev	Date	Description			Ву	Chk	Арр	
13.2	11.4		-							
11.9	10.1		70	0°C Preliminary Line Profile	Drawin	gs				
6.9	5.1		6	ection DT2 Krabbendijke A	torpotiv	A / C+r	ioturo 10	50	110/	1)
>8.5	>6.7	Drawin	ig Title:	ection D12 Klabbenuijke A	ternative	4 (30)	ucture it	-050	1104	•)
51.2	49.4				^	Originator:	TG	Checker:	M٧	/
		Projec		orssele-Tilburg ZW38	0	Approver:	M∨N	Date:	20-0	2-2015
				Movares			Postbus 2855			
							3500 GW Utr	echt		
				adviseurs & ingenieurs			Tel: 030 - 265	5555		
20.0 m Hori	z. Scale	Utrec		Postbus 718	Drawing Number ZW3		D_DT2-F	2_A	LT-4	
4.0 m Vert	Scale	Telef	oon :026-3731111	1 E-mail : servicecentrum@tennet.eu	Page	10/15			Re	v P2





120 10	090			1091			1093		1094				1095	
ZV	ww4s450+5.pol ta=15451.59 t=76.20 ele=1.15			zww4s450+5. sta=15893.35 ht=76.20 ele=	pol		zww4s450.pol sta=16332.94 ht=71.20 ele=1.10		zww4s450 sta=1662 ht=71.20	).pol 7 70			zww4s450+5.pol sta=17077.67 ht=76.20 ele=1.22	
ht	t=76.20 ele=1.15			ht=76.20 ele=	1.45		ht=71.20 ele=1.10		ht=71.20	ele=1.10			ht=76.20 ele=1.22	
110														
100														
100														
90														
80	5.50		75	50									75.50	
	5.50	441.8	13		439.6						450.0		75.50	
70							70.50 294.8		70.50					
	4.30		64	.30									64.30	
	+.30												04.30	
60	$\searrow$						59 <mark>.</mark> 30		59 <mark>.</mark> 30					
52	2.90		52	.90									52.90	
50			_ 7											
00	$\sim$						47.90		47.90					
41	1.50		41	.50									41.50	
40														
							36,50		36.50					
30 30	0.20		30	.20									30.20	
30							25.20		25.20					
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20														
10										<b>_</b>				
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00-10	000	8	00	00	8	500	00	00	00	8	000	8		
ທີ-10	26	21	156	156	<u> 61</u>	100	<u>0</u>	6	6	6	80	202		

1. PLS CADD Model based on Survey data supplied by Fugro and post processed by Movares.

2. Phase Conductor & Earthwire properties based on cable files provided by TenneT.

3. Phase Conductor & Earthwire Stringing (New Wintrack line) based on Max Catenary 1800m @ 10°C (Creep RS). Phase Conductor Shown (New Wintrack line) – Twin / Quad AMS 620 AAAC E/W Conductor Shown (New Wintrack line) – Hawk OPGW ACSR

Phase Conductor shown represents the middle of the bundle (500mm conductor separation new Wintrack line). RSG shown represents the center of the bundle (200mm conductor separation).

This drawing is produced using PLS-Pole Models (New Wintrack line) based on dimensions from pole drawings "000.145.11 0254226 Mastenontwerpdossier vers.zip" provided by Tennet on 13-06-2014.

7. Insulator lengths are based on the 380kV and 150kV V-brace drawings provided by Tennet on 11-02-2014.

Tower Details are shown as Follows: 1105 (Tower Number) ZWW2E400 (Tower type) sta=564.07 (Station of Tower) ht=40.89 (Tower Height) ele=9.92 (Elevation at Ground Level)

9. All dimensions are in metres.

#### Centre Line / Side Profile Key: Centreline Profile

Left Side Profile at -25m From Centreline.

Right Side F

Conductor Key:

Conductor phase (150 kV) shown at 70°C(Creep RS) Conductor phase (380 kV) shown at 70°C (Creep RS) Earthwire shown at 15°C (Creep RS) RSG shown at -5°C + Ice (Creep RS) Note:

- Load RS / Max Sag RS Cable conditions not assessed for these preliminary profile drawings.

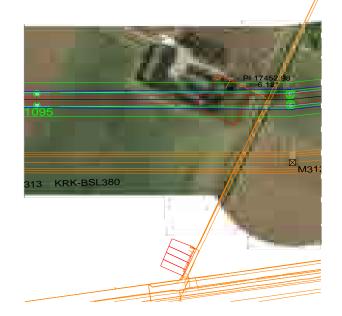
- Alternative conductor types may deviate from the temperature shown (70 $^{\circ}$ C), please refer to the provided section table.

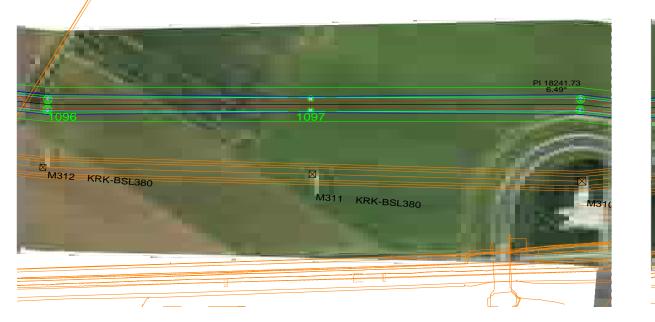
380kV-Radial 1508 Clearance (m) Clear Symbol Ground Roads Railways Highway Buildings Water Foundation Buried Service

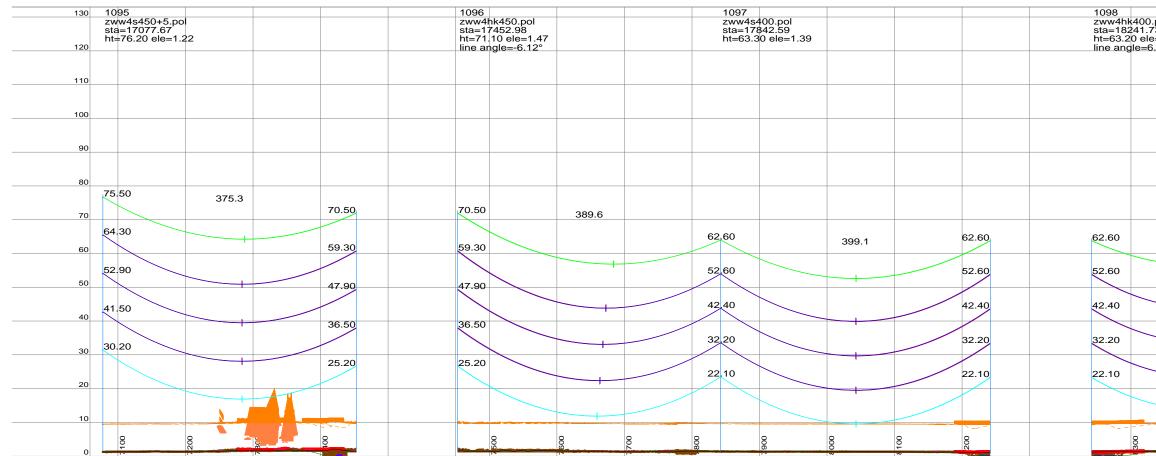
Tomo de Zonn From Oondonno.	
Profile at 25m From Centreline.	

0kV-Radial	0kV-Radial									
arance (m)	Clearance (m)	P2	20-02-2015	Second Issue 70°C Preliminary Line Profile	Drawings			TG	MV	M∨N
	8.2	P1	01-12-2014	Krabbendijke Alternative 4 Preliminary Line	Profile Drav	vings		TG	MV	MvN
-	9.2	Rev	Date	Description				ву	Chk	App
2	11.4									
Э	10.1		7	0°C Preliminary Line Profile	Drawing	js				
	5.1		~	ection DT2 Krabbendijke Al	o roo o tiu co	4 (04-		050	1104	
5	>6.7	Drawi	ng Tide:	ection D12 Krabbendijke Al	emative	9 4 (Su	ucture n	- 050	1104	9
2 49	49.4			araaala Tilburg 7\//29	Originator:	TG	Checker:	ΜV	,	
		Proje		orssele-Tilburg ZW38	J	Approver:	M∨N	Date:	20-0	2-2015
				Movares	Postbus 2855					
				MUVales			3500 GW Uti	echt		
				adviseurs & ingenieurs			Tel: 030 - 26	5 5555		
D.0 m Hori	z. Scale			Postbus 718	Drawing Number			22 11	ти	
			AR ARNHEM	GBDD AS ARNHEM	ZW380_LPD_DT2-P2_ALT-4					
-0 m Vert	Scale	Tele Tele			Page	11/15			Rev	/ P2









1. PLS CADD Model based on Survey data supplied by Fugro and post processed by Movares.

2. Phase Conductor & Earthwire properties based on cable files provided by TenneT.

3. Phase Conductor & Earthwire Stringing (New Wintrack line) based on Max Catenary 1800m @ 10°C (Creep RS).

4. Phase Conductor Shown (New Wintrack line) – Twin / Quad AMS 620 AAAC E/W Conductor Shown (New Wintrack line) – Hawk OPGW ACSR

 Phase Conductor shown represents the middle of the bundle (500mm conductor separation new Wintrack line). RSG shown represents the center of the bundle (200mm conductor separation).

 This drawing is produced using PLS-Pole Models (New Wintrack line) based on dimensions from pole drawings "000.145.11 0254226 Mastenontwerpdossier vers.zip" provided by Tennet on 13-06-2014.

7. Insulator lengths are based on the 380kV and 150kV V-brace drawings provided by Tennet on 11-02-2014.

 Tower Details are shown as Follows: 1105 (Tower Number) ZWW2E400 (Tower type) sta=564.07 (Station of Tower) ht=40.89 (Tower Height) ele=9.92 (Elevation at Ground Level)

9. All dimensions are in metres.

# Centre Line / Side Profile Key:

Centreline Profile

Left Side Profile at -25m From Centreline. Right Side Profile at 25m From Centreline.

# Conductor Key:

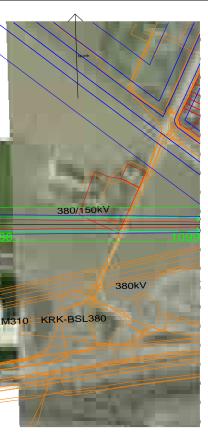
Note:

Conductor phase (150 kV) shown at 70°C(Creep RS) Conductor phase (380 kV) shown at 70°C (Creep RS) Earthwire shown at 15°C (Creep RS) RSG shown at -5°C + Ice (Creep RS) \_\_\_\_\_

- Load RS / Max Sag RS Cable conditions not assessed for these preliminary profile drawings.

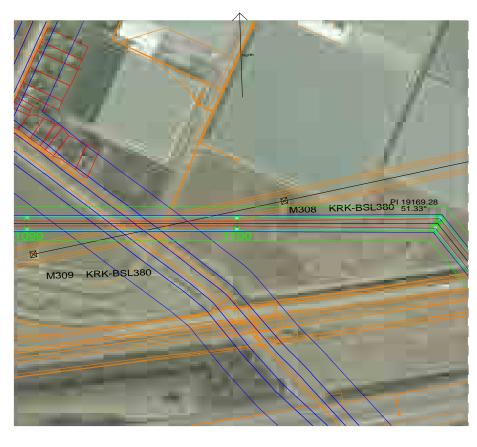
- Alternative conductor types may deviate from the temperature shown (70°C), please refer to the provided section table.

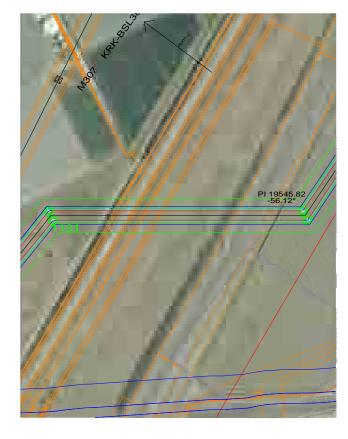
 Table 1: Check part of the intervention
 Symbol
 380kV-Radial
 Check part of the intervention
 380kV-Radial
 Check part of the intervention
 380kV-Radial
 Symbol
 180kV-Radial
 Symbol
 Symbol
 180kV-Radial
 Symbol
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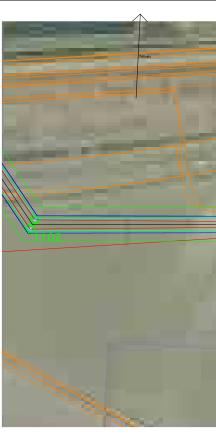


		1099		130
.pol 73 ∋=1.20 5.49°		zww4 sta=1 ht=63	\$400.pol 8561.05 3.30 ele=1.20	120
. 10				120
				110
				100
				90
				80
		62.60		70
31	9.3	62.60		60
		52.60		50
		42.40		40
		32.20		
		22.10		30
				20
				10
	400	200		0

		_		1					-	_
150kV-Radial Clearance (m)	0kV-Radial Clearance (m)	P2	20-02-2015	Second Issue 70°C Preliminary Line Profile	Drawings			TG	MV	MvN
10	8.2	P1	01-12-2014	Krabbendijke Alternative 4 Preliminary Line	Profile Drav	vings		TG	MV	M∨N
11	9.2	Rev	Date	Description				Ву	Chk	App
13.2	11.4									
11.9	10.1		70	0°C Preliminary Line Profile	Drawing	gs				
6.9	5.1		6	ection DT2 Krabbendijke Al		A (Chr.		050	1104	
>8.5	>6.7	Drawin	ig Title:	ection D12 Krabbenuijke Ar	lemative	4 (300	icture n	-050	1104	•)
51.2	49.4		Р	araaala Tilburg 7\//29	<b>`</b>	Originator:	TG	Checker:	ΜV	'
		Projec		orssele-Tilburg ZW38	)	Approver:	M∨N	Date:	20-0	2-2015
				Mananaa			Postbus 2855			
				Movares			3500 GW Utr	echt		
				adviseurs & ingenieurs			Tel: 030 - 265	5555		
20.0 m Hor	z. Scale			Postbus 718 6800 AS ARNHEM	Drawing Number ZW3		D_DT2-F	2_A	LT-4	
4.0 m Ver	t. Scale	Telef	oon :026-3731111	E-mail : servicecentrum@tennet.eu	Page	12/15			Rev	v P2







120	109	9	1100		1101		1102		1103		
110	zww sta= ht=6	4s400.pol 18561.05 33.30 ele=1.20	zww4s400.pol sta=18872.27 ht=63.30 ele=1.30	)	zww4hm400+5.pol sta=19169.28 ht=68.20 ele=1.30 line angle=51.33°		zww4hn sta=195 ht=68.20	1400+5.pol 45.82 D ele=1.20 le=-56.12°	zww4s400.pc sta=19902.7 ht=63.30 ele	ol 5 =1.20	
								IC			
100											
90											
80											
70				297.0 67.60	67.60	376.5 67.60	67.60	356.9			
60	62.6	i0 311.2 62	.60	57.60	57.60	57.60	57.60	62.6	0		
	52.6	50 52	.60	57.00	57.50	57.60	57.60	52.6	0		
50				47.40	47.40	47.40	47.40				
40	42.4		40	37.20	37.20	37.20	37.20	42.4	.0		
	32.2	32	20					32.2	0		
30				27.10	27.10	27.10	27.10				
20	22.1		.10					22.7	0		
10											
10											
0									-		
00 58 -10		8700	0068	9100	9200	9400		3800	0066		

- 1. PLS CADD Model based on Survey data supplied by Fugro and post processed by Movares.
- 2. Phase Conductor & Earthwire properties based on cable files provided by TenneT.
- 3. Phase Conductor & Earthwire Stringing (New Wintrack line) based on Max Catenary 1800m @ 10°C (Creep RS).
- Phase Conductor Shown (New Wintrack line) Twin / Quad AMS 620 AAAC E/W Conductor Shown (New Wintrack line) Hawk OPGW ACSR
- Phase Conductor shown represents the middle of the bundle (500mm conductor separation new Wintrack line). RSG shown represents the center of the bundle (200mm conductor separation).
- This drawing is produced using PLS-Pole Models (New Wintrack line) based on dimensions from pole drawings "000.145.11 0254226 Mastenontwerpdossier vers.zip" provided by Tennet on 13-06-2014.
- 7. Insulator lengths are based on the 380kV and 150kV V-brace drawings provided by Tennet on 11-02-2014.
- Tower Details are shown as Follows: 1105 (Tower Number) ZWW2E400 (Tower type) sta=564.07 (Station of Tower) ht=40.89 (Tower Height) ele=9.92 (Elevation at Ground Level)
- 9. All dimensions are in metres.

# Centre Line / Side Profile Key:

Centreline Profile Left Side Profile at -25m From Centreline.

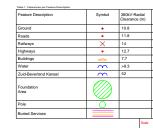
Note:

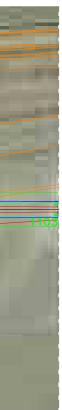
Right Side Profile at 25m From Centreline.

Conductor Key:

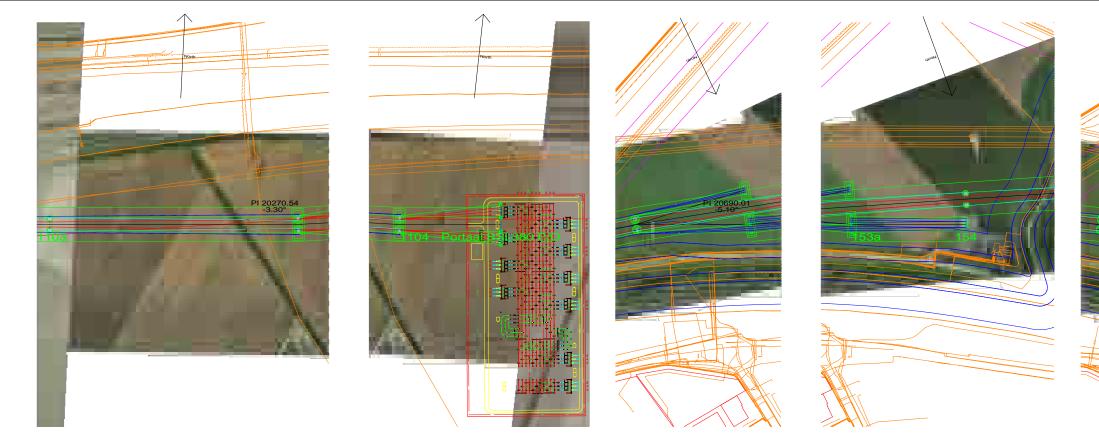
Conductor phase (150 kV) shown at 70°C(Creep RS) Conductor phase (380 kV) shown at 70°C (Creep RS) Earthwire shown at 15°C (Creep RS) RSG shown at -5°C + Ice (Creep RS)

- Load RS / Max Sag RS Cable conditions not assessed for these preliminary profile drawings.





150kV-Radial Clearance (m)	0kV-Radial Clearance (m)	P2	20-02-2015	Second Issue 70°C Preliminary Line Profile	e Drawings			TG	MV	M∨N
10	8.2	P1	01-12-2014	Krabbendijke Alternative 4 Preliminary Line	Profile Drav	wings		TG	MV	MvN.
11	9.2	Rev	Date	Description				Ву	Chk	Арр
13.2	11.4		_							
11.9	10.1		70°C Preliminary Line Profile Drawings Section DT2 Krabbendijke Alternative 4 (Structure 1050 - 1104)							
6.9	5.1									
>8.5	>6.7	Drawin	ig Title:	Section D12 Mabbenuijke Alternative 4 (Structure 10						<i>,</i>
51.2	49.4		Р	araaala Tilburg 7\//29	n	Originator:	TG	Checker:	MV	
		Projec		orssele-Tilburg ZW38	J	Approver:	M∨N	Date:	20-0	2-2015
				Movares adviseurs & ingenieurs			Postbus 2855 3500 GW Utr Tel: 030 - 265	echt		
20.0 m Hori	z. Scale	43		Postbus 718 6800 AS ARNHEM	Drawing Number ZW3		D DT2-F	2 AI	_T-4	



130 1	1103	1104		153a	153b	
2	zww4s400.pol sta=19902.75 ht=63.30 ele=1.20	zww4ae400.pol sta=20270.54 ht=63.20 ele=0.50 line angle=-3.30°		portaal_150kv_dubbel sta=20690.01 ht=18.25 ele=1.28	portaal_150kv_enkel sta=21128.84 ht=18.25 ele=1.40 orient angle=8.60	
120				orient angle=-6.00 line angle=-5.10°		
110		Portaal BSL380 P/O 380kv_portaal_versch	uiving20m_rll380	154 vakwerk_t13		
100		380kv_portaal_versch sta=20420.54 ht=24.00 ele=1.50 orient angle=-0.50		sta=20859.49 ht=39.20 ele=1.45		
90						
80						
70			€ 362.3, 169.5, 169.3		362.3, 169.5, 169.3	
60	62.60 367.8 62.60	62.60 150.0				
50	52.60 52.60	52.60				
40	42.40 42.40	42.40				
	32.20 32.20	32.20		169.5 34.80 32.29		
	22.10 22.10		18.00	26,49	18,00	
10			14.25	18:00 14:25	14.25	
		20 30 30	80	00 00 006		

1. PLS CADD Model based on Survey data supplied by Fugro and post processed by Movares.

2. Phase Conductor & Earthwire properties based on cable files provided by TenneT. 3. Phase Conductor & Earthwire Stringing (New Wintrack line) based on Max Catenary 1800m @ 10°C (Creep RS).

Phase Conductor Shown (New Wintrack line) – Twin / Quad AMS 620 AAAC E/W Conductor Shown (New Wintrack line) – Hawk OPGW ACSR

Phase Conductor shown represents the middle of the bundle (500mm conductor separation new Wintrack line). RSG shown represents the center of the bundle (200mm conductor separation).

This drawing is produced using PLS-Pole Models (New Wintrack line) based on dimensions from pole drawings "000.145.11 0254226 Mastenontwerpdossier vers.zip" provided by Tennet on 13-06-2014.

7. Insulator lengths are based on the 380kV and 150kV V-brace drawings provided by Tennet on 11-02-2014.

Tower Details are shown as Follows: 1105 (Tower Number) ZWW2E400 (Tower type) sta=564.07 (Station of Tower) ht=40.89 (Tower Height) ele=9.92 (Elevation at Ground Level)

9. All dimensions are in metres.

# Centre Line / Side Profile Key:

Centreline Profile Left Side Profile at -25m From Centreline.

Right Side Profile at 25m From Centreline.

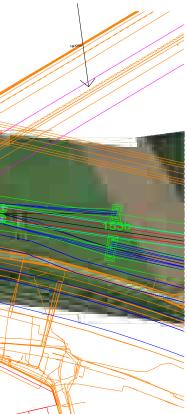
#### Conductor Key:

Conductor phase (150 kV) shown at 70°C(Creep RS) Conductor phase (380 kV) shown at 70°C (Creep RS) Earthwire shown at 15°C (Creep RS) RSG shown at -5°C + Ice (Creep RS)

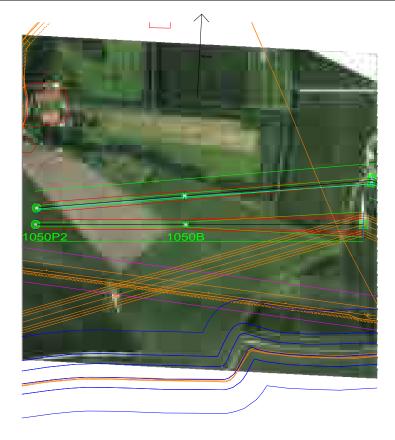
Note:

- Load RS / Max Sag RS Cable conditions not assessed for these preliminary profile drawings.





150kV-Radial Clearance (m)	0kV-Radial Clearance (m)	P2	20-02-2015	Second Issue 70°C Preliminary Line Prof	le Drawings			TG	MV	M∨N
10	8.2	P1	01-12-2014	Krabbendijke Alternative 4 Preliminary Li	ne Profile Drav	wings		TG	MV	M∨N
11	9.2	Rev	Date	Description				ву	Chk	Арр
13.2	11.4		_							
11.9	10.1		70°C Preliminary Line Profile Drawings							
6.9	5.1									
>8.5	>6.7	Drawin	Section DT2 Krabbendijke Alternative 4 (Structure 1050 - 11							9
51.2	49.4				0	Originator:	TG	Checker:	ΜV	
		Projec	ŧ В	orssele-Tilburg ZW38	0	Approver:	MvN	Date:	20-0	2-2015
				Manag			Postbus 2855			
				Movares			3500 GW Utre	echt		
				adviseurs & ingenieurs			Tel: 030 - 265	5555		
20.0 m Hor	Horiz. Scale Utrechteweg 310					Drawing Number: ZW380_LPD_DT2-P2_ALT-4			_T-4	
4.0 m Ver	t. Scale	Telef	oon :026-3731111	E-mail : servicecentrum@tennet.eu	Page	14/15			Re	/ P2



130	1050P2 105 zwm6bk400 pol zwr	0B m6s350.pol	M354 vakwerk_bb+5					
	1050P2     105       zwm6hk400.pol     zwr       sta=21228.84     sta=       ht=59.30     ele=0.14     ht=4       orient angle=8.95	0B n6s350.pol =21451.08 53.30 ele=0.80	M354 vakwerk_hb+5 sta≑21714.41 ht=50.50 ele=1.40 ht adjust=0.50					
120	orient angle=8.95		ht adjust=0.50					
110					 			
100								
90								
80				 	 			
70								
70								
<sup>60</sup> 5	59,30				 			
	222.2 52,63	263.3						
<sup>50</sup> 4	19.30	200.0	48.50 44.50	 				
40 0	43 81		44,50					
	39,10 34,81	+	33,20					
<sup>30</sup> 2	28,90			 	 			
	25.80							
20								
10					 			
Q	8 8	8	8					
2 <b>P</b> 2(		ũ						

1. PLS CADD Model based on Survey data supplied by Fugro and post processed by Movares.

2. Phase Conductor & Earthwire properties based on cable files provided by TenneT. 3. Phase Conductor & Earthwire Stringing (New Wintrack line) based on Max Catenary 1800m @ 10°C (Creep RS).

Phase Conductor Shown (New Wintrack line) – Twin / Quad AMS 620 AAAC E/W Conductor Shown (New Wintrack line) – Hawk OPGW ACSR

Phase Conductor shown represents the middle of the bundle (500mm conductor separation new Wintrack line). RSG shown represents the center of the bundle (200mm conductor separation).

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7. Insulator lengths are based on the 380kV and 150kV V-brace drawings provided by Tennet on 11-02-2014.

Tower Details are shown as Follows: 1105 (Tower Number) ZWW2E400 (Tower type) sta=564.07 (Station of Tower) ht=40.89 (Tower Height) ele=9.92 (Elevation at Ground Level)

9. All dimensions are in metres.

# Centre Line / Side Profile Key:

Centreline Profile Left Side Profile at -25m From Centreline.

Right Side Profile at 25m From Centreline.

#### Conductor Key:

Conductor phase (150 kV) shown at 70°C(Creep RS) Conductor phase (380 kV) shown at 70°C (Creep RS) Earthwire shown at 15°C (Creep RS) RSG shown at -5°C + Ice (Creep RS) Note:

- Load RS / Max Sag RS Cable conditions not assessed for these preliminary profile drawings.



150kV-Radial	0kV-Radial							1	1	
Clearance (m)	Clearance (m)	P2	20-02-2015	Second Issue 70°C Preliminary Line P	rofile Drawings			TG	MV	MvN
10	8.2	P1 01-12-2014 Krabbendijke Alternative 4 Preliminary Line Profile Drawings						TG	MV	MVN
11	9.2	Rev Date Description						Ву	Chk	App
13.2	11.4		_							
11.9	10.1		70	0°C Preliminary Line Prof	ile Drawing	gs				
6.9	5.1		8	ection DT2 Krabbendijke	Alternative	A (Stri	icture 1	050 -	1104	n
>8.5	>6.7	Drawl	ing Tide:		/ definative	, + (000		000	110-	·)
51.2	49.4		B	orssele-Tilburg ZW3	280	Originator:	TG	Checker:	M٧	r
		Proje		orssele-flibuly 2003	80	Approver:	M∨N	Date:	20-0	2-2015
							Postbus 285			
	<u> </u>			Movares			3500 GW Utr			
	<u> </u>			adviseurs & ingenieurs			Tel: 030 - 26			
		-	теплет	Party PARTICILE Date ()	Drawing Number					
20.0 m Hor	riz. Scale		chaseweg 310	Posibus 718			D DT2-F	2 A	LT-4	
4.0 m Ver	t. Scale	6013 Tele Tele			Page	15/15		_	Re	v P2

PLS-CADD	Drawing



Bijlage 6 Lijst Waterschapswegen

	: TenneT 380 kV
Datum	: 23-4-2015
Versie	:1
Kenmerk	: TNT-WSW-KEUR-Uitr-380w

# Lijst Waterschapswegen Uitritten DT 1 & 2

DT	Locatie (Mast)	Gemeente	Weg	Opmerkingen
1	1001	Borsele	Weelhoekweg	1002a, 1002b, T1B en T1a dezelfde werkweg
1	1003	Borsele	Kaaiweg	
1	1004	Borsele	Kaaiweg	1005 en 2 haspelier locaties dezelfde werkweg
1	1006	Borsele	Jurjaneweg	
1	1006 - 1007	Borsele	Korte Noordweg	Ten behoeve van aanvoerroute jukken
1	1007	Borsele	Korte Noordweg	
1	1008	Borsele	Vaathoekweg	
1	1008 - 1009	Borsele	s Heerenhoeksedijk	
1	1009 1010	Borsele Borsele	s-Heerenhoeksedijk	
1	1010 - 1011	Borsele	West Langeweg West Langeweg	Werkterrein tussen beide masten
1	1010 - 1011	Borsele	West Langeweg	
1	1012	Borsele	Beeldhoeveweg	
1	1013	Borsele	Beeldhoeveweg	
1	1014	Borsele	Vroonhoek	
1	1015	Borsele	Vroonhoek	
1	1016	Borsele	Slake	
1	1017	Borsele	Nieuwkamersedijk	21A, 21B en 22N dezelfde werkweg
1	21N	Borsele	Nieuwkamersedijk	-
1	1018	Borsele	Nieuwkamersedijk	
1	1019	Borsele	Nieuwkamerseweg	
1	1020	Borsele	Nieuwkamerseweg	
1	1021	Borsele	Oudekamerseweg	Haspelier locatie dezelfde werkweg
1	1022	Borsele	Oude Kamerseweg	
1	1023	Borsele	Oude Kamerseweg	
1	1024	Borsele	Zuidzaksedijk	
1	1025	Borsele	Zuidzaksedijk	
1	1026	Borsele	Grotedijk	
1	1027	Borsele	Bimmelseweg	
1	1027 - 1028	Borsele	Bimmelseweg	Werkterrein tussen beide masten
1	1028	Borsele	Bimmelseweg	Marcal Constant and the State and the second second
1	1028 - 1029 1029	Borsele Borsele	Bimmelseweg	Werkterrein tussen beide masten
1	1029	Borsele	Bimmelseweg Noordhoekweg	
1	1030	Borsele	Noordhoekweg	
1	1032	Borsele	Noordhoekweg	
1	1033	Borsele	Noordhoekweg	
1	1034	Borsele	Noordhoekweg	
1	1035	Borsele	Noordhoekweg	
1	1036	Borsele	Noordhoekweg	2 haspelier locaties gebruiken dezelfde werkweg
1	1037	Borsele	Noordhoekweg	
1	1038	Borsele	Kloetingseweg	
1	1039	Borsele	Bosseweg	
1	1039 - 1039A	Borsele	Bosseweg	Werkterrein tussen beide masten
1	1039A	Borsele	Bosseweg	
1	1040	Borsele	Bosseweg	Haspelier locatie dezelfde werkweg
1	1042	Kapelle	Pietersweg	
1	1043	Kapelle	Daniëlsweg	
1	1044	Kapelle	Daniëlsweg	
1	1044 - 1045	Kapelle	Stadhoekweg	Werkterrein tussen beide masten
1	1045	Kapelle	Vierwegen	
1	1046 1047	Kapelle	Eversdijkse Bredeweg	+
1 1	1047	Kapelle	Eversdijkse Bredeweg	+
1	1048	Kapelle Kapelle	Eversdijkse Bredeweg Eversdijkse Bredeweg	
1	1048	Kapelle	Eversdijkse Bredeweg	1049 gebruikt dezelfde werkweg
1	1048	Kapelle	Eversdijkseweg	1050A, 1050B haspelier locaties dezelfde werkweg
-	1000			
2	1051	Kapelle	Witte Weelweg	M354 gebruikt dezelde werkweg
2	1053	Kapelle	Witte Weelweg	154 gebruikt dezelfde werkweg
2	153a	Kapelle	Witte Weelweg	153b gebruikt dezelfde werkweg
2	1054	Kapelle	Witte Weelweg	
2	1055	Kapelle	Nieuwe Schoorseweg	
2	1055 -1056	Kapelle	Nieuwe Schoorseweg	Werkterrein tussen beide masten
2	1058 - 1059	Kapelle	Kelhoekseweg	Werkterrein tussen beide masten
2	1059	Kapelle	Kelhoekseweg	
2	1059A	Kapelle	Kelhoekseweg	
2	1060	Kapelle	Schoorse Bredeweg	
2	1061	Kapelle	Noordeweg	
2	1062	Reimerswaal	Kanaalweg	1063 gebruikt dezelfde werkweg

			Lijst Waterschapswegen Uitritten DT 1 & 2	
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Datum	: 23-4-2015			
Versie	:1			
Kenmerk	: TNT-WSW-KEUR	-Uitr-380w		
DT	Locatie (Mast)	Gemeente	Weg	Opmerkingen
2	1064	Reimerswaal	Kamperweg	
2	1065	Reimerswaal	Kamperweg	1066 gebruikt dezelfde werkweg
2	1069	Reimerswaal	Trenteweg	
2	1070	Reimerswaal	Olzendedijk	
2	1071	Reimerswaal	Noordpoolweg	
2	1072	Reimerswaal	Vaathoekseweg	
2	1073	Reimerswaal	Vaathoekseweg	
2	1074	Reimerswaal	Vaathoekseweg	
2	1075	Reimerswaal	Nieuwlandse Binnendijk	
2	1076	Reimerswaal	Inundatieweg	
2	1077	Reimerswaal	Kruisweg	
2	1078	Reimerswaal	Windgat	
2	1079	Reimerswaal	Windgat	
2	1080	Reimerswaal	Platte Bank	
2	1081	Reimerswaal	Platte Bank	
2	1082	Reimerswaal	Platte Bank	
2	1083	Reimerswaal	Verlengde Noordweg	
2	1084	Reimerswaal	Platte Bank	
2	1085	Reimerswaal	Platte Bank	
2	1085a	Reimerswaal	Roelshoekweg	
2	1086	Reimerswaal	Noordschans	
2	1090	Reimerswaal	Tarweplaat	
2	1091	Reimerswaal	Dwarsweg	
2	1093	Reimerswaal	Drie Haasjes	
2	1094	Reimerswaal	Eerste Weg	
2	1095	Reimerswaal	Eerste Weg	
2	1096	Reimerswaal	Tweede Weg	
2	1099	Reimerswaal	Lindeweg	
2	1100	Reimerswaal	Nieuwe Dwarsweg	1101 gebruikt dezelfde werkweg
2	1102	Reimerswaal	Zuidhof	1103 en 1104 gebruiken dezelfde werkweg