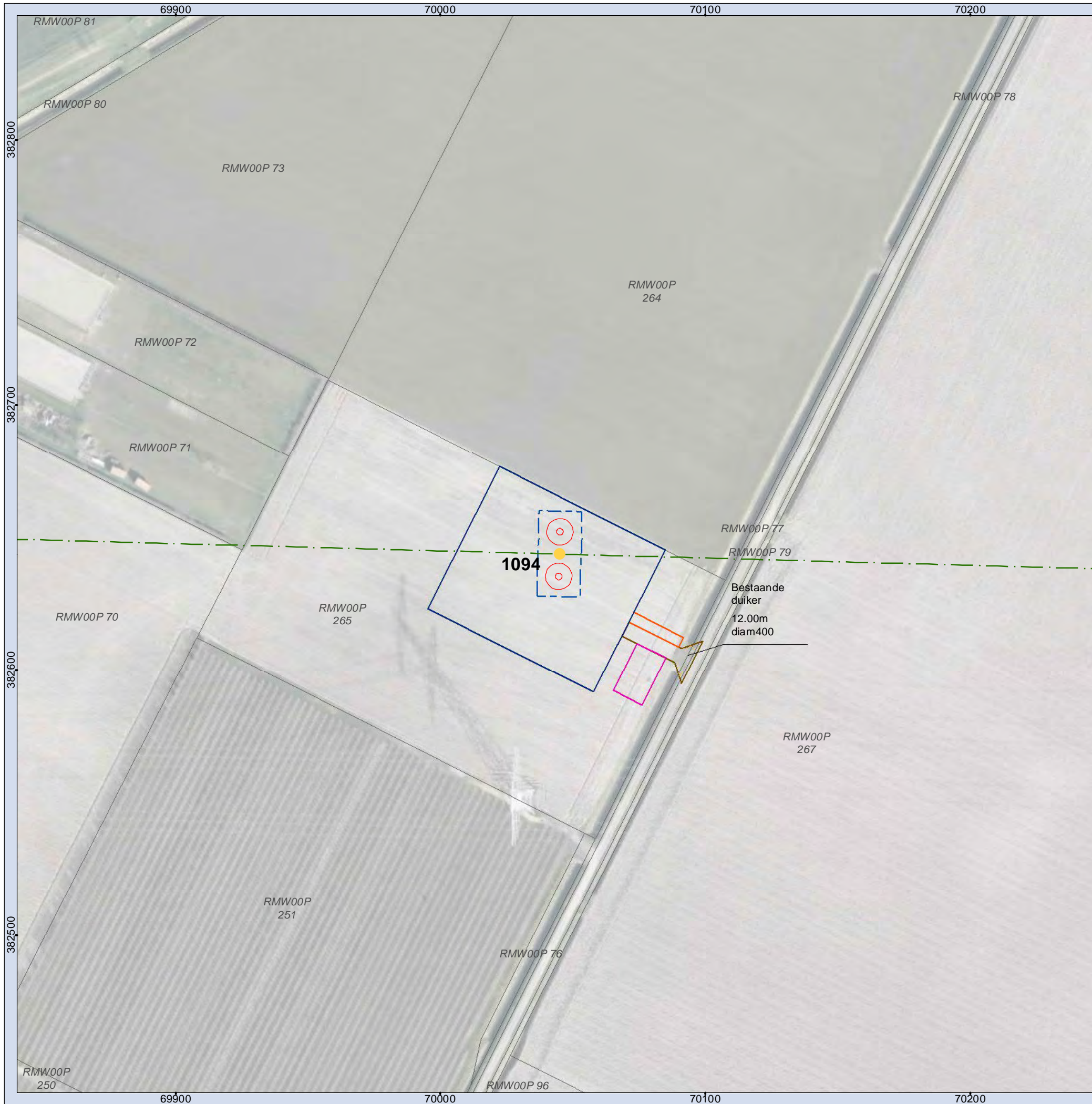


Bijlagedijst Waterwet ZW380kV TenneT, d.d. 10 oktober 2016

Map	Titel	Datum	Versie	Tekening/documentnummer	Vergunning	Opmerkingen
1	Overzichtskaarten en Mastenlijst					
	Overzicht Zuid-West 380 kV Borssele-Rilland	feb-15		150227p zw380 ZW-W zeeland A2	Waterwet	
	Tracé ZW380kV Gemeente Borsele	5-10-2016		161005pp_zw-w380 Borssele A0	Waterwet	
	Tracé ZW380kV Gemeente Kapelle	5-10-2016		161005p_zw-w380 Kapelle A0	Waterwet	
	Tracé ZW380kV Gemeente Reimerswaal	5-10-2016		161005p_zw-w380 Reimerswaal A0	Waterwet	
	Mastenlijsten Borsele, Kapelle, Reimerswaal	6-7-2016			Waterwet	
					Waterwet	
2	Situatietekeningen					
	VKA 3.0 Gemeente Borsele	5-10-2016	VKA 3.0	161005p_zw-w380 Borsele	Waterwet	
	VKA 3.0 Gemeente Kapelle	5-10-2016	VKA 3.0	1610054p_zw-w380 Kapelle	Waterwet	
	VKA 3.0 Gemeente Reimerswaal	5-10-2016	VKA 3.0	161005p_zw-w380 Reimerswaal	Waterwet	
3	Vergunningenkaarten					
	Vergunningenkaarten werkwegen en werkerreinen	3-10-2016	V4		Waterwet	
4	Kadastrale Gegevens					
	Kadastrale lijst	24-4-2015	1.0	Kadastrale percelen waterwet	Waterwet	
5	Berekeningen stabiliteit masten waterkering					
	Stabiliteit hoogspanningsmasten (traject DT2) bij waterkering	14-4-2015	definitief	AH662-1/15-006.292	Waterwet	
6	Bemalingsadviezen					
	Bemalingsadvies 380kV ZuidWest, Zeeuws tracé	19-2-2015	D5	GM-0154269	Waterwet	
	Aanvullend bemalingsadvies, 380 kV-ZuidWest, Zeeuws tracé	8-1-2015	DO	GM-0150945	Waterwet	
	Geohydrologisch onderzoek masten 1050A en B, 1051 en 1053 Monitoring en effectenstudie naar zoet grondwater	apr-15	D2	GM-0159555	Waterwet	
7	Lengteprofielen					
	Preliminary Line Profile Drawings Section DT1	12-7-2016	P11	ZW380_LPD_DT1-P11	Waterwet	Blad 1 tot en met 14 van 14
	Preliminary Line Profile Drawings Section DT2	12-7-2016	P10	ZW380-DT2-P10	Waterwet	Blad 1 tot en met 15 van 15
8	Rapporten 150kV kabels					
	Rapportage 150kV trace Zuid-West Kabeltracé 1: Willem-Annapolder	21-10-2013	Definitief	B02032.000500.0100	Waterwet	
	Rapportage 150kV tracé zuid-west Kabeltracé 2: Kruiningen	24-4-2014	Definitief	077561738:A	Waterwet	
9	Dwarsprofielen 150kV kabels					
	Dwarsprofiel 150kV Kruiningen	14-1-2014	concept		Waterwet	
	Dwarsprofiel 150KV Willem-Annapolder	4-9-2013			Waterwet	
10	Dwarsprofielen masten in watergangen					
	Dwarsprofiel ter plaatse van mast 1016	28-4-2015	Definitief	315112-PROF-MAST-1016	Waterwet	
	Dwarsprofiel ter plaatse van mast 1019	28-4-2015	Definitief	315112-PROF-MAST-1019	Waterwet	
	Dwarsprofiel ter plaatse van mast 1036	28-4-2015	Definitief	315112-PROF-MAST-1036	Waterwet	
	Dwarsprofiel ter plaatse van mast 1043	28-4-2015	Definitief	315112-PROF-MAST-1043	Waterwet	
	Dwarsprofiel ter plaatse van mast 1044	28-4-2015	Definitief	315112-PROF-MAST-1044	Waterwet	
	Dwarsprofiel ter plaatse van mast 1046	28-4-2015	Definitief	315112-PROF-MAST-1046	Waterwet	
	Dwarsprofiel ter plaatse van mast 1051	28-4-2015	Definitief	315112-PROF-MAST-1051	Waterwet	

Bijlage 3
Vergunningenkaarten
werkwegen en werkterreinen
(deel 2)



Legenda

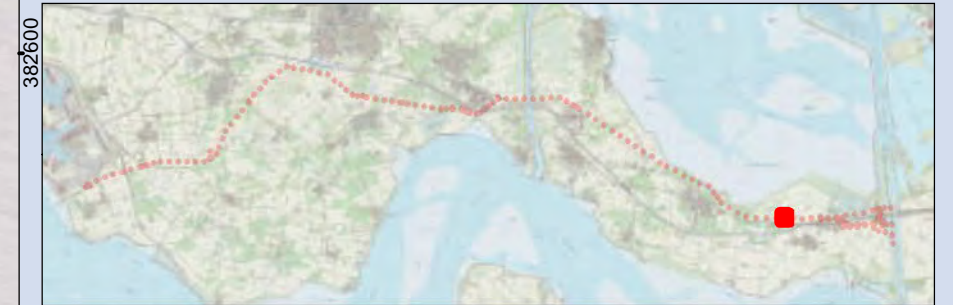
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|-------------------------------------|---|
| ● Mast | □ Grondopslag teelaarde |
| — Juk/kruisingslocatie | □ Lierterrein |
| — Tracé | □ Opslagterrein |
| □ Masten | □ Passeerplaats |
| ● Tijdelijke masten | □ Tijdelijke dempen watergang/waterpartij |
| — Tijdelijke verbinding | □ Permanente watergang |
| □ Tijdelijk bouwterrein | □ Bouwweg |
| — 150kV kabel Kruiningen | — Overige drainage |
| □ Werkstrook 150kV kabel Kruiningen | — Huidige drainage |
| — Tijdelijke duiker | — Tijdelijke drainage |
| — Tijdelijke watergang | — Verwijderen drainage |
| □ Bouwput | □ Te verwijderen groen |
| □ Draglineschot | □ Kadastrale percelen |
| □ Bouwterrein | |

MASTGEGEVENS

Mastnummer: 1094
 Type: ZWW4S450
 Masthoogte: 71,20 (m)
 Maaiveld: 1,10 (m t.o.v. NAP)
 Terrein: Akker
 X-coördinaat: 70044,886 (m)
 Y-coördinaat: 382643,782 (m)
 Oppervlakte toegangsweg: 206 (m²)

ATTENTIE

Wij wijzen er nadrukkelijk op dat de op de tekeningen aangegeven kabels en leidingen slechts indicatief zijn aangegeven.

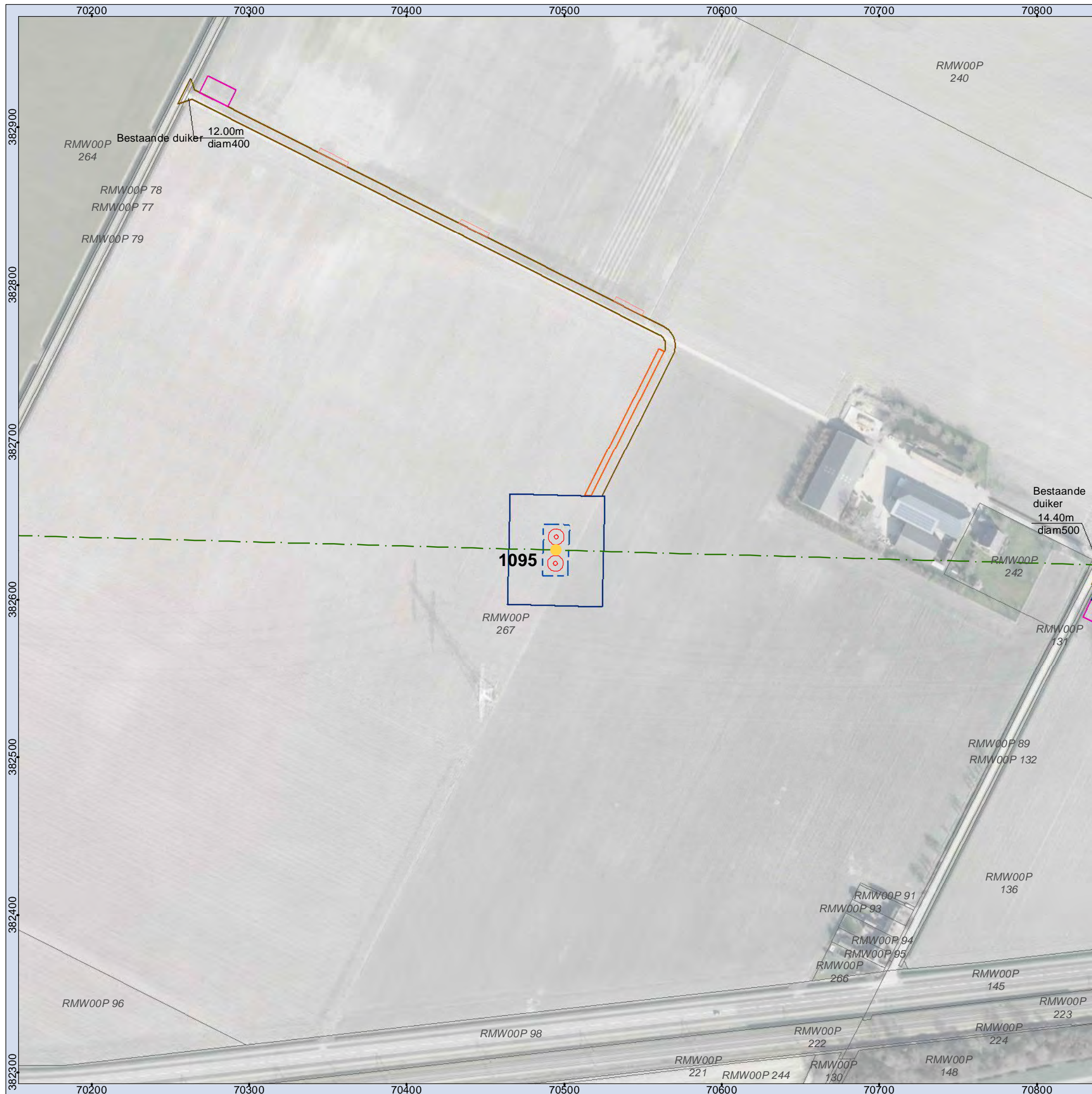


Overzichtskaart 1094 TenneT ZW 380kV

Opdrachtgever: TenneT TSO B.V.
 Projectnummer: 315112



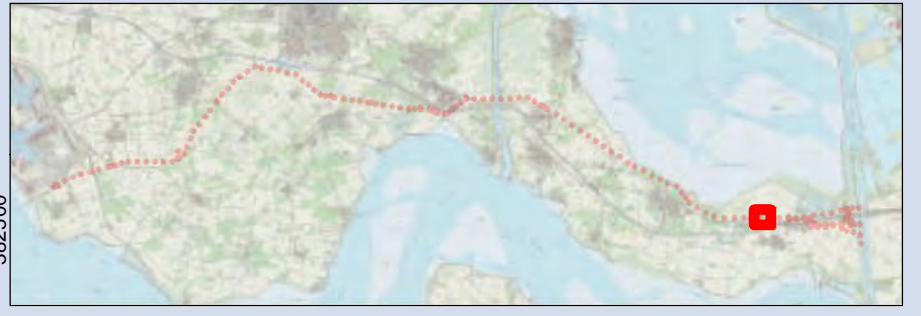
Status: Definitief
 Datum: 03-10-2016
 Schaal: 1:1.500
 Formaat: A3
 Getekend: RdL
 Gecontroleerd: RO



- Legenda**
- Mast
 - Juk/kruisingslocatie
 - - - Tracé
 - Masten
 - Tijdelijke masten
 - Tijdelijke verbinding
 - Tijdelijk bouwterrein
 - 150kV kabel Kruiningen
 - Werkstrook 150kV kabel Kruiningen
 - Tijdelijke duiker
 - Tijdelijke watergang
 - Bouwput
 - Draglineschot
 - Bouwterrein
 - Grondopslag teelaarde
 - Lierterrein
 - Opslagterrein
 - Passeerplaats
 - Tijdelijke dempen watergang/waterpartij
 - Permanente watergang
 - Bouwweg
 - Overige drainage
 - Huidige drainage
 - Tijdelijke drainage
 - Verwijderen drainage
 - Te verwijderen groen
 - Kadastrale percelen

MASTGEGEVENS
 Mastnummer: 1095
 Type: ZWW4S450+5
 Masthoogte: 76,20 (m)
 Maaiveld: 1,22 (m t.o.v. NAP)
 Terrein: Akker
 X-coördinaat: 70494,684 (m)
 Y-coördinaat: 382631,541 (m)
 Oppervlakte toegangsweg: 2780 (m2)

ATTENTIE
 Wij wijzen er nadrukkelijk op dat de op de tekeningen aangegeven kabels en leidingen slechts indicatief zijn aangegeven.



Overzichtskaart 1095
TenneT ZW 380kV

Opdrachtgever: TenneT TSO B.V.
 Projectnummer: 315112



Status: Definitief
 Datum: 03-10-2016
 Schaal: 1:2.500
 Formaat: A3
 Getekend: RdL
 Gecontroleerd: RO



Legenda

- | | |
|-------------------------------------|---|
| ● Mast | □ Grondopslag teelaarde |
| — Juk/kruisingslocatie | □ Lierterrein |
| — Tracé | □ Opslagterrein |
| □ Masten | □ Passeerplaats |
| ● Tijdelijke masten | ✦ Tijdelijke dempen watergang/waterpartij |
| — Tijdelijke verbinding | □ Permanente watergang |
| □ Tijdelijk bouwterrein | □ Bouwweg |
| — 150kV kabel Kruiningen | — Overige drainage |
| □ Werkstrook 150kV kabel Kruiningen | — Huidige drainage |
| — Tijdelijke duiker | — Tijdelijke drainage |
| □ Tijdelijke watergang | — Verwijderen drainage |
| □ Bouwput | □ Te verwijderen groen |
| □ Draglineschot | □ Kadastrale percelen |
| □ Bouwterrein | |

MASTGEGEVENS

Mastnummer: 1097
 Type: ZWW4S400
 Masthoogte: 63,30 (m)
 Maaiveld: 1,39 (m t.o.v. NAP)
 Terrein: Akker
 X-coördinaat: 7 1258,239 (m)
 Y-coördinaat: 382652,337 (m)
 Oppervlakte toegangsweg: 1876 (m2)

ATTENTIE

Wij wijzen er nadrukkelijk op dat de op de tekeningen aangegeven kabels en leidingen slechts indicatief zijn aangegeven.

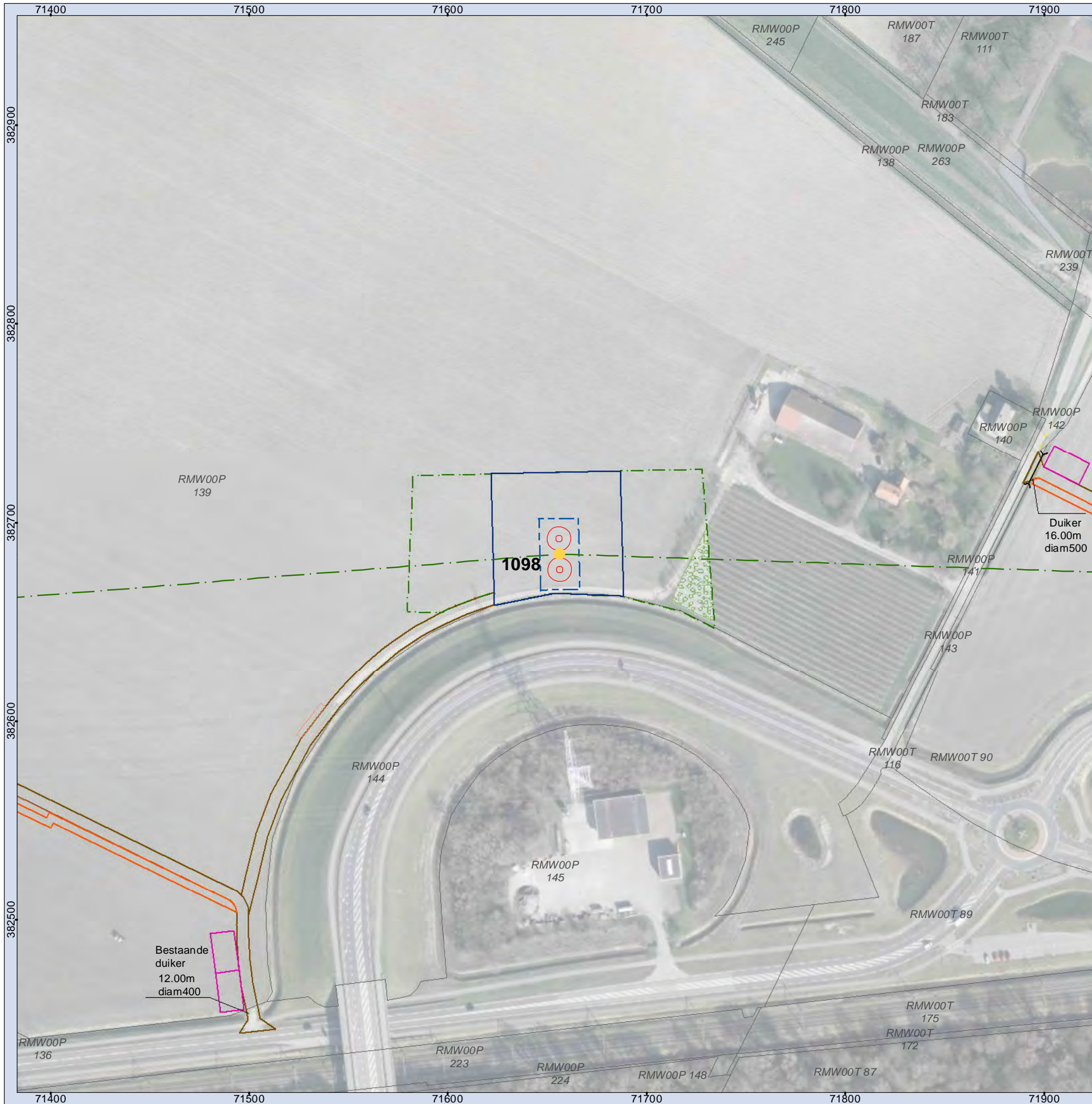


**Overzichtskaart 1097
TenneT ZW 380kV**

Opdrachtgever: TenneT TSO B.V.
 Projectnummer: 315112



Status: Definitief
 Datum: 03-10-2016
 Schaal: 1:2.000
 Formaat: A3
 Getekend: RdL
 Gecontroleerd: RO



Legenda

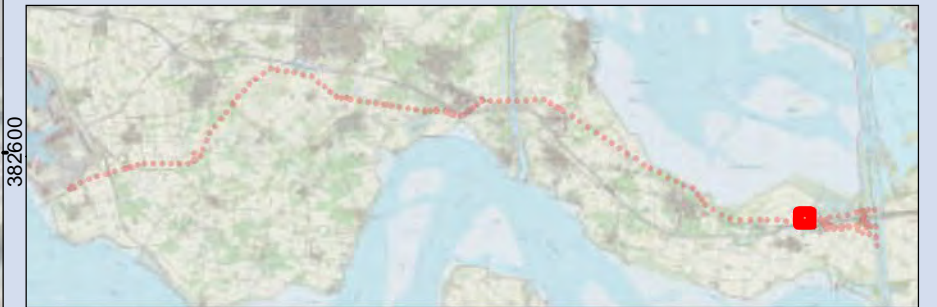
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| — Juk/kruisingslocatie | □ Lierterrein |
| — Tracé | □ Opslagterrein |
| □ Masten | □ Passeerplaats |
| ● Tijdelijke masten | □ Tijdelijke dempen watergang/waterpartij |
| — Tijdelijke verbinding | □ Permanente watergang |
| □ Tijdelijk bouwterrein | □ Bouwweg |
| — 150kV kabel Kruiningen | — Overige drainage |
| □ Werkstrook 150kV kabel Kruiningen | — Huidige drainage |
| — Tijdelijke duiker | — Tijdelijke drainage |
| — Tijdelijke watergang | — Verwijderen drainage |
| □ Bouwput | □ Te verwijderen groen |
| □ Draglineschot | □ Kadastrale percelen |
| □ Bouwterrein | |

MASTGEGEVENS

Mastnummer: 1098
 Type: ZWW4HK400
 Masthoogte: 63,20 (m)
 Maaiveld: 1,20 (m t.o.v. NAP)
 Terrein: Akker
 X-coördinaat: 71656,11 (m)
 Y-coördinaat: 382684,1 (m)
 Oppervlakte toegangsweg: 1252 (m2)

ATTENTIE

Wij wijzen er nadrukkelijk op dat de op de tekeningen aangegeven kabels en leidingen slechts indicatief zijn aangegeven.

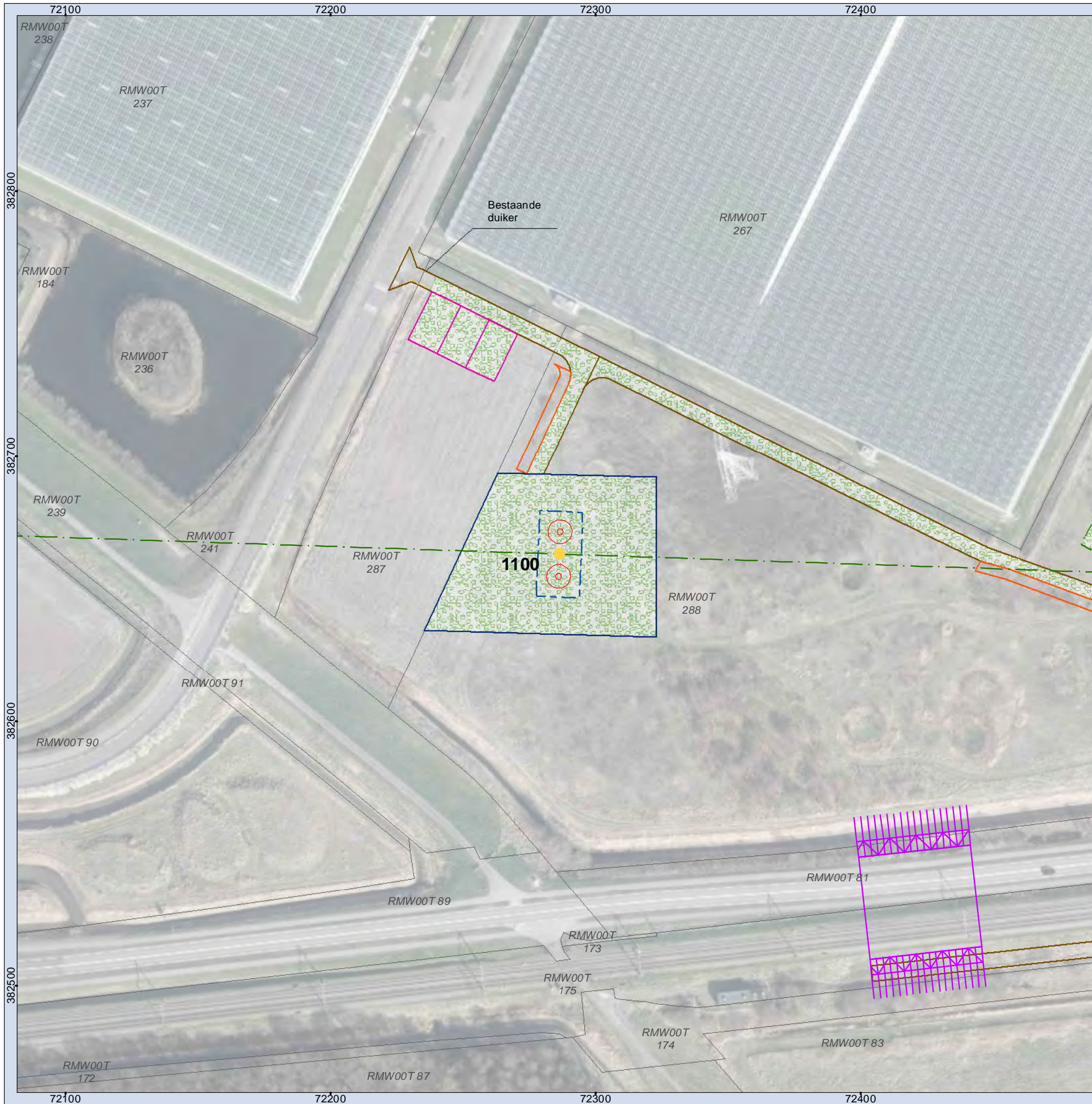


**Overzichtskaart 1098
TenneT ZW 380kV**

Opdrachtgever: TenneT TSO B.V.
 Projectnummer: 315112



Status: Definitief
 Datum: 03-10-2016
 Schaal: 1:2.000
 Formaat: A3
 Getekend: RdL
 Gecontroleerd: RO



Legenda

- | | |
|-------------------------------------|---|
| ● Mast | □ Grondopslag teelaarde |
| — Juk/kruisingslocatie | □ Lierterrein |
| — Tracé | □ Opslagterrein |
| □ Masten | □ Passeerplaats |
| ● Tijdelijke masten | □ Tijdelijke dempen watergang/waterpartij |
| — Tijdelijke verbinding | □ Permanente watergang |
| □ Tijdelijk bouwterrein | □ Bouwweg |
| — 150kV kabel Kruiningen | — Overige drainage |
| □ Werkstrook 150kV kabel Kruiningen | — Huidige drainage |
| — Tijdelijke duiker | — Tijdelijke drainage |
| — Tijdelijke watergang | — Verwijderen drainage |
| □ Bouwput | □ Te verwijderen groen |
| □ Draglineschot | □ Kadastrale percelen |
| □ Bouwterrein | |

MASTGEGEVENS

Mastnummer: 1100
 Type: ZWW4S400
 Masthoogte: 63,30 (m)
 Maaiveld: 1,30 (m t.o.v. NAP)
 Terrein: Natuur
 X-coördinaat: 72286,299 (m)
 Y-coördinaat: 382662,958 (m)
 Oppervlakte toegangsweg: 812 (m2)

ATTENTIE

Wij wijzen er nadrukkelijk op dat de op de tekeningen aangegeven kabels en leidingen slechts indicatief zijn aangegeven.



**Overzichtskaart 1100
TenneT ZW 380kV**

Opdrachtgever: TenneT TSO B.V.
 Projectnummer: 315112



Status: Definitief
 Datum: 03-10-2016
 Schaal: 1:1.500
 Formaat: A3
 Getekend: RdL
 Gecontroleerd: RO



Legenda

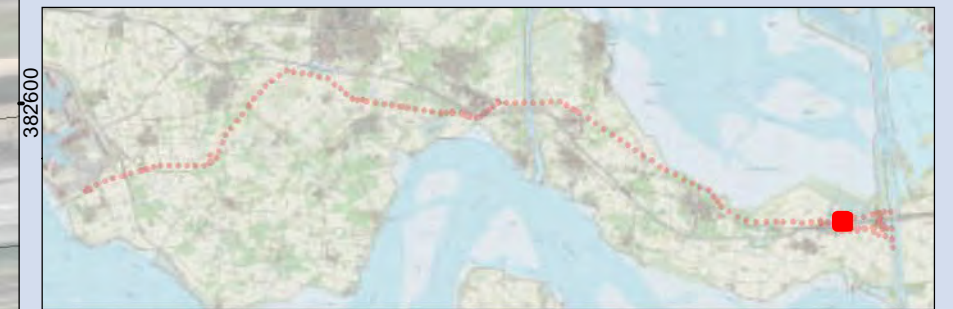
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| — Juk/kruisingslocatie | □ Lierterrein |
| — Tracé | □ Opslagterrein |
| □ Masten | □ Passeerplaats |
| ● Tijdelijke masten | □ Tijdelijke dempen watergang/waterpartij |
| — Tijdelijke verbinding | □ Permanente watergang |
| □ Tijdelijk bouwterrein | □ Bouwweg |
| — 150kV kabel Kruiningen | — Overige drainage |
| □ Werkstrook 150kV kabel Kruiningen | — Huidige drainage |
| — Tijdelijke duiker | — Tijdelijke drainage |
| □ Tijdelijke watergang | — Verwijderen drainage |
| □ Bouwput | □ Te verwijderen groen |
| □ Draglineschot | □ Kadastrale percelen |
| □ Bouwterrein | |

MASTGEGEVENS

Mastnummer: 1101
 Type: ZWW4HM400+5
 Masthoogte: 68,20 (m)
 Maaiveld: 1,30 (m t.o.v. NAP)
 Terrein: Natuur
 X-coördinaat: 72583,14 (m)
 Y-coördinaat: 382653 (m)
 Oppervlakte toegangsweg: 1510 (m2)

ATTENTIE

Wij wijzen er nadrukkelijk op dat de op de tekeningen aangegeven kabels en leidingen slechts indicatief zijn aangegeven.



**Overzichtskaart 1101
TenneT ZW 380kV**

Opdrachtgever: TenneT TSO B.V.
 Projectnummer: 315112



Status: Definitief
 Datum: 03-10-2016
 Schaal: 1:1.500
 Formaat: A3
 Getekend: RdL
 Gecontroleerd: RO



Legenda

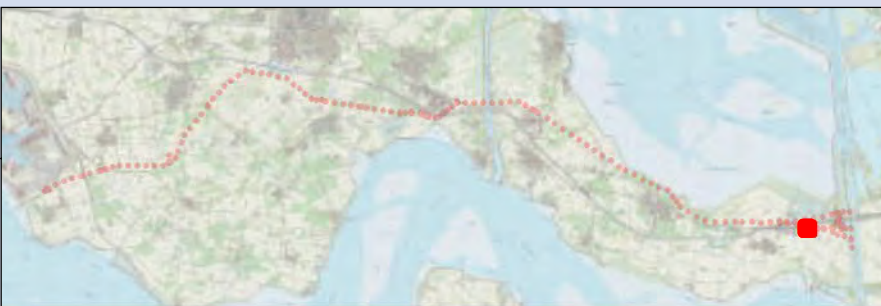
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| — Juk/kruisingslocatie | □ Lierterrein |
| — Tracé | □ Opslagterrein |
| □ Masten | □ Passeerplaats |
| ● Tijdelijke masten | □ Tijdelijke dempen watergang/waterpartij |
| — Tijdelijke verbinding | □ Permanente watergang |
| □ Tijdelijk bouwterrein | □ Bouwweg |
| — 150kV kabel Kruiningen | — Overige drainage |
| □ Werkstrook 150kV kabel Kruiningen | — Huidige drainage |
| — Tijdelijke duiker | — Tijdelijke drainage |
| □ Tijdelijke watergang | — Verwijderen drainage |
| □ Bouwput | □ Te verwijderen groen |
| □ Draglineschot | □ Kadastrale percelen |
| □ Bouwterrein | |

MASTGEGEVENS

Mastnummer: 1102
 Type: ZWW4HM400+5
 Masthoogte: 68,20 (m)
 Maaiveld: 1,20 (m t.o.v. NAP)
 Terrein: Akker
 X-coördinaat: 72808,43 (m)
 Y-coördinaat: 382351,3 (m)
 Oppervlakte toegangsweg: 1986 (m2)

ATTENTIE

Wij wijzen er nadrukkelijk op dat de op de tekeningen aangegeven kabels en leidingen slechts indicatief zijn aangegeven.

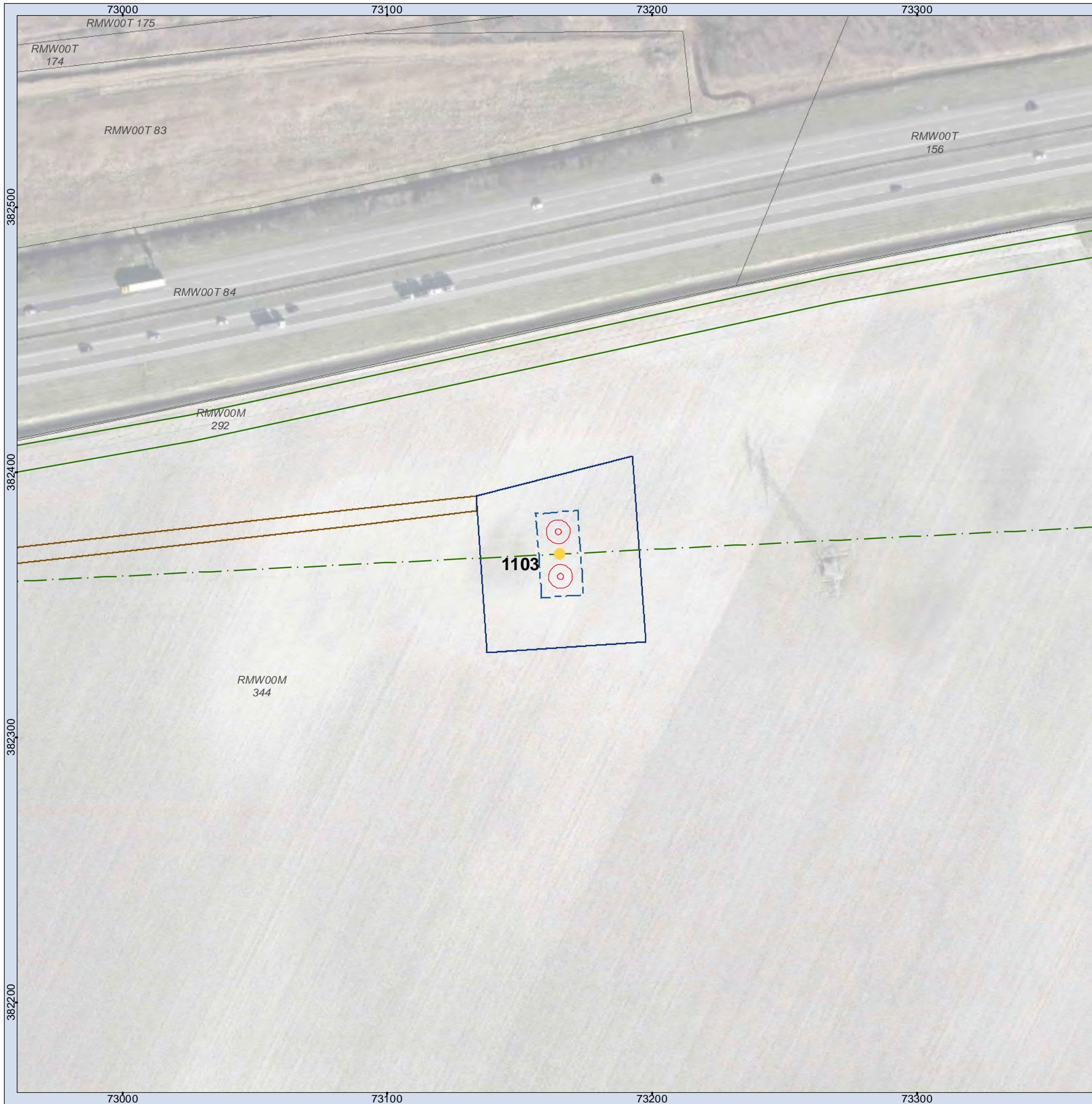


**Overzichtskaart 1102
TenneT ZW 380kV**

Opdrachtgever: TenneT TSO B.V.
 Projectnummer: 315112



Status: Definitief
 Datum: 03-10-2016
 Schaal: 1:1.500
 Formaat: A3
 Getekend: RdL
 Gecontroleerd: RO



Legenda

- | | |
|-------------------------------------|---|
| ● Mast | □ Grondopslag teelaarde |
| — Juk/kruisingslocatie | □ Lierterrein |
| — Tracé | □ Opslagterrein |
| □ Masten | □ Passeerplaats |
| ● Tijdelijke masten | □ Tijdelijke dempen watergang/waterpartij |
| — Tijdelijke verbinding | □ Permanente watergang |
| □ Tijdelijk bouwterrein | □ Bouwweg |
| — 150kV kabel Kruiningen | — Overige drainage |
| □ Werkstrook 150kV kabel Kruiningen | — Huidige drainage |
| — Tijdelijke duiker | — Tijdelijke drainage |
| — Tijdelijke watergang | — Verwijderen drainage |
| □ Bouwput | □ Te verwijderen groen |
| □ Draglineschot | □ Kadastrale percelen |
| □ Bouwterrein | |

MASTGEGEVENS

Mastnummer: 1103
 Type: ZWW4S400
 Masthoogte: 63,30 (m)
 Maaiveld: 1,20 (m t.o.v. NAP)
 Terrein: Akker
 X-coördinaat: 73164,918 (m)
 Y-coördinaat: 382369,187 (m)
 Oppervlakte toegangsweg: 2424 (m2)

ATTENTIE

Wij wijzen er nadrukkelijk op dat de op de tekeningen aangegeven kabels en leidingen slechts indicatief zijn aangegeven.



**Overzichtskaart 1103
 TenneT ZW 380kV**

Opdrachtgever: TenneT TSO B.V.
 Projectnummer: 315112



Status: Definitief
 Datum: 03-10-2016
 Schaal: 1:1.500
 Formaat: A3
 Getekend: RdL
 Gecontroleerd: RO



Legenda

- Mast
- Juk/kruisingslocatie
- - - Tracé
- Masten
- Tijdelijke masten
- Tijdelijke verbinding
- Tijdelijk bouwterrein
- 150kV kabel Kruiningen
- Werkstrook 150kV kabel Kruiningen
- Tijdelijke duiker
- Tijdelijke watergang
- Bouwput
- ⊗ Draglineschot
- Bouwterrein
- Grondopslag teelaarde
- Lierterrein
- Opslagterrein
- Passeerplaats
- ⊗ Tijdelijke dempen watergang/waterpartij
- Permanente watergang
- Bouwweg
- Overige drainage
- Huidige drainage
- Tijdelijke drainage
- Verwijderen drainage
- Te verwijderen groen
- Kadastrale percelen

MASTGEGEVENS

Mastnummer: 1104
 Type: ZWW4AE400
 Masthoogte: 63,20 (m)
 Maaiveld: 0,50 (m t.o.v. NAP)
 Terrein: Akker
 X-coördinaat: 73532,241 (m)
 Y-coördinaat: 382387,617 (m)
 Oppervlakte toegangsweg: 282 (m2)

ATTENTIE

Wij wijzen er nadrukkelijk op dat de op de tekeningen aangegeven kabels en leidingen slechts indicatief zijn aangegeven.

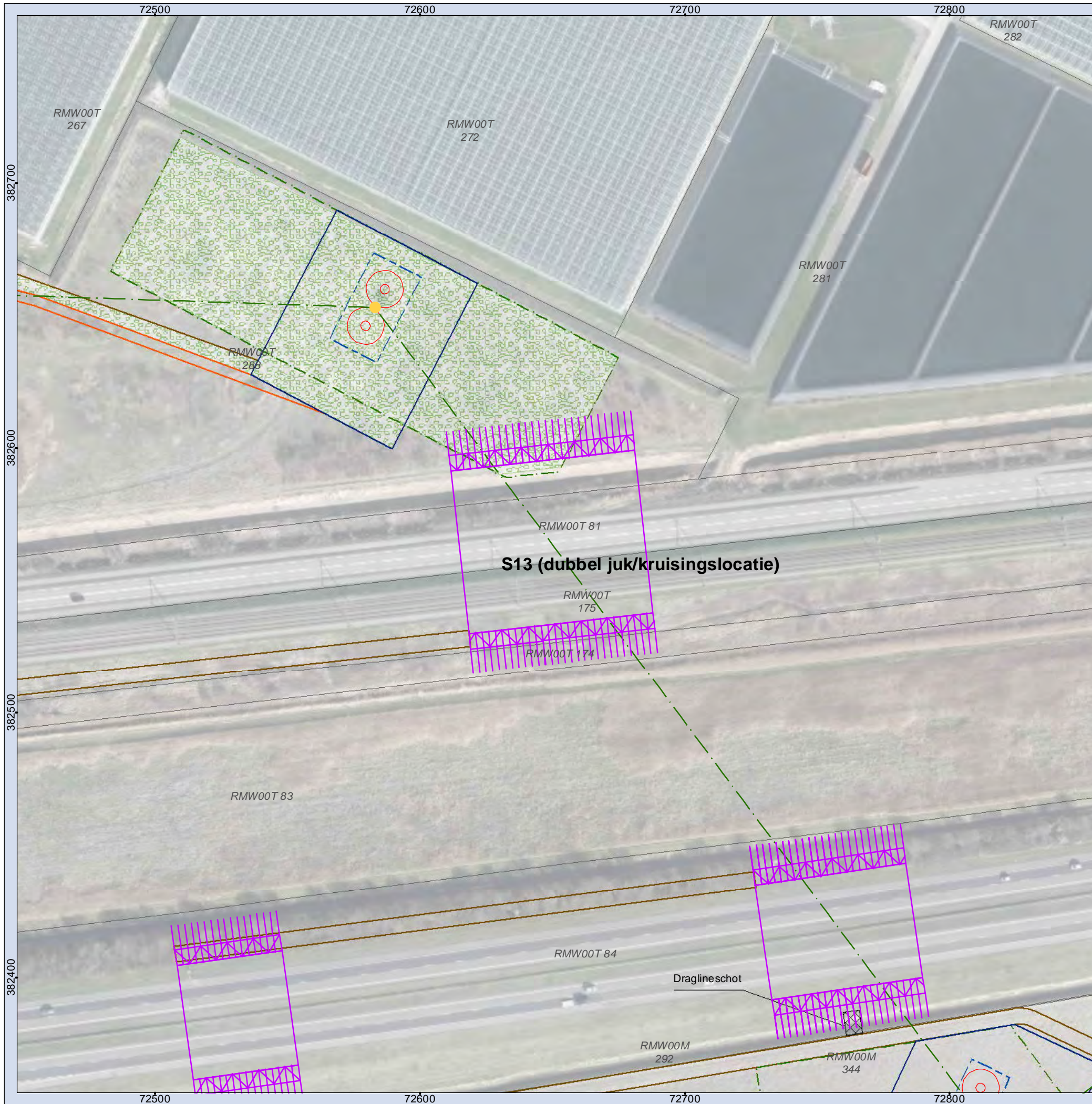


**Overzichtskartaart 1104
 TenneT ZW 380kV**

Opdrachtgever: TenneT TSO B.V.
 Projectnummer: 315112



Status: Definitief
 Datum: 03-10-2016
 Schaal: 1:1.500
 Formaat: A3
 Getekend: RdL
 Gecontroleerd: RO



Legenda

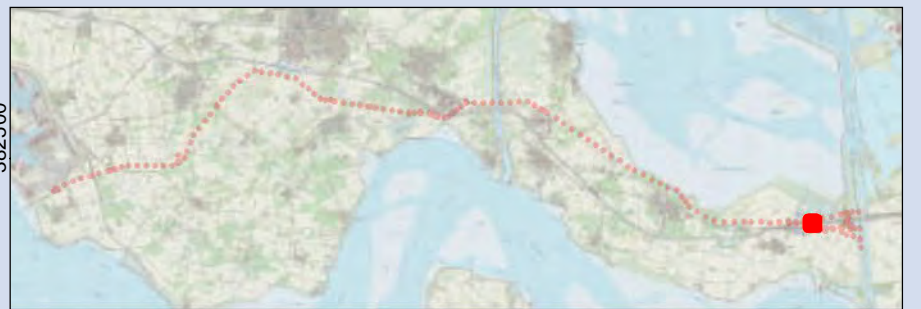
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|-------------------------------------|---|
| ● Mast | □ Grondopslag teelaarde |
| — Juk/kruisingslocatie | □ Lierterrein |
| — Tracé | □ Opslagterrein |
| □ Masten | □ Passeerplaats |
| ● Tijdelijke masten | □ Tijdelijke dempen watergang/waterpartij |
| — Tijdelijke verbinding | □ Permanente watergang |
| □ Tijdelijk bouwterrein | □ Bouwweg |
| — 150kV kabel Kruiningen | — Overige drainage |
| □ Werkstrook 150kV kabel Kruiningen | — Huidige drainage |
| — Tijdelijke duiker | — Tijdelijke drainage |
| — Tijdelijke watergang | — Verwijderen drainage |
| □ Bouwput | □ Te verwijderen groen |
| □ Draglineschot | □ Kadastrale percelen |
| □ Bouwterrein | |

MASTGEGEVENS

Mastnummer: S13 (dubbel juk/kruisingslocatie)
 Type: -
 Masthoogte: 0,00 (m)
 Maaiveld: - (m t.o.v. NAP)
 Terrein: Wegberm/spoorberm
 X-coördinaat: 72652,675 (m)
 Y-coördinaat: 382559,881 (m)
 Oppervlakte toegangsweg: 1296 (m2)

ATTENTIE

Wij wijzen er nadrukkelijk op dat de op de tekeningen aangegeven kabels en leidingen slechts indicatief zijn aangegeven.



**Overzichtskaart S13 (dubbel juk/kruisingslocatie)
TenneT ZW 380kV**

Opdrachtgever: TenneT TSO B.V.
 Projectnummer: 315112



Status: Definitief
 Datum: 03-10-2016
 Schaal: 1:1.500
 Formaat: A3
 Getekend: RdL
 Gecontroleerd: RO



Legenda

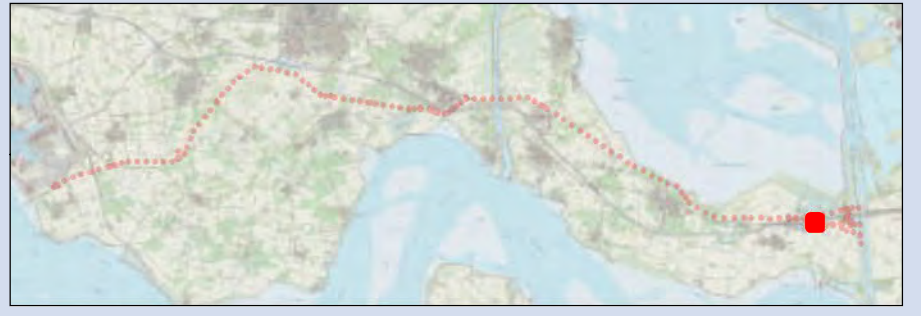
- Mast
- Juk/kruisingslocatie
- - - Tracé
- Masten
- Tijdelijke masten
- Tijdelijke verbinding
- Tijdelijk bouwterrein
- 150kV kabel Kruiningen
- Werkstrook 150kV kabel Kruiningen
- Tijdelijke duiker
- Tijdelijke watergang
- Bouwput
- Draglineschot
- Bouwterrein
- Grondopslag teelaarde
- Lierterrein
- Opslagterrein
- Passeerplaats
- Tijdelijke dempen watergang/waterpartij
- Permanente watergang
- Bouwweg
- Overige drainage
- Huidige drainage
- Tijdelijke drainage
- Verwijderen drainage
- Te verwijderen groen
- Kadastrale percelen

MASTGEGEVENS

Mastnummer: S13 (dubbel juk/kruisingslocatie)
 Type: -
 Masthoogte: 0,00 (m)
 Maaiveld: - (m t.o.v. NAP)
 Terrein: Wegberm
 X-coördinaat: 72757,423 (m)
 Y-coördinaat: 382419,606 (m)
 Oppervlakte toegangsweg: 1324 (m2)

ATTENTIE

Wij wijzen er nadrukkelijk op dat de op de tekeningen aangegeven kabels en leidingen slechts indicatief zijn aangegeven.

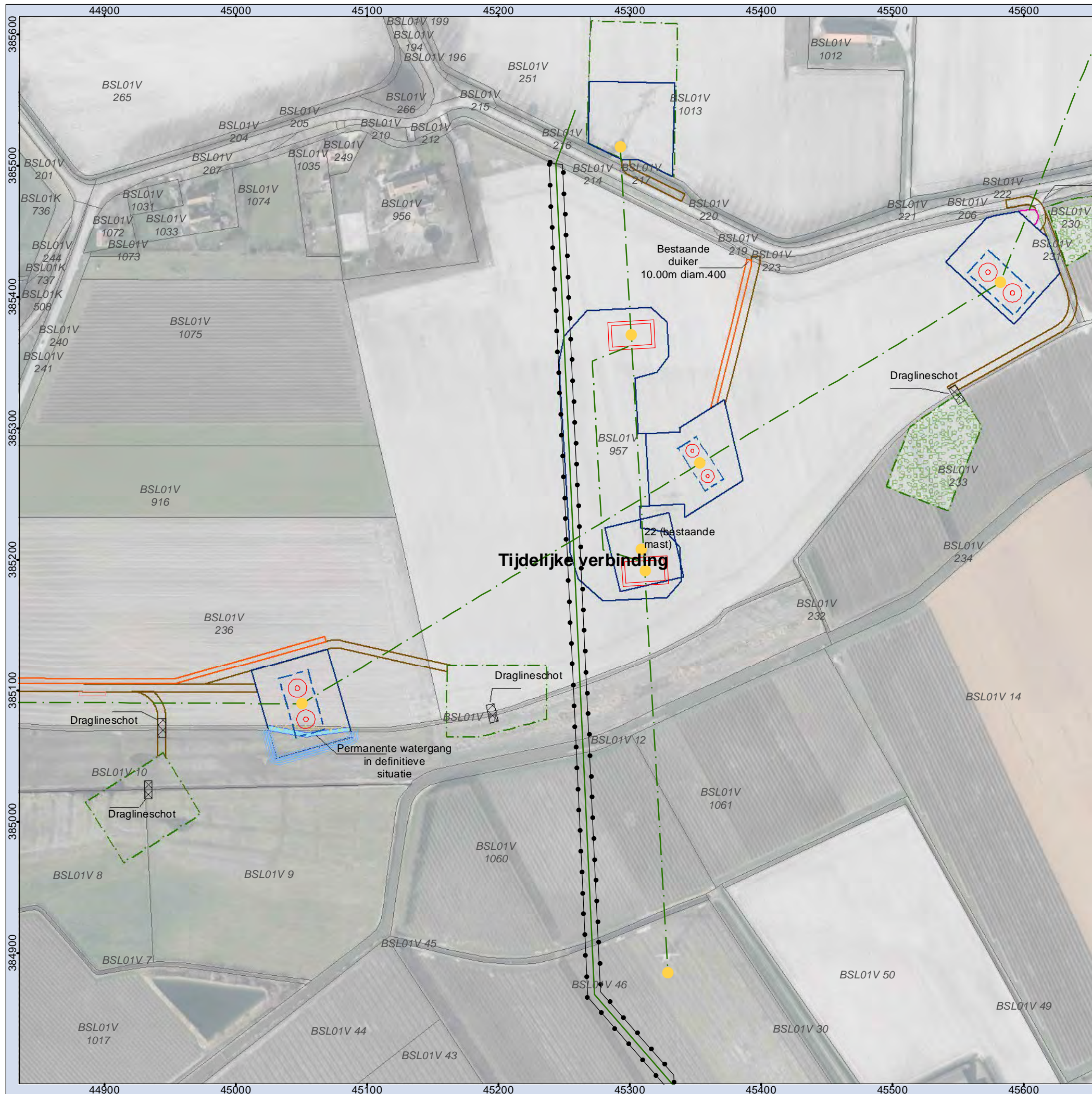


**Overzichtskaart S13 (dubbel juk/kruisingslocatie)
 TenneT ZW 380kV**

Opdrachtgever: TenneT TSO B.V.
 Projectnummer: 315112



Status: Definitief
 Datum: 03-10-2016
 Schaal: 1:1.500
 Formaat: A3
 Getekend: RdL
 Gecontroleerd: RO



- ### Legenda
- Mast
 - Juk/kruisingslocatie
 - - - Tracé
 - Masten
 - Tijdelijke masten
 - Tijdelijke verbinding
 - Tijdelijk bouwterrein
 - 150kV kabel Kruiningen
 - Werkstrook 150kV kabel Kruiningen
 - Tijdelijke duiker
 - Tijdelijke watergang
 - Bouwput
 - Draglineschot
 - Bouwterrein
 - Grondopslag teelaarde
 - Lierterrein
 - Opslagterrein
 - Passeerplaats
 - X Tijdelijke dempen watergang/waterpartij
 - Permanente watergang
 - Bouwweg
 - - - Overige drainage
 - - - Huidige drainage
 - - - Tijdelijke drainage
 - - - Verwijderen drainage
 - Te verwijderen groen
 - Kadastrale percelen

MASTGEGEVENS

Mastnummer: Tijdelijke verbinding
 Type: -
 Masthoogte: - (m)
 Maaiveld: - (m t.o.v. NAP)
 Terrein: Akker
 X-coördinaat: 45243,718 (m)
 Y-coördinaat: 385207,081 (m)
 Oppervlakte toegangsweg: - (m2)

ATTENTIE

Wij wijzen er nadrukkelijk op dat de op de tekeningen aangegeven kabels en leidingen slechts indicatief zijn aangegeven.

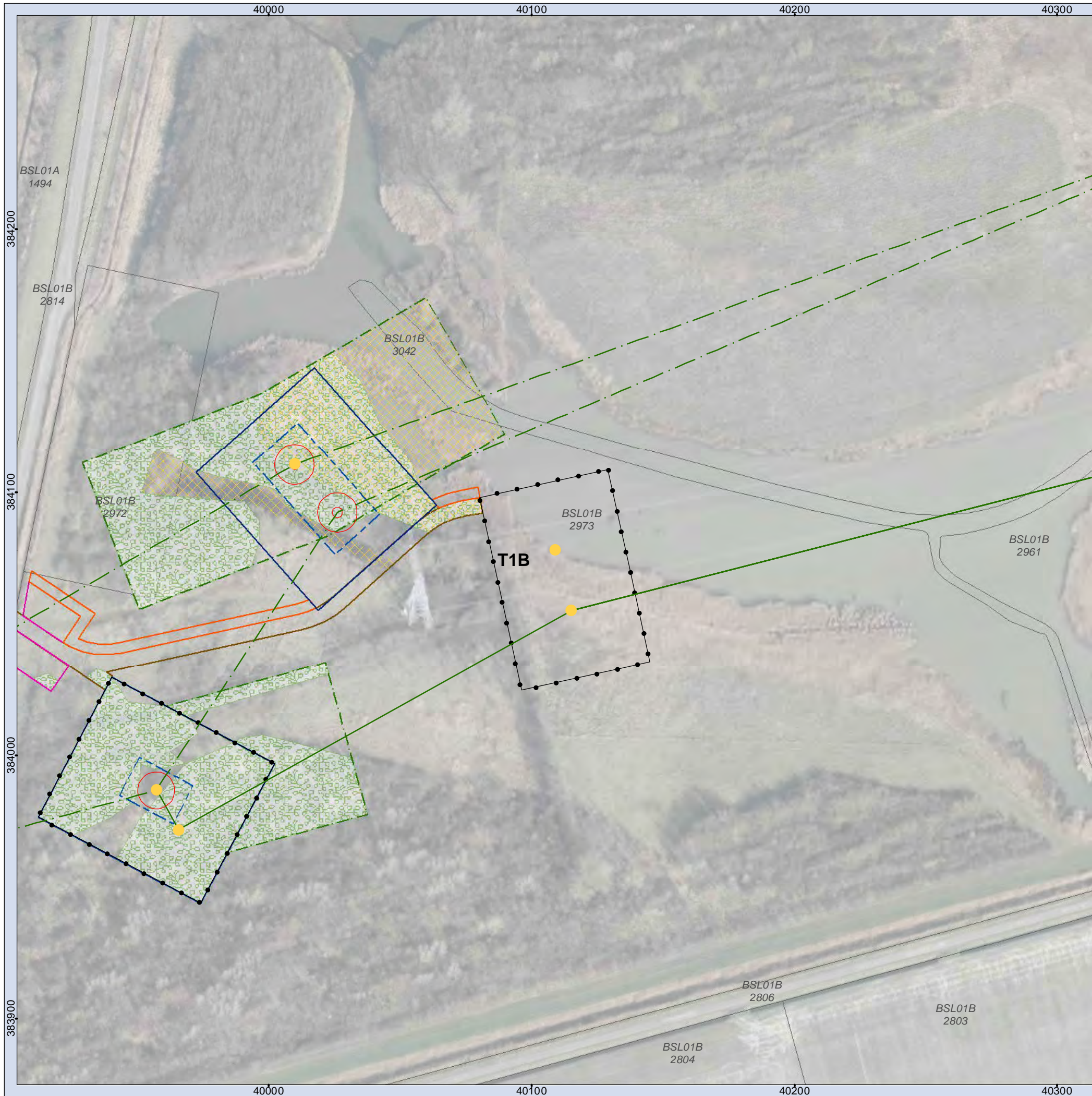


Overzichtskaart Tijdelijke verbinding TenneT ZW 380kV

Opdrachtgever: TenneT TSO B.V.
 Projectnummer: 315112



Status: Definitief
 Datum: 03-10-2016
 Schaal: 1:3.000
 Formaat: A3
 Getekend: RdL
 Gecontroleerd: RO



Legenda

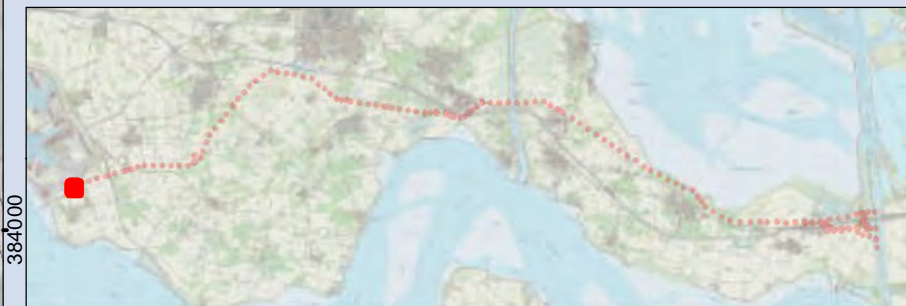
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| — Juk/kruisingslocatie | □ Lierterrein |
| — Tracé | □ Opslagterrein |
| □ Masten | □ Passeerplaats |
| ● Tijdelijke masten | □ Tijdelijke dempen watergang/waterpartij |
| — Tijdelijke verbinding | □ Permanente watergang |
| □ Tijdelijk bouwterrein | □ Bouwweg |
| — 150kV kabel Kruiningen | — Overige drainage |
| □ Werkstrook 150kV kabel Kruiningen | — Huidige drainage |
| — Tijdelijke duiker | — Tijdelijke drainage |
| □ Tijdelijke watergang | — Verwijderen drainage |
| □ Bouwput | □ Te verwijderen groen |
| □ Draglineschot | □ Kadastrale percelen |
| □ Bouwterrein | |

MASTGEGEVENS

Mastnummer: T1B
 Type: -
 Masthoogte: - (m)
 Maaiveld: - (m t.o.v. NAP)
 Terrein: Akker
 X-coördinaat: 40109,8 (m)
 Y-coördinaat: 384078,27 (m)
 Oppervlakte toegangsweg: Toegangsweg 1002 (m2)

ATTENTIE

Wij wijzen er nadrukkelijk op dat de op de tekeningen aangegeven kabels en leidingen slechts indicatief zijn aangegeven.



**Overzichtskaart T1B
TenneT ZW 380kV**

Opdrachtgever: TenneT TSO B.V.
 Projectnummer: 315112



Status: Definitief
 Datum: 03-10-2016
 Schaal: 1:1.500
 Formaat: A3
 Getekend: RdL
 Gecontroleerd: RO



Legenda

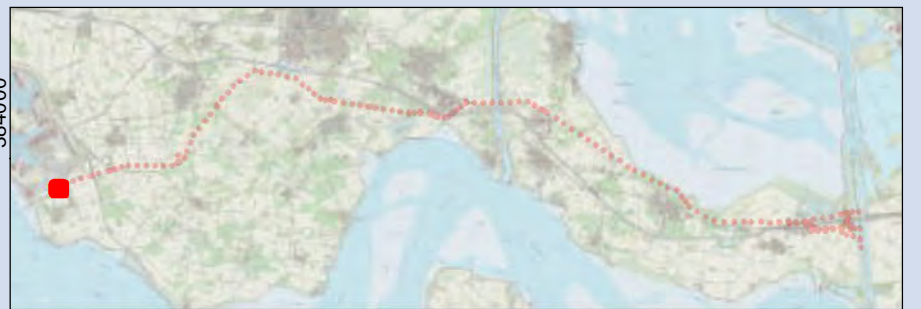
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| — Juk/kruisingslocatie | □ Lierterrein |
| - - - Tracé | □ Opslagterrein |
| □ Masten | □ Passeerplaats |
| ● Tijdelijke masten | □ Tijdelijke dempen watergang/waterpartij |
| — Tijdelijke verbinding | □ Permanente watergang |
| □ Tijdelijk bouwterrein | □ Bouwweg |
| — 150kV kabel Kruiningen | — Overige drainage |
| □ Werkstrook 150kV kabel Kruiningen | — Huidige drainage |
| — Tijdelijke duiker | — Tijdelijke drainage |
| □ Tijdelijke watergang | — Verwijderen drainage |
| □ Bouwput | □ Te verwijderen groen |
| □ Draglineschot | □ Kadastrale percelen |
| □ Bouwterrein | |

MASTGEGEVENS

Mastnummer: T1A
 Type: -
 Masthoogte: - (m)
 Maaiveld: - (m t.o.v. NAP)
 Terrein: Akker
 X-coördinaat: 40115,23 (m)
 Y-coördinaat: 384055 (m)
 Oppervlakte toegangsweg: Toegangsweg 1002 (m2)

ATTENTIE

Wij wijzen er nadrukkelijk op dat de op de tekeningen aangegeven kabels en leidingen slechts indicatief zijn aangegeven.



Overzichtskaart T1A TenneT ZW 380kV

Opdrachtgever: TenneT TSO B.V.
 Projectnummer: 315112



Status: Definitief
 Datum: 03-10-2016
 Schaal: 1:1.500
 Formaat: A3
 Getekend: RdL
 Gecontroleerd: RO



Legenda

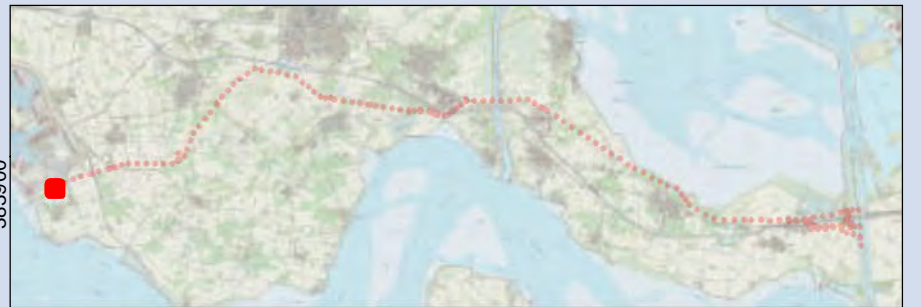
- Mast
- Juk/kruisingslocatie
- - - Tracé
- Masten
- Tijdelijke masten
- Tijdelijke verbinding
- Tijdelijk bouwterrein
- 150kV kabel Kruiningen
- Werkstrook 150kV kabel Kruiningen
- Tijdelijke duiker
- Tijdelijke watergang
- Bouwput
- Draglineschot
- Bouwterrein
- Grondopslag teelaarde
- Lierterrein
- Opslagterrein
- Passeerplaats
- Tijdelijke dempen watergang/waterpartij
- Permanente watergang
- Bouwweg
- - - Overige drainage
- - - Huidige drainage
- - - Tijdelijke drainage
- - - Verwijderen drainage
- Te verwijderen groen
- Kadastrale percelen

MASTGEGEVENS

Mastnummer: T2
 Type: -
 Masthoogte: - (m)
 Maaiveld: - (m t.o.v. NAP)
 Terrein: Bos
 X-coördinaat: 39965,71 (m)
 Y-coördinaat: 383971,44 (m)
 Oppervlakte toegangsweg: Toegangsweg 1001 (m2)

ATTENTIE

Wij wijzen er nadrukkelijk op dat de op de tekeningen aangegeven kabels en leidingen slechts indicatief zijn aangegeven.



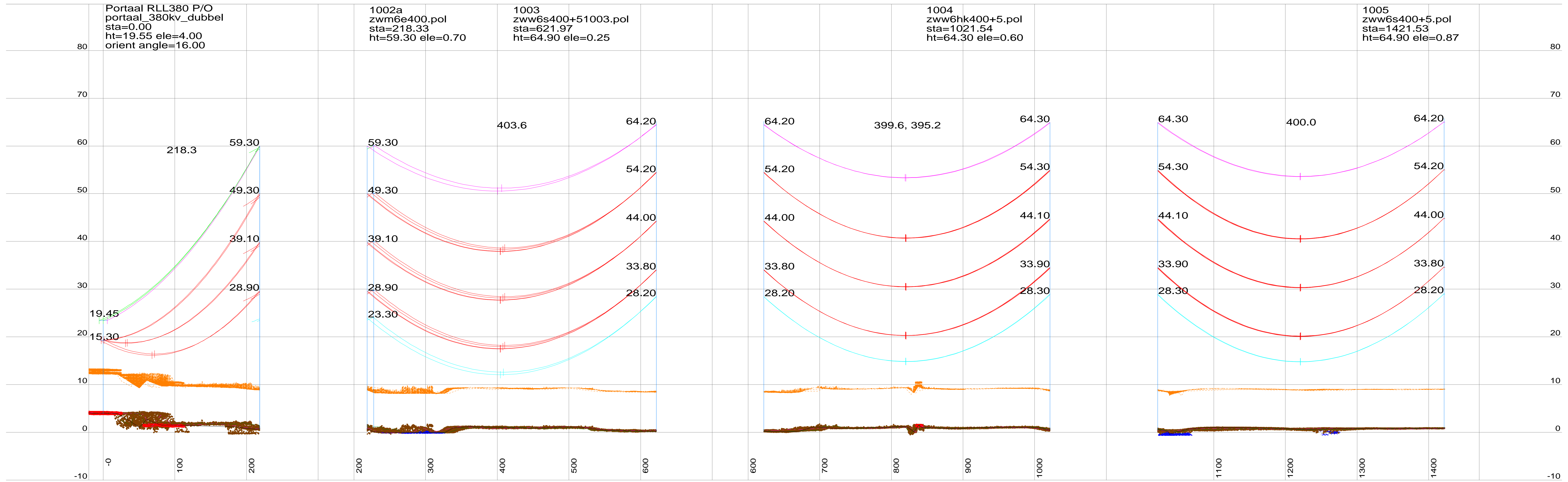
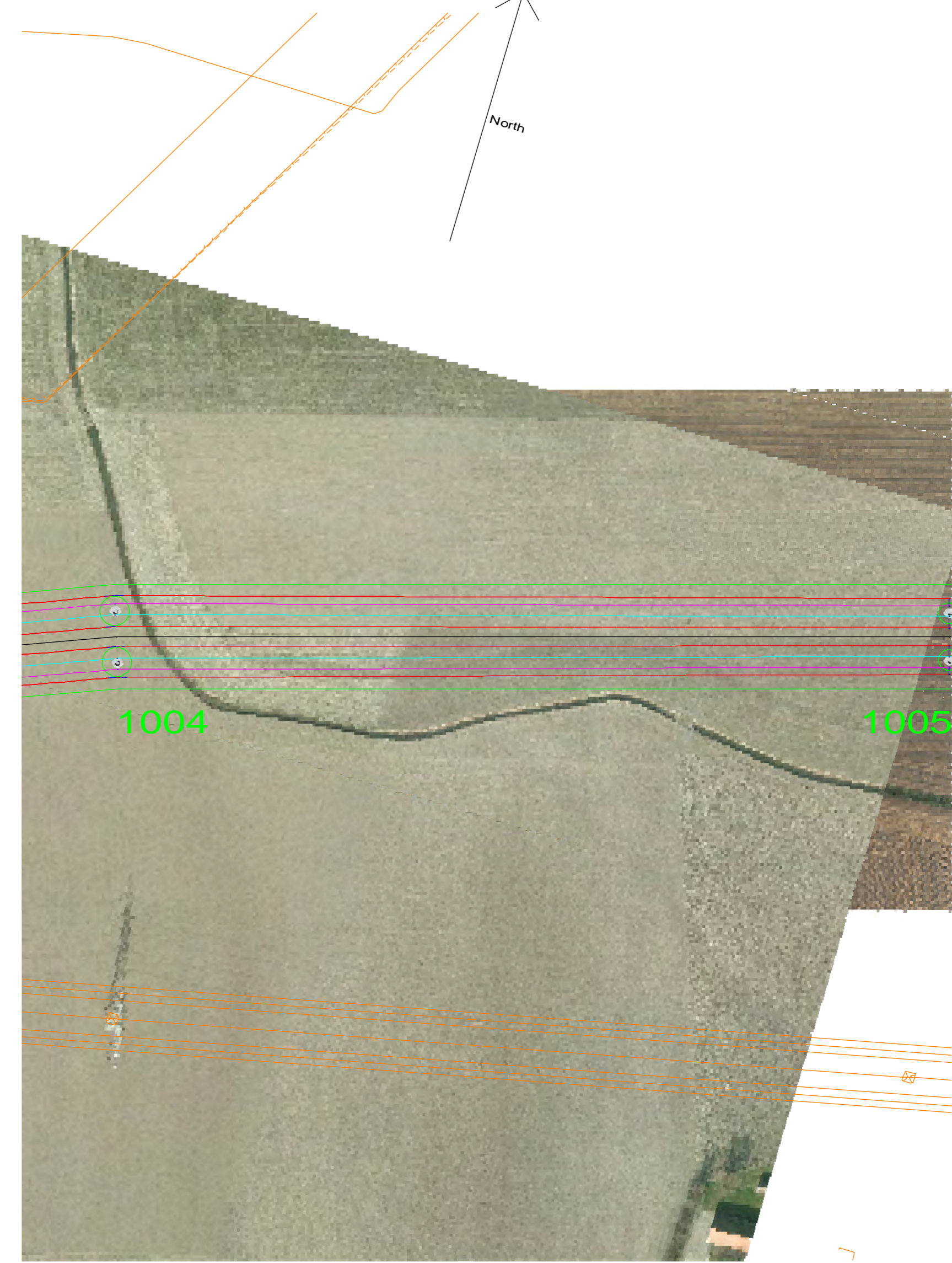
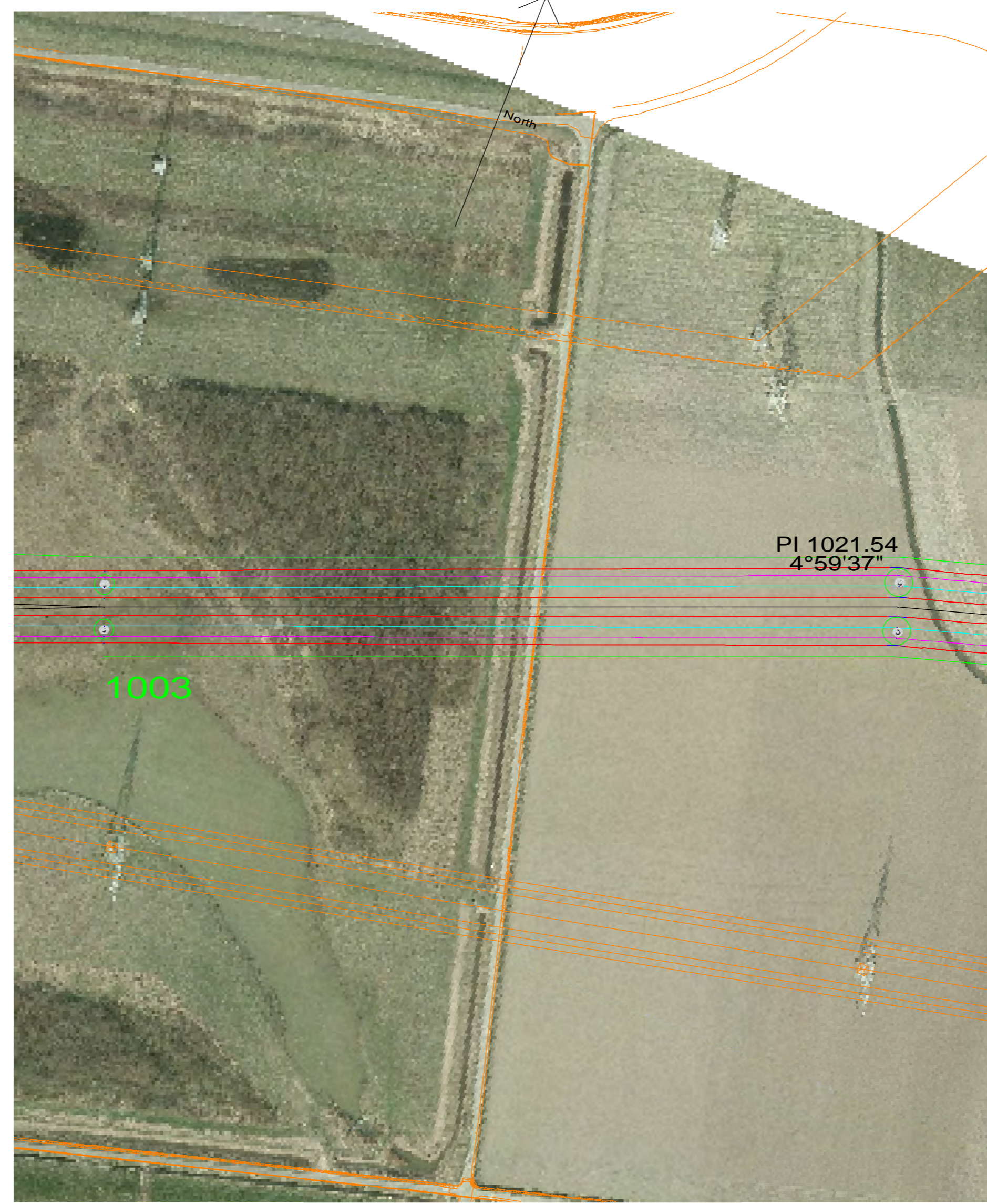
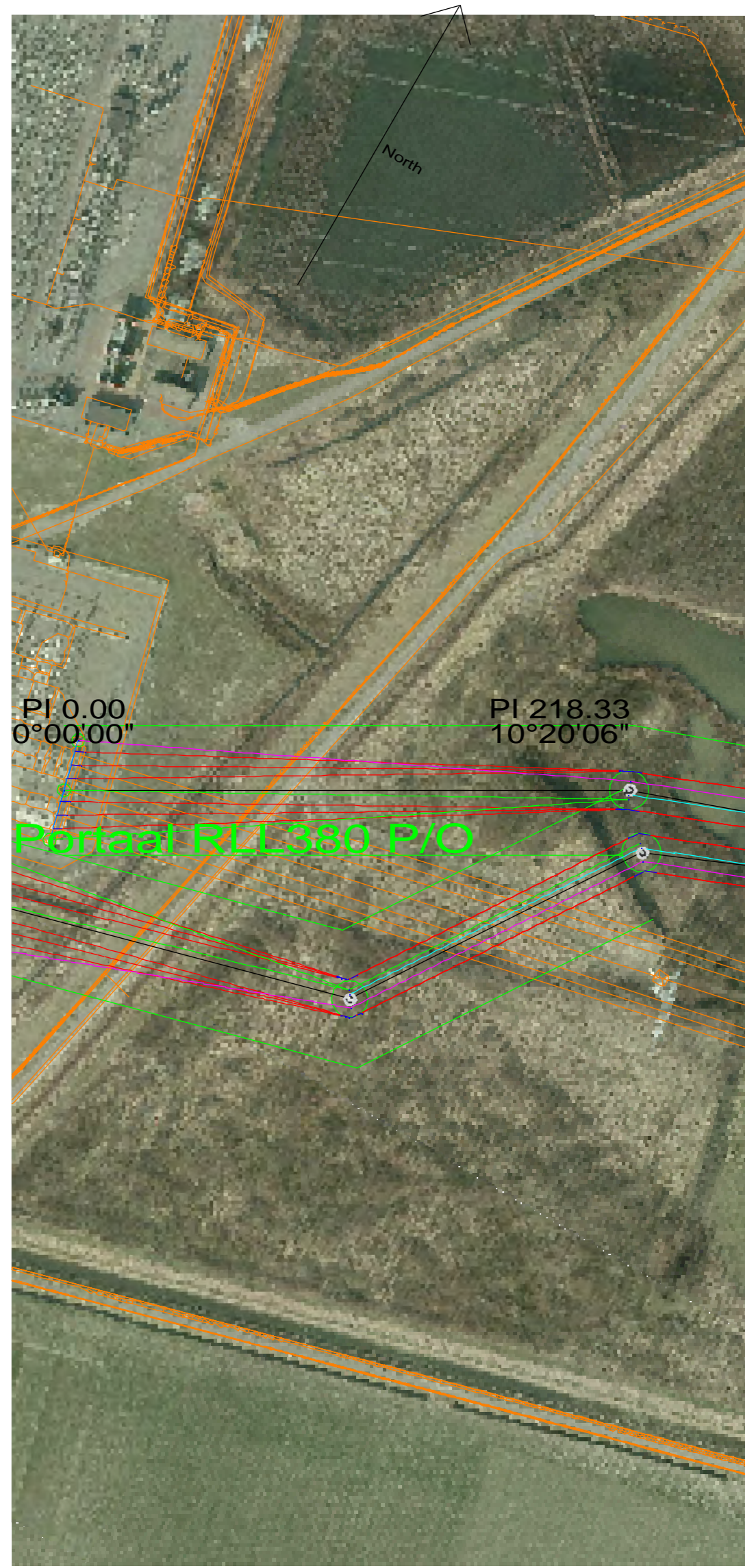
**Overzichtskaart T2
TenneT ZW 380kV**

Opdrachtgever: TenneT TSO B.V.
 Projectnummer: 315112



Status: Definitief
 Datum: 03-10-2016
 Schaal: 1:1.500
 Formaat: A3
 Getekend: RdL
 Gecontroleerd: RO

Bijlage 7
Lengteprofielen



Notes:

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
5. Phase Conductor shown represents the middle of the bundel (500mm conductor separation new Wintrack line). RSG shown represents the center of the bundle (200mm conductor separation).
6. 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.
8. 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 shown at 70°C (150 kV) (Creep RS)
- Conductor phase shown at 70°C (380 kV) (Creep RS)
- Earthwire shown at 15°C (Creep RS)
- OPGW 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.

Feature Description	Symbol	380V-Radial Clearance (m)	150kV-Radial Clearance (m)	0kV-Radial Clearance (m)
Ground	•	10.8	10	8.2
Roads	+	11.8	11	8.2
Railways	×	14	13.2	11.4
Highways	•	12.7	11.8	10.1
Buildings	•	7.7	6.9	5.1
Water	~	>8.3	>8.5	>8.7

Rev	Date	Description	By	Chk	App
P11	06-07-2016	Eleventh Issue Preliminary Line Profile Drawings	AS	JAW	MVN
P10	11-08-2015	Tenth Issue Preliminary Line Profile Drawings	TG	MV	MVN
P9	19-08-2014	Ninth Issue Preliminary Line Profile Drawings	TG	MV	MVN

Preliminary Line Profile Drawings
Section DT1 (Structure 1001 to 1050)
Temperature conductor phase at 70°C

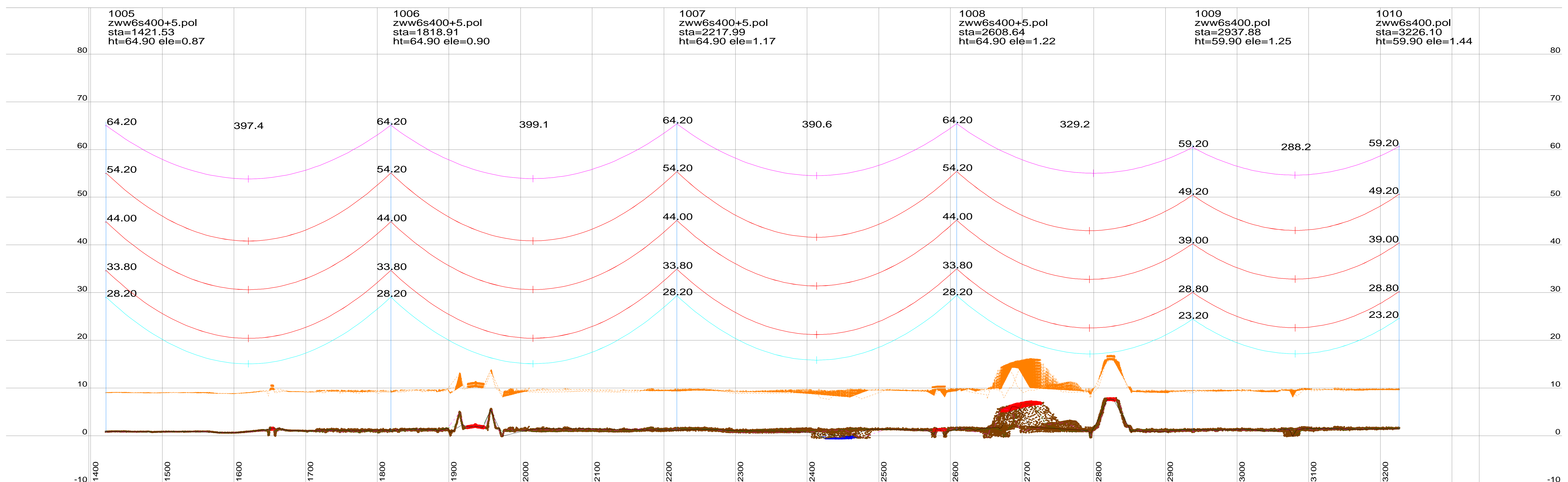
Borssele-Tilburg ZW380

Originator: AS
Approver: MVN
Checker: JAW
Date: 12-07-2016

Movares
PO Box 2855
3500 DR Utrecht
Tel: 030 - 266 5565

tennet
Utrechtseweg 310
6525 JN Amersfoort
Tel: 030-2721111
E-mail: info@tennet.nl
Internet: www.tennet.nl

Project: Borssele-Tilburg ZW380
Drawing Number: ZW380-DT1-P11
Page 1/14
Rev P11



Notes:

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
5. 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).
6. 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.
8. 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 shown at 70°C (150 kV) (Creep RS)
- Conductor phase shown at 70°C (380 kV) (Creep RS)
- Earthwire shown at 15°C (Creep RS)
- OPGW 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.

Feature Description	Symbol	380kV-Radial Clearance (m)	150kV-Radial Clearance (m)	0kV-Radial Clearance (m)
Ground	•	10.8	10	8.2
Roads	+	11.8	11	8.2
Railways	×	14	13.2	11.4
Highways	•	12.7	11.8	10.1
Buildings	•	7.7	6.9	5.1
Water	~	>8.3	>8.5	>8.7

Rev	Date	Description	By	Chk	App
P11	06-07-2016	Eleventh Issue Preliminary Line Profile Drawings	AS	JAW	MVN
P10	11-08-2015	Tenth Issue Preliminary Line Profile Drawings	TG	MV	MVN
P9	19-08-2014	Ninth Issue Preliminary Line Profile Drawings	TG	MV	MVN

Preliminary Line Profile Drawings
Section DT1 (Structure 1001 to 1050)
Temperature conductor phase at 70°C

Borssele-Tilburg ZW380

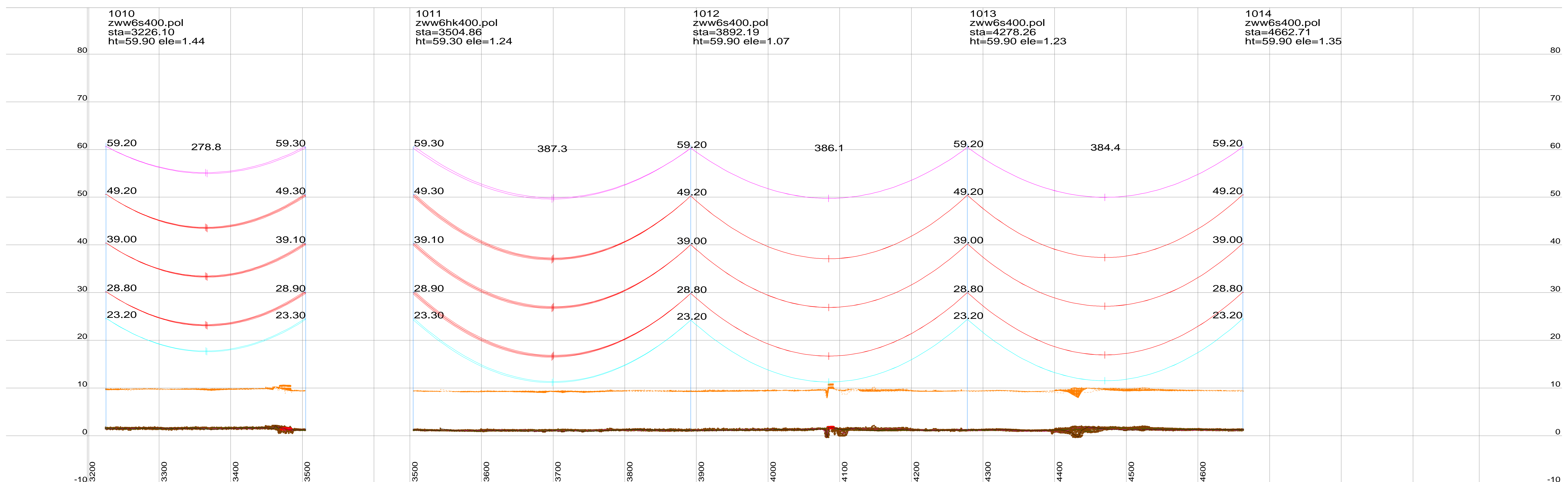
Originator: AS
Approver: MVN
Checker: JAW
Date: 12-07-2016

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3500 OIV Usseste
Tel: 030 - 266 5565

Project: Borssele-Tilburg ZW380

Scale: 20.0 m Horiz. Scale
3.0 m Vert. Scale

Drawing Number: ZW380-DT1-P11
Page 2/14
Rev P11



Notes:

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
5. 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).
6. 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.
8. 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 shown at 70°C (150 kV) (Creep RS)
 - Conductor phase shown at 70°C (380 kV) (Creep RS)
 - Earthwire shown at 15°C (Creep RS)
 - OPGW 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.

Feature Description	Symbol	380kV-Radial Clearance (m)	150kV-Radial Clearance (m)	0kV-Radial Clearance (m)
Ground	•	10.8	10	8.2
Roads	+	11.8	11	8.2
Railways	×	14	13.2	11.4
Highways	•	12.7	11.8	10.1
Buildings	•	7.7	6.9	5.1
Water	~	>8.3	>8.5	>8.7

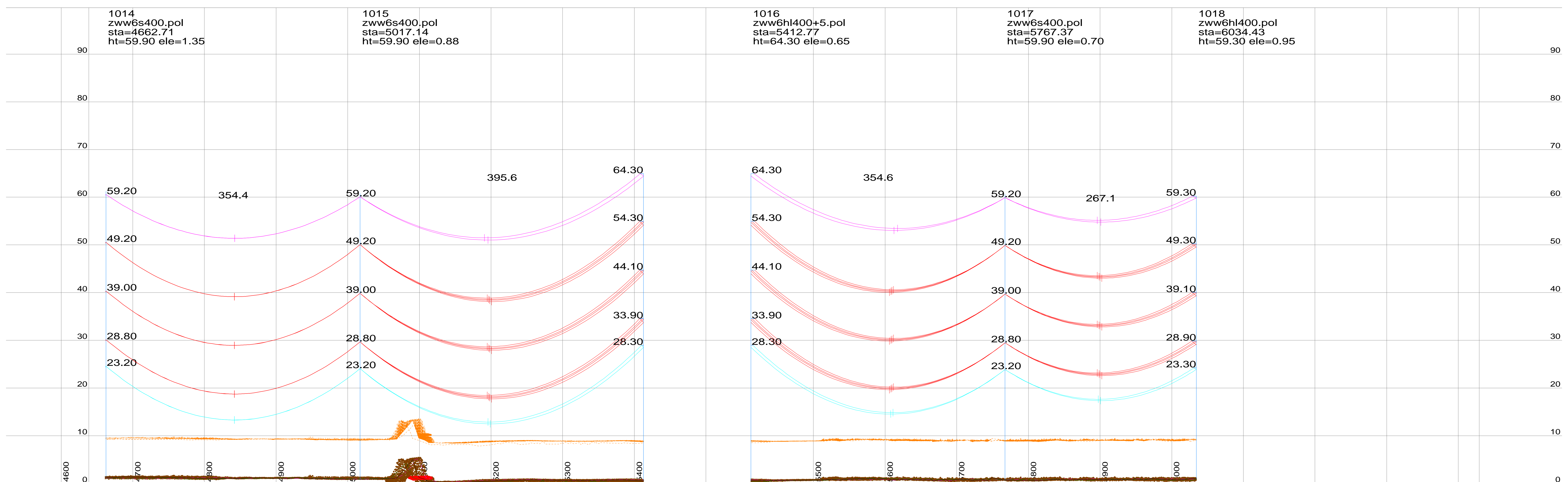
Rev	Date	Description	By	Chk	App
P11	06-07-2016	Eleventh Issue Preliminary Line Profile Drawings	AS	JAW	MVN
P10	11-08-2015	Tenth Issue Preliminary Line Profile Drawings	TG	MV	MVN
P9	19-08-2014	Ninth Issue Preliminary Line Profile Drawings	TG	MV	MVN

Preliminary Line Profile Drawings
Section DT1 (Structure 1001 to 1050)
Temperature conductor phase at 70°C

Project: **Borssele-Tilburg ZW380** Originate: AS Approver: MVN Checker: JAW Date: 12-07-2016

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Tel: 030 - 266 5565

Scale: 20.0 m Horiz. Scale, 3.0 m Vert. Scale
Drawing Number: **ZW380-DT1-P11**
Page 3/14 Rev P11



- Notes:**
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
 5. Phase Conductor shown represents the middle of the bundel (500mm conductor separation new Wintrack line). RSG shown represents the center of the bundel (200mm conductor separation).
 6. This drawing is produced using PLS-Pole Models (New Wintrack line) based on dimensions from pole drawings "000.145.11 0254226 Mastenontwerp.dossier 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.
 8. 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 shown at 70°C (150 kV) (Creep RS) _____
 Conductor phase shown at 70°C (380 kV) (Creep RS) _____
 Earthwire shown at 15°C (Creep RS) _____
 OPGW 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.

Feature Description	Symbol	380kV-Radial Clearance (m)	150kV-Radial Clearance (m)	0kV-Radial Clearance (m)
Ground	•	10.8	10	8.2
Roads	+	11.8	11	8.2
Railways	×	14	13.2	11.4
Highways	•	12.7	11.8	10.1
Buildings	•	7.7	6.9	5.1
Water	~	>8.3	>8.5	>8.7

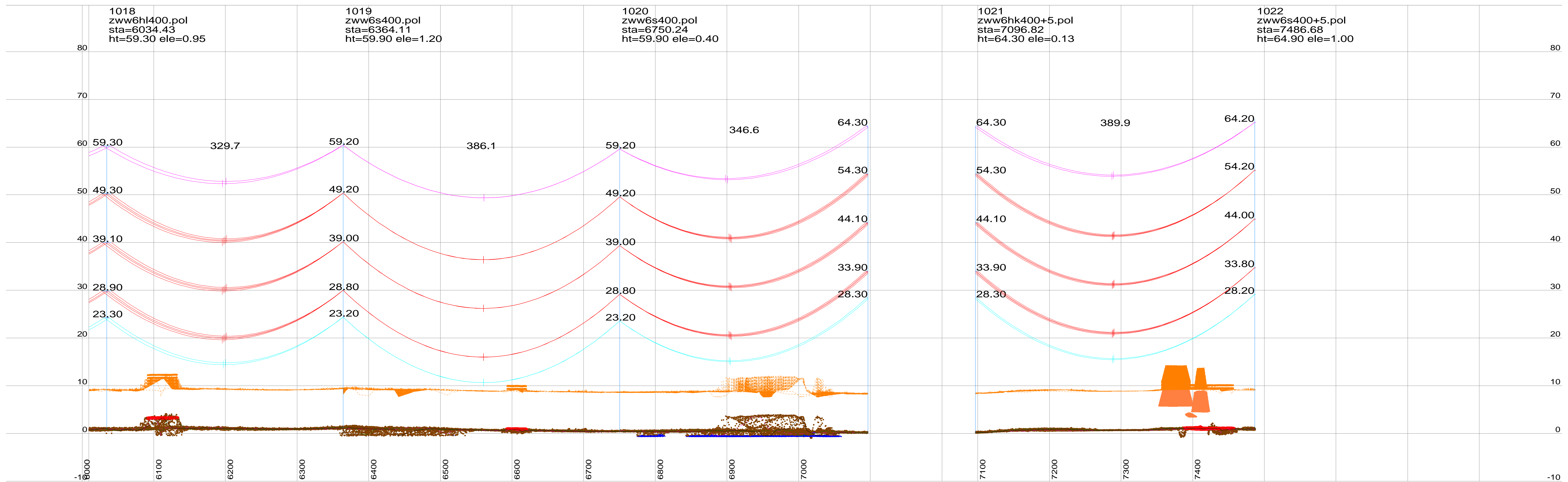
Rev	Date	Description	By	Chk	App
P11	06-07-2016	Eleventh Issue Preliminary Line Profile Drawings	AS	JAW	MVN
P10	11-08-2015	Tenth Issue Preliminary Line Profile Drawings	TG	MV	MVN
P10	19-08-2014	Ninth Issue Preliminary Line Profile Drawings	TG	MV	MVN

Preliminary Line Profile Drawings
 Section DT1 (Structure 1001 to 1050)
 Temperature conductor phase at 70°C

Borssele-Tilburg ZW380

Originator: AS
 Approver: MVN
 Checker: JAW
 Date: 11-08-2016

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 3500 OIV Usseste
 Tel: 030 - 266 5565



Notes:

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
5. 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).
6. This drawing is produced using PLS-Pole Models (New Wintrack line) based on dimensions from pole drawings "000.145.11 0254226 Mastenontwerp dossier 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.
8. 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 shown at 70°C (150 kV) (Creep RS)
 - Conductor phase shown at 70°C (380 kV) (Creep RS)
 - Earthwire shown at 15°C (Creep RS)
 - OPGW 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.

Feature Description	Symbol	380kV-Radial Clearance (m)	150kV-Radial Clearance (m)	0kV-Radial Clearance (m)
Ground	•	10.8	10	8.2
Roads	+	11.8	11	8.2
Railways	×	14	13.2	11.4
Highways	•	12.7	11.8	10.1
Buildings	•	7.7	6.9	5.1
Water	~	>8.3	>8.5	>8.7

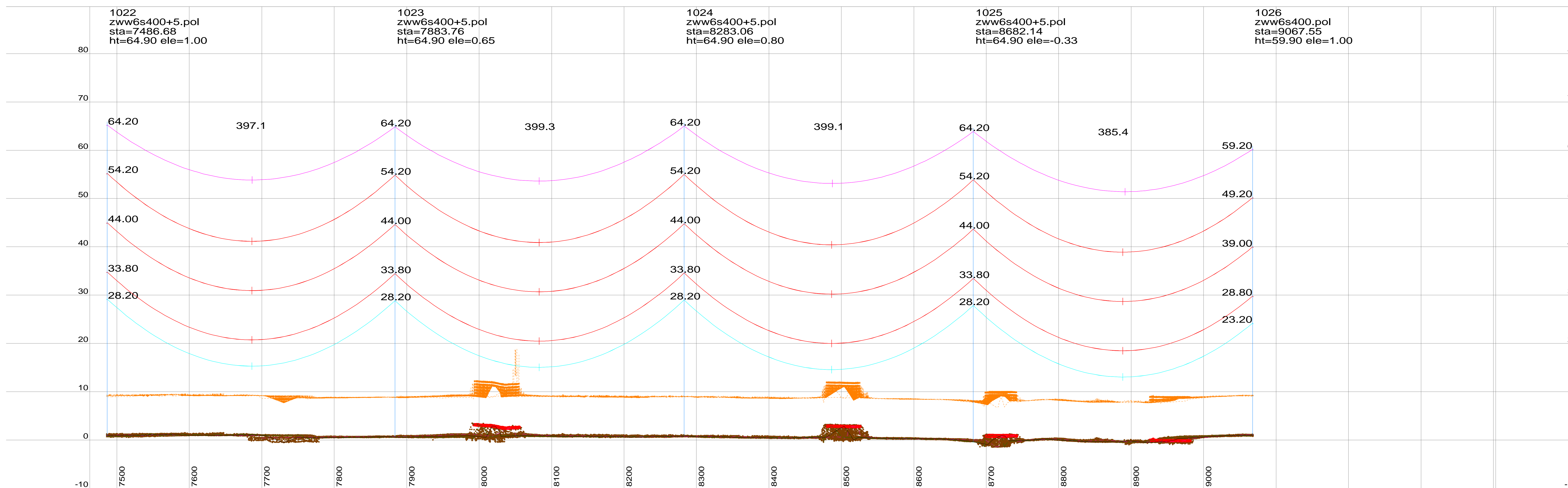
Rev	Date	Description	By	Chk	App
P11	06-07-2016	Eleventh Issue Preliminary Line Profile Drawings	AS	JAW	MVN
P10	11-08-2015	Tenth Issue Preliminary Line Profile Drawings	TG	MV	MVN
P9	19-08-2014	Ninth Issue Preliminary Line Profile Drawings	TG	MV	MVN

Preliminary Line Profile Drawings
Section DT1 (Structure 1001 to 1050)
Temperature conductor phase at 70°C

Project: **Borssele-Tilburg ZW380** Originate: AS Approver: MVN Checker: JAW Date: 12-07-2016

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3500 OIV Usseste
Tel: 030 - 265 5565

Scale: 20.0 m Horiz. Scale, 3.0 m Vert. Scale
Drawing Number: **ZW380-DT1-P11**
Page 5/14 Rev P11



Notes:

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 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.
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Feature Description	Symbol	380kV-Radial Clearance (m)	150kV-Radial Clearance (m)	0kV-Radial Clearance (m)
Ground	•	10.8	10	8.2
Roads	+	11.8	11	8.2
Railways	×	14	13.2	11.4
Highways	•	12.7	11.8	10.1
Buildings	•	7.7	6.9	5.1
Water	~	>8.3	>8.5	>8.7

Rev	Date	Description	By	Chk	App
P11	06-07-2016	Eleventh Issue Preliminary Line Profile Drawings	AS	JAW	MVN
P10	11-08-2015	Tenth Issue Preliminary Line Profile Drawings	TG	MV	MVN
P9	19-08-2014	Ninth Issue Preliminary Line Profile Drawings	TG	MV	MVN

Preliminary Line Profile Drawings
 Section DT1 (Structure 1001 to 1050)
 Temperature conductor phase at 70°C

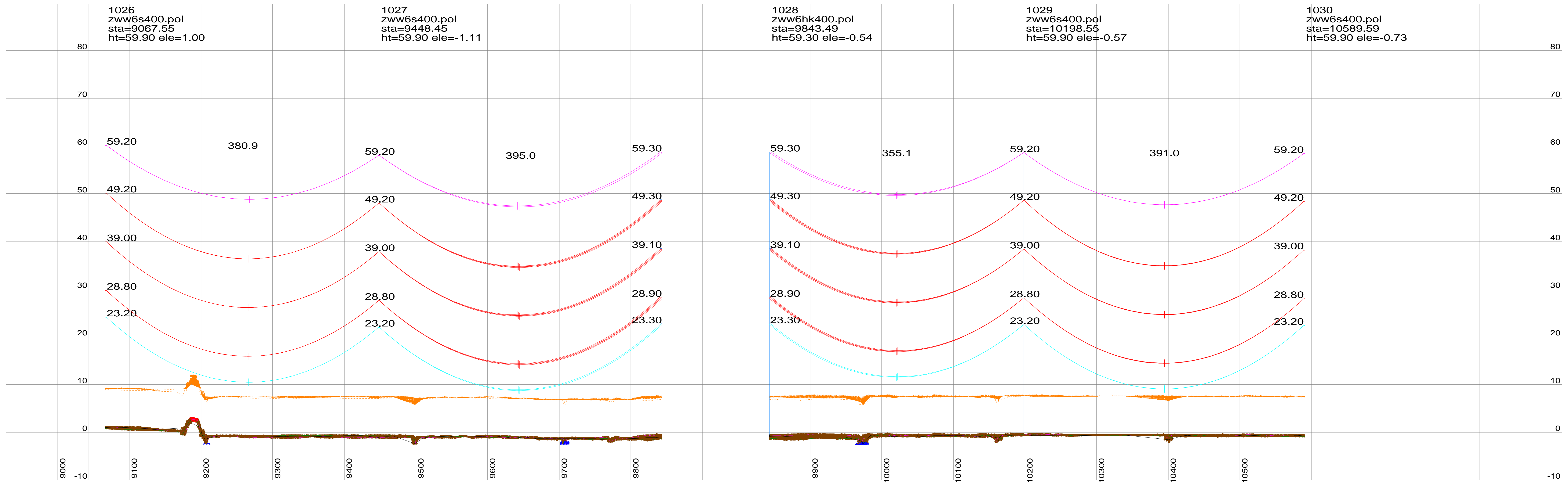
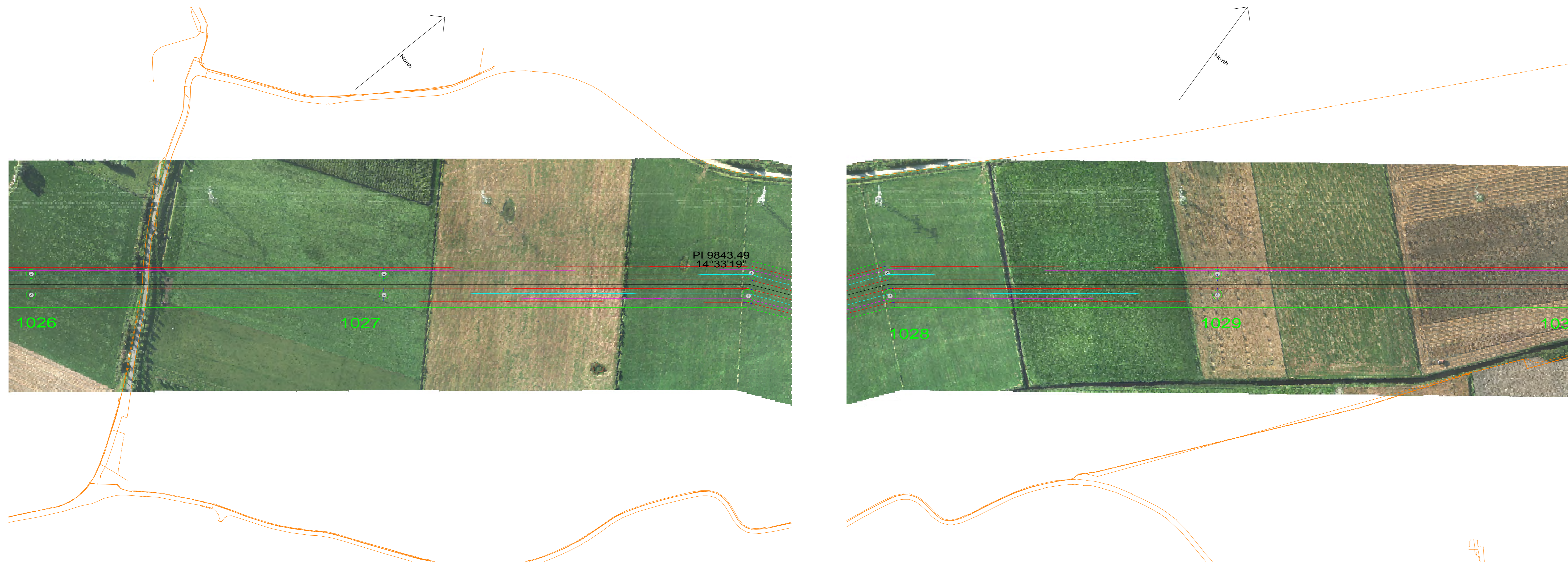
Project:	Borssele-Tilburg ZW380	Originator:	AS	Checker:	JAW
Approver:	MVN	Date:	12-07-2016		

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Project: P11
 0000-00-00000000
 E-mail: mv@movares.com
 Internet: www.movares.com

Drawing Number: **ZW380-DT1-P11**
 Page 6/14
 Rev P11



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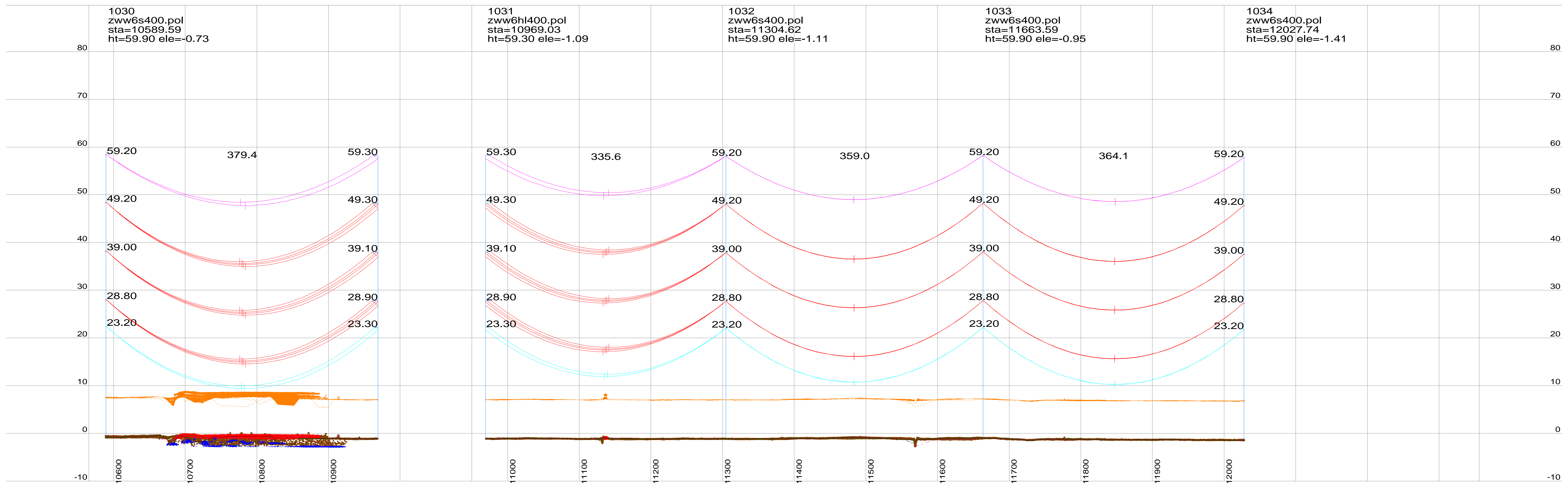
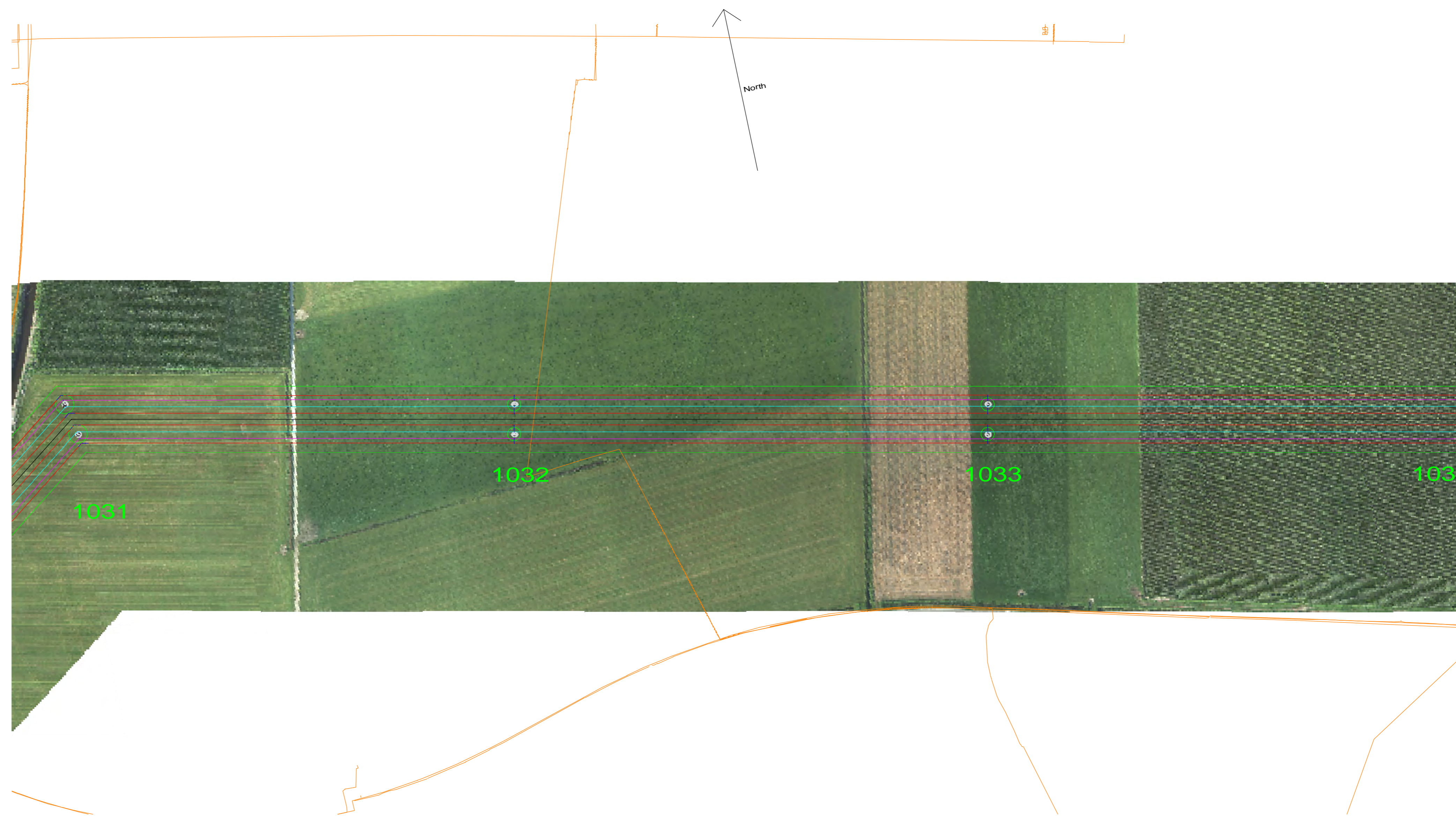
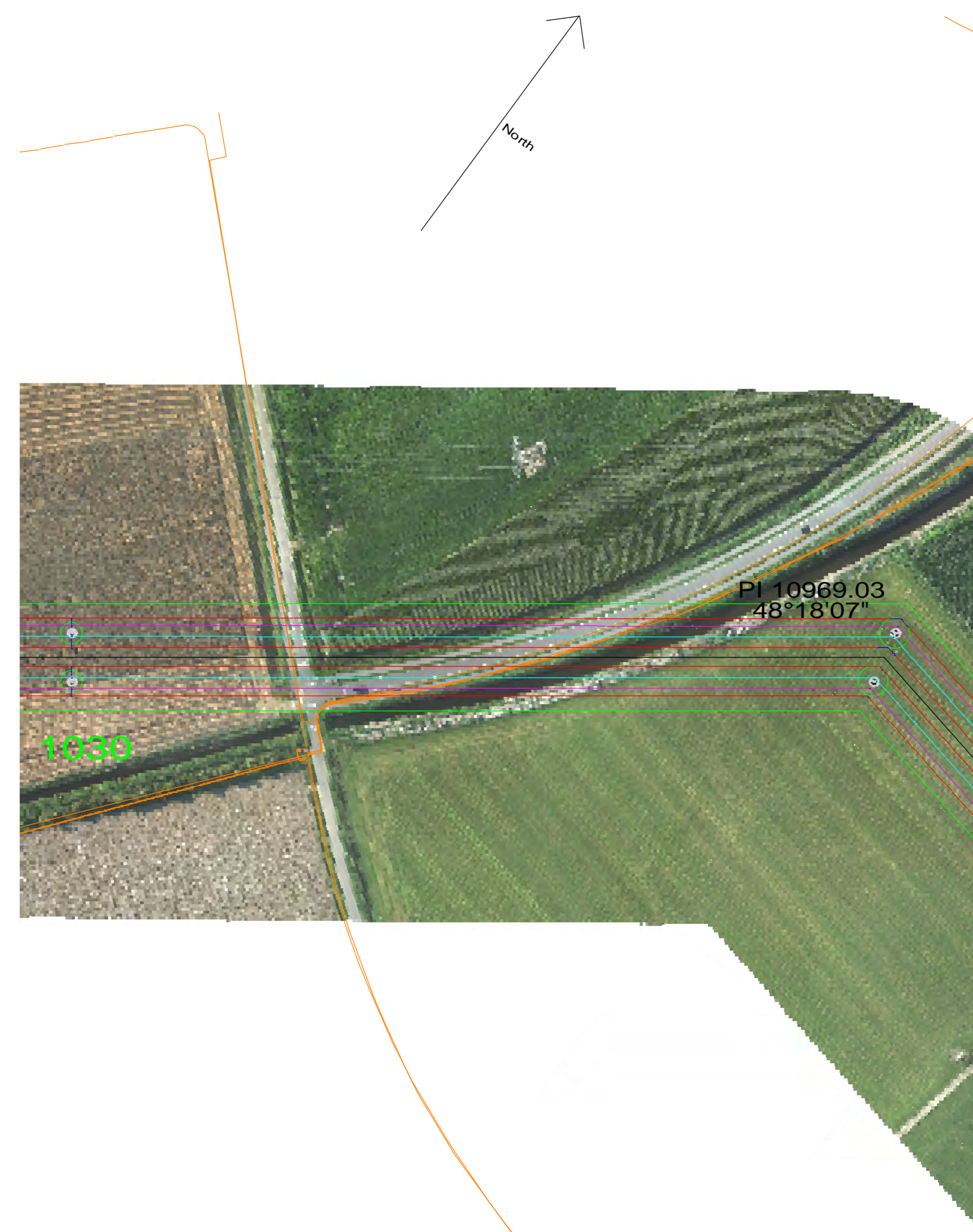
Preliminary Line Profile Drawings
Section DT1 (Structure 1001 to 1050)
Temperature conductor phase at 70°C

Borssele-Tilburg ZW380

Originator: AS
Approver: MVN
Checker: JAW
Date: 12-07-2016

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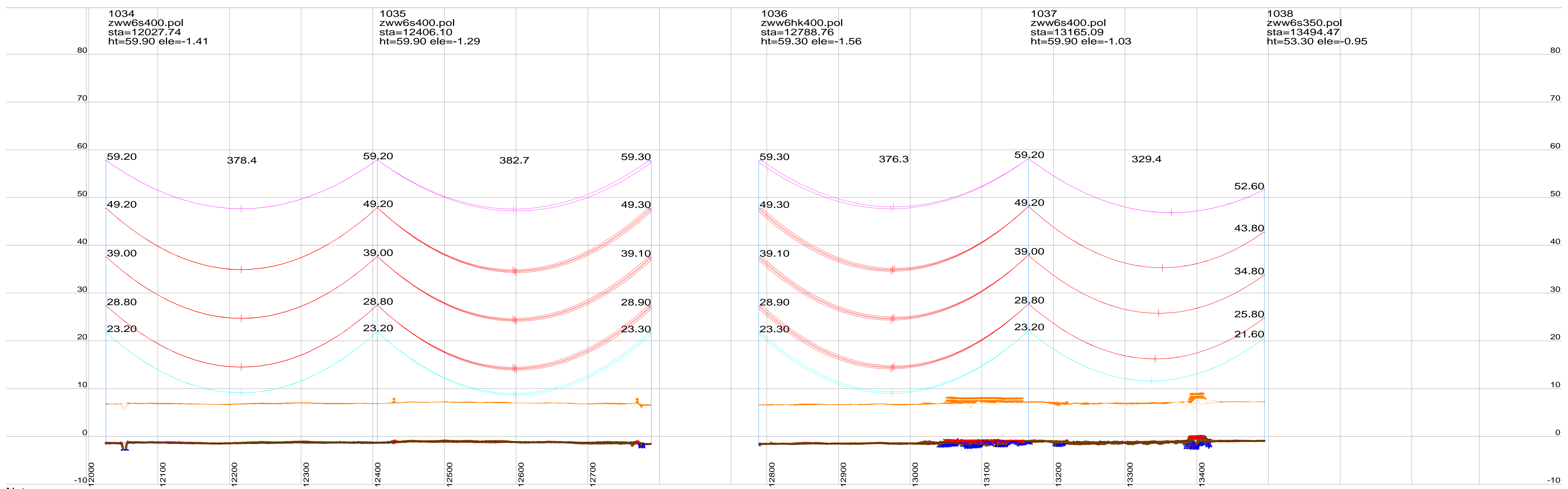
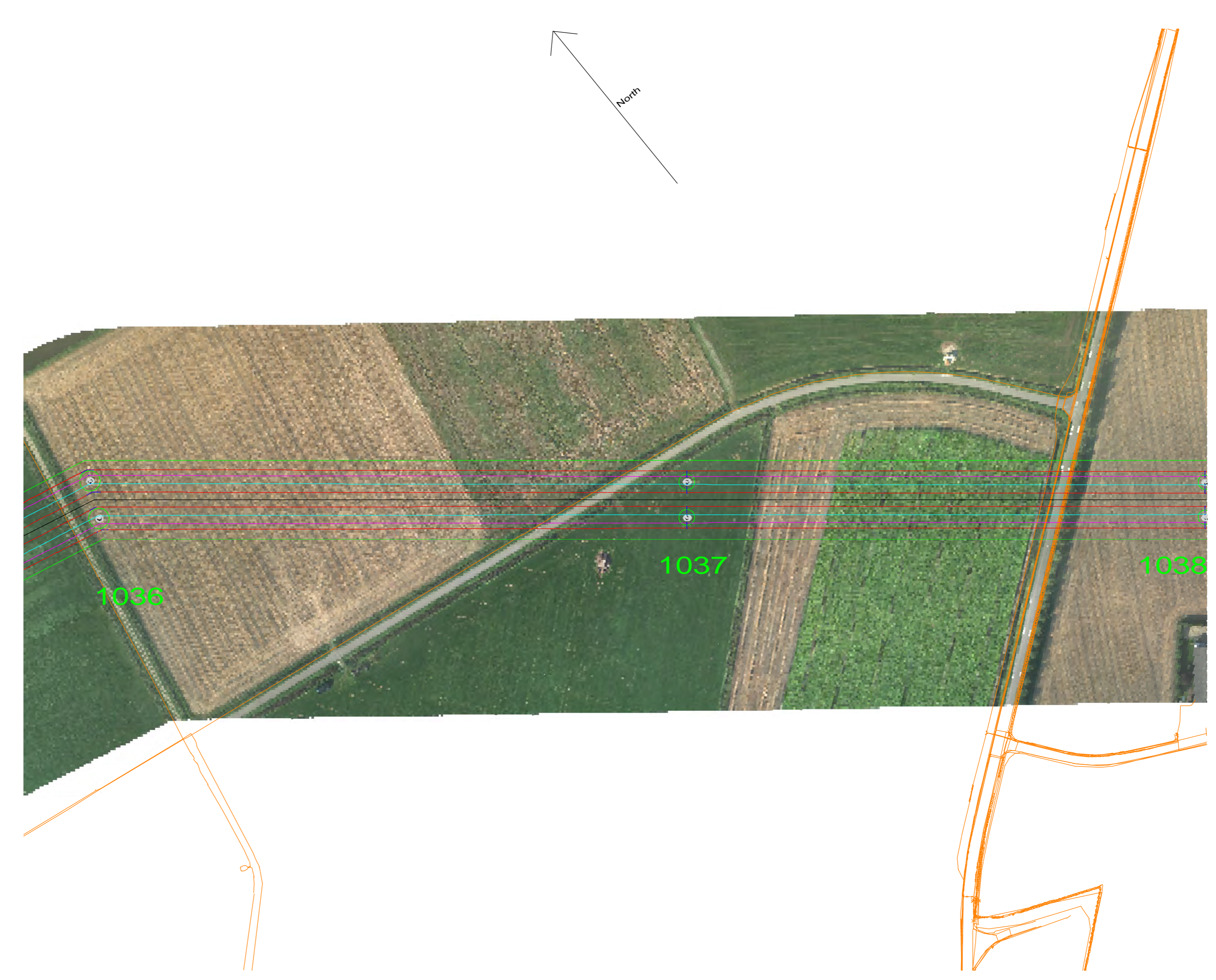
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Preliminary Line Profile Drawings
Section DT1 (Structure 1001 to 1050)
Temperature conductor phase at 70°C

Borssele-Tilburg ZW380

Originator: AS
Approver: MVN
Checker: JAW
Date: 12-07-2016

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Roads	+	11.8	11	8.2
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Preliminary Line Profile Drawings
Section DT1 (Structure 1001 to 1050)
Temperature conductor phase at 70°C

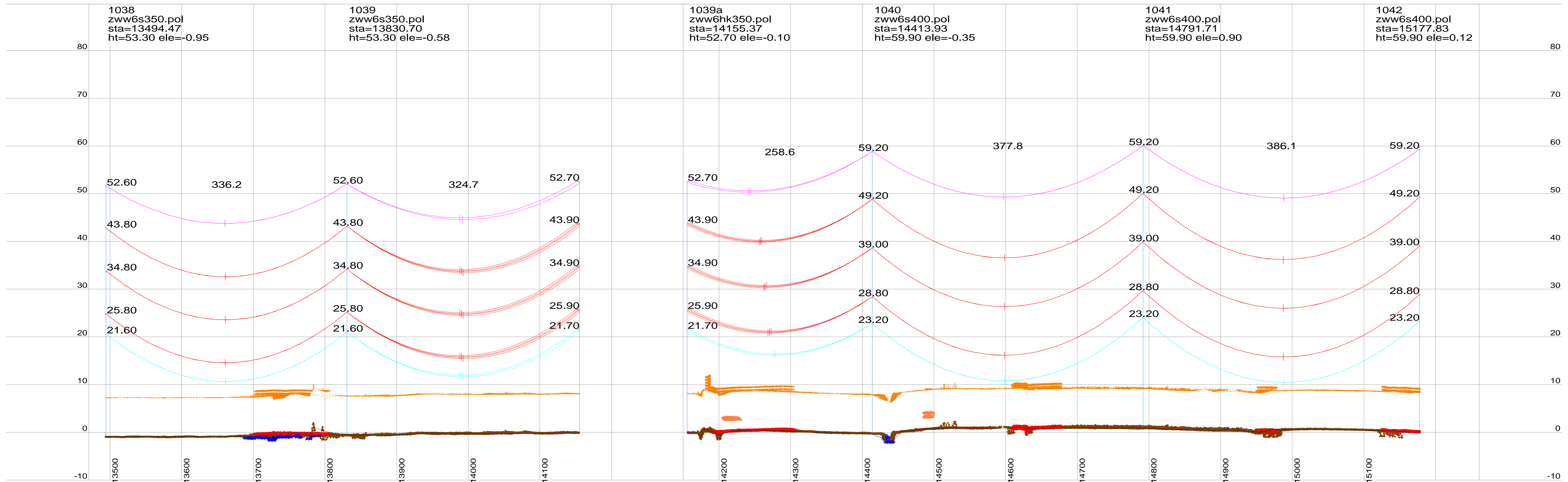
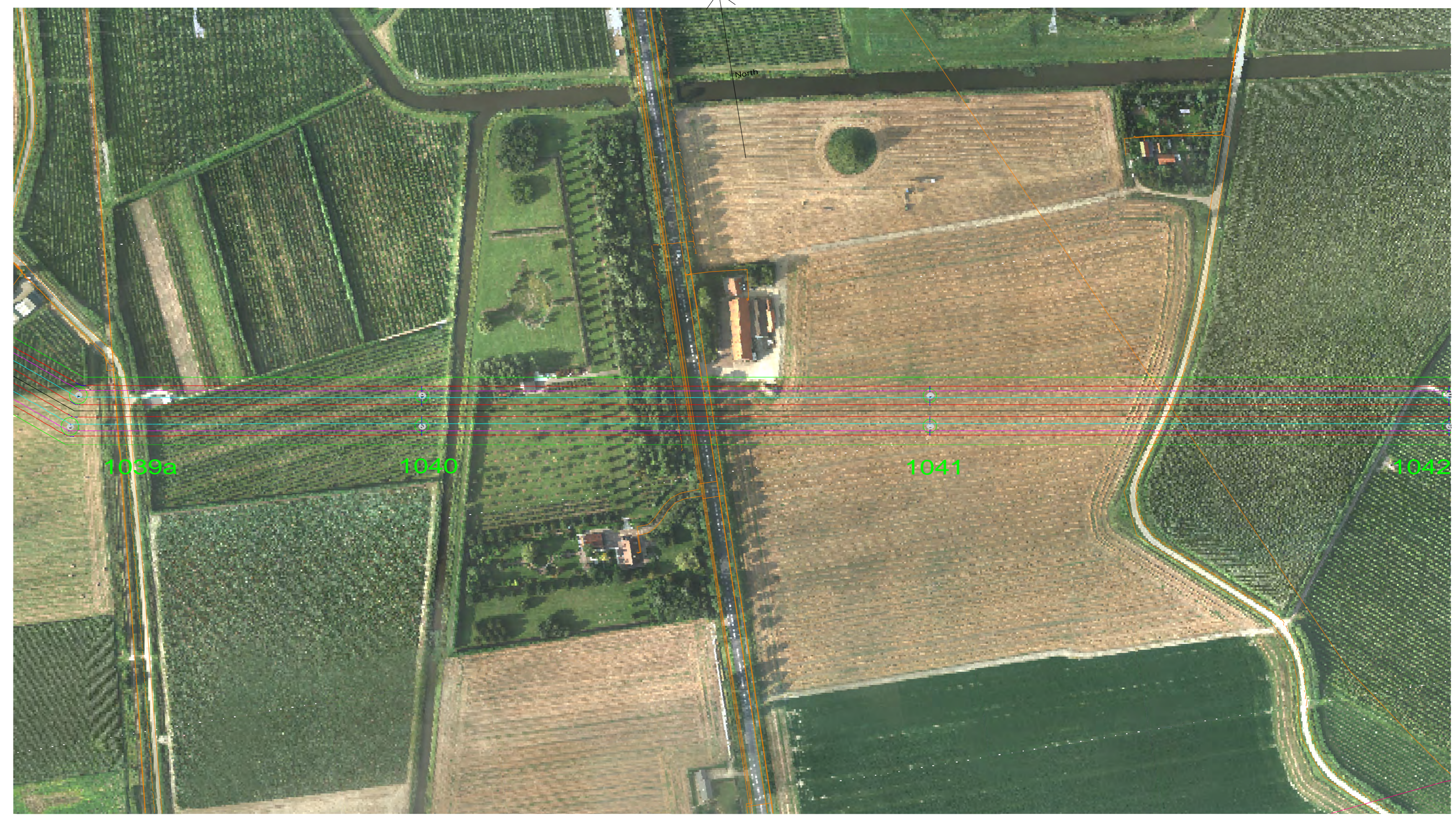
Project: **Borssele-Tilburg ZW380** Originate: AS Approver: MVN Checker: JAW Date: 12-07-2016

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Scale: 20.0 m Horiz. Scale
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Drawing Number: **ZW380-DT1-P11**
Page 9/14 Rev P11



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Preliminary Line Profile Drawings
Section DT1 (Structure 1001 to 1050)
Temperature conductor phase at 70°C

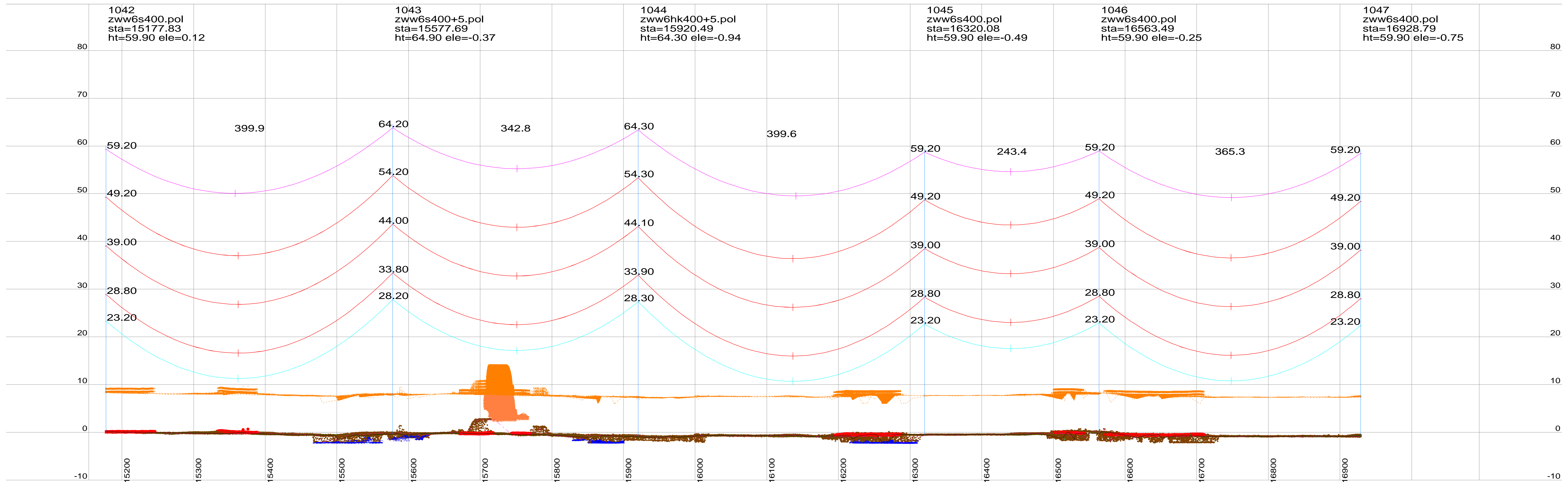
Project: **Borssele-Tilburg ZW380**
Originator: AS
Approver: MVN
Checker: JAW
Date: 12-07-2016

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Scale: 20.0 m Horiz. Scale
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Drawing Number: **ZW380-DT1-P11**
Page 10/14
Rev P11



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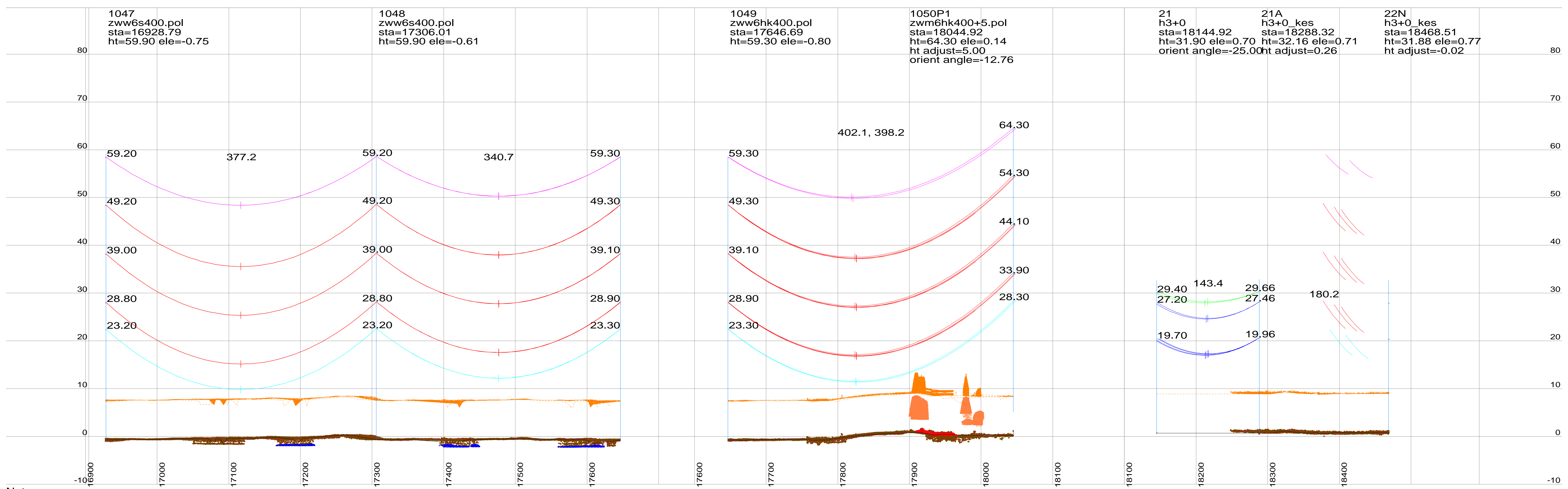
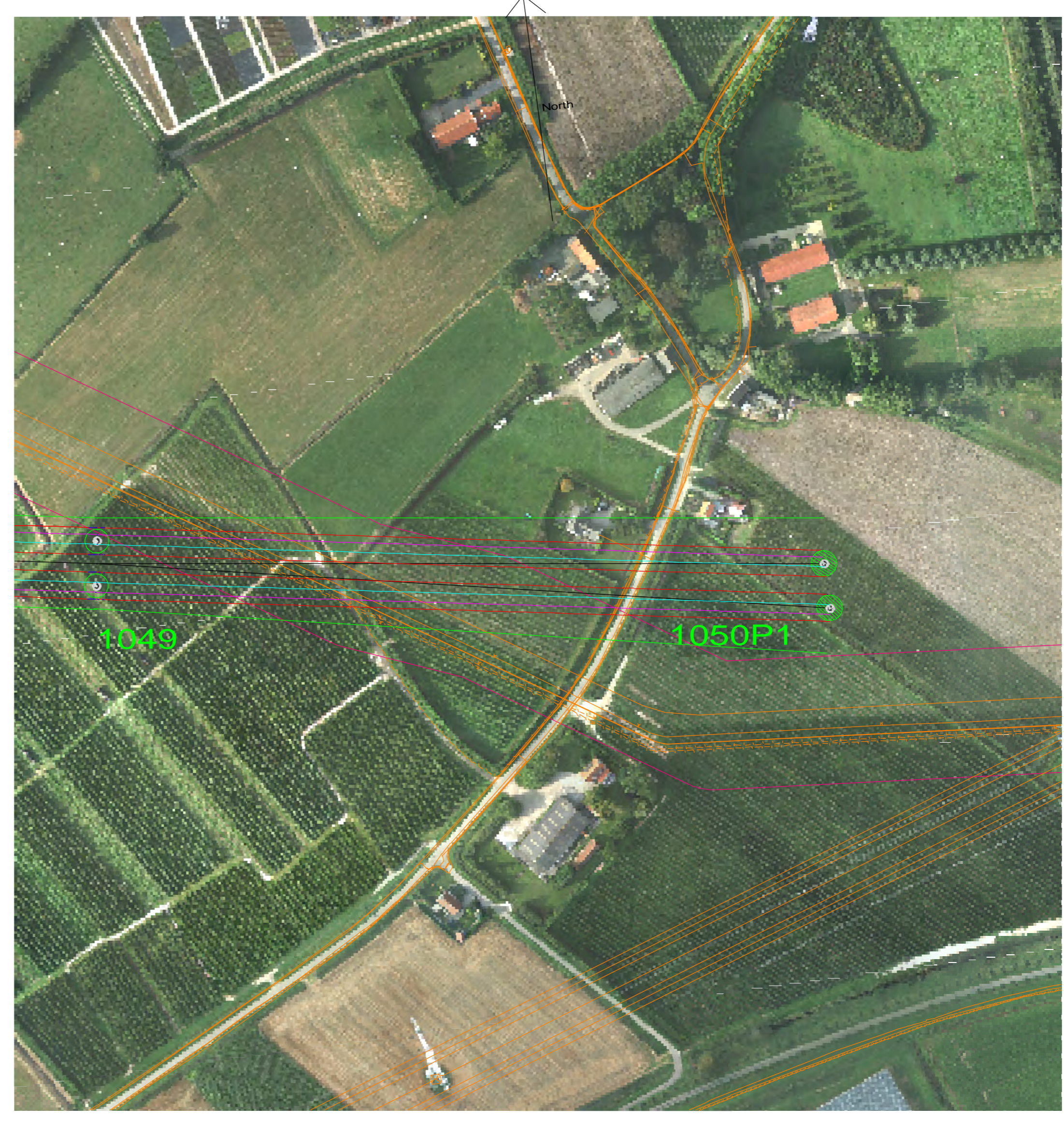
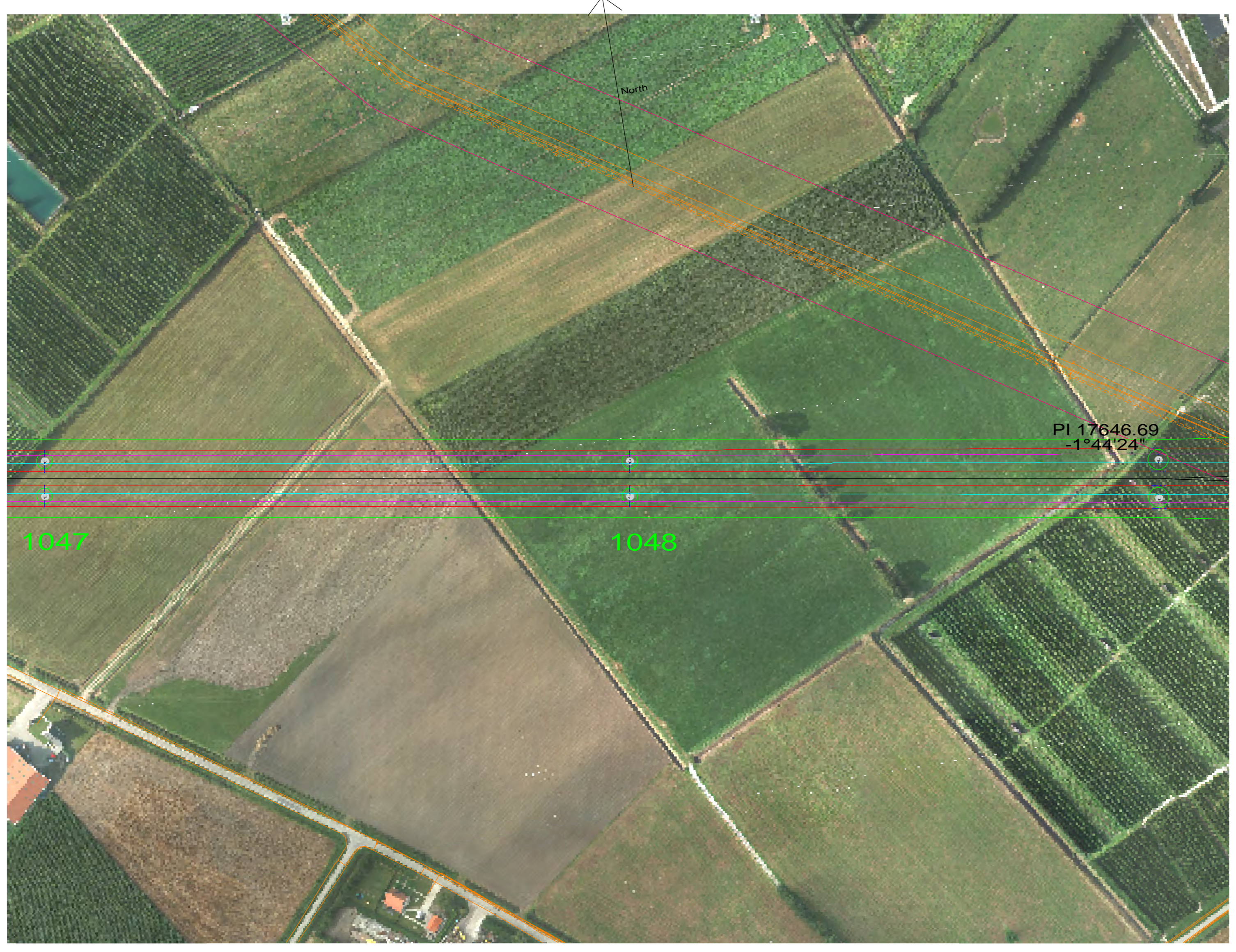
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Drawing Title: Preliminary Line Profile Drawings Section DT1 (Structure 1001 to 1050) Temperature conductor phase at 70°C

Project: Borssele-Tilburg ZW380

Originator: AS **Checker:** JAW
Approver: MVN **Date:** 12-07-2016

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 Tel: 030 - 265 5555



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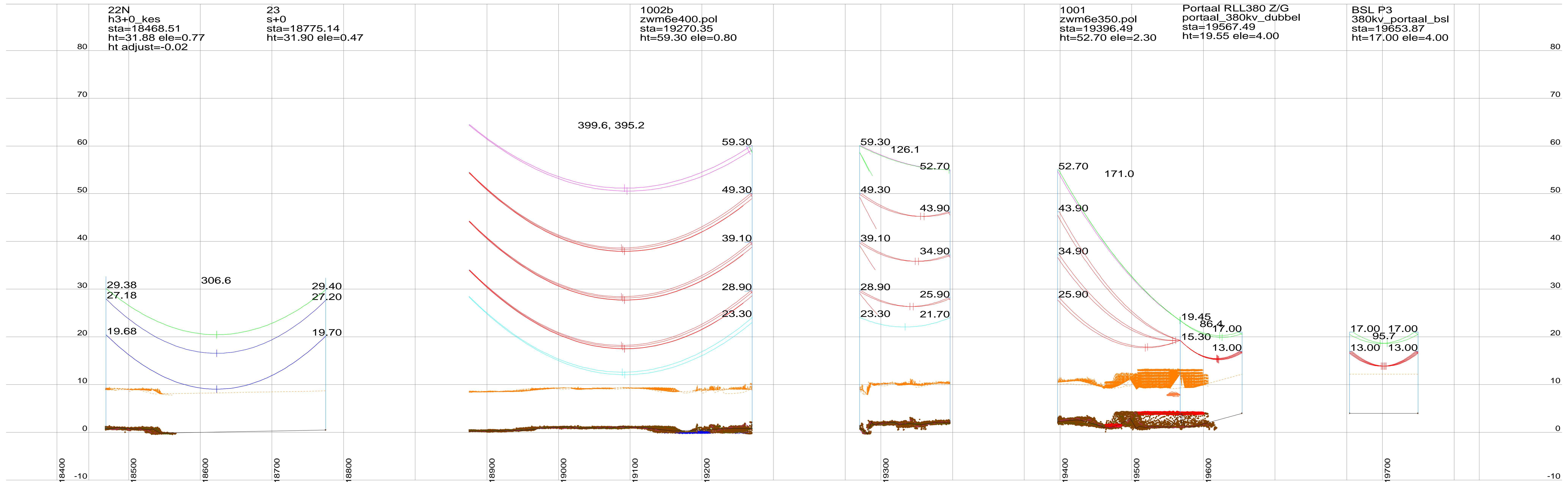
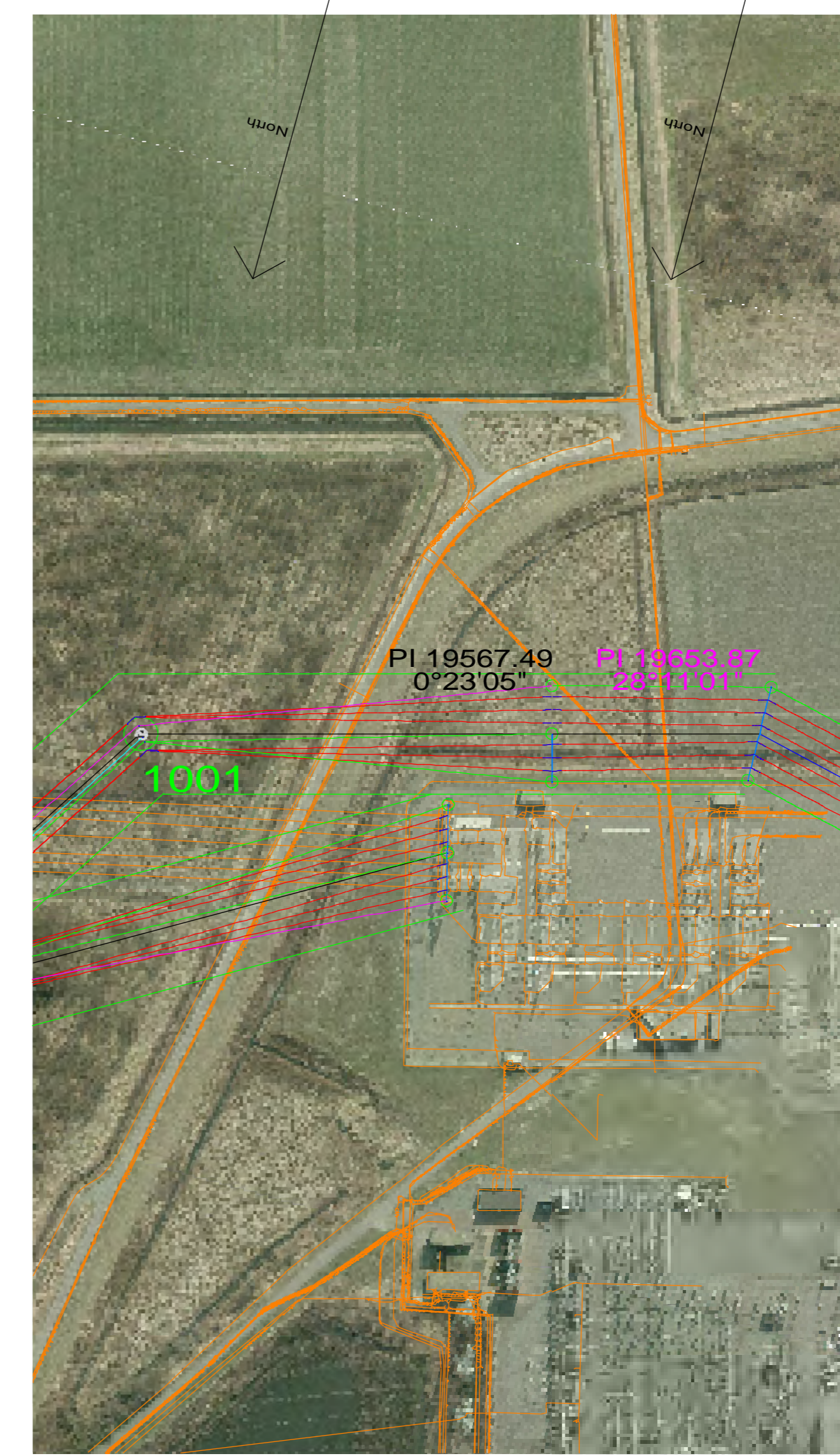
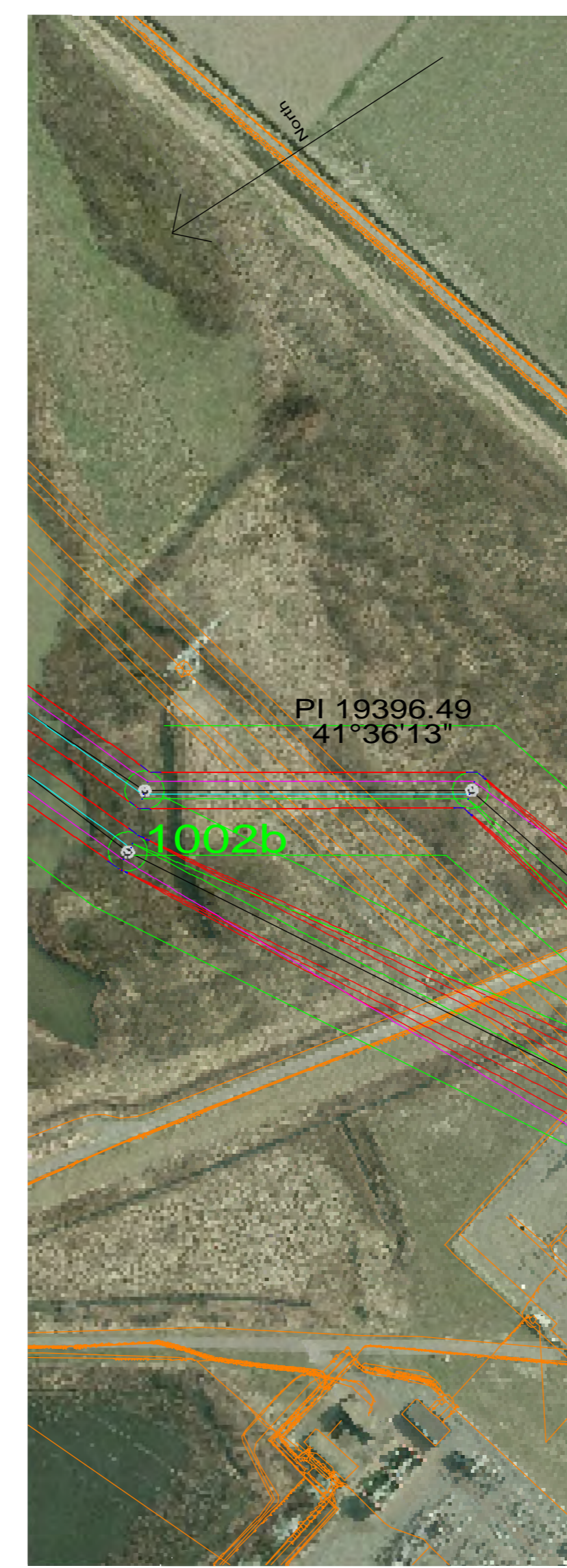
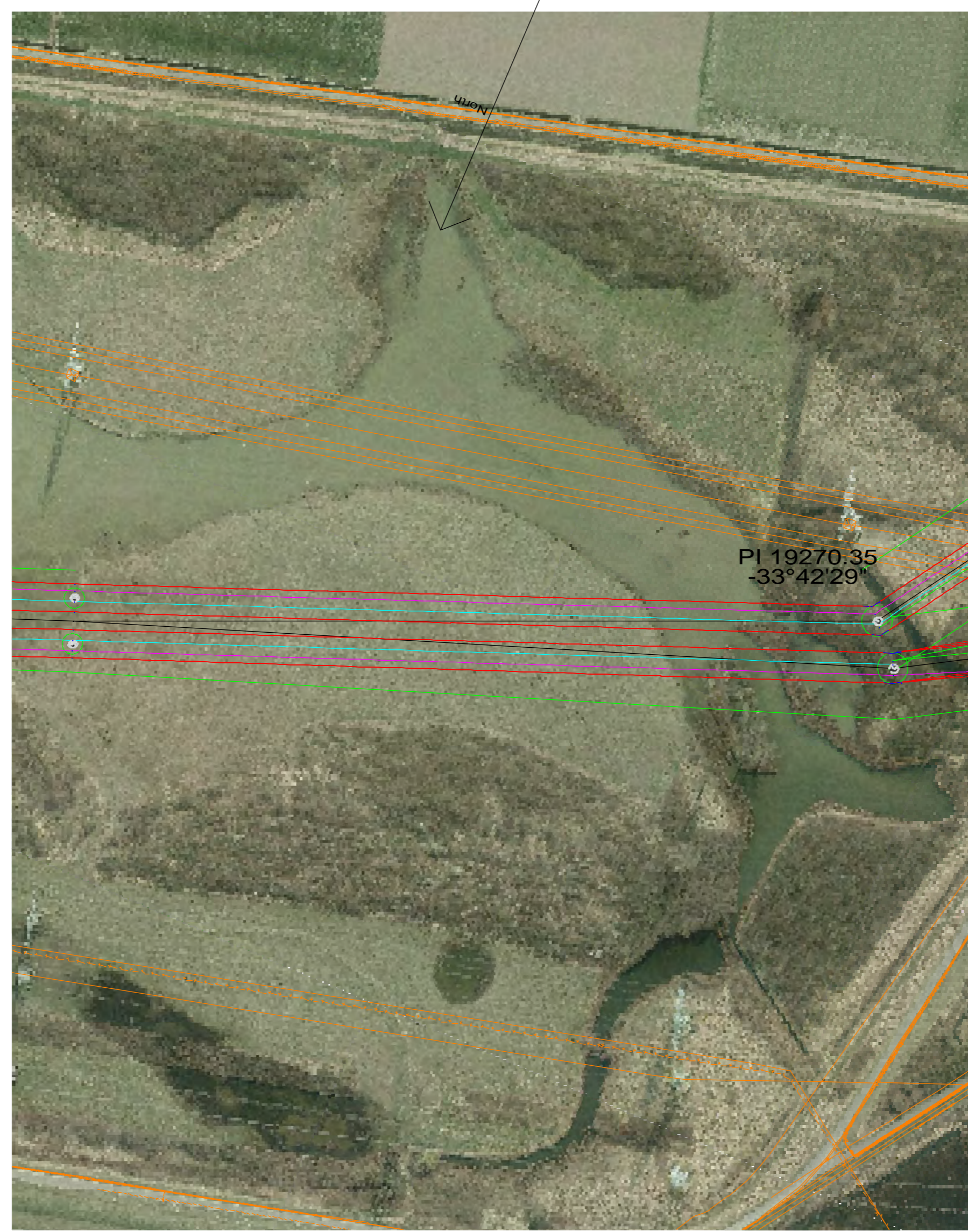
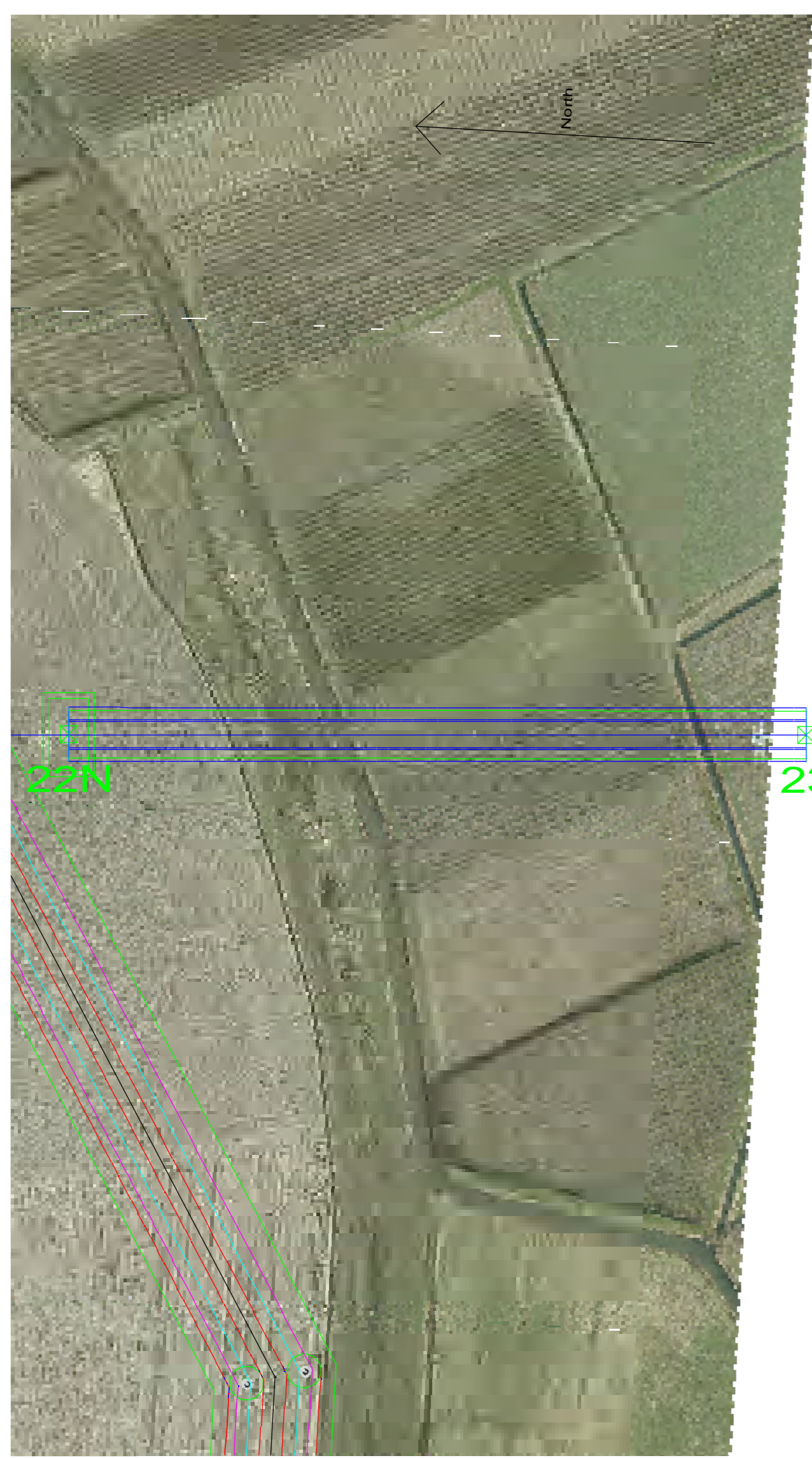
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Preliminary Line Profile Drawings
Section DT1 (Structure 1001 to 1050)
Temperature conductor phase at 70°C

Project: **Borssele-Tilburg ZW380** Originate: AS Approver: MVN Checker: JAW Date: 12-07-2016

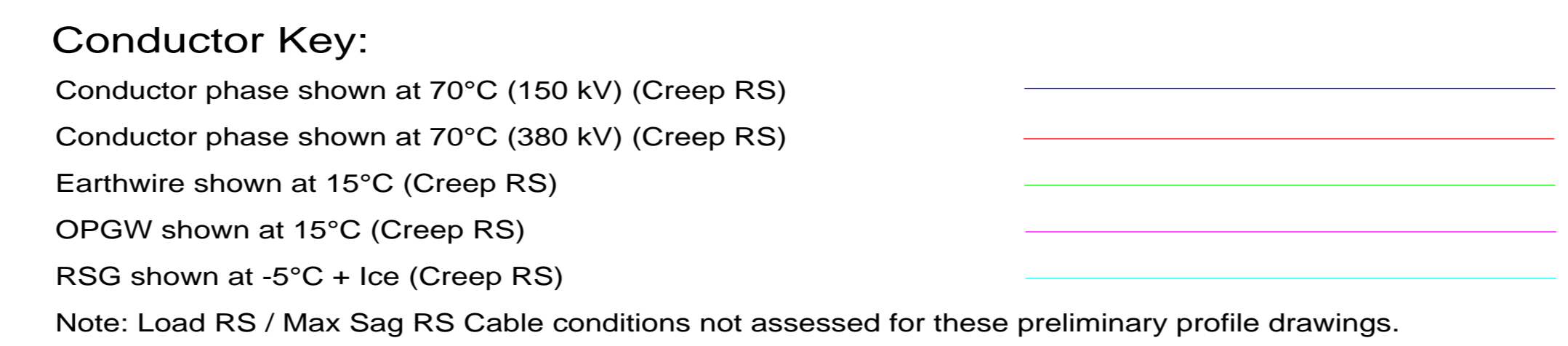
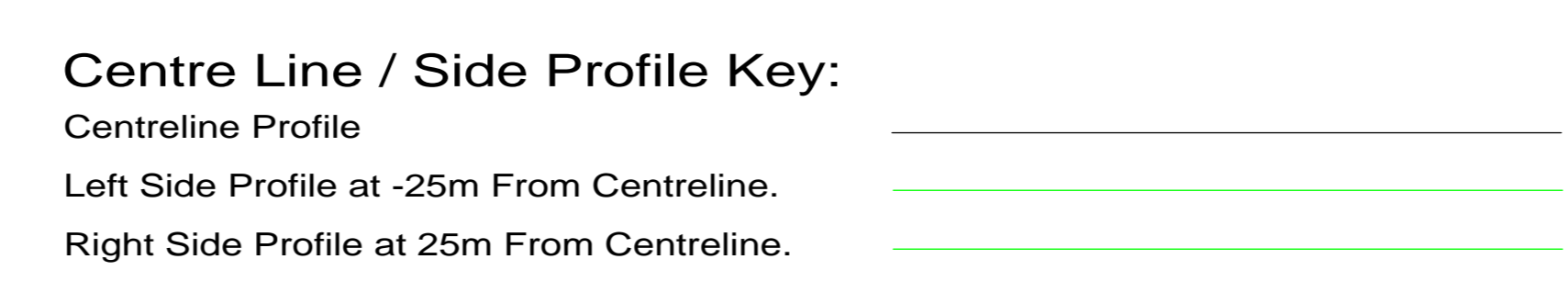
Movares
PO Box 2855
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Drawing Number: **ZW380-DT1-P11**
Page 12/14 Rev P11



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6. This drawing is produced using PLS-Pole Models (New Wintrack line) based on dimensions from pole drawings "000.145.11 0254226 Mastenontwerp.dossier 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.
8. 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.



Feature Description	Symbol	380V-Radial Clearance (m)	150kV-Radial Clearance (m)	0kV-Radial Clearance (m)
Ground	•	10.8	10	8.2
Roads	+	11.8	11	8.2
Railways	×	14	13.2	11.4
Highways	•	12.7	11.8	10.1
Buildings	▲	7.7	6.9	5.1
Water	○	>8.3	>8.5	>8.7

Rev	Date	Description	By	Chk	App
P11	06-07-2016	Eleventh Issue Preliminary Line Profile Drawings	AS	JAW	MVN
P10	11-08-2015	Tenth Issue Preliminary Line Profile Drawings	TG	MV	MVN
P9	19-08-2014	Ninth Issue Preliminary Line Profile Drawings	TG	MV	MVN

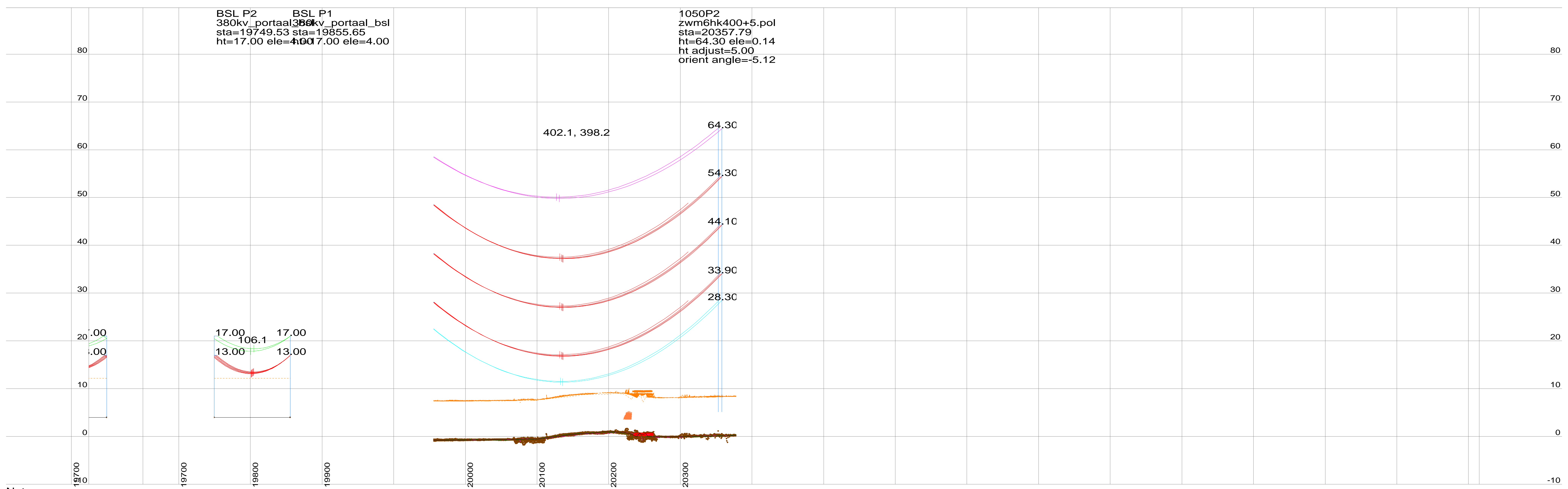
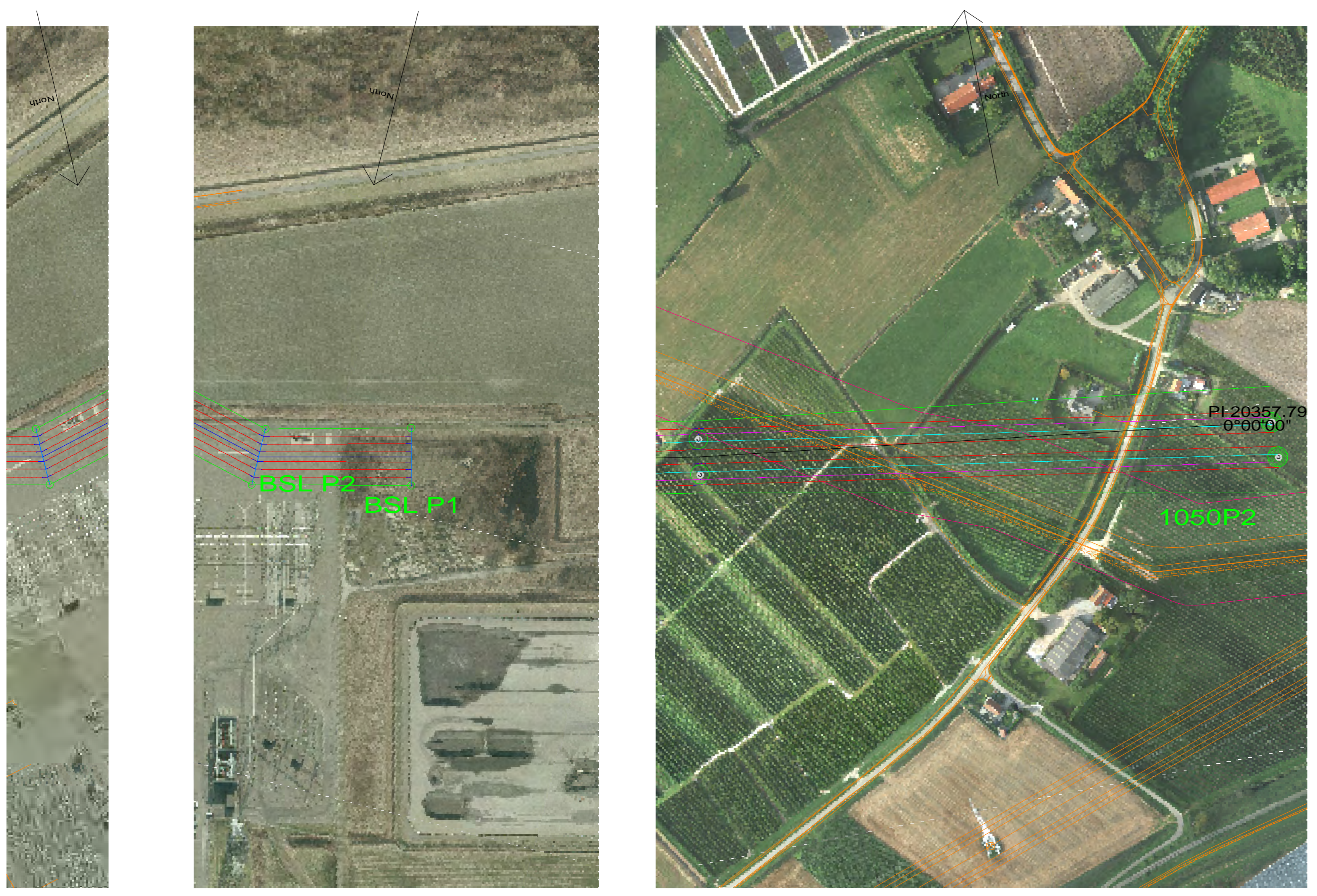
Preliminary Line Profile Drawings
 Section DT1 (Structure 1001 to 1050)
 Temperature conductor phase at 70°C

Borssele-Tilburg ZW380

Originator: AS
 Approver: MVN
 Checker: JAW
 Date: 12-07-2016

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Notes:

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

Feature Description	Symbol	380V-Radial Clearance (m)	150kV-Radial Clearance (m)	0kV-Radial Clearance (m)
Ground	•	10.8	10	8.2
Roads	•	11.8	11	8.2
Railways	×	14	13.2	11.4
Highways	•	12.7	11.8	10.1
Buildings	•	7.7	6.9	5.1
Water	~	>8.3	>8.5	>8.7

Rev	Date	Description	By	Chk	App
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Preliminary Line Profile Drawings
 Section DT1 (Structure 1001 to 1050)
 Temperature conductor phase at 70°C

Borssele-Tilburg ZW380

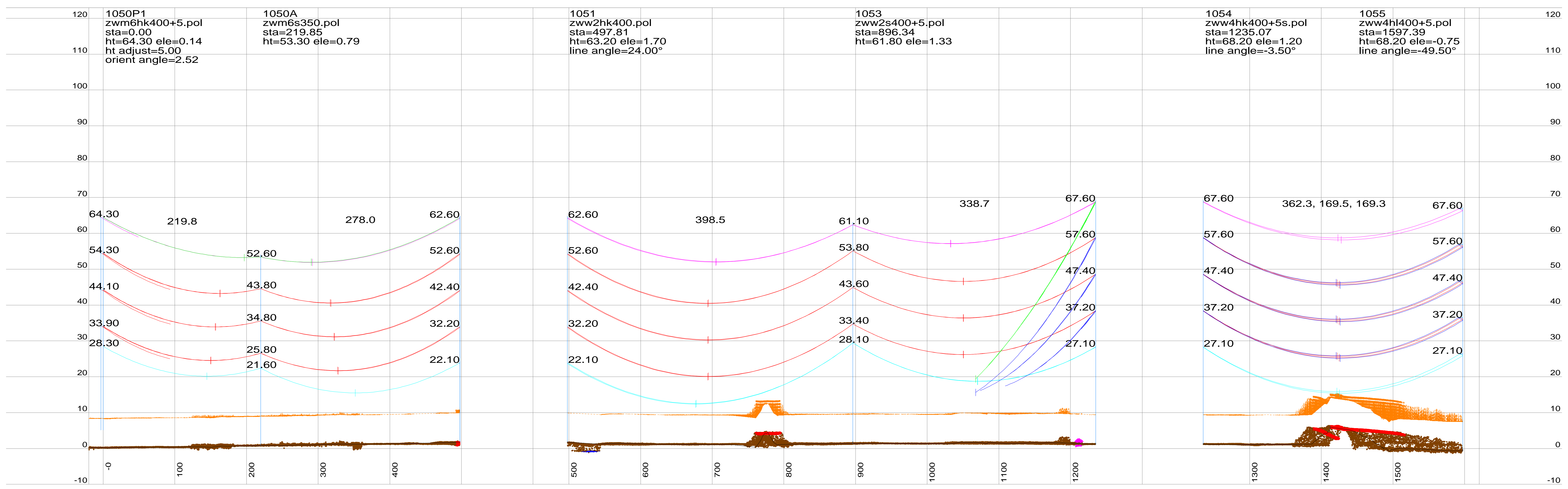
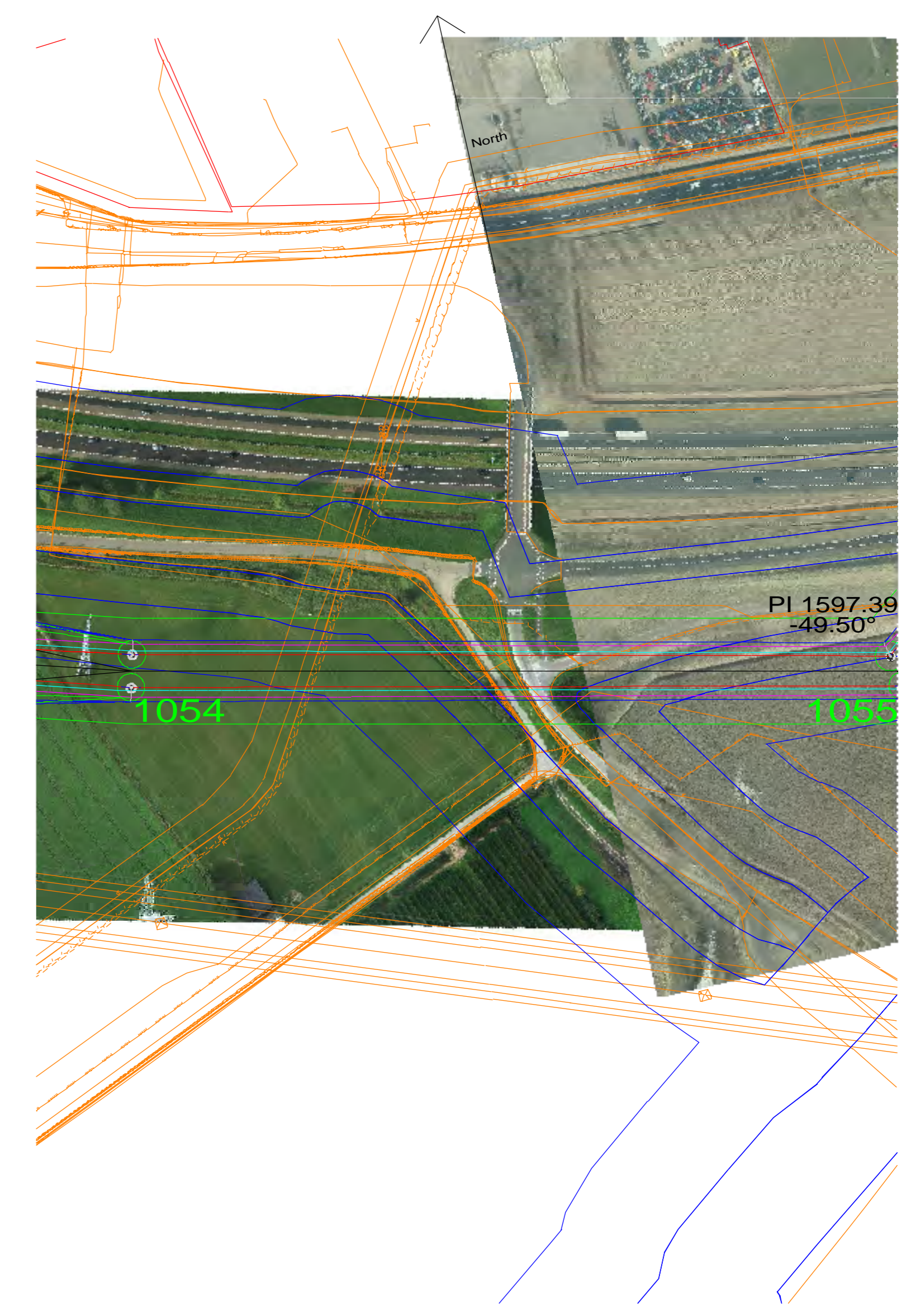
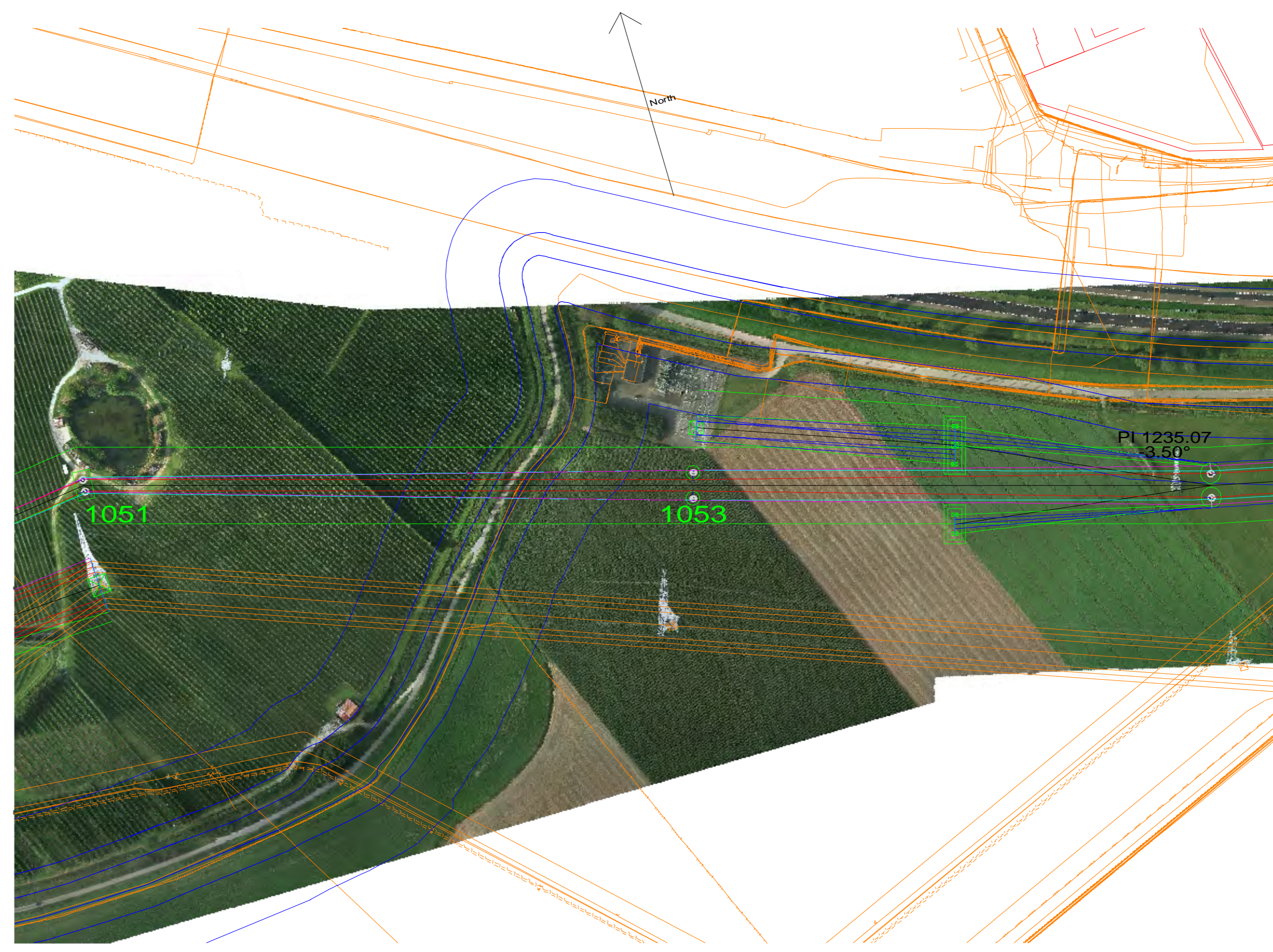
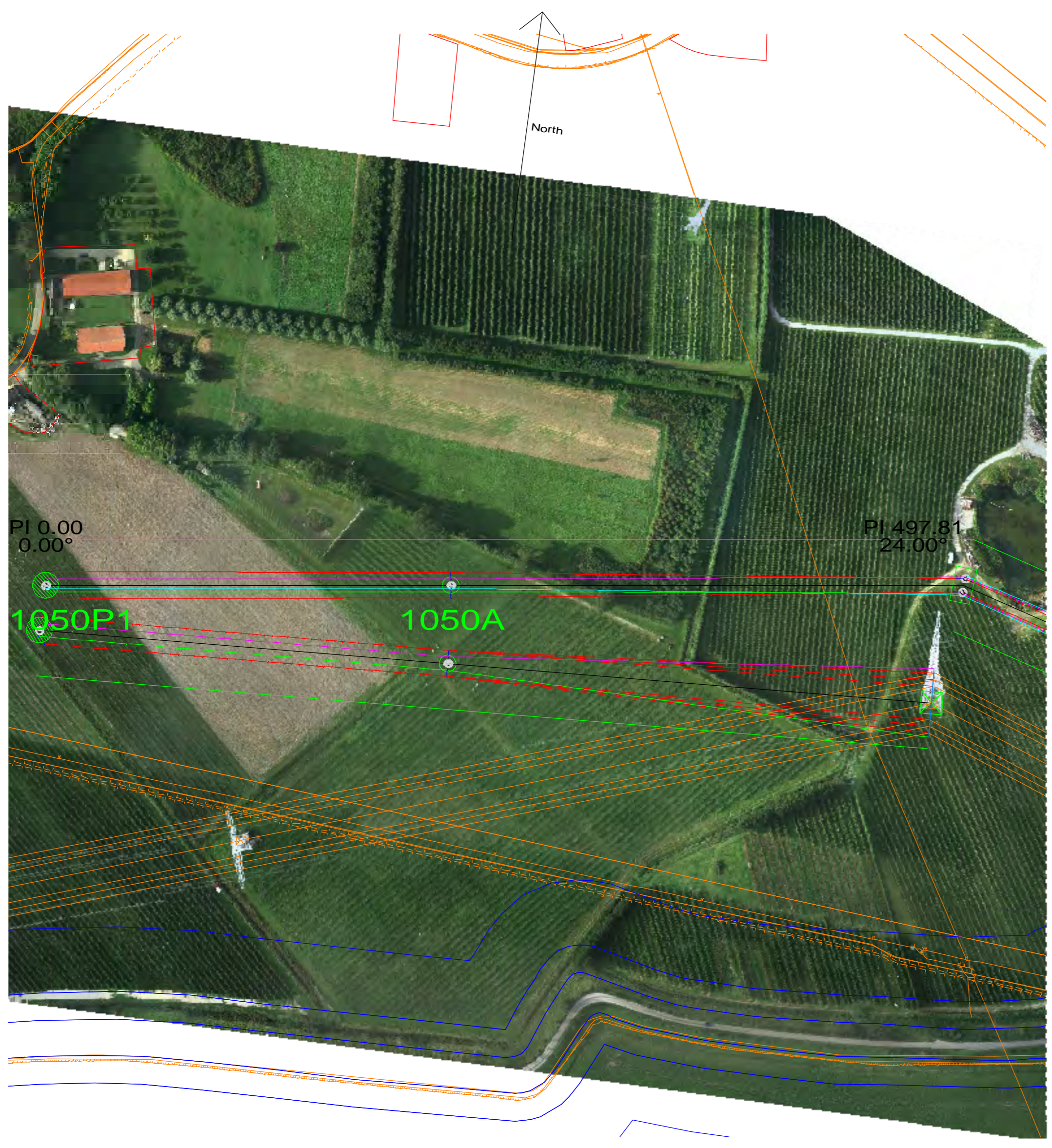
Originator: AS
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 Checker: JAW
 Date: 12-07-2016

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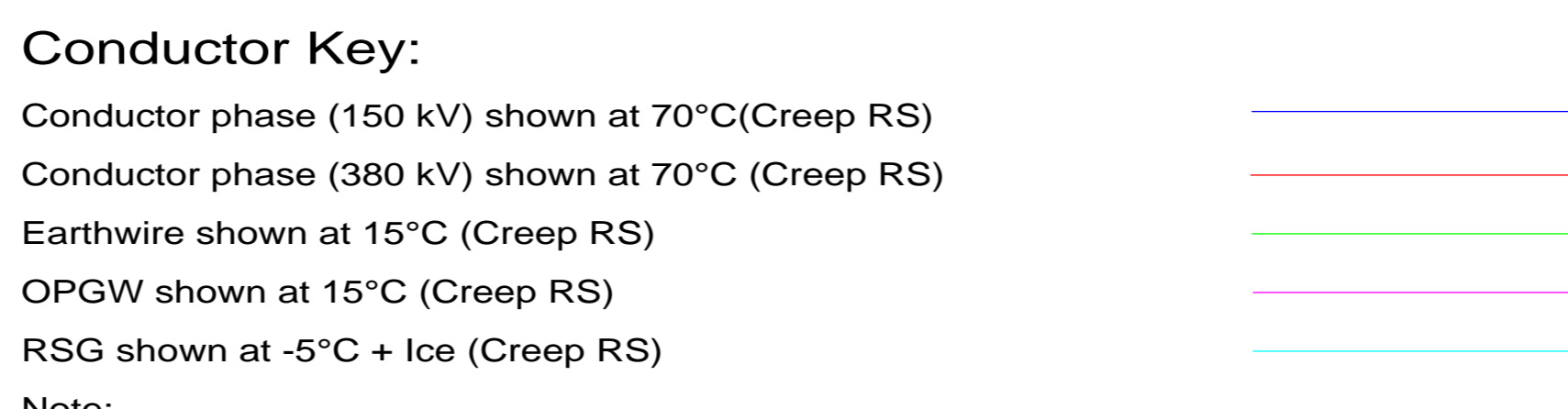
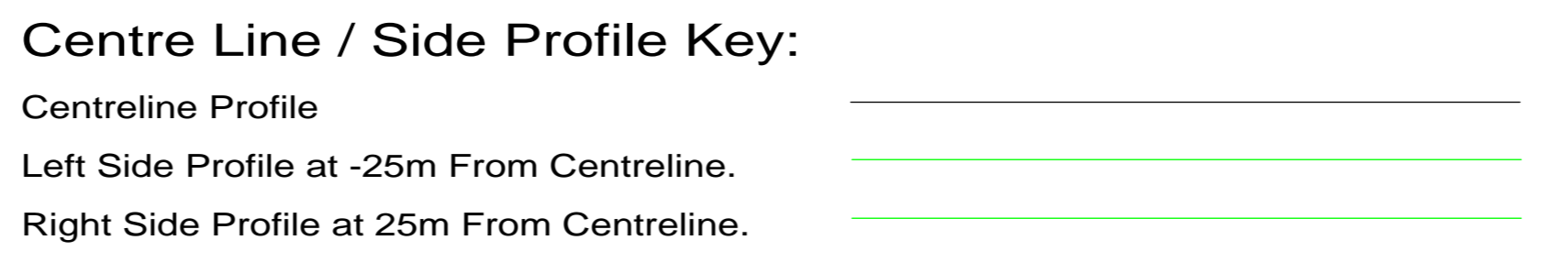
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 Utrechtseweg 310
 6921 AD Borssele
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 9. All dimensions are in metres.



Feature Description	Symbol	380KV-Radial Clearance (m)	150KV-Radial Clearance (m)	0KV-Radial Clearance (m)
Ground	•	10.8	10	8.2
Roads	+	11.8	11	8.2
Railways	×	14	13.2	11.4
Highways	•	12.7	11.8	10.1
Buildings	•	7.7	6.9	5.1
Water	~	>8.3	>8.5	>8.7
Zuid-Beverland Kanaal	~	5.2	5.2	4.4
Foundation Area	⊗			
Pole	⊙			
Buried Services	⊖			

Rev	Date	Description	By	Chk	App
P10	06-07-2016	Tenth Issue Preliminary Line Profile Drawings	AS	JAW	MvN
P9	12-06-2015	Ninth Issue Preliminary Line Profile Drawings	TG	MV	MvN
P8	19-06-2014	Eighth Issue Preliminary Line Profile Drawings	TG	MV	MvN

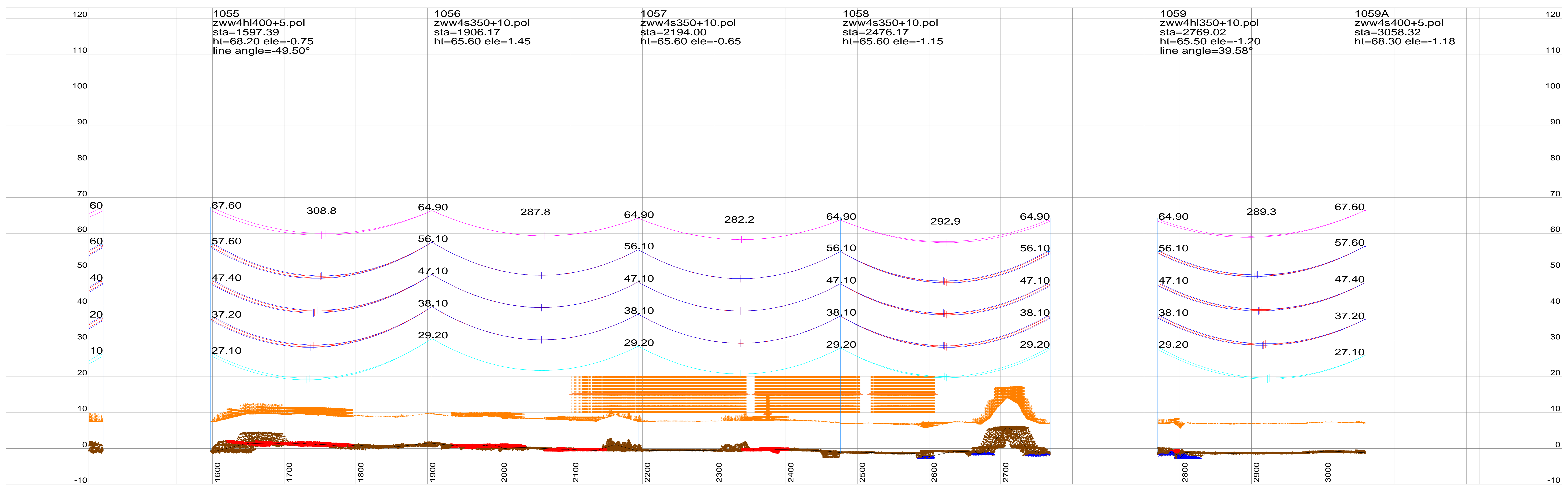
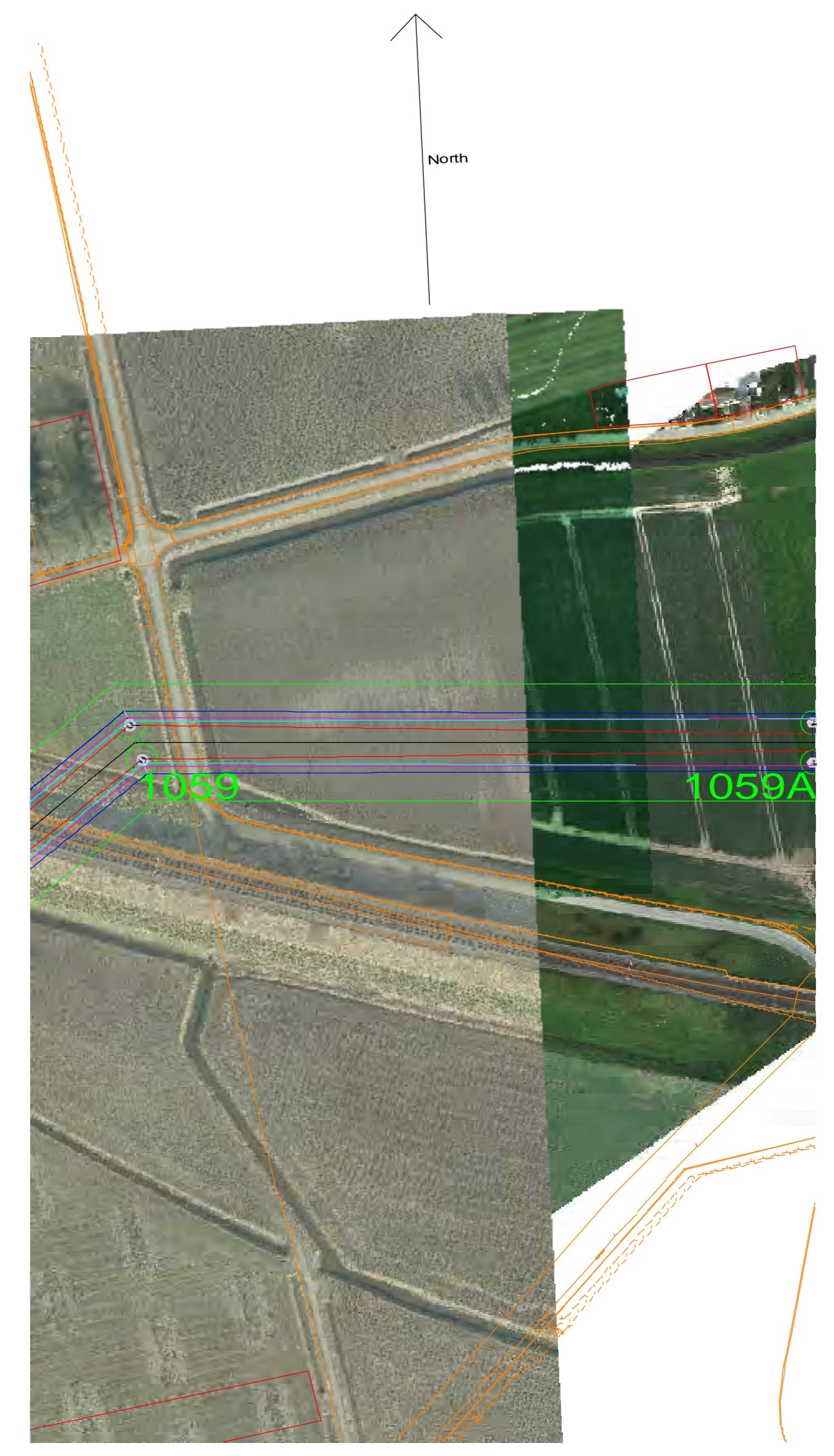
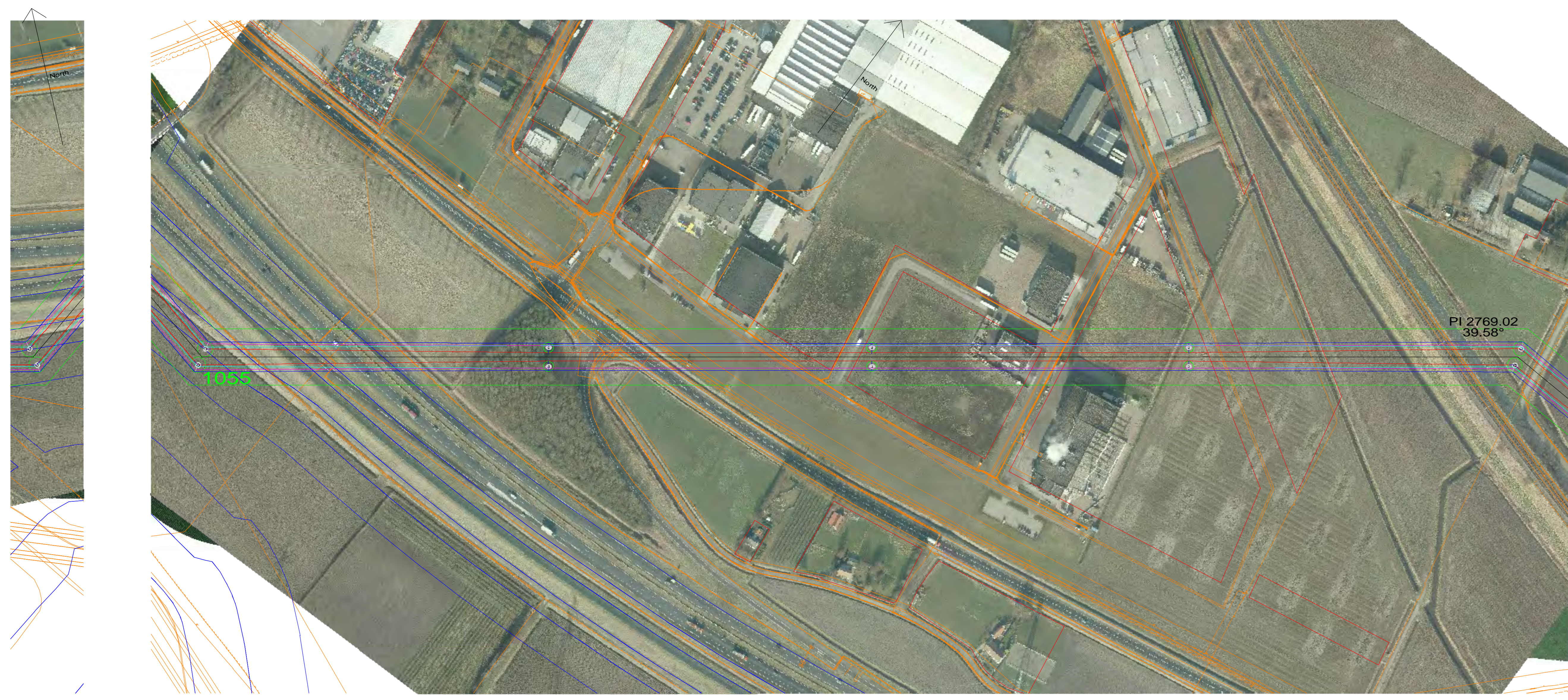
Preliminary Line Profile Drawings
Section DT2 (Structure 1050 - 1104)
Temperature conductor phase at 70°C

Borssele-Tilburg ZW380

Originator: AS
Approver: MvN
Checker: JAW
Date: 12-07-2016

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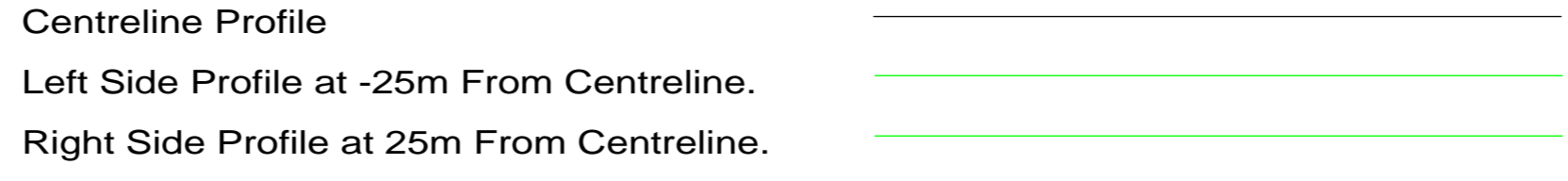
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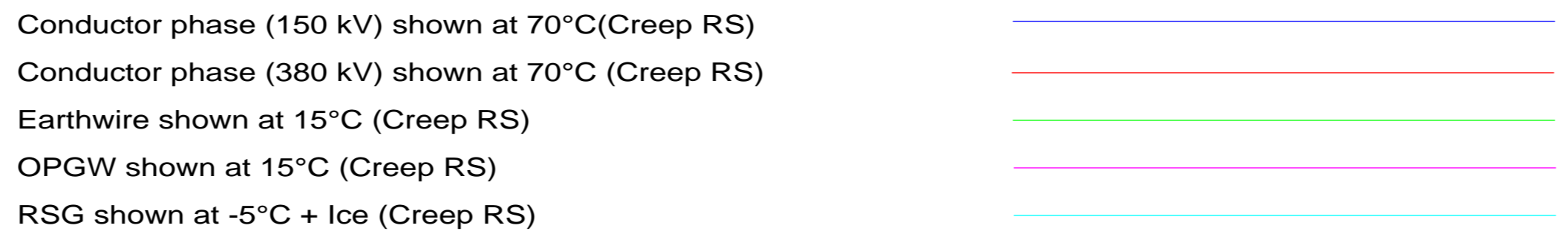
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9. All dimensions are in metres.

Centre Line / Side Profile Key:



Conductor Key:



Note:
- Load RS / Max Sag RS Cable conditions not assessed for these preliminary profile drawings.
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Feature Description	Symbol	380kV-Radial Clearance (m)	150kV-Radial Clearance (m)	0kV-Radial Clearance (m)
Ground	•	10.8	10	8.2
Roads	•	11.8	11	8.2
Railways	•	14	13.2	11.4
Highways	•	12.7	11.9	10.1
Buildings	•	7.7	6.9	5.1
Water	•	>8.3	>8.5	>8.7
Zuid-Beverland Kanaal	•	52	51.2	49.4
Foundation Area	•			
Pole	•			
Buried Services	•			

Rev	Date	Description	By	Chk	App
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P9	12-06-2015	Ninth Issue Preliminary Line Profile Drawings	TG	MV	MvN
P8	19-06-2014	Eighth Issue Preliminary Line Profile Drawings	TG	MV	MvN

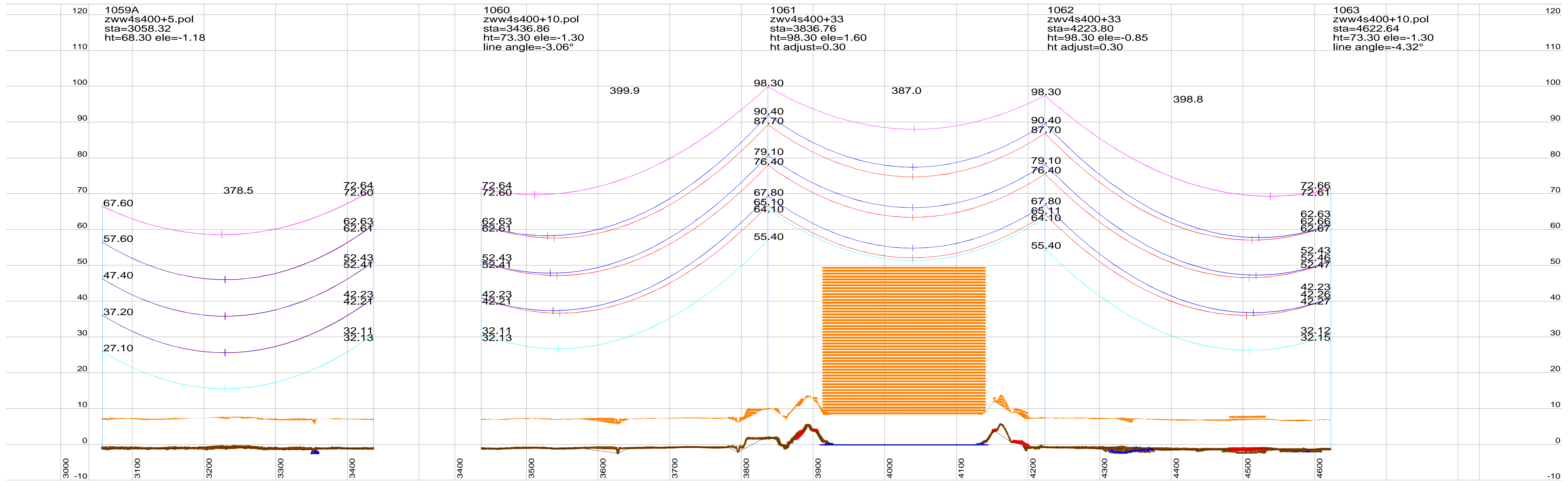
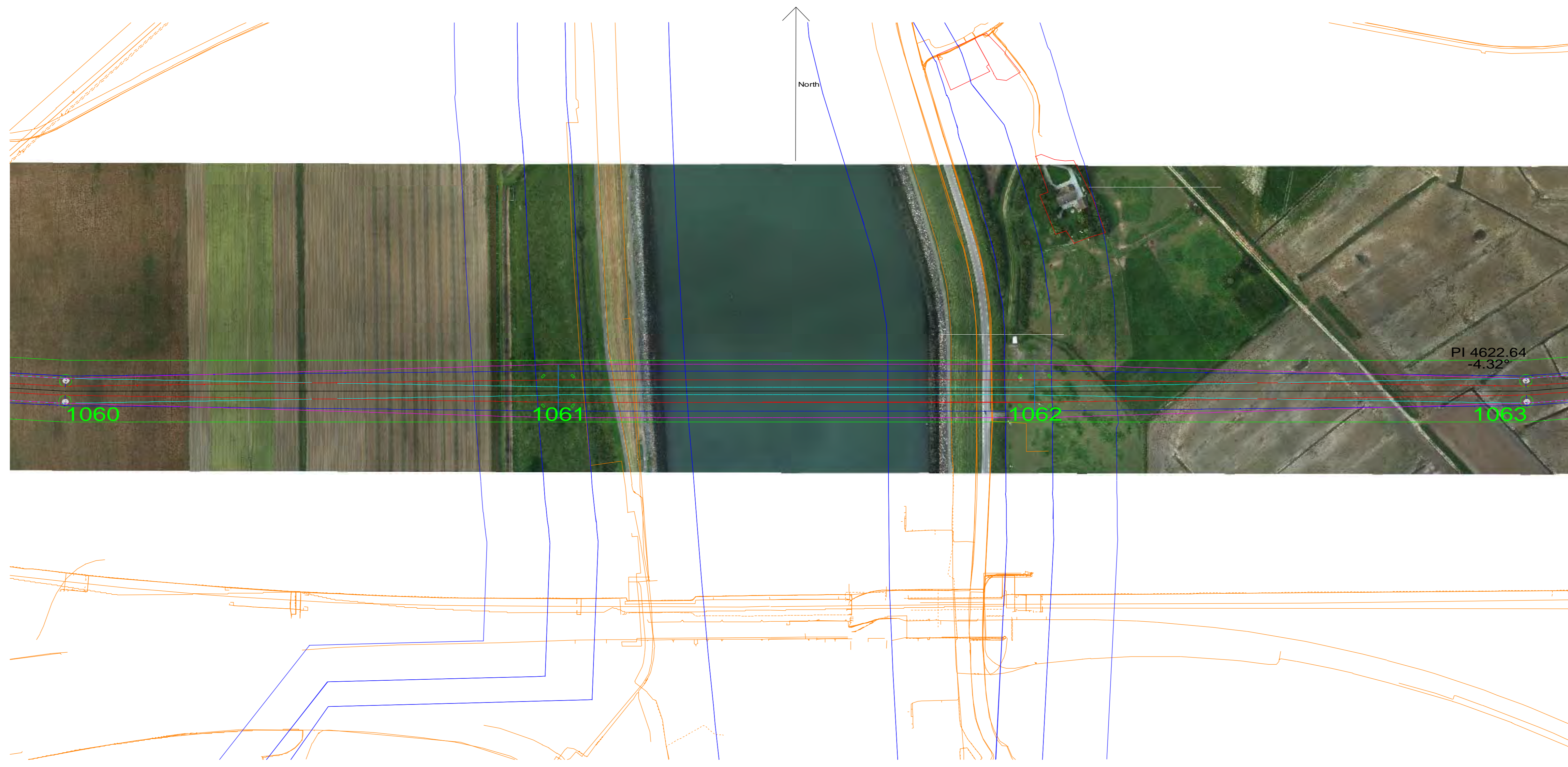
Preliminary Line Profile Drawings
Section DT2 (Structure 1050 - 1104)
Temperature conductor phase at 70°C

Borssele-Tilburg ZW380

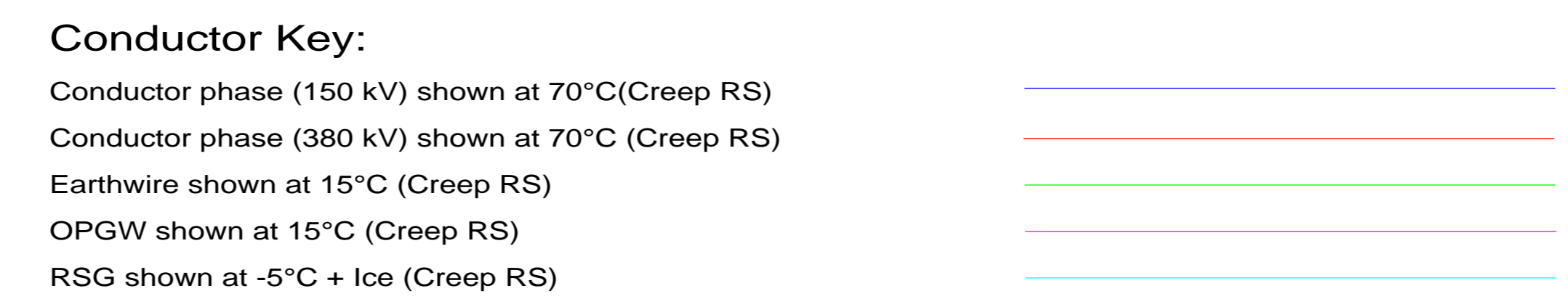
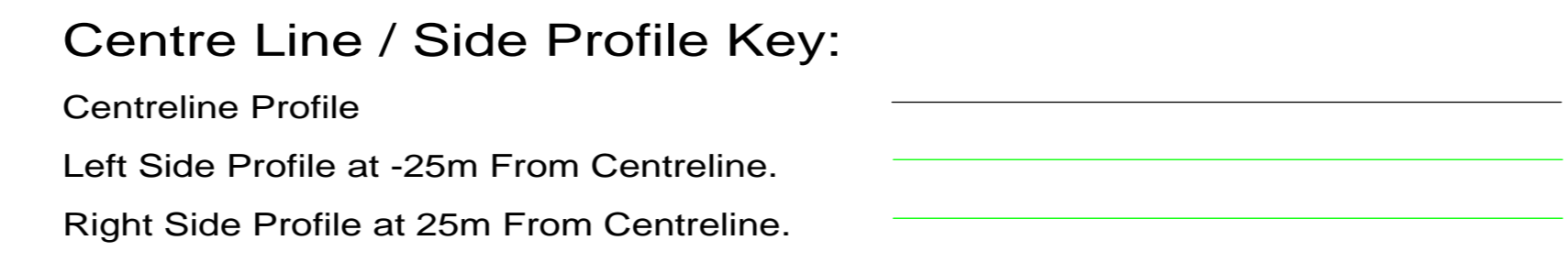
Originator: AS
Approver: MvN
Checker: JAW
Date: 12-07-2016

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 9. All dimensions are in metres.



Note:

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- 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)	150kV-Radial Clearance (m)	0kV-Radial Clearance (m)
Ground	•	10.8	10	8.2
Roads	+	11.8	11	8.2
Railways	×	14	13.2	11.4
Highways	•	12.7	11.8	10.1
Buildings	•	7.7	6.9	5.1
Water	~	>8.3	>8.5	>8.7
Zuid-Beverland Kanaal	~	52	51.2	49.4
Foundation Area	⊗			
Pole	⊙			
Buried Services	—			

Rev	Date	Description	By	Chk	App
P10	06-07-2016	Tenth Issue Preliminary Line Profile Drawings	AS	JAW	MvN
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P8	19-06-2014	Eighth Issue Preliminary Line Profile Drawings	TG	MV	MvN

Preliminary Line Profile Drawings
Section DT2 (Structure 1050 - 1104)
Temperature conductor phase at 70°C

Borssele-Tilburg ZW380

Originator: AS
Approver: MvN
Checker: JAW
Date: 12-07-2016

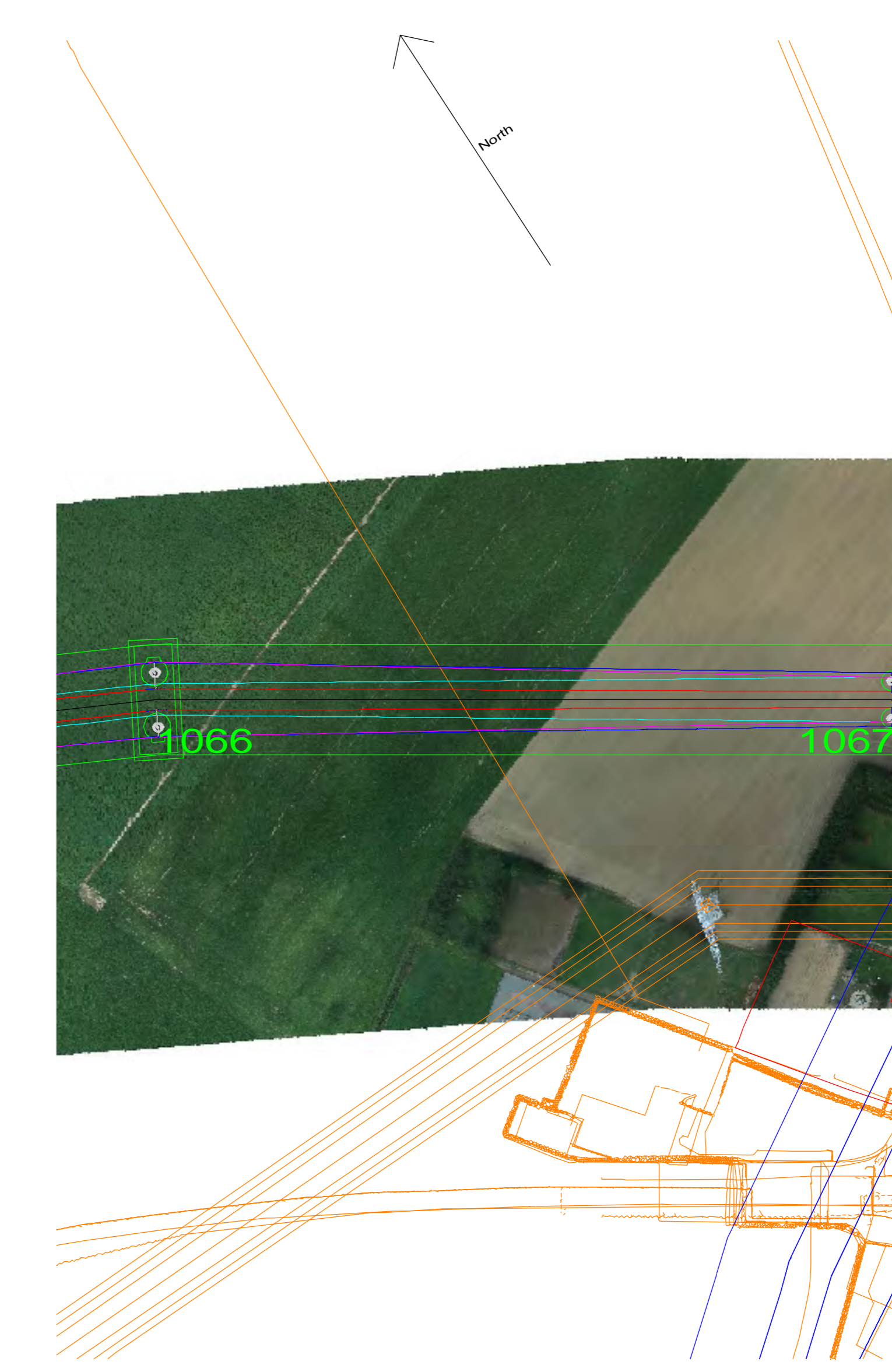
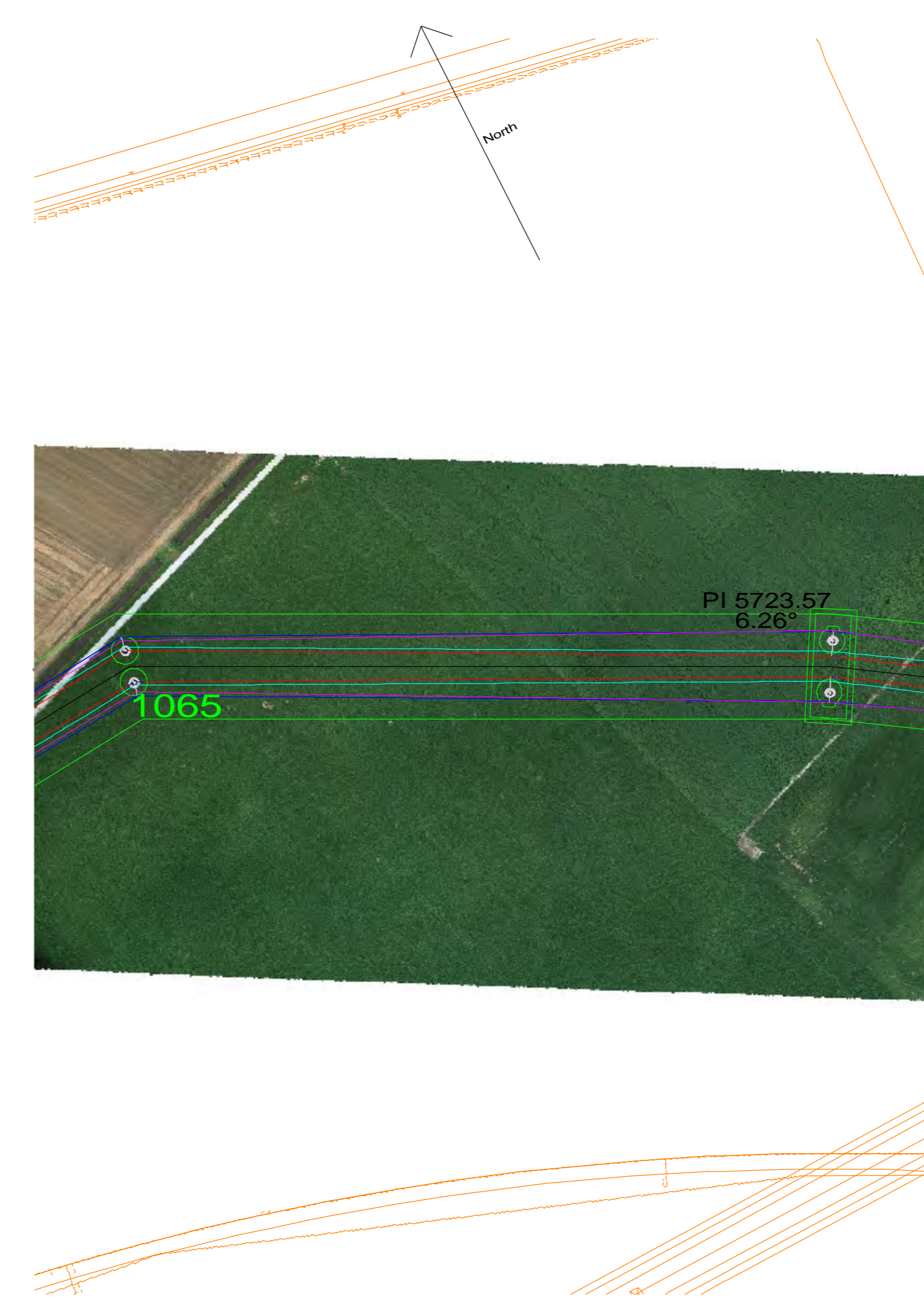
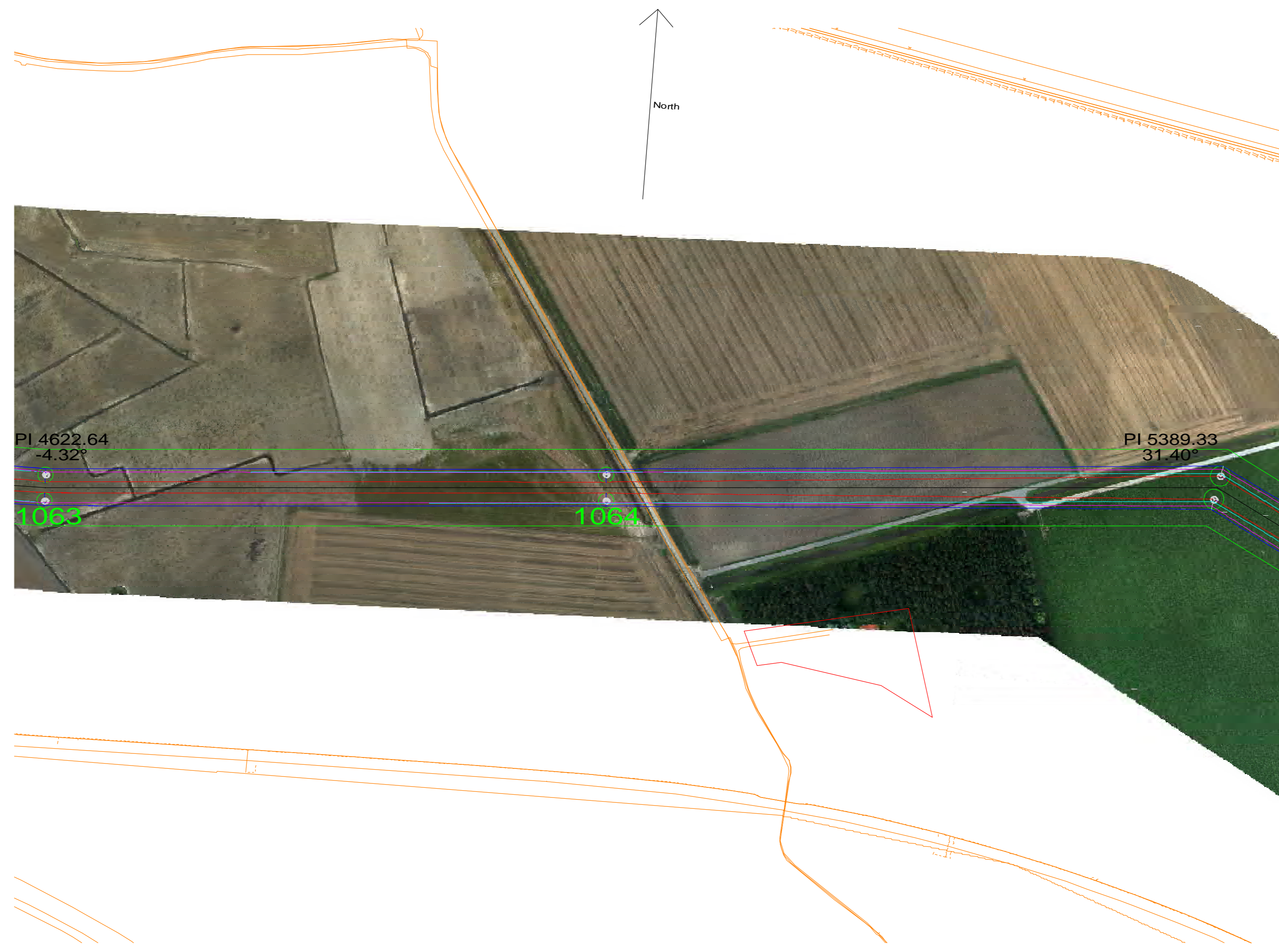
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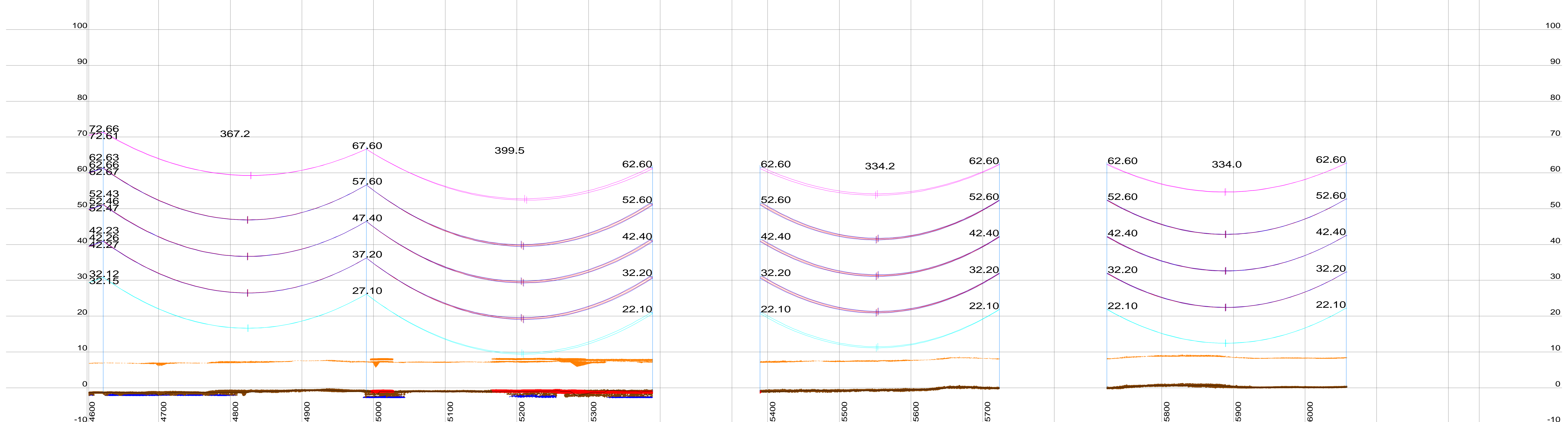
tennet
Utrechtseweg 310
6525 AN Utrecht
Tel: 030-2721111
Fax: 030-2721112

Postbus 718
6500 AR Nijmegen
Tel: 0251-222222
Fax: 0251-222222

Project: **ZW380-DT2-P10**
Page 3/15
Rev P10



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E/W Conductor Shown (New Wintrack line) – Hawk OPGW ACSR
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RSG shown represents the center of the bundle (200mm conductor separation).
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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)
- OPGW 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.
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Feature Description	Symbol	380kV-Radial Clearance (m)	150kV-Radial Clearance (m)	0kV-Radial Clearance (m)
Ground	•	10.8	10	8.2
Roads	+	11.8	11	8.2
Railways	×	14	13.2	11.4
Highways	•	12.7	11.8	10.1
Buildings	•	7.7	6.9	5.1
Water	~	>8.3	>8.5	>8.7
Zuid-Beverland Kanaal	~	52	51.2	49.4
Foundation Area	⊗			
Pole	⊙			
Buried Services	⊖			

Rev	Date	Description	By	Chk	App
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P8	19-08-2014	Eighth Issue Preliminary Line Profile Drawings	TG	MV	MvN

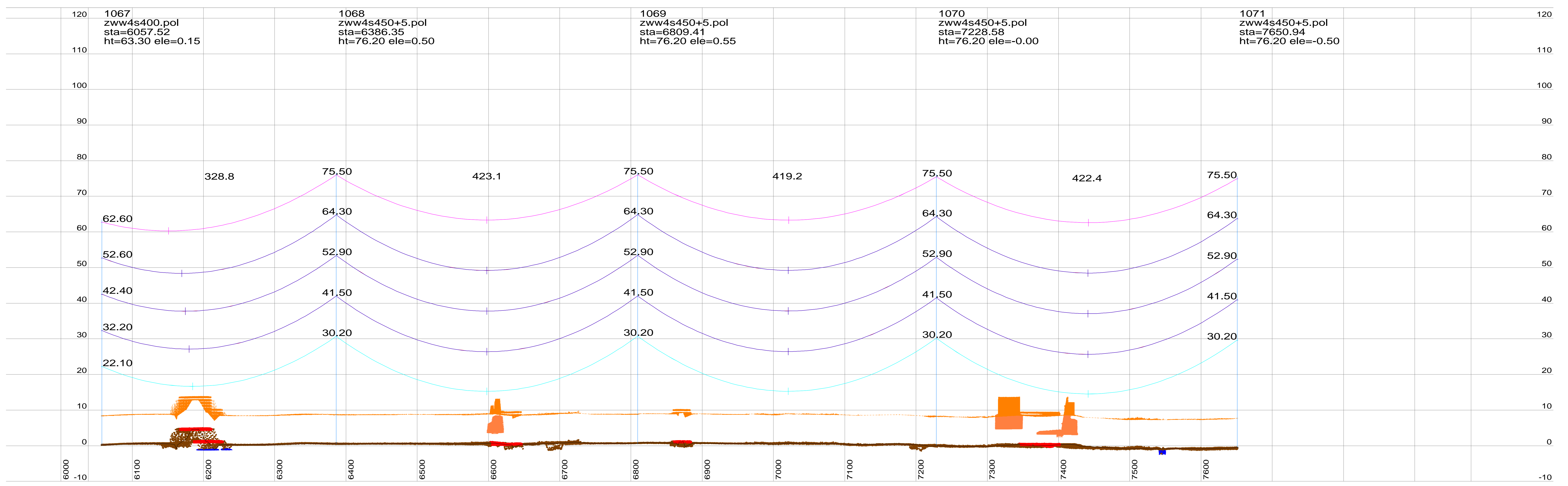
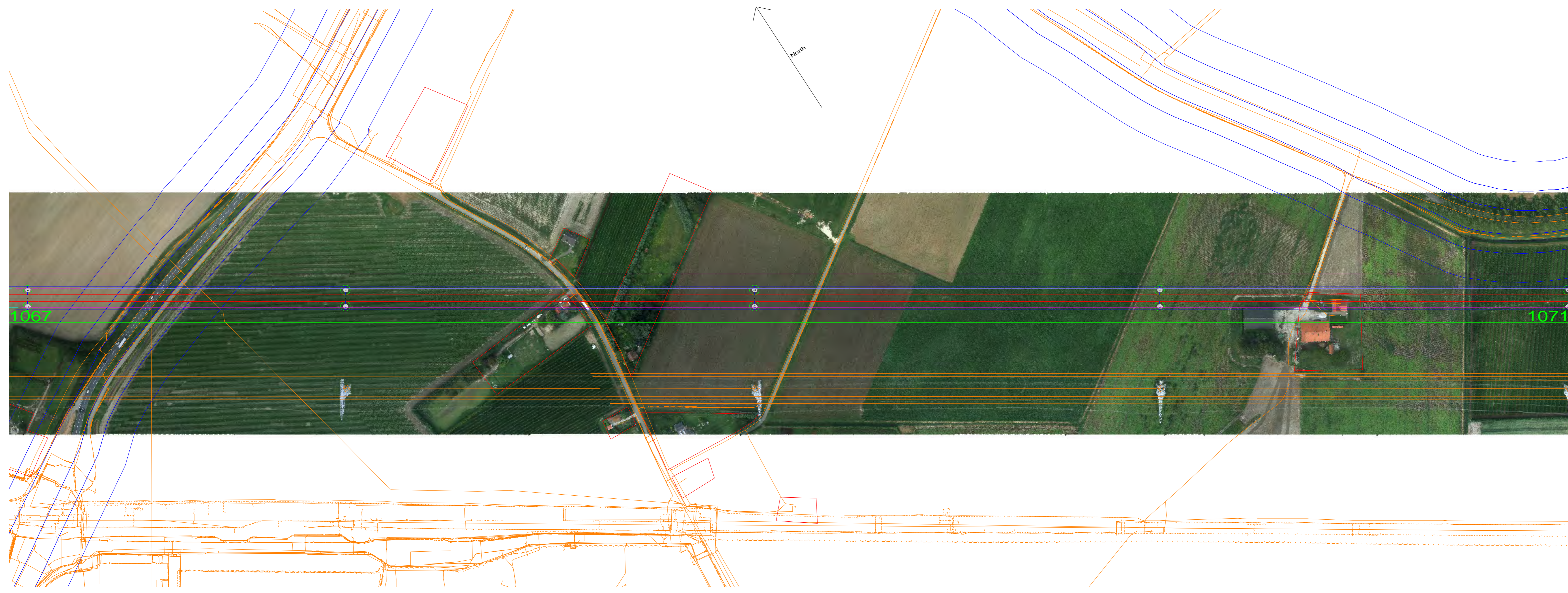
Preliminary Line Profile Drawings
Section DT2 (Structure 1050 - 1104)
Temperature conductor phase at 70°C

Borssele-Tilburg ZW380

Originator: AS
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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)
- OPGW 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°C), please refer to the provided section table.

Feature Description	Symbol	380kV-Radial Clearance (m)	150kV-Radial Clearance (m)	0kV-Radial Clearance (m)
Ground	•	10.8	10	8.2
Roads	+	11.8	11	8.2
Railways	×	14	13.2	11.4
Highways	•	12.7	11.8	10.1
Buildings	□	7.7	6.9	5.1
Water	○	>8.3	>8.5	>8.7
Zuid-Beverland Kanaal	○	52	51.2	49.4
Foundation Area	⊗			
Pole	○			
Buried Services	○			

Rev	Date	Description	By	Chk	App
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P8	19-06-2014	Eighth Issue Preliminary Line Profile Drawings	TG	MV	MvN

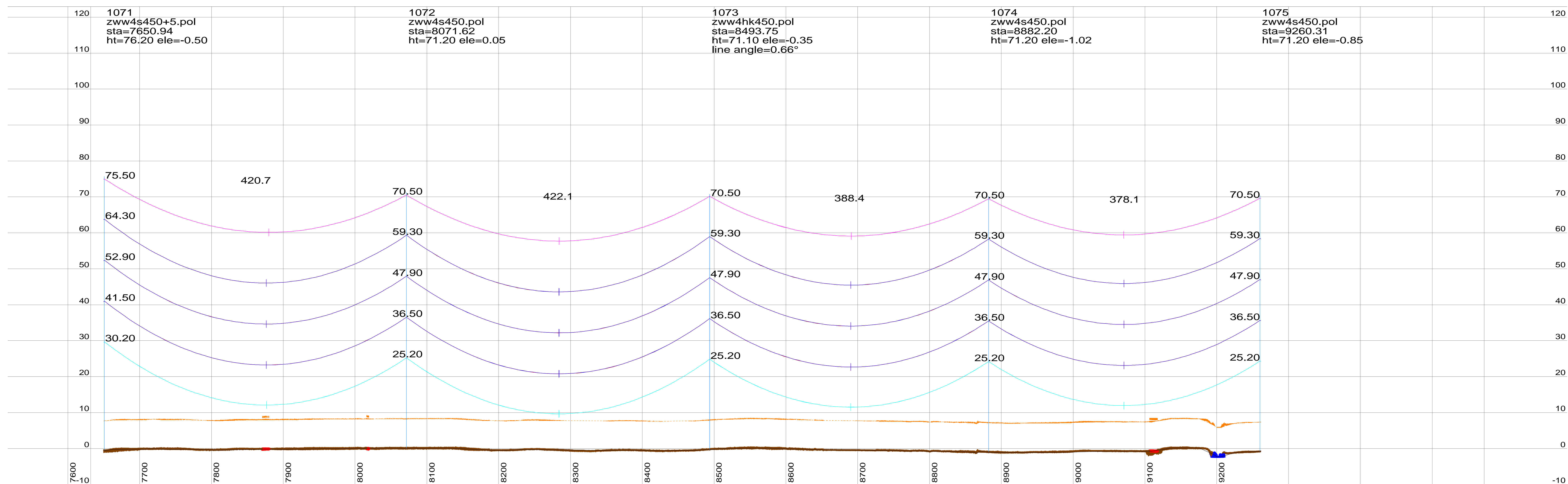
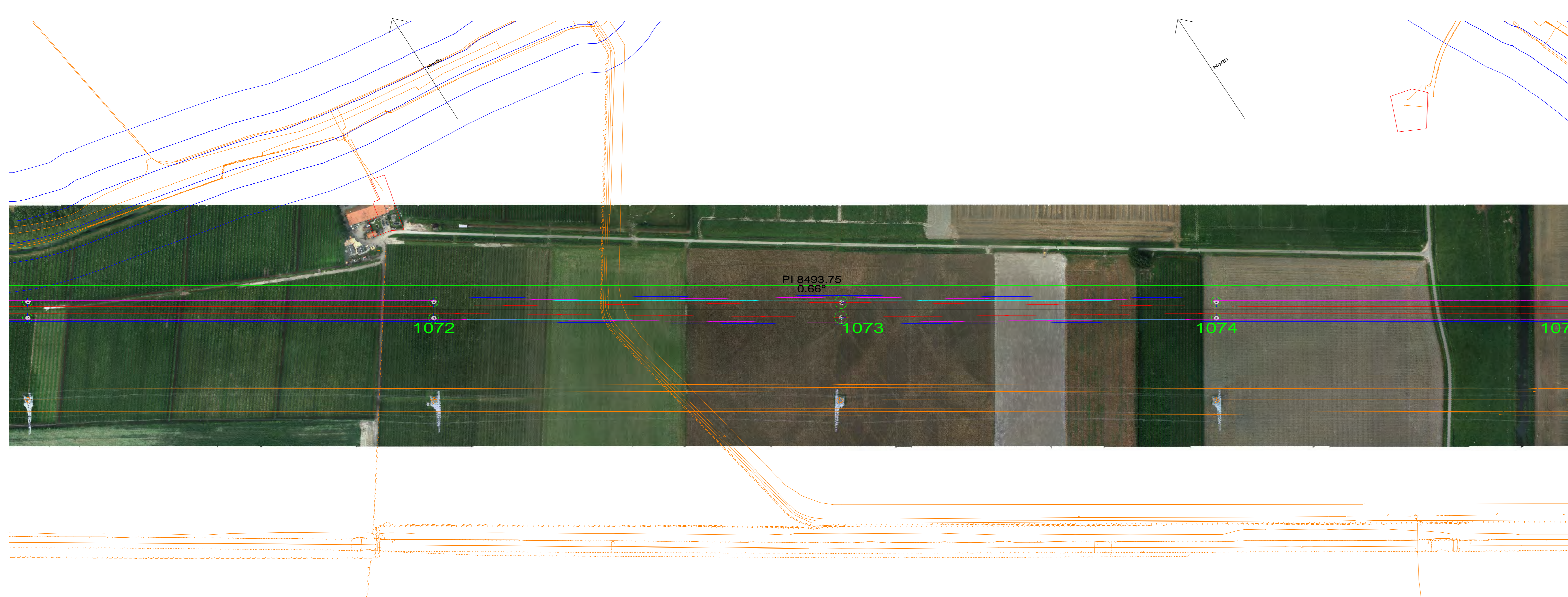
Preliminary Line Profile Drawings
Section DT2 (Structure 1050 - 1104)
Temperature conductor phase at 70°C

Borssele-Tilburg ZW380
Originator: AS
Approver: MvN
Checker: JAW
Date: 12-07-2016

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Project: Borssele-Tilburg ZW380
Drawing Number: ZW380-DT2-P10
Page 5/15
Rev P10



Notes:

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
5. 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).
6. This drawing is produced using PLS-Pole Models (New Wintrack line) based on dimensions from pole drawings
"000.145.11 0254226 Mastenontwerp.dossier 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.
8. Tower Details are shown as Follows:
1105 (Tower Number) ZVW2E400 (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)
- OPGW 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°C), please refer to the provided section table.

Feature Description	Symbol	380kV-Radial Clearance (m)	150kV-Radial Clearance (m)	0kV-Radial Clearance (m)
Ground	•	10.8	10	8.2
Roads	•	11.8	11	8.2
Railways	×	14	13.2	11.4
Highways	•	12.7	11.8	10.1
Buildings	•	7.7	6.9	5.1
Water	•	>8.3	>8.5	>8.7
Zuid-Beverland Kanaal	•	5.2	5.2	4.4
Foundation Area	•			
Pole	•			
Buried Services	•			

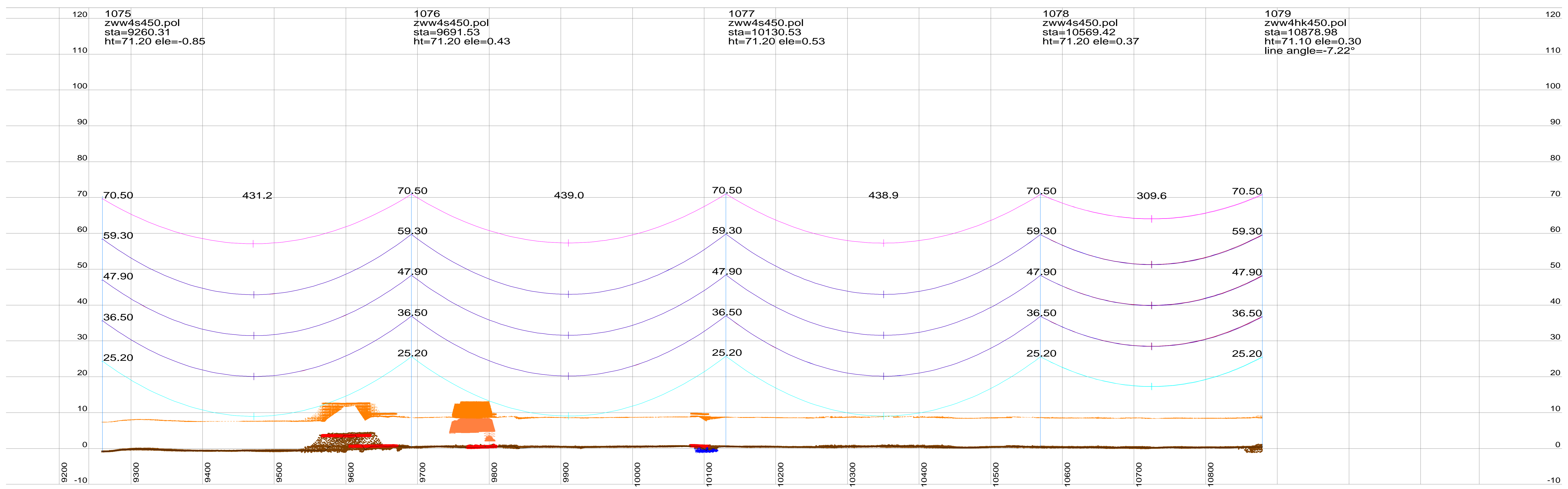
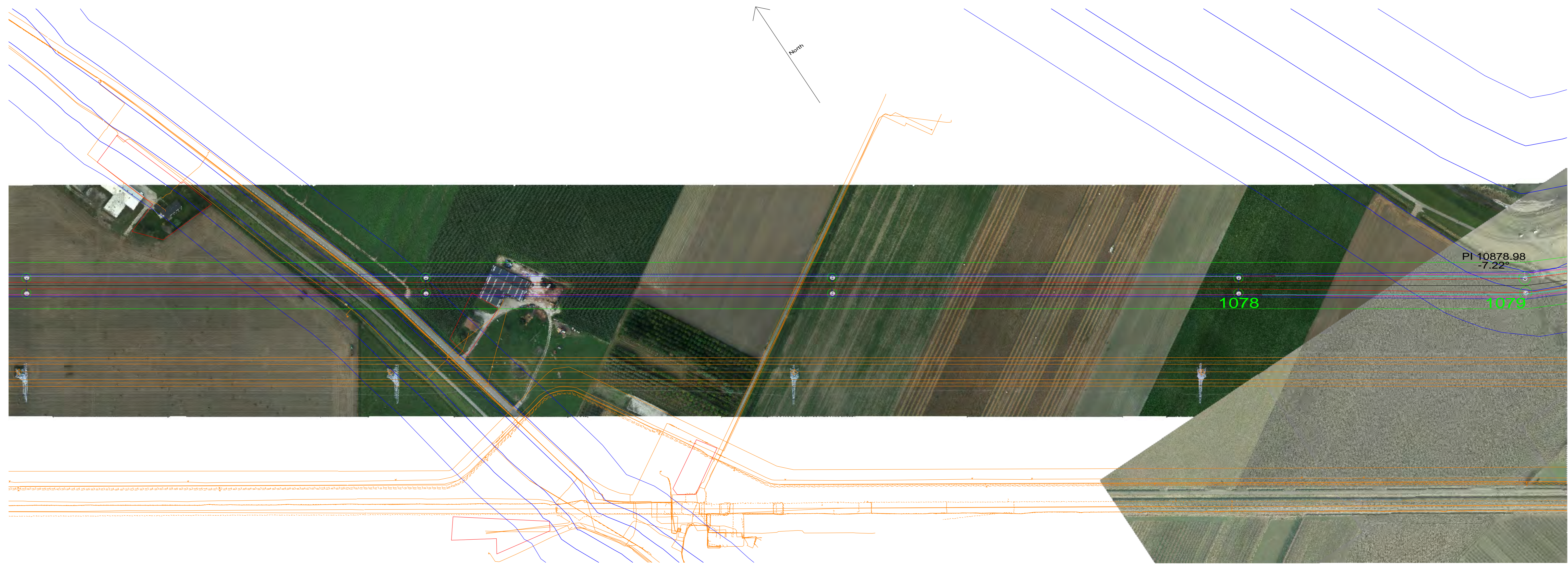
Rev	Date	Description	By	Chk	App
P10	06-07-2016	Tenth Issue Preliminary Line Profile Drawings	AS	JAW	MvN
P9	12-06-2015	Ninth Issue Preliminary Line Profile Drawings	TG	MV	MvN
P8	19-06-2014	Eighth Issue Preliminary Line Profile Drawings	TG	MV	MvN

Preliminary Line Profile Drawings
Section DT2 (Structure 1050 - 1104)
Temperature conductor phase at 70°C

Project: **Borssele-Tilburg ZW380**
Originator: AS
Approver: MvN
Checker: JAW
Date: 12-07-2016

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Scale: 20.0 m Horiz. Scale
4.0 m Vert. Scale
Drawing Number: **ZW380-DT2-P10**
Page 6/15
Rev P10



Notes:

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
5. 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).
6. 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 Tennen on 13-06-2014.
7. Insulator lengths are based on the 380kV and 150kV V-brace drawings provided by Tennen on 11-02-2014.
8. Tower Details are shown as Follows:
1105 (Tower Number) ZWW2E400 (Tower type)
sta=964.07 (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)
- OPGW 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°C), please refer to the provided section table.

Feature Description	Symbol	380kV-Radial Clearance (m)	150kV-Radial Clearance (m)	0kV-Radial Clearance (m)
Ground	•	10.8	10	8.2
Roads	+	11.8	11	8.2
Railways	×	14	13.2	11.4
Highways	•	12.7	11.8	10.1
Buildings	•	7.7	6.9	5.1
Water	~	>8.3	>8.5	>8.7
Zuid-Beverland Kanaal	~	52	51.2	49.4
Foundation Area	⊗			
Pole	⊙			
Buried Services	⊖			

Rev	Date	Description	By	Chk	App
P10	06-07-2016	Tenth Issue Preliminary Line Profile Drawings	AS	JAW	MvN
P9	12-06-2015	Ninth Issue Preliminary Line Profile Drawings	TG	MV	MvN
P8	19-06-2014	Eighth Issue Preliminary Line Profile Drawings	TG	MV	MvN

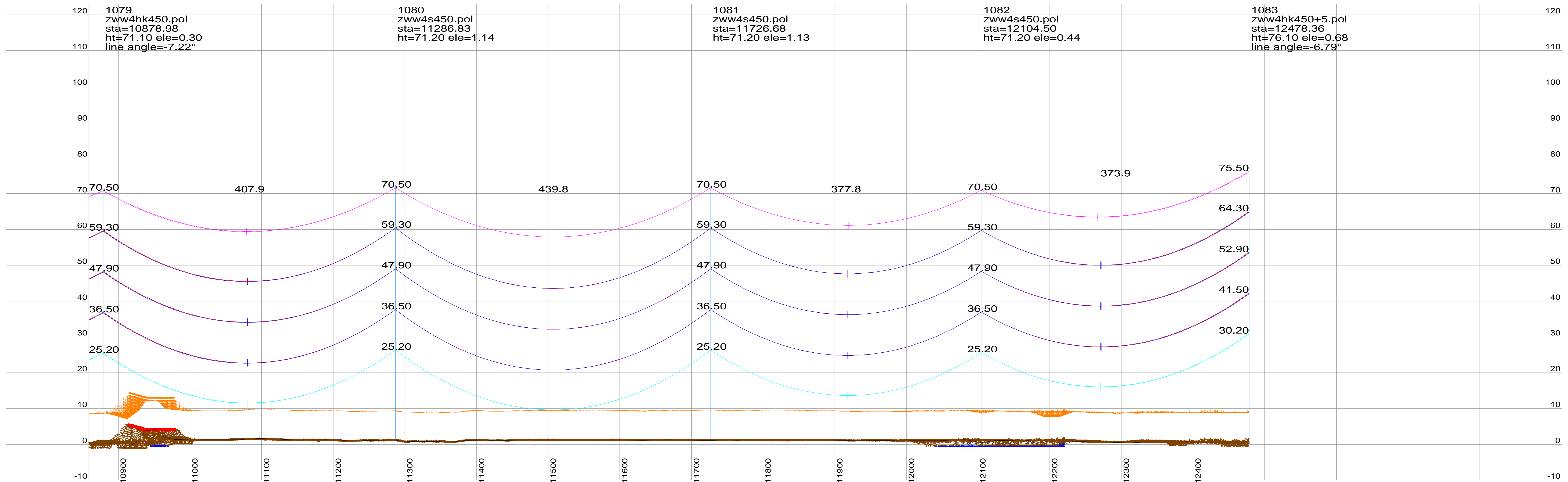
Drawing Title: Preliminary Line Profile Drawings
Section DT2 (Structure 1050 - 1104)
Temperature conductor phase at 70°C

Project: Borssele-Tilburg ZW380

Originator: AS
Approver: MvN
Checker: JAW
Date: 12-07-2016

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Notes:

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
5. 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).
6. This drawing is produced using PLS-Pole Models (New Wintrack line) based on dimensions from pole drawings
"000.145.11 0254226 Mastenontwerp dossier 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.
8. 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)
- OPGW 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°C), please refer to the provided section table.

Feature Description	Symbol	380kV-Radial Clearance (m)	150kV-Radial Clearance (m)	0kV-Radial Clearance (m)
Ground	•	10.8	10	8.2
Roads	+	11.8	11	8.2
Railways	×	14	13.2	11.4
Highways	•	12.7	11.8	10.1
Buildings	•	7.7	6.9	5.1
Water	•	>8.3	>8.5	>8.7
Zuid-Beverland Kanaal	•	5.2	5.2	4.4
Foundation Area	•			
Pole	•			
Buried Services	•			

Rev	Date	Description	By	Chk	App
P10	06-07-2016	Tenth Issue Preliminary Line Profile Drawings	AS	JAW	MvN
P9	12-08-2015	Ninth Issue Preliminary Line Profile Drawings	TG	MV	MvN
P8	19-08-2014	Eighth Issue Preliminary Line Profile Drawings	TG	MV	MvN

Preliminary Line Profile Drawings
Section DT2 (Structure 1050 - 1104)
Temperature conductor phase at 70°C

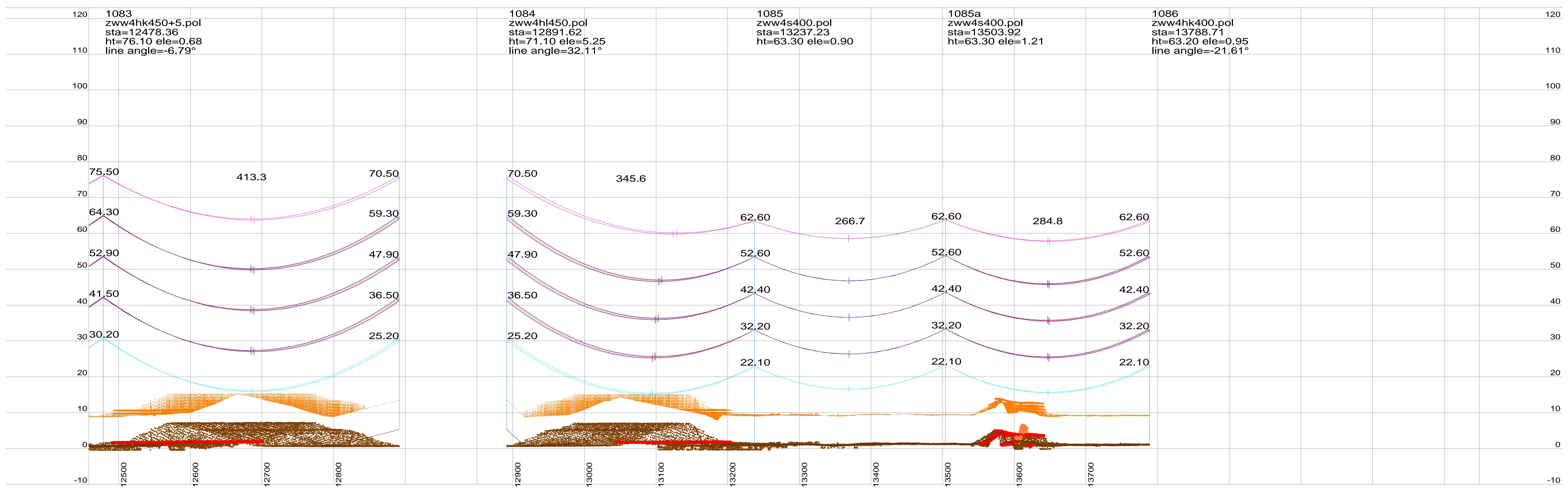
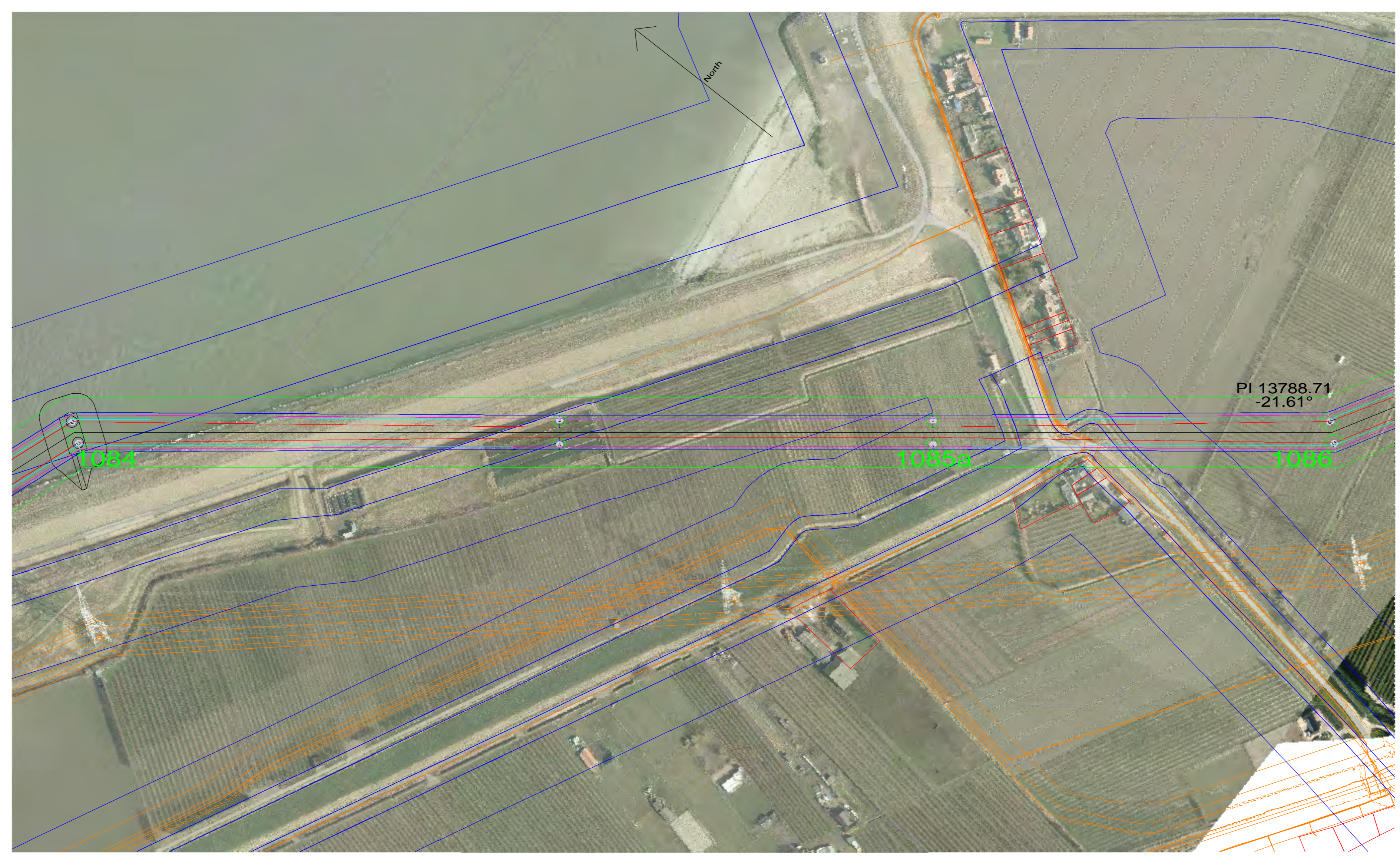
Borssele-Tilburg ZW380
Originator: AS
Approver: MvN
Checker: JAW
Date: 12-07-2016

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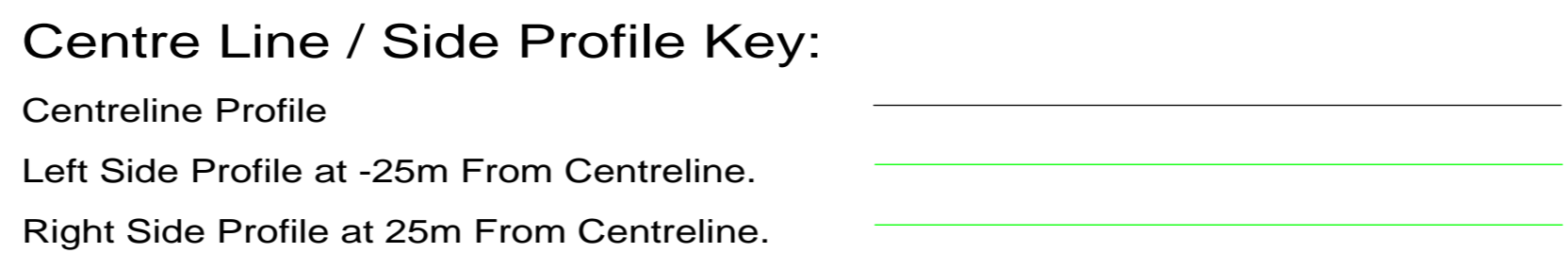
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Drawing Number: **ZW380-DT2-P10**
Page 8/15
Rev P10



- Notes:**
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
 5. 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).
 6. This drawing is produced using PLS-Pole Models (New Wintrack line) based on dimensions from pole drawings
"000.145.11 0254226 Mastenontwerp dossier 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.
 8. 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.



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°C), please refer to the provided section table.

Feature Description	Symbol	380kV-Radial Clearance (m)	150kV-Radial Clearance (m)	0kV-Radial Clearance (m)
Ground	•	10.8	10	8.2
Roads	•	11.8	11	8.2
Railways	•	14	13.2	11.4
Highways	•	12.7	11.8	10.1
Buildings	•	7.7	6.9	5.1
Water	•	>8.3	>8.5	>8.7
Zuid-Beverland Kanal	•	52	51.2	49.4
Foundation Area	•			
Pole	•			
Buried Services	•			

Rev	Date	Description	By	Chk	App
P10	06-07-2016	Tenth Issue Preliminary Line Profile Drawings	AS	JAW	MvN
P9	12-06-2015	Ninth Issue Preliminary Line Profile Drawings	TG	MV	MvN
P8	19-06-2014	Eighth Issue Preliminary Line Profile Drawings	TG	MV	MvN

Preliminary Line Profile Drawings
Section DT2 (Structure 1050 - 1104)
Temperature conductor phase at 70°C

Borssele-Tilburg ZW380

Originator: AS
Approver: MvN
Checker: JAW
Date: 12-07-2016

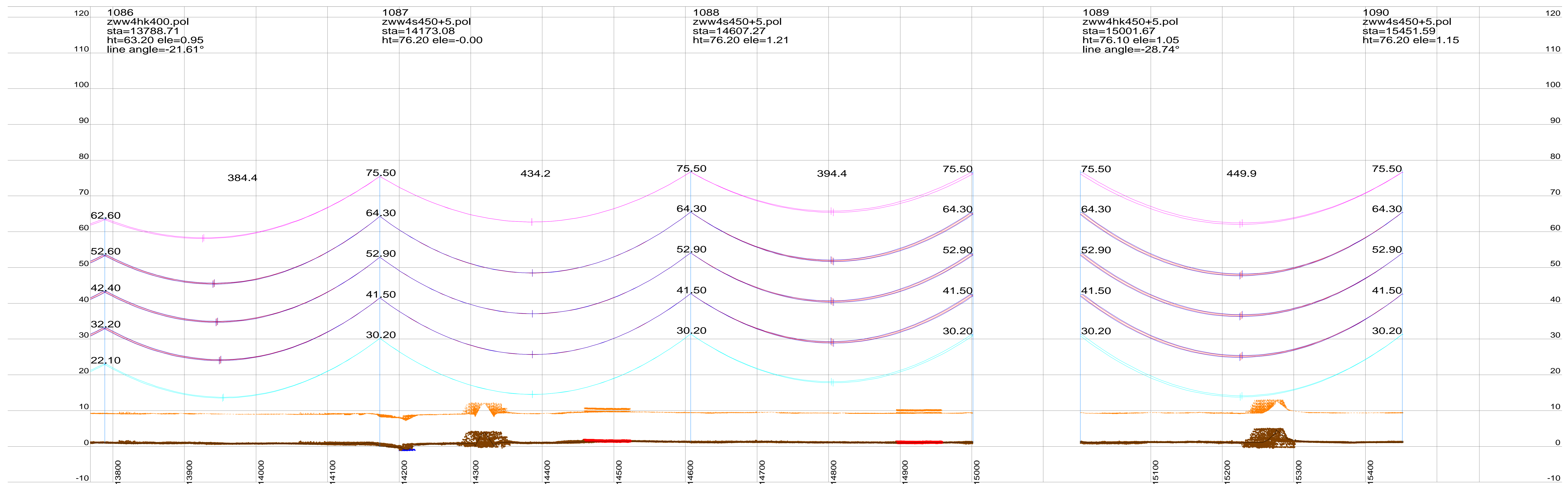
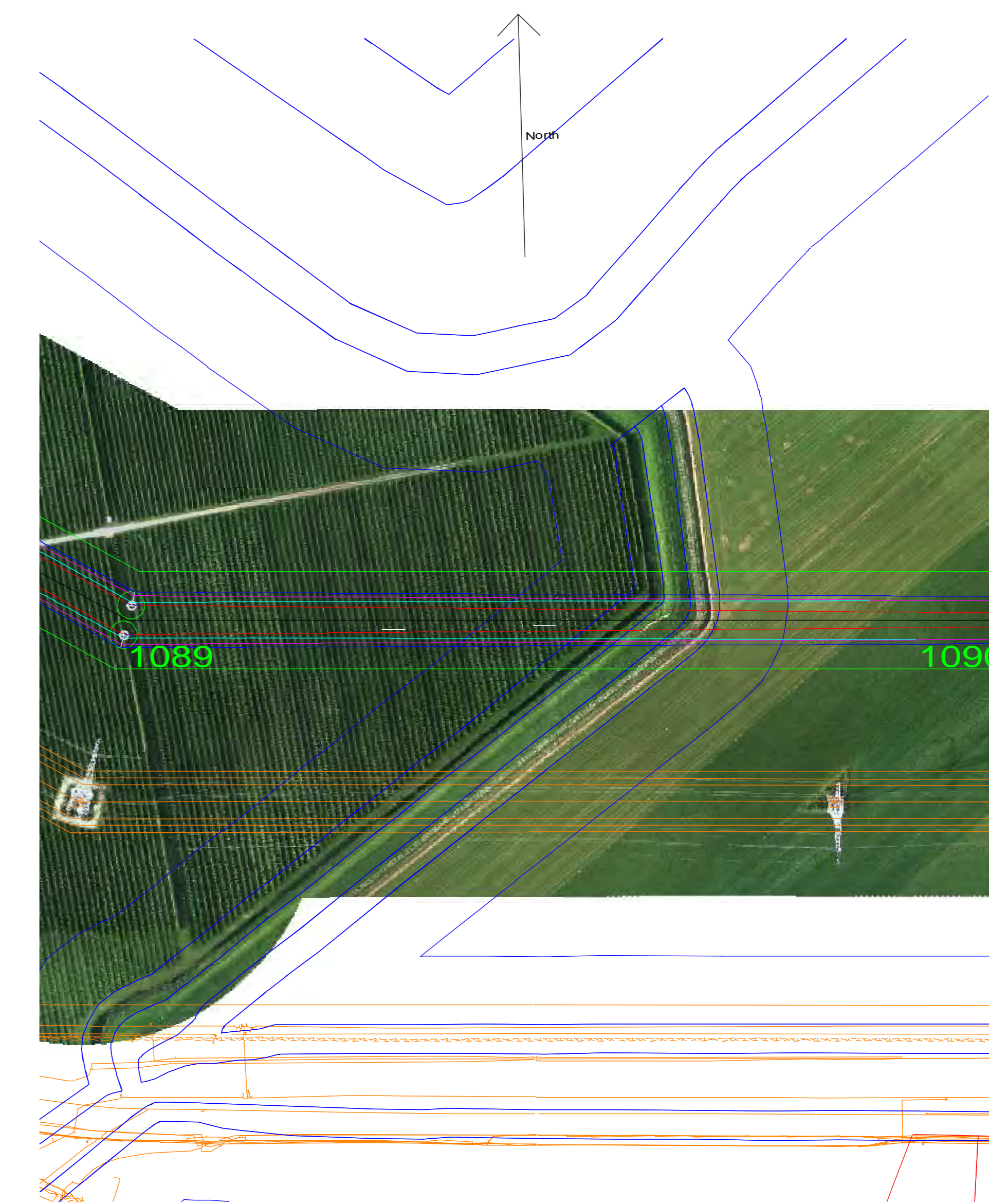
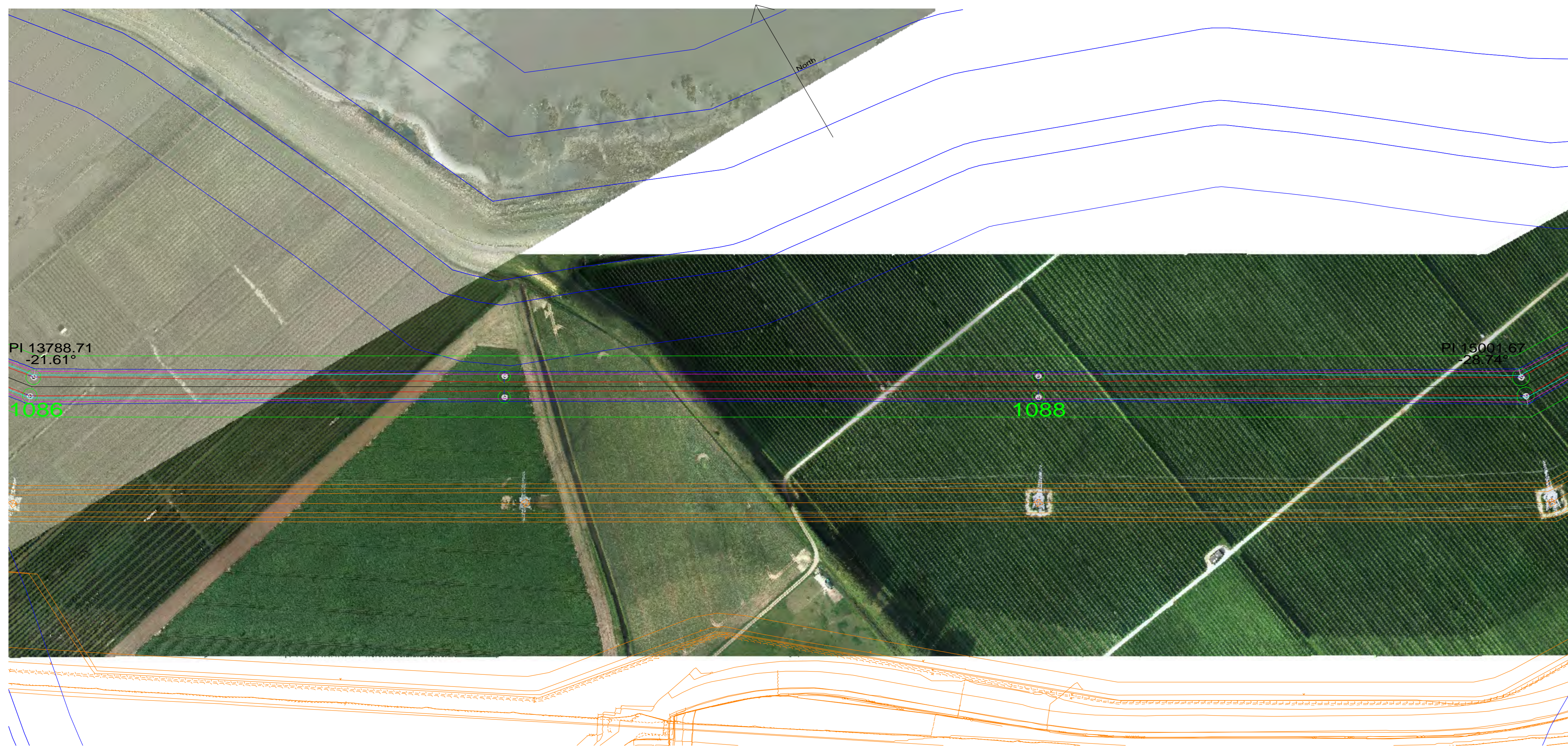
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Project: **ZW380-DT2-P10**
Page 9/15
Rev P10



Notes:

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
5. Phase Conductor shown represents the middle of the bundel (500mm conductor separation new Wintrack line).
RSG shown represents the center of the bundel (200mm conductor separation).
6. This drawing is produced using PLS-Pole Models (New Wintrack line) based on dimensions from pole drawings
"000.145.11 0254226 Mastenontwerp.dossier 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.
8. 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)
- OPGW 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°C), please refer to the provided section table.

Feature Description	Symbol	380kV-Radial Clearance (m)	150kV-Radial Clearance (m)	0kV-Radial Clearance (m)
Ground	•	10.8	10	8.2
Roads	+	11.8	11	8.2
Railways	X	14	13.2	11.4
Highways	•	12.7	11.8	10.1
Buildings	•	7.7	6.9	5.1
Water	•	>8.3	>8.5	>8.7
Zuid-Beverland Kanaal	•	5.2	5.2	4.4
Foundation Area	•			
Pole	•			
Buried Services	•			

Rev	Date	Description	By	Chk	App
P10	06-07-2016	Tenth Issue Preliminary Line Profile Drawings	AS	JAW	MvN
P9	12-06-2015	Ninth Issue Preliminary Line Profile Drawings	TG	MV	MvN
P8	19-08-2014	Eighth Issue Preliminary Line Profile Drawings	TG	MV	MvN

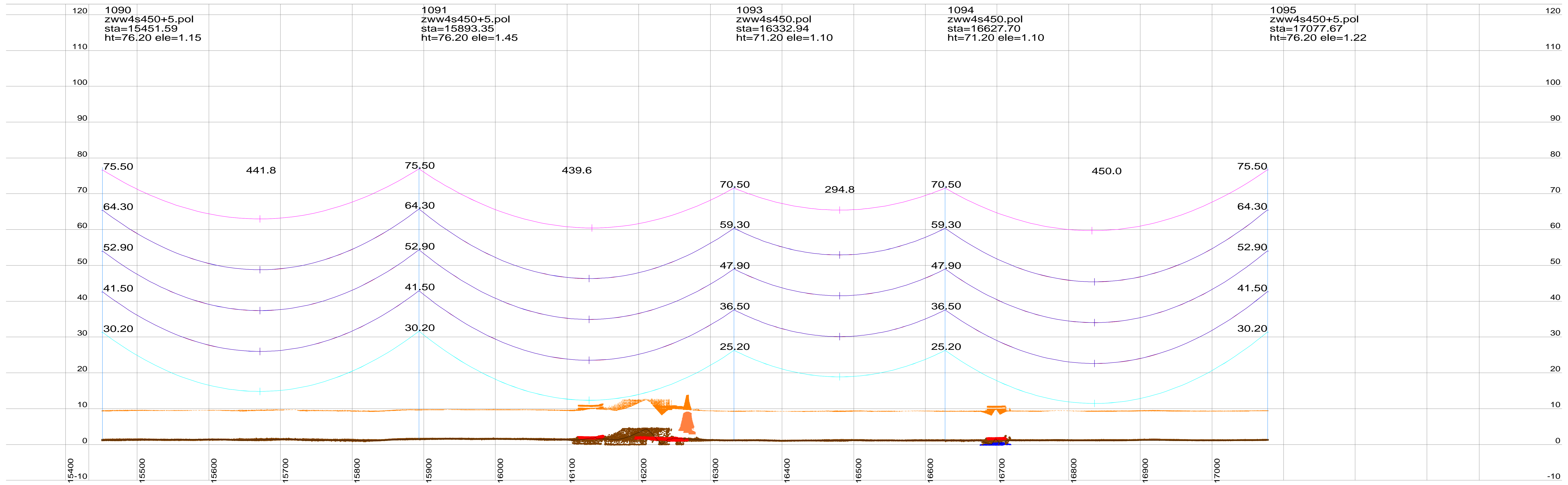
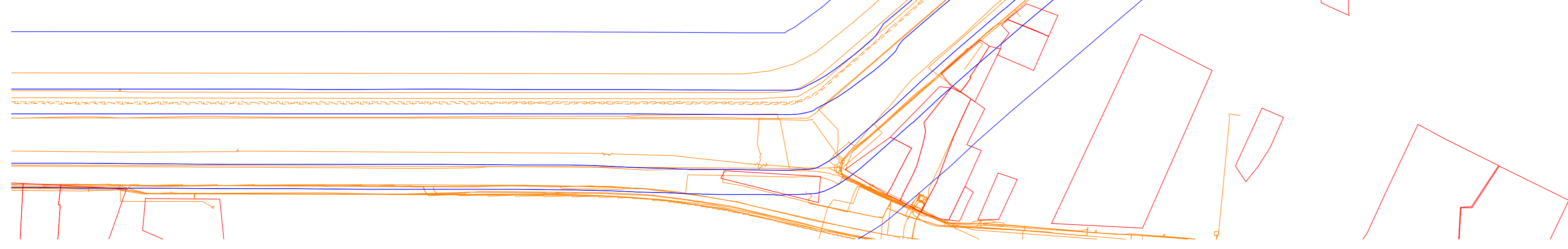
Preliminary Line Profile Drawings
Section DT2 (Structure 1050 - 1104)
Temperature conductor phase at 70°C

Project: **Borssele-Tilburg ZW380**
Originator: AS
Approver: MvN
Checker: JAW
Date: 12-07-2016

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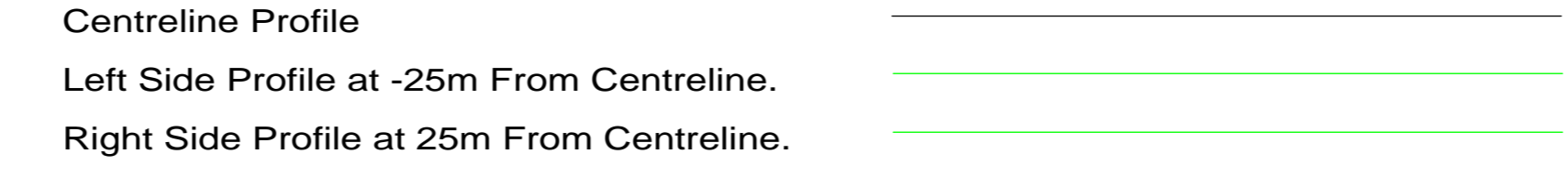
Project: P10
Drawing Number: **ZW380-DT2-P10**
Page 10/15
Rev P10



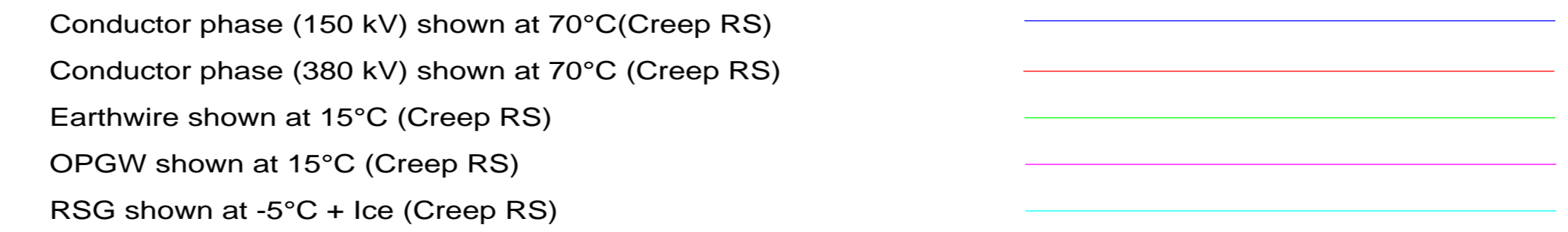
Notes:

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
5. 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).
6. This drawing is produced using PLS-Pole Models (New Wintrack line) based on dimensions from pole drawings
"000.145.11 0254226 Mastenontwerp.dossier 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.
8. 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:



Conductor Key:



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°C), please refer to the provided section table.

Feature Description	Symbol	380kV-Radial Clearance (m)	150kV-Radial Clearance (m)	0kV-Radial Clearance (m)
Ground	•	10.8	10	8.2
Roads	+	11.8	11	8.2
Railways	×	14	13.2	11.4
Highways	•	12.7	11.8	10.1
Buildings	•	7.7	6.9	5.1
Water	~	>8.3	>8.5	>8.7
Zuid-Beverland Kanaal	~	5.2	5.2	4.4
Foundation Area	⊗			
Pole	⊙			
Buried Services	⊖			

Rev	Date	Description	By	Chk	App
P10	06-07-2016	Tenth Issue Preliminary Line Profile Drawings	AS	JAW	MvN
P9	12-06-2015	Ninth Issue Preliminary Line Profile Drawings	TG	MV	MvN
P8	19-06-2014	Eighth Issue Preliminary Line Profile Drawings	TG	MV	MvN

Preliminary Line Profile Drawings
Section DT2 (Structure 1050 - 1104)
Temperature conductor phase at 70°C

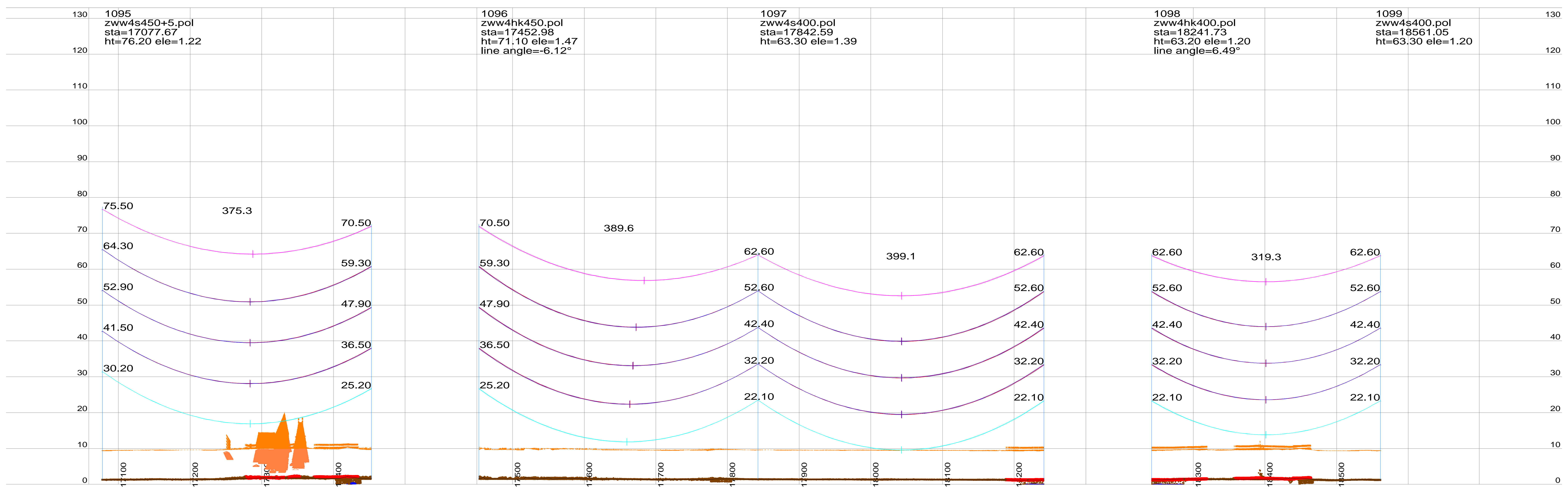
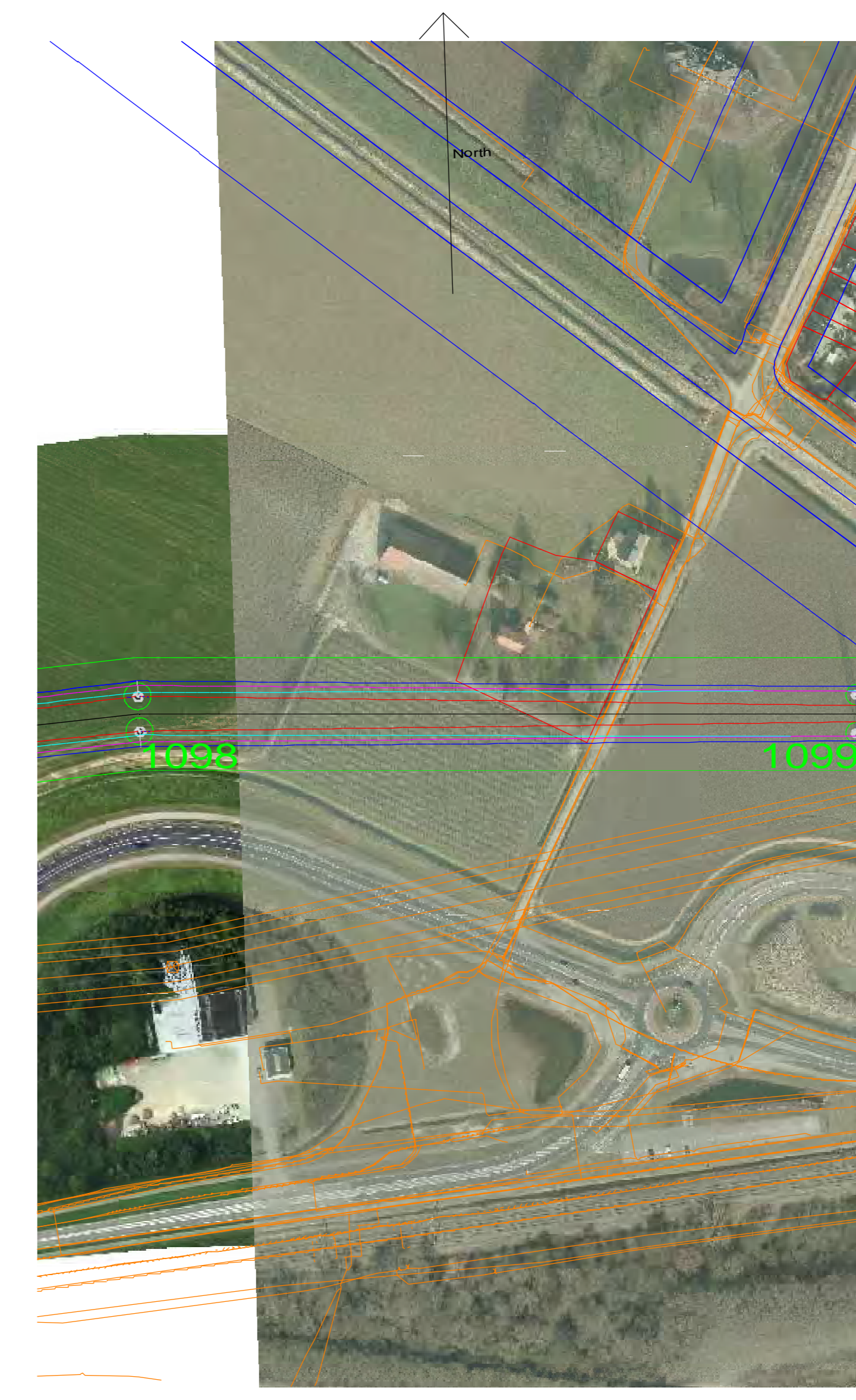
Borssele-Tilburg ZW380
Originator: AS
Approver: MvN
Checker: JAW
Date: 12-07-2016

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Tel: 0475-381111
Fax: 0475-381112

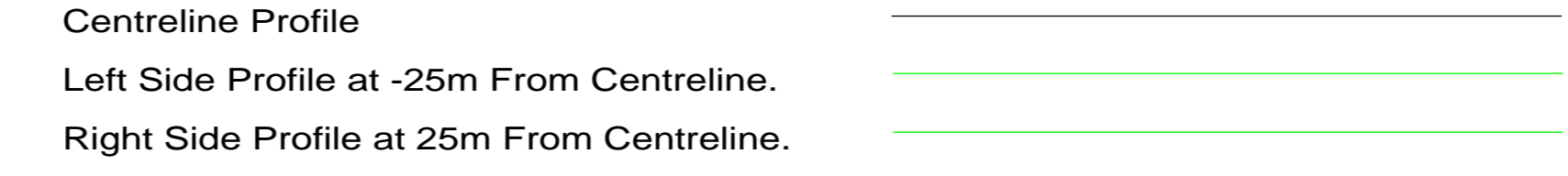
Project: **ZW380-DT2-P10**
Drawing Number: **ZW380-DT2-P10**
Page 11/15
Rev P10



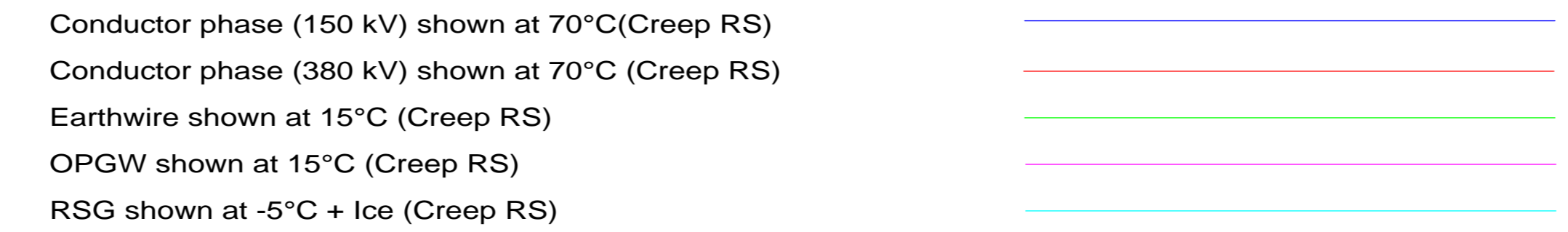
Notes:

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).
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1105 (Tower Number) ZVW2E400 (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:



Conductor Key:



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°C), please refer to the provided section table.

Feature Description	Symbol	380kV-Radial Clearance (m)	150kV-Radial Clearance (m)	0kV-Radial Clearance (m)
Ground	•	10.8	10	8.2
Roads	+	11.8	11	8.2
Railways	×	14	13.2	11.4
Highways	•	12.7	11.9	10.1
Buildings	•	7.7	6.9	5.1
Water	~	>8.3	>8.5	>8.7
Zuid-Beverland Kanaal	~	52	51.2	49.4
Foundation Area				
Pole				
Buried Services				

Rev	Date	Description	By	Chk	App
P10	06-07-2016	Tenth Issue Preliminary Line Profile Drawings	AS	JAW	MvN
P9	12-06-2015	Ninth Issue Preliminary Line Profile Drawings	TG	MV	MvN
P8	19-08-2014	Eighth Issue Preliminary Line Profile Drawings	TG	MV	MvN

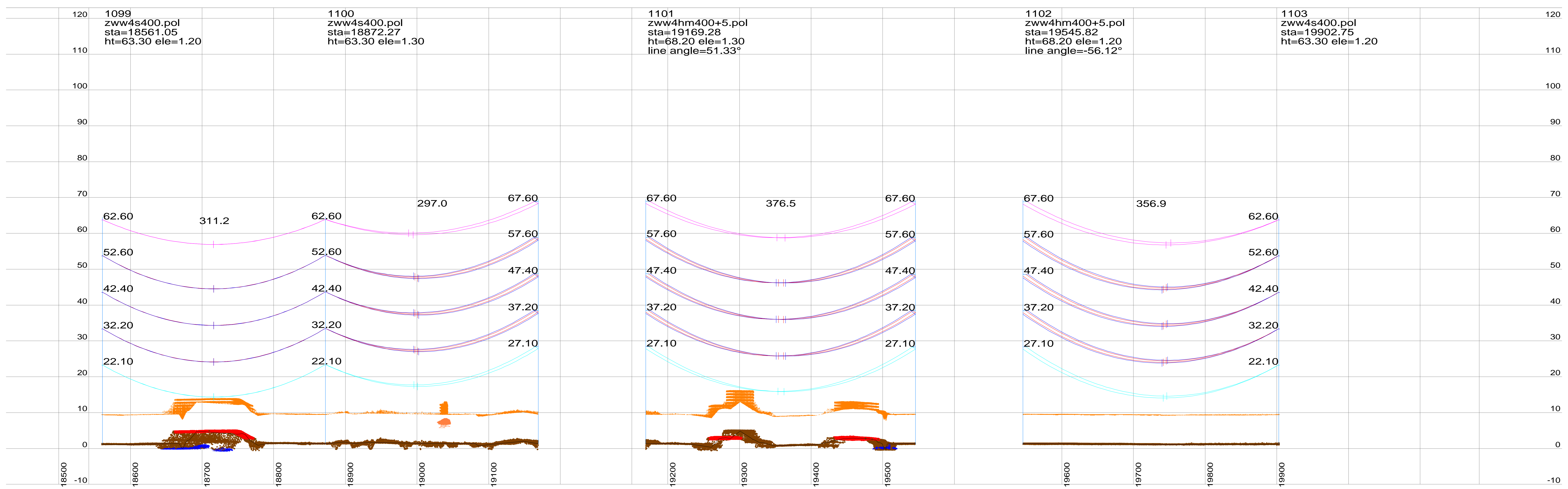
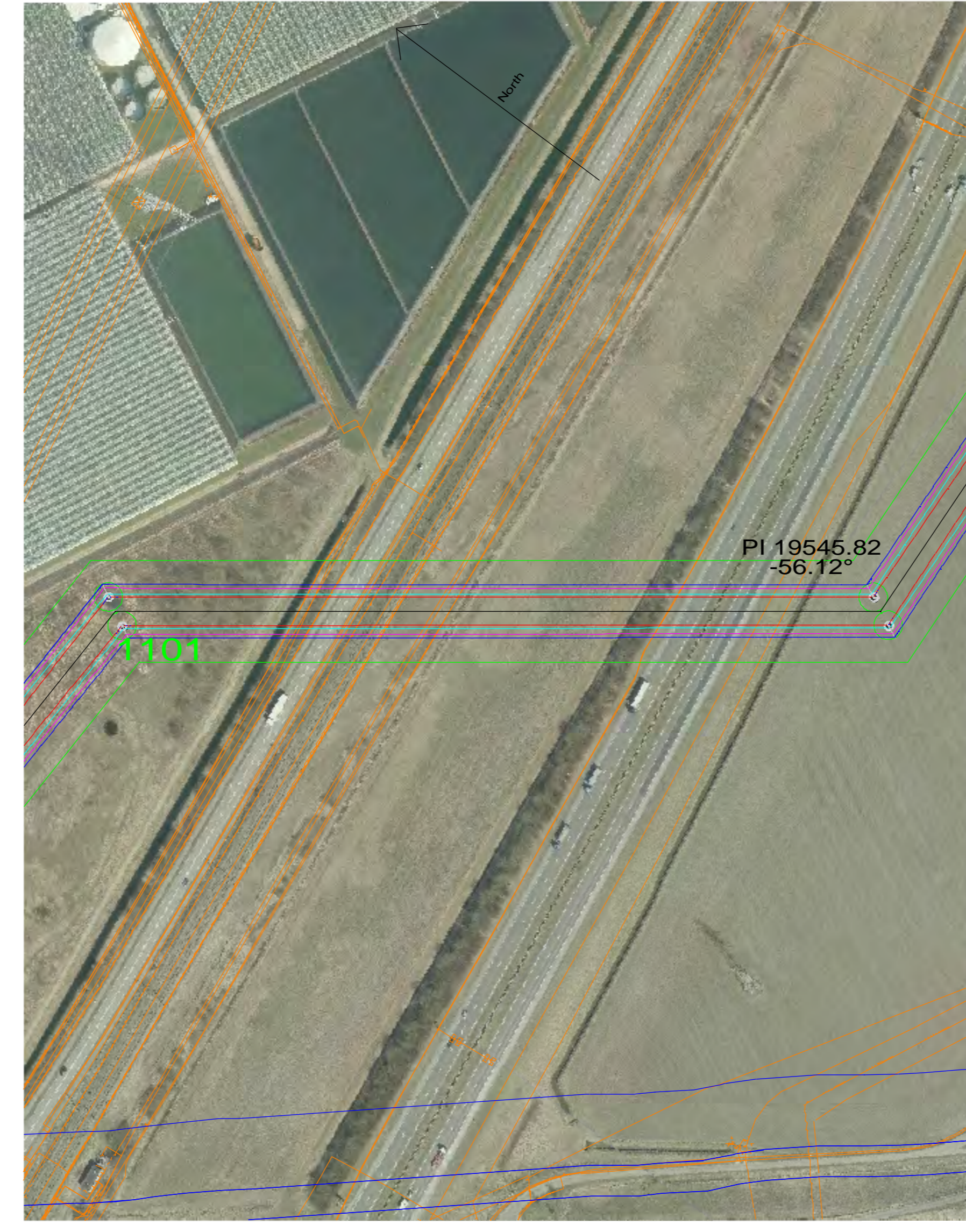
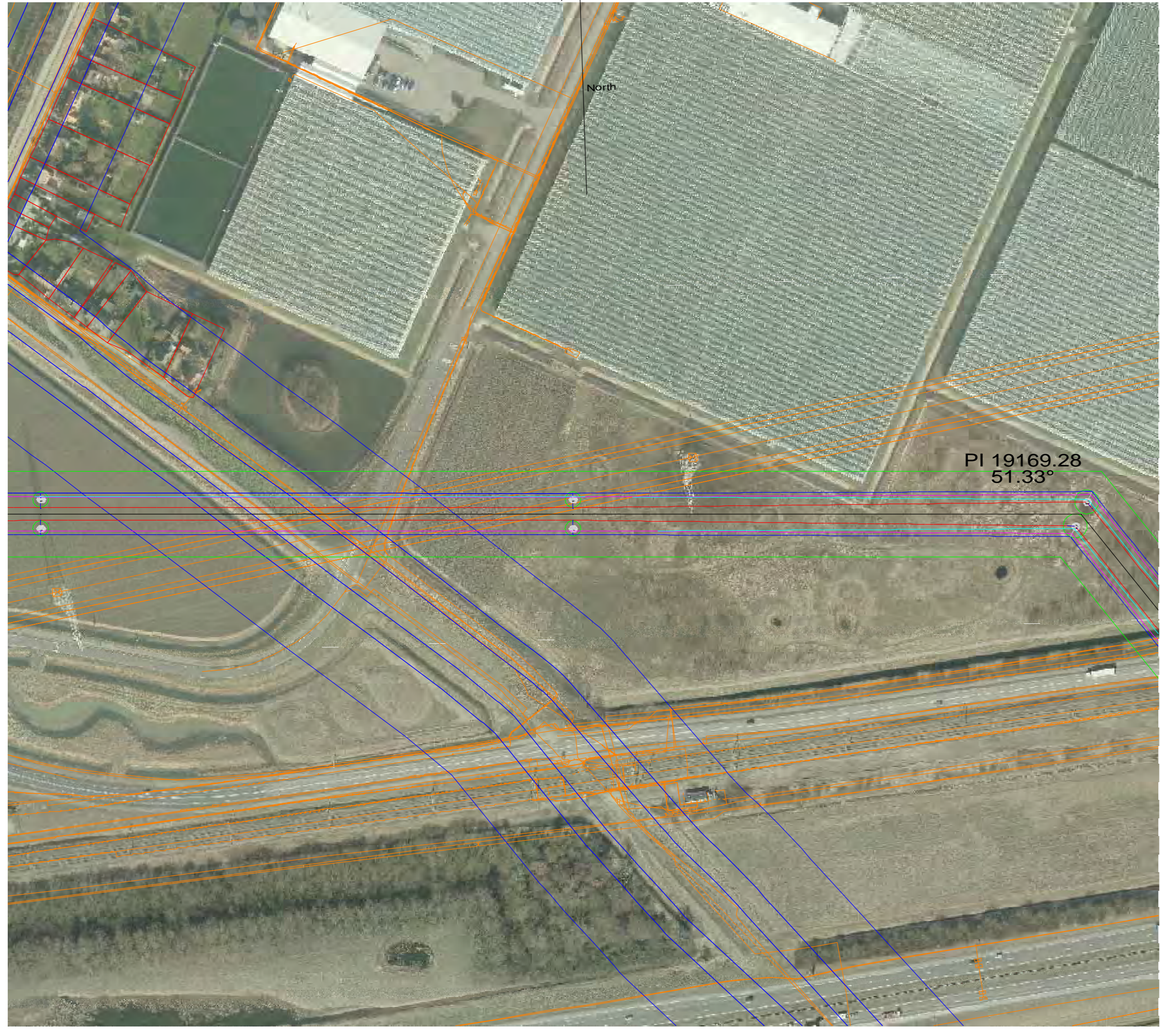
Preliminary Line Profile Drawings
Section DT2 (Structure 1050 - 1104)
Temperature conductor phase at 70°C

Borssele-Tilburg ZW380

Originator: AS
Approver: MvN
Checker: JAW
Date: 12-07-2016

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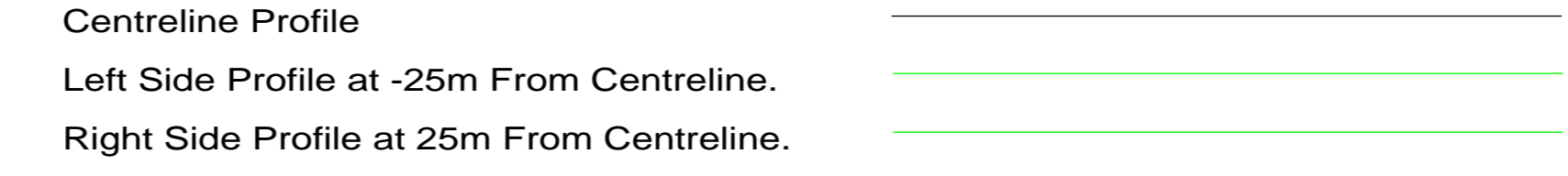
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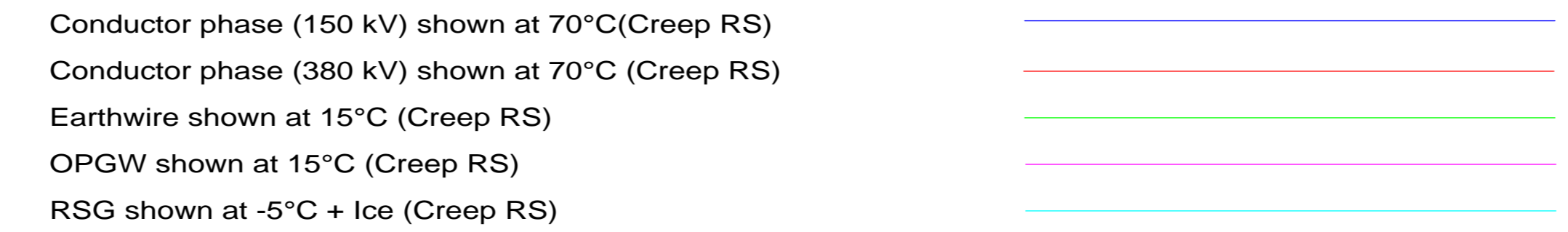
Notes:

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
5. Phase Conductor shown represents the middle of the bundel (500mm conductor separation new Wintrack line).
RSG shown represents the center of the bundel (200mm conductor separation).
6. This drawing is produced using PLS-Pole Models (New Wintrack line) based on dimensions from pole drawings
"000.145.11 0254226 Mastenontwerp.dossier 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.
8. 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:



Conductor Key:



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°C), please refer to the provided section table.

Feature Description	Symbol	380V-Radial Clearance (m)	150V-Radial Clearance (m)	0kV-Radial Clearance (m)
Ground	•	10.8	10	8.2
Roads	+	11.8	11	8.2
Railways	×	14	13.2	11.4
Highways	•	12.7	11.8	10.1
Buildings	•	7.7	6.9	5.1
Water	~	>8.3	>8.5	>8.7
Zuid-Beverland Kanaal	~	5.2	5.2	4.4
Foundation Area	⊗			
Pole	⊙			
Buried Services	⊖			

Rev	Date	Description	By	Chk	App
P10	06-07-2016	Tenth Issue Preliminary Line Profile Drawings	AS	JAW	MvN
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P8	19-08-2014	Eighth Issue Preliminary Line Profile Drawings	TG	MV	MvN

Preliminary Line Profile Drawings
Section DT2 (Structure 1050 - 1104)
Temperature conductor phase at 70°C

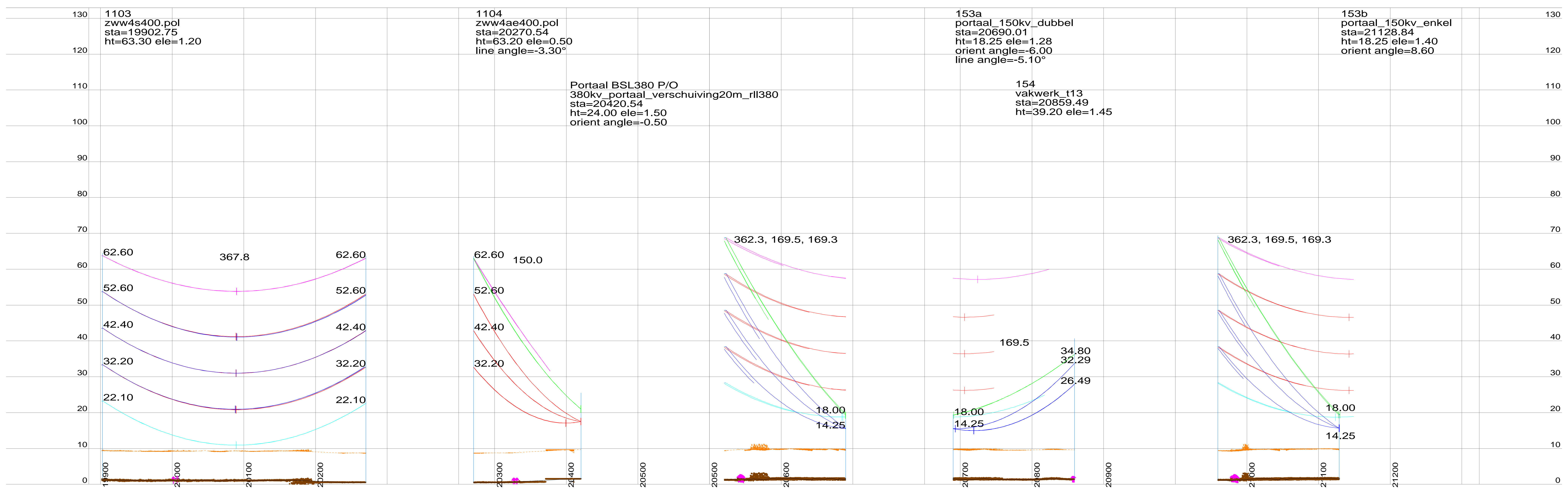
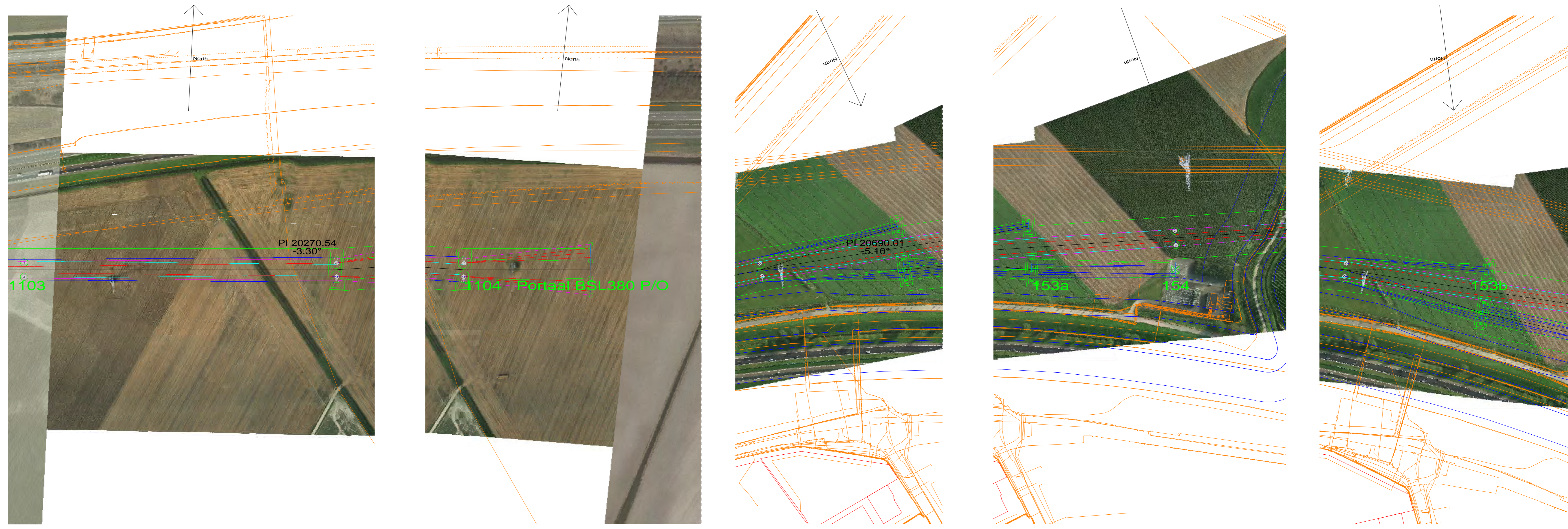
Borssele-Tilburg ZW380
Originator: AS
Approver: MvN
Checker: JAW
Date: 12-07-2016

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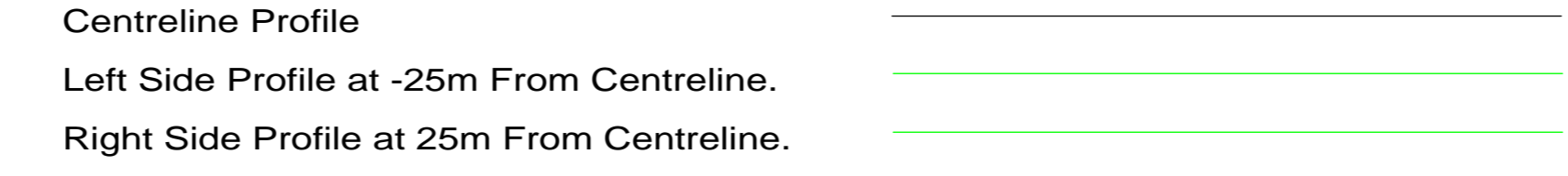
Drawing Number: **ZW380-DT2-P10**
Page 13/15
Rev P10



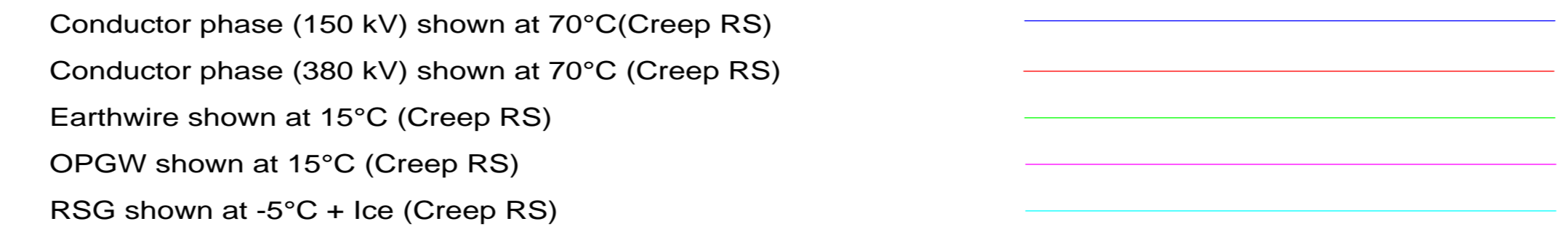
Notes:

1. PLS CADD Model based on Survey data supplied by Fugro and post processed by Movares.
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1105 (Tower Number) ZVW2E400 (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:



Conductor Key:



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°C), please refer to the provided section table.

Feature Description	Symbol	380kV-Radial Clearance (m)	150kV-Radial Clearance (m)	0kV-Radial Clearance (m)
Ground	•	10.8	10	8.2
Roads	+	11.8	11	8.2
Railways	×	14	13.2	11.4
Highways	•	12.7	11.8	10.1
Buildings	•	7.7	6.9	5.1
Water	~	>8.3	>8.5	>8.7
Zuid-Beverland Kanaal	~	52	51.2	49.4
Foundation Area	⊗			
Pole	⊙			
Buried Services	⊖			

Rev	Date	Description	By	Chk	App
P10	06-07-2016	Tenth Issue Preliminary Line Profile Drawings	AS	JAW	MvN
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P8	19-06-2014	Eighth Issue Preliminary Line Profile Drawings	TG	MV	MvN

Preliminary Line Profile Drawings
Section DT2 (Structure 1050 - 1104)
Temperature conductor phase at 70°C

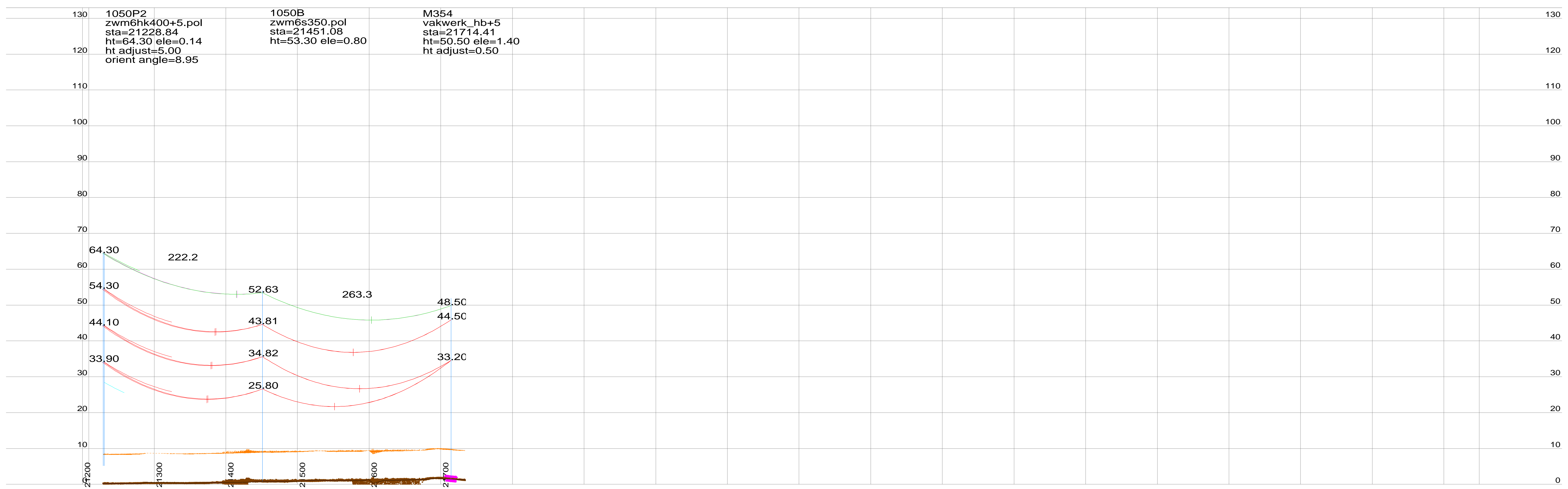
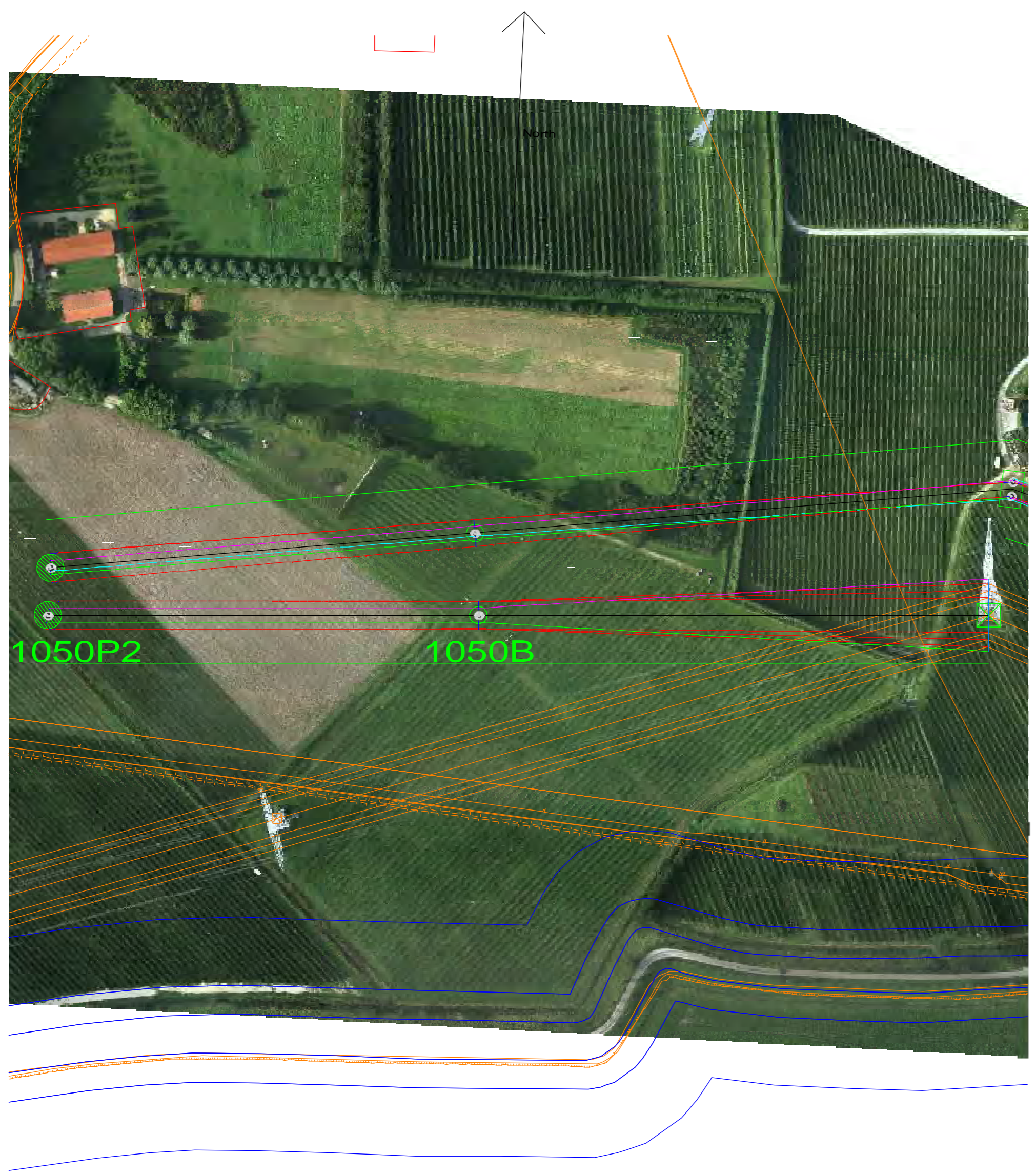
Project: **Borssele-Tilburg ZW380**
Originator: AS
Approver: MvN
Checker: JAW
Date: 12-07-2016

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Drawing Number: **ZW380-DT2-P10**
Page 14/15
Rev P10



Notes:

1. PLS CADD Model based on Survey data supplied by Fugro and post processed by Movares.
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RSG shown represents the center of the bundle (200mm conductor separation).
6. This drawing is produced using PLS-Pole Models (New Wintrack line) based on dimensions from pole drawings
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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) _____
- OPGW 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°C), please refer to the provided section table.

Feature Description	Symbol	380kV-Radial Clearance (m)	150kV-Radial Clearance (m)	0kV-Radial Clearance (m)
Ground	•	10.8	10	8.2
Roads	+	11.8	11	8.2
Railways	×	14	13.2	11.4
Highways	•	12.7	11.8	10.1
Buildings	—	7.7	6.9	5.1
Water	~	>8.3	>8.5	>8.7
Zuid-Beverland Kanaal	~	52	51.2	49.4
Foundation Area	⊗			
Pole	○			
Buried Services	—			

Rev	Date	Description	By	Chk	App
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Preliminary Line Profile Drawings
Section DT2 (Structure 1050 - 1104)
Temperature conductor phase at 70°C

Borssele-Tilburg ZW380

Originator: AS Checker: JAW
Approver: MvN Date: 12-07-2016

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Drawing Number:
ZW380-DT2-P10

Page 15/15 Rev P10