

### LEGEND, MAP

- New railway alignment
- Existing railway alignment (not in the Railway Project scope)
- Railway Area borderline
- Secondary Side Tracks - Horizontal geometry pre-designed (Secondary side tracks and their switches will be designed and constructed based on Appendix Q)
- Removal track
- Street or road modification area in level crossings or underpasses/flyovers
- Modification needed to the property access
- Affected parallel roads and streets and maintenance roads
- Road closing down
- Limit of designed soil cut (open cut or cut with a retaining wall)
- Limit of designed embankment fill, not including possible ditch
- Existing stations or passenger platforms
- New passenger platforms

### Symbols

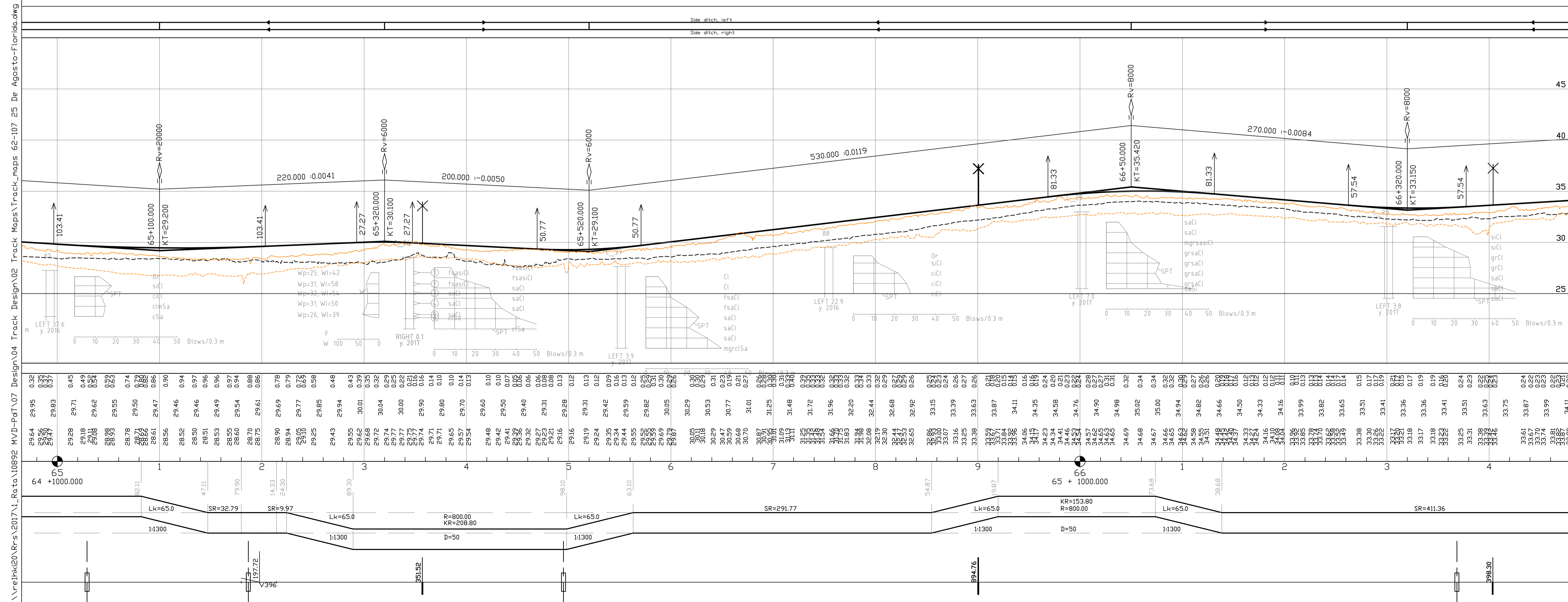
- BXXX BXXX: Railway bridge or underpass, Flyover
- CXXX: Culvert
- LCXXX: Level crossing

### Track alignment with design geometry figures

- R= curve radius (m)
- KR= length of curve (m)
- D= track cant (mm)
- Lk= length of transition curve (m)
- Rv= radius of vertical curve
- K= elevation
- TG= length of tangent
- 123.345= length of straight line (m)

### Sounding and Sample Symbols

- y. 2016: SPT-sounding, terminated at cobble, boulder, or bedrock contact.
- 217: year of investigation, location of 2016 soundings not accurate
- 1, 217= point number
- y. 2017: Disturbed Sample
- TR02= year of investigation
- point number



### LEGEND, PROFILE

- Vertical railway alignment (S=radius of vertical curve, KT=elevation point)
- Ground surface
- Ground elevation on the left side of track centre line (-20m) and on the right side of track centre line (+20m)
- Culvert location (elevation will be designed in detailed design phase)
- Level crossing
- Overpass bridge, railway or underpass bridge
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- Km stationing

### Horizontal alignment, schematic

- SR= length of straight line (m)
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Revision	Explanation	Date	Designer	Date	Acceptor
1	Initial design	15.12.2017	UPa		
2	Revised design	15.12.2017	HM/a / MLo		
3	Final design	15.12.2017	SVI		

MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS

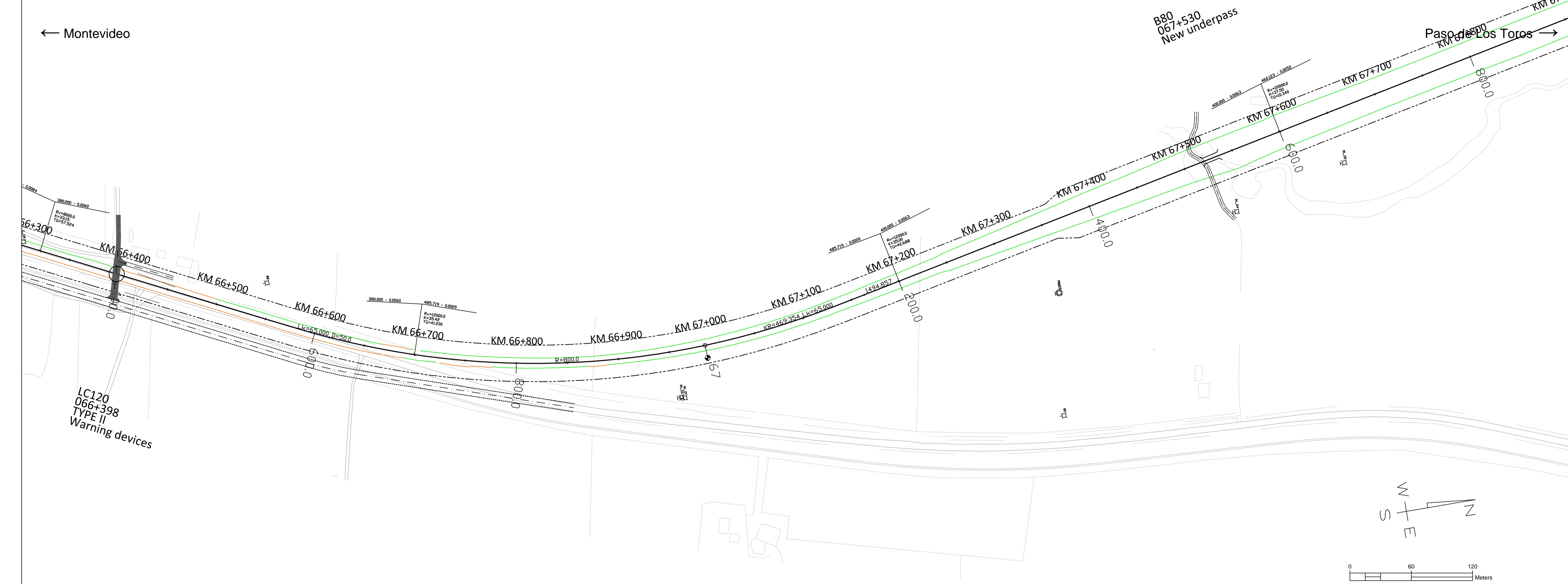
**Version 15.12.2017**

Customer	Railway Project	
Design phase	Pre-engineering, Phase 2	
Content	Track map and profile	
Supplier		
Project	Km 65+0000 - 66+0400	

Drawer	15.12.2017	UPa	Scale	map 1:2000, profile 1:2000 / 1:200
Designer	15.12.2017	HM/a / MLo	Coordinate system	WGS 84 UTM 21 S, Local orthometric height
Supervisor	15.12.2017	SVI	Elevation reference system	Railway line
Accept.			Montevideo - Paso de Los Toros	
Owner acc.			Archive	Type Number Rev. Sheet Sheets total

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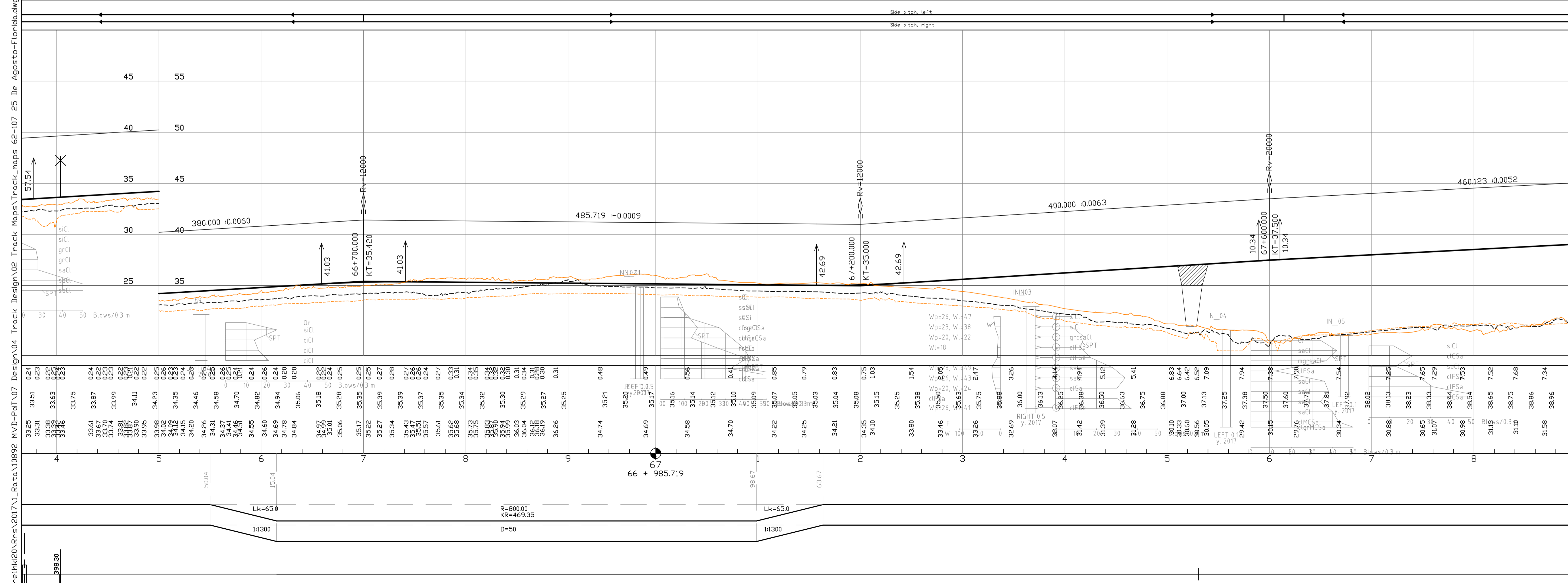
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### Track alignment with design geometry figures

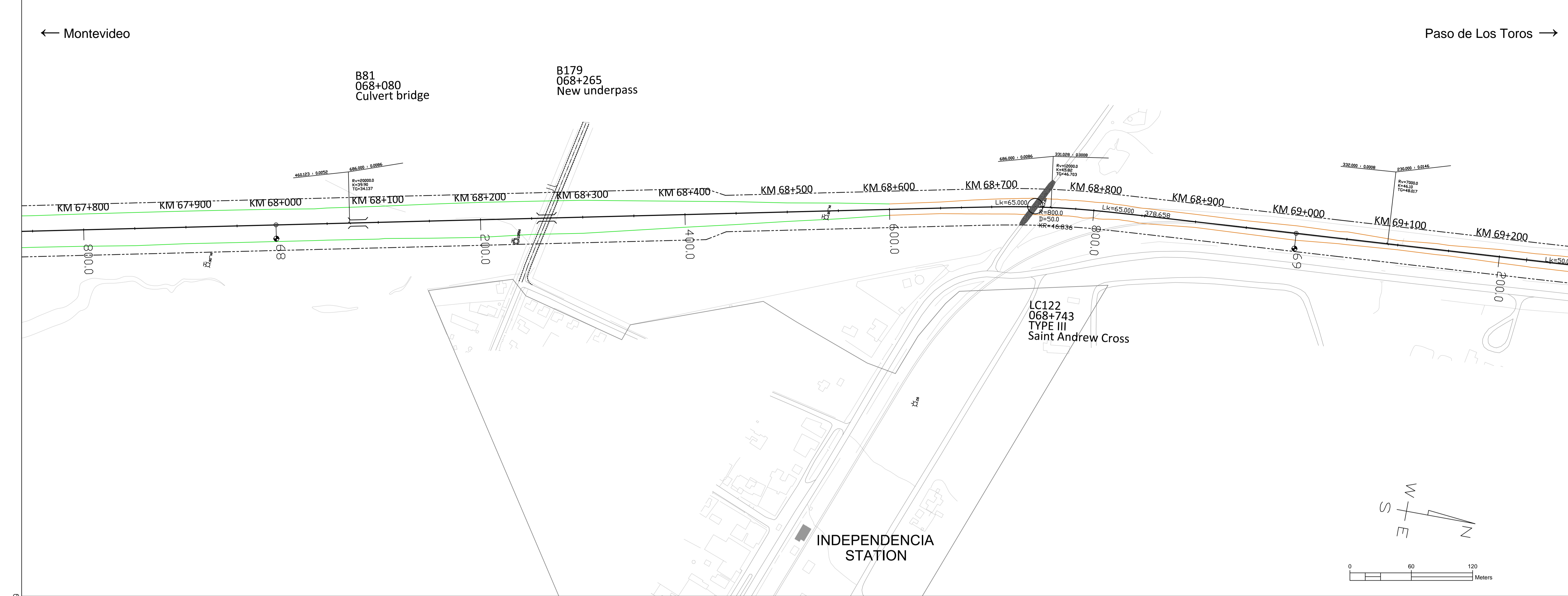
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SPT= sounding, terminated at cobble, boulder, or bedrock contact.  
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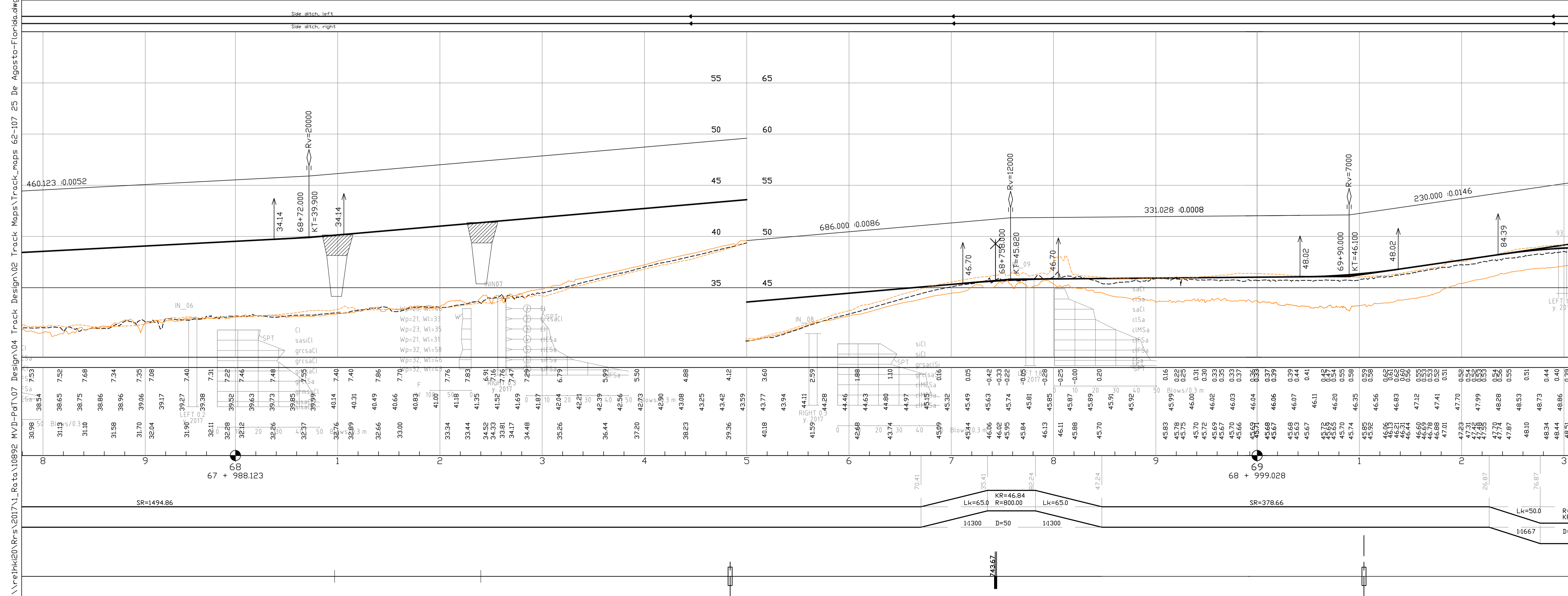
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### Version 15.12.2017

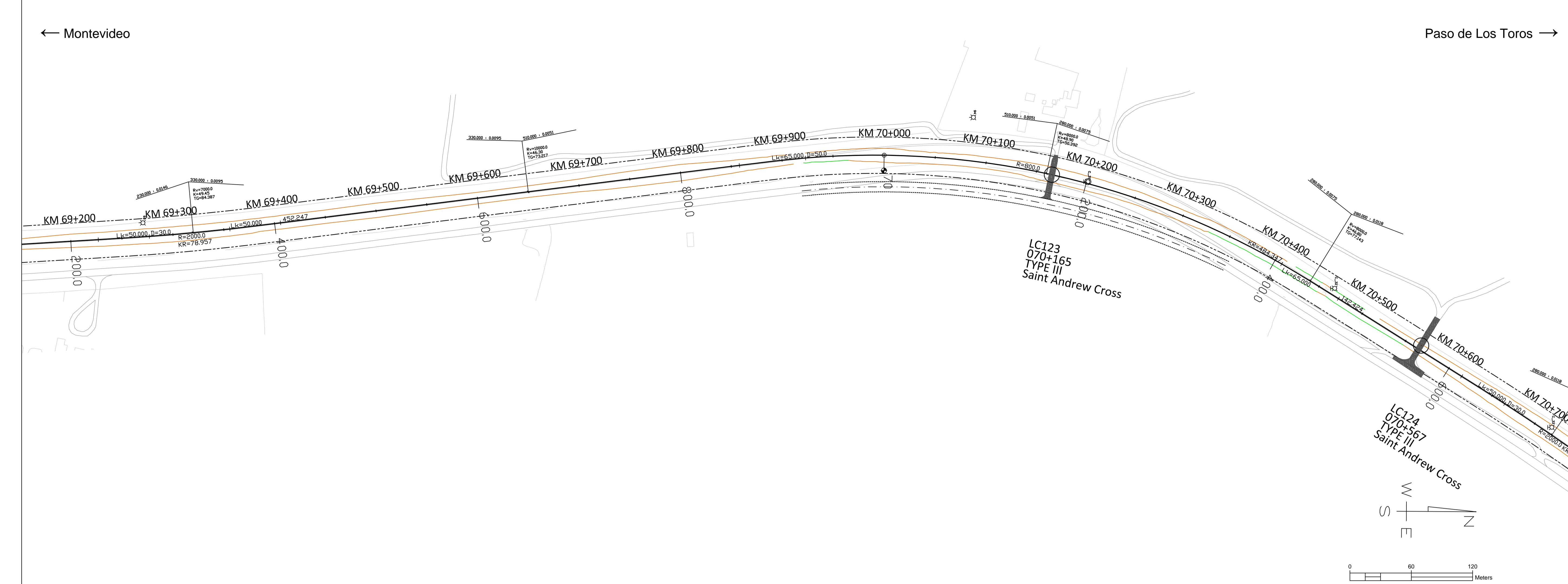
Revision	Explanation	Date	Designer	Date	Acceptor

Customer	MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS	Project	Railway Project
Design phase	Pre-engineering, Phase 2	Contract	Track map and profile
Supplier	VR TRACK	Contract	Km 67+0800 - 69+0200

Drawer	Designer	Supervisor	Accept.	Owner acc.	Scale	Coordinate system	Elevation reference system	Railway line	Archive	Type	Number	Rev.	Sheet	Sheets total
					map 1:2000, profile 1:2000 <td>WGS 84 UTM 21 S, Local orthometric height <td> </td> <td>Montevideo - Paso de Los Toros</td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </td>	WGS 84 UTM 21 S, Local orthometric height <td> </td> <td>Montevideo - Paso de Los Toros</td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td>		Montevideo - Paso de Los Toros						

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- Level crossing

### Track alignment with design geometry figures

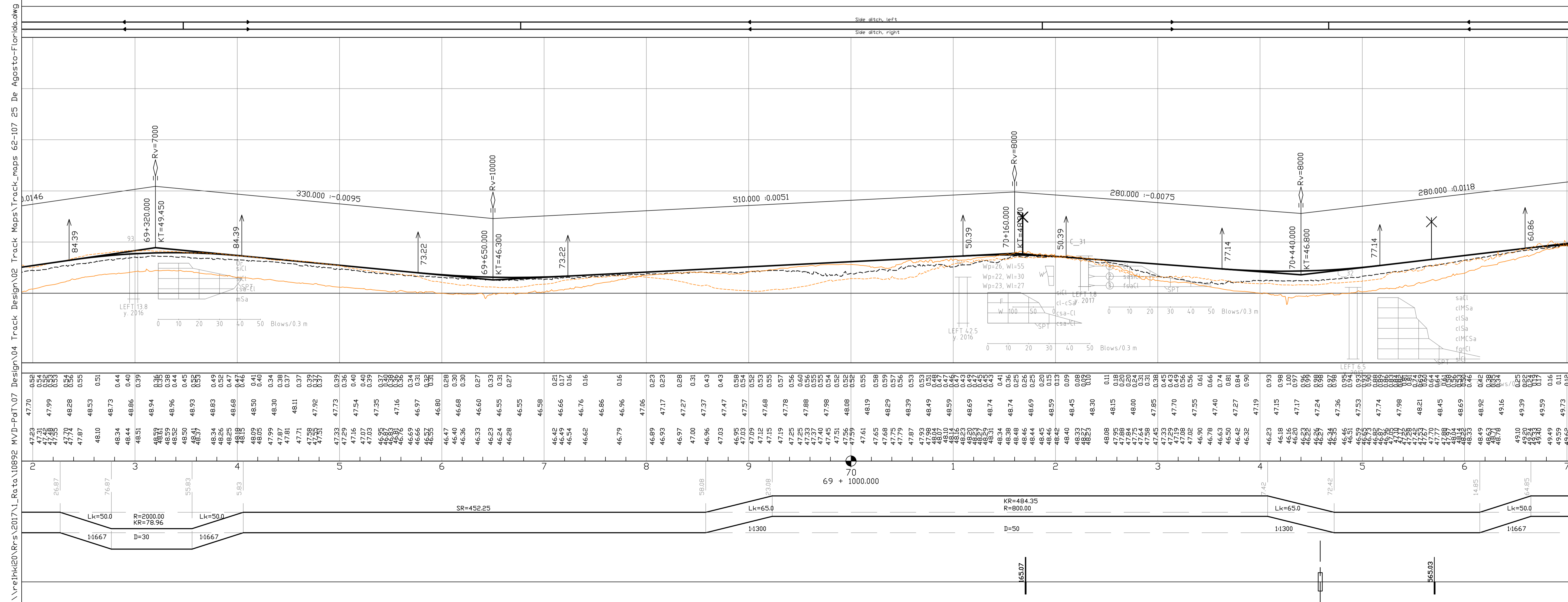
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### Version 15.12.2017

Revision	Explanation	Date	Designer	Date	Acceptor
1					

**Customer:** MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS  
**Project:** Railway Project  
**Design phase:** Pre-engineering, Phase 2  
**Content:** Track map and profile  
**Supplier:** TRACK  
**Project Name:** Km 69+0200 - 70+0600

Drawer	Date	UPa	Scale
15.12.2017	UPa	map 1:2000, profile 1:2000 / 1:200	

Designer	Date	HM/MLe	Coordinate system
15.12.2017	HM/MLe	WGS 84 UTM 21 S, Local orthometric height	

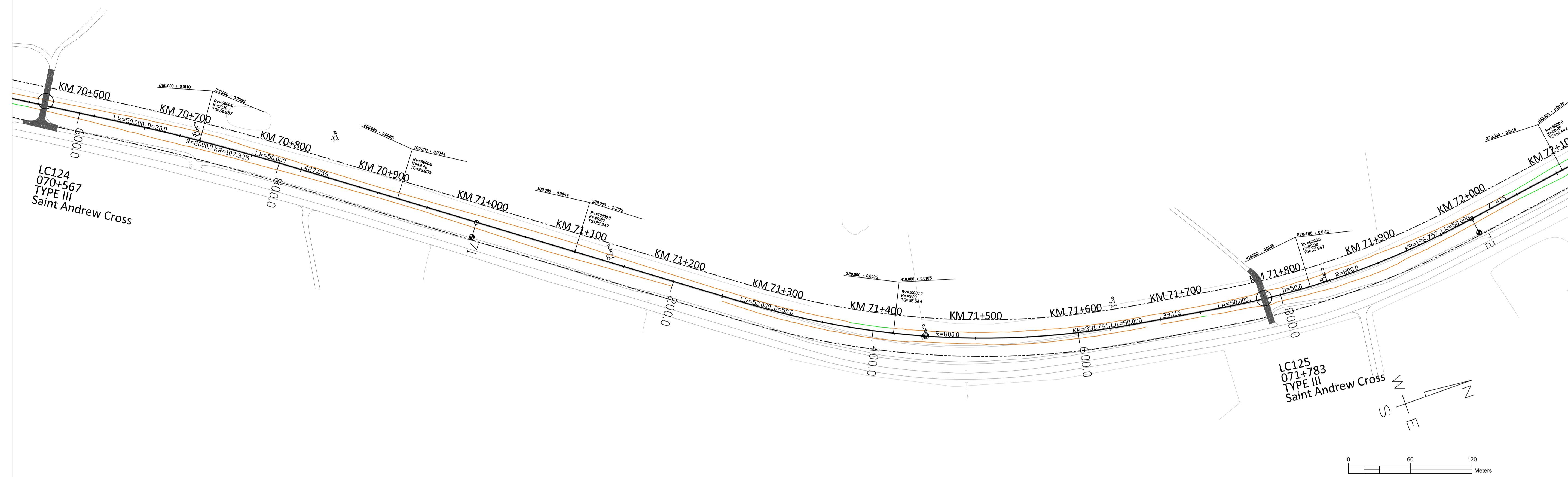
Supervisor	Date	SVI	Railway line
15.12.2017	SVI	Montevideo - Paso de Los Toros	

Accept.	Rev.	Sheet	Sheets total
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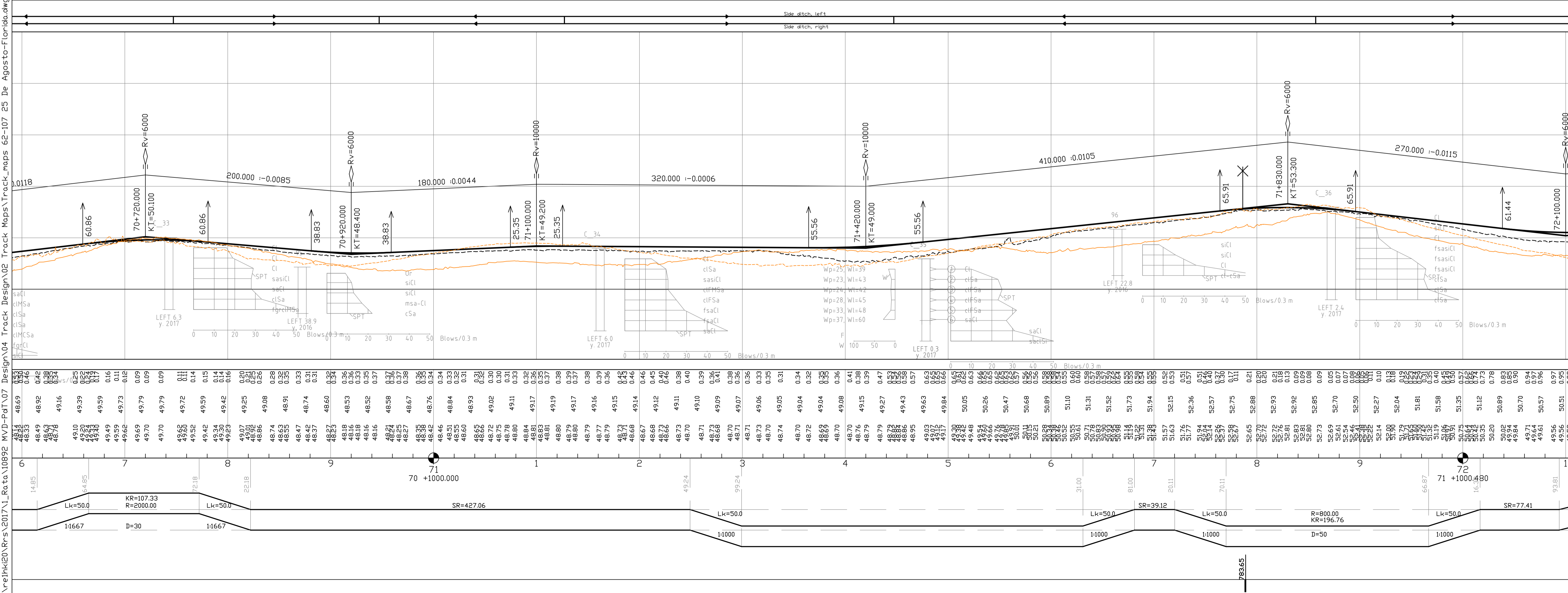
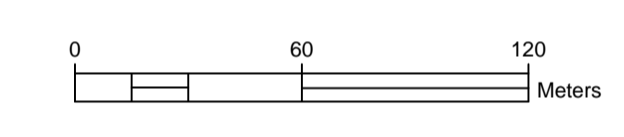


← Montevideo

Paso de Los Toros →



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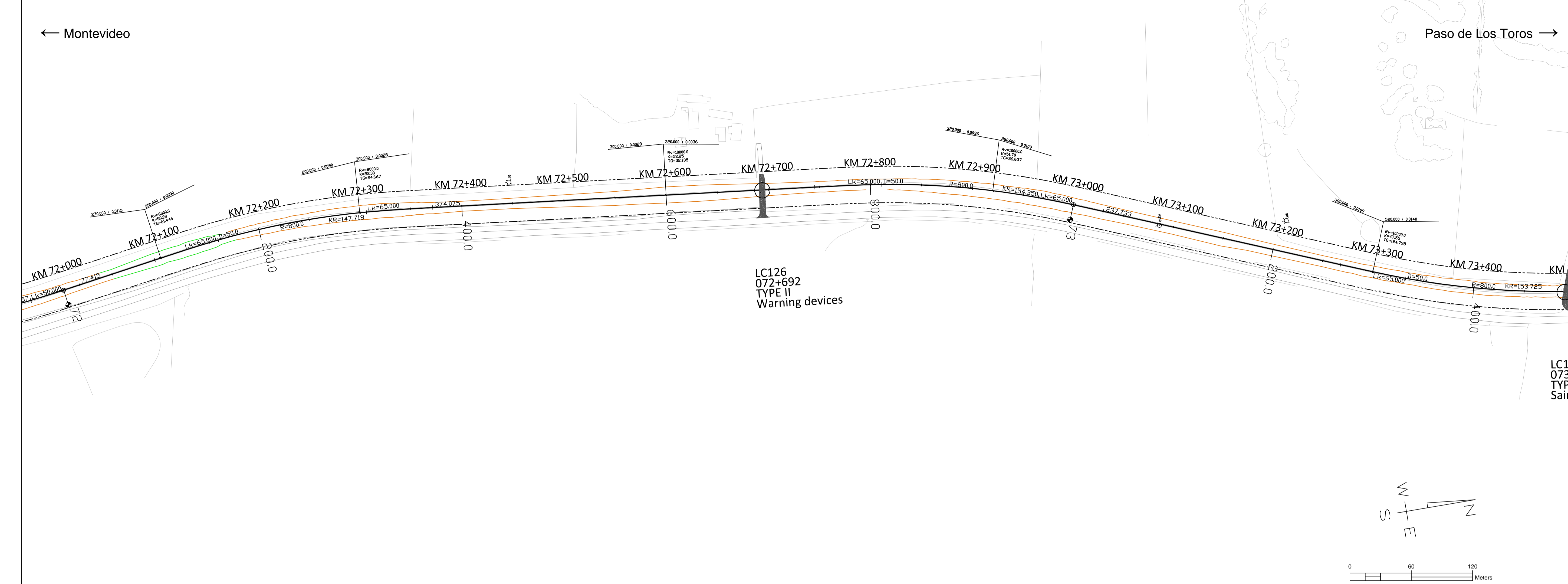
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Version 15.12.2017

Revision	Explanation	Date	Designer	Date	Acceptor
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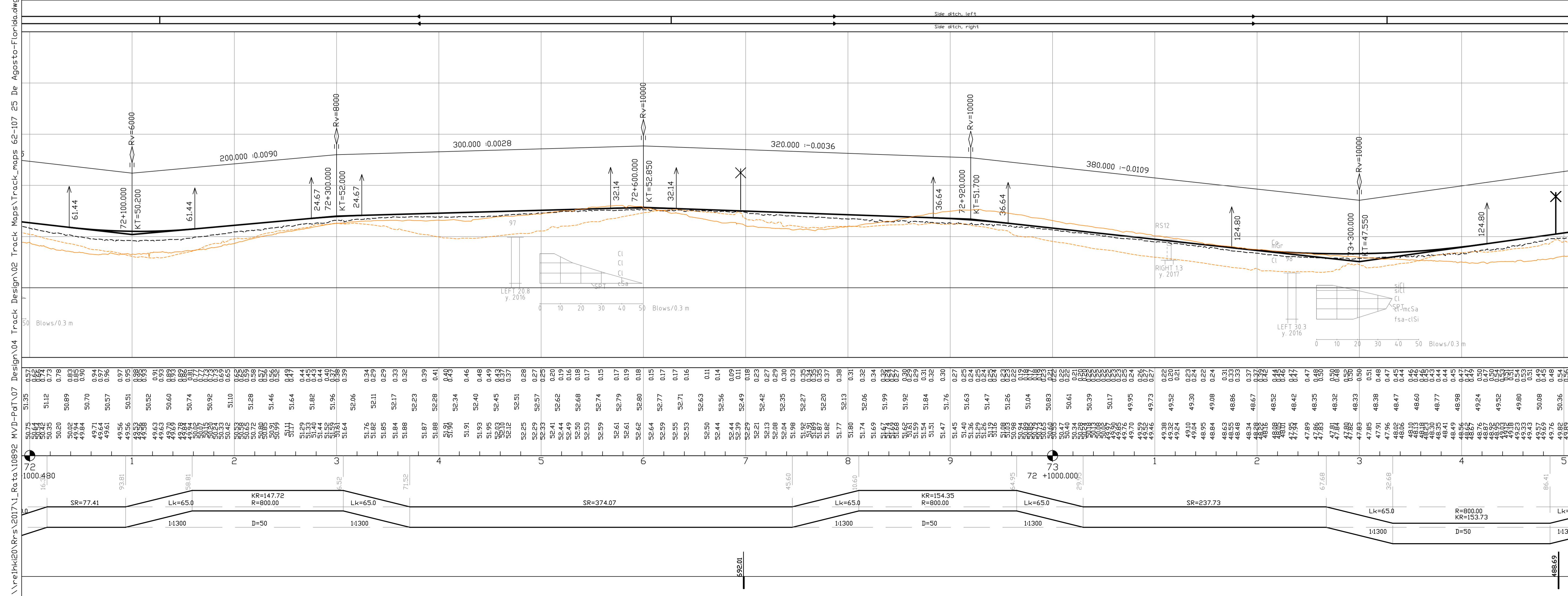
### LEGEND, SCHEMATIC

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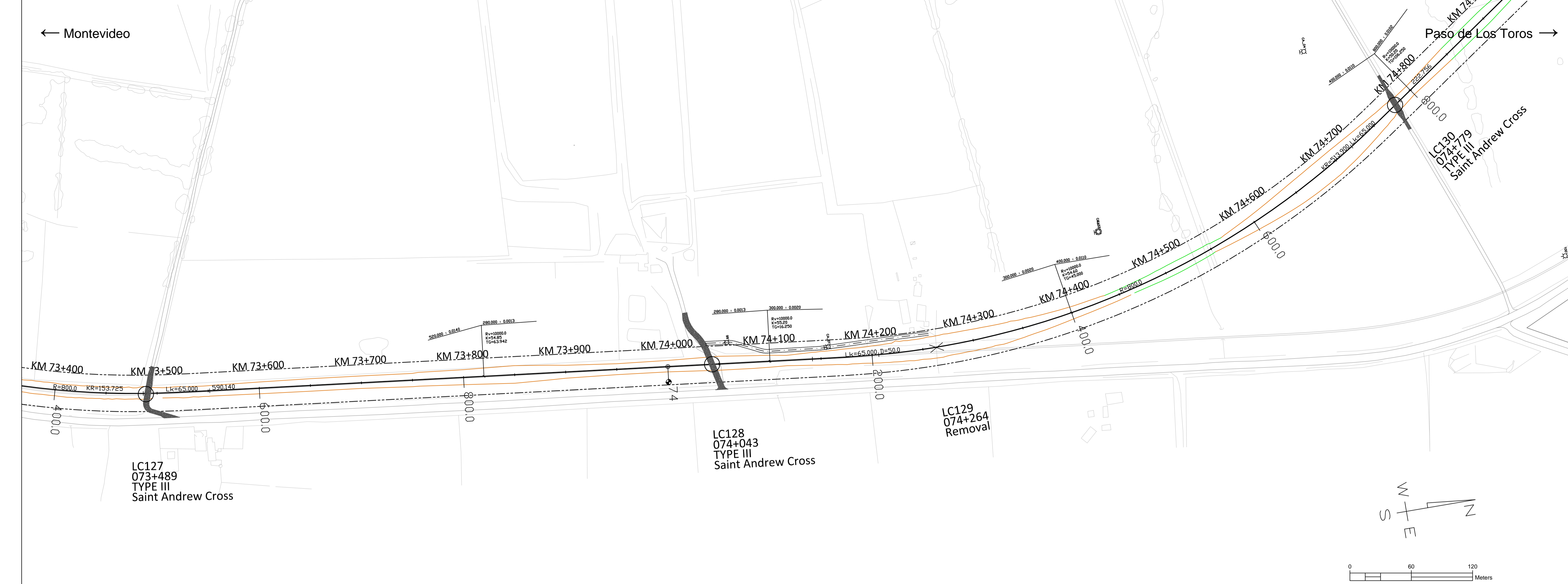
Symbols:  
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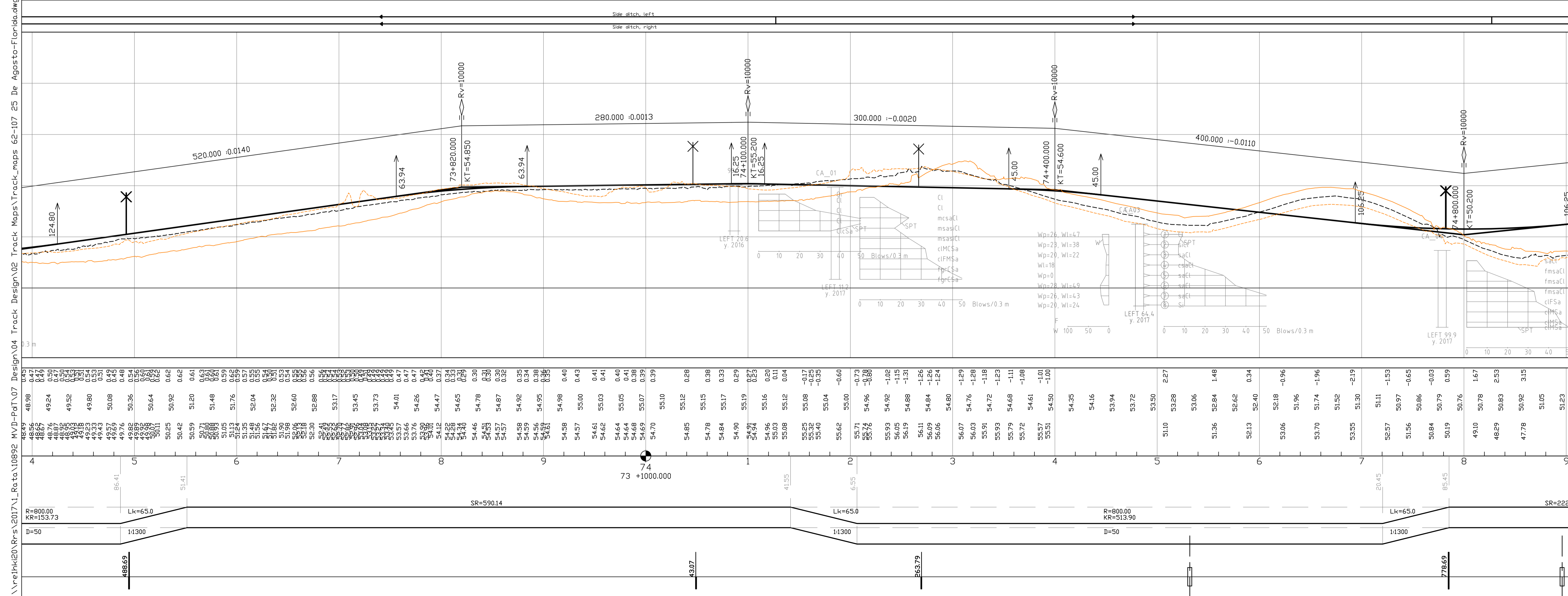
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**Version 15.12.2017**

Revision	Explanation	Date	Designer	Date	Acceptor
1					

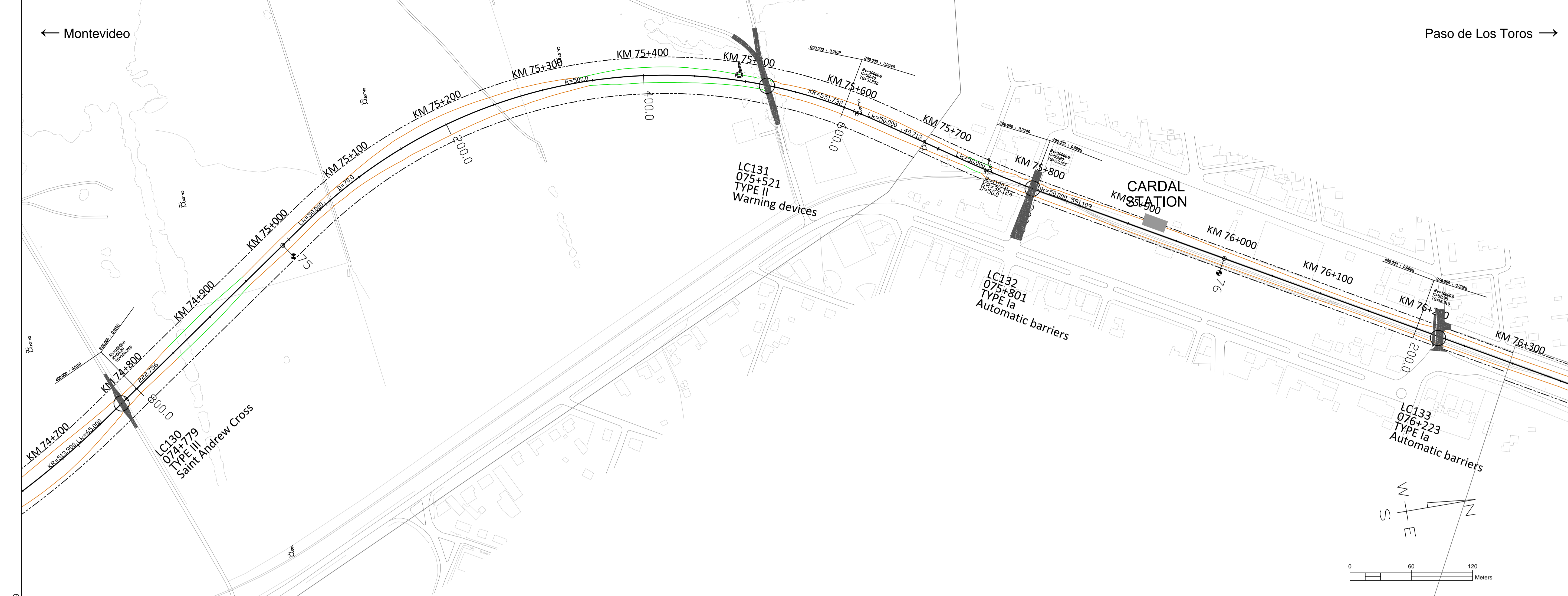
**MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS**

**VR TRACK**

Customer	Project
MTOP	Railway Project
Supplier	Design phase
VR TRACK	Pre-engineering, Phase 2
Content	
Track map and profile	
Km 73+0400 - 74+0800	

Drawer	15.12.2017	UPa	Scale	map 1:2000, profile 1:2000 / 1:200
Designer	15.12.2017	HMa / MLe	Coordinate system	WGS 84 UTM 21 S, Local orthometric height
Supervisor	15.12.2017	SVI	Elevation reference system	
Accept.			Railway line	Montevideo - Paso de Los Toros
Owner acc.			Archive	Type Number Rev. Sheet Sheets total





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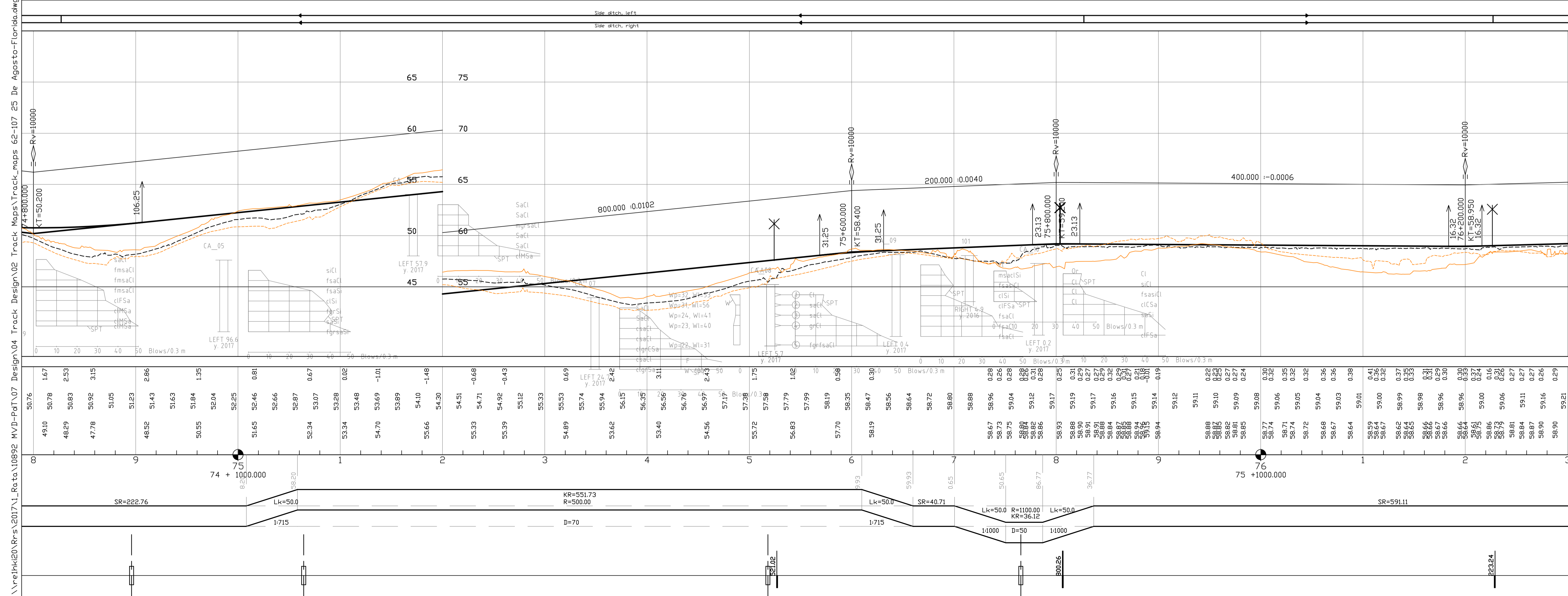
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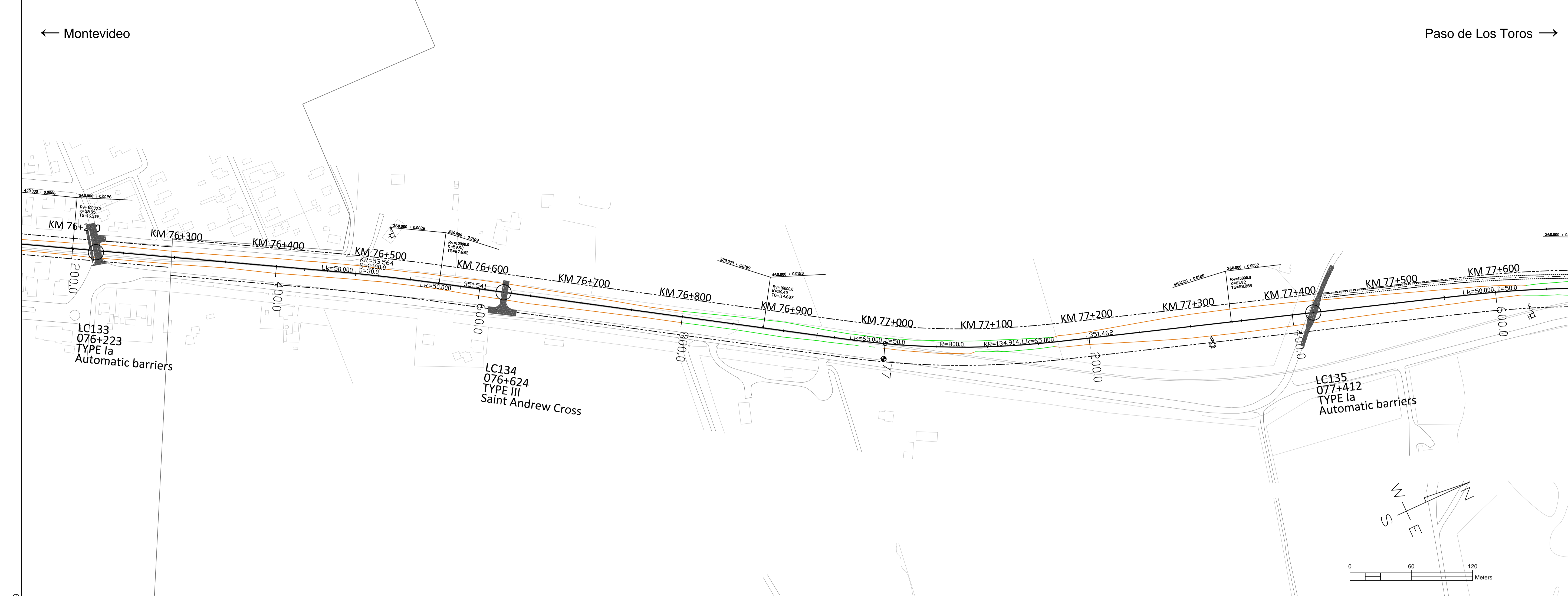
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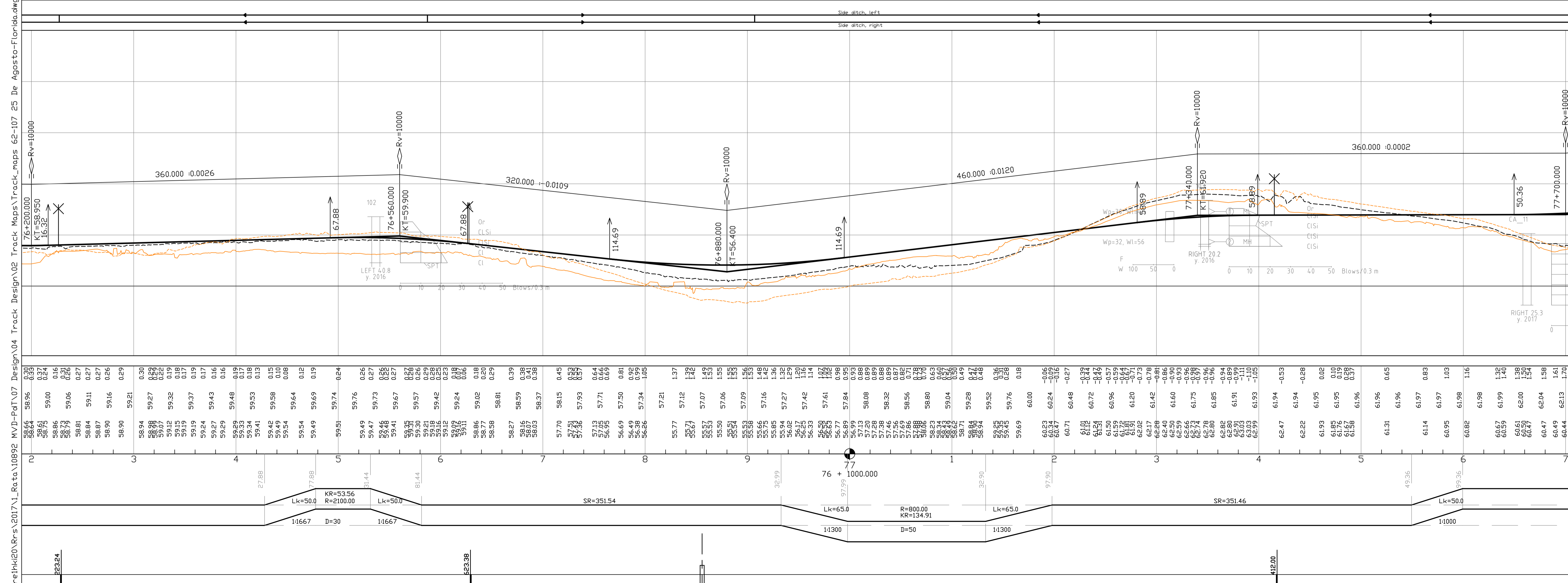
Customer	<b>MT OP</b> MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS	Project	Railway Project
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Supplier	<b>VR TRACK</b>		Km 74+0800 - 76+0200

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Supervisor	15.12.2017	SVI	Elevation reference system	Railway line
Accept.			Montevideo - Paso de Los Toros	Archive Type Number Rev. Sheet Sheets total
Owner acc.				54 195





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- LEGEND, PROFILE**
- Vertical railway alignment (S=radius of vertical curve, KT=elevation point)
  - Ground surface
  - Ground elevation on the left side of track centre line (-20m) and on the right side of track centre line (+20m)
  - Culvert location (elevation will be designed in detailed design phase)
  - Level crossing
  - Overpass bridge, railway or underpass bridge
  - Elevation figures
  - Difference between existing ground and designed track elevation
  - Designed track elevation (the running surface of the rail)
  - Existing ground elevation
  - Km stationing
- Horizontal alignment, schematic**
- SR = length of straight line (m)
  - R = curve radius (m)
  - KR = length of curve (m)
  - D = track cant (mm)
  - Lk = length of transition curve (m)

**Version 15.12.2017**

Revision	Explanation	Date	Designer	Date	Acceptor
1					

**Customer:** MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS  
**Project:** Railway Project  
**Design phase:** Pre-engineering, Phase 2  
**Content:** Track map and profile  
**Supplier:** TRACK  
**Project Name:** Km 76+0200 - 77+0600

Drawer	Date	Author	Scale
UPa	15.12.2017		map 1:2000, profile 1:2000 / 1:200

Supervisor	Date	System	Reference
SVI	15.12.2017	WGS 84 UTM 21 S, Local orthometric height	Montevideo - Paso de Los Toros

Archive Type Number Rev. Sheet Sheets  
 Owner acc. 55 195



← Montevideo

Paso de Los Toros →



**LEGEND, MAP**

- New railway alignment
- Existing railway alignment (not in the Railway Project scope)
- Railway Area borderline
- Secondary Side Tracks - Horizontal geometry pre-designed (Secondary side tracks and their switches will be designed and constructed based on Appendix Q)
- Removal track
- Street or road modification area in level crossings or underpasses/flyovers
- Modification needed to the property access
- Affected parallel roads and streets and maintenance roads
- Road closing down
- Limit of designed soil cut (open cut or cut with a retaining wall)
- Limit of designed embankment fill, not including possible ditch
- Existing stations or passenger platforms
- New passenger platforms

**Symbols**

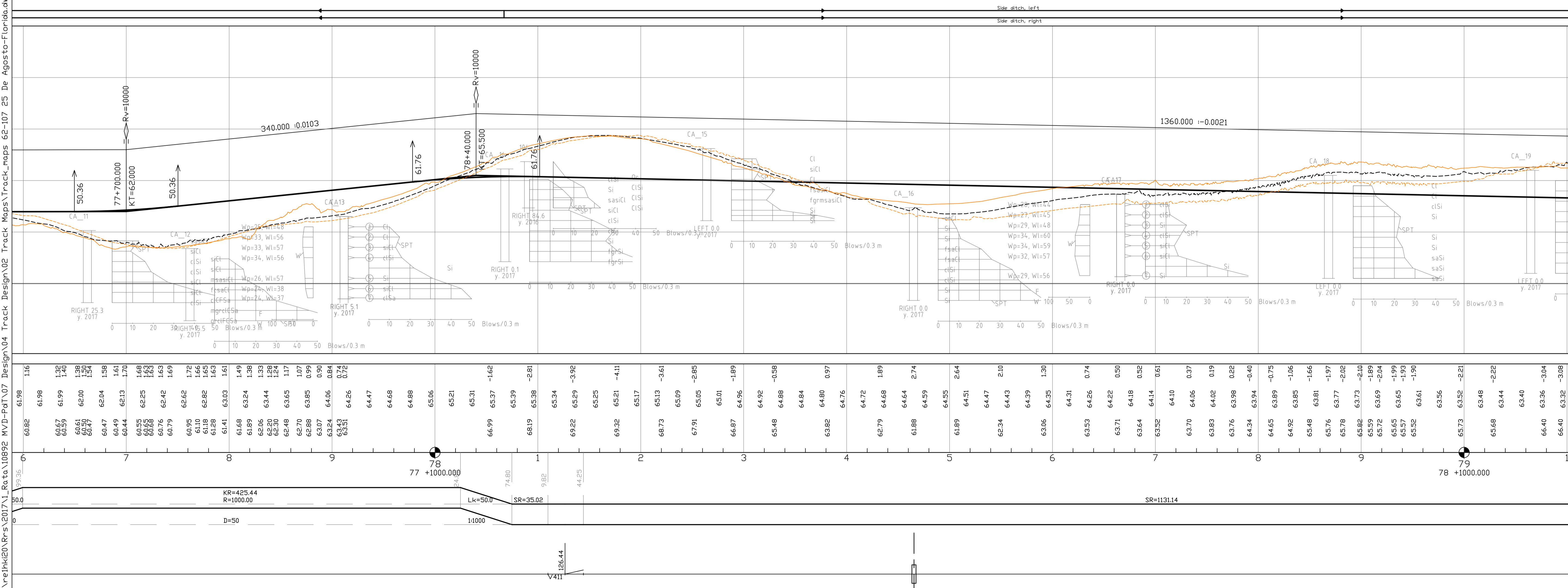
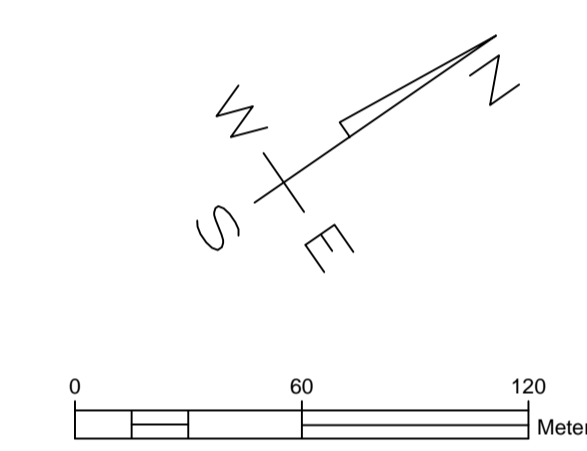
- BXXX BXXX: Railway bridge or underpass, Flyover
- CXXX: Culvert
- LCXXX: Level crossing

**Track alignment with design geometry figures**

- R= curve radius (m)
- KR= length of curve (m)
- D= track cant (mm)
- Lk= length of transition curve (m)
- Rv= radius of vertical curve
- K= elevation
- TG= length of tangent
- 123.345= length of straight line (m)

**SPT-sounding, terminated at cobble, boulder, or bedrock contact.**

- y. 2016= year of investigation, location of 2016 soundings not accurate
- 1, 217= point number
- y. 2017= year of investigation
- TR02= point number



**LEGEND, PROFILE**

- Vertical railway alignment (S=radius of vertical curve, KT=elevation point)
- Ground surface
- Ground elevation on the left side of track centre line (-20m) and on the right side of track centre line (+20m)
- Culvert location (elevation will be designed in detailed design phase)
- Level crossing
- Overpass bridge, railway or underpass bridge
- Elevation figures
- Difference between existing ground and designed track elevation
- Designed track elevation (the running surface of the rail)
- Existing ground elevation
- Km stationing

**Horizontal alignment, schematic**

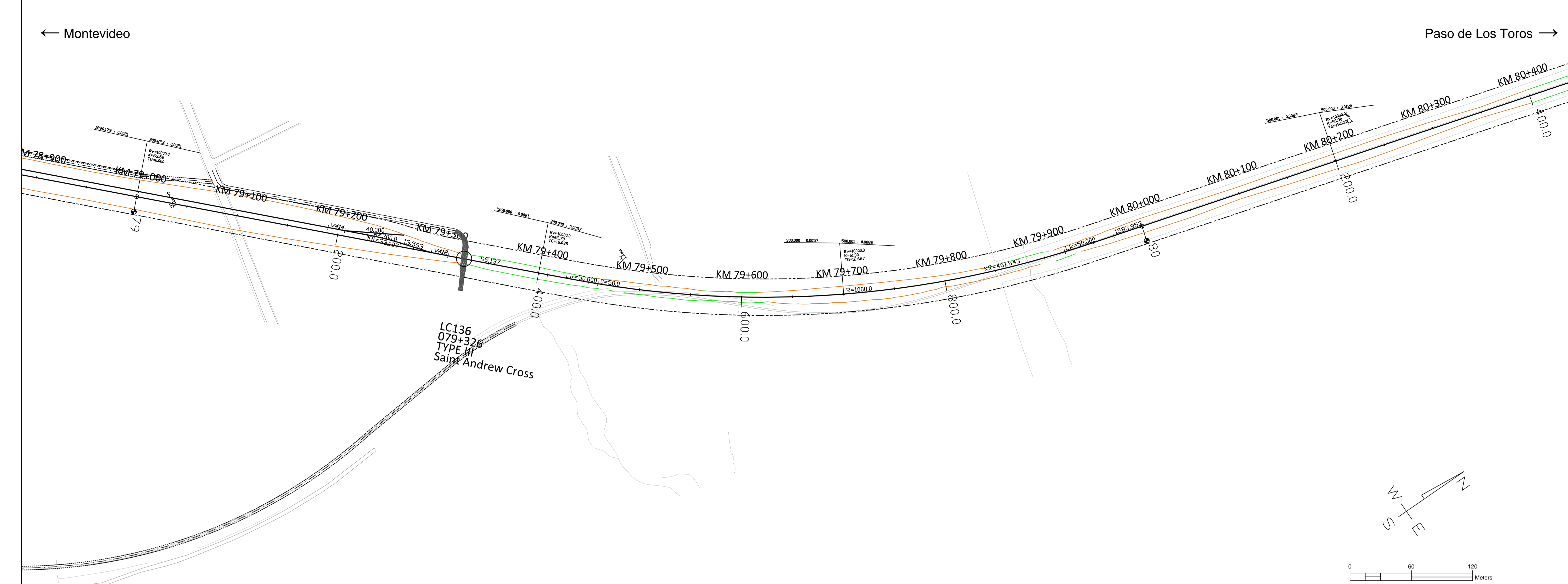
- SR= length of straight line (m)
- R= curve radius (m)
- KR= length of curve (m)
- D= track cant (mm)
- Lk= length of transition curve (m)

Version 15.12.2017

Revision	Explanation	Date	Designer	Date	Acceptor
1					

Customer	MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS	Project	Railway Project
Design phase	Pre-engineering, Phase 2	Content	Track map and profile
Supplier	VR TRACK	Scale	map 1:2000, profile 1:2000 / 1:200
Drawer	UPa	Coordinate system	WGS 84 UTM 21 S, Local orthometric height
Designer	HMa / MLe	Elevation reference system	Railway line
Supervisor	SVI	Archive	Montevideo - Paso de Los Toros
Accept.		Type	Number
Owner acc.		Rev.	Sheet
		Total	56 / 195





### LEGEND, MAP

- New railway alignment
- Existing railway alignment (not in the Railway Project scope)
- Railway Area borderline
- Secondary Side Tracks - Horizontal geometry pre-designed (Secondary side tracks and their switches will be designed and constructed based on Appendix Q)
- Removal track
- Street or road modification area in level crossings or underpasses/flyovers
- Modification needed to the property access
- Affected parallel roads and streets and maintenance roads
- Road closing down
- Limit of designed soil cut (open cut or cut with a retaining wall)
- Limit of designed embankment fill, not including possible ditch
- Existing stations or passenger platforms
- New passenger platforms

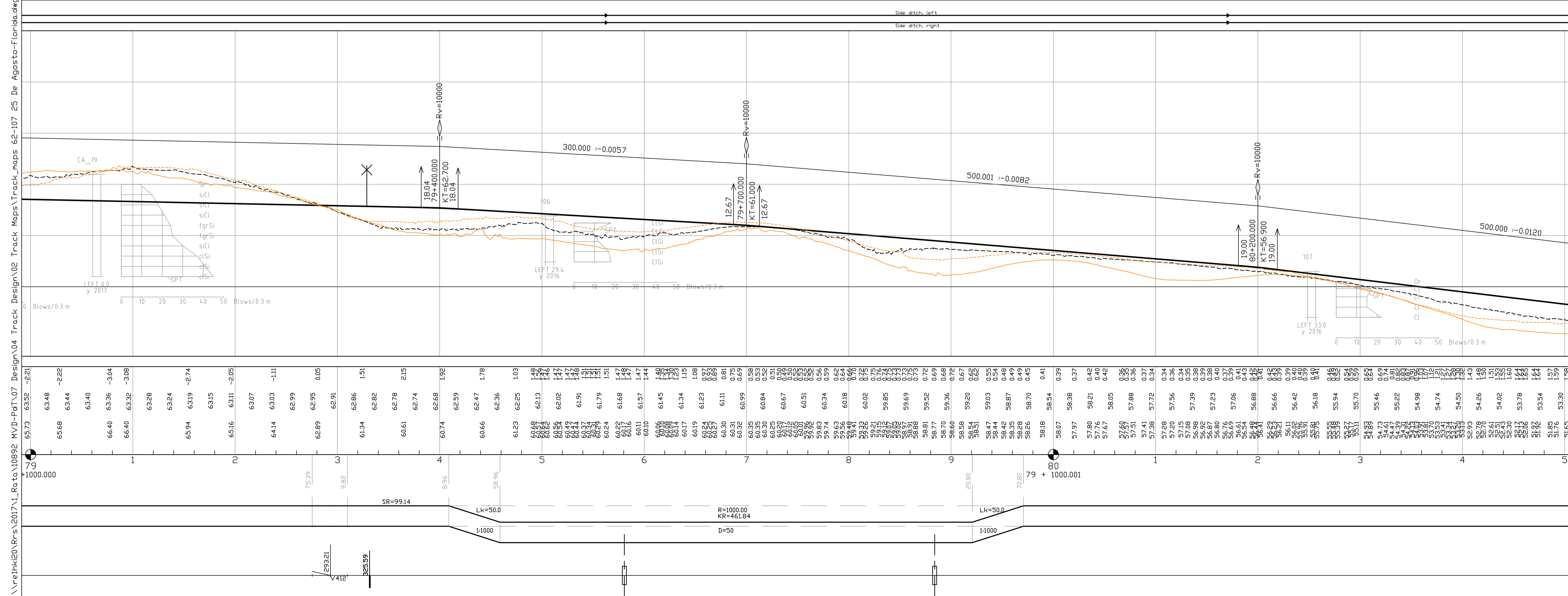
### Symbols

- BXXX BXXX: Railway bridge or underpass, Flyover
- CXXX: Culvert
- LCXXX: Level crossing

### Track alignment with design geometry figures

- R= curve radius (m)
- KR= length of curve (m)
- D= track cant (mm)
- Lk= length of transition curve (m)
- Rv= radius of vertical curve
- K= elevation
- TG= length of tangent
- 123.345= length of straight line (m)

SPT=sounding, terminated at cobble, boulder, or bedrock contact.  
 y. 2016= year of investigation, location of 2016 soundings not accurate  
 1, 217= point number  
 y. 2017  
 TR02= year of investigation  
 TR02= point number



### LEGEND, PROFILE

- Vertical railway alignment (S=radius of vertical curve, KT=elevation point)
- Ground surface
- Ground elevation on the left side of track centre line (-20m) and on the right side of track centre line (+20m)
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- Overpass bridge, railway or underpass bridge
- Elevation figures
- Difference between existing ground and designed track elevation
- Designed track elevation (the running surface of the rail)
- Existing ground elevation
- Km stationing

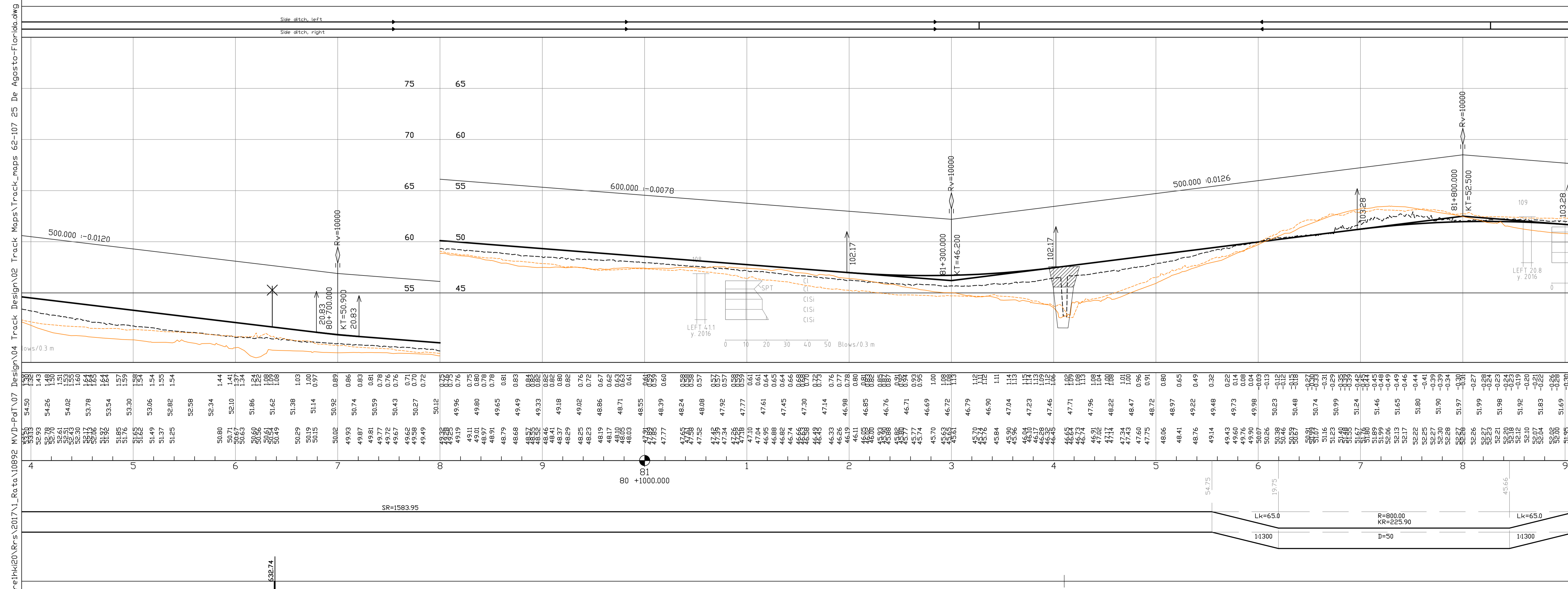
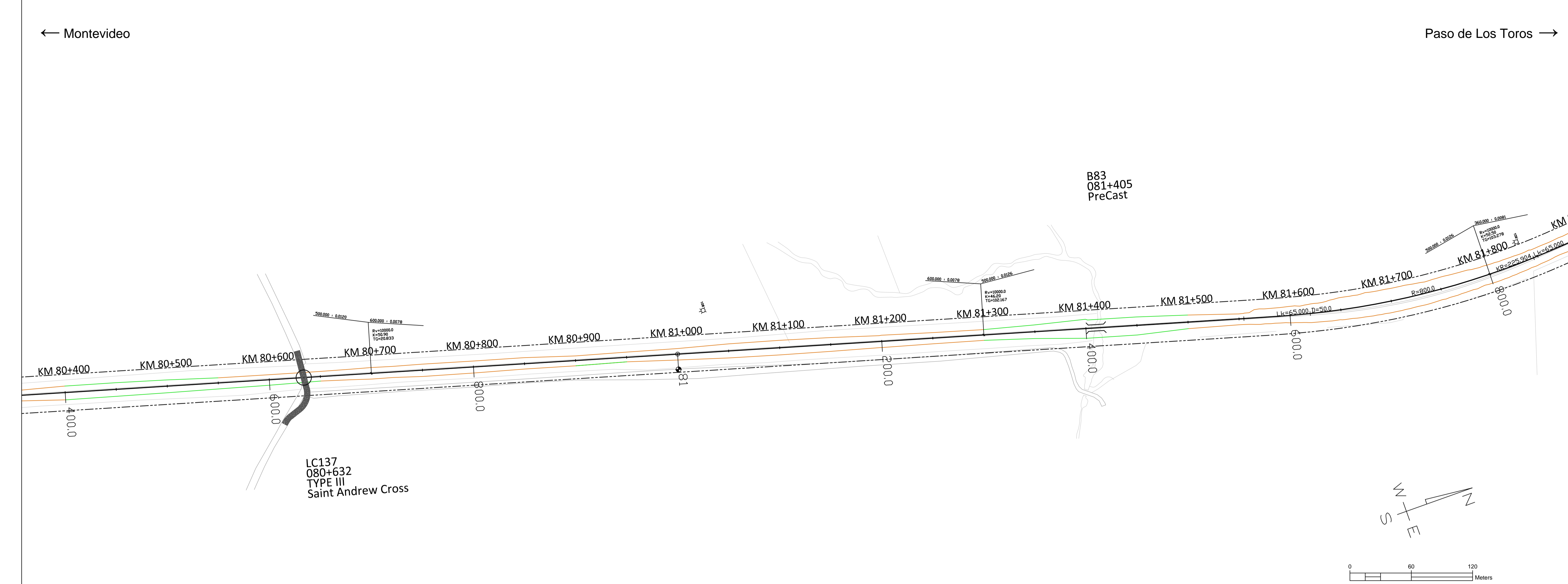
### Horizontal alignment, schematic

- SR= length of straight line (m)
- R= curve radius (m)
- KR= length of curve (m)
- D= track cant (mm)
- Lk= length of transition curve (m)

Revision	Explanation	Date	Designer	Date	Acceptor
1					

<b>MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS</b>		<b>Railway Project</b>	
<b>Supplier</b> 		<b>Design phase</b> Pre-engineering, Phase 2	
<b>Content</b> Track map and profile		<b>Scale</b> map 1:2000, profile 1:2000 / 1:200	
<b>Drawer</b> 15.12.2017 UPa		<b>Coordinate system</b> WGS 84 UTM 21 S, Local orthometric height	
<b>Designer</b> 15.12.2017 HMa / MLo		<b>Elevation reference system</b> Railway line	
<b>Supervisor</b> 15.12.2017 SVI		Montevideo - Paso de Los Toros	
<b>Accept.</b>		<b>Archive</b>	
<b>Owner acc.</b>		<b>Type</b>	
		<b>Number</b>	
		<b>Rev.</b>	
		<b>Sheet</b>	
		<b>Total</b>	
		<b>57</b>	
		<b>195</b>	





### LEGEND, MAP

- New railway alignment
- Existing railway alignment (not in the Railway Project scope)
- - - Railway Area borderline
- Secondary Side Tracks - Horizontal geometry pre-designed (Secondary side tracks and their switches will be designed and constructed based on Appendix Q)
- Removal track
- █ Street or road modification area in level crossings or underpasses/flyovers
- Modification needed to the property access
- Affected parallel roads and streets and maintenance roads
- Road closing down
- Limit of designed soil cut (open cut or cut with a retaining wall)
- Limit of designed embankment fill, not including possible ditch
- █ Existing stations or passenger platforms
- █ New passenger platforms
- Symbols
- BXXX BXXX Railway bridge or underpass, Flyover
- CXXX Culvert
- Level crossing
- LCXXX

### Track alignment with design geometry figures

R= curve radius (m)  
 KR= length of curve (m)  
 D= track cant (mm)  
 Lk= length of transition curve (m)  
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 TG= length of tangent  
 123.345= length of straight line (m)

SPT=sounding, terminated at cobble, boulder, or bedrock contact.  
 y. 2016= year of investigation, location of 2016 soundings not accurate  
 1, 217= point number

Disturbed Sample  
 y. 2017= year of investigation  
 TR02= point number

### LEGEND, PROFILE

Vertical railway alignment  
 (S=radius of vertical curve, KT=elevation point)

Ground surface

Ground elevation on the left side of track centre line (-20m) and on the right side of track centre line (+20m)

Culvert location (elevation will be designed in detailed design phase)

Level crossing

Overpass bridge, railway or underpass bridge

Elevation figures

Difference between existing ground and designed track elevation

Designed track elevation (the running surface of the rail)

Existing ground elevation

Km stationing

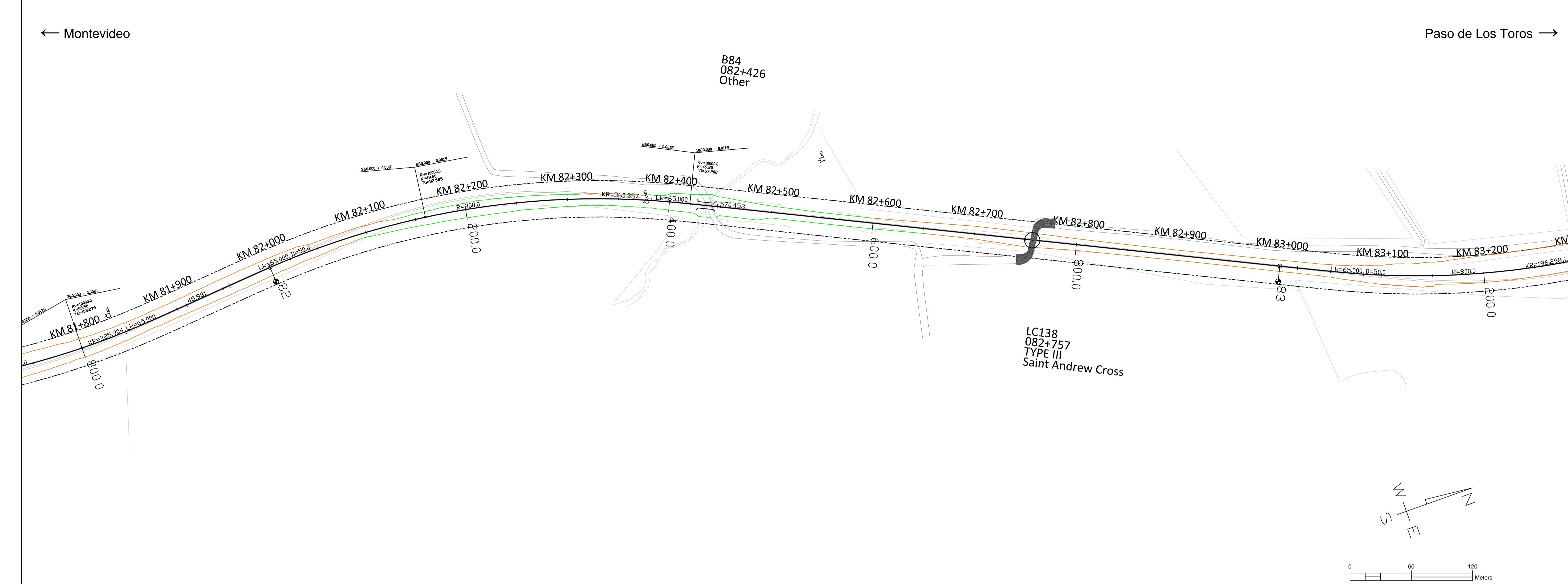
Horizontal alignment, schematic

SR= length of straight line (m)  
 R= curve radius (m)  
 KR= length of curve (m)  
 D= track cant (mm)  
 Lk= length of transition curve (m)

Version 15.12.2017				
Revision	Explanation	Date	Designer	Acceptor
1				
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Customer	MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS	Project	Railway Project
Supplier	VR TRACK	Design phase	Pre-engineering, Phase 2
Content		Content	Track map and profile
Content		Content	Km 80+0400 - 81+0800
Drawer	15.12.2017 UPa	Scale	map 1:2000, profile 1:2000 / 1:200
Designer	15.12.2017 HMa / MLe	Coordinate system	WGS 84 UTM 21 S, Local orthometric height
Supervisor	15.12.2017 SVI	Elevation reference system	Railway line
Accept.		Archive	Montevideo - Paso de Los Toros
Owner acc.		Type	Number
		Rev.	Sheet
		Total	Sheets
			58 / 195





### LEGEND, MAP

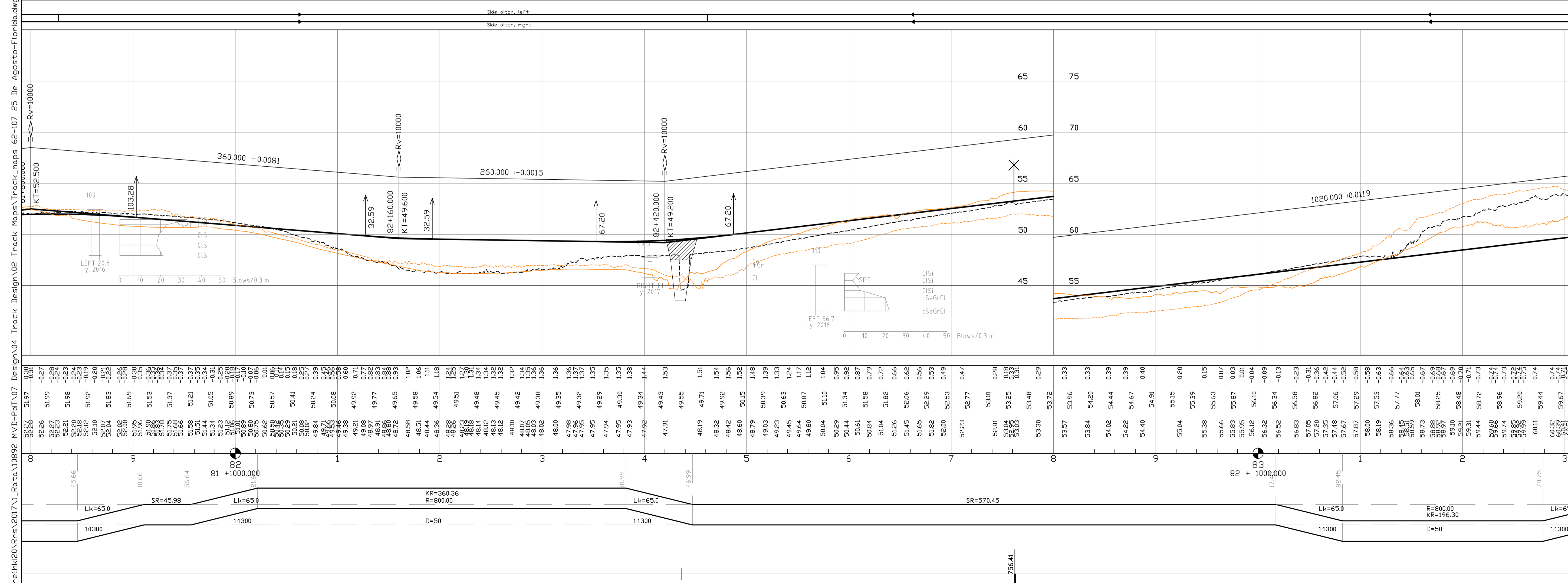
- New railway alignment
- Existing railway alignment (not in the Railway Project scope)
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- Affected parallel roads and streets and maintenance roads
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- Limit of designed soil cut (open cut or cut with a retaining wall)
- Limit of designed embankment fill, not including possible ditch
- Existing stations or passenger platforms
- New passenger platforms
- Symbols
- Railway bridge or underpass, Flyover
- Culvert
- Level crossing
- Level crossing

### Track alignment with design geometry figures

R= curve radius (m)  
 KR= length of curve (m)  
 D= track cant (mm)  
 Lk= length of transition curve (m)  
 RV= radius of vertical curve  
 K= elevation  
 TG= length of tangent  
 123.345= length of straight line (m)

### Legend for symbols

SPT= sounding, terminated at cobble, boulder, or bedrock contact.  
 y. 2016= year of investigation, location of 2016 soundings not accurate  
 1, 217= point number  
 y. 2017  
 TR02= year of investigation point number



### LEGEND, PROFILE

- Vertical railway alignment (S=radius of vertical curve, KT=elevation point)
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- Elevation figures
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- Designed track elevation (the running surface of the rail)
- Existing ground elevation
- Km stationing

### Horizontal alignment, schematic

SR= length of straight line (m)  
 R= curve radius (m)  
 KR= length of curve (m)  
 D= track cant (mm)  
 Lk= length of transition curve (m)

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**Version 15.12.2017**

Revision	Explanation	Date	Designer	Date	Acceptor

Customer	<b>MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS</b>	Project	Railway Project
Design phase	Pre-engineering, Phase 2	Content	Track map and profile
Supplier	<b>VR TRACK</b>	Km	Km 81+0800 - 83+0200

Drawer	15.12.2017	UPa	Scale	map 1:2000, profile 1:2000 / 1:200
Designer	15.12.2017	HMa / MLo	Coordinate system	WGS 84 UTM 21 S, Local orthometric height
Supervisor	15.12.2017	SVI	Elevation reference system	Railway line
Accept.			Montevideo - Paso de Los Toros	
Owner acc.			Archive	Type Number Rev. Sheet Sheets total

59 / 195



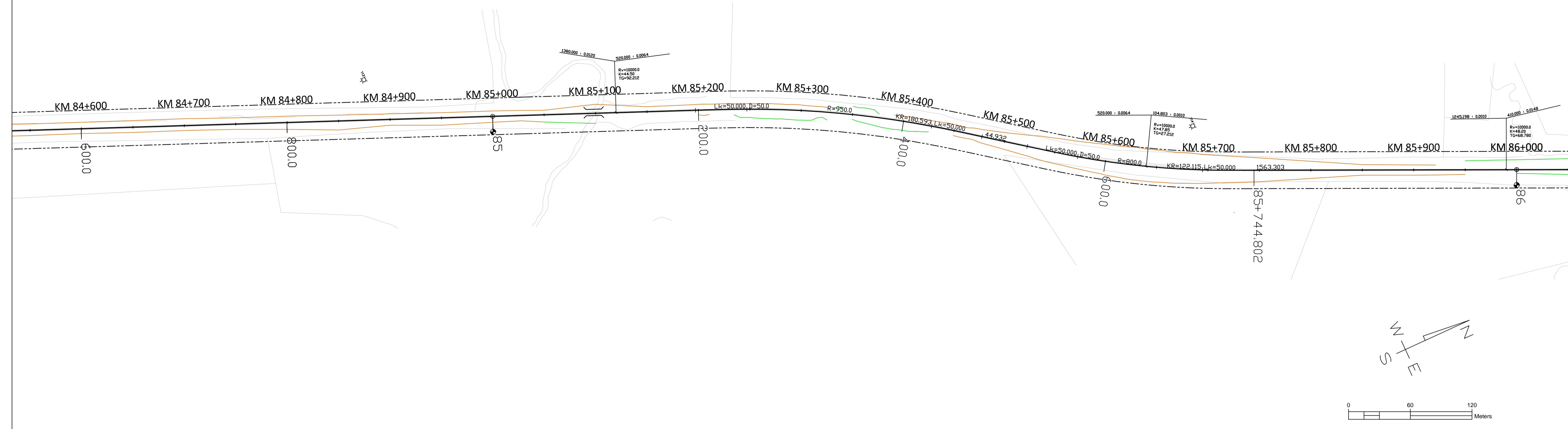




← Montevideo

Paso de Los Toros →

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**LEGEND, MAP**

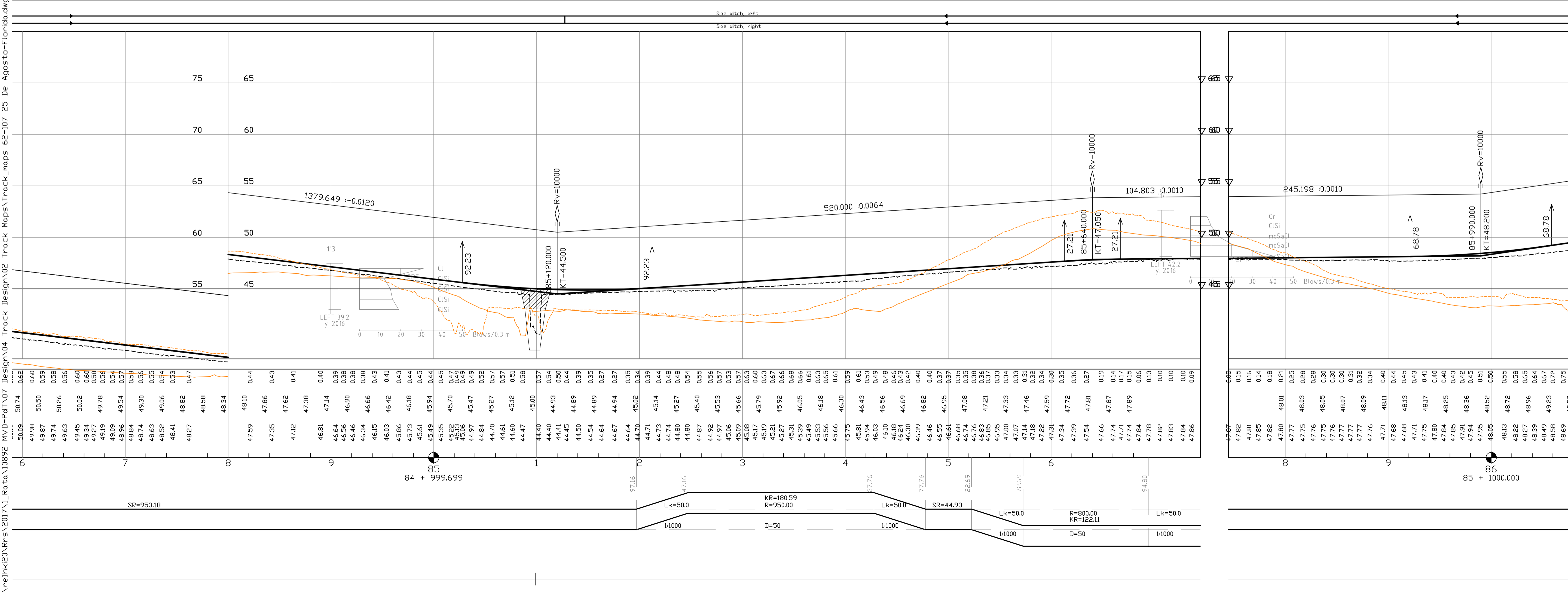
- New railway alignment
- Existing railway alignment (not in the Railway Project scope)
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- Secondary Side Tracks - Horizontal geometry pre-designed (Secondary side tracks and their switches will be designed and constructed based on Appendix Q)
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- Road closing down
- Limit of designed soil cut (open cut or cut with a retaining wall)
- Limit of designed embankment fill, not including possible ditch
- Existing stations or passenger platforms
- New passenger platforms
- Symbols
- Railway bridge or underpass, Flyover
- Culvert
- Level crossing

**Track alignment with design geometry figures**

R= curve radius (m)  
 KR= length of curve (m)  
 D= track cant (mm)  
 Lk= length of transition curve (m)  
 Rv= radius of vertical curve  
 K= elevation  
 TG= length of tangent  
 123.345= length of straight line (m)

**SPT-sounding, terminated at cobble, boulder, or bedrock contact.**  
 y. 2016= year of investigation, location of 2016 soundings not accurate  
 1, 217= point number

**Disturbed Sample**  
 y. 2017= year of investigation  
 TR02= point number



**LEGEND, PROFILE**

- Vertical railway alignment (S=radius of vertical curve, KT=elevation point)
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- Difference between existing ground and designed track elevation
- Designed track elevation (the running surface of the rail)
- Existing ground elevation
- Km stationing
- Horizontal alignment, schematic
- SR= length of straight line (m)
- R= curve radius (m)
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**Version 15.12.2017**

Revision	Explanation	Date	Designer	Date	Acceptor
7807					
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**MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS**

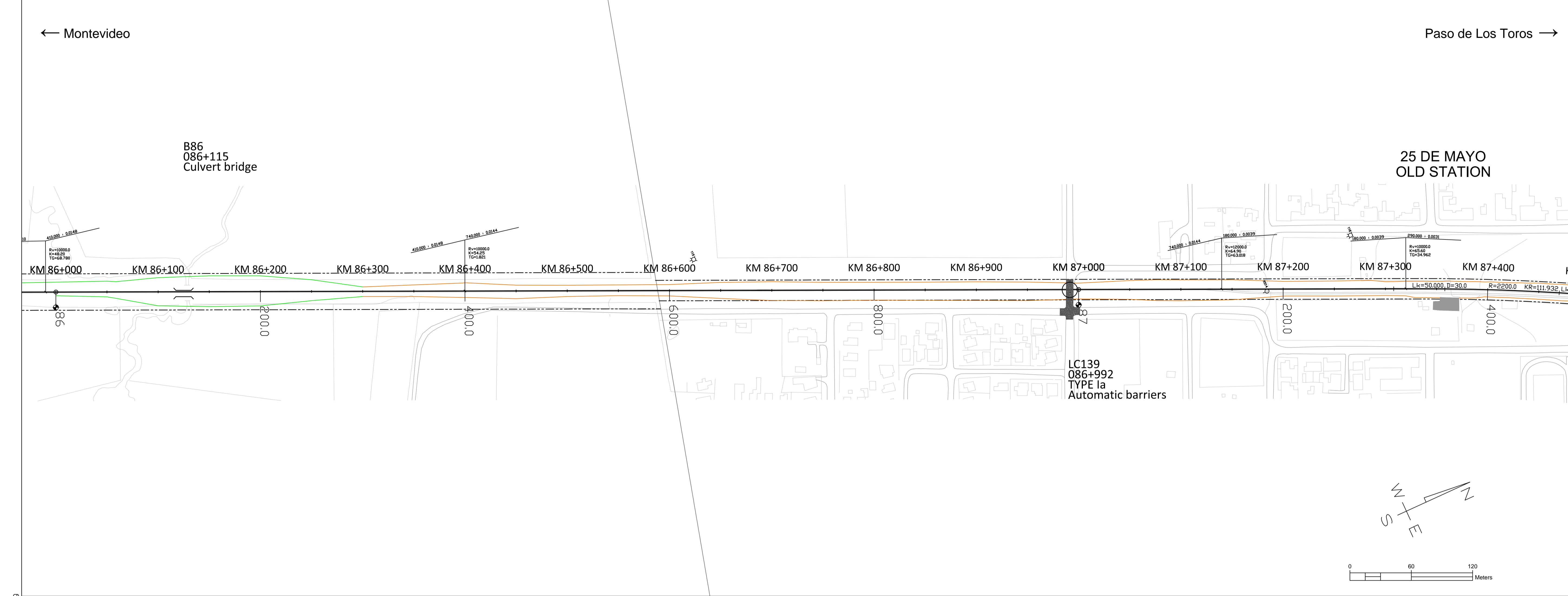
**VR TRACK**

Project: Railway Project  
 Design phase: Pre-engineering, Phase 2  
 Content: Track map and profile  
 Km 84+0600 - 86+0000

Scale: map 1:2000, profile 1:2000 / 1:200  
 Coordinate system: WGS 84 UTM 21 S, Local orthometric height  
 Railway line: Montevideo - Paso de Los Toros

Rev. Sheet Sheets total  
 61 195





### LEGEND, MAP

- New railway alignment
- Existing railway alignment (not in the Railway Project scope)
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- Existing stations or passenger platforms
- New passenger platforms

### Symbols

- BXXX BXXX: Railway bridge or underpass, Flyover
- CXXX: Culvert
- LCXXX: Level crossing

### Track alignment with design geometry figures

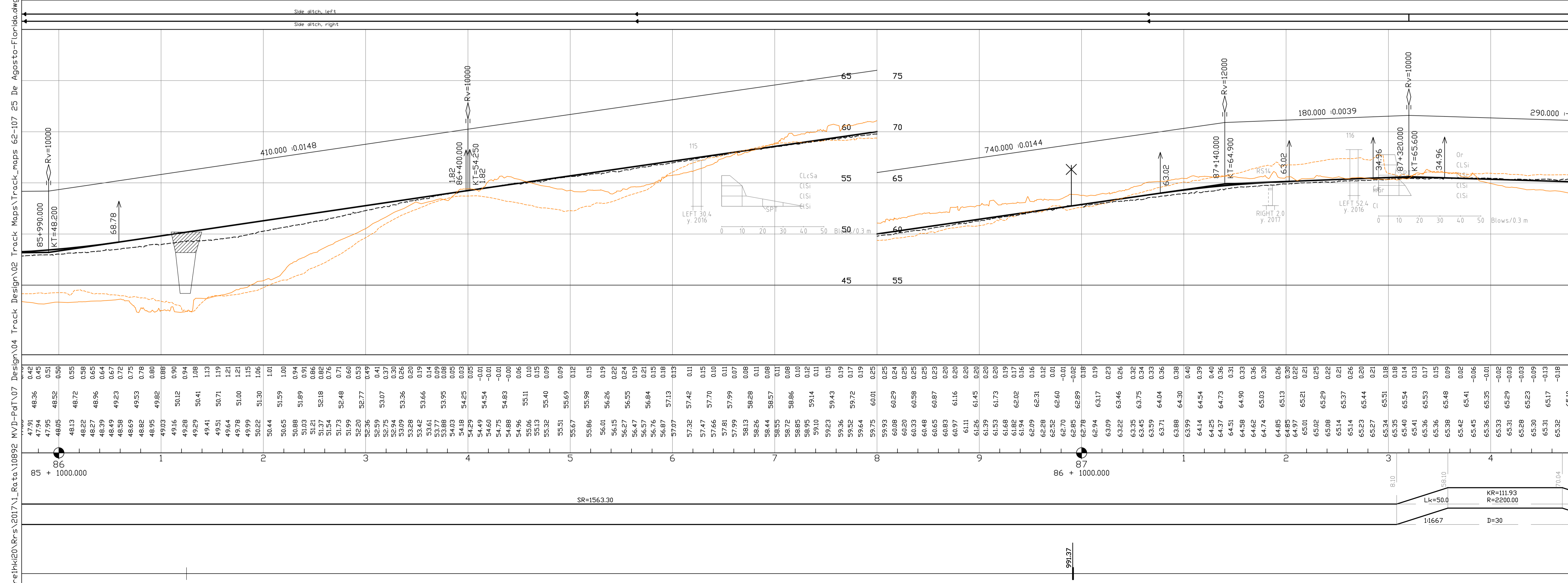
- R= curve radius (m)
- KR= length of curve (m)
- D= track cant (mm)
- Lk= length of transition curve (m)
- Rv= radius of vertical curve
- K= elevation
- TG= length of tangent
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### SPT-sounding, terminated at cobble, boulder, or bedrock contact.

- y. 2016 = year of investigation, location of 2016 soundings not accurate
- 1, 217= point number

### Disturbed Sample

- y. 2017 = year of investigation
- TR02= point number



### LEGEND, PROFILE

- Vertical railway alignment (S=radius of vertical curve, KT=elevation point)
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- Elevation figures
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### Horizontal alignment, schematic

- SR= length of straight line (m)
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### Version 15.12.2017

Revision	Explanation	Date	Designer	Date	Acceptor
1					

Customer	MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS	Project	Railway Project
Design phase	Pre-engineering, Phase 2	Content	Track map and profile
Supplier	VR TRACK	Content	Km 86+0000 - 87+0400

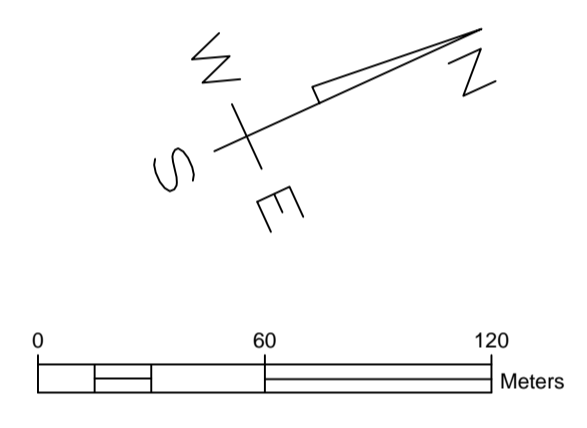
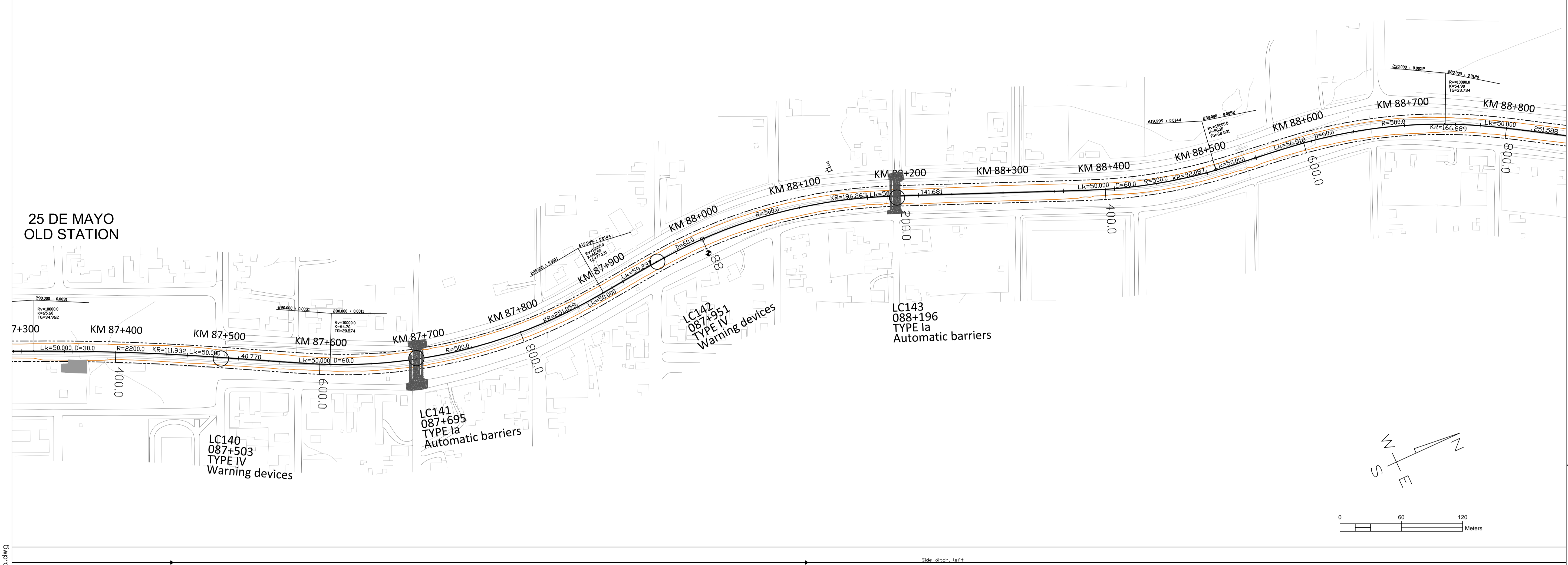
Drawer	15.12.2017	UPa	Scale	map 1:2000, profile 1:2000 / 1:200
Designer	15.12.2017	HM/a / ML/e	Coordinate system	WGS 84 UTM 21 S, Local orthometric height
Supervisor	15.12.2017	SVI	Elevation reference system	Railway line
Accept.			Montevideo - Paso de Los Toros	Archive Type Number Rev. Sheet Sheets total
Owner acc.				62 195



← Montevideo

Paso de Los Toros →

25 DE MAYO OLD STATION



LEGEND, MAP

- New railway alignment
- Existing railway alignment (not in the Railway Project scope)
- Railway Area borderline
- Secondary Side Tracks - Horizontal geometry pre-designed (Secondary side tracks and their switches will be designed and constructed based on Appendix Q)
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- Modification needed to the property access
- Affected parallel roads and streets and maintenance roads
- Road closing down
- Limit of designed soil cut (open cut or cut with a retaining wall)
- Limit of designed embankment fill, not including possible ditch
- Existing stations or passenger platforms
- New passenger platforms
- Symbols
- Railway bridge or underpass, Flyover
- Culvert
- Level crossing
- Track alignment with design geometry figures  
 R= curve radius (m)  
 KR= length of curve (m)  
 D= track cant (mm)  
 Lk= length of transition curve (m)  
 RV= radius of vertical curve  
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- SPT-sounding, terminated at cobble, boulder, or bedrock contact.  
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 1, 217= point number
- Disturbed Sample  
 y. 2017= year of investigation  
 TR02= point number

LEGEND, PROFILE

- Vertical railway alignment (S=radius of vertical curve, KT=elevation point)
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- Elevation figures  
 Difference between existing ground and designed track elevation  
 Designed track elevation (the running surface of the rail)  
 Existing ground elevation
- Km stationing
- Horizontal alignment, schematic  
 SR= length of straight line (m)  
 R= curve radius (m)  
 KR= length of curve (m)  
 D= track cant (mm)  
 Lk= length of transition curve (m)

Version 15.12.2017

Revision	Explanation	Date	Designer	Date	Acceptor
Customer	Railway Project				
Design phase	Pre-engineering, Phase 2				
Content	Track map and profile				
Supplier					
Supplier	Km 87+0400 - 88+0800				
Drawer	15.12.2017	UPa	Scale	map 1:2000, profile 1:2000 / 1:200	
Designer	15.12.2017	HMa / MLe	Coordinate system	WGS 84 UTM 21 S, Local orthometric height	
Supervisor	15.12.2017	SVI	Elevation reference system	Railway line	
Supervisor	Montevideo - Paso de Los Toros				
Accept.			Archive	Type	Number
Owner acc.			Rev.	Sheet	Sheets total
				63	195

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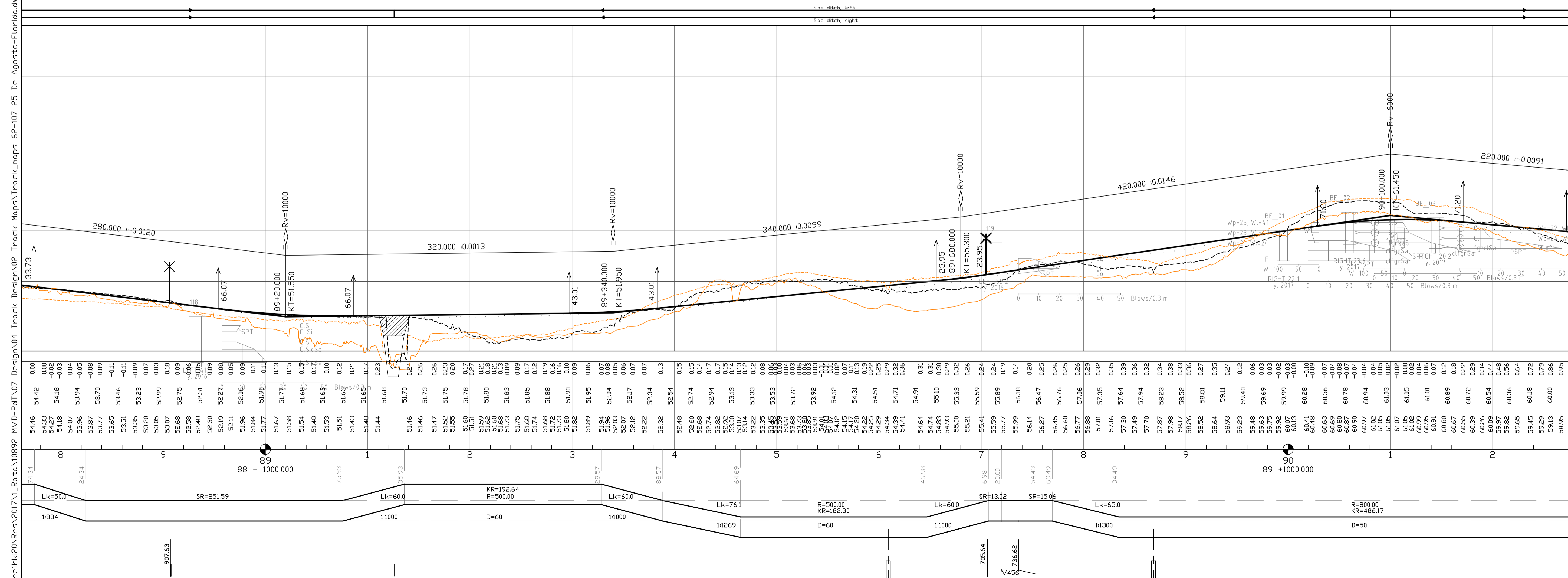


### LEGEND, MAP

- New railway alignment
- Existing railway alignment (not in the Railway Project scope)
- Railway Area borderline
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- Existing stations or passenger platforms
- New passenger platforms
- Symbols
- Railway bridge or underpass, Flyover
- Culvert
- Level crossing
- Track alignment with design geometry figures
  - R= curve radius (m)
  - KR= length of curve (m)
  - D= track cant (mm)
  - Lk= length of transition curve (m)
  - Rv= radius of vertical curve
  - K= elevation
  - TG= length of tangent
  - 123.345= length of straight line (m)

SPT-sounding, terminated at cobble, boulder, or bedrock contact.  
 y. 2016= year of investigation, location of 2016 soundings not accurate  
 1, 217= point number

Disturbed Sample  
 y. 2017= year of investigation  
 TR02= point number



### LEGEND, PROFILE

- Vertical railway alignment (S=radius of vertical curve, KT=elevation point)
- Ground surface
- Ground elevation on the left side of track centre line (-20m) and on the right side of track centre line (+20m)
- Culvert location (elevation will be designed in detailed design phase)
- Level crossing
- Overpass bridge, railway or underpass bridge
- Elevation figures
  - Difference between existing ground and designed track elevation
  - Designed track elevation (the running surface of the rail)
  - Existing ground elevation
- Km stationing
- Horizontal alignment, schematic
  - SR= length of straight line (m)
  - R= curve radius (m)
  - KR= length of curve (m)
  - D= track cant (mm)
  - Lk= length of transition curve (m)

**Version 15.12.2017**

Revision	Explanation	Date	Designer	Date	Acceptor
1					

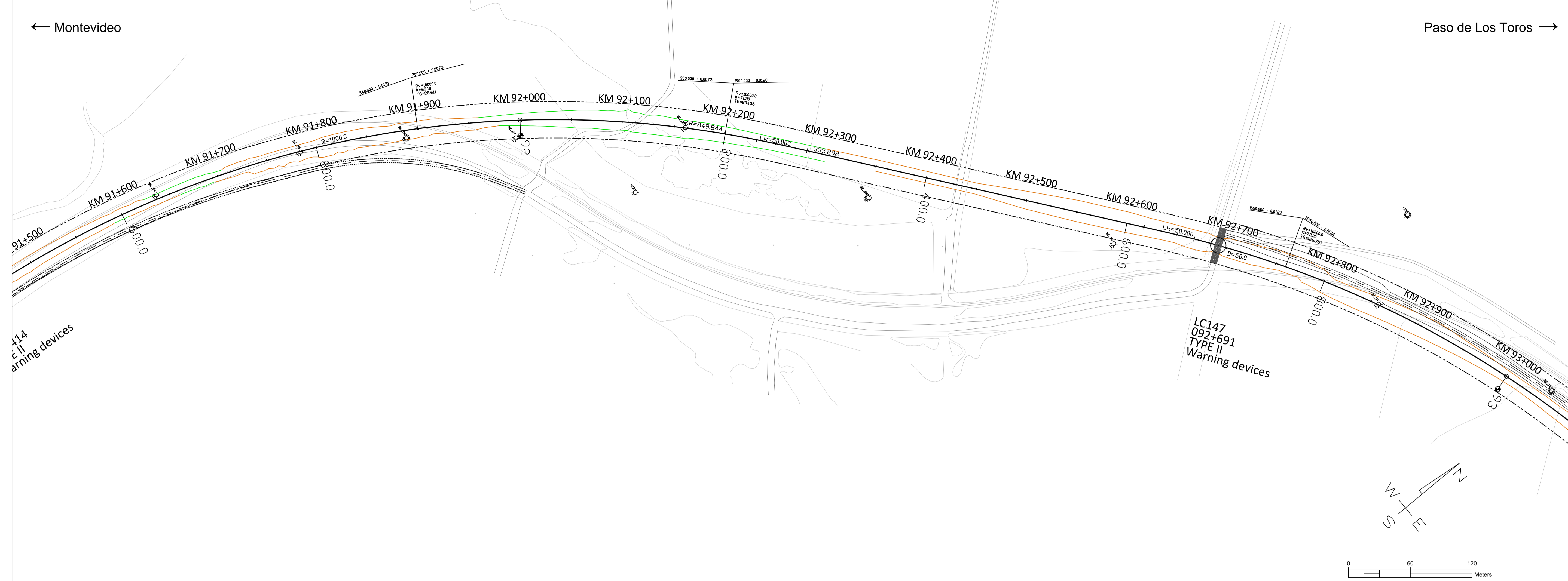
Customer	MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS	Project	Railway Project
Design phase	Pre-engineering, Phase 2	Content	Track map and profile
Supplier	TRACK		Km 88+0800 - 90+0200

Drawer	15.12.2017	UPa	Scale	map 1:2000, profile 1:2000 / 1:200
Designer	15.12.2017	HMa / MLe	Coordinate system	WGS 84 UTM 21 S, Local orthometric height
Supervisor	15.12.2017	SVI	Elevation reference system	Railway line
Accept.			Montevideo - Paso de Los Toros	Archive Type Number Rev. Sheet Sheets total
Owner acc.				64 195









### LEGEND, MAP

- New railway alignment
- Existing railway alignment (not in the Railway Project scope)
- Railway Area borderline
- Secondary Side Tracks - Horizontal geometry pre-designed (Secondary side tracks and their switches will be designed and constructed based on Appendix Q)
- Removal track
- Street or road modification area in level crossings or underpasses/flyovers
- Modification needed to the property access
- Affected parallel roads and streets and maintenance roads
- Road closing down
- Limit of designed soil cut (open cut or cut with a retaining wall)
- Limit of designed embankment fill, not including possible ditch
- Existing stations or passenger platforms
- New passenger platforms

### Symbols

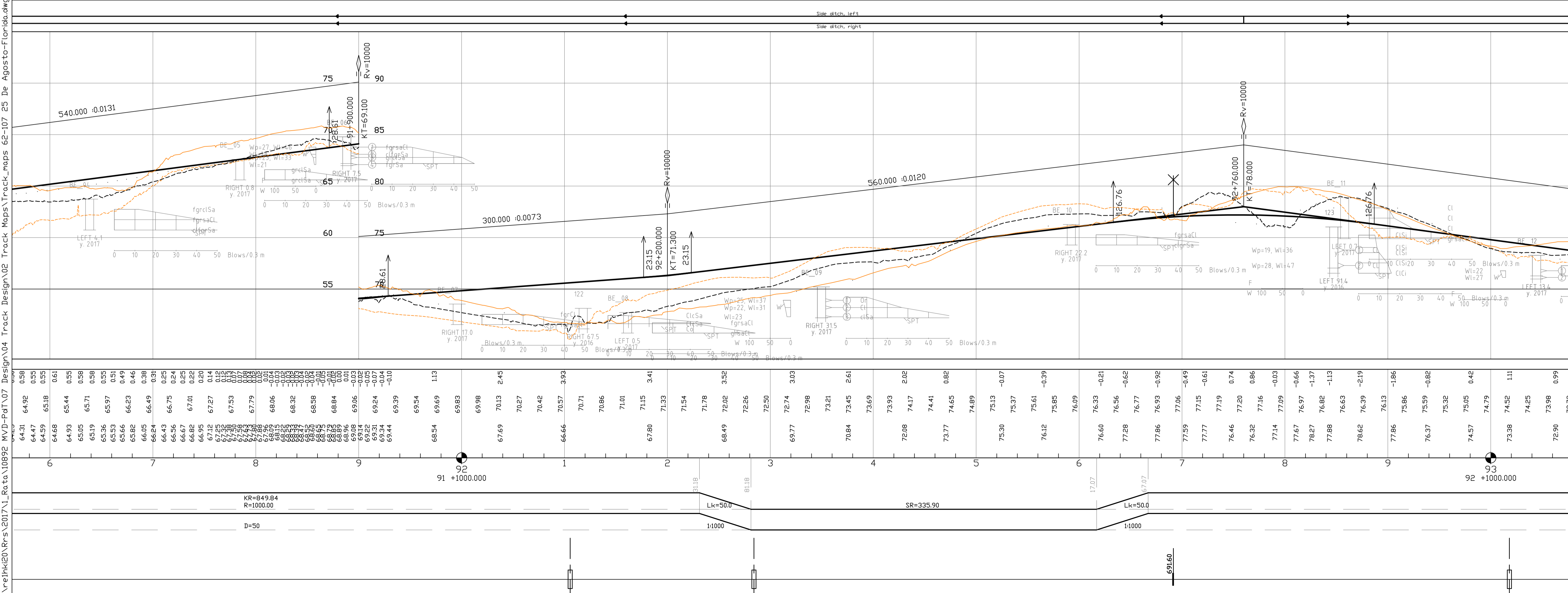
- BXXX BXXX: Railway bridge or underpass, Flyover
- CXXX: Culvert
- LCXXX: Level crossing

### Track alignment with design geometry figures

- R= curve radius (m)
- KR= length of curve (m)
- D= track cant (mm)
- Lk= length of transition curve (m)
- Rv= radius of vertical curve
- K= elevation
- TG= length of tangent
- 123.345= length of straight line (m)

### Sounding and Sample Symbols

- y. 2016: SPT-sounding, terminated at cobble, boulder, or bedrock contact. 1, 217= year of investigation, location of 2016 soundings not accurate point number
- y. 2017: Disturbed Sample. TR02= year of investigation point number



### LEGEND, PROFILE

- Vertical railway alignment (S=radius of vertical curve, KT=elevation point)
- Ground surface
- Ground elevation on the left side of track centre line (-20m) and on the right side of track centre line (+20m)
- Culvert location (elevation will be designed in detailed design phase)
- Level crossing
- Overpass bridge, railway or underpass bridge
- Elevation figures
- Difference between existing ground and designed track elevation
- Designed track elevation (the running surface of the rail)
- Existing ground elevation
- Km stationing

### Horizontal alignment, schematic

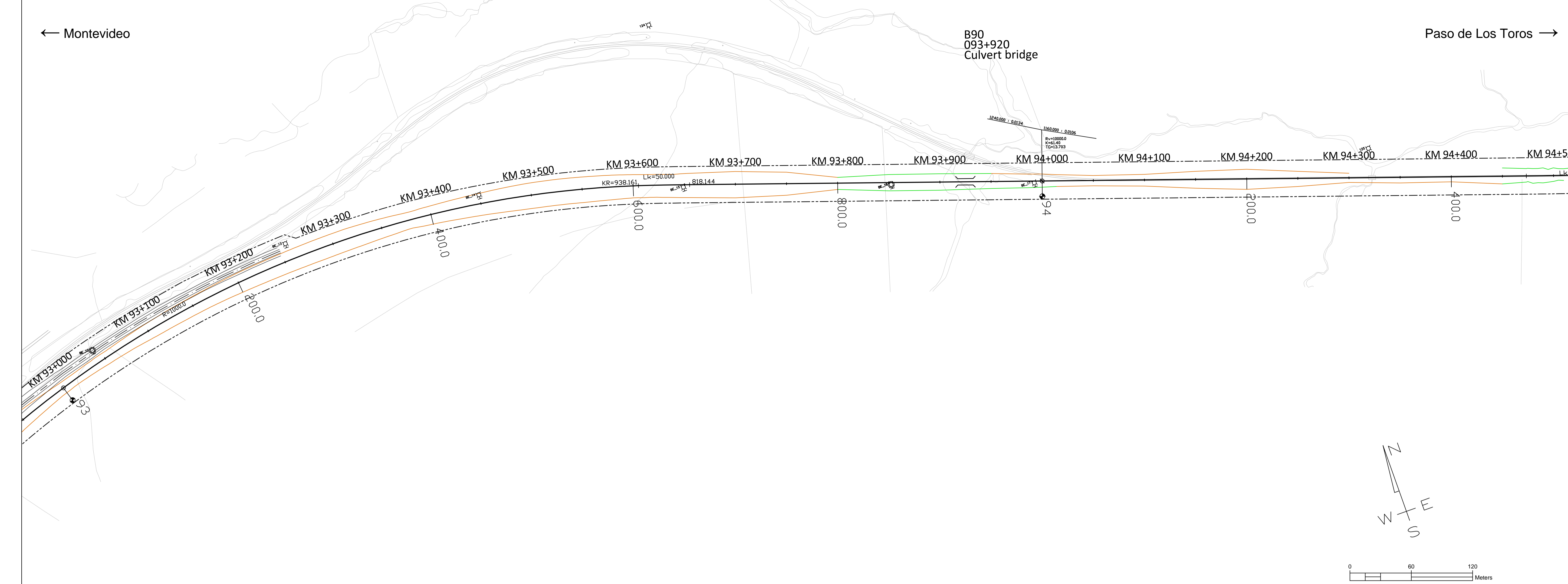
- SR= length of straight line (m)
- R= curve radius (m)
- KR= length of curve (m)
- D= track cant (mm)
- Lk= length of transition curve (m)

### Version 15.12.2017

Revision	Explanation	Date	Designer	Date	Acceptor
Customer	Railway Project				
Design phase	Pre-engineering, Phase 2				
Content	Track map and profile				
Supplier					
Drawer	15.12.2017	UPa	Scale	map 1:2000, profile 1:2000 / 1:200	
Designer	15.12.2017	HMa / MLe	Coordinate system	WGS 84 UTM 21 S, Local orthometric height	
Supervisor	15.12.2017	SVI	Elevation reference system	Railway line	
Accept.			Archive	Type	Number
Owner acc.			Rev.	Sheet	Sheets total

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**LEGEND, MAP**

- New railway alignment
- Existing railway alignment (not in the Railway Project scope)
- Railway Area borderline
- Secondary Side Tracks - Horizontal geometry pre-designed (Secondary side tracks and their switches will be designed and constructed based on Appendix Q)
- Removal track
- Street or road modification area in level crossings or underpasses/flyovers
- Modification needed to the property access
- Affected parallel roads and streets and maintenance roads
- Road closing down
- Limit of designed soil cut (open cut or cut with a retaining wall)
- Limit of designed embankment fill, not including possible ditch
- Existing stations or passenger platforms
- New passenger platforms

**Symbols**

- BXXX BXXX: Railway bridge or underpass, Flyover
- CXXX: Culvert
- LCXXX: Level crossing

**Track alignment with design geometry figures**

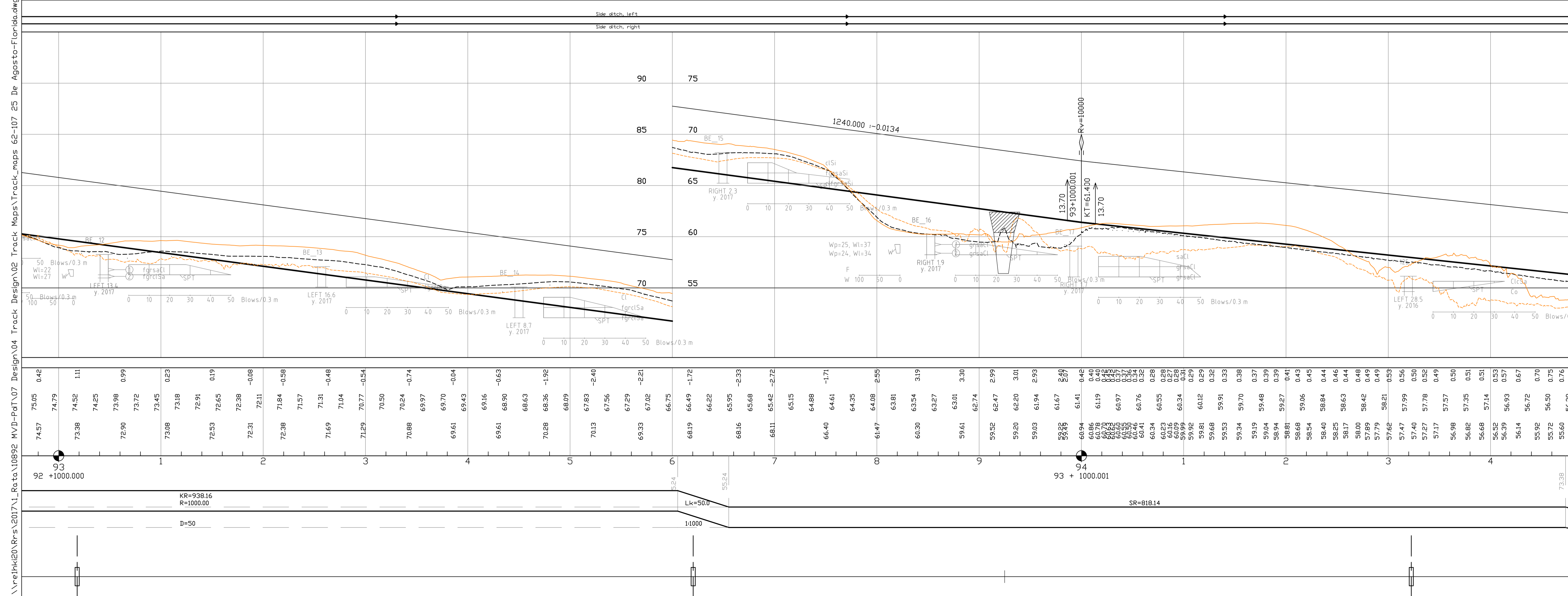
- R= curve radius (m)
- KR= length of curve (m)
- D= track cant (mm)
- Lk= length of transition curve (m)
- RV= radius of vertical curve
- K= elevation
- TG= length of tangent
- 123.345= length of straight line (m)

**SPT-sounding, terminated at cobble, boulder, or bedrock contact.**

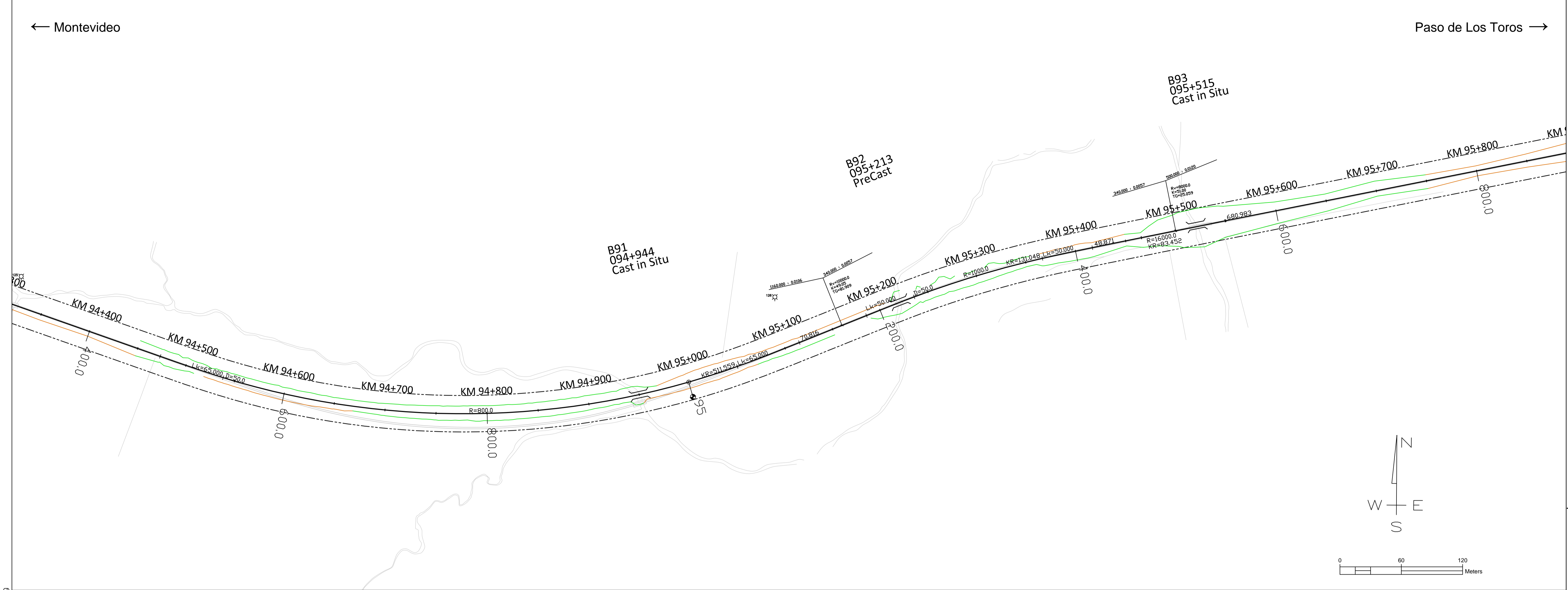
- y. 2016= year of investigation, location of 2016 soundings not accurate
- 1, 217= point number

**Disturbed Sample**

- y. 2017= year of investigation
- TR02= point number







### LEGEND, MAP

- New railway alignment
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- Modification needed to the property access
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- Road closing down
- Limit of designed soil cut (open cut or cut with a retaining wall)
- Limit of designed embankment fill, not including possible ditch
- Existing stations or passenger platforms
- New passenger platforms

### Symbols

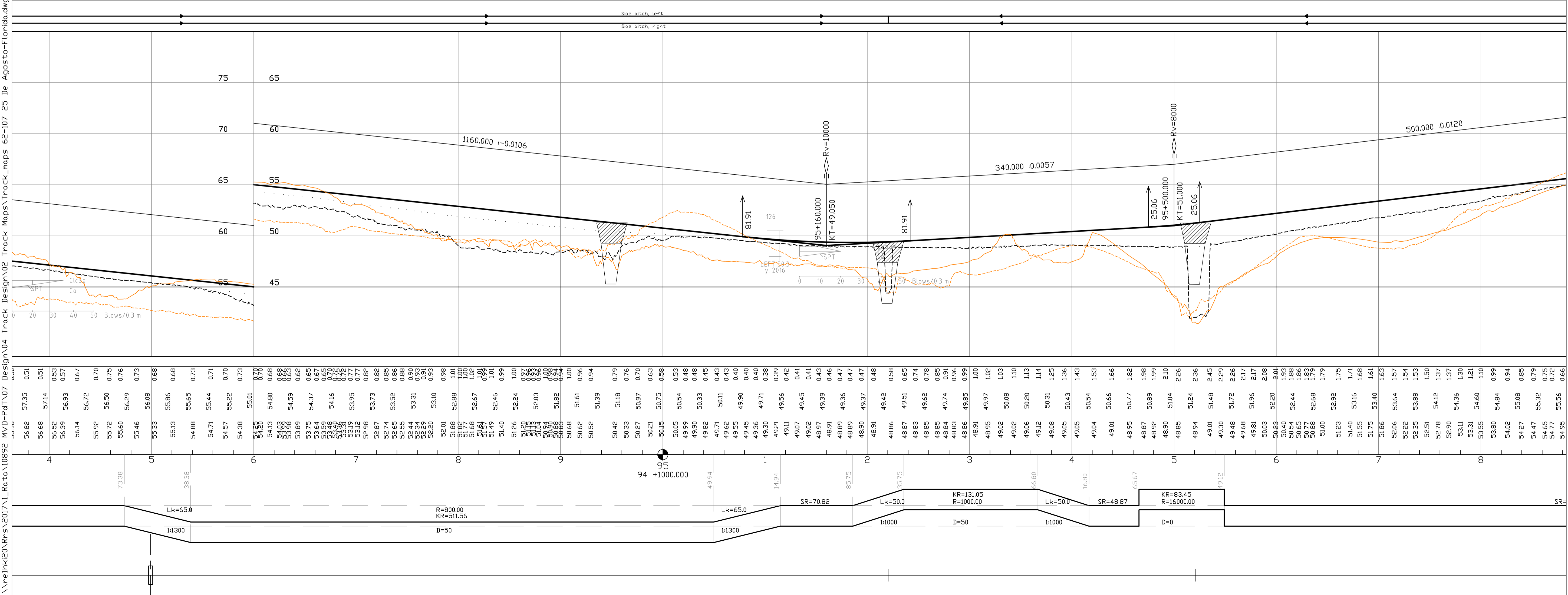
- BXXX BXXX: Railway bridge or underpass, Flyover
- CXXX: Culvert
- LCXXX: Level crossing

### Track alignment with design geometry figures

R= curve radius (m)  
 KR= length of curve (m)  
 D= track cant (mm)  
 Lk= length of transition curve (m)  
 Rv= radius of vertical curve  
 K= elevation  
 TG= length of tangent  
 123.345= length of straight line (m)

SPT= sounding, terminated at cobble, boulder, or bedrock contact.  
 y. 2016= year of investigation, location of 2016 soundings not accurate  
 1, 217= point number

Disturbed Sample  
 y. 2017= year of investigation  
 TR02= point number



### LEGEND, PROFILE

- Vertical railway alignment (S=radius of vertical curve, KT=elevation point)
- Ground surface
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- Level crossing
- Overpass bridge, railway or underpass bridge
- Elevation figures
- Difference between existing ground and designed track elevation
- Designed track elevation (the running surface of the rail)
- Existing ground elevation
- Km stationing

### Horizontal alignment, schematic

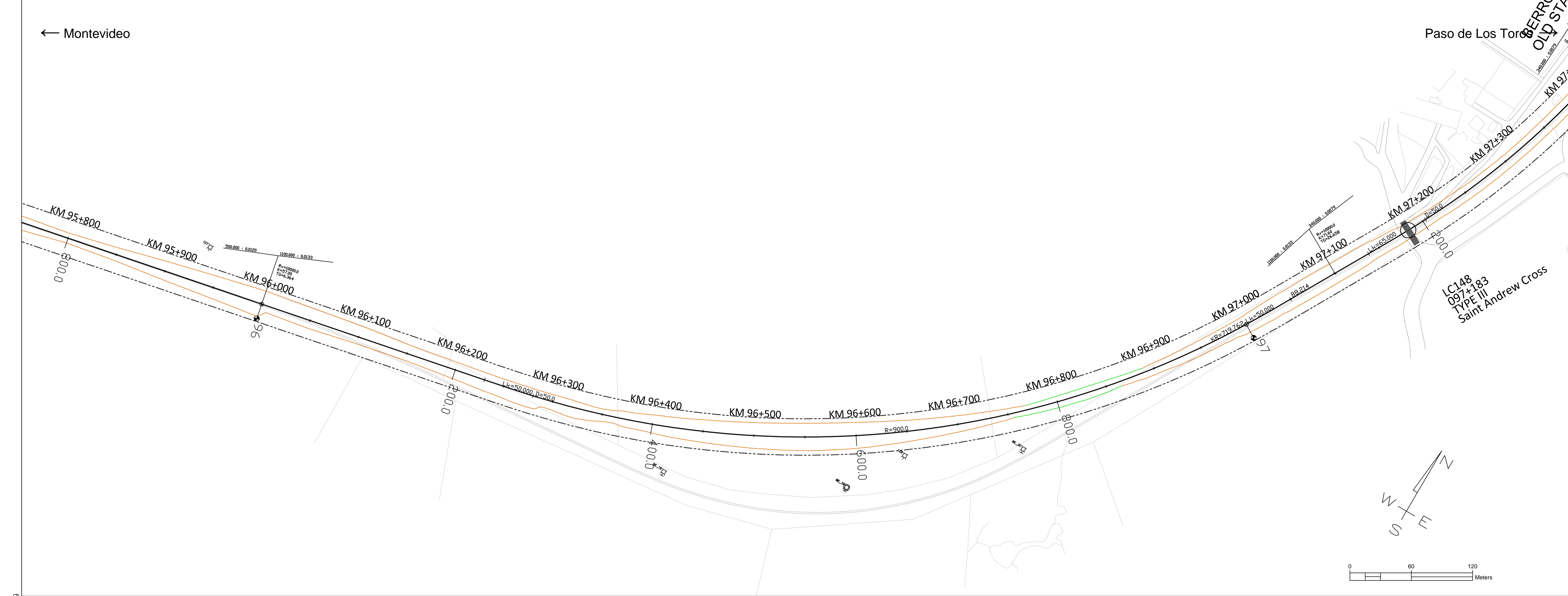
SR= length of straight line (m)  
 R= curve radius (m)  
 KR= length of curve (m)  
 D= track cant (mm)  
 Lk= length of transition curve (m)

### Version 15.12.2017

Revision	Explanation	Date	Designer	Date	Acceptor
1	Initial design	15.12.2017	UPa		
2	Revised design	15.12.2017	HM/a / MLe		
3	Final design	15.12.2017	SVI		

Customer	MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS	Project	Railway Project
Design phase	Pre-engineering, Phase 2	Content	Track map and profile
Supplier	VR TRACK	Content	Km 94+0400 - 95+0800
Drawer	15.12.2017 UPa	Scale	map 1:2000, profile 1:2000 / 1:200
Designer	15.12.2017 HM/a / MLe	Coordinate system	WGS 84 UTM 21 S, Local orthometric height
Supervisor	15.12.2017 SVI	Railway line	Montevideo - Paso de Los Toros
Accept.		Archive	Type Number Rev. Sheet Sheets total
Owner acc.			68 195





### LEGEND, MAP

- New railway alignment
- Existing railway alignment (not in the Railway Project scope)
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- Modification needed to the property access
- Affected parallel roads and streets and maintenance roads
- Road closing down
- Limit of designed soil cut (open cut or cut with a retaining wall)
- Limit of designed embankment fill, not including possible ditch
- Existing stations or passenger platforms
- New passenger platforms
- Symbols
- Railway bridge or underpass, Flyover
- Culvert
- Level crossing

### Track alignment with design geometry figures

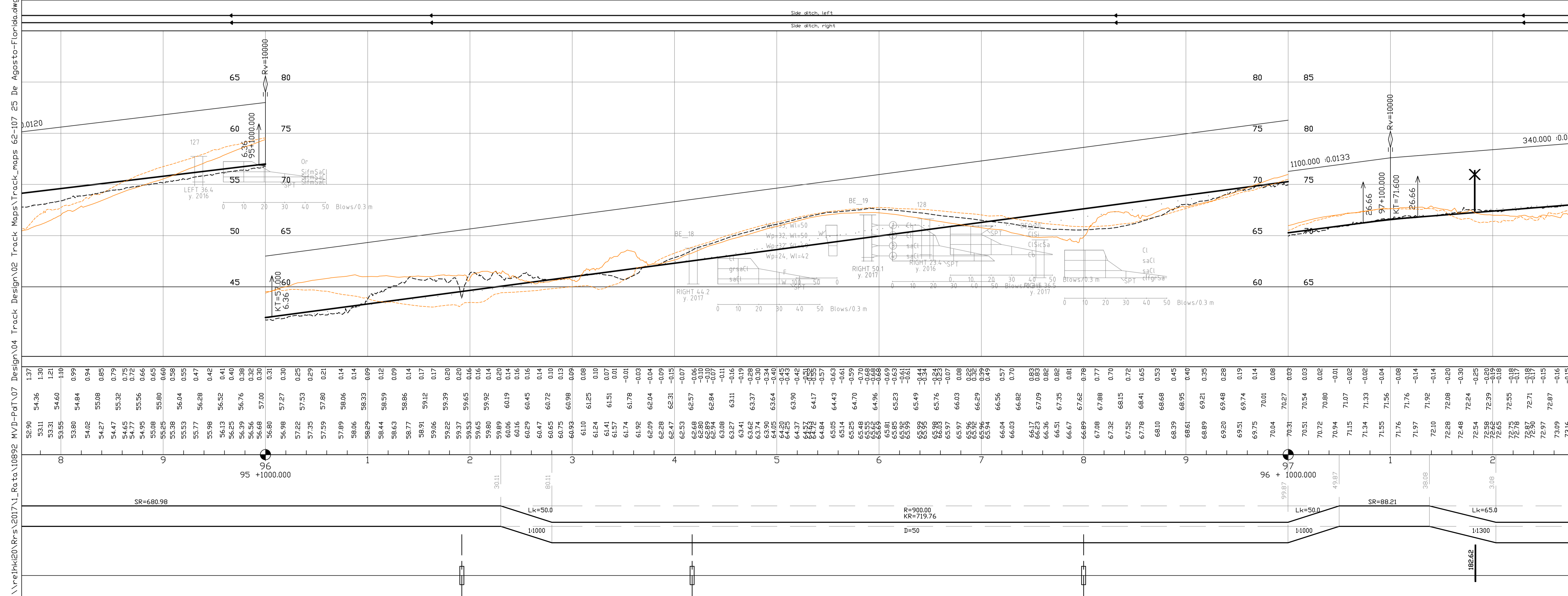
R= curve radius (m)  
 KR= length of curve (m)  
 D= track cant (mm)  
 Lk= length of transition curve (m)  
 Rv= radius of vertical curve  
 K= elevation  
 TG= length of tangent  
 123.345= length of straight line (m)

### LEGEND, PROFILE

- Vertical railway alignment (S=radius of vertical curve, KT=elevation point)
- Ground surface
- Ground elevation on the left side of track centre line (-20m) and on the right side of track centre line (+20m)
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- Level crossing
- Overpass bridge, railway or underpass bridge
- Elevation figures
- Difference between existing ground and designed track elevation
- Designed track elevation (the running surface of the rail)
- Existing ground elevation
- Km stationing

### Horizontal alignment, schematic

SR= length of straight line (m)  
 R= curve radius (m)  
 KR= length of curve (m)  
 D= track cant (mm)  
 Lk= length of transition curve (m)



Revision	Explanation	Date	Designer	Date	Acceptor
1	Initial design	15.12.2017	UPa		
2	Revised design	15.12.2017	HM/a / MLo		
3	Final design	15.12.2017	SVI		

**MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS**

**Version 15.12.2017**

Customer: **Railway Project**

Design phase: **Pre-engineering, Phase 2**

Content: **Track map and profile**

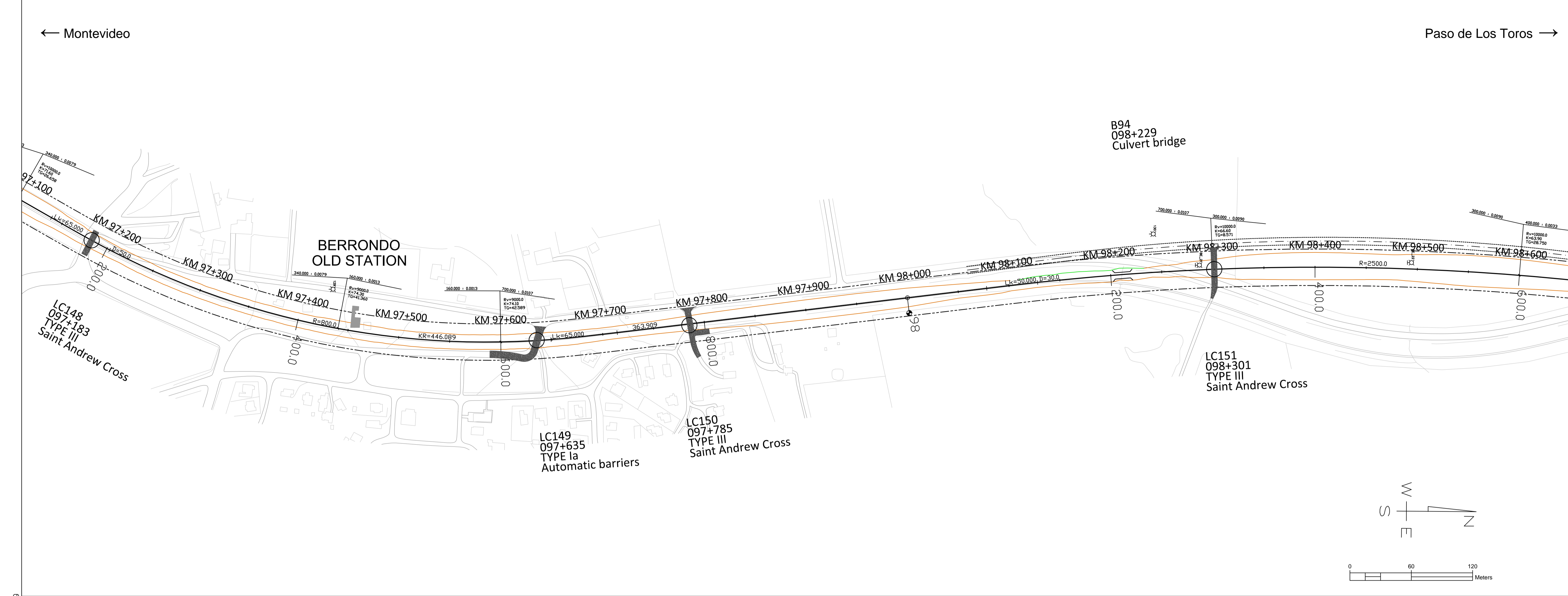
Supplier: **VR TRACK**

Project: **Km 95+0800 - 97+0200**

Drawer	Date	Scale	Coordinate system	Elevation reference system
UPa	15.12.2017	map 1:2000, profile 1:2000 / 1:200	WGS 84 UTM 21 S, Local orthometric height	
HM/a / MLo	15.12.2017			
SVI	15.12.2017			

Archive	Type	Number	Rev.	Sheet	Sheets total
				69	195





### LEGEND, MAP

- New railway alignment
- Existing railway alignment (not in the Railway Project scope)
- Railway Area borderline
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- Modification needed to the property access
- Affected parallel roads and streets and maintenance roads
- Road closing down
- Limit of designed soil cut (open cut or cut with a retaining wall)
- Limit of designed embankment fill, not including possible ditch
- Existing stations or passenger platforms
- New passenger platforms

### Symbols

- BXXX BXXX: Railway bridge or underpass, Flyover
- CXXX: Culvert
- LCXXX: Level crossing

### Track alignment with design geometry figures

- R= curve radius (m)
- KR= length of curve (m)
- D= track cant (mm)
- Lk= length of transition curve (m)
- Rv= radius of vertical curve
- K= elevation
- TG= length of tangent
- 123.345= length of straight line (m)

### SPT-sounding, terminated at cobble, boulder, or bedrock contact.

- y. 2016= year of investigation, location of 2016 soundings not accurate
- 1, 217= point number

### Disturbed Sample

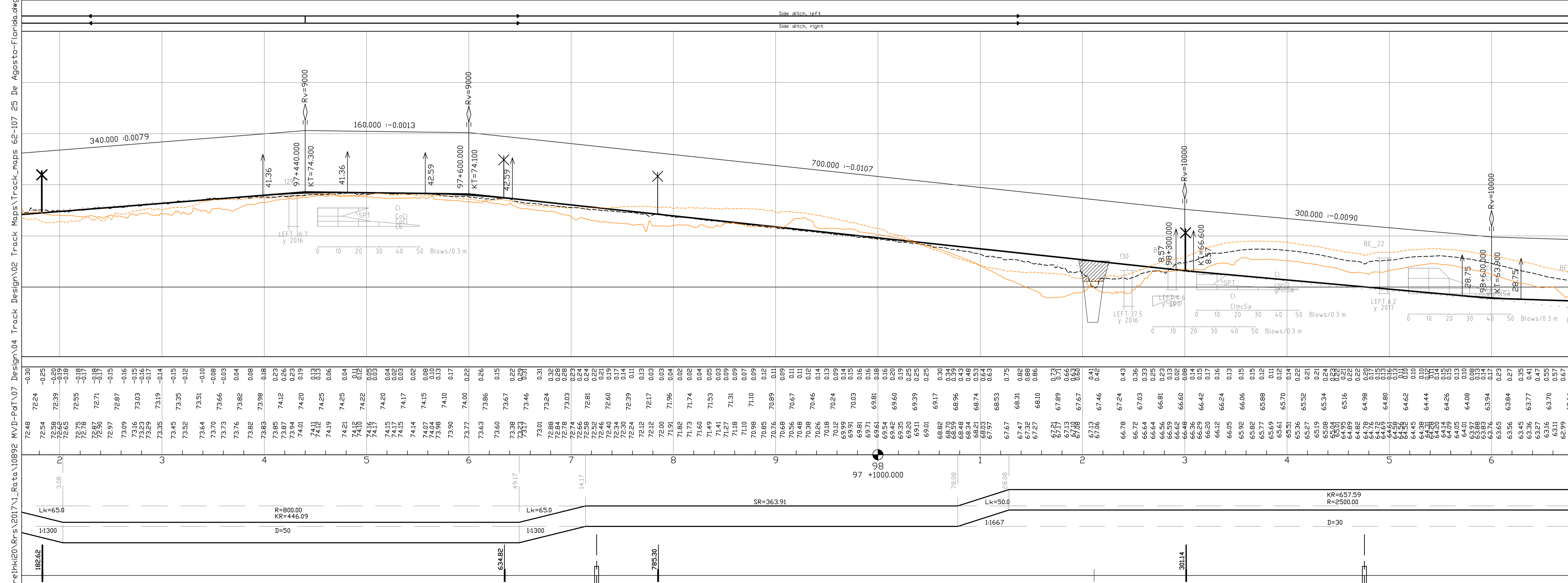
- y. 2017= year of investigation
- TR02= point number

### LEGEND, PROFILE

- Vertical railway alignment (S=radius of vertical curve, KT=elevation point)
- Ground surface
- Ground elevation on the left side of track centre line (-20m) and on the right side of track centre line (+20m)
- Culvert location (elevation will be designed in detailed design phase)
- Level crossing
- Overpass bridge, railway or underpass bridge
- Elevation figures
- Difference between existing ground and designed track elevation
- Designed track elevation (the running surface of the rail)
- Existing ground elevation
- Km stationing

### Horizontal alignment, schematic

- SR= length of straight line (m)
- R= curve radius (m)
- KR= length of curve (m)
- D= track cant (mm)
- Lk= length of transition curve (m)



### Version 15.12.2017

Revision	Explanation	Date	Designer	Date	Acceptor
1	Initial design	15.12.2017	UPa		
2	Revised design	15.12.2017	HM/a / MLe		
3	Final design	15.12.2017	SVI		

MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS

**VR TRACK**

Customer	Railway Project	
Design phase	Pre-engineering, Phase 2	
Content	Track map and profile	
Supplier	Km 97+0200 - 98+0600	
Drawer	15.12.2017	UPa
Designer	15.12.2017	HM/a / MLe
Supervisor	15.12.2017	SVI
Accept.		
Owner acc.		

Project	Railway Project	
Scale	map 1:2000, profile 1:2000 / 1:200	
Coordinate system	WGS 84 UTM 21 S, Local orthometric height	
Elevation reference system	Montevideo - Paso de Los Toros	
Archive	Type	Number
Rev.	Sheet	Sheets total
		70 / 195

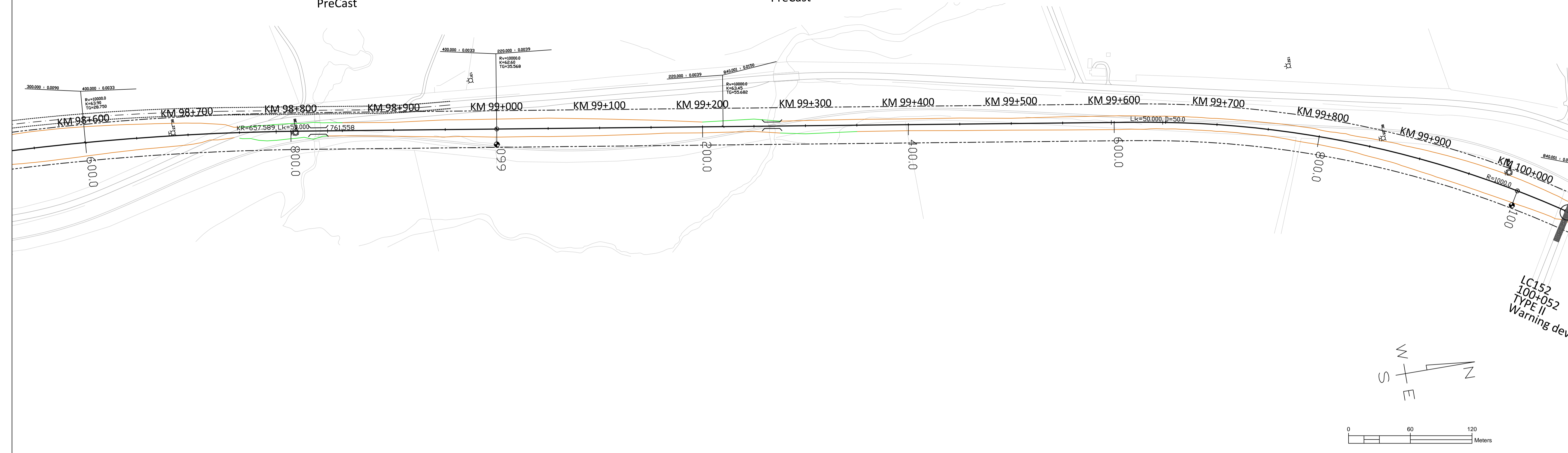


← Montevideo

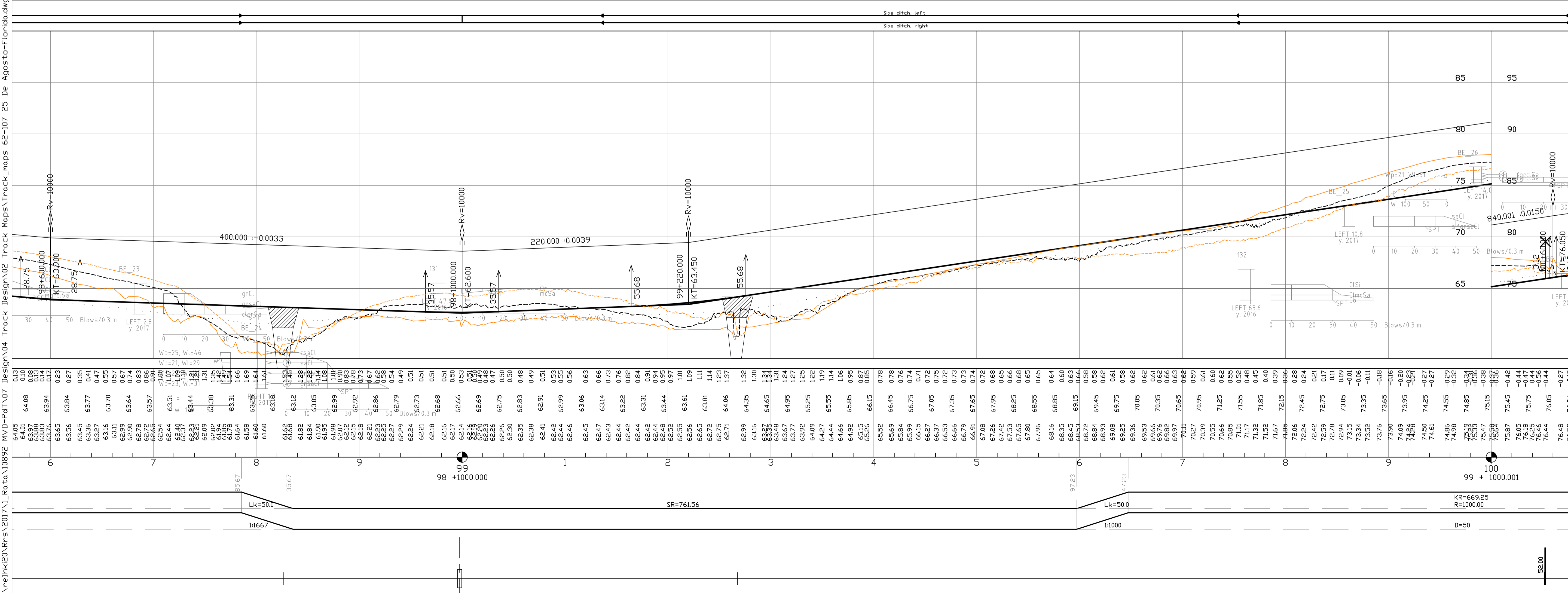
Paso de Los Toros →

B95  
098+845  
PreCast

B96  
099+277  
PreCast



- LEGEND, MAP**
- New railway alignment
  - Existing railway alignment (not in the Railway Project scope)
  - - - Railway Area borderline
  - Secondary Side Tracks - Horizontal geometry pre-designed (Secondary side tracks and their switches will be designed and constructed based on Appendix Q)
  - Removal track
  - ▬ Street or road modification area in level crossings or underpasses/flyovers
  - Modification needed to the property access
  - ▬ Affected parallel roads and streets and maintenance roads
  - ▬ Road closing down
  - ▬ Limit of designed soil cut (open cut or cut with a retaining wall)
  - ▬ Limit of designed embankment fill, not including possible ditch
  - ▬ Existing stations or passenger platforms
  - ▬ New passenger platforms
  - ▬ Symbols
  - BXXX BXXX Railway bridge or underpass, Flyover
  - CXXX Culvert
  - Level crossing
  - LC152 100+052 TYPE II Warning device
- Track alignment with design geometry figures**
- R= curve radius (m)
  - KR= length of curve (m)
  - D= track cant (mm)
  - Lk= length of transition curve (m)
  - Rv= radius of vertical curve
  - K= elevation
  - TG= length of tangent
  - 123.345= length of straight line (m)
- SPT-sounding, terminated at cobble, boulder, or bedrock contact.**
- y. 2016= year of investigation, location of 2016 soundings not accurate
  - 1, 217= point number
- Disturbed Sample**
- y. 2017= year of investigation
  - TR02= point number



- LEGEND, PROFILE**
- Vertical railway alignment (S=radius of vertical curve, KT=elevation point)
  - Ground surface
  - Ground elevation on the left side of track centre line (-20m) and on the right side of track centre line (+20m)
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  - Level crossing
  - Overpass bridge, railway or underpass bridge
  - Elevation figures
  - Difference between existing ground and designed track elevation
  - Designed track elevation (the running surface of the rail)
  - Existing ground elevation
  - Km stationing
- Horizontal alignment, schematic**
- SR= length of straight line (m)
  - R= curve radius (m)
  - KR= length of curve (m)
  - D= track cant (mm)
  - Lk= length of transition curve (m)

**Version 15.12.2017**

Revision	Explanation	Date	Designer	Date	Acceptor
6					
7					
8					
9					
10					

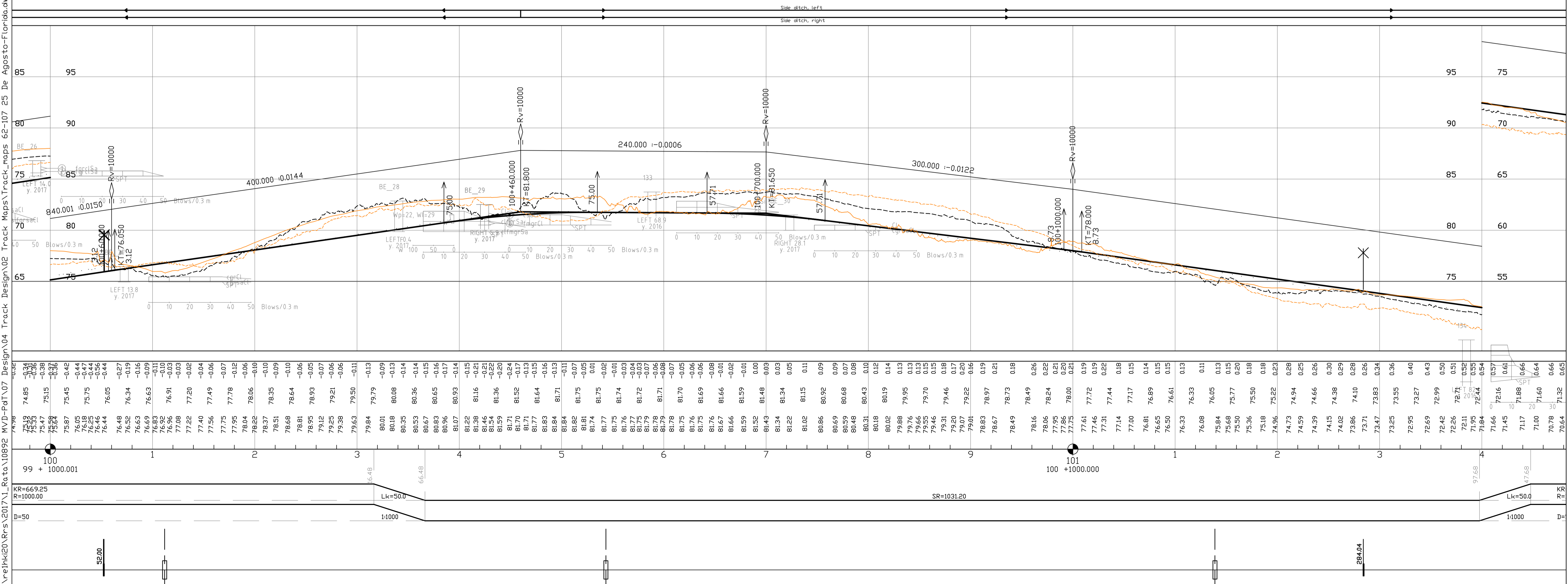
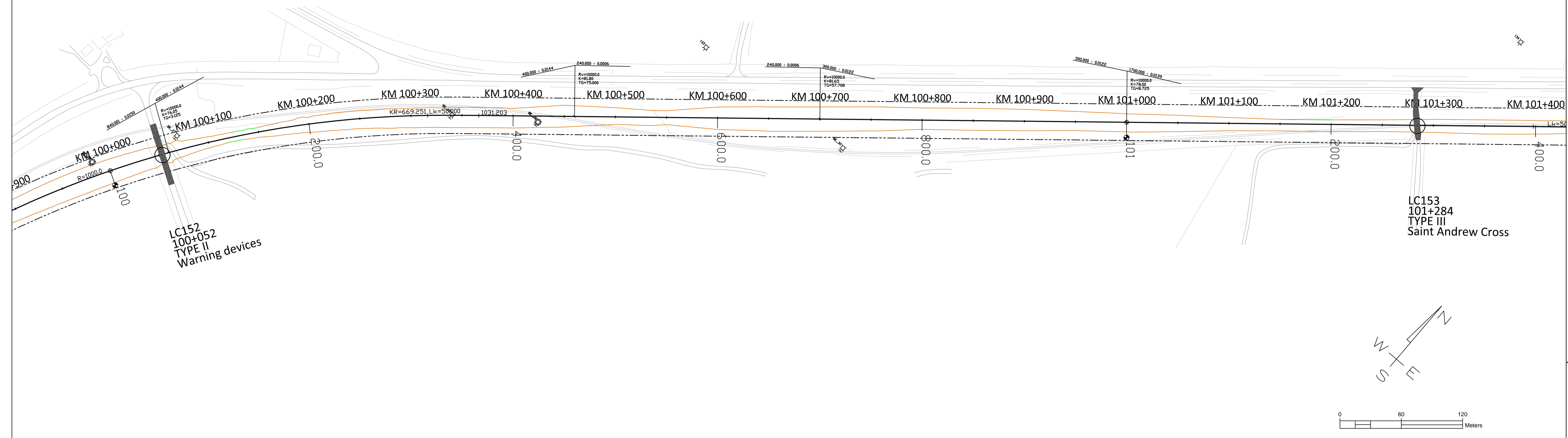
Customer	MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS	Project	Railway Project
Design phase	Pre-engineering, Phase 2	Content	Track map and profile
Supplier	<b>VR TRACK</b>	Scale	Km 98+0600 - 100+0000
Drawer	15.12.2017 UPa	Scale	map 1:2000, profile 1:2000 / 1:200
Designer	15.12.2017 HMa / MLe	Coordinate system	WGS 84 UTM 21 S, Local orthometric height
Supervisor	15.12.2017 SVI	Railway line	Montevideo - Paso de Los Toros
Accept.		Archive	Type Number Rev. Sheet Sheets total
Owner acc.			

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← Montevideo

Paso de Los Toros →



### LEGEND, MAP

- New railway alignment
- Existing railway alignment (not in the Railway Project scope)
- Railway Area borderline
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- Modification needed to the property access
- Affected parallel roads and streets and maintenance roads
- Road closing down
- Limit of designed soil cut (open cut or cut with a retaining wall)
- Limit of designed embankment fill, not including possible ditch
- Existing stations or passenger platforms
- New passenger platforms
- Symbols
- Railway bridge or underpass, Flyover
- Culvert
- Level crossing

### Track alignment with design geometry figures

R= curve radius (m)  
 KR= length of curve (m)  
 D= track cant (mm)  
 LK= length of transition curve (m)  
 RV= radius of vertical curve  
 K= elevation  
 TG= length of tangent  
 123.345= length of straight line (m)

SPT-sounding, terminated at cobble, boulder, or bedrock contact.  
 y. 2016= year of investigation, location of 2016 soundings not accurate  
 1, 217= point number

Disturbed Sample  
 y. 2017= year of investigation  
 TR02= point number

### LEGEND, PROFILE

Vertical railway alignment  
 (S=radius of vertical curve, KT=elevation point)

Ground surface

Ground elevation on the left side of track centre line (-20m) and on the right side of track centre line (+20m)

Culvert location (elevation will be designed in detailed design phase)

Level crossing

Overpass bridge, railway or underpass bridge

Elevation figures

Difference between existing ground and designed track elevation  
 Designed track elevation (the running surface of the rail)  
 Existing ground elevation

Km stationing

Horizontal alignment, schematic

SR= length of straight line (m)  
 R= curve radius (m)  
 KR= length of curve (m)  
 D= track cant (mm)  
 LK= length of transition curve (m)

### Version 15.12.2017

Revision	Explanation	Date	Designer	Date	Acceptor
1					

Customer	MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS	Project	Railway Project
Design phase	Pre-engineering, Phase 2	Content	Track map and profile
Supplier	VR TRACK	Content	Km 100+0000 - 101+0400

Drawer	15.12.2017	UPa	Scale	map 1:2000, profile 1:2000
Designer	15.12.2017	HMa / MLe	Coordinate system	WGS 84 UTM 21 S, Local orthometric height
Supervisor	15.12.2017	SVI	Elevation reference system	Railway line
Accept.			Railway line	Montevideo - Paso de Los Toros
Owner acc.			Archive	Type Number Rev. Sheet Sheets total

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### LEGEND, MAP

- New railway alignment
- Existing railway alignment (not in the Railway Project scope)
- Railway Area borderline
- Secondary Side Tracks - Horizontal geometry pre-designed (Secondary side tracks and their switches will be designed and constructed based on Appendix Q)
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- Limit of designed soil cut (open cut or cut with a retaining wall)
- Limit of designed embankment fill, not including possible ditch
- Existing stations or passenger platforms
- New passenger platforms

### Symbols

- BXXX BXXX: Railway bridge or underpass, Flyover
- CXXX: Culvert
- LCXXX: Level crossing

### Track alignment with design geometry figures

- R= curve radius (m)
- KR= length of curve (m)
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- 123.345= length of straight line (m)

### SPT-sounding, terminated at cobble, boulder, or bedrock contact.

- y. 2016= year of investigation, location of 2016 soundings not accurate
- 1, 217= point number

### Disturbed Sample

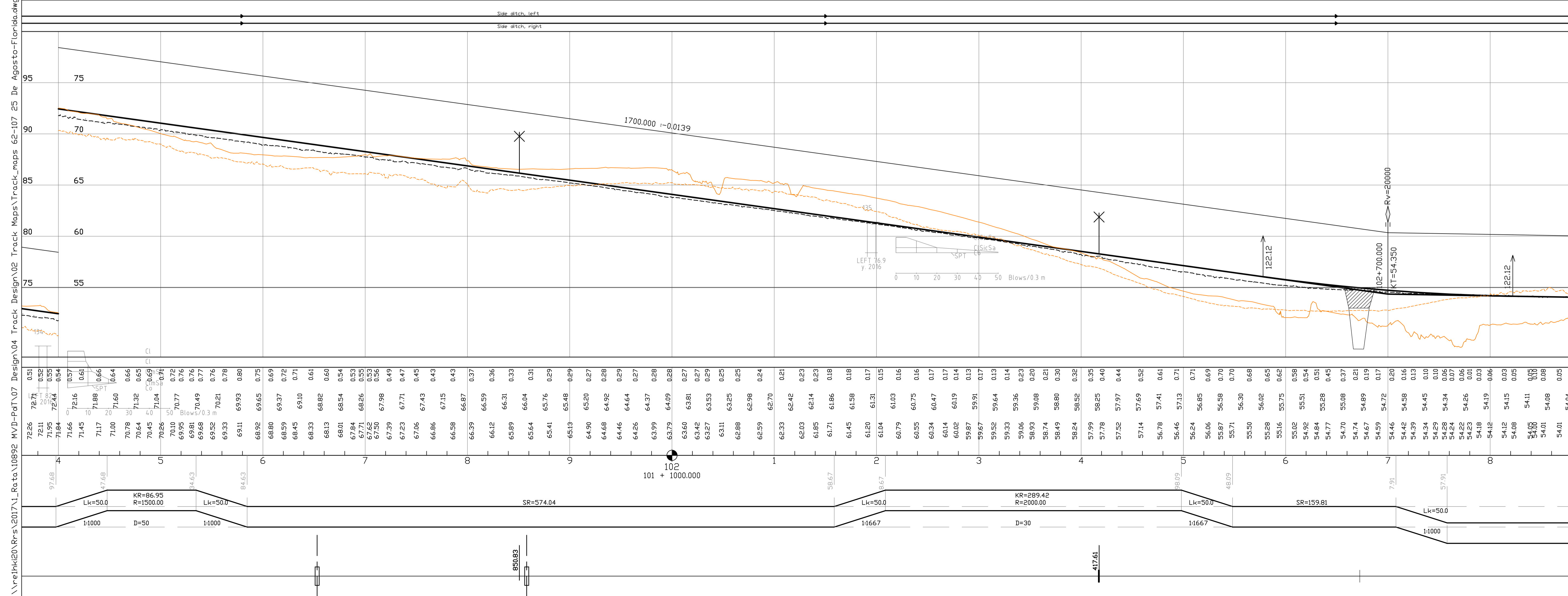
- y. 2017= year of investigation
- TR02= point number

### LEGEND, PROFILE

- Vertical railway alignment (S=radius of vertical curve, KT=elevation point)
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- Ground elevation on the left side of track centre line (-20m) and on the right side of track centre line (+20m)
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- Existing ground elevation
- Km stationing

### Horizontal alignment, schematic

- SR= length of straight line (m)
- R= curve radius (m)
- KR= length of curve (m)
- D= track cant (mm)
- Lk= length of transition curve (m)

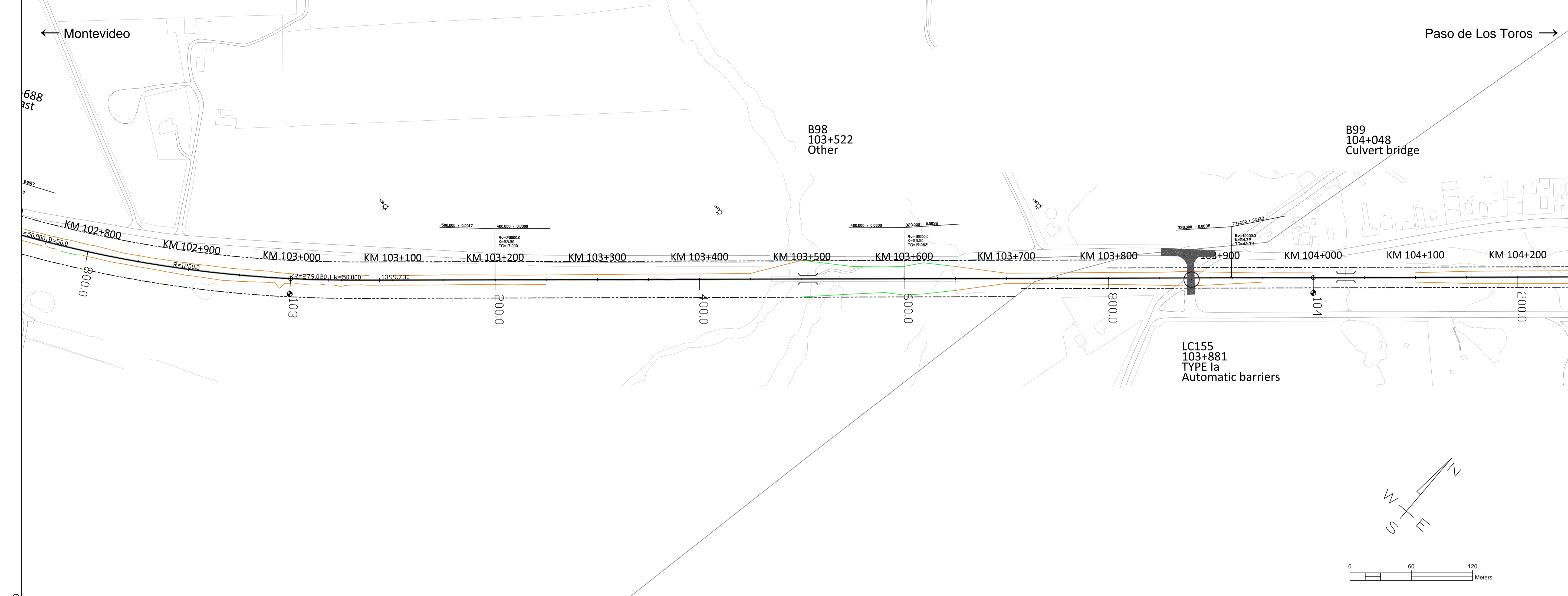


### Version 15.12.2017

Revision	Explanation	Date	Designer	Date	Acceptor
1					

Customer	MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS	Project	Railway Project
Design phase	Pre-engineering, Phase 2	Content	Track map and profile
Supplier	TRACK	Stationing	Km 101+0400 - 102+0800
Drawer	15.12.2017 UPA	Scale	map 1:2000, profile 1:2000 / 1:200
Designer	15.12.2017 HMa / MLe	Coordinate system	WGS 84 UTM 21 S, Local orthometric height
Supervisor	15.12.2017 SVI	Elevation reference system	Railway line
Accept.			Montevideo - Paso de Los Toros
Owner acc.		Archive	Type Number Rev. Sheet Sheets total
			73 195





### LEGEND, MAP

- New railway alignment
- Existing railway alignment (not in the Railway Project scope)
- Railway Area borderline
- Secondary Side Tracks - Horizontal geometry pre-designed (Secondary side tracks and their switches will be designed and constructed based on Appendix Q)
- Removal track
- Street or road modification area in level crossings or underpasses/flyovers
- Modification needed to the property access
- Affected parallel roads and streets and maintenance roads
- Road closing down
- Limit of designed soil cut (open cut or cut with a retaining wall)
- Limit of designed embankment fill, not including possible ditch
- Existing stations or passenger platforms
- New passenger platforms

### Symbols

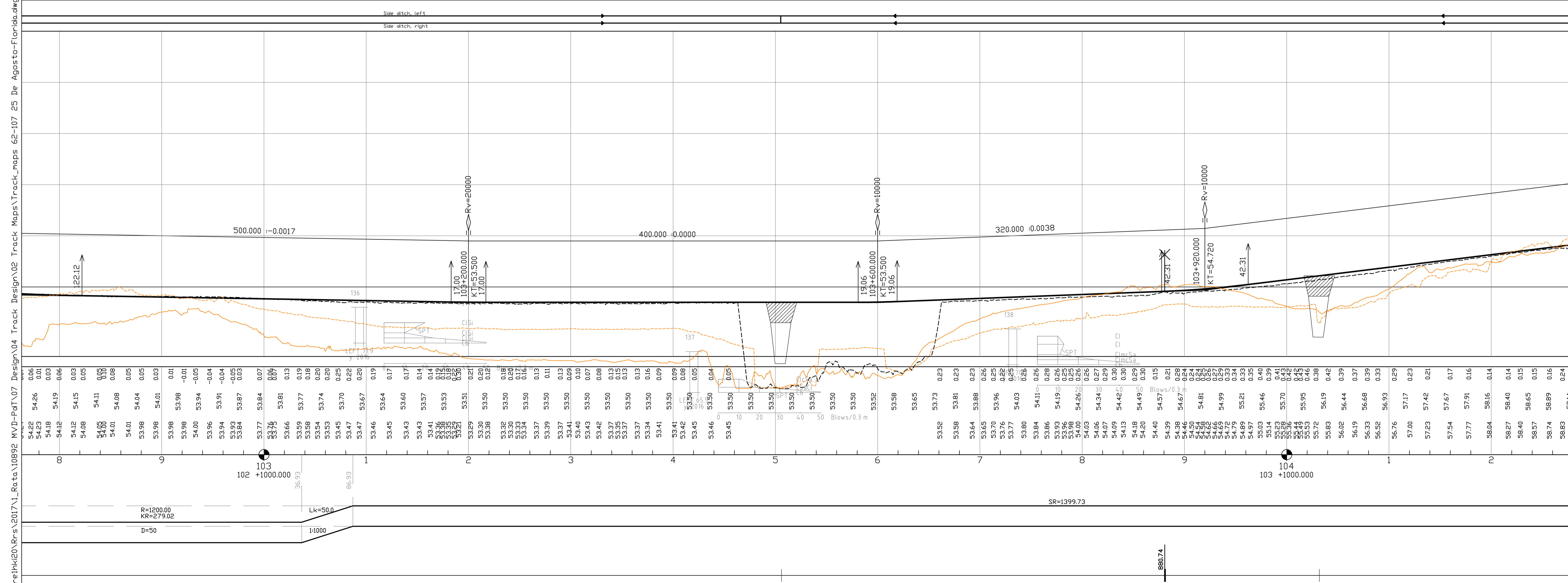
- BXXX BXXX: Railway bridge or underpass, Flyover
- CXXX: Culvert
- LCXXX: Level crossing

### Track alignment with design geometry figures

R= curve radius (m)  
 KR= length of curve (m)  
 D= track cant (mm)  
 Lk= length of transition curve (m)  
 Rv= radius of vertical curve  
 K= elevation  
 TG= length of tangent  
 123.345= length of straight line (m)

y. 2016 y. 2016  
 1 217  
 y. 2017  
 TR02

SPT-sounding, terminated at cobble, boulder, or bedrock contact.  
 y. 2016= year of investigation, location of 2016 soundings not accurate  
 1, 217= point number  
 y. 2017= year of investigation  
 TR02= point number



### LEGEND, PROFILE

- Vertical railway alignment (S=radius of vertical curve, KT=elevation point)
- Ground surface
- Ground elevation on the left side of track centre line (-20m) and on the right side of track centre line (+20m)
- Culvert location (elevation will be designed in detailed design phase)
- Level crossing
- Overpass bridge, railway or underpass bridge
- Elevation figures
- Difference between existing ground and designed track elevation
- Designed track elevation (the running surface of the rail)
- Existing ground elevation
- Km stationing

### Horizontal alignment, schematic

SR= length of straight line (m)  
 R= curve radius (m)  
 KR= length of curve (m)  
 D= track cant (mm)  
 Lk= length of transition curve (m)

0 +1000.000  
 1  
 0.17  
 02.15 02.32  
 0.17

**Version 15.12.2017**

Revision	Explanation	Date	Designer	Date	Acceptor

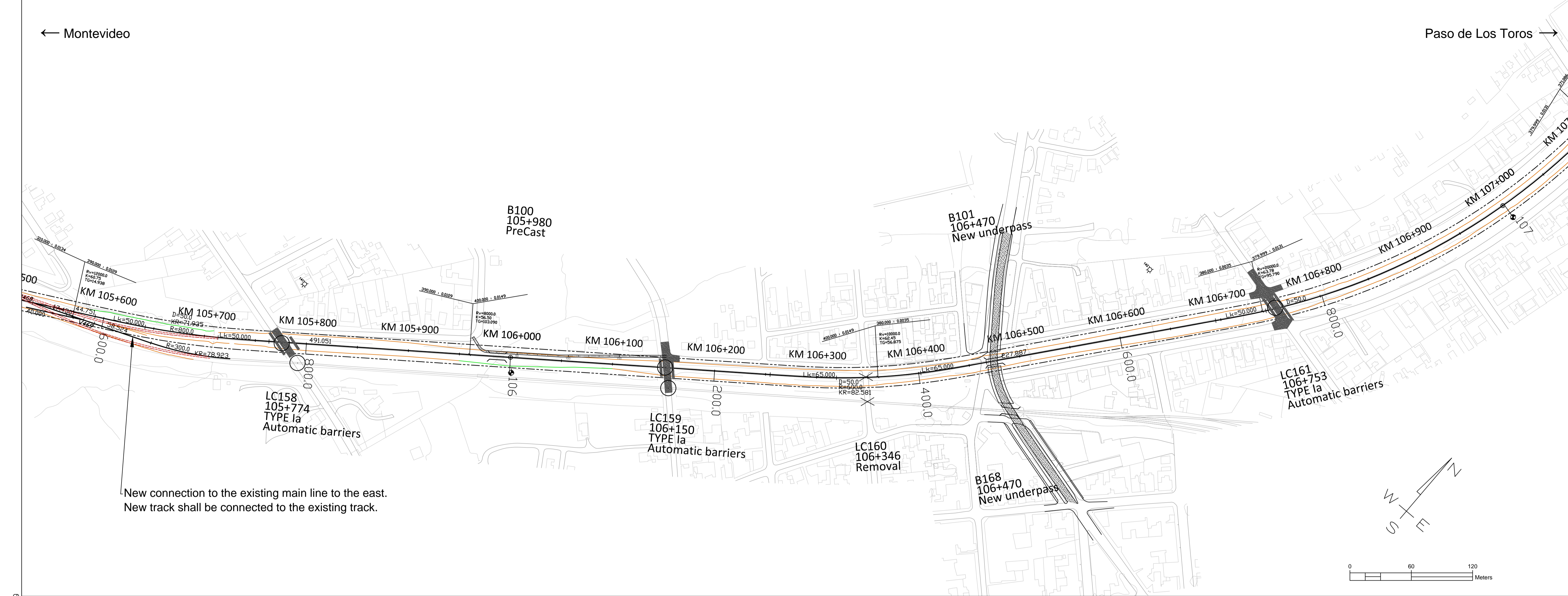
Customer	MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS	Project	Railway Project
Design phase	Pre-engineering, Phase 2	Content	Track map and profile
Supplier	<b>VR TRACK</b>	Content	Km 102+0800 - 104+0200
Drawer	15.12.2017 UPa	Scale	map 1:2000, profile 1:2000 / 1:200
Designer	15.12.2017 HMa / MLe	Coordinate system	WGS 84 UTM 21 S, Local orthometric height
Supervisor	15.12.2017 SVI	Elevation reference system	Railway line
Accept.			Montevideo - Paso de Los Toros
Owner acc.			Archive Type Number Rev. Sheet Sheets total

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New connection to the existing main line to the east.  
New track shall be connected to the existing track.

### LEGEND, MAP

- New railway alignment
- Existing railway alignment (not in the Railway Project scope)
- Railway Area borderline
- Secondary Side Tracks - Horizontal geometry pre-designed (Secondary side tracks and their switches will be designed and constructed based on Appendix Q)
- Removal track
- Street or road modification area in level crossings or underpasses/flyovers
- Modification needed to the property access
- Affected parallel roads and streets and maintenance roads
- Road closing down
- Limit of designed soil cut (open cut or cut with a retaining wall)
- Limit of designed embankment fill, not including possible ditch
- Existing stations or passenger platforms
- New passenger platforms

### Symbols

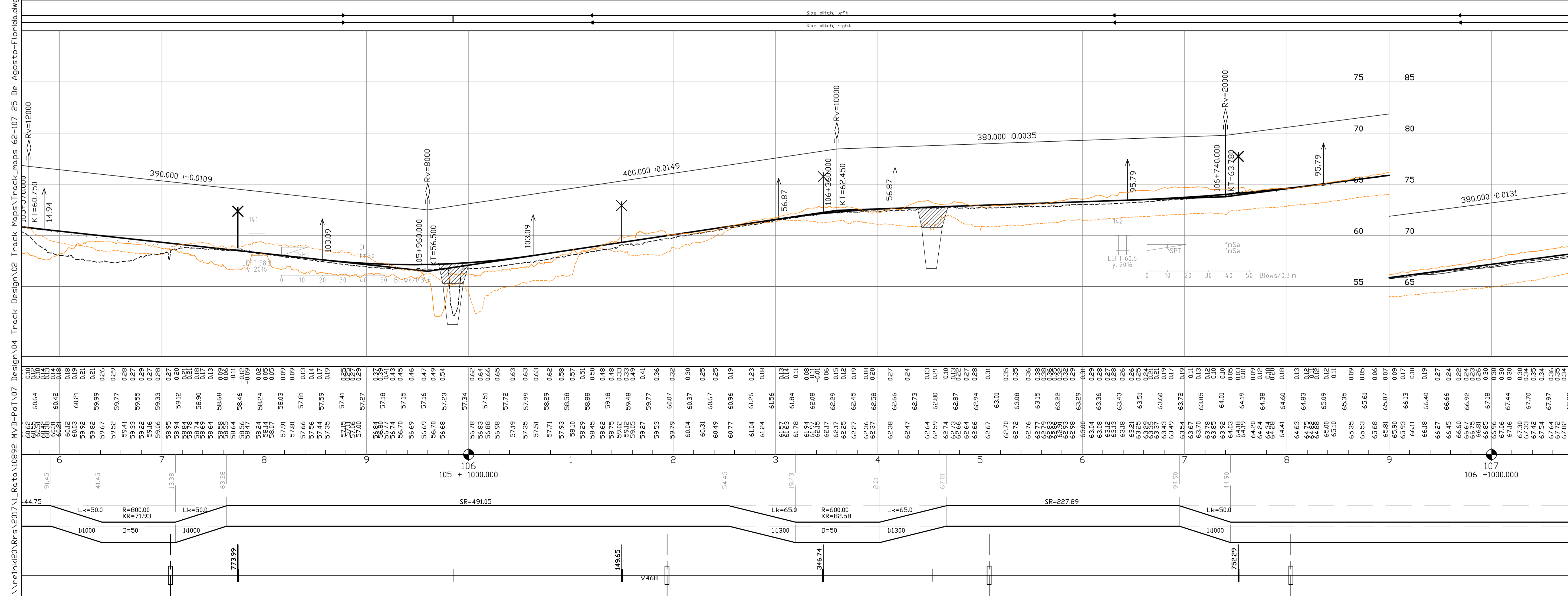
- BXXX BXXX: Railway bridge or underpass, Flyover
- CXXX: Culvert
- Level crossing

### Track alignment with design geometry figures

- R= curve radius (m)
- KR= length of curve (m)
- D= track cant (mm)
- Lk= length of transition curve (m)
- Rv= radius of vertical curve
- Kv= elevation
- TG= length of tangent
- 123.345= length of straight line (m)

### Sounding and Sampling

- SPT= sounding, terminated at cobble, boulder, or bedrock contact.
- y. 2016= year of investigation, location of 2016 soundings not accurate
- 1, 217= point number
- Disturbed Sample
- y. 2017= year of investigation
- TR02= point number



### LEGEND, PROFILE

- Vertical railway alignment (S=radius of vertical curve, KT=elevation point)
- Ground surface
- Ground elevation on the left side of track centre line (-20m) and on the right side of track centre line (+20m)
- Culvert location (elevation will be designed in detailed design phase)
- Level crossing
- Overpass bridge, railway or underpass bridge
- Elevation figures
- Difference between existing ground and designed track elevation
- Designed track elevation (the running surface of the rail)
- Existing ground elevation
- Km stationing

### Horizontal alignment, schematic

- SR= length of straight line (m)
- R= curve radius (m)
- KR= length of curve (m)
- D= track cant (mm)
- Lk= length of transition curve (m)

### Version 15.12.2017

Revision	Explanation	Date	Designer	Date	Acceptor
1					

Customer	MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS	Project	Railway Project
Design phase	Pre-engineering, Phase 2	Content	Track map and profile
Supplier	TRACK	Contract	Km 105+0600 - 107+0000

Drawer	15.12.2017	UPa	Scale	map 1:2000, profile 1:2000 / 1:200
Designer	15.12.2017	HMa / MLe	Coordinate system	WGS 84 UTM 21 S, Local orthometric height
Supervisor	15.12.2017	SVI	Railway line	Montevideo - Paso de Los Toros
Accept.			Archive	Type Number Rev. Sheet Sheets total
Owner acc.				76 195