

Maps



**Network
Statement
2020**

Updated to March 2020





MAPS RFIG

Map RFIG

- Rail Network of General Interest, RFIG.

Map 1

- Passenger transport stations, Maximum length of passenger trains, Commuter Hubs and Distances in Kilometers.

Map 2

- Main Freight Transport Terminals, Fuel Supply Fix Points, Maximum Length of Freight Trains, Dynamic Weighbridges, characteristic Ramps in thousandths and Ports of General Interest with Connection Agreement to the General Interest Rail Network

Map 3

- Maximum Speeds, Types of Electrification and Catenaries

Map 4

- Safety and Blocking Systems

Map 5

- Private Loaders with connection to the General Interest Rail Network

Map 1 RAM

- Lines and Passenger Transport Stations

Map 2 RAM

- Maximum speeds

Map 3 RAM

- Passenger trains maximum length

Map 4 RAM

- Maximum Length of Freight Trains

Map 5 RAM

- Distances in Kilometers

Map 6 RAM

- Characteristic Ramps in thousandths

Map 7 RAM

- Types of Electrification and Catenaries

Map 8 RAM

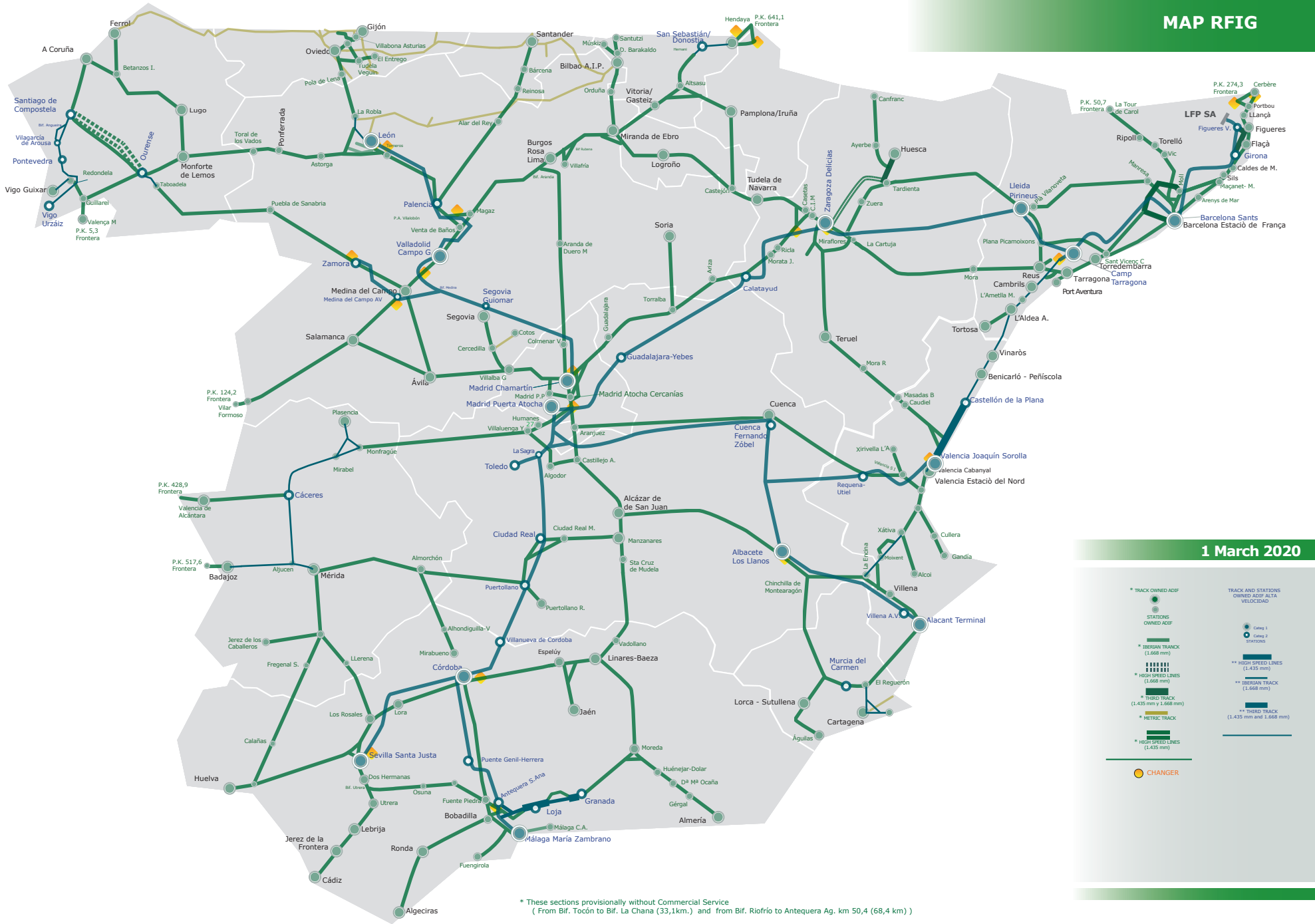
- Safety and Blocking Systems

Map 9 RAM

- Private Loaders with connection to the General Interest Rail Network

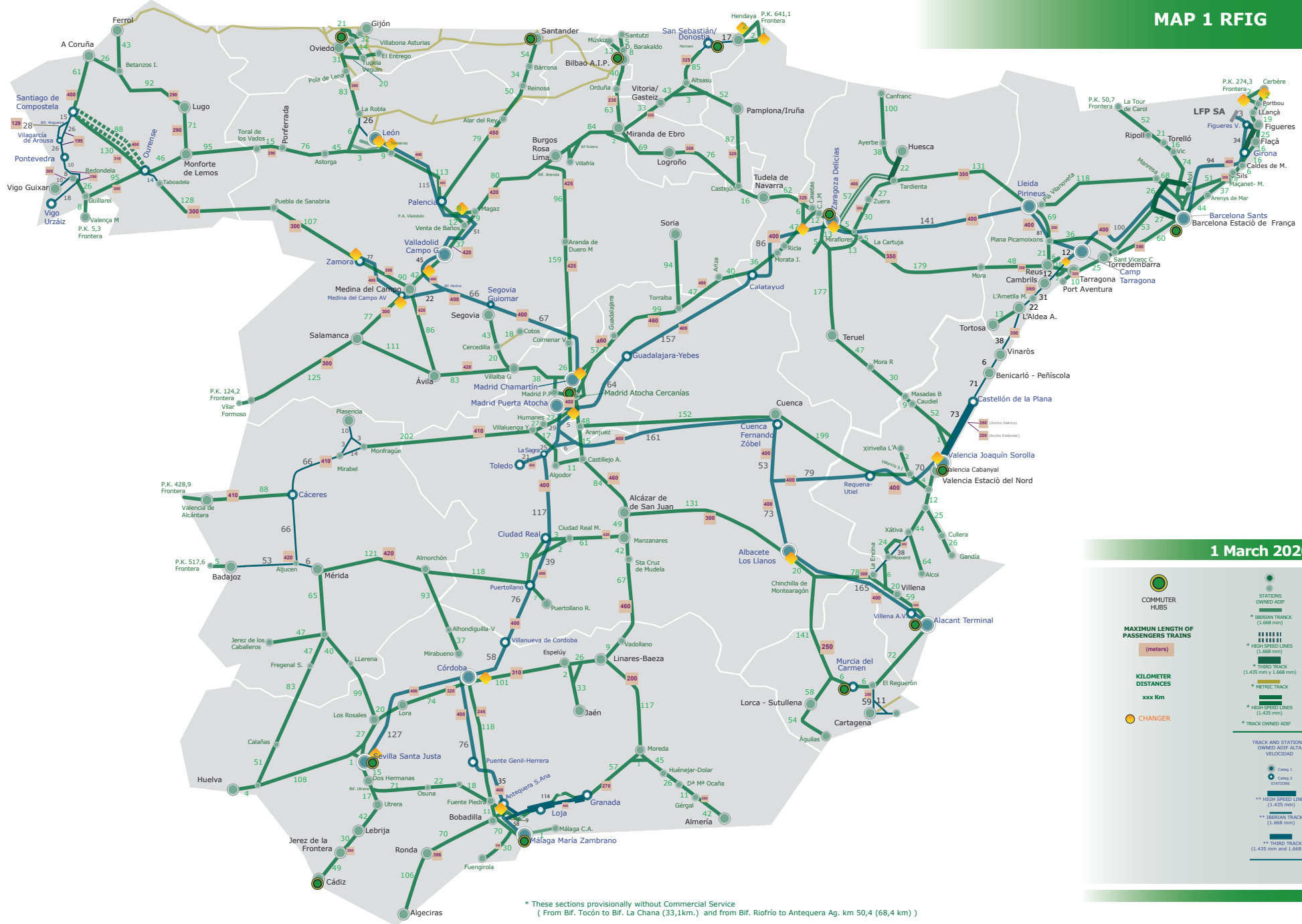
These maps are available in attached document on the Adif Web, in interactive Pdf format that allow to add and disaggregate layers to individually visualize and print, the contents of each.

MAP RFIG









* These sections provisionally without Commercial Service
 (From Bif. Tocón to Bif. La Chana (33,1km.) and from Bif. Riofrío to Antequera Ag. km 50,4 (68,4 km))

MAP 1 RFIG

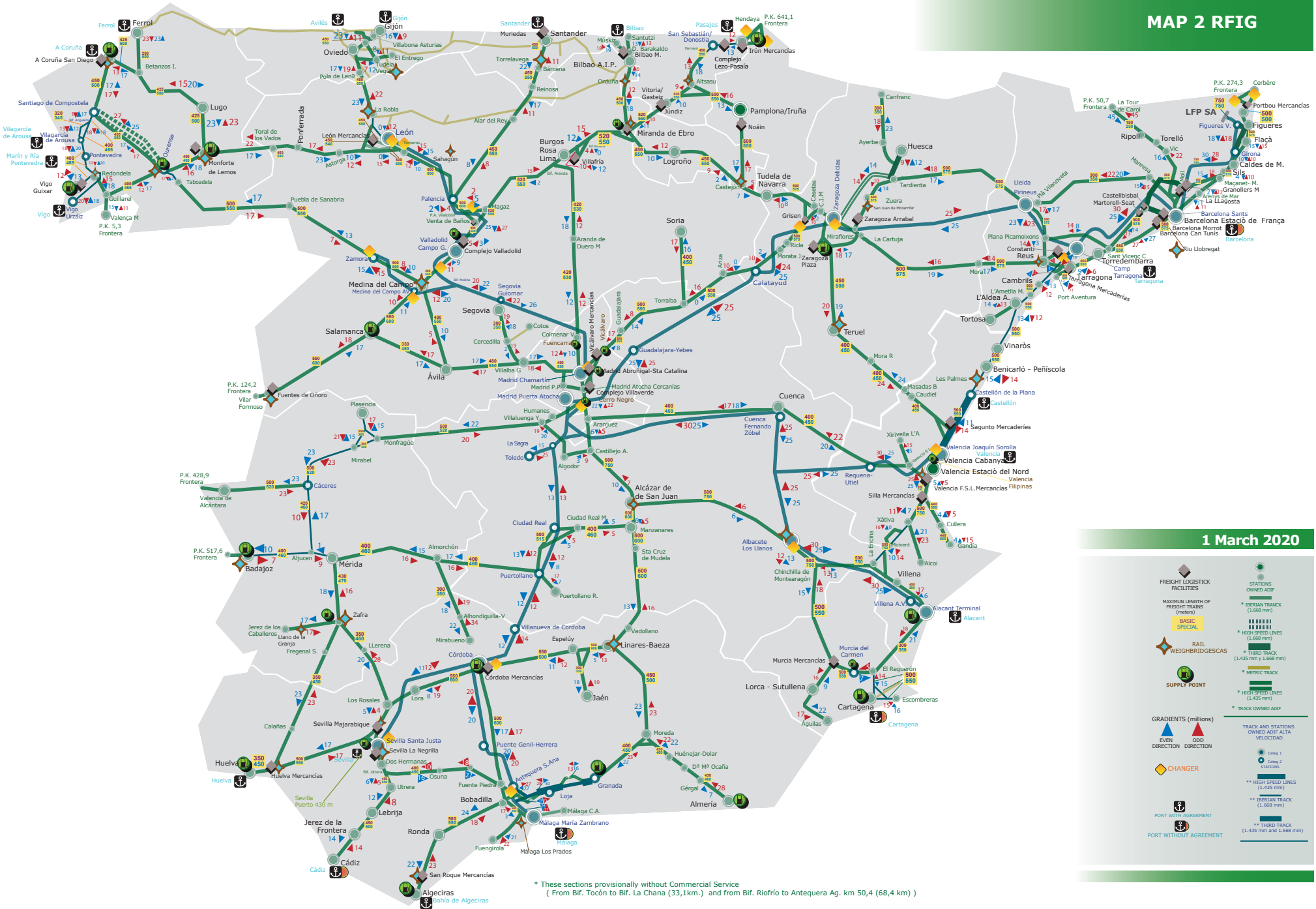


1 March 2020

| | |
|---|--|
|  | STATIONS OWNED ADFE* |
| COMMUTER HUBS | |
|  | * IBERIAN TRACK (1.668 mm) |
| MAXIMUM LENGTH OF PASSENGERS TRAINS |  (meters) |
| | * HIGH SPEED LINES (1.668 mm) |
| | * THIRD TRACK (1.435 mm y 1.668 mm) |
| | * METRIC TRACK |
| KILOMETER DISTANCES | * HIGH SPEED LINES (1.435 mm) |
| xxx Km | |
|  | * TRACK OWNED ADFE* |
| CHANGER | |
| | TRACK AND STATIONS OWNED ADFE ALTA VELOCIDAD |
| |  Categ 1 |
| |  Categ 2 |
| | ** HIGH SPEED LINES (1.435 mm) |
| | ** IBERIAN TRACK (1.668 mm) |
| | ** THIRD TRACK (1.435 mm and 1.668 mm) |

* These sections provisionally without Commercial Service (From Bif. Tocón to Bif. La Chana (33,1km.) and from Bif. Riofrío to Antequera Ag. km 50,4 (68,4 km))

MAP 2 RFIG

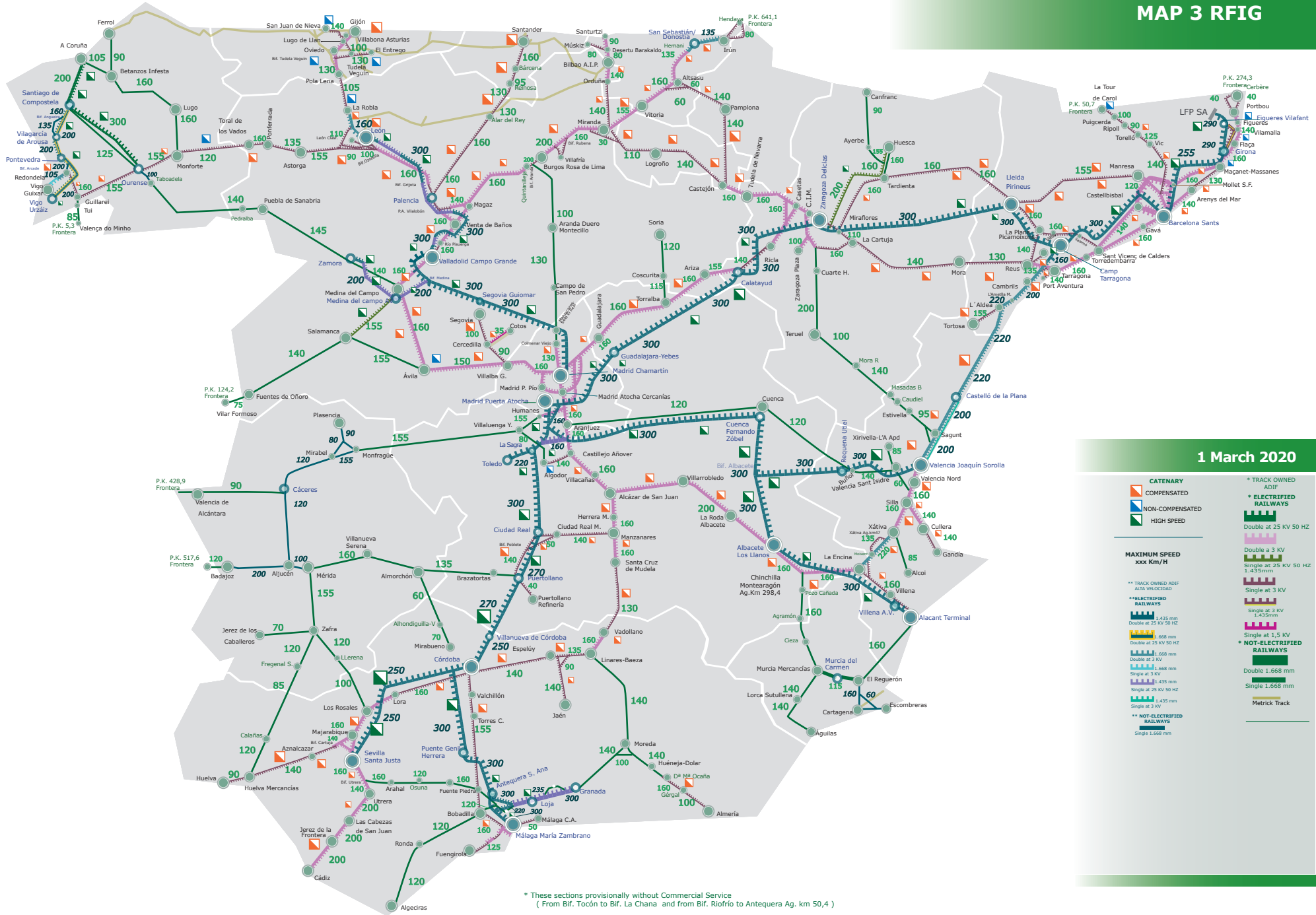


1 March 2020

- FREIGHT LOGISTICS FACILITIES
- STATION OWNED ADFP
- MAXIMUM LENGTH OF FREIGHT TRAINS (meters)
- * BIBESIAN TRACK (1.668 mm)
- BASIC SPECIAL
- * HIGH SPEED LINES (1.668 mm)
- * THIRD TRACK (1.435 mm y 1.668 mm)
- * METRIC TRACK
- * HIGH SPEED LINES (1.435 mm)
- * TRACK OWNED ADFP
- SUPPLY POINT
- GRADIENTS (millions)
- EVEN DIRECTION
- ODD DIRECTION
- CHANGER
- PORT WITH AGREEMENT
- PORT WITHOUT AGREEMENT
- TRACK AND STATIONS OWNED ADFP ALTA VELOCIDAD
- Cango 1
- Cango 2
- ** HIGH SPEED LINES (1.435 mm)
- ** BIBESIAN TRACK (1.668 mm)

* These sections provisionally without Commercial Service (From Bif. Tocón to Bif. La Chana (33,1km.) and from Bif. Riofrío to Antequera Ag. km 50,4 (68,4 km))

MAP 3 RFIG

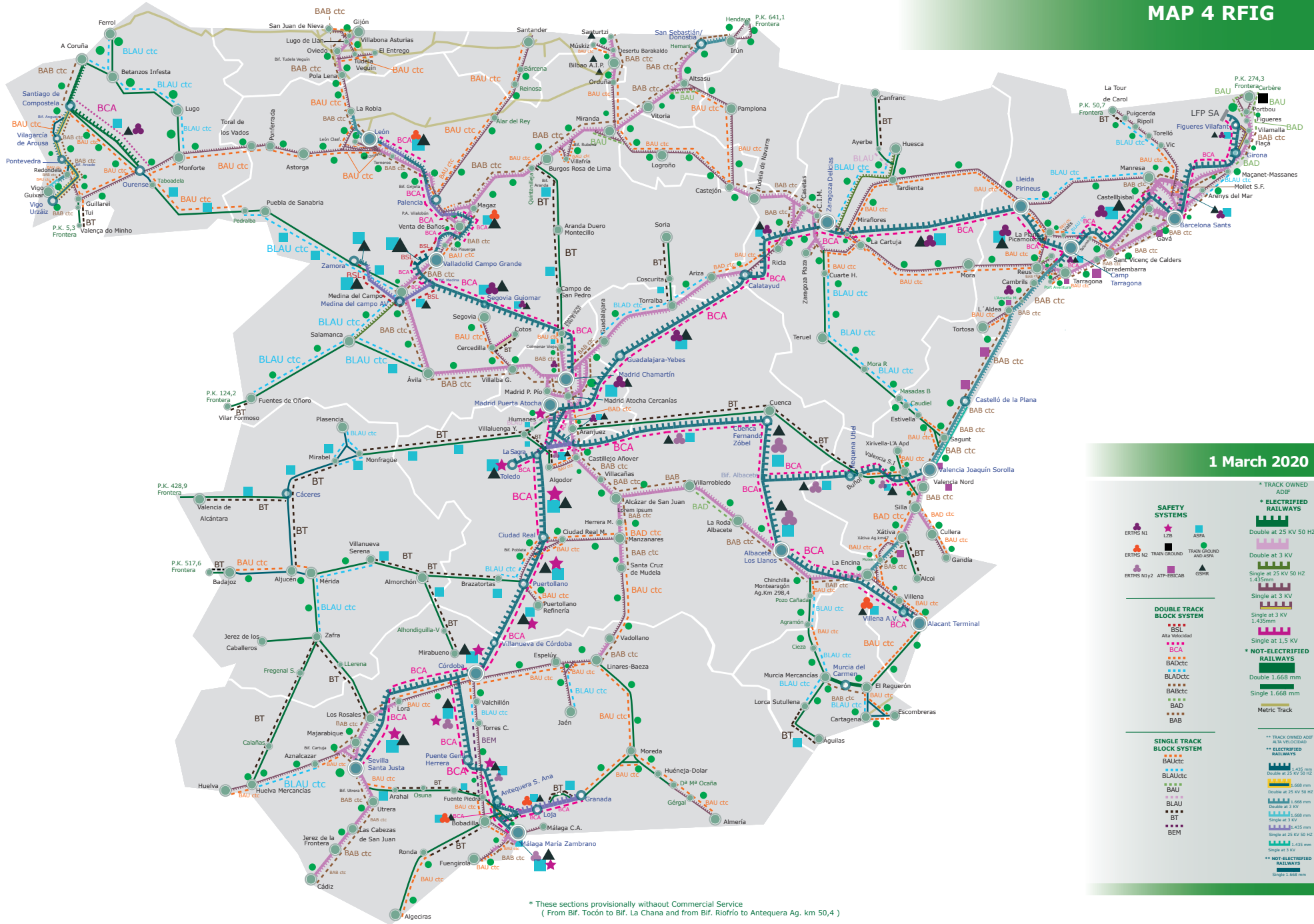


1 March 2020

| | |
|---|--|
| <ul style="list-style-type: none"> CATENARY COMPENSATED NON-COMPENSATED HIGH SPEED | <ul style="list-style-type: none"> * TRACK OWNED ADIF * ELECTRIFIED RAILWAYS Double at 25 KV 50 HZ Double a 3 KV Single at 25 KV 50 HZ Single at 1.5 KV * NOT-ELECTRIFIED RAILWAYS Double 1.668 mm Single 1.668 mm Metrick Track |
| <p>MAXIMUM SPEED xxx Km/H</p> <ul style="list-style-type: none"> ** TRACK OWNED ADIF 1.435 mm Double at 25 KV 50 HZ 1.668 mm Double at 25 KV 50 HZ 1.668 mm Double at 3 KV 1.668 mm Single at 3 KV 1.435 mm Double at 25 KV 50 HZ 1.435 mm Single at 25 KV 50 HZ 1.435 mm Single at 3 KV | <ul style="list-style-type: none"> ** NOT-ELECTRIFIED RAILWAYS Single 1.668 mm |

* These sections provisionally without Commercial Service
(From Bif. Tocón to Bif. La Chana and from Bif. Riofrio to Antequera Ag. km 50,4)

MAP 4 RFIG



1 March 2020

SAFETY SYSTEMS

- ERTMS N1
- ERTMS N2
- ERTMS N1v2
- L2B
- TRAIN GROUND
- ATP-BI/CAB
- ASFA
- AND ASFA
- GSMP

DOUBLE TRACK BLOCK SYSTEM

- BSL
- BCA
- BADctc
- BLADctc
- BABctc
- BAD
- BAB

SINGLE TRACK BLOCK SYSTEM

- BAUctc
- BLAUctc
- BAU
- BLAU
- BT
- BEM

TRACK OWNED ADIF

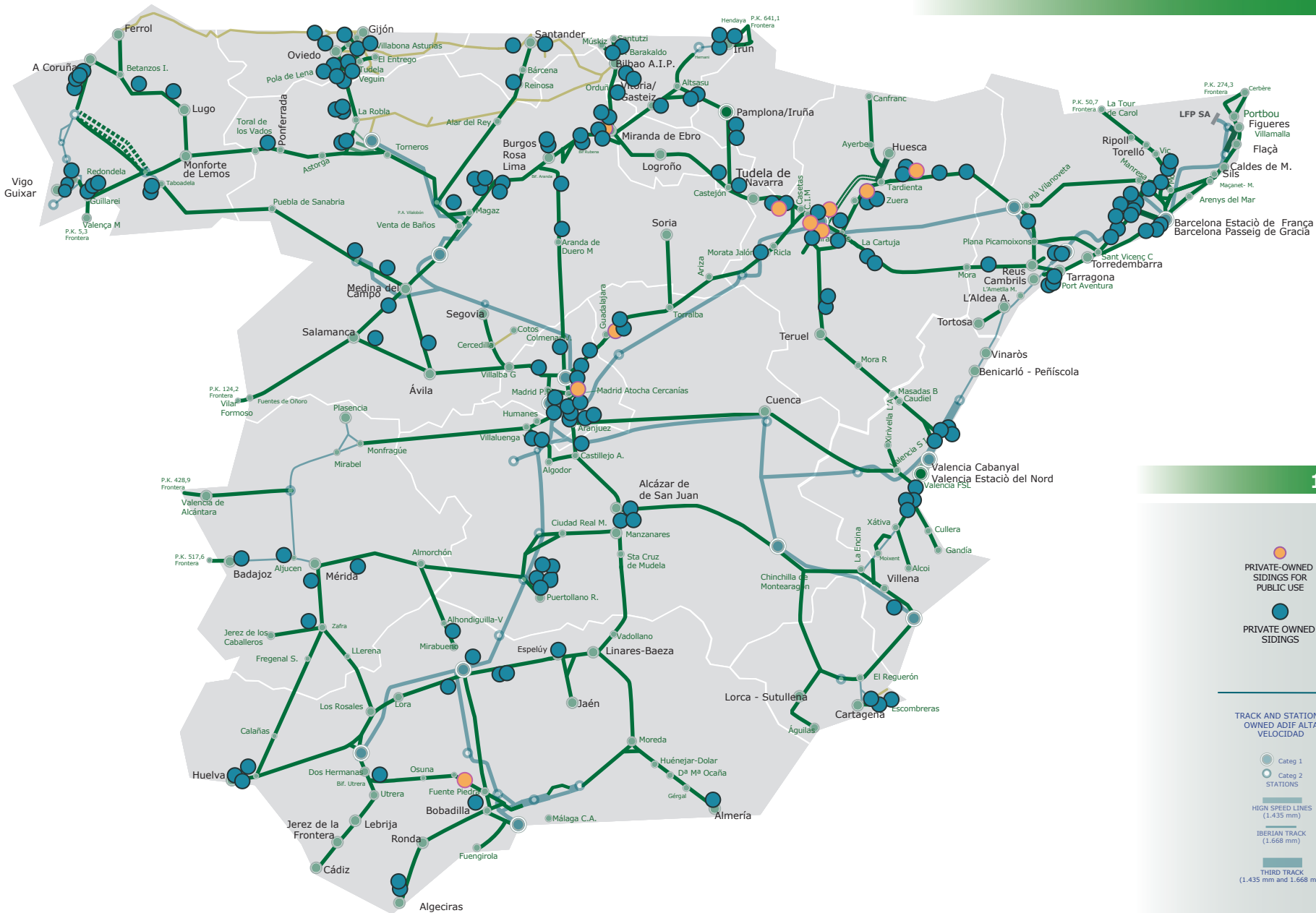
- Electrified Railways: Double at 25 kV 50 Hz, Double at 3 kV, Single at 25 kV 50 Hz 1.435mm, Single at 3 kV 1.435mm, Single at 1.5 kV
- Not-Electrified Railways: Double 1.668 mm, Single 1.668 mm, Metric Track

TRACK OWNED RENFE

- Electrified Railways: Double at 25 kV 50 Hz 1.435 mm, Double at 3 kV 1.435 mm, Double at 25 kV 50 Hz 1.668 mm, Double at 3 kV 1.668 mm, Single at 3 kV 1.435 mm, Single at 25 kV 50 Hz 1.435 mm, Single at 3 kV 1.668 mm
- Not-Electrified Railways: Single 1.668 mm

* These sections provisionally without Commercial Service
 (From Bif. Tocón to Bif. La Chana and from Bif. Riofrio to Antequera Ag. km 50,4)

MAP 5 RFIG

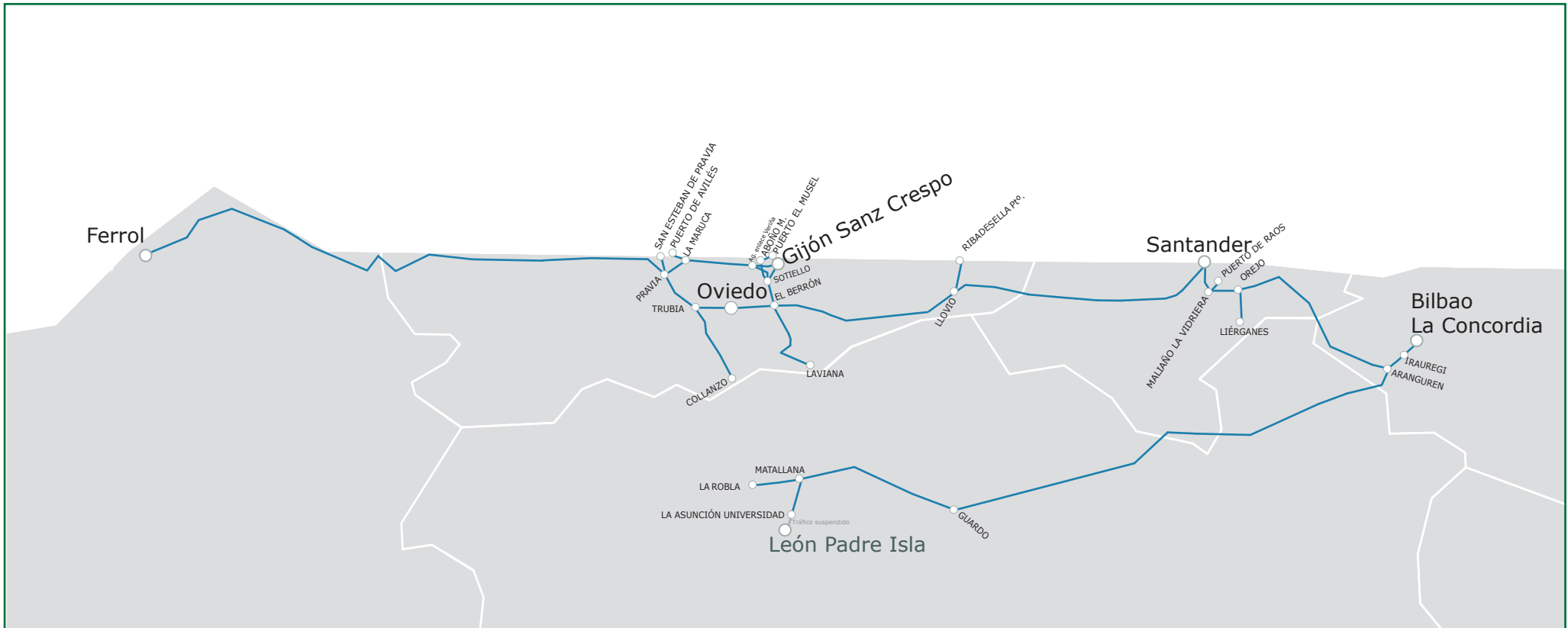


1 March 2020

| | | | |
|--|--|--|---------------------------------------|
| | PRIVATE OWNED SIDINGS FOR PUBLIC USE | | STATIONS OWNED ADIF |
| | PRIVATE OWNED SIDINGS | | * IBERIAN TRACK (1.668 mm) |
| | TRACK AND STATIONS OWNED ADIF ALTA VELOCIDAD | | * HIGH SPEED LINES (1.668 mm) |
| | Categ 1 STATIONS | | * THIRD TRACK (1.435 mm and 1.668 mm) |
| | Categ 2 STATIONS | | * METRIC TRACK |
| | HIGH SPEED LINES (1.435 mm) | | * HIGH SPEED LINES (1.435 mm) |
| | IBERIAN TRACK (1.668 mm) | | * TRACK OWNED ADIF |
| | THIRD TRACK (1.435 mm and 1.668 mm) | | |

The loaders in metric width lines are indicated in the map 9

MAP 1 LINES AND STATIONS ON METRIC GAUGE LINES



1 October 2019

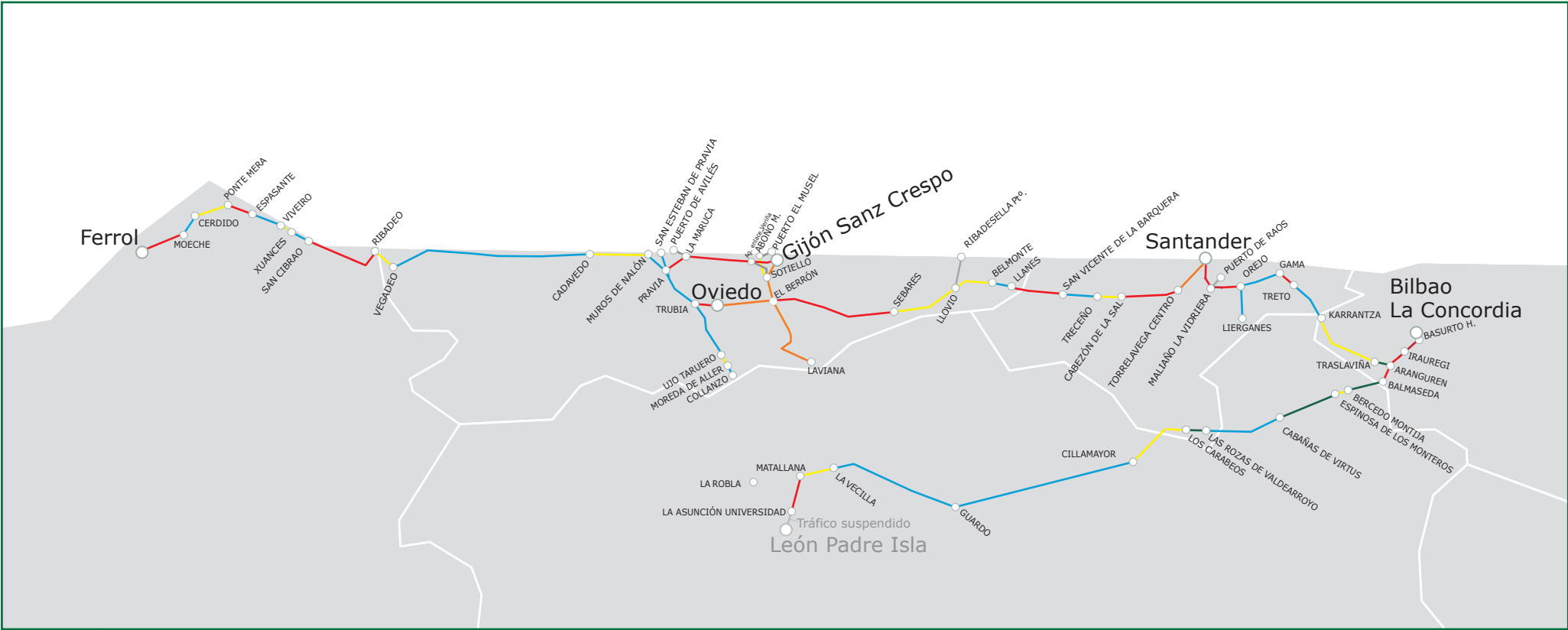
METRIC
TRACK
LINES
line 116 except
Cotos-Cercedilla

○
MAIN
PASSENGER
STATIONS

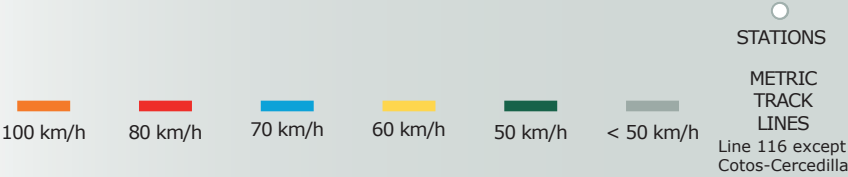
○
OTHER
STATIONS

MAP 2

MAXIMUM SPEEDS ON METRIC GAUGE LINES

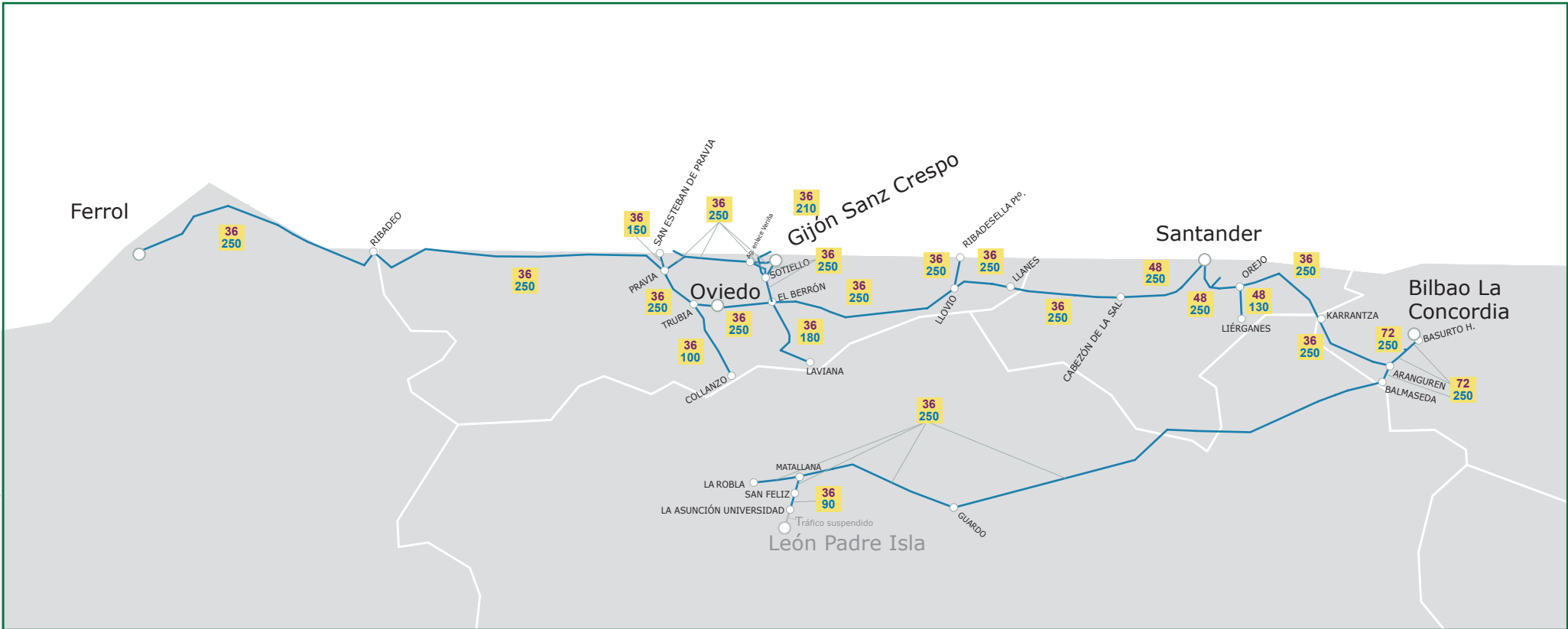


1 October 2019

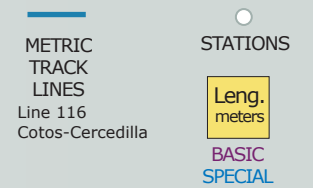


MAP 3

MAXIMUM LENGTH OF PASSENGER TRAINS ON METRIC GAUGE LINES



1 October 2019





MAP 4


MAXIMUM LENGTH OF FREIGHT TRAINS ON METRIC GAUGE LINES



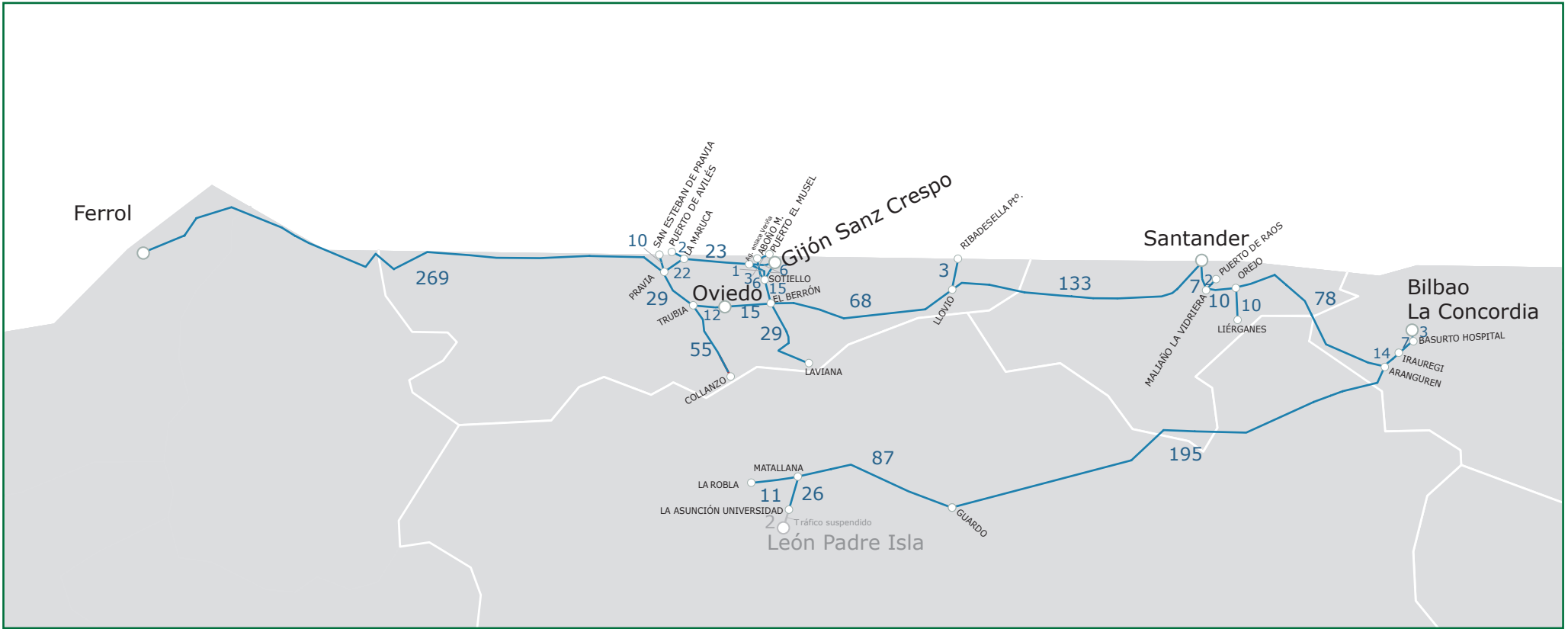
1 October 2019

 METRIC TRACK LINES
 Line 116 Cotos-Cercedilla

 STATIONS

 Long. meters
 BASIC SPECIAL

MAP 5
DISTANCES IN KILOMETERS OF METRIC GAUGE LINES



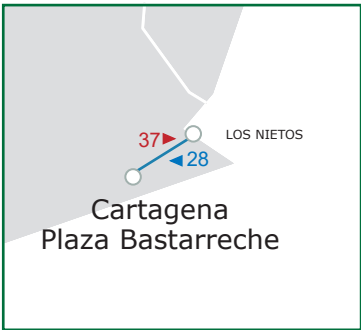
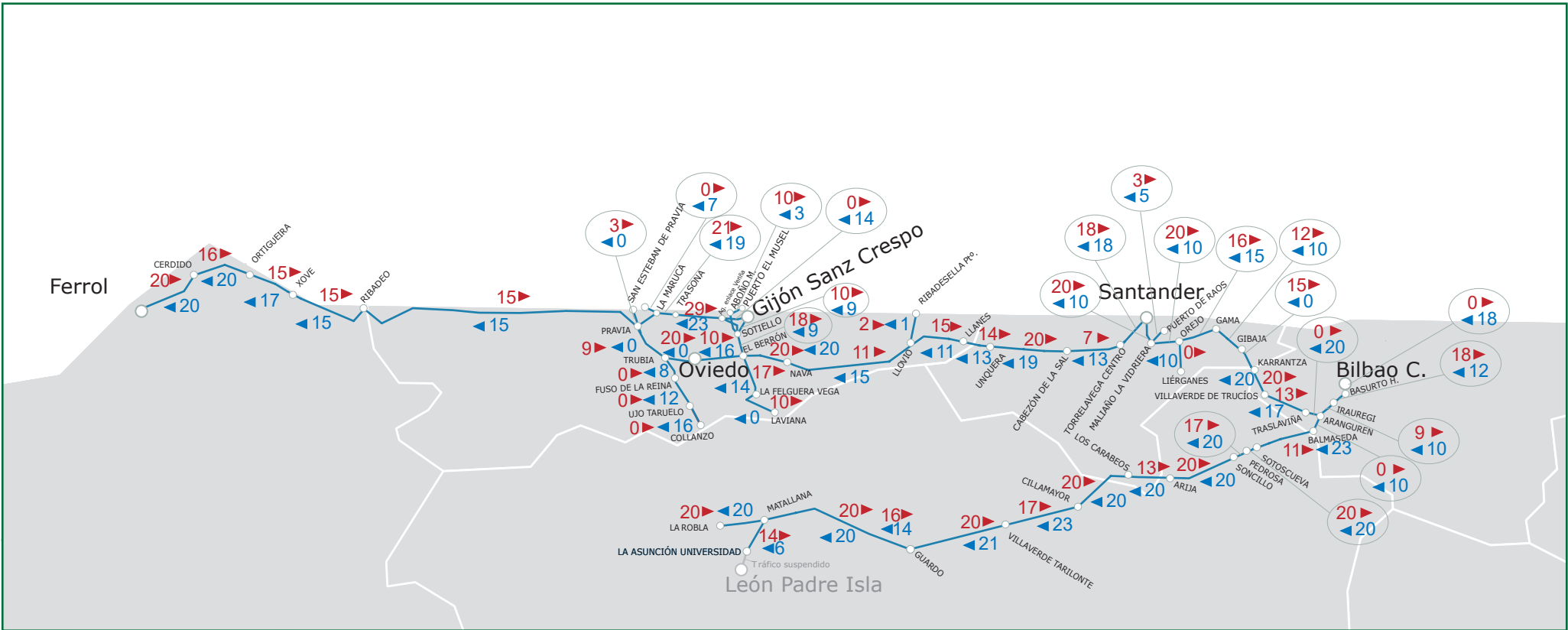
1 October 2019

METRIC TRACK LINES
 Line 116
 Cotos-Cercedilla

STATIONS

MAP 6

CHARACTERISTIC GRADIENTS (THOUSANDTHS) OF METRIC GAUGE LINES



1 October 2019

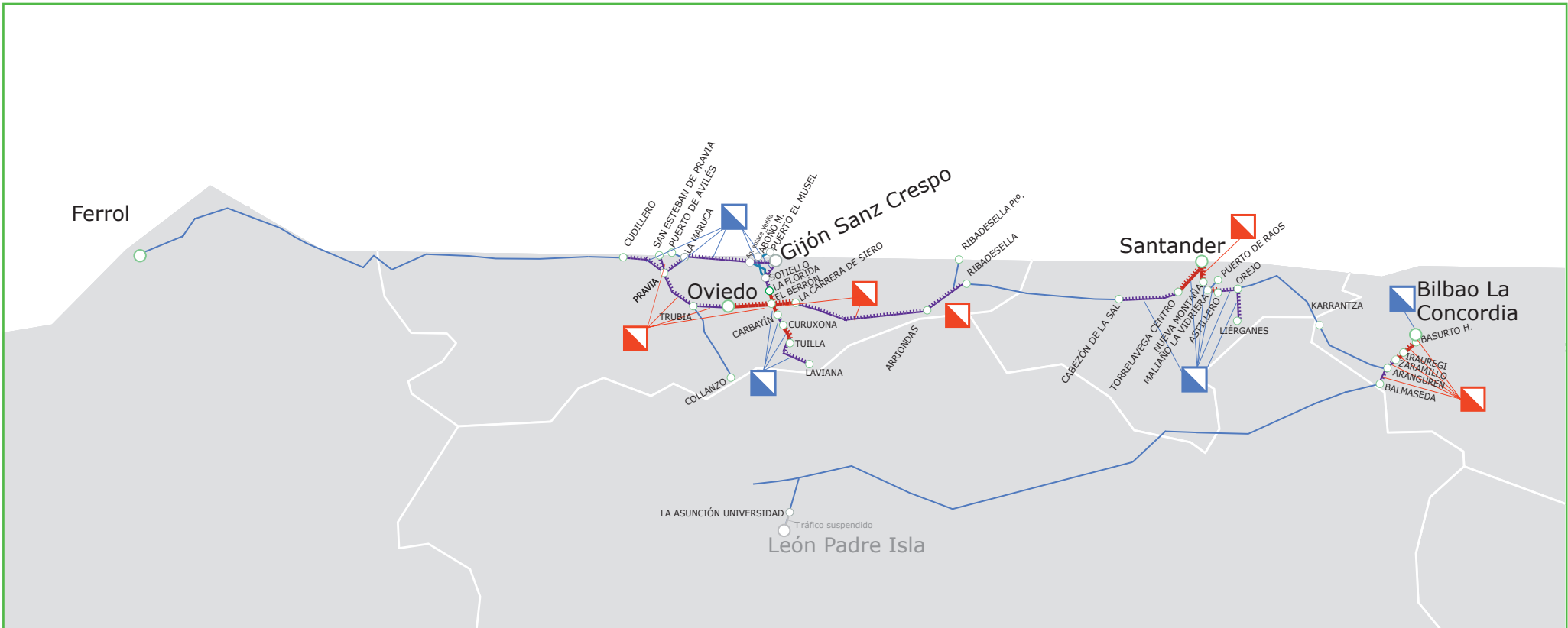
— METRIC TRACK LINES
 Line 116 Cotos-Cercedilla

● STATIONS

▶ ODD DIRECTION ▶ EVEN DIRECTION

MAP 7

ELECTRIFIED LINES AND TYPES OF ELECTRIFICATION WITH METRIC GAUGE





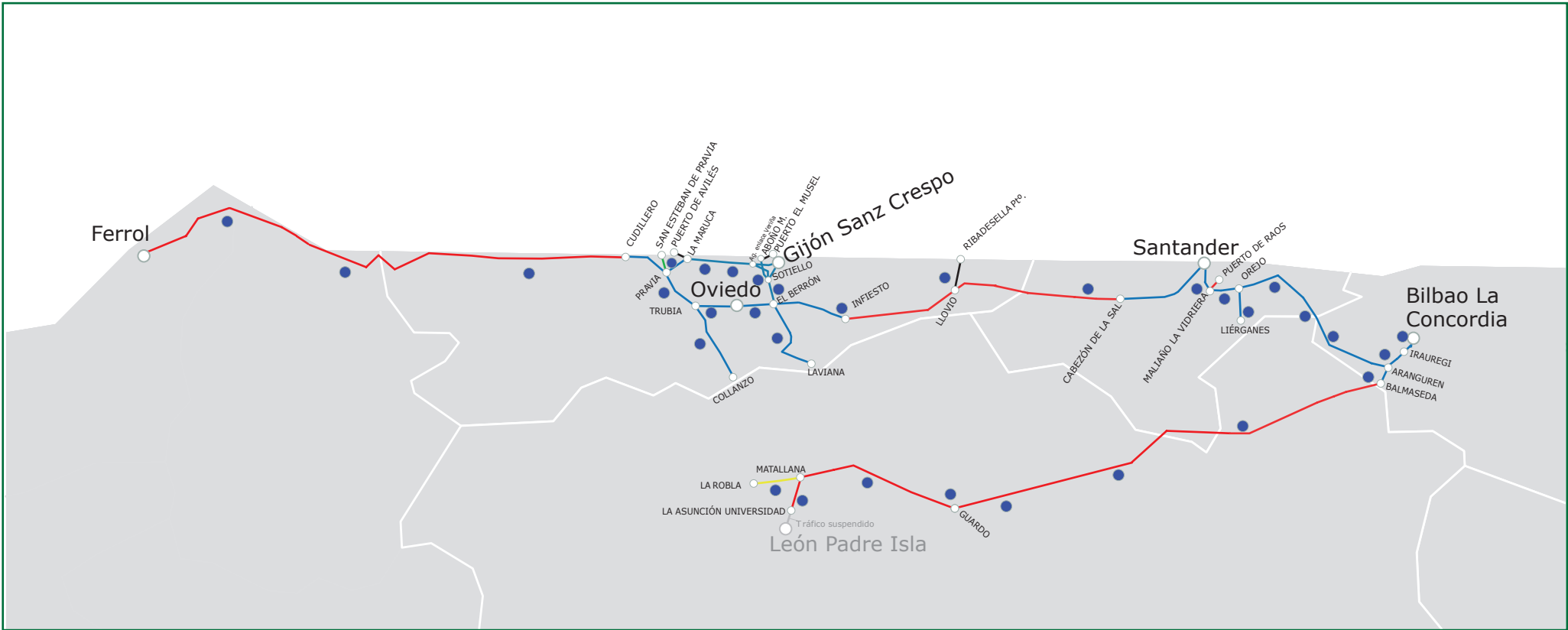
1 October 2019

MÉTRIC TRACK LINES
Lines 116
Cotos-Cercedilla

CATENARY
 COMPENSATED
 NON COMPENSATED

NON-ELECTRIFIED RAILWAYS
 SINGLE

ELECTRIFIED RAILWAYS
 DOUBLE AT 1,5 KV
 SINGLE AT 1,5 KV



1 October 2019

- B.T. Telephone Block
 - B.A.U/B.A.D/B.A.B (Automatic Block + CTC)
 - B.E.M. Manual Electric Block
 - B.A.U (Automatic)
 - Other procedures (regulated by instruction)
 - ASFA (analogical)
 - STATIONS
- METRIC TRACK LINES
Line 116 except Cotos-Cercedilla

