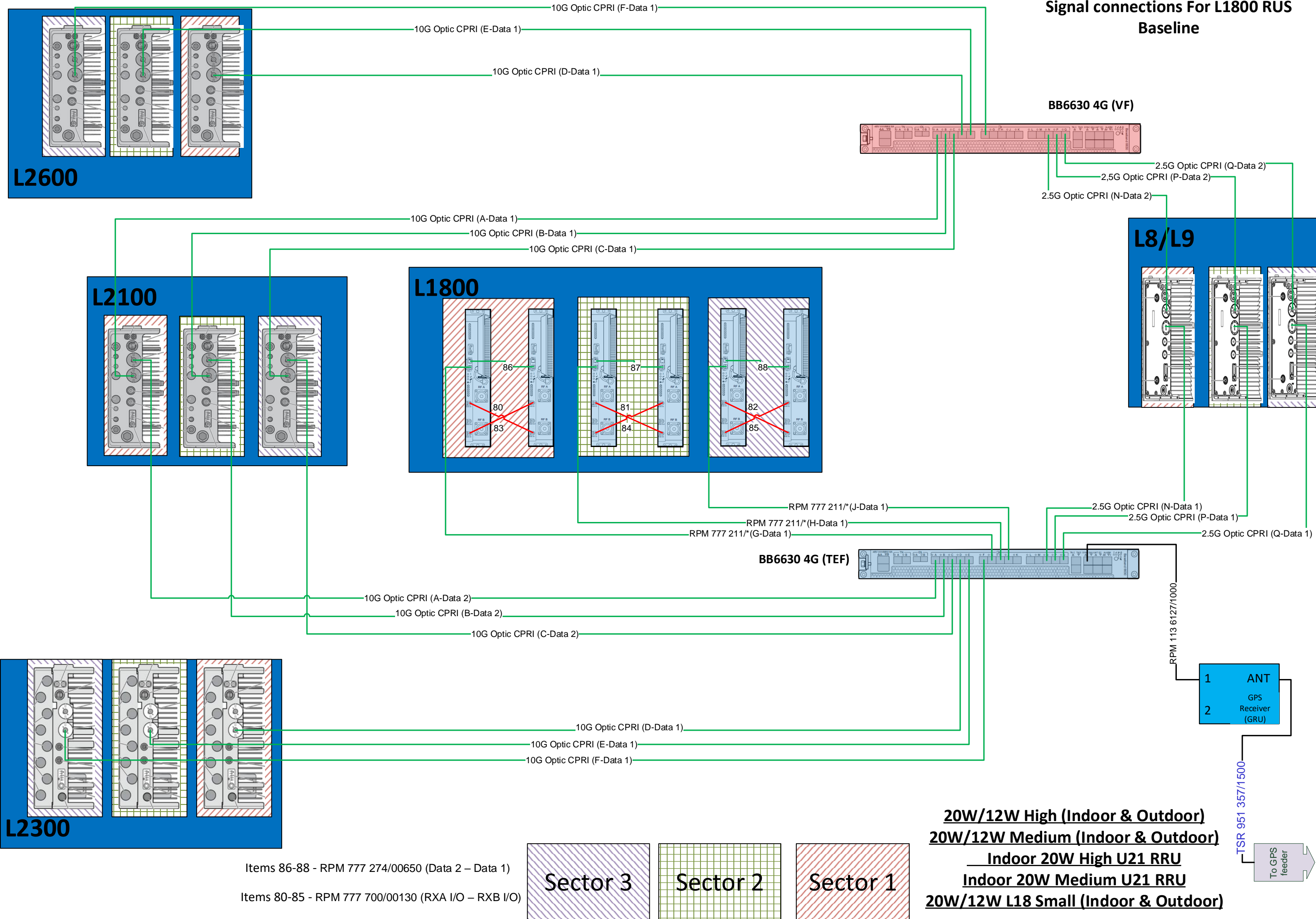
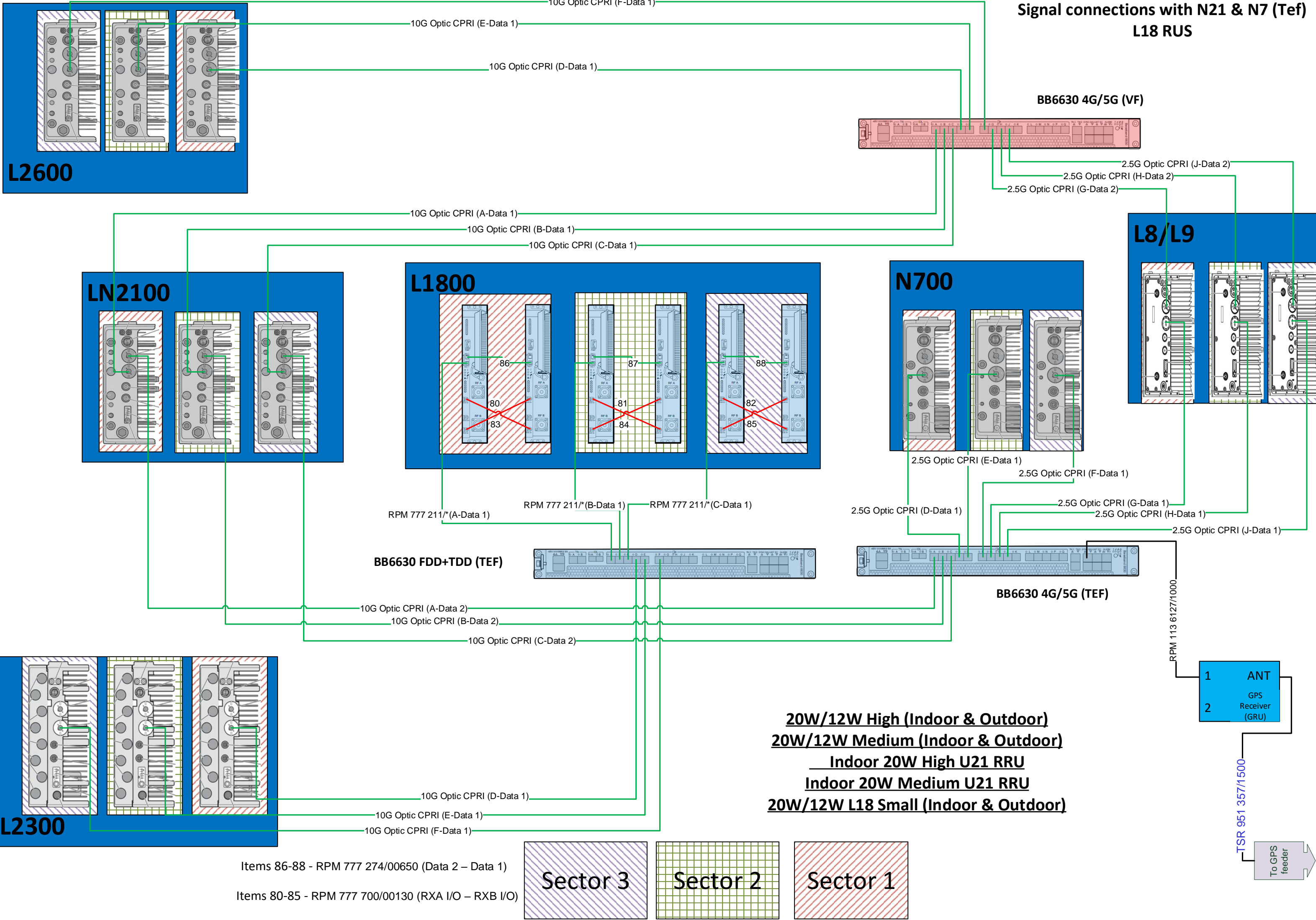


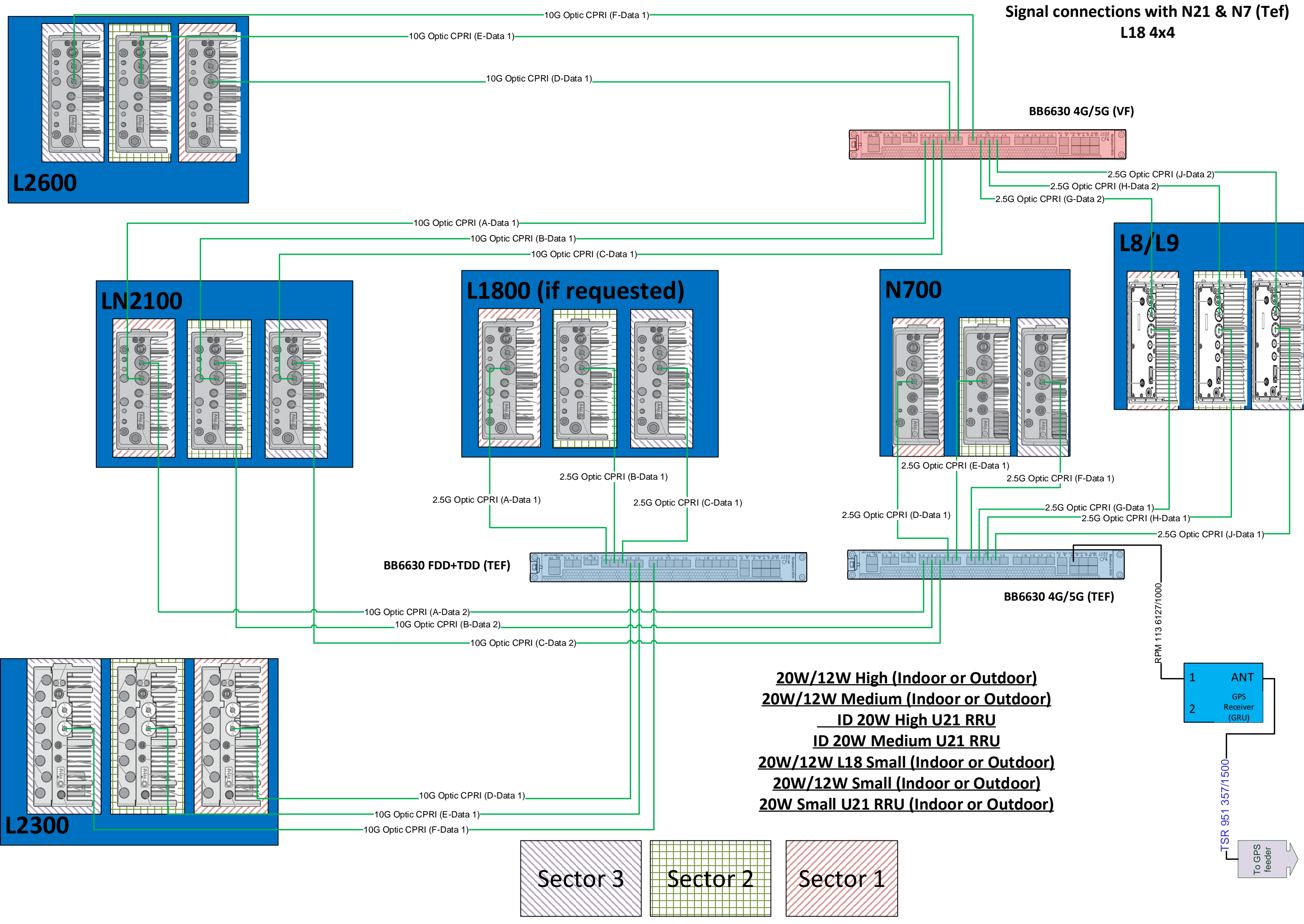
# Signal connections For L1800 RUS Baseline



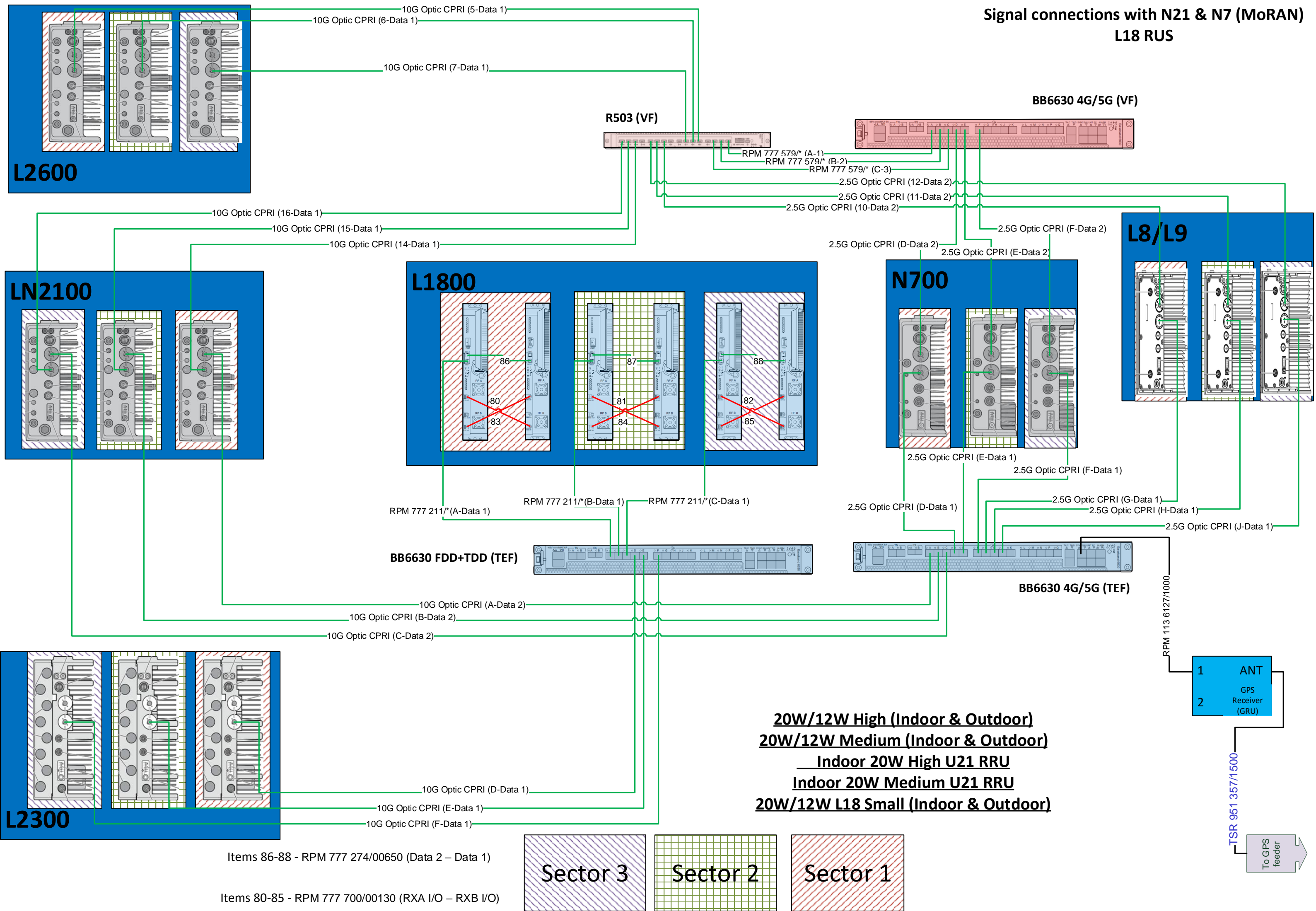




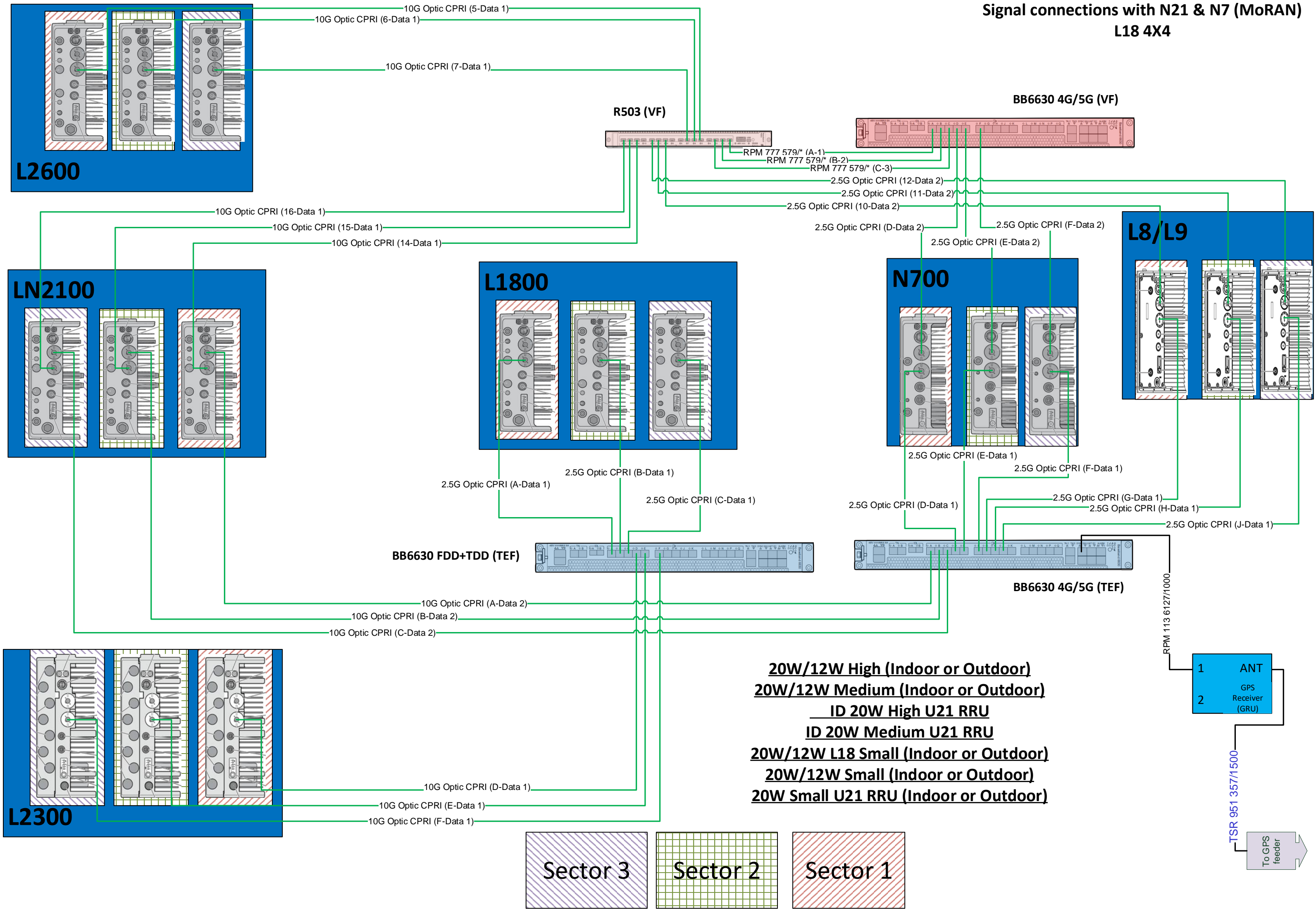




# Signal connections with N21 & N7 (MoRAN) L18 RUS

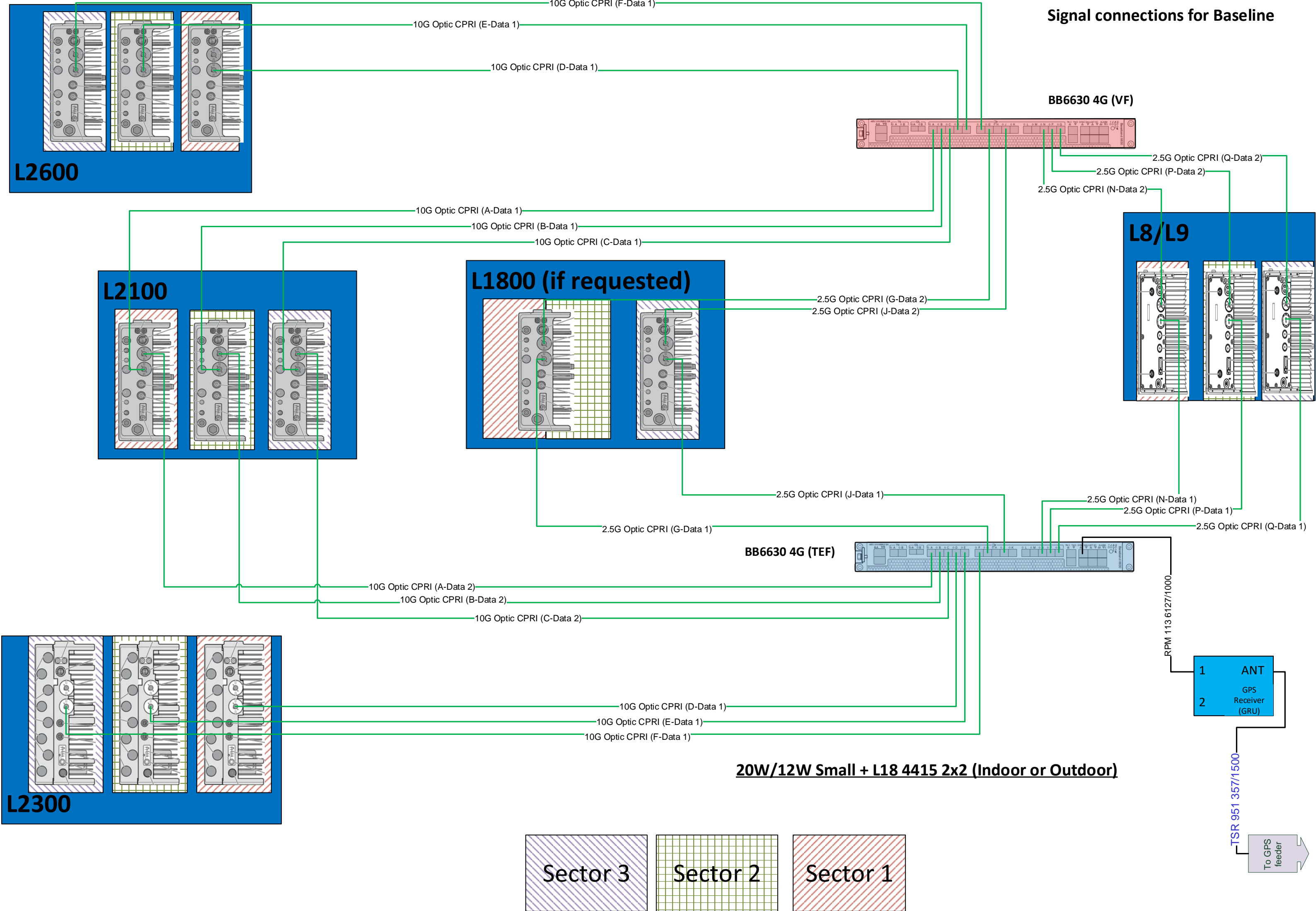


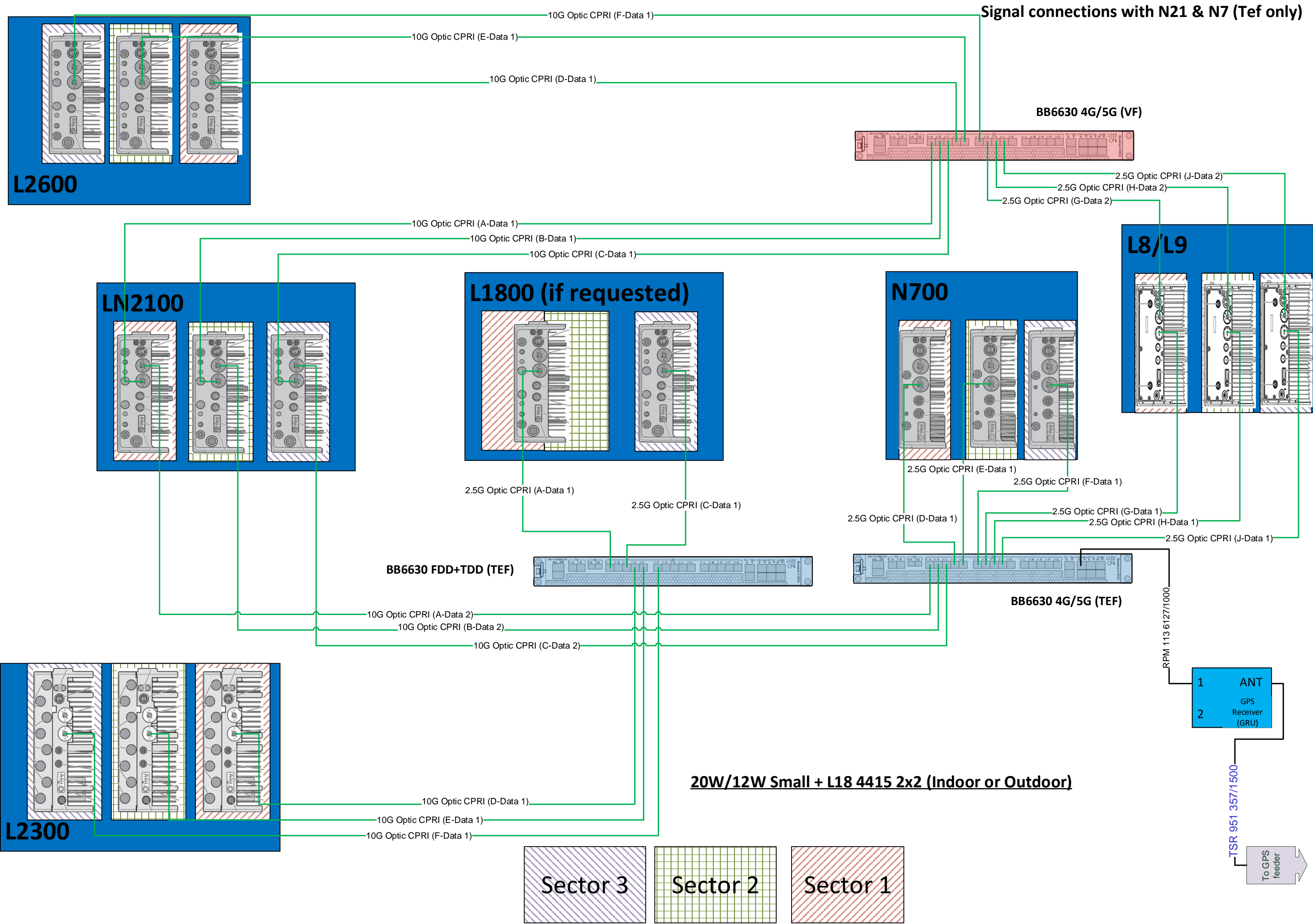
Signal connections with N21 & N7 (MoRAN)  
L18 4X4





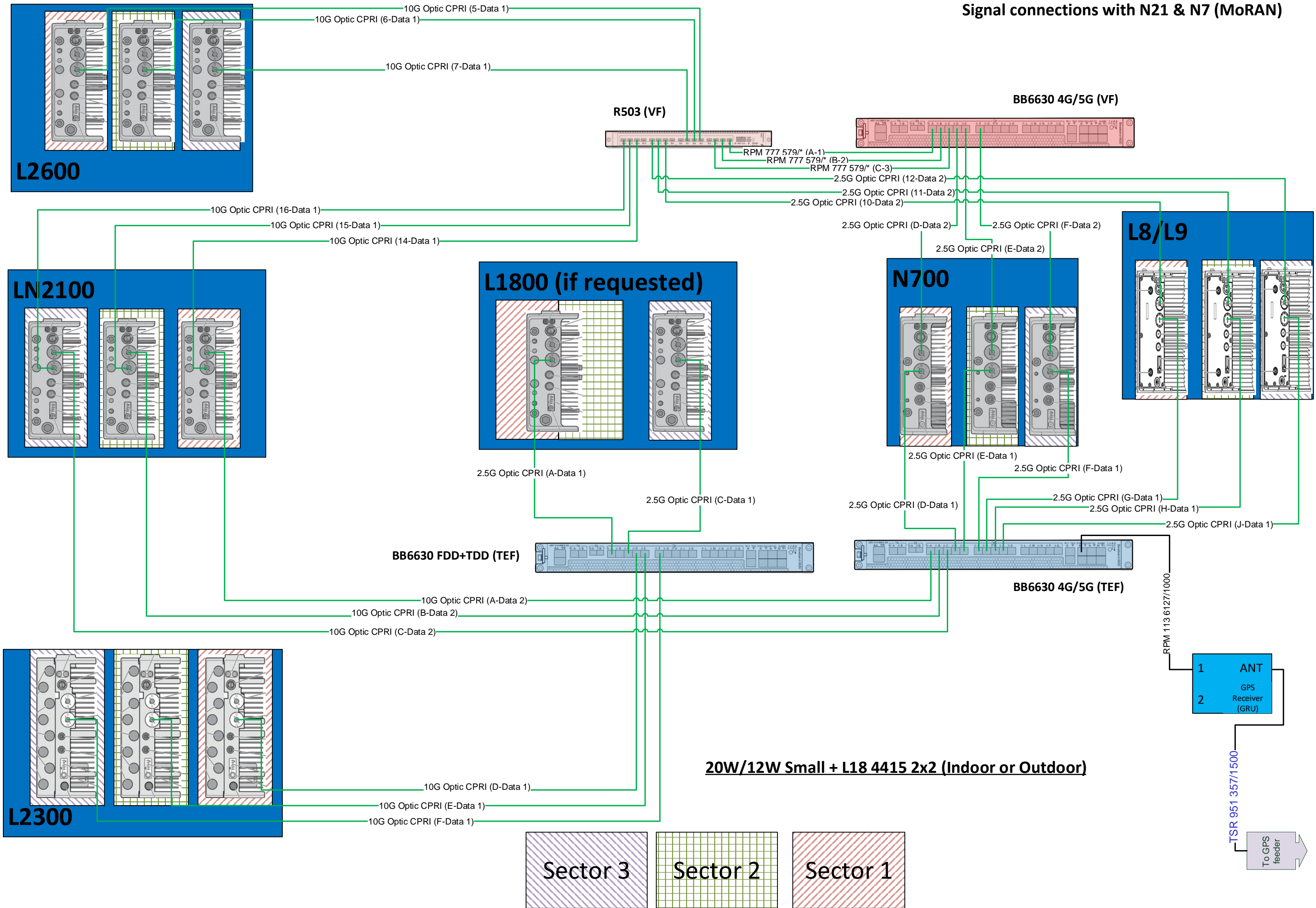
Signal connections for Baseline

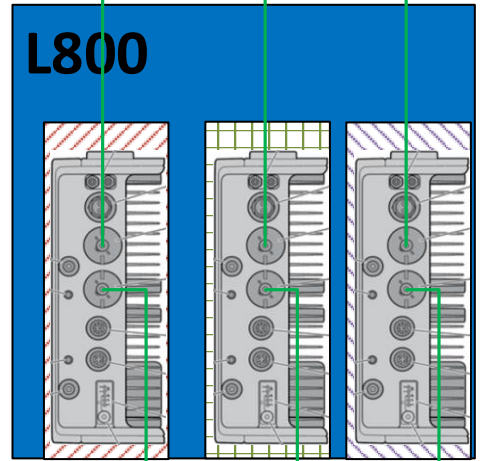
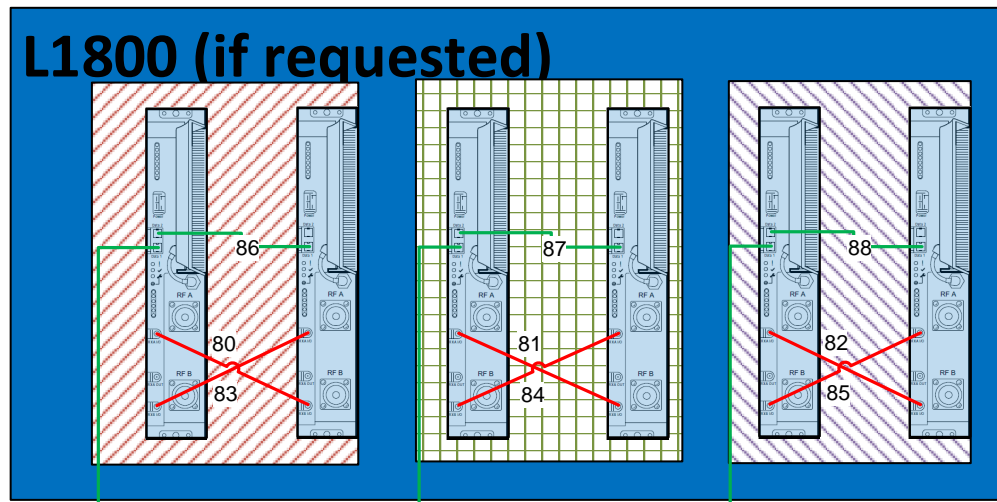
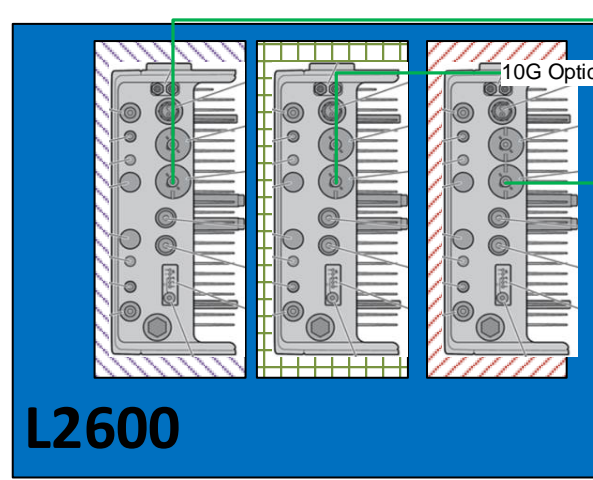
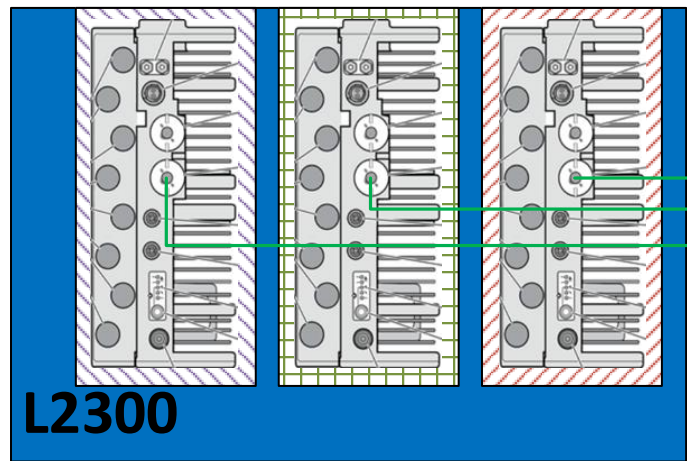
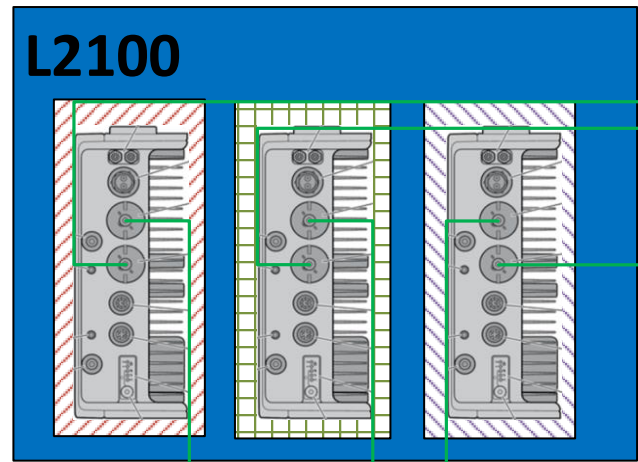
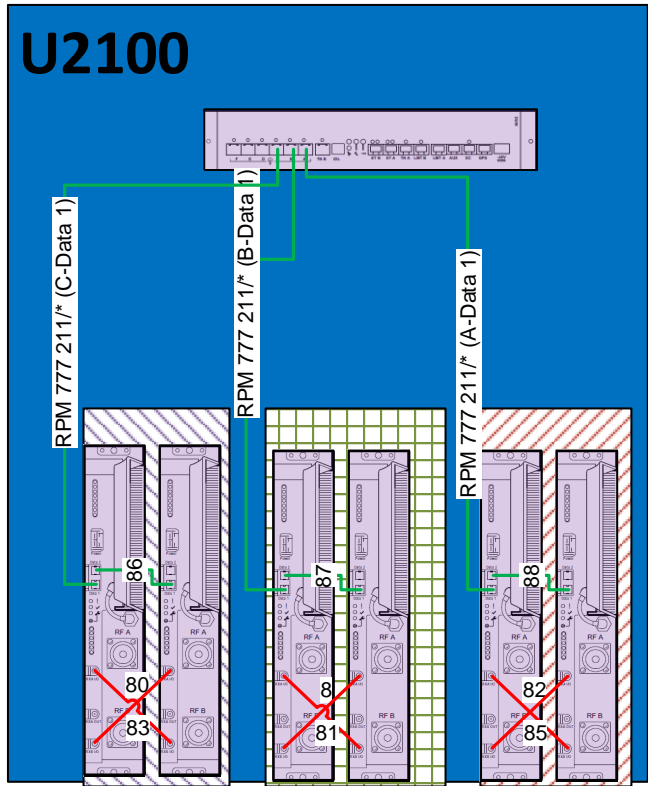






Signal connections with N21 & N7 (MoRAN)





## Signal connections for Baseline

BB6630 4G (VF)

10G Optic CPRI (F-Data 1)

10G Optic CPRI (E-Data 1)

10G Optic CPRI (D-Data 1)

2.5G Optic CPRI (Q-Data 2)

2.5G Optic CPRI (P-Data 2)

2.5G Optic CPRI (N-Data 2)

2.5G Optic CPRI (A-Data 1)

2.5G Optic CPRI (B-Data 1)

2.5G Optic CPRI (C-Data 1)

L1800 (if requested)

86

87

88

80

81

82

83

84

85

RPM 777 211/\* (J-Data 1)

RPM 777 211/\* (H-Data 1)

RPM 777 211/\* (G-Data 1)

2.5G Optic CPRI (N-Data 1)

2.5G Optic CPRI (P-Data 1)

2.5G Optic CPRI (Q-Data 1)

BB6630 4G (TEF)

2.5G Optic CPRI (A-Data 2)

2.5G Optic CPRI (B-Data 2)

2.5G Optic CPRI (C-Data 2)

10G Optic CPRI (D-Data 1)

10G Optic CPRI (E-Data 1)

10G Optic CPRI (F-Data 1)

RPM 113 6127/1000

1 ANT  
2 GPS Receiver (GRU)

TSR 951 357/1500

To GPS feeder

20W Network Rail (Indoor or Outdoor)  
20W Network Rail No-L18 (Indoor or Outdoor)

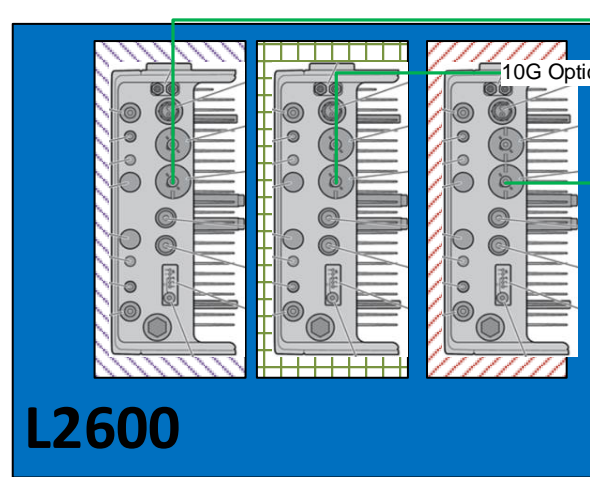
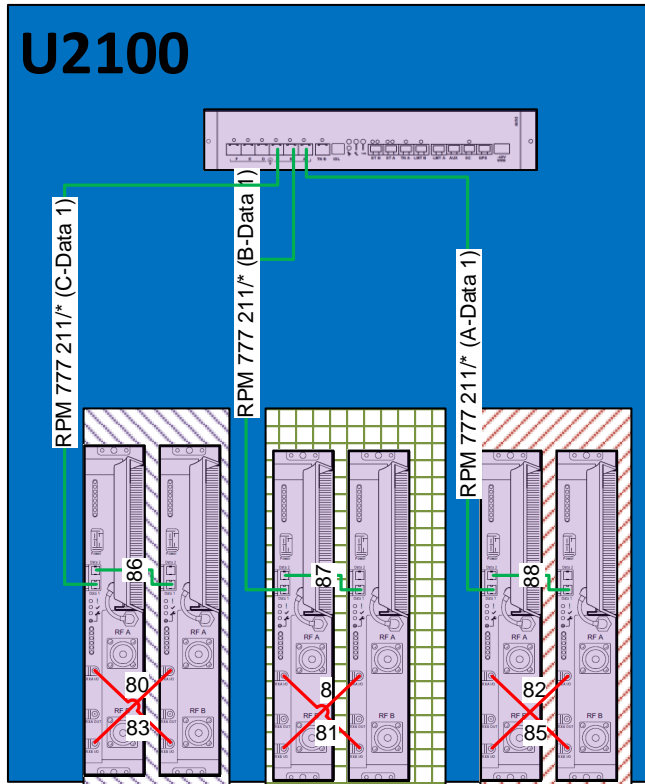
Items 86-88 - RPM 777 274/00650 (Data 2 – Data 1)

Items 80-85 - RPM 777 700/00130 (RXA I/O – RXB I/O)

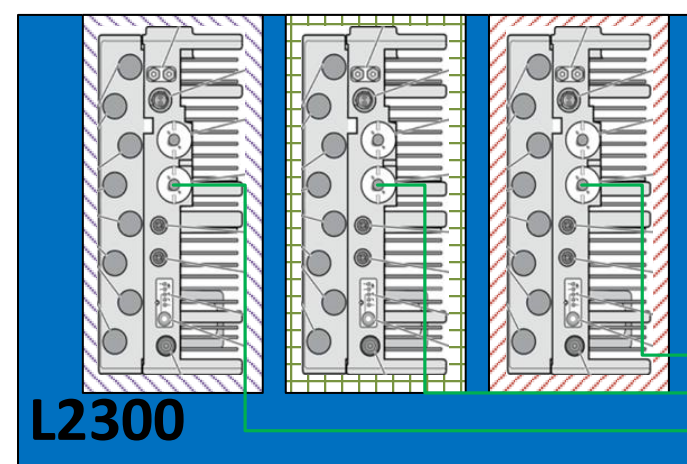
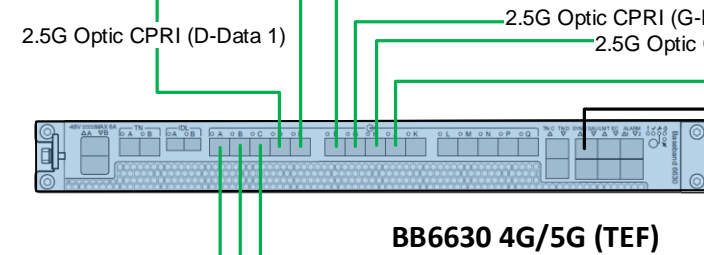
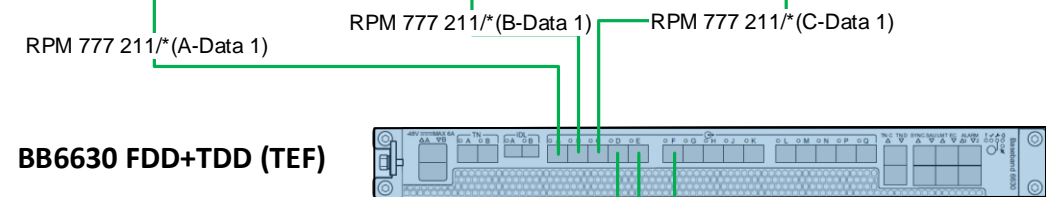
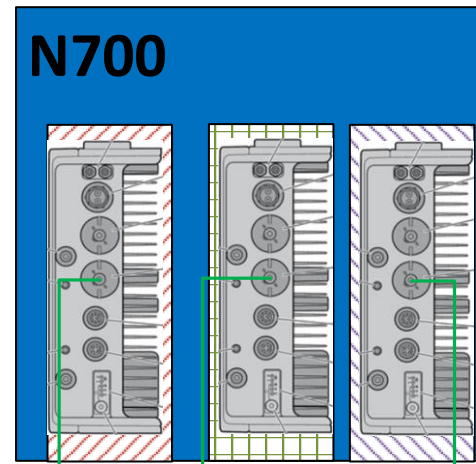
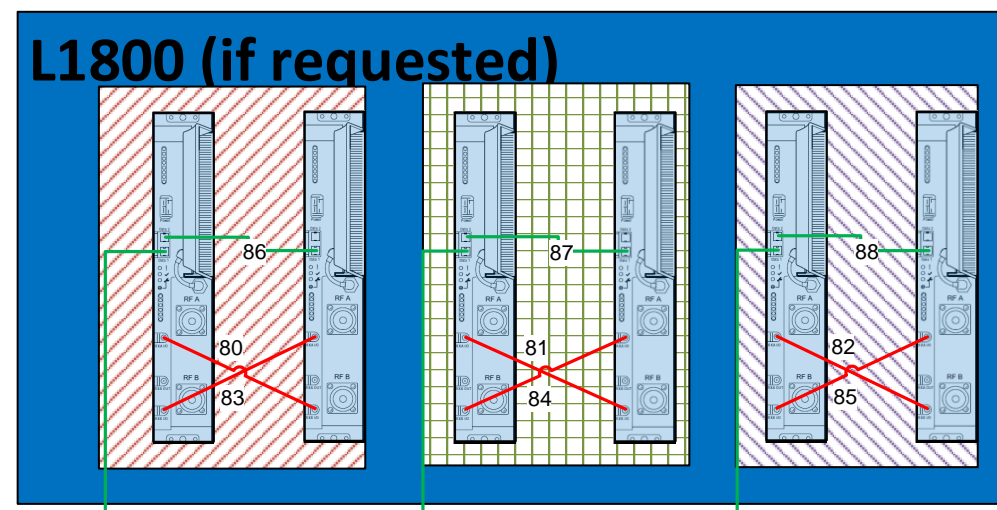
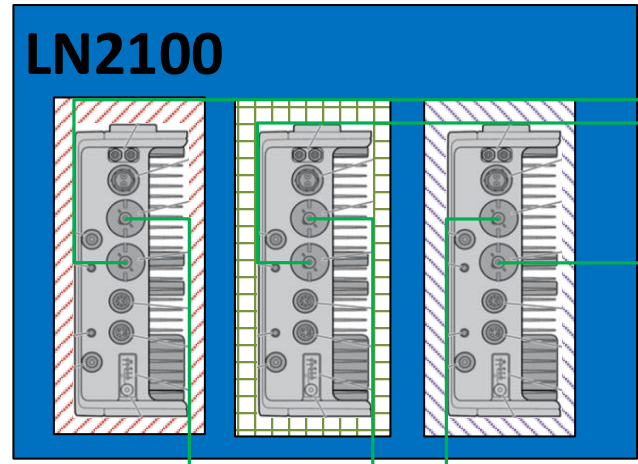
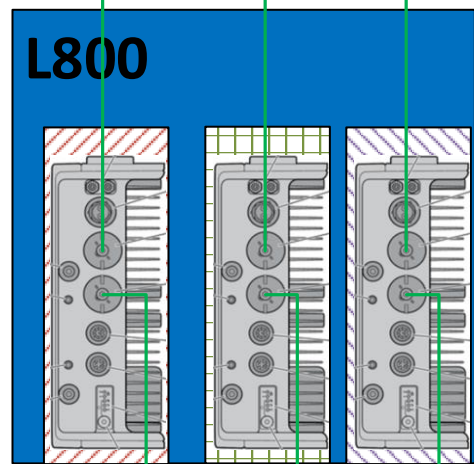
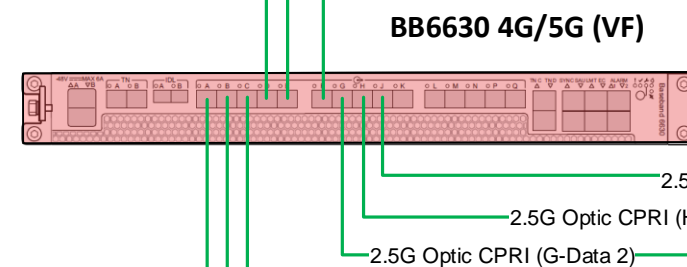
Sector 3

Sector 2

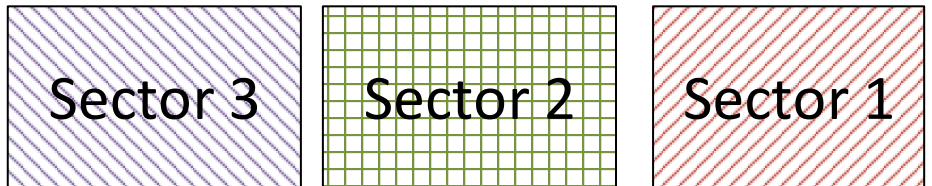
Sector 1



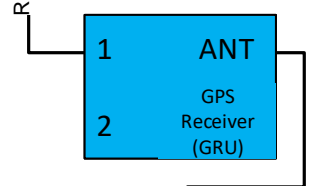
**Signal connections with N21 & N7 (Tef)**



Items 86-88 - RPM 777 274/00650 (Data 2 – Data 1)  
Items 80-85 - RPM 777 700/00130 (RXA I/O – RXB I/O)



**20W Network Rail (Indoor or Outdoor)**  
**20W Network Rail No-L18 (Indoor or Outdoor)**

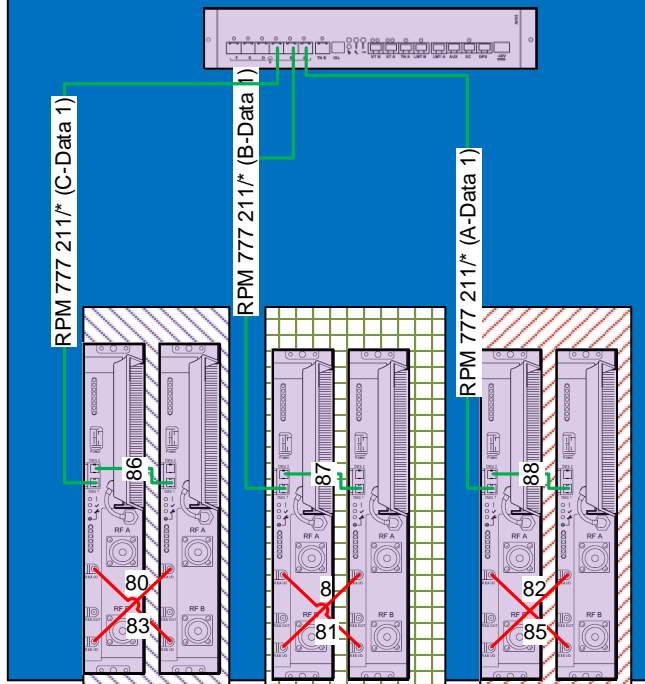


TSR 951 357/1500

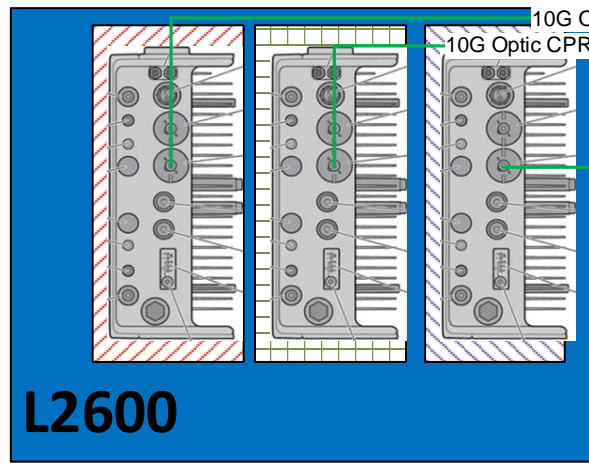




# U2100



# L2600

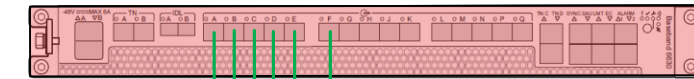


# R503 (VF)

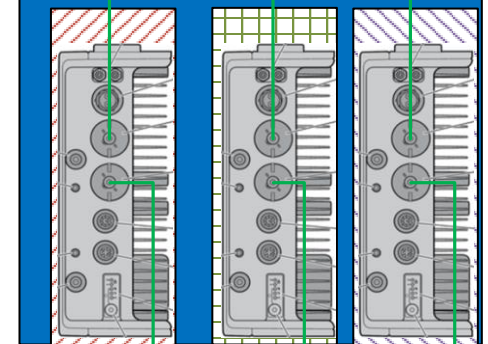


# Signal connections with N21 & N7 (MoRAN)

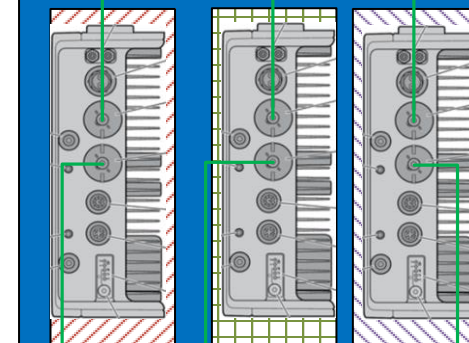
# BB6630 4G/5G (VF)



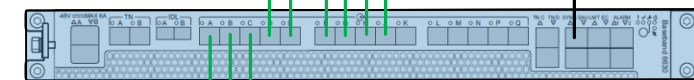
# L800



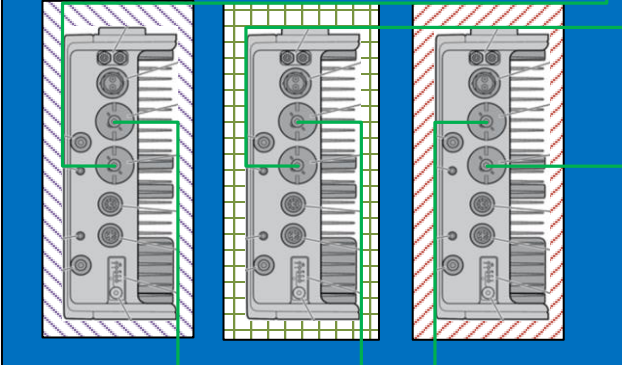
# N700



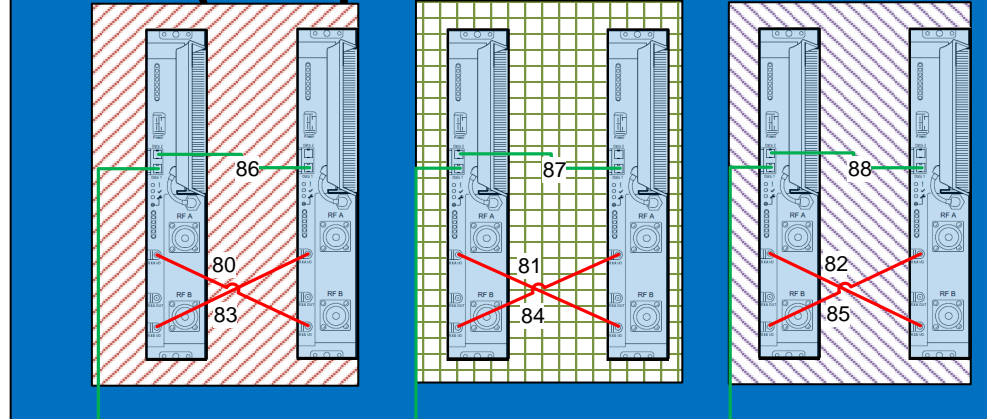
# BB6630 4G/5G (TEF)



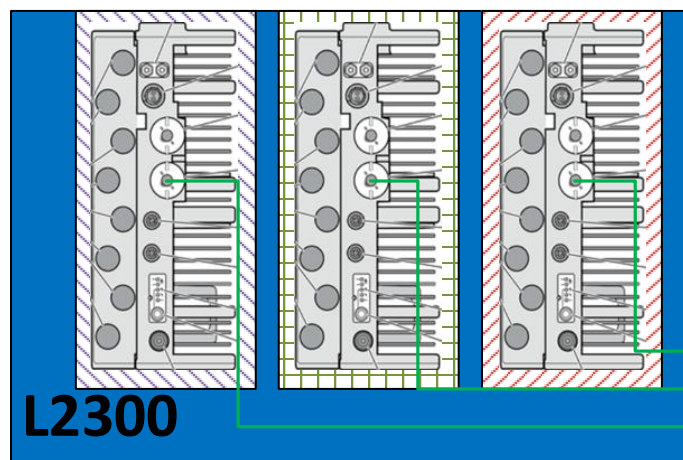
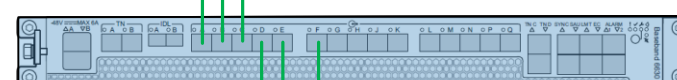
# LN2100



# L1800 (if requested)



# BB6630 FDD+TDD (TEF)



# L2300

Items 86-88 - RPM 777 274/00650 (Data 2 – Data 1)

Items 80-85 - RPM 777 700/00130 (RXA I/O – RXB I/O)

Sector 3

Sector 2

Sector 1

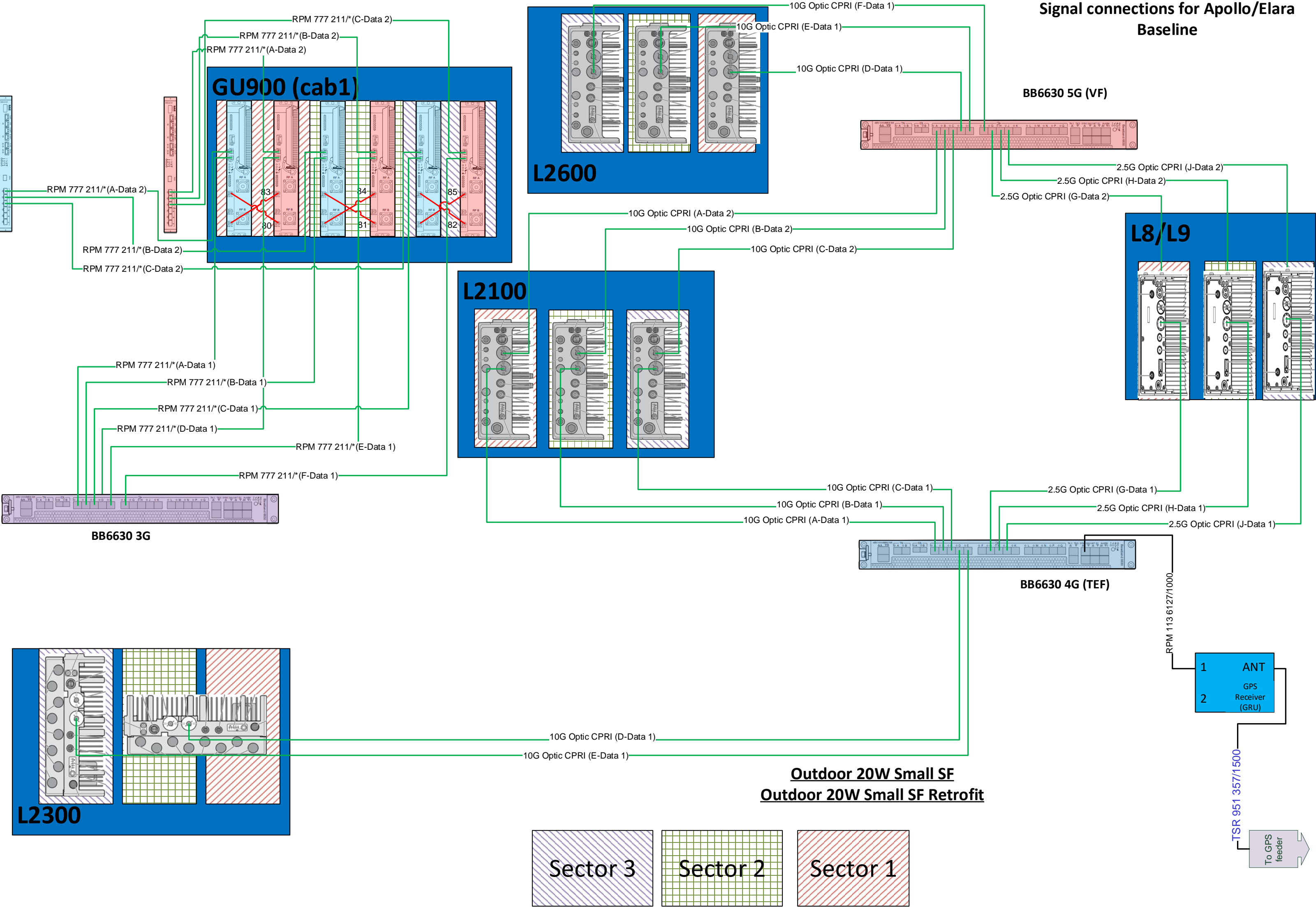
20W Network Rail (Indoor or Outdoor)  
20W Network Rail No-L18 (Indoor or Outdoor)

1 ANT  
2 GPS Receiver (GRU)

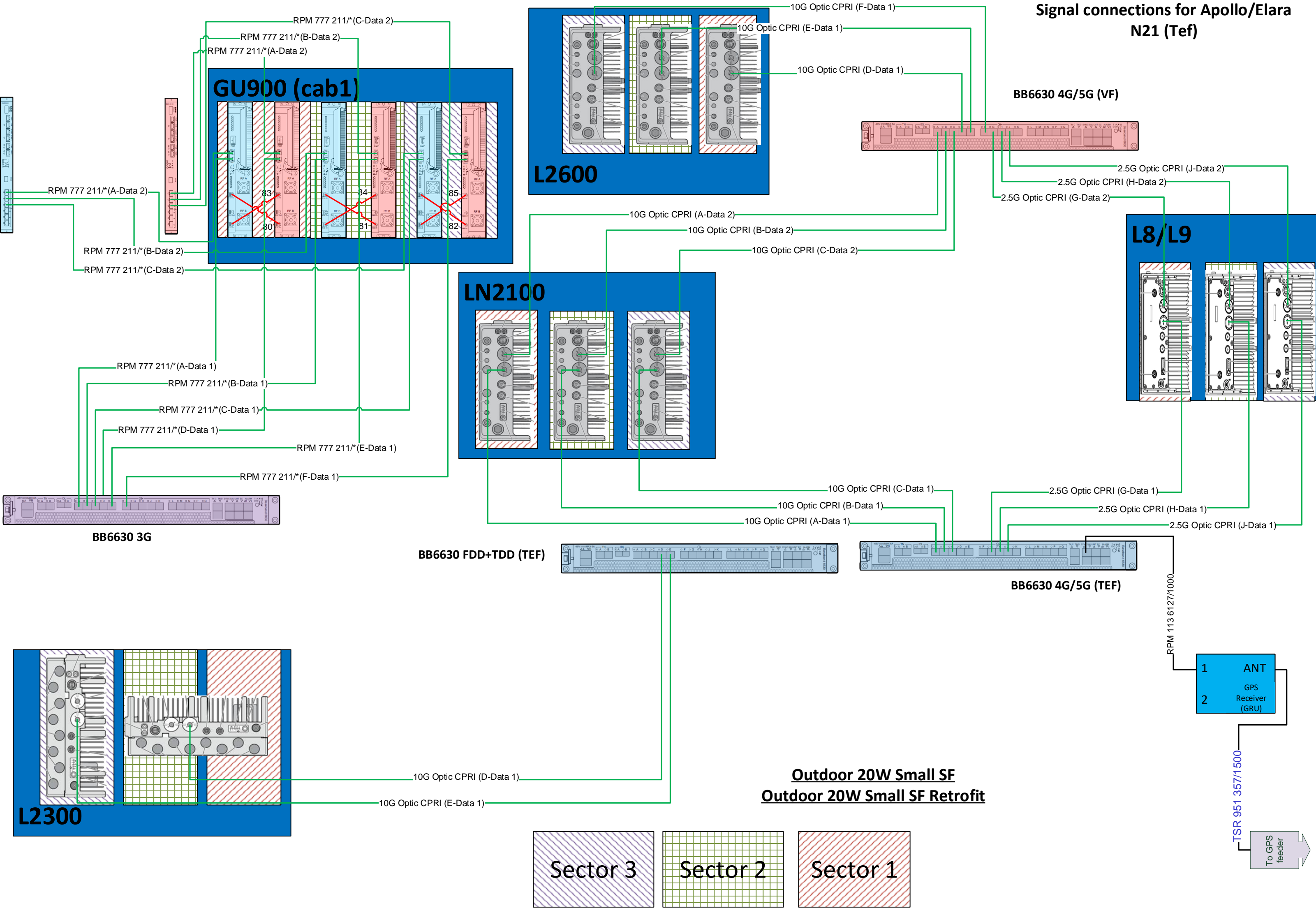
TSR 951 357/1500

To GPS feeder

Signal connections for Apollo/Elara  
Baseline

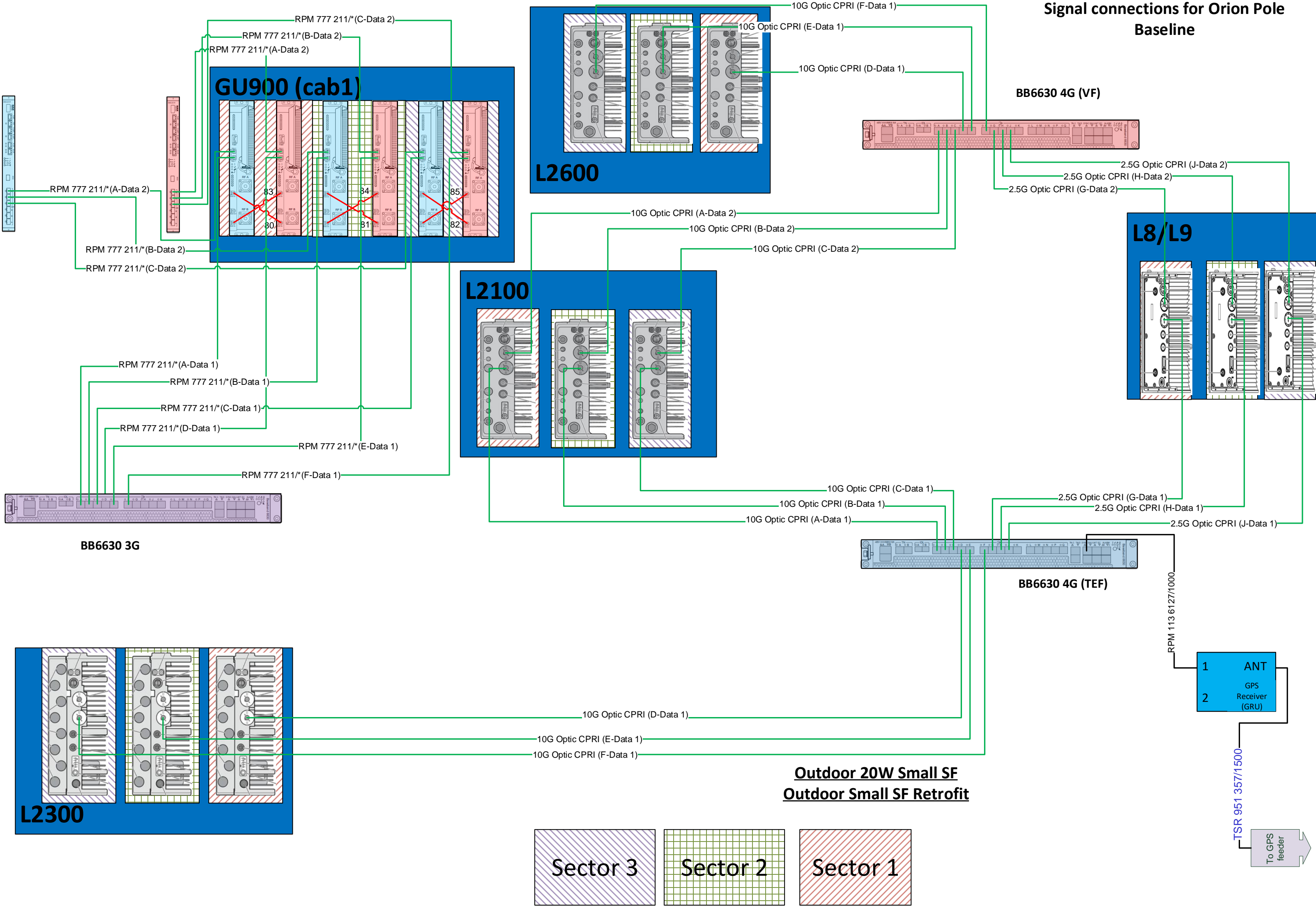


Signal connections for Apollo/Elara  
N21 (Tef)

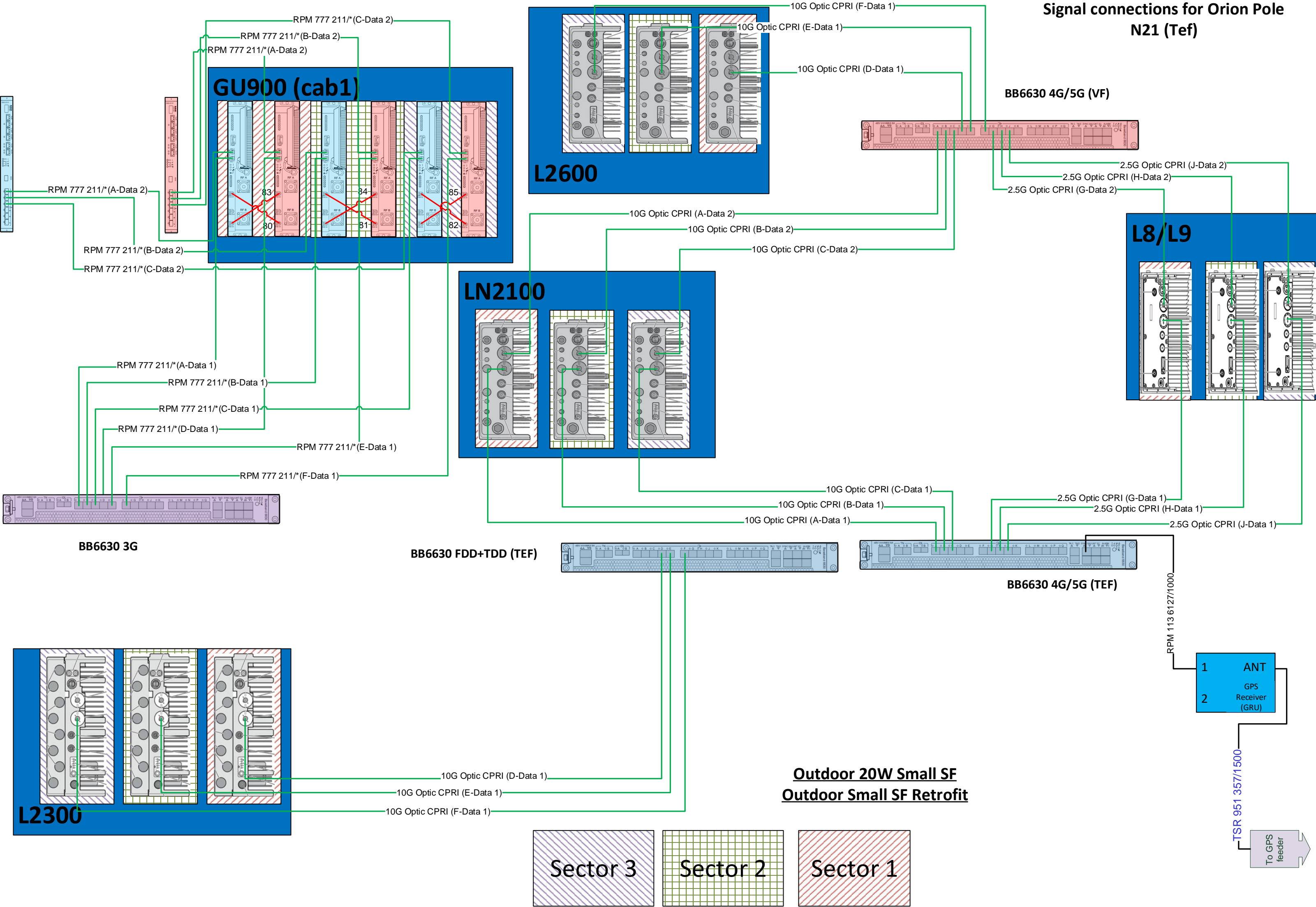




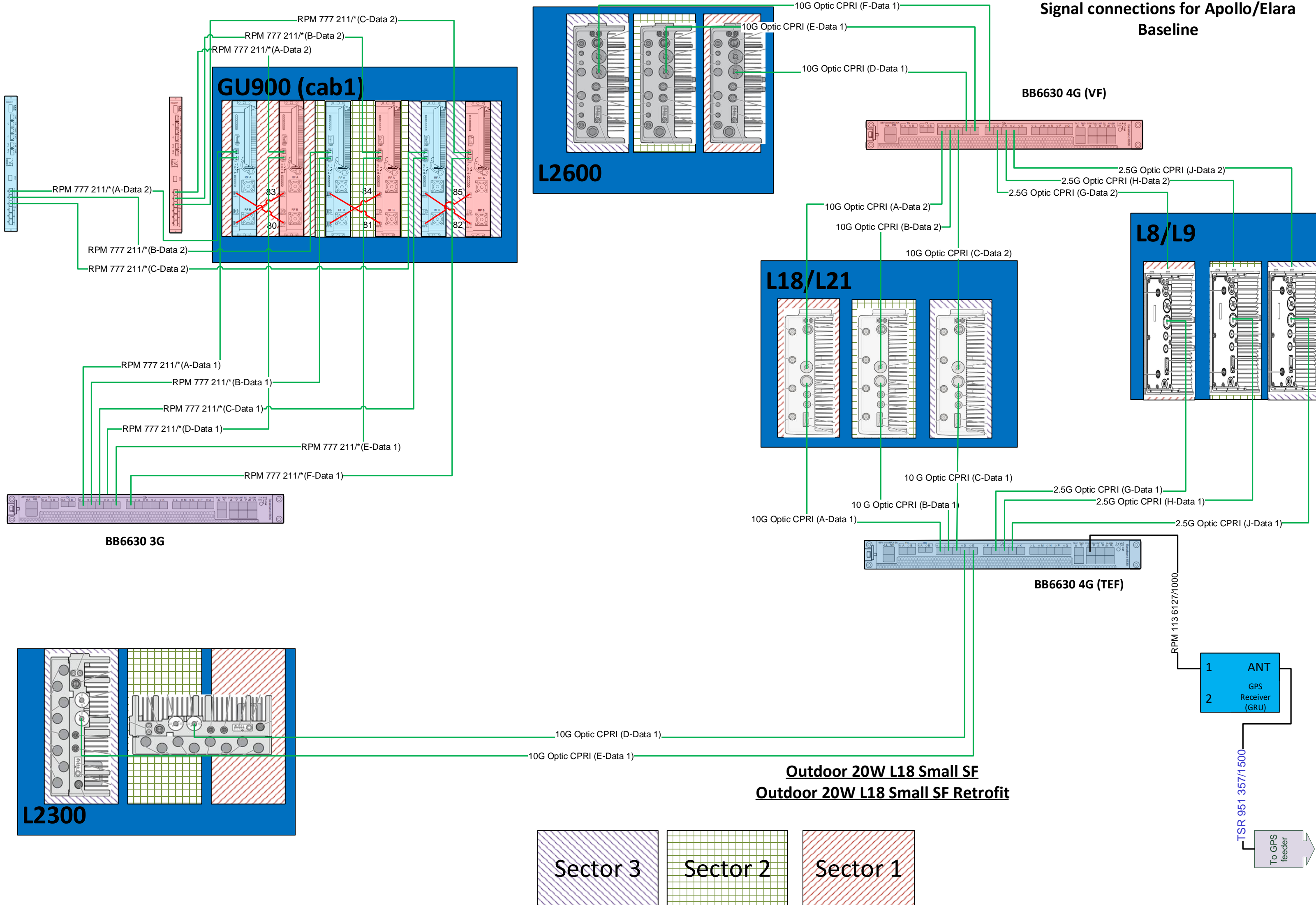
Signal connections for Orion Pole  
Baseline



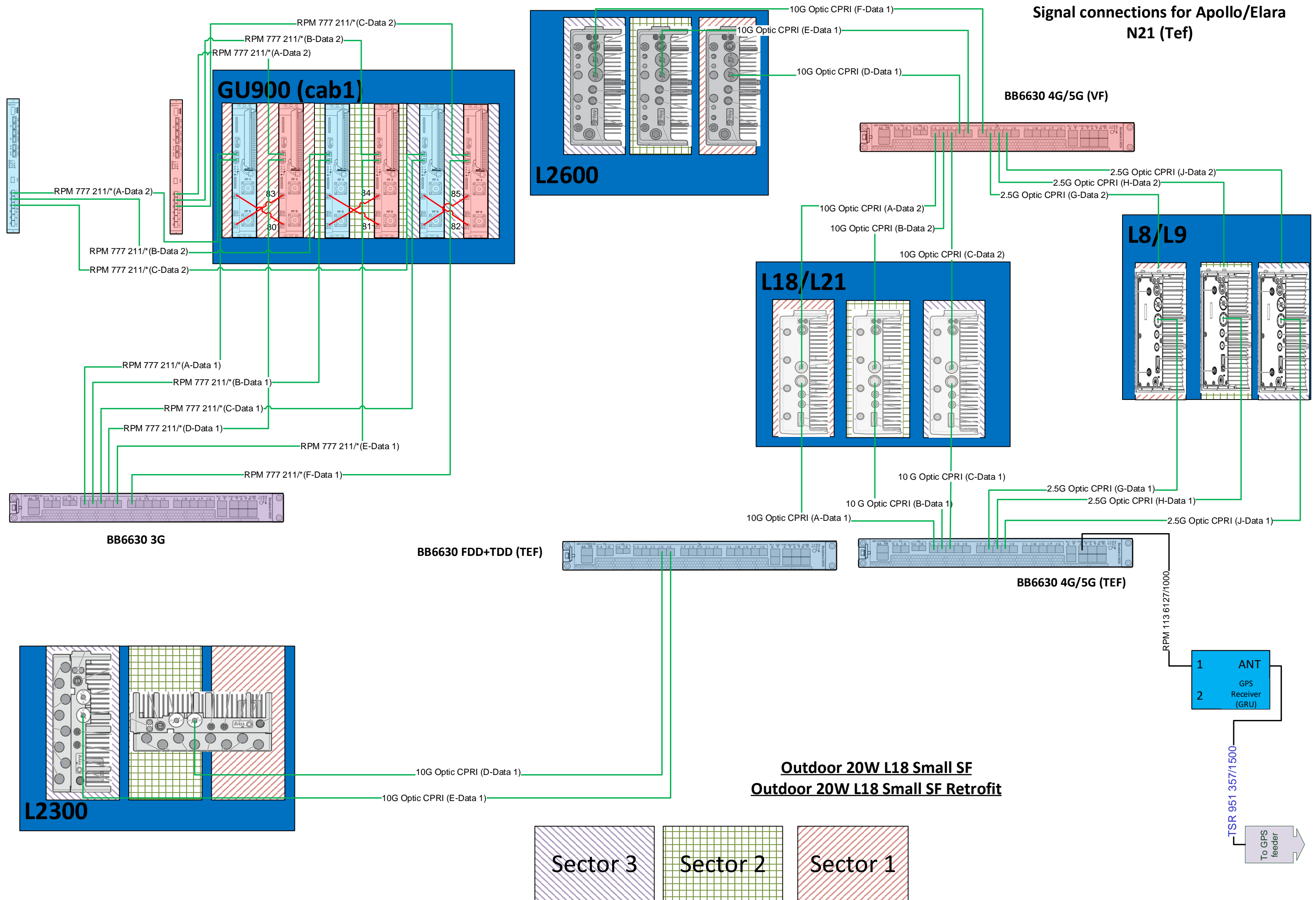
Signal connections for Orion Pole  
N21 (Tef)

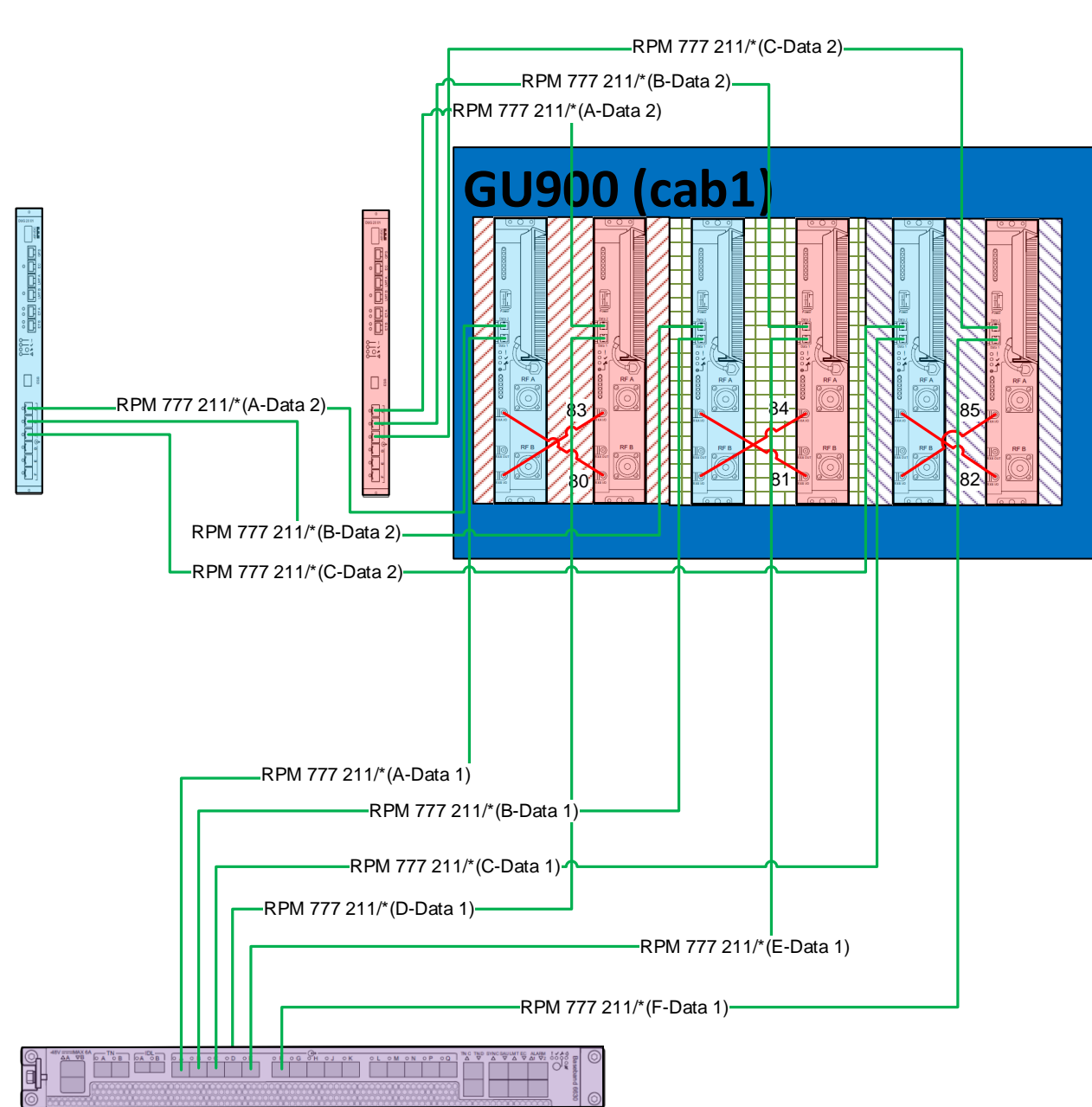


Signal connections for Apollo/Elara  
Baseline

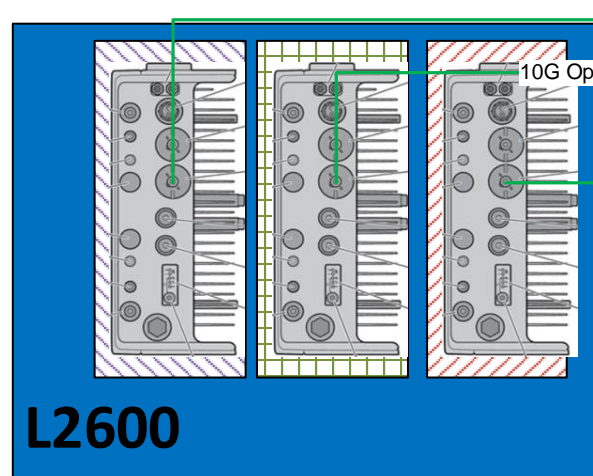








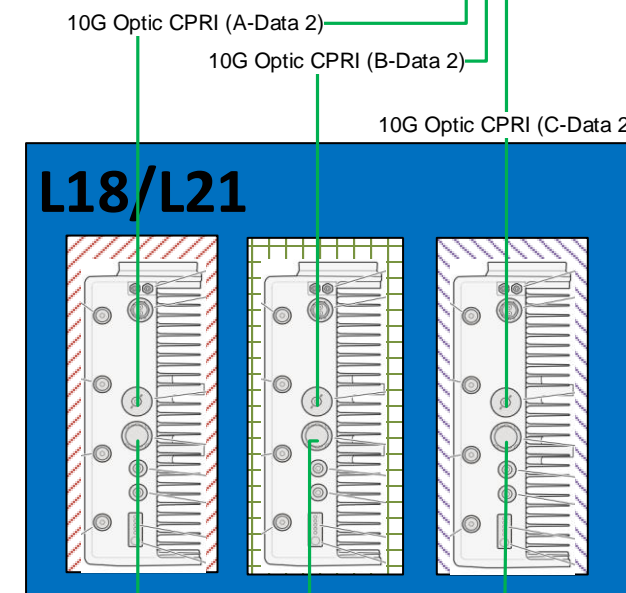
BB6630 3G



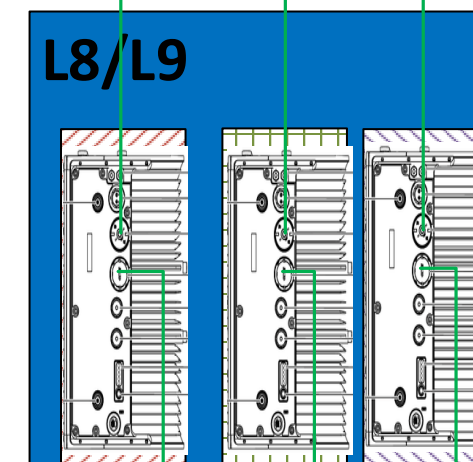
L2600

## Signal connections for Orion Pole Baseline

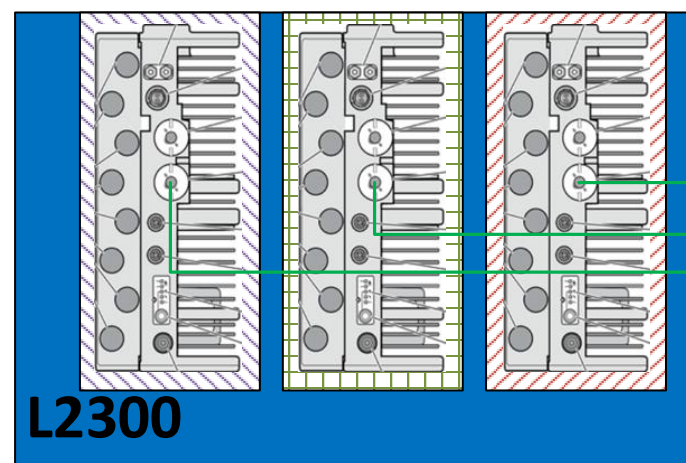
BB6630 4G (VF)



L18/L21



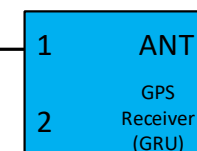
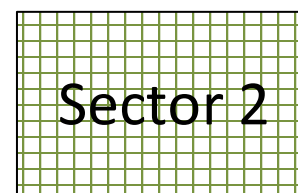
L8/L9



L2300

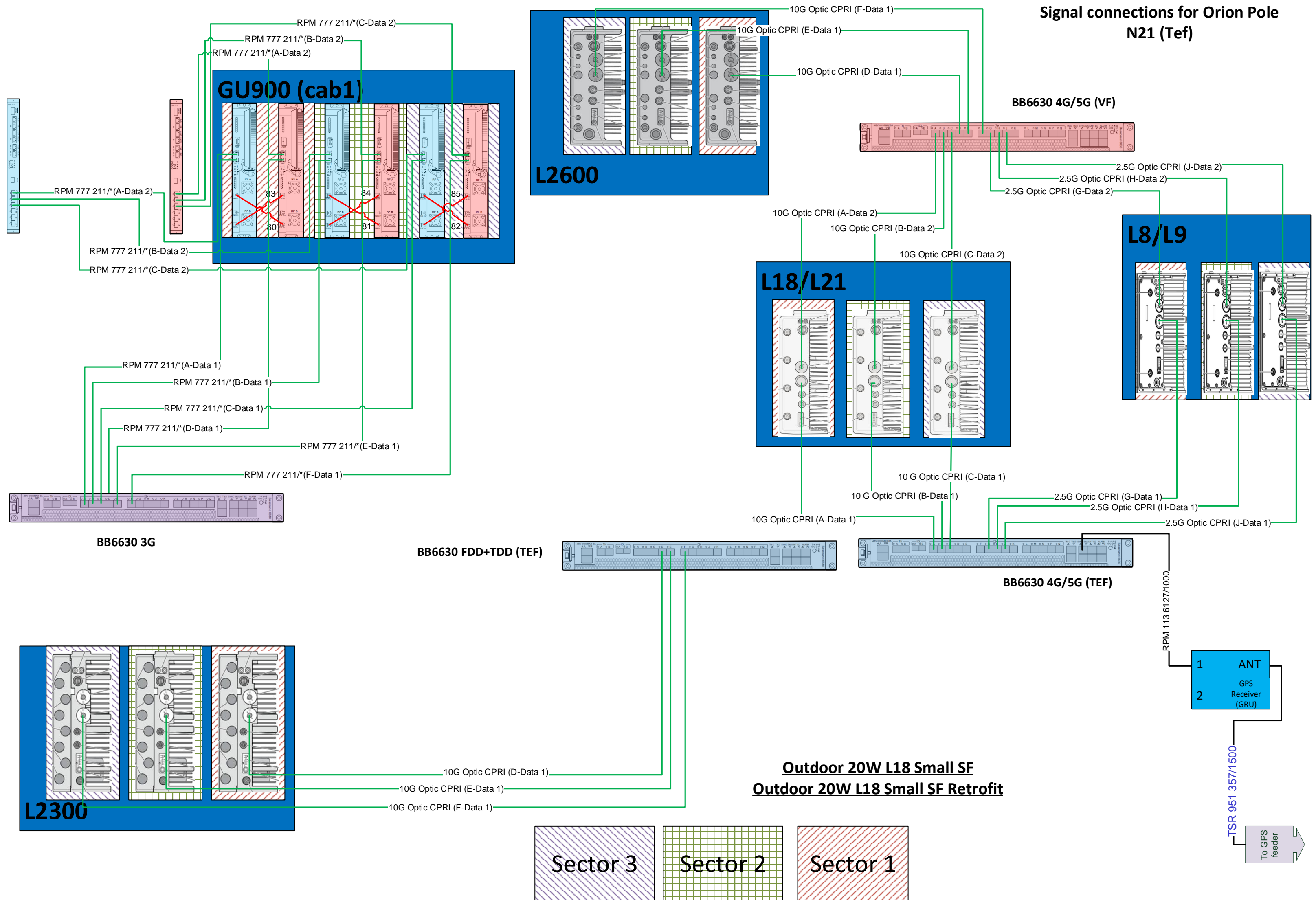
BB6630 4G (TEF)

## Outdoor 20W L18 Small SF Outdoor 20W L18 Small SF Retrofit

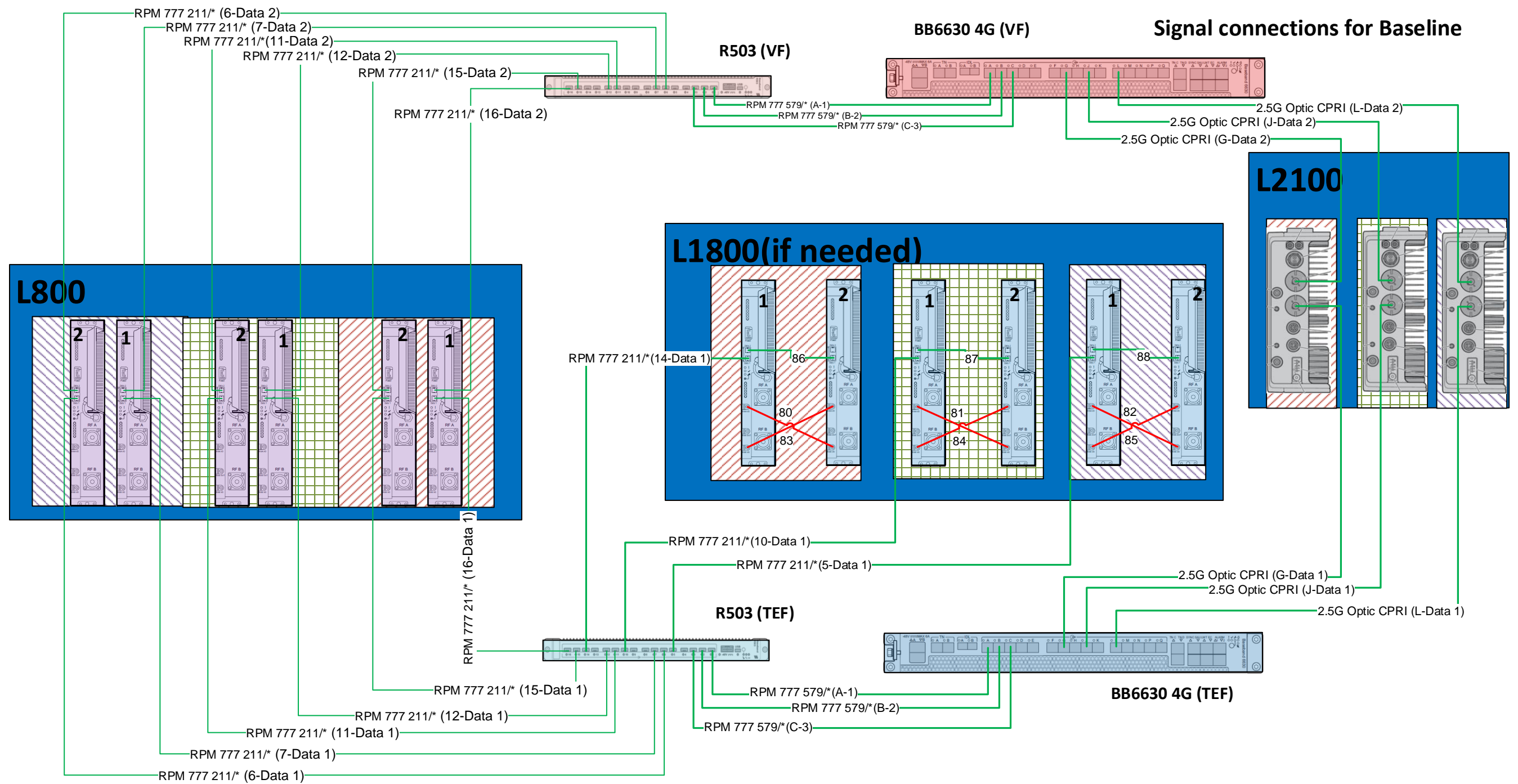


TSR 951 357/1500



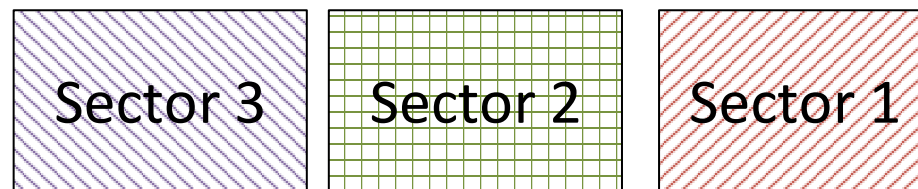






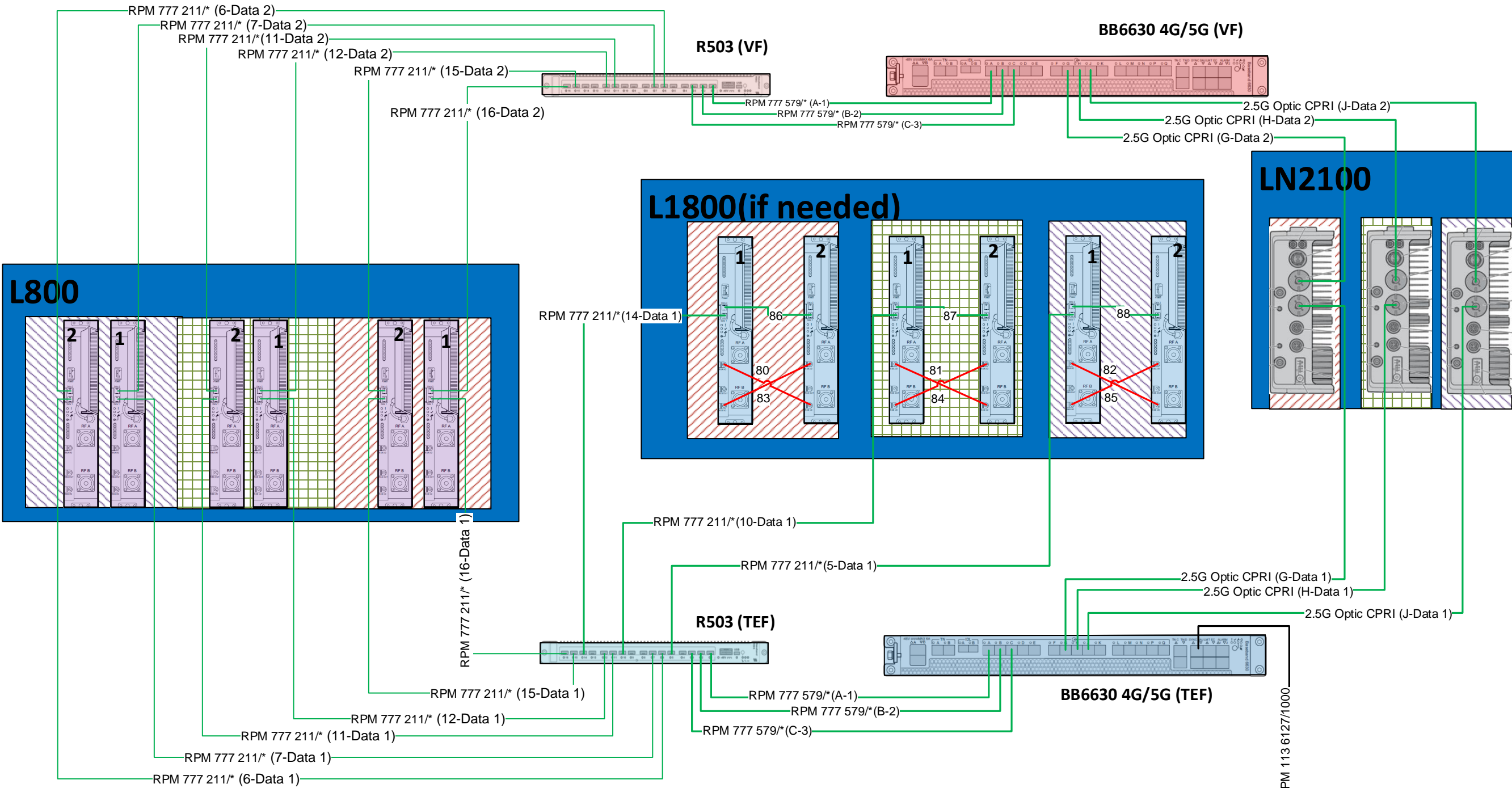
Items 86-88 - RPM 777 274/00650 (Data 2 – Data 1)

Items 80-85 - RPM 777 700/00130 (RXA I/O – RXB I/O)



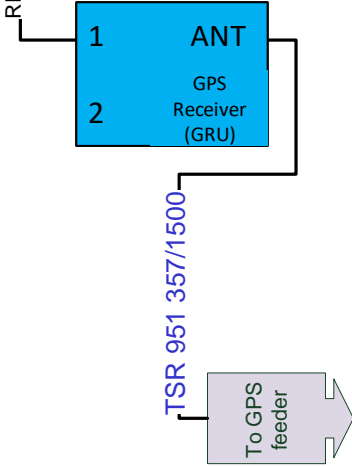
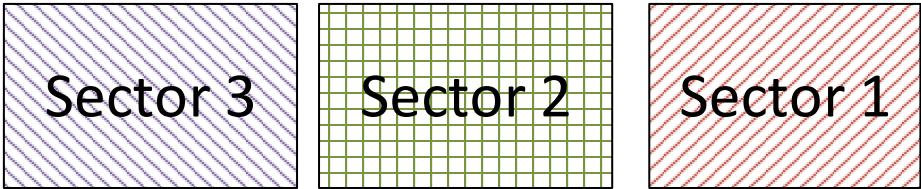
**20W Stealth (Indoor or Outdoor)**

Signal connections with N21 (Tef)

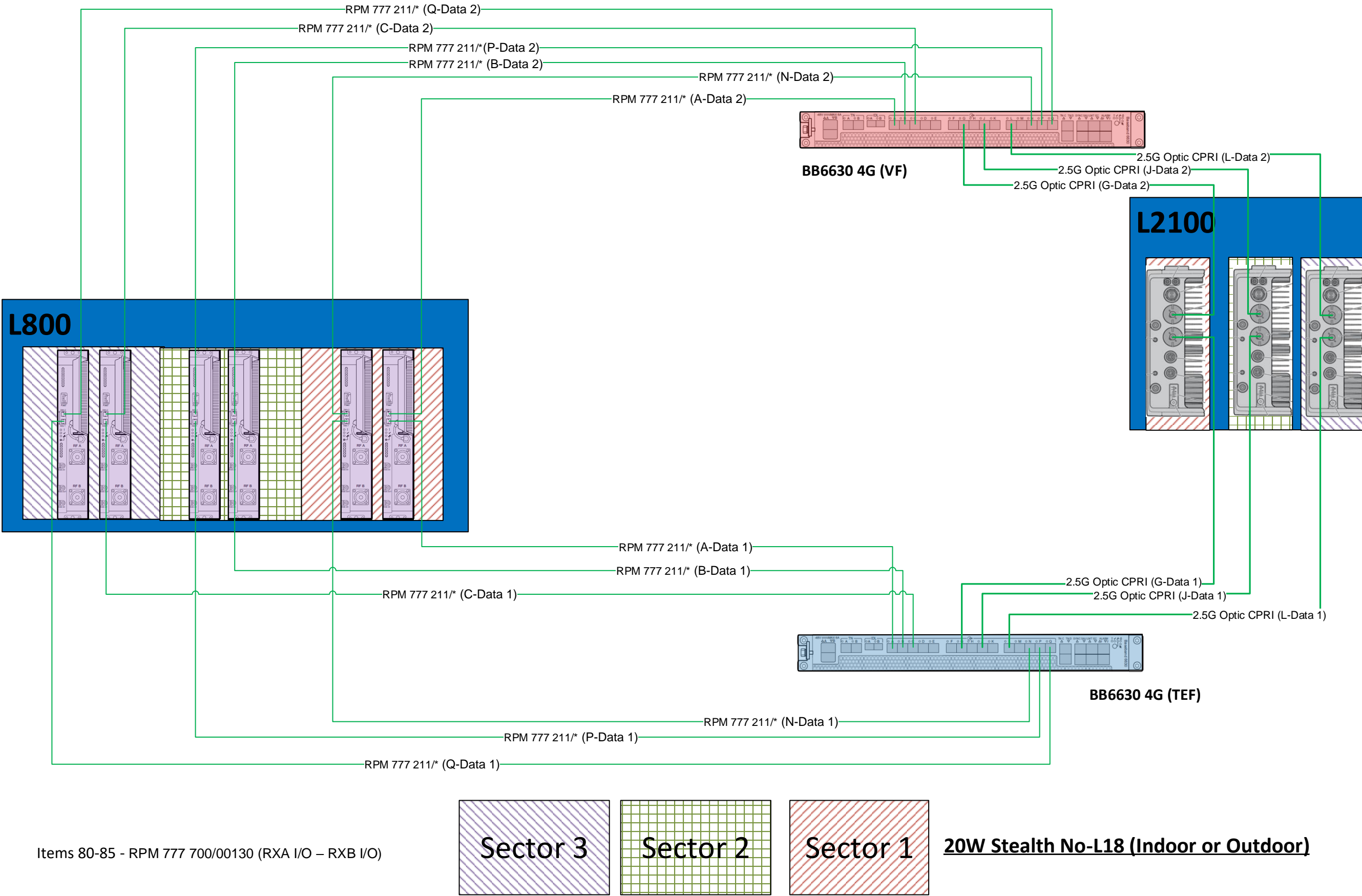


20W Stealth (Indoor or Outdoor)

Items 86-88 - RPM 777 274/00650 (Data 2 – Data 1)  
Items 80-85 - RPM 777 700/00130 (RXA I/O – RXB I/O)

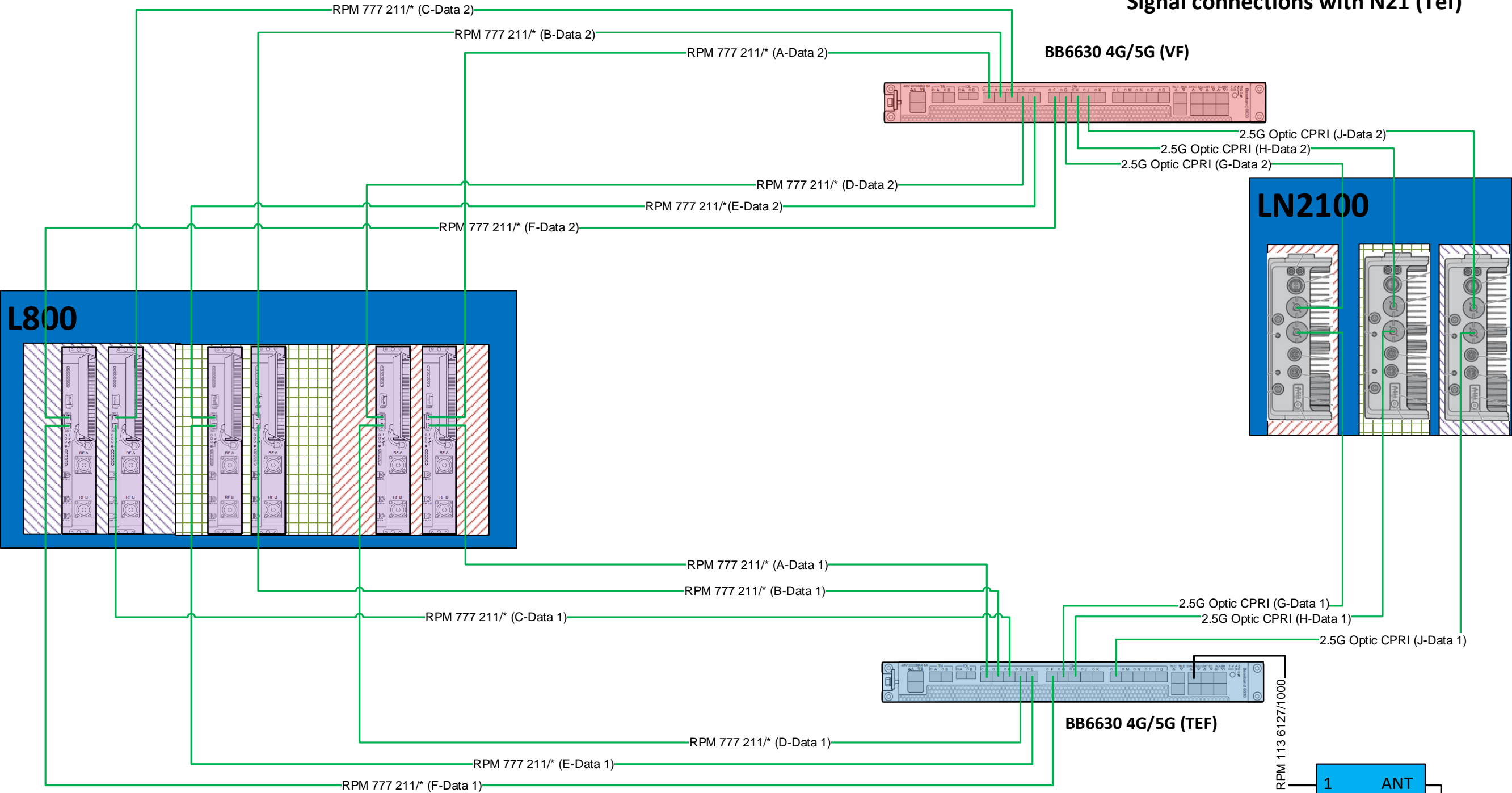


Signal connections for Baseline

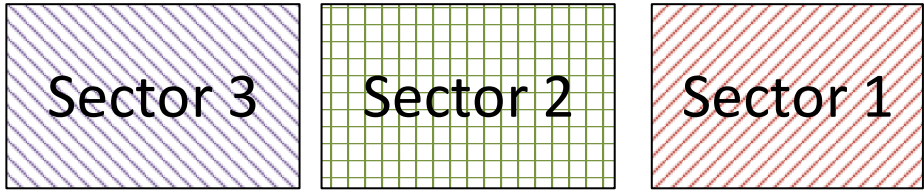




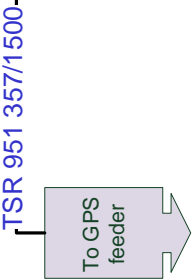
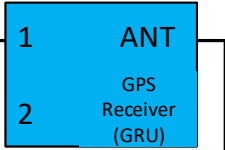
Signal connections with N21 (Tef)



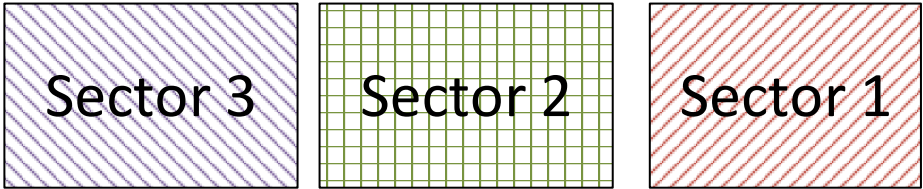
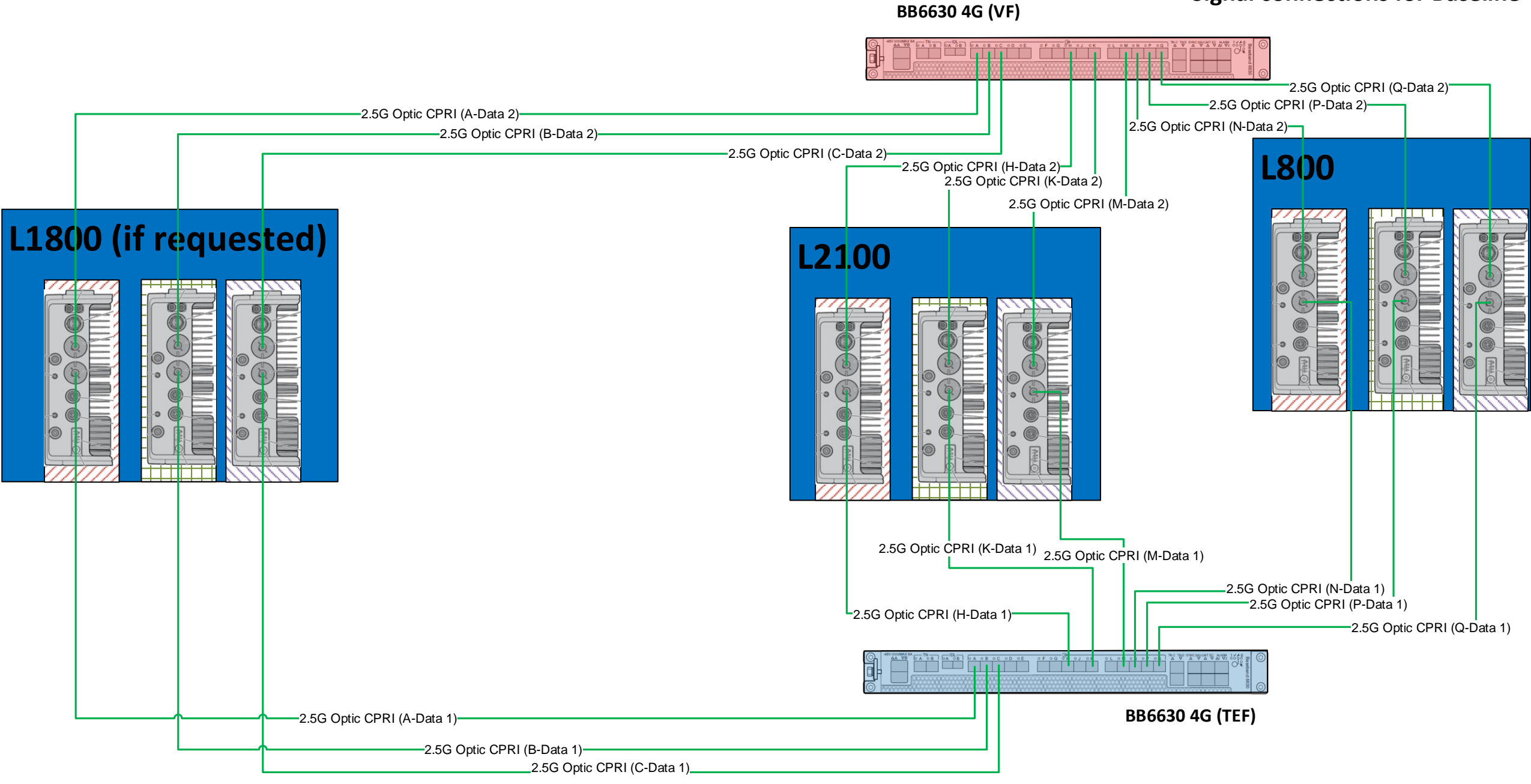
20W Stealth No-L18 (Indoor or Outdoor)



Items 80-85 - RPM 777 700/00130 (RXA I/O – RXB I/O)

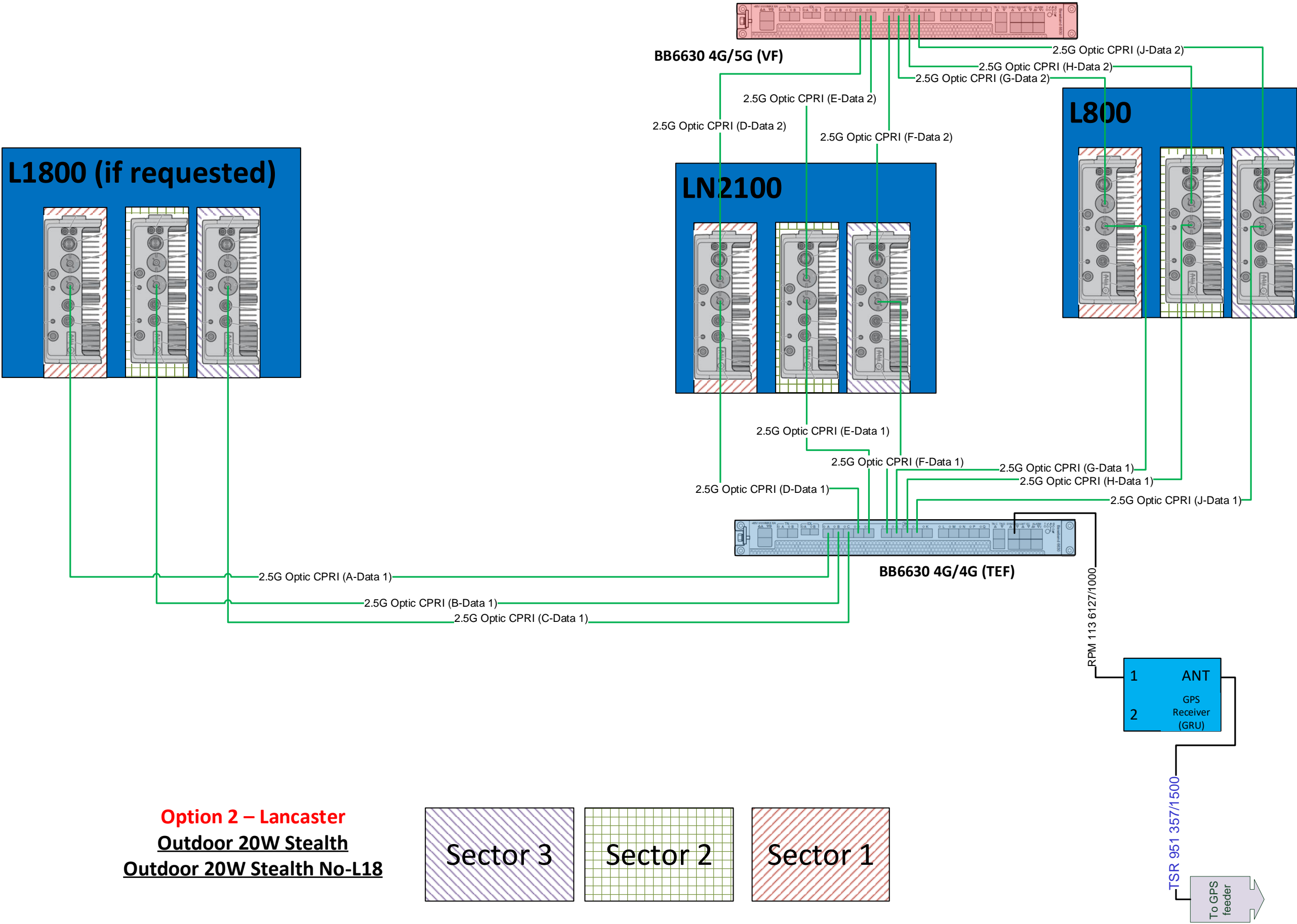


Signal connections for Baseline



**Option 2 – Lancaster**  
**Outdoor 20W Stealth**  
**Outdoor 20W Stealth No-L18**

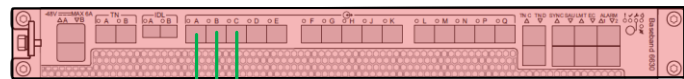
Signal connections with N21 (Tef)





## BB6630 4G (VF)

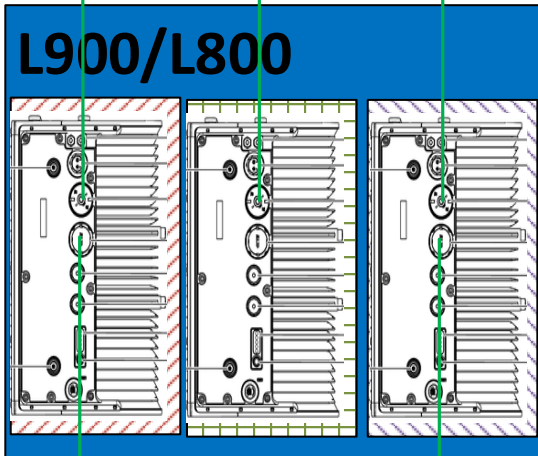
## Signal connections for Baseline



2.5G Optic CPRI (B-Data 2)

2.5G Optic CPRI (A-Data 2)

2.5G Optic CPRI (C-Data 2)

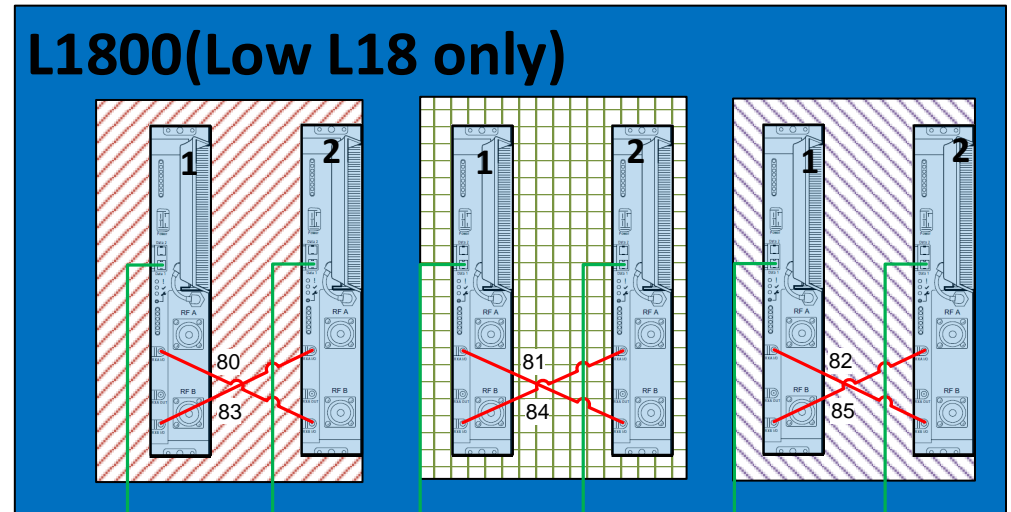


2.5G Optic CPRI (A-Data 1)

2.5G Optic CPRI (B-Data 1)

2.5G Optic CPRI (C-Data 1)

RPM 777 211/\*(G-Data 1)



80  
83

81  
84

82  
85

RPM 777 211/\*(H-Data 1)

RPM 777 211/\*(J-Data 1)

RPM 777 211/\*(F-Data 1)

RPM 777 211/\*(E-Data 1)

RPM 777 211/\*(D-Data 1)

## BB6630 4G (TEF)



**Indoor or Outdoor:**

**20W Low**

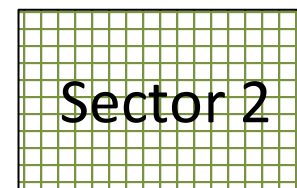
**20W Low L18**

**20W Low UNLR**

**20W Low Non-RRU 20W BB to 20W Low ULNR**



Sector 3

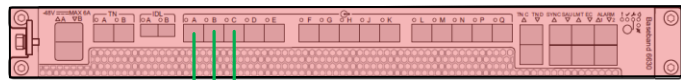


Sector 2



Sector 1

**BB6630 4G (VF)**

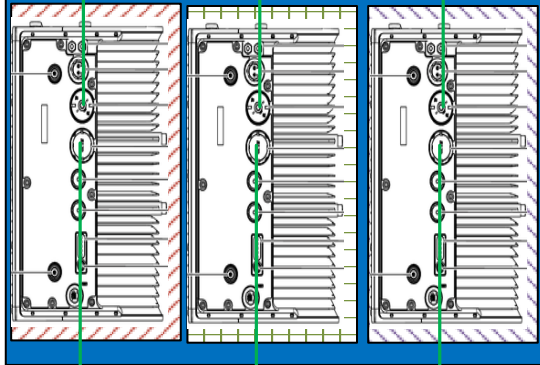


2.5G Optic CPRI (B-Data 2)

2.5G Optic CPRI (A-Data 2)

2.5G Optic CPRI (C-Data 2)

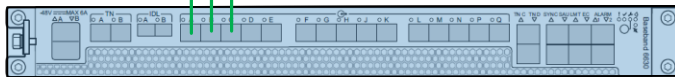
**L900/L800**



2.5G Optic CPRI (A-Data 1)

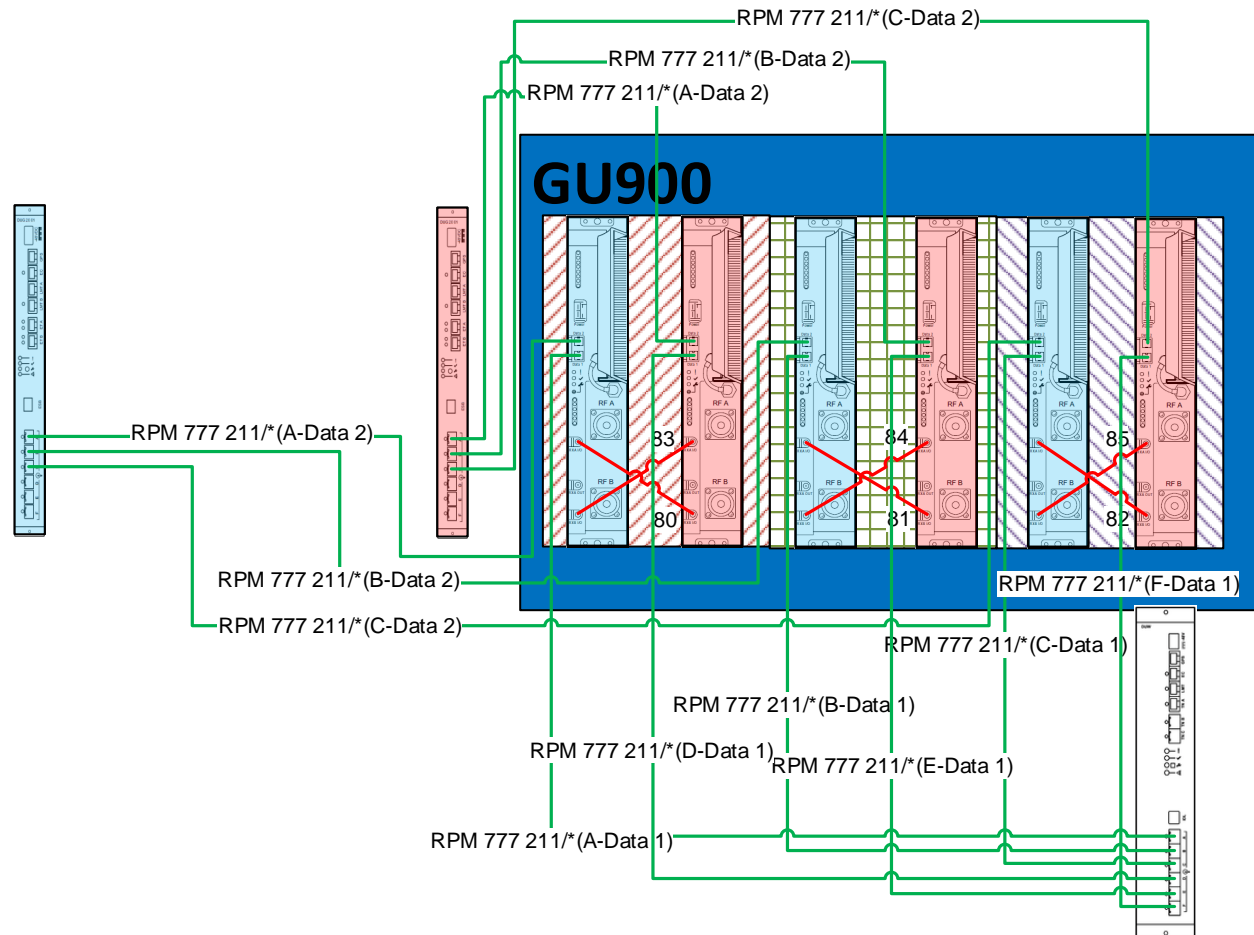
2.5G Optic CPRI (B-Data 1)

2.5G Optic CPRI (C-Data 1)



**BB6630 4G (TEF)**

## Signal connections for Baseline



**DUW 3G**

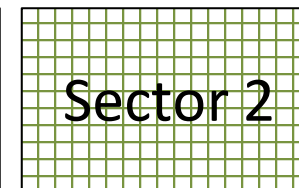
(2xDUW used for 2-sector sites with IDL-IDL & F-F connections)

Items 80-85 - RPM 777 700/00130 (RXA I/O – RXB I/O)

**12W Low (Indoor or Outdoor)**



**Sector 3**

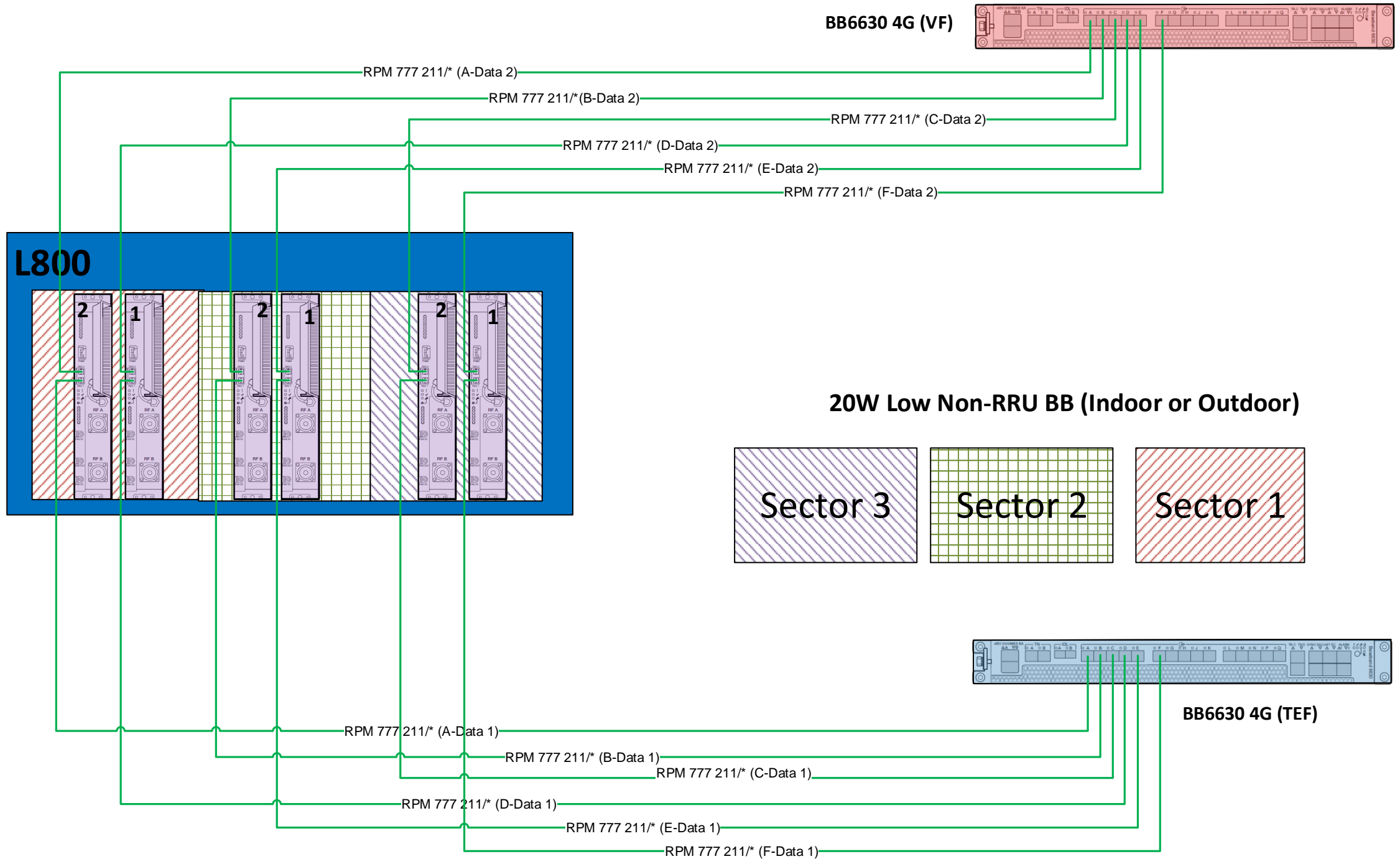


**Sector 2**



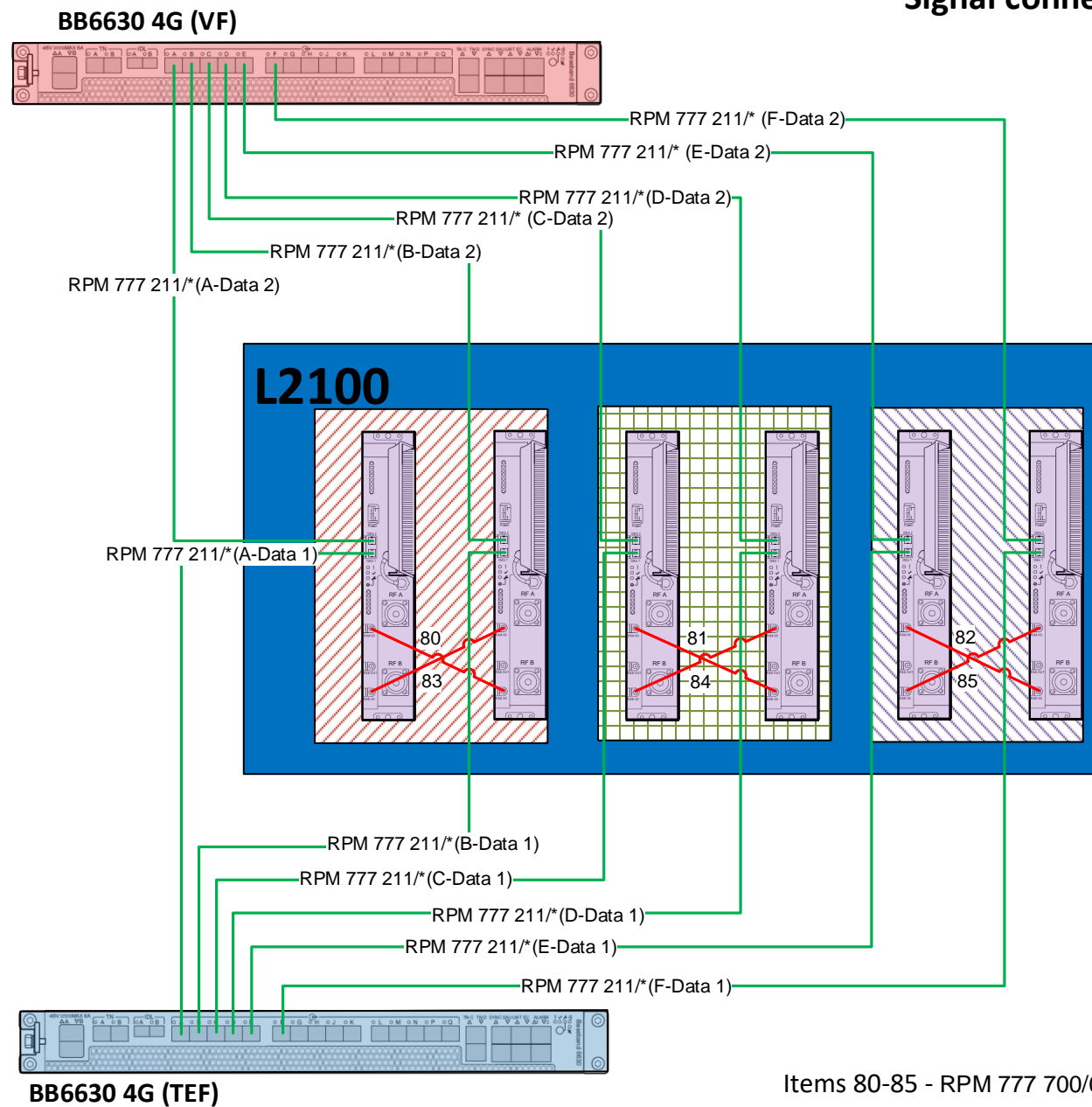
**Sector 1**

## Signal connections for Baseline





## Signal connections for Baseline

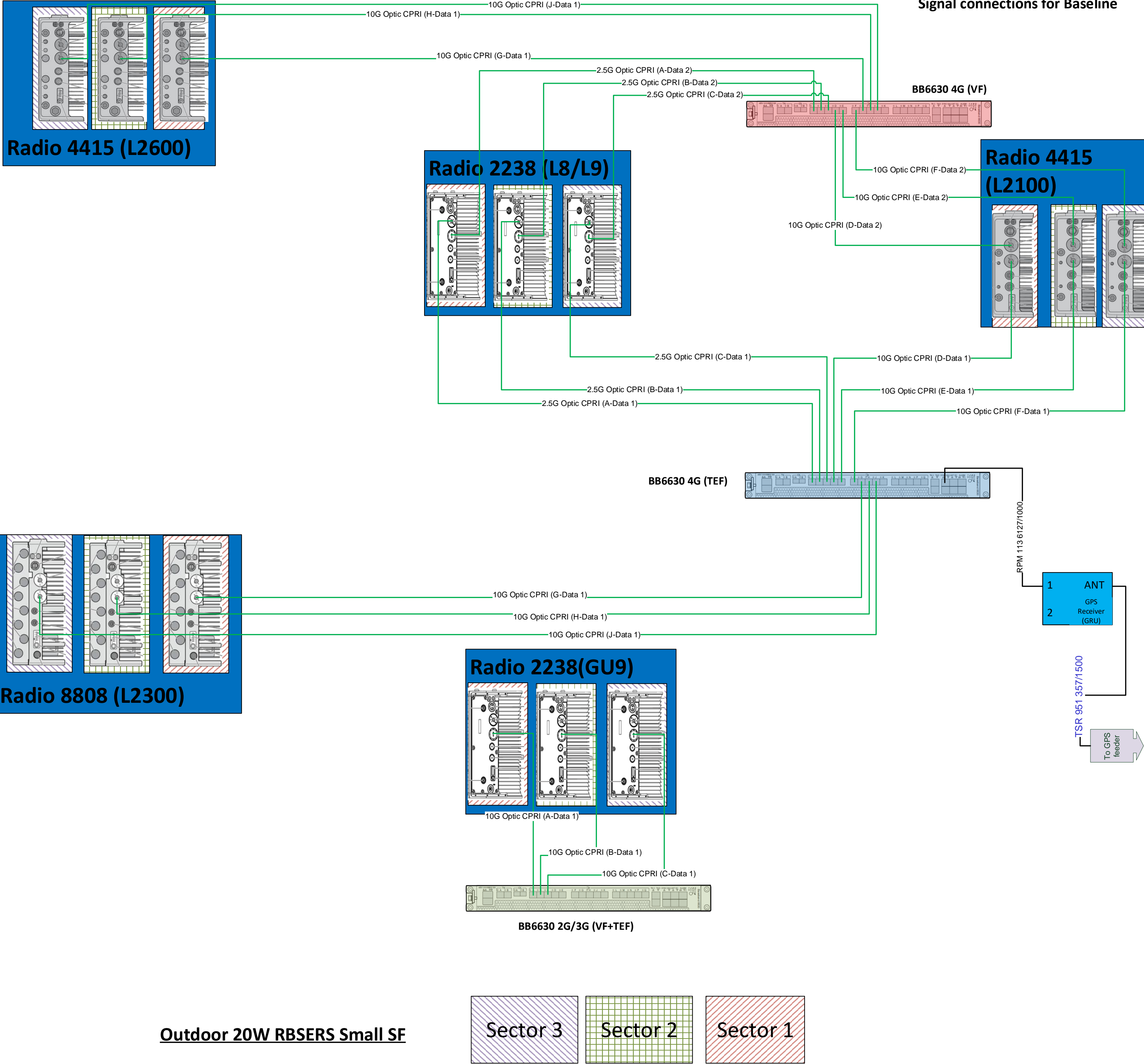


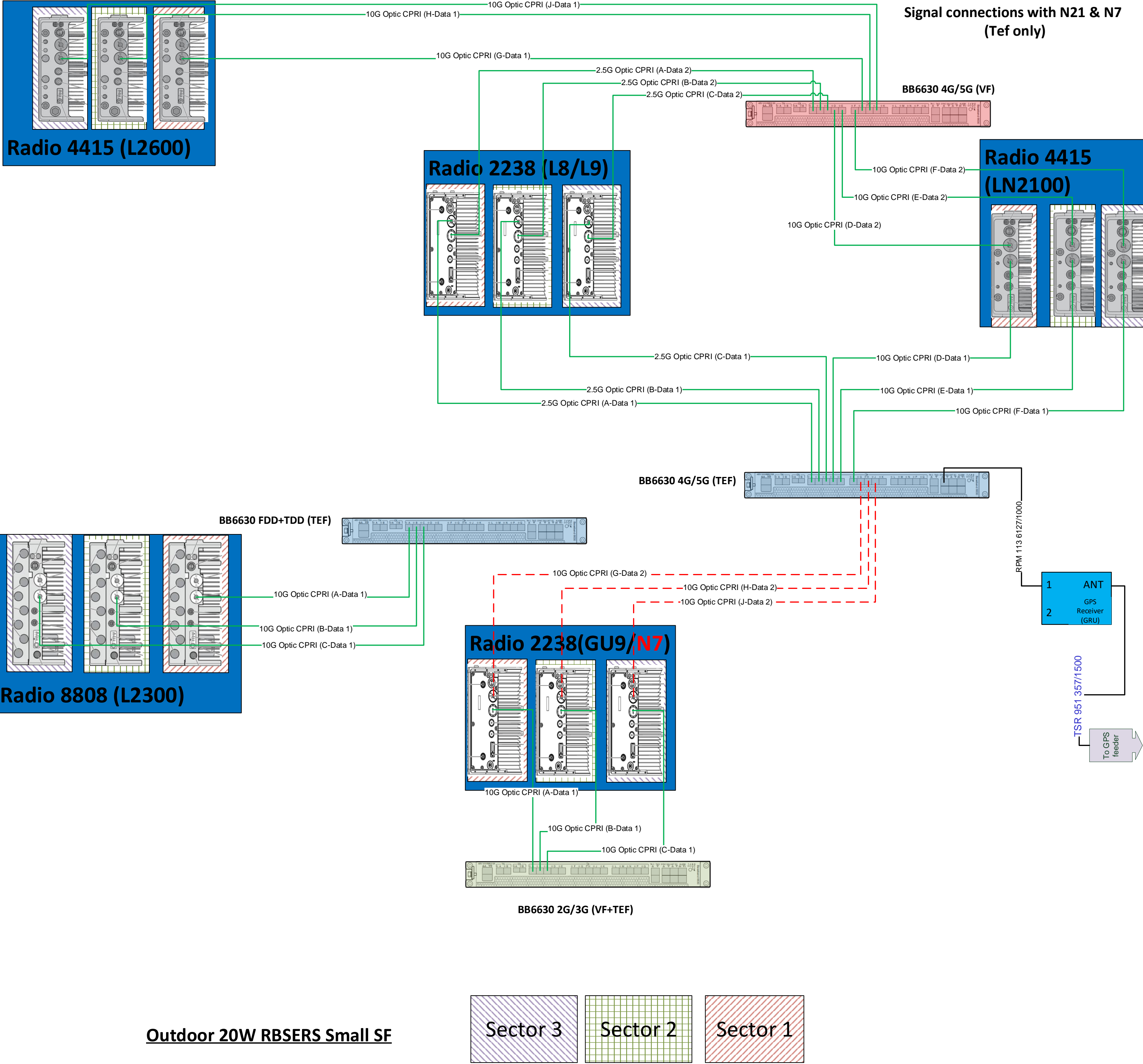
**Outdoor 20W L2100 RUS UU21**  
**Outdoor 20W L2100 RUS UU21 SF**

Sector 3

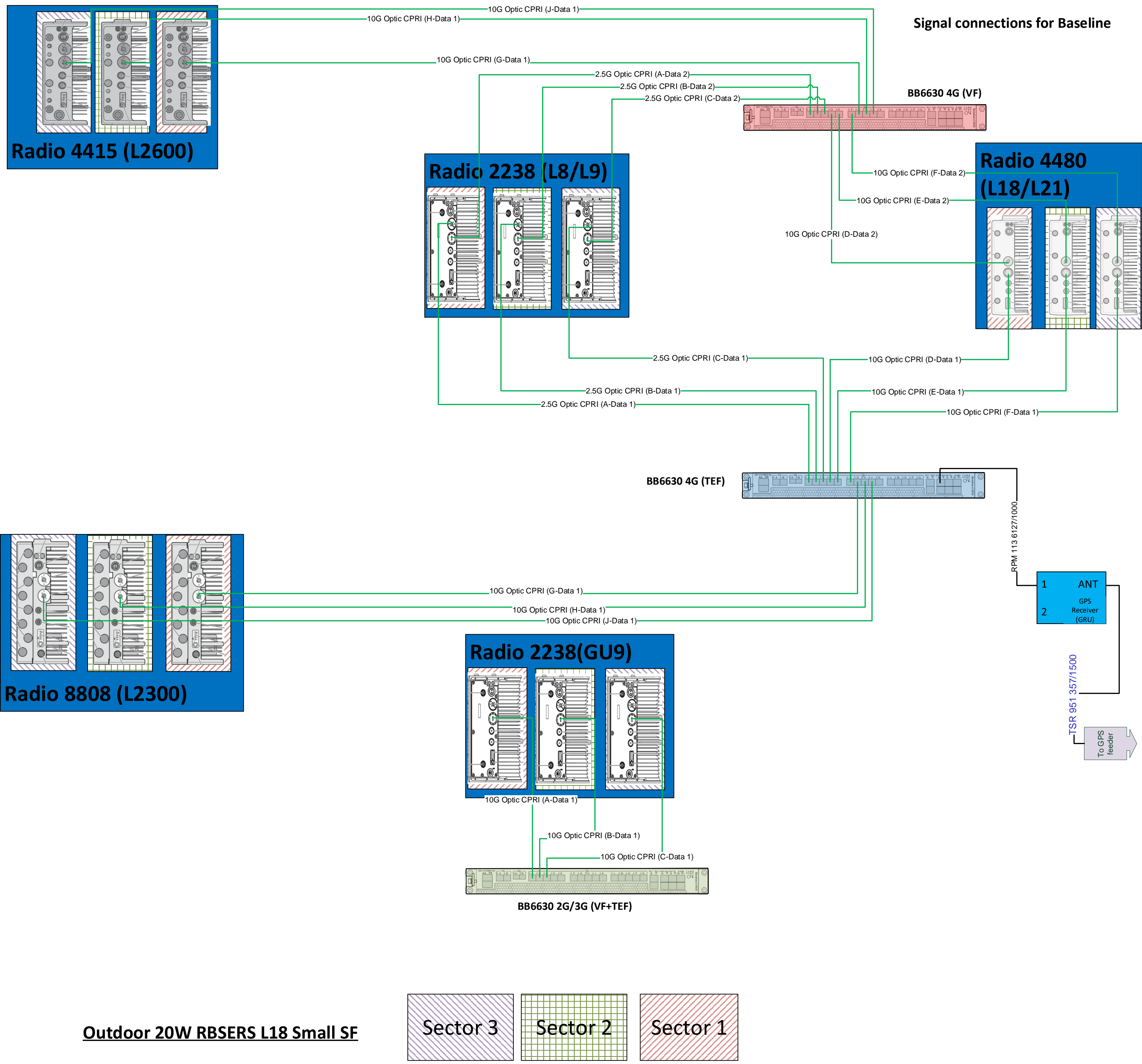
Sector 2

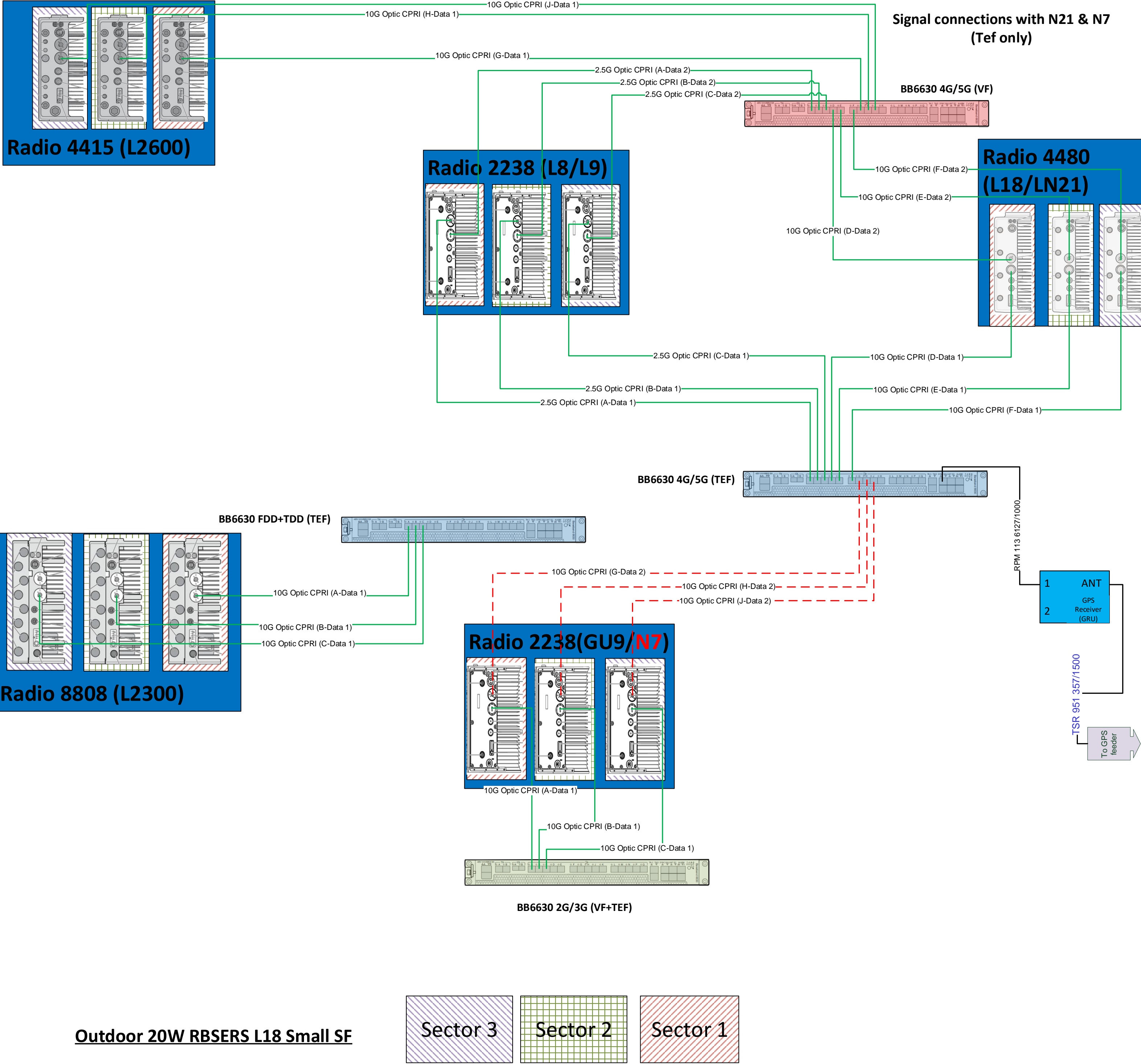
Sector 1

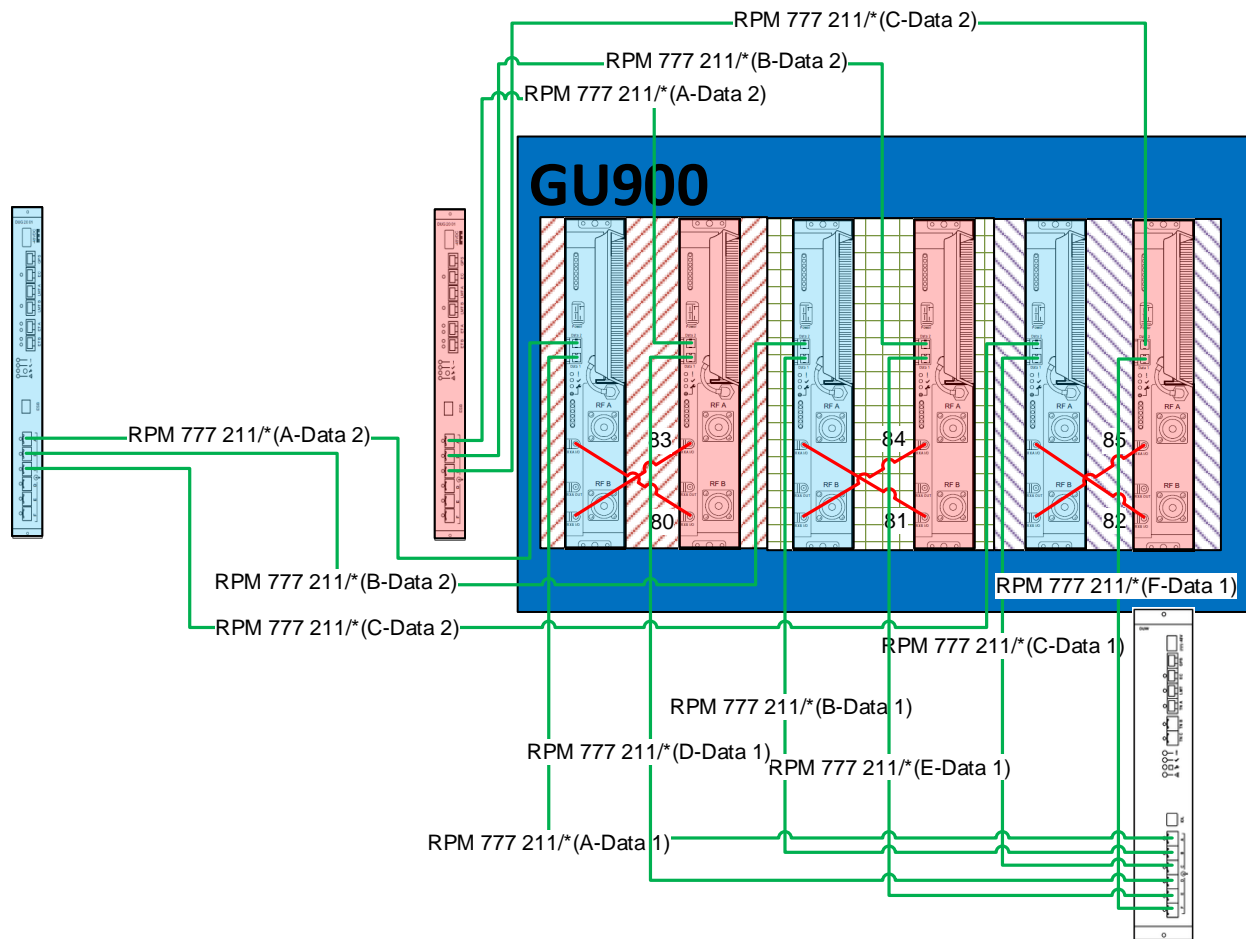




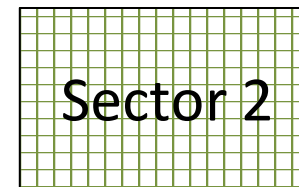


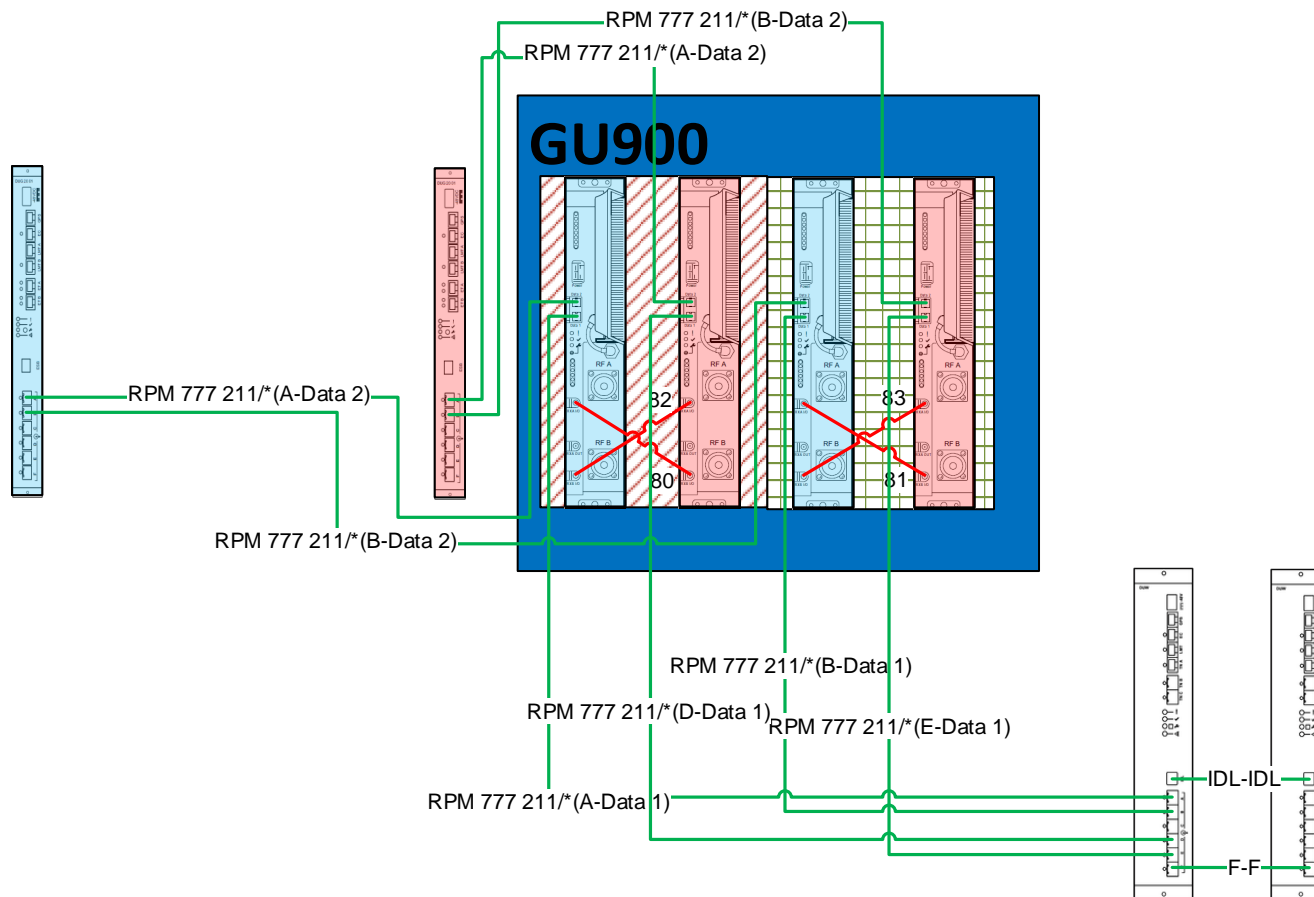






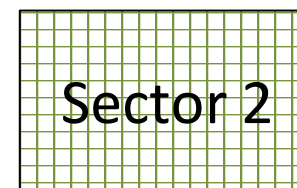
**Signal connections for GU900 12W/20W (3-sector)**  
 Items 80-85 - RPM 777 700/00130 (RXA I/O – RXB I/O)





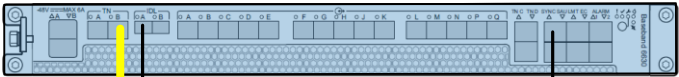
## Signal connections for GU900 12W (2-sector)

Items 80-83 - RPM 777 700/00130 (RXA I/O – RXB I/O)





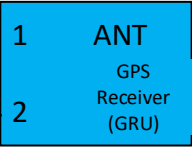
BB6630 4G (TEF)



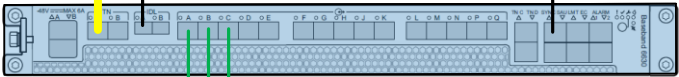
10G Optic (TN B- TN A)  
(IDL A- IDL A)

RPM 113 6127/1000(1-SYNC)

RPM 113 6127/1000(2-SYNC)



BB6630 5G (TEF)

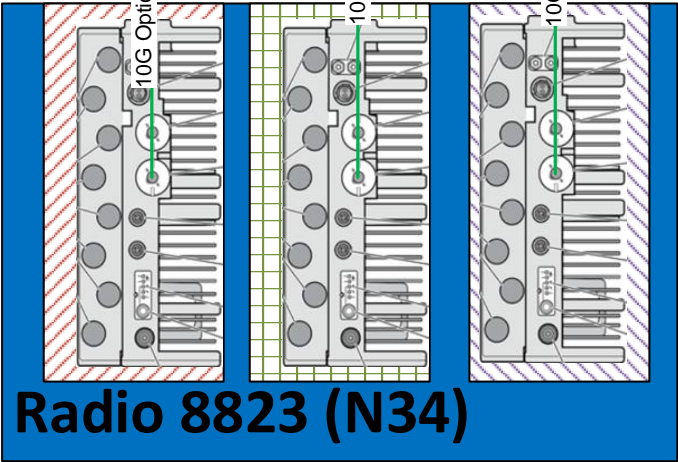


10G Optic CPRI (A-Data 1)

10G Optic CPRI (B-Data 1)

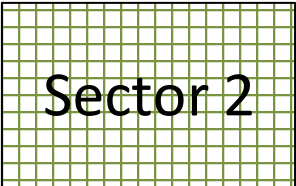
10G Optic CPRI (C-Data 1)

TSR 951 357/1500

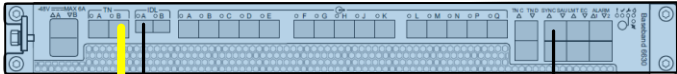


Radio 8823 (N34)

Signal connections for 5G 8x8 (TEF)



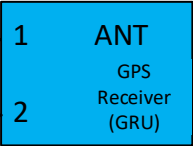
BB6630 4G (TEF)



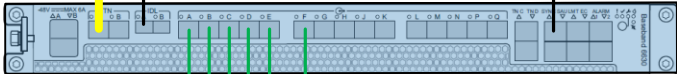
10G Optic (TN B- TN A)  
(IDL A- IDLA)

RPM 113 6127/1000(1-SYNC)

RPM 113 6127/1000(2-SYNC)

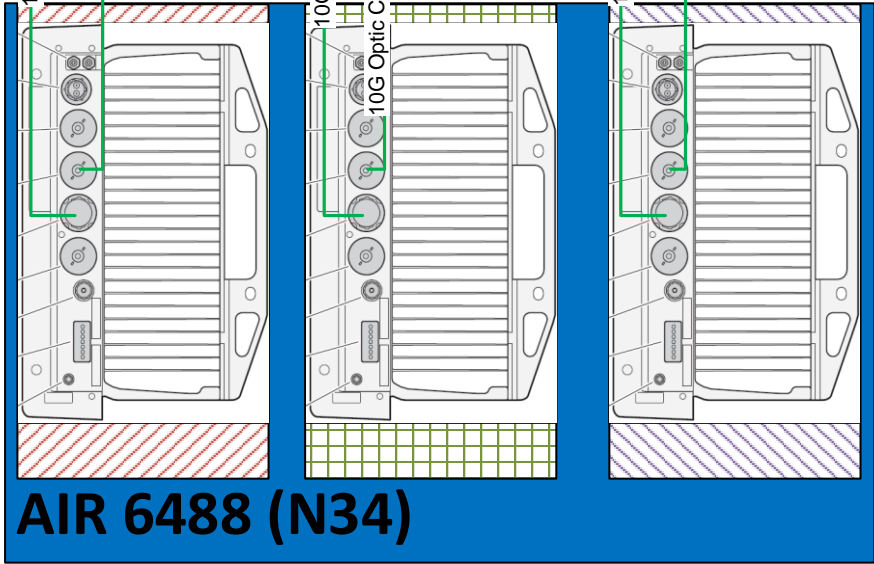


BB6630 5G (TEF)

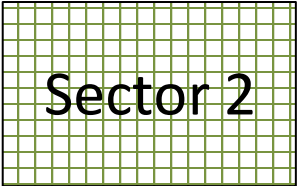


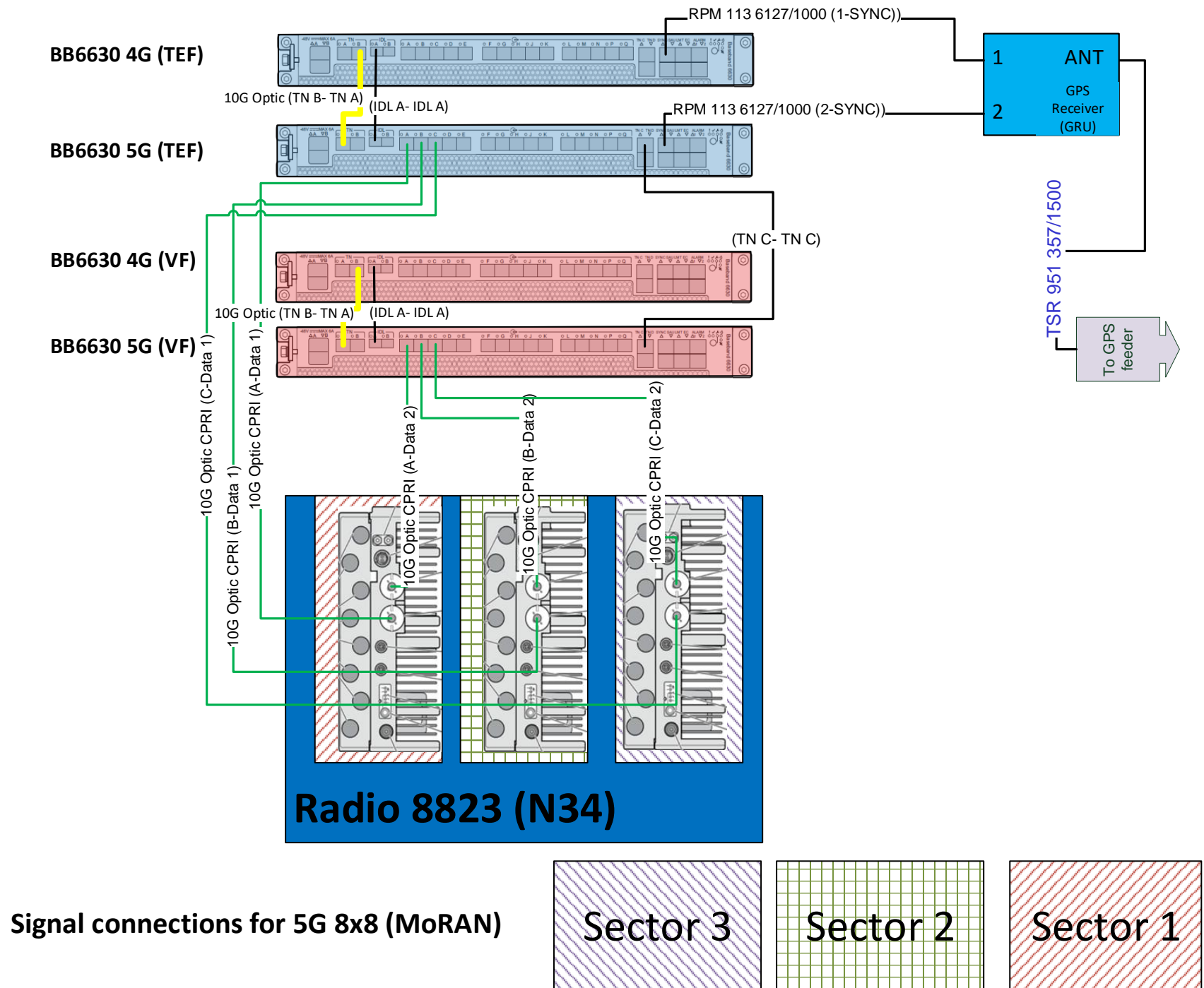
10G Optic CPRI (A-eCPRI 1)  
10G Optic CPRI (D-eCPRI 2)  
10G Optic CPRI (B-eCPRI 1)  
10G Optic CPRI (E-eCPRI 2)  
10G Optic CPRI (C-eCPRI 1)  
10G Optic CPRI (F-eCPRI 2)

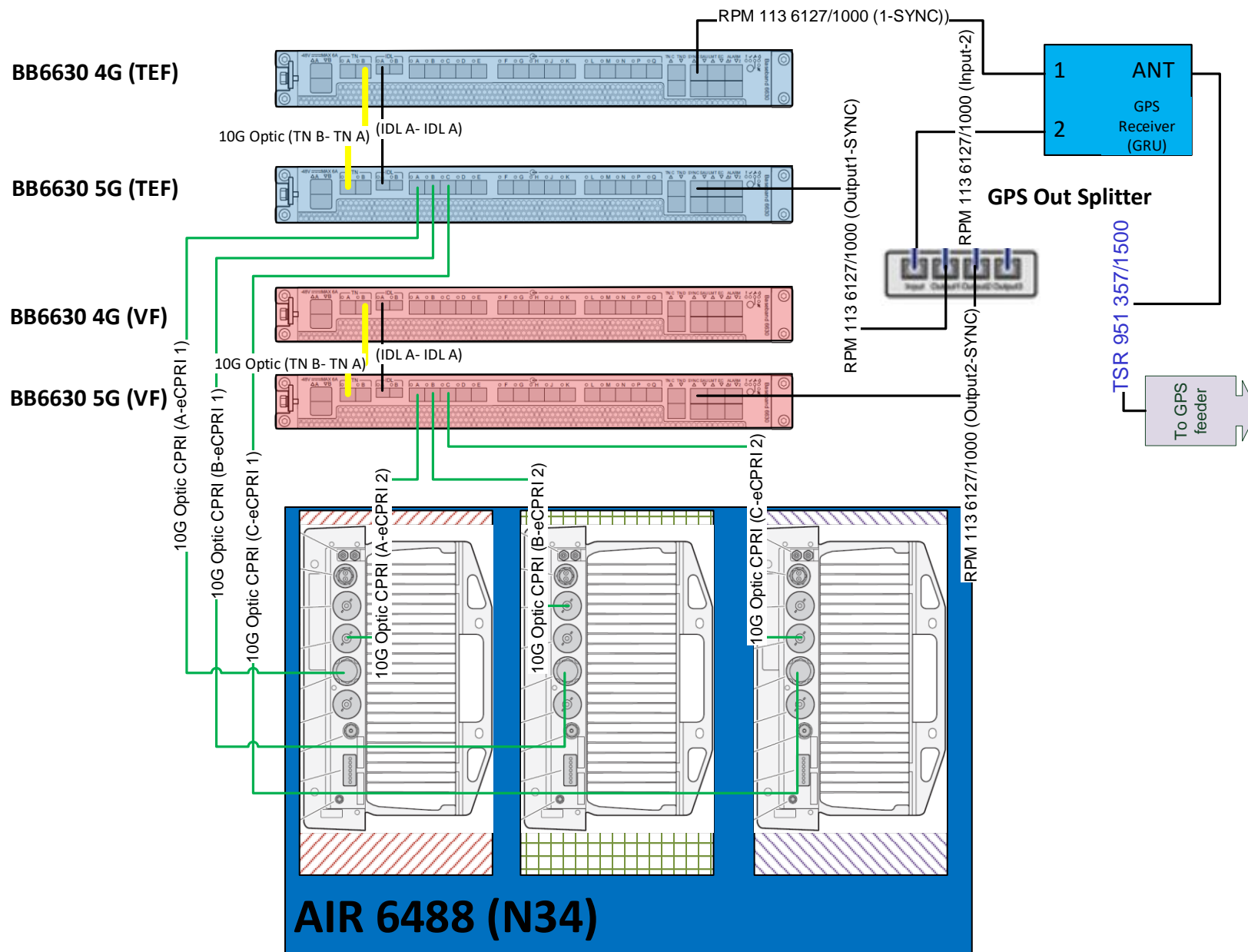
TSR 951 357/1500



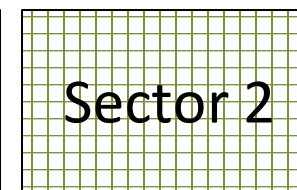
Signal connections for 5G M-MiMO (TEF)





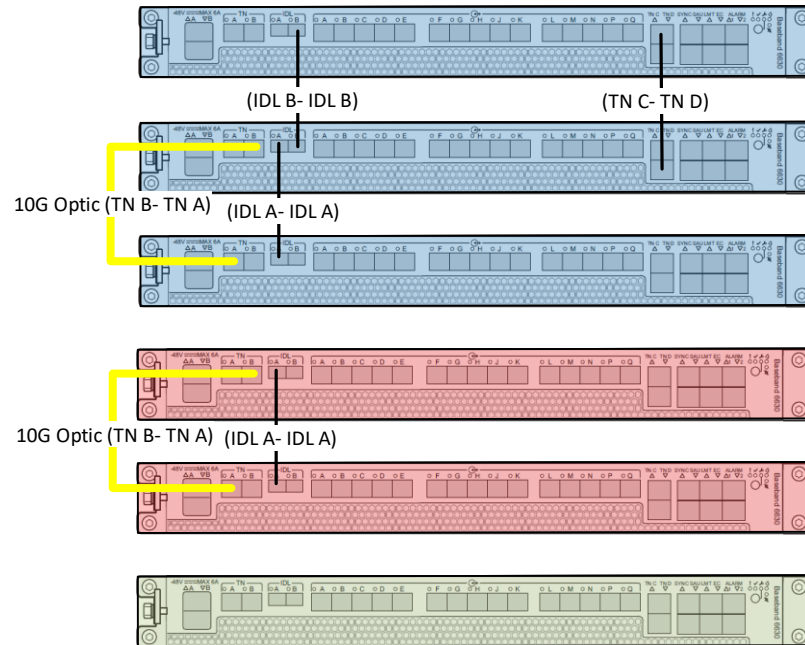


Signal connections for 5G M-MiMO (MoRAN)





# Transmission connections For MoRAN

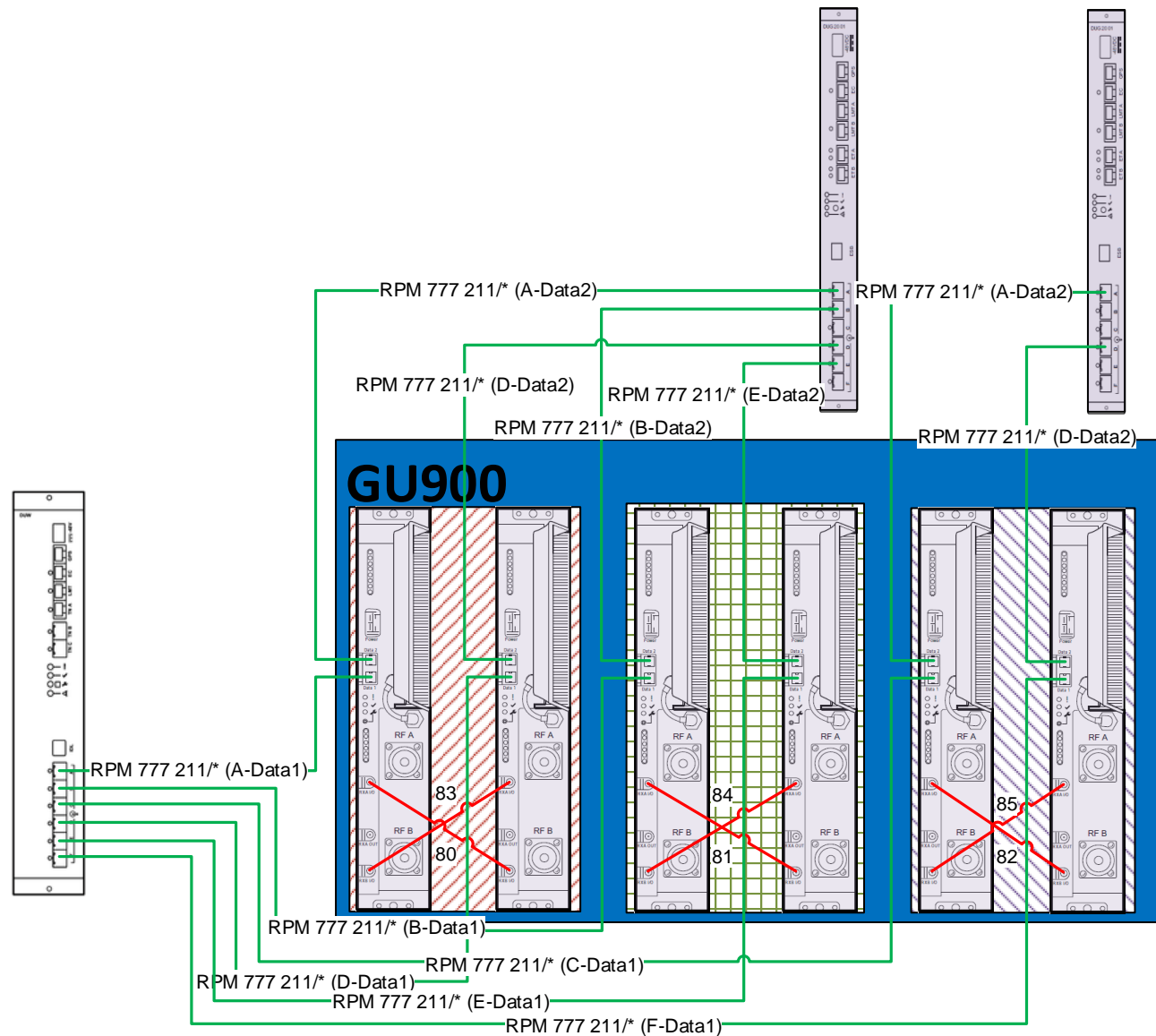


## CABLE INSTRUCTIONS

10G Optic (TN B-TN A) : RPM 253 3512/2000

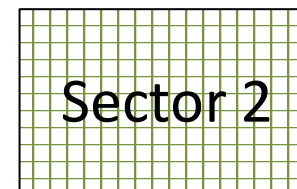
Ethernet cable (TN C-TN D) : RPM 777 341/01400

IDLE cable (IDL A-IDL A) & (IDL B-IDL B) : RPM 777 417/00800

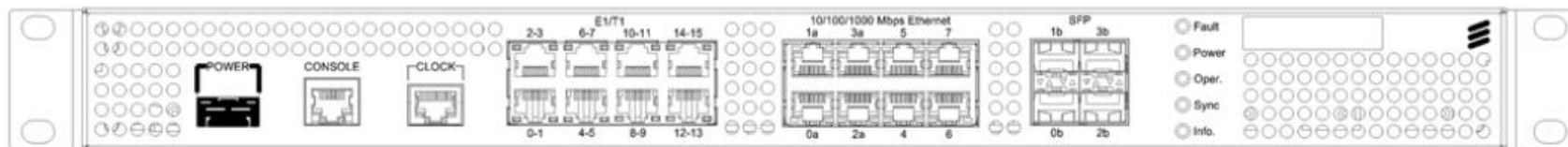


## Signal connections for GU900 20W (3-sector) Low/Stealth

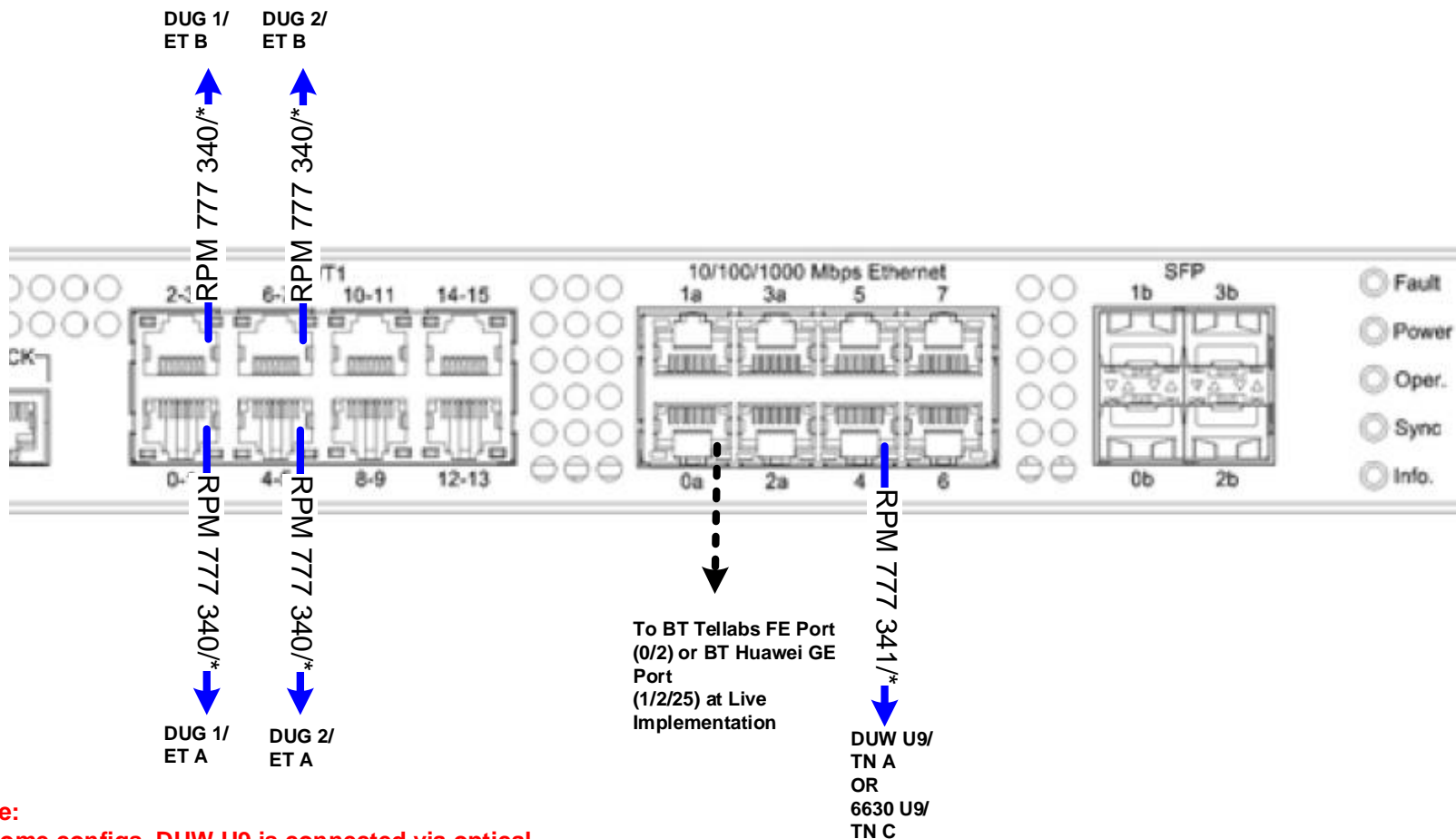
Items 80-85 - RPM 777 700/00130 (RXA I/O – RXB I/O)



# Telefonica Beacon3 SIU connectivity

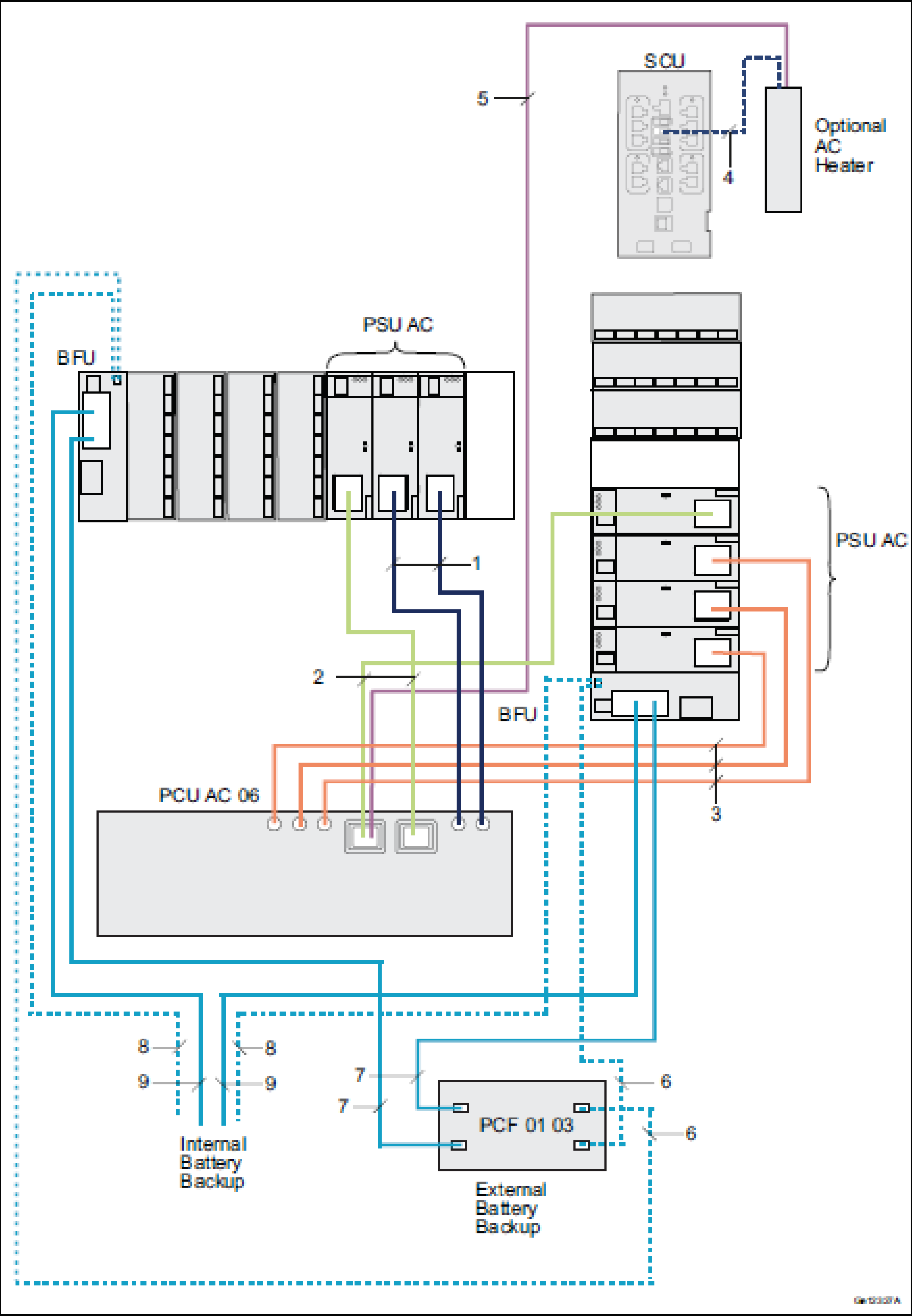


## SIU-A (Cabinet 1)



### Note:

In some configs, DUW U9 is connected via optical (GE3 on SIU and TN-B on DUW)



## Internal power cabling

Pos.	Connections	Qty.	Product No.
1	PCU AC 06 – PSU AC in 6, 7	2	Included in PCU AC
2	PCU AC 06 outlet – PSU AC in 4, 5	2	RPM 777 270/01000
3	PCU AC 06 – PSU AC in 1, 2, 3	3	Included in PCU AC
4	AC heater – SCU (Heater A - see Figure 6)	1	Included in AC heater
5	AC heater – PCU AC 06: AC out	1	
6	PCF 01 03 – BFU (Temperature sensor cable)	2	RPM 777 171/01300
7	PCF 01 03 – BFU	2	RPM 777 299/01300 <sup>(1)</sup> RPM 777 343/01200 <sup>(2)</sup>
8	BFU – Battery string (Temperature sensor cable)	2	RPM 777 346/01000
9	BFU – Battery string (Battery cable)	2	RPM 777 161 /01000

(1) Valid for only BFU 01 01.  
(2) Valid for BFU 01 01, BFU 01 02 and BFU 01 03.

### Notes:

RBS 6102 with PCU AC 06 and seven PSUs doesn't support AC heater. The AC port on the PSU AC, previously used for the AC heater, can be used to power the 7th PSU.

Leave the AC heater disconnected on site for now and this needs to be replaced with a DC heater for future upgrades as per availability in stock.

The BFU-2 will not be connected to the internal battery as part of the upgrade therefore the cables are not included in BoM.



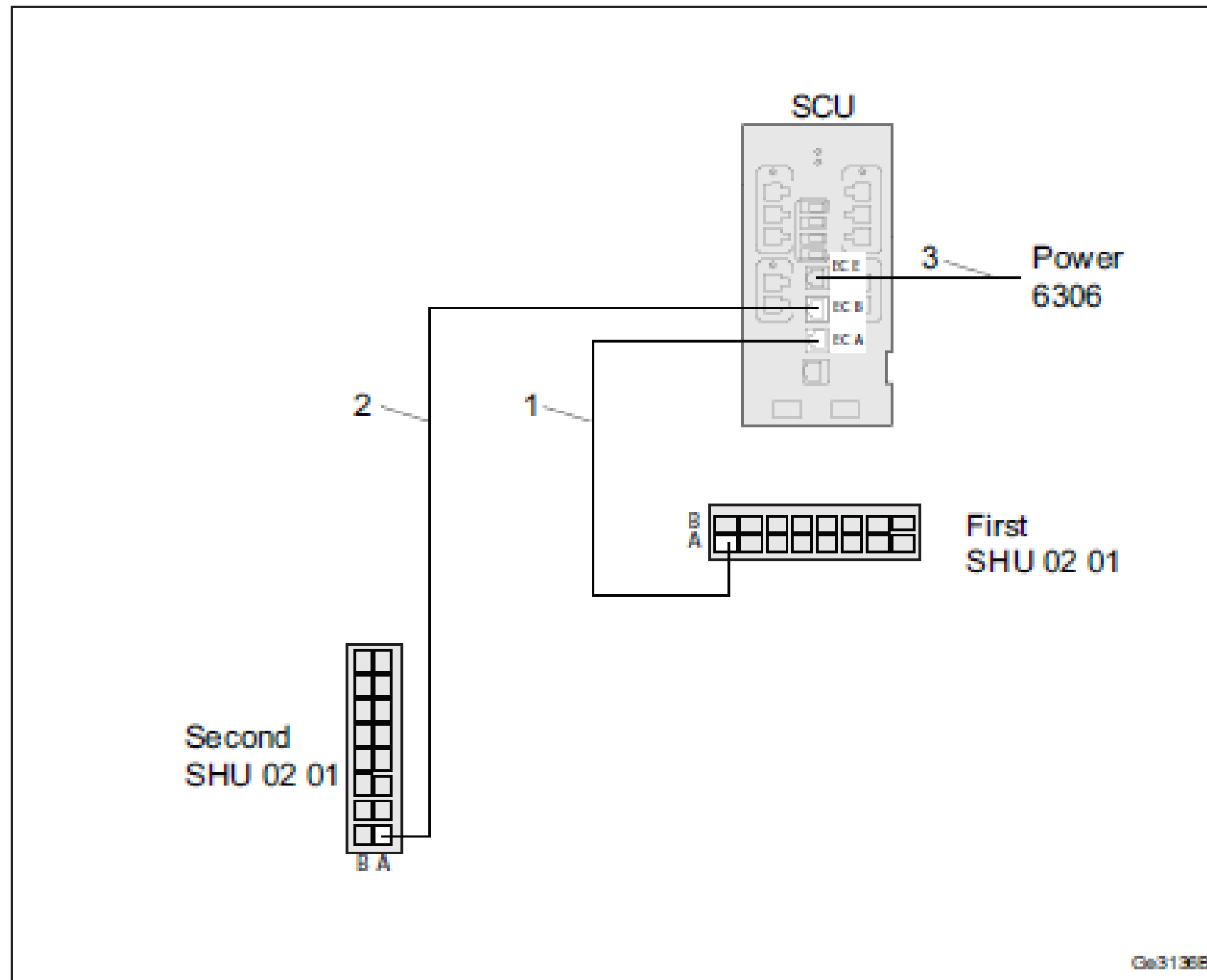
# SHU Cabling & Port Configuration

## SHU 1

Port A	Used by	Port B	Used by
A1	SCU (EC A)	B1	DU-1/ Baseband-1
A2	PDU-1	B2	PDU-2
A3	PSU-1	B3	PSU-2
A4	PSU-3	B4	PSU-4/PDU-6
A5	DU-2/ Baseband-2	B5	BFU-1
A6	DU-3/ Baseband-3	B6	PSU-5/PDU-7
A7	DU-4/ Baseband-4	B7	PDU-3/PSU-7
A8	PDU-4/PSU-8	B8	-

## SHU 2

Port A	Used by	Port B	Used by
A1	SCU (EC B)	B1	-
A2	DU-5/ Baseband-5	B2	PSU-6
A3	DU-6/ Baseband-6	B3	PDU-5
A4	-	B4	PSU-4/PDU-6
A5	BFU-2	B5	PDU-8
A6	-	B6	PSU-5/PDU-7
A7	-	B7	PDU-3/PSU-7
A8	PDU-4/PSU-8	B8	-



Pos.	Connections SHU 02 01	Qty.	Product No.
1	First SHU 02 01: A1 – SCU: EC-bus A	1	RPM 777 01/00400
2	Second SHU 02 01: A1 – SCU EC-bus B	1	RPM 777 01/01000
3	Power 6306: EC Ext – SCU EC- bus E	1	RPM 777 562/L