

**Legend**

<b>KEY</b>											
<b>Proposed Fibre &amp; Civils Elements are shown in RED</b>											
<b>Proposed Copper Elements are shown in BLUE</b>											
<b>All Recoveries are shown in MAGENTA</b>											
<b>All Recoveries are shown in GREEN</b>											

**Notes**

C	20/06/2013	Re-Drawn by NWR to Include all Stage 2 Construction As-Built	PT	PB	GH
B	14/05/2013	Converted to As-built	MT	RP	SW
A	06/04/2011	Redrafted from NTPOSLDHWJNWNJN001B.dwg, 2118-2125-2127 AS-BUILT SLD.dwg & NTPOSLD21162127001A.dwg	DA	JW	CT
Rev	Date	Description of Revisions	Drawn	Chkd	Appr

Contractor(s)

**As-built**  
ELR & Millage  
RDG1, HOU & HJW

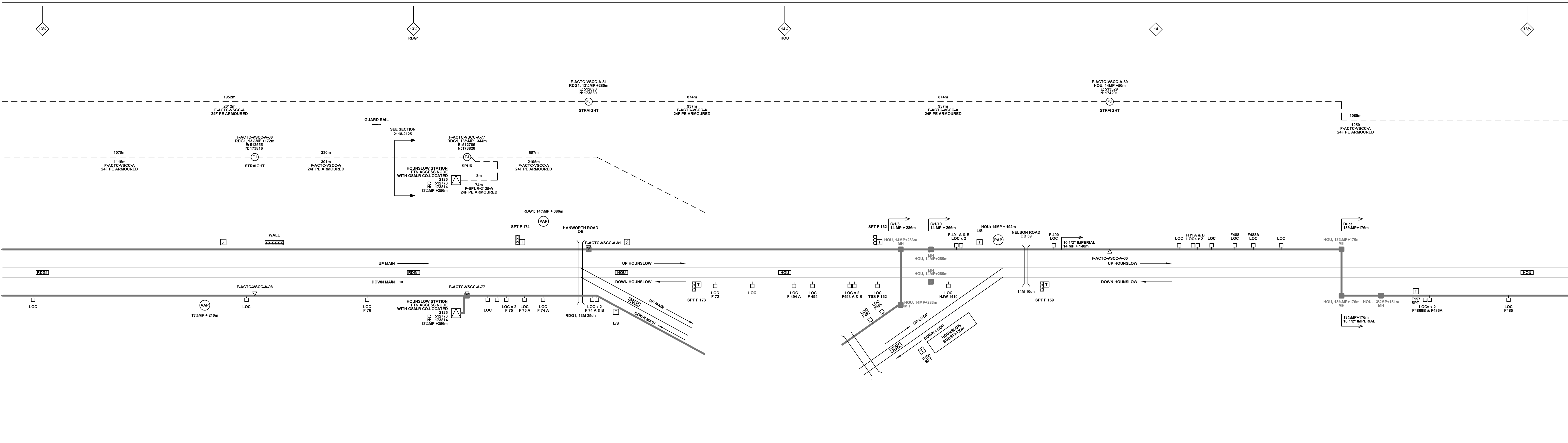
Designed	Michal Taraj	Sign.	Date	14/05/2013
Drawn	Michal Taraj	Sign.	Date	14/05/2013
Checked	Rashmi Patel	Sign.	Date	14/05/2013
Approved	Steve Witt	Sign.	Date	14/05/2013
Project	FTN/GSM-R Project CA6 LOR ACTC-VSCC Stage 2			
Drawing Title	Hounslow Station (2125) to Brentford Station (2127) via Feltham (FLTS)			

FTN/GSM-R Project  
Tournament House  
Paddington  
London  
W2 1HA

Alternative Reference  
See Layout Tab A3 Sheets 1 and 2

Drawing Number  
NTPOSLD/2125/2127/001

Sheet  
1 of 5  
Revision  
C



**Legend**

<b>KEY</b>	<b>Proposed Fibre &amp; Civils Elements are shown in RED</b>	<b>All Existing Elements are shown in BLACK</b>									
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Rev	Date	Description of Revisions	Drawn	Chkd	Appr

**McNicholas**

**As-built**

ELR & MIBage  
RDG1, HOU & HJW

Designed	Michal Taraj	Sign.	Date	14/05/2013
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Drawing Title	Hounslow Station (2125) to Brentford Station (2127) via Feltham (FLTS)			

**Network Rail**

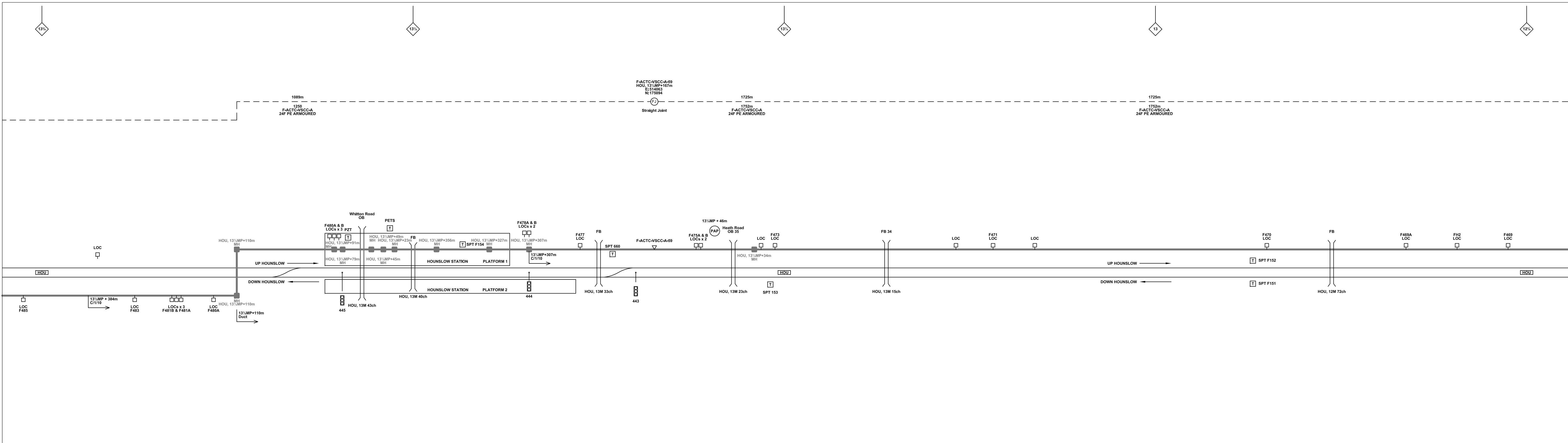
FTN/GSM-R Project  
Tournament House  
Paddington  
London  
W2 1HA

Alternative Reference  
See Layout Tab A3 Sheets 3 and 4

Drawing Number  
NTPOSLD/2125/2127/001

Sheet  
2 of 5

Revision  
C



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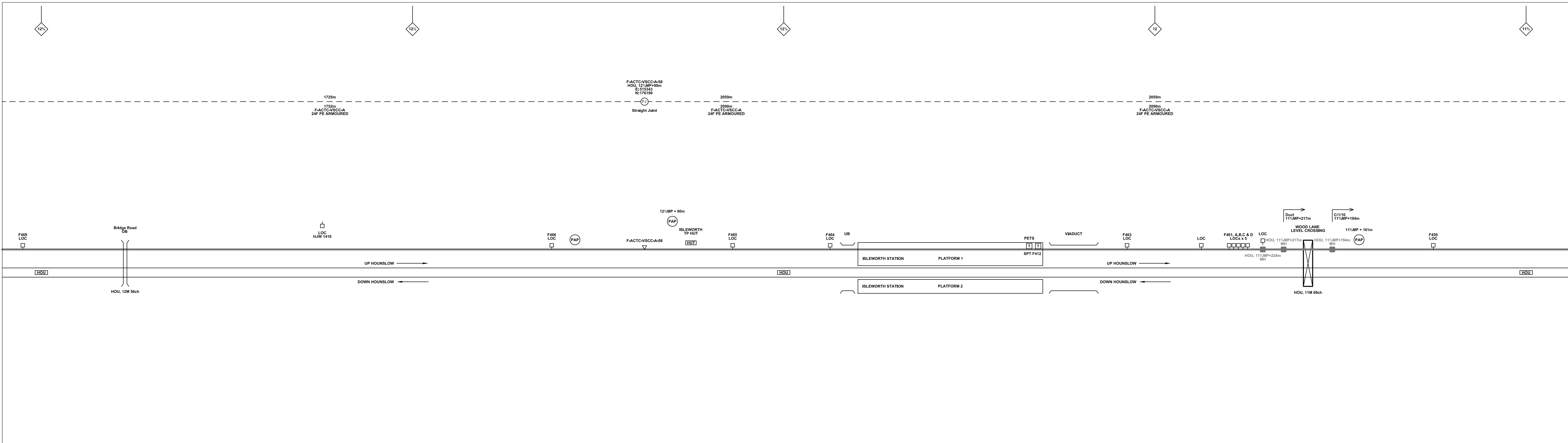
**Network Rail**

FTN/GSM-R Project  
Tournament House  
Paddington  
London  
W2 1HA

Alternative Reference: See Layout Tab A3 Sheets 5 and 6

Drawing Number: NTPO\SLD\2125\2127\001

Sheet 3 of 5  
Revision C



**Legend**

<b>KEY</b>	Proposed Fibre & Civils Elements are shown in RED	Proposed Copper Elements are shown in BLUE	Proposed Screening Elements are shown in MAGENTA	All Recoveries are shown in GREEN	All Existing Elements are shown in BLACK	Existing Fibre Cable	Existing Copper Cable	Existing Screen Cable	1988m	2034m	F-DIDC-RGAC-A	Status - as per Key Below	Manhole	FTN Access Node	FTN Access Node with GSM-R Colocated	Manhole details: Cross-To be used Filled-In use Clear-Empty	Overbridge	Underbridge	Signal	MLRT Engineer's Line Reference	Crossing	Gantry	Cable Pull	Mast	Mile Post	Platform	Earth Farm	Buffer Stop	Telephone									

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**As-built**  
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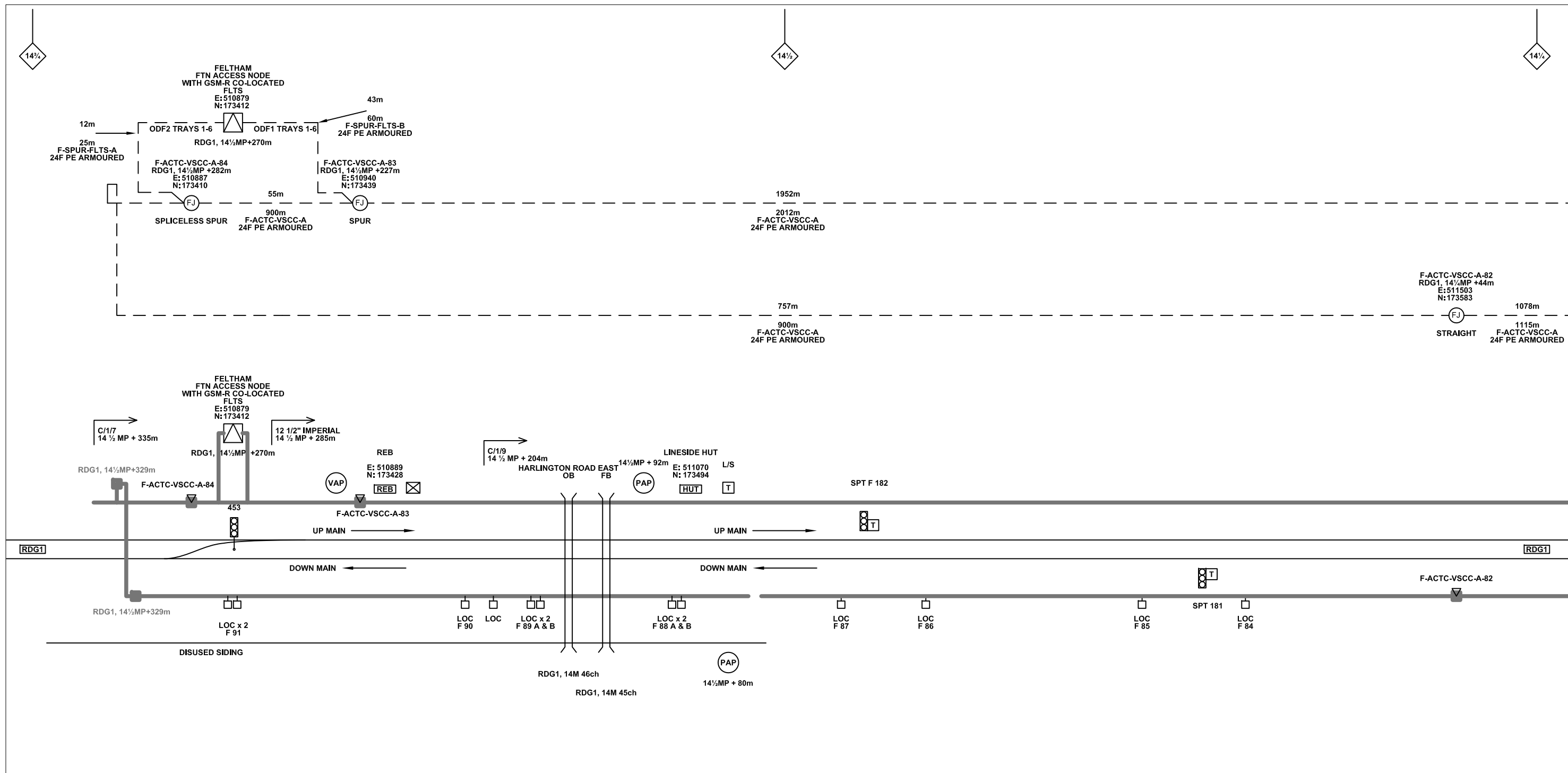
FTN/GSM-R Project  
Tournament House  
Paddington  
London  
W2 1HA

Alternative Reference: See Layout Tab A3 Sheets 7 and 8

Drawing Number: NTPO/SLD/2125/2127/001

Sheet 4 of 5  
Revision C





**Legend**

	Cabinet and Verts		Copper Joint		Trough Duct Cable Tray		Signal Box		FTN Core Node		Screen Joint Routeworks		Overbridge		Signal		Engineer's Line Reference		Crossing		GAS	Gas Line
	Cabinet with Regenerator and Verts		Fibre Joint		Cable - Type Identified by FTN Code		Electrical Control Room		Core Node with GSM-R Colocated		Copper Joint Routeworks		Underbridge		Vehicle Access Point		Mile Post		Gantry		HV	HV Cable
<b>KEY</b>			Screening Conductor Joint with/without Earth		Manhole		Mid Length Sheath Gap Fibre		FTN Access Node		Cabinet Routeworks		Tunnel		Pedestrian Access Point		Platform		Water		LV	LV Cable
					Sheath Gap Copper		FTN Access Node with GSM-R Colocated		Fibre Joint Routeworks		Earth Farm		Buffer Stop		Telephone		Cable Pull		Mast		SEW	Sewer

Proposed Fibre & Civils Elements are shown in RED  
 Proposed Copper Elements are shown in BLUE  
 Proposed Screening Elements are shown in MAGENTA  
 All Recoveries are shown in GREEN  
 All Existing Elements are shown in BLACK  
 Existing Fibre Cable  
 Existing Copper Cable  
 Existing Screen Cable

Notes

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Contractor(s)

**As-built**

Scale(s) NTS

ELR & Mileage RDG1, HOU & HJW

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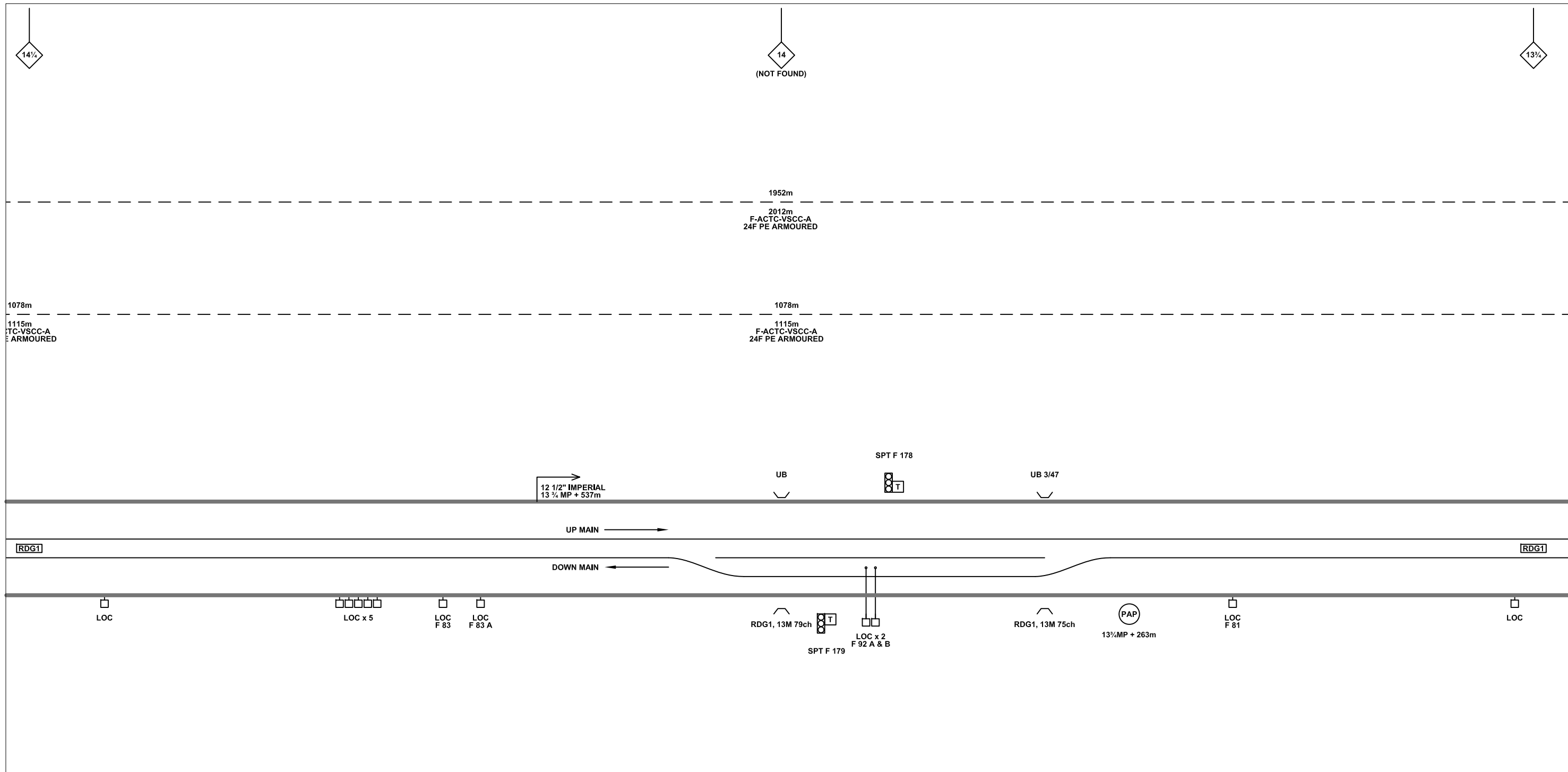
FTN/GSM-R Project  
Tournament House  
Paddington  
London  
W2 1HA

Alternative Reference See Layout Tab 841 x 297 Sheet 1

Drawing Number NTPO\SLD\2125\2127\001

Sheet 1 of 10

Revision C



**Legend**

	Cabinet and Verts		Copper Joint		Trough Duct Cable Tray		Signal Box		FTN Core Node		Screen Joint Routeworks		Overbridge		Signal		Engineer's Line Reference		Crossing		Gas Line
	Cabinet with Regenerator and Verts		Fibre Joint		Cable - Type Identified by FTN Code		Electrical Control Room		Core Node with GSM-R Colocated		Copper Joint Routeworks		Underbridge		Vehicle Access Point		Mile Post		Gantry		HV Cable
	<b>KEY</b>		Screening Conductor Joint with/without Earth		Manhole		Mid Length Sheath Gap Fibre		FTN Access Node		Cabinet Routeworks		Tunnel		Pedestrian Access Point		Platform		Sewer		LV Cable
<b>Proposed Fibre &amp; Civils Elements are shown in RED</b>			Existing Fibre Cable		Sheath Gap Copper		FTN Access Node with GSM-R Colocated		Fibre Joint Routeworks		Earth Farm		Buffer Stop		Telephone		Cable Pull		Mast		Water

Notes

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Rev	Date	Description of Revisions	Drawn	Chkd	Appr

Contractor(s)

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Scale(s) NTS

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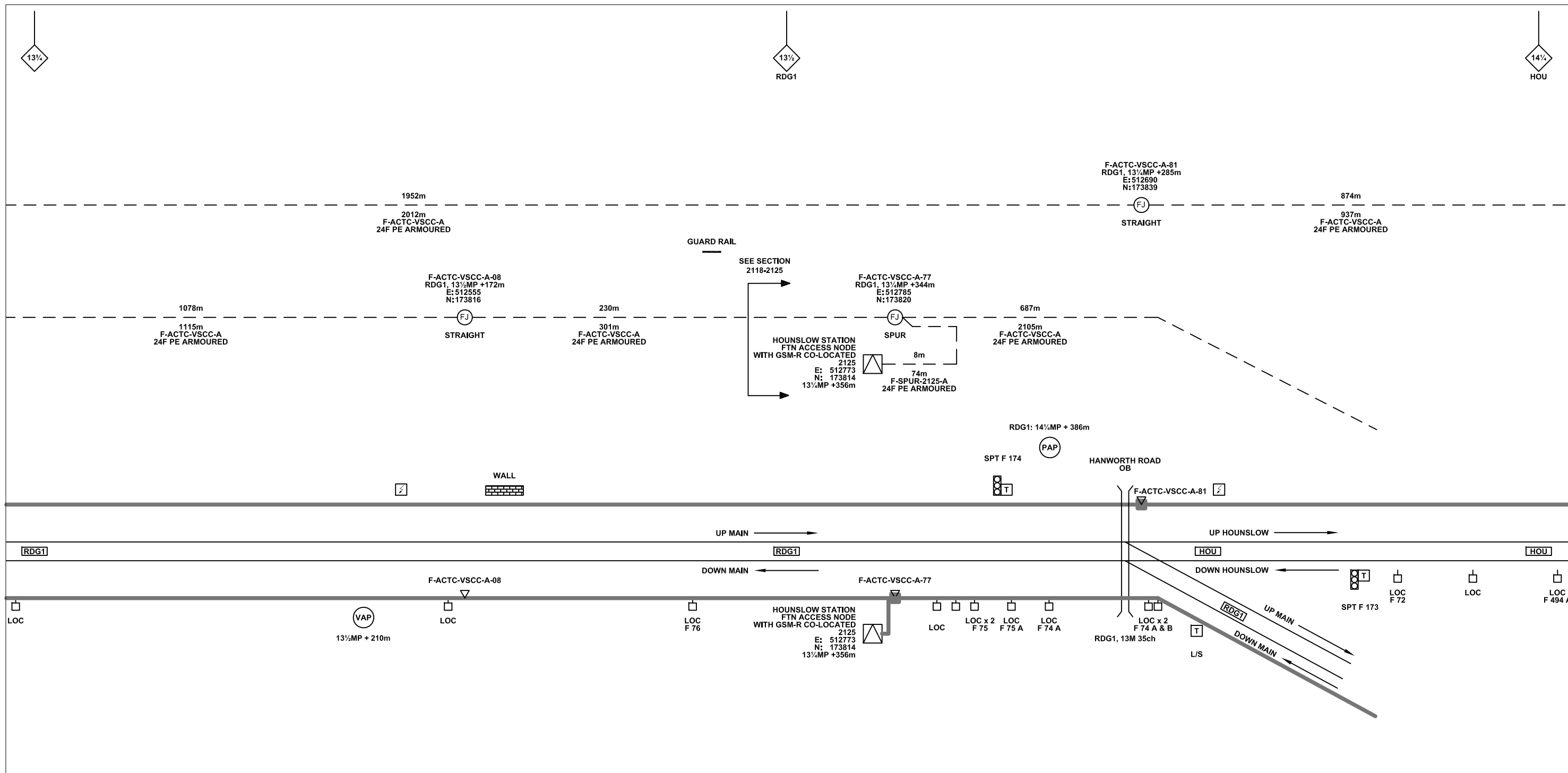
FTN/GSM-R Project  
Tournament House  
Paddington  
London  
W2 1HA

Alternative Reference See Layout Tab 841 x 297 Sheet 1

Drawing Number NTPO\SLD\2125\2127\001

Sheet 2 of 10

Revision C



**Legend**

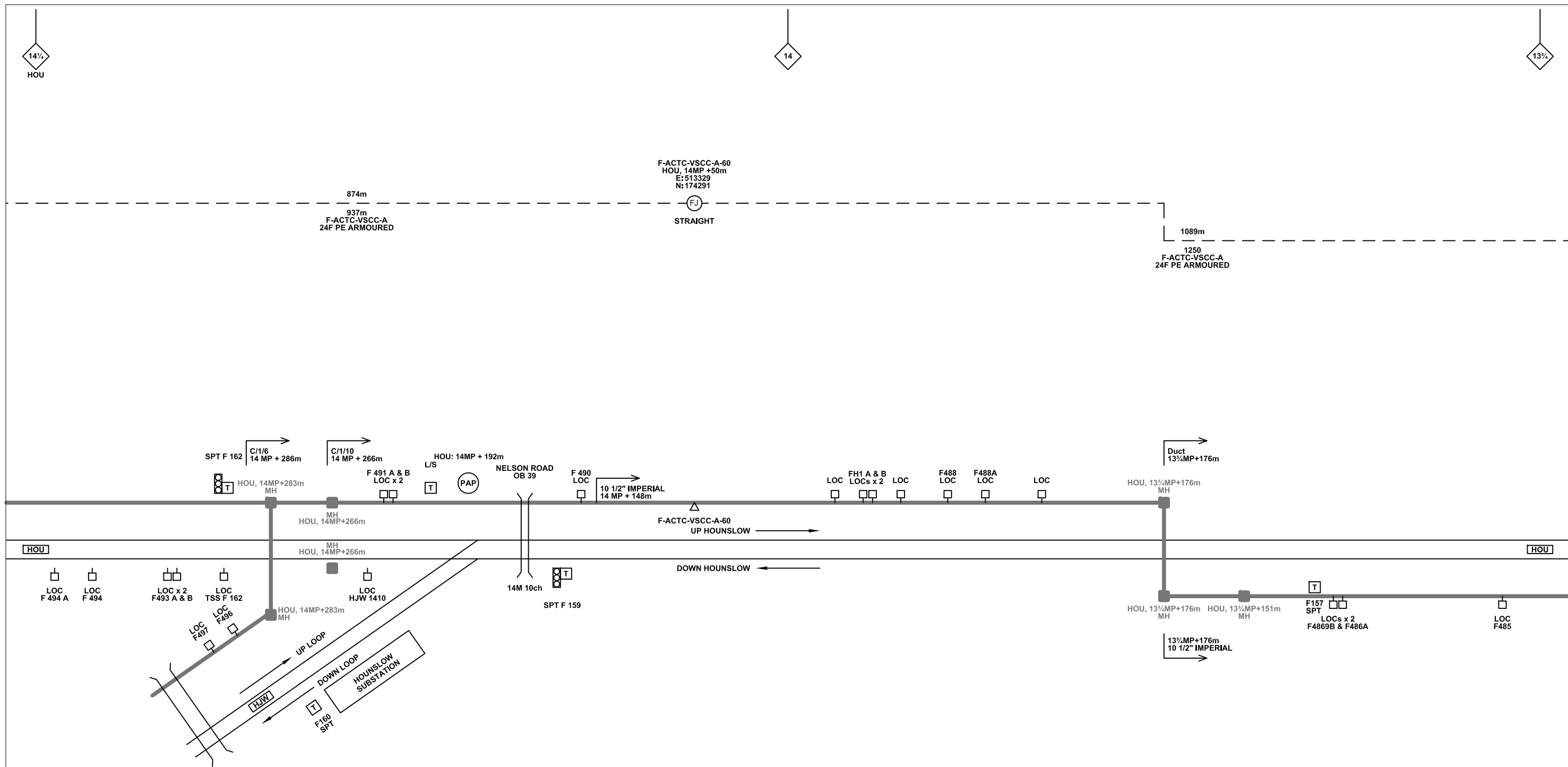
	Cabinet and Verts		Copper Joint		Trough Duct Cable Tray		Signal Box		FTN Core Node		Screen Joint Routeworks		Overbridge		Signal		Engineer's Line Reference		Crossing		GAS	Gas Line	
	Cabinet with Regenerator and Verts		Fibre Joint		Cable - Type Identified by FTN Code		Electrical Control Room		Core Node with GSM-R Colocated		Copper Joint Routeworks		Underbridge		Vehicle Access Point		Mile Post		Gantry		HV	HV Cable	
	<b>KEY</b>		Screening Conductor Joint with/without Earth		Manhole		Mid Length Sheath Gap Fibre		FTN Access Node		Cabinet Routeworks		Tunnel		Pedestrian Access Point		Platform		SEW	Sewer		LV	LV Cable
	<b>KEY</b>				Sheath Gap Copper		FTN Access Node with GSM-R Colocated		Fibre Joint Routeworks		Earth Farm		Buffer Stop		Telephone		Cable Pull		Mast		TEL	Telecoms	
																					W	Water	

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 Proposed Fibre & Civils Elements are shown in RED  
 Proposed Copper Elements are shown in BLUE  
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 All Recoveries are shown in GREEN

**Notes**  
 All Existing Elements are shown in BLACK  
 --- Existing Fibre Cable  
 --- Existing Copper Cable  
 --- Existing Screen Cable

Notes		Contractor(s)		Designed		Sign.		Date					
				Michal Taraj		Sign.		14/05/2013					
				Michal Taraj		Sign.		14/05/2013					
				Rashmi Patel		Sign.		14/05/2013					
				Steve Witt		Sign.		14/05/2013					
				Project						FTN/GSM-R Project Tournament House Paddington London W2 1HA			
				Status						Drawing Title		Alternative Reference	
				As-built						Hounslow Station (2125) to Brentford Station (2127) via Feltham (FLTS)		See Layout Tab 841 x 297 Sheet 2	
				Scale(s)								Sheet 3 of 10	
				NTS		ELR & Mileage						Drawing Number	
				RDG1, HOU & HJW								NTPO\SLD\2125\2127\001	
Rev		Date		Description of Revisions		Drawn		Chkd		Appr		Revision	
												C	



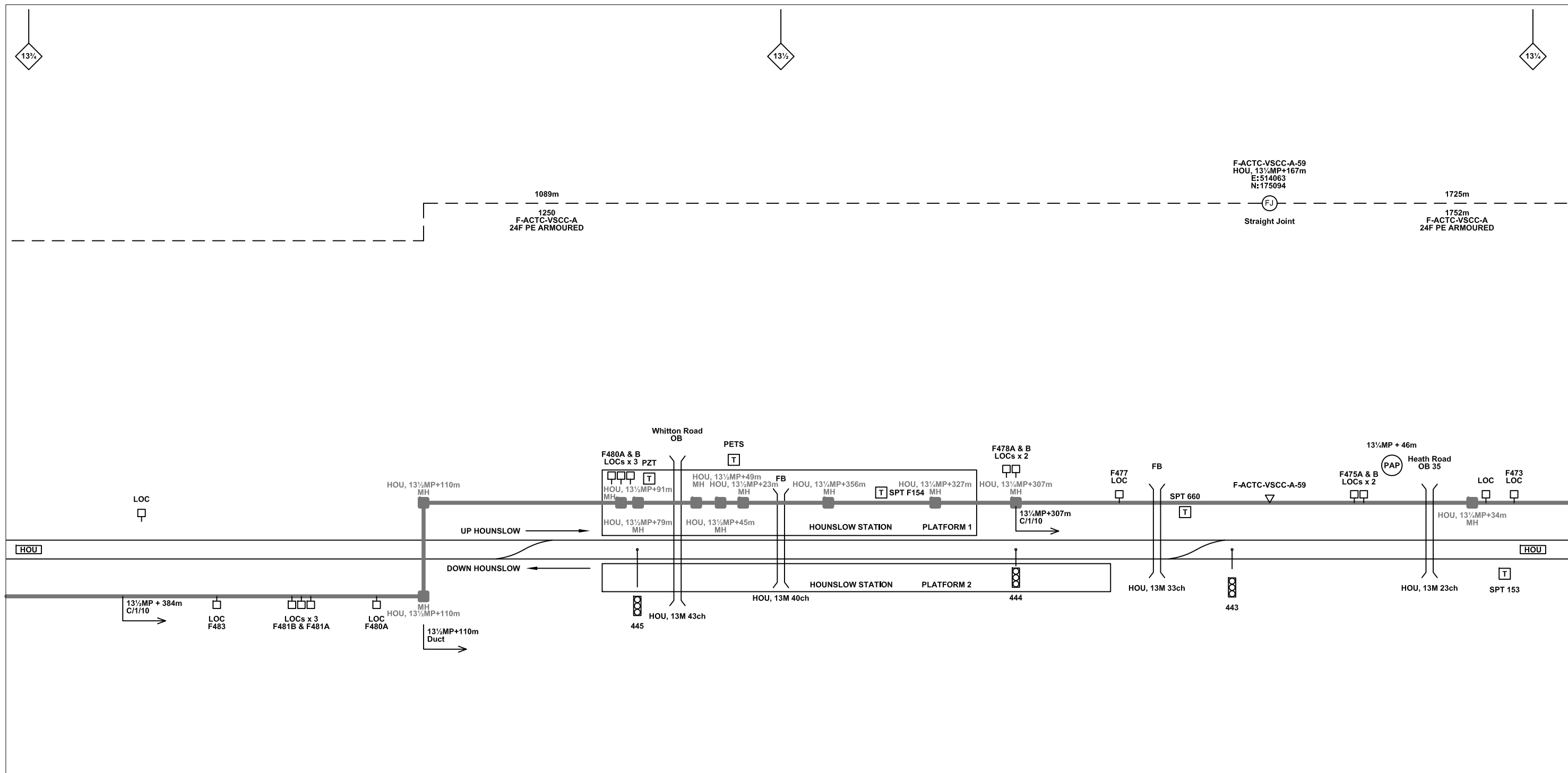


**Legend**

	Cabinet and Verts		Copper Joint		Trough Duct Cable Tray		Signal Box		FTN Core Node		Screen Joint Routeworks		Overbridge		Signal		Engineer's Line Reference		Crossing		GAS	Gas Line
	Cabinet with Regenerator and Verts		Fibre Joint		Cable - Type Identified by FTN Code Status - as per Key Below		Electrical Control Room		Core Node with GSM-R Colocated		Copper Joint Routeworks		Underbridge		Vehicle Access Point		Mile Post		Gantry		HV	HV Cable
<b>KEY</b>			Screening Conductor Joint with/without Earth		Manhole		Mid Length Sheath Gap Fibre		FTN Access Node		Cabinet Routeworks		Tunnel		Pedestrian Access Point		Platform		Water		LV	LV Cable
					Sheath Gap Copper		FTN Access Node with GSM-R Colocated		Fibre Joint Routeworks		Earth Farm		Buffer Stop		Telephone		Cable Pull		Mast		SEW	Sewer

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				Contractor(s)				<table border="1"> <tr> <td>Designed</td> <td>Michal Taraj</td> <td>Sign.</td> <td></td> <td>Date</td> <td>14/05/2013</td> </tr> <tr> <td>Drawn</td> <td>Michal Taraj</td> <td>Sign.</td> <td></td> <td>Date</td> <td>14/05/2013</td> </tr> <tr> <td>Checked</td> <td>Rashmi Patel</td> <td>Sign.</td> <td></td> <td>Date</td> <td>14/05/2013</td> </tr> <tr> <td>Approved</td> <td>Steve Witt</td> <td>Sign.</td> <td></td> <td>Date</td> <td>14/05/2013</td> </tr> </table>				Designed	Michal Taraj	Sign.		Date	14/05/2013	Drawn	Michal Taraj	Sign.		Date	14/05/2013	Checked	Rashmi Patel	Sign.		Date	14/05/2013	Approved	Steve Witt	Sign.		Date	14/05/2013				
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Status: <b>As-built</b>				Project: <b>FTN/GSM-R Project CA6 LOR ACTC-VSCC Stage 2</b>				FTN/GSM-R Project Tournament House Paddington London W2 1HA																															
Drawing Title: <b>Hounslow Station (2125) to Brentford Station (2127) via Feltham (FLTS)</b>				Alternative Reference: <b>See Layout Tab 841 x 297 Sheet 2</b>				Sheet: <b>4 of 10</b>																															
Drawing Number: <b>NTPO\SLD/2125\2127\001</b>				Revision: <b>C</b>																																			



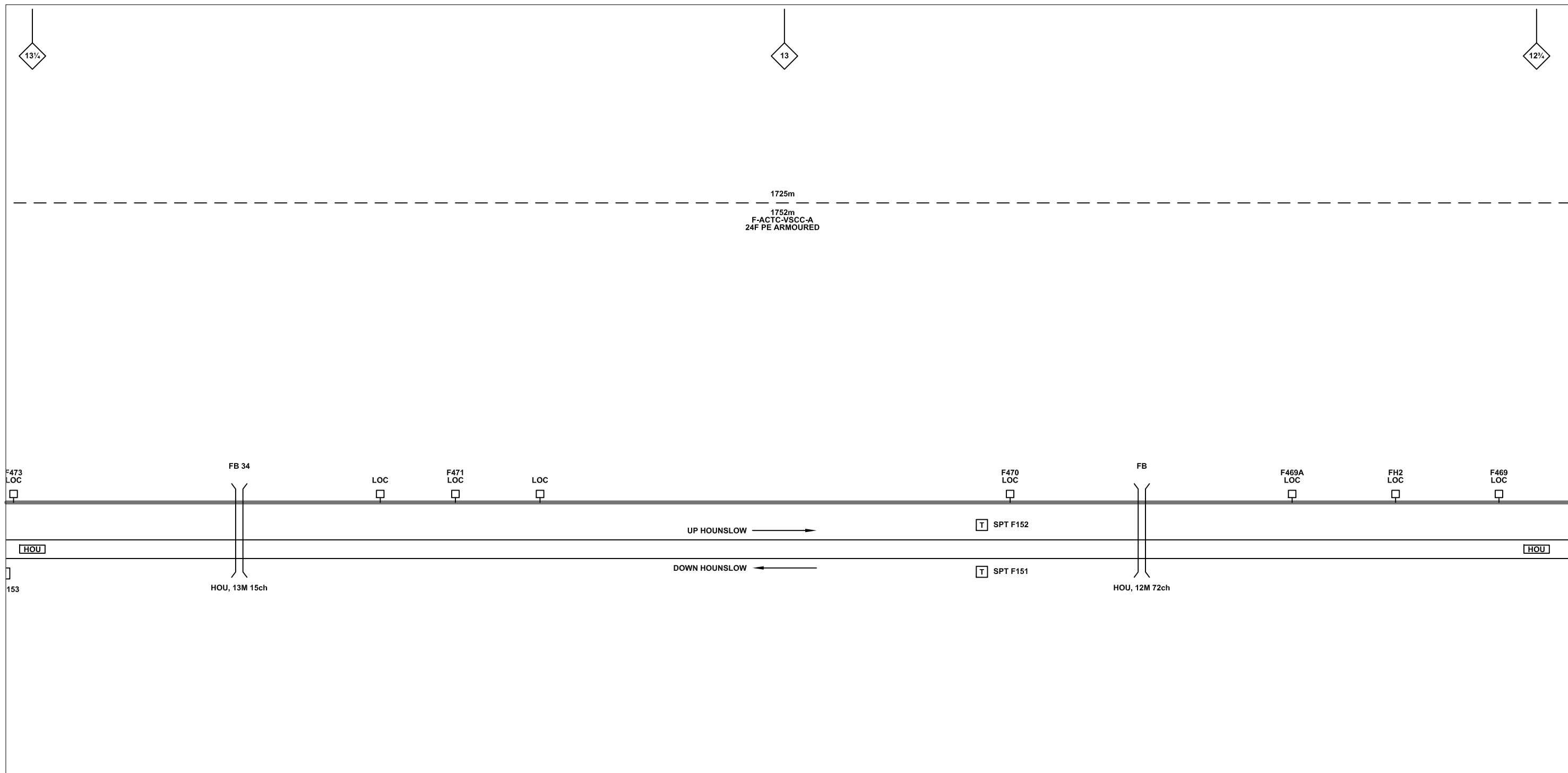
**Legend**

	Cabinet and Verts		Copper Joint		Trough Duct Cable Tray		Signal Box		FTN Core Node		Screen Joint Routeworks		Overbridge		Signal		Engineer's Line Reference		Crossing		Gas Line
	Cabinet with Regenerator and Verts		Fibre Joint		Cable - Type Identified by FTN Code		Electrical Control Room		Core Node with GSM-R Colocated		Copper Joint Routeworks		Underbridge		Vehicle Access Point		Mile Post		Gantry		HV Cable
	KEY		Screening Conductor Joint with/without Earth		Manhole		Mid Length Sheath Gap Fibre		FTN Access Node		Cabinet Routeworks		Pedestrian Access Point		Platform		Sewer		Water		LV Cable
			Existing Fibre Cable		Sheath Gap Copper		FTN Access Node with GSM-R Colocated		Fibre Joint Routeworks		Tunnel		Earth Farm		Buffer Stop		Telephone		Cable Pull		Mast

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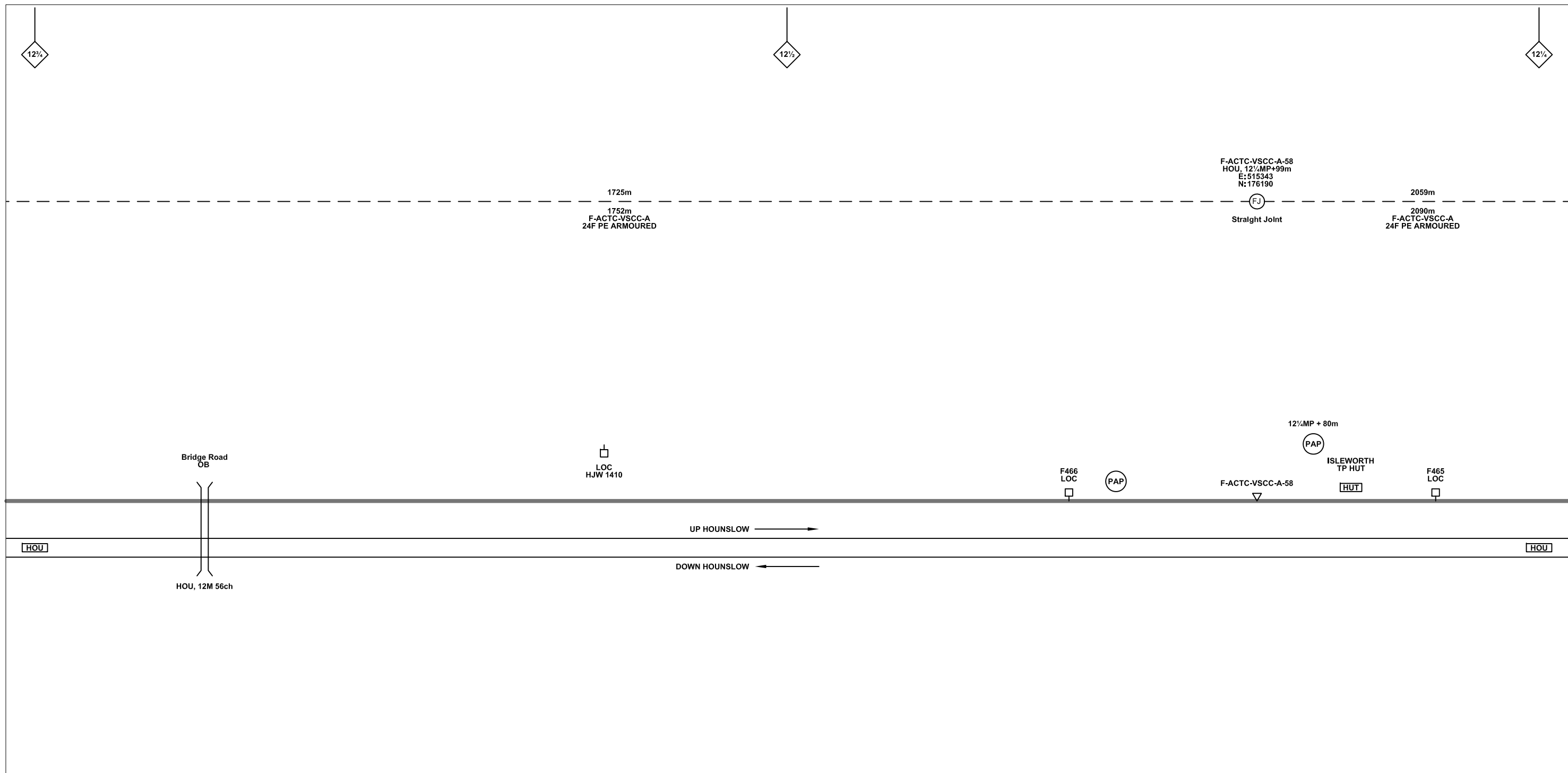
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Rev Date Description of Revisions Drawn Chkd Appr			Scale(s) NTS			ELR & Mileage RDG1, HOU & HJW			Project <b>FTN/GSM-R Project CA6 LOR ACTC-VSCC Stage 2</b>			FTN/GSM-R Project Tournament House Paddington London W2 1HA			Drawing Number NTPO\SLD/2125\2127\001			Revision <b>C</b>					



**Legend**

Cabinet and Verts	Copper Joint	Trough Duct Cable Tray	Signal Box	FTN Core Node	Screen Joint Routeworks	Manhole details: Cross-To be used, Filled-In use, Clear-Empty	Overbridge	Signal	Engineer's Line Reference	Crossing	Gas Line
Cabinet with Regenerator and Verts	Fibre Joint	Cable - Type Identified by FTN Code	Electrical Control Room	Core Node with GSM-R Colocated	Copper Joint Routeworks	Manhole	Underbridge	Vehicle Access Point	Mile Post	Gantry	HV Cable
<b>KEY</b>	Screening Conductor Joint with/without Earth	2034m F-DIDC-RGAC-A	Status - as per Key Below	FTN Access Node	Cabinet Routeworks	Mid Length Sheath Gap Fibre	Tunnel	Pedestrian Access Point	Platform	Water	LV Cable
<b>Proposed Fibre &amp; Civils Elements are shown in RED</b>	Existing Fibre Cable	Existing Copper Cable	Existing Screen Cable	FTN Access Node with GSM-R Colocated	Fibre Joint Routeworks	Sheath Gap Copper	Earth Farm	Buffer Stop	Telephone	Mast	Telecoms
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		NTS		ELR & Mileage: RDG1, HOU & HJW		Sheet 6 of 10
						Revision: C



**Legend**

Cabinet and Verts	Copper Joint	Trough Duct Cable Tray	Signal Box	FTN Core Node	Screen Joint Routeworks	Overbridge	Signal	Engineer's Line Reference	Crossing	Gas Line
Cabinet with Regenerator and Verts	Fibre Joint	Cable - Type Identified by FTN Code	Electrical Control Room	Core Node with GSM-R Colocated	Copper Joint Routeworks	Underbridge	Vehicle Access Point	Mile Post	Gantry	HV Cable
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Contractor(s)

**As-built**

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Project	FTN/GSM-R Project CA6 LOR ACTC-VSCC Stage 2			
Drawing Title	Hounslow Station (2125) to Brentford Station (2127) via Feltham (FLTS)			

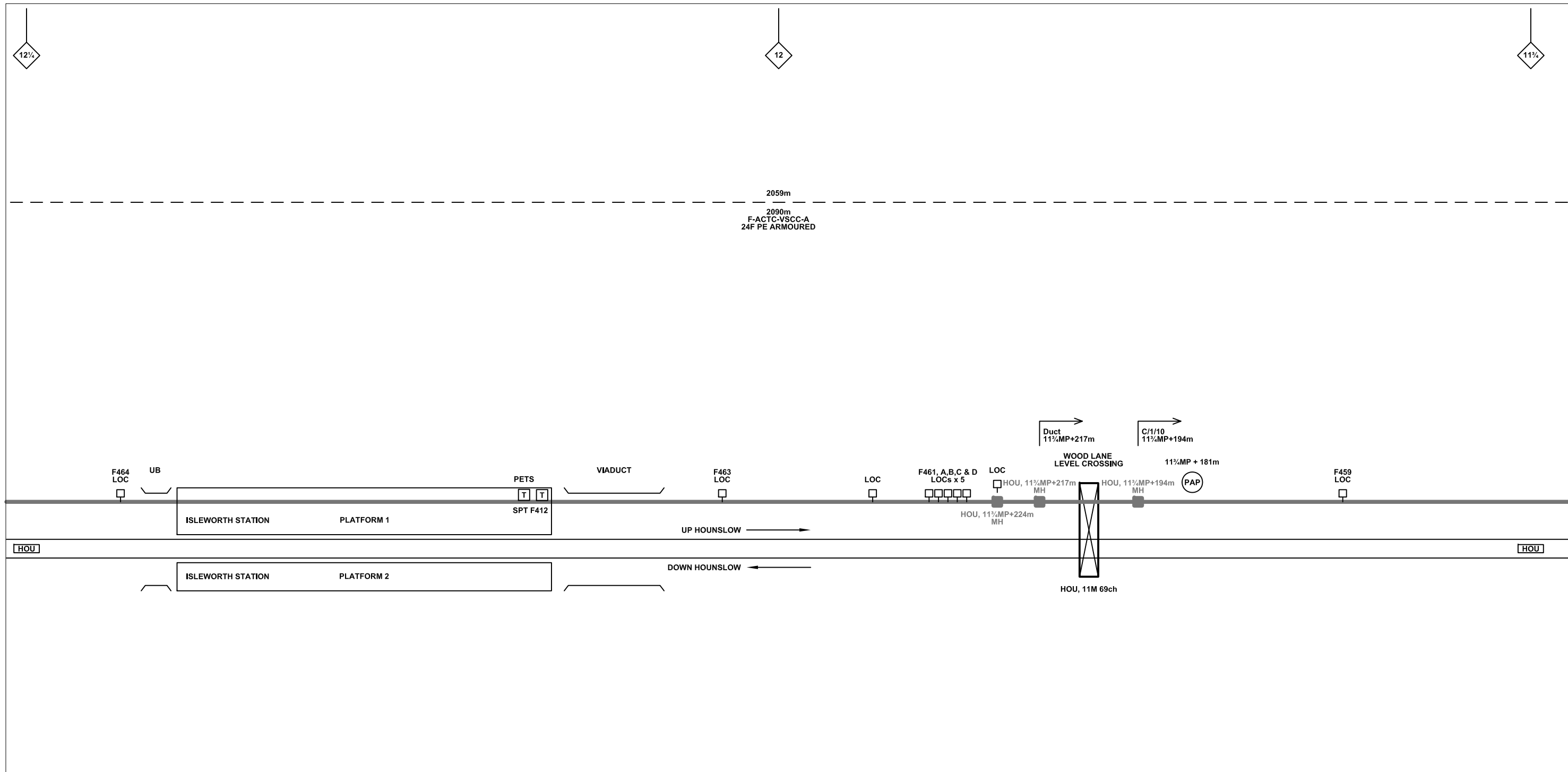
FTN/GSM-R Project  
Tournament House  
Paddington  
London  
W2 1HA

Alternative Reference See Layout Tab 841 x 297 Sheet 4

Drawing Number NTPO\SLD\2125\2127\001

Sheet 7 of 10

Revision C



**Legend**

	Cabinet and Verts		Copper Joint		Trough Duct Cable Tray		Signal Box		FTN Core Node		Screen Joint Routeworks		Overbridge		Signal		Engineer's Line Reference		Crossing		Gas Line
	Cabinet with Regenerator and Verts		Fibre Joint		Cable - Type Identified by FTN Code		Electrical Control Room		Core Node with GSM-R Colocated		Copper Joint Routeworks		Underbridge		Vehicle Access Point		Mile Post		Gantry		HV Cable
	<b>KEY</b>		Screening Conductor Joint with/without Earth		Manhole		Mid Length Sheath Gap Fibre		FTN Access Node		Cabinet Routeworks		Tunnel		Pedestrian Access Point		Platform		Water		LV Cable
	Proposed Fibre & Civils Elements are shown in RED		All Existing Elements are shown in BLACK		Sheath Gap Copper		FTN Access Node with GSM-R Colocated		Fibre Joint Routeworks		Earth Farm		Buffer Stop		Telephone		Cable Pull		Mast		Sewer
	Proposed Copper Elements are shown in BLUE		Existing Fibre Cable		Existing Copper Cable		Existing Screen Cable														Gas
	Proposed Screening Elements are shown in MAGENTA		Existing Fibre Cable		Existing Copper Cable		Existing Screen Cable														HV
	All Recoveries are shown in GREEN		Existing Fibre Cable		Existing Copper Cable		Existing Screen Cable														LV

Notes

C	20/06/2013	Re-Drawn by NWR to Include all Stage 2 Construction As-Built	PT	PB	GH
B	14/05/2013	Converted to As-built	MT	RP	SW
A	06/04/2011	Redrafted from NTPOSLDHWJNWNJN001B.dwg, 2118-2125-2127 AS-BUILT SLD.dwg & NTPOSLD21162127001A.dwg	DA	JW	CT
Rev	Date	Description of Revisions	Drawn	Chkd	Appr

Contractor(s)

**As-built**

Scale(s) NTS

ELR & Mileage RDG1, HOU & HJW

Designed	Michal Taraj	Sign.	Date	14/05/2013
Drawn	Michal Taraj	Sign.	Date	14/05/2013
Checked	Rashmi Patel	Sign.	Date	14/05/2013
Approved	Steve Witt	Sign.	Date	14/05/2013
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Drawing Title	Hounslow Station (2125) to Brentford Station (2127) via Feltham (FLTS)			

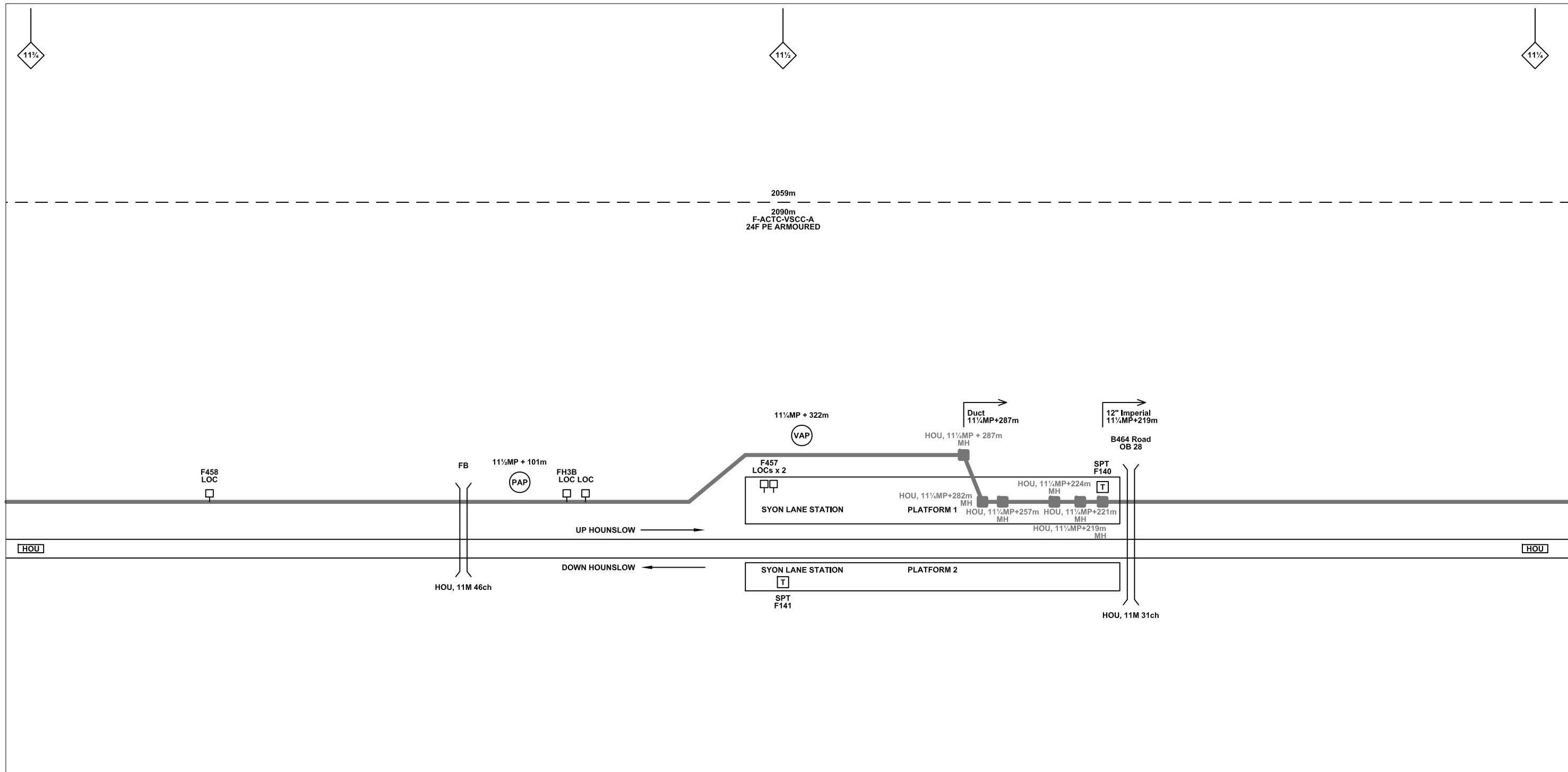
FTN/GSM-R Project  
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Paddington  
London  
W2 1HA

Alternative Reference See Layout Tab 841 x 297 Sheet 4

Drawing Number NTPO\SLD\2125\2127\001

Sheet 8 of 10

Revision C



**Legend**

Cabinet and Verts	Copper Joint	Trough Duct Cable Tray	Signal Box	FTN Core Node	Screen Joint Routeworks	Overbridge	Signal	Engineer's Line Reference	Crossing	Gas Line
Cabinet with Regenerator and Verts	Fibre Joint	Cable - Type Identified by FTN Code	Electrical Control Room	Core Node with GSM-R Colocated	Copper Joint Routeworks	Underbridge	Vehicle Access Point	Mile Post	Gantry	HV Cable
<b>KEY</b>	Screening Conductor Joint with/without Earth	Status - as per Key Below	Manhole	FTN Access Node	Cabinet Routeworks	Tunnel	Pedestrian Access Point	Platform	Water	LV Cable
<b>Proposed Fibre &amp; Civils Elements are shown in RED</b>	Existing Fibre Cable	Existing Copper Cable	Mid Length Sheath Gap Fibre	FTN Access Node with GSM-R Colocated	Fibre Joint Routeworks	Earth Farm	Buffer Stop	Telephone	Mast	Sewer
<b>Proposed Copper Elements are shown in BLUE</b>	Existing Screen Cable	Sheath Gap Copper	Sheath Gap Copper							Telecoms
<b>Proposed Screening Elements are shown in MAGENTA</b>										
<b>All Recoveries are shown in GREEN</b>										

Notes

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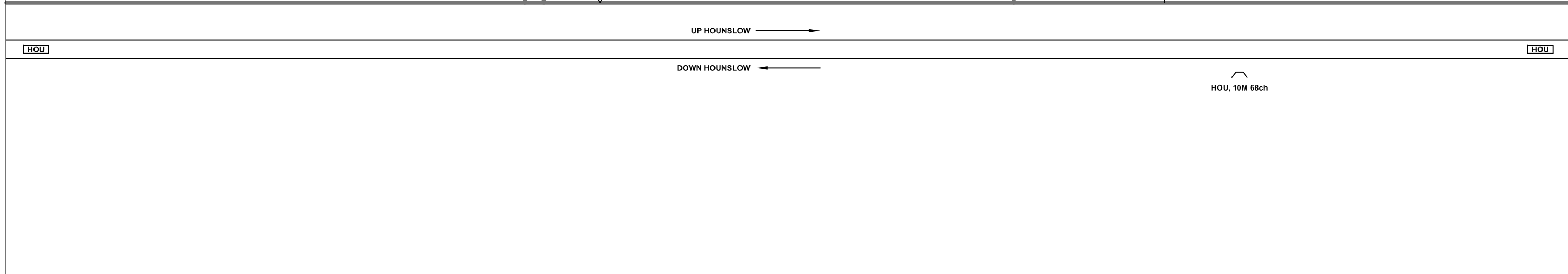
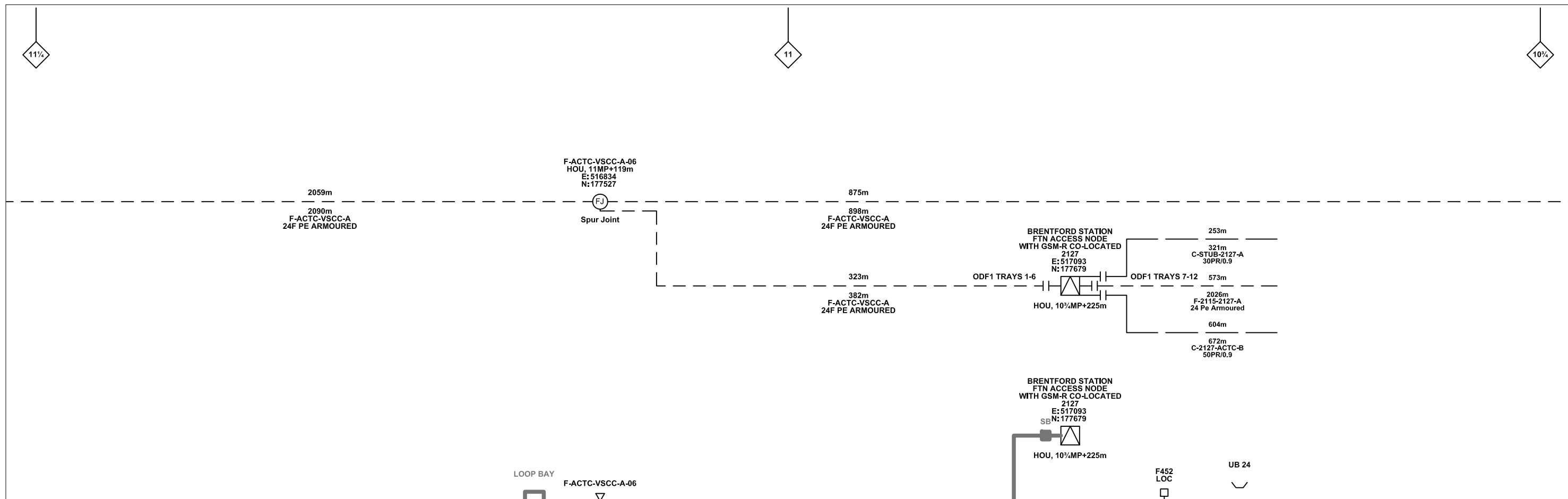
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London  
W2 1HA

Alternative Reference See Layout Tab 841 x 297 Sheet 5

Drawing Number NTPO\SLD\2125\2127\001

Sheet 9 of 10

Revision C



**Legend**

Cabinet and Verts	Copper Joint	Trough Duct Cable Tray	Signal Box	FTN Core Node	Screen Joint Routeworks	Overbridge	Signal	Engineer's Line Reference	Crossing	Gas Line
Cabinet with Regenerator and Verts	Fibre Joint	Cable - Type Identified by FTN Code	Electrical Control Room	Core Node with GSM-R Colocated	Copper Joint Routeworks	Underbridge	Vehicle Access Point	Mile Post	Gantry	HV Cable
<b>KEY</b>	Screening Conductor Joint with/without Earth	Status - as per Key Below	Manhole	FTN Access Node	Cabinet Routeworks	Manhole details: Cross-To be used, Filled-In use, Clear-Empty	Pedestrian Access Point	Platform	Sewer	LV Cable
<b>Proposed Fibre &amp; Civils Elements are shown in RED</b>	Existing Fibre Cable	Existing Copper Cable	Mid Length Sheath Gap Fibre	FTN Access Node with GSM-R Colocated	Fibre Joint Routeworks	Tunnel	Earth Farm	Buffer Stop	Telecoms	Water
<b>Proposed Copper Elements are shown in BLUE</b>	Existing Screen Cable	Sheath Gap Copper	Sheath Gap Copper					Telephone	Mast	
<b>Proposed Screening Elements are shown in MAGENTA</b>										
<b>All Recoveries are shown in GREEN</b>										
<b>All Existing Elements are shown in BLACK</b>										

Notes			Contractor(s)			<table border="1"> <tr><td>Designed</td><td>Michal Taraj</td><td>Sign.</td><td>Date</td><td>14/05/2013</td></tr> <tr><td>Drawn</td><td>Michal Taraj</td><td>Sign.</td><td>Date</td><td>14/05/2013</td></tr> <tr><td>Checked</td><td>Rashmi Patel</td><td>Sign.</td><td>Date</td><td>14/05/2013</td></tr> <tr><td>Approved</td><td>Steve Witt</td><td>Sign.</td><td>Date</td><td>14/05/2013</td></tr> </table>			Designed	Michal Taraj	Sign.	Date	14/05/2013	Drawn	Michal Taraj	Sign.	Date	14/05/2013	Checked	Rashmi Patel	Sign.	Date	14/05/2013	Approved	Steve Witt	Sign.	Date	14/05/2013																																																																																		
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