

Legend

Cabinet and Verts	Copper Joint	Trough Duct Cable Tray	Signal Box	FTN Core Node	Screen Joint Routeworks	Overbridge	Signal	Engineer's Line Reference	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	Manhole	Vehicle Access Point	Mile Post	HV Cable
KEY	Screening Conductor Joint with/without Earth	Manhole	Mid Length Sheath Gap Fibre	FTN Access Node	Cabinet Routeworks	Tunnel	Pedestrian Access Point	Platform	LV Cable
Proposed Fibre & Civils Elements are shown in RED	Sheath Gap Copper	Manhole	FTN Access Node with GSM-R Colocated	Fibre Joint Routeworks	Fibre Joint Routeworks	Earth Form	Buffer Stop	Telephone	Sewer
Proposed Copper Elements are shown in BLUE		Manhole				Mast			Telecoms
Proposed Screening Elements are shown in MAGENTA									Water
All Recoveries are shown in GREEN									

Notes

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
B	11/01/13	Stage 2 As-Built	OW	KS	CT
A	21/10/11	Redrafted from 1168-GILL-SLD.V1.1.dwg, 1168-TEMP-SLD.V1.1.dwg & 1167-TEMP-SLD.V1.1.dwg	SM	JW	CT

Contractor(s)

McNicholas MURPHY

ndcconsultants

Unit 4 Apex Park, Watnigh Road, Worcester, Worcestershire, WR4 9FN. Tel: 01905 756000

Designed	Sign.	Date
Drawn	Sign.	Date
Checked	Sign.	Date
Approved	Sign.	Date
Project	FTN/GSM-R Project Stage 2 As-Built	
Drawing Title	Stowell Wood (1167) to Gillingham Tunnel (1168)	

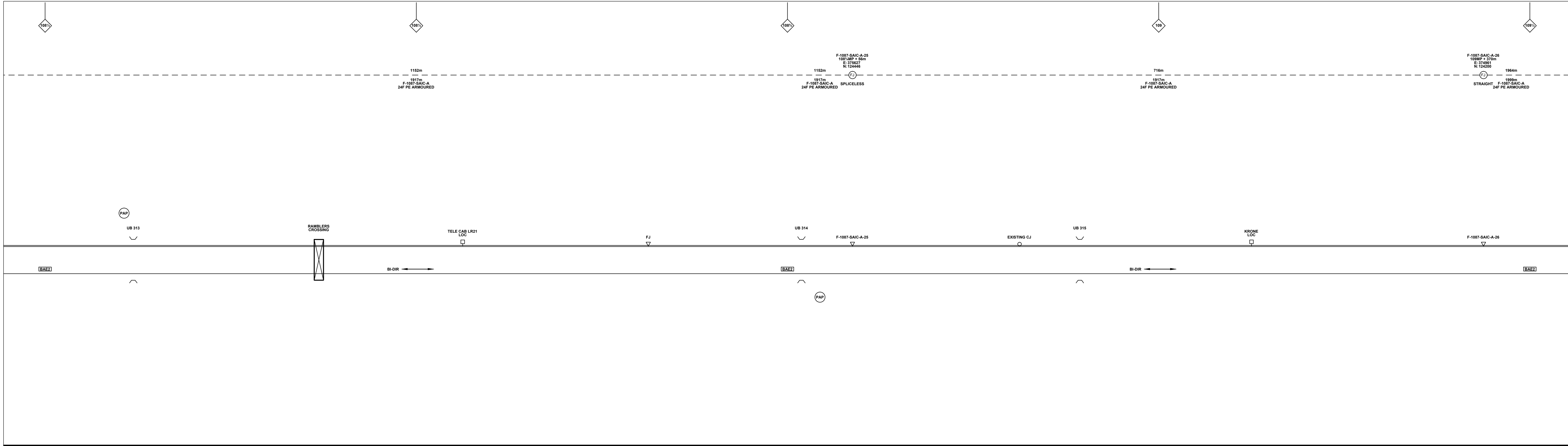
Network Rail

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

Alternative Reference: See Layout Tab A3 Sheets 1 and 2

Drawing Number: NTPO\SLD\1167\1168\001

Sheet 1 of 7
Revision B



Legend

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

Notes

B	11/01/13	Stage 2 As-Built	OW	KS	CT
A	21/10/11	Redrafted from 1168-GILL-SLD.V1.1.dwg, 1168-TEMP-SLD.V1.1.dwg & 1167-TEMP-SLD.V1.1.dwg	SM	JW	CT
Rev	Date	Description of Revisions	Drawn	Chkd	Appr

Contractor(s)

McNicholas **MURPHY**

ndcconsultants

Unit 4 Apex Park, Wainwright Road, Worcester, Worcestershire, WR4 9FN. Tel: 01905 756000

Designed	Simon McElroy	Sign.		Date	21/10/2011
Checked	Joe Winter	Sign.		Date	21/10/2011
Approved	Chris Tappenden	Sign.		Date	21/10/2011
Project	FTN/GSM-R Project Stage 2 As-Built				
Drawing Title	Stowell Wood (1167) to Gillingham Tunnel (1168)				

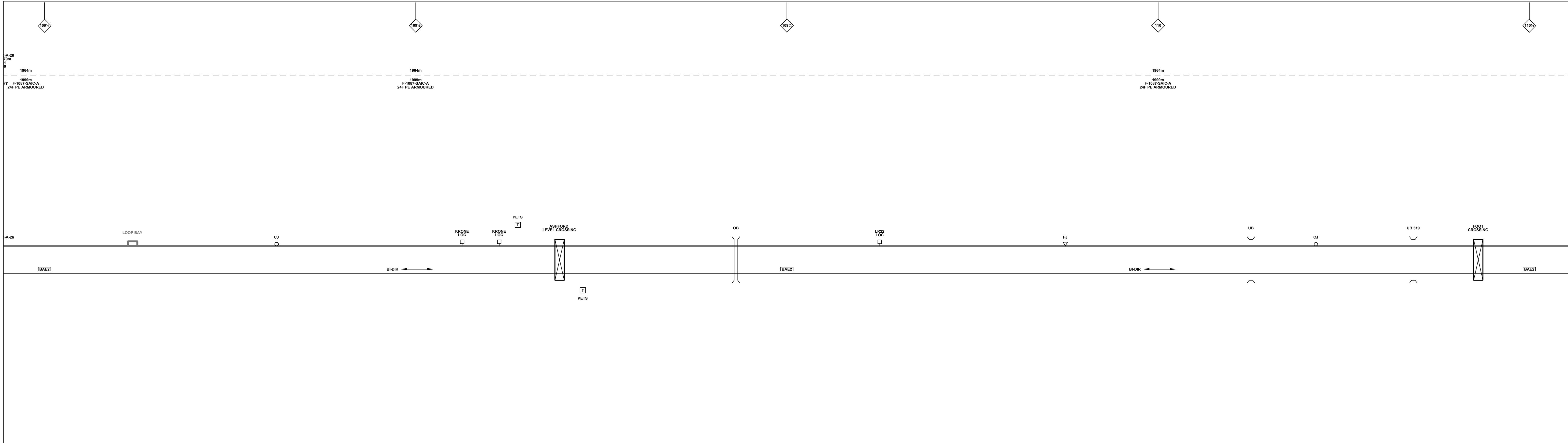
Network Rail

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

Alternative Reference: See Layout Tab A3 Sheets 3 and 4

Drawing Number: NTPO\SLD\1167\1168\001

Sheet 2 of 7
Revision B



Legend

Cabinet and Verts	Copper Joint	Trough Duct Cable Tray	Signal Box	FTN Core Node	Screen Joint Routeworks	Manhole	Overbridge	Signal	Engineer's Line Reference	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	Mid Length Sheath Gap Fibre	Underbridge	Vehicle Access Point	Mile Post	HV Cable
KEY	Screening Conductor Joint with/without Earth	Manhole	Manhole	FTN Access Node	Cabinet Routeworks	Sheath Gap Copper	Platform	Pedestrian Access Point	Platform	LV Cable
Proposed Fibre & Civils Elements are shown in RED	Existing Fibre Cable	Manhole	Manhole	FTN Access Node with GSM-R Colocated	Fibre Joint Routeworks	Existing Screen Cable	Earth Form	Buffer Stop	Telephone	Sewer
Proposed Copper Elements are shown in BLUE	Existing Copper Cable	Manhole	Manhole	Manhole	Manhole	Manhole	Mast	Manhole	Manhole	Water
Proposed Screening Elements are shown in MAGENTA	Existing Screen Cable	Manhole	Manhole	Manhole	Manhole	Manhole	Manhole	Manhole	Manhole	Manhole
All Existing Elements are shown in BLACK	Existing Fibre Cable	Manhole	Manhole	Manhole	Manhole	Manhole	Manhole	Manhole	Manhole	Manhole
All Recoveries are shown in GREEN	Existing Copper Cable	Manhole	Manhole	Manhole	Manhole	Manhole	Manhole	Manhole	Manhole	Manhole

Manhole details:
 Cross-To be used
 Filled-In use
 Clear-Empty

Notes

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
B	11/01/13	Stage 2 As-Built	OW	KS	CT
A	21/10/11	Redrafted from 1168-GILL-SLD.V1.1.dwg, 1168-TEMP-SLD.V1.1.dwg & 1167-TEMP-SLD.V1.1.dwg	SM	JW	CT

Contractor(s)

McNicholas **MURPHY**

ndcconsultants

Unit 4 Apex Park, Walnutridge Road, Worcester, Worcestershire, WR4 9FN. Tel: 01905 756000

Designed	Simon McElroy	Sign.		Date	21/10/2011
Checked	Joe Winter	Sign.		Date	21/10/2011
Approved	Chris Tappenden	Sign.		Date	21/10/2011

FTN/GSM-R Project Stage 2 As-Built

Drawing Title: **Stowell Wood (1167) to Gillingham Tunnel (1168)**

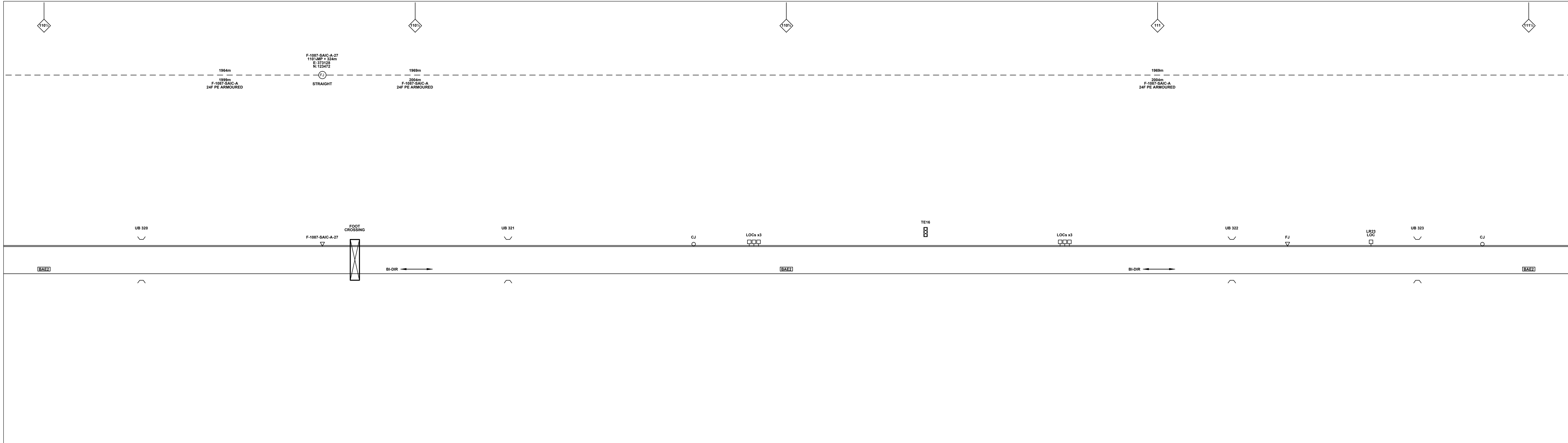
Network Rail

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

Alternative Reference: **See Layout Tab A3 Sheets 5 and 6**

Drawing Number: **NTPO\SLD\1167\1168\001**

Sheet **3** of **7**
Revision **B**



Legend

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

Notes

B	11/01/13	Stage 2 As-Built	OW	KS	CT
A	21/10/11	Redrafted from 1168-GILL-SLD.V1.1.dwg, 1168-TEMP-SLD.V1.1.dwg & 1167-TEMP-SLD.V1.1.dwg	SM	JW	CT
Rev	Date	Description of Revisions	Drawn	Chkd	Appr

Contractor(s)

McNicholas **MURPHY**

ndcconsultants

Unit 4 Apex Park, Wainwright Road, Worcester, Worcestershire, WR4 9FN. Tel: 01905 756000

Designed	Simon McElroy	Sign.		Date	21/10/2011
Checked	Joe Winter	Sign.		Date	21/10/2011
Approved	Chris Tappenden	Sign.		Date	21/10/2011

Project: FTN/GSM-R Project
Stage 2 Design

Drawing Title: Stowell Wood (1167) to Gillingham Tunnel (1168)

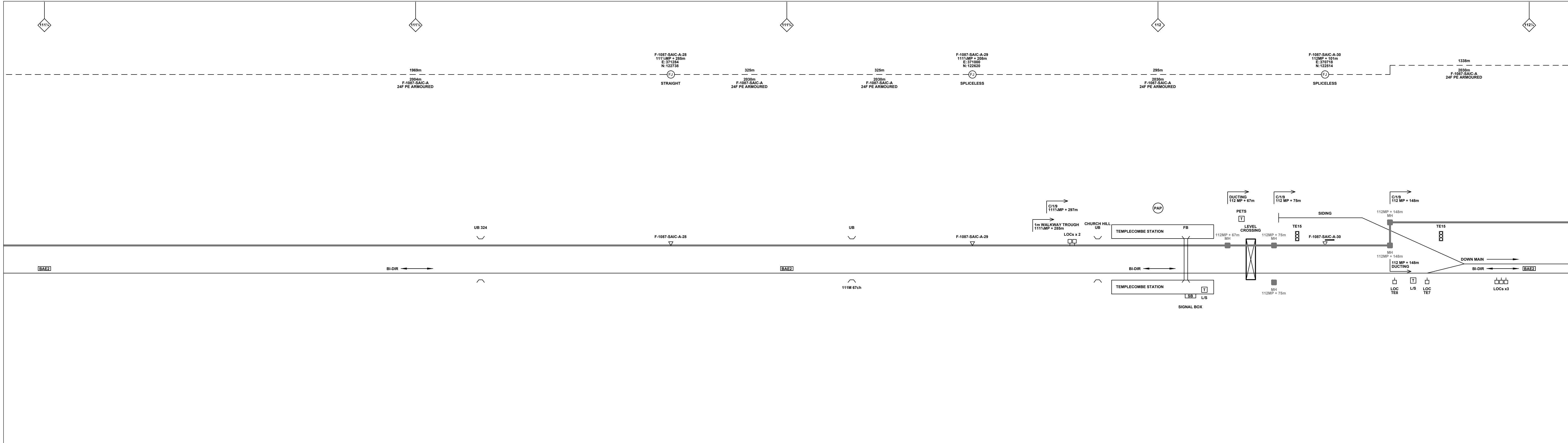
Network Rail

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

Alternative Reference: See Layout Tab A3 Sheets 7 and 8

Drawing Number: NTPO\SLD\1167\1168\001

Sheet 4 of 7
Revision 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
	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		Manhole		Underbridge		Vehicle Access Point		Mile Post
	Proposed Fibre & Civils Elements are shown in RED		Screening Conductor Joint with/without Earth		Manhole		Mid Length Sheath Gap Fibre		FTN Access Node		Cabinet Routeworks		Tunnel		Earth Form		Pedestrian Access Point		Platform
	Proposed Copper Elements are shown in BLUE		Manhole		Sheath Gap Copper		FTN Access Node with GSM-R Colocated		Fibre Joint Routeworks		Cable Pull		Mast		Buffer Stop		Telephone		
	Proposed Screening Elements are shown in MAGENTA																		
	All Recoveries are shown in GREEN																		
			Existing Fibre Cable																
			Existing Copper Cable																
			Existing Screen Cable																

Notes

B	11/01/13	Stage 2 As-Built	OW	KS	CT	Status
A	21/10/11	Redrafted from 1168-GILL-SLD.V1.1.dwg, 1168-TEMP-SLD.V1.1.dwg & 1167-TEMP-SLD.V1.1.dwg	SM	JW	CT	Scale(s)
Rev	Date	Description of Revisions	Drawn	Chkd	Appr	NTS

Contractor(s)

McNicholas **MURPHY**

ndcconsultants

Unit 4 Apex Park, Watnigh Road, Worcester, Worcestershire, WR4 9FN. Tel: 01905 756000

Designed	Simon McElroy	Sign.		Date	21/10/2011
Checked	Joe Winter	Sign.		Date	21/10/2011
Approved	Chris Tappenden	Sign.		Date	21/10/2011

FTN/GSM-R Project Stage 2 As-Built

Drawing Title: **Stowell Wood (1167) to Gillingham Tunnel (1168)**

Network Rail

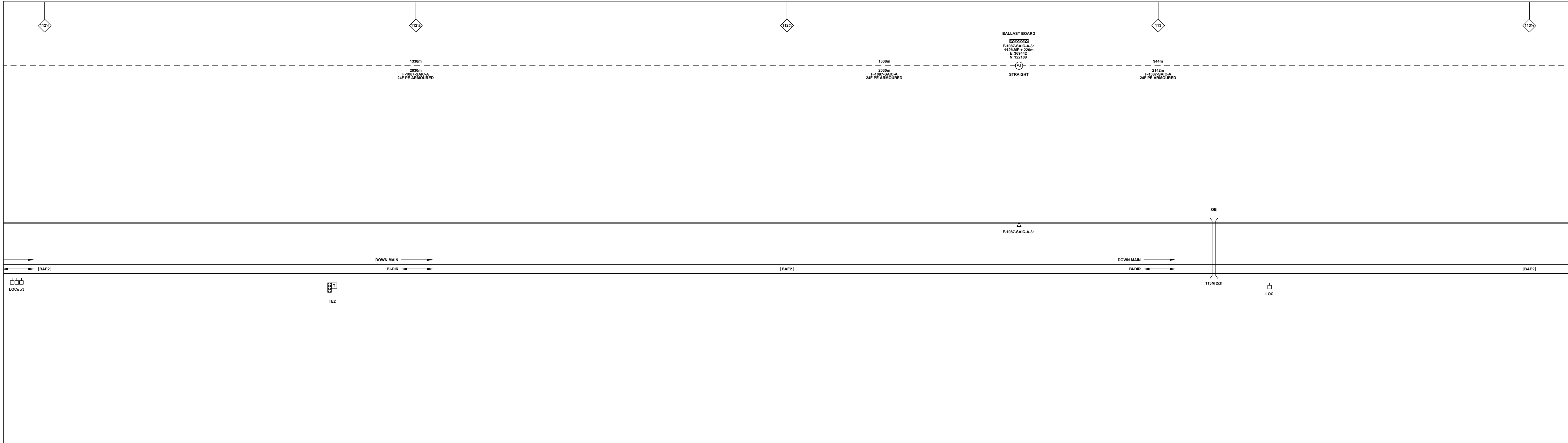
FTN/GSM-R Project
Tournament House
Passington
London
W12 1HA

Alternative Reference: **See Layout Tab A3 Sheets 9 and 10**

Drawing Number: **NTPO\SLD\1167\1168\001**

Sheet **5** of **7**

Revision **B**



Legend

Cabinet and Verts	Copper Joint	Trough Duct Cable Tray	Signal Box	FTN Core Node	Screen Joint Routeworks	Manhole	Overbridge	Signal	Engineer's Line Reference	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	Mid Length Sheath Gap Fibre	Underbridge	Vehicle Access Point	Mile Post	HV Cable
KEY	Screening Conductor Joint with/without Earth	1988m	Manhole	FTN Access Node	Cabinet Routeworks	Sheath Gap Copper	Platform	Pedestrian Access Point	LV Cable	Sewer
Proposed Fibre & Civils Elements are shown in RED		All Existing Elements are shown in BLACK	Tunnel	FTN Access Node with GSM-R Colocated	Fibre Joint Routeworks		Earth Form	Buffer Stop	Telephone	Telecoms
Proposed Copper Elements are shown in BLUE		Existing Fibre Cable	Manhole details: Cross-To be used Filled-In use Clear-Empty				Cable Pull			Water
Proposed Screening Elements are shown in MAGENTA		Existing Copper Cable								
All Recoveries are shown in GREEN		Existing Screen Cable								

Notes

B	11/01/13	Stage 2 As-Built	OW	KS	CT
A	21/10/11	Redrafted from 1168-GILL-SLD.V1.1.dwg, 1168-TEMP-SLD.V1.1.dwg & 1167-TEMP-SLD.V1.1.dwg	SM	JW	CT
Rev	Date	Description of Revisions	Drawn	Chkd	Appr

Contractor(s)

McNicholas **MURPHY**

ndcconsultants

Unit 4 Apex Park, Watnigh Road, Worcester, Worcestershire, WR4 9FN. Tel: 01905 756000

Designed	Sign.	Date
Drawn	Sign.	Date
Checked	Sign.	Date
Approved	Sign.	Date
Project	FTN/GSM-R Project Stage 2 As-Built	
Drawing Title	Stowell Wood (1167) to Gillingham Tunnel (1168)	

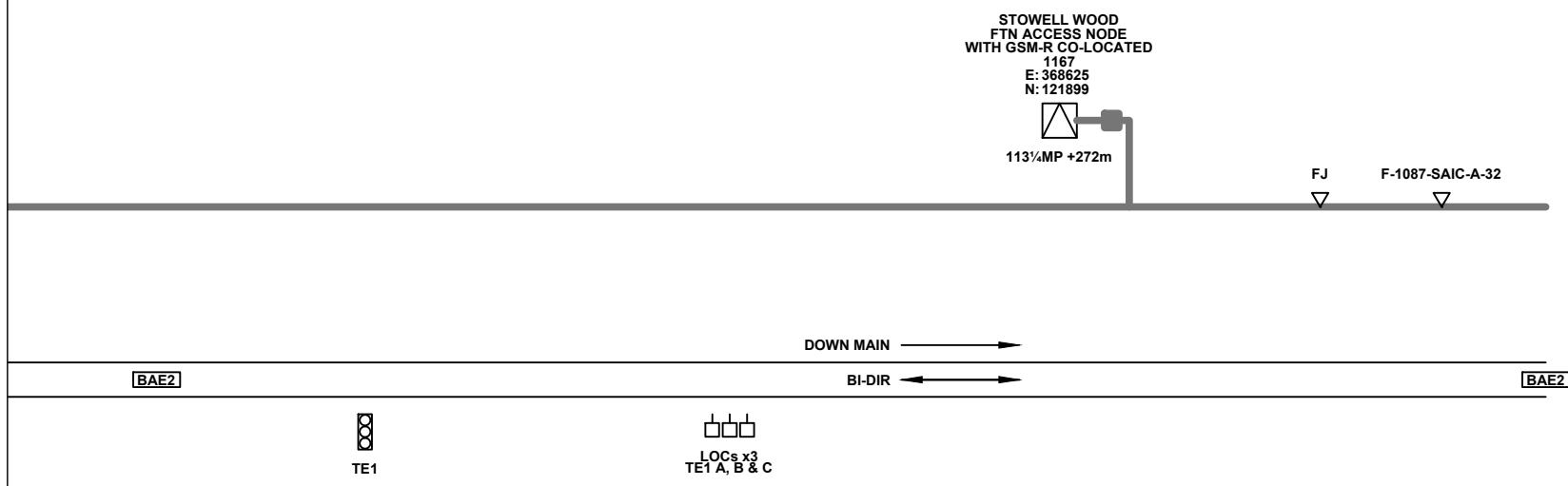
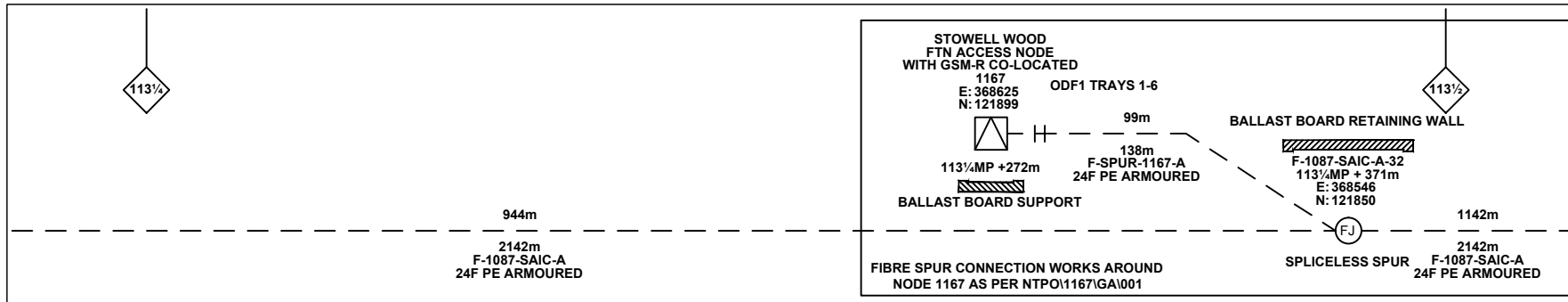
Network Rail

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

Alternative Reference: See Layout Tab A3 Sheets 11 and 12

Drawing Number: NTPO\SLD\1167\1168\001

Sheet 6 of 7
Revision 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	HV	LV	SEW	TEL	V	Copper Blue Fibre	Red Fibre	Screen Green	Mast
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	Manhole	Underbridge	Vehicle Access Point	Mile Post	Gantry	HV Cable	LV Cable	Sewer	Telecoms	Water	Copper	Blue Fibre	Green Fibre	Mast	
KEY		1988m	2034m	Manhole	Manhole	Manhole	Manhole	Manhole	Manhole	Manhole	Manhole	Manhole	Manhole	Manhole	Manhole	Manhole	Manhole	Manhole	Manhole	Manhole
Proposed Fibre & Civils Elements are shown in RED		All Existing Elements are shown in BLACK																		
Proposed Copper Elements are shown in BLUE		Existing Fibre Cable																		
Proposed Screening Elements are shown in MAGENTA		Existing Copper Cable																		
All Recoveries are shown in GREEN		Existing Screen Cable																		

Notes

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
B	11/01/13	Stage 2 As-Built	OW	KS	CT
A	21/10/11	Redrafted from 1168-GILL-SLD.V1.1.dwg, 1168-TEMP-SLD.V1.1.dwg & 1167-TEMP-SLD.V1.1.dwg	SM	JW	CT

Contractor(s)

McNicholas **MURPHY**

ndcconsultants

Unit 4 Apex Park, Wainwright Road, Worcester, Worcestershire, WR4 9FN. Tel: 01905 756000

Designed	Sign.	Date
Drawn	Sign.	Date
Checked	Sign.	Date
Approved	Sign.	Date
Project	FTN/GSM-R Project Stage 2 As-Built	
Drawing Title	Stowell Wood (1167) to Gillingham Tunnel (1168)	

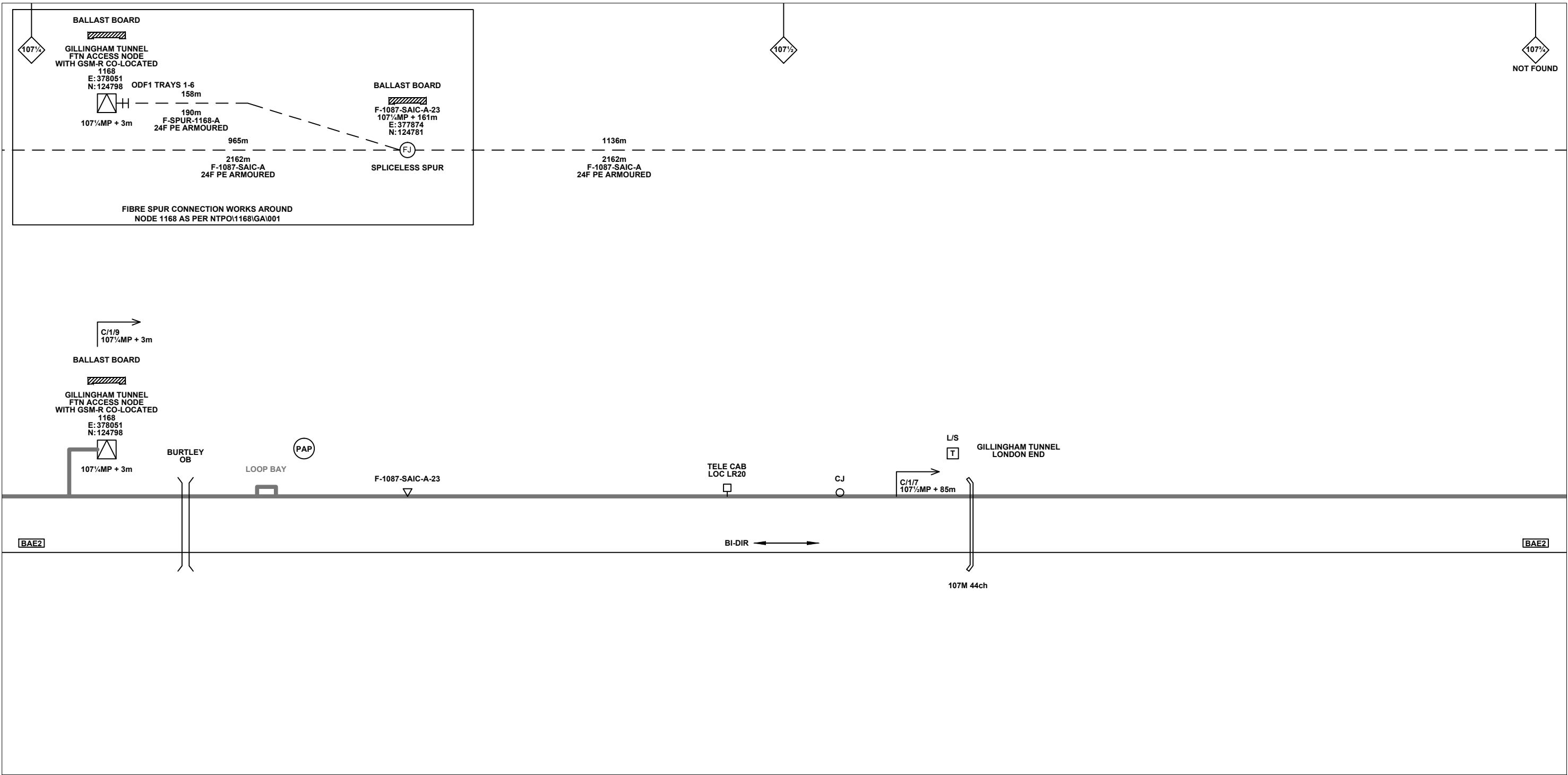
Network Rail

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

Alternative Reference: See Layout Tab A3 Sheet 13

Sheet 7 of 7

Revision 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	Manhole	Vehicle Access Point	Mile Post	HV Cable	LV Cable
KEY	Screening Conductor Joint with/without Earth	Status - as per Key Below	Mid Length Sheath Gap Fibre	FTN Access Node	Cabinet Routeworks	Manhole details: Cross-To be used, Filled-In use, Clear-Empty	Pedestrian Access Point	Platform	Sewer	Water
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	Tunnel	Earth Farm	Buffer Stop	Telephone	Cable Pull
Proposed Copper Elements are shown in BLUE		--- Existing Fibre Cable								Mast
Proposed Screening Elements are shown in MAGENTA		--- Existing Copper Cable								
All Recoveries are shown in GREEN		--- Existing Screen Cable								

Notes

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
B	11/01/13	Stage 2 As-Built	OW	KS	CT
A	21/10/11	Redrafted from 1168-GILL-SLD.V1.1.dwg, 1168-TEMP-SLD.V1.1.dwg & 1167-TEMP-SLD.V1.1.dwg	SM	JW	CT

Contractor(s)

Unit 4 Apex Park, Wainwright Road, Worcester, Worcestershire, WR4 9FN. Tel: 01905 756000

Status: **As-Built**

Scale(s): NTS

ELR & Mileage: BAE2

Designed		Sign.		Date	
Drawn	Simon McElroy	Sign.		Date	21/10/2011
Checked	Joe Winter	Sign.		Date	21/10/2011
Approved	Chris Tappenden	Sign.		Date	21/10/2011
Project	FTN/GSM-R Project Stage 2 As-Built				
Drawing Title	Stowell Wood (1167) to Gillingham Tunnel (1168)				

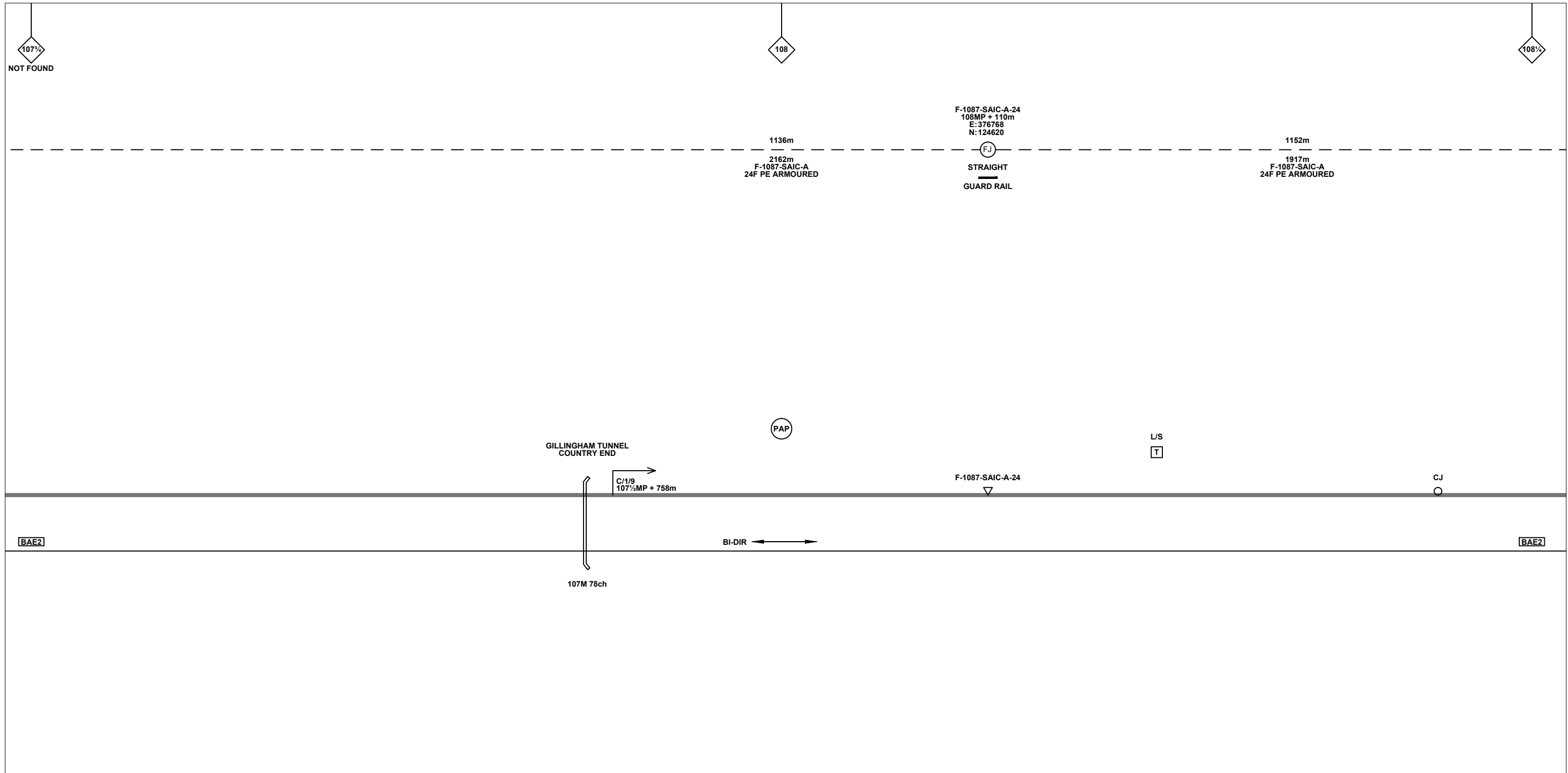
FTN/GSM-R Project
Tournament House
Paddington
London
W2 1HA

Alternative Reference: See Layout Tab 841 x 297 Sheet 1

Drawing Number: NTPO\SLD\1167\1168\001

Sheet: 1 of 13

Revision: B



Legend

Cabinet and Verts	Copper Joint	Signal Box	FTN Core Node	Screen Joint Routeworks	Overbridge	Signal	Engineer's Line Reference	Crossing	GAS	GAS	Gas Line
Cabinet with Regenerator and Verts	Fibre Joint	Electrical Control Room	Core Node with GSM-R Colocated	Copper Joint Routeworks	Underbridge	Vehicle Access Point	Mile Post	Gantry	HV	HV	HV Cable
KEY	Screening Conductor Joint with/without Earth	Manhole	FTN Access Node	Cabinet Routeworks	Manhole details: Cross-To be used Filled-In use Clear-Empty	Pedestrian Access Point	Platform	SEW	SEW	SEW	Sewer
Proposed Fibre & Civils Elements are shown in RED		Mid Length Sheath Gap Fibre	FTN Access Node with GSM-R Colocated	Fibre Joint Routeworks	Tunnel	Earth Farm	Buffer Stop	Telephone	TEL	TEL	Telecoms
Proposed Copper Elements are shown in BLUE		Sheath Gap Copper							v	v	Water
Proposed Screening Elements are shown in MAGENTA									Cable Pull	Copper Blue Fibre Red Screen Green	Mast
All Recoveries are shown in GREEN											

Notes

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
B	11/01/13	Stage 2 As-Built	OW	KS	CT
A	21/10/11	Redrafted from 1168-GILL-SLD.V1.1.dwg, 1168-TEMP-SLD.V1.1.dwg & 1167-TEMP-SLD.V1.1.dwg	SM	JW	CT

Contractor(s)

Unit 4 Apex Park, Wainwright Road, Worcester, Worcestershire, WR4 9FN. Tel: 01905 756000

Status: **As-Built**

Scale(s): NTS

ELR & Mileage: BAE2

Designed		Sign.		Date	
Drawn	Simon McElroy	Sign.		Date	21/10/2011
Checked	Joe Winter	Sign.		Date	21/10/2011
Approved	Chris Tappenden	Sign.		Date	21/10/2011
Project	FTN/GSM-R Project Stage 2 As-Built				
Drawing Title	Stowell Wood (1167) to Gillingham Tunnel (1168)				

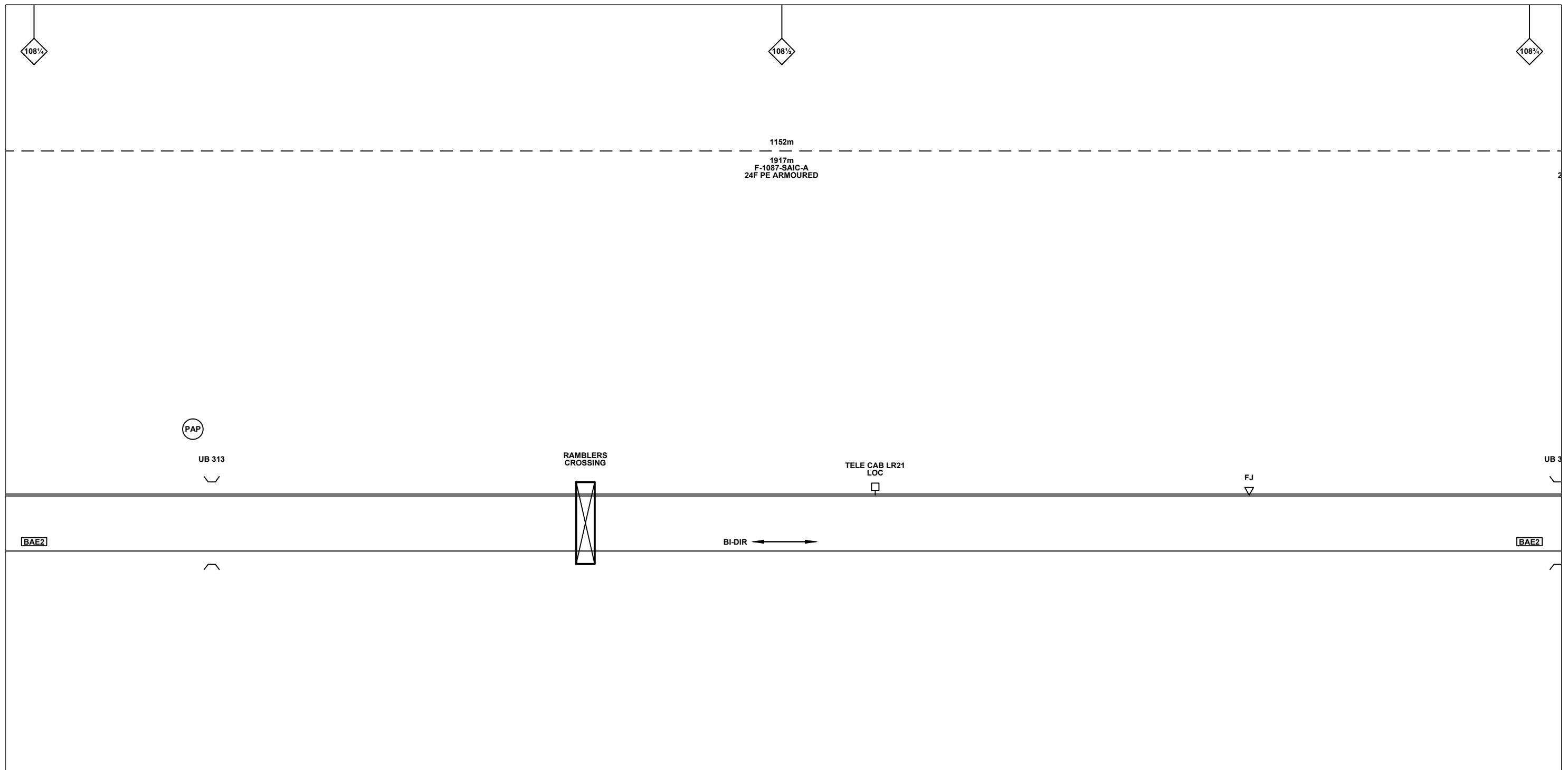
FTN/GSM-R Project
Tournament House
Paddington
London
W2 1HA

Alternative Reference: See Layout Tab 841 x 297 Sheet 1

Drawing Number: NTPO\SLD\1167\1168\001

Sheet: 2 of 13

Revision: 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	Manhole	Underbridge	Vehicle Access Point	Mile Post	HV Cable
KEY	Screening Conductor Joint with/without Earth	Status - as per Key Below	Mid Length Sheath Gap Fibre	FTN Access Node	Cabinet Routeworks	Manhole details: Cross-To be used, Filled-In use, Clear-Empty	Tunnel	Pedestrian Access Point	Platform	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	Sewer	Water
Proposed Copper Elements are shown in BLUE		Existing Fibre Cable							Cable Pull	Mast
Proposed Screening Elements are shown in MAGENTA		Existing Copper Cable								
All Recoveries are shown in GREEN		Existing Screen Cable								

Notes

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
B	11/01/13	Stage 2 As-Built	OW	KS	CT
A	21/10/11	Redrafted from 1168-GILL-SLD.V1.1.dwg, 1168-TEMP-SLD.V1.1.dwg & 1167-TEMP-SLD.V1.1.dwg	SM	JW	CT

Contractor(s)

McNicholas **MURPHY**

ndc consultants

Unit 4 Apex Park, Wainwright Road, Worcester, Worcestershire, WR4 9FN. Tel: 01905 756000

Status: **As-Built**

Scale(s): NTS

ELR & Mileage: BAE2

Designed		Sign.		Date	
Drawn	Simon McElroy	Sign.		Date	21/10/2011
Checked	Joe Winter	Sign.		Date	21/10/2011
Approved	Chris Tappenden	Sign.		Date	21/10/2011
Project	FTN/GSM-R Project Stage 2 As-Built				
Drawing Title	Stowell Wood (1167) to Gillingham Tunnel (1168)				

Network Rail

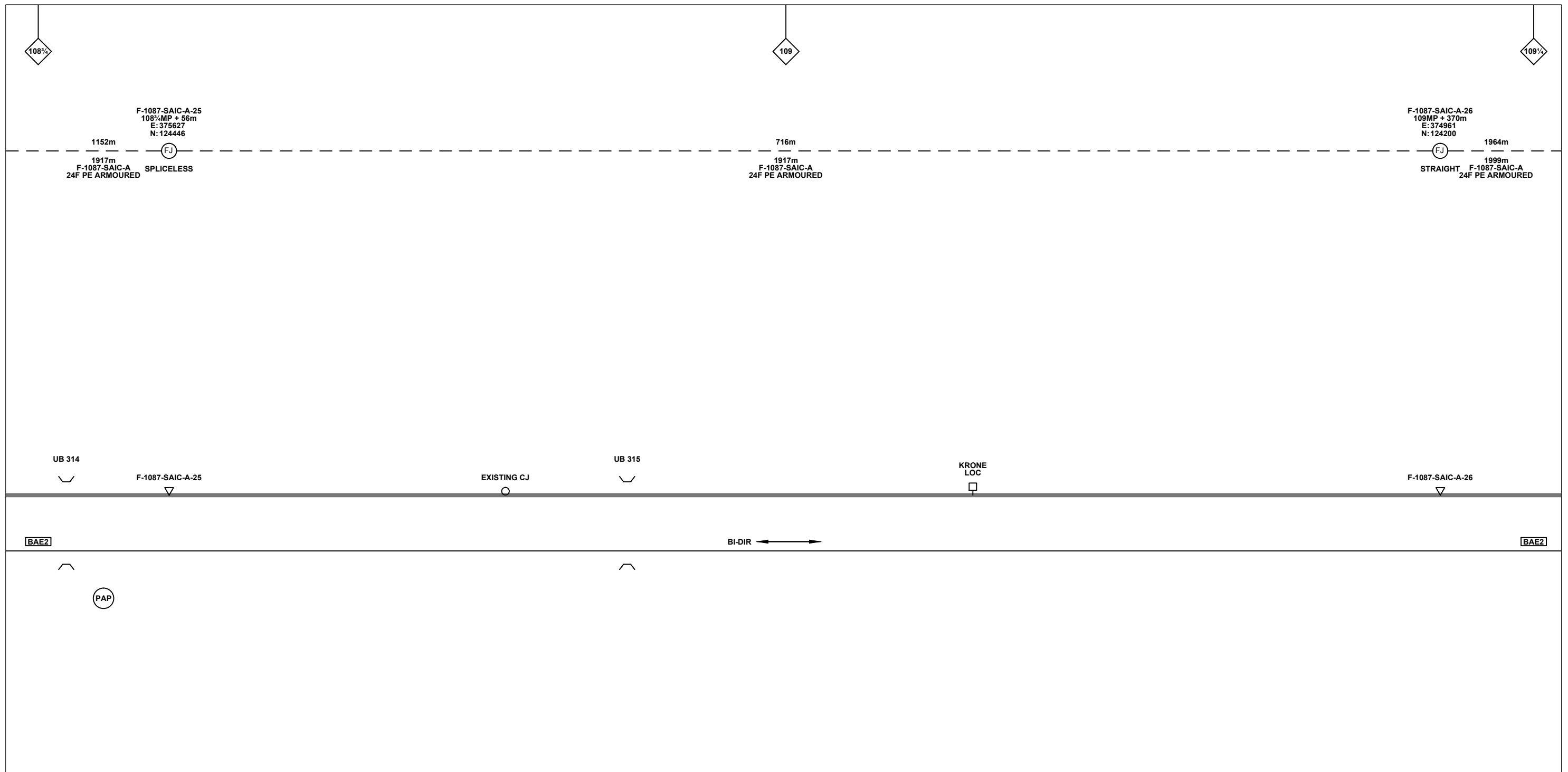
FTN/GSM-R Project
Tournament House
Paddington
London
W2 1HA

Alternative Reference: See Layout Tab 841 x 297 Sheet 2

Drawing Number: NTPO\SLD\1167\1168\001

Sheet: 3 of 13

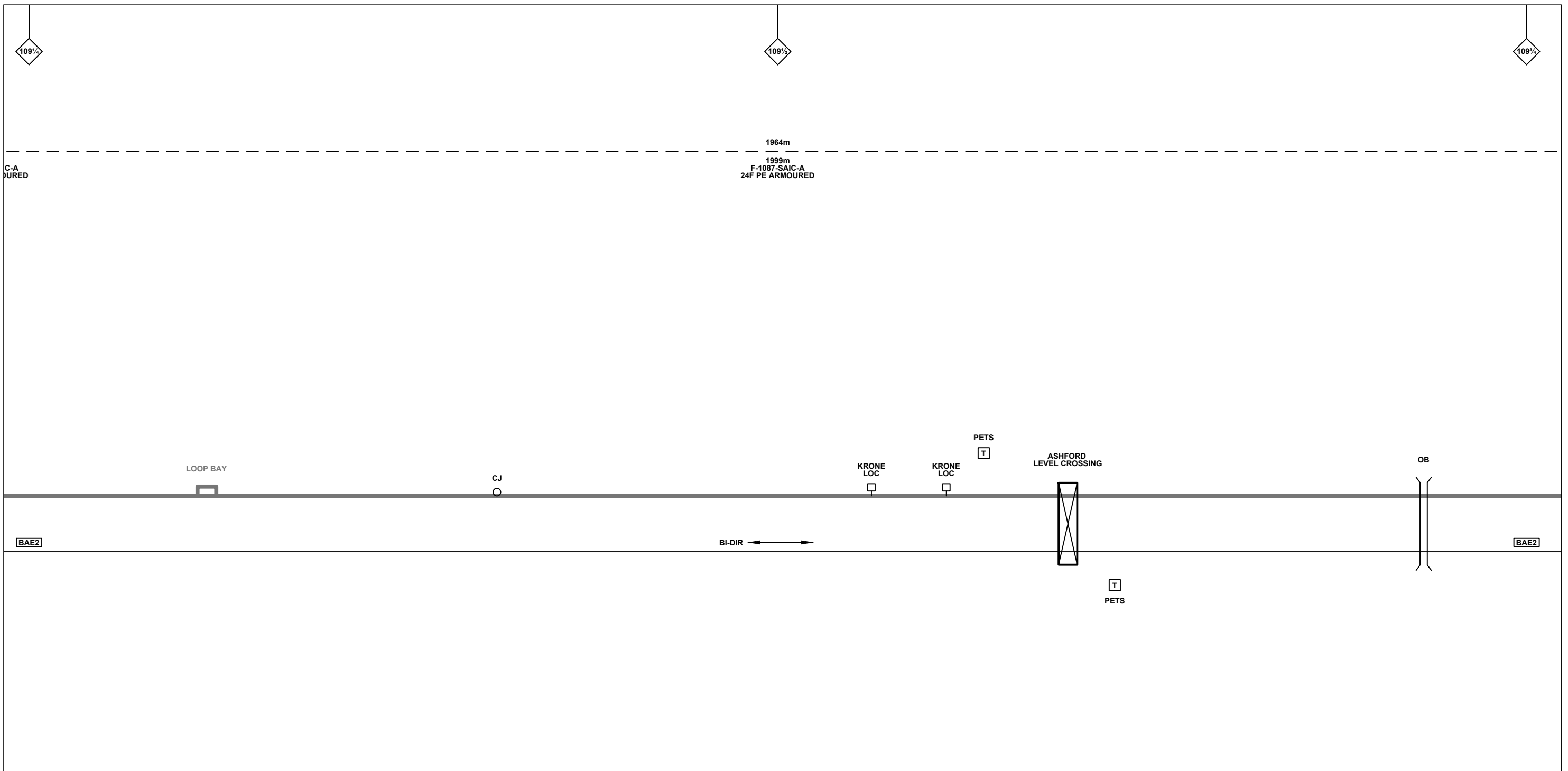
Revision: B



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	Manhole	Vehicle Access Point	Mile Post	Gantry	HV Cable
KEY	Screening Conductor Joint with/without Earth	2034m F-DIDC-RGAC-A	Mid Length Sheath Gap Fibre	FTN Access Node	Cabinet Routeworks	Tunnel	Pedestrian Access Point	Platform	Sewer	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	Water	Cable Pull
Proposed Copper Elements are shown in BLUE		--- Existing Fibre Cable								Mast
Proposed Screening Elements are shown in MAGENTA		--- Existing Copper Cable								
All Recoveries are shown in GREEN		--- Existing Screen Cable								

 <small>Unit 4 Apex Park, Wainwright Road, Worcester, Worcestershire, WR4 9FN. Tel: 01905 756000</small>			<table border="1"> <tr><td>Designed</td><td></td><td>Sign.</td><td></td><td>Date</td><td></td></tr> <tr><td>Drawn</td><td>Simon McElroy</td><td>Sign.</td><td></td><td>Date</td><td>21/10/2011</td></tr> <tr><td>Checked</td><td>Joe Winter</td><td>Sign.</td><td></td><td>Date</td><td>21/10/2011</td></tr> <tr><td>Approved</td><td>Chris Tappenden</td><td>Sign.</td><td></td><td>Date</td><td>21/10/2011</td></tr> </table>			Designed		Sign.		Date		Drawn	Simon McElroy	Sign.		Date	21/10/2011	Checked	Joe Winter	Sign.		Date	21/10/2011	Approved	Chris Tappenden	Sign.		Date	21/10/2011																											
Designed		Sign.		Date																																																				
Drawn	Simon McElroy	Sign.		Date	21/10/2011																																																			
Checked	Joe Winter	Sign.		Date	21/10/2011																																																			
Approved	Chris Tappenden	Sign.		Date	21/10/2011																																																			
<table border="1"> <tr><td>Contractor(s)</td><td colspan="5">McNicholas MURPHY</td></tr> <tr><td>Status</td><td colspan="5">As-Built</td></tr> <tr><td>Scale(s)</td><td colspan="5">NTS</td></tr> <tr><td>ELR & Mileage</td><td colspan="5">BAE2</td></tr> </table>			Contractor(s)	McNicholas MURPHY					Status	As-Built					Scale(s)	NTS					ELR & Mileage	BAE2					<table border="1"> <tr><td>Project</td><td colspan="5">FTN/GSM-R Project Stage 2 As-Built</td></tr> <tr><td>Drawing Title</td><td colspan="5">Stowell Wood (1167) to Gillingham Tunnel (1168)</td></tr> </table>			Project	FTN/GSM-R Project Stage 2 As-Built					Drawing Title	Stowell Wood (1167) to Gillingham Tunnel (1168)					<table border="1"> <tr><td>Alternative Reference</td><td colspan="2">See Layout Tab 841 x 297 Sheet 2</td><td>Sheet</td><td colspan="2">4 of 13</td></tr> <tr><td>Drawing Number</td><td colspan="2">NTPO\SLD\1167\1168\001</td><td>Revision</td><td colspan="2">B</td></tr> </table>			Alternative Reference	See Layout Tab 841 x 297 Sheet 2		Sheet	4 of 13		Drawing Number	NTPO\SLD\1167\1168\001		Revision	B	
Contractor(s)	McNicholas MURPHY																																																							
Status	As-Built																																																							
Scale(s)	NTS																																																							
ELR & Mileage	BAE2																																																							
Project	FTN/GSM-R Project Stage 2 As-Built																																																							
Drawing Title	Stowell Wood (1167) to Gillingham Tunnel (1168)																																																							
Alternative Reference	See Layout Tab 841 x 297 Sheet 2		Sheet	4 of 13																																																				
Drawing Number	NTPO\SLD\1167\1168\001		Revision	B																																																				
<table border="1"> <tr><td>Rev</td><td>Date</td><td>Description of Revisions</td><td>Drawn</td><td>Chkd</td><td>Appr</td></tr> <tr><td>B</td><td>11/01/13</td><td>Stage 2 As-Built</td><td>OW</td><td>KS</td><td>CT</td></tr> <tr><td>A</td><td>21/10/11</td><td>Redrafted from 1168-GILL-SLD.V1.1.dwg, 1168-TEMP-SLD.V1.1.dwg & 1167-TEMP-SLD.V1.1.dwg</td><td>SM</td><td>JW</td><td>CT</td></tr> </table>			Rev	Date	Description of Revisions	Drawn	Chkd	Appr	B	11/01/13	Stage 2 As-Built	OW	KS	CT	A	21/10/11	Redrafted from 1168-GILL-SLD.V1.1.dwg, 1168-TEMP-SLD.V1.1.dwg & 1167-TEMP-SLD.V1.1.dwg	SM	JW	CT																																				
Rev	Date	Description of Revisions	Drawn	Chkd	Appr																																																			
B	11/01/13	Stage 2 As-Built	OW	KS	CT																																																			
A	21/10/11	Redrafted from 1168-GILL-SLD.V1.1.dwg, 1168-TEMP-SLD.V1.1.dwg & 1167-TEMP-SLD.V1.1.dwg	SM	JW	CT																																																			



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	Manhole	Vehicle Access Point	Mile Post	Gantry	HV Cable
KEY	Screening Conductor Joint with/without Earth	Status - as per Key Below	Mid Length Sheath Gap Fibre	FTN Access Node	Cabinet Routeworks	Manhole details: Cross-To be used, Filled-In use, Clear-Empty	Pedestrian Access Point	Platform	Sewer	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	Tunnel	Earth Farm	Buffer Stop	Telecoms	Water
Proposed Copper Elements are shown in BLUE		Existing Fibre Cable						Telephone	Copper Blue Fibre Red Screen Green	Mast
Proposed Screening Elements are shown in MAGENTA		Existing Copper Cable								
All Recoveries are shown in GREEN		Existing Screen Cable								

Notes

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
B	11/01/13	Stage 2 As-Built	OW	KS	CT
A	21/10/11	Redrafted from 1168-GILL-SLD.V1.1.dwg, 1168-TEMP-SLD.V1.1.dwg & 1167-TEMP-SLD.V1.1.dwg	SM	JW	CT

Contractor(s)

Unit 4 Apex Park, Wainwright Road, Worcester, Worcestershire, WR4 9FN. Tel: 01905 756000

Status: **As-Built**

Scale(s): NTS

ELR & Mileage: BAE2

Designed		Sign.		Date	
Drawn	Simon McElroy	Sign.		Date	21/10/2011
Checked	Joe Winter	Sign.		Date	21/10/2011
Approved	Chris Tappenden	Sign.		Date	21/10/2011
Project	FTN/GSM-R Project Stage 2 As-Built				
Drawing Title	Stowell Wood (1167) to Gillingham Tunnel (1168)				

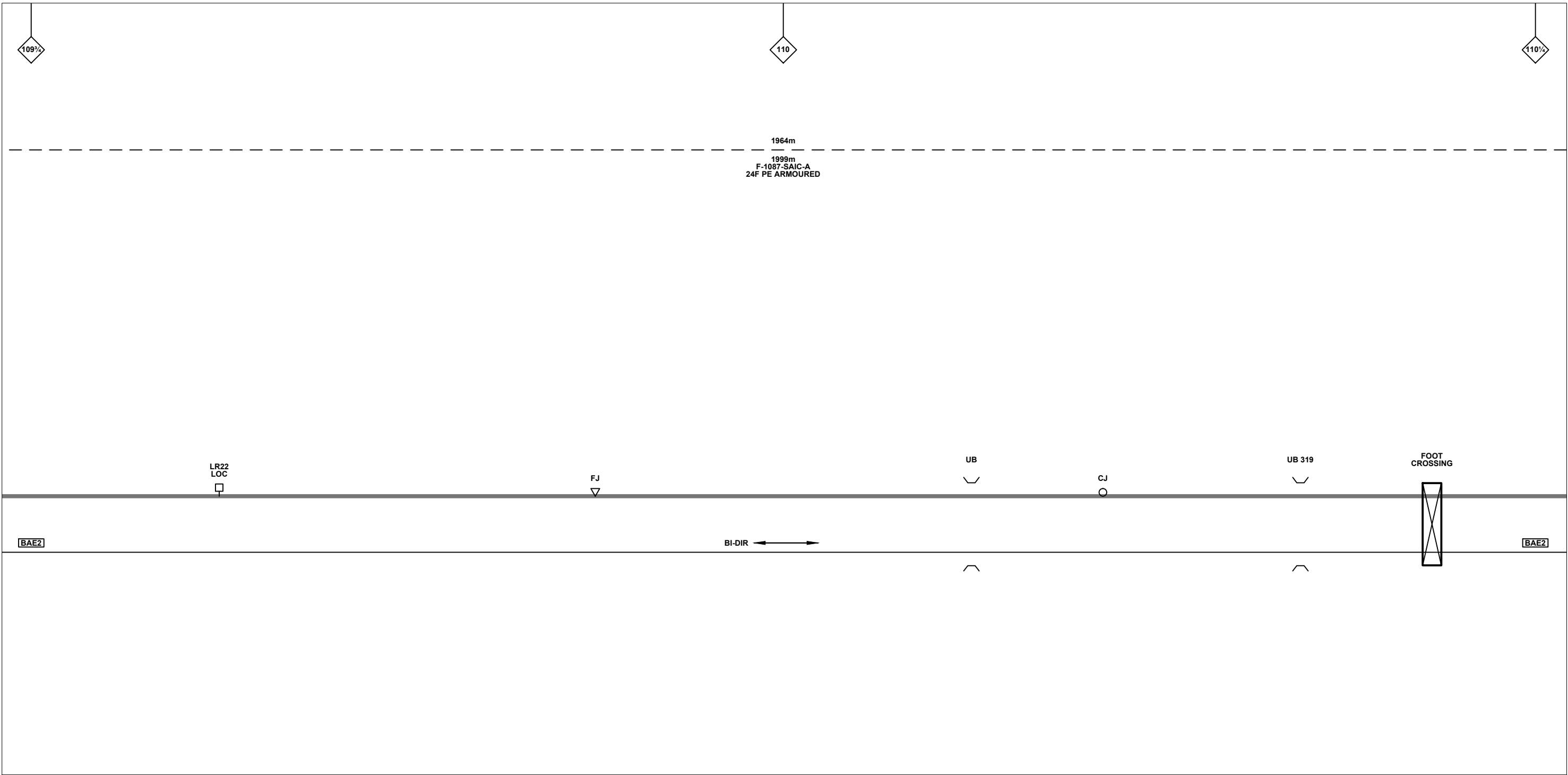
FTN/GSM-R Project
Tournament House
Paddington
London
W2 1HA

Alternative Reference: See Layout Tab 841 x 297 Sheet 3

Drawing Number: NTPO\SLD\1167\1168\001

Sheet: 5 of 13

Revision: 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	Manhole	Vehicle Access Point	Mile Post	HV Cable	LV Cable
KEY	Screening Conductor Joint with/without Earth	Status - as per Key Below	Mid Length Sheath Gap Fibre	FTN Access Node	Cabinet Routeworks	Manhole details: Cross-To be used, Filled-In use, Clear-Empty	Pedestrian Access Point	Platform	Sewer	Telecoms
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	Tunnel	Earth Farm	Buffer Stop	Water	Mast
Proposed Copper Elements are shown in BLUE		Existing Fibre Cable								
Proposed Screening Elements are shown in MAGENTA		Existing Copper Cable								
All Recoveries are shown in GREEN		Existing Screen Cable								

Notes

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
B	11/01/13	Stage 2 As-Built	OW	KS	CT
A	21/10/11	Redrafted from 1168-GILL-SLD.V1.1.dwg, 1168-TEMP-SLD.V1.1.dwg & 1167-TEMP-SLD.V1.1.dwg	SM	JW	CT

Contractor(s)

Unit 4 Apex Park, Wainwright Road, Worcester, Worcestershire, WR4 9FN. Tel: 01905 756000

Status: **As-Built**

Scale(s): NTS

ELR & Mileage: BAE2

Designed		Sign.		Date	
Drawn	Simon McElroy	Sign.		Date	21/10/2011
Checked	Joe Winter	Sign.		Date	21/10/2011
Approved	Chris Tappenden	Sign.		Date	21/10/2011
Project	FTN/GSM-R Project Stage 2 As-Built				
Drawing Title	Stowell Wood (1167) to Gillingham Tunnel (1168)				

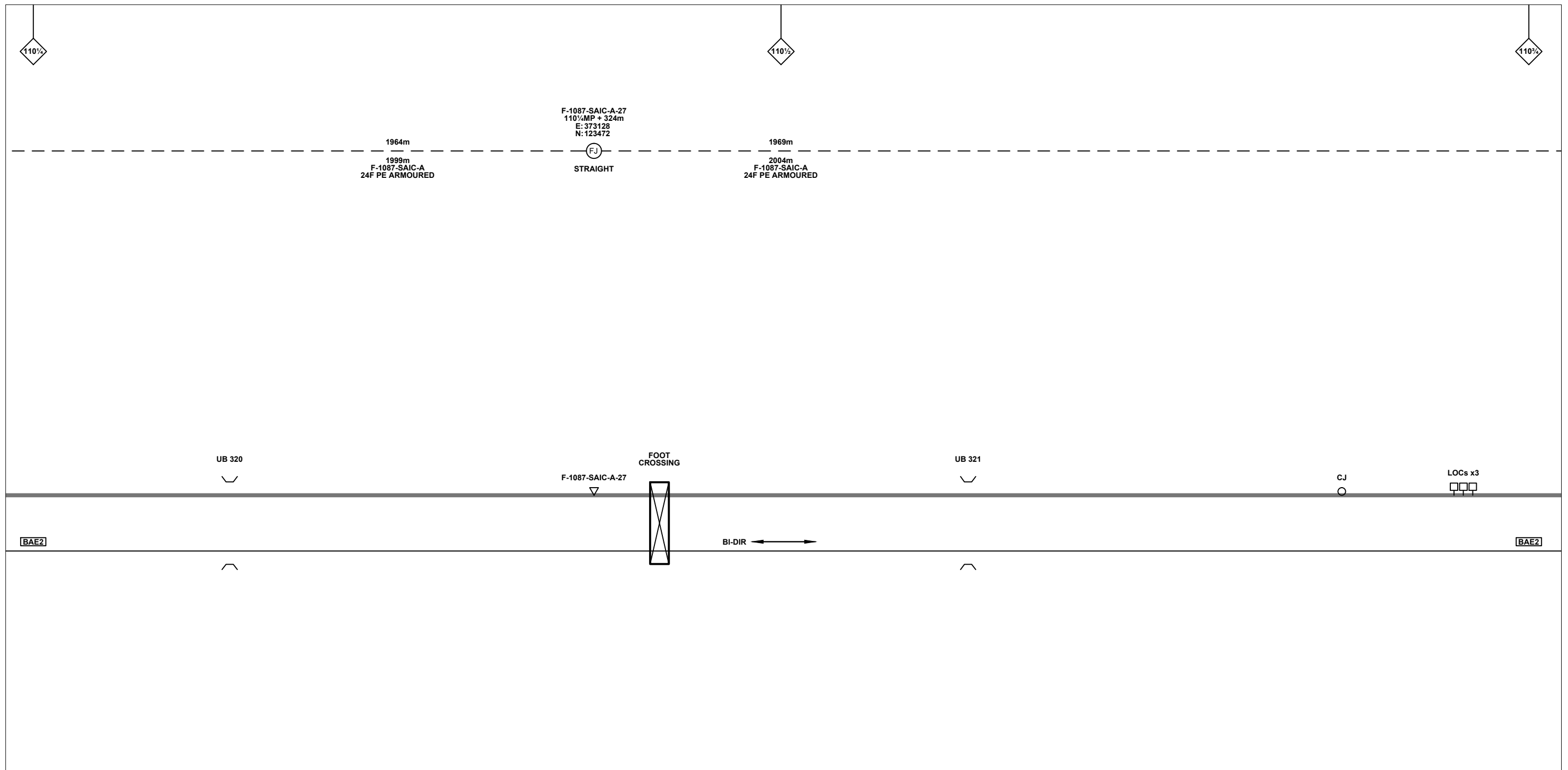
FTN/GSM-R Project
Tournament House
Paddington
London
W2 1HA

Alternative Reference: See Layout Tab 841 x 297 Sheet 3

Drawing Number: NTPO\SLD\1167\1168\001

Sheet: 6 of 13

Revision: 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	Manhole	Vehicle Access Point	Mile Post	Gantry	HV Cable
KEY	Screening Conductor Joint with/without Earth	Status - as per Key Below	Mid Length Sheath Gap Fibre	FTN Access Node	Cabinet Routeworks	Manhole details: Cross-To be used, Filled-In use, Clear-Empty	Pedestrian Access Point	Platform	Sewer	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	Tunnel	Earth Farm	Telephone	Telecoms	Water
Proposed Copper Elements are shown in BLUE		Existing Fibre Cable					Buffer Stop		Copper Pull	Mast
Proposed Screening Elements are shown in MAGENTA		Existing Copper Cable								
All Recoveries are shown in GREEN		Existing Screen Cable								

Notes

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
B	11/01/13	Stage 2 As-Built	OW	KS	CT
A	21/10/11	Redrafted from 1168-GILL-SLD.V1.1.dwg, 1168-TEMP-SLD.V1.1.dwg & 1167-TEMP-SLD.V1.1.dwg	SM	JW	CT

Contractor(s)

Unit 4 Apex Park, Wainwright Road, Worcester, Worcestershire, WR4 9FN. Tel: 01905 756000

Status: **As-Built**

Scale(s): NTS

ELR & Mileage: BAE2

Designed		Sign.		Date	
Drawn	Simon McElroy	Sign.		Date	21/10/2011
Checked	Joe Winter	Sign.		Date	21/10/2011
Approved	Chris Tappenden	Sign.		Date	21/10/2011
Project	FTN/GSM-R Project Stage 2 As-Built				
Drawing Title	Stowell Wood (1167) to Gillingham Tunnel (1168)				

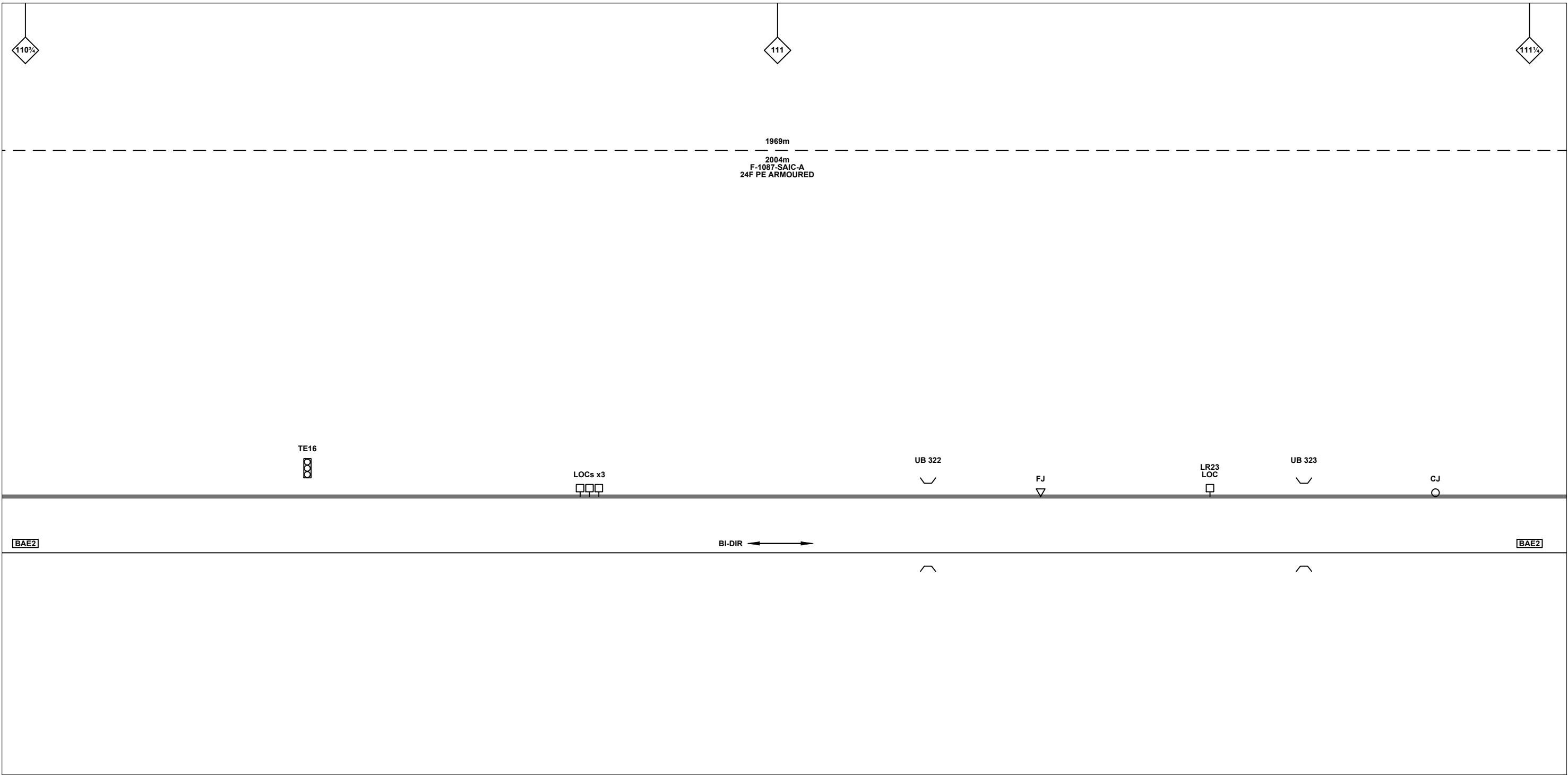
FTN/GSM-R Project
Tournament House
Paddington
London
W2 1HA

Alternative Reference: See Layout Tab 841 x 297 Sheet 4

Sheet: 7 of 13

Drawing Number: NTPO\SLD\1167\1168\001

Revision: 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	Manhole	Vehicle Access Point	Mile Post	HV Cable	LV Cable
KEY 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	Screening Conductor Joint with/without Earth	Status - as per Key Below	Mid Length Sheath Gap Fibre	FTN Access Node	Cabinet Routeworks	Manhole details: Cross-To be used, Filled-In use, Clear-Empty	Pedestrian Access Point	Platform	Sewer	Telecoms
All Existing Elements are shown in BLACK	Existing Fibre Cable	Existing Copper Cable	Sheath Gap Copper	FTN Access Node with GSM-R Colocated	Fibre Joint Routeworks	Tunnel	Earth Farm	Buffer Stop	Water	Mast

Notes

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
B	11/01/13	Stage 2 As-Built	OW	KS	CT
A	21/10/11	Redrafted from 1168-GILL-SLD.V1.1.dwg, 1168-TEMP-SLD.V1.1.dwg & 1167-TEMP-SLD.V1.1.dwg	SM	JW	CT

Contractor(s)

Unit 4 Apex Park, Wainwright Road, Worcester, Worcestershire, WR4 9FN. Tel: 01905 756000

Status: **As-Built**

Scale(s): NTS

ELR & Mileage: BAE2

Designed		Sign.		Date	
Drawn	Simon McElroy	Sign.		Date	21/10/2011
Checked	Joe Winter	Sign.		Date	21/10/2011
Approved	Chris Tappenden	Sign.		Date	21/10/2011
Project	FTN/GSM-R Project Stage 2 As-Built				
Drawing Title	Stowell Wood (1167) to Gillingham Tunnel (1168)				

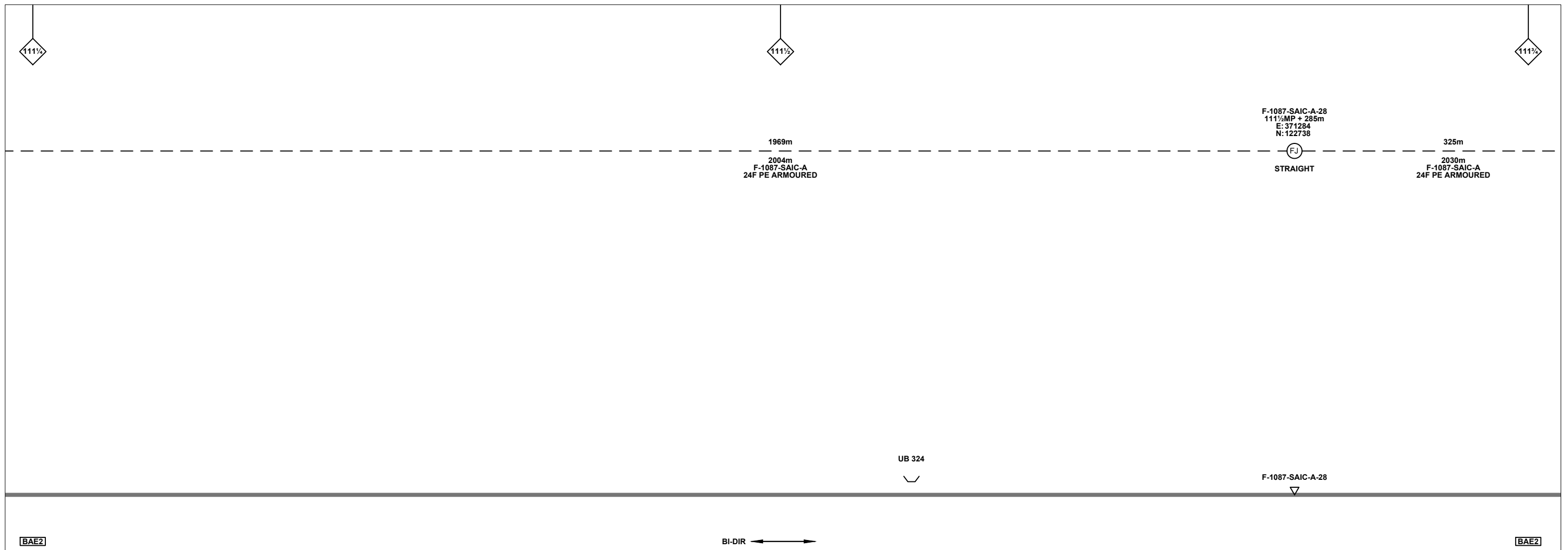
FTN/GSM-R Project
Tournament House
Paddington
London
W2 1HA

Alternative Reference: See Layout Tab 841 x 297 Sheet 4

Sheet: 8 of 13

Drawing Number: NTPO\SLD\1167\1168\001

Revision: 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	Manhole	Vehicle Access Point	Mile Post	HV Cable	LV Cable
KEY 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	Screening Conductor Joint with/without Earth	Status - as per Key Below	Mid Length Sheath Gap Fibre	FTN Access Node	Cabinet Routeworks	Manhole details: Cross-To be used, Filled-In use, Clear-Empty	Pedestrian Access Point	Platform	Sewer	Telecoms
All Existing Elements are shown in BLACK	Existing Fibre Cable	Existing Copper Cable	Sheath Gap Copper	FTN Access Node with GSM-R Colocated	Fibre Joint Routeworks	Tunnel	Earth Farm	Buffer Stop	Water	Mast

Notes

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
B	11/01/13	Stage 2 As-Built	OW	KS	CT
A	21/10/11	Redrafted from 1168-GILL-SLD.V1.1.dwg, 1168-TEMP-SLD.V1.1.dwg & 1167-TEMP-SLD.V1.1.dwg	SM	JW	CT

Contractor(s)

Unit 4 Apex Park, Wainwright Road, Worcester, Worcestershire, WR4 9FN. Tel: 01905 756000

Status: **As-Built**

Scale(s): NTS

ELR & Mileage: BAE2

Designed		Sign.		Date	
Drawn	Simon McElroy	Sign.		Date	21/10/2011
Checked	Joe Winter	Sign.		Date	21/10/2011
Approved	Chris Tappenden	Sign.		Date	21/10/2011
Project	FTN/GSM-R Project Stage 2 As-Built				
Drawing Title	Stowell Wood (1167) to Gillingham Tunnel (1168)				

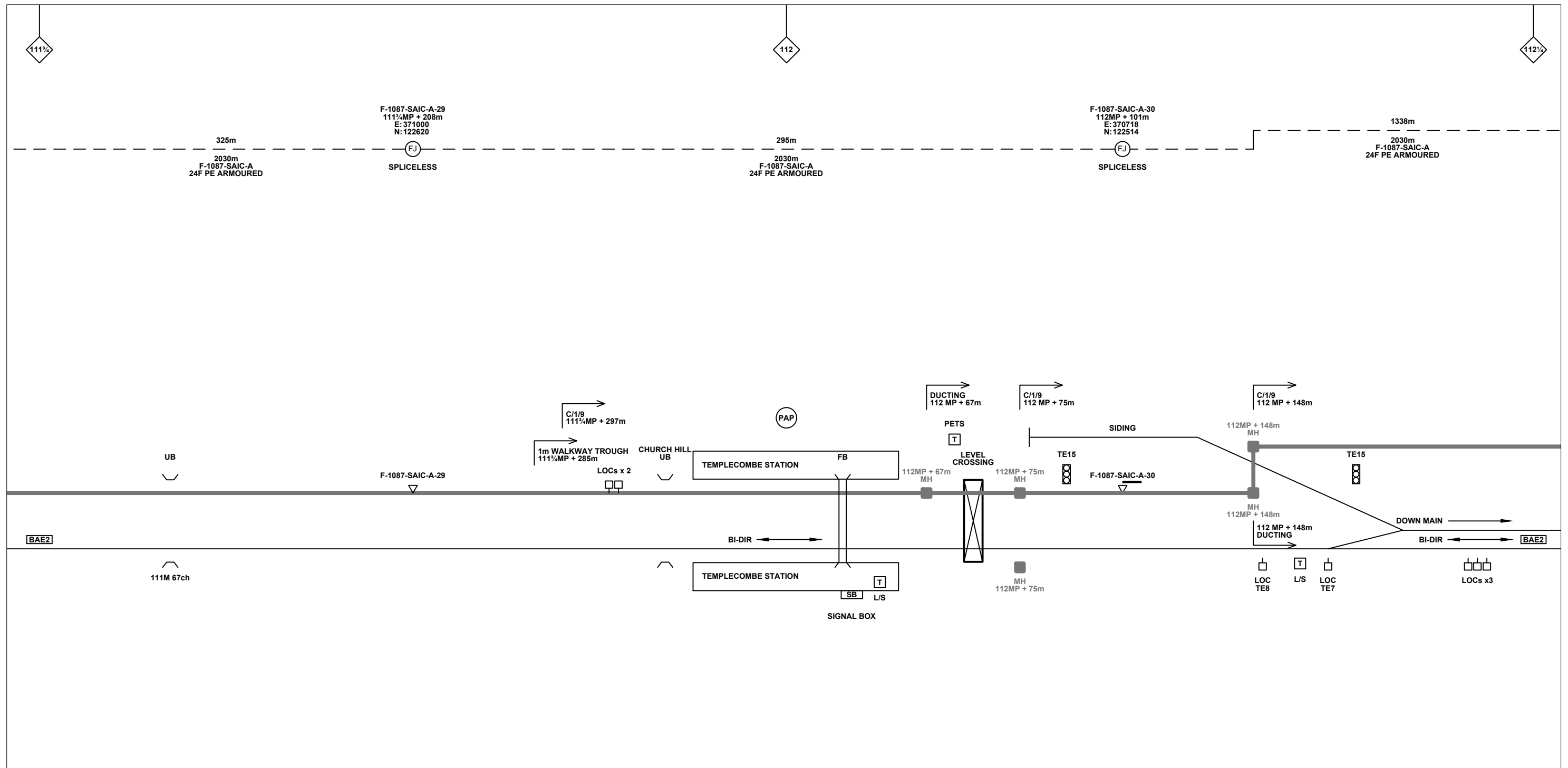
FTN/GSM-R Project
Tournament House
Paddington
London
W2 1HA

Alternative Reference: See Layout Tab 841 x 297 Sheet 5

Drawing Number: NTPO\SLD\1167\1168\001

Sheet: 9 of 13

Revision: 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	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
Proposed Fibre & Civils Elements are shown in RED		All Existing Elements are shown in BLACK	Mid Length Sheath Gap Fibre	FTN Access Node with GSM-R Colocated	Fibre Joint Routeworks	Tunnel	Earth Farm	Buffer Stop	Telephone	Water
Proposed Copper Elements are shown in BLUE		Existing Fibre Cable	Sheath Gap Copper							Copper Blue
Proposed Screening Elements are shown in MAGENTA		Existing Copper Cable								Fibre Red
All Recoveries are shown in GREEN		Existing Screen Cable								Screen Green
										Mast

Notes

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
B	11/01/13	Stage 2 As-Built	OW	KS	CT
A	21/10/11	Redrafted from 1168-GILL-SLD.V1.1.dwg, 1168-TEMP-SLD.V1.1.dwg & 1167-TEMP-SLD.V1.1.dwg	SM	JW	CT

Contractor(s)

Unit 4 Apex Park, Wainwright Road, Worcester, Worcestershire, WR4 9FN. Tel: 01905 756000

Status: **As-Built**

Scale(s): NTS

ELR & Mileage: BAE2

Designed	Sign.	Date
Drawn	Sign. <i>Simon McElroy</i>	Date 21/10/2011
Checked	Sign. <i>Joe Winter</i>	Date 21/10/2011
Approved	Sign. <i>Chris Tappenden</i>	Date 21/10/2011
Project: FTN/GSM-R Project Stage 2 As-Built		
Drawing Title: Stowell Wood (1167) to Gillingham Tunnel (1168)		

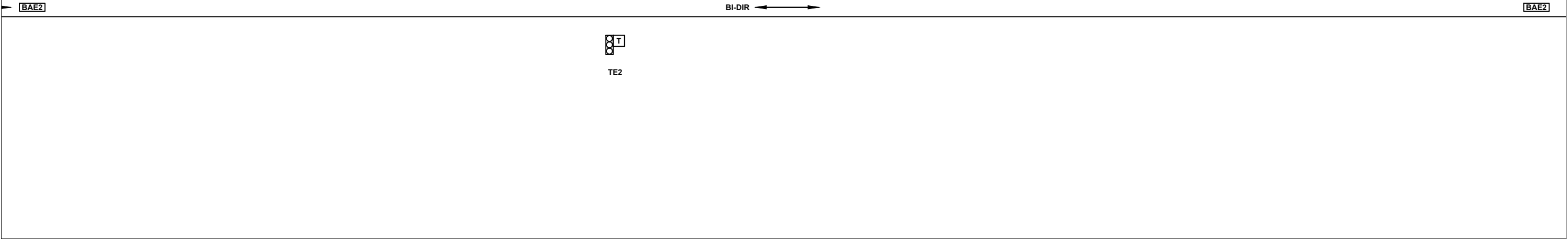
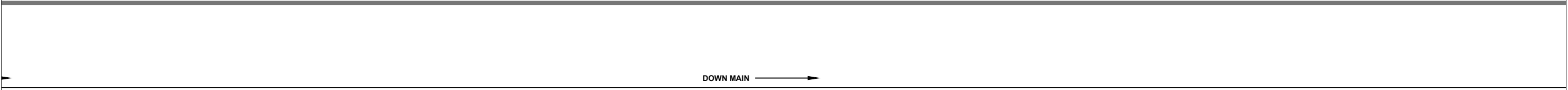
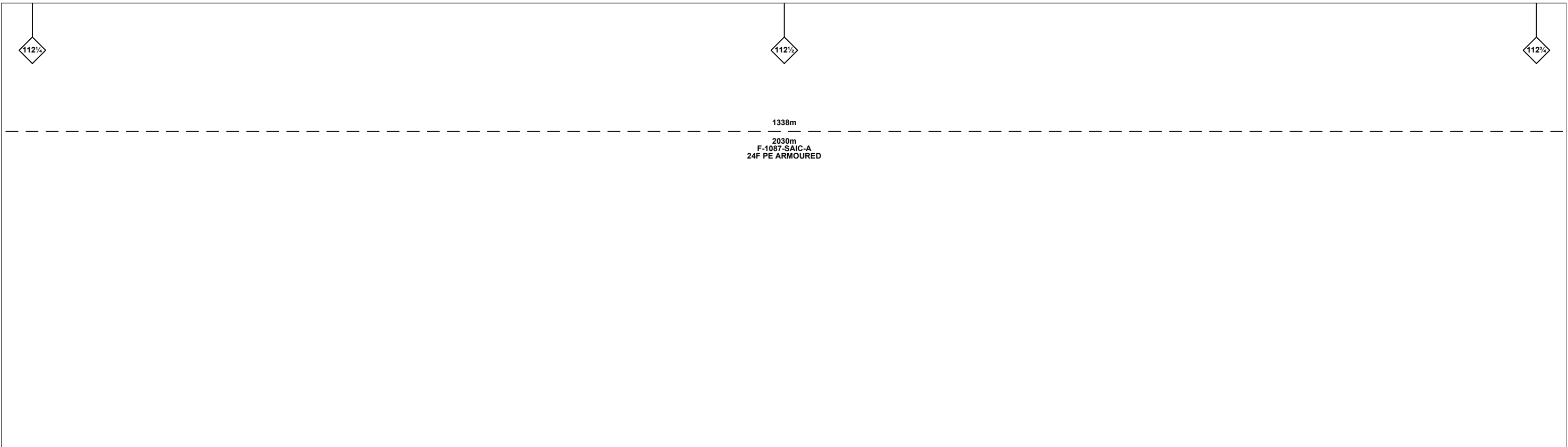
FTN/GSM-R Project
Tournament House
Paddington
London
W2 1HA

Alternative Reference: See Layout Tab 841 x 297 Sheet 5

Drawing Number: NTPO\SLD\1167\1168\001

Sheet: 10 of 13

Revision: 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	Manhole	Vehicle Access Point	Mile Post	HV Cable	LV Cable
KEY	Screening Conductor Joint with/without Earth	Status - as per Key Below	Mid Length Sheath Gap Fibre	FTN Access Node	Cabinet Routeworks	Manhole details: Cross-To be used, Filled-In use, Clear-Empty	Pedestrian Access Point	Platform	Sewer	Telecoms
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	Tunnel	Earth Farm	Buffer Stop	Water	Mast
Proposed Copper Elements are shown in BLUE		Existing Fibre Cable								
Proposed Screening Elements are shown in MAGENTA		Existing Copper Cable								
All Recoveries are shown in GREEN		Existing Screen Cable								

Notes

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
B	11/01/13	Stage 2 As-Built	OW	KS	CT
A	21/10/11	Redrafted from 1168-GILL-SLD.V1.1.dwg, 1168-TEMP-SLD.V1.1.dwg & 1167-TEMP-SLD.V1.1.dwg	SM	JW	CT

Contractor(s)

Unit 4 Apex Park, Wainwright Road, Worcester, Worcestershire, WR4 9FN. Tel: 01905 756000

Status: **As-Built**

Scale(s): NTS

ELR & Mileage: BAE2

Designed		Sign.		Date	
Drawn	Simon McElroy	Sign.		Date	21/10/2011
Checked	Joe Winter	Sign.		Date	21/10/2011
Approved	Chris Tappenden	Sign.		Date	21/10/2011
Project	FTN/GSM-R Project Stage 2 As-Built				
Drawing Title	Stowell Wood (1167) to Gillingham Tunnel (1168)				

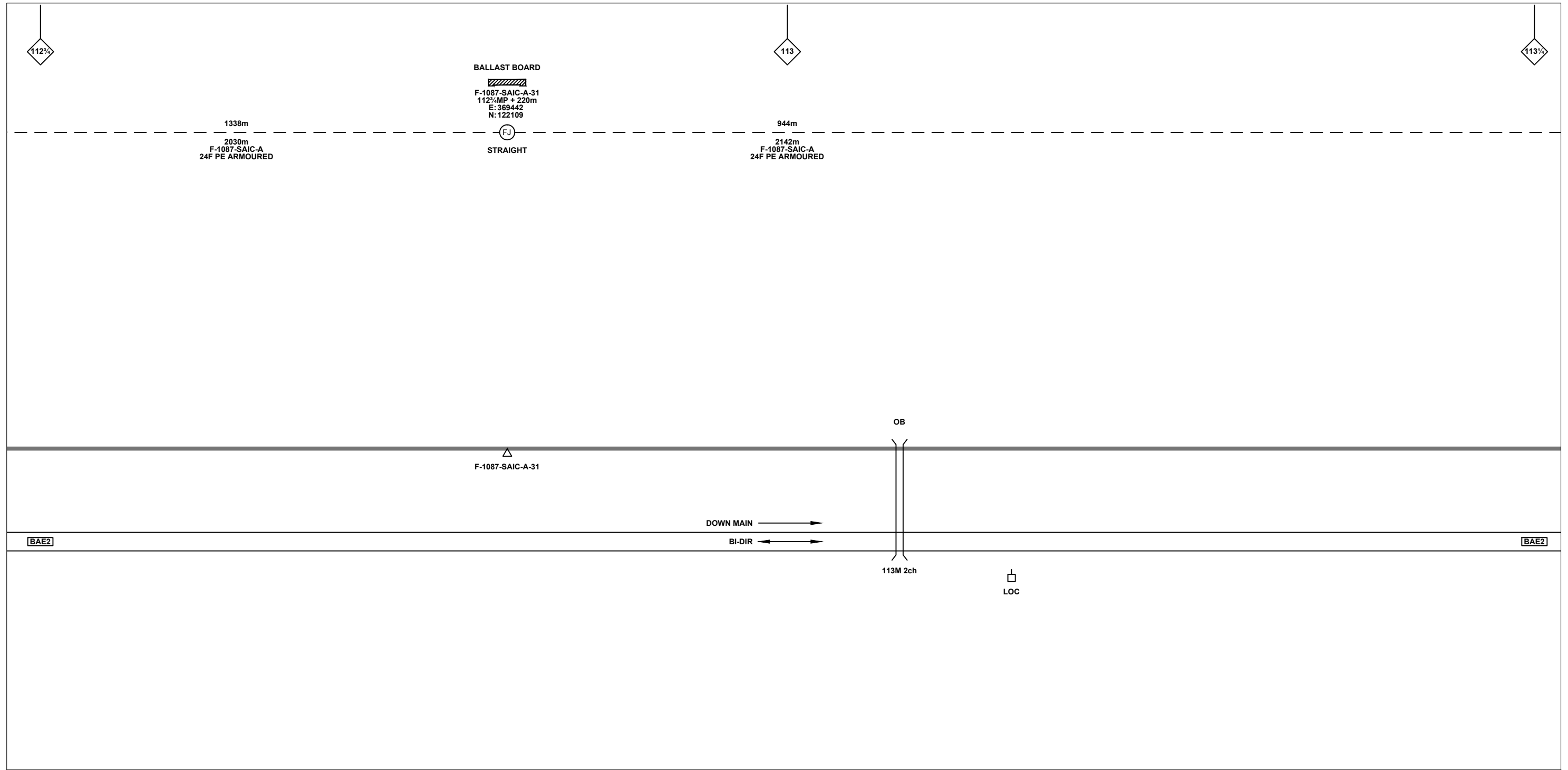
FTN/GSM-R Project
Tournament House
Paddington
London
W2 1HA

Alternative Reference: See Layout Tab 841 x 297 Sheet 6

Drawing Number: NTPO\SLD\1167\1168\001

Sheet: 11 of 13

Revision: 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	Manhole	Vehicle Access Point	Mile Post	HV Cable	LV Cable
KEY	Screening Conductor Joint with/without Earth	Status - as per Key Below	Mid Length Sheath Gap Fibre	FTN Access Node	Cabinet Routeworks	Manhole details: Cross-To be used, Filled-In use, Clear-Empty	Pedestrian Access Point	Platform	Sewer	Telecoms
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	Tunnel	Earth Farm	Buffer Stop	Water	Mast
Proposed Copper Elements are shown in BLUE		Existing Fibre Cable								
Proposed Screening Elements are shown in MAGENTA		Existing Copper Cable								
All Recoveries are shown in GREEN		Existing Screen Cable								

Notes

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
B	11/01/13	Stage 2 As-Built	OW	KS	CT
A	21/10/11	Redrafted from 1168-GILL-SLD.V1.1.dwg, 1168-TEMP-SLD.V1.1.dwg & 1167-TEMP-SLD.V1.1.dwg	SM	JW	CT

Contractor(s)

Unit 4 Apex Park, Wainwright Road, Worcester, Worcestershire, WR4 9FN. Tel: 01905 756000

Status: **As-Built**

Scale(s): NTS

ELR & Mileage: BAE2

Designed		Sign.		Date	
Drawn	Simon McElroy	Sign.		Date	21/10/2011
Checked	Joe Winter	Sign.		Date	21/10/2011
Approved	Chris Tappenden	Sign.		Date	21/10/2011
Project	FTN/GSM-R Project Stage 2 As-Built				
Drawing Title	Stowell Wood (1167) to Gillingham Tunnel (1168)				

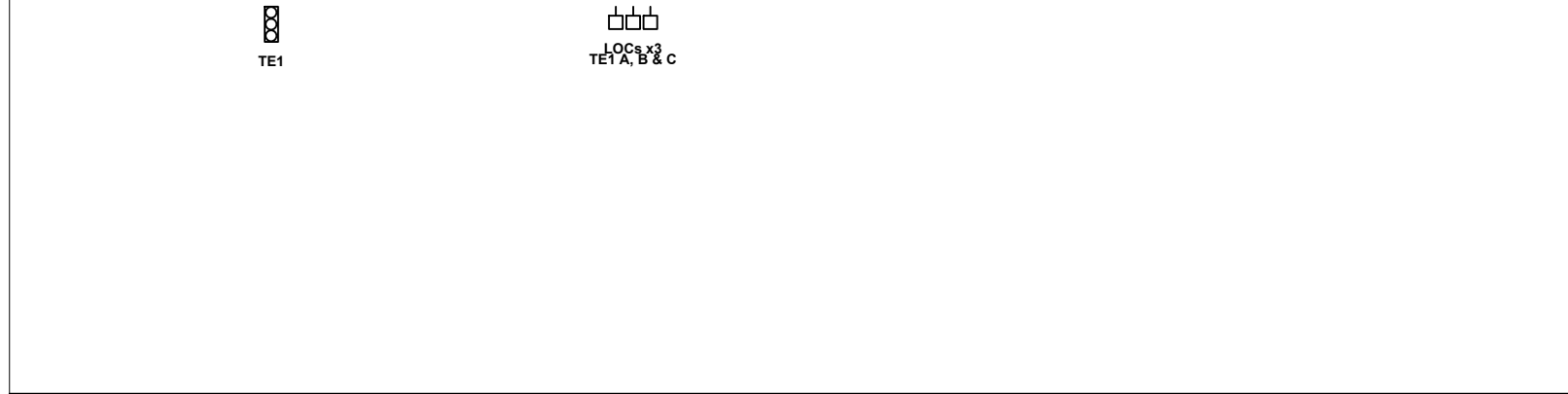
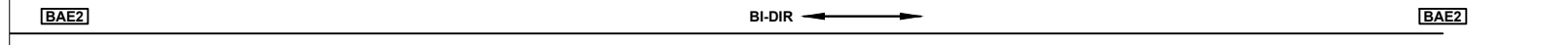
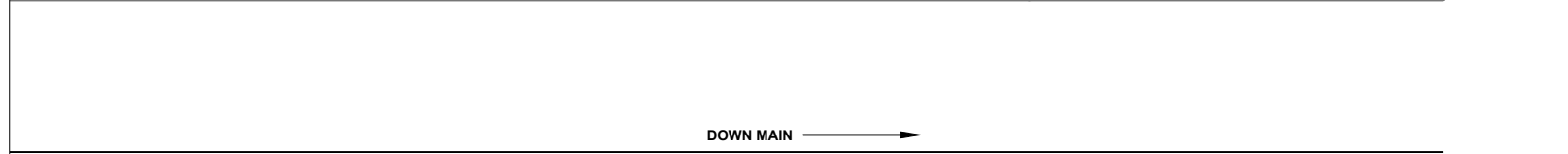
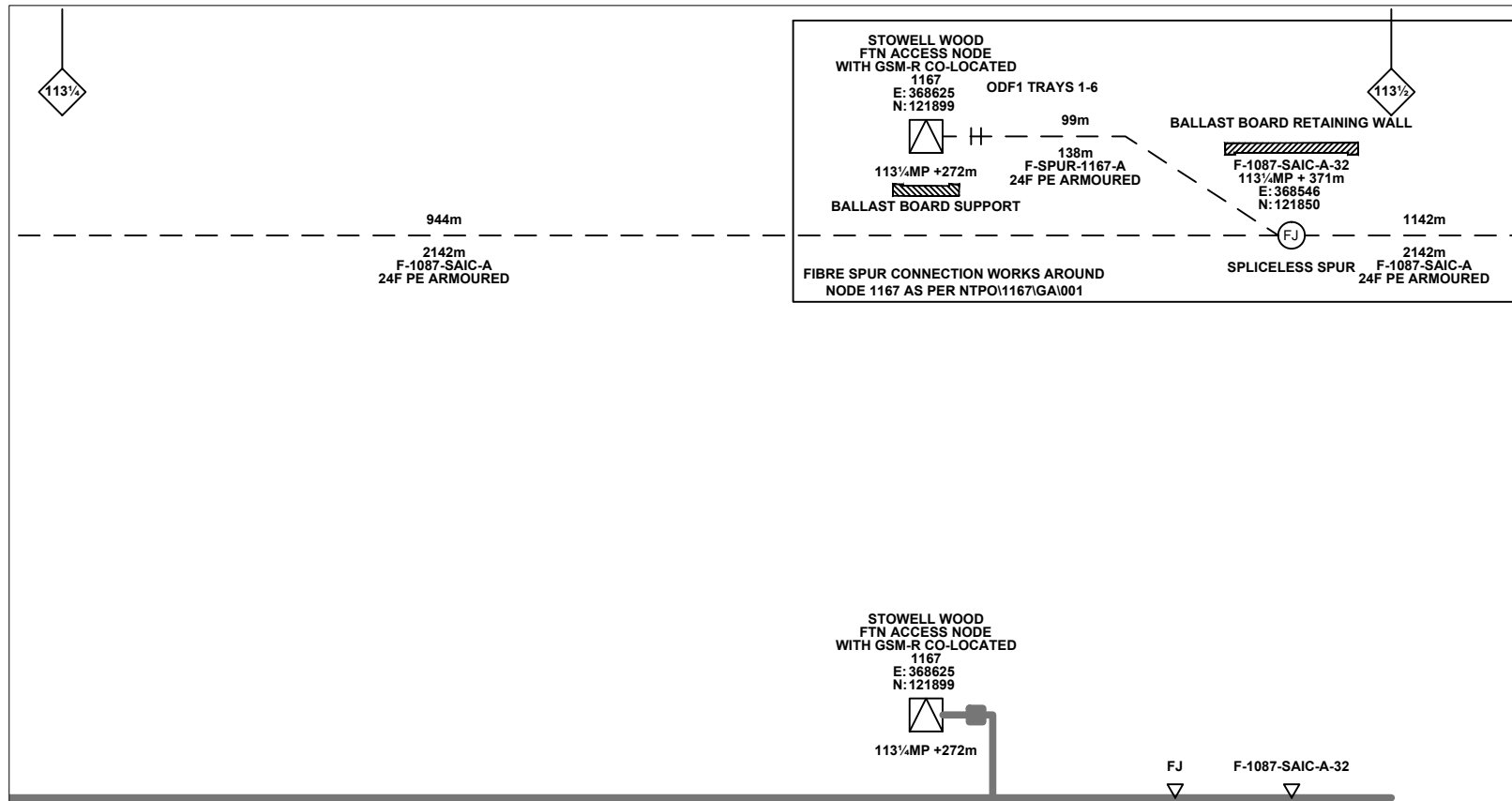
FTN/GSM-R Project
Tournament House
Paddington
London
W2 1HA

Alternative Reference: See Layout Tab 841 x 297 Sheet 6

Drawing Number: NTPO\SLD\1167\1168\001

Sheet: 12 of 13

Revision: 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 — 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	VAP Vehicle Access Point	Mile Post	HV — HV — HV Cable	LV — LV — LV Cable
KEY 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	Screening Conductor Joint with/without Earth	Manhole	Mid Length Sheath Gap Fibre	FTN Access Node	Cabinet Routeworks	Manhole details: Cross-To be used, Filled-In use, Clear-Empty	PAP Pedestrian Access Point	Platform	SEW — SEW — Sewer	TEL — TEL — Telecoms
All Existing Elements are shown in BLACK	Existing Fibre Cable	Existing Copper Cable	Sheath Gap Copper	FTN Access Node with GSM-R Colocated	Fibre Joint Routeworks	Tunnel	Earth Farm	Buffer Stop	v — v — Water	Mast

Notes

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
B	11/01/13	Stage 2 As-Built	OW	KS	CT
A	21/10/11	Redrafted from 1168-GILL-SLD.V1.1.dwg, 1168-TEMP-SLD.V1.1.dwg & 1167-TEMP-SLD.V1.1.dwg	SM	JW	CT

Contractor(s)

Unit 4 Apex Park, Wainwright Road, Worcester, Worcestershire, WR4 9FN. Tel: 01905 756000

Status: **As-Built**

Scale(s): NTS

ELR & Mileage: BAE2

Designed	Sign.	Date
Drawn: Simon McElroy	Sign. <i>[Signature]</i>	Date: 21/10/2011
Checked: Joe Winter	Sign. <i>[Signature]</i>	Date: 21/10/2011
Approved: Chris Tappenden	Sign. <i>[Signature]</i>	Date: 21/10/2011
Project: FTN/GSM-R Project Stage 2 As-Built		
Drawing Title: Stowell Wood (1167) to Gillingham Tunnel (1168)		

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

Alternative Reference: See Layout Tab 841 x 297 Sheet 7

Drawing Number: NTPO\SLD\1167\1168\001

Sheet: 13 of 13

Revision: B