

The Fibre Cable Between 2400 and 6142 is Live and Carrying Operational Circuits

Bill of Quantities			
7.359	Renumber Fibre Joint	each	3
7.373	Rename Cable (Fibre)	each	2

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
Screening Conductor Joint with/without Earth	Manhole	Status - as per Key Below	Mid Length Sheath Gap Fibre	FTN Access Node	Cabinet Routeworks	FTN Access Node with GSM-R Colocated	Platform	Pedestrian Access Point	Telephone	Sewer	LV Cable
KEY	Existing Fibre Cable	Existing Copper Cable	Sheath Gap Copper	Fibre Joint Routeworks	Earth Farm	Buffer Stop	Tunnel	Copper Blue Fibre Red Screen Green	AC Stanchion	Water	

Notes

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
A	30/11/10	Redrafted from NTPOSLD24092410001DA.dwg & NTPOSLD24092410001DA.dwg	AB	JW	CT

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

Status: **Design**

Scale(s): ELR & Mileage
AAV

Designed	NDC Consultants	Sign.		Date	30/11/10
Drawn	Adam Bourne	Sign.		Date	30/11/10
Checked	Joe Winter	Sign.		Date	30/11/10
Approved	Chris Tappenden	Sign.		Date	30/11/10

FTN / GSM-R Project Stage 2 Design

Drawing Title: **Swinley Forest East (2409) to Bagshot Tunnel (2410)**

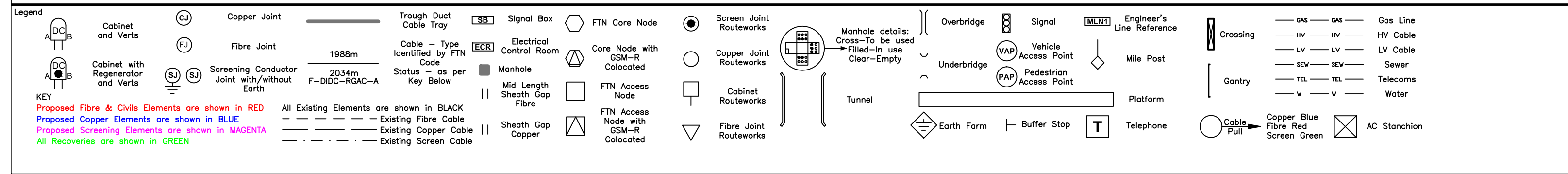
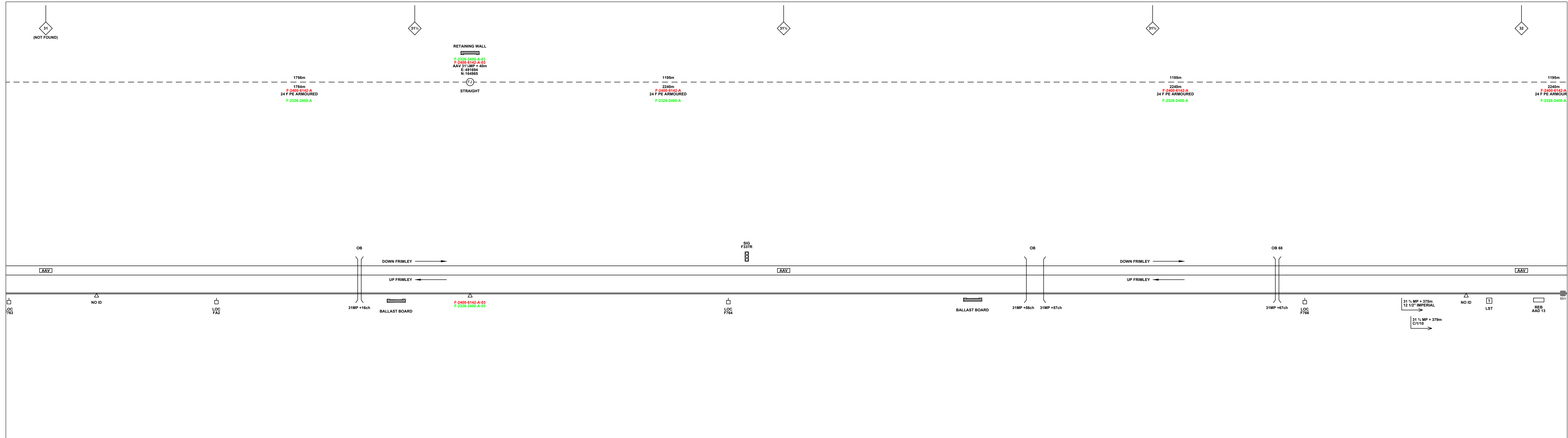
Network Rail

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Alternative Reference: See Layout Tab A3 Sheets 1 and 2

Drawing Number: NTPOSLD\2409\2410\001

Sheet 1 of 4
Revision A



Notes

Contractor(s)

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Status: **Design**

Scale(s): NTS

ELR & Mileage: AAV

Designed	NDC Consultants	Sign.		Date	30/11/10
Drawn	Adam Bourne	Sign.		Date	30/11/10
Checked	Joe Winter	Sign.		Date	30/11/10
Approved	Chris Tappenden	Sign.		Date	30/11/10

Project: FTN / GSM-R Project

Drawing Title: Swinley Forest East (2409) to Bagshot Tunnel (2410)

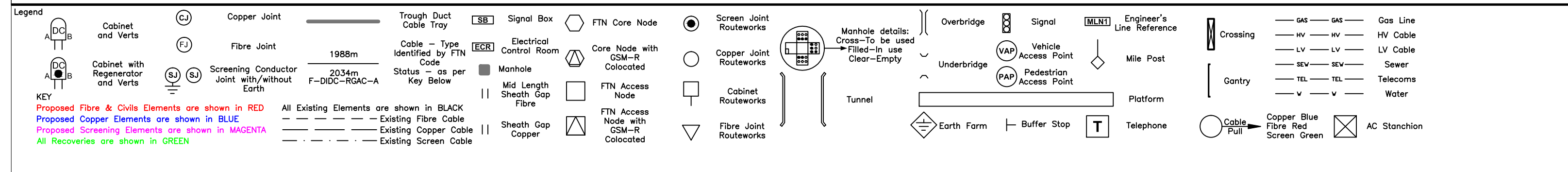
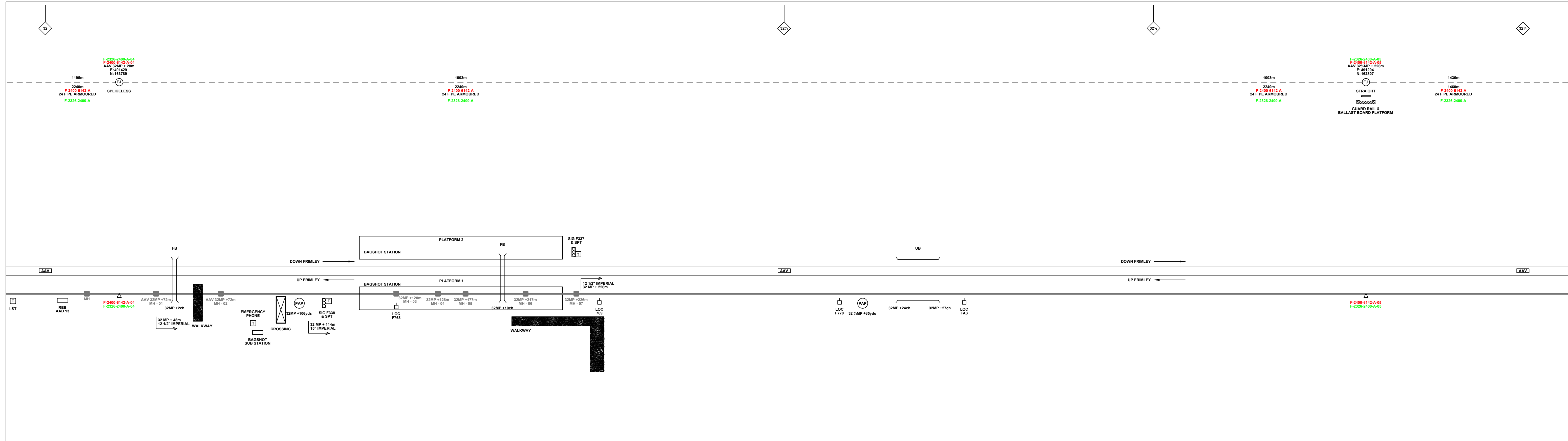
FTN/GSM-R Project
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Alternative Reference: See Layout Tab A3 Sheets 3 and 4

Drawing Number: NTP0\SLD\2409\2410\001

Sheet 2 of 4

Revision A



Notes

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Status: **Design**

Scale(s): ELR & Mileage
NTS AAV

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FTN / GSM-R Project Stage 2 Design

Drawing Title: **Swinley Forest East (2409) to Bagshot Tunnel (2410)**

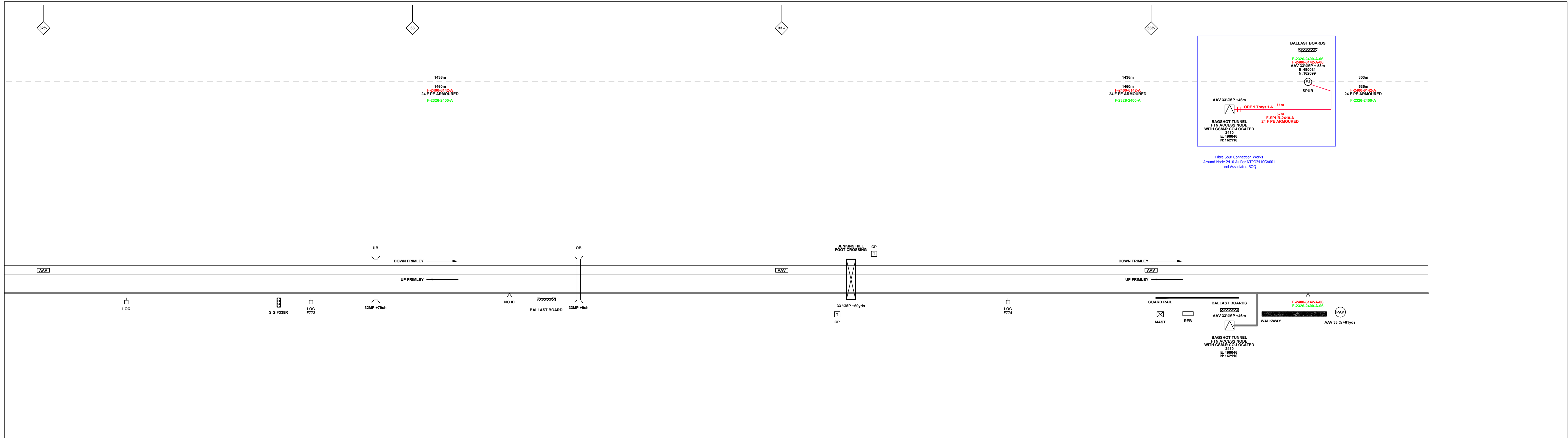
Network Rail

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Alternative Reference: See Layout Tab A3 Sheets 5 and 6

Drawing Number: NTP0\SLD\2409\2410\001

Sheet: 3 of 4
Revision: A



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	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
Screening Conductor Joint with/without Earth	Manhole	Status - as per Key Below	Manhole	FTN Access Node	Cabinet Routeworks	Sheath Gap Copper	Tunnel	Pedestrian Access Point	Platform	LV Cable
KEY		Manhole details:		FTN Access Node with GSM-R Colocated	Fibre Joint Routeworks	Cross - To be used		Earth Farm	Telephone	Sewer
Proposed Fibre & Civils Elements are shown in RED	All Existing Elements are shown in BLACK	Filled - In use		FTN Access Node with GSM-R Colocated		Clear - Empty		Buffer Stop	Copper Blue Fibre Red Screen Green	Water
Proposed Copper Elements are shown in BLUE	Existing Fibre Cable			FTN Access Node with GSM-R Colocated					AC Stanchion	
Proposed Screening Elements are shown in MAGENTA	Existing Copper Cable									
All Recoveries are shown in GREEN	Existing Screen Cable									

Notes

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Design

Scale(s): ELR & Mileage
AAV

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FTN / GSM-R Project Stage 2 Design

Drawing Title: Swinley Forest East (2409) to Bagshot Tunnel (2410)

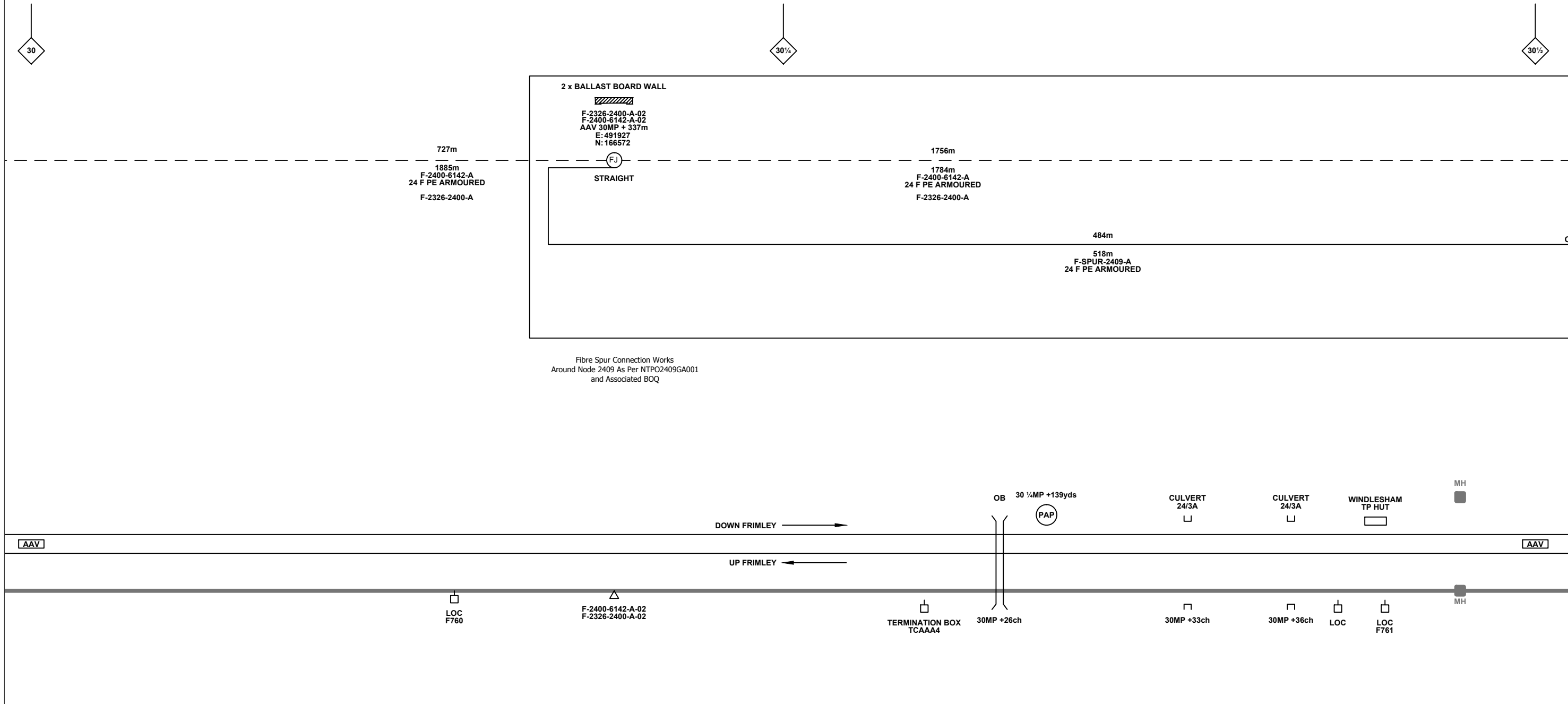
Network Rail

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Alternative Reference: See Layout Tab A3 Sheets 7 and 8

Drawing Number: NTPO\SLD\2409\2410\001

Sheet 4 of 4
Revision A



Fibre Spur Connection Works
Around Node 2409 As Per NTPO2409GA001
and Associated BOQ

Bill of Quantities			
7.359	Renumber Fibre Joint	each	3
7.373	Rename Cable (Fibre)	each	2

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	Manhole	Vehicle Access Point	Mile Post	Gantry	HV — HV — 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	SEW — SEW — Sewer	LV — LV — LV Cable
Proposed Fibre & Civils Elements are shown in RED	Existing Fibre Cable	Existing Copper Cable	Sheath Gap Copper	FTN Access Node with GSM-R Colocated	Fibre Joint Routeworks	Tunnel	Earth Farm	Telephone	TEL — TEL — Telecoms	W — W — Water
Proposed Copper Elements are shown in BLUE	Existing Screen Cable								Cable Pull	AC Stanchion
Proposed Screening Elements are shown in MAGENTA										
All Recoveries are shown in GREEN										
All Existing Elements are shown in BLACK										

Notes

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
A	30/11/10	Redrafted from NTPOSLD24082409001A.dwg & NTPOSLD24092410001DA.dwg	AB	JW	CT

Contractor(s)

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Status: **Design**

Scale(s): NTS

ELR & Mileage: AAV

Designed	NDC Consultants	Sign.	Date	30/11/10
Drawn	Adam Bourne	Sign.	Date	30/11/10
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Approved	Chris Tappenden	Sign.	Date	30/11/10
Project	FTN / GSM-R Project Stage 2 Design			
Drawing Title	Swinley Forest East (2409) to Bagshot Tunnel (2410)			

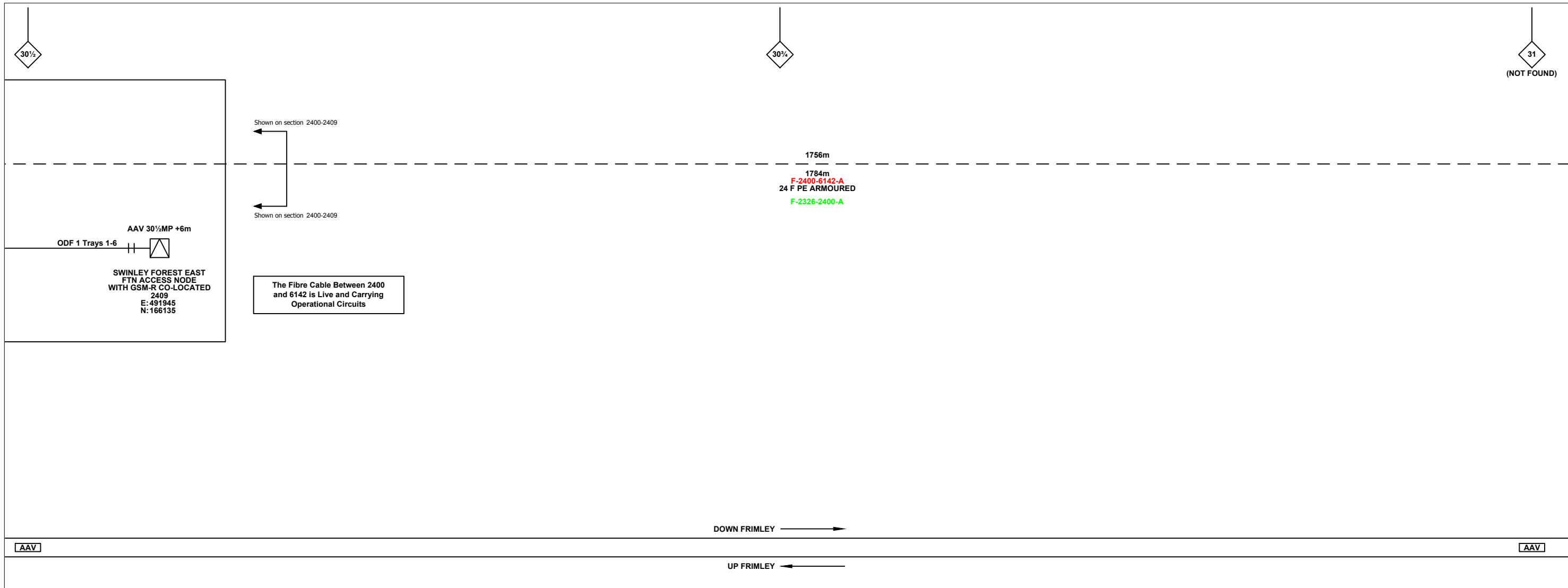
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Alternative Reference: See Layout Tab 841 x 297 Sheet 1

Sheet 1 of 8

Drawing Number: NTPO\SLD\2409\2410\001

Revision: A



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	Vehicle Access Point	Mile Post	Gantry	HV — HV — 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	W — W — Water	Cable Pull
Proposed Fibre & Civils Elements are shown in RED										Earth Farm
Proposed Copper Elements are shown in BLUE										Buffer Stop
Proposed Screening Elements are shown in MAGENTA										Telephone
All Recoveries are shown in GREEN										AC Stanchion
All Existing Elements are shown in BLACK										
Existing Fibre Cable										
Existing Copper Cable										
Existing Screen Cable										

Notes

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
A	30/11/10	Redrafted from NTPOSLD24082409001A.dwg & NTPOSLD24092410001DA.dwg	AB	JW	CT

Contractor(s)

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Status: **Design**

Scale(s): NTS

ELR & Mileage: AAV

Designed	NDC Consultants	Sign.	Date	30/11/10
Drawn	Adam Bourne	Sign.	Date	30/11/10
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Approved	Chris Tappenden	Sign.	Date	30/11/10
Project	FTN / GSM-R Project Stage 2 Design			
Drawing Title	Swinley Forest East (2409) to Bagshot Tunnel (2410)			

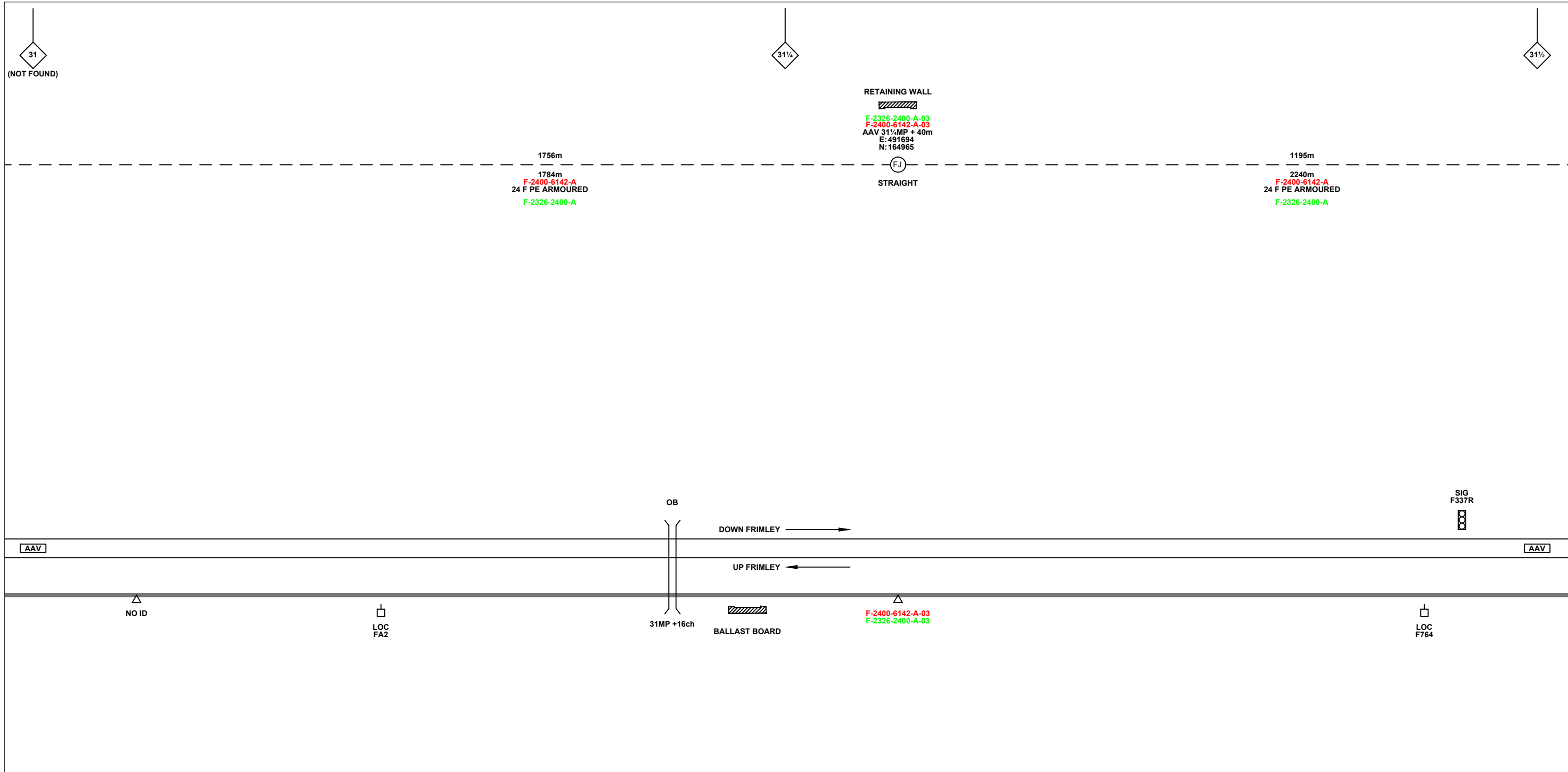
FTN/GSM-R Project
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Alternative Reference: See Layout Tab 841 x 297 Sheet 1

Drawing Number: NTPO\SLD\2409\2410\001

Revision: A

Sheet 2 of 8



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	Vehicle Access Point	Mile Post	Gantry	HV — HV — HV Cable
KEY	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	Pedestrian Access Point	Platform	SEW — SEW — Sewer	LV — LV — LV Cable
Proposed Fibre & Civils Elements are shown in RED		Sheath Gap Copper	FTN Access Node with GSM-R Colocated	Fibre Joint Routeworks	Tunnel	Earth Farm	Buffer Stop	Telephone	TEL — TEL — Telecoms	W — W — Water
Proposed Copper Elements are shown in BLUE									Cable Pull	AC Stanchion
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

Contractor(s)

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Status: **Design**

Scale(s): NTS

ELR & Mileage: AAV

Designed	NDC Consultants	Sign.		Date	30/11/10
Drawn	Adam Bourne	Sign.		Date	30/11/10
Checked	Joe Winter	Sign.		Date	30/11/10
Approved	Chris Tappenden	Sign.		Date	30/11/10
Project	FTN / GSM-R Project Stage 2 Design				
Drawing Title	Swinley Forest East (2409) to Bagshot Tunnel (2410)				

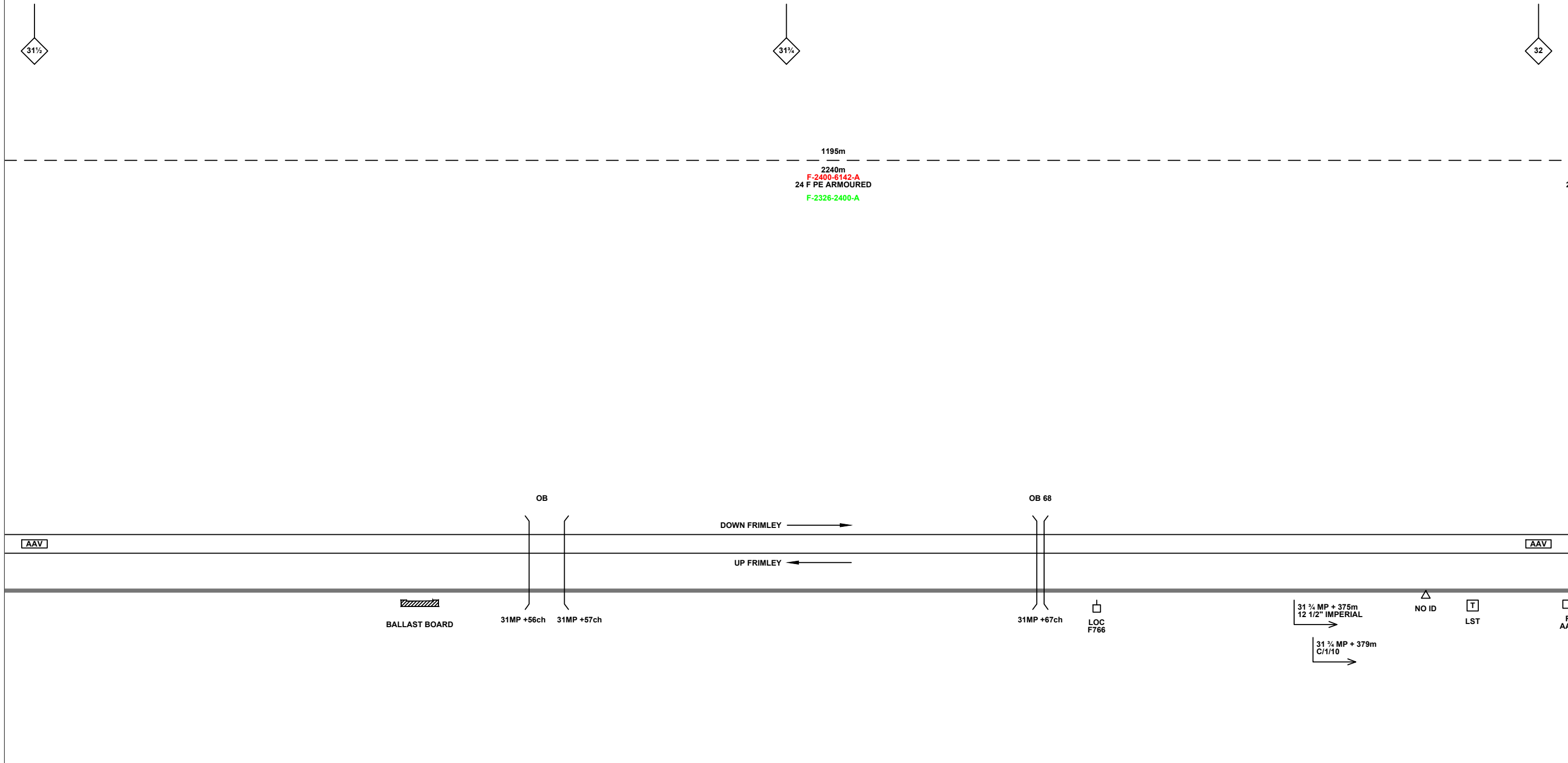
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London
W2 1HA

Alternative Reference: See Layout Tab 841 x 297 Sheet 2

Drawing Number: NTPO\SLD\2409\2410\001

Sheet: 3 of 8

Revision: A



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	Vehicle Access Point	Mile Post	Gantry	HV — HV — 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	SEW — SEW — Sewer	TEL — TEL — Telecoms
Proposed Fibre & Civils Elements are shown in RED										W — W — Water
Proposed Copper Elements are shown in BLUE										Cable Pull
Proposed Screening Elements are shown in MAGENTA										AC Stanchion
All Recoveries are shown in GREEN										
All Existing Elements are shown in BLACK										
Existing Fibre Cable										
Existing Copper Cable										
Existing Screen Cable										

Contractor(s)	ndc consultants		
Status	Design		
Scale(s)	NTS	ELR & Mileage	AAV
Rev	Date	Description of Revisions	Drawn
A	30/11/10	Redrafted from NTPOSLD24082409001A.dwg & NTPOSLD24092410001DA.dwg	AB JW CT

Contractor(s)

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

Designed	NDC Consultants	Sign.	Date	30/11/10
Drawn	Adam Bourne	Sign.	Date	30/11/10
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Project	FTN / GSM-R Project Stage 2 Design			
Drawing Title	Swinley Forest East (2409) to Bagshot Tunnel (2410)			

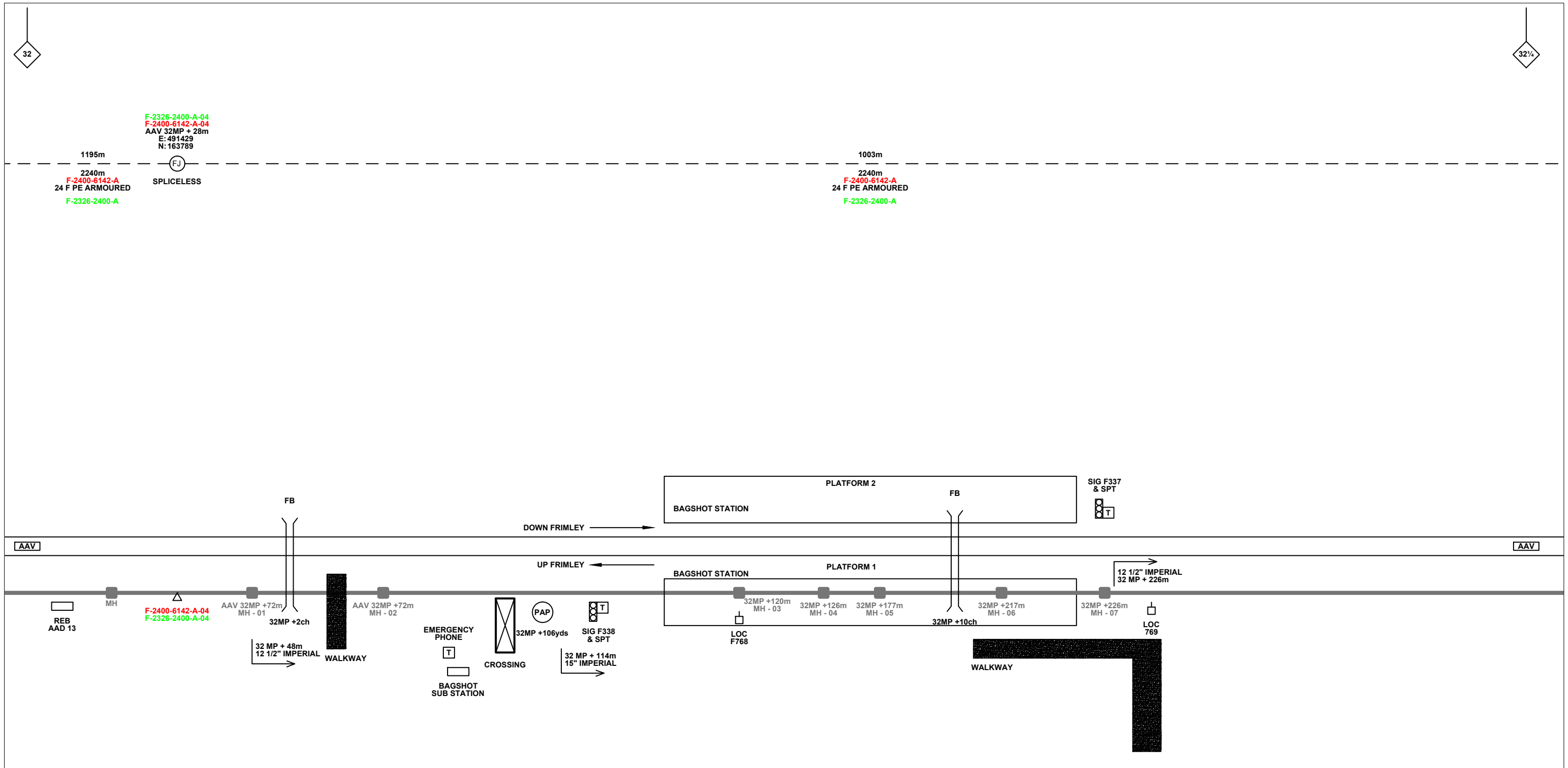
FTN/GSM-R Project
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Alternative Reference: See Layout Tab 841 x 297 Sheet 2

Drawing Number: NTPO\SLD\2409\2410\001

Sheet: 4 of 8

Revision: A



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	Vehicle Access Point	Mile Post	Gantry	HV — HV — 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	SEW — SEW — Sewer	LV — LV — 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	Telephone	TEL — TEL — Telecoms	W — W — Water
Proposed Copper Elements are shown in BLUE		Existing Fibre Cable	Sheath Gap Copper				Buffer Stop	Cable Pull	AC Stanchion	
Proposed Screening Elements are shown in MAGENTA		Existing Copper Cable								
All Recoveries are shown in GREEN		Existing Screen Cable								

Notes

Contractor(s)

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

Status: **Design**

Scale(s): NTS

ELR & Mileage: AAV

Designed	NDC Consultants	Sign.		Date	30/11/10
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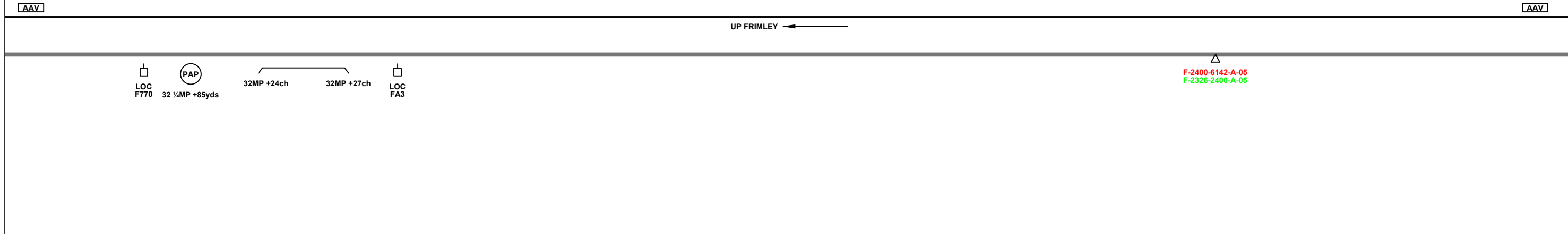
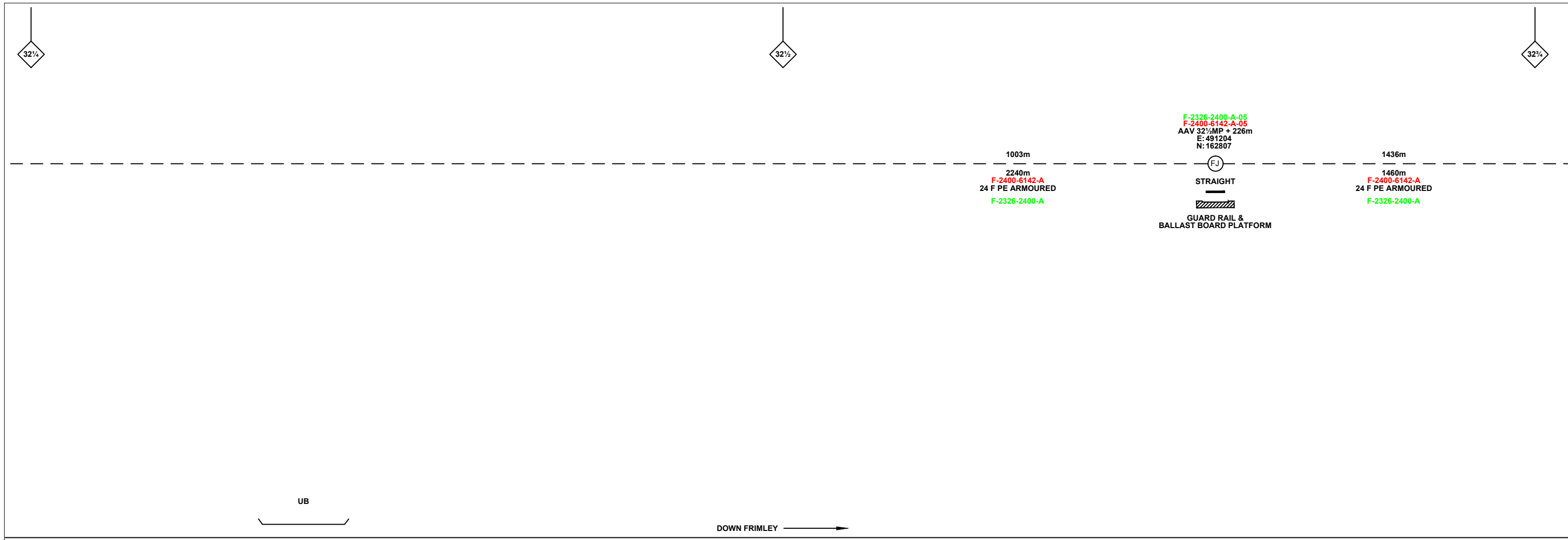
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Alternative Reference: See Layout Tab 841 x 297 Sheet 3

Sheet: 5 of 8

Drawing Number: NTPO\SLD\2409\2410\001

Revision: A



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	Manhole	VAP Access Point	Mile Post	Gantry	HV — HV — HV Cable
KEY	Screening Conductor Joint with/without Earth	1988m	Status - as per Key Below	FTN Access Node	Cabinet Routeworks	Mid Length Sheath Gap Fibre	PAP Access Point	Platform	SEW — SEW — Sewer	LV — LV — LV Cable
Proposed Fibre & Civils Elements are shown in RED		2034m F-DIDC-RGAC-A	Sheath Gap Fibre	FTN Access Node with GSM-R Colocated	Fibre Joint Routeworks	Sheath Gap Copper	Earth Farm	Telephone	W — W — Water	Cable Pull
Proposed Copper Elements are shown in BLUE		Existing Fibre Cable	Manhole		Tunnel		Buffer Stop		AC Stanchion	
Proposed Screening Elements are shown in MAGENTA		Existing Copper Cable								
All Recoveries are shown in GREEN		Existing Screen Cable								

Notes

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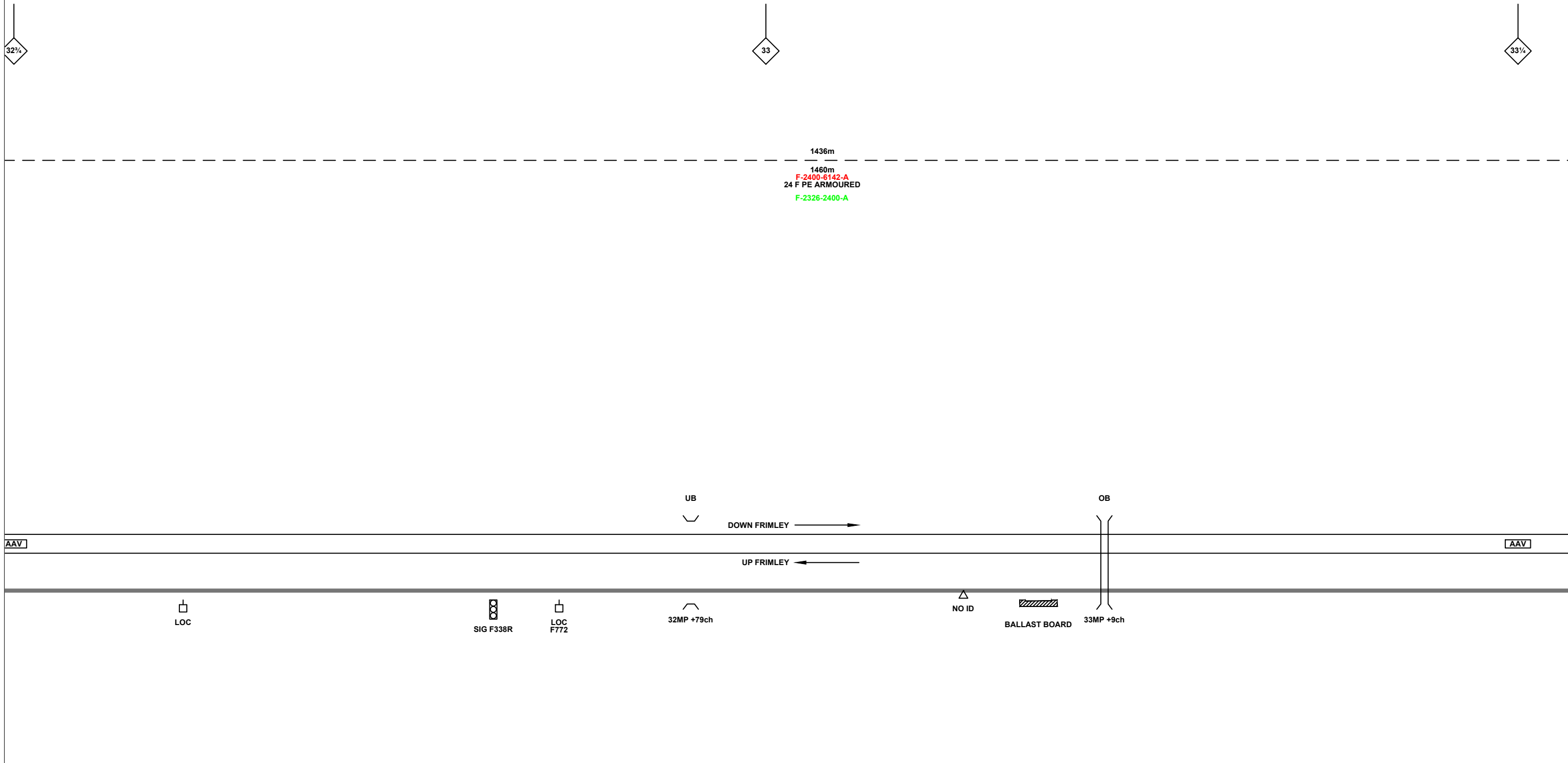
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Alternative Reference: See Layout Tab 841 x 297 Sheet 3

Drawing Number: NTPO\SLD\2409\2410\001

Revision: **A**

Sheet: 6 of 8



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	Vehicle Access Point	Mile Post	Gantry	HV — HV — 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	SEW — SEW — Sewer	LV — LV — 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	Telephone	TEL — TEL — Telecoms	W — W — Water
Proposed Copper Elements are shown in BLUE		Existing Fibre Cable	Sheath Gap Copper				Buffer Stop		Cable Pull	AC Stanchion
Proposed Screening Elements are shown in MAGENTA		Existing Copper Cable								
All Recoveries are shown in GREEN		Existing Screen Cable								

Notes

Contractor(s)

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

Status: **Design**

Scale(s): NTS (North), AAV (As Above)

Designed	NDC Consultants	Sign.		Date	30/11/10
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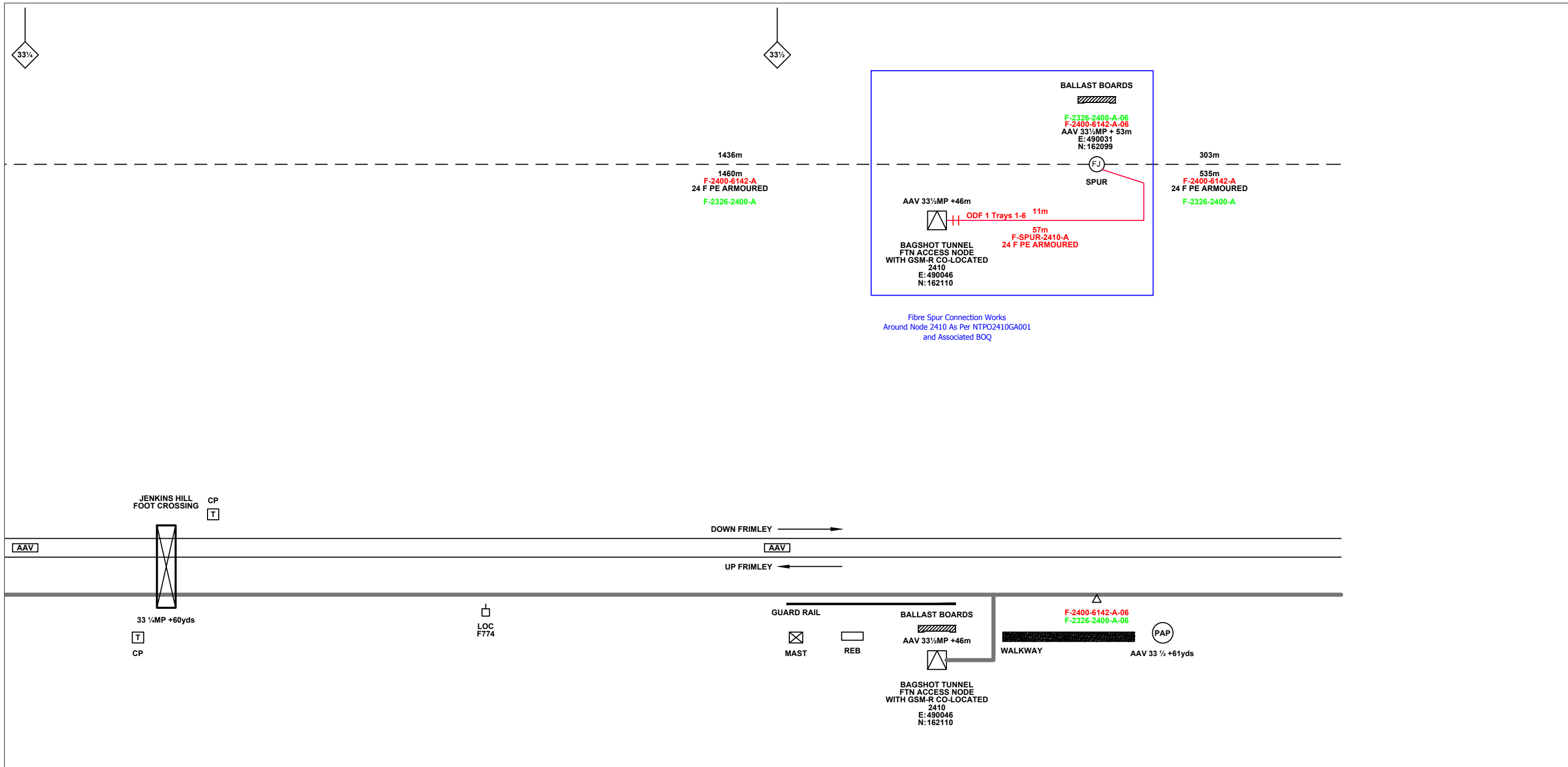
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Alternative Reference: See Layout Tab 841 x 297 Sheet 4

Drawing Number: NTPO\SLD\2409\2410\001

Sheet: 7 of 8

Revision: A



Fibre Spur Connection Works
 Around Node 2410 As Per NTPO2410GA001
 and Associated BOQ

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	Vehicle Access Point	Mile Post	Gantry	HV — HV — 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	SEW — SEW — Sewer	TEL — TEL — Telecoms
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	Telephone	W — W — Water	AC Stanchion
Proposed Copper Elements are shown in BLUE		Existing Fibre Cable	Sheath Gap Copper				Buffer Stop	Cable Pull	Copper Blue Fibre Red Screen Green	
Proposed Screening Elements are shown in MAGENTA		Existing Copper Cable								
All Recoveries are shown in GREEN		Existing Screen Cable								

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Alternative Reference: See Layout Tab 841 x 297 Sheet 4

Sheet 8 of 8

Drawing Number: NTPO\SLD\2409\2410\001

Revision: A