

Legend

Cabinet and Verts	Copper Joint	Trough Duct Cable Tray	Signal Box	FTN Core Node	Screen Joint Routeworks
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
Screening Conductor Joint with/without Earth	Manhole	Status - as per Key Below	Mid Length Sheath Gap Fibre	FTN Access Node	Cabinet Routeworks
KEY	Existing Fibre Cable	Existing Copper Cable	Existing Screen Cable	FTN Access Node with GSM-R Colocated	Fibre Joint Routeworks
Proposed Fibre & Civils Elements are shown in RED	All Existing Elements are shown in BLACK	Proposed Copper Elements are shown in BLUE	Proposed Screening Elements are shown in MAGENTA	All Recoveries are shown in GREEN	Manhole details: Cross-To be used, Filled-In use, Clear-Empty

Overbridge
 Underbridge
 Gantry
 Crossing
 Cable Pull
 Signal
 Vehicle Access Point
 Pedestrian Access Point
 Gas Line
 HV Cable
 LV Cable
 Sewer
 Telecoms
 Water
 Copper Blue Fibre Red Screen Green
 Mast
 Earth Farm
 Buffer Stop
 Telephone
 Engineer's Line Reference
 Mile Post
 Platform

Notes

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
B	19/11/12	As Built	RJT	JO	PH
A	22/08/12	Redrafted From 1144-EAGC-SDL-V1.1.dwg	SH	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: BML1, ECR

Designed	Stephen Holder	Sign.		Date	22/08/2012
Checked	Joe Winter	Sign.		Date	22/08/2012
Approved	Chris Tappenden	Sign.		Date	22/08/2012

Project: **FTN/GSM-R Project Stage 2 As Built**

Drawing Title: **Shawford STN (1144) to Eastleigh Signal Centre (EAGC)**

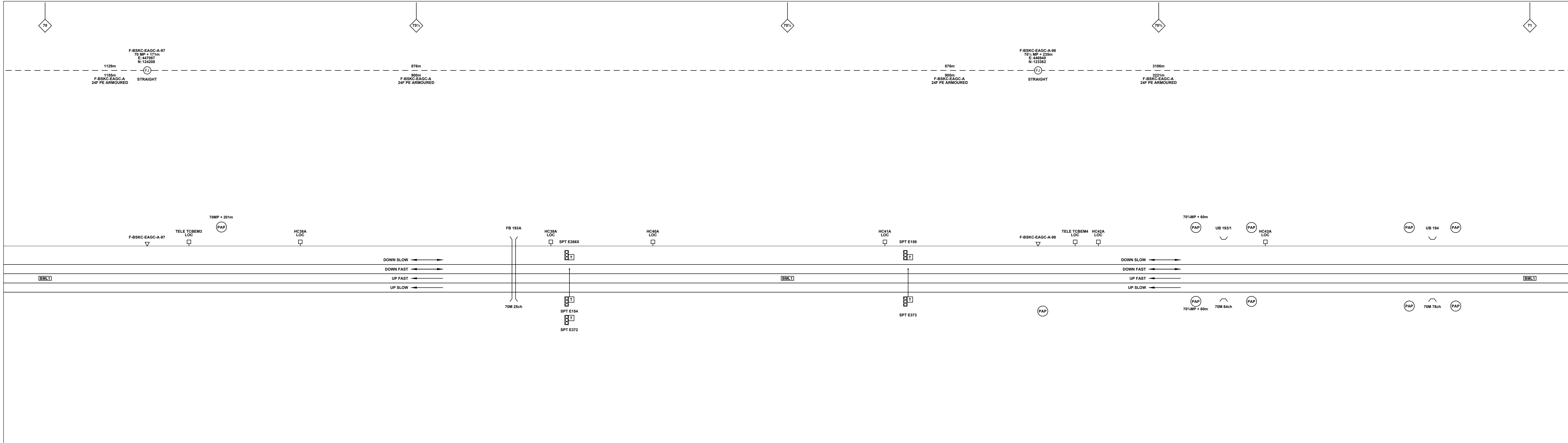
FTN/GSM-R Project
Tournament House
Paddington
London
W2 1PA

Alternative Reference: See Layout Tab A3 Sheets 1 and 2

Drawing Number: **NTPO\SLD\1144\EAGC\001**

Sheet **1** of **5**

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		Electrical Control Room		Manhole		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		FTN Access Node		FTN Access Node with GSM-R Colocated		Cabinet Routeworks		Sheath Gap Copper		Platform		Pedestrian Access Point		Telephone
	Proposed Fibre & Civils Elements are shown in RED		Existing Fibre Cable		Manhole		FTN Access Node		FTN Access Node with GSM-R Colocated		Fibre Joint Routeworks		Tunnel		Earth Form		Buffer Stop		Cable Pull
	Proposed Copper Elements are shown in BLUE		Existing Copper Cable		Manhole		FTN Access Node		FTN Access Node with GSM-R Colocated		Copper Blue Fibre		Screen Green		Mast		Gas Line		HV Cable
	Proposed Screening Elements are shown in MAGENTA		Existing Screen Cable		Manhole		FTN Access Node		FTN Access Node with GSM-R Colocated		LV Cable		Sewer		Telecoms		Water		

Notes

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
B	19/11/12	As Built	RJT	JO	PH
A	22/08/12	Redrafted From 1144-EAGC-SLD-V1.1.dwg	SH	JW	CT

Contractor(s)

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

ndcconsultants

Status: **As Built**

Scale(s): ELR & Mileage

NTS BML1, ECR

Designed	Stephen Holder	Sign.	[Signature]	Date	22/08/2012
Checked	Joe Winter	Sign.	[Signature]	Date	22/08/2012
Approved	Chris Tappenden	Sign.	[Signature]	Date	22/08/2012

Project: **FTN/GSM-R Project Stage 2 As Built**

Drawing Title: **Shawford STN (1144) to Eastleigh Signal Centre (EAGC)**

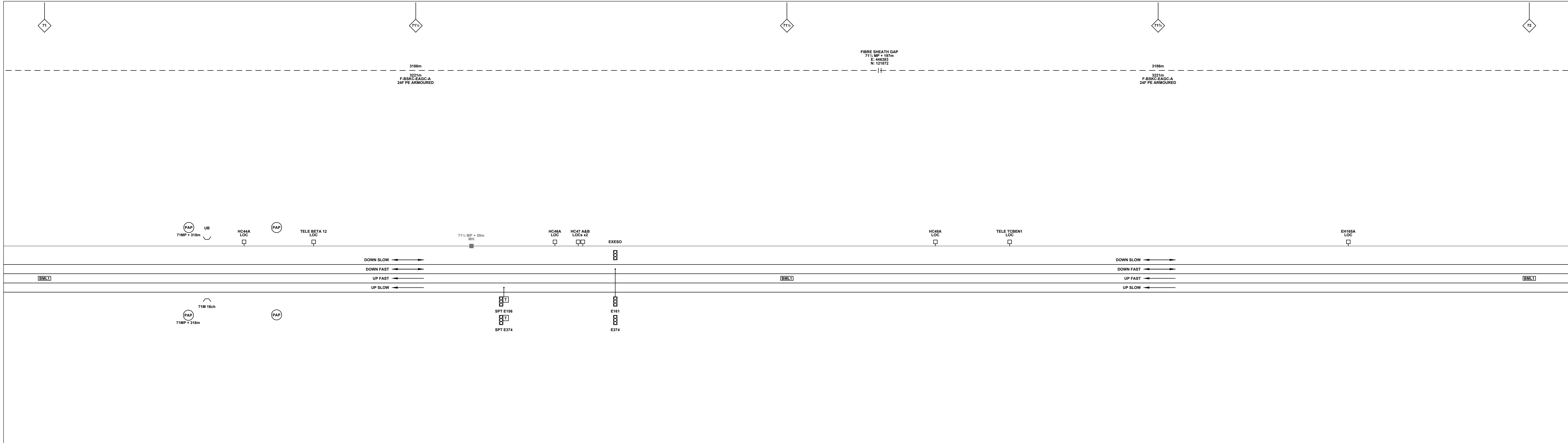
FTN/GSM-R Project
Tournament House
Passington
London
W2 1HA

Alternative Reference: **See Layout Tab A3 Sheets 3 and 4**

Drawing Number: **NTPO\SLD\1144\EAGC\001**

Sheet: **2 of 5**

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	Gas Line
Cabinet with Regenerator and Verts	Fibre Joint	Electrical Control Room	Manhole	Core Node with GSM-R Colocated	Copper Joint Routeworks	Underbridge	Vehicle Access Point	Mile Post	HV Cable
Screening Conductor Joint with/without Earth	Cable - Type Identified by FTN Code Status - as per Key Below	Manhole details: Cross-To be used Filled-In use Clear-Empty	Mid Length Sheath Gap Fibre	FTN Access Node	Cabinet Routeworks	Platform	Pedestrian Access Point	Engineer's Line Reference	LV Cable
	Existing Fibre Cable	Existing Copper Cable	Existing Screen Cable	FTN Access Node with GSM-R Colocated	Fibre Joint Routeworks	Earth Form	Buffer Stop	Telephone	Sewer
									Water

Notes

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
B	19/11/12	As Built	RJT	JO	PH
A	22/08/12	Redrafted From 1144-EAGC-SLD-V1.1.dwg	SH	JW	CT

Contractor(s)

ndcconsultants

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

Status: **As Built**

Scale(s): NTS

ELR & Mileage: BML1, ECR

Designed	Stephen Holder	Sign.		Date	22/08/2012
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Approved	Chris Tappenden	Sign.		Date	22/08/2012

Project: FTN/GSM-R Project Stage 2 As Built

Drawing Title: Shawford STN (1144) to Eastleigh Signal Centre (EAGC)

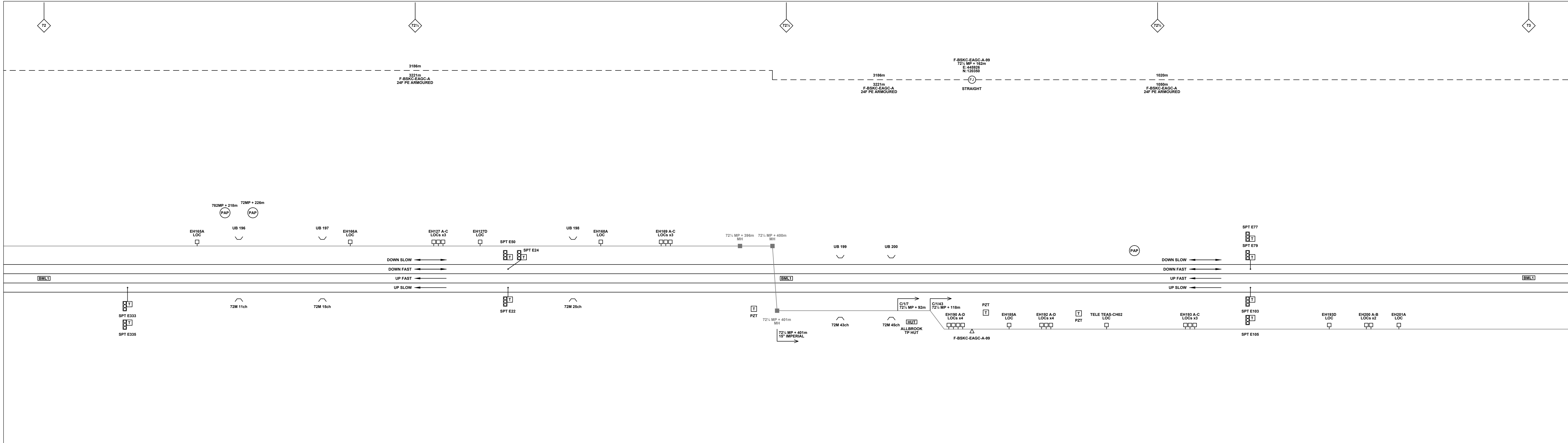
FTN/GSM-R Project
Tournament House
Passington
London
W2 1HA

Alternative Reference: See Layout Tab A3 Sheets 5 and 6

Drawing Number: NTPO\SLD\1144\EAGC\001

Revision: **B**

Sheet 3 of 5



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		Electrical Control Room		Core Node with GSM-R Colocated		Copper Joint Routeworks		Manhole		Mid Length Sheath Gap Fibre		Underbridge		Vehicle Access Point		Mile Post
	Screening Conductor Joint with/without Earth		Manhole		FTN Access Node		Cabinet Routeworks		FTN Access Node with GSM-R Colocated		Fibre Joint Routeworks		Tunnel		Earth Form		Pedestrian Access Point		Platform
	KEY		Manhole		Sheath Gap Copper		Buffer Stop		Telephone		Cable Pull		Mast		Gas Line		HV Cable		LV Cable

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

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
B	19/11/12	As Built	RJT	JO	PH
A	22/08/12	Redrafted From 1144-EAGC-SLD-V1.1.dwg	SH	JW	CT
		Description of Revisions			

Contractor(s)

ndcconsultants

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

As Built

Scale(s)
ELR & Mileage
BML1, ECR

Designed	Stephen Holder	Sign.	[Signature]	Date	22/08/2012
Checked	Joe Winter	Sign.	[Signature]	Date	22/08/2012
Approved	Chris Tappenden	Sign.	[Signature]	Date	22/08/2012
Project	FTN/GSM-R Project Stage 2 As Built				
Drawing Title	Shawford STN (1144) to Eastleigh Signal Centre (EAGC)				

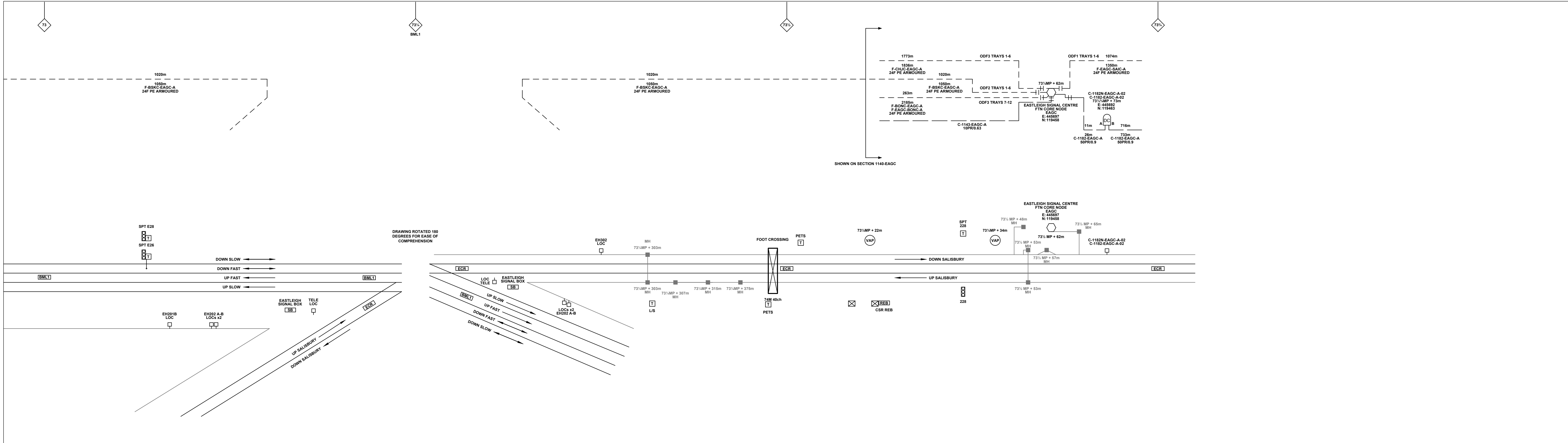
FTN/GSM-R Project
Tournament House
Passington
London
W2 1HA

Alternative Reference
See Layout Tab A3 Sheets 7 and 8

Drawing Number
NTPO\SLD\1144\EAGC\001

Sheet
4 of 5

Revision
B



Legend

Cabinet and Verts	Copper Joint	Trough Duct Cable Tray	Signal Box	FTN Core Node	Screen Joint Routeworks
Fibre Joint	1988m Cable - Type Identified by FTN Code Status - as per Key Below	Manhole	Electrical Control Room	Core Node with GSM-R Colocated	Copper Joint Routeworks
Cabinet with Regenerator and Verts	2034m F-DIDC-RGAC-A Screening Conductor Joint with/without Earth	Mid Length Sheath Gap Fibre	Manhole	FTN Access Node	Cabinet Routeworks
KEY	All Existing Elements are shown in BLACK	Sheath Gap Copper	FTN Access Node with GSM-R Colocated	Fibre Joint Routeworks	Tunnel
Proposed Fibre & Civils Elements are shown in RED	Existing Fibre Cable	Existing Copper Cable	Existing Screen Cable	Overbridge	Signal
Proposed Copper Elements are shown in BLUE	Existing Fibre Cable	Existing Copper Cable	Existing Screen Cable	Underbridge	Vehicle Access Point
Proposed Screening Elements are shown in MAGENTA	Existing Fibre Cable	Existing Copper Cable	Existing Screen Cable	Pedestrian Access Point	Engineer's Line Reference
All Recoveries are shown in GREEN	Existing Fibre Cable	Existing Copper Cable	Existing Screen Cable	Platform	Mile Post
	Existing Fibre Cable	Existing Copper Cable	Existing Screen Cable	Buffer Stop	Telephone

Notes

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
B	19/11/12	As Built	RJT	JO	PH
A	22/08/12	Redrafted From 1144-EAGC-SLD-V1.1.dwg	SH	JW	CT
		Description of Revisions			

Contractor(s)

Kelly Integrated Transport Services Ltd

ndcconsultants

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

Status

As Built

Scale(s)
BML1, ECR

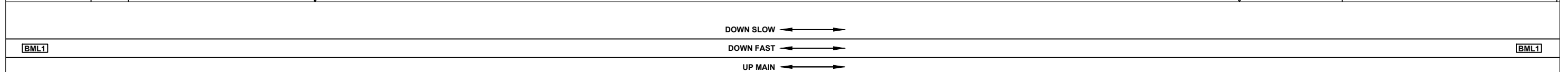
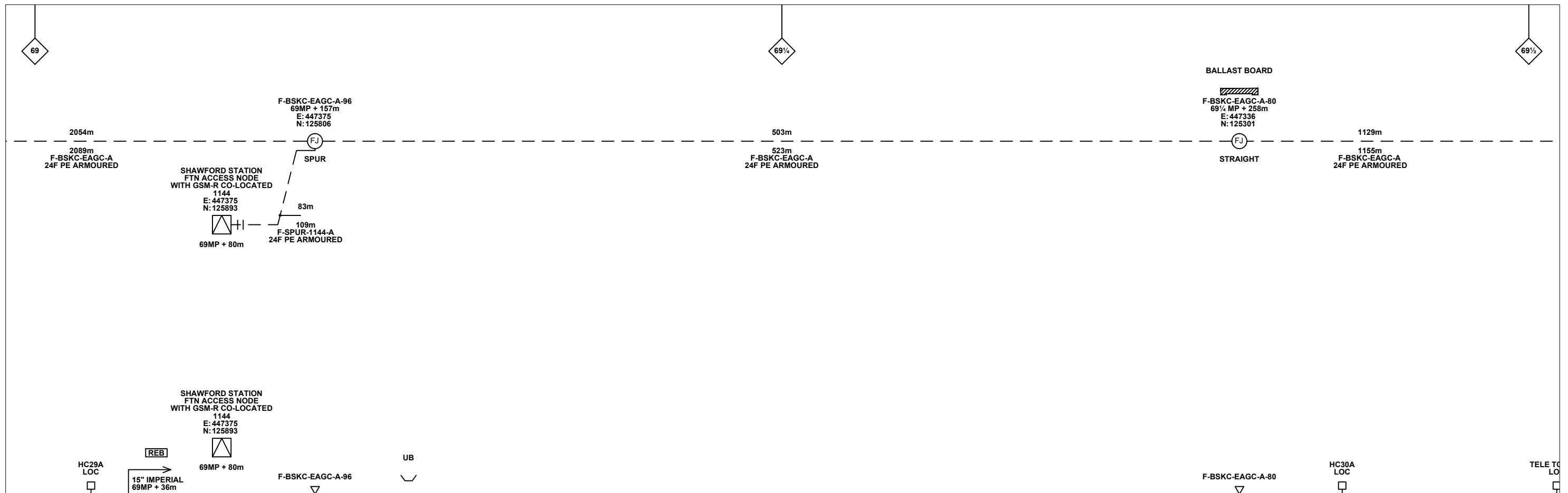
Designed	Stephen Holder	Sign.		Date	22/08/2012
Checked	Joe Winter	Sign.		Date	22/08/2012
Approved	Chris Tappenden	Sign.		Date	22/08/2012
Project	FTN/GSM-R Project Stage 2 As Built				
Drawing Title	Shawford STN (1144) to Eastleigh Signal Centre (EAGC)				

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

Alternative Reference
See Layout Tab A3 Sheets 9 and 10

Sheet
5 of 5

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	19/11/12	As Built	RJT	JO	PH
A	22/08/12	Redrafted From 1144-EAGC-SLD-V1.1.dwg	SH	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: BML1, ECR

Designed		Sign.		Date	
Drawn	Stephen Holder	Sign.		Date	22/08/2012
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Approved	Chris Tappenden	Sign.		Date	22/08/2012
Project	FTN/GSM-R Project Stage 2 As Built				
Drawing Title	Shawford STN (1144) to Eastleigh Signal Centre (EAGC)				

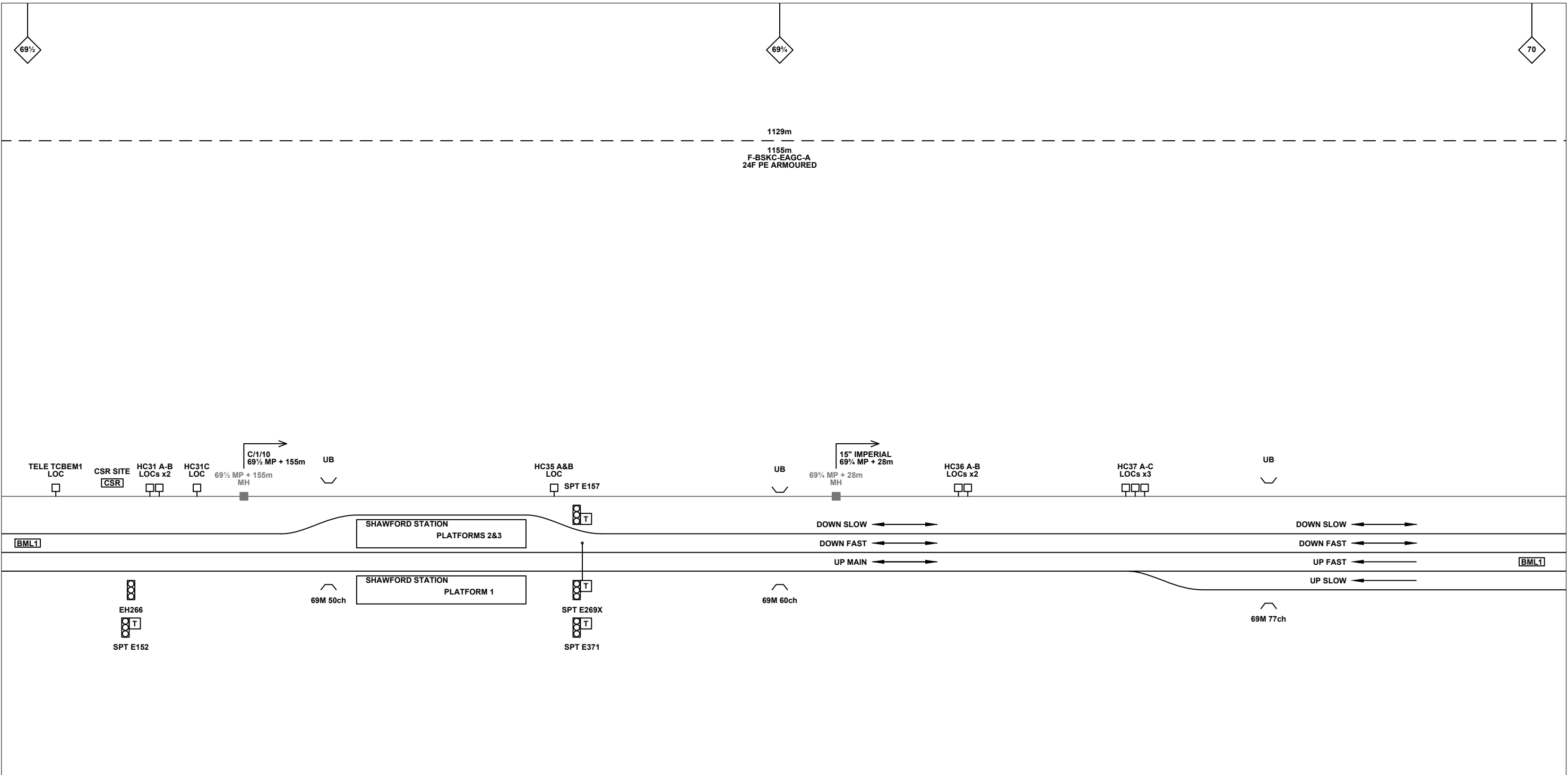
FTN/GSM-R Project
Tournament House
Paddington
London
W2 1HA

Alternative Reference: See Layout Tab 841 x 297 Sheet 1

Drawing Number: NTPO\SLD\1144\EAGC\001

Sheet: 1 of 10

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	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	Sewer	LV Cable
Proposed Fibre & Civils Elements are shown in RED		1988m	Sheath Gap Copper	FTN Access Node with GSM-R Colocated	Fibre Joint Routeworks	Tunnel	Earth Farm	Buffer Stop	Water	Copper Blue Fibre Red Screen Green
Proposed Copper Elements are shown in BLUE		2034m F-DIDC-RGAC-A								Mast
Proposed Screening Elements are shown in MAGENTA		Status - as per Key Below								
All Recoveries are shown in GREEN		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
B	19/11/12	As Built	RJT	JO	PH
A	22/08/12	Redrafted From 1144-EAGC-SLD-V1.1.dwg	SH	JW	CT

Contractor(s)

ndc consultants

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

Status: **As Built**

Scale(s): NTS

ELR & Mileage: BML1, ECR

Designed		Sign.		Date	
Drawn	Stephen Holder	Sign.		Date	22/08/2012
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Project	FTN/GSM-R Project Stage 2 As Built				
Drawing Title	Shawford STN (1144) to Eastleigh Signal Centre (EAGC)				

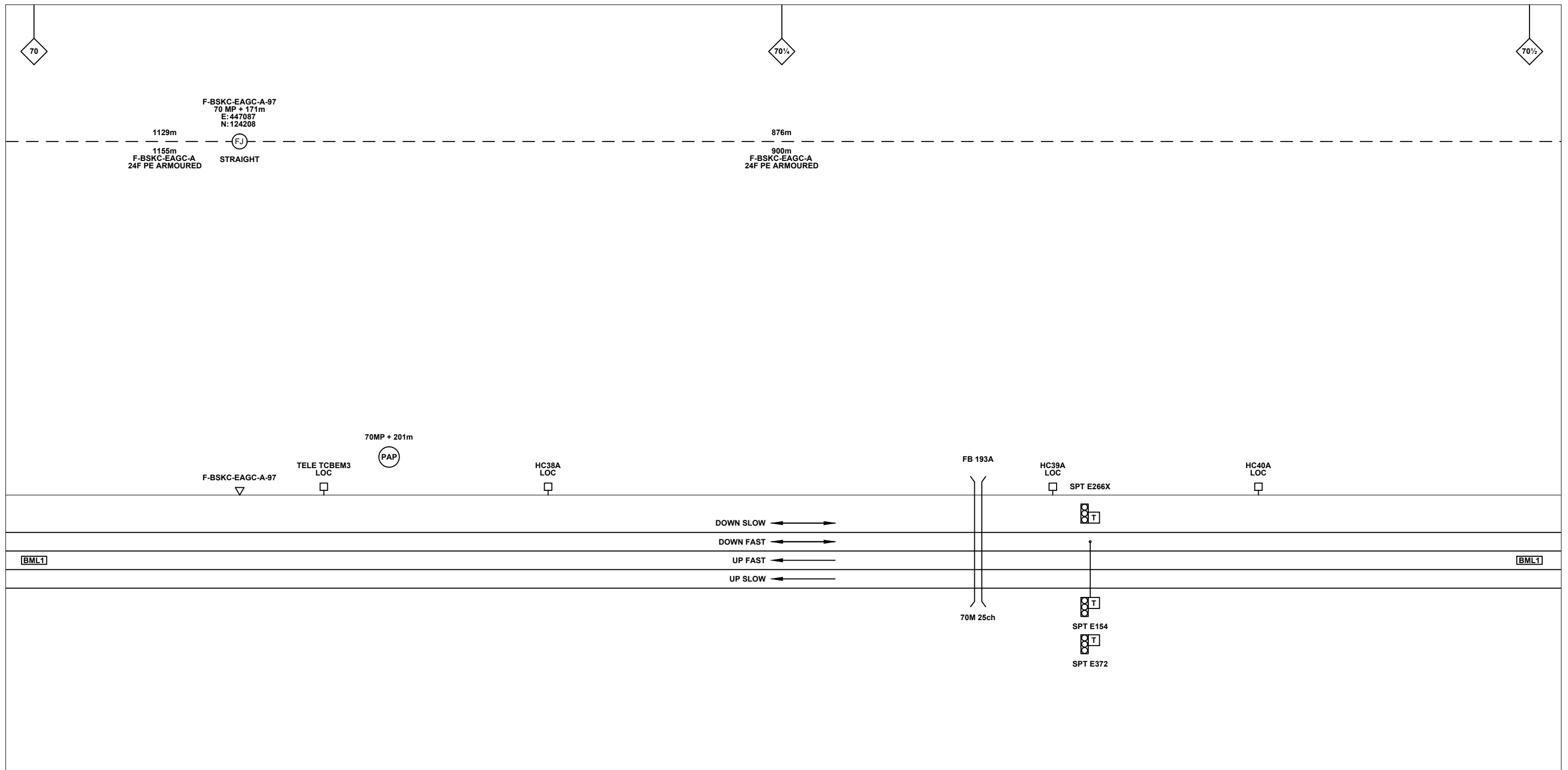
FTN/GSM-R Project
Tournament House
Paddington
London
W2 1HA

Alternative Reference: See Layout Tab 841 x 297 Sheet 1

Drawing Number: NTPO\SLD\1144\EAGC\001

Sheet: 2 of 10

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	19/11/12	As Built	RJT	JO	PH
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Contractor(s)

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

Status: **As Built**

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ELR & Mileage: BML1, ECR

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Project	FTN/GSM-R Project Stage 2 As Built				
Drawing Title	Shawford STN (1144) to Eastleigh Signal Centre (EAGC)				

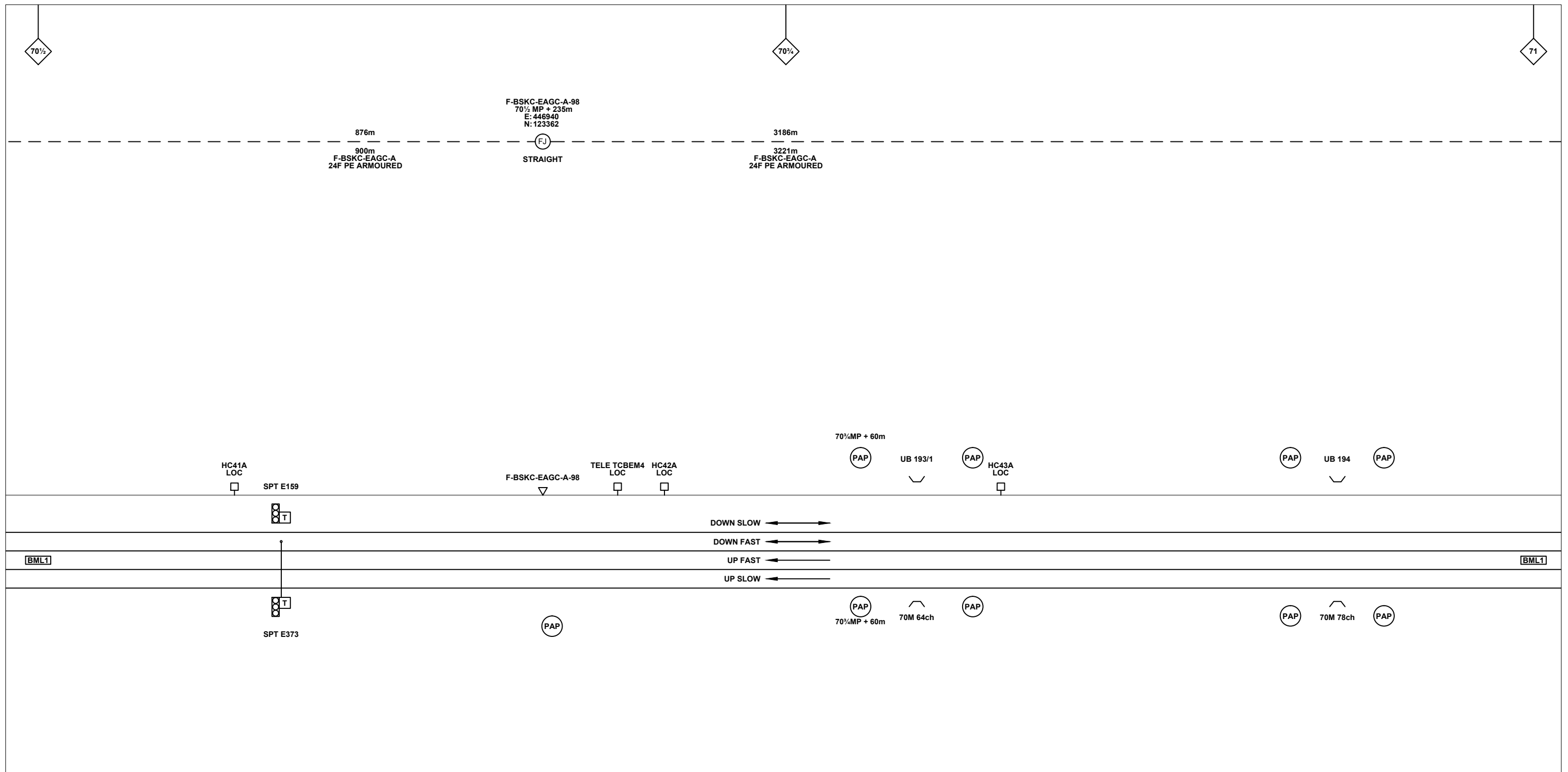
FTN/GSM-R Project
Tournament House
Paddington
London
W2 1HA

Alternative Reference: See Layout Tab 841 x 297 Sheet 2

Drawing Number: NTPO\SLD\1144\EAGC\001

Sheet: 3 of 10

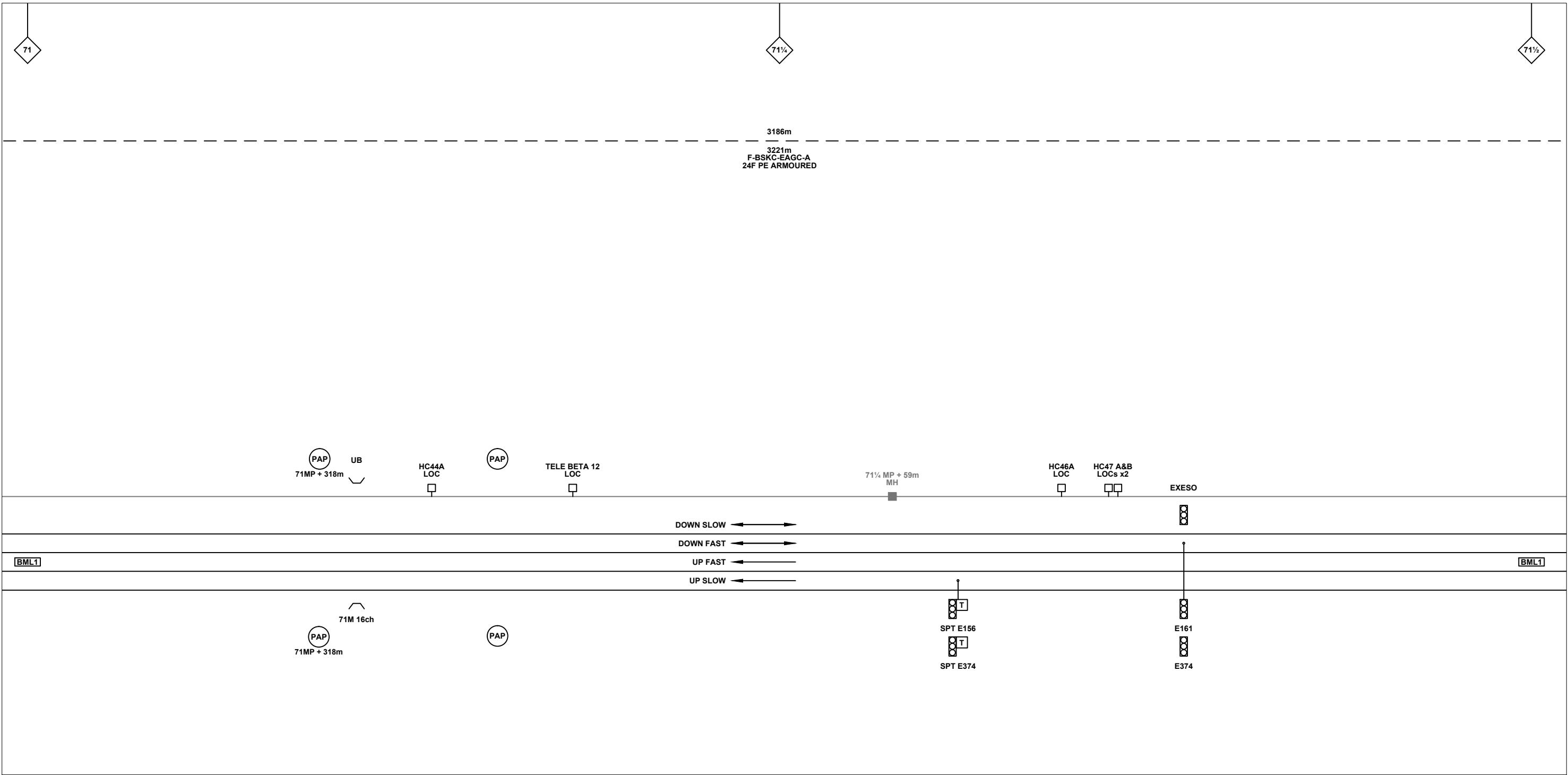
Revision: B



Legend

Cabinet and Verts	Copper Joint	Fibre 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	Screening Conductor Joint with/without Earth	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	Gas
KEY	Manhole	Mid Length Sheath Gap Fibre	Status - as per Key Below	FTN Access Node	FTN Access Node with GSM-R Colocated	Cabinet Routeworks	Tunnel	Pedestrian Access Point	Platform	LV Cable	Sewer
Proposed Fibre & Civils Elements are shown in RED	Manhole	Sheath Gap Copper	Existing Fibre Cable	Existing Copper Cable	Existing Screen Cable	Fibre Joint Routeworks	Earth Farm	Buffer Stop	Telephone	Water	Mast
Proposed Copper Elements are shown in BLUE	Manhole	Manhole	Existing Fibre Cable	Existing Copper Cable	Existing Screen Cable	Manhole	Manhole	Manhole	Manhole	Manhole	Manhole
Proposed Screening Elements are shown in MAGENTA	Manhole	Manhole	Existing Fibre Cable	Existing Copper Cable	Existing Screen Cable	Manhole	Manhole	Manhole	Manhole	Manhole	Manhole
All Recoveries are shown in GREEN	Manhole	Manhole	Existing Fibre Cable	Existing Copper Cable	Existing Screen Cable	Manhole	Manhole	Manhole	Manhole	Manhole	Manhole

				Unit 4 Apex Park, Wainwright Road, Worcester, Worcestershire, WR4 9FN. Tel: 01905 756000		Designed: _____ Sign: _____ Date: _____ Drawn: Stephen Holder Sign: <i>[Signature]</i> Date: 22/08/2012 Checked: Joe Winter Sign: <i>[Signature]</i> Date: 22/08/2012 Approved: Chris Tappenden Sign: <i>[Signature]</i> Date: 22/08/2012			
Contractor(s)		Status: As Built		Drawing Title: Shawford STN (1144) to Eastleigh Signal Centre (EAGC)		Project: FTN/GSM-R Project Stage 2 As Built		Alternative Reference: See Layout Tab 841 x 297 Sheet 2	
Scale(s): NTS		ELR & Mileage: BML1, ECR		Drawing Number: NTPO\SLD\1144\EAGC\001		Sheet: 4 of 10		Revision: B	
Rev Date Description of Revisions Drawn Chkd Appr		B 19/11/12 As Built RJT JO PH		A 22/08/12 Redrafted From 1144-EAGC-SLD-V1.1.dwg SH JW CT		Drawing Number: NTPO\SLD\1144\EAGC\001		Sheet: 4 of 10	



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
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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

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B	19/11/12	As Built	RJT	JO	PH
A	22/08/12	Redrafted From 1144-EAGC-SLD-V1.1.dwg	SH	JW	CT

Contractor(s)

ndc consultants

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Status: **As Built**

Scale(s): NTS

ELR & Mileage: BML1, ECR

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Project	FTN/GSM-R Project Stage 2 As Built				
Drawing Title	Shawford STN (1144) to Eastleigh Signal Centre (EAGC)				

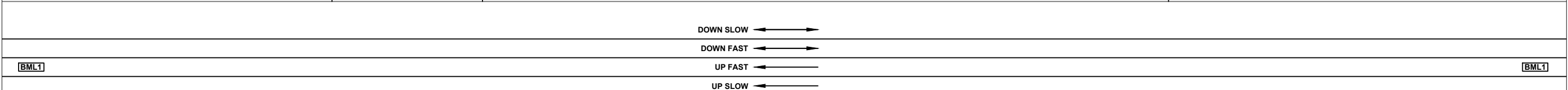
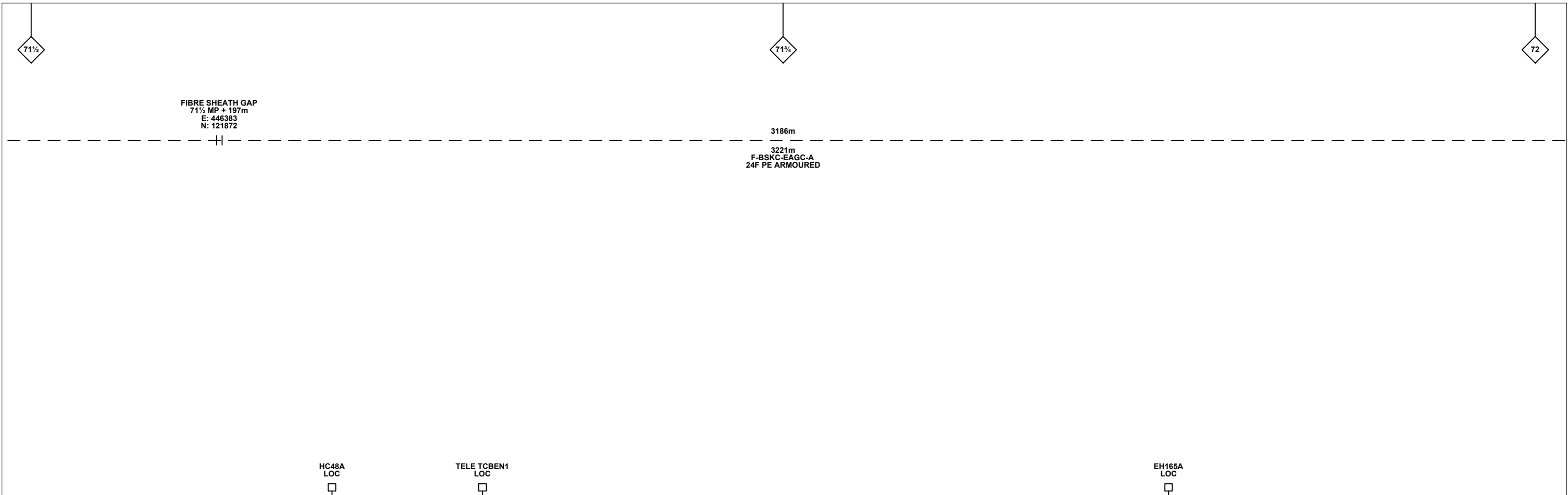
FTN/GSM-R Project
Tournament House
Paddington
London
W2 1HA

Alternative Reference: See Layout Tab 841 x 297 Sheet 3

Drawing Number: NTPO\SLD\1144\EAGC\001

Sheet: 5 of 10

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	Water
		Existing Fibre Cable	Sheath Gap Copper	FTN Access Node with GSM-R Colocated	Fibre Joint Routeworks	Tunnel	Earth Farm	Buffer Stop	Telephone	Cable Pull
		Existing Copper Cable								Mast
		Existing Screen Cable								

Notes

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
B	19/11/12	As Built	RJT	JO	PH
A	22/08/12	Redrafted From 1144-EAGC-SLD-V1.1.dwg	SH	JW	CT

Contractor(s)

ndc consultants

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

Status: **As Built**

Scale(s): NTS

ELR & Mileage: BML1, ECR

Designed		Sign.		Date	
Drawn	Stephen Holder	Sign.		Date	22/08/2012
Checked	Joe Winter	Sign.		Date	22/08/2012
Approved	Chris Tappenden	Sign.		Date	22/08/2012
Project	FTN/GSM-R Project Stage 2 As Built				
Drawing Title	Shawford STN (1144) to Eastleigh Signal Centre (EAGC)				

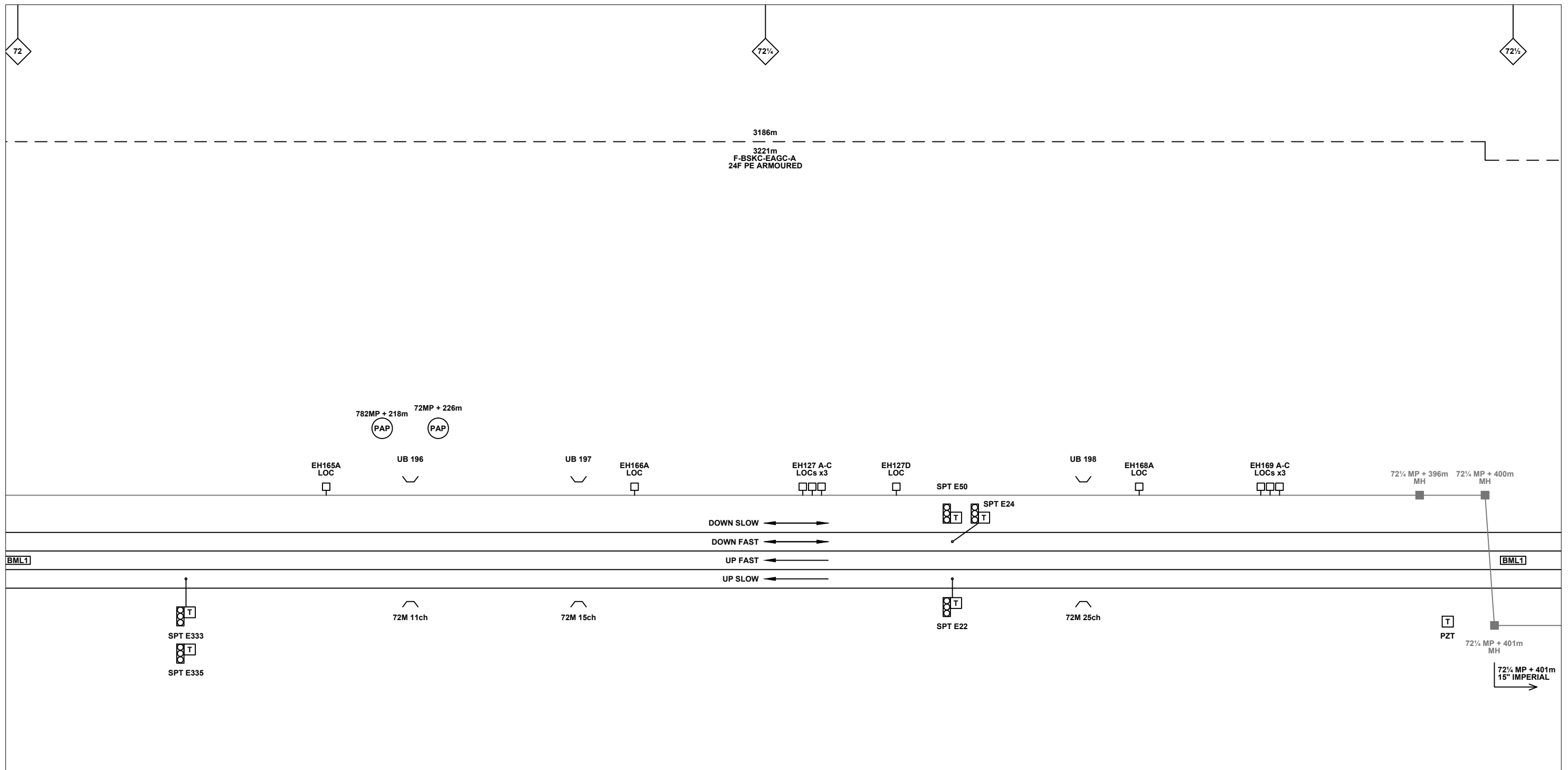
FTN/GSM-R Project
Tournament House
Paddington
London
W2 1HA

Alternative Reference: See Layout Tab 841 x 297 Sheet 3

Drawing Number: NTPO\SLD\1144\EAGC\001

Sheet: 6 of 10

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	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		All Existing Elements are shown in BLACK	Sheath Gap Copper	FTN Access Node with GSM-R Colocated	Fibre Joint Routeworks	Tunnel	Earth Farm	Telephone	v — v — 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	19/11/12	As Built	RJT	JO	PH
A	22/08/12	Redrafted From 1144-EAGC-SLD-V1.1.dwg	SH	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 BML1, ECR

Designed		Sign.		Date	
Drawn	Stephen Holder	Sign.		Date	22/08/2012
Checked	Joe Winter	Sign.		Date	22/08/2012
Approved	Chris Tappenden	Sign.		Date	22/08/2012
Project	FTN/GSM-R Project Stage 2 As Built				
Drawing Title	Shawford STN (1144) to Eastleigh Signal Centre (EAGC)				

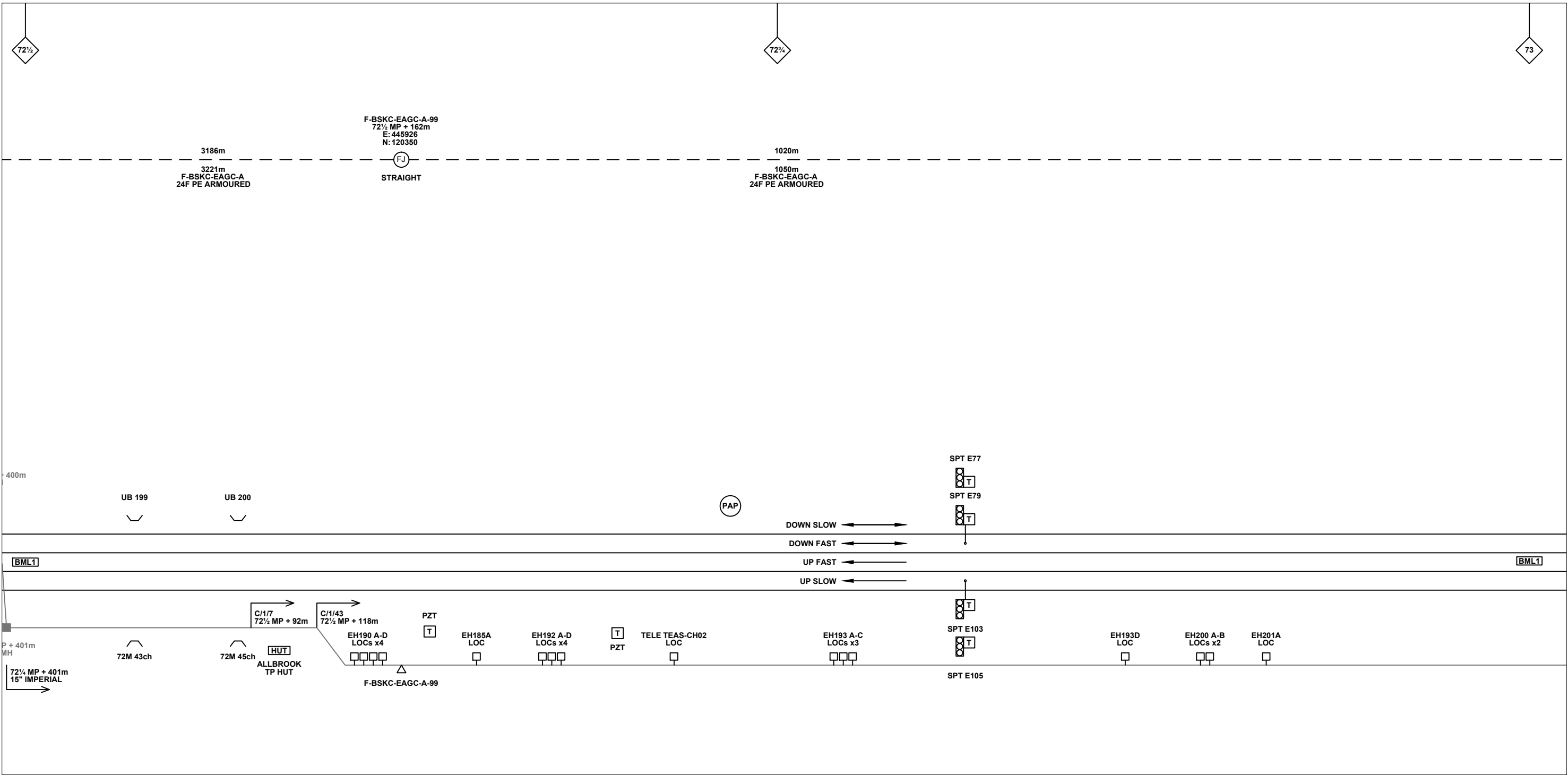
FTN/GSM-R Project
Tournament House
Paddington
London
W2 1HA

Alternative Reference: See Layout Tab 841 x 297 Sheet 4

Drawing Number: NTPO\SLD\1144\EAGC\001

Sheet: 7 of 10

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 — 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 — HV Cable	LV — LV — LV — LV 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	PAP Pedestrian Access Point	Platform	SEW — SEW — SEW — Sewer	TEL — TEL — TEL — 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	Telephone	v — v — v — 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	19/11/12	As Built	RJT	JO	PH
A	22/08/12	Redrafted From 1144-EAGC-SLD-V1.1.dwg	SH	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: BML1, ECR

Designed		Sign.		Date	
Drawn	Stephen Holder	Sign.		Date	22/08/2012
Checked	Joe Winter	Sign.		Date	22/08/2012
Approved	Chris Tappenden	Sign.		Date	22/08/2012
Project	FTN/GSM-R Project Stage 2 As Built				
Drawing Title	Shawford STN (1144) to Eastleigh Signal Centre (EAGC)				

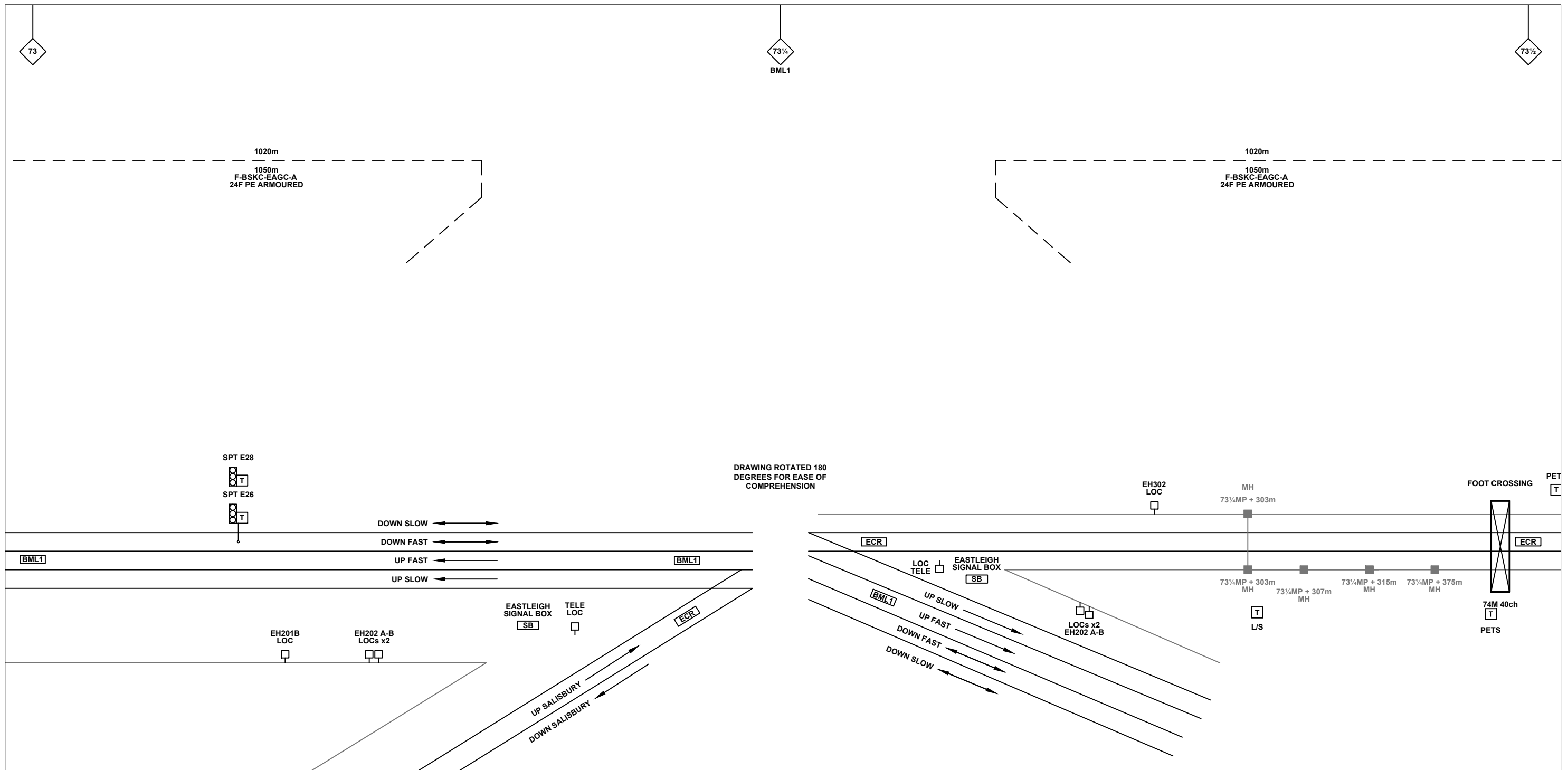
FTN/GSM-R Project
Tournament House
Paddington
London
W2 1HA

Alternative Reference: See Layout Tab 841 x 297 Sheet 4

Drawing Number: NTPO\SLD\1144\EAGC\001

Sheet: 8 of 10

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	Manhole	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	Cable Pull	Water	Mast

Notes

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
B	19/11/12	As Built	RJT	JO	PH
A	22/08/12	Redrafted From 1144-EAGC-SLD-V1.1.dwg	SH	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: BML1, ECR

Designed	Sign.	Date
Drawn	Stephen Holder	22/08/2012
Checked	Joe Winter	22/08/2012
Approved	Chris Tappenden	22/08/2012
Project: FTN/GSM-R Project Stage 2 As Built		
Drawing Title: Shawford STN (1144) to Eastleigh Signal Centre (EAGC)		

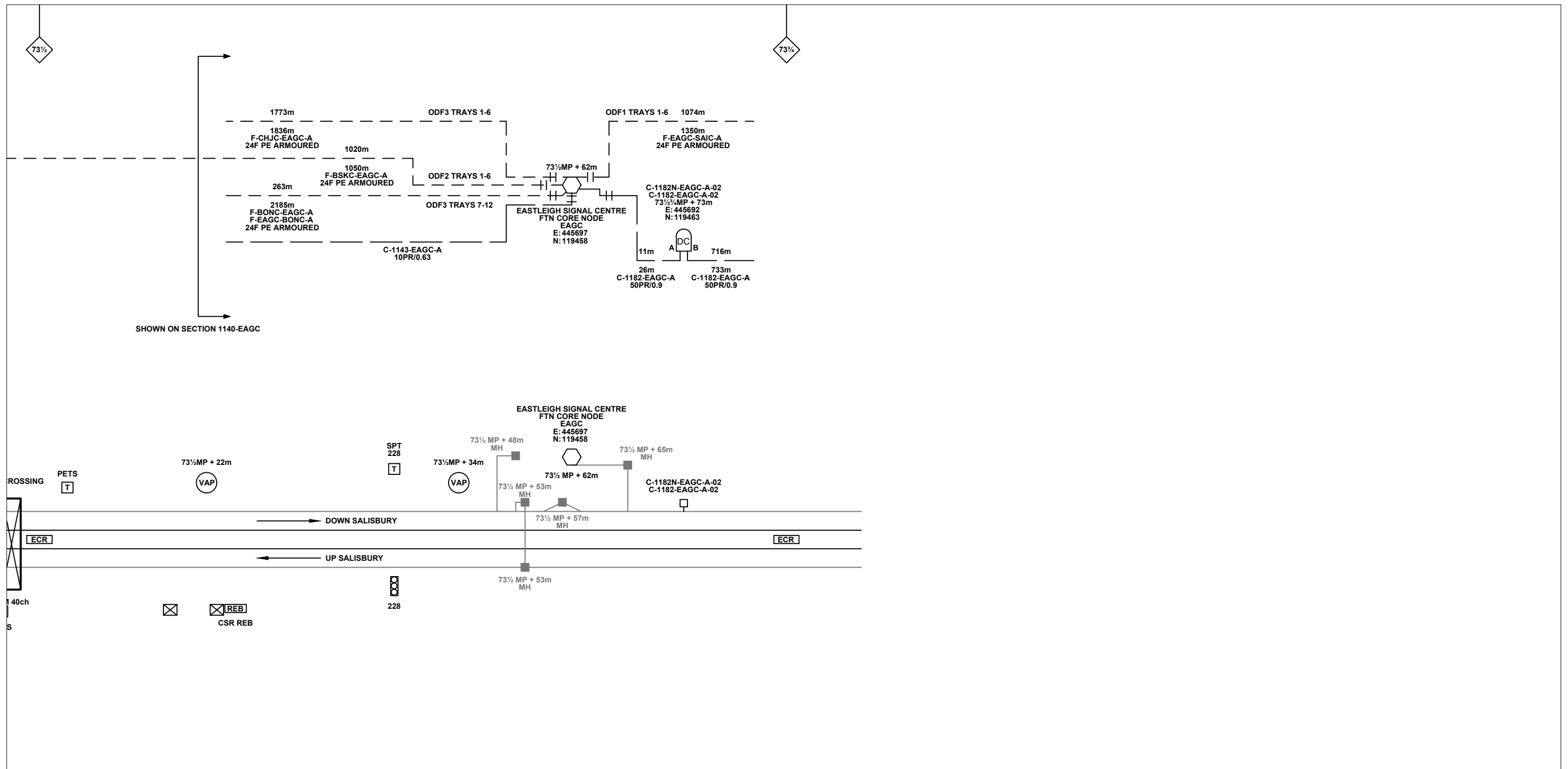
FTN/GSM-R Project
Tournament House
Paddington
London
W2 1HA

Alternative Reference: See Layout Tab 841 x 297 Sheet 5

Drawing Number: NTPO\SLD\1144\EAGC\001

Sheet: 9 of 10

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 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	PAP Access Point	Platform	SEW — SEW — Sewer	LV — LV — LV Cable
Proposed Fibre & Civils Elements are shown in RED				FTN Access Node with GSM-R Colocated	Fibre Joint Routeworks	Clear-Empty	Earth Farm	Buffer Stop	TEL — TEL — Telecoms	v — v — Water
Proposed Copper Elements are shown in BLUE								Telephone	Cable Pull	Mast
Proposed Screening Elements are shown in MAGENTA										
All Recoveries are shown in GREEN										

Notes		Contractor(s)		Designed		Sign.		Date		
		Kelly Integrated Transport Services Ltd		Drawn		Stephen Holder		Date 22/08/2012		
		ndc consultants		Checked		Joe Winter		Date 22/08/2012		
		Unit 4 Apex Park, Wainwright Road, Worcester, Worcestershire, WR4 9FN. Tel: 01905 756000		Approved		Chris Tappenden		Date 22/08/2012		
		Status		Project		FTN/GSM-R Project		FTN/GSM-R Project		Tournament House Paddington London W2 1HA
		As Built		Shawford STN (1144) to Eastleigh Signal Centre (EAGC)		Stage 2 As Built		Alternative Reference		
		Scale(s)		Drawing Title		See Layout Tab 841 x 297 Sheet 5		Sheet 10 of 10		
Rev		Date		Description of Revisions		Drawing Number		Revision		
B		19/11/12		As Built		NTPO\SLD\1144\EAGC\001		B		
A		22/08/12		Redrafted From 1144-EAGC-SLD-V1.1.dwg						
Rev		Date		Description of Revisions						