

## **RFI 000058**

### *Our Response*

1. What is the current status of this project on Bolton Councils Systems, (I.e complete, incomplete)

Incomplete

2. What is the current status of column 16 Chapeltown Road on your system? i.e. is a fault recorded?

Incomplete. An attempt has been made to provide an ENW Ltd connection to Column 16. An excavation of about 2.00m depth was attempted and was aborted once the existing ENW Ltd network cable was not located. There will be no fault recorded on the system, reason being there is no connection and it's not been commissioned.

2a Where a fault is recorded what details are recorded?

None, due to not being commissioned

3. Please provide the maintenance record for column 16 Chapeltown Road since Oct 2014.

None, due to not being commissioned

4. Please provide details of fault reports for column 16 Chapeltown Road since October 2014.

None, due to not being commissioned

5. Has the contractor/s responsible for installing/connecting/testing column 16 been paid for this work?

Payment has been paid for the column erect and the aborted dig only.

6. What is currently planned in relation to the completion of outstanding works, namely rectification of column 16 Chapeltown Road and removal of outstanding redundant columns?

In relation to Column 16 we will attempt to do a pre dig to resite the column across the road. Once resited, we will attempt to have the associated connection done.

In relation to the existing concrete columns, I'm awaiting clarification to have the columns cut and capped above the door entry.

7. What is the standard maintenance regime for Bolton Council Street-lighting installations (both LED and Discharge) i.e. how often are columns visited for inspections, what is inspected and how?

As reported back from our Maintenance Lighting Manager, Visual Inspections on every repair.

8. As the old columns were replaced having reached the end of their lifespan, and have yet remained in-situ for a further 4 years please provide details of inspections and risk assessments for this life extension along with maintenance records for the redundant columns since October 2013.

The Concrete columns that are Stanton And Stainton 10F's that was installed back in 1966 and are beyond their 40yr life profile which is the National norm for many Local Authorities to replace, but this manufacturer of concrete column is more sturdy with very little spalling. The fuses in the existing columns were removed and de-commissioned are removed from the Maintenance Records in 2013/14.

9. What work is currently planned to deal with the fault on column 16 Chapeltown Road and removal of the redundant columns and what timescales have been assigned?

There is currently no fault as the column is not commissioned or even connected. Please see question 6 for details of planned work.

In relation to the existing concrete columns, I'm awaiting clarification to have the columns cut and capped above the door entry and will aim for March 2018 to resolve the issues.

10. The earlier referenced FOI request response states "Once scheme is completed a final inspection is carried out by the Local Authority covering all aspects of the scheme in question" Please confirm that this inspection has taken place and provide a copy of the report, including details of who completed it (Job Title and employer -not personal details) and what exactly is inspected.

The Schemes Is Not completed but below is the inspection request of the area of concern.

Bolton Council Inspection & Test Certificate for electrical installations of Street Lighting / furniture & associated equipment															
Street Name	Chapeltown Road										Total No. of columns on street	31	Sheet No.	1/2	
Route No.	SL 4 No.										Test equipment serial No's 6111-749/051205				
Lighting Column, Sign, Bollard No.	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Earth System	TN-C-S	TN-C-S	TN-C-S	TN-C-S	TN-C-S	TN-C-S	TN-C-S	TN-C-S	TN-C-S	TN-C-S	TN-C-S	TN-C-S	TN-C-S	TN-C-S	TN-C-S
Circuit Protection															
BS 1361															
BS 88 (HRT fuses)															
BS 3036 (Removable)															
Amperes	6A	6A	6A	6A	6A	6A	6A	6A	6A	6A	6A	6A	6A	6A	6A
Conductor Size															
Phase	1.5mm	1.5mm	1.5mm	1.5mm	1.5mm	1.5mm	1.5mm	1.5mm	1.5mm	1.5mm	1.5mm	1.5mm	1.5mm	1.5mm	1.5mm
CPD															
Inspection															
Cut-Out															
Insulation															
Earth & Bonding															
Polarity															
Bonding															
Door (I)	0.02A	0.02A	0.02A	0.02A	0.02A	0.02A	0.02A	0.02A	0.02A	0.02A	0.02A	0.02A	0.02A	0.02A	0.02A
Chassis (I)	0.02A	0.02A	0.02A	0.02A	0.02A	0.02A	0.02A	0.02A	0.02A	0.02A	0.02A	0.02A	0.02A	0.02A	0.02A
Voltage	240V	240V	235V	235V	236V	236V	236V	236V	236V	239V	238V	235V	240V	239V	236V
Earth loop Imp at Supply (Zs)	0.22A	0.05A	0.11A	0.13	0.09A	0.25A	0.10A	0.08A	0.11A	0.10A	0.35A	0.11A	0.12A	0.08A	0.08A
Phase + Earth Imp (cable to Rp) (R1+R2)															
Total Earth Loop Imp Zs (Zs + R1 + R2 = Zs)															
Protective Short Circuit Current (measured)	1.06kA	3.9kA	2.1kA	1.9kA	2.7kA	0.88kA	2.4kA	2.4kA	2.1kA	2.1kA	0.66kA	2.1kA	1.9kA	2.7kA	2.7kA
Insulation Resistance															
Phase / Earth MD															
Neutral / Earth MD															
Phase / Neutral MD															
Pass															
Fail Rating															

Installation Type - existing/new (if other please specify) ..... On behalf of Bolton Council (if other please specify) .....

I / We as indicated below have to the best of my / our knowledge inspected & tested the above to the current IEE regulations

Name Ben Hogan Signature [Signature]

Position Electrician Date 11/12/15

(NOTE: ANY RECOMMENDATIONS P.T.O.)

IT12

The following questions do not relate to Chapeltown Road and are in relation to borough wide streetlighting.

10. I understand that the majority of the SON discharge street-lighting in the borough is fitted with CMS dimming controls. I understand this system controls the on off times of the lights and allows the council to dim these lights. I further understand that this system has the capability to allow the council to monitor the functionality of the lights fitted and record faults for actioning.

That Is Correct.

10A. Please confirm that Bolton Council have obtained this aspect of functionality?  
Where the answer to 10A above is YES,

See 10B.

10B Please confirm what faults this system detects, I,e, outages, dayburners etc

### **FAULTS**

#### Node UHF Communications Failed

Isn't talking to the system, this could be that there is a communications issue where the node is out of range of the collector. This could be a fault with the supply or fuse. It could also mean that there is a fault on the ballast and/or node. The column could be either day burning or out. It will need looking at on the system first then a site visit.

#### Ballast Timeout

The ballast isn't working properly, this could result in the light either being out or day burning. It will need a visit by maintenance to change the ballast.

#### Ballast strike fail shutdown

The lamp isn't striking up after the ballast has told it to. This needs a site visit by maintenance to test and change either the ballast or lamp.

#### Lamp strike failed

The lamp has either perished or is about to and needs the lamp changing.

#### Lamp aged lamp shutdown

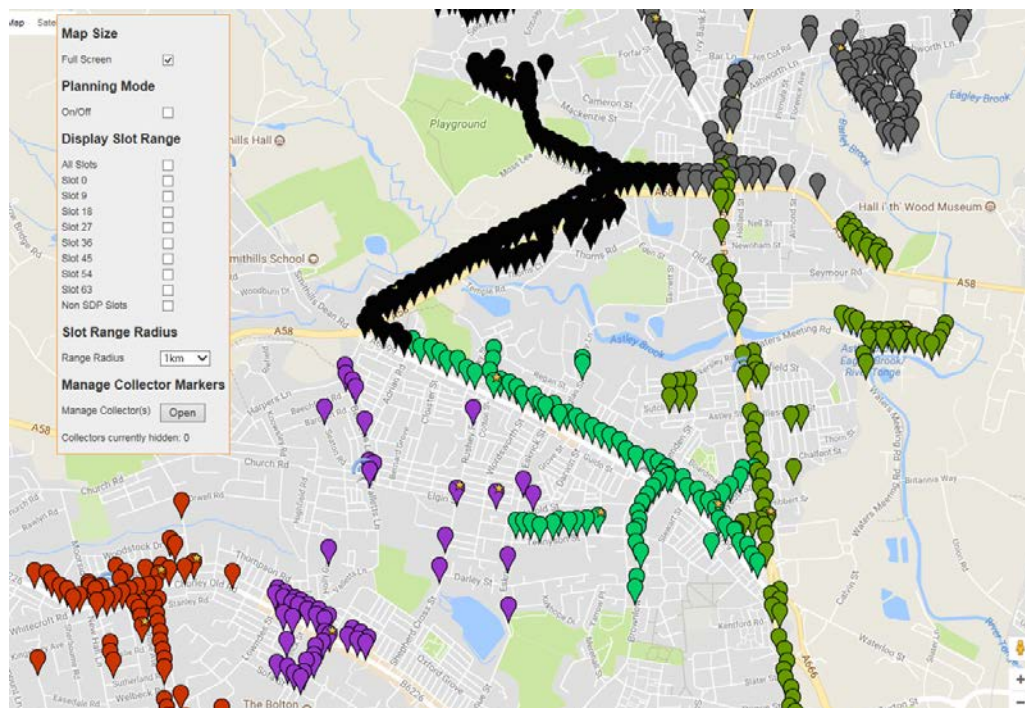
Requires a maintenance visit to change the lamp.

#### Ballast thermal shutdown

The ballast has overheated and shut itself down. It requires a maintenance visit to check it is fastened properly to its back plate, if it is then it needs the ballast changing.

10C Please confirm how often the fault detection is run/how often reports are generated?

Record faults for action is visible by aid of the CMS mapping system and excel reports being emailed providing a list of faults on the system every day and monitored by the councils CMS operative. At the same time any CMS works carried out and reported outages still comes through Streetcare as normal. All CMS outcomes are shared with the street lighting maintenance team's database and Streetcare staff that are taking any complaints associated to lighting.



(Colour Coded By Collector Ref)

10D Please supply a current list of faults including, but not limited to Lamp number, street, fault type, date fault first recorded.

This current sample is updated once a week. The 1st Date of Outage should be around 5 days before issue. Any further delays will be with the street lighting maintenance team workload at the time of submission.

ROUTE	STREET	COL	NOTES	ISSUED
00113	CHORLEY ST	16	ISSUED FOR TEST.	13.12.2017
00117	ST GEORGES RD	20	ISSUED FOR TEST	21.11.2017
00121	ST GEORGES ST	1	EARLY AM	15.08.2016
00121	ST GEORGES ST	2	EARLY AM	15.08.2016
00123	KAY ST	13	CHANGE FOR A VMAX V2 LED FITTING	09.11.2017
00126	DEANS GATE	8	CHANGE FOR A 64 LED	13.12.2017
00126	DEANS GATE	37	EARLY AM (64)	23.11.2016
00143	BRADSHAW GATE	3	PYRO FAULT	ISSUED
00143	BRADSHAW GATE	32	ISSUED FOR TEST.	04.12.2017
00148	TRINITY ST	21	EARLY AM	12.07.2016
00148	TRINITY ST	34	DEAD L/A SUPPLY	
00151	DERBY ST	11	EARLY AM	13.12.2017
00151	DERBY ST	48	EARLY AM	18.12.2017

00153	UNIVERSITY WAY	7		DAYBURN - ISSUED FOR TEST	31.08.2016
00153	UNIVERSITY WAY	18		ISSUED FOR TEST - RE-DO SHEET	06.10.2016
00159	MARSDEN RD	10	EARLY AM	CHANGE 250W BALLAST AND NODE	
00215	VICTORIA SQ	13 A		CHANGE 50W BALLAST ATTACHED TO NODE 16808785	17.08.2015
00401	BOLTON RD KEARSLEY	8		DAYBURN-ISSUE FOR TEST.	04.01.2018
00504	MANCHESTER RD KEARSLEY	27	EARLY AM	DAYBURN-ISSUED FOR TEST	06.04.2017
00702	CHURCH ST LITTLE LEVER	3		DEAD ENW - SENT 08/12/17	
00721	REDCAR RD LITTLE LEVER	16		ZERO BALLAST SN - CHANGE BALLAST	18.01.2017
00733	MYTHAM RD	4		CHANGE FOR A 64 LED	21.12.2017
01001	LONG LN	9		CHANGE FOR A 64 LED	21.12.2017
01001	LONG LN	41		CHANGE 250W LAMP	26.10.2017
01046	BRODICK DR	1		DAYBURNING VMAX-CHANGE FOR 64 LED	09.01.2018
01084	SOMERTON RD	32		CHANGE FOR A 64 LED	21.12.2017
01301	SMITHS RD	13	EARLY AM	ISSUED FOR TEST.	13.07.2017
01401	BRADFORD ST BOLTON	16		ISSUED FOR TEST (10.05.17)	02.01.2018
01404	CASTLE ST	26	EARLY AM	DAYBURN-ISSUED FOR TEST.	20.07.2017
01404	CASTLE ST	27	EARLY AM	DAYBURN-ISSUED FOR TEST.	20.07.2017
01404	CASTLE ST	31	EARLY AM	ISSUED FOR TEST	17.08.2017
01422	BURY NEW RD	17	EARLY AM	CHANGE LAMP	17.08.2017
01501	BURY RD	6		CHANGE FOR A 114 LED (11.12.17)	11.01.2018
01501	BURY RD	8		CHANGE 250W BALLAST & NODE	11.01.2018
01501	BURY RD	15		CHANGE 250W BALLAST (18.09.15)	09.01.2018
01501	BURY RD	64 A	EARLY AM	DAYBURN - ISSUE FOR TEST	02.02.2017
01646	STARKIE RD	6		CHANGE FOR 64 LED	05.01.2018
01646	STARKIE RD	7		(FAULT) CHANGE FOR 64 LED	05.01.2018
01685	CROMPTON WAY	148		DEAD L/A SUPPLY	09.01.2018
01709	CHARLES ST	1	EARLY AM	STRUCK BUT NO TEST - CHANGE BALLAST AND NODE	
01734	BK BLACKBURN RD EAST	3		ISSUED FOR TEST.	07.11.2017
01801	TONGE MOOR RD	14		ISSUE FOR TEST (07.08.16)	15.11.2017
01801	TONGE MOOR RD	15		CHANGE NODE	15.11.2017
01801	TONGE MOOR RD	24		DAYBURN - THERMAL REDUCTION (15.08.16)	15.11.2017
01801	TONGE MOOR RD	38		DAYBURN-CHANGE BALLAST AND NODE (21.08.17)	24/11/17
01801	TONGE MOOR RD	42	EARLY AM	ISSUED FOR TEST	29.11.2017
01801	TONGE MOOR RD	44		ORNATE LANTERN HAS BEEN REMOVED	29.11.2017

01801	TONGE MOOR RD	49 A	EARLY AM	CHANGE 250W BALLAST & NODE	02.08.201 6
01801	TONGE MOOR RD	51 A		CHANGE 250W LAMP	02.01.201 8
01801	TONGE MOOR RD	52	EARLY AM	STRIKES UP BUT NO TEST - CHANGE BALLAST AND NODE (25.1.17)	09.05.201 7
01801	TONGE MOOR RD	54	EARLY AM	DAYBURN -CHANGE BALLAST & NODE (07.08.16)	13.12.201 7
01801	TONGE MOOR RD	61		DAYBURN - CHANGE V2 & NODE	13.12.201 7
01918	TONGE HEAD AV	3		CHANGE FOR A 64 LED	21.12.201 7
01918	TONGE HEAD AV	4		CHANGE FOR A 64 LED	21.12.201 7
02005	LONGSIGHT	15	EARLY AM	ISSUED FOR TEST	05.10.201 6
02007	ARTHUR LN	6		CHANGE FOR A VMAX V2 LED FITTING	16.11.201 7
02501	BELMONT RD	15		CHANGE FOR A 114 LED	09.01.201 8
02602	HEATHERFIELD	5		CHANGE LAMP	27.09.201 7
02602	HEATHERFIELD	6		CHANGE BALLAST AND NODE	24.10.201 7
02602	HEATHERFIELD	7		CHANGE BALLAST AND NODE	24.10.201 7
02612	SELKIRK RD	2		CHANGE 140W LAMP	13.12.201 7
02714	SEYMOUR RD	13		CHANGE FOR A 64 LED.	22.12.201 7
02844	BK BLACKBANK ST	2		DAYBURN - CHANGE FOR A 64 LED	11.01.201 8
03000	HIGHER BRIDGE ST	6	EARLY AM	DAYBURN - ISSUED FOR TEST	28.09.201 6
03000	HIGHER BRIDGE ST	17		ISSUED FOR TEST.	13.12.201 7
03001	PRINCE ST	9		CHANGE 140W LAMP	04.01.201 8
03024	HALLIWELL RD	17	EARLY AM	DAYBURN & NO TEST. RETURN NODE & BALLAST, CHANGE FOR 114 LED & MAYFLOWER NODE	EARLY AM
03024	HALLIWELL RD	25		DAYBURN V2 - CHANGE NODE OR FITTING	11.01.201 8
03078	UNF PRINCE-GRANTHAM	1		CHANGE 45W LAMP.	16.11.201 5
03156	GASKELL ST	10		DAYBURNING-CHANGE BALLAST AND NODE	15.09.17
03252	TENNYSON ST	3		CHANGE FOR A 64 LED (29.11.17)	09.01.201 8
03753	MOSS BANK WAY	33		CHANGE FOR A 114 LED (26.07.17)	09.01.201 8
03753	MOSS BANK WAY	50		CHANGE FOR A 114 LED	09.01.201 8
03753	MOSS BANK WAY	56	TREE CUT REQ	ISSUED FOR TEST	11.09.201 7
03753	MOSS BANK WAY	64		TREES NEED CUTTING	24.10.201 6
03753	MOSS BANK WAY	86		CHANGE FOR VMAX V2	05.12.201 7
03753	MOSS BANK WAY	87		ISSUED FOR TEST	16.11.201 6
03753	MOSS BANK WAY	94		TREES NEED CUTTING - WHEN DONE CHANGE 250W BALLAST & NODE	
03753	MOSS BANK WAY	101		ISSUED FOR TEST	16.11.201 6
03753	MOSS BANK WAY	191		FUSED. STRUCK BUT NO TEST. CHANGE BOTH 250W BALLAST + NODE.	

04001	CHORLEY NEW RD HEATON	76	TREE CUT REQ	ISSUED FOR TEST.	10.05.2017
04011	GILNOW RD	20		CHANGE 150W BALLAST	01.11.2017
04201	CHORLEY OLD RD BOLTON	73		CHANGE FOR A 114 LED	09.01.2018
04201	CHORLEY OLD RD BOLTON	92	EARLY AM	DAYBURN-ISSUE FOR TEST.	03.05.2017
04201	CHORLEY OLD RD BOLTON	120	EARLY AM	TREE CUT REQ - CHANGE FOR 114 LED & MAYFLOWER NODE	19.05.2016
04218	MORNINGTON RD	20	EARLY AM	ISSUED FOR TEST	21.11.2016
04345	STAPLETON AV	13		CHANGE 150W BALLAST & NODE	04.01.2018
04346	VICTORIA RD BOLTON	9		ENW CHANGED CUT OUT - CHANGE FOR A VMAX V1	16.01.2018
04408	BROADFORD RD	19		CHANGE FOR A 64 LED	21.12.2017
04716	DE HAVILLAND WAY	9	EARLY AM	ISSUED (NO COMMS)	23.06.2016
04716	DE HAVILLAND WAY	15	EARLY AM	ISSUED (NO COMMS)	23.06.2016
04716	DE HAVILLAND WAY	25	EARLY AM	ISSUED (NO COMMS)	23.06.2016
04716	DE HAVILLAND WAY	29	EARLY AM	ISSUED (NO COMMS)	23.06.2016
04716	DE HAVILLAND WAY	50	EARLY AM	ISSUED (NO COMMS)	23.06.2016
04716	DE HAVILLAND WAY	71	EARLY AM	ISSUED (NO COMMS)	23.06.2016
04716	DE HAVILLAND WAY	94	EARLY AM	ISSUED (NO COMMS)	23.06.2016
04716	DE HAVILLAND WAY	96	EARLY AM	ISSUED (NO COMMS)	23.06.2016
04716	DE HAVILLAND WAY	114	EARLY AM	ISSUED (NO COMMS)	23.06.2016
04716	DE HAVILLAND WAY	121	EARLY AM	ISSUED (NO COMMS)	23.06.2016
03753	MOSS BANK WAY	161		CHANGE FOR A VMAX V2 LED	11.01.2018
03753	MOSS BANK WAY	169		CHANGE FOR A VMAX V2 LED	11.01.2018
03753	MOSS BANK WAY	201		CHANGE FOR A VMAX V2 LED (09.02.16)	11.01.2018
04702	FALL BIRCH RD	5		CHANGE 60W LAMP	11.01.2018
04702	FALL BIRCH RD	12		CHANGE 60W LAMP	11.01.2018
04721	MANSELL WAY	7	EARLY AM	DAYBURN - ISSUE FOR TEST	
04721	MANSELL WAY	21	EARLY AM	DAYBURN - ISSUE FOR TEST	
04721	MANSELL WAY	56	EARLY AM	ISSUE FOR TEST	
04723	BURNDEN WAY HORWICH	7		CHANGE FOR VMAX V2	12.01.2018
04723	BURNDEN WAY HORWICH	15		CHANGE FOR VMAX V2	12.01.2018
04723	BURNDEN WAY HORWICH	17		CHANGE FOR VMAX V2	12.01.2018
04723	BURNDEN WAY HORWICH	23		DAYBURN - CHANGE FOR VMAX V2	05.01.2018
04723	BURNDEN WAY HORWICH	25		DAYBURN - CHANGE FOR VMAX V2	05.01.2018
04723	BURNDEN WAY HORWICH	26		CHANGE FOR VMAX V2	12.01.2018

04723	BURNDEN WAY HORWICH	27		CHANGE FOR VMAX V2	12.01.2018
04723	BURNDEN WAY HORWICH	28		CHANGE FOR VMAX V2	12.01.2018
04724	ARENA APPROACH HORWICH	4		OUTAGE - CHANGE FOR VMAX V2	05.01.2018
04724	ARENA APPROACH HORWICH	10		OUTAGE - CHANGE FOR VMAX V2	05.01.2018
04724	ARENA APPROACH HORWICH	11		OUTAGE - CHANGE FOR VMAX V2	05.01.2018
04805	AUSTINS LN	5		CHANGE FOR A 64 LED	09.01.2018
04877	UNF SEFTON LN-MANSELL WAY	6		CHANGE FOR AN LED	
04901	CHORLEY NEW RD HORWICH	13	EARLY AM	ISSUED FOR TEST	01.06.2016
04901	CHORLEY NEW RD HORWICH	19	EARLY AM	STRUCK BUT NO TEST. CHANGE 250W BALLAST & NODE	18.01.2016
04901	CHORLEY NEW RD HORWICH	23		DAYBURN-ISSUE FOR TEST.	08.12.2017
04901	CHORLEY NEW RD HORWICH	59	EARLY AM	DAYBURN - ISSUED FOR TEST	05.04.2017
04901	CHORLEY NEW RD HORWICH	70	EARLY AM	ISSUED FOR TEST	01.06.2016
04901	CHORLEY NEW RD HORWICH	85	EARLY AM	STRUCK BUT NO TEST. CHANGE FOR 114 LED & MAYFLOWER NODE	18.01.2016
04901	CHORLEY NEW RD HORWICH	110	EARLY AM	DAYBURN - ISSUED FOR TEST	
04901	CHORLEY NEW RD HORWICH	113	EARLY AM	DAYBURN - ISSUED FOR TEST	
04901	CHORLEY NEW RD HORWICH	115	EARLY AM+ TREE CUT	ISSUED FOR TEST	22.02.2017
04996	CHORLEY OLD RD HORWICH	43		ISSUED FOR TEST (COMMS ISSUE ALSO)	05.03.2016
05121	WINTER HEY LN	8	EARLY AM	ISSUED FOR TEST (16.09.17)	22.12.2017
05140	MARSH ST HORWICH	4		LAMP FAILED - CHANGE FOR 64 LED	02.01.2018
05201	MANCHESTER RD BLACKROD	7		CHANGE FOR A 114 LED	09.01.2018
05201	MANCHESTER RD BLACKROD	19		CHANGE FOR A 64 LED	09.01.2018
05216	HILL LN BLACKROD	2		CHANGE 140W LAMP	02.01.2018
05216	HILL LN BLACKROD	7		CHANGE LAMP	18.01.2017
05226	CHORLEY RD BLACKROD	3	EARLY AM	CHANGE LAMP	08.11.2016
05246	BIG FOLD BLACKROD	1		DEAD ENW - REISSUED 25.10.16	25.10.2016
05246	BIG FOLD BLACKROD	2		DEAD ENW - REISSUED 25.10.16	25.10.2016
05301	CHORLEY RD W.TON	25 A		CHANGE FOR A 114 LED	12.01.2018
05301	CHORLEY RD W.TON	28 A		CHANGE FOR A 114 LED	12.01.2018
05301	CHORLEY RD W.TON	83 A	EARLY AM	17302889 CHANGE THIS NODE AND BALLAST	01.06.2016
05400	MANCHESTER RD A6 WTON	3	EARLY AM	DAYBURN - ISSUED FOR TEST	14.02.2017
05400	MANCHESTER RD A6 WTON	70	EARLY AM	CHANGE BALLAST AND NDOE	
05402	BOLTON RD W.TON	24		DAYBURN - CHANGE FOR A 114 LED	15.01.2018
05409	CHURCH ST W.TON	31		(LAMP) CHANGE FOR 114 LED	05.01.2018

05474	CEMETERY ST W.TON	1		DAYBURN-CHANGE 60W BALLAST & NODE (01.12.17)	13.12.2017
05619	WEARISH LN W.TON	1	EARLY AM	ISSUED FOR TEST	05.01.2017
05701	PARK RD W.TON	17	EARLY AM	ISSUED FOR TEST	
05701	PARK RD W.TON	50		CHANGE FOR V2 (08.12.17)	18.12.2017
05740	LEIGH RD W.TON	32	EARLY AM	DAYBURN - ISSUE FOR TEST	
05740	LEIGH RD W.TON	41	EARLY AM	OUTAGE-ISSUE FOR TEST.	22.06.2017
05743	HARTFORD RD W.TON	18	EARLY AM	CHANGE 150W BALLAST	12.12.2016
05771	CRICKETERS WAY	19		BALLAST/LAMP FAULT - CHANGE FOR VMAX V2	04.12.2017
06020	GIBRALTAR ST	14		CHANGE LAMP	
06020	GIBRALTAR ST	14		CHANGE FOR A 64 LED (31.01.17)	09.01.2018
06028	MAYOR ST	12		DAYBURN - CHANGE FOR A A 114 LED	09.01.2018
06118	WIGAN RD BOLTON	7		DAYBURN CHANGE BOTH BALLAST AND NODE	06.10.2016
06118	WIGAN RD BOLTON	20		ISSUED FOR TEST.	02.01.2018
06118	WIGAN RD BOLTON	73		DAYBURN - CHANGE FOR VMAX V2	15.01.2018
06168	SNYDLE WAY	12	EARLY AM	CHANGE 250W BALLAST NODE LAMP	11.08.2016
06168	SNYDLE WAY	19	EARLY AM	CHANGE 250W BALLAST NODE LAMP	11.08.2016
06168	SNYDLE WAY	68	EARLY AM	CHANGE 250W BALLAST NODE LAMP	
06527	WILLOWS LN	14		CHANGE FOR A 64 LED	12.01.2018
06801	MANCHESTER RD BOLTON	10	EARLY AM	OUTAGE-ISSUE FOR TEST	
06801	MANCHESTER RD BOLTON	13	EARLY AM	DAYBURN - ISSUED FOR TEST	14.02.2017
06801	MANCHESTER RD BOLTON	27		CHANGE 250W BALLAST	14.02.2017
06801	MANCHESTER RD BOLTON	78	EARLY AM	ISSUED FOR TEST	
06801	MANCHESTER RD BOLTON	79	EARLY AM	DAYBURN-CHANGE BALLAST NODE LAMP	01.12.16
06801	MANCHESTER RD BOLTON	80	EARLY AM	DAYBURN-CHANGE BALLAST NODE LAMP	01.12.16
06820	CRESCENT RD	21		CHANGE FOR A VMAX V2	
06829	RAIKES LN	1A	EARLY AM	DAYBURN - CHANGE NODE	
06937	BRADFORD RD	5		CHANGE FOR A VMAX V2	
07051	VERNHAM WK	3		ISSUED FOR TEST	22.09.2017
07051	VERNHAM WK	4		ISSUED FOR TEST	22.09.2017
07132	LEVER EDGE LN	23		DAYBURN-ISSUE FOR TEST.	04.01.2018
07347	ST HELENS RD	4	EARLY AM	CHANGE BALLAST AND NODE	12.12.2016
07347	ST HELENS RD	6		CHANGE BALLAST & NODE (05.06.15)	13.12.2017
07514	HULTON VALE	2		CANT FIND FAULT WITH IT POSSIBLE ENW SUPPLY FAULT NEEDS TESTING	
07614	EMLYN ST FARNWORTH	5	EARLY AM	ISSUED FOR TEST	08.02.2017

08138	LONGCAUSEWAY FARNWORTH	15		CHANGE FAULTY VMAX V2 LED AND NODE	09.01.2018
08240	HIGHER MARKET ST FARNWORTH	13		DAYBURN-CHANGE FOR LED	04.01.2018
08301	LUCAS RD FARNWORTH	1+2		COMMS ISSUES - CHANGE FOR 64 LEDS	02.01.2018
08301	LUCAS RD FARNWORTH	3		CHANGE FOR 64 LED	02.01.2018
08318	GEORGE ST FARNWORTH	1	EARLY AM	DAUBURN - CHANGE BALLAST AND NODE-12.06.17	13.07.2017
08318	GEORGE ST FARNWORTH	6	EARLY AM	DAUBURN - CHANGE BALLAST AND NODE-12.06.17	13.07.2017
08402	PLODDER LN FARNWORTH	7	EARLY AM	DAYBURN-ISSUED FOR TEST	24.03.2017
08421	LABURNUM RD FARNWORTH	7		DAYBURN (22.12.15) CHANGE FOR A 114 LED	09.01.2018
08546	WILDMAN LN FARNWORTH	2		CHANGE FOR 64 LED	02.01.2018
08613	SILVERDALE RD FARNWORTH	1A	EARLY AM	ISSUED FOR TEST	08.09.2016
08635	BRADFORD RD FARNWORTH	6		DAYBURN-CHANGE BALLAST AND NODE (12.12.17)	19.12.2017
19903	ACADEMY WAY	8		CHANGE 140W LAMP	05.01.2018
19910	HARRIER CL HORWICH	6		NO SUPPLY (IDNO)	